



1) Date: May 18, 19 83
 2) Operator's Well No. 22A = 1883
 3) API Well No. 47 083 0780
 State County Permit

DRILLING CONTRACTOR:
Union Drilling, Inc.
P. O. Drawer 40
Buckhannon, WV 26201

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES, OIL AND GAS DIVISION
Harry McMullan #22A (1883)
OIL AND GAS WELL PERMIT APPLICATION

- 4) WELL TYPE: A Oil / Gas XX /
 B (If "Gas", Production XX / Underground storage / Deep / Shallow XX /)
- 5) LOCATION: Elevation: 2235 Watershed: Middle Fork River
 District: Middle Fork County: Randolph Quadrangle: Cassity
- 6) WELL OPERATOR Union Drilling, Inc. 11) DESIGNATED AGENT Joseph C. Vanzant, Jr.
 Address P. O. Drawer 40 Address P. O. Drawer 40
Buckhannon, WV 26201 Buckhannon, WV 26201
- 7) OIL & GAS ROYALTY OWNER Harry McMullan, Jr. Estate 12) COAL OPERATOR
 Address Harry McMullan, III, Agent Address
P. O. Box 8
 Acreage Washington, NC 27889
- 8) SURFACE OWNER Westvaco Corp. 13) COAL OWNER(S) WITH DECLARATION ON RECORD:
 Address 203 Randolph Ave. Name AMAX Coal Company
Elkins, WV 26241 Address 105 S. Meridian Street
 Acreage 916 Indianapolis, IN 46225
 Name
 Address
- 9) FIELD SALE (IF MADE) TO:
 Address Not Determined at this time
- 10) OIL & GAS INSPECTOR TO BE NOTIFIED
 Name Robert Stewart - 884-7782
 Address P. O. Box 345
Jane Lew, WV 26378
- 15) PROPOSED WORK: Drill XX / Drill deeper / Redrill / Fracture or stimulate XX /
 Plug off old formation / Perforate new formation /
 Other physical change in well (specify)
- 16) GEOLOGICAL TARGET FORMATION, Elk
- 17) Estimated depth of completed well, 5300 feet
 18) Approximate water strata depths: Fresh, ? feet; salt, ? feet.
 19) Approximate coal seam depths: ? Is coal being mined in the area? Yes XX / No
- 20) CASING AND TUBING PROGRAM

RECEIVED
 JUN - 9 1983
 OIL & GAS DIVISION
 DEPT. OF MINES

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	8 5/8		23#	X		900'	900'	to surface		Sizes
Intermediate	4 1/2		10 1/2#	X		5300'	5300'	400 sks. or		Depths set
Production								as required		
Tubing										
Liners										Perforations:
										Top Bottom

- 21) EXTRACTION RIGHTS
 Check and provide one of the following:
 Included is the lease or leases or other continuing contract or contracts by which I hold the right to extract oil or gas.
 The requirement of Code 22-4-1-(c) (1) through (4). (See reverse side for specifics.)
- 22) ROYALTY PROVISIONS
 Is the right to extract, produce or market the oil or gas based upon a lease or other continuing contract or contracts providing for flat well royalty or any similar provision for compensation to the owner of the oil or gas in place which is not inherently related to the volume of oil or gas so extracted, produced or marketed? Yes No
- If the answer above is No, nothing additional is needed. If the answer is Yes, you may use Affidavit Form IV-60.
- 23) Required Copies (See reverse side.)
- 24) 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.
- Notary: Sharon L. Stetson Signed: Dean H. Bucher
 My Commission Expires May 22, 1989 Its: Dean H. Bucher, Geologist
 Commissioned as Sharon L. Kelley

OFFICE USE ONLY
DRILLING PERMIT
 Permit number 47-083-0780 Date July 11, 19 83
10/13/2023

This permit covering the well operator and well location shown below is evidence of permission granted to drill in accordance with the pertinent legal requirements subject to the conditions contained herein and on the reverse hereof. **Notification must be given to the District Oil and Gas Inspector. (Refer to No. 10) Prior to the construction of roads, locations and pits for any permitted work.** In addition, the well operator or his contractor shall notify the proper district oil and gas inspector 24 hours before actual permitted work has commenced.)

Permit expires March 11, 1984 unless drilling is commenced prior to that date and prosecuted with due diligence.

