



1) Date: April 7, 19 83
 2) Operator's Well No. 1 - 1722
 3) API Well No. 47 083 0768
 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
 Warren Heirs, #1 (1722)

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: 2883 Watershed: Marsh Fork
 District: Middle Fork County: Randolph Quadrangle: Pickens
- 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 SEE ATTACHED SHEET 12) COAL OPERATOR
 Address Address
- 8) SURFACE OWNER J & F Company 13) COAL OWNER(S) WITH DECLARATION ON RECORD:
 Address c/o James H. Brewster, Jr. Name SEE ATTACHED SHEET
26 Main Ave., Weston, WV 26452 Address
 Acreage 668 Name
 9) FIELD SALE (IF MADE) TO: Address
- 10) OIL & GAS INSPECTOR TO BE NOTIFIED 14) COAL LESSEE WITH DECLARATION ON RECORD:
 Name Robert Stewart (884-7782) Name Boden Coal Company
 Address P. O. Box 345 Address 215 Central Avenue
Jane Lew, WV 26378 Newark, NJ 07103
- 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, Benson
- 17) Estimated depth of completed well, 4200 feet
- 18) Approximate water strata depths: Fresh, ? feet; salt, ? feet.
- 19) Approximate coal seam depths: ? Is coal being mined in the area? Yes

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 APR 8 - 1983
 OIL AND GAS DIVISION
 WV DEPARTMENT OF MINES

20) 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		850'	850'	to surface	<u>NEAT</u>
Production	4 1/2		10 1/2#	X		4200'	380 sks. or	as required	Depths set
Tubing									Perforations:
Liners									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 Signed: Joseph C. Pettey
 My Commission Expires May 22, 1989 Its: Joseph C. Pettey, Vice President of Production

OFFICE USE ONLY
DRILLING PERMIT
 Permit number 47-083-0768 Date May 12 1983

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 January 12, 1984 unless drilling is commenced prior to that date and prosecuted with due diligence.

Bond: <u>BB</u>	Agent: <u>do</u>	Plat: <u> </u>	Casing: <u> </u>	Fee: <u>004309</u>
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Joseph C. Pettey
 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.

OFFICE USE ONLY
DRILL 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.

10/20/2023

Date: _____, 19____

By _____

Its _____



UNION DRILLING, INC.

Drawer 40
Buckhannon, WV 26201

DRILLING CONTRACTORS
PRODUCERS OF OIL AND GAS

SUPPLEMENT TO OIL AND GAS WELL PERMIT APPLICATION - FORM IV-2

DATE: _____

Operator's
Well No. _____

API Well No. _____

COAL, OIL AND GAS OWNERS ARE THE SAME:

Mr. & Mrs. Allan Warren
246 First Street
Weston, West Virginia 26452

Mr. & Mrs. Walter H. Warren, Jr.
1030 Ponderosa Drive
Culloden, West Virginia 25510

Mr. & Mrs. Irving E. Bradley
402 West Timonium Street
Lutherville, Maryland 21093

Mr. & Mrs. Andrew F. Sleigh
570 Locust Street
Weston, WV 26452

Mr. & Mrs. John W. Orr
464 Main Avenue
Weston, WV 26452

Mr. & Mrs. Warren B. Bodkin, Jr.
2617 Glendale
South Charleston, WV 25303

Mr. & Mrs. Elgin K. Van Meter
1660 Pinetree Drive
Pittsburgh, PA 15241

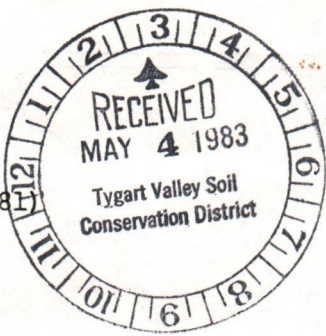
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APR 8 - 1983

OIL AND GAS DIVISION
WV DEPARTMENT OF MINES

10/20/2023

IV-9
(Rev 8-81)



DATE 5-2-83

WELL NO. 1722

State of West Virginia
Department of Mines
Oil and Gas Division
API NO. 47 - Randolph - 768

CONSTRUCTION AND RECLAMATION PLAN

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

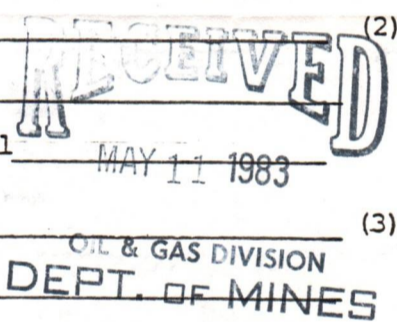
DESIGNATED AGENT Joseph C. Vanzant, Jr.
Address Union Drilling, Inc.
Telephone P. O. Drawer 40
Buckhannon, WV 26201

LANDOWNER J.F. Company
Revegetation to be carried out by Union Drilling, Inc.

SOIL CONS. DISTRICT Tygart Valley
Joseph C. Pettey, VP (Agent)

This plan has been reviewed by Tygart Valley SCD. All corrections and additions become a part of this plan: 5-7-83 (Date)
Junior Hedrick (SCD Agent)

ACCESS ROAD	LOCATION
Structure <u>Culvert Pipe (12" Min)</u> (A)	Structure _____ (1)
Spacing <u>at Natural Drains</u>	Material _____
Page Ref. Manual _____	Page Ref. Manual _____
Structure <u>Cross Drains</u> (B)	Structure _____ (2)
Spacing <u>250' +</u>	Material _____
Page Ref. Manual _____	Page Ref. Manual _____
Structure <u>Roadway Drain</u> (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	<u>3</u>	Tons/acre
or correct to pH	<u>6.5</u>	
Fertilizer	<u>600</u>	lbs/acre
	<u>(10-20-20 or equivalent)</u>	
Mulch	<u>2</u>	Tons/acre
Seed*	<u>Ky - 31</u>	<u>30</u> lbs/acre
	<u>Birdsfoot</u>	<u>10</u> lbs/acre
	<u>Domestic Rye</u>	<u>10</u> lbs/acre

