

1)	Date:	April	12	, 19_	83
2)	Operator's				

3384

Well No.	_	112	-T	
API Well No.	47	ildq	041	-

ILLING CONTI	RACION.					SEMPLE LINES		State	County	Perm
	ling T	nc			STA	TE OF WEST VIRO	GINIA	SOFIELD OUR SILER	HOW THUS AS	
		nc.	DE	EPART	MENT C	OF MINES, OIL AN	ND GAS DIVISION	Lough He	errs #1 (1/2	(1)
. O. Draw		2201	ogasellos					in patural oruges		
uckhannon	AND A HAVE		lon su					nd most brook av		
WELL TYPE:	A Oil	d biall to	/ Gas _	X	X/		PLAN CARTONAUNO	a Turk ordanapartises	estations.	
								/ Deep	_/ ShallowX	(X_/)
LOCATION:						Watershed:		well's analysis (Usig	wollington (8	
		t: Cour						Quadrangle:I		Tao
WELL OPER	ATOR_Un	O Dr	illin	g, Ir	nc.	nel p di pa alcum	DESIGNATED Address	P. O. I		Jr.
Address		ckhann					Micion & Jarro	CALLED TO SELECT AND ADMINISTRATION OF THE PROPERTY OF THE PRO		201
OIL & GAS								becassol at t		
ROYALTYO						12)	COAL OPERA			
Address	SLID DITIES	A STICULA	011 10 J	TEGERAL	Barasar V	nummer and the	Address	Tel 16 her Hillst	batatanat	
	100						ers on outside 10			
Acreage SURFACE OV	180 D	lonzi 1	E Alm	a Rai	ilov	13)	Name SAME	R(S) WITH DECLAR E AS OIL & GAS	S OWNERS: S	RD: See
Address		. O. B			Пеу	balm et	Address	Attache		
Paddress		eston,			2		11441055		Birrollo (2	
Acreage	89.25						Name			
FIELD SALE							Address	BOOK ROT SEEDEN WAS THE	II SHOW THE EAST	
Address	Not D	etermi	ned a	t thi	is tir	me datour sq.	mut success	vind and and action	(2) **CoacQp	
						14)		E WITH DECLARAT	ION ON RECORD	):
OIL & GAS I							Name	none	Minney appropriate	2000年
Name Rol	109 M	linnich	Stre	04U	d lon l	hala S-VI mao-I	Address	Sedmone so live	S) Work that	
Address	Westo	n. WV	2645	2	Didw g	a of law work to	ng is to be pai	retectiva to agents	Quart occurry	
PROPOSED Y								cture or stimulate		
								A Paper of h		
		Other phy	sical char	nge in w	vell (spec	ify)			LALIGNO TES (VI	
GEOLOGICA	L TARGET	T FORMA	TION, _	F	Alexai	nder				
17) Estimated	depth of co	ompleted w	vell,		4500	feet	williams bust.	construction (responden	(8) Benth (c.	
							ılt, ?		no invete	
<ul><li>18) Approxin</li><li>19) Approxin</li></ul>	nate coal sea	am depths:		?				area? Yes		CX
19) Approxim	nate coar see	in deptils.		?		Is coal t	peing mined in the	e area? Yes	/ No. 3	1
CASING ANI	nate coar see	PROGRA	M	9-1-2		Is coal to	peing mined in the	area? Yes	No. 2	1
19) Approxim	D TUBING	PROGRA	AM CIFICATIO	NS I	e e +	Is coal b	peing mined in the	carea? YesCEMENT FILL-UP OR SACKS	/ No. 3	1
CASING AND CASING OR TUBING TYPE	D TUBING	PROGRA	AM CIFICATIO	NS New		Is coal to	oeing mined in the	area? Yes	No. 2	1
CASING AND CASING OR TUBING TYPE Conductor	D TUBING	PROGRA	AM CIFICATIO	NS I	e e +	Is coal b	peing mined in the	carea? YesCEMENT FILL-UP OR SACKS	No. 2	1
CASING OR TUBING TYPE  Conductor Fresh water	D TUBING	PROGRA	AM CIFICATIO	NS New	e e +	Is coal to	oeing mined in the	carea? YesCEMENT FILL-UP OR SACKS	No. 2	1
CASING AND CASING OR TUBING TYPE  Conductor Fresh water Coal	D TUBING Size 11 3/4	PROGRA SPE Grade	AM CIFICATIO	NS New	e e +	Is coal to	oeing mined in the	carea? YesCEMENT FILL-UP OR SACKS	No. 2	1
CASING AND CASING OR TUBING TYPE Conductor Fresh water Coal Intermediate	D TUBING  Size	PROGRA SPE Grade	AM CIFICATIO Weight per ft.	NS New X	e e +	FOOTAGE For drilling	INTERVALS  Left in well  20 *	carea? YesCEMENT FILL UP OR SACKS (Cubic feet)  to surface 400 sks. or	No. 2	1
CASING OR TUBING TYPE  Conductor	D TUBING  Size  11 3/4  8 5/8	PROGRA SPE Grade	CIFICATIO Weight per ft.	NS New X	e e +	FOOTAGE For drilling	INTERVALS  Left in well  20 †	cerea? YesCEMENT FILL-UP OR SACKS (Cubic feet)	PACKERS  Kinds  Sizes	1
CASING AND CASING OR TUBING TYPE  Conductor Fresh water Coal Intermediate Production Tubing	D TUBING  Size  11 3/4  8 5/8	PROGRA SPE Grade	CIFICATIO Weight per ft.	NS New X	e e +	FOOTAGE For drilling	INTERVALS  Left in well  20 †	carea? YesCEMENT FILL UP OR SACKS (Cubic feet)  to surface 400 sks. or	PACKERS  Kinds  Sizes	1
CASING AND CASING OR TUBING TYPE  Conductor Fresh water Coal Intermediate Production Tubing	D TUBING  Size  11 3/4  8 5/8	PROGRA SPE Grade	CIFICATIO Weight per ft.	NS New X	e e +	FOOTAGE For drilling	INTERVALS  Left in well  20 †	carea? YesCEMENT FILL UP OR SACKS (Cubic feet)  to surface 400 sks. or	PACKERS  Kinds  Sizes  Depths set  Perforations:	1
CASING AND CASING OR TUBING TYPE  Conductor Fresh water  Coal Intermediate Production Tubing	D TUBING  Size  11 3/4  8 5/8	PROGRA SPE Grade	CIFICATIO Weight per ft.	NS New X	e e +	FOOTAGE For drilling	INTERVALS  Left in well  20 †	carea? YesCEMENT FILL UP OR SACKS (Cubic feet)  to surface 400 sks. or	PACKERS  Kinds  Sizes  Depths set  Perforations:	
CASING AND CASING OR TUBING TYPE  Conductor Fresh water Coal Intermediate Production Tubing	D TUBING  Size  11 3/4  8 5/8	PROGRA SPE Grade	CIFICATIO Weight per ft.	NS New X	e e +	FOOTAGE For drilling	INTERVALS  Left in well  20 †	carea? YesCEMENT FILL UP OR SACKS (Cubic feet)  to surface 400 sks. or	PACKERS  Kinds  Sizes  Depths set  Perforations:	
CASING AND CASING OR TUBING TYPE  Conductor Fresh water Coal Intermediate Production Tubing Liners  EXTRACTIO	Size 11 3/4 8 5/8 4 1/2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	PROGRA SPE Grade	CIFICATIO Weight per ft.  23# 10½#	NS New X	e e +	FOOTAGE For drilling	INTERVALS  Left in well  20 †	carea? YesCEMENT FILL UP OR SACKS (Cubic feet)  to surface 400 sks. or	PACKERS  Kinds  Sizes  Depths set  Perforations:	Bottom
CASING AND CASING OR TUBING TYPE  Conductor Fresh water Coal Intermediate Production Tubing Liners  EXTRACTIO Check and pro-	Size  11 3/4  8 5/8 4 1/2  ON RIGHTS  ovide one o	PROGRA  SPE Grade	CIFICATIO Weight per ft.  23# 10½#	NS New X	Used	FOOTAGE For drilling 20 '	INTERVALS  Left in well  20   850   4500	to surface 400 sks. or as required	PACKERS  Kinds  Sizes  Depths set  Perforations:  Top	Bottom
CASING AND CASING OR TUBING TYPE  Conductor Fresh water Coal Intermediate Production Tubing Liners  EXTRACTIO Check and proximal contents  EXTRACTIO Check and proximal conten	Size  11 3/4  8 5/8 4 1/2  ON RIGHTS ovide one o ed is the lea	PROGRA  SPE Grade  Grade  f the follose or lease	CIFICATIO Weight per ft.  23# 10½#	NS New X X X	Used Used	FOOTAGE For drilling 20 ' 850 '	Deing mined in the INTERVALS  Left in well  20 '  850 ' 4500 '	carea? YesCEMENT FILL UP OR SACKS (Cubic feet)  to surface 400 sks. or	PACKERS  Kinds  Sizes  Depths set  Perforations:  Top	Bottom
CASING AND CASING OR TUBING TYPE  Conductor Fresh water Coal Intermediate Production Tubing Liners  EXTRACTIO Check and production Tubing	Size  11 3/4  8 5/8 4 1/2  N RIGHTS ovide one of ed is the lear quirement of the size of t	PROGRA  SPE Grade  Grade  f the following or lease of Code 22.	CIFICATIO Weight per ft.  23# 10½#	NS New X X X	Used Used	FOOTAGE For drilling 20 '	Deing mined in the INTERVALS  Left in well  20 '  850 ' 4500 '	to surface 400 sks. or as required	PACKERS  Kinds  Sizes  Depths set  Perforations:  Top	Bottom
CASING AND CASING OR TUBING TYPE  Conductor Fresh water Coal Intermediate Production Tubing Liners  EXTRACTIO Check and production Tubing Liners  EXTRACTIO Check and production The recognition The recogniti	Size  11 3/4  8 5/8 4 1/2  ON RIGHTS ovide one of ed is the lead quirement of the results of the state of the	PROGRA  SPE Grade  Grade  Grade  Grade  Grade  Grade  Grade  Grade	wing: s or other-4-1-(c) (1	NS New X X X X Or continuity through the same of the s	used Used using congh (4).	FOOTAGE For drilling 20 ' 850 '	Deing mined in the INTERVALS  Left in well  20 '  850 ' 4500 '	to surface 400 sks. or as required	PACKERS  Kinds  Sizes  Depths set  Perforations: Top  Top  Top  Top  Top  Top  Top  Top	Bottom 3 1  AS D  DF  alty or
CASING AND CASING OR TUBING TYPE  Conductor Fresh water Coal Intermediate Production Tubing Liners  EXTRACTIO Check and pro XX Include The rec ROYALTY P Is the right to similar provis	Size  11 3/4  8 5/8  4 1/2  N RIGHTS ovide one of ed is the lear quirement of ROVISION extract, profion for confine for confin	PROGRA  SPE Grade	wing: s or other-4-1-(c) (1) arket the o	NS New X X X X or continuity through the cont	used Used using congh (4).	FOOTAGE For drilling 20 ' 850 '	Deing mined in the INTERVALS  Left in well  20 '  850 ' 4500 '	to surface 400 sks. or as required	PACKERS  Kinds  Sizes  Depths set  Perforations: Top  Top  Top  Top  Top  Top  Top  Top	Bottom 3 1  AS D  DF  alty or
CASING AND CASING OR TUBING TYPE  Conductor Fresh water  Coal Intermediate Production Tubing Liners  EXTRACTIO Check and pro XX Include The rec ROYALTY P Is the right to similar provis	Size  11 3/4  8 5/8 4 1/2  N RIGHTS ovide one of ed is the lear equirement of ROVISION extract, proficion for comparketed?	PROGRA  SPEC Grade  Grade  Grade  f the follouse or lease of Code 22.  Siduce or man pensation  Yes	wing: s or other -4-1-(c) (1) arket the or	NS New X X X X Continuous oil or gawner of CX	Used  Used  using congh (4). (6) the oil of	FOOTAGE For drilling 20 '  850 '  tract or contracts b (See reverse side for a lease or other or gas in place which is the state of the	peing mined in the INTERVALS  Left in well  20 '  850 ' 4500 '	to surface 400 sks. or as required te right to extract oil of	PACKERS  Kinds  Sizes  Depths set  Perforations: Top  Top  Top  Top  Top  Top  Top  Top	Bottom 3 1  AS D  DF  alty or
CASING AND CASING OR TUBING TYPE  Conductor Fresh water Coal Intermediate Production Tubing Liners  EXTRACTIO Check and production The recent of the recent of the complete of	Size  11 3/4  8 5/8 4 1/2  N RIGHTS ovide one of ed is the lear quirement of ROVISION extract, profit of room marketed?	PROGRA  SPEC Grade  Gra	wing: s or other -4-1-(c) (1) arket the or No XX tional is 1	NS New X X X X Continuous oil or gawner of CX	Used  Used  using congh (4). (6) the oil of	FOOTAGE For drilling 20 ' 850 '	peing mined in the INTERVALS  Left in well  20 '  850 ' 4500 '	to surface 400 sks. or as required te right to extract oil of	PACKERS  Kinds  Sizes  Depths set  Perforations:  Top  Top  ing for flat well roys me of oil or gas so	Bottom 3 1
