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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

April 30, 2015

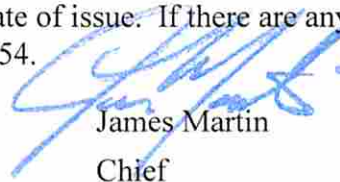
**WELL WORK PLUGGING PERMIT**

**Plugging**

This permit, API Well Number: 47-1501221, 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 147

Farm Name: STOCKLEY, O. D.

**API Well Number: 47-1501221**

**Permit Type: Plugging**

Date Issued: 04/30/2015

**Promoting a healthy environment.**

**05/01/2015**

## 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.
4. This well is under a consent order and must be plugged under the terms of that agreement.

1501221P

WW-4B  
Rev. 2/01

1) Date January 20, 20 15  
2) Operator's  
Well No. O.D. Stockley # 147  
3) API Well No. 47-015 - 1221

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 917' GL Watershed Granny's Creek  
District Henry County Clay 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 Name Ed Gainer  
Address P.O. Box 821  
Spencer, WV 25276
- 9) Plugging Contractor Name N/A  
Address \_\_\_\_\_

- 10) Work Order: The work order for the manner of plugging this well is as follows:  
 - 200' Bottom hole plug in 4 1/2" casing. *Herors part* **TAG PLUG, ADD CEMENT IF NEEDED.**  
 100' - Cut plug (4.5" csg.) Estimated cement top @ 1505'.  
 100' - Elevation plug @ 925'  
~~100'~~ - Surface casing plug @ 225'. } **SURFACE PLUG FROM SURFACE TO 251'.**  
~~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.

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Office of Oil and Gas  
MAR 16 2015

Notification must be given to the district oil and gas inspector of the WV Department of Environmental Protection before the proposed work can commence.

Work order approved by inspector  Date 3/9/15

05/01/2015

1501221P

OG-10  
Rev. - 9-71



STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES  
Oil and Gas Division

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NOV 3 - 1977

OIL & GAS DIVISION  
DEPT. OF MINES

WELL RECORD

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

Quadrangle Otter

Permit No. Cla-1221

Company <u>Pennzoil Company</u>	Casing and Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft. (Sks.)
Address <u>P. O. Box 1588, Parkersburg, WV 26101</u>	Size			
Farm <u>O. D. Stockly Acres 4000</u>	20-16			
Location (waters) <u>Granny's Creek</u>	Cond.			
Well No. <u>147</u> Elev. <u>917.28'</u>	13-10"			
District <u>Henry</u> County <u>Clay</u>	9 5/8			
The surface of tract is owned in fee by _____	8 5/8	201	201	100 sks.
<u>Ray E. King</u>	7			
Address <u>Ovapa, WV</u>	4 1/2			
Mineral rights are owned by <u>Mr. Wm. Hack, Agt.</u>	3	1878	1878	75 sks.
<u>City Bank, N.Y. Address 309 Park Ave., New York, N.Y.</u>	2			
Drilling Commenced <u>7-26-77</u>	Liners Used			
Drilling Completed <u>7-30-77</u>				
Initial open flow _____ cu. ft. _____ bbls.				
Final production _____ cu. ft. per day _____ bbls.				
Well open _____ hrs. before test _____ RP.				

Well treatment details:

Water Injection Well

Attach copy of cementing record.

Coal was encountered at \_\_\_\_\_ Feet \_\_\_\_\_ Inches  
Fresh water \_\_\_\_\_ Feet \_\_\_\_\_ Salt Water \_\_\_\_\_ Feet \_\_\_\_\_  
Producing Sand Big Injun Depth \_\_\_\_\_

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
Sandstone			0	36		
Shale			36	93		
Sandstone			93	205		
Shaly Sandstone			205	311		
Sandstone			311	452		
Shaly Sandstone			452	510		
Sandstone			510	658		
Shale			658	700		
Sandy Shale			700	904		
Sandstone			904	940		
Shale			940	1020		
Sandstone			1020	1358		
Sandy Shale			1358	1450		
Sandstone			1450	1464		
Shale			1464	1473		
Sandstone			1473	1534		
Shale			1534	1575		
Sandstone			1575	1620		
Little Lime			1620	1646		
Blue Monday			1646	1652		
Pencil Cave			1652	1683		
Big Lime			1683	1723		
Loyalhanna			1723	1790		
Keener			1790	1804		

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WV Department of  
Environmental Protection

\* Indicates Electric Log tops in the remarks section.

