

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

Friday, February 5, 2021 WELL WORK PERMIT Vertical / Re-Work

HG ENERGY, LLC 5260 DUPONT ROAD

PARKERSBURG, WV 26101

Re: Permit approval for EDNA MAY 154

47-043-03482-00-00

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:

Farm Name: JOHNSON, J., LOVEJOY

U.S. WELL NUMBER: 47-043-03482-00-00

Vertical Re-Work
Date Issued: 2/5/2021

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: 10/30/202	0				
2)	Operator's Well 1	No.	Edn	a J. May 154		
3)	API Well No.:	47	- 5,	Lincoln	1,20	03482
		State	-	County		Permit
4)	UIC Permit No.	UIC2I	R0430	2AP		

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

	District:	-			Cor	unty Lincoln			gle Griffithsville 7.5'
) WELL OPERA						8) DESIGNA			
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		rkersburg, V					a covern		urg, WV 26101
OIL & GAS IN		R TO BE	NOTIFIE	ED		10) DRILLIN			Laf Damit
ame Terry U					_	The second second	Be Determined	Upon Approval	tor Permit
	ox 1207 nin, WV 2504				_	Address			
Clender	IIII, VVV 25040				/ Drill d		/ Rec		/ Stimulate 🗸
2) GEOLOGIC 7 3) Estimated Dep 4) Approximate 5) Approximate 6) Is coal being 1	pth of Con water strat coal seam mined in th	FORMA' npleted W a depths: depths:	TION Ber Vell, (or a Fre 587' - 5 Yes	hysical orea ctual de sh No	change in v	well (specify) Depth ting well):276 Feet	2640' Salt _	Feet (top Feet 1160'	Feet
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1) FILTERS (IF 2) SPECIFICAT 3) CASING AND CASING OR	ervoir frac PROPOSE DENTIFIC ner chemicals ANY) _Ca TONS FOI TUBING P Size 11 5/8" 7" 4 1/2"	ture press ED INJEC CATION as needed to entridge filte R CATH ROGRAN SPI Grade LS LS J-55	Sure 265 CTION OF MAT OF MAT TO maintain w This ODIC PR M ECIFICATI Weight per ft. 17# 10.5#	PERAT ERIAL OTECT ONS New	S TO BE IT y and improve TON AND	Volume per hou NJECTED, INcoll recovery OTHER COR FOOTAGE IN For Drilling 30.0' 636'	ROSION CONTERVALS Left In Well 30.0' 636'	CEMENT FILL, -UP OR SACKS (CU. FT.) Sand in CTS	PACKERS Kinds Sizes 2.375" Depths set 2350' Perforations 40

DEC - 3 2020

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 ₋	03482 Cour	nty LINCOLN	District DUVAL	
Quad GRIFFITHSVILI		Name MAY, EDNA	Field/Pool Name	GRIFFITHSVILLE
Farm name JOHNSON	J., LOVEJOY		Well Number 15	
Operator (as registered w		NERGY LLC		
Address 5260 DuPON	T ROAD	City PARKERSBUR	RG State WV	Zip 26101
Landing Point o Botton Elevation (ft) 970' Permit Type Devia Type of Operation Co Well Type Brine Disp Type of Completion S Drilled with Cable	op hole Northing of Curve Nort	4,232,296 M 4,232,522 M Type of Well New Ex Horizontal 6A Plug Back Oil Secondary Reco Fluids Produced Brine	Easting Hasting 416,232 M Control Type of Report Type Redrilling Rework Very Solution Mining S	Storage □ Other
N/A Date permit issued	6/5/15 Date	drilling commenced		g ceased11/5/15
			eletion activities ceased	12/4/15
Verbal plugging (Y/N) _	N Date perm	nission granted	Granted by	
Please note: Operator is	required to submit a pl	ugging application within 5	5 days of verbal permission to	plug
Freshwater depth(s) ft _	None	Open mine(s) (Y/N) depths	None
Salt water depth(s) ft	1160'	Void(s) enc	ountered (Y/N) depths	None
Coal depth(s) ft	587'- 592'	-	ncountered (Y/N) depths	None
is coal being mined in are	ea (Y/N)	N		RECEIVED Office of Oil and Gas Reviewed by: DEC - 3 2020 WW Department of Environmental Protect
				Environmental Protect

