

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 10, 2013

WELL WORK PERMIT

Secondary Recovery Well

This permit, API Well Number: 47-3305775, 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: T.J. CHAPLAIN NO. 143

Farm Name: MYERS, EDITH JEAN

API Well Number: 47-3305775

Permit Type: Secondary Recovery Well

Date Issued: 07/10/2013

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. 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 20 mil thickness synthetic liner.

WW-3B 10/07



1) Date	N	Aay 15, 20	013						
2) Operator's Well No.			T. J. Chaplain No. 143						
3) API Well No.	47	-	033	-					
	State		County		Permit				
4) UIC Permit No		Ţ	ЛС2R033	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

						-				-	_	e Disposal		
6)	LOCATION:		Elevation	1286				Watershe	ed	Brancl	n of Lick Run			
		Distric	t	Tenmile	09	Cour	tyI	Harrison	33		Quadrangle		Salem 7.5'	596
7)	WELL OPER	RATOR:	HG Ener	rgy, LLC		49449794	18 8) DESIGN	IATED	AGENT		Mike Kirso	ch	
8 1				pont Road			-					5260 Dupo		
			Parkersl	ourg, WV	26101							Parkersbu	rg, WV 26101	
9)	OIL & GAS I	NSPECT	OR TO BE	NOTIFII	ED:		1	0) DRILL	ING C	ONTRAC	CTOR:			
		Name	e Sam Wa	rd						Name	1			
		Address	s P. O. Box				_			Address				
			Buckhan	non, WV	26201									
11)	PROPOSED	WELL W	ORK:	Drill	X		Drill De	eper		Redril		Stimulate	X	
						ld Formati			orate N	lew Forn	nation		Convert	
				Other	Physic	al Change i	n Well (spe	cify)			-			
12)	Geological ta	rget form	ation		Fifth S	Sand	Ι	Depth		3,079	Ft. (Top) to		3,087 Ft.	(Bottom)
13)	Estimated de	pth of cor	mpleted we	ell (or actu	ıal dept	th of existin	g well)	3000	'TVD	3225' T	MD :	Ft.		
14)	Approximate	water str	ata depth	s:	Fresh		200	Ft.			Salt	1,39	00 Ft.	
15)	Approximate	coal sean	n depths:			564'		Ft.						53U
16)	Is coal being	mined in	the area?			Yes	1		X	No				5/3/2
	Virgin reserv			et formati	on:			1,250		psig.	Source		Estimated	المار
	Estimated re	- T						2,650		psig.	-			7 18
	MAXIMUM F				ER ATIO	ONIS: V	olume per l		BBL	_ r-s-g.	Bottom Hole	Processivo	2,400	nei
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	DETAILED I and other che									DITIVES	Fresh wa	ater, produ	iced water, ba	actericides
21)	FILTERS (IF	ANY)		Cartridge	filters	and/or coa	l bed filters	Transco de						
	SPECIFICAT		R CATHOL			AVE SE			CONTE	ROL				
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23)	CASING ANI	TUBIN	G PROGR	AM										
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	NG OR	O.		FICATION		TT	17555-000-006-006-0	E INTER		XX7 11	CEMENT		PACK	ERS
100	NG TYPE	Size	Grade	Weight	New	Used	For Drilling	g I	eft in	Well	OR SACKS	(CU. FT.)	77. 3	
Condu		7"	L.S.	17#	X		639'		639'	- 34	Cement to S		Kinds	
Coal	Water		ь.ъ.	17#	Λ		639	- 1	639		Cement to S	ouriace	Tension Sizes	
	nediate										1			
Produ		4 1/2"	J-55	10.5#	X		3225'		3225	1	150 acales	ac.	2.375" x 4.5"	M/A - 1-4
Tubing		2 3/8"	J-55	4.6#	X		2925'	- GI ST	2925		150 sacks	eived	Depths Set 2825'	
Liners		2 3/0	0-00	4.0 #	Λ		2020	-	2020		Office of	Oil & G	Perforations	
Liners	3										0		Top Bot	
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-											- JUN	1 9 201.		
0.4)	A DDI TO A NIM	C ODED 4	MINIC DIC	TIMO			70.0	T T.		77				
24) A	APPLICANTS	OPERA						Iyers, Jose			01 1000			1
	by Deed_		Lease			her Contra		Date	α		y 01, 1900		of record in	
-			Harrison		County	Clerk's O	nice in			$-^{\mathrm{Book}}$	1248a	t Page	07792/20	013

