J. A. Albricht No. 7842 Well

Legan District, Legan County, N. Va.

by Hope Natural Gas Company, Clarksburg, W. Va.

Located 2.08 mi. W. of 81°50° and 4.4 mi. S. of 38°00° -EC- Logan Quadrangle; 2.5 mi. W. of Mifflen and 0.6 mi. S. of Isom.

Elevation, 1485' L.

Percet Log-59.

Drilling commenced June 24, 1939; completed, Acquet 13, 1959

Shot August 17, 1039 at 2764-2786'.

Gas well; volume 586,000 cu. ft. per day.

Fresh water at 255; salt water at 1285, 1390-1396'.

10" casing, 18'; 82", 1022'; 6-5/8", 2121'. Ossing not comented.

Coal was encountered at 80-82; 355-358', 497-502', 585-587', and 205-205'.

Top	Bottom	Thickness	Pottsville Formation, 1595 feet
0	20	20	Sandstone, brown, fine
50	50	30	Sandstone, light yellowish gray, medium-grained; contains
			small amount of mica
50	70	20	Shale and siltatone, gray, with some siderite
70-	80	10	Sandstone, gray, fine, micaceous
80	82	2	Coal
82	80	8	Sandstone, gray, fine, micaecous
90	140	50	Sandstone, light-gray, medium-grained; mostly broken
			into individual grains; contains small amounts of
			mica, chlorite and kaolin
140	155	16	Shale, gray, with large emount of gray siltstone
155	250	75	Sandstone, light-gray, fine-to meditm-grained; contains
			small amounts of muscovite, biotite, chlorite and
			carbonaceous material; some samples are yellowish
			from partly altered siderite, and some are greenish
			from chlorite (scal reported at 203 to 205)
250	236	6	No sample
236	240	4	Shale, gray
240	270	30	Sandstone, yellowish-gray, highly calcareous; contains
			some iron carbonate and some mica
270	380	50	Sandstone, light-gray, fine-to medium-grained; contains
			mica and chlorite, thin streaks of carbonaceous material

and a little siderite

Top	Po ttam	Thiomess	
320	360	80	Siltatone, gray, micaescus
560	360	10	Sandstone, gray, very fine (coal reported at 355 to 358)
360	870	70	Shale, derb-gray; silty
570	380	10	Siltstone, darb-gray, micaceous
3 80	415	85	Sandstone, gray, very fine, micaceous; contains thin
			etreaks of carbonaceous matter
418	450	35	Shale, gray, silty, micaceous
450	497	47	Sandatone, gray, fine, micacecua; contains a little
			siderite and carbonaceous matter
497	502	5	Coal
502	585	85	Sendstone, light-gray to nearly white, mostly fine,
			elightly calcareous
585	687	2	Cosl
587	620	33	Shale, gray very silty, micaceous; most of this could
			just as well be called siltatons
620	670	50	Sandstone, very light-gray, fine; contains a little mice
	•		and kaolin
670	690	20	Siltstone, dark-gray, shaly micaceous
690	719	29	Sandstons, gray, very fine, micacecus; contains thin
			carbonaceous streaks
719	735	16	Sandstone, gray, fine, with darker shaly streaks
735	770	35	Shale, very dark gray, silty, micaceous
770	790	20	Siltstone, black, micaceous
790	870	80	Shale, dark-gray to bloom mostly silty and micaceous
870	900	50	Sandstone, nearly white, fine, broken small; contains a
			little mice and oblirite
900	916	16	Sendstone, light-gray, fine, with darker, shaly streaks
916	930	14	Shale, dark-gray 60%; nearly white, medium-grained
			sandstone, 40%
930	960	50	Sandstone, light-gray, medium-grained; contains small
			amounts of mica, chlorite and clayey material
960	1120	160	Sandstone, nearly white, medium-to fine-grained; samples
			have some yellow rust stain
1120	1140	20	Siltatone, gray, shaly, with some light-gray sandstone
1140	1255	95	Shale, derk-gray, micacecus; has considerable proportion
			of eilty material

