

[08-78]

Date: December 27, 1979

Operator's Well No. 2-1554-U

API Well No. 47 - 083 - 0301
State County Permit

Harry McMullan, Jr., Estate
#2 (1554-U)

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

OIL AND GAS WELL PERMIT APPLICATION

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

LOCATION: Elevation: 2089' Watershed: Middle Fork River
District: Roaring Creek County: Randolph Quadrangle: Ellamore

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
SURFACE OWNER Westvaco
Address 203 Randolph Avenue
Elkins, WV 26241
Acreage 330

COAL OWNER(S) WITH DECLARATION ON RECORD:
Name Harry McMullan, Jr. Estate
Harry McMullan, III, Agent
Address P. O. Box 8
Washington, N.C. 27889

FIELD SALE (IF MADE) TO:
Name
Address

Name
Address

OIL & GAS INSPECTOR TO BE NOTIFIED
Name Mr. Robert S. Stewart (884-7782)
Address Jane Lew, WV 26378

COAL LESSEE WITH DECLARATION ON RECORD:
Name AMAX COAL CO., 105 S. Meridean St.
Indianapolis, Ind. 4622
Address International Coal
(and) c/o Walter W. Burton, Agent
1426 Main Street
Princeton, WV 24740

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, 1975, to the undersigned well operator from Harry McMullan, Jr., Estate

[If said deed, lease, or other contract has been recorded:]
Recorded on August 29, 1975, in the office of the Clerk of the County Commission of Randolph County, West Virginia, in O/G Book 295 at page 143. 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

DEC 31 1979

OIL & GAS DIVISION
DEPT. OF MINES

UNION DRILLING, INC. 03/29/2024
Well Operator

By Joseph Pettey
Its Joseph 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, 5000 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

Table with columns: CASING OR TUBING TYPE, SPECIFICATIONS (Size, Grade, Weight, New, Used), FOOTAGE INTERVALS (For drilling, Left in well), CEMENT FILL-UP OR SACKS (Cubic feet), PACKERS (Kinds, Sizes, Depths set, 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 9-11-80.

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:

W A I V E R

The undersigned coal operator / owner / lessee / of the coal under this well location has examined 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

03/29/2024

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, 5000 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"		23#	X		1000'	1000'	to surface	
Production	4 1/2"		10 1/2#	X		5000'	5000'	400 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.

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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 revising . This permit shall expire if operations have not commenced by 11-5-80.

Robert H. [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:

W A I V E R

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Date: , 19

By
Its

03/29/2024

BLANKET BOND

Date: March 3, 19 80

Operator's Well No. 2 - 1554-U

API Well No. 47 - 083 - 0301
State County Permit

Harry McMullan, Jr., Estate #2
(1554-U)

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

LOCATION REVISED

OIL AND GAS WELL PERMIT APPLICATION

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

LOCATION: Elevation: 2375 Watershed: Middle Fork River
District: Roaring Creek County: Randolph Quadrangle: Ellamore

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, N.C. 27889

COAL OPERATOR _____
Address _____

Acreage 8,663

COAL OWNER(S) WITH DECLARATION ON RECORD:
Name Harry McMullan, Jr., Estate
Harry McMullan, III Agent

SURFACE OWNER Westvaco
Address 203 Randolph Avenue
Elkins, WV 26241

Address P. O. Box 8
Washington, N.C. 27889

Acreage 330

Name _____
Address _____

FIELD SALE (IF MADE) TO:
Name Mr. Robert S. Stewart (884-7782)
Address Jane Lew, WV 26378

COAL LESSEE WITH DECLARATION ON RECORD:
Name AMAX COAL CO., 105 S. Meridean St.
Indianapolis, Ind. 46225

OIL & GAS INSPECTOR TO BE NOTIFIED
Name _____
Address _____

Address (and) International Coal
c/o Walter W. Burton, Agent
1426 Main Street
Princeton, WV 24740

UDI Lease #765

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PROPOSED WORK: Drill / Drill deeper / Redrill / Fracture or stimulate /
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.

