

### 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

July 26, 2013

### WELL WORK PLUGGING PERMIT

### Plugging

This permit, API Well Number: 47-3301731, 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.

Upon completion of the plugging well work, the above named operator will reclaim the site according to the provisions of WV Code 22-6-30. The above named operator will also file, as required in WV Code 22-6-23, an affidavit on form WR-38 by two experienced persons in the operator's employment and the Oil and Gas inspector that the work authorized under this permit was performed and a description given. Failure to abide by all statutory and regulatory provisions governing all duties and operations here under may result in suspensions or revocation of this permit and in addition may result in civil and/or criminal penalities being imposed upon the operator.

This permit will expire in two (2) years from date of issue. If there are any questions, please free to contact me at (304) 926-0499 ext. 1654.

James Martin

Chief

Operator's Well No: 12

Farm Name: JUNKINS, EARL & BELVA

API Well Number: 47-3301731

Permit Type: Plugging
Date Issued: 07/26/2013

Promoting a healthy environment.

WW-4B Rev. 2/01 1) Date: July 8, 2013
2) Operator's Well Number
W. B. Carpenter No. 12
3) API Well No: 47 = 033 = 1731
State County Permit

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

### APPLICATION FOR A PERMIT TO PLUG AND ABANDON

4) WI	ELL TYPE:		X Gas	Liquid Inje		Waste Disp			
	a.m.a			X Undergroun	7 1 12 7	) Deep	Shallow	X	
2) TO	CATION:	Elevation: District:	Tenmile p	Watershed: County:	Branch (	of Lick Run	uadrangle Sale	m 7.5' 596	2
6) WE	ELL OPERA	TOR: HG Ener				NATED AGENT	Michael G. Ki		
	Address	5260 Du	pont Road			Address	5260 Dupont	Road	
		Parkersb	urg, WV 26101		-d		Parkersburg, \	WV 26101	
8) OII Na		SPECTOR TO I	BE NOTIFIED			ING CONTRACT		0.000	
***************************************	dress	Sam Ward P.O. Box 232	7		- Name Address	Contract to	be bid to determi	ne Contractor	
		Buckhannon,	WV 26201						
10) W	ORK ORDER	R: The work or	der for the manner o	f plugging this v	vell is as follo	VS:			
-					ven is us rono				
-	10" CASI	NG 92'	TD - 3	2,851'	Coal - 5	26'-532'			
		120'	Pull 5	3/16" Casing					
		77'	Plug I		' - 2,700"				
	5 3/16" 1,9	980' (EST.)		No. 2 2,570 pull 6 5/8" casi	' - 2,400' ing @ 1,200'	(Est)			
				1/4" Casing fro	m 1,950' - 1,	850' & from 1,20	00' - 1,100'		
			Plug I Plug I		' - 1,850' ' - 1,100'				
				pull 8 1/4" casi		st)			
			Perfor	ate 10" casing	1 shot/20' fr	om 600' - 500' 8			
						every 20' from	300' - 200'		
			Plug I		- 200'				
			Rip &	pull 10" casing	@ 100' (est)				
			Plug N	lo. 8 200' -	Surface			g. 11	NIM
								/	OK
	onal Notes:								
	onument with	h API No. een all cemen	holuge						
			lar Neat Cement,	& expanding co	ement throug	h all coal seams			
Cemen	tops will be	e tagged.							
			as much casing & vious experience in		sible				
Casing	recovery is	based on pre-	nous experience ii	i tilis alea					
				OFFICE USE O	ONLY				
			1	PLUGGING PE	ERMIT				
Permit N	umber			-	-	Date		19	
This pern	nit covering th	e well operator ar	d the well location she	own below is evid	ence of permiss		n accordance with		
			the conditions contain		the reverse her	eof. Notification mu	st be given to the		
District C	oil and Gas Ins	pector 24 hours b	efore actual work has	commenced.					
			escribed in the Notice	and Application, j	plat, subject to a	ny modifications			
	and cond	itions on the reve	rse hereof.					Pa	00:
Permit ex	pires		un	less plugging is co	ommenced prior	to that date and pro	secuted with due di	iligence.	ceived
	- 125			1					100
Bond:	Agent:	Plat:	Casing:	WPCP	Other				1.8
	, igotat.		- www.b		551				Les Mills
					-	Chief	Office of Oil & C	ASV Dent - 1	of Oil and Gas
NOTE: K	eep one copy	of this permit pos	ted at the plugging loc	cation.		2.1121		cpt. 61 E	of Oil and Gas evironmental Protects

