FILE COPY



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

Well No. D. Knight #

3) API Well No. 47 - 001 - 2024
State County Permit

File

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

5) LOCATIO	N: Elev	ation:		1802		Watershed: _	Sand Run			_X/)
	Dist	rict:		Glade		County:	Barbour	Quadrangle:	Belingto	n
6) WELL OP	ERATOR_	Bere	a Oil	& Gas	Corp.		7) DESIGNATEI	AGENT Marl	Schumac	her
Address		(A)	Box 5	No. of the last of			Address		Box 299	
	-	Dove	r, OH	4462	2			Brio	lgeport,	WV 2633
8) OIL & GA	S INSPECT	OR TO	BE NOTIF	FIED	7	TI "	9) DRILLING CO	ONTRACTOR:		
Name	Ro	bert	Stewar	2 1	HILLIP	TRACY	Name			
Address						378 EUKI	S, WYAddress	1001	(C) E) (V	ASIN
			(304)8			1-819	8		Country Country	5111
0) PROPOSE	D WELL V	VORK:					/ Redrill			
							ate new formation		JAN 2 5 19	184
						ell (specify)			0.000 511	UCION
1) GEOLOG	CAL TARC	ET FOR	MATION,	-	naverty	5600	March 2 and 1 and	OIL	& GAS DIV	7151011
						5600 feet	× -	feet. DEP	T. OF N	IINES
13) Appro										77
						Is co	al being mined in the	e area? Yes	/ No	<u>X</u>
(5) CASING	IND LOBIL					POOTAGE	NEDWALC	II GENERAL BULLIA	l p.ov	
CASING OR TUBING TYPE		SPEC	Weight			FOOTAGE I	l .	OR SACKS	PACKI	ERS
	Size	Grade	per ft.	New	Used	For drilling	Left in well	(Cubic feet)		
Conductor	11 3/4	J55	361b	· X		30			Kinds	15.05
Fresh water	8 5/8	K55	231b	- X		900	900	to surface		15.05
Coal									Sizes	
Intermediate	41/5	T5.5	10.51	b X		5600	5600	1000' Fillup	Dontho out O	r as req
Production Tubing	11/2	J55	ALCOHOLD COURSE	-CE 15 F - SE 100 F		5500	Carrier W. Carrier		by Rule	
Liners	1-2	333	4.21	O A		.5500	5500		Perforations:	13.01
			war and	and the	Jane Gara	OBS NOTICE ON S	Amadan satata	III have a service of	Тор	Bottom
					7.10					Dottom
	100	170					oter			
						. Destroyer is a			4	
			45	CIRCUS.	OF	FICE USE	ONLY			
				44		ILLING PE			li a heni	te drow Hay
	47-	001-2	024					Februar		19 84
Permit number_	47	001-2	024						eillifb bill to	
Db::4		11		lassi's			. C			
uirements subje	ect to the co	nditions of	contained l	nerein ar	nd on the re	verse hereof. N	of permission grant	ed to drill in accordance iven to the District Oil	and Gas Insne	ctor (Refer to
No. 8) Prior to	the construc	tion of ro	ads, locati	ons and	pits for any	permitted work	In addition, the w	ell operator or his cont	ractor shall not	tify the proper
istrict oil and g	as inspector	24 hours	s before ac	tual per	mitted work	has commence	d.)			March State
	ork is as de	scribed in	the Notice	e and Ap	pplication, p	olat, and reclama	ation plan, subject t	o any modifications ar	d conditions sp	pecified on the
everse hereof.	Feb	ruary	7, 19	86					The Care Care Care Care Care Care Care Car	ARADAH DALAM
ermit expires	rec	luary	7, 17	00		unless well	work is commenced	prior to that date and p		
crimit expires _		S. Sand	The State						SEEC 11000	THER INS
		100	The state of the			The second secon				
Bond:	Agent	VI	Plat:	Casing	g Fe	e				
	Agent	1 h	Plat:V	Casing	Fe 305					

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



OFFI	CE	USE	ONL	Y

PERMIT MODIFICATIONS AND CONDITIONS (IF ANY) TO THE PROPOSED WELL WORK (A SECOND DESCRIPTION OF A SECO

Approximate train depths: Fresh Ava feat; calt feet.

14) Approximate configuration depths: Fresh Available from the fresh Available fresh Ava

OFFICE USE ONLY

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

Date(s)

Application received Follow-up inspection(s)

Well work started "IIMMAG DAIL, FAG ","

Completion of the drilling

Unis permit covering the well operator and well location shown below is evidence of permission granted to doll in accordance with the permission permit covering the permit of the permi

where the state of the state of

OTHER INSPECTIONS

Reason: Platty Casing Wide

Reason:

FORM	IV-2	(A)
Obver	se	
[8-83	1	

1) Date: December 12

2) Operator's

Well No. D. Knight #1

3) API Well No. 47 - 001 - 2024 State County Permit

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

TOTTOTT	00	3 DDF TG5	_				
NOTICE	OF.	APPLICATION	FOR	A	WELL	WORK	PERMIT

	NOTICE OF APPLICATION	FOR A WELL	WORK PERMIT		
	NER(S) OF RECORD TO BE SERVED	5(i)	COAL OPERATOR	}	
Address	Route #2			4	
(ii) Name	Belington, WV 26250	5(ii)	COAL OWNER(S) Name William	WITH DECLAR A. Cox	ATION ON RECC
Address			Address 23	6 Peufold Pla	ace .
				w Orleans, L	
(iii) Name			Name		
Address_			Address		
_		5(iii)	COAL LESSEE W.	ITH DECLARATI	ION ON RECORD
			Address		
				7	
	TO THE PERSON(S) NAMED ABOVE: You should	hara maning the			The state of the s
	 The Application for a Well Work I to be plugged, which sets out the and describes the well and its locementing program; The plat (surveyor's map) showing (3) The Construction and Reclamation plug a well), which sets out the reclamation for the site and acceptable. 	Permit on Form IV- e parties involved ocation and, if ap g the well location Plan on Form IV- plan for amount	-2(B) (or Form IV-4 if d in the drilling or copplicable, the propose on on Form IV-6; and	f the well is other work, ad casing and	
	THE REASON YOU RECEIVED THESE DOCUMEN WHICH ARE SUMMARIZED IN THE "INSTRUCTIONS" (FORM IV-2(B) OR FORM 4, DESIGNATED FOR YOU ACTION AT ALL.	VTS IS THAT YOU HA	VE RIGHTS REGARDING T	HE APPLICATION	
	erator proposes to file or has filed this for a Well Work Permit with the Administra Department of Mines, with respect to a wel and depicted on attached Form IV-6. Copie Construction and Reclamation Plan have been by hand to the person(s) named above (or before the day of mailing or delivery to the construction and person(s) named above (or before the day of mailing or delivery to the construction and person (s) named above (or before the day of mailing or delivery to the construction of the construct	at the location is of this Notice, in mailed by register	described on attached the Application, the	Virginia d Application plat, and the	
	6) EXTRACTION RIGHTS Check and provide one of the following: Included is the lease or leases or ot I hold the right to extract oil or	ther continuing co	entract or contracts b	y which	
	7) ROYALTY PROVISIONS Is the right to extract, produce or mark	through (4). (Se		Do	
	for compensation to the owner of the oil to the volume of oil or gas so extracted	or gas in place will, produced or mark	hich is not inherently keted? Yes No	provision D	198
	If the answer above is No, nothing use Affidavit Form IV-60.			70	200
The state of the s	See the reverse side for line item the required copies of the Notice an Reclamation Plan.	instructions, and nd Application, pl	for instructions conc lat, and Construction	perning [1]	SAMPLE OF THE PARTY OF THE PART
Notice and App	the information on the plication is verified	WELL	OR Berea Oil 8		
and sworm to a signed on behalf	and the Notice is alf of the Well Operator	By A	Vanta 1	Gas corp.	
In my County of	and State by Supt of Land.	Its	Superintenderess P.O. Box 5		
this My commissi	<u>Hechney</u> , 19 <u>83</u> . ion expires <u>2-18</u> , 19 <u>88</u> .		Dover, OH phone (216)364-	44622	
Notary Publistate of	Of Justarawas County,	R. CONTINI, Notary State of Ohio mission Expires Feb			

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-lb(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 § 22-4-8a 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-

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

Grantor, lessor, etc.	Grantee, lessee, etc.	Royalty	Book	Page
Dorothy Knight	Fuel Resources, Inc.	100%	81	97

