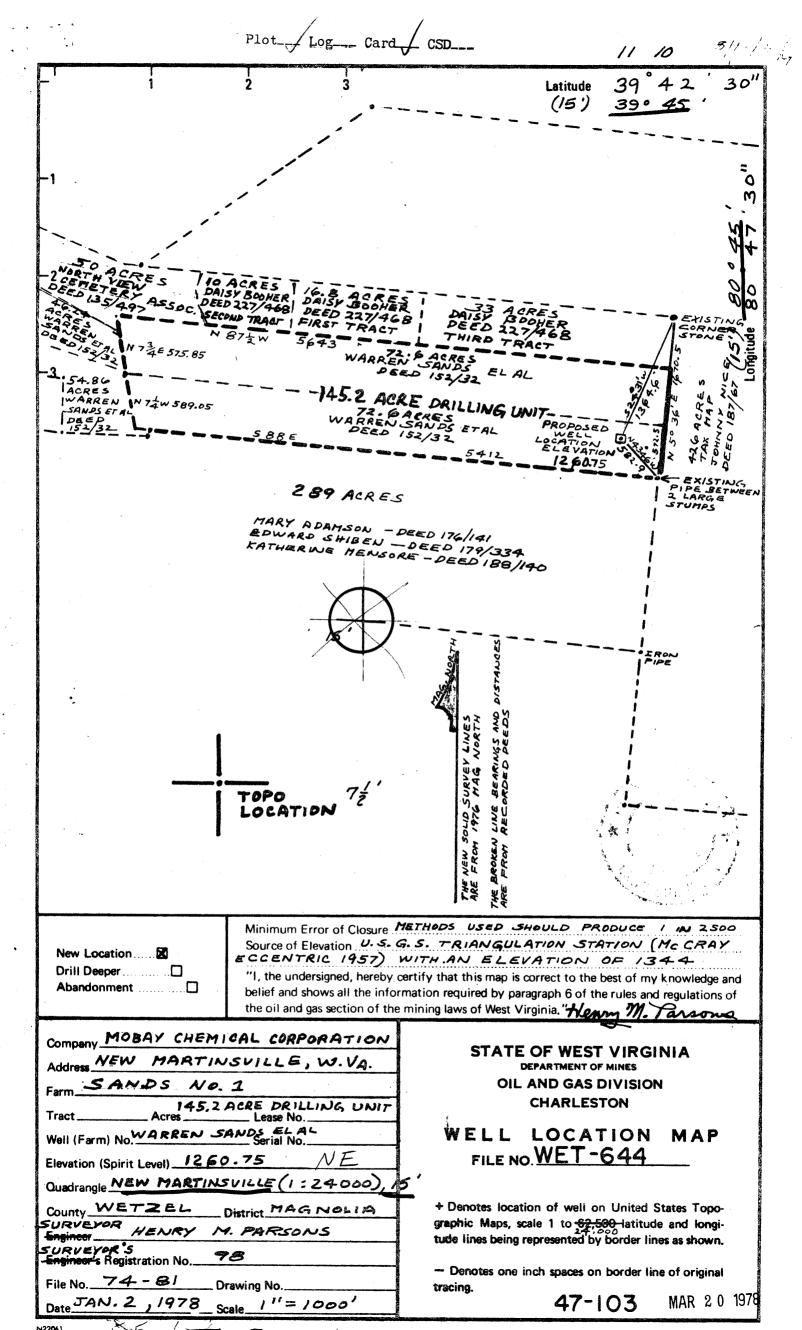
(2 z)



