

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 14, 2016

WELL WORK PLUGGING PERMIT Plugging

This permit, API Well Number: 47-4301722, 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

Chief

James Martin

Operator's Well No: 2

Farm Name: NUNN, S. W. API Well Number: 47-4301722

Permit Type: Plugging
Date Issued: 07/14/2016

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 February 11	20_16
2)Operator's	
Well No. SW Nunn 2	
3)API Well No. 47-043	- 1722

STATE OF WEST VIRGINIA

		RONMENTAL PROTECTION OIL AND GAS
	APPLICATION FOR A PERM	MIT TO PLUG AND ABANDON
4)	Well Type: Oil _X _/ Gas _X _/ Liquid	d injection/ Waste disposal/
		derground storage) Deep/ Shallow_X
5)	Location: Elevation 1037'	Watershed Hayzlett Fork
	District Duval	County Lincoln Quadrangle Garrett's Bend 7.5
6)	Well Operator HG Energy, LLC	7)Designated Agent Diane White
-,	Address 5260 Dupont Road	Address 5260 Dupont Road
	Parkersburg, WV 26101	Parkersburg, WV 26101
8)	Oil and Gas Inspector to be notified	9) Plugging Contractor
	Name Jeremy James	Name_To Be Determined Upon Approval of Perm
	Address PO Box 36	Address
	Clendenin, WV 25045	
0)	Work Order: The work order for the mann	ner of plugging this well is as follows:

** See Attached Sheet **

RECEIVED Office of Oil and Gas

JUN 3 0 2016

	WV Department of Environmental Protection
Notification must be given to the district oil and gas work can commence.	inspector 24 hours before permitted
Work order approved by inspector	Date <u>6-13-76</u>
	07/15/2016

WW-4B - Conti Rev. 2/01

1)	Date:	February	11, 2	2016		
2)	Operator's Wel	l Number				
		S W Nu	nn 2			
3)	API Well No:	47	187	043	6.7	1722
		State		County		Permit

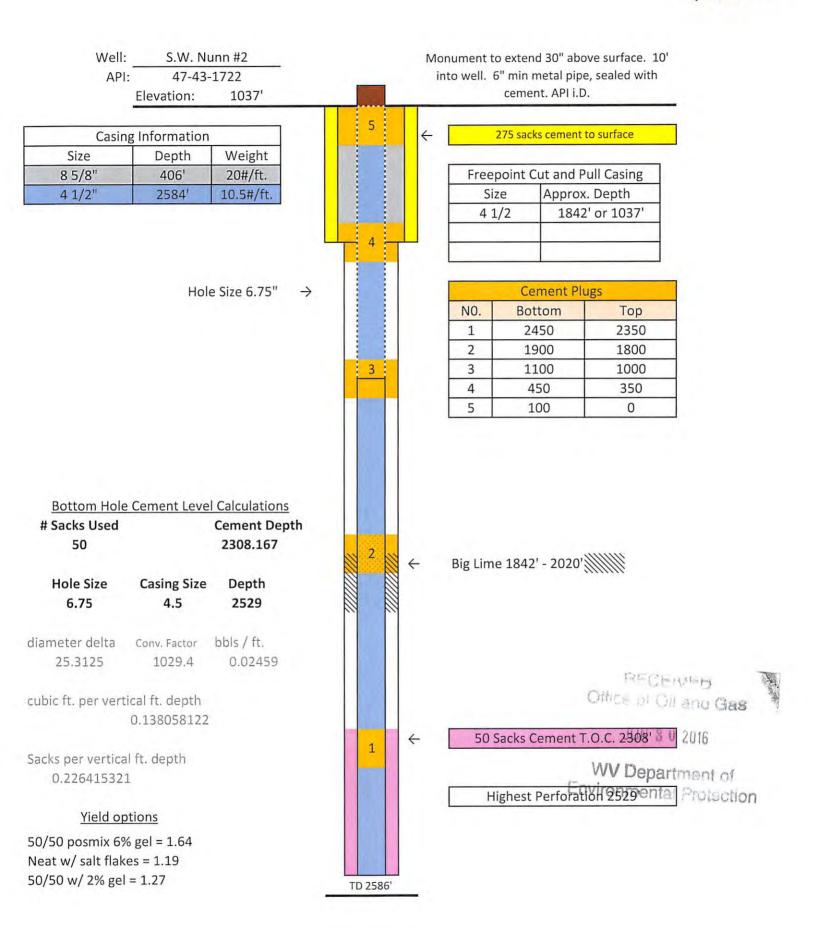
STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION OFFICE OF OIL AND GAS