Treatment Area II

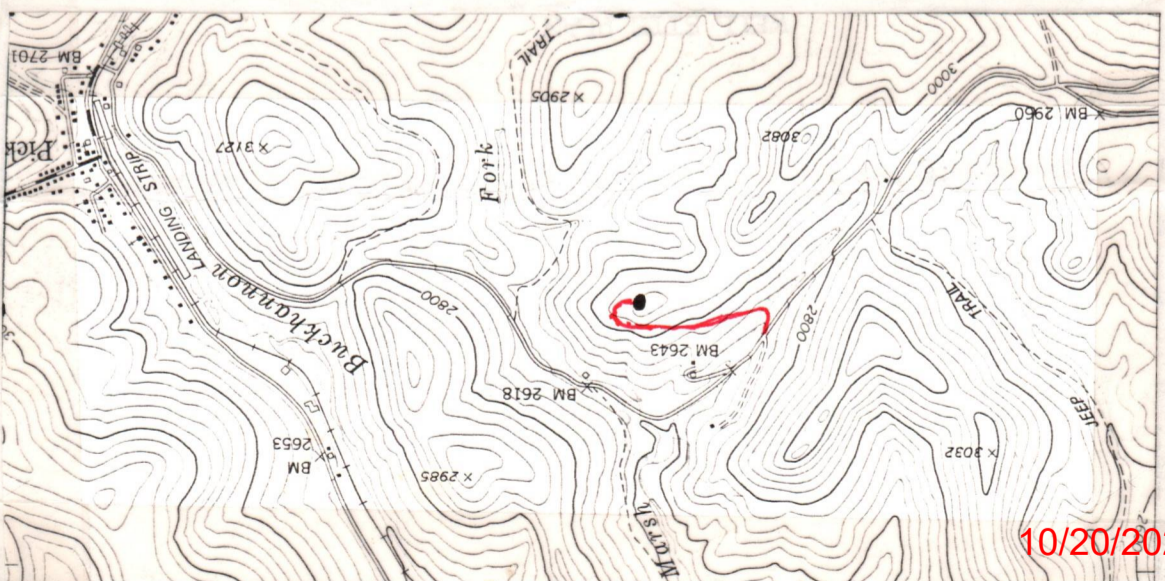
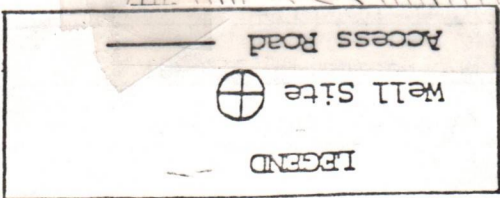
Lime	<u>3</u>	Tons/acre
or correct to pH	<u>6.5</u>	
Fertilizer	<u>600</u>	lbs/acre
	<u>(10-20-20 or equivalent)</u>	
Mulch	<u>2</u>	Tons/acre
Seed*	<u>Ky - 31</u>	<u>30</u> lbs/acre
	<u>Birdsfoot</u>	<u>10</u> lbs/acre
	<u>Domestic Rye</u>	<u>10</u> lbs/acre

