FORM IV-2
(Obverse)
(6-82)

1) Date: October 29, 19 82
2) Operator's Well No. 7B - 1682
3) API Well No. 47 083 0734
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, III, Agent
#7B-1682

OIL AND GAS WELL PERMIT APPLICATION

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

5) LOCATION: Elevation: 2560' Watershed: Flatbush Fork
District: Roaring Creek County: Randolph Quadrangle: Cassity

6) WELL OPERATOR Union Drilling, Inc.
Address P. O. Drawer 40
Buckhannon, WV 26201

7) OIL & GAS ROYALTY OWNER Harry McMullan, III, Agent
Address P. O. Box 8
Washington, NC 27889
Acreage 3,719

8) SURFACE OWNER Westvaco
Address 203 Randolph Avenue
Elkins, WV 26241
Acreage 3,719

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

11) DESIGNATED AGENT Union Drilling, Inc.
Address P. O. Drawer 40
Buckhannon, WV 26201
Attn: Joseph C. Vanzant, Jr.

12) COAL OPERATOR
Address

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

14) COAL LESSEE WITH DECLARATION ON RECORD:
Name AMAX Coal Company
Address P. O. Box 967
Indianapolis, Indiana 46206

15) PROPOSED WORK: Drill x / Drill deeper ____ / Redrill ____ / Fracture or stimulate x /
Plug off old formation ____ / Perforate new formation ____
Other physical change in well (specify) ____

16) GEOLOGICAL TARGET FORMATION, Elk

17) Estimated depth of completed well, 5500 feet

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

19) Approximate coal seam depths: ? Is coal being mined in the area? Yes ____ / No x /

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OIL & GAS DIVISION
DEPT. OF MINES

20) CASING AND TUBING PROGRAM

CASING OR TUBING TYPE	SPECIFICATIONS Size	Grade	Weight per ft.	New	Used	FOOTAGE INTERVALS For drilling	Left in well	CEMENT FILL-UP OR SACKS (Cubic feet)	PACKERS
Conductor	11 3/4"			x		20'	20'		Kinds
Fresh water									
Coal									Sizes
Intermediate	8 5/8"		23#	x		850'	850'	to surface	
Production	4 1/2"		10½#	x		5500'	5500'	400 sks. or as required	Depths set
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. Kelley
My Commission Expires 5/22/89

Signed: Joseph C. Pettey
Its: Joseph C. Pettey, Vice President of Production

OFFICE USE ONLY

DRILLING PERMIT

Permit number 47-083-0734

November 19, 19 82
Date

10/20/2023

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 July 19, 1983 unless drilling is commenced prior to that date and prosecuted with due diligence.

Bond:	Agent:	Plat:	Casing	Fee
Blanket	OK ls	M.L.	M.L.	049050

Administrator, Office of Oil and Gas

NOTE: Keep one copy of this permit posted at the drilling location.

File

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 then 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 22-4-1l(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

10/20/2023

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 _____

FORM IV-2(B)
(Obverse)
7-83

FILE COPY

APPLICATION TO RENEW PERMIT

1) Date: January 13, 19 84
2) Operator's Well No. 7B-1682
3) API Well No. 47 - 083 - 0734 -Ren
State County Permit

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES, OIL AND GAS DIVISION
APPLICATION FOR A WELL WORK PERMIT

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

5) LOCATION: Elevation: 2560' Watershed: Flatbush Fork
District: Roaring Creek County: Randolph Quadrangle: Cassity

6) WELL OPERATOR Union Drilling, Inc.
Address Post Office Drawer 40
Buckhannon, WV 26201

7) DESIGNATED AGENT Joseph C. Vanzant, Jr.
Address Post Office Drawer 40
Buckhannon, WV 26201

8) OIL & GAS INSPECTOR TO BE NOTIFIED
Name Phillip Tracy
Address General Delivery
Ellamore, WV 26267

9) DRILLING CONTRACTOR:
Name Union Drilling, Inc.
Address Post Office Drawer 40
Buckhannon, WV 26201

10) PROPOSED WELL WORK: Drill X / Drill deeper ____/ Redrill ____/ Stimulate X /
Plug off old formation ____/ Perforate new formation ____/
Other physical change in well (specify) ____

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OIL & GAS DIVISION
DEPT. OF MINES

11) GEOLOGICAL TARGET FORMATION, Elk
12) Estimated depth of completed well, X 5500 feet
13) Approximate trata depths: Fresh, ? feet; salt, ? feet.
14) Approximate coal seam depths: ? Is coal being mined in the area? Yes ____ No X

15) CASING AND TUBING PROGRAM

CASING OR TUBING TYPE	SPECIFICATIONS Size	Grade	Weight per ft.	New	Used	FOOTAGE INTERVALS For drilling	Left in well	CEMENT FILL-UP OR SACKS (Cubic feet)	PACKERS
Conductor	11-3/4			X		20'	20'		Kinds
Fresh water									
Coal									Sizes
Intermediate	8-5/8		23#	X		850'	850'	to surface	NEAT
Production	4-1/2	J	10½#	X		5500'	5500'	400 sks. or	Depths set
Tubing								as required	by rule 15.01
Liners									Perforations:
									Top Bottom

OFFICE USE ONLY
DRILLING PERMIT

Permit number 47-083-0734 February 1, 19 84
Date

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. 8) 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.)

The permitted work is as described in the Notice and Application, plat, and reclamation plan, subject to any modifications and conditions specified on the reverse hereof.

Permit expires February 1, 1986 unless well work is commenced prior to that date and prosecuted with due diligence.

Bond:	Agent:	Plat:	Casing	Fee
BLANKET BOND	lo	mll	mll	013-052

Administrator, Office of Oil and Gas

NOTE: Keep one copy of this permit posted at the drilling location.

File

See the reverse side of the APPLICANT'S COPY for instructions to the well operator.

10/20/2023

FORM IV-2(B) **FILE COPY**
Reverse

OFFICE USE ONLY

PERMIT MODIFICATIONS AND CONDITIONS (IF ANY) TO THE PROPOSED WELL WORK

OFFICE USE ONLY

This part of Form IV-2(b) is to record the dates of certain occurrences and any follow-up inspections.

	Date	Date(s)
Application received		Follow-up inspection(s)
Well work started	,,	,,
Completion of the drilling process	,,	,,
Well Record received	,,	,,
Reclamation completed	,,	,,

OTHER INSPECTIONS

Reason: _____

Reason: _____

10/20/2023

Date 1-14 19 82

Well No. U682 #7B

API No. 47 - Randolph - 0734-
State County Permit
Rev.

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Tygart Valley Soil Conservation District

Form IV-9
(01-80)

STATE OF WEST VIRGINIA

OFFICE OF OIL AND GAS

Company Name Union Drilling Inc.

Address P.O. Drawer 40, Buckhannon W.Va.

Telephone 472-4610

Designated Agent Joseph C. Vangent, Jr. Union Drilling Inc.

