

### 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 17, 2013

## WELL WORK PERMIT Secondary Recovery Well

This permit, API Well Number: 47-4303467, 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 teel free to contact me at (304) 926-0499 ext. 1654.

James Martin

Chief

Operator's Well No: C.C. GRIFFITH NO. 123

Farm Name: MCCLURE, ANDY J. & REBECCA

API Well Number: 47-4303467

Permit Type: Secondary Recovery Well

Date Issued: 06/17/2013

### **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



1) Date		A	pril 24, 20	013	
2) Operator's Well	No.	C	. C. Griffi	th No.	123
3) API Well No.	47	-	043	-	
_	State		County		Permit
4) UIC Permit No.		U	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

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17) Virgin re 18) Estimate 19) MAXIMU	servoir press				343	1	Ft.			
18) Estimate 19) MAXIMU	Control of the last	re in tore			Yes		X	No		
19) MAXIMU	d reservoir fr	are in targ	et formati	on:		1,2	50	psig.	Source	Estimated
		acture pre	ssure:			2,6	50	psig.		
20) DETAILE	M PROPOSI	ED INJEC	TION OPE	CRATIC	ONS: Vol	ume per hour	25 BBL		Bottom Hole Pressur	e 2,400 psi
						CTED, INCLU mprove oil reco		DITIVES	Fresh water, prod	uced water, bactericid
21) FILTERS	(IF ANY)		Cartridge	filters	and/or coal h	ed filters				
22) SPECIFI	CATION FOI	CATHOL	DIC PROT	ECTIO	N AND OTH	ER CORROSIC	ON CONTR	ROL		
23) CASING	AND TUBIN	G PROGR	AM							·
CASING OR		CDECH	FICATION	IC		ECOMA OF IN	DEDVALG		CEMENO EN L'UD	DAGIERRO
CASING OR TUBING TYPE	Size	Grade	Weight	New		FOOTAGE INT or Drilling	Left in	Well	OR SACKS (CU. FT.	PACKERS
Conductor	Dine	Grade	Height	11011	Osca 1	or Drining	Left III	Well	OR BROKE (OC. 11.	Kinds
Fresh Water	7"	L.S.	17#	X		443'	443'		Cement to Surface	Tension
Coal					T TES					Sizes
Intermediate										2.375" x 4.5"
Production	4 1/2"	J-55	10.5#	X		2629'	2629		150 sacks	Depths Set
Tubing	2 3/8"	J-55	4.6#	X		2300'	2300	)'		2200'
Liners								95		Perforations
										Top Bottom
				-						
24) APPLICA	NTS OPERA	TING RIG	HTS were	acquir	red from	Ephraim & Na	ance Griffi	th	TOCONO	h
by D	eed	Lease	X	Ot	ther Contract	I	Dated	June 1	8, 1904	of record in the
		Lincoln		Count	y Clerk's Offi	ce in		Book	36 at Page	81
					44444			-	MAY 1 0 2013	

06/21/2013

WW-3A 10/07

5) Surface Owner(s) To Be Served



1) Date:		April 24, 2	2013		
2) Operator's We	ll No.	C. C. Grif	fith No.	123	
3) API Well No.	47	043			
77.7.	State	County		Permit	
4) UIC Permit N	o.	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

