

#### 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

May 05, 2015

#### WELL WORK PERMIT

#### Rework-Secondary Recovery

This permit, API Well Number: 47-3304905, 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.

Chief

Operator's Well No: HIRAM LYNCH NO. 108

Farm Name: GASKINS, KENNETH & DEBORA

API Well Number: 47-3304905

Permit Type: Rework-Secondary Recovery

Date Issued: 05/05/2015

### **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. 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 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.

## CK# 2960 \$65000

Waste Disposal

FORM WW-3 (B) 1/12

5) WELL TYPE:



Liquid Injection /

1)	Date:	03/02/20	15					
2)	Operato	r's Well N	No.	Hir	am Lynch 108	3		
3)	API We	11 No.:	47	-	033	-	4905	
			State		County		Permit	
4)	UIC Per	mit No.	HICZ	R03	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

Gas Injection (not storage)

	TION: Ele	vation: 1188'			Wat	tershed: Wiz	ardism Run		
7.00		trict: Ten Mi	e		Cou	inty Harrison		Quadrang	le Wolf Summit 7.5'
7) WELL	OPERATOR					8) DESIGNAT	TED AGEN	T Diane Wi	nite
1	Address	5260 Dupon				7 - 2 - 2 - 1 - 1	Address		oont Road
		Parkersburg	WV 2610	1					urg, WV 26101
9) OIL &	GAS INSPEC					10) DRILLING	G CONTRA	CTOR	
Name	Sam Ward						Be Determine	d Upon Appro	oval of Permit
Address	P. O. Box 23	27				Address			
	Buckhannon,	WV 26201				_			
	POSED WELL			hysical o		eeper/ Perfor vell (specify) Depth			/ Stimulate Convert to 2805 Feet (bottom)
12) GEOL	LOGIC TARC	Completed V	Vall (or o	otual de	nth of evict	ing well): 296		Feet	
	ated Depth of eximate water			esh NA	ptii oi exist	Feet	Salt N.		Feet
	oximate water oximate coal s		. NA	311 1475					
	I being mined				No	X			
17) Virgin	n reservoir pro	ecure in targe	et formation	on 60	psig		Estimated		
10) Viigii	ated reservoir	fracture nres	sure 12	00					psig (BHFP)
10) MAY	IMI IM PROI	OSED INIE	CTIONO	PERAT	IONS: V	olume per hou	25 bbl/hr	Bottom h	ole pressure 2400 psi
191 IVIAA	INION I ROI	OBLD INT		FEDTAT	are pri	THE OTER DIE	TIDDIC	DDITIME	S Fresh water, produced
20) DETA	III ED IDEN	TIFICATION	OF MA	ERIAL	STOBEL	NJECTED, INC	LUDING A	ADDITIVE	Troom manary products
20) DETA	AILED IDEN	TIFICATION	OF MA	LERIAL ed to mai	S TO BE II	NJECTED, INC	e oil recovery	,	Received
20) DETA water, b	pactericides and	other chemica	ls as need	ed to mai	ntain water q	NJECTED, INC	e oil recovery	ADDITIVE	Received
20) DETA water, b	eactericides and	other chemica Cartridge fi	ils as need iters and/or	ed to mai	ntain water q filters	uality and improv	e oil recovery		Received
20) DETA water, b	eactericides and	other chemica Cartridge fi	ils as need iters and/or	ed to mai	ntain water q filters	OTHER CORE	e oil recovery		Received
20) DETA water, b 21) FILTI 22) SPEC	eactericides and ERS (IF ANY CIFICATIONS	other chemical Cartridge fire FOR CATH	ils as need Iters and/or IODIC PR	ed to mai	ntain water q filters	uality and improv	e oil recovery		MAR 1 8 2015
20) DETA water, b 21) FILTI 22) SPEC 23) CASIN	pactericides and ERS (IF ANY EFFICATIONS	other chemica () Cartridge fi S FOR CATH	als as need lters and/or IODIC PR	ed to mai r coal bed ROTECT	ntain water q filters	uality and improv	ROSION CO		Received
20) DETA water, b 21) FILTI 22) SPEC	Dactericides and ERS (IF ANY CIFICATIONS OF AND TUBING OR	other chemica () Cartridge fi S FOR CATH	ils as need Iters and/or IODIC PR	ed to mai r coal bed ROTECT	ntain water q filters	OTHER CORE	ROSION CO	ONTROL	MAR 1 8 2015  PACKERS Office of Oil and Gas
20) DETA water, b 21) FILTI 22) SPEC 23) CASIN CASING TUBING	ERS (IF ANY CIFICATIONS  NG AND TUBI G OR TYPE Si	d other chemical () Cartridge file () FOR CATH () NG PROGRA	Iters and/or ODIC PR M PECIFICATI	ed to mai coal bed ROTECT	ntain water q filters TION AND	OTHER CORE	COSION CO	CEMENT FILL -UP OR SACKS	MAR 1 8 2015  PACKERS Office of Oil and Gas Dept. of Environmental Protection
20) DETA water, b 21) FILTI 22) SPEC 23) CASIN CASING TUBING	ERS (IF ANY EIFICATIONS  NG AND TUBI G OR TYPE Si	other chemics () Cartridge fi S FOR CATH (NG PROGRA (SI (ze) Grade	Iters and/or IODIC PR M PECIFICAT Weight per ft.	ed to mai coal bed ROTECT	ntain water q filters TION AND	OTHER CORE  FOOTAGE IN  For Drilling	COSION CO	CEMENT FILL -UP OR SACKS	MAR 1 8 2015  PACKERS Office of Oil and Gas
20) DETA water, b 21) FILTI 22) SPEC 23) CASIN CASING TUBING	ERS (IF ANY EIFICATIONS  NG AND TUBI G OR TYPE Si	d other chemical () Cartridge file () FOR CATH () NG PROGRA	Iters and/or ODIC PR M PECIFICATI	ed to mai coal bed ROTECT	ntain water q filters TION AND	OTHER CORE	TERVALS Left In Well	CEMENT FILL -UP OR SACKS (CU. FT.)	MAR 1 8 2015  PACKERS Office of Oil and Gas Dept. of Environmental Protection