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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

MAR - 4 1980

03/29/2024

OIL & GAS DIVISION
DEPT. OF MINES

UNION DRILLING, INC.
Well Operator

By Joseph C. Pettey
Its Joseph C. Pettey, Production Manager

BLANKET BOND

RECLAMATION PLAN

WELL NO. 2-1554-U

QUADRANGLE Ellamore 7.5'

SCALE 1" = 2000'

Locate and show (1) Well Location (2) Access Road (3) Well Site (4) Drilling Pit and (5) Necessary Drainage Features.



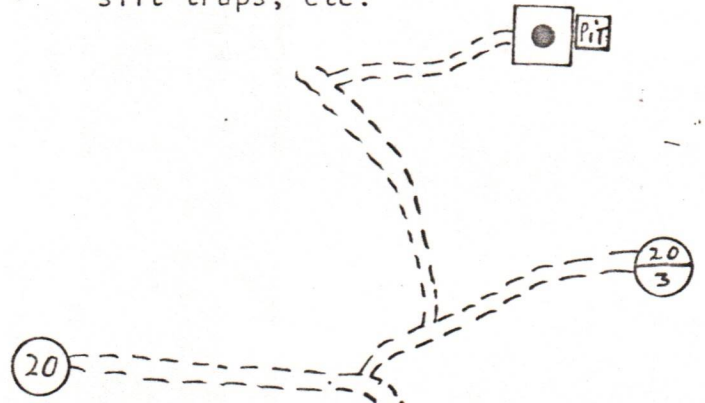
COMPANY NAME Union Drilling Inc. PERMIT NO. 083-0301-Rev

FARM Harry McMullan Jr., Est DISTRICT Roaring Creek COUNTY Randolph

STATEMENT OF RECLAMATION PLAN:

Not to scale; drawing of all roads, locations, ditches, drains, pits, silt traps, etc.

Location will be ditched to desperse water without causing erosion. Road will be culverted to prevent erosion, and provide proper drainage where needed. After well is completed, surface will be restored to its original contour or as near as possible to its original contour. Area will then be mulched down and seeded.



RECEIVED
 MAR - 4 1980
Jul
 OIL & GAS DIVISION
 DEPT. OF MINES

This plan was observed and agreed upon between the well operator, 03/29/2024 and the district oil and gas inspector.

Robert S. Stewart

Please indicate () "YES" if the district inspector was present.

"I have read and understand the reclamation requirements as set forth in Chapter 22, Article 4, Section 12-b and will carry out the specified requirements."

Submitted By: Joseph Pettey Title Production Manager Date 3/3/80

LAW OFFICES
BOWLES, McDAVID, GRAFF & LOVE

1200 COMMERCE SQUARE

P. O. BOX 1386

CHARLESTON, WEST VIRGINIA 25325

AREA CODE (304) 344-9621

COUNSEL
DONALD O. BLAGG
M. HARPER MAUZY
ARTHUR G. STONE

PAUL N. BOWLES
WILLIAM R. McDAVID
F. T. GRAFF, JR.
CHARLES M. LOVE, III
P. MICHAEL PLESKA
ROGER W. TOMPKINS, II
GARY G. MARKHAM
CARL D. ANDREWS
RICKLIN BROWN
J. THOMAS LANE
GERARD R. STOWERS
P. NATHAN BOWLES, JR.
THOMAS B. BENNETT
SARAH E. SMITH
RICHARD M. FRANCIS
WILLIAM H. SCHARF
GEORGE A. PATTERSON, III
LEA E. ANDERSON

March 20, 1980

MAR 20 1980

OIL & GAS DIVISION
DEPT. OF MINES

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

Gentlemen:

We represent International Coal Company, coal lessee of Neva S. McMullan (formerly Harry McMullan, Jr. Estate). We have received and reviewed the applications for drill permits filed by Union Drilling, Inc. for operator's Well Nos. 6-1548-U, 9-1551-U, 8-1550-U and 2-1554-U. International Coal Company has no objections to these locations; however, please note that future notices should be addressed to International Coal Company at 119 West Washington Street, Lewisburg, West Virginia 24901, with copies to F. T. Graff, Jr., P. O. Box 1386, Charleston, West Virginia 25325.

