

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: 47-4303463, 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. 116

Farm Name: BENDER, JASON, ET UX

API Well Number: 47-4303463

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.

WW-3B 10/07



1) Date		A	pril 24, 2	013	
2) Operator's Wel	l No.	E	Cphraim C	riffith	No. 116
3) API Well No.	47	-	043	-	
-	State	1	County		Permit
4) UIC Permit No		I	IIC2R043	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) V	WELL TYPE:		Liqui	d Injection	ı X	_	Gas In	jection (not sto	orage)	Waste Dispos	sal
6) I	LOCATION:		Elevation	890	,	_		Watershed	Porte	r Fork	
	1	District		Duval	02	Co	ounty	Lincoln 43	,	Quadrangle G	riffithsville 7.5' 3'
7) V	WELL OPERAT	TOR:	HG Ener	rgy, LLC		49449	7948	8) DESIGNAT	TED AGEN	Γ: Mike Kir	rsch
				pont Road							pont Road
			Parkersl	ourg, WV	26101					Parkersl	ourg, WV 26101
9) C	OIL & GAS INS				ED:			10) DRILLIN	G CONTRA	CTOR:	
			Ralph To		5 m 7 m				Nam		
	A			Clellan H			_		Addres	SS	
1) D	DODOGED WE		-						2.55		
1) P	PROPOSED WE	אוריייי	JKK:	Drill		Old Form		Deeper	Redri te New Fori		
							ge in Well (s		te New Fori	nation	Convert
2) G	Geological targe	t forma	tion		Berea			Depth	2,360	Ft. (Top) to	2,381 Ft. (Botton
3) E	Estimated deptl	of com	pleted we	ell (or actu	ıal dep	th of exis	ting well)	2481'		Ft.	
4) A	approximate wa	iter stra	ata depth	9:	Fresh	1	260	Ft.		Salt 9	60 Ft.
5) A	approximate coa	al seam	depths:			320		Ft.			-
6) Is	s coal being mir	ned in t	he area?				Yes	Σ	X No		
7) V	irgin reservoir	pressu	re in targ	et formati	on:			1,250	psig.	Source	Estimated
3) E	Stimated reser	voir fra	cture pre	ssure:				2,650	psig.		
9) M	AXIMUM PRO	OPOSE	D INJEC	TION OPI	ERATI	ONS:	Volume pe	r hour 25 BI	BL	Bottom Hole Pressu	re 2,400 psi
	ETAILED IDE						****	-			luced water, bactericie
aı	nd other chemi	cals as	needed to	maintain	water	quality a	and improve	oil recovery.			
1) F.	ILTERS (IF AN	VY)		Cartridge	filters	and/or c	oal bed filte	rs			
2) S	PECIFICATIO	N FOR	CATHOL	OIC PROT	ECTIC	N AND	OTHER COI	RROSION CON	NTROL		
3) C.	ASING AND T	UBING	PROGR.	AM							
ASIN	GOR		SPECII	FICATION	JS		FOOTA	GE INTERVA	T Q	CEMENT FILLUP	PACKERS
	_	Size	Grade	Weight	New	Used	For Drilli		in Well	OR SACKS (CU. FT	
onduc	ctor										Kinds
esh V	Vater	7"	L.S.	17#	X		420'	4	20'	Cement to Surface	Tension
al											Sizes
terme	ediate										2.375" x 4.5"
oduct		1/2"	J-55	10.5#	X		2481'		481'	150 sacks	Depths Set
bing	2	3/8"	J-55	4.6#	X		2180'	2	180' 🤏		2080'
ners											Perforations
			-						-		Top Bottom
			-	-			-			Recair	100
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WW-3A 10/07

