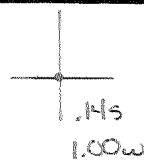


Latitude



Longitude

Topo Location

7.5' Loc. \_\_\_\_\_ 15' Loc. \_\_\_\_\_  
 \_\_\_\_\_ (calc.) \_\_\_\_\_

Company Carnegie

Farm Lacy Baggess #64

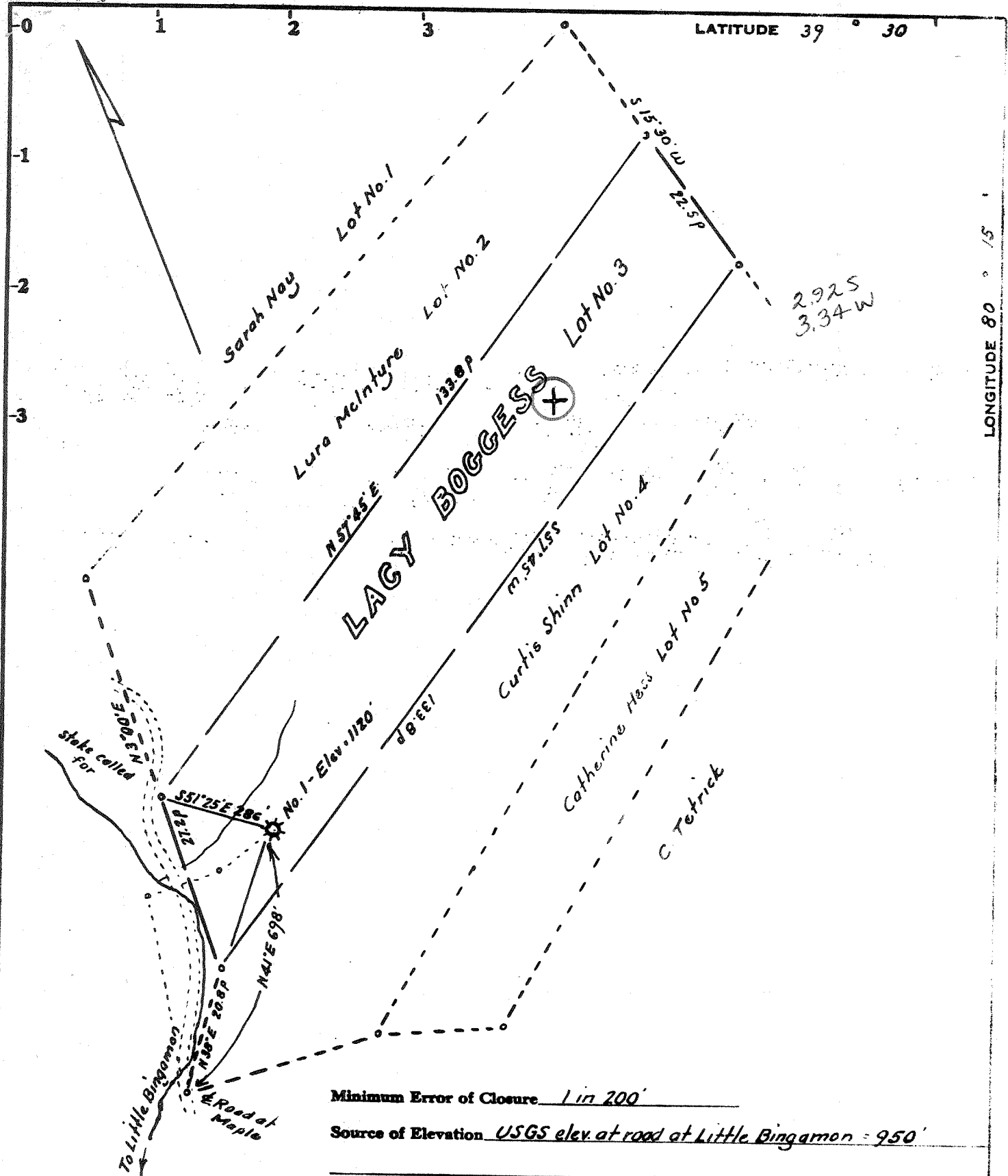
15' Quad \_\_\_\_\_  
(sec.)

7.5' Quad Shinnston

District Lincoln

WELL LOCATION PLAT

County 049 Permit 316



Minimum Error of Closure 1 in 200  
 Source of Elevation USGS elev. at road at Little Binghamton = 950'

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: W. D. B. [Signature]  
 Squares: N S E W

Company CARNEGIE NATURAL GAS CO.  
 Address Murhall, Penna.  
 Farm Lacy Boguess  
 Tract \_\_\_\_\_ Acres 18.08 ac. Lease No. 5868  
 Well (Farm) No. One-64 Serial No. 64  
 Elevation (Spirit Level) 1120  
 Quadrangle Clarksburg NE  
 County Marion District Lincoln  
 Engineer W. D. B. [Signature]  
 Surveyor  
 Surveyor's Registration No. 1227  
 File No. \_\_\_\_\_ Drawing No. \_\_\_\_\_  
 Date March 25, 1975 Scale 1" = 20 p. = 330'

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

WELL LOCATION MAP  
 FILE NO. MAR - 316 - DD

+ 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.

