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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: 47-8702101, 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 180  
Farm Name: STOCKLEY, O. D.  
**API Well Number: 47-8702101**  
**Permit Type: Plugging**  
Date Issued: 06/11/2015

**Promoting a healthy environment.**

**06/12/2015**

# PERMIT CONDITIONS 4708702101

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.

4708702101

WW-4A  
Revised 6-07

1) Date: 1/20/2015  
2) Operator's Well Number  
O.D. Stockley # 180  
3) API Well No.: 47 - 087 - 2101 *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.

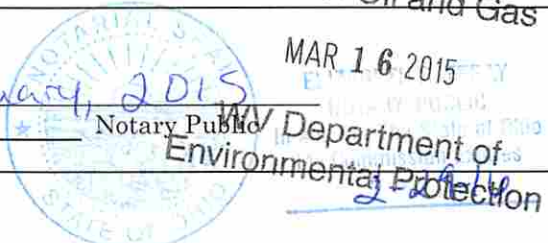
The reason you received these documents is that you have rights regarding the application which are summarized in the instructions on the reverses side. However, you are not required to take any action at all.

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 *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

Subscribed and sworn before me this 22nd day of January, 2015  
Elizabeth P. 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 [depprivacyofficer@wv.gov](mailto:depprivacyofficer@wv.gov).

06/12/2015

4708702101

WW-4B  
Rev. 2/01

1) Date January 20, 2015  
2) Operator's  
Well No. O.D. Stockley # 180  
3) API Well No. 47-087 - 2101 ?

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 994' 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 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:

- 150' - 200' Bottom hole plug in 4 1/2" casing. Across parts
- 100' - Cut plug (4.5" csg.) Estimated cement top @ 1463'.
- 100' - Elevation plug @ 1025'.
- 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


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MAR 16 2015

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

WV Department of  
Environmental Protection

Work order approved by inspector



Date

3/9/15

06/12/2015



47 087 021 01

STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES

Oil and Gas Division

WELL RECORD

Quadrangle Newton 7.5'

Permit No. Roa-2101

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

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>				
Farm <u>O. D. Stockly</u> Acres <u>4000</u>	Size			
Location (waters) <u>Granny's Creek</u>	<u>20-16</u>			
Well No. <u>180</u> Elev. <u>994.20'</u>	Cond.			
District <u>Gearv</u> County <u>Roane</u>	<u>13-10"</u>			
The surface of tract is owned in fee by <u>William Pearson</u>	<u>9 5/8</u>			
Address <u>Clay, WV 25043</u>	<u>8 5/8</u>	<u>224</u>	<u>224</u>	<u>125 sks.</u>
Mineral rights are owned by <u>Mr. Wm. Hack, Agt.</u>	<u>7</u>			
Address <u>City Bank, N.A., 399 Park Ave</u>	<u>5 1/2</u>			
Drilling Commenced <u>7-2-78</u> <u>New York, N.Y.</u>	<u>4 1/2</u>	<u>1959</u>	<u>1959</u>	<u>100 sks.</u>
Drilling Completed <u>7-7-78</u>	<u>3</u>			
Initial open flow _____ cu. ft. _____ bbls.	<u>2</u>			
Final production _____ cu. ft. per day _____ bbls.	Liners Used			
Well open _____ hrs. before test _____ RP.				

Well treatment details:

Attach copy of cementing record.

Fractured 11-9-78 w/149BW, 1000# 20/40 sd., 250 gal. 15% HCL

Water Injection Well

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

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Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	Remarks
Sand & Shale			0	94		WV Department of Environmental Protection
Sand			94	126		
Shale			126	200		
Sand			200	216		
Shale			216	228		
Shaley Sand			228	344		
Shale			344	404		
Shaley Sand			404	426		
Sand			426	458		
Shale			458	486		
Sand			486	500		
Shale			500	567		
Sand			567	580		
Shale			580	602		
Sand			602	622		
Shale			622	648		
Sand			648	682		
Shale			682	690		
Sand			690	702		
Shale			702	708		
Sand			708	716		
Shale			716	728		
Sand			728	750		
Shale			750	774		

06/12/2015

(over)

\* Indicates Electric Log tops in the remarks section.

