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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)

Tuesday, February 26, 2019  
WELL WORK PLUGGING PERMIT  
Vertical Plugging

TRIAD HUNTER, LLC  
125 PUTNAM ST

MARIETTA, OH 45750


Re: Permit approval for 4  
47-095-00576-00-00

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: 4  
 Farm Name: GORRELL, W. W.  
 U.S. WELL NUMBER: 47-095-00576-00-00  
 Vertical Plugging  
 Date Issued: 2/26/2019

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## 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.
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 \_\_\_\_\_, 2019  
2) Operator's  
Well No. GORRELL, W. W. 4  
3) API Well No. 47-095 - 00576

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 868 Watershed Hills Run  
District ELLSWORTH County TYLER Quadrangle Porters Falls

6) Well Operator TRIAD HUNTER, LLC 7) Designated Agent UNLIMITED ENERGY SERVICES LLC  
Address 125 PUTNAM STREET Address 264 INDUSTRIAL PARK ROAD  
MARIETTA, OHIO 45750 JANE LEW, WEST VIRGINIA 26378

8) Oil and Gas Inspector to be notified 9) Plugging Contractor  
Name CRAGIN BLEVINS Name UNLIMITED ENERGY SERVICES LLC  
Address 1407 19TH STREET Address 64 INDUSTRIAL PARK ROAD  
VIENNA, WEST VIRGINIA 26105 JANE LEW, WEST VIRGINIA 26378

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

OK

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

Work order approved by inspector \_\_\_\_\_ Date \_\_\_\_\_

## Unlimited Energy Services Plug to Abandon Procedure

- 1) Unlimited Energy Services service rig pulls Rods and tubing out of hole.
- 2) Run tubing to a minimum of 50 feet below producing pay zone, pump and set cement plug using class A cement to a minimum of 50 feet above the producing pay zone, pump a 6% gel ahead of the cement.(Cement plug will be a minimum of 100 feet).
- 3) Tag cement top to ensure plug meets minimum, add cement if necessary find free point on casing, cut and remove casing and pull out of the hole.
- 4) Run tubing to a minimum of 50 feet below cut casing. Pump and set cement plug using Class A Cement to a minimum of 50 feet above cut casing, pump a 6% gel ahead of the cement. Pull tubing (Cement plug will be a minimum of 100 feet elevation plug).
- 5) Tag cement top to ensure plug meets minimum, add cement if necessary.
- 6) Pull and set tubing to a minimum of 100 feet below surface, pump Class A cement to surface (minimum of 100 feet surface and fresh water strata plug)
- 7) Erect monument 3 foot by 6 foot with identification number and fill with cement.
- 8) Rig down all equipment. Reclaim location and lease road as necessary. And prepare release forms.

JCB  
2/21/2019



WW-4A  
Revised 6-07

1) Date: 2/5/2019  
2) Operator's Well Number  
GORRELL, W. W. 4

3) API Well No.: 47 - 095 - 00576

**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>John &amp; Leah Starkey</u>	Name <u>N/A</u>
Address <u>6606 Tyler Highway</u>	Address _____
<u>Sistersville, WV 26175</u>	_____
(b) Name _____	(b) Coal Owner(s) with Declaration
Address _____	Name <u>N/A</u>
_____	Address _____
(c) Name _____	Name _____
Address _____	Address _____
_____	_____
6) Inspector <u>CRAGIN BLEVINS</u>	(c) Coal Lessee with Declaration
Address <u>1407 19TH STREET</u>	Name <u>N/A</u>
<u>VIENNA, WEST VIRGINIA 26105</u>	Address _____
Telephone _____	_____

**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 TRIAD HUNTER, LLC  
 By: MIKE HORAN  
 Its: OPERATIONS MANAGER  
125 Putnam Street  
MARIETTA, OHIO 45750  
740-868-1324

Subscribed and sworn before me this 5th day of February 2019  
Pamela K. Nicholson Notary Public  
 My Commission Expires 8-9-2020

**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](mailto:depprivacyoffier@wv.gov).

WW-9  
(5/16)

API Number 47 - 095 - 00576  
Operator's Well No. \_\_\_\_\_

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

Operator Name TRIAD HUNTER, LLC OP Code 494494833

Watershed (HUC 10) Hills Run Quadrangle Porters Falls

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: \_\_\_\_\_

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 \_\_\_\_\_)

Will closed loop system be used? If so, describe: All flowback materials will be contained in an open top pit.

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

-If oil based, what type? Synthetic, petroleum, etc. N/A

Additives to be used in drilling medium? N/A

Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc. N/A

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

-Landfill or offsite name/permit number? Fluids will be disposed by contractor/operator at Mud Masters, LLC: See Attachments.

