



Date: April 8, 19 82

Operator's Well No. Cornell - 2

API Well No. 47 073 --1070-- 1470

State County Permit

STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES, OIL AND GAS DIVISION  
**OIL AND GAS WELL PERMIT APPLICATION**

(CORRECTED PERMIT NO.)

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

LOCATION: Elevation: 903 Watershed: Cow Creek

District: Jefferson County: Pleasants Quadrangle: Schultz

WELL OPERATOR Energex Oil & Gas Corp. DESIGNATED AGENT Walter Allen

Address P.C. Box 5306  
Vienna, WV 26105

Address P.O. Box 5306  
Vienna, WV 26105

OIL & GAS ROYALTY OWNER W.D. Cornell, Etal

Address Rt. 31, Box 57  
St. Marys, WV

Acreage 35 Ac. & 96P

SURFACE OWNER W.D. Cornell, Etal

Address RT. #1, Box 57  
St. Marys, WV

Acreage 35 Ac. & 96P

FIELD SALE (IF MADE) TO:

Address \_\_\_\_\_

OIL & GAS INSPECTOR TO BE NOTIFIED

Name Robert Lowther

Address General Delivery  
Middlebourne, WV 26140  
PH 758-4764

COAL OPERATOR \_\_\_\_\_

Address \_\_\_\_\_

COAL OWNER(S) WITH DECLARATION ON RECORD

Name \_\_\_\_\_

Address APR 12 1982

OIL AND GAS DIVISION  
WV DEPARTMENT OF MINES

Name \_\_\_\_\_

Address \_\_\_\_\_

COAL LESSEE WITH DECLARATION ON RECORD:

Name \_\_\_\_\_

Address \_\_\_\_\_

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 March 22, 19 82, to the undersigned well operator from W.D. Cornell and James L. Cornell

(IF said deed, lease, or other contract has been recorded:)

Recorded on \_\_\_\_\_, 19\_\_\_\_\_, in the office of the Clerk of the County Commission of \_\_\_\_\_ County, West Va., in \_\_\_\_\_ Book \_\_\_\_\_ at page \_\_\_\_\_. A permit is requested as follows:

PROPOSED WORK: Drill X / Drill deeper \_\_\_\_\_ / Redrill \_\_\_\_\_ / Fracture or stimulate \_\_\_\_\_ / 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 COMMISSION  
1615 WASHINGTON STREET EAST  
CHARLESTON, WV 25311

TELEPHONE: (304) 348-3092

Energex Oil & Gas Corp.

Well Operator

By Danell R Borice  
Its Agent

BLANKET BOND

PROPOSED WORK ORDER

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

DRILLING CONTRACTOR (IF KNOWN) Paul Drilling Corp.  
Address P.O. Box 1841  
Parkersburg, WV 26101

GEOLOGICAL TARGET FORMATION, Berea

Estimated depth of completed well, 2000 feet Rotary X / Cable tools      /

Approximate water strata depths: Fresh, 200 feet; salt, 350 feet.

Approximate coal seam depths: None 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	10 1/2	ST-C	24		X	300	300	To Surface	Kinds
Fresh Water	8-5/8	ST-C	24	X		1100	(1100 if needed)	Fill-up 100'	
Coal									Sizes
Intermediate									
Production	4 1/2	ST-C	9 1/2	X			2000	Fill up above 2nd Cow Run	Depths set
Tubing									
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** 12-26-82 **;**  
**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 file



DATE April 5, 1982  
WELL NO. Cornell - 2  
API NO. 47 - 075 - 1470

State of West Virginia  
Department of Mines  
Oil and Gas Division

CONSTRUCTION AND RECLAMATION PLAN

COMPANY NAME Energex Oil & Gas Corp. DESIGNATED AGENT Walter H. Allen  
Address P. O. Box 5306, Vienna, WV 26105 Address P.O. Box 5306, Vienna, W  
Telephone (304) 295-8501 Telephone (304) 295-8501  
LANDOWNER W. D. Cornell SOIL CONS. DISTRICT Upper Ohio  
Revegetation to be carried out by Energex Oil and Gas Corporation (Age \_\_\_\_\_)

