



---

west virginia department of environmental protection

---

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

Jim Justice , Governor  
Austin Caperton , Cabinet Secretary  
www.dep.wv.gov

Monday, January 23, 2017  
WELL WORK PERMIT  
Vertical / Plugging

HG ENERGY, LLC (A)  
5260 DUPONT ROAD

PARKERSBURG, WV 26101

Re: Permit approval for  
47-087-03046-00-00

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.

Please be advised that form WR-35, Well Operators Report of Well Work 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:  
Farm Name: EDGELL, A. W.  
U.S. WELL NUMBER: 47-087-03046-00-00  
Vertical / Plugging  
Date Issued: 1/23/2017

Promoting a healthy environment.

01/27/2017

## 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.

WW-4B  
Rev. 2/01

1) Date November 21, 2016  
2) Operator's  
Well No. AW Edgell 3  
3) API Well No. 47-087 - 3046

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  / Gas  / Liquid injection  / Waste disposal  /  
(If "Gas, Production  or Underground storage ) Deep  / Shallow
- 5) Location: Elevation 929' Watershed Edgell Fork  
District Smithfield County Roane Quadrangle Looneyville 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 Name Joe Taylor  
Address 1478 Claylick Road  
Ripley, WV 25271
- 9) Plugging Contractor Name To Be Determined Upon Approval of Permit  
Address \_\_\_\_\_

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

**\*\* See Attached Sheet \*\***

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

Work order approved by inspector



RECEIVED  
Office of Oil and Gas

DEC 12 2016

WV Department of  
Environmental Protection

01/27/2017

8703046P

WW-4B - Conti  
Rev. 2/01

1) Date: November 21, 2016  
2) Operator's Well Number AW Edgell 3  
3) API Well No: 47 - 087 - 3046  
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     Gas     Liquid Injection    Waste Disposal     
(If "Gas", Production     Underground Storage   ) Deep    Shallow      
5) LOCATION: Elevation: 929' Watershed: Edgell Fork  
District: Smithfield County: Roane Quadrangle Looneyville 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 Joe Taylor Name To Be Determined Upon Approval of Permit  
Address 1478 Claylick Road Address     
Ripley, WV 25271   

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

TD- 2,025'

Manners of plugging:

- Plug #1 - 1950' - 1850'  
Located above Big Injun, through Big Lime
- Plug # 2 - 1550' - 1400'  
Located at 5 1/2" casing stub
- Plug #3 - 950' - 850'  
Located at elevation (929')
- Plug #4 - 300' - 0'  
Located at surface

Anticipated Perforations (1 shot/10')

- 1500' - 1400' (above casing cut)
- 950' - 850' (elevation)
- 300' - 100' (surface plug)

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

RECEIVED  
Office of Oil and Gas  
DEC 12 2016  
WV Department of  
Environmental Protection

01/27/2017

Well: A.W. Edgell 3  
 API: 47-087-03046

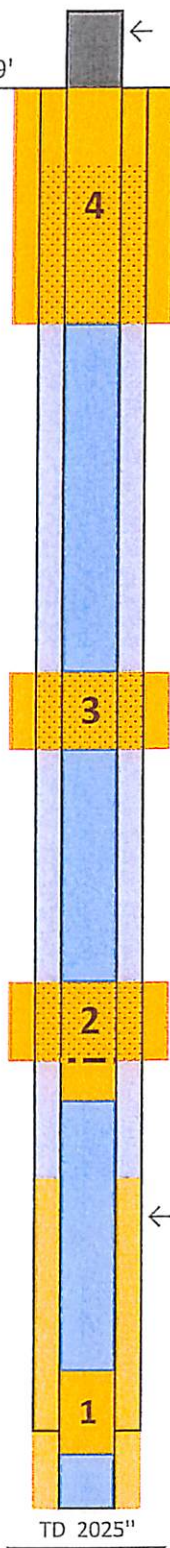
Monument min. 6" dia. metal pipe, 30" above surface, 10' in well below surface, sealed with cement, API id.

Elevation 929'

Casing Information		
Size	Depth	Weight
6 5/8"	1891'	#/ft.
5 1/2"	1979'	#/ft.

