

RECEIVED

JAN 20 1981

Date: January 19, 19 81

FORM IV-2 (Obverse) (08-78)

Operator's Well No. 1659

API Well No. 47 - 083 - 0420

OIL & GAS DIVISION DEPT. OF MINES STATE OF WEST VIRGINIA DEPARTMENT OF MINES, OIL AND GAS DIVISION Harry McMullan, Jr. Est. #19 State County Permit

OIL AND GAS WELL PERMIT

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

LOCATION: Elevation: 2515' Watershed: Middle Fork River District: Middle Fork County: Randolph Quadrangle: Cassity

WELL OPERATOR UNION DRILLING, INC. DESIGNATED AGENT UNION DRILLING, INC. Address P.O. Drawer 40 Buckhamnon, WV 26201

OIL & GAS ROYALTY OWNER Harry McMullan, Jr. Est. Harry McMullan, III, Agent Address P.O. Box 8 Washington, NC 27889

ACREAGE 8,663 SURFACE OWNER Same as above and also Address Westvaco 203 Randolph Ave. Elkins, WV 26241

FIELD SALE (IF MADE) TO: Address Not Determined at this time

OIL & GAS INSPECTOR TO BE NOTIFIED Name Robert S. Stewart Address P.O. Box 345 Jane Lew, WV 26378

COAL OPERATOR COAL OWNER(S) WITH DECLARATION ON RECORD: Name James LaRosa 420 Buckhamnon Pike Address Clarksburg, WV 26301 ALSO Amax Coal Co. 105 S. Meridian St. Indianapolis, IND. 46225 Name ALSO International Coal Co. (Lessee) 119 W. Washington St. Lewisburg, WV 24901

COAL LESSEE WITH DECLARATION ON RECORD: Name Address

UDI Lease # 765

The undersigned well operator is entitled to operate for oil or gas purposes at the above location under a deed / lease XXX other contract / dated April 1, 19 75, to the undersigned well operator from Harry McMullan, Jr. Est. to Union Drilling, Inc. (IF said deed, lease, or other contract has been recorded:)

Recorded on August 29, 19 75, in the office of the Clerk of the County Commission of Randolph County, West West, in O/G Book 295 at page 156. A permit is requested as follows:

PROPOSED WORK: Drill X / Drill deeper / Redrill / Fracture or stimulate XX / 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

BLANKET BOND

UNION DRILLING, INC. 03/15/2024 Joseph C. Pettey Well Operator By Joseph C. Pettey Its Production Manager



**PROPOSED WORK ORDER**

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

DRILLING CONTRACTOR (IF KNOWN) UNION DRILLING, INC.  
Address P.O. Drawer 40  
Buckhannon, WV 26201

GEOLOGICAL TARGET FORMATION, Elk

Estimated depth of completed well, 5600' feet Rotary XX / Cable tools \_\_\_\_\_ /

Approximate water strata depths: Fresh, ? feet; salt, ? feet.

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

**CASING AND TUBING PROGRAM**

CASING OR TUBING TYPE	SPECIFICATIONS			New	Used	FOOTAGE INTERVALS		CEMENT FILL-UP OR SACKS (Cubic feet)	PACKERS
	Size	Grade	Weight per ft			For drilling	Left in well		
Conductor	11 3/4"			X		19'	19'		Kinds
Fresh Water									
Coal									Sizes
Intermediate	8 5/8"			X		1000'	1000'	to surface	
Production	4 1/2"			X		5400'	5400'	340 sks.	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, of the W. Va. Code, the location is hereby approved for drilling. This permit shall expire if operations have not commenced by 10-4-81.

*Fred B. [Signature]*  
Deputy Director - Oil & Gas Division

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 03/15/2024 and 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.

