

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

June 30, 2015

WELL WORK PERMIT

Secondary Recovery Well

This permit, API Well Number: 47-4303474, 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

Chief

Operator's Well No: EMMA GRIFFFFF 135

Farm Name: PARKER, LIONEL & LINDA, BRU

API Well Number: 47-4303474

Permit Type: Secondary Recovery Well

Date Issued: 06/30/2015

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. <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 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.



1) Date: 0	4/22/2015	5					
2) Operator's	Well N	0.	Em	ma Griffith 13	35		
3) API Well 1	No.:	47	-	Lincoln	-	s	
		State		County			Permit
4) UIC Permi	it No.	UIC2	R043	01AP			

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

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APR 2 7 2015

CK#	3006 00
CK+	\$650

FORM WW-3 (A) 1/12



1) Date:	April 21,	2015				
2) Operate	or's Well	No.	Emma	Griffith 13	5	
3) API W	ell No.:	47	1-		2	
		State		County		Permit
4) UIC Per	rmit No.	UIC2	R04301	AP		

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,

Surface Ow			
(a) Name Address	Lionel & Linda Parker Nam 5008 Straight Fork Road Addr		
Address	Griffithsville, WV 25521		
(b) Name	Joshua Brumfield 7) (b) C	oal Owner(S) With E	Declaration Of Record
Address	31 Vandalia Drive Nam		
Address	Yawkey, WV 25573 Addu		
(c) Name	Nam		
Address	Addi	e/kip	
Addiess			
) Inspector	Ralph Triplett 7) (c) C	oal Lessee with Deck	aration Of Record
Address	5539 McClellan Hwy Nam		The state of the s
1100.000	Branchland, WV 25506 Addi		
Telephone	304-389-0350		
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WW-2B1 (5-12)

Well No.	Emma	Griffith	135
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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 Laboratory Name Sturm Environmental Labs Sturm Environmental Labs **Sampling Contractor** Well Operator HG Energy, LLC

5260 Dupont Road Address

Parkersburg, WV 26101

304-420-1119 Telephone

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

APR 2 7 2015

Office of Oil and Gas VVV Dept. of Environmental Protection WW-2B1 Well No. Emma Griffith 135

Page 2 - Continued

West Virginia Department of Environmental Protection Office of Oil and Gas

NOTICE TO SURFACE OWNERS

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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:

- Joshua Brumfield
 Vandalia Drive
 Yawkey, WV 25573
- David Brumfield
 5000 Straight Fork Road
 Griffithsville, WV 25521
- Lionel & Linda Parker
 5008 Straight Fork Road
 Griffithsville, WV 25521



