



FILE NO. \_\_\_\_\_  
 DRAWING NO. \_\_\_\_\_  
 SCALE 1" = 500'  
 MINIMUM DEGREE OF ACCURACY 1' IN 200'  
 PROVEN SOURCE OF ELEVATION C.N.G. WELL 3-304, DOD. 2020 ELEV. = 1147'

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) Duane R. Ashary  
 R.P.E. 027468E L.L.S.

"Authorized for use in West Virginia by Temporary Permit No. 82-7"  
 PLACE SEAL HERE

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS  
 FORM IV-6 (8-78)



DATE FEB. 10, 1982  
 OPERATOR'S WELL NO. 6-1859  
 API WELL NO. 47 017 3105  
 STATE COUNTY PERMIT

STATE OF WEST VIRGINIA  
 DEPARTMENT OF MINES  
 OIL AND GAS DIVISION

WELL TYPE: OIL  GAS  LIQUID INJECTION  WASTE DISPOSAL   
 (IF "GAS,") PRODUCTION  STORAGE  DEEP  SHALLOW   
 LOCATION: ELEVATION 1240' WATER SHED MIDDLE ISLAND CREEK  
 DISTRICT WEST UNION COUNTY DODDRIDGE  
 QUADRANGLE SMITHBURG Centerpoint 15' SW  
 SURFACE OWNER William G. Britton ACREAGE 220.2  
 OIL & GAS ROYALTY OWNER Edwin C. Jones LEASE ACREAGE 300  
 LEASE NO. 4624  
 PROPOSED WORK: DRILL  CONVERT  DRILL DEEPER  REDRILL  FRACTURE OR STIMULATE  PLUS OFF OLD FORMATION  PERFORATE NEW FORMATION  OTHER PHYSICAL CHANGE IN WELL (SPECIFY) \_\_\_\_\_  
 PLUS AND ABANDON  CLEAN OUT AND REPLUG   
 TARGET FORMATION ALEXANDER ESTIMATED DEPTH 5400'  
 WELL OPERATOR CARNEGIE NATURAL GAS CO. DESIGNATED AGENT W.L. YOHO, SUPERINTENDENT  
 ADDRESS 3904 MAIN STREET ADDRESS CARNEGIE NATURAL GAS CO.  
 MUNHALL, PA. 15120 TOLL GATE, W. VA., 26442

6-6 Smithton Hunt Sedalia (99)

RECEIVED  
MAY 25 1983



State of West Virginia  
Department of Mines  
Oil and Gas Division  
DEPT. OF MINES

Date May 18, 1983  
Operator's Well No. 6-1859  
Name Jones & Blair  
API No. 47 - 017 - 3105

JUN 06 1983

WELL OPERATOR'S REPORT  
OF  
DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

WELL TYPE: Oil \_\_\_ / Gas x / Liquid Injection \_\_\_ / Waste Disposal \_\_\_ /  
(If "Gas," Production x / Underground Storage \_\_\_ / Deep \_\_\_ / Shallow x /)

LOCATION: Elevation: 1210' Watershed Middle Island Creek  
District: West Union County Doddridge Quadrangle Smithburg

COMPANY Carnegie Natural Gas Company  
ADDRESS 800 Regis Ave, Pittsburgh, Pa  
DESIGNATED AGENT J. C. Stephenson  
ADDRESS Mannington, WV  
SURFACE OWNER William G. Britton  
ADDRESS Smithburg, WV  
MINERAL RIGHTS OWNER S. A. Smith & Others  
ADDRESS Union National Bank, Trustees For; Clarksburg, WV  
OIL AND GAS INSPECTOR FOR THIS WORK Stephen Casey ADDRESS Jane Lew, WV  
PERMIT ISSUED April 2, 1982  
DRILLING COMMENCED December 8, 1982  
DRILLING COMPLETED December 20, 1982

