

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

PERMIT MODIFICATION APPROVAL

August 27, 2013

HG ENERGY, LLC 5260 DUPONT ROAD PARKERSBURG, WV 26101

Re: Permit Modification Approval for API Number 4303462 , Well #: EPHRAIM GRIFFITH NO 115
Well Site & Access Road Change

Oil and Gas Operator:

The Office of Oil and Gas has reviewed the attached permit modification for the above referenced permit. The attached modification has been approved and well work may begin. Please be reminded that the oil and gas inspector is to be notified twenty-four (24) hours before permitted well work is commenced.

Please call James Martin at 304-926-0499, extension 1654 if you have any questions.

Sincerely,

Gene Smith

Regulatory/Compliance Manager

g. No m

Office of Oil and Gas



HG Energy, LLC 5260 Dupont Road Parkersburg, WV 26101 (304) 420-1100 - Office (304) 863-3172 - Fax

July 2, 2013

Mr. Jeff McLaughlin WVDEP Division of Oil & Gas 601 57th Street Charleston, West Virginia 25304 PDT 01/07/13

RE:

Ephraim Griffith No. 115 – Revised (API # 47-043-3462)

Duval District, Lincoln County

West Virginia

Dear Mr. McLaughlin:

HG Energy is requesting a revision for the Ephraim Griffith 115 well permit. The land owner requested a change in the access route to the well site; offering HG the use of his road to eliminate the need for an additional new road on his property. The mutually agreed upon revision affects the route to the well and also changes the site of the well by about 65 feet as reflected on the reclamation plan and the plat.

Enclosed are Forms WW-3A, WW-3B, WW-9, WW-3(B1), Mylar of plat, reclamation plan and topo map for the revision. If you need further information please let me know.

Very truly yours,

Diane CWhite

Diane C. White

Enclosures

cc: Jason & Ashley Bender - Certified

Ralph Triplett - Inspector

Received

AUG 1 2 2013

Office of Oil and Gas WV Dept. of Environmental Protection WW-3A 10/07

5) Surface Owner(s) To Be Served

(a) Name

Address

Name

Jason & Ashley Bender

20 Open Harvest Drive

Yawkey, WV 25573



1) Date:		July 2, 20	13	
2) Operator's We	ll No.	Ephraim (Griffith	No. 115 - Rev
3) API Well No.	47	043		3462
	State	County		Permit
4) UIC Permit N	0.	UIC2R043	301AP	

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

7 (a) Coal Operator

Name

7 (b) Coal Owner(s) With Declaration Of Record

Address

	Address		Name	NA		
			Address			
	(c) Name					
	Address		Name			
			Address			
6)	Inspector	Ralph Triplett	7(a) Coal Lassas W	ith Declaration Of Record		
0)	Address	5539 McClellan Hwy	(c) Coar Lessee w	NA		
	Address	Branchland, WV 25506	-	1471		
	Telephone	389-0350		-		
	_					
TO	THE PERSO	ON(S) NAMED ABOVE: You should have	received this fo	orm and the following documents:		
(1)	The Applica	tion for a Liquid Injection or Waste Disposal W	ell Work Permit	on Form WW-3(B), which		
	sets out the	parties involved in the drilling or other work;				
(2)	The plat (su	rveyor's map) showing the well location on Form	m WW-6; and			
(3)	The Constru	action and Reclamation Plan on Form WW-9 (un	nless the well wor	k is only to plug a well),		
		ut the plan for erosion and sediment control an				
		ed for the first injection or waste disposal is	To be determine	The state of the s		
		U RECEIVED THESE DOCUMENTS IS THAT YOU				
Contract of the contract of th		U RECEIVED THESE DOCUMENTS IS THAT YOU IMARIZED IN THE "INSTRUCTIONS" ON FORM V				
		RED TO TAKE ANY ACTION AT ALL.	W-5(A) DESIGNA	TED TO TOO. HOWEVER TOO		
AILE	NOI REQUI	RED TO TAKE ANT ACTION AT ALL.				
Applic Enviro WW-6 certifi	eation and accor onmental Prote . Copies of this	er Chapter 22-6 of the West Virginia Code, the undersigned impanying documents for a Well Work Permit with the Chie ction, with respect to a well at the location described on the Notice, the Application, the plat, and the Construction and ered by hand to the person(s) named above (or by publication the Chief.	f of the Office of Oil an attached Application Reclamation Plan hav	nd Gas, West Virginia Department of and depicted on the attached Form we been mailed by registered or ances) on or before the day of the		
		The person signing this document shall make the	following certification	HG Energy, LLC 5260 Dupont Road Parkersburg, WV 261045.		
"I cert	ify under nepal	ity of law that I have personally examined and am	Well Operator	HG Energy, LLC		
		ormation submitted in this document and all attachments	Address	5260 Dupont Road Office Chinoniii		
		y inquiry of those individuals immediately responsible	2211112000	Parkersburg, WV 26101		
		rmation, I believe that the information is true, accurate		MADER		
		ware that there are significant penalties for submitting	By:	Diane C. White		
		luding the possibility of fine and imprisonment."	Its:	Accountant		
		A TANK TO A STATE OF THE STATE				
			Signature	Diane White		
Oil an	d Gas Privacy I	Notice	C. W. 101-134	,		
The ()	ffice of Oil and	Gas processes your personal information, such as name, ad	dress and phone num	ber, 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. If you

