

Date: November 5, 19 80

Operator's Well No. 16 - 1516 - UC

API Well No. 47 . 083 . 0388

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

State County Permit
Harry McMullan, Jr. Estate #16
(1516-UC)

OIL AND GAS WELL PERMIT

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

LOCATION: Elevation: 2150' Watershed: Middle Fork River
District: Middle Fork County: Randolph Quadrangle: Cassity

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

DESIGNATED AGENT UNION DRILLING, INC.
Address P. O. Drawer 40
Buckhannon, WV 26201

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

COAL OPERATOR
Address

Acreage 8,663

COAL OWNER(S) WITH DECLARATION ON RECORD:

SURFACE OWNER Westvaco Corporation
Address 203 Randolph Avenue
Elkins, WV 26241

Name Harry McMullan, Jr. Estate
Harry McMullan, III, Agent
Address P. O. Box 8
Washington, NC 27889

Acreage 798

Name

FIELD SALE (IF MADE) TO:
Address Columbia Gas Trans. Corporation
P. O. Box 498, Washington, PA 15301

Address
Name
Address

OIL & GAS INSPECTOR TO BE NOTIFIED
Name Robert Stewart (884-7782)
Address P. O. Box 345
Jane Lew, WV 26378

COAL LESSEE WITH DECLARATION ON RECORD:
Name AMAX COAL CO., 105 S. Meridian St.
Indianapolis, IND 46225
Address (and) International Coal Co.
119 West Washington St.
Lewisburg, WV 24901

UDI LEASE #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 COMMISSION
1615 WASHINGTON STREET EAST CHARLESTON, WV 25311
TELEPHONE: (304) 348-3092

RECEIVED
NOV - 6 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 x / 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					FOOTAGE INTERVALS		CEMENT FILL-UP OR SACKS (Cubic feet)	PACKERS
	Size	Grade	Weight per ft	New	Used	For drilling	Left in well		
Conductor	11 3/4"			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'	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.

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 03/22/2024 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 _____