Yours very truly,

F. T. Graff, Jr.
F. T. Graff, Jr.

Ran-301

FTG/pmd

cc: International Coal Company
Union Drilling, Inc.

03/29/2024

AMAX **COAL COMPANY**
A DIVISION OF AMAX INC.
105 SOUTH MERIDIAN STREET, INDIANAPOLIS, INDIANA 46225 • [317] 266-2626

March 7, 1980

RECEIVED
MAR 10 1980


Chief Petroleum Engineer
Department of Mines
Oil & Gas Division
1616 Washington Street, East
Charleston, West Virginia 25311

OIL & GAS DIVISION
EPT. OF MINE

Dear Sir:

Enclosed is a copy of the AMAX Coal Company letter of approval that has been sent to the respective oil company, for their representative's signature. When you receive the signed version, that will automatically give AMAX's permission for issuing the permit. The signed copy is the agreement by the oil operator that they agree to AMAX's stipulations for drilling and completing the well.

Cordially,


Robert J. Reynolds,
Senior Geologist

for James W. Faber, Manager
Development Geology

RJR/mdt

Enclosures

03/29/2024

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

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

January 4, 1980

RECEIVED
JAN 10 1980

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

OIL & GAS DIVISION
DEPT. OF MINES

Re: Permit Application - Union Drilling, Inc.
Operators Well #2-1554-U
Roaring Creek District
Randolph County, West Virginia

Dear Sirs:

The AMAX Coal Company has received notification that a permit has been issued 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. AMAX will be given at least 72 hours notice prior to plugging a dry hole or setting production string in a productive well. Please contact Mr. David Darko (317/266-2633) or Mr. James Faber (317/266-2797).
4. A complete drillers' log of the well from surface to total depth shall be sent to AMAX upon completion of the hole and a copy of such log shall be made available to any AMAX representative upon his arrival at the well site.

03/29/2024

Department of Mines
Page Two
January 4, 1980

5. Union Drilling, Inc., will provide AMAX with a density and natural gamma log covering the interval from total depth to 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.

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

Sincerely,



Robert J. Reynolds,
Senior Geologist

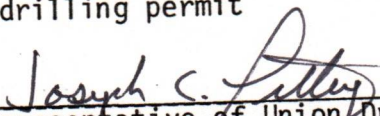
for James W. Faber, Manager
Development Geology

RJR/mdt

Enclosures

cc: Union Drilling, Inc.
C. W. Porterfield
David Darko

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


Representative of Union Drilling, Inc.

1-9-80
(Date)

03/29/2024

AMAX COAL COMPANY
A DIVISION OF AMAX INC.

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

March 7, 1980

Ran-301

RECEIVED

MAR 11 1980

OIL & GAS DIVISION
DEPT. OF MINES

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

Re: Permit Application - Union Drilling, Inc.
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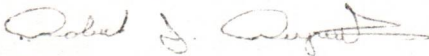
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03/29/2024

Department of Mines
Page Two
March 7, 1980

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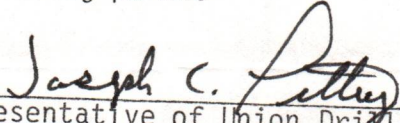


Robert J. Reynolds,
Senior Geologist

for James W. Faber, Manager
Development Geology

RJR/mdt
Enclosures
cc: Union Drilling, Inc.
David Darko

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


Representative of Union Drilling, Inc.

