

Company Carnegie Natl Gas Co
 Address 1014 Frick Bldg. Pittsburgh, Pa
 Farm T. J. Coles
 Tract Acres 62.17 Lease No. 10011-48
 Well (Farm) No. One Serial No. 780
 Elevation (Spirit Level) 1216
 Quadrangle Cameron S. E. 1/4
 County Marshall District Liberty
 Engineer A. I. Ritchie
 Engineer's Registration No. _____
 File No. _____ Drawing No. _____
 Date 1-12-37 Scale 1" = 400'

STATE OF WEST VIRGINIA
 Department of Mines
 OIL AND GAS DIVISION
 Charleston

WELL LOCATION MAP
 File No. MARS-71A

+ Denotes location of well on U. S. Topographic Maps, scale 1 to 62,500 latitude and longitude lines being represented by border lines as shown.

— Denotes one inch spaces on border line of original tracing.

71A

Liberty District, Marshall County, W. Va.
 By Carnegie Natural Gas Co., 1614 Frick Bldg., Pittsburgh, Pa.
 On 70 acres; surface owned by Edward Clark, Cameron, W. Va., and
 mineral rights by Samuel N. and Ida Cole, 2238 - 22nd St.,
 Warwood, W. Va., Charles and Lucille Hartman, 2026 Jeff St.,
 Wheeling, W. Va., and Fred and Cora Reinken, 147 Virginia St.,
 Martins Ferry, Ohio. Lease No. K-10011-08.

Elevation, 1216' L.

Drilling commenced Sept. 5, 1918; completed, Oct. 16, 1918.

Shot Oct. 17, 1918, at 2975-2978'; Apr. 30, 1919, at 2974-2978';

Feb. 3, 1920, at 2951-2956'; and Feb. 9, 1922, at 2951-2957'.

Salt water at 1866'.

4" casing, 1398'; 6" casing, 2064'; 2" tubing, 2970'; all left in.

Coal was encountered at 853-859 and 945-953'.

Oil well. Abandonment reported to Dept. of Mines Jan. 21, 1937.

Record to ROT from D. G. Courtney (Dept. of Mines) 5-5-37.

	Top.	Bottom.
Hapleton (Swickley) Coal	853	- 859
Pittsburgh Coal	945	- 953
Little Duckard Sand	1282	- 1310
Big Duckard Sand (gas show, 1437')	1426	- 1446
Gas Sand	1475	- 1525
1st Salt Sand	1774	- 1774
2nd Salt Sand (water, 1866')	1855	- 1855
Horton Sand	1962	- 2015
Pencil Cove	2039	- 2041
Big Lime	2043	- 2093
Big Injun Sand	2093	- 2147
Squaw Sand	2490	- 2505
Boron Sand (show oil and gas, 2720')	2707	- 2723
Gordon Stray Sand	2918	- 2927
Gordon Sand (oil, 2955-2958')	2953	-
Total depth		2970

WEST VIRGINIA DEPARTMENT OF MINES
OIL AND GAS DIVISION

Lease No E 10011-48

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WELL RECORD

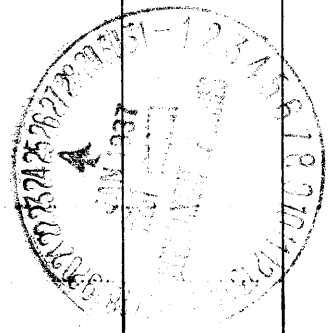
Permit No. MARS-71-A WELL TO BE ABANDONED Oil or Gas Well Oil
(Kind)

Company Carnegie Natural Gas Co
Address 1014 Frick Bldg Pittsburgh Pa
Farm T J Cole Acres 70
Location (waters) _____
Well No. 1-780 Elev. 1216
District Liberty County Marshall
The surface of tract is owned in fee by Edward Clark
Cameron Address W Va
Mineral rights are owned by See bottom this sheet
Address _____
Drilling commenced Sept 5 1918
Drilling completed Oct 16 1918
Date shot See bottom Depth of shot this sheet
Open Flow /10ths Water in _____ Inch
/10ths Merc. in _____ Inch
Volume _____ Cu. Ft.
Rock Pressure _____ lbs. _____ hrs.
Oil _____ bbls., 1st 24 hrs.
Fresh water _____ feet _____ feet
Salt water 1866 feet _____ feet

Casing and Tubing	Used in Drilling	Left in Well	Packers
Size			Kind of Packer
16.			
13.			
10.			Size of
8 1/4		<u>1358</u>	
6 5/8		<u>2064</u>	Depth set
5 3/16			
3.			Perf. top
2.		<u>2970</u>	Perf. bottom
Liners Used			Perf. top
			Perf. bottom

CASING CEMENTED _____ SIZE _____ No. FT. _____ Date _____
COAL WAS ENCOUNTERED AT 853 FEET _____ INCHES
945 FEET _____ INCHES _____ FEET _____ INCHES
_____ FEET _____ INCHES _____ FEET _____ INCHES

Formation	Color	Hard or Soft	Top	Bottom	Oil Gas or Water	Depth Found	Remarks
Mapleton Coal			853	859			
Pittsburgh Coal			945	953			
Little Dunkard			1282	1310			
Big Dunkard			1426	1446	Gas show	1437	
Gas Sand			1475	1525			
1st Salt Sand			1855	1895x	Water	1866	
			1734	1774			
2nd Salt Sand			1855	1895	Water	1866	
Maxton Sand			1982	2015			
Pencil Cave			2039	2041			
Big Lime			2043	2093			
Big Injun			2093	2347			
Squaw			2490	2505			
Berea			2707	2723	Show Oil and Gas	2720	
Gordon Stray			2918	2927			
Gordon			2953		Oil	2955-2958	
Total Depth			2970				
Shooting Record			Oct 17 1918	2955-2958			
			Apr 30 1919	2954-2958			
			Feb 3 1920	2951-2956			
			Feb 9 1922	2951-2957			
Mineral Rights owned by: - Samuel N and Ida Cole 2238-22nd St Warwood W Va Charles and Luella Hartman 2026 Eoff St Wheeling W Va Fred and Cora Reineke 147 Virginia St Martins Ferry Ohio							



Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth Found	Remarks

Date **Jan 21 1937**, 19.....

APPROVED..... **CARNEGIE NATURAL GAS COMPANY**....., Owner

By..... *R.A. Archer*.....
 Land Agt (Title)