Bond: <u>B</u>	Agent: <u> </u>	Plat: <u> </u>	Casing: <u> </u>	Fee: <u>005</u> <u>955</u>
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Michael Lewis
 Administrator, Office of Oil and Gas

Line Item Explanation

- 1) Date of Application
- 2) Your well name and number
- 3) To be filled out by office of oil & gas
- 4A) "Oil" means natural crude oil or petroleum and other hydrocarbons, regardless of gravity, which are produced at the well in liquid form by ordinary production methods and which are not the result of condensation of gas after it leaves underground reservoirs; "Gas" means all natural gas and all other fluid hydrocarbons not defined as oil.
- 4B) "Shallow well" means any well drilled and completed in a formation above the top of the uppermost member of the "Onondaga Group" or a depth less than six thousand feet, whichever is shallower.
"Deep well" means any well drilled and completed in a formation at or below the top of the uppermost member of the "Onondaga Group" or at a depth less than six thousand feet, whatever is shallower.
- 5) Where well is located
- 6) Before a permit can be issued in a corporation, company partnership, or fictitious name, the name must be registered with the Secretary of State Office
- 7) Use separate sheet if necessary
- 8) Present surface owner at time application is filed.
- 9) Optional
- 11) See Reg. 7.01 relating to code §22-4-1k
- 12) "Coal Operator" means any persons, firm, partnership, partnership association or corporation that proposes to or does operate a coal mine. See Note 24
- 13 & 14) As per §22-4-20; See Note 24
- 15) Work that will be attempted—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.
- 16) Anticipated formation for which well will be completed
- 17) Self explanatory
- 18) Depth to deepest freshwater, and shallowest salt water, taken from nearby wells corrected for differences in elevation
- 19) All coal seam depths
- 20) Proposed casing program and cementing refer to Code 22-4-5, 22-4-6, 22-4-7, 22-4-8, 22-4-8a Reg 9.01, 15.01, 15.02, 15.03, 15.04, 25.01, 25.02, 25.03, 25.04
- 21) Code 22-4-11(c) - In lieu of filing the lease or leases or other continuing contract or contracts, the applicant for a permit described herein may file the following:
 - (1) A brief description of the tract of land including the district and county wherein the tract is located;
 - (2) The identification of all parties to all leases or other continuing contractual agreements by which the right to extract, produce or market the oil or gas is claimed;
 - (3) The book and page number wherein each such lease or contract by which the right to extract, produce or market the oil or gas is recorded;
 - (4) A brief description of the royalty provisions of each such lease or contract.
- 22) Code 22-4-11(d) and 22-4-11(e).
- 23) 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.
- 24) **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.**

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 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.

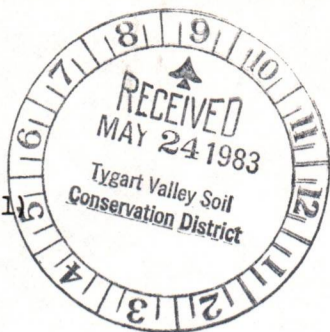
10/13/2023

Date: _____, 19____

By _____

Its _____

IV-9
(Rev 8-81)



DATE 5-23-83

WELL NO. 1883

State of West Virginia API NO. 47 - 083 - 0780

Department of Mines
Oil and Gas Division

CONSTRUCTION AND RECLAMATION PLAN

COMPANY NAME UNION DRILLING, INC.
Address P. O. Drawer 40
Telephone Buckhannon, WV 26201

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

LANDOWNER WestValco

SOIL CONS. DISTRICT Tygart Valley

Revegetation to be carried out by Union Drilling, Inc. (Joseph C. Pettey, VP) Agent

This plan has been reviewed by Tygart Valley SCD. All corrections and additions become a part of this plan: 5-24-83

(Date)
Junior Hedrick
(SCD Agent)

ACCESS ROAD

LOCATION

Structure Culvert Pipe (12" MIN) (A)

Structure Diversion (1)

Spacing At Natural Drains

Material Earthen

Page Ref. Manual _____

Page Ref. Manual _____

Structure Cross Drains (B)

Structure _____ (2)

Spacing 250' -

Material _____

Page Ref. Manual _____

Page Ref. Manual _____

Structure Roadway Ditch (C)

Structure _____ (3)

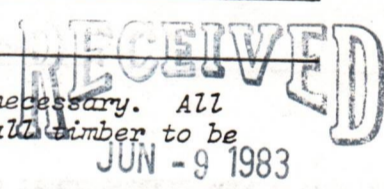
Spacing _____

Material _____

Page Ref. Manual _____

Page Ref. Manual _____

All structures should be inspected regularly and repaired if necessary. All commercial timber is to be cut and stacked and all brush and small timber to be cut and removed from the site before dirt work begins.



