1)	Date:	June 20	, 19_83
1)	Date	Outic Lo	, 19

2) Operator's Well No._

WI - 010 (rev) 47 105 1079 3) API Well No. 47

RILLING CONTR	ACTOR:					TE OF WEST VIR		State	County Perm
earthcare san dal	ipe i di ini	erb to	DE					ed out by office	
arto nalificación	ma le H	mer adi		OIL A	AND GAS	WELL PERMIT	APPLICATION	radional mana	m Tious (A)
4) WELL TYPE:	A Oil	lbigi, te	/ Gas X	x	Lyws	as" nieuns all n	Crescivoles: "G	aves undergroup	alter it le
									/ Shallow XX/)
5) LOCATION:	与化公司已要为1000000000000000000000000000000000000						Otter Run		rottada" (Gr
O WELL OPEN								Quadrangle:	
6) WELL OPERA Address			ce Squ			it is the beginning		P.O. Box 235	
Address			WV.			trags then a ket		Culloden, 25!	
7) OIL & GAS								ell is docated	S) Where w
ROYALTY OV					TEG VO	12)	COAL OPERAT	OR N/A	A Refore a
Address			d Lake chigar			398	Address _	DETOE SELL COLON I	13791812575
Acreage	79	ea, m	Cirryar			13)	COAL OWNER	(S) WITH DECLAR	ATION ON RECORD:
S) SURFACE OW	A STATE OF THE STA	erbert	Wilso	n			Name N/		THOM ON ALCOND.
Address	same	as abo	ve		4.2	(2001)	Address _	TP LOTAN CLEOKY RIV	entochia etc
							_		IsnongO (%
Acreage	_45					100	Name	Tanishing 16.1	(1) Soc Res.
) FIELD SALE	(IF MADE	E) TO:				girlare runer a	Address	about "agisted	O Iso 22 (C)
Address							Carlotte and the	WITH DECLARAT	ION ON RECORD.
O) OIL & GAS IN	SPECTO	R TO BE	NOTIFIE	D		14)	Name N/A		ROBINITE
Name Mr.	Deo Ma	ce				The second second	Address	1)81	S CERAL
Address	Rt. 1	Box 5	D3 DBIIII)	Jen sc		Form IV Z sig		S S S S S S S S S S S S S S S S S S S	A TOWN OF (C)
A MAINE OF NO.	Sam d	Ridge	, WV	d with	1000		geting is so Be pa calons the pewaith.	00	JUL - 1 1983
) PROPOSED V						/ Redrill_		ure or stimulate	
						/ Perforate ne	ew formation	of no varino bal	
GEOLOGICA								SUBTO PROPERTY.	OIL & GAS DIVISIO
							iter, and shallor	O Des Fres No.	FT OF WILL
19) Approxim	ate coal sea	am depths	:N/	'A		Is coal	being mined in the a	rea? Yes	/ No_XX
) CASING AND	TUBING	PROGRA	AM	LALEC	7-6-00	ABOTO HAR		n ngorqigillaso i	20) Propers
CASING OR			CIFICATION		.			CEMENT FILL-UP	
TUBING TYPE	Size	Grade	Weight per ft.	New	Used	For drilling	Left in well	OR SACKS (Cubic feet)	TO A PARTY LIFE
Conductor	13			X		50	50	to surface	Kinds
Fresh water	9 5/8	y where	muos la	X	de distr	300	300	to surface	by Rule 15.05
Coal	Emphis	ton Inu	opitiqo	3 (10)	Lancs	licases or othe	r os secreta (in)	a holfer filmsbirg	Sizes
Intermediate	7			X	15000	2000	2000	to surace	h
Production	41/2	er ens de	10.5	X	00 00 10	4850	4850	250 sks	Depths set OR US RES
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- 44			Ph. 5.9				39707	- Sarbing (10) the be-	7000 (a.a.
(V-2 must be	prod to	esimos n	of the	erigi	o.sdi s	ses gravides thi	tM to insurate	on Aug or the D	43) Regula
1) EXTRACTION			N Fee bed	kiüza1	0.000	(f) a plat in the	ocompanied by		
						r in lieu thereo.		is presented by I	the lorn
						See reverse side for		right to extract oil or	gas.
2) ROYALTY PR			, T (c) (1	,	B. (-).	See Teverse side 10	and the same of the same	TO BIRG VISUOLYS	
Is the right to e	xtract, pro	duce or m	arket the c	il or ga	as based u	pon a lease or othe	r continuing contrac	t or contracts providi	ng for flat well royalty or
similar provision				vner of	f the oil o	or gas in place whi	ch is not inherently	related to the volun	ne of oil or gas so extract
				eeded.	If the an	swer is Yes, you m	nay use Affidavit Fo	orm IV-60.	
3) Required Copie	es (See rev	erse side.)							tie ayab
									ivered by hand to the about to the Department
Mines at Charle				ressee	011 01 001	ore the day or the	~0	01 2	0 1 4
Notary:	f laco, ac	150 40	laðs yna	vel is	ur do la	iogo leo Jostavi	Signed: Ma	ellon 60	Koberto
My Commission	Expires	diw La	nest an o	4 11 11	ne perm	4 224-20, 11	Its: Geol	ogist	s and other
My Commission	LAPITES						4001	og is	and stab
						FFICE USE O			
	4	7-105-	1079		DI	RILLING PER	MIT	July	60/20/2023
ermit number		house					TORWO	Dat	19/29/2023
This permit coverin	g the well	operator	and well lo	ocation	shown b	elow is evidence o	f permission grante	d to drill in accordan	ce with the pertinent legal
uirements subject	to the con-	ditions co	ntained he	rein ar	nd on the	reverse hereof Not	ification must be gi	ven to the District Oi	il and Gas Inspector. This contractor shall notify
proper district oil a	nd gas ins	pector 24	hours before	ore acti	ual permi	tted work has com	menced.)	i, the well operator of	204011400 281 1018190
		y 6, 1							prosecuted with due dilige

functions subject to the conditions contained herein and on the re-	The same of the sa
Refer to No. 10) Prior to the construction of roads, locations and pits for an	y permitted work. In addition, the well operator or his contractor shall notify the
proper district oil and gas inspector 24 hours before actual permitted world	k has commenced.)
July 6, 1985	1 1 1111 1

Bond:	Agent:	Plat:	Casing	Fee
13	20	09	ag	612

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).
 - 23) Regulation 7.02 of the Department of Mines provides that the original and four copies of Form IV-2 must be filed with the Department, accompanied by (i) a plat in the form prescribed by Regulation 11, (ii) a bond in one of the forms prescribed by Regulation 12, or in lieu thereof the other security allowed by Code §22-4-2, (iii) Form IV-9, "Reclamation Plan", applicable to the reclamation required by Code §22-4-12b and Regulation 23, (iv) unless previously paid on the same well, the fee required by Code §22-4-12a, and (v) if applicable, the consent required by Code §22-4-8a from the owner of any water well or dwelling within 200 feet of the proposed well.
 - 24) The above named coal operator, coal owner(s), and coal lessee are hereby notified that any objection they wish to make or are required to make by Code §22-4-3 must be filed with the Department of Mines within fifteen (15) days after the receipt of this Application by the Department.

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

WAIVER

The undersigned coal operator	/ owner	/ lessee	/of the coal un	09/29/2023 der this well location has ex-
amined this proposed well location. If added to the mine map. The undersign	a mine map exists v	which covers the are	ea of the well location	n, the well location has been
operator has complied with all applica		TO STATE OF THE ST		
microto tentific e tips in orequed, vita disentilissa	the insulators a sulfict.	notau e		WAST SEED OF STREET
Date:, 19		Du .	Market Market	

Its

1) Date: June 20, 1983

2) Operator's
Well No. WI 010
3) API Well No. 47

State County Permit

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

APPLICATION FOR A WELL WORK PERMIT

4) WELL TY	PE: A. Oil	/ Ga:	s X /				
	B. (If	"Gas", P	roductio	n_χ / Und	ergroung sto	rage/ Dee	p_/Shallow_x_/
5) LOCATIO	N: Elevat	ion:	94 79	Water	shed Ott	er Run	
6) WELL OP	ERATOR POW	Valley D	ing Spri	Inc Count	y: Wirt 7) DESIG	GNATED AGENT	ngle: Girta
Addre	ess 600	Commerce	Square	-INC	Add	ress	P O Box 235
0) 07 - 0	AS INSPECTO	leston	W.V				Culloden W.V. 25510
					9) DRILI Name	LING CONTRACT	OR:
Address	Deo Mace s Rt. 1 Box	5		Ph. 2		dress	
	Sand Ridge	WV					
10) PROPOSE	D WELL WORK	: Drill_	x_/Dri	ll Deeper_	_/ Redrill_	_/ Stimulate	/
		Prug of	II OTO I	ormation	/ Perforate	e new formation	on/
1) GEOLOGIC	CAL TARGET	FORMATION	J. M.	acallus Cha	well (specify		
12) ESTI	nated depth	of camp.	leted we	II (or actu	al depth of e	existing well)	, Agnn feet
13) Appro	oximate wate	er strate	edepths	: Fresh, 5	5 % 140 feet;	salt, 155	n feet.
14) Appro	oximate coa.	I seam de	epths:	N/A	Is coal h	ceing mined in	n the area? Yes /No
CASING A	AND TUBING I	PROGRAM					
CASING OR TUBING TYPE		SPECIFICATION Weight	is .	FOOTA	GE INTERVALS	CEMENT FILL-UP	PACKERS
	Size Grad		New Used	For drilling	Left in well	OR SACKS (Cubic feet)	
Conductor	13		X	50	50	to surface	Kinds
Fresh water Coal	9 5/8		X	300	300	to surface	
Intermediate	7		X	2000	2000	to sunface	Sizes
Production	41	10.5	X	4850	4850	to surface 250 sks	Depths set
Tubing					1 -1000	LOU SKS	- Comment of the Comm
Liners							Perforations:
							Top Bottom
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of Applicat Permit on F Reclamation therein. I furt	eby state the clication for a Worm IV-2(B) Plan on Fo	Well Work , (3) a orm IV-9,	e read to Work Permit survey pall for we no ob	che instruct ermit, and to on Form IV- plat on Form proposed w	the planned the	ace owners on eceived copie Application 4) a Construc my surface la	nd as described
For executi							
AME:	COL DY COLD	racton,	partners	snip, etc.)	(For exe	ecution by nat	cural persons)
AVIE:		and the second of the second o			- 16.1	oldal 1	
					Justy	Mulic	Date: 4/23/8
By	·			Section 1		ignature) J. Wilson	
Its			Date:	gastavoj de	Lillia	on Calla	Date: 6/23/1
98 19					(S	ignature	b/23/8
					Lillian	C. Wilson	
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						TREPRES	09/29/2023
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					JI DI	JL -1 1983	

OIL & GAS DIVISION DEPT. OF MINES Reverse

INSTRUCTIONS TO SURFACE OWNERS

AND

EXPLANATION OF METHODS AND TIME LIMITS TO COMMENT ON OIL AND GAS WELL WORK PERMIT

The well operator named in the Notice and this Application and the attached materials is applying for a permit from the State to do oil or gas well drilling or other well work. You are being served with these materials because surface owners have the right to file comments before the permit is issued. (NOTE: If the surface tract is owned by more than three persons, in multiple heirship for example, then these materials were served on you because your name appeared on the Sheriff's tax ticket on the land or because you actually occupy the surface tract. In either case, you may be the only owner who will actually receive these materials.) Permit will be good for 24 months. See Chapter 22, Article 4 of the W. Va. Code.