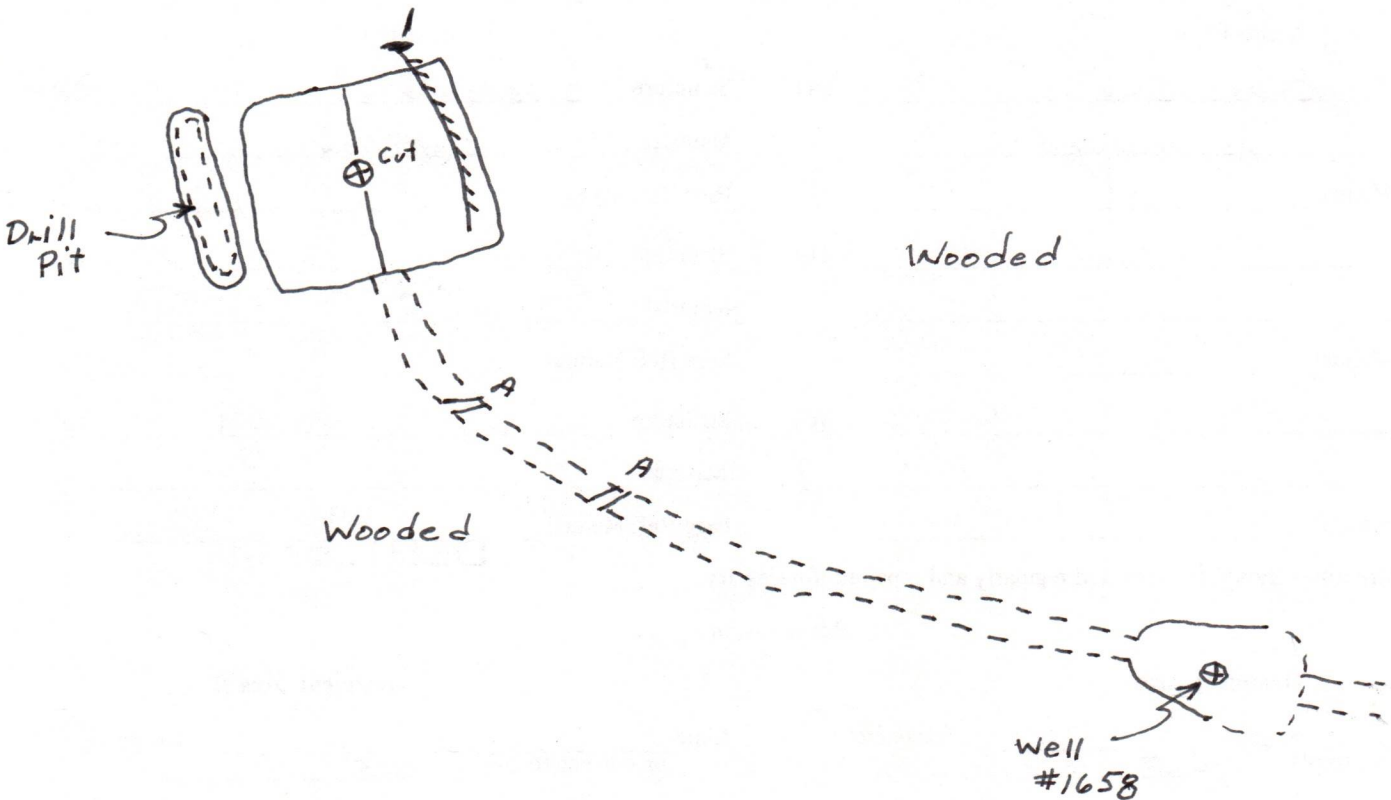
Date: \_\_\_\_\_, 19 \_\_\_\_\_

By \_\_\_\_\_  
Its \_\_\_\_\_

Well Site Plan

Legend:	Property Boundary		Diversion	
	Road		Spring	
	Existing Fence		Wet Spot	
	Planned Fence		Building	
	Stream		Drain Pipe	
	Open Ditch		Waterway	

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



Comments: All commercial timber to be cut & stacked. All brush & small trees to be cut & disposed of before dirt work begins. All slopes to be 2:1 except in Rock. Average roadway grade  $\pm 3\%$

Signature: Arwill P. Wilt, P.O. Drawer 40, Buckhannon, W.Va. 472-4610  
 Agent Address Phone Number

03/15/2024

Please request landowners cooperation to protect new seeding for one growing season.