CASING AND CASING OR TUBING TYPE  Conductor Fresh water Coal Intermediate Production Tubing Liners  EXTRACTIO Check and pro XX Include The rec ROYALTY P Is the right to similar provise produced or reche answer above Required Cop Corpies of the	Size  11 3/4  8 5/8 4 1/2  N RIGHTS ovide one of ed is the lear equirement of PROVISION extract, profine in the control of the	PROGRA  SPEC Grade  Gra	wing: s or other -4-1-(c) (1 arket the or No XX tional is 1	X X X X X X In continual through the second of the second	Used  Used  Used  If the oil	FOOTAGE For drilling 20 '  850 '  tract or contracts b (See reverse side for upon a lease or other or gas in place which are the second or gas in place which a	y which I hold the specifics.)  r continuing control is not inherent any use Affidavit	to surface 400 sks. or as required  te right to extract oil of	PACKERS  Kinds  Sizes  Depths set  Perforations: Top  Top  Top  Top  Top  Top  Top  Top	Bottom  3 1:  AS Di  alty or extract
CASING ANI CASING OR TUBING TYPE  Conductor Fresh water Coal Intermediate Production Tubing Liners  EXTRACTIO Check and production The recent of the recent of the complete of	Size  11 3/4  8 5/8  4 1/2  N RIGHTS ovide one of ed is the lear quirement of ROVISION extract, profion for commarketed?  The is No, no poes (See revision for commarketed) are in the poperator, cooperator, coop	PROGRA  SPEC Grade  Gra	wing:  s or other  4-1-(c) (1)  arket the or  No XX  tional is 1  and the eco, and co	X X X X X X In continual through the second of the second	Used  Used  Used  If the oil	FOOTAGE For drilling 20 '  850 '  tract or contracts b (See reverse side for upon a lease or other or gas in place which are the second or gas in place which a	y which I hold the specifics.)  r continuing control is not inherent any use Affidavit	to surface 400 sks. or as required  region to extract oil of the right to extract or contracts provide the related to the volume form IV-60.	PACKERS  Kinds  Sizes  Depths set  Perforations: Top  Top  Top  Top  Top  Top  Top  Top	Bottom  3 1:  AS Di  alty or extract
CASING AND CASING OR TUBING TYPE  Conductor Fresh water Coal Intermediate Production Tubing Liners  EXTRACTIO Check and pro XX Include The rec ROYALTY P Is the right to similar provise produced or reche answer above Required Cop Corpies of the	Size  11 3/4  8 5/8  4 1/2  N RIGHTS ovide one of ed is the lear quirement of ROVISION extract, profion for commarketed?  The is No, no poes (See revision for commarketed) are in the poperator, cooperator, coop	PROGRA  SPEC Grade  Gra	wing:  wing:  so or other  4-1-(c) (1  arket the or  No XX  tional is 1	NS New X X X X X  r continuity through the co	Used  Used  Used  If the oil	FOOTAGE For drilling 20 '  850 '  tract or contracts b (See reverse side for upon a lease or other or gas in place which are the second or gas in place which a	y which I hold the specifics.)  r continuing control is not inherent any use Affidavit	to surface 400 sks. or as required  te right to extract oil of	PACKERS  Kinds  Sizes  Depths set  Perforations: Top  Top  Top  Top  Top  Top  Top  Top	Bottom  3 1:  AS Di  alty or extract
CASING ANI CASING OR TUBING TYPE  Conductor Fresh water Coal Intermediate Production Tubing Liners  EXTRACTIO Check and proxix Include The rec ROYALTY P Is the right to similar provis produced or in the answer above Required Cop Copies of thi named coal of	Size  11 3/4  8 5/8  4 1/2  N RIGHTS ovide one of ed is the lear quirement of ROVISION extract, profion for commarketed?  The is No, no poes (See revision for commarketed) are in the poperator, cooperator, coop	PROGRA  SPEC Grade  Gra	wing:  wing:  so or other  4-1-(c) (1  arket the or  No XX  tional is 1	X X X X X X In continual through the second of the second	Used  Used  Used  If the oil	FOOTAGE For drilling 20 '  850 '  tract or contracts b (See reverse side for upon a lease or other or gas in place which are the second or gas in place which a	y which I hold the specifics.)  r continuing control is not inherent and use Affidavit and use Affidavit signed:	to surface 400 sks. or as required  reight to extract oil of the right to the volume of this Permit App	PACKERS  Kinds  Sizes  Depths set  Perforations:  Top  Top  Top  Top  Top  Top  Top  To	Bottom  3 1  AS Di  alty or extract
CASING ANI CASING OR TUBING TYPE  Conductor Fresh water  Coal Intermediate Production Tubing Liners  EXTRACTIO Check and pro XX Include The rec ROYALTY P Is the right to similar provis produced or relationship in the answer above Required Copies of this named coal of Mines at Cha	Size  11 3/4  8 5/8  4 1/2  N RIGHTS ovide one of ed is the lead quirement of ROVISION extract, profion for commarketed?  The is No, no ones (See reverse Permit Apperator, contracts, we have a second properator, contracts, we have a second profit of the second	PROGRA  SPEC Grade  Gra	wing:  wing:  so or other  4-1-(c) (1  arket the or  No XX  tional is 1	NS New X X X X X  r continuity through the co	Used  Used  Used  If the oil	FOOTAGE For drilling 20 '  850 '  tract or contracts b (See reverse side for upon a lease or other or gas in place which are the second or gas in place which a	y which I hold the specifics.)  r continuing control is not inherent and use Affidavit and use Affidavit and use Affidavit and use mailed a mailing or deliv	to surface 400 sks. or as required  reight to extract oil of the right to the volume of this Permit App	PACKERS  Kinds  Sizes  Depths set  Perforations:  Top  Top  Top  Top  Top  Top  Top  To	Bottom  3 1  AS Di  alty or extract
CASING AND CASING OR TUBING TYPE  Conductor Fresh water Coal Intermediate Production Tubing Liners  EXTRACTIO Check and pro XX Include The rec ROYALTY P Is the right to similar provis produced or re the answer above Required Cop Copies of thi named coal of Mines at Cha Notary:	Size  11 3/4  8 5/8  4 1/2  N RIGHTS ovide one of ed is the lead quirement of ROVISION extract, profion for commarketed?  The is No, no ones (See reverse Permit Apperator, contracts, we have a second properator, contracts, we have a second profit of the second	PROGRA  SPEC Grade  Gra	wing:  so or other  arket the or  No XX  tional is 1	NS New X X X X X  r continuity through the co	Used  Used  Used  If the air plat and e on or b	FOOTAGE For drilling 20 '  850 '  tract or contracts b (See reverse side for a lease or other or gas in place which are the day of the sefore t	y which I hold the specifics.)  r continuing control is not inherent and use Affidavit and use Affidavit and use Been mailed a mailing or delive Signed:  Its: Josep	to surface 400 sks. or as required  reight to extract oil of the right to the volume of this Permit App	PACKERS  Kinds  Sizes  Depths set  Perforations:  Top  Top  Top  Top  Top  Top  Top  To	Bottom  AS Di  alty or extract
CASING ANI CASING OR TUBING TYPE  Conductor Fresh water Coal Intermediate Production Tubing Liners  EXTRACTIO Check and pro XX Include The rec ROYALTY P Is the right to similar provis produced or received in the answer above Required Cop Copies of thi named coal of Mines at Cha	Size  11 3/4  8 5/8  4 1/2  N RIGHTS ovide one of ed is the lead quirement of ROVISION extract, profion for commarketed?  The is No, no ones (See reverse Permit Apperator, contracts, we have a second properator, contracts, we have a second profit of the second	PROGRA  SPEC Grade  Gra	wing:  so or other  arket the or  No XX  tional is 1	NS New X X X X X  r continuity through the co	used used using congh (4). (as based of the oil plat and e on or b	FOOTAGE For drilling 20 '  850 '  tract or contracts b (See reverse side for a lease or other or gas in place which are the day of the contract of the day of the day of the contract of the day of	y which I hold the specifics.)  y which I hold the specifics.)  continuing control is not inherent and use Affidavit mave been mailed a mailing or delive Signed:  Its: Josep.	carea? Yes  CEMENT FILLUP OR SACKS (Cubic feet)  to surface  400 sks. or as required  as required  the right to extract oil of the related to the voluments of the registered mail or of the registered	PACKERS  Kinds  Sizes  Perforations:  Top  Top  Top  Top  Top  Top  Top  To	Bottom  3 10  AS Di  alty or a extract
CASING AND CASING OR TUBING TYPE  Conductor Fresh water Coal Intermediate Production Tubing Liners  EXTRACTIO Check and pro XX Include The rec ROYALTY P Is the right to similar provis produced or received in the answer above of Required Copies of this named coal of Mines at Challen Notary:	Size  11 3/4  8 5/8  4 1/2  N RIGHTS ovide one of is the lear quirement of ROVISION extract, proficion for commarketed?  We is No, no poies (See reverse Permit Apperator, compression, Western Expires.	PROGRA  SPEC Grade  Gra	wing: s or other 4-1-(c) (1) arket the or No XX tional is 1 and the e	NS New X X X X X  r continuity through the co	used used using congh (4). (as based of the oil plat and e on or b	FOOTAGE For drilling 20 '  850 '  tract or contracts b (See reverse side for a lease or other or gas in place which are the day of the sefore t	y which I hold the specifics.)  y which I hold the specifics.)  continuing control is not inherent and use Affidavit mave been mailed a mailing or delive Signed:  Its: Josep.	carea? Yes  CEMENT FILLUP OR SACKS (Cubic feet)  to surface  400 sks. or as required  as required  the right to extract oil of the related to the voluments of the registered mail or of the registered	PACKERS  Kinds  Sizes  Depths set  Perforations:  Top  Top  Top  Top  Top  Top  Top  To	Bottom  3 10  AS Di  alty or a extract