(over)

05/01/2015

1501221P

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
Big Injun			1804	1832		
Shale			1832	1860		
Squaw			1860	1876		
Shale			1876	1888		
Total Depth				1888		
PBD				1864		

Date November 2, 1977

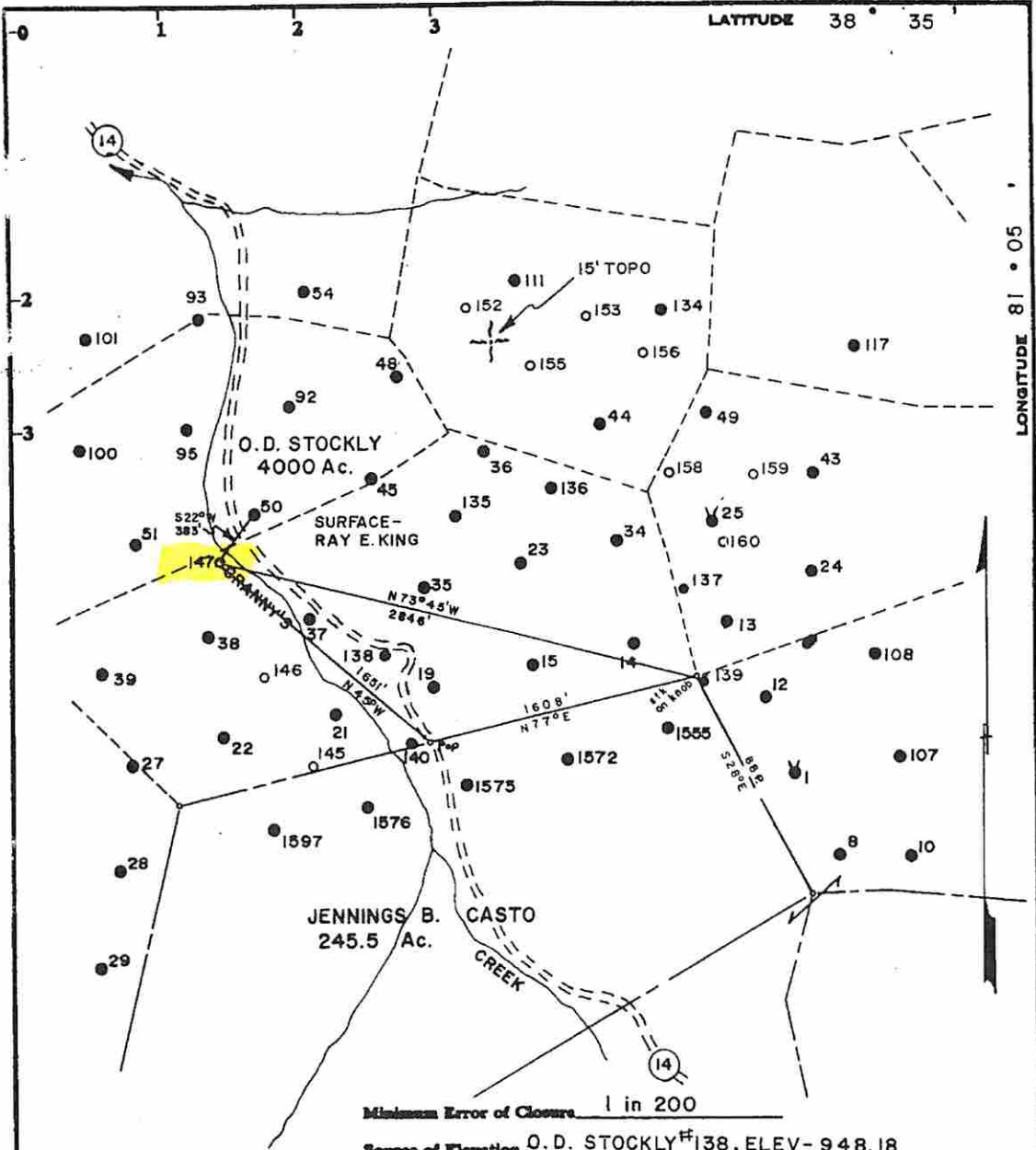
APPROVED PENNZOIL COMPANY

By Curtis A. Russ  
(Title)

05/01/2015

1501221P

4/21/77



Minimum Error of Closure 1 in 200

Source of Elevation O. D. STOCKLY #138, ELEV-948.18

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 861-62E W 31-32

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. 147 Serial No. \_\_\_\_\_  
 Elevation (Spirit Level) 917.28  
 Quadrangle OTTER 15'  
 County CLAY District HENRY  
 Surveyor CURTIS A. LUCAS  
 Surveyor's Registration No. 275  
 File No. 640 Drawing No. \_\_\_\_\_  
 Date 4-25-77 Scale 1" = 800'

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

WELL LOCATION MAP  
 FILE NO. CLA-1221

+ 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 space on border line of original tracing. 47-015

MAR 16 2015

BRUNING 44-131 27198

1870 Big Injun

05/01/2015

WW-4A  
Revised 6-07

1) Date: 1/20/2015  
2) Operator's Well Number  
O.D. Stockley # 147

3) API Well No.: 47 - 015 - 1221

**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**

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

Subscribed and sworn before me this 22nd day of January, 2015  
Elizabeth R. Tebay Notary Public  
 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).

1501221P

**SURFACE OWNER WAIVER**

Operator's Well  
Number

O.D. Stockley # 147

**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.

**RECEIVED**  
**Office of Oil and Gas**  
**MAR 16 2015**  
**WV Department of**  
**Environmental Protection**

FOR EXECUTION BY A CORPORATION

