

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 28, 2013

WELL WORK PERMIT

Vertical Well

This permit, API Well Number: 47-3305785, 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.

Please be advised that form WR-35, Well Operators Report of Well Work is to be submitted to this office within 90 days completion of permitted well work, as should form WR-34 Discharge Monitoring Report within 30 days of discharge of pits, if applicable. Failure to abide by all statutory and regulatory provisions governing all duties and operations hereunder may result in suspension or revocation of this permit and, in addition, may result in civil and/or criminal penalties being imposed upon the operators.

In addition to the applicable requirements of this permit, and the statutes and rules governing oil and gas activity in WV, this permit may contain specific conditions which must be followed. Permit conditions are attached to this cover letter.

Per 35CSR-4-5.2.g this permit will expire in two (2) years from the issue date unless permitted well work is commenced. If there are any questions, please feel free to contact me at (304) 926-0499 ext. 1654.

James Martin

Chief 📑

Operator's Well No: J.M. FULTZ NO. 246

Farm Name: MYERS, EDGAR LEE JR.

API Well Number: 47-3305785

Permit Type: Vertical Well Date Issued: 08/28/2013

Promoting a healthy environment.

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. If the operator encounters an unanticipated void, or an anticipated void at an unanticipated depth, the operator shall notify the inspector within 24 hours. Modifications to the casing program may be necessary to comply with W. Va. Code § 22-6-20, which requires drilling to a minimum depth of thirty feet below the bottom of the void, and installing a minimum of twenty (20) feet of casing. Under no circumstance should the operator drill more than fifty (50) feet below the bottom of the void or install less than twenty (20) feet of casing below the bottom of the void.
- 2. Pursuant to 35 CSR § 4-19.1.a, at the request of the surface owner all water wells or springs within 1000 feet of the proposed well that are actually utilized for human consumption, domestic animals or other general use shall be sampled and analyzed.
- 3. Pursuant to 35 CSR § 4-19.1.c, if the operator is unable to sample and analyze any water well or spring within one thousand (1,000) feet of the permitted well location, the Office of Oil and Gas requires the operator to sample, at a minimum, one water well or spring located between one thousand (1,000) feet and two thousand (2,000) feet of the permitted well location.
- 4. All pits must be lined with a minimum of 20 mil thickness synthetic liner.
- 5. 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.
- 6. During the surface casing and cementing process, in the event cement does not return to the surface, or any other casing string that is permitted to circulate cement to the surface and does not return to the surface, the oil and gas inspector shall be notified within twenty-four (24) hours.
- 7. Well work activities shall not constitute a hazard to the safety of persons.

3309785

FORM WW-2B

Page 3 of 4

STATE OF WEST VIRGINIA DIVISION OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS WELL WORK PERMIT APPLICATION

1)	Well Operat	or: HO	G Energy, LLC					_
2)	Operator's V	Vell Number:	J. M. Fu	ıltz No. 246		3) Elevation	on1133'	
4)	Well Type:	(a) Oil		Gas	Undergr	round Storage		
5)	Proposed Ta	rget Formati	on(s):	Fifth Sand				
6)	Proposed To	otal Depth:	2875' TVD 315	o' TMD ft.				
7)	Approximat	e fresh water	strata depths:		40'	-		
3)	Approximate	e salt water d	epths:		1235'			
9)	Approximate	e coal seam d	epths:		564'			
10)	Does land co	ontain coal se	ams tributary	to active mine	? Yes	. No	X	-
1)	Proposed W	ell Work	Drill and	stimulate produ	ction well in Fifth S		directionally S 23° E	660!
2)			<u>CA</u>	SING AND TO	JBING PROGRA	<u>\M</u>		
YPE	S	SP	ECIFICATION	NS	FOOTAGE 1	NTERVALS	CEMENT	_
		Size	Grade	Weight Per Ft.	For Drilling	Left in Well	Fill-up (Cu. Ft.)	
Condu	ictor						0	5De
resh	Water	7"	LS	17#	639'	639'	Cement to surface	6/27/
oal								
nterm	nediate							
rodu	ction	4 1/2"	J-55	10.5#	3150'	3150'	150 Sacks, CTS	
ubin	g							
iners								
ackei	rs: Kind Sizes Depths s	et						
Fe	ee(s) Paid		For Offic	ce of Oil and C ermit		lamation Fund	WPC	<u> </u>
Pl	at	WW-9	WW	7-2B	Bond	(Type) Office	Received Agent	

