FORM IV-2 (Obverse) (12-81)





	State	County	Permit
API Well N	lo. 47	079	1088
Operator's Well No	Rolli	ns #2	
Date:	Tuly 7	, 19	82

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

	DEPT. OIL AND GAS WELL	LL PERM	IT APPLICATION
WELL TYPE:	Oil/ Gas/		
			storage/ Deep/ Shallow _X/)
LOCATION:	Elevation: 1079'	Watershed:	Toney Branch, Trace Fork
	District: Curry	County:	Putnam Quadrangle: Garrett's Bend
WELL OPERAT	OR D. C. Malcolm, Inc.		DESIGNATED AGENT D. C. Malcolm
Address	1006 Commerce Square		Address 1006 Commerce Square
	Charleston, W. Va.	2 5301	Charleston, W. Va. 25301
OIL & GAS ROYALTY OWN Address	NER Gladys Rollins, et c/o David Rollins Box 169	al	COAL OPERATOR not operated Address
Address	Charleston, W. Va.		
	117		
Acreage			COAL OWNER(S) WITH DECLARATION ON RECORD:
	W. R. Burdette		Name Gladys Rollins, et al
Address	Route 3		Address
	Hurricane, W. Va.		
Acreage		-	Name
FIELD SALE (I			Address
Address		3	COAL LEGGE WITH DECLARATION ON RECORD.
	A/Y		COAL LESSEE WITH DECLARATION ON RECORD:
	SPECTOR TO BE NOTIFIED		Name
Name	· for	-	Address
Address			
			ses at the above location under a deed/ lease/
			he undersigned well operator from Gladys B.
(IF said deed, le	ins, et al case, or other contract has been recorded	1:)	
Recorded on	April 11, 19 78, in the office of	f the Clerk of	the County Commission of Putnam County, West
Va., in	Book 60 at page 5	54 . A I	permit is requested as follows:
PROPOSED W	VORK: Drill X / Drill deeper	/ Redril	Fracture or stimulate 7 TEUM TIMES SE
	Plug off old formation/		
			RHOLE A OF THE VALVA CODE, THE LACENTED A 15 MEETS
	omer physical change in went (op	JA(N)	STATE OF THE STATE
	-planned as shown on the work	order on the	e reverse side hereof.
The above nam	ned coal operator, coal owner(s), and coal le	ssee are here	by 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 wit	hin fifteen (15) days after the receipt of this Application by the
Department.			
Copies of this I	Permit Application and the enclosed plat and	d reclamation	plan have been mailed by registered mail or delivered by hand to
the above named	coal operator, coal owner(s), and coal less	ee on or befo	ere the day of the mailing or delivery of this Permit Application to
the Department	of Mines at Charleston, West Virginia.		
PLEASE SUBMI	T COPIES OF ALL		

GEOPHYSICAL LOGS DIRECTLY
TO: WEST VIRGINIA OIL AND GAS CONSERVATION COMMIS-SION 1615 WASHINGTON STREET EAST CHARLESTON, WV 25311 TELEPHONE: (304) 348-3092

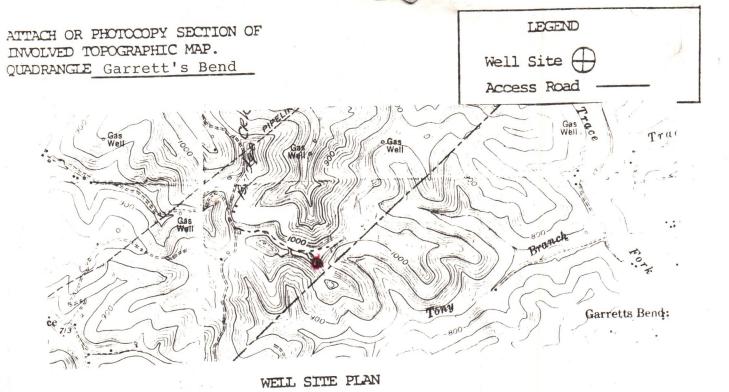
D. C. Malcolm, Inc. Well Operator lalen President

BLANKET BOND

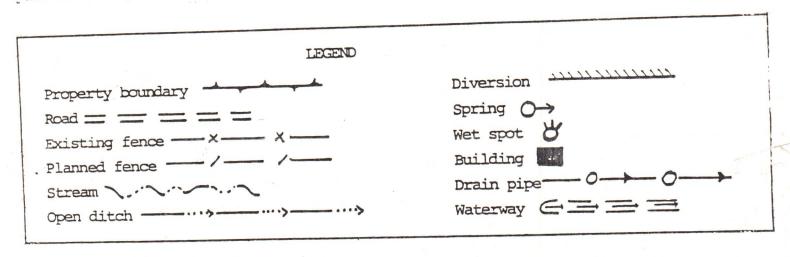
PROPOSED WORK ORDER

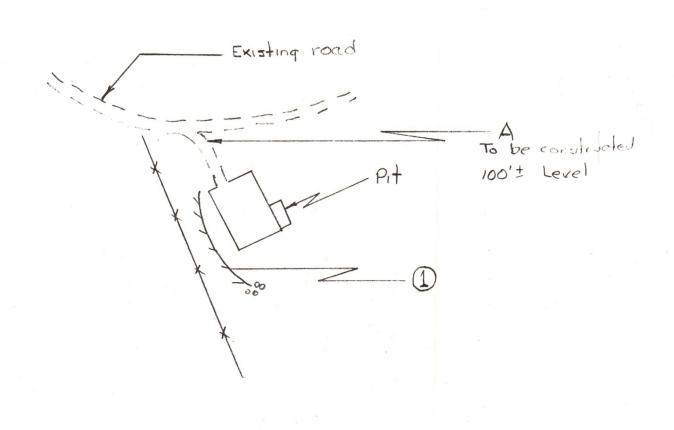
THIS IS AN ESTIMATE ONLY: ACTUAL INFORMATION MUST BE SUBMITTED ON FORM IV-35 UPON COMPLETION

ORILLING CO	NTRAC	TOR (IF	KNOW							
				Ad	dress					
EOLOGICAL	TARGE	T FOR	MATION			o i a se Chai	la (Marsa	llus)		
							•	X/ Cab	le tools	1
							; salt,			
								in the area? Yes	/ No 3	z /
ASING AND						13 0041	being mined	in the area.		1
ASING AND	TUBING	J PROG	KAWI							
							NEC			
ASING OR UBING TYPE	SPE	Grade	Weight per ft	New	Used	FOOTAGE For drilling	Left in well	CEMENT FILL-UP OR SACKS (Cubic feet)	PACKERS	
onductor									Kinds	
resh Water	9 5/	8"		X		250	250	surface		
oal									Sizes	
ntermediate	7"		17	X		2025	2025	35 sx		Z.
roduction									Depths set	
ubing	2 3/	8"	46	X		4100	4100			
iners									Perforations:	
									Тор	Bottom
5				1 1 1 1		7 - 7				
				1	+	1,27				
PERMIT MU PROVISION	JST BE PO	OSTED / OSTED / OSTED / OSTED /	which a part of the North AT THE NOTE OF THE LEGISLE	WELL : NCE W	SITE.	HAPTER 22,	d as such on the	well where fracturing Form IV-2 filed in co	or stimulating is to nnection therewith.	
						SHALL EXPIR	E			
PERATIONS	HAVE	NOT CC	MMENC	CED BY						
				,						
		••••		••••	• • • • • •			• • • • • • • • • • • • • • • • • • • •		• • • • • • • • • • • • • • • • • • • •
The	following	g waiver	must be c	omple	ted by	the coal operate	or and by any co	al owner or coal lesse	e who has recorded	a
decl	laration i	inder Co	de 22-	4-20, i	if the p	permit is to be	issued within	fifteen (15) days of	receipt thereof.	
						WA	IVER			
proposed well The undersig	l location ned has	. If a mir no objec	ne map extion to th	ists w	hich, co k prope	vers the area o	f the well location	f the coal under this on, the well location h n, provided, the wel as.	as been added to th	e mine ma
		Jas)	110		4			1.		
Date:							Ву			
Date:			, 1.							
						Sec. 1	San Andrews	i i i i i i i i i i i i i i i i i i i		



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.





