

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, March 15, 2021 WELL WORK PERMIT Vertical / Re-Work

HG ENERGY, LLC 5260 DUPONT ROAD PARKERSBURG, WV 26101

Re: Permit approval for CB FERRELL 110 47-087-04754-00-00

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: CB FERRELL 110 Farm Name: MAY, TIMOTHY D. U.S. WELL NUMBER: 47-087-04754-00-00 Vertical Re-Work Date Issued: 3/15/2021

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. <u>Failure to adhere to the specified permit</u> 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.
- 2. 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.
- 8. 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.

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FORM WW-3 (B) 1/12



1) Date:	01/07/202	21				
2) Operator	's Well]	No.	C.E	3. Ferrell 110		
3) API Wel	I No.:	47		Roane	÷	047540
		State		County	-	Permit
4) UIC Per	mit No.	2R087	0000	5AP		

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

5) WELL TYPE:			n 🗸	_ /		tion (not storag		_ / _ W	aste Disposal
6) LOCATION:	Elevatio	-				1726 # 272	h Run	Ourdean	gle Looneyville 7.5'
o occurrent inter		Smithfie			Col	unty Roane	TED ACT		
7) WELL OPERA						8) DESIGNA			pont Road
Ade		60 Dupont I					Addres		urg, WV 26101
		arkersburg, V		0.0		INDOUTD	CONTR	and the second second	uig, wv 20101
9) OIL & GAS IN Name Joe Ta		R TO BE	NOTIFI	ED	_	10) DRILLIN Name	GCONTR	ACTOR	
Address 1478 C	laylick Road				-	Address			
Ripley,	WV 25271						_		
11) PROPOSED			Plug off o Other p	old form hysical o	ation change in v	/ Perfo			/ Stimulate Convert
12) GEOLOGIC 13) Estimated De	TARGET	FORMA	HON DE	atual da	ath of ovice			- Feet	
13) Estimated De	epth of Cor	npieted v	ven, (or a		pui oi exis	Feet	Salt		Feet
14) Approximate	water stra	ta deptns				_ reet	Salt _	1,00	
15) Approximate	coal seam	deptns:	NA		No				
16) Is coal being	mined in t	ne area?	I Comoti	1050	-	g Source	Estimated		
17) Virgin reserv	oir pressur	e in targe	at iorman	50	psi	g Source	Loundoa		psig (BHFP)
18) Estimated res 19) MAXIMUM	servoir frac	ture pres	Sure 20	DEDAT	IONIC. I	Jaluma nor hou	- 25 BBI	Bottom	
19) MAXIMUM	PROPOSI	CATTON	LOEMA	PERAL	TO PET	NIECTED IN	TUDING	ADDITIVE	S Fresh water, Produced water,
20) DETAILED bactericides, and o	IDENTIFI	CATION	OF MA	I EKIAL	S TO DE L	oil recovery	LUDING	ADDITIVE	
				water qualit	y and improve	on recovery.			REGEIVED
21) FILTERS (IF 22) SPECIFICA	ANY) G	annoge mie	ODICIDE	OTECT	TON AND	OTUER COR	OSION	ONTROL	ice of Oil and Gas
22) SPECIFICA	HONS FO	R CATH	ODIC PR	OTECT	ION AND	OTHER COR	COSIONC	I	AN 21 2021
23) CASING AND	TUDING	PROGRAM	M						AN 2 1-2021
	TOBING			000		TOOTLOF DI	TEDITAL	CEMENITIA	V Department PPS
CASING OR TUBING TYPE	Size	Grade	ECIFICATI Weight per ft.	New	Used	FOOTAGE IN For Drilling	Left In Well	OR SACKS (CU. FT.)	V Departn PACKERS onmental Protection
Conductor	11 5/8"	LS	NA		x	30'	30'	12	Kinds
Fresh Water	7"	LS	17	x	1.	506'	506'	CTS	Tension
Coal		1				1.	11.00	1.00	Sizes
Intermediate		17	1			1		1	2 3/8" x 4"
Production	4 1/2"	J-55	10.5	x		2631'	2631'	200 sks	Depths set
Tubing	2 3/8"	J-55	4.6	x		2400'	2400'		2300'
Liners		1					1000		Perforations 60
		1	1			1	1		Top Bottom
			1.5			1		1	2406' 2416'
						1			
24) APPLICAN	T'S OPER	ATING F	UGHTS V	vere acq	uired from	C B Ferrell et al	1.1.1		
by deed						/ dated	11/06/2014		of record in the