irements subject to the conditions contained herein and on the reve	erse nereot. Notification must be given to the District On and Gas inspector.
efer 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
oper district oil and gas inspector 24 hours before actual permitted	work has commenced.)
rmit expires May 14, 1984	unless drilling is commenced prior to that date and prosecuted with due diligence.

Bond:

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 then six thousand feet, whatever is shallower.
  - 5) Where well is located
- 6) Before a permit can be issued in a corporation, company partnership, or fictitious name, the name must be registered with the Secretary of State Office
- 7) Use separate sheet if necessary
- 8) Present surface owner at time application is filed.
- 9) Optional
- 11) See Reg. 7.01 relating to code §22-4-1k
- 12) "Coal Operator" means any persons, firm, partnership, partnership association or corporation that proposes to or does operate a coal mine. See Note 24
- 13 & 14) As per §22-4-20; See Note 24
  - 15) Work that will be attempted—A separate Form IV-2 shall not be required for fracturing or stimulating a well where fracturing or stimulating is to be part of the work for which a permit is sought and is noted as such on the Form IV-2 filed in connection therewith.
  - 16) Anticipated formation for which well will be completed
  - 17) Self explanatory
  - 18) Depth to deepest freshwater, and shallowest salt water, taken from nearby wells corrected for differences in elevation
  - 19) All coal seam depths
  - 20) Proposed casing program and cementing refer to Code 22-4-5, 22-4-6, 22-4-7, 22-4-8, 22-4-8a Reg 9.01, 15.01, 15.02, 15.03, 15.04, 25.01, 25.02, 25.03, 25.04
  - 21) Code 22-4-11(c) In lieu of filing the lease or leases or other continuing contract or contracts, the applicant for a permit described herein may file the following:
    - (1)A brief description of the tract of land including the district and county wherein the tract is located;
    - (2) The identification of all parties to all leases or other continuing contractual agreements by which the right to extract, produce or market the oil or gas is claimed;
    - (3) The book and page number wherein each such lease or contract by which the right to extract, produce or market the oil or gas is recorded;
    - (4)A brief description of the royalty provisions of each such lease or contract.
  - 22) Code 22-4-11(d) and 22-4-11(e).
  - 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 1190	<b>第二次的第三人称单数形式 医克里斯氏管 医克里斯氏病 化</b>
dded to the mine map. The undersigned	a mine map exists weed has no objection in	hich covers the are	of the coal under this well location has exea of the well location, the well location has been sed to be done at this location, provided, the well a Code and the governing regulations.
	Son and		ANIGHT DE



## 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	0. 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, WW 26452

Mildred Lough 3058 Liberty Street Parkersburg, W 26101

Nora Groves 312 S. River Avenue Weston, WV 26452



DEPT. OF MINES

IV-9 (Rev 8-81)

COMPANY NAME Union Drilling, Inc.

Address P. O. Drawer 40, Buckhannon, WV



DATE	8-17-83	
WELL	NO. /72/	

# Bepartment of Mines

State of Mest Mirginia API NO. 47 - Lewis - 3384

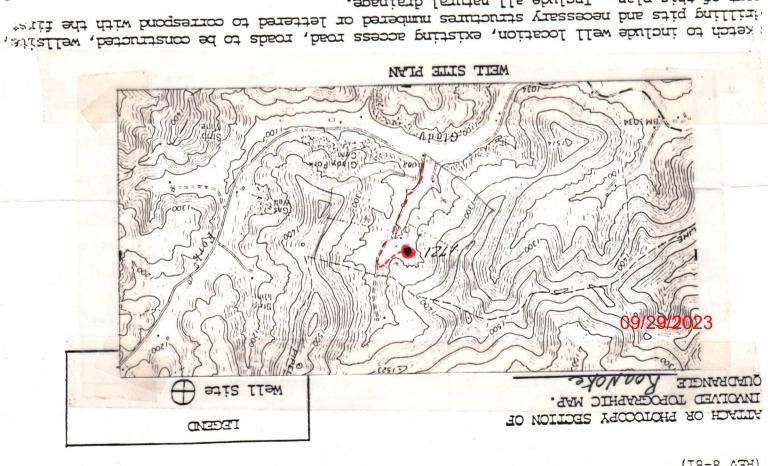
DESIGNATED AGENT Joseph C. Vanzant, Jr.

