

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 30, 2015

WELL WORK PERMIT

Secondary Recovery Well

This permit, API Well Number: 47-4303478, 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: MA BAYS 155
Farm Name: HG ENERGY, LLC

API Well Number: 47-4303478

Permit Type: Secondary Recovery Well

Date Issued: 06/30/2015

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



Operator's Well No.		MA Bays 155			
3) API Well No.:	47	-	Lincoln 43	-	s 03478
	State		County		Permit
4) UIC Permit No.	UIC2	R043	BO1AP		

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

	District	on: 945'			Co	atershed: Br		Quadras	ngle Griffithsville 7.5'
7) WELL OPER			LLC			8) DESIGNA	ATED AGE		
	*****	260 Dupor				6) DESIGNA	Addre	-	upont Road
			g, WV 2610	11	_		Addic	-	burg, WV 26101
OIL & GAS I						10) DRILLE	JG CONTI		burg, VVV 20101
	y James	0.19.90							roval of Permit
	Box 147					Address	Do Dotomin	ов оролгар	TO VOT OT I CHINE
Ona, \	W 25545								
1) PROPOSED				hysical	nation	well (specify)	orate new fo		/ Stimulate Convert
2) GEOLOGIC							2440	Feet (top) to 2455 Feet (bo
3) Estimated De								Feet	
4) Approximate				esh 340		Feet	Salt	1190	Feet
5) Approximate			390						
6) Is coal being					_ No	-			
7) Virgin reserv					psi	g Source	Estimated		
 Virgin reserv Estimated res 	ervoir frac	ture pres	sure 265	50					psig (BHF
7) Virgin reserv 8) Estimated res 9) MAXIMUM	ervoir frac PROPOSI	ture pres	Sure 265 CTION O	PERAT	TONS: V	Volume per hou	ır 25 BBL		hole pressure 2400 p
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APR 2 7 2015

430347839

CK# 3001

FORM WW-3 (A) 1/12



1)	Date:	April 10,	2015				
2)	Operate	or's Well	No.	MA Ba	ys 155		
3)	API W	ell No.:	47	-	43	+	63478
			State		County		Permit
15	HIC D.	te NI -					

4) UIC Permit No. UIC2R04301AP

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	mer(S) To Be Served	7) (a) Coal (Operator	
(a) Name	HG Energy, LLC	Name	NA	
Address	5260 Dupont Road	Address		
	Parkersburg, WV 26101			
(b) Name	Dwight Lovejoy	7) (b) Coal	Owner(S) With I	Declaration Of Record
Address	5 Bethel Drive	Name	NA	
	Yawkey, WV 25573	Address		
(c) Name		Name	-	
Address		Address	_	
6) Inspector	Jeremy James	7) (c) Coal 1	Lessee with Decl	aration Of Record
Address	P. O. Box 147	Name	NA	
	Ona, WV 25545	Address		
Telephone	304-951-2596			
plan for e The date	truction and Reclamation Plan on Form Wi rosion and sediment control and for reclama proposed for the first injection or waste N YOU HAVE RECEIVED THESE DO	ation for the s e disposal is	ite and access roa	20 <u>15</u> .
APPLICATION	N WHICH ARE SUMMARIZED IN THE ATION [(FORM WW-3(B)] DESIGNATE	"INSTRUCT	TONS" ON THI	E REVERSE SIDE OF THE COPY OF
Notice and Ap West Virginia Application an and Reclamation	at under Chapter 22-6 of the West Virginia plication and accompanying documents for Department of Environmental Protection, d depicted on the attached Form WW-6. On Plan have been mailed by registered or of the certain circumstances) on or before the definition of	r a Well Wor with respectopies of this certified mail	rk Permit with the total well at the Notice, the Apple or delivered by	ne Chief of the Office of Oil and Gas, ne location described on the attached lication, the plat, and the Construction thand to the person(s) named above (or
	The person signing this docume	ent shall ma	ke the followin	g certification:
			Well Operator	HG Energy, LLC
	penalty of law that I have personally exam	med and	Address	5260 Dupont Road
	h the information submitted in this docume d that, based on my inquiry of those individ	in and an		Parkersburg, WV 26101
	sponsible for obtaining the information, I be		Bv:	Diane White
	is true, accurate and complete. I am aware		Its:	- Control of the Cont
	penalties for submitting false information, in		10.	Agent
	of fine and imprisonment.		Cianotura	Diane White
	A CONTRACT OF THE PARTY OF THE		Signature:	Diane While
	APR	2 7 2015		
	Air			

