

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: 47-4303466, 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: C.C. GRIFFITH NO. 120

Farm Name: MCCLURE, ANDY J. & REBECCA

API Well Number: 47-4303466

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	13	
2) Operator's Well	No.	(C. C. Griffi	th No.	120
3) API Well No.	47	-	043		
	State		County		Permit
4) UIC Permit No		Ţ	JIC2R0430	1AP	

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

) LOCATION:		Elevation					rshed	Porter	The state of the s		
	District	t	Duval		Count	tyLincol	n		Quadrangle	Grif	fithsville 7.5'
WELL OPER	RATOR:	HG Ener	31214 3333		49449794	8 8) DES	GNATE	D AGENT	: M	like Kirsc	h
			ont Road							260 Dupoi	-3-34 8 8 8 8 9 V
		Parkersb	ourg, WV 2	26101		_			Pa	arkersbur	g, WV 26101
OIL & GAS		OR TO BE Ralph Tr		D:		10) DF	CILLING (CONTRAC Name			
	Address	5539 Mc(-				Address	S		
		Branchla	ind, WV 2	5506		<u> </u>					
) PROPOSED	WELL WO	ORK:		g Off O	ld Formatio	Drill Deeper on Well (specify)	Perforate	Redril New Forn		Stimulate	X Convert
2) Geological ta	rget forma	ation		Berea		Depth		2,508	Ft. (Top) to		2,529 Ft. (Botton
B) Estimated de	epth of con	npleted we	ell (or actu	al dept	h of existing	g well)	2503' TVI	2629' T	MD Ft	t.	
4) Approximate	water str	ata depths	s:	Fresh		280	Ft.		Salt	990	Ft.
5) Approximate	e coal sean	depths:			340		Ft.				
3) Is coal being	mined in	the area?			Yes		X	No		4	
) Virgin reserv	voir pressu	are in targ	et formati	on:		1,2	50	psig.	Source		Estimated
							***	2.0			
 Estimated re 	eservoir fra	acture pres	ssure:			2,6	50	psig.			
 Estimated re MAXIMUM 				ERATIC	NS: V	2,6 olume per hour		_	Bottom Hole	Pressure	2,400 psi
9) MAXIMUM 0) DETAILED	PROPOSE IDENTIFI	ED INJEC	TION OPI OF MATE	RIALS	TO BE INJ		25 BBL				2,400 psi ced water, bactericid
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WV Dept. of Environmental Protection

WW-3A 10/07



1) Date:		April 24, 2	2013		
2) Operator's We	ll No.	C. C. Griff	fith No	. 120	
3) API Well No.	47	043	1=0		
	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

5) Surface Owner	THE DEPARTMENT OF ENVIRONMENTAL	7 (a) Coal Operator	
	Andy & Rebecca McClure	Name	NA
(a) Name	109 Coon Whistle Hollow	Address	
Address	Yawkey, WV 25573	- Tuurees	
-	Tawkey, WV 25575	7 (b) Coal Owner(s	s) With Declaration Of Record
(b) Name_			NA
Address_		Name	NA
_		Address	
(c) Name			
Address		Name	
_		Address	
(c) Ingression	Ralph Triplett	7(c) Coal Lessee W	Vith Declaration Of Record
6) Inspector_	5539 McClellan Hwy	7.404	NA
Address	Branchland, WV 25506	-	7077
-		-	
Telephone_	389-0350		orm and the following documents:
THE REASON YOU	sed for the first injection or waste disposal is OU RECEIVED THESE DOCUMENTS IS THAT YOU MMARIZED IN THE "INSTRUCTIONS" ON FORM V	To be determin J HAVE RIGHTS I VW-3(A) DESIGNA	REGARDING THE APPLICATION
	IRED TO TAKE ANY ACTION AT ALL.		
Application and acc Environmental Prot VW-6. Copies of thi	der Chapter 22-6 of the <u>West Virginia Code</u> , the undersigned companying documents for a Well Work Permit with the Chie tection, with respect to a well at the location described on the is Notice, the Application, the plat, and the Construction and ivered by hand to the person(s) named above (or by publication the Chief.	of the Office of Oil attached Applicatio Reclamation Plan h	and Gas, West Virginia Department of n and depicted on the attached Form ave been mailed by registered or
	The person signing this document shall make the	following certificat	ion:
Laartify under ren	alty of law that I have personally examined and am	Well Operator	HG Energy, LLC
amiliar with the in	formation submitted in this document and all attachments	Address	5260 Dupont Road
	my inquiry of those individuals immediately responsible	ATTACK MAKE	Parkersburg, WV 26101
	formation, I believe that the information is true, accurate		
and complete. I am	aware that there are significant penalties for submitting	By:	Diane C. White
alse information, in	ncluding the possibility of fine and imprisonment."	Its:	Accountant CCEIVEN
		Signature	Diane YCI Phite