Address P. O. Drawer 40, Buckhannon, WV

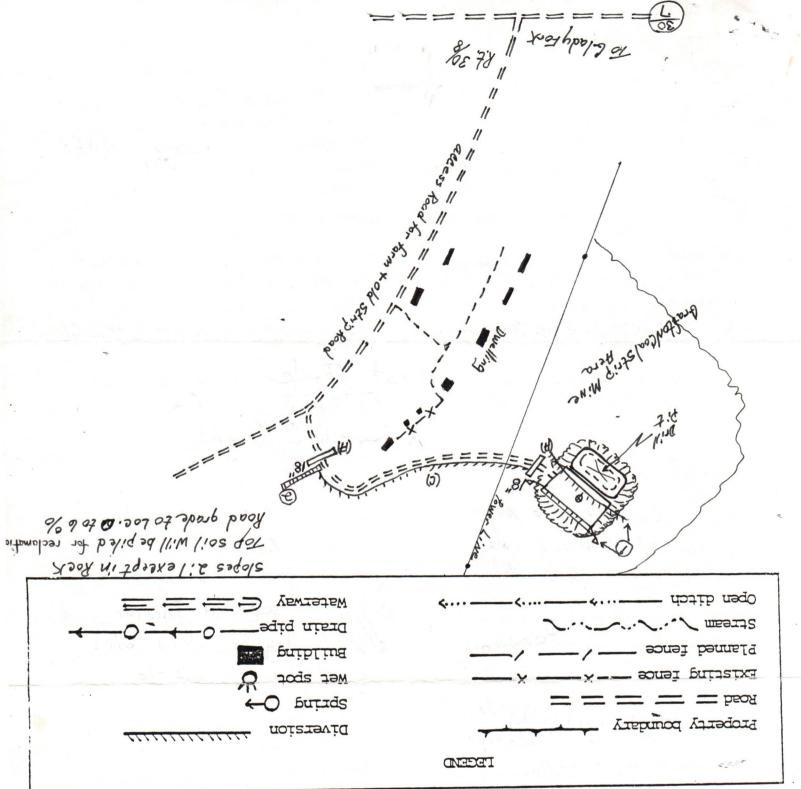
Bil und Gas Bivision

#### CONSTRUCTION AND RECLAMATION PLAN

Telephone 472-4610	Telephone 472-4610
LANDOWNER DeNZ: / + Alma Bailey	SOIL CONS. DISTRICT West FORKS.C.D.
Revegetation to be carried out by U	nion Drilling, Inc. (Agent)
This plan has been reviewed by	West Fork SOD. All corrections
and additions become a part of this plan:	830/83
	Date) OV 1
	(SCD Agent)
	(SI) AGEIL)
ACCESS ROAD	LOCATION
Structure Culvert Pipe (18" Min) (1	A) Structure Diversion Ditch (1)
spacing At Natural Drains	Material Earthen
Page Ref. Manual 2-7	Page Ref. Manual 2-/2
Sec	9 100
	B) Structure Sediment Barrier (2)
	983 Material Hay or Straw bales.
Page Ref. Manual	Page Ref. Manual 2-16
a la	N Superior S
tructure Koadway Ditch	Structure (3)
- 10 000 (CUTE)	9
pacing as showNoN sketch	Material
Page Ref. Manual 2-/2  All structures should be inspected recommercial timber is to be cut and state	Page Ref. Manual  egularly and repaired if necessary. All  eked and all brush and small timber to be
age Ref. Manual 2-/2  All structures should be inspected recommercial timber is to be cut and stacked cut and removed from the site before di	Page Ref. Manual egularly and repaired if necessary. All eked and all brush and small timber to be ext work begins.
All structures should be inspected recommercial timber is to be cut and stack cut and removed from the site before di	Page Ref. Manual  egularly and repaired if necessary. All  eked and all brush and small timber to be  ert work begins.
age Ref. Manual 2-/2  All structures should be inspected recommercial timber is to be cut and stack cut and removed from the site before discrete and removed from the site before a	Page Ref. Manual  egularly and repaired if necessary. All  eked and all brush and small timber to be  ext work begins.  Treatment Area II
All structures should be inspected recommercial timber is to be cut and state cut and removed from the site before di	Page Ref. Manual  egularly and repaired if necessary. All eked and all brush and small timber to be art work begins.  Treatment Area II  **Lime** 3 Tons/acre**
age Ref. Manual 2-/2  All structures should be inspected recommercial timber is to be cut and stack cut and removed from the site before di  REVE  Treatment Area I  ime 3 Tons/acre  or correct to pH 6.5  extilizer 600 lbs/acre	Page Ref. Manual  egularly and repaired if necessary. All eked and all brush and small timber to be irt work begins.  Treatment Area II  **Lime
age Ref. Manual 2-/2  All structures should be inspected recommercial timber is to be cut and state cut and removed from the site before di  REVE  Treatment Area I  ime 3 Tons/acre  or correct to pH 6.5  ertilizer 600 lbs/acre  (10-20-20 or equivalent)	Page Ref. Manual  egularly and repaired if necessary. All eked and all brush and small timber to be int work begins.  Treatment Area II  **XLime** 3 Tons/acre or correct to pH 6.5
age Ref. Manual 2-/2  All structures should be inspected recommercial timber is to be cut and state cut and removed from the site before di  REVE  Treatment Area I  ime 3 Tons/acre or correct to pH 6.5  ertilizer 600 lbs/acre (10-20-20 or equivalent)  ilch 2 Hay Tons/acre	Page Ref. Manual  egularly and repaired if necessary. All eleked and all brush and small timber to be ext work begins.  Treatment Area II  **Lime 3 Tons/acre or correct to pH 6.5  Fertilizer 600 lbs/acre
age Ref. Manual 2-/2  All structures should be inspected recommercial timber is to be cut and state cut and removed from the site before di  REVE  Treatment Area I  ime 3 Tons/acre  or correct to pH 6.5  ertilizer 600 lbs/acre  (10-20-20 or equivalent)  alch 2 Hay Tons/acre  eed* Ky-31 30 lbs/acre	Page Ref. Manual  egularly and repaired if necessary. All eked and all brush and small timber to be int work begins.  Treatment Area II  **Lime 3 Tons/acre or correct to pH_6.5  Fertilizer 600 lbs/acre (10-20-20 or equivalent)
All structures should be inspected recommercial timber is to be cut and state cut and removed from the site before di  REVE  Treatment Area I  ime 3 Tons/acre or correct to pH 6.5  ertilizer 600 lbs/acre (10-20-20 or equivalent)  alch 2 Hay Tons/acre eed* Ky-31 30 lbs/acre Birdsfoot 10 lbs/acre	Page Ref. Manual  egularly and repaired if necessary. All eked and all brush and small timber to be art work begins.  Treatment Area II  YLime 3 Tons/acre or correct to pH 6.5  Fertilizer 600 lbs/acre (10-20-20 or equivalent)  Mulch 2 Hay Tons/acre
age Ref. Manual 2-/2  All structures should be inspected recommercial timber is to be cut and state cut and removed from the site before di  REVE  Treatment Area I  ime 3 Tons/acre or correct to pH 6.5  ertilizer 600 lbs/acre (10-20-20 or equivalent)  alch 2 Hay Tons/acre ed* Ky-31 30 lbs/acre Birdsfoot 10 lbs/acre Domestic Rye 10 lbs/acre	Page Ref. Manual  Egularly and repaired if necessary. All sked and all brush and small timber to be int work begins.  Treatment Area II  **XLime 3 Tons/acre or correct to pH 6.5  Fertilizer 600 lbs/acre (10-20-20 or equivalent)  Mulch 2 Hay Tons/acre  Seed* Ky-31 30 lbs/acre  Birdsfoot 10 lbs/acre  Domestic Rye 10 lbs/acre
age Ref. Manual 2-/2  All structures should be inspected recommercial timber is to be cut and state cut and removed from the site before di  REVE  Treatment Area I  ime 3 Tons/acre or correct to pH 6.5  ertilizer 600 lbs/acre (10-20-20 or equivalent)  alch 2 Hay Tons/acre ed* Ky-31 30 lbs/acre Birdsfoot 10 lbs/acre Domestic Rye 10 lbs/acre	Page Ref. Manual  egularly and repaired if necessary. All sked and all brush and small timber to be int work begins.  Treatment Area II  **Lime 3 Tons/acre or correct to pH 6.5  Fertilizer 600 lbs/acre (10-20-20 or equivalent)  Mulch 2 Hay Tons/acre Seed* Ky-31 30 lbs/acre  Birdsfoot 10 lbs/acre
All structures should be inspected recommercial timber is to be cut and state cut and removed from the site before discreted from the site before d	Page Ref. Manual  Equilarly and repaired if necessary. All sked and all brush and small timber to be int work begins.  Treatment Area II  XLime 3 Tons/acre or correct to pH 6.5  Fertilizer 600 lbs/acre (10-20-20 or equivalent)  Mulch 2 Hay Tons/acre  Seed* Ky-31 Jbs/acre  Birdsfoot 10 lbs/acre  Domestic Rye 10 lbs/acre
All structures should be inspected recommercial timber is to be cut and state cut and removed from the site before discreted from the site before d	Page Ref. Manual  Egularly and repaired if necessary. All sked and all brush and small timber to be set work begins.  Treatment Area II  **XETATION**  Treatment Area II  **XLime 3 Tons/acre or correct to pH 6.5  Fertilizer 600 lbs/acre (10-20-20 or equivalent)  Mulch 2 Hay Tons/acre  Seed* Ky-31 30 lbs/acre  Birdsfoot 10 lbs/acre  Birdsfoot 10 lbs/acre  Domestic Rye 10 lbs/acre  refoil and clovers with the proper bacterium.
All structures should be inspected recommercial timber is to be cut and state cut and removed from the site before discreted and removed and removed from the site before discreted and removed recommended amount.  Lime according to Ph test  "CTES: Please request indicates and recommended amount to protect new according to Ph test	Page Ref. Manual  Egularly and repaired if necessary. All sked and all brush and small timber to be int work begins.  Treatment Area II  **XETATION**  Treatment Area II  **XLime 3 Tons/acre or correct to pH 6.5  Fertilizer 600 lbs/acre (10-20-20 or equivalent)  Mulch 2 Hay Tons/acre  Seed* Ky-31 30 lbs/acre  Birdsfoot 10 lbs/acre  Birdsfoot 10 lbs/acre  Domestic Rye 10 lbs/acre  refoil and clovers with the proper bacterium.  TANY PREPARED BY January O' Managers/2023
All structures should be inspected recommercial timber is to be cut and state cut and removed from the site before discreted from the site before d	Page Ref. Manual  Egularly and repaired if necessary. All sked and all brush and small timber to be int work begins.  Treatment Area II  **XETATION**  Treatment Area II  **XLime 3 Tons/acre or correct to pH 6.5  Fertilizer 600 lbs/acre (10-20-20 or equivalent)  Mulch 2 Hay Tons/acre  Seed* Ky-31 30 lbs/acre  Birdsfoot 10 lbs/acre  Birdsfoot 10 lbs/acre  Domestic Rye 10 lbs/acre  refoil and clovers with the proper bacterium.



sart of this plan. Include all natural drainage.



# 1556-D

## OIL & GAS LEASE

Lease No. 1556D THIS AGREEMENT, made this 15th day of Thereney, 19 62, by and 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 considerarion 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 \_District, <u>Lewis</u> \_\_County,\_\_ West Virginia Courthouse tially 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 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 Lessee or its assigns may continue to use roads, pipelines and other facilities, being used in connection with operations on property after termination of lease. 3. RENTALS AND ROYALTIES: The Lessee covenants and agrees as follows: APR 1 3 1983 (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.

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 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 under the terms hereof for the remainder of the primary term of oil or gas, the Lessee may continue to hold said land rental to commence ninety (90) days after completion of the plugging of the well or ninety (90) days after termination of delay rentals. However, the Lessor shall have the right of action against the Lessee for the amount of the primary terms of action against the Lessee for the amount of the primary terms of the lease terminate or become void for promary production from the same, whichever first occurs. In no event shall this lease terminate or become void for promary production from the same and the lessor shall have the right of action against the Lessee for the amount of the primary terms and the lease terminate or become void for promary production from the same and the lease terminate or become void for promary production from the same and the lease terminate or become void for promary production from the same and the lease terminate or become void for promary production from the same and the lease terminate or become void for promary production from the same and the lease terminate or become void for promary production from the same and the lease terminate or become void for promary production from the same and the lease terminate or become void for promary production from the same and the lease terminate or become void for production from the same and the lease terminate or become void for production from the lease terminate or become void for production from the lease terminate or become void for production from the lease terminate or become void for production from the lease terminate or become void for produ

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 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:

This insturment prepar Union Drilling, Inc	But	Lough Lawson
Y: Sease & Heffens This insturment prepar	John L	
Y: May by fillen		awson
Y: This insturment prepar	LESSEE	
Y: May by films  This insturment prepar	LESSEE	
Y: Stage & Alfred This insturment prepar		
Y: Stage & Alfred This insturment prepar		
	1 All	
Union Dailling Inc	ed by Janus Bully 11	
outon pritities ine	U	
P. O. Dr # 40		
Buckhannon, W. Va	. 26201	
My commissions expires: the Notary Public, Florida, State at 1	Notary Public	Record
lay of My Commission Expires December  Roaded thru Jedco Insurance'A	\$6uct.   \$ 1ap4	Σ
Cl	erks Office, County Court, Lewis	County, Bs.
_	February 2nd 19 82 The foregoing writing	
	gether with the certificate ther y presented in said office and	reto annexed was this
	Attest: Mary	X/1/.04
STATE OF	, _/Varyt	( Vall
COUNTY OF		
The foregoing instrument was	acknowledged before me this	day of
9, by		09/29/2023

day of



OIL & GAS DIVISION
DEPT. OF MINES



## State of Mest Airginia

Department of Mines Wil und Gas Division

Date	December 21,1983	_
Operat		
Well N	lo. 1-1721	
Farm	Lough Heirs #1	
API No	. 47 - 041 - 3384	

