DRILLING CONTRACTOR:



1)	Date:	19
21	Operator's	

Administrator, Office of Oil and Gas

340 - 5Well No._ 3) API Well No. 47
State 3830 87

County

Permit

STATE OF WEST VIRGINIA

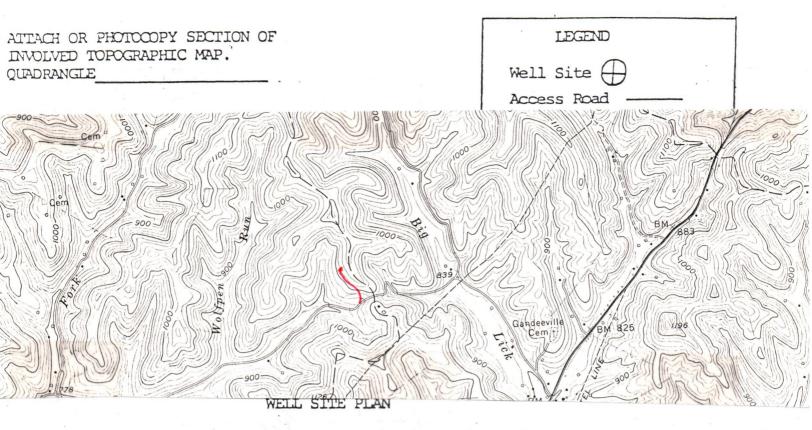
ΞP	AR	TMENT	OF	MINES,	OIL A	AND	GAS	DIVISION
	.*						-	