 Book
 Image
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03/19/2021

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 47 087 047	54 County ROA	NE	District SMITHFIE	LD
Quad LOONEYVILLE 7.5'		RRELL, C.B.	Field/Pool Name C	
Farm name MAY, TIMOTHY			Well Number 110	
Operator (as registered with the	LLO ENEDOW	LLC		
Address 5260 DuPONT RC	DAD City	PARKERSBURG	State WV	Zip 26101
As Drilled location NAD 83 Top hol	1005 1103	rilled plat, profile view, an M Eas	d deviation survey sting 475,638 M	
Landing Point of Curv			ting	
Bottom Ho	le Northing <u>4,285,234 N</u>	A Eas	ting_475,776 M	
Elevation (ft) 1,110'	_ GL Type of We	II DNew Existing	Type of Report	□Interim BFinal
Permit Type 📱 Deviated	🗆 Horizontal 🗆 Hori	zontal 6A 🛛 Vertical	Depth Type	🗆 Deep 📕 Shallow
Type of Operation 🛛 Convert	🗆 Deepen 🗆 Drill	🗆 Plug Back 🗆 Redr	illing 🗆 Rework	昌 Stimulate
Well Type 🛛 Brine Disposal	□ CBM □ Gas □ Oil □	Secondary Recovery DS	olution Mining 🗆 St	orage Sother Injection
Type of Completion 📕 Single		oduced □Brine □Gas		Other
Drilled with D Cable R	otary			
Drilling Media Surface hole Production hole 着Air □M			hole ∎Air ⊐Mud	I ■ Fresh Water □ Brine RECEIVED Office of Oil and Gas
Mud Type(s) and Additive(s) N/A				JAN 2 1 2021
				WV Department
				Environmental Protection
Date permit issued7/10		ommenced NA	Date drilling	
Date completion activities bega	an 7/23/18	Date completion act	ivities ceased	7/27/18
Verbal plugging (Y/N)	Date permission gra	nted	Granted by	
Please note: Operator is requir	ed to submit a plugging app	plication within 5 days of v	verbal permission to p	nug
Freshwater depth(s) ft	None	Open mine(s) (Y/N) of	lepths	None
Salt water depth(s) ft	1700'	Void(s) encountered		None
Coal depth(s) ft	None	Cavern(s) encountere		None
Is coal being mined in area (Y/	N)N			
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03/19/2021

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WR-35							Page $2_{of} 4_{int}$
Rev. 8/23/13							
API 47- 087	04754	Farm r	name_MAY, TI	MOTHY D.		Well number1	10
CASING STRINGS	Holc Size	Casing Size	Depth	New or Used	Grade wt/ft	Basket Depth(s)	Did cement circulate (Y/N) * Provide details below*
Conductor	12 1/4"	11 5/8"	30'	Used	LS		Sand In
Surface	8 3/4"	7"	506'	New	LS	64'	Y
Coal							
Intermediate 1			_				
Intermediate 2							
Intermediate 3		······					
Production	6 1/4"	4 1/2"	2631.35'	New	J-55		Y
Tubing							
Packer type and de	epth set						
Comment Details	Circulated Est. 25	sks to surface on 7" s	urface cement job. Cir	culated Est. 20 sks	to surface on 4 1/2	' cement job.	

CEMENT DATA	Class/Type of Cement	Number of Sacks	Slurry wt (ppg)	Yield (ft ³/sks)	Volume (ft ³)	Cement Top (MD)	WOC (hrs)
Conductor							
Surface	Reg Neat	130	15.6	1.18	153	Surface	8
Coal							
Intermediate 1							
Intermediate 2							
Intermediate 3						•	
Production	50:50 Pozmix	120/125	13.2/14.2	1.64/1.27	197/186	50'	8
Tubing							
Drillers TD (f				gers TD (ft) <u>265</u> g back to (ft) <u>N</u> #			
	tion penetrated Big h						
Plug back pro	icedure <u>wa</u>						· · · · · · · · · · · · · · · · · · ·
Check all wire	-	≝ caliper ≝ d ≝ neutron ≝ d	lensity =	deviated/directi gamma ray	📕 temp	erature DSC	nic Office of Contract Gas □ NHAN 21 2921
	⊐Yes ∎ No	Conventional	Sidewall				
DESCRIBE T 20 Centralizers every 88	THE CENTRALIZED from bottom on 4 1/2°, Centralizer p	R PLACEMENT	JSED FOR EA	CH CASING S	TRING		WV Depage and fragmental and the second
WAS WELL	COMPLETED AS S	HOT HOLE	Yes 🛎 No	DETAILS	<u> </u>		
WAS WELL	COMPLETED OPE	N HOLE? 🗆 Y	es 🛔 No	DETAILS			
WERE TRAC	ERS USED 🛛 Yes	з 🗷 No ТҮ	PE OF TRACE	ER(S) USED			