WELL OPERATOR'S REPORT

## DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

				llowx/)
LOCATION: Elevation: 1229' Watershed			Poznok	70
District: Court House County L	ewis	Quadrangie	ROBITOR	
COMPANY Union Drilling, Inc			e ej	ili viga dise.
ADDRESS P.O.Drawer 40, Buckhannon, WV 26201	Casing	Used in	Ieft.	Cement
DESIGNATED AGENT Joseph C. Vanzant, Jr.	2	Drilling		fill up Cu. ft.
ADDRESS P.O.Drawer 40 Buckhannon, Wv 26201		1022223		
SURFACE OWNER Denzil & Elma Bailey	20-16			
ADDRESS P.O.Box 341 Weston, WV 26452	Cond. 11 3/4 13-10"	30'	mo F and Sh	
MINERAL RIGHTS OWNER See Attached Sheet	9 5/8	30		
ADDRESS		1092.55		354 cf
OIL AND GAS INSPECTOR FOR THIS WORK	8 5/8		- MA	
Robert Bates ADDRESS 109 Minnich St. Weston	5 1/2			C.los
PERMIT ISSUED September 14,1983	3 1/2	4500 45	7	450 SKS
DRILLING COMMENCED 9/26/83	4 1/2	4598.45	Shale	190 31
DRILLING COMPLETED 10/1/83			77.75	
IF APPLICABLE: PLUGGING OF DRY HOLE ON CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED ON	Liners used			
GEOLOGICAL TARGET FORMATION Alexander	c	Dep	oth 450	o' feet
Depth of completed well 5101' fee				
Water strata depth: Fresh 97',390 fee				
Coal seam depths: 87',579', 713' 876'				e area? X
OPEN FLOW DATA		and dor	+h	foot
Producing formation Balltown, Benson	Pa	ay zone del	4449	Ph1 /d
Gas: Initial open flow 103 Mcf/	d 011: 11	intial oper	i iiow	Bb1/d
Final open flow 919 Mcf/	/d Fi	inal open i	LIOW	BD1/U
Time of open flow between i				
Static rock pressure 1050 psig(sur		ement) alte	21 24 no	ours shut in
(If applicable due to multiple complete		,	00/	00/0000
Second producing formation_	P	ay zone de	pth 09/	29/2023 eet
Gas: Initial open flowMcf				
	/d Oil: F	inal open	flow	Bb1/d
Final open flow Mcf				
Final open flow Mcf.  Time of open flow between .  Static rock pressure psig(sur	initial and	final test	sh	nours

DISTRICT WELL INSPECTOR

Form 26 2/16/82

#### STATE OF WEST VIRGINIA

#### DEPARTMENT OF MINES

OIL AND GAS WELLS DIVISION

#### INSPECTOR'S PLUGGING REPORT

design retain in until a consider a consideration or consideration of the consideration of th						
COMPANY			ADDRESS	The state of the s		
FARM		DISTRICT		COUNTY		
Filling Material Used						
Liner Lo	eation	Amount	Packer	Location		
PLUGS USED A	ND DEPTH PLACED		BRIDGES	CASIN	G AND TL	JBING
CEMENT-THICKNESS	WOOD-SIZE	LEAD	CONSTRUCTION-LUCATION	RECOVERED	BIZE	Lo
					A STATE OF THE PARTY OF THE PAR	
		. 0				
		-930				
i, il encor tel d			The same of the sa	* - IV I's		
	man is an investor to prove order					7.5.1
			were a system of the state of	A Commission of the Commission	e mage an 19	
		marries to	35575.1. 28 aB	200000000000000000000000000000000000000		
	and a sequence	anivasa m				
	S. T.A. CIC MINT	KOOONIA I	v province at a section			
	service soft		7582			
Drillers' Names	n made and	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1				
Angerman and an angerman and a						
Remarks:						
		23.5%				
				00/0	0/000/	0
				09/2	9/2023	3

#### STATE OF WEST VIRGINIA

#### DEPARTMENT OF MINES

OIL AND GAS WELLS DIVISION



## INSPECTOR'S WELL REPORT

Permit No. Lew-3384

OIL & GAS DIVISION
DEPT OF MINES

			(KIN	01
Company Union Drilling, Inc	CASING AND TUBING	USED IN DRILLING	LEFT IN	PACKERS
Address Buckhannon W.V.	Size	and the second s		in section that the least
Farm Denzil Bailey	16			Kind of Packer
Well No. 1-1721	13		The state of the s	Size of
District Courthouse County Lewis	81/4			
Drilling commenced 9-26-83	6%			Depth set
Duillian completed	5 3/16			
Drilling completedTotal depth	3			Perf. top
Date shotDepth of shot	2			Perf. bottom
Initial open flow/10ths Water in	_Inch   Liners Used			Perf. top
Open flow after tubing/10ths Merc. in	Inch	and the second second		Perf. bottom
VolumeC	tu. Ft. CASING CEMEN	NTED PE	_SIZE /09	2 No. FT. 9-28-83 Date
Rock pressurelbs	_hrs. NAME OF SER	VICE COMPA	Y Hallibe	irton 300 sacks
Oilbbls., 1st 2-	The second secon			FEETINCHES
Fresh water 97' feet		INCH	es 713-717	FEETINCHES
Salt waterfeet	1			FEETINCHES
Drillers' Names	and the second second second second second second			
Union	Drilling rig \$ 5			
Remarks:	J			
0 1 2363				
Dusting at 3757'				

#### STATE OF WEST VIRGINIA

#### DEPARTMENT OF MINES

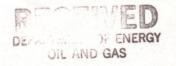
OIL AND GAS WELLS DIVISION

## INSPECTOR'S PLUGGING REPORT

					1 No	
OMPANY			ADDRESS			
ARM	Miles and parts	DISTRICT	EFFERENCE CO.	OUNTY		
lling Material Used			6018			
ner Loc	eation	Amount	Packer	Location		
PLUGS USED A	ND DEPTH PLACED		BRIDGES	CASIN	G AND TU	BING
CEMENT-THICKNESS	WOOD-SIZE	LEAD	CONSTRUCTION-LOCATION	RECOVERED	BIZE	LOST
		-				
	1		STANK I			
			er en			
				3.81		
7						
						\$00 har
			And Land with			
				-		
		CARRYTHIC HEES CL	Maria de la Maria de la Companio del Companio de la Companio del Companio de la C			
		eropitale ko	CONTRACTOR STORY			
					-	
		MUMBER . AT	ST CALLS TO ANNUAL SET LEGISLAND		2	
area estado	ark i Errya f		1.793	1994 20 444		
lers' Names						
narks:	A CONTRACTOR OF THE STATE OF TH	and the second second				

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





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

	May 30	, 1984	
COMPANY	Union Drilling, Inc.	PERMIT NO 0	41-3384
P. 0.	Drawer 40	FARM & WELL NO	Lough Heirs #1-1721
Buckh	annon, West Virginia 26201	DIST. & COUNTY	Courthouse/Lewis
RULE	DESCRIPTION	YES	COMPLIANCE NO
23.06 25.04 25.03 16.01 15.03 15.02 15.01 15.04 15.05 23.02 25.01 23.04 23.05 23.07 16.01 16.02 7.05	Notification Prior to Starting We Prepared before Drilling to Preventing High-Pressure Drilling Required Permits at Wellsite Adequate Fresh Water Casing Adequate Coal Casing Adequate Production Casing Adequate Cement Strenght Cement Type Maintained Access Roads Necessary Equipment to Prevent Wellside Requirements for Production & Garwell Records on Site Well Records Filed Identification Markings	aste	
	NSPECTED THE ABOVE CAPTIONED WELL  1 record was received and reclamate	SIGNED Steel	20 Casas
with Cha	pter 22, Article 4, Section 2, the for the life of the well.	Administrator-0	in under bond il & Gas Division 17, 1986



JAN 7 1986

einferie igner in deter Adaer in handaupe General och och 189 Och och och 189

section for the section of the secti

Enic Casin

22 37 25

And a second of the second of

# 1556-C

## OIL & GAS LEASE

< f-	Lease No. 1556C
THIS AGREEMENT, made this day of # his ary	, $19_{52}$ , by and
between Oby Lewis Lough, Jr. and JACKIE S. Lough, his wife	
octwoon	
Lessors and parties of the first part, hereinafter called "LESSOR" and UNION DRILLING, INC 40, Buckhannon, West Virginia, 26201, party of the second part, hereinafter called "LES	s., a corporation, P. O. Drawer SEE'',
WITNESSETH: For and in considerarion of the sum of One Dollar (\$1.00), paid by receipt of which is hereby acknowledged and of the covenants and agreements herein contain lease, demise and let unto the Lessee, for its exclusive possession and use, for the purpos producing, removing and marketing oil and gas, or either of them, and/or their constituent methods now known or hereafter discovered, all of that certain tract or parcel of land a	ed, Lessor does hereby grant, e of exploring, operating for, s and related by-products, by
Courthouse District, Lewis County, West Virginia tially as follows:	, bounded substan-
On the North by Lon Sims	
On the East byJasper 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 ga	as acquired by the Lessor by
This lease is made upon the following terms, rents, covenants and conditions, all or	f which are a seried to the

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 rormations 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 <u>three (3)</u> 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 amount of the primary terms of the 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 primary terms of the lease terminate or become void for non-payment of delay rentals.

