

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

Monday, December 19, 2022 WELL WORK PERMIT Vertical / Convert

HG ENERGY, LLC 5260 DUPONT ROAD

PARKERSBURG, WV 26101

Permit approval for EPHRAIM GRIFFITH 133 Re: 47-043-03587-00-00

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.

Please be advised that form WR-35, Well Operators Report of Well Work 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: EPHRAIM GRIFFITH 133

Farm Name: JASON & ASHLEY BENDER

U.S. WELL NUMBER: 47-043-03587-00-00

Vertical Convert

Date Issued: 12/19/2022



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. If the operator encounters an unanticipated void, or an anticipated void at an unanticipated depth, the operator shall notify the inspector within 24 hours. Modifications to the casing program may be necessary to comply with W. Va. Code §22-6-20, which requires drilling to a minimum depth of thirty feet below the bottom of the void, and installing a minimum of twenty (20) feet of casing. Under no circumstance should the operator drill more than fifty (50) feet below the bottom of the void or install less than twenty (20) feet of casing below the bottom of the void.
- Pursuant to 35 CSR 4-19.1.a, at the request of the surface owner all water wells or springs within 1000 feet of the proposed well that are actually utilized for human consumption, domestic animals or other general use shall be sampled and analyzed.
- 3. Pursuant to 35 CSR 4-19.1.c, if the operator is unable to sample and analyze any water well or spring with one thousand (1,000) feet of the permitted well location, the Office of Oil and Gas requires the operator to sample, at a minimum, one water well or spring located between one thousand (1,000) feet and two thousand (2,000) feet of the permitted well location.
- 4. All pits must be lined with a minimum of 20 mil thickness synthetic liner.
- 5. 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.
- 6. During the surface casing and cementing process, in the event cement does not return to the surface, or any other casing string that is permitted to circulate cement to the surface and does not return to the surface, the oil and gas inspector shall be notified within twenty-four (24) hours
- 7. Well work activities shall not constitute a hazard to the safety of persons.
- Operator shall provide the Office of Oil & Gas notification of the date that drilling commenced
 on this well. Such notice shall be provided by sending an email to DEPOOGNotify@wv.gov
 within 30 days of commencement of drilling.

NOV 2 8 2022

47043035875

FORM WW-3 (B) 1/12



WV Department of **Environmental Protection**

1) Date: 10/25/2022 2) Operator's Well No. Ephraim Grifith No 133 Rev

3) API Well No .: - 03587 - . 043 Permit State County

4) UIC Permit No.

UIC2R04301AP

STATE OF WEST VIRGINIA NOTICE OF LIQUID INJECTION OR WASTE DISPOSAL WELL WORK PERMIT APPLICATION FOR THE DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS

6) LOCATION: Elevation: 888	5) WELL TY		uid Injectio	on 🗸	/	-	ction (not stora	ge)	/ W	aste Disposal	
NELL OPERATOR: HG Energy, LIC 5250 Dupont Road Farkensburg, WV 28101 Address Raddress									2.7.5'		
Address 5280 Dupont Road Parkersburg, WV 26101 Parkersburg, WV 26107 Po Dox 1207 Po Dox 1207									51.5		
Parkersburg, WV 28101	7) WELL OF						8) DESIGNA		-		
OIL & GAS INSPECTOR TO BE NOTIFIED Name To Be Determined Upon Approval of Permit To Convert To Convert		24-11-11-11-11-11-11-11-11-11-11-11-11-11						Addres			
Name			211				0.00			ourg, WV 26101	
Address POB to 1207	,	AS INSPECT	OR TO BE	ENOTIFI	ŒD .						
11) PROPOSED WELL WORK	-	11444									
11 PROPOSED WELL WORK	Address PO Box 1207 Address										
Plug off old formation		Clendenin, WV 25045									
13 Estimated Depth of Completed Well, (or actual depth of existing well): 2822'	Plug off old formation / Perforate new formation Convert Other physical change in well (specify) Convert producing well to injection well and stimulate									nvert 🗸	
14) Approximate water strata depths:	12) GEOLO	JD	I FURIVIA	TION DE	erea	anth of oxide				2004	reet (bottom)
15 Approximate coal seam depths:										Foot	
16 Is coal being mined in the area? Yes							- Feet	Sait _	1070	Feet	
177 Virgin reservoir pressure in target formation 1250 psig Source Estimated					- 445			70		H	
18) Estimated reservoir fracture pressure 2650					1000						
19) MAXIMUM PROPOSED INJECTION OPERATIONS: Volume per hour 25 bbl's Bottom hole pressure 2400 psi 20) DETAILED IDENTIFICATION OF MATERIALS TO BE INJECTED, INCLUDING ADDITIVES water, bactericides and other chemicals as needed to maintain water quality and improve oil recovery 21) FILTERS (IF ANY) Cartridge filters and/or coal bed filters 22) SPECIFICATIONS FOR CATHODIC PROTECTION AND OTHER CORROSION CONTROL 23) CASING AND TUBING PROGRAM CASING OR TUBING TYPE Size Grade Weight New Used For Drilling Left In per ft.						psig	g Source	Estimated			:- (DITED)
20) DETAILED IDENTIFICATION OF MATERIALS TO BE INJECTED, INCLUDING ADDITIVES water, bactericides and other chemicals as needed to maintain water quality and improve oil recovery 21) FILTERS (IF ANY) Cartridge filters and/or coal bed filters 22) SPECIFICATIONS FOR CATHODIC PROTECTION AND OTHER CORROSION CONTROL 23) CASING AND TUBING PROGRAM CASING OR TUBING TYPE Size Grade Weight per ft. V 14' 14' 14' 14' 16' OR SACKS (CU. FT.) Coal Toal Intermediate Fresh water, produced Presh water, produced Presh water, produced PACKERS FOOTAGE INTERVALS CEMENT FILL - UP OR SACKS (CU. FT.) Kinds Fresh Water Fresh water 27' LS 17# x 549.52' 549.52' 549.52' Depths set Tubing 2 3/8' J-55' 10.5# x 2775.89' 2775.89' Depths set Tubing 2 3/8' J-55' 10.5# x 2550' 2550' 2450' Preforations Top Bottom Bottom by deed / lease x / other contract / dated 12/19/1906 of record in the						TONIO T	7 1 1	05111	D 4 1		
water, backerioides and other chemicals as needed to maintain water quality and improve oil recovery 21) FILTERS (IF ANY) Catridge filters and/or coal bed filters 22) SPECIFICATIONS FOR CATHODIC PROTECTION AND OTHER CORROSION CONTROL 23) CASING AND TUBING PROGRAM CASING OR TUBING TYPE Size Grade Weight Per ft. New Used Pro Drilling Well Well Per ft. Left In Well Per ft. PACKERS FILL—UP OR SACKS (CU.F.T.) Conductor 13 3/8° Ls v 14' 14' Kinds Fresh Water 7° Ls 17# x 549.52' 549.52' 549.52' Coal Intermediate Sizes Sizes Depths set Intermediate 1.55 10.5# x 2775.89' 2775.89' Depths set Tubing 2 3/8" J-55 4.6# x 2550' 2550' 2450' Liners 1.6	19) MAXIM	UM PROPOS	SED INJE	CTION O	PERAI	IONS: V	olume per nou	IL 52 ppl.2			
21) FILTERS (IF ANY) Cartridge filters and/or coal bed filters								CLUDING	ADDITIVE	S Fresh water,	produced
22) SPECIFICATIONS FOR CATHODIC PROTECTION AND OTHER CORROSION CONTROL							prove oil recovery		2,5		
CASING AND TUBING PROGRAM											
CASING OR TUBING TYPE Size Grade Weight per ft. New per ft. V	22) SPECIFI	CATIONS F	OR CATH	ODIC PF	ROTEC	TION AND	OTHER COR	ROSION C	CONTROL	-	
CASING OR TUBING TYPE Size Grade Weight per ft. New per ft. V	<u> </u>		5.								
TUBING TYPE Size Grade Weight per ft. New Used For Drilling Left In Well OR SACKS (CU. FT.)	23) CASING	AND TUBING	PROGRAI	M			·			I	
Conductor 13 3/8" LS	CASING O	R.	. SP	ECIFICATI	IONS	,	0	TERVALS		PAC	KERS
Conductor	TUBING TY	PE Size	Grade		New	Used	For Drilling				
Conductor				per ft.				Well			
Fresh Water									(CU. F1.)		
Coal	The state of the s	13 3/8"	LS		v		14'	14'		Kinds	
Intermediate	Fresh Water	7"	LS ,	17#	×		549.52'	549.52'			
Production 4 1/2" J-55 10.5# x 2775.89' 2775.89' Depths set Tubing 2 3/8" J-55 4.6# x 2550' 2550' 2450' Liners Perforations Top Bottom 2646' 2664' 24) APPLICANT'S OPERATING RIGHTS were acquired from by deed E & A Griffith Liners Image: Contract of the	Coal						310				2 3
Tubing 2 3/8" J-55 4.6# x 2550' 2550' 2450' Liners Perforations Top Bottom 2646' 2664' 24) APPLICANT'S OPERATING RIGHTS were acquired from by deed / lease x / other contract / dated 12/19/1906 of record in the	Intermediate									2.375	" x 4.5"
Liners Perforations 1 1 1 1 1 1 1 1 1 1 1 1 1 2646' 2664' 2	Production	4 1/2"	J-55	10.5#	×		2775.89'	2775.89'		Depths set	
24) APPLICANT'S OPERATING RIGHTS were acquired from by deed / lease _x / other contract / dated12/19/1906 of record in the	Tubing	2 3/8"	J-55	4.6#	x		2550'	2550'	4	24	450'
24) APPLICANT'S OPERATING RIGHTS were acquired from by deed / lease _x / other contract / dated12/19/1906 of record in the	Liners										
24) APPLICANT'S OPERATING RIGHTS were acquired from by deed / lease _x / other contract / dated12/19/1906 of record in the										Top	Bottom
by deed / lease _x / other contract / dated _12/19/1906 of record in the	*(2646'	2664'
by deed / lease _x / other contract / dated _12/19/1906 of record in the											
by deed / lease _x / other contract / dated _12/19/1906 of record in the	24) APPLIC	ANT'S OPER	ATING R	IGHTS v	vere acq	uired from	E & A Griffith	Wil and the second			
							/ dated	12/19/1906		of	record in the
							ase		Book 39	Pa	ige
				152		X	1) /	1.0		2