EM-3-22	darpa	inter.		WEL	L 18		ACRES	154			
WNSHIP OR TOTAL	1110	COUNT	y har	rision .	STATE		Year			E. 6.	
COMMENCED 00	et. 6,	19 🗓	O COMPL	ered Oct.	3.4 , ' 19	00.	CONTRACT	OR G.	H. hos	s.	0.
	ot. Eb,			ETED NOV.	19		CONTRACT		Lance	•	
D. COMMENCED	FOR	19 RMATION	Po.	1162-06				ASING RE	CORD		
KIND	TOP	воттом	SYREL LINE MEASUBERENT	REMARKS	SIZE	BOTTOM	CASING	POT IN WEI (TALLY MEA	L (TA	PULLED LLY MEAS.)	LEFT IN WHEN ABN'D,
Conductor		16			10"			198			
	526	532			650			1130			
Haxon Jand .	1787	1778									
Big Lime	1864	1948						PACKERS	5		
Big Injun	1948	1990				KIND		SIZE	DE	EPTH SET	DATE SET
Pifty Poot	2420	2446									
Gordon Sand	2579	2620					то	RPEDO RE	CORD		
Fifth Sand	2830	2836			DATE S			SIZE SHELL	TOP SHOT	воттом	RESULT
Potal Depth		2851			5/84. Otn 9-1	936	20	5-20	4830		
					8-11-		40	3-43"x6"	2830	2836	
							FROM	TO		PLUG	
					FILLED V	VIII	PROM		SIZE	KIND	DEPTH
		Rec	ceiv	ed							
			1 8 20	)13							
	,	Office AN Dept. of	e of Oil and Environmer	tal Protection				REMARK	:5		
TOTAL DEPTH											
	PRODUCT	ION RECO	RD								
24 HOURS BEFORE S	нот	ifth	SAND	55 BBLS.							
24 HOURS AFTER SH			SAND	BBLS.							
GAS TEST							85	Shi			
					APPROVE	D BY	W.C.	Din	co-		SUP

Permit

WW-4A Revised 6-07

1)	Date:	July 8, 20	13			
2)	Operator's We	ell Number				
		W. B. Carpe		No. 12		
3)	API Well No:	47	-	033	-	1731

