



1) Date: January 19, 19 84  
 2) Operator's Well No. 4 - 1983  
 3) API Well No. 47 - 001 - 2028  
 State County Permit

STATE OF WEST VIRGINIA  
 DEPARTMENT OF MINES, OIL AND GAS DIVISION  
 APPLICATION FOR A WELL WORK PERMIT

- 4) WELL TYPE: A Oil        / Gas X /  
 B (If "Gas", Production X / Underground storage        / Deep        / Shallow X /)
- 5) LOCATION: Elevation: 1293' Watershed: Simpson Creek  
 District: Pleasant County: Barbour Quadrangle: Philippi
- 6) WELL OPERATOR Union Drilling, Inc. 7) DESIGNATED AGENT Joseph C. Vanzant, Jr.  
 Address Post Office Drawer 40 Address Post Office Drawer 40  
Buckhannon, WV 26201 Buckhannon, WV 26201
- 8) OIL & GAS INSPECTOR TO BE NOTIFIED 9) DRILLING CONTRACTOR:  
 Name Phillip Tracy Name Union Drilling, Inc.  
 Address Forest Festival Terrace, Apt. 24 Address Post Office Drawer 40  
Elkins, WV 26241 Buckhannon, WV 26201
- 10) PROPOSED WELL WORK: Drill X / Drill deeper        / Redrill        / Stimulate X /  
 Plug off old formation        / Perforate new formation        /  
 Other physical change in well (specify)
- 11) GEOLOGICAL TARGET FORMATION, Benson
- 12) Estimated depth of completed well, 4000 feet  
 13) Approximate strata depths: Fresh, ? feet; salt, ? feet.  
 14) Approximate coal seam depths: ? Is coal being mined in the area? Yes        / No

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OIL & GAS DIVISION  
 DEPT. OF MINES

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	11-3/4		32		X	30'	30'		Kinds
Fresh water									
Coal									Sizes
Intermediate	8-5/8		23		X	1000'	1000'	210 sacks	NEAT
Production	4-1/2 J		10 1/2	X		4000'	4000'	800 sacks or	Depths set
Tubing								as required	by rule 15.01
Liners									Perforations:
									Top Bottom

OFFICE USE ONLY  
 DRILLING PERMIT

Permit number 47-001-2028 Date February 8, 1984 19

This permit covering the well operator and well location shown below is evidence of permission granted to drill in accordance with the pertinent legal requirements subject to the conditions contained herein and on the reverse hereof. **Notification must be given to the District Oil and Gas Inspector, (Refer to No. 8) Prior to the construction of roads, locations and pits for any permitted work.** In addition, the well operator or his contractor shall notify the proper district oil and gas inspector 24 hours before actual permitted work has commenced.)

The permitted work is as described in the Notice and Application, plat, and reclamation plan, subject to any modifications and conditions specified on the reverse hereof.

Permit expires February 8, 1986 unless well work is commenced prior to that date and prosecuted with due diligence.

Bond: <b>BLANKET</b>	Agent: <u>ls</u>	Plat: <u>MW</u>	Casing: <u>MW</u>	Fee: <u>013-366</u>
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T. R. P. L.  
 Administrator, Office of Oil and Gas

NOTE: Keep one copy of this permit posted at the drilling location.



STATE OF WEST VIRGINIA

OFFICE USE ONLY

PERMIT MODIFICATIONS AND CONDITIONS (IF ANY) TO THE PROPOSED WELL WORK

1) WELL LOCATION: B (H) Gas, Production, Underground storage, Deep, Shallow, X

2) WELL OPERATOR: WEST VIRGINIA GAS COMPANY

3) DESIGNATED AGENT: WEST VIRGINIA GAS COMPANY

4) DRILLING CONTRACTOR: WEST VIRGINIA GAS COMPANY

5) PROPOSED WELL WORK: Drill, Plug old formation, Pictorial new formation

6) GEOLOGICAL TARGET FORMATION: COAL

7) ESTIMATED DEPTH OF COMPLETED WELL: 301 feet

8) APPROXIMATE UNDEVELOPED TECH: ? feet

9) APPROXIMATE COAL STAIN DEPTH: ? feet

10) CASING AND RUBING PROGRAM: ?

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OIL & GAS DIVISION

Casing or Tubing Type	Size	Length	Weight	Perforations		Foot Casing	Interval	Feet in Well	Element (Casing Test)	Packers
				Perforations	Weight					
Production	11-3/4"	32'	32'					301'		
Intermediate	8-1/2"	32'	32'					1000'		

OFFICE USE ONLY

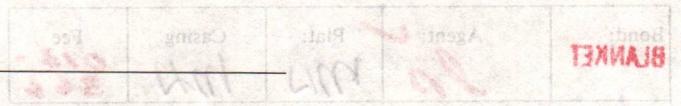
This part of Form IV-2(b) is to record the dates of certain occurrences and any follow-up inspections.

	Date	Date(s)
Application received		
Well work started		
Completion of the drilling process		
Well Record received		
Reclamation completed		

OTHER INSPECTIONS

Reason: \_\_\_\_\_

Reason: \_\_\_\_\_



1) Date: January 19, 1984  
2) Operator's Well No. 4 - 1983  
3) API Well No. 47-001-2028  
State County Permit

STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES, OFFICE OF OIL & GAS

NOTICE OF APPLICATION FOR A WELL WORK PERMIT

4) SURFACE OWNER(S) OF RECORD TO BE SERVED

(i) Name Laco B. Corder  
Address Route 2  
Flemington, WV 26347

(ii) Name  
Address

(iii) Name  
Address

5(i) COAL OPERATOR <sup>OWNER</sup> Consolidation Coal Company  
Address Post Office Box 1632  
Fairmont, WV 26554

5(ii) COAL OWNER(S) WITH DECLARATION ON RECORD:  
Name Royal Land Company  
Address 455 Race Track Road  
Meadow Lands, PA 15346

Name Hillman Coal and Coke Company  
Address Post Office Box 189  
Bridgeport, WV 26330

5(iii) COAL LESSEE WITH DECLARATION ON RECORD:  
Name Kitt Energy Corporation  
Address Route 3, Box 146  
Philippi, WV 26416

TO THE PERSON(S) NAMED ABOVE: You should have received this Form and the following documents:

- (1) The Application for a Well Work Permit on Form IV-2(B) (or Form IV-4 if the well is to be plugged, which sets out the parties involved in the drilling or other work, and describes the well and its location and, if applicable, the proposed casing and cementing program;
- (2) The plat (surveyor's map) showing the well location on Form IV-6; and
- (3) The Construction and Reclamation Plan on Form IV-9 (unless the well work is only to plug a well), which sets out the plan for erosion and sediment control and for reclamation for the site and access road.