/(-7-)_{72/23/2022}

FORM WW-3 (A) 1/12



1)	Date:	October 25	5, 2022			1		
2)	Operato	r's Well	No.	Ephrai	m Griffith I	No 133 R		
3)	API We	ll No.:	47	-	043	-		
1.61			State	_	Count	у	Permit	
4)	UIC Peri	mit No.	UIC2R	04301A	P			

STATE OF WEST VIRGINIA NOTICE OF LIQUID INJECTION OF WASTE DISPOSAL WELL WORK PERMIT APPLICATION FOR THE DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS,

	ner(S) To Be Served HG Energy, LLC	7) (a) Coal (Name	Operator		
(a) Name Address	5260 Dupont Road	Address	4		
Address	Parkersburg, WV 26101				
(b) Name		7) (b) Coal (Owner(S) With D	eclaration Of Record	
Address	-	Name	NA		
		Address			RECEIVED
					Office of Oil and Ga
(c) Name		Name	4		NOV 2 8 7022
Address		Address			NUVABOLICE
6) Inspector	Terry Urban	7) (c) Coal l	essee with Decla	ration Of Record	WV Department of Environmental Protect
Address	PO Box 1207	Name	NA		Enanominaria (10160
Hudress	Clendenin, WV 25045	Address		39	
Telephone	304-549-5915			¥	
The date	prosion and sediment control and for reclamate proposed for the first injection or wasted by YOU HAVE RECEIVED THESE DOON WHICH ARE SUMMARIZED IN THE "ATION [(FORM WW-3(B))] DESIGNATED ALL.	disposal is CUMENTS "INSTRUCT	IS THAT YOU	HAVE RIGHTS R	OF THE COPY OF
Notice and Ap West Virginia Application and and Reclamati	at under Chapter 22-6 of the West Virginia Copplication and accompanying documents for Department of Environmental Protection, and depicted on the attached Form WW-6. Coon Plan have been mailed by registered or con certain circumstances) on or before the day	a Well Wo with respec- opies of this ertified mail	rk Permit with the tot to a well at the Notice, the App or delivered by	e Chief of the Office le location described lication, the plat, and the person(s)	e of Oil and Gas, I on the attached I the Construction
	The person signing this docume	ent shall ma	ke the following	g certification:	
"I contifue and a	er penalty of law that I have personally examin	ned and	Well Operator	HG Energy, LLC	
am familiar wi	ith the information submitted in this documen	nt and all	Address	5260 Dupont Road	
attachments ar	nd that, based on my inquiry of those individu	ials		Parkersburg, WV 26101	
immediately re	esponsible for obtaining the information, I be	lieve that	By:	Diane White	
the information	n is true, accurate and complete. I am aware	that there	Its:	Agent	
are significant the possibility	penalties for submitting false information, in of fine and imprisonment.	cluding	Signature:	Diane li	Shite

WR-35 Rev. 8/23/13 Page 1 of 4

State of West Virginia Department of Environmental Protection - Office of Oil and Gas Well Operator's Report of Well Work

