HOPE NATURAL GAS COMPANY #8552 Clarksburg, W. Va.

Federal Coal Company

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Sherman District, Boone County, W. Va.

Located 1.3 Mi. W. of 81 35' and 2.2 Mi. S. of 38 00' - NC - Bald Knob Quadrangle Elevation - 1704'

Permit Boo-496

Drilling commenced - May 11, 1941; Completed - Sept. 12, 1941

Shot Wug.15, 1944, depth 2404 to 2441'

Volume - 234,000 Cu. Ft.

Rock Pressure - 150# in 24 Hrs.

Fresh Water - 82'; 408'

Salt Water - 1460'; 1788'

CASI NG RECORD

10" 31'

84" 986'

6-5/8" 2263'

Section based on examination of samples from 38' to 2450' by C. N. Apsouri. Position and thickness of soal seams taken from driller's record. According to the Geologic Map of Boone County the well starts about 150 feet below the top of the Pottsville, which would make the total Pottsville thickness approximately 2385 feet.

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	2507 10000		
TOP	BOTTOM	THICKNESS	FORMATION
			POTTSVILLE FORMATION
0	22	22	Surface 2235 Feet
22	30	8	Sand
3 0	35	. 5	Clay
35	40	5	Sandstone, white
40.	ग्रेम	4	Coal
44	69	5 4 25 13 6	Sandstone, white, fine to very fine
69	82	13	Shale, dark to light gray
82	85	3	Coal
85 82 84 १५	91	6	Shale, gray, silty
91	150	59	Sandstone, white, very fine
150	164	14	Shale, gray to black
16 4	178	14	Coal
178	205	27	No samples
205	215	10	Sandstone, white, very fine
215	232	17	Shale, gray
232	236	4	Coal
236	250	14	Sandstone
250	256	6	Coal
256	290	34	Sandstone, white, fine to very fine
290	300	10	No samples
300	305	5	Shale, gray, carbonaceous
3 05	317	12	Sandstone, white, medium-grained
317	328	ii	Sandstone, white, fine
328	370	1,2	Shale, gray
370	375	42 5 15	Coal
375	3 90	าร์	Siltstone, gray and white, carbonaceous
390	460	7 0	Sandstone, white, medium-grained, contains
370	400	10	mica, chlorite, siderite, and carbon-
			aceous matter
460	470	10	Shake, gray to dark-gray
470	480	10	Sandstone, white, very fine
1,80	1490	10	Siltstone, gray, sandy
1,90	530	40	Sandstone, white, fine
530	540	10	
930	340	10	Siltstone, white, sandy, 50%; gray shale, 50%
540	591	51	Sandstone, white, very fine
591	594		Coal
594	600	3 6	Sandstone, white, very fine
600	660	60	
000	000	60	Siltstone, gray to light-gray, mostly
660	677	37	sandy Shele green of law
	685	17 8	Shale, gray, silty
677 685	69H	9	Shale, light - to dark-gray
694	758	614	Siltstone, gray, sandy Sandstone, white, fine
758	769	11	Siltstone, gray, sandy
769	818	149	
			Sandstone, white, very fine
818	831	13	Shale, gray to dark-gray

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Sandstone, white, very fine

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Pottsville Formation

TOP	BOTTOM	THICKNESS	FORMATION
879	889	10	Siltstone, gray
889	926	37	Sandstone, white, very fine
9 2 6	931	Š	Shale, gray
931	979	48	Sandstone, white, fine
979	1009	3 0	Shale and siltstone, gray
1009	1016	7	Sandstone, white, very fine, micaceous
1016	1024	. Š	Siltstone, dark-gray, sandy
1024	1039	15	Shale, gray, silty
1039	1065	26	Siltstone, white, sandy
1065	1136	71	Shale, gray to dark-gray
1136	1138	2	Sandstone, white, very fine
1138	1225	87	Shale, gray to dark-gray
1225	1292	67	Shale, and Siltstone, gray
1292	1343	5 i	Sandstone, light-gray, fine, contains
,_			some mica and siderite
1343	1350	7	Sandstone, light-gray, fine, 70%; gray
		·	shale and siltstone, 30%
1350	1363	13	Sandstone, light-gray, fine; contains
			mica and siderite
1363	1378	15	Sandstone, light-gray, fine, 60%; dark-
	-5.0	- 2	gray shale, 40%
1378	1417	39	Sandstone, white to light-gray, fine
-510		37	to medium-grained
1417	1476	59	Sandstone, white with some rust stain,
-4- 1	2410	<i>37</i>	fine; more nearly pure quartz than
			sandstones above
1476	1481	5	Sandstone, white, fine, 70%; dark-gray,
TITIO	1401	. •	shaly siltstone, 30%
1481	1491	10	Sandstone, light-gray, fine; few pieces
1401	14/1	10	of coal and a few coarse quartz grains
1491	1642	151	Sandstone, white, with varying amounts
1471	1042	±/±	of rust stain; fine to medium-grained
16և2	1646	14	Siltstone, dark-gray
1646	1658	12	Shale, dark-gray
1658	1668	10	Sandstone, white, very fine, 50%; gray
1020	1000	1.0	shale, 50%
1668	1764	96	Sandstone, white, fine
1764	1769		Shale, gray
1769	1896	5 127	Sandstone, white, fine
1896	1910	14	
1910	1928	18	Sandstone, white, coarse Sandstone, white, very fine
1928	1938	10	Sandstone, white, coarse
1938			Sandstone, white, very fine
1971	1971	33 6	Siltstone, gray shaly
	1977	17 17	
1977	2121	744	Sandstone, white, fine, medium-graines;
			individual samples show considerable variation in texture
27.27	מכ דמ	17	
2121	21.32	11	Shale, gray, silty
2132 2114	2114 2180	12 36	Siltatone, light-gray, sandy
		6 6	Sandstone, white, fine to very fine
2180 2186	2186	16	No sample
2100	2202	10	Sandstone, light-gray, fine, mostly broken into small chips
2202	2235	33	Sandstone, white, fine to medium-graines;
2202	2237	<i>)</i>	mostly broken up into individual grains,
			many of which have crystal faces
			month of witton note ofleast tenes
	•		Mauch Chunk Group
2235	2245	10	Shale, gray, soft, thinly laminated
2245	2250	5	Shale, gray, 70%; gray shaly limestone
	- -	- (30%
2250	2261	11.	No Sample
2261	2280	19	Limestone gray
2280	2285	Š	Shale, red
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Mauch Chunk Group

TOP	BOTTOM	THICKNESS	FORMATION
2285	2287	2	Shale, grayish-green, 75%; gray limestone 25%
2287	2295	8	Shale, red
2295	2307	12	Shale, red, 50%; green siltstone, 50%
2307	2317	10	Siltstone, green, sandy
2317	2358	41	Sandstone, white
2358	2365	7	Shale, gray, silty
2365	2379	1Å	Shale, red
2379	2384	<u> </u>	Shale, red and green
2384	2391	7	Siltstone, light-gray
2391	2409	18	Sandstone, white, very fine, (gas at 2404, 2409, 2413, 2417, 2423, 2425, 2436, 2440, and 2450
21:09	2474	5	Shale, red
بالتباع	2436	22	Sandstone, white, fine
2436	2442	6	Limestone, light-brown
21412	2450	8	Sandstone, white, very fine
	2450	•	TOTAL DEPTH