





STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES

NOV - 8 1979

Oil and Gas Division  
WELL RECORD 2

OIL & GAS DIVISION  
DEPT. OF MINES

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

Quadrangle Centerpoint S.W.

Permit No. 47-017-2440

Company Carnegie Natural Gas  
Address 3904 Main Street, Munhall, PA 15120  
Farm Jones & Blair Acres 300  
Location (waters) \_\_\_\_\_  
Well No. 5-1823 Elev. 938  
District West Union County Doddridge  
The surface of tract is owned in fee by \_\_\_\_\_  
Raymond C. Smith  
Address Smithburg, West VA  
Mineral rights are owned by Union National Bank,  
Trustee for S.A. Smith & Others  
Address Clarksburg, W.Va. 26302  
Drilling Commenced August 3, 1979  
Drilling Completed August 8, 1979  
Initial open flow 76,000 cu. ft. 0 bbls.  
Final production 750,000 cu. ft. per day 0 bbls.  
Well open \_\_\_\_\_ hrs. before test 1200 RP.

Casing and Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft. (Sks.)
Size 20-16			
Cond. 13-10"	28	0	
9 5/8			
8 5/8	1410	1410	320 sks.
7			
5 1/2			
4 1/2	5166	5166	560 sks.
3			
2 1/2"	5033	5033	
Liners Used			

Well treatment details:

Attach copy of cementing record.

Fractured by Dowell on 9/25/79. Alexander 4984-5049 with 500 gel. of acid, 740 bbls of water and 740 sks. of sand. Warren 3090-3162 with 500 gel. of acid, 755 bbls water and 820 sks. of sand.

Coal was encountered at None Feet \_\_\_\_\_ Inches \_\_\_\_\_  
Fresh water \_\_\_\_\_ Feet \_\_\_\_\_ Salt Water \_\_\_\_\_ Feet \_\_\_\_\_  
Producing Sand Warren & Alexander Depth 3090-3162- & 4984-5049

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
Red Rock & Shale			0	45		
Sand			45	70		
Red Rock & Shale			70	100		
Sand			100	115		
Red Rock & Shale			115	150		
Sand			150	210		
Sandy Shale			210	275		
Black Shale			275	285		
Sandy Shale			285	300		
Sandy Lime			300	315		
Black Rock & Shale			315	333		
Sandy Shale			333	975		
Shale			975	978		
Sandy Shale			978	1055		
Shale			1055	1065		
Sandy Shale			1065	1120		
Sand			1120	1180		
Sand & Shale			1180	1360		
Sandy Shale			1360	1455		
Shale			1455	1540		
Sandy Shale			1540	1570		
Shale			1570	1590		
Little Lime			1590	1620		
Big Lime			1620	1680		

(over)

\* Indicates Electric Log tops in the remarks section.

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
Sand			1680	1738		
Sandy Shale			1738	2110		
Shale			2110	2180		
Sandy Shale			2180	2380		
Sand			2380	2395		
Sandy Shale			2395	4500		
Brown Sand			4500	4510		
Sandy Shale			4510	4725		
Benson			4725	4730		
Siltstone & Shale			4730	4965		
Sandy Shale			4965	5080		
Alexander Sand			5080	5100		
Shale			5100	5209		
		Total	5209			

Date November 6, 19 79

APPROVED Carnegie Natural Gas Co., Owner

BY [Signature] Geologist  
(Title)



STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES

JUN -1 1979

Oil and Gas Division

OIL & GAS DIVISION  
DEPT. OF MINES

OIL AND GAS WELL PERMIT APPLICATION

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

DATE May 25, 1979

Surface Owner Raymond C. Smith Company Carnegie Natural Gas Company

Address Smithburg, West Va. Address 3904 Main Street, Munhall, Pa. 15120

Mineral Owner Union National Bank, Trustee for S.A. Smith & Others. Farm James & Blair Acres 300

Address Clarksburg, West Va. 26302 Location (waters) \_\_\_\_\_

Coal Owner \_\_\_\_\_ Well No. 5-1823 Elevation 938'

Address \_\_\_\_\_ District West Union County Doddridge

Coal Operator \_\_\_\_\_ Quadrangle Centerpoint S.W.

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 2-1-80.

*[Signature]*  
Deputy Director - Oil & Gas Division

INSPEC TO BE Mr. Paul Garrett

ADDRESS 321 Beech St. Clarksburg, WV 26301

PHONE Ph: 622-3871

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 February 20, 1902 by E.C. Jones & Ella M. Blair made to Carnegie Natural Gas Company and recorded on the \_\_\_\_\_ day of \_\_\_\_\_ 19\_\_\_\_, in Doddridge County, Book 18 Page 192

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) W. L. Yako Well Operator Div. Supt.

3904 Main Street, Street

Munhall, City or Town

Penna. 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

47-017-2440 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 \_\_\_\_\_

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 S. W. Jack Drilling Company NAME W. L. Yoho, Div. Supt.  
 ADDRESS P.O. Box #118, Buchanan, W.Va. 26201 ADDRESS Toll Gate, West Va. 26112  
 TELEPHONE 304-472-2161 TELEPHONE 304-659-2921  
 ESTIMATED DEPTH OF COMPLETED WELL: 5150' ROTARY  CABLE TOOLS \_\_\_\_\_  
 PROPOSED GEOLOGICAL FORMATION: Alexander  
 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			
<del>13 1/8</del> 11-3/4"	30'		
9 - 5/8			
8 - 5/8	1200'	1200'	to surface
7			
5 1/2			
4 1/2	5150'	5150'	600'
3			Perf. Top
2			Perf. Bottom
Liners			Perf. Top
			Perf. Bottom

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