Unknow	m		. г	DEPART		T OF MINES, OI		DIVISION	,	
N. I.							,			
	S. Alexandre		• 1	OIL A	IND G	GAS WELL PERM	AIT APPLIC	CATION		
4) WELLTY	DE. A OII	X	/ Con	Х	,			1.		
WELLII						/ Underground	Latoroga		, Dam	/ Shallow
) LOCATIO	N: Elev	ation:	1018'			Watershed:				/ Shallow
, Localino						_ County:	-	och Ku		Walton 7½'
WELL OP	ERATOR_			С.	,	_ county		GNATED A		McLaughlin
Address	D	O. Box						dress	P.O. Box	709
	Sp	encer,	W.Va.	252	76				Spencer,	W.Va. 25276
OIL & GA	S									
	OWNER		Н. Не				12) COAL	OPERATO	OR No	ne
Address	·		Mark				Add	dress		
4		144	encer,	W • V	• 4	32/6		0110		
Acreage SURFACE			ty F	Honk	ins	,			•	ARATION ON RECORI
Address			2 Bo		1110			dress	NO	ne
71441000					W . V	V. <u>2</u> 5243	Auc			
Acreage		144					Name	-		
FIELD SA	LE (IF MAI	E) TO:		1.0	, T 117.			iress	* 4 L	
Address										
							14) COAL	LESSEE V	VITH DECLAR	ATION ON RECORD:
	S INSPECTO					10	Name		Non	ne
Name			Doughe			- 	Add	iress	-	
Address			le, WV					_		
PROPOSE									IN S	Sec of C
PROPUSE	D WORK:	Plus of	f old form	Drill de	eper_	Redr	ill	/ Fractur	re or stimulate	
			hysical cha							JUN - 8 1983
GEOLOGI	CAL TARGE					llus Shale				0 1000
					F7/	00 feet				N. 0. 0. 10. 1
17) Estima18) Approx19) Approx	ximate water	strata dep	ths: Fresh	h,	200	5/1 feet;		00	feet D	DIL & GAS DIVISION
19) Approx	ximate coal se	am depth	s:	Non	e		al being mine	ed in the are	a? Yes	PT. OF MIN
CASING A	ND TURING	PROCE	AM	1						NO
	"									
CASING OR TUBING TYPE		SP	ECIFICATIO Weight	NS I		FOOTA	GE INTERVALS	5	CEMENT FILL-UP OR SACKS	PACKERS
	Size	Grade	per ft.	New	Used	For drilling .	Left in	well	(Cubic feet)	
Conductor	9 5/8	H-40	32.3	X	-	3001	2001			Kinds
Fresh water Coal	1 370	11 40	132.3	1		300 550	300	550	To surfac	e by Ruk 15-0
Intermediate	1 7	J-55	23	X		2,200	2,20	01	m C	Sizes
Production	41/2	J-55	10.5	X	7	5,700'	5,70		To surface As needed	
Tubing	1		-			3,700	3,70	70	As needed	Depths set
Liners			1							
							1			Perforations:
							<u> </u>			Top Botto
							-			
EXTRACTION				A de la Seco		O		-		
Check and p										
Include The re	led is the leas	code 22	s or other	continui	ng con	tract or contracts	by which I h	old the rig	ht to extract oil	or gas.
ROYALTY			-4-1-(c) (1)	through	(4). ((See reverse side fo	or specifics.)		100	
Is the right to	extract, pro	duce or m	arket the o	il or gas	based u	IDON a lease or oth	er continuina	and and		ding for flat well royalty o
Providence Providence	Jion 101 com	Pensanon	TO THE OW	mer of the	ne oil o	or gas in place wh	ich is not in	herently re	lated to the volu	aing for flat well royalty of the of oil or gas so extra
produced or	and weren		MO ET							ime of on of gas so extra
Required Cop	ve is No, not	hing addi	tional is no	eeded. If	the an	iswer is Yes, you i	nay use Affi	davit Form	IV-60.	*)
				closed al	at and	reclamation alon	ha h			delivered by hand to the
named coal	operator, coa	l owner(s), and coal	lessee o	n or be	efore the day of th	nave been m	delivery of	gistered mail or of this Permit And	delivered by hand to the a plication to the Departme
Mines at Cha	arleston, We	t Virginia		-/	1	Contract of the contract of th			· com remit App	O A
lotary:	arle ?	Ferris	Illa	Lives			Signed:	seil	m: X	wat la
Ay Commissio	n Expires_N	lovembe	er 9, 1	992			Its:	P	resident	March
							113./		- COLUCIE	//
1 . F . 7 . 9	47-08	7-3830)	N ==		FFICE USE O			August	10, 1983
		11.3		or the second	D	RILLING PE	RMIT	4		09/15/2022 ·
nit number 💇	affection with the	more interest	n Edia	TO MORE		es a la l	1	ALL A	and the second	OUT OF COLUMN
permit coveri	ing the well o	perator a	nd well loc	ation sh	own b	elow is evidence of	f permission	granted to	drill in accorder	
memes subject	to the cond	dons con	tained ner	DILL MILL	m me	reverse nereor. No	ofification m	net he giver	n to the District	Oll and Car Increases
er to No. 1011	rnor to the c	DESTructio	n or roads.	. location	e and r	pits for any permitted work has com	ad wart in s	addition, th	e well operator o	r his contractor shall notif
er district on	and gas map	il 10,	ours belon	e actual	permit	ted work has com	menced.)			
it expires				<u>.</u>	,	unless dri	lling is comm	enced prio	to that date and	prosecuted with due dilig
Juu.	Agent:	. /P	lati	// C	sing/	7 Fee	MANIE	11.	11	

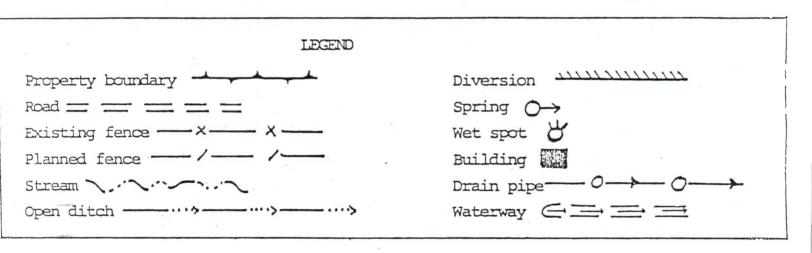
NOTE: Keep one copy of this permit posted at the drilling location.

