



1) Date: April 12, 19 83
 2) Operator's Well No. 1 - 1721
 3) API Well No. 47 - 041 - 3384
 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

Lough Heirs #1 (1721)

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: 1229' Watershed: Glady Fork
 District: Court House County: Lewis Quadrangle: Roanoke
- 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 Denzil & Alma Bailey 13) COAL OWNER(S) WITH DECLARATION ON RECORD:
 Address P. O. Box 341 Name SAME AS OIL & GAS OWNERS: See
Weston, WV 26452 Address Attached Sheet
 Acreage 89.25 Name
 Address
- 9) FIELD SALE (IF MADE) TO: 14) COAL LESSEE WITH DECLARATION ON RECORD:
 Address Not Determined at this time Name none
 Address
- 10) OIL & GAS INSPECTOR TO BE NOTIFIED
 Name Robert Bates 269-3820
 Address 109 Minnich Street
Weston, WV 26452
- 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, Alexander
- 17) Estimated depth of completed well, 4500 feet
 18) Approximate water strata depths: Fresh, ? feet; salt, ? feet.
 19) Approximate coal seam depths: ? Is coal being mined in the area? Yes / No XX /

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 | | 4500' | 4500' | 400 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
 My Commission Expires 05/22/89

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

OFFICE USE ONLY

Permit number 47-041-3384 **DRILLING PERMIT** Date September 14, 1983
09/29/2023

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 May 14, 1984 unless drilling is commenced prior to that date and prosecuted with due diligence.

| | | | | |
|-----------------|------------------|-----------------|-------------------|--------------------|
| Bond: <u>BB</u> | Agent: <u>LS</u> | Plat: <u>20</u> | Casing: <u>28</u> | Fee: <u>004759</u> |
|-----------------|------------------|-----------------|-------------------|--------------------|

Patricia Stewart
 Administrator, Office of Oil and Gas

Line Item Explanation

- 1) Date of Application
- 2) Your well name and number
- 3) To be filled out by office of oil & gas
- 4A) "Oil" means natural crude oil or petroleum and other hydrocarbons, regardless of gravity, which are produced at the well in liquid form by ordinary production methods and which are not the result of condensation of gas after it leaves underground reservoirs: "Gas" means all natural gas and all other fluid hydrocarbons not defined as oil.
- 4B) "Shallow well" means any well drilled and completed in a formation above the top of the uppermost member of the "Onondaga Group" or a depth less than six thousand feet, whichever is shallower.
"Deep well" means any well drilled and completed in a formation at or below the top of the uppermost member of the "Onondaga Group" or at a depth less than six thousand feet, whatever is shallower.
- 5) Where well is located
- 6) Before a permit can be issued in a corporation, company partnership, or fictitious name, the name must be registered with the Secretary of State Office
- 7) Use separate sheet if necessary
- 8) Present surface owner at time application is filed.
- 9) Optional
- 11) See Reg. 7.01 relating to code §22-4-1k
- 12) "Coal Operator" means any persons, firm, partnership, partnership association or corporation that proposes to or does operate a coal mine. See Note 24
- 13 & 14) As per §22-4-20; See Note 24
- 15) Work that will be attempted—A separate Form IV-2 shall not be required for fracturing or stimulating a well where fracturing or stimulating is to be part of the work for which a permit is sought and is noted as such on the Form IV-2 filed in connection therewith.
- 16) Anticipated formation for which well will be completed
- 17) Self explanatory
- 18) Depth to deepest freshwater, and shallowest salt water, taken from nearby wells corrected for differences in elevation
- 19) All coal seam depths
- 20) Proposed casing program and cementing refer to Code 22-4-5, 22-4-6, 22-4-7, 22-4-8, 22-4-8a Reg 9.01, 15.01, 15.02, 15.03, 15.04, 25.01, 25.02, 25.03, 25.04
- 21) Code 22-4-11(c) - In lieu of filing the lease or leases or other continuing contract or contracts, the applicant for a permit described herein may file the following:
 - (1) A brief description of the tract of land including the district and county wherein the tract is located;
 - (2) The identification of all parties to all leases or other continuing contractual agreements by which the right to extract, produce or market the oil or gas is claimed;
 - (3) The book and page number wherein each such lease or contract by which the right to extract, produce or market the oil or gas is recorded;
 - (4) A brief description of the royalty provisions of each such lease or contract.
- 22) Code 22-4-11(d) and 22-4-11(e).
- 23) Regulation 7.02 of the Department of Mines provides that the original and four copies of Form IV-2 must be filed with the Department, accompanied by (i) a plat in the form prescribed by Regulation 11, (ii) a bond in one of the forms prescribed by Regulation 12, or in lieu thereof the other security allowed by Code §22-4-2, (iii) Form IV-9, "Reclamation Plan", applicable to the reclamation required by Code §22-4-12b and Regulation 23, (iv) unless previously paid on the same well, the fee required by Code §22-4-12a, and (v) if applicable, the consent required by Code §22-4-8a from the owner of any water well or dwelling within 200 feet of the proposed well.
- 24) **The above named coal operator, coal owner(s), and coal lessee are hereby notified that any objection they wish to make or are required to make by Code §22-4-3 must be filed with the Department of Mines within fifteen (15) days after the receipt of this Application by the Department.**

The following waiver must be completed by the coal operator and by any coal owner or coal lessee who has recorded a declaration under Code 22-4-20, if the permit is to be issued within fifteen (15) days of receipt thereof.

WAIVER

The undersigned coal operator _____ / owner _____ / lessee _____ / of the coal under this well location has examined this proposed well location. If a mine map exists which covers the area of the well location, the well location has been added to the mine map. The undersigned has no objection to the work proposed to be done at this location, provided, the well operator has complied with all applicable requirements of the West Virginia Code and the governing regulations.

09/29/2023

Date: _____, 19____

By _____

Its _____



UNION DRILLING, INC. Drawer 40
Buckhannon, WV 26201

**DRILLING CONTRACTORS
PRODUCERS OF OIL AND GAS**

SUPPLEMENT TO IV-2 Oil & Gas Well Permit Application

DATE April 12, 1983

Operator's

Well No. 1 - 1721

API Well No. 47 - 041 -

OIL & GAS, COAL OWNERS:

Louise Lawson
1448 N.E. 53rd Ct.
Fort Lauderdale, FL 33334

Robert Page Lough
1904 N.W. 45th St.
Kansas City, MO 64150

Oby L. Lough, Jr.
912 E. Calvert St.
South Bend, IN 46613

Bonnie Lough
Route #3
Weston, WV 26452

Charles Lough
Route#3, Box 120-7
Kerneysville, WV 25430

Raymond Lough
Route #1
Horner, WV 26372

Virginia E. Orr
464 Main St.
Weston, WV 26452

Clyde Jewell
Route #2
Jane Lew, WV 26378

Madge Lough
464 Main St.
Weston, WV 26452

Alice Lough
Route #2, Box 109
Weston, WV 26452

Ida Maxine Lough
Route #1, Box 136-2
Buckhannon, WV 26201

Thomas Lough
Route #2, Box 107
Weston, WV 26452

Mildred Lough
3058 Liberty Street
Parkersburg, WV 26101

Nora Groves
312 S. River Avenue
Weston, WV 26452

RECEIVED
APR 13 1983

OIL & GAS DIVISION
DEPT. OF MINES

09/29/2023



IV-9
(Rev 8-81)

DATE 8-17-83
WELL NO. 1721
API NO. 47-Lewis-3384
041

State of West Virginia
Department of Mines
Oil and Gas Division

CONSTRUCTION AND RECLAMATION PLAN

COMPANY NAME Union Drilling, Inc. DESIGNATED AGENT Joseph C. Vanzant, Jr.
Address P. O. Drawer 40, Buckhannon, WV Address P. O. Drawer 40, Buckhannon, WV 26201
Telephone 472-4610 Telephone 472-4610
LANDOWNER Denzil + Alma Bailey SOIL CONS. DISTRICT West Fork S.C.D.
Revegetation to be carried out by Union Drilling, Inc. (Agent)

This plan has been reviewed by West Fork SCD. All corrections
and additions become a part of this plan: 8/30/83
(Date)
Kenneth E Knight
(SCD Agent)

| ACCESS ROAD | LOCATION |
|------------------------------------------------------|---------------------------------------|
| Structure <u>Culvert Pipe (18" Min)</u> (A) | Structure <u>Diversion Ditch</u> (1) |
| Spacing <u>At Natural Drains</u> | Material <u>Earthen</u> |
| Page Ref. Manual <u>2-7</u> | Page Ref. Manual <u>2-12</u> |
| Structure _____ (B) | Structure <u>Sediment Barrier</u> (2) |
| Spacing _____ | Material <u>Hay or Straw bales</u> |
| Page Ref. Manual _____ | Page Ref. Manual <u>2-16</u> |
| Structure <u>Roadway Ditch</u> (C) | Structure _____ (3) |
| Spacing <u>(Inside road cuts) as shown on sketch</u> | Material _____ |
| Page Ref. Manual <u>2-12</u> | Page Ref. Manual _____ |

RECEIVED
SEP 2 - 1983
OIL & GAS DIVISION
DEPT. OF MINES

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

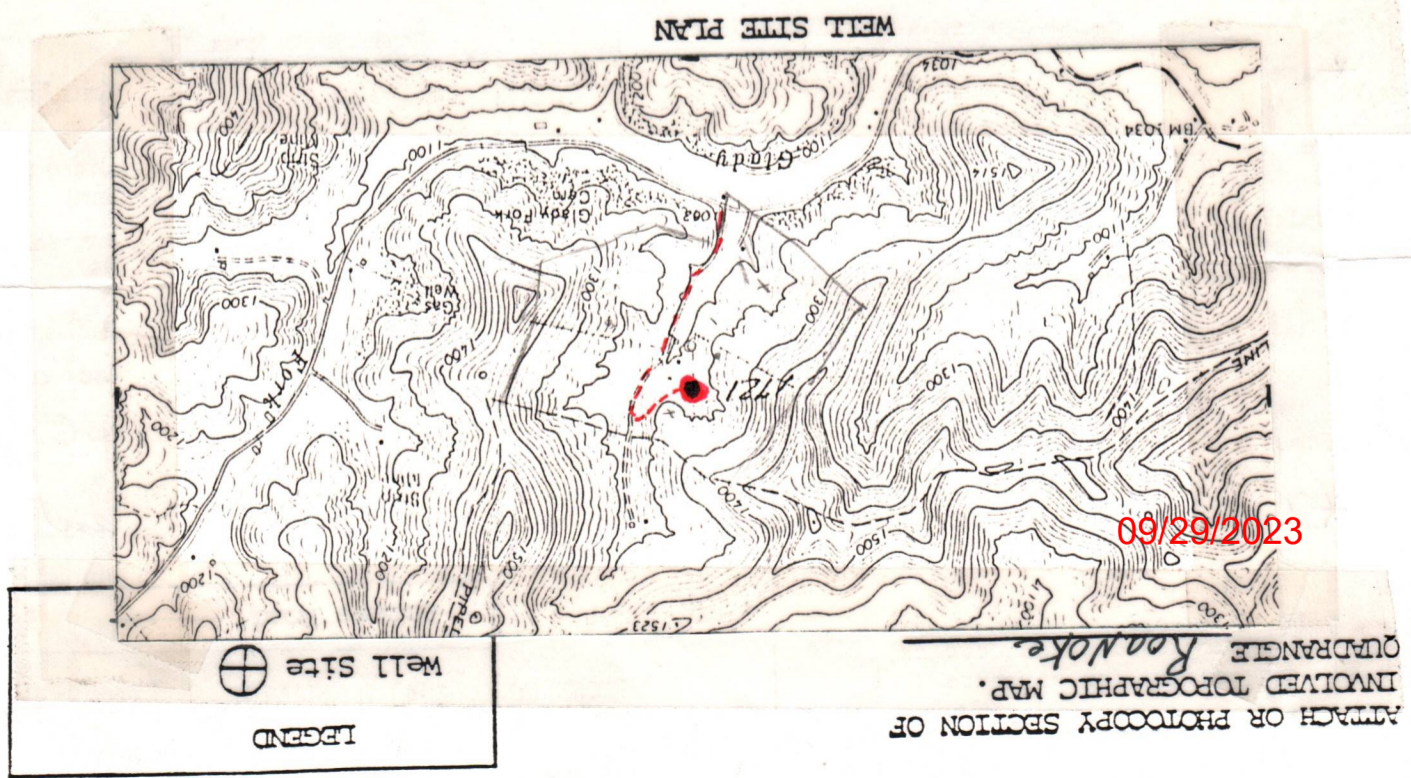
| Treatment Area I | | Treatment Area II | |
|---------------------------------|-----------------------------|---------------------------------|-----------------------------|
| *Lime <u>3</u> Tons/acre | or correct to pH <u>6.5</u> | *Lime <u>3</u> Tons/acre | or correct to pH <u>6.5</u> |
| Fertilizer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

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

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

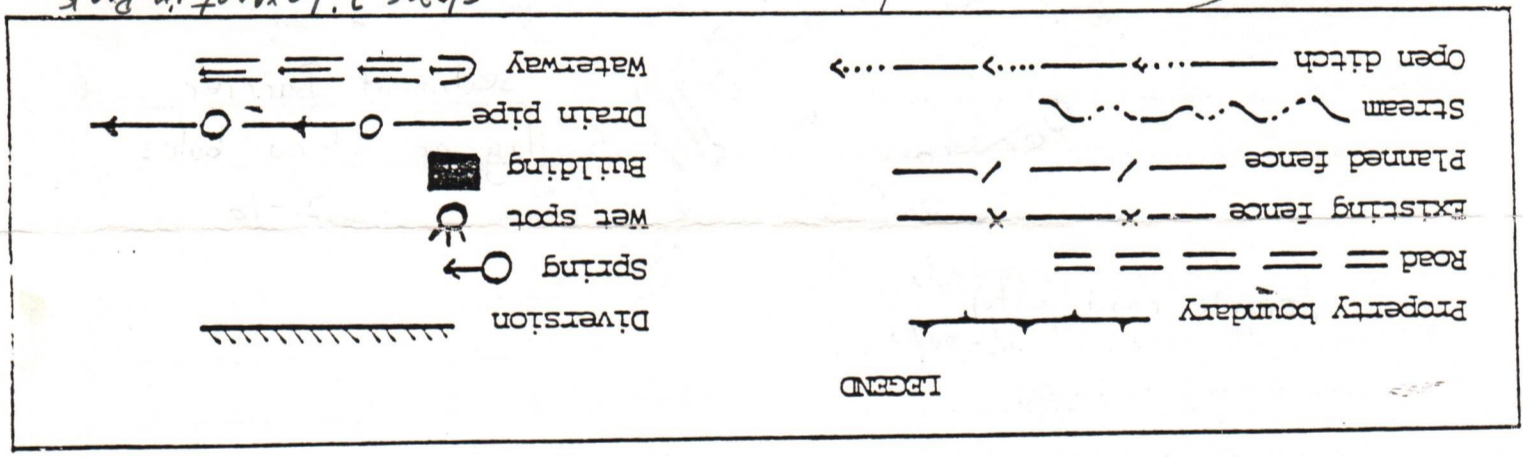
PLAN PREPARED BY Sanny O' May 09/29/2023
ADDRESS P. O. Drawer 40, Buckhannon, WV 2620
PHONE NO. (304) 472-4610

