

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

Monday, September 14, 2020 WELL WORK PERMIT Vertical / Re-Work

HG ENERGY, LLC 5260 DUPONT ROAD PARKERSBURG, WV 26101

Re:

Permit approval for CB FERRELL 105

47-087-04755-00-00

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 105

Farm Name: MAY, TIMOTHY D

U.S. WELL NUMBER: 47-087-04755-00-00

Vertical Re-Work

Date Issued: 9/14/2020



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.
- 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.

FORM WW-3 (B) 1/12



1) Date: 08/04/2020)					
2) Operator's Well N	lo.	CB F	Ferrell 105			
3) API Well No.:	47	-	Roane	-	04755	
	State		County	_	Permit	
4) UIC Permit No.	2R087	00005	JAP .			

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: 6) LOCATION:		id Injection: 1110'	on 🗸	/	-	ction (not stora	ge)	_ / w	Vaste Disposal
U) LOCATION.		: Smithfie	old.			unty Roane	JII Kuli	Oundran	igle Looneyville 7.5'
7) MITTI ODED		-			Cot	-	TED ACE		·
7) WELL OPER	_					8) DESIGNA		NT Diane W	
Ad	-	260 Dupont					Addres	S 5260 Du	pont Road RECEIVED
		arkersburg,						Parkersb	ourg, W 26101 Oil and Gas
9) OIL & GAS II	NSPECTO	R TO BE	NOTIFI	ED		10) DRILLIN	IG CONTR	ACTOR	ALIC Q a
Name Joe Ta	ıylor					Name			AUG 2 0 2020
Address 1478 0	Claylick Road					Address			
Ripley,	WV 25271						, , , , , , , , , , , , , , , , , ,	ı	WV Department of Environmental Protection
11) PROPOSED	WELL W		Drill Plug off o Other p				/ Red rate new fo	lrill	/ Stimulate / Convert
12) GEOLOGIC	TARGET	FORMA	TION Big	Injun		Depth	2288'	Feet (top) to 2296' Feet (bottom)
13) Estimated De					epth of exist	ing well): 25	10' TMD	Feet	
14) Approximate					_	Feet	Salt	1700'	Feet
15) Approximate		~	NA						
16) Is coal being		•	Yes		No				
17) Virgin reserv				n 1250	_ rio . psig	Source	– Estimated		
18) Estimated res					parg	, Source	Louinated		maia (DITED)
					TONIC. T	· . I	OF DDI	D - 44 1	psig (BHFP)
19) MAXIMUM									nole pressure 2400 psi
20) DETAILED							CLUDING	ADDITIVE	S Fresh water, Produced water,
bactericides, and c				vater quali	ty and improve	oil recovery.			
21) FILTERS (IF									
22) SPECIFICAT	TIONS FO	R CATH	ODIC PR	OTEC?	TION AND	OTHER COR	ROSION C	ONTROL	
23) CASING AND	TUBING I	PROGRAM	M						
CASING OR			ECIFICATI	ONIG		FOOTAGE IN	TEDVATO	CEMENT	DACKEDS
TUBING TYPE	Size	Grade	Weight	New	Used	For Drilling	Left In	FILL -UP	PACKERS
TODING TILE	Size	Grade	per ft.	INCM	Used	1 of Dining	Well	OR SACKS	
			por II.				44 CII	(CU. FT.)	
Conductor	11 5/8"	LS	NA		x	30'	30'	(00.11)	Kinds
Fresh Water	7"	LS	17	x		507'	507'	CTS	Tension
Coal	·		17		<u> </u>	307	307	010	Sizes
Intermediate	-	-							2 3/8" x 4"
	4.4/0"	1.55	40.5			0.4501	0.4501	000 -1	
Production	4.1/2"	J-55	. 10.5	X		2453'	2453'	200 sks	Depths set
Tubing	2 3/8"	J-55	4.6	X		2175'	2175'		2175'
Liners									Perforations
									Top Bottom
									2288' 2296'
24) APPLICANT	"S ODED	ATING P	IGHTS "	zere aco	uired from	Chb. Ferrell et a	1		
									of record in the
	/ 1					/ dated	11/00/2014	Dool- 40	
Roane			County Cle	erk s of	fice inlea	156		Book 16	Page440