THE REASON YOU RECEIVED THESE DOCUMENTS IS THAT YOU HAVE RIGHTS REGARDING THE APPLICATION WHICH ARE SUMMARIZED IN THE "INSTRUCTIONS" ON THE REVERSE SIDE OF THE COPY OF THE APPLICATION (FORM IV-2(B) OR FORM 4, DESIGNATED FOR YOU. HOWEVER, YOU ARE NOT REQUIRED TO TAKE ANY ACTION AT ALL.

Take notice that under Chapter 22 of the West Virginia Code, the undersigned well operator proposes to file or has filed this Notice and Application and accompanying documents for a Well Work Permit with the Administrator of the Office of Oil and Gas, West Virginia Department of Mines, with respect to a well at the location described on attached Application and depicted on attached Form IV-6. Copies of this Notice, the Application, the plat, and the Construction and Reclamation Plan have been mailed by registered or certified mail or delivered by hand to the person(s) named above (or by publication in certain circumstances) on or before the day of mailing or delivery to the Administrator.

6) EXTRACTION RIGHTS

Check and provide one of the following:

- Included is the lease or leases or other continuing contract or contracts by which I hold the right to extract oil or gas.
- The requirement of Code 22-4-1-(c) (1) through (4). (See reverse side for specifics.)

7) ROYALTY PROVISIONS

Is the right to extract, produce or market the oil or gas based upon a lease or leases or other contract or contracts providing for flat well royalty or any similar provision for compensation to the owner of the oil or gas in place which is not inherently related to the volume of oil or gas so extracted, produced or marketed? Yes No

If the answer above is No, nothing additional is needed. If the answer is Yes, you may use Affidavit Form IV-60.

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OIL & GAS DIVISION  
DEPT. OF MINES

See the reverse side for line item instructions, and for instructions concerning the required copies of the Notice and Application, plat, and Construction and Reclamation Plan.

The truth of the information on the Notice and Application is verified and sworn to and the Notice is signed on behalf of the Well Operator in my County and State by

Joseph C. Pettey

this 19 day of January, 1984.

My commission expires 3-19, 1991.

Notary Public, Upshur County,  
State of West Virginia

WELL

OPERATOR Union Drilling, Inc.

By Joseph C. Pettey  
Its Vice President of Production  
Address Post Office Drawer 40  
Buckhannon, WV 26201  
Telephone 304-472-4610

I N S T R U C T I O N S T O A P P L I C A N T

CONCERNING THE LINE ITEMS:

- 1) Date of Notice.
- 2) Your well name and number.
- 3) To be filled out by the Office of Oil & Gas.
- 4) & 5) Use separate sheet if necessary.
- 4) Surface owner(s) of record to be served with Notice and Application. However, see also Code § 22-4-1b(b) if "more than three tenants in common or other co-owners of interest described in subsection (a) of this section hold interests in such lands".
- 5(i) "Coal Operator" means any person, firm, partnership, partnership association or corporation that proposes to or does operate a coal mine.
- 5(ii, iii) See Code § 22-4-20.
- 6) See Code § 22-4-11(c). However, in lieu of filing the lease(s) or other continuing contract(s), the Applicant may fill out the information in the space provided below.
- 7) See Code § § 22-4-11(d, e).

CONCERNING THE REQUIRED COPIES FOR FILING AND SERVICE:

Filing. Code § 22-4-1k and Regulation 7.02 provide that the original and required copies of the Notice and Application must be filed with the Administrator, 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 § 22-4-1k(d) and the reclamation required by Code § 22-4-12b and Regulation 23, (iv) unless previously paid on the same well, the fees required by Code § 22-4-1a(c) and 22-3-12a, and (v) if applicable, the consent required by Code § 22-4-8a from the owner of any water well on dwelling within 200 feet of the proposed well.

Service. In addition, service must be made on the surface owner(s) and the person(s) with an interest in the coal. See Code § § 22-4-1m, 22-4-2, 22-4-2a, and 22-4-2b.

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INFORMATION SUPPLIED UNDER CODE § 22-4-11(d)

IN LIEU OF FILING LEASE(S) AND OTHER CONTINUING CONTRACT(S)

Under the oath required to make the verification on the obverse side of this Notice, I depose and say that I am the person who signed the Notice for the Applicant, and that--

- (1) the tract of land is the same tract described in the Application to which this Notice applies, partly or wholly depicted in the accompanying plat, and described in the Construction and Reclamation Plan;
- (2) the parties and recordation data (if recorded) for lease(s) or other continuing contract(s) by which the Applicant claims the right to extract, produce or market the oil or gas are as follows:

<u>Grantor, lessor, etc.</u>	<u>Grantee, lessee, etc.</u>	<u>Royalty</u>	<u>Book Page</u>
Laco B. Corder, et. ux.	Cumberland & Allegheny Gas Company	1/8	45/447
Cumberland & Allegheny Gas Company	Union Drilling, Inc.		46/347

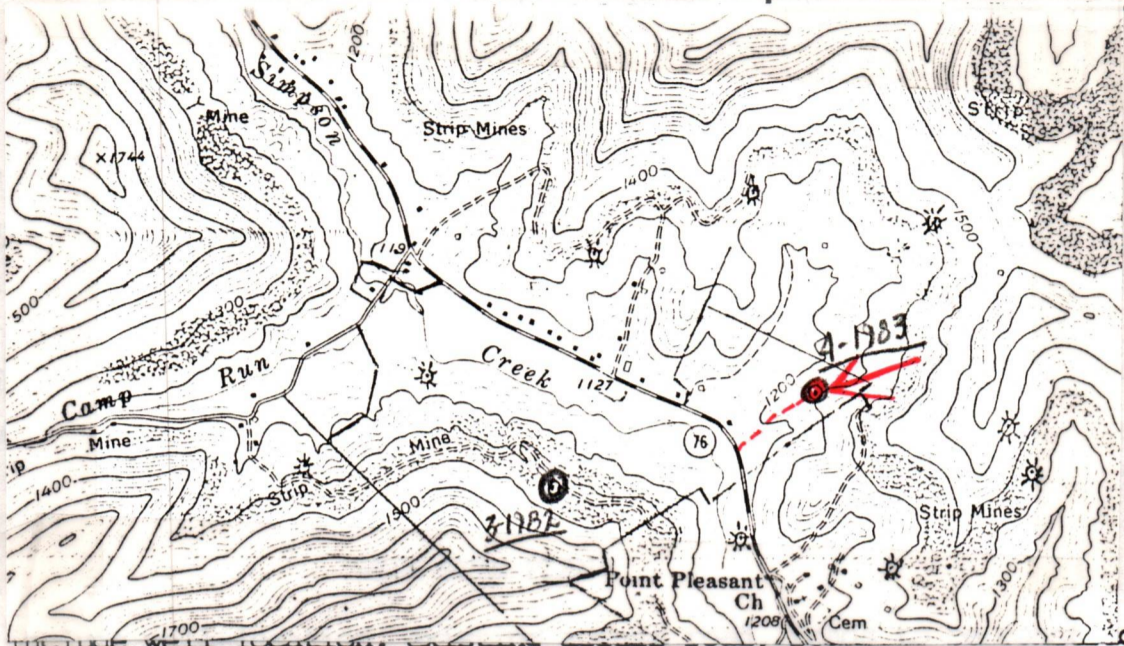
ATTACH OR PHOTOCOPY SECTION OF INVOLVED TOPOGRAPHIC MAP.

