



CONDUCTER PIPE - 30" A-53, 118.7 LB/PT, 68' SET, NOT CEMENTED, WELDED FRESH WATER PIPE - 20" H-40, 94 LB/FT, 130' SET, CEMENTED TO SURFACE, 8 RND THAD. & COUPLED, WELDED

INTERMEDIATE

- 13 %" K-55, 54.5 LB/PT, 1933' SET, CEMENTED TO SURFACE, 8 AND THRO & SHORT COUPLED, RANGE 3, ERW

PRODUCTION

- 98" K-55, 40 LB/PT, 6200' SET, CEMENTED TO 1000', 8 RNO THRD. & LONG COUPLED, RANGE 3, SEAMLESS

LINER

PE

- 7" K-55, 26 LB/FT, 1424' SET, NOT CEMENTED, HYDRIL 521 THAO, RANGE 3, SEAMLES

BROWN TYPE SLP-R LINER PACKER, 7" 26 LB/FT X 9 1/8" 36-43.5 PACKER LB/FT HYDRIL 521 PIN DOWN. 8,500" TOOL 0.0. 6.250" TOOL 1.0, 6.625" D. D. LEFT HAND RELEASE, 50,000 LB RELEASE,

ERC HOUSTRIES CIW, AW, 13 %" X 9 5/8" W/HANGER PROT. WELLHEAD FLG. 10" 900 LB FLA. GATE VALVE, CAST STEEL, SOLID WEDGE,

VALVE 13% CHROME TRIM, HARD FALED SEATS

> T.D. 1255.9 N. OF SURFACE 557.9' W. OF SURFACE DISTANCE = 1374.2' BEARING = N 23°57' W

T. D. STA. 7945' DEPTH 6715

051 725

EXISTING CAVITY

)LE

AKTHROUGH TO EXIST. CAVITY

PPG INDUSTRIES, INC.

CHEMICAL DIVISION NEW MARTINSVILLE . WEST VIRGINIA

70- BRINE WELLS DEPT NO_ #38 BRINE WEL CONFIGURATION - AS

DRAWN R-CORNELIUS CHECKED SCALE NOME

JOB *P-162-F*SUB DATE 10-24-91

APPROVED.

DWG

08-Apr-91 API # 47- 51-00725 P

State of West Virginia DEPARTMENT OF ENERGY

F.eviewed TM6

Division of Oil and Gas **JIC** Section Well Operator's Report of Well Work Recorded Farm name: PPG INDUSTRIES, INC Operator Well No.: (BRINE WELL) 38 Elevation: 639.00 Quadrangle: POWHATAN POINT LOCATION: District: FRANKLIN County: MARSHALL Latitude: 13600 Feet South of 39 Deg. 47Min. 30 Sec. Longitude 8050 Feet West of 80 Deg. 50 Min. 0 Sec. NEW MARTINSVILLE, WV 26155-0191| & | Fill | Tubing | Drilling | in Well|Cu. Ft. Agent: KEN S. WALBORN Size Inspector: DONALD ELLIS Permit Issued: 04/08/91 Well work Commenced: 04/12/91 Well work Completed: 06/28/91 Verbal Plugging Permission granted on: Rotary X Cable Rig
Total Depth (feet) 6713 ft Fresh water depths (ft) 50 ft. Salt water depths (ft) 6200' Is coal being mined in area (Y/N)? N Coal Depths (ft): 104' to 108' OPEN FLOW DATA N.A. This well is for solution mining of salt Producing formation __Pay zone depth (ft) Gas: Initial open flow MCF/d Oil: Initial open flow Bbl/
Final open flow MCF/d Final open flow Bbl/ Time of open flow between initial and final tests Hour Static rock Pressure psig (surface pressure) after Hour Second producing formation Pay zone depth (ft) Gas: Initial open flow MCF/d Oil: Initial open flow Bbl/
Final open flow MCF/d Final open flow Bbl/
Time of open flow between initial and final tests Hour Static rock Pressure ____psig (surface pressure) after ____ Hour

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

For: PPG INDUSTRIES, INC.

