

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

February 04, 2014

WELL WORK PERMIT

Vertical Well

This permit, API Well Number: 47-3305807, 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: J.M. FULTZ NO. 248

Farm Name: MYER, EDGAR LEE JR.

API Well Number: 47-3305807

Permit Type: Vertical Well Date Issued: 02/04/2014

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 within 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.

Page	3	of	4
Page	3	OI	4

STATE OF WEST VIRGINIA

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

1)	Well Operate	or: HO	G Energy, LLC	2				
2)	Operator's W	Vell Number:	J. M. F	ultz No. 248		_ 3) Eleva	tion1281'	
4)	Well Type:	(a) Oil	X or	Gas				
		(b) If Gas:	Pro	duction	Underg	round Storage		
5)	Proposed Ta	rget Formati	on(s):	Fifth Sand				
6)	Proposed To	tal Depth:	3175' TMD	ft.				
7)	Approximate	e fresh water	strata depths:		200'			
8)	Approximate	salt water d	epths:	1	1380'			
9)	Approximate	coal seam d	epths:		620'			
10)	Does land co	ntain coal se	ams tributary	to active mine	? Yes	N	o X	
11)	Proposed We	ell Work:	Drill and	stimulate produ			led directionally S 34° 1	E 180'
								160
12)		1000			JBING PROGRA			5DW 12123/2
TYPE		SPI	ECIFICATION			NTERVALS	CEMENT	MAG
		Size	Grade	Weight Per Ft.	For Drilling	Left in Well	Fill-up (Cu. Ft.)	
Condu	ictor							
Fresh	Water	7"	LS	17#	700'	700'	Cement to surface	
Coal								
Interm	ediate							
Produc	etion	4 1/2"	J-55	10.5#	3175'	3175'	150 Sacks	
Tubing	g							
Liners								
Packer	s: Kind _ Sizes							
	Depths se	t						_
Fo	e(s) Paid		For Offic	e of Oil and G			Tice of Change	Gas
	e(s) Faid		wen work Pe	ermit	Recis	amation Fund	WPC	Р
Pla	at\	WW-9	WW	-2B	Bond	(Type)	Agen	
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						ETW	toume - in	No. of Persons and

Page I of	1) 2) 3)	Operator's Well Number J. M. Fultz No. 248	
DIVISION OF E	ENVIRONMENT ICE OF OIL AN		200
4) Surface Owner(s) to be served: (a) Name Mr. & Mrs. Edgar Lee Myer Address RR 4, Box 532 Salem, WV 26426	5) (a) Name Address	Coal Operator: NA	= 1
(b) Name Address	(b) Co Name Address	oal Owner(s) with Declaration NA ss	_
(c) Name Address	Name Address	es Estate de la constant de la const	
6) Inspector Sam Ward Address P.O. Box 2327 Buckhannon, WV 26201 Telephone (304) - 389-7583	(c) Co Name Address	boal Lessee with Declaration Wolf Run Mining 2708 Cranberry Square Morgantown, WV 26505	7
the right to extract oil and gas X Included is the information require of West Virginia (see page 2) I certify that as required under Chapter 22 of this notice and application, a location pon the above-named parties, by: Personal Service (Affidavit attached	2 of the West Virginolat, and accompany	inia Code I have served copies	
X Certified Mail (Postmarked postal republication (Notice of Publication at	eceipt attached)		
on this application form and all attachments, and the for obtaining the information, I believe that the information I am aware that there are significant penaline and imprisonment.	personally examine hat based on my ind formation is true, as lties for submitting	ed and am familiar with the information submitted equiry of those individuals immediately responsible occurate, and complete. If a false information, including the possibility of	
OFFICIAL SEAL NOTARY PUBLIC STATE OF WEST VIRGINIA	Well Operator By:	HG Energy, LLC Diane C White Diane C White	_
TINA L. PETHTEL HG Energy, LLC 5260 Dupont Road Parkersburg, West Virginia 26101 My Commission Expires Nov. 12, 2018	Its:Address	Accountant 5260 Dupont Road Parkersburg, WV 26101	_
	Telephone	(304) 420-1119	ż
Subscribed and sworn before me this 22 day of	Novem	Dec 2013 miranusale	m
Ina	190	Notary Public	
My commision expires Nov. 1	2.2018	02/07/2	014

0	117.11	NI.	1	
Operator's	well	NO.	J.	

J. M. Fultz No. 248

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
John M Fultz	South Penn Oil Company	1/8	92/47

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 I, 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	
Ву:	Diane C. White	Diane C Whit
Its:	Accountant	-

WW-2(B1)

FORM WW2-B1	J. M. Fultz No. 248
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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.

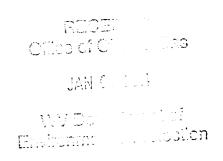
Be advised, you have the right to sample and analyze any water supply at your own expense.

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 Name	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.

There are no water wells or springs within 1000 feet of the proposed well site.



