

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 03, 2015

WELL WORK PLUGGING PERMIT

Plugging

This permit, API Well Number: 47-10301631, 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.

Operator's Well No: G. V. REILLY L-19

Farm Name: WV PUBLIC LANDS

API Well Number: 47-10301631

Permit Type: Plugging
Date Issued: 08/03/2015

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. Failure to adhere to the specified permit conditions may result in enforcement action.

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	, 20
2) Operator's Well No. GV Reilly	/ L-19
3) API Well No.	47-103 -1631

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

	OFFICE OF C	OIL AND GAS
	APPLICATION FOR A PERM	IT TO PLUG AND ABANDON
4) Well T	V	injection/ Waste disposal/ erground storage) Deep/ Shallow X
5) Locati	on: Elevation 1242' District Green	Watershed Piney Fork County Wetzel Quadrangle Centerpoint 7.5'
6) Well O	HG Energy, LLC 5260 Dupont Road Parkersburg, WV 26101	7) Designated Agent Diane White Address 5260 Dupont Road Parkersburg, WV 26101
Nan	nd Gas Inspector to be notified ne Derek Haught dress P. O. Box 85 Smithville, WV 26178	9) Plugging Contractor Name To Be Determined Upon Approval of Permit Address
10) Work (Order: The work order for the man	ner of plugging this well is as follows:
		Peceived Office of Oil & Gas JUL 13 2015
Notificat work can	ion must be given to the district commence.	oil and gas inspector 24 hours before permitted
Work orde	er approved by inspector	Date <u>7-6-15</u>
		08/07/2015

WW-4B Rev. 2/01

1)	Date: Ju	ne 25, 20	15				
2)	Operator's Well Number						
	GV	Reilly L-	19				
3)	API Well No:	47	- 1	03	-	1631	
٦)	111 7 7 6 11 11 11	State	C	ounty	_	Permit	

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

	APPLICATI	ON FOR A PERM	IT TO PLUG A	ND ABANDO	N			
4) WELL TYPE:	Oil ·	X Gas	Liquid Injec	tion	_Waste Di	-		
.,		, Production	Undergroun	d Storage	_) Deep	Sha	allow	<u>x</u>
5) LOCATION:	Elevation:	1242'	Watershed:	Piney Fork		0 1	Centerp	oin! 7.5'
,	District:	Green	County: _	Wetzel		Quadrangle		OHR 7.5
6) WELL OPERA	TOR: HG Ener	rgy, LLC	4.94E+08	7) DESIGNATI		Diane V	Vhite upont Roa	
Address	5260 Du	pont Road			Address		burg, WV	
		ourg, WV 26101			CONTRA			
8) OIL & GAS IN				 PLUGGING Name 	CONTRAC To Be De	termined Upon	Approval	of Permit
Name	Derek Haugh	t		Address	TOBOBO	Cititinea Open		
Address	PO Box 85 Smithville, W	VV 26178						
								
10) WORK ORDER	R: The work of	rder for the manner o	of plugging this v	well is as follows:				
TD- 3,268'								
Manners of pluggi	no.							
Plug #1 3100' - 30	00'							
Free point, part an	nd pull 4 1/2" (casing, approx 200	0'					
Plug #2 - 2050' - 19	950'							
Located at 4 1/2" (Plug #3 - 1300' - 1	casing stub							
Located at elevation					n			
Plug #4 -1100' - 10					12m4 7-6-			
Located through F		1			1)-6-	15		
Plug #5 - 450' -350)' 	h Water			·			
Located at 8 5/8" sh Plug #6 - 100' - 0'	ioe, below fres	n water						
riug #0 - 100 - 0								
Recover all possible c	asing. If casing o	can not be recovered, p	erforate for plug p	lacement.				
Monument:								
6" minimum diameter 30" above surface	metat bibe							
10' in well below surf	ace							
Sealed with cement						HHCE	llaes e	
API identification ((1/2") height nu	ımbering			O	ffice of C	M	
6% Gel between all p	luos					-0411	계 & Ge	38
0% Oct between an b	1000					JUL 13	2015	

08/07/2015

Monument to extend 30" above surface. 10' G.V. Reilly L-19 Well: into well. 6" min metal pipe, sealed with cement. API i.D. Elevation: 1242' cement to surface 4 Casing Information Weight Size Depth Freepoint Cut and Pull Casing 400' 20#/ft. 8 5/8" Approx. Depth Size 4 1/2" 3190 10.5#/ft. 2000' 41/2 5 Cement Plugs Top Bottom NO. 3000 3100 1 1950 2050 2 1200 3 1300 1000 1100 4 Pittsburgh Coal 1056' 4 350 5 450 0 100 6 77/8" Hole Size 4 3 **Bottom Hole Cement Level Calculations** Cement Depth # Sacks Used 2153.017 300 Depth **Casing Size** Hole Size 2 4.5 3190 77/8 300 Sks Cement T.O.C. 2153' 4 bbls / ft. diameter delta Conv. Factor 1029.4 0.040573 41.765625 cubic ft. per vertical ft. depth 0.227795902 Sacks per vertical ft. depth 0.289300796 Highest Perforation 313; **Yield options** JUL 1 3 2015 50/50 posmix 6% gel = 1.64 Neat w/ salt flakes = 1.19 50/50 w/ 2% gel = 1.27 TD 3268'

