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west virginia department of environmental protection

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Office of Oil and Gas  
601 57<sup>th</sup> Street, S.E.  
Charleston, WV 25304  
(304) 926-0450  
fax: (304) 926-0452

Austin Caperton, Cabinet Secretary  
[www.dep.wv.gov](http://www.dep.wv.gov)

Wednesday, October 17, 2018  
WELL WORK PLUGGING PERMIT  
Vertical Plugging

HG ENERGY, LLC  
5260 DUPONT ROAD

PARKERSBURG, WV 26101

Re: Permit approval for 3  
47-043-02322-00-00

This well work permit 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 any additional specific 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. Please be advised that form WR-38, Affidavit of Plugging and Filling Well, is to be submitted to this office within 90 days of 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.

Per 35 CSR 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- 0450.

James A. Martin  
Chief

Operator's Well Number: 3  
Farm Name: HANNAH, PAUL  
U.S. WELL NUMBER: 47-043-02322-00-00  
Vertical Plugging  
Date Issued: 10/17/2018

Promoting a healthy environment.

## 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

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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.

WW-4B  
Rev. 2/01

1) Date September 5, 2018  
2) Operator's  
Well No. Hannah Paul 3  
3) API Well No. 47-043 - 02322

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 \_\_\_ / Liquid injection \_\_\_ / Waste disposal \_\_\_ /  
(If "Gas, Production \_\_\_ or Underground storage \_\_\_) Deep \_\_\_ / Shallow x

5) Location: Elevation 847' 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 Jeffery L. Smith Name To Be Determined Upon Approval of Permit  
Address 5369 Big Tyler Road Address \_\_\_\_\_  
Cross Lanes, WV 25313

10) Work Order: The work order for the manner of plugging this well is as follows:

\*See Attached \*

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SEP 18 2018  
WV Department of  
Environmental Protection

Notification must be given to the district oil and gas inspector 24 hours before permitted work can commence.

Work order approved by inspector Jeffrey Smith Date 9-10-17

WW-4B - Conti  
Rev. 2/01

1) Date: September 5, 2018  
2) Operator's Well Number  
Hannah Paul 3  
3) API Well No: 47 - 043 - 2322  
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        Liquid Injection        Waste Disposal         
(If "Gas", Production x Underground Storage       ) Deep        Shallow x

5) LOCATION: Elevation: 847' Watershed: Hayzlett Fork  
District: Duval County: Lincoln Quadrangle Garrett's Bend 7.5'

6) WELL OPERATOR: HG Energy, LLC 494497948 7) DESIGNATED AGENT Diane White  
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 Jeffery L. Smith Name To Be Determined Upon Approval of Permit  
Address 5369 Big Tyler Road Address         
Cross Lanes, WV 25313       

10) WORK ORDER: The work order for the manner of plugging this well is as follows:

TD- 2,390'

Manners of plugging:

Plug No 1 2040'-1940'  
Free point, cut, & pull 4 1/2" est 1500'  
Plug No 2 1550'-1450'  
Plug No 3 1000'-900'  
Plug No 4 495'-395'  
free point, Cut, & pull 4 3/4" - est 100'  
Plug No 5 150'-0'  
Located at surface

8 7/8" SET @ 261' (FJS)  
IF 8 7/8" IS CTS THEN SET CLASS A CEMENT PLUG  
FROM 301' TO SURFACE.

Recover all possible casing. If casing can not be recovered, perforate for plug placement.

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

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PENNZOIL COMPANY  
Well Completion Report

47-043-02322P

Lease: Hannah Paul Well No. 3 New Well x Old Well       
District: Duval County: Lincoln State: West Virginia

Pool Name: Griffithsville Northeast Pool No. 57 Elevation 847' KB: OK

Producing Formation: Berea Depth: From 2325' to 2344'

Date Drilled In: 5-4-79 Pays: Oil: From      to       
From      to     

Original Total Depth: 2392'

Plug Back Depth: 2366'

Gas: From      to       
From      to     

Production                      Initial                      Present                      After Fracture

Oil                      \_\_\_\_\_

Gas                      \_\_\_\_\_

8-5/8" Surface Csg. set @ 261 KB: OK Gr. H-40 New: Used Wt. 20# Collars ST&C

Cement Reg. Neat Amount 175 Sacks Plug Down @ 11:00 ~~AM~~ PM Date 5-11-79  
4-1/2" w/3% c.c.