County

State

# STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS NOTICE OF APPLICATION TO PLUG AND ABANDON A WELL

4)	Surface Own	ner(s) to be served:	1	5) (a) Coal Op	perator:
	(a) Name	Earl & Belva Junkins	V	Name	NA
	Address	RR 5, Box 1226		Address	
		Salem, WV 26426			
	(b) Name	NA		(b) Coal O	wner(s) with Declaration
	Address			Name	Wolf Run Mining Co.
				Address	2708 Cranberry Square
	(c) Name	NA			Morgantown, WV 26505
	Address			Name	5
	34 5,410,700			Address	
		***************************************		3,444,454	NA
5)	Inspector	Sam Ward		(c) Coal Le	essee with Declaration
,	Address	P.O. Box 2327		Name	
	radiess	Buckhannon, WV 26201		Address	
	Telephone	389-7583		7 tudi ess	NA
	rerephone	309-1303	-		1111
	Take not filed this of the O location Applicat	tructions on the reverse side. However, tice that under Chapter 22-6 of the s Notice and Application and accordice of Oil and Gas, West Virginia described on the attached Applica	ever, you are not West Virginia C mpanying docum a Department of I tion and depicted I by registered or	required to take any ode, the undersigned ents for a permit to Environmental Prot I on the attached For certified mail or de	ed well operator proposes to file or has be plug and abandon a well with the Chief tection, with respect to the well at the form WW-6. Copies of this Notice, the elivered by hand to the person(s) named
			Wel	I Operator	HG Energy, LLC
	WEST .	OFFICIAL SEAL	1		
	1 50 2	NOTARY PUBLIC STATE OF WEST VIRGINIA	By:		Diane CWhite Diane C. White
	""	TINA L. PETHTEL	Its:	_	Accountant
	A. M. 1160	HG Energy, LLC 5260 Dupont Road	Add	10222	5060 D D 1
	Sur			iress	5260 Dupont Road
	No.	Parkersburg, West Virginia 2610	1	iress	Parkersburg, WV 26101
	1181	Parkersburg, West Virginia 2610 My Commission Expires Nov. 12, 20	018 \$	ephone _	
S	ubscribed ar	Parkersburg, West Virginia 2610	018 \$	ephone _	Parkersburg, WV-26101 (304) 420-1119 1 1 1 8 2013
S	ubscribed ar	Parkersburg, West Virginia 2610 My Commission Expires Nov. 12, 20	Tele	ephone _	Parkersburg, WV-26101 (304) 420-1119

Form WW-9 Rev. 10/94

	Page	3	of	3
API I	Number 47-	033	40.5	1731
Operator's Well No.	W. B. Car	penter	No. 12	

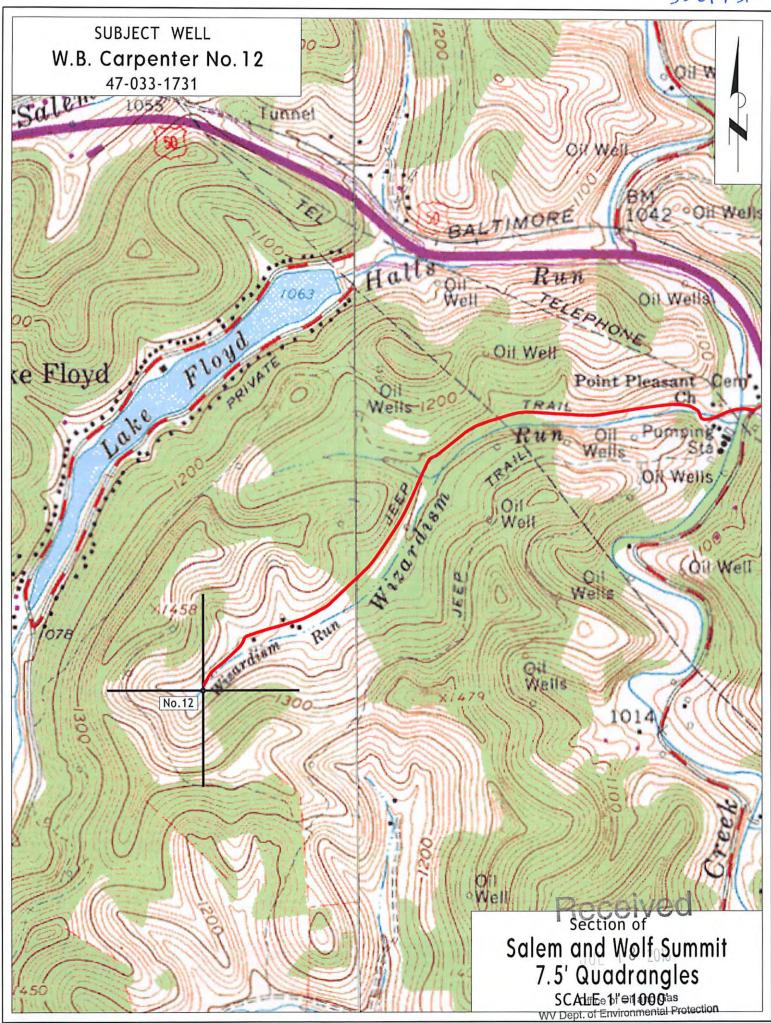
# STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION OFFICE OF OIL AND GAS

