

west virginia department of environmental protection

Office of Oil and Gas 601 57th Street SE Charleston, WV 25304 (304) 926-0450 (304) 926-0452 fax Earl Ray Tomblin, Governor Randy C. Huffman, Cabinet Secretary www.dep.wv.gov

December 28, 2015

WELL WORK PERMIT

Secondary Recovery Well

This permit, API Well Number: 47-4303556, issued to HG ENERGY, LLC, 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 all 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 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.

In addition to the applicable requirements of this permit, and the statutes and rules governing oil and gas activity in WV, this permit may contain specific conditions which must be followed. Permit conditions are attached to this cover letter.

Per 35CSR-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) 926-0499 ext. 1654.

James Martin

Operator's Well No: E. G. GRIFFITH 179

Farm Name: MCCLURE, JAMES R.

API Well Number: 47-4303556

Permit Type: Secondary Recovery Well

Date Issued: 12/28/2015

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



1)	Date:	11/02/20	115						
2)	Operato	r's Well	No.	E. (G. Griffith 179	9			
3)	API We	ell No.:	47	-	Lincoln	12	s		
			State	-	County	_		Permit	

4) UIC Permit No. UIC2R040301AP

	STATE OF	ME21 AIRC	TINIA		
INJECTION	OR WASTE	DISPOSAL	WELL	WORK PERMIT	APPLICATION

District: Doval County Lincoln Quadrangle Griffithsville 7.5) WELL TYPE:) LOCATION:		d Injection: 1075]_/		ction (not storatershed:	age)	/ W	Vaste Disposal
Note) LOCATION.		-					C-871-676	Quadrat	ngle Griffithsville 7.5'
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Parkersburg, WV 26101							o) Design		-	
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PROPOSED WELL WORK Drill Drill Drill Dr	ddress P.O.	36 Box					Address			
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WV Department of Environmental Pote 16016

FORM WW-3 (A) 1/12



November 2, 2015					
tor's Well No.		Griffith 179			
47	-		2		
State		County	_	Permit	
	No. 47	No. E. G. C	No. E. G. Griffith 179	No. E. G. Griffith 179	No. E. G. Griffith 179

4) UIC Permit No. UIC2R04301AP

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,

(b) Name Address Stephen & Shirley Eg 4540 Straight Fork Yawkey, WV 25573 (c) Name Address 6) Inspector Address P. O. Box 36 Clendenin, WV 25048 Telephone 304-951-2596	Name Address Name Address	SS
Address 6) Inspector Jeremy James Address P. O. Box 36 Clendenin, WV 25048	Address	
Address P. O. Box 36 Clendenin, WV 25048	7) (c) Coal	
	Name	
 The Application For A Liqui parties involved in the drilling The plat (surveyor's map) sho The Construction and Reclam plan for erosion and sediment 	I Injection or Waste Disposal We or other work; ving the well location on Form W	ss the well work is only to plug a well), which sets out the site and access road.
THE REASON YOU HAVE RE APPLICATION WHICH ARE SU	CEIVED THESE DOCUMENTS MMARIZED IN THE "INSTRUC	TS IS THAT YOU HAVE RIGHTS REGARDING THE COPY OF THE C
Notice and Application and accom West Virginia Department of Env Application and depicted on the att	panying documents for a Well Wo pronmental Protection, with respe- tached Form WW-6. Copies of this ailed by registered or certified mai	undersigned well operator proposes to file or has filed thi Work Permit with the Chief of the Office of Oil and Gas pect to a well at the location described on the attached this Notice, the Application, the plat, and the Constructional or delivered by hand to the person(s) named above (onailing or delivery to the Chief.
The person	signing this document shall m	make the following certification:
"I certify under penalty of law that am familiar with the information su attachments and that, based on my i	mitted in this document and all	Well Operator Address HG Energy, LLC 5260 Dupont Road Parkersburg, WV 26101
immediately responsible for obtaini the information is true, accurate and	ng the information, I believe that	By: Diane White

WV Department of 01/01/2016
Environmental Protection

NW-	2B1
(5-1)	2)

Well No. E. G. Griffith 179

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 HG Energy, LLC
Address 5260 Dupont Road

Parkersburg, WV 26101

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.

- See Attached Sheet -

RECEIVED
Office of Oil and Gas

DEC 0 7 2015

WV Department/01/2016 Environmental Protection

E G Griffith 179

WW-2B1 Well No.