COAL OWNER'S COPY



1) Date: Dec	ember	12	, 19
2) Operator's Well No.	. Knig	ht #1	
3) API Well No.	47	001	
	State	County	Permit

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

4) WELL TY			/ Gas _		Underground	storage	/ Deep	_/ Shallow/)
5) LOCATIO	ON: Fle	vation:	180)2*		Sand Run		
3) LOCATIO	Dis.	trict:	Gla	ide			Quadrangle:	Belington
6) WELLO				Cas Corp.		7) DESIGNATEI		rk Schumacher
Addres			Box 569			Address		O. Box 299
		Dove	r. OH /	4622			Bz	idgeport, WV 2633
8) OIL & G.	AS INSPEC	TOR TO	BE NOTIFIE	D	- arranded	9) DRILLING C	ONTRACTOR:	
		Robe	ry Stewa	itemal 170	' RALY	Name		
Addre						Address		B) 14/4/5/1/1/1/1
				884-7780		8		MAN AND AR
10) PROPOS	ED WELL V	WORK:	Drill	/ Drill	deeper	/ Redrill	/ Stimulate/	1
io, TROTOS	LD WEEL	ORIE.				rate new formation		JAN 2 5 1984
11) GEOLOG	GICAL TARG	GET FOR						OIL & GAS DIVISION
				5			Г	EPT. OF MINI
13) Appr	oximate trata	a depths:	Fresh,	40	feet; salt	,	feet.	last 1 a VI AVAIA 1
14) Appr	oximate coal	seam dep	ths:	_	Is co	al being mined in th	e area? Yes	/ No/
15) CASING								
CASING OR			IFICATIONS	1	FOOTAGE	INTERVALS	CEMENT FILL-UP	PACKERS
TUBING TYPE	Size	Grade	Weight per ft.	New Used	For drilling	Left in well	OR SACKS (Cubic feet)	
Conductor	11 3/	4 J55	36 1H.	X	30	at in artist coast, oben	Marie Addis, Julya Milat	Kinds
Fresh water	8 5/	B K55	23 1H.	X e	900	900	to surface	Bw Rule 15.05
Coal								Sizes
Intermediate								
Production	4 16	J55	10.53b	Y	3600	5600	1000' Fillur	Depths set Or as red.
Tubing	1 1	J55	4.216	CHARLE STEEL STEEL STEEL	5500	5500	1000	by Rule 15.01
Liners		777	78000					Perforations:
Liners								Top Bottom
			INSTR	uctions to	COAL OPERA	OR, OWNER, OR	LESSEE	
						Company of the Compan	any objection they wis	
					ed with the Depar	rtment of Mines with	nin fifteen (15) days afte	er the receipt
	of this Ap	plication	by the Depar	tment.				
		The follo	wing waiver i	nust be complete	ed by the coal or	perator and by any	coal owner or coal less	ee
							issued within fifteen (1	
		days of th	ne filing of th	e Application.				
					WAIVED			
					WAIVER			
The undersig				owner				oal under this well location has
								n added to the mine map. The all applicable requirements of
the West Virgi					ins location, pro	vided, the well open	ator has complied with	an applicable requirements of
the west virgi	ma coue and	a the gove	g regulat					
- 1	. 19		(24		1,1:00	- //	10-
Date: LAN	1.11		, 19	0		By Willie	an U	Cox
						6.11	-77	
						Its OWN K	1	

SURFACE OWNER'S COPY



1) Date:	cember	12	_, 19_33
2) Operator's Well No.	Knight	#1	
3) API Well No.	47	001	
	State	County	Permit

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

					AP	PLICATIO	ON FOR A WEL	L WORK PERMIT		
4)	WELL TYP	PE: A C	Oil	/ Ga	s X	1				
							/ Underground	storage	/ Deep	_/ Shallow/)
5)	LOCATION		evation:		802		Watershed: _	Sand Run		
		Di	strict:	0	lade				Quadrangle:	Belington
6)	WELL OPE	ERATOR	Beres	011 8	Gas	Cor on.				Schumacher
	Address			Box 56	NAME AND ADDRESS OF THE OWNER, OR OTHER			Address	P.O.	Box 299
			Dove	r, OH	44622				Brid	legeport, WV 26330
	OIL & GAS							9) DRILLING CO	ONTRACTOR:	
	Name						1RACY			
	Address	OSCIONATION OF THE PERSON NAMED IN COLUMN	SALES PROPERTY AND	STATE OF THE PERSON NAMED IN	The Control of the Co	NOTE OF THE OWNER, THE OWNER, THE	1378 ELKIN	Address		. V 4.
		Ph		(304)88			PT-8145	X		AFFRITTET
10)	PROPOSEI	D WELL	WORK:					/ Redrill	THE REPORT OF THE PARTY OF THE	ALCOROL C
								ate new formation	/	16
							vell (specify)		Las	JAN 3 - 1984
	GEOLOGIC									
	12) Estimated 13) Approx						1000			OIL & GAS DIVISION
								,	feet.	EPTNO OF MINE
	(14) Approx						IS CO	al being mined in the	e area? Yes	No
	SING OR	I IOB		CIFICATIONS		11	FOOTAGE I	NTEDVALS	1 CEMENT FILL-UP	PACKERS
	ING TYPE	Size		Weight	New	Used		NI ERY ALS		
Condu	ictor		Grade	per ft.	MEM	Useu	For drilling	Left in well	OR SACKS (Cubic feet)	PACAERS
Fresh	The state of the s	11 3/4	J55	per ft.	X	Useu	For drilling	Left in well		Kinds
	water	8 3/8	INTERNATION NAMED IN	E CONTRACTOR OF THE PERSON NAMED IN	X	Useu	THE RESERVE OF THE PERSON NAMED IN	Left in well		
Coal	water	8 3/8	J55	361b.	X	Useu	30	Non-Pro-Auto-Auto-Auto-	(Cubic feet)	Kinds
Coal	water	8 5/8	J55 K55	361b. 231b.	X X	Useu	30 900	Non-Pro-Auto-Auto-Auto-	(Cubic feet)	Kinds
Coal	nediate	3/4 8 5/8	J55 K55 J55	361b. 231b.	XXX	Useu	30 900 5600	Non-Pro-Auto-Auto-Auto-	(Cubic feet)	Kinds
Coal	nediate	1 3/4 8 3/8 4 5 1 5	J55 K55	361b. 231b.	X X	Oseu	30 900	900	(Cubic feet)	Kinds Rus 15.05 Sizes
Coal Interm Produc	nediate ction		J55 K55 J55	361b. 231b.	XXX	Useu	30 900 5600	900	(Cubic feet)	Kinds Sizes Depths set
Coal Interm Produc	nediate ction		J55 K55 J55	361b. 231b.	XXX	Useu	30 900 5600	900	(Cubic feet)	Kinds Sizes Depths set
Coal Interm Produc	nediate ction		J55 K55 J55	361b. 231b.	XXX	Useu	30 900 5600	900	(Cubic feet)	Kinds Sizes Depths set Crass Teach Perforations:
Coal Interm Produc	nediate ction		J55 K55 J55	361b. 231b.	XXX	Useu	30 900 5600	900	(Cubic feet)	Kinds Sizes Depths set Crass Teach Perforations:
Coal Interm Produc	nediate ction		J55 K55 J55	361b. 231b.	XXX	Useu	30 900 5600	900	(Cubic feet)	Kinds Sizes Depths set Crass Teach Perforations:
Coal Interm Produc	nediate ction	1%	J55 K55 J55 J55	361b. 231b. 10.51b 4.21b	XXXX		30 900 5600 5500	900 5600 5500	(Cubic feet)	Kinds Sizes Depths set
Coal Interm Produc	nediate ction g	The I	J55 K55 J55 J55 J55	361b. 231b. 10.51b 4.21b	X X X	d for surfa	30 900 3600 5500	900 5600 5500	(Cubic feet)	Kinds Sizes Depths set
Coal Interm Produc	nediate ction g	The l	J55 J55 J55 J55 aw require	361b. 231b. 40.51t 4.21b es a comme	X X X X x x x x x x x x x x x x x x x x	d for surfa	30 900 3600 5500	900 5600 5500	(Cubic feet)	Kinds Sizes Depths set

I hereby state that I have read the instructions to surface owners on the reverse side of this Application for a Well Work Permit, and that I have received copies of (1) a Notice of Application for a Well Work Permit on Form IV-2(A), (2) an Application for a Well Work Permit on Form IV-2(B), (3) a survey plat on Form IV-6, and (4) a Construction and Reclamation Plan on Form IV-9, all for proposed well work on my surface land as described therein.