QUADRANGLE Philippi 7.5

**LEGEND**

Well Site ⊕

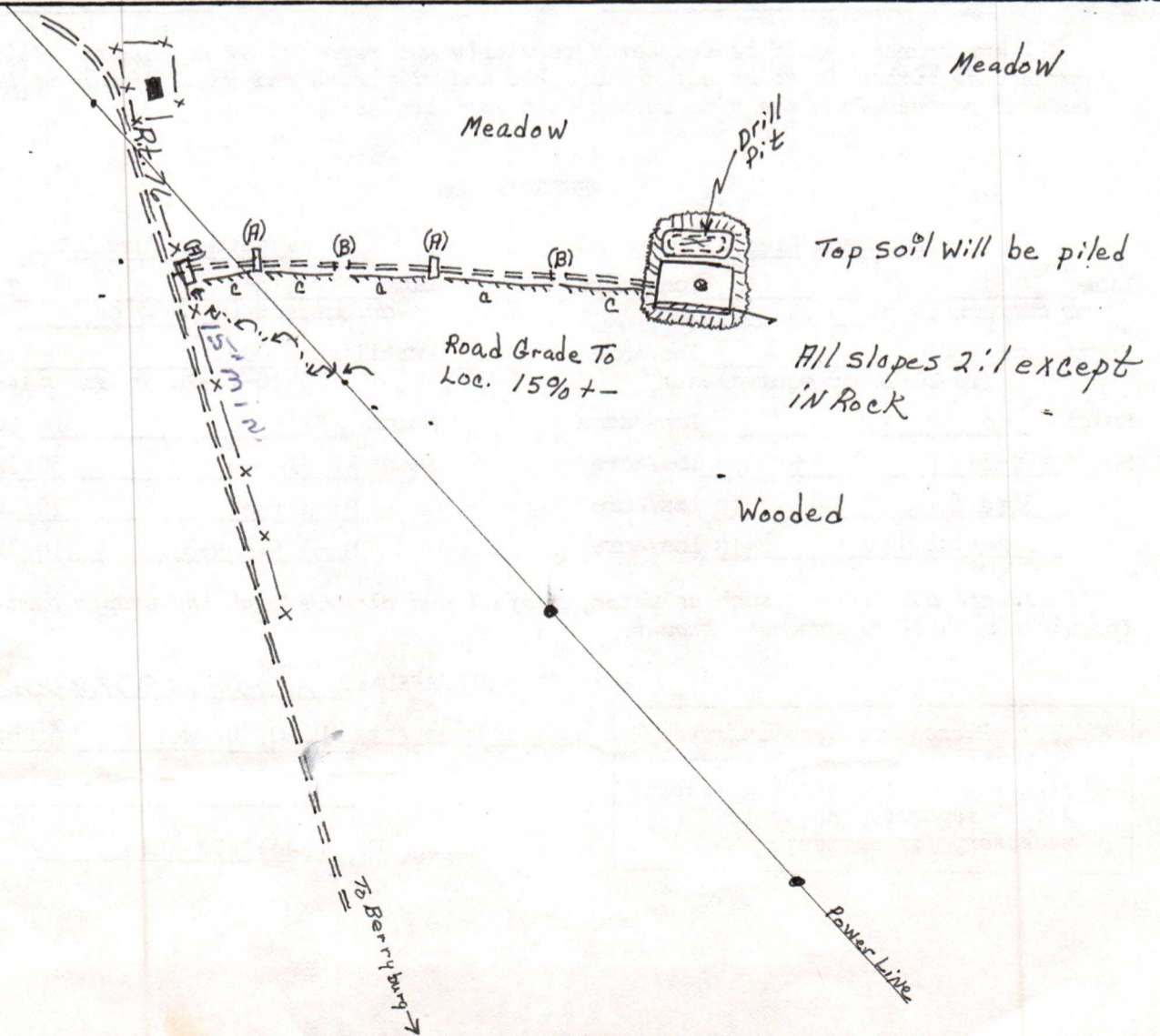
Access Road ———



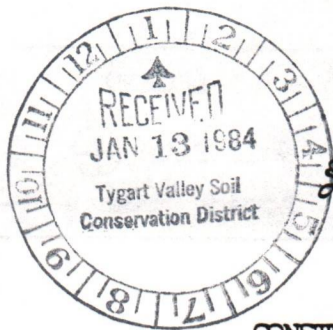
Sketch to include well location, access road, existing structures, well site, drilling pits and necessary structures numbered or lettered to correspond with the first part of this plan. Include all natural drainage.

**LEGEND**

<p>Property boundary ——— ——— ——— ——— ——— </p> <p>Road = = = = =</p> <p>Existing fence — x — x —</p> <p>Planned fence — / — / —</p> <p>Stream ~ ~ ~ ~ ~</p> <p>Open ditch — ···· → — ···· → — ···· → — ···· →</p>	<p>Diversion // // // // //</p> <p>Spring ○ →</p> <p>Wet spot ☼</p> <p>Building ■</p> <p>Drain pipe — ○ — ○ — ○ — ○ — →</p> <p>Waterway ← = = = = =</p>
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IV-9  
(Rev 8-81)



DATE 1-9-84  
WELL NO. 1983  
API NO. 47-001-2028

State of West Virginia  
Department of Mines  
Oil and Gas Division

CONSTRUCTION AND RECLAMATION PLAN

COMPANY NAME Union Drilling, Inc. DESIGNATED AGENT Joseph C. Vanzant, Jr.  
Address P. O. Drawer 40, Buckhannon, WV Address P. O. Drawer 40, Buckhannon, WV 2620  
Telephone 472-4610 Telephone 472-4610

LANDOWNER Laco Border SOIL CONS. DISTRICT Tygart Valley  
Revegetation to be carried out by Union Drilling, Inc. (Agent)

This plan has been reviewed by Tygart Valley SCD. All corrections  
and additions become a part of this plan: 1/16/84 (Date)  
Jean Freeman (SCD Agent)