20) DETA water, b 21) FILTI 22) SPEC 23) CASIN CASING TUBING Conductor Fresh Water Coal	exclericides and ERS (IF ANY CIFICATIONS OF AND TUBIC GORET TYPE STORY OF THE STORY	other chemics () Cartridge fi S FOR CATH (NG PROGRA (SI (ze) Grade	Iters and/or IODIC PR M PECIFICAT Weight per ft.	ed to mai coal bed ROTECT	ntain water q filters TION AND	OTHER CORE  FOOTAGE IN  For Drilling	TERVALS Left In Well	CEMENT FILL -UP OR SACKS (CU. FT.)	MAR 1 8 2015  PACKERS Office of Oil and Gas Dept. of Environmental Protection Kinds
20) DETA water, b 21) FILTI 22) SPEC 23) CASIN CASING TUBING  Conductor Fresh Wate Coal Intermedia	pactericides and ERS (IF ANY CIFICATIONS NG AND TUBI G OR TYPE Si er	d other chemics  () Cartridge fi S FOR CATH  NG PROGRA  SI ze Grade  7" J-55	Iters and/or IODIC PR M PECIFICAT Weight per ft.	ed to mai coal bed ROTECT	ntain water q filters TION AND	OTHER CORE  FOOTAGE IN  For Drilling	TERVALS Left In Well	CEMENT FILL -UP OR SACKS (CU. FT.)	MAR 1 8 2015  PACKERS Office of Oil and Gas Dept. of Environmental Protection Kinds
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20) DETA water, b 21) FILTI 22) SPEC 23) CASIN CASING TUBING  Conductor Fresh Water Coal Intermedia Production Tubing	pactericides and ERS (IF ANY CIFICATIONS NG AND TUBI G OR TYPE Si er	d other chemics  () Cartridge fi S FOR CATH  NG PROGRA  SI ze Grade  7" J-55	Iters and/or IODIC PR M PECIFICAT Weight per ft.	ed to mai coal bed ROTECT	ntain water q filters TION AND	OTHER CORE  FOOTAGE IN  For Drilling  515'	TERVALS Left In Well 515'	CEMENT FILL -UP OR SACKS (CU. FT.)	MAR 1 8 2015  PACKERS Office of Oil and Gas Dept. of Environmental Protection Kinds  Sizes
20) DETA water, b 21) FILTI 22) SPEC 23) CASING CASING TUBING  Conductor Fresh Wate Coal Intermedia Production	pactericides and ERS (IF ANY CIFICATIONS NG AND TUBI G OR TYPE Si er	d other chemics  () Cartridge fi S FOR CATH  NG PROGRA  SI ze Grade  7" J-55	Iters and/or IODIC PR M PECIFICAT Weight per ft.	ed to mai coal bed ROTECT	ntain water q filters TION AND	OTHER CORE  FOOTAGE IN  For Drilling  515'	TERVALS Left In Well 515'	CEMENT FILL -UP OR SACKS (CU. FT.)	MAR 1 8 2015  PACKERS Office of Oil and Gas Dept. of Environmental Protecti Kinds  Sizes  Depths set
20) DETA water, b 21) FILTI 22) SPEC 23) CASIN CASING TUBING  Conductor Fresh Water Coal Intermedia Production Tubing	pactericides and ERS (IF ANY CIFICATIONS NG AND TUBI G OR TYPE Si er	d other chemics  () Cartridge fi S FOR CATH  NG PROGRA  SI ze Grade  7" J-55	Iters and/or IODIC PR M PECIFICAT Weight per ft.	ed to mai coal bed ROTECT	ntain water q filters TION AND	OTHER CORE  FOOTAGE IN  For Drilling  515'	TERVALS Left In Well 515'	CEMENT FILL -UP OR SACKS (CU. FT.)	PACKERS Office of Oil and Gas Dept. of Environmental Protection Kinds Sizes Depths set Perforations
20) DETA water, b 21) FILTI 22) SPEC 23) CASIN CASING TUBING  Conductor Fresh Water Coal Intermedia Production Tubing	pactericides and ERS (IF ANY CIFICATIONS NG AND TUBI G OR TYPE Si er	d other chemics  () Cartridge fi S FOR CATH  NG PROGRA  SI ze Grade  7" J-55	Iters and/or IODIC PR M PECIFICAT Weight per ft.	ed to mai coal bed ROTECT	ntain water q filters TION AND	OTHER CORE  FOOTAGE IN  For Drilling  515'	TERVALS Left In Well 515'	CEMENT FILL -UP OR SACKS (CU. FT.)	PACKERS Office of Oil and Gas Dept. of Environmental Protection Kinds Sizes Depths set Perforations
20) DETA water, b 21) FILTI 22) SPEC 23) CASIN CASING TUBING  Conductor Fresh Water Coal Intermedia Production Tubing Liners	pactericides and ERS (IF ANY EIFICATIONS NG AND TUBI G OR TYPE Si er  ate 1 4	d other chemics  () Cartridge fi S FOR CATH  NG PROGRA  SI Ze Grade  7" J-55	Iters and/or IODIC PR M PECIFICAT Weight per ft.  24#	ed to mai r coal bed ROTECT	used	OTHER CORE FOOTAGE IN For Drilling 515' 2898'	TERVALS Left In Well 515'	CEMENT FILL -UP OR SACKS (CU. FT.) Use Existing Use Existing	PACKERS Office of Oil and Gas Dept. of Environmental Protection Kinds Sizes Depths set Perforations Top Bottom
20) DETA water, b 21) FILTI 22) SPEC 23) CASIN CASING TUBING  Conductor Fresh Wate Coal Intermedia Production Tubing Liners	pactericides and ERS (IF ANY CIFICATIONS NG AND TUBI G OR TYPE Si er	other chemics () Cartridge fi S FOR CATH (NG PROGRA SI (ze Grade () J-55 () J-55 () PERATING ()	Iters and/or IODIC PR M PECIFICAT Weight per ft.  24#	ions New	uired from	OTHER CORE FOOTAGE IN For Drilling 515' 2898'	TERVALS Left In Well 515'	CEMENT FILL -UP OR SACKS (CU. FT.) Use Existing	PACKERS Office of Oil and Gas Dept. of Environmental Protecti Kinds Sizes Depths set Perforations

