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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

June 11, 2015

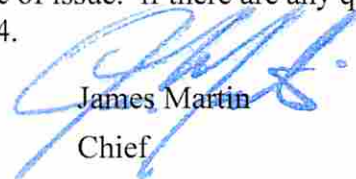
**WELL WORK PLUGGING PERMIT**

**Plugging**

This permit, API Well Number: 47-8702087, 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: O. D. STOCKLEY 172

Farm Name: STOCKLEY, O. D.

**API Well Number: 47-8702087**

**Permit Type: Plugging**

Date Issued: 06/11/2015

**Promoting a healthy environment.**

**06/12/2015**

## 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-4A  
Revised 6-07

1) Date: 1/20/2015  
2) Operator's Well Number  
O.D. Stockley # 172

3) API Well No.: 47 - 087 - 2087 **P**

**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>Triad Hunter, LLC</u> | Name <u>N/A</u>                    |
| Address <u>125 Putnam Street</u>  | Address _____                      |
| <u>Marietta, Ohio 45750</u>       | _____                              |
| (b) Name _____                    | (b) Coal Owner(s) with Declaration |
| Address _____                     | Name <u>N/A</u>                    |
| _____                             | Address _____                      |
| _____                             | _____                              |
| (c) Name _____                    | Name _____                         |
| Address _____                     | Address _____                      |
| _____                             | _____                              |
| 6) Inspector <u>Ed Gainer</u>     | (c) Coal Lessee with Declaration   |
| Address <u>P.O. Box 821</u>       | Name <u>N/A</u>                    |
| <u>Spencer, WV 25276</u>          | Address _____                      |
| Telephone <u>(304) 389-7582</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 Triad Hunter, LLC  
 By: Rocky Roberts  
 Its: Senior V.P. Appalachian Operations  
 Address 125 Putnam Street  
Marietta, Ohio 45750  
 Telephone (740) 374-2940

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 Office of Oil and Gas  
 MAR 16 2015

Subscribed and sworn before me this 22<sup>nd</sup> day of January, 2015  
Elizabeth R. Tegay  
 My Commission Expires 2-29-16  
 Notary Public

WV Department of Environmental Protection  
 ELIZABETH R. TEGAY  
 NOTARY PUBLIC  
 In and For The State of Ohio  
 My Commission Expires  
2-29-16

**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).

1) Date January 20, 2015  
2) Operator's  
Well No. O.D. Stockley # 172  
3) API Well No. 47-087 - 2087

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

5) Location: Elevation 937' GL Watershed Granny's Creek  
District Geary County Roane Quadrangle Newton

6) Well Operator Triad Hunter, LLC 7) Designated Agent Kim Arnold  
Address 125 Putnam Street Address P.O. Box 154  
Marietta, Ohio 45750 Waverly, WV 26184

8) Oil and Gas Inspector to be notified 9) Plugging Contractor  
Name Ed Gainer Name N/A  
Address P.O. Box 821 Address \_\_\_\_\_  
Spencer, WV 25276

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

- 150' - 200' Bottom hole plug in 4 1/2" casing. *Across perfor*
- 100' - Cut plug (4.5" csg.) Estimated cement top @ 1414'.
- 100' - Elevation plug @ 950'.
- 100' - Surface casing plug @ 250'.
- 150' - Surface plug in 8 5/8" casing.

- Note! 1. All cement plugs - Class A cement.
- 2. Gel spacers between all cement plugs.
- 3. No coal seams reported.

*ERECT MONUMENT W/API # AFFIXED.* *GCS*  
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Office of Oil and Gas

Notification must be given to the district oil and gas inspector 24 hours before permitted work can commence. *MAR 16 2015*

Work order approved by inspector

WV Department of  
Environmental Protection  
Date 3/11/15



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4708702087

STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES & GAS DIVISION  
DEPT. OF MINES  
Oil and Gas Division

WELL RECORD

Rotary  Oil \_\_\_\_\_  
Cable \_\_\_\_\_ Gas \_\_\_\_\_  
Recycling \_\_\_\_\_ Comb. \_\_\_\_\_  
Water Flood  Storage \_\_\_\_\_  
Disposal \_\_\_\_\_ (Kind) \_\_\_\_\_

