

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

September 09, 2014

WELL WORK PERMIT

Vertical Well

This permit, API Well Number: 47-4303472, 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 easing. 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

Operator's Well No: EPHRAIM GRIFFITH NO. 215

Farm Name: BENDER, JASON ET. UX.

API Well Number: 47-4303472 Permit Type: Vertical Well

Date Issued: 09/09/2014

4303472

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. <u>Failure to adhere to the specified permit conditions may result in enforcement action.</u>

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 with 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.
- 8. Operator shall provide the Office of Oil & Gas notification of the date that drilling commenced on this well. Such notice shall be provided by sending an email to DEPOOGNotify@wv.gov within 30 days of commencement of drilling.

FORM WW-2B

		5034	4 72	
Page	3	of	4	

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

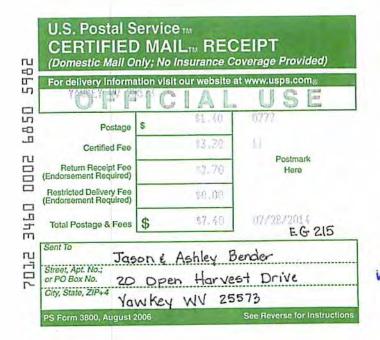
1)	Well Operate	or: HG	Energy, LLC		<u></u>		
2)	Operator's W	ell Number:	Ephraim	Griffith No.	215	3) Elevation	on <u>887'</u>
4)	Well Type:	(a) Oil	X or	Gas			
		(b) If Gas:	Proc	iuction	Undergre	ound Storage	
5)	Proposed Ta	rget Formatio	on(s):	Berea			
6)	Proposed To	tal Depth:	TVD 2470'	ft.			
7)	Approximate	fresh water	strata depths:		245'		
8)	Approximate	e salt water de	epths:		950'		
9)	Approximate	e coal seam de	epths:		310'	-	
10)	Does land co	ntain coal se	ams tributary	to active min	e? Yes	No	X
11)	Proposed We	ell Work:	Drill and	l stimulate pro	oduction well in B		
-	_						
12)			CAS	SING AND T	UBING PROGRA	<u>\M</u>	
TYPE	<u> </u>	SPE	CIFICATIO	NS	FOOTAGE I	NTERVALS	CEMENT
		Size	Grade	Weight Per Ft.	For Drilling	Left in Well	Fill-up (Cu. Ft.)
Cond	uctor				<u> </u>		
Fresh	Water	7"	LS	17#	410'	410'	Cement to surface
Coal							POT 131
Intern	nediate						1 31
Produ	ction	4 1/2"	J-55	10.5#	2470'	2470'	150 Sacks
Tubin	g						
Liner	S						
Packe	ers: Kind Sizes Depths s	set					
F	ee(s) Paid		For Offi Well Work F		Gas Use Only	lamation Fund	WPCP
P	lat	ww-9	ww	7-2B	Bond	(Type)	Agent

Page 1 of	4
Form WW2-A	
(10/10)	
	Copy

1)	Date: Ju	ly 25, 201	4			
2)	Operator's Well	Number				
	Ephraim Gri	ffith No. 2	15	المراجعة المراجعة		
3)	API Well No:	47	4	043) ÷	
=-6		State		County		Permit