# 1556-01

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:

- 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 & Aby Levis Loub Ou

#1556 15

## OIL & GAS LEASE

OIL & GAS LEASE
Lease No. 25 /336
THIS AGREEMENT, made this 1913 day of June 19 82, by and between Branis I. Lough (widers)
, , , , , , , , , , , , , , , , , , ,
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 considerarion 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 County, County, County, County, County, bounded substantially as follows:
On the North by $\frac{2nn}{2nn}$ ;
On the East by Jasper Fox, S.C. Rittenhines;  On the South by Elian Stalnaker;
on the West by $\frac{1}{2}$ . Armstrag, containing $\frac{1}{2}$ acres, more or less, and being the same land and/or oil and gas acquired by the Lessor by $\frac{1}{2}$ acres, $\frac{1}{2}$ ac

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 the control of 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:

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 lease thereon.

# 1556BCD

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 Bonnia. and receipt for the following address:	same and t	to receive no	tices g	iven	by the	s agent e Lesse	of the as	he Le prov	ssor, whided her	o is ein.	here	eby app checks	ointed ag shall be	ent to maile	receive d to the
		11.036							_						

- 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.
- Juthermore, Union Drilling, Inc. agrees to drill a minimum of one gas or cit well on said leased premises before the expiration of the primary term; provided, however, that there is adequate exacing available and that there are no preducing gesor cit wells on said leased premises. This drilling commitment shall only be applicable it and only it Union Drilling, Inc. has under lease 109/29/2023
  - 12. BINDING EFFECT: This lease shall be binding upon the parties hereto, their heirs, successors and assigns: WITNESS the following signatures:

LESSOR

vviiNESS the following signatures:			
Carolyn G. Malney	LESSOR	Bonnie 2.	Louish
	LESSEE		
	LLOOLL		
UNION DRILLING? INC.///			
JNION DRILLING? INC.			
The state of the s			
)	1.11-	<del></del>	
This insturment prepared by	UZAUSIJ <u>SJ</u>		
	/ /		
TATE OF Air A MA			
TATE OF Wiref Virginia	,		
OUNTY OF Louis	, to-wit:		
The foregoing instrument was acknowledge	ed before me this	day o	1 Пини
9 82, by Bennie I. Lee	cy h		/ /
		B-7/11	
	Notary Public	D. Hill.	
My commissions expires: the	_		
ay of <u>Flugust</u> , 1991.			
MILES COLUMN OF THE	EST VIRGINIA,	T	
Clerks Office, County	Court, Lewis C	ounty, 3.88.	
The foregoing wr	19 82		
The foregoing wr	iting	the	10
together with the cert	office and adm	o annexed was that itted to record.	
Attest	MaryA	Half	_
			and the second
DUNTY OF			
The foregoing instrument was acknowledged	before me this	day of	
, by			
	Notary Public		
y commission expires: the			
y of, 19			
			00/00/0000
			09/29/2023

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

## OIL & GAS LEASE

	- or or			Lease N	o 1556F
THIS AGREEMENT, made this	8+3	day of	April		19. 2, by and
between Charles J. Lough and	DEBRA L.	Lough, l	his wife		
Lessors and parties of the first part, hereinafte 40, Buckhannon, West Virginia, 26201, part	er called "LESSO ty of the second	OR'' and UNI d part, herei	ON DRILLING, nafter called ''	INC., a corpo	ration, P. O. Drawer
WITNESSETH: For and in conside receipt of which is hereby acknowledged and lease, demise and let unto the Lessee, for it producing, removing and marketing oil and gmethods now known or hereafter discovered	of the covenants as exclusive pos gas, or either of d, all of that c	s and agreem session and f them, and/ certain tract	ents herein cor use, for the pu or their constit or parcel of la	ntained, Lesson rpose of explouents and rela and and/or oil	does hereby grant, ring, operating for, ted by-products, by and gas situate in
Courthouse District, Lewis	;	_County,	West Virg	inia	, bounded substan-
ially as follows:  On the North by Lon Sims					
On the East by Jasper Fox, S			,		
			,		
On the South by Elias Stalnak					
On the West by L. S. Armstro					
containing $1/24$ of $180$ acres, more or I	ess, and being	the same lan	nd and/or oil a	nd gas acquire	d by the Lessor by
		· · · · · · · · · · · · · · · · · · ·			
This lease is made upon the followin parties hereto:	g terms, rents,	covenants a	nd conditions,	all of which ar	e agreed to by the
are necessary or convenient for the purposes water and other fluids into the sands and form drilling, reconditioning, redrilling, completing roads, pipelines, power lines, drips, tanks, statuse in connection with operations upon the dassigns.	mations in said and operating w ions, cathodic p lemised premise	land for recovells; and gra rotection deves or upon of	overing and pr ding, construct ices, houses for ther lands own	oducing the m ing, maintaining gates, meters ed or leased b	inerals referred to; ng and using access , and regulators for y the Lessee or its
2. TERM: This lease shall remain in a sthe leased premises or any portion thereof, on the search for or production of oil or gas or oil essee or its assigns may continue to use roads ther premises, for as long as the other operation of lease.	or any land poole or gas is found s, pipelines and	ed or unitized in paying qu d other facilit	with the whole antities thereo ies, being used	or any part the n. After termin in connection	ereof, is operated in nation of this lease, with operations on
3. RENTALS AND ROYALTIES:					
The Lessee covenants and agrees	s as follows:				
(a) Production Royalty:					
(i) Oil:  To pay to Lessor, as royalty for a rilled on the leased premises, an amount equal in the tanks, pipelines or other facilities,	d to one-eighth	(1/8) of the p	rice received b	v the Lessee fr	m any well or wells om the sale of such
(ii) Gas:					
To pay Lessor as royalty for substances produced and saved from any sand price received by the Lessee from the sale of	or sands on the	e leased pren	nises, an amoui	nt equal to one	e-eighth (1/8) of the
(b) Delay Rental Payment:					
(i) To pay or tender to Lessor a annually, in advance, beginning on the date of coyalty to Lessor as provided above is drilled or delay rental paid for time beyond the date that premises shall be credited on production royalt determined by the Lessee unprofitable to oper under the terms hereof for the remainder of the rental to commence ninety (90) days after corporation from the same, whichever first occidelay rentals. However, the Lessor shall have	f this lease, and in the leased prei a well capable ty due from the wate for the prod he primary term inpletion of the urs. In no event	continue the mises or on an of yielding property well. If any property of oil of the lease plugging of a shall this lease to the shall this lease the shall the shall this lease the shall this lease the shall the shall this lease the shall the sh	reafter until a variety unit or pool is coduction royalt coducing well such gas, the Less by resuming the well or nings the terminate o	well capable of nvolving the lead to Lessor is continued to Lessor is continued to the lesson in the	yielding production ased premises. Any drilled on the leased ases to produce or is ue to hold said land ay rental, with said after termination of for non-payment of
interest thereon.		·			79/20/2023

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

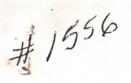
WITNESS the following signatures:

Cli Finillo

LESSOR X Mall fuel

	lease shall be binding upon the parties hereto, their heirs, successors and assigns:
WITNESS the following signs	atures:
Herdelie Jomillo	LESSOR X Charles Joseph
Laclie Lenisi	Charles J. Lough
	X Nelus of Franch ?
. 11.	Debra L. Lough
	LESSEE
UNION BRILLING, INC.	
BY: Glorye O. Nelles	
	This insturment prepared by
No No No	
Sa Conno de	
2000000	
STATE OF West Virginia	
COUNTY OF Jefferson	, to-wit:
O1 1 T T 1	acknowledged before me this seventh day of April
19 <u>82</u> , by <u>Charles J. Lough</u>	and Debra L. Lough, his wife
	Victoria modenie
	Notary Public
My commissions expires: the <u>thir</u>	
day of,	19 <u>91</u> .
	THE STATE OF WEST VIRGINIA. Clerks Office, County Court, Lewis County,
	April 12th 1982
	The foregoing writing
	together with the certificate thereto annexed was this day presented in said office and admitted to record.
	Attesti
STATE OF	Mary Holy
COUNTY OF	
	acknowledged before me thisday of
	day of,
, 0,	
	Notary Public
My commission expires: the	
day of, 1	
, , ,	

09/29/2023



## OIL & GAS LEASE

This lease is made upon the following terms, rents, covenants and conditions, all of which are agreed to by the		Lease No. 1556
between Madge Lough (widow), Raymend Lough and Toris R. Lough (his wife)  Wirginin Oer and John Ore (her hasband), 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 considerarion 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 heuse District, Lewis County, West Virginia, bounded substantially as follows:  On the North by Lon Sims  On the South by Lon Sims  On the South by Lon Sims  On the West by Los Armstrena  Containing 30f 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 AGREEMENT, made this day of day of	, 19_ <u>82</u> , by and
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 considerarion 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 Los Stalneker On the South by Lias Stalneker On the West by L.S. Armstrong  containing 30f 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. Jough.  This lease is made upon the following terms, rents, covenants and conditions, all of which are agreed to by the	between Madge Lough (widow), Raymond Lough and T	Doris R. Louch (his wit
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 Lon Sims  On the South by Lias Stalnaker  On the West by L.S. Armstrong  containing 30f 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	Virginia Orr and John Orr (her husband), Clyde L. Jewel .	and Alice Jewel
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 Lon Sims  On the South by Lias Stalnaker; On the West by L.S. Arm strong  containing 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	40, Buckhannon, West Virginia, 26201, party of the second part, hereinafter called "LESS	, a corporation, P. O. Drawer EE'',
On the South by Elias Stalnaker; On the West by L.S. Arm strong, containing 13 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	lease, demise and let unto the Lessee, for its exclusive possession and use, for the purpose producing, removing and marketing oil and gas, or either of them, and/or their constituents methods now known or hereafter discovered, all of that certain tract or parcel of land ar Court house District, Lewis County, west Virginia tially as follows:	d, Lessor does hereby grant, of exploring, operating for, and related by-products, by nd/or oil and gas situate in
On the West by L.S. Arm strong, containing 13 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	/ /.	
This lease is made upon the following terms, rents, covenants and conditions, all of which are agreed to by the		
This lease is made upon the following terms, rents, covenants and conditions, all of which are agreed to by the	containing 13 of 180 acres, more or less, and being the same land and/or oil and gas	s 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:	The state of the s	
This lease is made upon the following terms, rents, covenants and conditions, all of which are agreed to by the parties hereto:		
1 PIGHTS OF LESSEE: Lesses shall have all sights and the	parties hereto.	which are agreed to by the

- 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 states 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, he can arrive assigns may continue to use reads, pipelines and other facilities, being used in connection with aperations on 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.

