

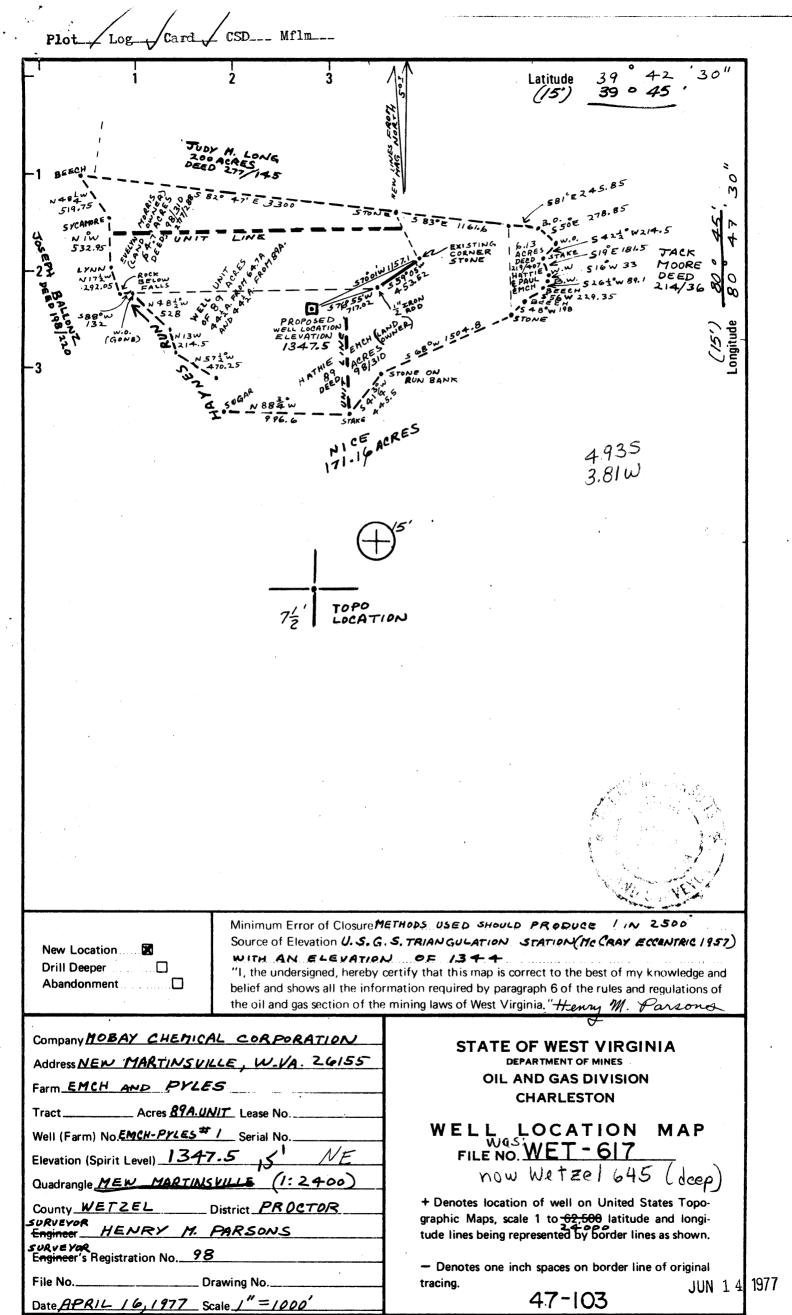
DUNO) 7/00 Suchany 3-3 CAMERON-GARNER 23. Deephol

*33-*3

CAMERON-

234

N22061 DEEP Well



.....



1110-2 Emch-Pyles #1

STATE OF WEST VIRGINIA DEPARTMENT OF MINES

Oil and Gas Division

Quadrangle New Permit No. West	w Mart t-645			RECORD		Cable Recycling_	Comb
Address Penn	Linco nch & /	emical Corpora In Pkwy. West. Amanda Pyles nes Run Hrs	Pittshurch	, PA Casing and Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft. (Sks.)
Well No. 1 District Proc The surface of t	tor	CountyI	Flev. 1347.5 Wetzel	Size 20-16 Cond	333'	333'	150 1
Address 55 E.	nest F Benja	yles min Dr., New by H. Emch &	Martinsville	9 5/8 , 8 5/8	2383'	2383'	150 sx Neat + 75 sx Neat + 4: To surface w/3(
And Drilling Commer Drilling Complet	ddress <u>No</u> oced 8/	w Martinsvill 16/78	e, WV 26155	7 5 1/2 4 1/2 3	6990'	6990'	Neat + 27 D79 4 100 sx 150 sx RFC
Initial open flow Final production	SOOM	cu. ID per day hrs. before test	LLI-	2 Liners Used			
Well treatment d Oriskany: 	ctails: perf. bbls.	6863 <u>-83;</u> 27 st	nots sand, M-38.	Attach copy of co Began feeding	a 1700 =	n	SCF N ₂
Coal was encount	larad at	1020-27					2
resh water	-		·et	Salt Wa	Inches ter6860-70	· · · · · · · · · · · · · · · · · · ·	- Fcet
Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or	Water	Remarks
SD, SH, SLST Coal	gy blk	S-H S	0	1020			

Formation	Color H	ard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks	
SD, SH, S		S-H	0	1020			
=	blk	S	1020	1027		Data Co. 1	
SD, SII, SI		S-H	1027	2107		Pgh. Coal	
LS (fossi		H	2107	2176		Pennsylvania	n-1.:
58 69 616	wh-gy	S-H	2176	2334		Greenbriar	
SH, SLST	gy	Ş	2334	2471		Big Injun	
SS, SLST	gy	Н	2471	2591		•••	
SH, SLST	gy, brn	S-H	2591	2704		Weir	
S, SLST	brn-red	S-11	2704	2718		•	
ILST, SH	brn-rd, gy	S-H	2718	2954		Berea	
SS., SLST	gy	Ħ	2954	2972	SSG	7	12. 7
SLST, SH	gy	S-H	2972	3144	336	Gordon	007
SUST	gy	H	3144	3156	•		1972
SH, SLST	ęу	S-H	3156	3639		Fifth	
SLST	gy	H	3639	3676		4	0358
SH, SLST	gy	S-11	3676	4983		Warren	2.70
SS	wh-gy	S	4983	5004			
SLST, SH	brn, gy	S-11	5004	6514		Alexander	
Argil LS	gy- gy-bl	k II	6514	6570		Devonian Shal	
SH	blk	S	6570	6625		Tully equival	ent
US, Chert	brn, wh, gy	7 11	6625	6859		Marcellus	
55 (limy)	wh-g	H	6859	6906		Onondage	
LS, Cht	wh, brn, gy	7 H	6906	7007		Oriskany	
			7007	T.Ď.		Helderberg	

(nvcr)

^{*} Indicates Electric Log tops in the remarks section.