ACCESS ROAD

LOCATION

Structure Culvert Pipe (12" Min) (A)  
Spacing At Natural Drains  
Page Ref. Manual \_\_\_\_\_

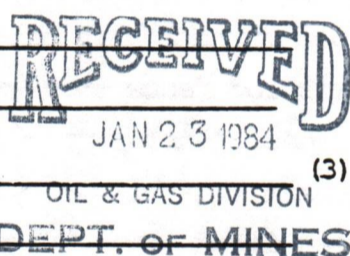
Structure Diversion Ditch (1)  
Material Earthen  
Page Ref. Manual \_\_\_\_\_

Structure Cross Drains (B)  
Spacing 250' +-  
Page Ref. Manual \_\_\_\_\_

Structure \_\_\_\_\_ (2)  
Material \_\_\_\_\_  
Page Ref. Manual \_\_\_\_\_

Structure Roadway Ditch (C)  
Spacing \_\_\_\_\_  
Page Ref. Manual \_\_\_\_\_

Structure \_\_\_\_\_ (3)  
Material \_\_\_\_\_  
Page Ref. Manual \_\_\_\_\_



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 3 Tons/acre  
or correct to pH 6.5  
Fertilizer 600 lbs/acre  
(10-20-20 or equivalent)  
Mulch 2 Tons/acre  
Seed\* Ky-31 30 lbs/acre  
Birdsfoot 10 lbs/acre  
Domestic Rye 10 lbs/acre

Lime 3 Tons/acre  
or correct to pH 6.5  
Fertilizer 600 lbs/acre  
(10-20-20 or equivalent)  
Mulch 2 Tons/acre  
Seed\* Ky-31 30 lbs/acre  
Birdsfoot 10 lbs/acre  
Domestic Rye 10 lbs/acre

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

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

PLAN PREPARED BY Danny O Morgan  
ADDRESS P. O. Drawer 40, Buckhannon, WV 2620  
PHONE NO. (304) 472-4610

P 471 413 910  
RECEIPT FOR CERTIFIED MAIL  
NO INSURANCE COVERAGE PROVIDED—  
NOT FOR INTERNATIONAL MAIL

(See Reverse)

Sent to	Consolidation Coal Company
Street and No.	Post Office Box 1632
P.O., State and ZIP Code	Fairmont, WV 26554
Postage	\$
Certified Fee	
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to whom and Date Delivered	
Return Receipt Showing to whom, Date, and Address of Delivery	
TOTAL Postage and Fees	\$
Postmark or Date	1984 WV

P 471 413 923  
RECEIPT FOR CERTIFIED MAIL  
NO INSURANCE COVERAGE PROVIDED—  
NOT FOR INTERNATIONAL MAIL

(See Reverse)

Sent to	Kitt Energy Corporation
Street and No.	Route 3, Box 146
P.O., State and ZIP Code	Phillippi, WV 26416
Postage	\$
Certified Fee	
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to whom and Date Delivered	
Return Receipt Showing to whom, Date, and Address of Delivery	
TOTAL Postage and Fees	\$
Postmark or Date	1984 WV

P 471 413 908  
RECEIPT FOR CERTIFIED MAIL  
NO INSURANCE COVERAGE PROVIDED—  
NOT FOR INTERNATIONAL MAIL

(See Reverse)

Sent to	Hillman Coal and Coke Company
Street and No.	P. O. Box 189
P.O., State and ZIP Code	Bridgeport, WV 26330
Postage	\$
Certified Fee	
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to whom and Date Delivered	
Return Receipt Showing to whom, Date, and Address of Delivery	
TOTAL Postage and Fees	\$
Postmark or Date	1984 WV

P 471 413 909  
RECEIPT FOR CERTIFIED MAIL  
NO INSURANCE COVERAGE PROVIDED—  
NOT FOR INTERNATIONAL MAIL

(See Reverse)

Sent to	Royal Land Company
Street and No.	455 Race Track Road
P.O., State and ZIP Code	Meadow Lands, PA 15346
Postage	\$
Certified Fee	
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to whom and Date Delivered	
Return Receipt Showing to whom, Date, and Address of Delivery	
TOTAL Postage and Fees	\$
Postmark or Date	1984 WV

P 471 413 922  
RECEIPT FOR CERTIFIED MAIL  
NO INSURANCE COVERAGE PROVIDED—  
NOT FOR INTERNATIONAL MAIL

(See Reverse)

Sent to	Laco B. Corder
Street and No.	Route 2
P.O., State and ZIP Code	Flemington, WV 26347
Postage	\$
Certified Fee	
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to whom and Date Delivered	
Return Receipt Showing to whom, Date, and Address of Delivery	
TOTAL Postage and Fees	\$
Postmark or Date	1984 JAN 30 BUC.H. WING

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

Nowco - 3 stage Foam Frac - Benson 3/1/84 - Riley & Speechly 3/5/84  
 Speechly - 2673/77 - 45,000# 20/40 sand, 223 Bbls water and 587,400 scf nitrogen  
 Riley - 4055/59 - 45,000# 20/40 sand, 559 Bbls water and 610,500 scf nitrogen  
 Benson - 4354/58 - 45,000# 20/40 sand, 585 Bbls water and 692,000 scf nitrogen

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 & Shale			0	28	1/4" stream water @73'
Coal			28	32	
Sand & Shale			32	332	
Coal			332	340	
Sand & Shale			340	1479	
Little Lime			1479	1485	
Big Lime			1498	1671	
Injun			1671	1701	
Weir			1850	1865	
4th Sand			2356	2373	
5th Sand			2419	2450	
Speechly			2671	2679	
Riley			4048	4061	
Benson			4351	4362	
				4555	T.D. gas 6/10 - 2" water

(Attach separate sheets as necessary)

UNION DRILLING, INC.

Well Operator

By: Joseph C. Pettey

Date: Joseph C. Pettey, Vice President of Production

4/24/84

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 ... encountered in the drilling of a well."



# RECEIVED

APR 25 1984



IV-35  
(Rev 8-81)

OIL & GAS DIVISION  
**DEPT. OF MINES** State of West Virginia  
Department of Mines  
Oil and Gas Division

Date April 24, 1984  
Operator's  
Well No. 4 - 1983  
Farm Laco Corder #4  
API No. 47 - 001 - 2028

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      / Underground Storage      / Deep      / Shallow x /)

LOCATION: Elevation: 1293' Watershed Simpson Creek  
District: Pleasant County Barbour Quadrangle Philippi

COMPANY Union Drilling, Inc.

ADDRESS P.O. Drawer 40, Buckhannon, WV 26201

DESIGNATED AGENT Joseph C. Vanzant, Jr.