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

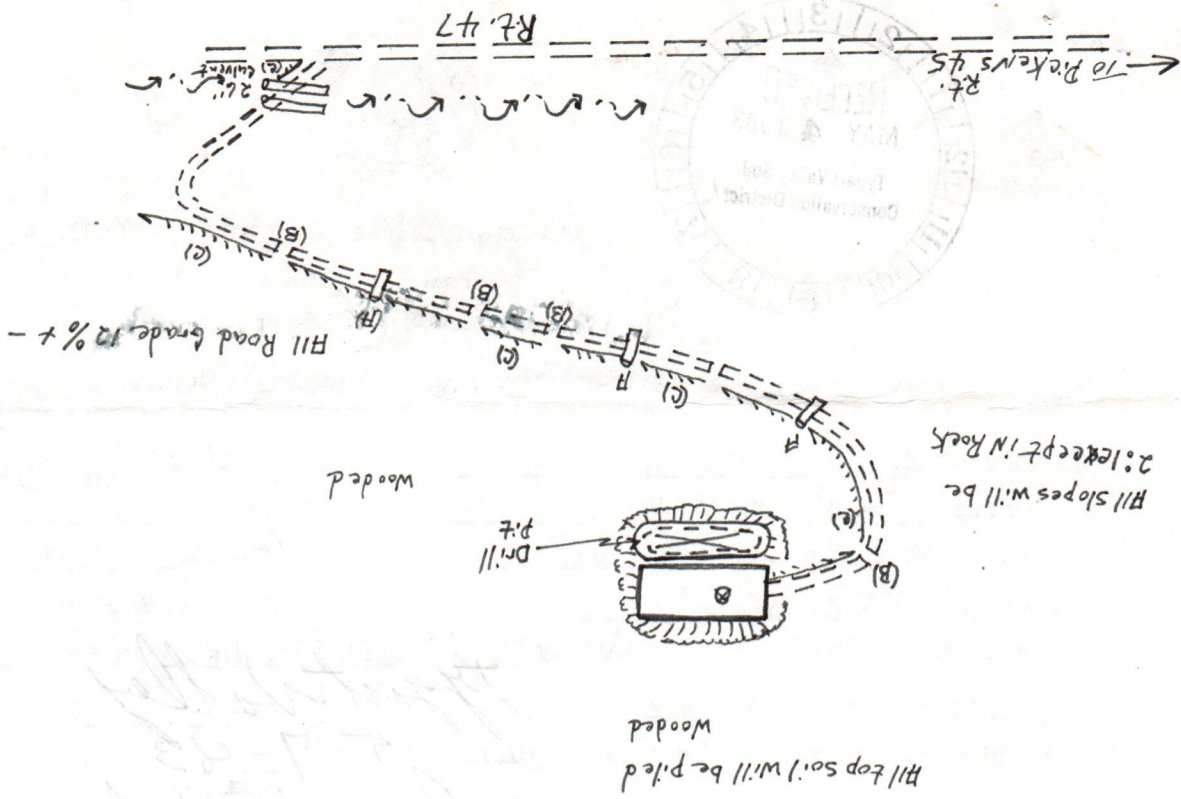
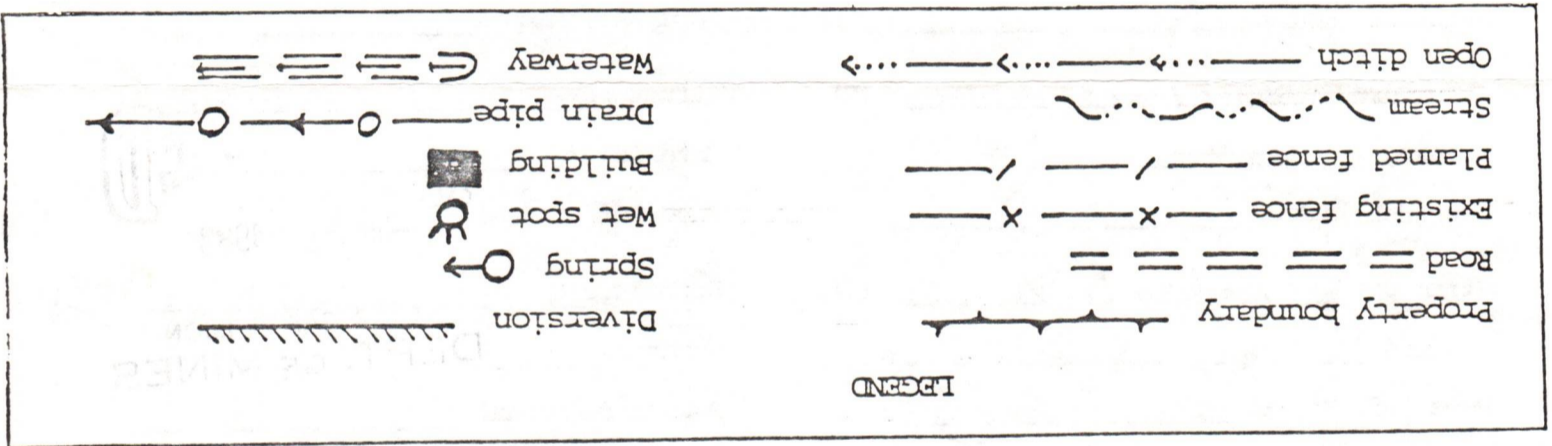
PLAN PREPARED BY Danny O. Morgan 10/20/2023
ADDRESS P. O. Drawer 40
Buckhannon, WV 26201
PHONE NO. (304) 472-4610

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 Pickens 7.5



Ketch 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.



OIL AND GAS LEASE

33545

#1282

THIS AGREEMENT made and entered into this 23rd day of November, 1980, A.D., by and between Allen A. Warren and Bettye K. Warren, his wife; Walter H. Warren, Jr. and Lola Ann Warren, his wife; Gladys Post Warren by Allen A. Warren, Attorney-in-Fact; Irving E. Bradley and July Bradley, his wife; Andrew F. Sleigh and Mary Gertrude Sleigh, his wife; Elgin K. Van Meter and Elizabeth Van Meter, his wife; John W. Orr and Virginia Orr, his wife; Warren G. Bodkin, Jr. and Mary O. Bodkin, his wife; parties of the first part, and

UNION DRILLING, INC., POST OFFICE DRAWER 40, BUCKHANNON, WEST VIRGINIA, 26201, party of the second part,

WITNESSETH, that the said parties of the first part for and in consideration of the sum of \$1.00 to them in hand paid by the party of the second part, the receipt of which is hereby acknowledged and of the covenants and agreements hereinafter contained on the part of the said party of the second part, to be paid, kept and performed, has leased and let, and by these presents do lease and let unto the said party of the second part, its heirs, successors and assigns, for the sole and only purpose of mining and operating for oil and gas, and of laying pipelines and installing sufficient equipment thereon to take care of the said products; all that certain tract of land situate in Middle Fork District of Randolph County, West Virginia, containing 668 acres, more or less, and more fully bounded, now or formerly, as follows:

On the North by lands of Coastal Lumber, Eona Taylor, M. E. Cutright;

On the East by lands of Pickens Corp., Stewart Smith, Vernon Hines;

On the South by lands of Vernon Hines, B. F. Isch;

On the West by lands of B. F. Isch; Henry Spies; J. M. Huber; R. Glenn Haddix.

JAN 23 10 50 AM '81

Being the same oil and gas acquired by lessor from Mary Warren by will of record in Will Book G at page 132.

Excepting and reserving, however, therefrom, 200 feet around the principal buildings now on the premises on which no well shall be drilled by either party except by mutual consent.

The parties of the first part expressly except and reserve unto themselves from the operations of this lease all oil and gas and appurtenant rights below a depth of 5,000 feet. It is further expressly understood and agreed that no rights of pooling or unitization are granted, leased or let unto lessee by this instrument.

It is agreed that this lease shall remain in force for three years and as long thereafter as oil and gas, or either of them, is produced from said lands by the said party of the second part, their successors, heirs and assigns.

IN CONSIDERATION OF THE PREMISES, the said party of the second part covenant and agree:

To deliver to the credit of the parties of the first part, their heirs or assigns, free of cost, in the pipeline to which the party of the second part may connect their wells, the equal one-eighth part of all oil produced and saved from the leased premises.

