

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

Tuesday, August 21, 2018 WELL WORK PERMIT Vertical / New Drill - Secondary Recovery

HG ENERGY, LLC 5260 DUPONT ROAD

PARKERSBURG, WV 26101

Re: Permit approval for AUSTIN GRIFFITH 164 47-043-03585-00-00

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: AUSTIN GRIFFITH 164 Farm Name: HG ENERGY LLC U.S. WELL NUMBER: 47-043-03585-00-00 Vertical New Drill - Secondary Recovery Date Issued: 8/21/2018

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 conditions may result in enforcement action.</u>

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.

FORM WW-3 (B) 1/12



1)	Date:	07/19/201	8				
2)	Operator	's Well	No.	Austi	n Griffith 164	1	
3)	API Wel	1 No.:	47	÷	43	-	\$ 0 3 5 8 5
			State		County	-	Permit
4)	UIC Peri	nit No.	UIC2	R04302	AP	_	-

650

3799

035855

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: Liqu	id Injection 🖌 /	Gas Injection (not storage) / Waste Disposal
6) LOCATION: Elevat	ion: 851'	Watershed: Straight Fork
Distric	t: Duval	County Lincoln Quadrangle Griffithsville 7.5'
7) WELL OPERATOR:	HG Energy, LLC	8) DESIGNATED AGENT Diane White
Address	5260 Dupont Road	Address 5260 Dupont Road
	Parkersburg, WV 26101	Parkersburg, WV 26101
9) OIL & GAS INSPECT	OR TO BE NOTIFIED	10) DRILLING CONTRACTOR
Name Jeffery L. Smith		Name To Be Determined Upon Approval of Permit
Address 5369 Big Tyler Ro	ad	Address
Cross Lanes, WV	25313	· · · · · · · · · · · · · · · · · · ·
14) Approximate water str	FFORMATION Berea ompleted Well, (or actual dep ata depths: Fresh <u>30</u> 0	
15) Approximate coal sear		No
16) Is coal being mined in	ire in target formation 1250	psig Source Estimated
18) Estimated reservoir fra	· · · · · · · · · · · · · · · · · · ·	psigpsig (BHFP)
	SED INJECTION OPERATI	
20) DETAILED IDENTIF		S TO BE INJECTED, INCLUDING ADDITIVES Fresh water, produced water,
21) FILTERS (IF ANY)	Cartridge filters and charcoal bed filte	15
	OR CATHODIC PROTECT	ION AND OTHER CORROSION CONTROL

CASING OR	SPECIFICATIONS				FOOTAGE INTERVALS		CEMENT	PACKERS		
TUBING TYPE	Size	Grade	Weight per ft.	New	Used	For Drilling	Left In Well	FILL –UP OR SACKS (CU. FT.)		
Conductor				Steril I			1		Kinds	
Fresh Water	7"	LS	17#	x		400'	400'	CTS		
Coal				1.					Sizes	
Intermediate		1				· · · · · · · · · · · · · · · · · · ·				2.375"
Production	4 1/2"	J-55	10.5#	x		2500'	2500'	150 sks	Depths set	
Tubing	2 3/8"	J-55	4.6#	x		2250'	2250'	· · · · · · · · · · · · · · · · · · ·	2150'	
Liners									Perforations	
									Тор	Bottom
24) APPLICANT'	S OPERA	ATING R	IGHTS W	vere acqu	ired from	Austin and Eliza	beth Griffith			

43-035855

FORM WW-3 (A) 1/12



1) Date:	July 19, 20)18				
2) Operato	or's Well	No.	Austin	Griffith No. 1	64	
3) API We	ell No.:	47	-	043		035855
		State		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,

5) Surface Ow	ner(S) To Be Served	7) (a) Coal Operator
(a) Name	HG Energy, LLC	Name NA
Address	5260 Dupont Road	Address
	Parkersburg, WV 26101	
(b) Name		7) (b) Coal Owner(S) With Declaration Of Record
Address		Name NA
		Address
(c) Name		Name
Address		Address
6) Inspector	Jeffery L. Smith	7) (c) Coal Lessee with Declaration Of Record
Address	5369 Big Tyler Road	Name NA
	Cross Lanes, WV 25313	Address
Telephone	681-313-6743	

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 18

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 am familiar with the information submitted in this document and all attachments 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 and imprisonment.

