

west virginia department of environmental protection

Office of Oil and Gas 601 57th Street SE Charleston, WV 25304 (304) 926-0450 (304) 926-0452 fax Earl Ray Tomblin, Governor Randy C. Huffman, Cabinet Secretary www.dep.wv.gov

March 20, 2015

WELL WORK PLUGGING PERMIT

Plugging

This permit, API Well Number: 47-10700766, issued to SABIC INNOVATIVE PLASTICS US LLC, is evidence of permission granted to perform the specified well work at the location described on the attached pages and located on the attached plat, subject to the provisions of Chapter 22 of the West Virginia Code of 1931, as amended, and all rules and regulations promulgated thereunder, and to all conditions and provisions outlined in the pages attached hereto. Notification shall be given by the operator to the Oil and Gas Inspector at least 24 hours prior to the construction of roads, locations, and/or pits for any permitted work. In addition, the well operator shall notify the same inspector 24 hours before any actual well work is commenced and prior to running and cementing casing. Spills or emergency discharges must be promptly reported by the operator to 1-800-642-3074 and to the Oil and Gas inspector.

Upon completion of the plugging well work, the above named operator will reclaim the site according to the provisions of WV Code 22-6-30. The above named operator will also file, as required in WV Code 22-6-23, an affidavit on form WR-38 by two experienced persons in the operator's employment and the Oil and Gas inspector that the work authorized under this permit was performed and a description given. Failure to abide by all statutory and regulatory provisions governing all duties and operations here under may result in suspensions or revocation of this permit and in addition may result in civil and/or criminal penalities being imposed upon the operator.

This permit will expire in two (2) years from date of issue. If there are any questions,

please free to contact me at (304) 926-0499 ext. 1654.

Chief

Operator's Well No: 3

Farm Name: BORG WARNER CORP.

API Well Number: 47-10700766

Permit Type: PluggingDate Issued: 03/20/2015

PERMIT CONDITIONS

West Virginia Code §22-6-11 allows the Office of Oil and Gas to place specific conditions upon this permit. Permit conditions have the same effect as law. Failure to adhere to the specified permit conditions may result in enforcement action.

CONDITIONS

- 1. All pits must be lined with a minimum of 20 mil thickness synthetic liner.
- 2. In the event of an accident or explosion causing loss of life or serious personal injury in or about the well or while working on the well, the well operator or its contractor shall give notice, stating the particulars of the accident or explosion, to the oil and gas inspector and the Chief within twenty-four (24) hours.
- 3. Well work activities shall not constitute a hazard to the safety of persons.
- 4. This well is under a consent order and must be plugged under the terms of that agreement.

WW-4B Rev. 2/01

1) Date January 21	, 20 15
2)Operator's	
Well No. 3	
3) API Well No.	47-107 - 0768

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

	OFFICE OF	OIL AND GAS
	APPLICATION FOR A PERM	AIT TO PLUG AND ABANDON
4)	Well Type: Oil/ Gas X / Liquid	liniection / Wasta diament
	(If "Gas, Production X or Und	derground storage) Deep X / Shallow
5}	Location: Elevation 603.25	Watershed Ohio River
	District Lubeck	County Wood Quadrangle Little Hocking 7.5
6)	Well Operator SABIC Innovative Plastics	7) Designated Agent
	Address 9226 Dupont Road	Address
	Washington WV 26181	
8:)	Oil and Gas Inspector to be notified Name James Stevens Address 105 Kentuck Road Kenna WV 25248	9) Plugging Contractor Name Meadows Well Service, LLC. Address 45 Meadows Drive Ravenswood, WV 26164
	James.S.Stevens@wv.gov	meadowswellservice1@frontier.com
,	Work Order: The work order for the manne Set 100' Class A cement plug over Bere Tag plug and spot cement to achieve 50' abo	ea perforations and try to squeeze away;
	Set 100' Class A cement plug over Bere Tag plug and spot cement to achieve 50' about set mechanical plug above Berea performance on Top of the Mechanical To 800'. Set 200' Class A Cement to 300' And Set A 300 RECEIVED A PROPER	pea perforations and try to squeeze away; eve perforations; Run in with wire line and prations; SET A 200' CLASS A CEMENT AL PLUG. GEL! 85/8" FROM TOPOF CEMENT MENT PLUG FROM 800' - 600! GEL OF CLASS A PLUG TO SURFACE. ERECT
	Set 100' Class A cement plug over Bere Tag plug and spot cement to achieve 50' about set mechanical plug above Berea performance on Top of the Mechanical To 800'. Set 200' Class A Cement To 800'. Set 200' And Set A 300' And 300'	pea perforations and try to squeeze away; eve perforations; Run in with wire line and prations; SET A 200' CLASS A CEMENT AL PLUG. GEL! 85/8" FROM TOPOF CEMENT MENT PLUG FROM 800' - 600! GEL OF CLASS A PLUG TO SURFACE. ERECT
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DIVISION OF OIL & GAS DEPARTMENT OF ENERGY

