

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

July 22, 2015

WELL WORK PLUGGING PERMIT

Plugging

This permit, API Well Number: 47-9501149, 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 17

Farm Name: WALTERS & DAWSON

API Well Number: 47-9501149 Permit Type: Plugging

Date Issued: 07/22/2015

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	June 5		, 2015
2) Opera	tor's		1
Well	No. Jaspe	er Lemasters	s 17
3) API V	Well No.	47-005	- 1149

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

		RMIT TO PLUG AND ABANDON
4)	Well Type: Oil/ Gas/ Liqui	id injection X / Waste disposal/
	(If "Gas, Production or Ur	nderground storage) Deep/ Shallow_X_
E4	Location: Elevation 982'	Watershed Left Hand Fork
5)	District McElroy	County Tyler Quadrangle Centerpoint 7.5'
6)	Well Operator HG Energy, LLC	7) Designated Agent Diane White Address 5260 Dupont Road
	Address 5260 Dupont Road	Parkersburg, WV 26101
	Parkersburg, WV 26101	- Farkersburg, WV 20101
8)	Oil and Gas Inspector to be notified Name Mike Goff	9) Plugging Contractor Name To be Determined Upon Approval of Permit
	Address P. O. Box 134	Address
	Pullman, WV 26421	
	"See Attache	
		barr
		Receive & Gas
Not	tification must be given to the district k can commence.	oil and gas inspector extinours befold permitte
Wo	rk order approved by inspector Mucha	1 Hoff Date 10/8/2015
		07/24/2015

WW-4B Rev. 2/01

1)	Date: J	une 5, 2015	5	
2)	Operator's Well	Number		
	Jasper I	emasters 1	7	
3)	API Well No:	47 -	095	1149
		Ctata	County	Permit

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

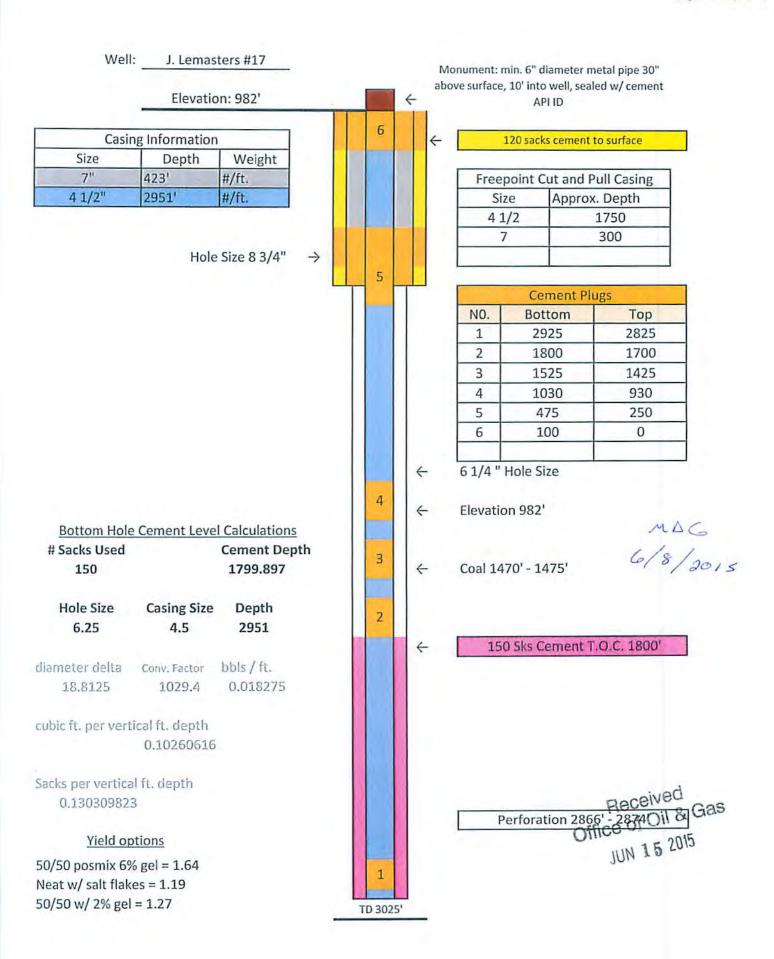
APPLICATION FOR A PERMIT TO PLUG AND ABANDON