I further state that I have no objection to the planned work described in these materials, and I have no objection to a permit being issued based on those materials.

(For execution by corporation, partnership, etc.	2.)	(For execution by natural persons)	
NAME:		- Whilf E Zight h. Date: 12/28/	183
Ву		(Signature)	
Its	Date	Date:	

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.) See Chapter 22, Article 4 of the W. Va. Code. Permits are valid for 24 months.

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:

Administrator of the Office of Oil and Gas West Virginia Department of Mines 1615 Washington Street East Charleston, West Virginia 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 delivered 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. 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 must 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.

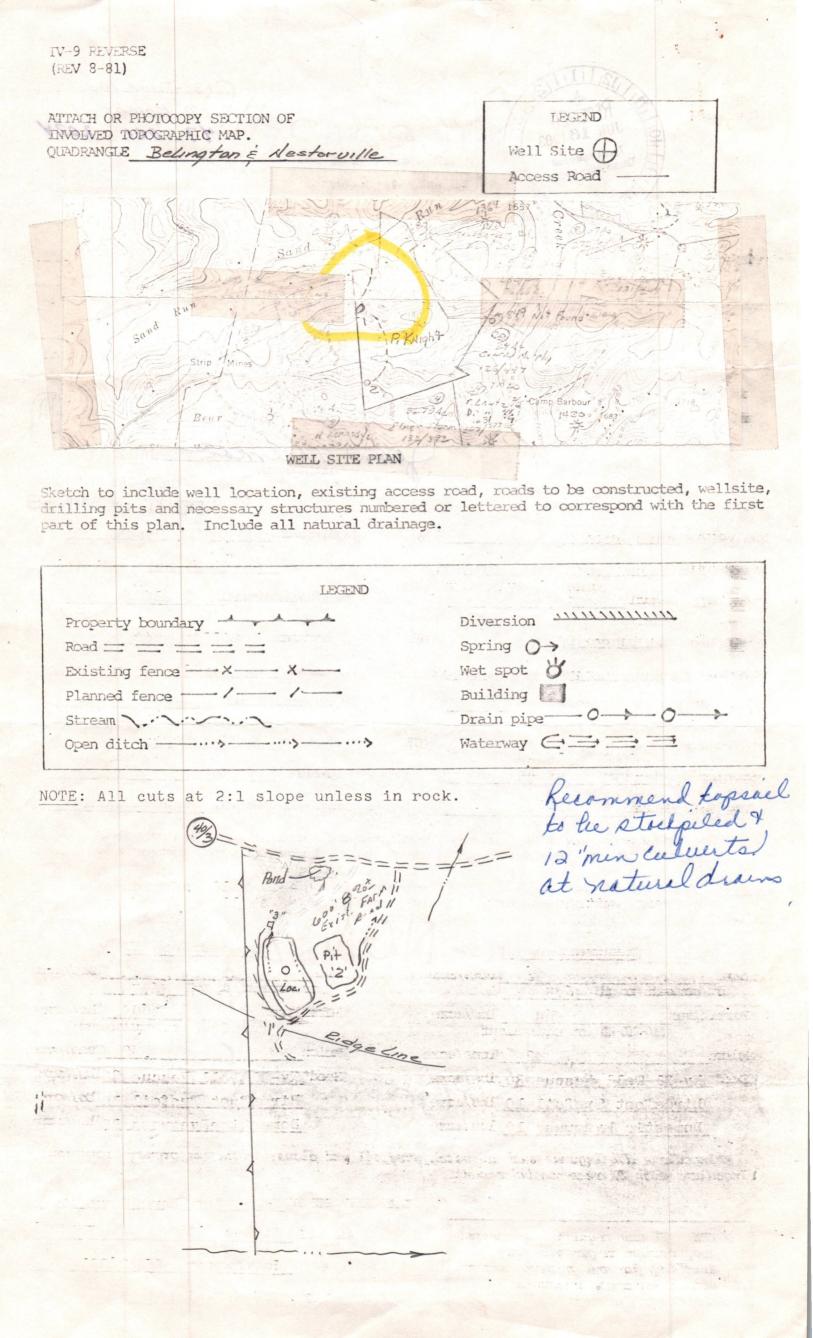
Methods for filing comments. Comments must be filed in person or received in the mail at the Administrator's office by the time stated above. Check with your postmaster to ensure adequate delivery time or to arrange special expedited handling.

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.

List of Water Testing Laboratories. 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.



IV-9 (Rev 8-81)



necessary for comments.

State of Mest Hirginia

DATE 13 June 1983 WELL NO. D. Knight -1 API NO. 47 -001 - 2024

Bepariment of Mines Gil and Gas Bivision

CONSTRUCTION AND	RECLAMATION PLAN
COMPANY NAME BEREA OIL & GAS CORP.	
901 Chemical Bank Bldg., Naddress 69 Delaware Ave., Buffalo, Naddress 60 Delaware Ave., Buffalo, Naddr	Y Address Bridgeport, WV 26330 2 Telephone 304-842-6931
Tetephone (16-642-0) 11	
LANDOWNER Phillip Knight	Operator (Agent)
Revegetation to be carried out by	. 1 11
This plan has been reviewed by Tug	arts Valley SCD. All corrections
and additions become a part of this plan:	6/19/83 0
	ean Freeman JAN 25 1984
	(SCD Agent)
ACCURACE POAR	OIL & GAS DIVISION LOCATIONET. OF MINES
AOCESS ROAD	
Structure Culverts (A)	Structure Diversion Ditch (1)
Spacing AS Shown (Min. 12" & Min. 15"	Material Soil (2% max. slope)
Page Ref. Manual 2-7	Page Ref. Manual 2-12
Structure Drainage Ditch (B)	Structure Drilling pit (2)
Spacing To be constructed along road.	Material Soil
Page Ref. Manual 2-12	Page Ref. Manual
	(3)
Structure Cross Drains (C) 5%-135' 15%-60'	Structure Sediment trap (3)
Spacing 10%-80' 20%-45'	Material Soil
Page Ref. Manual 2-4	Page Ref. Manual
All structures should be inspected reg	mularly and repaired if necessary. All
commercial timber is to be cut and stack	sed and all brush and small timber to be
cut and removed from the site before dir NOTE: Drainage to be maintained after	completion of well and seeding to
commence within 3 months ofter	completion of well.
REVERS	ETATION
Treatment Area I	Treatment Area II
Line 3 Tons/acre	Lime 3 Tons/acre or correct to pH 6.5
or correct to pH 6.5 Fertilizer 600 lbs/acre	Fertilizer 600 lbs/acre
(10-20-20 or equivalent)	(10-20-20 or equivalent)
Mulch 2 Tons/acre	
Seed* Ky-31 Tall Fescue 30 15 /acre	Seed*Ky-31 Tall Fescue 30 lbs/acre
Birdsfoot Trefoil 10 lb / cre	Birdsfoot Trefoil 10 lbs/acre
Domestic Ryegrass 10 lbs/acre	Domestic Rvegrass 10 lbs/acre
*Inoculate all legumes such as vetch, to Inoculate with 3X recommended amount.	refoil and clovers with the proper bacterium.
P	LAN PREPARED BY Ostrander Land Surveying, I
NOTES: Please request landowners'	ADDRESS PO Box 676
cooperation to protect new	Buckhannon, WV 26201
seedling for one growing season. Attach separate sheets as	

PHONE NO. 304-472-0817



FUEL RESOURCES INC.

195 Montague Street, Brooklyn, New York 11201 / (212) 643-2773 (304) 823-1776

ROBERT V. FINA Manager of Leases

October 29, 1982

Oil & Gas Division
West Virginia Department of Mines
1615 Washington Street East
Charleston, West Va.

Attention: Mr. Mike Lewis

Dear Mr. Lewis:

Please be advised that Berea Oil & Gas Corporation is Fuel Resources'Inc.'s operator. Drilling permits can be issued in their name, when they are drilling for FRI. If anything should change in the future we will let you know.

Your cooperation in this matter would be greatly appreciated.