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

Datem	January	8	19
Oronato	m10		

FORM IV								Well No.	W. Sands	0111.0 1/1
[08-78]						PERATOR'S R			No. 47 -	103 0644
[00-10]	•	DRILLI	NG, FRA	CTURI	NG AND	OR STIMULAT	TING, OR PHYS	ICAL CHANGE	, spape u	County Perm
LL TYPE: (011	/ Ca	s_X_/	Lic	quid Ir	jection	_/ Waste D	isposal/		
								Deep X /	Shallow	_/)
								uadrangle: <u>Ne</u> v	v Martinsv	ille
T OPERATO	■ Mobav	Chem	ical Co	rpora	ation	I	DESIGNATED AG	ENT Mobay Cher	nical Corp	oration
	Penn							New Martin		
•	Pitts	hurgh	_ PA	15209	5					
		<u> </u>	<u> </u>					1. 31	ر التانيان	1 / 1 4 1
RMITTED WO	RK: Dri	.11	_/ Con	vert	/	Drill deepe	r X / Red	r111/	éture or st	Imulate
	Plu	g off	old for	mat10	n	/ Perfora	te new format	ion/	A1. 14 1	980
	Oth	er phy	sical c	hange	in we	ll (specify)			
								01	Le Cas be	45.07
ERMIT ISSU	ED ON M	lav 24			. 1979		OIL & GAS IN	SPECTOR FOR THIS	WORK! N	1.NES
F APPLICAT								ip Tracy		
CONTIN	UOUS PRO ING. VE	GRESSI	on from	DRIL	LING OF	₹ .	Address	Middlebourne	, WV 261	149
cological '			_		n y				0	_ feet
								Cable Tools		
WALEL	strata d	enth:	Fresh.	NA	feet	salt,	NA feet.			
			•				NA feet.	the area? No		
Coal s	eam dept	hs:	NA			Is coal be	eing mined in	the area? <u>No</u>		19_79
Coal s	eam dept	hs:	NA			Is coal be	eing mined in	the area? No		19 <u>79</u>
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Coal s Work w ASING AND ASING OR JBING TYPE	eam dept	nced _ PROGRAM SPECT	NA June IFICATIO	11		Is coal be	eing mined in and complete	CEMENT FILL-U	,	
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Coal s Work w ASING AND ASING OR UBING TYPE	TUBING I	nced _ PROGRAM SPECT	NA June FICATION Weight per ft	11 ONS		Is coal be	and complete INTERVALS Left in wel	CEMENT FILL-UOR SACKS (Cubic feet) 150 sks Neat 4% Cacl	Kinds	
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Coal s Work w ASING AND ASING OR JBING TYPE Anductor resh water coal atermediat coduction abing iners PEN FLOW I Product (If a Secon	TUBING I Size 11 3/4 11 1/2 1 1/2 DATA cing for Gas: In Fi Static r pplicable d product	mation itial nal op Tim ock pr	NA June IFICATION Weight per ft 42 24 11 1/2 orionen flow e of op essure, to mult ormation	Il ONS New X X X iskan ow, en fle iple	V 480 Ow betw	FOOTAGE For drilling 305' 2050' 6914' 6670' Mef/d ween initial sig (surface	ing mined in and complete INTERVALS Left in wel 305' 2050' 6914' 6670' Oil: Initi Final and final to measurement	CEMENT FILL-UOR SACKS 1 (Cubic feet 150 sks Neat 4% Cacl 200 sks RFC Fay zone depended open flow, open flow, ests, hour Pay zone dep	Rinds Sizes Depths 3 Perforat Top th 6763'-6 Bb Rb rs ours shut 1	PACKERS et ions: Battom fee
Coal s Work w ASING AND ASING OR JBING TYPE Anductor resh water pal atermediat noduction abing iners PEN FLOW I Product (If a Secon	TUBING I Size 11 3/4 11 1/2 1 1/2 DATA cing for Gas: In Fi Static r pplicable d product	mation itial nal op Tim ock pr	NA June IFICATION Weight per ft 42 24 11 1/2 orionen flow e of op essure, to mult ormation	Il ONS New X X X iskan ow, en fle iple	V 480 Ow betw	FOOTAGE For drilling 305' 2050' 6914' 6670' Mef/d ween initial sig (surface	ing mined in and complete INTERVALS Left in wel 305' 2050' 6914' 6670' Oil: Initi Final and final to measurement	CEMENT FILL-UOR SACKS (Cubic feet, 150 sks Neat 4% Cacl Pay zone dept al open flow, open flow, ests, hour Pay zone dep	Rinds Sizes Depths 3 Perforat Top th 6763'-6 Bb Rb rs ours shut 1	PACKERS et ions: Battom fee ol/d fee