. / 02	IV-35			DEPART	MENT	OF MINES, OIL	AND GAS DIV	ISION Operator	, 19_
(ODVe)	rse)				1.15	CII OPERIMORIA			H. Emch-A.Pyles Unit
[08-78	8.					ELL OPERATOR'S		API Wel	No. 47 - West - 645
								YSICAL CHANGE	State County Perm
ELL TYPE:								Disposal/	
	(Ir "c	as", P	roduct1	on_X	/	Underground :	storage/	Deep X /	Shallow/)
CATION:	Elevat	ion:	1347.5			Watershed:	laynes Run		
	Distri	ct:	Procto	<u>r</u>		County: W	letze]	Quadrangle: Ne	w Martinsville
						ion	DESIGNATED A	GENT Mobay Ch	emical Corporation
Address	Pe	nn Lir	ncoln I	arkw	ay We	est			insville, WV 26155
	Pi	ttsbu	rgh, PA	1 1.	5205				
SAMITTED WO	ORK: D	rill _	/ c	onver	t	/ Drill deep	er / Re	drill / Fra	acture or stimulate X
						/ Perfora			V Standing V
									ll in the
			nondag			word (bpccity		TOTAL CITE WE	II III CHE
CDMIM TOOM	ED 011					7.0			
ERMIT ISSU					-		OIL & GAS IN	SPECTOR FOR THI	S WORK:
IF APPLICAL CONTINU	uous pr	OGRESS:	ION FRO	M DRI	LLING	OR			
			PERMISS		BTAIN	ED	Address	Middlebourne,	, <u>w</u> v.
			, 19 <u>7</u>						
EOLOGICAL 1	TARGET	FORMAT:	ION:	Orisk	any			Depth <u>686</u>	0-70 Feet
								Cable Tools	·
Water s	strata	depthi	Fresh	,NA	fe	et; salt,	NA feet.		
Coal se	eam dep	ths: _	1020-2	27	······································	Is coal be	eing mined in	the area? No	_
Work we	as comm	enced	Septer	nber	24		and complete	d September 2	6 , 19 79
									The state of the s
ASING AND T	II IUDING								
ASING OR						E DOOMAGE	7 t cm =		
UBING TYPE	S.4 -	1 1	IFICATI Weight	1	1	li .	INTERVALS	CEMENT FILL-UP	PACKERS
·/	Size	Grade	Weight per ft	New	Used	For drilling	Left in well	OR SACKS (Cubic feet)	
onductor	Size 11 3/4	Grade	Weight.	1	Used	li .			Cacl
enductor resh water		Grade	Weight per ft	New	Used	For drilling	Left in well	OR SACKS (Cubic feet) 150 sx near 2	Cacl
enductor resh water	31 3/4	Grade	Weight per ft 42	New	Used	For drilling	Left in well	OR SACKS (Cubic feet) ISU sx near 2; 75sx near 4%Ca	Cacl Minds Sizes
enductor resh water cal	11 3/4 8 5/8	Grade	Weight per ft	New	Used	For drilling	Left in well	OR SACKS (Cubic feet) 150 sx near 2	Cacl Ainds
resh water cal ntermediate	31 3/4	Grade	Weight per ft 42	New X	Used	For drilling 333	Left in well	OR SACKS (Cubic feet) 150 sx neat 2: 75sx neat 4%Cac	Cacl Minds Sizes
enductor resh water eal ntermediate	11 3/4 8 5/8	Grade	Weight per ft 42	New X	Used	333 2383	333 2383	OR SACKS (Cubic feet) 150 sx near 2; 75sx near 4%Car 300 sks near 2	Cacl Rinds Sizes D79
resh water cal ntermediate	11 3/4 8 5/8	Grade	Weight per ft 42	New X	Used	333 2383	333 2383	OR SACKS (Cubic feet) 150 sx near 2; 75sx near 4%Car 300 sks near 2	Cacl Rinds Sizes D79
resh water cal ntermediate reduction ubing	11 3/4 8 5/8	Grade	Weight per ft 42	New X	Used	333 2383	333 2383	OR SACKS (Cubic feet) 150 sx near 2; 75sx near 4%Car 300 sks near 2	Cacl Rinds Sizes D79 Depths set
resh water cal ntermediate reduction ubing	11 3/4 8 5/8	Grade	Weight per ft 42	New X	Used	333 2383	333 2383	OR SACKS (Cubic feet) 150 sx near 2; 75sx near 4%Car 300 sks near 2	Cacl Rinds Sizes D79 Depths set Perforations:
resh water cal ntermediate reduction ubing	11 3/4 8 5/8	Grade	Weight per ft 42	New X	Used	333 2383	2383 6990	OR SACKS (Cubic feet) 150 sx neat 2 75sx neat 4%Car 300 sks neat 2 100 sks RFC 150 sks RFC	Cacl Rinds Sizes D79 Depths set Perforations:
enductor resh water cal stermediate roduction ubing iners	11 3/4 8 5/8 5 1/2	Grade	Weight per ft 42	New X	Used	333 2383	2383 6990	OR SACKS (Cubic feet) 150 sx heat 2; 75sx neat 4%Car 100 sks neat 2 100 sks RFC 150 sks RFC	Cacl Rinds Sizes D79 Depths set Perforations:
enductor resh water pal ptermediate roduction ubing iners	11 3/4 8 5/8 5 1/2	Grade	Weight per ft 42 24	X		333 2383 6990	2383 6990	OR SACKS (Cubic feet) 150 sx neat 2 75sx neat 4%Cad 300 sks neat 2 100 sks RFC 150 sks RFC	Cacl Rinds Sizes D79 Depths set Perforations: Top - Bottom
enductor resh water eal ntermediate reduction ubing iners PEN FLOW DATA Production	11 3/4 8 5/8 5 1/2 TA	Grade	Weight per ft 42 24 Onone	X X X	Cherr	333 2383 6990	2383 6990	OR SACKS (Cubic feet) 150 sx neat 2 75sx neat 4%Car 300 sks neat 2 100 sks RFC 150 sks RFC 7 1930 AS DIVISION Fay zone depth	Cacl Rinds Sizes D79 Depths set Perforations: Top - Bottom
enductor resh water eal ntermediate reduction ubing iners PEN FLOW DATA Production	11 3/4 8 5/8 5 1/2 TA ng form	ation	Weight per ft 42 24 Onone pen flo	X X X A X	Chert	333 2383 6990	2383 6990	OR SACKS (Cubic feet) 150 sx neat 2 75sx neat 4%Cad 300 sks neat 2 100 sks RFC 150 sks RFC	Cacl Rinds Sizes D79 Depths set Perforations: Top - Bottom
enductor resh water cal ntermediate reduction ubing iners PEN FLOW DAT	11 3/4 8 5/8 5 1/2 TA ng form	ation tial oper	Ononce pen flow,	New X X X	Chert	2383 6990 Mer/d	2383. 6990 Oil & C	OR SACKS (Cubic feet) 150 sx neat 2 75sx neat 4%Cad 300 sks neat 2 100 sks RFC 150 sks RFC 150 sks RFC 7 1930 Pay zone depth open flow, —— pen flow, ——	Cacl Rinds Sizes D79 Depths set Perforations: Top - Bottom 6686'/6800' feet Bb1/d
enductor resh water pal ntermediate roduction ubing iners PEN FLOW DAT Producin Gas	11 3/4 8 5/8 5 1/2 TA ng form s: Ini Fin	ation tial operation	Onone pen flow, of ope	X X X A X	Cherra 30 w bet	For drilling 333 2383 6990 Mcf/d Mcf/d ween initial a	Left in well 333 2383 6990 Oil & C	OR SACKS (Cubic feet) 150 sx neat 2 75sx neat 4%Car 300 sks neat 2 100 sks RFC 150 sks RFC 150 sks RFC 4 1930 Fay zone depth open flow, — pen flow, — ts, N/A hours	Cacl Rinds Sizes D79 Depths set Perforations: Top - Bettom 6686'/6800' feet Bb1/d Bb1/d
enductor resh water pal ntermediate roduction ubing iners PEN FLOW DAT Producin Gas	11 3/4 8 5/8 5 1/2 TA ng form s: Ini Fin	ation tial on al oper Time	Ononce pen flow, of open saure,	X X X X X n floor	Chert 30 w bet	Por drilling 333 2383 6990 Mcf/d Mcf/d ween initial assig (surface m	Left in well 333 2383 6990 Oil & C	OR SACKS (Cubic feet) 150 sx neat 2 75sx neat 4%Cad 300 sks neat 2 100 sks RFC 150 sks RFC 150 sks RFC 7 1930 Pay zone depth open flow, —— pen flow, ——	Cacl Rinds Sizes D79 Depths set Perforations: Top - Bettom 6686'/6800' feet Bb1/d Bb1/d
enductor resh water pal ntermediate roduction ubing iners PEN FLOW DAT Producin Gas	11 3/4 8 5/8 5 1/2 TA ng form s: Ini Fin	ation tial on al oper Time	Ononce pen flow, of open saure,	X X X X X n floor	Chert 30 w bet	Por drilling 333 2383 6990 Mcf/d Mcf/d ween initial assig (surface m	Left in well 333 2383 6990 Oil & C	OR SACKS (Cubic feet) 150 sx neat 2 75sx neat 4%Car 300 sks neat 2 100 sks RFC 150 sks RFC 150 sks RFC 4 1930 Fay zone depth open flow, — pen flow, — ts, N/A hours	Cacl Rinds Sizes D79 Depths set Perforations: Top - Bettom 6686'/6800' feet Bb1/d Bb1/d
nductor resh water pal ntermediate roduction ubing iners PEN FLOW DAT Producin Gas	B 5/8 B 5/8 B 1/2 FA Ing form S: Ini Fin Cable	ation tial of al oper Time ck presidue to	Ononce pen flow, of ope ssure, o multi	X X X X X A X A X A A A A A A A A A A A	Chert 30 w bet pomple	Por drilling 333 2383 6990 Mcf/d Mcf/d ween initial asig (surface mation)	2383. 6990 Oil & C Thirtial Final of and final test measurement)	OR SACKS (Cubic feet) 150 sx neat 2 75sx neat 4%Cad 300 sks neat 2 100 sks RFC 150 sks RFC 150 sks RFC AS DIVISION Fay zone depth open flow, pen flow, ts, N/A hours after N/A hours	Cacl Rinds Sizes D79 Depths set Perforations: Top - Bettom 6686'/6800' feet Bb1/d Bb1/d
penductor resh water cal ntermediate reduction ubing iners PEN FLOW DAT Producin Gas Sta	8 5/8 5 1/2 TA ng form s: Ini Fin ntic ro licable	ation tial of al oper Time ck preduction	Onone pen flow, of ope ssure, o multi mation	X X X X X A X A X A A A ple co	Chert 30 w bet pomple	Maf/d Maf/d Mef/d ween initial a sig (surface a tion]	2383 6990 Oil & C Tinitial Final of and final test measurement)	OR SACKS (Cubic feet) 150 sx neat 2 75sx neat 4%Cad 300 sks neat 2 100 sks RFC 150 sks RFC 150 sks RFC AS DIVISION Fay zone depth open flow, pen flow, ts, N/A hours after N/A hours	Cacl Rinds Sizes D79 Depths set Perforations: Top - Bottom 6686'/6800' feet Bb1/d Bb1/d rs shut in
penductor resh water cal ntermediate reduction ubing iners PEN FLOW DAT Producin Gas Sta	B 5/8 B 5/8 Final	ation tial of al oper Time ck pres due to	Ononce pen flow, of ope ssure, o multi mation pen flo	New X X X X X N X N N/A ple co	Chert 30 w bet pomple	Maf/d Maf/d Mef/d ween initial a sig (surface a tion]	2383 6990 Oil & C Thirtial Final of and final test measurement) Oil: Initial	OR SACKS (Cubic feet) 150 sx neat 2 75sx neat 4%Car 300 sks neat 2 100 sks RFC 150 sks RFC 150 sks RFC	Cacl Rinds Sizes D79 Depths set Perforations: Top - Bottom 6686'/6800' feet Bb1/d Bb1/d rs shut in feet Bb1/d
nductor resh water pal ntermediate roduction ubing iners PEN FLOW DAT Producin Gas Sta [If app Second p	B 5/8 B 5/8 Final	ation tial operation al operation tial operation	Ononce pen flow, of ope ssure, o multimation pen flow, flow, of flow, of flow, of flow, of flow, of flow, on flow, on flow, on flow, on flow,	Mew X X X X X X X X X X X X X X X X X X X	Chert 30 w bet pomple	Por drilling 333 2383 6990 Mcf/d Mcf/d ween initial management in the management	2383. 6990 Oil & C Tinal o and final tes measurement) Oil: Initial Final o	OR SACKS (Cubic feet) 150 sx neat 2 75sx neat 4%Cad 300 sks neat 2 100 sks RFC 150 sks RFC 150 sks RFC 7 1930 Fay zone depth open flow, ts, N/A hours after N/A hour Pay zone depth open flow,	Cacl Rinds Sizes D79 Depths set Perforations: Top - Bottom 6686'/6800' feet Bb1/d Bb1/d rs shut in feet Bb1/d
nductor resh water pal ntermediate roduction ubing iners PEN FLOW DAT Producin Gas Sta [If app Second p	8 5/8 5 1/2 FA ng form s: Ini Fin ticable produci s: Ini Fin	ation tial operation al operation tial operation tial operation	Ononce pen flow, of ope saure, of multimation pen flow, of ope	Mew X X X X X X X X X X X X X X X X X X X	Chert 30 w bet pomple	Por drilling 333 2383 6990 Mcf/d Mef/d Mef/d Mcf/d	2383 6990 Oil & College Colle	OR SACKS (Cubic feet) 150 sx neat 2 75sx neat 4%Cad 300 sks neat 2 100 sks RFC 150 sks RFC 150 sks RFC 4 1930 Pay zone depth open flow, ts, N/A hours after N/A hour Pay zone depth open flow, pen flow, pen flow,	Cacl Rinds Sizes D79 Depths set Perforations: Top - Bottom 6686'/6800' feet Bb1/d Bb1/d rs shut in feet Bb1/d Bb1/d Bb1/d

