

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

March 31, 2015

WELL WORK PERMIT Secondary Recovery Well

This permit, API Well Number: 47-8704767, 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: J. LONG 106 Farm Name: KING, WILLIE API Well Number: 47-8704767 Permit Type: Secondary Recovery Well Date Issued: 03/31/2015

Promoting a healthy environment.

04/03/2015

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.
- 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.

87047675

FORM WW-3 (B) 1/12



	Date: Operato	01/13/20 r's Well 1		Jac	kson Long 10	06		
	API We		47 State	-	Roane County		s	Permit
4)	UIC Pe	rmit No.	UIC2	R08	704AP	_		

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

	Liquid	Injection	-	- / /	Wate	on (not storage) ershed: Rusl	Run		
) LOCATION:	Elevation	1038			Cour	ty Roane		Quadrangl	e Looneyville 7.5'
	District:	Smithfield	i		Cour	8) DESIGNATI	D AGEN	T Diane Whit	te
) WELL OPERAT	FOR: HG	Energy, LL	С			6) DESIGNALI	Address	5260 Dupo	ont Road
Addre	ess 526	0 Dupont R	load				Address		rg, WV 26101
		kersburg, W				10) DRILLING	CONTRA		
) OIL & GAS INS	SPECTOR	TOBEN	OTIFIEI	D			Determine	d Upon Approv	val of Permit
Jame Ed Gain							Determine	d upon appro-	
Address P. O. Bo	ox 821					Address			
	, WV 25276	6			_				/ Stimulate
1) PROPOSED W	DOFT	P	lug off ol Other ph	ysical cl	tion	/ Perfora ell (specify) Depth	2100	Feet (top)	Convert
 GEOLOGIC 1 Estimated Dep 	th of Con	pleted We	ell, (or ac	tual dep	th of existi	ing well): TVD 2	200', TMD 2740	Feet	Feet
 Approximate v 	vater strat	a depths:	Fres	sh 37	5'	Feet	Salt	1600'	_ 1001
15) Approximate c	oal seam	depths:	NA						
16) Is coal being n	nined in th	ne area?	Yes		No		and a state		
17) Virgin reservo	ir precent	e in target	formatio	n 1250	psig	Source	Estimated		2650 psig (BHFP)
18) Estimated rese	in pressure	hure prece	112	-					2650 psig (BHFP)
18) Estimated rese	avon mac	ture pressi	TIONTOT	TTD A TTT	0310 TI		OF DDI	Bottom h	ne pressure 2400 par
COLUMN TO THE FT	DODOCT	IN INTERV	I ICIN CIE	PERALI	ONS: V	olume per hour	20 DDL	_ Bottom m	the pressure
19) MAXIMUM F	TTA TRATTICA	O A THONK		HRIALS		VIECTED, mo	and an an a second		S Fresh water, produced
19) MAXIMUM F	TTA TRATTICA	O A THONK		HRIALS		VIECTED, mo	and an an a second		S Fresh water, produced
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 MAXIMUM F DETAILED II water, bactericide 	DENTIFIC es and othe	CATION (OF MAT	d to main	tain water q	uality and improve	e oil recover	у.	S Fresh water, produced
19) MAXIMUM F	DENTIFIC es and othe	CATION (OF MAT	d to main	tain water q	uality and improve	e oil recover	у.	Fresh water, produced