Date JAN 14, 1 19 81  
 Well No. 1659  
 API No. 47 - 083 - 0420  
 State County Permit

Form IV-9  
(01-80)

STATE OF WEST VIRGINIA  
OFFICE OF OIL AND GAS

Company Name Union Drilling Inc. Designated Agent Union Drilling Inc.  
 Address P.O. Drawer 40, Buckhannon, W.Va. Address P.O. Drawer 40, Buckhannon  
 Telephone 472-4610 Telephone 472-4610  
 Landowner Westvaco Corp. Soil Cons. District Tygart's Valley  
 Revegetation to be carried out by Union Drilling Inc (Agent)  
 This plan has been reviewed by Tygart's Valley SCD. All corrections and additions become a part  
 of this plan. Jan. 15, 1981 (Date) Junior Hedrick / Jean Freeman (SCD Agent)

Access Road	Location
Structure <u>Cross Drains</u> (A)	Structure <u>Diversion</u> (1)
Spacing <u>As needed</u>	Material <u>Earth</u>
Page Ref. Manual _____	Page Ref. Manual _____
Structure _____ (B)	Structure _____ (2)
Spacing _____	Material _____
Page Ref. Manual _____	Page Ref. Manual _____
Structure _____ (C)	Structure _____ (3)
Spacing _____	Material _____
Page Ref. Manual _____	Page Ref. Manual <u>OIL &amp; GAS DIVISION</u> <u>DEPT. OF MINES</u>

All structures should be inspected regularly and repaired if necessary.

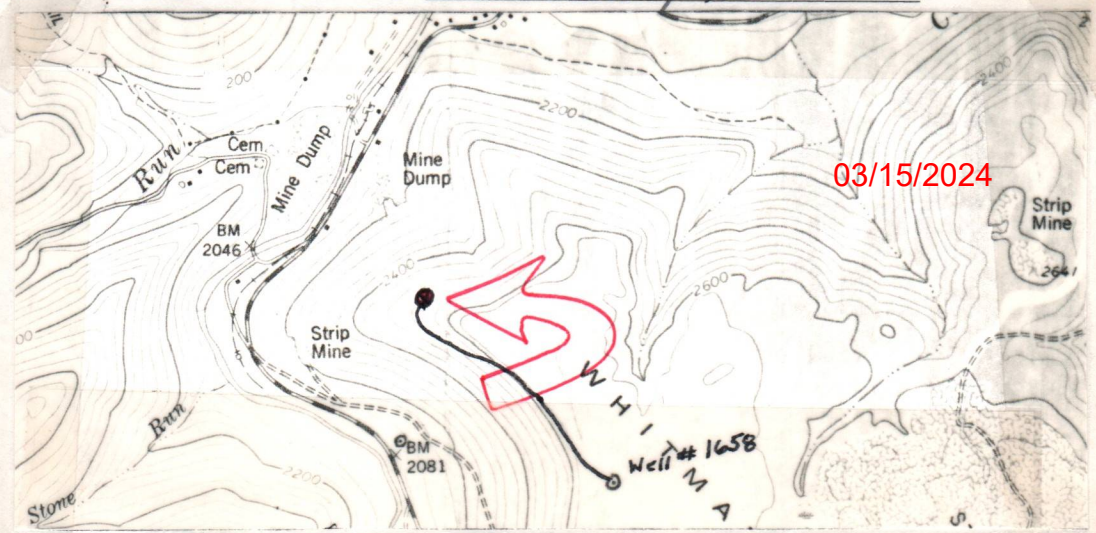
Revegetation

Treatment Area I		Treatment Area II	
Lime <u>3</u> or correct to pH <u>6.5</u>	Tons/acre	Lime <u>3</u> or correct to pH <u>6.5</u>	Tons/acre
Fertilizer <u>600</u> (10-20-20 or equivalent)	lbs/acre	Fertilizer <u>600</u> (10-20-20 or equivalent)	lbs/acre
Mulch <u>2</u>	Tons/acre	Mulch <u>2</u>	Tons/acre
Seed* <u>Ky 31</u> <u>30</u>	lbs/acre	Seed* <u>Ky 31</u> <u>30</u>	lbs/acre
<u>Birdsfoot</u> <u>10</u>	lbs/acre	<u>Birdsfoot</u> <u>10</u>	lbs/acre
<u>Domestic Rye</u> <u>10</u>	lbs/acre	<u>Domestic Rye</u> <u>10</u>	lbs/acre