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 <u>47</u> 087	_ 04755	County ROAN	E	District SMITHFI	ELD
Quad LOONEYVILL	E 7.5'		RELL, C.B.		
Farm name MAY, TIM	OTHY D.		,	Well Number 108	
Operator (as registered	with the OOG) H.G. ENERGY LI	_C		
Address 5260 DuPO	NT ROAD	City PA	RKERSBURG	State WV	Zip 26101
Landing Point	Top hole of Curve	Attach an as-drill Northing 4,285,444 M Northing Northing 4,285,522 M	E	and deviation survey asting 475,643 M asting 475,789 M	
Elevation (ft) 1,110'	GL	Type of Well	New DExisting	Type of Report	☐Interim ■Final
Permit Type 🚪 Devi	iated 🗆 H	orizontal 🗆 Horizon	ntal 6A 🛘 🗆 Vertical	Depth Type	□ Deep ∄ Shallow
Type of Operation □ C	onvert □I	Deepen 🛮 Drill 🖸	Plug Back 🗆 Red	Irilling Rework	□ Stimulate
Well Type Brine Dis	posal □ CBM	1 □ Gas □ Oil ■ Se	condary Recovery 🛚	Solution Mining St	torage Other
Type of Completion ■ Drilled with □ Cable Drilling Media Surface Production hole ■ Air Mud Type(s) and Addit N/A	昌 Rotary e hole	· □ Mud	nter Intermediat		□ Other
Date permit issued					ceased 2/12/13
Verbal plugging (Y/N)					RECEIVED
Please note: Operator is			,		AUG 2 0 2020
Freshwater depth(s) ft		None	Open mine(s) (Y/N)	denths	Environmental Protection None
Salt water depth(s) ft		700'	Void(s) encountered	,	None
Coal depth(s) ft	N.1.	ne		red (Y/N) depths	None
s coal being mined in ar		N			Reviewed by:
					307

WR-35									Page 2_of 4_
Rev. 8/23/13 API 47-087	04755	Farm na	_{ime_} MAY, TIN	MOTHY D.		We	ll number 10	5	
CASING STRINGS	Hole	Casing Size		New or Used	Grade wt/ft		Basket	Did ce	ment circulate (Y/ N) vide details below*
Conductor	Size 12 1/4"	11 5/8"	Depth 30'	Used	T	LS	Depth(s)	T	Sand In
Surface	8 3/4"	7"	507'	New		LS	64'	+	Y
Coal	1 00,4			11011	 				
Intermediate 1				,				1	
Intermediate 2								1	
Intermediate 3									
Production	6 1/4"	4 1/2"	2453.15'	New		J-55		1	Y
Tubing				· · · · · · · · · · · · · · · · · · ·				1	
Packer type and d	epth set		L		L				
CEMENT	Circulated Est. 25 sk	s to surface on 7" surface		, ,	'ield	Volume	Ceme		woc
DATA Conductor	of Cement	of Sacks	wt (ppg	g) (ft	³/sks)	(ft.³)	Top (I	AD)	(hrs)
Surface	5 11 1		450		10	450	Cunfe		8
Coal	Reg Neat	130	15.6		.18	153	Surfa	ice	0
Intermediate 1									-
Intermediate 2									•
Intermediate 3									
Production	50:50 Pozmix	100/125	13,2/14.	2 16	4/1.27	164/186	66		8
Tubing	30.30 F02IIIX	100/120	13.2714.	1.0	7/1.2/	104/100	,		
		<u>-</u> L							
Drillers TD (ft)				Loggers T					
-	tion penetrated _	lig Injun		Plug back	to (ft) <u>N/</u>	1			
Plug back prod	cedure N/A		···					HE RE	CEIVED
								riice of	CEIVED Oil and Gas
Kick off depth	(ft) 600'							AUG 9	2 0 2020
Check all wirel	ine logs run	■ caliper ■ neutron	■ density ■ resistivity	₫ deviate		onal Bi			ertment or eal Protection
Well cored □	Yes 🖪 No	Convention	nal Sidew	all	W	ere cutting	s collected	Yes (D No
	HE CENTRALIZ om bottom on 4 1/2°, Centraliz		NT USED FOR	REACH CA	SING S	TRING _			
								·	
WAS WELL C	OMPLETED AS	S SHOT HOLE	□Yes ∄ ì	No DE	TAILS		•		
WAS WELL C	OMPLETED OF	PEN HOLE?	□ Yes 🖪 No	DETA	AILS _				
WEDE TO ACE	roe Herro - N	Zes A No	TVDE OF TD	ACER(S) I	ISED				

WR-	35
Rev.	8/23/13

Page 3 of 4

API	47.	087	_	04755

Farm name MAY, TIMOTHY D.