4)	WELL TYPE:	Oil	acuc -!!	Gas	Liquid Inject		Waste Dispo		allow x	
5)	LOCATION:	Elev	(If "Gas",	Production 982'	Watershed:	Left Hand F	ork			
-)	2001111	Dist		McElroy	County:	Tyler	Qı	uadrangle	Centerpoint 7.5	'
6)	WELL OPERA	TOR:	HG Ener	gy, LLC	4.94E+08	7) DESIGNAT	ED AGENT_	Diane V	Vhite	
0)	Address			pont Road			Address		upont Road	
		-		urg, WV 26101				Parkers	burg, WV 26101	
.01	OH P. CAS IN	DEC				9) PLUGGING	CONTRACT	OR		
8)	OIL & GAS INS		e Goff	DE NOTIFIED		Name			Approval of Permi	t
	Name	_	D. Box 134			Address				
	Address		man, WV		_					
	- 3,025'		ic wom o	der for the manner of						
Plu	nners of plugging #1 2925' - 28	25' '	2800					MA	12015	
If u	nable to pull all	4 1/.	2" casing	- free point, part a	and pull (approx	1750')		, 1.	,	
Plu	g #2 -at casing o	cut ap	prox 180	00' - 1700'	and a bank able to	s he removed		6/8	12015	
Plu	g #3 -through c	oal -	1525' - 14	125' (preforate if o	asing isn't able t	to be removed	1	4		
Plu	g #4 - Elevation	plug	- 1030' -	930' (preforate if	null (approx 300	יין	,			
It u	nable to pull all	/ Ca	they con	e point, part and	75' - 250'	. 1				
				ıl, at casing cut - 4	73 - 230					
Plu	g #6 - Surface p	lug -	100 - 0							

6% Gel between all plugs

Monument min. 6" metal pipe, 30" above surface, 10' in well below surface, sealed w/cement & API ID

Office of Oil & Gas



API # 47- 95-01149 s

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

Well Operator's Report of Well Work

Farm name:	WALTERS, J/	R.S. & L.D.	AWSON	Operator	Well No.:	J. LEMAST	ERS 17
LOCATION:	Elevation:						
	Latitude:	1445U Fee	t Sou	th of 39	ounty: TYLE Deg. 30Min Deg. 40 Mi	0 500	•
Company: PEN	NZOIL PRODU	CTS COMPAN	y .				
P.	O. BOX 5519 NNA, WV 26		-	&	Used in	İ	Cement Fill Up
Agent: JAM	ES A. CREWS				Drilling	in Well	Cu. Ft.
Permit Issu Well work C	MIKE UNDERWOOD ed: ommenced: ompleted:	03/20/92		Size		 	
Verbal Plug	ging -	4-10-92		SEE	ORIGINAL WELI	RECORD	
Rotary Total Depth Fresh water	Cable (feet)	Rig					{
Fresh water	depths (ft)	3023	_				
Salt water	depths (ft)		_				
Is coal being Coal Depths	ng mined in (ft):	area (Y/N)	?		·		i
OPEN FLOW DA		(Inject			·		-
Product Gas: In Fi	ing formation nitial open inal open fl ime of open rock Pressu	n Gor flowow	don MCF/ MCF/	d Oil: In	Pay zone ditial open nal open fl	lepth (ft)	2863 - 28 Bbl/c
Static	me of open rock Pressu	flow betwe	en in _psig	itial and (surface	final test pressure)	s after	Hours
Second	producing faitial open	ormation			Pav zone d	enth (ft)	
Fi	nal open fl	OW			rciar open	I TOM	Bbl/d Bbl/d
Static	me of open rock Pressu	ILOW DETWE	AD 170	itis]			Hours Hours
NOTE: ON BAC INTERVALS, F LOG WHICH I INCLUDING CO	S A SYSTEM	ATIC DETAIL	LED (PHISICA ABLOATOR			
		_		- Jun .	II R.	L	
		For: PEN		PROPUCTS			
		By:	Su e: 3-	mothy P. Ropervisor -	ush Surveying/Map	ping	
		Pati	5 7 <u> </u>	1-03			

Date: 3-1-93

riscisived Office of Oil & Gas JUN 15 2015

07/24/2015

DETAILS OF PERCORATIO INTERVALS, FRACTURING OR STIMULATING, PRYSICAL CHANCE, ITC.

