

#### 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

#### PERMIT MODIFICATION APPROVAL

May 21, 2014

HG ENERGY, LLC 5260 DUPONT ROAD PARKERSBURG, WV 26101

Re: Permit Modification Approval for API Number 3305801 , Well #: S.E. ADAMS NO. 146 MOVED WELL LOCATION ON SAME LEASE

#### Oil and Gas Operator:

The Office of Oil and Gas has reviewed the attached permit modification for the above referenced permit. The attached modification has been approved and well work may begin. Please be reminded that the oil and gas inspector is to be notified twenty-four (24) hours before permitted well work is commenced.

Please call James Martin at 304-926-0499, extension 1654 if you have any questions.

Sincerely,

Gene Smith

Regulatory/Compliance Manager

& min

Office of Oil and Gas

Lene Smith



HG Energy, LLC 5260 Dupont Road Parkersburg, WV 26101 (304) 420-1100 - Office (304) 863-3172 - Fax RECEIVED
Office of Oil and Gas

MAY 2 2014

WV Department of Environmental Protection

May 1, 2014

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

WELL MOVED TO ANOTHER

LOCATION ON THE SAME

LEASE.

RE:

S. E. Adams No. 146 - Request for Revision

Ten Mile District, Harrison County

West Virginia

Diane C White

Dear Mr. McLaughlin:

Enclosed are Forms WW-3A, WW-3B, WW-9, WW-3(B1), mylar of plat, reclamation plan, topo map and copies of the certified mailing receipts for a request to revise a permit to drill a liquid injection well.

Please let me know if you require additional information.

Very truly yours,

Diane C. White

Enclosures

cc: Hilary Heights LTD - Beth A Taylor - Certified

Stacy & Lori Bokey - Certified Wolf Run Mining Co. - Certified

Sam Ward - Inspector

### **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		V	May 1, 201	4	
2) Operator's Well	No.	S	E. Adam	s No	. 146 R
3) API Well No.	47	-	033		47-033-580
	State		County		Permit
4) UIC Permit No		τ	ЛC2R0330	)1AP	80

# 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 TYP!	Ε:	Liquid	Injection	X		Gas Injection	(not storag	ze)	. waste	Disposar_		
) LOCATION	:	Elevation	1267			Wate	ershed	Ten Mi	le Creek			
	District	t	Tenmile		County	Harri	son		Quadrangle	S	alem 7.	5'
) WELL OPE	RATOR:	HG Ener	gy, LLC		494497948	8) DE	SIGNATE	D AGENT		like Kirsch		
Šti		5260 Dup	ont Road			-				260 Dupon		
		Parkersb	urg, WV 2	6101		_			P	arkersbur	g, WV 2	6101
OIL & GAS		OR TO BE		D:		10) D	RILLING (	CONTRAC Name				
	- 2000	P. O. Box				<b>-</b> 83		Address				
			non, WV 2	6201		<b>=</b> 0,} 5::5						
1) PROPOSEI	WEITW	ODK:	Drill	v		- Drill Deeper		Redrill		Stimulate	X	
<ol> <li>PROPOSEI</li> </ol>	WELL W	ORK.			ld Formation			New Form		7	Convert	
			Other 1	Physica	l Change in	Well (specify)			AE-			
<ol> <li>Geological t</li> </ol>	arget form	ation		Fifth S		Deptl		3,240	Ft. (Top) to		3,251	Ft. (Bottom
3) Estimated	lepth of cor	mpleted we	ell (or actu	al dept	h of existing	well)	3400' TM	D	F	t.		
4) Approximat				Fresh		150	Ft.		Salt	1,32	5	Ft.
5) Approximat	e coal sear	n depths:			675		Ft.					
6) Is coal being					Yes		X	No				
7) Virgin rese	rvoir press	ure in targ	et formation	n:		1,	250	psig.	Source		Estima	ted
8) Estimated	eservoir fr	acture pre	ssure:			2,	650	psig.				
9) MAXIMUM				RATIO	NS: Vol	lume per hour	25 BBI		Bottom Hole	Pressure	2	,400 psi
						ECTED, INCL	LIDING AI	DITIVES	Fresh wa	ter, produc	ced wate	r, bactericid
20) DETAILED and other c	hemicals a	s needed to	maintain	water	quality and i	improve oil rec	covery.				TO STEEL STORY	
21) FILTERS (	(F ANY)		Cartridge	filters	and/or coal	bed filters						
22) SPECIFICA	ATION FO	R CATHO	DIC PROT	ECTIO	N AND OTH	ER CORROS	ION CONT	TROL				
** <del> </del>											_	
23) CASING A	ND TUBIN	IG PROGR	AM						т —			
CASING OR	1	SPECI	FICATION	IS		FOOTAGE II	NTERVAL	S	CEMENT	FILLUP	P	ACKERS
TUBING TYPE	Size	Grade	Weight	New	Used F	or Drilling	Left i	n Well	OR SACKS	(CU. FT.)		
Conductor											Kinds	
resh Water	7"	L.S.	17#	Х		725'	72	5'	Cement to S	Surface	Tensio	a
Coal											Sizes	
ntermediate											2.375"	
Production	4 1/2"	J-55	10.5#	X		3400'	34	00'	150 sacks		Depths	Set
Tubing	2 3/8"	J-55	4.6#	X		3140'	31	40'			3140	
Liners											Perfora	STATE OF THE STATE
									-		Top	Bottom
	-	-	-	-					+ -			
24) APPLICAN	THE OPEN	ATTING D	CUTE		inad from	Sara	h E. Adam	15				
24) APPLICAN by Dec		ATING RI Leas			ther Contrac		Dated		6. 1899CEI	VED	of reco	rd in the
by De		Harriso		•	ty Clerk's Of	~		Rook	1100	at Page	144	
		11411150		-	,				e or O	CHIC	127.447.47	

