

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: 47-3305755, 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 #138

Farm Name: MYERS, ORVILLE JR. ET AL.

API Well Number: 47-3305755

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. 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. No land application of pit fluids.

WW-3B 10/07



1) Date		N	Iay 15, 20	13		
2) Operator's Well	No.	T	J. Chap	lain No	. 138	
3) API Well No.	47	-	033			
-	State		County		Permit	
4) UIC Permit No.		T	IIC2R033	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

Plug Off Old Formation Other Physical Change in Well (specify) Geological target formation Fifth Sand Depth 3,087 Ft. (Top) to 3,093 Ft. (Bottom) Estimated depth of completed well (or actual depth of existing well) Approximate water strata depths: Fresh 250 Ft. Salt 1,685 Ft. Approximate coal seam depths: G00 Ft. Is coal being mined in the area? Yes X No Virgin reservoir pressure in target formation: 1,250 psig. Bettimated reservoir fracture pressure: 2,650 psig. MAXIMUM PROPOSED INJECTION OPERATIONS: Volume per hour 25 BBL Bottom Hole Pressure 2,400 psi DETAILED IDENTIFICATION OF MATERIALS TO BE INJECTED, INCLUDING ADDITIVES and other chemicals as needed to maintain water quality and improve oil recovery. FILTERS (IF ANY) Cartridge filters and/or coal bed filters SPECIFICATION FOR CATHODIC PROTECTION AND OTHER CORROSION CONTROL CASING AND TUBING PROGRAM SING OR SPECIFICATIONS FOOTAGE INTERVALS CEMENT FILLUP PACKERS BING TYPE Size Grade Weight New Used For Drilling Left in Well OR SACKS (CU. FT) and to show the sheward of the control of the c) WELL TYP.	E:	Liquid	l Injection	X		Gas Inje	ection (not	storag	;e)	Waste	Disposa		
WELL OPERATOR: HG Energy, LLC 494497948 S) DESIGNATED AGENT: Mike Kirsch 5260 Dupont Road Parkersburg, WV 26101) LOCATION		Elevation	1362'				Watershe	ed	Branc	h of Lick Run			
		District		Tenmile	00	Cou	nty	Harrison	33		Quadrangle	Wo	If Summit 7.5'	692
Parkersburg, WV 26101) WELL OPE	RATOR:	HG Ener	gy, LLC		4944979	948	8) DESIGN	VATE	AGENT		A 2 C A 10 A 10 A 10 A		
OIL & GAS INSPECTOR TO BE NOTIFIED: 10) DRILLING CONTRACTOR: Name Sam Ward Address Pack Same Address Same Address Same Same Address Same Sam														
Name											-	ırkersbu	rg, WV 26101	
Address P. O. Box 2327 Buckhannon, WV 26201 PROPOSED WELL WORK: Drill X Drill Deeper Perforate New Formation Other Physical Change in Well (specify) Coolegical target formation Convert Co	OIL & GAS				D:			10) DRILL	ING C					
PROPOSED WELL WORK:														
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by Deed Lease X Other Contract Dated February 28, 1994 of record in the														1013
	4) APPLICAN	TS OPERA	TING RIC	HTS were	acqui	red from		Josephine	K. My	ers			JAN L	
Harrison County Clerk's Office in Book 1248 at Page 928	by Deed	1	Lease	X	O	ther Contr	act	Date	ed	Febru	ary 28, 1994		of record in t	he
	-		Harrison		Count	y Clerk's (Office in			Book	1248 at	Page	928	

WW-3A 10/07



1) Date:		May 15, 2	013	
2) Operator's We	ll No.	T. J. Chap	lain No	o. 138
3) API Well No.	47	033	-	
	State	County		Permit
4) UIC Permit N	0.	UIC2R033	301AP	

STATE OF WEST VIRGINIA

	(s) To Be Served	/	7 (a)	Coal Operator	
(a) Name	Orville Myers	V		Name	NA
Address	RR 4, Box 531			Address	
	Salem, WV 26426	/			
(b) Name	Brian V. Huffman	V	7 (b)	Coal Owner(s) With Declaration Of Record
Address	RR 4, Box 530			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		1(0)	Cour Lessee II	Wolf Run Mining Co.
Tiddi Coo	1100 2 110 2 60 3 1270 2			-	2708 Cranberry Square
	Buckhannon, WV 26201				2100 Clamberry Square
Telephone	Buckhannon, WV 26201 389-7583 ON(S) NAMED ABOVE:	You should have	rece	ived this fo	Morgantown, WV 26505
TO THE PERSO (1) The Applica sets out the (2) The plat (su (3) The Construwhich sets of	389-7583 ON(S) NAMED ABOVE: tion for a Liquid Injection or parties involved in the drilli rveyor's map) showing the wattion and Reclamation Plan	Waste Disposal Wing or other work; yell location on Form on Form WW-9 (unseldiment control an	Tell W m WV nless nd for	ork Permit over the W-6; and the well wor	Morgantown, WV 26505 orm and the following documents: on Form WW-3(B), which ek is only to plug a well), for the site and access road.

