

### 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

August 31, 2015

#### WELL WORK PLUGGING PERMIT

### Plugging

This permit, API Well Number: 47-8702434, issued to HG ENERGY, 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.

Operator's Well No: 3

Farm Name: CHAMBERS, C. B.

API Well Number: 47-8702434 Permit Type: Plugging

Date Issued: 08/31/2015

# 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.

WW-4B Rev. 2/01

1) Date	August 4		2015
2)Opera	ator's No.C.B.C	hambers 3	
3) API	Well No.	47-007	2434

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

	OFFICE OF O	IL AND GAS
	APPLICATION FOR A PERM	IT TO PLUG AND ABANDON
4)	/ Coo X / Liquid	
5)	Location: Elevation 1027' District Smithfield	Watershed Edgle Fork  County Roane Quadrangle Looneyville 7.5'
6)	Well Operator HG Energy, LLC 5260 Dupont Road Parkersburg, WV 26101	7) Designated Agent Diane White Address 5260 Dupont Road Parkersburg, WV 26101
8)	Oil and Gas Inspector to be notified  Name Joe Taylor  Address 1478 Claylick Road  Ripley, WV 25271	9) Plugging Contractor  Name To Be Determined Upon Approval of Permit  Address
10)	** See Attach	ner of plugging this well is as follows:
		RECEIVED Office of Oil and Gas
		AUG 1 3 2015
		WV Department of Environmental Protection
No	tification must be given to the district	oil and gas inspector 24 hours before permitted
	rk can commence.	Date 8-11-18
WO		09/04/2015

WW-4B - Conti Rev. 2/01

1) 2)	Operator's Well N	igust 4, 20 Number Chambers			
2)	API Well No:	47 -	087	-	2434
3)	Art well ivo.	State	County	•	Permit

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

## APPLICATION FOR A PERMIT TO PLUG AND ABANDON

		APPLICATION TORTH Brane		
4)	WELL TYPE:	(If "Gas", Production Un	iquid Injection Waste Disposal Inderground Storage ) Deep Shallow	<u>x</u>
5)	LOCATION:	Elevation.	County: Koane	ville 7.5'
6)	WELL OPERAT Address	OR: HO Energy, ELC	4.94E+08 7) DESIGNATED AGENT Diane White  Address 5260 Dupont Roa Parkersburg, WV	d 26101
8)	OIL & GAS INS	SPECTOR TO BE NOTIFIED  Joe Taylor  1478 Claylick Road	9) PLUGGING CONTRACTOR  Name To Be Determined Upon Approval  Address	of Permit
		Ripley, WV 25271		
_			rging this well is as follows:	

10) WORK ORDER: The work order for the manner of plugging this well is as follows:

TD- 2,095'

Pull 5 1/2" casing liner (If unable to pull, free point, part and pull as much as possible. Place 100' plug across shoe and stub. Erforate for additional plug placement)

Plug #1 -

2000' - 1900'

Located above Big Injun and across 6 5/8" casing shoe

Free point, part and pull 6 5/8" casing at approx 1500'

Plug #2 -

Approx 1550' - 1450'

Located at 6 5/8" casing stub

Plug #3 -

1075' - 900'

Located at elevation and 8 1/4" casing shoe

Plug #4 -

Approx 650' - 550'

Located at 8 1/4" casing stub and below fresh water

Plug #5 -

100' - 0'

Surface

Recover all possible casing. If casing can not be recovered, perforate for plug placement.

RECEIVED Office of Oil and Gas

Monument:

6" minimum diameter metal pipe

30" above surface

10' in well below surface

Sealed with cement

API identification (1/2") height numbering

6% Gel between all plugs

AUG 1 3 2015

WV Department of **Environmental Protection**  Casin
Size
8 1/4"
6 5/8"
5 3/16"

C.B. Chambers #3

Monument min. 6" dia.metal pipe, 30" above surface, 10' in well below surface, sealed with cement, API id.

Elevation 1027'

Casin	g Informatio	n
Size	Depth	Weight
8 1/4"	930'	#/ft.
6 5/8"	1935'	#/ft.
5 3/16"	1350'	#/ft.

Freepoint	<b>Cut and Pull Casing</b>
Size	Approx. Depth
5 1/5	1350'
65/8	1500'
8 1/4	600'

Cement Plugs					
NO.	Bottom	Тор			
1	2000	1900			
2	1550	1450			
3	1075	975			
4	650	550			
5	100	. 0			

**Bottom Hole Cement Level Calculations** 

# Sacks Used

Cement Depth

70

2208.649

Hole Size

Casing Size Depth

6.5

4.5 2668

diameter delta

Conv. Factor bbls / ft.

