

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 03, 2015

WELL WORK PLUGGING PERMIT

Plugging

This permit, API Well Number: 47-10301958, 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: F. L. HOGE 12

Farm Name: WV PUBLIC LANDS

API Well Number: 47-10301958 Permit Type: Plugging

Date Issued: 08/03/2015

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. 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.

WW-4B Rev. 2/01

1) Date	, 20
2)Operator's	
Well No. FL Hoge	12
3) API Well No. 4	17-103 - 1558

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/ Liquid (If "Gas, Production or Und	d injection/ Waste disposal/ derground storage) Deep/ Shallow_X
5) Location: Elevation 1007' District Green	
6) Well Operator Address Address HG Energy, LLC 5260 Dupont Road Parkersburg, WV 26101	7) Designated Agent Diane White Address 5260 Dupont Road Parkersburg, WV 26101
8) Oil and Gas Inspector to be notified Name Derek Haught Address P. O. Box 85 Smithville, WV 26178	9) Plugging Contractor Name_To Be Determined Upon Approval of Permit Address
10) Work Order: The work order for the man	nner of plugging this well is as follows: Sheet"
Notification must be given to the district work can commence.	oil and gas inspector 24 hours before & Caster
Work order approved by inspector	Date <u>7-6-65</u> 08/07/2015

WW-4B Rev. 2/01

I	Date:	Ju	ne 22, 2	015			
(Operator's	Well 1	Number				
			L Hoge				
-	API Well	No:	47	+	103	+	1958
1			State		County		Permit

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

APPLICATION FOR A PERMIT TO PLUG AND ABANDON

4) WELL TYPE:		X Gas, Production	Liquid Injec Undergroun		Waste Dispo		ıllow x	
5) LOCATION:	Elevation: District:	1107' Green	Watershed:County:	Cale Run Wetzel	Qı	uadrangle	Centerpoint 7.	.5'
6) WELL OPERA Addres	s 5260 Du	gy, LLC pont Road ourg, WV 26101	4.94E+08	7) DESIGNAT	Address	Parkers	White upont Road burg, WV 2610	1
8) OIL & GAS IN Name Address	P. O. Box 85 Smithville, V	vV 26178		NameAddress		OR mined Upon	Approval of Perr	nit
10) WORK ORDE TD- 3,140' Manners of plugg Plug #1 2900' - 20 Located above lov Plug #2 - 2250' - 2 Located across pe Free point, part a Plug #3 -1950' - 1 Located at 4 1/2" Plug #4 - 1050' - 2 Located at elevat Plug #5 - 300' - 0 Located at 8 5/8'	ing; 800' wer preforation 150' erforations (21 nd pull 4 1/2" 850' casing stub 750' – 500' ion and throug	ns 80' - 2195') casing at approx. gh Pittsburg Coal	1900' ; conc @ 5	29'.		-35 Le @	STATES 529	
6" minimum diamete 30" above surface 10' in well below sur 6% Gel between all API identification	face	mbering		DAH 0-6-15				

Received Office of Oil & Gas JUL 13 2015

Monument to extend 30" above surface. 10' Well: F.L. Hogue #12 into well. 6" min metal pipe, sealed with cement. API i.D. Elevation: 1007' cement to surface 4 Casing Information Weight Depth Size 5 Freepoint Cut and Pull Casing 253 20#/ft. 8 5/8" Approx. Depth Size 3083 10.5#/ft. 4 1/2" 1900 41/2 Cement Plugs Top Bottom NO. 2800 2900 1 2150 2250 2 Pittsburgh Coal 828' 1850 1950 3 750 1050 4 4 0 5 300 77/8" Hole Size 4 **Bottom Hole Cement Level Calculations** Cement Depth # Sacks Used 2041.33 280 Depth Casing Size Hole Size 3 3083 4.5 7.875 280 Sks Cement T.O.C. 2040' 4 bbls / ft. Conv. Factor diameter delta 0.040573 1029.4 41.765625 cubic ft. per vertical ft. depth 2 0.227795902 Sacks per vertical ft. depth Perforations 2180' - 2195', 2992' - 2998' 0.268799164 Office of Oil & Gas