MAY 2 2014



1) Date:		May 1, 20	14		
2) Operator's We	S. E. Adams No. 146 R				
3) API Well No.	47	033	195	47-033-5801	
	State	County		Permit	
4) UIC Permit N	o.	UIC2R03	301AP		

#### STATE OF WEST VIRGINIA NOTICE OF LIQUID INJECTION OR WASTE DISPOSAL WELL WORK PERMIT APPLICATION EOD THE DEDARTMENT OF ENVIRONMENTAL PROTECTION OFFICE OF OIL AND CAS

(a) NameAddress	Hilary Heights LTD - Beth A Taylor		Coal Operator	Harrist I
Address			Name	NA
	142 Valley Street		Address	
FE 1	Salem, WV 26424		5	
(b) Name	Stacy & Lori Bokey	7 (b)	Coal Owner(s	s) With Declaration Of Record
Address	Rt. 1, Box 299 - 46		Name	NA
	Mt. Clare, WV 26408		Address	
(c) Name	Y		-	
Address			Name	
_			Address	
inspector _	Sam Ward	7(c)	Coal Lessee W	ith Declaration Of Record
Address	P. O. Box 2327			Wolf Run Mining Co.
	Buckhannon, WV 26201			2708 Cranberry Square
Telephone	389-7583			Morgantown, WV 26505

The date proposed for the first injection or waste disposal is

To be determined

THE REASON YOU RECEIVED THESE DOCUMENTS IS THAT YOU HAVE RIGHTS REGARDING THE APPLICATION WHICH ARE SUMMARIZED IN THE "INSTRUCTIONS" ON FORM WW-3(A) DESIGNATED TO YOU. HOWEVER YOU ARE NOT REQUIRED TO TAKE ANY ACTION AT ALL.

Take notice that under Chapter 22-6 of the West Virginia Code, the undersigned well operator proposes to file or has filed this Notice and 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."

Well Operator HG Energy, LLC Address 5260 Dupont Road Parkersburg, WV 26101 Diane C. White By: Accountant

Its:

Signature

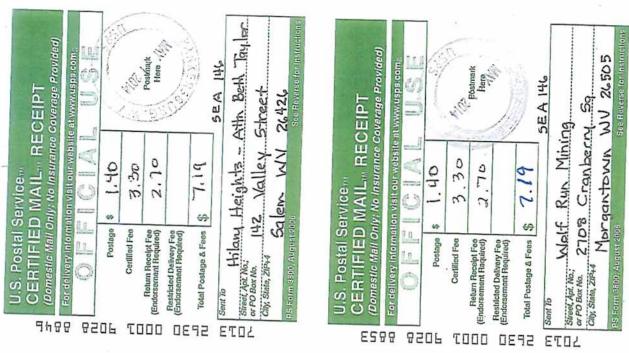
Diane CWhite

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 factor your personal information. If you have any questions about our use of your personal information, please contact DEP's Chief Privacy Officer at:

| department of the privacy Officer at: | department of the privacy Officer at: | department of the privacy Officer at: | department of the privacy Officer at: | department of the privacy Officer at: | department of the privacy Officer at: | department of the privacy Officer at: | department of the privacy Officer at: | department of the privacy Officer at: | department of the privacy Officer at: | department of the privacy Officer at: | department of the privacy Officer at: | department of the privacy Officer at: | department of the privacy Officer at: | department of the privacy Officer at: | department of the privacy Officer at: | department of the privacy Officer at: | department of the privacy Officer at: | department of the privacy Officer at: | department of the privacy Officer at: | department of the privacy Officer at: | department of the privacy Officer at: | department of the privacy Officer at: | department of the privacy Officer at: | department of the privacy Officer at: | department of the privacy Officer at: | department of the privacy Officer at: | department of the privacy Officer at: | department of the privacy Officer at: | department of the privacy Officer at: | department of the privacy Officer at: | department of the privacy Officer at: | department of the privacy Officer at: | department of the privacy Officer at: | department of the privacy Officer at: | department of the privacy Officer at: | department of the privacy Officer at: | department of the privacy Officer at: | department of the privacy Officer at: | department of the privacy Officer at: | department of the privacy Officer at: | department of the privacy Officer at: | department of the privacy Officer at: | department of the privacy Officer at: | department of the privacy O

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Office of Oil and Gas

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Environmental Profession

WW-2B1

Well No. S. E. Adams No. 146 R

#### 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:

Contractor Name	e Sturm Environmental Services
Well operator's	private laboratory
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 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.

No known Water Supply Sources are located within 1000' of proposed well but many water sources have been tested in conjunction with this Wolf Summit drilling program

Pertinent to this well site are:

Stacy & Lori Bokey

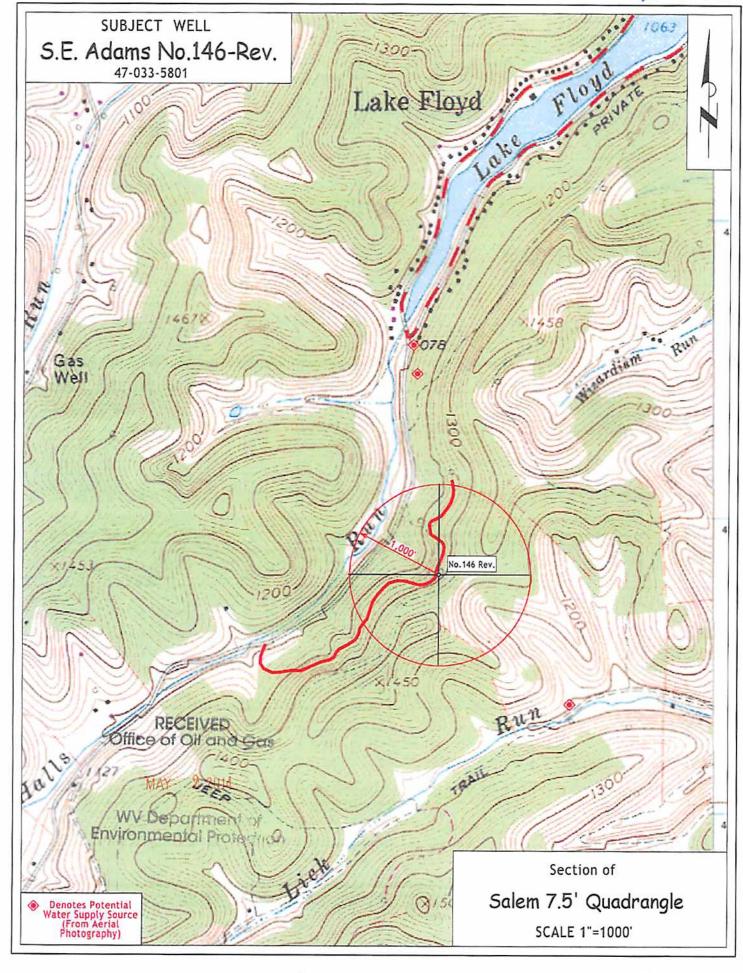
Hilary Heights - Attn: Beth A Taylor

Rt. 1, Box 299 - 46 142 Valley Street
Mt. Clare, WV 26408 Salem, WV 26426

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Office of Oil and Gas

WV Department of Environmental Protection



Form WW-9 Rev. 10/94

	Page	3	of	3
API 1	Number 47-	033		47-033-5801
Operator's Well No.	S. E. Ad	ams No	. 146	R

## STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION OFFICE OF OIL AND GAS

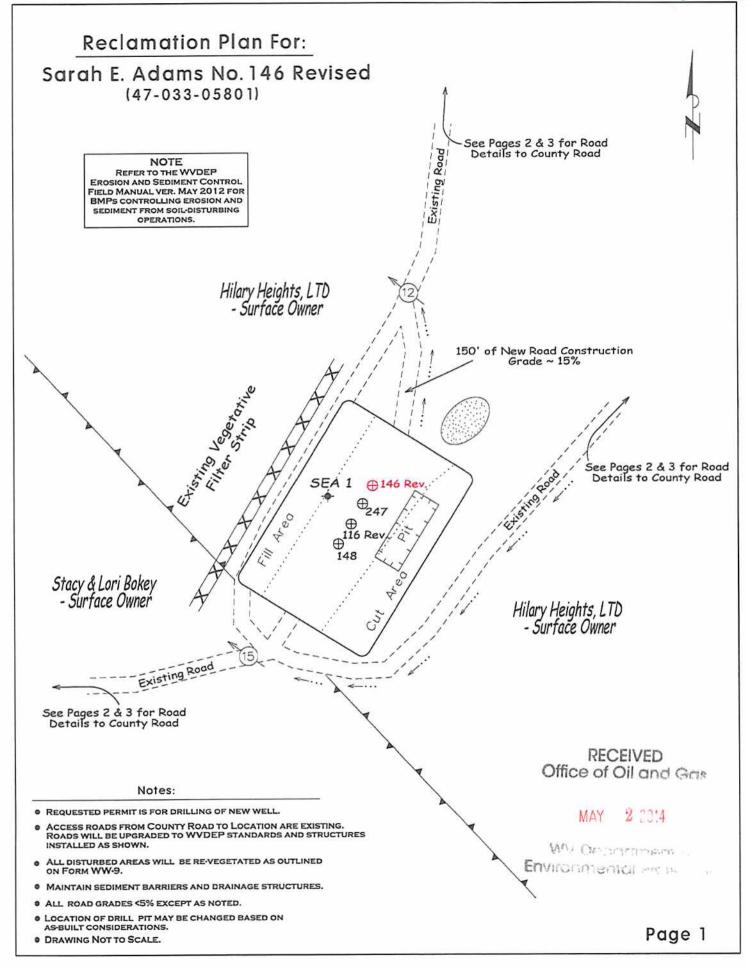
CONSTRUCTION AND RECLAMATION PLAN AND SITE REGISTRATION APPLICATION FORM GENERAL PERMIT FOR OIL AND GAS PIT WASTE DISCHARGE

