

#### 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

Harold D. Ward, Cabinet Secretary www.dep.wv.gov

Tuesday, February 16, 2021 WELL WORK PLUGGING PERMIT Vertical Plugging

HG ENERGY, LLC 5260 DUPONT ROAD

PARKERSBURG, WV 26101

Re: Permit approval for 2 47-087-03089-00-00

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

Operator's Well Number: 2

Farm Name: FERRELL, C. B.

U.S. WELL NUMBER: 47-087-03089-00-00

Vertical Plugging Date Issued: 2/16/2021

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. 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.

WW-4B Rev. 2/01

1) Dat	e Janua		2021		
2) Ope					
	1 No.				_
3)API	Well	No.	47-087	- 03089	

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

EV	Location: Elevation 1036'	Watershed Edgle Fork	
5)	District Smithfield	County Roane Quad	Irangle Looneyville 7.5'
		Dian	ne White
6)	Well Operator HG Energy, LLC	7) Designated Agent Dian	Dupont Road
	Address 5260 Dupont Road Parkersburg, WV 26101		ersburg, WV 26101
8)	Oil and Gas Inspector to be notified  Name Joe Taylor	9) Plugging Contractor Name To Be Deter	mined Upon Approval of the Permi
	Address 1478 Claylick Road	Address	
	Ripley, WV 25271		
	TD- 2063' Big Injun 2008' - 2062'	ee next page for plugging	manners^^
	TD- 2063' Big Injun 2008' - 2062' Water 1030' Salt Water 1595' 6% Gel between cement plugs		RECEIVED
	TD- 2063' Big Injun 2008' - 2062' Water 1030' Salt Water 1595'  CAS 1566		
	TD- 2063' Big Injun 2008' - 2062' Water 1030' Salt Water 1595' 6% Gel between cement plugs		RECEIVED Office of Oil and Car

### HG Energy, LLC Plugging Manners CB Ferrell 2 (47-087-03089)

Elevation 1036' TD 2063'

Big Injun 2008'-2062'

5 1/2" casing on packer 2010' 6 5/8" casing 1892' 8 ¼" casing 892' 10" casing 227' (pulled)

Water 1030' Salt water 1595'

Release packer on 5 1/2" and pull, if necessary free point and cut, est. 2000'

Plug 1- 2015'- 1840'

Plug 2- 1740'- 1490' Free point, cut and pull 6 5/8" casing est. 1030'

Plug 3- 1090'- 840' If necessary, adjust for 6 5/8" casing cut

Plug 4- 280'- 175'

Plug 5- 100'- surface

Set monument per DEP specifications

6% Gel between all plugs

Office of Oil and Gas

FEB 0 5 2021

WV Department of Environmental Protection

Well	No. A uilt by drilled by drilling	0	o B.	as B District Welson Tac 190910	Noo	uu	Contr	actor. 190/9/0
ROCK	FORMAT	ION	TOP	BOTTOM			REMARKS	
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			CAS	ING R	ECO	RD		
	CHARGED WELL	TO PI	T IN ELL	PULLED	LEFT	IN L	Transferred be- fore Completion	Left at Well Not in Use
Size	Feet	In. Fe	ot In.	Feet In.	Feet	In.	Foet In.	Feet In
- 10 - 28/4 698			12 .	227		* * * * * * * * * * * * * * * * * * * *	Stat 12/17/10	20gt 89mj

Production First 24 Hours \ 25 Bble. Signed & Dedwell

RECEIVED Office of Oil and Gas

FEB 0 5 2021

WV Department of Environmental Protection

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WW-4A Revised 6-07 Date: January 17, 2021
 Operator's Well Number
 C B Ferrell No. 25