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APR 8 - 1983

OIL AND GAS DIVISION
WV DEPT. OF TREASURY

10/20/2023

#1282
CA

To pay to the parties of the first part, their heirs or assigns, the one-eighth of all money received from the sale of gas from each and every gas well drilled on said premises, the product from which is marketed and used off the premises, said payments to be made by party of the second part, by check mailed to last reported address, to the parties of the first part, their heirs or assigns, and payable monthly within five days of the receipt of said money from the sale of said products.

Said parties of the second part shall not be required in any event to increase the rate of said gas well payments or said royalty of oil by reason of any royalty or interest in said oil or gas that may have been heretofore sold, reserved or conveyed by the parties of the first part, or their predecessors in title or otherwise.

Party of the second part covenant and agree to locate all wells so as to interfere as little as possible with the cultivated portions of the farm. And further, that the party of the second part must commence a well on the said premises within ninety days from the date of this agreement (and prosecute same to completion with due diligence) or in default thereof, pay to the parties of the first part, for the further delay an annual advance rental of \$668.00 on the said premise from the time above specified for each three months until such well shall be commenced. And a failure to commence such well or to pay said rental due, for a period of thirty (30) days thereafter, shall render this lease null and void as to both parties, and can only be renewed by mutual consent. And no right of action shall, after such failure, accrue to either party on account of the breach of any covenant herein contained.

Payments are to be made as shown on Schedule A attached hereto.

The party of the first part, their heirs or assigns, excepts and reserves gas to the amount of 200,000 cubic feet per year for own use, by laying a line to any gas well on said land, limited for light and heat in one dwelling house on said land, said gas to be used at their own risk and subject to the use, operation and right of abandonment of the well by the said party of the second part, its heirs, successors or assigns.

Party of the second part shall pay all damages done to growing crops by reason of operation for oil and gas under said lease.

It is agreed that party of the second part are to have the privilege of using sufficient water and gas from the said premises to run all machinery necessary for drilling and operating thereon, and all rights of way necessary to develop the premises or remove all machinery, casing, tubing, and fixtures placed on the said premises; and further upon the payment of \$1.00 by the party of the second part, its heirs and assigns, said party of the second part, its successors and assigns, shall have the right to surrender this lease for cancellation, after which all payments and liabilities, thereafter to accrue under and by virtue of its terms shall cease and terminate, and this lease becomes absolutely null and void.

IN WITNESS WHEREOF, the parties of this agreement have hereunto set their hands and seals the day and year first above written.

10/20/2023

WITNESS:

Bettye K. Warren
Bettye K. Warren

Allen A. Warren
Allen A. Warren

Lola Ann Warren
Lola Ann Warren

Walter H. Warren, Jr.
Walter H. Warren, Jr.

Allen A. Warren
Gladys Post Warren by Allen A.
Warren, Attorney in Fact

Irving E. Bradley
Irving E. Bradley

Judy Bradley
Judy Bradley

Andrew F. Sleigh
Andrew F. Sleigh

Mary Gertrude Sleigh
Mary Gertrude Sleigh

Elgin K. Van Meter
Elgin K. Van Meter

Elizabeth Van Meter
Elizabeth Van Meter

John W. Orr
John W. Orr

Virginia Orr
Virginia Orr

Warren G. Bodkin, Jr.
Warren G. Bodkin, Jr.

Mary O. Bodkin
Mary O. Bodkin

Prepared by, and when recorded, kindly return to: R. Dennis Xander,
Union Drilling, Inc., Post Office Drawer 40, Buckhannon, West Virginia, 26201.

STATE OF West Virginia
COUNTY OF Lewis

BE IT REMEMBERED this 23rd day of November, 1980, A. D., before me a
Notary Public in and for said county, personally appeared the within named
Allen A. Warren and Bettye K. Warren, his wife, and acknowledged the within
instrument to be their act and deed and desired the same to be recorded.

WITNESS my hand and notarial seal the day and year aforesaid.

James F. Lewis
Notary Public

My commission expires: Sept. 5, 1983

10/20/2023

STATE OF WEST VIRGINIA

COUNTY OF CABELL

BE IT REMEMBERED this 23rd day of November, 1980, A. D., before me a Notary Public in and for said county, personally appeared the within named Walter H. Warren, Jr. and Lola Ann Warren, his wife, and acknowledged the within instrument to be their act and deed and desired the same to be recorded.

WITNESS my hand and notarial seal the day and year aforesaid.

Miana J. Parker
Notary Public

My commission expires: FEB. 11, 1990

STATE OF West Virginia

COUNTY OF Lewis

BE IT REMEMBERED this 23rd day of November, 1980, A. D., before me a Notary Public in and for said county, personally appeared the within named Allen A. Warren, Attorney in Fact for Gladys Post Warren, and acknowledged the within instrument to be their act and deed and desire the same to be recorded.

WITNESS my hand and notarial seal the day and year aforesaid.

Anna F. Parks
Notary Public

My commission expires: Sept 5, 1983

STATE OF _____

COUNTY OF _____

BE IT REMEMBERED this _____ day of November, 1980, A. D., before me a Notary Public in and for said county, personally appeared the within named Irving E. Bradley and Judy Bradley, his wife, and acknowledged the within instrument to be their act and deed and desired the same to be recorded.

WITNESS my hand and notarial seal the day and year aforesaid.

Notary Public

My commission expires: _____

STATE OF _____

COUNTY OF _____

BE IT REMEMBERED this _____ day of November, 1980, A.D., before me a Notary Public in and for said county, personally appeared the within named Andrew F. Sleigh and Mary Gertrude Sleigh, his wife, and acknowledged the within instruemtn to be their act and deed and desired the same to be recorded.

WITNESS my hand and notarial seal the day and year aforesaid.

