

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 27, 2015

WELL WORK PERMIT Secondary Recovery Well

This permit, API Well Number: 47-8704756, 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: P.A. BAYS 113

Farm Name: FISHER, FREDDIE, ET AL

API Well Number: 47-8704756

Permit Type: Secondary Recovery Well

Date Issued: 02/27/2015

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 permit conditions may result in enforcement action.</u>

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 with 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.
- 8. Operator shall provide the Office of Oil & Gas notification of the date that drilling commenced on this well. Such notice shall be provided by sending an email to DEPOOGNotify@wv.gov within 30 days of commencement of drilling.

FORM WW-3 (B) 1/12



1) Date: 0	1/12/201	15					
2) Operator's	Well	lo.	PA	Bays 113			-
3) API Well I		47	-	Roane	-	5	
2010-2010-2010		State		County			Permit
4) IIIC Permi	it No.	UIC	R087	704AP			

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

State and a	District:				Coun	ty Roane B) DESIGNATI	ED AGEN	Γ Diane Whit	Looneyville 7.5' 44'
WELL OPERA	TOR: HG	Dupont R	oad				Address	5260 Dupo	nt Road
Addı		ersburg, W							rg, WV 26101
OIL & GAS IN	PAIR	TO RE N	OTIFIE)		10) DRILLING	CONTRA	CTOR	
		TOBET	01111			Name To Be	Determined	Upon Approv	al of Permit
me Ed Gair dress P. O. B						Address			
urcoo	r, WV 25276	204	1359.7	552		4			
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		P	Other ph	veical cl	hange in W	ell (specify)			To a Chattan
GEOLOGIC T	ADCETE	ODICATI	ONT Dia	Injun		Depth	2115	Feet (top)	to 2135 Feet (bottom
GEOLOGIC	AKGEI I	pleted We	or ac	tual dep	th of existi	ng well): TVD 2	215, TMD 2725	Feet	
) Estimated Del) Approximate	om of Com	denths.	Fres	sh 380)	Feet	Salt _1	605	_ Feet
) Approximate	coal seam	depths:	NA	-					
) Is coal being i	nined in th	e area?	Yes		No	X	Common la V		
) Virgin reserve	ir pressure	in target	formatio	n 1250	psig	Source	Estimated	265	o psig (BHFP)
									ole pressure 2400 psi
MAXIMIM	PROPOSE	D INJEC	TION OF	ERATI	ONS: V	olume per hour	25 BBL	BOHOHING	
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FORM WW-3 (A) 1/12



1)	Date:	January 1	2, 2015				
2)	Operate	or's Well	No.	PA Ba	ys 113		
		ell No.:	47	-		-	
			State		County		Permit
4)	UIC Pe	rmit No.	UIC2	R08704	AP		

STATE OF WEST VIRGINIA NOTICE OF LIQUID INJECTION OF WASTE DISPOSAL WELL WORK PERMIT APPLICATION FOR THE DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS,

5) Surface Ou	mer(S) To Be Served 7)	(a) Coal	Operator		
(a) Name	Freddie Fisher et al.	Name	*******		
Address	4513 Clay Road	Address			
Addiess	Spencer, WV 25276		-		
(b) Name	James C. Shamblin 7	(b) Coal	Owner(S) With De	eclaration Of Reco	ord
Address	4292 Clay Road	Name			
Address	Spencer, WV 25276	Address			
(a) Nama		Name			
(c) Name Address		Address			
() In an autom	Ed Gainer 7	(c) Coal	Lessee with Decla	ration Of Record	
6) Inspector	P. O. Box 821	Name	Legger II III		
Address	5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	Address			
Telephone	Spencer, WV 25276 304-389-7582	Address	1		
APPLICATION THE APPLIC ACTION AT Take notice th Notice and A West Virginia	nat under Chapter 22-6 of the West Virginia Copplication and accompanying documents for a Department of Environmental Protection, value depicted on the attached Form WW-6. Co	ode, the use a Well We with respenses of this	ndersigned well op ork Permit with the ct to a well at the	DU ARE NOT RE perator proposes to be Chief of the Of the location descri-	eQUIRED TO TAKE of file or has filed this fice of Oil and Gas, bed on the attached and the Construction
and Reclamat	ion Plan have been mailed by registered or ce in certain circumstances) on or before the day	of the ma	iling or delivery to	the Chief.	ı(s) named above (or
	The person signing this documer	nt shall m			
"I certify und	er penalty of law that I have personally examin	ned and		HG Energy, LLC	
am familiar w	ith the information submitted in this document	t and all	Address	5260 Dupont Road	
attachments a	nd that, based on my inquiry of those individua	als	200	Parkersburg, WV 2	20101
immediately i	responsible for obtaining the information, I bell	ieve that	By:	Diane White	
the information	on is true, accurate and complete. I am aware t t penalties for submitting false information, inc	that there cluding	Its:	Agent	
the possibility	of fine and imprisonment.		Signature:	Diane L	ahite
	Descined				