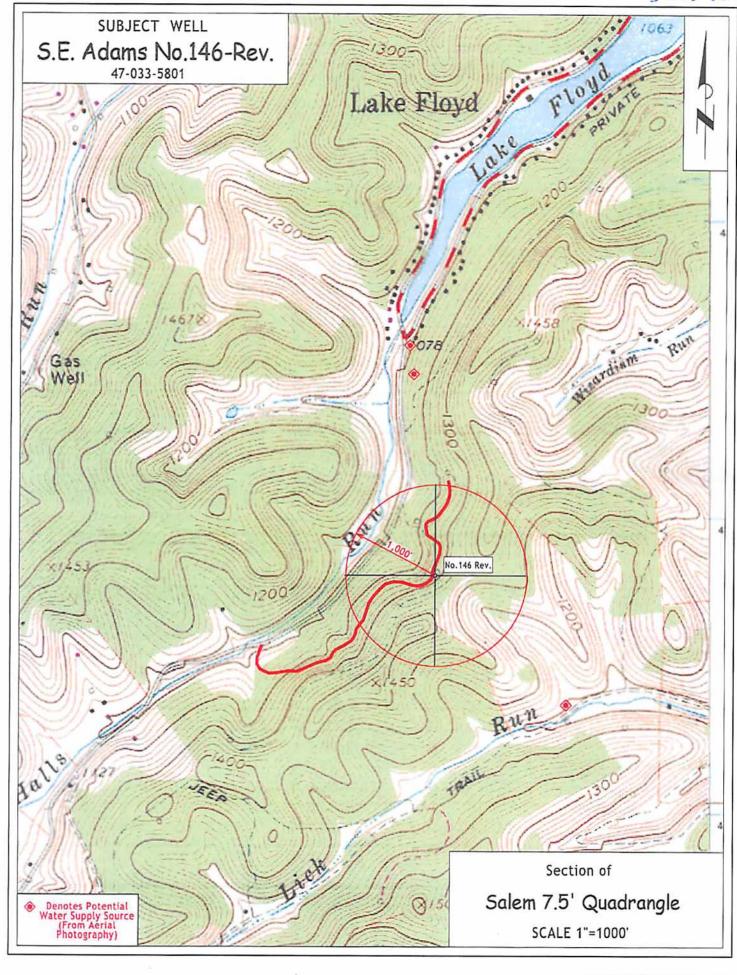
Operator	HG Energy,	LLC			OP Code	494497948
Watershed	Ten Mile Cr	eek		Quadran	ngle	Salem 7.5'
Elevation	1267'	County	Harrison	Dist	rict	Tenmile
Description of	f anticipated Pit Waste:	Fluids enco	untered in drilling shallo	w well.		
Do you antic	pate more than 5,000 bbls o	f water to com	plete the proposed well worl	Yes	No	X
Will a synthe	tic liner be used in pit?	Yes	If so, what mil.?	20 Mil.		-0
Proposed Dis	posal Method For Treated P	it Wastes:				
	X Land Applica					
			Permit Number			)
	Reuse (at AP)	_				)
			orm WW-9 for disposal locat	ion)		,
		(Explain	77 822 S N WAS		84	
Drilling med	ium anticipated for this well			Fresh Wate	r	
Additives to	<ul> <li>If oilbased, what type? Sy be used? Water, Soa</li> </ul>		eum, etc. NA			-
	disposal method? Leave in		emoved offsite, etc.			
	- If left in pit and plan to so	lidify, what me	edium will be used? Cement	t, lime, sawdu	st Native	soil, cement, lime
	- Landfill or offsite name/pe	rmit number?	1/			
this applicate for obtaining penalties for Company C	w or regulation can lead to e I certify under penalty of la ion form and all attachments the information, I believe th submitting false information official Signature official (Typed Name) official Title	w that I have p thereto and t nat the informa	personally examined and am hat, based on my inquiry of ation is true, accurate and co	those individu omplete. I am sonment.	uals immedi	ately responsible
Subscribed	and sworn before me this	£ D. X	day of M2/	2014	Notary	- Public
	A CO	-	A			
My commis	sion expires	1000	NOTARY PUBLIC	7-	045-	RECEIVED
Form WW-		2:12:51	TATE OF WEST VIRGINIA	S	Omce	e of Oil and Gas
		Parl My Co	HG Energy, LLC 5260 Bupont Road ersburg, West Virginia 26101 mmission Expires Nov. 12, 201	18	٨	MAY 2 2014
				and the second	WVI	Department of
				E	nviron	mental Protection