WV Department of Environmental Protection

WR-35 Rev. 8/23/13								Page	e 2_ of 4_
API 47- 043	_ 03482	Farm na	me_JOHNSC	ON, J. , LO	VEJOY	Well r	number_154		
CASING STRINGS	Hole Size	Casing Size	Depth	New or Used	Grade wt/ft		asket epth(s)	Did cement circ	
Conductor	12 1/4"	11 5/8"	30'	Used		_S		San	
Surface	8 3/4"	7"	636'	New	1	LS	64'	,	<u> </u>
Coal									
Intermediate 1									
Intermediate 2									
Intermediate 3									
Production	6 1/4"	4 1/2"	2764.9'	New		-55		Y	
Tubing	0 1/4	7 1/2	2704.0	11011					
Packer type and de	epth set			J	<u> </u>				
CEMENT	Class/Type	ks to surface on 7" surf Number		y N	Yield	Volume	Ceme		woc
DATA Conductor	of Cement	of Sacks	wt (pp	og) (fl	t ³ /sks)	(ft ³)	Top (M	(D)	(hrs)
Surface									
Coal	Reg Neat	160	15.6	5 1	1.18	189	Surfa	ce	8
Intermediate 1									
Intermediate 2									
Intermediate 3									
Production	50:50 Pozmix	120/125	5 13.2/1	4.2 1.6	4/1.27	197/186	116	'	8
Tubing									
Drillers TD (ft Deepest forma Plug back pro Kick off depth Check all wire	tion penetrated cedure N/A (ft) 650'	Berea	■ density	Loggers T Plug back	` /		luction		
	-	■ neutron	■ resistivity	■ gamma	a ray	≜ ter	nperature	□sonic	
Well cored		Conventio				_		Yes No	
DESCRIBE TI 20 Centralizers every 88 f	HE CENTRALI from bottom on 4 1/2", Centra	ZER PLACEME	NT USED FO	OR EACH CA	ASING ST	TRING			
WAS WELL C	COMPLETED A	S SHOT HOLE	□ Yes ■	No DE	ETAILS .				
WAS WELL C	COMPLETED C	PEN HOLE?	□ Yes ■ N	o DETA	AILS			Office O	CEIVED f Oil and Gas
WERE TRACI	ERS USED 🗖	Yes ■ No	TYPE OF T	RACER(S) I	ISED			DEC	- 3 2020

WERE TRACERS USED □ Yes ■ No TYPE OF TRACER(S) USED _____

API 47- 043 - 03482

Farm name_JOHNSON, J., LOVEJOY

_Well number__154

PERFORATION RECORD

Stage No.	Perforation date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formation(s)
1	12/2/15	2640'	2650'	40	Berea
			-		
				-	

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	12/4/15	4	1057	3023	975	1,000	149	
		-						
								-
								-

Please insert additional pages as applicable.

RECEIVED
Office of Oil and Gas

DEC - 3 2020

WR-35 Rev. 8/23/13									Page <u>4</u> of <u>4</u>
API 47- 043	_ 03482	Farm	name JOHNS	ON, J. , LC	VEJOY	Well 1	number	154	-
PRODUCING I	FORMATION	N(S)	<u>DEPTHS</u>						
Berea			2460'- 2482'	TVD 2	2635'- 2658'	MD			
						-			
Please insert ad	ditional pages	s as applicable.		_					
GAS TEST	□ Build up	□ Drawdown	□ Open Flow	(DIL TEST	Flow [Pump)	
SHUT-IN PRES	SSURE Su	rface	_psi Botto	m Hole	psi	DURA	TION (OF TEST _	hrs
OPEN FLOW	Gas m	Oil cfpd	NGL bpd	bpd _	Water bpd	GAS N	/EASU	JRED BY □ Orifice	□ Pilot
LITHOLOGY/ FORMATION	TOP DEPTH IN FI NAME TVD		TOP DEPTH IN FT MD		T DESCRIBE				ANTITYAND IL, GAS, H ₂ S, ETC)
Sand/Shale	0	587	0	587					
Pittsburgh Coal	587	592	587	592					
Sand/Shale	592	1746	592	1852					
Big Lime	1746	1950	1852	2098					
Big Injun	1950	2050	2098	2212					
Shale	2050	2440	2212	2614					
Coffee Shale	2440	2460	2614	2635					
Berea	2460	2482	2635	2658	Dri	led directi	onal N	25.5° E a dis	tance of 700'
Shale	2482	2634	2658	2811					
TD	2634		2811						
Please insert ad	ditional pages	s as applicable.							
Drilling Contract Address 11565 S			City	Vincent		State	ОН	Zip 4578	34
Logging Compa Address 11000 F	any Weatherformance PL	ord International	City	Youngstown		State	ОН	Zip 4450	02
Cementing Com Address 14 Sew	npany Univers	sal Services	City	Buckhannon		State	WV	Zip 2620	11
Stimulating Cor	mpany Prod	ucers Service Co	rp.	200000000000000000000000000000000000000		_ 7 (0)			
Address 109 Sou Please insert add			City	Zanesville		State	ОН	Zip 4370)1
Completed by					Telephone	304-420	-1107		RECEIVED Office of Oil and G
Signature	I hank	Aldr	Title O	perations Man			Date 1	2/7/15	
-4	draulic Fracti	uring Chemical		rmation	Attach copy o				DEC - 3 202