Very truly yours,

B.V. Fina

RVF: djf

NOV 6 1982

5/2/82 Per 5th Sand: Bayard:	S OF PERFORATED 15 2148 - 2150' 2361 - 2363' 2749 - 2750'	INTERVALS, FRACTURI (4) (4) (2)	NG OR STIMULATING, PHYSICAL CHANGE, EIC. 5/2/84 Frac: Formation broke @ 2800#. ISIP 1750#, 5 min 1630#. Used 448 BW, 750 gal HCl aci 500 gal methanol, 10,000# 80/100 sand, 30,000# 20/40 sand. Avg. pump rate 24 BPM @ 2700#
5/2/84 Riley: Benson: 1st Elk:	3751 - 3755' 3931 - 3932' 3933 - 3936' 4140 - 4142'	(6) (3) (2) (3)	5/2/84 Frac. Formation broke @ 1800#. ISIP 1460#, 5 min 1380#. Used 598 BW, 500 gal MOD 202 acid. 500 gal 25% methanol, 15,000# 80/100 sand, 45,000# 20/40 sand. Avg. pump rate 26 BPM @ 2400#.

FORMATION COLOR HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all fres and salt water, coal, oil and ga
Depts taken from Drillers Log			
Dirt	0	15	
Shale	15	51	Hole Wet @ 30'
Sand	51	425	
Sand & Shale	425	660	1" stream water @ 430'
Red Rock	660	775	
Sand	775	980	
Red Rock & shale	980	1053	
Depths taken from Gamma Ray Log			
Little Lime	1053	1069	
Silt and shale	1069	1121	
Big Lime	1121	1177	
Big Injun	1177	1336	Gas Check @ 1194' no show
Silt and shale	1336	1462	Gas check & 1194 no show
Siltstone	1462	1493	
silt and shale	1493	1810	Gas Check @ 1729' no show
Gordon	1810	1958	Gas check & 1729 no snow
Silt and shale	1958	2028	
4th Sand	2028	2122	Gas checks @ 2102'no show
Shale	2122	2138	Gas checking 2102 no show
5th Sand	2138	2207	
Silt and shale	2207	2359	
Bayard	2359	2388	
Silt and shale	2388	2425	[기계 - 경기를 되었다. 기계 시민 기 - 2
Shale	2425	2590	Gas check @ 2547' no show
Speechley	2590	2670	odo oneck (2547 no show
Silt and shale	2670	2741	
Balltown	2741	3000	
Silt and shale	3000	3672	Gas check @ 3268' no show
Riley	3672	3818	Gas check @ 3766' no show
Shale	3818	3891	
Benson	3891	3956	
Shale	3956	4091	
1st Elk	4091	4229	Gas check @ 4142' no show
Shale	4229	4289	
2nd E1k	4289	4555	조시는, 그리고 있다면 기계가 그렇다 가는 것

(Attach separate sheets as necessary)

Berea Oil & Gas Corp.

Well Operator By: Thomas E. Riley, P.E., Manager of Engineering

Date: May 16, 1984

Regulation 2.02(i) provides as follows:

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

IV-35 (Rev 8-81)



State of Mest Wirginia

Bepartment of Mines Bil und Gas Bivision

Date	Мау	1	6,	198	4	1
Operati						
Well N	0	D.	Kn	ight	#1	
Farm	Phil:	Lip	Kn	ight		
APT NO	47 -	00	1	_	2024	

OIL & GAS DIVISION

DEPT. OF MINES

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

WELL OPERATOR'S REPORT

(If "Gas," Production X / Undergo	ound Storage / Deep / Sha	allow_X/)
OCATION: Elevation: 1802' Watershed_	Sand Run	
District: Glade County Ba		ton
OMPANY Berea Oil & Gas Corp.		Townst)
ADDRESS P.O. Box 299, Bridgeport, WV 26330	Casing Used in Left	Cement fill up
DESIGNATED AGENT Thomas E. Riley, P.E.	Tubing Drilling in Well	Cu. ft.
ADDRESS P.O. Box 299, Bridgeport, WV 26330	Size	
SURFACE OWNER Phillip Knight	20-16 Cond.	
ADDRESS Sand Run, Philippi WV	Cond. 11 3/4 13 3/4 13 30'	
MINERAL RIGHTS OWNER Dorothy Knight	9 5/8	
ADDRESS Sand Run, Philippi, WV	8 5/8 1005' 966'	250 sks.
OIL AND GAS INSPECTOR FOR THIS WORK Phillip	7	
Tracy ADDRESS Ellamore, WV	5 1/2	
PERMIT ISSUED 2/7/84	4 1/2 5592' 5279.6	, 760 sks.
DRILLING COMMENCED 2/28/84	3	
DRILLING COMPLETED 3/8/84	xx 1 ½ 5100'	
IF APPLICABLE: PLUGGING OF DRY HOLE ON CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED ON	Liners used	
GEOLOGICAL TARGET FORMATION Haverty Grou	Depth 50	600' feet
Depth of completed well 5592 fee	Rotary y / Cable Tools	
Water strata depth: Fresh 30, 430 fee	Salt feet	
Coal seam depths:	Is coal being mined in t	he area? No
Coal seam depths:		
OPEN FLOW DATA 5th Sand, Bayard, Balltown,		ell Treatmen
Producing formation Benson, 1 & 5th Elk	Haverty Pay zone depthDetai	is reet
Gas: Initial open flow 60 Mcf/ Test Date 5/15/84	i Oil: Initial open flow i	one Bb1/c
Final open flow 1109 MCI	Final open flow	none Bb1/0
Time of open flow between i	nitial and final tests 4	hours
Static rock pressure 1350 psig(su	face measurement) after 72 h	ours shut i
(If applicable due to multiple complete	ion)	
Second producing formation	Pay zone depth	fee
Gas: Initial open flow Mcf	d Oil: Initial open flow_	BD1/
Final open flow Mcf	d Oil: Final open flow	Bb1/
Time of open flow between	nitial and final tests	hours
Static rock pressurepsig(sur	ace measurement) after	hours shut 1

(Continue on reverse side)

Page two D. Knight #1 (47-001-2024)

DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, EIC

	all deed of the second		DISTANCE, EIC.
5/1/84 Perf.	50101	(1)	5/2/84 Frac:
5th Elk:	5019'	(1)	Formation broke @ 2600#. ISIP 1950# 5 min 1700#. Used 765 BW, 500 gal MOD 202 acid.
5/1/84 Perf.			
Haverty:	5141	(1)	15,000# 80/100 sand, 45,000# 20/40 sand,
5145'	5147'	(3)	500 gal 25% methanal. Avg. pump rate 27BPM
5154'	5156'	(3)	@ 3100#.
5164'	5166'	(3)	
5170 '	5172'	(3)	

WIIL LOG

3rd Elk Silt and shale 4th Elk Shale 5th Elk Silt and shale Haverty Silt and shale Fox	\$555 \$705 \$775 \$831 \$876 \$021 \$131 \$213 \$324 \$375	4569 4705 4775 4831 4876 5021 5131 5213 5324 5375 5611	and salt	water	coal, o	ana ga
Shale 3rd Elk Silt and shale 4th Elk Shale 5th Elk Silt and shale Haverty Silt and shale Fox	569 705 775 831 876 9021 9131 9213	4705 4775 4831 4876 5021 5131 5213 5324 5375				
3rd Elk Silt and shale 4th Elk Shale 5th Elk Silt and shale Haverty Silt and shale Fox	569 705 775 831 876 9021 9131 9213	4705 4775 4831 4876 5021 5131 5213 5324 5375				
Silt and shale 4th Elk Shale 5th Elk Silt and shale Haverty Silt and shale Fox	4705 4775 4831 4876 5021 5131 5213	4775 4831 4876 5021 5131 5213 5324 5375				
4th Elk Shale 5th Elk Silt and shale Haverty Silt and shale Fox	775 831 876 6021 6131 6213	4831 4876 5021 5131 5213 5324 5375				
Shale 5th Elk Silt and shale Haverty Silt and shale Fox	831 876 6021 6131 6213	4876 5021 5131 5213 5324 5375				
5th Elk Silt and shale Haverty Silt and shale Fox	876 5021 5131 5213 5324	5021 5131 5213 5324 5375				
Silt and shale Haverty Silt and shale Fox	021 5131 5213 5324	5131 5213 5324 5375				
Haverty Silt and shale Fox	5131 5213 5324	5213 5324 5375				
Silt and shale Fox	3213 324	5324 5375				
Fox	324	5375				
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		at the control of				

(Attach separate sheets as necessary)

Berea Oil & Gas Corp.

Well Operator

By: Thomas E. Riley, P.E. Manager of Engineering

Date: May 16, 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 only, encountered in the drilling of a well."

