

Company PITTSBURGH & W.VA. GAS CO.  
 Address CLARKSBURG, W.VA.  
 Farm CARAMANTHA MARTIN  
 Tract \_\_\_\_\_ Acres 7.0 Lease No. 8342  
 Well (Farm) No. ONE Serial No. 2391  
 Elevation (Spirit Level) 1397 V.A.  
 Quadrangle CLARKSBURG, N.E. 17  
 County MARION District MANNINGTON  
 Engineer Kenneth B. Moore  
 Engineer's Registration No. \_\_\_\_\_  
 File No. VOLD-32 P25 Drawing No. \_\_\_\_\_  
 Date NOV 17, 1947 Scale 1" = 500'

STATE OF WEST VIRGINIA  
 DEPARTMENT OF MINES  
 OIL AND GAS DIVISION  
 CHARLESTON

WELL LOCATION MAP  
 FILE NO. MAR-492-A

+ Denotes location of well on United States 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

CARAMANTHA MARTIN Tr. 1 (2391) - PGH & W.VA. GAS CO. - MAR-492-A

STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES  
OIL AND GAS DIVISION

573

WELL RECORD

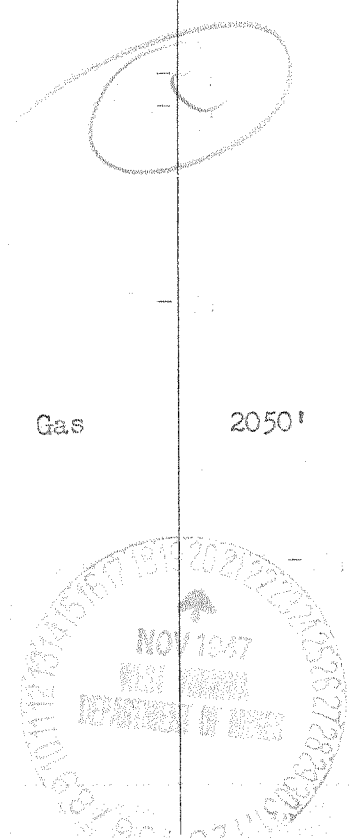
Permit No. Y92-A Oil or Gas Well GAS  
(Kind)

Company Pittsburgh & West Va Gas Company.  
Address Clarksburg, West Va.,  
Farm Garamanatha Martin Acres 70  
Location (waters) Clarksburg N/E. 1-3  
Well No. 2391 Elev. 1397'  
District Mannington County Marion  
The surface of tract is owned in fee by Carl Nuzum  
R.D.# 4 Address Mannington, W.Va.  
Mineral rights are owned by A. F. Martin-Atty-in-Fact  
Hrs. Martha A. Martin Address Elkins, West Va.  
Drilling commenced October 18, 1910  
Drilling completed November 15, 1910  
Date shot \_\_\_\_\_ Depth of shot \_\_\_\_\_  
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 \_\_\_\_\_ feet \_\_\_\_\_ feet

Casing and Tubing	Used in Drilling	Left in Well	Packers
Size			
16.			Kind of Packer.
18.			
10.	156'	156'	Size of
8 1/4	1029'	1029'	
6 5/8	1890'	1890'	Depth set
5 3/16	2738'	2738'	
3.			Perf. top
2.			Perf. bottom
Liners Used			Perf. top
			Perf. bottom

CASING CEMENTED \_\_\_\_\_ SIZE \_\_\_\_\_ No. Ft. \_\_\_\_\_ Date \_\_\_\_\_  
COAL WAS ENCOUNTERED AT 560' FEET 72 INCHES  
\_\_\_\_\_ FEET \_\_\_\_\_ INCHES FEET \_\_\_\_\_ INCHES  
\_\_\_\_\_ FEET \_\_\_\_\_ INCHES FEET \_\_\_\_\_ INCHES