3-10-80
(date)

03/29/2024

[08-78]

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

Producing formation Alexander Pay zone depth 4152' feet

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

Final open flow, 300 Mcf/d Final open flow, ---- Bbl/d

Time of open flow between initial and final tests, ? hours

Static rock pressure, 710 psig (surface measurement) after 24 hours shut in

[If applicable due to multiple completion--]

Second producing formation Elk Pay zone depth 4971' feet

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

Final open flow, 300 Mcf/d Final open flow, --- Bbl/d

Time of open flow between initial and final tests, ? hours

Static rock pressure, 710 psig (surface measurement) after 24 hours shut in

Water Fracture - 4/14/80

Bayard	---	250 Bbls.	---	30,000# Sand
Riley	---	375 Bbls.	---	39,000# Sand
Alexander	---	455 Bbls.	---	45,000# Sand
Elk	---	663 Bbls.	---	57,000# Sand

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			0	116'	½" Water @ 40'
Sand & Shale			116	188	
Sand			188	315	
Coal			315	318	Coal @ 315-318'
Sand & Shale			318	335	
Sand			335	790	
Sand & Shale			790	926	
Sand			926	954	
Sand & Shale & Red Rock			954	1143	
Big Lime			1143	1280	
Injun			1280	1374	
Sand & Shale			1374	2018	
Bayard			2018	2077	
Sand & Shale			2077	3413	
Riley			3413	3530	
Sand & Shale			3530	3688	
Benson			3688	3705	
Sand & Shale			3705	4149	
Alexander			4149	4152	
Shale			4152	4938	
Elk			4938	4971	
Shale			4971	5279 TD	

(Attach separate sheets to complete as necessary)

UNION DRILLING, INC.

Well Operator

By

Joseph C. Petty

03/29/2024

Its Joseph C. Petty, Production Manager

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 coal, encountered in the drilling of a well."

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

WELL OPERATOR'S REPORT g
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: 2375' Watershed: Middle Fork River
District: Roaring Creek County: Randolph Quadrangle: Ellamore

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 X / Convert ___ / Drill deeper ___ / Redrill ___ / Fracture or stimulate X
Plug off old formation ___ / Perforate new formation ___
Other physical change in well (specify) _____

PERMIT ISSUED ON March 4, 19 80, OIL & GAS INSPECTOR FOR THIS WORK:
(IF APPLICABLE: PLUGGING OF DRY HOLE ON CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED) Name Robert S. Stewart
Address Jane Lew, WV 26378

GEOLOGICAL TARGET FORMATION: Elk Depth 5000' feet
Depth of completed well, 5279' feet Rotary X / Cable Tools ___
Water strata depth: Fresh, 1/2" @ 40' feet; salt, ___ feet.
Coal seam depths: 315-318' Is coal being mined in the area? No
Work was commenced March 25, 19 80, and completed April 1, 19 80

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		
Conductor	11 3/4"			X		16'	16'	Kinds
Fresh water								
Coal								Sizes
Intermediate	8 5/8"	20#		X		996.95'	996.95'	250 sks.
Production	4 1/2"	10 1/2"		X		5109.50'	5109.50'	725 sks.
Tubing								
Liners								Perforations:
								2018/20 2075/77
								3413/15 3466/68
								3528/30 4149/52
								4938/40 4953/56
								4968/71

OPEN FLOW DATA

Producing formation Bayard Pay zone depth 2077' feet
Gas: Initial open flow, Show Mcf/d Oil: Initial open flow, ___ Bbl/d
Final open flow, 200 Mcf/d Final open flow, ___ Bbl/d
Time of open flow between initial and final tests, ? hours
Static rock pressure, 710 psig (surface measurement) after 24 hours shut in

[If applicable due to multiple completion--]
Second producing formation Riley Pay zone depth 03/28/2024 feet
Gas: Initial open flow, Show Mcf/d Oil: Initial open flow, ___ Bbl/d
Final open flow, 200 Mcf/d Final open flow, ___ Bbl/d
Time of open flow between initial and final tests, ? hours
Static rock pressure, 710 psig (surface measurement) after 24 hours shut in

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

RECEIVED

MAR 26 1980

INSPECTOR'S WELL REPORT

OIL & GAS DIVISION
DEPT. OF MINES

Permit No. 083-0301

Oil or Gas Well GAS
(KIND)

Company <u>UNION DRILLING INC</u>	CASING AND TUBING	USED IN DRILLING	Left in Well	PACKERS
Address <u>BUCK HANNON</u>	Size			
Farm <u>HARRY McMILLAN</u>	16			Kind of Packer
Well No. <u>2-1554-U</u>	13			
District <u>ROARING CREEK</u> County <u>RANDOLPH</u>	10			Size of
Drilling commenced <u>3-24-80</u>	8 1/4			
Drilling completed _____ Total depth _____	6 3/4			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 DRIG RiG-1