Only

Oloric JUL 1 3 2015 Yield options 50/50 posmix 6% gel = 1.64 Neat w/ salt flakes = 1.19 TD 3140' 50/50 w/ 2% gel = 1.27

API#

10301958A 3-Jun-03 47 103 1958

Stringtown

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

Farm name:	W V PUBLI	CLANDS	Operator Well	NE LIOCI	IT 10	7	. 1
LOCATION:			Operator wer	INO.: HOGE	DE 12	(1)	-11-
CO CILIANO	Elevation:	1,007.00	Quadrangle:	CENTERPO	DINT 7.5'		4
	District: Latitude: Longitude:	GREEN 8,600 Feet sou 5,275 Feet we	th of 39 Deg 30	ETZEL) Min 30) Min 00	Sec. Sec.		
Company:	P.O. BOX 5	OURCES, INC. 519 VV 26105-5519	Casing & Tubing		Left in Well	Fi	ment ll Up 1. Ft.
Agent:	PHILIP S. C)NDRUSEK	Size				
Inspector: Permit Issued: Well work Con Well work Con Verbal pluggin permission gran Rotary X Total Depth (fe	npleted: g nted on: Cableeet)	06/03/03 06/03/03 06/25/03 07/15/03 Rig 3140 NA	8 5/8"	253.00' 3083.50'	253.00' 3083.50'	110	sks
Salt water dept		NA NA Y/N) N					
Is coal being m Coal Depths (f		529					
Gas:	cing formation Initial open Final open Time of o	flow * flow the flow between in		Pay zone do itial open flow nal open flow	epth (11)	2986-2	2998 Bbl/d Bbl/d Hours
Secon Gas:	d producing for Initial open Final open Time of open rock pressure	ormation flow flow pen flow between in	MCF/d Oil: In	Pay zone ditial open flow			Bbl/d Bbl/d Hours
NOTE: ON BAC	K OF THIS FOR	M, PUT THE FOLLOWI CHANGE, ETC. 2) THE L FORMATIONS, INCL	WELL LUIT WHICH IS	Unitediate	TO TOTAL STREET	CTURING	3
			AST RESOURCES,	010	lelle-		

JUL 1 3 2015

<u>Treatment:</u> This well was not completed

Well Log:	Ò	140	Sand and Shale
	140	206	Sand
	206	610	Shale
	610	724	Sand
	724	826	Shale
	826	850	Sand
	850	874	Shale
	874	932	Sand
•	932	1252	Shale
	1252	1326	Sand
	1326	1378	Shale
	1378	1446	Sand
	1446	1465	Shale
	1465	1514	Sand
	1514	1554	Shale
•	1554	1600	Sand
	1600	1870.	Shale
	1870	1914	Sand
	1914	1948	Shale
	1948	1988	Sand
•	1988	2080	Shale
	2080	2110	Sand
	2110	2174	Big Lime
	2174	2360	Big Injun
	2360	2960	Shale
•	2960	2986	Gordon Stray
•	2986	2998	Gordon
	2998	3140	Shale

WW-4A Revised 6-07

1) Date:	June 22, 2015	
2) Operate	or's Well Number	
F. L. Hoge 12		

3) API Well No.: 47 -

103 -

1958

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

	ner(s) to be served:	5) (a) Coal Operato Name	NA
(a) Name	West Virginia Dept of Natural Resource	Address	IM
Address	Capital Complex, B3, Room 643	Address	-
Several and	Charleston, WV 25305	(h) Conl ()	wner(s) with Declaration
(b) Name	-	Name	NA NA
Address	-	Address	NA
		Address	
20.81		Name	NA
(c) Name	-	Address	-
Address	-		V
W Turnanton	Derek Haught	(c) Coal L	essee with Declaration
G) Inspector Address	P. O. Box 85	Name	NA
Address	Smithville, WV 26178	Address	
Telephone	304-206-7613		
relephone	501.2001.013		
(2) The The reaso However,	lits and the plugging work order; and plat (surveyor's map) showing the wel n you received these documents is that you you are not required to take any action at all	l location on Form WW-6. have rights regarding the app	nlication which are summarized in the instructions on the reverses side
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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.