-78]

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

Perforations Onondaga chert: 6687, 89, 91, 93, 95, 97, 99, 6701, 03, 05, 07, 13, 15, 38, 40, 42, 44, 53, 55, 57, 59, 81, 83, 85, 87, 89. 26 holes. Frac 2000 gal. Mod. 202 acid. Total Sand: 40,000# 80/100 mesh sand. 70,000# 20/40 mesh sand. 5000 gal Hcl.acid.

L LOG

FORMATION	Color	llard or Soft	18 Top Feet	Bottom Feet	Remarks Including indication of all fresh and salt water, coal, cil and gas
See original completion report.					
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			**		
	# 				
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		u cyclinia de la compania del compania del compania de la compania del la compania de la compania del la compania del la compania de la compania del la		: :	
			Statement of December 1990 complements		
			RECOLLEGE TO A TOTAL OF THE TOT	•	•
			SALE BOOKER VICE STORY S		

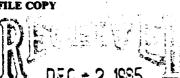
(Attach separate sheets to complete as necessary)

We	Mobay Chemical Corporation
Ву	Michael S. Carlson
Its	

NOTE: Regulation 2.02(i) provides as follows:

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

EORM (Obve		(B)
7/85	·	





1)	Date: Nov	ember	22	. 12 85
2)	Operator's Well No	Emch/P	yles #1	W
3)	API Well No.		103	645 -Fra
-		State	County	Permit