Production Csg. set @ 2386' KB: OK Gr. K-55 New: Used Wt. 10.5# Collars ST&C

Cement Reg. Neat Amount \_\_\_\_\_ Sacks Plug Down @ 11:00 ~~AM~~ PM Date 5-4-79  
w/10% Salt

Logged by: Basin Surveys Date: 5-4-79

Logs Used: Gamma Ray-Compensated Density-Caliper

Perforated by: McCullough Date: 6-6-79

Perforations: 2335' - 2340' 20 holes

Treatment Data

	<u>Fluid</u>	<u>Sand</u>	<u>Acid</u>	<u>Solvent</u>	<u>Gel</u>	<u>Breaking Agent</u>	<u>Fluid Loss Agent</u>	<u>F.R. Agent</u>	<u>N.E. Agent</u>
Type	<u>Oil</u>	<u>20/40</u>	<u>15% HCl</u>	_____	_____	_____	_____	_____	_____

Amount 550 Bbls. 25,000# 500 Gal.

Breakdown Pressure: 2500 Treating Pressure: Max. 3200 Min. 2050 Avg. 3100

Avg. Inj. Rate 26.3 BPM ISIP 1900 @ \_\_\_\_\_ AM:PM 5 min. SIP \_\_\_\_\_

10 min. SIP \_\_\_\_\_ 15 min. SIP 1400 Other 2 Hrs. 7 Min. SIP 1200

EQUIPMENT USED

Service Company: Halliburton

By: Jeff Beardmore Date Fractured: \_\_\_\_\_

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Office of Oil and Gas  
SEP 18 2018  
HHP 1998  
WV Department of Environmental Protection  
6-6-79

**PENNZOIL COMPANY**  
**Well Completion Report**

Lease: Hannah Paul Well No. 3 New Well X Old Well     

District: Duval County: Lincoln State: West Virginia

Pool Name: Griffithsville Northeast Pool No. 57 Elevation 847' KB: ~~OK~~

Producing Formation: Berea Depth: From 2325' to 2344'

Date Drilled In: 5-4-79 Pays: Oil: From      to       
From      to     

Original Total Depth: 2392'

Plug Back Depth: 2366' Gas: From      to       
From      to     

Production                      Initial                      Present                      After Fracture

Oil                                                                                                                              

Gas  
8-5/8"                                                                                                                              

Surface Csg. set @ 261 KB: ~~OK~~ Gr. H-40 New: Used Wt. 20# Collars ST&C

Cement Reg. Neat Amount 175 Sacks Plug Down @ 11:00 ~~AM~~ PM Date 5-11-79  
4-1/2" w/3% c.c.

Production Csg. set @ 2386' KB: ~~OK~~ Gr. K-55 New: Used Wt. 10.5# Collars ST&C

Cement Reg. Neat Amount      Sacks Plug Down @ 11:00 ~~AM~~ PM Date 5-4-79  
w/10% Salt

Logged by: Basin Surveys Date: 5-4-79

Logs Used: Gamma Ray-Compensated Density-Caliper

Perforated by: McCullough Date: 6-6-79

Perforations: 2335' - 2340' 20 holes

Treatment Data

Type	Fluid	Sand	Acid	Solvent	Gel	Breaking Agent	Fluid Loss	F.R. Agent	N.E. Agent
Oil	20/40	15% HCl							
Amount	550 Bbls.	25,000#	500 Gal.						

Breakdown Pressure: 2500 Treating Pressure: Max. 3200 Min. 2050 Avg. 3100

Avg. Inj. Rate 26.3 BPM ISIP 1900 @      AM:PM 5 min. SIP     

10 min. SIP      15 min. SIP 1400 Other 2 Hrs. 7 Min. SIP 1200

EQUIPMENT USED

Service Company: Halliburton HHP 1998

By: Jeff Beardmore Date Fractured: 6-6-79

PRODUCTION DATA

Area Southern  
 Foreman Wade  
 Pool No. 57-Griff. N.E.  
 Meter No. \_\_\_\_\_

Farm Name Hannah Paul Well No. 3

47-043-02322P

Year 1981

Month	Gross Oil	Cum. Oil	Gross MCF	Cum. MCF	GOR CF/B	REMARKS
January	90	1535				FREEZING
February	73	1608				
March	34	1612				IN CIRCULATION
April	27	1639				BAD PUMP
May	0	1639				ONR
June	106	1745				MP OIL RUN
July	100	1845				
August	93	1938				
September	89	2027				
October						
November						
December						
Total						

