

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

Vertical Well

This permit, API Well Number: 47-4303521, 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: EDNA MAY 228

Farm Name: COOPER, JOHNNY ET AL

API Well Number: 47-4303521 Permit Type: Vertical 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.

08/07/2015

WW - 2B (Rev. 8/10)

Packers: Kind:

Sizes:

Depths Set

STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS WELL WORK PERMIT APPLICATION

						2	385
1) Well Opera	tor: HG	Energy,	LLC	494497948	Lincoln	Duval	Griffithsville
	-			Operator ID	County	District	Quadrang
2) Operator's	Well Numl	ber:_Edi	na May 228	-	3) Elevation:	804'	
4) Well Type:	(a) Oil>	or G	as				
	(b) If Gas:	Produ	uction / Un	derground Sto	orage		
		Dee	p/ 8	Shallow X	_		
6) Proposed 1	otal Depth e fresh wa	n: <u>2445'</u> iter strata): Berea Feet a depths: 180' s: 1030'	Formation at	Proposed Tat	al Depth: _Be	erea
9) Approximate	e coal sea	m depth	s: _230'				
		niho (oo	al Karet other):	NA			
10) Approxima	ite void de	puns, (co	ai, Maist, Utilei).	1.47			
11) Does land	contain co	oal seam	ns tributary to ac	tive mine? _	NA attach additiona	al sheets if ne	eded)
11) Does land 12) Describe pr prill and stimu	contain co	oal seam Il work ar luction v	ns tributary to ac and fracturing methodel in the Ber ASING AND TU	tive mine? _ nods in detail (a rea. Stimula	attach additiona tion will be	small hydrai	ulic fractur
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11) Does land 12) Describe pr Orill and stimu 13) TYPE Conductor Fresh Water Coal Intermediate	contain contai	ll work ar luction v	ns tributary to acount fracturing method fracturing method well in the Beresel Sing AND TU	tive mine?nods in detail (area. Stimula) BING PROGE FOOTAGE For Drilling 330'	Attach additionation will be tion will be ti	CEMEI Fill -up (Cu Cement to	NT Ft.) Surface

WW-2	2A
(Rev.	6-14)

1). Date: June 18, 2015

2.) Operator's Well Number Edna May 228

State County

Permit

3.) API Well No .:

47- Lincoln -

STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS NOTICE AND APPLICATION FOR A WELL WORK PERMIT

(a) Name	vner(s) to be served:	5) (a) Coal Op	erator
	John & Tammy Cooper	Name	NA
Address	P. O. Box 175	Address	
	Yawkey, WV 25573		
(b) Name	Michael & Pam Cooper	(b) Coal C	Owner(s) with Declaration
Address	46 Torque Drive	Name	NA
	Yawkey, WV 25573	Address	
(c) Name	Gloria Dingess	Name	
Address	5109 Stt Fork Road	Address	
	Griffithsville, WV 25521		
6) Inspector	Ralph Triplett	(c) Coal L	essee with Declaration
Address	5539 McClellan Hwy	Name	NA
	Branchland, WV 25506	Address	
Telephone	Dramemaria, 111 2000	- 13775	
0.000	TO THE PERSONS NAM	MED ABOVE T	AKE NOTICE THAT:
Included is			acts by which I hold the right to extract oil and gas
OR	, Const. 10 10 10 10 10 10 10 10 10 10 10 10 10		,
Included is t	he information required by Chapter 22,	Article 6, Section	on 8(d) of the Code of West Virginia (see page 2)
I certify	that as required under Chapter 22-6	of the West Viro	inia Code I have served copies of this notice and
			ugh on the above named parties by:
400	Personal Service (Affidavit attac	hed)	
	Certified Mail (Postmarked posta	al receipt attache	ed)
2.5	Publication (Notice of Publication	n attached)	
		35 CSR 4, and	I agree to the terms and conditions of any permi
issued under thi			
1	under penalty of law that I have perso	onally examined	
I certify	and and all attaches and a solution to	and of the many twenty	and am familiar with the information submitted on
this application	form and all attachments, and that bas	sed on my inqui	ry of those individuals immediately responsible for
this application obtaining the inf	form and all attachments, and that bas ormation, I believe that the information	sed on my inqui is true, accurate	ry of those individuals immediately responsible for and complete.
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The Office of Oil and Gas processes your personal information, such as name, address and phone number, as a part of our regulatory duties. Your personal information may be disclosed to other State agencies or third parties in the normal course of business or as regulatory requirements, including Freedom of Information Act requests. Our office will appropriately secure your personal information. If you have any questions about our use of your personal information, please contact DEP's Chief Privacy Officer at depprivacyofficer@wv.qov

