



LATITUDE 39° 15'

LONGITUDE 80° 45'

Minimum Error of Closure 1 in 200

Source of Elevation Elev Well No. 1765 = 1203

- 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

Company Carnegie Natural Gas Co.  
 Address Munhall, Penna.  
 Farm Leeman Maxwell  
 Tract \_\_\_\_\_ Acres 2164 Lease No. 6764  
 Well (Farm) No. 608 Serial No. 1  
 Elevation (Spirit Level) 1182 NE  
 Quadrangle 15 Halbrook / Oxford 7 1/2  
 County Doddridge District West Union  
 Surveyor Engineer - [Signature]  
 Surveyor's Registration No. 1227  
 File No. \_\_\_\_\_ Drawing No. \_\_\_\_\_  
 Date July 2, 1975 Scale As noted.

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

**WELL LOCATION MAP**  
FILE NO. DOD-61-FRAC

2423  
+ Denotes location of well on United States Topographic Maps, scale 1 to \_\_\_\_\_ latitude and longitude lines being represented by border lines as shown.  
- Denotes one inch spaces on border line of original tracing.

Straight Fork-Bluestone Creek (133)



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STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES

OIL & GAS DIVISION  
DEPT. OF MINES

Oil and Gas Division

WELL RECORD

Quadrangle Oxford  
Permit No. DOD-61-FRAC

Rotary \_\_\_\_\_ Oil \_\_\_\_\_  
Cable X Gas X  
Recycling \_\_\_\_\_ Comb. \_\_\_\_\_  
Water Flood \_\_\_\_\_ Storage \_\_\_\_\_  
Disposal \_\_\_\_\_ (Kind) \_\_\_\_\_

Company Carnegie Natural Gas Company  
Address 3904 Main Street, Munhall, Pa. 15120  
Farm Leeman Maxwell Acres 2164  
Location (waters) Bluestone  
Well No. 18-608 Elev. 1182  
District West Union County Doddridge  
The surface of tract is owned in fee by Justin M. Henderson  
Address West Union, West Virginia  
Mineral rights are owned by Leeman Maxwell Heirs  
Address West Union West Virginia  
Drilling-Commenced Cleaning Out 5-2-75  
Drilling Completed Cleaning Out 6-19-75  
Initial open flow 15,000 cu. ft. \_\_\_\_\_ bbls.  
Final production 411,000-M cu. ft. per day \_\_\_\_\_ bbls.  
Well open \_\_\_\_\_ hrs. before test 280 RP.

Casing and Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft. (Sks.)
Size			
20-16			
Cond.			
13-10"			
9 5/8			
8 5/8	161	161	
7	1868	1868	
5 1/2			
4 1/2	2601	2601	100
3			
2			
Liners Used			

Well treatment details:

Attach copy of cementing record.

Fractured by Dowell on 8-12-75: Thirty Foot 419 BBLs Water, 12 BBLs Acid and 160 sacks of 20-40 sand.  
Big Injun-557 BBLs of water, 12 BBLs of Acid and 300 sacks of 20-40 Sand.

Coal was encountered at None Feet \_\_\_\_\_ Inches \_\_\_\_\_  
Fresh water \_\_\_\_\_ Feet \_\_\_\_\_ Salt Water \_\_\_\_\_ Feet \_\_\_\_\_  
Producing Sand Big Injun and Thirty Foot Depth 1940'-49' 2566'-80'  
Injun 30 FT

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
Little Dunkard			722	820		
Big Dunkard			885	897		
Gas Sand			1056	1069		
1st Salt Sand			1220	1228		
2nd Salt Sand			1336	1391		Show of gas and oil @ 1360'
3rd Salt Sand			1598	1649		*
4th Salt Sand			1688	1734		Show gas @ 1713
Maxton			1767	1771		*
Little Lime			1809	1831		*
Pencil Cave			1831	1855		*
Big Lime			1855	1916		*
Big Injun			1916	1986		*
Weir			2140	2237		*
Berea			2341	2350		*
30 Foot			2565	2581		*
Total Depth				2600		Gas 2570', 2578'

(over)

\* Indicates Electric Log tops in the remarks section.



STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES

Oil and Gas Division

OIL AND GAS WELL PERMIT APPLICATION

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OIL & GAS DIVISION  
DEPT. OF MINES

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

DATE July 2, 1975  
Company Carnegie Natural Gas Company  
Address 3904 Main St., Munhall, Pa. 15120  
Farm Leeman Maxwell Acres 2164  
Location (waters) Bluestone  
Well No. 18-608 Elevation 1182'  
District West Union County Doddridge  
Quadrangle Holbrook NE

Surface Owner Justine M. Henderson  
Address West Union, W. Va.  
Mineral Owner Leeman Maxwell Heirs  
Address West Union, W. Va.  
Coal Owner No commercial coal  
Address \_\_\_\_\_  
Coal Operator \_\_\_\_\_  
Address \_\_\_\_\_

THIS PERMIT MUST BE POSTED AT THE WELL SITE

provisions being in accordance with Chapter 22  
of the W. Va. Code, the location is hereby approved  
for Fracturing. This permit shall expire if  
operations have not commenced by 11-2-75

Robert A. Todd  
Deputy Director - Oil & Gas Division

INSPECTOR TO BE NOTIFIED Richard J. Morris  
PH: 354-7259 ADDRESS Grantsville, W.Va.

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 4 1899 by Leeman and Mary C. Maxwell made to J. A. Connolly and recorded on the 12th day of June 1899 in Doddridge County, Book 14 Page 327

X NEW WELL DRILL DEEPER REDRILL X FRACTURE OR STIMULATE  
X 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 Street

Street  
Pittsburgh  
City or Town  
Pennsylvania 15120  
State

PLEASE SUBMIT COPIES OF ALL  
GEOPHYSICAL LOGS DIRECTLY TO:

West Virginia Geological and Economic Survey Address  
P. O. Box 879 of  
Morgantown, W. Va. 26505 Well Operator  
AC 304-296-4461

\*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

DOD-61-FRAC. PERMIT NUMBER

47-017

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

PROPOSED WORK ORDER TO \_\_\_\_\_ DRILL \_\_\_\_\_ DEEPEN X FRACTURE-STIMULATE  
 DRILLING CONTRACTOR: (If Known) RESPONSIBLE AGENT:  
 NAME Carnegie Natural Gas Company NAME W. L. Yoho, Foreman  
 ADDRESS 3904 Main St., Marshall, Pa. 15120 ADDRESS Toll Gate, W. Va.  
 TELEPHONE 412-462-7121 TELEPHONE 304-659-2921  
 ESTIMATED DEPTH OF COMPLETED WELL: 2597 ROTARY \_\_\_\_\_ CABLE TOOLS X  
 PROPOSED GEOLOGICAL FORMATION: Gordon Sand  
 TYPE OF WELL: OIL \_\_\_\_\_ GAS X 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"</u>	<u>246</u>	<u>pulled</u>	
9 - 5/8			
8 - 5/8	<u>896</u>	<u>161</u>	
7	<u>1885</u>		
5 1/2			
4 1/2	<u>2597</u>	<u>2597</u>	<u>800</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