

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 03, 2014

WELL WORK PERMIT

Secondary Recovery Well

This permit, API Well Number: 47-3305804, 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.N. FURNO NO. 149

Farm Name: MUTSCHELKNAUS, CLARENCE

API Well Number: 47-3305804

Permit Type: Secondary Recovery Well

Date Issued: 02/03/2014

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 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		Ι	December	4, 2013	
2) Operator's Wel	l No.	J	. N. Furr	no No. 14	9
3) API Well No.	47	-	033	-	
-	State		County		Permit
4) UIC Permit No		τ	JIC2R033	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) WELL TYP	E:	Liqui	id Injectio	n X	_	Gas Inje	ction (not	storag	ge)	_ Waste I	Disposa			
6) LOCATION		Elevation			<u> </u>		Watersh	_	37.5	lile Creek				
	Distric		Tenmil	e 00	<u> </u>	untyI	Iarrison	33		Quadrangle		Salem 7.5'	596	
7) WELL OPE	RATOR:		ergy, LLC		494497	7948 8) DESIGI	VATEI	DAGENT		ce Kirso			
			ipont Roa burg, WV			-						nt Road		
		_		X-1				12			kersbu	rg, WV 26	101	_
) OIL & GAS		e Sam Wa		ED:		1	0) DRILI	ING C	CONTRAC					
		s P. O. Bo				_			Name					_
		_	nnon, WV	26201		_			riuures	·				_
1) PROPOSEI	WELL W	ORK.	Dri	ı x		Drill Dec	ener		Redril	1 54:	mulate	X		
,		0.1111			Old Forma			orate l	New Forn			Convert		_
			Other	Physic	cal Chang	e in Well (spec	cify)					-		
Geological t	arget form	ation		Fifth	Sand	D	epth		3,190	Ft. (Top) to		3,196 F	t. (Botton	n)
B) Estimated d	lepth of co	mpleted w	ell (or act	ual dep	th of exist	ing well)	332	5' TMI)	Ft.			Si	3/
4) Approximat	e water st	rata depth	is:	Fresh	1	250	Ft.			Salt	1,45	0 F	t. 17	12
5) Approximat	e coal sear	n depths:			692		Ft.						12	1-
3) Is coal being	mined in	the area?			Y	es		X	No				Mi	17 (
7) Virgin reser				ion:			1,250		psig.	Source		Estimated		
B) Estimated r	eservoir fr	acture are	ecuro.				2,650		-			Botimatec		_
9) MAXIMUM				ED Ami	OMC.	37-1		DDI	psig.	D II 1 D		14.	4.4	
				0000000000	5.50 0.63	Volume per h	_	BBL		Bottom Hole Pr			00 psi	_
						NJECTED, IN nd improve oil			DITIVES	Fresh water,	produc	ed water,	bactericid	les
i) FILTERS (I						oal bed filters	recovery	-						-
		CATHOL			10.000772107	THER CORR	OCIONIC	ONTO	101	_				-
z) SPECIFICA	11014 FOI	CAIRO	DIC PROT	ECITO	IN AND C	THER CORR	OSION C	ONTH	COL					-
B) CASING AN	ID TUBIN	G PROGR	AM										-	_
ASING OR		SPECI	FICATIO	NS		FOOTAGI	z INTER	VALC		CEMENT FILE	LID	DAC	KERS	
UBING TYPE	Size	Grade	Weight	New	Used	For Drilling		eft in	Well	OR SACKS (CU		PAC	KERS	
onductor		1 3								(5)		Kinds	(ED)	-
esh Water	7"	L.S.	17#	X		770'		770'		Cement to Surfa		Tension	1511	
oal					5							Sizes	sing 6	id
termediate												2.375" x 4.		
roduction	4 1/2"	J-55	10.5#	X		3,325		3325		150 sacks	1000	Depths Se	7 DO	
nbing ners	2 3/8"	J-55	4.6#	X		3125'		3125		Ho		3025' Perforation		4
11015												Por D.	ALC: N	3
										F38	1	oil and a	as ali	00
								_				oil and G	al Protect	
) APPLICANT	SOPERA	TING RIG	HTS were	acquir	red from	Jo	hn H. Fu	rner et	ux		Office C	TONTHER		_
by Deed		Lease	X	Ot	her Contr	act	Date	i	June 13	, 1916	al of E	of record in	the	
		Harrison		County	y Clerk's (Office in			Book	260 vat Pa	_	62		

WW-3A 10/07

5) Surface Owner(s) To Be Served



CK241	20			
1) Date: \ 0	9	December	4, 2013	
2) Operator's We	ell No.	J. N. Furr	10 No. 14	19
3) API Well No.	47	033		
	State	County		Permit
A THO Dame it N		THOOPING	011D	

