

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

January 28, 2014

WELL WORK PERMIT

Secondary Recovery Well

This permit, API Well Number: 47-3305809, 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.

Operator's Well No: M.J. RATHBONE NO. 150

Farm Name: NARDELLA, MICHAEL & MARIA

James Martin

API Well Number: 47-3305809

Permit Type: Secondary Recovery Well

Date Issued: 01/28/2014

Promoting a healthy environment.

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</u> 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 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.

WW-3B 10/07



1) Date		I	ecember 1	15, 201	.3		
2) Operator's Well	No.	M. J. Rathbone No. 150					
3) API Well No.	47	-	033	4			
	State		County		Permit		
4) UIC Permit No.		T	JIC2R0330	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

5)	WELL TYPE:		Liquid	l Injection	1 X	2.	Gas Inject	ion (not si	orage)	Waste Di	sposar	
6)	LOCATION:		Elevation	1176			V	Vatershed	Ten I	Mile Creek		
		District		Tenmile		Co		ırrison	33	Quadrangle	Salem 7.	5' 596
7)	WELL OPER	ATOR:	HG Ener	gy, LLC		49449	7948 8)	DESIGNA	TED AGEN	T: Milce	Kirsch	
	200000	777.33		pont Road							Dupont Road	
			Parkersh	ourg, WV	26101						ersburg, WV 2	3101
))	OIL & GAS IN	NSPECTO	OR TO BE	NOTIFIE	ED:		10	DRILLIN	NG CONTRA	CTOR:		
		Name	Sam Wa	rd					Nan			
		Address	P. O. Box	c 2327					Addres	ss		
			Buckhan	mon, WV	26201							
1)	PROPOSED V	WELL WO	ORK:	Drill	X		Drill Deep	er	Redri	II Stin	nulate X	
						ld Form			ate New For		Convert	
				Other	Physic	al Chang	ge in Well (speci	fy)				
2)	Geological tar	get forma	ation		Fifth 8	Sand	De	pth	2,967	Ft. (Top) to	2,977	Ft. (Bottom)
3)	Estimated dep	pth of con	apleted we	ell (or actu	ial dept	h of exis	ting well)	3120'	TMD	Ft.		50
4)	Approximate	water str	ata depths	3:	Fresh		170	Ft.		Salt	1,290	Ft. 12 12
5)	Approximate	coal seam	depths:			585		Ft.				1212
G)	Is coal being n	nined in t	he area?				Yes	-	X No			Mi
0)							100					
	Virgin reserve	oir pressu		et formati	on:			1,250	psig.	Source	Estimate	ed
7)	Virgin reserve		re in targ		on:				psig.	Source	Estimat	ed
7)	Virgin reservo	ervoir fra	re in targ	ssure:				2,650	psig.			
7) 8) 9)	Virgin reserve Estimated res MAXIMUM P	ervoir fra	re in targ acture pre D INJEC	ssure: FION OPI	ERATIO	ONS:	Volume per ho	2,650 ur 25 E	psig.	Bottom Hole Pre	essure 2,	400 psi
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WW-3A 10/07



1) Date:		December	15, 20	13	
2) Operator's We	ll No.	M. J. Rath	bone N	Jo. 150	
3) API Well No.	47	033	14		
	State	County		Permit	
4) UIC Permit N	0.	UIC2R033	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 Owne	er(s) To Be Served MIRIAM	7 (a) Coal Operator		100
(a) Name	Michael & Lori Nardella	Name	NA	W.
Address	309 John Street	Address		
- John College	Clarksburg, WV 26301			
(b) Name		7 (b) Coal Owner(s)	With Declaration Of Record	
Address		Name	NA	
		Address		
(c) Name				
Address		Name		
		Address		
	G W I		. With the way	
6) Inspector	Sam Ward	7(c) Coal Lessee W	th Declaration Of Record	1
Address	P. O. Box 2327	-	Wolf Run Mining Co.	1
	Buckhannon, WV 26201	C .	2708 Cranberry Square	
Telephone	389-7583		Morgantown, WV 26505	
HE REASON Y	sed for the first injection or waste disposal is OU RECEIVED THESE DOCUMENTS IS THAT YOU MMARIZED IN THE "INSTRUCTIONS" ON FORM VIRED TO TAKE ANY ACTION AT ALL.			I
	der Chapter 22-6 of the West Virginia Code, the undersigned	I wall operator propose	s to file or has filed this Notice and	
	companying documents for a Well Work Permit with the Chie			
	tection, with respect to a well at the location described on the		그런 이번 시간에 하지만 경험된다면 이 그렇게 되었다. 그는 경험 아니라를 걸어 하다 하네요.	
	is Notice, the Application, the plat, and the Construction and			
	livered by hand to the person(s) named above (or by publicati			
and a second second section in the second	invered by hand to the person(s) intiled above (or by publication	on in certain circumsta	ances) on or before the day of the	
nailing or delivery	이렇지만 이렇지 못하면 되었다. 내무의 얼룩 이번 얼룩에서 되고요 나가지만 작용한 이렇게 되면 취임을 보고 있다.	on in certain circumsta	ances) on or before the day of the	
	이렇지만 이렇지 못하면 되었다. 내무의 얼룩 이번 얼룩에서 되고요 나가지만 작용한 이렇게 되면 취임을 보고 있다.			
nailing or delivery	to the Chief. The person signing this document shall make the	following certification	n:	
nailing or delivery	to the Chief. The person signing this document shall make the salty of law that I have personally examined and am	following certificatio	on: HG Energy, LLC	
nailing or delivery certify under penumiliar with the in	The person signing this document shall make the salty of law that I have personally examined and am afformation submitted in this document and all attachments	following certification	HG Energy, LLC 5260 Dupont Road	
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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 our regulatory duties.