Freepoint Cut and Pull Casing	
Size	Approx. Depth
5 1/2"	1500'

Cement Plugs		
NO.	Bottom	Top
1	1950	1850
2	1550	1400
3	950	850
4	300	0



Part and pull 5 1/2" casing at free-point (approx. 1500').

Cemented on backside of 5 1/2" to approximately 1650'.

*[Handwritten signature]*  
 12-6-16

RECEIVED  
 Office of Oil and Gas  
 Note: 6% gel to be spotted between all plugs.

DEC 12 2016

WV Department of  
 Environmental Protection

Edgell, A W #3 47-087-03046 - Activity Report

**10/15/12 – WO Day 1 (5 hrs)**

MIRU KB service rig – POH w/80 rods & pump.

**10/16/12 – WO Day 2 (8 hrs)**

POH w/76 jts (2021') 2 3/8", 10 rd tubing – Found seating collar bad & bottom 1' of tubing full of mud – Change seating collar & anchor – RIH w/76 jts (2019') 2 3/8", 10 rd tubing – RIH w/bootom hole pump & 30 rods.

**10/17/12 – WO Day 3 (4 hrs)**

RIH w/50 rods – Pumped well up – RDMO – **Final Report**

**08/29/13 – WO Day 1 (5 hrs)**

MIRU KB Well Service rig #1 – Unable to screw onto rods – POH w/78 rods – Last rod broken – RIH w/fishing socket & 50 rods.

**08/30/13 – WO Day 2 (6 hrs)**

RIH w/remaining rods – Caught fish – POH w/broken rod & pump – RIH w/new bottom hole pump & rods – RDMO – **Final Report**

**09/09/14 – WO Day 1 (10 hrs)**

MIRU Cox service rig #6 – POH w/78 rods – RIH w/fishing socket – Unable to catch fish – POH w/9 jts of 2-3/8", 10rd tubing – Hit fluid.

**09/10/14 – WO Day 2 (11 hrs)**

Swabbed tubing off – POH w/remaining 67 jts (total 2022') of tubing & rods – RIH w/tubing, new bottom seat pump & rods – Pumped well w/rig – RDMO – **Final Report**

**08/09/19 – WO Day 1 (8hrs)**

MIRU Rogers & Sons Well Service Rig #2 – POH w/79 rods & pump – POH 8 jts of 2 3/8" 10 rd tubing.

**08/10/16 WO Day 2 (8 hrs)**

POH remaining tubing – (76 jts – 2019.90') – RIH w/bailer fluid level 1940' to 1950' – RIH w/bailer & 5 1/2" swab cups to 1800' & set for 20 min – POH w/ bailer – cups dry.

**08/11/16 – WO Day 3 (8 hrs)**

RIH w/bailer & 5 1/2" swab cups to 1800' – Set for 20 minutes – POH – No fluid & cups were dry – RIH w/bailer to 2015' – Recovered 3 gal. oil & 1 pt. of water – Fluid level 1940'-1945' – RIH w/75 jts tubing (2011.80') & new 12' bottom seat pump & rods.