Form WW-9	1.0	5.41	 	 	4.5		4		020		9	Page	. 3	of	3
Rev. 10/10										APIN	umbe	r 47-	033		-
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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		LLC				OP Code_	49449	
Watershed	Ten Mile Cra				Quadrangle		em 7.5'	596
Elevation	1281'	County	Harr		District	Te	n Mile	09
	inticipated Pit Waste: F							
	te more than 5,000 bbls o liner be used in pit?	f water to complete the Yes			Yes	No_	X	SDU
	sal Method For Treated P	-	If so, what	тш.т	20 Mil.			12/2
	X Land Applicat							MD
	Underground !	Injection (UIC Permit	Number)
_	Reuse (at API)
_		sal (Supply Form WW-	9 for disposal loca	ntion)				
rilling madiun	Other (anticipated for this well	Explain	haned at-	A.5.	The 1. 187. 1.)
	foilbased, what type? Syr			- All	Fresh Water			
additives to be a		Inter, soap, KCI						
	sposal method? Leave in				we in Pit			
- If	left in pit and plan to sol	idify, what medium wi	Il be used? Ceme	nt, lime, sav	rdust	Native soil, c	ement, lin	ne
- J.,	andfill or offsite name/per	mit number?	4					
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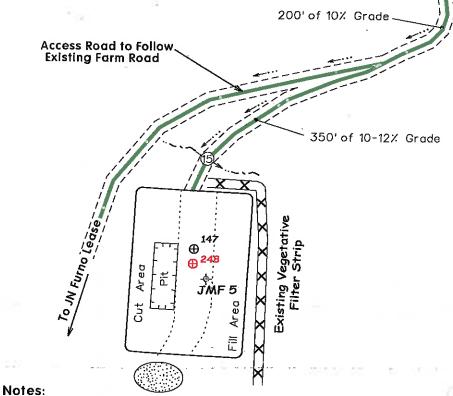
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Stream			Waterway	\longleftrightarrow \longleftrightarrow
Open Ditch		>	Cross Drain	777777777777777777777777777777777777777
Rock	20000		Filter Strip	XXXXXXXXX
KOOK	9,99,90		Pit: Cut Walls	- Cirilia
North	N			11111
	14		Pit: Compacted Fill Walls	\(\frac{1}{2}\)
Buildings Water Wells	(W)			777777
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Drill Site	\oplus		of Pit Waste	
			Area I	
ed Revegetation	Treatment: Acres Disturbe	d App		Prevegetation pH
	Lime Fertilizer (10-20-20 or Equ		500 Lbs./Ac	re (500 lbs. Minimum)
	Mulch Straw		ns/Acre MIXTURES	*
	Area I (Location)	SEED	MIXTURES	Area II (Road)
Seed Type	Area I (Location)	SEED		Area II (Road)Lbs/Ac
Seed Type Tall Fescue Ladino Clover	Area I (Location)	SEED	MIXTURES Seed T	ype Lbs/A
Tall Fescue	Area I (Location)	SEED os/Ac.	MIXTURES Seed T	ype Lbs/Accue Clover
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Tall Fescue Ladino Clover : :: :: ::::::::::::::::::::::::::::	Area I (Location)	os/Ac. 40 5	Seed Tall Fes	Area II (Road) Lbs/Add Clover Lbs/Add Office of Office
Tall Fescue Ladino Clover : :: :: ::::::::::::::::::::::::::::	Area I (Location) Literation, Literation, pit and proposed are finvolved 7.5' topographic states.	os/Ac. 40 5	Seed Tall Fes	ype Lbs/A
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Reclamation Plan For:

J.M. Fuliz No. 248

NOTE REFER TO THE WVDEP EROSION AND SEDIMENT CONTROL FIELD MANUAL VER. MAY 2012 FOR BMPs CONTROLLING EROSION AND SEDIMENT FROM SOIL-DISTURBING OPERATIONS.

MAG



Edgar Lee Myers Jr. - Surface Owner

J.M. Fuliz Lease

150' of 8% Grade Access Road to Follow_ Existing Farm Road 300' of 5% Grade

300' of 15% Grade

350' of 15-20% Grade

300' of 12% Grade

Edgar Lee Myers Jr. - Surface Owner

250' of New Road Construction

250' of 5-10% Grade

Earl & Belva Junkins - Surface Owner

W.B.Carpenter

Lease

250' of 10-15% Grade

Location for 2013 Wells No.245 & 246

250' of 10% Grade

Existing Highway Approach

02/07/2014

EXISTING LEASE OR

FARM ROADS TO BE UPGRADED. NEW ROADS TO BE

 MAINTAIN SEDIMENT BARRIERS AND DRAINAGE STRUCTURES. ALL ROAD GRADES <5% EXCEPT AS NOTED.</p>

© LOCATION OF DRILL PIT MAY BE CHANGED BASED ON AS-BUILT CONSIDERATIONS.

6 REQUESTED PERMIT IS FOR DRILLING OF NEW WELLS.

O ACCESS ROAD FROM CO. RD. 31/1 TO LOCATION IS EXISTING.

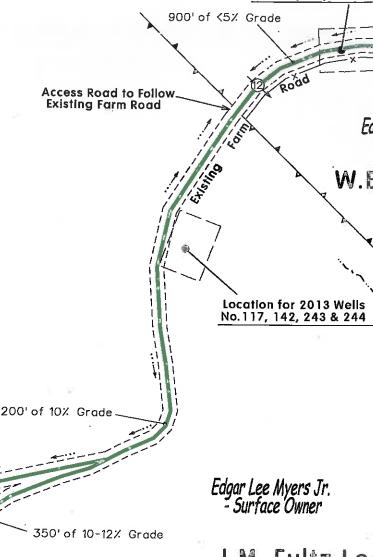
ALL DISTURBED AREAS WILL BE RE-VEGETATED AS OUTLINED.

ROAD WILL BE UPGRADED TO WYDEP STANDARDS AND STRUCTURES

DRAWING NOT TO SCALE.

INSTALLED AS SHOWN.

ON FORM WW-9.



Location for 2013 Wells No. 135, 141, 237 & 238