Address P.O. Drawer 40, Buckhannon W.Va.

Telephone 472-4610

Landowner WestVaco Harry Mc. Mullan III Agent

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. 1/16/82 Junior Hedrick / Jean Freeman
(Date) (SCD Agent)

Access Road			Location		
Structure		(A)	Structure	Diversion	(1)
Spacing			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		

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OIL & GAS DIVISION
DEPT. OF MINES

All structures should be inspected regularly and repaired if necessary.

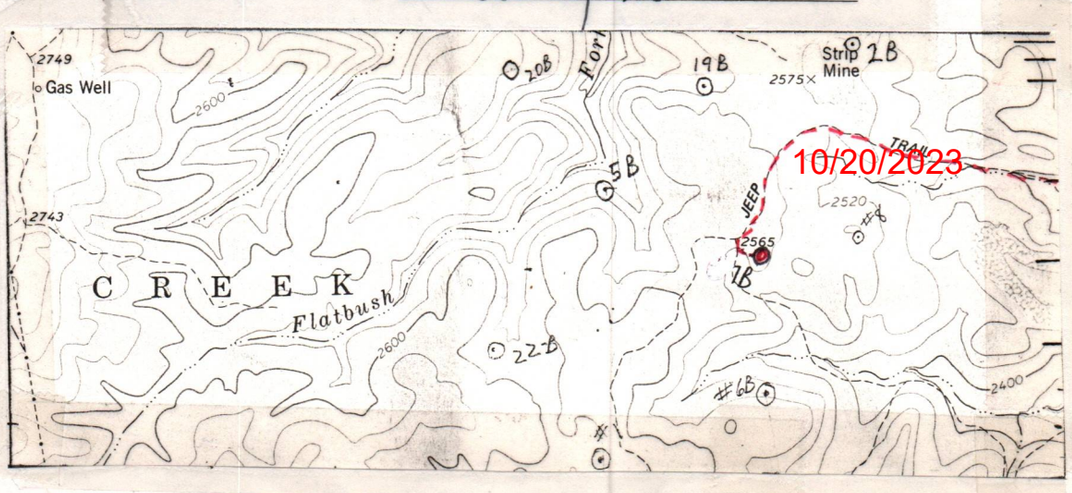
Revegetation

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

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

Legend: ⊕ Well Site
—— Access Road

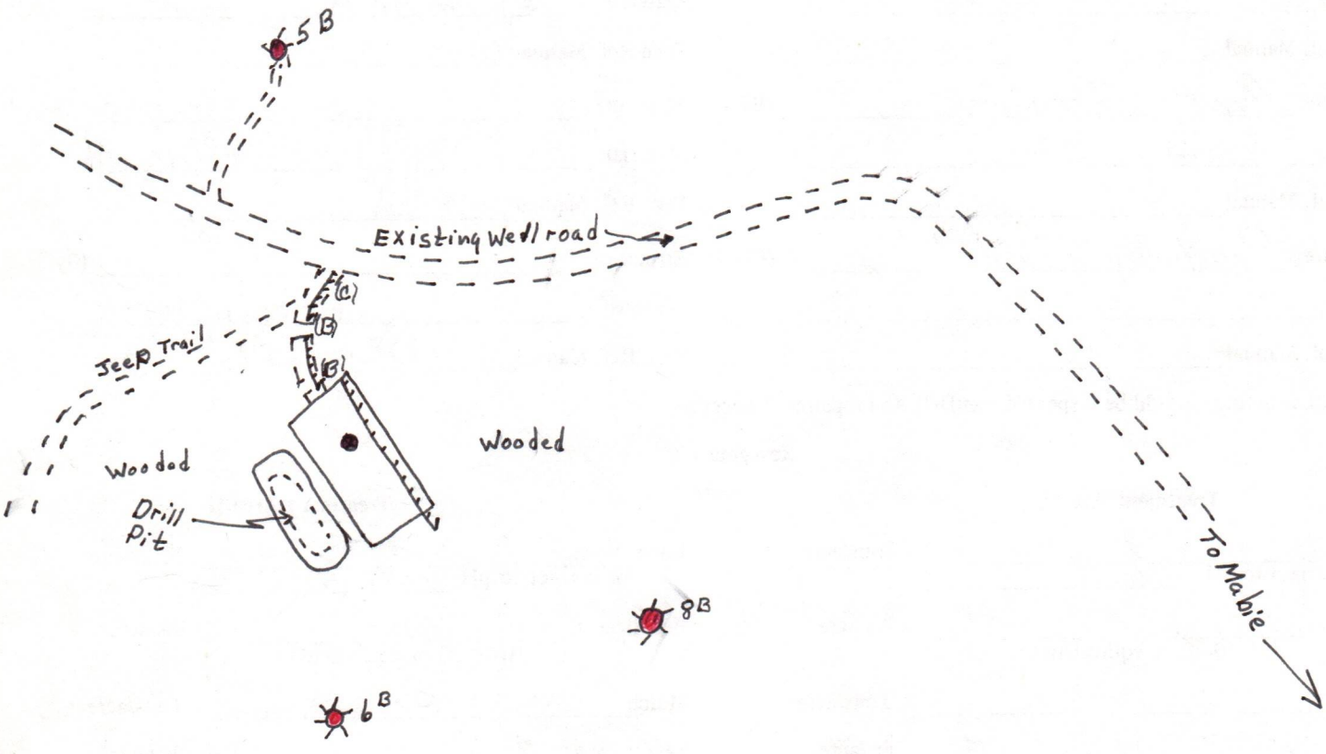


Well Site Plan

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 begins. All slopes to be 2:1 except in rock. Roadway grade ± 5 %

Signature: Danny O'Morgan P.O. Drawer 40, Buckhannon W Va. 472-4610

Agent Address Phone Number

10/20/2023

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

FORM IV-2(A)

1) Date: January 13, 19 84
2) Operator's Well No. 7B-1682
3) API Well No. 47 083 0734-
State County Permit

Ren.