_Well number___105

PERFORATION RECORD

Stage No.	Perforation date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formation(s)
1	3/23/15	2288'	2296'	32	Big Injun
	-				

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	3/26/15	5	551	1751	606	2,500	149	
						1		
		•					RECEI	(ED
							Office of Oil	and Gas
							AUG 2 0	1
							Auu Z U	2020
							WV Depart	mant of
						En	WV Depart vironmental	Protection
L								

Please insert additional pages as applicable.

WR-35 Rev. 8/23/13										Page 4	_of_4
	7_04755	Farm	name MAY, 7	TIMOTHY I),	Well	numbe	105	***************************************		
PRODUCING	FORMATION	<u>((S)</u>	DEPTHS								
Big Injun			2133'- 2166'	TT TO	2270'- 2308') ATT					
Dig trijati		of the second se	2100-2100	IVD .	2210-2000	IVIL)				
											
											
Please insert ac	iditional pages	as applicable.	P		Walter Commencer of the						
	- D-11	- D I	- O TI	,	on mode	mi	ъ				
GAS TEST	Build up	i Drawdown	□ Open Flow	(JIL TEST D.	Flow	□ Pump				
SHUT-IN PRE	SSURE Sur	face	_psi Botte	om Hole	psi	DURA	TION C	F TES	T	hrs	
OPEN FLOW	Gas mc	Oil fpd	NGL bpd	_ bpd	Water bpd	GAS I	MEASU mated	RED I	BY fice	□ Piḷot	
LITHOLOGY/		BOTTOM	TOP	воттом							
FORMATION	DEPTH IN FT	DEPTH IN FT	DEPTH IN FT		T DESCRIBE						
Cond/Cholo	NAME TVD	TVD 1294	MD	MD 1314	TYPE OF FL	JUID (FRE	SHWAT	ER, BRI	NE, OII	., GAS, H ₂ S, I	ETC)
Sand/Shale	0		0								
Sand	1294	1494	1314	1533		·					
Shale	1494	1538	1533	1568	_						
Sand	1538	1566	1568	1612							
Shale	1566	1682	1612	1744	<u> </u>			- R	ECEIV	ED and Gas	
Sand	1682	1992	1744	2104	_			Jilice	of Oil	and Gas	
Little Lime	1992	2032	2104	2150			***************************************	ΔIIG	9.0	2020	
Pencil Cave	. 2032	2034	2150	2154	_			7100	A U	2.020	
Big Lime	2034	2118	2154	2250				WVD	epartn	lent of	
Keener	2118	2133	2250	2270		rilled dired	En	/ironm	ental F	ent of Protection	
Big Injun	2133	2166	2270	2308	- D	rilled alred	ctional in	59°E a	distanc	6 01 9 15	
Shale	2166	2348	2308	2510		-					
TD	2348		2510		-						
Please insert ad	ditional pages a	s applicable.									
Orilling Contract Address 11565 S	State Paulo 676	iii ig	G''	Vincent		04.7	ОН	C71	15781		
Address 11303 c	date Notice 070		City	Vincent	with the same of t	State		Zip	45784		
Logging Compa	ny Weatherford	International									
Address 777 Nor	th River Avenue		City	Weston		State	WV	Zip	26452		
			-								
Cementing Con	ipany Universal	Services							00'004		
Address Hall Rd			City	Buckhannon		_State		_ Zip	26201		
Stimulating Cor	nnens Produc	ers Service Cor	n.								
Address 109 Sou	ith Graham Street	0,0 00,1,00 00,	City	Zanesville		State	ОН	7in	43701		
Please insert add			City			51410	•	zi.p			
						004.400	X40=				
Completed by	Koger Heldman	11	Et d. O	porations Me-	Telephone	304-420	-1107	2/15			
Signature /	Showa		Title O	perations Mana	ıyeı		Date 4/	4/10	,		
Submittal of Hv	draulic Fracturi	ng Chemical F	isclosure Info	mation	Attach conv of	FRACE	COCUS	Regist	rv		