have any questions about our use of your personal information, please contact DEP's Chief Privacy Officer at:

09/06/2013

depprivacyofficer@wv.gov

WW-3B 10/07



1) Date		J	uly 2, 201	13	
2) Operator's Well	No.	F	Ephraim C	Griffitl	n No. 115 - Re
3) API Well No.	47	-	043		3462
-	State		County		Permit
4) UIC Permit No		τ	ЛС2R043	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) WEL	LL TYPE:	Liquid	l Injection	X		Gas Injectio	n (not s	torage)		Wast	e Disposal		
6) LOC	CATION:	Elevation	972'			Wa	itershed	ł	Porter	Fork			
	Distric	t	Duval	02	County	Line	coln	43		Quadrangle	Gri	ffithsville 7.	5' '38'
7) WEL	LL OPERATOR:	HG Ener	gy, LLC		494497948	8) DI	ESIGN	ATED A	AGENT:	1	Mike Kirsc	h	
	5260 Dupont Road									- (5260 Dupo	nt Road	
		Parkersb	ourg, WV 2	6101							Parkersbu	rg, WV 2610	1
) OIL	& GAS INSPECT	OR TO BE	NOTIFIE	D;		10) I	DRILLI	NG CC	NTRAC	TOR:			
		e Ralph Tr	A.5 La.5 H. I.			_			Name				
	Addres	s 5539 Mc							Address				
		Branchla	nd, WV 2	5506						-			
1) PRO	POSED WELL W	ORK:	Drill			Drill Deepe	V		Redrill		Stimulate		
					ld Formation			rate Ne	w Form	nation Convert			
			Other	Physica	al Change in	Well (specify	")	-				W 22	
	ogical target form	-		Berea		Dept	-		,442	Ft. (Top) to		2,463 Ft.	(Bottom)
3) Estir	mated depth of co	mpleted we	ell (or actu	al dept	h of existing	well)	2563'				Pt.		
4) Appr	roximate water st	rata depths	3:	Fresh		350	Ft.			Salt	1,04	2 Ft.	
5) Appr	roximate coal sear	n depths:			400		Ft.						
6) Is coa	al being mined in	the area?			Yes			X	No				
7) Virgi	in reservoir press	ure in targ	et formati	on:		1	1,250		psig.	Source		Estimated	
8) Estir	mated reservoir fr	acture pres	ssure:			2	2,650		psig.	_			0
	KIMUM PROPOSI			ים אידור	NC. Vol		ume per hour 25 BBL Bottom Hole Pressure 2,400 psi						
M. Carrier							-		-			-	o psi
	AILED IDENTIF				TIVES	Fresh wa	ter, produ	ced water, b	4/9				
	TERS (IF ANY)	o necueu re			and/or coal h	THE SECRET IT					1 5	12	50/3
			TON O	O MIND				3112					
2) SPE	CIFICATION FOI	ER CORROS	SION C	ONTRO)Li	-		No.	u and Gas				
O GAG	ING AND BUILDIN	a ppoar	ADA									10 001	Oil a Butter
3) CASI	ING AND TUBIN	G PROGR	AIVI									Office	1/10.
CASING C	OR	SPECII	FICATION	IS		FOOTAGE INTERVALS				CEMENT FILLUP	Office of Oil and Gas Office of Oil and		
UBING T	TYPE Size	Grade	Weight	New	Used F	or Drilling	L	eft in V	Vell	OR SACKS	(CU, FT.)		
onductor												Kinds	
resh Wat	er 7"	L.S.	17#	X		500'		500'		Cement to S	Surface	Tension	21
oal							1					Sizes	1
ntermedia		7	10.54	3.7		05001	-	necoi		150 ac-1		2.375" x 4.5 Depths Set	
roduction		J-55	10.5#	X		2563'	-	2563' 2250'	_	150 sacks		2150'	
ubing iners	2 3/8"	J-55	4.6#	Х	-	2250'		2250				Perforation	g
mers												THE R. P. LEWIS CO., LANSING, MICH.	ttom
								_				тор Бо	vioni
							1						
24) APPI	LICANTS OPERA	TING RIG	HTS were	acqui	red from	Ephraim &	Nance	Griffitl	1				
,	by Deed	Lease			her Contract		Dated		June 1	8 1904		of record in	the
	Dy Deeu	Lincoln			v Clerk's Offi		-		Book		at Page	81	

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	- Company of the second
Well operator's	private laboratory	
Well Operator	HG Energy, LLC	ANG 1 "
Address	5260 Dupont Road	Po
	Parkersburg, WV 26101	Office of Commentary.
Telephone	304-420-1119	MA Debt of Employudening production Office of City start Constitution VICE OF START CONSTITUTION

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.