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 *Mike Horan*

Company Official (Typed Name) MIKE HORAN

Company Official Title OPERATIONS MANAGER

Subscribed and sworn before me this 14 day of February

*Adam S. Rowan*

My commission expires November 18, 2019



ADAM ROWAN  
Notary Public, State of Ohio  
My Commission Expires 11-18-2019



# Ohio Department of Natural Resources

JOHN R. KASICH, GOVERNOR

JAMES ZEHRINGER, DIRECTOR

47-095-00576P

03/01/2019

*Richard J. Simmers, Chief*  
Division of Oil and Gas Resources Management  
2045 Morse Road – Bldg. F-2  
Columbus, OH 43229-6693  
Phone: (614) 265-6922, Fax: (614) 265-6910

## ORDER BY THE CHIEF

**RECEIVED**  
**Office of Oil and Gas**

February 5, 2016

**FEB 14 2019**

**ORDER NO. 2016-29**

**WV Department of  
Environmental Protection**

**TO: Mud Masters  
739 Southgate Parkway  
Cambridge, OH 43725**

**RE: Mud Masters Lore City Treatment Facility  
Lore City, Ohio  
Guernsey County, Lore City Township**

**SUBJECT: Temporary Authorization to Store, Recycle, Treat, and Process Brine and  
Other Waste Substances Pursuant to R.C. 1509.22**

Pursuant to Ohio Revised Code Section 1509.22, the Chief of the Division of Oil and Gas Resources Management (“Chief” or “Division”) issues the following Order:

### BACKGROUND:

1. Mud Masters proposes to operate an oil and gas waste facility to be located at 64036-A Wintergreen Road, Lore City, Ohio in Guernsey County (“Lore City Facility”). The Lore City Facility is a treatment facility that proposes to treat brine or other waste substances associated with the exploration, development, well stimulation, production operations, or plugging of oil and gas resources for lawful disposal. The brine or other waste substances will be treated for the purpose of disposal in an adjacent Class II injection well or if the brine or other waste substances are not suitable for injection, will be stabilized for landfill disposal.
2. Division (B)(2)(a) of R.C. 1509.22 states, in pertinent part, that “\* \* \* no person shall store, recycle, treat, process, or dispose of in this state brine or other waste substances associated with the exploration, development, well stimulation, production operations, or plugging of oil and gas resources without an order or a permit issued under this section or section 1509.06 or 1509.21 of the Revised Code or rules adopted under any of those sections.”



- 3. On October 30, 2015, the Division received an application from Mud Masters requesting to temporarily store, treat, and process brine and other waste substances associated with the exploration, development, well stimulation, production operations, or plugging of oil and gas resources at the Lore City Facility. In its application, Mud Masters supplied the Division with information and details regarding its proposed operations. The Lore City Facility will accept liquid and semi-solid oilfield wastes for the purpose of treating them for disposal. Those waste materials suitable for disposal in a Class II underground injection well will be treated prior to pumping them to an adjacent injection well for disposal. The material not suitable for underground injection will be stabilized and tested prior to transportation to a landfill for lawful disposal.

**RECEIVED**  
**Office of Oil and Gas**

**FEB 14 2019**

**WV Department of**  
**Environmental Protection**

**ORDER:**

**IT IS HEREBY ORDERED:**

Mud Masters has temporary approval at the Lore City Facility to temporarily store, treat, and process brine or other oilfield waste substances associated with the exploration, development, well stimulation, production operations, or plugging of oil and gas resources, subject to the following conditions:

- 1. Mud Masters shall conduct all operations at the Lore City Facility in compliance with R.C. Chapter 1509 and Ohio Adm.Code 1501:9.
- 2. Brine shall not be disposed of in a manner not specified in R.C. 1509.22(C)(1)(a) through R.C. 1509.22(C)(1)(c). Disposal of brine pursuant to R.C. 1509.22(C)(1)(d) requires separate written approval by the Chief.
- 3. Mud Masters shall conduct all operations at the Lore City Facility in accordance with the application submitted to the Division for this facility. Mud Masters shall notify the Division prior to implementing any changes in operations at the Lore City Facility.
- 4. Mud Masters shall stabilize oilfield waste substances by adding quick-lime, Portland cement, or an alternate stabilization agent approved by the Chief, if the waste substance is to be disposed of in this state at a licensed solid waste landfill. If the waste substance is to be transported or disposed of out of state, Mud Masters shall comply with all applicable state and federal laws.
- 5. Mud Masters shall implement the Radiological Protection Plan ("RPP") submitted to the Division with the application for the Lore City Facility and shall continuously update the protocols and procedures in accordance with the plan.
- 6. Not later than one year after the date of this order, Mud Masters shall perform a radiation and contamination survey of the Lore City Facility, including the on-site vessels and equipment, to determine if there is a need to modify the procedures and protocols in the RPP

03/01/2019

Mud Masters  
Lore City Facility  
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Chief's Order No. 2016-29

WV Department of  
Environmental Protection

to ensure the protection of its employees, contractors, and the public health and safety as well as the environment. Any modifications of the RPP will be incorporated and made a part of this order and Mud Masters shall operate the Lore City Facility in accordance with the modified plan.