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth Found	Remarks
Clay	Yellow	Soft	0	12			
Slate	White	"	12	140			
Sand	"	"	140	220	Water	210'	10 Bbls.
Slate	"	Hard	220	320			
Lime	"	"	320	535			
Slate	"	Soft	535	560			
Pgh. Coal	Black	"	560	566			
Slate	White	"	566	596	Water	570'	10 Bbls.
Lime	"	Hard	596	760			
Red Rock	Red	Soft	760	810			
Slate&Lime	White	Soft&Hard	810	885			
Little Dunkard	"	Hard	885	945	Gas	888'	
Slate	Black	Soft	945	1029			
Big Dunkard	White	Hard	1029	1100			
Slate	Black	Soft	1100	1125			
Sand	"	Hard	1125	1175			
Slate	White	Soft&Hard	1175	1225			
Gas Sand	"	Hard	1225	1340			
Slate	Black	Soft	1340	1345			
1st. Salt Sand	"	Hard	1345	1460			
Slate	"	Soft	1460	1490			
2nd. Salt Sand	White	Hard	1490	1670			
Red Rock	Red	Soft	1670	1710			
Slate	White	"	1710	1750			
Maxon Sand	"	Hard	1750	1775			
Red Rock	Red	Soft	1775	1856			
Little Lime	White	Hard	1856	1875			
Pencil Cave	Black	Soft	1875	1880			
Big Lime	White	Hard	1880	1925			
Big Injun	"	"	1925	2068	Gas	2050'	
Slate	"	Soft	2068	2076			
Lime	Light	Hard	2076	2091			
Slate	Dark	Soft	2091	2105			
Lime	Light	Hard	2105	2130			
Lime-Gritty	White	"	2130	2145			
Un-recorded			2145	2208			
Lime&Shells	White	Hard	2208	2232			
Un-recorded			2232	2255			
Slate	White	Soft	2255	2285			
"	"	"	2285	2320			
Un-recorded			2320	2330			
Sand	Black	Hard	2330	2344			



Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth Found	Remarks
Un-recorded			2344	2350			
Lime	White	Hard	2350	2380			
Sand	"	"	2380	2415			
Slate	Dark	Soft	2415	2448			
Lime	White	Hard	2448	2473			
Fifty Foot Sd.	"	"	2473	2554	Gas	2502-05'	
Slate	Dark	Soft	2554	2560			
Sand	White	Hard	2560	2570			
Slate	"	Soft	2570	2590			
Red Rock	Red	"	2590	2595			
Lime&Shells	White	Hard	2595	2625			
Red Rock	Red	Soft	2625	2640			
Sand Shells	White	Hard	2640	2650			
Sand	"	"	2650	2660	Gas 2656-58'		
Pink Rock	Pink	Soft	2660	2682			
Shells			2682	2700			
Slate	White	Soft	2700	2729			
Gordon Stray	"	Hard	2729	2747			
Slate	Dark	Soft	2747	2752			
Gordon Sand	Gray	Hard	2752	2782	Gas 2762-64'		
Un-recorded			2782	2785	Gas 2791-94'		
Ath.Sand	White	Hard	2785	2805			
Lime Shells	"	"	2805	2835			
Slate	"	Soft	2835	2900			
"	"	"	2900	2905			
Lime	"	"	2905	2910			
Slate	"	"	2910	2944			
Lime (Gritty)	"		2944	2953			
Slate			2953	2967			
Total Depth				2967			

Date..... December 3, 1941. ...., 19.....

APPROVED..... PITTSBURGH & WEST VA GAS COMPANY. ...., Owner

By.....  
(Title)

Record of Well No. 2391 Located on Caramantha Martin Farm Sept 30 19    
Marion District Marion County West Va State  
 Division    District No. 11 Drilled under well Order 165  
 Rig built by John Craig Began Oct 13 1910 Completed Oct 18 1910  
Callum Decker Began Oct 8 1910 Completed Nov 15 1910  
 Well drilled by M. Deubert Began Oct 18 1910 Completed Nov 15 1910  
 Depth of Well 2076 feet Size of Hole 6 7/8" Producing Gas  
2907 5 3/16" Elev. 1397' G.L.