03/19/2021

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WR-35 Rev. 8/23/13		
API 47- 087 _ 04754	Farm name_MAY, TIMOTHY D.	Well number

Page <u>3</u> of <u>4</u>

_____Well number___110

PERFORATION RECORD

Stage No.	Perforation date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formation(s)
1	7/23/18	2406'	2416'	60	Big Injun
L					
				l	

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	7/27/18	2.8	1157	NA	684	0	12	2000 gals
								15% HCL
								RECENTED
								RECEIVED Office of Oil and Gas
								JAN 2 1 2021
							Env	W <u>Department of</u> ronmental Protection

Please insert additional pages as applicable.

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WR-35					Page <u>4</u> of <u>4</u>
Rev. 8/23/13			846NZ TH		
API 47- <u>087</u>	_ 04754	Farm r	name <u>MAY, H</u>	WUTHT D.	Well number 110
<u>PRODUCING I</u> Big Injun	FORMATION(<u>DEPTHS</u> 2122'- 2150'		382'- 2422' MD
Please insert ad	ditional pages a	s applicable.			
GAS TEST	🗆 Build up 🛛	Drawdown	🗆 Open Flow	0	IL TEST 🗆 Flow 🗆 Pump
SHUT-IN PRE	SSURE Surfa	ace	_psi Botto	m Hole	psi DURATION OF TESThrs
OPEN FLOW	Gas	Oil	NGL	۷	Vater GAS MEASURED BY
OT BATTE O	mcf		opd	_ bpd	bpd DEstimated DOrifice DPilot
LITHOLOGY/ FORMATION	TOP DEPTH IN FT NAME TVD	BOTTOM DEPTH IN FT TVD	TOP DEPTH IN FT MD	BOTTOM DEPTH IN FT MD	DESCRIBE ROCK TYPE AND RECORD QUANTITYAND TYPE OF FLUID (FRESHWATER, BRINE, OIL, GAS, H2S, ETC)
Sand/Shale	0	1402	0	1432	
Sand	1402	1618	1432	1692	
Shale	1618	1656	1692	1738	
Sand	1656	1824	1738	1738	Office of Oil and Gas
Shale	1824	1842	1954	1954	Office of Off and Gas
Sand	1842	1976	1977	2168	JAN 2 1 2021
Little Lime	1976	2036	2168	2236	
Pencil Cave	2032	2036	2236	2240	WV Department of
Big Lime	2036	2104	2240	2356	Environmental Protection
Keener	2104	2122	2356	2382	Dullad discritional 6 20° E a distance of 707'
Big Injun	2122	2150	2382	2422	Drilled directional S 39° E a distance of 797'
Shale	2150	2333	2422 2660	2660	
TD	2333		2000		
Please insert ad			<u> </u>		
Drilling Contra Address 11565	ctor Decker Drill State Route 676	шġ	City	Vincent	State OH Zip 45784
Logging Comp		International			
Address 777 No	rth River Avenue		City	Weston	StateZip _26452
Cementing Con	npany Universal	Services	City	Buckhannon	State WV Zip 26201
Address Hall Rd			•		
Stimulating Col	mpany Produc	ers Service Cor	р.		
Address 109 So	uth Graham Street		City	Zanesville	State OH Zip 43701
Please insert ad	ditional pages a	s applicable.			
Completed by	Roger Heldman				Telephone <u>304-420-1107</u>
Signature	for A	elda-	Title O	perations Mana	ger Date1/18

Submittal of Hydraulic Fracturing Chemical Disclosure Information

Attach copy of FRACFOCUS Registry

FORM WW-3 (A) 1/12



1)	Date:	January 7,	2021				
2)	Operato	r's Well	No.	CBFe	errell 110		
3)	API We	II No.:	47	-	087	-	04754
-			State	-	County	-	Permit
4)	UIC Per	mit No.	2R087	7000054	λP		

