

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

September 28, 2015

WELL WORK PLUGGING PERMIT

Plugging

This permit, API Well Number: 47-9500548, 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

Operator's Well No: F. R. BALL 9

Farm Name: HAYES, RALPH & BETTY

API Well Number: 47-9500548

Permit Type: Plugging Date Issued: 09/28/2015

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. <u>Failure to adhere to the specified permit conditions may result in enforcement action.</u>

CONDITIONS

- 1. All pits must be lined with a minimum of 20 mil thickness synthetic liner.
- 2. 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.
- 3. Well work activities shall not constitute a hazard to the safety of persons.
- 4. This well is under a consent order and must be plugged under the terms of that agreement.

WW-4B Rev. 2/01

1)	Date	July:	20		,	2015	
		ator					
	Well	No.	FR Ball	9			
3)	API	Well	No.	47-005		- 00548	

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

	APPLICATION FOR A PERI	MIT TO PLUG AND ABANDON	
4)	Well Type: Oil X / Gas X / Liquid	d injection/ Waste disp	posal/
	(If "Gas, Production X or Und		
5)	Location: Elevation 1152'	Watershed Indian Creek	
57	District McElroy	County Tyler Quadrang	Le Centerpoint 7.5'
6)	Well Operator HG Energy, LLC	7) Designated Agent Diane Wi	nite
	Address 5260 Dupont Road	Address 5260 Dur	
	Parkersburg, WV 26101	Parkersb	urg, WV 26101
01	Oil and Gas Inspector to be notified	9) Plugging Contractor	
8)	Name Mike Goff	Name To Be Determined U	Jpon Approval of Permit
	Address PO Box 134	Address	
	Pullman, WV 26421		
	**See attached		RECEIVED fice of Oil and Gas
			ALIC 1 7 2015
			AUG 1 7 2015
			/V Department of ronmental Protection
	fication must be given to the district o	il and gas inspector 24 hour	rs before permitted
Work	order approved by inspector Michael	Date Date	7-30-15
		• • •	10/02/2015

WW-4B - Conti Rev. 2/01

July 20, 2015 1) Date: Operator's Well Number FR Ball 9 API Well No: 47 095 0548 Permit State County

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

APPLICATION FOR A PERMIT TO PLUG	AND ABANDON
4) WELL TYPE: Oil X Gas X Liquid Inject (If "Gas", Production Underground	
5) LOCATION: Elevation: 1152' Watershed: District: McElroy County:	Indian Creek Tyler Quadrangle Centerpoint 7.5'
6) WELL OPERATOR: HG Energy, LLC 4.94E+08	28. 1939 30 - CARCONORUS AND TRANSPORTE - AND PROPERTS - SHALE (AND AND AND AND AND AND AND AND AND AND
Address 5260 Dupont Road	Address 5260 Dupont Road
Parkersburg, WV 26101	Parkersburg, WV 26101
8) OIL & GAS INSPECTOR TO BE NOTIFIED	9) PLUGGING CONTRACTOR
Name Mike Goff Address PO Box 134	Name To Be Determined Upon Approval of Permit Address
Pullman, WV 26421	Tital 653
10) WORK ORDER: The work order for the manner of plugging this w	
TD- 3,065'	FORE SETTING PLUG #1. gra
Manners of plugging;	
Plug #1 3010' - 2910'	
Located at 3 1/2" casing shoe	
Free Point, cut and pull 3 1/2" casing approx. 2300'	
Plug #2 - approx. 2500' - 2250' Located at 3 1/2" casing stub and 5 3/16" shoe	
Free Point, cut and pull 5 3/16" casing approx. 2000'	7/
Plug #3 - approx 2050' - 1950'	
Located at 5 3/16" casing stub and 6 5/8" shoe	
Free point, cut and pull 6 5/8", approx 1520' Plug #4 -approx 1570' - 1470'	RECEIVED
Located at 6 5/8" casing stub	
Plug #5 - 1200' - 1100'	Office of Oil and Gas
Located at Elevation	AUG 1 7 2015
Plug #6 - 1020' - 920'	A00 17 2013
Located through coal Plug #7 - 430' - 330'	WV Department of
Freshwater	Environmental Protection
Plug #8 - 100' - 0'	Environmental Protection
Surface	
Recover all possible casing. If casing can not be recovered, perfo	rate for plug placement.
Monument:	
6" minimum diameter metal pipe	MAG 7-30-15
30" above surface	

6% Gel between all plugs

API identification (1/2") height numbering

Sealed with cement

10/02/2015

F.R. Ball #9 Well: Elevation 1152' Casing Information Weight Size Depth 6 5/8" 2000' #/ft. #/ft. 5 3/16" 2418' #/ft. 3 1/2" 2959' cubic ft. per vertical ft. depth 0.119991257 Sacks per vertical ft. depth

Monument min. 6" dia.metal pipe, 30" above surface, 10' in well below surface, sealed with cement, API id.

