



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

I, the undersigned, hereby certify that this map is correct to the best of my knowledge and belief and shows all the information required by paragraph 6 of the rules and regulations of the oil and gas section of the mining laws of West Virginia.

Signed: [Signature]  
 Squares: N S E W

Map No.

Company Carnegie Natural Gas Co.  
 Address Munhall, Penna.  
 Farm Leeman Maxwell  
 Tract \_\_\_\_\_ Acres 1900 Lease No. 6763  
 Well (Farm) No. 40 Serial No. 1766  
 Elevation (Spirit Level) 1123  
 Quadrangle Centerpoint SW  
 County Doddridge District West Union  
 Engineer [Signature]  
 Engineer's Registration No. 1227  
 File No. \_\_\_\_\_ Drawing No. \_\_\_\_\_  
 Date Aug 15, 1972 Scale 1" = 800' = 1320'

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

WELL LOCATION MAP  
 FILE NO. DOD-1689

+ 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.



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STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES  
Oil and Gas Division

OIL & GAS DIVISION  
DEPT. OF MINES

WELL RECORD 2

Rotary  Oil  
Cable \_\_\_\_\_ Gas  No. 1  
Recycling \_\_\_\_\_ Comb.  
Water Flood \_\_\_\_\_ Storage  
Disposal \_\_\_\_\_ (Kind)

Quadrangle Centerpoint S. W.

Permit No. Dod 1-1689

Company Carnegie Natural Gas Company  
Address 3904 Main Street, Munhall, Pa.  
Farm Leeman Maxwell Acres 1060  
Location (waters) Blaine  
Well No. 10-1766 Elev. 1123  
District West Union County Doddridge  
The surface of tract is owned in fee by \_\_\_\_\_

Casing and Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft. (Sks.)
Size 20-16			
Cond. 13-10"	263	263	118 Sks (263')
9 5/8			
8 5/8			
7			
5 1/2			
4 1/2	1946	1946	130 Sks (537')
3			
2			
Liners Used			

Address \_\_\_\_\_  
Mineral rights are owned by \_\_\_\_\_  
Address \_\_\_\_\_  
Drilling Commenced 9/11/72  
Drilling Completed After Frac. 11/16/72  
Initial open flow 103,000 cu. ft. \_\_\_\_\_ bbls.  
Final production 695,000 ft. per day \_\_\_\_\_ bbls.  
Well open \_\_\_\_\_ hrs. before test \_\_\_\_\_ RP.

Well treatment details:

Attach copy of cementing record.

Well fractured 11/6/72 by Lowell with 18,000 Sand, 1098 bbls. water & 1000 gal. acid in 2 zones, Blue Monday Big Injun.

Perfs: 1754'-1764' w/ 10 Shots; 1830'-1840' w/ 5 Shots; 1880'-1898' w/ 5 shots.

Coal was encountered at None Feet \_\_\_\_\_ Inches \_\_\_\_\_  
Fresh water \_\_\_\_\_ Feet \_\_\_\_\_ Salt Water \_\_\_\_\_ Feet \_\_\_\_\_  
Producing Sand Blue Monday 1744'-1776' Big Injun 1823-1898'

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
Clay			0	15		
Sand			15	45		
Red Rock			45	65		
Slate & Shells			65	123		
Red Rock			123	133		
Slate & Shells			133	182		
Red Rock			182	208		
Slate & Shells			208	219		
Red Rock			219	238		
Slate & Shells			238	245		
Slate			245	275		
Sand			275	340		
Sand & Shells			340	532		
Red Rock			532	568		
Slate			568	610		
Red Rock			610	621		
Slate			621	725		
S. Slate			725	730		
Sand			730	750		
Red Rock			750	766		
Slate			766	802		
Red Rock			802	815		
Slate			815	829		

(over)

\* Indicates Electric Log tops in the remarks section.