50W 2/10/15

WR-	35.	•
Rev.	8/23/	113

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# State of West Virginia Department of Environmental Protection - Office of Oil and Gas Well Operator's Report of Well Work

API 47 033	04905	County HARRISC	N Distr	ict TEN MILE		_
Quad WOLF SUMMIT	Г 7.5'		LYNCH Field	/Pool Name W	OLF SUMMIT	_
Farm name KENNETH			Wel			
Operator (as registered v	vith the OOG)	H.G. ENERGY LLC			<del></del>	
Address 5260 DuPON	IT ROAD	City PAR	KERSBURG	State WV	Zip 26101	
	op hole N	orthing <u>4,348,315 M</u>		543,647 M		_ <del></del>
Landing Point of		orthing				
Вощо	om Hole No	orthing	Easting_		<u> </u>	<del></del>
Elevation (ft) 1,188'	GL	Type of Well	New B Existing	Type of Report	□Interim BFinal	
Permit Type   Devi	ated 🗅 Hor	izontal 🗆 Horizonta	I 6A   ❷ Vertical	Depth Type	□ Deep 🖪 S	Shallow
Type of Operation G	onvert 🗆 De	epen 🗆 Drill 🗆 P	lug Back 🗆 Redrilling	□ Rework	<b>■</b> Stimulate	
Well Type □ Brine Dis	posal 🗆 CBM	□ Gas □ Oil A Secon	ndary Recovery 🗖 Solution	on Mining 🗆 Sto	orage 🗆 Other	
Type of Completion	_	iple Fluids Produce	ed 🗆 Brine 🗆 Gas 🗆	NGL Boil	Other	
Drilled with □ Cable	■ Rotary			Dogo	inend	
Drilling Media Surface	ehole AAir	⊓ Mud	r Intermediate hole	Air o Mud	VOO B Fresh Water	🗆 Brine
Production hole Air						
Mud Type(s) and Addit				MAR 18	3 2015	
N/A				Office of Oil		
				V Dept. of Environ	mental Protection	
Date permit issued	5/31/13	Date drilling commo	encedN/A	Date drilling	ceasedN/	Α
Date completion activiti		6/26/13	Date completion activities	s ceased	6/26/13	_
Verbal plugging (Y/N)	<u>N</u> D	ate permission granted		Granted by		
Please note: Operator is	s required to sub	omit a plugging applicat	ion within 5 days of verba	al permission to p	plug	
Freshwater depth(s) ft	i	None	Open mine(s) (Y/N) dept	ıs	N	
Salt water depth(s) ft	N.I.	one	Void(s) encountered (Y/N	l) depths	N	
Coal depth(s) ft	NIa	ne	Cavern(s) encountered (Y	/N) depths	N	
Is coal being mined in a		N			Reviewed by	<b>:</b>
					•	

WR-35 Rev. 8/23/13	•	•• • •		• • • • • • • • • • • • • • • • • • • •		••	•		Page 2of 4
API 47- 033	04905	Farm na	me_KENNETI	H & DEBOR	AH GASK	INS Well nu	mber_108		
CASING STRINGS	Hole Size	Casing Size	Depth	New or Used	Grade wt/ft		sket th(s)		nt circulate (Y/N) details below*
Conductor			•				, ,		,
Surface	Ì	7"	515'	Existing					Existing
Coal									
Intermediate 1									
Intermediate 2									
Intermediate 3									
Production		4 1/2"	2,898.48'	Existing					Existing
Tubing									
Packer type and de	pth set	•		•		•			•
Comment Details									
CEMENT DATA	Class/Type of Cement	Numbe of Sack			(ield ³/sks)	Volume	Cemer Top (M		WOC (hrs)
Conductor									
Surface	Existing	125							
Coal		<u> </u>							
Intermediate 1									
Intermediate 2									
Intermediate 3									
Production	Existing	150							<del>U</del>
Tubing	<u> </u>						" "		
Drillers TD (ft Deepest forma Plug back pro	tion penetrated	Fifth Sand		Loggers T Plug back			MAR Office		O15 Gas Hai Protection
Kick off depth	(ft)			<del></del>		V	уу Бери от а		
Check all wire	line logs run	□ caliper □ neutron	□ density □ resistivity		ted/direction a ray		uction iperature	□sonic	
Well cored of	Yes 🖺 No	Conventi	onal Side	ewall	We	ere cuttings c	ollected 🖪	Yes 🗆	No
DESCRIBE T		IZER PLACEM						<u> </u>	
					·			<del>.</del>	
WAS WELL	COMPLETED	AS SHOT HOL	E 🗆 Yes 🚇	No D	ETAILS				
WAS WELL	COMPLETED	OPEN HOLE?	□Yes 🚇 🕽	No DET	AILS				
WERE TRAC	ERS USED 0	Yes 🖺 No	TYPE OF	TRACER(S)	USED				