22

1020 4 0.00

1029.4

0.021372

cubic ft. per vertical ft. depth 0.119991257

Sacks per vertical ft. depth

0.152388896

← Edit Yield Options

#### **Yield options**

50/50 posmix 6% gel = 1.64 Neat w/ salt flakes = 1.19 50/50 w/ 2% gel = 1.27

TD 2095 '

4

Note: 6% gel between all plugs

RECEIVED
Office of Oil and Gas

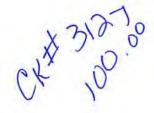
AUG 1 3 2015

WV Department of Environmental Protestion

PAGE 02/02

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tate			i		Dr'g	Completed	Dec	<u>5, 1</u>	910	Date So			
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WW-4A Revised 6-07



1) Date:	August 4, 2015	
	r's Well Number	

3) API Well No.: 47 -

CB Chambers 3

087

2434

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

(a) Name	Russell Schoolcraft, Jr.	Name		
Address	4045 Clay Road	Address		
	Spencer, WV 25276		7 ( ) 11 Declematio	
(b) Name			ner(s) with Declaratio	
Address		Name		
		Address		
(c) Name		Name		
Address	-	Address		
E-Formation Inc.	L. Today	(c) Coal Less	see with Declaration	
Inspector	Joe Taylor	Name		
Address	1478 Claylick Road	Address		
E 4 4 4	Ripley, WV 25271	Address		
Telephone	304-380-7469			
(1) The well (2) The The rease However	application to Plug and Abandon a lits and the plugging work order; a plat (surveyor's map) showing the on you received these documents is that you are not required to take any action a	well location on Form WW-6.  you have rights regarding the applicated the supplicated the supp	sets out the parties involv	red in the work and describes the
(1) The well (2) The rease However Take not accompa	application to Plug and Abandon a lits and the plugging work order; a plat (surveyor's map) showing the on you received these documents is that	a Well on Form WW-4B, which nd well location on Form WW-6. you have rights regarding the applicate tall.  Virginia Code, the undersigned well a abandon a well with the Chief of the described on the attached Application registered or certified mail or delegated.	sets out the parties involvation which are summarized in operator proposes to file or have office of Oil and Gas, West	red in the work and describes the in the instructions on the reverses side.  If the instructions on the reverses side is filed this Notice and Application and Virginia Department of Environmental of Form WW-6. Copies of this Notice.
(1) The well (2) The rease However Take not accompa	e application to Plug and Abandon at lits and the plugging work order; as plat (surveyor's map) showing the plug received these documents is that you are not required to take any action a cee that under Chapter 22-6 of the West raying documents for a permit to plug and now, with respect to the well at the location leation, and the plat have been mailed recumstances) on or before the day of marketing and the plat have been mailed by the company of the plat have been mailed by	a Well on Form WW-4B, which and well location on Form WW-6. you have rights regarding the applicated and the control of the described on the attached Application of the described on the attached Application of the control of the co	sets out the parties involved ation which are summarized in operator proposes to file or has a Office of Oil and Gas, West on and depicted on the attached ivered by hand to the personal	red in the work and describes the in the instructions on the reverses side.  Is filed this Notice and Application and Virginia Department of Environmental deform WW-6. Copies of this Notice, (s) named above (or by publication in
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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.

WW-9 Rev. 5/08

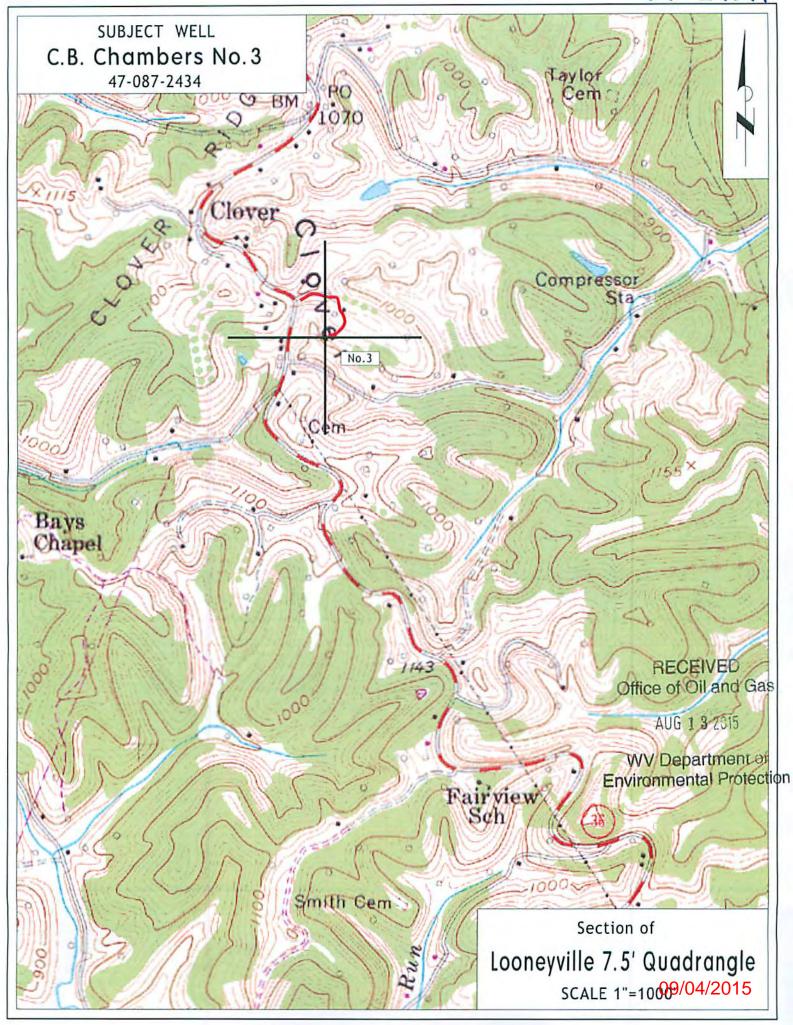
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API Number 47 -	087	-	02434	
Operator's Well N	O. CB Char	nbers 3		