Static rock pressure, _____ psig (surface measurement) after ____ hours shut in

08-78]

ETAILS OF PERFORATED INTERVALS, PRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC.

erforations Oriskany: Frac Notch 6771'-6773'. Frac: 1000 gal Hcl. Breakdown Pressure: 2600 gal. Total Sand: 40,000# 80/100 mesh sand, 80,000# 20/40 mesh sand. 900 bbl gelled 10% acid, 00 bbl gelled water.

1.45

,我**我**有一点保护。据《安全》

ELL LOG

DED HOU					and Silling Consequence of the
FORMATION	Color	llard or Soft	Top Feet	Bottom Feet	Remarks Including indication of all fresh and salt water, coal, cil and gas
SD, SH, Slat Coal SD, SH, Slat LS SS SH, Slat SS, Slat SH, Slat Slat, SS Slat, SH SS, Slat Slat, SS Slat, SH Argil LS SH LS, Chert SS (Limy) LS, Cht	Gy. Blk. GyBrn. Brn. WhGy. Gy. Gy. GyBrn. BrnRd. Brn-rd-gy Gy. Gy. Gy. Gy. BrnGy. Sy-Gy Blk Blk. Brn,Wh,Gy. WhGy. Wh-Brn-Gy	S-H S-H S-H S-H S-H S-H H S-H H S-H	0 947 956 2004 2064 2262 2437 2508 2631 2644 2882 2896 3571 3602 6420 6473 6531 6763 6814	947 956 2004 2064 2262 2437 2508 2631 2644 2882 2896 3571 3602 6420 6473 6531 6763 6814 T.D.6977 (P.I.)	Pittsburgh Coal Pennsylvanian, Mississippian Greenbriar fossiliferous Big Injun Weir Berea Gordon Warren Tully Equivalent Marcellus Onondaga Oriskany

(Attach separate sheete to complete as necessary)

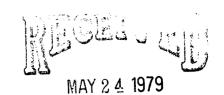
	bay Chemical Corporat:	ion and a	
We	ell Operator	, if it	
Ву	Michael S. Carlson	Geologist	_
Its		enterente de la constitución de la	

NOTE: Regulation 2.02(i) provides as follows:

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







Oil and Gas Division

OIL & GAS DIVISION
DEPT. OF MINES

OIL AND GAS WELL PERMIT APPLICATION

TO THE DEPARTMENT OF MINES,	
Charleston, W. Va.	DATE May 18, 1979
Surface Owner Warren Sands et al	Company Mobay Chemical Corporation
Address Rt. 2, New Martinsville, W.V. 26155	Address Penn Lincoln Parkway West
Mineral Owner W. Sands et al, J. Nice Hrs,	Pittshurgh, PA 15201
Address Adamson-Shiben-Mensore	- T74114 D
Rt. 2 New Martinsvile, WV 26155 Coal Owner Warren Sands et al	Well No. 1 Elevation 1260.75
Address Rt. 2, New Martinsville, WV 26155	District Magnolia County Wetzel
Coal Operator None	N
Address PERMIT MUST BE POSTED AT THE WELL SITE	
All provisions being in accordance with Chapter 22, of the W. Va. Code, the location is hereby approved for <u>drilling deeper</u> . This permit shall expire if operations have not commenced by <u>2-11-80</u> ,	INSPECTOR TO BE NOTIFIED Phillip Tracy ADDRESS Middlebourne, W. Va.
Deputy Director - Oil & Gas Division	PHONE
GENTLEMEN:	
The undersigned well operator is entitled to drill upon	the above named farm or tract of land for oil and gas, having fee
title thereto, (or as the case may be) under grant or less	se dated May 1 19 76 by Warren C. and recorded on the day of
	REDRILL FRACTURE OR STIMULATE
OIL AND GAS WELL ORIGINALLY DRILL	LED BEFORE JUNE 5, 1969.
The enclosed plat was prepared by a registered enginee have been notified as of the above date.	er or licensed land surveyor and all coal owners and/or operators
The above named coal owners and/or operator are here to make by Section 3 of the Code, must be received by, o	by notified that any objection they wish to make, or are required or filed with the Department of Mines within ten (10) days. *
Copies of this notice and the enclosed plat were mailed or coal owners at their above shown respective addresssame day with the mailing or delivery of this copy to the	by registered mail, or delivered to the above named coal operators day before, or on the Department of Mines at Charleston, West Virginia.
PLEASE SUBMIT COPIES OF ALL	Very truly yours, MOBAY CHEMICAL CORPORATION
GEOPHYSICAL LOGS DIRECTLY TO:	(Sign Name) Sulson (Markoa)
·	Well Operator By Haddad and Brooks, Inc.
WEST VIRGINIA GEOLOGICAL AND	Penn Lincoln Pkwy. West
	dress Street
EA UA DUA 0/7	perator Pittsburgh
AC-304 - 292-6331	City or Town
	Pennsylvania 15205
	State