APR 2 7 2015

Office of Oil and Gas WV Dept. of Environmental Protection WW-9 Rev. 5/10

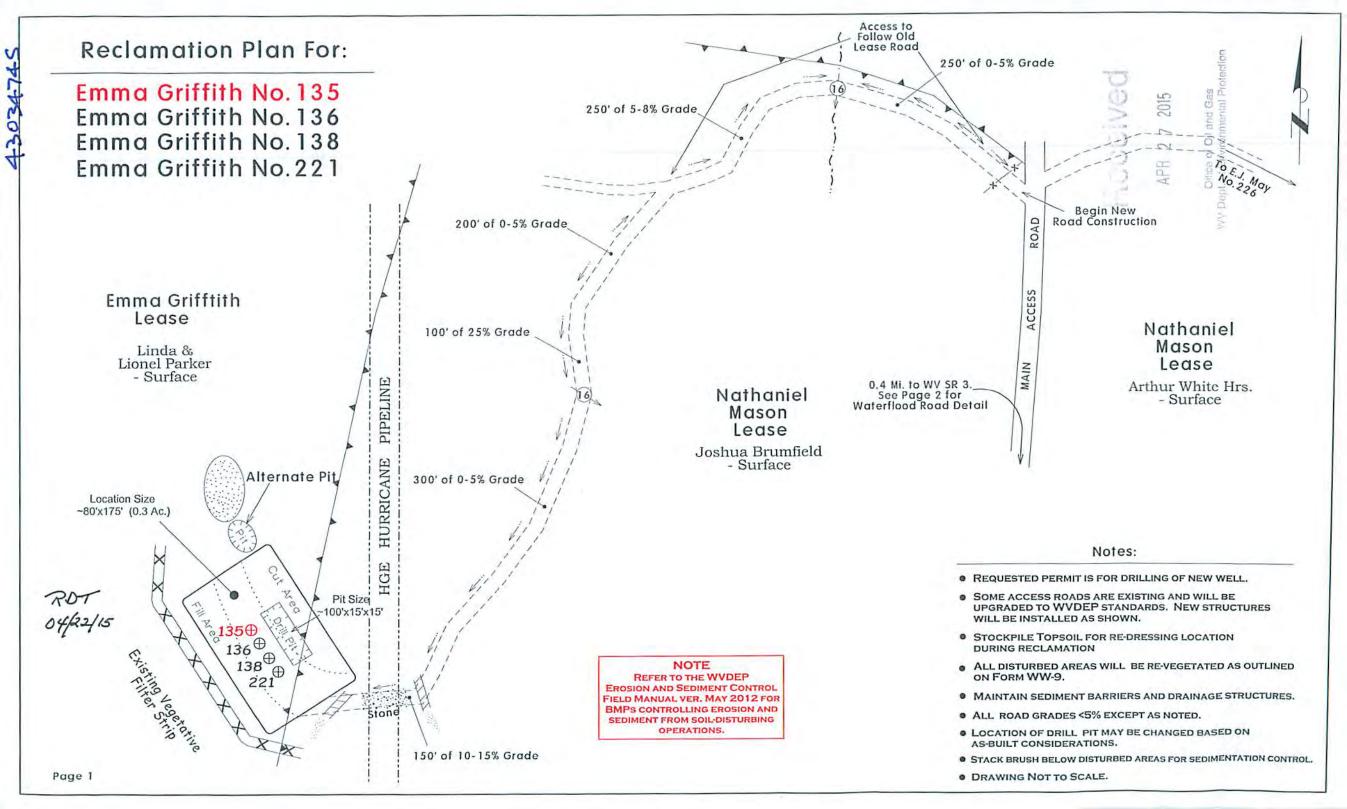
P	age 459	of
API Number 47		
Operator's Well No.	Emma Griffith	135

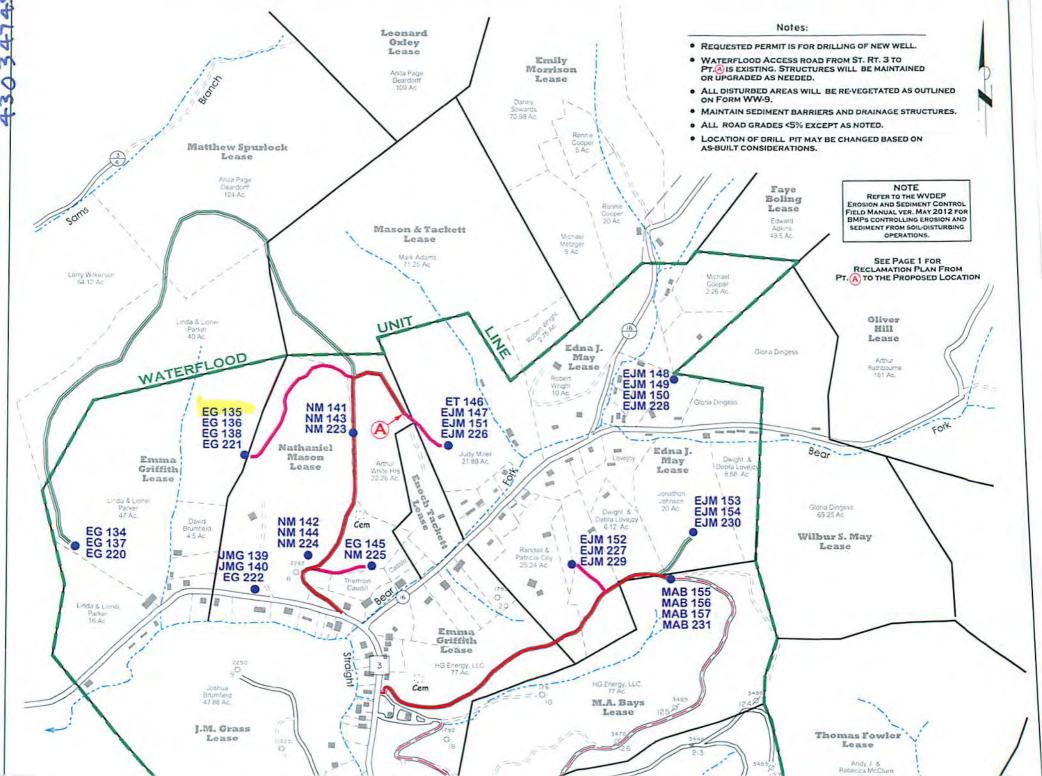
STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION OFFICE OF OIL AND GAS