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

Attach or photocopy section of involved Topographic map. Quadrangle Cassity 7.5

Legend: ⊕ Well Site  
 — Access Road





Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	Remarks
Ground Level			0	4		
Sand & Shale			4	653		
Coal			653	659		
Sand & Shale			659	1228		
Big Lime			1228	1384		
Big Injun			1384	1490		
Sand & Shale			1490	2120		
Bayard			2120	2182		
Sand & Shale			2182	2260		
Elizabeth			2260	2296		
Sand & Shale			2296	2546		
Speechly			2546	2574		
Sand & Shale			2574	3548		
Benson			3548	3604		
Sand & Shale			3604	3806		
Alexander			3806	3838		
Sand & Shale			3838	4798		
Elk			4798	4836		
Sand & Shale			4836	5114 TD		

03/15/2024

Date June 2, 1981

APPROVED UNION DRILLING, INC. Owner

By *Joseph C. Pettey*  
Joseph C. Pettey, Production Mgr.



State of West Virginia  
Department of Mines  
Oil and Gas Division

WELL RECORD

Well Type: Oil / Gas XX / Liquid Injection / Waste Disposal /  
(If "Gas", Production XX / Underground storage / Deep / Shallow XX /

Location: Elevation: 2515' Watershed Middle Fork River

District: Middle Fork County: Randolph Quadrangle: Cassity

Well Operator Union Drilling, Inc. Designated Agent Union Drilling, Inc.

Address P.O. Drawer 40 Address P.O. Drawer 40

Buckhannon, WV 26201 Buckhannon, WV 26201

Permitted Work: Drill XX / Covert / Drill deeper / Redrill /

Fracture or stimulate XX / Plug off old formation /

Perforate new formation / Other physical change in well (specify)

Permit Issued on January 20, 1981

Oil & Gas Inspector for This Work:

Name: Robert S. Stewart

Address: P.O. Box 345

Jane Lew, WV 26378

Geological Target Formation: Elk Depth 5600 feet

Depth of completed well, 5114 feet Rotary XX / Cable Tools /

Water strata depth: Fresh 1/2" @ 55' feet; Salt; — feet.

Coal seam depths: 653-659' Is coal being mined in the area? No

Work was commenced April 14, 1981, and completed April 21, 1981

Casing and Tubing Program

Casing or Tubing Type	Specifications				Footage Intervals		Cement Fill-Up Or Sacks (cubic feet)	
	Size	Grade	Weight per ft	New	Used	For drilling		Left in well
Conductor	11 3/4"			X		25'	25'	
Fresh Water								
Coal								
Intermediate	8 5/8"		20#	X		802.33'	802.33'	235 sks
Production	4 1/2"		10 1/2#	X		4933.90'	4933.90'	630 sks
Tubing								
Liners								

Well Treatment details:

Halliburton Water Fractured 4/28/81

Speechly - 2561/65' - 45,000# Sand, 380 bbls water

Alexander - 3822/26' - 45,000# Sand, 373 bbls water

Elk - 4808/13' - 45,000# Sand, 370 bbls water

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JAN 7 - 1982

OIL AND GAS DIVISION  
WV DEPARTMENT OF MINES

03/15/2024

Gas: Initial open flow, Show Mcf/d Oil: Initial open flow, — Bbl/d

Final open flow, 1,032 Mcf/d Final open flow, — Bbl/d

Static Rock Pressure, 1110 psig (surface measurement) after 24 hours shut in.

(Well log on reverse side)



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

INSPECTOR'S WELL REPORT

RECEIVED  
APR 20 1981  
Oil or Gas Well GAS  
KIND

Permit No. 083-0420

Company Union Drilling

Address Buck Hannon

Farm HARRY McMullen

Well No. 1659

District MIDDLE FORK County RAVDOLPH

Drilling commenced 4-14-81

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

OIL & GAS DIV. ON  
DEPT. OF MINES  
Well

PACKERS

Size

16 \_\_\_\_\_ Kind of Packer \_\_\_\_\_

13 \_\_\_\_\_

10 \_\_\_\_\_ Size of \_\_\_\_\_

8 1/4 \_\_\_\_\_

6 3/4 \_\_\_\_\_ 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 Union Rig 2

Remarks: Move Rig SPUD

4-14-81

DATE

Robert Stewart

03/15/2024 INSPECTOR







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

RECEIVED

NOV 24 1981

OIL AND GAS DIVISION  
DEPARTMENT OF MINES

INSPECTOR'S WELL REPORT

Permit No. 005-0420

Oil or Gas Well GAS  
(KIND)

