

New Location ..   
 Drill Deeper .....   
 Abandonment .....

No known coal in this vicinity  
 Surface owned by Mrs. Mary L. Holland,  
 West Union, W. Va.

Company	<b>CARNEGIE NATURAL GAS CO</b>
Address	<i>Pittsburgh, Penna.</i>
Farm	<i>Leeman Maxwell</i>
Tract	Acres <i>2154</i> Lease No. <i>E-6764</i>
Well (Farm) No.	<i>32-</i> Serial No. <i>E-1737</i>
Elevation (Spirit Level)	<i>1228</i>
Quadrangle	<i>Holbrook NE</i>
County	<i>Doddridge</i> District <i>West Union</i>
Engineer	<i>W. H. [Signature]</i>
Engineer's Registration No.	<i>1227</i>
File No.	Drawing No.
Date	<i>April 1960</i> Scale <i>1" = 50 poles</i>

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

**WELL LOCATION MAP**  
 FILE NO. *DOD - 346*

+ 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.



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

Quadrangle Holbrook N. E.

Permit No. DOD-346

WELL RECORD

Oil or Gas Well Gas  
(KIND)

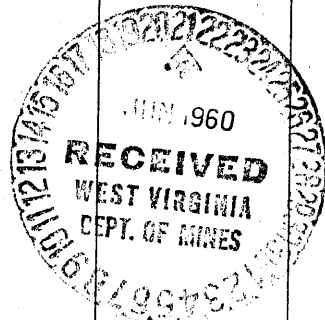
Company Carnegie Natural Gas Company  
Address 1015 Frick Bldg., Pittsburgh 19, Pa.  
Farm Leeman Maxwell Acres 2164  
Location (waters) Bluestone Creek  
Well No. 32 - 1737 Elev. 1228  
District West Union County Doddridge  
The surface of tract is owned in fee by \_\_\_\_\_  
Address \_\_\_\_\_  
Mineral rights are owned by \_\_\_\_\_  
Address \_\_\_\_\_  
Drilling commenced April 18, 1960  
Drilling completed May 18, 1960  
Date Shot \_\_\_\_\_ From \_\_\_\_\_ To \_\_\_\_\_  
With \_\_\_\_\_  
Open Flow \_\_\_\_\_ /10ths Water in \_\_\_\_\_ Inch  
\_\_\_\_\_ /10ths Merc. in \_\_\_\_\_ Inch  
Volume 130,000 Cu. Ft.  
Rock Pressure 620 lbs. 24 hrs.  
Oil \_\_\_\_\_ bbls., 1st 24 hrs.  
WELL ACIDIZED \_\_\_\_\_  
WELL FRACTURED 5-26-60

Casing and Tubing	Used in Drilling	Left in Well	Packers
Size			Kind of Packer
16			<u>Hold Down Tension</u>
13			Size of <u>3" x 7"</u>
10	<u>409</u>	<u>409</u>	Depth set <u>1900</u>
8 1/4	<u>1205</u>	<u>1205</u>	Perf. top _____
6 3/4	<u>2001</u>	<u>2001</u>	Perf. bottom _____
5 3/16			Perf. top _____
3	<u>1923</u>	<u>1923</u>	Perf. bottom _____
2			
Liners Used			

CASING CEMENTED \_\_\_\_\_ SIZE 7" No. Ft. \_\_\_\_\_ Date \_\_\_\_\_  
25 bags cement  
COAL WAS ENCOUNTERED AT \_\_\_\_\_ FEET \_\_\_\_\_ INCHES  
\_\_\_\_\_ FEET \_\_\_\_\_ INCHES FEET \_\_\_\_\_ INCHES  
\_\_\_\_\_ FEET \_\_\_\_\_ INCHES FEET \_\_\_\_\_ INCHES

RESULT AFTER TREATMENT 3,834,000 cu ft.  
ROCK PRESSURE AFTER TREATMENT 770# - 14 hours.  
Fresh Water 247 Feet Salt Water \_\_\_\_\_ Feet

