

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

June 13, 2013

WELL WORK PERMIT Secondary Recovery Well

This permit, API Well Number: 47-4303464, 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: EPHRAIM GRIFFITH NO. 117

Farm Name: BENDER, JASON, . ET UX

API Well Number: 47-4303464

Permit Type: Secondary Recovery Well

Date Issued: 06/13/2013

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 20 mil thickness synthetic liner.
- 5. No land application of pit fluids.

WW-3B 10/07



Lincoln

County Clerk's Office in

Book

at Page

36

1) Date	A	pril 24, 2	013			
2) Operator's Well	No.	Ephraim Griffith No. 117				
3) API Well No.	47	4	043			
_	State		County		Permit	
4) UIC Permit No.		τ	JIC2R043	01AP		

STATE OF WEST VIRGINIA NOTICE OF LIQUID INJECTION OR WASTE DISPOSAL WELL WORK PERMIT APPLICATION FOR THE DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS

5)	WELL TYPE:		Liquio	d Injection	X		Gas Injectio	on (not stora	ige)	Was	te Disposal	l .
6)	LOCATION:		Elevation					atershed	Porter	Fork		
		District		Duval		Coun	tyLine	coln		Quadrangle	e Gri	ffithsville 7.5'
7)	WELL OPERA	TOR:	HG Ener	rgy, LLC		49449794	8 8) D	ESIGNATE	D AGENT		Mike Kirse	ch ,
				pont Road							5260 Dupo	704376040701000
			Parkersh	ourg, WV	26101						Parkersbu	rg, WV 26101
9)	OIL & GAS IN	SPECTO	OR TO BE	NOTIFIE	ED:		10)	DRILLING	CONTRAC	CTOR:		
			Ralph Tr				_		Name			
		Address		Clellan H			_		Address	3		
			Branchia	and, WV 2	5506		_					
11)	PROPOSED W	ELL WO	ORK:		X		Drill Deepe		Redril		Stimulate	
					_	old Formatio			New Forn	nation		Convert
12)	Geological targ	at farms	tion	Other	Berea	100000000000000000000000000000000000000	n Well (specify Dep		2,255	Ft. (Top) to		2,276 Ft. (Bottom
	Estimated dep			all (on note				2376'	2,233		Ft.	2,276 Ft. (Bottom)
					-			-				F 174
	Approximate w			S:	Fresh	:	150			Salt.	85	5 Ft.
	Approximate co					215		- Ft.				
	Is coal being m					Yes		X	No			
17)	Virgin reservoi	r pressu	re in targ	et formati	on:			1,250	psig.	Source		Estimated
18)	Estimated rese	rvoir fra	cture pre	ssure:		Para Company	2	2,650	psig.			
19)	MAXIMUM PR	OPOSE	D INJEC	TION OP	ERATIO	ONS: V	olume per hou	r 25 BBI	<u>. </u>	Bottom Hol	e Pressure	2,400 psi
	DETAILED ID								DDITIVES	Fresh wa	ater, produ	ced water, bactericide
	and other chem	icals as	needed to	maintain	water	quality and	improve oil re	ecovery.				
21)	FILTERS (IF A	NY)		Cartridge	filters	and/or coal	bed filters					
22)	SPECIFICATION	ON FOR	CATHOI	DIC PROT	ECTIC	ON AND OT	HER CORRO	SION CONT	rrol			
23)	CASING AND	TIDING	2 DDOCD	ΛM.								
		TODING										
	NG OR	G:		FICATION		[TY]	FOOTAGE I	CONTRACTOR OF ALL PROPERTY OF		CEMENT		PACKERS
	NG TYPE	Size	Grade	Weight	New	Used	For Drilling	Left 1	n Well	OR SACKS	(CU. FT.)	
Condu	Water	7"	L.S.	17#	X		315'	31	51	Cement to	Surface	Kinds Tension
Coal	Water	-	Д.б.	1111	Λ		010	51	-	Cement to		Figos
	nediate										uce	2.875" x 4.5"
Produ		4 1/2"	J-55	10.5#	X		2376'	23	76'	150 sacks		Depths Set
Fubin	g	2 3/8"	J-55	4.6#	X		2075'	20'	75'		MAY 10	1975'
Liners											MATTO	Perforations
												Top Bottom
											fice of Oil a	nd Gas
										ALA Debt (21 Environm	Ental Protection
4)	APPLICANTS	OPERA'					Ephraim &	Nance Grif	fith			
	by Deed		Lease	X		ther Contrac	-	_Dated		8, 1904		of record in the
			Lincoln		Count	v Clerk's Of	fice in		Book	36	at Page	06/14/2013

