

### 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

October 09, 2015

### WELL WORK PLUGGING PERMIT

### Plugging

This permit, API Well Number: 47-9501538, 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.

Upon completion of the plugging well work, the above named operator will reclaim the site according to the provisions of WV Code 22-6-30. The above named operator will also file, as required in WV Code 22-6-23, an affidavit on form WR-38 by two experienced persons in the operator's employment and the Oil and Gas inspector that the work authorized under this permit was performed and a description given. Failure to abide by all statutory and regulatory provisions governing all duties and operations here under may result in suspensions or revocation of this permit and in addition may result in civil and/or criminal penalities being imposed upon the operator.

This permit will expire in two (2) years from date of issue. If there are any questions, please free to contact me at (304) 926-0499 ext. 1654.

Operator's Well No: J. LEMASTERS H-11

Farm Name: WADSWORTH, FRANCES & C.I.

API Well Number: 47-9501538
Permit Type: Plugging

Date Issued: 10/09/2015

## **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. All pits must be lined with a minimum of 20 mil thickness synthetic liner.
- 2. 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.
- 3. Well work activities shall not constitute a hazard to the safety of persons.
- 4. This well is under a consent order and must be plugged under the terms of that agreement.

\$ (0000s

95015	38P
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1) Date July 16 , 2015 2) Operator's Well No. Jasper Lemasters H-11

3) API Well No. 47-005 -01538

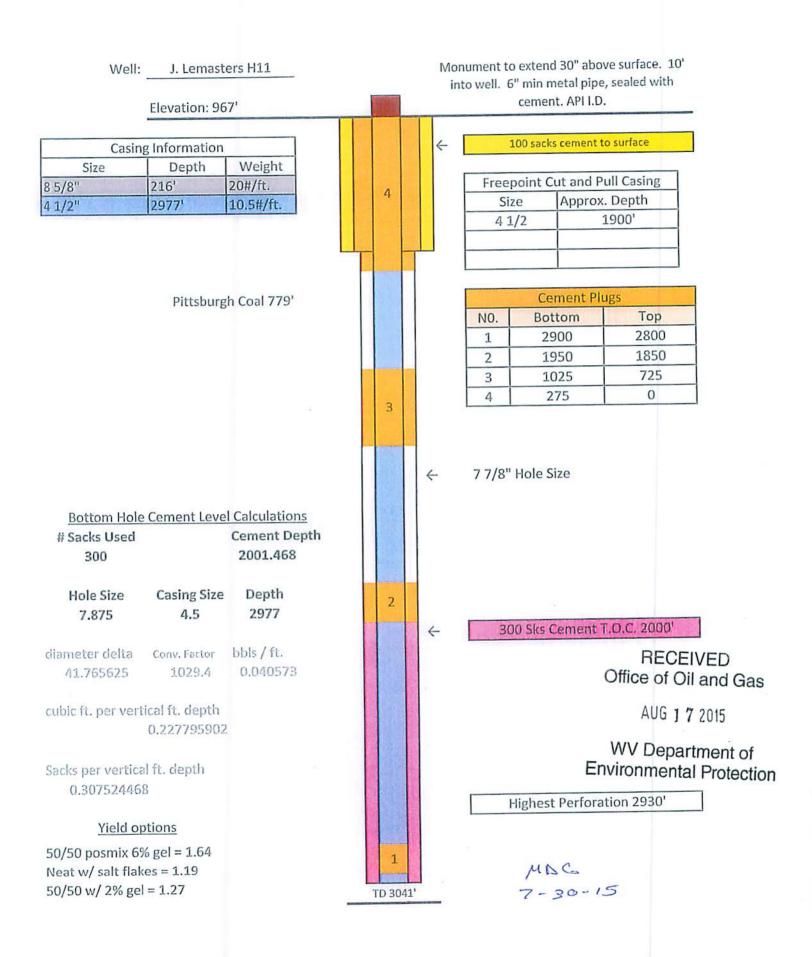
# STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION OFFICE OF OIL AND GAS