3) API Well No.: 47 -

087 -

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

	mer(s) to be served: Timothy D. May		Name	NA	
(a) Name	242 Edgle Fork Road		Address		
Address	Spencer, WV 25276				
a var	Spencer, WV 20210		(b) Coal (	Owner(s) with Declaration	n
(b) Name	1		Name	NA	
Address			Address		
			Name		
(c) Name			Address	-	
Address			-	-	
Inspector	Joe Taylor	-1		essee with Declaration	
Address	1478 Claylick Road	0/	Name	NA	
	Ripley, WV 25271	2/	Address		
Telephone	304-380-7469		_		
(1) The we. (2) The	e application to Plug and l its and the plugging wor e plat (surveyor's map) sho	Abandon a Well on F k order; and owing the well locatio	n on Form WW-6		
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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 <a href="mailto:depprivacyoffier@wv.gov">depprivacyoffier@wv.gov</a>.

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H	Extra Services & Fees (check box, add fee as appropriate)
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~	242 Edgle Fork Kd
	Spencer WV 25276
	PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

Office of Oil and Gas

FEB 0 5 2021

WV Department of Environmental Protection TRANSPERSONS.

TALLES OF SELECTION

Baran and suite Tagaing transmission

### SURFACE OWNER WAIVER

Operator's Well Number

C B Ferrell 2

### INSTRUCTIONS TO SURFACE OWNERS NAMED ON PAGE WW4-A

The well operator named on page WW-4A is applying for a permit from the State to plug and abandon a well. (Note: If the surface tract is owned by more than three persons, then these materials were served on you because your name appeared on the Sheriff's tax ticket on the land or because you actually occupy the surface tract. In either case, you may be the only owner who will actually receive these materials.) See Chapter 22 of the West Virginia Code. Well work permits are valid for 24 months. If you do not own any interest in the surface tract, please forward these materials to the true owner immediately if you know who it is. Also, please notify the well operator and the Office of Oil and Gas.

### NOTE: YOU ARE NOT REQUIRED TO FILE ANY COMMENT. WHERE TO FILE COMMENTS AND OBTAIN ADDITIONAL INFORMATION:

Chief, Office of Oil and Gas
Department of Environmental Protection
601 57th St. SE
Charleston, WV 25304
(304) 926-0450

RECEIVED
Office of Oil and Gas

FEB **0 5** 2021

WV Department of Environmental Protection

Time Limits and methods for filing comments. The law requires these materials to be served on or before the date the operator files his Application. You have FIVE (5) DAYS after the filing date to file your comments. Comments must be filed in person or received in the mail by the Chief's office by the time stated above. You may call the Chief's office to be sure of the date. Check with your postmaster to ensure adequate delivery time or to arrange special expedited handling. If you have been contacted by the well operator and you have signed a "voluntary statement of no objection" to the planned work described in these materials, then the permit may be issued at any time.

Comments must be in writing. Your comments must include your name, address and telephone number, the well operator's name and well number and the approximate location of the proposed well site including district and county from the application. You may add other documents, such as sketches, maps or photographs to support your comments.

The Chief has the power to deny or condition a well work permit based on comments on the following grounds:

- 1) The proposed well work will constitute a hazard to the safety of persons.
- 2) The soil erosion and sediment control plan is not adequate or effective;
- 3) Damage would occur to publicly owned lands or resources;
- 4) The proposed well work fails to protect fresh water sources or supplies;
- 5) The applicant has committed a substantial violation of a previous permit or a substantial violation of one or more of the rules promulgated under Chapter 22, and has failed to abate or seek review of the violation...".

If you want a copy of the permit as it is issued or a copy of the order denying the permit, you should request a copy from the Chief.

