

Date: November 5, 19 80

Operator's Well No. 17 - 1522 - UC

API Well No. 47 - 083 - 0389

State County Permit

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

Harry McMullan, Jr. Estate #17
(1522-UC)

OIL AND GAS WELL PERMIT

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

LOCATION: Elevation: 2110' 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

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

Acreage 8,663 COAL OWNER(S) WITH DECLARATION ON RECORD:
SURFACE OWNER Westvaco Corporation Name Harry McMullan, Jr. Estate
Harry McMullan, III, Agent Address P. O. Box 8
Washington, NC 27889

FIELD SALE (IF MADE) TO: Name
Address

Address Columbia Gas Trans. Corp.
P. O. Box 498, Washington PA 15301 COAL LESSEE WITH DECLARATION ON RECORD:

OIL & GAS INSPECTOR TO BE NOTIFIED Name AMAX COAL CO., 105 S. Meridian St.
Name Robert Stewart (884-7782) Address Indianapolis, IND 46225
Address P. O. Box 345 (And) International Coal Co.
Jane Lew, WV 26378 119 West Washington St.
Lewisburg, WV 24901

UDI #765

The undersigned well operator is entitled to operate for oil or gas purposes at the above location under a deed / lease x
other contract / dated April 1, 19 75, to the undersigned well operator from Harry McMullan, Jr.
Estate 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 x /
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 COMMISS-
SION
1615 WASHINGTON STREET EAST
CHARLESTON, WV 25311
TELEPHONE: (304) 348-3092

RECEIVED
NOV - 8 1980
OIL & GAS DIVISION
DEPT. OF MINES

03/22/2024

UNION DRILLING, INC.
Well Operator
By Joseph C. Pettey
Its Joseph C. Pettey, Production Manager

BLANKET BOND

PROPOSED WORK ORDER

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

DRILLING CONTRACTOR (IF KNOWN) UNION DRILLING, INC.

Address P. O. Drawer 40

Buckhannon, WV 26201

GEOLOGICAL TARGET FORMATION, Elk

Estimated depth of completed well, 5200 feet Rotary / Cable tools _____ /

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

Approximate coal seam depths: ? Is coal being mined in the area? Yes _____ / No /

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		20'	20'		Kinds
Fresh Water									
Coal									Sizes
Intermediate	8 5/8"		20#	x		900'	900'	to surface	
Production	4 1/2"		10 1/2#	x		5200'	5200'	350 sks. or as needed	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 7-21-81.

[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 03/22/2024 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 _____

STAMPED BOARD



Form IV-9
(01-80)

Date October 30 19 80
 Well No. 1522
 API No. 47 - 083 - 0389
 State County Permit

STATE OF WEST VIRGINIA
OFFICE OF OIL AND GAS

Company Name Union Drilling Inc. Designated Agent Union Drilling Inc
 Address P.O. DRAWEL 40, BUCKHANNON W.VA. Address P.O. DRAWEL 40, BUCKHANNON, W.VA.
 Telephone 472-4610 Telephone 472-4610
 Landowner West VACO 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. 10/31/80 Junior Freeman/Jean Freeman
 (Date) (SCD Agent)

Access Road	Location
Structure <u>Culvert Pipe</u> (A)	Structure <u>Diversion</u> (1)
Spacing <u>At Roadway Ditch</u>	Material <u>Earthen</u>
Page Ref. Manual _____	Page Ref. Manual _____
Structure <u>Roadway Ditch</u> (B)	Structure _____ (2)
Spacing _____	Material _____
Page Ref. Manual _____	Page Ref. Manual _____
Structure _____ (C)	Structure _____ (3)
Spacing _____	Material _____
Page Ref. Manual _____	Page Ref. Manual _____

All structures should be inspected regularly and repaired if necessary.