Notary Public

My commission expires: _____

10/20/2023

STATE OF _____

COUNTY OF _____

BE IT REMEMBERED this _____ day of November, 1980, A.D., before me a Notary Public in and for said county, personally appeared the within named Elgin K. Van Meter and Elizabeth Van Meter, and acknowledged the within instrument to be their act and deed and desired the same to be recorded.

WITNESS my hand and notarial seal the day and year aforesaid.

Notary Public

My commission expires: _____

STATE OF WEST VIRGINIA

COUNTY OF LEWIS

BE IT REMEMBERED this 23rd day of November, 1980, A.D., before me a Notary Public in and for said county, personally appeared the within named John W. Orr and Virginia Orr, his wife, and acknowledged the within instrument to be their act and deed and desired the same to be recorded.

WITNESS my hand and notarial seal the day and year aforesaid.

Miana L. Parker
Notary Public

My commission expires: FEB. 11, 1990

STATE OF WEST VIRGINIA

COUNTY OF KANAWHA

BE IT REMEMBERED this 23rd day of November, 1980, A.D., before me a Notary Public in and for said county, personally appeared the within named Warren G. Bodking, Jr. and Mary O. Bodkin, his wife, and acknowledged the within instrument to be their act and deed and desired the same to be recorded.

Miana L. Parker
Notary Public

My commission expires: FEB. 11, 1990

10/20/2023

SCHEDULE OF PAYMENTS:

Allan A. Warren and Bettye K. Warren 246 First Street Weston, West Virginia 26452	\$ 83.50 per year
Walter H. Warren, Jr. and Lola Ann Warren 1030 Ponderosa Drive Culloden, West Virginia 25510	\$ 83.50 per year
Irving E. Bradley and Judy Bradley 402 West Timonium Street Lutherville, Maryland 21093	\$167.00 per year
Andrew F. Sleigh and Mary Gertrude Sleigh 570 Locust Street Weston, West Virginia 26452	\$ 83.50 per year
John W. Orr and Virginia Orr 464 Main Avenue Weston, West Virginia 26452	\$ 83.50 per year
Warren B. Bodkin, Jr. and Mary O. Bodkin 2617 Glendale South Charleston, West Virginia 25303	\$ 83.50 per year
Elgin K. Van Meter and Elizabeth Van Meter 1660 Pinetree Drive Pittsburgh, PA 15241	\$ 83.50 per year

WEST VIRGINIA; RANDOLPH COUNTY CLERK'S OFFICE

JANUARY 28, 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



IV-35

(Rev 8-81)

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OCT 21 1983

State of West Virginia
Department of Mines
Oil and Gas Division

Date October 18, 1983
Operator's
Well No. 1 - 1722
Farm Warren Heirs #1
API No. 47 - 083 - 0768

OIL & GAS DIVISION
DEPT. OF MINES

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: 2883' Watershed Marsh Fork
District: Middle Fork County Randolph Quadrangle Pickens

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 J & F Company
ADDRESS c/o James Brewster, Jr., 26 Main Avenue Weston, WV 26452
MINERAL RIGHTS OWNER See Attached Sheet
ADDRESS
OIL AND GAS INSPECTOR FOR THIS WORK Robert Stewart
ADDRESS P. O. Box 345, Jane Lew, WV 26378
PERMIT ISSUED May 12, 1983
DRILLING COMMENCED 08/30/83
DRILLING COMPLETED 09/07/83

Table with 4 columns: Casing & Tubing, Used in Drilling, Left in Well, Cement fill up Cu. ft. Rows include sizes like 20-16, 13-10, 9 5/8, 8 5/8, 7, 5 1/2, 4 1/2, 3, 2, and Liners used.

IF APPLICABLE: PLUGGING OF DRY HOLE ON CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED ON
GEOLOGICAL TARGET FORMATION Benson Depth 4216 feet
Depth of completed well 4216 feet Rotary x / Cable Tools
Water strata depth: Fresh 46', 300 feet; Salt none feet
Coal seam depths: 12/130 Is coal being mined in the area? no

OPEN FLOW DATA
Producing formation Benson Pay zone depth 4072 feet
Gas: Initial open flow show Mcf/d Oil: Initial open flow Bbl/d
Final open flow 1,876 Mcf/d Oil: Final open flow Bbl/d
Time of open flow between initial and final tests ? hours
Static rock pressure 1075 psig (surface measurement) after 24 hours shut in
(If applicable due to multiple completion--)

Second producing formation Pay zone depth 10/20/2023 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)

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

On 9/19/83 Halliburton Foam Fractured:

Benson 4064/70 with 90,000 # sand (20/40 and 80/100)
289 BBL water
930,000 SCF Nitrogen

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OCT 20 1983
DEPT. OF MINES
& GAS DIVISION

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all fresh and salt water, coal, oil and gas
Surface			0	4	
Shale			4	14	
Sand			14	36	Fresh water at 46' and 300'
Sand and Shale			36	121	
Coal			121	130	
Sand and Shale			130	1597	
Blue Monday			1597	1645	
Big Lime			1645	1776	
Big Injun			1776	1884	
Squaw			1884	1930	
Sand and Shale			1930	2096	
Gordon			2096	2110	
Sand and Shale			2110	2236	
Gordon			2236	2276	
Sand and Shale			2276	2366	
4th Sand			2366	2416	
Shale			2416	2431	
5th Sand			2431	2470	
Bayard			2470	2530	
Shale			2530	2534	
Lower Bayard			2534	2552	
Sand and Shale			2552	2615	
Elizabeth			2615	2650	
Sand and Shale			2650	3453	
Bradford			3453	3492	
Sand and Shale			3492	3754	
Riley			3754	3822	
Sand and Shale			3822	4057	
Benson			4057	4072	
Sand and Shale			4072	4216 TD	Show of gas

(Attach separate sheets as necessary)

UNION DRILLING, INC.

Well Operator

By: *Joseph C. Petty*

Joseph C. Petty
Vice President of Production

Date: October 18, 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 ..., encountered in the drilling of a well."