ADDRESS P.O. Drawer 40, Buckhannon, WV 26201

SURFACE OWNER Laco Corder

ADDRESS Rt #2, Flemington, WV 26347

MINERAL RIGHTS OWNER Same

ADDRESS

OIL AND GAS INSPECTOR FOR THIS WORK

Phil Tracy ADDRESS Forest Festival Terrace

PERMIT ISSUED 2/8/84 Elkins, WV 26241

DRILLING COMMENCED 2/17/84

DRILLING COMPLETED 2/23/84

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

Casing & Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft.
Size 20-16 Cond.			
13-10"	24'	pulled	
9 5/8			
8 5/8	1014'		302 cf
7			
5 1/2			
4 1/2	4483.85'		787 cf
3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION Benson Depth 4000' feet

Depth of completed well 4555' feet Rotary x / Cable Tools

Water strata depth: Fresh 73' feet; Salt  feet

Coal seam depths: 28/32, 332/340 Is coal being mined in the area? no

OPEN FLOW DATA

Producing formation Benson, Riley, Speechly Pay zone depth 4358' feet

Gas: Initial open flow 103 Mcf/d Oil: Initial open flow  Bbl/d

Final open flow 838 Mcf/d Final open flow  Bbl/d

Time of open flow between initial and final tests 2 hours

Static rock pressure 1400# psig (surface measurement) after 24 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  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)



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

FINAL INSPECTION REPORT  
INSPECTORS COMPLIANCE REPORT  
May 1, 1984

COMPANY Union Drilling, Inc.

PERMIT NO 001-2028

P. O. Drawer 40

FARM & WELL NO Laco Corder #4-1983

Buckhannon, West Virginia 26201

DIST. & COUNTY Pleasant/Barbour

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 \_\_\_\_\_

DATE \_\_\_\_\_

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

DATE \_\_\_\_\_



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

RECEIVED  
NOV 19 1984

OIL & GAS DIVISION  
DEPT. OF MINES

FINAL INSPECTION REPORT  
INSPECTORS COMPLIANCE REPORT  
May 1, 1984

COMPANY Union Drilling, Inc.  
P. O. Drawer 40  
Buckhannon, West Virginia 26201

PERMIT NO 001-2028  
FARM & WELL NO Laco Corder #4-1983  
DIST. & COUNTY Pleasant/Barbour

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	<u>✓</u>	
25.01	Necessary Equipment to Prevent Waste	<u>✓</u>	
23.04	Reclaimed Drilling Pits	<u>✓</u>	
23.05	No Surface or Underground Pollution	<u>✓</u>	
23.07	Requirements for Production & Gathering Pipelines	<u>✓</u>	
16.01	Well Records on Site		
16.02	Well Records Filed		
7.05	Identification Markings	<u>✓</u>	

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

SIGNED *David R. Ellis*

DATE 11-16-84

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

December 17, 1984  
DATE

**RECEIVED**  
MAY 16 1984

<p>1.0 API well number: (If not available, leave blank. 14 digits.)</p>	<p>47-001-2028</p>												
<p>2.0 Type of determination being sought: (Use the codes found on the front of this form.)</p>	<p>103 Section of NGPA</p> <p style="text-align: right;">N/A Category Code</p>												
<p>3.0 Depth of the deepest completion location: (Only needed if sections 103 or 107 in 2.0 above.)</p>	<p>4358'</p>												
<p>4.0 Name, address and code number of applicant: (35 letters per line maximum. If code number not available, leave blank.)</p>	<p>Union Drilling, Inc. <span style="float: right;">019434 Seller Code</span></p> <p>Name</p> <p>P.O. Drawer 40</p> <p>Street</p> <p>Buckhannon, WV 26201</p> <p>City State Zip Code</p>												
<p>5.0 Location of this well: [Complete (a) or (b).] (a) For onshore wells (35 letters maximum for field name.)</p>	<p>Pleasant District</p> <p>Field Name</p> <p>Barbour WV</p> <p>County State</p>												
<p>(b) For OCS wells:</p>	<p>Area Name <span style="float: right;">Block Number</span></p> <p>Date of Lease:</p> <p>Mo. Day Yr. <span style="float: right;">OCS Lease Number</span></p>												
<p>(c) Name and identification number of this well: (35 letters and digits maximum.)</p>	<p>Laco Corder #4 1983</p>												
<p>(d) If code 4 or 5 in 2.0 above, name of the reservoir: (35 letters maximum.)</p>	<p>_____</p>												
<p>6.0 (a) Name and code number of the purchaser: (35 letters and digits maximum. If code number not available, leave blank.)</p>	<p>Consolidated Gas Supply Corp. <span style="float: right;">004228 Buyer Code</span></p> <p>Name</p>												
<p>(b) Date of the contract:</p>	<p>Mo. Day Yr.</p>												
<p>(c) Estimated annual production:</p>	<p>not in production MMcf.</p>												
<p>7.0 Contract price: (As of filing date. Complete to 3 decimal places.)</p>	<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width:25%;">(a) Base Price (\$/MMBTU)</th> <th style="width:25%;">(b) Tax</th> <th style="width:25%;">(c) All Other Prices [Indicate (+) or (-).]</th> <th style="width:25%;">(d) Total of (a), (b) and (c)</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">2.879</td> <td style="text-align: center;">.-----</td> <td style="text-align: center;">.-----</td> <td style="text-align: center;">2.879</td> </tr> <tr> <td style="text-align: center;">2.879</td> <td style="text-align: center;">.-----</td> <td style="text-align: center;">.-----</td> <td style="text-align: center;">2.879</td> </tr> </tbody> </table>	(a) Base Price (\$/MMBTU)	(b) Tax	(c) All Other Prices [Indicate (+) or (-).]	(d) Total of (a), (b) and (c)	2.879	.-----	.-----	2.879	2.879	.-----	.-----	2.879
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2.879	.-----	.-----	2.879										
<p>8.0 Maximum lawful rate: (As of filing date. Complete to 3 decimal places.)</p>	<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width:25%;">(a) Base Price (\$/MMBTU)</th> <th style="width:25%;">(b) Tax</th> <th style="width:25%;">(c) All Other Prices [Indicate (+) or (-).]</th> <th style="width:25%;">(d) Total of (a), (b) and (c)</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">2.879</td> <td style="text-align: center;">.-----</td> <td style="text-align: center;">.-----</td> <td style="text-align: center;">2.879</td> </tr> </tbody> </table>	(a) Base Price (\$/MMBTU)	(b) Tax	(c) All Other Prices [Indicate (+) or (-).]	(d) Total of (a), (b) and (c)	2.879	.-----	.-----	2.879				
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2.879	.-----	.-----	2.879										
<p>9.0 Person responsible for this application:</p>	<p>Joseph C. Pettey, Vice President of Production</p> <p>Name <span style="float: right;">Title</span></p> <p><i>Joseph C. Pettey</i></p> <p>Signature</p> <p>MAY 11 1984 <span style="float: right;">(304) 472-4610</span></p> <p>Date Application is Completed <span style="float: right;">Phone Number</span></p>												
<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="text-align: center;">Agency Use Only</td> </tr> <tr> <td style="text-align: center;">Date Received by Juris. Agency</td> </tr> <tr> <td style="text-align: center; font-size: 1.2em;">MAY 16 1984</td> </tr> <tr> <td style="text-align: center;">Date Received by FERC</td> </tr> </table>	Agency Use Only	Date Received by Juris. Agency	MAY 16 1984	Date Received by FERC									
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**PARTICIPANTS:**

DATE: JUN 14 1984

BUYER-SELLER

WELL OPERATOR: Union Drilling, Inc.