Rollins

correst Please request landswhere corperation to protest new seedling for one growing season. Attach separate sheets as necessary for communes.

FIAN PREPARED BY D. C. Malcolm () halea (

ADDRESS 1006 Commerce Square

Charleston, W. Va. 25301

- wienum.

FHONE NO. 343-9593

PROPOSED WORK ORDER-

. 11 - 1.1

THIS S AN ESTIMATE ONLY: ACTUAL INFORMATION MUST BE SUBMITTED ON FORM IV-35 UPON COMPLETION

GEOLOGICAL							-			
	LTARGE	T FOR	MATION	,I	Devo	nian Sha	le (Marce	llus)		
Estimate	d depth	of comp	leted we	11,_	4	100 fee	et Rotary	/ Cab	le tools	/
Approxi	mate wat	er strata	depths:	Fres	h,	160 feet	; salt,	600 feet.		
Approxi	mate coal	seam d	epths:			Is coal	being mined i	in the area? Yes	/ No	X
CASING AND	TUBING	G PROG	RAM							
CASING OR TUBING TYPE	SPE	CIFICAT	IONS Weight per ft	New	Used	FOOTAGE For drilling	INTERVALS	CEMENT FILL-UP OR SACKS (Cubic feet)	PACKERS	*
Conductor									Kinds	
Fresh Water	9 5/	8"		Х		250	250	surface		
Coal	3 31			1		230	230	surrace	Since	
Intermediate			1	†	1	0005		0.5	Sizes	
	7"		17	X	-	2025	2025	35 sx		
Production			-	-	-			,	Depths set	,
ublng	2 3/	8"	46	X_		4100	4100			
Liners									Perforations:	
			1						Тор	Bot
	+	1	-	-				II	11	
the L	Departmen	it, accom	panied by	y (1) a	plat in	the form prese	cribed by Regul	or copies of Form IV-2 ation 11, (ii) a bond i	n one of the form	16
the L presc ''Rec previ	Department cribed by clamation lously paid	it, accom Regulati Plan'', a d on the s	panied by ion 12, o applicable same well	y (i) a or in l e to th l, the f	plat in ieu the ie recla fee requ	the form prese ereof the other amation required aired by Code §	cribed by Regul r security allowed by Code \$ 2 22-4-12a, and ()	ar copies of Form IV-2 ation 11, (ii) a bond it yed by Code § 22-4-2 2-4-12b and Regulation by if applicable, the co- feet of the proposed	n one of the form 2, (iii) Form IV- ion 23, (iv) unless	ns 9,
the L presc ''Rec previ Code	Department of the cribed by clamation lously paid \$22-4-8; separate F	Regulati Plan'', a d on the s a from the	panied by ion 12, o applicable same well he owner shall not	y (i) a or in l e to th l, the f of an be req	plat in ieu the le recla fee required f	the form preserved the other mation required prized by Code ser well or dwell for fracturing of	cribed by Regul r security allowed by Code \$ 2 22-4-12a, and (viling within 200 r stimulating a vi	ation 11, (ii) a bond i yed by Code § 22-4-2 2-4-12b and Regulati y) if applicable, the co	n one of the form 1V- ion 23, (iv) unler onsent required by d well.	ns 9, ss by
rthe L presc "Rec previ Code A s be pa	Department of the visit of the	Regulati Plan'', a d on the s a from the form Iv-2 work for	panied by ion 12, o applicable same well he owner shall not which a p	y (i) a or in l e to th l, the f of an be requerted	plat in ieu the le recla fee required f	the form preserved the other mation required prized by Code ser well or dwell for fracturing of	cribed by Regul r security allowed by Code \$ 2 22-4-12a, and (viling within 200 r stimulating a vi	ation 11, (ii) a bond it yed by Code § 22-4-22-4-12b and Regulation of the proposed well where fracturing	n one of the form 1V- ion 23, (iv) unler onsent required by d well.	ns 9, ss by
rhe L presc "Rec previ Code A s be pa	Department or ibed by clamation to the separate Fart of the separate Far	Regulati Plan'', a d on the s a from the Form Iv-2 work for	panied by ion 12, o applicable same well he owner shall not which a p	y (1) a or in 1 e to th 1, the f of an be req ermit	plat in ieu the recla fee requiy water quired fi	the form preserved the other than the control of the other than the control of th	cribed by Regul r security allowed by Code \$ 2 22-4-12a, and (viling within 200 r stimulating a vi	ation 11, (ii) a bond it yed by Code § 22-4-22-4-12b and Regulation of the proposed well where fracturing	n one of the form 1V- ion 23, (iv) unler onsent required by d well.	ns 9, ss by
PERMIT MUST BE	Department or ibed by clamation iously paid \$22-4-8; separate Fart of the very separate Fart of	Regulati Plan'', a d on the s a from the Form Iv-2 work for	panied by ion 12, of applicable same well the owner shall not which a p	y (1) a or in 1 e to th 1, the f of an be requermit	plat in ieu the iee recla fee requ y wate y wate juired f is soug	the form preserved the other than the community of the other than the community of the comm	cribed by Regul r security allowed by Code \$ 2 22-4-12a, and (viling within 200 r stimulating a vi	ation 11, (ii) a bond it yed by Code § 22-4-22-4-12b and Regulation of the proposed well where fracturing	n one of the form 1V- ion 23, (iv) unler onsent required by d well.	ns 9, ss by
PERMIT MUST BE	pepartment or bed by clamation iously paid \$22-4-86 separate Fart of the variation of the v	Regulati Plan'', a d on the s a from the form Iv-2 work for v	panied by ion 12, of applicable same well the owner shall not which a p	y (1) a or in 1 e to th 1, the f of an be requermit	plat in ieu the iee recla fee requ y wate y wate juired f is soug	the form preserved the other than the community of the other than the community of the comm	cribed by Regul r security allowed by Code \$ 2 22-4-12a, and (viling within 200 r stimulating a vi	ation 11, (ii) a bond in the deal by Code § 22-4-22-4-12b and Regulation of the proposed well where fracturing	n one of the form 1V- ion 23, (iv) unler onsent required by d well.	ns 9, ss by
PERMIT MUST BE	Department or ibed by clamation iously paid \$22-4-8; separate Fart of the very separate Fart of	Regulati Plan'', a d on the s a from the form Iv-2 work for v	panied by ion 12, of applicable same well the owner shall not which a p	y (1) a or in 1 e to th 1, the f of an be requermit	plat in ieu the reclafee requiy water quired fis soug	the form preserved the other than the community of the other than the community of the comm	cribed by Regul r security allowed by Code \$ 2 22-4-12a, and (viling within 200 r stimulating a vi	ation 11, (ii) a bond in the deal by Code § 22-4-22-4-12b and Regulation of the proposed well where fracturing	n one of the form 1V- ion 23, (iv) unler onsent required by d well.	ns 9, ss by
PERMIT MUST BE	pepartment or bed by clamation iously paid \$22-4-86 separate Fart of the variation of the v	Regulati Plan'', a d on the s a from the form Iv-2 work for v	panied by ion 12, of applicable same well the owner shall not which a p	y (1) a pr in 1 e to th 1, the f of an be requermit	plat in ieu the reclafee requiy water quired fis soug	the form preserved the other than the control of the other than the control of th	cribed by Regul r security allowed by Code \$ 2 22-4-12a, and (viling within 200 r stimulating a vi	ation 11, (ii) a bond in the deal by Code § 22-4-22-4-12b and Regulation of the proposed well where fracturing	n one of the form 1V- ion 23, (iv) unler onsent required by d well.	ns 9, ss by
PERMIT MUST BE	pepartment or bed by clamation iously paid \$22-4-86 separate Fart of the variation of the v	Regulati Plan'', a d on the s a from the form Iv-2 work for v	panied by ion 12, of applicable same well the owner shall not which a p	y (1) a pr in 1 e to th 1, the f of an be requermit	plat in ieu the ieu the reclaiee requiy water in sought	the form preserved the other than the control of the other than the control of th	cribed by Regul r security allowed by Code \$ 2 22-4-12a, and (viling within 200 r stimulating a vi	ation 11, (ii) a bond in the deal by Code § 22-4-22-4-12b and Regulation of the proposed well where fracturing	n one of the form 1V- ion 23, (iv) unler onsent required by d well.	ns 9, ss by
PERMIT MUST BE	pepartment or bed by clamation iously paid \$22-4-86 separate Fart of the variation of the v	Regulati Plan'', a d on the s a from the form Iv-2 work for v	panied by ion 12, of applicable same well the owner shall not which a p	y (1) a pr in 1 e to th 1, the f of an be requermit	plat in ieu the ieu the reclaiee requiy water in sought	the form preserved the other than the control of the other than the control of th	cribed by Regul r security allowed by Code \$ 2 .22-4-12a, and (viling within 200 r stimulating a vi	ation 11, (ii) a bond in the deal by Code § 22-4-22-4-12b and Regulation of the proposed well where fracturing	n one of the form 1V- ion 23, (iv) unler onsent required by d well.	ns 9, ss by
PERMIT MUST BE	pepartment or bed by clamation iously paid \$22-4-86 separate Fart of the variation of the v	Regulati Plan'', a d on the s a from the form Iv-2 work for v	panied by ion 12, of applicable same well the owner shall not which a p	y (1) a pr in 1 e to th 1, the f of an be requermit	plat in ieu the ieu the reclaiee requiy water in sought	the form preserved the other than the control of the other than the control of th	cribed by Regul r security allowed by Code \$ 2 .22-4-12a, and (viling within 200 r stimulating a vi	ation 11, (ii) a bond in the deal by Code § 22-4-22-4-12b and Regulation of the proposed well where fracturing	n one of the form 1V- ion 23, (iv) unler onsent required by d well.	ns 9, ss by
PERMIT MUST BE PROVISIONS DELY COVED FOR CONTRACTIONS OF THE COVED FOR CONTRACTIONS OF THE COVED FOR COVED	pepartment or bed by clamation iously paid \$22-4-86 separate Fart of the variation of the v	AT THE	panied by ion 12, of applicable same well the owner shall not which a p	y (1) a pr in 1 e to th 1, the f of an be requested to the service of the service	plat in ieu the ieu the recla fee requiy water guired fi is sought HAPTE SHALL 3-83	the form preserved the other control of the other control of the other control of the control of	r security allowed by Code \$ 2 22-4-12a, and (ling within 200 r stimulating a value as such on the	ation 11, (ii) a bond in the deal by Code § 22-4-22-4-12b and Regulation of the proposed well where fracturing	n one of the form IV- (iii) Form IV- (ion 23, (iv) unlessonsent required to well. or stimulating is nection therewith	ns 9, ss py to h.
PERMIT MUST BE PROVISIONS DELY OVED FOR CRATIONS VE	pepartment or bed by clamation iously paid \$22-4-86 separate Fart of the variation of the v	AT THE	panied by ion 12, of applicable same well the owner shall not which a property of the control of	y (1) a y (1)	plat in ieu the recla fee recla fee required fi is sought HAPTE SHALL 3-83	the form preserved the other control of the other control of the other control of the control of	r security allowed by Code \$ 2 22-4-12a, and (ling within 200 r stimulating a way as such on the	ation 11, (ii) a bond in the deby Code & 22-4-22-4-12b and Regulation of the proposed well where fracturing Form IV-2 filed in continuous and the second of the proposed with the proposed well where fracturing from IV-2 filed in continuous and the proposed with the proposed well where fracturing from IV-2 filed in continuous and the proposed with the pr	n one of the form 1V- 2, (iii) Form IV- ion 23, (iv) unlessonsent required to well. or stimulating is nection therewith who has recorded to the content of	ns 9, ss by to h.

