

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

August 05, 2015

WELL WORK PERMIT

Secondary Recovery Well

This permit, API Well Number: 47-4303518, 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: EDNA MAY 148

Farm Name: COOPER, JOHNNY ET AL

API Well Number: 47-4303518

Permit Type: Secondary Recovery Well

Date Issued: 08/05/2015

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 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: 06/17/2	015					
2) Operator's Well	No.	Edi	na May 148			
3) API Well No.:	47	-	Lincoln	-	S	
	State	-	County			Permit

4) UIC Permit No. UIC2R04301AP

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

6) LOCATION: Elevation: 804 Watershed: Bear Fork Output Lincolon 1/3 Quadrangle Griffithswille 7.5' 3.75' 7) WELL OPERATOR: Hg Energy, LLC Address 5280 Dupont Road Parkersburg, WV 25101 9) OIL & GAS INSPECTOR TO BE NOTIFIED 10) DRILLING CONTRACTOR Name Raph Triplett Address 5539 McClellan Hvy Branchland, WV 25056 11) PROPOSED WELL WORK Drill V Drill deeper Address To Be Determined Upon Approval of Permit Address S539 McClellan Hvy Branchland, WV 25056 Drill V Drill deeper Address To Be Determined Upon Approval of Permit Address S539 McClellan Hvy Branchland, WV 25056 Drill V Drill deeper Address To Be Determined Upon Approval of Permit Address Drill V Drill deeper Address To Be Determined Upon Approval of Permit Address Drill V Drill deeper Address Drill V Drill Drill V Drill V Drill Drill V Drill Drill V Drill V	5) WELL			I Injectio	n v	_/		tion (not storag		_ / Wa	aste Disposal	
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FORM WW-3 (A) 1/12



1) Date:	June 17, 2	015				
2) Operato	r's Well	No.	Edna M	May 148		
3) API We		47				
		State		County	Permit	
4) UIC Per	mit No	LIIC2	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,

5) Surface Ow	mer(S) To Be Served 7)	(a) Coal Operator	
(a) Name		Name NA	
Address	P. O. Box 175	Address	
	Yawkey, WV 25573		
(b) Name	Gloria Dingess / 7)	(b) Coal Owner(S) With D	Declaration Of Record
Address	5109 Straight Fork Road	Name NA	
	Griffithsville, WV 25521	Address	
(c) Name	Michael & Pam Cooper	Name	
Address	46 Torque Drive	Address	
	Yawkey, WV 25573		
6) Inspector	Ralph Triplett 7)	(c) Coal Lessee with Decla	aration Of Record
Address	5539 McClellan Hwy	Name NA	
511-01-00		Address	
Telephone	304-389-0350	**************************************	
(3) The Cons	direction and rectamation rian on roin www.	(dimess the men mon is	only to plug a well), which sets out the
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WW-2B1 (5-12)

Well No. Edna May 148

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 Lab
Sturm Environmental Lab

Well Operator HG Energy, LLC
Address 5260 Dupont Road

Parkersburg, WV 26101

Telephone 304-420-1119

Received

FOR OPERATOR'S USE ONLY: Below, or on an attached page, list those persons which were 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 -

Well No.

Edna J May 148

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:

- * Michael Cooper P. O. Box 32 Yawkey, WV 25573
- Angela Stump
 5172 Midway Road
 Yawkey, WV 25573
- Jonathan Johnson
 Bethel Drive
 Yawkey, WV 25573
- * Dwight Lovejoy 5 Bethel Drive Yawkey, WV 25573
- * Robert Wright
 P. O. Box 166
 Griffithsville, WV 25521
- John Chandler
 62 Bear Fork Road
 Yawkey, WV 25573

- * Johnny Cooper P. O. Box 32 Yawkey, WV 25573
- Gloria Dingess
 5109 Straight Fork Road
 Griffithsville, WV 25521
- * Tammy Mahone 6 Anchor Drive Yawkey, WV 25573
- Carolyn Brogan
 4553 Midway Road
 Yawkey, WV 25573
- David Terlikowski
 P. O. Box 173
 Griffithsville, WV 25521
- * Davy Pauley
 72 Sunset Drive
 Sumerco, WV 25567