Freepoint Cut and Pull Casing			
Size	Approx. Depth		
3 1/2"	2300'		
5 3/16"	2000'		
6 5/8"	1520'		

	Cement Plu	igs
NO.	Bottom	Тор
1	3010	2910
2	2500	2250
3	2050	1950
4	1570	1470
5	1200	1100
6	1020	920
7	430	330
8	100	0

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Office of Oil and Gas

AUG 1 7 2015

WV Department of Environmental Protection

3 1/2" casing cemented back to 5 3/16"

3

2

TD 3065 '

Note: 6% gel between all plugs

MBG 7-30-15

RECEIVED Office of Oil and Gas

AUG 1 7 2015

WV Department of Environmental Protection

wr-35		.==)-Jul-90
State of We DEPARTMENT Division of	OF ENERGY	la C	# 47- 95-	
Well Operator's R	eport of W	vell work	1AY 2 7 2053	
Farm name: HAYES, RALPH & BETTY	Operator	Well No	MORENTE Protect	ion!
LOCATION: Elevation: 1152.00 Quad	rangle: C	ENTER POINT	SAN THE SAN TH	and of
District: MCELROY Latitude: 350 Feet Sou Longitude 4800 Feet Wes	th of 39	Deg. 27Min Deg. 40 Min	, 30 Sec.	•
Company: PENNZOIL PRODUCTS COMPANY P. O. BOX 5519 VIENNA, WV 26105-5519	Casing	Used in	Left	Cement Fill Up
Agent: JAMES A. CREWS	Tubing	Drilling	in Melt	Cu. Ft.
Inspector: GLEN P. ROBINSON	Size			Old Well
Permit Issued: 07/30/90	10	380	j :	Record
Well work Commenced: 11-8-90 Well work Completed: 12-6-90 Verbal Plugging	8-1/4	1520		,
Permission granted on: Rotary Cable X Rig Total Depth (feet) 3065	6-5/8	2000	2000	11
Fresh water depths (ft)	5-3/16	2418	2418	. 11
Is coal being mined in area (Y/N)? N Coal Depths (ft): 970 (old record)	3-1/2	2959.30	2959.30	50 Sks.
OPEN FLOW DATA	•			
Producing formation Gordon Gas: Initial open flow * MCE Final open flow MCE Time of open flow between i Static rock Pressurepsi	/d F .nitial an	Pay zone nitial open inal open f d final tes e pressure)	flow low ts	3015-3050 Bbl/c Bbl/d Hours Hours
Second producing formation Gas: Initial open flow Final open flow Time of open flow between i Static rock Pressure * Converted to WIW, old well workover	<pre>/d Oil: I //d F initial an ig (surface)</pre>	d final tes	flow low ts	Bbl/c Bbl/c Hours
NOTE: ON BACK OF THIS FORM PUT THE INTERVALS, FRACTURING OR STIMULATING LOG WHICH IS A SYSTEMATIC DETAILED INCLUDING COAL ENCOUNTERED BY THE WEI	FHYSIC GEOLOGIC	AL CHANGE,	ETC. 2)	. THE WEL:
For: PENNZOI By: State: A	L/PRODUCT	S COMPANY	Timot	ny P. Roush
Date: 1		££		10/02/2015

No stimulation.

Old Well Record

Pgh Coal	970
Big Injun	2285-2450
1st Pay	2380
Stray	3015-3033
Gordon	3036-3050
T.D.	3065