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 hereto. Witness the hands and seals of the parties hereto the day and year first above written. WITNESS: (SEAL) (SEAL) (SEAL) WEST VIRGINIA ACKNOWLEDGMENT STATE OF WEST VIRGINIA COUNTY OF Kunacher I, Day & H Rollins , a Notary Public of said County, do hereby certify that Chil M. Carley, bledy & J. Rolling, Pay 13 Rolling, Down H. Kell of Haven T. Relling, Dorathy Reiling. whose name whand signed to the within writing bearing date the 23 day of January, 1928 ha Lec...... this day acknowledged the same before me in my said County. Given under my hand this 2 My Commission expires.... Notary Public WEST VIRGINIA ACKNOWLEDGMENT STATE OF WEST VIRGINIA COUNTY OF Kunzuha To-wit: a Notary Public of said County, do hereby certify that whose name 2/2 signed to the within writing bearing date the ha 5 this day acknowledged the same before me in my said County. Given under my hand this..... 23.10 My Commission expires.... OHIO ACKNOWLEDGMENT STATE OF OHIO. COUNTY OF ... Before me, a Notary Public in and for said STATE OF WEST VIRGINIA, County of Putnam, to-wit Given under my hand this To a My 14h day of april I, J. M. LAKE, Clerk of the County Commission of said County, do hereby cerhe did sign the foregoing ins tify that the foregoing writing was this day whereof I have hereunto subscribed my name produced to me in my said office, and to-gether with the certificate thereto annexday of ed, was duly admitted to record therein. My Commission expires Notary Public ounty Lincoln, Putnam il and Gas Lease BYELMA EO B RECUBDED J.M. LAKE, CLERK 8

JUL 21 1982

DEPT. DF MINES



IV-35 (Rev 8-81)

State of Mest Airginia

Bepartment of Mines Gil und Cas Bivision

	9-7-82
Operat	or's
Well N	No. 2
Farm_	Gladys Rollins
ADT NO	047-070 - 1000

WELL OPERATOR'S - REPORT

DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

WEIL TYPE: Oil / Gar X / Liquid Injection (If "Gas," Production / Undergrou	/ Wast nd Storag	e Disposa e/ Deep	l/ p/ Sha	llow_x/)	
LOCATION: Elevation: 1089 KB Watershed To	ney Bran	ch, Trace	Fork		
District: Curry County Putna				t's Bend	
COMPANY D. C. Malcolm, Inc.				T=	
ADDRESS 1006 Commerce Square	Casing	Used in	Left	Cement fill up	
DESIGNATED AGENT D. C. Malcolm	Tubing	Drilling	in Well	Cu. ft.	
ADDRESS 1006 Commerce Square	Size				
SURFACE OWNER W. R. Burdette	20-16 Cond.				
ADDRESS Rt. 3 Hurricane, WV	13-10"				
MINERAL RIGHTS OWNER Gladys Rollins, et al	9 5/8	274'	274'	surface	
ADDRESS Box 169 Charleston, WV	8 5/8				
OIL AND GAS INSPECTOR FOR THIS WORK Kenneth	7	2094'	2094'	75 sx	
Butcher ADDRESS_	5 1/2				
PERMIT ISSUED 7-22-82	4 1/2	40361	4036'	140 sx	
DRILLING COMMENCED 8-18-82					
DRILLING COMPLETED 8-24-82					
IF APPLICABLE: PLUGGING OF DRY HOLE ON CONTINUOUS PROGRESSION FROM DRILLING OR	-:				
CONTINUOUS PROGRESSION FROM DRILLING OR Liners REWORKING. VERBAL PERMISSION OBTAINED used					
ON					
GEOLOGICAL TARGET FORMATION Devonian Sha	le (Marc	ellus Dep	th 2444-4	1047 feet	
Depth of completed well 4047 feet R	otary X	/ Cable	e Tools_)	
Water strata depth: Fresh 110 feet; Salt 520 feet					
Coal seam depths: None reported Is coal being mined in the area? No					
OPEN FLOW DATA					
Producing formation Devonian Shale (Marcell Pay zone depth 3586-3954 feet					
Gas: Initial open flow 335 Mcf/d					
Final open flow 280 Mcf/d Final open flow Bbl/d					
Time of open flow between initial and final tests 36 hours					
Static rock pressure 550 psig(surface measurement) after 72 hours shut in					
(If applicable due to multiple completion-					
Second producing formation	Pay	zone dep	th	feet	
Gas: Initial open flow Mcf/d					
Final open flow Mo5/d					
Time of open flow between initi					
Static rock pressurepsig(surface					
			The second second second second second		
		(Contin	The on re	verse sidel	