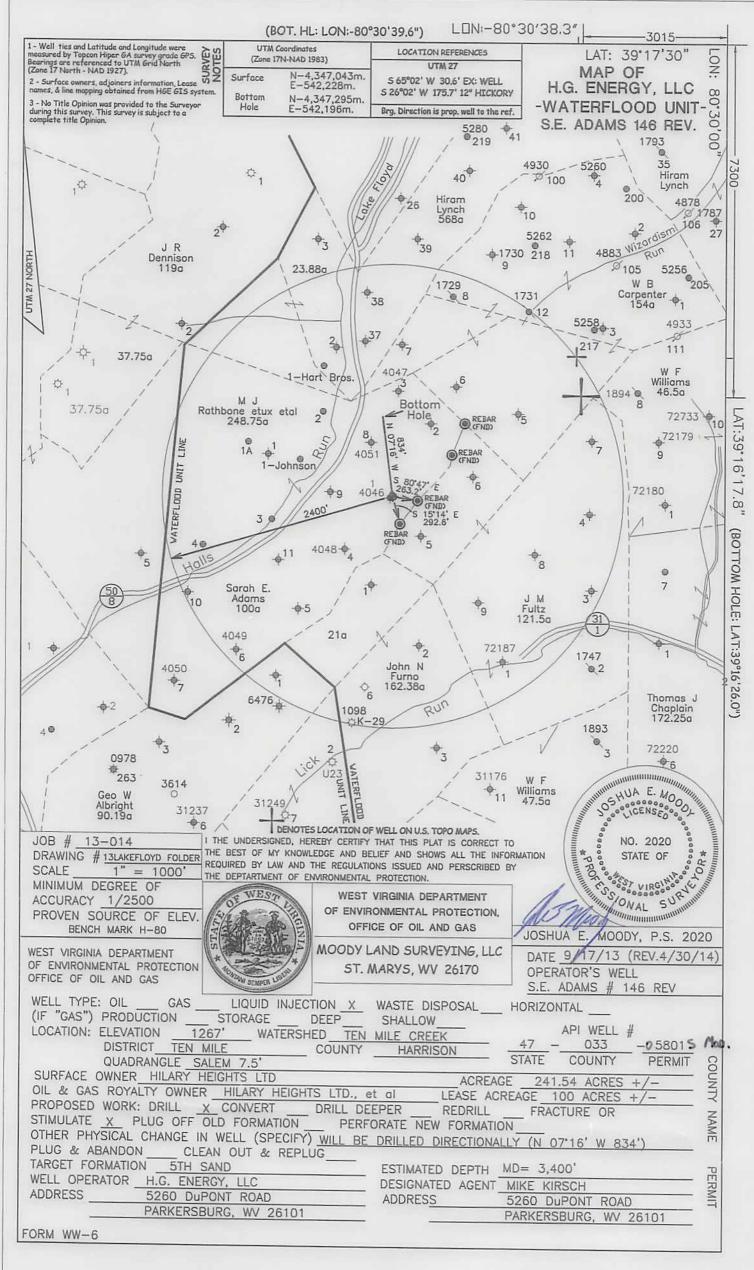
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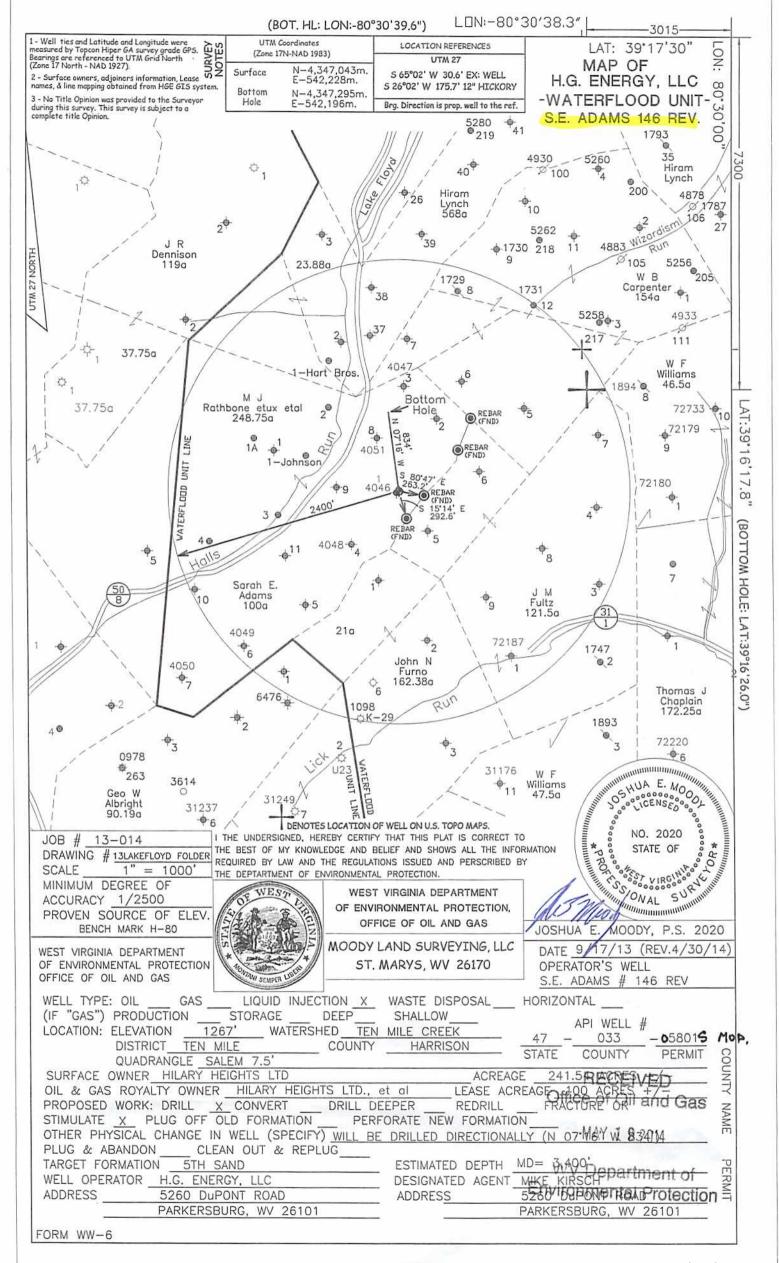
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Road		Spring	<u></u>
Existing Fence	<u>-xxx</u>	Wet Spot	Ŭ I
Planned Fence	-//	Drain Pipe	(12)
Stream		Waterway	$\leftrightarrow$
Open Ditch	>	Cross Drain	
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North	N	Pit: Compacted	VIIII.
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Water Wells	(W)	Area of Land	
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		1	
	Aréa	Ĭ	<del></del>
Proposed Revegetation Treatm	~		evegetation pH
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	Арргох.	1.0 Ac.	
<b>*</b> *	2 Tons/Acre or Cor	rect to pH 6.5	
Lime	<del></del>		lbs. Minimum)
Fertiliz Mulch	er (10-20-20 or Equivalent) 500 Straw 2 Tons/Acr	<del></del>	evo, arammento,
Mulch	·	,	
	SEED MIX	TURES	
Area	I (Location)		Area II (Road)
Seed Type	Lbs/Ac.	Seed Type	Lbs/Ac.
Tall Fescue	<u>40</u> 5	Tall Fescue  Ladino Clover	5
Ladino Clover			ACC MILE
			1 - 5 - 101.
			JAN THE GER PROPERTY
Attach:			od Oll all enter
Drawing(s) of road, location, p	oit and proposed area for land application	•	Office Environment
Photocopied section of involve	sa v.a robokrabme succe		JAN Copt. of Environmental From ton