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES, OFFICE OF OIL & GAS

NOTICE OF APPLICATION FOR A WELL WORK PERMIT

4) SURFACE OWNER(S) OF RECORD TO BE SERVED

(i) Name Westvaco
Address 203 Randolph Avenue
Elkins, WV 26241

(ii) Name
Address

(iii) Name
Address

5(i) COAL OPERATOR
Address

5(ii) COAL OWNER(S) WITH DECLARATION ON RECORD:
Name Harry McMullan , III, Agent
Address Post Office Box 8
Washington, NC 27889

Name
Address

i) COAL LESSEE WITH DECLARATION ON RECORD:
Name AMAX Coal Company
Address Post Office Box 967
Indianapolis, Indiana 46206

P 471 413 951
RECEIPT FOR CERTIFIED MAIL
NO INSURANCE COVERAGE PROVIDED—
NOT FOR INTERNATIONAL MAIL
(See Reverse)

Sent to Westvaco	
Street and No. 203 Randolph Avenue	
P.O., State and ZIP Code Elkins, WV 26241	
Postage	$
Certified Fee	
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to whom and Date Delivered	
Return Receipt Showing to whom, Date, and Address of Delivery	
TOTAL Postage and Fees	$
Postmark or Date	

PS Form 3800, Feb. 1982

CLARKSBURG JAN 13 1984 WV

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this Form and the following documents:
IV-2(B) (or Form IV-4 if the well is
lved in the drilling or other work,
f applicable, the proposed casing and
ation on Form IV-6; and
IV-9)unless the well work is only to
ion and sediment control and for

J HAVE RIGHTS REGARDING THE APPLICATION
SE SIDE OF THE COPY OF THE APPLICATION
YOU ARE NOT REQUIRED TO TAKE ANY

inia Code, the undersigned well op-
plication and accompanying documents
fice of Oil and Gas, West Virginia
tion described on attached Application
ice, the Application, the plat, and the
egistered or certified mail or delivered
in certain circumstances) on or
tor.

g contract or contracts by which
(See reverse side for specifics.)

gas based upon a lease or leases
l 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 XX

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JAN 16 1984
OIL & GAS DIVISION
DEPT. OF MINES

If the answer above is No, nothing additional is needed. If the answer is Yes, you may use Affidavit Form IV-60.

See the reverse side for line item instructions, and for instructions concerning the required copies of the Notice and Application, plat, and Construction and Reclamation Plan.

The truth of the information on the Notice and Application is verified and sworn to and the Notice is signed on behalf of the Well Operator in my County and State by Joseph C. Pettey, this 13 day of January, 19 84.
My commission expires 2/3, 1993.

Notary Public, Upshur County,
State of West Virginia

WELL OPERATOR Union Drilling, Inc.
By Joseph C. Pettey
Its Vice President of Production
Address Post Office Drawer 40
Buckhannon, WV 26201
Telephone 304-472-4610

10/20/2023

5

Form IV-2 (A)
Reverse

T O

CON

P 471 413 942

RECEIPT FOR CERTIFIED MAIL

NO INSURANCE COVERAGE PROVIDED—
NOT FOR INTERNATIONAL MAIL

(See Reverse)

4)

Sent to Harry McMullan, III	
Street and No. P. O. Box 8	
P.O., State and ZIP Code Washington, NC 27889	
Postage	$
Certified Fee	
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to whom and Date Delivered	
Return Receipt Showing to whom, Date, and Address of Delivery	
TOTAL Postage and Fees	$
Postmark or Date	

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PS Form 3800, Feb. 1982

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P 471 413 943

RECEIPT FOR CERTIFIED MAIL

NO INSURANCE COVERAGE PROVIDED—
NOT FOR INTERNATIONAL MAIL

(See Reverse)

Sent to AMAX Coal Company	
Street and No. P. O. Box 967	
P.O., State and ZIP Code Indianapolis, IN 46206	
Postage	$
Certified Fee	
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to whom and Date Delivered	
Return Receipt Showing to whom, Date, and Address of Delivery	
TOTAL Postage and Fees	$
Postmark or Date	

PS Form 3800, Feb. 1982

RECEIVED JAN 13 1984 WV

INFORMATION SUPPLIED UNDER CODE § 22-4-11(d)
IN LIEU OF FILING LEASE(S) AND OTHER CONTINUING CONTRACT(S)

Under the oath required to make the verification on the obverse side of this Notice, I depose and say that I am the person who signed the Notice for the Applicant, and that--

(1) the tract of land is the same tract described in the Application to which this Notice applies, partly or wholly depicted in the accompanying plat, and described in the Construction and Reclamation Plan;

(2) the parties and recordation data (if recorded) for lease(s) or other continuing contract(s) by which the Applicant claims the right to extract, produce or market the oil or gas are as follows:

Grantor, lessor, etc.	Grantee, lessee, etc.	Royalty	Book Page
Harry McMullan, III, Agent	Union Drilling, Inc.	14%	335/510

10/20/2023

Elizabeth A Vilseck

OIL AND GAS LEASE

33607

THIS LEASE AGREEMENT, made and entered into as of this 1st day of June, 1980, by and between Neva S. McMullan of Dallas, Texas; Florence K. Hoback and John H. Hoback, her husband, of Huntington, West Virginia; Rebecca A. Holtz and Charles Holtz, her husband, of Charleston, West Virginia; Elizabeth A. Vilseck, widow, of Elkins, West Virginia; Esther M. Richter and Charles D. Richter, her husband, of St. Petersburg, Florida, and Esther Lee Cutright and Clifford J. Cutright, her husband, of St. Petersburg, Florida, hereinafter collectively referred to as "Lessor", and Union Drilling, Inc., a corporation, with principal offices at Buckhannon, West Virginia, hereinafter referred to as "Lessee",

WITNESSETH: That for and in consideration of the sum of nine thousand two hundred ninety-seven dollars and fifty cents ($9,297.50), cash in hand paid, the receipt of which is hereby acknowledged, and of the covenants and agreements hereinafter contained, Lessor and Lessee agree as follows:

SECTION 1. RIGHTS OF LESSEE

Subject to the provisions and to fulfill the purposes of this lease, Lessee is granted the exclusive right and privilege to enter, prospect, drill for, mine, extract, remove and dispose of all the oil and gas deposits to a depth of 100 feet below the Oriskany Sands (which is situated at around 7500' below ground level), and reserving to Lessor all rights below this depth in the lands leased, together with the right to construct and maintain thereupon, all works, buildings, plants, waterways, roads, telegraph or telephone lines, pipelines, reservoirs, tanks, pumping stations, drilling locations, or other structures necessary to the full enjoyment thereof for the term of this lease (with the exact location of all items to be subject to Lessor's approval).

98

SECTION 2. DESCRIPTION OF LAND

The tract of land covered by this lease consists of nine (9) parcels, totaling 3,719 acres, located in Roaring Creek District of Randolph County, West Virginia, with reference being made to the following deeds in Lessor's chain of title (all deeds being of record in the office of the Clerk of the County Commission of Randolph County, West Virginia): Deed Book 142, page 146. Reservations of minerals as follows: Deed Book 158, page 304; Deed Book 156, page 46; Deed Book 158, page 356; Deed Book 155, page 415; and Deed Book 155, page 418.

Said land is more particularly described as follows:

The following parcels, as shown on "Exhibit A," attached hereto:

	Tract	Acres
Eastern portion of	G-1	3,522
	G-2	57
	G-3	20
	G-4	53
	G-5	34
	G-8	19
	G-9	14
	Total acres	3,719

SECTION 3. LESSEE AGREES:

(A) Rentals and Royalties.