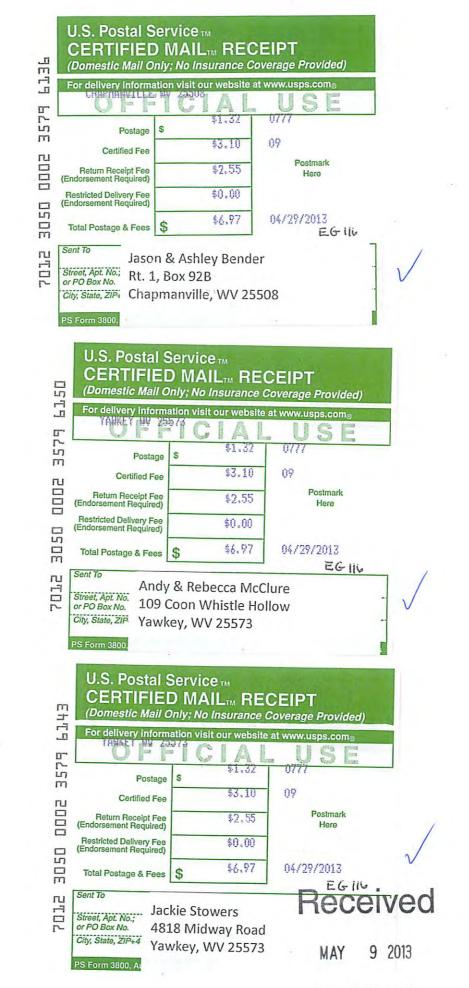


1) Date:		April 24,	2013		
2) Operator's We	ll No.	Ephraim	Griffith	No. 116	
3) API Well No.	47	043	*		
	State	County		Permit	
4) IIIC Permit N	0	UIC2R04	301AP		

STATE OF WEST VIRGINIA NOTICE OF LIQUID INJECTION OR WASTE DISPOSAL WELL WORK PERMIT APPLICATION

5) Surface Owner	Vol To Be Seward	7 (a) Coal Operator	
(a) Name	Jason & Ashley Bender	Name	NA
Address	Rt. 1, Box 92B	Address	****
Address	Chapmanville, WV 25508	1 marcos	
(b) Name	Andy & Rebecca McClure	7 (b) Coal Owner(s)	With Declaration Of Record
Address	109 Coon Whistle Hollow	Name	NA
- Iddress	Yawkey, WV 25573	Address	
(c) Name	Jackie Stowers	- Indicoo	
Address	4818 Midway Road	Name	
	Yawkey, WV 25573	Address	
-		-	
6) Inspector	Ralph Triplett	7(c) Coal Lessee W	ith Declaration Of Record
Address	5539 McClellan Hwy		NA
	Branchland, WV 25506	-	
Telephone	389-0350		
O WILL DEDG	ON(S) NAMED ABOVE: You should have		rm and the following documents
THE REASON YOUNG THE REASON YOUNG THE SUM RE NOT REQUITED TO THE REASON YOUNG THE REASON YO	ed for the first injection or waste disposal is DU RECEIVED THESE DOCUMENTS IS THAT YOU MARIZED IN THE "INSTRUCTIONS" ON FORM VERED TO TAKE ANY ACTION AT ALL. The Chapter 22-6 of the West Virginia Code, the undersigned companying documents for a Well Work Permit with the Chie ection, with respect to a well at the location described on the S Notice, the Application, the plat, and the Construction and vered by hand to the person(s) named above (or by publication the Chief.	WW-3(A) DESIGNA I well operator propose of of the Office of Oil ar a attached Application I Reclamation Plan hav	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 we been mailed by registered or
	The person signing this document shall make the	following certification	on:
Laantife undan	alty of law that I have personally examined and am	Well Operator	HG Energy, LLC
the transfer of the second	ormation submitted in this document and all attachments	Address	5260 Dupont Road
	ny inquiry of those individuals immediately responsible	- Adding ange	Parkersburg, WV 26101
	ormation, I believe that the information is true, accurate		Upo de la companya de
	ware that there are significant penalties for submitting	By:	Diane C. White
alse information, in	cluding the possibility of fine and imprisonment."	Its:	Accountable CEIVEO
Oil and Coo Brive or		Signature	Diane C White

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 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:



Well No. Ephraim Griffith No. 116

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
Well Operator 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:

WW-2B1

Water sampling was completed through out the Griffithsville area for the UIC permit review late in 2012. For 2019 Peterson, WVDEP, the timing of that large UIC sampling was sufficent for this Griffithsville project.