Quadrangle Newton 7.5'

Permit No. Roa-2087

087

|   |             |             |              |                 |
|---|-------------|-------------|--------------|-----------------|
| Company <u>Pennzoil Company</u>                         | Casing Size | Left in     | Left in Well | Cement fill up  |
| Address <u>P. O. Box 1588, Parkersburg, WV 26101</u>    | Tubing      | Logging     |              | Cu. ft. (Sks.)  |
| Farm <u>O. P. Stockly</u> Acres <u>4000</u>             |             |             |              |                 |
| Location (waters) <u>Granny's Creek</u>                 | Size        |             |              |                 |
| Well No. <u>172</u> Elev <u>936.50'</u>                 | 20-16       |             |              |                 |
| District <u>Geary</u> County <u>Roane</u>               | Cond.       |             |              |                 |
| The surface of tract is owned in fee by _____           | 13-10"      |             |              |                 |
| <u>Pennzoil Company</u>                                 | 9 5/8"      |             |              |                 |
| Address <u>Parkersburg, WV</u>                          | 8 5/8"      | <u>226</u>  | <u>226</u>   | <u>125 sks.</u> |
| Mineral rights are owned by <u>Mr. Wm. Hack, Agt.</u>   | 7"          |             |              |                 |
| Address <u>City Bank, N.A., 399 Park Ave</u>            | 5 1/2"      |             |              |                 |
| Drilling Commenced <u>7-11-78</u> <u>New York, N.Y.</u> | 4 1/2"      | <u>1909</u> | <u>1909</u>  |                 |
| Drilling Completed <u>7-15-78</u>                       | 3"          |             |              |                 |
| Initial open flow _____ cu. ft. _____ bbls.             | 2"          |             |              |                 |
| Final production _____ cu. ft. per day _____ bbls.      | 1 1/2"      |             |              |                 |
| Well open _____ hrs. before test _____ RP.              | 1"          |             |              |                 |

Well treatment details:

Attach \_\_\_\_\_ to this permitting record.

Fractured 10-24-78 w/130BW, 1000# 20/40 sd., 500 Gal. 15% HCL  
Water Injection Well

Coal was encountered at \_\_\_\_\_ Feet \_\_\_\_\_ Inches  
Fresh water \_\_\_\_\_ Feet \_\_\_\_\_ Water \_\_\_\_\_ Feet  
Producing Sand Squaw

| Formation    | Color | Hard or Soft | Top Feet | Bottom Feet | Oil, Gas or Water | * Remarks |
|--------------|-------|--------------|----------|-------------|-------------------|-----------|
| Sand & Shale |       |              | 0        | 92          |                   |           |
| Shale        |       |              | 92       | 152         |                   |           |
| Shaley Sand  |       |              | 152      | 202         |                   |           |
| Shale        |       |              | 202      | 352         |                   |           |
| Shaley Sand  |       |              | 352      | 368         |                   |           |
| Sand         |       |              | 368      | 426         |                   |           |
| Shale        |       |              | 426      | 432         |                   |           |
| Sand         |       |              | 432      | 448         |                   |           |
| Shale        |       |              | 448      | 462         |                   |           |
| Sand         |       |              | 462      | 484         |                   |           |
| Shale        |       |              | 484      | 558         |                   |           |
| Sand         |       |              | 558      | 574         |                   |           |
| Shale        |       |              | 574      | 598         |                   |           |
| Sand         |       |              | 598      | 636         |                   |           |
| Shale        |       |              | 636      | 650         |                   |           |
| Sand         |       |              | 650      | 690         |                   |           |
| Shale        |       |              | 690      | 716         |                   |           |
| Shaley Sand  |       |              | 716      | 704         |                   |           |
| Shale        |       |              | 784      | 922         |                   |           |
| Sand         |       |              | 922      | 948         |                   |           |
| Shaley Sand  |       |              | 948      | 1166        |                   |           |
| Sand         |       |              | 1166     | 1192        |                   |           |
| Shale        |       |              | 1192     | 1244        |                   |           |
| Sand         |       |              | 1244     | 1400        |                   |           |

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MAR 16 2015  
WV Department of  
Environmental Protection

\* Indicates Electric Log tops in the remarks section.