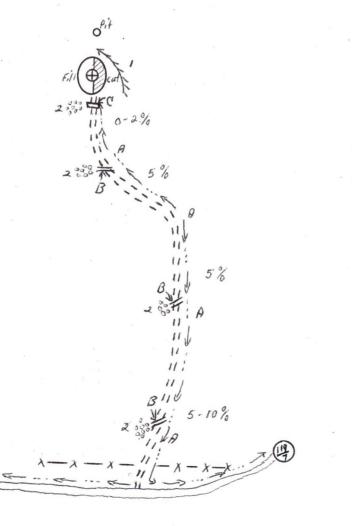
Line Item Explanation

	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 product at the well in liquid form by ordinary production methods and which are not the result of condensation of after it leaves underground reservoirs: "Gas" means all natural gas and all other fluid hydrocarbons not defas oil.	i gas
4B)	"Shallow well" means any well drilled and completed in a formation above the top of the uppermost member the "Onondaga Group" or a depth less than six thousand feet, whichever is shallower.	er of
	"Deep well" means any well drilled and completed in a formation at or below the top of the uppermost men of the "Onondaga Group" or at a depth less then six thousand feet, whatever is shallower.	nber
5)	Where well is located	
6)	Before a permit can be issued in a corporation, company partnership, or fictitious name, the name must registered with the Secretary of State Office	st be
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 propos or does operate a coal mine. See Note 24	es to
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 where fracturing or stimulating is to be part of the work for which a permit is sought and is noted as such of Form IV-2 filed in connection therewith.	n the
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 difference elevation	
19)	All coal seam depths	5.01
20)	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 permit described herein may file the following: 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 to extract, produce or market the oil or gas is claimed; The book and page number wherein each such lease or contract by which the right to extract, produce market the oil or gas is recorded; A brief description of the royalty provisions of each such lease or contract. 	d; right
22)		
23)	and four copies of Form IV-2 must	Form 3, (iv) ent re-
24)	The above named coal operator, coal owner(s), and coal lessee are hereby notified that any objection they to make or are required to make by Code §22-4-3 must be filed with the Department of Mines within fifteen days after the receipt of this Application by the Department.	wish (15)
	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	
amined thi	lersigned coal operator owner lessee of the coal under the well location has is proposed well location. If a mine map exists which covers the area of the well location, the well location has the mine map. The undersigned has no objection to the work proposed to be done at this location, provided, the mass complied with all applicable requirements of the West Virginia Code and the governing regulations.	as occii
Date:		
	Its	



ketch 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.





09/15/2023

IV-9 (Rev 8-81)



