



1) Date: January 19, 19 84
 2) Operator's Well No. 3 - 1982
 3) API Well No. 47 - 001 - 2026
 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 /
 B (If "Gas", Production / Underground storage / Deep / Shallow /)
- 5) LOCATION: Elevation: 1340 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 / Drill deeper / Redrill / Stimulate /
 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 trata depths: Fresh, ? feet; salt, ? feet.
- 14) Approximate coal seam depths: ? Is coal being mined in the area? Yes / No /
- 15) CASING AND TUBING PROGRAM

CASING OR TUBING TYPE	Size	SPECIFICATIONS				FOOTAGE INTERVALS		CEMENT FILL-UP OR SACKS (Cubic feet)	PACKERS
		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	as required by rule 15.01
Production	4-1/2	J	10 1/2	X		4000'	4000'	800 sacks or	
Tubing									Perforations:
Liners									Top Bottom

OFFICE USE ONLY
 DRILLING PERMIT

Permit number 47-001-2026 Date February 8, 19 84

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: BLANKET	Agents <u>LO</u>	Plat: <u>MH</u>	Casing <u>MH</u>	Fee <u>013-366</u>
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T. H. [Signature]
 Administrator, Office of Oil and Gas

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



STATE OF WEST VIRGINIA

DEPARTMENT OF MINES, OIL AND GAS DIVISION
OFFICE USE ONLY

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

4) WELL LOCATION: B (If 'Gas', Production) _____ Underground storage _____
 Elevation: _____ Watched: _____
 District: _____ County: _____
 5) WELL OPERATOR: _____
 Address: _____
 6) DESIGNATED AGENT: _____
 Address: _____
 7) DRILLING CONTRACTOR: _____
 Name: _____
 Address: _____
 8) OIL & GAS INSPECTOR TO BE NOTIFIED: _____
 Name: _____
 Address: _____
 9) PROPOSED WELL WORK: Drill _____ / Depth _____
 Plug off old formation _____ / Restore new formation _____
 Other physical change in well (specify): _____
 10) GEOLOGICAL TARGET FORMATION: _____
 11) Estimated depth of completed well: _____ feet
 12) Approximate true depth: _____ feet
 13) Approximate coal seam depth: _____ feet
 14) Is coal being mined in the area? Yes _____ No _____

Casing or tubing type	Size	Grade	SPECIFICATIONS			FOOTAGE INTERVALS		PACKERS
			Weight per ft.	New	Used	For drilling	Left in well	
Conductor	20"		35			0	50'	Kind
Production	16"		35			1000'	1000'	Kind
Intermediate	14"		35			1000'	1000'	Kind
Coal								Kind
Plug steel								Kind

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)
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Application received _____ Follow-up inspection(s) _____
 Well work started _____
 Completion of the drilling process _____
 Well Record received _____
 Reclamation completed _____

OTHER INSPECTIONS

Reason: _____
 Reason: _____

Blanket	Agent	Plant	Casing	Fee
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1) Date: January 19, 1984

2) Operator's Well No. 3 - 1982

3) API Well No. 47-001-2026 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 Corder Address Route 2 Flemington, WV 26347

(ii) Name Address

(iii) Name Address

5(i) COAL OPERATOR 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

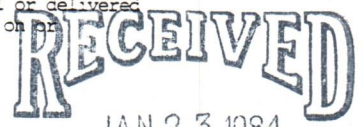
5(iii) COAL LESSEE WITH DECLARATION ON RECORD: Name Kitt Energy Corporation Address Route 3, Box 146 Philippi, WV 26416

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.
[X] The requirement of Code 22-4-1-(c) (1) through (4). (See reverse side for specific)

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 [XX]

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

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 [Signature] 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.