APPLICATION FOR A PERMIT TO PLUG AND ABANDON

4)	WELL TYPE:	Oil	x Gas s", Production		Liquid Inject Undergroun		Waste Dispo	Shal	llow	x
		(II Ga		V	_				_	
5)	LOCATION:	Elevation:	103′		Watershed:	Hayzlett For		- 1 1 mar 1 i	C	#- D176
		District:	Duv	al	County: _	Lincoln	Qi	uadrangle	Garret	t's Bend 7.5
6)	WELL OPERAT	TOR: HG Er	ergy, LLC		494497948	7) DESIGNAT	many and the state of the state	Diane W		
	Address		Supont Road				Address	5260 Duj		
		Parker	sburg, WV 2	6101			_	Parkersb	urg, W	V 26101
8)	OIL & GAS INS	SPECTOR TO	BE NOTIF	TED		9) PLUGGING	CONTRACT	OR		
-,	Name	Jeremy Jan				Name	To Be Determ		Approva	l of Permit
	Address	P. O. Box 3				Address				
		Clendenin,	WV 25045			1.000				
Plug Loca Plug Loca	k for free-point at g # 2 - Approx. 1 ated at top of B g #3 - 1100' - 10 ated at elevatio be isn't free at elevatio	.900' - 1800 ig Lime - 4 1 00' n, if pipe wa	/2" casing s	stub at 1842', pa	rt and pull at	elevation (103	7')	(35))
	Set additional plu g #4 - 450' - 350		ing stub.							
Plug	ated at 8 5/8" c g #5 - 100' - 0' face	asing shoe,	below fresh	n water						
Rec	over all possibl	e casing. If	casing can	not be reco	vered, perfor	ate for plug pla	cement.			
	Classic Sta									

Monument 6" minimum diameter metal pipe
30" above surface
10' in well below surface
Sealed with cement
API identification (1/2") height numbering

6% Gel between all plugs



PENNZOIL COMPANY Well Completion Report

Lease: S. W. NUNN Well No. 2 New Well X Old Well
District: Duval County: Lincoln State: West Virginia
Pool Name: Griffithsville Northeast Pool No. 57 Elevation 1045.74' KB.XX
Producing Formation: Berea Depth: From 2521' to 2542'
Date Drilled In: October 20, 1976 Pays: Oil: From 2521' to 2542'
Original Total Depth: 2583' From to
Plug Back Depth: 2554' Gas: From 2521' to 2542' to to
Production Initial Present After Fracture
011
Gas
Surface Csg. set @ 411' KB: CK Gr. H-40 New: Used Wt. 20# Collars ST&C
Cement Reg. Neat Amount 275 Sacks Plug Down @ 11:45 XXXX PM Date 10/15/76
Production Csg. set @ 2575' KB:GL Gr. ERW New:Used Wt.10.50# Collars ST&C
Cement50/50 Posmix Amount 50 Sacks Plug Down @ 1:00 AMXRM Date 10/21/76
Logged by: Basin Surveys Date: October 20, 1976
Logs Used: Gamma Ray-Comp. Density-Caliper
Perforated by: McCullough Date: November 17, 1976
Perforations: 2529'-2534' - 4 holes/ft 20 holes
Treatment Data Breaking Fluid F.R. PRECEIVED
- Fluid Sand Acid Solvent Gel Agent Loss Agent Agent and Gas
Type Crude 20/40 15% HC1 Parathin 15-N 15-N 15-N 15-N 15-N 15-N 15-N 15-N
Amount 550 27,000 500 55
Breakdown Pressure: 1500 Treating Pressure: Max. 2400 Min. 2300 Wyg. 2400 Entment Of
Avg. Inj. Rate 29.0 BPM ISIP 1500 @ 3:25 XXX:PM 5 min Figure 1500 mental Protection
10 min. SIP 850 15 min. SIP 800 0ther 1-1/4 hr. SIP 300#
EQUIPMENT USED
Service Company: Halliburton HHP 1706
By: Jeffrey M. Beardmore Date Fractured: 11/17/76
07/15/2016

