



 west virginia department of environmental protection

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

Austin Caperton, Cabinet Secretary
www.dep.wv.gov

Wednesday, April 17, 2019
 WELL WORK PLUGGING PERMIT
 Vertical Plugging

TRIAD HUNTER, LLC
 125 PUTNAM ST

MARIETTA, OH 45750

Re: Permit approval for JAMES EDDY 5
 47-095-00557-00-00

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: JAMES EDDY 5
 Farm Name: DANIEL R DEETZ
 U.S. WELL NUMBER: 47-095-00557-00-00
 Vertical Plugging
 Date Issued: 4/17/2019

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.

1) Date 4-8, 20 19
2) Operator's Well No. James Eddy 5
3) API Well No. 47-095-00557

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 X / Liquid injection ___ / Waste disposal ___ /
(If "Gas, Production ___ or Underground storage ___) Deep ___ / Shallow X

5) Location: Elevation 868 Watershed Elk Fork
District Ellsworth County Taylor Quadrangle Porter Falls

6) Well Operator Triad Hunter LLC 7) Designated Agent Unlimited Energy Services
Address 125 Putnam Street Address 264 Industrial Park Rd
Marietta OH 45750 Gene Lew WV 26378

8) Oil and Gas Inspector to be notified 9) Plugging Contractor
Name Craig Blewins Name Unlimited Energy Services
Address 1407 19th Street Address 264 Industrial Park Rd
Vienna WV 26105 Gene Lew WV 26378

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

- 1) Pull Rods + Tubing find TD
 - 2) TTH with Tubing, Pump 6% Gel ahead of cement
 - 3) Set Bottom hole plug from 1805' to 1705'
 - 4) Tag Cement, if necessary add cement
 - 5) Find Free Point, cut and Remove casing
 - 6) Run tubing 50' below cut casing, Pump 6% gel ahead pump 100' cement plug across cut.
 - 7) Tag Cement
 - 8) Pull + Set Tubing minimum 100' below surface, pump cement surface plug
- SET 100' PLUG ACROSS ELEVATION FROM 870' - 770'

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All plugs will be class 9 cement for additional info 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 Craig Blewins Date 4/11/2019

04/19/2019

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.

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JCB
2/21/2019

LEASE NO. 722 ACRES 83 FARM NAME James Tddy

H. No. 1917
04/19/2019
WELL NO. 2

N. 6 S. E. W. 1/4 Location Made Purchased From H.C.&E.
Civil District Ellsworth Rig Completed Date Purchased 3-1-43
County Tyler Dr'g Commenced 11-16-97 Sold To
State W. Va. Dr'g Completed 12-9-97 Date Sold
GAS Rights Owned By Dr'g Contractor Date Abandoned

FORMATION

CASING RECORD

Kind	Top	Bottom	Steel Line Meas.	Tests
Oil	1783			
Gas	1771			

Size	Bottom Casing Steel Line	Put in Well Tally Meas.	Pulled Tally Meas.	Cemented
10"		73	73	Date
8 1/2"		990	990	Size Casg.
6-5/8"		1726		Top "
2" Tbg.		1795		Bot. "

Total Depth 1805

PACKERS AND SHOES

Kind	Size	Depth Set	Date Set
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TORPEDO RECORD

Date	No. Qts.	Size Shell	Top Shot	Bottom	Results
12-16-97	5	5' Shell			
12-20-97	10	8' "			
12-23-97	15	10' "			
1-7-98	20	10' "			
1-22-98	30	10' "			
3-1-98	30				
7-22-98	60	2-10' Shell	1769	1789	6' Anc.

Well sealed out from Feb 17, 1945 to 1945 Measured AFTER CO. 1306

DRILLING DEEPER

Commenced	Completed	Original Depth	Final Depth	Contractor
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ABANDONMENT RECORD

Filled With	From	To	PLUG		
			Size	Kind	Depth

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Initial Prod. Sand * At Completion * 30 Days After *

Oil Keener
Gas

APPROVED

Su

* Oil in Barrels

WW-4A
Revised 6-07

1) Date: 2/5/2019
2) Operator's Well Number
(EDDY, JAMES 5)
3) API Well No.: 47 - 095 - 00557

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>Daniel R Deetz</u>	Name <u>N/A</u>
Address <u>7614 Rocky Ridge Road</u> <u>Stone Creek Ohio 43840</u>	Address _____
(b) Name _____	(b) Coal Owner(s) with Declaration
Address _____	Name <u>N/A</u>
(c) Name _____	Address _____
Address _____	Name _____
Address _____	Address _____
6) Inspector <u>GRAGIN 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 _____	Address _____

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 *Mike Horan*
 Its: Operations Manager
 Address 125 Putnam Street
MARIETTA, OHIO 45750
 Telephone 740-868-1324

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

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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 depprivacvoffier@wv.gov.

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 (HUIC 10) Elk Fork 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

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

Operator Name: Triad Hunter, LLC
Watershed (HUC 10): Elk Fork 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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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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WW-7
8-30-06



West Virginia Department of Environmental Protection
Office of Oil and Gas

WELL LOCATION FORM: GPS

API: 47-095-00557 WELL NO.: 5

FARM NAME: GRAY, E. R. (EDDY, JAMES)

RESPONSIBLE PARTY NAME: Triad Hunter, LLC

COUNTY: TYLER DISTRICT: ELLSWORTH

QUADRANGLE: Porters Falls

SURFACE OWNER: DANIEL R DEETZ

ROYALTY OWNER: Unknown

UTM GPS NORTHING: 4374908.4000

UTM GPS EASTING: 511328.8000 GPS ELEVATION: 1271

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 *Mike Jones*

Operations Manager
Title

2/5/19
Date

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