



**west virginia** department of environmental protection

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

February 28, 2014

**WELL WORK PLUGGING PERMIT**

**Plugging**

This permit, API Well Number: 47-1501818, 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. STOCKLY #218

Farm Name: O'DELL, DOUGLAS

**API Well Number: 47-1501818**

**Permit Type: Plugging**

Date Issued: 02/28/2014

**Promoting a healthy environment.**

**02/28/2014**

## 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.

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### 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.

1501818P

WW-4B  
Rev. 2/01

1) Date January 30, 2014  
2) Operator's  
Well No. O.D. Stockly # 218  
3) API Well No. 47-015 - 01818

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 X

5) Location: Elevation 1090' GPS Watershed Grannys Creek  
District Henry 02 County Clay 15 Quadrangle Newton 512

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

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

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

( SEE ATTACHED SHEET )

See changes!

0  
10% gel between all plugs

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Environmental Protection

Notification must be given to the district oil and gas inspector 24 hours before permit work can commence.  
  
Work order approved by inspector [Signature]

Date 2/14/14

02/28/2014

( 2014 )

Plugging Procedure Attachment ( Wells with 8 5/8" Casing )

Well Name : O.D. Stockly # 218

Permit Number: 47-015-01818

District: Henry

County: Clay

MIIRU service rig and flowback tank; blow well down.

1. Pull tubing and rods OOH.
2. Check total depth with sandpump; clean out hole below bottom perforation.
3. Run 2 3/8" tubing below bottom perforation.
4. ( Bottom Hole Plug ) Mix/Pump 20 sacks Class A cement,( 23.6 cu. ft.), ¼ lb.flocele/sk., no CaCl.
5. Displace cement through tubing with gel water.
6. Pull 2 3/8" tubing OOH.
7. RIH with casing cutter tool, check depth of 1<sup>st</sup> plug and find 4 ½" cement top ( free pipe ).
8. Cut-off 4 ½" casing just above the cement top, break circulation, and pull one jt. of casing OOH.
9. ( Cut Plug ) Mix/Pump 30 sacks Class A cement, (35.4 cu. ft.), ¼ lb. flocele/sk.,no CaCl.
10. Displace cement through casing with gel water.
11. Pull 4 ½" casing up to the subsea elevation depth.
12. ( Elevation Plug ) Mix/Pump 30 sacks of Class A cement,( 35.4 cu. ft.), ¼ lb. flocele/sk., no CaCl.
13. Displace cement through casing with gel water.
14. Pull 4 ½" casing to 100 feet below surface. *for 100 ft plug across bottom of surface exp. 310 - 210*
15. ( Surface Plug ) Mix/Pump 30 sacks of Class A cement,( 35.4 cu. ft.), ¼ lb. flocele/sk., no CaCl.
16. Circulate cement to surface.
17. Pull remaining joints of 4 ½" casing OOH. Top load annulus with Class A cement to surface.
18. Weld a three foot monument pipe on to the existing casing. Fill monument pipe with cement and attach identification plate to monument pipe.
19. RDMO service rig and supporting equipment.
20. Reclaim well site and lease road.

13a →

Plug Summary

( Plug Name )	( Thickness )	( Cement Type )	( Sacks )	( Cubic Feet )
1. Bottom Hole	250 ft.	Class A	20	23.6 (2064' - 1864')
2. Cut Plug	100 ft.	Class A	30	35.4
3. Elevation Plug	100 ft.	Class A	30	35.4 (1232' - 1132')
4. Surface Plug	100 ft.	Class A	30	35.4 (312' - 212')
5. Totals:			<u>110 sacks</u>	129.8 cu. ft.