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19) MAXIMUM F 20) DETAILED II water, bactericide 21) FILTERS (IF 22) SPECIFICAT 23) CASING AND CASING OR TUBING TYPE Conductor Fresh Water Coal Intermediate	DENTIFIC es and othe ANY) <u>C</u> IONS FO TUBING I Size 7"	CATION (r chemicals artridge filte R CATHO PROGRAM SPE Grade	OF MAT as neede ors and/or DDIC PRO CIFICATIO Weight per ft. 17#	ERIALS d to main coal bed OTECT ONS New x	filters ION AND	OTHER CORF FOOTAGE IN For Drilling 500'	ROSION C TERVALS Left In Well 500'	y. CONTROL CEMENT FILL-UP OR SACKS (CU. FT.) CTS	PACKERS Kinds Sizes 2,375"x4.5" Depths set
19) MAXIMUM F 20) DETAILED II water, bactericide 21) FILTERS (IF 22) SPECIFICAT 23) CASING AND CASING OR TUBING TYPE Conductor Fresh Water Coal Intermediate Production	DENTIFIC es and othe ANY) _C IONS FO TUBING I Size 7" 4 1/2"	CATION (r chemicals artridge filte R CATHO PROGRAM SPE Grade LS ST&C	OF MAT as neede ors and/or DDIC PRO CIFICATIO Weight per ft. 17# 10.5#	ERIALS d to main coal bed OTECT ONS New x x x x	filters ION AND	OTHER CORF FOOTAGE IN For Drilling 500' 2700'	ROSION C TERVALS Left In Well 500' 2700'	y. CONTROL CEMENT FILL-UP OR SACKS (CU. FT.) CTS	PACKERS Kinds Sizes 2.375"x4.5" Depths set 2350'
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19) MAXIMUM F 20) DETAILED II water, bactericide 21) FILTERS (IF 22) SPECIFICAT 23) CASING AND CASING OR TUBING TYPE Conductor Fresh Water Coal Intermediate Production Tubing Liners	DENTIFIC and othe ANY) <u>C</u> IONS FO TUBING I Size 7" 4 1/2" 2 3/8"	CATION (r chemicals artridge filte R CATHO PROGRAM SPE Grade LS ST&C J-55 J-55	OF MAT as neede ors and/or DDIC PRO CIFICATIO Weight per ft. 17# 10.5# 4.6#	ERIALS d to main coal bed OTECT ONS New x x x x x x x x	Used	OTHER CORF FOOTAGE IN For Drilling 500' 2700' 2450'	COSION C TERVALS Left In Well 500' 2700' 2450'	y. CONTROL CEMENT FILL-UP OR SACKS (CU. FT.) CTS	PACKERS Kinds Sizes 2.375"x4.5" Depths set 2350' Perforations
19) MAXIMUM F 20) DETAILED II water, bactericide 21) FILTERS (IF 22) SPECIFICAT 23) CASING AND CASING OR TUBING TYPE Conductor Fresh Water Coal Intermediate Production Tubing	DENTIFIC and othe ANY) <u>C</u> IONS FO TUBING I Size 7" 4 1/2" 2 3/8"	CATION (r chemicals artridge filte R CATHO PROGRAM SPE Grade LS ST&C J-55 J-55 J-55	OF MAT as neede ors and/or DDIC PRO CIFICATIO Weight per ft. 17# 10.5# 4.6#	ERIALS d to main coal bed OTECT ONS New X X X X X X X X X X X X X X X X X X X	Used	OTHER CORF FOOTAGE IN For Drilling 500' 2700' 2450' Jackson Loo	COSION C TERVALS Left In Well 500' 2700' 2450'	y. CONTROL CEMENT FILL -UP OR SACKS (CU. FT.) CTS 200 sks	PACKERS Kinds Sizes 2.375"x4.5" Depths set 2350' Perforations

