

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

Thursday, April 8, 2021 WELL WORK PLUGGING PERMIT Vertical Re-Work

HG ENERGY, LLC 5260 DUPONT ROAD PARKERSBURG, WV 26101

Re: Permit approval for W. S. MAY NO. 502

47-043-03577-00-00

This well work permit is evidence of permission granted to perform the specified well work at the location described on the attached pages and located on the attached plat, subject to the provisions of Chapter 22 of the West Virginia Code of 1931, as amended, and all rules and regulations promulgated thereunder, and to any additional specific conditions and provisions outlined in the pages attached hereto. Notification shall be given by the operator to the Oil and Gas Inspector at least 24 hours prior to the construction of roads, locations, and/or pits for any permitted work. In addition, the well operator shall notify the same inspector 24 hours before any actual well work is commenced and prior to running and cementing casing. Spills or emergency discharges must be promptly reported by the operator to 1-800-642-3074 and to the Oil and Gas Inspector.

Upon completion of the plugging well work, the above named operator will reclaim the site according to the provisions of WV Code 22-6-30. Please be advised that form WR-38, Affidavit of Plugging and Filling Well, is to be submitted to this office within 90 days of completion of permitted well work, as should form WR-34 Discharge Monitoring Report within 30 days of discharge of pits, if applicable. Failure to abide by all statutory and regulatory provisions governing all duties and operations hereunder may result in suspension or revocation of this permit and, in addition, may result in civil and/or criminal penalties being imposed upon the operators.

Per 35 CSR 4-5.2.g this permit will expire in two (2) years from the issue date unless permitted well work is commenced. If there are any questions, please feel free to contact me at (304) 926-0450.

> James A. Martin Chief

Operator's Well Number: W. S. MAY NO. 502

Farm Name: DAVID ADKINS

U.S. WELL NUMBER: 47-043-03577-00-00

Vertical Re-Work Date Issued: 4/8/2021



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, drilling ceased, completion of any other permitted well work and completion of the 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



 Date: Operator 	No. W.		. S. May 502			
3) API Wel		47		Lincoln	-	03577
		State		County		Permit
4) UIC Perr	nit 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

	Distr	ct: Duval			Cou	unty Lincoln			gle Griffithsville 7.5'
) WELL	OPERATOR:	HG Energy, LI	_C			8) DESIGNA'	TED AGE	NT Diane Wh	nite
	Address	5260 Dupont I					Addres	-	oont Road
		Parkersburg, \	NV 26101					Parkersb	urg, WV 26101
O) OIL & (GAS INSPECT	OR TO BE	NOTIFI	ED		10) DRILLIN	G CONTR	CACTOR	
Name	Terry Urban					Name To E	Be Determined	d Upon Approva	l of Permit
Address	P. O. Box 1207					Address			
	Clendenin, WV 2	045				-			
12) GEOL 13) Estima 14) Appro: 15) Appro: 16) Is coal	OGIC TARGE ated Depth of C ximate water s ximate coal ser being mined in reservoir pres	T FORMA completed Varata depths im depths; in the area?	Other p Other p TION Be Vell, (or a Fre 481' Yes et formation	old formathysical of the second of the secon	change in v	/ Performed / Perf	2735'		Feet
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18) Estima 19) MAXI 20) DETA bactericid 21) FILTE 22) SPECI 23) CASING CASING TUBING Conductor Fresh Wate Coal Intermediat	ated reservoir f MUM PROPO ILLED IDENT les and other chemic RS (IF ANY) IFICATIONS G AND TUBIN G OR TYPE Size 13 3/6 T T' IE	racture pres SED INJEC FICATION cals as needed Centridge filte FOR CATH G PROGRAT SP Grade " LS LS J-55	CTION OF MACTOR OF MACTOR OF MACTOR OF THE M	PERATI FERIAL vater quality ROTECT ONS New	S TO BE II	NJECTED, INColl recovery. OTHER CORI FOOTAGE IN For Drilling 17' 548'	CLUDING ROSION C TERVALS Left In Well 17' 548'	CONTROL CEMENT FILL -UP OR SACKS (CU. FT.) Sand in CTS	PACKERS Kinds Sizes 2.375* Depths set 2600'
18) Estima 19) MAXI 20) DETA bactericid 21) FILTE 22) SPECI 23) CASIN CASING TUBING Conductor Fresh Wate Coal Intermediat Production	ated reservoir f MUM PROPO ILLED IDENT les and other chemic RS (IF ANY) IFICATIONS G AND TUBIN G OR TYPE Size 13 3/6 7" te 4 1/2	racture pres SED INJEC FICATION cals as needed Centridge filte FOR CATH G PROGRAT SP Grade " LS LS J-55	CTION OF MACTOR	PERATI FERIAL Vater quality ROTECT ONS New X X	S TO BE II	NJECTED, INColl recovery. OTHER CORI FOOTAGE IN For Drilling 17' 548'	CLUDING ROSION C TERVALS Left In Well 17' 548'	CONTROL CEMENT FILL -UP OR SACKS (CU. FT.) Sand in CTS	PACKERS Kinds Sizes 2.375* Depths set
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DEC - 3 2020