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth	Remarks
Clay	Yellow	Soft	0	35			
Red Rock		Soft	35	75			
Lime		Gritty	75	91			
Red Rock		Soft	91	112			
Rock	Gray	Gritty	112	142			
Red Rock		Soft	142	205			
Slate	Gray	Soft	205	229			
Red Rock		Soft	229	240			
Slate	Gray	Soft	240	245			
Sand	Gray	Hard	245	260	Water	247'	1/2 bailer
Slate	Gray	Soft	260	270			
Red Rock		Soft	270	330			
Sand	Gray	Medium	330	359			
Sand	White	Hard	359	378			
Slate	White	Soft	378	385			
Sand	Gray	Hard	385	400			
Slate	Gray	Soft	400	408			
Lime	Black	Hard	408	422			
Red Rock		Med.	422	428			
Slate	White	Med.	428	433			
Red Rock		Soft	433	450			
Shale	Gray	Hard	450	465			
Slate	Gray	Soft	465	472			
Lime	Dark	Med.	472	527			
Lime & Slate	Dark	Med.	527	535			
Shale	Gray	Soft	535	540			
Slate	Gray	Soft	540	620			
Red Rock		Med.	620	630			
Slate	Gray	Hard	630	640			



Formation	Color	Hard or Soft	Top 5	Bottom	Oil, Gas or Water	Depth Found	Remarks
Sand - Fine	Gray	Hard	640	646			
Red Rock		Soft	646	680			
Slate & Shells		Med.	680	726			
Red Rock		Med.	726	735			
Slate	Light	Soft	735	742			
Sand	Blue	Hard	742	760			
Slate	Gray	Med.	760	860			
Red Rock		Soft	860	872			
Slate & Shale		Soft	872	905			
Lime	White	Gritty	905	909			
Sand	White	Soft	909	910			
Lime	Dark	Gritty	910	960			
Lime	Gray	Soft	960	1012			
Lime	Black	Hard	1012	1020			
Slate	Dark	Med.	1020	1026			
Coal	Black	Soft	1026	1032			
Lime	Gray	Med.	1032	1041			
Sand	Light	Med.	1041	1051			
Lime	Blue	Hard	1051	1090			
Lime	Gray	Med.	1090	1112			
Slate & Shells		Med.	1112	1125			
Lime	Dark	Hard	1125	1138			
Slate	Gray	Med.	1138	1140			
Lime	Light	Hard	1140	1190			
Lime	Black	Med.	1190	1240			
Sand	Gray	Med.	1240	1270			
Slate	Dark	Med.	1270	1316			
Sand	Gray	Med.	1316	1321			
Coal show		Soft	1321	1324			
Slate	Dark	Med.	1324	1360			
Sand	Dark	Med.	1360	1410			
Slate	Dark	Med.	1410	1418			
Sand	Dark	Med.	1418	1442			
Slate	Dark	Med.	1442	1530			
Slate & Shells		Med.	1530	1562			
Sand	Light	Hard	1562	1605	Gas	1595-1603	Maxon
Slate	Dark	Med.	1605	1615			
Sand	Gray	Hard	1615	1640			
Lime	Black	Med.	1640	1650			
Slate & Shells		Med.	1650	1666			
Lime	Dark	Hard	1666	1674			
Slate & Shells		Med.	1674	1710			
Lime	Dark	Med.	1710	1740			
Slate	Gray	Med.	1740	1750			
Lime Shells & Red Rock		Hard	1750	1788			
Lime		Hard	1788	1807			Little Lime
Slate & Shells		Med.	1807	1830			Pencil
Lime	Gray	Hard	1830	1907			Big Lime
Sand	Gray	Hard	1907	1985	Gas	1930-1963	Big Injun
Slate	Dark	Soft	1985				
			Total depth	2003			