

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

January 28, 2014

WELL WORK PERMIT

Vertical Well

This permit, API Well Number: 47-3305808, 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: S.E. ADAMS NO. 249

Farm Name: NARDELLA, MICHAEL & MARIA

API Well Number: 47-3305808 Permit Type: Vertical Well

Date Issued: 01/28/2014

Promoting a healthy environment.

Page	3	of	4	3705808	
	-				

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

1)	Well Operato	or: HG	Energy, LLC				
2)	Operator's W	ell Number:	Sarah E.	Adams No. 24	.9	3) Elevation	on 1176'
4)		(a) Oil X (b) If Gas:		Gas		ound Storage	
5)	Proposed Tar	rget Formation	n(s):	Fifth Sand			
6)	Proposed To	tal Depth:	3200' MD	ft.			50 12/2
7)	Approximate	e fresh water s	trata depths:		160' .		MA
8)	Approximate	e salt water de	pths:		1289'		
9)	Approximate	e coal seam de	pths:		575'		
10) 11)				o active mine		No	X d directionally N 41° E 440'
12)			CAS	SING AND TU	JBING PROGRA	<u>M</u>	
TYPI	Е	SPE	CIFICATION	NS	FOOTAGE I	NTERVALS	CEMENT
		Size	Grade	Weight Per Ft.	For Drilling	Left in Well	Fill-up (Cu. Ft.)
Cond	luctor						
Fresh	n Water	7"	LS	17#	660'	660'	Cement to surface
Coal							-
Inter	mediate						1
Prod	uction	4 1/2"	J-55	10.5#	3200'	3200'	150 Sacks
Tubi	ng						-
Line	rs		-		-		
Pack	ers: Kind Sizes Depths	set					
\equiv	Fee(s) Paid]ww-9	Well Work I	ice of Oil and Permit V-2B	The second secon	elamation Fund Confice	WPCP AND A 2144 AND A 2144

Page 1 of	4
Form WW2-A	
(10/10)	
	Copy

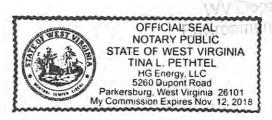
						3305808
1)	Date:	December 1	7, 2	2013		
2)	Operator's Well					
	Sarah E. Ad	lams No. 24	19			
3)	API Well No:	47	4	033		
10		State		County	Permit	

STATE OF WEST VIRGINIA - BUREAU OF ENVIRONMENT DIVISION OF ENVIRONMENTAL PROTECTION OFFICE OF OIL AND GAS

NOTICE AND APPLICATION FOR A WELL WORK PERMIT

CK24880

	ce Owner(s) to be served: MIRIAM	(5) No	nme NA		
(a) Na		V			
Addre	Clarksburg, WV 26301		- Idiress		
(b) Na		(b)) Coal Owner(s) with Decla	aration	
Addre		No	NIA		
		A J	Lilando		
(c) Na	ame				
Addre		Na Na	ime		
		A c	ddress		
V	ctor Sam Ward	(c)) Coal Lessee with Declara	tion /	
) Inspec			ame Wolf Run Minir	ıg V	
Addre	Buckhannon, WV 26201		ddress 2708 Cranberry		
Telen	shone (304) - 389-7583		Morgantown, W		
reiep		ED ADOVE E	COLUMN TO SERVICE AND A SERVIC		
	TO THE PERSON(S) NAM Included is the lease or leases or				
X	Included is the information requ				
	of West Virginia (see page 2) I certify that as required under Chapter	r 22 of the West V	/irginia Code I have served	copies	
	I certify that as required under Chapter of this notice and application, a location	r 22 of the West Von plat, and accom	/irginia Code I have served	copies 1 through4	
	I certify that as required under Chapter of this notice and application, a location the above-named parties, by:	on plat, and accom	/irginia Code I have served	copies 1 through4	
	I certify that as required under Chapter of this notice and application, a location the above-named parties, by: Personal Service (Affidavit attack)	on plat, and accom	Virginia Code I have served inpanying documents pages	copies I through4	
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U.S. Postal Service™ **CERTIFIED MAIL™ RECEIPT** 7573 (Domestic Mail Only; No Insurance Coverage Provided) For delivery information visit our website at www.usps.com 9059 Postage \$ \$3.10 11 0001 Certified Fee Postmark Return Receipt Fee (Endorsement Required) \$2,55 Here Restricted Delivery Fee (Endorsement Required) \$0.00 2630 12/26/2013 \$7.17 Total Postage & Fees \$ SEA 249 7013 Michael & Lori Nardella Sent To Street, Apt. No.; or PO Box No. 309 John Street City, State, ZIP+4 Clarksburg WV 26301 See Reverse for Instructions

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

Operator's Well No.	Sarah E.	Adams No	. 249
Obciators well 140.	Januar L.	1 Lumiis 110	

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
Sarah E. Adams	South Penn Oil Company	1/8	110/144

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 operations 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

The permit applicant for the proposed well work addressed in this application hereby ackowledges 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 US Fish and Wildlife Service County Floodplain Coordinator



Well Operator: HG Energy, LLC

By: Diane C. White Diane CUhite
Its: Accountant

FORM WW2-B1

Sarah E. Adams No. 249

West Virginia Division 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.

