

west virginia department of environmental protection

Office of Oil and Gas 601 57th Street, S.E. Charleston, WV 25304 (304) 926-0450 fax: (304) 926-0452

Austin Caperton, Cabinet Secretary www.dep.wv.gov

Tuesday, August 21, 2018 WELL WORK PLUGGING PERMIT Vertical Plugging

HG ENERGY, LLC 5260 DUPONT ROAD

PARKERSBURG, WV 26101

Re: Permit approval for W M GOODE 2 47-043-02238-00-00

This well work permit 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 any additional specific 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. Please be advised that form WR-38, Affidavit of Plugging and Filling Well, is to be submitted to this office within 90 days of 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.

Per 35 CSR 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) 926-0450.

James A. Martin Chief

Mant.

Operator's Well Number: W M GOODE 2 Farm Name: GOODE, W. M. U.S. WELL NUMBER: 47-043-02238-00-00 Vertical Plugging Date Issued: 8/21/2018

Promoting a healthy environment.



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.

WW-4 Rev.	B 2/01	1) Date July 9 , 20 18 2) Operator's Well No. WM Goode 2 3) API Well No. <u>47-043</u> - 02235
	DEPARTMENT OF ENVIR	EST VIRGINIA RONMENTAL PROTECTION OIL AND GAS
	APPLICATION FOR A PERM	AIT TO PLUG AND ABANDON
4)	Well Type: Oil <u>X</u> / Gas <u>X</u> / Liquid (If "Gas, Production <u>X</u> or Und	i injection/ Waste disposal/ derground storage) Deep/ Shallow_X
5)	Location: Elevation 1072'	Watershed Trace Fork
-,	District Duval	County Lincoln Quadrangle Garrett's Bend 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
8)	Oil and Gas Inspector to be notified Name Jeffery Smith Address 5369 Big Tyler Road Cross Lanes, WV 25313	9) Plugging Contractor Name To Be Determined Upon Approval of Permit Address

10) Work Order: The work order for the manner of plugging this well is as follows:

** See Attached **

RECEIVED Office of Oil and Gas

43-02238P

JUL **23** 2018

WV Department of Environmental Protection

Notification must be given to the district oil and gas inspector 24 hours before permitted work can commence.

Work order approved by inspector Jeffrey Smith Date 7-17-18

08/24/2018

	43-02238P
Form WW-4(B)	I) Date: July 9, 2018
Rev. 2/01	2) Operator's Well Number WM Goode # 2
	3) API Well No: 47 - 043 - 2238
	State County Permit
	STATE OF WEST VIRGINIA DIVISION OF ENVIRONMENTAL PROTECTION OFFICE OF OIL AND GAS
	APPLICATION FOR A PERMIT TO PLUG AND ABANDON
4) WELL TYPE:	A Oil X Gas X Liquid Injection Waste Disposal B (If "Gas", Production Underground Storage Deep Shallow X)
5) LOCATION:	Elevation: 1072' Watershed: Trace Fork
	District: Duval County: Lincoln Quadrangle: Garrett's Bend 7,5"
6) WELL OPERATOR:	HG Energy LLC 308122 7) DESIGNATED AGENT Diane White
Address	5260 Dupont Road Address 5260 Dupont Road Parkersburg, WV 26101 Parkersburg, WV 26101
 OIL & GAS INSPECTOR TO Name 	D BE NOTIFIED 9) PLUGGING CONTRACTOR Jeffery L. Smith Name To Be Determined Upon Approval of Permit
Address	5369 Big Tyler Road Address
	Cross Lanes, WV 25313
TD - 2,580' <u>Manners of Plugging:</u> Plug #1 - 2550' - 2450' Free-point, cut, and pull 5 3/16" casi Plug #2 - Approx 2030' - 1800' Freepoint, cut and pull 1100' - 1000' Plug #3 - 1100' -1000' Plug #4 - 400' - 300' Plug #5 - 100' - 0	or RECEIVED Office of Oil and Gas
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WR-35

