

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: Farm Name: U.S. WELL NUMBER: Vertical 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> - 02238
	DEPARTMENT OF ENVI	EST VIRGINIA RONMENTAL PROTECTION OIL AND GAS
	APPLICATION FOR A PERM	MIT TO PLUG AND ABANDON
4)	Well Type: Oil <u>×</u> / Gas <u>×</u> / Liquid (If "Gas, Production <u>×</u> or Und	d injection/ Waste disposal/ derground storage) Deep/ Shallow_X
5)	Location: Elevation 1072' District Duval	Watershed Trace Fork 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

Form WW-4(B) Rev. 2/01										-02238
Rev. 2/01					- 1)	Date:J	uly 9, 2018	-		
					2)	Operator's Well				
					3)	WM Goode # : API Well No:	47 -	043 -	2238	
					5)	All Well No.	State	County	Permit	

			ATE OF WE							
		DIVISION OF H	FICE OF OIL			TION				
	A	PPLICATION FOR				ABANDON				
	7.									
4) WELL TYPE:		Oil <u>X</u> Ga		Liquid In			Disposal _			
	В	(If "Gas", Productio	n	Undergro	ound Stora	age De	epS	Shallow	<u>X_)</u> .	
5) LOCATION:	F	levation: 1072'		Wat	ershed:	Trace Fork				• • • •
5) LOCATION.		istrict: Duval		Cou		Lincoln		e: Garrett's	Bend 7.5"	
6) WELL OPERA		HG Energy LLC		308122	7) DES	SIGNATED AGE		White	.	
Address		5260 Dupont Roa Parkersburg, WV				Addre		Dupont Roa rsburg, WV		
		Parkersburg, wv	20101				Farke	isotig, w v	20101	
8) OIL & GAS IN	VSPECTOR TO BE NOTIFIED				9) PLL	JGGING CONTF	RACTOR			
Name		L. Smith				ne To Be Dete	rmined Upon .	Approval of	Permit	
Address		g Tyler Road			Add	Iress				
	Cross L	anes, WV 25313								
	oull 1100' - 1000' 00'			6	55)					RECEIVED ce of Oil and
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WR-35

API	#
ALL	TT

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



Well Operator's Report of Well Work

Farm name:	GOODE, WM		Ope	rator Well	No.: WM	GOODE 2	
LOCATION:	Elevation:	1,072.00	Qua	drangle:	GARRETT	'S BEND 7.5'	
	District: Latitude: Longitude:	DUVAL 11,675 Feet south 9,000 Feet west o	of 38	nty: LIN Deg 17 Deg 55	Min 30	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:	RALPH TRIPI						
Permit Issued: Well work Com Well work Com Verbal plugging	pleted:	05/02/08 NA NA					
permission gran Rotary Total Depth (fee Fresh water dep	Cable et)2,	Rig 580		6 5/8"	1895'	1895'	EXISTING
Salt water depth		NA		5 3/16"	1977 '	1977 '	EXISTING
Is coal being mi Coal Depths (ft)		J) <u>NA</u>					
OPEN FLOW D	DATA						
Produc	ing formation				Pay zone de	epth (ft)	
Gas:	Initial open flov Final open flov		MCF/d MCF/d		al open flow l open flow		Bbl/d Bbl/d
	Time of open	flow between initial		al tests		Hours	
Static re	ock pressure		psig (si	irface pres	ssure)	after	Hours
	producing form		1000/1		Pay zone de		
Gas:	Initial open flow Final open flow		MCF/d MCF/d		al open flow l open flow		Bbl/d Bbl/d
G	Time of open	flow between initial	and fina	l tests	•	Hours	
	ock pressure			rface pres		after	Hours
NOTE: ON BACK OF THIS FORM, PUT THE FOLLOWING: 1) DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2) THE WELL LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE.							
(RECEIVED Office of Oil and Gas	For: EAST	RESOU	RCES. INC	C	11 11	
	JUL 23 2018	By: Date:			Buil	plh-	
En	WV Department of wironmental Protecti						, ,



NO PERMITTED WELL WORK WAS PERFORMED ON THIS WELL.

Well Log :

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SEE ORIGINAL WELL RECORD

CENTOPH AND LARGE COMPL

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WW-4A Revised 6-07 1) Date: July 9, 2018 2) Operator's Well Number WM Goode 2

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

43-02238P

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

4) Surface Ow	ner(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 Ow:	ner(s) with Declaration	
Address		Name	NA	
		Address		
(c) Name		Name	2	
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.