### **VOLUNTARY STATEMENT OF NO OBJECTION**

I hereby state that I have read the instructions to surface owners and that I have received copies of a Notice and Application For A Permit To Plug And Abandon on Forms WW-4A and WW-4B, and a survey plat.

objection to a permit being issued on th	ose materials.	he planned wo	rk described in these materials, and I have no
FOR EXECUTION BY A NATURAL P ETC.	ERSON		FOR EXECUTION BY A CORPORATION,
	Date	Name	
Signature		By Its	Date

Signature

Date

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Translation of the Archellation of the South Street Labor 1987, in 

31、分析上計畫與重新



HG Energy, LLC 5260 Dupont Road Parkersburg, WV 26101 (304) 420-1100 - Office (304) 863-3172 - Fax

January 18, 2021

Timothy D. May 242 Edgle Fork Road Spencer, WV 25276

RE:

C. B. Ferrell No. 2 (47-087-03089)

Smithfield District, Roane County

West Virginia

#### Dear Landowner:

Enclosed are copies of various application papers that we have filed with the West Virginia Department of Environmental Protection (WVDEP), Office of Oil and Gas. A well work permit is being requested for the above-referenced well.

Pursuant to WV Code Chapter 22B, Article 6, you are receiving copies of this correspondence because the well or other anticipated disturbance is located on your surface property. Your rights as a landowner are detailed in the enclosed permit application papers.

No action on your part is required. If you have any questions or comments regarding this application, you may call this office at (304) 420-1119.

Very truly yours,

Diane White

Diane C. White

Office of

FEB 05

Environmental Focus

Enclosures

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WW-9 (5/16)

	87 _ 03089		
Operator's Well No.	C.13. Ferrell	井	2

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

FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

Operator Name HG Energy, LLC	OP Code 494497948	
Watershed (HUC 10)_ Edgel Fork	Quadrangle Looneyville 7.5'	
Do you anticipate using more than 5,000 bbls of water to	complete the proposed well work? Yes No No	
Will a pit be used? Yes ✓ No If so, please describe anticipated pit waste: Flu	uids encountered while plugging the well	
Will a synthetic liner be used in the pit? Yes	No If so, what ml.? 20 mil	
Proposed Disposal Method For Treated Pit Wast		
	provide a completed form WW-9-GPP)	
Underground Injection (UIC I	Permit Number	)
Reuse (at API Number		)
Off Site Disposal (Supply form Other (Explain Any well effluent	m WW-9 for disposal location) t will be contained in tanks until disposed of off site at an approved disposal sit	te.
Will closed loop system be used? If so, describe: No		
Drilling medium anticipated for this well (vertical and ho	orizontal)? Air, freshwater, oil based, etc. NA	
-If oil based, what type? Synthetic, petroleum, e		
Additives to be used in drilling medium? NA	REGE	IVED:
Drill cuttings disposal method? Leave in pit, landfill, rem	noved offsite, etc. NA Office of C	
-If left in pit and plan to solidify what medium v	E-1-12 A1	5 2021
-Landfill or offsite name/permit number? To be	determined upon approval of the plugging permit	al protection
Permittee shall provide written notice to the Office of Oil West Virginia solid waste facility. The notice shall be prowhere it was properly disposed.	l and Gas of any load of drill cuttings or associated waste rejected ovided within 24 hours of rejection and the permittee shall also di	l at any sclose
on April 1, 2016, by the Office of Oil and Gas of the Wordsions of the permit are enforceable by law. Violation or regulation can lead to enforcement action.  I certify under penalty of law that I have personally the beauty that I have personally the beauty that the personal that have		ted on this
Company Official (Typed Name) Diane White		d
Company Official Title Agent		3/
Subscribed and swom before me this 18th da	ay of January , 20 21	
	Notary Publ	DEELCIAL SEA
My commission expires 7/3/2022	5301.13	OFFICIAL SEA TE OF WEST VI NOTARY PUBL SIDY A. BOAF Ith Ave Vienna, ission Expires