Revegetation

Treatment Area I		Treatment Area II	
Lime <u>3</u> Tons/acre	or correct to pH <u>6.5</u>	Lime <u>3</u> Tons/acre	or correct to pH <u>6.5</u>
Fertilizer <u>600</u> lbs/acre	(10-20-20 or equivalent)	Fertilizer <u>600</u> lbs/acre	(10-20-20 or equivalent)
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'

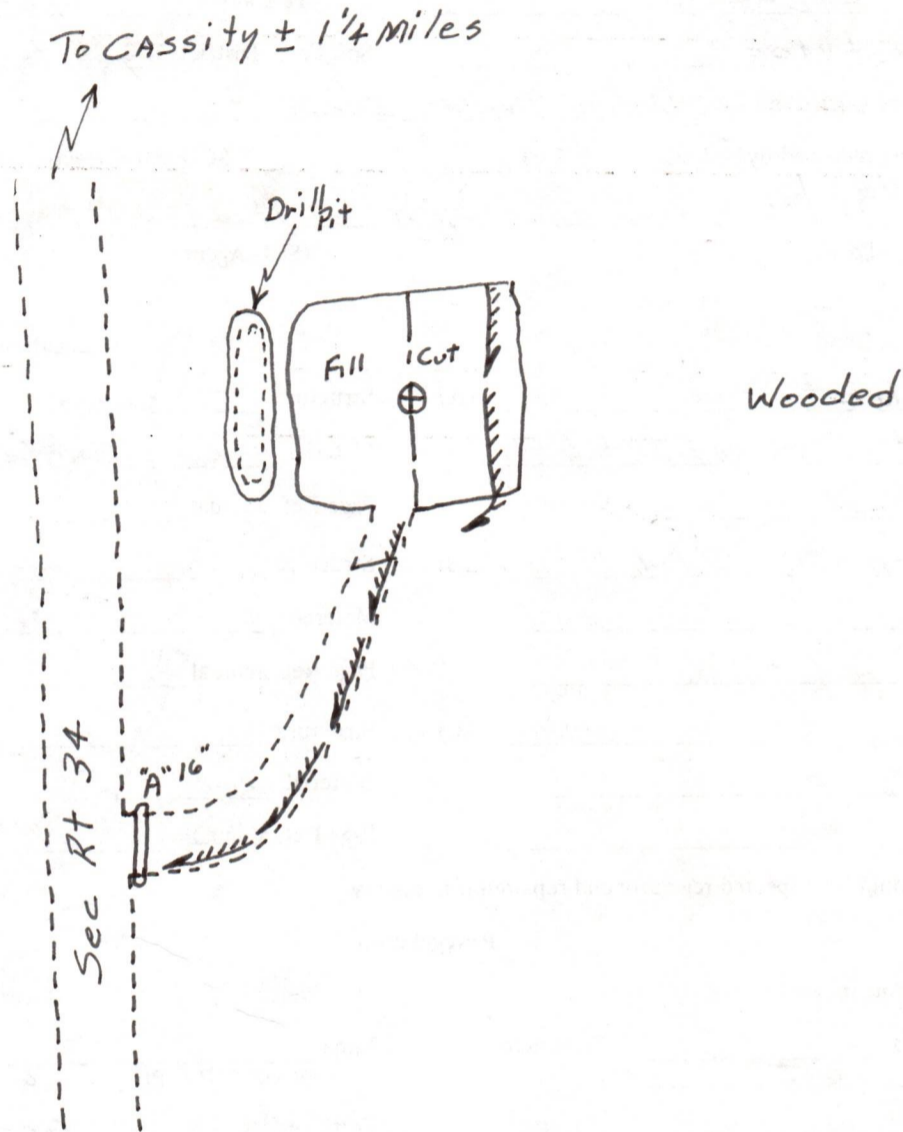
Legend: Well Site
 Access Road



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 ± 3%

Signature: Cervill P. Witt, P.O. Drawer 40, Buckhannon W.Va., 472-~~68~~ 4610
 Agent Address Phone Number

03/22/2024

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

AMAX **COAL COMPANY**
A DIVISION OF AMAX INC.