I N F O R M A T I O N S U P P L I E D U N D E R C O D E § 22-4-11(d)

I N L I E U O F F I L I N G L E A S E (S) A N D O T H E R C O N T I N U I N G C O N T R A C T (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:

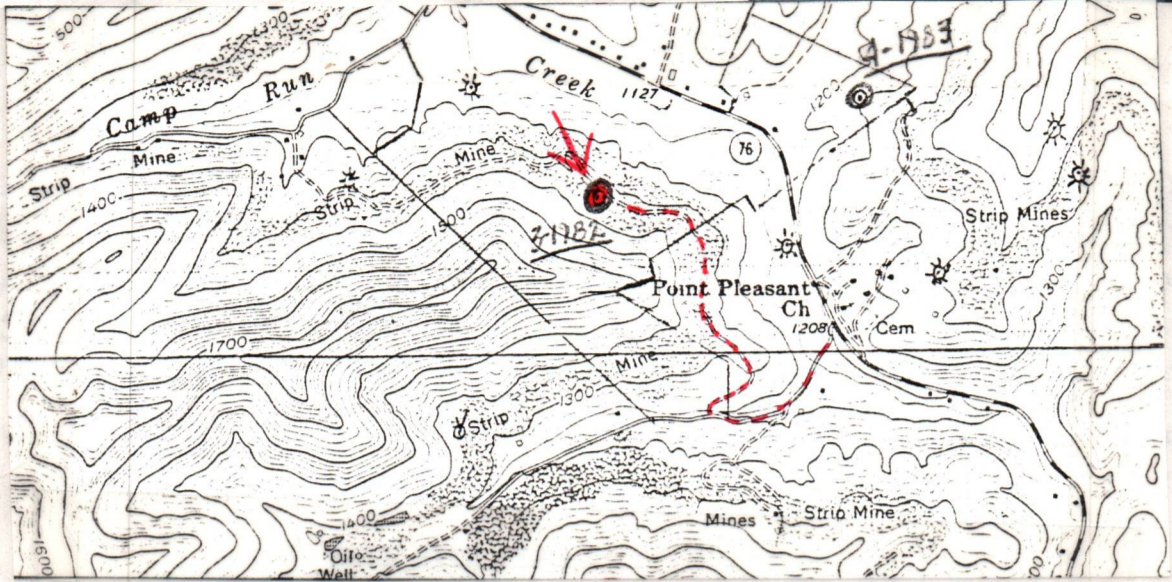
<u>Grantor, lessor, etc.</u>	<u>Grantee, lessee, etc.</u>	<u>Royalty</u>	<u>Book Page</u>
Laco B. Corder, et. ux.	Cumberland & Allegheny Gas Company	1/8	45/447
Cumberland & Allegheny Gas Company	Union Drilling, Inc.		46/347