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

7 (a) Coal Operator

75 (400)	Clarence & Mary Mutschelknaus		Name	NA
Address	170 E Main Street		Address	
	Salem, WV 26426			
(b) Name	Edgar Lee & Becky Myers	7 (b)	Coal Owner(s)	With Declaration Of Record
Address	RR 4, Box 532		Name	NA
_	Salem, WV 26426		Address	
(c) Name				
Address			Name	
_			Address	
3) Inspector	Sam Ward	7(c) (Coal Lessee Wi	ith Declaration Of Record
Address	P. O. Box 2327			Wolf Run Mining Co.
	Buckhannon, WV 26201		_	2708 Cranberry Square
Telephone	389-7583		-	Morgantown, WV 26505
sets out the) The plat (su) The Constru	tion for a Liquid Injection or Waste Disposal W parties involved in the drilling or other work; rveyor's map) showing the well location on For ction and Reclamation Plan on Form WW-9 (up the plan for erosion and sediment control as	rm WW	7-6; and the well wor	k is only to plug a well),
sets out the The plat (su The Constru Which sets o date propose E REASON YO HICH ARE SUM E NOT REQUIRE	parties involved in the drilling or other work; rveyor's map) showing the well location on For ction and Reclamation Plan on Form WW-9 (u ut the plan for erosion and sediment control and for the first injection or waste disposal is U RECEIVED THESE DOCUMENTS IS THAT YO MARIZED IN THE "INSTRUCTIONS" ON FORM RED TO TAKE ANY ACTION AT ALL.	rm WW unless t nd for r To be U HAVI WW-3(A	7-6; and the well wor. reclamation e determine E RIGHTS R. A) DESIGNA	k is only to plug a well), for the site and access road. d EGARDING THE APPLICATION TED TO YOU. HOWEVER YOU
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sets out the) The plat (su) The Construction which sets out e date propose E REASON YOUTH ARE SUM E NOT REQUIT e notice that undedication and accompronmental Prote for Copies of this iffed mail or delively to ertify under penal iliar with the info	parties involved in the drilling or other work; rveyor's map) showing the well location on For ction and Reclamation Plan on Form WW-9 (up to the plan for erosion and sediment control and defor the first injection or waste disposal is URECEIVED THESE DOCUMENTS IS THAT YOW MARIZED IN THE "INSTRUCTIONS" ON FORM RED TO TAKE ANY ACTION AT ALL. For Chapter 22-6 of the West Virginia Code, the undersigned in panying documents for a Well Work Permit with the Chieftion, with respect to a well at the location described on the Notice, the Application, the plat, and the Construction and ered by hand to the person(s) named above (or by publicat the Chief. The person signing this document shall make the	rm WW unless t nd for r To be U HAVI WW-3(A d well op ef of the e e attache d Reclam ion in cer	V-6; and the well work reclamation e determine E RIGHTS R. A) DESIGNA perator propose Office of Oil and ed Application nation Plan have retain circumsta	k is only to plug a well), for the site and access road. d EGARDING THE APPLICATION TED TO YOU. HOWEVER YOU s to file or has filed this Notice and ad Gas, West Virginia Department of and depicted on the attached Form re been mailed by registered or ances) on or before the day of the on:

Oil and Gas Privacy Notice

and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment."

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

By:

Its:

Signature

Diane C. White

iane CWhite

Accountant

W	W.	2B	1
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Well No. J. N. Furno No. 149	Well No.	J. N.	Furno	No.	149
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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 p	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 1000' of proposed well but many water sources have been tested in conjunction with this Wolf Summit drilling program

Earl & Belva Junkins	Brian Huffman	Susan Junki	ins	Gary Winte	rs & Ruth Kennedy	Claude & Jean Tetrick
RR 5, Box 1226	RR 4, Box 530	RR 2, Box	119A	RR 2, Box	119	RR 2, Box 40
Salem, WV 26426	Salem, WV 26426	Bristol, WV	26426	Bristol, WV	26426	Bristol, WV 26426
					o Ci	RR 2, Box 40 Bristol, WV 26426
John & Brenda Scotchie	Linda Smith		Dennis M	cAvey	Mazza Donna Deverio	ks C.U.S
RR 2, Box 42	9046 Westville I	Drive	RR 2, Bo	x 41	RR 2, Box 80	1011 3 3 6 6
Salem, WV 26426	Camden Wyomi	ng, DE 19934	Bristol, W	V 26332	Bristol, WV 26332	JAM 30 22/;
Additional testing author	ized on 5/12/2012:					
Additional testing author	12cu on 3/13/2013.					18 July 18 18 18 18 18 18 18 18 18 18 18 18 18

Oville Myers **Daniel Southern** Edith Jean Myers Edgar Lee Myers RR 4, Box 531 RR 4, Box 540 RR 4, Box 532 RR 4, Box 534 Salem, WV 26426 Salem, WV 26426 Salem, WV 26426 Salem, WV 26426

