

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

February 27, 2015

WELL WORK PERMIT

Secondary Recovery Well

This permit, API Well Number: 47-8704758, 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. MCGRAW 115

Farm Name: ATKINSON, DELORES (TRUSTER

API Well Number: 47-8704758

Permit Type: Secondary Recovery Well

Date Issued: 02/27/2015

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. 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 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.

FORM WW-3 (B) 1/12



1) Date:	01/16/20	15				
2) Operato	r's Well	No.	Charles McGraw 115			
3) API We	PI Well No.:		-	Roane	-	
		State	-	County		Permit
A) IHC Per	mit No	LUCC	DOO.	704AD		

STATE OF WEST VIRGINIA

5) WELL TYPE:	Liquio Elevatio	Injection	V	_ /		tion (not storage ershed: Rush	n Run	_ / Wa	ste Disposal
6) LOCATION:		Smithfield	4	/		nty Roane		Quadrang	le Looneyville 7.5' 44'
7) WELL OPERA				7	Cou	8) DESIGNAT	ED AGEN		
		60 Dupont F	Road			0) DEG	Address		oont Road
Add		rkersburg, \							urg, WV 26101
9) OIL & GAS IN						10) DRILLING	G CONTR.	ACTOR	
Name Ed Gai		K TO BE I	(OIII II			Name To B	e Determine	ed Upon Appro	oval of Permit
Address P. O. B			-			Address			
, reterior	r, WV- 262 0	II'	- 4	v	-	-			
Оренос	2.52				A Same				/ Stimulate
11) PROPOSED V	WELL WO	ÖRK P	Drill lug off o			eeper/ Performed (specify)/	_ / Red ate new fo		Convert
	n . D CET	CODICAT			change in w	Depth	2135	Feet (top)	to 2155 Feet (bottom)
12) GEOLOGIC 7	ARGET	FORMAT	ION BIG	g mjun	nth of aviet			_	
13) Estimated Dep	oth of Cor	npieted W	en, (or a	sh 40	pui or exist	Feet Zes	Salt	1635	Feet
14) Approximate	water stra	ta deptins:	NA	Sn 40	0	rect	- Jun _		_, -, -, -, -, -, -, -, -, -, -, -, -, -,
15) Approximate	coal seam	depths:	-		No	V			
16) Is coal being 1	nined in t	ne area?	formatic	n 1250	_	Source	Estimated		
17) Virgin reservo	oir pressur	e in target	Tormano	550	bar	Bource			psig (BHFP)
18) Estimated reso 19) MAXIMUM	ervoir frac	cuire press			IONS: I	olume per hou	25 BBL	Bottom h	ole pressure 2400 psi
19) MAXIMUM	PROPOSI	CATION	OF MAT	PEDIAL	C TO DE E	onne per nom	TIDING	ADDITIVE	C Fresh water produced
						MIECTED INC	LUDING	ADDITIVE	J LICOLI MOTOL PLOGGOOD
20) DETAILED I	oc and other	CATION or chamicals	or meeds	ed to mai	of an exter of the state of the	NJECTED, INC	e oil recover	y.	S Fresh water, produced
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JAN 2 2 2015

CK Z913 # 65000

FORM WW-3 (A) 1/12



1)	Date:	January 1	6, 2015				
2)	Operate	or's Well	No.	Charle	s McGraw	115	
3)	API W	ell No.:	47	-		-	
			State		County		Permit
4)	UIC Per	rmit No.	UIC2	R08704	AP		