105 SOUTH MERIDIAN STREET, INDIANAPOLIS, INDIANA 46225 • (317) 266-2626

November 13, 1980

RECEIVED
NOV 18 1980

Department of Mines
Oil and Gas Division
1615 Washington Street, East
Charleston, West Virginia 25311

OIL & GAS DIVISION
DEPT. OF MINES

Re: Union Drilling, Inc.
#17-1522-UC McMullan, Jr. Estate
Middle Fork District
Randolph County, West Virginia

Dear Sirs:

The AMAX Coal Company has received notification that a permit application is being filed to drill the above-mentioned well. The AMAX Coal Company will offer no objection to the drilling of this proposed well provided the applicant intends to drill the proposed well subject to the following conditions:

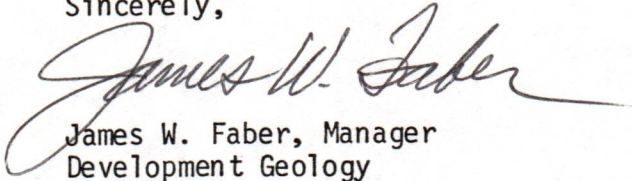
1. All drilling and casing of the well shall be done in compliance with the laws and regulations of the State of West Virginia for wells drilled through workable coal beds.
2. All workable coal seams regardless of depth shall be plugged in accordance with the rules and regulations of the State of West Virginia, specifically as outlined in Article 4, Chapter 22 of the West Virginia Code.
3. Union Drilling, Inc. - - will provide AMAX with a density and natural gamma ray log at a 5"=100' scale covering the interval from total depth to ground surface. In addition, one copy of any other geophysical log shall be sent to AMAX. However, AMAX Coal Company retains the option to run their own logs or have this service contracted out. Please contact Mr. David Darko (317/266-2633) for questions on this procedure.

03/22/2024

Department of Mines
Page Two
November 13, 1980

4. Copies of the completion report, OG-10, and plugging affidavit, OG-8, if applicable, shall be sent to AMAX Coal Company, Attention: James W. Faber.

Sincerely,



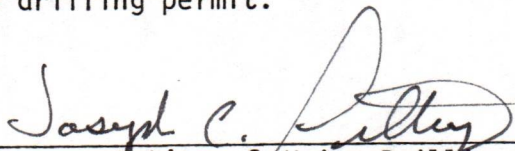
James W. Faber, Manager
Development Geology

JWF/mdt

Enclosures

cc: Union Drilling, Inc.
David A. Darko

The above stipulations are agreed to as a condition for obtaining a drilling permit.



Representative of Union Drilling, Inc.

Nov 17/1980
(Date)

03/22/2024

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	Remarks
Ground Level			0	20	1" Water @ 20'	
Sand & Shale			20	48	2" Water @ 70'	
Coal			48	50	2" Water @ 106'	
Sand & Shale			50	808		
Big Lime			808	942		
Big Injun			942	1068		
Sand & Shale			1068	1590		
4th Sand			1590	1620		
Sand & Shale			1620	1654		
5th Sand			1654	1720		
Sand & Shale			1720	1742		
Bayard			1742	1756		
Sand & Shale			1756	2136		
Speechly			2136	2148		
Sand & Shale			2148	2430		
Balltown			2430	2440		
Sand & Shale			2440	3204		
Benson			3204	3216		
Sand & Shale			3216	4376		
1st Elk			4376	4425		
Sand & Shale			4425	4450		
2nd Elk			4450	4496		
Sand & Shale			4496	4608		
3rd Elk			4608	4656		
Sand & Shale			4656	4874 TD		

03/22/2024

Date June 2, 19 81

APPROVED UNION DRILLING, INC. Owner

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

revised)

Date: June 2, 1981
Operator's
Well No. 17-1522

API Well No. 47- 083-0389

Harry McMullan, Jr. Est. 17-1522

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: 2110' 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 /

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

Permit Issued on November 6, 1980

Oil & Gas Inspector for This Work:

Name: Robert Stewart

Address: P.O. Box 345

Jane Lew, WV 26378

Geological Target Formation: Elk Depth 5200 feet

Depth of completed well, 4874 feet Rotary XX / Cable Tools /

Water strata depth: Fresh @20,70,&100' feet; Salt; feet.