Office of Oll 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	Griffith	No. 110	6

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 Porter Fork Quadrangle Griffithsville 7.5' Elevation 890' County Lincoln District Duval Description of anticipated Pit Waste: Fluids encountered in drilling shallow well. Do you anticipate more than 5,000 bbls of water to complete the proposed well worl Yes No X Will a synthetic liner be used in pit? Yes If so, what mil.? 10-Mil. ZO M.L. Proposed Disposal Method For Treated Fit Wastes: X Land Application NO LAND AFFLICATION Underground Injection (UIC Permit Number Off Site Disposal (Supply Form WW-9 for disposal location) Other (Explain Other (Explain) Drilling medium anticipated for this well? Air, fresh water, oil based, etc. Air, Fresh Water If oilibased, what type? Synthetic, petroleum, etc. NA Additives to be used? Water, Song, KCI Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc. If left in pit and plan to solidify, what medium will be used? Cement, lime, sawdust Native soil, cement, lime Landfill or offsite name/permit number? I certify that I understand and agree to the terms and conditions of the GENERAL WATER POLLUTION PERMIT issued on August 1, 2005, by the Office of Oil and Gas of the West Virginia Department of Environmental Protection. I understand that the provisions of the permit are enforceable by law. Violations of any term or condition of the general permit and/or other applicable law or regulation can lead to enforcement action. I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form and all attachments thereto and that, based on my inquiry of those individuals immediately responsible for obtaining the information, including the possibility of fine or imprisonment. Company Official (Typed Name) Diane G. White Accountant My commission expires NOU. 12 2018 My commission expires NOU. 12 2018	Operator	HG Energ	gy, LLC		0	P Code	494497948
Elevation 890' County Lincoln District Duval Description of anticipated Pit Waste: Fluids encountered in drilling shallow well. Do you anticipate more than 5,000 bibs of water to complete the proposed well worl Yes No X Will a synthetic liner be used in pit? Yes If so, what mil.? 10 Mil. ZO Mil. Proposed Disposal Method For Treated Pit Wastes: A Land Application NO CAND APPLICATION Underground Injection (UIC Permit Number Reuse (at API Number Offisie Disposal (Supply Form WW-9 for disposal location) Other (Explain Other (Explain Other (Explain Other (Explain Other Other (Explain Other O	Watershed	Porter Fo	rk	1 - 1		-	