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

Perforated 3586-3954 w/ 15 holes Foam Frac w/ 280 bbls water, 60,000# sand, 500 gals 15% HCl

WELL LOG

		ELL ICG	
FORMATION COLOR HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all fres
Sand & Shale Sand Sand & Shale Sand Shale Lime (Little) Big Lime Sand (Injun) Sandy Shale Shale (Sunbury) Sand (Berea) Devonian Shale	0 280 460 542 736 1136 1686 1724 1793 1936 1986 2400 2420 2444	280 460 542 736 1136 1686 1724 1793 1936 1986 2400 2420 2444 4047	T. D. Gas Gauged 40 Mcfpd

(Attach separate sheets as necessary)

D. C. Malcolm, Inc.	
Well Operator	
By: Mala	President
Date: 9-7-82	

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."

0

STATE OF WEST VIRGINIA DEPARTMENT OF MINES OIL AND GAS DIVISION

FINAL INSPECTION REQUEST

INSPECTOR'S COMPLIANCE REPORT



OIL & GAS DIVISION
DEPT. OF MINES

Permit No	079-1088 County /	UTNAM /	Cur
Company Z	D.C. MALEOLMINE. FARM K	OLLINS	
Inspector	TERRY HOLCOMB Well No.	2	
6303600	NE 24 1983		
AND SHAPE THUSE OF			
	•	IN COM	PLIANCE
RULE	DESCRIPTION	Yes	No
23.06	Notification Prior to starting Work		***
25.04	Prepared before Drilling to prevent waste		***************************************
25.03	High-Pressure Drilling		******************
16.01	Required Permits at wellsite	***************************************	· ·
L5.03	Adequate Fresh Water Casing	- Thomas Canadage	
15.02	Adequate Coal Casing	-	-
5.01	Adequate Production Casing		-
15.04	Adequate Cement Strength		***************************************
23.02	Maintained Access Roads		-
25.01	Necessary Equipment to prevent Waste	V	-
3.03	Reclaimed Drilling Site	V	-
3.04	Reclaimed Drilling Pits	V	
3.05	No surface or underground Pollution	2	-
7.03	Identification Markings		
COMMENTS:		*/	
O.RIDNIS.		And the control of th	
			g, dance unlaw release Physique et accura
The state of the s			Reduceración

all of the rules and regulations of the Office of Oil and Gas Department of Mines of

the State of West Virginia.



State of West Birginia

Department of Mines Oil and Gas Division Charleston 25305 June 29, 1984

THEODORE M. STREIT ADMINISTRATOR

079-1088

WALTER N. MILLER DIRECTOR

D C. Malcolm, Inc. 1006 Commerce Square Charleston, W.Va. 25301

		FARM: 0	Gladys Rollins etal.
		WELL NO:	Two
		DISTRICT	:Currv
		COUNTY _	Putnam
Gentlem	en:		
Th this of	e FINAL INSPECTION REPORT for the above desc fice. Only the column check below applies:	ribed wel	l has been received in
	The well designated by the above permit num Blanket Bond.	ber has b	een released under your
	Please return the enclosed cancelled single designated by the above permit number to the said bond in your behalf, in order that the records.	e surety	company who executed
XXX	Your well record was received and reclamatic accordance with Chapter 22, Article 4, Sectivill remain under bond coverage for life of	ion 2, the	e above captioned well

Very truly yours,

In Re: PERMIT NO:

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

TMS / chm

PARTICIPANTS: DATE: JAN 251983	BUYER-SELLER COL
. WELL OPERATOR: D.C. Malcolm, Inc.	011539
FIRST PURCHASER: Columbia Gas Trans.	004030
OTHER:	
W. Va. Department of Mines, Oil & Gas Division WELL DETERMINATION FILE NUMBER 8209/3-107-079=1088 Use Above File Number on all Communications Relating to Determination of this Well	
CHECK EACH ITEM AS COMPLETE OR NOTE WHAT IS MISSING	
1. FERC -121 / Items not completed - Line No. 4.0 All	
2. IV-1 Agent O. C. Malcolm	
3. IV-2 Well Permit	
4. IV-6 Well Plat	
5. IV-35 Well Record / Drilling / Deeper	
6. IV-36 Gas-Oil Test: Cas Only	ning
6. IV-36 Gas-Oil Test: Gas Only ✓ Was Oil Produced?	Ratio
8. IV-40 90 day Production Days off line: 9. IV-48 Application for certification. Complete? /	
10-17. IV Form 51 - 52 - 53 - 54 - 55 - 56 - 57 - 58 Complete?	Affidavit Signed
18-28. Other: Survey Logs Geological Charts Structure Map 1: 4000 Map Well Gas Analyses	Tabulations
(5) Date commenced: 8-19-92 Date completed 8-24-82 Dee	
(5) Production Depth: 3 586.3954	pened
(5) Production Formation: Devonian Shale (Marcellus)	
(5) Final Open Flow:	
(5) After Frac. R. P. 550# 72 hrs.	
(6) Other Gas Test:	
(7) Avg. Daily Gas from Annual Production:	
(8) Avg. Daily Gas from 90-day ending w/1-120 days	
(8) Line Pressure:	
(5) Oil Production: From Completion Report	PSIG from Daily Repo
10-17. Does lease inventory indicate enhanced recovery being done No	
10-17. Is affidavit signed? Notarized?	
oes official well record with the Department confirm the second s	
ooes official well record with the Department confirm the submitted information	tion? Yes
Additional information Does computer program confirm?	
	73