Casing & Tubing Size	Used in Drilling	Left in Well	Cement fill up Cu. ft.
20-16 Cond.			
11 3/4" <del>12-10K</del>	118'	118'	118'
9 5/8			
8 5/8	1862'	1862'	1862'
7			
5 1/2			
4 1/2		5500'	3100'
3			
2			
Liners used			

IF APPLICABLE: PLUGGING OF DRY HOLE ON CONTINUOUS PROGRESSION FROM DRILLING OR WORKING. VERBAL PERMISSION OBTAINED ON \_\_\_\_\_

GEOLOGICAL TARGET FORMATION Alexander Depth 5337-5431 feet  
Depth of completed well 5536 feet Rotary x / Cable Tools \_\_\_\_\_  
Water strata depth: Fresh 95 feet; Salt \_\_\_\_\_ feet  
Coal seam depths: None Is coal being mined in the area? No

OPEN FLOW DATA  
Producing formation Warren, Elizabeth Riley Alexander Pay zone depth 427-5126 feet  
Gas: Initial open flow 12 Mcf/d Oil: Initial open flow \_\_\_\_\_ Ebl/d  
Final open flow 198 Mcf/d Final open flow \_\_\_\_\_ Ebl/d  
Time of open flow between initial and final tests \_\_\_\_\_ hours  
Static rock pressure \_\_\_\_\_ psig (surface measurement) after \_\_\_\_\_ hours shut in  
(If applicable due to multiple completion--)  
Second producing formation \_\_\_\_\_ Pay zone depth \_\_\_\_\_ feet  
Gas: Initial open flow \_\_\_\_\_ Mcf/d Oil: Initial open flow \_\_\_\_\_ Ebl/d  
Final open flow \_\_\_\_\_ Mcf/d Oil: Final open flow \_\_\_\_\_ Ebl/d  
Time of open flow between initial and final tests \_\_\_\_\_ hours  
Static rock pressure \_\_\_\_\_ psig (surface measurement) after \_\_\_\_\_ hours shut in

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

STAGE	PERFS	SAND (LBS.)	WATER (BBLs.)
1st	<i>Benson?</i> <del>5029-32</del> ; 5384-5426 (12 Holes)	95,000	505
2nd	<i>Warren, Elizabeth?</i> 3427-3535 (12 Holes)	95,000	495

WELL LOG

LOG OF THE WELL

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS
Red Clay			0	5	Including indication of all fresh and salt water, coal, oil and gas
Sand			5	8	
Red Rock			8	15	
Sand			15	22	
Red Rock			22	27	
Sand			27	38	
Red Rock			38	43	
Sand			43	198	
Shale			198	270	
Sand			270	305	
Red Rock & Shale			305	405	
Sand			405	425	
Shale			425	433	
Sand			433	460	
Shale			460	740	
Sand			740	750	
Shale			750	845	
Red Rock			845	860	
Shale			860	903	
Sand			903	920	
Shale			920	940	
Sand			940	978	
Red Rock			978	1020	
Shale			1020	1055	
Sand			1055	1125	
Shale			1125	1145	
Sand			1145	1193	
Shale			1193	1206	
Sand			1206	1223	
Shale			1223	1320	
Sand			1320	1340	
Shale			1340	1350	
Sand			1350	1395	
Shale			1395	1415	
Sand			1415	1533	
Shale			1533	1564	
Sand			1564	1615	
Shale			1615	1742	
Sand			1742	1780	
Shale			1780	1860	

1 1/2"-2" stream of water @ 95'

(Attach separate sheets as necessary)

Carnegie Natural Gas Company  
Well Operator

By: Kenneth G. Duvoy

Date: May 18, 1983

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."