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
Shaley Sand			774	846		
Shale			846	898		
Shaley Sand			898	914		
Shale			914	972		
Shaley Sand			972	1042		
Shale			1042	1152		
Shaley Sand			1152	1216		
Sand			1216	1272		
Shale			1272	1280		
Shaley Sand			1280	1302		
Sand			1302	1392		
Shaley Sand			1392	1420		
Sand			1420	1460		
Shale			1460	1492		
Sand			1492	1582		
Shale			1582	1704		
Little Lime			1704	1732		
Pencil Cave			1732	1758		
Big Lime			1758	1800		
Loyalhanna			1800	1864		
Keener			1864	1902		
Shale			1902	1932		
Squaw			1932	1950		
Shale			1950	1965		
Total Depth				1965		
Plug Back Depth				1947		

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WV Department of  
Environmental Protection

06/12/2015

Date 2-14 19 79

APPROVED Pennzoil Company Owner

By Christina A. Berman  
(Title) Eng. Dept.

*Noted 2-11-80  
hgs*

**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 994' 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
- 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 *Rocky Roberts*

Company Official (Typed Name) Rocky Roberts

Company Official Title Senior V.P. Appalachian Operations

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MAR 16 2015

Subscribed and sworn before me this 22<sup>nd</sup> day of January, 2015

*Elizabeth R. Lebay*  
Notary Public



WV Department of  
Environmental Protection  
NOTARY PUBLIC  
In and For the State of Ohio  
My Commission Expires  
2-29-16

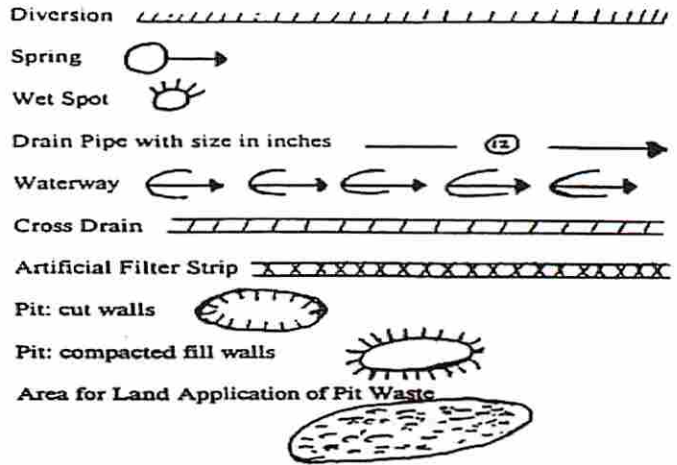
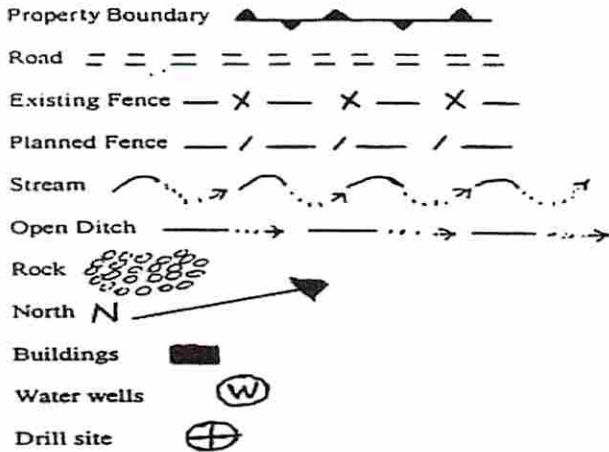
My commission expires 2-29-16

87-2101P

Operator's Well No. O.D. Stockley # 180

47 087 021 01

**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		Seed Type	Area II	
		lbs/acre			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: 

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 Office of Oil and Gas  
 MAR 16 2015