Received Office of Oil & Gas JAN 2 2 2015

U.S. Postal Service CERTIFIED MAILT RECEIPT (Domestic Mail Only; No Insurance Coverage Provided) 9059 1.6 Postage Certified Fee 3.30 Postmark . Return Receipt Fee (Endorsement Required) 2.70 Here Restricted Delivery Fee (Endorsement Required) JAN 1 2 2015 2630 7.61 Total Postage & Fees \$ PAB 113 James C Shamblin SPS Street, Apt. No.; Clay Road or PO Box No. City, State, ZIP+4 Spencer WV 25276 PS Form 3800, August 2006 See Reverse for Instructions

9270	The second of the latest and the second of t	Service _{TM} O MAIL _{TM} REC	
2	For delivery informa	ation visit our website	at www.usps.coma
D	OFF	ICIAL	. USE
905	Postage	\$ 1.61	URG
Н	Certified Fee	3.30	a company
1000	Return Receipt Fee (Endorsement Required)	2.10	Postmark Here 2015
30	Restricted Delivery Fee (Endorsement Required)		Thu.
26.	Total Postage & Fees	\$ 7.61	PAB113
7013	Sent To Fredo	lie Fisher e	
70	Street, Apt. No.; or PO Box No. 45	13 Clay Roo	d
	City, State, ZIP+4 5F	pencer WV	25276
	PS Form 3800, August 2	2006	See Reverse for Instructions

Received Office of Oil & Gas

JAN 2 2 2015

WW-2B1 (5-12)

Well	No.	PA Bays 113

11 - 15

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 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.

Be advised, you have the right to sample and analyze any water supply at your own expense.

Listed below is the laboratory chosen by operator to perform analysis, and contactor chosen to collect sample.

Certified Laboratory Name Sturm Environmental

Sturm Environmental

Sampling Contractor

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 underling which one you have selected to sample and analyze. If there are no water wells or springs within 1000 feet of the proposed site, the Chief may require the operator to test wells up to 2000 feet from the proposed site.

Surface Owners Identified for Sampling/Analysis:

* . Freddie Fisher 4513 Clay Road Spencer WIV 25276

Received Office of Oil & Gas

JAN 2 2 2015

* · James Shamblin 4292 Clay Road Spencer WV 25276

* · caroline Miller

4326 Clay Road Spencer WW 25276 02/27/2015

WW-9 Rev. 5/10

	Page	542	_of	
API Number 47 -				
Operator's Well N	O. PAB	ays 113		

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

GE	NEKAL PERMIT FOR OIL F	AND GAS FIT WASTE DI	SCHAROL		
Operator Name HG Energy, LLC		OP Co	de 494497948		
Watershed Laurel Fork		Quadrangle _Looneyville	e 7.5'		
Elevation 1064	County Roane	Dist	rict Smithfield		
Description of anticipated Pit Was	tc: Fluids encountered in drill	ling shallow well			
Do you anticipate using more than	5,000 bbls of water to compl	ete the proposed well work		_ No _X	
Will a synthetic liner be used in th	e pit? Yes	f so, what mil.? 20 Mil.			
Reuse Off Site	pplication ground Injection (UIC Permit (at API Number e Disposal (Supply form WW	7-9 for disposal location))	
Other	(Explain				
Drilling medium anticipated for the	nis well? Air, freshwater, oil b	based, etc. Air, Fresh Wate	er		,
-If oil based, what type?	Synthetic, petroleum, etcN	<u> </u>			-
Additives to be used? Water, soa Will closed loop system be used?	No				
D-11 austings disposal mathod? I	eave in nit landfill removed	offsite, etc. Leave in pit			•
-If left in pit and plan to	solidify what medium will be /permit number?	used? Cement, lime, sawd	ust Native soil,	Cement, iine	,
on August 1, 2005, by the Office provisions of the permit are enfo	rceable by law. Violations o rcement action. of law that I have personally ments thereto and that, base leve that the information is to the contraction is to the contraction in the contraction in the contraction is to the contraction in the contraction in the contraction in the contraction in the contraction is the contraction in t	irginia Department of Envir f any term or condition of y examined and am famili d on my inquiry of those true, accurate, and comple	the general per ar with the infe individuals in the I am awar	mit and/or other appl ormation submitted on nmediately responsib	licable on this
Company Official Signature	Diane White		eceived		
Company Official (Typed Name		Office		as	
Company Official Title Agent		JAN	2 2 2015		
Subscribed and sworn before me	this 12th day of	January	, 20_15	-	
My commission expires	til Julou H.y, 3016	J	Note Nic	OFFICIAL SEA NOTARY PUBL STATE OF WEST VI S. DIANNE DULAI P O Box 5519 Vienna, West Virginia by Commission Expires	LIC RGINIA NEY

Beviocof Color

1.28 8 3 7 22

OFFICIAL SEAL
NOTARY PUBLIC
STATE OF WEST VIRGINIA
S. DIARNIE DULANEY
P. O. Box 5519
Vienca, West Virginia 26105
W. Commission Equies Oct 4, 2016



Operator's Well No. PA Bays 113

	LEGER					
Property Boundary	Dive	ersion Committee 1911	THE THE PARTY OF T			
The confidence of the control of the	Spri	Spring Wet Spot				
Road = = = = = = = = = = = = = = = = = = =	Wel					
	Dea	in Pipe with size in inches	◎			
Planned Fence/_/_/	Wa	terway \longleftrightarrow	$\Rightarrow \Leftrightarrow \Leftrightarrow$			
Stream		oss Drain 77777	CITITITE			
Open Ditch		ificial Filter Strip XXXXX	XXXXXXXXXXXX			
Rock 888888		cut walls				
North N	1.8101	compacted fill walls	WILL CO			
Buildings		ea for Land Application of Pit	Waste			
Water wells (W)	***	(===				
Drill site		G	To Provide the			
	1.8 acre	S Prevegetation pH				
Proposed Revegetation Treatment: Acres Disturbed						
Lime3Tons/acre or to co	orrect to pHO.	5				
		(500 lbs minimum)				
Fertilizer (10-20-20 or equivalent)	- IOS/ACIO	300 103 1111111111111				
Mulch_Straw 2	Tons/acre					
Withon_	Seed Mix	tures				
	Beed Mix		**			
Area I		Are Seed Type	a II lbs/acre			
Seed Type lbs/acre			40			
Tall Fescue 40		Tall Fescue	1000			
Ladino Clover 5		Ladino Clover	5			
Ladino Clovei						
Sediment Control to be in place	at all times	3.				
Sediment control to a						
Attach:		don				
Attach: Drawing(s) of road, location,pit and proposed are	a for land applica	non.				
Photocopied section of involved 7.5' topographic	sheet.					
Photocopica section of any						
	7	5				
Plan Approved by:						
Than rappers						
Comments:						
		1 0				
		1/20/				
Title: Inspector		Date:				
V Scient	() No				
Field Reviewed? Yes	Received	₹ 30 mm				
Offic	e of Oil o	3				