STATE OF WEST WIRGINIA

DEPARTMENT OF MINES, DIM ANY GAS DIVISION

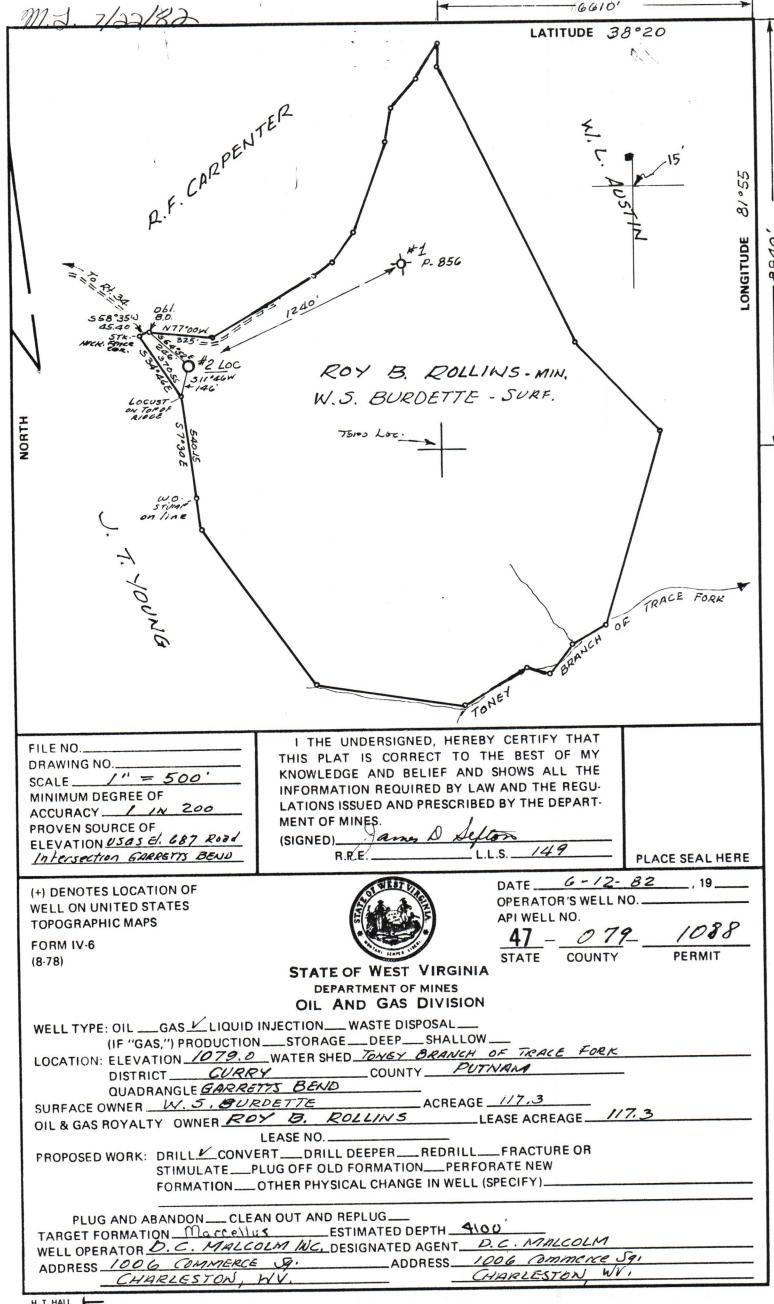
Rollins #2

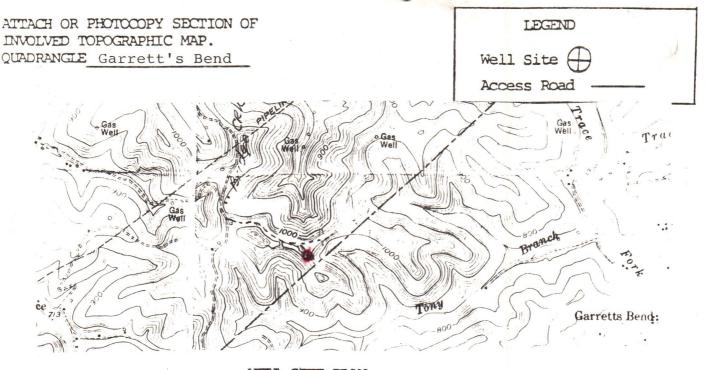
- 079 - 1088

AELL CLASSIFICATION FORM HIGH COST GAS WELL - DEVONIAN SHALE

GPA Section 197

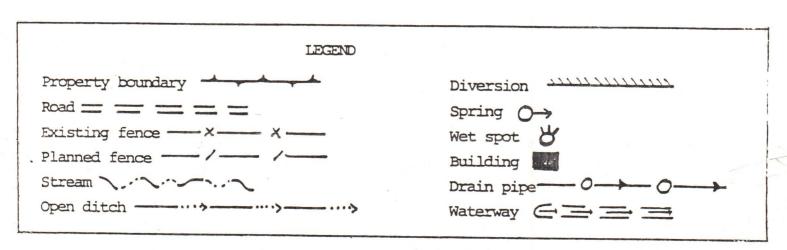
	DESIGNATED - ENT D. C. Malcolm
	ADDRESS 1006 Commerce Square
	Charleston, WV 25301
WELL SPERATOR D. C. Malcolm, Inc.	LOCATION Elevation 1079
1006 Commerce Square	Watersned Toney Branch, Trace Fork
Charleston, WV 25301	CistCurry County Putnam - Garrett'
GAS PURCHASER Columbia Gas	Gas Purchase Bend Contract No AP22922-WV
ADDRESS Box 1273	The state of the s
Charleston, WV	Meter Chart Code 818648-1-1 Date of Contract 9-25-78
a a a a a a a a a a a a	W W D W W
Date surface drilling began: 8-18-82	
Indicate the bottom hole pressure of the well a	and explain how this was calculated
	daredraced.
$BHP=P_1+P_1(e^{GL/5})$	3.34T ₋₁₎
7	
P= 550	
T= 100	
G=0.60	
	DAVIT
shale footage is equal to on loss than 61 (5)	in first sworn according to law, state that, I have calculated his not Devonian shale as indicated by a Gamma Ray index of (3)(i) or (3)(ii)(A) has been filed, or as indicated by he retrated that the percentage of potentially disqualifying non-of the gross Devonian age interval; and I have no knowledge of inconsistent with a conclusion that the well qualifies as a
TATE OF WEST VIRGINIA.	
OUNTY OF Kanawha . TO WIT	
Mary E. Malcolm . a No	ctary Public in and for the state and county aforesaid
The this of Septemberry 8 Thas	and is signed to the writing above, bearing date acknowledged the same before me, in my county
foresaid	and the second
Given under my hand and official se	May & Malcolne
by term of office expires on the	day of 1092
	May & Jan a
OTARIAL SEAL,	Johan Publication
	y

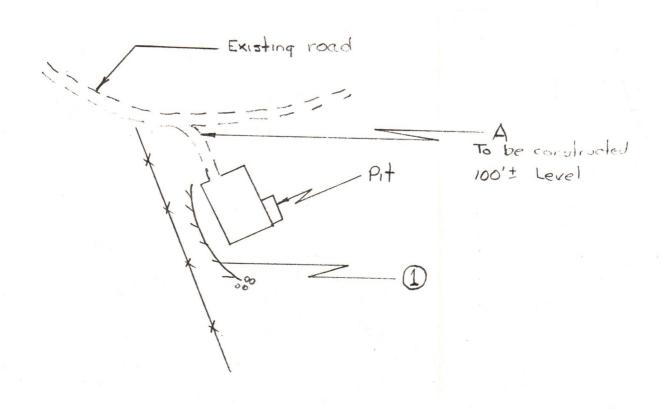




WELL SITE PLAN

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.





COTES: Please request landswhere cooperation to protest new seedling for one growing season. Attach separate sheets as necessary for community.

FILIN PREPARED BY	D. C. Malcolm Collace
AȚDRESS	1006 Commerce Square
	Charleston, W. Va. 25301