STATE OF WEST VIRGINIA

DIVISION OF DEPARTMENT OF ENERGY, OIL AND GAS DIVISION DEPARTMENT OF ENAPPLICATION FOR A WELL WORK PERMIT

4)	WELL TYP									
		B (1	f "Gas", I	Production	n, —X			istorage Haynes Run		_/ Shallow/)
5)	LOCATION					100	Watershed:			
			strict:			172				New Martinsville
6)			-			rugroni	2: 10025	=	AGENT Andy	
	Address		204 Un	-				Address	Box 3	
			Mariet	-		750			Reade	r. WV 26167
8)	OIL & GAS				FIED			9) DRILLING CO		
	Name		ert Lo			· · · · · · · · · · · · · · · · · · ·		Name	Unknown	
	Address		eral Do dlebou			6149		Address	-	
10)	PROPOSE	D WELL	WORK:	Drill		_/ Drill	deeper	/ Redrill	/ Stimulate_X	/
,								orate new formation		
								······································		
11)	GEOLOGI	CAL TAR	GET FOR	MATION	Go	rdon 4	49			_
	12) Estima				310	00	fee	et .		
	13) Approx	cimate tra	ta depths:	Fresh.	250,	59k	feet; sa	lt. 2300	feet.	
	14) Approx				1/1	00'			area? Yes	/ No X
15)	CASING A							our come mines in the		
•	SING OR	1 TOD.		IFICATION	S	#1	FOOTAG	E INTERVALS	CEMENT FILLAUP	h BACKEDS
	BING TYPE		1	Weight	1	.		1	OR SACKS	PACKERS
		Size	Grade	per ft.	New	Used	For drilling	Left in well	(Cubic feet)	
Conc	ductor	ļ	ļ		 				-	Kinds
Fresi	h water		ļ		 	1				
Coal			<u> </u>		<u> </u>	1				Sizes
Inter	mediate		ļ	ļ	<u> </u>				1	
Prod	luction	5 1/2	alread	y in	hole		Il ly	UNTING L	vell reco	possins set (attached
Tubi	ng				<u> </u>			+-/		
Linc					<u> </u>					Perforations:
										Top Bottom
					Ţ					
		<u> </u>		4	·	1				-
							OFFICE USE			
	•				. `	1	DRILLING P	ERMIT		
Darr	nit number	47	103-0	215_E	W				De	cember 31 19 85
Fell	iin number	-4/-	100-0	14.1.1.	ı a.L.				Dat	
This	nermit cove	ring the u	ell operate	or and we	Il locatio	on shown	helow is evidenc	e of permission grant	ed to drill in accordan	ce with the pertinent legal re
quir	ements subje	ct to the c	onditions	contained	herein a	and on the	reverse hereof	ntification must be o	ven to the District Oil	and Gas Inspector (Pofer to
No. 8	Prior to the	construc	tion of ros	ds, locati	ons and	pits for a	ny permitted wor	k. In addition, the w	vell operator or his con	and Gas Inspector. (Refer to tractor shall notify the proper
distr	ict oil and g	as inspecto	or 24 hour	s before a	ctual pe	rmitted w	ork has commen	ced.)		
The	permitted we	ork is a s d	lescribed in	the Notic	ce and A	Application	n, plat, and recla	mation plan, subject	to any modifications a	nd conditions specified on the
reve	rse hereof.	_	_			_				
Perr	nit expires _	Dec	ember	31,	<u> 1987</u>	,	unless w	ell work is commenced	d prior to that date and	prosecuted with due diligence.
,	Bond:	Acons		,1 -+ .	Casi	ng 1	ee WPC	D CIE	Other	•
1	Jona .	Agent		Ylat: V	Casi	ng :	WPU.	P S&E	Other	
		M	ルリ	1 C	m) 4	\cup 13	79 11/	MUMM		
-										,
								1	y all	>
NO	TE: Keepo	ne copy o	f this perm	nit posted	at the d	rilling loc	ation.	DifectorDiv	vision of Oil	and Cas
	_							01166017/01	TOTON OF OIL	and Gas File

Signed by _





Oil and Gas Division

CIL & GAS DIVISION
T. OF MINES

OIL AND GAS WELL PERMIT APPLICATION

TO THE DEPARTMENT OF MINES,	W 20 1070
Charleston, W. Va. Amand Pyle	es Hrs. DATE May 30, 1978
Surface Owner Hattie L. Emch & c/o Ernest 532 Briarcliff Court 55 E. Ben Address New Martinsville, WV 26155	njamin Dr. Penn Lincoln Parkway West Address Pittsburgh, PA 15205
Como	Emch=Pvles 106.2
Mineral Owner	Farm Acres Acres Location (waters) Haynes Run
Address Consolidation Coal Company	Location (waters)
Coal Owner Library, PA	Well No. Elevation Elevation
Address	District_ProctorCounty_Wetzel
Coal Operator	
Address	
PERMIT MUST BE POSTED AT THE WELL SITE	
rovisions being in accordance with Chapter 22,	
e W. Va. Code, the location is hereby approved	INSPECTOR
drilling . This permit shall expire if	TO BE NOTIFIED Phillip L. Tracy
stions have not commenced by 10-5-78	
	ADDRESS Box 173, Middlebourne, W.Va.
John horas	PHONE 758-4573
eputy Director - Oil & Gas Division	PHONE 758-4575
GENTLEMEN:	
The undersigned well operator is entitled to drill u	apon the above named farm or tract of land for oil and gas, having f
	lease dated $\frac{5/10/77 \& 5/18}{19.76}$ by Hattie L. En
Ernest Pyles, et al Mobay Chemical	Corporation 5/11/77 & 6/19/76 day of
10 - 57Δ	
19, in County, Book 57A	& 56 Page 480 & 695
••	
X NEW WELLDRILL DEEPE	REDRILL FRACTURE OR STIMULATE
••	REDRILL FRACTURE OR STIMULATE
X NEW WELLDRILL DEEPEOIL AND GAS WELL ORIGINALLY DI	REDRILLFRACTURE OR STIMULATE RILLED BEFORE JUNE 5, 1969.
	REDRILLFRACTURE OR STIMULATE RILLED BEFORE JUNE 5, 1969. gineer or licensed land surveyor and all coal owners and/or operator hereby notified that any objection they wish to make, or are require
NEW WELL	REDRILL FRACTURE OR STIMULATE RILLED BEFORE JUNE 5, 1969. gineer or licensed land surveyor and all coal owners and/or operator hereby notified that any objection they wish to make, or are require by, or filed with the Department of Mines within ten (10) days. *
	REDRILL FRACTURE OR STIMULATE RILLED BEFORE JUNE 5, 1969. gineer or licensed land surveyor and all coal owners and/or operator hereby notified that any objection they wish to make, or are require by, or filed with the Department of Mines within ten (10) days. * ailed by registered mail, or delivered to the above named coal operator ss day before. or on the
NEW WELL	REDRILLFRACTURE OR STIMULATE RILLED BEFORE JUNE 5, 1969. gineer or licensed land surveyor and all coal owners and/or operator hereby notified that any objection they wish to make, or are require by, or filed with the Department of Mines within ten (10) days. * ailed by registered mail, or delivered to the above named coal operator ss day
NEW WELL	REDRILLFRACTURE OR STIMULATE RILLED BEFORE JUNE 5, 1969. gineer or licensed land surveyor and all coal owners and/or operator hereby notified that any objection they wish to make, or are require by, or filed with the Department of Mines within ten (10) days. * ailed by registered mail, or delivered to the above named coal operator ss day
OIL AND GAS WELL ORIGINALLY DEPER OIL AND GAS WELL ORIGINALLY DEPER OIL AND GAS WELL ORIGINALLY DEPER OF ALL DEPER OF ALL	REDRILLFRACTURE OR STIMULATE RILLED BEFORE JUNE 5, 1969. gineer or licensed land surveyor and all coal owners and/or operator thereby notified that any objection they wish to make, or are require by, or filed with the Department of Mines within ten (10) days. * ailed by registered mail, or delivered to the above named coal operator ss day
NEW WELL	REDRILLFRACTURE OR STIMULATE RILLED BEFORE JUNE 5, 1969. gineer or licensed land surveyor and all coal owners and/or operator hereby notified that any objection they wish to make, or are require by, or filed with the Department of Mines within ten (10) days. * miled by registered mail, or delivered to the above named coal operator ss day before, or on the the Department of Mines at Charleston, West Virginia. Very truly yours, Mobay Chemical Corporation (Sign Name) Well Operator
OIL AND GAS WELL ORIGINALLY DI The enclosed plat was prepared by a registered enchave been notified as of the above date. The above named coal owners and/or operator are to make by Section 3 of the Code, must be received by Copies of this notice and the enclosed plat were may or coal owners at their above shown respective addressame day with the mailing or delivery of this copy to PLEASE SUBMIT COPIES OF ALL GEOPHYSICAL LOGS DIRECTLY TO:	REDRILLFRACTURE OR STIMULATE RILLED BEFORE JUNE 5, 1969. gineer or licensed land surveyor and all coal owners and/or operator thereby notified that any objection they wish to make, or are require by, or filed with the Department of Mines within ten (10) days. * alled by registered mail, or delivered to the above named coal operator ss before, or on the the Department of Mines at Charleston, West Virginia. Very truly yours, Mobay Chemical Corporation (Sign Name) Well Operator By HADDAD AND BROOKS, INC.
OIL AND GAS WELL ORIGINALLY DI The enclosed plat was prepared by a registered enchave been notified as of the above date. The above named coal owners and/or operator are to make by Section 3 of the Code, must be received by Copies of this notice and the enclosed plat were may or coal owners at their above shown respective addressame day with the mailing or delivery of this copy to PLEASE SUBMIT COPIES OF ALL GEOPHYSICAL LOGS DIRECTLY TO: WEST VIRGINIA GEOLOGICAL AND	REDRILLFRACTURE OR STIMULATE RILLED BEFORE JUNE 5, 1969. gineer or licensed land surveyor and all coal owners and/or operator hereby notified that any objection they wish to make, or are require by, or filed with the Department of Mines within ten (10) days. * ailed by registered mail, or delivered to the above named coal operator ss day
OIL AND GAS WELL ORIGINALLY DI The enclosed plat was prepared by a registered enclosed plat was prepared by a registered enclosed been notified as of the above date. The above named coal owners and/or operator are to make by Section 3 of the Code, must be received be Copies of this notice and the enclosed plat were may or coal owners at their above shown respective addressame day with the mailing or delivery of this copy to PLEASE SUBMIT COPIES OF ALL GEOPHYSICAL LOGS DIRECTLY TO: WEST VIRGINIA GEOLOGICAL AND ECONOMIC SURVEY P. O. BOX 879	REDRILLFRACTURE OR STIMULATE RILLED BEFORE JUNE 5, 1969. gineer or licensed land surveyor and all coal owners and/or operator thereby notified that any objection they wish to make, or are require by, or filed with the Department of Mines within ten (10) days. * miled by registered mail, or delivered to the above named coal operator ss day
OIL AND GAS WELL ORIGINALLY DI The enclosed plat was prepared by a registered enclosed plat was prepared by a registered enclosed been notified as of the above date. The above named coal owners and/or operator are to make by Section 3 of the Code, must be received be Copies of this notice and the enclosed plat were may or coal owners at their above shown respective addressame day with the mailing or delivery of this copy to PLEASE SUBMIT COPIES OF ALL GEOPHYSICAL LOGS DIRECTLY TO: WEST VIRGINIA GEOLOGICAL AND ECONOMIC SURVEY P. O. BOX 879	REDRILLFRACTURE OR STIMULATE RILLED BEFORE JUNE 5, 1969. gineer or licensed land surveyor and all coal owners and/or operator thereby notified that any objection they wish to make, or are require by, or filed with the Department of Mines within ten (10) days. * miled by registered mail, or delivered to the above named coal operator ss day
	REDRILLFRACTURE OR STIMULATE RILLED BEFORE JUNE 5, 1969. gineer or licensed land surveyor and all coal owners and/or operator hereby notified that any objection they wish to make, or are require by, or filed with the Department of Mines within ten (10) days. * alled by registered mail, or delivered to the above named coal operator ss
	REDRILLFRACTURE OR STIMULATE RILLED BEFORE JUNE 5, 1969. gineer or licensed land surveyor and all coal owners and/or operator hereby notified that any objection they wish to make, or are require by, or filed with the Department of Mines within ten (10) days. * miled by registered mail, or delivered to the above named coal operator ss day
	REDRILLFRACTURE OR STIMULATE RILLED BEFORE JUNE 5, 1969. gineer or licensed land surveyor and all coal owners and/or operator thereby notified that any objection they wish to make, or are require before, or filed with the Department of Mines within ten (10) days. * alled by registered mail, or delivered to the above named coal operator ss
	REDRILLFRACTURE OR STIMULATE RILLED BEFORE JUNE 5, 1969. gineer or licensed land surveyor and all coal owners and/or operator hereby notified that any objection they wish to make, or are require by, or filed with the Department of Mines within ten (10) days. * ailed by registered mail, or delivered to the above named coal operator ss before, or on the the Department of Mines at Charleston, West Virginia. Very truly yours, Mobay Chemical Corporation (Sign Name) Well Operator By HADDAD AND BROOKS, INC. Penn Lincoln Parkway West Address of ell Operator Pittsburgh City or Town Pennsylvania 15205
	REDRILLFRACTURE OR STIMULATE RILLED BEFORE JUNE 5, 1969. gineer or licensed land surveyor and all coal owners and/or operator thereby notified that any objection they wish to make, or are required by, or filed with the Department of Mines within ten (10) days. * alled by registered mail, or delivered to the above named coal operator ss
	REDRILLFRACTURE OR STIMULATE RILLED BEFORE JUNE 5, 1969. gineer or licensed land surveyor and all coal owners and/or operator thereby notified that any objection they wish to make, or are required by, or filed with the Department of Mines within ten (10) days. * tailed by registered mail, or delivered to the above named coal operator ss
NEW WELL	REDRILLFRACTURE OR STIMULATE RILLED BEFORE JUNE 5, 1969. gineer or licensed land surveyor and all coal owners and/or operator thereby notified that any objection they wish to make, or are require by, or filed with the Department of Mines within ten (10) days. * tailed by registered mail, or delivered to the above named coal operator ss
	REDRILLFRACTURE OR STIMULATE RILLED BEFORE JUNE 5, 1969. gineer or licensed land surveyor and all coal owners and/or operator thereby notified that any objection they wish to make, or are require by, or filed with the Department of Mines within ten (10) days. * alled by registered mail, or delivered to the above named coal operator ss