507

FORM WW-3 (A) 1/12



1) Date:	August 4, 20	20					
2) Operator	's Well N	lo.	C. B. F	errell 105			
3) API Well	l No.:	47	-	087	-	04755	
	-	State		County	,	Permit	
A) ITTC Down	it NIo			_			

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 Ow(a) NameAddress(b) NameAddress	mer(S) To Be Served Timothy D. May 242 Edgle Fork Road Spencer, WV 25276	7) (a) Coal Name Address 7) (b) Coal Name Address	NA	Declaration Of Record			
(c) Name Address 6) Inspector Address Telephone	Joe Taylor 1478 Claylick Road Ripley, WV 25271 304-380-7469	_ Name _ Address	Lessee with Decl	aration Of Record WV Department of Environmental Protection			
TO THE PERSONS NAMED ABOVE: You should have received this form and the following documents (1) 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 20 THE REASON YOU HAVE RECEIVED THESE DOCUMENTS IS THAT YOU HAVE RIGHTS REGARDING THE							
THE APPLICA ACTION AT A Take notice tha Notice and Ap West Virginia Application an and Reclamatic	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 West Virginia Code, 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.						
am familiar wit attachments an immediately re the information are significant	The person signing this docume penalty of law that I have personally example the information submitted in this documed that, based on my inquiry of those individually sponsible for obtaining the information, I but is true, accurate and complete. I am awar penalties for submitting false information, of fine and imprisonment.	nined and ent and all duals believe that re that there	~~~	g certification: HG Energy, LLC 5260 Dupont Road Parkersburg, WV 26101 Diane White Agent Diane White			



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

August 4, 2020

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

RE:

C. B. Ferrell No. 105

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.

RECEIVED
Office of Oil and Gas

Very truly yours,

Diane White

AUG 2 0 2020

WV Department of Environmental Protection

Diane C. White

Enclosures

7019	2280 0000 1287 1402
Sent To Trimo+My D. May Street and Apt. No., or PO Box No. 2 42 Edgle Fork Road City, State, 21948 Spancer MV 25276 PS Form 3800, April 2015 PSN 7530-02-000-5047 See Reverse for Instructions	U.S. Postal Service CERTIFIED MAIL® RECEIPT Domestic Mail Only For delivery information, visit our website at www.usps.com®. Certified Mail Fee Starta Services & Fees (check box, add fee as appropriate) Return Receipt (electronic) Return Receipt (electronic) Return Receipt (electronic) Return Receipt (electronic) Adult Signature Required Adult Signature Required Adult Signature Restricted Delivery \$

#

AUG 2 0 2020

With Importment of Environmental Protection

Date

Signature

WW-2A / 3A Surface Waiver

04755

Print Name

		SURFACE OV	VNER WAIVER	
County	Roane	Oper	ator ator well numb	HG Energy, LLC er C. B. Ferrell 105
	INSTRUCTIO	NS TO SURFACE OW	NERS NAMED O	N PAGE WW2-A / 3A
(Note: If the siname appeared you may be the work permits a	urface tract is owned ed on the Sheriff's tax ie only owner who will are valid for 24 months immediately if you known NOTE:	by more than three pers ticket on the land or be actually receive these . If you do not own any	cons, then these cause you actual materials.) See (interest in the suite notify the well of RED TO FILE AN	
Chief, Office o Department of 601 57 th St. SE Charleston, W	Environmental Protec	tion		
operator files it be filed in person be sure of the handling. If you the planned we Comm well operator's from the application The C 1) The 2) The 3) Do 4) The 5) The me If you	nd methods for filing his Application. You he son or received in the se date. Check with you have been contacted ork described in these nents must be in writing and and well numbered to the proposed well work he soil erosion and second proposed well work he applicant has compore of the rules promulwant a copy of the	ave FIFTEEN (15) DAY mail by the Chief's office your postmaster to ensured by the well operator a materials, then the permeting. Your comments near and the approximate other documents, such as deny or condition a well will constitute a hazard filment control plan is not publicly owned lands or fails to protect fresh wat nitted a substantial violating the condition of the condition of the control plan is not publicly owned lands or fails to protect fresh wat nitted a substantial violating the condition of the co	S after the filing of a by the time stature adequate de and you have signated in the property of the property of the property of the safety of persources; er sources or supation of a previou, and has failed to	name, address and telephone number, the oposed well site including district and county or photographs to support your comments. d on comments on the following grounds: ersons. ctive;
request a cop	y from the Chief. f Water Testing Labouter to establish water	pratories. The Office m	aintains a list of v drilling. Contact t	vater testing laboratories which you can hire the Chief to obtain a copy.
Application for work order on as described to I further	by state that I have re a Well Work Permit of Form WW-2B / 3A, a s herein.	ad the instructions to su on Form WW2-A / 3A, ar survey plat, and a soil ar objection to the planned	rface owners and attachments cond erosion plan, a	that I have received copies of a Notice and consisting of pages 1 through including a lill for proposed well work on my surface land in these materials, and I have no objection to
FOR EXECUT	TION BY A NATURAL	PERSON		EXECUTION BY A CORPORATION, ETC. RECEIVED Office of Oil and Gas
		Date	Company Name	AUG 2 0 2020
04755	Signature		By Its	WV Department of Date Environmental Protection