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

API 47 043 0	3577 Coun	ty LINCOLN	Dì	strict_DUVAL		
Quad GRIFFITHSVILLE	7.5' Pad I	_{Vame} W.S. MAY	Fi	eld/Pool Name	GRIFFITHS\	/ILLE
Farm name ADKINS, DAV				ell Number 502		
Operator (as registered with		NERGY LLC				
Address 5260 DuPONT I	ROAD	City PARKERSE	BURG	State WV	Zip_2	6101
As Drilled location NAD Top I Landing Point of C Bottom I	nole Northing _ urve Northing _	h an as-drilled plat, pro 1,232,257 M ,232,372 M	Easting	deviation survey g 416,390 M g 416,649 M		
Elevation (ft) 987'	GL Ty	pe of Well New	Existing	Type of Report	t ⊡Interim l	F inal
Permit Type 💄 Deviated	□ Horizontal	□ Horizontal 6A	□ Vertical	Depth Type	п Деер	■ Shallow
Type of Operation □ Conve	ert 🗆 Deepen 1	Drill Plug Bac	k 🗆 Redrillir	ng □ Rework	□ Stimulate	ŀ
Well Type Brine Disposa	ıl □ CBM □ Gas	□ Oil ■ Secondary R	ecovery 🗆 Solu	tion Mining OS	torage 🗆 Oth	ier
Drilling Media Surface hor Production hole Air Mud Type(s) and Additive(s)	Mud 🗆 Fresh Wa		Intermediate hol	e ≝Air ⊡Mud	d	ater 🗆 Brine
N/A						
			•		·	***************************************
Date permit issued2/	12/18 Date of	Irilling commenced	6/21/18	Date drilling	ceased	6/29/18
Date completion activities be		18 Date co	mpletion activit	ies ceased	7/11/18	·
Verbal plugging (Y/N)						RECEIVED
						Office of Oil and Ga
Please note: Operator is requ	uired to submit a plu	gging application with	in 5 days of verb	oal permission to p	plug	DEC - 3 2020
Freshwater depth(s) ft	None	Open mi	ne(s) (Y/N) dept	ths	None	WV Department o Environmental Protect
Salt water depth(s) ft	44501	Void(s)	encountered (Y/I	N) depths	None	
Coal depth(s) ft	4041 4001		•	Y/N) depths	None	-
Is coal being mined in area (N			Reviewe	ed by:
					210110110	

API 47- 043	03577	Farm n	ame_ADKINS	, DAVID		Well	number 502		
CASING	Hole	Casing		New or	Grade	F	Basket	Did cement circula	` '
STRINGS	Size	Size	Depth	Used	wt/ft		epth(s)	* Provide details	
Conductor	15"	13 3/8"	17'	New		LS	0.41	Sand I	<u>n</u>
urface Coal	8 3/4"	7"	548.2'	New	<u> </u>	LS	64'	T	
ntermediate 1									
ntermediate 2				 	 				
ntermediate 3				 					
roduction	6 1/4"	4 1/2"	2906.66	New		I-55		N	
ubing	0 114		2000.55						
acker type and de	pth set		<u> </u>		<u> </u>				
omment Details CEMENT	Class/Type	Numb	er Slur	ту	Yield	Volume	Cemen	-	ос
DATA	of Cement	of Sacl			t³/sks)	(ft. ²)	Top (M)	D) (I	ırs)
Conductor					1.40	405	Out of a		8
urface	Reg Neat	140	15.	6	1.18	165	Surfac	JG	<u> </u>
termediate 1							_		
itermediate 2									
termediate 3									
roduction	50:50 Pozmi	x 140/12	25 13.2/1	14.2 1.6	64/1.27	230/186	530'		8
ubing									
Orillers TD (ft) Deepest format lug back prod	ion penetrated	Вегва		Loggers T					
Cick off depth	(ft) 650'								
Check all wirel	ine logs run	■ caliper □ neutron	□ density □ resistivity		ed/directi a ray		fuction mperature	⊡sonic	
Well cored □	Yes No	Conventi	onal Side	ewall	W	ere cuttings	collected =	Yes 🗆 No	
		ZER PLACEM dizer placed mid atting on 7		OR EACH C	ASING S	TRING			
WAS WELL C	OMPLETED A	AS SHOT HOL	E □Yes ■	No Di	ETAILS			Office	ECEIVED of Oil and
								DEC	