FIRST PURCHASER: Consolidated Gas Transmission

OTHER: \_\_\_\_\_

W. Va. Department of Mines, Oil & Gas Division  
 WELL DETERMINATION FILE NUMBER  
840.516 - 103-001 = 2028  
 Use Above File Number on all Communications  
 Relating to Determination of this Well

**QUALIFIED**

CHECK EACH ITEM AS COMPLETE OR NOTE WHAT IS MISSING

ITEM NO.

- 1. FERC -121 \_\_\_\_\_ Items not completed - Line No. \_\_\_\_\_
- 2. IV-1 Agent \_\_\_\_\_
- 3. IV-2 Well Permit \_\_\_\_\_
- 4. IV-6 Well Plat \_\_\_\_\_
- 5. IV-35 Well Record \_\_\_\_\_ Drilling \_\_\_\_\_ Deepening \_\_\_\_\_
- 6. IV-36 Gas-Oil Test: Gas Only \_\_\_\_\_ Was Oil Produced? \_\_\_\_\_ Ratio \_\_\_\_\_
- 7. IV-39 Annual Production \_\_\_\_\_ years
- 8. IV-40 90 day Production \_\_\_\_\_ Days off line: \_\_\_\_\_
- 9. IV-48 Application for certification. Complete? \_\_\_\_\_
- 10-17. IV Form 51 - 52 - 53 - 54 - 55 - 56 - 57 - 58 Complete? \_\_\_\_\_ Affidavit Signed \_\_\_\_\_
- 18-28. Other: Survey \_\_\_\_\_ Logs \_\_\_\_\_ Geological Charts \_\_\_\_\_  
 Structure Map \_\_\_\_\_ 1: 4000 Map \_\_\_\_\_ Well Tabulations \_\_\_\_\_  
 Gas Analyses \_\_\_\_\_
- (5) Date commenced: \_\_\_\_\_ Date completed \_\_\_\_\_ Deepened \_\_\_\_\_
- (5) Production Depth: \_\_\_\_\_
- (5) Production Formation: \_\_\_\_\_
- (5) Final Open Flow: \_\_\_\_\_
- (5) After Frac. R. P. \_\_\_\_\_
- (6) Other Gas Test: \_\_\_\_\_
- (7) Avg. Daily Gas from Annual Production: \_\_\_\_\_
- (8) Avg. Daily Gas from 90-day ending w/1-120 days \_\_\_\_\_
- (8) Line Pressure: \_\_\_\_\_ PSIG from Well \_\_\_\_\_
- (8) Oil Production: \_\_\_\_\_ From Completion Report \_\_\_\_\_
- 10-17. Does lease inventory indicate enhanced recovery being done \_\_\_\_\_
- 10-17. Is affidavit signed? \_\_\_\_\_ Notarized? \_\_\_\_\_
- Does official well record with the Department confirm the submitted information? \_\_\_\_\_
- Additional information \_\_\_\_\_ Does computer program confirm? \_\_\_\_\_
- Was Determination Objected to \_\_\_\_\_ By Whom? \_\_\_\_\_

Date: May 11, 19 84

Operator's  
Well No. 4 - 1983

API Well No. 47 - 001 - 202  
State County Perm

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

WELL OPERATOR'S REPORT  
OF  
INITIAL GAS-OIL RATIO TEST

WELL OPERATOR Union Drilling, Inc.  
Address P.O. Drawer 40  
Buckhannon, WV 26201

DESIGNATED AGENT Joseph C. Vanzant, Jr.  
Address P.O. Drawer 40  
Buckhannon, WV 26201

GEOLOGICAL TARGET FORMATION: Benson Depth 4000' feet  
Perforation Interval 2673/77, 4055/59 feet  
4354/58

GUIDELINES FOR TESTING:

- 1 - A minimum of gas vented or flared
- 2 - A 24 hour preflow into pipelines or tanks
- 3 - Uniform producing rate during the 24 hour test per test period
- 4 - Measurement standards as for Form IV-39, "Report of Annual Production" (see Regulation 21.01)
- 5 - Separate Form IV-36 for each producing formation in a multiple completion

TEST DATA

Start of Test-Date <u>4/22/84</u>	Time	End of Test-Date <u>4/23/84</u>	Time	Duration of Test <u>24 hrs.</u>
Tubing Pressure	Casing Pressure <u>1400#</u>	Separator Pressure	Separator Temperature	
Oil Production During Test bbls.	Gas Production During Test <u>838</u> Mcf	Water Production During Test & Salinity bbls. ppm.		
Oil Gravity	API	Producing Method (Flowing, pumping, gas lift, etc.) <u>flowing</u>		

Gas Production

Measurement Method Flange Tap <input type="checkbox"/> Pipe Tap <input type="checkbox"/> L-10 <input type="checkbox"/>	Positive Choke <input type="checkbox"/>
Orifice Diameter	Critical Flow Prover <input type="checkbox"/>
Differential Pressure Range	Nominal Choke Size - In.
Differential	Prover & Orifice Diam. - In.
Gas Gravity (Air-1.0)	Gas Gravity (Air-1.0) Measured Estimated
24 Hour Coefficient	Gas Temperature _____ of
	24 Hour Coefficient
	Pressure- _____ psia

TEST RESULTS

Daily Oil bbls.	Daily Water bbls.	Daily Gas Mcf.	Gas-Oil Ratio <u>100% gas</u>	SCF
--------------------	----------------------	-------------------	----------------------------------	-----

Union Drilling, Inc.