Page 1 of	4	1)	Date:	June 20, 201	.3	
Form WW2-A	\ 	2)	Operator's V			
(10/10)				ltz No. 246	000	
	Copy	3)	API Well N		- 033	
				State	County	Permit
	STATE OF WEST V	menus pur	EATLOFT	NUTDON	MENT	
					ATELLI	
	DIVISION OF E			ECTION		
	OFFI	CE OF OIL AN	D GAS			av
	MOTION AND ADDITION	ATTONITION A M	CII WODE	DEDMIT		CK
	NOTICE AND APPLICA	ATION FOR A W	ELL WORK	PERMIT		*
4) Surfac	e Owner(s) to be served:	5) (a)	Coal Oper	ator:		
(a) Nan		Name	NA			
Address		- Address	-			
Addies	Salem, WV 26426	-	-			
(b) Nan		(b) Co	al Owner(s)	with Declara	ation	
Addres		- Name	NA			1/4
Address	Salem, WV 26426	- Address		-		
(-) >T-	Annual Control of the	_				
(c) Nan		Name				
Addres	S	Address				****
		- Address				
A 12/2/20	0 117-1	(a) Co	ol I eccee wi	th Declaration	nn .	
6) Inspect		- Name		Run Mining	711	/
Addres		- Address		Cranberry So	illare	- V
(62-2-2	Buckhannon, WV 26201	Address		antown, WV		
Teleph	one (304) - 389-7583	_	Morga	antown, w v	20303	
of	Included is the information required of West Virginia (see page 2) certify that as required under Chapter 22 f this notice and application, a location p	of the West Virgi	nia Code I h	Rec ave served o	eived Opie Sas	4
or	n the above-named parties, by:				1	
	Personal Service (Affidavit attached)					
	Certified Mail (Postmarked postal re	eceipt attached)				
-	Publication (Notice of Publication at	tached)				
of any peri	have read and understand Chapter 22-6 a mit issued under this application. certify under penalty of law that I have polication form and all attachments, and the information, I believe that the information of the informatio	personally examine that based on my in formation is true, a	ed and am fa quiry of those ccurate, and	miliar with t se individual complete.	he informa s immedia	ation submitted tely responsible
fine and	OFFICIAL SEAL					
1 Sa	NOTARY PUBLIC STATE OF WEST VIRGINIA	Well Operator	HG Energ	y, LLC		
	TINA L. PETHTEL	D	Diana	C White	n	re CWhite
1.16	HG Energy, LLC 5260 Dupont Road	By:			Luca	e carme
1	Parkersburg, West Virginia 26101 My Commission Expires Nov. 12, 2018	Its:		untant		
Barren	10, 12, 2010	Address		Dupont Roa		
			Parke	ersburg, WV	26101	
		Telephone	(304)	420-1119		
	والمستقلا الماليات والوارات المستوال					
Subscribed	d and sworn before me this 20 day of		2013			
	2 ATTLE				1	Notary Public

My commision expires

Form WW-9 Rev. 10/10

	Page	3	of	3
API N	umber 47-	033	· •	
Operator's Well No.	J. M. F	ultz N	o. 246	

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

Operator	HG Energ	y, LLC			OP Code 494497	948
Watershed	Branch of	Lick Run	Quadrangle	Salem 7.5'	596	
Elevation _	1133'.	County,	Harrison 33	District	Ten Mile	09
Description of	anticipated Pit Waste:	Fluids encountered in	drilling shallow well.			
Do you anticip	ate more than 5,000 bb	s of water to complete th	ne proposed well work?	Yes	No X	
Will a synthet	ic liner be used in pit?	Yes	If so, what mil.?	20 Mil.		SA
Proposed Disp	osal Method For Treate					70
_	X Land Appli		G			612
-		nd Injection (UIC Permi	t Number			
-		PI Number sposal (Supply Form WW	7 Q for disposal location)			
-	Other	(Explain	-5 for disposar location)			1
Drilling modis		vell? Air, fresh water, oi	Thased etc A	ir, Fresh Water		
	[[다] 마실을 중요하다 ([[다] 다.	Synthetic, petroleum, et		.,		
Additives to be		Water, soap, KCl				
		in pit, landfill, removed	l offsite, etc. L	eave in Pit		
			will be used? Cement, lime, sa		Native soil, cement, lin	ne
	Landfill or offsite name			· ·		
I this applicatio for obtaining t penalties for s	certify under penalty or n form and all attachme he information, I believ ubmitting false informa	ents thereto and that, ba e that the information is	ally examined and am familian sed on my inquiry of those inc true, accurate and complete. bility of fine or imprisonment	dividuals immediat I am aware that th	ely responsible	
	ficial Signature	-	Diane C Whi	le		
	ficial (Typed Name)		Diane C. White		-1	
Company Of	ecial little	4	Accountant			_
Subscribed a	nd sworn before me t	ihis SO	day of James	_2013		
	Te	not le	ED .	Chiantes and a	Notary Public	
My commiss	ion expires	1700 12,2	018	STATES OF STATES	OFFICIAL SEAL NUTARY PUBLIC TATE OF WEST VIR	SINIA
Form WW-9			Accessor	Par	TINA L PETHTEL HI Finergy, LLC 5260 Bupont Road kersburg West Virginia mmissum Expires Nov.	26101

		Legend					
Property Boundary Road	<u>A A A</u> ========	Diversion Spring	21111111111111111111111111111111111111				
Existing Fence	××	Wet Spot					
Planned Fence	—/——/——/—	Drain Pipe					
Stream		Waterway					
Open Ditch	>	Cross Drain					
Rock	જુરા કુલ	Filter Strip	XXXXXXX				
		Pit: Cut Walls	Curren				
North	Ŋ	Pit: Compacted	21111111				
Buildings	THE STATE OF THE S	Fill Walls	· marrie				
Water Wells	(W)	Area of Land Application	The state of the s				
Drill Site	\oplus	of Pit Waste					
	Lime 2 Tons/Acre or Correct to pH 6.5 Fertilizer (10-20-20 or Equivalent) 500 Lbs./Acre (500 lbs. Minimum) Mulch Straw 2 Tons/Acre						
	SEE	D MIXTURES					
Seed Type Tall Fescue Ladino Clover	Area I (Location) Lbs/Ac. 40 5	Seed T Tall Fee Ladino	scue 40				
Photocopied section o	ocation, pit and proposed area for land appl of involved 7.5' topographic sheet.	iication	PROSIVED Office of off and Gas protection Office of off and Gas protection				
Plan approved by	: Sild Gas Inspector		•••				
Title	: Oil+Gas Inspector		Date: 6/27(2013				

Field Reviewed?





