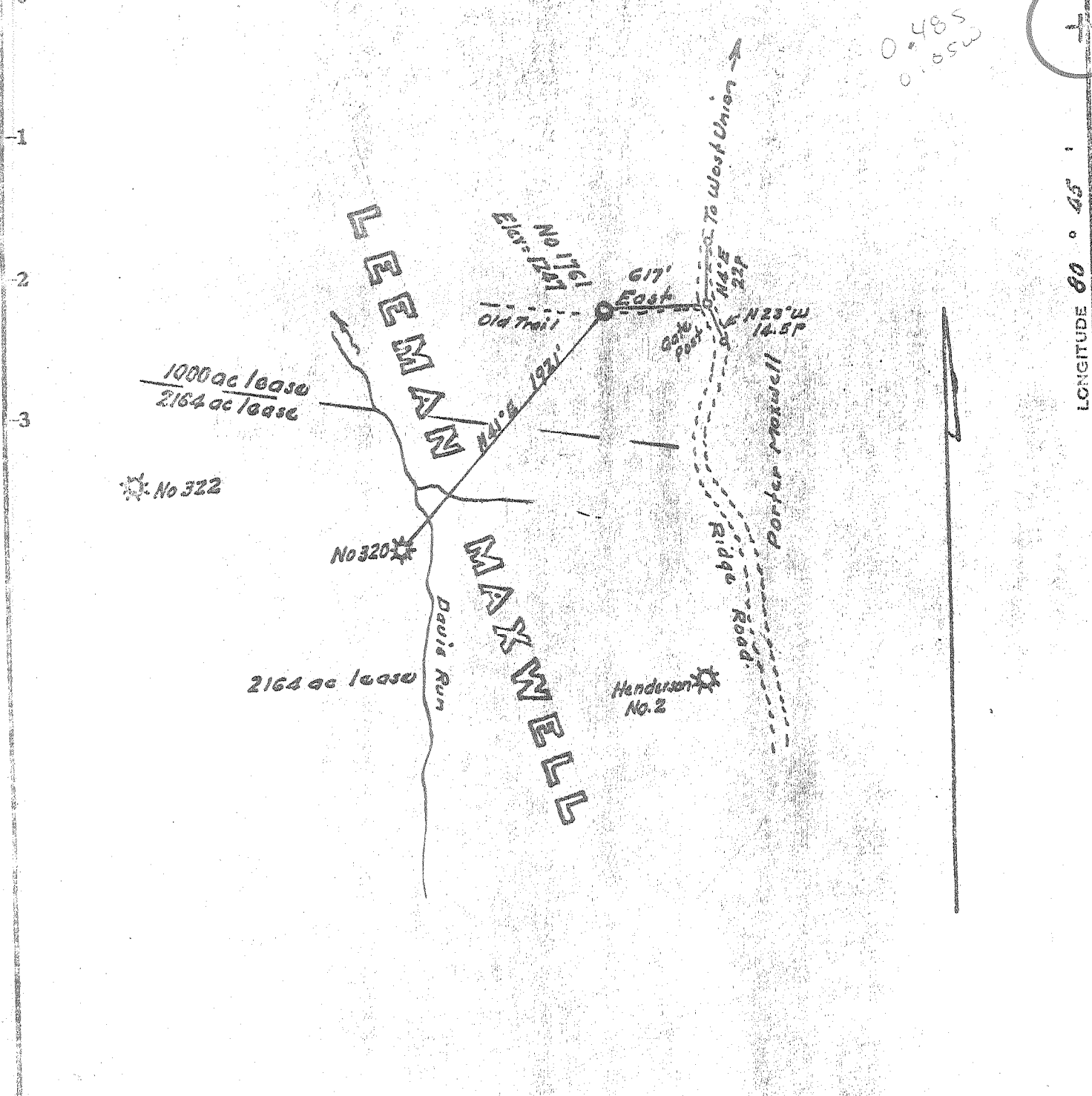


LATITUDE 39 ° 15'



0.485  
0.05W

LONGITUDE 80 ° 45'

Minimum Error of Closure 1 in 200'

Source of Elevation U.S. G.S. B.M. 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 Description
- Abandonment

Signed: *W. H. J.*  
Squares: N S E W

Map No. \_\_\_\_\_

Company CARNEGIE NATURAL GAS CO.  
 Address Murkhill, Penna.  
 Name Leslie Maxwell  
 Tract          Acres 1000 Lease No. 6763  
 Well (Farm) No. 35 Serial No. 1761  
 Elevation (Spirit Level) 1247  
 Quadrangle Holbrook NE  
 County Reddridge District West Union  
 Engineer *W. H. J.*  
 Engineer's Registration No. 1227  
 File No. \_\_\_\_\_ Drawing No. \_\_\_\_\_  
 Date May 17, 1972 Scale 1" = 625'

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

WELL LOCATION MAP

FILE NO. DOD-1680

+ 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.

AUG 10 1972

- Denotes one inch spaces on border line of original tracing.



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OIL & GAS DIVISION  
DEPARTMENT OF MINES

STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES  
Oil and Gas Division

WELL RECORD

Quadrangle Holbrook N. E.