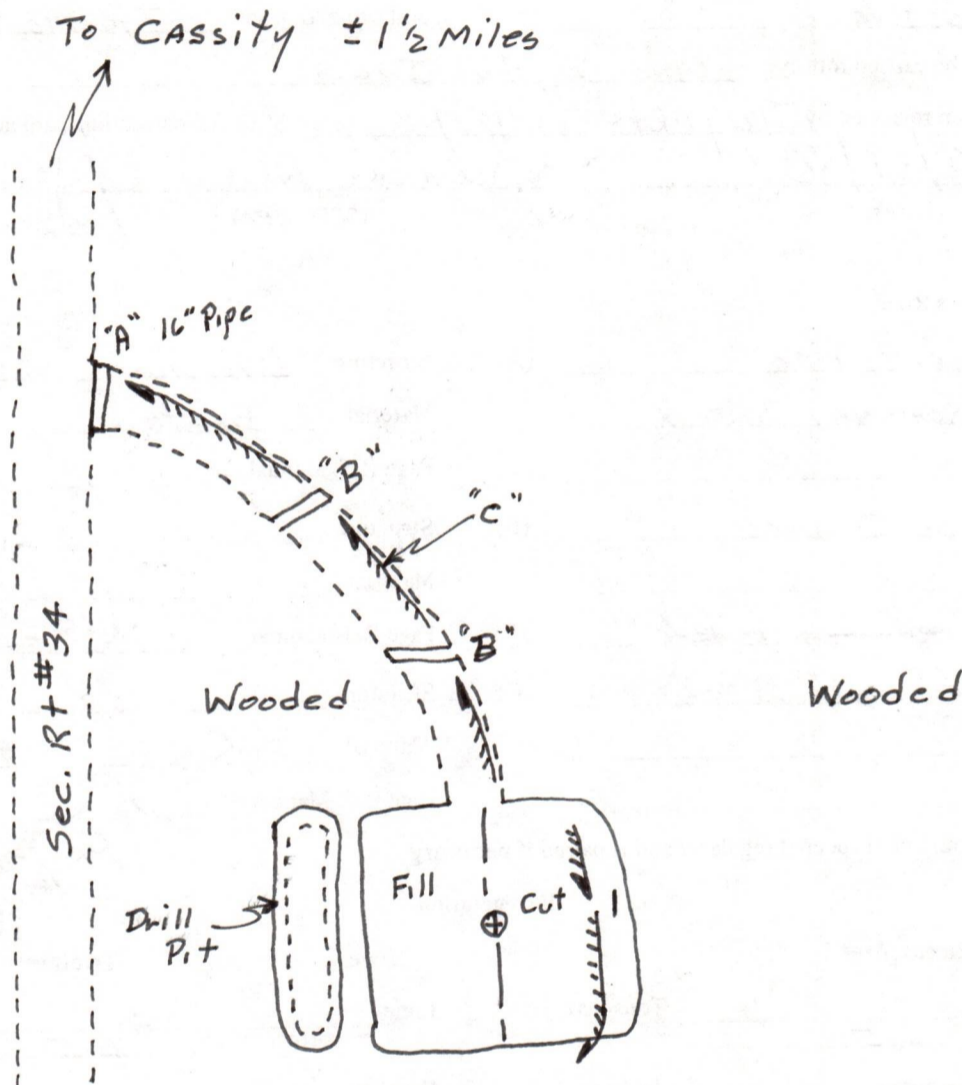
Its _____

BLANKET BOND

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.

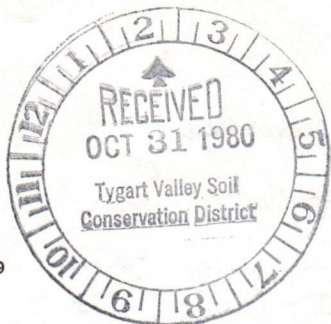


Comments: All Commercial Timber to be cut + stacked. All Brush + small Trees to be cut + Disposed of before Dirt work begins. All Slopes to be 2:1 except in Rock. Average Roadway grade ± 5%

Signature: Cervile P. Witt, RD. Drawer 40, BUCKHANNON, W.VA. 472-4610
 Agent Address Phone Number

03/22/2024

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



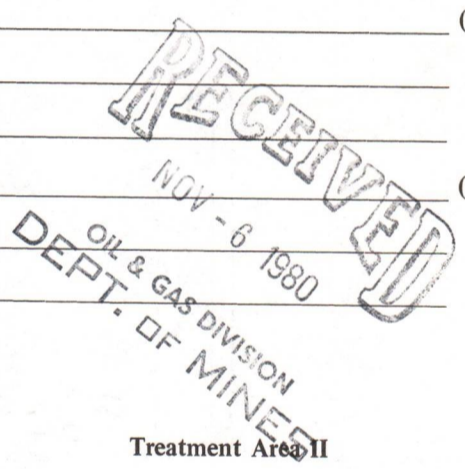
Form IV-9 (01-80)

STATE OF WEST VIRGINIA OFFICE OF OIL AND GAS

Date October 31 19 80 Well No. 1516 API No. 47 State 083 County 0388 Permit

Company Name UNION Drilling INC. Designated Agent UNION Drilling INC. Address P.O. DRAWER 40, BUCKHANNON, WVA Telephone 472-4610 Landowner West VA Co Soil Cons. District Tygarts Valley Revegetation to be carried out by UNION Drilling INC. (Agent) This plan has been reviewed by Tygarts Valley SCD. All corrections and additions become a part of this plan. 10/31/80 (Date) Junior Hedrick/Jean Freeman (SCD Agent)

Table with 2 columns: Access Road and Location. Rows include Structure, Spacing, and Page Ref. Manual for items like Culvert Pipe, Cross Drains, and Roadway Ditch.



