



FILE NO. \_\_\_\_\_  
 DRAWING NO. \_\_\_\_\_  
 SCALE 1" = 1000'  
 MINIMUM DEGREE OF ACCURACY 1 IN 200  
 PROVEN SOURCE OF ELEVATION Well # WOO-177  
Elev. 786

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) Danell R. Brice  
 R.P.E. \_\_\_\_\_ L.L.S. 667

PLACE SEAL HERE

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



DATE \_\_\_\_\_, 19\_\_\_\_  
 OPERATOR'S WELL NO. \_\_\_\_\_  
 API WELL NO. 47-107-1178  
 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 873 WATER SHED OHIO RIVER  
 DISTRICT WILLIAMS COUNTY WOOD  
 QUADRANGLE VALLEY MILLS Martha 15' 00  
 SURFACE OWNER VIOLET HENRIE ACREAGE 145  
 OIL & GAS ROYALTY OWNER RALPH HENRIE LEASE ACREAGE 145  
 LEASE NO. \_\_\_\_\_  
 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 SHALE ESTIMATED DEPTH 4000'  
 WELL OPERATOR ENERGEX OIL AND GAS DESIGNATED AGENT WALTER ALLEN  
 ADDRESS P.O. Box 5306 ADDRESS P.O. Box 5306  
VIENNA, WEST VIRGINIA VIENNA, W. VA 26105

OCT 29 1981



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

42 SHOTS

3416'-3420' 8 SHOTS  
 3443'-3445' 2 SHOTS  
 3449'-3451' 2 SHOTS  
 3456'-3458' 2 SHOTS  
 3467'-3471' 4 SHOTS  
 3487'-3489' 2 SHOTS  
 3508'-3510' 2 SHOTS  
 3517'-3521' 4 SHOTS  
 3523'-3527' 4 SHOTS

3531'-3535' 8 SHOTS  
 3575'-3579' 4 SHOTS

Fractured with 1,000,000 cu. ft. of Nitrogen.

*all in upper Huron*

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 and Shale			0	1500	
Sand			1500	1534	
Shale			1534	1548	
Sand			1548	1588	
Shale			1588	1592	
Sand			1592	1604	
Shale			1604	1674	
Big Injun			1674	1832	
Gray Shale			1832	2120	
Coffee Shale			2120	2156	
• Berea			2156	2162	
Devonian Shale			2162	3886	Gas TD in Huron

(Attach separate sheets as necessary)

Energex Oil and Gas Corp.

Well Operator

By: *Robert E. Kirkbride, President*

Date: May 21, 1984

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

OCT 9 - 1981

Oil and Gas Division

OIL AND GAS DIVISION  
WV DEPARTMENT OF MINES

OIL AND GAS WELL PERMIT APPLICATION

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

DATE October 8, 1981

Surface Owner Violet Henrie

Company Energex Oil & Gas Corporation

Address Rt. #1, Boaz, Williamstown, WV 26187

Address P. O. Box 5306, Vienna, WV 26105

Mineral Owner Ralph W. Henrie

Farm Henrie Acres 145

Address Rt. #1, Belleville, WV 26133

Location (waters) Ohio River

Coal Owner N/A

Well No. #1 Elevation 873'

Address \_\_\_\_\_

District Williams County Wood

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

Quadrangle Valley Mills

Address BE POSTED AT THE WELL SITE

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 6-14-82  
Fred B. Baine  
Deputy Director - Oil & Gas Division

INSPECTOR  
TO BE NOTIFIED K. Paul Goodnight

ADDRESS Smithville, WV

PHONE 477-2455

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 7, 1981 by Energex Oil & Gas Corp. made to Ralph Henrie and recorded on the 5th day of Oct. 1981, in Wood County, Book 762 Page 206

XX 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,  
ENERGEX OIL & GAS CORPORATION  
(Sign Name) Harold B. Baine  
Well Operator

P. O. Box 5306, #1 17th St.  
Street  
Vienna,  
City or Town  
West Virginia 26105  
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

47-107-1178

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 Harold B. Baine

**THIS IS AN ESTIMATE ONLY  
ACTUAL INFORMATION WILL BE SUBMITTED ON OG-10 UPON COMPLETION**

PROPOSED WORK ORDER TO XX DRILL DEEPEN FRACTURE-STIMULATE  
 DRILLING CONTRACTOR: (If Known) Paul Drilling Corporation RESPONSIBLE AGENT: Walter H. Allen  
 NAME Paul Drilling Corporation NAME Walter H. Allen  
 ADDRESS P. O. Box 1365, Parkersburg, WV ADDRESS P.O. Box 5306, Vienna, WV 26105  
 TELEPHONE 304-295-7310 TELEPHONE (304) 295-8501  
 ESTIMATED DEPTH OF COMPLETED WELL: 4000' ROTARY XX CABLE TOOLS \_\_\_\_\_  
 PROPOSED GEOLOGICAL FORMATION: shale  
 TYPE OF WELL: OIL \_\_\_\_\_ GAS \_\_\_\_\_ COMB. XX STORAGE \_\_\_\_\_ DISPOSAL \_\_\_\_\_  
 RECYCLING \_\_\_\_\_ WATER FLOOD \_\_\_\_\_ OTHER \_\_\_\_\_

**TENTATIVE CASING PROGRAM:**

CASING AND TUBING SIZE	USED FOR DRILLING	LEFT IN WELL	CEMENT PILL UP OR SACKS - CUBIC FT.
20 - 16			
13 - 10			
9 - 5/8			
8 - 5/8	250	250	Cemented to surface
7			
5 1/2			
4 1/2		T.D. Est. 4000'	125 sks. <i>Original Rule 150</i>
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