\_\_\_\_\_  
Signature

\_\_\_\_\_  
Date

\_\_\_\_\_  
Name  
By  
Its

\_\_\_\_\_  
Date

Signature \_\_\_\_\_  
Date **05/01/2015**



WW-4B

API No.	<u>47-015-1221 P</u>
Farm Name	<u>O.D. Stockley</u>
Well No.	<u>147</u>

**INSTRUCTIONS TO COAL OPERATORS  
OWNERS AND LESSEE**

The well operator named on the obverse side of WW-4 (B) is about to abandon the well described in the enclosed materials and will commence the work of plugging and abandoning said well on the date the inspector is notified. Which date shall not be less than five days after the day on which this notice and application so mailed is received, or in due course should be received by the Department of Environmental Protection Office of Oil & Gas.

This notice and application is given to you in order that your respective representatives may be present at the plugging and filling of said well. You are further notified that whether you are represented or not the operator will proceed to plug and fill said well in the manner required by Section 24, Article 6, Chapter 22 of the Code and given in detail on obverse side of this application.

NOTE: If you wish this well to be plugged according to 22-6-24(d) then as per Regulation 35CSR4-13.9 you must complete and return to this office on form OB-16 "Request by Coal Operator, Owner, or Lessee for plugging" prior to the issuance of this plugging permit.

**WAIVER**

The undersigned coal operator \_\_\_\_ / owner \_\_\_\_ / lessee \_\_\_\_ / of the coal under this well location has examined this proposed plugging work order. The undersigned has no objection to the work proposed to be done at this location, provided, the well operator has complied with all applicable requirements of the West Virginia Code and the governing regulations.