Remarks:

Move RiG - SPUD

3-24-80
DATE

Robert St... 03/29/2024 511
DISTRICT WELL INSPECTOR

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

03/29/2024
 DISTRICT WELL INSPECTOR

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

RECEIVED

MAR 31 1980

INSPECTOR'S WELL REPORT

OIL & GAS DIVISION
DEPT. OF MINES

Permit No. 083-0301

Oil or Gas Well GAS
(KIND)

Company	CASING AND TUBING	USED IN DRILLING	Left in Well	PACKERS
<u>UNION DRILLING INC</u>				
Address <u>BUCK HANNON</u>	Size			
Farm <u>HARRY McMILLAN</u>	16			Kind of Packer
Well No. <u>2-1554-U</u>	13			
District <u>ROARING CREEK</u> County <u>RANDOLPH</u>	10			Size of
Drilling commenced <u>3-24-80</u>	<u>8 5/8</u>		<u>997</u>	<u>250 SKS</u>
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 <u>8 5/8</u> SIZE <u>997</u> No. FT. _____ Date <u>3-28-80</u>			
Fresh water _____ feet _____ feet	NAME OF SERVICE COMPANY <u>Dowell</u>			
Salt water _____ feet _____ feet	COAL WAS ENCOUNTERED AT _____ FEET _____ INCHES			
	_____ FEET _____ INCHES _____ FEET _____ INCHES			
	_____ FEET _____ INCHES _____ FEET _____ INCHES			

Drillers' Names UNION DRIG RIG - 1

Remarks:

Cement to SURFACE

3-28-80

DATE

Robert Stum 03/29/2024 511
DISTRICT WELL INSPECTOR

**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

03/29/2024
DISTRICT WELL INSPECTOR

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

RECEIVED

OCT 24 1980

INSPECTOR'S WELL REPORT

OIL & GAS DIVISION
DEPT. OF MINES

Permit No. 083-0301

Oil or Gas Well COAL
(KIND)

Company	CASING AND TUBING	USED IN DRILLING	Left in Well	PACKERS
<u>Union Drilling Inc</u>				
<u>Buckhannon</u>	Size			
<u>HARRY McMullen</u>	16			Kind of Packer
<u>2-1554-U</u>	13			Size of
<u>Roaring Creek</u> County <u>RANDOLPH</u>	10			Depth set
<u>3-24-80</u>	8 1/4			Perf. top
	6 3/4			Perf. bottom
	5 3/16			Perf. top
	3			Perf. bottom
	2			Perf. top
	Liners Used			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	FEET	INCHES

Drillers' Names _____

Remarks:

O.K. To Release

10-22-80

Robert Stewart 511
03/29/2024

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

INSPECTOR'S PLUGGING REPORT

Permit No. _____ Well No. 10-55-80
 COMPANY CHS 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							

Inspectors' Names _____
 Remarks: _____

I hereby certify I visited the above well on this date.
 DATE 03/29/2024
Robert A. Stewart
10-55-80



State of West Virginia

Department of Mines

Oil and Gas Division

Charleston 25305

WALTER N. MILLER
DIRECTOR

January 16, 1981

Union Drilling, Inc.
P. O. Drawer 40
Buckhannon, WV 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:

- 083-0301 - Harry McMullan Farm - Well No. 2-1554-U - Roaring Creek - Randolph
- 083-0308 - Mike Ross Farm - Well No. 1-1588-U - Roaring Creek - Randolph
- 083-0310 - Harry McMullan Farm - Well No. 6-1548-U - Roaring Creek - Randolph
- 083-0315 - Lucille Tallman Farm - Well No. 2-1525-UC - Roaring Creek - Randolph
- 097-1956 - Mildred C. Potter - Well No. 1-1534-UC - Washington District - Upshur