Permit No. 00/-2024

STATE OF WEST VIRGINIA

DEPARTMENT OF MINES



OIL AND GAS WELLS DIVISION

INSPECTOR'S WELL REPORT T. OF MILES

CASING AND	DRILLING	LEFT IN	PACK	CERS
C:		WELL		et e the comme
Size		ne was visited to		
16	3 (2		Kind of Pac	ker
13	234,21			
10		King in the Carlo	_ Size of	
81/4				the second se
65%			Depth set	
5 3/16				
3		on and the same	President and the second second	agreement of the second of the
2		10	1	
Inch Liners Used			Perf. top	
			Perf. bottom	I
_Cu. Ft. CASING CEME	NTED	SIZE	No. FT	Date
hrs. NAME OF SER	RVICE COMPA	NY		
24 hrs. COAL WAS EN	COUNTERED	AT	FEET	_INCHES
				ar according to the second
The second secon				
feet FEET_	INCH	ES	FEET	_INCHES
	Size 16	Size 16	Size 16	Size 16

2-22-84

Remarks: Bully location.

Pally Stages

DISTRICT WELL INSPECTOR

STATE OF WEST VIRGINIA

DEPARTMENT OF MINES

OIL AND GAS WELLS DIVISION

INSPECTOR'S PLUGGING REPORT

COMPANY			ADDRESS			
FARM		DISTRICT	C	OUNTY	Was a second	Augustus y Messer
Filling Material Used			MARCH TO THE RESERVE TO THE SECOND SE			
			The second secon	and the first of the same	e contract to the	
Liner Lo	cation	Amount	Packer	Location		
PLUGS USED A	ND DEPTH PLACED		BRIDGES		G AND TO	
CEMENT-THICKNESS	WOOD-SIZE	LEAD	CONSTRUCTION-LUCATION	RECOVERED	SIZE	LOST
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llers' Names						
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DATE	nereby certify I visit	ted the above v	vell on this date.			

STATE OF WEST VIRGINIA

DEPARTMENT OF MINES

OIL AND GAS WELLS DIVISION



OIL & GAS DIVISION

INSPECTOR'S WELL REPORT DEPT. OF MINES

Permit No. D/ d 024		Constitution of the Consti	Oil or	Gas Well	777311
Company Beren sil & Slas	CASING AND TUBING	USED IN DRILLING	LEFT IN	PACH	ERS
Address	Size		3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
Farm Northy Gright	16	3.50		Kind of Pac	ker
Well No.	13	980			
District Stable County Bashaus	10	4.5		Size of	
the same and the s	8½ 65/8		· · · · · · · · · · · · · · · · · · ·	B	,
Drilling commenced	5 3/16	and the second second		Depth set	Control of the second
Drilling completed Total depth 80	3		14 316 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Perf. top	
Date shotDepth of shot	2	A		Perf. bottom	
Initial open flow/10ths Water inInch	Liners Used			Perf. top	
Open flow after tubing/10ths Merc. in Inch		part conservation of		Perf. bottom	
VolumeCu. Ft.	CASING CEME	NTED		No. FT	Dat
Rock pressure lbs. hrs.	NAME OF SER	RVICE COMPA	ΥΥ	ape ayes and a total of	a primary or
Oilbbls., 1st 24 hrs.	COAL WAS EN	COUNTERED	AT	FEET	_INCHES
Fresh waterfeetfeet	FEET_	INCHI	ES	FEET	_INCHES
Salt water feet feet	FEET_	INCH	ES	FEET	_INCHE:
Company of the second s					
Drillers' Names				P	
Remarks: Silly at 80 pt			2		

DEPARTMENT OF MINES

OIL AND GAS WELLS DIVISION

INSPECTOR'S PLUGGING REPORT

ARM DISTRICT COUNTY The Location Amount Packer Location FLUGS USED AND DEPTH PLACED BRIDGES CASING AND TUBING COMPANY CONSTRUCTION—LOCATION RECOVERED SIZE LEAD SIZE LEA	MPANY	12.7		ADDRESS	a e a		and the second
Illing Material Used. PLUGS USED AND DEPTH PLACED SRIDGES CEMENT-THICKNESS WOOD-SIZE LEAD CONSTRUCTION-LOCATION RECOVERED SIZE LEAD LEAD CONSTRUCTION-LOCATION RECOVERED SIZE	7				The result of the Marketine	Market State	and the second of
TEST NAMES		A CALL	DISTRICT		COUNTY		
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CEMENT-THICKNESS WOOD-SIZE LEAD CONSTRUCTION-LOCATION RECOVERED SIZE L	r Loc	ation	Amount	Packer	Location		
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STATE OF WEST VIRGINIA

DEPARTMENT OF MINES

OIL AND GAS WELLS DIVISION



INSPECTOR'S WELL REPORT

OIL & GAS DIVISION

DEPT. of MINES

Oil or Gas Well_

				(K	IND)	
Company Besen	oil & Elas	CASING AND TUBING	USED IN DRILLING	LEFT IN	1	CKERS
Address	non a state and a second of the second of th	Size	name	2. A. 170 - B. 17 B. 17		
Farm Darlly	Quielt	16		afraj	Kind of P	icker_
Wallan		13	7,514			7
Well No.		10			Size of_	a statement.
District Made	County Bashaur	81/4				the second control
Drilling commenced		65%			Depth set_	
Drilling completed	Total depth //00	5 3/16	man rest in a state of			
and great and a second and a second and	or the contract of the contrac	3	and a construction to the second		Perf. ton	NO COLORDO DOS DE
Date shot	Depth of shot	2		no stem temp	Perf. botto	
Initial open flow	/10ths Water inInch	Liners Used		4	Perf. top_	
Open flow after tubing	/10ths Merc. inInch				Perf. botto	
action when	Cu. Ft.	CASING CEMEN	red	_SIZE	No. FT	Dat
lock pressure	lbshrs.	NAME OF SERV	ICE COMPAN	IY		o de transcription de la constant
il	bbls., 1st 24 hrs.	COAL WAS ENG	01111	errenius entariorius en N		
resh water	and the second s	COAL WAS ENC	OUNTERED A	\T	FEET	INCHES
vacer	feetfeet	FEET_	INCHE	S	FEET	INCHES
alt water	feetfeet					
rillers' Names						
Names						
emarks:						
1979					7-47-	

3-2-84

Phillip Designation well inspector

STATE OF WEST VIRGINIA

DEPARTMENT OF MINES

OIL AND GAS WELLS DIVISION

INSPECTOR'S PLUGGING REPORT

COMPANY	many many many many many many many many					
	1		ADDRESS	k nang productiva da katalang sa sa asar		7
FARM	and the second of the second of the	DISTRICT	and the same of th	OUNTY		
Filling Material Used.	A VINCE		10 to	Supplied to the second		Action 18 to
Liner Los	ation		The second secon	a const.	and the second of the second	
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	ND DEPTH PLACED	-	BRIDGES	CASIN	G AND TL	BING
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rillers' Names			The second secon	State of the state		
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	to the state of th		A CONTRACTOR OF THE CONTRACTOR WITH			
	and the second s		the second second second second second second	The same of the sa		
DATE	hereby certify I v	risited the abov	ve well on this date.			

TMS/nw





OIL & GAS DIVISION

State of West Virginia

Department of Mines Oil and Gas Division Charleston 25305

Gas Bivision DEPT. OF MINES

DATE

FINAL INSPECTION REPORT INSPECTORS COMPLIANCE REPORT May 22, 1984

	May 22, 1984		
COMPANY	Berea Oil & Gas Corp.	PERMIT NO	001-2024
P. 0	. Box 299	FARM & WELL NO	Phillip Knight #1
Brid	geport, West Virginia 26330	DIST. & COUNTY	Glade/Barbour
		Th	N COMPLIANCE
RULE	DESCRIPTION		ES A NO
23.06	Notification Prior to Starting Work		
25.04	Prepared before Drilling to Prevent	Waste	
25.03	High-Pressure Drilling		
16.01	Required Permits at Wellsite		
15.03	Adequate Fresh Water Casing		
15.02	Adequate Coal Casing		
15.01	Adequate Production Casing		
15.04	Adequate Cement Strenght		
15.05	Cement Type	- Contraction of the Contraction	
23.02	Maintained Access Roads		
25.01	Necessary Equipment to Prevent Wast	e	
23.04	Reclaimed Drilling Pits	-	
23.05	No Surface or Underground Pollution		
23.07	Requirements for Production & Gather	ring Pipelines	
16.01	Well Records on Site		
16.02	Well Records Filed		
7.05	Identification Markings		
I HAVE I	NSPECTED THE ABOVE CAPTIONED WELL AND	RECOMMEND THAT I	T BE RELEASED:
		s_{IGNED} \mathcal{Z}	10/3/84
		DATE	10/3/84
Your wel	l record was received and reclamation	roguitroments	manual Translation
with Chap	pter 22, Article 4, Section 2, the ab for the life of the well.	sove well will rem	ain under bond
		7-4	rest
		Administrator-	Oil & Gas Division
		December	17, 1984

