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**west virginia** department of environmental protection

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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

January 06, 2014

**WELL WORK PLUGGING PERMIT**

**Plugging**

This permit, API Well Number: 47-9500634, issued to TRIAD HUNTER, 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 penalties 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.

James Martin  
Chief

Operator's Well No: JAMES W. (BREN.) WOOD #5  
Farm Name: CHARITY GAS CO.

**API Well Number: 47-9500634**

**Permit Type: Plugging**

Date Issued: 01/06/2014

**Promoting a healthy environment.**

**01/10/2014**

# 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.



PLUGGING PROCEEDURE

ELK FORK FIELD

Ellsworth District, Tyler County

9500634P

★ 2a.

1. MIRU service rig, dig flow back pit, and remove pumping unit if necessary.
2. Pull tubing and rods OOH and clean hole to total depth.
3. Run 2 3/8" 8rnd tubing to the base of the shot hole or pay zone.
4. **Mix/Pump 75 sacks Class A Cement, ¼ lb. flocele/sk., 1% CaCl<sub>2</sub>**, through the tubing into the shot hole ( **Plug # 1 – 88.5 cu.ft.**  ).
5. Pull tubing up to 1,000 feet and shut down for the day.
6. Lower tubing and tag the top of the cement plug. Mix additional cement to cover the shot hole if necessary.
7. Pull casing ( ~~5-3/16"~~, 6 ¼", ~~6-5/8"~~ ) OOH, or cut-off / shoot apart casing around 500 feet above the Keener Formation or pay zone and pull it OOH.
8. RIH with 2 3/8" 8rnd tubing to the top of the cut-off casing or 500 feet above the Keener Fm./pay-zone.
9. **Mix/Pump 60 sacks Class A Cement, ¼ lb. flocele/sk., 1% CaCl<sub>2</sub>** through the tubing into the annulus ( **Plug # 2 – 68 cu.ft., 200' lin. ft.**  ).
10. Pull tubing up-hole to set surface hole plug as follows: ( Assume Hole Size = 10" )
 

| ( Elevation )         | ( Plug Depth ) | ( Cement Required ) | ( Cubic Feet ) |
|-----------------------|----------------|---------------------|----------------|
| Below 800 feet        | 100'           | 50 sacks            | 54.5           |
| ★ <u>800' to 900'</u> | <u>150'</u>    | 70 sacks            | 82.0           |
| 900' to 1,000'        | 200'           | 95 sacks            | 109.0          |
| Over 1,000 feet       | 250'           | 116 sacks           | 136.5          |
11. **Mix/Pump ( Plug # 3 ) the surface hole plug with Class A Cement, ¼ lb. flocele/sk., 1% CaCl<sub>2</sub>**, through the tubing until cement is circulated to surface. Pull tubing OOH.
12. **Top load hole with Class A Cement** and install monument casing so that it is 3' above ground level.
13. Weld identification plate on monument pipe and fill monument pipe with Class A Cement.
14. RDMO service rig and surface equipment.
15. Reclaim well site and lease road.

Note! Mix / Pump gel spacers between all cement plugs.

*[Handwritten signature]*  
10-2-13

★ 2a. RELEASE PACKER & PULL 4 7/8" OR SHOOT 4 7/8" ABOVE PACKER AND PULL 4 7/8" OUT OF HOLE.

ELEVATION PLUG SET 100' OF CLASS A CEMENT WITH NO MORE THAN 3% CaCl<sub>2</sub> AND NO OTHER ADDITIVES FROM 890' - 790'.

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*[Handwritten initials]*

(Well Information)

ELK FORK FIELD

Permit Number: 47-095-0634 Well Name: JAMES W. (Bren) Wood #5  
 District: Ellsworth County: Tyler  
 Date Drilled: December / 1912 Total Depth: 1755' Elevation: ~~74~~ 840'  
 Producing Zone: Keener Shot Hole Depth: "Not Shot"  
 Casing Depths: 10" \_\_\_\_\_ 8 1/4" \_\_\_\_\_ Tubing Depth: 2" 1740'  
                   6 5/8" \_\_\_\_\_ 6 1/4" 1650'  
                   5 3/16" \_\_\_\_\_ 4 7/8" 1684'

Remarks: 4 7/8" set on H.W. Packer  
Gas @ 1717', Oil @ 1743'  
(-877) (Not Shot)