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Office of Oil and Gas

AUG 1 7 2015

WV Department of Environmental Protection

47-095-0540

Eh. 25	20		er it weeks blu	elegi		H.	No.1961
LEASE NO.	743	ACRE	S 114 FARM	NAME J. F. A.	Rawicins	WEL	L NO. 12
N. 6 S. Civil District	E. E llewo	W. 13	Rig Completed		Date P	osed From K.C. Ourchased 3-1-	
County	Tyler		Dr'g Commence		Sold T		
State	·Va-		Dr'g Completed	9-10-98	Date S		
GAS Rights Owned	By		Dr'g Contractor	A.T. McDonnell &	Co. Date /	Abandoned	1
		NOITAN		1	Contract Contract	NG RECORD	5.40 H
Kind	Tap	Bottom	Steel Line Tests	Size Botte	ors Casing Put	in Well Pulled By Mean. Tally Mess.	Cemented
9				10" 81" 61" 5-7/8" 2"Tbg.		105 105 920 920 1575 153 1670	Date Size Csg. Top " Bot "
011	1650	1357		*			
Gas	1650 1637			•		-	
Gua	ונטב			Base	PACKEN	RS AND SHOES	
				Disc Wall Pk	cr. 5] ">	Size Depth Sep di-7/8" 1966	Date Set 9-17-06
,							
				***************************************	TORPE	EDO RECORD	
				Date	No. Qu. Size	Shell, Top Shot Bo	etom Results
Total Depth		1680		9-13-98 11 -10- 98	8		559 561
*	A.C.Y.			7-9-00	30	, 1 1150	
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- A.					******		
* *						ING DEEPER	
				Commenced	Completed	Original Dep	Contractor
					ABANDO	NMENT RECORD	
				Filled With	From .	To Size	PLUG Kand Depth
1	1-			~			
Innial Prod. m.	Sand *	At Completion	# 10 Days After #				
rep.	ener			-			
Gii ito				APPROVED			
						g g =	Supt.
* Oal in Harrels * Gas us M. Co. Fr.	_	-	_		TESTS, REPOR	TTS AND REMARKS ON I	REVERSE STOR

10/02/2015 CAPR 23 2015

WELT NO. PINT GROVE DISTRICT D. street or Two. 主法 County State C.--4 HMED Pittszurgh Coal C. s.pleted **God Rock Cave** Contractor Cow Run (Fires) Purchased From Der Hun (Second) Date Patchased Ball Sand (Vapor) Gala Connected Salt Back (Mildle) AUG 2 125 Sale To tell films (Lines) GE MINES Mages CIEL Date Sald Date Plugged 1980 tion of an barbeile CASING, AND TUBING Sue Left in Well Pulks 13 in. Casing Wair Barie South Sand 10 In. Casing 8 . in. Castra 61, m. Casing Fifty Fact Said 4 . In. Casing To rig Fact Band • bil on. Carring Circles Spay 4!, In. Casing In. Tubing In. Tubing EHOOTING . Date Sand 71.3195 -695 نتحذ Circle -0540 PACKER Initial Oil Freduction 6 ca 2 11: et at Ozen Fisw

WW-4A Revised 6-07

1) Date:	July 20, 2015	
	's Well Number	
FR Ball 9		

3) API Well No.: 47 -

00548 095

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

	ner(s) to be served:	100
(a) Name	Gordon Swartz	Name NA
Address	10240 Indian Creek Road	Address
	Jacksonburg, WV 26377	
(b) Name		(b) Coal Owner(s) with Declaration
Address		Name NA
		Address
(c) Name		Name
Address		Address
Address		
Inspector	Mike Goff	(c) Coal Lessee with Declaration
Address	P. O. Box 134	Name NA
Address	Pullman, WV 26421	Address
Telephone	304-549-9823	- Tittle Coo
reichnone	004 040 0020	-
(2) The The reason However,	its and the plugging work order plat (surveyor's map) showing to a you received these documents is the you are not required to take any action at that works Chapter 22.6 of the World Chapter 22.6 of t	; and he well location on Form WW-6. at you have rights regarding the application which are summarized in the instructions on the reverses side at all. St Virginia Code, the undersigned well operator proposes to file or has filed this Notice and Application an
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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 needed to comply with statutory or 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 pour personal information. information, please contact DEP's Chief Privacy Officer at depprivacyoffier@wv.gov.

