

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 11, 2014

WELL WORK PERMIT

Rework-Secondary Recovery

This permit, API Well Number: 47-3304422, 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: NATHAN GOFF NO. 65 Farm Name; JOHNSON, CHAD W.

API Well Number: 47-3304422

Permit Type: Rework-Secondary Recovery

Date Issued: 02/11/2014

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	1 1 1	Ι	ecember 1	0, 20)13
2) Operator's Well	No.	N	Vathan Go	ff No	. 65
3) API Well No.	47	-	033		4422
-	State		County		Permit
4) UIC Permit No.		I	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

	Ξ:	Liqui	d Injection	n X	2.	Gas Injec	tion (not	storage	e)	Waste	Disposa		4	
6) LOCATION:		Elevation	1246	3'		,	Watershe	ed	Wizar	dism Run				
	Distric	t	Tenmile	00	Q Co	unty H	arrison	33	,	Quadrangle	Wo	lf Summi	it 7.5'	692
7) WELL OPER	RATOR:	HG Ener	rgy, LLC		494497	7948 8)	DESIGN	JATED	AGENT	: M	ike Kirs	ch		
, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			pont Road	1							mark of the color	nt Road		
		Parkersl	burg, WV	26101.			1. 1			Pa	rkersbu	rg, WV 2	6101	
9) OIL & GAS I	INSPECT	OR TO BE	E NOTIFII	ED:		10) DRILL	ING C	ONTRAC	CTOR:				
	Name	e Sam Wa	rd						Name	e To Be Determin	ed Upon	Permit Ap	proval	
	Address	s PO Box 2							Address	3				
		Buckhar	nnon, WV	26201						-				
11) PROPOSED	WELL W	ORK:	Dril			Drill Dee	-		Redril		timulate	X		
					Old Forma			orate N	lew Forn	nation		Convert		
			Other	Physic	al Chang	e in Well (spec	ify)							
12) Geological ta	rget form	ation		Fifth	Sand	D	epth		2,898	Ft. (Top) to		2,910	Ft. (B	ottom)
3) Estimated de	epth of cor	mpleted we	ell (or acti	ual dep	th of exis	ting well)	_		3050'	Ft				
4) Approximate	water str	rata depth	s:	Fresh	1	225	Ft.			Salt	1,3	25	Ft.	
5) Approximate	coal sean	n depths:				580	Ft.							_
6) Is coal being	mined in	the area?		7	j	l'es		X	No					DDO
7) Virgin reserv			et format	ion:		60	-		psig.	Source		Estimat	ed	5D0
8) Estimated re				38,791	-								-	M
						1200			more					
						1200			_psig.					
9) MAXIMUM I	PROPOSE	ED INJEC	TION OP			Volume per h	-		_	Bottom Hole I	Pressure	2	400 ps	
9) MAXIMUM 1	PROPOSE IDENTIFI	ED INJECTION	TION OP	RIALS	TO BE I		CLUDIN	G ADI	_	Bottom Hole I			-	<u>i</u>
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330044775R

API#

State of West Virginia Division of Environmental Protection Section of Oil and Gas

Well Operatoria Deport of Well Work

		Well Operator's	Kepor	tot wen	WOLK		\mathcal{S}_{i}	$\mathfrak{S}^{D_{A}}$
Farm name:	MYERS, RO	XANA	Oper	ator Well	No.: NATI	IAN GOFF 65	V	9/
LOCATION:	Elevation:	1,246.00	Quad	lrangle:	WOLF SUI	MMIT 7.5'		
	District: Latitude: Longitude:	TEN MILE 2,175 Feet south of 10,850 Feet west of		nty: HAI Deg 17 Deg 27	Min 30	Sec.	<u>.</u>	
Company:	EAST RESOVENNA, W			Casing/ tubing Size	Used in Drilling	Left in Well	Fil	ment l Up ı. Ft.
Agent:	PHILIP S. ON	NDRUSEK						
Inspector: Permit Issued:	TIM BENNE	01/25/08		9 5/8"	646.00'	646.00'	340	sks
Well work Com Well work Com Verbal plugging	npleted:	01/31/08 04/09/08		7"	1746.00'	1746.00'	100	sks
permission gran Rotary X Total Depth (fee Fresh water dep	nted on: _Cableet)	Rig 3,050 NA		4 1/2"	2990.3'	2990.3'	150	sks
· -								
Salt water depth	ns (ft)	<u>NA</u>						
Is coal being mon Coal Depths (ft		N) NA N						
OPEN FLOW	DATA	* WATERFLOOD INJE	ECTOR	L.				•
Produc	ing formation	Fifth San			Pay zone d		2898-2	
Gas:	Initial open f		MCF/d MCF/d		al open flov al open flow		*	_Bbl/d Bbl/d
	Final open flo	n flow between initial a			ar open now	Hours		
Static	rock pressure	p	osig (s	urface pre	ssure)	after		_Hours
Second	d producing for	mation			Pay zone d	epth (ft)		
Gas:	Initial open f	lowN	MCF/d		al open flow			Bbl/d
	Final open flo		MCF/d		al open flow	Hours	_	_Bbl/d
Static	rock pressure	n flow between initial a	osig (s	urface pre	ssure)	after	180	Hours
OP STIMITE ATT	NG PHYSICAL (I, PUT THE FOLLOWING: 1) CHANGE, ETC. 2) THE WELI FORMATIONS, INCLUDING	L LOG V	WHICH IS A	L SYSTEMAT	TERVALS, ECOC IC DETABLED E WILLEORE.	TURING	end Case Producted
		For: EAST F	RESOU	JRCES, IN	The box	2011 -	Alice Chris	OUI.
		By: Date:			12.11	16/08	Oeb.	
		••				46	2/14/2	2014