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Rev.	10/94

	Page_	3	of	3
API Nu	mber 47-	033	•	
Operator's Well No.	J. N. F	urno N	o. 149	

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 4944	97948
Watershed	Ten Mile C			Quadrangle	Salem 7.5'	
Elevation	1338'	County	Harrison	District	Tenmile	•
Description of	anticipated Pit Waste:	Fluids enco	untered in drilling shal	low well.		
Do you anticipa	ate more than 5,000 bbls o	of water to comp	plete the proposed well w	orl Yes	No X	SDW
Will a syntheti	c liner be used in pit?	Yes	If so, what mil.?	20 Mil.		12/23/20
Proposed Dispo	Reuse (at AP	ition l Injection (UIC I Number	Permit Number	ation)		M&G
•	m anticipated for this well If oilbased, what type? Sy	l? Air, fresh wa enthetic, petrole	· · · · · · · · · · · · · · · · · · ·	r, Fresh Water		
-]	isposal method? Leave in If left in pit and plan to so Landfill or offsite name/po	lidify, what me		nt, lime, sawdust <u>l</u>	Native soil, cement	, lime
issued on Augusthat the provisi applicable law of I of this application for obtaining th	certify that I understand a st 1, 2005, by the Office of ions of the permit are enfo or regulation can lead to e certify under penalty of la form and all attachments the information, I believe the bmitting false information	Oil and Gas of creeable by law. nforcement act we that I have per thereto and the the information of the communication of the information.	the West Virginia Depar Violations of any term or ion. ersonally examined and a at, based on my inquiry o tion is true, accurate and	tment of Environment condition of the gent manifiar with the f those individuals is complete. I am awar	ntal Protection. I und eral permit and/or of information submitt mmediately responsi	derstand ther ed on ble
Company Offi	cial Signature		Diane Ch	Shite		
Company Offic	cial (Typed Name)		Diane C. White		riec	elved
Company Offic	cial Title		Accountant			
					JAN _	2 2014
Subscribed an	d sworn before me this	Pette	day of Docom	***	Office of O WW Dept: of Environ	il and Gas Imental Protection OFFICIAL SEAL
My commissio	10.	0012,0	ロタ		STATE	OTARY PUBLIC OF WEST VIRGI
Form WW-9				1. 6.	52	VA L. PETH TEL IGÆnergy, LLC 160 Dupont Road Irg, West Virginia 26 sion Ek <u>pir</u> es Nov. <u>1</u> 2

Property Boundary

Legend

Diversion

	Road		Spring	\bigcirc
	Existing Fence	_xxx-	Wet Spot	74
	Planned Fence	////	Drain Pipe	
			Waterway	
	Stream	1-7 1-7		
	Open Ditch	~~~~	Cross Drain	
	Rock	2000 B	Filter Strip	XXXXXXXXXX
			Pit: Cut Walls	Cy , will
	North	N	71.6	
	Buildings		Pit: Compacted Fill Walls	\(\frac{1}{2}\)
	Water Wells	(W)		
	Drill Site	\bigcirc	Area of Land Application	
	Dilli Site		of Pit Waste	
	Land			
		F	Area I	
Proposed P	Revegetation Treatmen	t: Acres Disturbed Approx	x. 1.0 Ac. Pre	vegetation pH
		A	rea II	
		, Approx	x. 1.0 Ac.	
	Lime	2 Tons/Acre or	Correct to pH 6.5	
	-		500 Lbs./Acre (500 I	bs. Minimum)
	Mulch			27.15 - 5147.3-144.05
		CHEED A	ALE ALCOHOL THE RES CO	
		SEED IV	<u>IIXTURES</u>	
	Area I	(Location)		Area II (Road)
	ed Type	Lbs/Ac.	Seed Type	Lbs/Ac.
Tal	l Fescue	<u>40</u> 5	Tall Fescue	40
-				
-	dino Clover	3	Ladino Clover	5
-	iino Clover		Ladino Clover	
-	dino Ciover		Ladino Clover	
Lad	aino Ciover		Ladino Clover	
Attach:		and proposed area for land applicat		Peceived
Attach: Drawing(s)		and proposed area for land applicat		Peceived
Attach: Drawing(s)	of road, location, pit a	and proposed area for land applicat		Peceived
Attach: Drawing(s) Photocopie	of road, location, pit a	and proposed area for land application of the section of the secti		Peceived
Attach: Drawing(s) Photocopie	of road, location, pit and section of involved	and proposed area for land applicated for land	ion Mich	Deceived JAN - 2 2014 JAN - 2 2014 Office of Oil and Gas Office of Oil and Gas Av Den of Environmental Protection
Attach: Drawing(s) Photocopie	of road, location, pit and section of involved of poproved by:	and proposed area for land applicate 7.5' topographic sheet. Wardti ed/Mulch alldistuck	ion Mich	Deceived JAN - 2 2014 JAN - 2 2014 Office of Oil and Gas Protection office of Oil and Gas Protection office of Oil and Gas Protection office of Oil and Gas office of Oil and Oil
Attach: Drawing(s) Photocopie	of road, location, pit and section of involved for sec	and proposed area for land applicated 7.5' topographic sheet.	ion Mich en areas as soon R EdS as necess	JAN - 2 2014 JAN - 2 2014 Office of Oil and Gas Office of Oil and Oil a
Attach: Drawing(s) Photocopie	of road, location, pit and section of involved of popoved by: Comments: Pre-Section OF Pre-Sect	and proposed area for land applicated 7.5' topographic sheet.	ion Mich en areas as soon R EdS as necess	Date: 12/23/2013





