

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

May 22, 2015

WELL WORK PERMIT

Secondary Recovery Well

This permit, API Well Number: 47-8704780, 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: JONATHAN SMITH 124

Farm Name: WYROSTOK, CHARLES A. JR.

API Well Number: 47-8704780

Permit Type: Secondary Recovery Well

Date Issued: 05/22/2015

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.



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

78704780

January 20, 2015

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

RE: Jonathan Smith No. 124

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: Charles Wyrostok - Certified

Ed Gainer - Inspector

Office of Oil & Gas

FORM WW-3 (B) 1/12



1) Date:	01/20/20	15				
2) Operato	r's Well 1	No.	Jor	nathan Smith	124	
3) API We	II No.:	47	-	Roane	-	04780
		State		County	Т	Permit
4) UIC Per	mit No.	11102	ROS.	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

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9) OIL & GAS I		RTOBE	NOTIFI	ED		10) DRILLIN				
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FORM WW-3 (A) 1/12

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			State		County		Permit
4)	UIC Per	mit No.	UIC2F	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,

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	Spencer, WV 25276		700 1101 1 15	1 OCD	
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	-	Address			
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) Inspector	P. O. Box 821	Name	SSCC WITH DECK	tration of record	
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77.1.1	Spencer, WV 25276	Address	-		
Telephone	304-389-7582		_		
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2000	Return Receipt Fee (Endorsement Required)		\$2.70	Postmark Here	
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7040	Total Postage & Fees	\$	\$7,40	01/20/2015 JS 124	
7013	or PO Box No. 23	o Gr	Wyr	stok Run	/
	PS Form 3800, August 20		IVIV	25276 See Reverse for Instructions	

Office of Oil 2 Gas MAR 3 0 2015 WW-2B1 (5-12)

Well No.	Jonathan	Smith	124

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

Well Operator
Address

HG Energy, LLC

5260 Dupont Road
Parkersburg, WV 26101

Telephone <u>304-420-1119</u>

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:

- * James Cale 4638 Clay Road Spencer WV 25276
- * Brenda Chadwell 4580 Clay Road Spencer WV 25276

* Anthony Hofstad

431 Main Street Received

Spencer NIV 2527/100 of Dil & Gas

MAR 30 2015

05/22/2015

WW-9 Rev. 5/10

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API Number 47 -			
Operator's Well No. Jone	athan Smill	h 124	

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 Name Ho	G Energy, LLC	OP Code 494497948
Vatershed Smith I	Run	Quadrangle Looneyville 7.5'
Elevation 1178'	County Roa	pane District Smithfield
Description of ant	icipated Pit Waste: Fluids encountere	ed while stimulating subject well
		to complete the proposed well work? Yes No X
Vill a synthetic li	ner be used in the pit? Yes	. If so, what mil.? 20 mil
	1 Method For Treated Pit Wastes:	
	 Land Application 	and the second s
	x Underground Injection (UIC	C Permit Number 25-561
	Reuse (at API Number	
	Other (Freeling	orm WW-9 for disposal location)
	Outer (Explain	
rilling medium	anticipated for this well? Air, freshwa	ater, oil based, etc. Air, Fresh Water
-If oil ba	sed, what type? Synthetic, petroleum,	, etc. NA
additives to be us	ed? Water, Soap, KCI	t so ve
	system be used ? No	
Drill cuttings disc	osal method? Leave in pit, landfill, re	emoved offsite, etc. Leave in pit
-If left in	pit and plan to solidify what medium	will be used? Cement, lime, sawdust Native soil, cement, lime
n August 1, 200; rovisions of the aw or regulation I certify pplication form btaining the inf enalties for subn Company Officia	5, by the Office of Oil and Gas of the permit are enforceable by law. Viola can lead to enforcement action. under penalty of law that I have pe and all attachments thereto and that formation, I believe that the informat nitting false information, including the	DOCAL
Company Officia	Title Agent	WC.
. Onipany Officia	Trille	
Subscribed and sy	worn before me this 20th da	lay of January , 20 15
2	Sterni fo	OFFICIAL SEAL NOTARY PUBLIC STATE OF WEST VIR
My commission of	expires OCT. 4, 2010	S. DIANNE DULAN 5260 Dupont Road Parkersburg, West Virginia My Commission Expires Oc

Operator's Well No. _____ Jonathan Smith 124

Property Boundary	LEGEND	
Fisher's continuity	Diversion (1:11111111111111111111111111111111111	111111111111111111111111111111111111111
Rend = = = = = = = = =	Spring O	
Existing Fence — X — X — X —	Wet Spot #	
Planned Fence/_/_/_	Drain Pipe with size in inches	@
Stream	₩aterway ← ← ←	$\rightarrow \leftarrow \rightarrow \leftarrow \rightarrow$
Open Ditch	Cross Drain 7/1/1/	
Rock ESESSE	Artificial Filter Strip	XXXXXXXXXXXX
North N	Pit: cut walls	
Buildings	Pit: compacted fill walls	
Water wells W	Area for Land Application of Pit V	/aste
Drill site	(2.5.5	
Dimane		
Proposed Revegetation Treatment: Acres Disturbed	1.5 Prevegetation pH _	
1 in 3 Tops/gare or to correct	6.5	
Lime Tons/acre of to correct	t to pH	
Fertilizer (10-20-20 or equivalent)	O lbs/acre (500 lbs minimum)	
Straw 2	Tons/acre	
Mulch	Tons/acto	
	Seed Mixtures	
A T	Area I	I
Area I Seed Type lbs/acre	Seed Type	lbs/acre
Tall Fescue 40	Tall Fescue	40
Tun i ocodo	Ladina Clayor	5
Ladino Clover 5	Ladino Clover	
D	n place at all times	
Proper sediment control should be in	if place at all times.	
Drawing(s) of road, location,pit and proposed area for l		
Drawing(s) of road, location,pit and proposed area for l		
Drawing(s) of road, location,pit and proposed area for l		
Drawing(s) of road, location,pit and proposed area for leading to the Photocopied section of involved 7.5' topographic sheet.		
Drawing(s) of road, location,pit and proposed area for leading to the Photocopied section of involved 7.5' topographic sheet.		bou
Drawing(s) of road, location,pit and proposed area for learning learning. Photocopied section of involved 7.5' topographic sheet. Plan Approved by:		Received
Drawing(s) of road, location,pit and proposed area for leading to the Photocopied section of involved 7.5' topographic sheet.		Received Peceived
Drawing(s) of road, location,pit and proposed area for leading to the Photocopied section of involved 7.5' topographic sheet. Plan Approved by:		Office of Oil 8
Attach: Drawing(s) of road, location,pit and proposed area for I Photocopied section of involved 7.5' topographic sheet. Plan Approved by: Comments:	2/25/15	Office of Oil 8
Drawing(s) of road, location,pit and proposed area for leading to the Photocopied section of involved 7.5' topographic sheet. Plan Approved by:		Office of Oil 8
Drawing(s) of road, location,pit and proposed area for leading to the Photocopied section of involved 7.5' topographic sheet. Plan Approved by:	2/25/15	Office of Oil 8, MAR 30 201

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