ATTACH OR PHOTOCOPY SECTION OF INVOLVED TOPOGRAPHIC MAP. QUADRANGLE *Road Noke*

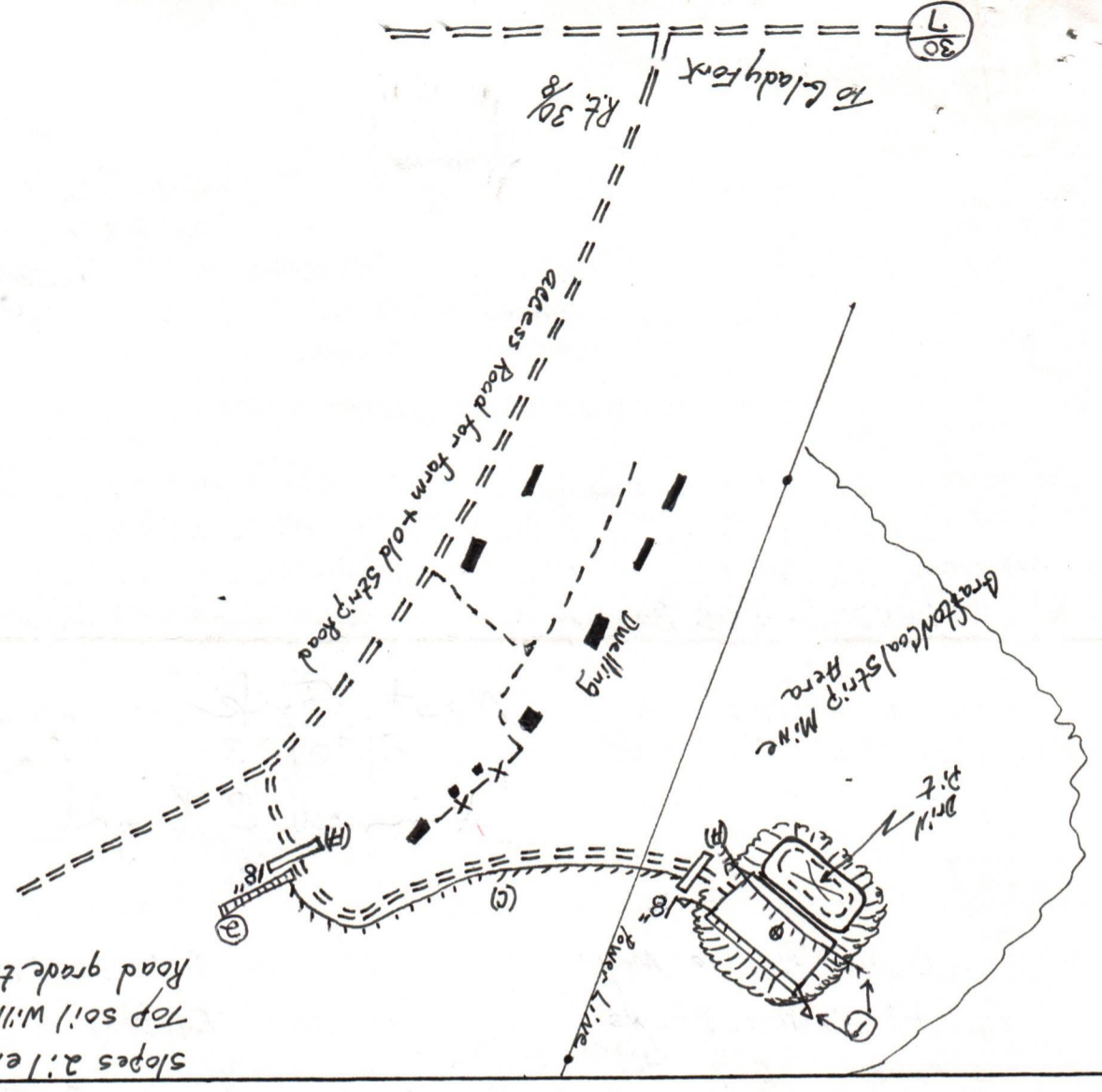


Sketch to include well location, existing access road, roads to be constructed, well site, drilling pits and necessary structures numbered or lettered to correspond with the first part of this plan. Include all natural drainage.

WELL SITE PLAN



slopes 2:1 except in Rocks
Top soil will be piled for reclamation
Road grade to loc. to 6%



1556-D

OIL & GAS LEASE

Lease No. 1556D

THIS AGREEMENT, made this 15th day of February, 1982, by and between Louise Lough Lawson and John Lawson, her husband

Lessors and parties of the first part, hereinafter called "LESSOR" and UNION DRILLING, INC., a corporation, P. O. Drawer 40, Buckhannon, West Virginia, 26201, party of the second part, hereinafter called "LESSEE",

WITNESSETH: For and in consideration of the sum of One Dollar (\$1.00), paid by the Lessee to the Lessor, the receipt of which is hereby acknowledged and of the covenants and agreements herein contained, Lessor does hereby grant, lease, demise and let unto the Lessee, for its exclusive possession and use, for the purpose of exploring, operating for, producing, removing and marketing oil and gas, or either of them, and/or their constituents and related by-products, by methods now known or hereafter discovered, all of that certain tract or parcel of land and/or oil and gas situate in

Courthouse District, Lewis County, West Virginia, bounded substantially as follows:

- On the North by Lon Sims;
- On the East by Jasper Fox, S. O. Rittenhouse;
- On the South by Elias Stalnaker;
- On the West by L. S. Armstrong;

containing 1/24 of 180 acres, more or less, and being the same land and/or oil and gas acquired by the Lessor by

This lease is made upon the following terms, rents, covenants and conditions, all of which are agreed to by the parties hereto:

1. RIGHTS OF LESSEE: Lessee shall have all rights, privileges and rights of way possessed by the Lessor which are necessary or convenient for the purposes of this lease, including, but not being limited to, the right to inject gas, air, water and other fluids into the sands and formations in said land for recovering and producing the minerals referred to; drilling, reconditioning, redrilling, completing and operating wells; and grading, constructing, maintaining and using access roads, pipelines, power lines, drips, tanks, stations, cathodic protection devices, houses for gates, meters, and regulators for use in connection with operations upon the demised premises or upon other lands owned or leased by the Lessee or its assigns.

2. TERM: This lease shall remain in force for a term of three (3) years from date hereof and as long thereafter as the leased premises or any portion thereof, or any land pooled or unitized with the whole or any part thereof, is operated in the search for or production of oil or gas or oil or gas is found in paying quantities thereon. After termination of this lease, Lessee or its assigns may continue to use roads, pipelines and other facilities, being used in connection with operations on other premises, for as long as the other operations are being conducted. Lessee shall have right to remove its equipment and property after termination of lease.

3. RENTALS AND ROYALTIES:

The Lessee covenants and agrees as follows:

(a) Production Royalty:

(i) Oil:

To pay to Lessor, as royalty for all oil and the constituents thereof, produced and saved from any well or wells drilled on the leased premises, an amount equal to one-eighth (1/8) of the price received by the Lessee from the sale of such oil in the tanks, pipelines or other facilities, to which the Lessee may connect its wells.

(ii) Gas:

To pay Lessor as royalty for all gas and the constituents thereof, including all liquid, solid or gaseous substances produced and saved from any sand or sands on the leased premises, an amount equal to one-eighth (1/8) of the price received by the Lessee from the sale of such gas and the constituents thereof at the well-head.

(b) Delay Rental Payment:

(i) To pay or tender to Lessor as delay rental at the rate of Thirty and no/100----- (\$ 30.00) annually, in advance, beginning on the date of this lease, and continue thereafter until a well capable of yielding production royalty to Lessor as provided above is drilled on the leased premises or on any unit or pool involving the leased premises. Any delay rental paid for time beyond the date that a well capable of yielding production royalty to Lessor is drilled on the leased premises shall be credited on production royalty due from the well. If any producing well subsequently ceases to produce or is determined by the Lessee unprofitable to operate for the production of oil or gas, the Lessee may continue to hold said land under the terms hereof for the remainder of the primary term of the lease by resuming payment of delay rental, with said rental to commence ninety (90) days after completion of the plugging of the well or ninety (90) days after termination of production from the same, whichever first occurs. In no event shall this lease terminate or become void for non-payment of delay rentals. However, the Lessor shall have the right of action against the Lessee for the amount of the delay rental and interest thereon.

RECEIVED
APR 13 1983

OIL & GAS DIVISION
DEPT OF MINES

1556-D Ca
09/29/2023

(c) Shut-In Royalty.

If the Lessee drills a productive well upon the demised premises and, for any reason, does not turn the same into pipelines within six (6) months after the completion of the well, or if the Lessee, for any reason, including but not being limited to, unavailability of markets, coal operations in the area of the well, or production problems, temporarily suspends production from a producing well and such suspension continues for a period of more than ninety (90) days, then the Lessee shall pay a shut-in royalty to the Lessor. The shut-in royalty, in such events, shall be equal to the delay rental herein provided for each acre of the lease held by the well and shall continue until such time as production is resumed. In no event shall this lease terminate or become void for non-payment of shut-in royalty. However, the Lessor shall have right of action against the Lessee for the amount of shut-in royalty and interest thereon. Shut-in royalty shall not be recoupable against production royalties.

(d) Free Gas:

If Lessor owns the surface overlying the gas herein leased, then Lessor hereby excepts and reserves from one well on said land producing gas an amount of gas not to exceed two hundred thousand (200,000) cubic feet per year for his own use for heat and light in one (1) dwelling house on said land at Lessor's own risk. Lessor shall be entitled to receive the free gas when and as long as Lessee may elect to produce or operate a well on the aforesaid leased premises. Lessor shall lay the necessary lines and make connections at Lessor's expense at such point on the demised premises as may be designated by the Lessee, provided said gas is used with economical appliances and is measured by meter furnished by Lessee. The regulation of such gas will be by regulator furnished by Lessor and approved by Lessee, placed at the top on the well or other designated point of connection. Gas shall be used at Lessor's own risk. Lessee shall not be liable for any interruption or insufficient supply of such gas caused by mechanical problems, breakage of lines, shut-in of wells for any purpose or for any reason whatsoever. If more than two hundred thousand (200,000) cubic feet per year is used, the excess shall be paid for by the Lessor at the same rate at which Lessee sells other gas produced from the well. In case of default in payment of gas used in excess of said two hundred thousand (200,000) cubic feet, Lessee is hereby authorized to deduct the amount thereof from any royalty or other payments that are then due or may later become due under the terms of this lease. If Lessor does not own the surface, then Lessee may furnish the free gas to the surface owner at its election, but, in such event, Lessor shall not be liable for gas usage over the free gas limit.

(e) Manner of Payment:

All payments hereunder may be made direct to the Lessor or by check payable and mailed to Louise Lough Lawson and/or John Lawson, as agent of the Lessor, who is hereby appointed agent to receive and receipt for the same and to receive notices given by the Lessee as provided herein. All checks shall be mailed to the following address:

1448 N.E. 53rd Court SS# 235-40-3191
Fort Lauderdale, FL 33334

4. DAMAGES AND RECLAMATION: Lessee shall pay to Lessor a reasonable amount for damages to fences or gates, or, in the alternative, Lessee may repair or replace the same at its expense. Lessee shall reclaim disturbed areas in a manner as required by its drilling permit and state law.

5. DRILLING NEAR DWELLING: No wells shall be drilled, without the consent of the Lessor, within a radius of two hundred (200) feet around any dwelling house existing at the time of drilling.

6. UNITIZATION: Lessee shall have the right to pool or unitize the leased acreage, or any part or parts thereof, with other tracts so as to form a drilling unit or pool not to exceed 180 acres for formations shallower than 4,000 feet and 640 acres for formations deeper than 4,000 feet. Operations upon the pooled acreage, for all purposes except royalty and free gas, shall be deemed to have occurred upon the demised premises. Lessor shall receive as royalties for minerals produced and marketed from the pooled area an amount equal to the proportion that Lessor's acreage placed in the pooled area bears to the total acreage in the pooled area.

7. SURRENDER: Lessee may at any time, upon the payment or tender of \$1.00 and all royalties and rentals then due hereunder, surrender this lease as to all or any part of the land demised.

8. OUTSTANDING INTERESTS: The rentals, royalties and payments herein specified are intended to be paid for a 100% ownership of the oil and gas. If Lessor owns less than a 100% interest in the oil and gas, the rental, royalty and payments shall be reduced to equal the interest of Lessor (i.e., if Lessor owns only a 50% interest in the oil and gas, then the rental, royalty and payments shall automatically be reduced to 50% of the amounts herein specified).

9. ASSIGNMENT: The entire or part of the interest or estate of either party hereto may be assigned. Upon such an assignment by the Lessee, the assignee shall be solely liable for all obligations of the Lessee hereunder.

10. PARTIAL EXECUTION: Should any of the parties named herein as Lessor fail to execute this lease, it shall, nevertheless, be binding upon all such parties who do execute it as Lessor.

11. OTHER PROVISIONS:

09/29/2023

12. BINDING EFFECT: This lease shall be binding upon the parties hereto, their heirs, successors and assigns:

WITNESS the following signatures:

LESSOR

12. BINDING EFFECT: This lease shall be binding upon the parties hereto, their heirs, successors and assigns:

WITNESS the following signatures:

James C. Pittman
Emasced. F. Neal Lewis

LESSOR X Louise Lough Lawson
Louise Lough Lawson
X John Lawson
John Lawson

LESSEE

UNION DRILLING, INC

BY: George B. Hefner

This instrument prepared by James C. Pittman

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

STATE OF Florida

COUNTY OF Brevard, to-wit:

The foregoing instrument was acknowledged before me this 29th day of January
1982, by Louise Lough Lawson and John Lawson, her husband

James C. Pittman
Notary Public

My commissions expires: the _____
Notary Public, Florida, State at Large
day of _____ My Commission Expires December 18, 1984
Bonded thru Jedco Insurance Agency

THE STATE OF WEST VIRGINIA,
Clerks Office, County Court, Lewis County, } ss.
February 2nd 19 82

The foregoing writing _____
together with the certificate thereto annexed was **this**
day presented in said office and admitted to record.