If you do not own any interest in the surface tract, please forward these materials to the true owner immediately if you know who it is. Also, please notify the well operator named in the materials and the Administrator of the Office of Oil and Gas in the West Virginia Department of Mines immediately.

NOTE: You are not required to file any comment at all. Where to file comments and obtain additional information:

SURFACE OWNER'S COPY

Administrator of the Office of Oil and Gas West Virginia Department of Mines 1615 Washington Street East Charleston, WV 25311 (304) 348-2057

Who may file comments? If you wish to file comments, you must be an owner of record of (1) an interest in the surface tract on which the well already is or is about to be located, or (2) an interest in any other surface tract under the same oil or gas lease which will be utilized for roads or other land disturbances.

Time limits for comments. The law requires these materials to be personally served or mailed to you on or before the date the operator files his Application. You have FIFTEEN (15) DAYS after the filing date to file your comments as provided in Methods for Filing Comments below. (This time is changed to FIVE (5) DAYS from the filing date if the permit is only to plug a well.) You may call the Administrator's office at the above telephone number to be sure of the date. However, if you have been contacted by the well operator, and if you have signed a "voluntary statement of no objection" to any of the planned work described in these materials, then the permit may be issued at any time.

Comments must be in writing. Your comments should include your name, address and telephone number, the well operator's name and well number, and the approximate location of the proposed well site including district and county from the Application. You may add other documents, such as sketches, maps or photographs to support your comments.

Methods for filing comments. Comments must be filed in person or received in the mail at the Administrator's office by the time stated above. Check with your postmaster to ensure adequate delivery time or to arrange special expedited handling.

The Administrator for Oil and Gas has the power to deny or condition a well work permit based on your comments on the following grounds:

- "(1) The proposed well work will constitute a hazard to the safety of persons; or "(2) The plan for soil erosion and sediment control is not adequate or effective; or
- "(3) Damage would occur to publicly owned lands or resources; or
- "(4) The proposed well work fails to protect fresh water sources or supplies."

If you want a copy of the permit as it is finally issued, or a copy of the order denying the permit, you should request a copy from the Administrator.

<u>List of Water Testing Laboratories</u>. The Administrator maintains a list of water testing laboratories which you can hire to test your water to establish water quality prior to and after drilling. Contact the Administrator's office or an Oil and Gas Inspector to obtain a copy of the list.

09/29/2023

to the same of the

1) Date: June 20

State

2) Operator's

Well No.

WI 010 (Rev) 3) API Well No. 47

County

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

NOTICE OF APPLICATION FOR A WELL WORK PERMIT

4) SU	RFACE OWN	ER(S) OF RECORD TO BE SERVED	5(i)	COAL OPERATOR		
(i)	Name	Heabert J. Wilson		Address		
		13320 Island IK Rd	5(ii)	COAL OWNER(S)	WITH DECLARATION (N RECORD
(ii)	Name	Chelsea Michigan 48118		Name		
	Address	DECENT!		Address		
(iii)	Name -	The second of	The second	Name		-
	Address	1003		Address		
		JUL - I 1983	5(iii)		ITH DECLARATION ON	RECORD:
				Name		150,000
		OIL & GAS DIVIS	ION	Address		
		DEPT. OF MI	NES			
		TO THE PERSON(S) NAMED ABOVE: You should have	received the	is Form and the follow	ing documents:	
		(1) The Application for a Well Work Permi to be plugged, which sets out the par	t on Form IV-	-2(B) (or Form IV-4 if	the well is	

- and describes the well and its location and, if applicable, the proposed casing and cementing program;
- (2) The plat (surveyor's map) showing the well location on Form IV-6; and

(3) The Construction and Reclamation Plan on Form IV-9)unless the well work is only to plug a well), which sets out the plan for erosion and sediment control and for reclamation for the site and access road.

THE REASON YOU RECEIVED THESE DOCUMENTS IS THAT YOU HAVE RIGHTS REGARDING THE APPLICATION WHICH ARE SUMMARIZED IN THE "INSTRUCTIONS" ON THE REVERSE SIDE OF THE COPY OF THE APPLICATION (FORM IV-2(B) OR FORM 4, DESIGNATED FOR YOU. HOWEVER, YOU ARE NOT REQUIRED TO TAKE ANY ACTION AT ALL.

Take notice that under Chapter 22 of the West Virginia Code, the undersigned well op-erator proposes to file or has filed this Notice and Application and accompanying documents for a Well Work Permit with the Administrator of the Office of Oil and Gas, West Virginia Department of Mines, with respect to a well at the location described on attached Application and depicted on attached Form IV-6. Copies of this Notice, the Application, the plat, and the Construction and Reclamation Plan have been mailed by registered or certified mail or delivered by hand to the person(s) named above (or by publication in certain circumstances) on or before the day of mailing or delivery to the Administrator.

6) EXTRACTION RIGHTS

Check and provide one of the following:

- Included is the lease or leases or other continuing contract or contracts by which I hold the right to extract oil or gas.

 ☐ The requirement of Code 22-4-1-(c)(1) through (4). (See reverse side for specifics.)

7) ROYALTY PROVISIONS

State of

Is the right to extract, produce or market the oil or gas based upon a lease or leases or other contract or contracts providing for flat well royalty or any similar provision for compensation to the owner of the oil or gas in place which is not inherently related to the volume of oil or gas so extracted, produced or marketed? Yes

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

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

	The truth of the information on the	WELL
	Notice and Application is verified	OPERATOR BOWL
	and sworn to and the Notice is	/
	signed on behalf of the Well Operator	By Manny M.
	in my County and State by	Its Seniar
	DANNY M. Hought	Address Goo
	this jo day of June, 1983.	Chan
	My commission expires 1/25, 1985.	Telephone 34
.•	Helen Mae Sundarass	
	Notary Public, Kankawhy County,	

WELL
OPERATOR Bow Unlley Petroleum INC
By Monny m. Howalt
Its Seria Senceman
Address coo Commence Square
Charleston WU 25301
Telephone 344-8393

09/29/2023

INSTRUCTIONS TO APPLICANT

CONCERNING THE LINE ITEMS:

- 1) Date of Notice.
- 2) Your well name and number.
- 3) To be filled out by the Office of Oil & Gas.
- 4) & 5) Use separate sheet if necessary.
 - 4) Surface owner(s) of record to be served with Notice and Application. However, see also Code § 22-4-1b(b) if "more than three tenants in common or other co-owners of interest described in subsection (a) of this section hold interests in such lands".
 - 5(i) "Coal Operator" means any person, firm, partnership, partnership association or corporation that proposes to or does operate a coal mine.
- 5(ii, iii) See Code § 22-4-20.
 - 6) See Code § 22-4-11(c). However, in lieu of filing the lease(s) or other continuing contract(s), the Applicant may fill out the information in the space provided below.
 - 7) See Code § § 22-4-11(d, e).

CONCERNING THE REQUIRED COPIES FOR FILING AND SERVICE:

Filing. Code § 22-4-lk and Regulation 7.02 provide that the original and required copies of the Notice and Application must be filed with the Administrator, 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-lk(d) and the reclamation required by Code § 22-4-12b and Regulation 23, (iv) unless previously paid on the same well, the fees required by Code § 22-4-la(c) and 22-3-12a, and (v) if applicable, the consent required by Code § 22-4-8a from the owner of any water well on dwelling within 200 feet of the proposed well.

Service. In addition, service must be made on the surface owner(s) and the person(s) with an interest in the coal. See Code § § 22-4-lm, 22-4-2, 22-4-2a, and 22-4-2b.

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

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

- (1) the tract of land is the same tract described in the Application to which this Notice applies, partly or wholly depicted in the accompanying plat, and described in the Construction and Reclamation Plan;
- (2) the parties and recordation data (if recorded) for lease(s) or other continuing contract(s) by which the Applicant claims the right to extract, produce or market the oil or gas are as follows:

Grantor,	lessor,	etc.	Grantee,	lessee,	etc.	Royalty	Book Pa	age



WELL NO. WI 010

State of Mest Hirginia

API NO. 47 - 105 - 1079

Bepartment of Mines Gil und Gas Bivision

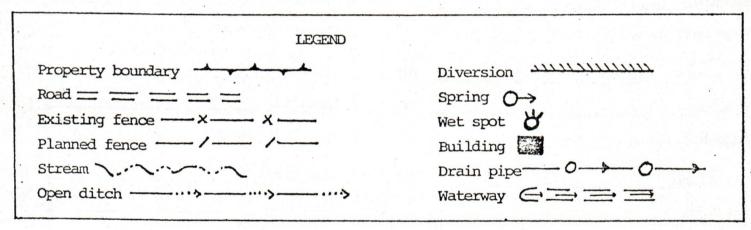
CONSTRUCTION	N AND RECLA	MATION PLAN	
Address Company Wast Viasion		Address Cuc	BEET W. LONG
Telephone 304-344-8393			562-3376
LANDOWNER H. J. Wilson			CT LITTLE KANAWAA
Revegetation to be carried out by	Zan Varia		
This plan has been reviewed by L		1 1	D. All corrections
and additions become a part of this plan		-8-83	•
	Jarr	(Date) ett New loo (SCD Agent)	
ACCESS ROAD		LOCA	ATION
Structure PRAINAGE DITES	(A)	Structure pivees	1000 DITCH (1)
Spacing		Material	
Page Ref. Manual 2-15		Page Ref. Manual	2-12
Structure Couvers (18")	(B)	Structure	DECERTER
Spacing		Material	MIDOCOUG
Page Ref. Manual Z-8		Page Ref. Manual	JUI - 1 1983
Structure	(C)	Structure	OIL & GAS DIVISION
Spacing		Material	DEPT. OF MINES
Page Ref. Manual		Page Ref. Manual	
All structures should be inspected commercial timber is to be cut and scut and removed from the site before	stackea and	i all brush and sin	necessary. All all timber to be
	REVEGETATIO	ON	
Treatment Area I		Treatm	ment Area II
Lime Z Tons/ac	re	Lime or correct to	Tons/acre
or correct to pH 65		Fortilizer	lbs/acre
Fertilizer 600 lbs/acro	e	(10-20	0-20 or equivalent)
Mulch May //2 Tons/ac	re	Mulch	Tons/acre
Seed* Kennicky 31 Fescus 45 lbs/acr		Seed*	lbs/acre
LADING CLOVER 3 lbs/acr			lbs/acre
Rys 3 lbs/acr			lbs/acre
*Inoculate all legumes such as veto Inoculate with 3X recommended amount.	ch, trefoil	and clovers with	the proposition.
	PLAN PR	REPARED BY William	M. F. HENRICHS, III
NOTES: Please request landowners'		ADDRESS 600 C	POMMERCE SQUARE
cooperation to protect new seedling for one growing season.		CHARLE.	STON WEST VIRGINIA
Attach separate sheets as necessary for comments.	1	PHONE NO. 304-344	