API #

05/27/2008 # 47 043 02238 P

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



Well Operator's Report of Well Work

Farm name:	GOODE, WM	É	Operator Well	No.: WMC	GOODE 2	
LOCATION:	Elevation:	1,072.00	Quadrangle:	GARRETTS	S BEND 7.5'	
	District: Latitude: Longitude:	DUVAL 11,675 Feet south of 9,000 Feet west of	County: LIN 38 Deg 17 81 Deg 55	Min 30 3	Sec. Sec.	
Company:	EAST RESOU P.O. BOX 551 VIENNA, WV	9	Casing/ tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
Agent:	PHILIP S. ON	DRUSEK				
Inspector: Permit Issued: Well work Con Well work Con Verbal plugging permission gran	npleted: g	05/02/08 NA NA	6 5/01	1805	1905	
Rotary Total Depth (fe		Rig ,580	6 5/8"	1895'	1895'	EXISTING
Fresh water der			5 3/16"	1977 '	1977 '	EXISTING
Salt water dept	ns (ft)	NA	5 5/10	1977	1977	LABIING
Gas:	DATA ing formation Initial open flo Final open flow	vM flow between initial an		l open flow	pth (ft) Hours	Bbl/d Bbl/d Hours
Gas:	l producing form Initial open flo Final open flov Time of open ock pressure	w M v M flow between initial an	CF/d Oil: Initia CF/d Fina	l open flow	oth (ft) Hours	Bbl/d Bbl/d Hours
OR STIMULATIN	G, PHYSICAL CH	PUT THE FOLLOWING: 1) D ANGE, ETC. 2) THE WELL I ORMATIONS, INCLUDING C	LOG WHICH IS A	SYSTEMATIC	DETAILED	CTURING
	RECEIVED Office of Oil and Gas		ESOURCES, INC		11 .	
	JUL 2 3 2018	By: Date:		Bull	Slow	
E	WV Department of nvironmental Protect				1/10	08/24/2018



NO PERMITTED WELL WORK WAS PERFORMED ON THIS WELL.

Well Log :

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SEE ORIGINAL WELL RECORD

HHOTVEL) Milet 1794 Bell Gene

13日) 13日前日 - 13日



:

WW-4A Revised 6-07 Date: July 9, 2018
 Operator's Well Number
 WM Goode 2

-3-02238P

3) API Well No.: 47 - 043 - 02238

STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS NOTICE 0F APPLICATION TO PLUG AND ABANDON A WELL

4) Surface Ov	vner(s) to be served: /	5) (a) Coal Operator		
(a) Name	Harold Hoffman II	Name	NA	
Address	PO Box 203	Address		
	Griffithsville, WV 25521			
(b) Name		(b) Coal Own	ner(s) with Declaration	
Address		Name	NA	_
		Address		
(c) Name		Name		
Address		Address		
6) Inspector	Jeffery L. Smith	(c) Coal Less	see with Declaration	-
Address	5369 Big Tyler Road	Name	NA	
	Cross Lanes, WV 25313	Address		
Telephone	681-313-6743			

TO THE PERSONS NAMED ABOVE: You should have received this Form and the following documents:

- (1) The application to Plug and Abandon a Well on Form WW-4B, which sets out the parties involved in the work and describes the well its and the plugging work order; and
- (2) The plat (surveyor's map) showing the well location on Form WW-6.

The reason you received these documents is that you have rights regarding the application which are summarized in the instructions on the reverses side. 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 permit to plug and abandon a well with the Chief of the Office of Oil and Gas, West Virginia Department of Environmental Protection, with respect to the well at the location described on the attached Application and depicted on the attached Form WW-6. Copies of this Notice, the Application, and the plat 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 mailing or delivery to the Chief.