API 47- 043 03587	County LINCOLN	District DUVAL	<u> </u>
Quad GRIFFITHSVILLE 7.5'	Pad Name GRIFFITH, EPHR		RIFFITHSVILLE
Quad O'N FARM NAME BENDER, JASON & ASHL	EY	Well Number 133	
Parm name DETABLE 4, 7, 100 H. C. Operator (as registered with the OOG) H. C.	G. ENERGY LLC		
Operator (as registered with the UOG) Address 5260 DuPONT ROAD	City PARKERSBUR	G State WV	Zip 26101
Address OZGO DAY CTV	Ony		
113 Dillion Industria	Attach an as-drilled plat, profile ring 4,230,892 M	view, and deviation survey Easting 416,835 M	
Top hole North Landing Point of Curve North	ing	Easting	
Bottom Hole North	ing 4,230,518 M	Easting 416,847 M	
Elevation (ft) 888' GL	Type of Well New 🗆 Exi	sting Type of Report	OInterim #Final
	ntal 🗅 Horizontal 6A 🗆 V		
Type of Operation Convert Deepe	n 📕 Drill 🖂 Plug Back	□ Redrilling □ Rework	n Stimulate
Well Type Brine Disposal CBM	Gas 🗆 Oil 📕 Secondary Recov	ery 🗆 Solution Mining 🗅 St	orage 🗆 Other
			□ Other
Type of Completion ■ Single □ Multiple	Fluids Produced DErine	DOS DINOL BOIL	G OHM
Drilled with □ Cable ■ Rotary			
Drilling Media Surface hole Air Droduction hole Air DMud DFree Mud Type(s) and Additive(s) N/A		mediate hole BAir □ Mud	Fresh Water 13 Brine
		10/5/40	10/12/18
Date permit issued 9/5/18	Dark dilling confinence	10/5/18 Date drilling	CCB5CAL
Date completion activities began	12/26/18 Date compl	etion activities ceased	
Verbal plugging (Y/N) N Date	permission granted	Granted by	
	•		n In a
Please note: Operator is required to submit	t a plugging application within 5	days of verbal permission to	brak
	•		None .
Freshwater depth(s) ft No.		s) (Y/N) depths	None
Salt water depth(s) ft 1070		ountered (Y/N) depths	None
Coal depth(s) ft 440'- 44		acountered (Y/N) depths	
Is coal being mined in area (Y/N)	N ·		Reviewed by: RECEN
			Office of Oil

WV Department of Environmental Protection

/ -35					·			Page 2 of 4
Ev. 8/23/13								``
API 47-043	03587	Farm na	me BENDER,	3 NOSAL	ASHLEY	Well nu	mber_133	
CASING STRINGS	Hole Size	Casing Size	Depth	New or Used	Grade wt/ft	Bas Dep	ket th(s)	Did cement circulate (Y/ N) * Provide details below*
Conductor	15"	13 3/8"	14'	New	LS			Sand In
Surface	8 3/4"	7"	549.52'	New	LS		64'	Y
Coal	1 31/				··-			
Intermediate !								
Intermediate 2	-							
Intermediate 3								
Production	6 1/4"	4 1/2"	2775.89'	New	J-55			Υ
Tubing				-				
Packer type and d	epth set							
Comment Details CEMENT	Class/Type	Number		Yi	eid '	Volume	Cement	
DATA	of Cement	of Sacks	wt (ppg)	(¥,	/sks)	(ft.3)	Top (MD) (hrs)
Conductor		1.15	450	+	10	165	Surface	8
Surface Coal	Reg Neat	140	15.6		18	100	Sunace	, , ,
Coal Intermediate 1							·	
Intermediate 1								
Intermediate 3								
Production	50:50 Pozmíx	125/125	13.2/14.2	1.64	1.27 2	05/186	104'	. 8
Tubing	50.00 F021 IX	120,120	1012 (713					
	<u> </u>							
Drillers TD (ft		<u> </u>		Loggers TL				
	tion penetrated E	Beres	I	Plug back to	(II) WA			
Plug back pro	cedure N/A							
 				······		•		
Kick off depth	(ft) 650'							
Check all wire	line logs run	acaliper neutron	■ density ■ resistivity	ā deviate ā gamma	l/directional ray			□sonic
Well cored □	yes ≣ No	Convention	nal Sidewa	11	Were o	uttings col	llected 🔳 Y	es 🗆 No
								•
DESCRIBE T	HE CENTRALIZ from bottom on 4 1/2", Centrali	ZER PLACEME	NT USED FOR I	BACH CA	SING STRI	NG		
								· · · · · · · · · · · · · · · · · · ·
		· · · · · · · · · · · · · · · · · · ·						
WAS WELL O	COMPLETED A	S SHOT HOLE	□ Yes ■ N	o DE	AILS			
WAS WELL (COMPLETED O	PEN HOLE?	□Yes 🖪 No	DETA	us			RECEIV Office of Oil
		<u> </u>						NOV 2 8
יין א פיזי בו מבוננו	ERS USED a	Yes 🖪 No	TYPE OF TRA	CER(S) U	SED	<u></u>		- W Departm

Page 3 of 4 8/23/13 Farm name BENDER, JASON & ASHLEY Well number 133 PI 47- 043 03587 PERFORATION RECORD Perforated from MD ft. Number of Perforated to Stage Formation(s) MD ft. Perforations No. Perforation date Berea 2664' 72 2646' 10/26/18

Please insert additional pages as applicable.

STIMULATION INFORMATION PER STAGE

Complete a separate record for each stimulation stage.

Stage No.	Stimulations Date	Ave Pump Rate (BPM)	Ave Treatment Pressure (PSI)	Max Breakdown Pressure (PSI)	isip (PSI)	Amount of Proppant (lbs)	Amount of Water (bbls)	Amount of Nitrogen/other (units)
1	11/6/18	4	986	1641	755	1,000	140	
 '-	1170770							
				 				
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Please insert additional pages as applicable.