ATTACH OR PHOTOCOPY SECTION OF INVOLVED TOPOGRAPHIC MAP. QUADRANGLE Philippi 7.5

LEGEND

Well Site ⊕

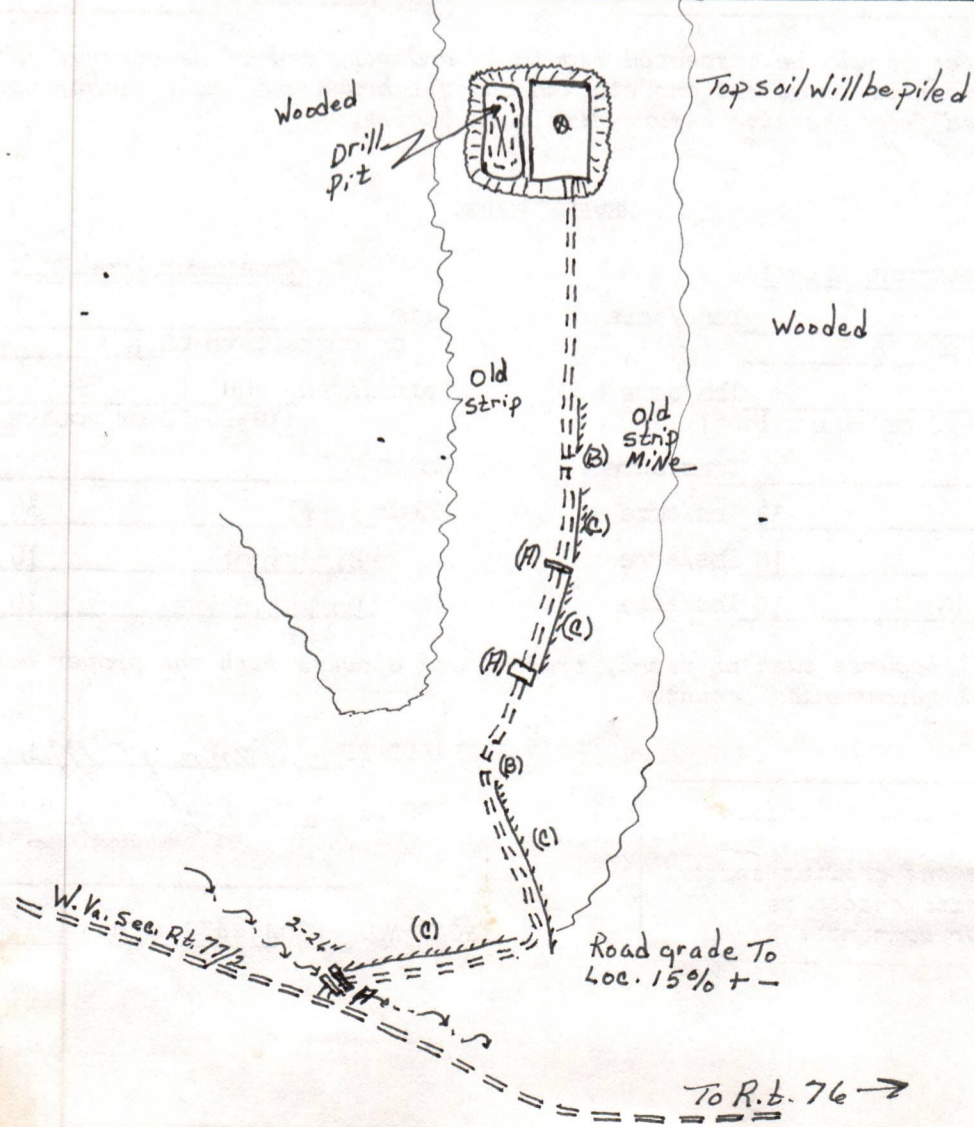
Access Road ———



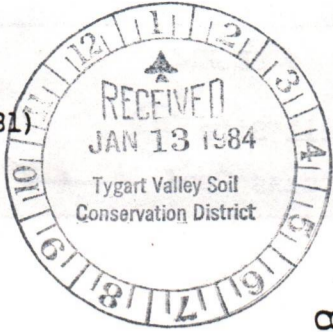
Sketch to include well location, existing access road, roads to be constructed, wellsite, drilling pits and necessary structures numbered or lettered to correspond with the first part of this plan. Include all natural drainage.

LEGEND

Property boundary ——— ——— ——— ——— ———	Diversion ———/———/———/———/———/
Road = = = = =	Spring ○→
Existing fence — x — x —	Wet spot ☹
Planned fence — / — / —	Building ■
Stream ~ ~ ~ ~ ~	Drain pipe — ○ — ○ — ○ —
Open ditch — ····→ — ····→ — ····→ — ····→	Waterway ← = = = = =



IV-9
(Rev 8-81)



DATE 1-9-84

WELL NO. 1982

API NO. 47-001-2026

State of West Virginia
Department of Mines
Oil and Gas Division

CONSTRUCTION AND RECLAMATION PLAN

COMPANY NAME Union Drilling, Inc.
Address P. O. Drawer 40, Buckhannon, WV
Telephone 472-4610

DESIGNATED AGENT Joseph C. Vanzant, Jr.
Address P. O. Drawer 40, Buckhannon, WV
Telephone 472-4610

LANDOWNER LACO B. Corder
Revegetation to be carried out by Union Drilling, Inc.

SOIL CONS. DISTRICT Tygart Valley S.C.D.
(Agent)

This plan has been reviewed by Tygart Valley SCD. All corrections and additions become a part of this plan:

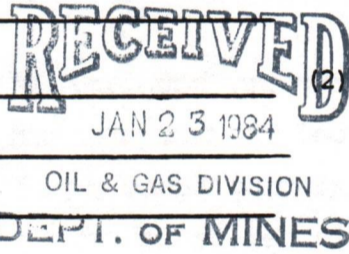
1/16/84
(Date)
Jean Freeman
(SCD Agent)

ACCESS ROAD

LOCATION

Structure Culvert Pipe (12" Min) (A)
Spacing at Natural Drains
Page Ref. Manual _____
Structure Cross Drains (B)
Spacing 250' + -
Page Ref. Manual _____
Structure Roadway Ditch (C)
Spacing _____
Page Ref. Manual _____

Structure _____ (1)
Material _____
Page Ref. Manual _____
Structure _____ (2)
Material _____
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.