REVEGETATION

Treatment Area I

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

OIL & GAS DIVISION
DEPT. OF MINES
Treatment Area II

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

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

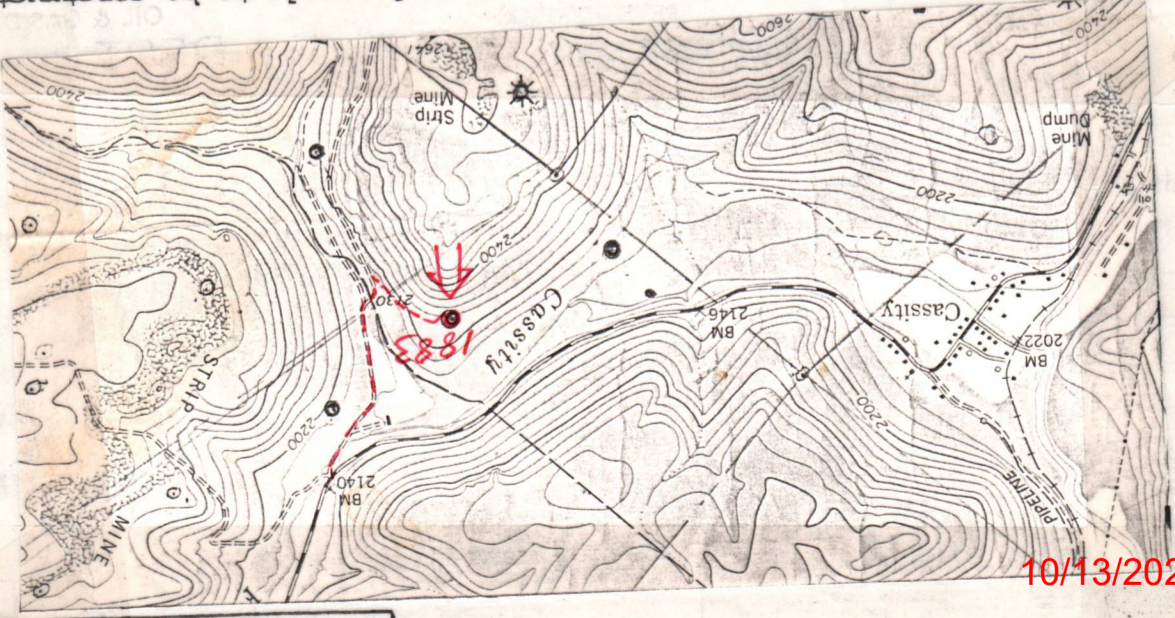
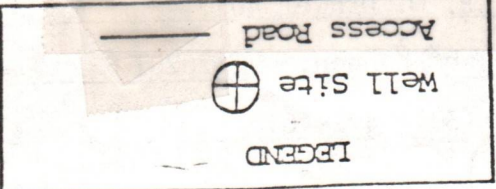
PLAN PREPARED BY Wanny O. Morgan 10/13/2023