NOV 28 2022

WV Department of Environmental Protection 12/23/2022

35 8/23/13					·			,		Page 4	of 4
PI 47- 043	03587	Farm r	name BENDER	R, JASON	& ASHLEY	Well no	imber_	133			
	ORMATION	_	<u>DEPTHS</u> 2343'- 2464'	TVD 2	2640'- 2670'	MD		: .•	*;		
ierea									•		
<u> </u>											
							N	6	Peoc	OUCTIC	١
	ditional pages a					at	 				_
AS TEST	🗅 Build up 🗆				OILTEST of		Pump				
HUT-IN PRES	SURE Surf	ace	_psi Botto	m Hole	psi	DURAT	ION O	F TEST	r	hrs	
PEN FLOW	Gas	Oil	NGL	•	Water	GAS M					
PEN PLOW			opd	bpd _	bpd	🗆 Estim	ated	o Orif	ice r	Pilot	
ITHOLOGY/	TOP	воттом	TOP	BOTTOM							
ORMATION	DEPTH IN FT	DEPTH IN FT	DEPTH IN FT	DEPTH IN F	T DESCRIBE	ROCK TYP	B AND F	ECORI	QUAN.	CITYAND	יישו
314.11111	NAME TVD	TVD	MD	MD	TYPE OF FI	JUID (FRES	HWATE	R, BRI	NE, OIL,	JAS, H ₂ S, I	<u> </u>
Sand/Shale	0	440	0	440							
ittsburgh Coal	440	445	440	445				·		,	
Sand/Shale	445	1637	445	1694							
Blg Lime	1637	1842	1694	1935			- 				
Big injun	1842	1924	1935	2042							
Shale	1924	2323	2042	2610							
Coffee Shale	2323	2343	2610	2640		iled directi	and O	20 = -	dictor	a Of 0331	
Berea	2343	2364	2640	2670	Dr	nea airecti	uriai S 2	2.3 E 8	ustand	0 01 000	
Shale	2364	2468	2870	2822	_ -						
TD	2468		2822								
											
	ditional pages										
Orilling Contra	ctor Noah Hom andy Valley Lane	Well Drilling	City	Vansant		State	VA	Zip	24656		
ogging Comp	any Weatherfor	d International					n	77 1	62839	•	
Address 13211	Old Hwy 50		City	Flora		State	<u>IL</u>	Zip			
		nerav Services									
Cementing Con Address <u>580 Ha</u>	npany C & J Er		City	Norton		State	VA	Zip	24273		
Stimulating Co	mpany Produ	cers Service Co				a	ОН	7:	43701		
Address 109 So	outh Graham Stree	et	City	Zanesville		State					
Please insert ac	iditional pages	as applicable.	3		•		4407		4	RECE	IVED
سا استاد م	Roger Heldma	in		perations Ma	Telephon	e_304-420	-1107 Date _1	nie ii o	·	NOV 2	-
t Ottotoleten ni							17-4- 1	ZID/18			07

Environmental Protection

WW-9 Rev. 5/10

	Page		of	
API Number	47 - 043	-	03587	
Operator's We	Il No. Ephrain	n Grifitl	h No 133 Rev	

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

CONSTRUCTION AND RECLAMATION PLAN AND SITE REGISTRATION APPLICATION FORM GENERAL PERMIT FOR OIL AND GAS PIT WASTE DISCHARGE

