

### 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 04, 2014

### WELL WORK PERMIT Secondary Recovery Well

This permit, API Well Number: 47-3305802, 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.M. FULTZ NO. 147

Farm Name: MYERS, EDGAR LEE JR.

API Well Number: 47-3305802

Permit Type: Secondary Recovery Well

Date Issued: 02/04/2014

## **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	December 4, 2013				
2) Operator's Well	No.	J	. M. Fultz	No. 147	
3) API Well No.	47	-	033		
-	State		County		Permit
4) UIC Permit No.		U	IC2R033	01AP	

# 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	L:	Liqui	id Injectio	n X		Gas Inject	ion (not s	torage)		Waste	e Disposa	al	
6) LOCATION	I: -	Elevation				v	Vatershed	1	Ten Mil	e Creek			
	Distric	et	Tenmile	00	Coun	ity Ha	arrison	33		Quadrangle		Salem 7.5'	596
7) WELL OPE	RATOR:	HG Ene	rgy, LLC		49449794	18 8)	DESIGNA	ATED A	GENT:	N	like Kirs	sch ·	
			ipont Road						-			ont Road	
		Parkers	burg, WV	26101						P	arkersbu	ırg, WV 261	01
9) OIL & GAS				ED:		10)	DRILLI:	NG CON	VTRACT	OR:			
		s P. O. Bo				_			Name_				
	Addres		nnon, WV	26201		-		A	ddress_				
11) PROPOSED	WEITW	-	Dril			— D :11 D			-				
II) INOIOSED	WEDD W	OKK:			d Formatio	Drill Deep			Redrill v Format		Stimulate		
						n Well (speci		ate Iven	roimai			Convert	
12) Geological ta	arget form	ation		Fifth S	and	De	pth	3,1	90 F	t. (Top) to		3,199 Fr	t. (Bottom)
13) Estimated d	epth of cor	mpleted w	ell (or acti	ial deptl	of existing	g well)	3325'	TMD		Ft	t.		SOU
14) Approximate	e water str	ata depth	s:	Fresh		200	Ft.			Salt	1,3	85 Ft	12/25
15) Approximate	e coal sean	n depths:			621		Ft.			_			MAC
16) Is coal being	mined in	the area?			Yes	27		X N	No				,
17) Virgin reser	voir pressi	ire in targ	et formati	on:			1,250	p	sig.	Source	-	Estimated	
18) Estimated re	eservoir fr	acture pre	ssure:				2,650	n	sig.	1111			
19) MAXIMUM	PROPOSE	D INJEC	TION OPI	ERATIO	NS: Vo	olume per ho	ur 25 I	1		ottom Hole ]	Duasanna	9.40	0
20) DETAILED						Sales Sales Sales	_	_					0 psi
and other ch	emicals as	needed to	maintain	water q	uality and	improve oil r	ecovery.	ADDII.	TAES -	rresn wate	er, produ	ced water, b	actericides
21) FILTERS (IF	ANY)		Cartridge	filters	and/or coal	bed filters							
22) SPECIFICAT	IION FOR	CATHOL	DIC PROT	ECTION	I AND OTH	HER CORRO	SION CO	NTROL					
				CONTRACTOR OF THE PARTY					_				
23) CASING AN	D TUBING	G PROGR	AM										
CASING OR		SPECII	FICATION	IS		FOOTAGE	INTERV	ALG		CEMENT FI	TIID	PACE	ZEDO
TUBING TYPE	Size	Grade	Weight	New	Used F	or Drilling		ft in Wel		R SACKS (C		FACE	CLIC
Conductor										,		Kinds	
resh Water	7"	L.S.	17#	X		700'		700'	Ce	ement to Sur	rface	Tension	
Coal												Sizes	
ntermediate											-	2.375" x 4.5	n
roduction	4 1/2"	J-55	10.5#	X		3,325		3325'	15	0 sacks	Mbu	Depths Set	
1.1.	2 3/8"	J-55	4.6#	X		3125'		3125'		Offic		3025'	Gas
			_		_							Perforation	
											-1127	Top Bot	tom
											139(13)		, com
Cubing Liners											JAN	15 2014	
iners	SOPERA	FING RIG	HTS ware	acquire	d from	Tohy	M Fult			VA/A	JAN Don		
	S OPERAT	FING RIG	HTS were		d from		M. Fultz		ugust 15	WV	/ Dep		t of

WW-3A 10/07



1) Date:		December	4, 2013		
2) Operator's We	ell No.	J. M. Fult	z No. 14	7	
3) API Well No.	47	033			
	State	County		Permit	
4) UIC Permit N	lo.	UIC2R033	301AP		