*SECTION 3.... If no objections are filed or found by the Department of mines, within said period of ten days from the receipt of notice and plat by the department of mines, to said proposed location, the department shall forthwith issue to the well operator a permit reciting the filing of such plat, that no objections have been made by the coal operators or found thereto by the department and that the same is approved and the well operator authorized to proceed.

47-103-0644-DD PERMIT NUMBER

THIS IS AN ESTIMATE ONLY ACTUAL INFORMATION WILL BE SUBMITTED ON OG-10 UPON COMPLETION

PROPOSED WORK ORDER TO		X DEEPEN	TWIST SIE BILLION BATE		
DRILLING CONTRACTOR: (If NAME S. W. Jack Drillin	, , , , , , , , , , , , , , , , , , ,	RESPONSIBLE AGE			
ADDRESS Indiana, Penr					
TELEPHONE 412-463-919		ADDITESS			
ESTIMATED DEPTH OF COMP.			-455-4400 CABLE TOOLS		
PROPOSED GEOLOGICAL FOR		L. ROTART	CABLE TOOLS		
		 COMB STOPA	GE DISPOSAL		
			LOOD OTHER		
TENTATIVE CASING PROGRAI		ZING WATER	DOOD OTHER		
CASING AND TUBING SIZE	USED FOR DRILLING	LEFT IN WELL	CEMENT FILL UP OR SACKS - CUBIC FT.		
20 - 16	_				
13 - 10 11 3/4" 9 - 5/8	305'	305'	150 sx Neat (to surface		
8 - 5/8	2050'	20501	05 N		
7	2000	2050'	95 sx Neat		
5 ½ Production	7200'	7200'	Cemented as needed		
4 ½					
2			Perf. slop 184 7, 13, 14		
Liners		Was and the second	Perf. Bottom Perf. Top		
		33	Perf.: Bottom		
APPROXIMATE COAL DEPTHS	950' Pgh Coal		R 1740' FEFT 2225'		
O DRILL:			BOND AND PERMANENT COPY		
O DRILL DEEPER OR REDRIL SUBMIT FIVE (5) COPIES WELLS DRILLED PRIOR TO MUST ALSO BE SUBMITTE	OF OG - 1, SHOWING ORI TO 1929, A PERMANENT	GINAL PERMIT NUMBER A	AND PERFORMANCE BOND. ON O THE ORIGINAL WELL RECORD		
O FRACTURE - STIMULATE:					
The state of the s	RIGINALLY DRILLED BEF AND ORIGINAL WELL R:	ORE JUNE 5, 1929, FIVE (E	5) COPIES OG - 1, PERFORMANCE		
	RIGINALLY DRILLED ON	AND/OR AFTER JUNE 5. 1	929, FIVE COPIES OG - 1, SHOW-		
Required forms must be filed four (24) hours in advance.	d within ninety (90) days of	completion for bond release	e. Inspector to be notified twenty-		
The following waiver must become	pe completed by the coal o	perator if the permit is to b	e issued within ten days of receipt		
$m{VAIVER}$: I the undersigned, Age	nt for	Coal Company, Own	er or Operator of the coal under		
		maps this proposed well loc			
We theproviding operator has c	————— Coal Company omplied with all rules and re	have no objections to said egulations in Articles 4, 5, and	well being drilled at this location, d 7, Chapter 22 of the West Virginia		
			th original permit For Coal Company		
			Official Title		