(1) To pay rentals and royalties in amount or value of production received or sold from the leased lands as follows:

Delay Rentals:

Lessee agrees to pay Lessor as delay rentals $2.34 per acre or $8,702.46 for the twelve month period ending June 1, 1981. For each of the remaining four years of this lease, the delay rentals to be paid Lessor shall be equal to $2.34 per acre increased by an additional increment equaling the increases in

10/20/2023

the U. S. Bureau of Labor Consumer Price Index using the June, 1980 index of 247.6 as base, multiplied by $8,702.46. (For example, if the CPI stands at 260.6 for June, 1981 Lessee's delay rental for the year beginning June 1, 1981 shall be $9,148.74) Said delay rental shall be payable quarterly in advance on August 1, November 1, February 1, and May 1.

Delay rentals are not recoupable against production royalties. However, in the event that production royalties are being paid by Lessee, the Lessee, on August 1st of each lease year, shall pay to Lessor the difference between the production royalties paid during the year and the delay rentals or annual rents which would have been paid in the event that no production had existed. It is the intention of the parties by this provision to insure that the lessor receives each year at least an amount equivalent to the delay or annual rentals herein provided, regardless of whether any production is taking place on the leased premises.

Royalty On Production:

Production royalties shall be based on the prices received by Lessee for oil or gas at the well-head, or in tanks on the well-site, in arms-length transactions, yielding the maximum price obtainable by Lessee in that particular situation, with no deductions for any cause whatsoever. In case of oil or gas not sold by Lessee in an arms-length transaction or in case the contract price for the product so sold does not truly reflect the prevailing market value, the selling price for the purpose of computing percentage royalties shall be the prevailing market value in the vicinity of oil or gas of like quality. Lessee agrees to pay Lessor a royalty of 15% of the gross sales price for any gas, oil, condensate or other hydrocarbon removed or sold from the leased premises.

All such production royalties shall be due and payable monthly on the last day of the calendar month next following the calendar month in which produced.

All payments to be made to Lessor hereunder shall be made direct to Lessors by check, made payable in the following proportions, and mailed to:

Name and Address	Proportionate Ownership
Neva S. McMullan P. O. Box 8 Washington, NC 27889	1196/1500
Esther M. Richter 110 20th Ave. N St. Petersburg, FL 33704	20/1500
Esther M. Cutright 110 20th Ave. N St. Petersburg, FL 33704	20/1500
Dr. Florence M. Hoback 2658 3rd Ave. Huntington, WV 25710	132/1500
Elizabeth A. Vilseck 12 S. Randolph St. Elkins, WV 26241	66/1500
Rebecca A. Holtz 1517 Connell Road Charleston, WV 25212	66/1500

(B) Statements, Plats and Reports.

At such times and in such form as Lessor may prescribe to furnish Lessor detailed statements showing the amounts and quality of all products removed and sold from the leased premises, the proceeds therefrom, and the amount used for production purposes or unavoidably lost, and plats showing development work and improvements, if any, on the leased lands.

(C) Well Records.

To keep a daily drilling record, a log, and complete information on all well surveys and tests in form acceptable to

Lessor of all wells drilled on the leased lands, and an acceptable record of all subsurface investigations affecting said lands, and to furnish them, or copies thereof, without costs, to Lessor when requested. All information obtained under this paragraph, upon the request of Lessee, shall be confidential.

(D) Inspection.

To keep open at all reasonable times for the inspection of any duly authorized person, the leased premises and all wells, improvements, machinery, and fixtures thereon and all books, accounts, maps and records relative to operations and surveys or investigations on the leased lands or under the lease. All information obtained pursuant to any such inspection, upon the request of Lessee, shall be confidential.

(E) Diligence, Prevention of Waste.

To exercise diligence in drilling and producing the wells herein provided for, to carry on all operations in accordance with approved methods and practice having due regard for the prevention of waste of oil or gas or damage to deposits or formations containing oil, gas, water, coal stratas or other mineral deposits, for conservation of gas energy, for the preservation and conservation of the property for future productive operations, and for the health and safety of workmen and employees; to plug properly and effectively all wells drilled in accordance with the provisions of this lease or of any prior lease or permit upon which the right to this lease was predicated before abandoning the same; to carry out at expense of Lessee all reasonable orders of Lessor relative to the matters in this paragraph, and that on failure of Lessee so to do, Lessor shall have the right to enter on the property and to accomplish the purpose of such orders at Lessee's cost. The absence of a specific request on part of Lessor shall in no way relieve Lessee from property attending to diligent management of the resources herein leased.

(F) Taxes.

To pay when due, all taxes lawfully assessed and levied under the laws of the State or the United States, upon improvements, oil and gas produced from the lands hereunder or other rights, property, or assets of Lessee.

(G) Compliance with Laws and Indemnification.

Lessee agrees to conduct its operations hereunder in compliance with all laws of the State of West Virginia and of the United States of America now in effect or as the same may be hereinafter amended or enacted, and in compliance with all valid rules and regulations promulgated thereunder, and in that connection agrees to make and file all maps required thereby and to furnish copies thereof to Lessor, and further to indemnify and safeguard and save Lessor harmless from any and all liability arising from Lessee's failure to observe any such laws, rules or regulations. Lessee's obligations hereunder shall survive, if applicable, the termination of this Agreement.

(H) Assignment of Oil and Gas Lease or Interest Therein.

To file with Lessor by registered mail, any instrument of transfer made of this lease or any interest therein, including assignments of record title, operating agreements and subleases. It is agreed that said instrument of transfer with the appropriate recordation data, must be approved by Lessor before becoming valid or binding.

(I) Protection of Surface, Natural Resources, and Improvements.

To take such reasonable steps as may be needed to prevent operations on the leased lands from (1) causing or contributing to soil erosion or damaging crops, including forage, and timber growth thereon and on other lands in the vicinity; (2) polluting air and water; (3) damaging improvements owned by Lessor or other parties; and upon any partial or total relinquishment or cancellation or expiration of this lease, or at any other time prior thereto when

required and to extent deemed necessary by Lessor to fill any pits, ditches and other excavations, remove or cover all debris, and so far as reasonably possible, restore the surface of the leased land and access roads to their former condition, including the removal of structures as and if required. Lessor may reasonably prescribe steps to be taken and restoration to be made with respect to the leased lands and improvements thereon whether or not owned by Lessor.

(J) Deliver Premises in Case of Forfeiture.

In case of forfeiture, to deliver up to Lessor in good order and condition the land leased including all improvements which are necessary for the preservation of producing wells.

SECTION 4. LESSOR RESERVES:

(A) The right to permit for joint or several use easements or rights of way, including easements in, tunnels upon, through, or in the lands leased, occupied, or used as may be necessary or appropriate to the working of the same or of other lands and the treatment and shipment of products thereof by or under authority of Lessor, for its purposes. Full rights of ingress and egress.

(B) All rights and privileges heretofor granted by Lessor or former owners to others. Lessor has leased the coal underlying the leased premises to AMAX, Inc. and this lease is expressly made subject to said lease with AMAX, Inc. Lessee agrees to obtain prior written approval of Lessor's agent, Harry McMullan, III (or such other agent or Lessor he might appoint) for all drilling sites and pipelines locations, and further agrees to conduct its operations hereunder in such a manner so as not to interfere with coal operations.