DATE	Sept	. 21,	1982	
WELL	NO. 3	40-5		

State of Mest Mirginia API NO. 47 - 87 - 3830

Bepartment of Mines Gil and Gas Bivision

CONSTRUCTION AND RECLAMATION PLAN

COMPANY NAME Key Oil, Inc.	_	SIGNATED AL	Joe McLaughlin
Address P.O. Box 709 Spencer, W.V.	25276	Address P.O). Box 709 Spencer, W.V. 25276
Telephone 927-5490	_	Telephone	927-5490
LANDOWNER Betty F. Hopkins		SOIL CONS,	DISTRICT Little Kanawha
Revegetation to be carried out by K	Cey Oil. I		
This plan has been reviewed by 1	Het	lanaw.	ha SCD. All corrections
and additions become a part of this plan	1: <u> </u>		2
	Jar	(Date)	woon
	0	(SCD Aget	it)
ACCESS ROAD			LOCATION
Structure Drainage Ditch	(A)	Structure_	Diversion Ditch (1)
Spacing		Material_	Soil
Page Ref. Manual 2-12		Page Ref.	Manual 2-12
Structure Cross Drains	(B)	Structure_	Rip-Rap (2)
Spacing 80' - 400'		Material_	Stone
Page Ref. Manual 2-1		Page Ref.	Manual 2-9
Structure Culvert	(C)	Structure_	(3)
Spacing (15")	,	Material_	
Page Ref. Manual 2-7		Page Ref.	Manual
All structures should be inspected commercial timber is to be cut and st cut and removed from the site before	tacked and	all brush	red if necessary. All and small timber to be
RE	VEGETATIO		
Treatment Area I & II LimeTons/acree	e	Lime	Treatment Agea & TEAS ON A SON DEPT. OF Tons/acre
or correct to pH 6.5 Fertilizer 500 lbs/acre		Fertilizer	
Fertilizer 500 lbs/acre (10-20-20 or equivalent)		reiumzei	(10-20-20 or equivalent)
Mulch Hay or Straw Tons/acre	2	Mulch	Tons/acre
Seed* Orchardgrass 12 lbs/acre		Seed*	lbs/acre
Ladino Clover 3 lbs/acre			lbs/acre
lbs/acre			lbs/acre
*Inoculate all legumes such as vetch, Inoculate with 3X recommended amount.	trefoil (and clovers	with the proper bacterium.
The care of the commentate and are	בבייע בבב	במפגם	Key Oil, Inc. 09/15/2023
NOTES: Please request landowners!			P.O. Box 709
cooperation to protect new seedling for one growing season.	ξ.,		Spencer, W.V. 25276
Attach separate sheets as			2 2 2 2
necessary for comments.	PE	INE NO.	(304)927-5490



State of Mest Birginia

Bepartment of Mines Gil and Cas Division Charleston 25305

THEODORE M. STREIT ADMINISTRATOR

February 19. 1985

In Re: Permit No:

Key Oil Company P. O. Box 709 Spencer, WV 25276

BARTON B. LAY, JR.

DIRECTOR

		Farm:	Betty F. Hopkins
		Well No:	340-5
		District:	Harper
		County:	Roane
		Issued:	8-10-83
÷ ,:			
Gentlem	en:		
in this	The FINAL INSPECTION REFORT for the a office. Only the column checked bel	bove captione ow applies:	ed well has been received
XXXXX	The well designated by the above cap under your Blanket Bond. (PERMIT CA	tioned permit	number has been released VER DRILLED)
	Please return the enclosed cancelled designated by the above permit numbe said bond in your behalf, in order t	r to the sure	ety company who executed

47-087-3830

Very truly yours,

Your well record was received and reclamation requirements approved. In accordance with Chapter 22, Article 4, Section 2, the above captioned well

will remain under bond coverage for life of the well.

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

records.