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 Handred 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 upder the terms bereaf for the promisery term of the lease by recurring powers to delay the terms bereaf for the promisery term of the lease by recurring powers to delay the terms bereaf for the promisery term of the lease by recurring powers to delay the terms because the delay to the lease of th 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 sentals. However, the Lessor shall have the right of action against the Lessee for the amount of the Oplay 942023 d interest thereon.

# 1556

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:

	ments hereunde												
to <u>all of the</u> and receipt for the same following address:	and to receive	notices give	en by the	s agent e Lesse	of the as	ne Le prov	ssor, whided he	no is rein.	here	eby app checks	ointed ag shall be	ent to mailed	receive d to the
							_						

- 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 &piration 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% intestest 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 Madge Lough

12. BINDING EFFECT: This lease shall be	e binding upon	the parties hereto, the	eir heirs, succes	sors and assigns:
WITNESS the following signatures:				
Virginia E. Orr	LESSOR	madge	Lough	
Calm IV Clir		- Elyle L. q	lewell	
		Olice Value	ell.	0
		& alman	1714	
		Whis >	Lough.	,
	LESSEE			
UNION DRILLING, INC.				
BY: //www/// www.com				
0	1			
This insturnemt prepared by	ny Gelly!	11/		
	1	1		
STATE OF West Virginia				
COUNTY OF Lewis	to-wit			
The foregoing instrument was acknowledge	d before me this	19 th do	y of Janua	ra
19 82, by Madge Lough	a before me tine	,	7	
, 5, 7, 2, 7,	0			
		-17-11	20	
	Notary Publi	w. B. The	" and	
My commissions expires: the		- /-		
day of Hughet, 19 91.				
*				
STATE OF West Kinginia				
COUNTY OF LEWIS	, to-wit	:		
The foregoing instrument was acknowledged	d before me this	14 th	y of Janes	, 4/
19 82, by Chyde A. Janella	al Alie	Acrell		·
	1/1	B 7/1		
	Notary Publi	B. 7/1/		
My commission expires: the	_	/		
day of fraguet, 19 91.				
			0	0/20/2022
			U	9/29/2023

STATE OF West Virginia,
COUNTY OF Lewis, to-wit
The foregoing instrument was acknowledged before me this 1974 day of
19 82, by John W. Orr and Virgini E. Orr
Notary Public B. Milling
My commission expires: the
day of August, 19 5/.
STATE OF West Wiry in in
COUNTY OF, to-wit:
The foregoing instrument was acknowledged before me this 19th day of January,  19 f2, by Taylord V. Long L. C. Davis Ling L.
19 f2, by Tupmed V. Long L and Davis Ling L
Notary Public P. Vel
My commission expires: the 2041
day of Aug. + , 19 <u>9/</u> .
Clerks Office, County Court, Lewis County, 188.
January 21st 1982
The foregoing writing
together with the certificate thereto annexed was this day presented in said office and admitted to record.
Attest:
- Mary A. Holl
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 to the completed by
, 20201. To be returned after recording to last named party
EXAMPLE II I I I I I I I I I I I I I I I I I
J. SIMFIT
Oh. 19.  Case   19.  19.  19.
ALIMIN Gas Gas ATION ATION
No
No.
Oi o A A A A A A A A A A A A A A A A A A
No No No No Oil an Oilstrict In Book INDE
II
09/29/2023

OIL & GAS LEASE
Lease No. 1556 th
THIS AGREEMENT, made this 15th day of February, 19 52, by an
notween Thomas Flouris Allinia in March 1 1 11 11 11 11
Delween - Hough and VIFGINIA MILLOUGH HIS WITE / Allice R. Lough
widow, Frank Lough and Maxine Lough his wife Alice R. Lough
Lessors and parties of the first part, hereinafter called "LESSOR" and UNION DRILLING, INC., a corporation, P. O. Drawe 40, Buckhannon, West Virginia, 26201, party of the second part, hereinafter called "LESSEE",
WITNESSETH: For and in considerarion 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 methods now known or hereafter discovered, all of that certain tract or parcel of land and/or oil and gas situate in the control of land and/or oil and gas situate in the control of land and/or oil and gas situate in the control of land and/or oil and gas situate in the control of land and/or oil and gas situate in the control of land and/or oil and gas situate in the control of land and/or oil and gas situate in the control of land and/or oil and gas situate in the control of land and/or oil and gas situate in the control of land and/or oil and gas situate in the control of land and/or oil and gas situate in the control of land and/or oil and gas situate in the control of land and/or oil and gas situate in the control of land and/or oil and gas situate in the control of land and/or oil and gas situate in the control of land and/or oil and gas situate in the control of land and/or oil and gas situate in the control of land and/or oil and gas situate in the control of land and/or oil and gas of the control of land and/or oil and gas of the control of land and/or oil and gas of the control of land and/or oil and gas of the control of land and/or oil and gas of the control of land and/or oil and gas of the control of land and/or oil and gas of the control of land and/or oil and gas of the control of land and/or oil and gas of the control of land and/or oil and gas of the control of land and/or oil and gas of the control of land and/or oil and gas of the control of land and/or oil and gas of the control of land and/or oil and gas of the control of land and/or oil and gas of the control of land and/or oil and gas of the control of land and/or oil and gas of the control of l
<u>Courthouse</u> <u>District, Lewis</u> <u>County, West Virginia</u> , bounded substan
tially 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 loss and being the
containing 1/3 of 180 acres, more or less, and being the same land and/or oil and gas acquired by the Lessor by heir father, George Lough
, and the Bodgii
This lease is made upon the fall of
This lease is made upon the following terms, rents, covenants and conditions, all of which are agreed to by the arties hereto:
1. RIGHTS OF LESSEE: Lessee shall have all rights, privileges and rights of way possessed by the Lease this
re necessary or convenient for the Lessee shall have all rights, privileges and rights of way possessed by the Lessee

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, drilling, reconditioning, redrilling, completing and operating wells; and grading, constructing, maintaining and using access use in connection with operations upon the demised premises or upon other lands owned or leased by the Lessee or its

2. TERM: This lease shall remain in force for a term of Three (3) years from date hereof, and as long thereafter the search for or production of oil or gas or oil or gas is found in poving quantities thereof. 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 promises, for as long as the other operations are being conducted. Lessee shall have right to remain the operations and other premises, for as long as the other operations are being conducted. Lessee shall have right to remove its equipment and

#### 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.

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 premises shall be credited on production royalty due from the well. If any production royalty to Lessor is drilled on the leased determined by the Lessee unprofitable to operate for the production of oil or gas, the Lessee may continue to hold said land rental to commence ninety (90) days after completion of the plugging of the well or ninety (90) days after termination of delay rentals. However, the Lessor shall have the right of action against the Lessee for the amount of the plugging of the wellow or the amount of the plugging of the amount of the plugging for the amount of the plugging of the amount of the plugging for the plugging 1556th

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 payr	ments hereunder may be made direct to the Lessor or by	check payable and mailed
and receipt for the same following address:	and to receive notices given by the Lesse as provided herein. All	eby appointed agent to receive I checks shall be mailed to the
3	Frank Lough	gh and or Maxine Lough 136-2, Buckhannon, W.Va.
to the following persons	Alice Lough, widow,	26201
her sous	Rt #2, Bx 109 , Weston, W.Va. 2645	

- 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:

LESSOR Thomas & Lough

WITNESS the following signatures:		h.O	. 7
Thomas Lough. 233-3-0-5313	LESSOR	Thomas F &	ough
		Virginia M.	Laugh
Frank Lough. 232-24-0367		allee R. Low	ich.
		Frank For	agli
Alice Lough, 236-68-1460	_	Trusine 1	ment.
	LESSEE		1
UNION DRILLING PINC			
BY: Mellar Hamplill			
	1.11.11		
This insturment prepared by	PANITH		
		λ.	
STATE OF West Virginia			
COUNTY OF Lewis	,		
	, to-wit:	1145	7.1
The foregoing instrument was acknowledged		day of -	February
1981, by Thomas F. Lough, Vin	ginia M.	Lough, and Al	ICO K. Lough
	1		
	Mora	R. Hell.	
	Motary Public		
My commissions expires: the 20±3	_		
day of <u>Hugust</u> , 19 <u>91</u> .			
V			
STATE OF West Virginia			
COUNTY OF Lewis	,		
	, to-wit:	12-45	11
The foregoing instrument was acknowledged 19 82, by Frank Lough and	before me this_	day of _	Pebruary
19 02, by Trank Lough and	Maxin	1 Lough	
	1	- /	,
	(Nem	R. 7/11	
0046	Notary Public	7/2/20	
My commission expires: the			
day of <u>August</u> , 19 <u>91</u> .			
			09/29/2023

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

	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	EST VIRGINIA, County, Iss.
	day of	4h 19 82
	The foregoing wr	iting
,	day presented in said	ificate thereto annexed was the office and admitted to record.
	Attest	* M X X/ DI
		11 pary taer
	This agreement prepared by Robert J. Wallace, Attorney at Law, Buckhannon, WV, and of Union Drilling, Inc., P. O. Drawer 40, Buckhannon, WV 26201. To be returned a	completed by George B. Hoflin
(	of Union Drilling, Inc., P. O. Drawer 40, Buckhannon, WV 26201. To be returned a	after recording to last named party.
	/	
	• / / · · · · · · · · · · · · · · · · ·	.e1 .e2
		2 A A
		Page 1800 AGE 322 Y. W. VA.
	то то	DEED PAGE ITY. 1
	Pg * 07\	IN D UNIT PED
	Oil and Gas Lease FROM TO TO TO TO LOCAPTON	for Reco
	Oil a Date	Received for Record  Recorded  Recorded  NECORDED IN DEED BOON  NO. 402 PAGE 32  NO. 402 PAGE 32  FEB 1: 1982
	Number District	Received f Recorded.  Recorded.  Recorded.
		<sup>2</sup>