Plan approved by:	e D Warntt	Mi	had & Yall
Comments: Doe	-seed/wuld allimented	ares as soon	as consomably possible per
INV DED EN	S Manual . Usa rade Et		V
Title: O	14 Gas Tuoporfor	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Date: 12/23/2018
	( <b>V</b> ) Yes		No









#### McLaughlin, Jeffrey W

From:

Diane White <dwhite@hgenergyllc.com>

Sent:

Thursday, May 01, 2014 5:31 PM

To:

McLaughlin, Jeffrey W

Subject:

Request for Revision for SE Adams 146 (API 47-033-05801)

Attachments:

SE ADAMS 146 - REVISION REQUEST.pdf

#### Jeff,

Attached is the revision request for the SE Adams 146 we discussed earlier today. I've sent the certified mailings out and will send the notices to you when I get them back from the Post Office in the morning. I'll send a copy on to Sam as well.

As you'll see, the well is moving from one well pad to another one with three wells located on it. Let me know if you have any questions.

Thank You for Your Consideration,

Diane

#### Diane C. White



#### HG Energy, LLC

5260 Dupont Road Parkersburg, WV 26101 304-420-1119 (O) 304-482-0108 (C)

304-863-3172 (F)

dwhite@hgenergyllc.com

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Office of Oil and Gas

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WV Department of Environmental Protection