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

PROPOSED WORK ORDER	TO X DRILL	DEEPEN I	FRACTURE-STIMULATE	
DRILLING CONTRACTOR:	•	RESPONSIBLE AGENT:		
NAME Delta Drillin		NAME Mobay Chem	ical Corporation	
	Street, Indiana, PA 15701	TIDDITIDO	insville, WV 26155	
TELEPHONE (412) 465		TELEPHONE (304)	455-4400	
	DMPLETED WELL: 7100'	ROTARY	CABLE TOOLS	
	FORMATION:			
TYPE OF WELL:	OIL GAS COM	MB. X STORAGE	E DISPOSAL	
	RECYCLING	WATER FLO	OODOTHER	
TENTATIVE CASING PROG	DAM			
TENTATIVE CASING PROG	KAM:	•		
CASING AND TUBING	USED FOR	LEFT IN	CEMENT FIFE UP	
SIZE	DRILLING	WELL -	OR SACKS - CUBIC FT.	
20 - 16				
13 - 10 11 3/4" 9 - 5/8	450 '	450 '	cemented to surface	
8 - 5/8	24201	2420'	comont w//5 akg and gol to	
7	2420	2420	cement w/75 sks and gel to	
5 ½			surface	
4½ production		•	cement as needed	
3		11 X	Perf. Top	
2			Perf. Bottom	
Liners .		1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	Perf. Top	
			Perf. Bottom	
	<u>'</u>	150'		
APPROXIMATE FRESH WAT	TER DEPTHS 100' FEET 18		2253 FEET	
APPROXIMATE COAL DEPT	HS <u>1090' Pgh. Coal</u>	,		
IS COAL BEING MINED IN	No		•	
TO DRILL:				
SUBMIT FIVE (5) COPOOF PLAT.	IES OF OG - 1, \$100.00 PERMIT	FEE, PERFORMANCE B	OND AND PERMANENT COPY	
TO DRILL DEEPER OR RED	DILL			
WELLS DRILLED PRIO MUST ALSO BE SUBMI	ES OF OG - 1, SHOWING ORIGINA R TO 1929, A PERMANENT COPY TTED.	L PERMIT NUMBER AN OF THE PLAT AND T	D PERFORMANCE BOND. ON THE ORIGINAL WELL RECORD	
- TO FRACTURE - STIMULAT				
		•		
BOND, PERMANENT PI	L ORIGINALLY DRILLED BEFORE AT AND ORIGINAL WELL RECOR	JUNE 5, 1929, FIVE (5) (COPIES OG - 1, PERFORMANCE	
ING ORIGINAL PERMIT	CORIGINALLY DRILLED ON AND NUMBER, AND PERFORMANCE BO	OR AFTER JUNE 5, 1929 IND.	9, FIVE COPIES OG - 1, SHOW-	
Required forms must be	filed within ninety (90) days of com		Inspector to be notified twenty-	
four (24) hours in advance	ce.			
The following waiver mu	et he completed by the			
nereof.	st be completed by the coal operate	or it the permit is to be i	ssued within ten days of receipt	
VAIVER: I the undersigned,	Agent for	Coal Company O		
this lease have exar	nined and place on our mine maps	this proposed well locati	or Operator of the coal under	
	Coal Company have			
providing operator h Code.	as complied with all rules and regulati	ons in Articles 4, 5, and 7	Chapter 22 of the West Virginia	
		Fo	r Coal Company	
	in the second se			

