

New Location    
 Drill Deeper    
 Abandonment

Company **CARNEGIE NATURAL GAS CO**  
 Address **Pittsburgh, Penna.**  
 Farm **Leeman Maxwell**  
 Tract \_\_\_\_\_ Acres **2154** Lease No. **6764**  
 Well (Farm) No. **31-1734** Serial No. \_\_\_\_\_  
 Elevation (Spirit Level) **1252**  
 Quadrangle **Holbrook - NE**  
 County **Doddridge** District **West Union**  
 Engineer **[Signature]**  
 Engineer's Registration No. **1227**  
 File No. \_\_\_\_\_ Drawing No. \_\_\_\_\_  
 Date **Jan. 1960.** Scale **1" = 50 poles.**

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

**WELL LOCATION MAP**  
 FILE NO. **DOD-294**

+ 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.

6-6 133



STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES  
OIL AND GAS DIVISION 5

Quadrangle Holbrook N. E.

WELL RECORD

Permit No. DOD-294

Oil or Gas Well Gas  
(KIND)

Company Carnegie Natural Gas Company  
Address 1015 Frick Building, Pittsburgh 19, Pa.  
Farm Leeman Maxwell Acres 2164  
Location (waters) Bluestone Creek  
Well No. 31 - 1734 Elev. 1252  
District West Union County Doddridge  
The surface of tract is owned in fee by \_\_\_\_\_  
Address \_\_\_\_\_  
Mineral rights are owned by \_\_\_\_\_  
Address \_\_\_\_\_  
Drilling commenced February 2, 1960  
Drilling completed March 9, 1960  
Date Shot \_\_\_\_\_ From \_\_\_\_\_ To \_\_\_\_\_  
With \_\_\_\_\_  
Open Flow \_\_\_\_\_ /10ths Water in \_\_\_\_\_ Inch  
50 /10ths Merc. in 3" Inch  
Volume 2,475,000 Cu. Ft.  
Rock Pressure 780 lbs. 24 hrs.  
Oil \_\_\_\_\_ bbls., 1st 24 hrs.  
WELL ACIDIZED \_\_\_\_\_  
WELL FRACTURED March 21, 1960

Casing and Tubing	Used in Drilling	Left in Well	Packers
Size			Kind of Packer _____
16			<u>Hold Down Tension</u>
13			Size of _____
10	<u>460</u>	<u>460</u>	<u>3" x 7"</u>
8 3/4	<u>1242</u>	<u>1242</u>	Depth set <u>1960</u>
6 3/4	<u>2026</u>	<u>2026</u>	
5 3/16			
3	<u>1970</u>	<u>1970</u>	Perf. top <u>1972</u>
2			Perf. bottom <u>1992</u>
Liners Used			Perf. top _____
			Perf. bottom _____

CASING CEMENTED \_\_\_\_\_ SIZE 7" No. Ft. 2026 Date \_\_\_\_\_

COAL WAS ENCOUNTERED AT \_\_\_\_\_ FEET \_\_\_\_\_ INCHES  
\_\_\_\_\_ FEET \_\_\_\_\_ INCHES \_\_\_\_\_ FEET \_\_\_\_\_ INCHES  
\_\_\_\_\_ FEET \_\_\_\_\_ INCHES \_\_\_\_\_ FEET \_\_\_\_\_ INCHES

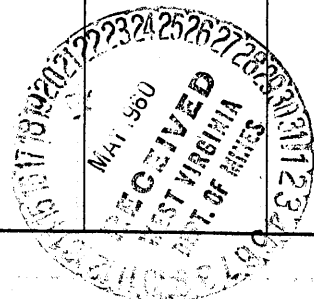
RESULT AFTER TREATMENT 2,475,000 cu ft.