WR-35

25-May-94 API # 47-103-01631 S

State of West Virginia Division of Environmental Protection Section of Oil and Gas

	Wel	.1 Operator's Re	port of W	ell Work			
Farm name:	WVA. PUBLIC	LANDS	Operator 1	Well No.: G	.V.REILLY	L-19	
LOCATION:	Elevation:	1,025.00 Quadr					
·· .	District: Latitude: Longitude	GREEN 3750 Feet Sout 2700 Feet West	L -E 20	unty: WETZE Deg. 30Min. Deg. 40 Min	Sec.	,	
D .	NZOIL PRODU O. BOX 5519 NNA, WV 26	CTS COMPANY -		Used in Drilling		12111 001	
-	ES A. CREWS RANDAL MICK		Size 8-5/8	400	•	To surface 50 sks.	
Well work (ommenced: ompleted:	09/13/94 09/23/94					
Rotary Total Depth Fresh water	Cable n (feet) r depths (ft			 3190 	l 3190 	300 sks.	
Salt water	depths (ft)	N/A .		<u> </u>	i 	<u> </u>	
Is coal be Coal Depth	ing mined ins (ft):	n area (Y/N)? <u>N</u> N/A		 	 	. 	
Produ Gas: Stati	cing format Initial oper Final open Time of ope c rock Pres	* Water Inj ion <u>Gordon</u> n flow * MCI flow * MCI n flow between : sureps	/d Oil: I /d F initial an ig (surfac	Pay zone nitial open inal open f d final tes e pressure)			
Secon Gas: Stati	nd producing Initial ope Final open Time of ope ic rock Pres	formation n flow MC flow MC n flow between sure ps S FORM PUT THE OR STIMULATIN EMATIC DETAILED	F/d Oil: I F/d F initial ar ig (surfac	Pay zone initial oper inal open in final test in final tes	depth (find flow	Bbl/d Bbl/d Hours COlveburs	[
NOTE: ON I INTERVALS LOG WHICH INCLUDING	BACK OF THI , FRACTURING IS A SYST COAL ENCOUN	S FORM PUT THE ; OR STIMULATIN PEMATIC DETAILED STERED BY THE WE	FOLLOWING, PHYSIC GEOLOGIC LLBORE.	NG: 1). DE CAL CHANGE, CAL RECORD	TAILS OF ETCUE) OF ALL F	PERFORATE PERFORATE ORMATECNS	jas ,

For: PENNZOLY PROPUCTS COMPANY

By: #

TREATMENT

Perforated with 12 holes 3133'-3139'. Treated with 300 gallons 15% HCL acid, 442 barrels gelled water and 18,500# 20/40 sand.

WELL LOG

• .	
Sand & Shale	0'-1560'
Sand	1560'-1628'
Shale	1628'-1658'
Sand & Shale	1658'-2050'
Sand	2050'-2088'
Shale	2088'-2350'
Big Injun	2350'-2524'
Shale	2524'-3107'
Stray	3107'-3116'
Gordon	3116'-3140'
T.D.	3268¹