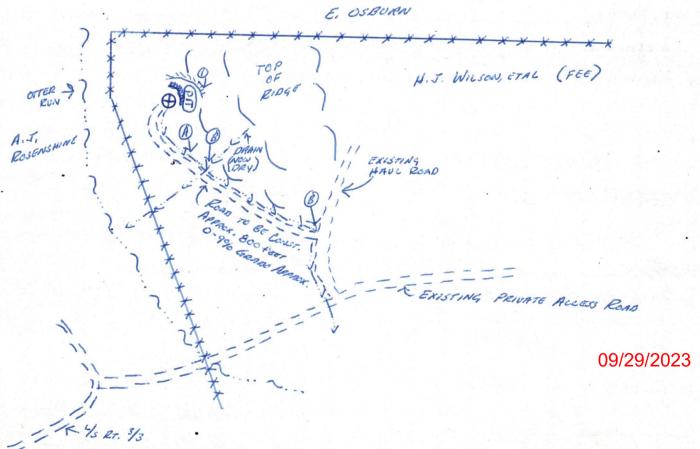
ATTACH OR PHOTOCOPY SECTION OF INVOLVED TOPOGRAPHIC MAP. QUADRANGLE GUETA

LEGEND
Well Site ()
Access Road -----

WELL SITE PLAN

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







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iow Val., ... n. t nucleityes, brust, weeds, of oilway (temporary of treselve the install to of sall ripath, r

s - Japananas, v

09/29/2023

HOOK 162 PAGE 5661

HOUSE 1000 Lease no 2448. OIL AND GAS LEASE

8-107 8448

by and between ROGER G. PORRETS AND SALLY P. PORRETS HIS WIFE of WHEELING, WEST VIRGINIA party of the first part, hereinafter called Lessor (whether one or more), and ROJ VALLY P. CTROLEUM, INC. party of the second part, hereinafter called Lessoe. 1. WINNESSTH. That the Lessor, in consideration of the sum of One Dollar, the receipt of which is hereby achowledged, and the coverants and agreements hereinafter contained, does hereby grant unto the Lessoe all of the oil and gas and all of the constituents hereinafter contained, does hereby grant unto the Lessoe all of the oil and gas and all of the constituents well and party on the said in any formation underlying the land, and says and all of the constituents, and to possess, use, and occupy so much of said premises as is necessary and convenient for setting and gas and all of the constituents, and to possess, use, and occupy so much of said premises as is necessary and convenient for setting and uproses and to convey the above named products therefrom or thereto by pipe lines or otherwise; said land being situate in BURLING SECT. Termschip, County of WIFT , State of WEST VIRGINIA , and described as follows, to-wit: Bounded on the NORTH by lands of NOTTINIAMA ; ADAMA . EAST by lands of NOTTINIAMA ; ADAMA . WEST by lands of WIKATON . CONTAINING SECULARIY ELGHT CTS acres, more or less and being the same land conveyed to lessor by by deed dated . The STATE AND SECULARIY SECULARI	AGREEMENT, made and entered into this 2 day of JULY A. D. 19 7
of WHCCLING, WEST VIRGINIA party of the first part, hereinafter called Lessor (whether one or more), and ROW VILLY PETROLEUM, INC. party of the second part, hereinafter called Lessor. I. WITNESSETH: That the Lessor, in consideration of the sum of One Dollar, the receipt of which everly adonaveledged, and the covenants and agreements hereinafter contained, does hereby grant unto the Lessee all of the oil and gas and all of the constituents of the sum of the sum of One Dollar, the receipt of which produce and market oil and gas and their constituents of the sum of the sum of One Dollar, the receipt of which produce and market oil and gas and their constituents of the sum of One Dollar, the receipt of the sum of the sum of the sum of One Dollar, the receipt of the sum of the	Li ad between ROCCE G. ROBERTS AND SALLY P. ROBERTS HIS WIFE
of WHEELING, WEST VIRGINIA party of the first part, hereinafter called Lessor (whether one or more), and ROW VILLEY PETROLEUM, INC. party of the second part, hereinafter called Lessee; 1. WITNESSETH: That the Lessor, in consideration of the sum of One Dollar, the receipt of which is hereby acknowledged, and the covenants and agreements hereinafter contained, does hereby grant unto the Lessee all of the violance of the covenants and agreements hereinafter contained, does hereby grant unto the Lessee all of the order of the covenants and gas and their constituents of either in and under the land hereinafter described, together with the exclusive right to drill for, produce and market oil and gas and their constituents are little and operating for oil, gas and water, laying pipe lines, erectains, powers and structures, and to possess, use, and occupy so much of said premises as is necessary and convenient for said purposes and to convey the above named products therefrom or thereto by pipe lines or otherwise; said land being situate in BURLING SECT. Township, County of WIRT STOWN SECT. Township, County of	
and ROW VALLEY PETROLEUM, INC. 1. WITNESSETH: That the Lessor, in consideration of the sum of One Dollar, the receipt of which is breely acknowledged, and the coverants and agreements hereinfer contained, does hereby grant unto the Lessee all of the oil and gas and all of the contained and the lease of the coverants and agreements hereinfer contained, does hereby grant unto the Lessee all of the oil and gas and all of the contained and the lease of the coverants and agreements hereinfer contained, does hereby grant unto the Lessee all of the oil and gas and all of the contained and gas and their constituents and accounts of the contained and gas and their constituents and accounts of the contained and gas and their constituents and accounts of the contained and accounts of the contained and gas and their constituents and accounts of the contained and contained and the containing and the contained a	
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1. WITNESSETH: That the Lessor, in consideration of the sum of One Dollar, the receipt of which is bereby acknowledged, and the coverants and agreements hereinafter contained, does hereby grant unto the Lessee all of tool and gas and all of the constituents of either in and under the land hereinafter described, together with the exclusive right to drill for, produce and market oil and gas and their constituents and all other produces and the produces at all times for the purpose of drilling and operating for oil, gas and water, laying pipe lines, erecting tanks, machinery, powers and structures, and to possess, use, and occupy so much of said premises as is necessary and convenient for said purposes and to convey the above named products therefrom or thereto by pipe lines or otherwise; said land being situate in Parallel Self-Twanship, County of WILT, State of WEST VIRGINIA, and described as follows, to-wit: Bounded on the NORTH by lands of NOTTINGHAM AND ADDRESS OF SELFONDER WEST by lands of NOTTINGHAM AND ADDRESS OF SELFONDER WEST by lands of WILLIAM AND ADDRESS OF SELFONDER WEST by lands of WILLIAM AND ADDRESS OF SELFONDER WEST by lands of WILLIAM AND ADDRESS OF SELFONDER WEST by lands of WILLIAM AND ADDRESS OF SELFONDER WEST by lands of WILLIAM AND ADDRESS OF SELFONDER WEST by lands of WILLIAM AND ADDRESS OF SELFONDER WEST by lands of WILLIAM AND ADDRESS OF SELFONDER WEST by lands of WILLIAM AND ADDRESS OF SELFONDER WEST by lands of WILLIAM AND ADDRESS OF SELFONDER WEST by lands of WILLIAM AND ADDRESS OF SELFONDER WEST by lands of WILLIAM AND ADDRESS OF SELFONDER WEST by lands of WILLIAM AND ADDRESS OF SELFONDER WEST by deed dated a recorded in said country records in Book No. Page 2. It is agreed that this lease shall remain in force for a primary term of FIVE Selfonder west by a paying quantities thereon, we are considered and address of the selfonder west of the structure of the selfonder west o	of WHEELING, WEST VIRGINIA party of the first part, hereinafter called Lessor (whether one or more)
the above named products therefrom or thereto by pipe lines or otherwise; said land being situate in BRRITE PRESTEWARING. County of WIRT, State of WEST VIRGINIA, and described as follows, to-wit: Bounded on the NORTH by lands of NOTTINGHAM, ADAMS. EAST by lands of SENNIC BECC. SOUTH by lands of JILLEDAUS' ECOREE W. BONAR WEST by lands of WHEATON Containing SCNENTY-EIGHT CTS acres, more or less and being the same land conveyed to lessor by by deed dated and being the same land conveyed to lessor by by deed dated and being the same land conveyed to lessor by by deed dated and land the same land conveyed to lessor by deed dated. 2. It is agreed that this lease shall remain in force for a primary term of FINE CS years from this date and as long thereafter as operations for oil or gas are being conducted on the premises, or oil or gas is found in paying quantities thereon, we have formation underlying the horsin leased land is used for storage of gas provided under paragraph bases. 3. The Lessee shall deliver to the credit of the Lessor free of cost, in the pipe line to which he may connect his wells, the equal one-eighth (%) part of all oil produced and saved from the leased premises, and shall pay Lessor are voluded. THE PROCESSOR DERIVED BY LESSEE FROM THE SALE OF SAN AT THE WELL. for all gas and casing head gas produced and sold from the premises, payable monthly; provided, Lessee shall pay Lessor are royally at the rate of Feets, Dollars per year on each gas well while, through lack of market, gas therefrom is not sold or used off the premises, and shall pay Lessor are payable with the said royalty is so paid said well shall be held to be a paying well under paragraph 2 hereof. 4. The Lessee shall commence operations for a well on the premises on or before JULY DOLLAR STAR STAR STAR STAR STAR STAR STAR ST	1. WITNESSETH: That the Lessor, in consideration of the sum of One Dollar, the receipt of which is hereby acknowledged, and the covenants and agreements hereinafter contained, does hereby grant unto the Lessee all of the oil and gas and all of the constituents of either in and under the land hereinafter described, together with the exclusive right to drill for, produce and market of and gas and their constituents and of the right in any formation underlying the land, and also the right to enter thereof at all times for the purpose of drilling and operating for oil, gas and water, laying pipe lines, erecting tanks, machinery, powers and structures, and to possess, use, and occupy so much of said premises as is necessary and convenient for said purposes and to convey
County of WIRT, State of WEST VIRGINIA, and described as follows, to-wit: Bounded on the NORTH by lands of MOTTINGHAM, ADAMS. EAST by lands of MICATON WEST by lands of MICATON Containing SCNENTY-EIGHT CTS) acres, more or less and being the same land conveyed to lessor by by deed dated. Page 2. It is agreed that this lease shall remain in force for a primary term of FIVE Tyears from this date and as long thereafter as operations for oil or gas are being conducted on the premises, or oil or gas is found in paying quantities thereon, every formation underlying the basels leased land is used for storage of gas as provided under paragraph thereof. 3. The Lessee shall deliver to the credit of the Lessor free of cost, in the pipe line to which he may connect his wells, the equal one-eighth (%) part of all oil produced and saved from the leased premises, and shall pay Lessor. THE PROCECUS DERIVED BY LESSEE FROM THE SALE OF EAS AT THE WELL. THE PROCECUS DERIVED BY LESSEE FROM THE SALE OF EAS AT THE WELL. THE PROCECUS DERIVED BY LESSEE FROM THE SALE OF EAS AT THE WELL. THE PROCECUS DERIVED BY LESSEE FROM THE SALE OF EAS AT THE WELL. THE PROCECUS DERIVED BY LESSEE FROM THE SALE OF EAS AT THE WELL. THE PROCECUS DERIVED BY LESSEE FROM THE SALE OF EAS AT THE WELL. THE PROCECUS DERIVED BY LESSEE FROM THE SALE OF EAS AT THE WELL. THE PROCECUS DERIVED BY LESSEE FROM THE SALE OF EAS AT THE WELL. THE PROCECUS DERIVED BY LESSEE FROM THE SALE OF EAS AT THE WELL. THE PROCECUS DERIVED BY LESSEE FROM THE SALE OF EAS AT THE WELL. THE PROCECUS DERIVED BY LESSEE FROM THE SALE OF EAS AT THE WELL. THE PROCECUS DERIVED BY LESSEE FROM THE SALE OF EAS AT THE WELL. THE PROCECUS DERIVED BY LESSEE THOUGH AND THE SALE OF EAS AT THE WELL. THE PROCECUS DERIVED BY LESSEE AT THE WELL. THE PROCECUS DERIVED BY LESSEE BY LESSE	the above named products therefrom or thereto by pipe lines or otherwise; said land being situate in Bulling Spes Township
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by deed dated Book No. Page 2. It is agreed that this lease shall remain in force for a primary term of FIVE (5) years from this date and as long thereafter as operations for oil or gas are being conducted on the premises, or oil or gas is found in paying quantities thereon, as any formation underlying the borein leased land is used for storage of gas provided under paragraph between. 3. The Lessee shall deliver to the credit of the Lessor free of cost, in the pipe line to which he may connect his wells, the equal one-eighth (1/6) part of all oil produced and saved from the leased premises, and shall pay Lessor any connect his wells, the equal that PROCES OF DERIVED BY LESSEE FROM THE SALE OF CAS AT THE WELL. for all gas and casing head gas produced and sold from the premises, payable monthly; provided, Lessee shall pay Lessor a royalty at the rate of Etc. Dollars per year on each gas well while, through lack of market, gas therefrom is not sold or used off the premises, and while said royalty is so paid said well shall be held to be a paying well under paragraph 2 hereof. 4. The Lessee shall commence operations for a well on the premises on or before. 2. The Lessee shall commence operations for a well on the premises on or before. 2. The Lessee shall commence operations for a well on the premises on or before. 2. The Lessee shall commence operations for a well on the premises on or before. 2. The Lessee shall commence operations for a well on the premises on or before. 2. The Lessee shall commence operations for a well on the premises, payable and the payable of or each The Consideration first recited herein, the down payment, shall cover not only the privilege granted to the date when first said rental is payable as aforesaid, but also the Lessee's option of extending that period as aforesaid, and any and all other rights conferred. The drilling of a non-productive well shall be accepted by the Lessor in lieu of delay rental for payment of rentals the provisions hereof governing such payment and t	WEST by lands of WHEATON
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for all gas and casing head gas produced and sold from the premises, payable monthly; provided, Lessee shall pay Lessor a royalty at the rate of Pts Dollars per year on each gas well while, through lack of market, gas therefrom is not sold or used off the premises, and while said royalty is so paid said well shall be held to be a paying well under paragraph 2 hereof. 4. The Lessee shall commence operations for a well on the premises on or before the time above mentioned. The consideration first recited herein, the down payment, shall cover not only the privilege granted to the date when first said rental is payable as aforesaid, but also the Lessee's option of extending that period as aforesaid, and any and all other rights conferred. The drilling of a non-productive well shall be accepted by the Lessor in lieu of delay rental for a period of one year after its completion, and following the exhaustion or abandonment of all wells the Lessee shall have the right for a period of one year to resume the payment of delay rental or commence operations for another well. Upon the resumption of payment of rentals the provisions hereof governing such payment and the effect thereof shall continue in force as though they had not been interrupted. 5. All moneys coming due hereunder shall be paid or tendered to the Lessee to make any payment or perform any conditions provided for herein unless the Lessee by the Lessor for failure of the Lessee to make any payment or perform any conditions provided for herein unless the Lessee shall refuse or neglect to pay or perform the same for ten days after having received written notice by registered mail from the Lessor of his intention to declare such default. 6. Lessor reserves 200,000 cubic feet of gas per annum for domestic use, to be taken through his own appliances at any producing gas well, and agrees to pay Lessee a fair domestic rate for any gas used in excess thereof. Lessor further covenants and agrees that the provision of the premises, payment or perform the same for ten	3. The Lessee shall deliver to the credit of the Lessor free of cost, in the pipe line to which he may connect his wells, the equa
4. The Lessee shall commence operations for a well on the premises on or before. JOLY, 19 19 19 19 19 19 19 19 19 19 19 19 19	for all gas and casing head gas produced and sold from the premises, payable monthly; provided, Lessee shall pay Lessor a royalty at the rate of Fife Dollars per year on each gas well while, through lack of market, gas therefrom is not sold or used off the premises, and while said royalty is so paid said well shall be held to be a paying well under paragraph 2 hereof.
to the date when first said rental is payable as aforesaid, but also the Lessee's option of extending that period as aforesaid, and any and all other rights conferred. The drilling of a non-productive well shall be accepted by the Lessor in lieu of delay rental for a period of one year after its completion, and following the exhaustion or abandonment of all wells the Lessee shall have the right for a period of one year to resume the payment of delay rental or commence operations for another well. Upon the resumption of payment of rentals the provisions hereof governing such payment and the effect thereof shall continue in force as though they had not been interrupted. 5. All moneys coming due hereunder shall be paid or tendered to STRATFORD RD, WHEELING, WIVA. DEODS and no default shall be declared against the Lessee by the Lessor for failure of the Lessee to make any payment or perform any conditions provided for herein unless the Lessee shall refuse or neglect to pay or perform the same for ten days after having received written notice by registered mail from the Lessor of his intention to declare such default. 6. Lessor reserves 200,000 cubic feet of gas per annum for domestic use, to be taken through his own appliances at any producing gas well, and agrees to pay Lessee a fair domestic rate for any gas used in excess thereof. Lessor further covenants and agrees that his taking and use of gas shall be wholly at his own risk, the Lessee not to be held liable for any accident or damage caused thereby,	4. The Lessee shall commence operations for a well on the premises on or before JULY 27, 19 \$2 unless Lessee
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all rocks and rights-of-way necessary to store and produce such stored gas. As full payment for such storage rights, the less that pay to the lesson a rental at the rate of the payment is made, all provisions of this lease shall remain in full effect.