Title: Inspector  
 Field Reviewed? ( ) Yes ( X ) No

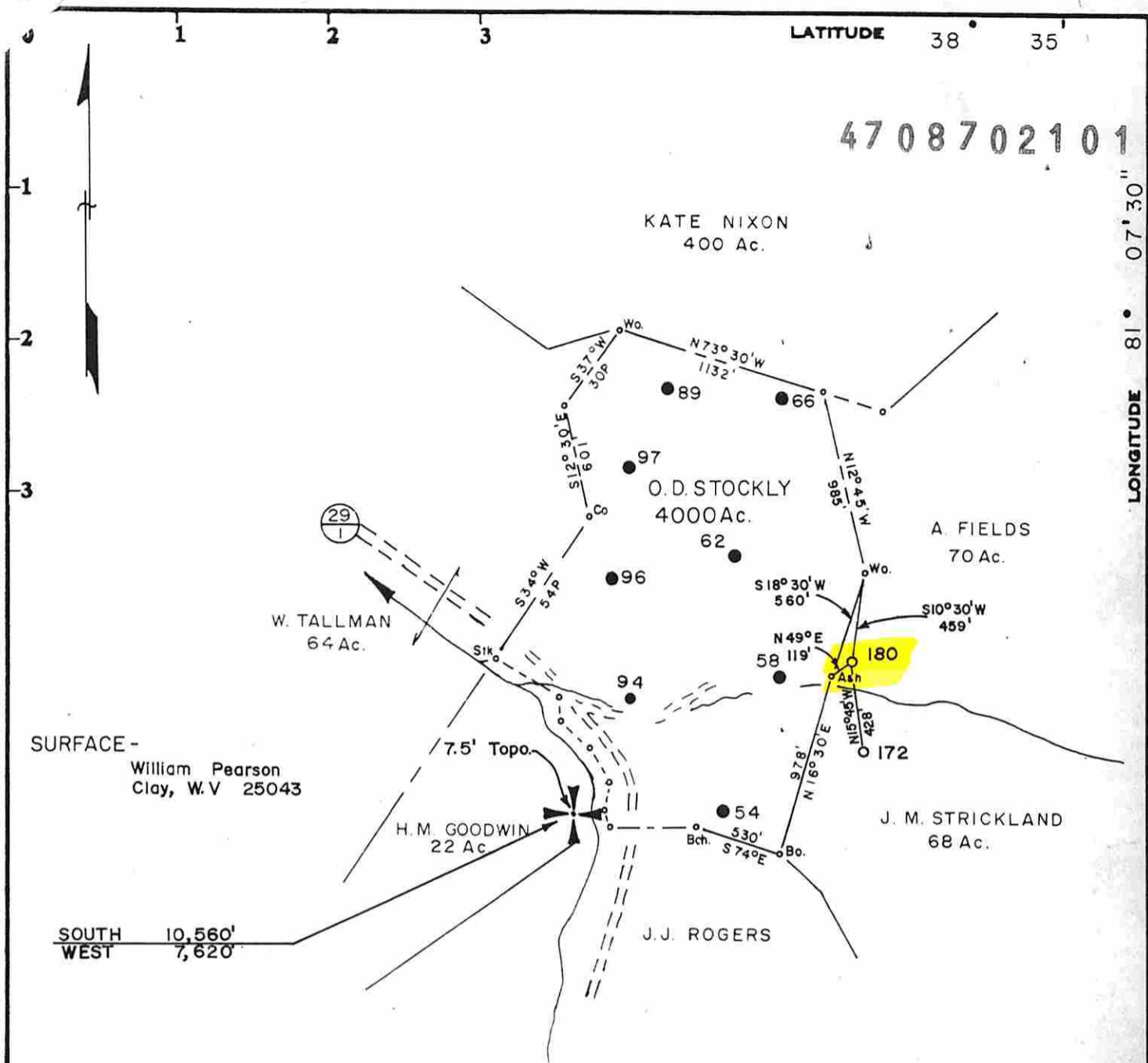
Date: 3/9/15  
 WV Department of Environmental Protection



LATITUDE 38° 35'

4708702101

LONGITUDE 81° 07' 30"



Minimum Error of Closure 1 in 200

Source of Elevation O. D. Stockly 172, Elev. 936.50

- Fracture.....
- New Location.....
- 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 S 61 E W 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.	180 Serial No. _____
Elevation (Spirit Level)	994.20
Quadrangle	NEWTON 7 1/2'
County	ROANE District GEARY
Surveyor	CURTIS A. LUCAS
Surveyor's Registration No.	275
File No.	640 Drawing No. _____
Date	5-10-78 Scale 1" = 800'