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State of West Wirginia Bepartment of Mines Gil und Gas Bivision

Date	January 8.	1988
Operat	or's	
Well N	o. <u>3</u>	
Farm	Borg-Warn	er
API No	• <u>47 - 107</u>	- 0766-F

WELL OPERATOR'S REPORT

OF DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

	WEIL TYPE: Oil / Gas X / Liquid Injection / Waste Disposal / (If "Gas," Production / Underground Storage / Deep / Shallow / LOCATION: Elevation: 603.25 Watershed Ohio River
•	District: Lubeck County Wood Quadrangle Little Hocking
	and the following the first warring
;	COMPANY Borg-Warner Chemicals, Inc.
·	ADDRESS 6. 0. Box 1868 Parkershurg, West Virginia 26182 Casing Used in Left fill up
	DESIGNATED AGENT Arthur I. Sandy Tubing Drilling in Well Cu. ft
	ADDRESS P. O. Box 1868, Parkersburg, WV 26102 Size
	SURFACE OWNER Borg-Warner Chemicals, Inc. 20-16 Cord.
	ADDRESS P. U. BOX 1008, Parkersburg, WY 20102
	MINERAL RIGHTS OWNER Same as above 9 5/8
•	ADDRESS Circulat
	OIL AND GAS INSPECTOR FOR THIS WORK Glen P Noth: Perm tridge plus set at
	Robinson ADDRESS Mineral Wells, WV 26150 5 1/2 4 061 2 146 Cement
	PERMIT INSUED DECEMBER 3, 1900
	DRILLING COMMENCED 19/9/96
	DRILLING COMPLETED 12/23/86 . 2 4 068' 1 804 5'
	IF APPLICABLE: PLUGGING OF DRY HOLE ON
	REWORKING. VERBAL PERMISSION OBTAINED used .
	CN
	GEOLOGICAL TARGET FORMATION Berea Sandstone Depth1809-1812 fee
	Depth of completed well 1,872 feet Rotary / Cable Tools Service r
	Water strata depth: Fresh 15-90 feet; Salt feet
	Coal seam depths: Is coal being mined in the area?
	OPEN FLOW DATA
	Producing formation Berea Sandstone Pay zone depth 1809-1812 fee
	Gas: Initial open flow S1. Show Mcf/d Oil: Initial open flow Bbl/
, (ED	Final oran florage male Online Maria
RECEIVED Oil and G	Time of open flow between initial and final tests 24 hours
RECEIVED Office of Oil and G	Static rock pressurepsig(surface measurement) afterhours shut i
Office a	(If applicable due to multiple completion)
Office 2 1 8 5012	Second producing formation Pay zone depth fee
WV Departme	nt O Cas: Initial open flow Mcf/d Oil: Initial open flow Bbl/
WV Departal Pr	OteClio. Final open flow Mcf/d Oil: Final open flow Bbl/
WV Departme Environmental Pr	Time of open flow between initial and final tests hours
Elia.	Static rock pressure psig(surface measurement) after hours shut i

FORM IV-35 (REVERSE)

DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. A permanent bridge plug was set 4,004' in the 5-1/2" casing with one bag calseal on top of plug. Cut 5-1/2" casing at 1,915' with young wireline casing cutter. Pulled 1,915' of 5-1/2" casing from hole. Set permanent bridge plug at 1,875' in 8-5/8" casing with two bags calseal on top of plug. Perforate 8-5/8" casing at 1,810'-1,812' with 16 holes. Nowsco foam fraced Berea. Formation broke down at 2,000 psig and treated at 1,650 psig. Treatment consisted of 75% quality foam,

.

30,000 lbs. 20/40 sand, and a total of 456,720 scf nitrogen. Total water used 220-bbl. Total bbls. of foam treatment was 862 bbls. ISIP 1500 psig 5 min. sip 1430 psig.

Well averaged 23 MCF/day through first month of production. Surface shut-in pressure 600 psig.

WELL LOG

FORMATION COLOR HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all freshand salt water, coal, oil and ga:
Sandstone and Gravel Sand, Shale Sand Shale 'Sand Sand, Shale Sand	0 100 240 300 390 500 810 870 900 995 1020 1140 1245 1300 1430 1815 1818 4003 4092 4100	100 240 300 390 500 810 870 900 995 1020 1100 1140 1245 1300 1430 1815 1818 4003 4092 4100 4116	JAN 12 1988 DIVISION OF OIL & GAS DEPARTMENT OF ENERGY Salt water S1 Show Gas Total Depth
t			

RECEIVED
Office of Oil and Gas

(Attach separate sheets as necessary)

FEB 18 2015

WV Department of Environmental Protection

bury-warrier chemical	3, 1110.	
Well Operator		
By: Centher OT.	Sandy	
Arthur I. Sandy		

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."



STATE OF WEST VIRGINIA DEPARTMENT OF MINES

NOV 1

"- GAS . Ö. .