WR-35 Rev. 8/23/13	•	•••		• • •	•	-	•	-	• •	٠	••	•	•	•	•	•	•	•	Page 3 of 4
API 47- 033	3	0490	5		Fan	m nan	ne_KE	ENNE	TH &	DEBC	DRAH	GAS	KINS	_Well	numb	er10	8		

#### PERFORATION RECORD

Stage No.	Perforation date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formation(s)
1	Existing	2792'	2805'	78	Fifth Sand
				<del> </del>	
				1	
				1	:
					Paccived
					MAR 1 8 2015
					au and Gas
					Office of Oil and Protection
					Office of Oil and Gas  WW Dept. of Environmental Protection
				-	

Please insert additional pages as applicable.

#### STIMULATION INFORMATION PER STAGE

Complete a separate record for each stimulation stage.

Stage No.	Stimulations Date	Ave Pump Rate (BPM)	Ave Treatment Pressure (PSI)	Max Breakdown Pressure (PSI)	ISIP (PSI)	Amount of Proppant (lbs)	Amount of Water (bbls)	Amount of Nitrogen/other (units)
1	6/26/13	10	1898	None	1891	10,000	248	
1								
						1		

Please insert additional pages as applicable.

WR-35 Rev. 8/23/13		• ••	•		•		• •	••	• •	• •			Page <u>4</u> of <u>4</u>
API 47- 033	_04905		_ Farm	name_	KENNET	H & DEB	ORA	H GAS	KINS	Well n	umber_	108	
PRODUCING I	FORMATI	ON(S)		DEPT	'HS								
Fifth Sand		•				TVD	278	91'-2805'	•	MD			
			_			_ 1 \ D				_ 1411)			
			_							<b>-</b> -			
Please insert ad	ditional na	pes as an	– inlicable.				_			_			
GAS TEST		_	_	п Оп	en Flow	•	OII	TEST	n Flo	NUV FI	Pumn		
	_			_				•			_	enser.	· <b>.</b>
SHÚT-IN PRE	SSURE	Surface	• • • • • • • • • • • • • • • • • • • •	psı						UKAI	ION OI	- 1ESI _	hrs
OPEN FLOW	Gas	mcfpd	Oil	bpd	NGL	bpd	W	ater b <sub>l</sub>	p <b>d</b> (			RED BY	□ Pilot
LITHOLOGY/	TOP		воттом		тор	воттог	A						
FORMATION	DEPTH IN		EPTH IN FT		TH IN FT	DEPTH IN		DESCR	IBE RO	СК ТҮР	E AND F	ECORD QU	JANTITYAND
	NAME T	VD	TVD		MD	MD		TYPE O	F FLU	D (FRES	HWATE	R, BRINE, C	OIL, GAS, H2S, ETC)
	0				0					Se	e origina	l Well Reco	rd
	ļ			<u> </u>									
	<u> </u>												
												- *4	red
				-						-	-	$\mathcal{C}^{\mathcal{H}}$	
				<u> </u>							1 100		
				-				<u> </u>				AR 18	2015
				1							M	AH 10	
<del>-</del>	<del>                                     </del>			<del></del>									: C29
											C	ffice of Oil	mental Protection
										٧	M Debt	of English	and Gas mental Protection
Please insert ad	lditional pa	ges as a	pplicable.										
Drilling Contra	actor												
Address					City				_	State		Zip	
Logging Comp	any									Stata		7in	
Address		<del></del>			City	•				State		Z.IP	
Cementing Con	mpany												
Address					City					State		Zip	
Stimulating Co	D	roducere	Service C	oro.									
Address 109 Sc	outh Graham	Street		J. p.	City	Zanesville	<del></del>			State	ОН	Zip <u>43</u> 7	701
Please insert ac					0.09								
	$\mathcal{L}$									2.	1/ 1-	<b>.</b>	. 7
Completed by	_	2/ <sub>1</sub>	Held	lonar	<u> </u>	Openio	+	Telep	hone _	30	4 - 4.	20 ~110	43
Signature/	Deir_	Kels			_ Title _	Openo	126	<u></u>	Mg	<u></u>	Date _	11/26	<u> 173                                   </u>
Submittal of W	ydraulic Fr	acturing	Chemical	l Discle	osure Info	rmation	A	ttach co	py of	FRACI	OCUS	Registry	

33049055W 0K# 2960 \$65000

FORM WW-3 (A) 1/12



1) Date:	March 2,	2015				
2) Operat	or's Well	No.	Hiram	Lynch 108	3	
3) API W	ell No.:	47	-	033	-	4905
		State		County		Permit
4) UIC Per	rmit No.	UICS	203301	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.

