

FORM WW-2(B)
(Obverse)

7/85

FILE COPY (1) 1986



1)	Date:	July	15,	12.86

2) Operator's Well No. Du Pont

3) API Well No. $\frac{47}{107} \frac{107}{107} = \frac{6-22}{107}$

Permit

DIVISION OF OIL & CAS STATE OF WEST VIRGINIA DEPARTMENT OF PARTMENT OF ENERGY, OIL AND GAS DIVISION APPLICATION FOR A WELL WORK PERMIT

		.,	/ 0	. X	,					
4) WELLTY	PE: A O	ii	/ Gas		/ X /	Underground st	orage	/ Deep X	/ Shallow	_/)
B (If "Gas", Production X / Underground storage / Deep X / Shallow /) 5) LOCATION: Elevation: 662.5 Watershed: Sandy Creek/Ohio River // District: Lubeck 3 County: Wood Quadrangle: Lubeck WV-Ohio (7.5)								449		
•	D	trict:I	ubeck		3	County:	_Wood	Quadrangle:I	ubeck WV-Ohio	(7.5 mim.
6) WELL OP	ERATOR_	E. I.	<u>du Pon</u>	t	CODE:	14650) DESIGNATED	AGENT P. B.	Vining/co E.I	. Du Pont
Address						Box_1217	Address	P. O. Box	rg, WV 26102	
			urg, W		102				g, WV 20102	
8) OIL & GA				IED		9	DRILLING CO	ontractor: y Resources		
Name		P. Rob		T) 1		T7		GOO COMM	erce sq.	
Addres			. 6 Mt Wells,		easant 26150	ESI.	Address		n,WV 25301	
10) PROPOSE	D WELL V	WORK:	Drill	_X	_/ Drill	deeper	/ Redrill	/ Stimulate/	X /	
10, 1110100						/ Perfora	te new formation			
			Other pl	iysical	change in w	vell (specify)				
11) GEOLOG	ICAL TAR	GET FOR	MATION,			y Sandston	e		·	
12) Estim					4400	feet				
13) Appro	oximate trat	a depths:	Fresh,		`50				v	,
14) Appro					None	Is coa	ll being mined in the	e area? Yes	/ NoX	/
15) CASING	and tubi	NG PRO	GRAM						l	
CASING OR TUBING TYPE		SPEC	IFICATIONS Weight			FOOTAGE IN	TERVALS	CEMENT FILL-UP OR SACKS	PACKERS	
30001101112	Size	Grade	per ft.	New	Used	For drilling	Left in well	(Cubic feet)	Q = 0	1=15-
Conductor	11-3/4	"'H-40	42	_X		250'	250 '	130 s x s (s	utifid) ET (un 10,00
Fresh water	#								Sizes	Marie Control of the
Coal	0 5 /011	77 55	07		77	10010	21001	200 (-		
Intermediate	8-5/8"	1	24		X	2100'	2100'	380 s x s (s	Opposite de la	
Production	5-1/2"		15.5		X	4400	4400'	440 OLA	L REQUIREN	RY
Tubing	2-3/8"	J-33	4.7		X -	4200°	4200	Rucs 150	13	
Line.s								10402/070	Top Botto	m
	#									
	-									
	-И,	1	1	'			Note	e: cmt. vols.	include 25%	excess
						, •				
					0	FFICE USE C	DNLY			and the second s
					D	RILLING PE	RMIT			
	1	7 107	1409			-		T ₁	ılv 28 19	86
Permit number	<u>'t</u>	1-101	<u>-1403</u>					Dat	te	
This served and	ina tha u	all operat	or and wel	Llocati	on shown h	elow is evidence o	of permission grant	ted to drill in accordar	ice with the pertinent le	egal re-
quirements sub	ject to the c	onditions	contained	herein	and on the i	reverse hereof Not	ification must be g	iven to the District Oil	and Gas Inspector, (Re itractor shall notify the	fer to
No. 8) Prior to t	he construc	tion of ro	ads, locatio	ns and	pits for any	y permitted work.	In addition, the v	well operator or his cor	itractor shall notify the	proper
						rk has commenced			and anaditions amonified	on the
	work is as d	lescribed in	the Notic	e and	Application,	, plat, and reciama	ation plan, subject	to any modifications a	nd conditions specified	on the
reverse hereof. Permit expires	J	uly 2	8, 19	88		unless well	work is commence	d prior to that date and	prosecuted with due di	ligence.
remit expires				******				· wV.	100	
							2	and on t	SPR MAN	
Bond:	Agent		Plati	Cas	ine F	ee WPCP		Other		
	ALE	, ,	421	1	1005	33		1	// ///	•
		(,			13	>				
į t							Sett	110	The state of the s	eneration;;;;;;
NOTE: Keep	one copy o	f this perr	nit posted	at the o	drilling loca	tion.	irector, Mi	vision of Oil	and Gas	File
		800	the rever	e cide	of the APP	LICANT'S COPY	for instructions to	o the well operator.		
		366	: Line Leacid	the second is	OR SPECTAL !	MOULETIE O COE E		· · · · · · · · · · · · · · · · · ·	``.	