(c) Name Address  (a) Inspector Ralph Triplett Address  5539 McClellan Hwy Branchland, WV 25506 Telephone  OTHE PERSON(S) NAMED ABOVE: You should have received a sets out the parties involved in the drilling or other work;  (b) The plat (surveyor's map) showing the well location on Form W.  (c) The plat (surveyor's map) showing the well location on Form W.  (d) The Construction and Reclamation Plan on Form WW-9 (unless which sets out the plan for erosion and sediment control and form the date proposed for the first injection or waste disposal is  The REASON YOU RECEIVED THESE DOCUMENTS IS THAT YOU HATHICH ARE SUMMARIZED IN THE "INSTRUCTIONS" ON FORM WW-RE NOT REQUIRED TO TAKE ANY ACTION AT ALL.  Take notice that under Chapter 22-6 of the West Virginia Code, the undersigned well population and accompanying documents for a Well Work Permit with the Chief of the prigrapmental Protection, with respect to a well at the location described on the attactory.	Name Address Name Address Coal Lessee Vork Perm W-6; and the well we reclamate be determ	it on Form WW-3(B), which work is only to plug a well), ion for the site and access road. ined S REGARDING THE APPLICATION
Yawkey, WV 25573   7 (0)   Name   Address   7 (0)   Address   7 (0)   Address   7 (0)   Address   7 (0)   Address   5539 McClellan Hwy   Branchland, WV 25506   389-0350   Telephone   389-0350   O THE PERSON(S) NAMED ABOVE: You should have rectain the parties involved in the drilling or other work; 2) The plat (surveyor's map) showing the well location on Form W(3) The Construction and Reclamation Plan on Form WW-9 (unless which sets out the plan for erosion and sediment control and form the date proposed for the first injection or waste disposal is   Telephone   The REASON YOU RECEIVED THESE DOCUMENTS IS THAT YOU HE THICH ARE SUMMARIZED IN THE "INSTRUCTIONS" ON FORM WW-RE NOT REQUIRED TO TAKE ANY ACTION AT ALL.   Take notice that under Chapter 22-6 of the West Virginia Code, the undersigned well population and accompanying documents for a Well Work Permit with the Chief of the previous mental Protection, with respect to a well at the location described on the attraction and accompanying documents for a Well Work Permit with the Chief of the previous mental Protection, with respect to a well at the location described on the attraction and accompanying documents for a Well Work Permit with the Chief of the previous mental Protection, with respect to a well at the location described on the attraction in the data.	Name Address Name Address Coal Lessee Vork Perm W-6; and the well we reclamate be determ	e With Declaration Of Record NA  s form and the following documents: it on Form WW-3(B), which work is only to plug a well), ion for the site and access road.  ined S REGARDING THE APPLICATION
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Branchland, WV 25506  389-0350  O THE PERSON(S) NAMED ABOVE: You should have received in the Application for a Liquid Injection or Waste Disposal Well Vests out the parties involved in the drilling or other work;  (2) The plat (surveyor's map) showing the well location on Form W.  (3) The Construction and Reclamation Plan on Form WW-9 (unless which sets out the plan for erosion and sediment control and for the date proposed for the first injection or waste disposal is  HE REASON YOU RECEIVED THESE DOCUMENTS IS THAT YOU HE THICH ARE SUMMARIZED IN THE "INSTRUCTIONS" ON FORM WW-RE NOT REQUIRED TO TAKE ANY ACTION AT ALL.  Take notice that under Chapter 22-6 of the West Virginia Code, the undersigned well opplication and accompanying documents for a Well Work Permit with the Chief of the prigrammental Protection, with respect to a well at the location described on the attachment.	Vork Perm W-6; and the well vereclamati be determ VE RIGHT	it on Form WW-3(B), which work is only to plug a well), ion for the site and access road. ined S REGARDING THE APPLICATION
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W-6. Copies of this Notice, the Application, the plat, and the Construction and Rec rtified mail or delivered by hand to the person(s) named above (or by publication in ailing or delivery to the Chief.	e Office of O thed Applicat amation Plan	oil and Gas, West Virginia Department of tion and depicted on the attached Form In have been mailed by registered or
The person signing this document shall make the follo	ving certific	eation:
The person signing this document shan make the fonc	TING CETTING	200 100 100 100 100 100 100 100 100 100
certify under penalty of law that I have personally examined and am	ll Operator	
miliar with the information submitted in this document and all attachments A	dress	5260 Dupont Road
nd that, based on my inquiry of those individuals immediately responsible		Parkersburg, WV 26101
r obtaining the information, I believe that the information is true, accurate		Direct C White
nd complete. I am aware that there are significant penalties for submitting		Diane C. White Accountant
lse information, including the possibility of fine and imprisonment."		Accountant
	gnature	DiaRechived
il and Gas Privacy Notice he Office of Oil and Gas processes your personal information, such as name, addre		

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:

depprivacyofficer@wv.gov Office of Oil and Gas

WW-2B1

Well No.	C. C	. Griffith	No. 123

## 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 Name	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.

Special Note:

Frederived

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	of	3
API N	Jumber 47-	043		
Operator's Well No.	C. C. G1	riffith N	No. 123	