.0/

APPLICATION FOR DETERMINATION OF THE MAXIMUM LAWFUL PRICE UNDER THE NATURAL GAS POLICY ACT (NGPA)

1.0 API well number:		4.7	- 001 - 2 - 2	024 - 0000	
(If not assigned, leave blank, 14 digits.)	1	4/	001 - 2 - 2	024 - 0000	
2.0 Type of determination being sought					
(Use the codes found on the front	i	Service -	102	3	
of this form.)	1	Sec	tion of NGPA	Category Code	
3.0 Depth of the deepest completion			37 / A		
location. (Only needed it sections 103	1		N/A	teet	
or 107 in 2.0 above 1	1				
4.0 Name, address and code number of	i				
applicant. (35 letters per line	Bere	ea Oil & Gas (Corp.		
maximum. If code number not	Name				Seller Code
available, leave blank.)	P. (D. Box 299			
	Street				
	Brio	dgeport	WV	26330	3.35
	City		Stat	e Zip Cod	e
5.0 Location of this well. (Complete (a)	1				
or (b).]	Glad	de Dist.			
(a) For onshore wells	Field N	ame			
(35 letters maximum for field	Bart	oour	WV		
name.)	County		Stat	e	
(b) For OCS wells:	1				
	1	N/A			
	Area Na	me		Block Num	ber
	1				
	i	Date	of Lease:		
	1	111	1111		
	i	Mo.	Day Yr.	OCS Lease Number	
(c) Name and identification number	1				
of this well: (35 letters and digits	!	D. Knight #	1		
maximum.)	!				
(d) It code 4 or 5 in 2.0 above, name	1				
of the reservoir: (35 letters	1	N/A			
maximum.)					
6.0 (a) Name and code number of the					
purchaser: (35 letters and digits	1				
meximum. If code number not	Broo	oklyn Union Ga	s Corp.		
evallable, leave blank.)	Name				Buyer Code
(b) Date of the contract:	1				
	Not	available	1 1 1 1 1	1 1	
	1		Mo. Day	Yr.	
(c) Estimated total annual production	!				
from the well:			2 3	Million Cubic	Feet
	1				
	1			(c) All Other	(d) Total of (a).
	! !	(a) Base Price	(b) Tax	Prices Indicate	(b) and (c)
	<u> </u>			(+) or (-).]	10, 0110 10,
7.0 Contract price:	1				
(As of filing date. Complete to 3	S/MMBTU	3 6 8 0	0 3 1 8		3 9 9 8
decimal places.)			south 4 districts provide briefly		
B.O Maximum lawful rate:	1				
(As of filing date. Complete to 3	S/MMBTU	3 6 8 0	0 3 1 8		3 9 9 8
decimal places.				division 9 sources average graveria	Carrier & Streets Streets Signed
9.0 Person responsible for this application:					
	Thom	nas E. Riley,	P.E., Manager	of Engineerin	g
Agency Use Only	Name	, 1	0.1	Title	
Mare Received by Julis Agency	1h	omas &	Liley		
MAT 171984	Signature		//	(001)010	(021
Pate Received by FERC	M	lay 16, 1984		(304)842-	0931
		lication is Completed		Phone Number	
FRC-121 (8-82)			AND THE RESIDENCE OF THE PARTY		

U.S. DEPARTMENT OF ENERGY Federal Energy Regulatory Commission Washington, D.C. 20426

Form Approved OMB No. 1902-0038 (Expires 12/31/84)

APPLICATION FOR DETERMINATION OF THE MAXIMUM LAWFUL PRICE UNDER THE NATURAL GAS POLICY ACT (NGPA) (Sections 102, 103, 107 and 108)

GENERAL INSTRUCTIONS

Complete this form if you are applying for price classification under sections 102, 103, 107 or 108 of the NGPA.

Complete each appropriate item on the reverse side of this page. The code numbers used in items 4 and 6 can be obtained from the Buyer/Seller Code Book. If there is more than one purchaser or contract, identify the additional information in the space below. Also enter any additional remarks in the space below. The data reported on this form are not considered to be confidential and will not be treated as such.

Submit the completed application to the appropriate Jurisdictional Agency as listed in title 18 of the CFR, part 274.501. If there are any questions, call (202) 357-8585.

SPECIFIC INSTRUCTIONS

Section of NGPA (a)	Category Code (b)	Description (c)
102	1	New OCS lease
102	2	New onshore well (2.5 mile test)
102	3	New onshore well (1000 feet deeper test)
102	4	New onshare reservoir
102	5	New reservoir on old OCS lease
103	-	New onshore production well
107	0	Deep (more than 15,000 feet) high-cost gas
107	1	Gas produced from geopressured brine
107	2	Gas produced from coal seams
107	3	Gas produced from Devonian shale
107	5	Production enhancement gas
107	6	New tight formation gas
107	7	Recompletion tight formation gas
108	0	Stripper well
108	1	Stripper well — seasonally affected
108	2	Stripper well - enhanced recovery
108	3	Stripper well - temporary pressure buildup
108	4	Stripper well - protest procedure

No.	Contract Date (Mo, Da, Yr) (a)	Purchaser (b)	Buyer Code
1			
2			
3			
4			
5			
6			

Remarks:

1884 LAW

DATE: JUN 1 4 1984 WELL OPERATOR: Beson Oil & Son Corp. FIRST PURCHASER: Brooklyn Union Son Co.	BUYER-SELLER
W. Va. Department of Mines, Oil & Gos Division WELL DETERMINATION FILE NUMBER 840.517 -102 -001 : 2024 Use Above File Number on all Communications Relating to Determination of this Well	nly
CHECK EACH ITEM AS COMPLETE OR NOTE WHAT IS MISSING 1. FERC -121	
3. IV-2 Well Permit	ening
6. IV-36 Gas-Oil Test: Gas Only Was Oil Produced?	
9. IV-48 Application for certification. Complete? 10-17. IV Form 51 - 52 - 53 - 4 - 55 - 56 - 57 - 58 Complete? 18-28. Other: Survey Logs Geological Charts. Structure Map 1: 4000 Map Well Gas Analyses	
(5) Date commenced: Date completed Date completed (5) Production Depth: (5) Production Formation:	
(5) Final Open Flow: (5) After Frac. R. P. (6) Other Gas Test:	
	PSIG from Berly
10-17. Does lease invintory indicate enhanced recovery being done 10-17. Is affidavy, signed: Notarized? Loes official well record with the Department confirm the submitted information.	10
Additional promatics Does computer program confirm' was Deterination Objected to By Whom's	

	S:A:E	OF MIST VIRGINIA	****
	DEPARTMENT OF H	INTS. OIL AND CAS DIVISION	
•			D. Knight #1
			No. 47 . 001 .2024
	STATE APPLICATI	OF FOR WILL CLASSIFICATIO	y Siete County Termit
			Pravious file No. (III A: 311 (361))
''' Berea Oi	1 & Gas Corp.		
P. O. Bo		DESIGNATED ACENT	Thomas E. Riley, P.E.
	rt, WV 26330	ADDRESS	P O Box 299
		and Date Not avail	Bridgeport, WV 26330
or 'tert Code Not	Available	(Honih, 2.) and	able
. ef first Turchoses	The second contract of		
	195 Montague Str	the residence of the second se	
	15110	et of Y. U. ton)	
	(City)	New York 1	1201
felier Code		. FERC Buyer Code	
E MOLITAMINATION B			
A(1) initial determ	Inetion (See FIRC For	• 121.) fection of lifts	3
recovery techn	ology.	tion is the result of enh	enced Category Code
(1) Determination			•
		Thomas E. Riley,	, P.E., Manager of Engineering
		Thomas &	A second
		a. Fuernia	Lucy
		P O Box 299	0
		Bridgeport, West	•
		City	tate (Zip Code)
		(304)842-6	
		Code	m n e f
ril'i et e of Proof o	I Service to Purchase	r)	
I of the above to be	completed by the Ope	retor/Applicant)	

iner. 11 known).	sedictional Agency.	Executed copy to be return	ned to Crarater/Applicant and
The Depar	trent of Pines hes re	elved a request. for	certification of the above described
1 \ \ ne far dans		A. Cal I.A	" at Ut 41 Cas Police Art of 1816
			ALL THE WALL MULES PRESION 102 . IT. P.
"Il intereste	d parties are hara'y	notified that en the	day of
			n is filed.
This Applicat	inn is acsigned file.	١٥.	
Initial revie	w of infernation subm	itted indicates the well (10. [] 10 not
" edditional evid	ence will be made at	the time appointed for a	(NCPA). A review of this evidence public hearing or as anon thereafter
Urless oblect	1001 414 1101 511-4		
e 'rering will no	t be held except on e	thatta sotion of the dep	ng to rade within fifteen (15) estrant and the matter will
		VEST VIRGINIA SERVE	THENT OF MINES
MAY			
MAY 1	7 1984	(the management of the contraction of	Director
i		В у	MANUA
Delictional Agency		Title	
	:	, Dephasion	A Particular of the Control of the C