Description of anticipated Pit Waste: No waste anticipated, not using a pit Do you anticipate using more than 5,000 bbls of water to complete the proposed well work? Yes No _x Will a synthetic liner be used in the pit? No If so, what mil.? Proposed Disposal Method For Treated Pit Wastes: Land Application Underground Injection (UIC Permit Number) Reuse (at API Number) Off Site Disposal (Supply form WW-9 for disposal location) Ofter (Explain No waste water or drill cuttings anticiated for the conversion Drilling medium anticipated for this well? Air, freshwater, oil based, etc NA Jf oil based, what type? Synthetic, petroleum, etc NA Will closed loop system be used? NA	GENERAL PERMIT FOR OIL AND GAS PIT WASTE DISCHARGE	
Watershed Porter Fork Quadrangle Griffithsville 7.5 Description of anticipated Pit Waste: No waste anticipated, not using a pit Do you anticipate using more than 5,000 bbls of water to complete the proposed well work? Yes No x Will a synthetic liner be used in the pit? No If so, what mil.? Proposed Disposal Method For Treated Pit Wastes: Land Application Underground Injection (UIC Permit Number Reuse (at API Number) Off Site Disposal (Supply form WW-9 for disposal location) Other (Explain No waste water or drill cuttings anticipated for the conversion Drilling medium anticipated for this well? Air, freshwater, oil based, etc. NA -If oil based, what type? Synthetic, petroleum, etc. NA Additives to be used? NA Will closed loop system be used? NA Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc. NA -If elf in pit and plan to solidify what medium will be used? Cement, lime, sawdust NA -Landfill or offsite name/permit number? NA I certify that I understand and agree to the terms and conditions of the GENERAL WATER POLLUTION PERMIT issued on August 1, 2005, 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 from 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 Office of Oil and Gas Company Official Title Agent NOV 2 8 2022	Operator Name HG Energy, LLC OP Code 494497948	
Description of anticipated Pit Waste: No waste anticipated, not using a pit Do you anticipate using more than 5,000 bbls of water to complete the proposed well work? Yes	0.400 31.7.6	
Do you anticipate using more than 5,000 bbls of water to complete the proposed well work? Yes	Dune!	
Do you anticipate using more than 5,000 bbls of water to complete the proposed well work? Yes	Description of anticipated Pit Waste: No waste anticipated, not using a pit	
Will a synthetic liner be used in the pit? No If so, what mil.? Proposed Disposal Method For Treated Pit Wastes:	Do you anticipate using more than 5,000 bbls of water to complete the proposed well work? Yes No _x	
Proposed Disposal Method For Treated Pit Wastes: Land Application Underground Injection (UIC Permit Number Dinderground Injection (UIC Permit Number Off Site Disposal (Supply form WW-9 for disposal location) Other (Explain No waste water or drill cuttings anticlated for the conversion Drilling medium anticipated for this well? Air, freshwater, oil based, etc. NA If oil based, what type? Synthetic, petroleum, etc. NA Additives to be used? NA Will closed loop system be used? 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 -If left in pit and plan to solidify what medium will be used? Cement, lime, sawdust NA -Landfill or offsite name/permit number? NA I certify that I understand and agree to the terms and conditions of the GENERAL WATER POLLUTION PERMIT issued on August 1, 2005, 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 Title Agent NOY 2 8 2022		*
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Company Official Title Agent NOV 2 8 2022 WV Department of Environmental Protection	RECEIVED	Cno
WV Department of Environmental Protection	Company Salara (-5)	
Environmental Protection		
Subscribed and sworn before me this 25th day of October , 20 22	<u>W</u> √ Department of Environmental Prote	of ection
/ / / / / / / / / / / / / / / / / / /	Subscribed and sworn before me this 25th day of October , 20 22	
Notary Public SIAILE OF WEST VIRGINIA Mark J Schall HG Energy LLC S260 DUPONT ROAD PARKLESBURG WV 25105	Notary Public Notary	

Operator's Well No. Ephraim Griffith 133

£	EGEND
Property Boundary	Diversion (COMMISSION OF THE PROPERTY OF THE P
Road = = = = = = = = = = = = = = = = = = =	Spring O
Existing Fence — X — X — X —	Wet Spot
Planned Fence/_/_/	Drain Pipe with size in inches
Stream 7 7 7	Waterway C+ C+ C+
Open Ditch	Cross Drain ////////////////////////////////////
Rock 48666	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	
9	
0.25	3.5
Proposed Revegetation Treatment: Acres Disturbed 0.25	Prevegetation pH
Lime 3 Tons/acre or to correct to pH _	6.5
Fertilizer (10-20-20 or equivalent) 10-20-20 lbs/ac	(500 ll)
	cre (500 lbs minimum)
MulchStraw 2Tons/acr	e
Seed]	Mixtures
	, N
Area I Seed Type Ibs/acre	Area II Seed Type lbs/acre
Tall Fescue 40	Tall Fescue 40
Tun r coouc	Ladino Clover 5
Ladino Clover 5	Ladillo Clovei 3
Sediment Control Plan Will Be In Effect	t At All Times
э.	
Attach:	eation
Drawing(s) of road, location, pit and proposed area for land applic	auton.
Photocopied section of involved 7.5' topographic sheet.	
	*
Wille Miller	
Plan Approved by: Muy w / 1000	
Comments:	
	Office of Oil and Gas
Title: Inspech Oule Cas	
Title: Inspire (cuerca)	Date: 11-7-22 NOV 2 8 2022
Field Reviewed? Lincoln Yes) No Environmental Protection