PLAN PREPARED BY Danny O Morgan

ADDRESS P. O. Drawer 40, Buckhannon, WV

PHONE NO. (304) 472-4610

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

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	\$ 1.00
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	\$ 1
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	\$ 1
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	JAN 30 1984 DUG-TH-ANNON

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

Dowell - 2 stage Foam Frac - 2/23/84

4131/39 - Riley - 60,000# 20/40 sand, 215 Bbls water and 525,000 scf nitrogen

4420/51 - Benson - 60,000# 20/40 sand, 220 Bbls water and 544,000 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	117	3/4" stream water @70'
Coal			117	123	1" stream water @170'
Sand & Shale			123	263	
Red Rock			263	549	
Sand & Shale			549	1532	
Little Lime			1532	1552	
Big Lime			1567	1682	
Injun			1682	1766	
Weir			1955	1970	
4th Sand			2428	2488	
5th Sand			2507	2558	
Bradford			3656	3714	
Riley			4127	4141	
Benson			4418	4456	
				4615	T.D. 20/10 1" water - 47 mcf

(Attach separate sheets as necessary)

UNION DRILLING, INC.

Well Operator

By:

Joseph C. Pettey, Vice President of Production

3/5/84

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."

IV-35
(Rev 8-81)



RECEIVED

MAR 9 - 1984 State of West Virginia

OIL & GAS DIVISION Department of Mines
DEPT. OF MINES Oil and Gas Division

Date March 5, 1984
Operator's Well No. 3 - 1982
Farm Laco Corder #3
API No. 47 - 001 - 2026

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: 1340' 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
Apt. 24, Elkins, WV 26241
PERMIT ISSUED 2/8/84
DRILLING COMMENCED 2/10/84
DRILLING COMPLETED 2/16/84

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	1024.70'		283 cf
7			
5 1/2			
4 1/2	4544.80'		793 cf
3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION Benson Depth 4000' feet
Depth of completed well 4615' feet Rotary X / Cable Tools _____
Water strata depth: Fresh 70, 170 feet; Salt _____ feet
Coal seam depths: 117/123 Is coal being mined in the area? no

OPEN FLOW DATA
Producing formation Riley, Benson Pay zone depth 4451' feet
Gas: Initial open flow 47 Mcf/d Oil: Initial open flow _____ Bbl/d
Final open flow 342 Mcf/d Final open flow _____ Bbl/d
Time of open flow between initial and final tests 2 hours
Static rock pressure 1150# 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)

BAR 2026

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

RECEIVED

FEB 16 1984

OIL & GAS DIVISION

INSPECTOR'S WELL REPORT DEPT. OF MINES

Permit No. 001-2026

Oil or Gas Well _____
(KIND)

Company Wesair Drilling

Address _____

Farm Geo B Corda

Well No. 3-1984

District Pleasant County Barbours

Drilling commenced _____

Drilling completed _____ Total depth _____

Date shot _____ Depth of shot _____

Initial open flow _____ /10ths Water in _____ Inch

Open flow after tubing _____ /10ths Merc. in _____ Inch

Volume _____ Cu. Ft.

Rock pressure _____ lbs. _____ hrs.

Oil _____ bbls., 1st 24 hrs.

Fresh water _____ feet _____ feet

Salt water _____ feet _____ feet

CASING AND TUBING	USED IN DRILLING	LEFT IN WELL	PACKERS
Size			
16			Kind of Packer _____
13			
10			Size of _____
8 1/4			
6 5/8			Depth set _____
5 3/16			
3			Perf. top _____
2			Perf. bottom _____
Liners Used			Perf. top _____
			Perf. bottom _____