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Gil und Gas Zivision

Date	Sept. 11, 1986	
Operator Well No.	S G-22	=
Farm	Wittman No. 1	-
API No.	47 - 107 - 1403	

1986

WELL OPERATOR'S REPORT

OF

DOTTING	FRACTURING	AND/OR	STIMULATING,	OR	PHYSICAL	CHANGE
1174 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	4 4 6 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	The second secon				

	/ 330 000	niemeal	1		
IL TYPE: Oil / Gas X / Liquid Injection (If "Gas," Production X / Underground				low/)	
CATION: Elevation: 662.5 Watershed Sar	ndy Creek/	Ohio River			
District: Lubeck County Wood	<u> </u>	Quadrangle	Lubeck W	<u>V-Ohio 7.5 Mi</u>	Ln
MPANY E. I. du Pont de Nemours				Cement	
DRESS Box 1217, Parkersburg, WV 26102	Caşing	Used in		fill up	
SIGNATED AGENT Peter B. Vining	Tubing	Drilling	in Well	Cu. ft.	
DORESS Same	Size				
RFACE OWNER John, Betty & John Wittman	20-(16) Cond.	40'	40'		
ODRESS Rt. 1, Box 126A, Washington, WV 26181	11-3/4"	254'	254	Surface	
NERAL RIGHIS OWNER Wittman	9 5/8				
ODRESS Same	8 5/8	1584"	15841	Surface	
IL AND GAS INSPECTOR FOR THIS WORK Glen P.	7				
Robinson ADDRESS Rt. 1, #6 Mt. Pleasant Es	Š	4399'	4399°	4399'-2880	
ERMIT ISSUED July 28, 1986	4 1/2		-		
RILLING COMMENCED August 4, 1986	3				
RILLING COMPLETED August 11, 1986	2-3/8		4147°		
E ADDITCABLE: PLUGGING OF DRY HOLE ON					
TOMITMIDUS PROGRESSION FROM DRULLING OR	Liners used				
REWORKING. VERBAL PERMISSION OBTAINED					
		De	oth 418	2feet	
Depth of completed well 4399 feet	Rotary	X / Cab	le Tools		
Depth of completed well 4333 feet; Water strata depth: Fresh feet;	Salt	fee	t		
Water strata depth: FreshReco, Coal seam depths:None	Ts coal	l being mi	ned in th	me area? No	
Coal seam depths: None					
OPEN FLOW DATA		•		ion foot	
OPEN FLOW DATA Producing formation Oriskany	P	ay zone de	ptn 4	102 IEEE	
men flow 200 Mcf/d	Oil: I	urtian obe	N IIOM		
Final open flow (100) Mcf/d	F	inal open	ITOM	DIJL/ W	
mine of open flow between ini	tial and	final test	:S 5	vonta	
Static rock pressure 1350 psig(surfa	CE TRESULT	ement) aff	er 12 h	ours sinc m	
in multiple completion	m)				
a a a a a a a a a a a a a a a a a a a	P	ay zone d	epth	Ph1 /d	3 ,
MCI/Q	OTT: T	Tirria ob			
rimal open flow Mcf/d	Oil: B	Final open	IIOM		
Time of open flow between in	itial and	final tes	cs	nours	
Static rock pressurepsig(surface	ce measure	ement) aft	eri	ours snut in	Į.
		(Con	tirue on	reverse side)

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

Perforated Oriskany Sandstone at 4182' to 4198' with 8 shots per foot. Acidized with 1500 gallons 15% HCl.

WELL LOG

Surface Soil 0 30 Shale and Sandstone 740 900 Shale and Sandstone 1400 1550 Shale and Siltstone 1550 4100 Limestone 4200 4240 Oriskany Limestone 4240 T.D.				REMARKS
Shale and Sandstone 30 740 Sandstone 740 900 Shale and Sandstone 900 1400 Sandstone 1400 1550 Shale and Siltstone 1550 4100 Limestone 4200 4240 Oriskany Limestone 4240 4400 T.D.	COLOR HARD OR SOFT TO	OP FEET	BOTTOM FEET	Including indication of all fres and salt water, coal, oil and ga
Shale and Sandstone 30 740 Sandstone 740 900 Shale and Sandstone 900 1400 Sandstone 1400 1550 Shale and Siltstone 1550 4100 Limestone 4200 4240 Oriskany Limestone 4240 4400 T.D.			20	
Sandstone 740 900 Shale and Sandstone 900 1400 Sandstone 1400 1550 Shale and Siltstone 1550 4100 Limestone 4100 4200 Sandstone 4200 4240 Oriskany Limestone 4240 4400 T.D.	Soil	V		
Shale and Sandstone 900 1400 Sandstone 1400 1550 Shale and Siltstone 1550 4100 Limestone 4100 4200 Sandstone 4200 4240 Oriskany Limestone 4240 4400 T.D.	nd Sandstone	30	740	
Sandstone 1400 1550 Shale and Siltstone 1550 4100 Limestone 4100 4200 Sandstone 4200 4240 Oriskany Limestone 4240 4400 T.D.	ne	740	900	
Shale and Siltstone 1550 4100 Limestone 4100 4200 Sandstone 4200 4240 Oriskany Limestone 4240 T.D.	nd Sandstone	900	1400	
Limestone 4100 4200 Sandstone 4200 4240 Oriskany Limestone 4240 T.D.	ne	1400	1550	
Sandstone 4200 4240 Oriskany Limestone 4240 4400 T.D.	nd Siltstone	1550	4100	
Limestone 4240 4400 T.D.	ne	4100	4200	
404 1892 401 4100	ne	4200	4240	Oriskany,
Mol 4100	ne	4240	4400	T.D.
Mol 4100				
	1592		-	
475 4180	4100			

(Attach separate sheets as necessary)

E. I.	. du Por	at de N	emours	& Co.,	Inc.			
Wel	U Oper	ator	Photo	12 ·	•			
By:	Peter	B. Vin	ing/Des	signated	Agent			
Cate:	- Mileson Company of the Company of	11, 19				NEXT (MICHINE)	-1	5.
								400

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 that!, encountered in the drilling of a well."