



FILE NO. \_\_\_\_\_  
 DRAWING NO. \_\_\_\_\_  
 SCALE 1" = 1000'  
 MAXIMUM DEGREE OF ACCURACY 1' IN 200'  
 PROVEN SOURCE OF ELEVATION TOWER, ELEV.=1462'

I THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAT IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS ALL THE INFORMATION REQUIRED BY LAW AND THE REGULATIONS ISSUED AND PRESCRIBED BY THE DEPARTMENT OF MINES.

(SIGNED) David R. Anthony  
 R.P.E. \_\_\_\_\_ L.L.S. 028254E (PA)

PLACE SEAL HERE

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS  
 FORM IV-6 (8-73)

DATE MAY 8, 19 81  
 OPERATOR'S WELL NO. 3-1853  
 API WELL NO. \_\_\_\_\_  
47 103 1235  
 STATE COUNTY PERMIT

STATE OF WEST VIRGINIA  
 DEPARTMENT OF MINES  
 OIL AND GAS DIVISION

WELL TYPE: OIL \_\_\_ GAS X LIQUID INJECTION \_\_\_ WASTE DISPOSAL \_\_\_  
 (IF "GAS,") PRODUCTION X STORAGE \_\_\_ DEEP \_\_\_ SHALLOW X  
 LOCATION ELEVATION 1372 WATER SHED WYATT RUN  
 DISTRICT GRANT COUNTY WETZEL  
 QUADRANGLE PINE GROVE 7.5' Littleton  
 SURFACE OWNER LEWIS WETZEL PUBLIC HUNTING AREA ACREAGE \_\_\_\_\_  
 OIL & GAS ROYALTY OWNER MILLS WETZEL LANDS, INC. LEASE ACREAGE 5000  
 LEASE NO. 3476  
 PROPOSED WORK: DRILL X CONVERT \_\_\_ DRILL DEEPER \_\_\_ REDRILL \_\_\_ FRACTURE OR STIMULATE \_\_\_ PLUG OFF OLD FORMATION \_\_\_ PERFORATE NEW FORMATION \_\_\_ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) \_\_\_\_\_  
 PLUG AND ABANDON \_\_\_ CLEAN OUT AND REPLUG \_\_\_  
 TARGET FORMATION DEVONIAN SHALE ESTIMATED DEPTH 4,500'  
 WELL OPERATOR CARNEGIE NATURAL GAS CO. DESIGNATED AGENT J. C. STEPHENSON, SUPERINTENDENT  
 ADDRESS 3904 MAIN STREET ADDRESS P.O. BOX 387  
MUNHALL, PA., 15120 MANNINGTON, W. VA., 26582



John Mills Well No. 3-1853 - Permit No. 47-103-1235

DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC.

Filled back to 3969' <sup>412 WTR</sup>  
 Perforations: 1st Stage: 3386-3912 - 15 holes. Warren and Fourth Sands  
 2nd Stage: 2954-3212 <sup>30</sup> 17 holes. 30 Foot, 50 Foot, and Berea Sands  
 3rd Stage: 2462-2554 - 26 holes. Big Injun Sand  
 Fractured: August 31, 1981

1ST STAGE  
 500 Gals. HCL 15% Acid  
 20,000# 80/100 Sand  
 40,000# 20/40 Sand  
 479 Bbls. Water

2ND STAGE  
 500 Gals. HCL 15% Acid  
 20,000# 80/100 Sand  
 40,000# 20/40 Sand  
 498 Bbls. Water

3RD STAGE  
 500 Gals. HCL 15% Acid  
 20,000# 80/100 Sand  
 40,000# 20/40 Sand  
 487 Bbls. Water