## 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

	TIG DICE	y, LLC		0	Code 494497	948
Watershed	Porter Fo	rk		Quadrangle	Griffithsville 7.5'	385
Elevation	913'	County	Lincoln 43	District	Duval	02
	nticipated Pit Waste:		ered in drilling shallow			
o you anticipat	te more than 5,000 bbls	s of water to comple	te the proposed well worl	Yes	No X	
Vill a synthetic	liner be used in pit?	Yes	If so, what mil.?	10 Mil. 20 6	114,	
roposed Dispos		cation nd Injection (UIC Pe	rmit Number			)
	Reuse (at A					)
-	Off Site Dis	posal (Supply Form (Explain	WW-9 for disposal locati	on)		
rilling medium	anticipated for this we	-	oil based ata Air 1	Froch Water		)
	oilbased, what type?			Fresh Water		
dditives to be u	sed? Water, So	oap, KCI				
	posal method? Leave					
			m will be used? Cement,	lime, sawdust N	ative soil, cement, l	ime
- Lis	andfill or offsite name/j	permit number?				
is application for r obtaining the enalties for subr	orm and all attachmen information, I believe nitting false information	ts thereto and that, that the information on, including the pos	based on my inquiry of the aistrue, accurate and consisting of the constitution of the	nose individuals im nplete. I am aware nment.	mediately responsible	е
ompany Offici			Diane Clubi	te		
	al (Typed Name)					
mpany Officia			iane C. White			
	al Title	A	ccountant			
	sworn before me this					
			ccountant		tar Puble IV	ed
	sworn before me this		ccountant		tar Cubic IV	ed
abscribed and	sworn before me this	24 d	ay of April 20	OFFICIAL S NOTARY PU STATE OF WEST	EAL 2013 BLIC VIRGINIA	3
cribed and	sworn before me this	24 d	ay of April 20	OFFICIAL S NOTARY PU STATE OF WEST	EAL <sup>M</sup> 2013	3