WW-2B1
(5-12)

Well No.	MA Bays	155	

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 Labs
Sampling Contractor	Sturm Environmental Labs

Well Operator
Address
HG Energy, LLC
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 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.

- See Attached Sheet - Flacoived

APR 2 7 2015

WW-2B1
Page 2 - Continued

Well No.

M. A. Bays 155

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.

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.

Surface Owners Identified With Water Sources to be Sampled and Tested:

- Jonathan Johnson
 Bethel Drive
 Yawkey, WV 25573
- Dwight Lovejoy
 Bethel Drive
 Yawkey, WV 25573
- Randall Coy
 1 First American Way
 Westlake, TX 76262

Received

APR 2 7 2015

WW-9 Rev. 5/10

Page <u>271</u>	of
API Number 47	
Operator's Well No. MA Bays 155	

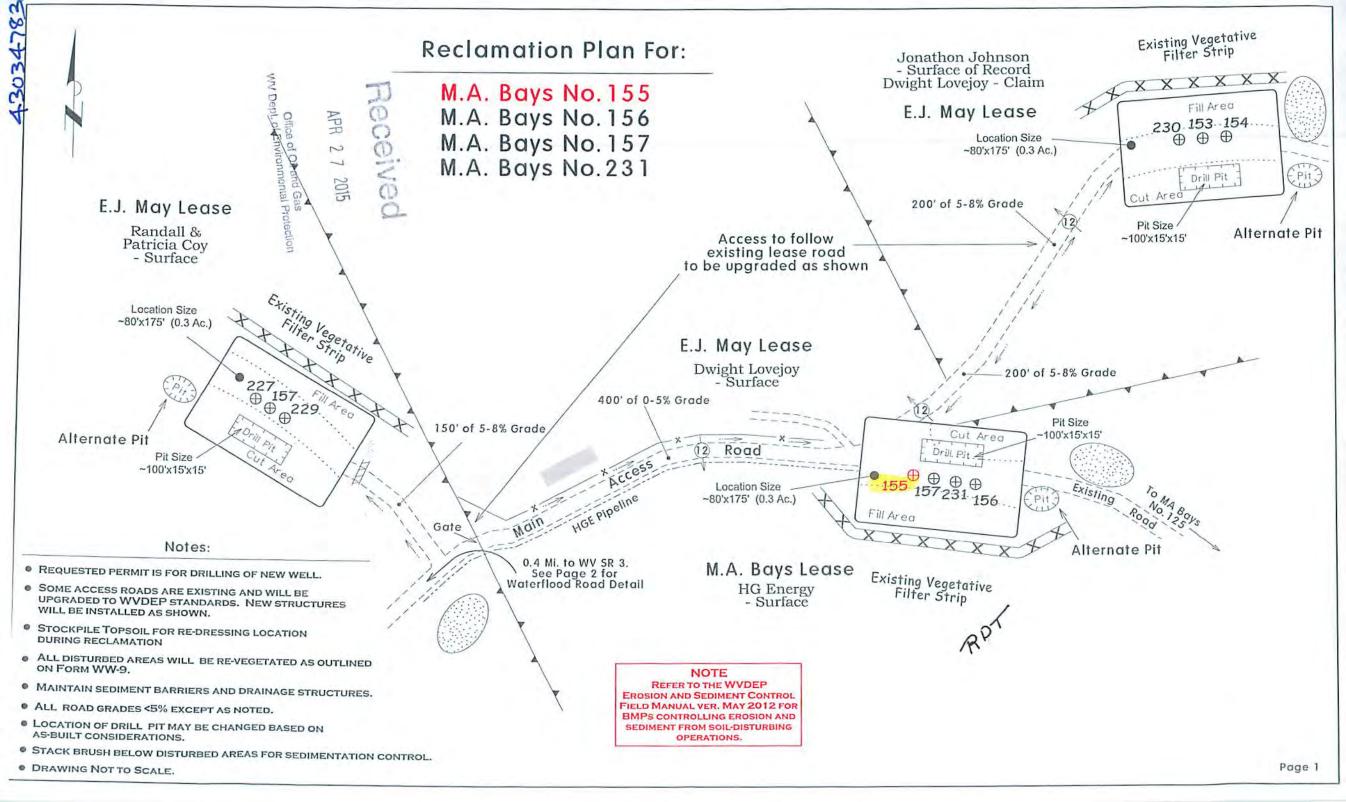
STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION OFFICE OF OIL AND GAS