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

RECEIVED
NOV 8 - 1984
OIL & GAS DIVISION
DEPT. OF MINES

Permit No. 083-0768
Company Union Drilling, Inc.
Inspector PHILLIP TRACY
Date October 25, 1983

County Randolph
District Middle Fork
Farm Warren Keirs
Well No. 1-1722 Issued 5-12-83

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	—	—
.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	—	—
7.05	Identification markings	—	—

COMMENTS: _____

I have inspected the above well and have found it to be in compliance with the rules and regulations of the Office of Oil and Gas Department of Mines of the State of West Virginia, and the well can be released from the permitted work.

SIGNED: Phillip Tracy 10/20/2023
DATE: 11-1-84



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

WALTER N. MILLER
 DIRECTOR

THEODORE M. STREIT
 ADMINISTRATOR

January 10, 1985

Union Drilling, Inc.
 P. O. Drawer 40
 Buckhannon, West Virginia 26201

In Re: PERMIT NO: 47-083-0768
 FARM: Warren Weirs
 WELL NO: 1-1722
 DISTRICT: Middle Fork
 COUNTY: Randolph
 ISSUED: 5-12-83

Gentlemen:

The FINAL INSPECTION REPORT for the above captioned well has been received in this office. Only the column checked below applies:

The well designated by the above permit number has been released under your Blanket Bond.

Please return the enclosed cancelled single bond which covered the well designated by the above permit number to the surety company who executed said bond in your behalf, in order that they may give you credit on their records.

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

Very truly yours,

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

RECEIVED

APR 8 - 1983

OIL AND GAS DIVISION
WV DEPARTMENT OF MINES

#1282-3

33599

THIS LEASE RATIFICATION, made this 28th day of January, 1981
by and between Andrew F. Sleigh and Mary Gertrude Sleigh, his wife, party of
the first part and UNION DRILLING, INC., A West Virginia Corporation, party of
the second part,

WITNESSETH: That for and in consideration of the sum of One Dollar, cash
in hand paid, the receipt of which is hereby acknowledged, the said party of
the first part does hereby accept, approve, ratify and confirm unto the said
party of the second part, their successors and assigns, that certain lease or
grant for oil and gas purposes made by Allan A. Warren and Bettye K. Warren;
Walter H. Warren, Jr. and Lola Anne Warren; Warren G. Bodkin, Jr. and Mary O.
Bodkin to Union Drilling, Inc., Post Office Drawer 40, Buckhannon, West
Virginia, 26201, bearing date of November 23rd, 1980, and being of record in
the Office of the Clerk of the County Commission of Randolph County, West
Virginia, in Deed Book _____ at Page _____, said lease covering 668 acres,
more or less, of oil and gas situate in Middle Fork District of Randolph
County, West Virginia, and approving and confirming all acts heretofore done
and all payments made by virtue of said lease or grant, and the party of the
first part does hereby certify that they will be bound by all of its terms and
conditions as fully and effectually and to all its intents and for all pur-
poses as they would have been bound if they had properly signed and acknow-
ledged the original lease.

IT IS expressly understood by the parties of this agreement that all
rentals and royalties accruing as a result of the herein ratified lease, or
as a result of this ratification, shall be paid to Andrew F. Sleigh and/or
Mary Gertrude Sleigh, 570 Locust Street, Weston, West Virginia, 26452.

TO HAVE AND TO HOLD said leasehold or other estate to UNION DRILLING,
INC., a Corporation, their successors and assigns, for the unexpired portion
of the term of said lease or any extension thereof, subject to the terms and
limitations therein contained.

WITNESS the following signatures:

Andrew F. Sleigh Jr
Andrew F. Sleigh

Mary Gertrude Sleigh
Mary Gertrude Sleigh

Prepared by, and when recorded, kindly return to: Patrick A. Brake,
Union Drilling, Inc., Post Office Drawer 40, Buckhannon, West Virginia, 26201.

STRATA ABOVE 5,000 FEET

10/20/2023

#1282-3
CR

STATE OF WEST VIRGINIA

COUNTY OF LEWIS

BE IT REMEMBERED this 27th day of January, 1981, before me a Notary Public in and for said county, personally appeared the within named Andrew F. Sleigh and Mary Gertrude Sleigh, his wife, AND acknowledged the within instrument to be their act and deed and desired the same to be recorded.

WITNESS my hand and notarial seal the day and year aforesaid.

Robert Dennis Kander
Notary Public

My commission expires: the 2nd day of February, 1986.

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

RECEIVED

APR 8 - 1983

OIL AND GAS DIVISION
WV DEPARTMENT OF MINES RATIFICATION

33357

#1282-1

THIS LEASE RATIFICATION, made this 6 day of JAN, 1987
by and between Irving E. Bradley and Judy Bradley, his wife, party of the
first part and UNION DRILLING, INC., A West Virginia Corporation, party of
the second part,

WITNESSETH: That for and in consideration of the sum of One Dollar, cash
in hand paid, the receipt of which is hereby acknowledged, the said party of
the first part does hereby accept, approve, ratify and confirm unto the said
party of the second part, their successors and assigns, that certain lease or
grant for oil and gas purposes made by Allan A. Warren and Bettye K. Warren;
Walter H. Warren, Jr. and Lola Anne Warren; Warren G. Bodkin, Jr. and Mary O.
Bodkin to Union Drilling, Inc., Post Office Drawer 40, Buckhannon, West
Virginia, 26201, bearing date of November 23rd, 1980, and being of record in
the Office of the Clerk of the County Commission of Randolph County, West
Virginia, in Deed Book _____ at Page _____, said lease covering 668 acres,
more or less, of oil and gas situate in Middle Fork District of Randolph
County, West Virginia, and approving and confirming all acts heretofore done
and all payments made by virtue of said lease or grant, and the party of the
first part does hereby certify that they will be bound by all of its terms and
conditions as fully and effectually and to all its intents and for all pur-
poses as they would have been bound if they had properly signed and acknow-
ledged the original lease.