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Oil and Gas Division

WELL RECORD

Rotary___ Cable_ Quadrangle Little Hocking 7-1/2 Recycling Water Flood___ Storage Permit No. WOO-766 REV Disposal

47-107				(Kind)
Company Borg-Warner Corp. Address P.O.Box 1868, Parkersburg, W.Va. 2 Farm Borg-Warner Corp. Acres 190.79	2610 Casing and Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft. (Sks.)
Location (waters) Ohio River Well No. Three Elev. 619	Size 20-16	,		
District Lubeck County Wood The surface of tract is owned in fee by Borg-Warner Corp.	Cond. 13-10" 11-3/4" 9 5/8	110		Circulated to surface
Address As above	8 5/8	1929	1929	Circulated to surface
Mineral rights are owned by Borg-Warner Corp. Address As above	5 1/2	4061	4061	Est. cem. top 3900
Drilling Commenced 9-13-77 Drilling Completed 9-22-77	4 1/2			
Initial open flowS1 Sh gas cu. ft. bbls. Final production500,000 cu. ft. per day xx bbls.	2 Liners Used	4068	4068	
Well open 2 hrs. before test 1400 RP.			-d	
Well treatment details: Halliburton 10-3-77: 1000 bbl wate	Attach copy of c r - 28.000# 20,			

Inches None Feet. Coal was encountered at. Feet 1300-1430 Feet __15'-90' Salt Water Fresh water. 4092 Oriskany Depth . Producing Sand

500 gal HcL Acid

Formation Color Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water * Remarks
Sandstone and Gravel	0	100	
Sand, Shale	100	240	
Sand	240	300	
Shale	300	390	
Sand	390	500	
Sand-Shale	500	810	
Sand	810	870	סבטבווערם
Shale	870	900	RECEIVED .
Sand	900	995	Office of Oil and Gas
Shale	995	1020	Omoo or on and see
Sand	1020	1100	CCD 1 0 2045
Shale	1100	1140	FEB 1 8 2015
Sand	1140	1245	
Shale	1245	1300	Salt water WV Department of
Sand	1300	1430	
Sha le	1430	1815	Environmental Protection
Sand Berea	1815	1818	SI Show Gas
Shale-Siltstone	1818	4003	
Limestone	4003	4092	
Sandstone	4092	4100	
Sandy Limestone Helderberg	4100	4116	Total Depth

(over)

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

Production Report

3 ORISKAMY								BENEA					ļ		
N	1 .												1		
Total Oil 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Gas 863	460	4807	3548	4191	3740	4181	4352	811	2939	3423	2789	2847	0	0	0
Production Year 1985	1986	1988	1989	1990	1991	1992	1993	1995	1996	1998	2004	2005	2010	2011	2012
Well Status Well Type Abandoned Well Gas Well	Abandoned Well Gas Well	Abandoned Well Gas Well	Abandoned Well Gas Well	Abandoned Well Gas Well	Abandoned Well Gas Well	Abandoned Well Gas Well	Abandoned Well Gas Well	Abandoned Well Gas Well	Abandoned Well Gas Well	Abandoned Well Gas Well	Abandoned Well Gas Well	Abandoned Well Gas Well	Abandoned Well Gas Well	Abandoned Well Gas Well	Abandoned Well Gas Well
County Wood	Wood														
Operator GENERAL ELECTRIC CO. D/B/A GE PLASTICS	GENERAL ELECTRIC CO. D/B/A GE PLASTICS	GENERAL ELECTRIC CO. D/B/A GE PLASTICS	GENERAL ELECTRIC CO. D/B/A GE PLASTICS	GENERAL ELECTRIC CO. D/B/A GE PLASTICS	GENERAL ELECTRIC CO. D/B/A GE PLASTICS	GENERAL ELECTRIC CO. D/B/A GE PLASTICS	GENERAL ELECTRIC CO. D/B/A GE PLASTICS	GENERAL ELECTRIC CO. D/B/A GE PLASTICS	GENERAL ELECTRIC CO. D/B/A GE PLASTICS	GENERAL ELECTRIC CO. D/B/A GE PLASTICS	GENERAL ELECTRIC CO. D/B/A GE PLASTICS	GENERAL ELECTRIC CO. D/B/A GE PLASTICS	GENERAL ELECTRIC CO. D/B/A GE PLASTICS	GENERAL ELECTRIC CO. D/B/A GE PLASTICS	GENERAL ELECTRIC CO. D/B/A GE PLASTICS
API 10700766	10700766	10700766	10700766	10700766	10700766	10700766	10700766	10700766	10700766	10700766	10700766	10700766	10700766	9920020	9920020 <mark>15</mark>

WW-4A	
Revised	6-07

1)	Date:	January 21, 2	015		
2)	2) Operator's Well		er		
3)	API Well	No.: 47 -	107	0766	

STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS NOTICE 0F APPLICATION TO PLUG AND ABANDON A WELL

) Surface Ow	A	and Francisco and Artist	NT.	N.P. CORNERS	
(a) Name Address	Appalachian Shale Crack		Name	None	
Address	1735 Market Street, Floor		Address	(7117-11-11-11-11-11-11-11-11-11-11-11-11	
(b) M	Philadelphia PA 19103-75	301	- A) Ci O-		
(b) Name				vner(s) with Declaratio	
Address			Name	Appalachian Shale Cracker E	interprise, LLC
			Address	1735 Market Street, Floor 28	
() NI			N	Philadelphia PA 19103-7501	
(c) Name			Name		
Address			Address	: 	
Inspector	James Stevens		— (a) Cool Lo	ssee with Declaration	
Address	105 Kentuck Road Kenna	1407.05040	Name		
Address			Address	None	
Talankan-	James.S.Stevens@wv.go	JV.	Address	·	
Telephone	304-206-7775				
(2) The The reason	its and the plugging work plat (surveyor's map) show you received these documen	c order; and wing the well location onts is that you have rig	on on Form WW-6.		d in the work and describes the the instructions on the reverses side.
well (2) The The reason However, y Take notice accompany Protection, the Applic	its and the plugging work plat (surveyor's map) show you received these documer ou are not required to take are that under Chapter 22-6 of ing documents for a permit to with respect to the well at the	c order; and wing the well location at its is that you have right action at all. the West Virginia Code to plug and abandon at the location described on mailed by registered	on on Form WW-6. ghts regarding the appli- de, the undersigned well well with the Chief of the or the attached Applicat for certified mail or de	operator proposes to file or has to Office of Oil and Gas, West V ion and depicted on the attached	
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Oil and Gas Privacy Notice

The Office of Oil and Gas processes your personal information, such as name, address and phone number, as a part of our regulatory duties. Your personal information may be disclosed to other State agencies or third parties in the normal course of business or as needed to comply with statutory or regulatory requirements, including Freedom of Information Act requests. Our office will appropriately secure your personal information. If you have any questions about our use of your personal information, please contact DEP's Chief Privacy Officer at depprivacyoffier@wv.gov.

COMPLETE THIS SECTION ON DELIVERY
A. Signature X. Quint D. Agent D. Addressee B. Received by (Printed Name) D. Is delivery address different from item 17 Yes If YES, enter delivery address below: 3. Service Type D. Certified Mail® Priority Mail Express® Registered Return Receipt for Merchandise Insured Mail Collect on Delivery
4. Restricted Delivery? (Extra Fee)
90 סמם 4317 איז

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Office of Oil and Gas .

FEB 1 8 2015

WV Department of Environmental Protection WW-9 Rev. 5/08

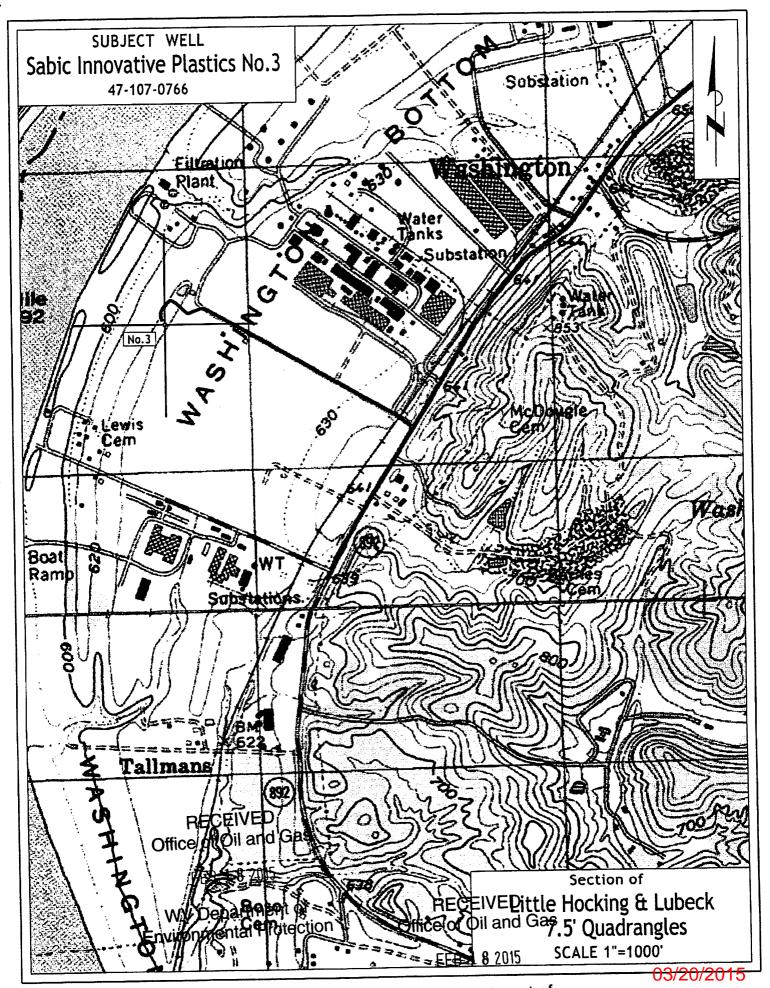
		Page	1		of 2	
API Number	47 -	107		_	0766	
Operator's We	ell No	0.3				