4708702087

| Formation       | Color | Hard or Soft | Top Feet ± | Bottom | Gas or Water | Remarks |
|-----------------|-------|--------------|------------|--------|--------------|---------|
| Shale           |       |              | 1400       | 1412   |              |         |
| Sand            |       |              | 1412       | 1424   |              |         |
| Shale           |       |              | 1424       | 1430   |              |         |
| Sand            |       |              | 1430       | 1484   |              |         |
| Shale           |       |              | 1484       | 1492   |              |         |
| Sand            |       |              | 1492       | 1554   |              |         |
| Shale           |       |              | 1554       | 1606   |              |         |
| Sand            |       |              | 1606       | 1618   |              |         |
| Shale           |       |              | 1618       | 1660   |              |         |
| Little Lime     |       |              | 1660       | 1692   |              |         |
| Pencil Cave     |       |              | 1692       | 1712   |              |         |
| Big Lime        |       |              | 1712       | 1756   |              |         |
| Loyalhanna      |       |              | 1756       | 1820   |              |         |
| Keener          |       |              | 1820       | 1828   |              |         |
| Big Injun       |       |              | 1828       | 1852   |              |         |
| Shale           |       |              | 1852       | 1884   |              |         |
| Squaw           |       |              | 1884       | 1904   |              |         |
| Shale           |       |              | 1904       | 1919   |              |         |
| Total Depth     |       |              |            | 1919   |              |         |
| Plug Back Depth |       |              |            | 1897   |              |         |

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2 14

MAR 16 2015

APPROVE:

*Benzoil Company*

Department of  
Environmental Protection  
Eng. Dept.

06/12/2015

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 4944494833

Watershed Granny's Creek Quadrangle Newton

Elevation 937' GL County Roane District Geary

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

Will a synthetic liner be used in the pit? "No Pit"

Proposed Disposal Method For Treated Pit Wastes:

- Land Application
- Underground Injection ( UIC Permit Number \_\_\_\_\_ )
- Reuse (at API Number \_\_\_\_\_ )
- Off Site Disposal (Supply form WW-9 for disposal location)
- Other (Explain Fluids collected in surface tank and hauled to Ovapa Injection Facility.)

Proposed Work For Which Pit Will Be Used:

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

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 V.P. Appalachian Operations

Subscribed and sworn before me this 22nd day of January, 2015

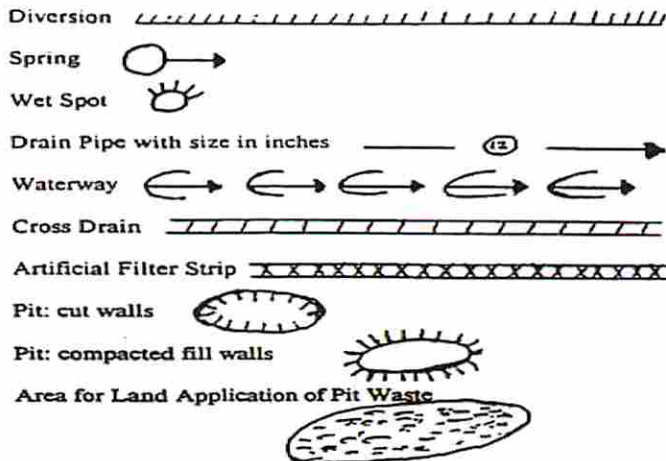
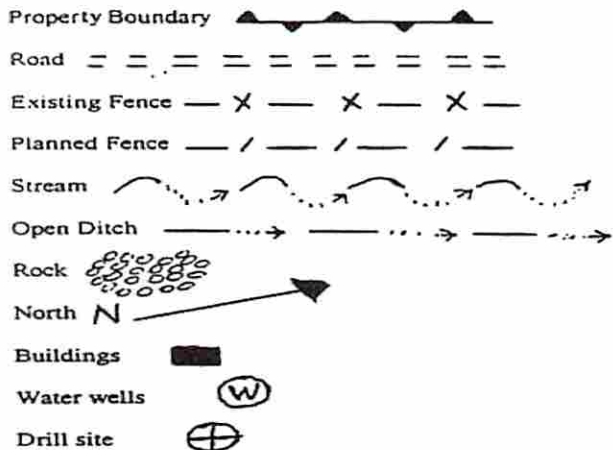
Elizabeth R. Tebay