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all fresh and salt water, coal, oil and gas
Shale	Brown & Gray		0	50	
Sand	Gray		50	138	
Shale	Gray		138	165	
Red Rock	Red		165	175	
Shale	Gray		175	210	
Red Rock	Red		210	215	
Shale	Gray		215	230	
Sand	Gray		230	350	
Red Rock	Red		350	360	
Shale	Gray		360	846	
Sandy Shale	Gray		846	915	
Sand	Gray		915	960	
Sandy Shale.	Gray		960	1070	
Sand	Gray		1070	1090	
Shale	Gray		1090	1680	
Lime	Whitish		1680	1715	
Shale	Black		1715	1722	
Shale	Gray		1722	1970	
Sand	Gray		1970	2020	
Shale	Gray		2020	2045	
Sand	White		2045	2135	
Shale	Black & Gray		2135	2320	
Big Lime	Pinkish White		2320	2415	
Big Injun	White		2415	2580	
Shale	Gray		2580	2630	
Sand	Gray		2630	2655	
Shale	Gray		2655	3190	
Sand	Brown		3190	3210	
Shale	Gray		3210	4290	
Sand	Brown		4290	4310	
Shale	Gray		4310	4512	
Total Depth	Speechley (?)			4512	

(Attach separate sheets as necessary)

CARNEGIE NATURAL GAS COMPANY

Well Operator

By:

*Raymond J. ...*

Date:

2-21-83

Note: Regulation 2.02(i) provides as follows:

"The term 'log' or 'well log' shall mean a systematic detailed geological record of all formations, including coal, encountered in the drilling of a well."



STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES

**RECEIVED**

MAY 27 1981

**Oil and Gas Division**

**OIL AND GAS WELL PERMIT APPLICATION OF MINES**

OIL & GAS DIVISION

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

DATE May 14, 1981

Surface Owner Lewis Wetzel Public Hunting Area Company Carnegie Natural Gas Company  
 Address State of W. Va., Charleston, WV 25305 Address 3904 Main St., Munhall, Pa. 15120  
 Mineral Owner Mills-Wetzel Land, Inc. Farm John Mills Acres 5451  
c/o Eiston Bank & Trust Co. Location (waters) Fishing Creek  
 Address Crawfordville- Indiana 47933 Well No. 3-1853 Elevation 1372  
 Coal Owner not known District Green County Wetzel  
 Address \_\_\_\_\_ Quadrange Pine Grove 7.5  
 Coal Operator none in area  
 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 1-28-82.

INSPECTOR TO BE NOTIFIED Phillip L. Tracy  
 ADDRESS PO Box 173, Middlebourne, WV 26149  
 PHONE 758-4573

*[Signature]*  
 GENTLEMAN, Director - Oil & Gas Division

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 12 ~~1895~~ by John Mills made to Carnegie Natural Gas Co. and recorded on the \_\_\_\_\_ day of \_\_\_\_\_ 19\_\_\_\_, in Wetzel County, Book 47 Page 611  
 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.

PLEASE SUBMIT COPIES OF ALL GEOPHYSICAL LOGS DIRECTLY TO:

WEST VIRGINIA GEOLOGICAL AND ECONOMIC SURVEY  
 P. O. BOX 879  
 MORGANTOWN, WEST VIRGINIA 26505  
 AC-304 - 292-6331

Address of Well Operator

Very truly yours, **CARNEGIE NATURAL GAS COMPANY**  
 (Sign Name) \_\_\_\_\_ Well Operator Div. Supt.  
3904 Main Street 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.

47 - 103 - 1235 PERMIT NUMBER

"I have read and understand the reclamation requirements as set forth in Chapter 22, Article 4, Section 12-b and will carry out the specified requirements."

Signed by *[Signature]*

**BLANKET BOND**

G. Swr

**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 not known NAME J. C. Stephenson, Div. Supt.  
 ADDRESS \_\_\_\_\_ ADDRESS PO Drawer No. 387, Mannington, WV 2658  
 TELEPHONE \_\_\_\_\_ TELEPHONE 304-986-2060  
 ESTIMATED DEPTH OF COMPLETED WELL: 4500 ROTARY  CABLE TOOLS \_\_\_\_\_  
 PROPOSED GEOLOGICAL FORMATION: Devonian Shale  
 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 <b>11-3/4"</b> <b>42#</b>	<b>31'</b>		
9 - 5/8			
8 - 5/8 <b>24#</b>		<b>2250'</b>	<b>To surface</b>
7			
5 1/2			
4 1/2 <b>10.50#</b>		<b>4500'</b>	<b>2000'</b>
3			Perf. Top
2			Perf. Bottom
Liners			Perf. Top
			Perf. Bottom

APPROXIMATE FRESH WATER DEPTHS \_\_\_\_\_ FEET SALT WATER 2000 FEET  
 APPROXIMATE COAL DEPTHS 600  
 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