8. Lessor further grants to the Lessee, his heirs and assigns, the right to unitize this lease with other leases to form a drilling unit or units according to the rules and regulations which may be adopted for the proper development and conservation of the field. In the event this lease is so unitized, the Lessor agrees to accept, in lieu of the royalty hereinbefore recited, such proportion of the royalty above provided, as the acreage covered by this lease bears to the total acreage comprising the unit.

9. If said Lessor owns a less interest in the above described land than the undivided fee simple estate therein, then the royalties and rentals herein provided shall be paid the Lessor only in the proportion which his interest bears to the whole and undivided

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fee.

10. No well may be drilled nearer than 200 feet to the house or barn now on said premises without the written consent of Lessor. Lessee shall have and enjoy all rights and privileges necessary and convenient for the proper use and development of this lease, and shall have the right to use, free of cost, gas, oil and water produced on said land for its operations thereon, except water from wells of Lessor. Lessee shall also have the right at any time to remove all or any part of the machinery, fixtures or structures placed on said premises, including the right to draw and remove casing. Lessee shall pay for damages caused by its operations to growing crops on said lands, and, when requested by Lessor, shall bury its pipe lines below plow depth.

11. The interest or estate of either party hereto may be assigned, the privilege of assigning in whole or in part being expressly allowed. In event this lease shall be assigned as to any part or parts of the above described land and the assignee or assignees of such part or parts shall fail or make default in the payment of the proportionate part of the rents due from him or them, such default shall not operate to defeat or affect this lease insofar as it covers a part or parts of said land upon which the said Lessee or any assignee thereof shall make due payment of said rental. No change of ownership in the land or in the rentals or royalties shall be binding on the Lessee until after notice to the Lessee and it has been furnished with a written transfer or assignment or a certified copy thereof.

12. At any time, Lessee, its successors or assigns, shall have the right to surrender this lease or any part thereof for cancelation.

tified copy thereof.

12. At any time, Lessee, its successors or assigns, shall have the right to surrender this lease or any part thereof for cancelation, after which all payments and liabilities hereunder thereafter shall cease and determine, and if the whole is surrendered, then this lease shall become absolutely null and void. This surrender may be made to the Lessor, or if more than one Lessor, then to any one of them, or to the heirs or assigns of any one of them by delivery of a duly executed surrender thereof in person or by mail addressed to the post office address of such person, or by recording a duly executed surrender thereof in the Recorder's office of the County in which the land is located.

13. Lessor hereby warrants and agrees to defend the title to the land hard described and agrees that the Lessee at its option may pay, discharge or redeem any taxes, mortgages, or other liens existing, levied, or assessed on or against the above described lands, and in event it exercises such option, it shall be subrogated to the rights of any holder or holders thereof and may reimburse itself by applying any royalty or rentals accruing hereunder to the discharge of any such taxes, mortgages or other liens.

14. It is expressly agreed that if the Lessee shall commence drilling operations at any time while this lease is in force, it shall remain in force and its terms continue so long as such operations are prosecuted, and if production results therefrom, then as long as production continues. If after the expiration of the term of this lease production from the leased premises shall cease from any cause, this lease shall not terminate provided Lessee resumes operations within sixty days from such cessation, and this lease shall remain in force during the prosecution of such operations, and, if production results therefrom, then as long as off or gas is produced in paying quantities.

duced in paying quantities.

5. This lease embodies the entire contract and agreement between or inducements not herein expressed have been made or relieure of shall extend to the respective heirs, executors, administrato			
Witness the hands and seals of the parties hereto the day and ye	ar first above written	1.	5
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ROGER G. AND SALLY 1	ROBER	75	
hose names ARE signed to the within writing bearing date t	he 27 7H	day of Ju	24 15 19 E
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BOOK 162 PAGE 562

Fiase# 2348 FF. RECEIVED MOY 2 1 1990 OIL AND GAS LEASE Ans dday of OCTOBER A. D. 1980 AGREEMENT, made and entered into this. by and between WILLIAM B. REED of APACHE JUNCTION, APIZONA party of the first part, hereinafter called Lessor (whether one or more), and PAY RESOURCES DIV. OF BOW VALLEY PERDICUM, party of the second part, hereinafter called Lessee;

1. WITNESSETH: That the Lessor, in consideration of the sum of One Dollar, the receipt of which is hereby acknowledged, and the covenants and agreements hereinafter contained, does hereby grant unto the Lessee all of the oil and gas and all of the constituents of either in and under the land hereinafter described, together with the exclusive right to drill for, produce and market oil and gas and their constituents and of stering gas of any kind in any formation underlying the land, and also the right to enter thereon at all times for the purpose of drilling and operating for oil, gas and water, laying pipe lines, erecting tanks, machinery, powers and structures, and to possess, use, and occupy so much of said premises as is necessary and convenient for said purposes and to convey the above named products therefrom or thereto by pipe lines or otherwise: said land being situate in Purpose Sees Teachers. the above named products therefrom or thereto by pipe lines or otherwise; said land being situate in BURNING SERS, Touching, County of WIRT, State of WEST VIRGINIA, and described as follows, to-wir: Bounded on the NORTH by lands of NOTTINGHAM, ADAMS EAST by lands of JENNIE RELL SOUTH by lands of J.C. EUNNS, GEO.W. BONAR WEST by lands of WHEATON Containing SEVENTY-EIGHT (78) acres, more or less and being the same land conveyed to lessor by ...by deed dated..... recorded in said county records in... Book No. 2. It is agreed that this lease shall remain in force for a primary term of Five years from this date and as long thereafter as operations for oil or gas are being conducted on the premises, or oil or gas is found in paying quantities thereon, or any formation underlying the herein leased land is used for storage of gas as provided under paragraph 7 hereof.