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

03/29/2024

RECEIVED

MAY 13 1980

<p>1.0 API well number: (If not available, leave blank. 14 digits.)</p>	<p>47-083-0301</p>												
<p>2.0 Type of determination being sought: (Use the codes found on the front of this form.)</p>	<p>103 Section of NGPA</p> <p>N/A Category Code</p>												
<p>3.0 Depth of the deepest completion location: (Only needed if sections 103 or 107 in 2.0 above.)</p>	<p>4971' feet</p>												
<p>4.0 Name, address and code number of applicant: (35 letters per line maximum. If code number not available, leave blank.)</p>	<p>UNION DRILLING, INC. 019434 Name Seller Code</p> <p>P.O. Drawer 40</p> <p>Buckhannon, WV 26201 Street State Zip Code</p> <p>Buckhannon, WV 26201 City State Zip Code</p>												
<p>5.0 Location of this well: [Complete (a) or (b).] (a) For onshore wells (35 letters maximum for field name.)</p>	<p>Roaring Creek District Field Name</p> <p>Randolph WV County State</p>												
<p>(b) For OCS wells:</p>	<p>Area Name Block Number</p> <p>Date of Lease: Mo. Day Yr. OCS Lease Number</p>												
<p>(c) Name and identification number of this well: (35 letters and digits maximum.)</p>	<p>Harry McMullan, Jr. Est. #2 1554</p>												
<p>(d) If code 4 or 5 in 2.0 above, name of the reservoir: (35 letters maximum.)</p>	<p>_____</p>												
<p>6.0 (a) Name and code number of the purchaser: (35 letters and digits maximum. If code number not available, leave blank.)</p>	<p>Columbia Gas Transmission Corp. 004030 Name Buyer Code</p>												
<p>(b) Date of the contract:</p>	<p>Mo. Day Yr.</p>												
<p>(c) Estimated annual production:</p>	<p>Not in production yet MMcf.</p>												
<p>7.0 Contract price: (As of filing date. Complete to 3 decimal places.)</p>	<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width:25%;">(a) Base Price (\$/MMBTU)</th> <th style="width:25%;">(b) Tax</th> <th style="width:25%;">(c) All Other Prices [Indicate (+) or (-).]</th> <th style="width:25%;">(d) Total of (a), (b) and (c)</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">2.221</td> <td style="text-align: center;">---</td> <td style="text-align: center;">---</td> <td style="text-align: center;">2.221</td> </tr> <tr> <td style="text-align: center;">2.221</td> <td style="text-align: center;">---</td> <td style="text-align: center;">---</td> <td style="text-align: center;">2.221</td> </tr> </tbody> </table>	(a) Base Price (\$/MMBTU)	(b) Tax	(c) All Other Prices [Indicate (+) or (-).]	(d) Total of (a), (b) and (c)	2.221	---	---	2.221	2.221	---	---	2.221
(a) Base Price (\$/MMBTU)	(b) Tax	(c) All Other Prices [Indicate (+) or (-).]	(d) Total of (a), (b) and (c)										
2.221	---	---	2.221										
2.221	---	---	2.221										
<p>8.0 Maximum lawful rate: (As of filing date. Complete to 3 decimal places.)</p>	<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width:25%;">(a) Base Price (\$/MMBTU)</th> <th style="width:25%;">(b) Tax</th> <th style="width:25%;">(c) All Other Prices [Indicate (+) or (-).]</th> <th style="width:25%;">(d) Total of (a), (b) and (c)</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">2.221</td> <td style="text-align: center;">---</td> <td style="text-align: center;">---</td> <td style="text-align: center;">2.221</td> </tr> <tr> <td style="text-align: center;">2.221</td> <td style="text-align: center;">---</td> <td style="text-align: center;">---</td> <td style="text-align: center;">2.221</td> </tr> </tbody> </table>	(a) Base Price (\$/MMBTU)	(b) Tax	(c) All Other Prices [Indicate (+) or (-).]	(d) Total of (a), (b) and (c)	2.221	---	---	2.221	2.221	---	---	2.221
(a) Base Price (\$/MMBTU)	(b) Tax	(c) All Other Prices [Indicate (+) or (-).]	(d) Total of (a), (b) and (c)										
2.221	---	---	2.221										
2.221	---	---	2.221										
<p>9.0 Person responsible for this application:</p>	<p>Joseph C. Pettey Production Manager Name Title</p> <p><i>Joseph C. Pettey</i> Signature</p> <p>May 8, 1980 (304) 472-4610 Date Application is Completed Phone Number</p>												