WW.	-2A	1
(Rev.	1/1	1)

Ope	rator's	Well	Number
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Edna May 228

INFORMATION SUPPLIED UNDER WEST VIRGINIA CODE Chapter 22, Article 6, Section 8(d) IN LIEU OF FILING LEASE(S) AND OTHER CONTINUING CONTRACT(S)

Under the oath required to make the verification on page 1 of this Notice and Application, I depose and say that I am the person who signed the Notice and Application for the Applicant, and that -

- (1) the tract of land is the same tract described in this Application, partly or wholly depicted in the accompanying plat, and described in the Construction and Reclamation Plan;
- (2) the parties and recordation data (if recorded) for lease(s) or other continuing contract(s) by which the Applicant claims the right to extract, produce or market the oil or gas are as follows:

Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book/Page
Vera May Krebs, et al	Pennzoli Company	1/8	35/154

*** See attached ***

Acknowledgement of Possible Permitting/Approval In Addition to the Office of Oil and Gas

The permit applicant for the proposed well work addressed in this application he reby a cknowledges the possibility of the need for permits and/or approvals from local, state, or federal entities in addition to the DEP, Office of Oil and Gas, including but not limited to the following:

- WV Division of Water and Waste Management
- WV Division of Natural Resources
- WV Division of Highways
- U.S. Army Corps of Engineers
- U.S. Fish and Wildlife Service
- County Floodplain Coordinator

The applicant further acknowledges that any Office of Oil and Gas permit in no way oxagridates, or nullifies the need for other permits/approvals that may be necessary and further affirms that alded permits/approvals should be ac quired from the appropriate aut hority before the affected activity is initiated.

	HG Energy, LLC		
Well Operator:	HG Energy, LLC		
By: Its:	Diane White, Agent	Diane White	
			

Form	WW-2A(1)
(10/10	0)	

Operator's Well No.	Edna May 228
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Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book/Page
Vera May Krebs, et al	Pennzoil Company	1/8	35/154

Merger and Conveyance dated July 3, 1963, from South Penn Oil Company to Penzoil Company, Kanawha County, Book 153, Page 35,

Assignment, Conveyance and Bill of Sale dated December 28, 1998, from Pennzoil Company to Pennz Energy Exploration and Production, Wetzel County, Book 12, Page 177.

Certificate of Merger filed with the WV Secretary of State, December 31, 1999, whereby Pennz Energy Exploration and Production, successor in interest to; to Penzoil Company, merged with Devon Energy Production Company, LP, Wetzel County, Book 12, Page 278.

Deed, Assignment and Bill of Sale dated June 1, 2000, from Devon Energy Production Company, LP to East Resources, Inc., recorded in Wetzel County, Book 370, Page 580.

Assignment, Conveyance and Bill of Sale, dated January 1, 2011, from East Resources, Inc., to HG Energy, LLC, Wetzel County, Book 118A, Page 253.

Upon information and belief, Operator's lease and/or other real property rights permit it to conduct drilling perations for the subject well in the location shown on the plat, including the use of access roads, pipelines and utilities.

Acknowledgement of Possible Permitting/Approval In Addition to the Office of Oil and Gas

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WV Division of Water and Waste Management WV Division of Natural Resources WV Division of Highways U.S. Army Corps of Engineers US Fish and Wildlife Service County Floodplain Coordinator Received
Office of Oil & Gas
JUL 0 6 2015

Well Operator:	HG Energy, LLC			
Ву:	Diane C. White	Diane	White	
lts:	Accountant			_

WW-2B1 (5-12)

Well N	٧o.	Edna	May	228
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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

Sampling Contractor 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 & Gas
JUL 0 6 2015

Well No.