CASED WITH			REMARKS
AMOUNT	SIZE	KIND	
<u>16'</u>	<u>13"</u>	<u>Wood</u>	
<u>156'</u>	<u>16"</u>	<u>Old</u>	
<u>1829'</u>	<u>8 1/4"</u>	<u>"</u>	
<u>1890'</u>	<u>6 7/8"</u>	<u>New</u>	
<u>2938'</u>	<u>5 3/16"</u>	<u>Old</u>	<u>1-6 7/8" x 5 3/16" casing packed set at 2432 ft</u> <u>206 ft. of casing preparation set at 2882 + 2658 ft. 5 1/2"</u>

COAL VEINS 560-566 Maplewood 450-454

FORMATIONS					
FORMATION	COLOR	OPEN OR CLOSE HARD OR SOFT	TOP	BOTTOM	REMARKS GAS-OIL-WATER (THICKNESS OF PAY)
<u>Big Limestone</u>			<u>1891</u>	<u>1928</u>	<u>Water 210</u>
<u>Big Limestone</u>			<u>1928</u>	<u>2068</u>	<u>Gas 2103</u>
<u>Heat Dept (Plate)</u>				<u>2076</u>	
<u>Drilling sand</u>					
<u>Reddish shale</u>			<u>2473</u>	<u>2554</u>	<u>" 2582 - 4.0 W 1"</u>
<u>Shale sand</u>			<u>2657</u>	<u>2660</u>	<u>" 2656 - 58. 1.6 W 2"</u>
<u>Shale sand</u>			<u>2729</u>	<u>2749</u>	<u>.5 W 2"</u>
<u>Reddish shale</u>			<u>2752</u>	<u>2782</u>	<u>" 2782-64 - .6 W 2"</u>
<u>Shale</u>			<u>2785</u>	<u>2805</u>	<u>" 2791-74 - 5.6 W 2"</u>
<u>Reddish shale (Plate)</u>			<u>2944</u>	<u>2953</u>	<u>3.7 W 2"</u>
<u>Heat Dept (Plate)</u>				<u>2969</u>	<u>Steel line</u>
				<u>2076</u>	
				<u>New Ftg - 893'</u>	

FIRST PRESSURE TEST IN		CASING	REMARKS
30 Sec.	60 lbs.	6 5/8" casing 2	
1 Min.	125	4	
2 "	150	9	
5 "	240	21	
10 "	310	36	June 1918. 7 W 2". 126, 240 75-48 hrs.
15 "	330	49	
30 "	375	55	
Rock Pressure	" 100 min in	62 70 - at 100	
Taken	Nov 15 1918	May 4 1929	
By	Amerman	Whit Bradley	

WELL TUBED AND PACKED Nov 25 1918

VIZ:- 113 ft 2096 ft. 3" Tubing (well)  
 1-6 5/8 x 3" Heater Caster Cacker  
 6 ft. 116 ft. 3" Packing below Cacker

FIRST PRESSURE TEST IN		TUBING	REMARKS
30 Sec.	100 lbs.	3"	
1 Min.	145		
2 "	200		
5 "	314		
10 "	325		
15 "	330		
30 "			
Rock Pressure	375	" in 24 hrs.	
Taken	Nov 28 1918		
By	Amerman		

MATERIAL FOR THIS WELL RECEIVED FROM FOLLOWING SOURCES:

FORMATIONS

FORM: 032-5170

Well 2391. Caramantha Marine

NAME	TOP	BOTTOM	OIL	GAS	WATER	REMARKS
Whitely Limestone	2076	2091				
Slate	2091	2105				
Limestone	2105	2130				
Whitely Limestone	2130	2145				
Lime & Shells	2205	2232				
Slate	2285	2320				
Sand	2330	2344				
Limestone	2350	2355				
Sand	2350	2410				
Slate	2415	2448				
Limestone	2448	2478				
Rippled Sand	2478	2532		2532-2535		
Slate	2534	2560				
Sand	2560	2570				
Slate	2570	2570				
Red Rock	2570	2575				
Lime & Shell	2575	2625				
Red Rock	2625	2640				
Sand Shell	2640	2660				
Sand	2660	2660		2660-58		
Crup Rock	2660	2682				
Shells	2682	2700				
Slate	2700	2729				
London Clay	2729	2749				Steel Line 2731 ft.
Slate	2749	2752				
London Sand	2752	2782		2762-2764		
North Sand	2785	2815		2791-2794		
Lime & Shells	2815	2835				
Slate	2835	2900				
Slate	2900	2905				
Limestone	2905	2910				
Slate	2910	2944				
Whitely Limestone	2944	2963				
Slate	2963	2967				
Red Rock		2967				