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

CONSTRUCTION AND RECLAMATION PLAN AND SITE REGISTRATION APPLICATION FORM GENERAL PERMIT FOR OIL AND GAS PIT WASTE DISCHARGE

GENERAL PERMIT F					
Operator Name SABIC Innovative Plastics		C	OP Code		_
Watershed Ohio River	Q	uadrangle Little	e Hocking 7.5'		
Elevation 603.25 County V	Vood		District Lubeck	<	
Description of anticipated Pit Waste: Fluids enco	untered wh	nile plugging	subject well		
Will a synthetic liner be used in the pit? Yes; 20 mil					
Proposed Disposal Method For Treated Pit Wastes: Land Application					
X Underground Injection (U	IC Permit Num	ber_34-105-2-1361	19-00-00)
)
Off Site Dispposal (Supply					
Other (Explain					_
Proposed Work For Which Pit Will Be Used:					
95. 1111		Swabbing			
Drilling Workover Other (Explain	. <u>X</u>	Plugging			
Other (Explain					-
I certify that I understand and agree to the ter on August 1, 2005, by the Office of Oil and Gas of the provisions of the permit are enforceable by law. Vio law or regulation can lead to enforcement action. I certify under penalty of law that I have papplication form and all attachments thereto and the obtaining the information, I believe that the information penalties for submitting false information, including the Company Official Signature Company Official (Typed Name) Scott Danse Company Official Title Site Manager	e West Virginia plations of any personally examinat, based on ation is true, a ne possibility of	Department of I term or condition mined and am fa my inquiry of the accurate, and con	Environmental Pro on of the general po- amiliar with the in those individuals mplete. I am awa nment. Of	rection. I understand ermit and/or other appropriate immediately responsare that there are significe of Oil and FEB 18 2015	d that the pplicable d on this sible for gnificant Gas Gas
Subscribed and sworn before me this 22nd	day of Jai	nuavy	Envir , 20_/5	onmental Prot	lection
Thanut K Colle			Notory Public	¥	
My commission expires May 3 2024			BEY BY TEN	OFFICIAL SEAL otary Public, State of West Vi HARRIET R. COLLIN arkersburg & Wood Co. Public t 3100 Emerson Ave.	VS /

L	EGEND
Property Boundary	Diversion Leaves
Road = = = = = = = = = = = =	Spring
Existing Fence — 🗴 — 🗶 —	Wet Spat
Planned Fence////	Drain Pipe with size in inches
Stream	Waterway \longleftrightarrow
Open Ditch	Cross Drain
Rock ESESE	Artificial Filter Strip
North N	Pit: cut walls
Buildings	Pit: compacted fill walls
Water wells	Area for Land Application of Pit Waste
Drill site	
Proposed Revegetation Treatment: Acres Disturbed 0.5 ACI	res Prevegetation pH 6.15
2010 4010 4010 4010 4010 4010 4010 4010	
Fertilizer (10-20-20 or equivalent)lbs/a	acre (500 lbs minimum)
Mulch Straw; 2 Tons/ac	ora .
Mulcii 1011s/ac	ie
Seed	Mixtures
Area I	Area II
Seed Type lbs/acre	Seed Type lbs/acre
Tall Fescue 40	
Ladino Clover 5	
	·
Attach: Drawing(s) of road, location,pit and proposed area for land appli	ication.
Photocopied section of involved 7.5' topographic sheet.	
Photocopied section of involved 7.5 topographic sheet.	
	RECEIVED
Plan Approved by:	
	<u>-</u>
Comments:	FEB 1 8 2015
	14871
	WV Department of
Title:	Date: Environmental Protection
Field Reviewed? () Yes () No



WV Department of Environmental Projection

WW-7 5-02

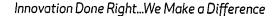
West Virginia Department of Environmental Protection Office of Oil & Gas

WELL LOCATION FORM: GPS

API: <u>47-</u>	107 - 0766	74.	WELL NO:	3
FARM NAME:	Sabic Innovative Plastics			
RESPONSIBLE PARTY N	AME: Sabic In	novative Plasti	es	
COUNTY:	Wood		DISTRICT:	Lubeck
QUADRANGLE:	Little Hocking 7.5	<u> </u>	2	
SURFACE OWNER:	Appalachian Shal	e Cracker Ent	terprise, LLC	. N
ROYALTY OWNER:	Sabic Innovative I	lastics		+
UTM GPS NORTHING:	4,345,712	(NAD 83)	(*)	
UTM GPS EASTING:	440,740	(NAD 83) C	GPS ELEVATION:	188 m. (616.0
height above 2. Accuracy t 3. Data Colle Survey Grade C	GPS coordinates that do not D 1983. Zone:17 North, we mean sea level (MSL) - 10 Datum - 3.05 meters action Method: PS Post Processed D Real-Time Difference.	coordinate Unneters. ifferential	its: meters, Altitud	
I the undersigned betchy	GPS X Post Processed D Real-Time Differ certify this data is correct to formation required by law	the best of m	X ny knowledge and ations issued and	· · · · · · · · · · · · · · · · · · ·
Prescribed by the Office of Signature	f Oil and Gas. Timothy P. Roush	ų.	Professional :	Surveyor
10/14/2014 Date	0	RECEIV		