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,

5) Surface Own	ner(S) To Be Served	7) (a) Coal Operator
(a) Name	Timothy May	Name NA
Address	242 Edgle Fork Road	Address
	Spencer, WV 25276	
(b) Name		7) (b) Coal Owner(S) With Declaration Of Record
Address		Name NA
		Address
(c) Name Address		Address RECEIVED
Produces.		7) (a) Coal Lessee with Declaration Of Record JAN 2 1 7021
6) Inspector	Joe Taylor	7) (c) Coal Lessee with Declaration Of Record
Address	1478 Claylick Road	Name NA WAY
	Ripley, WV 25271	Address NA Way List of the Transmission of the
Telephone	304-380-7469	

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

- The Application For A Liquid Injection or Waste Disposal Well Work Permit on Form WW-3(B), which sets out the
 parties involved in the drilling or other work;
- (2) The plat (surveyor's map) showing the well location on Form WW-6; and
- (3) The Construction and Reclamation Plan on Form WW-9 (unless the well work is only to plug a well), which sets out the plan for erosion and sediment control and for reclamation for the site and access road.

The date proposed for the first injection or waste disposal is

20 21

THE REASON YOU HAVE RECEIVED THESE DOCUMENTS IS THAT YOU HAVE RIGHTS REGARDING THE APPLICATION WHICH ARE SUMMARIZED IN THE "INSTRUCTIONS" ON THE REVERSE SIDE OF THE COPY OF THE APPLICATION [(FORM WW-3(B)] DESIGNATED TO YOU. HOWEVER YOU ARE NOT REQUIRED TO TAKE ACTION AT ALL.

Take notice that under Chapter 22-6 of the <u>West Virginia Code</u>, the undersigned well operator proposes to file or has filed this Notice and Application and accompanying documents for a Well Work Permit with the Chief of the Office of Oil and Gas, West Virginia Department of Environmental Protection, with respect to a well at the location described on the attached Application and depicted on the attached Form WW-6. Copies of this Notice, the Application, the plat, and the Construction and Reclamation Plan 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 the mailing or delivery to the Chief.

The person signing this document shall make the following certification:

"I certify under penalty of law that I have personally examined and	Well Operator	HG Energy, LLC
am familiar with the information submitted in this document and all	Address	5260 Dupont Road
attachments and that, based on my inquiry of those individuals		Parkersburg, WV 26101
immediately responsible for obtaining the information, I believe that	By:	Diane White
the information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including	Its:	Agent
the possibility of fine and imprisonment.	Signature:	Diane li

03/19/2021

White

SENDER: COMPLETE THIS SECTION	COMPLETE THIS SECTION ON DELIVERY	- no contra
 Complete items 1, 2, and 3. Print your name and address on the reverse so that we can return the card to you. Attach this card to the back of the mailplece, or on the front if space permits. Article Addressed to: Timothy May 242 Edgle Fork Road Spencer WV 25276 	A. Signature X. Land D. Ag B. Received by (Printed Name) C. Date of Mathemathy D. Mathemathy D. Is delivery address different from item 1? Yes If YES, enter delivery address below: No	Idressee Delivery - 2) s
	Service Type Adult Signature Adult Signature Restricted Delivery Certified Mail Restricted Delivery	м

03/19/2021

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

January 7, 2021

Timothy May 242 Edgle Fork Road Spencer, WV 25276

RE: C. B. Ferrell No. 110 Smithfield District, Roane County West Virginia

Dear Mr. May:

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

Enclosures

SURFACE OWNER WAIVER

County Roane

Operator Operator well number HG Energy, LLC CB Ferrell 110

INSTRUCTIONS TO SURFACE OWNERS NAMED ON PAGE WW2-A / 3A

The well operator named on page WW-2A / 3A is applying for a permit from the State to do oil or gas well work. (<u>Note:</u> 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

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 FIFTEEN (15) 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.

<u>Comments must be in writing.</u> 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.

List of Water Testing Laboratories. The Office maintains a list of water testing laboratories which you can hire to test your water to establish water quality prior to and after drilling. Contact the Chief to obtain a copy.

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 Well Work Permit on Form WW2-A / 3A, and attachments consisting of pages 1 through _____ including a work order on Form WW-2B / 3A, a survey plat, and a soil and erosion plan, all for proposed well work on my surface land as described therein.