Attest: Mary K. Hall

STATE OF _____,

COUNTY OF _____, to-wit:

The foregoing instrument was acknowledged before me this _____ day of _____,
19____, by _____

09/29/2023

Notary Public

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

IV-35
(Rev 8-81)

RECEIVED

DEC 27 1983

OIL & GAS DIVISION
DEPT. OF MINES



State of West Virginia
Department of Mines
Oil and Gas Division

Date December 21, 1983
Operator's
Well No. 1-1721
Farm Lough Heirs #1
API No. 47 - 041 - 3384

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 / Underground Storage / Deep / Shallow x /)

LOCATION: Elevation: 1229' Watershed Glady Fork
District: Court House County Lewis Quadrangle Roanoke

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 Denzil & Elma Bailey
ADDRESS P.O. Box 341 Weston, WV 26452
MINERAL RIGHTS OWNER See Attached Sheet
ADDRESS
OIL AND GAS INSPECTOR FOR THIS WORK
Robert Bates ADDRESS 109 Minnich St. Weston, WV
PERMIT ISSUED September 14, 1983
DRILLING COMMENCED 9/26/83
DRILLING COMPLETED 10/1/83
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. | | | |
| 11 3/4 13-10" | 30' | | |
| 9 5/8 | | | |
| 8 5/8 | 1092.55 | | 354 cf |
| 7 | | | |
| 5 1/2 | | | |
| 4 1/2 | 4598.45 | | 450 SKS |
| 3 | | | |
| 2 | | | |
| Liners used | | | |

GEOLOGICAL TARGET FORMATION Alexander Depth 4500' feet
Depth of completed well 5101' feet Rotary x / Cable Tools
Water strata depth: Fresh 97', 390' feet; Salt feet
Coal seam depths: 87', 579', 713' 876' Is coal being mined in the area? x

OPEN FLOW DATA

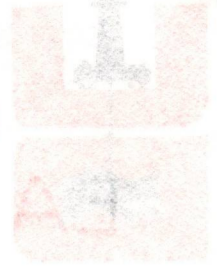
Producing formation Balltown, Benson Pay zone depth 4449' feet
Gas: Initial open flow 103 Mcf/d Oil: Initial open flow Bbl/d
Final open flow 919 Mcf/d Final open flow Bbl/d
Time of open flow between initial and final tests 2 hours
Static rock pressure 1050 psig (surface measurement) after 24 hours shut in
(If applicable due to multiple completion--)
Second producing formation Pay zone depth 09/29/2023 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)

DRILLING CONTRACTORS
PRODUCERS OF OIL AND GAS

Drillers' Office
10885 W. Washington, WV 26061

UNION DRILLING, INC.



Form 26
2/16/82

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

INSPECTOR'S PLUGGING REPORT

Permit No. _____

Well No. _____

COMPANY _____ ADDRESS _____

FARM _____ DISTRICT _____ COUNTY _____

Filling Material Used _____

| Liner | | Location | Amount | Packer | Location | | |
|-----------------------------|-----------|----------|-----------------------|--------|-------------------|------|------|
| PLUGS USED AND DEPTH PLACED | | | BRIDGES | | CASING AND TUBING | | |
| CEMENT-THICKNESS | WOOD-SIZE | LEAD | CONSTRUCTION-LOCATION | | RECOVERED | SIZE | LOST |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

Drillers' Names _____

Remarks: _____

09/29/2023

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

DISTRICT WELL INSPECTOR

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

RECEIVED

OCT - 3 1983

INSPECTOR'S WELL REPORT

Permit No. Lew-3384

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

Company Union Drilling, Inc
 Address Buckhannon W.V
 Farm Denzil Bailey
 Well No. 1-1721
 District Courthouse County Lewis
 Drilling commenced 9-26-83
 Drilling completed _____ Total depth _____
 Date shot _____ Depth of shot _____
 Initial open flow _____ /10ths Water in _____ Inch
 Open flow after tubing _____ /10ths Merc. in _____ Inch
 Volume _____ Cu. Ft.
 Rock pressure _____ lbs. _____ hrs.
 Oil _____ bbls., 1st 24 hrs.
 Fresh water 97' feet _____ feet
 Salt water _____ feet _____ feet

| CASING AND TUBING | USED IN DRILLING | LEFT IN WELL | PACKERS |
|-------------------|------------------|--------------|----------------------|
| Size | | | |
| 16 | | | Kind of Packer _____ |
| 13 | | | |
| 10 | | | Size of _____ |
| 8 1/4 | | | |
| 6 3/8 | | | Depth set _____ |
| 5 3/16 | | | |
| 3 | | | Perf. top _____ |
| 2 | | | Perf. bottom _____ |
| Liners Used | | | Perf. top _____ |
| | | | Perf. bottom _____ |

CASING CEMENTED 8 5/8" SIZE 1092 No. FT. 9-28-83 Date
 NAME OF SERVICE COMPANY Halliburton 300 sacks
 COAL WAS ENCOUNTERED AT 87-89' FEET _____ INCHES
579-584' FEET _____ INCHES 713-717 FEET _____ INCHES
 _____ FEET _____ INCHES _____ FEET _____ INCHES

Drillers' Names _____

Remarks: Union Drilling rig #5

Dusting at 3757'

9-30-83
DATE

[Signature]
DISTRICT WELL INSPECTOR
09/29/2023

Form 26
2/16/82

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS WELLS DIVISION
INSPECTOR'S PLUGGING REPORT

Permit No. _____ Well No. _____

COMPANY _____ ADDRESS _____

FARM _____ DISTRICT _____ COUNTY _____

Filling Material Used _____

| Liner | | | Location | Amount | Packer | Location | | |
|-----------------------------|-----------|------|-----------------------|--------|--------|-------------------|------|------|
| PLUGS USED AND DEPTH PLACED | | | BRIDGES | | | CASING AND TUBING | | |
| CEMENT-THICKNESS | WOOD-SIZE | LEAD | CONSTRUCTION-LOCATION | | | RECOVERED | SIZE | LOST |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

Drillers' Names _____

Remarks: _____

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

09/29/2023
DISTRICT WELL INSPECTOR

JAN 7 1986



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

FINAL INSPECTION REPORT
INSPECTORS COMPLIANCE REPORT
May 30, 1984

COMPANY Union Drilling, Inc.

PERMIT NO 041-3384

P. O. Drawer 40

FARM & WELL NO Lough Heirs #1-1721

Buckhannon, West Virginia 26201

DIST. & COUNTY Courthouse/Lewis

| 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 Steve Casey

DATE 12-31-85

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.

T. L. ...
Administrator-Oil & Gas Division

January 17, 1986
DATE

JAN 7 1988



Department of Health
Bill and Gene Thomas
1000 North 10th Street
Anchorage, Alaska 99501
Tel. 273-1111

[Handwritten signature]

[Faint, mostly illegible typed text, likely a letter or report body]

[Handwritten notes or signatures]

[Handwritten signature]

1556-C

OIL & GAS LEASE

Lease No. 1556C

THIS AGREEMENT, made this 15th day of February, 19 82, by and between Oby Lewis Lough, Jr. and JACKIE S. Lough, his wife

Lessors and parties of the first part, hereinafter called "LESSOR" and UNION DRILLING, INC., a corporation, P. O. Drawer 40, Buckhannon, West Virginia, 26201, party of the second part, hereinafter called "LESSEE",

WITNESSETH: For and in consideration of the sum of One Dollar (\$1.00), paid by the Lessee to the Lessor, the receipt of which is hereby acknowledged and of the covenants and agreements herein contained, Lessor does hereby grant, lease, demise and let unto the Lessee, for its exclusive possession and use, for the purpose of exploring, operating for, producing, removing and marketing oil and gas, or either of them, and/or their constituents and related by-products, by methods now known or hereafter discovered, all of that certain tract or parcel of land and/or oil and gas situate in

Courthouse District, Lewis County, West Virginia, bounded substantially as follows:

- On the North by Lon Sims;
- On the East by Jasper Fox, S. O. Rittenhouse;
- On the South by Elias Stalnaker;
- On the West by L. S. Armstrong;

containing 1/24 of 180 acres, more or less, and being the same land and/or oil and gas acquired by the Lessor by

This lease is made upon the following terms, rents, covenants and conditions, all of which are agreed to by the parties hereto:

1. RIGHTS OF LESSEE: Lessee shall have all rights, privileges and rights of way possessed by the Lessor which are necessary or convenient for the purposes of this lease, including, but not being limited to, the right to inject gas, air, water and other fluids into the sands and formations in said land for recovering and producing the minerals referred to; drilling, reconditioning, redrilling, completing and operating wells; and grading, constructing, maintaining and using access roads, pipelines, power lines, drips, tanks, stations, cathodic protection devices, houses for gates, meters, and regulators for use in connection with operations upon the demised premises or upon other lands owned or leased by the Lessee or its assigns.

2. TERM: This lease shall remain in force for a term of three (3) years from date hereof and as long thereafter as the leased premises or any portion thereof, or any land pooled or unitized with the whole or any part thereof, is operated in the search for or production of oil or gas or oil or gas is found in paying quantities thereon. After termination of this lease, Lessee or its assigns may continue to use roads, pipelines and other facilities, being used in connection with operations on other premises, for as long as the other operations are being conducted. Lessee shall have right to remove its equipment and property after termination of lease.

3. RENTALS AND ROYALTIES:

The Lessee covenants and agrees as follows:

(a) Production Royalty:

(i) Oil:

To pay to Lessor, as royalty for all oil and the constituents thereof, produced and saved from any well or wells drilled on the leased premises, an amount equal to one-eighth (1/8) of the price received by the Lessee from the sale of such oil in the tanks, pipelines or other facilities, to which the Lessee may connect its wells.

(ii) Gas:

To pay Lessor as royalty for all gas and the constituents thereof, including all liquid, solid or gaseous substances produced and saved from any sand or sands on the leased premises, an amount equal to one-eighth (1/8) of the price received by the Lessee from the sale of such gas and the constituents thereof at the well-head.

(b) Delay Rental Payment:

(i) To pay or tender to Lessor as delay rental at the rate of Thirty and no/100----- (\$30.00) annually, in advance, beginning on the date of this lease, and continue thereafter until a well capable of yielding production royalty to Lessor as provided above is drilled on the leased premises or on any unit or pool involving the leased premises. Any delay rental paid for time beyond the date that a well capable of yielding production royalty to Lessor is drilled on the leased premises shall be credited on production royalty due from the well. If any producing well subsequently ceases to produce or is determined by the Lessee unprofitable to operate for the production of oil or gas, the Lessee may continue to hold said land under the terms hereof for the remainder of the primary term of the lease by resuming payment of delay rental, with said rental to commence ninety (90) days after completion of the plugging of the well or ninety (90) days after termination of production from the same, whichever first occurs. In no event shall this lease terminate or become void for non-payment of delay rentals. However, the Lessor shall have the right of action against the Lessee for the amount of 09/29/2023 delay rental and interest thereon.

1556-C CR

(c) Shut-In Royalty:

If the Lessee drills a productive well upon the demised premises and, for any reason, does not turn the same into pipelines within six (6) months after the completion of the well, or if the Lessee, for any reason, including but not being limited to, unavailability of markets, coal operations in the area of the well, or production problems, temporarily suspends production from a producing well and such suspension continues for a period of more than ninety (90) days, then the Lessee shall pay a shut-in royalty to the Lessor. The shut-in royalty, in such events, shall be equal to the delay rental herein provided for each acre of the lease held by the well and shall continue until such time as production is resumed. In no event shall this lease terminate or become void for non-payment of shut-in royalty. However, the Lessor shall have right of action against the Lessee for the amount of shut-in royalty and interest thereon. Shut-in royalty shall not be recoupable against production royalties.

(d) Free Gas:

If Lessor owns the surface overlying the gas herein leased, then Lessor hereby excepts and reserves from one well on said land producing gas an amount of gas not to exceed two hundred thousand (200,000) cubic feet per year for his own use for heat and light in one (1) dwelling house on said land at Lessor's own risk. Lessor shall be entitled to receive the free gas when and as long as Lessee may elect to produce or operate a well on the aforesaid leased premises. Lessor shall lay the necessary lines and make connections at Lessor's expense at such point on the demised premises as may be designated by the Lessee, provided said gas is used with economical appliances and is measured by meter furnished by Lessee. The regulation of such gas will be by regulator furnished by Lessor and approved by Lessee, placed at the top on the well or other designated point of connection. Gas shall be used at Lessor's own risk. Lessee shall not be liable for any interruption or insufficient supply of such gas caused by mechanical problems, breakage of lines, shut-in of wells for any purpose or for any reason whatsoever. If more than two hundred thousand (200,000) cubic feet per year is used, the excess shall be paid for by the Lessor at the same rate at which Lessee sells other gas produced from the well. In case of default in payment of gas used in excess of said two hundred thousand (200,000) cubic feet, Lessee is hereby authorized to deduct the amount thereof from any royalty or other payments that are then due or may later become due under the terms of this lease. If Lessor does not own the surface, then Lessee may furnish the free gas to the surface owner at its election, but, in such event, Lessor shall not be liable for gas usage over the free gas limit.

(e) Manner of Payment:

All payments hereunder may be made direct to the Lessor or by check payable and mailed to Oby Lewis Lough, Jr., as agent of the Lessor, who is hereby appointed agent to receive and receipt for the same and to receive notices given by the Lessee as provided herein. All checks shall be mailed to the following address: 912 East Calvert Street
South Bend, Indiana, 46613
Social Security # 235-56-0161

4. DAMAGES AND RECLAMATION: Lessee shall pay to Lessor a reasonable amount for damages to fences or gates, or, in the alternative, Lessee may repair or replace the same at its expense. Lessee shall reclaim disturbed areas in a manner as required by its drilling permit and state law.

5. DRILLING NEAR DWELLING: No wells shall be drilled, without the consent of the Lessor, within a radius of two hundred (200) feet around any dwelling house existing at the time of drilling.

6. UNITIZATION: Lessee shall have the right to pool or unitize the leased acreage, or any part or parts thereof, with other tracts so as to form a drilling unit or pool not to exceed 180 acres for formations shallower than 4,000 feet and 640 acres for formations deeper than 4,000 feet. Operations upon the pooled acreage, for all purposes except royalty and free gas, shall be deemed to have occurred upon the demised premises. Lessor shall receive as royalties for minerals produced and marketed from the pooled area an amount equal to the proportion that Lessor's acreage placed in the pooled area bears to the total acreage in the pooled area.

7. SURRENDER: Lessee may at any time, upon the payment or tender of \$1.00 and all royalties and rentals then due hereunder, surrender this lease as to all or any part of the land demised.

8. OUTSTANDING INTERESTS: The rentals, royalties and payments herein specified are intended to be paid for a 100% ownership of the oil and gas. If Lessor owns less than a 100% interest in the oil and gas, the rental, royalty and payments shall be reduced to equal the interest of Lessor (i.e., if Lessor owns only a 50% interest in the oil and gas, then the rental, royalty and payments shall automatically be reduced to 50% of the amounts herein specified).