Permit No. DOD-1680

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

Company CARNEGIE NATURAL GAS COMPANY  
Address 3904 Main St., Munhall, Penna. 15120  
Farm Leeman Maxwell Acres. 1000  
Location (waters) Bluestone Creek  
Well No. 35-1761 Elev. 1247'  
District West Union County Doddridge  
The surface of tract is owned in fee by \_\_\_\_\_  
Mary H. Holland  
Address West Union, W. Va. 26456  
Mineral rights are owned by Mary H. Holland  
Address West Union, W. Va.  
Drilling Commenced 8/29/72  
Drilling Completed After Frac. 10/4/72  
Initial open flow 8 1/2 M cu. ft. \_\_\_\_\_ bbls.  
Final production 1,838 M cu. ft. per day \_\_\_\_\_ bbls.  
Well open \_\_\_\_\_ hrs. before test 580 RP.

Casing and Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft. (Sks.)
Size 20-16			
Cond. 13-10"			
<del>9 5/8</del> 10 3/4"	246	246	175 SKS 246'
8 5/8			
7	1885	1885	
5 1/2			
4 1/2	2034	2034	35 SKS 360'
3			
2			
Liners Used			

Well treatment details:

Attach copy of cementing record.

Fractured 10/3/72 by Dowell with 578 bbls water, 1000 gal Acid, 34,000 # 20-40 Sand in Big Injun Sand, 1922' - 2002'. Perf 1960 - 1997' - 12 holes.

Coal was encountered at None Feet \_\_\_\_\_ Inches \_\_\_\_\_  
Fresh water Show water 630' Feet \_\_\_\_\_ Salt Water \_\_\_\_\_ Feet \_\_\_\_\_  
Producing Sand Big Injun Depth 1922 - 2002'

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
Red Rock			0	35		
Sand			35	42		
Red Rock			42	110		
Slate			110	165		
Sand			165	172		
Red Rock			172	211		
Sand & Shells			211	220		
Red Rock			220	225		
Slate			225	330		
Sand & Shells			330	438		
Red Rock			438	453		
Slate & Shells			453	510		
Sand			510	528		
Slate & Shells			528	605		
Red Rock			605	609		
Slate & Shells			609	662		Show water 630'
Red Rock			662	767		
Slate			767	788		
Red Rock			788	794		
Slate			794	864		
Red Rock			864	871		
Slate			871	890		
Red Rock			890	909		

(over)

\* Indicates Electric Log tops in the remarks section.

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
Slate			909	992		
Sand	L. Dunk.		992	1002		
Slate & Shells			1002	1202		
Sand	B. Dunk.		1202	1264		
Black Slate			1264	1293		
Sand			1293	1305		
Slate			1305	1420		
Slate			1420	1428		
Sand	Gas		1428	1439		
Slate			1439	1447		
Slate & Shells			1447	1482		
Slate			1482	1558		
Sand	Salt		1558	1562		
Slate			1562	1574		
Slate & Shells			1574	1582		
Sand	Salt		1582	1605		
Slate & Shells			1605	1621		
Sand	Salt		1621	1650	Show gas	1638
Slate & Shells			1650	1689		
Sand	Maxon		1689	1695		
Slate & Shells			1695	1811		
Lime	Little		1811	1830		
Pencil Cave			1830	1836		
Big Lime			1836	1922		
Big Injun Sand			1922	2002	Gas	1980 - 84 M
Slate & Shells			2002	2356		
Sand	Berea		2356	2370		
Slate & Shells			2370	2572		
Sand	Gordon Stray		2572	2574		
Slate & Shells			2574	2591		
Sand	Gordon		2591	2596		
Slate			2596	2662		
		T.D.		2662		
Plugged back to 2030 with Stone, Clay & Cement.						
		T.D. now		2030		

Date JANUARY 23, 1973

APPROVED CARNEGIE NATURAL GAS COMPANY Owner

By P. B. 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

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

Company Carnegie Natural Gas Company  
Address 3904 Main St., Munhall, Pa. 15120

Mineral Owner Leeman Maxwell Heirs  
Address West Union, W. Va.

Farm Leeman Maxwell Acres 1000  
Location (waters) \_\_\_\_\_

Coal Owner No commercial coal  
Address \_\_\_\_\_

Well No. 35-1761 Elevation 1247  
District West Union County Doddridge

Coal Operator \_\_\_\_\_  
Address \_\_\_\_\_

Quadrangle Holbrook, N.E.

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. Blosser / H.S.  
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, 191899 by Leeman and Mary C. Maxwell made to P. H. Gaffney et al and recorded on the 28th day of March 191899, 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. Lawrence  
Well Operator

Address of Well Operator

3904 Main St., Street  
Munhall, City or Town  
Pennsylvania 15120 State

\*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-1680

PERMIT NUMBER

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

PROPOSED WORK ORDER TO  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: 2000 ROTARY  CABLE TOOLS   
 PROPOSED GEOLOGICAL FORMATION: 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>20</u>		
9 - 5/8			
8 - 5/8	<u>250</u>	<u>250</u>	<u>cemented to surface</u>
7			
5 1/2			
4 1/2	<u>2000</u>	<u>2000</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