

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 08, 2013

WELL WORK PERMIT

Vertical Well

This permit, API Well Number: 47-3305780, 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: W.B. CARPENTER NO. 237

Farm Name: JUNKINS, EARL & BELVA

API Well Number: 47-3305780

Permit Type: Vertical Well Date Issued: 08/08/2013

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 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.

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

1) Well Oper	ator: HO	Energy, LLC)			-10	
2) Operator's	Well Number:	W. B. C	Carpenter No. 2	237	_ 3) Elevation	n 1390'	
4) Well Type	: (a) Oil (b) If Gas:		Gasduction		ound Storage		
5) Proposed	Target Formation	on(s):	Fifth Sand				
6) Proposed	Total Depth:	3250' TVD 340	0' TMD ft.				
7) Approxima	ate fresh water	strata depths:		100'			_
8) Approxima	ate salt water de	epths:		1498'			_
9) Approxima	ate coal seam d	epths:		780'			
10) Does land	contain coal se	ams tributary	to active mine	? Yes	No	X	
11) Proposed V	Well Work:	Drill and	stimulate produ	ction well in Fifth S	and, well to be drilled	directionally N 20° E	400'
12) TYPE	SPI	<u>CAS</u> ECIFICATION		JBING PROGRA FOOTAGE I		CEMENT	
	Size	Grade	Weight Per Ft.	For Drilling	Left in Well	Fill-up (Cu. Ft.)	
Conductor							_50W
Fresh Water	7"	LS	17#	855'	855'	Cement to surface	6/27/20
Coal							_
Intermediate	1						
Production	4 1/2"	J-55	10.5#	3400'	3400'	150 Sacks, CTS	_
Tubing							
Liners							
Packers: Kind Sizes Depths	s set						
Fee(s) Paid		For Offic Well Work P	ce of Oil and C ermit	Recl	amation Fund	WPCI	2
Plat	WW-9	ww	7-2B	Bond Office o	(Type)	Agent	

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

1)	Date: Ju	ine 20, 20	13			
2)	Operator's Well	Number				
	W. B. Carpe	enter No.	237			
3)	API Well No:	47	P-	033	0.8	
		Ciata		D-mite.		Domile

rface Owner(s) to be served: Name Earl & Belva Junkins	5) (a) Name	Coal Operator: NA
dress RR 5, Box 1226	Address	
Salem, WV 26426	Z	
Name Edgar Lee Myers		al Owner(s) with Declaration
dress RR 4, Box 532	Name	NA
Salem, WV 26426	Address	
Name Brian Huffman V dress RR 4, Box 530	Name	-
Salem, WV 26426	- Address	OFF.
Satelli, WY 20120		-
pector Sam Ward	(c) Coa	al Lessee with Declaration
dress P. O. Box 2327	Name	Wolf Run Mining
Buckhannon, WV 26201	Address	
phone (304) - 389-7583	300	Morgantown, WV 26505
TO THE PERSON(S) NAMED	ABOVE TAKE N	NOTICE THAT:
the right to extract oil and gas O Included is the information required of West Virginia (see page 2) I certify that as required under Chapter 22 of this notice and application, a location plon the above-named parties, by: Personal Service (Affidavit attached) X Certified Mail (Postmarked postal re Publication (Notice of Publication att	by Chapter 22, Art of the West Virgin lat, and accompany ceipt attached)	ia Code I have served copies
Included is the information required of West Virginia (see page 2) I certify that as required under Chapter 22 of this notice and application, a location plon the above-named parties, by: Personal Service (Affidavit attached) X Certified Mail (Postmarked postal re Publication (Notice of Publication att I have read and understand Chapter 22-6 apermit issued under this application. I certify under penalty of law that I have papplication form and all attachments, and the aining the information, I believe that the information of the service of the servic	of the West Virgin lat, and accompany ceipt attached) ached) and 38 CSR 11-18, ersonally examined at based on my ingomation is true, accompany in the company in the compa	and I agree to the terms and conditions I and am familiar with the information submitted uiry of those individuals immediately responsible curate, and complete.
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TINA L. PETHTEL
HG Energy, LLC
5260 Dupont Road
Parkersburg, West Virginia 26101
Commission Expires Nov. 12, 2018

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

Operator's Well No. W	. B. C	Carpenter No.	237
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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
W. B. Carpenter, et ux	South Penn Oil Company	1/8	92/40

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:

Received Office of Oil & Gas

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 White
lts:	Accountant	

WW-2(B1)