FORM WW-3 (A) 1/12



1) Date:	October 30	, 2020				
2) Operato	or's Well	No.	Edna M	May 150		
3) API We	ell No.:	47	-	043	-	03520 03482
A SECTION		State	7	County	-	Permit
4) UIC Per	mit No.	UIC2R	04302A	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.

(a) Name Address 5 Bethel Drive Yawkey, WV 25573 (b) Name Address 5 Bethel Driva Address 6 Bethel Driva Address 6 Bethel Driva Address 6 Bethel Driva Yawkey, WV 25573 (c) Name Address (d) Inspector Terry Urban Address 6) Inspector Terry Urban Address 7) (c) Coal Lessee with Name Address Telephone Name Address Telephone Name Address To THE PERSONS NAMED ABOVE: You should have received the Name Address To THE PERSONS NAMED ABOVE: You should have received the Name Name Name Name Name Name Name Nam	
(b) Name Address Dwight & Debra Lovejoy	
To the persons name and received in the drilling or other work; The plat (surveyor's map) showing the well location on Form WW-6; and complete or or other and accompanying documents for a Well Work Permit well virginia Department of Environmental Protection, with respect to a well work publication and depicted on the attached Form WW-6. Copies of this Notice, the and Reclamation Plan have been mailed by registered or certified mail or deliveres by publication in certain circumstances) on or before the day of the mailing or deliveres the information, I believe that mediate immediately responsible for obtaining the information, I believe that mediately responsible for obtaining the information, I believe that three the information is true, accurate and complete. I am aware that there information is true, accurate and complete. I am aware that there information is true, accurate and complete. I am aware that there information is true, accurate and complete. I am aware that there information is true, accurate and complete. I am aware that there information is true, accurate and complete. I am aware that there information is true, accurate and complete. I am aware that there information is true, accurate and complete. I am aware that there information is true, accurate and complete. I am aware that there information is true, accurate and complete. I am aware that there into the contraction in the information is true, accurate and complete. I am aware that there into the information is true, accurate and complete. I am aware that there into the information is true, accurate and complete. I am aware that there into the information is true, accurate and complete. I am aware that there into the interments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that there into the interments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that there into the interments and that the informati	
Address Same Name Address	The state of the s
(c) Name Address (d) Inspector Address (e) Inspector Address (f) Inspector Address (g) Inspector Address (g) Inspector Address (h) Name Address (h) Name NA Address (h) Colledenin, WV 25045 (h) Name NA Address (h) Name NA Address (h) Colledenin, WV Address (h) Colledenin, WV Address (h) Name NA Address (h) Name NA Address (h) Colledenin, WV Address (h) Colledeni	ith Declaration Of Record
(c) Name Address Terry Urban Address 7) (c) Coal Lessee with Name Address 7) (c) Coal Lessee with Name Address P.O. Box 1207 Clendenin, WV 25045 Address Telephone 7) (c) Coal Lessee with Name NA Address Telephone Address TO THE PERSONS NAMED ABOVE: You should have received th The Application For A Liquid Injection or Waste Disposal Well Work Perr parties involved in the drilling or other work; The plat (surveyor's map) showing the well location on Form WW-6; and The Construction and Reclamation Plan on Form WW-9 (unless the well wor plan for erosion and sediment control and for reclamation for the site and acce The date proposed for the first injection or waste disposal is THE REASON YOU HAVE RECEIVED THESE DOCUMENTS IS THAT NAPPLICATION WHICH ARE SUMMARIZED IN THE "INSTRUCTIONS" ON THE APPLICATION [(FORM WW-3(B))] DESIGNATED TO YOU. HOWEVE ACTION AT ALL. Take notice that under Chapter 22-6 of the West Virginia Code, the undersigned w Notice and Application and accompanying documents for a Well Work Permit w West Virginia Department of Environmental Protection, with respect to a well Application and depicted on the attached Form WW-6. Copies of this Notice, the and Reclamation Plan have been mailed by registered or certified mail or delivered by publication in certain circumstances) on or before the day of the mailing or delivered that the information submitted in this document and all and am familiar with the information submitted in this document and all and am familiar with the information submitted in this document and all and am familiar with the information submitted in this document and all and am familiar with the information submitted in this document and all and am familiar with the information submitted in this document and all and an familiar with the information submitted in this document and all and an familiar with the information submitted in this document and all and an familiar with the information is true, accurate and complete. I am aware that there	
Address Terry Urban Address P. O. Box 1207 Clendenin, WV 25045 Address Telephone TO THE PERSONS NAMED ABOVE: You should have received the parties involved in the drilling or other work; The plat (surveyor's map) showing the well location on Form WW-6; and the plan for erosion and sediment control and for reclamation for the site and acceed the plan for erosion and sediment control and for reclamation for the site and acceed the proposed for the first injection or waste disposal is THE REASON YOU HAVE RECEIVED THESE DOCUMENTS IS THAT APPLICATION WHICH ARE SUMMARIZED IN THE "INSTRUCTIONS" ON THE APPLICATION [(FORM WW-3(B))] DESIGNATED TO YOU. HOWEVE ACTION AT ALL. Take notice that under Chapter 22-6 of the West Virginia Code, the undersigned we work to reclamation and depicted on the attached Form WW-6. Copies of this Notice, the and Reclamation Plan have been mailed by registered or certified mail or delivered by publication in certain circumstances) on or before the day of the mailing or delivered the information is true, accurate and complete. I am aware that there the last there information is true, accurate and complete. I am aware that there into the complete information is true, accurate and complete. I am aware that there into the complete into the complete into the time information is true, accurate and complete. I am aware that there into the complete into the com	
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For delivery information, visit our website at www.usps.com PARKERSBURG 1287 Certified Mail Fee Extra Services & Fees (check box, add Return Receipt (hardcopy) 0000 Return Receipt (electronic) 05 2020 Certified Mail Restricted Delivery Adult Signature Required Adult Signature Restricted Delivery \$ 무도리 Total Postage and Fees IEJ M 154 0 Sent To Jonathan Johnson 707 Apt. No., or PO Box No. 5 Bethel Drive City, State, ZIP+48 Yaw Key WV 25573