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- If oilbased, what type? Synthetic, petroleum, etc. NA Additives to be used? Water, Soap, KCI Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc. - If left in pit and plan to solidify, what medium will be used? Cement, lime, sawdust Native soil, cement, lime - Landfill or offsite name/permit number? I certify that I understand and agree to the terms and conditions of the GENERAL WATER POLLUTION PERMIT seved on August 1, 2005, by the Office of Oil and Gas of the West Virginia Department of Environmental Protection. I understand that the provisions of the permit are enforceable by law. Violations of any term or condition of the general permit and/or other pplicable law or regulation can lead to enforcement action. I certify under penalty of law that I have personally examined and am familiar with the information submitted on his application form and all attachments thereto and that, based on my inquiry of those individuals immediately responsible or obtaining the information, I believe that the information is true, accurate and complete. I am aware that there are significant enalties for submitting false information, including the possibility of fine or imprisonment. Sompany Official Signature Diane C. White Company Official Title Accountant Notary Public 2013 If you are the company Public 2013 Notary Public 2013 If you was a submission expires Notary Public 2013	-)
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Sompany Official (Typed Name) Diane C. White Accountant	ompany Officia	al Signature		Diane Chi	Phite		
ubscribed and sworn before me this 24 day of Opril 2013 Received I may 2 Public 2013 Ty commission expires Nov. 12, 2018	ompany Officia	al (Typed Name)					the same of the sa
In a LP Notary Public 2013 Ty commission expires NOV. 12, 2018	omnone Off - '-	al Title		Diane C. White			
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Ty commission expires NOV. 12, 2018	омрану Описіа		-		*		
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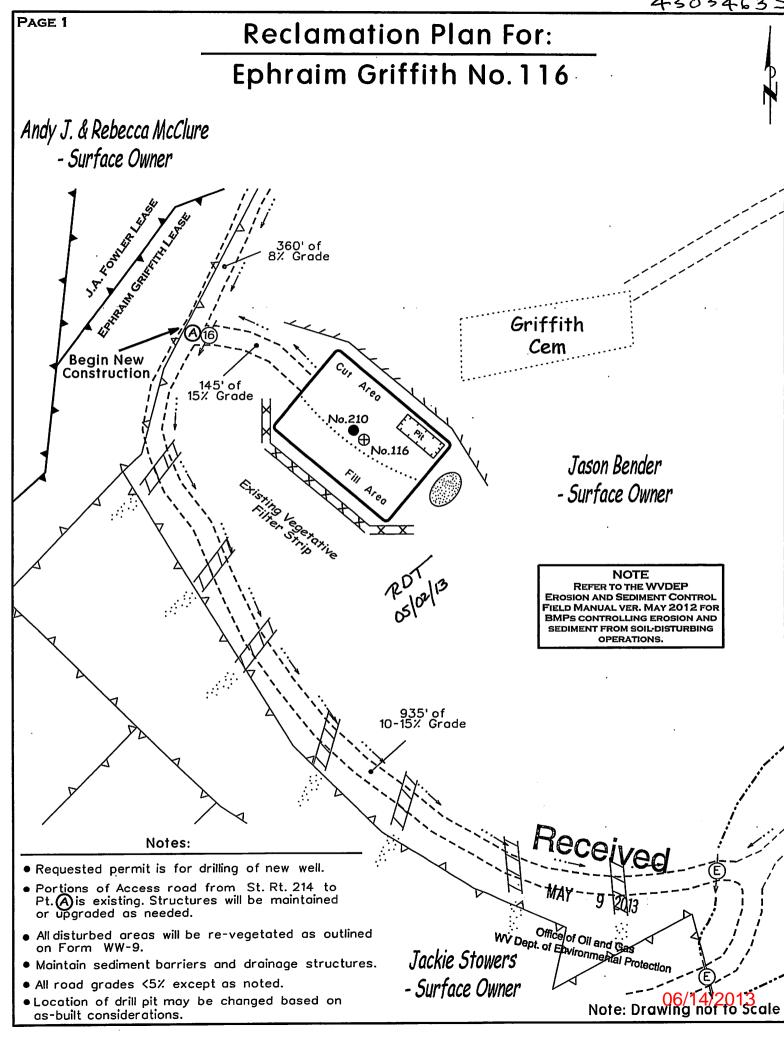
OFFICIAL SEAL
NOTARY PUBLIC
STATE OF WEST VIRGINIA
TINA L. PETHTEL
HG Energy, LLC
5260 Dupont Road
Parkersburg, West Virginia 26101
My Commission Expires Nov. 12 2010