Treatment:

Treated perforations 2898'-2900' and 2904'-2907' w/ 500 gals. 15% HCl

Well Log:		2221	Original TD
	2221	2476	Shale
	2476	2506	Sand
	2506	2582	Shale
	2582	2606	Sand
	2606	2698	Shale
	2698	2732	Sand
	2732	2898	Shale
	2898	2910	Fifth Sand
	2910	3050	Shale
•	3050		TD.

Received

Office of Oil and Gas
Office of Oil and Gas
WV Dept. of Environmental Protection

WW-3A 10/07



Date: Operator's Well No.		December	6	0	
		Nathan G			
3) API Well No. 47		033		4422	
	State	County		Permit	
4) UIC Permit No.		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

5) Surface Owner(s) To B	le Served	7 (a) Coal Operator	
(a) Name Cha	ad W. Johnson	Name	NA
	East Main Street	Address	
Brio	dgeport, WV 26330		
(b) Name		7 (b) Coal Owner(s)	With Declaration Of Record
Address		Name	NA
		Address	
(c) Name			
Address		Name	NA
		Address	
6) Inspector San	n Ward	7(c) Coal Lessee Wi	ith Declaration Of Record
	Box 2327	(c) Coar Lessee w.	Wolf Run Mining
the second secon	Ekhannon, WV 26201		2708 Cranberry Square
	-7583	_	Morgantown, WV 26505
O THE PERSON(S)) NAMED ABOVE: You should have	e received this fo	rm and the following documents:
	the first injection or waste disposal is CEIVED THESE DOCUMENTS IS THAT YO	NA U HAVE RIGHTS R	EGARDING THE APPLICATION
HICH ARE SUMMARI	IZED IN THE "INSTRUCTIONS" ON FORM TO TAKE ANY ACTION AT ALL.		
pplication and accompanyi	oter 22-6 of the <u>West Virginia Code</u> , the undersigned ing documents for a Well Work Permit with the Chie	ef of the Office of Oil an	nd Gas, West Virginia Department of
	with respect to a well at the location described on the		
	, the Application, the plat, and the Construction and y hand to the person(s) named above (or by publicat		
ailing or delivery to the Cl		ion in certain circumsta	ances) on or before the day of the
			140 575
The	person signing this document shall make the	following certification	
cortify under penalty of la	w that I have personally examined and am	Well Operator	HG Energy, LLC
아일() [10] 이 [10] [2] [2] [2] [2] [2] [2] [2] [2] [2] [2	on submitted in this document and all attachments	Address	5260 Dupont Road
	ry of those individuals immediately responsible		Parkersburg, WV 26101
	n, I believe that the information is true, accurate		, ————————————————————————————————————
	at there are significant penalties for submitting	By:	Diane C. White
se information, including	the possibility of fine and imprisonment."	Its:	Accountant
		Signature	Diane C White
l and Gas Privacy Notice		THE PROPERTY OF THE PARTY OF TH	and the same of th

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

.Form.WW-9	· · ·	 	٠	Page	· · · · 3 · · · · -	of	
Rev. 10/94				API Number 47-			4422
		Operator's '	Well N	lo. <u>Natha</u>	n Goff N	o. 65	