		oal Operator			
(a) Name	Kenneth & Deborah Gaskins Name	Wolf Run M		/	
Address	46 Chandler Drive Addre	ess 2708 Cranb	erry Square		
	Shinnston, WV 26431	Morgantown	n, WV 26505		
(b) Name	7) (b) C	oal Owner(S) With I	Declaration Of F	Record	
Address	Name				
	Addre	ess			
(c) Name	Name	-			
Address	Addre	-			
Inspector	Sam Ward 7) (c) Co	al I assaulth Deal	-1		
Address	., (-)	oal Lessee with Decl	aration Of Reco	ord	
Address					
Telephone	Buckhannon, WV 26201 Address 304-389-7583	ess			
rerephone	304-389-7363			_	
The Cons plan for e	surveyor's map) showing the well location on Form varieties and Reclamation Plan on Form WW-9 (unlerosion and sediment control and for reclamation for the sediment control and s	ss the well work is ne site and access ro	only to plug a wad.		
The Cons plan for e The date	truction and Reclamation Plan on Form WW-9 (unler rosion and sediment control and for reclamation for the proposed for the first injection or waste disposal	ss the well work is ne site and access ro	ad.	20	15 .
The Consplan for e The date THE REASON PPLICATION	truction and Reclamation Plan on Form WW-9 (unler rosion and sediment control and for reclamation for the proposed for the first injection or waste disposal N YOU HAVE RECEIVED THESE DOCUMENT WHICH ARE SUMMARIZED IN THE "INSTRUCTION" ((FORM WW-3(B))) DESIGNATED TO YOU	ss the well work is the site and access rolling is  "S IS THAT YOU JUSTIONS" ON THE	HAVE RIGH E REVERSE SI	20 TS REGA	RDING THE
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3304905SW



50	U.S. Postal Service™ CERTIFIED MAIL™ RECEIPT (Domestic Mall Only; No Insurance Coverage Provided)
4074 57	Postage \$ 1.61
0000 0	Return Receipt Fee (Endorsement Required)  Restricted Delivery Fee (Endorsement Required)  Restricted Delivery Fee (Endorsement Required)
7014 0510	Total Postage & Fees \$ 7.61 HL 108  Sent To Wolf Run Mining  Street, Apt. No. 2708 Cranberry Square or PO Box No. 2708 Cranberry Square
	or PO Box No. 2108 Cranbul WIV 26505  City, State, ZIP+4 Morgan Town WIV 26505  PS Form 3800, August 2006 See Reverse for Instructions

MAR 18 2015

WV Dapt. of Environmental Protection

WW-9 Rev. 5/10

Page	143 of
API Number 47 - 033	- 4905
Operator's Well No. Him	am Lynch 108

## 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 Name HG Energy, LLC		OP Code 494497948	
Watershed Wizardism Run	Quad	rangle Wolf Summit 7.5'	
Elevation 1188'	County_Harrison	District Ten Mile	
Description of anticipated Pit Wa	ste: Fluids encountered while stimulating	ng the subject well	
Do you anticipate using more that	n 5,000 bbls of water to complete the p	roposed well work? Yes No X	
Will a synthetic liner be used in t	he pit? Yes . If so, wha	t mil.? 20 Mil	
Reuse Off Si			SDW Zliel
-If oil based, what type? Additives to be used?Water, S Will closed loop system be used ' Drill cuttings disposal method? 1	poap, KCI  No  Leave in pit, landfill, removed offsite, et solidify what medium will be used? Co		
on August 1, 2005, by the Office provisions of the permit are enfo law or regulation can lead to enfo I certify under penalty application form and all attachobtaining the information, I bel	of Oil and Gas of the West Virginia De recable by law. Violations of any terrorement action. of law that I have personally examinements thereto and that, based on my leve that the information is true, accumulation, including the possibility of fire Diane White	MAR 1 8	lerstand that the other applicable bmitted on the responsible for are significatived.
Subscribed and sworn before me  Out the Commission expires OCF	Aulory  4 2016	OFFICIA NOTARY STATE OF WE STATE OF WE SEED DIA NOTARY Parkersburg, West My-Commission Ex	L SEAL PUBLIC ST VIRGINIA DULANEY Int Road Virginia 26101