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

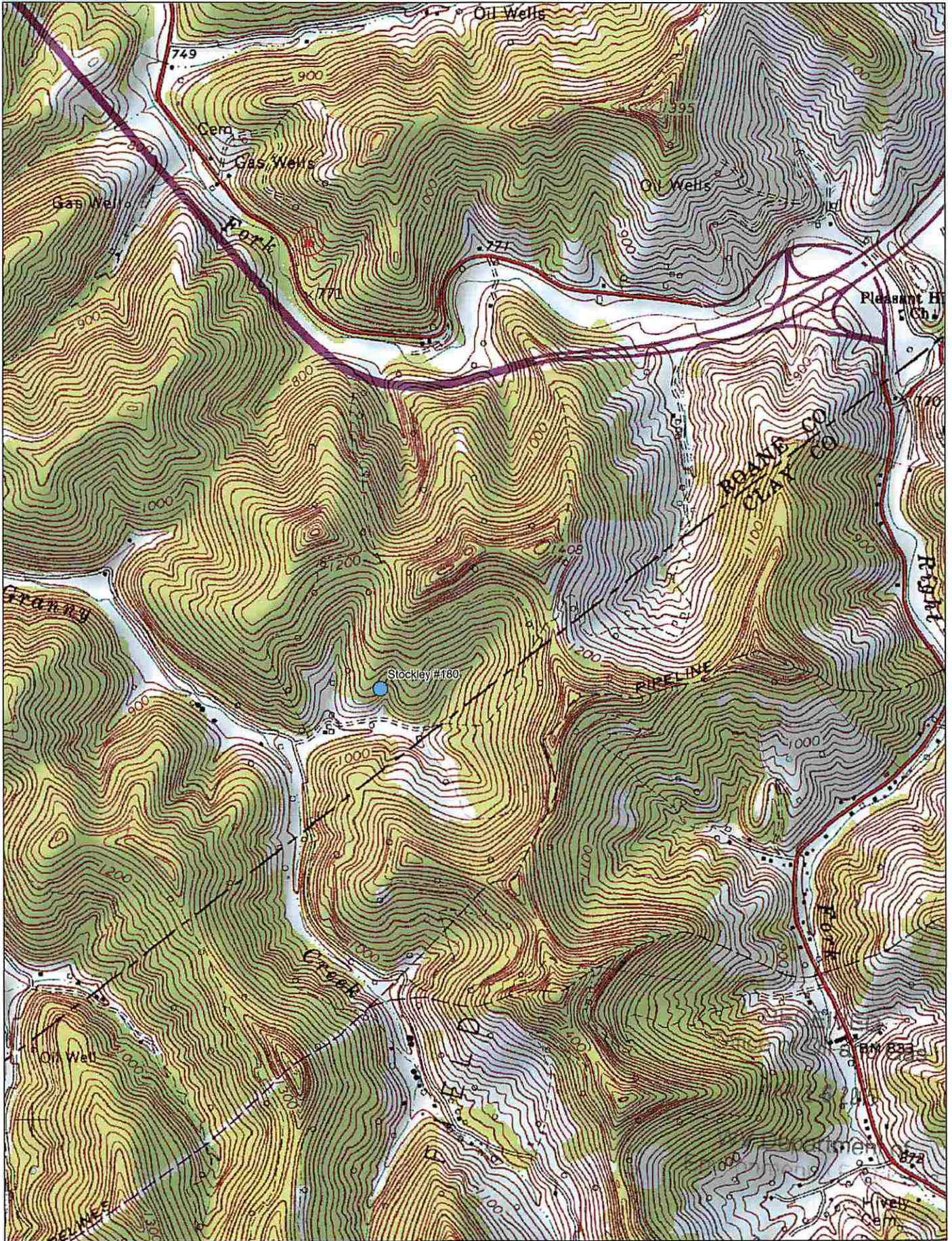
### WELL LOCATION MAP

FILE NO. 06/12/2015

+ 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.

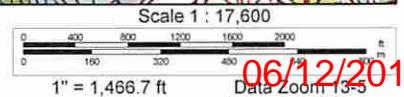
BRUNING 44-131 27198



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06/12/2015



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

API: 47-087-02101 WELL NO.: 180

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: 4267416

UTM GPS EASTING: 486702 GPS ELEVATION: 998

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.

*Tom Smith*  
Signature

Geologist  
Title

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Office of Oil and Gas  
MAR 26 2015  
3/17/15  
Department of Environmental Protection  
Date



47 087 021 01

Operator: TRIAD HUNTER, LLC

API: 8702101

WELL No: O. D. STOCKLEY 180

Reviewed by: GCS Date: 5/9/15

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)