CASING CEMENTED _____ SIZE _____ No. FT. _____ Date _____

NAME OF SERVICE COMPANY _____

COAL WAS ENCOUNTERED AT _____ FEET _____ INCHES

_____ FEET _____ INCHES FEET _____ INCHES

_____ FEET _____ INCHES FEET _____ INCHES

Drillers' Names _____

Remarks: Location

2-8-84
DATE

Philip Tracy
DISTRICT WELL INSPECTOR

2/16/82

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

INSPECTOR'S PLUGGING REPORT

Permit No. _____

Well No. _____

COMPANY _____ ADDRESS _____

FARM _____ DISTRICT _____ COUNTY _____

Filling Material Used _____

Liner		Location	Amount	Packer	Location		
PLUGS USED AND DEPTH PLACED			BRIDGES		CASING AND TUBING		
CEMENT-THICKNESS	WOOD-SIZE	LEAD	CONSTRUCTION-LOCATION		RECOVERED	SIZE	LOST

Drillers' Names _____

Remarks: _____

I hereby certify I visited the above well on this date.

DATE

M DISTRICT WELL INSPECTOR

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

RECEIVED

FEB 16 1984

OIL & GAS DIVISION

INSPECTOR'S WELL REPORT DEPT. OF MINES

Permit No. 001-2026

Oil or Gas Well _____
(KIND)

Company Union Drilling
 Address _____
 Farm Lisa B. Carder
 Well No. 3-1982
 District Plumant County Barbar
 Drilling commenced _____
 Drilling completed _____ Total depth _____
 Date shot _____ Depth of shot _____
 Initial open flow _____ /10ths Water in _____ Inch
 Open flow after tubing _____ /10ths Merc. in _____ Inch
 Volume _____ Cu. Ft.
 Rock pressure _____ lbs. _____ hrs.
 Oil _____ bbls., 1st 24 hrs.
 Fresh water _____ feet _____ feet
 Salt water _____ feet _____ feet

CASING AND TUBING	USED IN DRILLING	LEFT IN WELL	PACKERS
Size			
16			Kind of packer _____
13			
10			Size of _____
8 1/4			
6 5/8			Depth set _____
5 3/16			
3			Perf. top _____
2			Perf. bottom _____
Liners Used			Perf. top _____
			Perf. bottom _____

CASING CEMENTED _____ SIZE _____ No. FT. _____ Date _____
 NAME OF SERVICE COMPANY _____
 COAL WAS ENCOUNTERED AT _____ FEET _____ INCHES
 _____ FEET _____ INCHES _____ FEET _____ INCHES
 _____ FEET _____ INCHES _____ FEET _____ INCHES

Drillers' Names _____

Remarks: Moving rig

2-10-84
DATE

Philip Tracy
DISTRICT WELL INSPECTOR

2/16/82

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

INSPECTOR'S PLUGGING REPORT

Permit No. _____ Well No. _____

COMPANY _____ ADDRESS _____

FARM _____ DISTRICT _____ COUNTY _____

Filling Material Used _____

Liner	Location		Amount	Packer	Location		
PLUGS USED AND DEPTH PLACED			BRIDGES		CASING AND TUBING		
CEMENT-THICKNESS	WOOD-SIZE	LEAD	CONSTRUCTION-LOCATION		RECOVERED	SIZE	LOST

Drillers' Names _____

Remarks: _____

DATE _____ I hereby certify I visited the above well on this date.

DISTRICT WELL INSPECTOR



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
March 27, 1984

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

PERMIT NO 001-2026
FARM & WELL NO Laco Corder #3-1982
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	<input checked="" type="checkbox"/>	
25.01	Necessary Equipment to Prevent Waste	<input checked="" type="checkbox"/>	
23.04	Reclaimed Drilling Pits	<input checked="" type="checkbox"/>	
23.05	No Surface or Underground Pollution	<input checked="" type="checkbox"/>	
23.07	Requirements for Production & Gathering Pipelines	<input checked="" type="checkbox"/>	
16.01	Well Records on Site		
16.02	Well Records Filed		
7.05	Identification Markings	<input checked="" type="checkbox"/>	