MAY 1:71984

Are you aware of any other information which would tend to be inconsistent with the information specified above? Yes No X. If yes, indicate the type and source of the

AFFIDAVIT

Thomas E. Riley , having been first duly sworn according to law, state that I have caused to be made a diligent search of those records hereinbefore indicated in the manner herein described, that the information contained in this document is true and accurate, and that on the basis of the records and examinations hereinbefore described and to the best of my information, knowledge and belief, there is no marker well within 2.5 miles of the well for which this determination is sought which has a completion location less than 1,000 feet above the completion location of the said well for which determination is sought. Thomas E. Riley

STATE OF WEST VIRGINIA COUNTY OF Harrison, TO WIT:

r, Hattie E. Kerns , a Notary Public in and for the state and county aforesaid, do certify that Thomas E. Riley , whose name is signed to the writing above, bearing date on the 15th day of May , 19 84, has acknowledged the same before me, in my county aforesaid.

Given under my hand and official seal this 16th day of May 1984

My term of office expires on the 3rd day of January , 1993 .

[NGTARIAL SEAL]

BOTTOM HOLE PRESSURE DATA

Indicate the bottom hole pressure of the well and explain how this was calculated.

BHP = $P_{W} + P_{W}$ (e $^{GL/53.34T}$ -1)

T

Where as: PW = 1364.73 psia

= .65 G

= 3660'= 560°R

BHP = 1464 psia

STATE OF WEST VIRGINIA

DEPARTMENT OF MINES, OIL AND GAS DIVISION

DATE	May	16	,	, 19	84
Opera	tor's				
Well	No.	D.	Knight	#1	

API Well No. 47 - 001 - 2024 State County Permit

WELL CLASSIFICATION FORM

WELLS DRILLED MORE THAN 1,000 FEET DEEPER THAN A MARKER WELL

NGPA Section 102(c)(1)(B)(ii) Category 3

	DESIGNATED AGENT Thomas E. Riley, P.E.
	ADDRESS P. O. Box 299
	Bridgeport, WV 26330
WELL OPERATOR Berea Oil & Gas Corp.	LOCATION: Elevation 1802'
ADDRESS P. O. Box 299	Watershed Sand Run
Bridgeport, WV 26330	District_Glade County Barbour Quad Belington
GAS PURCHASER Brooklyn Union Gas Co.	Gas Purchase Contract No. Not available
ADDRESS 195 Montague Street	Meter Chart Code Not available
Brooklyn, NY 11201	Date of Contract Not Available
* * * * * * *	* * * * * * * * *

List all records reasonably available to you which contain information relevant to a determination of eligibility (including production records, B&O Tax Records and royalty payment records) and indicate the location of such records:

Checked logs, B & O records, production figures available. Records located in our well files. Appalachian Well Log Services, Midland, Texas. State of W. Va. Geological drilling samples report and completion reports reviewed carefully. Reviewed API well cards located in hourse.

Describe the search made of any records listed above:

Reviewed logs and pay section - our files. Drew well location plat showing all wells within a 2.5 mile radius of applicant well identifying deepest completion, and prepared exhibit identifying all wells within a 2.5 mile radius of applicant well identifying deepest completion.

Are there any records not reasonably avai able to you which may contain information relevant to a determination of eligibility? Yes No X. If yes, identify such records and indicate their location, if known:



berea oil & gas corp.

One Berea Plaza • P.O. Box 299 • Bridgeport, West Virginia 26330-0299 • (304) 842-6931 May 16, 1984

Mr. Theodore Streit, Administrator West Virginia Department of Mines Office Of Oil and Gas - NGPA Section 307 Jefferson Street Charleston, West Virginia

> RE: FERC Filing - NGPA 102/Code 3 D. Knight #1 (47-001-2024)

Dear Mr. Streit:

Enclosed please find a complete application for NGPA 102/Code 3 (1,000' deeper rule) for the Haverty formation determination on the above referenced well. We have provided supporting documents as required by the 1981 Edition of the West Virginia Administrative Regulations (Chapter 22-4) as follows:

- 1. FERC Form 121 (original and 3 copies)
- 2. Form IV-6, Well Plat (3 copies)
- 3. Form IV-35, Well Operator's Report (3 copies)
- 4. Form IV-48WC (original and 3 copies)
- 5. Form IV-52WC (original and 1 copy)
- 6. Well location plat showing all wells within a 2.5 mile radius of the applicant well
- Exhibit "A" identifying all wells within a 2.5 mile radius of applicant well

Our check in the amount of \$40.00 is attached for the filing fee.

Should you have any questions or require additional information, please do not hesitate to contact me at (304)842-6931 at our Bridgeport, West Virginia office.

Respectfully,

BEREA OIL & GAS CORP.

Manager of Engine

TER/lk Encl.

cc: Buffalo Office
Dover Office
D. Copley's Office
E. Mehring

Brooklyn Union Gas FERC File

• Corporate Headquarters •

69 Delaware Avenue • 900 Chemical Bank Building • Buffalo, New York 14202-3878 • (716) 842-0711 • Telex # 646894

APPLICATION FOR DETERMINATION OF THE MAXIMUM LAWFUL PRICE UNDER THE NATURAL GAS POLICY ACT (NGPA)

1.0 API well number:		47 -	- 001 - 2 - 20	024 - 0000	
(If not assigned, leave blank. 14 digits.)	1	77	001 2 2	0000	
2.0 Type of determination being sought:	1				
(Use the codes found on the front	i	September 1	103		
of this form.)		Sec	tion of NGPA (Category Code	
3.0 Depth of the deepest completion					
location: (Only needed it sections 103			5172	feet	
or 107 in 2.0 above.)	1		3		
4.0 Name, address and code number of	i				
applicant: (35 letters per line	Ber	ea Oil & Gas (Corp.		
maximum. If code number not	Name				Seller Code
available, leave blank.)	1 P.	O. Box 299			
	Street				
	Bri	dgeport	WV	26330	
	City		State		
5.0 Location of this well: [Complete (a)	. 1				***************************************
or (b).]	i Gla	de Dist.			
(a) For onshore wells	Field N	lame			
(35 letters maximum for field	Bar	bour	. WV		
name.)	County		State		
(b) For OCS wells:	1			THE RESERVE OF THE PERSON OF T	
	1	N/A			
	Area N			Block Numb	er
	1				
	1	Date	of Lease:		
	1	1 1 1	1 1 1 1		
	i	Mo.	Day Yr.	OCS Lease Number	
(c) Name and identification number	1				
of this well: (35 letters and digits	1	D. Knight #	1		
maximum.)	!				
(d) If code 4 or 5 in 2.0 above, name	1	/ .			
of the reservoir: (35 letters	1	N/A			
maximum.)		tir etakultu ajutet ast altera et Settlander altera etakultu arabia.	The state of the s		and an analysis of the second
6.0 (a) Name and code number of the					
purchaser: (35 letters and digits					
maximum. If code number not	Bro	oklyn Union Ga	s Corp.		
available, leave blank.)	Name				Buyer Code
(b) Date of the contract:	!				Dayer Gode
	No	t available	11111	1.1	
	i		Mo. Day	Yr.	
(c) Estimated total annual production	!			The state of the s	
from the well:			2 3	Million Cubic	Feet
	1				
				(c) All Other	(d) Total of (a),
		(a) Base Price	(b) Tax	Prices (Indicate	
				(+) or (-).)	(b) and (c)
7.0 Contract price:	1				
(As of filing date. Complete to 3	S/MMBTU	2 8 8 9	0 2 4 9		3 1 3 8
decimal places.)		Million & Principle Colleges Street,			despitato • neromagis nethodo estuago
8.0 Maximum lawful rate:	1		0 0 .		0 1 0 0
(As of filing date. Complete to 3	S/MMBTU	2 8 8 9	0 2 4 9		3 1 3 8
decimal places.)			angerial 9 minutes current services		wanter 6 parameter followed expenses
9.0 Person responsible for this application:	1				
	Tho	mas E. Riley,	P.E., Manager	of Engineering	3
Agency Use Only	Name	_	71	Title	
MAY 1 7 1984	0	comas &	Liler		
MAY 17 1984	Signature		1	(001) 010	001
Date Received by FERC	M	ay 16, 1984	0	(304)842-6	931
		olication is Completed		Phone Number	
	Comments of the last of the la	THE RESIDENCE OF THE PARTY OF T	THE PERSON NAMED IN COLUMN TWO IS NOT THE OWNER.	The second secon	The state of the s