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.

Form WW-9 Rev. 10/94

	Page_	3	\mathbf{of}	3
AP	I Number 47-	043	-	3462
Operator's Well No.	Ephraim Gri	ffith N	o. 115 -	Rev

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		c	P Code	494497948	•
Watershed	Porter Fo	rk		Quadrangle	Griffi	thsville 7.5'	
Elevation	972'	County	Lincoln	District		Duval	<u> </u>
Description of	of anticipated Pit Waste:	Fluids encour	ntered in drilling sh	allow well.		•	<u> </u>
Do you antic	ipate more than 5,000 bbl	of water to comp	lete the proposed wel	l worl Yes	No	X	
Will a synthe	etic liner be used in pit?	Yes_	If so, what mil.?	20 Mil.			
Proposed Dis	posal Method For Treated	l Pit Wastes:					
	X Land Appli						
		nd Injection (UIC	Permit Number				<u> </u>
		API Number	rm WW-9 for disposal	location)			
	Other	sposar (Supply Fo (Explain	rm www-s tor cusposar	location)
Drilling med	ium anticipated for this w	· -	ter, oil based, etc.	Air, Fresh Water			<u> </u>
•	- If oilbased, what type?	•			· · · · ·		
Additives to	be used? Water, S	oap, KCI					
Drill cutting	s disposal method? Leave						
	- If left in pit and plan to	solidify, what me	dium will be used? Co	ement, lime, sawdust 🔟	Native so	il, cement, lime	_
	- Landfill or offsite name	permit number?					
that the provapplicable lathis application obtaining penalties for Company C	gust 1, 2005, by the Office risions of the permit are end or regulation can lead to I certify under penalty of ion form and all attachment the information, I believe submitting false informatificial Signature official (Typed Name) official Title	nforceable by law. o enforcement act law that I have p nts thereto and th	Violations of any terr ion. ersonally examined an at, based on my inqui	n or condition of the ger nd am familiar with the ry of those individuals i	eral pern informati mmediate	it and/or other ion submitted on oly responsible ere are significant.	<u>an</u>
						Office of Oil an	ental Prote
Subscribed	and sworn before me th	is 2	day of	ly 201	W\ Notary P	, ,	
My commis	sion expires		12. 2018				
Form WW-9	<u></u>		<u> </u>	***************************************	~~~~	ning.	
	,		ASI WEST	OFFICIAL NOTARY I	SEAL PUBLIC		

WW9_Back

Property Boundary

Legend

Diversion

Road		Spring	<u></u>
Existing Fence	_xx	Wet Spot	44
Planned Fence	//	Drain Pipe	
Stream -		Waterway	\longleftrightarrow
Open Ditch		Cross Drain	
Rock	300 M	Filter Strip	XXXXXXXXXX
		Pit: Cut Walls	Circuit
`North	N		Willey .
Buildings .		Pit: Compacted Fill Walls	\leftarrow
Water Wells	w		77777
Drill Site	\oplus	Area of Land Application of Pit Waste	
•	Area	T	•
Proposed Revegetation Treatme			vegetation pH
•	Area l	<u> </u>	
	Approx.	1.0 Ac.	
Lime	2 Tons/Acre or Corr	rect to pH 6.5	
•	er (10-20-20 or Equivalent) 500	Lbs./Acre (500 Il	os. Minimum)
Mulch	Straw 2 Tons/Acre	· ·	·····
	SEED MIX	TURES	
	(Location)		Area II (Road)
Seed Type Tall Fescue	Lbs/Ac. 40	Seed Type Tall Fescue	Lbs/Ac. 40
Ladino Clover	5	Ladino Clover	5
X:	***************************************		0/40
Attach:		~(
Drawing(s) of road, location, pi Photocopied section of involved	and proposed area for land application 7.5' topographic sheet.	· 00	2 10 ag again
		\	NAR J 2 JOHN BOOK FRIENDS
Plan approved by: Raly	ed. Truplett		Party Charles of 2013
Comments:			0.94
	•		M _{Do.}
Title:	eit Auspaleh	•	Date: July 7, 2013
Field Reviewed?	() Yes	(V)N	io 0 0

as-built considerations.

Note: Drawing not to Scale