Operator's Well No. C. B. Ferrell #2

roposed Revegetation Treatr	ment. Acres Disturbed		I
Lime	3 Tons/acre or to correc	et to pH 6.5	
Fertilizer type10			
Fertilizer amount_		500 lbs/acre	
Mulch_Straw	2	Tons/acre	
		Seed Mixtures	
Ter	nporary	Perma	nent
Seed Type	lbs/acre	Seed Type	lbs/acre
Tall Fescue	40	Tall Fescue	40
Ladino Clover	5	Ladino Clover	5
Attach: Maps(s) of road, location, pi provided). If water from the (L, W), and area in acres, of	t and proposed area for lan pit will be land applied, pr the land application area.	nd application (unless engineered plans inclurovide water volume, include dimensions (L,	ding this info have been W, D) of the pit, and dimension
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provided). If water from the (L, W), and area in acres, of Photocopied section of invol	t and proposed area for lan pit will be land applied, pr the land application area. ved 7.5' topographic sheet	nd application (unless engineered plans inclurovide water volume, include dimensions (L,	; m, b) or map project
Attach: Maps(s) of road, location, pi provided). If water from the (L, W), and area in acres, of Photocopied section of invol	t and proposed area for lan pit will be land applied, pr the land application area. ved 7.5' topographic sheet	nd application (unless engineered plans inclurovide water volume, include dimensions (L,	Office of FEB 0 5 7
Attach: Maps(s) of road, location, pi provided). If water from the (L, W), and area in acres, of Photocopied section of invol	t and proposed area for lan pit will be land applied, pr the land application area. ved 7.5' topographic sheet	nd application (unless engineered plans inclurovide water volume, include dimensions (L,	Office of Chart
Attach: Maps(s) of road, location, pi provided). If water from the (L, W), and area in acres, of Photocopied section of invol	t and proposed area for lan pit will be land applied, pr the land application area. ved 7.5' topographic sheet	nd application (unless engineered plans inclurovide water volume, include dimensions (L,	Office of FEB 0 5 7
Attach: Maps(s) of road, location, pi provided). If water from the (L, W), and area in acres, of Photocopied section of invol	t and proposed area for lan pit will be land applied, pr the land application area. ved 7.5' topographic sheet	nd application (unless engineered plans inclurovide water volume, include dimensions (L,	Office of FEB 0 5 7
Attach: Maps(s) of road, location, pi provided). If water from the (L, W), and area in acres, of Photocopied section of invol	t and proposed area for lan pit will be land applied, pr the land application area. ved 7.5' topographic sheet	nd application (unless engineered plans inclurovide water volume, include dimensions (L,	Office of FEB 0 5 7

WW-9- GPP Rev. 5/16

Pag	ge (	of	2
API Number 47 - 08		03089	
Operator's Well No.	C.B. F	errell	中2

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

perator Name: HG Energy, LLC atershed (HUC 10): Edgle Fork	Quad: Looneyville 7.5'
rm Name:	
	and the second s
List the procedures used for the treatment and dischargroundwater.	ge of fluids. Include a list of all operations that could contaminate the
NA	
	the list of notantial contaminant sources shove.
Describe procedures and equipment used to protect gr	oundwater quality from the list of potential contaminant sources above.
NA	
versity to act water body, distance to closest water	er body, and distance from closest Well Head Protection Area to the
List the closest water body, distance to closest water discharge area.	er body, and distance from closest Well Head Protection Area to the
List the closest water body, distance to closest water discharge area.	er body, and distance from closest Well Head Protection Area to the
discharge area.	er body, and distance from closest Well Head Protection Area to the
List the closest water body, distance to closest water discharge area.	er body, and distance from closest Well Head Protection Area to the
discharge area.	
discharge area.	RECEIVED Office of Oil and
discharge area.	Office of Oil and FEB 0 5 202
discharge area.	Office of Oil and FEB 0 5 202
NA	RECEIVED Office of Oil and FEB 0 5 202  WV Deparamental Prote
NA	RECEIVED Office of Oil and FEB 0 5 202  WV Deparamental Prote
NA  Summarize all activities at your facility that are already	RECEIVED Office of Oil and FEB 0 5 202  WV Deparamental Prote
NA  Summarize all activities at your facility that are already	RECEIVED Office of Oil and FEB 0 5 202  WV Deparamental Prote
NA	RECEIVED Office of Oil and FEB 0 5 202  WV Deparamental Prote

