

New Location
 Drill Deeper
 Abandonment

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

Company CARNEGIE NATURAL GAS CO.
 Address Pittsburgh, Penna.
 Farm Leeman Maxwell
 Tract _____ Acres 2164 Lease No. 6764
 Well (Farm) No. 33 Serial No. 1740
 Elevation (Spirit Level) 1187
 Quadrangle Halbrook NE
 County Doddridge District West Union
 Engineer [Signature]
 Engineer's Registration No. 1827
 File No. _____ Drawing No. _____
 Date June, 1960 Scale 1" = 50 poles.

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

WELL LOCATION MAP
 FILE NO. DOD - 399

+ 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-399

WELL RECORD

Oil or Gas Well Gas
(KIND)

Company Carnegie Natural Gas Company
Address 1015 Frick Bldg., Pittsburgh 19, Pa.
Farm Leeman Maxwell Acres 21.54
Location (waters) Bluestone Creek
Well No. 33-1740 Elev. 1187
District West Union County Doddridge
The surface of tract is owned in fee by _____
Address _____
Mineral rights are owned by _____
Address _____
Drilling commenced July 15, 1960
Drilling completed September 7, 1960
Date Shot _____ From _____ To _____
With _____
Open Flow 7 /10ths Water in 2 Inch
_____ /10ths Merc. in _____ Inch
Volume 112,000 Cu. Ft.
Rock Pressure 650 lbs. 15 hrs.
Oil _____ bbls., 1st 24 hrs.

Casing and Tubing	Used in Drilling	Left in Well	Packers
Size			
16			Kind of Packer _____
13			Hold Down Tension _____
10	<u>407</u>	<u>407</u>	Size of <u>3 1/2" x 7"</u>
8 1/4	<u>1200</u>	<u>1200</u>	
6 5/8	<u>1999</u>	<u>1999</u>	Depth set <u>1928</u>
5 3/16			
3	<u>1928</u>	<u>1928</u>	Perf. top _____
2			Perf. bottom _____
Liners Used			Perf. top _____
			Perf. bottom _____

CASING CEMENTED _____ SIZE _____ No. Ft. _____ Date _____

COAL WAS ENCOUNTERED AT _____ FEET _____ INCHES
_____ FEET _____ INCHES FEET _____ INCHES
_____ FEET _____ INCHES FEET _____ INCHES

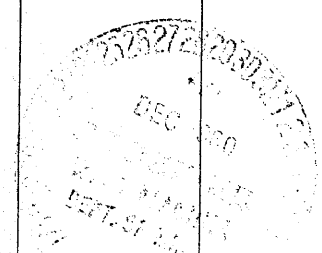
WELL FRACTURED 9-7-60
Riverfrac - 758 bbls water and 45,000#

RESULT AFTER TREATMENT 4,142,000 cu ft.

ROCK PRESSURE AFTER TREATMENT 720# in 8 hours.

Fresh Water 265 Feet 350-55 Salt Water _____ Feet

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth	Remarks
Top Soil	Yellow	Soft	0	8			
Sand Rock	Yellow	Hard	8	23			
Clay	White	Soft	23	34			
Red Rock		Soft	34	82			
Slate	White	Soft	82	95			
Red Rock		Soft	95	110			
Slate	Black	Soft	110	120			
Sand	Gray	Med.	120	151			
Red Rock		Soft	151	170			
Rock	Blue	Hard	170	190			
Red Rock		Soft	190	210			
Slate	Gray	Soft	210	238			
Sand	Gray	Med.	238	246			
Slate	Gray	Soft	246	250			
Sand & Lime	Blue	Hard	250	276	Water	265	1 bailer per hr.
Red Rock		Soft	276	286			
Sand	Light	Hard	286	310			
Red Rock		Soft	310	330			
Sand	Light	Hard	330	375	Water	350-55	2 bailers per hr.
Slate	Gray	Soft	375	390			
Lime	Gray	Gritty	390	418			
Red Rock		Med.	418	445			
Lime-Gritty	Dark	Med.	445	460			
Red Rock		Med.	460	470			
Lime	Gray	Med.	470	510			
Slate	White	Soft	510	516			
Red Rock		Soft	516	525			
Slate	White	Soft	525	550			
Lime	Dark	Hard	550	560			
Red Rock		Med.	560	676			



Formation	Color	Hard or Soft	Top 5	Bottom	Oil, Gas or Water	Depth Found	Remarks
Slate	Dark	Med.	676	685			
Red Rock		Soft	685	695			
Slate	Dark	Hard	695	702			
Lime-Gritty		Hard	702	712			
Slate	Light	Med.	712	730			
Lime	Gray	Med.	730	770			
Red Rock		Soft	770	780			
Slate & Shls.		Med.	780	791			
Lime-Gritty		Hard	791	798			
Slate	Gray	Soft	798	860			
Red Rock		Soft	860	875			
Slate & Shls.		Med.	875	980			
Lime	Black	Med.	980	1028			
Sand	Light	Hard	1028	1050			
Slate	Light	Med.	1050	1058			
Lime	Dark	Hard	1058	1114			
Slate	Light	Soft	1114	1118			
Lime	Dark	Hard	1118	1135			
Slate	Black	Med.	1135	1143			
Lime	Dark	Hard	1143	1150			
Slate	Dark	Med.	1150	1180			
Sand	Gray	Med.	1180	1230			
Slate	Black	Med.	1230	1275			
Lime	Light	Hard	1275	1300			
Slate & Shls.		Med.	1300	1347			
Sand	Gray	Hard	1347	1390			
Slate	Black	Med.	1390	1400			
Lime	Black	Med.	1400	1435			
Slate & Shls.	Dark	Med.	1435	1500			
Lime		Hard	1500	1515			
Slate	Dark	Med.	1515	1578			
Sand	White	Hard	1578	1626	Gas	1595	
Lime-Gritty	Black	Med.	1626	1678			
Sand	Gray	Hard	1678	1696			
Slate	Dark	Soft	1696	1722			
Lime	Dark	Hard	1722	1732			
Slate	Blue	Med.	1732	1735			
Red Rock		Soft	1735	1740			
Lime	Blue	Med.	1740	1790			
Slate	Black	Med.	1790	1798			
Lime	Dark	Hard	1798	1822			Little Lime
Slate	Dark	Soft	1822	1830			Pencil Cave
Lime	Gray	Hard	1830	1900			Big Lime
Sand	Gray	Hard	1900	1981	Gas	1908-17'	Big Injun
Slate	Dark	Med.	1981		Gas	1934-72'	
Total depth				1999			