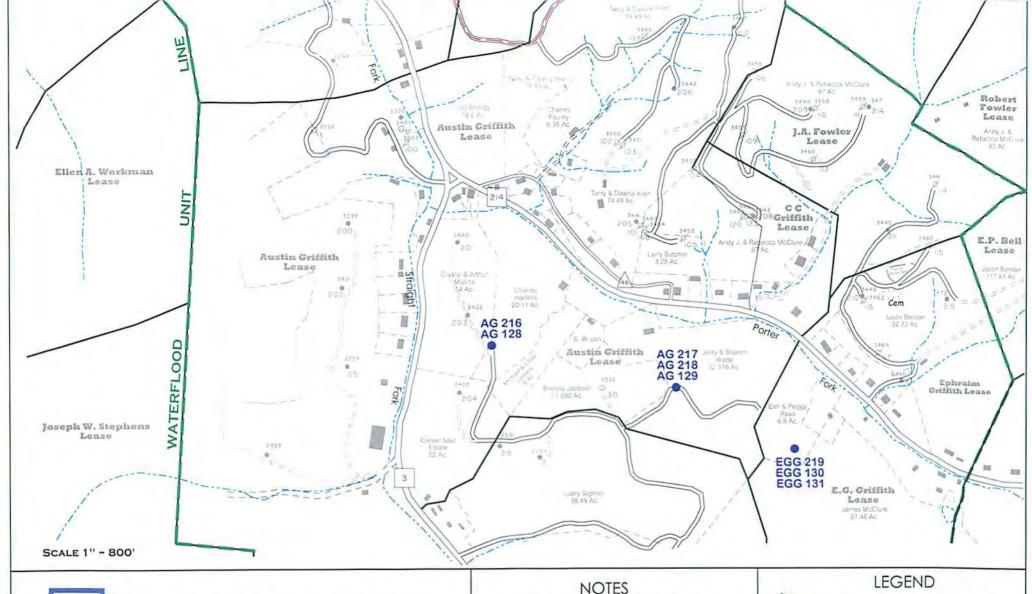
CONSTRUCTION AND RECLAMATION PLAN AND SITE REGISTRATION APPLICATION FORM GENERAL PERMIT FOR OIL AND GAS PIT WASTE DISCHARGE

Operator Name_HG Energy, LLC		OP Code 49449794	8
Watershed Branch of Straight Fork		Quadrangle Griffithsville 7.5	
Elevation 945	County Lincoln	District Duval	
Description of anticipated Pit Wa	ste: Fluids accumlated while drill	ling the subject well	
		the proposed well work? Yes	NoX
Will a synthetic liner be used in the			
Proposed Disposal Method For To X Land A Underg Reuse Off Sit	reated Pit Wastes: pplication ground Injection (UIC Permit N (at API Number e Disposal (Supply form WW-9	umber	
Additives to be used? Water, Soa Will closed loop system be used? Drill cuttings disposal method? L -If left in pit and plan to	Synthetic, petroleum, etc. NA p, KCI No eave in pit, landfill, removed off solidify what medium will be us		, cement and lime
on August 1, 2005, by the Office provisions of the permit are enfolaw or regulation can lead to enfolate application form and all attachments.	of Oil and Gas of the West Virging reable by law. Violations of a reement action. of law that I have personally ements thereto and that, based deve that the information is true remation, including the possibility.		ection. I understand that the ermit and/or other applicable formation submitted on this immediately responsible for that there are significant. APR 2 7 2015
		. WV De	Office of Oil and Gas ept. of Environmental Protection
Subscribed and sworn before me	his 10th day of April	, 2015	Thereas are a second and the second
My commission expires	Bulony 4, 50/6	S	OFFICIAL SEAL NOTARY PUBLIC ITE OF WEST VIRGINIA DIANNE DULANEY 5260 Dupont Road raburg. West Virginia: 26101