This plan has been reviewed by Super. Div. SCD. All corrections  
and additions become a part of this plan: 4/7/82  
(Date)  
Ronette R. Mason  
(SCD Agent)

ACCESS ROAD		LOCATION
Structure	<u>Culvert 12" min.</u> (A)	Structure _____
Spacing	<u>If Necessary 300'-200'</u>	Material _____
Page Ref. Manual	<u>2-7</u>	Page Ref. Manual _____
Structure	<u>Stone</u> (B)	Structure _____
Spacing	<u>If Necessary</u>	Material _____
Page Ref. Manual	_____	Page Ref. Manual _____
Structure	_____ (C)	Structure _____
Spacing	_____	Material _____
Page Ref. Manual	_____	Page Ref. Manual _____

RECEIVED

APR 12 1982  
OIL AND GAS DIVISION  
WV DEPARTMENT OF MINES

SKETCH  
SEE

All structures should be inspected regularly and repaired if necessary. All commercial timber is to be cut and stacked and all brush and small timber to be cut and removed from the site before dirt work begins.

REVEGETATION

Treatment Area I		Treatment Area II	
Lime	_____ Tons/acre	Lime	_____ Tons/acre
or correct to pH	<u>6.5</u>	or correct to pH	_____
Fertilizer	<u>500</u> lbs/acre	Fertilizer	_____ lbs/acre
	(10-20-20 or equivalent)		(10-20-20 or equivalent)
Mulch	<u>Hay or Straw 2</u> Tons/acre	Mulch	_____ Tons/acre
Seed*	<u>Ry #31 Fescue 40</u> lbs/acre	Seed*	_____ lbs/acre
	<u>Redtop 8</u> lbs/acre		_____ lbs/acre
	_____ lbs/acre		_____ lbs/acre

\*Inoculate all legumes such as vetch, trefoil and clovers with the proper bacterium. Inoculate with 3X recommended amount.

PLAN PREPARED BY Danell R. Boxie

ADDRESS P. O. Box 5306  
Vienna, WV 26105

PHONE NO. (304) 295-8501

NOTES: Please request landowners' cooperation to protect new seedling for one growing season. Attach separate sheets as supplementary for comments.



RECEIVED

APR 18 1984

OIL & GAS DIVISION  
DEPT. OF MINES



IV-35  
(Rev 8-81)

State of West Virginia  
Department of Mines  
Oil and Gas Division

Date March 16, 1984  
Operator's Well No. EN-731470  
Farm W. D. Cornell #2  
API No. 47 - 073 - 1470

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

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

LOCATION: Elevation: 903 Watershed Cow Creek  
District: Jefferson County Pleasants Quadrangle Shultz

COMPANY Energex Oil & Gas Corporation

ADDRESS PO Box 905, Marietta, Ohio

DESIGNATED AGENT Sharon A. Barker

ADDRESS PO Box 46, Williamstown, WV

SURFACE OWNER W. D. Cornell, et al

ADDRESS Rt 31, Box 57, St. Marys, WV

MINERAL RIGHTS OWNER same as surface

ADDRESS   

OIL AND GAS INSPECTOR FOR THIS WORK Robert

Lowther ADDRESS Middlebourne, WV

PERMIT ISSUED April 12, 1982

DRILLING COMMENCED April 12, 1982

DRILLING COMPLETED April 16, 1982

IF APPLICABLE: PLUGGING OF DRY HOLE ON  
CONTINUOUS PROGRESSION FROM DRILLING OR  
REWORKING. VERBAL PERMISSION OBTAINED  
ON not applicable

Casing & Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft.
Size 20-16 Cond.			
13-10"			
9 5/8			
8 5/8			
7	1012'	1012'	to surface
5 1/2			
4 1/2	1815'	1815'	800' fill
3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION Berea Depth 1815 feet

Depth of completed well 1815 feet Rotary X / Cable Tools   

Water strata depth: Fresh 80 feet; Salt 1056 feet

Coal seam depths:    Is coal being mined in the area? No

OPEN FLOW DATA

Producing formation Big Injun Pay zone depth 1666 feet

Gas: Initial open flow 50 Mcf/d Oil: Initial open flow    Bbl/d

Final open flow 10 Mcf/d Final open flow    Bbl/d

Time of open flow between initial and final tests 4 hours

Static rock pressure 560 psig (surface measurement) after 72 hours shut in

(If applicable due to multiple completion--)

