



Minimum Error of Closure 1 in 200'

Source of Elevation USGS B.M. on Ridge Road = 1172

Elev. Well 885 = 1196

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	<u>Carnegie Natural Gas Co.</u>
Address	<u>Munhall, Penna</u>
Farm	<u>Lawman Maxwell</u>
Tract	<u>Acres 1000 Lease No. 6767</u>
Well (Farm) No.	<u>34 Serial No. 1760</u>
Elevation (Spirit Level)	<u>1133</u>
Quarterangle	<u>Halbrook NE</u>
County	<u>Radcliffe District West Union</u>
Engineer	<u>[Signature]</u>
Engineer's Registration No.	<u>122</u>
File No.	<u>Drawing No.</u>
Date	<u>May 17, 1972 Scale 1" = 400' 660'</u>

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

WELL LOCATION MAP

FILE NO. 200-1679

+ 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.



RECEIVED

JUN 3 1974

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

OIL & GAS DIVISION
DEPT. OF MINES

Oil and Gas Division

WELL RECORD

Quadrangle HOLBROOK N.F.
Permit No. DOD-1679

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

Company <u>CARNEGIE NATURAL GAS</u>	Casing and Tubing 15120	Used in Drilling	Left in Well	Cement fill up Cu. ft. (Sks.)
Address <u>3904 MAIN STREET, MUNHALL, PA.</u>				
Farm <u>Leeman Maxwell</u> Acres <u>1000</u>				
Location (waters) <u>Bluestone Creek</u>				
Well No. <u>34-1760</u> Elev. <u>1133'</u>				
District <u>West Union</u> County <u>Doddridge</u>				
The surface of tract is owned in fee by <u>Mary A. Holland</u>				
Address <u>West Union, W. Va.</u>				
Mineral rights are owned by <u>Leeman Maxwell Heirs</u>				
Address <u>West Union, W. Va.</u>				
Drilling Commenced <u>8/21/72</u>				
Drilling Completed <u>8/25/72</u>				
Initial open flow <u>760,000</u> cu. ft. _____ bbls.				
Final production <u>3,503,000</u> cu. ft. _____ per day _____ bbls.				
Well open _____ hrs. before test <u>520</u> RP.				

Well treatment details: Well Fractured 1/22/74 by Dowell with 55,000 sand and 799 bbls water

Coal was encountered at None Feet _____ Inches _____
Fresh water 20-40 Feet _____ Salt Water _____ Feet _____
Producing Sand Big Injun Depth 1960-2074

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
Red Rock			Surf.	20		
Sandy Lime			20	60		Water 20-40
Sand			60	121		
Slate Shells			121	260		
Red Rock			260	283		
Slate			283	330		
Red Rock			330	345		
Sand			345	408		
Slate			408	550		
Sand			550	587		
Slate Shells			587	635		
Red Rock			635	660		
Slate Shells			660	863		
Red Rock			863	893		
Slate Shells			893	919		
Red Rock			919	927		
Sandy Shale			927	949		
Black Shale			949	952		
Slate Shells			952	1049		
Red Rock			1049	1075		
Slate Shells			1075	1215		
Sand			1215	1306		
Slate Shells			1306	1331		

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
Black Slate			1331	1337		
Slate Shells			1337	1376		
Black Slate			1376	1382		
Slate Shells			1382	1426		
Slate			1426	1440		
Sandy Slate			1440	1446		
Slate			1446	1492		
Slate			1492	1498		
Slate			1498	1529		
Sand			1529	1539		
Slate			1539	1636		
Sand			1636	1662	1 st. Salt Sand	
Slate			1662	1702		
Sand			1702	1730	2 nd. Salt Sand	
Slate			1730	1775		
Sand			1775	1797	Maxon	
Slate			1797	1826		
Little Lime			1826	1850		
Sand			1850	1855	Gas 1852	Blue Monday
Pencil Cave			1855	1870		
Big Upper Lime			1870	1932		
Sand <u>Injun</u>			1932	2015	<u>Big Injun</u>	
Slate			2015	2034		
Total Depth				2034'		

Date January 25, 19 74

APPROVED CARNegie NATURAL GAS COMPANY, Owner

By R. B. [Signature]
(Title) Geologist



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

RECEIVED

JUL 26 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 July 25, 1972

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 _____

Company Carnegie Natural Gas Co.
Address 3904 Main St., Munhall, Pa. 15120
Farm Leeman Maxwell Acres 1000
Location (waters) _____
Well No. 34-1760 Elevation 1133
District West Union County Doddridge
Quadrangle Holbrook, N.B.

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 15, 1919 by Leeman and Mary C. Maxwell made to P. H. Gaffney et al and recorded on the 28th day of March 191919, 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 Co.
(Sign Name) [Signature]
Well Operator
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

DOD-1679

PERMIT NUMBER

Survey