Date:

P.P.G. #38 BRINE WELL WELL LOG

All depths measured from a K.B. elevation of 659.0'

<u>FORMATION</u>	TOP	BOTTOM	REMARKS	
Substructure	0	20		
Fill and Cinders	20	25		
Clay, Sand & Gravel	25	61		
Sand & Gravel	61	91	Fresh water @ 70'	
Sand & Shale	91	120		
bana w bnaze	· · ·			
Pennsylvanian				
Monongahela	120	· 240	Coal @ 124' to 128'	
Conemaugh	240	702		
Allegheny	702	1016		
Pottsville	1016	1112		
Shale	1112	1168		
Wiiii				
<u>Mississippian</u>	1168	1216		
_ Maxton		1216		
Mauch Chunk	1216			
Greenbrier	1296	1354		
Big Injun	1354	1504 1578		
Pocono	1504	1726		
Shale	1578	1744		
Weir	1726	1924		
Sunbury	1744 1924	1928		
Berea	1924	1920		
<u>Devonian</u>				
Conewango	1928	2032		
Catskill	2032	2896		
Riley	2896	2942	•	
Harrell Shale	2942	4814		
Hamilton	4814	5142		
Marcellus	5142	5642		
Onondaga	5642	5666		
Needmore	5666	5726		
Oriskany	5726	6212		
Helderberg	6212	63 28		
<u>Silurian</u>		2222		
Keyser	6328	6382		
Salina	6382	6770		
Syracuse Salt	6600	6692	Small rock stringers	6606 to 6626
Carbonate Rock	6692	6694		
Salt	6694	6700		
Carbonate Rock	6700	6706		
Salt	6706	6728		•
Carbonate Rock	6728	6742		
Salt	6742	6749		
Carbonate Rock	6749	6770		
T.D.	6770			

State of West Virginia Department of Energy Division of Oil and Gas Discharge Monitoring Report Oil and Gas General Permit

Company Name: PPG INDUSTRIES, INC. API 47- 51-00725 B County: MARSHALL District: FRANKL Farm Name: PPG INDUSTRIES, INC Well No: (BRINE WELL) 38	IN
Discharge Dates/s From:(MMDDYY) TO:(MMDDYY) Discharge Times: From TO	
Disposal Option Utilized: UIC (2): X Permit No. UIC3S05101AP (Liq Centralized Facility (5): Permit No. Reuse (4): Alternate Permit Number: Offsite Disposal(3): Site Location: Land Application(1): X (Include a topographical map of the Other menthod(6): (Include an exlaination)	Area.)
Follow Instructions below to determine your treatment category.	SEE NOTE 1
Optional Pretreatment test:Cl- mg/l DO	Mg/l
1. Do you have permission to use expedited treatment fr Director or his representative? (Y/N) If who?, and place a four (4) on line not go to line 2	
2. Was Frac Fluid or flowback put into the pit? $(Y/N)_{\underline{\hspace{1cm}}}$ go to line 5 if not go to line 3	If yes
<pre>3. Do you have a chloride value pretreatment (see a (Y/N) If yes go to line 4 if not go to line 5</pre>	bove)?
4. Is that chloride level less then 5000 mg/l? (Y/N) then enter a one (1) on line 7	If yes
5 Do you have a pretreatment value for DO? (See above) (If yes then go to line 6 if not enter a three (3) in line 7	Y/N)
6 Is that DO greater then 2.5 mg/l?(Y/N) If yes then ente (2) on line 7 If not enter a three (3) on line 7.	r a two
7 is the category of your pit. Use the Appropriate se	ction.
Name of Principle Exec. Officer Mr. V. A. Sarni Title of Officer Chairman of the Board Date Completed: 10/24/91	
I certify under penalty of law that I have personally example and am familiar with the information submitted on this document all the attachments and that, based on my inquiry of those indivisions and responsible for obtaining the information I believe the information is true, accurate, and complete. I am award there are significant penalties for submitting false information	nt and iduals e that e that ation,
including the possibility of fine and imprison	nment.
Signature of a Principle Exec. Officer or Authorized	agent

NOTES FOR FORM WR-34 FOR #38 BRINE WELL

Note 1.

