

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

August 29, 2013

WELL WORK PERMIT

Secondary Recovery Well

This permit, API Well Number: 47-3305778, 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: A. STONESTREET 124

Farm Name: CURRY, KEITH A. & BRENDA S.

API Well Number: 47-3305778

Permit Type: Secondary Recovery Well

Date Issued: 08/29/2013

Promoting a healthy environment.

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					
2) Operator's Well	No.	A	Stonestre	eet No.	124
3) API Well No.	47		033	M.	
	State		County		Permit
4) UIC Permit No.		Ţ	JIC2R0330	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

) WELL TYPE	:	Liquid	injection	Λ		Gas Injection	(HOL PLOTS	ige)	Waste	Disposal		
) LOCATION:	i da	Elevation	1228'			Wat	ershed	Ten M	ile Creek			
	District		Tenmile		Cour				Quadrangle	Wolf	Summit 7.5'	
) WELL OPER	RATOR:	HG Ener	gy, LLC		49449794	8 8) DE	SIGNATE	D AGENT	7	Iike Kirsc	h	
		5260 Dup	-			_			Control of the contro	260 Dupor		
		Parkersb	urg, WV 2	26101			*				g, WV 26101	
OIL & GAS I	NSPECTO	OR TO BE	NOTIFIE	D:		10) D	RILLING	CONTRAC	TOR:			
	Name	Sam War	d			2		Name				
	Address	P. O. Box				3		Address				
		Buckhan	non, WV 2	26101					عسان			
1) PROPOSED	WELL WO	ORK:	Drill			Drill Deeper		Redril		Stimulate	X	
				-	ld Formati			New Form	ation		Convert	
			Other	Physic	al Change	n Well (specify)						
2) Geological ta	rget forma	ition		Fifth S	Sand	Deptl	h	3,024 MD	Ft. (Top) to		3,040 Ft. (B	ottom)
3) Estimated de	epth of con	apleted we	ll (or actu	al dept	th of existin	g well)	3200' TM	D	F	t.		
4) Approximate	water str	ata depths	:	Fresh		280	Ft.		Salt	1,34	0 Ft.	
5) Approximate	coal seam	depths:			465		Ft.		- T			
6) Is coal being	mined in t	he area?			Yes		X	No				
77 17:	**************************************	un in tour	at formation	on:		1	250	psig.	Source		Estimated	
Virgin reserv	oir pressu	re in targe	or Iormati	O		.,						
					-		650		-			
8) Estimated re-	servoir fra	cture pres	ssure:		ONS: V	2,	650	psig.	Bottom Hole	Proceuro	2 400 ns	4
8) Estimated res 9) MAXIMUM I	servoir fra PROPOSE	cture pres	ssure: FION OPE	ERATIO		2, olume per hour	650 25 BB	psig.	Bottom Hole		2,400 ps	-
8) Estimated res 9) MAXIMUM I 0) DETAILED I	servoir fra PROPOSE DENTIFI	cture pres	ssure: FION OPE OF MATE	ERATIO	TO BE IN	2, olume per hour JECTED, INCL	650 25 BB UDING A	psig.			2,400 ps eed water, bact	-
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8) Estimated res 9) MAXIMUM I 0) DETAILED I and other che 1) FILTERS (IF	servoir fra PROPOSE DENTIFI emicals as	acture pres D INJECT CATION (needed to	ssure: FION OPE DF MATE maintain Cartridge	ERATION RIALS water stilters	TO BE IN- quality and and/or coa	2, folume per hour JECTED, INCL I improve oil rec I bed filters	650 25 BB UDING Alcovery.	psig. L DDITIVES			-	-
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8) Estimated res 9) MAXIMUM I 0) DETAILED I and other che 21) FILTERS (IF 22) SPECIFICAT 33) CASING ANI CASING OR CUBING TYPE Conductor Cresh Water Coal Intermediate Croduction Cubing	PROPOSE DENTIFI emicals as ANY) FION FOR D TUBING Size	CATION C needed to CATHOD SPECIA Grade L.S.	SSUTE: FION OPE MATE: maintain Cartridge FICATION Weight 17#	ERATIO RIALS water filters ECTIO	TO BE IN- quality and and/or coa	2, folume per hour JECTED, INCL' I improve oil red I bed filters HER CORROSI FOOTAGE IN For Drilling	25 BBI UDING AI covery. ION CONT NTERVAL Left i 54	psig. L DDITIVES TROL S in Well	CEMENT I OR SACKS Cement to S	FILLUP (CU. FT.) urface	PACKEI Kinds Tension Sizes 2.375" x 4.5" Depths Set 2800'	ericides
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WW-3A 10/07