WW-2B1	
(5-12)	

Well	No.	C. B. Ferrell 105	

West Virginia Department of Environmental Protection Office of Oil and Gas

NOTICE TO SURFACE OWNERS

The well operator named below is preparing to file for a permit from the state to drill a new well. Before a well work permit can be filed with the Chief of the Office of Oil and Gas, the well operator is required to have given notice of the right to request water well or spring analytical testing. This notice shall be given to the owners or occupants of land which have a water well or spring being utilized for human consumption, domestic animals, or other general use and which is located within 1000 feet of the proposed well site.

With this form, the operator is giving you notice of your right to request analytical testing. The operator is required to sample and analyze the water wells or springs of all owners or occupants who request it. Therefore, if you wish to have your water well or spring tested, contact the operator named below.

All sampling shall be completed prior to drilling. Within thirty (30) days of the receipt of such sample analyses the operator shall submit the results to the Chief of the Office of Oil and Gas and to the owners or occupants who may have requested them.

Be advised, you have the right to sample and analyze any water supply at your own expense.

Listed below is the laboratory chosen by operator to perform analysis, and contactor chosen to collect sample.

Sampling Contractor Sturm Analytical Lab	
Office of Oil and Gas	
Well Operator HG Energy, LLC	
Address 5260 Dupont Road WV Department of Environmental Protection	
Telephone 304-420-1119	

FOR OPERATOR'S USE ONLY: Below, or on an attached page, list those persons which were given this notice. Place an asterisk beside the one(s) that contacted you and requested sampling and analyses. If there were no requests made, indicate by underling which one you have selected to sample and analyze. If there are no water wells or springs within 1000 feet of the proposed site, the Chief may require the operator to test wells up to 2000 feet from the proposed site.

* No+ Applicable

WW-9 (2/15)