Received
Office of Oil & Gas
JUL 9 6 2015

WW-9 Rev. 5/10

Pag	e 154	_ of	
API Number 47			
Operator's Well No. Ed	Ina May 148		

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

•	JENERAL PERMIT FOR OIL AND GA		
Operator Name HG Energy, LLC	<u> </u>	OP Code 4944979	48
Watershed Bear Fork	Quad	frangle Griffithsville 7.5'	
Elevation 804'	County_Lincoln	District Duval	
Description of anticipated Pit W	Vaste: Fluids encountered while drilling s	ubject shallow well	
	han 5,000 bbls of water to complete the p		No <u>×</u>
Vill a synthetic liner be used in	the pit? Yes	at mil.? 20 mil	
Proposed Disposal Method For			
_x Land	d Application		
	erground Injection (UIC Permit Numbe		<u> </u>
	se (at API Number)
	Site Disposal (Supply form WW-9 for dier (Explain		
Out	· (Expluii		
Drilling medium anticipated for	r this well? Air, freshwater, oil based, etc	c. Air, Fresh Water	
-If oil based, what type	e? Synthetic, petroleum, etc. NA		
Additives to be used? Water, S			
Vill closed loop system be used	d? <u>No</u>	1 ! !!	
Orill cuttings disposal method?	Leave in pit, landfill, removed offsite, e	tc. Leave in pit	L cement lime
	to solidify what medium will be used? C		
-Landilli of offsite nar	me/permit number?		
on August 1, 2005, by the Office provisions of the permit are en aw or regulation can lead to en I certify under penalty application form and all attack obtaining the information, I be	y of law that I have personally examine thements thereto and that, based on my elieve that the information is true, accomformation, including the possibility of fixed white	epartment of Environmental Prom or condition of the general part and am familiar with the inguiry of those individuals urate, and complete. I am	ntection. I understand that termit and/or other applicant on the immediately responsible to the control of the
·	,		
Company Official Title Agent			
		<u>.</u>	
Subscribed and sussen before	ne this 17th day of June	20 15	OFFICIAL SEAL
Subscribed and sworn before m	day of some		NOTARY PUBLIC
A1.	Gine Bull -	A RELIEF SI	ATE OF WEST VIRGINIA S ANNE DULANEY
	- Juney		5 5250 Dupont Road erspurg West Virginia 26101
My commission expires	1.4 5016		mmission Expires Oct. 4, 2016
., common expires			

Operator's Well No. Edna May 148

		LEGEND	
Property Boundary		Diversion executive test	
Road = = = = = :		Spring O-b	
Existing Fence — 🗴 .	_ × _ × _	Wet Spot	
Planned Fence / _	_/_/_	Drain Pipe with size in inches	—— @ ——
	11. 12 11	Waterway	
Open Ditch	· · · · · · · · · · · · · · · · · · ·	Cross Drain	
North N	7500	Artificial Filter Strip XXXX Pit: cut walls	
Buildings Buildings		Pit: compacted fill walls	muy
Water wells (W)		Area for Land Application of P	France C
Drill site		Area for Land Application of P	
Proposed Revegetation Treating Lime3 Fertilizer (10-20-20	Tons/acre or to correct to pH	Prevegetation pF 6.5 //acre (500 lbs minimum)	I
_{Mulch} Straw	2 _{Tons/a}	acre	
· · · · · · · · · · · · · · · · · · ·		d Mixtures	
Are			a II
Seed Type	lbs/acre	Seed Type	ea II lbs/acre
Tall Fescue	40	Tall Fescue	40
Ladino Clover	5	Ladino Clover	5
Attach: Drawing(s) of road, location,p	to be Maintained at a		
Photocopied section of involv	ed 7.5' topographic sheet.		
Plan Approved by: Rolpok	D. Tripeal		
Comments:			
	<u> </u>		
Title: District In	Appedick)	Date: June 26, 20/	<u>s</u>
Field Reviewed?	\Vec () No U	