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950063A



Select County: (095) Tyler    Select datatypes:  (Check All)

Enter Permit #: 0634

Location     Production     Plugging

Owner/Completion     Stratigraphy     Sample

Pay/ShowWater     Logs     Btm Hole Loc

- [Table Descriptions](#)
- [County Code Translations](#)
- [Permit Numbering Series](#)
- [Usage Notes](#)
- [Contact Information](#)
- [Disclaimer](#)
- [WVGES Main](#)
- ["Pipeline Plus" News](#)

WV Geological & Economic Survey:

Well: County = 95 Permit = 0634

Report Time: Thursday, February 14, 2013 4:37:15 PM

Location Information: [View Map](#)

| API        | COUNTY | PERMIT | TAX_DISTRICT | QUAD_75 | QUAD_15 | LAT_DD | LON_DD | UTME | UTMN |
|------------|--------|--------|--------------|---------|---------|--------|--------|------|------|
| 4709500634 | Tyler  | 634    | unknown      | unknown | unknown |        |        |      |      |

There is no Bottom Hole Location data for this well

Owner Information:

| API        | CMP_DT | SUFFIX | STATUS       | SURFACE_OWNER | WELL_NUM     | CO_NUM | LEASE | LEASE_NUM | MINERAL_OWN | OPERATOR         | PROP_VD | PROP_TRGT_FM |
|------------|--------|--------|--------------|---------------|--------------|--------|-------|-----------|-------------|------------------|---------|--------------|
| 4709500634 | -/-    |        | Original Loc | Completed     | James Wood 5 |        |       |           |             | Pennzoil Company |         |              |

Completion Information:

| API        | CMP_DT | SPUD_DT | ELEV | DATUM | FIELD   | DEEPEST_FM | DEEPEST_FMT | INITIAL_CLASS | FINAL_CLASS  | TYPE          | RIG     | CMP_MTHD | TVD | TMD | NEW_FTG | G_BEF | G_AFT | O_BEF | O_AFT | P |
|------------|--------|---------|------|-------|---------|------------|-------------|---------------|--------------|---------------|---------|----------|-----|-----|---------|-------|-------|-------|-------|---|
| 4709500634 | -/-    | -/-     |      |       | Unnamed |            |             | unclassified  | unclassified | not available | unknown | unknown  |     |     |         | 0     | 0     | 0     | 0     | 0 |

There is no Pay data for this well

Production Gas Information:

| API        | OPERATOR              | PRD_YEAR | ANN_GAS | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DCM |
|------------|-----------------------|----------|---------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 4709500634 | Pennzoil Company      | 1981     | 0       | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 4709500634 | Pennzoil Company      | 1982     | 0       | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 4709500634 | Pennzoil Company      | 1983     | 0       | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 4709500634 | Triad Resources, Inc. | 2001     | 4       | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 4   | 0   | 0   | 0   | 0   |
| 4709500634 | Triad Resources, Inc. | 2003     | 0       | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 4709500634 | Triad Resources, Inc. | 2004     | 0       | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |

Production Oil Information:

| API        | OPERATOR              | PRD_YEAR | ANN_OIL | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DCM |
|------------|-----------------------|----------|---------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 4709500634 | Pennzoil Company      | 1981     | 33      | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 4709500634 | Pennzoil Company      | 1982     | 16      | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 4709500634 | Pennzoil Company      | 1983     | 4       | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 4709500634 | Triad Resources, Inc. | 2001     | 0       | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 4709500634 | Triad Resources, Inc. | 2003     | 0       | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 4709500634 | Triad Resources, Inc. | 2004     | 0       | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |

There is no Stratigraphy data for this well

There is no Wireline (E-Log) data for this well

There is no Plugging data for this well

There is no Sample data for this well

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2/14/2013





9506634P

7006 0100 0003 5664 1423

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 Street, Apt. No.,  
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 City, State, ZIP+4 Salem, W 21421

PS Form 3800, June 2002 See Reverse for Instructions

01/10/2014

**SURFACE OWNER WAIVER**

Operator's Well  
Number

James W. ( Bren.) Wood # 5

**INSTRUCTIONS TO SURFACE OWNERS NAMED ON PAGE WW4-A**

The well operator named on page WW-4A is applying for a permit from the State to plug and abandon a well. (Note: If the surface tract is owned by more than three persons, then these materials were served on you because your name appeared on the Sheriff's tax ticket on the land or because you actually occupy the surface tract. In either case, you may be the only owner who will actually receive these materials.) See Chapter 22 of the West Virginia Code. Well work permits are valid for 24 months. If you do not own any interest in the surface tract, please forward these materials to the true owner immediately if you know who it is. Also, please notify the well operator and the Office of Oil and Gas.