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

JUN 06 1983

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS
					Including indication of all fresh and salt water, coal, oil and gas
Sand			1860	1888	
Shale			1888	1945	
Lime			1945	1952	
Shale			1952	1975	
Lime			1975	2065	
Sand			2065	2105	
Shale			2105	2120	
Sand			2120	2142	
Shale			2147	2271	
Sand			2271	2291	
Shale			2291	2298	
Sand			2298	2415	
Shale			2415	2450	
Sand			2450	2480	
Shale			2480	2510	
Sand			2510	2600	
Shale			2600	3198	
Sand			3198	3211	
Shale			3211	3255	
Sand			3255	3277	
Shale			3277	3335	
Sand			3335	3595	
Shale			3595	4108	
Sand			4108	4119	
Shale			4119	4179	
Sand			4179	4185	
Shale			4185	4205	
Sand			4205	4219	
Shale			4219	4313	
Sand			4313	4320	
Shale			4320	5028	
Sand - <i>Benson</i>			5028	5140	
Shale			5140	5325	
Sand - <i>Alexander</i>			5325	5450	
Shale			5450	5536	

T.D.

5536'

(Attach separate sheets as necessary)

Carnegie Natural Gas Company  
Well Operator

By: *Kenneth H. Dunay*

Date: May 18, 1983

Dodd - 3105

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

APR 2 - 1982

Oil and Gas Division

OIL AND GAS DIVISION  
WV DEPARTMENT OF MINES

OIL AND GAS WELL PERMIT APPLICATION

RECEIVED

JUN - 3 1982

OIL AND GAS DIVISION  
WV DEPARTMENT OF MINES

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

DATE March 3, 1982

Surface Owner William G. Britton

Company Carnegie Natural Gas Company

Address Smithburg, W. Va.

Address 3904 Main St. Minhall, Pa. 15120

Mineral Owner Union National Bank, Trustee for S. A. Smith & Others.

Farm Jones & Blair Acres 220

Address Clarksburg, W. Va. 26302

Location (waters) Middle Island Creek

Coal Owner \_\_\_\_\_

Well No. 6-1859 Elevation 1240'

Address \_\_\_\_\_

District West Union County Doddridge

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

Quadrangle Smithburg

Address \_\_\_\_\_

THIS PERMIT MUST BE POSTED AT THE WELL SITE.

ALL PROVISIONS BEING IN ACCORDANCE WITH CHAPTER 22,

ARTICLE 4 OF THE W. VA. CODE, THE LOCATION IS HEREBY INSPECTOR

APPROVED FOR drilling THIS PERMIT SHALL EXPIRE 2-8-83 TO BE NOTIFIED Stephen Casey

IF OPERATIONS HAVE NOT COMMENCED BY 2-8-83 ADDRESS Jane Lew, W. Va. 26378

BY [Signature] PHONE 304-884-7470

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, 1982 by R. G. Jones & Ella M. Blair made to Carnegie Natural Gas Company and recorded on the \_\_\_\_\_ day of \_\_\_\_\_ 19\_\_\_\_, in Doddridge County, Book 18 Page 492

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

Very truly yours, Carnegie Natural Gas Company  
(Sign Name) W. L. Yabo  
Well Operator  
3904 Main Street,  
Street  
Minhall, Pa. 15120  
City or Town  
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

47-017-3105

PERMIT NUMBER

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 Hugh K. Spencer NAME W. L. Yoho - Div. Supt.  
 ADDRESS West Union, W.Va. 26156 ADDRESS Toil Gate, W.Va. 26142  
 TELEPHONE 873-1602 TELEPHONE 659-2921  
 ESTIMATED DEPTH OF COMPLETED WELL: 5100' 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			
13 - 10 <u>11-3/4"</u>	<u>500'</u>	<u>500'</u>	
9 - 5/8			
8 - 5/8	<u>1850'</u>	<u>1850'</u>	<u>Cemented to surface</u>
7			
5 1/2			
4 1/2	<u>5100'</u>	<u>5100'</u>	<u>2500' to fillup</u>
3			
2			Perf. Top
Liners			Perf. Bottom
			Perf. Top
			Perf. Bottom

APPROXIMATE FRESH WATER DEPTHS 440 FEET SALT WATER 740 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