	Vell Operator	HG Energy, LLC	<u></u>	
OFFICIAL SEAL	y:	Diane White	Piane White	RECEIVED
NOTARY PUBLIC. STATE OF WEST VIRGINIA	s:	Agent		Office of Oil and Gas
H G Energy LLC A	ddress	5260 Dupont Road		
PO Box 5519, Vienna, WV 28105 My Commission Expires November 2, 2021		Parkersburg, WV 26	5101	JUL 23 2018
	elephone	304-420-1119		
	2			WV Department of Environmental Protection
Subscribed and sworn before me this _	9th da	y of	Notary Public	-
My Commission Expires 11/2/	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	042 02238	
(5/16)	API Number 47 - 043 _ 02238 Operator's Well No.	
STATE OF WEST VIRGIN DEPARTMENT OF ENVIRONMENTAL OFFICE OF OIL AND GA FLUIDS/ CUTTINGS DISPOSAL & RECLA Operator Name_ HG Energy, LLC	IA A PROTECTION	
	e Garrett's Bend 7.5'	
Do you anticipate using more than 5,000 bbls of water to complete the proposed Will a pit be used? Yes No		
If so, please describe anticipated pit waste: NA		
Will a synthetic liner be used in the pit? Yes No 🖌 I	If so, what ml.?	
Proposed Disposal Method For Treated Pit Wastes:	RECEIVED Office of Oil and G	as
Land Application (if selected provide a completed for Underground Injection (UIC Permit Number Reuse (at API Number	rm WW-9-GPP) JUL 2 , 3 2018	B of
Off Site Disposal (Supply form WW-9 for disposal lo Other (Explain	Environmental Prote	3011011
Will closed loop system be used? If so, describe: <u>No</u>		
Drilling medium anticipated for this well (vertical and horizontal)? Air, freshwa	ater, oil based, etc. NA	
-If oil based, what type? Synthetic, petroleum, etc. NA		
Additives to be used in drilling medium? NA		
Drill cuttings disposal method? Leave in pit, landfill, removed 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? <u>NA</u>		
Permittee shall provide written notice to the Office of Oil and Cas of any load o West Virginia solid waste facility. The notice shall be provided within 24 hours		

where it was properly disposed.

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 Subscribed and sworn before me this 9th	day of July	. 20 (8	OFFICIAL SEAL NOTARY PUBLIC. STATE OF WEST VIRGINIA MARK J SCHALL H G Energy LL C PO Box 5519, Vienna, WV 26105 My Commission Expletes November 2, 2021
My commission expires $(1/2/2021)$		Notary Public	MACCOUNTERIOR EXPIRES KOVERNDER & CORRECT VIEGUIAL MACCOUNTERIOR EXPIRES KOVERNDER & CORRECT MACCOUNTERIOR EXPIRES KOVERNDER & CARCET MACCOUNTERIOR & CARCET

43-02238P

Form WW-9		Operator's W	/ell No	
Proposed Revegetation Treat	tment: Acres Disturbed 0.9	Preveg etation p	H	
Lime 3	Tons/acre or to correct to pH	I <u>6.5</u>		
Fertilizer type 10-2	20-20 🗄			
Fertilizer amount	500 _I	bs/acre		
Mulch_Straw	22	/acre	Offic	RECEIVED ce of Oil and Gas
	See	<u>ed Mixtures</u>	JL	JL 2 3 2018
Te	mporar y	Perma	ment Enviro	/ Department of onmental Protection
Seed Type	lbs/acre	Seed Type	lbs/acre	
Tall Fescue	40	Tall Fescue	40	
Ladino Clover	5	Ladino Clover	5	
** Sediment Contro	I Will Be In Place At All	Times **		

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. sediment	mith				
Comments:	sediment	control	to be	10 moved	Prior	to
release						
					<u>.</u>	
					, <u></u>	
,						
Title: 0:11	Gres Inspec	10R	Date:	7-17-18	P	<u> </u>
Field Reviewed?		s ()No			

43-02238P

Page <u>l</u> of <u>Z</u> API Number 47 - <u>043</u> - <u>02238</u> Operator's Well No. WM 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:

 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.

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 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.

WW-9- GPP Rev. 5/16

4-3-02238P

WW-9-GPP	
Rev. 5/16	

Page <u>2 of </u>2 API Number 47 - <u>043</u> - <u>02238</u> 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.