Official Title



STATE OF WEST VIRGINIA

DEPARTMENT OF MINES

Oil and Gas Division

OIL AND GAS WELL PERMIT APPLICATION

TO THE DEPARTMENT OF MINES,		
TO THE DEPARTMENT OF MINES,		
Charleston, W. Va. Amand Pyles	Hrs. DATE 5/12/77	
Surface Owner Hattie L. Emch & c/o Ernest 1 532 Briarcliff Court 55E. Ben Address New Martinsville, WV 26155	Pyles Company Mobay Chemical	Corporation kway West
Address New Martinsville, WV 26155	Address Pittsburgh, PA	15205
Mineral Owner Hattie L. Emch & Amanda Pylo	es Hrs. Farm Emch - Pyles	Acres 89
Address_same	,	
Coal Owner Consolidation Coal Co.	Well No1	Elevation 1347.5
Address Library, PA		
Coal Operator same	Quadrangle New Martinsv	ille
Address	Address of the State of the Sta	
THIS PERMIT MUST BE POSTED AT THE WELL	SITE	
THE TENNE MEET OF TOOLS AND THE THE	••••	•
All provisions being in accordance with Chapter		
of the W. Va. Code, the location is hereby appro-	ved	
for <u>drilling</u> . This permit shall expir	re if	
operations have not commenced by 9-26-77	<u> </u>	
Holat I last	Phil	lip Tracy
	INSPECTOR TO BE NOTIFIED.	lebourn W Va
GENTLEMEN:	PH: 758-4573 ADDRESS Midd	,
The undersigned well operator is entitled to drill up	non the above named farm or tract of la	nd for oil and gas having fe
The undersigned wen operator is change to dim up	5/10/77 & 5/18	76 Hattie I. Em
title thereto, (or as the case may be) under grant or Ernest Pyles, etal Mobay Chemical	lease dated $\frac{3720777}{2}$	$\frac{970}{1/77}$ by $\frac{1100220}{6/1976}$
19 in County, Book 57/	Δ & 56 - 480 & 695	day of
X NEW WELLDRILL DEEPE	RFREDRILLFR	ACTURE OR STIMULATE
OIL AND CAS WELL ORIGINALLY DE	RILLED BEFORE JUNE 5, 1969.	
OID MID GUD WEED ORIGINADEL DI		
The enclosed plat was prepared by a registered eng	gineer or licensed land surveyor and all	coal owners and/or operators
The enclosed plat was prepared by a registered enghave been notified as of the above date.	gineer or licensed land surveyor and all	
The enclosed plat was prepared by a registered enghave been notified as of the above date. The above named coal owners and/or operator are been notified.	gineer or licensed land surveyor and all o	vish to make, or are required
The enclosed plat was prepared by a registered enghave been notified as of the above date. The above named coal owners and/or operator are to make by Section 3 of the Code, must be received by	gineer or licensed land surveyor and all or hereby notified that any objection they we by, or filed with the Department of Mines	vish to make, or are required s within ten (10) days. *
The enclosed plat was prepared by a registered enghave been notified as of the above date. The above named coal owners and/or operator are it to make by Section 3 of the Code, must be received be Copies of this notice and the enclosed plat were may or coal owners at their above shown respective address	gineer or licensed land surveyor and all or the series of	vish to make, or are required s within ten (10) days. * e above named coal operators on the
The enclosed plat was prepared by a registered enghave been notified as of the above date. The above named coal owners and/or operator are it to make by Section 3 of the Code, must be received be Copies of this notice and the enclosed plat were may or coal owners at their above shown respective address	gineer or licensed land surveyor and all or the series of	vish to make, or are required s within ten (10) days. * e above named coal operators on the
The enclosed plat was prepared by a registered enghave been notified as of the above date. The above named coal owners and/or operator are it to make by Section 3 of the Code, must be received be Copies of this notice and the enclosed plat were may or coal owners at their above shown respective address	gineer or licensed land surveyor and all or hereby notified that any objection they we by, or filed with the Department of Mines all diverged to the second of the Department of Mines at Charleston, we have a second or second o	vish to make, or are required s within ten (10) days. * e above named coal operators on the
The enclosed plat was prepared by a registered enghave been notified as of the above date. The above named coal owners and/or operator are to make by Section 3 of the Code, must be received be Copies of this notice and the enclosed plat were major coal owners at their above shown respective addressame day with the mailing or delivery of this copy to	hereby notified that any objection they way, or filed with the Department of Mines at Charleston, Very truly yours, Mobay Chem	vish to make, or are required s within ten (10) days. * e above named coal operators on the West Virginia.
The enclosed plat was prepared by a registered enghave been notified as of the above date. The above named coal owners and/or operator are to make by Section 3 of the Code, must be received by Copies of this notice and the enclosed plat were may or coal owners at their above shown respective addressame day with the mailing or delivery of this copy to PLEASE SUBMIT COPIES OF ALL	hereby notified that any objection they we by, or filed with the Department of Mines at Charleston, we be the Department of Mines at Charleston, we will be the Department of Mines at Charleston, we will open the Mell Open Well	vish to make, or are required within ten (10) days. * e above named coal operators on the West Virginia. ical Corporation
The enclosed plat was prepared by a registered enghave been notified as of the above date. The above named coal owners and/or operator are it to make by Section 3 of the Code, must be received be Copies of this notice and the enclosed plat were may or coal owners at their above shown respective address same day with the mailing or delivery of this copy to PLEASE SUBMIT COPIES OF ALL GEOPHYSICAL LOGS DIRECTLY TO: West Virginia Geological and Economic Surv P. O. Box 879	hereby notified that any objection they way, or filed with the Department of Mines all the Department of Mines the Department of Mines at Charleston, Wery truly yours, Mobay Chem (Sign Name)	vish to make, or are required to within ten (10) days. * e above named coal operators on the West Virginia. ical Corporation ator OKS, INC.
The enclosed plat was prepared by a registered enghave been notified as of the above date. The above named coal owners and/or operator are had to make by Section 3 of the Code, must be received by Copies of this notice and the enclosed plat were major coal owners at their above shown respective addressame day with the mailing or delivery of this copy to PLEASE SUBMIT COPIES OF ALL GEOPHYSICAL LOGS DIRECTLY TO: West Virginia Geological and Economic Survey.	hereby notified that any objection they were by, or filed with the Department of Mines at Charleston, were truly yours. Mobay Chem (Sign Name) Well Oper By HADDAD AND BRO Penn Lincoln Pa Street	vish to make, or are required to within ten (10) days. * e above named coal operators on the West Virginia. ical Corporation cator OKS, INC.
The enclosed plat was prepared by a registered enghave been notified as of the above date. The above named coal owners and/or operator are it to make by Section 3 of the Code, must be received be Copies of this notice and the enclosed plat were may or coal owners at their above shown respective address same day with the mailing or delivery of this copy to PLEASE SUBMIT COPIES OF ALL GEOPHYSICAL LOGS DIRECTLY TO: West Virginia Geological and Economic Surv P. O. Box 879 Morgantown, W. Va. 26505	hereby notified that any objection they were by, or filed with the Department of Mines at Charleston, were truly yours, Mobay Chem (Sign Name) Well Open By HADDAD AND BRO	vish to make, or are required swithin ten (10) days. * e above named coal operators on the West Virginia. ical Corporation cator OKS, INC.
The enclosed plat was prepared by a registered enghave been notified as of the above date. The above named coal owners and/or operator are it to make by Section 3 of the Code, must be received be Copies of this notice and the enclosed plat were may or coal owners at their above shown respective address same day with the mailing or delivery of this copy to PLEASE SUBMIT COPIES OF ALL GEOPHYSICAL LOGS DIRECTLY TO: West Virginia Geological and Economic Surv P. O. Box 879 Morgantown, W. Va. 26505	hereby notified that any objection they way, or filed with the Department of Mines at Charleston, where the Department of Mines at Charleston, which was been as a constant of Mines at Charleston, which was been as a constant of Mines at Charleston, which was been as a constant of Mines at Charleston, which was a constant of Mines at C	vish to make, or are required to within ten (10) days. * e above named coal operators on the West Virginia. ical Corporation Aron OKS, INC. rkway West
The enclosed plat was prepared by a registered enghave been notified as of the above date. The above named coal owners and/or operator are it to make by Section 3 of the Code, must be received be Copies of this notice and the enclosed plat were may or coal owners at their above shown respective address same day with the mailing or delivery of this copy to PLEASE SUBMIT COPIES OF ALL GEOPHYSICAL LOGS DIRECTLY TO: West Virginia Geological and Economic Surv P. O. Box 879 Morgantown, W. Va. 26505	hereby notified that any objection they were by, or filed with the Department of Mines at Charleston, were truly yours. Mobay Chem (Sign Name) Well Oper By HADDAD AND BRO Penn Lincoln Pa Street ell Operator Pittsburgh City or Tow	vish to make, or are required to within ten (10) days. * e above named coal operators on the West Virginia. ical Corporation Aron OKS, INC. rkway West

RIANKET ROND

*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.