1/26/15

FEB 0 6 2015

WV Department of Environmental Protection 3/2015



FORM WW-3 (A) 1/12



 Date: Operat 	January '			n Long 10	6	
3) API W		47	-			n
4) UIC Pe	rmit No.	State UIC2	R08704	County		Permit

STATE OF WEST VIRGINIA

NOTICE OF LIQUID INJECTION OF WASTE DISPOSAL WELL WORK PERMIT APPLICATION FOR THE DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS,

5) Surface Ow	ner(S) To Be Served	7) (a) Coal Operator
(a) Name	Richard Fisher	Name
Address	4513 Clay Road	Address
	Spencer, WV 25276	
(b) Name	Willie King	7) (b) Coal Owner(S) With Declaration Of Record
Address	1090 Clover Road	Name
	Spencer, WV 25276	Address
(c) Name		Name
Address		Address
6) Inspector	Ed Gainer	7) (c) Coal Lessee with Declaration Of Record
Address	P. O. Box 821	Name
	Spencer, WV 25276	Address
Telephone	304-389-7582	

TO THE PERSONS NAMED ABOVE: You should have received this form and the following documents

- The Application For A Liquid Injection or Waste Disposal Well Work Permit on Form WW-3(B), which sets out the
 parties involved in the drilling or other work;
- (2) The plat (surveyor's map) showing the well location on Form WW-6; and
- (3) The Construction and Reclamation Plan on Form WW-9 (unless the well work is only to plug a well), which sets out the plan for erosion and sediment control and for reclamation for the site and access road.

The date proposed for the first injection or waste disposal is

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THE REASON YOU HAVE RECEIVED THESE DOCUMENTS IS THAT YOU HAVE RIGHTS REGARDING THE APPLICATION WHICH ARE SUMMARIZED IN THE "INSTRUCTIONS" ON THE REVERSE SIDE OF THE COPY OF THE APPLICATION [(FORM WW-3(B)] DESIGNATED TO YOU. HOWEVER YOU ARE NOT REQUIRED TO TAKE ACTION AT ALL.

Take notice that under Chapter 22-6 of the <u>West Virginia Code</u>, the undersigned well operator proposes to file or has filed this Notice and Application and accompanying documents for a Well Work Permit with the Chief of the Office of Oil and Gas, West Virginia Department of Environmental Protection, with respect to a well at the location described on the attached Application and depicted on the attached Form WW-6. Copies of this Notice, the Application, the plat, and the Construction and Reclamation Plan have been mailed by registered or certified mail or delivered by hand to the person(s) named above (or by publication in certain circumstances) on or before the day of the mailing or delivery to the Chief.

The person signing this document shall make the following certification:

in the floor deal house	manally aromined and	HG Energy, LLC			
"I certify under penalty of law that I have per am familiar with the information submitted in	this document and all Address	Address	5260 Dupor	nt Road	
attachments and that, based on my inquiry of		Parkersburg, WV 26101			
immediately responsible for obtaining the inf			Diane White		
the information is true, accurate and complet are significant penalties for submitting false	e. I am aware that there	Ths:	Agent		
the possibility of fine and imprisonment.	Office of Oil at FEB 0 6 2	Signature:	Diane	. White	
	WV Departm Environmental	Protection	2		04/03/201







RECEIVED Office of Oil and Gas

FEB 0 6 2015

WV Department of Environmental 2765/2501

87047675

WW-2B1 (5-12) Well No. Jackson Long 106

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.

Be advised, you have the right to sample and analyze any water supply at your own expense.

Listed below is the laboratory chosen by operator to perform analysis, and contactor chosen to collect sample.

Certified Laboratory Name	Sturm Environmental	
Sampling Contractor	Sturm Environmental	

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 underling which one you have selected to sample and analyze. If there are no water wells or springs within 1000 feet of the proposed site, the Chief may require the operator to test wells up to 2000 feet from the proposed site.

Surface Owners with Water Sources Identified for Sampling (Analysis:



- * Willie King 1090 Clover Road Spencer WV 25276
 - * Richard Fisher 4513 Clay Road Spencer WV 25276