9. ASSIGNMENT: The entire or part of the interest or estate of either party hereto may be assigned. Upon such an assignment by the Lessee, the assignee shall be solely liable for all obligations of the Lessee hereunder.

10. PARTIAL EXECUTION: Should any of the parties named herein as Lessor fail to execute this lease, it shall, nevertheless, be binding upon all such parties who do execute it as Lessor.

11. OTHER PROVISIONS: Furthermore, Union Drilling, Inc. agrees to drill a minimum of one gas or oil well on said leased premises before the expiration of the primary term; provided, however, that there is adequate spacing available and that there are no producing gas or oil wells on the said leased premises. This drilling commitment shall only be applicable if and only if Union Drilling, Inc. has under lease a 100% interest in the oil and gas.

09/29/2023

12. BINDING EFFECT: This lease shall be binding upon the parties hereto, their heirs, successors and assigns:

WITNESS the following signatures:

LESSOR

x *Oby Lewis Lough, Jr.*

09/29/2023

#1556 B

OIL & GAS LEASE

Lease No. ~~1556~~ 1556-B

THIS AGREEMENT, made this 19th day of January, 1982, by and between Bonnie I. Lough (widow)

Lessors and parties of the first part, hereinafter called "LESSOR" and UNION DRILLING, INC., a corporation, P. O. Drawer 40, Buckhannon, West Virginia, 26201, party of the second part, hereinafter called "LESSEE",

WITNESSETH: For and in consideration of the sum of One Dollar (\$1.00), paid by the Lessee to the Lessor, the receipt of which is hereby acknowledged and of the covenants and agreements herein contained, Lessor does hereby grant, lease, demise and let unto the Lessee, for its exclusive possession and use, for the purpose of exploring, operating for, producing, removing and marketing oil and gas, or either of them, and/or their constituents and related by-products, by methods now known or hereafter discovered, all of that certain tract or parcel of land and/or oil and gas situate in

Court House District, Lewis County, West Virginia, bounded substantially as follows:

On the North by Len Sims;

On the East by Jasper Fox, S.C. Rittenhouse;

On the South by Elihu Stulwater;

On the West by L.S. Armstrong;

containing 1/6 of 180 acres, more or less, and being the same land and/or oil and gas acquired by the Lessor by Will from Ralph Lough, her husband

This lease is made upon the following terms, rents, covenants and conditions, all of which are agreed to by the parties hereto:

1. RIGHTS OF LESSEE: Lessee shall have all rights, privileges and rights of way possessed by the Lessor which are necessary or convenient for the purposes of this lease, including, but not being limited to, the right to inject gas, air, water and other fluids into the sands and formations in said land for recovering and producing the minerals referred to; drilling, reconditioning, redrilling, completing and operating wells; and grading, constructing, maintaining and using access roads, pipelines, power lines, drips, tanks, stations, cathodic protection devices, houses for gates, meters, and regulators for use in connection with operations upon the demised premises or upon other lands owned or leased by the Lessee or its assigns.

2. TERM: This lease shall remain in force for a term of three (3) years from date hereof and as long thereafter as the leased premises or any portion thereof, or any land pooled or unitized with the whole or any part thereof, is operated in the search for or production of oil or gas or oil or gas is found in paying quantities thereon. After termination of this lease, Lessee or its assigns may continue to use roads, pipelines and other facilities, being used in connection with operations on other premises, for as long as the other operations are being conducted. Lessee shall have right to remove its equipment and property after termination of lease.

3. RENTALS AND ROYALTIES:

The Lessee covenants and agrees as follows:

(a) Production Royalty:

(i) Oil:

To pay to Lessor, as royalty for all oil and the constituents thereof, produced and saved from any well or wells drilled on the leased premises, an amount equal to one-eighth (1/8) of the price received by the Lessee from the sale of such oil in the tanks, pipelines or other facilities, to which the Lessee may connect its wells.

(ii) Gas:

To pay Lessor as royalty for all gas and the constituents thereof, including all liquid, solid or gaseous substances produced and saved from any sand or sands on the leased premises, an amount equal to one-eighth (1/8) of the price received by the Lessee from the sale of such gas and the constituents thereof at the well-head.

(b) Delay Rental Payment:

(i) To pay or tender to Lessor as delay rental at the rate of Seven Hundred Twenty Dollars (\$720.00) annually, in advance, beginning on the date of this lease, and continue thereafter until a well capable of yielding production royalty to Lessor as provided above is drilled on the leased premises or on any unit or pool involving the leased premises. Any delay rental paid for time beyond the date that a well capable of yielding production royalty to Lessor is drilled on the leased premises shall be credited on production royalty due from the well. If any producing well subsequently ceases to produce or is determined by the Lessee unprofitable to operate for the production of oil or gas, the Lessee may continue to hold said land under the terms hereof for the remainder of the primary term of the lease by resuming payment of delay rental, with said rental to commence ninety (90) days after completion of the plugging of the well or ninety (90) days after termination of production from the same, whichever first occurs. In no event shall this lease terminate or become void for non-payment of delay rentals. However, the Lessor shall have the right of action against the Lessee for the amount of the 09/29/2023 and interest thereon.

#1556 B 00

(c) Shut-In Royalty:

If the Lessee drills a productive well upon the demised premises and, for any reason, does not turn the same into pipelines within six (6) months after the completion of the well, or if the Lessee, for any reason, including but not being limited to, unavailability of markets, coal operations in the area of the well, or production problems, temporarily suspends production from a producing well and such suspension continues for a period of more than ninety (90) days, then the Lessee shall pay a shut-in royalty to the Lessor. The shut-in royalty, in such events, shall be equal to the delay rental herein provided for each acre of the lease held by the well and shall continue until such time as production is resumed. In no event shall this lease terminate or become void for non-payment of shut-in royalty. However, the Lessor shall have right of action against the Lessee for the amount of shut-in royalty and interest thereon. Shut-in royalty shall not be recoupable against production royalties.

(d) Free Gas:

If Lessor owns the surface overlying the gas herein leased, then Lessor hereby excepts and reserves from one well on said land producing gas an amount of gas not to exceed two hundred thousand (200,000) cubic feet per year for his own use for heat and light in one (1) dwelling house on said land at Lessor's own risk. Lessor shall be entitled to receive the free gas when and as long as Lessee may elect to produce or operate a well on the aforesaid leased premises. Lessor shall lay the necessary lines and make connections at Lessor's expense at such point on the demised premises as may be designated by the Lessee, provided said gas is used with economical appliances and is measured by meter furnished by Lessee. The regulation of such gas will be by regulator furnished by Lessor and approved by Lessee, placed at the top on the well or other designated point of connection. Gas shall be used at Lessor's own risk. Lessee shall not be liable for any interruption or insufficient supply of such gas caused by mechanical problems, breakage of lines, shut-in of wells for any purpose or for any reason whatsoever. If more than two hundred thousand (200,000) cubic feet per year is used, the excess shall be paid for by the Lessor at the same rate at which Lessee sells other gas produced from the well. In case of default in payment of gas used in excess of said two hundred thousand (200,000) cubic feet, Lessee is hereby authorized to deduct the amount thereof from any royalty or other payments that are then due or may later become due under the terms of this lease. If Lessor does not own the surface, then Lessee may furnish the free gas to the surface owner at its election, but, in such event, Lessor shall not be liable for gas usage over the free gas limit.

(e) Manner of Payment:

All payments hereunder may be made direct to the Lessor or by check payable and mailed to Bonnie T. Lough, as agent of the Lessor, who is hereby appointed agent to receive and receipt for the same and to receive notices given by the Lessee as provided herein. All checks shall be mailed to the following address:

Rt 3 Box 120
Wester, W. Va 26452
55# 236-24-8689

4. DAMAGES AND RECLAMATION: Lessee shall pay to Lessor a reasonable amount for damages to fences or gates, or, in the alternative, Lessee may repair or replace the same at its expense. Lessee shall reclaim disturbed areas in a manner as required by its drilling permit and state law.

5. DRILLING NEAR DWELLING: No wells shall be drilled, without the consent of the Lessor, within a radius of two hundred (200) feet around any dwelling house existing at the time of drilling.

6. UNITIZATION: Lessee shall have the right to pool or unitize the leased acreage, or any part or parts thereof, with other tracts so as to form a drilling unit or pool not to exceed 180 acres for formations shallower than 4,000 feet and 640 acres for formations deeper than 4,000 feet. Operations upon the pooled acreage, for all purposes except royalty and free gas, shall be deemed to have occurred upon the demised premises. Lessor shall receive as royalties for minerals produced and marketed from the pooled area an amount equal to the proportion that Lessor's acreage placed in the pooled area bears to the total acreage in the pooled area.

7. SURRENDER: Lessee may at any time, upon the payment or tender of \$1.00 and all royalties and rentals then due hereunder, surrender this lease as to all or any part of the land demised.

8. OUTSTANDING INTERESTS: The rentals, royalties and payments herein specified are intended to be paid for a 100% ownership of the oil and gas. If Lessor owns less than a 100% interest in the oil and gas, the rental, royalty and payments shall be reduced to equal the interest of Lessor (i.e., if Lessor owns only a 50% interest in the oil and gas, then the rental, royalty and payments shall automatically be reduced to 50% of the amounts herein specified).

9. ASSIGNMENT: The entire or part of the interest or estate of either party hereto may be assigned. Upon such an assignment by the Lessee, the assignee shall be solely liable for all obligations of the Lessee hereunder.

10. PARTIAL EXECUTION: Should any of the parties named herein as Lessor fail to execute this lease, it shall, nevertheless, be binding upon all such parties who do execute it as Lessor.

11. OTHER PROVISIONS: *(Must be approved by Geology Department)*

Furthermore, Union Drilling, Inc. agrees to drill a minimum of one gas or oil well on said leased premises before the expiration of the primary term; provided, however, that there is adequate spacing available and that there are no producing gas or oil wells on said leased premises. This drilling commitment shall only be applicable if and only if Union Drilling, Inc. has under lease a 100% interest in the oil and gas.

09/29/2023

12. BINDING EFFECT: This lease shall be binding upon the parties hereto, their heirs, successors and assigns:

WITNESS the following signatures:

LESSOR

12. BINDING EFFECT: This lease shall be binding upon the parties hereto, their heirs, successors' and assigns:

WITNESS the following signatures:

Carolyn J. Mulvaney

LESSOR

Bonnie I. Lough X

LESSEE

UNION DRILLING, INC

BY: Walter Campbell

This instrument prepared by

Jean Ruff

STATE OF West Virginia

COUNTY OF Lewis, to-wit:

The foregoing instrument was acknowledged before me this 19th day of January 19 82, by Bonnie I. Lough

George B. Huff
Notary Public

My commissions expires: the 20th day of August, 19 91.

THE STATE OF WEST VIRGINIA,
Clerks Office, County Court, Lewis County,) ss.

January 21st 19 82

The foregoing writing together with the certificate thereto annexed was this day presented in said office and admitted to record.

Attest: Mary K. Holt

STATE OF _____
COUNTY OF _____, to-wit:

The foregoing instrument was acknowledged before me this _____ day of _____, 19 _____, by _____

Notary Public

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

09/29/2023

OIL & GAS LEASE

Lease No. 1556F

THIS AGREEMENT, made this 8+9 day of April, 1982, by and between Charles J. Lough and DEBRA L. Lough, his wife

Lessors and parties of the first part, hereinafter called "LESSOR" and UNION DRILLING, INC., a corporation, P. O. Drawer 40, Buckhannon, West Virginia, 26201, party of the second part, hereinafter called "LESSEE",

WITNESSETH: For and in consideration of the sum of One Dollar (\$1.00), paid by the Lessee to the Lessor, the receipt of which is hereby acknowledged and of the covenants and agreements herein contained, Lessor does hereby grant, lease, demise and let unto the Lessee, for its exclusive possession and use, for the purpose of exploring, operating for, producing, removing and marketing oil and gas, or either of them, and/or their constituents and related by-products, by methods now known or hereafter discovered, all of that certain tract or parcel of land and/or oil and gas situate in

Courthouse District, Lewis County, West Virginia, bounded substantially as follows:

- On the North by Lon Sims;
- On the East by Jasper Fox, S. O. Rittenhouse;
- On the South by Elias Stalnaker;
- On the West by L. S. Armstrong;

containing 1/24 of 180 acres, more or less, and being the same land and/or oil and gas acquired by the Lessor by

This lease is made upon the following terms, rents, covenants and conditions, all of which are agreed to by the parties hereto:

1. RIGHTS OF LESSEE: Lessee shall have all rights, privileges and rights of way possessed by the Lessor which are necessary or convenient for the purposes of this lease, including, but not being limited to, the right to inject gas, air, water and other fluids into the sands and formations in said land for recovering and producing the minerals referred to; drilling, reconditioning, redrilling, completing and operating wells; and grading, constructing, maintaining and using access roads, pipelines, power lines, drips, tanks, stations, cathodic protection devices, houses for gates, meters, and regulators for use in connection with operations upon the demised premises or upon other lands owned or leased by the Lessee or its assigns.

2. TERM: This lease shall remain in force for a term of three (3) years from date hereof and as long thereafter as the leased premises or any portion thereof, or any land pooled or unitized with the whole or any part thereof, is operated in the search for or production of oil or gas or oil or gas is found in paying quantities thereon. After termination of this lease, Lessee or its assigns may continue to use roads, pipelines and other facilities, being used in connection with operations on other premises, for as long as the other operations are being conducted. Lessee shall have right to remove its equipment and property after termination of lease.

3. RENTALS AND ROYALTIES:

The Lessee covenants and agrees as follows:

(a) Production Royalty:

(i) Oil:

To pay to Lessor, as royalty for all oil and the constituents thereof, produced and saved from any well or wells drilled on the leased premises, an amount equal to one-eighth (1/8) of the price received by the Lessee from the sale of such oil in the tanks, pipelines or other facilities, to which the Lessee may connect its wells.

(ii) Gas:

To pay Lessor as royalty for all gas and the constituents thereof, including all liquid, solid or gaseous substances produced and saved from any sand or sands on the leased premises, an amount equal to one-eighth (1/8) of the price received by the Lessee from the sale of such gas and the constituents thereof at the well-head.

(b) Delay Rental Payment:

(i) To pay or tender to Lessor as delay rental at the rate of Thirty and no/100----- (\$ 30.00)

annually, in advance, beginning on the date of this lease, and continue thereafter until a well capable of yielding production royalty to Lessor as provided above is drilled on the leased premises or on any unit or pool involving the leased premises. Any delay rental paid for time beyond the date that a well capable of yielding production royalty to Lessor is drilled on the leased premises shall be credited on production royalty due from the well. If any producing well subsequently ceases to produce or is determined by the Lessee unprofitable to operate for the production of oil or gas, the Lessee may continue to hold said land under the terms hereof for the remainder of the primary term of the lease by resuming payment of delay rental, with said rental to commence ninety (90) days after completion of the plugging of the well or ninety (90) days after termination of production from the same, whichever first occurs. In no event shall this lease terminate or become void for non-payment of delay rentals. However, the Lessor shall have the right of action against the Lessee for the amount of the delay rental and interest thereon.