I further state that I have no objection to the planned work described in these materials, and I have no objection to a permit being issued on those materials.

FOR EXECUTION BY A NATURAL PERSON

FOR EXECUTION BY A CORPORATION, ETC.

04754	Signature	_ Date	Company Name By Its		Date
	Print Name				
				Signature	Date

03/19/2021

NW-9	API Number 47 - 87 - 0475	
2/15)	Operator's Well No. CB Ferr	ell 110
DEPARTMENT OF F	OF WEST VIRGINIA ENVIRONMENTAL PROTECTION CE OF OIL AND GAS	
FLUIDS/ CUTTINGS I	DISPOSAL & RECLAMATION PLAN	
Operator Name HG Energy, LLC	OP Code 494497948	
Watershed (HUC 10)_Rush Run	Quadrangle Looneyville 7.5'	
Do you anticipate using more than 5,000 bbls of water to c Will a pit be used? Yes No Vo If so, please describe anticipated pit waste: NA	ANY WELL EFFLUENT WILL B	NO V R CONTRINCO OFF SITE. GNM
Will a synthetic liner be used in the pit? Yes	No 🖌 If so, what ml.?	
Proposed Disposal Method For Treated Pit Waste	25:	
Land Application		
Underground Injection (UIC P	ermit Number)
Reuse (at API Number Off Site Disposal (Supply form	WW-9 for disposal location)	
Other (Explain No waste anticip	pated, should there be any fluids they'll be hauled for o	ff site disposal
Will closed loop system be used? If so, describe: <u>No</u>		
Drilling medium anticipated for this well (vertical and hor	izontal)? Air, freshwater, oil based, etc. NA	
-If oil based, what type? Synthetic, petroleum, et	te. NA	
Additives to be used in drilling medium? NA		RECEIVED
Drill cuttings disposal method? Leave in pit, landfill, rem	oved offsite, etc. NA	Office of C 3as
-If left in pit and plan to solidify what medium wi	ill be used? (cement, lime, sawdust) NA	JAN 2 1 2021
-Landfill or offsite name/permit number? <u>NA</u>		WV Departmental rotection
Permittee shall provide written notice to the Office of Oil : West Virginia solid waste facility. The notice shall be prov	and Gas of any load of drill cuttings or associated vided within 24 hours of rejection and the permitt	waste rejected at any ee shall also disclose

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 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 Signature Diane White	
Company Official (Typed Name) Diane White	12/m/
Company Official Title Agent	1-14-21

Subscribed and sworn before me this 7th	day of January	, 20 21	
Chle,		Notary Public	OFFICIAL SEAL NOTARY PUBLIC. STATE OF WEST VIRGINI MARK J SCHALL
My commission expires 11/2/2021			HG Energy LLC PO Box 5519, Vienna, W2 6106 Company Express November 2, 2021