WW-3A 10/07



1) Date:		May 15, 20	013		
2) Operator's We	ell No.	T. J. Chap	lain N	Vo. 143	-
3) API Well No.	47	033	(47)	05775	S
	State	County		Permit	
4) UIC Permit N	0.	UIC2R033	01AP		

Diane CWhite

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 Owner(s) To Be Served	7 (a) Coal Operator	
(a) Name Edith Jean Myers	Name	NA
Address RR4, Box 534	Address	
Salem, WV 26426	· ·	
(b) Name Brian V. Huffman	7 (b) Coal Owner(s) V	Vith Declaration Of Record
Address RR 4, Box 530	Name	NA
Salem, WV 26426	Address	
(c) Name Edgar Lee Myers, Jr.	-	
Address RR 4, Box 532	Name	
Salem, WV 26426	Address	
		-
6) Inspector Sam Ward	7(c) Coal Lessee With	n Declaration Of Record
Address P. O. Box 2327	: 	Wolf Run Mining Co.
Buckhannon, WV 26201	<u></u>	2708 Cranberry Square
Telephone 389-7583		Morgantown, WV 26505
TO THE PERSON(S) NAMED ABOVE: You should have a	received this forr	n and the following documents:
(1) The Application for a Liquid Injection or Waste Disposal We sets out the parties involved in the drilling or other work; (2) The plat (surveyor's map) showing the well location on Form (3) The Construction and Reclamation Plan on Form WW-9 (un which sets out the plan for erosion and sediment control and The date proposed for the first injection or waste disposal is THE REASON YOU RECEIVED THESE DOCUMENTS IS THAT YOU WHICH ARE SUMMARIZED IN THE "INSTRUCTIONS" ON FORM WARE NOT REQUIRED TO TAKE ANY ACTION AT ALL. Take notice that under Chapter 22-6 of the West Virginia Code, the undersigned Application and accompanying documents for a Well Work Permit with the Chiesen Environmental Protection, with respect to a well at the location described on the WW-6. Copies of this Notice, the Application, the plat, and the Construction and certified mail or delivered by hand to the person(s) named above (or by publication mailing or delivery to the Chief.	m WW-6; and lless the well work of for reclamation for the determined of the determined of the determined of the Office of Oil and the attached Application at Reclamation Plan have on in certain circumstants.	is only to plug a well), or the site and access road. GARDING THE APPLICATION ED TO YOU. HOWEVER YOU to file or has filed this Notice and ceived Gas, West Virginia Departmene of Oil & Gand depicted on the attached Form been mailed by registered or nees) on or before the day of the N 1 9 2013
The person signing this document shall make the full certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment."	Well Operator Address By: Its:	HG Energy, LLC 5260 Dupont Road Parkersburg, WV 26101 Diane C. White Accountant

Oil and Gas Privacy Notice

Signature

WW-2B1

Well No. T. J. Chaplain No. 143

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:

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.

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 Junkii RR 2, Box 1 Bristol, WV	19A	Gary Winter RR 2, Box 1 Bristol, WV		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	Drive	Dennis M RR 2, Box Bristol, W	x 41	Mazza Donna Devericks RR 2, Box 80 Bristol, WV 26332	Received Office of Oil & Gas
,		δ,	·		,	JUN 1 9 2013

Additional testing authorized for the TJ Chaplain leases on 5/13/2013:

Oville Myers	Daniel Southern	Edgar Lee Myers	Edith Jean 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