3a →

140

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STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES  
**Oil and Gas Division**  
**WELL RECORD**

Quadrangle Newton 7.5'  
Permit No. 47-015-1818

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

Company Pennzoil Company  
Address P. O. Box 1588, Parkersburg, WV 26101  
Farm O. D. Stockly Acres 4000  
Location (waters) Grannys Creek  
Well No. 218 Elev. 1181.93  
District Henry County Clay  
The surface of tract is owned in fee by \_\_\_\_\_  
O. T. White  
Address Clay, WV  
Mineral rights are owned by Daniel Kahan  
Address P.O. Box 559, Tulsa, Okla.  
Drilling Commenced 10-6-80  
Drilling Completed 10-10-80  
Initial open flow W.I.W. cu. ft. \_\_\_\_\_ bbls.  
Final production \_\_\_\_\_ cu. ft. per day \_\_\_\_\_ bbls.  
Well open \_\_\_\_\_ hrs. before test \_\_\_\_\_ RP.

Casing and Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft. (Sks.)
Size 20-16			
Cond. 13-10"			
9 5/8			
8 5/8	262	262	145 sks.
7			
5 1/2			
4 1/2	2060	2060	75 sks.
3			
2			
Liners Used			

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 \_\_\_\_\_ Depth \_\_\_\_\_

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	Remarks
Sand & Shale			0	250		
Sand			250	352		
Shale			352	360		
Sand			360	386		
Shale & Sand			386	1802		
Little Lime			1802	1830		
Blue Monday			1830	1866		
Big Lime			1866	1916		
Loyalhanna			1916	1982		
Big Injun			1982	2012		
Shale			2012	2046		
Squaw			2046	2064		
Total Depth				2064		

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Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	Remarks

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FEB 20 2014

Date July 31, WV Department of  
PENNSYLVANIA Environmental Protection  
APPROVED Curtis G. Lucas Owner  
Supervisor, Surveying & Mapping



# Basin Surveys, Inc.

## DENSITY LOG

FILING NO.  
 PERMIT NO.  
 CLAY-1818

PENNZOIL CO.  
 PETROLEUM ENGR. DEPT.  
**FILE COPY**

COMPANY PENNZOIL COMPANY

WELL O.D. STOCKLEY # 218

FIELD HENRY DISTRICT

COUNTY CLAY STATE W.VA.

LOCATION: GRANNYS CREEK  
QUAD: NEWTON 7.5'

SEC. \_\_\_\_\_ TWP. \_\_\_\_\_ RGE. \_\_\_\_\_

OTHER LOGS:

PERMANENT DATUM GROUND LEVEL ELEV. 1083.99'  
 LOG MEASURED FROM KELLY BUSHING  
 DRILLING MEASURED FROM KELLY BUSHING

ELEVATIONS:  
 KB. 1091.99'  
 DF. 1090.99'  
 GL. 1083.99'

DATE	<u>10 OCTOBER 80</u>
RUN NO.	<u>ONE</u>
TYPE LOG	<u>GR-CD-CAL</u>
DEPTH - DRILLER	<u>2065'</u>
DEPTH - LOGGER	<u>2064'</u>
BOTTOM LOGGED INTERVAL	<u>2062'</u>
TOP LOGGED INTERVAL	<u>SURFACE</u>
TYPE FLUID IN HOLE	<u>H<sub>2</sub>O-MUD</u>
SALINITY PPM CL.	<u>-</u>
DENSITY LB./GAL.	<u>-</u>
LEVEL	<u>-</u>
MAX. REC. TEMP. - DEG. F	<u>-</u>
OPR. RIG TIME	<u>2 1/2 HRS</u>
RECORDED BY	<u>R. REINECKE</u>
WITNESSED BY	<u>MR. HELDMAIL</u>

*FIELD PRINT*

RUN NO.	BORE HOLE RECORD				CASING RECORD		
	BIT	FROM	TO	SIZE	WGT.	FROM	TO
<u>ONE</u>	<u>6 3/4"</u>	<u>252'</u>	<u>TD.</u>	<u>7"</u>	<u>-</u>	<u>SURFACE</u>	<u>252'</u>