3. The Lessee shall deliver to the credit of the Lessor free of cost, in the pipe line to which he may connect his wells, the equal one-eighth (1/2) part of all oil produced and saved from the leased premises, and shall pay Lessor ONE - EIGHTHE 1/2 DE for all gas and casing head gas produced and sold from the premises, payable monthly; provided, Lessee shall pay Lessor a royalty at the rate of Fifty Dollars per year on each gas well while, through lack of market, gas therefrom is not sold or used off the premises, and while said royalty is so paid said well shall be held to be a paying well under paragraph 2 hereof. 4. The Lessee shall commence operations for a well on the premises on or before OCTORE 15, unless Lessee pays thereafter a rental of WO HONDED THEN - For each TWOUS (12) months that operations are delayed from the time above mentioned. The consideration first recited herein, the down payment, shall cover not only the privilege granted to the date when first said rental is payable as aforesaid, but also the Lessee's option of extending that period as aforesaid, and any and all other rights conferred. The drilling of a non-productive well shall be accepted by the Lessor in lieu of delay rental for a period of one year after its completion, and following the exhaustion or abandonment of all wells the Lessee shall have the right for a period of one year to resume the payment of delay rental or commence operations for another well. Upon the resumption of payment of rentals the provisions hereof governing such payment and the effect thereof shall continue in force as though they had not been interrupted. of payment of rentals the provisions hereof governing such payment and the effect thereof shall continue in force as though they had not been interrupted.

5. All moneys coming due hereunder shall be paid or tendered to 4 - WILLIAM B. REED OR MARL G. REED direct, or by check payable to his (or her) order mailed to 6. D. R. Ox 6. 2 OVEEN VALUEY APACHE SCT. ARIZ, and no default shall be declared against the Lessee by the Lessor for failure of the Lessee to make any payment or perform any conditions provided for herein unless the Lessee shall refuse or neglect to pay or perform the same for ten days after having received written notice by registered mail from the Lessor of his intention to declare such default.

6. Lessor reserves 200,000 cubic feet of gas per annum for domestic use, to be taken through his own appliances at any producing gas well, and agrees to pay Lessee a fair domestic rate for any gas used in excess thereof. Lessor further covenants and agrees that his taking and use of gas shall be wholly at his own risk, the Lessee not to be held liable for any accident or damage caused thereby, nor shall Lessee be liable for any shortage or failure in the supply of gas for said domestic use.

7 Lessee shall have the right to use any formation underlying the leased premises for the storage of gas and shall be payment to make the right to use any formation underlying the leased premises for the storage of gas and shall be provided as the provisions of this lease shall remain in full effect.

8. Lessor further grants to the Lessee, his heirs and assigns, the right to unitize this lease with other leases to form a drilling unit or units according to the rules and regulations which may be adopted for the proper development and conservation of the field. In the event this lease is so unitized, the Lessor agrees to accept, in lieu of the royalty hereinbefore recited, such proportion of the royalty above provided, as the acreage covered by this lease bears to the total acreage comprising the unit.

9. If said Lesso 10. No well may be drilled nearer than 200 feet to the house or barn now on said premises without the written consent of Lessor. Lessee shall have and enjoy all rights and privileges necessary and convenient for the proper use and development of this lease, and shall have the right to use, free of cost, gas, oil and water produced on said land for its operations thereon, except water from wells of Lessor. Lessee shall also have the right at any time to remove all or any part of the machinery, fixtures or structures placed on said premises, including the right to draw and remove casing. Lessee shall pay for damages caused by its operations to growing crops on said lands, and, when requested by Lessor, shall bury its pipe lines below plow depth.

11. The interest or estate of either party hereto may be assigned, the privilege of assigning in whole or in part being expressly allowed. In event this lease shall be assigned as to any part or parts of the above described land and the assignee or assignees of such part or parts shall fail or make default in the payment of the proportionate part of the rents due from him or them, such default shall not operate to defeat or affect this lease insofar as it covers a part or parts of said land upon which the said Lessee or any assignee thereof shall make due payment of said rental. No change of ownership in the land or in the rentals or royalties shall be binding on the Lessee until after notice to the Lessee and it has been furnished with a written transfer or assignment or a certified copy thereof.

12. At any time, Lessee, its successors or assigns, shall have the right to surrender this lesse or any part, thereof for exceptions. 12. At any time, Lessee, its successors or assigns, shall have the right to surrender this lease or any part thereof for cancelation, after which all payments and liabilities hereunder thereafter shall cease and determine, and if the whole is surrendered, then this lease shall become absolutely null and void. This surrender may be made to the Lessor, or if more than one Lessor, then to any one of them, or to the heirs or assigns of any one of them by delivery of a duly executed surrender thereof in person, or by recording a duly executed surrender thereof in the recorder of the County in which the land is located. 13. Lessor hereby warrants and agrees to defend the title to the land herein described and agrees that the Lessee at its option may pay, discharge or redeem any taxes, mortgages, or other liens existing, levied, or assessed on or against the above described lands, and in event it exercises such option, it shall be subrogated to the rights of any holder or holders thereof and may reimburse itself by applying any royalty or rentals accruing hereunder to the discharge of any such taxes, mortgages or other liens.

14. It is expressly agreed that if the Lessee shall commence drilling operations at any time while this lease is in force, it shall remain in force and its terms continue so long as such operations are prosecuted, and if production results therefrom, then as long as production continues. If after the expiration of the term of this lease production from the leased premises shall cease from any cause, this lease shall not terminate provided Lessee resumes operations within sixty days from such cessation, and this lease shall remain in force during the prosecution of such operations, and, if production results therefrom, then as long as ofl or gas is produced in paying quantities.

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Witness the hands and seals of the parties hereto the day and year		
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WILLIAM B. AND MABEL G.	REED	10 8
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this day acknowledged the same before me in my said of	ounty. Deb	1
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OHIO ACKNOTATE OF OHIO, COUNTY OF Before me, a Notary Public in and for said county, personally that he did sign the foregoing instrument, and that the whereof I have hereunto subscribed my name at day of	Notary Public Notary Public SS. appeared the above named he same is free act and this Notary Public Comme County County County	who acknowled
OHIO ACKNOTATE OF OHIO, COUNTY OF Before me, a Notary Public in and for said county, personally that he did sign the foregoing instrument, and that the whereof I have hereunto subscribed my name at day of	Notary Public Notary Public SS. appeared the above named he same is free act and this Notary Public County County County County	who acknowled deed. In testing
OHIO ACKNOTATE OF OHIO, COUNTY OF Before me, a Notary Public in and for said county, personally that he did sign the foregoing instrument, and that the whereof I have hereunto subscribed my name at day of	Notary Public Notary Public SS. appeared the above named he same is free act and this Notary Public Commerce County County County	who acknowled deed. In testing of and
OHIO ACKNOTATE OF OHIO, COUNTY OF Before me, a Notary Public in and for said county, personally shat he did sign the foregoing instrument, and that the whereof I have hereunto subscribed my name at day of My Commission expires In Deed Book Work Paid Clerk W	Notary Public Notary Public SS. appeared the above named he same is free act and this Notary Public County County County County	who acknowled deed. In testing of and
OHIO ACKNOON COUNTY OF Before me, a Notary Public in and for said county, personally that he did sign the foregoing instrument, and that the whereof I have hereunto subscribed my name at day of My Commission expires In Deed Book W. Va. Globe Printing & Blin	Notary Public Notary Public SS. appeared the above named he same is free act and this Notary Public County County County County	who acknowled deed. In testing of and a wind a construction of the
OHIO ACKNOTATE OF OHIO, COUNTY OF Before me, a Notary Public in and for said county, personally state that he did sign the foregoing instrument, and that the whereof I have hereunto subscribed my name at day of the County, W. Va. My Commission expires In Deed Book W. Va. Clerk W. Va. Clerk W. Va. Clerk W. Va. Clerk W. Va.	Notary Public Notary Public SS. appeared the above named he same is free act and this Notary Public Notary Public Notary Public Commerce Squar Location Location County County	who acknowled deed. In testing of and
OHIO ACKNOTATE OF OHIO, COUNTY OF Before me, a Notary Public in and for said county, personally shat he did sign the foregoing instrument, and that the whereof I have hereunto subscribed my name at day of My Commission expires In Deed Book Work Paid Clerk W	Notary Public Notary Public Notary Public SS. Appeared the above named he same is Notary Public Char leston, W. Va. Location County County County	who acknowled deed. In testing deed.
OHIO ACKNOTATE OF OHIO, COUNTY OF Before me, a Notary Public in and for said county, personally shat he did sign the foregoing instrument, and that the whereof I have hereunto subscribed my name at day of My Commission expires In Deed Book W. Va. Clerk W. Va. Globe Printing & Bin	Notary Public Notary Public Notary Public SS. Appeared the above named he same is Notary Public Char leston, W. Va. Location County County County	who acknowled deed. In testing the deed of
OHIO ACKNOTATE OF OHIO, COUNTY OF Before me, a Notary Public in and for said county, personally that he did sign the foregoing instrument, and that the whereof I have hereunto subscribed my name at day of My Commission expires Globe Printing & Blading &	Notary Public Notary Public SS. appeared the above named he same is free act and County Public Notary Public Notary Public Notary Public County County Va. County County Va.	who acknowledged. In testing deed. In testing the second of the second o

BOOK 159 PAGE 981



IV-35 (Rev 8-81)

WELL TYPE:

State of Mest Hirginia Well No. WI010 Bepartment of Mines Farm Wilson

Date January 13, 1984
Operator's
Well No. WI010
Farm Wilson
API No. 47 _ 105 1079

Department of Mines

Bil and Gas Bivision

WELL OPERATOR'S REPORT

OF

DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

Oil X / Gas X / Liquid Injection / Waste Disposal

LOCATION: Elevation: 894.79 Watershed				
District: B.Springs County Wi	rt	_Quadrangl	e GIFUS	
COMPANY Bow Valley Petroleum, Inc.				#4
ADDRESS 600 Commerce Sq.Charleston, WV.	Casing	Used in	Left	Cement
DESIGNATED AGENT Robert Long	Tubing	Drilling		fill up Cu. ft.
ADDRESS P.O. Box 235, Culloden, WV.	Size	DITTITING	TII WEIT	Cu. IL.
SURFACE OWNER Herbert Wilson	20-16	17	17	15sks
ADDRESS 13320 Island Lake Rd.Chelsen, MI.	Cond.	330	330	100sks
MINERAL RIGHTS OWNER Herbert Wilson	13-10"			1000110
ADDRESS 13320 Island Lake Rd.Chelsen MI.	9 5/8	1,	actives to	3 10 10 1
OIL AND GAS INSPECTOR FOR THIS WORK Homer	8 5/8	1932	1932	170sks
Daugherty ADDRESS Looneyville, WV.	7			
PERMIT ISSUED 7/6/83	5 1/2	4070	4070	775-1
DRILLING COMMENCED 7/28/83	4 1/2	4972	4972	375sks
DRILLING COMPLETED 8/02/83	2			· · · · · · ·
CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED ON	Liners used			
GEOLOGICAL TARGET FORMATION Marcellus Shale	2	Dept	h	feet
Depth of completed well 5001 feet F	Rotary X	_/ Cable	Tools_	
Water strata depth: Fresh 230 feet;				
Coal seam depths: None Encountered	Is coal 1	peing mine	d in the	area?
OPEN FLOW DATA				
Producing formation Devonian Shale	Pay	zone dept	h 4755-2	297 feet
Gas: Initial open flow 0 Mcf/d	Oil: Init	ial open	flow o	Bb1/d
Final open flow 189 Mcf/d				
Time of open flow between initi	al and fir	al tests	hou	rs .
Static rock pressure 800 psig(surface	measureme	ent) after	72_hour	s shut in
(If applicable due to multiple completion-	-)			
Second producing formation		zone depth	08	0/29/2023 feet
Gas: Initial open flow Mcf/d	Oil: Init	ial open	flow	Bb1/d
Final open flowMcf/d	Oil: Fina	l open flo		Bb1 /d
Time of open flow between initia	al and fin	al tests	hou	rs
Static rock pressurepsig(surface r	measuremen	t) after	hour	s shut in
		(Continu	e on reve	erse si

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

1st Stage - 4755-3738 perforate 28 holes drop 1000 gals 15% HCL frac with 1,117,000 SCF N_2 . Breakdown 1840# Average Injection 51,000 SCF/m ISIP 2660.