**08-12-16 – WO Day 4 (3 hrs)**

Pumped well up – RDMO **Final**

- (OWFrac) Roane Co., W. Va., Clover Area - PZL - A. W. Edgell No. 3 (100%)  
10-1-69 2025' T.D. - Rigging up workover rig
- (OWFrac) Roane Co., W. Va., Clover Area - PZL - A.W. Edgell No. 3 (100%)  
10-2-69 2025' T.D. - Pulled 2" tubing
- (OWFrac) Roane Co., W. Va., Clover Area - PZL - A. W. Edgell No. 3 (100%)  
10-3-69 2025' T.D. - Pulled 5 1/2" csg. - left bottom part of packer in hole
- (OWFrac) Roane Co., W. Va., Clover Area - PZL - A. W. Edgell No. 3 (100%)  
10/4/69 2025' T.D. - Run brush bridge 1980-1930' - drilling out same  
10/5/69 2025' T.D. - Drilling out brush bridge  
10/6/69 2025' T.D. - Shut down
- (OWFrac) Roane Co., W. Va., Clover Area - PZL - A. W. Edgell No. 3 (100%)  
10-7-69 2025' T.D. - Finished drilling out brush bridge -- C.O. in shot hole
- (OWFrac) Roane Co., W. Va., Clover Area - PZL - A. W. Edgell No. 3 (100%)  
10-8-69 2025' T.D. - C.O. in shot hole
- (OWFrac) Roane Co., W. Va., Clover Area - PZL - A. W. Edgell No. 3 (100%)  
10-9-69 2025' T.D. - Run 64 jts. (1979.27) 5 1/2" O.D., 14#, K-55, 8rd. thd. Casing  
w/S.T.&C. w/Howco packer shoe set @1979' G.L. Cemented w/35 sks. 50/50  
Posmix - 10% salt -- Plug down @4:30 p.m. 10/8/69
- (OWFrac) Roane Co., W. Va., Clover Area - PZL - A. W. Edgell No. 3 (100%)  
10-10-69 2025' T.D. -- W.O.C.
- (OWFrac) Roane Co., W. Va., Clover Area - PZL - A. W. Edgell No. 3 (100%)  
10-14-69 2025' T.D. - Drilled plug and cement
- (OWFrac) Roane Co., W. Va., Clover Area - PZL - A. W. Edgell No. 3 (100%)  
10-15-69 2025' T.D. -- C.O. in shot hole
- (OWFrac) Roane Co., W. Va., Clover Area - PZL - A. W. Edgell No. 3 (100%)  
10-16-69 2025' T.D. -- C.O. in shot hole
- (OWFrac) Roane Co., W. Va., Clover Area - PZL - A. W. Edgell No. 3 (100%)  
10-17-69 2025' T.D. - C.O. in shot hole -- will frac today
- (OWFrac) Roane Co., W. Va., Clover Area - PZL - A. W. Edgell No. 3 (100%)  
10-18-69 2025' T.D. - Treated open hole 1979-2025' via 5 1/2" csg. w/1113 bbls. treated  
water, 55,000# 10/20 sand, 600# moth balls in 2 stages. Min. TP  
800#; Max. TP 2400#, ISIP 2000-1200#; 5 min. SIP 300#; 10 min. SIP  
on vacuum.  
10-19-69 2025' T.D. - C.O. frac sand -- 25' left  
10-20-69 2025' T.D. - Shut down
- (OWFrac) Roane Co., W. Va., Clover Area - PZL - A. W. Edgell No. 3 (100%)  
10-21-69 2029' T.D. -- C.O. frac sand -- 11' left
- (OWFrac) Roane Co., W. Va., Clover Area - PZL - A. W. Edgell No. 3 (100%)  
10-22-69 2029' T.D. -- C.O. frac sand
- (OWFrac) Roane Co., W. Va., Clover Area - PZL - A. W. Edgell No. 3 (100%)  
10-23-69 2029' T.D. -- C.O. frac sand
- (OWFrac) Roane Co., W. Va., Clover Area - PZL - A. W. Edgell No. 3 (100%)  
10-24-69 2029' T.D. -- C.O. Frac sand
- (OWFrac) Roane Co., W. Va., Clover Area - PZL - A. W. Edgell No. 3 (100%)  
10-25-26 2029' T.D. C.O. frac sand  
10-27-69 Shut down
- (OWFrac) Roane Co., W. Va., Clover Area - PZL - A. W. Edgell No. 3 (100%)  
10-28-69 2029' T.D. - C.O. frac sand
- (OWFrac) Roane Co., W. Va., Clover Area - PZL - A. W. Edgell No. 3 (100%)  
10-29-69 2029' T.D. - Run rods and pump - will drop from Drilling Report and pick up  
on Production Report.

REPORT OF FRACTURE TREATMENT

New Well \_\_\_\_\_ Old Well X Elevation \_\_\_\_\_

Farm: A. W. Edgell Well Number: 3 Pool: Clover

District: Smithfield County: Roane State: W. Va.