CONSTRUCTION AND RECLAMATION PLAN AND SITE REGISTRATION APPLICATION FORM GENERAL PERMIT FOR OIL AND GAS PIT WASTE DISCHARGE

Operator	HG Energ	rr: 1 D			AND AND ADDRESS OF THE PARTY OF	1.00	94497948
Watershed		Lick Run		-	Quadrangle	Salem 7	
Elevation	1162'	County	Harriso		District_	Tenmi	le
	nticipated Pit Waste:		intered in pluggir				
China Carlo	te more than 5,000 bbl	200			Yes	No X	-
The section of	liner be used in pit? sal Method For Treated	Yes	_ If so, what mil.	.? 10 r	mil		C
r roboseu Disbos	X Land Appli						5
-			C Permit Number				1
-	Reuse (at A						
-			orm WW-9 for dispo	osal location)			
	Other	(Explain					
	anticipated for this w			N	TA .		
Additives to be u	oilbased, what type? Sused? Water, so		eum, etc.				
Drill cuttings dis	sposal method? Leave		emoved offsite, etc.		NA		
Tf				_			
	left in pit and plan to s			Cement, li	me, sawdust		
- La I ce issued on August	andfill or offsite name/partify that I understand	permit number? I and agree to th of Oil and Gas o	NA e terms and conditi	ions of the GE	NERAL WATER	al Protection. I	understand
I ce issued on August that the provision applicable law or I ce this application for obtaining the penalties for subscending Offici	endfill or offsite name/grifiy that I understand to 1, 2005, by the Office are of the permit are enteregulation can lead to rifiy under penalty of lorm and all attachment information, I believe mitting false informatical Signature and (Typed Name)	l and agree to the of Oil and Gas of Gorceable by law enforcement aclaw that I have pats thereto and that the information of the conformation of t	e terms and conditi f the West Virginia . Violations of any ti tion. personally examined that, based on my intion is true, accura	ons of the GE: Department of term or condited and am family and am family of those the and completor imprisonme	NERAL WATED of Environments ion of the gener liar with the in individuals imposte. I am aware	al Protection. I al permit and/ formation subr mediately resp	I understand for other mitted on onsible
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### Legend