Your personal information may be disclosed to other State agencies or third parties in the course of business or as needed to comply with statutory or regulatory requirements, including Freedom of Information Act requests. Our office will appropriately secure your personal information. If you have any questions about our use of your personal information, please contact DEP's Chief Privacy Officer at:

depprivacyofficer@wv.gov



54	U.S. Postal Service TM CERTIFIED MAIL TM RECEIPT (Domestic Mail Only; No Insurance Coverage Provided)
27	For delivery information visit our website at www.usps.com⊕
	OFFICIAL USE
3568	Postage \$ 1.52
	Certified Fee 3.10
2000	Return Receipt Fee (Endorsement Required)
50	Restricted Delivery Fee (Endorsement Required)
305	Total Postage & Fees \$ 7.17 MJR 150
ru E	Michael : Lori Nardella V
7012	Street, Apt. No.; or PO Box No. 309 John Street
	Clarksburg WV 26301
	PS Form 3800, August 2006 See Reverse for Instructions

RECEIVED Office of O

JA

Enviro

WW-2B1

Well No. M. J. Rathbone No. 150

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:

X Contractor Name	Sturm Environmental Services	
Well operator's	private laboratory	
Well Operator	HG Energy, LLC	
Address	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 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.

No known Water Supply Sources are located within 2000' of proposed well but many water sources that the conjunction with this Wolf Summit drilling program

JAN 03 2011

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Form	WW-9
Rev.	10/94

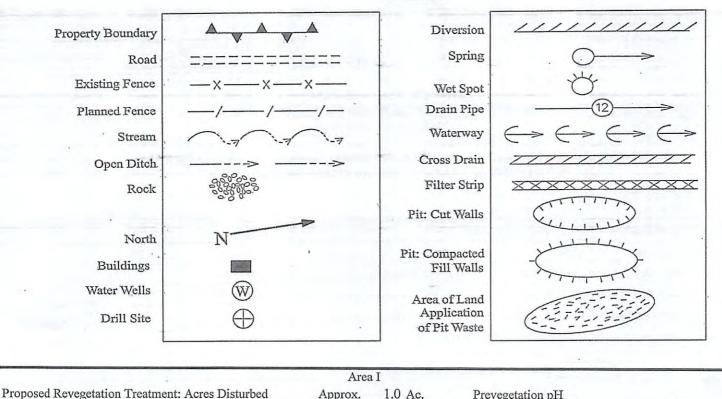
	Page	3	of	3
API N	lumber 47-	033	-	
Operator's Well No.	M. J. Rat	thbone	No: 150)