My commission expires 2-29-16

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Office of Oil and Gas  
Notary Public ELIZABETH R. TEBAY  
MAR 16 2015  
In and for the State of Ohio  
My Commission Expires  
WW Department of  
Environmental Protection

LEGEND



Proposed Revegetation Treatment: Acres Disturbed one (1) Prevegetation pH 5.5

Lime Two (2) Tons/acre or to correct to pH 6.5

Fertilizer (10-20-20 or equivalent) 500 lbs/acre (500 lbs minimum)

Mulch (50 bales) 2.5 Tons/acre

Seed Mixtures

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

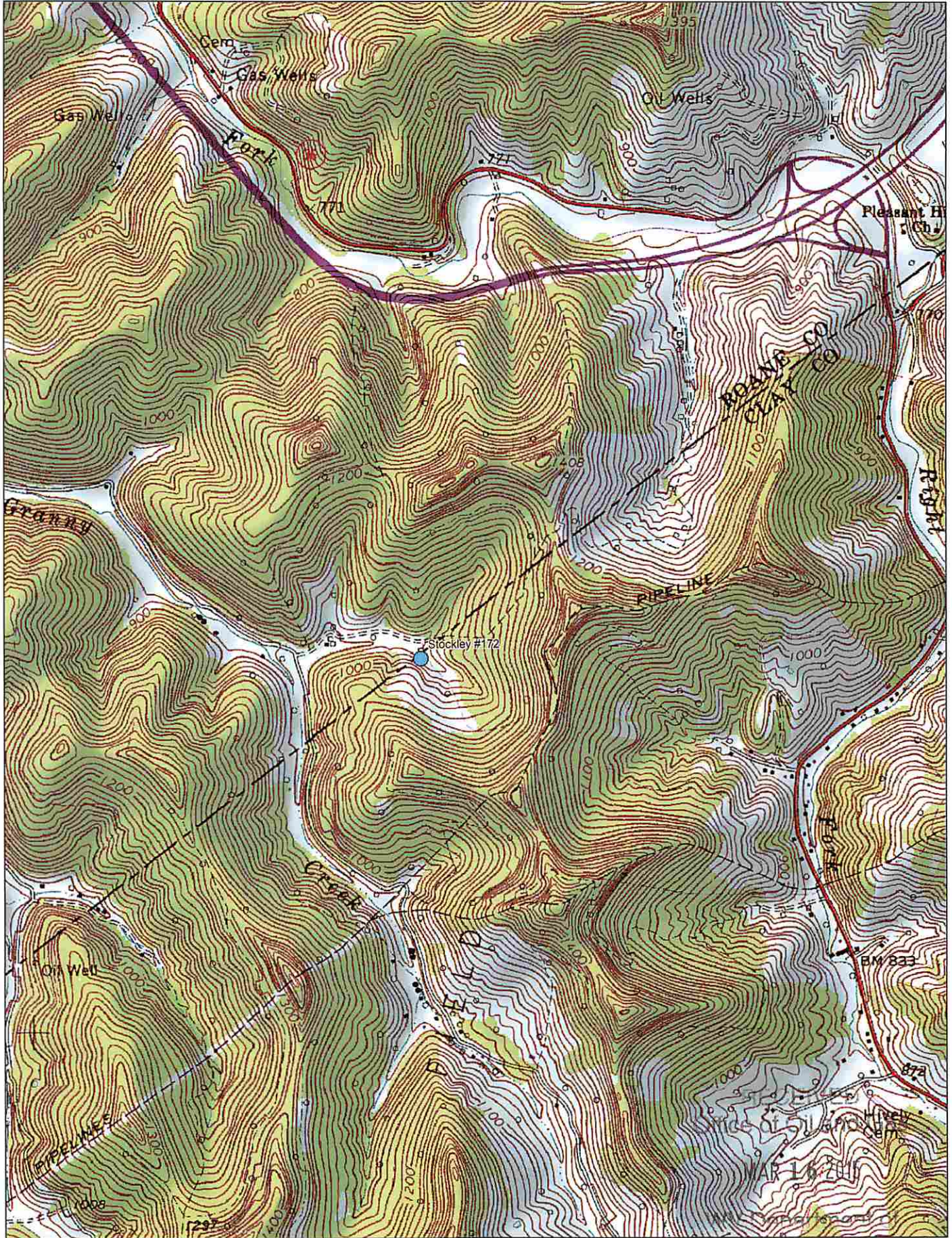
Comments: \_\_\_\_\_

Title: Inspector Date: 3/9/15

Field Reviewed? ( ) Yes (  ) No

WV Department of Environmental Protection

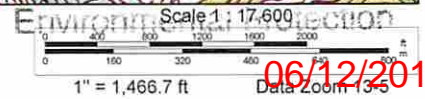
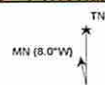




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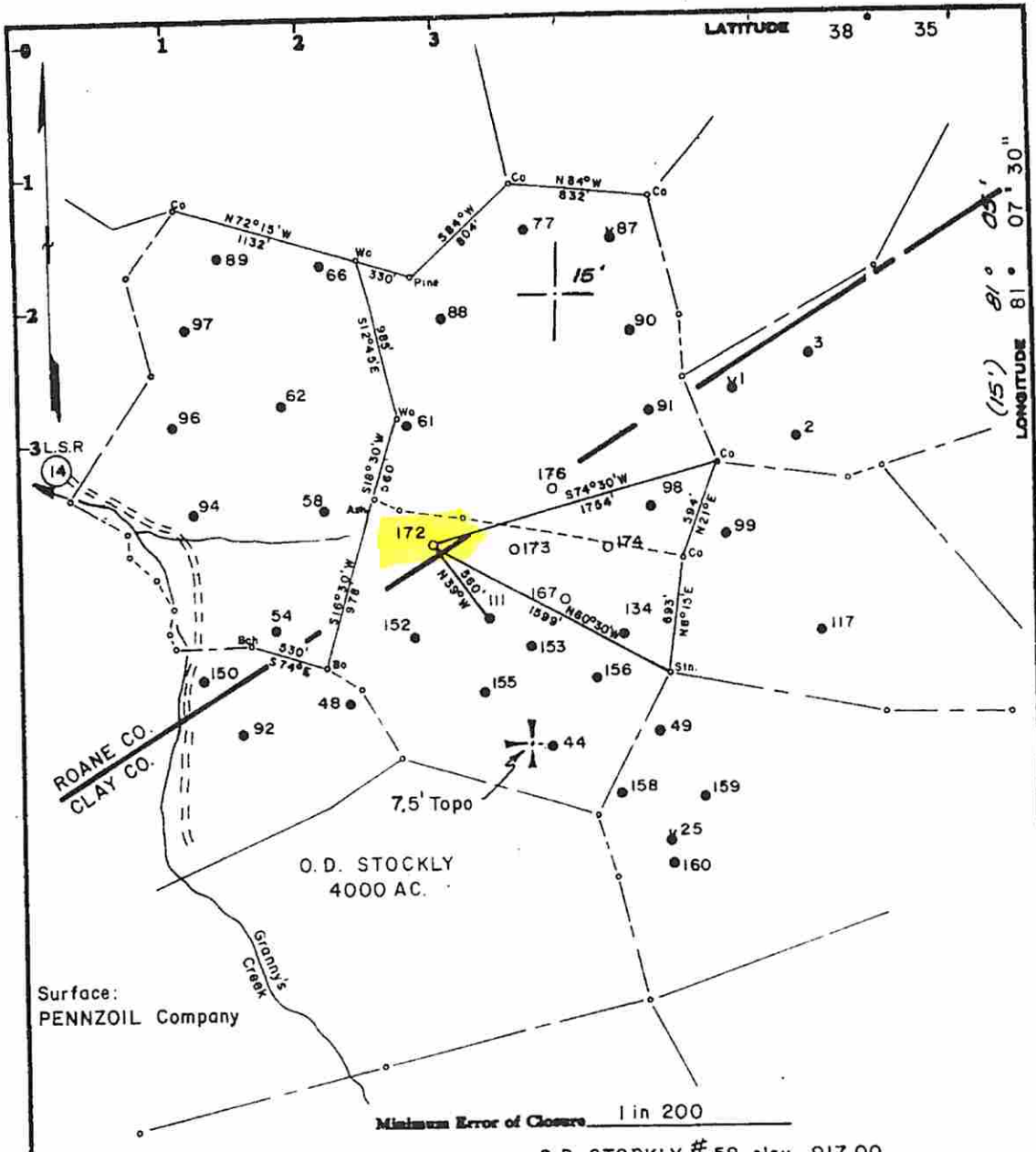
www.delorme.com