RECEIVED Office of Oil and Gas

FEB 0 6 2015

WV Department of Environmental Protection 04/03/2015

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WW-9 Rev. 5/10			Page <u>562</u> of API Number 47 Operator's Well No. Jackson Leng 106
		STATE OF WEST DEPARTMENT OF ENVIRON OFFICE OF OIL	MENTAL PROTECTION
	CONSTRU	CTION AND RECLAMATION PLAN AND GENERAL PERMIT FOR OIL AND C	SITE REGISTRATION APPLICATION FORM GAS PIT WASTE DISCHARGE
Operator N	lameHG Ener	gy, LLC	OP Code 494497948
			adrangle Looneyville 7.5'
Elevation	1038'	County Roane	District_Smithfield
Will a synt	thetic liner be Disposal Meth x	used in the pit? <u>Yes</u> . If so, wo not For Treated Pit Wastes: <u>Land Application</u> Underground Injection (UIC Permit Num Reuse (at API Number Off Site Disposal (Supply form WW-9 for	ber25-561
ر۔ Additives Will close Drill cutti	nedium anticip If oil based, w to be used? ed loop system ngs disposal r	ated for this well? Air, freshwater, oil based, that type? Synthetic, petroleum, etc. NA Water, Soap, KCI be used? No nethod? Leave in pit, landfill, removed offsit	ctcAir, Fresh Water

ssued 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, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine or imprisonment. RECEIVED Office of Oil and Gas

Company Official Signature Diane White	Office of Oil and Gas
Company Official (Typed Name) Diane White	FEB 0 8 2015
Company Official Title_Agent	W\\ Department of Environmental Protection
Subscribed and sworn before me this 13th day of January	, 20 15
Sterric Julony	OFFICIAL SEAL NOTARY PUBLIC Vibrativ Eblistate OF WEST VIRGINIA S. DIANNE DULANEY P. O. Box 5519

My commission expires (24. 4. 0016

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Vienna, West Virginia 28105 My Commission Expires Oct. 4, 2018



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OFFICIAL SEAL NOTARY PUBLIC STATE OF WEST VIRGINIA S. OIANNE DULANEY P. O. Box 5519 Venna, Viost Virginia 26105 My Commission Explose Oct. 4, 2016

87047675

Form WW-9

Operator's Well No._____

	L	EGEND	
	-	Diversion Contraction	1111111111111111
Property Boundary		Spring O->	
Rond = = = = = = = = = = = = = = = = = = =		Wet Spot Br	
Existing Fence — X — X	- ~ -	Drain Pipe with size in inches	
Planned Fence / /			$=$ \in \in \bullet
Stream		Cross Drain TITIT	
Open Ditch	···· ·· ·· ·· ·· ·· ·· ·· ·· ·· ·· ·· ·	Artificial Filter Strip	XXXXXXXXXXXXXX
Rock 535886		Pit: cut walls	
North N		Pit: compacted fill walls	2 Contraction of the second
Buildings		Area for Land Application of P	it Waste
Water wells		6	
Drill site			
	1.2	2 Prevegetation pl	н
Proposed Revegetation Treatment: A	cres Disturbed		
3 _{Tot}	ns/acre or to correct to ph	46.5	
	<u> </u>	os/acre (500 lbs minimum)	
Fertilizer (10-20-20 or equiv	valent)10	s/acre (500 rbs minimum)	
Mulch Straw	2 Tons	/acre	
Witten	Se	ed Mixtures	
			rea II
Area I		Seed Type	lbs/acre
Seed Type 1	bs/acre	Tall Fescue	40
Tall Fescue	40		5
Ladino Clover	5	Ladino Clover	5
Proper sediment contro	ol should be in p	lace at all times.	
Attach:	t and area for land t	application.	
Attach: Drawing(s) of road, location,pit and			RECEIVED
Photocopied section of involved 7.	5' topographic sheet.		Office of Oil and Gas
		2	FED 0 C COLE
	-0		FEB 0,6 2015
Plan Approved by:			WV Department of
			Environmental Protection
Comments:			Environmental Protection
		1 1	
1	-	Date: 1/2.6-	15
Title:nspector		- Date	
Di 11 Daviowad?)Yes) No	
Field Reviewed?			
			04/03/2015











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



January 13, 2015

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

RE: Jackson Long No. 106 Smithfield District, Roane County West Virginia

Dear Mr. McLaughlin:

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 an injection well. Also enclosed is our check in the amount of \$650.00 to cover the associated permit fees.

Very truly yours,

Diane White

Diane C. White

Enclosures

cc: Richard Fisher – Certified Willie King - Certified Ed Gainer – Inspector

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