47-049



RECEIVED

MAR 31 1976

STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES  
Oil and Gas Division

OIL & GAS DIVISION  
DEPT. OF MINES

WELL RECORD

Quadrangle Clarksburg NE  
Permit No. MAR-316-DD

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

Company Carnegie Natural Gas Company  
Address 3904 Main St., Munhall, Pa. 15120  
Farm Lacy Boggess Acres 18  
Location (waters) Little Bingamon Run  
Well No. 1-64 Elev. 1120  
District Lincoln County Marion  
The surface of tract is owned in fee by Emily K. Boggess  
Address 433 M-Ela St., Barrington, ILL 60010  
Mineral rights are owned by Emily K. Boggess  
Address 433 M-Ela St., Barrington, ILL 60010  
Drilling <sup>Deeper</sup> Commenced 10/7/75  
Drilling <sup>Deeper</sup> Completed 1/14/76  
Initial open flow 39,430 cu. ft. \_\_\_\_\_ bbls.  
Final production 250,000 M cu. ft. per day \_\_\_\_\_ bbls.  
Well open 8 hrs. before test 650 RP.  
Well treatment details: 16 hrs.

Casing and Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft. (Sks.)
Size 20-16			
Cond. 13-10" 10"	295'	pulled	
9 5/8			
8 5/8	1285'	1285	
7	1634'	1627	
5 1/2			
4 1/2	3780'	3780'	90 sacks
3			
2			
Liners Used			

Attach copy of cementing record.

1st Stage: Perforated 3659-3663, 5 holes; 3711-3715, 5 holes; 3734-3738, 5 holes;  
Fractured: 566 barrels of water, 20,000# 20/40 sand and 5,000# 10/20 sand, using 500 gallons of Regular 15% Acid to breakdown.  
2nd Stage: Perforated 3561-3565, 6 holes; 3573-3577, 8 holes;  
Fractured: 650 barrels of water, 30,000# 20/40 sand and 5,000# 10/20 sand, using 500 gallons of Regular 15% Acid to breakdown.

Coal was encountered at \_\_\_\_\_ Feet \_\_\_\_\_ Inches 250 MCF  
Fresh water \_\_\_\_\_ Feet \_\_\_\_\_ Salt Water \_\_\_\_\_ Feet \_\_\_\_\_  
Producing Sand Balltown Depth 3561-3577; 3659-3738.

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
Started drilling deeper				2682		
No samples recovered from rotary drilling from 2682 to 3107.						
Sand			3107	3150		
Lime			3150	3460		
Slate and Shells			3460	3496		
Sand and Slate			3496	3554		
Lime			3554	3615		
Sand <u>Balltown</u>			3615	3633	Gas - 3630	25,830 cu.ft.
Slate and Shells			3633			
Total Depth				<u>3871</u>		When completed - gas tested 39,430 cu.ft.
<p style="text-align: right;">3871 2682 1189 feet new footage</p>						
<p style="text-align: left;">extends mar 308 disc (3-3)</p>						

(over)

\* Indicates Electric Log tops in the remarks section.



STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES

RECEIVED

JUN 17 1975

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 June 10, 1975

Surface Owner Emily K. Boggess  
Address 433 M-Ela St., Barrington, Ill. 60010

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

Mineral Owner Emily K. Boggess  
Address 433 M-Ela St., Barrington, Ill. 60010

Farm Lacy Boggess Acres 18  
Location (waters) Little Binghamon Run

Coal Owner Mountaineer Coal Corp.  
Address Monongah, W. Va.

Well No. 1-64 Elevation 1120  
District Lincoln County Marion

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

Quadrangle Clarksburg NE

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 deepening. This permit shall expire if  
operations have not commenced by 10-10-75.

Robert L. Jones  
Deputy Director - Oil & Gas Division

INSPECTOR TO BE NOTIFIED Paul Garrett  
PH: 622-3871 ADDRESS Clarksburg W.Va. 26301

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 April 17 19 07 by Lacy & J. W. Boggess made to Carnegie Natural Gas Co. and recorded on the 26th day of April 19 12, in Marion County, Book 186 Page 10

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 Div. Supt.

PLEASE SUBMIT COPIES OF ALL  
GEOPHYSICAL LOGS DIRECTLY TO:

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

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

Mon-316-20 PERMIT NUMBER

47-049

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 Carnegie Natural Gas Company NAME J. W. Sweeney, Div. Supt.  
 ADDRESS 3904 Main St., Monhall, Pa. 15120 ADDRESS Mannington, W. Va. 26582  
 TELEPHONE 412-462-7121 TELEPHONE 304-986-2060  
 ESTIMATED DEPTH OF COMPLETED WELL: 3600 ROTARY \_\_\_\_\_ CABLE TOOLS   
 PROPOSED GEOLOGICAL FORMATION: Balltown  
 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	10" 295'	pulled	
9 - 5/8			
8 - 5/8	1285'	1285'	
7	1634'	1634'	
5 1/2			
4 1/2	3600'	3600'	1000'
3			Perf. Top
2			Perf. Bottom
Liners			Perf. Top
			Perf. Bottom

APPROXIMATE FRESH WATER DEPTHS \_\_\_\_\_ FEET SALT WATER \_\_\_\_\_ FEET  
 APPROXIMATE COAL DEPTHS 170' , 283'  
 IS COAL BEING MINED IN THE AREA? no 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