STATE OF WEST VIRGINIA

		PROTECTION,	Lt.
5) Surface Owner	/	7 (a) Coal Operator	C/41
(a) Name	Edgar Lee Myers	Name	NA (Q)
Address	RR 4, Box 532	Address	
_	Salem, WV 26426		
(b) Name	Earl & Belva Junkins	7 (b) Coal Owner(s)	With Declaration Of Record
Address	515 Still House Road	Name	NA
	Salem, WV 26426	Address	
(c) Name			
Address		Name	
_		Address	
-			
6) Inspector	Sam Ward	7(c) Coal Lessee W	ith Declaration Of Record
Address	P. O. Box 2327		Wolf Run Mining Co.
7	Buckhannon, WV 26201		2708 Cranberry Square
Telephone	389-7583		Morgantown, WV 26505
which sets The date propos THE REASON YOU WHICH ARE SUI ARE NOT REQUI Take notice that und Application and accomplication accomplication accomplication accomplication and accomplication accomplication accomplication accomplication accomplication accomplication accomplication accomplication accomplication accomplicat	uction and Reclamation Plan on Form WW-9 (upout the plan for erosion and sediment control and sed for the first injection or waste disposal is DU RECEIVED THESE DOCUMENTS IS THAT YOU MMARIZED IN THE "INSTRUCTIONS" ON FORM VIRED TO TAKE ANY ACTION AT ALL.  The Chapter 22-6 of the West Virginia Code, the undersigned companying documents for a Well Work Permit with the Chie ection, with respect to a well at the location described on the s Notice, the Application, the plat, and the Construction and ivered by hand to the person(s) named above (or by publication the Chief.	To be determine U HAVE RIGHTS R WW-3(A) DESIGNA I well operator propose of of the Office of Oil ar e attached Application Reclamation Plan have	EGARDING THE APPLICATION TED TO YOU. HOWEVER YOU es to file or has filed this Notice and and Gas, West Virginia Department of and depicted on the attached Form we been mailed by registered or
	The person signing this document shall make the	following certification	on:
or		Well Operator	HG Energy, LLC
I certify under pen	alty of law that I have personally examined and am	Wen operator	Tro Energy, Elec
	alty of law that I have personally examined and am formation submitted in this document and all attachments	Address	5260 Dupont Road
amiliar with the in			
amiliar with the in and that, based on r or obtaining the inf	formation submitted in this document and all attachments my inquiry of those individuals immediately responsible formation, I believe that the information is true, accurate	Address	5260 Dupont Road Parkersburg, WV 26101
amiliar with the in- and that, based on r or obtaining the inf and complete. I am	formation submitted in this document and all attachments my inquiry of those individuals immediately responsible formation, I believe that the information is true, accurate aware that there are significant penalties for submitting	Address By:	5260 Dupont Road Parkersburg, WV 26101  Diane C. White
amiliar with the in and that, based on r or obtaining the inf and complete. I am	formation submitted in this document and all attachments my inquiry of those individuals immediately responsible formation, I believe that the information is true, accurate	Address	5260 Dupont Road Parkersburg, WV 26101
amiliar with the in and that, based on r or obtaining the inf and complete. I am	formation submitted in this document and all attachments my inquiry of those individuals immediately responsible formation, I believe that the information is true, accurate aware that there are significant penalties for submitting	Address By:	5260 Dupont Road Parkersburg, WV 26101  Diane C. White Accountant
amiliar with the int and that, based on r or obtaining the inf and complete. I am	formation submitted in this document and all attachments my inquiry of those individuals immediately responsible formation, I believe that the information is true, accurate aware that there are significant penalties for submitting	Address By:	5260 Dupont Road Parkersburg, WV 26101  Diane C. White

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

ww	-2R	1

Well No. J	ſ. M.	<b>Fultz</b>	No.	147
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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 RR 5, Box 1226 Salem, WV 26426	Brian Huffman RR 4, Box 530 Salem, WV 26426	Susan Junki RR 2, Box Bristol, WV	119A	Gary Wint RR 2, Box Bristol, W		Claude & Jean Tetrick RR 2, Box 40 Bristol, WV 26426
John & Brenda Scotchie RR 2, Box 42 Salem, WV 26426	Linda Smith 9046 Westville I Camden Wyomi		Dennis M RR 2, Box Bristol, W	κ <b>4</b> 1	Mazza Donna Devericks RR 2, Box 80 Bristol, WV 26332	RECEIVED Cilica of Ciliand Cas
Additional testing author	ized on 5/13/2013:					JAM 9.3.2014