**NOTE: YOU ARE NOT REQUIRED TO FILE ANY COMMENT.  
WHERE TO FILE COMMENTS AND OBTAIN ADDITIONAL INFORMATION:**

Chief, Office of Oil and Gas  
Department of Environmental Protection  
601 57<sup>th</sup> St. SE  
Charleston, WV 25304  
(304) 926-0450

**Time Limits and methods for filing comments.** The law requires these materials to be served on or before the date the operator files his Application. You have **FIVE (5) DAYS** after the filing date to file your comments. Comments must be filed in person or received in the mail by the Chief's office by the time stated above. You may call the Chief's office to be sure of the date. Check with your postmaster to ensure adequate delivery time or to arrange special expedited handling. If you have been contacted by the well operator and you have signed a "voluntary statement of no objection" to the planned work described in these materials, then the permit may be issued at any time.

**Comments must be in writing.** Your comments must include your name, address and telephone number, the well operator's name and well number and the approximate location of the proposed well site including district and county from the application. You may add other documents, such as sketches, maps or photographs to support your comments.

The Chief has the power to deny or condition a well work permit based on comments on the following grounds:

- 1) The proposed well work will constitute a hazard to the safety of persons.
- 2) The soil erosion and sediment control plan is not adequate or effective;
- 3) Damage would occur to publicly owned lands or resources;
- 4) The proposed well work fails to protect fresh water sources or supplies;
- 5) The applicant has committed a substantial violation of a previous permit or a substantial violation of one or more of the rules promulgated under Chapter 22, and has failed to abate or seek review of the violation...".

**If you want a copy of the permit as it is issued or a copy of the order denying the permit, you should request a copy from the Chief.**

**VOLUNTARY STATEMENT OF NO OBJECTION**

I hereby state that I have read the instructions to surface owners and that I have received copies of a Notice and Application For A Permit To Plug And Abandon on Forms WW-4A and WW-4B, and a survey plat.

I further state that I have no objection to the planned work described in these materials, and I have no objection to a permit being issued on those materials.

FOR EXECUTION BY A NATURAL PERSON  
ETC.

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FOR EXECUTION BY A CORPORATION,

\_\_\_\_\_  
Signature

\_\_\_\_\_  
Date

Name CHARITY GAS  
By Samuel I. Bell  
Its President  
Date 01/10/2014

**X** Signature \_\_\_\_\_ Date \_\_\_\_\_

WV Department of Environmental Protection  
Date **01/10/2014**

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

CONSTRUCTION AND RECLAMATION PLAN AND SITE REGISTRATION APPLICATION FORM  
GENERAL PERMIT FOR OIL AND GAS PIT WASTE DISCHARGE

Operator Name Triad Hunter LLC OP Code \_\_\_\_\_

Watershed Elk Fork Quadrangle Porters Falls

Elevation 840' ( GPS 839' ) County Tyler District Ellsworth

Description of anticipated Pit Waste: saltwater, oil, gel, and freshwater

Will a synthetic liner be used in the pit? yes 20 mil.

Proposed Disposal Method For Treated Pit Wastes:

- Land Application
- Underground Injection ( UIC Permit Number UIC # 2D0855151 )
- Reuse (at API Number \_\_\_\_\_ )
- Off Site Disposal (Supply form WW-9 for disposal location)
- Other (Explain \_\_\_\_\_)

Proposed Work For Which Pit Will Be Used:

- Drilling
- Workover
- Other (Explain \_\_\_\_\_)
- Swabbing
- Plugging

I certify that I understand and agree to the terms and conditions of the GENERAL WATER POLLUTION PERMIT issued on August 1, 2005, 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 [Signature]

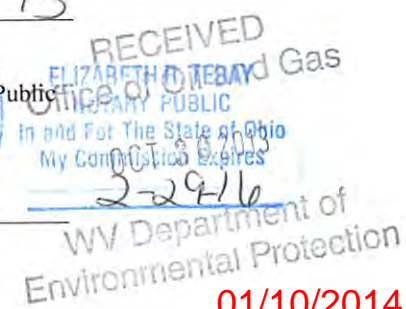
Company Official (Typed Name) Rocky Roberts