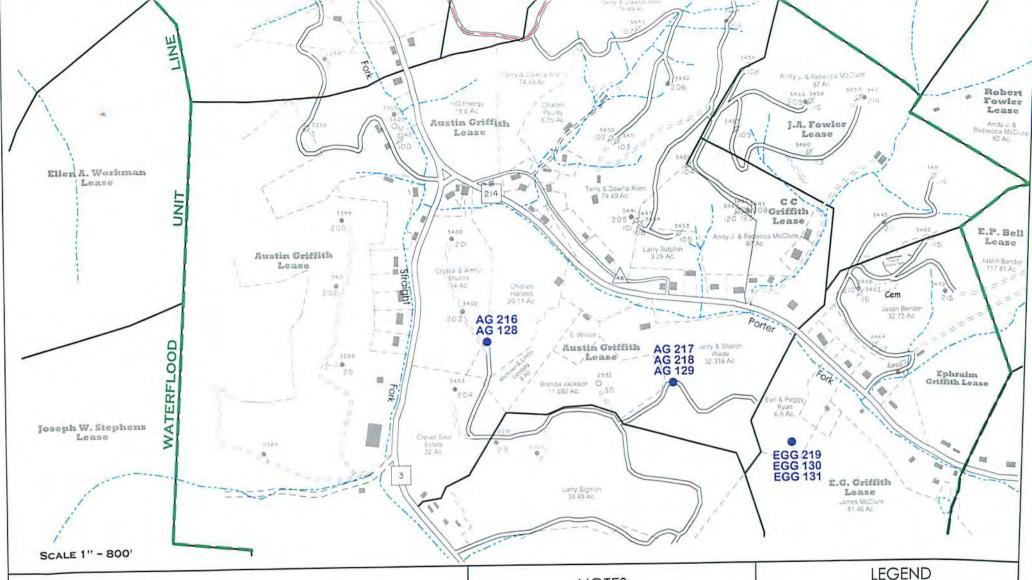
CONSTRUCTION AND RECLAMATION PLAN AND SITE REGISTRATION APPLICATION FORM
GENERAL PERMIT FOR OIL AND GAS PIT WASTE DISCHARGE