2nd Stage - 3649-3172' 28 holes drop 500 gals 15% HCL frac with 997,000 SCF N2. Breakdown 1550 average injection rate 48,000 SCF/min. ISIP 1500#.

3rd Stage - 3105-2297' perforate 27 holes drop 500 gals 15% HCL Frac with 1,003,000 SCF/N2. Breakdown 1650# Average injection 50,000 SCF/Min. ISIP 1700

WELL LOG

	Professional Control		REMARKS
FORMATION COLOR HARD OR SOFT	TOP FEET	BOTTOM FEET	Including indication of all fresh and salt water, coal, oil and gas
Soil Shale & Sand Gray Shale Red & Red&Gray Red Rock Red Soft Shale Sand Gray Soft Sand Shale Soft Sand Shale Shale Shale Soft Sand Shale Soft Shale Soft Sand Shale Soft	0 12 200 360 940 1060 1139 1170 1248 1286 1385 1440 1530 1575 1610 1680 1845 1862 2945	12 200 360 940 1060 1139 1170 1248 1286 1385 1440 1530 1575 1610 1680 1845 1862 2945	Water @ 230' Salt Water @ 1340' Electric Log Sunbury Base 2296' Gordon Zone 2664-2701 Ben.Zone 4564' Rhinestreet 4880

(Attach separate sheets as necessary)

Bow Valley Petroluem, Inc.

Well Operator

Bart Roberts

09/29/2023

Date: January 13, 1984

Note: Regulation 2.02(i) provides as follows:

"The term 'log' or 'well log' shall mean a systematic detailed geological record of all formations, including that, encountered in the drilling of a well."

Permit No. 169 - 1679

STATE OF WEST VIRGINIA

DEPARTMENT OF MINES

OIL AND GAS WELLS DIVISION



INSPECTOR'S WELL REPORT

OIL & GAS DIVISION

EPT. OF MINES

Company Bow Valley CASING AND USED IN LEFT IN PACKERS Size Address_ 16 Kind of Packer____ 13_ Well No. Size of____ County 81/4___ 65%___ Depth set____ Drilling commenced___ 5 3/16__ Drilling completed_____Total depth_ Perf. top____ Date shot_____Depth of shot__ Perf. bottom____ Liners Used Initial open flow_____/10ths Water in__ Perf. top____ _Inch Perf. bottom_ Open flow after tubing _____/10ths Merc. in ____ Inch Volume_ _Cu. Ft. CASING CEMENTED____ SIZE____No. FT.____Date NAME OF SERVICE COMPANY Rock pressure____ lbs_ ___bbls., 1st 24 hrs. COAL WAS ENCOUNTERED AT____FEET__ Fresh water_ _feet_ feet FEET INCHES FEET_ INCHES Salt water_ feet FEET INCHES FEET_ INCHES (des 14 Drillers' Names. Remarks: 338' of 1134" casing, Hall.

7-29.83

Uso m 09/29/2023

DATE

STATE OF WEST VIRGINIA

DEPARTMENT OF MINES

OIL AND GAS WELLS DIVISION

INSPECTOR'S PLUGGING REPORT

Permit No.	UEPT			We	II No	
COMPANY			ADDRESS	and the second second		
ARM		DISTRIC	Γ	COUNTY		
illing Material Used				JOURI I		
	ation	Amount	Packer	Location		on a supplied the same
PLUGS USED A	ND DEPTH PLACED		BRIDGES	1	G AND TU	
CEMENT-THICKNESS	WOOD-SIZE	LEAD	CONSTRUCTION-LOCATION	RECOVERED	SIZE	LOST
	-					
		War -	and the second second			
llers' Names						
1					and the same	
marks:						

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

DEPARTMENT OF MINES

OIL AND GAS WELLS DIVISION



INSPECTOR'S WELL REPORT

Permit No. 105-1079

OIL & GAS DIVISION
DEFT. OF MINES
OIL OF GAS WEIL

Company Bow Valley	CASING AND TUBING	USED IN DRILLING	LEFT IN WELL	PACK	ERS
Address	Size				
Farm WILSON	16			Kind of Pac	ker
Well No. W / 016	13				
District B. S. County WIRT	81/4			Size of	
Drilling commenced	65/8			Depth set	
Drining commenced	5 3/16				
Drilling completedTotal depth	3			Perf. top	
Date shotDepth of shot	2			Perf. bottom	1
Initial open flow/10ths Water inInch	Liners Used			Perf. top	
				Perf. bottom	1
Open flow after tubing/10ths Merc. inInch					
VolumeCu. Ft.	CASING CEME	NTED	SIZE	No. FT	Date
Rock pressurelbshrs.	NAME OF SER	RVICE COMPA	ANY		
Oilbbls., 1st 24 hrs.	COAL WAS EN	COUNTERED	AT	FEET	INCHES
Fresh waterfeetfeet	FEET	INCI	HES	FEET	INCHES
Salt waterfeetfeet	FEET.	INCI	HES	FEET	INCHES
Drillers' Names Day Des. 14					
Remarks:	6.	· horas	01 AH 00-	E. C	
Hale completed, H& Co	asky made	, men	comm	,	
Remarks: Hale completed, H'b" Co	ut is so	ut don	n.		

8.3.83

We um 6999/2023

DEPARTMENT OF MINES

OIL AND GAS WELLS DIVISION

INSPECTOR'S PLUGGING REPORT

Permit No				Wel	I No	
COMPANY			ADDRESS			
FARM		DISTRICT		COUNTY		
Fillin g Ma terial Used						
Liner I	Location	Amount	Packer	Location		
PLUGS USEI	AND DEPTH PLACED		BRIDGES	CASIN	G AND TU	BING
CEMENT-THICKNESS	WOOD-SIZE	LEAD	CONSTRUCTION-LOCATION	RECOVERED	SIZE	LOST
Orillers' Names						
Remarks:						
DATE	I hereby certify I	visited the abov	e well on this date.			

DISTRICT WELL INSPECTOR

DEPARTMENT OF MINES OIL AND GAS WELLS DIVISION



INSPECTOR'S WELL REPORT OIL & GAS DIVISION

pany Baw Valley	CASING AND TUBING	DRILLING	LEFT IN	PACKERS	
· css	Size	~ p - × 1 ×		4 7	7 33 1
Wilson	16			Kind of Packer	
No. w/ 0/0	13		NE.		
ct B.S. County wit	10			Size of	Makel Conse
g commenced	65%	granica della di	January Bank Constant	Donth and	*2
g completedTotal depth	5 3/16		and the second con-	Depth set	15 000
hotDepth of shot	32		Superior States	Terr. top	
open flow/10ths Water inIn	AND PRICE OF STREET			Perf. bottom	
low after tubing/10ths Merc. inIn			C 100 1 100 1 100 1	Perf. bottom	
Cu. 1		TED	SIZE	No. FT	
essurelbsh				No. FT.)ate
bbls., 1st 24 h	rs. COAL WAS ENC	OUNTERED A	\TI	FEETINCH	
erfeetfe	1		a e trecerosia		2,5
terfeetfe	etFEET	INCHE		PEET	
' Names				EETINCH	_
					_

DEPARTMENT OF MINES

OIL AND GAS WELLS DIVISION

INSPECTOR'S PLUGGING REPORT

Permit Ne.				We	11 No	
COMPANY	(m; (h))		ADDRESS		Server and the server of	
ARM		DISTRIC	TC	OUNTY		
illing Material Used						
ner Lo	cation	Amount	Packer	Location		Televis .
PLUGS USED	ND DEPTH PLACED		BRIDGES	CASIN	G AND T	UBING
CEMENT-THICKNESS	WOOD-SIZE	LEAD	CONSTRUCTION-LUCATION	RECOVERED	SIZE	LOST
					Carlo San Miles	
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			\		e minute a management	
			The second second	A Comment		. X2
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					d * 1. 1 - 2 - 2.	real and
					An	1 20 100 1
			, , , , , , , , , , , , , , , , , , ,			
llers' Names				August		
ners walles		Selfen and the				to a wear over the dis-
marks:						

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

DATE

1.0 API well number: (If not available, leave blank. 14 digits.)	47 105	1079
2.0 Type of determination being sought: (Use the codes found on the front of this form.)	107 Section of NGPA	Category Code
 Depth of the deepest completion location: (Only needed if sections 103 or 107 in 2.0 above.) 	5002	- MAR - 5 1984
4.0 Name, address and code number of applicant: (35 letters per line maximum. If code number not available, leave blank.)	Bow Valley Petroleum, Inc. Name 600 Commerce Square Street Charleston, City	OIL & GAS DIVISIONS DET. DE A SMIER Code WV 25301 State Zip Code
5.0 Location of this well: [Complete (a) or (b).] (a) For onshore wells (35 letters maximum for field name.)	BURNING SPRINGS Field Name WIRT County	State -
(b) For OCS wells:	Area Name Date of Lease: Mo. Day Yr.	Block Number OCS Lease Number
(c) Name and identification number of this well: (35 letters and digits maximum.)	WILSON WI OI	0
(d) If code 4 or 5 in 2.0 above, name of the reservoir: (35 letters maximum.)		•
6.0 (a) Name and code number of the purchaser: (35 letters and digits maximum. If code number not available, leave blank.)	Columbia Gas Transmission	n Corp 04030 Buyer Code
(b) Date of the contract:	Mo. Da	y Yr.
(c) Estimated annual production:		MMcf.
	(a) Base Price (b) Tax (\$/MMBTU)	(c) All Other Prices [Indicate (b) and (c) (b) and (c)
7.0 Contract price: (As of filing date. Complete to 3 decimal places.)	5.718	
8.0 Maximum lawful rate: (As of filing date. Complete to 3 decimal places.)	5.7/8	
9.0 Person responsible for this application: Agency Use Only Date Received by Juris. Agency MAR 5 1984	Robert Hart Name Robert Hart Signature	General MgrV.P.
Date Received by FERC		(304) 344-8393
	Date Application is Completed	Phone Number