Property Boundary	A A A	Diversion	1//////////////////////////////////////
Road		Spring	<b>○&gt;</b>
Existing Fence	xx	Wet Spot	7
Planned Fence	-//-	Drain Pipe	12->
Stream		Waterway	$\leftarrow$
Open Ditch	>	Cross Drain	
Rock		Filter Strip	XXXXXXXXX
	- TP	Pit: Cut Walls	
North	N		
Buildings		Pit: Compacted Fill Walls	
Water Wells	W	Area of Land	
Drill Site	$\oplus$	Application of Pit Waste	
		]	
		Area I	
Proposed Revegetation	Treatment: Acres Disturbed App	orox. 0.5 Ac.	Prevegetation pH
•		Area II	
	Apr	prox. 0.2 Ac.	
	Lime 2 Tons/Acre	or Correct to pH	6.5
	Fertilizer (10-20-20 or Equivalent)		re (500 lbs. Minimum)
	· · · · · · · · · · · · · · · · · · ·	ons/Acre	
	SEEL	MIXTURES	
		7 ITALIA CARDO	
,	Area I (Location)	a: 1m	Area II (Road)
Seed Type	Lbs/Ac.	Seed Ty	/pe Lbs/Ac.
Tall Fescue	Lbs/Ac. 40	Tall Fes	/pe Lbs/Ac.
Seed Type Tall Fescue Ladino Clover	Lbs/Ac.	•	/pe Lbs/Ac.
Tall Fescue	Lbs/Ac. 40	Tall Fes	/pe Lbs/Ac.
Tall Fescue	Lbs/Ac. 40	Tall Fes	/pe Lbs/Ac.
Tall Fescue Ladino Clover	Lbs/Ac. 40	Tall Fes	/pe Lbs/Ac.
Tall Fescue Ladino Clover  Attach:	Lbs/Ac. 40	Tall Fes	Clover 5  Clover 5
Tall Fescue Ladino Clover  Attach: Drawing(s) of road, loc	Lbs/Ac. 40 5	Tall Fes	/pe Lbs/Ac.
Tall Fescue Ladino Clover  Attach: Drawing(s) of road, loc	Lbs/Ac. 40 5 cation, pit and proposed area for land appl	Tall Fes	Clover 5  PCCCIVCO  JUL 1 8 2013  Office of Oil and Gas
Tall Fescue Ladino Clover  Attach: Drawing(s) of road, loc	Lbs/Ac. 40 5  cation, pit and proposed area for land appl finvolved 7.5' topographic sheet.	Tall Fes	UL 18 2013
Attach: Drawing(s) of road, loc Photocopied section of	Lbs/Ac. 40 5  cation, pit and proposed area for land apple involved 7.5' topographic sheet.	Tall Fes	Clover 5  PCCCIVCO  JUL 1 8 2013  Office of Oil and Gas
Attach: Drawing(s) of road, loc Photocopied section of Plan Approved by:	Lbs/Ac. 40 5  cation, pit and proposed area for land appl finvolved 7.5' topographic sheet.	Tall Fes	Ul 1 8 2013  Office of Oil and Gas WV Dept. of Environmental Protection
Attach: Drawing(s) of road, loc Photocopied section of Plan Approved by:	Lbs/Ac. 40 5  cation, pit and proposed area for land apple involved 7.5' topographic sheet.	Tall Fes	Clover 5  PCCCIVCO  JUL 1 8 2013  Office of Oil and Gas



## West Virginia Department of Environmental Protection Office of Oil & Gas

## WELL LOCATION FORM: GPS

API: 47	- 033 - 1731	WELL NO:	No.12
FARM NAME:	W.B. Carpenter		
RESPONSIBLE PARTY	NAME: HG Energy, LLC		
COUNTY:	Harrison	DISTRICT:	Tenmile
QUADRANGLE:	Salem 7.5'		
SURFACE OWNER:	Earl & Belva Junkins		
ROYALTY OWNER:	HG Energy LLC et al.		
UTM GPS NORTHING:	4,347,632		
UTM GPS EASTING:	542,656	GPS ELEVATION:	354 m. 11621
height above 2. Accuracy to	AD 1983, Zone:17 North, Coordinative mean sea level (MSL) - meters.  To Datum - 3.05 meters ction Method:	e Units: meters, Altitude	n.
Survey Grade C			
Mapping Grade	e GPS X Post Processed Differential Real-Time Differential	X	
	certify this data is correct to the best of a formation required by law and the rest of Oil and Gas.  Timothy P. Roush		ırveyor " "
Signature		Title	Received
July Date	3, 2013		JUL 1 8 2013
			2010



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

CK# 2285

July 8, 2013

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

RE: W. B. Carpenter No. 12 (47-033-1731)

Tenmile District, Harrison County

West Virginia

Dear Mr. McLaughlin:

Attached are Forms WW-4(A), WW-4(B), WW-9, and WW-7, topo map, well record, copy of certified mailing receipt and a check in the amount of \$100.00 to cover the permit fee to plug and abandon the above-captioned well.

Very truly yours,

Diane CWhite

Diane C. White

Enclosures

cc:

Earl & Belva Junkins – Certified Wolf Run Mining Company - Certified Sam Ward - Inspector Received

18 2019

Office of Oil and Gas
WV Dept. of Environmental Protection