A'N

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

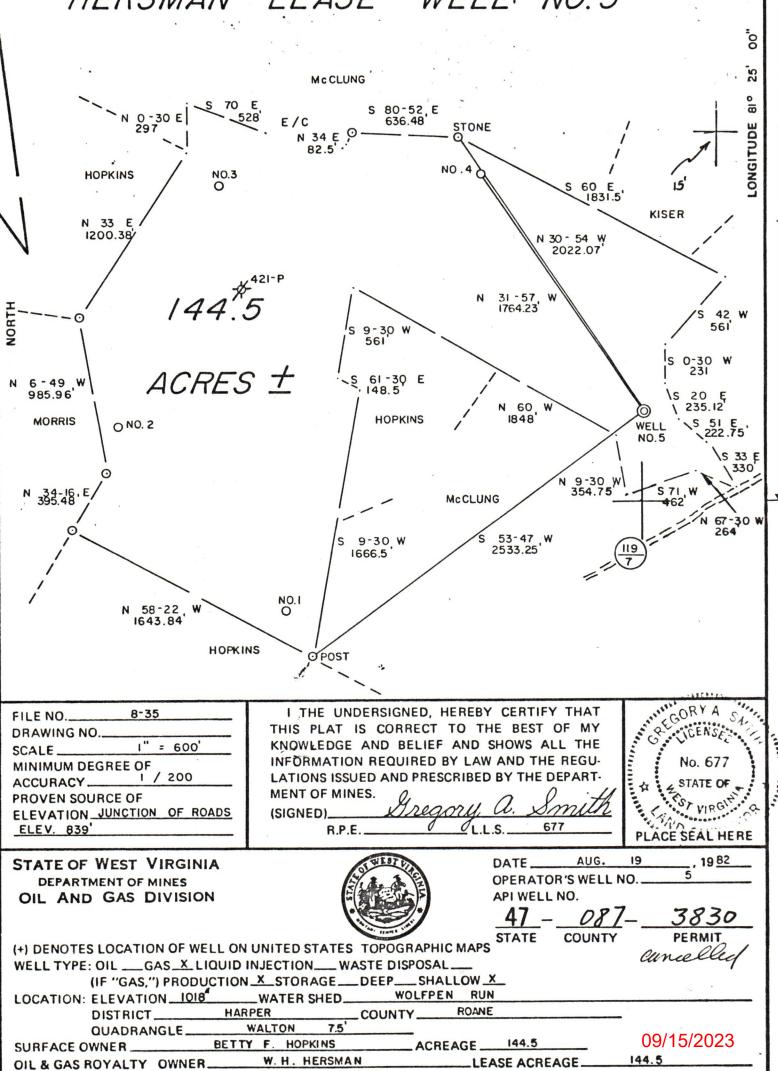
Permit No	087-3830	County	Roane		
Company.	Key Oil, Inc.	Farm.	Betty F. Hopkins		
Inspector	Homer Dougherty	Well No.	340-5		
Date	September 20, 1984	Issued.	8-10-83		
RULE	DESCRIPTION		IN COMPLIANCE YES NO		
23.06	Notification Prior to starting World	k			
25.04	Prepared before Drilling to prevent	t Waste			
25.03	High-Pressure Drilling			*	
16.01	Required Permits at Wellsite		MEARITAGE		
15.03	Adequate Fresh Water Casing		FREINE		
15.02	Adequate Coal Casing		FEB 1 8 1985	ש	
15.01	Adequate Production Casing		OIL & GAS DIVISION		
15.04	Adequate Cement Strength		DEPT. OF MINE	S	
23.02	Maintained Access Roads			_	
25.01	Necessary Equipment to prevent Wast	e			
23.03	Reclaimed Drilling Site				
23.04	Reclaimed Drilling Pits		. Zamani da et al a a a a a a a a a a a a a a a a a a	_	
23.05	No Surface or Underground Pollution			_	
7.03	Identification Markings			-	
COMMENTS:	Please issue final on cancellati	on if loc	ation is okay. Permit	-	
expired on 4-10-84 and company says well was not drilled.					
		12			

SIGNED: Homes H. Dougheity
DATE: 2/13/25

09/15/2023

I have inspected the above well and (Have/Have Not) found it to be in compliance with all of the rules and regulations of the Office of Oil and Gas-Department of Mines of the State of West Virginia.

HERSMAN LEASE WELL NO.5



PLUG AND ABANDON___CLEAN OUT AND REPLUG___

TARGET FORMATION MARCELLUS ESTIMATED DEPTH 5200'

WELL OPERATOR KEY OIL, INC. DESIGNATED AGENT JOE McLAUGHLIN

ADDRESS P.O. BOX 709

ADDRESS P.O. BOX 709

REDRILL

PERFORATE NEW

340

DRILL DEEPER

FORMATION....OTHER PHYSICAL CHANGE IN WELL (SPECIFY).

_PLUG OFF OLD FORMATION__

LEASE NO ..

PROPOSED WORK: DRILL X CONVERT

STIMULATE.