

### 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

May 09, 2016

## WELL WORK PLUGGING PERMIT

#### Plugging

This permit, API Well Number: 47-4302326, 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.

Chief

James Martin

Operator's Well No: STOWERS HEIRS 6

Farm Name: STOWERS, BARBARA

API Well Number: 47-4302326

Permit Type: Plugging Date Issued: 05/09/2016

## 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 Febru	1) Date February 10					
2)Operator	s					
Well No.	Stowers	Heirs 6				
3) API Well	No.	47-043		- 2326		

## STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION

(If "(	Gas, Production or Un	nderground storage) Deep/ Shallow_X
Location: Ele	A Control of the Cont	Watershed Hayzlett Fork
Dis	strict Duval - 62	County Lincoln Quadrangle Garrett's Bend 7.5'
Well Operator	HG Energy, LLC	7) Designated Agent Diane White
	5260 Dupont Road	Address 5260 Dupont Road
	Parkersburg, WV 26101	Parkersburg, WV 26101
Name Jeremy James  Address PO Box 36  Clendenin, WV 25045		Name To Be Determined Upon Approval of Permit
Work Order: '	The work order for the mar	mer of plugging this well is as follows:

Notification must be given to the district oil and gas inspector 24 hours before permitted work can commence.

Work order approved by inspector

Environmental Protection 05/13/2016

WW-4B - Conti Rev. 2/01

1) Date: February 10, 2016 Operator's Well Number Stowers Heirs 6 API Well No: 47 043 State County Permit

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

#### APPLICATION FOR A PERMIT TO PLUG AND ABANDON

4)	WELL TYPE:		x Gas , Production	х	Liquid Injec Undergroun		Waste Dis	· —	allow x
5)	LOCATION:	Elevation:	879'		_Watershed:_	Laurel Fork	. <u>.</u>		
		District:	Duval		County:	Lincoln	(	Quadrangle	Garrett's Bend 7.5'
6)	WELL OPERAT	OR: HG Ener	gy, LLC		494497948	7) DESIGNAT	ED AGENT	Diane W	/hite
	Address	5260 Du	pont Road				Address	5260 Dı	ipont Road
		Parkersb	urg, WV 26101				-	Parkersl	ourg, WV 26101
8)	OIL & GAS INS	PECTOR TO	BE NOTIFIED			9) PLUGGING	CONTRAC	TOR	
	Name	Jeremy James				Name	To Be Deter	rmined Upon	Approval of Permit
	Address	P. O. Box 36				Address			
		Clendenin, W	V 25045						

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

TD- 2,450'

Manners of plugging;

Plug #1 - 2350' - 2250'

Located above the highest perforation

Check for free-point at top of Big Lime (1755'), If pipe is free, part and pull. If pipe is not free, preforate for placement of plug #2.

Plug # 2 - Approx. 1800' - 1700'

Located at top of Big Lime - 4 1/2" casing stub

Plug #3 - 925' - 825'

Located at elevation, if pipe was not free at 1755', part and pull at elevation (879')

Plug #4 - 300' - 0'

Located at 8 5/8" casing shoe, fresh water to surface

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

Monument -

6" minimum diameter metal pipe 30" above surface 10' in well below surface Sealed with cement