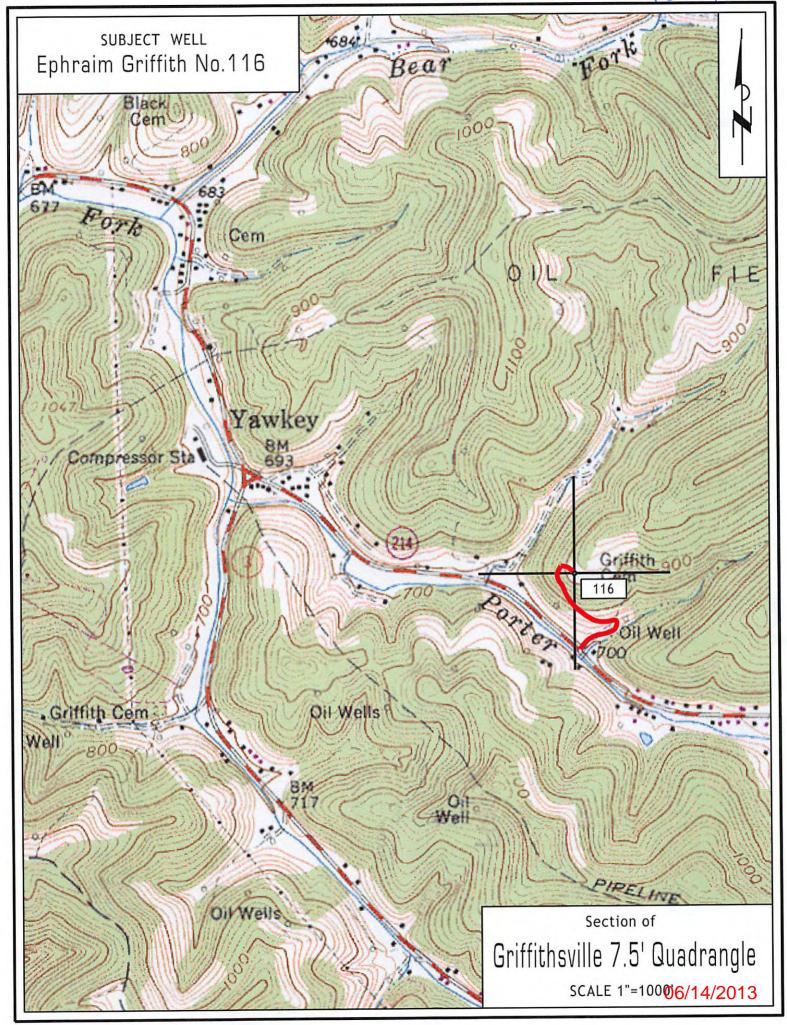
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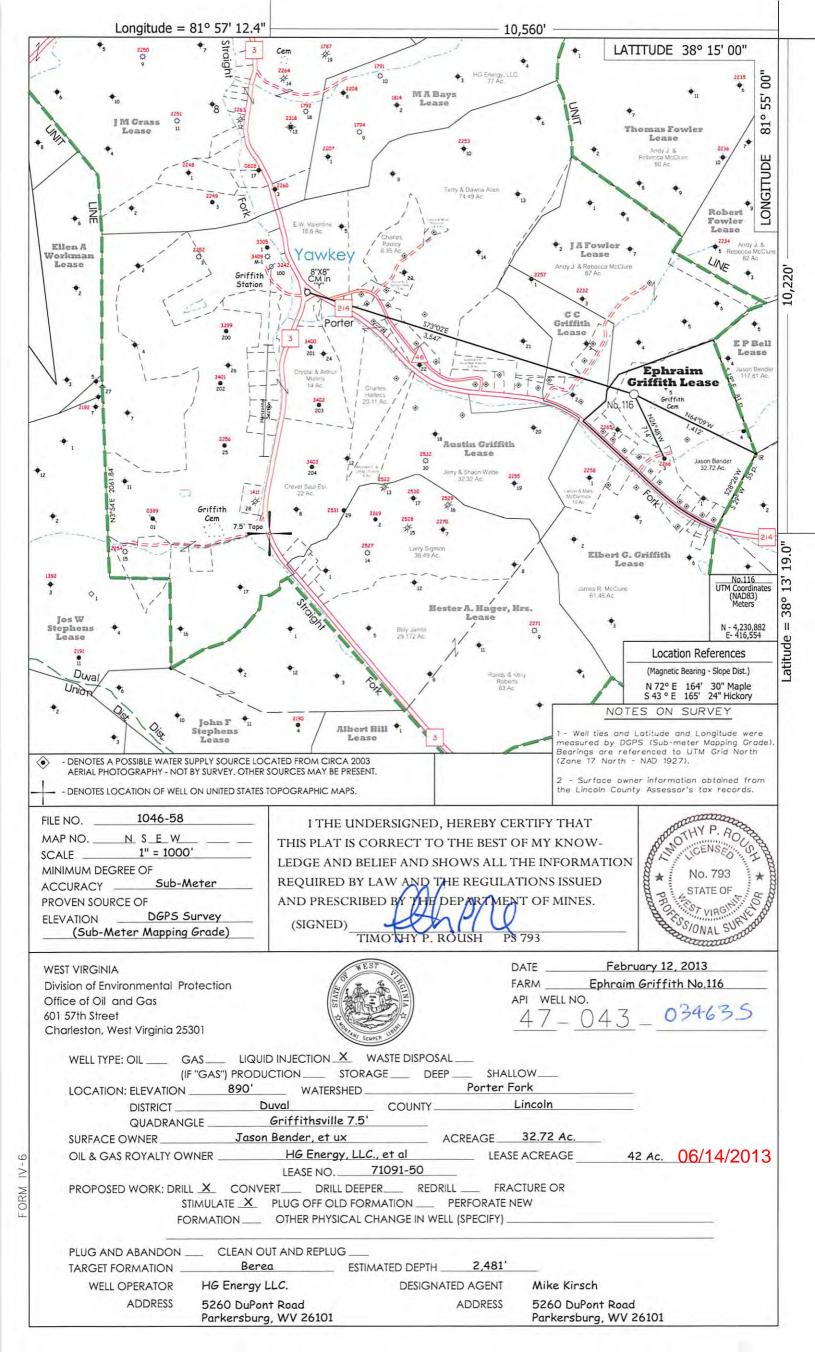
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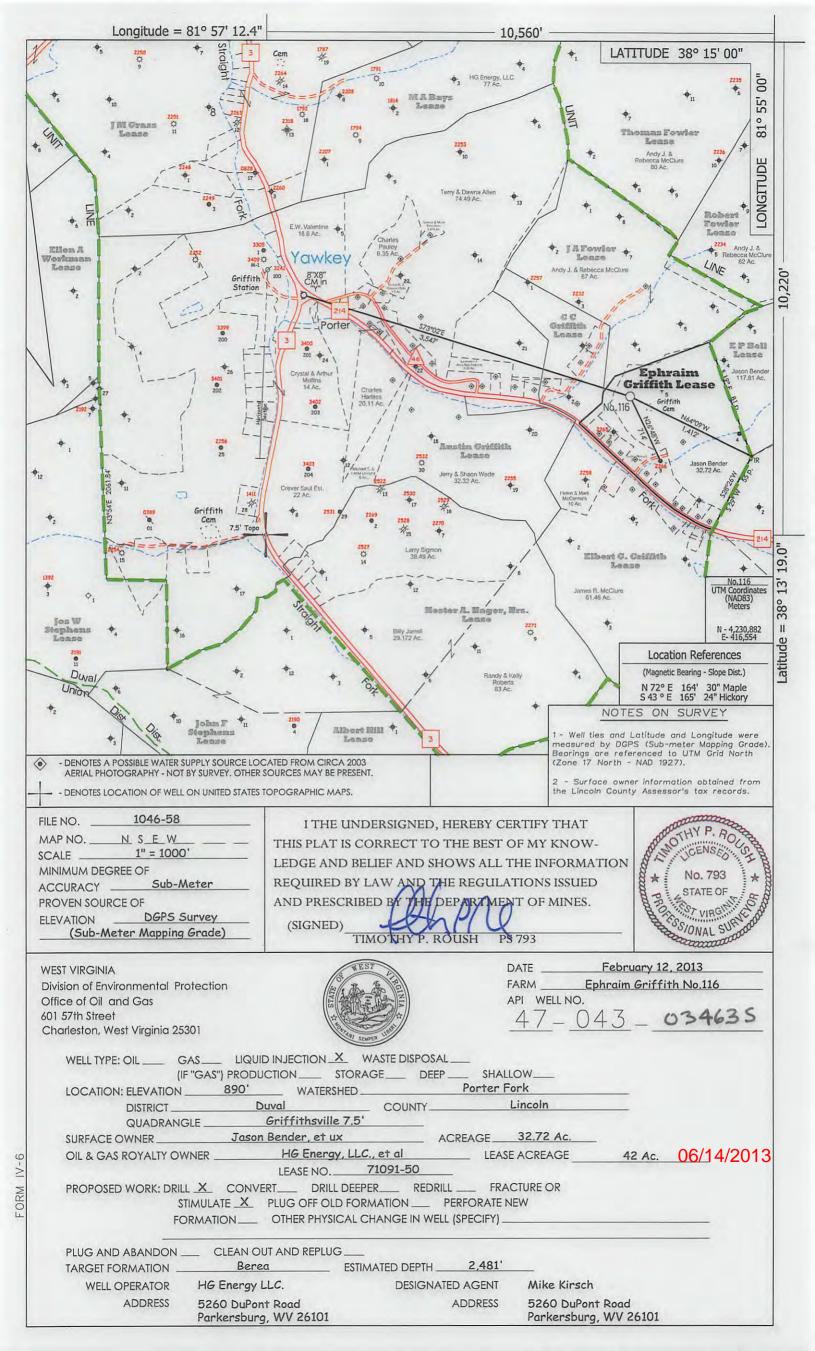
		_	
Property Boundary	. A . A .	Diversion	111111111111111111111111111111111111111
Road	=======================================	Spring ·	<u>→</u>
Existing Fence	· —x——x——	Wet Spot	Ď,
Planned Fence	//	Dmin Pipe	
Stream		Waterway	\leftrightarrow \leftrightarrow \leftarrow
Open Ditch	>	Cross Drain	77777777777
Rock	50000	Filter Strip	XXXXXXXXXX
		Pit: Cut Walls	Curring
North	N	Pit: Compacted	Julius Comments
Buildings	E ***	Fill Walls	111111
Water Wells	. ®	Area of Land	
Drill Site	⊕	Application of Pit Waste	(
		_]	