Well Operator	HG Energy, LLC	
By:	Diane White Piane White	DEOENER
OFFICIAL SEAL Its:	Agent	RECEIVED Office of Oil and Gas
HGEnergyLLC Address	5260 Dupont Road	
PO Box 5519, Vierna, WV 28105 My Commission Expires November 2, 2021	Parkersburg, WV 26101	JUL 23 2018
Telephone	304-420-1119	
		WV Department of Environmental Protection
Subscribed and sworp before me this _9th da	1y of JULY , 2018	
Chi sec	Notary Public	
My Commission Expires 4/2/2021		

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 <u>depprivacyoffier@wv.gov</u>.

43-02238P

W	W-9
(5/	16)

WW-9	012 02228
(5/16)	A PI Number $47 - \frac{043}{2} - \frac{02238}{2}$
	Operator's Well No
DEPARTMENT OF E OFFICE	OF WEST VIRGINIA INVIRONMENTAL PROTECTION E OF OIL AND GAS DISPOSAL & RECLAMATION PLAN
Operator Name HG Energy, LLC	OP Code 494497948
Watershed (HUC 10) Trace Fork	Quadrangle Garrett's Bend 7.5'
Do you anticipate using more than 5,000 bbls of water to co Will a pit be used? Yes No	omplete the proposed well work? Yes No
If so, please describe anticipated pit waste: NA	
Will a synthetic liner be used in the pit? Yes 📃	No 🖌 If so, what ml.?
Proposed Disposal Method For Treated Pit Wastes	S: RECEIVED Office of Oil and Ga
Land Application (if selected pro	ovide a completed form WW-9-GPP)
	smit NumberJUL 2)3 2018
Reuse (at API Number Off Site Disposal (Supply form)	W/W/ 9 for disposal legation) WV Department of WV Department
	WW-9 for disposal location) WV Departmental Prote
Will closed loop systembe used? If so, describe: No	
Drilling medium anticipated for this well (vertical and horiz	zontal)? Air, freshwater, oil based, etc. NA
-If oil based, what type? Synthetic, petroleum, etc.	
Additives to be used in drilling medium? NA	
Drill cuttings disposal method? Leave in pit, landfill, remov	ved offsite, etc. NA
-If left in pit and plan to solidify what medium will	be used? (cement, lime, sawdust) NA
-Landfill or offsite name/permit number? NA	
	nd Gas of any load of drill cuttings or associated waste rejected at any ided within 24 hours of rejection and the permittee shall also disclose

I certify that I understand and agree to the terms and conditions of the GENERAL WATER POLLUTION PERMIT issued on April 1, 2016, 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 that there are significant penalties for submitting false information, including the possibility of fine or imprisonment.

Company Official Signature Diane White		
Company Official (Typed Name) Diane White		
Company Official Title Agent		OFRICIAL SEAL NOTARY PUBLIC STATE OF WEST VIRGINIA MARK J SCHALL
Subscribed and sworn before me this 9th day of JULY	, 20_ 18	PG Box 5519, Vienna, WV 20105 My Commission Expires November 2, 2021
$\frac{CGAM}{My \text{ commission expires} (1/2/2021)}$	Notary Public	M COMMERCIAL STATE OF COMM

43-02238P

Form WW-9			Opera	tor's Well No	
Proposed Revegetation Trea	tment: Acres Disturb	ed 0.9	Preveg et	ation pH	
Lime 3	Tons/acre or to	correct to pH 6.5	5		
Fertilizer type 10-2	20-20	Ð			
Fertilizer amount		500 lbs/ac	re		
Mulch_Straw		2 Tons/acre			RECEIVED Office of Oil and Gas
		<u>Seed Mi</u> :	<u> Ktures</u>		JUL 2 3 2018
Te	mporar y			Permanent	WV Department of Environmental Protection
Seed Type	Ibs/acre		Seed Type	Ibs	/acre
Tall Fescue	40		Tall Fescue	4	0
Ladino Clover	5		Ladino Clover	ļ	5
** Sediment Contro	I Will Be In Pla	ce At All Tim	es **		

Attach:

Maps(s) of road, location, pit and proposed area for land application (unless engineered plans including this info have been provided). If water from the pit will be land applied, provide water volume, include dimensions (L, W, D) of the pit, and dimensions (L, W), and area in acres, of the land application area.