Company Official Title Senior VP Appalachian Operations

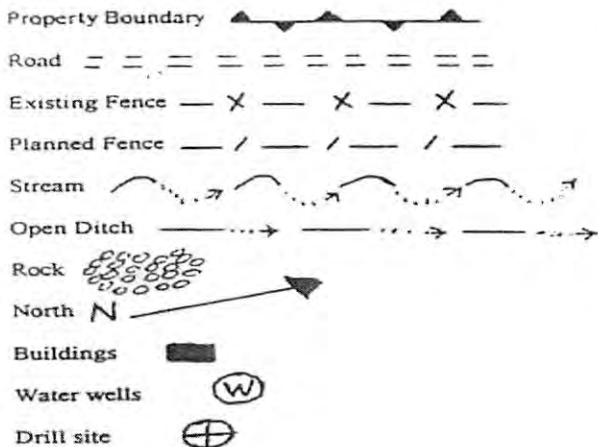
Subscribed and sworn before me this 24th day of September, 2013

[Signature]

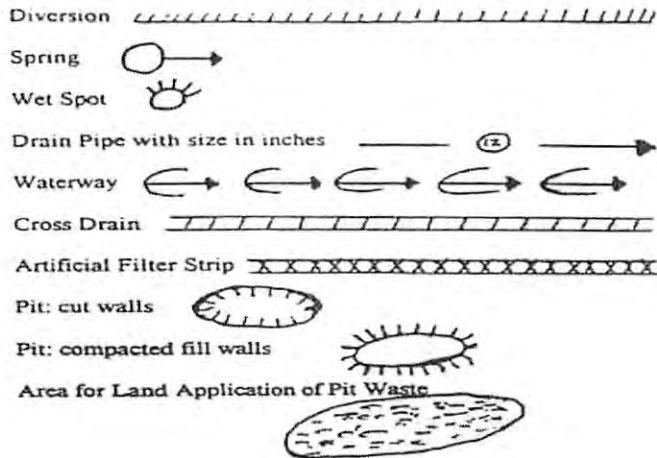
My commission expires 2-29-16



01/10/2014



LEGEND




Proposed Revegetation Treatment: Acres Disturbed One +/- Prevegetation pH 5.5  
 Lime Two (2) Tons/acre or to correct to pH 6.5  
 Fertilizer (10-20-20 or equivalent) 600 lbs/acre (500 lbs minimum)  
 Mulch 90 - 100 bales / acre Tons/acre

Seed Mixtures

| Area I                |          | Area II               |          |
|-----------------------|----------|-----------------------|----------|
| Seed Type             | lbs/acre | Seed Type             | lbs/acre |
| Orchard Grass         | 30%      | Orchard Grass         | 30%      |
| Rye ( Annual & BT )   | 35%      | Rye ( Annual & BT )   | 35%      |
| Timothy ( Climax )    | 25%      | Timothy ( Climax )    | 25%      |
| Clover ( Medium Red ) | 10%      | Clover ( Medium Red ) | 10%      |

Attach: Drawing(s) of road, location, pit and proposed area for land application.

Photocopied section of involved 7.5' topographic sheet.

Plan Approved by: 

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

Title: Inspector Date: 10-2-13

Field Reviewed? (  ) Yes (  ) No

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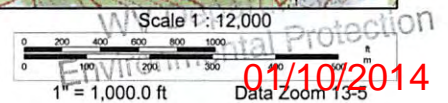
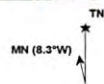
WV Department of  
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01/10/2014

WW-7  
8-30-06



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

API: 47-095-0634 WELL NO.: 5

FARM NAME: James ( Bren. ) Wood

RESPONSIBLE PARTY NAME: Triad Hunter, LLC

COUNTY: Tyler DISTRICT: Ellsworth

QUADRANGLE: Porters Falls

SURFACE OWNER: Charity Gas Co.

ROYALTY OWNER: Richard J. Ferrell and Blanche I. Ferrell et al

UTM GPS NORTHING: 4376119.3717928

UTM GPS EASTING: 512042.25696350 GPS ELEVATION: 839'

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.

Ben Metzger  
Signature

Geologist  
Title

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4/15/2013  
Date

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01/10/2014