WW-3A 10/07



1) Date:		April 24, 2	2013	
2) Operator's We	ell No.	Ephraim (Griffit!	h No. 117
3) API Well No.	47	043		03464
	State	County		Permit
4) IIIC Permit N	0	IIIC2R049	ROLAP	

STATE OF WEST VIRGINIA
NOTICE OF LIQUID INJECTION OR WASTE DISPOSAL WELL WORK PERMIT APPLICATION
FOR THE DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS

5) Surface Owner	(s) To Be Served	7 (a) Coal Operator	
(a) Name	Jason & Ashley Bender	Name	NA
Address	Rt. 1, Box 92B	Address	
_	Chapmanville, WV 25508		
(b) Name	Andy & Rebecca McClure	7 (b) Coal Owner(s)	With Declaration Of Record
Address	109 Coon Whistle Hollow	Name	NA
_	Yawkey, WV 25573	Address	
(c) Name	Jackie Stowers		
Address	4818 Midway Road	Name	
	Yawkey, WV 25573	Address	
-		х	
6) Inspector	Ralph Triplett	7(c) Coal Lessee Wi	th Declaration Of Record
Address	5539 McClellan Hwy		NA
	Branchland, WV 25506		
Telephone	389-0350		
 The Applica sets out the The plat (su The Construction 	ON(S) NAMED ABOVE: You should have tion for a Liquid Injection or Waste Disposal W parties involved in the drilling or other work; rveyor's map) showing the well location on Fornaction and Reclamation Plan on Form WW-9 (up to the plan for exercise and sediment central and the plan for exercise and the	ell Work Permit on m WW-6; and aless the well work	n Form WW-3(B), which
(1) The Applica sets out the (2) The plat (su (3) The Construment which sets on the date propose THE REASON YOUTHICH ARE SUMARE NOT REQUITED The control of	tion for a Liquid Injection or Waste Disposal W parties involved in the drilling or other work; rveyor's map) showing the well location on Foraction and Reclamation Plan on Form WW-9 (untit the plan for erosion and sediment control and ed for the first injection or waste disposal is U RECEIVED THESE DOCUMENTS IS THAT YOU IMARIZED IN THE "INSTRUCTIONS" ON FORM WED TO TAKE ANY ACTION AT ALL. er Chapter 22-6 of the West Virginia Code, the undersigned mpanying documents for a Well Work Permit with the Chief	m WW-6; and hless the well work d for reclamation to To be determined WHAVE RIGHTS RI WW-3(A) DESIGNAT	a is only to plug a well), for the site and access road. d EGARDING THE APPLICATION TED TO YOU. HOWEVER YOU s to file or has filed this Notice and ad Gas, West Virginia Department of
(1) The Applica sets out the (2) The plat (su (3) The Construent which sets of the date propose THE REASON YOWHICH ARE SUMARE NOT REQUITED The control of th	tion for a Liquid Injection or Waste Disposal W parties involved in the drilling or other work; rveyor's map) showing the well location on Form action and Reclamation Plan on Form WW-9 (until the plan for erosion and sediment control and ed for the first injection or waste disposal is U RECEIVED THESE DOCUMENTS IS THAT YOU MARIZED IN THE "INSTRUCTIONS" ON FORM VRED TO TAKE ANY ACTION AT ALL. The Chapter 22-6 of the West Virginia Code, the undersigned impanying documents for a Well Work Permit with the Chief cition, with respect to a well at the location described on the Notice, the Application, the plat, and the Construction and derend by hand to the person(s) named above (or by publication).	m WW-6; and colors the well work do for reclamation to the determined WHAVE RIGHTS RIWW-3(A) DESIGNATION of the Office of Oil and attached Application at Reclamation Plan have	a Form WW-3(B), which is is only to plug a well), for the site and access road. d EGARDING THE APPLICATION TED TO YOU. HOWEVER YOU s to file or has filed this Notice and ad Gas, West Virginia Department of and depicted on the attached Form be been mailed by registered or
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(1) The Applica sets out the (2) The plat (su (3) The Construe which sets of the date propose. The REASON YOWHICH ARE SUMARE NOT REQUITED Take notice that und Application and according to the serified mail or deliverable or delivery to the condition of the cond	tion for a Liquid Injection or Waste Disposal W parties involved in the drilling or other work; rveyor's map) showing the well location on Form ection and Reclamation Plan on Form WW-9 (un ut the plan for erosion and sediment control and ed for the first injection or waste disposal is U RECEIVED THESE DOCUMENTS IS THAT YOU MARIZED IN THE "INSTRUCTIONS" ON FORM VERED TO TAKE ANY ACTION AT ALL. Her Chapter 22-6 of the West Virginia Code, the undersigned impanying documents for a Well Work Permit with the Chiection, with respect to a well at the location described on the Notice, the Application, the plat, and the Construction and vered by hand to the person(s) named above (or by publication the Chief. The person signing this document shall make the stay of law that I have personally examined and am formation submitted in this document and all attachments by inquiry of those individuals immediately responsible	m WW-6; and colless the well work do for reclamation to the determined with the determined with the determined well operator propose of of the Office of Oil and attached Application at Reclamation Plan have ion in certain circumstated following certification well Operator	a is only to plug a well), for the site and access road. d EGARDING THE APPLICATION FED TO YOU. HOWEVER YOU s to file or has filed this Notice and ad Gas, West Virginia Department of and depicted on the attached Form the been mailed by registered or unces) on or before the day of the HG Energy, LLC 1260 Dupont Road