ADDRESS P. O. Drawer 40
Buckhannon, WV 26201

PHONE NO. (304) 472-4610

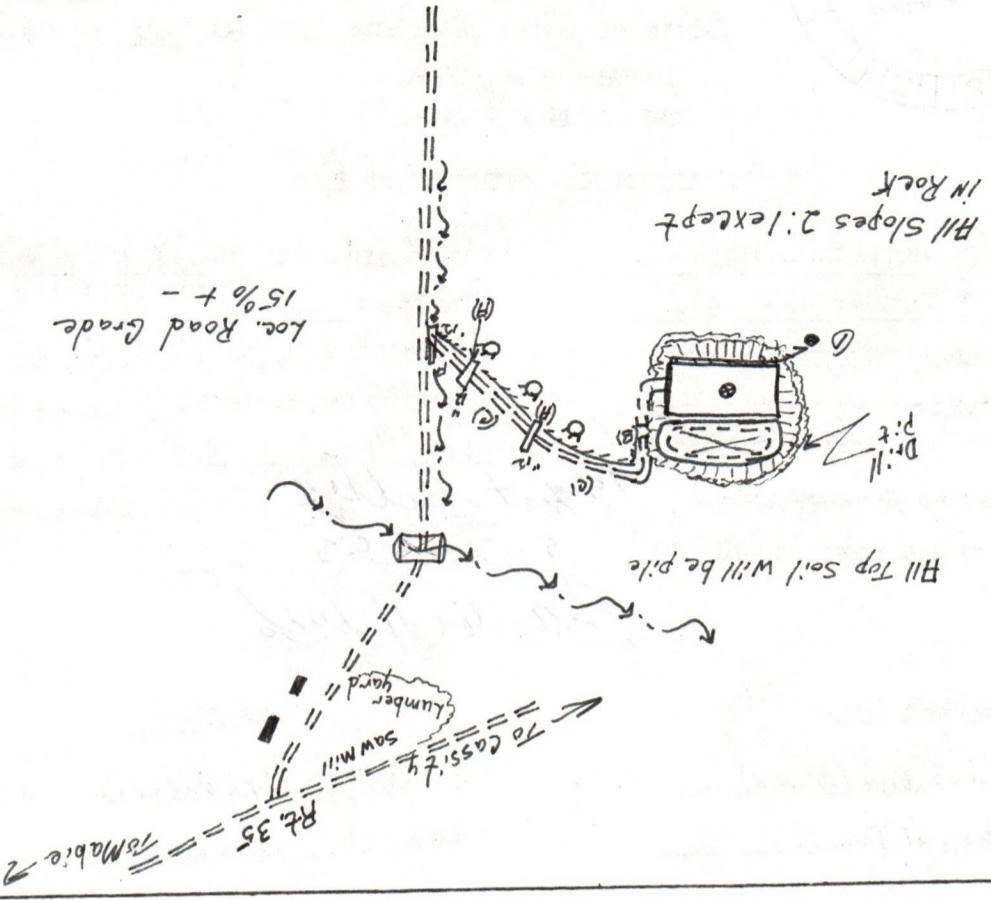
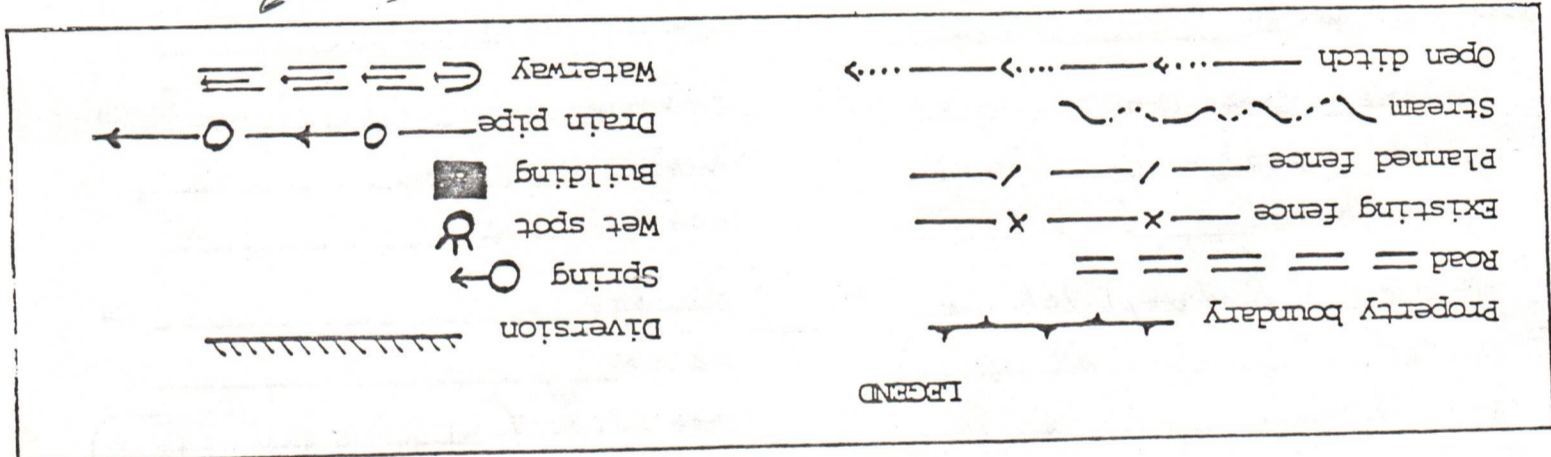
NOTES: Please request landowner's cooperation to protect new seedling for one growing season. Attach separate sheets as necessary for comments.