ROCK PRESSURE AFTER TREATMENT 780#

Fresh Water 148' Feet 384' Salt Water \_\_\_\_\_ Feet

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth	Remarks
Soil		Soft	0	16			
Soapstone		Soft	16	42			
Rock	Gray	Hard	42	51			
Slate	Red	Soft	51	65			
Slate	Black	Soft	65	70			
Red Rock		Soft	70	78			
Slate	Gray	Soft	78	83			
Red Rock	Red	Soft	83	90			
Slate	Gray	Soft	90	95			
Rock	Blue	Hard	95	104			
Red Rock		Soft	104	149	Water	148	1/4 bailer per hour
Sand	Dark	Hard	149	170			
Lime	Gray	Hard	170	185			
Red Rock		Soft	185	240			
Slate	Gray	Soft	240	263			
Sand	Gray	Soft	263	280			
Lime	Black	Hard	280	290			
Slate	Dark	Soft	290	322			
Red Rock		Soft	322	353			
Sand	Light	Hard	353	408	Water	384	1 bailer per hour
Slate	White	Soft	408	412			
Sand	Dark	Hard	412	433			
Red Rock		Soft	433	458			
Shells & Rock	Red	Soft	458	460			
Lime	Light	Hard	460	465			
Red Rock		Soft	465	482			
Slate	White	Soft	482	490			
Lime	White	Hard	490	497			
Red Rock		Soft	497	514			
Lime	Black	Hard	514	516			

(over)



Formation	Color	Hard or Soft	Top 5	Bottom	Oil, Gas or Water	Depth Found	Remarks
Slate	Light	Soft	516	526			
Slate		Hard	526	530			
Lime		Hard	530	550			
Slate	Dark	Soft	550	645			
Red Rock		Soft	645	675			
Slate		Soft	675	685			
Red Rock		Soft	685	700			
Slate		Soft	700	715			
Red Rock		Soft	715	728			
Slate	Gray	Soft	728	760			
Sand	Gray	Hard	760	788			
Slate	Gray	Soft	788	800			
Red Rock		Soft	800	818			
Slate	Black	Soft	818	835			
Lime	Black	Hard	835	844			
Slate	Black	Soft	844	854			
Slate	Black	Hard	854	871			
Slate	Black	Soft	871	884			
Red Rock		Soft	884	894			
Slate	Gray	Soft	894	928			
Red Rock		Soft	928	935			
Lime-Gritty	Dark	Hard	935	953			
Red Rock		Soft	953	963			
Slate	Gray	Soft	963	1013			
Lime-Gritty	Light	Hard	1013	1022			
Slate	Light	Soft	1022	1065			
Sand	Gray	Med.	1065	1085			
Lime	Dark	Hard	1085	1120			
Sand	Gray	Hard	1120	1128			
Lime	Gray	Hard	1128	1166			
Slate	Gray	Soft	1166	1182			
Sand	Gray	Hard	1182	1200			
Lime	Blavk	Med.	1200	1207			
Slate	Dark	Soft	1207	1239			
Lime	Gray	Hard-Gritty	1239	1255			
Sand	Gray	Med.	1255	1279			
Lime	Black	Soft	1279	1290			
Slate & Shls.	Gray	Soft	1290	1300			
Sand	White	Hard	1300	1328			
Slate	Dark	Soft	1328	1385			
Sand	Dark	Med.	1385	1424			
Slate	Black	Med.	1424	1431			
Sand	Dark	Med.	1431	1455			
Slate	Dark	Med.	1455	1470			
Shale & Lime		Hard	1470	1540			
Slate		Soft	1540	1616			
Shale	Dark	Hard	1616	1629			
Sand	Light	Hard	1629	1660	Gas	1629-31	
Slate & Shls.		Med.	1660	1691			
Lime Shells		Hard	1691	1700			
Shale		Hard	1700	1726			
Lime	Black	Hard	1726	1760			
Slate Shls.		Med.	1760	1825			
Lime	Black	Med.	1825	1853			
Shale	Blue	Soft	1853	1860			
Lime	Gray	Gritty	1860	1880			
Lime	Gray	Hard	1880	1937			
Sand	White	Hard	1937	2013	Gas	1972-93	Big Lime Big Injun
Slate	Dark		2013				
		Total depth		2026			

Date May 18, 19 60

APPROVED CARNEGIE NATURAL GAS COMPANY, Owner

By \_\_\_\_\_ (Title) Land Agent