Received Office of Oil & Gas JUL 1 3 2015 WW-4A Revised 6-07

1) Date:	June 25, 2015	
2) Operate	or's Well Number	
GV Reilly L-19		

3) API Well No.: 47 -

103 - 1631

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

	A STATE OF THE STA	a) Coal Operate	
(a) Name	WV DNR	Name	NA .
Address	Capital Complex, B3, Room 643	Address	
	Charleston, WV 25305		A TOTAL OF THE PARTY OF THE PAR
(b) Name			wner(s) with Declaration
Address		Name	NA
		Address	
(c) Name		Name	NA
Address		Address	
Inchastan	Derek Haught	- (a) Coal L	essee with Declaration
Inspector	P. O. Box 85	Name	NA
Address		_ Name Address	100
m-11	Smithville, WV 26178	Address	
Telephone	304-549-9823	-	Received
		the same of the same	that he which are automorphisd in the instructions on the reverses side
Take notic accompany Protection, the Applic	you are not required to take any action at all. e that under Chapter 22-6 of the West Virginia Cody ying documents for a permit to plug and abandon a v with respect to the well at the location described or	e, the undersigned we well with the Chief of the attached Applica or certified mail or o	ell operator proposes to file or has filed this Notice and Application and the Office of Oil and Gas, West Virginia Department of Environmentation and depicted on the attached Form WW-6. Copies of this Notice
Take notice accompany Protection, the Applic	you are not required to take any action at all. e that under Chapter 22-6 of the West Virginia Code ying documents for a permit to plug and abandon a v , with respect to the well at the location described or ation, and the plat have been mailed by registered cumstances) on or before the day of mailing or delive	e, the undersigned we well with the Chief of a the attached Applica or certified mail or certified mail or certified mail or cery to the Chief.	ell operator proposes to file or has filed this Notice and Application and the Office of Oil and Gas, West Virginia Department of Environmentation and depicted on the attached Form WW-6. Copies of this Notice
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Take notic accompany Protection, the Applic	e that under Chapter 22-6 of the West Virginia Code ying documents for a permit to plug and abandon a v with respect to the well at the location described or ation, and the plat have been mailed by registered cumstances) on or before the day of mailing or delive OFFICIAL SEAL Well Operator NOTARY PUBLIC By: STATE OF WEST VIRGINIA	e, the undersigned we well with the Chief of a the attached Applicator certified mail or certified the Chief. HG Energy, LLC Diane White	ell operator proposes to file or has filed this Notice and Application and the Office of Oil and Gas, West Virginia Department of Environment ation and depicted on the attached Form WW-6. Copies of this Notice
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Take notice accompany Protection, the Applic certain circ	of that under Chapter 22-6 of the West Virginia Code ying documents for a permit to plug and abandon a v with respect to the well at the location described or ation, and the plat have been mailed by registered cumstances) on or before the day of mailing or delive OFFICIAL SEAL Well Operator NOTARY PUBLIC By: STATE OF WEST VIRGINIA S. DIANNE DULANEY IS: 5260 Dupont Road Address Parkersburg West Virginia 26101 My Commission Expires Oct. 4, 2016 Telephone	e, the undersigned we well with the Chief of a the attached Application certified mail or cry to the Chief. HG Energy, LLC Diane White Agent 5260 Dupont Road Parkersburg, WV: 304-420-1119	ell operator proposes to file or has filed this Notice and Application ar the Office of Oil and Gas, West Virginia Department of Environment ation and depicted on the attached Form WW-6. Copies of this Notice delivered by hand to the person(s) named above (or hy publication Diagra. White.

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 your personal information, please contact DEP's Chief Privacy Officer at depprivacyoffice@wv.gov.

08/07/2015

WW-9 Rev. 5/08

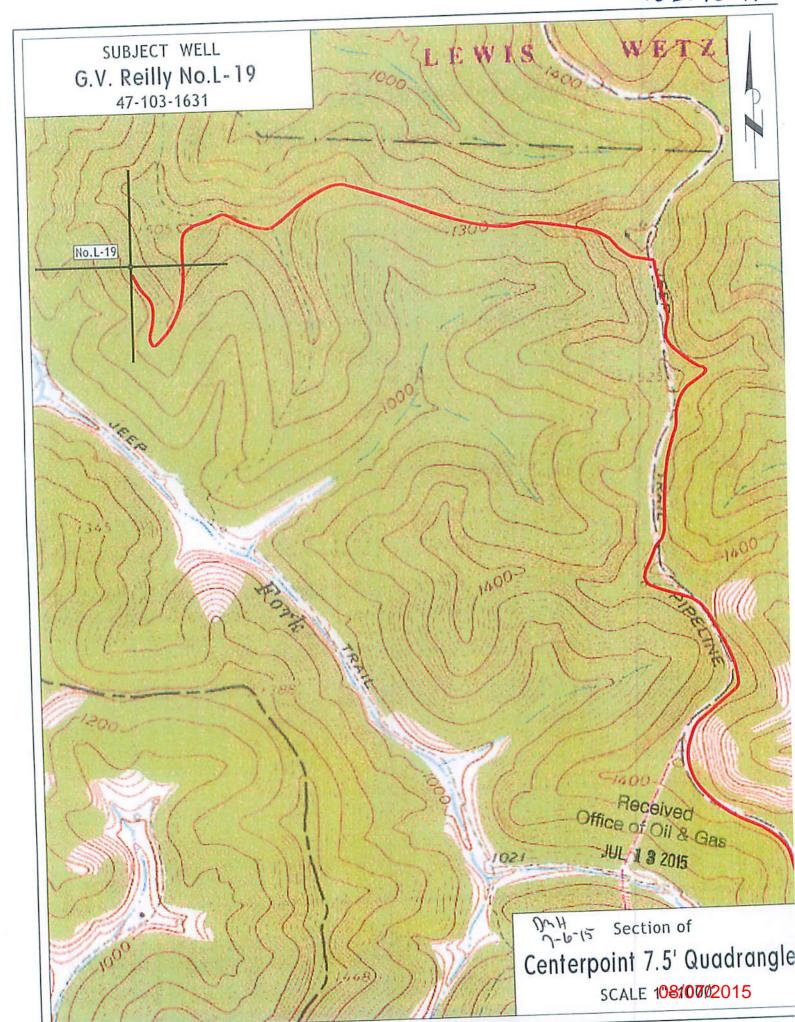
	Page		of	
API Number 47	7 _ 103		1631	
Operator's Well	No. GV Rell	y L-19		