STATE OF WEST VIRGINIA - BUREAU OF ENVIRONMENT DIVISION OF ENVIRONMENTAL PROTECTION OFFICE OF OIL AND GAS

		NOTICE AND APPLICA	ATION F	OR A WE	LL WORK PERMIT		
)	Surface C	Owner(s) to be served:	5)		Coal Operator:		
	(a) Name	Jason & Ashley Bender	_	Name	NA		
	Address	20 Open Harvest Drive Yawkey, WV 25573	_	Address			
	(b) Name		÷	(b) Coa	Owner(s) with Decla	ration	
	Address			Name			
	247777777			Address			
	(c) Name		_	No. am			
	Address		-	Name Address			
	-		_				
)	Inspector	Ralph Triplett			Lessee with Declarat	ion	
	Address	5539 McClellan Highway		Name	NA		
	-	Branchland, WV 25506	_	Address			
	Telephone	2 (304) - 389-0350	-		VI. 190 0 0 10 5 17 1		
		TO THE PERSON(S) NAMED	ABOVE	TAKE N	OTICE THAT:		
		Included is the lease or leases or oth	er contin	uing contr	act or contracts by wh	rich I hold	
		the right to extract oil and gas O	R				
	X	Included is the information required of West Virginia (see page 2)	by Chap	ter 22, Ar	ticle 6, Section 8(a) of	the Code	
	Comm	tify that as required under Chapter 22	of the W	est Virgin	ia Code I have served	copies	
	of th	is notice and application, a location p	lat, and a	ccompany	ing documents pages	1 through - 4	payric
		ne above-named parties, by:	21104 (1997)	24200		1100	BIVOU
		Personal Service (Affidavit attached)				9104	0. (5)14
	X	Certified Mail (Postmarked postal re	eceipt atta	iched)		AUG	8 2014
		Publication (Notice of Publication at	tached)				
	I hav	ve read and understand Chapter 22-6	nd 38 CS	SR 11-18,	and I agree to the term	is and conditions	Oil and Gas
ofa	any permit	issued under this application.	47		1	the information	cubmitted
	I cer	tify under penalty of law that I have parties form and all attachments, and the	ersonally	on my ind	and am rammar with	als immediately r	esponsible
or	abtaining	the information. I believe that the int	ormation	is frue, ac	curate, and complete.		
	I am	aware that there are significant penal	ties for s	ubmitting	false information, incl	luding the possibi	ility of
ĩn	e and impi	risonment.					
			Well	Operator	HG Energy, LLC		100
			By:		Diane C White	Diane CW	hite
			Its:		Accountant		
			Addre	SS	5260 Dupont Ro	oad	
					Parkersburg, W	V 26101	
			Telepl	none	(304) 420-1119		
Sui	hecribed a	nd sworn before me this 35 day of	14	12014			
Su	osciloca a	nd swom before the this	1 P -2	1 400		OFFICIA QUE	Z PHINNES
_		1115712	0	6	The state of the s	NOTARY PURI	C \$
My	commisi	on expires	,201	7	一 雅 是目	STATE OF WEST VIE	RGINIA \$
		4	Co.			HG Energy LLC	2/201
					Pa My C	HG Energy, LLC 5260 Dupol Q Young rkersburg, West Virginia ommission Expires Nov	26101
					***************************************	L Khires Nov	12, 2018



Form	WW-2A(1)
(10/10))

One	erator's	Well	No

Ephraim Griffith No. 215

INFORMATION SUPPLIED UNDER WEST VIRGINIA CODE Chapter 22, Article 6, Section 8(d) IN LIEU OF FILING LEASE(S) AND OTHER CONTINUING CONTRACT(S)

Under the oath required to make the verification on page 1 of this Notice and Application, I depose and say that I am the person who signed the Notice and Application for the Applicant, and that --

- (1) the tract of land is the same tract described in this Application, partly or wholly depicted in the accompanying plat, and described in the Construction and Reclamation Plan;
- (2) the parties and recordation data (if recorded) for lease(s) or other continuing contract(s) by which the Applicant claims the right to extract, produce or market the oil or gas are as follows:

Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book/Page
Ehraim & Nance Griffith	Penzoil Company	1/8	36/81

Merger and Conveyance dated July 3, 1963, from South Penn Oil Company to Penzoil Company, Kanawha County, Book 153, Page 35,

Assignment, Conveyance and Bill of Sale dated December 28, 1998, from Pennzoil Company to Pennz Energy Exploration and Production, Wetzel County, Book 12, Page 177.

Certificate of Merger filed with the WV Secretary of State, December 31, 1999, whereby Pennz Energy Exploration and Production, successor in interest to; to Penzoil Company, merged with Devon Energy Production Company, LP, Wetzel County, Book 12, Page 278.

Deed, Assignment and Bill of Sale dated June 1, 2000, from Devon Energy Production Company, LP to East Resources, Inc., recorded in Wetzel County, Book 370, Page 580.

Assignment, Conveyance and Bill of Sale, dated January 1, 2011, from East Resources, Inc., to HG Energy, LLC, Wetzel County, Book 118A, Page 253.

Upon information and belief, Operator's lease and/or other real property rights permit it to conduct drilling operations for the subject well in the location shown on the plat, including the use of access roads, pipelines and utilities.