1) Date:		June 19, 2		
2) Operator's We	ll No.	A Stonest	reet N	No. 124
3) API Well No.	47	033	- 8	05778
	State	County		Permit
4) UIC Permit N	0.	UIC2R033	301AI	

STATE OF WEST VIRGINIA

	The Market Colored			11	
	STATE OF WEST	VIRGINIA		C	
NOTICE	OF LIQUID INJECTION OR WASTE DISP		ORK PERMIT APPLICATION		
FOR T	THE DEPARTMENT OF ENVIRONMENTAL	PROTECTION.	OFFICE OF OIL AND GAS	1	
5) Surface Owner		7 (a) Coal Operator	NIA		
(a) Name_	Keith & Brenda Curry	Name	NA	_	
Address	RR 4, Box 480	Address		_	
-	Salem, WV 26426	5.00 C 10 - ()	With D. L. Will Of D	-	
(b) Name_	NA		With Declaration Of Record		
Address		Name Address	NA	_	
(a) Name	NA	Address		_	
(c) Name_	IVA	Name		_	
Address_		Address		-	
-		Address		_	
6) Inspector	Sam Ward	7(c) Coal Lassac W	ith Declaration Of Record	_	
6) Inspector Address	P. O. Box 2327	(c) Cour Dessee II	Wolf Run Mining Co.	/	
Address	Buckhannon, WV 26101	2708 Cranberry Square Morgantown, WV 26505			
Telephone	389-7583				
- Telephone	300 1300		-1846 8 1131 1131 - 1 1131 1131 1131	=	
THE REASON YOUNG THE REASON YOUNG THE SUM ARE NOT REQUITED TO THE REASON TO THE REASON YOUNG THE REASON YOUN	ed for the first injection or waste disposal is DU RECEIVED THESE DOCUMENTS IS THAT YOU MMARIZED IN THE "INSTRUCTIONS" ON FORM V IRED TO TAKE ANY ACTION AT ALL. Her Chapter 22-6 of the West Virginia Code, the undersigned companying documents for a Well Work Permit with the Chie ection, with respect to a well at the location described on the s Notice, the Application, the plat, and the Construction and	WW-3(A) DESIGNA d well operator propose of of the Office of Oil ar e attached Application d Reclamation Plan hav	EGARDING THE APPLICATION TED TO YOU, HOWEVER YOU s to file or has filed this Notice and ad Gas, West Virginia Department of and depicted on the attached Form we been mailed by registered or		
ertified mail or deli nailing or delivery t	vered by hand to the person(s) named above (or by publicati to the Chief.	on in certain circumst	ances) on or before the day of the		
9 2 27 113				=	
	The person signing this document shall make the	following certification	on:		
It:6 day	It of law that I have personally avanized and an	Well Operator	HC From IIC		
	alty of law that I have personally examined and am formation submitted in this document and all attachments	Address	HG Energy, LLC 5260 Dupont Road	_	
	ny inquiry of those individuals immediately responsible		Parkersburg, WV 26101	_	
	ormation, I believe that the information is true, accurate				
and complete. I am a	aware that there are significant penalties for submitting	By:	Diane C. White		
alse information, in	cluding the possibility of fine and imprisonment."	Its:	Accountant		
	Office VIII3				
	4	Signature	Diane CWhite		

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 Rev. 10/94

	Page	3	of	3
API	Number 47-	033		
Operator's Well No.	A Stone	street 1	No. 124	

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	y, LLC	OP Code 494497948					
Watershed -	Ten Mile (Creek	Quadrangle	Wolf Summit	1 4			
Elevation -	1228'	County	Harrison	3	District Tenmil		09	
Description of	anticipated Pit Waste:	Fluids encoun	tered in drilling sh	-				
Do you anticipa	ate more than 5,000 bbls				Yes	No X		
Will a syntheti	ic liner be used in pit?	Yes	If so, what mil.?	20) Mil.		_	N
Proposed Dispo	osal Method For Treated	Pit Wastes:	and the market is a				>1	271
	X Land Applie	cation					61	271.
_		nd Injection (UIC I	Permit Number)	
_	Reuse (at A)	
-		프리크의 하시 경기를 하는다.	m WW-9 for disposa	l location	n)			
<u> </u>	Other	(Explain)	
	m anticipated for this we				resh Water			
Additives to be	If oilbased, what type? S		ım, etc. 1	IA				
	e used? Water, So disposal method? Leave:		noved offsite etc			·		
	If left in pit and plan to		Charles and the Charles of the Charl	ement.	lime, sawdust	Native soil ceme	nt lime	
	Landfill or offsite name/			omono, .	inio, barrador	Traditio Boll, collic.	iri, imic	
	certify that I understand ast 1, 2005, by the Office							
I this application for obtaining the penalties for su	or regulation can lead to certify under penalty of n form and all attachmen he information, I believe ubmitting false informati icial Signature	law that I have pe ats thereto and tha that the informati	rsonally examined a at, based on my inqu on is true, accurate	iry of th and com imprison	ose individuals uplete. I am awa nment.	immediately respon	nsible	
	icial (Typed Name)	•	Diane C. White		-			
Company Off		-	Accountant				_	
company on	iolai iiolo	-	riccountant				-	
Subscribed ar	nd sworn before me thi	is <u>20</u>	day of Ju		2013	Notary Public	Rec Office C	eived f Oil &
My commission	on expires		VOV. 12.	201	8		707	
		404			FICIAL SEAL	-		
Form WW-9		700	-	OF	TARY PUBLIC	3		