(C) The right to lease, sell, or otherwise dispose of the leased lands, or to dispose of the lands in any way which will not unreasonably interfere with Lessee's operations under this lease.

(D) The entire ownership and control of the land herein leased, for all purposes other than those for which this lease is made.

Lessor hereby cites the fact that certain of Lessors have sold their undivided interest in the surface estate overlying the leased premises to Westvaco Corporation.

(E) The right to lease the property for oil and gas exploration production and storage below 100' below the Oriskany Sands.

SECTION 5. TERM

This lease shall be in effect from June 1, 1980 to May 31, 1985, and as long thereafter as oil or gas, or either of them, is produced from said lands by the said Lessee, its successors or assigns in quantities the royalties from which exceed the rentals herein provided to be paid.

SECTION 6. UNITIZATION

Lessee may not unitize, pool, or store gas without the express written consent of Lessor.

SECTION 7. MANNER OF OPERATIONS AND LESSEE'S LIABILITY FOR DAMAGES

If requested by Lessor, Lessee shall bury all pipelines used to produce and transport gas or oil off the premises at least 24" deep; otherwise, pipelines may be constructed on top of the surface. Lessee shall pay promptly for all damage of any nature caused by its operations under this lease, which it is legally obligated to pay, and Lessee agrees to utilize due care to minimize the damages to the area of each well location. Lessee further agrees to move any pipelines to an approved location one time, at its expense, if necessary for the purpose of coal operations.

Lessee agrees that it will consult with and obtain prior written approval of Lessor's agent of all sites for roads, well locations, pipelines or other facilities necessary for production of oil and gas hereunder. Lessor agrees to act within fifteen (15) days upon any request for approval made by Lessee, and, in the event that Lessor fails to approve or disapprove such requests

within fifteen (15) days of the submission of the same to Lessor, then the same shall be considered to have been automatically approved by Lessor. Lessor agrees that it will not unreasonably withhold consent to locations of drilling sites, pipelines, roads and other facilities, but reserves the right, as herein set forth, to approve or disapprove the same. In the event that Lessor disapproves any requests, then Lessor agrees to work with Lessee in obtaining a suitable alternate location so as not to unduly delay or hamper Lessee's operations.

Lessee agrees that its operations on the lands will be conducted in conformance with applicable laws and in such manner as will absolve Lessor from liability due to pollution, or discoloration of streams fed by waters from the lands or because of interference with the present bed of such streams or their natural flow. Lessee further agrees to indemnify, protect and hold Lessor harmless against all claims, demands, suits, actions, causes of action, judgments or decrees for personal injury or property damage, asserted by any party because of any act or acts of Lessee or its employees or agents upon any portion of the lands of Lessor whether committed under the terms of this Lease or not. For the purposes aforesaid, Lessee agrees to carry Workmen's Compensation coverages and such liability insurance as will fully protect Lessor. Lessee shall conduct all of its operations and investigations with due regard for the rights of others. Lessee will protect, defend, indemnify and save Lessor harmless from any and all liabilities, claims, demands, actions, losses, costs, damages or expenses, of any nature, resulting from its operations on lands of Lessor.

Failure of either Lessor or Lessee to exercise any of their respective rights hereunder upon the non-performance by the other party of any condition, covenant, or provision herein contained, shall not be construed as a waiver thereof, nor shall the defective performance or waiver or non-performance of any such condition,

covenant, or provision upon the part of one party be construed as a waiver of the rights of the other party as to any subsequent defective performance or non-performance hereunder.

The rights, duties, obligations and liabilities of the parties hereto shall be several and not joint or collective; it being the express purpose and intention hereby to create only a lessor-lessee relationship and nothing herein shall ever be construed as creating a partnership duty, obligation or liability.

SECTION 8. SURFACE DAMAGES AND TIMBER

Except as hereinbefore set forth, Lessee agrees to pay to Lessor damages for all surface disturbed by Lessee. In the case of surface area utilized for the construction of roadways, the damaged area shall include only the additional area taken outside of the already established roadway.

Lessor shall have the right and privilege to sell and have removed any and all timber or timber products on the area herein leased, whether damaged by Lessee or not, and Lessee agrees to give Lessor as much notice as practicable of the precise area which it proposes to disturb. Lessee agrees to promptly remit to Lessor the greater of:

(a) the then current stumpage market value of all timber and pulpwood disturbed by it, as calculated by Westvaco Corporation, OR

(b) $250 per surface acre, slope-measure, disturbed by Lessee.

SECTION 9. ENTIRETY AND OUTSTANDING INTEREST.

If the leased premises are hereafter owned severally or in separate tracts, the premises shall nevertheless be developed and operated as one lease and there shall be no obligation on the part of Lessee to offset wells on separate tracts into which the land covered by this lease may hereafter be divided by sale, demise, descent or otherwise.

Lessor does not warrant title to the oil and gas herein leased. Should it be determined that a fraction of the fee sample

in the oil and gas in the above described lands is outstanding and adversely owned, then Lessor shall receive as a reduction only such proportionate fraction of the rentals to which it is entitled, and shall refund to Lessee any overpayment made by Lessee to Lessor.

SECTION 10. SURRENDER AND TERMINATION OF LEASE.

Subject to Lessee's agreement and guarantee to pay Lessor at least the minimum delay rental for a period of one (1) year, and subject to ninety (90) days notice, Lessee may surrender this lease by filing at Lessor's office a written relinquishment, which shall be effective as of the date of filing, subject to the continued obligation of Lessee to make payment of all accrued rentals and royalties and to place all wells on the land to be relinquished in condition for suspension or abandonment.

Lessee covenants, agrees and guarantees that minimum delay rental payments will be made for at least one (1) year from the date of this lease.

SECTION 11. REMOVAL OF PROPERTY ON TERMINATION OF LEASE.

Upon the expiration of this lease, or the earlier termination thereof pursuant to the last preceding section, Lessee shall have the privilege at any time within a period of ninety (90) days thereafter of removing from the premises all machinery, equipment, tools, and materials other than improvements needed for producing wells. Any materials, tools, appliances, machinery, structures, and equipment subject to removal as above provided, which are allowed to remain on the leased lands shall become the property of Lessor on expiration of the ninety (90) day period or such extension thereof as may be granted because of adverse climatic conditions throughout said period; provided, that Lessee shall remove any or all of such property where so directed by Lessor.