Acknowledgement of Possible Permitting/Approval In Addition to the Office of Oil and Gas

Received

The permit applicant for the proposed well work addressed in this application hereby ackowledges the possibility of the need for permits and/or approvals from local, state or federal entities in addition to the DEP, Office of Oil and Gas, including but not limited to the following:

Office of Oil and Gas
WV Dept. of Environmental Protection

WV Division of Water and Waste Management WV Division of Natural Resources WV Division of Highways U.S. Army Corps of Engineers US Fish and Wildlife Service County Floodplain Coordinator FORM WW2-B1 Ephraim Griffith No. 215

West Virginia Division 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 indicates such.

Edward & Janet Price 4850 Midway Road Yawkey, WV 25573 Wanda Dean Bird 1400 Bedford Road Charleston, WV 25314 Matthew D & Jessica Pauley 5710 Maccorkle Avenue SE Charleston, WV 25304

Jackie & Sandra Stowers 4818 Midway Road Yawkey, WV 25573 Jason & Ashley Bender 20 Open Harvest Drive Yawkey, WV 25573 Received

AUG 8 2014

Form WW-9 Rev. 10/10

	Page	3	of		3
API	Number 47-	043			
Operator's Well No.	Ephraim	Griffith	No. 2	215	

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 49449	7948
Watershed	Porter Fo	·k		Quadrangle	Griffithsville 7	.5' 385
Elevation	887'	County	Lincoln 43	District	Duval	02
Do you anticipa Will a synthetic	te more than 5,000 bb liner be used in pit? aal Method For Treate Land Appli	ls of water to comple Ye d Pit Wastes: cation		Yes 20 Mil.	No_X_	
-	Reuse (at A	id Injection (UIC Per PI Number	rmit Number			7
	Off Site Dis	sposal (Supply Form	WW-9 for disposal location)			
m	X Other	-	Fluids to be transported to offsite dis		# 2D03902210))
- If	anticipated for this oilbased, what type?	Synthetic, petroleun		ir, Fresh Water		
Additives to be	sposal method? Leav	Water, soap, KCl	oved offsite etc. I	eave in Pit		_
- 11		solidify, what mediu	ım will be used? Cement, lime,		Native soil, cement, l	ime
for obtaining the	information, I believ mitting false informs	e that the information	t, based on my inquiry of those is on is true, accurate and complet ossibility of fine or imprisonmental Diame C Who	e. I am aware that nt.	there are significant	eived
	ial (Typed Name)	-	Diane C. White	, w		
Company Offic			Accountant		AUG	8 1.14
Subscribed an	l sworn before me	this 2	5 day of July	204	Office or a WV Dept. of Envir	Oit and Gá ir onmental Protection
My commissio Form WW-9	n expires	7/100	7,70%		OFFICIAL S NOTARY PL STATE OF WEST TINA L. PETI HG Energy. 5260 Dupont Parkersburg, West Vi My Commission Expire	JBLIC VIRGINIA

L	egen	ıd

) [
Property Boundary		Diversion	
Road	=========	Spring	○ →
Existing Fence	xx	Wet Spot	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
Planned Fence	///-	Drain Pipe	——————————————————————————————————————
Stream		Waterway	$\longleftrightarrow \longleftrightarrow \longleftrightarrow$
Open Ditch	>>	Cross Drain	7//////////////////////////////////////
Rock	\$36 85 8 \$36 85 8	Filter Strip	XXXXXXXXX
		Pit: Cut Walls	
North	N		
Buildings		Pit: Compacted Fill Walls	
Water Wells	w	Area of Land	
Drill Site	· ⊕	Application of Pit Waste	
		J OITH Wash	
Area I			
Proposed Revegetation Treatment: Acres Disturbed Approx. 1.0 Ac. Prevegetation pH			
Area II			
Approx. 1.0 Ac.			
	Lime 2 Tons/Acr	e or Correct to pH	6.5
	Fertilizer (10-20-20 or Equivalent)		re (500 lbs. Minimum)
	Mulch Straw 2 To	ons/Acre	
SEED MIXTURES			
	Awas V (II asstinu)		Area II (Road)
Seed Type	Area I (Location) Lbs/Ac.	Seed T	
Tall Fescue			scue 40
Ladino Clover	5 Ladino Clover 5		
			
•		•	
Attach:			
Drawing(s) of road, location, pit and proposed area for land application Photocopied section of involved 7.5' topographic sheet.			
Plan approved by: Ralph D Truplato			
Title: Westweet Anspecter Date: Geoly 31, 2014			
Field Pergraveri?: Ves No 09/12/2014			