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 the regulatory duties. Your personal information may be disclosed to other State agencies or third parties in the course of business of agencies to complete to complete to complete to complete the course of business of agencies of the regulatory regulatory requirements, including Freedom of Information Act requests. Our office will appropriately secure your personal information, please contact DEP's Chief Privacy Officer at:

WW-2B1

Well No.	C.	C.	Griffith	No.	120	
022 2 101	٠.	٠.				

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:

e Sturm Environmental Services
private laboratory
HG Energy, LLC
5260 Dupont Road
Parkersburg, WV 26101

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:

Received

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.

MAY 1 0 2013

Form WW-9 Rev. 10/94

,	Page	3	of	3
API N	umber 47-	043		
Operator's Well No.	C. C. G1	riffith N	No. 120	

STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION OFFICE OF OIL AND GAS

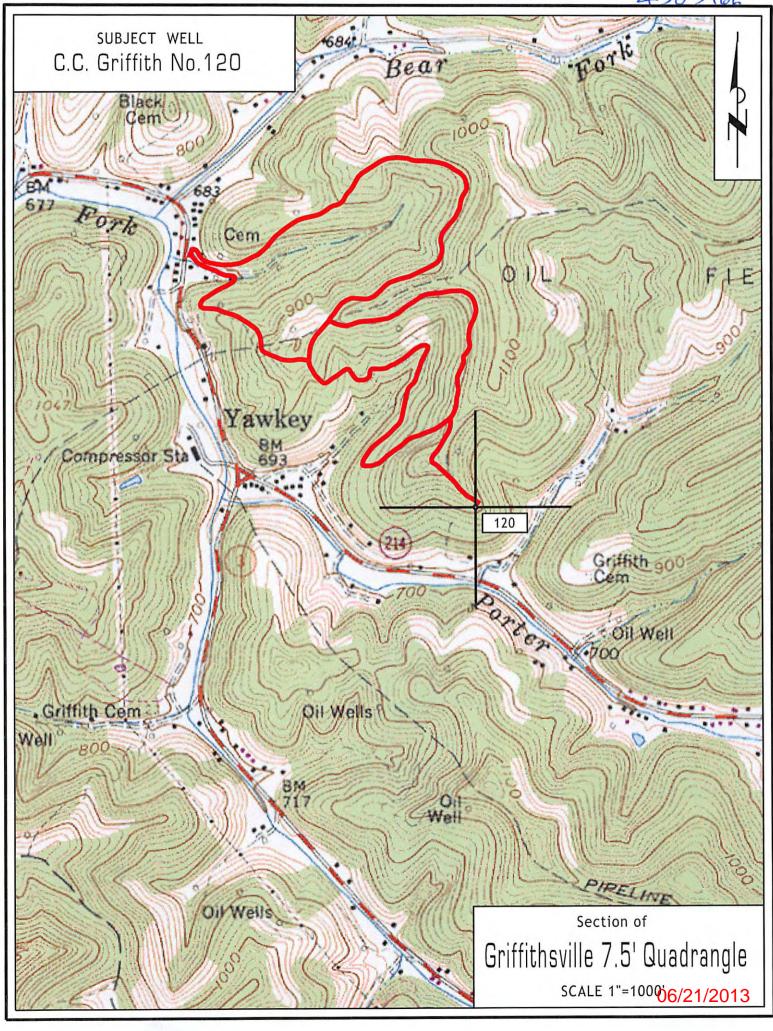
CONSTRUCTION AND RECLAMATION PLAN AND SITE REGISTRATION APPLICATION FORM GENERAL PERMIT FOR OIL AND GAS PIT WASTE DISCHARGE