All liquid wastes from this well were reinjected into the brine cavity through #33 (API 47-051-0535) and #36 (API 47-051-0674) brine wells which are approved for injection under UIC permit UIC3SO5101AP. The liquid wastes were used as injection fluid for solution mining of salt.

All solid wastes were solidified in the pits by PKC Environmental of Westover, West Virginia, with the pit liners intact, and were then covered with earth.

Note 2.

Sampling was not performed on the pit fluid because all of the pit fluid was reinjected into the cavity for solution mining of salt.

Category 1 Sampling Results API NO 47- 51-00725

SEE NOTE 2.

Parameter	Predischarge Limit Reported	Discharge Limits Reported Units
pH Settling Time Fe D.O. Settleable Sol. Cl Oil TOC Oil and Grease Al*** TSS Mn Volume Flow Disposal Area	6-10 5 6 2.5 .5 5000 Trace	6-10 N/A N/A Days mg/l 2.5 mg/l mg/l 5000 Trace Monitor Acres

*** Al is only reported if the pH is above 9.0

Category 2 Sampling Results API NO 47- 51-00725

		Predischarge		Discharge	•
Parameter	Limit	Reported	Limits	Reported	Units
рН	6-10		6-10		s.u
Settling Time	10		N/A	N/A	Days
Fe	6		6		mg/l
D.O.	2.5		2.5		mg/l
Settleable Sol.	• 5		. 5		mg/l
Cl*	12,500		1250 0		mg/l
Oil	Trace		Trace		Obs.
TOC**			Monitor		mg/l
Oil and Grea se			Monitor		mg/l
A1***			Monitor		mg/l
TSS			Monitor		mg/l
Mn	Monitor	•	Monitor		mg/l
Volume			Monitor		Gals.
Flow			Monitor		Gals
Disposal Area		•	Monitor		Acres

^{*} Can Be 25,000 with inspectors approval,

(Inspector):

** Include a description of your aeration technique.

*** Al is only reported if the pH is above 9.0

Category 3 Sampling Results API NO 47- 51-00725

SEE NOTE 2.

Parameter	Predischarge Limit Reported	Discharge Limits Reported	Units
pH Settling Time Fe D.O. Settleable Sol. Cl* Oil TOC** Al*** TSS Mn Volume Flow Grease and Oil Disposal Area	6-10 20 6 2.5 .5 12,500 Trace Monitor	6-10 N/A N/A 6 2.5 .5 12,500 Trace Monitor	S.U Days mg/l mg/l mg/l Obs. mg/l mg/l mg/l Gals. Gals mg/l Acres

*	Can	Ве	25,000	with	inspectors	approval	L ,
			77.		1		

(Inspector)

** Include a description of your aeration technique.

*** Al is only reported if the pH is above 9.0

Category 4 Sampling Results API NO 47- 51-00725

Parameter	Limit	Predischarge Reported	Limits	Discharge	
ralametel	D1M1C	Reported	DIMICS	Reported	Units
рН	6-10		6-10		s.u
Settling Time	1		N/A	N/A	Days
Fe	Monitor		Monitor		mg/l
D.O.	Monitor		Monitor		mg/l
Settleable Sol.	Monitor		Monitor		mg/l
C1*	12,500	•	12,500		mg/l
Oil	Trace		Trace		Obs.
TOC			Monitor		mg/l
TSS			Monitor		mg/l
Oil and Grease			Monitor		mg/l
Mn	Monitor		Monitor		mg/l
Volume			Monitor		Gals.
Flow			Monitor		Gals
Activated Carbon	.175		N/A	N/A	lb./bl
Date Site Reclaimed	N/A	N/A		10 Days	from Dis.
Disposal Area			Monitor		Acres