Well Operator	HG Energy, LLC					
Address	5260 Dupont Road					
	Parkersburg, WV 26101					
By:	Diane White					
By: Its:	Agent					
Signature:	Diane White					

WW-2A / 3A Surface Waiver

SURFACE OWNER WAIVER

County

Lincoln

Operator Operator well number HG Energy, LLC Austin Griffith 164

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.

Signature	_ Date	Company _ Name _ By	HG Energy, LLC Diane White	
Ū		its	Agent	Date
			Diane White	Cigitaly signed by Clanc Write "-Pate: 2018.07.20 14:49:31 -04'00"
Print Name			Signature	Date

WW-2B1 (5-12) Well No. Austin Griffith No. 164

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	Sturm Environmental
Sampling Contractor	Sturm Environmental

ont Road	
rg, WV	
119	
u	oont Road urg, WV 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.

RECEIVED Office of Oil and Gas

- See Attached Sheet -

AUG 2 0 2018

WV Department of Environmental Protection

08/24/2018

Well No.

Austin Griffith 164

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.

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 underlining which one you have selected to sample and analyze. If there are no water wells or springs within 1000 feet of the proposed site please indicate such.

Surface Owners Identified With Water Sources to be Sampled and Tested:

- Lyle & Shirley Atkins 1035 Garden Heights Drive S Charleston, WV 25309
- Dannie Cooper
 4851 Straight Fork Road
 Yawkey, WV 25573
- Kenneth Egnor
 533 Laurel Fork
 Sumerco, WV 25567
- Harold & Billie Farley
 21 Breezy Lane
 Yawkey, WV 25573
- * HG Energy, LLC
 5260 Dupont Road
 Parkersburg, WV 26101
- John & Debra Hubbard
 21 Independent Drive
 Yawkey, WV 25573

- Merri & Bernie Mallory
 9 Independent Drive
 Yawkey, WV 25573
- Mark & Jeanie Salmons
 20 Breezy Lane
 Yawkey, WV 25573
- Timothy & Loretta Thaxton
 1866 Straight Fork Road
 Yawkey, WV 25573

RECEIVED Office of Oil and Gas

AUG 20 2018

WV Department of Environmental Protection

43-035855

WW-9	
(2/15)	API Number 47 Operator's Well No. Austin Griffith No. 164
STATE OF	F WEST VIRGINIA
DEPARTMENT OF EN	VIRONMENTAL PROTECTION
OFFICE	OF OIL AND GAS
FLUIDS/ CUTTINGS DIS	SPOSAL & RECLAMATION PLAN
Operator Name_HG Energy, LLC	OP Code UIC2R04302AP
	Quadrangle Griffithsville 7.5'
Do you anticipate using more than 5,000 bbls of water to com	aplete the proposed well work? Yes No 🖌
Will a pit be used? Yes 🖌 No 🗌	
If so, please describe anticipated pit waste:	encountered while drilling
Will a synthetic liner be used in the pit? Yes	No If so, what ml.?20 ML
Proposed Disposal Method For Treated Pit Wastes:	
Land Application	
	nit Number)
Reuse (at API Number)
Off Site Disposal (Supply form W Other (Explain_	W-9 for disposal location)
Will closed loop system be used? If so, describe: No	
Drilling medium anticipated for this well (vertical and horizon	ntal)? Air, freshwater, oil based, etc. Air, Fresh Water
-If oil based, what type? Synthetic, petroleum, etc	NA
Additives to be used in drilling medium? Water, Soap, KCI	
Drill cuttings disposal method? Leave in pit, landfill, remove	d offsite, etcRemove offsite
-If left in pit and plan to solidify what medium will b	be used? (cement, lime, sawdust) NA
-Landfill or offsite name/permit number?	~
-Landfill or offsite name/permit number?	