Well has not been fractured or stimulated.

FORFETION COLOR BARD OR SOFT	TOP FEET	BOTTOM FEET	PEMARKS Including indication of all for
Ampar No. 1 a. 1	****		and salt water, coal, oil and
and all controls to the proper property and the first of the party of the control			
Sand & Shale	0	315	trans is a man the same and the
Sand & Shale	315	325	
Salt Sand	325 1425	1425 1470 ···	
- Goal	1470 -	1475	
Shale Little Lime	1470 - 1475 - 1784 -	1784 1852 -	
(印) Big Lime 1013 .	1852	2024	
(1042) Big Injun-Loyalhanna 84) (1124) Pocono Shale ->59	. 2024 . 2106 -	2106 2290	•••
Shale	2290	2840	
(1856) Gordon Series Shale	2840 2902	2902	
T.D.	3025	3025	
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Pennzoil Products Company 15 2015

Well Operation

Timothy P. Roush

Date: September 29, 1989 07/24/2015

WW-4A Revised 6-07

1) Date: June 5, 2015	5		
 Operator's Well Numb Jasper Lemasters 17 	er		
3) API Well No.: 47 -	095	1149	

STATE OF WEST VIRGINIA

DI	EPARTMENT OF ENVIR	CONMENT.	AL PROTECT TO PLUG AN	TION, OFFICE OF OIL AND GAS ND ABANDON A WELL	
	ner(s) to be served:	5) (a)) Coal Operator		
(a) Name	Jerry Walters	1	Name	NA	_
Address	17 Stackpole Run Road		Address		_
	Jacksonburg, WV 26377		- 0.0.10	(A 2d D Lasting	-
(b) Name	-		The state of the s	vner(s) with Declaration	
Address			Name	NA	_
			Address		
(c) Name			Name		
Address	-		Address		
Address	-				
6) Inspector	Mike Goff		(c) Coal Le	ssee with Declaration	
Address	P. O. Box 134		Name	NA	
402223000	Pullman, WV 26421		Address		
Telephone	304-549-9823				
a displaying	-				
Take notic accompan Protection the Appli	lying documents for a permit to plug a	st Virginia Code and abandon a wo on described on d by registered of	the attached Applicator certified mail or d	Il operator proposes to file or has filed this Notice and Application the Office of Oil and Gas, West Virginia Department of Environm tion and depicted on the attached Form WW-6. Copies of this Note letivered by hand to the person(s) named above (or by publication)	otice,
	337, 11	10	UC Fastav II C		
***********	Chippenson and a second	Operator	HG Energy, LLC Diane White	Diane White	
NI STATE	OFFICIAL SEAL By:		Endito Comp	DON NIGO	
30 2 2	NOTARY PUBLIC Its:		Agent		
日数医验	S. DIANNE DULANEY Add	ress	5260 Dupont Road		
	5260 Dupont Road Parkersburg, West Virginia 2610 Pel		Parkersburg, WV 2 304-420-1119	20101	
Sie Hant Link	My Commission Expires Oct. 4, 2016	phone	304-420-1119		
	***************************************			Notary Public Office of Oil & Gas	
Subscribed an	d sworn before me this _5th	da da	y of June	Recent & Gae	
Luncoi inou un	2 Diame of	War	5	Notary Public	
My Commissio	on Expires Oct	4,201	,	Office 15 2013	
				JUN 2	
Oil and Gas Pri	vacy 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.

07/24/2015 information, please contact DEP's Chief Privacy Officer at depprivacyoffier@wv.gov.