API identification (1/2") height numbering

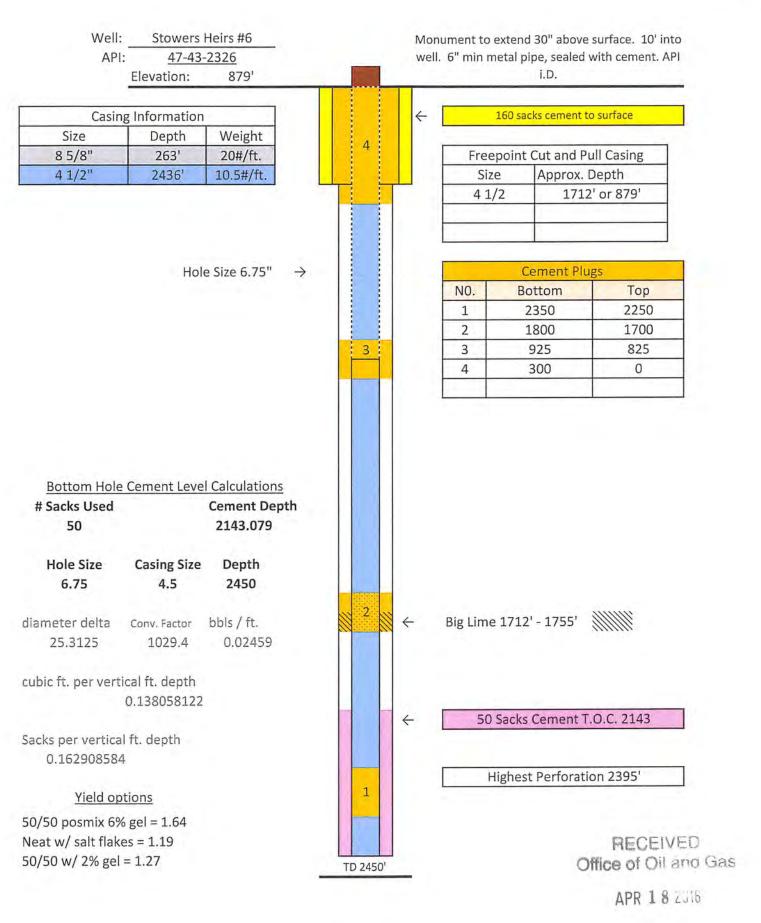
6% Gel between all plugs

RECEIVED Office of Oil and Gas

APR 1 8 2016

WV Department of **Environmental Protection** 

05/13/2016



WV Department of Environmental 05/13/2016

#### PENNZOIL COMPANY Well Completion Report

Lease: Stowers Heirs 75-25	Well No	New Well	x 01d Well
District: Duval County	Lincoln	_ State: We:	st Virginia
Pool Name: Griffithsville Northeas	Pool No. 57	Elevation	888 KB:5
Producing Formation: Berea	. Dept	h: From 2363	to 24081
Date Drilled In: 5-11-79	Pays: 0i	1: From	to
Original Total Depth: 2450'		100	
Plug Back Depth: 2426'	-	From	to
Production Initial	Present	Afte	er Fracture
011	<del> </del>		
Gas			
8-5/8" Surface Csg. set @ 273 KB:EK Gr	H-40 New: Disperd	Wt. 20#	Collars st&c
Cement Reg. Neat Amount 160 Sack	s Plug Down @ 8	3:05 AM:RX	Date 5-8-79
Production Csg. set @ 2446 KB: At	Gr. K-55 New: ts	ccc Wt.10.5非	Collars stac
Cement Reg. Neat . Amount 50 Sack	s Plug Down @ j	2:30 AM:XX	Date 5-12-79
10% Salt Logged by: Basin Surveys			
Logs Used: Gamma Ray-Compensate		200	
Perforated by: McCullough		2	-79
Perforations: 2395' 2400'			
Treatment Data			- C - 2-C
Fluid Sand Acid	Solvent Gel	eaking Fluid Agent Loss	F.R. N.E. Agent Agent
Type 0i1 20/40 15% HCl			
Amount 550 Bbls. 23,000# 500 Gal.			
Breakdown Pressure: 1500 Treating	Pressure: Max. 275	0 Min. 25	50 Avg. 2646
Avg. Inj. Rate 27.8 BPM ISIP 1	.625 @ 1:05 A	dx:PM 5 min	SIP 1325
10 min. SIP 1200 15 min. S	IP 1175 0	ther 3 Hrs.	SIP 700
EQUIPME	-		+
Service Company: Halliburton		HHP	1803
By: Jeff Beardmore		Fractured:	
· · · · · · · · · · · · · · · · · · ·	Dubc		U 22 /2

OFFICE COPY AUG 13 1979

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Formation Color Hard or Soft	Top Feet 16	Bottom Feet	Oil. Cas or Water . Remarks
Send Shale Send Shale Send Shale Sand Shale Sand Shale Sand Shale Send Little Lime Pennil Ceve Big Line Loyal Hanna Limestone McCrady Shale Poono Sandstone Shale Weir Sandstone Shale Coffee Shale Berea Sandstone Shale	840 849 859 869 1004 1020 1069 1073 1155 1163 - 1235 1254 1340 1416 1420 1615 1624 1659 1706 1712 1755 1762 1876 1913 1950 2040 2168 2365 2384 2409	849 859 869 1004 1028 1069 1073 1155 1163 1235 1254 1338 1340 1416 1420 1615 1624 1669 1706 1712 1755 1762 1876 2913 2940 2108 2365 2365 2364 2409 2409 2409	
Total Dapth		2450 2426	JJL-10-6 7.0
if the second			