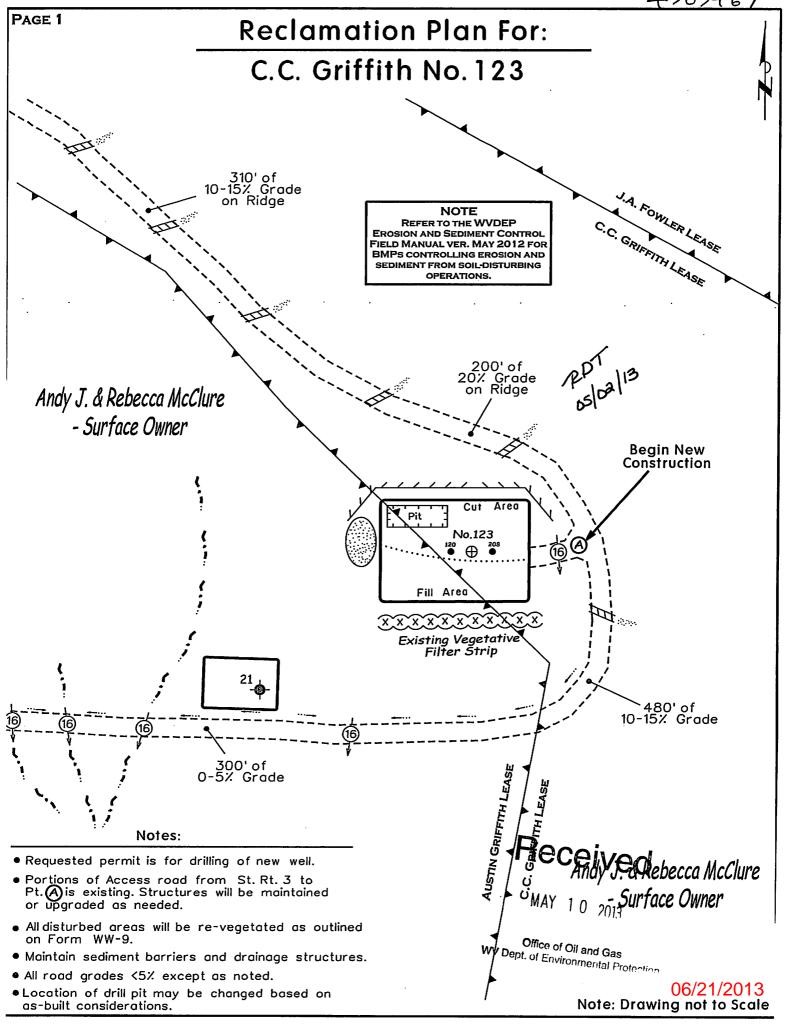
06/21/2013

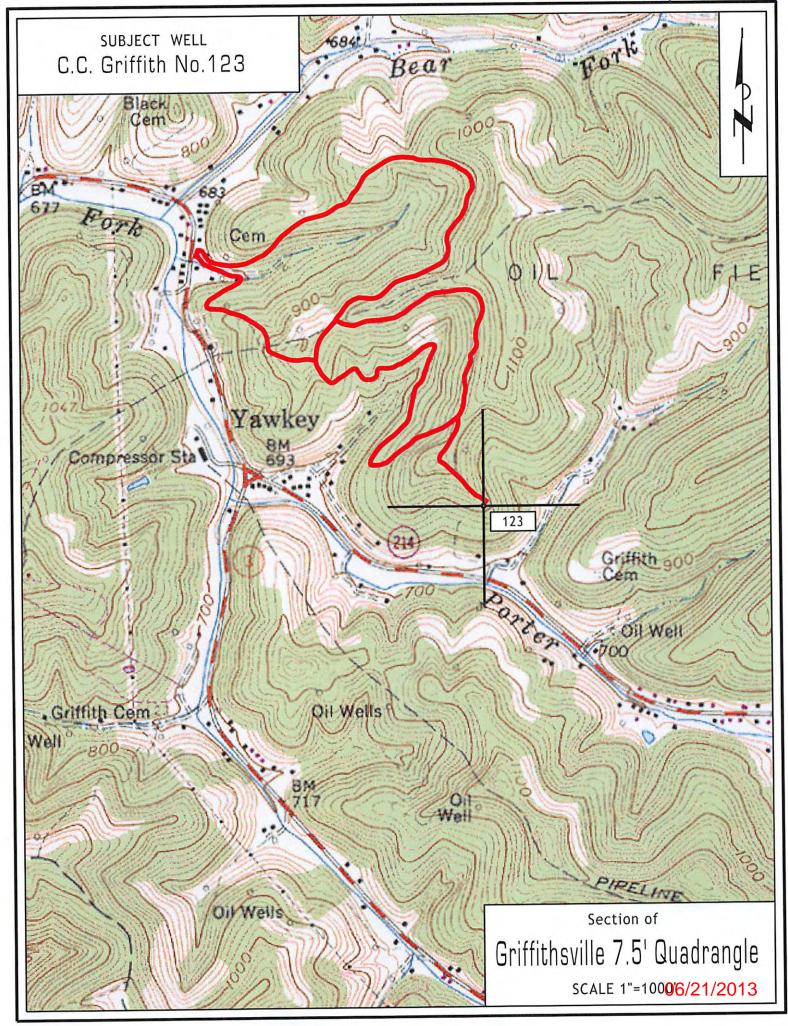
Office of Oil and Gas
WV Dept. of Environmental Protection