Page 2 - Continued

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:

- Christopher & Bethany Dotson
 4701 Midway Road
 Yawkey, WV 25573
- * James & Carolyn McClure 4705 Midway Road Yawkey, WV 25573

RECEIVED
Office of Oil and Gas

DEC 0 7 2015

WV Department of Environmental Protection 01/01/2016

Pag	e 462	of of	
API Number 47 -		-	
Operator's Well No. E.	G. Griffith	179	

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

CONSTRUCTION AND RECLAMATION PLAN AND SITE REGISTRATION APPLICATION FORM GENERAL PERMIT FOR OIL AND GAS PIT WASTE DISCHARGE

Operator Name_HG Energy, LLC		OP Code 494497948
Watershed Porter Fork	Quad	rangle Griffithsville 7.5'
Elevation 1075'	County_Lincoln	DistrictDuval
Description of anticipated Pit Wa	ste: Fluids accumulated while drilling the	ne subject well
Do you anticipate using more tha	n 5,000 bbls of water to complete the p	roposed well work? Yes No X
Will a synthetic liner be used in t	he pit? Yes If so, wha	t mil.? 30 mil
Proposed Disposal Method For T × Land A	reated Pit Wastes: Application	
Off Si	te Disposal (Supply form WW-9 for dis	sposal location)
Other	(Explain_	<u> </u>
-If oil based, what type? Additives to be used? Water, Soa	ap, KCI	Air, Fresh Water
Will closed loop system be used		The state of the s
-If left in pit and plan to		ement, lime, sawdust Native soil, cement and lime
on August 1, 2005, by the Office provisions of the permit are enfolaw or regulation can lead to enform I certify under penalty application form and all attachobtaining the information, I bel	of Oil and Gas of the West Virginia De orceable by law. Violations of any terrorcement action. of law that I have personally examine ments thereto and that, based on my	s of the GENERAL WATER POLLUTION PERMIT issu partment of Environmental Protection. I understand that to or condition of the general permit and/or other applicable and am familiar with the information submitted on the inquiry of those individuals immediately responsible trate, and complete. I am aware that there are significate or imprisonment.
Company Official Signature	Diane White	
Company Official (Typed Name	Diane White	OFFICIAL SEAL NOTARY PUBLIC STATE OF WEST VIRGINIA
Company Official Title Agent		TIMOTHY P. ROUSH P. O. Box 5519 Vienna, West Virginia 26105 My Commission Expires Apr. 26, 2020
Subscribed and sworn before me	this 2nd day of November	Office5of Oil and Gas
All	0	DEC 0 7 2015
My commission expires	4/26/2020	WV Department of 1/01/20 Environmental Protection

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Property Boundary	Diversion exercises exercises and the exercises of the exercises are the exercises and the exercises are the exercises and the exercises are the exercise are the exercises are the exercise are the exerc
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Existing Fence — X — X — X —	Wet Spot
Planned Fence / / /	Drain Pipe with size in inches
Stream	Waterway \longleftrightarrow
Open Ditch	Cross Drain 7/1/1/1/1/1/
Rock Egg gg	Artificial Filter Strip
North N	Pit: cut walls
Buildings	Pit: compacted fill walls
Water wells	Area for Land Application of Pit Waste
Drill site	
<u> </u>	
Proposed Revegetation Treatment: Acres Disturbed	Prevegetation pH
Lime 3Tons/acre or to correct to pH _	
Fertilizer (10-20-20 or equivalent) 500 lbs/a	cre (500 lbs minimum)
Mulch_Straw 2 Tons/acr	_
Mulch Tons/acr	e
Seed	Mixtures
Area I	Area II
Seed Type lbs/acre	Seed Type lbs/acre
Tall Fescue 40	Tall Fescue 40
	Ladino Clover 5
Ladino Clover 5	Ladino Clover 5
Sediment Control Should Be In Place At	All Times
Sediment Control Chodid BC III 1 lace At	74ii Times
Attach:	
Drawing(s) of road, location,pit and proposed area for land applied	eation.
Photocopied section of involved 7.5' topographic sheet.	
r notocopied seedon of involved 7.5 topograpme sheet.	
Plan Approved by:	
	h prior todrilling
Comments: Seed T Mulc	, DECEIVED
	Office of Oil and Gas
Title: inspector OOG	Date: 11-20-15 DEC 0 7 2015
Lincoln	
Field Reviewed? () Yes (ONO WV Department of Protection
	Environmental Protection