* Can Be 25,000 with inspectors approval, (Inspector)

FORM WW-2B

								Page	ot
	ST	ATE OF	WES'	T VIRGI	NIA				
DEPARTMENT	OF	ENER	JY, D	IVISION	OF	OIL	AND	GAS	0410g 19

	WELL WORK PERMIT APPLICATION
l)	Well Operator: PPG Industries, Inc. 39600 (3) 557
2)	Operator's Well Number: 38 Brine Well (Production) 3) Elevation: 439
4)	Well type: (a) Oil_/ or Gas_/ or Brine Production X / (6)
	(b) If Gas: Production/ Underground Storage/ Deep/ Shallow/
5)	Proposed Target Formation(s): Salina 519 Divis Ty
5)	Proposed Total Depth: 6720 feet MAR 2 5 91
7)	Approximate fresh water strata depths: 70 Feet 110 Section
3)	Approximate salt water depths: 1050 feet to 1600 feet
9)	Approximate coal seam depths: 115'-117', 214'-218', 905'-909', 969'-971'
LO)	Does land contain coal seams tributary to active mine? Yes/ No_X/
L1)	Proposed Well Work:
L2)	

CASING AND TUBING PROGRAM

TYPE	SPECIFICATIONS FOOTAGE INTERVALS			ECIFICATIONS FOOTAGE INTERVALS			ECIFICATIONS FOOTAGE INTERVALS		
	Size	Grade	Weight per ft.	For drilling	Left in well	Fill-up (cu. ft.)			
Conductor	20"	H-40	94	120'	120'	92			
Fresh Water									
Coal				į.					
<u>Intermediate</u>	13 3/8"	K-55	54.5	2000'	2000'	1583			
Production	9 5/8"	K-55	40	6270'	6270'	1651			
Tubing				···		φ.			
Liners	7"	к - 55	26	1200'	1200'				

Liners		7"	K-55	26	5 -	1200'	1200'			_
PACKERS :	Kind_	Baker	Hanger	Packer	 		### Table 1			-
107061	Sizes_ Depths	set_	5770							
0.1		Fo	r Divi	son of	Oil and	Gas Us	se Only			-
Fee (s) paid	ı: ₁ 7	Well	Work P	ermit	I Re	eclamation	Fund	IZI WPC	P ***
Plat			11 W	/	ZI Bon				IV Age	•