API Number	47 -	87	-	04755	
_					_

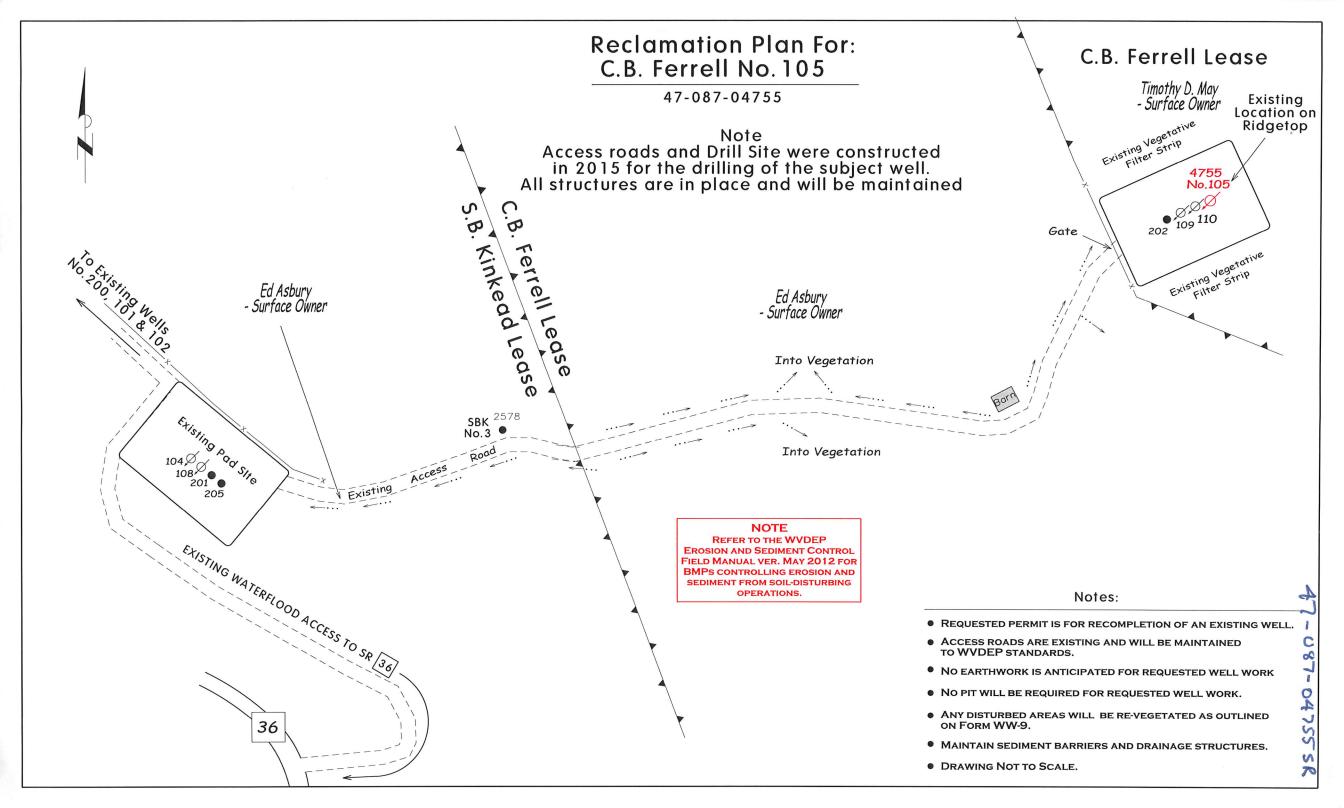
Operator's Well No. CB Ferrell 105

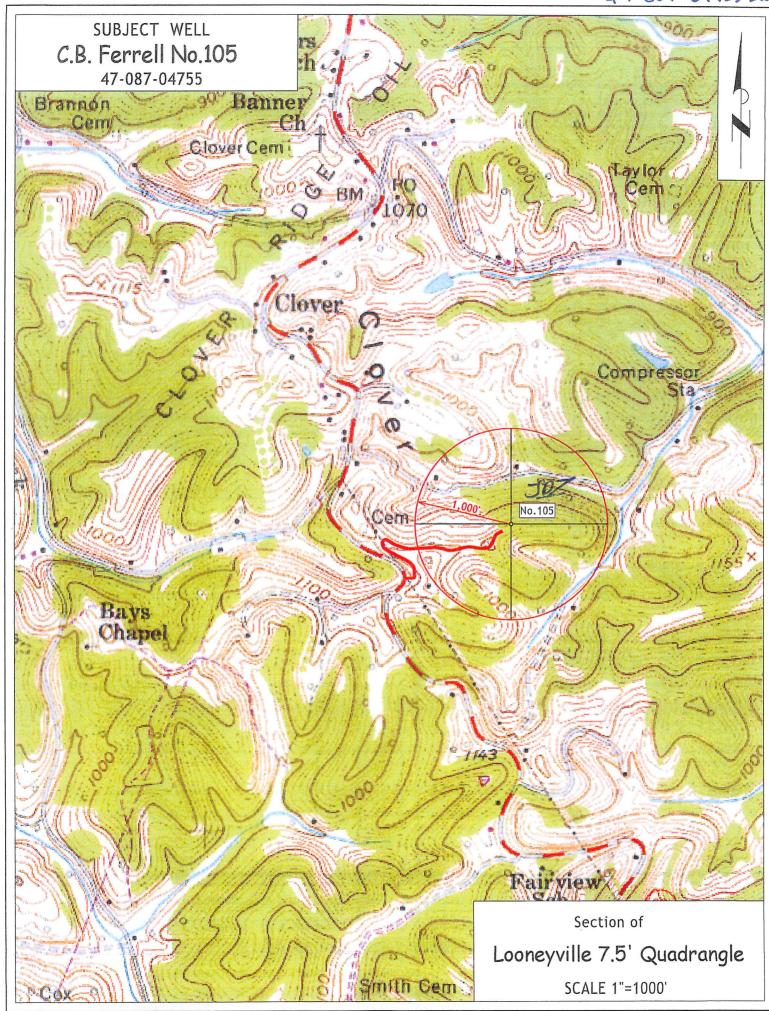
STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION OFFICE OF OIL AND GAS