06/12/2015

4708702087

1350 2/10/78 R



Minimum Error of Closure 1 in 200  
 Source of Elevation O.D. STOCKLY # 58, elev. 917.00

Fracture   
 New Location  Water Injection  
 Drill Deeper   
 Abandonment

I, the undersigned, hereby certify that this map is correct to the best of my knowledge and belief and shows all the information required by paragraph 6 of the rules and regulations of the oil and gas section of the mining laws of West Virginia.

Signed: *Curtis A. Lucas*  
 Map No. 83 Squares: N 8 61 E W 31

Company PENNZOIL COMPANY  
 Address P. O. Box 1588, Parkersburg, W. Va. 26101  
 Farm O. D. STOCKLY  
 Tract Acres 4000 Lease No. 60643-50  
 Well (Farm) No. 172 Serial No.           
 Elevation (Spirit Level) 936.50  
 Quadrangle NEWTON 7.5' OTTER 15  
 County ROANE District GEARY  
 Surveyor CURTIS A. LUCAS  
 Surveyor's Registration No. 275  
 File No. 640 Drawing No.           
 Date 4-7-78 Scale 1" = 800

STATE OF WEST VIRGINIA  
 DEPARTMENT OF MINES  
 OIL AND GAS DIVISION  
 CHARLESTON

WELL LOCATION MAP  
 FILE NO. ROA-2087

+ Denotes location of well on United States Topographic Maps, scale 1 to 62,500, latitude and longitude lines being represented by border lines as shown.

- Denotes one inch spaces on border line of original tracing.

47-087

06/12/2015

BRUNING 44 131 27198

1820' Square

4708702087

WW-7  
8-30-06



West Virginia Department of Environmental Protection  
Office of Oil and Gas

WELL LOCATION FORM: GPS

API: 47-087-02087 P WELL NO.: 172

FARM NAME: O.D. Stockley

RESPONSIBLE PARTY NAME: Triad Hunter, LLC

COUNTY: Roane DISTRICT: Geary

QUADRANGLE: Newton

SURFACE OWNER: Triad Hunter, LLC

ROYALTY OWNER: Black Stone Minerals LLP

UTM GPS NORTHING: 4267219

UTM GPS EASTING: 486834 GPS ELEVATION: 969

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 Miller*  
Signature

Ecologist  
Title

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MAR 28 2015  
3/17/15  
Date  
West Virginia Department of Environmental Protection

06/12/2015

*4*

Operator: TRIAD HUNTER, LLC  
 API: 8702087  
 WELL No: O. D. STOCKLEY 172  
 Reviewed by: *Geo* Date: *6/9/15*  
 15 Day End of Comment: *03/24/15*

**CHECKLIST FOR FILING A PERMIT**

**Plugging**

- WW-4B
- Inspector signature on WW-4B
- Completion / Well Records of Previous Work
- WW-4A (Notarized)
- N/A* Certified Mail Receipts, Waivers, or Affidavits of Personal Service *Triad surface*
- Surface Owner Waiver
- Coal Owner / Lessee /Operator Waiver
- WW-9 (Page 1) (Notarized)
- Inspector Signature on WW-9 (Optional)
- Topographic Map of location of well
- WW-7

**OR**

- Mylar Plat (Surface owner on plat matches WW-4A)
- Bond
- Company is Registered with the SOS
- Worker's Compensation / Unemployment Insurance account is OK
- \$100.00 check (\$0.00 if no pit)