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State of West Virginia DEPARTMENT OF ENERGY

JAN 2 9 93			Oil and C			
WV Division of Environmental Protection	Well Opera	ator's Re	port of W	Well Work		
Farm name: PPG I		NC .	Operator	Well No.:	BRINE WEL	L) 19
LOCATION: Eleva	tion: 642.5'	Quadr	angle: No	ew Martinsv <u>il</u> l	.e	
Latit	ict: FRANKL: ude: 3850 tude 3000	Feet Sout	h of 39	ounty: MARSI Deg. 45 Min Deg. 50 Min	. 00 Sec.	
	191 NSVILLE, WV	26155-01	91 &	Used in Drilling	1	Fill
Agent: KEN S. WA	LBORN		 Size	 	 	
Inspector: Randal Permit Issued: 9/Well work Commence	22/92	. !	30"	72.60'	66.10'	_0 <u>_</u>
Well work Complet Verbal Plugging	:ed: $12-15-92$		20"	 131.05'	 131.05'	234
Rotary x Cable Total Depth (feet Fresh water depth	Rig (2) 6776		!	2000.25'	2000.25	1852
Salt water depths	s (ft) <u>6682</u>		9 5/8"	6204.28'	6204.28'	2029
Is coal being min Coal Depths (ft)			 ⁷ "	 1300.45'	1300.45'	
OPEN FLOW DATA						
Gas: Initia Final o	open flow	MCF	/d F	Pay zone nitial open inal open f	flow low	Bbl/ Bbl/
Time o Static rock	f open flow b Pressure	etween in psi	nitial an g (surfac	d final tes e pressure)	after	Hour Hour
Gas: Initia	cing formati	MCF	/d Oil: I	_ Pay zone nitial open inal open f	flow)Bbl/ Bbl/
Time o	open flow f open flow b Pressure	etween i	nitial an	d final tes	ts	Houi
		-				ED EOD 3 MI

NOTE: ON BACK OF THIS FORM PUT THE FOLLOWING: 1). DETAILS OF PERFORATE INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2). THE WELLOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF ALL "ORMATIONS INCLUDING COAL ENCOUNTERED BY THE WELLBORE.

For:	PPG :	INDUSTRIES,	INC.			00
	By:	K. 5. W	llon	_		14. 14. 14. 1
	Date	1/26/	93		 	

Note: The Well Log is presently being prepared and will be submitted when completed, prior to February 15th.

P.P.G. #19 BRINE WELL WELL LOG

All depths measured from a K.B. elevation of 662.5'

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FORMATION	TOP	BOTTOM	REMARKS
Substructure	0	20	
Gravel & Fill	20	22	
Sandy Clay	22	39	
Sand & Gravel	39	89	Fresh Water @ 39'
Yellow Clay	89	90	TESSI NOSE 6 33
Limestone & Shale	90	110	Solid Rock @ 90'
Limescone a share	50	110	
Pennsylvanian			
Monongahela	110	280	
Conemaugh	280	755	
Allegheny	755	1055	
Pottsville	1055	1147	
Shale	1147	1188	
Share	111,		
Mississippian			COALS
Maxton	1188	1227	276' - 278'
Mauch Chunk	1227	1310	876' - 880'
Greenbrier	1310	1392	946' - 948'
Big Injun	1392	1520	1026' - 1028'
Pocono	1520	1617	1048' - 1050'
Shale	1617	1774	1122' - 1124'
Weir	1774	1809	
Sunbury?	1809	1975	
Berea	1975	1984	
Dered	13.3		
Devonian			
Conewango	1984	2063	
Catskill	2063	2934	
Riley	2934	2975	
Harrell Shale	2975	4881	
Hamilton	4881	5216	
Marcellus?	5216	5738	
Onondaga	5738	5764	•
Needmore?	5764	⇒5822	
Oriskany		ç62 9 9	
Helderberg	6299	6432	
Merderberg			
Silurian			
Keyser	6432	6490	
Salina	6490	6896	
Syracuse Salt	6698	6804	
Carbonate Rock	6804	6806	
Salt	6806	5812	
Carbonate Rock	6812	6832	
Salt	6832	6862	8
Carbonate Rock	6862	6878	
Salt	6878	6880	•
Carbonate Rock	6880	6896	

6896

T.D.