FHONE NO. ____343-9593

35 35

PROPOSED WORK ORDER-

THIS SAMESTIMATE ONLY:
ACTUAL INFORMATION MUST BE SUBMITTED ON FORM IV-35 UPON COMPLETION

	CONTRA	CIOR (I	IF KNOV	_	ddress					
				A	aaress					
GEOLOGIC	CAL TARC	GET FOR	MATIO	٧,	Devo	onian Sha	ale (Marce	ellus)		
Appr	ated depth	or com	pleted w	ell,_		<u>4100</u> f	eet Rotary	y <u>X</u> / Ca	ble tools	/
Аррго	oximate wa	iter strata	depths:	Fre	sh,	160fee	t; salt,	600 feet		
CASING A	ND TUBIN	IG PROC	GRAM			Is coa	l being mined	in the area? Yes_	/ No	_X
CASING OR TUBING TVI	SPE SIZE	Grade	IONS Weight per ft	New	Used	FOOTAGE For drilling	Left in well	CEMENT FILL-UP OR SACKS (Cubic feet)	PACKERS	
Conductor	-								Kinds	
Fresh Water	9 5/	8"		Х		250	250	surface	- Cinus	
Coal	-	-						Barrace	Sizes	
Intermediate	7"		17	Х		2025	2025	35 sx	5.207	
Production								33 SX	David	
ublng	2 3/	B"	46	х		4100	4100		Depths set	,
Liners						1100	4100			
									Perforations:	
		To an							Тор	Botto
-				-						
IS PERMIT MUST BE L PROVISIONS DEINICLE 4 OF THE V.	iously paid \$22-4-8a separate Fo art of the wo	on the sa from the rim Iv-2 slook for wheeler the correction of th	me well, owner of the mail not be mail not a per	to the the fee of any e requirement is	reclan required for red for sought	nation required to the second	by Code \$ 22- 2-4-12a, and (v) ng within 200 f	copies of Form IV-2 r tion 11, (ii) a bond in d by Code § 22-4-2, 4-12b and Regulatio if applicable, the cor- eet of the proposed Il where fracturing or orm IV-2 filed in conn	(iii) Form IV-9 n 23, (iv) unless usent required by well.	5
<i></i>	Du	Le	tto		•••••					
The f decla	ollowing wa ration unde	iver musi er Code	be comp 22-4-20,	leted b	y the c	coal operator ar	nd by any coal ow ued within fifte	oner or coal lessee when (15) days of rece	no has recorded a ipt thereof.	••••••
The undersion						WAIVE	1110	coal under this well one well one, the well location has be	ipt thereof.	

By Hadys Rolling

FERC-121

1.0 API well number: (If not available, leave blank, 14 digits.)	047-079-1088						
2.0 Type of determination being sought: (Use the codes found on the front of this form.)		107 Section of N	NGPA	C-4 Category Cod	e		
3.0 Depth of the deepest completion location. (Only needed if sections 103 or 107 in 2.0 above.)		***************************************					
4.0 Name, address and code number of applicant: (36 letters per line maximum. If code number not available, leave blank.)	Name 10 Street	C. Malcol	ce Square WV	253 State Zip Contr	- a		
5.0 Location of this well. (Complete (a) or (b)!		urdette=S me tnam	a a a delimination of the trade designed as a second secon	WV State			
tor For OCS wells	N/A			Block Number			
 Name and identification number of this well (35 letters and digits maximum). 	Glad	dys Rollin	ıs #2				
of the reservoir. (35 letters maximum.)		,			-		
F. () car Name and code number of the purchaser—(35 letters and digits maximum—If code number not evailable, leave blank.)	_Col1 Name	ımbia Gas	Transmiss	ion	004030		
(n) trate of the contract:			0 19 2 5 Mo. Day				
Stamated annual production			35	MAL			
		(a) Base Price (\$/MMBTU)	(b) Tax	(c) All Other Prices [Indicate (+) or (-)]	to du		
The prince of the complete to 3 The places (5 3 2 4	Actual Reimb.	0.0 1 0	5 3 3 4		
Blue Mark nam lawful rate As at fung date. Complete to 3 de once places.)		Table of Street Street	**************************************				
SEP 131982	Name Signature	. Malcolm Nalcu		Presid	L		
	Date Appl	7-82 loation is Complete	3	304-343-959	3		

DEPARTMENT OF MINES, OIL AND GAS DIVISION

Operator's
Well No. Rollins #2

API Well
No. 47 - 079 - 1088
State County Permit

STATE APPLICATION FOR WELL CLASSIFICATION

Previous File No. (If Applicable)

		(11 Applicab
WELL OPERATOR D. C. Malcolm, Inc. ADDRESS 1006 Commerce Square	DESIGNATED AGENT D. C. ADDRESS 1006 COMMER	Malcolm
Charleston, WV 25301 Gas Purchase Contract No. AP22922-WV and Meter Chart Code 818648-1-1	Charleston, Date 9-25-78 (Month, day and year)	W. V. 25301
TYPE OF DETERMINATION BEING SOUGHT:	Z53Z5 (Zip Code) FERC Buyer Code 004030	
(1) Initial determination (See FERC Form 121. (2) Determination that increased production in recovery technology. (3) Determination of a seasonally affected we	is the result of enhanced	C-4 Category Code
	D. C. Malcolm Name (Print) Name (Print) Signature	President
	Charleston WV 2530 City State (Zip 304-343-9593 Area Phone Number	Code)

(Certificate of Proof of Service to Purchaser)

A copy of this filing has been hand-carried to Columbia

(All of the above to be completed by the Operator/Applicant)
(To be completed by Jurisdictional Agency. Executed copy to be returned to Operator/Applicant and
The Department of Mines has received a request, for certification of the above describes well as meeting the requirements of Section under the Natural Gas Policy Act of 197k under Section 108 of (NGPA); or for determination of a seasonally affected well under Section 108 of the office of the Oil and Gas Division in Charleston, West Virginia, or as soon thereafter as it may be heard, there will be a public hearing, if requested, or if objection is filled.
Application is assigned File No.
Initial review of information submitted indicates the well is. is not entitled to certification as claimed under the Natural Gas Policy Act (NGPA). A review of this evidence and any additional evidence will be made at the time appointed for a public hearing or as soon thereafter as the matter may be heard.
Unless objections are timely filed or a request for a hearing is made within fifteen (15) go to determination.

WEST VIRGINIA DEPARTMENT OF MINES

SEP 131982

Date received by Jurisdictional Agency By Title





State of Mest Mirginia

OIL & GAS DIVISION DEPT. OF MINES

Bepartment of Mines Bil und Gas Bivision Charleston 25305

/ No X / The right to extract, produce or market the oil or gas is based upon a lease or leases or other continuing contract or contracts providing for flat well royalty or any similar provision for compensation to the owner of the oil or gas in place which is not inherently related to the volume of oil and gas so extracted, produced or marketed.

If the answer to this question is yes, you may use this affidavit.

AFFIDAVIT

operator, or authorized representative thereof), after being duly sworn, do (the above designated owner or depose and say that the undersigned is authorized by the owner of the working interest in the well to state that it shall tender to the owner of the oil and gas in place not less than one-eighth of the total amount paid to or received by or allowed to the owner of the working interest at the wellhead for the oil or gas so extracted, produced or marketed before deducting the amount to be paid to orset aside for the owner of the oil or gas in place, all such oil or gas to be extracted, produced or marketed from the well

Signed: Comalcu	
Taken, subscribed and sworn to before me this Signed: My Commission Expires:	day of, 19

(12-81)