Producing Formation: Big Injun Depth: From 1982 to 2025

Date Completed: 1/5/11 Pays: Oil From 2004 to 2020

Original Total Depth: 2025 From \_\_\_\_\_ to \_\_\_\_\_

Present Total Depth: \_\_\_\_\_ Gas From 2004 to 2020

Production Initial Present After Fracture

Oil No Record 18 bbls./day \_\_\_\_\_

Gas No Record 20 MCF/day \_\_\_\_\_

Rock Pressure No Record No test \_\_\_\_\_

5 1/2" Casing set @ 979.29' Gr. K-55 Wt. 14# Cemented 35 sacks Co. Halliburton

Tubing size \_\_\_\_\_ Depth \_\_\_\_\_ Packer \_\_\_\_\_ Anchor \_\_\_\_\_

Frac String 5 1/2" Type Completion Open

Logged by: Basin Survey Date 10-7-69 Cost \$390.00

Logs Used: Gamma - Caliper

Interpretations:

Perforated by: \_\_\_\_\_ Date \_\_\_\_\_ Cost \_\_\_\_\_

Perforations:

Treatment Data

Fluid	Sand	Acid	Plugging Agent	Gel	Date Fractured	Fluid Loss	Non-Foamer	Emulsifier
<u>Water</u>	<u>10-20</u>		<u>Mothballs</u>	<u>J-111</u>	<u>10/17/69</u>			<u>PreFlo C</u>
Amount	<u>1113 bbls.</u>	<u>55,000#</u>	<u>600#</u>	<u>800#</u>				<u>40 gals.</u>

Breakdown Pressure: 1200 Treating Pressure: Max 2400 Min. 800

Sand Concentration: 1/2 to 2 1/2 Injection Rate 33

EQUIPMENT USED

Service Company Dowell Cost \_\_\_\_\_ Hydraulic Horsepower \_\_\_\_\_

Engineering Dept. By: D. Finch Date: 10/17/69

RECEIVED  
Office of Oil and Gas

DEC 12 2016

WV Department of  
Environmental Protection

01/27/2017



Well No. 3      *A. W. Edgell*      Farm.  
 Lease No. *Smithfield*      District *Roane*      County.  
 Rig built by *W. B. Newsome*  
 Well drilled by *S. P. N. Sae*      Contractor.  
 Began drilling *Nov 8* 1980      Completed *January 5* 1981.

ROCK FORMATION	TOP	BOTTOM	REMARKS
Conductor		11	ET = 95'
Munkard Sand	830	915	
Sand	960	1035	
Sand	1080	1120	
Sand	1250	1440	
Slate	1440	1450	
Lime	1450	1480	
Slate	1480	1520	
Salt Sand	1520	1877	
Water	1560		
do	1600		
Big Lime	1877	1982	
Water	1927		
Big Limestone	1982	2025	
Art. Sac	200	2020	
Total depth		2025	

CASING RECORD

Size	CHARGED TO WELL		PUT IN WELL		PULLED OUT		LEFT IN WELL		Transferred before Completion		Left at Well Not in Use	
	Feet	In.	Feet	In.	Feet	In.	Feet	In.	Feet	In.	Feet	In.
10			212		212				Shot 1/6/11		209	3/4"
8 1/4			835		835				Shot 1-15-11		60	1 1/2" 1/2"
6 5/8			1891									

Production } *40* Bbls.      Signed *J. A. Edgell*      Supt.

8703046P

WW-4A  
Revised 6-07

1) Date: November 21, 2016  
2) Operator's Well Number  
A W Edgell 3  
3) API Well No.: 47 - 087 - 3046

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

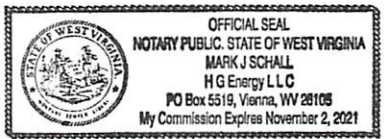
4) Surface Owner(s) to be served:	5) (a) Coal Operator
(a) Name <u>Judith Ziegler et al</u>	Name <u>NA</u>
Address <u>387 Edgell Fork</u>	Address _____
<u>Spencer, WV 25276</u>	_____
(b) Name _____	(b) Coal Owner(s) with Declaration
Address _____	Name <u>NA</u>
_____	Address _____
(c) Name _____	Name _____
Address _____	Address _____
_____	_____
6) Inspector <u>Joe Taylor</u>	(c) Coal Lessee with Declaration
Address <u>1478 Claylick Road</u>	Name <u>NA</u>
<u>Ripley, WV 25271</u>	Address _____
Telephone <u>304-380-7469</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 *Diane White*  
 Its: Agent  
 Address 5260 Dupont Road  
Parkersburg, WV 26101  
 Telephone 304-420-1119