SECTION 12. FORFEITURE DEFAULT

Lessor shall have a lien for said rents and royalties upon all improvements, equipment and property of Lessee upon the lands,

this Agreement and the leasehold estate hereby created. If any installment of rent or royalty shall remain unpaid for fifteen (15) days after written notice of delinquency on the payment of the same, all property of Lessee upon the lands may be distrained and sold to pay such rental or royalty; and in addition thereto, Lessor shall have the right, if it so desires, to enforce and seek remedies by suit or action in any court of competent jurisdiction the lien hereby given it. All provisions in this Lease contained for the collection of rentals or royalties, recovery of possession of the lands, or concerning the remedy in case of breach by Lessee of any condition, covenant or agreement herein contained, shall be deemed cumulative and not exclusive, and shall not deprive Lessor of any other legal or equitable remedies.

In case Lessee shall fail in the performance or observance of any of the terms, conditions, or agreements herein contained, including, but not limited to, the payment of rentals and royalties and if such failure continues for fifteen (15) days after Lessor gives written notice of such delinquency to Lessee, then, at the election of Lessor, this Lease and the leasehold estate created, and all rights of Lessee under this Lease shall automatically become forfeited and cease and terminate, and Lessor shall have the right, without further notice, to re-enter the lands and to take possession of all property thereon, to exclude Lessee therefrom, and to hold and possess the lands as of their former estate. A waiver of any particular cause of forfeiture or re-entry shall not prevent the forfeiture of cancellation of this Lease for any other cause of forfeiture or for the same cause occurring at any other time.

In making any such re-entry or taking possession of the lands, no service of a declaration in ejectment or writ of detinue upon Lessee or upon the tenant in possession shall be necessary; nor shall any notice or process required by any statutes of the state of West Virginia be necessary. Such re-entry and retaking

possession shall in no wise impair the right of Lessor to recover rentals and royalties accrued up to the time of such re-entry and taking possession. No provision of this lease shall relieve Lessee of the obligation to fulfill the delay rentals owed for the period hereinbefore specified.

Upon cancellation of this lease, any casing, material, or equipment determined by Lessor to be necessary for use in plugging or preserving any well drilled on the leased land shall become the property of Lessor.

No waiver, release, modification, nor amendment of any of the terms, conditions, or provisions of this Lease shall be valid or set up or relied upon by either party hereto or offered in any judicial proceeding or otherwise, unless the same is in writing, duly executed by Lessor and/or Lessee, as the situation may require.

SECTION 13. BANKRUPTCY

Neither this Lease, the estate hereby created, nor the rights of Lessee created hereunder shall be subject to sale or disposition thereof, in whole or part, under the judgment or decree of any court, or by or through judicial process of law or equity, except for the purposes of enforcing, at the insistence of Lessor, its rights hereunder. If (1) Lessee commits any act of bankruptcy, as the same is presently defined in the U. S. Code, or becomes insolvent, or (2) Lessee shall be unsuccessful in defending any execution attachment or legal process and the lands or any property of Lessee shall be taken in pursuance thereof, or (3) a receiver or trustee of the property of Lessee or any part thereof shall be appointed, or (4) this Lease shall, by operation of the law, devolve upon or attach to any entity other than Lessee, then and in any of said events this Lease and all rights of Lessee hereunder shall, at the option of Lessor, forthwith cease and terminate.

10/20/2023

10

SECTION 14. HEIRS AND SUCCESSORS-IN-INTEREST.

Each obligation hereunder shall extend to and be binding upon, and every benefit hereof shall inure to, the heirs, executors, administrators, successors, or assigns of the respective parties hereto.

SECTION 15. COUNTERPARTS.

The parties hereto may execute this Agreement in any number of separate counterparts, each of which, when executed and delivered by the parties hereto, shall have the force and effect of an original; but all such counterparts shall be deemed to constitute one and the same instrument.

10/20/2023

10/20/2023

WITNESS the following signatures this 29th day of January, 1981:

Florence K. Hoback
Dr. Florence K. Hoback S.S. 234-36-7531

John H. Hoback
John H. Hoback S.S. 234-16-0430

STATE OF West Virginia,
COUNTY OF Cabell, to-wit:

I, Glenna M Estep, a Notary Public in and for said County and State, do hereby certify that Dr. Florence K. Hoback and John H. Hoback, her husband, who signed the foregoing Lease Agreement, bearing date the 1st day of June, 1980, have this day acknowledged the same before me in my said County and State.

Given under my hand and OFFICIAL SEAL this 29th day of January, 1981.

My commission expires: the 28th day of Jan., 19 85.

(AFFIX SEAL HERE)

Glenna M Estep
Notary Public

GLENNA M. ESTEP NOTARY PUBLIC CABELL COUNTY, W. VA.

Prepared by Robert J. Wallace, Attorney at Law, Buckhannon, West Virginia 26201.

10/20/2023

WEST VIRGINIA; RANDOLPH COUNTY CLERK'S OFFICE
FEBRUARY 4, 1981
This instrument was this day presented to me in my office, and thereupon, together with the Certificate thereto annexed, is admitted to record.

Teste: Virgil Hamrick Clerk

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WITNESS the following signatures this 29th day of January, 1981.

Rebecca A. Holz
Rebecca A. ~~Holtz~~ HOLZ

Charles Holz
Charles ~~Holtz~~ HOLZ

STATE OF West Virginia,
COUNTY OF Kanawha, to-wit:

I, Stanley E. Deutsch, a Notary Public in and for said County and State, do hereby certify that Rebecca A. Holtz and Charles Holtz, her husband, who signed the foregoing Lease Agreement, bearing date the 1st day of June, 1980, have this day acknowledged the same before me in my said County and State.

Given under my hand and OFFICIAL SEAL this 29th day of January, 1981.

My commission expires: the 1st day of July, 1981.

(AFFIX SEAL HERE)

Stanley E. Deutsch
Notary Public

WEST VIRGINIA; RANDOLPH COUNTY CLERK'S OFFICE
FEBRUARY 4, 1981
This instrument was this day presented to me in my office, and thereupon, together with the Certificate thereto annexed, is admitted to record.

Teste: Virgil Hamrick Clerk

Prepared by Robert J. Wallace, Attorney at Law, Buckhannon, West Virginia 26201.

WITNESS the following signatures this 27 day of January, 1981:

Elizabeth A. Vilseck
Elizabeth A. Vilseck
232 22 4736

STATE OF West Virginia,

COUNTY OF Randolph, to-wit:

I, Virgil Hamrick, a Notary Public in and for said County and State, do hereby certify that Elizabeth A. Vilseck, widow, who signed the foregoing Lease Agreement, bearing date the 1st day of June, 1980, has this day acknowledged the same before me in my said County and State.

Given under my hand and OFFICIAL SEAL this 27th day of January, 1981.

My commission expires: the 18th day of March, 19 84.

(AFFIX SEAL HERE)

VIRGIL HAMRICK NOTARY PUBLIC RANDOLPH COUNTY, W. VA.

Virgil Hamrick
Notary Public

Prepared by Robert J. Wallace, Attorney at Law
Buckhannon, West Virginia 26201.

WEST VIRGINIA; RANDOLPH COUNTY CLERK'S OFFICE
FEBRUARY 4, 1981
This instrument was this day presented to me in my office, and thereupon, together with the Certificate thereto annexed, is admitted to record.