NOVE of entacent of Environmental Protoction Edgar Lee Myers Edith Jean Myers Oville Myers Daniel Southern RR 4, Box 534 RR 4, Box 532 RR 4, Box 540 RR 4, Box 531 Salem, WV 26426 Salem, WV 26426 Salem, WV 26426 Salem, WV 26426

Form	WW-9
Rev. 1	0/94

		Page	3	of	3
	AF	I Number 47-	033	-	
Operat	or's Well No.	J. M.	Fultz No	. 147	

## 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		LGC			^	P Code 4944	1050.10
Watershed -	HG Energy, Ten Mile Cr				Quadrangle	Salem 7.5'	197948
Elevation	1281'	County	Harrison	·	District	Tenmile	
Description of antici	pated Pit Waste:		untered in drilling			Tennine	
Do you anticipate me	ore than 5,000 bbls of				Yes	No X	
Will a synthetic line	r be used in pit?	Yes	If so, what mil.?	20	Mil.		SDW 12/23/20
	lethod For Treated Pi		<del>-</del>	,	Walter Commencer		MAG
	Land Applicat		Permit Number				,
	Reuse (at API		Termit Humber				)
-	Off Site Dispo	sal (Supply For	m WW-9 for dispos	al location	1)		
		Explain			**************************************		)
	icipated for this well?		-		resh Water		***
- 1f oilb Additives to be used?	ased, what type? Syr Water, Soap	· -	um, etc.	NA			
	al method? Leave in p		noved offsite, etc.				
	in pit and plan to soli		_	Cement, li	me, sawdust N	ative soil, cement	i, lime
- Landfi	ill or offsite name/per	mit number?					····
issued on August 1, 2	that I understand ar	Oil and Gas of i	the West Virginia D	epartmen	t of Environment	al Protection. I un	derstand
issued on August 1, 2 that the provisions of applicable law or regu I certify this application form for obtaining the infor- cenalties for submitti	2005, by the Office of C I the permit are enforced ulation can lead to en- runder penalty of law and all attachments of trmation, I believe that ing false information,	Oil and Gas of a ceable by law. I forcement action that I have pe thereto and that the information	the West Virginia D Violations of any ten on. rsonally examined a tt, based on my inqu ion is true, accurate obssibility of fine or	epartmen orn or cond and am fa- tiry of thos and comp imprison	t of Environment lition of the gener miliar with the in se individuals im plete. I am aware	al Protection. I und ral permit and/or o nformation submitt mediately responsi	derstand ther ed on ble
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#### WW9\_Back

### Legend

Property Boundary	
Road	========
Existing Fence	xx
Planned Fence	_//_
Stream	1-7 1-7
Open Ditch	>
Rock	000 PC 00
	N
North	14
Buildings	and the same of th
Water Wells	W
Drill Site	<b>(1)</b>
L	

Diversion Spring Wet Spot Drain Pipe Waterway Cross Drain Filter Strip Pit: Cut Walls Pit: Compacted Fill Walls Area of Land Application of Pit Waste

Proposed Revegetation Treatment: Acres Disturbed	Area Approx.	I 1.0 Ac.	Prevegetation pH	
Troposodite registration	Area Approx.	II 1.0 Ac.		
Lime 2 Fertilizer (10-20-20 or Equive	Tons/Acre or Co	rrect to pH  Lbs./Ac	6.5 ere (500 lbs. Minimum)	
Mulch Straw	2 Tons/Ac	re		
	SEED MIX	KTURES		
			A - II (Dood)	

Lbs/Ac.		Seed'
40		Tall F
. 5		Ladino
	Lbs/Ac.	Lbs/Ac.

Type escue o Clover

1	1	t	ta	a	C	r	1	•

Drawing(s) of road, location, pit and proposed area for land application Photocopied section of involved 7.5' topographic sheet.

Office of Oil and Gas
Office of Environmental Protection

Plan approved by: 50 Dwarston	Michael D Roff
Comments: Pre-seed/nulch all disturbed ares	as as soon as reosmobly possible per
Title: () It Gas Inspector	Date: 12 (23/2013

Field Reviewed?