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API 47- 043 _ 03577	Farm name_ADKINS, DAVID	Well number 502	
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PERFORATION RECORD

Stage No.	Perforation date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formation(s)
1	7/10/18	2735'	2747'	48	Berea
			Jul. 1		may advertises
-	200-200-				•
			- AND AND THE SECOND SE		1.0000000000000000000000000000000000000
			and the same		- part was
					1.000
	A.J. Lyndrolanov				
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					when , was
	- In the later of				The Burney Control of the Control of
					- in-
		Asplanes so:			
-		*******			apply the second
		anne de de			

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	7/11/18	4	957	1509	828	1,000	156	
			12 September 1					
								1.6VC
							- W. W. W. W.	
							1	
								W
			Con-					
				Market				
		-						
					refu			West

Please insert additional pages as applicable.

RECEIVED Office of Oil and Gas

DEC - 3 2020

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API 47- 043	_ 03577	Farm	name ADKINS	S, DAVID	*****	Well number	502	
PRODUCING:	FORMATION	(S)	<u>DEPTHS</u>					
Berea				TVD	2732'- 2760'	MD		
Delea			2100 2100	_ 1 AD	2702 2700			
		 -		`				
								
Please insert ad	ditional names	as annlicable						
GAS TEST	□ Build up	⊐ Drawdown	□ Open Flow		OIL TEST 1	Flow \square Pump	•	
SHUT-IN PRE	SSURE Sur	face	_psi Botto	m Hole	psi	DURATION (OF TEST	hrs
OPEN FLOW	Gas mc	Oil fpd	NGL bpd	_ bpd _	Water bpd	GAS MEASU	JRED BY □ Orifice	□ Pilot
	mon	DOTTOM (TOD	DOTTO).	•			
LITHOLOGY/ FORMATION	TOP DEPTH IN FT		TOP DEPTH IN FT	BOTTOM DEPTH IN I		ROCK TYPE AND	RECORD OUAN	ITITYAND
FORWATION	NAME TVD	TVD	MD	MD		UID (FRESHWAT		
Sand/Shale	0	481	0	481			1	
Pittsburgh Coal	481	488	481	488				
Sand/Shale	488	1860	488	1968				
Big Lime	1860	1965	1968	2100				
Big Injun	1965	2051	2100	2210				
Shale	2051	2444	2210	2706				
Coffee Shale	2444	2465	2706	2732				
Berea	2465	2485	2732	2760	Dri	lled directional N	66° E a distant	ce of 932'
Shale	2485	. 2629	2760	2943				
TD	2629		2943					
Please insert ad								
Drilling Contra	ctor Noah Horn	Well Drilling					.	
Address 1070 S	andy Valley Lane		City	Vansant		State	Zip_24656	
Logging Compa	Annalachia	n Well Surveys						
Logging Compa Address 10291 (Ohio Avenue		City	Cambridge		State OH	Zip 43725	
•			City					***************************************
Cementing Con	npany Petroset	Services						
Address P.O. Bo	x 1076		City	Wooster		_State OH	Zip <u>44691</u>	
Stimulating Cor	mnany Produc	ers Service Cor	D.					
Address 109 So			City	Zanesville	-	_State OH	Zip 43701	
Please insert ad								
Completed by	Roger Heldmar				Telephone	304-420-1107		ying that are consistent and are
Signature	Su K	uldea	Title O	perations Mai	nager	Date	/17/18	RECEIVED — Office of Oil and
Submittal of Hy	- /draulic Fractur	ing Chemical I	Disclosure Infor	mation	Attach copy of	FRACFOCUS	Registry	DEC - 3 202