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

WW	-9-	GPP
Rev.	5/1	6

Page 2 of 2

API Number 47 - 087 - 03089

Operator's Well No. C. B. Ferre | # 2

A	
0.7	
Provide a statement that no waste material will be use	ed for deicing or fill material on the property.
IA	
	I twicing to be provided to the employees. Job procedures shall
Describe the groundwater protection instruction and provide direction on how to prevent groundwater con	I training to be provided to the employees. Job procedures shall atamination.
NA	
	RECEIVED
	RECEIVED Office of Oil and Gas
	FEB 0 5 2021
	FEB 0 5 2021  WV Department of Environmental Protection
Provide provisions and frequency for inspections of	FEB 0 5 2021  WV Department of Environmental Protection
	FEB 0 5 2021  WV Department of Environmental Protection
Provide provisions and frequency for inspections of	FEB 0 5 2021  WV Department of Environmental Protection
	FEB 0 5 2021  WV Department of Environmental Protection
NA	FEB 0 5 2021  WV Department of Environmental Protection  all GPP elements and equipment.
	FEB 0 5 2021  WV Department of Environmental Protection

4708703089P SUBJECT WELL C.B. Ferrell No. 2 47-087-3089 Ferrell Chambers over Cem OOC & BM Gas Well Clover Compressor No.2 Section of Looneyville 7.5' Quadrangle SCALE 1"=1000"

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

### WELL LOCATION FORM: GPS

API;47- 0	87 - 03089	WELL NO:	2
FARM NAME:C	.B. Ferrell		
RESPONSIBLE PARTY NAI	ME: HG Energy, LLC		
COUNTY: R	oane	DISTRICT:	Smithfield
QUADRANGLE:	Looneyville 7.5'		
SURFACE OWNER: _	Timothy D. May		
ROYALTY OWNER: _	HG Energy, LLC et al.		
UTM GPS NORTHING: _	4,285,489		(10361)
UTM GPS EASTING:	475,841	GPS ELEVATION:	
height above	1983, Zone:17 North, Coordina mean sea level (MSL) - meters. Datum - 3.05 meters		Office of Oil and Gas. FEB 0 5 2021
<ol> <li>Accuracy to Datum - 3.05 meters</li> <li>Data Collection Method:</li> </ol>		¥-	FEB <b>0 5</b> 2021
Survey Grade GPS		nl	WV Department of Environmental Protection
Mapping Grade G	PS X Post Processed Differential Real-Time Differential	al X	
I the undersigned, hereby cerbelief and shows all the inforprescribed by the Office of C	rtify this data is correct to the best rmation required by law and the re Oil and Gas.	of my knowledge and egulations issued and	
Diane White	Diane C. White	Designated A	gent
Signature		Title	
January 13, 2021			1
Date		50	



### HG Energy, LLC 5260 Dupont Road Parkersburg, WV 26101 (304) 420-1100 - Office (304) 863-3172 - Fax

January 18, 2021

Jeff McLaughlin WVDEP Division of Oil & Gas 601 57th Street Charleston, West Virginia 25304

RE:

C. B. Ferrell No. 2 - (47-087-03089) Smithfield District, Roane County

West Virginia

Dear Mr. McLaughlin:

Enclosed are Forms WW-4(A), WW-4(B), WW-9, and WW-7, topo map, well record and a copy of the certified mailing receipt to authorize plugging and abandonment of the above captioned well.

Please let me know if you need further information. I can be reached at 304-420-1119 or dwhite@hgenergyllc.com.

Very truly yours,

Diane White

Diane C. White

RECEIVED
Office of Oil and Gas

FEB 0 5 2021

WV Department of Environmental Protection

Enclosures

cc:

Timothy D. May - Certified Joe Taylor - DEP State Inspector