MAR 19 1973

Formation	Color	Hard or Soft	Top Feet $\pm$	Bottom Feet	Oil, Gas or Water	* Remarks
Red Rock			829	845		
Slate - Shells			849	1005		
Sand			1005	1033		
Slate			1033	1060		
Sand			1060	1110		
Slate			1110	1170		
Sand			1170	1193		
Slate			1193	1200		
Sand			1200	1229		
Slate			1229	1237		
Sand			1237	1318		
Slate			1318	1407		
Sand			1407	1432		
Slate			1432	1487		
Sand			1487	1530		
Slate			1530	1703		
Little Lime			- 1703	1723		
Blue Monday Sand			1723	1761		
Big Lime			- 1761	1821		
Big Injun			1821	1900		
Shells			1900	1910		
Squaw			1910	1940		
Shells			1940	1951		
	T.D.			1951'		

RECORDED

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ENGINEERING DEPT.

Date MARCH 6, 19 73

APPROVED CARNEGIE NAT. GAS, Owner

By R. S. Dewey Geologist.  
(Title)



STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES

RECEIVED  
AUG 30 1972

OIL & GAS DIVISION  
DEPT. OF MINES

Oil and Gas Division

OIL AND GAS WELL PERMIT APPLICATION

TO THE DEPARTMENT OF MINES,  
Charleston, W. Va.

DATE August 29, 1972  
Company Carnegie Natural Gas Company  
Address 3904 Main St., Munhall, Pa. 15120  
Farm Leeman Maxwell Acres 1000  
Location (waters) Bluestone Creek  
Well No. 40-1766 Elevation 1123  
District West Union County Doddridge  
Quadrangle Centerpoint S.W.

Surface Owner Mary A. Holland  
Address West Union, W. Va.  
Mineral Owner Leeman Maxwell Heirs  
Address West Union, W. Va.  
Coal Owner No commercial coal  
Address \_\_\_\_\_  
Coal Operator \_\_\_\_\_  
Address \_\_\_\_\_

ALL PROVISIONS BEING IN ACCORDANCE WITH CHAPTER 22,  
OF THE W. VA. CODE, THE LOCATION IS HEREBY APPROVED  
FOR drilling. This permit shall expire if  
operations have not commenced by 12-30-72.

Deputy Director  
Deputy Director - Oil & Gas Division

INSPECTOR TO BE NOTIFIED William Blosser  
Colfax, W.Va. PH: 363-9105

GENTLEMEN:

The undersigned well operator is entitled to drill upon the above named farm or tract of land for oil and gas, having fee title thereto, (or as the case may be) under grant or lease dated March 15 1899 by Leeman and Mary C. Maxwell made to P. H. Gaffney et al and recorded on the 28th day of March 1899, in Doddridge County, Book 13 Page 326  
 NEW WELL \_\_\_\_\_ DRILL DEEPER \_\_\_\_\_ REDRILL \_\_\_\_\_ FRACTURE OR STIMULATE  
\_\_\_\_\_ OIL AND GAS WELL ORIGINALLY DRILLED BEFORE JUNE 5, 1969.

The enclosed plat was prepared by a registered engineer or licensed land surveyor and all coal owners and/or operators have been notified as of the above date.

The above named coal owners and/or operator are hereby notified that any objection they wish to make, or are required to make by Section 3 of the Code, must be received by, or filed with the Department of Mines within ten (10) days. \*

Copies of this notice and the enclosed plat were mailed by registered mail, or delivered to the above named coal operators or coal owners at their above shown respective address \_\_\_\_\_ day \_\_\_\_\_ before, or on the same day with the mailing or delivery of this copy to the Department of Mines at Charleston, West Virginia.

Very truly yours, CARNEGIE NATURAL GAS COMPANY  
(Sign Name) J. W. [Signature]  
Well Operator Div. Supt.  
3904 Main St.  
Street  
Munhall  
City or Town  
Pennsylvania 15120  
State

Address  
of  
Well Operator

\*SECTION 3 . . . . If no objections are filed or found by the Department of mines, within said period of ten days from the receipt of notice and plat by the department of mines, to said proposed location, the department shall forthwith issue to the well operator a permit reciting the filing of such plat, that no objections have been made by the coal operators or found thereto by the department and that the same is approved and the well operator authorized to proceed.