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

CONSTRUCTION AND RECLAMATION PLAN AND SITE REGISTRATION APPLICATION FORM

Operator Name_HG Energ	y, LLC		OP Co	ode 49449	7946
Vatershed_Edgle Fork		Quadrang	Looney	ville 7.5'	
Elevation 1027'	<sub>County</sub> Roane		Dis	strict Smith	field
Description of anticipated Pit V	Vaste: Fluids encountere	d while	e plugging	g subject	well
	the pit? 20 MIL				
Proposed Disposal Method For	A polication				1
77. 1	July A Taination / LIIC Dormit N	lumber			
Reu	se (at API NumberSite Dispposal (Supply form WW-	0 for dier	ocal location)		
Off	er (Explain	-9 for disp	iosai iocation)		
Proposed Work For Which Pit	Will Be Used:				
			vabbing		
Wo	ling rkover	х Р	ugging		
Oth	er (Explain				
on August 1, 2005, by the Off provisions of the permit are elaw or regulation can lead to elaw or regulation can lead to each of the permit are elaw or regulation form and all attached the information. It	the of law that I have personally of the chiments thereto and that, based believe that the information is truinformation, including the possibility piece.	any term  examined on my i	and am faminquiry of the tte, and comp	of the general iliar with the se individual lete. I am a	permit and/or other applicable information submitted on this immediately responsible for tware that there are significant RECEIVED Office of Oil and Ga
Company Official (Typed Na	<sub>ume)</sub> Diane White				AUG 1 3 2015
Company Official Title AC	jent				W/V Dopartment of
Company Official Title					WV Department of Environmental Protect
	411	Augu	iet	. 1	5
Subscribed and sworn before	4th	Muyu	iot .	, 20	
	me this 4th day of	0			

	LEGEND
Property Boundary  Road = = = = = = = = = = = = = = = = = = =	Spring Wet Spot  Drain Pipe with size in inches Waterway  Cross Drain  Artificial Filter Strip  Pit: cut walls  Pit: compacted fill walls  Area for Land Application of Pit Waste
Proposed Revegetation Treatment: Acres Disturbed	Prevegetation pH
Seed Type Area I Tall Fescue 40 Ladino Clover 5	Seed Type Area II  Tall Fescue 40  Ladino Clover 5
Attach: Drawing(s) of road, location,pit and proposed area for land Photocopied section of involved 7.5' topographic sheet.  ** Sediment Control Should Be in Plate Plan Approved by: Comments:	Office of Oil and Gas
Title: OGG Inspect  Field Reviewed? () Yes ()	Date: 8-11-15 X_)No



WW-7 5-02

### West Virginia Department of Environmental Protection Office of Oil & Gas

## WELL LOCATION FORM: GPS

API: 47- 087 - 2434		W	WELL NO:3		
FARM NAME:	C.B. Chambers No.3				
RESPONSIBLE PARTY NA	AME: H.G. E	nergy, LLC			
COUNTY:	Roane	DIS	STRICT:	Smithfield	
QUADRANGLE:	Looneyville 7.5'				
SURFACE OWNER:	Russell Schoolcra	ift Jr.			
ROYALTY OWNER:	H.G. Energy, LL	C et al.			
UTM GPS NORTHING:	4,285,745	(NAD 83)			
UTM GPS EASTING:	475,242	(NAD 83) GPS EL	EVATION:	313 m. (1027)	
height abov 2. Accuracy to	D 1983, Zone:17 North, of mean sea level (MSL) - 10 Datum - 3.05 meters	Coordinate Units: met	3444		
<ol> <li>Data Collection</li> <li>Survey Grade Gl</li> </ol>	rtion Method: PS Post Processed D Real-Time Differ	The state of the s		RECEIVED Office of Oil and Gas	
Mapping Grade GPS X Post Processed Differential		Differential X		AUG 1 3 2015	
I the undersigned, hereby co belief and shows all the info prescribed by the Office of	ormation required by law a	the best of my knowle	edge and	WV Department of Environmental Protection	
Diane White	Diane C. White	De	esignated Age	ent	
Signature		Title	0		
July 30,	2015				
Date					