PENNZOIL COMPANY

NEW WELL REPORT

LEASE NO				ACRES	Working Distri	ст			Tur		
Ston	e W. Nu	ınn		FARM	WELL NO. 2	_ N	80	ap 124	W 		
Duva	1		Dist.	RICT OR	Lincoln						
LOCATION MADE	Augus				DRILLING COMME		october		QUAD. 76		
DRILLING EQUIPM	ENT USED		SPUDDER ROTARY		DRILLING COMPL		October	21,			
DRILLING EQUIPME FURNISHED BY	RILLING EQUIPMENT FWA Drilling Co.				TOTAL 2583	*83.					
ELEVATION: FLOOR 1045.74					DRILLING CONTRACTOR FWA Drilling Co.						
ELEVATION: GROUI	ND TO	37.74		FORMATI	WORK ORDER NO			-			
KIND	TOP	воттом	STEEL LINE MEAS.	TEST	KIND .	тор	воттом	STEEL LINE	TEST		
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and & Shale	. 8	972	12.1		-	+			-		
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haly Sand	1042	1169				1			-		
alt Sand	1160	1419				-			 		
hale .	141.9	1500						-			
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ig Injun	2947	2100						_	1.		
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58								-			
37.						4			07/15/201		

NEW WELL REPORT - CONTINUED

					DBIN	RECORD	
Date of Shot	SIZE	TRANSFE	PUT IN		_		ED OUT
1	8 5/8	TRANSFE	R NO.		INCH	TRANSFER NO	D. FEET
Name of Torpedo Co.				406	34		
No. of Quarts	4 1/2	-		2584	08		
Length of Shell							
Diameter of Shell							
Length of Anchor			Tr.				
Top of Shot							
Bottom of Shot		1					
Feet of Fluid in Hole When Shot						1	
Results:							
						-	-
					-		-
			-				_
	112				1		li .
· · · · · · · · · · · · · · · · · · ·			PA	CKER	REC	ORD	
INITIAL PRODUCTION FIRST 24 HOURS	ll KIN	, a	1	SIZE		PTH SET	DAMM
Open Flow . /10ths Water inInch							DATE SET
/10ths Merc. inInch	Steel S			5/8	14	II RKB	10-15-7
VolumeCu. Ft.	Guide S	ioe	4	1/2		140	
Rock Pressurelbshrs.	-						
Oil							
Oilbbls., First 24 hrs.	1		11		1		
ACIDIZATION OD TO		1					
ACIDIZATION OR FRACTURING RECORD						CEMENTED	
DATE WELL ACIDIZED		- 4	- /-			RKB 10-	7.7.2
DATE WELL FRACTURED		8 :	5/8	SIZE_ 4	11	_ RKB 10-	15-76
NAME OF COMPANY	*			275 s	ks.	Vest Cemen	t 3% cc
(List below materials used in Adidizing or Fracturing, i.e., Sand, Cruster W.	de Oil Casoline	BAG	S USE		17.5		floc
Water, Kerosene, Mothballs, Acid, etc., giving gallons, barrels and	pounds.)		1/2	. 25	75	-סגם זח-	2774
			-/~	5125 00 7	DE	FTRKB 10-	1 - 10 ·
	•	Pie		Poz-	nix :	% cc 1/8#	flocale
· · · · · · · · · · · · · · · · · · ·	-	DAG					
				SIZE		FT.	
	-	BAG	s User	,			
573 Bbl. Crude Oil				SIZE	_	FT.	
27,000 Lbs. 20/40 Sam		BAG	S USED				-
500 Gal 15% HCl		1					
			7.				
# .		-					
BREAKDOWN BRESSING 1500			100				
PUMPING PRESSURE Mex 3300 Min 2400	_						
AVERAGE PUMPING RATE/MINUTE 28.4 BPM							
AVERAGE FUMPING RATE/MINUTE 2004 DATE		TOP	DEPTH	OF CEM	ENT S	HOWN BY TEM	PERATURE I
		1112					
PUMPING TIME							
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UMPING TIME ESULT AFTER GAS TREATMENT OIL OCK PRESSURE AFTER TREATMENT. MARKS:	BSLS.		elini		Enw		Dil and g ()