Well Operator

By: Joseph C. Petty

Its: Joseph C. Petty, Vice President of  
Production

Date May 11, 19 84

STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES,  
OIL AND GAS DIVISION  
WELL CLASSIFICATION FORM

Operator's  
Well No. 4 - 1983  
API Well  
No. 47 - 001 - 2028  
State County Permit

NEW ONSHORE PRODUCTION WELL

NGPA Section 103

DESIGNATED AGENT Joseph C. Vanzant, Jr.  
ADDRESS P.O. Drawer 40  
Buckhannon, WV 26201

WELL OPERATOR Union Drilling, Inc.  
ADDRESS P.O. Drawer 40  
Buckhannon, WV 26201

LOCATION: Elevation 1293'  
Watershed Simpson Creek

GAS PURCHASER Consolidated Gas Supply Corp.  
ADDRESS 445 West Main Street  
Clarksburg, WV 26301

Dist. Pleasant County Barbour Quad. Philippi

Gas Purchase  
Contract No. \_\_\_\_\_

Meter Chart Code \_\_\_\_\_

Date of Contract \_\_\_\_\_

\*\*\*\*\*

Date surface drilling was begun 2/17/84

Indicate the bottom hole pressure of the well and explain how this was calculated:

BHP = P x e (G x L / 53.34 x Avg T)  
P = 1400 psia  
L = 4356 ft  
G = .635  
Avg T = .007 x L + 525  
BHP = 1531.1 psia

AFFIDAVIT

I, Joseph C. Pettey, having been first sworn according to law state that surface drilling of the well for which this determination is sought was begun on or after February 19, 1977; the well satisfies applicable state or federal well spacing requirements and the well is not within a proration unit, in existence at the time surface drilling began, which was applicable to the reservoir from which gas is or will be produced and which applied to any other well producing gas in commercial quantities or on which surface drilling began on or after February 19, 1977, and which was capable of producing gas in commercial quantities. I state, further, that I have concluded, to the best of my information, knowledge and belief, that the well for which this determination is sought is a new onshore production well and that I am not aware of any information not described in the application which is inconsistent with this conclusion.

Joseph C. Pettey

STATE OF WEST VIRGINIA,

COUNTY OF Upshur, TO WIT

I, A. Bradford Zimmerman, a Notary Public in and for the state and county aforesaid, do certify that Joseph C. Pettey, whose name is signed to the writing above, bearing date the 11 day of May, 19 84, has acknowledged the same before me, in my county aforesaid.

Given under my hand and official seal this 11 day of May, 19 84.

My term of office expires on the 3 day of March, 19 91.

(NOTARIAL SEAL)

A. Bradford Zimmerman  
Notary Public

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

Date May 11, 1984

Operator's Well No. 4 - 1983

STATE APPLICATION FOR  
WELL CLASSIFICATION

API Well No. 47 - 001 - 2028  
State County Permit

Previous File No. \_\_\_\_\_  
(If Applicable)

WELL OPERATOR UNION DRILLING, INC.  
ADDRESS P. O. Drawer 40  
Buckhannon, WV 26201

DESIGNATED AGENT Joseph C. Vanzant, Jr.  
ADDRESS P. O. Drawer 40  
Buckhannon, WV 26201

Gas Purchase Contract No. \_\_\_\_\_ and DATE \_\_\_\_\_  
Meter Chart Code \_\_\_\_\_ (Month, day and year)

Name of First Purchaser Consolidated Gas Supply Corp.  
445 West Main Street  
(Street or P.O. Box)  
Clarksburg, WV 26301  
(City) (State) (Zip Code)

FERC Seller Code 019434 FERC Buyer Code 004228

TYPE OF DETERMINATION BEING SOUGHT:

- (1) Initial determination (See FERC Form 121.) 103 N/A
- (2) Determination that increased production is the result of enhanced recovery technology. Section of NGPA 103 Category Code N/A
- (3) Determination of a seasonally affected well.

Joseph C. Pettey, Vice President of Prod.  
Name (Print) Title  
Joseph C. Pettey  
Signature  
P. O. Drawer 40  
Street or P.O. Box  
Buckhannon WV 26201  
City State (Zip Code)  
( 304 ) 472-4610  
Area Code Phone Number

(Certificate of Proof of Service to Purchaser)  
MAILED CERTIFIED NO. P 471 411 991  
DATE MAY 11 1984

(All of the above to be completed by the Operator/Applicant)

(To be completed by Jurisdictional Agency. Executed copy to be returned to Operator/Applicant and purchaser, if known).

The Department of Mines has received a request,  for certification of the above described well as meeting the requirements of Section \_\_\_\_\_ under the Natural Gas Policy Act of 1978, (NGPA);  or for determination that increased production is the result of enhanced recovery technology under Section 108 of (NGPA);  or for determination of a seasonally affected well under Section 108 of (NGPA).

All interested parties are hereby notified that on the \_\_\_\_\_ day of \_\_\_\_\_, 19\_\_\_\_\_, at the office of the Oil and Gas Division in Charleston, West Virginia, or as soon thereafter as it may be heard, there will be a public hearing, if requested, or if objection is filed.

This Application is assigned File No. \_\_\_\_\_.

Initial review of information submitted indicates the well  is,  is not entitled to certification as claimed under the Natural Gas Policy Act (NGPA). A review of this evidence and any additional evidence will be made at the time appointed for a public hearing or as soon thereafter as the matter may be heard.

Unless objections are timely filed or a request for a hearing is made within fifteen (15) days, a hearing will not be held except on ex parte motion of the department and the matter will go to determination.

WEST VIRGINIA DEPARTMENT OF MINES

MAY 16 1984

Date received by  
Jurisdictional Agency

By \_\_\_\_\_  
Title \_\_\_\_\_  
Director



**Interim Collection—First FERC Filing**  
**[Pending Jurisdictional Agency Determination]**  
**To be Filed With FERC On Or After Date Of State Filing**

I, **Joseph C. Pettey**, Vice President of Production, **Union Drilling, Inc.**, being first duly sworn, depose and say that:

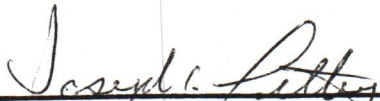
1. I believe in good faith that the natural gas for which interim collections are being made is eligible under NGPA and Subchapter H., Title 18, Code of Federal Regulations for a maximum lawful price not less than that to be collected;

2. A duplicate of FERC Form 121 submitted to the jurisdictional agency is enclosed;

3. I certify that I have this day served a copy of the foregoing document upon the purchaser, if any, of such natural gas;


4. That interim collections hereunder will be placed in escrow to the extent required by 18 CFR 273.302(c).

**UNION DRILLING, INC.**  
Post Office Drawer 40  
Buckhannon, West Virginia 26201



**Joseph C. Pettey**, Vice President of Production

Subscribed and sworn to before me this 11<sup>th</sup> day of May, 1984.