Photocopied section of involved 7.5' topographic sheet.

Plan Approved by:_	Jeffrey S	Smith					
Comments:	Jellney St. sediment	contro 1	to	be	removed	Prior	to
release			<u></u>		<u></u>		
			_		. <u></u>		
				_			
					<u> </u>	<u>, , , , , , , , , , , , , , , , , , , </u>	
	Cos Trop	10		Data	7-17-18	2	
	Ges Inspe		-	Date:	(/ / / / / / / / / / / / / / / / / / /		

43-02238P

WW-9- GPP Rev. 5/16 Page _____ of _____ API Number 47 - 043 - 02238 Operator's Well No. _____ M Goode 2

Quad: Garrett's Bend 7.5'

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

Operator Name: HG Energy, LLC

Watershed (HUC 10): Trace Fork

Farm Name:

1. List the procedures used for the treatment and discharge of fluids. Include a list of all operations that could contaminate the groundwater.

NA

2. Describe procedures and equipment used to protect groundwater quality from the list of potential contaminant sources above.

NA	RECEIVED Office of Oil and Gas
	JUL 23 2018
	WV Department of Environmental Protection

 List the closest water body, distance to closest water body, and distance from closest Well Head Protection Area to the discharge area.

4. Summarize all activities at your facility that are already regulated for groundwater protection.

NA

NA

5. Discuss any existing groundwater quality data for your facility or an adjacent property.

3-02238P

WW	-9- GPP
Rev.	5/16

	Page	2 of 2
API Number 47	- 043	- 02238
Operator's Well	No.	

NA

NA

NA

6. Provide a statement that no waste material will be used for deicing or fill material on the property.

Describe the groundwater protection instruction and training to be provided to the employees. Job procedures shall provide direction on how to prevent groundwater contamination.

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JUL 2 3 2018

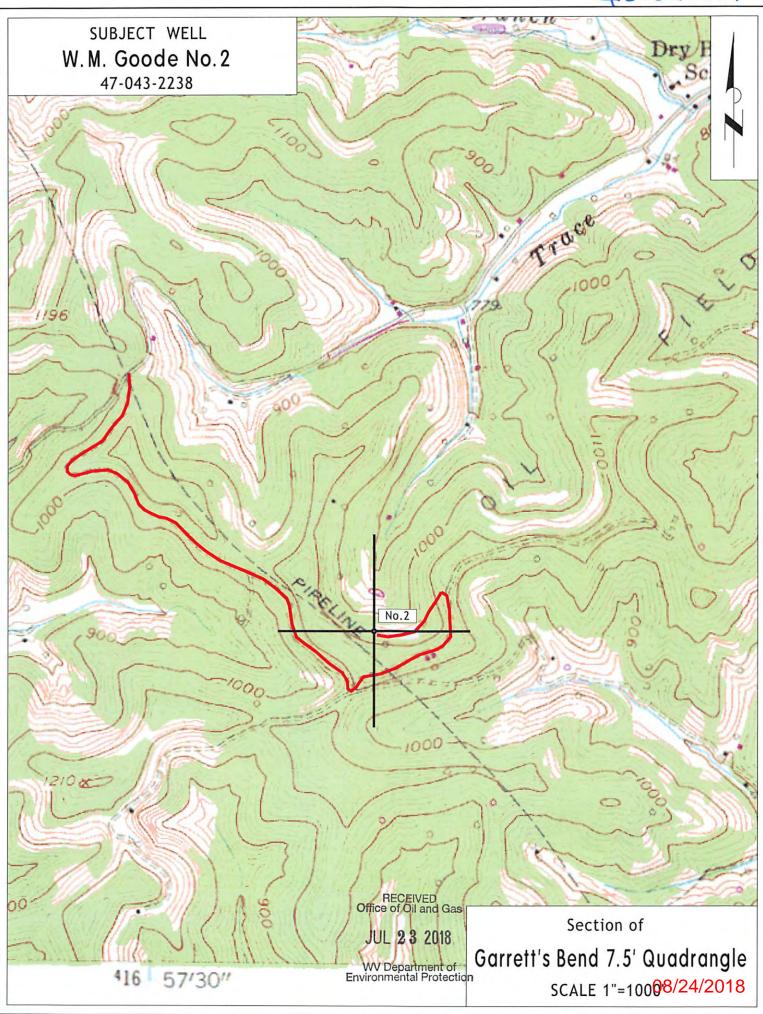
WV Department of Environmental Protection