WW-4A	
Revised	6-07

1) Date:	February 11, 2	016		
2) Operator's V S. W. Nunn 2	Well Number	er		
2) ADI Wall No	. 17	0.43	1722	

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

(a) Name	Orville Nunn	Name	NA
Address	2340 Garrett's Bend Road	Address	
	Sod, WV 25564		
(b) Name		(b) Coal Ow	vner(s) with Declaration
Address		Name	NA
		Address	
(c) Name		Name	
Address		Address	
6) Inspector	Jeremy James	(c) Coal Les	ssee with Declaration
Address	P. O. Box 36	Name	NA
	Clendenin, WV 25045	Address	
Telephone	304-951-2596		

TO THE PERSONS NAMED ABOVE: You should have received this Form and the following documents:

- (1) The application to Plug and Abandon a Well on Form WW-4B, which sets out the parties involved in the work and describes the well its and the plugging work order; and
- (2) The plat (surveyor's map) showing the well location on Form WW-6.

The reason you received these documents is that you have rights regarding the application which are summarized in the instructions on the reverses side. However, you are not required to take any action at all.

Take notice that under Chapter 22-6 of the West Virginia Code, the undersigned well operator proposes to file or has filed this Notice and Application and accompanying documents for a permit to plug and abandon a well with the Chief of the Office of Oil and Gas, West Virginia Department of Environmental Protection, with respect to the well at the location described on the attached Application and depicted on the attached Form WW-6. Copies of this Notice, the Application, and the plat have been mailed by registered or certified mail or delivered by hand to the person(s) named above (or by publication in certain circumstances) on or before the day of mailing or delivery to the Chief.

HG Energy, LLC Diane White	Diane	White	
Agent			RECEIVED
5260 Dupont Roa	ıd		Office of Oil and Goo
Parkersburg, WV	26101		348
304-420-1119			JUN 8 0 355
day of February,	2016		WV Denartment of
	Diane White Agent 5260 Dupont Roa Parkersburg, WV 304-420-1119	Diane White Diane Agent 5260 Dupont Road Parkersburg, WV 26101 304-420-1119	Diane White Agent 5260 Dupont Road Parkersburg, WV 26101 304-420-1119

My Commission Expires June 23, 200

Oil and Gas Privacy Notice

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 depprivacyoffier@wv.gov.