Teste: Virgil Hamrick Clerk

10/20/2023

WITNESS the following signatures this 27 day of January, 1981:

Soc. Security
234-30-0296

Esther M. Richter
Esther M. Richter

Charles O. Richter
Charles D. Richter

577-38-7881

STATE OF Florida,

COUNTY OF Pinellas, to-wit:

I, Janet Kennedy, a Notary Public in and for said County and State, do hereby certify that Esther M. Richter and Charles ~~D.~~ O. Richter, her husband, who signed the foregoing Lease Agreement, bearing date the 1st day of June, 1980, have this day acknowledged the same before me in my said County and State.

Given under my hand and OFFICIAL SEAL this 27 day of January, 1981.

My commission expires: the _____ day of _____, 19_____.

Notary Public, State of Florida at Large
My Commission Expires MARCH 30, 1983

(AFFIX SEAL HERE)

Janet Kennedy
Notary Public

WEST VIRGINIA; RANDOLPH COUNTY CLERK'S OFFICE
FEBRUARY 4, 1981
This instrument was this day presented to me in my office, and thereupon, together with the Certificate thereto annexed, is admitted to record.

Teste: Virgil Hamrick Clerk

Prepared by Robert J. Wallace, Attorney at Law,
Buckhannon, West Virginia 26201.

10/20/2023

WITNESS the following signatures this 29th day of January, 1981:

Esther L. Cutright
Esther L. Cutright

Clifford J. Cutright
Clifford J. Cutright

STATE OF FLORIDA,

COUNTY OF PINELLAS, to-wit:

I, ETHEL M. WALKUP, a Notary Public in and for said County and State, do hereby certify that Esther L. Cutright and Clifford J. Cutright, her husband, who signed the foregoing Lease Agreement, bearing date the 1st day of June, 1980, have this day acknowledged the same before me in my said County and State.

Given under my hand and OFFICIAL SEAL this 29 day of January, 1981.

My commission expires: the ____ day of _____, 19____.

Notary Public, State of Florida at Large
My Commission Expires JAN. 15, 1983

(AFFIX SEAL HERE)

ETHEL M. WALKUP NOTARY PUBLIC STATE OF FLORIDA

Ethel M. Walkup
Notary Public

WEST VIRGINIA; RANDOLPH COUNTY CLERK'S OFFICE

FEBRUARY 4, 1981

This instrument was this day presented to me in my office, and thereupon, together with the Certificate thereto annexed, is admitted to record.

Teste: Virgil Hamrick Clerk

Prepared by Robert J. Wallace, Attorney at Law
Buckhannon, West Virginia 26201.

IV-35
(Rev 8-81)

RECEIVED
OCT 24 1984
OIL & GAS DIVISION
DEPT. OF MINES

State of West Virginia
Department of Mines
Oil and Gas Division

Date October 22, 1984
Operator's
Well No. 7B - 1682
Farm Harry McMullan #7B
API No. 47 - 083 - 0734-Ren.

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

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

LOCATION: Elevation: 2560' Watershed Flatbush Fork
District: Roaring Creek 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
ADDRESS 203 Randolph Ave, Elkins, WV 26241
MINERAL RIGHTS OWNER Harry McMullan
ADDRESS P.O. Box 8, Washington, NC 27889
OIL AND GAS INSPECTOR FOR THIS WORK
Phil Tracy ADDRESS Gen.Del. Ellamore, WV 26267
PERMIT ISSUED 2/1/84
DRILLING COMMENCED 9/27/84
DRILLING COMPLETED 10/2/84
IF APPLICABLE: PLUGGING OF DRY HOLE ON CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED ON

Casing & Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft.
Size 20-16 Cond.			
13-10"	16.00'	16.00'	
9 5/8			
8 5/8	911.65'	911.65'	387 cf
7			
5 1/2			
4 1/2		5249.60'	967 cf
3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION Elk Depth 5500' feet
Depth of completed well 5363' feet Rotary XX / Cable Tools
Water strata depth: Fresh 90', 200' feet; Salt none feet
Coal seam depths: 38/42, 128/31, 502/08 Is coal being mined in the area? no

OPEN FLOW DATA
Producing formation Benson, 1,2 & 3 Elk Pay zone depth 5148' feet
Gas: Initial open flow 33 Mcf/d Oil: Initial open flow ___ Bbl/d
Final open flow 237 Mcf/d Final open flow ___ Bbl/d
Time of open flow between initial and final tests 2 hours
Static rock pressure 975# 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 0734-REN

10/20/2023

FORM IV-35
(REVERSE)

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

Dowell - 2 stage Foam Frac - 10/10/84

3818/22 - Benson - 75,000# sand, 250 Bbls water and 660,000 scf nitrogen

4946 - 1st Elk - 75,000# sand, 270 Bbls water and 845,000 scf nitrogen
5038/42 - 2nd Elk
5148 - 3rd Elk

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 & Shale			0	38	
Coal			38	42	
Sand & Shale			42	128	1/4" stream water @90'
Coal			128	131	
Sand & Shale			131	502	3/4" stream water @200'
Coal			502	508	
Sand & Shale			508	1428	
Big Lime			1428	1562	
Injun			1571	1682	
5th Sand			2212	2274	
Bayard			2280	2312	
Lower Speechly			2823	2834	
Balltown			3010	3022	
Benson			3816	3828	
Alexander			4411	4435	
Lower Alexander			4606	4624	
1st Elk			4939	4962	
2nd Elk			5038	5090	
3rd Elk			5144	5180	
				5363'	T.D. 10/10ths thru 1" = 33 mcf

(Attach separate sheets as necessary)

UNION DRILLING, INC.
Well Operator

By: Joseph C. Pettey 10/20/2023
Joseph C. Pettey, Vice President of Production

Date: 10/22/84

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."

IV-20
Obverse
1-84

RECEIVED
JUN 1 8 1985
OIL & GAS DIVISION
DEPT. OF MINES

NEEDED (4)

State of West Virginia
Department of Mines
Oil and Gas Division
Charleston 25305

FINAL INSPECTION REPORT
INSPECTORS COMPLIANCE REPORT
November 13, 1984

COMPANY Union Drilling, Inc.

P. O. Drawer 40

Buckhannon, West Virginia 26201

PERMIT NO 083-0734 (11-19-82)

FARM & WELL NO Harry McMullan #7B-1682

DIST. & COUNTY Roaring Creek/Randolph

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 Strenght		
15.05	Cement Type		
23.02	Maintained Access Roads		
25.01	Necessary Equipment to Prevent Waste		
23.04	Reclaimed Drilling Pits		
23.05	No Surface or Underground Pollution		
23.07	Requirements for Production & Gathering Pipelines		
16.01	Well Records on Site		
16.02	Well Records Filed		
7.05	Identification Markings		

I HAVE INSPECTED THE ABOVE CAPTIONED WELL AND RECOMMEND THAT IT BE RELEASED:

SIGNED Phillip Tracy

DATE 6-14-85

Your well record was received and reclamation requirements approved. In accordance with Chapter 22, Article 4, Section 2, the above well will remain under bond coverage for the life of the well.