THIS HEADING AND LOG CONFORM TO API STANDARD PRACTICE RP-33

FEB 20 2014

Big  
line

1900

Logal kerro

Big  
Tayor

2000  
Sand  
Notch

SHALE

Squaw

$\rho_s = 2.71$   
 $\rho = 2.68$

$\rho_s = 2.68$   
 $\rho = 2.66$

CORRECTION

BULK DENSITY

POROSITY

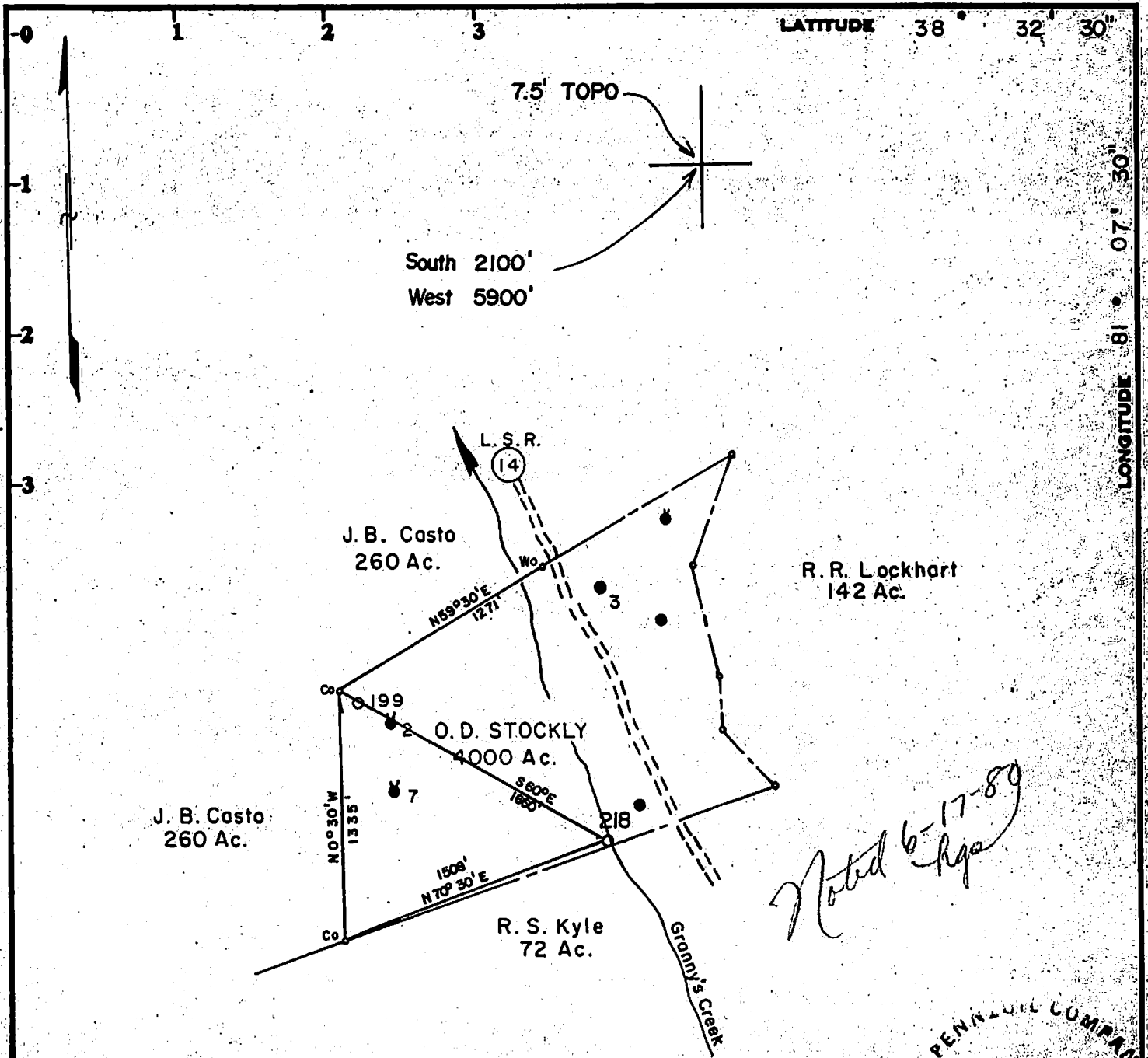
CALIPER

GAMMA RAY

FR  
2064TD



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*Noted 6-17-80*

PENNZOIL COMPANY  
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 JUN 16 1980  
 LAND DEPARTMENT  
 PARKERSBURG  
 WEST VIRGINIA