  
Notary Public

County of Upshur  
State of West Virginia

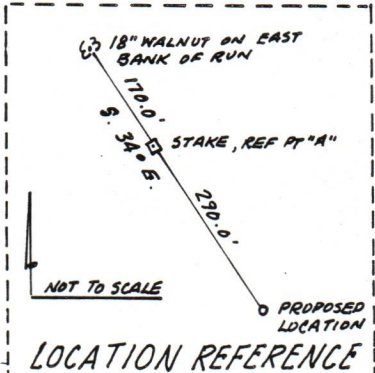
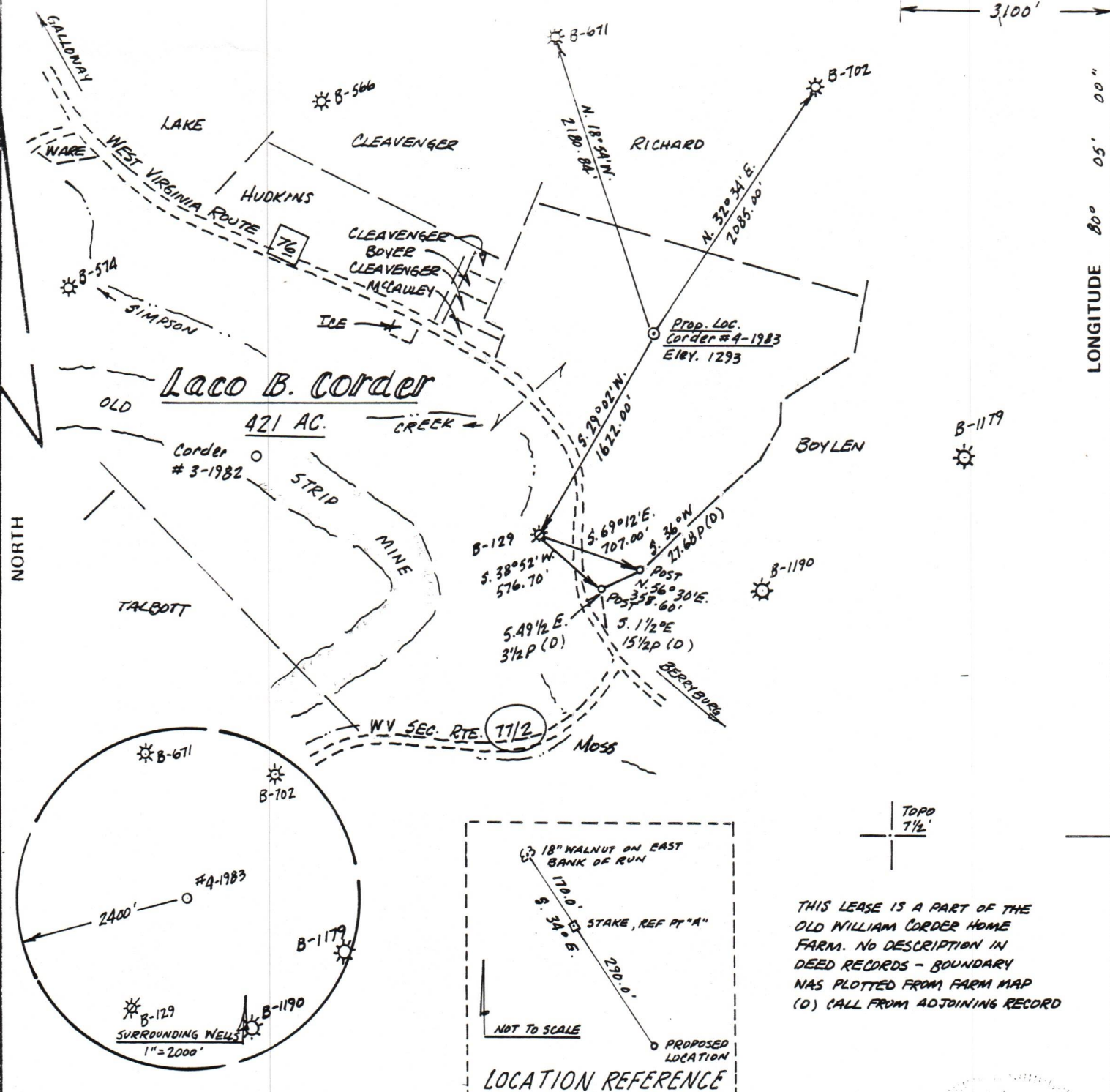
My commission expires:

March 3, 1991.

LATITUDE 39° 15' 00"

3,100'

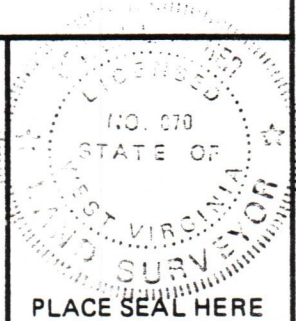
LONGITUDE 80° 05' 00"



THIS LEASE IS A PART OF THE OLD WILLIAM CORDER HOME FARM. NO DESCRIPTION IN DEED RECORDS - BOUNDARY WAS PLOTTED FROM FARM MAP (D) (CALL FROM ADJOINING RECORD

FILE NO. U01-02  
 DRAWING NO. 02-02  
 SCALE 1"=1000'  
 MINIMUM DEGREE OF ACCURACY 1 IN 2500  
 PROVEN SOURCE OF ELEVATION RD INTERSECTION ELEV. 1208, 2400' SE OF PROPOSED LOCATION

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) Dennis L. Fisher  
 R.P.E. \_\_\_\_\_ L.L.S. 670



STATE OF WEST VIRGINIA  
 DEPARTMENT OF MINES  
 OIL AND GAS DIVISION



DATE JANUARY 2, 19 84  
 OPERATOR'S WELL NO. CORDER #4-1983  
 API WELL NO. 47-001-2028  
 STATE COUNTY PERMIT

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS  
 WELL TYPE: OIL \_\_\_ GAS X LIQUID INJECTION \_\_\_ WASTE DISPOSAL \_\_\_  
 (IF "GAS,") PRODUCTION X STORAGE \_\_\_ DEEP \_\_\_ SHALLOW X  
 LOCATION: ELEVATION 1293 WATER SHED SIMPSON CREEK  
 DISTRICT PLEASANT COUNTY BARBOUR  
 QUADRANGLE PHILIPPI (7 1/2')  
 SURFACE OWNER LACO B. CORDER ACREAGE 402  
 OIL & GAS ROYALTY OWNER LACO B. CORDER LEASE ACREAGE 421  
 LEASE NO. 7928  
 PROPOSED WORK: DRILL X 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 BENSON ESTIMATED DEPTH 4000'  
 WELL OPERATOR UNION DRILLING, INC. DESIGNATED AGENT JOSEPH C. VANZANT, JR  
 ADDRESS PO DRAWER 40 ADDRESS PO DRAWER 40  
BUCKHANNON, WV 26201 BUCKHANNON, WV 26201