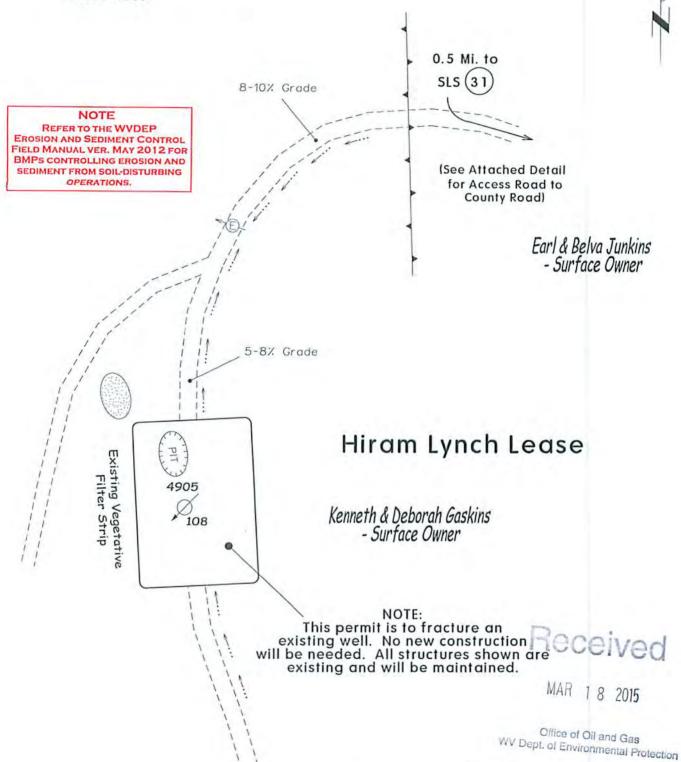
Operator's Well No. Hiram Lynch 108

	LEGEND
Property Boundary	Diversion (1:1(11:11:11:11:11:11:11:11:11:11:11:11
Road = = = = = = = = = = = = = = = = = = =	Spring O
Existing Fence — X — X — X -	Wet Spot
Planned Fence / / /	Drain Pipe with size in inches (2)
Stream	Waterway C+ C+ C+
Open Ditch	> Cross Drain
Rock ESE	Artificial Filter Strip
North N	Pit: cut walls
Buildings	Pit: compacted fill walls
Water wells	Area for Land Application of Pit Waste
Drill site	
Proposed Revegetation Treatment: Acres Disturbe	od0.3 acresPrevegetation pH
Lime2Tons/acre or to o	
	500
Fertilizer (10-20-20 or equivalent)	ios/acre (500 ios illiminum)
<sub>Mulch_</sub> Straw	2 Tons/acre
	Seed Mixtures
Aron T	Area II
Area I	
Seed Type lbs/acre	Seed Type lbs/acre
Seed Type lbs/acre	Seed Type lbs/acre
Seed Type lbs/acre Tall Fescue 40	Tall Fescue 40  Ladino Clover 5
Seed Type Ibs/acre Tall Fescue 40  Ladino Clover 5  ***Sediment Control should be in	Tall Fescue 40  Ladino Clover 5  place at all times**
Seed Type Ibs/acre Tall Fescue 40 Ladino Clover 5	Seed Type 1bs/acre 40 Ladino Clover 5  place at all times**
Seed Type Ibs/acre Tall Fescue 40  Ladino Clover 5  ***Sediment Control should be in  Attach: Drawing(s) of road, location,pit and proposed area	Seed Type 1bs/acre 40 Ladino Clover 5  place at all times**
Seed Type Ibs/acre Tall Fescue 40  Ladino Clover 5  ***Sediment Control should be in  Attach: Drawing(s) of road, location,pit and proposed area	Tall Fescue 40  Ladino Clover 5  place at all times**  for land application.
Seed Type  Tall Fescue  40  Ladino Clover  5  ***Sediment Control should be in Attach: Drawing(s) of road, location,pit and proposed area Photocopied section of involved 7.5' topographic section o	Tall Fescue 40  Ladino Clover 5  place at all times**  for land application.
Seed Type Tall Fescue 40 Ladino Clover 5  ***Sediment Control should be in Attach: Drawing(s) of road, location,pit and proposed area Photocopied section of involved 7.5' topographic section of involved 7.5' topographic section Approved by:  Plan Approved by:  Comments:	Tall Fescue 40  Ladino Clover 5  place at all times**  for land application.  theet.  Received  MAR 1 8 2015
Seed Type  Tall Fescue  40  Ladino Clover  5  ***Sediment Control should be in Attach: Drawing(s) of road, location,pit and proposed area Photocopied section of involved 7.5' topographic section o	Tall Fescue 40  Ladino Clover 5  place at all times**  for land application.  theet.  MAR 1 8 2015

### Reclamation Plan For:

### Hiram Lynch No. 108

47-033-4905



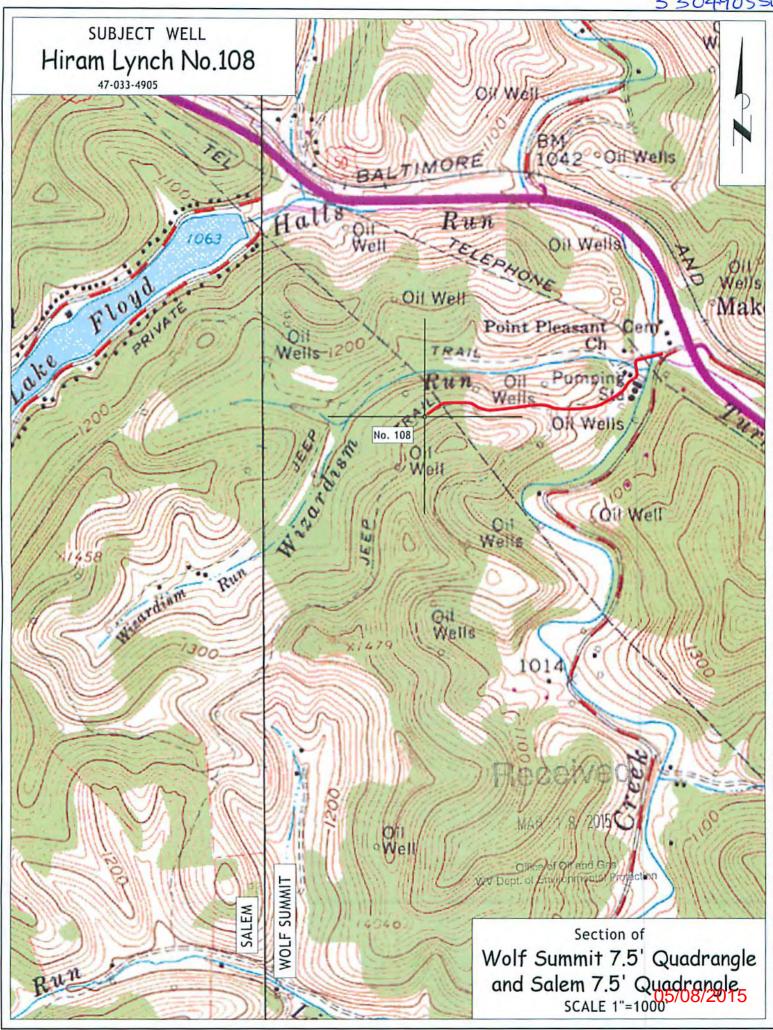
Notes:

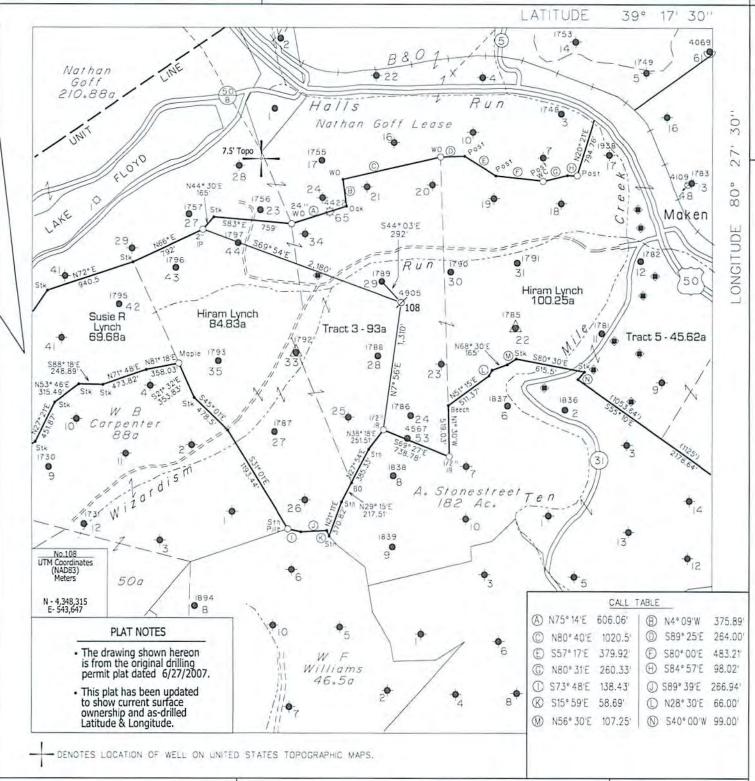
- · Requested permit is for stimulation of existing well.
- Access road from Co. Rd. 31 to location is existing. Structures will be maintained.
- All disturbed areas will be re-vegetated as outlined on Form WW-9.
- Maintain sediment barriers and drainage structures.

zholis

Note: Drawing not to Scale

- Existing Ditch Relief Culvert





FILE NO.\_ MAP NO.\_ 1" = 1000" SCALE \_ MINIMUM DEGREE OF ACCURACY Sub-Meter DGPS PROVEN SOURCE OF

ELEVATION \_\_\_\_ DGPS Survey

I THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAT IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS ALL THE INFORMATION REQUIRED BY LAW AND THE REGU-PRESCRIBED BY LATIONS ISSUED THE DEPART

MENT OF MINES (SIGNED) ROUSH PS 793

DOOTHY P. ROLL BOS/ONAL SURVE

568 Ac. 05/08/2015

#### WEST VIRGINIA

Division of Environmental Protection Office of Oil and Gas 601 57th Street Charleston, West Virginia 25304



February 19, 2015 FARM\_ Hiram Lynch No.108 API WELL NO.

WELL TYPE: OIL \_\_\_GAS \_\_ LIQUID INJECTION X WASTE DISPOSAL \_\_\_ CORE \_ (IF "GAS") PRODUCTION \_\_\_ STORAGE \_\_\_ DEEP\_\_\_ SHALLOW \_\_\_ LOCATION: ELEVATION \_\_\_\_\_ 1,188' \_ WATERSHED\_\_ Wizardism Run

Ten Mile COUNTY Harrison DISTRICT\_ QUADRANGLE Wolf Summit 7.5'

Kenneth & Deborah Gaskins ACREAGE 83.5 Ac. SURFACE OWNER \_\_\_ OIL & GAS ROYALTY OWNER\_ Anne Farr et al.

LEASE NO. 31378-50 FRACTURE OR

PROPOSED WORK: DRILL \_\_ CONVERT \_\_ DRILL DEEPER \_\_ REDRILL \_ STIMULATE X PLUG OFF OLD FORMATION \_\_ PERFORATE NEW FORMATION \_\_\_ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) \_