WW-9 Rev. 5/08

	Page		of	
API Number 47	_ 103		1658	
Operator's Well 1	No. FL Hoge	12		

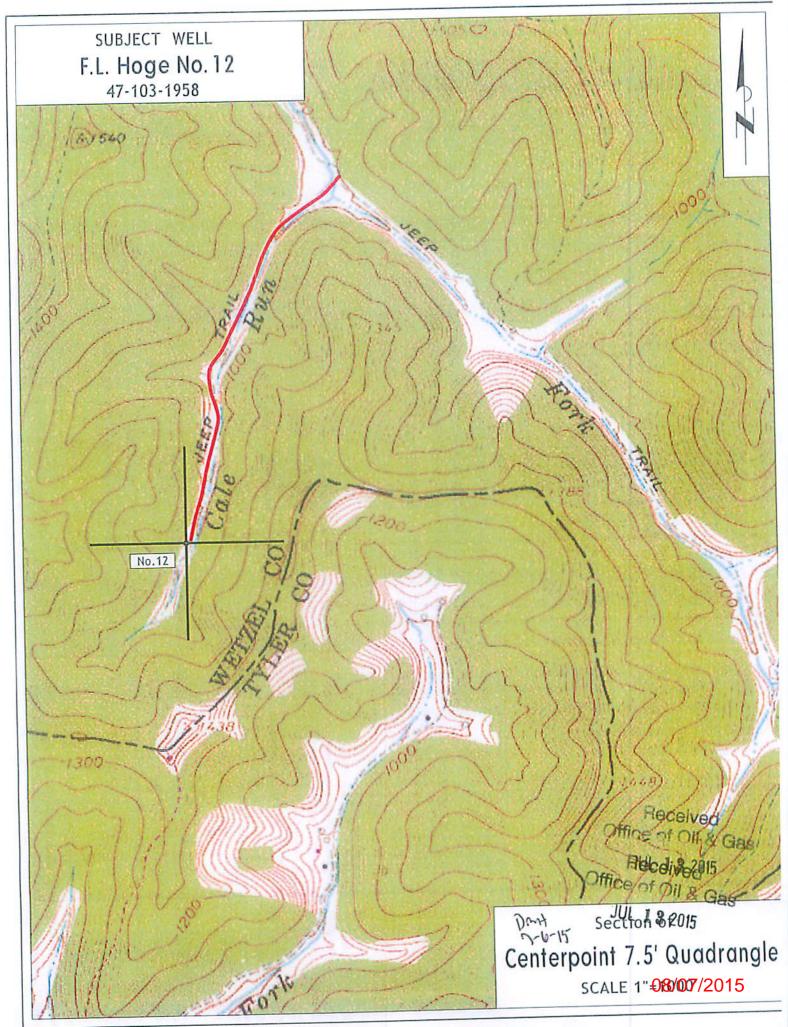
STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION OFFICE OF OIL AND GAS