Surface-  
 O.T. White  
 Ova, WV

Minimum Error of Closure 1 in 200  
 Source of Elevation O.D. STOCKLY NO. 7, ELEV. 1392.00'

Fracture.....   
 New Location.....  Injection Well  
 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 6 2 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.	218	Serial No.
Elevation (Spirit Level)	1083.99'	
Quadrangle	NEWTON	7.5'
County	CLAY	District HENRY
Surveyor	CURTIS A. LUCAS	
Surveyor's Registration No.	275	
File No.	640	Drawing No.
Date	6/15/80	Scale 1" = 800'

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

**WELL LOCATION MAP**

FILE NO. 02/28/2014

+ Denotes location of well on State Topographic Maps, scale 1" = 62,500' and longitude lines being represented by border lines as shown.

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

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 WV Department of Environmental Protection

BRUNING 44-131 27198

1501818P

WW-4A  
Revised 6-07

1) Date: January 30, 2014  
2) Operator's Well Number  
O.D. Stockly # 218  
3) API Well No.: 47 - 015 - 01818

**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>Douglas O'dell</u>	Name	<u>N/A</u>
Address	<u>3781 Ovapa Road</u> <u>Prociuous, W.V. 25164</u>	Address	<u></u>
(b) Name	<u></u>	(b) Coal Owner(s) with Declaration	
Address	<u></u>	Name	<u>N/A</u>
(c) Name	<u></u>	Address	<u></u>
Address	<u></u>	Name	<u></u>
		Address	<u></u>
6) Inspector	<u>Ed Gainer</u>	(c) Coal Lessee with Declaration	
Address	<u>P.O. Box 821</u> <u>Spencer, W.V. 25276</u>	Name	<u>N/A</u>
Telephone	<u>( 304 ) 389-7582</u>	Address	<u></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

Subscribed and sworn before me this 30<sup>th</sup> day of January, 2014  
Elizabeth R. Juby Notary Public  
 My Commission Expires 2-29-14

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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 [depprivacyofficer@wv.gov](mailto:depprivacyofficer@wv.gov).

**WV Department of Environmental Protection**  
**02/28/2014**

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7009 2410 0002 0631 6903

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MARIETTA OH 45750  
 FEB 19 2014  
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Sent To  
 Douglas O'dell  
 3781 Ovapa Rd  
 Procious, WV 25164

PS Form 3800, June 2009

9

- O.D. Stockly # 208 47-015-1626
- " # 209 47-015-1641
- " # 210 47-015-1642
- " # 212 47-015-1653
- " # 216 47-015-1820
- " # 217 47-015-1819
- " # 218 47-015-1818
- " # 211 47-015-1643
- " # 219 47-015-1819

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WW-9  
Rev. 5/08

Page 1 of 2  
API Number 47 - 015 - 01618  
Operator's Well No. O.D. Stockly # 218

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 Grannys Creek Quadrangle Newton

Elevation 1090' GPS County Clay District Henry

Description of anticipated Pit Waste: \* No Pit \*; fluids will be separated at Ovapa Facility; oil stored and salt water re-injected.

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 \_\_\_\_\_ )

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.

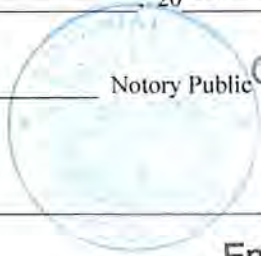
Company Official Signature *Rocky Roberts*