WW-9 (5/16)

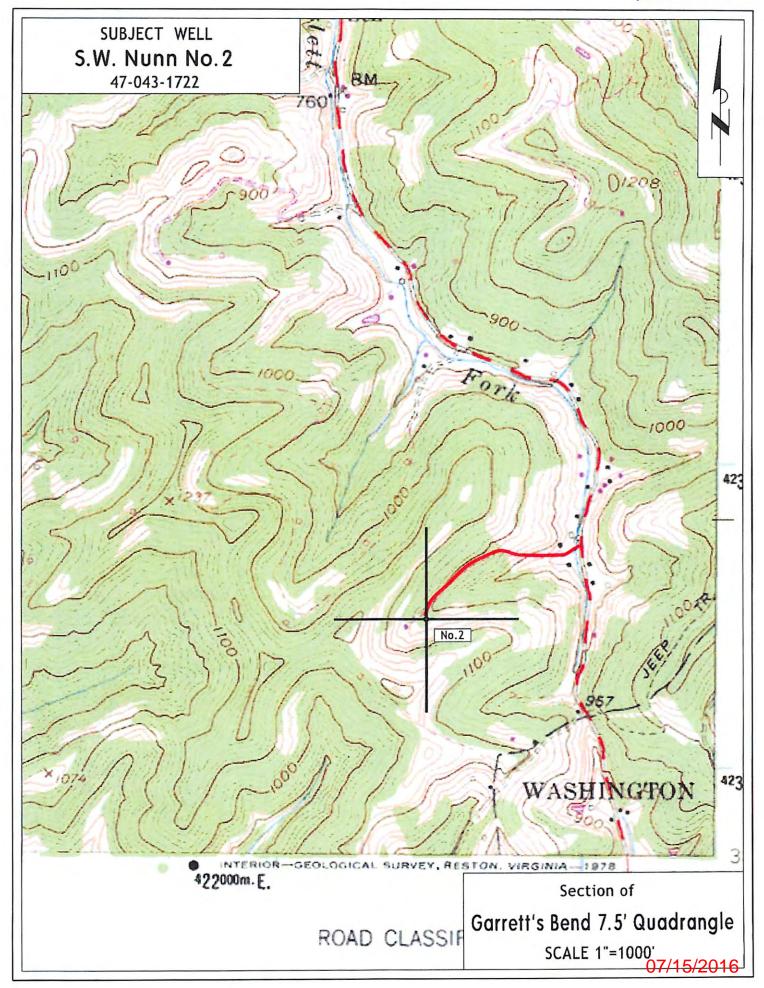
API Number 47	_ 043	_ 1722	
Operator's Well 1	No. SWN	unn 2	