Edna J May 228

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;

- * Michael Cooper P. O. Box 32 Yawkey, WV 25573
- * Johnny Cooper P. O. Box 32 Yawkey, WV 25573
- Angela Stump
 5172 Midway Road
 Yawkey, WV 25573

- Gloria Dingess
 5109 Straight Fork Road
 Griffithsville, WV 25521
- Jonathan Johnson
 Bethel Drive
 Yawkey, WV 25573
- * Tammy Mahone 6 Anchor Drive Yawkey, WV 25573

Dwight Lovejoy
 5 Bethel Drive
 Yawkey, WV 25573

- Carolyn Brogan
 4553 Midway Road
 Yawkey, WV 25573
- * Robert Wright
 P. O. Box 166
 Griffithsville, WV 25521
- David Terlikowski
 P. O. Box 173
 Griffithsville, WV 25521
- John Chandler62 Bear Fork RoadYawkey, WV 25573
- * Davy Pauley
 72 Sunset Drive
 Sumerco, WV 25567

Received Office of Oil & Gas JUL 06 2015 WW-9 (5/13)

My commission expires_

	Page of
API Number 47 -	
Operator's Well N	O, Edna May 228

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

FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

Operator Name HG Energy, LLC	OP Code 494497948
Watershed (HUC 10) Bear Fork	Quadrangle Griffithsville 7.5'
Elevation 804' County Lincoln	District Duval
Do you anticipate using more than 5,000 bbls of water to compl	ete the proposed well work? Yes No ×
Will a pit be used for drill cuttings? Yes X No	
If so, please describe anticipated pit waste: Fluids end	countered while drilling subject well
Will a synthetic liner be used in the pit? Yes x	No If so, what ml.? 20 mil
Proposed Disposal Method For Treated Pit Wastes:	
Land Application	
	Number)
Reuse (at API Number_	
Off Site Disposal (Supply form WW Other (Explain	-9 for disposal focation)
Will closed loop system be used? No	
Drilling medium anticipated for this well? Air, freshwater, oil b	ased, 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, removed of	offsite, etc. Leave in pit
-If left in pit and plan to solidify what medium will be	used? (cement, lime, sawdust) Native soil, cement, lime
-Landfill or offsite name/permit number?	
on August 1, 2005, by the Office of Oil and Gas of the West Vir provisions of the permit are enforceable by law. Violations of law or regulation can lead to enforcement action. I certify under penalty of law that I have personally application form and all attachments thereto and that, based obtaining the information, I believe that the information is tr penalties for submitting false information, including the possibil	onditions of the GENERAL WATER POLLUTION PERMIT issued ginia Department of Environmental Protection. I understand that the any term or condition of the general permit and/or other applicable examined and am familiar with the information submitted on this on my inquiry of those individuals immediately responsible for ue, accurate, and complete. I am aware that there are significant ity of fine or imprisonment.
Company Official Signature Diane White	Received
Company Official (Typed Name) Diane White	Office of Oil & Gas
Company Official Title_Agent	HH 08:2015
Subscribed and sworn before me this 18th day of Ju	ne Notary Public STATE OF WEST VIRGINIA S. DIANNE DULANEY 5260 Dupont Road Parkersburg, West Virginia 26101 Notary Public My Commission 08/07/2015

Proposed Revegetation Trea	atment: Acres Disturbe	_d 1.0 ad	cres	_ Prevegetati	on pH	
Lime3	Tons/acre or to d	orrect to pH	6.5			
Fertilizer (10-20-2	0 or equivalent)50)0 _{lbs/a}	acre (500 lbs mi	nimum)		
Mulch Straw		Tons/ac	·	,		
		Seed	Mixtures			
	rea I				Area II	
Seed Type	lbs/acre			Seed Type		lbs/acre
Tall Fescue	40		Tall Fest	cue		40
Ladino Clover	5		Ladino C	lover		5
rawing(s) of road, location			cation.			
Prawing(s) of road, location hotocopied section of invol	lved 7.5' topographic sh	eet.	· · · · · · · · · · · · · · · · · · ·			
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Prawing(s) of road, location hotocopied section of invol	lved 7.5' topographic sh	eet.	· · · · · · · · · · · · · · · · · · ·			
Prawing(s) of road, location brothotocopied section of invol	lved 7.5' topographic sh	eet.	· · · · · · · · · · · · · · · · · · ·			
	lved 7.5' topographic st	eet.				
Prawing(s) of road, location Photocopied section of invol	lved 7.5' topographic st	neet.				