Office of Oil and Gas

DEC - 3 2020



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

October 30, 2020

Dwight & Debra Lovejoy 5 Bethel Drive Yawkey, WV 25573

RE:

Edna J. May No. 154

Duval District, Lincoln 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

Enclosures

RECEIVED Office of Oil and Gas

DEC - 3 2020



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

October 30, 2020

Jonathan Johnson 5 Bethel Drive Yawkey, WV 25573

RE:

Edna J. May No. 154

Duval District, Lincoln County

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Dear Landowner:

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Diane White

Diane C. White

Enclosures

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DEC - 3 2020

WW-2A / 3A Surface Waiver

		SURFACE OWN	ER WAIVER	र			
County	Lincoln	_ Operato Operato	r r well nun		HG Energy Edna J. Ma		
	INSTRUCTIONS TO	SURFACE OWNER			 WW2-A / 3A		
(Note: If the su name appeared you may be the work permits ar	Il operator named on page rface tract is owned by more I on the Sheriff's tax ticket e only owner who will actua e valid for 24 months. If you mmediately if you know who NOTE: YOU WHERE TO FILE CO	re than three persons on the land or becar ally receive these man ou do not own any inte o it is. Also, please r ARE NOT REQUIRE	s, then thes use you act terials.) See erest in the solution of TO FILE.	e materials ually occup e Chapter 2 surface trac ell operator a	were served by the surface 22 of the Wes ct, please forw and the Office MENT.	on you be tract. In e t Virginia (ard these of Oil and	ecause your either case, Code. Well materials to
601 57 th St. SE Charleston, W	Environmental Protection 25304						
operator files his be filed in personal be sure of the handling. If you the planned wo	id methods for filing coming Application. You have Flow or received in the mail by date. Check with your purpose been contacted by the described in these mater	FTEEN (15) DAYS a y the Chief's office by costmaster to ensure he well operator and cials, then the permit r	Ifter the filing If the time so If adequate If you have so If any be issue	g date to file tated above delivery tim gned a "vol ed at any til	e your comme e. You may ca ne or to arrar luntary statem me.	ents. Com all the Chic nge specia ent of no c	ments must ef's office to al expedited objection" to