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



10/13/2023

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



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

RECEIVED

AUG 22 1983

INSPECTOR'S WELL REPORT

OIL & GAS DIVISION
DEPT. OF MINES
Oil or Gas Well _____
(KIND)

Permit No. 083-0780

Company Union Drilling

Address _____

Farm Harry McMullen

Well No. 22 A-1883

District Middle Fork County Randolph

Drilling commenced _____

Drilling completed _____ Total depth 4650

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: Drilling at 4650

Aug 15, 83
DATE

Philip Dreyer
DISTRICT WELL INSPECTOR
10/13/2023

RECEIVED
AUG 22 1983

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

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

Permit No. 083-780

Oil or Gas Well _____
(KIND)

Company	CASING AND TUBING	USED IN DRILLING	LEFT IN WELL	PACKERS
<u>Union Drilling</u>	Size			
Address _____	16			Kind of Packer _____
Farm <u>Warry Mc Miller</u>	13			
Well No. <u>22 A-1883</u>	10			Size of _____
District <u>Miller Fork County Randolph</u>	8 1/4			
Drilling commenced _____	6%			Depth set _____
Drilling completed _____ Total depth <u>5400</u>	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 _____ SIZE _____ No. FT. _____ Date _____			
Oil _____ bbls., 1st 24 hrs.	NAME OF SERVICE COMPANY _____			
Fresh water _____ feet _____ feet	COAL WAS ENCOUNTERED AT _____ FEET _____ INCHES			
Salt water _____ feet _____ feet	_____ FEET _____ INCHES _____ FEET _____ INCHES			
	_____ FEET _____ INCHES _____ FEET _____ INCHES			

Drillers' Names _____

Remarks: D.N. Well 8-16-83

Aug 16-83
DATE

Phillip Long
DISTRICT WELL INSPECTOR

10/13/2023

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IV-35
(Rev 8-81)

SEP 12 1983



OIL & GAS DIVISION
DEPT. OF MINES

State of West Virginia
Department of Mines
Oil and Gas Division

Date May 21, 1983
Operator's
Well No. 22A-1883
Farm Harry McMullan #22A
API No. 47 - 083 - 0780

WELL OPERATOR'S REPORT
OF
DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

WELL TYPE: Oil ___ / Gas X / Liquid Injection ___ / Waste Disposal ___ /
(If "Gas," Production X / Underground Storage ___ / Deep ___ / Shallow X /)

LOCATION: Elevation: 2235' Watershed Middle Fork River
District: Middle Fork County Randolph Quadrangle Cassity

COMPANY Union Drilling, Inc.
ADDRESS P O Drawer 40, Buckhannon WV 26201
DESIGNATED AGENT Joseph C. Vanzant, Jr.
ADDRESS P O Drawer 40, Buckhannon WV 26201
SURFACE OWNER Westvaco Corp
ADDRESS 203 Randolph Ave. Elkins WV 26241
MINERAL RIGHTS OWNER Harry McMullan III, Agt.
ADDRESS P O Box 8, Washington NC 27889
OIL AND GAS INSPECTOR FOR THIS WORK Robert Stewart
ADDRESS P O Box 345, Jane Lew WV 26378
PERMIT ISSUED 7/11/83
DRILLING COMMENCED 8/9/83
DRILLING COMPLETED 8/15/83

Casing & Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft.
Size 20-16 Cond.			
13-10"	Pulled		
9 5/8			
8 5/8	700'	700'	266
7			
5 1/2			
4 1/2	3721.20'	3721.20'	525
3			
2			
Liners used			

IF APPLICABLE: PLUGGING OF DRY HOLE ON CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED ON _____

GEOLOGICAL TARGET FORMATION Elk Depth 5300' feet
Depth of completed well 5050' feet Rotary X / Cable Tools _____
Water strata depth: Fresh 30' feet; Salt _____ feet
Coal seam depths: 48', 68', 190', 215', 235' Is coal being mined in the area? yes
428'

OPEN FLOW DATA

Producing formation Balltown, Benson Pay zone depth 3562' feet
Gas: Initial open flow show Mcf/d Oil: Initial open flow _____ Bbl/d
Final open flow 696 Mcf/d Final open flow _____ Bbl/d
Time of open flow between initial and final tests 2 hours
Static rock pressure 1200# psig (surface measurement) after 24 hours shut in
(If applicable due to multiple completion--)
Second producing formation _____ Pay zone depth _____ feet
Gas: Initial open flow _____ Mcf/d Oil: Initial open flow _____ Bbl/d
Final open flow _____ Mcf/d Oil: Final open flow _____ Bbl/d
Time of open flow between initial and final tests _____ hours
Static rock pressure _____ psig (surface measurement) after _____ hours shut in