WW-4A Revised 6-07

1) Date:	February 10, 2	016			
<ol><li>Operator's Stowers Heirs 6</li></ol>	Well Number	er			
3) API Well N	Io.: 47 -	043	2	2326	

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

Address	1735 Garrett's Bend Ros	ad /	Address			
	Sod, WV 25564					
(b) Name			(b) Coal C	wner(s) w	ith Declaration	
Address			Name	NA		
	-		Address	_		
(c) Name			Name	-		
Address			Address			
Inspector	Jeremy James		(c) Coal L	essee with	n Declaration	
Address	P. O. Box 36		Name	NA NA		
	Clendenin, WV 25045		Address	670		
Telephone	304-951-2596					
Branch Seattle			_			
well (2) The The reason However, Take notic	you are not required to take a e that under Chapter 22-6 o	ck order; and owing the well location ents is that you have right any action at all.  If the West Virginia Code	on on Form WW-6.  hts regarding the app	lication which	n are summarized in the	e instructions on the reverses side
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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. Environmental Protection WW-9 (2/15)

API Number	47 -	043	_ 2326
One	rator'	s Wel	No Stowers Heirs 6

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

Operator Name	HG Energy, LLC	OP Code 494497948
Watershed (HUC 10)	Hayzlett Fork	Quadrangle Garrett's Bend 7.5'
Do you anticipate usir Will a pit be used?	ng more than 5,000 bbls of water to Yes No	complete the proposed well work? Yes No V
	depende annerparea pri music.	uids encountered while plugging subject well
	etic liner be used in the pit? Yes	The state of the s
	sposal Method For Treated Pit Wast	
_	Underground Injection (UIC	Parmit Number
-	Reuse (at API Number	erilit Number
_		n WW-9 for disposal location)
	em be used? If so, describe: NA	
		rizontal)? Air, freshwater, oil based, etc. NA
-If oil based,	what type? Synthetic, petroleum, e	tc. NA
Additives to be used i	n drilling medium? NA	
Drill cuttings disposal	method? Leave in pit, landfill, ren	noved offsite, etc. NA
-If left in pit	and plan to solidify what medium w	rill be used? (cement, lime, sawdust) NA
-Landfill or o	offsite name/permit number?	
	aste facility. The notice shall be pro	and Gas of any load of drill cuttings or associated waste rejected at any vided within 24 hours of rejection and the permittee shall also disclose
on August 1, 2005, by provisions of the perr law or regulation can I certify und application form and obtaining the informa	the Office of Oil and Gas of the W mit are enforceable by law. Violati lead to enforcement action. Her penalty of law that I have pers all attachments thereto and that, ation, I believe that the information ong false information, including the p	and conditions of the GENERAL WATER POLLUTION PERMIT issuest Virginia Department of Environmental Protection. I understand that ons of any term or condition of the general permit and/or other applicationally examined and am familiar with the information submitted on the based on my inquiry of those individuals immediately responsible is true, accurate, and complete. I am aware that there are signific ossibility of fine or imprisonment.
Company Official Sig	mature Diane White	
Company Official (T	yped Name) Diane White	
Company Official (1	le Agent	RECEIVED
Company Official Tit		1111000 1
Company Official Tit	before me this 10th day	of February, 2016 , 20 16
기업 기업 기업 시간 기업 기업	before me this 10th day	of February, 2016 , 20 16  APR 18  Notary Public

Form WW-9 Operator's Well No. Stowers Heirs 6 HG Energy, LLC Proposed Revegetation Treatment: Acres Disturbed 1.4 acres Prevegetation pH 3 Tons/acre or to correct to pH 6.5 Fertilizer type 10-20-20 500 Fertilizer amount lbs/acre Mulch Straw 2 Tons/acre **Seed Mixtures Temporary** Permanent Seed Type lbs/acre Seed Type lbs/acre Tall Fescue 40 Tall Fescue 40 Ladino Clover Ladino Clover 5 5 Drawing(s) of road, location, pit and proposed area for land application (unless engineered plans including this info have been provided) Photocopied section of involved 7.5' topographic sheet. \*\* Sediment Control Will Be In Place At All Times \*\* Plan Approved by Comments: REGEIVED 

> WV Department of Environmental Protection

## Westbrook, Joshua P

From: Diane White <dwhite@hgenergyllc.com>

Sent: Friday, May 06, 2016 9:49 AM

To: Westbrook, Joshua P

Subject: Pit Fluids

#### Josh,

As per our discussion, HG does not intend to treat pit fluids for the following new well drill sites and plugging sites. HG will contract hauling the pit fluids to an authorized disposal site.