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

SIGNED *Ronald 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

1.0 API well number: (If not available, leave blank. 14 digits.)	47-001-2026								
2.0 Type of determination being sought: (Use the codes found on the front of this form.)	103 Section of NGPA								
3.0 Depth of the deepest completion location: (Only needed if sections 103 or 107 in 2.0 above.)	4451' feet								
4.0 Name, address and code number of applicant: (35 letters per line maximum. If code number not available, leave blank.)	Union Drilling, Inc. Name P.O. Drawer 40 Street Buckhannon, WV 26201 City State Zip Code								
5.0 Location of this well: [Complete (a) or (b).] (a) For onshore wells (35 letters maximum for field name.)	Pleasant District Field Name Barbour WV County State								
(b) For OCS wells:	Area Name Block Number Date of Lease: Mo. Day Yr. OCS Lease Number								
(c) Name and identification number of this well: (35 letters and digits maximum.)	Laco Corder #3 1982								
(d) If code 4 or 5 in 2.0 above, name of the reservoir: (35 letters maximum.)	_____								
6.0 (a) Name and code number of the purchaser: (35 letters and digits maximum. If code number not available, leave blank.)	Consolidated Gas Supply Corp. 004228 Name Buyer Code								
(b) Date of the contract:	Mo. Day Yr.								
(c) Estimated annual production:	not in production MMcf.								
7.0 Contract price: (As of filing date. Complete to 3 decimal places.)	<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width:25%;">(a) Base Price (\$/MMBTU)</td> <td style="width:25%;">(b) Tax</td> <td style="width:25%;">(c) All Other Prices [Indicate (+) or (-).]</td> <td style="width:25%;">(d) Total of (a), (b) and (c)</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> </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						
8.0 Maximum lawful rate: (As of filing date. Complete to 3 decimal places.)	<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width:25%;">(a) Base Price (\$/MMBTU)</td> <td style="width:25%;">(b) Tax</td> <td style="width:25%;">(c) All Other Prices [Indicate (+) or (-).]</td> <td style="width:25%;">(d) Total of (a), (b) and (c)</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> </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						
9.0 Person responsible for this application:	Joseph C. Pettey, Vice President of Production Name Title Signature MAY 11 1984 (304) 472-4610 Date Application is Completed Phone Number								
<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 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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RECEIVED

MAY 16 1984

OIL & GAS DIVISION
DEPT. OF MINES

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

840.516-103-001-2026

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 _____
- (9) 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. 3 - 1982

API Well No. 47 - 001 - 2026
State County Permi

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

GEOLOGICAL TARGET FORMATION: Benson Depth 4000' feet
Perforation Interval 4131/39, 4420/51 feet

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>2/27/84</u>	Time	End of Test-Date <u>2/28/84</u>	Time	Duration of Test <u>24 hrs.</u>
Tubing Pressure	Casing Pressure <u>1150#</u>	Separator Pressure	Separator Temperature	
Oil Production During Test bbls.	Gas Production During Test <u>342</u> Mcf	Water Production During Test & Salinity bbls. ppm.		
Oil Gravity	API <u>API</u>	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/STB
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Union Drilling, Inc.
Well Operator
By: Joseph C. Petty
Its: Joseph C. Petty, Vice President of
Production

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

Date May 11, 19 84

STATE APPLICATION FOR
WELL CLASSIFICATION

Operator's Well No. 3 - 1982

API Well No. 47 - 001 - 2026
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 Category Code
- (3) Determination of a seasonally affected well.

Joseph C. Petty, Vice President of Prod.
Name (Print) Title
Joseph C. Petty
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. P471411 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 Director
Title _____

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

1, 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

Joseph C. Pettey, Vice President of Production

Subscribed and sworn to before me this 11th day of May, 1984.

A. Bradford Zimmerman

Notary Public

County of Upshur
State of West Virginia

My commission expires:

March 3, 1991.



**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:

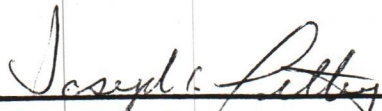
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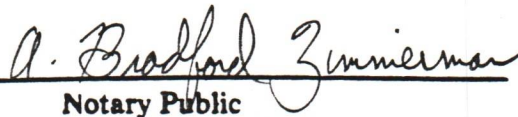
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UNION DRILLING, INC.
Post Office Drawer 40
Buckhannon, West Virginia 26201



Joseph C. Pettey, Vice President of Production

Subscribed and sworn to before me this 11th day of May, 1984.


Notary Public

County of Upshur
State of West Virginia

My commission expires:

March 3, 1991.