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 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, please contact DEP's Chief Privacy Officer at:

depprivacyofficer@wv.gov

Signature

WW-2B1

Well No. Ephraim Griffith No. 117

West Virginia Department of Environmental Protection Office of Oil and Gas

NOTICE TO SURFACE OWNERS

The well operator named below is preparing to file for a permit from the state to drill a new well. Before a well work permit can be filed with the Chief of the Office of Oil and Gas, the well operator is required to have given notice of the right to request water well or spring analytical testing. This notice shall be given to the owners or occupants of land which have a water well or spring being utilized for human consumption, domestic animals, or other general use and which is located within 1000 feet of the proposed well site.

With this form, the operator is giving you notice of your right to request analytical testing, The operator is required to sample and analyze the water wells or springs of all owners or occupants who request it. Therefore if you wish to have your water well or spring tested, contact the operator named below.

All sampling shall be completed prior to drilling. Within thirty (30) days of the receipt of such sample analyses the operator shall submit the results to the Chief of the Office of Oil and Gas and to the owners or occupants who may have requested them.

If no water well or spring is located within 1000 feet, the Chief may require the operator to sample and analyze water from a water well or spring within 2000 feet of the proposed well site.

Be advised, you have the right to sample and analyze any water supply at your own expense.

The laboratory used by the operator to analyze the samples will be approved by the Chief. The operator named below has decided to use the following laboratory to analyze the water samples:

X Contractor Nam	e Sturm Environmental Services
Well operator's	private laboratory
Well Operator	HG Energy, LLC
Address	5260 Dupont Road
	Parkersburg, WV 26101
Telephone	304-420-1119

FOR OPERATOR'S USE ONLY: Below, or on an attached page, list those persons which were given this notice. Place an asterisk beside the one(s) that contacted you and requested sampling and analyses. If there were no requests made, indicate by underlining which one you have selected to sample and analyze. If there are no water wells or springs within 1000 feet of the proposed site please indicate such.

Received

Special Note:

Water sampling was completed through out the Griffithsville area for the UIC permit review late in 2012. (Per Jamie Peterson, WVDEP, the timing of that large UIC sampling was sufficent for this Griffithsville project.