FORM WW2-B1

W. B. Carpenter No. 237

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	Received Office of Oil & Gas
Address	5260 Dupont Road	Office of St.
	Parkersburg, WV 26101	?n!3
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 1000' of proposed well but many water sources have been tested in conjunction with this Wolf Summit drilling program

Earl & Belva Junkins RR 5, Box 1226 Salem, WV 26426	Brian Huffman RR 4, Box 530 Salem, WV 26426	Susan Junki RR 2, Box I Bristol, WV	19A	Gary Winter RR 2, Box 1 Bristol, WV		Claude & Jean Tetrick RR 2, Box 40 Bristol, WV 26426
John & Brenda Scotchie RR 2, Box 42 Salem, WV 26426	,	Drive	Dennis M RR 2, Bo Bristol, V	icAvey x 41	Mazza Donna Deverick RR 2, Box 80 Bristol, WV 26332	•

Additional testing authorized on 5/13/2013:

Oville Myers	Daniel Southern	Edgar Lee Myers	Edith Jean Myers
RR 4, Box 531	RR 4, Box 540	RR 4, Box 532	RR 4, Box 534
Salem, WV 26426	Salem, WV 26426	Salem, WV 26426	Salem, WV 26426

Form WW-9 Rev. 10/10

	Page	3	of	3	3
API	Number 47-	033			
Operator's Well No.	W. B. Ca	rpenter	No. 237		L.

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

		, LLC				Code 49449'	1940
Watershed	Branch of I	Lick Run		Quad	rangle	Salem 7.5'	596
Elevation	1390'	County	Harrison	33 I	istrict	Ten Mile	09
Do you anticipa Vill a synthetic	te more than 5,000 bbls c liner be used in pit? sal Method For Treated X Land Applica		proposed well work? If so, what mil.?	Yes20 Mil.	_	No X	
	Reuse (at AP Off Site Disp)
	foilbased, what type? S	ll? Air, fresh water, oil l ynthetic, petroleum, etc. Water, soap, KCl		Air, Fresh Wa	ter		
		n pit, landfill, removed o		Leave in Pit			
	left in pit and plan to so andfill or offsite name/p	olidify, what medium wi ermit number?	ll be used? Cement, lir	ne, sawdust	Nati	ve soil, cement, lin	ne
hat the provisio pplicable law I ce	ons of the permit are enfo or regulation can lead ertify under penalty of la	f Oil and Gas of the Wes orceable by law. Violatio d to enforcement action w that I have personally	st Virginia Department ns of any term or condi on. v examined and am fan	ition of the gener	al Protectio al permit a formation s	n. I understand nd/or other	eceived of Oil 8
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	•	Legend	_
Property Boundary	AAAA	Diversion	1111111111
Road		Spring	
Existing Fence	xx	Wet Spot	₩
Planned Fence	//_	Drain Pipe	——
Stream	7-7	Waterway	\Leftrightarrow \Leftrightarrow \Leftrightarrow
Open Ditch	>	Cross Drain	7//////////////////////////////////////
Rock	50 00 00 00 00 00 00 00 00 00 00 00 00 0	Filter Strip	XXXXXXXXX
		Pit: Cut Walls	
North	N	Dit: Composted	, milling
Buildings	· <u>Esta</u>	Pit: Compacted Fill Walls	
Water Wells	W	Area of Land	(T.
Drill Site	. ⊕	Application of Pit Waste	
	Lime 2 Tons/Acre Fertilizer (10-20-20 or Equivalent)	or Correct to pH 500 Lbs./Acre	6.5 e (500 lbs. Minimum)
	SEED	MIXTURES	
Seed Type Tall Fescue Ladino Clover	Area I (Location) Lbs/Ac. 40 5	Seed Tyj Tall Fesco Ladino Co	ue 40 A
			2000
	ation, pit and proposed area for land applic involved 7.5' topographic sheet.	ation	Office of Oil and Gas Prote Office of Oil and Gas Prote Office of Oil and Gas Prote
Plan approved by:	< p Out FIT		W Deprod

