

### 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

July 17, 2013

# WELL WORK PERMIT

### Secondary Recovery Well

This permit, API Well Number: 47-3305753, 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 teel free to contact me at (304) 926-0499 ext. 1654.

James Martin

Chief

Operator's Well No: T.J. CHAPLAIN #144

Farm Name: MYERS, EDITH JEAN

API Well Number: 47-3305753

Permit Type: Secondary Recovery Well

Date Issued: 07/17/2013

# 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.



1) Date	May 14, 2013				
2) Operator's Well	No.	T. J. Chaplain No. 144			
3) API Well No.	47	-	033		
_	State		County		Permit
4) UIC Permit No.		τ	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	Injection	X		Gas Inject	ion (not stora	age)	Waste Disp	osal
6)	LOCATION:	I	Elevation	1290'			V	Vatershed	Branc	h of Lick Run	
,		District		Tenmile	oa	Co	untyHa	arrison 🥳	3	Quadrangle	Salem 7.5' 596
7)	WELL OPERAT	OR:	HG Ener	gy, LLC		494497	948 8)	DESIGNATI	ED AGENT	: Mike K	Eirsch
			5260 Dup	ont Road							upont Road
			Parkersb	urg, WV 2	6101					Parker	sburg, WV 26101
9)	OIL & GAS INS	PECTO	R TO BE	NOTIFIE	D:		10)	DRILLING	CONTRAC	CTOR:	
			Sam War						Name	e	
	A	Comments of the same	P. O. Box						Addres	s	
			Buckhan	non, WV 2	26201						
11)	PROPOSED WE	ELL WO	RK:	Drill	X		Drill Deep	per	Redril	I Stimu	
						ld Forma		The second secon	e New Forn	nation	Convert
				Other:	Physic.	al Chang	e in Well (speci	fy)			
12)	Geological targe	t forma	tion		Fifth S	Sand	De	pth	3,204	Ft. (Top) to	3,212 Ft. (Bottom)
13)	Estimated depth	of com	pleted we	ll (or actu	al dept	h of exist	ting well)	3000' TV	D 3350' T	MD Ft.	
14)	Approximate wa	ter stra	ata depths	:	Fresh		200	Ft.		Salt	1,390 Ft.
15)	Approximate coa	al seam	depths:			564'		Ft.			5
16)	Is coal being min	ned in t	he area?			7	l'es	X	No		51
17)	Virgin reservoir			et formation	on:			1,250	psig.	Source	Estimated
18)	Estimated reser	•	150001200					2,650	psig.	-	
19)	MAXIMUM PRO				PATIO	NS.	Volume per ho			Bottom Hole Press	sure 2,400 psi
-											
20)	DETAILED IDE								DDITIVES	Fresh water, pi	oduced water, bactericides
21)	FILTERS (IF A)					0.71	oal bed filters				
	SPECIFICATIO							OSION CON	TPOI		
22)	SPECIFICATIO	NTOR	CATHOL	nc Phot.	ECTIO	IN AIND	Jiiiii Collic	JOION CON	IROD	-	
23)	CASING AND T	UBING	PROGR	AM							
0.10					10		FOOTMACE	INTERVAL	C	CEMENT FILLU	JP PACKERS
	ING OR BING TYPE	Size	Grade	FICATION Weight	New	Used	For Drilling	Charles Carlos Carlos	in Well	OR SACKS (CU. I	SOUTH THE PARTY OF
100000	ductor	Size	Grade	weight	Ivew	Osea	For Diming	Dett	III WEII	ON BRIOND (CC.)	Kinds
2000	h Water	7"	L.S.	17#	X		639'	63	39'	Cement to Surface	
Coal		-	2.0.	2.11							Sizes
1 1 1 1 1 1 1 1 1 1 1	rmediate										2.375" x 4.5"
2000	AND ADDRESS OF THE PARTY OF THE	4 1/2"	J-55	10.5#	X		3350'	38	350'	150 sacks	Depths Set
Tub		2 3/8"	J-55	4.6#	Х		3050'	30	050'		2950'
Line						N HI					Perforations
											Top Bottom
						188					Received
_										Of	fice of Oil & Gas
24)	APPLICANTS C	DEBY	TING RIG	HTS war	acqui	red from	M	yers, Josephi	ine K		
41)		) I IIIII	Lease	X		ther Con	-	Dated		ry 01, 1900	of record in the
	by Deed			Λ			1000	Dated_			LUIS LUIS
			Harrison		Count	y Cierk's	Office in		Book	1248 at Page	320



1) Date:		May 14, 2013				
2) Operator's We	ll No.	T. J. Chap	olain No	o. 144		
3) API Well No.	47	033	100			
	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

