CA1-549

C. W. Harris No. 8503 Well

Sherman District, Calhoun County, W. Va.

By Hope Matural Gas Company, Clarksburg, W. Va.

Located 3.5 mi. W. of 81°00° and 0.25 mi. S. of 38°55° -EC- Arnoldsburg Quadrangle; 2 mi. S. E. of Grantsville.

Elevation, 981' L.

Permit Cal-549.

Drilling commenced Oct. 21, 1940; completed Dec. 10, 1940. Shot Dec. 11, 1940 - depth, 2048-2077'. Volume, 63,399 cu. ft.

Salt water 1110 and 1870'.

No coal recorded.

10" casing 290'; 84", 1064'; 6-5/8", 1967'.

Section based on samples from 0 to 2156*, examined by C. Apsouri. According to geologic map well starts about 60 feet above base of Dunkard, near 1050 foot contour on Washington Coal.

Тор		Thickness	Pennsylvanian, 1866+ feet
0	10	10	Shale and sandstone, yellow
10	25	15	Siltstone, green
25	47	22	Shale, red
47	62	15	Siltstone, green, sandy
62	82	20	Sandstone, green, very fine, 50%; gray shale and siltstone, 50%
82	87	5	Sandstone, yellowish-green, very fine
87	119	32	Shale, red, soft
119	150	31	Shale, red, soft, 60%; green siltstone, 40%
150	178	28	Siltstone, very light gray, sandy toward bottom
178	193	15	Siltstone, green
193	220	27	Shale, red
220	240	20	Sandstone, green, very fine, silty, 80%; green shale, 20%
240	245	5	Sandstone, white, very fine
245	280	35	Sandstone, white, coarse
280	314	3 🗱	Siltstone, green
314	52 0	6	Sandstone, green, very fine
320	345	25	Sandstone, white, medium- to coarse-grained

	Top	Bottom	Thickness	
	345	381	36	Siltstone, green
	381	388	7	Sandstone, white to greenish, medium-grained; contains siderite
				spherulites
	388	416	28	Sandstone, white, coarse
	416	443	27	Siltstone, green, 60%; red shale, 40%
	443	450	7	Sandstone, white, medium-grained
	450	457	7	Shale, red and green
	457	479	22	Shale, red and green
	479	506	27	Siltstone, green
٠	506	5 18	12	Sandstone, green, very fine
	518	524	G	Siltstone, green
	524	548	24	Sandstone, white, fine
	548	555	7	Shale, red
	555	578	23	Siltstone, green
	5 78	612	84	Shale, red, soft
	612	624	12	Sandstone, light-green, very fine, silty
	624	690	66	Shale, red, soft; up to 40% of green siltstone in some samples
	6 90	700	10	Sendstone, white, medium-grained
	700	710	10	Shale, red, soft
	710	715	5	Sandstone, white, medium-grained
	715	720	5	Sandstone, white, 50%; red shale, 50%
	720	740	20	Siltstone, green
	740	745	5	Shale, green
	745	759	14	Sandstone, white to green, very fine, silty, with siderite
				spherulites
	759	772	13	Shale, white, soft
	772	785	13	Siltstone, grayish-green, sandy
	785	797	12	Shale, green
	797	803	6	Shale, green, 50%; red shale, 50%; a few fragments of coal
	803	584	21	Sandstone, white, very fine, with siderite spherulites; alea
	8 24	833	9	Shale, very light gray, soft, with siderite spherulites
	833	845	12	Sandstone, white, very fine
	845	851	6	Siltstone, green, sandy
	851	857	6	Shale, green, with some yellow and red