Coal seam depths: 48-50' Is coal being mined in the area? No

Work was commenced 5/10/81, and completed 5/15/81

Casing and Tubing Program

Casing or Tubing Type	Size	Specifications				Footage Intervals		Cement Fill-Up Or Sacks (cubic feet)
		Grade	Weight per ft	New	Used	For drilling	Left in well	
Conductor	11 3/4"		40#		X	46'	46'	
Fresh Water								
Intermediate	8 5/8"		20#	X		629.'	629.'	170 sks
Production	4 1/2"		10 1/2#	X		4712.30'	4712.30'	660 sks
Logging								
Wells								

RECEIVED

Well Treatment details:

Halliburton Water Fractured 5/28/81

JAN 7 - 1982

Balltown - 2436/40 - 45,000# Sand, 375 bbls water

OIL AND GAS DIVISION
WV DEPARTMENT OF MINES

Benson - 3208/14 - 45,000# Sand, 382 bbls water

1st, 2nd & 3rd Elk - 4403/07, 4465/67, 4615, 17' - 45,000# Sand, 347 bbls water

03/22/2024

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

Final open flow, 1,087 Mcf/d Final open flow, Bbl/d

Static Rock Pressure, 1375# 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

RECEIVED

MAY 13 1981

INSPECTOR'S WELL REPORT OIL & GAS DIVISION
DEPT. OF MINES

Permit No. 083-0389

Oil or Gas Well Gas
(KIND)

Company <u>Union DRIG</u>	CASING AND TUBING	USED IN DRILLING	LEFT IN WELL	PACKERS
Address <u>Buck HANNON</u>	Size			
Farm <u>HARRY McMiller</u>	16			Kind of Packer
Well No. <u>17-1522-UC</u>	13			
District <u>MIDDLE FORK</u> County <u>RANDOLPH</u>	10			Size of
Drilling commenced <u>5-11-81</u>	8 1/4			
Drilling completed _____ Total depth _____	6 5/8			Depth set
Date shot _____ Depth of shot _____	5 3/16			
Initial open flow _____ /10ths Water in _____ Inch	3			Perf. top
Open flow after tubing _____ /10ths Merc. in _____ Inch	2			Perf. bottom
Volume _____ Cu. Ft.	Liners Used			Perf. top
Rock pressure _____ lbs. _____ hrs.				Perf. bottom
Oil _____ bbls., 1st 24 hrs.	CASING CEMENTED _____ SIZE _____ No. FT. _____ Date _____			
Fresh water _____ feet _____ feet	NAME OF SERVICE COMPANY _____			
Salt water _____ feet _____ feet	COAL WAS ENCOUNTERED AT _____ FEET _____ INCHES			
	_____ FEET _____ INCHES _____ FEET _____ INCHES			
	_____ FEET _____ INCHES _____ FEET _____ INCHES			

Drillers' Names Union Rig -11

Remarks:

Move Rig SPUD

5-11-81
DATE

Robert Stewart 511
03/22/2024
DISTRICT WELL INSPECTOR

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

RECEIVED

NOV 24 1981

OIL AND GAS DIVISION
WV DEPARTMENT OF MINES

INSPECTOR'S WELL REPORT

Permit No. 083-0389

Oil or Gas Well GAS
(KIND)