7. Mud Masters shall maintain waste and material management records for Lore City Facility and provide those records to the Division upon request. The records shall include, but not be limited to, manifests of all incoming oilfield waste substances and the final disposition of all the outgoing oilfield waste substances.
8. Mud Masters shall notify the Division at least 14 days before terminating operations at the Lore City Facility.
9. Mud Masters shall remediate any brine or other waste substances associated with the exploration, development, well stimulation, production operations, or plugging of oil and gas resources that is released in ground water or in or on the land or discharged in surface water as a result of the operations at the Lore City Facility.
10. This Chief's Order shall terminate upon any of the following, whichever occurs first:
  - a) The Division issues a permit to Mud Masters for the Lore City Facility pursuant to rules promulgated under to R.C. 1509.22(C);
  - b) The Division denies a permit to Mud Masters for the Lore City Facility pursuant to rules promulgated under R.C. 1509.22(C); or
  - c) Six months after the effective date of rules adopted under R.C. 1509.22(C);
  - d) The location of the Lore City Facility changes from 64036-A Wintergreen Road, Lore City, Ohio.
  - e) The ownership of the Lore City Facility changes from Mud Masters.

Date

2/5/2016

*Scott R. Hill for*  
*Richard J. Simmers*  
Richard J. Simmers, Chief  
Division of Oil and Gas Resources Management

Addressee is hereby notified that this action is final and effective and may be appealed pursuant to Section 1509.36 of the Ohio Revised Code. If the Order is appealed to the Ohio Oil and Gas Commission, the appeal must be in writing and must set forth the Orders complained of and the grounds upon which the appeal is based. Such appeal must be filed with the Oil and Gas

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Mud Masters  
Lore City Facility  
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Chief's Order No. 2016-29

Commission, 2045 Morse Road, Building H-3, Columbus, Ohio 43229-6693, within thirty (30) days after receipt of this Order.

In addition, within three (3) days after the appeal is filed with the Oil and Gas Commission, notice of the filing must be submitted to Richard J. Simmers, Chief, Division of Oil and Gas Resources Management, Ohio Department of Natural Resources, 2045 Morse Road, Building F, Columbus, Ohio 43229-6693.

CERTIFIED MAIL No: 91 7199 9991 7036 4067 2414

91 7199 9991 7036 4067 2414

cc: Legal Section  
Steve Opritza, Permitting Manager  
Engineering Section  
Brent Bear, Region Supervisor  
Douglas Bennett, Guernsey County Oil and Gas Inspector

Operator's Well No. \_\_\_\_\_

Proposed Revegetation Treatment: Acres Disturbed ONE Prevegetation pH 5.5

Lime TWO Tons/acre or to correct to pH 6.5

Fertilizer type 10-20-20

Fertilizer amount 500 lbs/acre

Mulch 50 BALES 2.5 Tons/acre

Seed Mixtures

Temporary		Permanent	
Seed Type	lbs/acre	Seed Type	lbs/acre
		Orchard Grass	30%
		Rye(annual @BT)	35%
		Timothy (Climax)	25%
		Clover (Med.Red)	10%

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: \_\_\_\_\_

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

Title: \_\_\_\_\_

Date: \_\_\_\_\_

Field Reviewed? ( ) Yes ( ) No

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N/A

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

Operator Name: TRIAD HUNTER, LLC  
Watershed (HUC 10): Hills Run Quad: Porters Falls  
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.

Plug to abandon operations.

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

Containment will be in place around the well. And a portable pit will be used for fluids.

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

N/A

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

N/A

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

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Environmental Protection

N/A

N/A

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

No waste materials will be used for the deicing of area or equipment. And waste materials if any will not be used for material fill on the property.

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.

Spill protection training given to every employee. Spill kits and containment are on each work site.

