



Minimum Error of Closure lin 200'

Source of Elevation U.S.G.S. B.M. 4000' SW on road = 1172'

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.

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

Signed: [Signature]
Squares: N S E W

Map No.

Company CARNEGIE NATURAL GAS CO.
 Address Munhall, Penna.
 Farm Learnan Maxwell
 Tract _____ Acres 2164 Lease No. 6764
 Well (Farm) No. 36 Serial No. 1762
 Elevation (Spirit Level) 1142
 Quadrangle Holbrook NE
 County Doddridge District West Union
 Engineer [Signature]
 Engineer's Registration No. 1227
 File No. _____ Drawing No. _____
 Date May 17, 1972 Scale 1" = 400'

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

WELL LOCATION MAP

FILE NO. DDO - 1681

+ 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.

AUG 10 1972

6-6 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 3

Rotary Oil
Cable _____ Gas
Recycling _____ Comb. _____
Water Flood _____ Storage _____
Disposal _____ (Kind)

Quadrangle Holbrook N. E.

Permit No. Dod-1681

Company Carnegie Natural Gas Company
Address 3904 Main Street, Munhall, Penna.
Farm Leeman Maxwell Acres 2164
Location (waters) Bluestone Creek
Well No. 36-1762 Elev. 1112'
District West Union County Doddridge
The surface of tract is owned in fee by _____

Address _____
Mineral rights are owned by _____
Address _____

Drilling Commenced 9/2/72
Drilling Completed After Fracture 11/30/72
Initial open flow _____ cu. ft. _____ bbls.
Final production 671,000 cu. ft. per day _____ bbls.
Well open _____ hrs. before test 270 RP.

Casing and Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft. (Sks.)
Size 20-16			
Cond. 13-10" 10"	242	242	175 sxs 241'
9 5/8			
8 5/8			
7	1772	1772	
5 1/2			
4 1/2	1920	1920	35 sxs 534'
3			
2			
Liners Used			

Well treatment details: Attach copy of cementing record.
Fractured 11/29/72 by Dowell with 32,000# 20-40 Sand, 559 bbls water & 31 bbls acid.
Perf. 1870 - 1886 with 10 shots 1/2'

Coal was encountered at None Feet _____ Inches _____
Fresh water _____ Feet _____ Salt Water _____ Feet _____
Producing Sand Big Injun Depth 1818 - 1900

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
Red Rock			0	43		
Slate & Shells			43	61		
Red Rock			61	142		
Slate			142	170		
Red Rock			170	211		
Slate & Shells			211	247		
Red Rock			247	360		
Sand			360	432		
Slate			432	557		
Red Rock			557	601		
Slate			601	637		
Slate & Shells			637	658		
Red Rock			658	691		
Slate			691	707		
Red Rock			707	745		
Slate & Shells			745	970		
Sand			970	1000		
Slate & Shells			1000	1019		
Sand			1019	1044		
Slate & Shells			1044	1168		

(over)

* Indicates Electric Log tops in the remarks section.

FEB 8 1973

Formation	Color	Hard or Soft	Top Feet 3	Bottom Feet	Oil, Gas or Water	* Remarks
Hard			1188	1190		
late			1190	1202		
Hard			1202	1230		
State - Shellis			1230	1288		
1st Salt Sand		1st Salt	1488	1562		
2nd Salt Sand		2nd Salt	1562	1616		
State			1616	1677		
Maxon Sand		Maxon	1677	1706		
Little Lime		Little Lime	1706	1728		
Blue Monday		Blue Monday	1728	1736		
Penick Sand			1736	1745		
S.S.		Blue Monday?	1745	1758		
Big Lime		Big Lime	1758	1821		
Big Injun		Big Injun	1821	1903		Now has 1132-1874
Weir		Weir	2053	2252		
Berea		Berea	2257	2448		
Gordon Gray		Gordon Gray	2478	2630		
Gordon Sand		Gordon	2638	2693		
				2514		2514 T.D.
artificial plug bank with Clay, Stone + Cement to 1928' S.S.						plugged back to 1928'

Date January 23 1973

APPROVED CARNEGIE NATURAL GAS COMPANY Owner
 By R. S. Ludwig Geologist
 (Title)



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

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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 July 25, 1972
Company Carnegie Natural Gas Co.
Address 390 1/2 Main St., Munhall, Pa. 15120
Farm Leoman Maxwell Acres 216 1/2
Location (waters) _____
Well No. 36-1762 Elevation 1142
District West Union County Doddridge
Quadrangle Holbrook, NE

Surface Owner Mary A. Holland
Address West Union, W. Va.
Mineral Owner Leoman 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

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 11-26-72.

Robert H. [Signature] / H.S.
Deputy Director - Oil & Gas Division

William Blosser
INSPECTOR TO BE NOTIFIED
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 4 1899 by Leoman 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
 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 Co.
(Sign Name) [Signature]
Well Operator Div. Supt.
390 1/2 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

DOD-1681

PERMIT NUMBER

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

PROPOSED WORK ORDER TO X DRILL _____ DEEPEN _____ FRACTURE-STIMULATE _____
 DRILLING CONTRACTOR: (If Known) _____ RESPONSIBLE AGENT: _____
 NAME _____ NAME W. L. Yoho, Foreman
 ADDRESS _____ ADDRESS Toll Gate, W. Va.
 TELEPHONE _____ TELEPHONE 659-2921
 ESTIMATED DEPTH OF COMPLETED WELL: 1925 ROTARY X CABLE TOOLS _____
 PROPOSED GEOLOGICAL FORMATION: Injun
 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>10.750</u>	<u>20</u>		
9 - 5/8			
8 - 5/8	<u>300</u>	<u>300</u>	<u>cemented to surface</u>
7			
5 1/2			
4 1/2	<u>1925</u>	<u>1925</u>	<u>600</u>
3			Perf. Top
2			Perf. Bottom
Liners			Perf. Top
			Perf. Bottom

APPROXIMATE FRESH WATER DEPTHS 38 FEET 274 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