Company	CASING AND TUBING	USED IN DRILLING	LEFT IN WELL	PACKERS
<u>UNION DRILLING INC</u>	Size			
<u>BUCK HANNON</u>	16			Kind of Packer
<u>HARRY McMullen</u>	13			
<u>17-1522-VE</u>	10			Size of
<u>MIDDLE FORK</u> County <u>RANDOLPH</u>	8 1/4			
<u>5-81</u>	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:
OK To Release

11-19-81
DATE

Robert Stewart 511
03/22/2024
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

03/22/2024

1.0 API well number: (If not available, leave blank. 14 digits.)	47-083-0389			
2.0 Type of determination being sought: (Use the codes found on the front of this form.)	103 Section of NGPA	N/A Category Code		
3.0 Depth of the deepest completion location: (Only needed if sections 103 or 107 in 2.0 above.)	4617 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		019434 Seller Code	
	P.O. Drawer 40			
	Buckhammon, 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.)	Middle Fork District			
	Field Name			
	Randolph	WV	State	
	County			
(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.)	Harry McMullan, Jr. Est. #17 - 1522			
(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.)	Columbia Gas Transmission Corporation		004030	
	Name		Buyer Code	
(b) Date of the contract:	Mo. Day Yr.			
(c) Estimated annual production:	Not in production yet 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.)	2.460	.---	.---	2.460
8.0 Maximum lawful rate: (As of filing date. Complete to 3 decimal places.)	2.460	.---	.---	2.460
9.0 Person responsible for this application:	Joseph C. Pettey Name			
Agency Use Only Date Received by Juris. Agency APR 1 1982 Date Received by FERC	Production Manager Title			
	Signature			
	MAR 29 1982 Date Application is Completed		(304) 472-4610 Phone Number	

03/22/2024

APR 1 1985

03/22/2024

PARTICIPANTS:

DATE: _____

BUYER-SELLER CODE

WELL OPERATOR:

Union Drilling, Inc.

SEP

019434

FIRST PURCHASER:

Columbia Gas Trans. Corp

91982004030

OTHER: _____

W. Va. Department of Mines, Oil & Gas Division
 WELL DETERMINATION FILE NUMBER
820401-103-083-0389
 Use Above File Number on all Communications
 Relating to Determination of this Well

1500' Radius
check

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: 5-10-81 Date completed 5-15-81 Deepened
- (5) Production Depth: 2436-40 3208-14 4403-7 4465-67 4615-17
- (5) Production Formation: Balltown, Benson, 1st + 2nd + 3rd Elk
- (5) Final Open Flow: 1087 MCF
- (5) After Frac. R. P. 1375 # 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
- 0-17. Does lease inventory indicate enhanced recovery being done NO
- 0-17. Is affidavit signed? Notarized?
- Does official well record with the Department confirm the submitted information 03/22/2024
- 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. 17-1522
API Well No. 47 - 083 - 0389
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 2110'
Watershed Middle Fork River
Dist. Middle Fork County Randolph Quad Cassity

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

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

Date surface drilling was begun 5/10/81

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

$BHP = P_1 \times e (G \times L / 53.34 \times Avg. T)$
 $P_1 = \text{rock pressure} = 1375\# \quad G = .635 \quad L = 4874' \quad Avg. T = .007 L + 520^\circ$
 $BHP = 1568.9 \text{ psia}$

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.

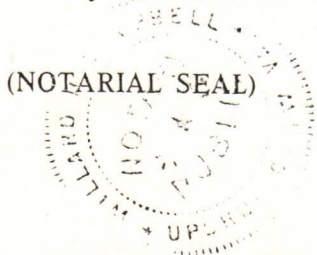
Joseph C. Pettey

STATE OF WEST VIRGINIA,
COUNTY OF Upshur, TO WIT

I, William H. 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, 19 82.

My term of office expires on the _____ day of 3/3, 19 83. **03/22/2024**



William H. Campbell
Notary Public