All structures should be inspected regularly and repaired if necessary.

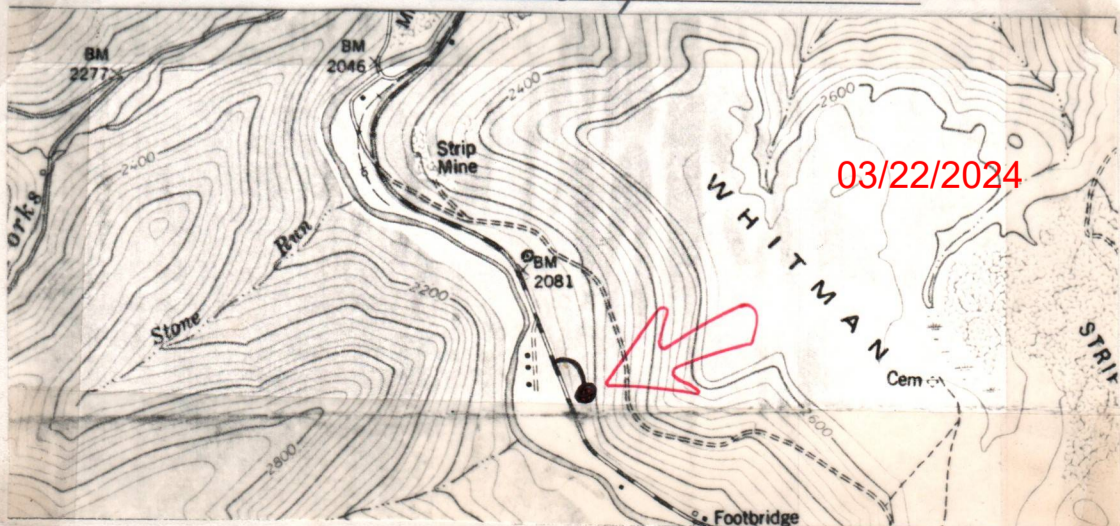
Revegetation

Table with 2 columns: Treatment Area I and Treatment Area II. Rows include Lime, Fertilizer, Mulch, and Seed* with quantities and units.

*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



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.
#16-1516-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 Mining
Page Two
(Number 11)

4. Copies of the manifest report, 00-19, and attached
attest, 00-8, if applicable, shall be sent to AMAX Coal
Company, Attention: James M. Faber.

James M. Faber
James M. Faber, Manager
Development Geology

UNITED

Department of
Coal Mining, Inc.
105 South Meridian

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

James M. Faber
James M. Faber, Manager
Development Geology

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	Remarks
Fill Dirt			0	5		
Sand			5	35		
Shale			35	92		
Coal			92	97	Coal @ 92-97'	
Sand			97	267		
Coal			267	272	Coal @ 267-272'	
Sand, Shale & Red Rock			272	856		
Big Lime			856	990		
Sand & Shale			990	997		
Big Injun			997	1104		
Sand & Shale			1104	1750		
5th Sand			1750	1808		
Sand & Shale			1808	1825		
Bayard			1825	1850		
Sand & Shale			1850	2174		
Speechly			2174	2189		
Sand & Shale			2189	2470		
Balltown			2470	2484		
Sand & Shale			2484	3236		
Benson			3236	3255		
Sand & Shale			3255	4420		
1st Elk			4420	4440		
Sand & Shale			4440	4538		
2nd Elk			4538	4558		
Sand & Shale			4558	4907 TD		