well operator's from the applica The Ch 1) The 2) The 3) Da 4) The	ents must be in writing. name and well number and ation. You may add other durief has the power to deny one proposed well work will contain a social erosion and sediment amage would occur to public proposed well work fails to applicant has committed	I the approximate loc locuments, such as so or condition a well wo onstitute a hazard to to control plan is not actly owned lands or resto oprotect fresh water	ation of the ketches, mark permit ba he safety of lequate or e sources; sources or s	proposed waps or photo sed on com- persons. iffective; supplies;	vell site includ ographs to sup nments on the	ing district oport your of following of	and county comments. grounds:
, mo	re of the rules promulgated	under Chapter 22, a	nd has faile	d to abate o	or seek review	of the viol	ation…".
	want a copy of the perm / from the Chief.	it as it is issued of	r a copy of	the order	denying the	e permit, y	/ou snoula
List of	Water Testing Laboratori er to establish water quality	prior to and after dri	lling. Conta	ct the Chief	f to obtain a co	es which y opy.	ou can hire
Application for work order on fas described the	y state that I have read the a Well Work Permit on Fori Form WW-2B / 3A, a survey	m WW2-A / 3A, and a plat, and a	ce owners a attachments erosion plar	and that I has consisting n, all for pro	ave received of pages 1 the posed well wo	rough ork on my s	_ including a surface land
	issued on those materials.	tion to the planned we	ork describe	u III lilese i	naterials, and	Thave no	objection to
FOR EXECUTI	ON BY A NATURAL PERS	ON	FO	R EXECUT	ION BY A CO	RPORATIO	ON, ETC.
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Pri	int Name					w Departm ronmental F	ent of retection
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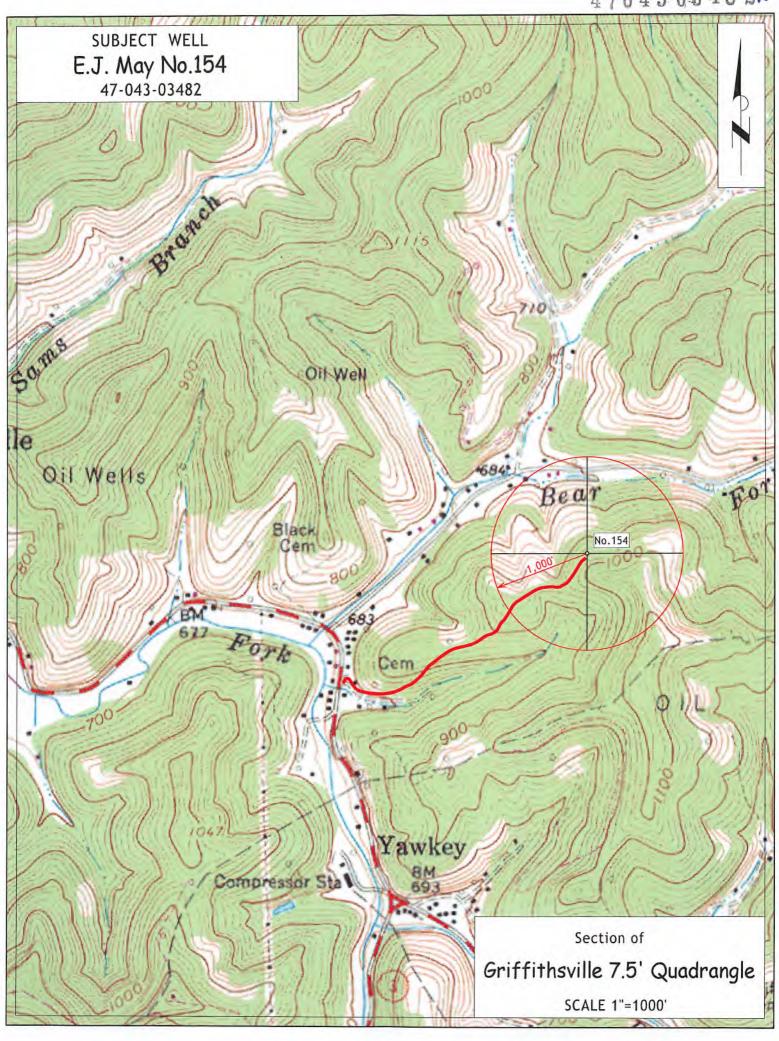
WW-9 (2/15) API Number 47 - 043 ___ 03482 Operator's Well No. Edna J. May No. 164