PARTICIPA	ANTS: PERATOR: Bow Valley	Petroleum, APR 25 1984	BUYER-SELLER COL
FIRST	PURCHASER: Columbia	Gas Trans.	004030
OTHER:	Dev		
	Department of Mines, Oil & Gas Div LL DETERMINATION FILE NUMBER	APPROVI	2D
	0305.107.105:1079		*
	bove File Number on all Communicat	APR 27 1984	
	ating to Determination of this Well		i
	CHECK EACH ITEM AS	COMPLETE OR NOTE WHAT IS MISSING	
ITEM NO			
		ems not completed - Line No.	
2.	V-1 Agent		
3.	IV-V Well Permit		
4.			
5.		Drilling Dee	/
6.	IV-36 Gas-Oil Test: Gas O	only Was Oil Produced?	Ratio
7.	IV-39 Annual Production	years	
8.	IV-40 90 day Production	Days off line:	
		ification. Complete?	
10-17.	IV Form 51 - 52 - 53 - 54	- 55 - 56 - 57 - 58 Complete.	Affidavit Signed
18-28.		Logs Geological Charts	
	Structure Map _ Gas Analyses	1: 4000 Map We	ll Tabulations
(5)		Date completed	Deepened
	Production Depth:		
(5)	Production Formation:		
(5)	Final Open Flow:		
	After Frac. R. P.		
	Other Gas Test:		5
		Production:	
		y ending w/1-120 days	
	Line Pressure:		PSIG from Daily Ro
		From Completion Report	
		cate enbanced recovery being done	
		Notarized?	
		e Department confirm the submitted inf	
		Does computer program confirm?	
	ermination Objected to		
was be	Actimitation objected to		
,			

DEPARTMENT OF MINES, OIL AND CAS DIVISION

Date Feb 29 . 1984

Operator's WI 010

API Well No. 47 - 105 - 1079 State County Termit

STATE APPLICATION FOR WELL CLASSIFICATION

Previous File No. (If Applicable)

WELL OPERATOR BOW Valley Petroleum Inc.	D 1 - 1 - 1
Address 600 Commerce Sq.	DESIGNATED ACENT Robert N. Hart
Charleston, WV 25301	ADDRESS 600 Commerce Sq.
Con D	Charleston, W 25301
Heter Chart Code and Dat	(Month, day and year)
Name of First Purchaser Columbia Gas Transmis	
Box 1273	SIGH COLPOTATION
Charleston (Street or).	O. Box)
(State	25325 (Zip Code)
FERC Seller Code	FERC Buyer Code
TYPE OF DETERMINATION BEING SOUGHT:	
(2) Determination that increase (2) Determination that increase (3)	Section of NGPA
recovery technology.	he result of enhanced . Category Code
(3) Determination of a seasonally affected well.	•
Na.	Robert Hart Vice President-General Manage
· X	Folest Hart
	gnature
St	600 Commerce Sq.
	Charleston. WV 25301
Ci	State (Zip Code)
ATT	04 344-8393 Phone Number
: . Coo	de Ruiser
(Certificate of Proof of Service to Purchaser)	
Mailed copy to Columbia Gas Transmission -	Contract DEpartment c/o Jackie Sydnor
	i during by and
(All of the above to be completed by the Operator/Appl	icant)
(To be completed by Jurisdictional Agency. Executed c purchaser, if known).	opy to be returned to Operator/Applicant and
FTL - P	
under Section 108 of (NGPA); or for determination	tion is the result of enhanced recovery technology
All interested parties are hereby notified the office of the Oil and Gas Division in Charleston, be heard there will be a public hearing, if requested,	hat on the day of
This Application is assigned File No:	of it objection is filed.
Initial review of information submitted indientitled to certification as claimed under the Natural and any additional evidence will be made at the time as the matter may be heard.	Gates the well is, [is not Gas Policy Act (NGPA). A review of this evidence populated for a public hearing or as soon there.
Unless objections are timely filed or a required to the description of the determination.	
	VIRGINIA DEFARTMENT OF MINES
MAR 5 1984	Director
Date received by	Ву
Jurisdictional Agency	Title 09/29/2023

Title ____

Date 2/29/84

DEPARTMENT OF MINES OIL AND GAS DIVISION

Operator's WI-010

API Well No.

47 - 105 - 1079 State County Permit

WELL CLASSIFICATION FORM

HIGH COST GAS WELL	- DEVONIAN SHALE
NGPA Sect	tion 107
	DESIGNATED AGENT Robert N. Hart
	ADDRESS 600 Commerce Square Charleston, WV
WELL OPERATOR Bow Valley Petroleum	LOCATION Elevation 894.79 Watershed Standingstone Creek
ADDRESS 600 Commerce Square	Dist. B. SpringsCounty Wirt Quad. Girta
Charleston, WV 25301	Gas Purchase
GAS PURCHASER Columbia Gas Transmission ADDRESS P.O. BOX 1273	Meter Chart Code
Charleston, WV 25325	Date of Contract
	vell and explain how this was calculated.
O.0000347 IS A FACTOR TAKING IN TEMPERATURE AND SUPERCOMPRES	TO ACCOUNT
PWH - WELL HEAD PRESSURE L - DEPTH TO MIDDLE OF PRODUCING FORM. G - SPECIFIC GRAVITY OF THE GAS TWH - TEMPERATURE AT WELL HEAD OF TEH - TEMPERATURE BOTTOM HOLE OF	TIDAVIT
described in subparagraph (3)(i) or (3)(ii	ge of the producing interval which is not rindex of less than 0.7 if a Gamma Ray log (A) has been filed, or as indicated by the (B); I have demonstrated that the percentage

s equal to or less than five (5) percent of the gross Devonian age interval; and I have no knowledge of any information not described in the application which is inconsistent with a conclusion that the well qualifies as a high-cost natural gas well.

STATE OF WEST VIRGINIA

I, Helen Mus Sudardes, a Notary Public in and for the state and county aforesaid, do certify that Charles & Roberte, whose name is signed to the writing above, bearing date the 29 th day of February, 19 8 69/29/2023 acknowledged the same before me, in my county aforesaid.

Given under my hand and official seal this 29th day of February, 1984 My term of office expires on the 25 th day of Que, 1988.

(NOTARIAL SEAL)

APPLICATION	FOR DI	ETERM	INATION	OF	THE	MAXI	MUM	LAWFUL
			NATURAL					

Operator: Bow Valley Petr	olewn	Agent:	BART	ROBERTS
Type Determination being	sought - 107	(Devonian	Shale)	
API Well No.: 47 105	1079	Well Name:	W1/50	N
West Virginia Office of References: SJA File No	Oil and Gas	County:	Wirt	
Vol Page L	ine			
(c) interva	line represe	nting 0.7 x Ray units	: (Shale I less than	Base Line), n 0.7 x (Shale
II. Gamma Ray elevatio	n indices:	2		
A. Shale B	ase Line (API	Units)		
2. Rem	Value at Base arks:		30 * AP	I Units
B. Gamma R	ay Log Value	at 0.7 x Va	lue at Ba	ase Line
1. GR 2. Cal :		7 (GR Value 7 (<u>/80</u> *)	= <u>126</u> 1	API Units
Interval	Thi	ckness		f less than*
· From** To		nterval eet	0.7 (Sha	ale Base Line) Feet
2297. 50	2	705		25
	•			ter
		,		
			•	
	· · · · · · · · · · · · · · · · · · ·	-0.1		
Total Devonial	In erval 27	705 .		•
Total Less Than 0.7 (Sha	le Base)	•		25
% Less Than 0.7 (Shale B	ase Line) = 0	092 x 100	=0.92 %	
*Marked on log include **Top of Devonian Secti ***Lesser of TD or Botto in this Column.	on Recorded o	n First Int	erval in	. 09/29/2023 this Column. s last Interval





State of West Virginia

Department of Mines Gil and Gas Bivision Charleston 25305

FINAL INSPECTION REPORT INSPECTORS COMPLIANCE REPORT May 30, 1984



OIL & GAS DIVISION

DEPT. OF MINES

COMPANY	Bow Valley Petroleum, Inc.	PERMIT NO	105-1079
600	Commerce Square	FARM & WELL N	O Herbert Wilson 0/
Char	leston, West Virginia 25301	DIST. & COUNT	Y BurningSprings/Wirt
		ı	N COMPLIANCE
RULE	DESCRIPTION	Y	TES NO
23.06	Notification Prior to Starting W	ork	
25.04	Prepared before Drilling to Preve	ent Waste	
25.03	High-Pressure Drilling		
16.01	Required Permits at Wellsite		
15.03	Adequate Fresh Water Casing		
15.02	Adequate Coal Casing		
15.01	Adequate Production Casing		
15.04	Adequate Cement Strenght		
15.05	Cement Type		
23.02	Maintained Access Roads		
25.01	Necessary Equipment to Prevent Wa		
23.04	Reclaimed Drilling Pits		
23.05	No Surface or Underground Pollut:		
23.07	Requirements for Production & Gar	thering Pipelines	
16.01	Well Records on Site		
16.02	Well Records Filed		
7.05	Identification Markings		V
I HAVE	INSPECTED THE ABOVE CAPTIONED WELL	AND RECOMMEND THAT	IT BE RELEASED:

DATE

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

January 4, 1985

DATE

See Line E

COK / 65 PAGE 88 Leave No 2527 AND GAS LEASE 105-1079 24th day of August AGREEMENT, made and entered into this _____ by and between Herbert & Wilson and Lillian C. Wilson, husband 13,320 ISLAND LAKE Rd of Chelsen Michigan party of the first part, hereinafter called Lessor (whether one or more), and Bow Unlley Petroleum Two party of the second part, hereinafter called Lessee; 1. WITNESSETH: That the Lessor, in consideration of the sum of One Dollar, the receipt of which is hereby acknowledged, and the covenants and agreements hereinafter contained, does hereby grant unto the Lessee all of the oil and gas and all of the constituents of either in and under the land hereinafter described, together with the exclusive right to drill for, produce and market oil and gas and their constituents; the right to use free from royalty, sufficient oil, gas and water produced from the premises for all operations thereon (provided it finds said water at its own expense), the right to enter thereon at all times for the purpose of drilling and operating for oil, gas and water, erecting cathotic protection sites, tanks, machinery, structures, electric and telephone lines; to lay pipelines for the transportation thereon and thereover of oil, gas or water from said premises or other lands operated by the Lessee; the right to construct roadways to well sites and pipelines both on and off the leased premises and to possess, use, and occupy so much of said premises as is necessary and convenient for said purposes and to convey the above named products therefrom or thereto by pipe lines or otherwise; said District, Township, County of Which State of West Yinginia and described as follows, to-wit: Bounded on the BURNING SPRINGS NORTH by lands of Notting ham and Adams EAST by lands of ____ 1983 AND George W BONAR SOUTH by lands of _______ WEST by lands of Wheatow Heres Containing Seventy eight (78) acres, more or less, and being the same land conveyed to Lessor by by deed dated DEPT. OF Book No. recorded in said county records in ... 3. The royalties to be paid by lessee may be paid either quarterly or annually and are: (a) on oil, one-eighth of that produced and saved from said land, the same to be delivered at the wells or to the credit of lessor into the pipelines to which the wells may be connected; lessee may, from time to time, purchase any royalty oil in its possession, paying the market price therefor prevailing for the field where produced on the date of purchase, and lessee may sell any royalty oil in its possession and pay lessor the price received by lessee for such oil computed at the well; (b) on gas, including casinghead gas or other gaseous substance, produced from said land and sold or used off the premises or for the extraction of gasoline or other product therefrom, the market value at the well of one-eighth of the gas so sold or used, provided that on gas sold by lessee the market value shall not exceed the amount received by lessee for such gas computed at the mouth of the well, and on gas sold at the well the royalty shall be one-eighth of the amount realized by lessee from such sale. If the price of any mineral or substance upon which royalty is payable hereunder is regulated by any governmental agency, the market value or market price of such mineral or substance for the purpose of computing royalty hereunder shall not be in excess of the price which lessee may receive and retain; provided, Lessee shall pay Lessor a royalty at the rate of Fifty Dollars per year on each gas well while, through lack of market, gas therefrom is not sold or used off the premises, and while said royalty is so paid said well shall be held to be a paying well under paragraph 2 hereof. 4. Lessee agrees to pay a rental of few dollars per nere for each fuclve day of August operations for a well on the premises are delayed from the 244h.