03/22/2024

Date August 6, 19 81

APPROVED UNION DRILLING, INC. Owner

By Joseph C. Petty
 Joseph C. Petty, Vice President -
 Production

RECEIVED

JAN 7 - 1982

OIL AND GAS DIVISION
WV DEPARTMENT OF MINES

State of West Virginia
Department of Mines
Oil and Gas Division

WELL RECORD

Operator's
Well No. 16A-1516

API Well No. 47- 083-0388
Harry McMullan # 16A-1516

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

Location: Elevation: 2150' 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 /
Peforate 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, 4907 feet Rotary XX / Cable Tools /
Water strata depth: Fresh 32,38, 232,296 feet; Salt; feet.
& 331 feet
Coal seam depths: 92-97', 267-272' Is coal being mined in the area? No
Work was commenced 5/16/81, and completed 5/21/81

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		20'	20'	
Fresh Water								
Coal								
Intermediate	8 5/8"		20#	X		631.38'	631.38'	180 sks.
Production Tubing	4 1/2"		10 1/2#	X		4649.25'	4649.25'	650 sks.
Liners								

Well Treatment details: HALLIBURTON WATER FRACTURE 6/04/81

Elk-----4414/16, 4532/34 -----45,000# sand ----- 371 bbls. water

Benson-----3230/34 -----45,000# sand ----- 371 bbls, water

Speechly-----2175/79 -----45,000# sand ----- 371 bbls water

03/22/2024

as: Initial open flow, Show Mcf/d Oil: Initial open flow, Bbl/d
Final open flow, 411 mcf Mcf/d Final open flow, Bbl/d
Static Rock Pressure, 1100# 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

Permit No. 003-0388

Oil or Gas Well GAS
KIND

Company	CASING AND TUBING	USED IN DRILLING	Left in Well	PACKERS
<u>Union Drilling Inc</u>				
Address <u>Buckhannon</u>	Size			
Farm <u>HARRY McMillen</u>	16			Kind of Packer
Well No. <u>16-1516-UC</u>	13			Size of
District <u>MIDDLE FORK</u> County <u>RANDOLPH</u>	<u>8 5/8</u>		<u>631</u>	<u>180SKS</u>
Drilling commenced <u>5-16-81</u>	6			Depth set
Drilling completed _____ Total depth _____	5 3/16			
Date shot _____ Depth of shot _____	3			Perf top
Initial open flow _____ /10ths Water in _____ Inch	2			Perf bottom
Open flow after tubing _____ /10ths Merc. in _____ Inch	Liners Used			Perf top
Volume _____ Cu Ft.				Perf bottom
Rock pressure _____ lbs. _____ hrs.	CASING CEMENTED <u>8 5/8</u> SIZE <u>631</u> No. FT _____ Date <u>5-18-81</u>			
Oil _____ bbls., 1st 24 hrs.	NAME OF SERVICE COMPANY <u>HALLIBURTON</u>			
Fresh water _____ feet _____ feet	COAL WAS ENCOUNTERED AT _____ FEET _____ INCHES			
Salt water _____ feet _____ feet	_____ FEET _____ INCHES _____ FEET _____ INCHES			
	_____ FEET _____ INCHES _____ FEET _____ INCHES			

Drillers' Names Union Rig #11

Remarks: Cement to surface

RECEIVED
MAY 20 1981

OIL & GAS DIVISION
DEPT. OF MINES

5-18-81
DATE

Robert Stewart 511
DISTRICT INSPECTOR
03/22/2024

STATE OF MISSISSIPPI
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		
	CEMENT-THICKNESS	WOOD-SIZE			BRIDGES	CASING AND TUBING	
PLUGS USED AND DEPTH PLACED		LEAD	CONSTRUCTION	LOCATION	RECOVERED	SIZE	LOST

Drillers' Names _____

Remarks: _____

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

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. 083-0388

Oil or Gas Well GAS
(KIND)

Company <u>UNION DRILLING INC</u>	CASING AND TUBING	USED IN DRILLING	LEFT IN WELL	PACKERS
Address <u>BUCKHANNON</u>	Size			
Farm <u>HARRY McMullen</u>	16			Kind of Packer
Well No. <u>16-1516-VC</u>	13			
District <u>MIDDLE FORK</u> County <u>RAVDOLPH</u>	10			Size of
Drilling commenced <u>5-81</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 _____

Remarks:

O.K. 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 WELLS DIVISION

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NOV 5 1981

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.