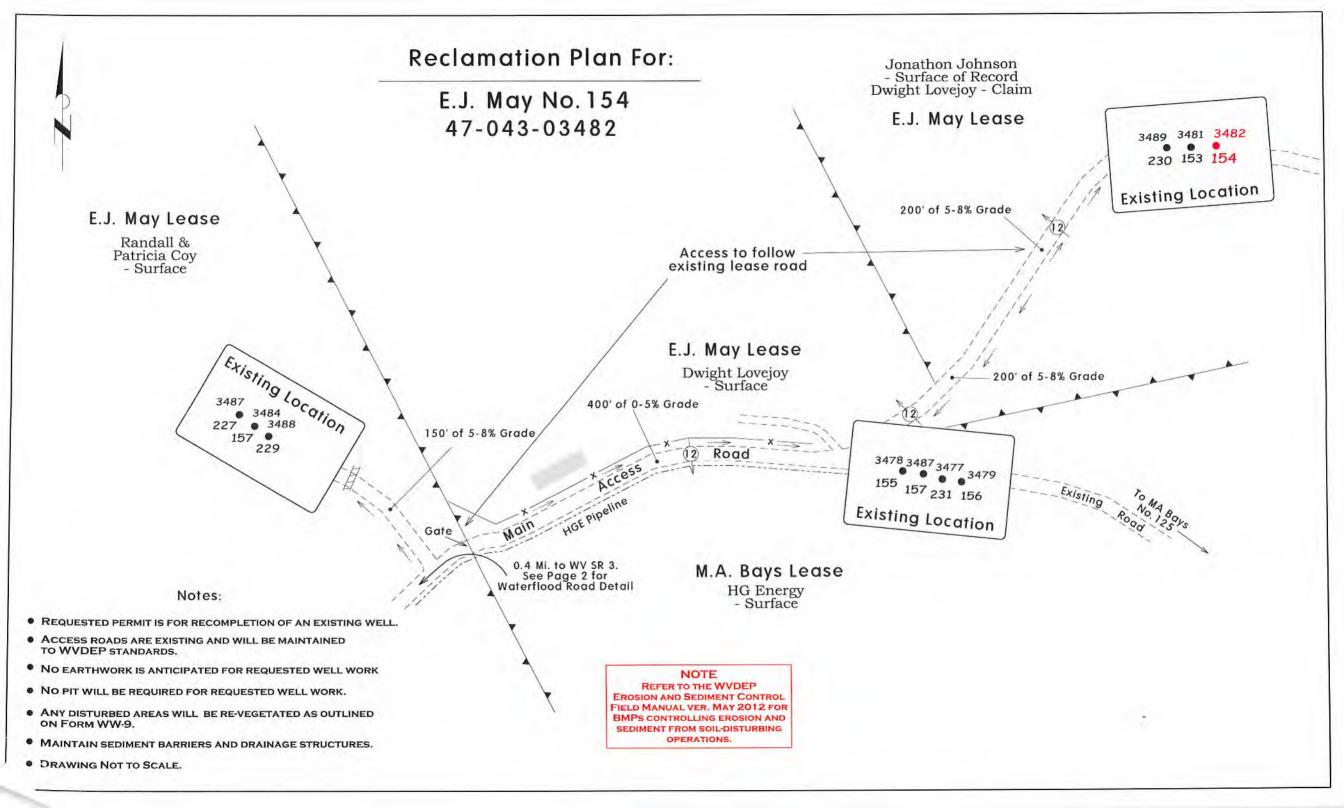
STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION OFFICE OF OIL AND GAS