19 82. The consideration first recited herein, the down payment, shall cover not only the privilege granted to the date when first said rental is payable as aforesaid, but also the Lessee's option of extending that period as aforesaid, and any and all other rights conferred. The drilling of a non-productive well shall be accepted by the Lessor in lieu of delay rental for a period of one year after its completion, and following the exhaustion or abandonment of all wells the Lessee shall have the right for a period of one year to resume the payment of delay rental or commence operations for another well. Upon the resumption of payment of rentals the provisions hereof governing such payment and the effect thereof shall continue in force as though they had not been interrupted. 5. All moneys coming due hereunder shall be paid or tendered to fleebeat d. Wilson's belling C. Wilson

direct, or by check payable to his (or her) order mailed to 13320 Island Lake load, Ckelsen, Michigan, and no default shall be declared against the Lessee by the Lessor for failure of the Lessee to make any payment or perform any conditions provided for herein unless the Lessee shall refuse or neglect to pay or perform the same for ten days after having received written notice by registered mail from the Lessor of his intention to declare such default.

6. Lessee shall have the right to use any formation underlying the leased premises for the storage of gas and shall have all rights and rights-of-way necessary to store and produce such stored gas. As full payment for such storage rights, the Lessee shall pay to the Lessor a rental at the rate of the per acre per year, while the premises are so used, and so long as the storage payment is made, all provisions of this lease shall remain in full effect.

7. No part of the surface of the leased premises shall, without the written consent of Lessee, be let, granted or licensed by Lessor to any other party for the location, construction or maintenance of structures, tanks, pits, reservoirs, equipment, or machinery to be used for the purpose of exploring, developing, or operating adjacent lands for oil, gas or other minerals.

8. Lessor further grants to the Lessee, his heirs and assigns, the right to unitize this lease with other leases to form a drilling unit or units according to the rules and regulations which may be adopted for the proper development and conservation of the field. In the event this lease is so unitized, the Lessor agrees to accept, in lieu of the royalty hereinbefore recited, such proportion of the royalty above provided, as the acreage covered by this lease bears to the total acreage comprising the unit.

9. If said Lessor owns a less interest in the above described land than the undivided fee simple estate therein, then the royalties and rentals herein provided shall be paid the Lessor only in the proportion which his interest bears to the whole and undivided fee.

10. No well may be drilled nearer than 200 feet to the house or barn now on said premises without the written consent of Lessor. Lessee shall have and enjoy all rights and privileges necessary and convenient for the proper use and development of this lease, and shall have the right to use, free of cost, gas, oil and water produced on said land for its operations thereon, except water from wells of Lessor. Lessee shall also have the right at any time to remove all or any part of the machinery, fixtures or structures placed on said premises, including the right to draw and remove casing pay for damages caused by its operations to growing crops on said lands.

11. The interest or estate of either party hereto may be assigned, the privilege of assigning in whole or in part expressly allowed. In event this lease shall be assigned as to any part or parts of the above described land and the assignee or assignees of such part or parts fail or make default in the payment of the proportionate part of the rents due from him or them, such default shall not operate to defeat or affect this lease insofar as it covers a part or parts of said land upon which the said Lessee or any assignee thereof shall make due payment of said rental. No change of ownership in the land or in the rentals or royalties shall be binding on the Lessee until after notice to the Lessee and it has been furnished with a written transfer or assignment or a certified copy thereof.

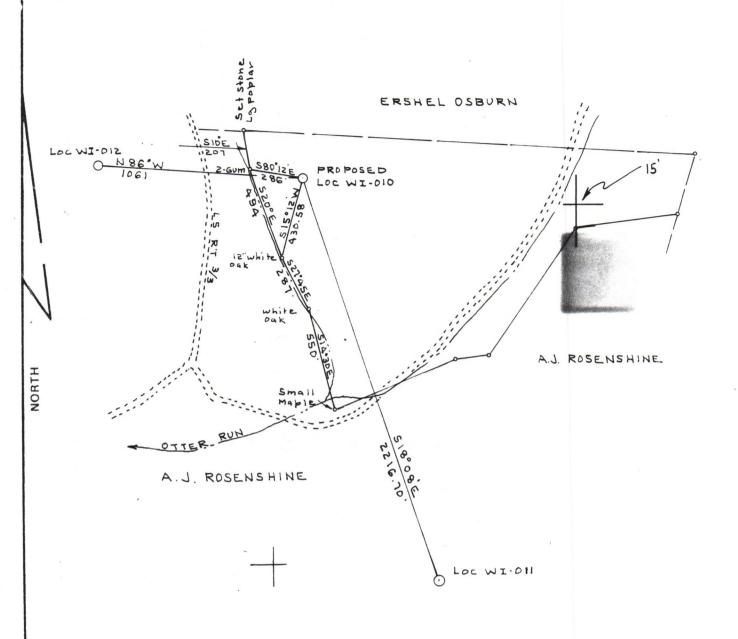
shall provide Regulators the house of Lesser. All gas over socood en ext to later for All kockups from the well head for at the well head price to the Lessee 12. At any time, Lessee, its successors or assigns, shall have the right to surrender this lease or any part thereof for cancelation, after which all payments and liabilities thereafter shall cease and determine, and if the whole is surrendered, then this lease shall become absolutely null and void. This surrender may be made to the Lessor, or if more than one then this lease shall become absolutely null and void. This surrender may be made to the Lessor, or if more than one Lessor, then to any one of them, or to the heirs or assigns of any one of them by delivery of a duly executed surrender thereof in person or by mail addressed to the post office address of such person, or by recording a duly executed surrender thereof in the recorder's office of the County in which the land is located. be proid 13. Lessor hereby warrants and agrees to defend the title to the land herein described and agrees that the Lessee at its option may pay, discharge or redeem any taxes, mortgages, or other liens existing, levied, or assessed on or against the above described lands, and in event it exercises such option, it shall be subrogated to the rights of any holder or holders thereof and may reimburse itself by applying any royalty or rentals accruing hereunder to the discharge of any such taxes, mortgages or other liens. 14. It is expressly agreed that if the Lessee shall commence drilling operations at any time while this lease is in force, it shall remain in force and its terms continue so long as such operations are prosecuted, and if production results therefrom, then as long as production continues. If after the expiration of the term of this lease production from the leased premises shall cease from any cause, this lease shall not terminate provided Lessee resumes operations within sixty days premises shall cease from any cause, this lease shall not terminate provided Lessee resumes operations within sixty days premises caused in the prosecution of such operations, and, if production from such cessation, and this lease shall remain in force during the prosecution of such operations, and, if production results therefrom, then as long as oil or gas is produced in paying quantities. 15. This lease embodies the entire contract and agreement between Lessor and Lessee, and no warranties, representations, promises or inducements not herein expressed have been made or relied upon by either party. The terms, conditions and stipulations hereof shall extend to the respective heirs, executors, administrators, successors and assigns of the parties Lessee shall maintain well read in passable condition during natural deilling apenations Lessee shall hereto. Beclain the land used during desthing to as wear original asudition as possible. Witness the hands and seals of the parties hereto the day and year first above written. __(SEAL) (SEAL) __(SEAL) (SEAL) (SEAL) (SEAL) (SEAL) Prepared by: Princy M. Knoghi Go Commence g. Charleston Wi WEST VIRGINIA ACKNOWLEDGMENT STATE OF WEST VIRGINIA To-wit: COUNTY OF a Notary Public of said County, do hereby certify that Wilson and fellion (Welson) day of august, 1982 whose name out signed to the within writing bearing date the 24.1/10 had this day acknowledged the same before me in my said County. , 19 8E _ day of ___ 24th Given under my hand this ____ Notary Public Survey 8th, 1984 My Commission expires WEST VIRGINIA ACKNOWLEDGMENT STATE OF WEST VIRGINIA To-wit: COUNTY OF _ , a Notary Public of said County, do hereby certify that _ day of _ whose name ____ signed to the within writing bearing date the ____ this day acknowledged the same before me in my said County. _ day of _ Given under my hand this ____ Notary Public My Commission expires mission of Wirt County lecorded in the Office of tor COMMEN RECORDING DATA on W. Clerk Wirt County the CEOSQUARE Clerk of at 8:300 clock the County Com-

ones

1000064

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LATITUDE 39" 05'00"



FILE NO. BK 77 PG 46 DRAWING NO .__ SCALE 1 "= 500 MINIMUM DEGREE OF ACCURACY_1-200 PROVEN SOURCE OF ELEVATION USGS Rd Forks S.W. LOC E1 733.0

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

(SIGNED)_ L.L.S. 92 R.P.E



09/29/2023

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(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS FORM IV-6

(8.78)



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

DATE JUNE 9 OPERATOR'S WELL NO. WI I - 010 API WELL NO.

1079 105 47 -COUNTY

WELL TYPE: OIL ___GAS_X_LIQUID INJECTION___ WASTE DISPOSAL. (IF "GAS,") PRODUCTION X STORAGE ___ DEEP___ SHALLOW X

LOCATION: ELEVATION 894.79 WATER SHED OTTER RUN _COUNTY_WIRT

DISTRICT BURNING SPRINGS

QUADRANGLE GIRTA 7.5 _ACREAGE _45

SURFACE OWNER HERBERT WILSON OIL & GAS ROYALTY OWNER HERBERT WILSON, ETAL LEASE ACREAGE 79

LEASE NO ..

PROPOSED WORK: DRILLX_CONVERT___DRILL DEEPER___REDRILL___FRACTURE OR STIMULATE___PLUG OFF OLD FORMATION___PERFORATE NEW

FORMATION ____ OTHER PHYSICAL CHANGE IN WELL (SPECIFY)_ PLUG AND ABANDON ___ CLEAN OUT AND REPLUG_

TARGET FORMATION MARCELLUS SHALE ESTIMATED DEPTH 49.00 WELL OPERATOR BOW VALLEY PETRO. INC DESIGNATED AGENT ROBERT. W. LONG BOX 235 ADDRESS 600 COMMERCE SQUARE _ADDRESS_

CULLODEN WVA, 25510 CHARLESTON WVA 25301