FEB 1 8 2015

WV Department of Environmental Protection





January 30, 2015

Appalachian Shale Cracker Enterprise, LLC 1735 Market Street, Floor 28 Philadelphia, PA 19103-7501

RE:

Notice of Application to Plug and Abandon a Gas Well

Well 3 (47-107-0766)

SABIC Innovative Plastics US, LLC

9226 DuPont Road Washington, WV 26181

To whom it may concern:

SABIC Innovative Plastics US, LLC (SABIC) is applying for a permit from the West Virginia Department of Environmental Protection (WVDEP), Office of Oil and Gas to plug and abandon the above-referenced gas well. On behalf of SABIC, Michael Baker Jr., Inc. (Baker) is submitting the following documents to Appalachian Shale Cracker Enterprise, LLC (ASCENT) because it is the surface owner and/or coal operator/owner/lessee of record.

- Form WW-4A Notice of Application to Plug and Abandon a Well
- Form WW-4B Application for a Permit to Plug and Abandon (signed off by inspector)
- Form WW-7 Well Location Form and Topography Map of Well (in lieu of plat/Form WW-6)
- Surface Owner Waiver
- Coal Operator/Owner/Lessee Waiver
- Available Well Records/Completion Report

If you have no objection to the proposed well work, please indicate such by signing and filing the aforementioned Surface Owner Waiver and Coal Operator/Owner/Lessee Waiver with the WVDEP, Office of Oil and Gas at the following address.

Chief, Office of Oil and Gas
 Department of Environmental Protection
 601 57th Street SE
 Charleston, WV 25304

Any comments regarding the proposed well work must be filed in person or received in the mail by the Chief's office within five days after the permit application filing date. If you have any questions or require additional information, please feel free to contact me at (412) 269-6136 or via e-mail at smoother:months.com.

Sincerely,

MICHAEL BAKER JR., INC.

Scott K. Moffett, PG, PMP Project Manager

Enclosure: Notice of Application to Plug and Abandon a Gas Well

cc: Mr. Scott Dansey, SABIC (electronic copy)

Mr. John Garner, SABIC (electronic copy)

RECEIVED
Office of Oil and Gas

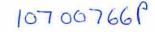
FEB 1 8 2015

WV Department of Environmental Protection

RBF

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Innovation Done Right...We Make a Difference

February 11, 2015 Mr. Jeff McLaughlin West Virginia Department of Environmental Protection Office of Oil and Gas 601 57th Street, SE Charleston, WV 25304-2345

CK 1547

RE:

Permit Application to Plug and Abandon

Well 3 (47-107-0766)

SABIC Innovative Plastics US, LLC

9226 DuPont Road Washington, WV 26181

Dear Mr. McLaughlin:

On behalf of SABIC Innovative Plastics US, LLC (SABIC), Michael Baker Jr., Inc. (Baker) is submitting to the West Virginia Department of Environmental Protection (WVDEP), Office of Oil and Gas the enclosed application for a permit to plug and abandon Well 3 (47-107-0766) at the above-referenced facility. Per our previous telephone conversations, a complete application package is enclosed:

- Form WW-4B (signed off by inspector)
- Form WW-4A
- Form WW-9
- Form WW-7 and Topography Map of Well (in lieu of mylar plat)
- Well Records/Completion Report
- Certified Mail Receipt (and cover letter delivered to property owner/coal operator/owner/lessee)
- A \$100 fee made payable to the WVDEP

Please note that the required bond is already on file at the WVDEP.

In accordance with SABIC's Consent Order dated December 17, 2014, the above-referenced well must be plugged by April 30, 2015. SABIC has retained Meadows Well Service and intends to begin plugging of the well as soon as possible, so timely processing of this permit application is greatly appreciated. If you have any questions or require additional information, please feel free to contact me at (412) 269-6136 or via e-mail at <a href="mailto:smootheadth:smoot

Sincerely,

MICHAEL BAKER JR., INC.

Scott K. Moffett, PG, PMP

Project Manager

Enclosure: Permit Application (original and 2 copies)

cc: Mr. Scott Dansey, SABIC (electronic copy) Mr. John Garner, SABIC (electronic copy) RECEIVED
Office of Oil and Gas

FEB 1 8 2015

WV Department of Environmental Protection





1) Date:	September	15	 _, 13	86
	Borg-Warr			

Borg-Warner Well No. _

47 -107-0766-Rev -F 3) API Well No.