Operator's well number 138 Brine Well (Groduction) 151	Page	1 of	1)	Patrick February 22 100	, 11
File Copy 3) API Well No: 47 - 051 - 27.25 State - County - Permit STATE OF WEST VIRGINIA DEPARTMENT OF ENERGY, DIVISION OF OIL AND GAS NOTICE AND APPLICATION FOR A WELL WORK PERMIT (a) Name				Once : residuary 22, 19	/ I
STATE OF WEST VIRGINIA DEPARTMENT OF ENERGY, DIVISION OF OIL AND GAS NOTICE AND APPLICATION POR A WELL WORK PERMIT (a) Name PRG Industries. Inc. Name Address New Martinsville. WV 26155 (b) Name Address (c) Coal Lessee with Declaration Name Address (c) To the Person(S) NameD Above Take Notice That: Included is the lease or leases or other continuing contract or contracts by which I hold the right to extract oil and gas OR Included is the information required by Chapter 22B, Article 1, Section 8(d) of the Code of West Virginia (see page 2) I certify that as required under Chapter 22B of the West Virginia Code I have served copies of this notice and application, a location plat, and accompanying documents pages 1 through Certified Mail (Postmarked postal receipt attached) Personal Service (Affidavit attached) Personal Service (Affidavit attached) I have read and understand Chapter 22B and 38 CSR 11-18, and I agree to the terms and conditions of any permit issued under this application. I certify under penalty of law that I have personally examined and am attachments, and that based on my inquiry of those individuals immediately responsible for obtaining the information; I fam aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. Well Operstor Personal Service (Affidavite) New Martinaville, WV 26155 Telephone (304) 455-2200 Subscribed and sworn before me this Affidav of Affalach, 1997 Notary Dublice Nota			2)		
STATE OF WEST VIRGINIA DEPARTMENT OF ENERGY, DIVISION OF OIL AND GAS NOTICE AND APPLICATION FOR A WELL WORK PERMIT (a) Name PRG Industries. Inc. Address P. O. Box 191 (b) Name Address Name Address (c) Name Address Name PRG Industries. Inc. Address P. O. Box 191 (c) Name Address Name Address Name Address P. O. Rox 191 (c) Name Address Name Address Name Address P. O. Rox 191 (c) Name Address Name Name Address Name Address Name Address Name Address Name Name Name Name Name Name Name Name			31	ADI Woll No. 47	on)
DEPARTMENT OF ENERGY, DIVISION OF OIL AND GAS NOTICE AND APPLICATION FOR A WELL WORK PERMIT WR 2 5 9 4) Surface Owner(s) to be served:	- .			State - Count	y - Permit
DEPARTMENT OF ENERGY, DIVISION OF OIL AND GAS NOTICE AND APPLICATION FOR A WELL WORK PERMIT WR 2 5 9 4) Surface Owner(s) to be served:			COLOR GO GOLD	n urnatur.	PE^
Surface Owner(s) to be served:					Divis: 3y
4) Surface Owner(s) to be served: (a) Name PPG Industries, Inc. Address P. O. Box 191 New Martinaville, WV 26155 (b) Name Address (c) Name Address Name Address (c) Coal Lessee with Declaration Name Address Name Address (c) Coal Lessee with Declaration Name Address Name Address Telephone (304)- TO THE PERSON(S) NAMED ABOVE TAKE NOTICE THAT: Included is the lease or leases or other continuing contract or contracts by which I hold the right to extract oil and gas OR Included is the information required by Chapter 22B, Article 1, Section 8(d) of the Code of West Virginia (see page 2) I certify that as required under Chapter 22B of the West Virginia Code I have served copies of this notice and application, a location plat, and accompanying documents pages 1 through on the above named parties, by: Personal Service (Affidavit attached) Certified Mail (Postmarked postal receipt attached) Publication (Notice of Publication attached) I have read and understand Chapter 22B and 38 CSR 11-18, and I agree to the terms and conditions of any permit issued under this application. I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form and all attachments, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. Well Operstor PPG Industries. Inc. By: Manager. Environmental Control Address P. O. Box 191 Notany Bublic Mice PPC Industries inc. Notany Bublic			NOTICE AND APPLICATION E	FOR A WELL WORK PERMIT	_
(a) Name Address P. O. Box 191 Name Address P. O. Box 191 Name Address Name PPG Industries, Inc. (b) Name Address Name PPG Industries, Inc. Address Name PPG Industries, Inc. Address Name PPG Industries, Inc. Address P. O. Box 191 Name Address Name Name Name Name Name Name Name Name	4.1	G.,			
Address P. O. Box 191 New Martinsville, WV 26155 (b) Name Address Martinsville, WV 26155 (c) Name Address Name PFG Industries, Inc. Address Name Name Name Name Address Name Name Name Name Address Name Address Name Name Name Name Address Name Address Name Name Name Name Address Name Address Name Name Name Name Address Name Name Name Name Name Name Addres	4)	Surface (Jwher(s) to be served:		
New Martinsville, MV 26155		Address	PPG Industries, Inc.	Name	
(b) Name Address Name PPG Industries, Inc. Address Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name		wartess -	P. U. BOX 191	Address	
Name Address Name PRG Industries, Inc. Address P. O. Box. 191		(h) Name	New Martinsville, WV 26155	(1) 0 - 1 0 1	
(c) Name Address Address Address Address Address Address Address Name Address Name Address		Address		(D) Coal Owner(s) with)	Declaration
Address Name Address Name Address	-	Address -		Name PPG Industries, Inc	
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