CONSTRUCTION AND RECLAMATION PLAN AND SITE REGISTRATION APPLICATION FORM

HCI		O GAS PIT WAST	P Code 494497948
ator Name_ HG L	Energy, LLC	Cont	corpoint 7.5'
tershed Cale Rur	1	Quadrangle Cen	erpoint 7.0
tersned	County_Wetzel		District Green
vation 1007	County_ vot25		ing aubject well
	ted Pit Waste: Fluids encountere	d while plugg	ging subject wen
scription of anticipal			
ill a synthetic liner b	e used in the pit? Yes 20 acc.		DAH
			DNH 7-6-15
oposed Disposal Me	thod For Treated Pit Wastes:		1-0 13
X	Land Application	Jumher	
	thod For Treated Pit Wastes: Land Application Underground Injection (UIC Permit)	Tullige.	
	Reuse (at API NumberOff Site Dispposal (Supply form WW	-9 for disposal loca	tion)
	Off Site Dispposal (Supply form www.	A CENTRAL PROPERTY.	
-	Other (Explain		
	n : 1 Dit Will Be Heed:	Europe Ser	
roposed Work For W	Vhich Pit Will Be Used:	Swabbing	
-	Workover	X Plugging	
_	Works		
	Other (Explain	onditions of the GI	ENERAL WATER POLLUTION PERM of Environmental Protection. I understan
I certify that on August 1, 2005, b provisions of the per law or regulation can I certify un	other (Explain	f any term or condi / examined and and d on my inquiry of true, accurate, and	familiar with the information submitted those individuals immediately respondented. I am aware that there are seen to the complete.
I certify that on August 1, 2005, be provisions of the per law or regulation can I certify un application form an obtaining the information penalties for submitted Company Official S	other (Explain	f any term or condi / examined and and d on my inquiry of true, accurate, and	from familiar with the information submitted those individuals immediately responsionable. I am aware that there are sisonment.
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I certify that on August 1, 2005, be provisions of the per law or regulation car I certify unapplication form an obtaining the information penalties for submitted Company Official Secondary Official Company Off	other (Explain	f any term or condi- y examined and and d on my inquiry of true, accurate, and ility of fine or impr	familiar with the information submitted those individuals immediately respondented. I am aware that there are sisonment. Received 20 Diffice of Oil & (

10301958 P Operator's Well No. FL Hoge 12

Property Boundary Rond = = = = = = = = = = = = = = = = = = =	Diversion Spring Wet Spot Drain Pipe with size in inches Waterway Cross Drain Artificial Filter Strip Pit: cut walls Pit: compacted fill walls Area for Land Application of Pit Waste
Proposed Revegetation Treatment: Acres Disturbed Lime 3 Tons/acre or to correct to the fertilizer (10-20-20 or equivalent) 500	to pH
Seed Type Tall Fescue Ladino Clover 5	Seed Mixtures Area II Seed Type Tall Fescue Ladino Clover 5
**Sediment control should be in place Attach: Drawing(s) of road, location,pit and proposed area for I Photocopied section of involved 7.5' topographic sheet.	land application.
Plan Approved by: Comments:	Received Office of Oil & Gas
Title: Di + Gas Trape cher Field Reviewed? Yes	Date:



West Virginia Department of Environmental Protection Office of Oil & Gas

WELL LOCATION FORM: GPS

API:	47- 103	- 1958		WELL NO:	12
FARM NAME	: F.L. 1	Hoge No.12			
RESPONSIBL	E PARTY NAME:	H.G. Ener	rgy, LLC		
COUNTY:	Wetz	el		DISTRICT:	Green
QUADRANGI	Æ;	Centerpoint 7.5'			
SURFACE OV	VNER:	W.Va. Dept. of Nati	ural Resou	rces	
ROYALTY O	WNER:	American Energy P	artners, L	LC et al.	
UTM GPS NO	RTHING:	4,369,690	(NAD 83)		
UTM GPS EA	STING:	527,079	(NAD 83)	GPS ELEVATION:	312 m.(1023')
preparing a ne	w well location pla I not accept GPS c Datum: NAD 198		t on the ab meet the fo oordinate U	ove well. The Office ollowing requirements	s:
Sur	vey Grade GPS	Post Processed Different Real-Time Different		=	
Maj	oping Grade GPS	X Post Processed Diff Real-Time Differen		X	
belief and show		this data is correct to the confidence of the co		ations issued and	
Diane	White	Diane C. White		Designated A	Received
Signature				Title	Received Office of Oil & Gas JUL 1 3 2015
Date	June 3, 2015		- 0		- 2013
Date					