Second producing formation N/A Pay zone depth    feet

Gas: Initial open flow    Mcf/d Oil: Initial open flow    Bbl/d

Final open flow    Mcf/d Oil: Final open flow    Bbl/d

Time of open flow between initial and final tests    hours

Static rock pressure    psig (surface measurement) after    hours shut in

(Continue on reverse side)

PLEASANTS - 1470

RECEIVED

OIL & GAS DIVISION  
WEST OF MINNESOTA

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

- 11 shots 1666' - 1671'.
- Fractured using 125 gal 15% Hcl acid and 41,500 lb. 20/40 sand in gelled water system.

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'	1056'	
1st salt sand			1056'	1210'	
shale			1210'	1226'	
2nd salt sand			1226'	1258'	
shale			1258'	1278'	
3rd salt sand			1278'	1310'	
shale			1310'	1500'	
Maxon			1500'	1508'	
shale			1508'	1544'	
lower Maxon			1544'	1562'	
shale			1562'	1574'	
lime			1574'	1586'	
shale			1586'	1593'	
Keener			1593'	1621'	
Big Injun			1621'	1706'	water
shale			1706'	1727'	
Squaw			1727'	1737'	
shale			1737'	1815'	TD

(Attach separate sheets as necessary)

Energex Oil & Gas Corporation  
Well Operator

By: Ted R. Gerber Sec & Treas

Date: 3-23-87

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 sand, encountered in the drilling of a well."







1V-20  
Obverse  
1-84



**RECEIVED**  
MAY 9 - 1984  
OIL & GAS DIVISION  
DEPT. OF MINES

**State of West Virginia**  
**Department of Mines**  
**Oil and Gas Division**  
**Charleston 25305**

**FINAL INSPECTION REPORT**  
**INSPECTORS COMPLIANCE REPORT**  
May 1, 1984

COMPANY Energex Oil & Gas Corporation PERMIT NO 073-1470  
P. O. Box 905 FARM & WELL NO W. D. Cornell #2  
Marietta, Ohio 45750 DIST. & COUNTY Jefferson/Pleasants

RULE	DESCRIPTION	IN COMPLIANCE	
		YES	NO
23.06	Notification Prior to Starting Work	✓	
25.04	Prepared before Drilling to Prevent Waste	✓	
25.03	High-Pressure Drilling	✓	
16.01	Required Permits at Wellsite	✓	
15.03	Adequate Fresh Water Casing	✓	
15.02	Adequate Coal Casing		
15.01	Adequate Production Casing	✓	
15.04	Adequate Cement Strength	✓	
15.05	Cement Type	✓	
23.02	Maintained Access Roads	✓	
25.01	Necessary Equipment to Prevent Waste	✓	
23.04	Reclaimed Drilling Pits	✓	
23.05	No Surface or Underground Pollution	✓	
23.07	Requirements for Production & Gathering Pipelines	✓	
16.01	Well Records on Site	✓	
16.02	Well Records Filed	✓	
7.05	Identification Markings	✓	

I HAVE INSPECTED THE ABOVE CAPTIONED WELL AND RECOMMEND THAT IT BE RELEASED:

SIGNED Robert H. Lowther  
DATE May 7, 1984

Your well record was received and reclamation requirements approved. In accordance with Chapter 22, Article 4, Section 2, the above well will remain under bond coverage for the life of the well.