Agency Use Only
Date Received by Juris. Agency MAY 13 1980
Date Received by FERC

03/29/2024

REGISTRATION:

DATE: NOV 19 1980

EXPLORATION PERMIT NO.

WELL OPERATOR: Union Drilling, Inc.

019434

FIRST PURCHASER: Columbia Gas Trans. Corp.

004030

OTHER:

U.S. Department of Mines, Oil & Gas Division
WELL DETERMINATION FILE NUMBER

800513-103-083-0301

Computer OK.
CK map

Qualifies JEHuzzey

Use Above File Number on all Communications
Relating To Determination of this Well

CHECK EACH ITEM AS COMPLETE OR NOTE WHAT IS MISSING

ITEM NO.

- 1. FERC-121 Items not completed - Line No. _____
- 2. IV-1 Agent H.R. Rawson
- 3. IV-2 Well Permit
- 4. IV-6 Well Plat
- 5. IV-35 Well Record Drilling Seeping _____
- 6. IV-36 Gas-Oil Test: Gas Only _____ Was Oil Produced? _____ Ratio _____
- 7. IV-39 Annual Production No Prod years
- 8. IV-40 90 day Production _____ Days off line: _____
- 9. IV-45 Application for certification. Complete? _____
- 10. IV Form 31 - 32 - 33 - 34 - 35 - 36 - 37 - 38 Complete?
- 11. IV-46 Papers: Survey _____ Maps _____ Geological Charts _____
- 12. Structure Map _____ 1:4000 Map _____ Well Connections _____
- 13. Gas Analyses _____
- 14. Date commenced: 3/25/80 Date completed 4/1/80 Depth _____
- 15. Production Depth: 2077; 3530
- 16. Production Formations: Bayard; Riley
- 17. Final Open Flow: 200 mcf/d
- 18. After Free. B.P. 710 #
- 19. Other Gas Tests: _____
- 20. Avg. Daily Gas from Annual Production: No Prod
- 21. Avg. Daily Gas from 90-day ending w/1 - 100 days 11 4
- 22. Line Pressure: None 03/29/2024
- 23. Oil Production: No From Completion Report _____
- 24. Does lease inventory indicate enhanced recovery being done? No
- 25. Is affidavit signed? Required? _____

Does official well record with the Department confirm the submitted information? Yes
Additional Information: _____ Does computer program confirm? PL
Determination of well status: _____

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

Operator's Well No. 2-1554-U
API Well No. 47 - 083 - 0301
State County Permit

WELL CLASSIFICATION FORM
NEW ONSHORE PRODUCTION WELL
NGPA Section 103

DESIGNATED AGENT UNION DRILLING, INC.
ADDRESS P.O. DRAWER 40
BUCKHANNON, W.Va. 26201

WELL OPERATOR UNION DRILLING, INC.
ADDRESS P.O. DRAWER 40
BUCKHANNON, W.Va. 26201

LOCATION: Elevation 2375'
Watershed Middle Fork River
Dist. Roaring Creek County Randolph Quad. Ellamore

GAS PURCHASER COLUMBIA GAS TRANS. CORP.
ADDRESS ATTN Bili Gallagher
P.O. Box 498
Washington, Pa. 15301

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

Date surface drilling was begun: 3/25/80

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

5279 - well depth
1.35 - X.35
1.847 - bottom hole pressure

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, R. Dennis Xander, 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 8th day of May, 1980, has acknowledged the same before me, in my county aforesaid. Given under my hand and official seal this 8th day of May, 1980. My term of office expires on the 2nd day of February, 1986.

R. Dennis Xander
Notary Public

[NOTARIAL SEAL]



03/29/2024