Company Official (Typed Name) Rocky Roberts

Company Official Title Senior V.P. Appalachian Operations

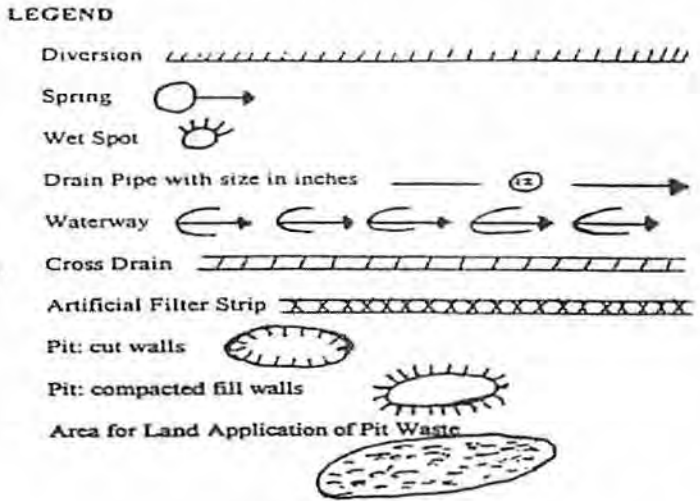
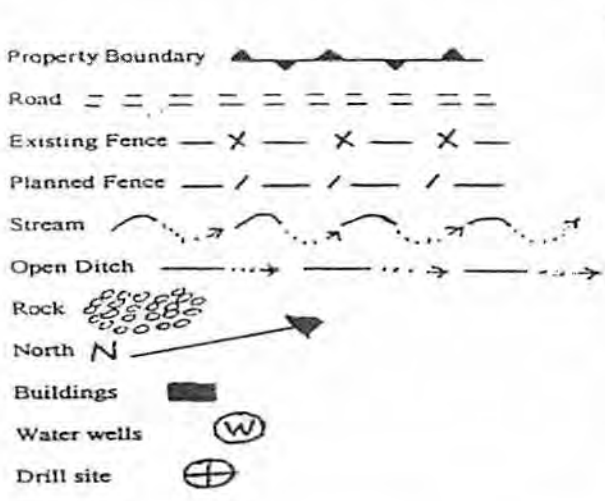
Subscribed and sworn before me this 30 day of January, 2014

*Elizabeth R. Siby*



My commission expires 2-29-16

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02/28/2014



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) 600 lbs/acre (500 lbs minimum)


Mulch 90-100 bales/acre 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: 2/4/14

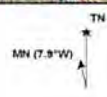
Field Reviewed? ( ) Yes ( X ) No



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Tennessee  
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Environmental Protection  
Scale 1" = 2,343.8 ft  
Data Zoom 12-7

02/28/2014

WW-7  
8-30-06



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

API: 47-015-01818 WELL NO.: 218

FARM NAME: O.D. Stockly

RESPONSIBLE PARTY NAME: Triad Hunter, LLC

COUNTY: Clay DISTRICT: Henry

QUADRANGLE: Newton

SURFACE OWNER: Douglas O'dell

ROYALTY OWNER: Black Stone Minerals LLP et al

UTM GPS NORTHING: 4265305

UTM GPS EASTING: 0487348 GPS ELEVATION: 1090'

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 Smith*  
Signature

Geologist  
Title

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FEB 20 2014  
1/17/14  
Date  
WV Department of Environmental Protection



# Chuck Taylor Toolbox

## Geographic/UTM Coordinate Converter

You can convert between geographic coordinates and Universal Transverse Mercator (UTM) coordinates using this form.

**Note:** This is a JavaScript-powered form. If you have difficulties using this form, check your browser's settings to make sure you have enabled JavaScript.

Programmers: The JavaScript source code in this document may be copied and reused without restriction.

If you have a Java 1.1-compliant browser, and especially if you need to use an ellipsoid model other than WGS84, you may want to try the [Coordinate and Datum Transformations tool](#).

---

Geographic (degrees decimal)	To/From	UTM	O.D. Stockly #218
lon <u>-81.145167656468</u> [ >> ]	x (easting)	<u>0487348</u>	
lat <u>38.536062719489</u> [ << ]	y (northing)	<u>4265305</u>	
	zone	<u>17</u>	
	hemisphere	<input checked="" type="radio"/> N <input type="radio"/> S	

*Geographic coordinates are entered and displayed in decimal degrees. Negative numbers indicate West longitudes and South latitudes. UTM coordinates are entered and displayed in meters. The ellipsoid model used for computations is WGS84.*

---

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1/10/2014