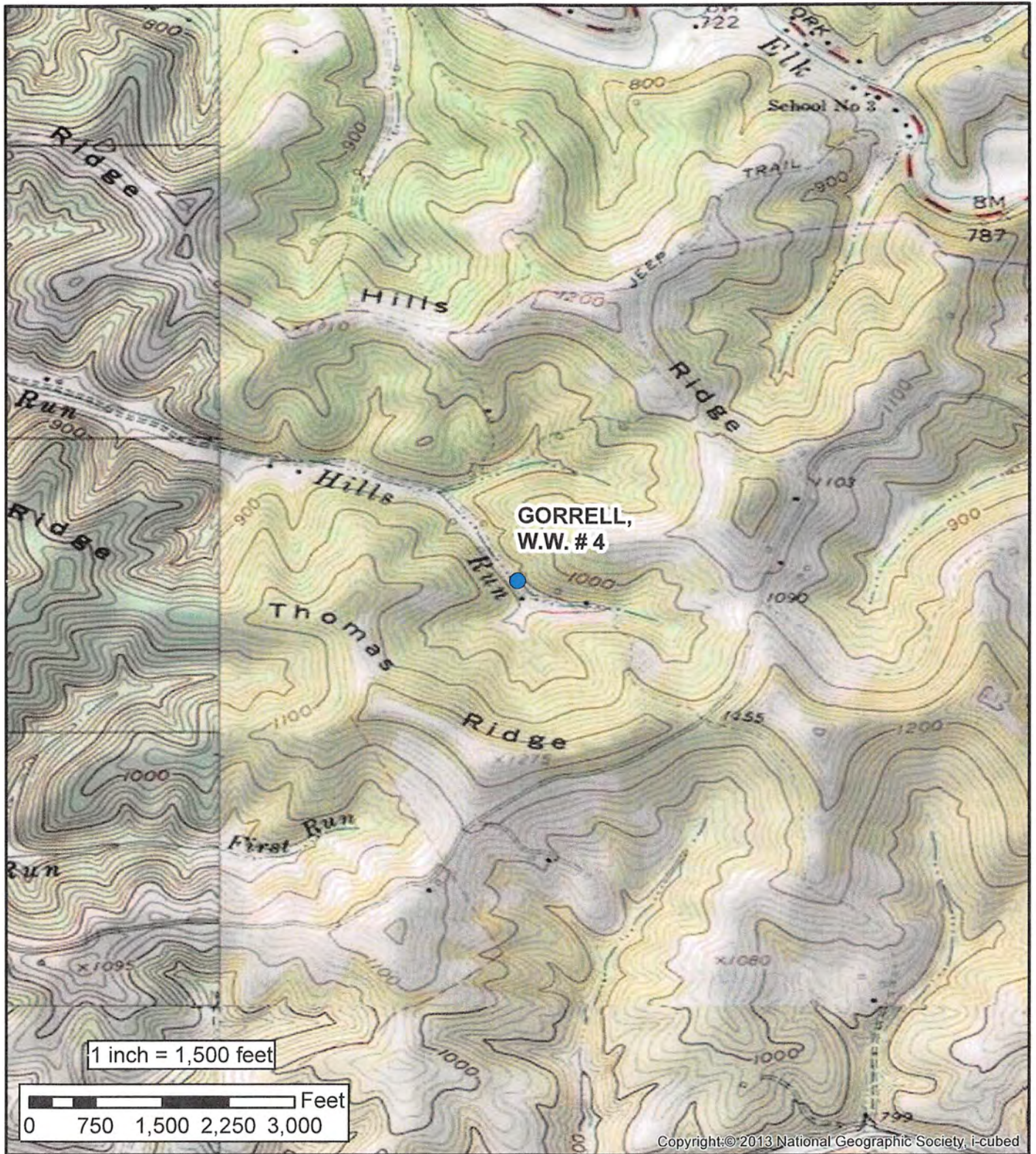
8. Provide provisions and frequency for inspections of all GPP elements and equipment.

Inspections are done before during operations by designated employees.

Signature: \_\_\_\_\_

Date: \_\_\_\_\_

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WV Department of  
Environmental Protection



## Well Name: Gorrell. W.W. #4

Triad Hunter, LLC  
A subsidiary of Blue Ridge Mountain Resources, Inc.

Tyler County - Ellsworth District - West Virginia

WW-7  
8-30-06



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

API: 47-095-00576 WELL NO.: 4

FARM NAME: GORRELL, W. W.

RESPONSIBLE PARTY NAME: TRIAD HUNTER, LLC

COUNTY: TYLER DISTRICT: ELLSWORTH

QUADRANGLE: Porters Falls

SURFACE OWNER: John & Leah Starkey

ROYALTY OWNER: Unknown

UTM GPS NORTHING: 4373724.7627

UTM GPS EASTING: 511556.8538 GPS ELEVATION: 868'

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 and 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

Mapping Grade GPS \_\_\_\_\_ : Post Processed Differential \_\_\_\_\_  
Real-Time Differential \_\_\_\_\_

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.

Signature *M. J. ...*

OPERATIONS MANAGER  
Title

2/5/19  
Date

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