Year \_\_\_\_\_

Month	Gross Oil	Cum. Oil	Gross MCF	Cum. MCF	GOR CF/B	REMARKS
January						
February						
March						
April						
May						
June						
July						
August						
September						
October						
November						
December						
Total						

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 SEP 18 2018  
 WV Department of  
 Environmental Protection

PRODUCTION DATA

Area Southern  
 Foreman Wade  
 Pool No. 51-Griff. N.E.  
 Meter No. \_\_\_\_\_

Farm Name Hannah Paul Well No. 3

Year 1981

Month	Gross Oil	Cum. Oil	Gross MCF	Cum. MCF	GOR CF/B	REMARKS
January	90	1535				FREEZING
February	73	1608				
March	34	1612				IN CIRCULATION
April	27	1639				BAD PUMP
May	0	1639				ONR
June	106	1745				MP OIL RUN
July	100	1845				
August	93	1938				
September	89	2027				
October						
November						
December						
Total						

Year \_\_\_\_\_

Month	Gross Oil	Cum. Oil	Gross MCF	Cum. MCF	GOR CF/B	REMARKS
January						
February						
March						
April						
May						
June						
July						
August						
September						
October						
November						
December						
Total						

47-043-02322P

WW-4A  
Revised 6-07

1) Date: September 5, 2018  
2) Operator's Well Number  
Hannah Paul # 3

3) API Well No.: 47 - 043 - 02322

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

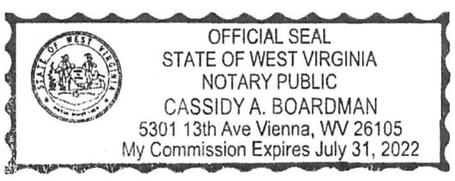
4) Surface Owner(s) to be served:	5) (a) Coal Operator
(a) Name <u>David Stowers</u>	Name <u>NA</u>
Address <u>1669 Garrett's Bend Road</u>	Address _____
<u>Sod, WV 25564</u>	_____
(b) Name _____	(b) Coal Owner(s) with Declaration
Address _____	Name <u>NA</u>
_____	Address _____
(c) Name _____	Name _____
Address _____	Address _____
_____	_____
6) Inspector <u>Jeffery L. Smith</u>	(c) Coal Lessee with Declaration
Address <u>5369 Big Tyler Road</u>	Name <u>NA</u>
<u>Cross Lanes, WV 25313</u>	Address _____
Telephone <u>681-313-6743</u>	_____

**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.



Well Operator HG Energy, LLC  
 By: Diane White  
 Its: Agent  
 Address 5260 Dupont Road  
Parkersburg, WV 26101  
 Telephone 304-420-1119

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Office of Oil and Gas  
SEP 18 2018  
WV Department of Environmental Protection

Subscribed and sworn before me this 5th day of September, 2018  
Cassidy A. Boardman Notary Public  
My Commission Expires 7/31/2022

**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 [depprivacyofficer@wv.gov](mailto:depprivacyofficer@wv.gov).

WW-9  
(5/16)

API Number 47 - 043 - 02322  
Operator's Well No. \_\_\_\_\_

STATE OF WEST VIRGINIA  
DEPARTMENT OF ENVIRONMENTAL PROTECTION  
OFFICE OF OIL AND GAS  
FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

Operator Name HG Energy, LLC OP Code 494497948

Watershed (HUC 10) Hayzlett Fork Quadrangle Garrett's Bend 7.5'

Do you anticipate using more than 5,000 bbls of water to complete the proposed well work? Yes  No

Will a pit be used? Yes  No

If so, please describe anticipated pit waste: Fluids encountered while plugging well

Will a synthetic liner be used in the pit? Yes  No  If so, what ml.? 20 mil

Proposed Disposal Method For Treated Pit Wastes:

- Land Application (if selected provide a completed form WW-9-GPP)
- Underground Injection ( UIC Permit Number \_\_\_\_\_)
- Reuse (at API Number \_\_\_\_\_)
- Off Site Disposal (Supply form WW-9 for disposal location)
- Other (Explain \_\_\_\_\_)

Will closed loop system be used? If so, describe: No

Drilling medium anticipated for this well (vertical and horizontal)? Air, freshwater, oil based, etc. NA

-If oil based, what type? Synthetic, petroleum, etc. NA

Additives to be used in drilling medium? NA

Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc. Remove offsite

-If left in pit and plan to solidify what medium will be used? (cement, lime, sawdust) NA

-Landfill or offsite name/permit number? Will be determined at time of offsite disposal

Permittee shall provide written notice to the Office of Oil and Gas of any load of drill cuttings or associated waste rejected at any West Virginia solid waste facility. The notice shall be provided within 24 hours of rejection and the permittee shall also disclose where it was properly disposed.

I certify that I understand and agree to the terms and conditions of the GENERAL WATER POLLUTION PERMIT issued on April 1, 2016, by the Office of Oil and Gas of the West Virginia Department of Environmental Protection. I understand that the provisions of the permit are enforceable by law. Violations of any term or condition of the general permit and/or other applicable law or regulation can lead to enforcement action.

I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form and all attachments thereto and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine or imprisonment.

Company Official Signature Diane White

Company Official (Typed Name) Diane White

Company Official Title Agent

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SEP 18 2018

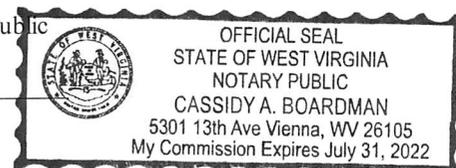
WV Department of  
Environmental Protection

Subscribed and sworn before me this 5th day of September, 20 18

Cassidy A. Boardman

Notary Public

My commission expires 7/31/2022



Proposed Revegetation Treatment: Acres Disturbed 1.3 acres Prevegetation pH \_\_\_\_\_

Lime 3 Tons/acre or to correct to pH 6.5

Fertilizer type 10-20-20

Fertilizer amount 500 lbs/acre

Mulch Straw 2 Tons/acre

Seed Mixtures

Temporary		Permanent	
Seed Type	lbs/acre	Seed Type	lbs/acre
Tall Fescue	40	Tall Fescue	40
Ladino Clover	5	Ladino Clover	5

**\*\*Sediment Control Will Be Maintained At All Times\*\***

Attach:

Maps(s) of road, location, pit and proposed area for land application (unless engineered plans including this info have been provided). If water from the pit will be land applied, provide water volume, include dimensions (L, W, D) of the pit, and dimensions (L, W), and area in acres, of the land application area.

Photocopied section of involved 7.5' topographic sheet.

Plan Approved by: Jeffrey Smith

Comments: All sediment control to be removed prior to release.

Title: Oil & Gas Inspector

Date: 9-10-17

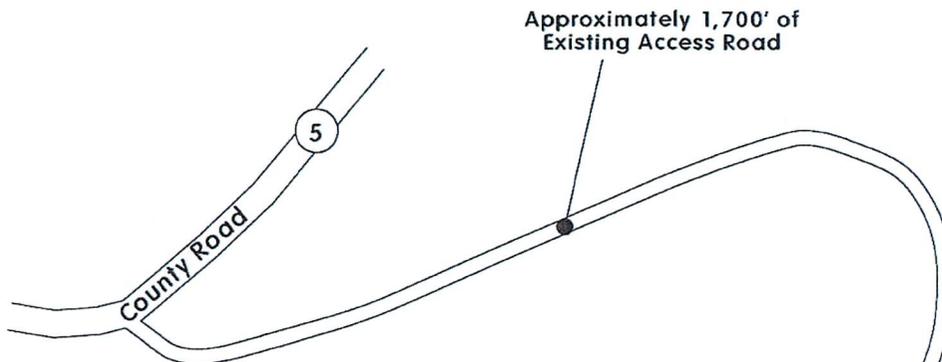
Field Reviewed?  Yes  No

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WV Department of  
Environmental Protection

# Reclamation Plan For:

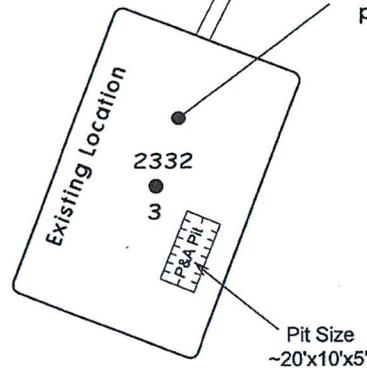
## Hannah Paul No.3

47-043-2322



**Hannah Paul Lease**  
David Stowers  
- Surface

**NOTE:**  
Location is existing. Only minimal earthwork will be required to P&A existing well. Any disturbed areas will be revegetated as per the attached WW-9.