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STATE OF WEST VIRGINIA CYPNES 922 94 DEPARTMENT OF ENERGY, DIVISION OF OIL AND GAS WELL WORK DEPART ADDITION

		DEPARTM			APPLICATION			
L)	Well Oper	ator:	PPG Indu	うちょ。 stries、Inc.	39600	(3)	508	
2)							evation: <u>642.</u> 5	
4)	Well type	e: (a) O	il_/	or Gas	_/ or	Brine Produc	tion <u>X</u> /	
		(b) I	f Gas:		/ Undergr /	ound Storag Shallo	e/ w/	
5)	Proposed	Target F	ormation	(s): <u>Sali</u>	na 5 19		RECE	
5)	Proposed Total Depth: 6870 feet UIC Section							
7)	Approxima	ate fresh	water s	trata dept	hs: 70	ft.	SEPT 0 8 92	
8)	Approxima	ate salt	water de	pths:l	.050 to 1600	ft.	WV Division of	
9)	Approxima	ate coal	seam dep	ths: 25	4-259	<u>_</u>	Wildinestral Front V	
10)	Does land	d contair	coal se	ams tribut	ary to acti	ve mine? Y	es/ No_ <u>x</u> /	
11)	Proposed	Well Wor	:k:					
12)								
•			CASIN	G AND TUBI	NG PROGRAM			
TYPE	<u> </u>	sı	PECIFICAT	IONS	FOOTAGE IN	ITERVALS	CEMENT	
		Size	Grade	Weight per ft.	For drilling	Left in well	Fill-up (cu. ft.)	
Cond	luctor	20"	н-40	94	130'	130'	100	
	sh Water							
Coa]								
	A) d. ermediate	13 3/8"	K-55	54.5	2000'	2000'	1583	
	luction	9 5/8"	K-55	40	6420'	6420'	1690	
Tub	ing							
Line	ers	7 ^{tt}	K-55	26	1300	1300		
PACI		d es oths set	Baker Ha 7" 5920'	nger Packer				
	4. 11120	ច	or Diviso	on of Oil	and Gas Use	Only		

Fee(s) paid: | Well Work Permit | Reclamation Fund | V WPCP

_ I_ Agent

| | Plat | | | WW-9 | | | WW-2B | | | Bond Blank | Type

	1 of			1)	Date: August 25, 1992 Operator's well number
(09/8	•				No. 19 Brine Well (Production)
File	Copy			3)	API Well No: 47 - 051 - 0739-B
		~			State - County - Permit
		DEPARTMENT			VIRGINIA VISION OF OIL AND GAS RECEIV Office of Oil & Gas UIC Section
		NOTICE AND	APPLICAT	ON F	OR A WELL WORK PERMIT SEPT 0 8 92
4)	Surface O	wner(s) to	be served:	:	5) (a) Coal Operator: WV Division of Environmental Protection
	(a) Name	PPG Indust	ries. Inc.		Name
	Address _	P. O. Box	191		Address
		New Marti	sville. WV	26155	
	(b) Name	· · · · · · · · · · · · · · · · · · ·			(b) Coal Owner(s) with Declaration
_					Name PPG Industries, Inc.
-	/al Name	· · · · · · · · · · · · · · · · · · ·			Address P. O. Box 191
	(C) Name				New Martinsville, WV 26155
	Address _				NameAddress
<i>-</i> \					
6)	Inspector				(c) Coal Lessee with Declaration
	Address _				Name
	Telephone	(304)-			Address
					
cont:	racts by w Included	is the leas hich I hold is the info	e or leason the contraction representation represen	es or t to equir	other continuing contract or extract oil and gas <u>OR</u> ed by Chapter 22B, Article 1, aia (see page 2)
acco	ve served mpanying d Pers Cert	copies of t locuments pa sonal Servic ified Mail	this notice ages 1 three: e (Affida (Postmark	e and ough vit a ed po	Chapter 22B of the West Virginia Code application, a location plat, and on the above named parties, by: attached) estal receipt attached) estal receipt attached)
fami atta resp	he terms a I certify liar with chments, a onsible fo	and condition under pendition the information that base	ons of any alty of laction submoded on my the info	perm w tha itted inqui	22B and 38 CSR 11-18, and I agree it issued under this application. It I have personally examined and am I on this application form and all ry of those individuals immediately on, I believe that the information
	'I am awar	e that ther	e are sig	nific	ant penalties for submitting false
info	rmation, i	ncluding th			of fine and imprisonment.
······	OFFIC	IAL SEAL	Well Oper		PPG Industries, Inc.
STATE OF THE PARTY	NOTAR	Y PUBLIC	By:		(control Control
4	_ 1C1	VEST VIRGINIA SUIDONNON	Its:		anager, Environmental Control . O. Box 191
		Box 6 Doolin	Address _		lew Martinsville, WV 26155
	New Martinsville,	West Virginia 26155 {	Telephone		304) 455-2200
Subs		xpires Mar. 23, 2002 S Sworn befo	•		· · · · · · · · · · · · · · · · · · ·
			alice ?	K as	Annon Notary Public
My c	ommission	expires	mar. 23	200	2