



FILE NO. \_\_\_\_\_  
 DRAWING NO. \_\_\_\_\_  
 SCALE 1" = 800'  
 MINIMUM DEGREE OF ACCURACY 1:200  
 PROVEN SOURCE OF ELEVATION INTER OF CO. ROADS  
 23 AND 16 ELEV. = 844'

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) Quane R. Dikorne  
 R.P.E. 8993 L.L.S.

PLACE SEAL HERE

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



DATE JUNE 30, 1982  
 OPERATOR'S WELL NO. 3-1873  
 API WELL NO. 47  
 STATE COUNTY PERMIT 017 3129

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 895 WATER SHED SKELTON RUN  
 DISTRICT MCCLELLAN COUNTY DODDRIDGE  
 QUADRANGLE SALEM Centerpoint 15' KC

SURFACE OWNER JOHN D. FISHER ACREAGE 52.48  
 OIL & GAS ROYALTY OWNER PAUL G. LYONS ATTY.-IN-FACT LEASE ACREAGE 190  
 LEASE NO. 3991

PROPOSED WORK: DRILL \_\_\_ 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 ALEXANDER ESTIMATED DEPTH 5500'  
 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

AUG 9 1982



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

Fractured Nov. 1, 1982.

Filled up to 5059'.

Perforations: 4945 - 4949 14 holes.

Fractured: Benson 4828 - 4955.

8.3 Bbls. 15% MSR Acid  
5,000# 80/100 Sand  
35,000# 20/50 Sand  
275 Bbls. 75 Quality Foam

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all fresh and salt water, coal, oil and gas
Top Soil			0	10	
Sand and Shale			10	53	5" Stream water at 52'.
Sand			53	90	
Coal			90	93	
Sand and Shale			93	160	1½" Stream water at 109'.
Coal			160	164	
Sand and Shale			164	187	
Coal			187	191	
Sand and Shale			191	496	
Coal			496	504	
Sand and Shale			504	770	
Shale and Red Rock			770	946	
Sand and Shale			946	1748	1" to 1½" Stream water at 1120'.
Shale			1748	1853	
Sand and Shale			1853	1870	
Little Lime			1876	1884	
Shale			1884	1888	
Big Lime			1888	1977	
Big Injun			1977	2041	
Sand and Shale			2041	3820	
Shale			3820	4054	
Sand and Shale			4054		
Total Depth				5500	Alexander @ TD

(Attach separate sheets as necessary)

CARNEGIE NATURAL GAS Co.

Well Operator

By:

*Roy G. Ludwig, Sr. Geol.*

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."



Date: July 19, 19 82

Lyons Operator's Well No. 3-1873

API Well No. 47 017 3129

State County Permit

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

OIL AND GAS WELL PERMIT APPLICATION

WELL TYPE: Oil \_\_\_\_\_ / Gas X /  
(If "Gas", Production X / Underground storage \_\_\_\_\_ / Deep \_\_\_\_\_ / Shallow X /)

LOCATION: Elevation: 895 Watershed: Skeleton Run  
District: McClellan County: Doddridge Quadrangle: Salem

WELL OPERATOR Carnegie Natural Gas Co. DESIGNATED AGENT J. C. Stephenson  
Address 3904 Main St. Address PO Drawer No. 387  
Munhall, Pa. 15120 Mannington, WV 26582

OIL & GAS ROYALTY OWNER Paul G. Lyons, Atty-in-fact COAL OPERATOR not known  
Address 2134 19th St. Address \_\_\_\_\_  
Cuyahoga Falls, Ohio 44223 NO COMMERCIAL COAL

ACREAGE 190 COAL OWNER(S) WITH DECLARATION ON RECORD:  
SURFACE OWNER John D. Fisher Name \_\_\_\_\_  
Address Rt. #2 Address \_\_\_\_\_  
Salem, WV 26426 Name \_\_\_\_\_  
ACREAGE 52.49 Address \_\_\_\_\_

FIELD SALE (IF MADE) TO:  
Address \_\_\_\_\_

OIL & GAS INSPECTOR TO BE NOTIFIED  
Name Stephen Casey Address \_\_\_\_\_  
Address Rt. #2, Box 232-D \_\_\_\_\_  
Jane Lew, WV 26378 \_\_\_\_\_  
Phone: 304-884-7470 \_\_\_\_\_

The undersigned well operator is entitled to operate for oil or gas purposes at the above location under a deed \_\_\_\_\_ / lease X  
other contract \_\_\_\_\_ / dated Aug. 1, 19 00, to the undersigned well operator from Mary M. Lyons to  
J. T. Inghram

(IF said deed, lease, or other contract has been recorded:  
Recorded on Nov. 21, 19 00, in the office of the Clerk of the County Commission of Doddridge County, West  
Va., in Lease Book 18 at page 44. A permit is requested as follows:

PROPOSED WORK: Drill X / Drill deeper \_\_\_\_\_ / Redrill \_\_\_\_\_ / Fracture or stimulate X /  
Plug off old formation \_\_\_\_\_ / Perforate new formation \_\_\_\_\_ /  
Other physical change in well (specify) \_\_\_\_\_  
\_\_\_\_\_

—planned as shown on the work order on the reverse side hereof.  
The above named coal operator, coal owner(s), and coal lessee are hereby notified that any objection they wish to make or are required to  
make by Code §22-4-3 must be filed with the Department of Mines within fifteen (15) days after the receipt of this Application by the  
Department.  
Copies of this Permit Application and the enclosed plat and reclamation plan have been mailed by registered mail or delivered by hand to  
the above named coal operator, coal owner(s), and coal lessee on or before the day of the mailing or delivery of this Permit Application to  
the Department of Mines at Charleston, West Virginia.

PLEASE SUBMIT COPIES OF ALL  
GEOPHYSICAL LOGS DIRECTLY  
TO:  
WEST VIRGINIA OIL AND GAS  
CONSERVATION COMMIS-  
SION  
1615 WASHINGTON STREET EAST  
CHARLESTON, WV 25311  
TELEPHONE: (304) 348-3092

RECEIVED  
AUG 02 1982  
OIL & GAS DIVISION  
DEPT. OF MINES  
BLANKET BOND

Carnegie Natural Gas Company  
Well Operator  
By James C. Stephenson  
Its Div. Supt.

PROPOSED WORK ORDER

(12-81)

THIS IS AN ESTIMATE ONLY:  
ACTUAL INFORMATION MUST BE SUBMITTED ON FORM IV-35 UPON COMPLETION

DRILLING CONTRACTOR (IF KNOWN) S. W. Jack Drilling Company  
Address PO Box 48  
Buckhannon, WV 26201

GEOLOGICAL TARGET FORMATION, Alexander

Estimated depth of completed well, 5500 feet Rotary X / Cable tools \_\_\_\_\_ /

Approximate water strata depths: Fresh, 150 feet; salt, 1348 feet.

Approximate coal seam depths: \_\_\_\_\_ Is coal being mined in the area? Yes \_\_\_\_\_ / No X /

CASING AND TUBING PROGRAM

CASING OR TUBING TYPE	SPECIFICATIONS					FOOTAGE INTERVALS		CEMENT FILL-UP OR SACKS (Cubic feet)	PACKERS	
	Size	Grade	Weight per ft	New	Used	For drilling	Left in well			
Conductor	16"			X		20			Kinds	
Fresh Water	11/3-4		42	X			200	surface		
Coal									Sizes	
Intermediate										
Production	8-5/8		24	X			1500	400'	Depths set	
Tubing	4-1/2	K-55	10.50	X			5500	3000'		
Liners									Perforations:	
									Top	Bottom

NOTE: Regulation 7.02 of the Department of Mines provides that the original and four copies of Form IV-2 must be filed with the Department, accompanied by (i) a plat in the form prescribed by Regulation 11, (ii) a bond in one of the forms prescribed by Regulation 12, or in lieu thereof the other security allowed by Code § 22-4-2, (iii) Form IV-9, "Reclamation Plan", applicable to the reclamation required by Code § 22-4-12b and Regulation 23, (iv) unless previously paid on the same well, the fee required by Code § 22-4-12a, and (v) if applicable, the consent required by Code § 22-4-8a from the owner of any water well or dwelling within 200 feet of the proposed well.

A separate Form IV-2 shall not be required for fracturing or stimulating a well where fracturing or stimulating is to be part of the work for which a permit is sought and is noted as such on the Form IV-2 filed in connection therewith.

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

APPROVED FOR drilling. THIS PERMIT SHALL EXPIRE

IF OPERATIONS HAVE NOT COMMENCED BY 4-5-83

BY [Signature]

The following waiver must be completed by the coal operator and by any coal owner or coal lessee who has recorded a declaration under Code 22-4-20, if the permit is to be issued within fifteen (15) days of receipt thereof.

WAIVER

The undersigned coal operator \_\_\_\_\_ / owner \_\_\_\_\_ / lessee \_\_\_\_\_ / of the coal under this well location has examined this proposed well location. If a mine map exists which covers the area of the well location, the well location has been added to the mine map. The undersigned has no objection to the work proposed to be done at this location, provided, the well operator has complied with all applicable requirements of the West Virginia Code and the governing regulations.

Date: \_\_\_\_\_, 19 \_\_\_\_\_

By \_\_\_\_\_

Its \_\_\_\_\_