STATE OF WEST VIRGINIA DIVISION OF OIL & GAS STATE OF WEST VIRGINIA DEPARTMENT OF ENERGY, OIL AND GAS DIVISION DEPARTMENT OF ENERGY, OIL AND GAS DIVISION OF A WELL WORK PERMIT.

921 AIT 114	ILIVI OF	CIVE!".		APPL	ICATIO	N FOR A WELL W	ORK PERMIT		
4) WELLTYPE 5) LOCATION:	B (If "	Gas", Pro-	603.2	5 1c (D.	3		110 Klyer	Deep/Quadrangle: Lit GENT Arthur P 0 B02	tle Hocking 437
6) WELL OPER Address 8) OIL & GAS	Pa	rkers	burg	WV D	261	01	Address — DRILLING CON	Parkers	sburg, WV
Name Address	Rt. Mine	. Mt.	Ple	asan WV	2615	<u> </u>	Address	Stimulate_XX	
10) PROPOSET		er FORM	Other phi	old for ysical cl	rmation_ nange in	well (specify)	new formation_	XX/	
11) GEOLOGIC 12) Estima 13) Appro- 14) Appro-	ted depth o ximate trata ximate coal	i completed depths: seam depti	Fresh, — hs: ——				1300 being mined in the s	feet. area? Yes	
15) CASING A CASING OR TUBING TYPE	ND TUBI	NG PROG	RAM FICATIONS Weight per ft.	New	Used	For drilling	TERVALS Left in well	CEMENT FILL-UP OR SACKS (Cubic feet)	Office of Oil and Gas
Conductor Fresh water Coal		4 H-4		XX		110		to surface	Sizes FEB 18 2015 Depths set WV Department of
Intermediate Production Tubing	8 5/1 5 1/1	K-55		XX		4061	4061	20 sx	Environmentat Protection
Line						14.1			A sign of the state of the stat
						OFFICE USE	ONLY ERMIT		19 86
Permit numbe	r)7-076		tion sho		of permission grai	D	ate
anirements su	ום ובכי נס נווי		-		a also be	ans nermilled WOTI	L		ance with the pertinent legal to it and Gas Inspector. (Refer to ontractor shall notify the proper stand conditions specified on the and prosecuted with due diligence.
Permit expire	1.	described Dece	mber	5, 19	88	unless w	ell work is commen		nd prosecuted with due diligence.
Bond:	Age	ent:	Plat	Ca	sing	Fee WPC 413827 0	IN SEE	Other	SHIR
NOTE: Ke	eep one cor	y of this p	permit pos	ted at t	he drillin	g location.	Streets !	ivesion of O	03/20/2015
				ci	de of the	APPLICANTS CO	/s a 101 indiana.		









Oil and Gas Division

OIL AND GAS WELL PERMIT APPLICATION

Charleston, W. Va.	DATE	March 3 1977	
Surface Owner Borg-Warner Corporatio		D	
Address P. O. Box 1868, Parkersburg		P.O.Box1868, Parkersburg, WY 26101	
Mineral Owner Same		org Warner Corporation Acres 190.79	
Address		on (waters) Ohio River	
Coal Owner None		Three Elevation 599.5	
Address	District	William with	
Coal Operator	Quadra	ingleLittle Hocking 7 1/2	
Address		REC	EIVED
THIS PERMIT MUST BE POSTED AT THE WE	ELL SITE		
All provisions being in accordance with Chap	ster 22	Office of C	Oil and Gas
of the W. Va. Code, the location is hereby as	pproved	EED :	1 0 0045
for Oxelling. This permit shall e	expire if	FEB :	1 8 2015
operations have not sommenced by 7-8-			_
hotet I ble	•	, WV Dep	artment of
Deputy Director - Oil & Gas Division	WAT	THE Vaul Clases Envitonmen	ntal Protection
73	ISFECTOR TO BE NOT	.31 22 -	
GENTLEMEN: PE	1: 471-245.5 A	DERESS Janutholett, W. Oa.	
GENTLEMEN: The undersigned well operator is entitled to	drill upon the above na	DERESS A TO THE COLOR OF LAND	
GENTLEMEN: The undersigned well operator is entitled to title thereto, (or as the case may be) under grant the thereto, where the title thereto.	drill upon the above na ant or lease dated O	numed farm or tract of land for oil and gas, having fee ct. 9, 1970 by Arthur O.	
GENTLEMEN: The undersigned well operator is entitled to title thereto, (or as the case may be) under grammade to Borg Warns.	d: <u>471-3455</u> Aidrill upon the above na ant or lease dated or Corporation an	med farm or tract of land for oil and gas, having fee ct. 9 1970 by Arthur O. day of	
GENTLEMEN: The undersigned well operator is entitled to title thereto, (or as the case may be) under grammate to Borg Warne. Mollendick made to Borg Warne. 19 in Wood County, Bool	d: <u>471-3455</u> Aldrill upon the above na ant or lease dated or Corporation an	med farm or tract of land for oil and gas, having fee ct. 9 1970 by Arthur O. day of	
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GENTLEMEN: The undersigned well operator is entitled to title thereto, (or as the case may be) under grace. Mollendick made to Bory Warne. 19, in	drill upon the above na ant or lease dated r Corporation and 579 Page	DERESS J. 1970 W. Oa. uned farm or tract of land for oil and gas, having fee ct. 9, 1970 by Arthur O. day of	
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GENTLEMEN: The undersigned well operator is entitled to title thereto, (or as the case may be) under grammed to the second made to the second mad	drill upon the above na ant or lease dated r Corporation and 579 Page	numed farm or tract of land for oil and gas, having fee ct. 9. 1970 by Arthur O. Arthur O. day of	
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GENTLEMEN: The undersigned well operator is entitled to title thereto, (or as the case may be) under grace. Mollendick made to Borg Warne. 19, in	drill upon the above na ant or lease dated respection and ant or lease dated respection and ant or lease dated respectively. The respective respectively are hereby notified the respectively or filed with the respective respectively.	med farm or tract of land for oil and gas, having fee ct. 9 1970 by Arthur O. and recorded on the	
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The undersigned well operator is entitled to title thereto, (or as the case may be) under gray Mollendick made to Borg Warne. 19 in County, Bool X	drill upon the above na ant or lease dated reportion and 579 Page DEEPER RLY DRILLED BEFORE and engineer or licensed for are hereby notified the eived by, or filed with the ere mailed by registered address and the eived by the Department of Very truly Survey (Sign Name Address of	med farm or tract of land for oil and gas, having fee ct. 9 1970 by Arthur O. and recorded on the	