8. Provide provisions and frequency for inspections of all GPP elements and equipment.

NA			
Signature: _	Diane White		

Date: 7-9-18

43-02238P



WW-7 8-30-06



West Virginia Department of Environmental Protection Office of Oil & Gas

WELL LOCATION FORM: GPS

API:	47- 043 -	2238		WELL NO:	2	
ARM NAME:	W.M. 0	Goode No.2				
RESPONSIBLE PARTY	' NAME:	H.G. Er	nergy, LLC			
COUNTY:	Lincoln			DISTRICT:	Duval	_
UADRANGLE:		Garrett's Bend 7.5	5'	·		
URFACE OWNER:		Harold Hoffman l	п			
ROYALTY OWNER:		HG Energy, LLC				
JTM GPS NORTHING	·	4,235,058	(NAD 83)			
JTM GPS EASTING: The Responsible Party r preparing a new well lo			omit GPS coor		<u> </u>	(107
The Responsible Party 1	cation plat f of Oil & Ga	e has chosen to sub for a plugging perm	omit GPS coor nit or assigned	dinates in lieu of API number on the	<u>329 m.</u>	г <u>о1)</u>
The Responsible Party reparing a new well loo bove well. The Office the following requirement 1. Datum:	cation plat f of Oil & Ga nts: NAD 1983,	e has chosen to sub for a plugging perm is will not accept G Zone:17 North, C	omit GPS coor nit or assigned PS coordinate Coordinate Un	dinates in lieu of API number on the	<u>329 m.</u>	<u>(1</u> 07
The Responsible Party reparing a new well loo bove well. The Office the following requirement 1. Datum: height a	cation plat f of Oil & Ga nts: NAD 1983, bove mean	e has chosen to sub for a plugging perm is will not accept G Zone:17 North, C sea level (MSL) - r	omit GPS coor nit or assigned PS coordinate Coordinate Un	dinates in lieu of API number on the that do not meet	<u> </u>	<u>(1</u> 07
The Responsible Party r preparing a new well loo bove well. The Office he following requireme 1. Datum: height a 2. Accurac	cation plat f of Oil & Ga nts: NAD 1983, bove mean	e has chosen to sub for a plugging perm is will not accept G Zone:17 North, C sea level (MSL) - r - 3.05 meters	omit GPS coor nit or assigned PS coordinate Coordinate Un	dinates in lieu of API number on the that do not meet	<u>329 m.</u>	<u>(10</u> 7
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The Responsible Party r preparing a new well low bove well. The Office he following requireme 1. Datum: height a 2. Accurac 3. Data Co Survey Grade	cation plat f of Oil & Ga nts: NAD 1983, bove mean y to Datum llection Me e GPS	e has chosen to sub for a plugging perm is will not accept G Zone:17 North, C sea level (MSL) - r - 3.05 meters thod: Post Processed D	omit GPS coor nit or assigned PS coordinate Coordinate Un neters. ifferential rential	dinates in lieu of API number on the that do not meet	<u>329 m.</u>	<u>(10</u> 7

prescribed by the Office of Oil and Gas.

Diane C White	Designated Agent	6/11/2018
Diane C. White	Title	Date
	c	RECEIVED Office of Oil and Gas

JUL 2 3 2018

08/24/2018

WV Department of Environmental Protection