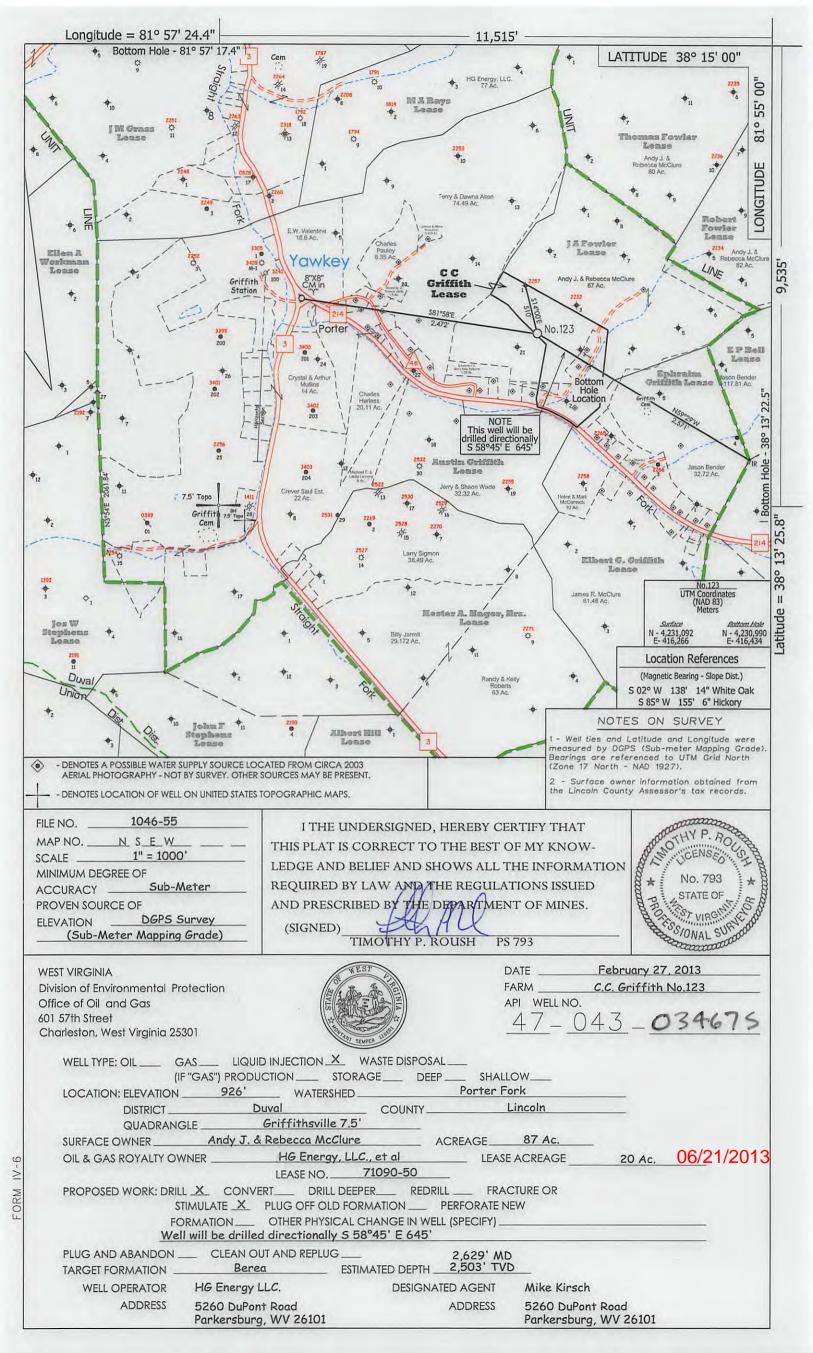
## Legend

		٢	11111111111
. [	A A A	Diversion	
Property Boundary		Spring	<b>○</b> →
Road			پېرد
Existing Fence	xx	Wet Spot	
	//_	Drain Pipe	-12
Planned Fence		Waterway	←> ←> ←> ←>
Stream	7 7	}	7/1////////////////////////////////////
Open Ditch	>	Cross Drain	
	370,000	Filter Strip	XXXXX
Rock	-000 Mag	Pit: Cut Walls	
· North	N.	Pit: Compacted	<i>y</i>
		Fill Walls	miner
Buildings		, py and	
Water Wells	Ŵ	Area of Land Application	1 12 12 12 1
Drill Site	1 🕀	of Pit Waste	
		_1	
	Are	al	A 19 YT

roposed Revegetation	n Treatment: Acres Disturbed	Area I Approx. 1 Area II	.0 Ac. Prevegetatio	n pH
	Lime 2	Approx. 1 Tons/Acre or Correct	.0 Ac.	
	Fertilizer (10-20-20 or Equiva  Mulch Straw		Lbs./Acre (500 lbs. Minis	ntuni)
		SEED MIXT	URES	
			Area	II (Road)
Seed Type	Area I (Location) Lbs/A	Ac.	Seed Type Tall Fescue	Lbs/Ac.
Tall Fescue Ladino Clove			Ladino Clover	
				·
Attach: Drawing(s) of road,	location, pit and proposed area f	for land application		•
Photocopied section	of involved 7.5' topographic she			
Plan approved	by: Rospl D. Trups	gD)		
Comme	nts:			
	-0		Date:	: May 2, 2013
Ti	itle: District Inspec	KISTU		<del>-</del> 7
Field Review	ed? Yes		( ) No 1	Redeived
	another and the	and the state of t		MAY 1 0 2013









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

> CK# 2182 \$65000

April 24, 2013

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

RE: C. C. Griffith No. 123

Duval District, Lincoln County

West Virginia

Diane C White

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: Andy & Rebecca McClure - Certified

Ralph Triplett - Inspector

Received

MAY 1 0 2013

Office of Oil and Gas WV Dept. of Environmental Protection