*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 filling 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 and thorized to proceed the reclamation recruirements.

as set forth in Chapter 22, Article 4, Section 12-b and will carry out the specified requirements.	W00-766	PERMIT NUMBER
Hand by Cother N. Sandy	47-107	

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

PROPOSED WORK ORDER TO	D. X DRILL	DEEPEN	Fra <i>c</i> ture-stimulate	
DRILLING CONTRACTOR: (I	(Known)	RESPONSIBLE AGENT	r:	
NAME	·	NAME Arthur B		_
ADDRESS		ADDRESS P.O.Box	1868, Parkersburg, WV 2	6101
TELEPHONE		TELEPHONE 485 1	_	
ESTIMATED DEPTH OF COM	VETED WELL 4200		CABLE TOOLS	-
PROPOSED GEOLOGICAL FOR		NOTAKI	CABLE TOOLS	···
PROPOSED GEOLOGICAL FOR	(MATION:	X	E DISPOSAL	
TYPE OF WELL: OIL			•	
TENTATIVE CASING PROGRA	•	NG WATER FL	OODOTHER	-
CASING AND TUBING	USED FOR	LEFT IN	CEMENT FILL UP	-
SIZE	DRILLING	WELL	OR SACKS - CUBIC FT.	_
20 - 16				-
13 - 10	150	150	Surface	_
9 - 5/8			COOL 4 - 371111	<u>-</u>
8 - 5/8	1841	1841	500' to 1341'	_
7	A.P.*	4091	400' to 3771'	-
5 1/2	<u> </u>	4071	100 (0 3771	-
4 ½ 3		1	Perf. Top	-
2			Perf. Bottom	-
Liners			Perf. Top	-
			Perf. Bottom	_
		<u> </u>		=
APPROXIMATE FRESH WATE	87	SALT WATER	FEET	-
APPROXIMATE COAL DEPTHS		· · · · · · · · · · · · · · · · · · ·		•
IS COAL BEING MINED IN T	HE AREA? NO	BY WHOM? _		•
TO DRILL:	•			
SUBMIT PIVE (5) COPIE OF PLAT.	S OF OG - 1, \$100.00 PERM	IT FEE, PERFORMANCE	BOND AND PERMANENT COPY	
TO DRILL DEEPER OR REDR	u t .			
SUBMIT PIVE (5) COPIES	OF OG - 1, SHOWING ORIG TO 1929, A PERMANENT O		ND PERFORMANCE BOND. ON THE ORIGINAL WELL RECORD	
TO FRACTURE - STIMULATE:				
OIL AND/OR GAS WELL	ORIGINALLY DRILLED BEFO) COPIES OG - 1, PERFORMANCE	3
OIL AND/OR GAS WELL		ND/OR AFTER JUNE 5, 19	929, FIVE COPIES OG - 1, SHOW-	
	UMBER, AND PERFORMANCE			RECEIVED
Required forms must be fi four (24) hours in advance	led within ninety (90) days of	completion for bond release	e. Inspector to be notified twenty	office of Oil and Gas
To the second se				FEB 1 8 2015
The following waiver must	be completed by the coal or	erator if the permit is to b	e issued within ten days of receip	WV Department of
			er or Operator of the coal under	Monnema Fibleci
	ined and place on our mine n			
			well being drilled at this location d 7, Chapter 22 of the West Virginia	
		w	For Coal Company	-
				03/20/2015
	•		Official Title	-