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

FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

Vatershed (HUC 10) Hazlett Fork	Quadrangle Garrett's Bend 7.5'
Oo you anticipate using more than 5,000 bbls of water to c	complete the proposed well work? Yes No
Vill a pit be used? Yes No ✓	
If so, please describe anticipated pit waste:	
Will a synthetic liner be used in the pit? Yes	No If so, what ml.?
Proposed Disposal Method For Treated Pit Waste	es:
	rovide a completed form WW-9-GPP)
Underground Injection (UIC P Reuse (at API Number	Permit Number)
Off Site Disposal (Supply form	n WW-9 for disposal location) uled for off site disposal at an authorized site to be determined at the time the well is plugged
Vill closed loop system be used? If so, describe: NA	
rilling medium anticipated for this well (vertical and hor	rizontal)? Air, freshwater, oil based, etc. NA
-If oil based, what type? Synthetic, petroleum, et	tc. NA
dditives to be used in drilling medium? NA	
rill cuttings disposal method? Leave in pit, landfill, remo	oved offsite, etc. NA
-If left in pit and plan to solidify what medium w	ill be used? (cement, lime, sawdust)
-Landfill or offsite name/permit number?	
	10 0 1 1 0 1 11
West Virginia solid waste facility. The notice shall be provided it was properly disposed.	and Gas of any load of drill cuttings or associated waste rejected at any vided within 24 hours of rejection and the permittee shall also disclose
Vest Virginia solid waste facility. The notice shall be provided it was properly disposed. I certify that I understand and agree to the terms on April 1, 2016, by the Office of Oil and Gas of the Westerovisions of the permit are enforceable by law. Violations or regulation can lead to enforcement action. I certify under penalty of law that I have personal policition form and all attachments thereto and that, base	and conditions of the GENERAL WATER POLLUTION PERMIT issued st Virginia Department of Environmental Protection. I understand that the s of any term or condition of the general permit and/or other applicable law conally examined and am familiar with the information submitted on this ed on my inquiry of those individuals immediately responsible for obtaining courate, and complete. I am aware that there are significant penalties for the or imprisonment.
I certify that I understand and agree to the terms in April 1, 2016, by the Office of Oil and Gas of the Westovisions of the permit are enforceable by law. Violations in regulation can lead to enforcement action. I certify under penalty of law that I have personal polication form and all attachments thereto and that, base the information, I believe that the information is true, actually the possibility of forms.	and conditions of the GENERAL WATER POLLUTION PERMIT issued st Virginia Department of Environmental Protection. I understand that the s of any term or condition of the general permit and/or other applicable law onally examined and am familiar with the information submitted on this ed on my inquiry of those individuals immediately responsible for o btaining courate, and complete. I am aware that there are significant penaltics for the or imprisonment.
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I certify that I understand and agree to the terms n April 1, 2016, by the Office of Oil and Gas of the West revisions of the permit are enforceable by law. Violations or regulation can lead to enforcement action. I certify under penalty of law that I have person polication form and all attachments thereto and that, base the information, I believe that the information is true, act ubmitting false information, including the possibility of factorization form and all attachments. Company Official Signature Diane White	and conditions of the GENERAL WATER POLLUTION PERMIT issued st Virginia Department of Environmental Protection. I understand that the s of any term or condition of the general permit and/or other applicable law onally examined and am familiar with the information submitted on this ed on my inquiry of those individuals immediately responsible for o ptaining courate, and complete. I am aware that there are significant penaltics for the information of the general permit and/or other applicable law onally examined and am familiar with the information submitted on this ed on my inquiry of those individuals immediately responsible for o ptaining courate, and complete. I am aware that there are significant penaltics for the information submitted on this ed on my inquiry of those individuals immediately responsible for o ptaining courate, and complete. I am aware that there are significant penaltics for the information submitted on this ed on my inquiry of those individuals immediately responsible for o ptaining courate, and complete. I am aware that there are significant penaltics for the information submitted on this ed on my inquiry of those individuals immediately responsible for o ptaining courate, and complete. I am aware that there are significant penaltics for the information submitted on this ed on my inquiry of those individuals immediately responsible for o ptaining course.
Vest Virginia solid waste facility. The notice shall be providere it was properly disposed. I certify that I understand and agree to the terms on April 1, 2016, by the Office of Oil and Gas of the Westerovisions of the permit are enforceable by law. Violations or regulation can lead to enforcement action. I certify under penalty of law that I have person polication form and all attachments thereto and that, base the information, I believe that the information is true, act ubmitting false information, including the possibility of factorized Company Official Signature Company Official Signature Diane White	and conditions of the GENERAL WATER POLLUTION PERMIT issued st Virginia Department of Environmental Protection. I understand that the s of any term or condition of the general permit and/or other applicable law onally examined and am familiar with the information submitted on this edon my inquiry of those individuals immediately responsible for obtaining courate, and complete. I am aware that there are significant penaltics for the imprisonment. OFFICIAL SEAL Notary Public, State Of West Virginia Price RII CHE 499 Dale Drive Mineral Wells, WV 26150 My Commission Expires June 23, 2020
Vest Virginia solid waste facility. The notice shall be providere it was properly disposed. I certify that I understand and agree to the terms on April 1, 2016, by the Office of Oil and Gas of the Westerovisions of the permit are enforceable by law. Violations of regulation can lead to enforcement action. I certify under penalty of law that I have personal period of the perio	and conditions of the GENERAL WATER POLLUTION PERMIT issued st Virginia Department of Environmental Protection. I understand that the s of any term or condition of the general permit and/or other applicable law onally examined and am familiar with the information submitted on this edon my inquiry of those individuals immediately responsible for obtaining courate, and complete. I am aware that there are significant penaltics for the imprisonment. OFFICIAL SEAL Notary Public, State Of West Virginia Price RII CHE 499 Dale Drive Mineral Wells, WV 26150 My Commission Expires June 23, 2020
I certify that I understand and agree to the terms of April 1, 2016, by the Office of Oil and Gas of the West revisions of the permit are enforceable by law. Violations of the permit are enforceable by law. Violations of the great to enforcement action. I certify under penalty of law that I have personal period of the permit attachments thereto and that, base the information, I believe that the information is true, act ubmitting false information, including the possibility of formation of the permit are enforceable by law. Violations or regulation can lead to enforcement action. I certify under penalty of law that I have personate information, including the possibility of formation of the permit are information in true, accompany Official Signature. Diane White Company Official Title Agent	and conditions of the GENERAL WATER POLLUTION PERMIT issued st Virginia Department of Environmental Protection. I understand that the s of any term or condition of the general permit and/or other applicable law onally examined and am familiar with the information submitted on this ed on my inquiry of those individuals immediately responsible for o btaining courate, and complete. I am aware that there are significant penaltics for the or imprisonment. OFFICIAL SEAL Notary Public, State Of West Virginia PYLER RICHE 499 Date Drive Mineral Wells, WV 26150 My Commission Expires June 23, 2020