1 (

Form WW-9

Operator's Well No. CB Ferrell 110

HG Energy, LL(С	C
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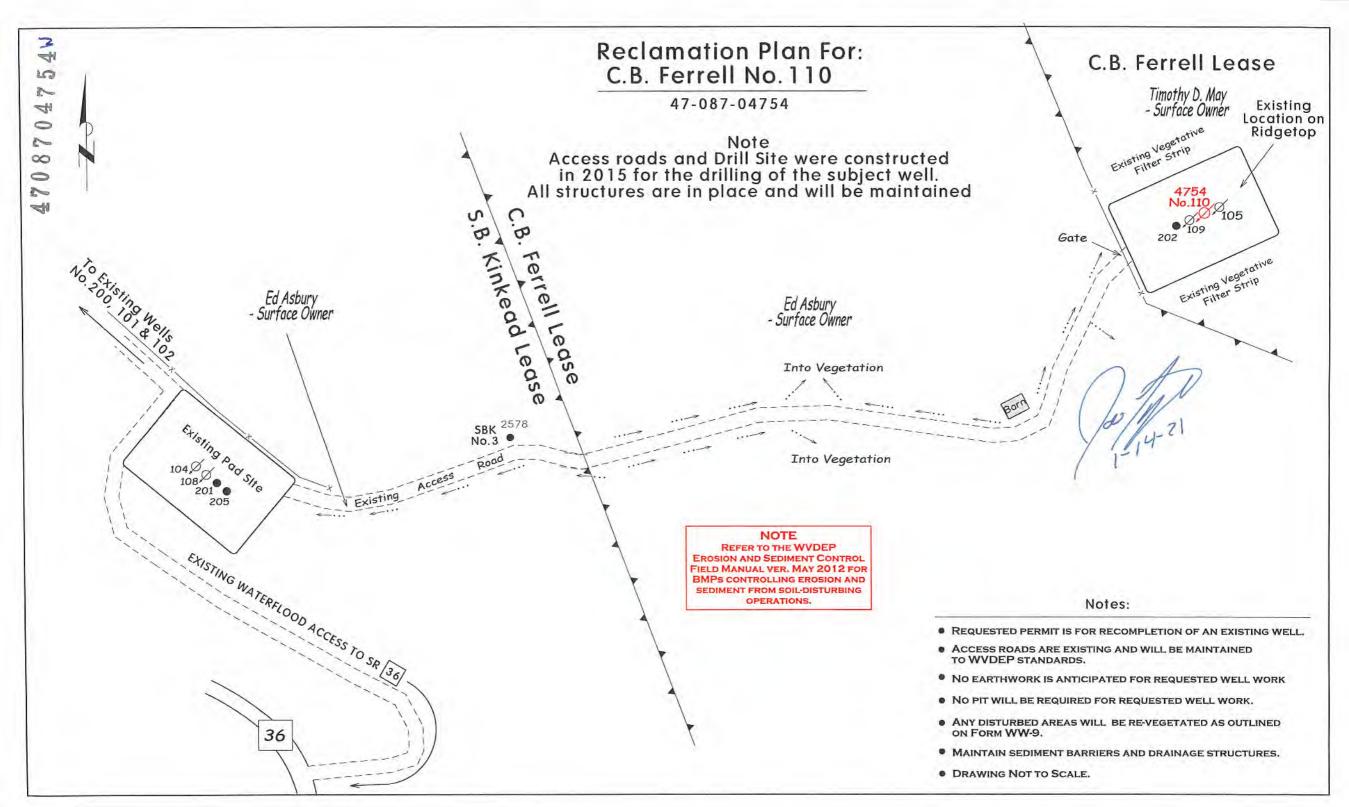
	Tons/acre or to correct	to pH	
Fertilizer type <u>10</u>	-20-20		
Fertilizer amount	500	lbs/acre	
Mulch Straw	2 ე	Cons/acre	
		Seed Mixtures	
Те	mporary	Perma	nent
Seed Type	lbs/acre	Seed Type	lbs/acre
all Fescue	40	Tall Fescue	40
adino Clover	5	Ladino Clover	5

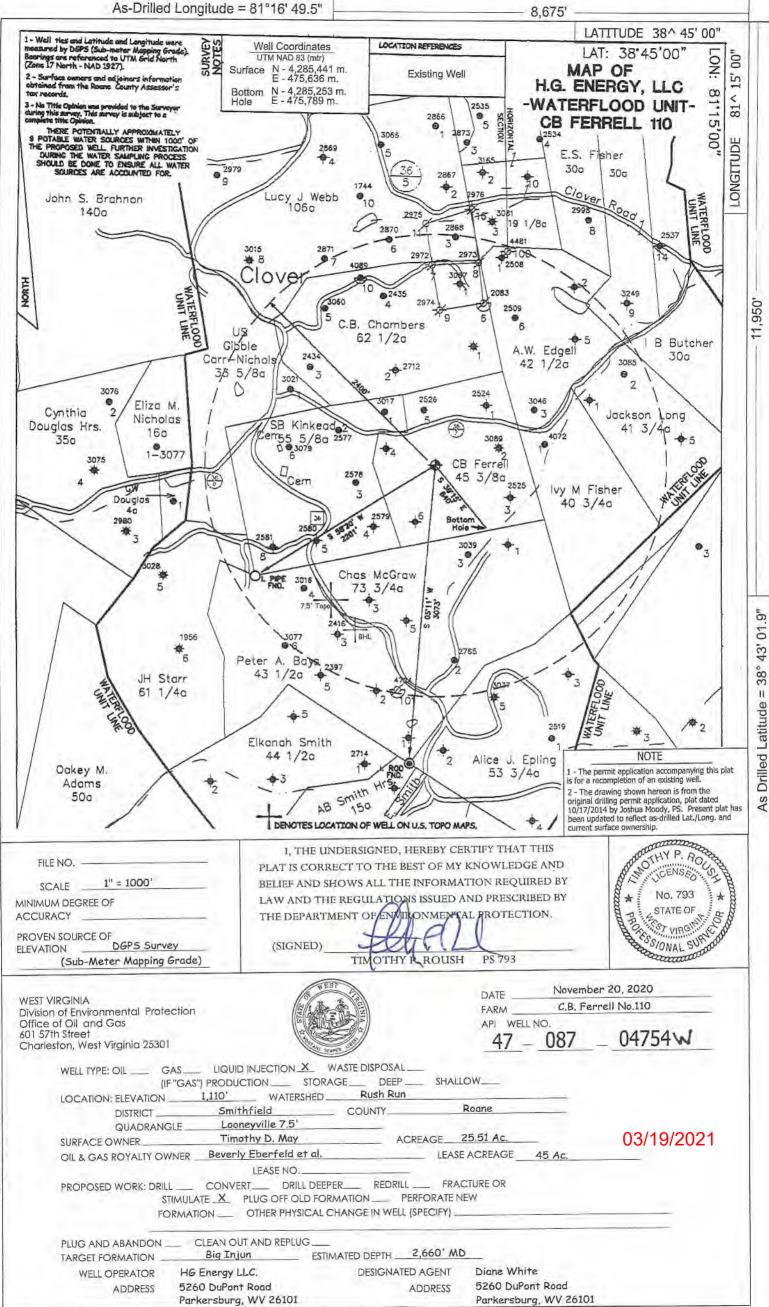
Attach:

Drawing(s) of road, location, pit and proposed area for land application (unless engineered plans including this info have been provided)

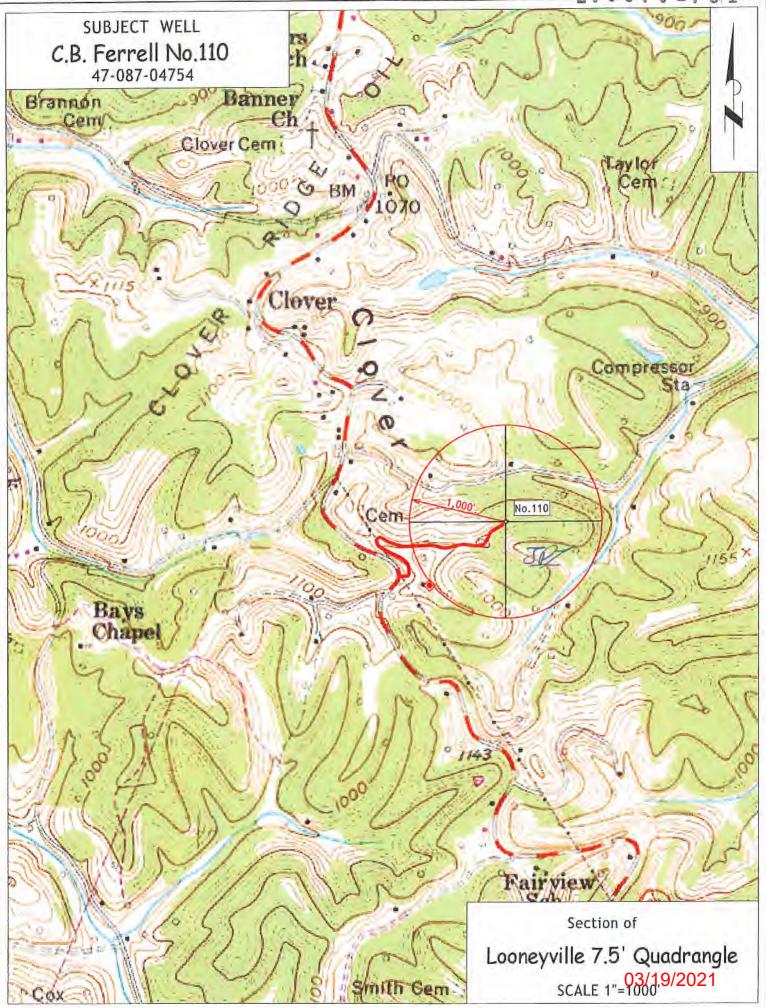
Photocopied section of involved 7.5' topographic sheet.