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,

	mer(S) To Be Served	7) (a) Coal	Operator		
(a) Name	Reva Snodgrass	Name	-		
Address	3740 Tranquility Drive	Address	-		_
55.62.00	Melbourne, FL 32934	m a) a 1	0 (8) WH D	L C OCD	
(b) Name	Richard Fisher		Owner(S) With D	eclaration Of Reco	rd
Address	4513 Clay Road	Name Address	-		
	Spencer, WV 25276	Address	-		
(c) Name		Name			
Address		Address			
6) Inspector	Ed Gainer	7) (c) Coal	Lessee with Decla	ration Of Record	
Address	P. O. Box 821	Name			
	Spencer, WV 25276	Address			
Telephone	304-389-7582		1		
The date	erosion and sediment control and for reclamate proposed for the first injection or waste N YOU HAVE RECEIVED THESE DO	disposal is	IS THAT YOU	HAVE RIGHTS	20 15 . REGARDING THE
APPLICATIO THE APPLIC ACTION AT	N WHICH ARE SUMMARIZED IN THE ATION [(FORM WW-3(B)] DESIGNATE ALL.	"INSTRUC D TO YOU	TIONS" ON THE	OU ARE NOT RE	QUIRED TO TAKE
Notice and Ap West Virginia Application ar and Reclamati	at under Chapter 22-6 of the West Virginia oplication and accompanying documents for Department of Environmental Protection and depicted on the attached Form WW-6. Con Plan have been mailed by registered or in certain circumstances) on or before the d	r a Well We with respectopies of the certified ma	ork Permit with the ect to a well at the is Notice, the App il or delivered by	the Chief of the Offi the location describ lication, the plat, a thand to the person(nee of Oil and Gas, need on the attached and the Construction
	The person signing this docum	ent shall m	ake the following	g certification:	
	to Elevate II	land and	Well Operator	HG Energy, LLC	
"I certify unde	er penalty of law that I have personally exami ith the information submitted in this docume	inca ana	Address	5260 Dupont Road	
attachmente a	nd that, based on my inquiry of those individ	luals		Parkersburg, WV 26	3101
immediately re	esponsible for obtaining the information, I be	elieve that	By:	Diane White	
the informatio	n is true, accurate and complete. I am aware	that there	Its:	Agent	
are significant	penalties for submitting false information, i	ncluding	400	1.1.1.1.1.1.2	
the possibility	of fine and imprisonment.		Signature:	Diane Wil	rite
	Dessived				

Received Office of Oil & Gas

JAN 2 2 2015

U.S. Postal Service CERTIFIED MAIL RECEIPT 45ES 4204 0000 (Domestic Mail Only; No Insurance Coverage Provided) BURG Postage Certified Fee ,30 Return Receipt Fee (Endorsement Required) IAN Here 2015 Restricted Delivery Fee (Endorsement Required) USEMIIS Total Postage & Fees \$ Richard Fisher et al. Street, Apt. No.; or PO Box No. Clay Road 4513 City, State, ZIP+4 25276 Spencer, WV See Reverse for Instructions PS Form 3800, August 2006

5361	U.S. Postal Service™ CERTIFIED MAIL™ RECEIPT (Domestic Mail Only; No Insurance Coverage Provided)					
N	For delivery information	ation visit our website at www.usps.com _®				
7	OFF	ICIAL USE				
h20h	Postage	\$ 1,40				
	Certified Fee	3,30 SBURG				
0000	Return Receipt Fee (Endorsement Required)	Postmark				
	Restricted Delivery Fee (Endorsement Required)	2.70				
0570	Total Postage & Fees	\$ 7,40 SCM115				
7074	Reva Snodgrass Street, Apt. No.; or PO Box No. 3740 Tranquility Drive					
	City, State, ZIP+4	Ibourne, FL 32934				
	PS Form 3800, August 20					

Received Office of Oil & Gas JAN 2 2 2015 WW-2B1 (5-12) Well No. Charles McGraw 115

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
Sampling Contractor
Sturm Environmental
Sturm Environmental

Well Operator HG Energy, LLC
Address 5260 Dupont Road

5200 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 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 / Analysia:

* Reva Snodgrass
3740 Tranquility Drive
Melbourne FL 32934

* Caroline Miller 4326 Clay Road Spencer WV 25276

* Richard Fisher 4513 Clay Road Spencer WV 2527 Received * Casie Roberts
4454 Clay Rood
Mells Spercer WV 25276