T. L. ...  
Administrator-Oil & Gas Division

May 30, 1984  
DATE



State of West Virginia  
 Department of Mines  
 Oil and Gas Division  
 Charleston 25305

WALTER N. MILLER  
 DIRECTOR

THEODORE M. STREIT  
 ADMINISTRATOR

IN THE MATTER OF )  
 PERMIT DENIAL AS )  
 PROVIDED IN W. VA. )  
 CODE 22-4-1(k)(i) )

CAUSE NO. 40-D

ORDER NO. 2

REPORT OF THE OFFICE

Pursuant to the powers of the administrator in denying permits, under 22-4-1(k)(i) the office has issued the following order:

FINDINGS OF FACT

The following violations have been abated this date for Energex Oil & Gas Corp. :

47-073-1458	Reclamation	7-8-83	Abatement Date
47-073-1470	Reclamation	7-8-83	Abatement Date ✓
47-073-1471	Reclamation	7-8-83	Abatement Date
47-073-1510	Reclamation	7-8-83	Abatement Date
47-073-1532	Reclamation	7-8-83	Abatement Date

CONCLUSION OF LAW

The Office of Oil and Gas of the Department of Mines has authority to issue Orders to implement 22-4-et. seq. of the Code as outlined in 22-4-1g through 22-4-1k of the Code.

ORDER

Wherefore, it is hereby ordered that order Number 1 of this Cause is rescinded and permits may be issued again.

Entered in Charleston, West Virginia, this 18th day of April, 1984.

IN THE NAME OF THE STATE OF WEST VIRGINIA:

OFFICE OF OIL AND GAS  
 OF THE DEPARTMENT OF MINES  
 OF THE STATE OF WEST VIRGINIA

By: T M Streit  
 Theodore M. Streit, Administrator

CM

IV-27  
11/23/81



STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES

Date: July 1 1983  
Well No: 2  
API NO: 47-073 1470  
State County Permit

### Oil and Gas Division NOTICE OF VIOLATION

WELL TYPE: Oil \_\_\_ / Gas \_\_\_ Liquid Injection \_\_\_ / Waste Disposal \_\_\_ /  
Of "Gas" - Production \_\_\_ / Storage \_\_\_ / Deep \_\_\_ / Shallow ✓ /

LOCATION: Elevation: 903 Watershed: Cow Creek  
District: Jefferson County: Pleasants Quadrangle: Lehully

WELL OPERATOR Energy Services & Gas DESIGNATED AGENT Darrell Boice  
Address 105 Maple St Address P.O. Box 5306  
Marion, W. Va. 26105 Vienna, W. Va. 26105

The above well is being posted this 1 day of July, 1983, for a violation of Code 22-4-12B and/or Regulation \_\_\_\_\_, set forth in detail as follows:

(USE REVERSE SIDE OF THIS NOTICE IF NECESSARY)

*Failure to Re Claim well site within 6 months after completion of Drilling*

**RECEIVED**  
JUL -5 1983

OIL & GAS DIVISION  
DEPT. OF MINES

A copy of this notice has been posted at the well site and sent by certified or registered mail to the indicated well operator or his designated agent.

You are hereby granted until July 8, 1983, to abate this violation.

Failure to abate the violation may result in action by the Department under Code 22-4-17 or Code 22-4-18.