Application and accompanying documents for a Well Work Permit with the Chief of the Office of Oil and Gas, West Virginia Department of Environmental Protection, with respect to a well at the location described on the attached Application and depicted on the attached Form WW-6. Copies of this Notice, the Application, the plat, and the Construction and Reclamation Plan have been mailed by registered or certified mail or delivered by hand to the person(s) named above (or by publication in certain circumstances) on or before the day of the mailing or delivery to the Chief.

The person signing this document shall make the following certification:

"I 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." Received Its:

Well Operator HG Energy, LLC Address

5260 Dupont Road Parkersburg, WV 26101

Diane C. White

By: Accountant

Signature

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

Office of Oil & Gas

Well No. T. J. Chaplain No. 138

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	rivate laboratory
V	Vell Operator	HG Energy, LLC
	Address	5260 Dupont Road
	_	Parkersburg, WV 26101
	Telephone	304-420-1119

Brian Huffman

Earl & Belva Junkins

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:

Susan Junkins

RR 5, Box 1226 Salem, WV 26426		k 2, Box 119A ristol, WV 26426	Bristol, W		Bristol, WV 26426
John & Brenda Scotchie RR 2, Box 42 Salem, WV 26426	Linda Smith 9046 Westville Drive Camden Wyoming, D		71 31 3	Mazza Donna Devericks RR 2, Box 80 Bristol, WV 26332	Received Office of Oil & Gas
Additional testing autho	rized for the TJ Chaplain lease	s on 5/13/2013:			MAY 2 7 2013

Gary Winters & Ruth Kennedy

 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

Claude & Jean Tetrick

Form WW-9 Rev. 10/94

E 100	Page	3	of	3
API I	Number 47-	033		
Operator's Well No.	T. J. Ch	aplain i	No. 138	

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

Watershed		y, LLC			0	Code	494497948	
Watershed	Branch of	Lick Run		Qua	adrangle	Wolf Sum		
Elevation	1362'	County	Harrison		District	Tenm	nile	
Description of a	nticipated Pit Waste:	Fluids encou	ntered in drilling s	hallow well.				-
Will a synthetic Proposed Dispos Drilling medium If Additives to be u	Reuse (at Al Off Site Disp Other a anticipated for this wel foilbased, what type? S	Yes Pit Wastes: ation d Injection (UIC PI Number cosal (Supply Fo (Explain II? Air, fresh wa ynthetic, petrole ap, KCI	If so, what mil.? HAGE Pormit Number Orm WW-9 for disposater, oil based, etc. eum, etc.	al location) Air, Fresh W	<i>I</i> ater			5 D 5/22
			e terms and condition					
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OFFICIAL SEAL
NOTARY PUBLIC
STATE OF WEST VIRGINIA
TINA L. PETHTEL
HG Energy, LLC
5260 Dupont Road
Parkersburg, West Virginia 26101
My Commission Expires Nov. 12, 2018