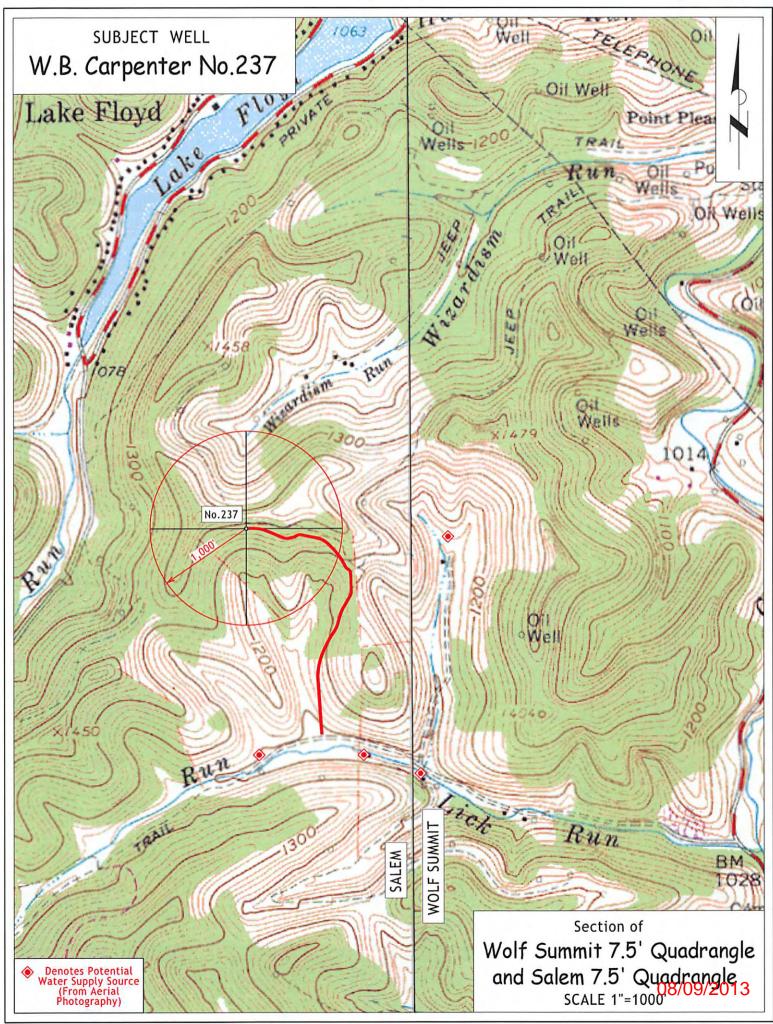
Plan approved by:

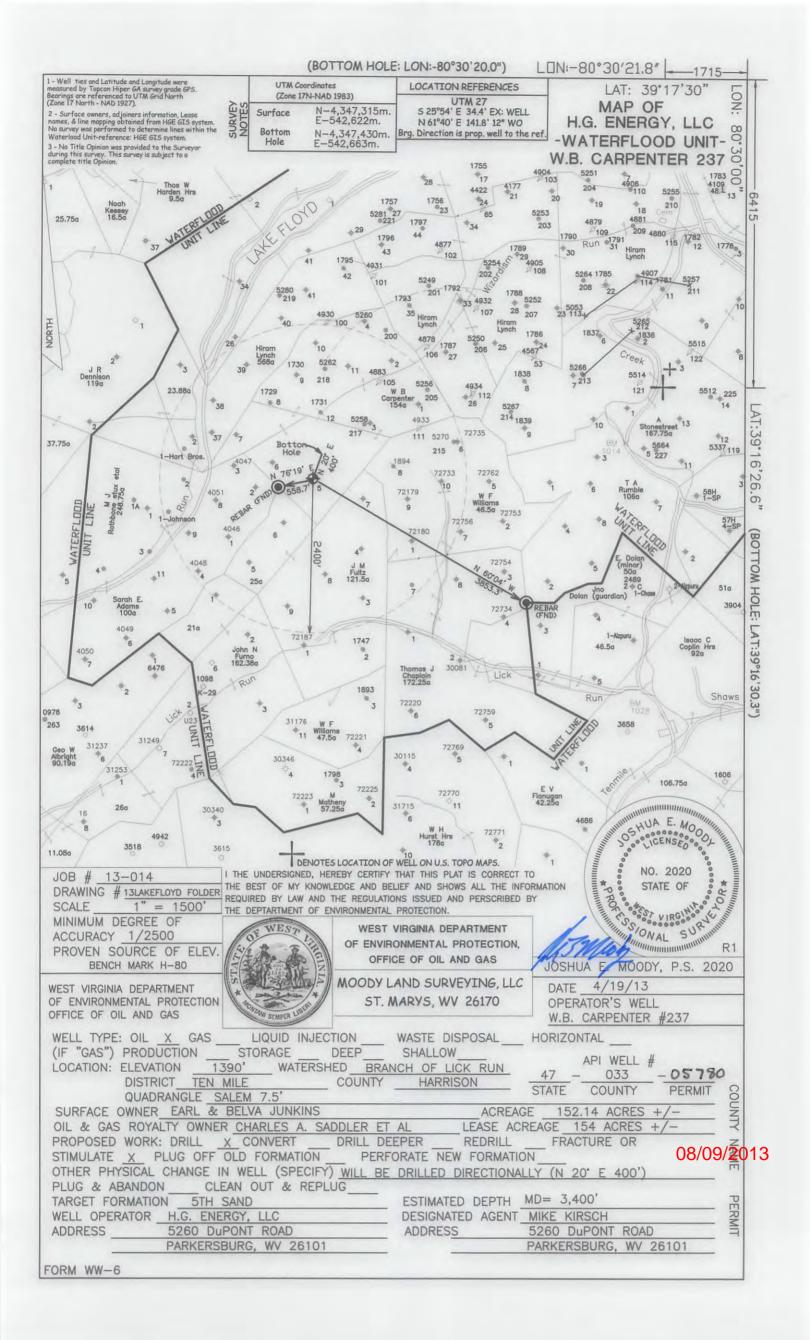
Field Reviewed?