FORM WW-3 (A) 1/12



1) Date:	October 30	, 2020				
2) Operato	r's Well	No.	WSM	ay 502		
3) API We	ll No.:	47	-	043	3	03577
		State	_	County		Permit
4) UIC Peri	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,

5) Surface Ov	oner(S) To Be Served 7)	(a) Coal Op	erator		
(a) Name	25.57.44.1.1013333	Name	NA		
Address		Address			
	Griffithsville, WV 25521	a visa transcore		nen	7
(b) Name				eclaration Of Rec	ord
Address		Name	NA		
		Address			
(c) Name		Name	•		
Address		Address			
V Torresonte o	Terry Urban 7)	(c) Coal Le	ccee with Decla	ration Of Record	
) Inspector		Name	NA NA	itation of record	
Address	111111111111111111111111111111111111111	Address	INA		
Telephone	Clendenin, WV 25045 304-549-5915	Address	-		
 The App parties in 	PERSONS NAMED ABOVE: You should lication For A Liquid Injection or Waste Disprovolved in the drilling or other work;	oosal Well V	Work Permit or	m and the follo), which sets out the
		Form WW-F	o: and		
3) The Con	(surveyor's map) showing the well location on I struction and Reclamation Plan on Form WW-5 erosion and sediment control and for reclamation	(unless the	well work is c	only to plug a wel	I), which sets out the
(3) The Conplan for the date	struction and Reclamation Plan on Form WW-5 erosion and sediment control and for reclamation eroposed for the first injection or waste dis	9 (unless the n for the site sposal is _	well work is one and access roa	id.	20 20 .
The date THE REASO	struction and Reclamation Plan on Form WW-5 erosion and sediment control and for reclamation proposed for the first injection or waste dis N YOU HAVE RECEIVED THESE DOCU ON WHICH ARE SUMMARIZED IN THE "IN CATION [(FORM WW-3(B)] DESIGNATED TO	9 (unless the n for the site sposal is	e well work is of and access road acces road access road access road access road access road access ro	HAVE RIGHTS	20 20 . REGARDING THE E OF THE COPY OF
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The Conplan for a The date THE REASO APPLICATION AT Take notice and A West Virginia Application and Reclamat	struction and Reclamation Plan on Form WW-5 erosion and sediment control and for reclamation proposed for the first injection or waste dis a proposed for the first injection or waste dis N YOU HAVE RECEIVED THESE DOCU ON WHICH ARE SUMMARIZED IN THE "IN EATION [(FORM WW-3(B)] DESIGNATED TALL. That under Chapter 22-6 of the West Virginia Complication and accompanying documents for a population of Environmental Protection, would depicted on the attached Form WW-6. Copion Plan have been mailed by registered or cert	O (unless the n for the site sposal is	THAT YOU ONS" ON THE HOWEVER YOU Permit with the to a well at the lotice, the Apprendictions or delivery to	HAVE RIGHTS E REVERSE SID OU ARE NOT R Derator proposes to the Chief of the Ocation describing to the plat, thand to the person to the Chief.	20 20 REGARDING THE E OF THE COPY OF EQUIRED TO TAKE of file or has filed this ffice of Oil and Gas, ibed on the attached and the Construction
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SURFACE OWNER WAIVER