"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."

WET-617

PERMIT NUMBER
47-103

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

PROPOSEI	WORK ORDER T	OX DRILL	DEEPEN F	RACTURE-STIMULATE		
DRILLING	CONTRACTOR: (If Known)	RESPONSIBLE AGENT	:		
		ing Co.	NAME Mobay Chemical Corporation			
	Indiana, PA			insville, WV 26155		
TELEPHON	E 412-463-91	91		55-4400		
ESTIMATE	D DEPTH OF COM	PLETED WELL: 3300'	ROTARY X	CABLE TOOLS		
PROPOSED	GEOLOGICAL FO	RMATION: GOLDON	••			
TYPE OF	WELL: OI		A contract of the contract of	E DISPOSAL		
·		RECYCLIN	G WATER FLO	OODOTHER		
•						
TENTATIV	E CASING PROGR	AM:				
CASIN	G AND TUBING	USED FOR	LEFT IN	CEMENT FILL UP		
	SIZE	DRILLING	WELL	OR SACKS - CUBIC FT,		
20 - 16	11 3/4"	450 '	/.50			
13 - 10 9 - 5/8	11 3/4	450	450	cemented to surface		
8 - 5/8		2420	2420	cement w/75 sx and gel		
7				to surface		
5 ½						
4 ½ pro	duction			cement as needed		
3			- 1997 - 2017 - 第3 - 2 9 40 - 72	Perf. Top Perf. Bottom		
Liners			min a section of	Perf. Top		
			a de la companya de l	Perf. Bottom		
			11501			
APPROXIM	ATE FRESH WAT	ER DEPTHS 100' FEET	1150' 1850' SALT WATER	2253 • FEET •		
		HS 1090'Pgh, Coal				
IS COAL	BEING MINED IN	THE AREA? ^{No}	BY WHOM?	The state of the s		
TO DRILL		A				
	MIT FIVE (5) COPI	ES OF OG - 1, \$100.00 PERMI	r fee, performance	BOND AND PERMANENT COPY		
ז ז מפת מש	DEEPER OR RED	RILL.				
		ES OF OG - 1, SHOWING ORIGINAL	NAL PERMIT NUMBER A	ND PERFORMANCE BOND. ON		
WEL		R TO 1929, A PERMANENT CO		THE ORIGINAL WELL RECORD		
TO FRACT	TURE - STIMULATI	S:	•			
OIL .	AND/OR GAS WELI			COPIES OG - 1, PERFORMANCE		
	•	ORIGINALLY DRILLED ON AN		29, FIVE COPIES OG - 1, SHOW-		
ING (ORIGINAL PERMIT	NUMBER, AND PERFORMANCE	BOND.	•		
-	ired forms must be (24) hours in advan	* * * *	ompletion for bond release	. Inspector to be notified twenty-		
The thereof.	following waiver mu	st be completed by the coal ope	rator if the permit is to be	e issued within ten days of receipt		
	I the undersigned	Agent for	Coal Company Own	er or Operator of the coal under		
WAIVER:	- ·	mined and place on our mine ma				
				well being drilled at this location,		
				d 7, Chapter 22 of the West Virginia		
	Code.					
			·	For Coal Company		

Official Title





OIL & GAS DIVISION FT. OF MINES

WET-645

Oil and Gas Division

OIL AND GAS WELL PERMIT APPLICATION

•					
TO THE DEPARTMENT OF MINES,	•				
Charleston W. Va.	Dulos Ura	DATE Oc	tober 17, 1977		
Hottic I Emph S a/a E	rnest Pules		Mohay Chomical	Corpo	ration
Surface Owner 532 Briarcliff Court 5 New Martinsville, WV 2	5E. Benjamin 6155	Dr.	Penn Lincoln P Pittsburgh, PA	arkway 1520	West
Hattie L. Emch & Amand	a Pyles Hrs.	E	mch-Pyles	1 m	106.2
Mineral Owner		Farm	Haynes R		cres
Address Same Consolidation Coal Co.		Location (waters) Haynes R		12/7 5
Coal Owner Consolidation Coal Co.		Well No	Proctor	Е	levation 1347.5 Wetzel
Address	•	District	Nos Worth		ounty
Coal Operator same		Quadrangle	New Haltinsvi	.116	
AddressAUGT BE DOCTED AT THE	WELL SITE		•		
THIS PERMIT MUST BE POSTED AT THE	WELL SIIL				
All provisions being in accordance with C					
of the W Va. Code, the location is hereb		PECTOR	TUD DL21	1 m	. 1
for dueling. This permit sn		BE NOTIF	TED Phil.	lip Tra	icy
operations have not commenced by 4-	-29-78 ADDR	RESS	Midd:	Lebourr	, W. Va.
Notet &	DIIO	II ===			
Deputy Director - Oil & Gas Division	PHON	NE <u>758</u>	3-4573		
GENTLEMEN:	•				
The undersigned well operator is entitled to	drill upon the ab	ove named	farm or tract of land	d for oil	and gas, having fee
title thereto, (or as the case may be) under gr	rant or lease dated	a 5/10/7	7 & 5/18 19	76	Hattie L. Em
Ernest Pyles, etal made to Mobay Chem	ical Corporat	ion	5/11	./77 & 6	5/19/76
Ernest Pyles, etal Mobay Chem 19, in County, Boo	57A & 56	_ Page4	80 & 695		, ·
v					
NEW WELLDRILL	•			CTURE	OR STIMULATE
OIL AND GAS WELL ORIGINAL	TEX DRIFTED RE	EFORE JU	NE 5, 1969.		-
The enclosed plat was prepared by a registe have been notified as of the above date.	red engineer or lie	censed land	d surveyor and all co	oal owners	s' and/or operators
The above named coal owners and/or operat to make by Section 3 of the Code, must be rec	or are hereby notine	fied that a with the I	ny objection they wi Department of Mines	sh to mal within ter	te, or are required 1 (10) days. *
Copies of this notice and the enclosed plat w	vere mailed by regi	istered mai	l, or delivered to the	above nar	ned coal operators
or coal owners at their above shown respective same day with the mailing or delivery of this co	opy to the Departr	ment of M	ines at Charleston, W	est Virgin	elore, or on the
			urs, Mobay Chemi	_	
PLEASE SUBMIT COPIES OF ALL			Sh Direct		
GEOPHYSICAL LOGS DIRECTLY TO:	(Sign	n Name)_			
LIEST VIDCINIA CEGIOCICAL AND		•	HADDAD AND BRO	=	
WEST VIRGINIA GEOLOGICAL AND ECONOMIC SURVEY	Address	Pe	nn Lincoln Park Street	way wes	S C
P. O. BOX 879	of	Pi	ttsburgh		
MORGANTOWN, WEST VIRGINIA 26505	Well Operator		City or Town		
AC-304 - 292-6331		T _O	nnsylvania 152		
				<u> </u>	
			State		
ACCOMINATION OF THE PROPERTY O		_			
*SECTION 3 If no objections are filed or notice and plat by the department of mines, to said pro	found by the Depar	rtment of mi department s	ines, within said period of hall forthwith issue to the	of ten days ie well oper	from the receipt of
the filing of such plat, that no objections have been made	de by the coal operate	ors or found	thereto by the departme	nt and that	the same is approve
and the well operator authorized to proceed.			was:		
	BLANKET DO	מאמ	WET-617-RI	EV.	PERMIT NUMBER
"I have read and understand the replamation					LNMII NUMBER
"I have read and understand the reclamation require Chapter 22, Article 4, Section 12-b and will carry out the			47-103		