**NOTE**  
REFER TO THE WVDEP  
EROSION AND SEDIMENT CONTROL  
FIELD MANUAL VER. MAY 2012 FOR  
BMPs CONTROLLING EROSION AND  
SEDIMENT FROM SOIL-DISTURBING  
OPERATIONS.

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OCT 16 2018

WV Department of  
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**Notes:**

- REQUESTED PERMIT IS FOR PLUGGING AN EXISTING WELL
- ALL ACCESS ROADS ARE EXISTING AND WILL BE UPGRADED IN ORDER TO ACCOMODATE WELL WORK EQUIPMENT AND THEN WILL BE RECLAIMED TO WVDEP STANDARDS.
- ALL DISTURBED AREAS WILL BE RE-VEGETATED AS OUTLINED ON FORM WW-9.
- LOCATION OF DRILL PIT MAY BE CHANGED BASED ON AS-BUILT CONSIDERATIONS.
- DRAWING NOT TO SCALE.

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

Operator Name: HG Energy, LLC  
Watershed (HUC 10): Hayzlett Fork Quad: Garrett's Bend 7.5'  
Farm Name: \_\_\_\_\_

1. List the procedures used for the treatment and discharge of fluids. Include a list of all operations that could contaminate the groundwater.

NA

2. Describe procedures and equipment used to protect groundwater quality from the list of potential contaminant sources above.

NA

3. List the closest water body, distance to closest water body, and distance from closest Well Head Protection Area to the discharge area.

NA

4. Summarize all activities at your facility that are already regulated for groundwater protection.

NA

5. Discuss any existing groundwater quality data for your facility or an adjacent property.

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SEP 18 2018  
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NA

6. Provide a statement that no waste material will be used for deicing or fill material on the property.

NA

7. Describe the groundwater protection instruction and training to be provided to the employees. Job procedures shall provide direction on how to prevent groundwater contamination.

NA

8. Provide provisions and frequency for inspections of all GPP elements and equipment.

NA

Signature: Diane White

Date: September 5, 2018

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SUBJECT WELL  
Hannah Paul No.3  
47-043-2322



No.3

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SEP 18 2018  
WV Department of  
Environmental Protection  
Section of  
Garrett's Bend 7.5' Quadrangle  
SCALE 1"=1000'

WW-7  
8-30-06



West Virginia Department of Environmental Protection  
Office of Oil & Gas  
**WELL LOCATION FORM: GPS**

API: 47- 043 - 2322 WELL NO: 3

FARM NAME: Hannah Paul No.3

RESPONSIBLE PARTY NAME: H.G. Energy, LLC

COUNTY: Lincoln DISTRICT: Duval

QUADRANGLE: Garrett's Bend 7.5'

SURFACE OWNER: David Stowers

ROYALTY OWNER: HG Energy, LLC

UTM GPS NORTHING: 4,239,695 (NAD 83)

UTM GPS EASTING: 421,557 (NAD 83) GPS ELEVATION: 256 m. (840')

The Responsible Party named above has chosen to submit GPS coordinates in lieu of preparing a new well location plat for a plugging permit or assigned API number 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	<input type="checkbox"/> Post Processed Differential	<input type="checkbox"/>
	<input type="checkbox"/> Real-Time Differential	<input type="checkbox"/>
Mapping Grade GPS	<input checked="" type="checkbox"/> Post Processed Differential	<input checked="" type="checkbox"/>
	<input type="checkbox"/> Real-Time Differential	<input type="checkbox"/>
4. **Letter size copy of the topography map showing the well location.**

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.

Diane White  
Diane C. White

\_\_\_\_\_  
Designated Agent  
Title

8/17/2018  
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