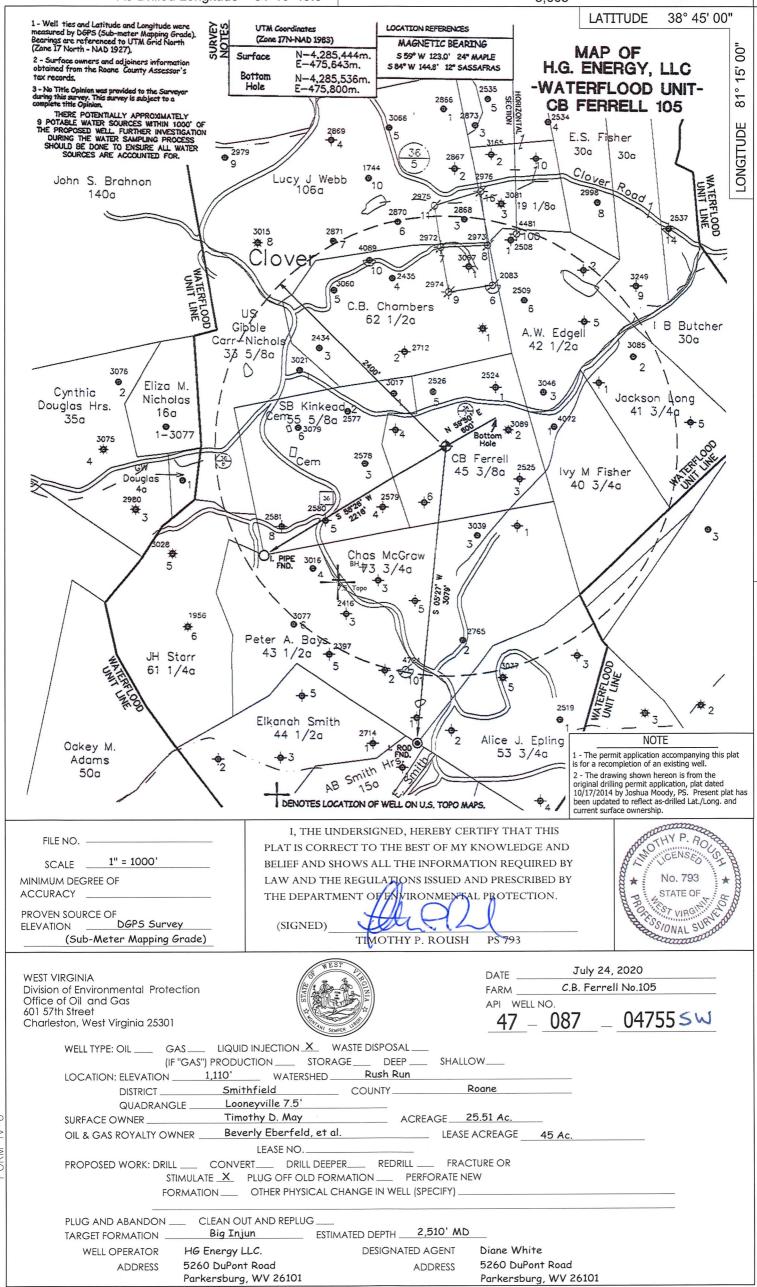
FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