County	Lincoln	Operato		HG Energy.	
		Operato	or well numb	er <u>W. S. May S</u>	002
	INSTRUCTIONS TO SUR	FACE OWNER	RS NAMED O	N PAGE WW2-A / 3A	
(Note: If the sur name appeared you may be the work permits are	I operator named on page WW-2 face tract is owned by more that on the Sheriff's tax ticket on the only owner who will actually receivalid for 24 months. If you do not make the color of th	n three person e land or beca eive these ma ot own any into Also, please r	s, then these use you actua terials.) See erest in the sunotify the well in TO FILE A	materials were served on the surface of the Surface of the West of the West of the tract, please forward perator and the Office of the COMMENT.	on you because your tract. In either case, Virginia Code. Well ard these materials to
Chief, Office of Department of E 601 57 th St. SE Charleston, WV (304) 926-0450	Environmental Protection				
Time Limits an operator files his be filed in person be sure of the handling. If you the planned work Comme well operator's in from the applica The Ch 1) The 2) The 3) Dar 4) The 5) The more lifty out the planned work of the p	d methods for filing comments is Application. You have FIFTEE on or received in the mail by the date. Check with your postman have been contacted by the weak described in these materials, the ents must be in writing. Your name and well number and the aution. You may add other docume it is fast the power to deny or conce proposed well work will constitute a soil erosion and sediment control and the comment of the proposed well work fails to prote applicant has committed a subtree of the rules promulgated under want a copy of the permit as the chief.	N (15) DAYS a Chief's office be ster to ensure all operator and nen the permit accomments must pproximate locents, such as slition a well wo te a hazard to to lol plan is not accept fresh water stantial violation Chapter 22, a	after the filing of the time state adequate de you have sign may be issued ation of the production of the production of the production of the production of the safety of production of a previound has failed to the state of the safety of production of a previound has failed to the state of the safety of the safety of production of a previound has failed to the state of the state of the safety	date to file your commented above. You may callivery time or to arrangued a "voluntary statement at any time. If at any time, and te proposed well site including or photographs to supply do no comments on the fersons, ective; If a substantion a substantion abate or seek review of the substantion above.	nts. Comments must all the Chief's office to ge special expedited ent of no objection" to all lephone number, the ng district and county port your comments. Following grounds: Tal violation of one or of the violation".
List of to test your water	y state that I have read the instru	to and after dri Y STATEMEN Ictions to surfa	lling. Contact T OF NO OB. ce owners and	the Chief to obtain a co IECTION d that I have received co	py. opies of a Notice and
work order on F as described the	a Well Work Permit on Form WW form WW-2B / 3A, a survey plat, erein. r state that I have no objection to	and a soil and	erosion plan,	all for proposed well wo	rk on my surface land
	ssued on those materials.	the planned w	on accombca	in these materials, and	That's no objection to
FOR EXECUTION	ON BY A NATURAL PERSON		FOR	EXECUTION BY A COF	RPORATION, ETC.
	Date		Company Name	RECEIVED Office of Oil and) J Gas
	gnature		By _ Its		Date
03577				DEC - 3 2	
Pri	nt Name		-	W Departme Fryironmental Pi Signature	ent of rotection Date



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

October 30, 2020

David Adkins 5115 Straight Fork Griffithsville, WV 25521

RE: W. S. May No. 502

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

Office of Oil and Gas

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WW-2B1	
(5-12)	

Well No.	W. S. May No. 502

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 Laboratory Name
Sampling Contractor

Sturm Environmental

Sturm Environmental

Well Operator
Address

5260 Dupont Road

Parkersburg, WV

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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WV Department of Environmental Protection

WW-9 (2/15)

API Number 47 -	043	_ 03577
Operator's	Well No.	W. S. May No. 502

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

FLUIDS/ CU	TTINGS DISPOSAL & RECLAMATION PLAN
Operator Name HG Energy, LLC	OP Code UIC2R04302AP
Watershed (HUC 10) Bear Fork	Quadrangle Griffithsville 7.5
	water to complete the proposed well work? Yes No V Aut well effluent mist be contained for the No fluids are anticipated, if there are any, they'll be disposed of off site
Proposed Disposal Method For Treate	
Land Application Underground Injecti Reuse (at API Num	n (UIC Permit Number)
Will closed loop system be used? If so, describ	
	al and horizontal)? Air, freshwater, oil based, etc. NA
-If oil based, what type? Synthetic, pe	troleum, etcNA
Additives to be used in drilling medium? NA	
Drill cuttings disposal method? Leave in pit, la	ndfill, removed offsite, etc. NA
-If left in pit and plan to solidify what	medium will be used? (cement, lime, sawdust) NA
-Landfill or offsite name/permit numb	er? NA at this time
Permittee shall provide written notice to the Of West Virginia solid waste facility. The notice s where it was properly disposed.	ice of Oil and Gas of any load of drill cuttings or associated waste rejected at any nall be provided within 24 hours of rejection and the permittee shall also disclose
on August 1, 2005, by the Office of Oil and Ga provisions of the permit are enforceable by la law or regulation can lead to enforcement actic I certify under penalty of law that I application form and all attachments thereto obtaining the information, I believe that the penalties for submitting false information, incl	have personally examined and am familiar with the information submitted on this and that, based on my inquiry of those individuals immediately responsible for information is true, accurate, and complete. I am aware that there are significant uding the possibility of fine or imprisonment.
Company Official Signature Diane White Company Official (Typed Name)	Coll and Gas
Company Official Title Agent	DEC - 3 2020
Company officers 255	11 V V V V V V V V V V V V V V V V V V
Subscribed and sworn before me this 30th	day of October , 20 20 WV Department of Environmental Protection
Cassidy	Notary Public OFFICIAL SEAL
My commission expires 7/3//2022	STATE OF WEST VIRGINIA NOTARY PUBLIC CASSIDY A SOATOMAN 5301 1 SIA WOOD INC. 172 2 100 My Commission Expires July 31, 20