roposed Revegetation		Area	l I		
	on Treatment: Acres Disturbed	Approx.	1.0 Ac.	Prevegetation pH	
		Area			
	•	Approx.	1.0 Ac.		
	Lime 2	_Tons/Acre or Co	rrect to pH	6.5	•
	Fertilizer (10-20-20 or Equiva			(500 lbs. Minimum)	
	Mulch Straw	2 Tons/Ac	re		
		SEED MIX	KTTIRES		
	• •				
	Area I (Location)			Area II (Roa	<u>d)</u>
Seed Type	Lbs/A	∆c.	Seed Ty		Lbs/Ac.
Tall Fescue	40		Tall Fesc		<u>40</u> 5
Ladino Clov	er <u>5</u>		Ladino C	lover	
	•				
			<u> </u>		
	:		<u> </u>		•
Attach:					
Drawing(s) of road.	location, pit and proposed area fo	or land application			
Drawing(s) of road.		or land application			•
Drawing(s) of road.	location, pit and proposed area fo	or land application			·
Drawing(s) of road, Photocopied section	location, pit and proposed area for of involved 7.5' topographic she	or land application			
Drawing(s) of road.	location, pit and proposed area for of involved 7.5' topographic she	or land application et.			
Drawing(s) of road, Photocopied section	location, pit and proposed area for of involved 7.5' topographic sheets: by: Rolph D. Trop	or land application et.			
Drawing(s) of road, Photocopied section Plan approved	location, pit and proposed area for of involved 7.5' topographic sheets: by: Rolph D. Trop	or land application et.			
Drawing(s) of road, Photocopied section Plan approved	location, pit and proposed area for of involved 7.5' topographic sheet by: Aclas D. Troponts:	et.		Date: Ma	1, 20/3
Drawing(s) of road, Photocopied section Plan approved	location, pit and proposed area for of involved 7.5' topographic sheet by: Aclal D. Troponts:	et.			. 2, 30/3
Photocopied section Plan approved	location, pit and proposed area for of involved 7.5' topographic sheet by: Ralph D. Trepents:	et.			2, 30/3











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

\$ 65000

April 24, 2013

Mr. James Peterson WVDEP Division of Oil & Gas 601 57th Street Charleston, West Virginia 25304

RE: Ephraim Griffith No. 116

Diane CWhite

Duval District, Lincoln County

West Virginia

Dear Mr. Peterson:

Enclosed are Forms WW-3A, WW-3B, WW-9, WW-3(B1), Mylar of plat, reclamation plan, topo map and copies of the certified mailing receipts for a permit to drill a liquid injection well. Also enclosed is our check in the amount of \$650.00 to cover the associated permit fees.

Very truly yours,

Diane C. White

Enclosures

cc: Jason & Ashley Bender - Certified Andy & Rebecca McClure - Certified

Jackie Stowers - Certified Ralph Triplett - Inspector Received

MAY 9 2013