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

\_\_\_\_\_

By: \_\_\_\_\_

Its \_\_\_\_\_

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Office of Oil and Gas

MAR 16 2015

WV Department of  
Environmental Protection

05/01/2015

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 917' GL County Clay District Henry

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

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

ANY WELL EFFLUENT MUST  
BE CONTAINED IN TANKS  
AND DISPOSED OF PROPERLY.  
gwm

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

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Office of Oil and Gas

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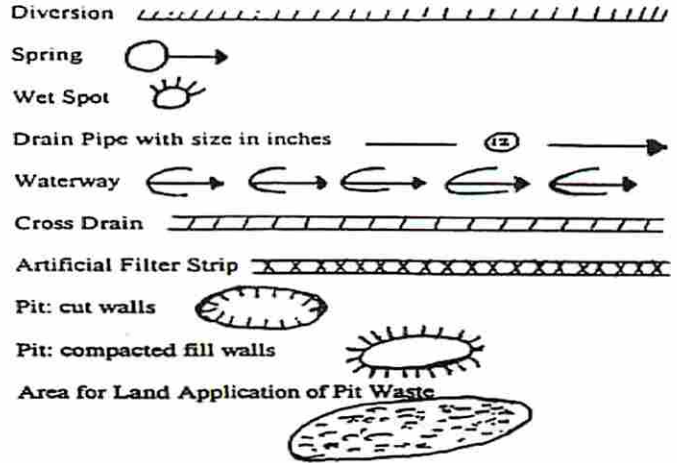
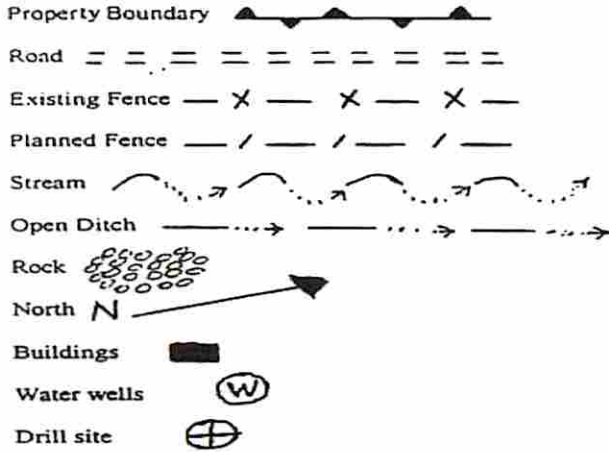
Subscribed and sworn before me this 22<sup>nd</sup> day of January, 20 15

[Signature]  
Notary Public



My commission expires 2-29-16

**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: [Signature] RECEIVED Office of Oil and Gas  
 Comments: \_\_\_\_\_ MAR 16 2015

Title: Inspector Date: 3/9/15 WV Department of Environmental Protection

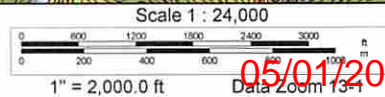
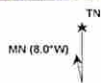
Field Reviewed? ( ) Yes ( X ) No



Data use subject to license.

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www.delorme.com



05/01/2015

WW-7  
8-30-06



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

API: 47-015-01221 WELL NO.: 147

FARM NAME: O.D. Stockley

RESPONSIBLE PARTY NAME: Triad Hunter, LLC

COUNTY: Clay DISTRICT: Henry

QUADRANGLE: Newton

SURFACE OWNER: Triad Hunter, LLC

ROYALTY OWNER: Black Stone Minerals LLP

UTM GPS NORTHING: 4266533

UTM GPS EASTING: 486454 GPS ELEVATION: 935

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.

*Bm Jmetzger*  
Signature

Geologist  
Title

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MAR 26 2015  
WV Department of  
Environmental Protection  
3/17/15  
Date

Operator: TRIAD HUNTER, LLC  
API: 1501221  
WELL No: O. D. STOCKLEY 147  
Reviewed by: gwm Date: 4/29/15  
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)
- Certified Mail Receipts, Waivers, or Affidavits of Personal Service
- n/a Surface Owner Waiver slo IS OPERATOR
- Coal Owner / Lessee / Operator Waiver NO COAL OPERATOR
- 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)

05/01/2015