Toposed Revegeration Treat	ment: Acres Disturb	ned .25	Prevegetation pF	Ι
Lime				
Fertilizer type 10-2	G. Asiai	- Partie Partie		
		500 lbs	/acre	
Fertilizer amount_		2 Tons/ac		
Mulch_Straw			110	
		Seed	<u>Mixtures</u>	
Te	emporary		Perma	nnent
Seed Type	lbs/acre		Seed Type	lbs/acre
Tall Fescue	40		Tall Fescue	40
Ladino Clover	5		Ladino Clover	5
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Photocopied section of invo	AT Vise	c sheet.		REOffice
provided) Photocopied section of invo	AT Vise	c sheet.	shop	

Reclamation Plan For:

W.S. May No.502 47-043-03577

W.S. May

Lease David Adkins

- Surface

250' of 5-8% Grade

3577

No.502

3570 265

Existing Road to Thomas

700' of 0-5% Grade

E.J. May Lease

HG Energy, LLC - Surface

Drill SIte for E.J. May No.230 et al.

0.6 Mi. to WV SR 3. See Page 2 for Waterflood Road Detail

> M.A. Bays Lease

HG Energy, LLC - Surface

Fowler No.250 (47-043-3500) EXISTING LOCATION:

W.S. May No.261 (47-043-03568) W.S. May No.265 (47-043-03570) W.S. May No.502 (47-043-03577)

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WV Department of Environmental Protection

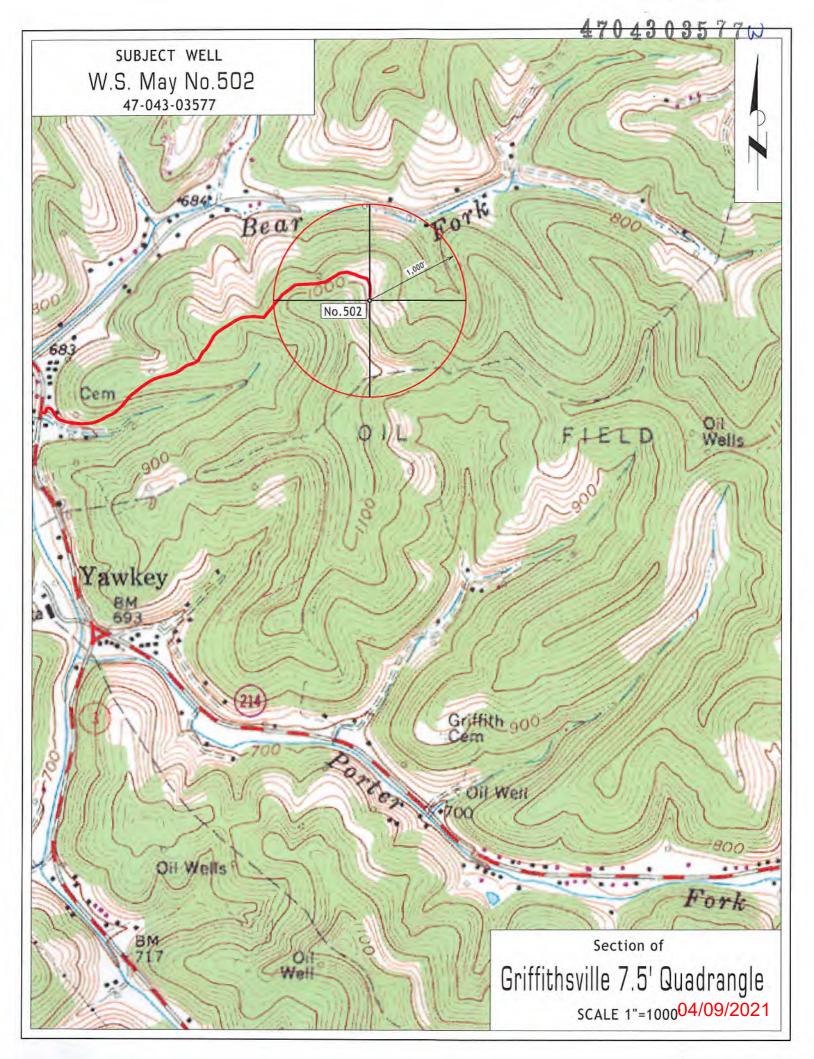
REQUESTED PERMIT IS FOR RECOMPLETION OF AN EXISTING WELL.