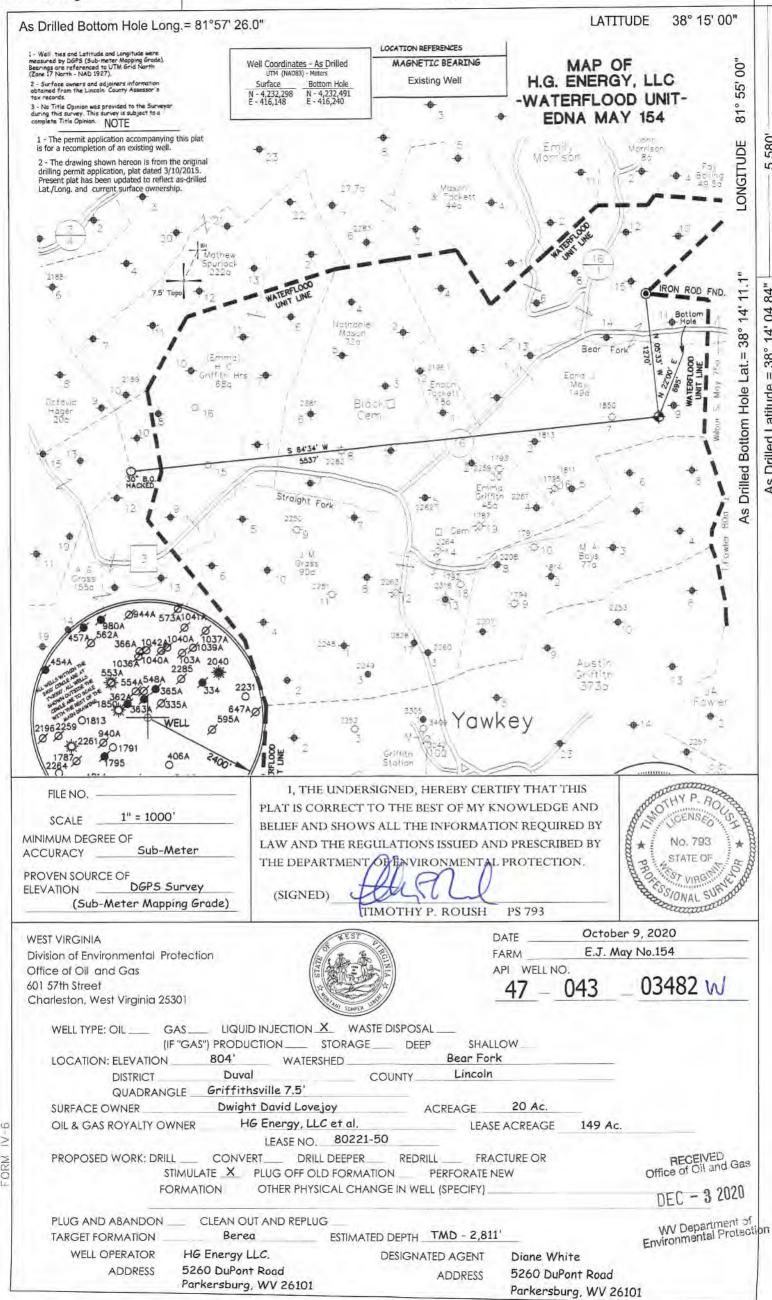
FLUIDS/ CUTTINGS	DISPOSAL & RECLAMATION PLAN	
Operator Name HG Energy, LLC	OP Code UIC2R04302AP	
Vatershed (HUC 10) Bear Fork	Quadrangle Griffithsville 7.5'	
Do you anticipate using more than 5,000 bbls of water to	complete the proposed well work? Yes	No
Will a synthetic liner be used in the pit? Yes	No ✓ If so, what ml.?	
Proposed Disposal Method For Treated Pit Was Land Application Underground Injection (UIC Reuse (at API Number	Permit Number	roved disposal site
Will closed loop system be used? If so, describe: No		
Drilling medium anticipated for this well (vertical and ho	prizontal)? 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, rea	moved offsite, etc. NA	
-If left in pit and plan to solidify what medium		
-Landfill or offsite name/permit number? NA at		
Permittee shall provide written notice to the Office of Oi West Virginia solid waste facility. The notice shall be pr where it was properly disposed.	il and Gas of any load of drill cuttings or associated rovided within 24 hours of rejection and the permitte	waste rejected at any e shall also disclose
on August 1, 2005, by the Office of Oil and Gas of the V provisions of the permit are enforceable by law. Violar law or regulation can lead to enforcement action. I certify under penalty of law that I have per application form and all attachments thereto and that obtaining the information, I believe that the information penalties for submitting false information, including the	rsonally examined and am familiar with the informat, based on my inquiry of those individuals immore is true, accurate, and complete. I am aware to possibility of fine or imprisonment.	on. I understand that the t and/or other applicable nation submitted on this ediately responsible for
Company Official Signature Diane Whit	le .	
Company Official (Typed Name) Diane White		
Company Official Title Agent		Office of Oil and Gas
Subscribed and sworn before me this 30th da	ay of October , 20 20	DEC - 3 2020
0		WV Department of
My commission expires 7/31/2022		Environ FFICIAL SEAL STATE OF WEST VIRGINIA NOTARY PUBLIC CASSIDY A. BOARDMAN 5301 13th Ave Vienna, WV 2610 My Commission Expires July 31, 20