Subscribed and sworn before me this 21st day of NOVEMBER 2016  
MARK J. SCHALL Notary Public  
 My Commission Expires Nov. 2, 2021

RECEIVED  
Office of Oil and Gas

**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).

DEC 12 2016  
WV Department of Environmental Protection

01/27/2017

WW-9  
(5/16)

API Number 47 - 087 - 3046  
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) Edgell Fork Quadrangle Looneyville 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: NA

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

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 Any fluids will be hauled for off site disposal at an authorized site to be determined at the time the well is plugged. Effluent will be contained in tanks prior to being hauled for off site disposal. \_\_\_\_\_)

Will closed loop system be used? If so, describe: NA

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. NA

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

-Landfill or offsite name/permit number? \_\_\_\_\_

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

RECEIVED  
Office of Oil and Gas

Subscribed and sworn before me this 21st day of NOVEMBER, 2016

MARK J. SCHALL  
MARK J. SCHALL

Notary Public  
WV Department of Environmental Protection

OFFICIAL SEAL  
NOTARY PUBLIC, STATE OF WEST VIRGINIA  
MARK J. SCHALL  
HG Energy LLC  
PO Box 5519, Vienna, WV 26105  
My Commission Expires November 2, 2021

My commission expires NOVEMBER 2, 2021

01/27/2017

Proposed Revegetation Treatment: Acres Disturbed .8 acres Prevegetation pH \_\_\_\_\_

Lime 3 Tons/acre or to correct to pH 6.5

Fertilizer type 10/20/20

8703046P

Fertilizer amount 500 lbs/acre

Mulch Straw 2 Tons/acre

Seed Mixtures

Temporary

Permanent

Seed Type	lbs/acre
Tall Fescue	40
Ladino Clover	5

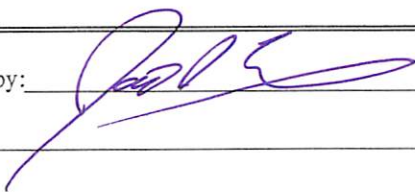
Seed Type	lbs/acre
Tall Fescue	40
Ladino Clover	5

**\*\* Sediment Control Will Be In Place 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: 

Comments: \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

RECEIVED  
Office of Oil and Gas

Title: 006 - Inspector

Date: 12-6-16

DEC 12 2016

Field Reviewed?  Yes  No

WV Department of  
Environmental Protection

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

Operator Name: HG Energy, LLC

Watershed (HUC 10): Edgell Fork Quad: Looneyville 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.