	APPLICATION FOR A PERM	MIT TO PLUG AND ABANDON
4)	Well Type: Oil X / Gas X / Liquid	l injection / Waste disposal/
2)	(If "Gas, Production X or Unc	derground storage) Deep/ Shallow X
F-1	967'	Watershed Left Hand Fork
5)	Location: Elevation 967' District McElroy	County Tyler Quadrangle Centerpoint 7.5'
	District	councy
6)	Well Operator HG Energy, LLC	7) Designated Agent Diane White
0)	Address 5260 Dupont Road	Address 5260 Dupont Road
	Parkersburg, WV 26101	Parkersburg, WV 26101
8)	Oil and Gas Inspector to be notified	9) Plugging Contractor
	Name Mike Goff	Name To Be Determined Upon Approval of Permit
	Address PO Box 134	Address
	Pullman, WV 26421	
	**See attached	RECEIVED
		Office of Oil and Gas
		AUG 1 7 2015
		WV Department of Environmental Protection
Noti work	ification must be given to the district o	il and gas inspector 24 hours before permitted
Worl	k order approved by inspector Michael	Date 7-30-15
		10/09/2015

Rev. 2/01

## STATE OF WEST VIRGINIA

		DEPARTM	OFFICE OF OI	RONMENTAL I	ROTECT	ION			
		APPLICATION		IT TO PLUG AN	ID ABAN	DON			
4) WELI	TYPE:	Oil X (If "Gas", Pa	- NV478, Var	X Liquid Injecti Underground		Waste I ) Dee	Disposal S	Shallow x	
5) LOCA	ATION:	Elevation: District:	967' McElroy	Watershed:County:	Left Har Tyler		Quadrangl	Secretary of the secret	
6) WELI	L OPERAT Address	OR: HG Energy, 5260 Dupor Parkersburg	t Road , WV 26101	4.94E+08	7) DESIGN	Addres	5 5260	White Dupont Road ersburg, WV 26101	-
8) OIL & Name Addre		PECTOR TO BE Mike Goff PO Box 134 Pullman, WV 26			9) PLUGG Name Address	-	ACTOR Determined Up	on Approval of Permit	- - - 
10) WOP	K ODDED			of plugging this we	ll is as follo	ows:			MNCs 7-30-15
TD- 3,041		The Homes							7-30-1
Free Poin Plug #2 - Located a Plug #3 - Located a Plug #4 - Located a	2900' - 280 It, part and approx. 19 at 4 1/2" c 1025' - 72 at Elevatio 275' - 0' at 8 5/8" s	I pull 4 1/2" cas 950' - 1850' asing stub 5' n and through F	esh water to sui		cement.		2		
Monument 6" minimu 30" above 10' in well Sealed wit API iden	m diameter surface below surfa	metal pipe ce /2") height numb							
				OFFICE USE O	ONLY				
	:			PLUGGING PI	ERMIT			19	RECEIVED Office of Oil and Gas
the mostin	nit covering	nirements subject t	nd the well location to the conditions cor before actual work h	shown below is evidentained herein and or mas commenced.	lence of pen	nission granted hereof. Notific	Date to plug in acception must be	cordance with given to the	AUG 1 7 2015
	The pe	rmitted work is as o	rse hereof.	ice and Application					WV Department of Environmental Protection
Permit e	opires _			unless plugging is	commenced	prior to that da	te and prosecu	ted with due diligence.	viioninental Flotection
Bond:	Agent	Plat:	Casing:	WPCP	Other				
							Chief, Offic	ce of Oil & Gas	
NOTE:	Keep one co	py of this pennit p	osted at the pluggin	g location.					_
		S 11	side of the APP	LICANT'S COPY I	or instuction	s to the well of	perator		



API # 47- 95-01538 .