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				OP Code	494497948	
Watershed .	Ten Mile Cu	eek			Quadrangle	Salem	7.5'	······································
Elevation	1176'	County	Harriso	n	District	Tenr	nile	
Description o	of anticipated Pit Waste:	Fluids encou	ıntered in drillin	g shallow w	ell.		•	
Do you antici	ipate more than 5,000 bbls o	f water to comp	olete the proposed	well worl	Yes	No X		
Will a synthe	etic liner be used in pit?	Yes	If so, what mil.	?201	vIil.			123/2013
Proposed Dis	posal Method For Treated P	it Wastes:			-		. 12- M.	0 Ca
	X Land Applica						7 -	
			Permit Number					
	Reuse (at AP)	***************************************	77077 0 6 31	<u> </u>			•	<u> </u>
•		sai (Suppiy Fo: (Explain	rm WW-9 for dispo	sal location)				,
Drilling modi	um anticipated for this well		ton -:11 b1 -t-	A 2 TP	-7- TXF t			
	 If oilbased, what type? Sy. 			NA NA	sh Water			
Additives to l				7117				
Drill cuttings	disposal method? Leave in		moved offsite, etc.					
	- If left in pit and plan to sol	idify, what med	dium will be used?	Cement, lin	ie, sawdust	Native soil, co	ment, lime	
	- Landfill or offsite name/pe	rmit number?	-		·			
this application	y or regulation can lead to en I certify under penalty of lay on form and all attachments the information, I believe th submitting false information	v that I have po thereto and the at the informat	ersonally examined at, based on my in- ion is true, accura	quiry of those te and comple	e individuals : etc. I am awa	immediately re	sponsible	
	ficial Signature	, 21.02.44.1.15	Diane	- A	ts			
Company Oi	ficial (Typed Name)		Diane C. White					
Company Of			Accountant					
			•					
						<u> </u>		
Subscribed a	nd sworn before me this	16+	day of	ecein be	on 2	<u> دره</u>	lea c. Cili	
		/	mu 2/52]	Notary Public	JAN 03	20%
My commissi	ion expires		NNN , 2	201	8	of MEST		CIAL SEAL
•	on onputes				* \$ \$	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	STATE OF	RY PUBLIC WEST VIRGINIA
Form WW-9					See	學區的可	HG En	PETHTEL lergy, LLC
			•		§ •		5260 Di	upont Road .est Virginia: 2610
					∦.	N	ly Commission E	xpires Nov. 12, 20

Legend



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				Area II				
				Approx. 1	0 Ac.			
	•			присм.	0 110.			
	Lime	2	Tons/	Acre or Correc	to pH	6.5		
	Fertilizer (10	0-20-20 or Equival		500	_	e (500 lbs. Minin	num)	
	Mulch	Straw	2	Tons/Acre		(000 100) 1/111111		
		20011		_ 10115/11010				
	160		S	EED MIXTU	RES			
	Area I (L	ocation)				Awaa T	T (Dood)	
Seed Type	Alca I (L)	Lbs/Ac			Seed Ty		I (Road)	Lbs/Ac.
Tall Fescue		40	•		Tall Feso	7		105/AC.
Ladino Clover		5		_	Ladino C		-	500
_			-	-				33400
				_	_		200	31/
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ich:						1	11	1 03000
	cation, pit and	l proposed area for	land a	application			JASA!	and Gapro
tocopied section o	f involved 7.5	' topographic sheet		11			0.	of Ollandinial Pro
							0"	Supplied Million Line
	00	0 .				0. (1	212	eg. o' 11
Plan approved by	2	Mans	11			Mich	and My) of
Comments	Pre-seed	Mulch al	(di	sturbed a	reas as	soon as 6	Basonal	by bosible p
WINDER	ELS M			le Ets c				7 1
Title	0			1142	1 //60	/	-1 1	
Title	C114/8	as Inspector				Date:	2123 1	7013
Field Reviewed?	N'A F.	(V) Yes			() No		
17.1	4 15 .	X			(, 110		

Page 1

Reclamation Plan For: M.J. Rathbone No. 150 NOTE REFER TO THE WVDEP **EROSION AND SEDIMENT CONTROL** FIELD MANUAL VER. MAY 2012 FOR BMPs CONTROLLING EROSION AND SEDIMENT FROM SOIL-DISTURBING OPERATIONS. Existing Vegetative Filter Strip To Hall's Run SEA 11 Fill Area Hilary Heights, LTD - Surface Owner 150 ¹⁵¹ ²⁴⁹ 0 0 Area Cut Michael & Lori Nardella - Surface Owners 150' of 18-20% Grade See Pages 2 & 3 for Road See Pages 70 County Road Existing Roads Notes: REQUESTED PERMIT IS FOR DRILLING OF NEW WELL. JAN 03 2014 ACCESS ROADS FROM COUNTY ROAD TO PT. ARE EXISTING. ROADS WILL BE UPGRADED TO WVDEP STANDARDS AND STRUCTURES WV Department of INSTALLED AS SHOWN ON ACCOMPANYING PAGES. ALL DISTURBED AREAS WILL BE RE-VEGETATED AS OUTLINED Environmental Projection ON FORM WW-9. MAINTAIN SEDIMENT BARRIERS AND DRAINAGE STRUCTURES. ALL ROAD GRADES <5% EXCEPT AS NOTED.

LOCATION OF DRILL PIT MAY BE CHANGED BASED ON

AS-BUILT CONSIDERATIONS.

DRAWING NOT TO SCALE.