Form WW-9 Rev. 10/94

	Page	3	of	3
API	Number 47-	033		14
Operator's Well No.	Ť. J. Ch	aplain	No. 143	

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 Energ	v. LLC			OP	Code 4	04407040	
Watershed	Branch of				uadrangle		94497948	_
Elevation	1286'	County	Harrison	9	District	Salem 7	11.17	_
Description	of anticipated Pit Waste:	_	ntered in drilling sha	llow well	District_	rennn	ie	
Do you antic	cipate more than 5,000 bbls			AUTOMORPH TO THE PARTY OF THE P	s	No X		_
	etic liner be used in pit?	Yes	If so, what mil.?		20414			SDW
Proposed Di	sposal Method For Treated	Pit Wastes:				-		5/23/20
	XLand Appli							312
		nd Injection (UIC	Permit Number	100				<u>)</u>
	Reuse (at A	-	Man o c 1: 11				A THE SECTION ASSESSMENT	<u>)</u>
	Other	(Explain	rm WW-9 for disposal l	ocation)				`
Drilling med	lium anticipated for this we		ter oil based etc	Air, Fresh	Water			<u> </u>
	- If oilbased, what type?				water		77450	-
Additives to				A	Maria Cara Cara A	Name of the		_
Drill cuttings	s disposal method? Leave i		Company of the Compan				200	
	- If left in pit and plan to s		dium will be used? Cer	nent, lime,	sawdust Na	tive soil, cen	nent, lime	<u>-</u> 7
	- Landfill or offsite name/	ermit number?						_
applicable lav this applicati for obtaining	visions of the permit are en- w or regulation can lead to I certify under penalty of l ion form and all attachmen the information, I believe submitting false information	enforcement acti aw that I have po ts thereto and tha that the informat	on. ersonally examined and at, based on my inquiry ion is true, accurate an	l am famili of those in	ar with the in ndividuals im . I am aware	formation sub	mitted on	
Company O	fficial Signature		Diane Cle	Shite			Recei	ved iil & Gas
Company O	fficial (Typed Name)		Diane C. White			HOLD CR.TTS	Office of C	ui a das
Company O.	fficial Title		Accountant	THE STATE OF	- H	THE REST	HIM 1	2012
		· · ·		77.	4	1 1	- 00N I	2 ZUID
	Haracatty Lax President Company							=1,0
Subscribed a	and sworn before me this	16 Ima	day of M	14 á		tary Public		
My commiss	sion expires	Nov. 1	2. 2018		Processor.	Management of the same of the	**********	-21901 Andreas
Form WW-9	AND SECTION AND SECTION ASSESSMENT OF THE PERSON AND PARTY.				July OF W	ESTEE	OFFICIAL NOTARY P	SEAL
				, L 1 (F.) 2 (F.)		100	TINA L. PET	7 <mark>1/22/2004 3</mark> LLC
					The state of	My Cor	ersburg, West Vin nmission Expires	ginia 26101

WW9-Back

Legend

	Property Boundary	AAAA	Diversion		
	Road	=======================================	Spring	○>	
	Existing Fence	xx	Wet Spot	*	
	Planned Fence	<u> </u>	Drain Pipe		
	Stream		Waterway	\leftrightarrow	
	Open Ditch	>	Cross Drain		
	Rock	ર્જ જો કેલ્પ્રિક્	Filter Strip	XXXXXXXXX	
į	rook	228.92	Pit: Cut Walls		
r'	. North	N		will.	
	•		Pit: Compacted Fill Walls		
1.	Buildings Water Wells	(XXIII/N)			
		. •	Area of Land Application		
	Drill Site		of Pit Waste		
					_
**************************************		Are		evegetation pH	
Propos	ed Revegetation Treatm	ent: Acres Disturbed Approx. Area		0,020mmm h	
		Approx.	1.0 Ac		•
			65		
	Lime	2 Tons/Acre or Co		lbs. Minimum)	
i	Fertiliz Mulch	(10·20 20 0) mqm·m=m		,	
	Multion				
•		SEED MI	XTURES		
	Ares	ı I (Location)		Area II (Road)	
	Seed Type	. Lbs/Ac.	Seed Type	Lbs/Ac.	
	Tall Fescue	<u>40</u> 5	Tall Fescue Ladino Clover	5	
	Ladino Clover	3	Dadilo Ciore.		
Attacl	n:	to a second way for land application	n		
Drawi Photo	ing(s) of road, location, copied section of involv	pit and proposed area for land application ed 7.5' topographic sheet.			
. 12	lan approved by:	of DWardett.			
-	Comments: Pos	- Spector mulch, Upgrade Es	Sas necessary	PEC WU DEP ETS Manual.	
				Date: 5/23/2013	
	Title:	+ Gas Inspector		Date: 5/23/2015	
	Field Reviewed?	(X) Yes	()	No	
gumi	processing the second second section of the second	Marting region in 525, it services in the con-			
2	and the second			07/12/2	01:
1	Billion			J., 12/2	- • •
Ì	August Programme	•		the control of the co	**