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

Well Operator's Report of Well Work

Farm name:	WADSWORTH, FRANCES &	C.Į.	Operator	Well No.:	J.LEMASTE	RS H11
LOCATION:	Elevation: 967'	• •	rangle:			•
	District: MCELROY Latitude: 11,950 Fee Longitude 6,500 Fee	t Sou	ተክ ልቆ ሳሌ	ounty: TYLE Deg. 30 Min Deg. 40 Mi	. 00 Sec.	•
Company: PEN	NZOIL PRODUCTS COMPAN	ĮY .		· 		
VIE	O. BOX 5519 NNA, WV 26105-5519		Casing   &   Tubing	Used in Drilling	Left	Cement Fill Up
	ES A. CREWS		Size		inneria.	Cu. Ft.
Well work Co	ommenced: 7/6/05		2126			. · · · · · · · · · · · · · · · · · · ·
Well work Co Verbal Plugo Permission of Rotary X	ompleted: 0/17/02		8 5/8	216.20	216.20	100 Sks.
Fresh water	depths (ft) N/A	_	4 1/2	2977.66	2977.66	300 Sks.
Salt water d	lepths (ft) N/A	_				· ·
Is coal bein Coal Depths	g mined in area (Y/N)	77 <u>N</u>			[   	चिक्र विक्री पुरत त्रिक व्यक्ष क्ष्म क्ष्म क्ष्म
OPEN FLOW DA	TA			جيد النفي ونت جين هنان حيث خان ونت ونشأ خان ا		
Gas: In Fi Static * Waterfloo Second Gas: In: Fi Tir Static * NOTE: ON BACK	ng formation Goritial open flow * nal open flow * me of open flow between rock Pressure d Producer - Not Tested producing formation itial open flow me of open flow between ock Pressure  (OF THIS FORM PUT RACTURING OR STIMULA) S A SYSTEMATIC DETAIL	MCF/cen in	d Oil: In: i Fir itial and (surface	pressure)  Pay zone ditial open flanal open flanal test pressure)	flow * ow * s after epth (ft) flow ow s after	Bbl/ Bbl/ Hour  Bbl/ Bbl/ Hour Hour
INCLUDING COA	S A SYSTEMATIC DETAI:	WELLE WELLE	SEOLOGICAL SORE.	RECORD OF	ALL FORM	ATIONS
	For: PENI By:	كرا	PRODUCTS	COMPANY	REC Office of	EIVED Oil and Gas
	. Date		12/6/	93	AUG	1 7 2015

WV Department of Environmental Projection

### TREATMENT:

PERFORATED:

2930 - 2944

2 Holes Per Foot - 28 Holes

TREATED:

300 Gal. 15% HCL Acid & 289 Bbl. Gelled Water &

1500# 80/100 Sand & 3500# 20/40 Sand

#### WELL LOG:

Sand & Shale	0 - 630
Sand	630 - 696
Sand & Shale	696 - 1240
Sand	. 1240 - 1290
Shale _	· 1290 - 1442
Sand	1 1442 - 1495
Sand & Shale	1495 - 1645
Sand · · ·	1645 - 1676
Shale '	1676 - 1835
Sand	1835 - 1884
Shale	1884 - 2052
Little Lime	2052 - 2068
Pencil Cave	2068 - 2080
Big Lime	2080 - 2150
Big Injun	2150 - 2350
Shale	2350 - 2908
Stray	2908 - 2915
Gordon	2915 - 2965
T.D.	3041

RECEIVED Office of Oil and Gas

AUG 1 7 2015

WV Department of **Environmental Protection** 

01538

WW-4A Revised 6-07

1) Date:	July 16, 2015	
2) Operato	or's Well Number	
Jasper Lemast		

# STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS NOTICE OF APPLICATION TO PLUG AND ABANDON A WELL

3) API Well No.: 47 -

	NOTICE OF APPLICE	TION TO PLUGANI	D ABANDON A WELL	
4) Surface Own	ner(s) to be served:	5) (a) Coal Operator		
(a) Name	WV DNR	Name	NA	
Address	Capital Complex, Bldg 3, Room 643	Address		
	Charleston, WV 25305			
(b) Name	-	(b) Coal Own	ner(s) with Declaration	
Address		3.7	NA	
		Adduoga		
(c) Name		Name		
Address		Address		
6) Inspector	Mike Goff	(c) Coal Less	see with Declaration	
Address	P. O. Box 134	Name	*11*	
Address	Pullman, WV 26421	Address		
Telephone	304-549-9823			
Telephone	004-040-0020			
Take notice accompany Protection, the Applic	you received these documents is that you are not required to take any action at all.  e that under Chapter 22-6 of the West Virgiting documents for a permit to plug and abat with respect to the well at the location description, and the plat have been mailed by recumstances) on or before the day of mailing	nia Code, the undersigned well of ndon a well with the Chief of the cribed on the attached Application gistered or certified mail or del	operator proposes to file or has filed to Office of Oil and Gas, West Virgir on and denicted on the attached For	this Notice and Application and nia Department of Environmental m WW-6. Copies of this Notice,
certain one	canstances) on or belove one any or maning		F	RECEIVED
			Office	of Oil and Gas
(2)	Well One	rator HG Energy, LLC	00	or On and Gas
Devicability Agrain . 198	OF CIAL SEALBY:	Diane White Dio	ne White A	NUG 1 7 2015
1 10 3	PUBLICIts: \$	Agent		1 7 2015
S S	STA ST VIRGINIA	5260 Dupont Road	WVI	Donarts
	S. DIMINE DULANE Address 5260 Dupon: Road	Parkersburg, WV 26	101 Environs	Department of
	Parkersburg, West Virginia 18101 hor	ae 304-420-1119	LIMIOIII	nental Protection
	My Commission Expires Oct. 1, 2016			
Subscribed and	swern before me this 16th	day of _July 2015		Mac 7-30-15
	Diann Dula	res	Notary Public	7-2
My Commission	n Expires Oct 45	101-		

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 normal 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 depprivacyoffier@wv.gov.