BLANKET BOND

Survey

**THIS IS AN ESTIMATE ONLY  
ACTUAL INFORMATION WILL BE SUBMITTED ON OG-10 UPON COMPLETION**

DEPARTMENT OF MINES

PROPOSED WORK ORDER TO  DRILL \_\_\_\_\_ DEEPEN \_\_\_\_\_ FRACTURE-STIMULATE \_\_\_\_\_

DRILLING CONTRACTOR: (If Known) \_\_\_\_\_ RESPONSIBLE AGENT: \_\_\_\_\_

NAME Glenn L. Haught & Sons NAME W. L. Yoho, Foreman

ADDRESS Smithville, W. Va. 26178 ADDRESS Toll Gate, W. Va.

TELEPHONE 677-2222 TELEPHONE 659-2921

ESTIMATED DEPTH OF COMPLETED WELL: 1900' ROTARY  CABLE TOOLS \_\_\_\_\_

PROPOSED GEOLOGICAL FORMATION: Big Injun

TYPE OF WELL: OIL \_\_\_\_\_ GAS  COMB. \_\_\_\_\_ STORAGE \_\_\_\_\_ DISPOSAL \_\_\_\_\_

RECYCLING \_\_\_\_\_ WATER FLOOD \_\_\_\_\_ OTHER \_\_\_\_\_

TENTATIVE CASING PROGRAM:

CASING AND TUBING SIZE	USED FOR DRILLING	LEFT IN WELL	CEMENT FILL UP OR SACKS - CUBIC FT.
20 - 16			
13 - 10 <u>10.750"</u>	<u>250'</u>	<u>250'</u>	<u>cemented to surface</u>
9 - 5/8			
8 - 5/8			
7	<u>1746'</u>		
5 1/2			
4 1/2	<u>1900'</u>	<u>1900'</u>	<u>600'</u>
3			Perf. Top
2			Perf. Bottom
Liners			Perf. Top
			Perf. Bottom

APPROXIMATE FRESH WATER DEPTHS ? FEET SALT WATER ? FEET

APPROXIMATE COAL DEPTHS No commercial coal.

IS COAL BEING MINED IN THE AREA? \_\_\_\_\_ BY WHOM? \_\_\_\_\_

TO DRILL:

SUBMIT FIVE (5) COPIES OF OG - 1, \$100.00 PERMIT FEE, PERFORMANCE BOND AND PERMANENT COPY OF PLAT.

TO DRILL DEEPER OR REDRILL:

SUBMIT FIVE (5) COPIES OF OG - 1, SHOWING ORIGINAL PERMIT NUMBER AND PERFORMANCE BOND. ON WELLS DRILLED PRIOR TO 1929, A PERMANENT COPY OF THE PLAT AND THE ORIGINAL WELL RECORD MUST ALSO BE SUBMITTED.

TO FRACTURE - STIMULATE:

OIL AND/OR GAS WELL ORIGINALLY DRILLED BEFORE JUNE 5, 1929, FIVE (5) COPIES OG - 1, PERFORMANCE BOND, PERMANENT PLAT AND ORIGINAL WELL RECORD.

OIL AND/OR GAS WELL ORIGINALLY DRILLED ON AND/OR AFTER JUNE 5, 1929, FIVE COPIES OG - 1, SHOWING ORIGINAL PERMIT NUMBER, AND PERFORMANCE BOND.

Required forms must be filed within ninety (90) days of completion for bond release. Inspector to be notified twenty-four (24) hours in advance.

The following waiver must be completed by the coal operator if the permit is to be issued within ten days of receipt thereof.

WAIVER: I the undersigned, Agent for \_\_\_\_\_ Coal Company, Owner or Operator of the coal under this lease have examined and place on our mine maps this proposed well location.

We the \_\_\_\_\_ Coal Company have no objections to said well being drilled at this location, providing operator has complied with all rules and regulations in Articles 4, 5, and 7, Chapter 22 of the West Virginia Code.

For Coal Company

Official Title