(Continue on reverse side)

RAND. 0780

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

Dowell Foam Fractured 8/25/83

2743/49 Balltown 45,000# sand, 220 Bbls. water, and 408,000 SCF Nitrogen

3526/30, 3559/62 Benson 45,000# sand, 220 Bbls. Water, and 426,000 SCF Nitrogen

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS
					Including indication of all fresh and salt water, coal, oil and gas
Sand			0	48'	1/2" stream water @ 30'
Coal			48'	54'	Coal @ 48'
Sand & Shale			54'	68'	
Coal			68'	71'	Coal @ 68'
Sand & Shale			71'	190'	
Coal			190'	193'	Coal @ 190'
Sand & Shale			193'	215'	
Coal			215'	222'	Coal @ 215'
Sand & Shale			222'	235'	
Coal			235'	238'	Coal @ 235'
Sand & Shale			238'	428'	
Coal			428'	432'	Coal @ 428'
Sand & Shale			432'	1127'	
Big Lime			1127'	1266'	
Big Injun			1266'	1386'	
Sand & Shale			1386'	1948'	
5th Sand			1948'	2016'	
Sand & Shale			2016'	2740'	
Balltown			2740'	2750'	
Sand & Shale			2750'	3519'	
Benson			3519'	3567'	
Sand & Shale			3567'	4296'	
Alexander			4296'	4356'	
Sand & Shale			4356'	4700'	
Elk			4700'	4841'	
Sand & Shale			4841'	5050' TD	Show

(Attach separate sheets as necessary)

Union Drilling, Inc
Well Operator
By: Joseph C. Pettey 10/13/2023
Joseph C. Pettey, Vice President of Production
Date: September 6, 1983

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."

OK

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION
FINAL INSPECTION REQUEST
INSPECTOR'S COMPLIANCE REPORT

RECEIVED
JUN 26 1984
OIL & GAS DIVISION
DEPT. OF MINES

Permit No. 083-0780 County Randolph/Middle Fork
Company Union Drilling, Inc. Farm Harry McMullen #22A
Inspector PHILLIP TRACY Well No. 22A-1883
Date September 14, 1983

RULE	DESCRIPTION	IN COMPLIANCE	
		Yes	No
23.06	Notification Prior to starting Work	_____	_____
25.04	Prepared before Drilling to prevent waste	_____	_____
25.03	High-Pressure Drilling	_____	_____
16.01	Required Permits at wellsite	_____	_____
15.03	Adequate Fresh Water Casing	_____	_____
15.02	Adequate Coal Casing	_____	_____
15.01	Adequate Production Casing	_____	_____
15.04	Adequate Cement Strength	_____	_____
23.02	Maintained Access Roads	_____	_____
25.01	Necessary Equipment to prevent Waste	_____	_____
23.03	Reclaimed Drilling Site	_____	_____
23.04	Reclaimed Drilling Pits	_____	_____
23.05	No surface or underground Pollution	_____	_____
7.03	Identification Markings	_____	_____

COMMENTS: _____

I have inspected the above well and (HAVE/HAVE NOT) found it to be in compliance with all of the rules and regulations of the Office of Oil and Gas Department of Mines of the State of West Virginia.

SIGNED: Phillip Tracy
DATE: June 14/84

10/13/2023



State of West Virginia
Department of Mines
Oil and Gas Division
Charleston 25305
July 19, 1984

WALTER N. MILLER
DIRECTOR

THEODORE M. STREIT
ADMINISTRATOR

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

Gentlemen:

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 NUMBER</u>	<u>FARM AND WELL NUMBER</u>	<u>DISTRICT</u>
083-0780	Harry McMullan, Jr. # 22A (1883)	Middle Fork (7-11-83)
083-0781	Harry McMullan, Jr. # 23A (1884)	Middle Fork (7-11-83)

In accordance with Chapter 22, Article 4, Section 2, the above captioned wells will remain under bond coverage for "life of wells." Reclamation requirements have been approved.....

Very truly yours,

Theodore M. Streit, Administrator
Office of Oil & Gas-Dept. Mines

TMS/ rls

10/13/2023