10/09/2015

WW-9 Rev. 5/08

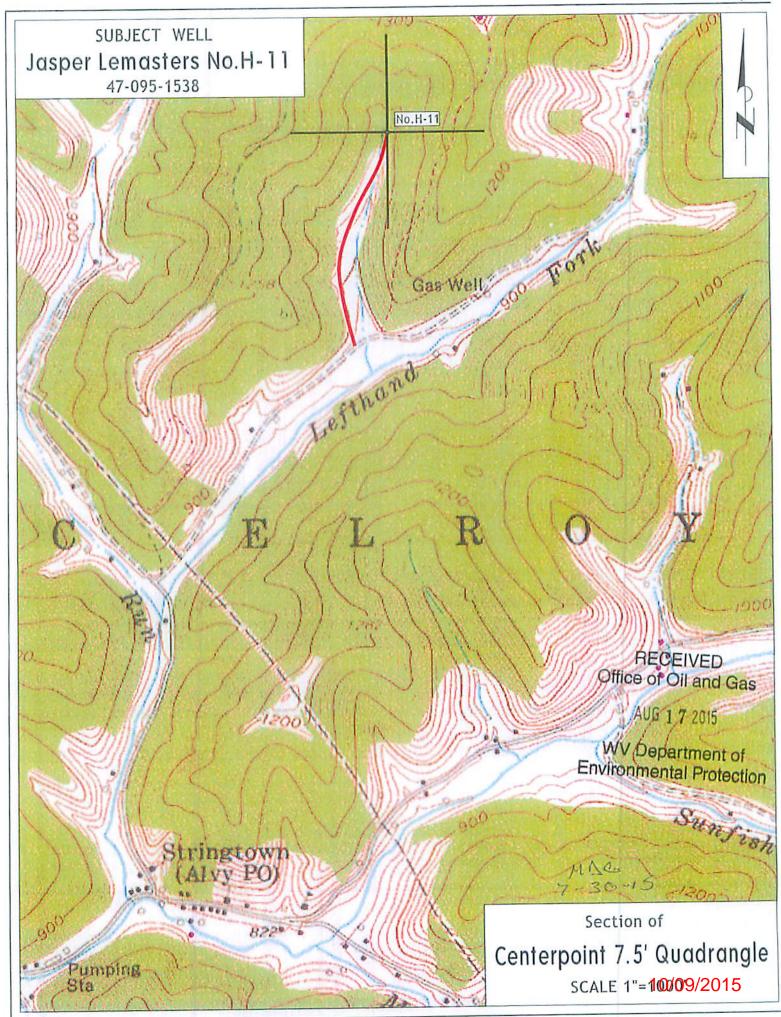
	Page		of	
API Number 47 -	095	-	01538	
Operator's Well N		emaste	ers H-11	