7. 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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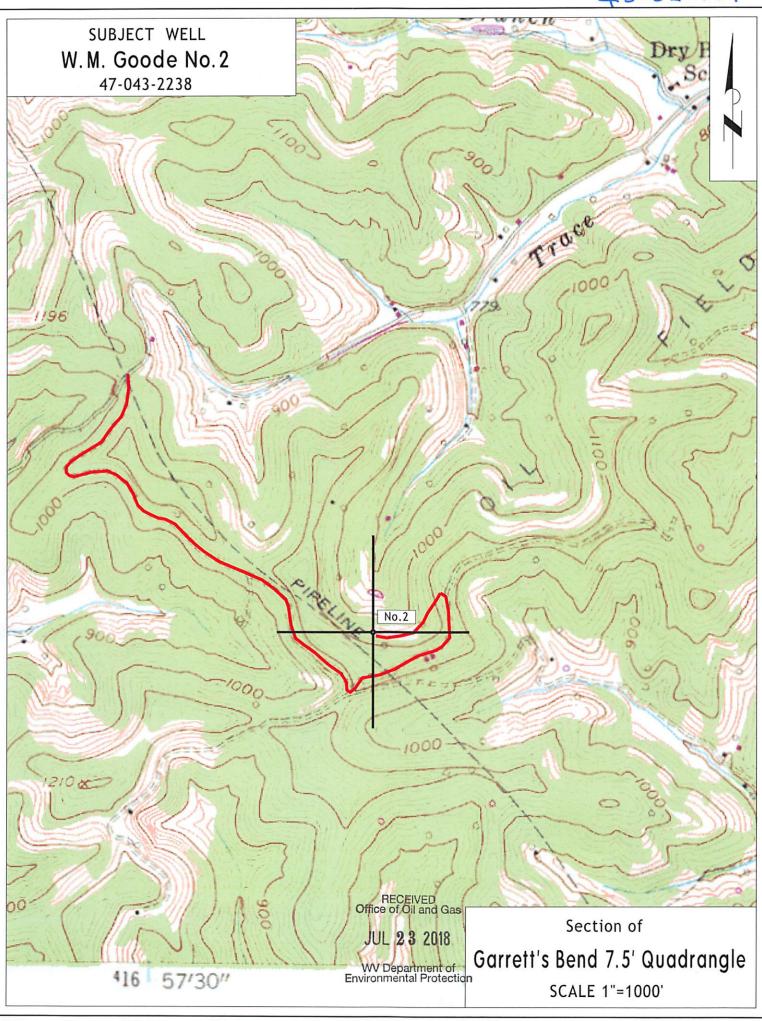
8. Provide provisions and frequency for inspections of all GPP elements and equipment.

NA Signature: ______ Diane White

.

Date: 7-9-18

43-02238 P



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	2	
FARM NAME:	W.M. Goode No.2				
RESPONSIBLE PARTY N	AME: H.G. E	Cnergy, LLC			
COUNTY:	Lincoln		DISTRICT:	Duval	
QUADRANGLE:	Garrett's Bend 7	.5'			<u> </u>
SURFACE OWNER:	Harold Hoffman	П			
ROYALTY OWNER:	HG Energy, LLC	0			
UTM GPS NORTHING:	4,235,058	(NAD 83)	_		
UTM GPS EASTING:	416,731	(NAD 83)	_GPS ELEVATION:	329 m.	(1072')

The Responsible Party named above has chosen to submit GPS coordinates in lieu of preparing a new well location plat for a plugging permit or assigned API number on the above well. The Office of Oil & Gas will not accept GPS coordinates that do not meet the following requirements:

- 1. Datum: NAD 1983, Zone:17 North, Coordinate Units: meters, Altitude: height above mean sea level (MSL) meters.
- 2. Accuracy to Datum 3.05 meters
- 3. Data Collection Method:

Survey Grade GPS

Real-Time Differential

Х

Post Processed Differential

Mapping Grade GPS X Post Processed Differential Real-Time Differential

4 Letter size copy of the topography map showing the well location.

I the undersigned, hereby certify this data is correct to the best of my knowledge and belief and shows all the information required by law and the regulations issued and prescribed by the Office of Oil and Gas.

Diane C White	Designated Agent	6/11/2018
Diane C. White	Title	Date
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JUL 2 3 2018

WV Department of Environmental Protection