Form WW-9		Operator	s Well No. S W Nunn 2
HG Energy	, LLC	•	
Proposed Revegetation Trea	tment: Acres Disturbed	1.0 acres Prevegetation	ı pH
	3 Tons/acre or to corre		
Fertilizer type 10)-20-20 or equivalent	<u>+</u>	
Fertilizer amount_	500	lbs/acre	
Mulch Straw	2	_Tons/acre	
		Seed Mixtures	
Te	emporary	Per	manent
Seed Type	lbs/acre	Seed Type	lbs/acre
Tall Fescue	40	Tall Fescue	40
_adino Clover	5	Ladino Clover	5
		<u> </u>	
	Control Will Be In	Place At All Times **	
			িছিত্ৰ প্ৰচ্চ —— Office of Oil and Ga
			JUN 3 0 ZŪ16
			WV Department of
			Environmantal Protecti
itle: 0:1 2 6as	Inspector	Date: 6-13-16	
ield Reviewed? (Yes) No	



WW-7 5-02

West Virginia Department of Environmental Protection Office of Oil & Gas

WELL LOCATION FORM: GPS

RESPONSIBLE PARTY NAME: H.G. Energy, LLC COUNTY: Lincoln DISTRICT: Duval QUADRANGLE: Garrett's Bend 7.5' SURFACE OWNER: Orville Nunn ROYALTY OWNER: HG Energy, LLC, et al. UTM GPS NORTHING: 4,234,714 (NAD 83) UTM GPS EASTING: 422,510 (NAD 83) GPS ELEVATION: 316 m 10 The Responsible Party named above has chosen to submit GPS coordinates in lieu of preparing a new well location plat for a plugging permit on the above well. The Office of Oil & Gas will not accept GPS coordinates that do not meet the following requirements: 1. Datum: NAD 1983, Zone:17 North, Coordinate Units: meters, Altitude: height above mean sea level (MSL) - meters. 2. Accuracy to Datum - 3.05 meters 3. Data Collection Method: Survey Grade GPS Post Processed Differential Real-Time Differential Real-Time Differential Mapping Grade GPS X Post Processed Differential X Real-Time Differential I the undersigned, hereby certify this data is correct to the best of my knowledge and belief and shows all the information required by law and the regulations issued and prescribed by the Office of Oil and Gas. Diame White Diane C. White Designated Agent Title	API:	47-	043 - 1722		WELL NO:	2
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Signature Title	belief and show	ws all the info	ormation required by law		A. C. B. C. A. E. D. F. O. T. C. W. C.	
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June 30, 2016	Signature				Title	
Date		June 30,	2016			