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

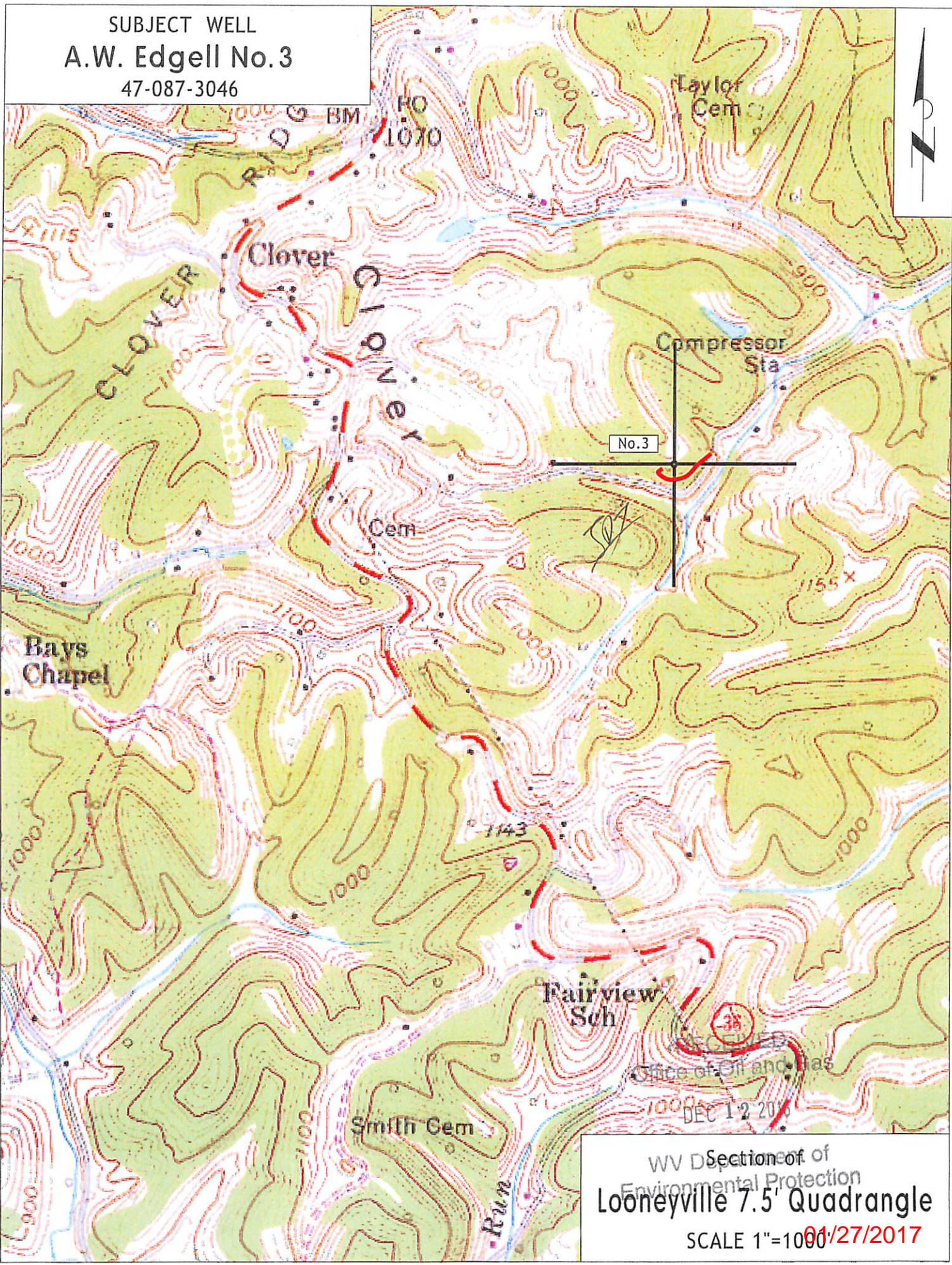
8. Provide provisions and frequency for inspections of all GPP elements and equipment.

NA

Signature: Diane White

Date: 11-21-14

SUBJECT WELL  
A.W. Edgell No.3  
47-087-3046



WV D Section of  
Environmental Protection  
Looneyville 7.5' Quadrangle  
SCALE 1"=1000' 01/27/2017

Office of Oil and Gas  
DEC 12 2016

WW-7  
5-02

West Virginia Department of Environmental Protection  
Office of Oil & Gas

**WELL LOCATION FORM: GPS**

API: 47- 087 - 3046 WELL NO: 3

FARM NAME: A.W. Edgell No.3

RESPONSIBLE PARTY NAME: H.G. Energy, LLC

COUNTY: Roane DISTRICT: Smithfield

QUADRANGLE: Looneyville 7.5'

SURFACE OWNER: Judith Ziegler et al.

ROYALTY OWNER: HG Energy, LLC

UTM GPS NORTHING: 4,285,611 (NAD 83)

UTM GPS EASTING: 475,952 (NAD 83) GPS ELEVATION: 302 m.

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	<input type="checkbox"/>	Post Processed Differential	<input type="checkbox"/>
		Real-Time Differential	<input type="checkbox"/>
Mapping Grade GPS	<input checked="" type="checkbox"/>	Post Processed Differential	<input checked="" type="checkbox"/>
		Real-Time Differential	<input type="checkbox"/>

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.

RECEIVED  
Office of Oil and Gas

Diane C White Diane C. White  
Signature

DEC 12 2016  
Designated Agent

November 18, 2016  
Date

Title  
WV Department of Environmental Protection