#1556F9
09/29/2023

12. BINDING EFFECT: This lease shall be binding upon the parties hereto, their heirs, successors and assigns:

WITNESS the following signatures:

Charles J. Lough

LESSOR

x Debra L. Lough

09/29/2023

12. BINDING EFFECT: This lease shall be binding upon the parties hereto, their heirs, successors and assigns:

WITNESS the following signatures:

Archie Tomillo
Sadie Lewis

LESSOR

X Charles J. Lough
Charles J. Lough
X Debra L. Lough
Debra L. Lough

LESSEE

UNION DRILLING, INC.

BY: George B. Neff

This instrument prepared by

James A. [Signature]



STATE OF West Virginia,

COUNTY OF Jefferson, to-wit:

The foregoing instrument was acknowledged before me this seventh day of April 19 82, by Charles J. Lough and Debra L. Lough, his wife

Victoria McKenzie
Notary Public

My commissions expires: the third day of June, 19 91.

THE STATE OF WEST VIRGINIA,
Clerks Office, County Court, Lewis County, } ss.
April 12th 19 82

The foregoing writing _____ together with the certificate thereto annexed was this day presented in said office and admitted to record.

Attest: Mary K. Holt

STATE OF _____,

COUNTY OF _____, to-wit:

The foregoing instrument was acknowledged before me this _____ day of _____, 19 _____, by _____

Notary Public

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

09/29/2023

1556

OIL & GAS LEASE

Lease No. 1556

THIS AGREEMENT, made this 19th day of January, 1982, by and between Madge Lough (widow), Raymond Lough and Doris R. Lough (his wife)
Virginia Orr and John Orr (her husband), Clyde L. Jewel and Alice Jewel
(his wife).

Lessors and parties of the first part, hereinafter called "LESSOR" and UNION DRILLING, INC., a corporation, P. O. Drawer 40, Buckhannon, West Virginia, 26201, party of the second part, hereinafter called "LESSEE",

WITNESSETH: For and in consideration of the sum of One Dollar (\$1.00), paid by the Lessee to the Lessor, the receipt of which is hereby acknowledged and of the covenants and agreements herein contained, Lessor does hereby grant, lease, demise and let unto the Lessee, for its exclusive possession and use, for the purpose of exploring, operating for, producing, removing and marketing oil and gas, or either of them, and/or their constituents and related by-products, by methods now known or hereafter discovered, all of that certain tract or parcel of land and/or oil and gas situate in

Courthouse District, Lewis County, West Virginia, bounded substantially as follows:

- On the North by Don Sims;
- On the East by Jasper Fox, S.O. Rittenhouse;
- On the South by Elias Stalraker;
- On the West by L.S. Armstrong;

containing 1/3 of 180 acres, more or less, and being the same land and/or oil and gas acquired by the Lessor by Will Book L, page 189 from W.C. Lough.

This lease is made upon the following terms, rents, covenants and conditions, all of which are agreed to by the parties hereto:

1. RIGHTS OF LESSEE: Lessee shall have all rights, privileges and rights of way possessed by the Lessor which are necessary or convenient for the purposes of this lease, including, but not being limited to, the right to inject gas, air, water and other fluids into the sands and formations in said land for recovering and producing the minerals referred to; drilling, reconditioning, redrilling, completing and operating wells; and grading, constructing, maintaining and using access roads, pipelines, power lines, drips, tanks, stations, cathodic protection devices, houses for gates, meters, and regulators for use in connection with operations upon the demised premises or upon other lands owned or leased by the Lessee or its assigns.

2. TERM: This lease shall remain in force for a term of three (3) years from January 28, 1982 and as long thereafter as the leased premises or any portion thereof, or any land pooled or unitized with the whole or any part thereof, is operated in the search for or production of oil or gas or oil or gas is found in paying quantities thereon. After termination of this lease, Lessee or its assigns may continue to use roads, pipelines and other facilities, being used in connection with operations on other premises, for as long as the other operations are being conducted. Lessee shall have right to remove its equipment and property after termination of lease.

3. RENTALS AND ROYALTIES:

The Lessee covenants and agrees as follows:

(a) Production Royalty:

(i) Oil:

To pay to Lessor, as royalty for all oil and the constituents thereof, produced and saved from any well or wells drilled on the leased premises, an amount equal to one-eighth (1/8) of the price received by the Lessee from the sale of such oil in the tanks, pipelines or other facilities, to which the Lessee may connect its wells.

(ii) Gas:

To pay Lessor as royalty for all gas and the constituents thereof, including all liquid, solid or gaseous substances produced and saved from any sand or sands on the leased premises, an amount equal to one-eighth (1/8) of the price received by the Lessee from the sale of such gas and the constituents thereof at the well-head.

(b) Delay Rental Payment:

(i) To pay or tender to Lessor as delay rental at the rate of Seven Hundred Twenty Dollars (\$720.00)

annually, in advance, beginning on the date of this lease, and continue thereafter until a well capable of yielding production royalty to Lessor as provided above is drilled on the leased premises or on any unit or pool involving the leased premises. Any delay rental paid for time beyond the date that a well capable of yielding production royalty to Lessor is drilled on the leased premises shall be credited on production royalty due from the well. If any producing well subsequently ceases to produce or is determined by the Lessee unprofitable to operate for the production of oil or gas, the Lessee may continue to hold said land under the terms hereof for the remainder of the primary term of the lease by resuming payment of delay rental, with said rental to commence ninety (90) days after completion of the plugging of the well or ninety (90) days after termination of production from the same, whichever first occurs. In no event shall this lease terminate or become void for non-payment of delay rentals. However, the Lessor shall have the right of action against the Lessee for the amount of the 09/29/2023 and interest thereon.

1556 CO

(c) Shut-In Royalty:

If the Lessee drills a productive well upon the demised premises and, for any reason, does not turn the same into pipelines within six (6) months after the completion of the well, or if the Lessee, for any reason, including but not being limited to, unavailability of markets, coal operations in the area of the well, or production problems, temporarily suspends production from a producing well and such suspension continues for a period of more than ninety (90) days, then the Lessee shall pay a shut-in royalty to the Lessor. The shut-in royalty, in such events, shall be equal to the delay rental herein provided for each acre of the lease held by the well and shall continue until such time as production is resumed. In no event shall this lease terminate or become void for non-payment of shut-in royalty. However, the Lessor shall have right of action against the Lessee for the amount of shut-in royalty and interest thereon. Shut-in royalty shall not be recoupable against production royalties.

(d) Free Gas:

If Lessor owns the surface overlying the gas herein leased, then Lessor hereby excepts and reserves from one well on said land producing gas an amount of gas not to exceed two hundred thousand (200,000) cubic feet per year for his own use for heat and light in one (1) dwelling house on said land at Lessor's own risk. Lessor shall be entitled to receive the free gas when and as long as Lessee may elect to produce or operate a well on the aforesaid leased premises. Lessor shall lay the necessary lines and make connections at Lessor's expense at such point on the demised premises as may be designated by the Lessee, provided said gas is used with economical appliances and is measured by meter furnished by Lessee. The regulation of such gas will be by regulator furnished by Lessor and approved by Lessee, placed at the top on the well or other designated point of connection. Gas shall be used at Lessor's own risk. Lessee shall not be liable for any interruption or insufficient supply of such gas caused by mechanical problems, breakage of lines, shut-in of wells for any purpose or for any reason whatsoever. If more than two hundred thousand (200,000) cubic feet per year is used, the excess shall be paid for by the Lessor at the same rate at which Lessee sells other gas produced from the well. In case of default in payment of gas used in excess of said two hundred thousand (200,000) cubic feet, Lessee is hereby authorized to deduct the amount thereof from any royalty or other payments that are then due or may later become due under the terms of this lease. If Lessor does not own the surface, then Lessee may furnish the free gas to the surface owner at its election, but, in such event, Lessor shall not be liable for gas useage over the free gas limit.

(e) Manner of Payment:

All payments hereunder may be made direct to the Lessor or by check payable and mailed to all of the under signed, as agent of the Lessor, who is hereby appointed agent to receive and receipt for the same and to receive notices given by the Lessee as provided herein. All checks shall be mailed to the following address:

4. DAMAGES AND RECLAMATION: Lessee shall pay to Lessor a reasonable amount for damages to fences or gates, or, in the alternative, Lessee may repair or replace the same at its expense. Lessee shall reclaim disturbed areas in a manner as required by its drilling permit and state law.

5. DRILLING NEAR DWELLING: No wells shall be drilled, without the consent of the Lessor, within a radius of two hundred (200) feet around any dwelling house existing at the time of drilling.

6. UNITIZATION: Lessee shall have the right to pool or unitize the leased acreage, or any part or parts thereof, with other tracts so as to form a drilling unit or pool not to exceed 180 acres for formations shallower than 4,000 feet and 640 acres for formations deeper than 4,000 feet. Operations upon the pooled acreage, for all purposes except royalty and free gas, shall be deemed to have occurred upon the demised premises. Lessor shall receive as royalties for minerals produced and marketed from the pooled area an amount equal to the proportion that Lessor's acreage placed in the pooled area bears to the total acreage in the pooled area.

7. SURRENDER: Lessee may at any time, upon the payment or tender of \$1.00 and all royalties and rentals then due hereunder, surrender this lease as to all or any part of the land demised.

8. OUTSTANDING INTERESTS: The rentals, royalties and payments herein specified are intended to be paid for a 100% ownership of the oil and gas. If Lessor owns less than a 100% interest in the oil and gas, the rental, royalty and payments shall be reduced to equal the interest of Lessor (i.e., if Lessor owns only a 50% interest in the oil and gas, then the rental, royalty and payments shall automatically be reduced to 50% of the amounts herein specified).

9. ASSIGNMENT: The entire or part of the interest or estate of either party hereto may be assigned. Upon such an assignment by the Lessee, the assignee shall be solely liable for all obligations of the Lessee hereunder.

10. PARTIAL EXECUTION: Should any of the parties named herein as Lessor fail to execute this lease, it shall, nevertheless, be binding upon all such parties who do execute it as Lessor.

11. OTHER PROVISIONS: *(Must be approved by Geology Department)*

Further more, Union Drilling, Inc. agrees to drill a minimum of one gas or oil well on said leased premises before the expiration of the primary term; provided, however, that there is adequate spacing available and that there are no producing gas or oil wells on said leased premises. This drilling commitment shall only be applicable if and only if Union Drilling, Inc. has under lease a 100% interest in the oil and gas.

09/29/2023

12. BINDING EFFECT: This lease shall be binding upon the parties hereto, their heirs, successors and assigns:

WITNESS the following signatures:

[Signature]

LESSOR

Madge Lough

12. BINDING EFFECT: This lease shall be binding upon the parties hereto, their heirs, successors and assigns:
WITNESS the following signatures:

Virginia E. Orr
John W. Orr

LESSOR

Madge Lough x
Clyde L. Jewell
Alice Jewell
Robert W. Lough
Alvis Lough

LESSEE

UNION DRILLING, INC.

BY: Michael H. Rowland

This instrument prepared by

James Kelly, III

STATE OF West Virginia,

COUNTY OF Lewis, to-wit:

The foregoing instrument was acknowledged before me this 19th day of January
19 82, by Madge Lough

George B. Hill
Notary Public

My commissions expires: the 20th
day of August, 19 91.

STATE OF West Virginia,

COUNTY OF Lewis, to-wit:

The foregoing instrument was acknowledged before me this 14th day of January
19 82, by Clyde L. Jewell and Alice Jewell

George B. Hill
Notary Public

My commission expires: the 20th
day of August, 19 91.

09/29/2023

STATE OF West Virginia,
COUNTY OF Lewis, to-wit

The foregoing instrument was acknowledged before me this 19th day of January,
19 82, by John W. Orr and Virginia E. Orr

Clara B. Hoffman
Notary Public

My commission expires: the 20th
day of August, 19 91.

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

The foregoing instrument was acknowledged before me this 19th day of January,
19 82, by Raymond V. Leigh and Doris Leigh

Clara B. Hoffman
Notary Public

My commission expires: the 20th
day of August, 19 91.

THE STATE OF WEST VIRGINIA,
Clerks Office, County Court, Lewis County, W. Va.

January 21st 19 82

The foregoing writing _____
together with the certificate thereto annexed was this
day presented in said office and admitted to record.

Attest:
Mary K. Holt

This agreement prepared by Robert J. Wallace, Attorney at Law, Buckhannon, WV, and completed by _____
of Union Drilling, Inc., P. O. Drawer 40, Buckhannon, WV 26201. To be returned after recording to last named party.

EXAMINED
LEWIS COUNTY, W. VA.

RECORDED IN DEED BOOK
NO. 401 PAGE 177

| | |
|--------------------------|-----------|
| No..... | |
| Oil and Gas Lease | |
| FROM | |
| | |
| TO | |
| | |
| Date..... | 19..... |
| Number of Acres..... | |
| LOCATION | |
| District..... | |
| County..... | |
| Received for Record..... | 19..... |
| Recorded..... | 19..... |
| In Book..... | Page..... |
| | |
| | |

INDEXED

09/29/2023

OIL & GAS LEASE

Lease No. 1556

THIS AGREEMENT, made this 15th day of February, 1982, by and between Thomas F. Lough and Virginia M. Lough his wife / Alice R. Lough widow, Frank Lough and Maxine Lough his wife.

Lessors and parties of the first part, hereinafter called "LESSOR" and UNION DRILLING, INC., a corporation, P. O. Drawer 40, Buckhannon, West Virginia, 26201, party of the second part, hereinafter called "LESSEE",

WITNESSETH: For and in consideration of the sum of One Dollar (\$1.00), paid by the Lessee to the Lessor, the receipt of which is hereby acknowledged and of the covenants and agreements herein contained, Lessor does hereby grant, lease, demise and let unto the Lessee, for its exclusive possession and use, for the purpose of exploring, operating for, producing, removing and marketing oil and gas, or either of them, and/or their constituents and related by-products, by methods now known or hereafter discovered, all of that certain tract or parcel of land and/or oil and gas situate in

Courthouse District, Lewis County, West Virginia, bounded substantially as follows:

On the North by Lon Sims;

On the East by Jasper Fox, S. O. Rittenhouse;

On the South by Elias Stalnaker;

On the West by L. S. Armstrong;

containing 1/3 of 180 acres, more or less, and being the same land and/or oil and gas acquired by the Lessor by their father, George Lough

This lease is made upon the following terms, rents, covenants and conditions, all of which are agreed to by the parties hereto:

1. RIGHTS OF LESSEE: Lessee shall have all rights, privileges and rights of way possessed by the Lessor which are necessary or convenient for the purposes of this lease, including, but not being limited to, the right to inject gas, air, water and other fluids into the sands and formations in said land for recovering and producing the minerals referred to; drilling, reconditioning, redrilling, completing and operating wells; and grading, constructing, maintaining and using access roads, pipelines, power lines, drips, tanks, stations, cathodic protection devices, houses for gates, meters, and regulators for use in connection with operations upon the demised premises or upon other lands owned or leased by the Lessee or its assigns.