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Top	Bottom	Thickness	
857	864	7	Shale, nearly white
864	889	25	Siltstone, green
889	907	18	Shale, red, 60%; green clay or shale, 30% clay white, of
		•	flinty appearance, with conchoidal fracture; some of green
			clay also is flinty and translucent
907	925	6	Sandstone, green, very fine, 80%; shale, red, 20%
915	919	6	No sample
919	925	6	Shale, black, pyritic
925	931	6	Sandstone, greenish, fine
951	943	- 10 -	Sandstone, greenish, fine, 60 *********** siltstone, gray, 40 ***
943	949	G	Shale, block, Silvy
949	955	6	Siltstone, dark-brown to dark-gray, fossiliferous
955	961	E	Sandstone, white, fine- to medium-grained, 50%; greenish
			shale and siltstone, 50%
961	992	51	Shale, mostly green
992	998	6	Shale, brown, calcareous; white very fine sandstone, 20%;
			green shale, 30%
998	1010	12	Sandstone, white, fine
101 0	1028	18	Siltstone and shale, gray to greenish
1028	1048	20	Sandstone, green, very fine, 60%; green shale, 40%
1048	1067	19	Shale, greenish-gray
1067	1074	7	Shale, very light brown to brownish-gray, partly calcareous
1074	1081	7	Shale, greenish
1081	1135	54	Sandstone, white, medium- to coarse-grained
1136	1142	7	Siltstone, dark-gray, 70%; gray shale, 30%
1142	1160	18	Siltstone, dark-gray; a few fragments of coal
1160	1320	160	Sandstone, white, medium- to coarse-grained
1320	1328	8	Siltstone, dark-gray, with trace of coal
1328	1536	8	Sundstone, white, very fine, 85%; black shale and coal, 15%
1336	1357	21	Sandstone, white, fine
1357	1370	13	Sandstone, white, coarse
1870	1402	32	Siltstone, gray
1402	1408	8	Sandstone, white, medium-grained

%

Top	Bottom	Thi oknoss	
1408	1415	7	Sandstone, white, medium-grained, 60%; shale, black and brown
			with some coal, 40%
1415	1422	7	Siltstone, gray, carbonaseous, with siderite spherulites
1422	1461	29	Shale, gray, with varying amounts of white, very fine, sandston
14 6	1 1498	32	Siltatone, gray
1493	1522	29	Sandstone, white, fine
1522	1884	12	Sandstone, white, very fine, 60%; black shale, 40%
1534		25	Sandstone, nearly white, very fine, micaceous
1559 1584	158 4 1603	25 19	Sandstone, nearly white, very fine, micaceous Siltstone, gray
1603	1622	19	Sandstone, white very fine; and gray siltstone, both with
			siderite spherulites
1622	1630	8	Sandstone, white, coarse, 50%; gray, shaly siltstone, 50%
1630	1644	14	Sandstone, white, very fine, 50%; brown shale, 50%
1644	1715	71	Siltstone, dark-gray
1715	1783	68	Sandstone, nearly white, very fine, with considerable inter-
			bedded gray siltstone
1788	1819	36	Shale, gray, silty
1819	1860	31	Sandstone, white, fine; some coarse grains 1842-1850
1850	1855	5	Sandstone, white, fine- to medium-grained
1855	1866	11	ondstone, white, coarse
		3	seuch Chunk Group, 44 feet
1866	1875	9	Sandstone, white, fine, pyritic, 96%; green shale, 4%
1876	1880	8	Sandstone, white, fine, 75%; gray calcareous shale, 25%
1880	1900	20	Limestone, brown, fine-textured, dolomitic ("Little Lime")
1900	1905	5	Sandstone, white, fine, calcareous
1905	1910	5	Sandstone, light-green, fine, 70%; soft green shale, 30%
			Greenbrier Limestone, 188 feet
1910	1920	10	Limestone, brownish, dolomitic, 95%; green shale, 5%
1920	1960	40	Limestone, very light brown, sandy
1960	1972	12	Limestone, brown, sandy
1972	1979	7	Sandstone, white, coarse, highly calcareous
1979	1985	6	Limestone, nearly white, dolomitio; sandy, 1985-1995
1985	2012	27	Linestone, nearly white, sandy

Top	Bottom	Thickness	
2012	2025	18	Sandstone, white, medium-grained, calcareous
2025	2045	50	No samples
2045	2098	53	Limestone, white, sandy, dolomitic
			Posone Formation, 40+ feet
2098	2136	88	Shale, gray
	2138		Total depth

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