PROPOSED WORK ORDER-

ACTUAL INFORMATION MUST BE SUBMITTED ON FORM IV-35 UPON COMPLETION

	W. 1	on non	AATION'					7.7	
								llus) Coh	la tools
	1								le tools
							; salt,		
Approxi	nate coa	l seam d	lepths:			Is coal	being mined	in the area? Yes	/ No <u>X</u>
CASING AND	TUBING	G PROG	RAM						
CASING OR	SPE	ECIFICAT	IONS Weight			FOOTAGE	INTERVALS	CEMENT FILL-UP	PACKERS
- TOBING : YPE	Size	Grade	per ft	New	Used	For drilling	Left in well	(Cubic feet)	
Conductor									Kinds
Fresh Water	9 5/	8"		X		250	250	surface	
Coal									Sizes
Intermediate	7"		17	X		2025	2025	35 sx	
Production								A 10	Depths set
ublng	2 3/	/R"	46	x		4100	4100		
Liners	4 51		1 40	141		1100	1100		Perforations:
				1					
	1			+	+	-	-		Тор
	-		+	-					
the I preso ''Rec	Department cribed by clamation	nt, accom Regulat Plan'',	npanied being 12, capplicable	y (i) a or in l e to th	plat in ieu the ie recla	the form preserved the other	cribed by Reguer security allowed by Code \$ 2	ur copies of Form IV-2 lation 11, (ii) a bond wed by Code § 22-4- 22-4-12b and Regulat	in one of the forms 2, (iii) Form IV-9, ion 23, (iv) unless
the I preso ''Rec previ Code	Departme cribed by clamation tously paid \$22-4-8	nt, accom Regulat Plan', id on the Ba from t	npanied betion 12, of applicable same well the owner 2 shall not	y (i) a or in le to the l, the for an	plat in ieu the recla fee required to	the form preserved the other amation requir- uired by Code ser well or dwe	cribed by Reguer security allowed by Code \$ 25,22-4-12a, and the code of the c	lation 11, (ii) a bond wed by Code § 22-4-22-4-12b and Regulat (v) if applicable, the collection of the propose well where fracturing	in one of the forms 2, (iii) Form IV-9, ion 23, (iv) unless consent required by d well.
the I preso ''Rec previ Code A s be pa	Department of the serious by selamation fourly paids \$22-4-8 separate lart of the	nt, accom Regulat Plan'', id on the Ba from t Form Iv-2 work for	npanied betion 12, capplicable same well the owner which a p	y (i) a or in le e to the l, the for of an be reco	plat in ieu the recla fee required to	the form preserved the other amation requir- uired by Code ser well or dwe	cribed by Reguer security allowed by Code \$ 25,22-4-12a, and the code of the c	lation 11, (ii) a bond wed by Code § 22-4-22-4-12b and Regulat (v) if applicable, the conference of the propose	in one of the forms 2, (iii) Form IV-9, ion 23, (iv) unless consent required by d well.
the I preso "Rec previ Code A s be pa	Department of the serious by selamation to select the serious	nt, accom Regulat Plan'', id on the Ba from t Form Iv-2 work for	npanied betion 12, capplicable same well the owner which a p	y (i) a or in le to the l, the f r of an be recoermit	plat in ieu the iee recla fee req iy wate quired is is soug	the form presereof the other amation requiruired by Code ger well or dwe for fracturing og the and is noted	cribed by Reguer security allowed by Code \$ 25,22-4-12a, and the code of the c	lation 11, (ii) a bond wed by Code § 22-4-22-4-12b and Regulat (v) if applicable, the collection of the propose well where fracturing	in one of the forms 2, (iii) Form IV-9, ion 23, (iv) unless consent required by d well.
the I press "Rec previ Code A s be pa	Department of the by clamation to usly paid to separate land of the property o	nt, accompand Regulation Plan'', id on the Ba from the Form Iv-2 work for	ppanied better 12, capplicable same well-the owner which a p	y (i) a or in 1 e to th 1, the f r of an be recommit	plat in ieu the ie recla fee req y wate quired is soug	the form presereof the other amation required by Code ger well or dwelfor fracturing oght and is noted	cribed by Reguer security allowed by Code \$ 25,22-4-12a, and the code of the c	lation 11, (ii) a bond wed by Code § 22-4-22-4-12b and Regulat (v) if applicable, the collection of the propose well where fracturing	in one of the forms 2, (iii) Form IV-9, ion 23, (iv) unless consent required by d well.
PERMIT MUST BE ROVISIONS DELV	Department of the control of the con	nt, accomp Regulat Plan'', id on the Ba from t Form Iv-2 work for	ppanied better 12, capplicable same well-the owner which a p	y (i) a or in 1 e to th 1, the f r of an be recommit	plat in ieu the ie recla fee req y wate quired is soug	the form presereof the other amation required by Code ger well or dwelfor fracturing oght and is noted	cribed by Reguer security allowed by Code \$ 25,22-4-12a, and the code of the c	lation 11, (ii) a bond wed by Code § 22-4-22-4-12b and Regulat (v) if applicable, the collection of the propose well where fracturing	in one of the forms 2, (iii) Form IV-9, ion 23, (iv) unless consent required by d well.
PERMIT MUST BE ROVISIONS DELV	Department of the Separate In A Separate In	nt, accomp Regulat Plan'', id on the Ba from t Form Iv-2 work for	ppanied betion 12, capplicable same well the owner which a property which a property with the country which a property with the country with t	y (i) a pr in I e to the I, the fr of an be recovermit	plat in ieu the reclasse required is sought HAPTI	the form presereof the other amation required by Code ger well or dwelfor fracturing oght and is noted	cribed by Reguer security allowed by Code \$ 25,22-4-12a, and the code of the c	lation 11, (ii) a bond wed by Code § 22-4-22-4-12b and Regulat (v) if applicable, the collection of the propose well where fracturing	in one of the forms 2, (iii) Form IV-9, ion 23, (iv) unless consent required by d well.
PERMIT MUST BE ROVISIONS DELV	Department of the Separate In A Separate In	nt, accomp Regulat Plan'', id on the Ba from t Form Iv-2 work for	ppanied better 12, capplicable same well-the owner which a p	y (i) a pr in I e to the I, the fr of an be recovermit	plat in ieu the reclasse required is sought HAPTI	the form preserved the other amation required by Code ger well or dwelfor fracturing oght and is noted.	cribed by Reguer security allowed by Code \$ 25,22-4-12a, and the code of the c	lation 11, (ii) a bond wed by Code § 22-4-22-4-12b and Regulat (v) if applicable, the collection of the propose well where fracturing	in one of the forms 2, (iii) Form IV-9, ion 23, (iv) unless consent required by d well.
PERMIT MUST BE ROVISIONS DELV	Department of the Separate In A Separate In	nt, accomp Regulat Plan'', id on the Ba from t Form Iv-2 work for	ppanied betion 12, capplicable same well the owner which a property which a property with the country which a property with the country with t	y (i) a pr in I e to the I, the fr of an be recovermit	plat in ieu the reclasse required is sought HAPTI	the form preserved the other amation required by Code ger well or dwelfor fracturing oght and is noted.	cribed by Reguer security allowed by Code \$ 25,22-4-12a, and the code of the c	lation 11, (ii) a bond wed by Code § 22-4-22-4-12b and Regulat (v) if applicable, the collection of the propose well where fracturing	in one of the forms 2, (iii) Form IV-9, ion 23, (iv) unless consent required by d well.
PERMIT MUST BE ROVISIONS DELV	Department of the separate land of the separate lan	nt, accomp Regulat Plan'', id on the Ba from t Form Iv-2 work for	ppanied betion 12, capplicable same well the owner which a property which a property with the country which a property with the country with t	y (i) a pr in I e to the I, the fr of an be recovermit	plat in ieu the reclasse required is sought HAPTI	the form preserved the other amation required by Code ger well or dwelfor fracturing oght and is noted.	cribed by Reguer security allowed by Code \$ 25,22-4-12a, and the code of the c	lation 11, (ii) a bond wed by Code § 22-4-22-4-12b and Regulat (v) if applicable, the collection of the propose well where fracturing	in one of the forms 2, (iii) Form IV-9, ion 23, (iv) unless consent required by d well.
PERMIT MUST BE ROVISIONS BEING VED FOR RATIONS VE The	Department of the separate land of the separate lan	nt, accom Regulat Plan'', id on the Ba from t Form Iv-2 work for OAT TH CCORE ODE, T ng OMALEN G waiver r	panied beton 12, capplicable same well the owner which a part which which a part wh	y (i) a pr in I e to the I, the fr of an I be recovermit	plat in ieu the reclasse required is sought HAPTI SHALL 3-83	the form preserved the other amation required by Code ger well or dwell or fracturing oght and is noted. ER 22, EBY EXPIRE	cribed by Reguer security allowed by Code \$ 252-4-12a, and allowed lling within 200 ar stimulating a das such on the	lation 11, (ii) a bond wed by Code § 22-4-22-4-12b and Regulat (v) if applicable, the colorest of the propose well where fracturing Form IV-2 filed in colorest of the propose allowner or coal lesses allowner or coal lesses the colorest of the propose that the colorest or the colorest o	in one of the forms 2, (iii) Form IV-9, ion 23, (iv) unless consent required by d well. or stimulating is to nnection therewith.
PERMIT MUST BE ROVISIONS BEING VED FOR RATIONS VE The	Department of the separate land of the separate lan	nt, accom Regulat Plan'', id on the Ba from t Form Iv-2 work for OAT TH CCORE ODE, T ng OMALEN G waiver r	panied beton 12, capplicable same well the owner which a part which which a part wh	y (i) a pr in I e to the I, the fr of an I be recovermit	plat in ieu the reclasse required is sought HAPTI SHALL 3-83	the form preserved the other amation required by Code ger well or dwell or fracturing or the and is noted. ER 22, EBY EXPIRE he coal operatoermit is to be	cribed by Reguer security allowed by Code \$ 2 22-4-12a, and a security allowed by Code \$ 2 22-4-12a, and a security allowed by any code issued within	lation 11, (ii) a bond wed by Code § 22-4-22-4-12b and Regulat (v) if applicable, the colorest of the propose well where fracturing Form IV-2 filed in co	in one of the forms 2, (iii) Form IV-9, ion 23, (iv) unless consent required by d well. or stimulating is to nnection therewith.
The unders proposed well The unders proposed well The undersign	pepartment of the separate land of the separate lan	nt, accom Regulat Plan", id on the Ba from t Form Iv-2 work for OAT TH CCORE ODE, T ng CMALEN g waiver r ander Co al operate If a min- no object	must be code 22-4	y (i) a pr in I le to the I, the fr of an I le to the responsibility of the I le to the I	plat in ieu the reclase required is sought HAPTI SHALL 3-83	the form preserved the other amation required by Code ger well or dwell or fracturing oght and is noted. ER 22, EBY EXPIRE WAI lesservers the area of seed to be done.	or and by any coasissued within VER	lation 11, (ii) a bond wed by Code § 22-4-22-4-12b and Regulat (v) if applicable, the colorest of the propose well where fracturing Form IV-2 filed in colorest of the propose in the coal under this con, the well location has been to be a coal under this con, the well location has been to be a coal under this con, the well location has been to be a coal under this con, the well location has been to be a coal under this con, the well location has been to be a coal under this con, the well location has been to be a coal under this con, the well location has been to be a coal under this	in one of the forms 2, (iii) Form IV-9, ion 23, (iv) unless consent required by d well. or stimulating is to nnection therewith.
The unders proposed well The unders proposed well The undersign	pepartment of the separate land of the separate lan	nt, accom Regulat Plan", id on the Ba from t Form Iv-2 work for OAT TH CCORE ODE, T ng CMALEN g waiver r ander Co al operate If a min- no object	must be code 22-4	y (i) a pr in I le to the I, the fr of an I le to the responsibility of the I le to the I	plat in ieu the reclase required is sought HAPTI SHALL 3-83	the form preserved the other amation required by Code ger well or dwell or fracturing oght and is noted. ER 22, EBY EXPIRE WAI lesservers the area of seed to be done.	or and by any coasissued within VER	lation 11, (ii) a bond wed by Code § 22-4-22-4-12b and Regulat (v) if applicable, the colorest of the propose well where fracturing Form IV-2 filed in colorest of the propose in the coal under this con, the well location has been to be a coal under this con, the well location has been to be a coal under this con, the well location has been to be a coal under this con, the well location has been to be a coal under this con, the well location has been to be a coal under this con, the well location has been to be a coal under this con, the well location has been to be a coal under this	in one of the forms 2, (iii) Form IV-9, ion 23, (iv) unless consent required by d well. or stimulating is to nnection therewith.