2. TERM: This lease shall remain in force for a term of Three (3) years from January 28, 1982 ~~DATE HEREON~~ and as long thereafter as the leased premises or any portion thereof, or any land pooled or unitized with the whole or any part thereof, is operated in the search for or production of oil or gas or oil or gas is found in paying quantities thereon. After termination of this lease, Lessee or its assigns may continue to use roads, pipelines and other facilities, being used in connection with operations on other premises, for as long as the other operations are being conducted. Lessee shall have right to remove its equipment and property after termination of lease.

3. RENTALS AND ROYALTIES:

The Lessee covenants and agrees as follows:

(a) Production Royalty:

(i) Oil:

To pay to Lessor, as royalty for all oil and the constituents thereof, produced and saved from any well or wells drilled on the leased premises, an amount equal to one-eighth (1/8) of the price received by the Lessee from the sale of such oil in the tanks, pipelines or other facilities, to which the Lessee may connect its wells.

(ii) Gas:

To pay Lessor as royalty for all gas and the constituents thereof, including all liquid, solid or gaseous substances produced and saved from any sand or sands on the leased premises, an amount equal to one-eighth (1/8) of the price received by the Lessee from the sale of such gas and the constituents thereof at the well-head.

(b) Delay Rental Payment:

(i) To pay or tender to Lessor as delay rental at the rate of Two Hundred Forty Dollars--- (\$ 240.00) annually, in advance, beginning on the date of this lease, and continue thereafter until a well capable of yielding production royalty to Lessor as provided above is drilled on the leased premises or on any unit or pool involving the leased premises. Any delay rental paid for time beyond the date that a well capable of yielding production royalty to Lessor is drilled on the leased premises shall be credited on production royalty due from the well. If any producing well subsequently ceases to produce or is determined by the Lessee unprofitable to operate for the production of oil or gas, the Lessee may continue to hold said land under the terms hereof for the remainder of the primary term of the lease by resuming payment of delay rental, with said rental to commence ninety (90) days after completion of the plugging of the well or ninety (90) days after termination of production from the same, whichever first occurs. In no event shall this lease terminate or become void for non-payment of delay rentals. However, the Lessor shall have the right of action against the Lessee for the amount of the delay rental and interest thereon.

09/29/2023

1556H

(c) Shut-In Royalty:

If the Lessee drills a productive well upon the demised premises and, for any reason, does not turn the same into pipelines within six (6) months after the completion of the well, or if the Lessee, for any reason, including but not being limited to, unavailability of markets, coal operations in the area of the well, or production problems, temporarily suspends production from a producing well and such suspension continues for a period of more than ninety (90) days, then the Lessee shall pay a shut-in royalty to the Lessor. The shut-in royalty, in such events, shall be equal to the delay rental herein provided for each acre of the lease held by the well and shall continue until such time as production is resumed. In no event shall this lease terminate or become void for non-payment of shut-in royalty. However, the Lessor shall have right of action against the Lessee for the amount of shut-in royalty and interest thereon. Shut-in royalty shall not be recoupable against production royalties.

(d) Free Gas:

If Lessor owns the surface overlying the gas herein leased, then Lessor hereby excepts and reserves from one well on said land producing gas an amount of gas not to exceed two hundred thousand (200,000) cubic feet per year for his own use for heat and light in one (1) dwelling house on said land at Lessor's own risk. Lessor shall be entitled to receive the free gas when and as long as Lessee may elect to produce or operate a well on the aforesaid leased premises. Lessor shall lay the necessary lines and make connections at Lessor's expense at such point on the demised premises as may be designated by the Lessee, provided said gas is used with economical appliances and is measured by meter furnished by Lessee. The regulation of such gas will be by regulator furnished by Lessor and approved by Lessee, placed at the top on the well or other designated point of connection. Gas shall be used at Lessor's own risk. Lessee shall not be liable for any interruption or insufficient supply of such gas caused by mechanical problems, breakage of lines, shut-in of wells for any purpose or for any reason whatsoever. If more than two hundred thousand (200,000) cubic feet per year is used, the excess shall be paid for by the Lessor at the same rate at which Lessee sells other gas produced from the well. In case of default in payment of gas used in excess of said two hundred thousand (200,000) cubic feet, Lessee is hereby authorized to deduct the amount thereof from any royalty or other payments that are then due or may later become due under the terms of this lease. If Lessor does not own the surface, then Lessee may furnish the free gas to the surface owner at its election, but, in such event, Lessor shall not be liable for gas useage over the free gas limit.

(e) Manner of Payment:

All payments hereunder may be made direct to the Lessor or by check payable and mailed to All of the under signed, as agent of the Lessor, who is hereby appointed agent to receive and receipt for the same and to receive notices given by the Lessee as provided herein. All checks shall be mailed to the following address: Thomas Lough and or Virginia Lough . Frank Lough and or Maxine Lough
Pay Yearly \$ 80.00 Rt #2, Bxl07, Weston, W, Va, 26452 Rt #1, Bx 136-2, Buckhannon, W. Va.
to the following Alice Lough, widow, 26201
persons Rt #2, Bx 109, Weston, W. Va. 26452

4. DAMAGES AND RECLAMATION: Lessee shall pay to Lessor a reasonable amount for damages to fences or gates, or, in the alternative, Lessee may repair or replace the same at its expense. Lessee shall reclaim disturbed areas in a manner as required by its drilling permit and state law.

5. DRILLING NEAR DWELLING: No wells shall be drilled, without the consent of the Lessor, within a radius of two hundred (200) feet around any dwelling house existing at the time of drilling.

6. UNITIZATION: Lessee shall have the right to pool or unitize the leased acreage, or any part or parts thereof, with other tracts so as to form a drilling unit or pool not to exceed 180 acres for formations shallower than 4,000 feet and 640 acres for formations deeper than 4,000 feet. Operations upon the pooled acreage, for all purposes except royalty and free gas, shall be deemed to have occurred upon the demised premises. Lessor shall receive as royalties for minerals produced and marketed from the pooled area an amount equal to the proportion that Lessor's acreage placed in the pooled area bears to the total acreage in the pooled area.

7. SURRENDER: Lessee may at any time, upon the payment or tender of \$1.00 and all royalties and rentals then due hereunder, surrender this lease as to all or any part of the land demised.

8. OUTSTANDING INTERESTS: The rentals, royalties and payments herein specified are intended to be paid for a 100% ownership of the oil and gas. If Lessor owns less than a 100% interest in the oil and gas, the rental, royalty and payments shall be reduced to equal the interest of Lessor (i.e., if Lessor owns only a 50% interest in the oil and gas, then the rental, royalty and payments shall automatically be reduced to 50% of the amounts herein specified).

9. ASSIGNMENT: The entire or part of the interest or estate of either party hereto may be assigned. Upon such an assignment by the Lessee, the assignee shall be solely liable for all obligations of the Lessee hereunder.

10. PARTIAL EXECUTION: Should any of the parties named herein as Lessor fail to execute this lease, it shall, nevertheless, be binding upon all such parties who do execute it as Lessor.

11. OTHER PROVISIONS:

DRILLING COMMITMENT - (Must be approved by Geology Department)

Furthermore, Union Drilling, Inc. agrees to drill a minimum of one gas or oil well on said leased premises before the expiration of the primary term; provided, however, that there is adequate spacing available and that there are no producing gas or oil wells on said leased premises. This drilling commitment shall only be applicable if and only if Union Drilling, Inc. has under lease a 100% interest in the oil and gas.

09/29/2023

12. BINDING EFFECT: This lease shall be binding upon the parties hereto, their heirs, successors and assigns:

WITNESS the following signatures:

Thomas Lough. 233-3-0- 5313

LESSOR

Thomas F Lough

12. BINDING EFFECT: This lease shall be binding upon the parties hereto, their heirs, successors and assigns:

WITNESS the following signatures:

Thomas Lough. 233-3-0- 5313

LESSOR

Thomas F. Lough ✓

Frank Lough. 232-24-0367

Virginia M. Lough x

Alice Lough, 236-68-1460

Alice R. Lough ✓

Frank Lough

Maxine Lough

LESSEE

UNION DRILLING INC
BY: Michael Campbell

This instrument prepared by James Bellitt

STATE OF West Virginia,

COUNTY OF Lewis, to-wit:

The foregoing instrument was acknowledged before me this 4th day of February 19 81, by Thomas F. Lough, Virginia M. Lough, and Alice R. Lough.

George B. Kelly
Notary Public

My commissions expires: the 20th day of August, 19 91.

STATE OF West Virginia,

COUNTY OF Lewis, to-wit:

The foregoing instrument was acknowledged before me this 15th day of February 19 82, by Frank Lough and Maxine Lough.

George B. Kelly
Notary Public

My commission expires: the 20th day of August, 19 91.

09/29/2023

STATE OF _____,

COUNTY OF _____, to-wit

The foregoing instrument was acknowledged before me this _____ day of _____,

19_____, by _____.

Notary Public _____

My commission expires: the _____

day of _____, 19_____.

STATE OF _____,

COUNTY OF _____, to-wit:

The foregoing instrument was acknowledged before me this _____ day of _____,

19_____, by _____.

Notary Public _____

My commission expires: the _____

day of _____, 19_____.

THE STATE OF WEST VIRGINIA,
Clerks Office, County Court, Lewis County, W. Va.

February 17th 1982

The foregoing writing _____
together with the certificate thereto annexed was this
day presented in said office and admitted to record.

Attest: Mary K. Holt

This agreement prepared by Robert J. Wallace, Attorney at Law, Buckhannon, WV, and completed by ~~George B. Heflin~~
of Union Drilling, Inc., P. O. Drawer 40, Buckhannon, WV 26201. To be returned after recording to last named party.

No.

Oil and Gas Lease

FROM

TO

Date....., 19.....

Number of Acres.....

LOCATION

District.....

County.....

Received for Record....., 19.....

Recorded....., 19.....

in Book..... Page.....

RECORDED IN DEED BOOK

NO. 402 PAGE 32

LEWIS COUNTY, W. VA.

09/29/2023

FEB 17 1982

#1556-2
Sent to Record today 4/12 #1556-2
OIL & GAS LEASE

THIS AGREEMENT, made this 8th day of February, 1982, by and between MILDRED LOUGH, WIDOW Lease No. 1556G

Lessors and parties of the first part, hereinafter called "LESSOR" and UNION DRILLING, INC., a corporation, P. O. Drawer 40, Buckhannon, West Virginia, 26201, party of the second part, hereinafter called "LESSEE",

WITNESSETH: For and in consideration of the sum of One Dollar (\$1.00), paid by the Lessee to the Lessor, the receipt of which is hereby acknowledged and of the covenants and agreements herein contained, Lessor does hereby grant, lease, demise and let unto the Lessee, for its exclusive possession and use, for the purpose of exploring, operating for, producing, removing and marketing oil and gas, or either of them, and/or their constituents and related by-products, by methods now known or hereafter discovered, all of that certain tract or parcel of land and/or oil and gas situate in Courthouse District, Lewis County, West Virginia, bounded substantially as follows:

- On the North by Lon Sims;
- On the East by Jasper Fox, S. O. Rittenhouse;
- On the South by Elias Stalnaker;
- On the West by L. S. Armstrong;

containing 1/15 of 180 acres, more or less, and being the same land and/or oil and gas acquired by the Lessor by her husband, Clyde Lough

This lease is made upon the following terms, rents, covenants and conditions, all of which are agreed to by the parties hereto:

1. RIGHTS OF LESSEE: Lessee shall have all rights, privileges and rights of way possessed by the Lessor which are necessary or convenient for the purposes of this lease, including, but not being limited to, the right to inject gas, air, water and other fluids into the sands and formations in said land for recovering and producing the minerals referred to; drilling, reconditioning, re-drilling, completing and operating wells; and grading, constructing, maintaining and using access roads, pipelines, power lines, drips, tanks, stations, cathodic protection devices, houses for gates, meters, and regulators for use in connection with operations upon the demised premises or upon other lands owned or leased by the Lessee or its assigns.

2. TERM: This lease shall remain in force for a term of three (3) years from date hereof and as long thereafter as the leased premises or any portion thereof, or any land pooled or unitized with the whole or any part thereof, is operated in the search for or production of oil or gas or oil or gas is found in paying quantities thereon. After termination of this lease, Lessee or its assigns may continue to use roads, pipelines and other facilities, being used in connection with operations on other premises, for as long as the other operations are being conducted. Lessee shall have right to remove its equipment and property after termination of lease.

3. RENTALS AND ROYALTIES:

The Lessee covenants and agrees as follows:

(a) Production Royalty:

(i) Oil:

To pay to Lessor, as royalty for all oil and the constituents thereof, produced and saved from any well or wells drilled on the leased premises, an amount equal to one-eighth (1/8) of the price received by the Lessee from the sale of such oil in the tanks, pipelines or other facilities, to which the Lessee may connect its wells.

(ii) Gas:

To pay Lessor as royalty for all gas and the constituents thereof, including all liquid, solid or gaseous substances produced and saved from any sand or sands on the leased premises, an amount equal to one-eighth (1/8) of the price received by the Lessee from the sale of such gas and the constituents thereof at the well-head.

(b) Delay Rental Payment:

(i) To pay or tender to Lessor as delay rental at the rate of Forty Eight and no/100----- (\$ 48.00) annually, in advance, beginning on the date of this lease, and continue thereafter until a well capable of yielding production royalty to Lessor as provided above is drilled on the leased premises or on any unit or pool involving the leased premises.

Delay rental paid for time beyond the date that a well capable of yielding production royalty to Lessor is drilled on the leased premises shall be credited on production royalty due from the well. If any producing well subsequently ceases to produce or is determined by the Lessee unprofitable to operate for the production of oil or gas, the Lessee may continue to hold said land under the terms hereof for the remainder of the primary term of the lease by resuming payment of delay rental, with said rental to commence ninety (90) days after completion of the plugging of the well or ninety (90) days after termination of production from the same, whichever first occurs. In no event shall this lease terminate or become void for non-payment of delay rentals. However, the Lessor shall have the right of action against the Lessee for the amount of the delay rental and interest thereon.

09/29/2023

#1556-8 SF

(c) Shut-In Royalty:

If the Lessee drills a productive well upon the demised premises and, for any reason, does not turn the same into pipelines within six (6) months after the completion of the well, or if the Lessee, for any reason, including but not being limited to, unavailability of markets, coal operations in the area of the well, or production problems, temporarily suspends production from a producing well and such suspension continues for a period of more than ninety (90) days, then the Lessee shall pay a shut-in royalty to the Lessor. The shut-in royalty, in such events, shall be equal to the delay rental herein provided for each acre of the lease held by the well and shall continue until such time as production is resumed. In no event shall this lease terminate or become void for non-payment of shut-in royalty. However, the Lessor shall have right of action against the Lessee for the amount of shut-in royalty and interest thereon. Shut-in royalty shall not be recoupable against production royalties.