PLUG AND ABANDON\_ CLEAN OUT AND REPLUC

TARGET FORMATION \_ WELL OPERATOR

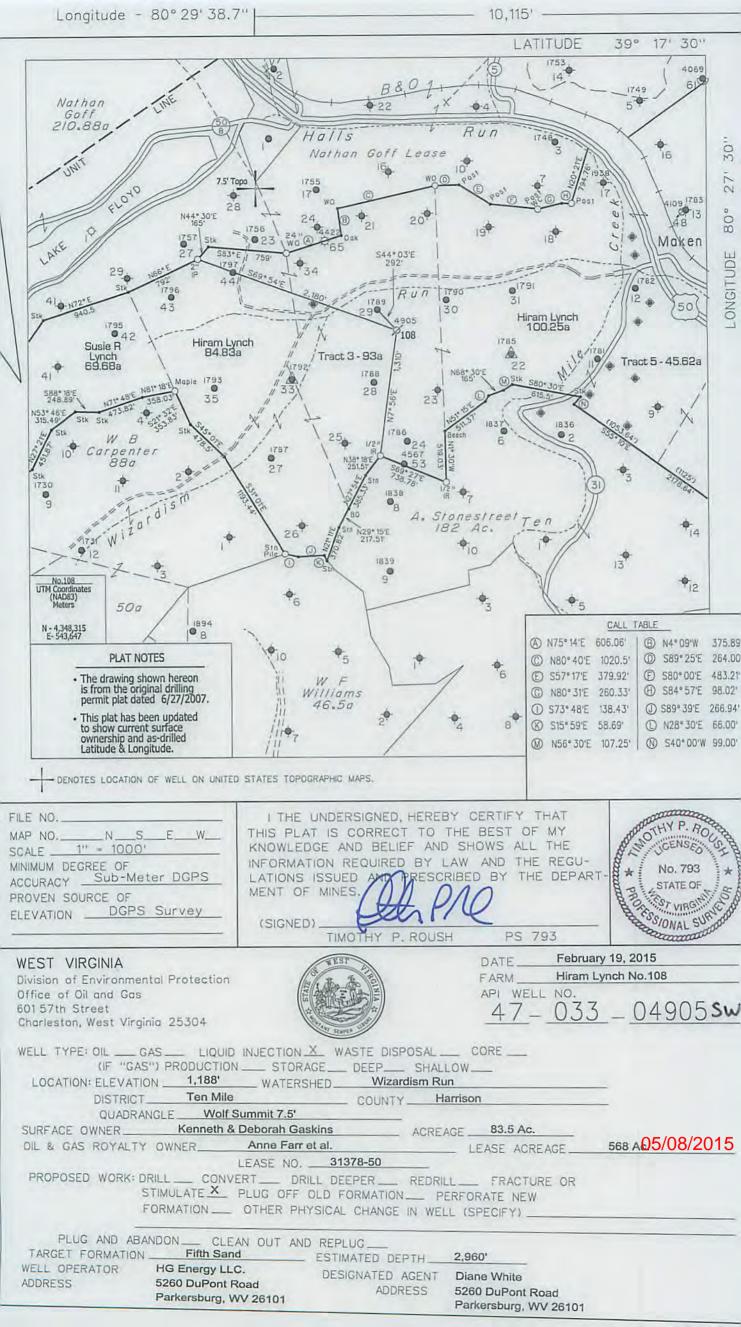
ADDRESS

HG Energy LLC. 5260 DuPont Road Parkersburg, WV 26101

Fifth Sand ESTIMATED DEPTH\_ DESIGNATED AGENT ADDRESS

2,960 Diane White 5260 DuPont Road Parkersburg, WV 26101

LEASE ACREAGE\_



epared for: G Energy	PRODUCERS ERVIGE CORP.		*
INVOICE#: WELL NAME: STATE & COUNTY: TOWNSHIP/FIELD: DATE of SERVICE: CUSTOMER PO#			
Description .	Notes	Amount	Unit
	IDC .	1	EA
LUID PUMP CHARGE 0-3000 PSI MIN CHARGE 4 H	iko	1	EA
DI ENDER CHARGE 0-10 BPM	2 Units @ 70 Miles	149	M
MILEAGE CHARGE PER UNIT ONE WAY	2 Office @ 10 fames	300	GAL
C ACID 15%		0.5	
PRO HIB II		2	HR
ACID DELIVERY		20	
PRO CLA LOK (KCL SUBSTITUTE)		. 10	
PRO NE-21		250	
PRO GEL 4		50	
BUFFERI		50	
BUFFER II		1	
BIO CLEAR 750		22	LB
AP BREAKER	- DOLLOG	15	
BXL-A	SECTION	18	
BXL-10C	10	94	
SAND 20140 ECONOPROP	2015	329	
SAND DELIVERY / TON MILES DATA VAN	MAH 1 8 2015		1 STA
	Office of Oil and Gas		-
yl.	Oilles of Oil and Protection y Desti of Environmental Protection		
		7-30-1 TO 1527 SSA 5. P.S.	_
Customer Approval:			A.S.



#### HG Energy, LLC 5260 Dupont Road Parkersburg, WV 26101 (304) 420-1100 - Office (304) 863-3172 - Fax

CK#2960 \$65000

March 2, 2015

Mr. Jeff McLaughlin WV DEP Division of Oil & Gas 601 57<sup>th</sup> Street Charleston, West Virginia 25304

RE: Hiram Lynch No. 108 (47-033-4905)

Tenmile District, Harrison County

West Virginia

Dear Mr. McLaughlin:

Enclosed are Forms WW-3A, WW-3B, WW-9, mylar of plat, reclamation plan, topo map and copies of the certified mailing receipts for a permit to stimulate the above-captioned liquid injection well. Also enclosed is our check in the amount of \$650.00 to cover the associated permit fees.

Very truly yours,

Diane White

Diane C. White

Enclosures

cc: Kenneth & Deborah Gaskins - Certified

Wolf Run Mining - Certified Sam Ward - Inspector Received

MAR 1 8 2015

Office of Oil and Gas
WV Dept. of Environmental Protection