New Drill Sites:

CB Ferrell 218

Jackson Long 220

Jackson Long 129

Jackson Long 130

AW Edgell 127

IB Butcher 128

#### Wells to be plugged:

Stowers Heirs 6

Samuel Bowman 2

AA Woodrum 5

Woodrum Daniels 2

SW Nunn 1

SW Nunn 2

Please let me know if I should provide more information.

Thanks,

Diane

#### Diane C. White



#### HG Energy, LLC

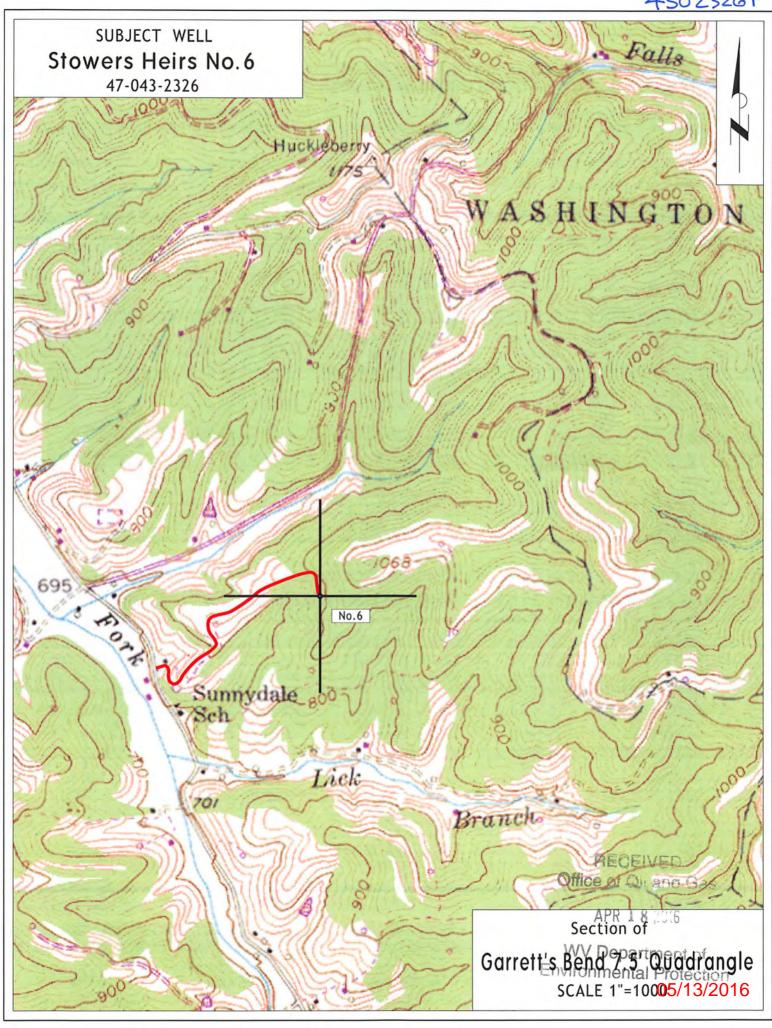
5260 Dupont Road Parkersburg, WV 26101 304-420-1119 (O)

304-482-0108 (C)

304-863-3172 (F)

dwhite@hgenergyllc.com

4302326P



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

# WELL LOCATION FORM: GPS

API: 47	- 043 - 2326	v	VELL NO:	6
FARM NAME:	Stowers Heirs No.6			
RESPONSIBLE PARTY N	AME: H.G. E	nergy, LLC		
COUNTY:	Lincoln	D	ISTRICT:	Duval
QUADRANGLE:	Garrett's Bend 7.	5'		
SURFACE OWNER:	Barbara Stowers			
ROYALTY OWNER:	H.G. Energy, LL	C et al.		
UTM GPS NORTHING:	4,238,984	(NAD 83)		
UTM GPS EASTING:	422,042	(NAD 83) GPS E	LEVATION:	268 m. (879'
2. Accuracy	ve mean sea level (MSL) - r to Datum - 3.05 meters ection Method:	meters.		
Survey Grade C	GPSPost Processed D			
Mapping Grade	Real-Time Differ e GPS X Post Processed D Real-Time Differ	rifferential X		
	certify this data is correct to formation required by law a f Oil and Gas.			
Diane White	Diane C. White		Designated Ag	
Signature		Title	Office of	Oil and Gas
	r 24, 2015		APF	R 18 2015
Date			WV De	epartment of ental Pro05/13/201