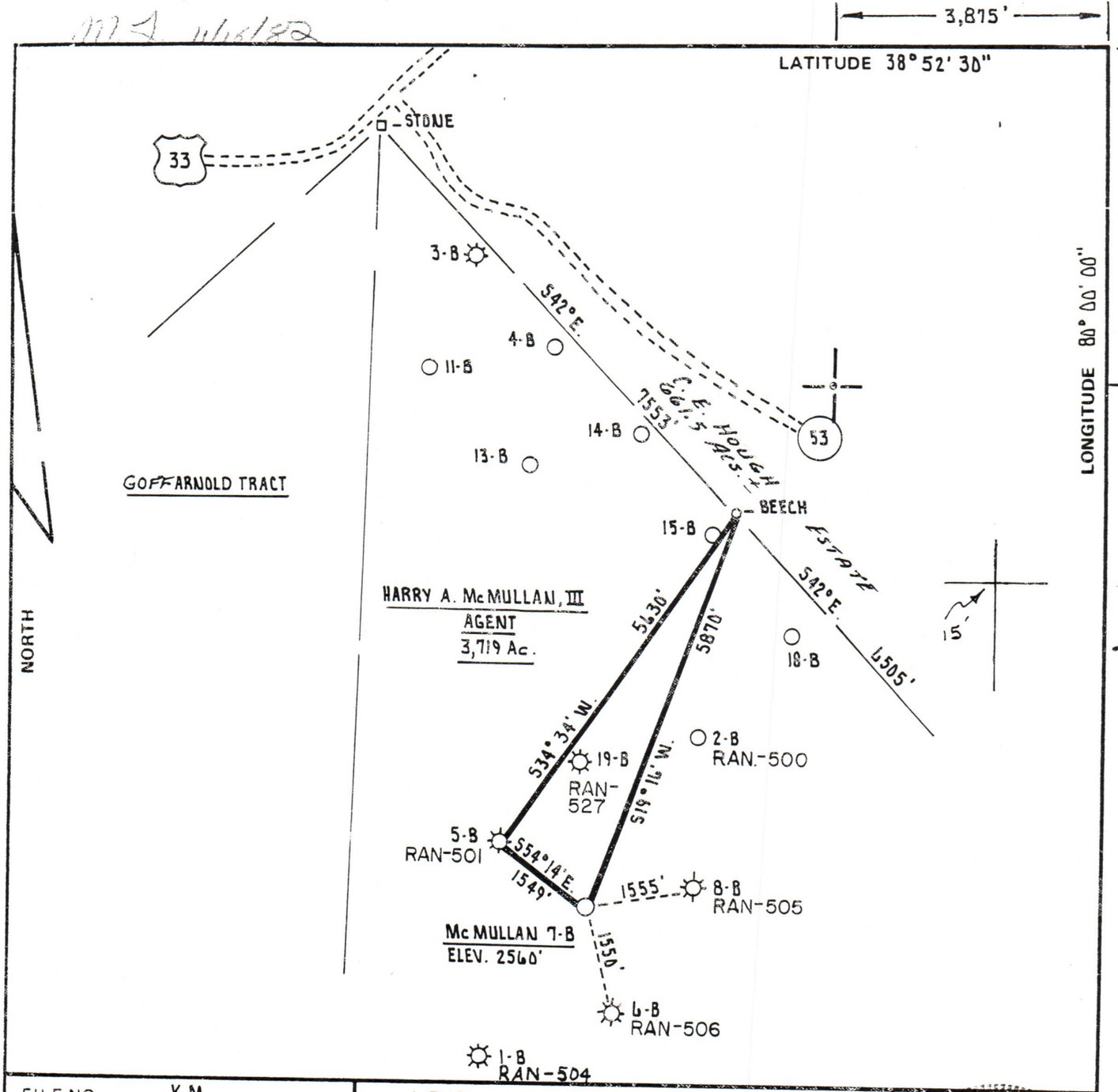
Administrator-Oil & Gas Division

June 25, 1985
DATE

TMS/nw

10/20/2023

MT 1 1/6/82



FILE NO. K.M.
DRAWING NO.
SCALE 1" = 2000'
MINIMUM DEGREE OF ACCURACY 1 PART IN 200
PROVEN SOURCE OF ELEVATION INTER. OF JEEP TRAILS NORTHEAST OF LOC. ELEV: 2545'

I THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAT IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS ALL THE INFORMATION REQUIRED BY LAW AND THE REGULATIONS ISSUED AND PRESCRIBED BY THE DEPARTMENT OF MINES.

(SIGNED) Cecil R. Main
R.P.E. _____ L.L.S. 711

CECIL R. MAIN LICENSED No. 711 STATE OF WEST VIRGINIA LAND SURVEYOR

PLACE SEAL HERE

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS

FORM IV-6
(8-78)

DATE JANUARY 7th, 19 82
OPERATOR'S WELL NO. 7-B - 1682
API WELL NO.
47 - 083 - 0734-
STATE COUNTY PERMIT Ren.

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION

WELL TYPE: OIL ___ GAS X LIQUID INJECTION ___ WASTE DISPOSAL ___
(IF "GAS,") PRODUCTION X STORAGE ___ DEEP ___ SHALLOW X
LOCATION: ELEVATION 2560' WATER SHED FLATBUSH FORK
DISTRICT ROARING CREEK COUNTY RANDOLPH
QUADRANGLE CASSITY 7.5'
SURFACE OWNER WESTVACO - HARRY McMULLAN III, AGENT ACREAGE 3,719 Ac.
OIL & GAS ROYALTY OWNER HARRY McMULLAN III, AGENT LEASE ACREAGE 3,719 Ac.
LEASE NO. 1274

10/20/2023

PROPOSED WORK: DRILL X CONVERT ___ DRILL DEEPER ___ REDRILL ___ FRACTURE OR STIMULATE X PLUG OFF OLD FORMATION ___ PERFORATE NEW FORMATION ___ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) ___

PLUG AND ABANDON ___ CLEAN OUT AND REPLUG ___
TARGET FORMATION ELK ESTIMATED DEPTH 5,500'
WELL OPERATOR UNION DRILLING, INC. DESIGNATED AGENT UNION DRILLING, INC.
ADDRESS P.O. DRAWER 40 ADDRESS P.O. DRAWER 40
BUCKHANNON, WEST VIRGINIA 26201 BUCKHANNON, WEST VIRGINIA 26201

H. T. HALL

WEST VIRGINIA; RANDOLPH COUNTY CLERK'S OFFICE

FEBRUARY 4, 1981

This instrument was this day presented to me in my office, and thereupon, together with the Certificate thereto annexed, is admitted to record.

Teste: Virgil Hamrick Clerk