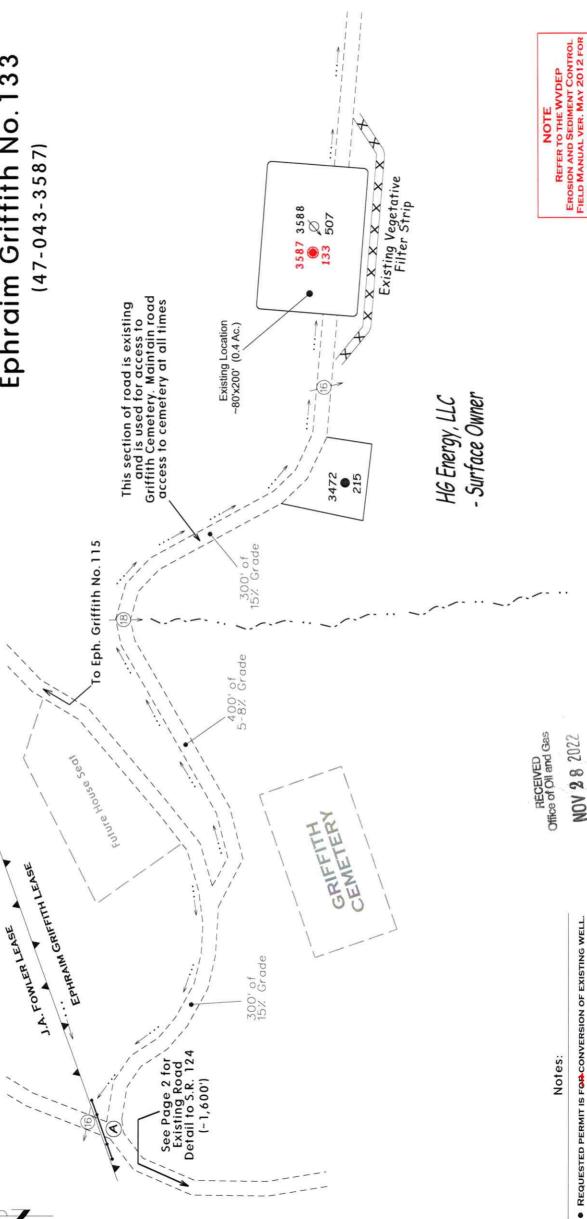
BMPs CONTROLLING EROSION AND

SEDIMENT FROM SOIL-DISTURBING

OPERATIONS.

Reclamation Plan For:

Ephraim Griffith No. 133



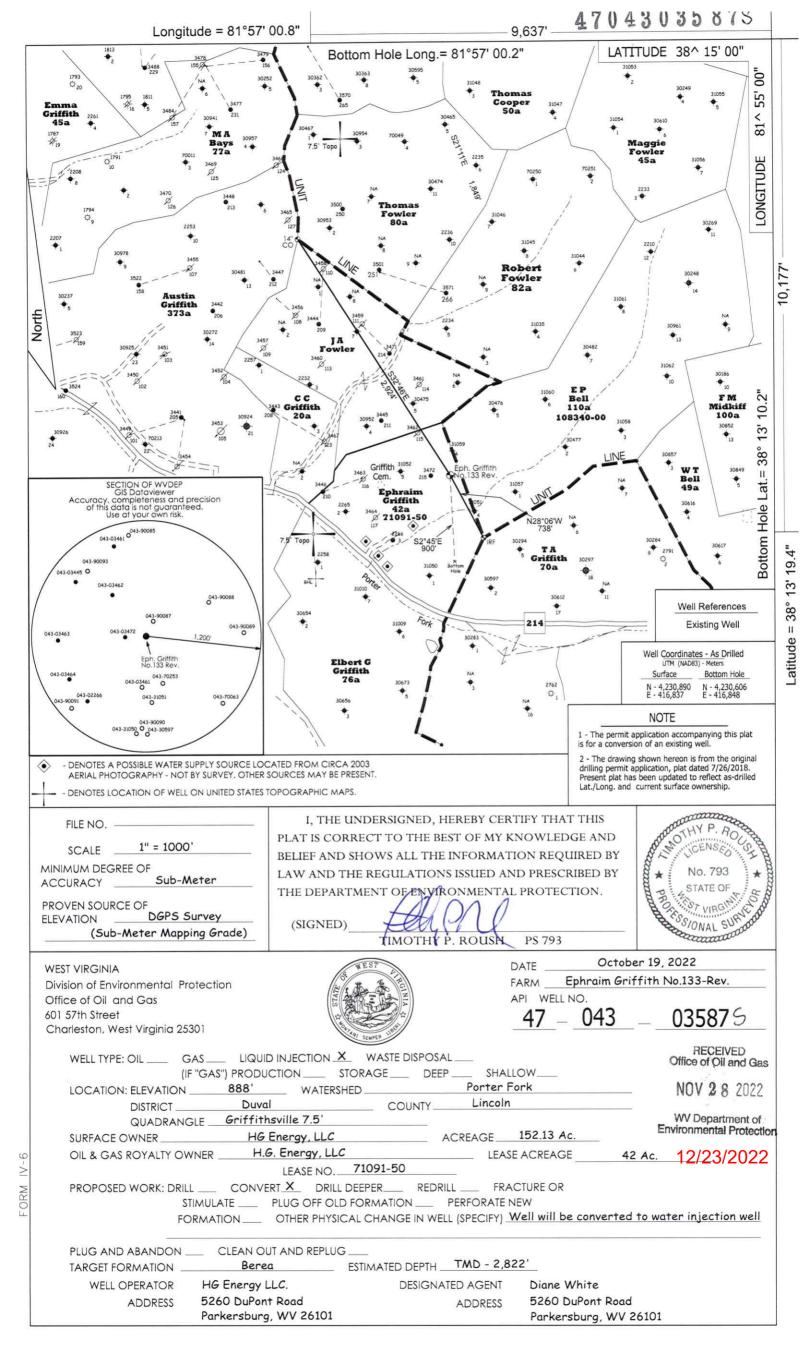
WV Department of Environmental Protection