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

Subscribed and sworn before me this Oday of Dae who Wept. of English Williams Office of Oil and Office of Oil and Office of Oil and Oi	,		, 410 111 11101,	o Disonincis		
Elevation 1246' County Harrison District Tenmile Description of anticipated Pit Waste: Fluids encountered in stimulating existing well. Do you anticipate more than 6,000 bblo of water to complete the proposed well work				0	P Code 4944979	48
Description of anticipated Pit Waste: Fluids encountered in stimulating existing well. Do you anticipate more than 5,000 bbls of water to complete the proposed well work and the proposed well work and the proposed proposed proposed Disposal Method For Treated Pit Wastes: X Land Application Underground Injection (UIC Permit Number Reuse (at Arl Number Off Site Disposal (Supply Form WW-9 for disposal location) Other (Explain Drilling medium anticipated for this yee? Synthetic, petroleum, etc. Additives to be used? Water, soap, ECCI Drill cuttings disposal method? Leave in pit, landful, removed offsite, etc. I leaft in pit and plan to colidify, what medium will be used? Coment, lime, sawdust Landful or offsite name/permit number? I certify that I understand and agree to the terms and conditions of the GENERAL WATER POLLUTION PERMIT issued on August 1, 2005, by the Office of Oil and Gas of the West Virginia Department of Environmental Protection. I understand that the provisions of the permit are enforcessible by law. Violations of any term or condition of the general permit and/or other applicable law or regulation can lead to enforcement action. I cortify under penalty of law that I have personally examined and am familiar with the information submitted on this application form and all attachments therete and that, based on my inquiry of those individuals immediately responsible of columnary official (Typed Name) Diano C. White Company Official Title Accountant Notary Public Accountant OFFICIAL SEAL NOTARY Public Subscribed and sworn before me this OFFICIAL SEAL NOTARY Public State of Seal Public Response Nove in Agreement and All Partersburg, West Virginia Religious, West		rdism Run		Quadrangle_	Wolf Summit 7.5'	
Do you anticipate more than 5,000 bbls of water to complete the proposed well work Yes No X Will a synthetic liner be used in pit? Yes If so, what mil? 20 Mil. 12 Proposed Disposal Method For Treated Pit Wastes: X Land Application	•			•	Tenmile	
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My commission expires OFFICIAL SEAL NOTARY PUBLIC STATE OF WEST VIRGINIA TINA L. PETHTEL HG Energy, LLC 5260 Dupont Road Parkersburg, West Virguna 20-117 My Commission Expires Noy 1:	Subscribed and sworn before me	this O day of	Daenl	un 2013	MA Debr of E	of Oil and I
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Legend

Property Boundary		Diversion	
Road		Spring	○ →
Existing Fence	xx	Wet Spot	25
Planned Fence	//_	Drain Pipe	(12)>
Stream		Waterway	\Leftrightarrow \Leftrightarrow \Leftrightarrow
Open Ditch	-7 -7	Cross Drain	
	50000000000000000000000000000000000000	Filter Strip	×××××××××××××××××××××××××××××××××××××××
Rock	0000000	Pit: Cut Walls	Marin
	3.	Pit: Cut waiis	William !
North	N	Pit: Compacted	7
Buildings		Fill Walls	Tritte
Water Wells	W	Area of Land	
Drill Site	\oplus	Application of Pit Waste	(27.79-1-2)
Lime Fertilizer (Mulch	(10-20-20 or Equivalent) Straw 2 Tons	ox. 0.3 Ac. r Correct to pH 6.5 500 Lbs./Acre (500 lbs/Acre	os. Minimum)
Area I (Location)		Area II (Road)
Seed Type	Lbs/Ac.	Seed Type	Lbs/Ac.
Tall Fescue	40	Tall Fescue	40
Ladino Clover	5	Ladino Clover	- iligo
= 1		-	2000
			ALC:
Attach: Drawing(s) of road, location, pit a Photocopied section of involved 7	nd proposed area for land applicat .5' topographic sheet.	tion	Making Sept of Superior States of Oil and Gas Protection Office of Oil and Gas Protection Office of Oil and Gas Protection Office of Oil and Gas Protection
Plan approved by:	o DWar	III	Mary Sept 9 all
Comments: Upg	made Eds as n	ecessary por	WUDEP EXS. Manual.
Title:	Gas Inspector		Date: 12/23/2013
Field Reviewed?	() Yes	(X) N	
*	P - 2 - 2000		