Company Union Drilling  
 Address Buck Hannon  
 Farm HARRY Mc Miller  
 Well No. 1659  
 District MIDDLE FORK County RANDOLPH  
 Drilling commenced 4-14-81  
 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:  
O.K. TO Release

11-20-81  
DATE

Robert Stewart 571  
03/15/2024  
DISTRICT WELL INSPECTOR









State of West Virginia

Department of Mines  
Oil and Gas Division  
Charleston 25305

WALTER N. MILLER  
DIRECTOR

January 29, 1982

Union Drilling, Inc.  
P. O. Drawer 40  
Buckhannon, W. Va. 26201

Dear Sir:

The required records and reports have been received in this office and the District Inspectors have submitted Final Inspections for the following wells listed below:

<u>PERMIT NO.</u>	<u>FARM AND WELL NO.</u>	<u>DISTRICT</u>
RAN-0388	Harry McMullan, Jr. Estate #16-1516-UC	Middle Fork
RAN-0389	Harry McMullan, Jr. Estate #17-1522-UC	Middle Fork
RAN-0412	Della B. Wilson et al #1-1653-U	Roaring Creek
RAN-0419	Harry McMullan, Jr. Estate #1658	Middle Fork
→ RAN-0420	Harry McMullan, Jr. Estate #1659	Middle Fork

In accordance with Chapter 22, Article 4, Section 2, the bond coverage for above captioned wells will stay in force for life of well. Reclamation requirements have been approved..... ..

Very truly yours,

Fred Burdette



1.0 API well number: (If not available, leave blank. 14 digits.)	<u>47-083-0420</u>											
2.0 Type of determination being sought: (Use the codes found on the front of this form.)	<u>103</u> Section of NGPA	<u>N/A</u> Category Code										
3.0 Depth of the deepest completion location: (Only needed if sections 103 or 107 in 2.0 above.)	<u>4813</u> feet											
4.0 Name, address and code number of applicant: (35 letters per line maximum. If code number not available, leave blank.)	<u>Union Drilling, Inc.</u> Name		<u>019434</u> Seller Code									
	<u>P.O. Drawer 40</u> Street											
	<u>Buckhannon,</u> City	<u>WV</u> State	<u>26201</u> Zip Code									
5.0 Location of this well: [Complete (a) or (b).] (a) For onshore wells (35 letters maximum for field name.)	<u>Middle Fork District</u> Field Name											
	<u>Randolph</u> County		<u>WV</u> 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.)	<u>Harry McMullan, Jr. Est. #19 - 1659</u>											
(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.)	<u>Columbia Gas Transmission Corporation</u> Name		<u>004030</u> Buyer Code									
(b) Date of the contract:	_____ Mo. Day Yr.											
(c) Estimated annual production:	<u>Not in production yet</u> MMcf.											
		(a) Base Price (\$/MMBTU)	(b) Tax	(c) All Other Prices [Indicate (+) or (-).]	(d) Total of (a), (b) and (c)							
7.0 Contract price: (As of filing date. Complete to 3 decimal places.)		<u>2.460</u>	_____	_____	<u>2.460</u>							
8.0 Maximum lawful rate: (As of filing date. Complete to 3 decimal places.)		<u>2.460</u>	_____	_____	<u>2.460</u>							
9.0 Person responsible for this application:	<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width:30%; text-align: center;">                     Agency Use Only                      Date Received by Juris. Agency  <b>APR 1 1982</b>                      Date Received by FERC                 </td> <td style="width:70%;"> <table style="width:100%;"> <tr> <td style="width:60%;"> <u>Joseph C. Pettey,</u>                              Name                         </td> <td style="width:40%;"> <u>Production Manager</u>                              Title                         </td> </tr> <tr> <td colspan="2" style="text-align: center;"> <u>Joseph C. Pettey</u>                              Signature                         </td> </tr> <tr> <td style="text-align: center;"> <u>MAR 29 1982</u>                              Date Application is Completed                         </td> <td style="text-align: center;"> <u>(304) 472-4610</u>                              Phone Number                         </td> </tr> </table> </td> </tr> </table>				Agency Use Only Date Received by Juris. Agency <b>APR 1 1982</b> Date Received by FERC	<table style="width:100%;"> <tr> <td style="width:60%;"> <u>Joseph C. Pettey,</u>                              Name                         </td> <td style="width:40%;"> <u>Production Manager</u>                              Title                         </td> </tr> <tr> <td colspan="2" style="text-align: center;"> <u>Joseph C. Pettey</u>                              Signature                         </td> </tr> <tr> <td style="text-align: center;"> <u>MAR 29 1982</u>                              Date Application is Completed                         </td> <td style="text-align: center;"> <u>(304) 472-4610</u>                              Phone Number                         </td> </tr> </table>	<u>Joseph C. Pettey,</u> Name	<u>Production Manager</u> Title	<u>Joseph C. Pettey</u> Signature		<u>MAR 29 1982</u> Date Application is Completed	<u>(304) 472-4610</u> Phone Number
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<u>Joseph C. Pettey,</u> Name	<u>Production Manager</u> Title											
<u>Joseph C. Pettey</u> Signature												
<u>MAR 29 1982</u> Date Application is Completed	<u>(304) 472-4610</u> Phone Number											