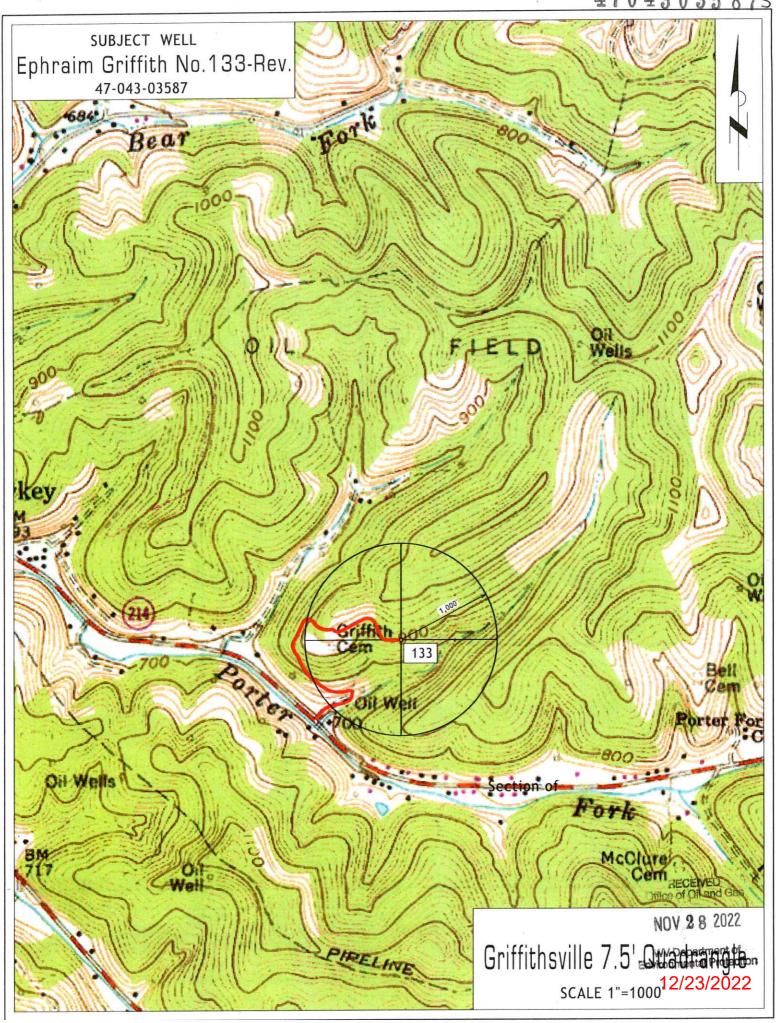
ALL DISTURBED AREAS WAL BE RE-VEGETATED AS OUTLINED ON FORM WW-9. No PIT WILL BE REQUIRED OR WELL CONVERSION.

ACCESS ROADS ARE EXISTING AND WILL BE MAINTAINED TO WVDEP STANDARDS

DRAWING NOT TO SCALEN

Note: Drawing not to Scale







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

October 25, 2022

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

RE:

Ephraim Griffith No. 133 (API 47-043-03587)

Duval District, Lincoln County

West Virginia

Office of Oil and G

NOV 2 8 20:

WV Department of Environmental Protection

Dear Mr. McLaughlin:

Enclosed are the Forms WW-3A, WW-3B, WW-9, WR-35, mylar of plat, reclamation plan and topo map for a permit to convert the above captioned shallow producing well to an injection well. The surface location is owned by HG Energy therefore a Notice to the Surface Owner wasn't needed. Our check in the amount of \$550 is attached.

If you have any questions regarding this application, please call me at 304-420-1119 or email at dwhite@hgenergyllc.com.

Very truly yours,

Diane White

Diane C. White

Enclosures

cc:

Terry Urban - WV DEP Inspector

CKH 652382 Am+\$550 Date 10/28/22



Kennedy, James P < james.p.kennedy@wv.gov>

Well work permit issued 4704303587

1 message

Kennedy, James P <james.p.kennedy@wv.gov> Mon, Dec 19, 2022 at 8:46 AM To: Diane White <dwhite@hgenergyllc.com>, Brian Warden

*Sprian Warden@wv.gov>, guybrowning@lincolncountywv.org, Andrew L Lockwood andrew.l.lockwood@wv.gov

To whom it may concern, a well work permit has been issued for 4704303587.

James Kennedy

WVDEP OOG