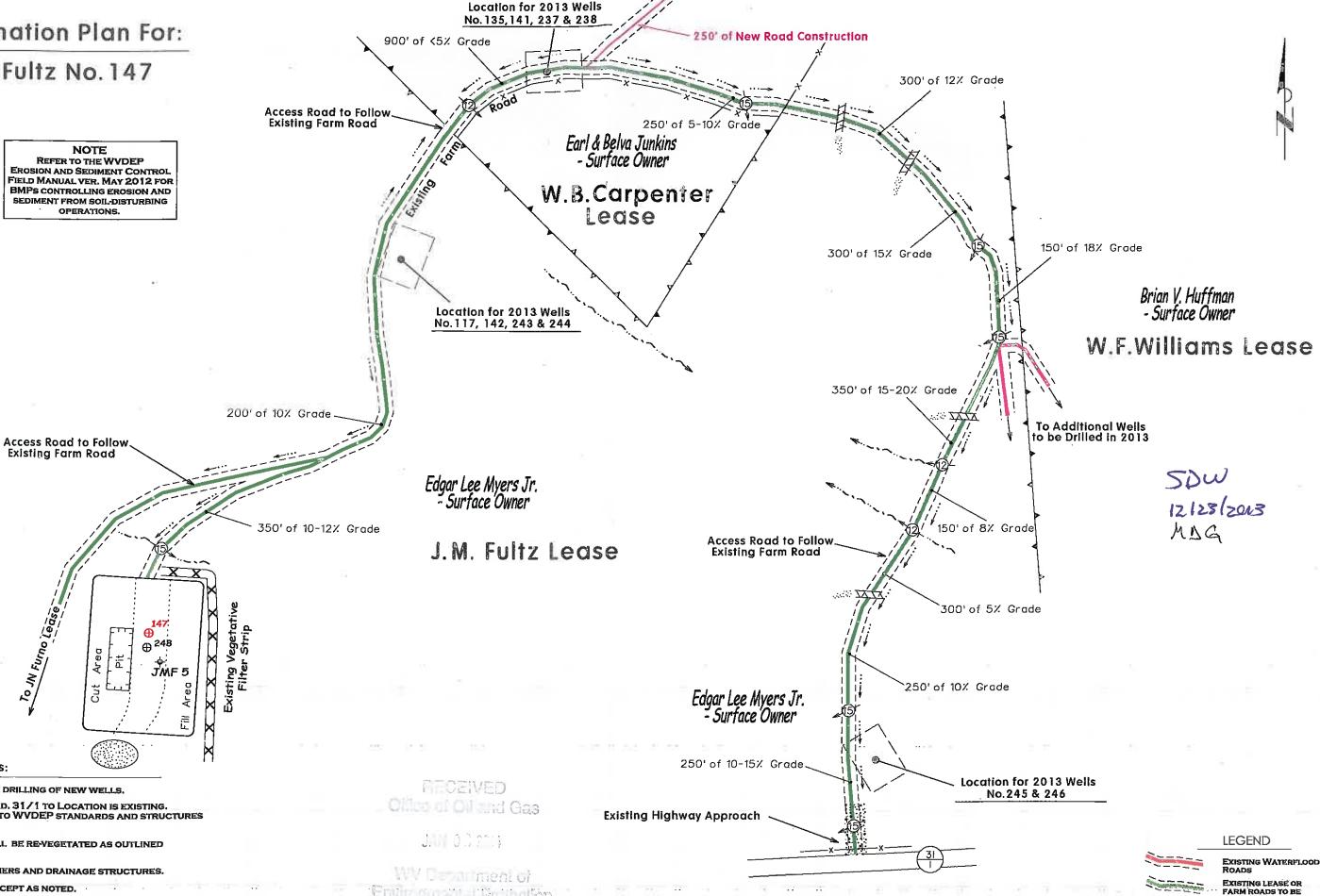
) No

## Reclamation Plan For:

J.M. Fultz No. 147

### NOTE

REFER TO THE WYDEP **EROSION AND SEDIMENT CONTROL** FIELD MANUAL VER. MAY 2012 FOR BMPs CONTROLLING EROSION AND SEDIMENT FROM SOIL-DISTURBING OPERATIONS.



- Notes: REQUESTED PERMIT IS FOR DRILLING OF NEW WELLS.
- ACCESS ROAD FROM CO. RD. 31/1 TO LOCATION IS EXISTING.
   ROAD WILL BE UPGRADED TO WVDEP STANDARDS AND STRUCTURES
- ALL DISTURBED AREAS WILL BE RE-VEGETATED AS OUTLINED
- MAINTAIN SEDIMENT BARRIERS AND DRAINAGE STRUCTURES.
- ALL: ROAD GRADES <5% EXCEPT AS NOTED.
- O LOCATION OF DRILL PIT MAY BE CHANGED BASED ON AS-BUILT CONSIDERATIONS.
- O DRAWING NOT TO SCALE.

UPGRADED. NEW ROADS TO BE CONSTRUCTED

02/07/2014