WW-9 Rev. 5/08

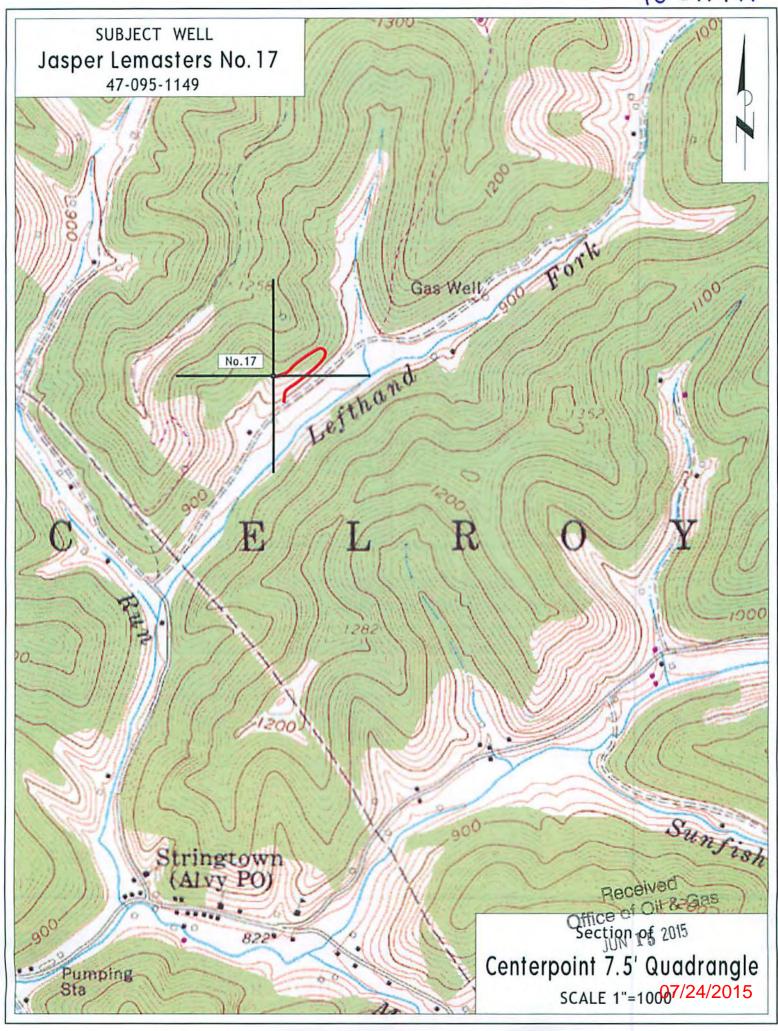
Page	of
API Number 47 - 095	_ 1149
Operator's Well No. Jaspe	r Lemasters 17

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

CONSTRUCTION AND RECLAMATION PLAN A GENERAL PERMIT FOR OIL AND			OR OIL AND GA	S PIT WASTE DISCH	IARGE	VI ORW
	Name HG En			OP Code		
Vatershed	Left Hand F	ork	Quad	Irangle Centerpoint	t 7.5'	
Elevation	982'	County	Tyler	District_	McElroy	
Description	on of anticipated I	Pit Waste: Fluids en	countered v	vhile plugging s	ubject wel	l
Vill a synt	thetic liner be us	ed in the pit? Yes - 20 m	il			MAG
Proposed 1	<u>x</u>	For Treated Pit Wastes: Land Application Underground Injection (U Reuse (at API Number Off Site Dispposal (Suppl Other (Explain	y form WW-9 for	disposal location)		MAG 6/8/2015
Proposed '		n Pit Will Be Used: Drilling Workover Other (Explain	X	Swabbing Plugging		
on Augus provisions law or reg I applicatio	at 1, 2005, by the s of the permit a gulation can lead I certify under p on form and all the information for submitting fa	derstand and agree to the to Office of Oil and Gas of the reenforceable by law. Voto enforcement action. It have attachments thereto and the period of the the information, including	personally exami that, based on m atton is true, act the possibility of	rm or condition of the ned and am familiar v ny inquiry of those in- curate, and complete.	general permit with the informatividuals imme	and/or other applica ation submitted on diately responsible
Company	Official Signatu					
Company	Official (Typed		te			
Company	Official Title	Agent				
Subscribe	ed and sworn bef	/	_ _{day of} _ Jun	e	20 15 Rece	eived Oil & Gas
	$\Delta \mathcal{L}$	ianne Dul	any	No	The state of the s	OFFICIAL SEAL NOTARY PUBLIC ATE OF WEST VIRGIN