If no water well or spring is located within 1000 feet, the Chief may require the operator to sample and analyze water from a water well or spring within 2000 feet of the proposed well site.

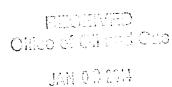
Be advised, you have the right to sample and analyze any water supply at your own expense.

The laboratory used by the operator to analyze the samples will be approved by the Chief. The operator named below has decided to use the following laboratory to analyze the water samples:

X Contractor Nam	e Sturm Environmental Services	
Well operator's	private laboratory	
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 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 indicates such.

No known Water Supply Sources are located within 2000' of proposed well but many water sources have been tested in conjunction with this Wolf Summit drilling program





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Rev.	1.0/1.0 -

		Page	3	of	3	
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Operator's Well No.	. 40	Sarah E:	Adams	No. 249	4571	,.

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

Watershed							OP Code	e 49449	1020
watershed	Ten Mile	Creek				Quadrang	le	Salem 7.5'	596
Elevation	1176'	County		Harrison	33	District	ct	Ten Mile	09
Description of	anticipated Pit Waste:	Fluids encountere	d in drilling s	shallow well.					
Do you anticipa	ate more than 5,000 bb	ls of water to comple	te the propos	ed well work?		Yes	No	X	C700
Will a syntheti	c liner be used in pit?	Y	es I	f so, what mil.?	2	0 Mil.		_	2012
Proposed Dispo	sal Method For Treate								" DC
_	X Land Appl		1.24						Joca
_		nd Injection (UIC Pe	rmit Number)
-		API Number	11777 6 6 11	11 00 0)
_		sposal (Supply Form	WW-9 for dis	posal location)					4
Deilling madin	Other in anticipated for this v	(Explain	w oil based a	la .	Ain T	Fresh Water	_)
	f oilbased, what type?				2111, 1	resu water			
Additives to be		Water, soap, KCl	ar aron	-					
	isposal method? Leave		oved offsite, e	tc.	Leav	e in Pit			
	f left in pit and plan to			all a second second second	1.000		Native s	oil, cement, li	me
	andfill or offsite name				0.0000000000000000000000000000000000000		-		
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Property Boundary	——————————————————————————————————————	Spring	○ →
Road			**
Existing Fence	xx	Wet Spot	
Planned Fence	//	Drain Pipe	
Stream	13/3/3	Waterway	
Open Ditch	>>	Cross Drain	7//////////////////////////////////////
Rock	2000 S	Filter Strip	XXXXXXXXX
		Pit: Cut Walls	Current :
North	N		Juliu .
Buildings		Pit: Compacted Fill Walls	
	(W)		
Water Wells	W	Area of Land Application	(12 1 2 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
Drill Site	\oplus	of Pit Waste	
A-7-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-		Area I	
Proposed Revegetation	Treatment: Acres Disturbed A	pprox. 1.0 Ac.	Prevegetation pH
2.0000000000000000000000000000000000000	-	Area II	
	A	pprox. 0.5 Ac.	
	Lime 2 Tons/Ac	ere or Correct to pH	6.5
	Fertilizer (10-20-20 or Equivalent)		ere (500 lbs. Minimum)
	Mulch Straw 2	Tons/Acre	
	SEI	ED MIXTURES	
	Area I (Location)		Area II (Road)
Seed Type	Lbs/Ac.	Seed T	4 40
Tall Fescue	40	Tall Fe	
Ladino Clover	5	Ladino	90 W/W
			Gas out
			JAN Orice of Oil and cess prote
Attach:			ce of Working
Drawing(s) of road, lo	cation, pit and proposed area for land ap	plication	ONOLEN
Photocopied section of	f involved 7.5' topographic sheet.		" Deb.
The state of the s			
71	5 0010 04		Michael D. Dall
Plan approved by	O W I C		Day 12 1-21-48
Title	Uil & Gas Inspector		Date: 12/23/2013
Field Reviewed	? Yes		No
Dag- Coo	duyon all disturbed	areas as so	son as reasonably possible per
. Fige see	ARI DICIA	I FI	S OC MANAGER CV
WU	DEP EXS Manual & 1	upgrade -4	- 45 Meessal7