Operator's Well No. MA Bays 155

		LEGEND	
Property Boundary 🛮 🕭		Diversion (1)(1)(1)	<u> </u>
Road = = = =	======	Spring —	
Existing Fence — 🗶	_ × _ × _	Wet Spot	
Planned Fence/	//_	Drain Pipe with size in inches	 @
Stream	~	T Waterway	\Leftrightarrow \Leftrightarrow
Open Ditch	·+		
Rock 688888		Artificial Filter Strip XXX	000000000000000000000000000000000000000
North N		Pit: cut walls	
Buildings (Cart		Pit: compacted fill walls	
Water wells		Area for Land Application of I	elt Waste
Drill site			
		0	
Proposed Revegetation Tre	atment: Acres Disturbed	.0 acres Prevegetation pl	H
Lime	Tons/acre or to correct	to pH 6.5	
	EO.C	1	
	O or equivalent)	lbs/acre (500 lbs minimum)	
Mulch Straw	1_	Cons/acre	
		Seed Mixtures	
Λ	rea I	Are	ea II
Seed Type	lbs/acre	Seed Type	lbs/acre
Tall Fescue	40	Tall Fescue	40
Ladino Clover	5	Ladino Clover	5
Sediment Contr	ol should be in place	e at all times	
Attach:			_
Drawing(s) of road, location	n,pit and proposed area for lan	d application.	
Photocopied section of invo	olved 7.5' topographic sheet.	: `	JUSINOO
•	,		201
		,	APR 2 7 2010 -
Plan Approved by: Ral	ok H. Tripsell		
Comments:	,		Office of Oil and Gas
Commens		WV Do	Office of Oil and Gas ept. of Environmental Protection
C		_	
Title: District &	nspectok)	Date: April 23,	2015
	Lincoln	•	
Field Reviewed? (Yes () No	







GRIIFTHSVILLE WATERFLOOD

Lincoln County, W.Va.

RECLAMATION PLAN SHOWING ROAD SYSTEMS TO BE USED FOR 2015 **DRILLING PROGRAM** (NORTH)

- 1. REFER TO THE WVDEP EROSION AND SEDIMENTATION CONTROL MANUAL (VER. MAY 20, 2013) FOR BMP'S CONTROLLING **EROSION AND SEDIMENTATION FROM ALL** SOIL-DISTURBING OPERATIONS.
- 2. SEE PAGE ONE OF RECLAMATION PLAN FOR DETAILS OF NEW ROAD CONSTRUCTION AND ROAD UPGRADES FROM POINT A TO DRILL SITE LOCATION.
- 3. EXISTING WATERFLOOD ACCESS ROADS WILL BE MAINTAINED IN PRESENT CONDITION. THESE ROADS WERE CONSTRUCTED UNDER CONDITIONS SET FORTH IN VARIOUS DRILLING PERMITS ISSUED BY WVDEP-OOG PRIOR TO 2015 (AS SHOWN). SEE PERMITS ON FILE FOR MORE DETAIL.

EXISTING WATERFLOOD ROADS TO BE USED.

OTHER EXISTING MAIN WATERFLOOD ROADS (POSSIBLE ACCESS).

EXISTING LEASE OR FARM ROADS TO BE UPGRADED.

NEW ROADS TO BE CONSTRUCTED.

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LOCATION FOR PROPOSED WELLS

POTENTIAL WATER SUPPLY SOURCE TO BE SAMPLED (LOC. APPROX.)

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MARCH 3, 2015