Operator's Well No. ______Jasper Lemasters17

	LEGEND
Property Boundary	Diversion Leader 111111111111111111111111111111111111
Road = = = = = = = = = = = = = = = = = = =	Spring
Existing Fence — X — X — X —	Wet Spot
Planned Fence/_/_//	Drain Pipe with size in inches @
Stream	Waterway C+ C+ C+ C+
Open Ditch	
Rock 885886	Artificial Filter Strip XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
North N	Pit: cut walls
Buildings	Pit: compacted fill walls
Water wells	Area for Land Application of Pit Waste
Drill site	
I.B. A. J. J. Trueston aut. Apres Dieturbad	0.9 Prevegetation pH
roposed Revegetation Treatment: Acres Disturbed Lime 3 Tons/acre or to correct	6.5
	et to pri
Fertilizer (10-20-20 or equivalent) 500	lbs/acre (500 lbs minimum)
Straw 2	Tons/acre
Mulch_Straw 2	_Tons/acre
Mulch Straw 2	_Tons/acre Seed Mixtures
Mulch Straw 2	Seed Mixtures Area II
Mulch	Seed Mixtures Area II Seed Type Ibs/acre
Area I Seed Type lbs/acre	Seed Mixtures Area II
Area I Seed Type Ibs/acre Tall Fescue 40	Seed Mixtures Area II Seed Type Ibs/acre
Area I Seed Type Ibs/acre Tall Fescue 40 Ladino Clover 5 Attach: Drawing(s) of road, location,pit and proposed area for la	Seed Mixtures Area II Seed Type Tall Fescue Ladino Clover In the seed Type Area II Seed Type John Seed Type Area II Seed Type John
Area I Seed Type Ibs/acre Fall Fescue 40 Ladino Clover 5 Attach: Drawing(s) of road, location,pit and proposed area for la	Seed Mixtures Area II Seed Type Tall Fescue Ladino Clover Jand application.
Area I Seed Type Ibs/acre Fall Fescue 40 Ladino Clover 5 Attach: Drawing(s) of road, location,pit and proposed area for la	Seed Mixtures Area II Seed Type Tall Fescue Ladino Clover Jand application.
Area I Seed Type Ibs/acre Fall Fescue 40 Ladino Clover 5 Attach: Drawing(s) of road, location, pit and proposed area for la	Seed Mixtures Area II Seed Type Tall Fescue Ladino Clover 5 Jand application.



West Virginia Department of Environmental Protection Office of Oil & Gas

WELL LOCATION FORM: GPS

API:	47- 095 - 1149	WELL NO:	17
FARM NAME:	Jasper Lemasters No.1	17	
RESPONSIBLE PARTY	NAME: H.G	G. Energy, LLC	
COUNTY:	Tyler	DISTRICT:	McElroy
QUADRANGLE:	Centerpoint 7	7.5'	
SURFACE OWNER:	Jerry Walters	S	
ROYALTY OWNER:	American En	ergy Partners, LLC et al.	
UTM GPS NORTHING:	4,367,899	5 (NAD 83)	
UTM GPS EASTING:	526,358	(NAD 83) GPS ELEVATION:	299 m. (981')
preparing a new well loc Oil & Gas will not accept 1. Datum: Inheight ab 2. Accuracy	cation plat for a plugging of GPS coordinates that de	o submit GPS coordinates in lieu of permit on the above well. The Office of the not meet the following requirements: th, Coordinate Units: meters, Altitude (a) - meters.	
Survey Grade	GPS — Post Processe Real-Time Di	and the state of t	
Mapping Grad	de GPS X Post Processe Real-Time Di		
and the second of the second o	information required by l	ct to the best of my knowledge and aw and the regulations issued and Designated Age Title	eived cas
Diane White	Diane C. White	Designated Age	in Ril & Gae
Signature	2.2.2	Title Office	15 2015
Date	3, 2015		