IT IS expressly understood by the parties of this agreement that all
rentals and royalties accruing as a result of the herein ratified lease, or
as a result of this ratification, shall be paid to Irving E. Bradley and/or
Judy Bradley, 402 West Timonium Street, Lutherville, Maryland, 26452.

TO HAVE AND TO HOLD said leasehold or other estate to UNION DRILLING,
INC., a Corporation, their successors and assigns, for the unexpired portion
of the term of said lease or any extension thereof, subject to the terms and
limitations therein contained.

WITNESS the following signatures:

Irving E. Bradley
Irving E. Bradley

Judy (Julia) Bradley
Judy Bradley

FILED

JAN 13 1 25 PM '87

Prepared by, and when recorded, kindly return to: Patrick A. Brake
Union Drilling, Inc., Post Office Drawer 40, Buckhannon, West Virginia, 26201.

STRATA ABOVE 5,000 FEET.

10/20/2023

#1282-1
ca

STATE OF MARYLAND

COUNTY OF ANNE ARUNDEL

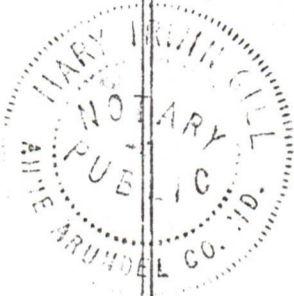
BE IT REMEMBERED this 6 day of JAN, 1981, before me a Notary Public in and for said county, personally appeared the within named Irving E. Bradley and Judy Bradley, his wife, AND acknowledged the within instrument to be their act and deed and desire the same to be recorded.

WITNESS my hand and notarial seal the day and year aforesaid.

M IRWIN GILL

M Irwin Gill
Notary Public

My commission expires: the 1 day of July, 1982.



WEST VIRGINIA; RANDOLPH COUNTY CLERK'S OFFICE

JANUARY 13, 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

RECEIVED

APR 8 - 1983

OIL AND GAS DIVISION
WV DEPARTMENT OF MINES

LEASE RATIFICATION

33542

THIS LEASE RATIFICATION, made this 7th day of JANUARY, 1981 by and between Elgin Van Meter and Elizabeth Van Meter, his wife, party of the first part and UNION DRILLING, INC., A West Virginia Corporation, party of the second part,

WITNESSETH: That for and in consideration of the sum of One Dollar, cash in hand paid, the receipt of which is hereby acknowledged, the said party of the first part does hereby accept, approve, ratify and confirm unto the said party of the second part, their successors and assigns, that certain lease or grant for oil and gas purposes made by Allan A. Warren and Bettye K. Warren; Walter H. Warren, Jr. and Lola Anne Warren; Warren G. Bodkin, Jr. and Mary O. Bodkin to Union Drilling, Inc., Post Office Drawer 40, Buckhannon, West Virginia, 26201, bearing date of November 23, 1980, and being of record in the Office of the Clerk of the County Commission of Randolph County, West Virginia, in Deed Book _____ at Page _____, said lease covering 668 acres, more or less, of oil and gas situate in Middle Fork District of Randolph County, West Virginia, and approving and confirming all acts heretofore done and all payments made by virtue of said lease or grant, and the party of the first part does hereby certify that they will be bound by all of its terms and conditions as fully and effectually and to all its intents and for all purposes as they would have been bound if they had properly signed and acknowledged the original lease.

IT IS expressly understood by the parties of this agreement that all rentals and royalties accruing as a result of the herein ratified lease, or as a result of this ratification, shall be paid to Elgin Van Meter and/or Elizabeth Van Meter, 1660 Pinetree Drive, Pittsburgh, Pennsylvania, 15241.

TO HAVE AND TO HOLD said leasehold or other estate to UNION DRILLING, INC., a Corporation, their successors and assigns, for the unexpired portion of the term of said lease or any extension thereof, subject to the terms and limitations therein contained.

WITNESS the following signatures:

Elgin Van Meter
Elgin Van Meter

Elizabeth Van Meter
Elizabeth Van Meter

Prepared by, and when recorded, kindly return to: Patrick A. Brake, Union Drilling, Inc., Post Office Drawer 40, Buckhannon, West Virginia, 26201.

STRATA ABOVE 5,000 FEET.

10/20/2023

FILED
JAN 20 10 57 AM '81

1282-2
ca

COMMONWEALTH OF PENNSYLVANIA

COUNTY OF Allegheny

BE IT REMEMBERED this 8th day of January, 1981, before me a Notary Public in and for said county, personally appeared the within named Elgin Van Meter and Elizabeth Van Meter, his wife, AND acknowledged the within instrument to be their act and deed and desired the same to be recorded.

WITNESS my hand and notarial seal the day and year aforesaid.

Sandra M. Walters
Notary Public

My commission expires: the 22nd day of December, 1984

SANDRA M. WALTERS, Notary Public
PITTSBURGH, ALLEGHENY COUNTY
COMMONWEALTH OF PENNSYLVANIA
MY COMMISSION EXPIRES
DECEMBER 22, 1984