# 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

Description of anticipated Pit Waste:  Elevation 987'  County Tyler  Description of anticipated Pit Waste:  Fluids encountered while plugging subject well  Will a synthetic liner be used in the pit?  Yes 77 must be hard the minument of National Proposed Disposal Method For Treated Pit Wastes:  X Land Application  Underground Injection (UIC Permit Number)  Reuse (at API Number)  Office (Explain)  Proposed Work For Which Pit Will Be Used:  Drilling  Workover  Other (Explain)  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 proposed work regulation can lead to enforcement action.  I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form and all attachments thereto and that, based on my inquiry of those individuals immediately responsible for obtaining the information, including the possibility of fine or imprisonment.  Company Official Signature  Diane White  Agent  My commission expires  Diane White  OFFICIAL SEAL NOTARY PUBLIC  OFFICIAL SEAL NOTARY	GI	ENERAL PERMIT FOR OIL	L AND GAS PIT WASTE	DISCHARGE	
Description of anticipated Pit Waste:    County Tyler	Operator Name HG Energ	y, LLC	OP	Code 494497948	
Description of anticipated Pit Waste:  Fluids encountered while plugging subject well  Will a synthetic liner be used in the pit?  Yes 7t must be lined with a minimum of 20 mil thickers synthetic liner be used in the pit?  Yes 7t must be lined with a minimum of 20 mil thickers synthetic liner.  Proposed Disposal Method For Treated Pit Wastes:  X Land Application  Underground Injection (UIC Permit Number  Reuse (at API Number  Off Site Disposal (Supply form WW-9 for disposal location)  Other (Explain  Proposed Work For Which Pit Will Be Used: Drilling Swabbing  Workover X Plugging  Other (Explain  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 enforceable 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 certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form and all attachments thereto and that, based on my inquiry of those individuals immediately responsible for belianing the information, believe that the information is true, accurate, and complete. I am aware/DELIVET significant penalties for submitting false information, including the possibility of fine or imprisonment.  Office of Oil and Gas  Company Official Signature  Diame White  Augent  OFFICIAL SEAL (CTARY PUBLIC STATE OF WEST VIRGINA S. JUANNE DULANNE. S					
Description of anticipated Pit Waste:    Fluids encountered while plugging subject well		County Tyler			
Will a synthetic liner be used in the pit?	Description of anticipated Pit Wa	aste: Fluids encount	ered while pluggi	ng subject well	
* Land Application Underground Injection (UIC Permit Number Reuse (at API Number Off Site Dispposal (Supply form WW-9 for disposal location)  Other (Explain Other (Explain Swabbing Workover X Plugging Other (Explain Swabbing Swabbing Workover X Plugging Other (Explain Swabbing Swabbing Workover X Plugging Other (Explain Swabbing Swa	Will a synthetic liner be used in	the pit? Yes	7:4 must be lined 20 mil thickness	synthetre liner.	MACO -130-15
Drilling Workover Nugging  Workover Nugging  Other (Explain  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 enforceable 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 certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form and all attachments thereto 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 PEOEIVED significan penalties for submitting false information, including the possibility of fine or imprisonment.  Office of Oil and Gas  Company Official Signature  Diane White  Agent  WV Department of Environmental Protection  Subscribed and sworn before me this  John July  OFFICIAL SEAL NOTARY PUBLIC STATE OF WEST VIRGINIAS JIANNED DULANEY 3250 Dupont Road Parkerburg West Virginia 28101, NOTARY PUBLIC STATE OF WEST VIRGINIAS JIANNED DULANEY 3250 Dupont Road Parkerburg West Virginia 28101, Wy Commission Expires Oct. 4, 2014	Land Unde Reuse Off S	Application rground Injection (UIC Per e (at API Number ite Dispposal (Supply form	mit Number		
on August 1, 2005, by the Office of Oil and Gas of the West Virginia Department of Environmental Trotection.  I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form and all attachments thereto 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 PEOEIVED significan penalties for submitting false information, including the possibility of fine or imprisonment.  Company Official Signature  Diane White  AUG 17 2015  WV Department of Environmental Protection  Subscribed and sworn before me this  Agent  OFFICIAL SEAL NOTARY PUBLIC STATE OF WEST VIRGINIA SIANNE DULANEY 5260 Dupont Road Parkersburg West Virginia 2e101 My Commission Expires Oct. 4, 2014	Drilli Work	ng cover			
Company Official (Typed Name)  Agent  Subscribed and sworn before me this 16th day of July  Subscribed and sworn before me this 2015  My commission expires  Diane White  WV Department of Environmental Protection  OFFICIAL SEAL NOTARY PUBLIC STATE OF WEST VIRGINIA S. JIANNE DULANEY 5260 Dupont Road Parkersburg, West Virginia 26101 My Commission Expires Oct. 4, 2016	on August 1, 2005, by the Office provisions of the permit are enlaw or regulation can lead to en I certify under penalty application form and all attace obtaining the information, I be penalties for submitting false in	e of Oil and Gas of the West forceable by law. Violation forcement action.  y of law that I have person hments thereto and that, believe that the information formation, including the pos	is of any term or condition ally examined and am far ased on my inquiry of the is true, accurate, and con	miliar with the information of the general permit miliar with the information in the information of the info	and/or other applicable nation submitted on this ediately responsible for ECEIVED significant of Oil and Gas
Subscribed and sworn before me this 16th day of July 20_15  Subscribed and sworn before me this 20 Use of the state of the		Diane White			_
My commission expires  OFFICIAL SEAL NOTARY PUBLIC STATE OF WEST VIRGINIA S. DIANNE DULANEY 5260 Dupont Road Parkersburg. West Virginia 26101 My Commission Expires Oct. 4, 2016			,	Environn	pepartment of nental Protection
My commission expires  OFFICIAL SEAL NOTARY PUBLIC STATE OF WEST VIRGINIA S. DIANNE DULANEY 5260 Dupont Road Parkersburg. West Virginia 26101 My Commission Expires Oct. 4, 2016	Subscribed and sworn before n	ne this_16th_day o	<sub>f_</sub> July	20_15	
		Wes Delan		ST	NOTARY PUBLIC ATE OF WEST VIRGÍNIA S. DIANNE DULANEY 5260 Dupont Road kersburg, West Virginia 26101 ommission Expires Oct. 4, 2016