Office of Oil and Gas
WV Dept. of Environmental Protection

Form WW-9 Rev. 10/94

	Page	3	of	3
API	Number 47-	043	-	
Operator's Well No.	Ephraim	Griffitl	1 No. 1	17

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

Watershed	HG Energy, LLC		0	P Code 49449	7948
watersned	Porter Fork		Quadrangle	Griffithsville 7.5	385
Elevation	785' . Cou	inty . Lincoln . 43	District	Duval .	02
Description of an	ticipated Pit Waste: Fluids	encountered in drilling shallow	w well.		
Do you anticipate	more than 5,000 bbls of water	to complete the proposed well wor	k Yes	No X	
Will a synthetic l	iner be used in pit?	Yes If so, what mil.?	10 Mil. 20 Mil	L. Welling	
Proposed Disposa	al Method For Treated Pit Wast	es:		10,5	
	X Land Application				
	✓ Underground Injection	on (UIC Permit Number)
	Reuse (at API Numb)
-		pply Form WW-9 for disposal locat	cion)		116
-	Other (Expla)
	anticipated for this well? Air, f		Fresh Water		
	oilbased, what type? Synthetic,				
Additives to be us					
	posal method? Leave in pit, lan	what medium will be used? Cemen	t lime conduct N	Jatima sail sament	limo
	andfill or offsite name/permit nu		t, fille, sawdust 1	vative son, cement,	пше
	as of the normit are enforceable			ital Protection. I unde	
applicable law or I ce this application f for obtaining the	regulation can lead to enforcementify under penalty of law that lorm and all attachments thereto information, I believe that the i	by law. Violations of any term or o	condition of the geno n familiar with the i those individuals ir omplete. I am awar	eral permit and/or otl information submitte nmediately responsib	her d on ble
applicable law or I ce this application f for obtaining the	regulation can lead to enforcementify under penalty of law that lorm and all attachments thereto information, I believe that the imitting false information, include	by law. Violations of any term or onent action. I have personally examined and anound and that, based on my inquiry of information is true, accurate and co	condition of the gene of familiar with the i those individuals ir complete. I am awar sonment.	eral permit and/or otl information submitte nmediately responsib	her d on ble
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WW9.Bark

Legend

	v v	1	_		l
Road		Spring	<u>O</u> -	>	
Existing Fence	—x——x——	Wet Spot		_	
Planned Fence	// /	Drain Pipe	<u> </u>	2)	
Stream		Waterway	\longleftrightarrow	\leftarrow	
Open Ditch	>	Cross Drain	777777		
Rock	\$2.50 \$2.50	Filter Strip	XXXXX	XXXXX	
	,	Pit: Cut Walls			
North	N		سندر	11	
. , Buildings		Pit: Compacted Fill Walls	-	\rightarrow	
Water Wells	w w	Area of Land	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
Drill Site	$\stackrel{\smile}{\oplus}$	Application	12.77		
		of Pit Waste			J
		*			
n In	Area ent: Acres Disturbed Approx.		evegetation pH		
Proposed Revegetation Treatm	Area				
	Approx.	1.0 Ac.			
Lime	2 Tons/Acre or Co	orrect to pH 6.5	lha Minimum)		
	rer (10-20-20 or Equivalent) 500 Straw 2 Tons/Ac		105. Ivilimidin	•	
Mulch	Straw 2 Tons/Ac				
•	SEED MID	KTURES			
Area	I (Location)	_	Area II (Road)	_	
Seed Type	Lbs/Ac.	Seed Type		Lbs/Ac.	
Tall Fescue	40	Tall Fescue		<u>40</u> 5	
Ladino Clover	5	Ladino Clover			
	<u> </u>		Poo		
Attach:			Rece	ived	
Drawing(s) of road, location, p Photocopied section of involv	pit and proposed area for land application	1	MAV .		
Photocopied scotton of involv	ou 1.5 topograpino situati		MAI 10	2013	•
Plan approved by: Ras	and Dominal		Office of Office		
Comments:	7010. J. Option		WV Dept. of Environme	iu Gas ental Protection	
Commens.	3				
Title:	trut Inspected.		Date: May 2	2013	
	11 / Vac	()	No /	06/14/20	112
Field Reviewed?	(/) 153	\ ,		UO/ 14/2U	/IO