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

Date May 11, 19 84

Operator's Well No. 3 - 1982

API Well No. 47 - 001 - 2026
State County Permit

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 1340'
Watershed Simpson Creek
Dist. Pleasant County Barbour Quad. Philippi

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

Gas Purchase Contract No. _____
Meter Chart Code _____
Date of Contract _____

Date surface drilling was begun 2/10/84

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

$BHP = P \times e (G \times L / 53.34 \times Avg T)$
P = 1150 psia
L = 4445 ft
G = .635
Avg T = .007 x L + 525
BHP = 1259.7

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)

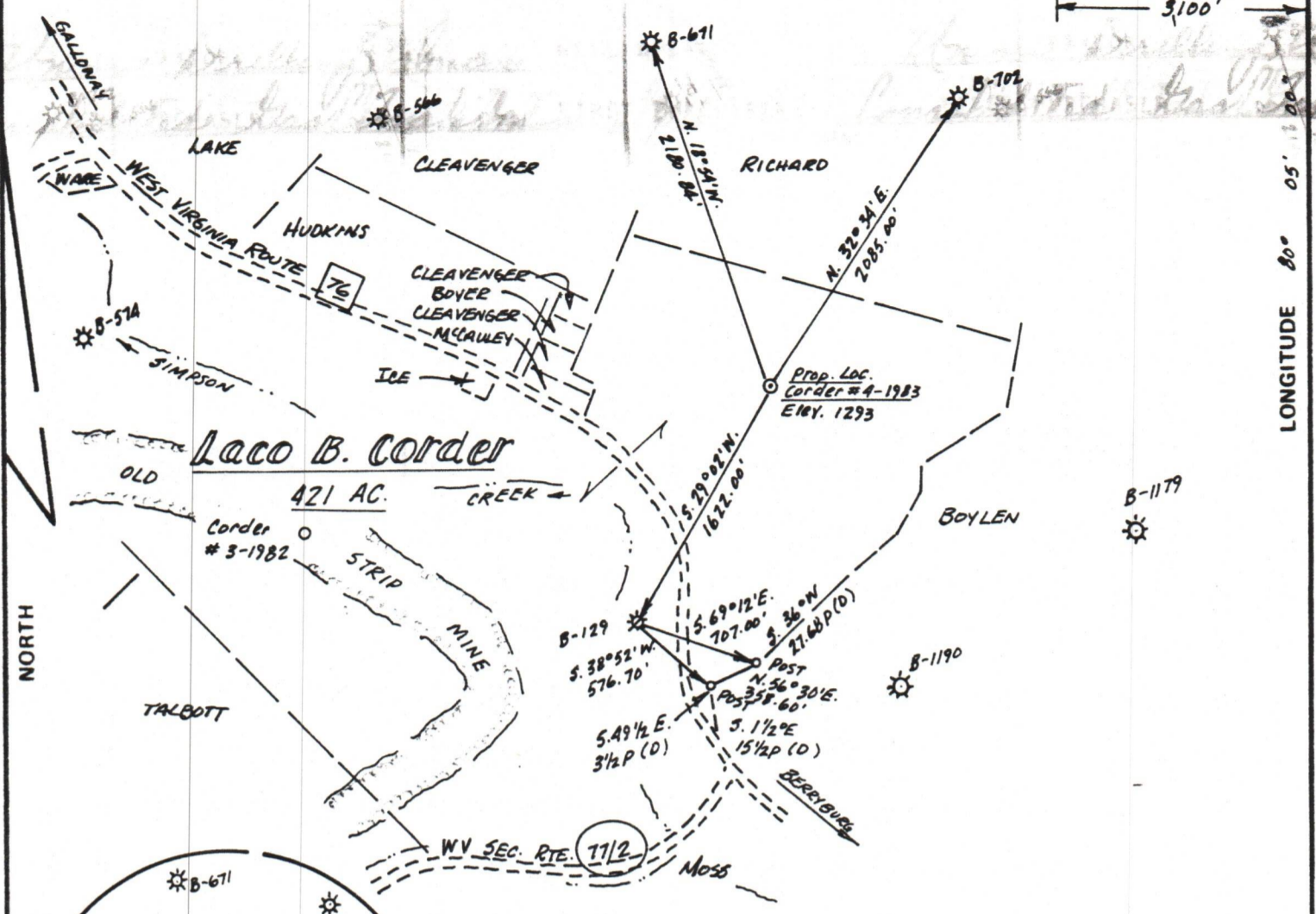
A. Bradford Zimmerman
Notary Public

LATITUDE

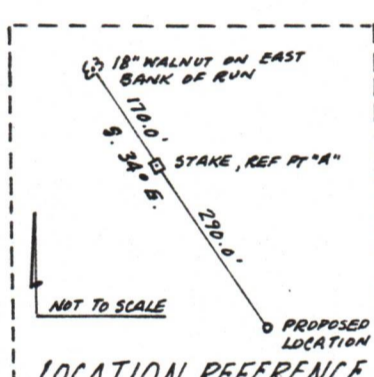
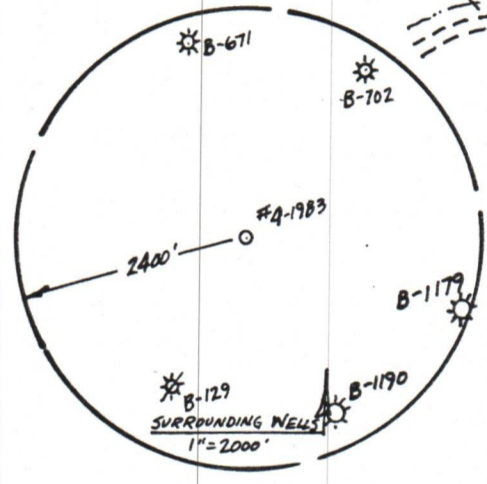
39° 15' 00"

3,100'

LONGITUDE 80° 05' 00"



NORTH



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, 1984
 OPERATOR'S WELL NO. CORDER #4-1983
 API WELL NO. _____
47 - 001 - 2026
 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 X 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 BUCKHANNON, WV 26201 ADDRESS PO DRAWER 40 BUCKHANNON, WV 26201



IV-35
(Rev 8-81)

Date March 5, 1984
Operator's
Well No. 3 - 1982
Farm Laco Corder #3
API No. 47 - 001 - 2026

State of West Virginia
Department of Mines
Oil and Gas Division

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: 1340' 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 Apt. 24, Elkins, WV 26241

DRILLING COMMENCED 2/10/84

DRILLING COMPLETED 2/16/84