(d) Free Gas:

If Lessor owns the surface overlying the gas herein leased, then Lessor hereby excepts and reserves from one well on said land producing gas an amount of gas not to exceed two hundred thousand (200,000) cubic feet per year for his own use for heat and light in one (1) dwelling house on said land at Lessor's own risk. Lessor shall be entitled to receive the free gas when and as long as Lessee may elect to produce or operate a well on the aforesaid leased premises. Lessor shall lay the necessary lines and make connections at Lessor's expense at such point on the demised premises as may be designated by the Lessee, provided said gas is used with economical appliances and is measured by meter furnished by Lessee. The regulation of such gas will be by regulator furnished by Lessor and approved by Lessee, placed at the top on the well or other designated point of connection. Gas shall be used at Lessor's own risk. Lessee shall not be liable for any interruption or insufficient supply of such gas caused by mechanical problems, breakage of lines, shut-in of wells for any purpose or for any reason whatsoever. If more than two hundred thousand (200,000) cubic feet per year is used, the excess shall be paid for by the Lessor at the same rate at which Lessee sells other gas produced from the well. In case of default in payment of gas used in excess of said two hundred thousand (200,000) cubic feet, Lessee is hereby authorized to deduct the amount thereof from any royalty or other payments that are then due or may later become due under the terms of this lease. If Lessor does not own the surface, then Lessee may furnish the free gas to the surface owner at its election, but, in such event, Lessor shall not be liable for gas usage over the free gas limit.

(e) Manner of Payment:

All payments hereunder may be made direct to the Lessor or by check payable and mailed to Mildred Lough, as agent of the Lessor, who is hereby appointed agent to receive and receipt for the same and to receive notices given by the Lessee as provided herein. All checks shall be mailed to the following address:

3058 Liberty Street
Parkersburg, WV 26101
SS#

4. DAMAGES AND RECLAMATION: Lessee shall pay to Lessor a reasonable amount for damages to fences or gates, or, in the alternative, Lessee may repair or replace the same at its expense. Lessee shall reclaim disturbed areas in a manner as required by its drilling permit and state law.

5. DRILLING NEAR DWELLING: No wells shall be drilled, without the consent of the Lessor, within a radius of two hundred (200) feet around any dwelling house existing at the time of drilling.

6. UNITIZATION: Lessee shall have the right to pool or unitize the leased acreage, or any part or parts thereof, with other tracts so as to form a drilling unit or pool not to exceed 180 acres for formations shallower than 4,000 feet and 640 acres for formations deeper than 4,000 feet. Operations upon the pooled acreage, for all purposes except royalty and free gas, shall be deemed to have occurred upon the demised premises. Lessor shall receive as royalties for minerals produced and marketed from the pooled area an amount equal to the proportion that Lessor's acreage placed in the pooled area bears to the total acreage in the pooled area.

7. SURRENDER: Lessee may at any time, upon the payment or tender of \$1.00 and all royalties and rentals then due hereunder, surrender this lease as to all or any part of the land demised.

8. OUTSTANDING INTERESTS: The rentals, royalties and payments herein specified are intended to be paid for a 100% ownership of the oil and gas. If Lessor owns less than a 100% interest in the oil and gas, the rental, royalty and payments shall be reduced to equal the interest of Lessor (i.e., if Lessor owns only a 50% interest in the oil and gas, then the rental, royalty and payments shall automatically be reduced to 50% of the amounts herein specified).

9. ASSIGNMENT: The entire or part of the interest or estate of either party hereto may be assigned. Upon such an assignment by the Lessee, the assignee shall be solely liable for all obligations of the Lessee hereunder.

10. PARTIAL EXECUTION: Should any of the parties named herein as Lessor fail to execute this lease, it shall, nevertheless, be binding upon all such parties who do execute it as Lessor.

11. OTHER PROVISIONS: Furthermore, Union Drilling, Inc. agrees to drill a minimum of one gas or oil well on said leased premises before the expiration of the primary term; provided, however, that there is adequate spacing available and that there are no producing gas or oil wells on said leased premises. This drilling commitment shall only be applicable if and only if Union Drilling, Inc. has under lease a 100% interest in the oil and gas.

09/29/2023

12. BINDING EFFECT: This lease shall be binding upon the parties hereto, their heirs, successors and assigns:
WITNESS the following signatures:

LESSOR

X Mildred Lough
Mildred Lough

LESSEE

UNION DRILLING, INC.

BY: George B. Keph

STATE OF West Virginia,

COUNTY OF Putnam, to-wit:

The foregoing instrument was acknowledged before me this 6th day of February
19 82, by Mildred Lough

Paul J. Harman
Notary Public

My commissions expires: the 18th
day of January, 19 85.

STATE OF _____,

COUNTY OF _____, to-wit:

The foregoing instrument was acknowledged before me this _____ day of _____,
19____, by _____

Notary Public

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

09/29/2023

OIL & GAS LEASE

Lease No. 1556-F

THIS AGREEMENT, made this 13th day of April, 1982, by and between Nora E. Groves, widow

Lessors and parties of the first part, hereinafter called "LESSOR" and UNION DRILLING, INC., a corporation, P. O. Drawer 40, Buckhannon, West Virginia, 26201, party of the second part, hereinafter called "LESSEE",

WITNESSETH: For and in consideration of the sum of One Dollar (\$1.00), paid by the Lessee to the Lessor, the receipt of which is hereby acknowledged and of the covenants and agreements herein contained, Lessor does hereby grant, lease, demise and let unto the Lessee, for its exclusive possession and use, for the purpose of exploring, operating for, producing, removing and marketing oil and gas, or either of them, and/or their constituents and related by-products, by methods now known or hereafter discovered, all of that certain tract or parcel of land and/or oil and gas situate in Courthouse District, Lewis County, West Virginia, bounded substantially as follows:

On the North by Lon Sims;

On the East by Jasper Fox; S. O. Rittenhouse;

On the South by Elias Stalnaker;

On the West by L. S. Armstrong;

containing 1/30 of 180 acres, more or less, and being the same land and/or oil and gas acquired by the Lessor by

This lease is made upon the following terms, rents, covenants and conditions, all of which are agreed to by the parties hereto:

1. RIGHTS OF LESSEE: Lessee shall have all rights, privileges and rights of way possessed by the Lessor which are necessary or convenient for the purposes of this lease, including, but not being limited to, the right to inject gas, air, water and other fluids into the sands and formations in said land for recovering and producing the minerals referred to; drilling, reconditioning, redrilling, completing and operating wells; and grading, constructing, maintaining and using access roads, pipelines, power lines, drips, tanks, stations, cathodic protection devices, houses for gates, meters, and regulators for use in connection with operations upon the demised premises or upon other lands owned or leased by the Lessee or its assigns.

2. TERM: This lease shall remain in force for a term of three (3) years from date hereof and as long thereafter as the leased premises or any portion thereof, or any land pooled or unitized with the whole or any part thereof, is operated in the search for or production of oil or gas or oil or gas is found in paying quantities thereon. After termination of this lease, Lessee or its assigns may continue to use roads, pipelines and other facilities, being used in connection with operations on other premises, for as long as the other operations are being conducted. Lessee shall have right to remove its equipment and property after termination of lease.

3. RENTALS AND ROYALTIES:

The Lessee covenants and agrees as follows:

(a) Production Royalty:

(i) Oil:

To pay to Lessor, as royalty for all oil and the constituents thereof, produced and saved from any well or wells drilled on the leased premises, an amount equal to one-eighth (1/8) of the price received by the Lessee from the sale of such oil in the tanks, pipelines or other facilities, to which the Lessee may connect its wells.

(ii) Gas:

To pay Lessor as royalty for all gas and the constituents thereof, including all liquid, solid or gaseous substances produced and saved from any sand or sands on the leased premises, an amount equal to one-eighth (1/8) of the price received by the Lessee from the sale of such gas and the constituents thereof at the well-head.

(b) Delay Rental Payment:

(i) To pay or tender to Lessor as delay rental at the rate of Twenty Four and no/100----- (\$ 24.00) annually, in advance, beginning on the date of this lease, and continue thereafter until a well capable of yielding production royalty to Lessor as provided above is drilled on the leased premises or on any unit or pool involving the leased premises. Any delay rental paid for time beyond the date that a well capable of yielding production royalty to Lessor is drilled on the leased premises shall be credited on production royalty due from the well. If any producing well subsequently ceases to produce or is determined by the Lessee unprofitable to operate for the production of oil or gas, the Lessee may continue to hold said land under the terms hereof for the remainder of the primary term of the lease by resuming payment of delay rental, with said rental to commence ninety (90) days after completion of the plugging of the well or ninety (90) days after termination of production from the same, whichever first occurs. In no event shall this lease terminate or become void for non-payment of delay rentals. However, the Lessor shall have the right of action against the Lessee for the amount of the 09/29/2023 and interest thereon.

PAID 15th yr.
C.B.H.

#1556-F

(c) Shut-In Royalty:

If the Lessee drills a productive well upon the demised premises and, for any reason, does not turn the same into pipelines within six (6) months after the completion of the well, or if the Lessee, for any reason, including but not being limited to, unavailability of markets, coal operations in the area of the well, or production problems, temporarily suspends production from a producing well and such suspension continues for a period of more than ninety (90) days, then the Lessee shall pay a shut-in royalty to the Lessor. The shut-in royalty, in such events, shall be equal to the delay rental herein provided for each acre of the lease held by the well and shall continue until such time as production is resumed. In no event shall this lease terminate or become void for non-payment of shut-in royalty.

(d) Free Gas:

If Lessor owns the surface overlying the gas herein leased, then Lessor hereby excepts and reserves from one well on said land producing gas an amount of gas not to exceed two hundred thousand (200,000) cubic feet per year for his own use for heat and light in one (1) dwelling house on said land at Lessor's own risk. Lessor shall be entitled to receive the free gas when and as long as Lessee may elect to produce or operate a well on the aforesaid leased premises. Lessor shall lay the necessary lines and make connections at Lessor's expense at such point on the demised premises as may be designated by the Lessee, provided said gas is used with economical appliances and is measured by meter furnished by Lessee. The regulation of such gas will be by regulator furnished by Lessor and approved by Lessee, placed at the top on the well or other designated point of connection. Gas shall be used at Lessor's own risk. Lessee shall not be liable for any interruption or insufficient supply of such gas caused by mechanical problems, breakage of lines, shut-in of wells for any purpose or for any reason whatsoever. If more than two hundred thousand (200,000) cubic feet per year is used, the excess shall be paid for by the Lessor at the same rate at which Lessee sells other gas produced from the well. In case of default in payment of gas used in excess of said two hundred thousand (200,000) cubic feet, Lessee is hereby authorized to deduct the amount thereof from any royalty or other payments that are then due or may later become due under the terms of this lease. If Lessor does not own the surface, then Lessee may furnish the free gas to the surface owner at its election, but, in such event, Lessor shall not be liable for gas usage over the free gas limit.

(e) Manner of Payment:

All payments hereunder may be made direct to the Lessor or by check payable and mailed to Nora Elizabeth Groves, as agent of the Lessor, who is hereby appointed agent to receive and receipt for the same and to receive notices given by the Lessee as provided herein. All checks shall be mailed to the following address:

312 South River Avenue S.S. No. 235-62-4641
Weston, West Virginia 26452

4. DAMAGES AND RECLAMATION: Lessee shall pay to Lessor a reasonable amount for damages to fences or gates, or, in the alternative, Lessee may repair or replace the same at its expense. Lessee shall reclaim disturbed areas in a manner as required by its drilling permit and state law.

5. DRILLING NEAR DWELLING: No wells shall be drilled, without the consent of the Lessor, within a radius of two hundred (200) feet around any dwelling house existing at the time of drilling.

6. UNITIZATION: Lessee shall have the right to pool or unitize the leased acreage, or any part or parts thereof, with other tracts so as to form a drilling unit or pool not to exceed 180 acres for formations shallower than 4,000 feet and 640 acres for formations deeper than 4,000 feet. Operations upon the pooled acreage, for all purposes except royalty and free gas, shall be deemed to have occurred upon the demised premises. Lessor shall receive as royalties for minerals produced and marketed from the pooled area an amount equal to the proportion that Lessor's acreage placed in the pooled area bears to the total acreage in the pooled area.

7. SURRENDER: Lessee may at any time, upon the payment or tender of \$1.00 and all royalties and rentals then due hereunder, surrender this lease as to all or any part of the land demised.

8. OUTSTANDING INTERESTS: The rentals, royalties and payments herein specified are intended to be paid for a 100% ownership of the oil and gas. If Lessor owns less than a 100% interest in the oil and gas, the rental, royalty and payments shall be reduced to equal the interest of Lessor (i.e., if Lessor owns only a 50% interest in the oil and gas, then the rental, royalty and payments shall automatically be reduced to 50% of the amounts herein specified).

9. ASSIGNMENT: The entire or part of the interest or estate of either party hereto may be assigned. Upon such an assignment by the Lessee, the assignee shall be solely liable for all obligations of the Lessee hereunder.

10. PARTIAL EXECUTION: Should any of the parties named herein as Lessor fail to execute this lease, it shall, nevertheless, be binding upon all such parties who do execute it as Lessor.

11. OTHER PROVISIONS:

Further more, Union Drilling, Inc. agrees to drill a minimum of one gas or oil well on said leased premises before the expiration of the primary term; provided, however, that there is adequate spacing available and that there are no producing gas or oil wells on said leased premises. This drilling commitment shall only be applicable if and only if Union Drilling, INC. has under lease a 100% interest in the oil and gas.