STATE OF WEST VIRGINIA DEPARTMENT OF MINES



THE REAL PROPERTY.

Oil and Gas Division T. OF MINE

OIL AND GAS WELL PERMIT APPLICATION

		OF MINE
TO THE DEPARTMENT OF MINES,		
Charleston, W. Va.	DATE March 6, 1978	
Surface Owner Warren Sands, et al	Company Mobay Chemical	Corporation
Address Rt. 2 New Martinsville, WV 261	.55 AddressPenn Lincoln Pkwy	
Mineral Owner same	Farm Warren Sands, et a	
Addresssame_		
	Well No. 1	
Address		
Coal Operator		County_Wetzel
Address	Quadrangle New Martinsvi	116
THE PERMIT MUST BE POSTED AT THE WELL S All previous being in desordance with Chapter of the W. Ve. Code, the leasten is hereby appro-	27.	
deepening This permit shell or shell of the local transfer to the local transfer transfer to the local transfer transfer to the local transfer transf	TO BE NOTIFIED Phil Tr	
specialists have not commenced by	ADDRESS <u>Middlebourn</u> , WV	,
Dendy Director - Oil & Goo Division SENT DEMEN:	PHONE	
	Suman Abas ab San	
The undersigned well operator is entitled to drill	upon the above named farm of tract of land	d for oil and gas, having fee
tle thereto, (or as the case may be) under grant of	or lease dated19	by warren C.
Sands, et al made to John Richmond 976, in Wetzel County, Book	and recorded on the 3 56A Page 503	rd day of May
NEW WELLDRILL DEE		CTURE OR STIMULATE
OIL AND GAS WELL ORIGINALLY	DRILLED BEFORE JUNE 5, 1969.	e e e
The enclosed plat was prepared by a registered eave been notified as of the above date.	engineer or licensed land surveyor and all co	oal owners and/or operators
The above named coal owners and/or operator are make by Section 3 of the Code, must be received	e hereby notified that any objection they will by, or filed with the Department of Mines	sh to make, or are required within ten (10) days. •
Copies of this notice and the enclosed plat were	nailed by registered mail, or delivered to the	above named coal operators
r coal owners at their above shown respective add ame day with the mailing or delivery of this copy t	ress	defense and the
LEASE SUBMIT COPIES OF ALL	Very truly yours, Mobay Chemic	cal Corporation
EOPHYSICAL LOGS DIRECTLY TO:	(Sign Name) SL Drolles	•
	by Haddad and Br	tor
EST VIRGINIA CEOLOGICAL AND	Penn Lincoln Pkw	
CONOMIC SURVEY . O. BOX 879	Address Street	
ORGANTOWN, WEST VIRGINIA 26505 C-304 - 292-6331	Well Operator Pittsburgh City or Town	Company of the second of the s
	Pennsylvania 15	205
`,	State	
x		
*SECTION 3 If no objections are filed or foundation and plat by the department of mines, to said proposed the filing of such plat, that no objections have been made by	d location, the department shall forthwith issue to th	e well operator a permit reciting
d the well operator authorized to proceed. BLANKET BOND	47-103-0644	••
PERMITE DUM		

"I have read and understand the reclamation requirements as set forth in Chapter 22, Article 4, Section 12-b and will carry out the specified requirements."