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 Cord.			
13-10"	24'	pulled	
9 5/8			
8 5/8	1024.70'	1024.70'	283 cf
7			
5 1/2			
4 1/2	4544.80'	4544.80'	793 cf
3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION Benson Depth 4000' feet

Depth of completed well 4615' feet Rotary X / Cable Tools _____

Water strata depth: Fresh 70, 170 feet; Salt _____ feet

Coal seam depths: 117/123 Is coal being mined in the area? no

OPEN FLOW DATA

Producing formation Riley, Benson Pay zone depth 4451' feet

Gas: Initial open flow 47 Mcf/d Oil: Initial open flow _____ Bbl/d

Final open flow 342 Mcf/d Oil: Final open flow _____ Bbl/d

Time of open flow between initial and final tests 2 hours

Static rock pressure 1150# 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)

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

Dowell - 2 stage Foam Frac - 2/23/84
 4131/39 - Riley - 60,000# 20/40 sand, 215 Bbls water and 525,000 scf nitrogen
 4420/51 - Benson - 60,000# 20/40 sand, 220 Bbls water and 544,000 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	117	3/4" stream water @70'
Coal			117	123	1" stream water @170'
Sand & Shale			123	263	
Red Rock			263	549	
Sand & Shale			549	1532	
Little Lime			1532	1552	
Big Lime			1567	1682	
Injun			1682	1766	
Weir			1955	1970	
4th Sand			2428	2488	
5th Sand			2507	2558	
Bradford			3656	3714	
Riley			4127	4141	
Benson			4418	4456	
				4615	T.D. 20/10 1" water - 47 mcf

(Attach separate sheets as necessary)

UNION DRILLING, INC.
 Well Operator
 By: Joseph C. Pettey
 Date: Joseph C. Pettey, Vice President of Production
3/5/84

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."