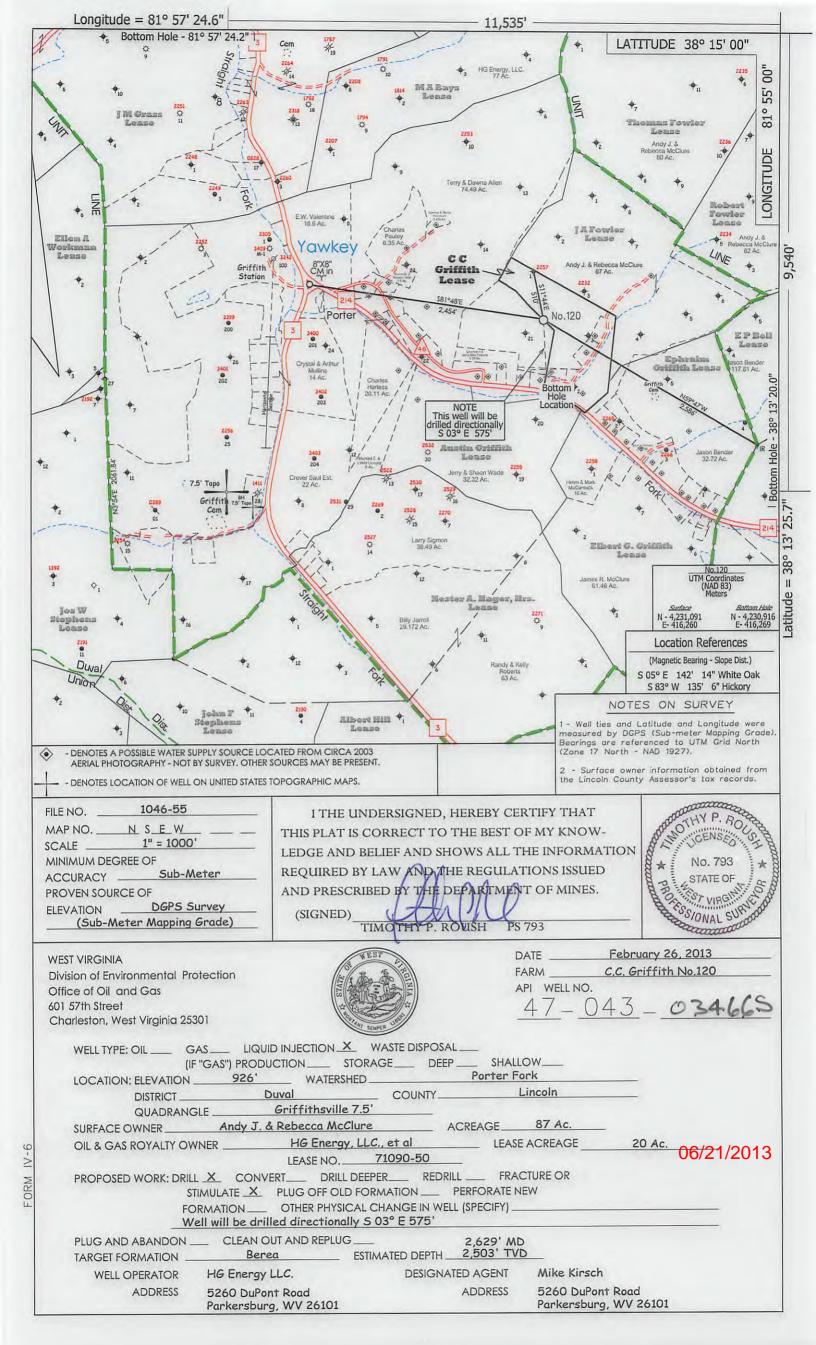
Operator	HG Energy	, LLC			C)P Code 494497	948
Watershed	Porter For	2			Quadrangle	Griffithsville 7.5'	385
Elevation	926'	County	Lincoln	43	District	Duval	02
Description of	anticipated Pit Waste:	Fluids encou	intered in drilling s	hallow v	well.		,
Do you anticip	ate more than 5,000 bbls	of water to com	plete the proposed w	ell worl	Yes	No X	
Will a synthet	ic liner be used in pit?	Yes	If so, what mil.?	-10	Mil. 20	MIL	
Proposed Disp	Reuse (at Al	ation d Injection (UIC PI Number	C Permit Number	al locatio	n)		<u>)</u>
– Drilling mediv	m anticipated for this wel	-	ater, oil based, etc.	Air, F	resh Water		
	If oilbased, what type? S	The state of the s	eum, etc.	NA			-
Additives to be							
-	lisposal method? Leave in If left in pit and plan to s Landfill or offsite name/p	olidify, what me		Cement,	lime, sawdust <u>l</u>	Native soil, cement, l	ime
this application for obtaining to penalties for so	certify under penalty of land in the control of land all attachment the information, I believe to the information of the control of the contr	s thereto and that the informa	hat, based on my inquition is true, accurate	and com	ose individuals in aplete. I am awan ament.	mmediately responsible	е
	icial (Typed Name)		Diane C. White	ONN	<u> </u>		
		-	Accountant				
Company Off	iciai Title	-	Accountant	•		FA	-1-0-1
Subscribed a	nd sworn before me this	2 0	_ day of <u>(Up.1</u>	W.	10013	Notary Public C	Oivo d
My commission	on expires	012,201	8			, ,,,,	cived
Form WW-9		4		STAT	OFFICIAL SEA NOTARY PUBLI E OF WEST VIF INA L. PETHTE HG Energy, LLC 5260 Dupont Road Durg, West Virginia SSION Expires Nov	C RGINIA	1 0 2013 Dil and Gas