O V V HG Energy II C	OD C-1- 404497948
Operator Name HG Energy, LLC	
Watershed (HUC 10) Rush Run	
Do you anticipate using more than 5,000 bbls of water to complete	the proposed well work? Yes No V
Will de pit de disea. Tes Tro	TANKS BEFORE DISPOSING OFF-SITE
If so, please describe anticipated pit waste: NA	914
•	No If so, what ml.?
Proposed Disposal Method For Treated Pit Wastes:	
Land Application)
Reuse (at API Number	umber)
Off Site Disposal (Supply form WW-9	for disposal location)
Other (Explain No waste anticipated, sho	ould there be any fluids they'll be hauled for disposal
Will closed loop system be used? If so, describe: No	
Drilling medium anticipated for this well (vertical and horizontal)?	Air, freshwater, 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 offs	site, etc. NA
-If left in pit and plan to solidify what medium will be use	ed? (cement, lime, sawdust)_NA
-Landfill or offsite name/permit number? NA	
Permittee shall provide written notice to the Office of Oil and Gas	
West Virginia solid waste facility. The notice shall be provided with where it was properly disposed.	thin 24 hours of rejection and the permittee shall also disclose
on August 1, 2005, by the Office of Oil and Gas of the West Virgin provisions of the permit are enforceable by law. Violations of an law or regulation can lead to enforcement action. I certify under penalty of law that I have personally exapplication form and all attachments thereto and that, based of	ry term or condition of the general permit and/or other applicable camined and am familiar with the information submitted on this on my inquiry of those individuals immediately responsible for accurate, and complete. I am a life that there are significant of fine or imprisonment.
Company Official Signature Diane White	AUG 2 0 2020
Company Official (Typed Name) Diane White	WV Department of Environmental Protection
Company Official Title Agent	
• •	
Subscribed and sworn before me this 4th day of Augus	st, 20_20
Cassidy A. Box	Notary Public
My commission expires 7/31/2022	OFFICIAL SEAL STATE OF WEST VIRGINIA NOTARY PUBLIC
	CASSIDY A. BOARDMAN 5301 13th Ave Vienna, WV 26 My Commission Expires July 31

	0.1		
Proposed Revegetation Treatm		Prevegetation	on pH
Lime3	Tons/acre or to correct to pH	6.5	
Fertilizer type10-	20-20		
Fertilizer amount	500 lbs/	acre	
Mulch_Straw	2Tons/ac	re	
	Seed	<u>Mixtures</u>	
Tem	nporary	Pe	rmanent
Seed Type	lbs/acre	Seed Type	lbs/acre
Tall Fescue	40	Tall Fescue	40
Ladino Clover	5	Ladino Clover	5
Attach: Drawing(s) of road, location, p provided)	Plan will be in effect at a		ns including this info have
Attach:	oit and proposed area for land applied 7.5' topographic sheet.		ns including this info have
Attach: Drawing(s) of road, location, porovided) Photocopied section of involve	oit and proposed area for land applied 7.5' topographic sheet.		ns including this info have
Attach: Drawing(s) of road, location, porovided) Photocopied section of involve	oit and proposed area for land applied 7.5' topographic sheet.		ns including this info have
Attach: Drawing(s) of road, location, porovided) Photocopied section of involved Plan Approved by:	oit and proposed area for land applied 7.5' topographic sheet.		RECEIVED Office of Oil and Gas
Attach: Drawing(s) of road, location, porovided) Photocopied section of involved Plan Approved by:	oit and proposed area for land applied 7.5' topographic sheet.		Office of Oil and Gas AUG 2 0 2020
Attach: Drawing(s) of road, location, porovided) Photocopied section of involve	oit and proposed area for land applied 7.5' topographic sheet.	ication (unless engineered plan	Office of Oil and Gas AUG 2 0 2020
Attach: Drawing(s) of road, location, porovided) Photocopied section of involve	oit and proposed area for land applied 7.5' topographic sheet.	ication (unless engineered plan	RECEIVED Office of Oil and Gas AUG 2 0 2020 WV Department of Environmental Protection









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

August 4, 2020

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

RE:

C. B. Ferrell No. 105 (API 47-087-04755)

Smithfield District, Roane County

West Virginia

RECEIVED Office of Oil and Gas

CYHUNOS SSONO Pronte Mino Doite Mino

AUG 2 0 2020

Dear Mr. McLaughlin:

WV Department of Environmental Protection

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 an injection well. Also enclosed is our check in the amount of \$550.00 to cover the associated permit fees.

Very truly yours,

Diane C. White

Enclosures

cc:

Timothy D. May - Certified

Joe Taylor – Inspector

Diane White