60 PAGE 554 OIL AND GAS LEASE BOOK

AGREEMENT.	made and entered into this	23rd da	y of January Gladys T. Rollins,	A. D. 19 78
by and betwe				
	David H. Rollins.		, Roy B. Rollins, Jr	
			part, hereinafter called Lessor (v	
1. WITNESS the covenants stituents of eit and gas and th at all times for structures, and	SETH: That the Lessor, in cor and agreements hereinafter co- her in and under the land here eir constituents and of storing g the purpose of drilling and op- to possess, use, and occupy so	nsideration of the sum of One I ontained, does hereby grant unle einafter described, together with eas of any kind in any formation erating for oil, gas and water, I much of said premises as is ne	Dollar, the receipt of which is here to the Lessee all of the oil and go the exclusive right to drill for, I underlying the land, and also the aying pipe lines, erecting tanks, cessary and convenient for said p	eby acknowledged, and all of the co produce and markets a right to enter there machinery, powers an ourposes and to conv
			aid land being situate in Duval	
			and described as follows,	
EAST by lands	of W. L. Austin			
WEST by land	ls of J. S. Burdett	ie		
and containing It being the in	One hundred sever itention to describe herein all o	nteen of the lands of the lessor locate	d in the Township or District afor) acres, more or le
any formation	underlying the herein leased la	ing conducted on the premises, and is used for storage of gas a	or oil or gas is found in paying sprovided under paragraph 7 he pipe line to which he may connes, and shall pay Lessor one e	quantities thereon,
) part of all oil produced and as price at the pipel	1 dans		
for all gas pro Dollars per yea royalty is so pa	duced and sold from the prem or on each gas well while, throu old said well shall be held to be	uises, payable quarterly; provide gh lack of market, gas therefron e a paying well under paragraph	d, Lessee shall pay Lessor a roya m is not sold or used off the pr a 2 hereof.	lty at the rate of Freemises, and while s
4. The Lesse	ee shall commence operations f	or a well on the premises on o	or before April 23	19 78 or n
to the date with any and all of a period of of payment of not been intermediate.	ther first said rental is payable ther rights conferred. The drilling year after its completion, and fone year to resume the payme rentals the provisions hereof grants.	as aforesaid, but also the Les ing of a non-productive well st d following the exhaustion or a	months that operating payment, shall cover not only see's option of extending that penall be accepted by the Lessor in bandonment of all wells the Lessor operations for another well, effect thereof shall continue in for	the privilege grant griod as aforesaid, and lieu of delay rental f ee shall have the rig
d 5. All mone	ys coming due hereunder shall	be paid or tendered to		
direct, by conditions provided conditions provided written	vided for herein unless the Less notice by registered mail from	the Lessor of his intention to	e of the Lessee to make any pay or perform the same for ten leclare such default.	days after having
o his taking and or nor shall Lesse	use of gas shall be wholly at hee be liable for any shortage or	is own risk, the Lessee not to be failure in the supply of gas for	o be taken through his own applied excess thereof. Lessor further cover held liable for any accident or for said domestic use.	enants and agrees t lamage caused there
g 7. Lessee si G all rights and shall pay to the	e Lessor a rental at the rate of	\$2.00 per acre per yearse shall remain in full effect	eased premises for the storage As full payment for such stor x, while the premises are so used,	age rights, the Les and so long as the st
lease bears to	the total acreage comprising the	unit.	unitize this lease with other less in the event this lease is so unit royalty above provided, as the	icreage covered by
fee.	s herem provided shall be paid	the Lessor only in the proport	he undivided fee simple estate to ion which his interest bears to the	e whole and undivi
and shall have wells of Lesso placed on said growing crops	the right to use, free of cost, or. Lessee shall also have the premises, including the right to on said lands, and, when requ	gas, oil and water produced on right at any time to remove o draw and remove easing. Less nested by Lessor, shall bury its	on said premises without the wri- ient for the proper use and dev- said land for its operations ther- all or any part of the machinery see shall pay for damages cause a pipe lines below plow depth.	clopment of this le con, except water for fixtures or structu d by its operations
allowed. In ex- such part or r fault shall not any assignee the	est or estate of either party he vent this lease shall be assigne parts shall fail or make default operate to defeat or affect this hereof shall make due payment	ereto may be assigned, the pried as to any part or parts of in the payment of the proport ilease insofar as it covers a part of said rental. No change of said rental.	vilege of assigning in whole or the above described land and the ionate part of the rents due from rt or parts of said land upon when	assignee or assignee him or them, such tich the said Lessee
tified copy the	- ditti ditti inotice (t)	the Lessee and it has been fu	rnished with a written transfer of	r assignment or a

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.

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 oil or gas is produced in paying quantities.

duced in paying quantities.