07/19/2013

Property Boundary

Legend

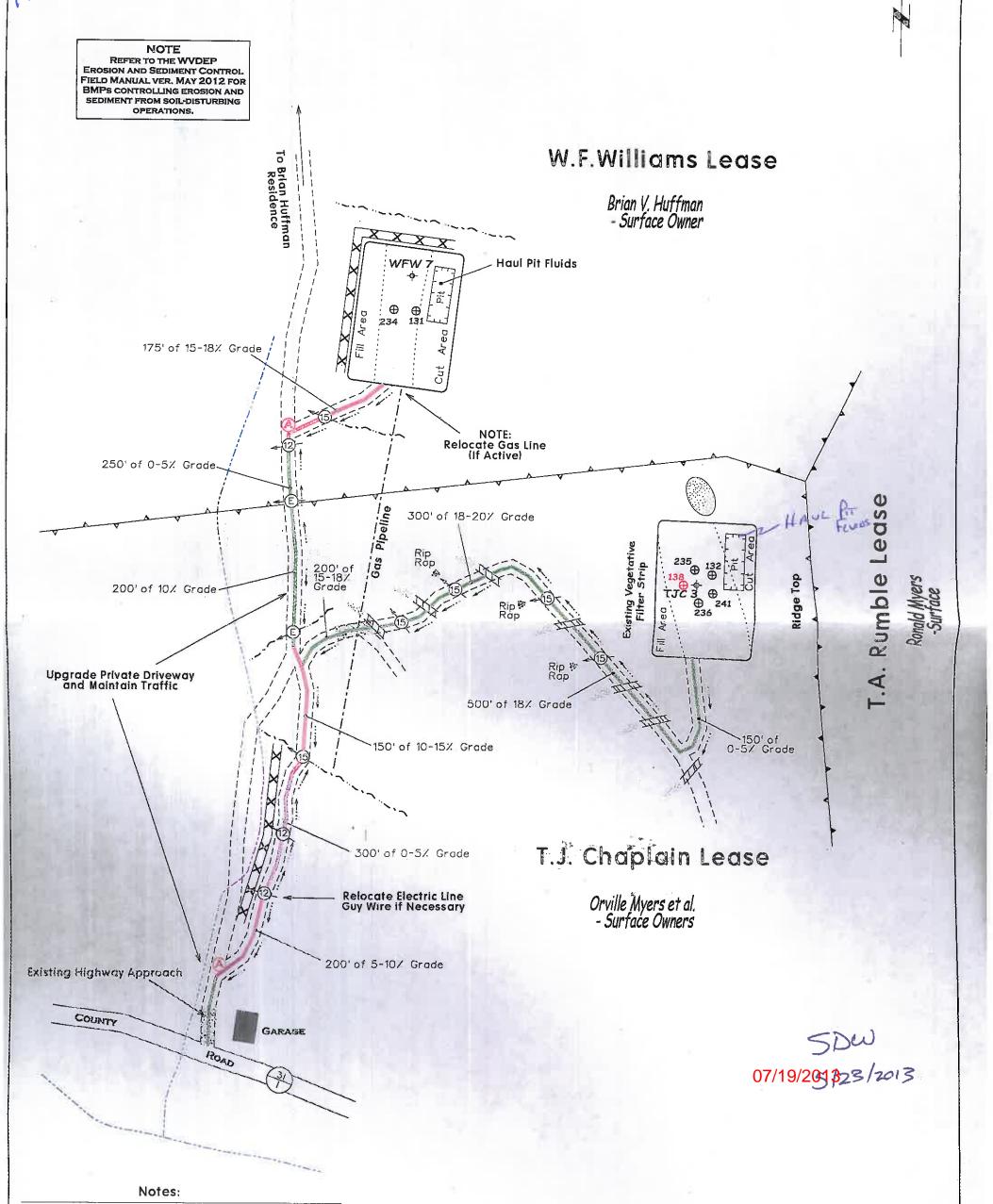
Diversion

Spring

Road		Spring		
Existing Fence	xx	Wet Spot	Ö	
Planned Fence	/ /	Drain Pipe		
Stream		Waterway	\longleftrightarrow	
Open Ditch	>	Cross Drain		
Rock	500000 5000000000000000000000000000000	Filter Strip	XXXXXXXXX	
	~	Pit: Cut Walls		
North	N			• .
Buildings	<u>az</u> y	Pit: Compacted Fill Walls		
Water Wells	w	Area of Land		
Drill Site	\bigoplus	Application of Pit Waste		
•		_		
	Area	I		
Proposed Revegetation Treatme	ent: Acres Disturbed Approx.	1.5 Ac. Pre	vegetation pH	
	Area			
	Арргох.	1.0 Ac.		
Lime	2 Tons/Acre or Cor	rect to pH 6.5		
-	r (10-20-20 or Equivalent) 500	• ———	bs. Minimum)	
	Straw 2 Tons/Acre			
	SEED MIX	TURES		
	And the state of t			
	(Location)		Area II (Road)	
Seed Type	Lbs/Ac.	Seed Type	Lbs/Ac. 40	•
Tall Fescue	<u>40</u> 5	Tall Fescue Ladino Clover	5	
Ladino Clover		Ladino Ciovei		
ever or				
Attack				
Attach: Drawing(s) of road, location, pi	t and proposed area for land application			
Photocopied section of involved	7.5' topographic sheet.		·	
Plan approved by:	- OWandII	-	•	
Comments: Pre -	Seed + multh. Upgrade 1	EdS as necess	on por WU DEP ETSMA	much
			21 12 1	
Title:	1. Gas Insportor		Date: 5/23/2013	
Field Reviewed?	(X) Yes	() 1	Vo	

Reclamation Plan For:

T.J. Chaplain No. 138



- REQUESTED PERMIT IS FOR DRILLING OF NEW WELLS.
- ACCESS ROAD FROM CO. Rd. 31/1 TO PT. AIS EXISTING.
 ROAD WILL BE UPGRADED TO WVDEP STANDARDS AND STRUCTURES INSTALLED AS SHOWN.
- ALL DISTURBED AREAS WILL BE RE-VEGETATED AS OUTLINED 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.
- O DRAWING NOT TO SCALE.





EXISTING WATERFLOOD ROADS

EXISTING LEASE OR FARM ROADS TO BE UPGRADED.
NEW ROADS TO BE CONSTRUCTED