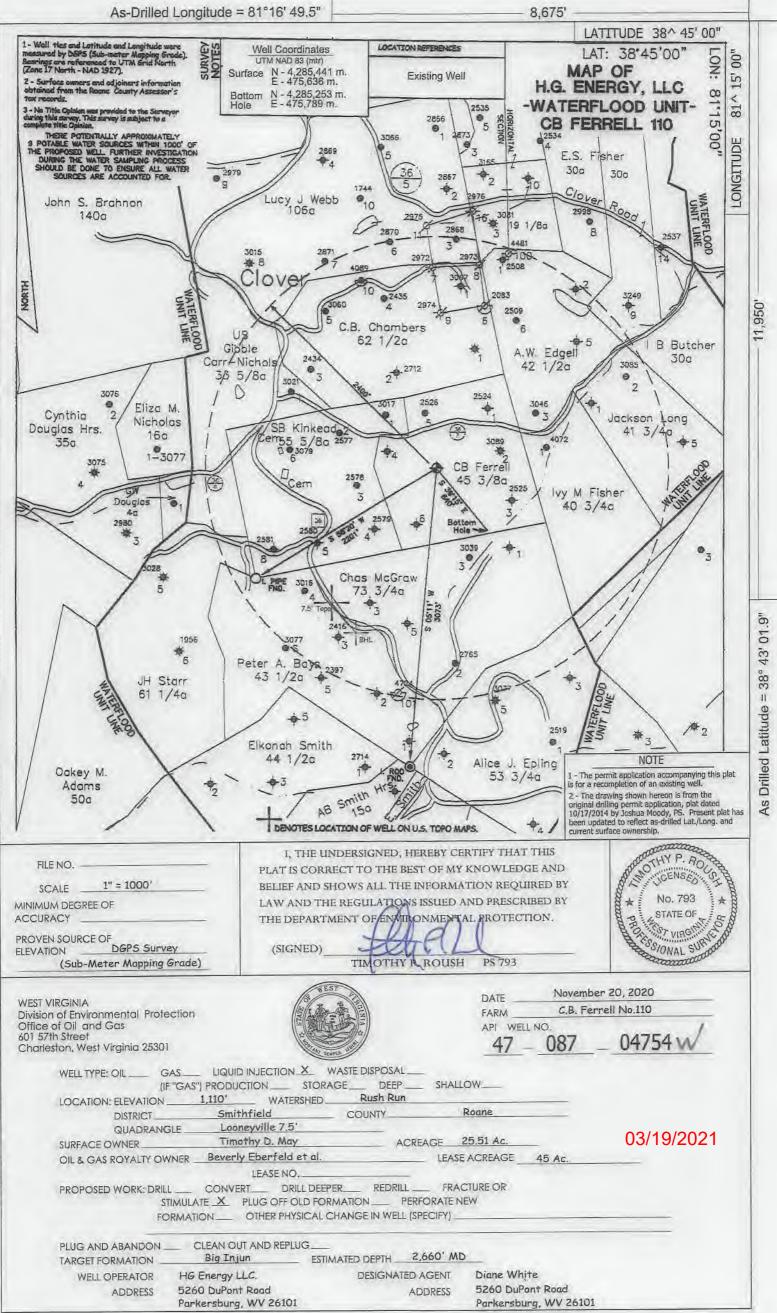
	RECEIVED Office of Charlet Gas
Plan Approved by:	JAN 2 1_2021
Comments:	WV Department of Environmentar Protection
Title: 006 Zaspecter. Date: 1-141-	- 51
Field Reviewed? (X) Yes () No	





2 NAC





FORM IV-6



HG Energy, LLC 5260 Dupont Road Parkersburg, WV 26101 (304) 420-1100 - Office (304) 863-3172 - Fax 87-04754R 4708704754J

January 7, 2021

Mr. Jeff McLaughlin WVDEP Division of Oil & Gas 601 57th Street Charleston, West Virginia 25304 Office of O'L and Gas

JAN 2 1 2021

WV Department of Environmental Protection

RE: C B Ferrell No. 110 (47-087-04754) Smithfield District, Roane County West Virginia

Dear Mr. McLaughlin:

Enclosed are Forms WW-3A, WW-3B, WW-9, mylar of plat, reclamation plan, topo map and copies of the certified mailing receipts for a permit to stimulate the above captioned injection well. Also enclosed is our check in the amount of \$550.00 to cover the associated permit fees.

Very truly yours,

Diane White

Diane C. White

Enclosures

CHEH 4891 Amts 18/21

cc: Timothy May – Certified Joe Taylor – DEP Inspector