Check# 2707
4 650

(a) Name	(s) To Be Served	7 (a) Coal Operator	
	Brian V. Huffman	Name	NA
Address	RR 4, Box 530	Address	
_	Salem, WV 26426		
(b) Name	Edgar Lee Myers, Jr.	7 (b) Coal Owner(s)	With Declaration Of Record
Address	RR 4, Box 532	Name	NA
_	Salem, WV 26426	Address	
(c) Name	Edith Jean Myers		
Address	RR4, Box 534	Name	
	Salem, WV 26426	Address	
, <del>-</del>	Salem, WV 26426		
3) Inspector	Sam Ward	7(c) Coal Lessee W	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
E REASON YO	ed for the first injection or waste disposal is OU RECEIVED THESE DOCUMENTS IS THAT YO	U HAVE RIGHTS R	EGARDING THE APPLICATION
RE NOT REQUI ke notice that und plication and acco vironmental Prote V-6. Copies of this tified mail or deli	MMARIZED IN THE "INSTRUCTIONS" ON FORM RED TO TAKE ANY ACTION AT ALL.  der Chapter 22-6 of the West Virginia Code, the undersigne ompanying documents for a Well Work Permit with the Chiection, with respect to a well at the location described on the Notice, the Application, the plat, and the Construction and vered by hand to the person(s) named above (or by publication).	d well operator propose ef of the Office of Oil ar the attached Application d Reclamation Plan ha	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
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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

WW-2B1

Well No.	T. J.	Chaplain	No. 144
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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 Nam	e 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.

Requests for Water Sampling were initiated 4/19/13 with the first permit applications of this group of 30 applications. Water testing/analysis was requested for:

Earl & Belva Junkins RR 5, Box 1226 Salem, WV 26426	Brian Huffman RR 4, Box 530 Salem, WV 26426	Susan Junki RR 2, Box 1 Bristol, WV	19A	Gary Wint RR 2, Box Bristol, W	V 26426	Claude & Jean Tetrick RR 2, Box 40 Bristol, WV 26426 Received
John & Brenda Scotchie RR 2, Box 42 Salem, WV 26426	Linda Smith 9046 Westville D Camden Wyomin		Dennis M RR 2, Box Bristol, W	x 41	Mazza Donna Devericks RR 2, Box 80 Bristol, WV 26332	Office of Oil & Gas

Form WW-9 Rev. 10/94

	Page	. 3	of		3
API	Number 47-	033	-		
Operator's Well No.	T. J. Ch	aplain l	No. 14	4	

# 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

V500 - 0 - 0 -	007	LLC	Ur	Code 494497948	
Watershed	Branch of Lie	ek Run	Quadrangle	Salem 7.5'	
Elevation	1290'	County Harrison	District	Tenmile	
Description of a	nticipated Pit Waste:	Fluids encountered in drilling sha	llow well.		
Do you anticipat	te more than 5,000 bbls of	water to complete the proposed well	-	No X	
Will a synthetic	liner be used in pit?	Yes If so, what mil.?	-10 Mil. 20 MI	L	0
Proposed Dispos	al Method For Treated Pi	t Wastes:			Si
_	X Land Applicat	The second secon			5
_	Reuse (at API	Injection (UIC Permit Number  Number			<del>)</del>
-		sal (Supply Form WW-9 for disposal	location)	NVI -	
_	Other (	Explain			)
Orilling medium	anticipated for this well?	Air, fresh water, oil based, etc.	Air, Fresh Water		
	foilbased, what type? Syr		A		_
Additives to be a				2 1 1 1 1 1 1 1	_
		pit, landfill, removed offsite, etc.  idify, what medium will be used? Ce	ment, lime, sawdust Na	ative soil, cement, lime	-
	andfill or offsite name/per				
hat the provision pplicable law o	ons of the permit are enfor r regulation can lead to en	nd agree to the terms and conditions Oil and Gas of the West Virginia Dep ceable by law. Violations of any term forcement action. v that I have personally examined an	partment of Environment n or condition of the gener	al Protection. I understand ral permit and/or other	
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## Legend

Property Boundary	AAAA	Diversion	
Road	====================================	.Spring	<b>○&gt;</b>
Existing Fence	xx	Wet Spot	\tag{\tau}
Planned Fence	//_	Drain Pipe	—— <u>(12)</u> ——>
		Waterway	←> ←> ←> ·
Stream		Cross Drain	7/1////////
Open Ditch	2500000	Filter Strip	XXXXXXXXX
Rock	2000 No. 1	Pit: Cut Walls	Current
•			
North	N.	Pit: Compacted	Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z
Buildings		Fill Walls	Trees !
Water Wells	\ . ₩	Area of Land	
Drill Site	$lackbox{}{\oplus}$	Application of Pit Waste	( , , , , , , , , , , , , , , , , , , ,
		<b></b>	
03	Area		
Proposed Revegetation Treatm	ent: Acres Disturbed Approx.		eyegetation pH
•	Area		
	Approx.	1.0 Ac.	
Lime	2 Tons/Acre or Co	errect to pH 6.5	
	zer (10-20-20 or Equivalent) 50		lbs. Minimum)
Mulch	0 0 4	re	
	SEED MI	varimire	
	SEEDIME	ATURES	
Δre	a I (Location)		Area II (Road)
Seed Type	Lbs/Ac.	Seed Type	Lbs/Ac.
Tall Fescue	40	Tall Fescue	<u>40</u> 5
Ladino Clover	5	Ladino Clover	
esets	The state of the s		
Attach:			•
Trawing(s) of road, location.	pit and proposed area for land application	1	•
Photocopied section of involve	ed 7.5' topographic sheet.		·

Upgrade EtS as necessary per WV DEP EtS Manue