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

PROPOSED WORK ORDER TO	X_DRILL	DEEPEN F	RACTURE-STIMULATE
DRILLING CONTRACTOR: (If	Known)	RESPONSIBLE AGENT:	
NAME Delta Drilling		NAME Mobay Chem	ical Corporation
NAME Delta Drilling 115 South 6th St ADDRESS Indiana, PA 15	701	ADDRESS	nsville, WV 26155
TELEPHONE 412-261-153			5-4400
ESTIMATED DEPTH OF COMPL	ETED WELL:	ROTARY	CABLE TOOLS
PROPOSED GEOLOGICAL FORM			
TYPE OF WELL: OIL_		COMB X STORAGE	DISPOSAT
		*	OOD OTHER
·	ICEO TOE	MAILIT TEC	OTHER
TENTATIVE CASING PROGRAM	[:		
CASING AND TUBING	USED FOR	LEFT IN	CEMENT FILL UP
- SIZE	DRILLING	WELL	OR SACKS - CUBIC I-T.
20 - 16 13 - 10	450¹	/50	
13 - 10 11 3/4" 9 - 5/8	430	450	cemented to surface
	2420	2420	775 -1- 1
8 - 5/8	2420	2420	cement w/75 sks and gel to surface
5 ½			1.00
4½ production	•		coment as needed
3			cement as needed
2			Perf. Top Perf. Bottom
Liners			Perf. Top
			Perf. Bottom
		1150'	
APPROXIMATE FRESH WATER	DEPTHS 100' FEET		2253 FEET
APPROXIMATE COAL DEPTHS _	1090' Pgh. Coal	SALI WATER_	FEET
AFFROAIMATE COAL DEFTING_	No		•
IS COAL BEING MINED IN THE	AREA?	BY WHOM?	
TO DRILL:			
SUBMIT FIVE (5) COPIES OF PLAT.	OF OG - 1, \$100.00 PERM	IT FEE, PERFORMANCE BO	OND AND PERMANENT COPY
TO DRILL DEEPER OR REDRIL	Le .		
		INAT DEDMIN NUMBER AND	D PERFORMANCE BOND. ON
WELLS DRILLED PRIOR T MUST ALSO BE SUBMITTED	O 1929, A PERMANENT C	OPY OF THE PLAT AND T	HE ORIGINAL WELL RECORD
TO FRACTURE - STIMULATE:	**		
OIL AND/OR GAS WELL OR	IGINALLY DRILLED BEEC	NDE IIINE E 1000 EIVE (E) C	COPIES OG - 1, PERFORMANCE
BOND, PERMANENT PLAT	AND ORIGINAL WELL RE	CORD	OPIES OG - 1, PERFORMANCE
	IGINALLY DRILLED ON A	ND/OR AFTER JUNE 5, 1929	, FIVE COPIES OG - 1, SHOW-
			• • • • • • • • • • • • • • • • • • •
four (24) hours in advance.	within ninety (90) days of	completion for bond release.	Inspector to be notified twenty-
, , , , , , , , , , , , , , , , , , , ,			•
•			
•			
The following waiver must be	e completed by the coal on	crator if the normit is to be in	ssued within ten days of receipt
thereof.		•	
WAIVER: I the undersigned, Agen	1 for CONSILIDA ta	Coal Company Owner	or Operator of the goal under
		aps this proposed well location	
We the CONSOI 10A	tion contain	have no 1' "	ll being drilled at this location,
providing operator has a	omplied with all males and	nave no objections to said we	Il being drilled at this location,
Code.	mphed with an rules and reg	ulations in Articles 4, 5, and 7	Chapter 22 of the West Virginia
		M	
		11/1/1	V. (1/4-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-
and the second s		Fo	r Coal Company
		1/10e	Pres 1 DENT
			· · · · · · · · · · · · · · · · · · ·

Official Title

STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION OFFICE OF OIL AND GAS

AFFIDAVIT OF PLUGGING AND FILLING WELL

AFFIDAVIT SHOULD BE IN TRIPLICATE, one copy mailed to the Department, one copy to be retained by the Well Operator and the third copy (and extra copies if required) should be mailed to each coal operator at their respective addresses.

rann name:_	Emch, H.L. &	Pyles, Amanda	_Operator Well No.:Em	nch/Pyles # 1	
		1,345'		v Martinsville	
	District:	Proctor		Wetzel	
•			County: <u>39</u> Deg. <u>40</u> Min.		
	Longitude: 0			Sec. 24.12Sec.	
		1 001 44 631 01	DegMin	Sec.	
Well Type: C	IL GAS	<u>√</u>			
Company	Stone Energy Co	orporation Coal O	perator No Coal Operator		
	6000 Hampton Cente	er, Suite B or Own	ner <u>no occi operator</u>		
	Morgantown, WV 26				
Agent	Timothy P. McGr		Operator None Declared		
Permit Issue	A	egor or Own 124,2012	ner		
		7 3 4 7 3 4			
STATE OF W	ST VIRGINIA,	Æ	AFFIDAVIT		
County ofM					
Jerry	Holcomb on	J Storm Si	mmons heing first		
	all			duly sworn according to law deport d were employed by the above name	ose
well operator,	and bandcibated in the	work of plugging a	nd filling the above well say	d were employed by the above nam	ned
4 to - 7 10 177	4 4 4 4		and and and mon day	that said work was commenced	on
the 16th	day ofApril_	, 20 <u>12</u> and the	well was plugged and filled	in the following manner:	on
the 15th	day ofAprilFROM	, 20 <u>12</u> , and the	well was plugged and filled	in the following manner:	on T
11.6	cay orApril	, 20 <u>12</u> , and the	well was plugged and filled PIPE REMOVED 5.5" - 5,806'	in the following manner: LEFT 11.75° Surface to 333'	on
TYPE Brine Water Cement	FROM 6,990 TD 6,600°	, 20 <u>12</u> , and the	well was plugged and filled PIPE REMOVED	in the following manner:	on
TYPE Brine Water Cement Coment	FROM 6,990 TD 6,600' 5,806'	TO 6,600° 6,000° 4,783°	well was plugged and filled PIPE REMOVED	LEFT 11.75* Surface to 333*	on -
TYPE Brine Water Cement Cement Cement	FROM 6,990 TD 6,600' 5,806' 3,124'	TO 6,600° 6,000° 4,783° 1,907°	well was plugged and filled PIPE REMOVED	LEFT 11.75" Surface to 333' 8.625" Surface to 2,383'	on
TYPE Brine Water Cement Cement Cement Cement	FROM 6,990 TD 6,600' 5,806' 3,124' 1,127'	TO 6,600° 6,000° 4,783° 1,907° 920°	well was plugged and filled PIPE REMOVED	LEFT 11.75" Surface to 333' 8.625" Surface to 2,383'	on
TYPE Brine Water Cement Cement Cement	FROM 6,990 TD 6,600' 5,806' 3,124' 1,127' 433'	TO 6,600° 6,000° 4,783° 1,907° 920° Surface	well was plugged and filled PIPE REMOVED	LEFT 11.75" Surface to 333' 8.625" Surface to 2,383'	on
TYPE Brine Water Cement Cement Cement Cement Cement Cement Cement	FROM 6,990 TD 6,600' 5,806' 3,124' 1,127' 433' Between All Of The	TO 6,600° 6,000° 4,783° 1,907° 920° Surface Cement Plugs	well was plugged and filled PIPE REMOVED 5.5" - 5,806'	LEFT 11.75" Surface to 333' 8.625" Surface to 2,383'	on
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TYPE Brine Water Cement Cement Cement Cement Cement Cement Description or	FROM 6,990 TD 6,600' 5,806' 3,124' 1,127' 433' Between All Of The	TO 6,600° 6,000° 4,783° 1,907° 920° Surface Cement Plugs	PIPE REMOVED 5.5" - 5,806'	LEFT 11.75* Surface to 333' 8.625* Surface to 2,383' 5.5* from 5,806' to 6,990' and that the work of plugging and filling RECEIVED	ng
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