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

RECEIVED
 APR 1 1982
 OIL & GAS DIVISION
 DEPT. OF MINES

1.0 API well number: (If not available, leave blank. 14 digits.)	47-083-0388			
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.)	4534 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.			019434
	Name	P.O. Drawer 40		Seller Code
	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.)	Middle Fork District			
	Field Name	Randolph		WV 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.)	Harry McMullan #16A		1516	
(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.)	---	---	---	---
8.0 Maximum lawful rate: (As of filing date. Complete to 3 decimal places.)	---	---	---	---
9.0 Person responsible for this application:	Joseph C. Pettey, Vice President - Production			
	Name		Title	
	Signature			
	Date Application is Completed		Phone Number	
Agency Use Only		MAR 29 1982		
Date Received by Juris. Agency		(304) 472-4610		
Date Received by FERC				

PARTICIPANTS:

DATE: _____

BUYER-SELLER CODE

WELL OPERATOR: Union Drilling, Inc. **SEP**

019434

FIRST PURCHASER: Columbia Gas Trans. Corp.

9 1982 004030

OTHER: _____

W. Va. Department of Mines, Oil & Gas Division
 WELL DETERMINATION FILE NUMBER
820401-103-083-0388
 Use Above File Number on all Communications
 Relating to Determination of this Well

*1500' Radius
Checked OK*

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: 5-16-81 Date completed 5-21-81 Deepened

(5) Production Depth: 4414-16 3230-34 2175-79

(5) Production Formation: Elk, Benson, Speechly

(5) Final Open Flow: 411 MCF

(5) After Frac. R. P. 1110# 24hrs

(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 August 20, 1981

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

Operator's Well No. 16A-1516
API Well No. 47 - 083 - 0388
State County Permit

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 2150'

Watershed Middle Fork River

Dist. Middle Fork County Randolph Quad. Cassity

GAS PURCHASER Columbia Gas Trans. Corp.

ADDRESS P.O. Box 498
Washington, PA 15301

Gas Purchase Contract No. _____

Meter Chart Code _____

Date of Contract _____

Date surface drilling was begun 5/16/81

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

$L=4532 \quad \text{Avg } T = .007 L + 520 = 551.7^{\circ}\text{R}$

$G = 0.635$

$\text{BHP} = P_1 e^{GL/53.34 T} = 1213.0 \text{ PSI}$

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

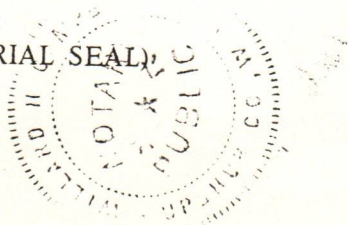
STATE OF WEST VIRGINIA,
COUNTY OF UPSHUR, TO WIT

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, 1982, 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 _____ day of 3/3, 1983. **03/22/2024**

(NOTARIAL SEAL)

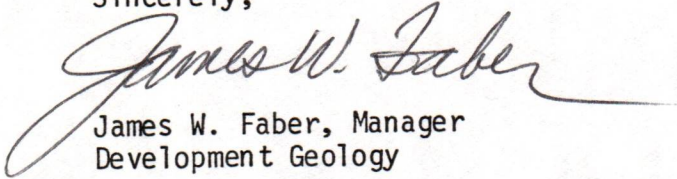


William H. Campbell
Notary Public

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,



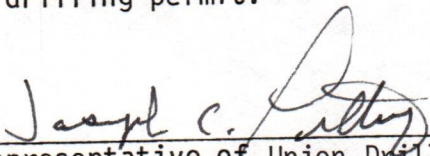
James W. Faber, Manager
Development Geology

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)