Robert A. Lawther  
Oil and Gas Inspector

Address Middlebourne  
W. Va. 26149

Telephone: 758-4764

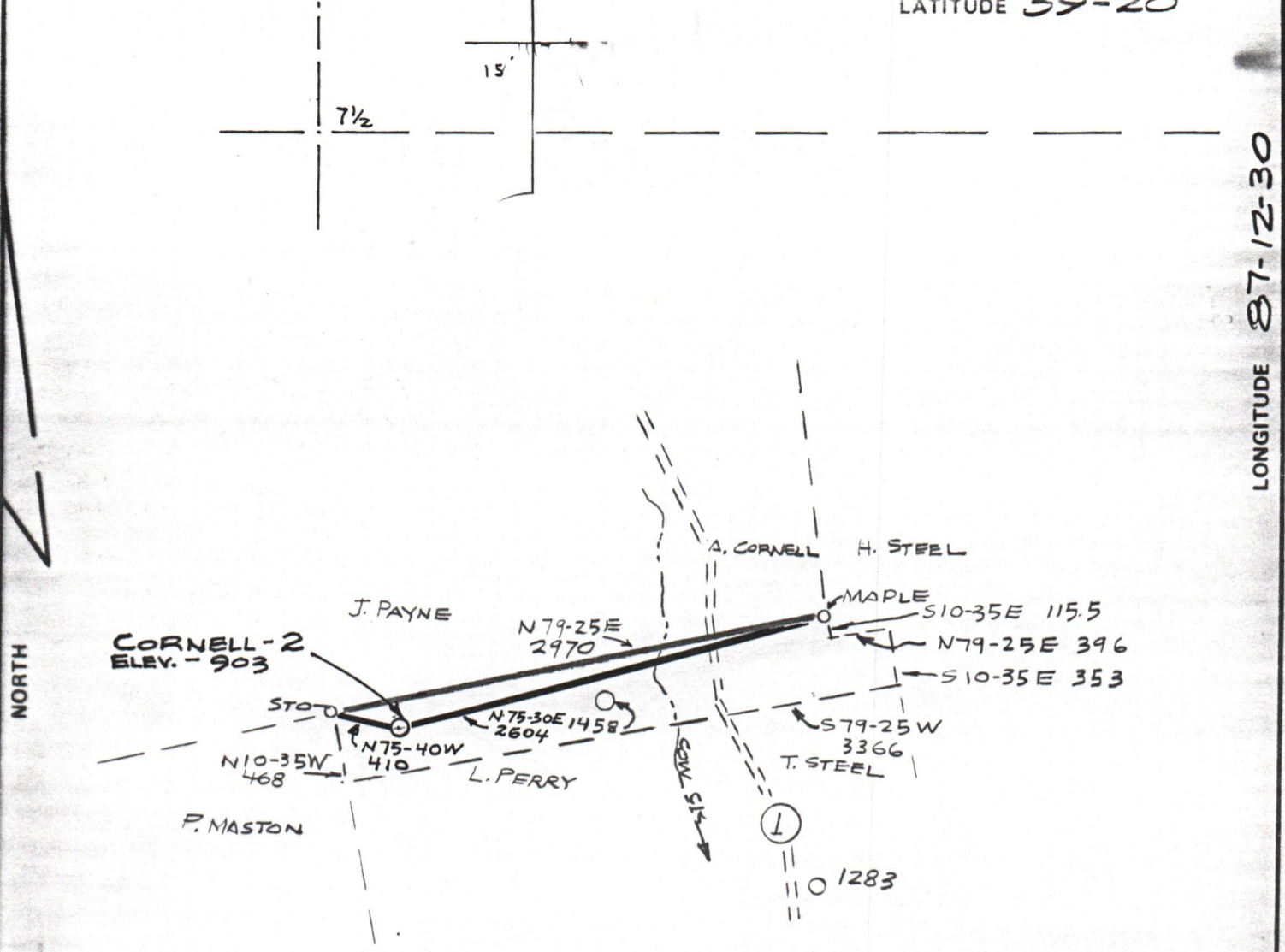


M. J. 4/13/82

11720

LATITUDE 39-20

LONGITUDE 87-12-30



NOTE - WELLS WITHIN 1200' RADIUS SHOWN

FILE NO. \_\_\_\_\_  
 DRAWING NO. \_\_\_\_\_  
 SCALE 1" = 1000'  
 MINIMUM DEGREE OF ACCURACY 1 IN 200  
 PROVEN SOURCE OF ELEVATION ELEV. 714  
 INTERS. OF ROADS \_\_\_\_\_

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) Daniel R Boico  
 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 APR 6, 1982  
 OPERATOR'S WELL NO. CORNELL-2  
 API WELL NO. \_\_\_\_\_  
47 - 073 - 1470  
 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 903 WATER SHED COW CREEK  
 DISTRICT JEFFERSON COUNTY PEASANTS  
 QUADRANGLE SCHULTZ 7 1/2  
 SURFACE OWNER W. D. CORNELL ACREAGE 35.6  
 OIL & GAS ROYALTY OWNER W. D. CORNELL LEASE ACREAGE 35.6  
 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 BERA ESTIMATED DEPTH 2000'  
 WELL OPERATOR ENERGEX OIL & GAS DESIGNATED AGENT WALTER H. ALLEN  
 ADDRESS P.O. Box 5306 ADDRESS P.O. Box 5306  
VIENNA, W. VA 26105 VIENNA, W. VA 26105