WEST VIRGINIA; RANDOLPH COUNTY CLERK'S OFFICE

JANUARY 28, 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

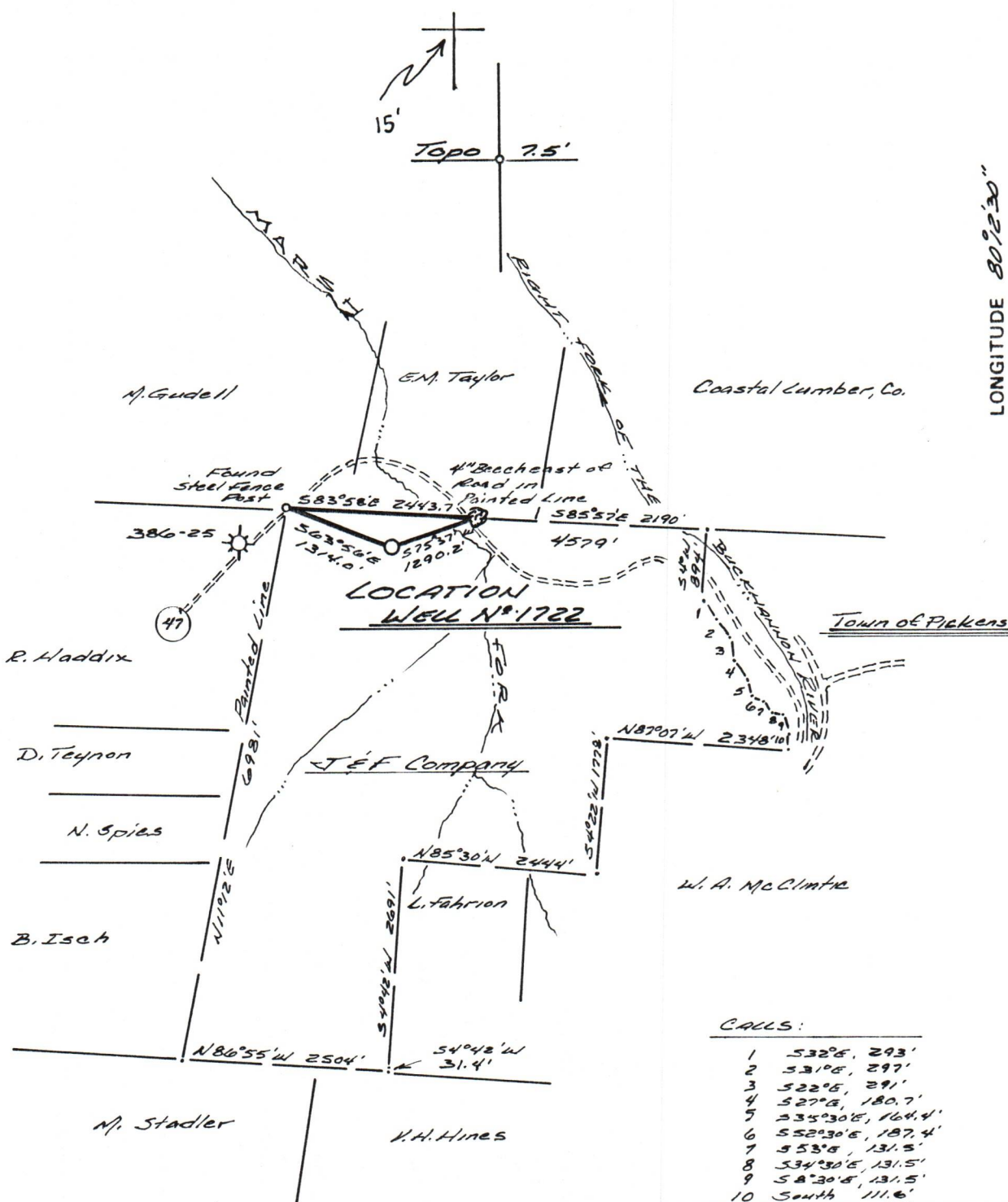
10/20/2023

4-13-83

LATITUDE 38°40'00"

LONGITUDE 80°2'30"

NORTH



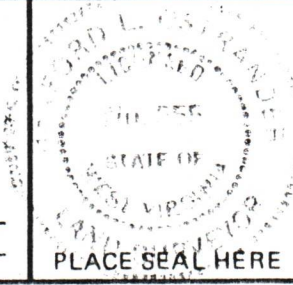
CALLS:

- 1 532°E, 293'
- 2 531°E, 297'
- 3 522°E, 291'
- 4 527°E, 180.7'
- 5 535°30'E, 164.4'
- 6 552°30'E, 187.4'
- 7 553°E, 131.5'
- 8 534°30'E, 131.5'
- 9 58°30'E, 131.5'
- 10 South 111.6'

FILE NO. 40.01
 DRAWING NO. 83-1
 SCALE 1" = 2000'
 MINIMUM DEGREE OF ACCURACY 1 in 200
 PROVEN SOURCE OF ELEVATION BM-2643'
N.W. of location.

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) Robert J. Detwiler
 R.P.F. Buckhannon, WV L.L.S. 535



STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION



DATE 6 April, 19 83
 OPERATOR'S WELL NO. 1722
 API WELL NO. 47 - 083 - 0768
 STATE COUNTY PERMIT

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS
 WELL TYPE: OIL ___ GAS ___ LIQUID INJECTION ___ WASTE DISPOSAL ___
 (IF "GAS,") PRODUCTION ___ STORAGE ___ DEEP ___ SHALLOW ___
 LOCATION: ELEVATION 2883' WATER SHED Marsh Fork
 DISTRICT Middle Fork COUNTY Randolph
 QUADRANGLE Pickens
 SURFACE OWNER J & F Company ACREAGE 668
 OIL & GAS ROYALTY OWNER Warrens, Heirs LEASE ACREAGE 668
 LEASE NO. 1282
 PROPOSED WORK: DRILL CONVERT ___ DRILL DEEPER ___ REDRILL ___ FRACTURE OR STIMULATE PLUG OFF OLD FORMATION ___ PERFORATE NEW FORMATION ___ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) ___

PLUG AND ABANDON ___ CLEAN OUT AND REPLUG ___
 TARGET FORMATION Benson ESTIMATED DEPTH 4200'
 WELL OPERATOR Union Drilling, Inc. DESIGNATED AGENT JOSEPH C. VANZANT, JR.
 ADDRESS P.O. Drawer 40 ADDRESS P.O. Drawer 40

R AND 0768

FORM IV-6 (8-78)