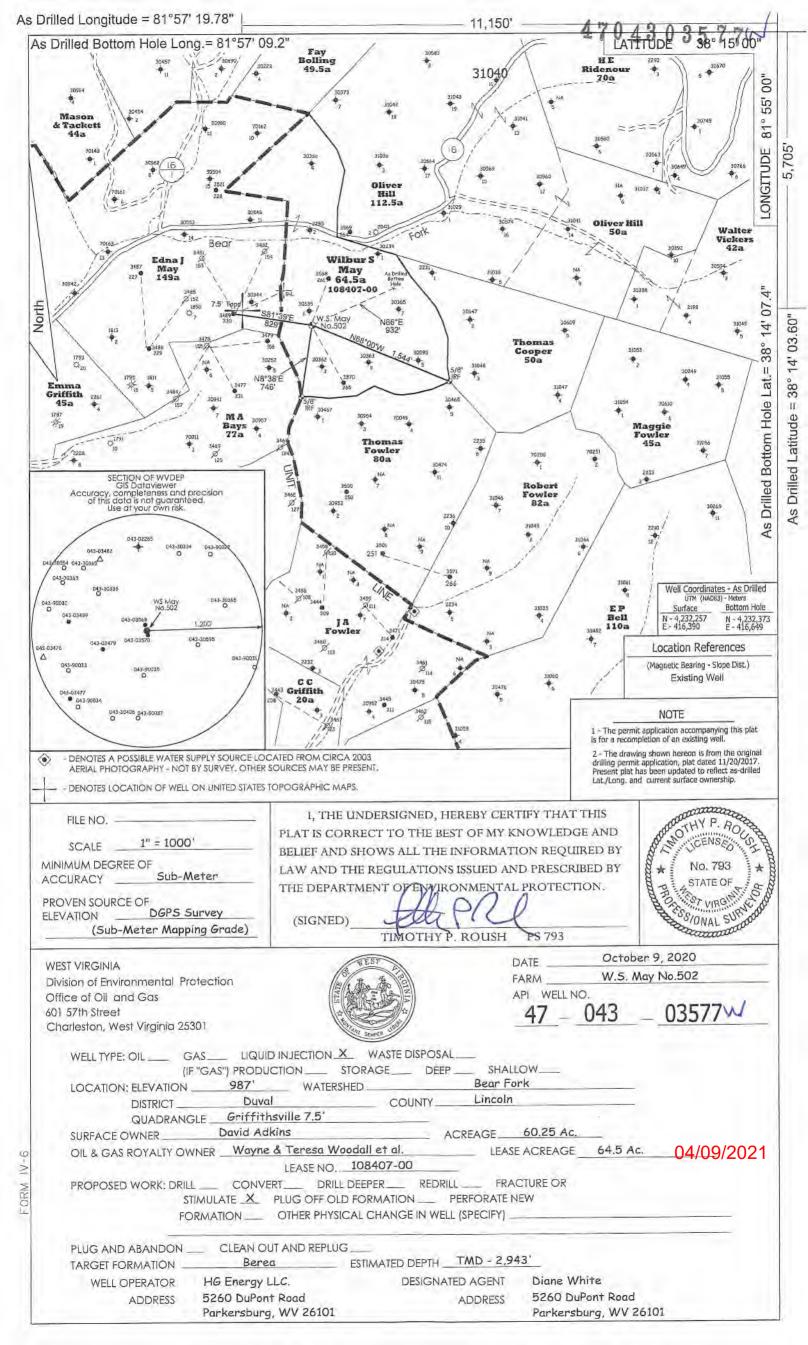
Notes:

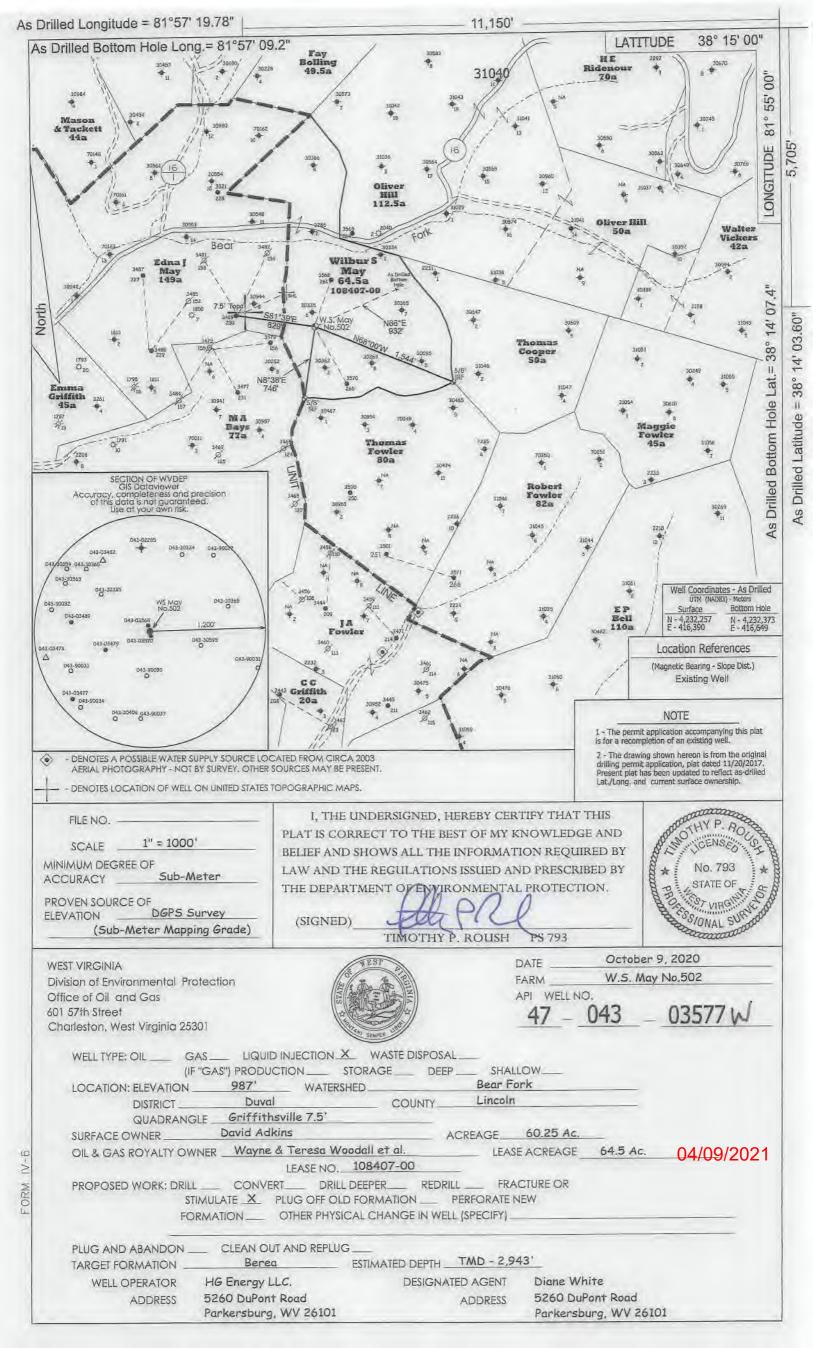
- ACCESS ROADS ARE EXISTING AND WILL BE MAINTAINED TO WVDEP STANDARDS.
- NO EARTHWORK IS ANTICIPATED FOR REQUESTED WELL WORK
- NO PIT WILL BE REQUIRED FOR REQUESTED WELL WORK.
- ANY DISTURBED AREAS WILL BE RE-VEGETATED AS OUTLINED ON FORM WW-9.
- MAINTAIN SEDIMENT BARRIERS AND DRAINAGE STRUCTURES.
- DRAWING NOT TO SCALE.

NOTE REFER TO THE WVDEP

EROSION AND SEDIMENT CONTROL FIELD MANUAL VER. MAY 2012 FOR BMPS CONTROLLING EROSION AND SEDIMENT FROM SOIL-DISTURBING OPERATIONS.









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:

W. S. May No. 502

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:

David Adkins - Certified Terry Urban - Inspector CK# 4819 Am+ \$500 Date 11/5/20

Office of Oil and Gas

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WV Department of Environmental Protection