09/29/2023

12. BINDING EFFECT: This lease shall be binding upon the parties hereto, their heirs, successors and assigns:
WITNESS the following signatures:

LESSOR x

1556-E

OIL & GAS LEASE

Lease No. 1556E

THIS AGREEMENT, made this 1st day of February, 1982, by and between Robert Page Lough and GERALYN N. LOUGH, his wife

Lessors and parties of the first part, hereinafter called "LESSOR" and UNION DRILLING, INC., a corporation, P. O. Drawer 40, Buckhannon, West Virginia, 26201, party of the second part, hereinafter called "LESSEE",

WITNESSETH: For and in consideration of the sum of One Dollar (\$1.00), paid by the Lessee to the Lessor, the receipt of which is hereby acknowledged and of the covenants and agreements herein contained, Lessor does hereby grant, lease, demise and let unto the Lessee, for its exclusive possession and use, for the purpose of exploring, operating for, producing, removing and marketing oil and gas, or either of them, and/or their constituents and related by-products, by methods now known or hereafter discovered, all of that certain tract or parcel of land and/or oil and gas situate in

Courthouse District, Lewis County, West Virginia, bounded substantially as follows:

On the North by Lon Sims;

On the East by Jasper Fox, S. O. Rittenhouse;

On the South by Elias Stalnaker;

On the West by L. S. Armstrong;

containing 1/24 of 180 acres, more or less, and being the same land and/or oil and gas acquired by the Lessor by

This lease is made upon the following terms, rents, covenants and conditions, all of which are agreed to by the parties hereto:

1. RIGHTS OF LESSEE: Lessee shall have all rights, privileges and rights of way possessed by the Lessor which are necessary or convenient for the purposes of this lease, including, but not being limited to, the right to inject gas, air, water and other fluids into the sands and formations in said land for recovering and producing the minerals referred to; drilling, reconditioning, redrilling, completing and operating wells; and grading, constructing, maintaining and using access roads, pipelines, power lines, drips, tanks, stations, cathodic protection devices, houses for gates, meters, and regulators for use in connection with operations upon the demised premises or upon other lands owned or leased by the Lessee or its assigns.

2. TERM: This lease shall remain in force for a term of three (3) years from date hereof and as long thereafter as the leased premises or any portion thereof, or any land pooled or unitized with the whole or any part thereof, is operated in the search for or production of oil or gas or oil or gas is found in paying quantities thereon. After termination of this lease, Lessee or its assigns may continue to use roads, pipelines and other facilities, being used in connection with operations on other premises, for as long as the other operations are being conducted. Lessee shall have right to remove its equipment and property after termination of lease.

3. RENTALS AND ROYALTIES:

The Lessee covenants and agrees as follows:

(a) Production Royalty:

(i) Oil:

To pay to Lessor, as royalty for all oil and the constituents thereof, produced and saved from any well or wells drilled on the leased premises, an amount equal to one-eighth (1/8) of the price received by the Lessee from the sale of such oil in the tanks, pipelines or other facilities, to which the Lessee may connect its wells.

(ii) Gas:

To pay Lessor as royalty for all gas and the constituents thereof, including all liquid, solid or gaseous substances produced and saved from any sand or sands on the leased premises, an amount equal to one-eighth (1/8) of the price received by the Lessee from the sale of such gas and the constituents thereof at the well-head.

(b) Delay Rental Payment:

(i) To pay or tender to Lessor as delay rental at the rate of Thirty and no/100----- (\$ 30.00) annually, in advance, beginning on the date of this lease, and continue thereafter until a well capable of yielding production royalty to Lessor as provided above is drilled on the leased premises or on any unit or pool involving the leased premises. Any delay rental paid for time beyond the date that a well capable of yielding production royalty to Lessor is drilled on the leased premises shall be credited on production royalty due from the well. If any producing well subsequently ceases to produce or is determined by the Lessee unprofitable to operate for the production of oil or gas, the Lessee may continue to hold said land under the terms hereof for the remainder of the primary term of the lease by resuming payment of delay rental, with said rental to commence ninety (90) days after completion of the plugging of the well or ninety (90) days after termination of production from the same, whichever first occurs. In no event shall this lease terminate or become void for non-payment of delay rentals. However, the Lessor shall have the right of action against the Lessee for the amount of 09/29/2023 delay rental and interest thereon.

1556-E 00

(c) Shut-In Royalty:

If the Lessee drills a productive well upon the demised premises and, for any reason, does not turn the same into pipelines within six (6) months after the completion of the well, or if the Lessee, for any reason, including but not being limited to, unavailability of markets, coal operations in the area of the well, or production problems, temporarily suspends production from a producing well and such suspension continues for a period of more than ninety (90) days, then the Lessee shall pay a shut-in royalty to the Lessor. The shut-in royalty, in such events, shall be equal to the delay rental herein provided for each acre of the lease held by the well and shall continue until such time as production is resumed. In no event shall this lease terminate or become void for non-payment of shut-in royalty. However, the Lessor shall have right of action against the Lessee for the amount of shut-in royalty and interest thereon. Shut-in royalty shall not be recoupable against production royalties.

(d) Free Gas:

If Lessor owns the surface overlying the gas herein leased, then Lessor hereby excepts and reserves from one well on said land producing gas an amount of gas not to exceed two hundred thousand (200,000) cubic feet per year for his own use for heat and light in one (1) dwelling house on said land at Lessor's own risk. Lessor shall be entitled to receive the free gas when and as long as Lessee may elect to produce or operate a well on the aforesaid leased premises. Lessor shall lay the necessary lines and make connections at Lessor's expense at such point on the demised premises as may be designated by the Lessee, provided said gas is used with economical appliances and is measured by meter furnished by Lessee. The regulation of such gas will be by regulator furnished by Lessor and approved by Lessee, placed at the top on the well or other designated point of connection. Gas shall be used at Lessor's own risk. Lessee shall not be liable for any interruption or insufficient supply of such gas caused by mechanical problems, breakage of lines, shut-in of wells for any purpose or for any reason whatsoever. If more than two hundred thousand (200,000) cubic feet per year is used, the excess shall be paid for by the Lessor at the same rate at which Lessee sells other gas produced from the well. In case of default in payment of gas used in excess of said two hundred thousand (200,000) cubic feet, Lessee is hereby authorized to deduct the amount thereof from any royalty or other payments that are then due or may later become due under the terms of this lease. If Lessor does not own the surface, then Lessee may furnish the free gas to the surface owner at its election, but, in such event, Lessor shall not be liable for gas usage over the free gas limit.

(e) Manner of Payment:

All payments hereunder may be made direct to the Lessor or by check payable and mailed to Robert Page Lough, as agent of the Lessor, who is hereby appointed agent to receive and receipt for the same and to receive notices given by the Lessee as provided herein. All checks shall be mailed to the following address:

1904 N.W. 45th Street

Kansas City, Missouri 64150

SS# 232-38-6220

4. DAMAGES AND RECLAMATION: Lessee shall pay to Lessor a reasonable amount for damages to fences or gates, or, in the alternative, Lessee may repair or replace the same at its expense. Lessee shall reclaim disturbed areas in a manner as required by its drilling permit and state law.

5. DRILLING NEAR DWELLING: No wells shall be drilled, without the consent of the Lessor, within a radius of two hundred (200) feet around any dwelling house existing at the time of drilling.

6. UNITIZATION: Lessee shall have the right to pool or unitize the leased acreage, or any part or parts thereof, with other tracts so as to form a drilling unit or pool not to exceed 180 acres for formations shallower than 4,000 feet and 640 acres for formations deeper than 4,000 feet. Operations upon the pooled acreage, for all purposes except royalty and free gas, shall be deemed to have occurred upon the demised premises. Lessor shall receive as royalties for minerals produced and marketed from the pooled area an amount equal to the proportion that Lessor's acreage placed in the pooled area bears to the total acreage in the pooled area.

7. SURRENDER: Lessee may at any time, upon the payment or tender of \$1.00 and all royalties and rentals then due hereunder, surrender this lease as to all or any part of the land demised.

8. OUTSTANDING INTERESTS: The rentals, royalties and payments herein specified are intended to be paid for a 100% ownership of the oil and gas. If Lessor owns less than a 100% interest in the oil and gas, the rental, royalty and payments shall be reduced to equal the interest of Lessor (i.e., if Lessor owns only a 50% interest in the oil and gas, then the rental, royalty and payments shall automatically be reduced to 50% of the amounts herein specified).

9. ASSIGNMENT: The entire or part of the interest or estate of either party hereto may be assigned. Upon such an assignment by the Lessee, the assignee shall be solely liable for all obligations of the Lessee hereunder.

10. PARTIAL EXECUTION: Should any of the parties named herein as Lessor fail to execute this lease, it shall, nevertheless, be binding upon all such parties who do execute it as Lessor.

11. OTHER PROVISIONS:

09/29/2023

12. BINDING EFFECT: This lease shall be binding upon the parties hereto, their heirs, successors and assigns:
WITNESS the following signatures:

LESSOR

Y

12. BINDING EFFECT: This lease shall be binding upon the parties hereto, their heirs, successors and assigns:
WITNESS the following signatures:

LESSOR

X Robert Page Lough
Robert Page Lough
X Geralyn N Lough

LESSEE

UNION DRILLING, INC.

BY: Gregory R. Neph

This instrument prepared by James R. [Signature]

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

STATE OF Missouri,
COUNTY OF CLAY, to-wit:

The foregoing instrument was acknowledged before me this 29th day of JANUARY
19 82, by Robert Page Lough and Geralyn N. Lough, his wife

Linda J. Heese
Notary Public

LINDA J. HEESE

My commission expires Feb. 25, 1989
Notary Public State of Missouri
Commissioned in Clay County

THE STATE OF WEST VIRGINIA,
Clerks Office, County Court, Lewis County, } ss.
February 2nd 1982

The foregoing writing _____
together with the certificate thereto annexed was this
day presented in said office and admitted to record.

Attest: Mary K. Holt

STATE OF _____,
COUNTY OF _____, to-wit:

The foregoing instrument was acknowledged before me this _____ day of _____,
19 _____, by _____

Notary Public

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

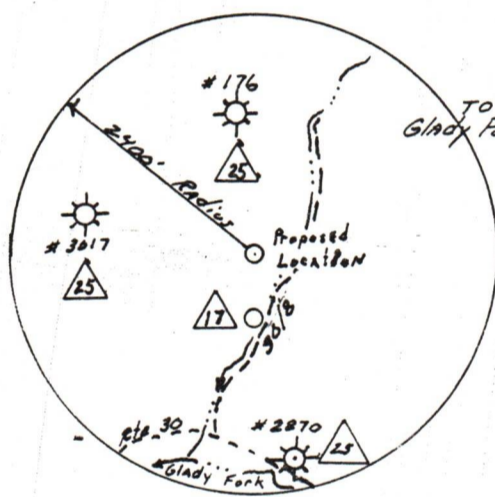
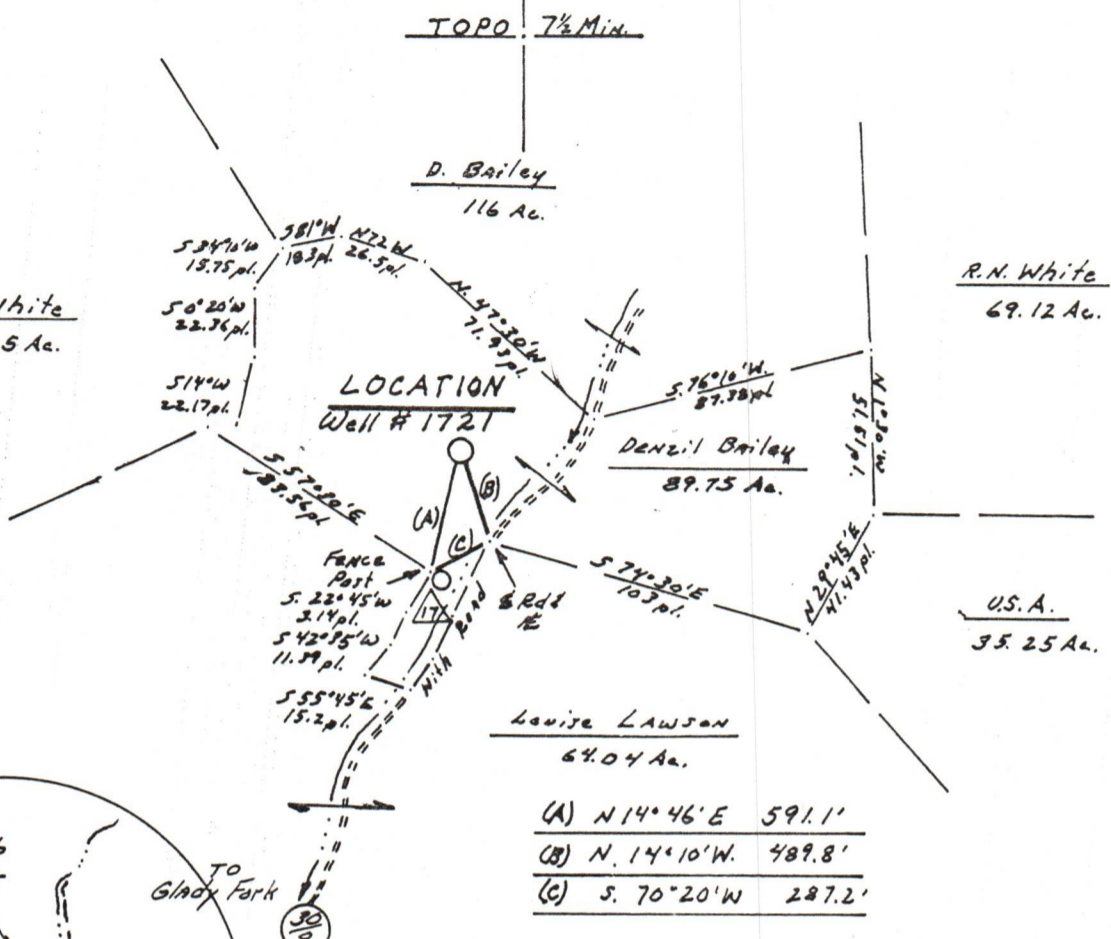
09/29/2023

4-10-23

LATITUDE 39°00'00"

LONGITUDE 80°25'00"

NORTH



FILE NO. 40.01

DRAWING NO. 83-3

SCALE 1" = 1000'

MINIMUM DEGREE OF ACCURACY 1 in 200

PROVEN SOURCE OF ELEVATION Spot Elev. 1062

Rd. Interc. S.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) Rufford S. Ostrander

R.P.E. _____ L.L.S. 555

Buckhannon, W. Va.

PLACE SEAL HERE

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION



DATE 11 April, 19 83

OPERATOR'S WELL NO. # 1721

API WELL NO. _____

47 - 041 - 3384

STATE COUNTY PERMIT

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

WELL TYPE: OIL ___ GAS X LIQUID INJECTION ___ WASTE DISPOSAL ___

(IF "GAS,") PRODUCTION X STORAGE ___ DEEP ___ SHALLOW X

LOCATION: ELEVATION 1229' WATER SHED Gladys Fork

DISTRICT Court House COUNTY Lewis

QUADRANGLE Roanoke

SURFACE OWNER Denzil & Alma Bailey ACREAGE 89.25

OIL & GAS ROYALTY OWNER Heirs LEASE ACREAGE 180

LEASE NO. 1556

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) _____

09/29/2023

PLUG AND ABANDON ___ CLEAN OUT AND REPLUG ___

TARGET FORMATION ALEXANDER ESTIMATED DEPTH 4500'

WELL OPERATOR Union Drilling, Inc. DESIGNATED AGENT JOSEPH C. VANZANT, JR.

ADDRESS P.O. Drawer 40 ADDRESS P.O. Drawer 40

Buckhannon, W. Va. 26201 Buckhannon, W. Va. 26201

FORM IV-6 (8-78)