		LEGEND	
Property Boundary		Diversion Lealle 1991	ULLI LILLIANI
Road = = = = =		Spring O->	
Existing Fence — X —		Wet Spot	
Planned Fence/_		Drain Pipe with size in inches	(3
		Waterway C+ C+	$\Rightarrow \Leftrightarrow \Leftrightarrow \Leftrightarrow$
105			
Rock #85882		Artificial Filter Strip XXXX	XXXXXXXXXXXXX
North N		Pit: cut walls	
Buildings E		Pit: compacted fill walls	Will the same of t
Water wells		Area for Land Application of Pi	t Waste
Drill site		(===	
Dinishe			
		•	
Proposed Revegetation Treatm	ment: Acres Disturbed 0.7	acres Prevegetation pH	
3		6.5	
Lime3		pH	
Fertilizer (10-20-20	or equivalent)500	_lbs/acre (500 lbs minimum)	
Mulch Straw	2	ons/acre	
Mulch	10	ms/acre	
		Seed Mixtures	
Are	ea I	Are	ea II
Seed Type	lbs/acre	Seed Type	lbs/acre
Tall Fescue	40	Tall Fescue	40
Ladino Clover	5	Ladino Clover	5
			RECEIVED
-		(	Office of Oil and Gas
Attach:		8	
Drawing(s) of road, location,	pit and proposed area for land	application.	AUG 1 7 2015
Photocopied section of involv	ved 7.5' topographic sheet.		MAN Department of
			WV Department of vironmental Protection
M. 1	1 01 11		VIIOHIHEIILAFFIOLEGION
Plan Approved by: \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	al Doff		
Comments: Presee	d & mulch ar	ry disturbed ac	eas
		/	
011 40	T . C. 22 + -	Data: 7-30:-15	
Title: U. 14 Coas	Inspector	Date: 7-30-13	
Field Reviewed?	) Yes (	V) No	



## West Virginia Department of Environmental Protection Office of Oil & Gas

## **WELL LOCATION FORM: GPS**

API: 47-	095 - 1538	WELL NO:	H-11
FARM NAME:	Jasper Lemasters No.H-11	-	
RESPONSIBLE PARTY N	AME: H.G. Energy, LLC		
COUNTY:	Tyler	DISTRICT:	McElroy
QUADRANGLE:	Centerpoint 7.5'		
SURFACE OWNER:	W.Va. Dept. of Natural Reso	urces	
ROYALTY OWNER:	American Energy Partners,	LLC et al.	
UTM GPS NORTHING:	4,368,659 (NAD 83	3)	
UTM GPS EASTING:	526,717 (NAD 83	B) GPS ELEVATION:	295 m.
preparing a new well locati	ned above has chosen to submit GPS of ion plat for a plugging permit on the a GPS coordinates that do not meet the	bove well. The Office	
1. Datum: NA	D 1983, Zone:17 North, Coordinate		
2. Accuracy to	te mean sea level (MSL) - meters.  Datum - 3.05 meters etion Method:	O	RECEIVED ffice of Oil and Gas
Survey Grade G	PS — Post Processed Differential Real-Time Differential		AUG 1 7 2015
Mapping Grade	GPS X Post Processed Differential Real-Time Differential	X Envi	/V Department of ronmental Protection
_	ertify this data is correct to the best of cormation required by law and the regulation of Gas.	•	
Diane White	Diane C. White	Designated Ag	ent
Signature		Title	
June 3,	2015		