Operator Name_HG Energy, LLC		OP Code 494497948
Watershed Straight Fork		Quadrangle Griffithsville 7.5
Elevation 910'		
Description of anticipated Pit Wa	aste: Fluids accumlated while	nile drilling the subject well
Do you anticipate using more the	an 5,000 bbls of water to com	omplete the proposed well work? Yes No _X
Will a synthetic liner be used in	the pit? Yes	. If so, what mil.? 20 Mil
Proposed Disposal Method For * Land Unde	Freated Pit Wastes: Application ground Injection (UIC Perr	ermit Number)
Off S	e (at API Numberite Disposal (Supply form W (Explain	WW-9 for disposal location)
Drilling medium anticipated for -If oil based, what type Additives to be used? Water, So	? Synthetic, petroleum, etc. 1	oil based, etc. Air, Fresh Water
Will alored loop system be used	2 No	
Drill cuttings disposal method? -If left in pit and plan t -Landfill or offsite nam	solidify what medium will	If be used? Cement, lime, sawdust_Native soil, cement and lime
on August 1, 2005, by the Office provisions of the permit are en law or regulation can lead to en I certify under penalty application form and all attace obtaining the information. I be	e of Oil and Gas of the West forceable by law. Violations forcement action, of law that I have personal threats thereto and that, be allieve that the information is	and conditions of the GENERAL WATER POLLUTION PERMIT issuest Virginia Department of Environmental Protection. I understand that it is of any term or condition of the general permit and/or other applications of any term or condition of the general permit and/or other applications on any inquiry of those individuals immediately responsible to its true, accurate, and complete. I am aware that there are significant of the protection of the protection in the protection of the protection.
penalties for submitting false in	51.1	* 10 mm
penalties for submitting false in	Diane White	te
penalties for submitting false in		* 10 mm
penalties for submitting false in Company Official Signature		te

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Property Boundary Rond = = = = = = = = = = = = = = = = = = =	= = = = = = = = = = = = = = = = = = =	Oiversion Spring Wet Spot Drain Pipe with size in incl	hes — © — — — — — — — — — — — — — — — — —
Proposed Revegetation Treatment: Lime3T Fertilizer (10-20-20 or equently straw)	ivalent) 500 lbs/	6.5 /acre (500 lbs minimum)	on pH
Arca I Seed Type Tall Fescue	lbs/acrc	Scood Type Tall Fescue	Area II lbs/acre 40
Ladino Clover	5	Ladino Clover	5
Sediment Control sho	ould be in place at	all times	
Attach: Drawing(s) of road, location,pit and Photocopied section of involved 7.		olication.	Noolvod
Plan Approved by: Rasple D	Triplat)		APR 2 7 2015
Comments:			Office of Oil and Gas WV Dopt of Environmental Protection
Title: District Inspect	n) Yes (Date: <i>April</i> 22	, 2015









MARCH 3, 2015

GRIIFTHSVILLE WATERFLOOD

Lincoln County, W.Va.

RECLAMATION PLAN SHOWING ROAD SYSTEMS TO BE USED FOR 2015 **DRILLING PROGRAM** (NORTH)

NOTES

- 1. REFER TO THE WVDEP EROSION AND SEDIMENTATION CONTROL MANUAL (VER. MAY 20, 2013) FOR BMP'S CONTROLLING **EROSION AND SEDIMENTATION FROM ALL** SOIL-DISTURBING OPERATIONS.
- 2. SEE PAGE ONE OF RECLAMATION PLAN FOR DETAILS OF NEW ROAD CONSTRUCTION AND ROAD UPGRADES FROM POINT A TO DRILL SITE LOCATION.
- 3. EXISTING WATERFLOOD ACCESS ROADS WILL BE MAINTAINED IN PRESENT CONDITION. THESE ROADS WERE CONSTRUCTED UNDER CONDITIONS SET FORTH IN VARIOUS DRILLING PERMITS ISSUED BY WVDEP-OOG PRIOR TO 2015 (AS SHOWN). SEE PERMITS ON FILE FOR MORE DETAIL.

EXISTING WATERFLOOD ROADS TO BE USED.

OTHER EXISTING MAIN WATERFLOOD ROADS (POSSIBLE ACCESS). EXISTING LEASE OR

FARM ROADS TO BE UPGRADED.

NEW ROADS TO BE CONSTRUCTED.

AG 216 LOCATION FOR PROPOSED WELLS

> POTENTIAL WATER SUPPLY SOURCE TO BE SAMPLED (LOC. APPROX.)

PAGE 2