Office of Oil & Gas

WW-9 Rev. 5/10

Page	570	of	
API Number 47			
Operator's Well No. Cha	ries McGra	w 115	

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

GENERAL PERMIT FOR OIL AND	GAS PIT WASTE DISCHARGE
Operator NameHG Energy, LLC	OP Code 494497948
	Quadrangle Looneyville 7.5'
Elevation 1111' County Roane	District Smithfield
Description of anticipated Pit Waste: Fluids encountered while stim	
Do you anticipate using more than 5,000 bbls of water to complete	the proposed well work? Yes No X
Will a synthetic liner be used in the pit? Yes If so,	, what mil.? 20 mil
Proposed Disposal Method For Treated Pit Wastes: Land Application Underground Injection (UIC Permit Nu Reuse (at API Number Off Site Disposal (Supply form WW-9 f Other (Explain)
Drilling medium anticipated for this well? Air, freshwater, oil based—If oil based, what type? Synthetic, petroleum, etc. NA Additives to be used? Water, Soap, KCI Will closed loop system be used? No Drill cuttings disposal method? Leave in pit, landfill, removed offs -If left in pit and plan to solidify what medium will be used -Landfill or offsite name/permit number?	ite, etcLeave in pit d? Cement, lime, sawdust_Native soil, cement, lime
on August 1, 2005, by the Office of Oil and Gas of the West Virgin provisions of the permit are enforceable by law. Violations of any law or regulation can lead to enforcement action.	y term or condition of the general permit and/or other applicable amined and am familiar with the information submitted on this in my inquiry of those individuals immediately responsible for accurate, and complete. I am aware that there are significant of fine or imprisonment. Received Office of Oil & Gas
Company Official Little Agent	JAN 2 2 2015
Subscribed and sworn before me this 16th day of January My commission expires Of. 4, 30/6	OFFICIAL SEAL ONOTARY PUBLIC STATE OF WEST VIRGINIA S. DIANNE DULANEY P. O. Box 5519
	Vienna, West Virginta 26105 My Commission Expires Oct 4, 2016

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OFFICIAL SEAL
NOTARY PUBLIC
STATE OF WEST VIRGINIA
S. DIANNE DULANEY
P O Box 5519
Vigona. West Vigona 26105
by Carmeroon Expuss Oct 4, 1019



		L	EGEND	
Property Boundary			Diversion (1.11/11/11/11/11/11/11/11/11/11/11/11/11	· · · · · · · · · · · · · · · · · · ·
Rond = = = =	_ = = = = = =		Spring O	
	4 _ x _ x _		Wet Spot	
Planned Fence	/_/_/_		Drain Pipe with size in inches	@
	·7	. 7	Waterway C+ C+	\Leftrightarrow \in
Open Ditch	·· ··		Cross Drain	11111111
Rock 685886	_		Artificial Filter Strip	XXXXXXXXXX
North N			Pit: cut walls	
Buildings			Pit: compacted fill walls	Will the same
	(V		Area for Land Application of P.	it Waste
Drill site			(==	
2, 2				
Proposed Revegetation Tr	reatment: Acres Disturbed	1.8	Prevegetation pH	
Lime	Tons/acre or to con	-00		
Fertilizer (10-20-	-20 or equivalent)	500 _{lbs/a}	cre (500 lbs minimum)	
Mulch Strav	, 2	Tons/ac	re	
WithCit		10113/1101		
		Seed	Mixtures	
	Area I		Are	ea II
Seed Type	lbs/acre		Seed Type	lbs/acre
Tall Fescue	40		Tall Fescue	40
Ladino Clover	5	_	Ladino Clover	5
Lauino Ciovei	3	_	- Ladino Giovei	
Proper sediment	control should be	e in plac	e at all times.	
. 1000				
Attach:			4.1	
Drawing(s) of road, locat	ion,pit and proposed area for	or land appli	cation.	
Photocopied section of in	volved 7.5' topographic she	eet.		

	7			
Plan Approved by:	A			
Comments:				
Comments.				
1	X. A		1/20/10	
Title: NSP	ector		Date: (20 13	
Field Reviewed?	(Roane) Yes	() No	
a ne nemea.	7	,	Received	
		Off	ice of Oil & Gas	
		Off	ice of Oil of Gas	

JAN 2 2 2015