Signed by Moure

ACTUAL INFORMATION WILL BE SUBMITTED ON OG-10 UPON COMPLETION

DRILLING		TO DRIDL	DEEPENFRACTURE-STIMULATE			
	G CONTRACTOR:		RESPONSIBLE AGENT			
NAME Delta Drilling			NAME Mobay Chemical Corporation			
	s <u>Indiana, PA</u>	15701	_ ADDRESS New Mart	insville, WV 26155		
TELEPHO	NE <u>465-5657</u>		TELEPHONE 304-45	5-4400		
ESTIMAT	ED DEPTH OF CO	MPLETED WELL: 5200		CABLE TOOLS		
PROPOSE	D GEOLOGICAL F	ORMATION: Gordon	_ /			
TYPE OF	WELL: O	IL GAS	COMB. X STORAGE	DISPOSAL		
			CLING WATER FLO			
TENTATI	VE CASING PROGI	RAM:				
CASI	NG AND TUBING	USED FOR	I DATE IN			
	SIZE	DRILLING	LEFT IN WELL	CEMENT FILL UP OR SACKS - CUBIC FT.		
20 - 16				7		
13 - 10	11 3/4"	350'	350'	cement to surface		
9 - 5/8						
8 - 5/8		2090'	2090	cement w/75 sx & gel		
5 1/2				surface		
4 1/2	production	as needed	1 1 A 1,2	cement vas needed Hell		
3						
2			11 1 4 9 2 12 12 12 12 14 14 14 1 1 1 1 1 1 1 1	Porf. Ton		
Liners			Leave the second	Perf. Top		
<u> </u>				Perf. Bottom		
			- the	A THE RESERVE AND A SECOND SECOND		
APPROXI	MATE FRESH WAT	ER DEPTHS 100 FEE	TSALT WATER	1100 ppp 2200		
APPROXI	MATE COAL DEPT	HS 975' Pittsburgh Co	oal SALI WATER	FEET 2200		
TO DRIL	L:	•	BY WHOM?			
TO DRILI SUBI OF I TO DRILI SUBI WEL	L: MIT FIVE (5) COPI PLAT. L DEEPER OR RED MIT FIVE (5) COPI	ES OF OG - 1, \$100.00 PER RILL: ES OF OG - 1, SHOWING OR R TO 1929, A PERMANENT	BY WHOM? MIT FEE, PERFORMANCE BO	OND AND PERMANENT COPY		
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Official Title

Signed by Mbroke





Oil and Gas Division

OIL & GAS DIVISION DEFT. OF MINES

OIL AND GAS WELL PERMIT APPLICATION

TO THE DEPARTMENT OF MINES,	
Charleston, W. Va.	DATE March 6, 1978
Surface Owner Warren Sands, et al	Company Mobay Chemical Corporation
AddressRt. 2, New Martinsville, WV 26155	News Maties ite W.
Mineral Owner same	Warman Canda at al 1/5 a 15
Address same	
Coal Owner Same	
Address	
Coal Operator	
	Quadrangle New Hartinsville
Address. THIS PERMIT MUST BE POSTED AT THE WELL SITE	
title thereto, (or as the case may be) under grant or least sands, et al made to John Richmond 1976, in Wetzel County, Book 56A X NEW WELL DRILL DEEPER OIL AND GAS WELL ORIGINALLY DRIL	REDRILLFRACTURE OR STIMULATE LED BEFORE JUNE 5, 1969.
have been notified as of the above date.	eer or licensed land surveyor and all coal owners and/or operators
to make by Section 3 of the Code, must be received by,	eby notified that any objection they wish to make, or are required or filed with the Department of Mines within ten (10) days. *
Copies of this notice and the enclosed plat were mailed	by registered mail, or delivered to the above named coal operators
DI DACE CUDMIT CODIEC OF ALL	Very truly yours, Mobay Chemical Corporation
PLEASE SUBMIT COPIES OF ALL GEOPHYSICAL LOGS DIRECTLY TO:	(Sign Name) SLBrodes
	Well Operator by Haddad and Brooks, Inc.
WEST VIRGINIA GEOLOGICAL AND	Penn Lincoln Pkwy, West
BOONOTIES BONVEL	ddress Street
P. O. BOX 879 MORGANTOWN, WEST VIRGINIA 26505 Well (Operator <u>Pittsburgh</u>
AC-304 - 292-6331	City or Town
	Pennsylvania 15205
	State
notice and plat by the department of mines, to said proposed local	the Department of mines, within said period of ten days from the receipt of tion, the department shall forthwith issue to the well operator a permit reciting oal operators or found thereto by the department and that the same is approved
BLANKET BOND	WET-644 PERMIT NUMBER
"I have read and understand the reclamation requirements as	
Chapter 22, Article 4, Section 12-b and will carry out the specified re	