WW-9 Rev. 5/08

Page	of	
API Number 47 - 095	 00548	
Operator's Well No. FR Ball 9		

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

CONSTRUCTION	ENERAL PERMIT FOR OIL AND GAS PIT	WASTE DISCHARGE	
		OP Code 494497948	
Operator Name_HG Energ			
Watershed Indian Creek		Centerpoint 7.5"	
Elevation 1152'	County Tyler	District_McElroy	
Description of anticipated Pit W	Fluids encountered while	plugging subject well	
Will a synthetic liner be used in	the pit? Yes lived with	minimum of 20mil line	MSC 7-30
Unde Reuse Off S	Treated Pit Wastes: Application rground Injection (UIC Permit Number e (at API Number ite Dispposal (Supply form WW-9 for disposer (Explain	sal location)	
Proposed Work For Which Pit V Drill Worl Othe	Will Be Used: Swa ing Y kover Plug r (Explain	abbing gging	
on August 1, 2005, by the Office provisions of the permit are error law or regulation can lead to error I certify under penalta application form and all attactions.	chments thereto and that, based on my incomplete that the information is true, accurate information, including the possibility of fine of the Diane White	and am familiar with the information of those individuals immede, and complete. I am aware or imprisonment. Office of WV Department of the condition of the co	and/or other applicab ation submitted on the diately responsible f
Subscribed and sworn before	me this 20th day of July	_{, 20} 15	
Subscribed and sworn before	Dessite Sulous 4.4. 3016	Public NO STATE O S JIA	FFICIAL SEAL DTARY PUBLIC OF WEST VIRGINIA ANNE DULANEY SC Dupont Road To West Virginia 26101

Operator's Well No. FR Ball 9

		LEGEND			
Property Boundary	and the same of th	Diversion Levelle 121	11.111111111111111111111111111111111111		
Rond = = = = =		Spring O			
Existing Fence — X —		Wet Spot			
Planned Fence / _	_//_	Drain Pipe with size in inches			
Stream		Waterway C+ C+ C+ C+			
Open Ditch		Cross Drain 77711	11111111111		
Rock ESSES	Vento-	Artificial Filter Strip XXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX		
North N		Pit: cut walls	· WHILL		
Buildings		Pit: compacted fill walls	Francis		
Water wells		Area for Land Application of	Pit Waste		
Drill site		6			
	nent: Agras Disturbed 0.6 a	Cres Programation	nH		
Proposed Revegetation Treatm	nent. Acres Disturbed		рН		
Lime3	Tons/acre or to correct to pl	Н			
Fertilizer (10-20-20	500	os/acre (500 lbs minimum)			
	2	300 (Quinter 100 € Quinter 100) = 100 (Quinter 10			
Mulch_Straw	Tons	/acre	*		
	Se	ed Mixtures			
Are	ea I		Area II		
Seed Type	lbs/acre	Seed Type	lbs/acre		
Tall Fescue	40	Tall Fescue	40		
Ladino Clover	5	Ladino Clover	5		
			RECEIVED		
F			Office of Oil and Gas		
Attach:			2000 - 100 -		
Drawing(s) of road, location,	pit and proposed area for land a	pplication.	AUG 17 2015		
Photocopied section of involve	ved 7.5' topographic sheet.		WV Department of		
A		E	nvironmental Protection		
M .	1 4 1				
Plan Approved by: 1 14c	had Daff				
Comments: Preseed	d 4 Mulch an	y disturbed o	reas,		
Title: Bil 4 Coas	5 Inspector	Date: 7-30=	15		
) Yes (. / No			
Field Reviewed?) Yes ()110	10/02/2015		



West Virginia Department of Environmental Protection Office of Oil & Gas

WELL LOCATION FORM: GPS

API:	47- 095 -	- 0548	<u></u>	WELL NO:	9
FARM NAME:	F.R. B	all			
RESPONSIBLE PARTY	NAME:	H.G. En	ergy, LLC		. <u></u>
COUNTY:	Tyler			DISTRICT:	McElroy
QUADRANGLE:		Centerpoint 7.5'			
SURFACE OWNER:		Gordon Swartz			
ROYALTY OWNER:		American Energy P	artners et al.		
UTM GPS NORTHING:		4,367,608	(NAD 83)		
UTM GPS EASTING:		527,217	(NAD 83) GI	PS ELEVATION:	353 m.
height ab 2. Accurac	eation plat ot GPS coo NAD 1983 pove mean	for a plugging permit ordinates that do not not not not not not not not not no	on the above we neet the following ordinate Units:	ell. The Office of ng requirements:	RECEIVED
Survey Grade	GPS _	Post Processed Diff		0	Office of Oil and Gas
Mapping Gra	de GPS	X Post Processed Differer	ferential	<u>x</u> 	AUG 1 7 2015 NV Department of
I the undersigned, hereb belief and shows all the prescribed by the Office	informatio	on required by law and	•	owieage and	ironmental Protection
Diane White	ا_ د	Diane C. White		Designated Age	ent
Signature			Ti	itle	
May 27, 201	5		_		
Date					