West Virginia solid waste facility. The notice shall be provided within 24 hours of rejection and the permittee 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	Service 1	OFFICIAL SEAL NOTARY PUBLIC
Company Official (Typed Name) Diane White Company Official Title Agent		TIMCTHY P ROUSH 5260 Dupont Road Parkersburg West Virginia 26101 Commission Expires Apr 26, 2020
Subscribed and sworn before me this <u>19th</u> day of July	, 20 <u>18</u> Notary Public	RECEIVED Office of Oil and Gas
My commission expires 4/26/2020		AUG 20 2018

WV Departmental Protection

43-035855

Form	W	W	-9
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HG Energy, LLC

Proposed Revegetation Treatment: Acres Disturbed 1.25 Prevegetation pH ______ Lime _____3 Tons/acre or to correct to pH ____6.5 Fertilizer type 10-20-20 IB Fertilizer amount ______500 lbs/acre Mulch Straw 2 Tons/acre Seed Mixtures

Temporary		Permanent		
Seed Type	lbs/acre	Seed Type	lbs/acre	
Tall Fescue	40	Tall Fescue	40	
Ladino Clover	5	Ladino Clover	5	

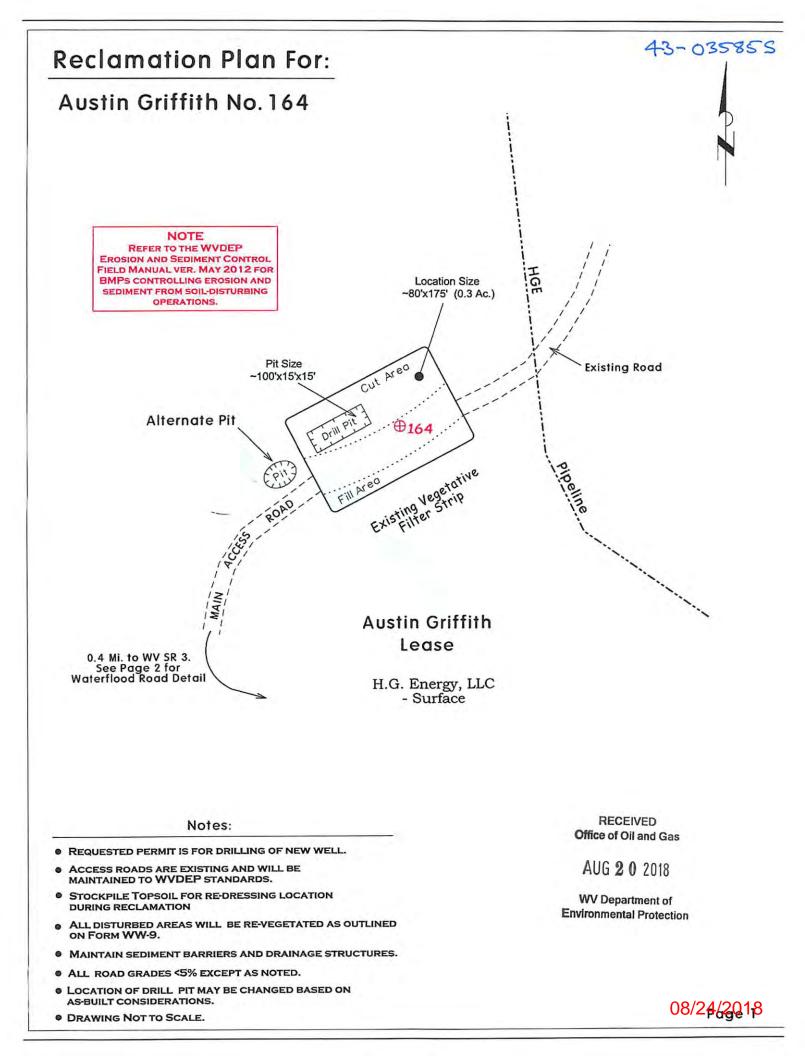
Sediment Control Will Be Maintained At All Times

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.

an Approved by: <u>c</u>	JEHERCY JUN			,	
Comments: 4//	Sed:ment	Control	to p	E remove	d privato
release					d priva to
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	·····				
itle: 0 + 1 + Ga	" Inspectar	2	Date:	7-24-18	,



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