WW9-Back

Legend

Property Boundary Road Existing Fence Planned Fence Stream Open Ditch Rock North North Pit: Compacted	> -> -> -> -> -> ->
Existing Fence Planned Fence Stream Open Ditch Rock Pit: Cut Walls	-> -> -> > > >
Planned Fence Stream Open Ditch Rock Pit: Cut Walls	-> -> -> >
Planned Fence Stream Open Ditch Rock Pit: Cut Walls	
Stream Open Ditch Rock Pit: Cut Walls	CXXX
Open Ditch Rock Pit: Cut Walls	CXXX
Rock Soft B	
	4
North N Pit Compacted	
Tione Limbactor	<u></u>
Fill Walls	
	(E)
Application	
Drill Site Of Pit Waste	
Mulch Straw 2 Tons/Acre SEED MIXTURES	
Area I (Location) Area II (Road) Lb	s/Ac.
Seed Type Lbs/Ac. Toll Faccus	10
Tall Fescue 40 Ladino Clover	5
Ladino Clover	
Ladino Clover	
Ladino Clover	
Ladino Clover 5	 ;
Attach: Attach:	
AND M	
Attach: Drawing(s) of road, location, pit and proposed area for land application Photocopied section of involved 7.5' topographic sheet.	ived
Attach: Drawing(s) of road, location, pit and proposed area for land application Photocopied section of involved 7.5' topographic sheet. Plan approved by: Plan approved by:	ived
Attach: Drawing(s) of road, location, pit and proposed area for land application Photocopied section of involved 7.5' topographic sheet. Plan approved by: Comments:	eived
Attach: Drawing(s) of road, location, pit and proposed area for land application Photocopied section of involved 7.5' topographic sheet. Plan approved by: Comments: Date:	o 2013
Attach: Drawing(s) of road, location, pit and proposed area for land application Photocopied section of involved 7.5' topographic sheet. Plan approved by: Comments: MAY 1	il and Gas







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

965000

April 24, 2013

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

RE:

C. C. Griffith No. 120 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

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