THIS IS AN ESTIMATE ONLY ACTUAL INFORMATION WILL BE SUBMITTED ON OG-10 UPON COMPLETION

PROPOS	SED WORK ORDER	TO X DRILL	DEEPEN	FRACTURE-STIMULATE		
DRILLING CONTRACTOR: (If Known) NAME Delta Drilling			RESPONSIBLE AGENT:			
			Mohay Chemical Corporation			
ADDRES	s Indiana, PA	15701	ADDRESS New Martinsville, WV 26155			
TELEPHO	ONE 465-5657	•	_ TELEPHONE 304-4	55-4400		
ESTIMAT	TED DEPTH OF CO	MPLETED WELL: 3400				
PROPOSE	ED GEOLOGICAL F	ORMATION: Gordon	_			
TYPE OF	F WELL: O	IL GAS	COMB. X STORAG	GE DISPOSAL		
				LOODOTHER		
TENTAT	IVE CASING PROGI			•		
CASI	ING AND TUBING SIZE	USED FOR DRILLING	LEFT IN WELL	CEMENT FILL UP OR SACKS - CUBIC FT.		
20 - 16						
13 - 10	11 3/4"	350 '	350 '	cement to surface		
9 - 5/8		·				
8 - 5/8		2090'	2090'	cement w/75 sx & gel t		
7 5 ½		·		surface		
	production	as needed		cement as needed		
3	······································		The state of the second second	Perf. Top: 1 - 10 - 10 - 10 - 10 - 10 - 10 - 10 -		
2			AND RECEIVED THE RESERVED TO SELECT	Perf. Bottom		
Liners	· · · · · · · · · · · · · · · · · · ·		to be the second			
			A Secretary Commence of the Co	Perf. Bottom		
SUB WEL MUS TO FRAC OIL BON OIL ING Requ	CLS DRILLED PRIO TALSO BE SUBMIT TURE - STIMULATE AND/OR GAS WELI ID, PERMANENT PL AND/OR GAS WELI ORIGINAL PERMIT	ES OF OG - 1, SHOWING ORIGE R TO 1929, A PERMANENT OF TTED. E: L ORIGINALLY DRILLED BEFORM AT AND ORIGINAL WELL RE L ORIGINALLY DRILLED ON A NUMBER, AND PERFORMANCE Filed within ninety (90) days of	COPY OF THE PLAT AND ORE JUNE 5, 1929, FIVE (5) ECORD. AND/OR AFTER JUNE 5, 19 E BOND.	AND PERFORMANCE BOND. ON THE ORIGINAL WELL RECORD COPIES OG - 1, PERFORMANCE 29, FIVE COPIES OG - 1, SHOW- Inspector to be notified twenty-		
				e issued within ten days of receipt		
WAIVER:	I the undersigned, A	Agent for	Coal Company, Owne	er or Operator of the coal under		
	this lease have exam	nined and place on our mine n	naps this proposed well loca	tion.		
	We the providing operator had Code.	Coal Company as complied with all rules and re	have no objections to said a gulations in Articles 4, 5, and	well being drilled at this location, 7, Chapter 22 of the West Virginia		
		-1	1	For Coal Company		

Official Title