PARTICIPANTS:

DATE: \_\_\_\_\_

BUYER-SELLER CODE

WELL OPERATOR: Union Drilling, Inc.

FIRST PURCHASER: Columbia Gas Trans. Corp

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

019434

004630

SEP 9 1982

W. Va. Department of Mines, Oil & Gas Division  
 WELL DETERMINATION FILE NUMBER  
820401-103-083-0420  
 Use Above File Number on all Communications  
 Relating to Determination of this Well

1500' Radius  
Checked 11/1/82

QUALIFIED

CHECK EACH ITEM AS COMPLETE OR NOTE WHAT IS MISSING

ITEM NO.

- 1. FERC -121  Items not completed - Line No. 7.0 + 8.0 bc
- 2. IV-1 Agent  K. R. Ranson
- 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: 4-14-81 Date completed 4-21-81 Deepened
- (5) Production Depth: 2561-65, 3822-26, 4808-13
- (5) Production Formation: Speechly, Alexander, Elk
- (5) Final Open Flow: 1032 MCF
- (5) After Frac. R. P. 1110# 24 hrs.
- (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 Daily Report
- (5) Oil Production:  From Completion Report
- 2-17. Does lease inventory indicate enhanced recovery being done NO
- 2-17. Is affidavit signed?  Notarized?
- Does official well record with the Department confirm the submitted information? 03/15/2024
- Additional information  Does computer program confirm? \_\_\_\_\_
- Is Determination Objected to \_\_\_\_\_ By Whom? \_\_\_\_\_



Date March 4, 19 82

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

Operator's  
Well No. 19-1659  
API Well  
No. 47 - 083 - 0420  
State County Permit

NEW ONSHORE PRODUCTION WELL  
NGPA Section 103

DESIGNATED AGENT Union Drilling, Inc.  
ADDRESS P.O. Drawer 40  
Buckhannon, WV 26201

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

LOCATION: Elevation 2515'  
Watershed Middle Fork River  
Dist. Middle Fork County Randolph Quad. Cassity

GAS PURCHASER Columbia Gas. Trans. Corp.  
ADDRESS Attn: Bill Gallagher  
P.O. Box 498  
Washington, PA 15301

Gas Purchase  
Contract No. \_\_\_\_\_  
Meter Chart Code \_\_\_\_\_  
Date of Contract \_\_\_\_\_

\*\*\*\*\*

Date surface drilling was begun 4/28/81

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

$$BHP = P_1 \times e (G \times L / 53.34 \times \text{Avg. T})$$
$$P_1 = \text{Rock Pressure } 1110\# \quad L = 5114' \quad \text{Avg. T.} = .007 L + 520 \quad G = .635$$
$$BHP = 1274.2 \text{ psia}$$

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

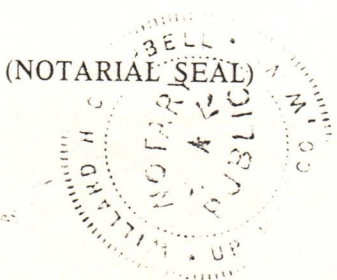
STATE OF WEST VIRGINIA,

COUNTY OF Upshur, TO WIT

I, William Campbell, 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 29 day of March, 19 82, has acknowledged the same before me, in my county aforesaid.

Given under my hand and official seal this 29 day of March, 1982.

My term of office expires on the 3/3 day of 1983. **03/15/2024**



William Campbell  
Notary Public