1506-21

# OIL & GAS LEASE

THIS AGREEMENT made this	Lease No. 1556G
THIS AGREEMENT, made this day of day of	78bruary , 19 82, by a
Lessors and parties of the first part, hereinafter called "LESSOR" and UNION 40, Buckhannon, West Virginia, 26201, party of the second part, hereinal WITNESSETH: For and in consideration of the sum of One Dollar receipt of which is hereby acknowledged and of the covenants and agreement lease, demise and let unto the Lessee, for its exclusive possession and use producing, removing and marketing oil and gas, or either of them, and/or methods now known or hereafter discovered, all of that certain tract or Courthouse	N DRILLING, INC., a corporation, P. O. Draw after called "LESSEE",  r (\$1.00), paid by the Lessee to the Lessor, the sherein contained, Lessor does hereby grante, for the purpose of exploring, operating for their constituents and related by-products, be parcel of land and/or oil and gas situate in the straightful west Virginia, bounded substantial terms and the straightful west virginia.
On the West by <u>L. S. Armstrong</u> ontaining <u>1/15 of 180</u> acres, more or less, and being the same land ar her husband, Clyde Lough	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

- 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, 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
- 2. TERM: This lease shall remain in force for a term of <u>three (3)</u> 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, 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 rilled on the leased premises, an amount equal to one-eighth (1/8) of the price received by the Lessee from the sale of such il 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 ubstances produced and saved from any sand or sands on the leased premises, an amount equal to one-eighth (1/8) of the crice 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 Fight and no/100---- (\$ 48.00) noually, in advance, beginning on the date of this lease, and continue thereafter until a well capable of yielding production belay 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 needed to operate for the primary term of oil or gas, the Lessee may continue to hold said land not not to commence ninety (90) days after completion of the plugging of the well or ninety (90) days after Completion of the plugging of the well or ninety (90) days after Completion of the plugging of the well or ninety (90) days after Completion of the plugging of the well or ninety (90) days after Completion of the plugging of the well or ninety (90) days after Completion of the plugging of the well or ninety (90) days after Completion of the plugging of the well or ninety (90) days after Completion of the plugging of the well or ninety (90) days after Completion of the plugging of the well or ninety (90) days after Completion of the plugging of the well or ninety (90) days after Completion of the delay rental and the completion of the delay rental and elay rentals. However, the Lessor shall have the right of action against the Lessee for the amount of the delay rental and

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 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 lease terminate or become void for non-payment of shut-in royalty. However, the Lessor shall have right of action against the 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 free gas when and as long as Lessee may elect to produce or operate a well on the aforesaid leased premises. Lessor shall be entitled to receive the 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 designated point of connection. Gas shall be used at Lessor's own risk. Lessee shall not be liable for any interruption or reason whatsoever. If more than two hundred thousand (200,000) cubic feet per year is used, the excess shall be paid for by in excess of said two hundred thousand (200,000) cubic feet, Lessee is hereby authorized to deduct the amount thereof from the surface, then Lessee may furnish the free gas to the surface owner at its election, but, in such event, Lessor shall not be 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:

to		Lough	hereunder													
and r	eceipt for the ving address:	same and to	o receive no Liberty	tices g Stree	iven b	, as y the	s agent e Lesse	of the as	ne Le prov	ssor, whided her	no is rein.	here	by app checks	ointed age shall be	ent to mailed	receive d to the
			ersburg,	WV	2610	1				_						
		SS#	1							_						

- 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 produced and the pooled acreage in the marketed from the pooled area an amount equal to the proportion that Lessor's acreage placed in the pooled area bears to the
- 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 loo% ownership of the oil and gas. If Lessor owns less than a 100% interest in the oil and gas, the rental, royalty and ental, 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 ssignment 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, evertheless, 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 ne gas or oil well on said leased premises before the expiration of the primary term; rovided, however, that there is adequate spacing available and that there are no producing
- as or oil wells on said leased premises. This drilling commitment shall only be applicable as or our werrs on Saru reason promises.

  E and only if Union Drilling, In. has under lease a 100% interest in the oil and gas 09/29/2023

	LESSOR X	Mildred Lough	Leugh.
	LESSEE		
INION PRILLING, INC. BY: Along B. Beffer			
STATE OFWest Virginia			
The foregoing instrument was acknowledge g R2, by Mildred Lough	, to-wit: d before me this	day of _	Florenzy
$\mathcal{L}$	Notary Public	J Hann	an
Ay commissions expires: the 1885.	_		
TATE OF	,		
OUNTY OF			
The foregoing instrument was acknowledge	d before me this	day of _	
9, by			
	Notary Public		
My commission expires: the	-011		
ay of, 19			
			09/29/2023

## OIL & GAS LEASE

Lease No. 1556-F
THIS AGREEMENT, made this day of, 19, 19
betweenNora E. Groves, widow
Lessors and parties of the first part, hereinafter called "LESSOR" and UNION DRILLING, INC., a corporation, P. O. Drawe 40, Buckhannon, West Virginia, 26201, party of the second part, hereinafter called "LESSEE",
WITNESSETH: For and in considerarion 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
<u>Courthouse</u> <u>District, Lewis</u> <u>County, West Virginia</u> , 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 <u>three (3)</u> 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, because 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.

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 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 9429/2023 and The capable of the plugging of the well or ninety.

Paid 1styr.

The capable of yielding production and not production of the lease of the production of the leased premises. Any delay for non-payment of the plugging of the well or ninety (90) days after termination of delay-rentals. However, the Lessor shall have the right of action against the Lessee for the amount of the plugging of the plugging of the well or ninety (90) days after termination of the plugging of the well or ninety (90) days after termination of delay-rentals. However, the Lessor shall have the right of action against the Lessee for the amount of the plugging of the plugging of the well or ninety (90) days after termination of the plugging of the well or ninety (90) days after termination of the plugging of the well or ninety (90) days after termination of the plugging of the well or ninety (90) days after termination of the plugging of the well or ninety (90) day

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 useage over the free gas limit.

#### (e) Manner of Payment:

All pa	ments hereunder may be made d	irect to the Lesson	or by	check payable	and mailed
to Nora Elizabet	h Croves	ment of the Lesson w	ho is hor	oby appointed a	gont to warely
	312 South River Avenue	S.8	S. No 23	35-62-4641	
	Weston, West Virginia 264	152			

- 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:

Futher 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 evailable and that there are no producing gas aroil wells on said leased premises. This drilling commitment shall only be applicable if and only it 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:

		binding upon	the parties heret	o, their heirs, successors	and assigns
WITNESS the follow	ing signatures:	1.5000B	/	6	7
		LESSOR	X//	E Amabathe F	lacur
				1/	
		LESSEE			
UNION DRILLING, INC.					
BY: Soupy Cam	phell	-			
ais agreement proposed by Deb	out I Mallon Attorno				D 11 C1 1
nis agreement prepared by Rob Union Drilling, Inc., P. O. D	rawer 40, Buckhannon	y at Law, Buck , WV 26201.	To be returned	d completed by <u>George</u> after recording to last n	B. Heflin amed party.
STATE OF West Virgini	a	,			
COUNTY OF Lewis		, to-wit:		1.1	
	nent was acknowledged b	before me this	13+1	_day of April	
9 82, by Nora El	izabeth Groves, w	idow			
		0			
		//	0-11		
		Notary Publi	B. Ny	là:	_
My commissions expires: the	20+1	, , , , , , , , , , , , , , , , , , , ,			
day of August					
day of flagus	THE COLO	שבמש שם שיי	VIDCINIA	_	
	Clerks Office,	County Cou	VIRGINIA, rt, Lewis Cou	nty. ss.	
	April 1.	5+h	19 82		
			ng		
				annexed was this	
	day presented i				
STATE OF		Attest	m x	4/01-	
STATE OF			auf !	Hall	
COUNTY OF			//		
				day of	
				day of	
9, by					
		Notary Public	0		
My commission expires: the _					
av of	10				

09/29/2023

# 1556-1

## OIL & GAS LEASE

	Lease No. 1556E
THIS AGREEMENT, made this day of February	874, 19 $52$ , by and
Detween Robert Page Lough and Geralyn N. Lough, his wife	
Lessors and parties of the first part, hereinafter called "LESSOR" and UNION DRILLIN 40, Buckhannon, West Virginia, 26201, party of the second part, hereinafter called	NG, INC., a corporation, P. O. Drawer
WITNESSETH: For and in considerarion of the sum of One Dollar (\$1.00), receipt of which is hereby acknowledged and of the covenants and agreements herein lease, demise and let unto the Lessee, for its exclusive possession and use, for the producing, removing and marketing oil and gas, or either of them, and/or their consmethods now known or hereafter discovered, all of that certain tract or parcel of	contained, Lessor does hereby grant, purpose of exploring, operating for, stituents and related by products, by
<u>Courthouse</u> District, <u>Lewis</u> County, <u>West Vi</u>	
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 condition parties hereto:	s, all of which are agreed to by the

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 tormations 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:

 $\overline{\iota}$ o 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---(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 production interest thereon. interest thereon.

# 1556-E CO

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:

- 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:

12. BINDING EFFECT: This lease sha	ll be binding upon	n the parties hereto, their heirs, successors and assign
WITNESS the following signatures:		· ·
	LESSOR	x Relat Page Tough
		Robert Page Lough
		X July n T. Lrugh
	LESSEE	
UNION DRILLING, INC.		
BY: Change R Hill		
	1.11	the state of the s
This insturment prepared by	mle Billy 11	
Union Drilling, Inc		
P.O. Dr # 40		
Buckhannon, W. Va. 26201		
STATE OF Missouri	,	
COUNTY OF <u>C/Ay</u>	, to-wit:	: 70 th
The foregoing instrument was acknowled	dged before me this	is 29 day of JANUARY
19 82, by Robert Page Lough and G	eralyn N. Lough,	, his wife
- 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.		
7	Lon	ida Veese
LINDA J. HEESE	Notary Publi	lic
My commissions Publice States Missouri		
Commissioned in Clay County day of My Commission Expires Feb 25, 19819		
01	THE STATE OF	F WEST VIRGINIA.
Clerks	Office, Count	ty Court, Lewis County, ss.
	bruary 200	
togethe	The foregoing er with the ce	writingertificate thereto annexed was this
day pro	esented in sai	id office and admitted to record.
	Atte	Mary K. Holt
STATE OF		Mary Holk
COUNTY OF		
		sday of
19, by		
	Notary Publi	ic.
My commission expires: the		
day of, 19		

09/29/2023