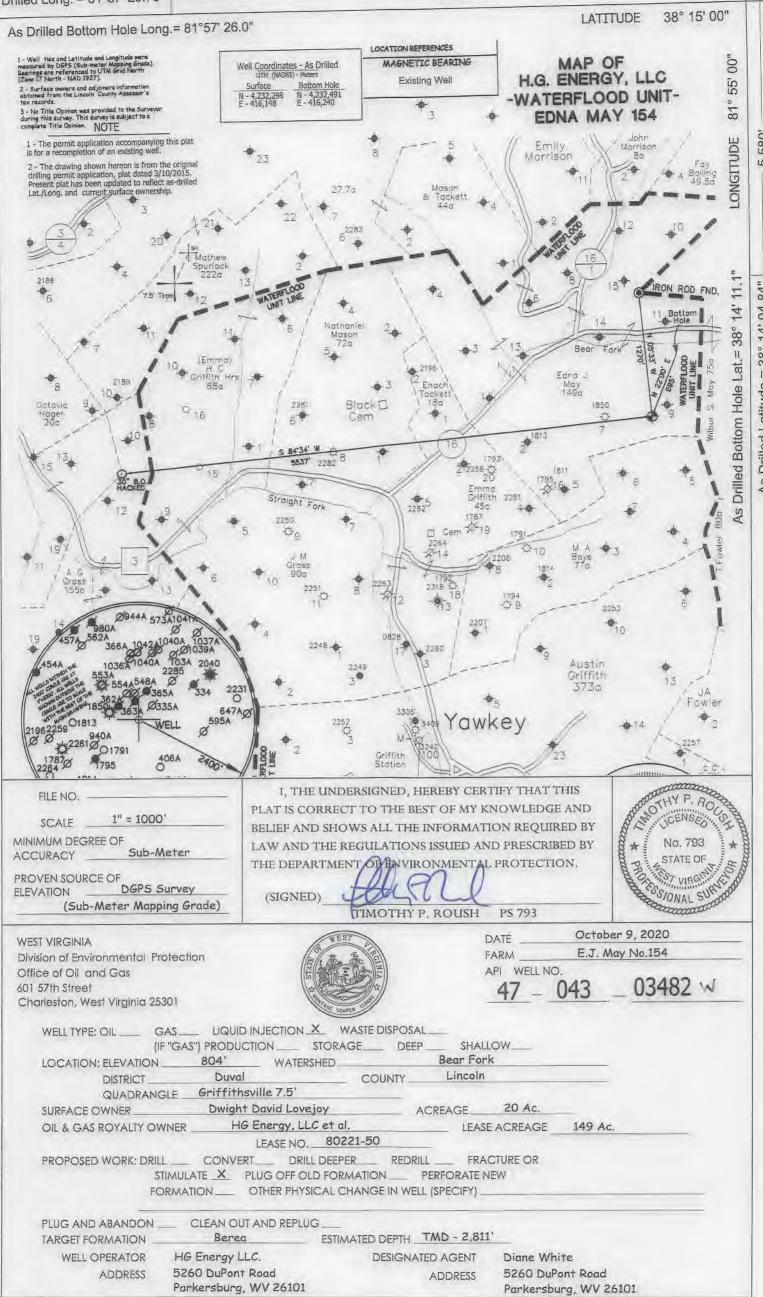
roposed Revegetation Treatme	ent: Acres Disturbed20	Prevegetation pF	I
Lime3	Tons/acre or to correct	to pH6.5	
Fertilizer type 10-20-	-20	-	
Fertilizer amount	500	lbs/acre	
Mulch_Straw	2	Tons/acre	
		Seed Mixtures	
Tem	porary	Perma	anent
Seed Type	lbs/acre	Seed Type	lbs/acre
Tall Fescue	40	Tall Fescue	40
Ladino Clover	5	Ladino Clover	5
Sediment Control V Attach: Drawing(s) of road, location, p provided) Photocopied section of involve	pit and proposed area for la	At All Times and application (unless engineered plans in	ncluding this info have t
Attach: Drawing(s) of road, location, p provided)	pit and proposed area for la		ncluding this info have b
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HG Energy, LLC 5260 Dupont Road Parkersburg, WV 26101 (304) 420-1100 - Office (304) 863-3172 - Fax

October 30, 2020

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

RE:

Edna J. May No. 154

Duval District, Lincoln 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 an injection well. Also enclosed is our check in the amount of \$500.00 to cover the associated permit fees.

Very truly yours,

Diane White

Diane C. White

Enclosures

cc:

HG Energy, LLC - Certified Not noticed

Dwight & Debra Lovejoy - Certified

Jonathan Johnson – Certified Terry Urban - Inspector CK# 4818 Amt \$500 Date 11/5/20

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DEC - 3 2020

WW-2B1 (5-12)

Well No.	Edna J. May No. 154
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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.

Certified Labora	atory Name	Sturm Environmental
Sampling Contractor		Sturm Environmental
Well Operator HG Energy, LLC		
Address	5260 Dupont Ro	
Parkersburg, W		/V
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.

* Not Applicable *

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Office of Oil and Gas
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WV Department of
Environmental Protection