No

W.B.Carpenter Earl & Belva Junkins - Surface Owner Reclamation Plan For: Lease 250' of New Road Construction 250' of 15% Grade Cut Area W.B. Carpenter No. 237 141 135 ⊕⊕⊕⊕ 237, 238 250' of 5/10% Grade 300' of 12% Grade .WBC 5 Access Road to Follow. Existing Farm Road 900' of <5% Grade Existing Vegetative Filter Strip NOTE REFER TO THE WVDEP **EROSION AND SEDIMENT CONTROL** FIELD MANUAL VER. MAY 2012 FOR Re-locate fence below location during drilling. BMPs CONTROLLING EROSION AND SEDIMENT FROM SOIL-DISTURBING OPERATIONS. Farmed by 150' of 18% Grade Edgar Myérs 250' of 12% Grade 300' of 15% Grade New Road Construction Brian V. Huffman - Surface Owner W.F.Williams Lease Edgar Lee Myers Jr. - Surface Owner 350' of 15-20% Grade Location for 2013 Wells To Additional Wells to be Drilled in 2013 No.117, 142, 243 & 244 J.M. Fultz Lease 150' of 8% Grade Access Road to Follow. Existing Farm Road 300' of 5% Grade `250' of 10% Grade Edgar Lee Myers Jr. - Surface Owner Notes: REQUESTED PERMIT IS FOR DRILLING OF NEW WELLS. ACCESS ROAD FROM CO, RD, 31/1 TO LOCATION IS EXISTING, ROAD WILL BE UPGRADED TO WVDEP STANDARDS AND STRUCTURES 250' of 10-15% Grade. INSTALLED AS SHOWN. Location for 2013 Wells No.245 & 246 © ALL DISTURBED AREAS WILL BE RE-VEGETATED AS OUTLINED ON FORM WW-9. **LEGEND Existing Highway Approach** MAINTAIN SEDIMENT BARRIERS AND DRAINAGE STRUCTURES. Existing Waterflood Roads **◎** ALL ROAD GRADES <5% EXCEPT AS NOTED. FARM ROADS TO BE UPGRADED. **◎ LOCATION OF DRILL PIT MAY BE CHANGED BASED ON** AS-BUILT CONSIDERATIONS. 08/09/2013 NEW ROADS TO BE

© DRAWING NOT TO SCALE.







HG Energy, LLC 5260 Dupont Road Parkersburg, WV 26101 (304) 420-1100 - Office (304) 863-3172 - Fax

June 20, 2013

Mr. Jeff McLaughlin WVDEP Division of Oil & Gas 601 57th Street Charleston, West Virginia 25304

RE: W. B. Carpenter No. 237

Ten Mile District, Harrison County

West Virginia

Dear Mr. McLaughlin:

Enclosed are the Forms WW-2A, WW-2A (1), WW-2B, WW-9, WW-2(B1), mylar of plat, reclamation plan, topo map and copy of the certified mailing receipt for a permit to drill the above-captioned shallow, producing well. Our check in the amount of \$650 is attached.

If you have any questions regarding this application, please call me at 304-420-1119.

Very truly yours,

Diane C. White

Received Office of Oil & Gas

Enclosures

cc: Edgar Lee Myers - Certified

Diane White

Brian V. Huffman - Certified Earl & Belva Junkins - Certified Wolf Run Mining Company - Certified

Sam Ward - Inspector