U.S. DEPARTMENT OF ENERGY Federal Energy Regulatory Commission Washington, D.C. 20426

Form Approved OMB No. 1902-0038 (Expires 12/31/84)

APPLICATION FOR DETERMINATION OF THE MAXIMUM LAWFUL PRICE UNDER THE NATURAL GAS POLICY ACT (NGPA) (Sections 102, 103, 107 and 108)

GENERAL INSTRUCTIONS

Complete this form if you are applying for price classification under sections 102, 103, 107 or 108 of the NGPA.

Complete each appropriate item on the reverse side of this page. The code numbers used in items 4 and 6 can be obtained from the Buyer/Seller Code Book. If there is more than one purchaser or contract, identify the additional information in the space below. Also enter any additional remarks in the space below. The data reported on this form are not considered to be confidential and will not be treated as such.

Submit the completed application to the appropriate Jurisdictional Agency as listed in title 18 of the CFR, part 274.501. If there are any questions, call (202) 357-8585.

SPECIFIC INSTRUCTIONS

Use the codes in the table below for type of determination in item 2.

Section of NGPA	Category Code	Description
(a)	(b)	(c)
102	1	New OCS lease
102	2	New onshore well (2.5 mile test)
102	3	New onshore well (1000 feet deeper test)
102	4	New onshore reservoir
102	5	New reservoir on old OCS lease
103 .	_	New onshore production well
107	0	Deep (more than 15,000 feet) high-cost gas
107	1	Gas produced from geopressured brine
107	2	Gas produced from coal seams
107	3	Gas produced from Devonian shale
107	5	Production enhancement gas
107	6	New tight formation gas
107	7	Recompletion tight formation gas
108	0	Stripper well
108	1	- Stripper well - seasonally affected
108	2	Stripper well - enhanced recovery
108	4 3	Stripper well - temporary pressure buildup
108	4	Stripper well - protest procedure

Enter the appropriate information regarding other Purchasers/Contracts.

Line No.	Contract Date (Mo, Da, Yr)	Purchaser	Buyer Code
	(a)	(b)	(c)
1			
2			
3			Section 1997
4			
5			
6			The state of the s

Remarks:

A88FTH YAM

WELL OPERATOR: FIRST PURCHASER: OTHER:	Och alls	Sac Carp.	Broklyn	DUYER-SELLER La Alega Union
WELL DETERMINA 840.517 -10 Uso Above File Num	Mines, Oil & Gas Division ATION FILE NUMBER 3 -001 = 2024 Shor on all Communications mination of this Well	QUALIFIE	D	
1. FERC -121 2. IV-1 Agent	Permit	ot completed - Line No	•	
5. IV-35 Wall 6. IV-36 Gas- 7. IV-39 Annu	Plat Record Oil Test: Gas Only ual Production day Production	Drilling Was Oil Pro	Deepening	Ratio _
10-17. IV Form 51	des mieryses	Geologic 1: 4000 Map	cel Charts Well Tab	oulations
(5) Production(5) Production(5) Final Open	enced: n Depth: n Formation: n Flow: c. R. P.		Deeper	ned
(f) Other Gas (7) Avg. Dail; (f) Avg. Dail; (b) Line Pres	Test: y Gas from Annual rodu y Gas from 90-dey endir sure:	oction:	F:	16 from Deals
10-17. Does lease 10-17. Is affidad Locs official wo. Additional is crm.	ction: c invintory indicate en y signed: l record with the Department. Chiectec to	Noter: Timent confirm the submodes computer program of	ned?	

STATE OF WEST VIRGINIA DEPARTMENT OF MINES, OIL AND CAS DIVISION

Ma Ma	<u>y</u> 1	Ω,	. 198
Operator's Well No.	D.	Knight	#1
API Well No. 47 - State	001	- 5	2024

Quad Belington

WELL CLASSIFICATION FORM NEW ONSHORE PRODUCTION WELL HGPA Section 103

	DESIGNATED AGENT Thomas E. Riley, P.E
	ADDRESS P. O. Box 299
WELL GPERATOR Berea Oil & Gas Corp.	Bridgeport, WV 26330
ADDRESS P. O. Box 299	LOCATION: Elevation 1802'
Bridgeport, WV 26330	Watershed Sand Run
CAS FURCHASER Brooklyn Union Gas Co.	Dist Glade County Barbour Quad
ADDRESS 195 Montague St.	Cas Purchase Contract No. Not Available
Brooklyn, NY 11201	Meter Chart Code Not Available
	Date of Contract Not Available

Date surface drilling was begun: 2/7/84

Indicate the bottom hole pressure of the well and explain how this was calculated:

 $P_W + P_W = (e^{GL/53.34T} - 1)$

Where as: PW 1364.73 psia G .65

BHP = 1464 psia

T. 3660' T 560°R

I. Thomas E. Riley

surface drilling of the well for which this determination is sought was begun on or after February 19. 1977; the well satisfies applicable state or federal well spacing requirements and the well is not within a proration unit, in existence at the time surface drilling began, which was applicable to the incommercial quantities or on which surface drilling began on or after February 19. 1977, and which best of producing gas in commercial quantities. I state, further, that I have concluded, to is a new onshore production well and that I am not aware of any information not described in the application which is inconsistent with this conclusion.

STATE OF WEST VIRGINIA.

Harrison . TO WIT: COUNTY OF

I. Hattie E. Kerns . a Notary Public in and for the state and county aforesaid. do certify that Thomas E. Riley, whose name is signed to the writing above, bearing date the 16thday of May , 1) 84, has acknowledged the same before me, in my county aforesaid Given under my hand and official seal this 16thay of May . 1984. My term of office expinent on the 3rd day of January , 1993.

[NOTARIAL SEAL]

Dattie & Huns

/ 6	STATE OF	MEST VIACINIA	Talla Mari	16 01
1.	TERM TO TAIMERASID	S. OIL AND CAS DIVISION	May	10,
			Crerator's D.	Knight #1
			1154 17A	
	STATE APPLICATION	FOR LTLL CLASSIFICATION	3.0(0)	2024
		TON THE CLASSIFICATION	Previous Pita w	ncy lermit
			Previous File No.	पा महारक्षात
! ('I'AIC) Berea Oi	1 & Gas Corp.	DESIGNATED		
P. O. Bo	x 299		Thomas E. Riley, F	.E.
	rt, WV 26330	ADDRESS	P O Box 299	
	o. Not available	A . A	Bridgeport, WV 26	330
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	and any other services are a service and a s			
	195 Montague Stree	or Y. U. Ion)		
	Brooklyn (Cli)		1201	
felier Code			(lip toda)	
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	Instion (See FIRC Form)	103		
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			anteg	
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			, P.E., Manager of E	
		nomas	E Killy	
		P O Box 299		
		Street or Y. O. Sc	1	
		Bridgeport, West	Virginia 26330	
		city	tate (Zip Code)	
		(304)842-6		
		Code		
of Proof of	f Service to Purchaser)			
I at the above to be	completed by the Operat	or Healtenes)		
		****************	***************************************	••••
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or fartion 108 of (No	of for determined the series of Section rminetics that increased GPA): or for determine	production is the ree	ult of entanced recover	of 1916. Y technology
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office of the Oil at	d parties are here'y not nd Cas Division in Charle	eston, Vest Virginia.	day of	1 11 at
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	ion is assigned file No.			
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' + r edditional evice	ence will be made at the ard.	time appointed for a	(ACPA). A review of the public hearing or as an	his exidence
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in licrical Agency		- Company of the control of the cont	1 M	2
		Title	Committee of the commit	

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