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

CONSTRUCTION AND RECLAMATION PLAN AND SITE REGISTRATION APPLICATION FORM

	gy, LLC	OP Code 494497948	
vatershed Piney Fork	Quadran	ngle Centerpoint 7.5'	
lavation 1242'	County Wetzel	District Green	
Description of anticipated Pit V	Waste: Fluids encountered whi	le plugging subject well	
Vill a synthetic liner be used i			DMH
			DMH 7-6-1
Proposed Disposal Method Fo			
Lan	nd Application derground Injection (UIC Permit Number_		
The state of the s	(-t ADI Number)
KC	Site Dispposal (Supply form WW-9 for dis	sposal location)	
Off	ner (Explain		
Proposed Work For Which Pi	t Will Be Used:	1 V 1 C	
Dri	illing X	Swabbing	
Wo	orkover X	lugging	
Ott	ner (Explain		
I certify that I under	fice of Oil and Gas of the west virginia be	andition of the general nermit a	nd/or other appl
on August 1, 2005, by the Of provisions of the permit are law or regulation can lead to I certify under pena application form and all at	enforceable by law. Violations of any term enforcement action. alty of law that I have personally examine tachments thereto and that, based on my believe that the information is true, accuming information, including the possibility of firm	or condition of the general permit and am familiar with the informatinguity of those individuals immediate, and complete. I am aware that	and/or other application submitted of the submitted of th
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	LEGEND	
Property Boundary	Diversion William 1997	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
Rond = = = = = = = = = = = = = = = = = = =	Spring O	
Existing Fence — × — × — × —	Wet Spot	_
Planned Fence/_/_//	Drain Pipe with size in inches	@
Stream	Waterway C+ C+	
Open Ditch	Cross Drain	
Rock 635685	Artificial Filter Strip	* * * * * * * * * * * * * * * * * * * *
North N	Pit: cut walls	يللن
Buildings (Fin	Pit: compacted fill walls	111
Water wells	Area for Land Application of Pit V	
Drill site		محسنست
m A Dieturhed	1.1 Prevegetation pH	
roposed Revegetation Treatment: Acres Disturbed	6.5	
Lime 3Tons/acre or to co	rrect to pH	
Fertilizer (10-20-20 or equivalent)	00 lbs/acre (500 lbs minimum)	
Straw 2	Tons/acre	
Mulch	1 ons/acre	
	Seed Mixtures	
Area I	Area	II lbs/acre
Seed Type lbs/acre	Seed Type	40
Tall Fescue 40	Tall Fescue	
Ladino Clover 5	Ladino Clover	5
Edulio Gioto.		
Sediment control should be in p	place at all times	
Occurrient Constitution		
Attach: Drawing(s) of road, location,pit and proposed area	for land application.	
Photocopied section of involved 7.5' topographic s	sneet.	
		Received
Plan Approved by:		Office of Oil & G
Comments:		JUL 1 3 2015
	Date: 1-6-15	
Title: Oil + Ger Inspector	Date	



West Virginia Department of Environmental Protection Office of Oil & Gas

WELL LOCATION FORM: GPS

API: 47-	- 103 - 1631	WELL NO:	L-19
FARM NAME:	G.V. Reilly No.L-19		
RESPONSIBLE PARTY N	NAME: H.G. En	ergy, LLC	
COUNTY:	Wetzel	DISTRICT:	Green
QUADRANGLE:	Centerpoint 7.5'		
SURFACE OWNER:	W.Va. Dept. of Na	tural Resources	
ROYALTY OWNER:	American Energy	Partners, LLC et al.	
UTM GPS NORTHING:	4,371,175	(NAD 83)	
UTM GPS EASTING:	527,854	(NAD 83) GPS ELEVATION:	375 m. (1230'
height above 2. Accuracy to	AD 1983, Zone:17 North, Ove mean sea level (MSL) - roo Datum - 3.05 meters ction Method:	Coordinate Units: meters, Altitude: neters.	
Survey Grade G			
Mapping Grade	GPS X Post Processed Di Real-Time Differe		
	formation required by law a	the best of my knowledge and nd the regulations issued and	Received ffice of Oil & Gas JUL 13 2015
Diane White	Diane C. White	Designated Agen	
Signature		Title	
June 3,	2015	_	
Date			