MMM9-Back

Property Boundary

Road

Legend

Diversion

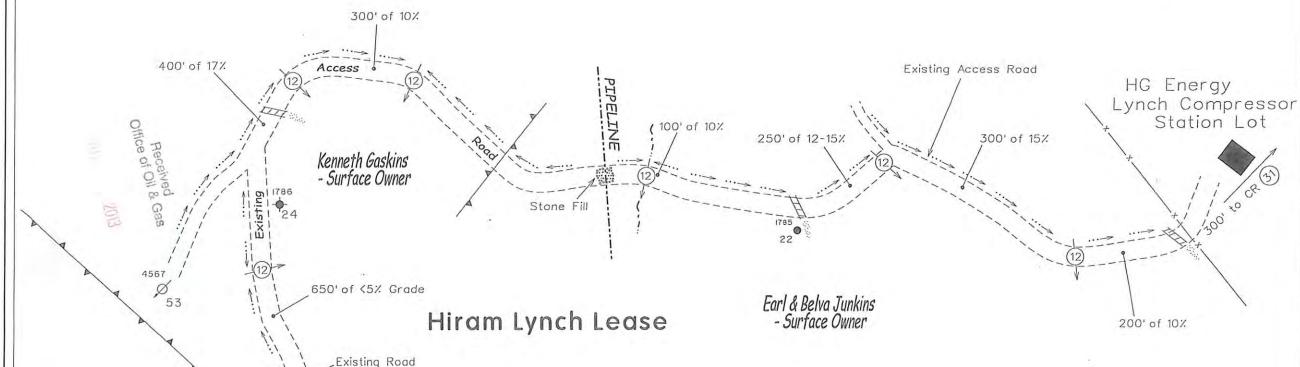
Spring

Existing 1 ono	A A A	Wet Spot	\cup_{-}
Planned Fence	// /	Drain Pipe	——————————————————————————————————————
Stream		Waterway	\leftarrow
Open Ditch	>	Cross Drain	2//////////
Rock	50000000000000000000000000000000000000	Filter Strip	XXXXXXXXX
	0-00 H	Pit: Cut Walls	Current
. North	. N		
.l		Pit: Compacted Fill Walls	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
Buildings	•		Triffic Control
Water Wells	®	Area of Land Application	
Drill Site	\oplus	of Pit Waste	(, , , , , , , , , , , , , , , , , , ,
1			
	Are	a I	
Proposed Revegetation Treatme			evegetation pH
•	Area		
	Арргох.	1.0 Ac.	
* *	2 Tons/Acre or Co	orrect to pH 6.5	
Lime		•	the Minimum)
Fertilize Mulch			
Mulcii	Straw Z Tonsyric	<i></i>	
	SEED MI	XTURES	
A	Y (Y a sation)		Area II (Road)
Seed Type	I (Location) Lbs/Ac.	Seed Type	Lbs/Ac.
Tall Fescue	40	Tall Fescue	40
Ladino Clover	5	Ladino Clover	5
•		•	
Attach: Drawing(s) of road, location, p Photocopied section of involve	it and proposed area for land application		
•			
Plan approved by:	1D Warratt		
Comments:			
	Mark to the same of		
Title: O,	+ Gas Inspector	**************************************	Date: 6/27/2013
Field Reviewed?	(V) Yes	()	No
•			

Detail of: Main Waterflood Access Road

To Serve Alexander Stonestreet No. 124





Alexander Stonestreet Lease

Keith Curry

- Surface Owner

To: A. Stonestreet No.214 To:
A. Stonestreet
No. 124
(See Attached
Location Detail)

Notes:

- Road shown is a main access road for the Wolf Summit Waterflood Project. Road is existing and has been upgraded as shown.
- Drainage structures and water control will be maintained.
- Any disturbed areas will be re-vegetated as outlined on Form WW-9.
- All road grades <5% except as noted.

Note: Drawing not to Scale