Top	Dottom	Thickness	
1255	1845	10	Sendstone, light-gray, very fine, 60%; dark-gray shaly
			siltstone, 40%
1845	1874	129	Sandstone, nearly, white, medium- to fine-grained, nearly
			all quarts; all samples have some vollow to brown stain
			from rust from drill steel (salt water at 1283)
1374	1417	48	Sandstone, nearly white, coarse, nearly all quarts, much
			of quarts has crystal faces; there is a small enount of
			rust-stain (salt water at 1390 to 1396)
1417	1570	155	Sandstone, light-gray nearly white, with small amount of
			rust-stain throughout; mostly medium-grained but rather
			poorly sorted, with coarse grains in some samples
1570	1695	25	Shale, gray, silty
			Hauch Chunk Group, 458 feet
1698	1635	40	Limestone, light-brown, fine-textured; from 1595 to 1605
			samples contain some gray shale and from 1605 to 1635
			they contain 20 to 50 percent of red and green shale
1635	1692	57	Shale, red, soft, calcareous; small amounts of green shale
			throughout
1692	1732	40	Siltatone, grayish-green, slightly calcareous, micaceous
1732	1757	5	Siltetone, grayish-green, 30%, light-brown dolonite, 20%
1737	1741	4.	Dolomite, brown, 50%; red shale 80%; green siltstone, 20%
1741	1770	29	Siltatone, gray to grayish-green, dolomitic; samples also
			contain considerable gray and some red shale
1770	1790	20	Shale, gray, calcareous and fossiliferous
1790	1797	7	Shale, red, coft, calcareous
1797	1807	10	Clay, gray, with modules of pyrite and of ferruginous
			limestone (this sample contains more of the red shale
			which is above and below, so I suspect it is incorrectly
***	5	_	labelled)
1807	1815	8	Shale, red, slightly calcareous
1815	1820	5	Sandstone, white, very fine, elightly calcareous; with
***	***		considerable gray and a little red shale
1820	1825	5	Shale, gray, calcareous, not much laminated
1025	1832	7	Clay, gray, with large amount of pyrite modules and some
			ferruginous probably delemitic limestone (this sample is
***	***	_	like the one labelled 1797 to 1807)
1852	1840	3	Shale, red, 80%; green shale and delemitic siltstone, 20%

Top	Pottom	Thickness	
1840	1845	5	Siltatone, light-green, slightly calcareous
1845	1872	27	Shale, red, somewhat dolomitic
1872	1880	8	Shale, gray and grayish red, 60%; gray and yellow, slightly
			calcarsous, siltstone, 40%
1880	1885	5	Shale, red, dolemitic
1885	1900	15	Siltstone, gray, 50%; red and gray shale 50%; some fragments
			are dolomitic
1900	1940	40	Shale, gray; strongly calcareous from 1910 to 1920, the
			rest only slightly so, with carbonate apparently delouite
			rather than calcite; considerable yellow material in
			sample from 1930 to 1935
1940	1960	20	Siltstone, light-gray, 80%; darker gray shale, 20%
1960	1970	10	Siltstone, light-gray, 60%; darker gray shale, 20%
1970	1996	26	Sandstone, very light gray, with some rust-stain; fine to
			very fine
1996	2008	9	Limestone, gray, silty
2005	2063	48	Limestone, dark brownish gray (Little Lime); two samples
			covering interval 2040 to 2083 contain some fine-textured
			gray shale and much highly calcareous siltstone; this
			may correspond to "Pencil Cave."
			Greenbrier Limetone, 204 feet
2053	2065	12	Limestone, gray to somewhat brownish, lighter than the
			limestone above
2065	2087	22	Limestone, dark brownish gray
2087	2190	85	Messtone, light-gray (lighter than next interval above)
	#5 2 2 2 2 2 2		some very fine sand from 2154 to 2180
2170	2175	5	Limestone, gray, sandy, colitic (only moderate ascumt of
60 mm			colites)
2175	2205		Limestone, light-gray, somewhat sandy (gas at 2181)
2205	2225	20	Limestone, light-gray, with a few spots of red; contains
			moderate amount of sand from medium-grained to very fine;
			larger grains are rounded; there are a few rather indistinct
2225	9800	# 6	oolites (gas at 2225)
な心をひ	2257	32	imbatone, light-gray, somewhat dolomitio; contains only
			a very little sand (one at 2236)

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Top	to a com	Thickness

2825

Total depth

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			Macerady Formation, 68 feet
2257	2320	83	Siltatone, red, soft, shaly (gas at 2266)
			Pocono Formation, 46% feet
2520	2406	85	Shale, gray, silty, micaceous mixed with about equal parts
			of somewhat lighter gray siltstone and very fine sandstone
			(gas at 2369)
2406	2647	42	Siltetone, light-gray, 60 to 80%; somewhat darker gray
			shale 40 to 20%
2447	2745	298	Shale, gray, micaceous, with varying amounts of gray to
			greenish siltatone and very fine sandstone; most samples
			are at least 70% shale and only two or three have as
			much as 50% of siltstone and sandstone; there are only
	•	•	a few scattered pieces of caloareous material; there are
			a few flakes of biotite in the siltatone and silty
		·	portion of the shale (gas at 2595 and 2612 to 2620)
2745	2756	11	Shale, very dark gray, some almost black; contains
			considerable pyrite, both finely disseminated and in
			small spherical concretions
2756	2759	8	Sandstone, dark-gray, very fine; contains much pyrite,
			which helps to account for the derk color, but there
			are also many black specks which are possibly a solid
			oil residus (Berea Sandstons, 2756 to 2788)
2759	2765	4	Sandstone, gray, fine; similar to last but a little
			lighter and coarser (Gas, 2756 to 2788)
2763	2756	25	Sendstone, light-gray, fine to very fine; contains small
			emount of dolomite; samples from last 6 feet are broken
			finer than the rest
			Devonian Shales, 37+ feet
2788	2825	37	Shale, gray, somewhat silty