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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 23, 2014

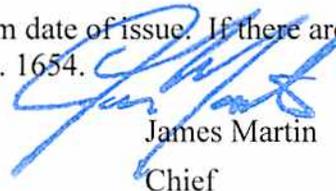
**WELL WORK PLUGGING PERMIT**

**Plugging**

This permit, API Well Number: 47-1501182, 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: 140  
Farm Name: STOCKLEY, O. D.  
**API Well Number: 47-1501182**  
**Permit Type: Plugging**  
Date Issued: 04/23/2014

**Promoting a healthy environment.**

# 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.

1501182 P

WW-4B  
Rev. 2/01

1) Date January 30, 2014  
2) Operator's  
Well No. O.D. Stockly # 140  
3) API Well No. 47-015 - 01182

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 914' GPS Watershed Grannys 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, 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!

0/0 gel between all plugs

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

Work order approved by inspector 

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2/6/14  
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( 2014 )

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

Well Name : O.D. Stockly # 140

Permit Number: 47-015-01182

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.), 1/4 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 1/2" cement top ( free pipe ).
8. Cut-off 4 1/2" 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.), 1/4 lb. flocele/sk.,no CaCl.
10. Displace cement through casing with gel water.
11. Pull 4 1/2" casing up to the subsea elevation depth.
12. ( Elevation Plug ) Mix/Pump 30 sacks of Class A cement,( 35.4 cu. ft.), 1/4 lb. flocele/sk., no CaCl.
13. Displace cement through casing with gel water.
14. Pull 4 1/2" casing to 100 feet below surface.
15. ( Surface Plug ) Mix/Pump 30 sacks of Class A cement,( 35.4 cu. ft.), 1/4 lb. flocele/sk., no CaCl.
16. Circulate cement to surface.
17. Pull remaining joints of 4 1/2" 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.

ELV. 914'



PROVE BOTTOM OF 5 7/8" CSG - 140-0

( ELEV. PLUG 964' - 864' )

Plug Summary

( Plug Name )	( Thickness )	( Cement Type )	( Sacks )	( Cubic Feet )
1. Bottom Hole	250 ft.	Class A	20	23.6
2. Cut Plug	100 ft.	Class A	30	35.4
3. Elevation Plug	100 ft.	Class A	30	35.4
4. Surface Plug	<del>100 ft.</del>	Class A	<del>30</del>	35.4
5. Totals:	180		110 sacks	129.8 cu. ft.

PERFORATIONS: 1847' - 1872' (25)

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500

1501182p

# PENNZOIL COMPANY

PRELIMINARY

## NEW WELL REPORT

LEASE No. 60643-00 4000 ACRES

WORKING DISTRICT Central Area

O. D. Stockley FARM

Map #83  
WELL No. 140 N. \_\_\_\_\_ S. 61-2 E. \_\_\_\_\_ W. 31-2

Henry DISTRICT OR TOWNSHIP

Clay COUNTY Otter QUAD.

LOCATION MADE August 19 76

DRILLING COMMENCED August 17, 19 76

DRILLING EQUIPMENT USED  SPUDDER ROTARY

DRILLING COMPLETED August 21, 19 76

DRILLING EQUIPMENT FURNISHED BY F W A Drilling Company Inc.

TOTAL DEPTH 1927 SAND Big Injun & Squaw

ELEVATION: FLOOR \_\_\_\_\_

DRILLING CONTRACTOR F W A Drilling Co., Inc.

ELEVATION: GROUND 946.78

WORK ORDER No. 70-26794

### KB 8' Above Ground Level

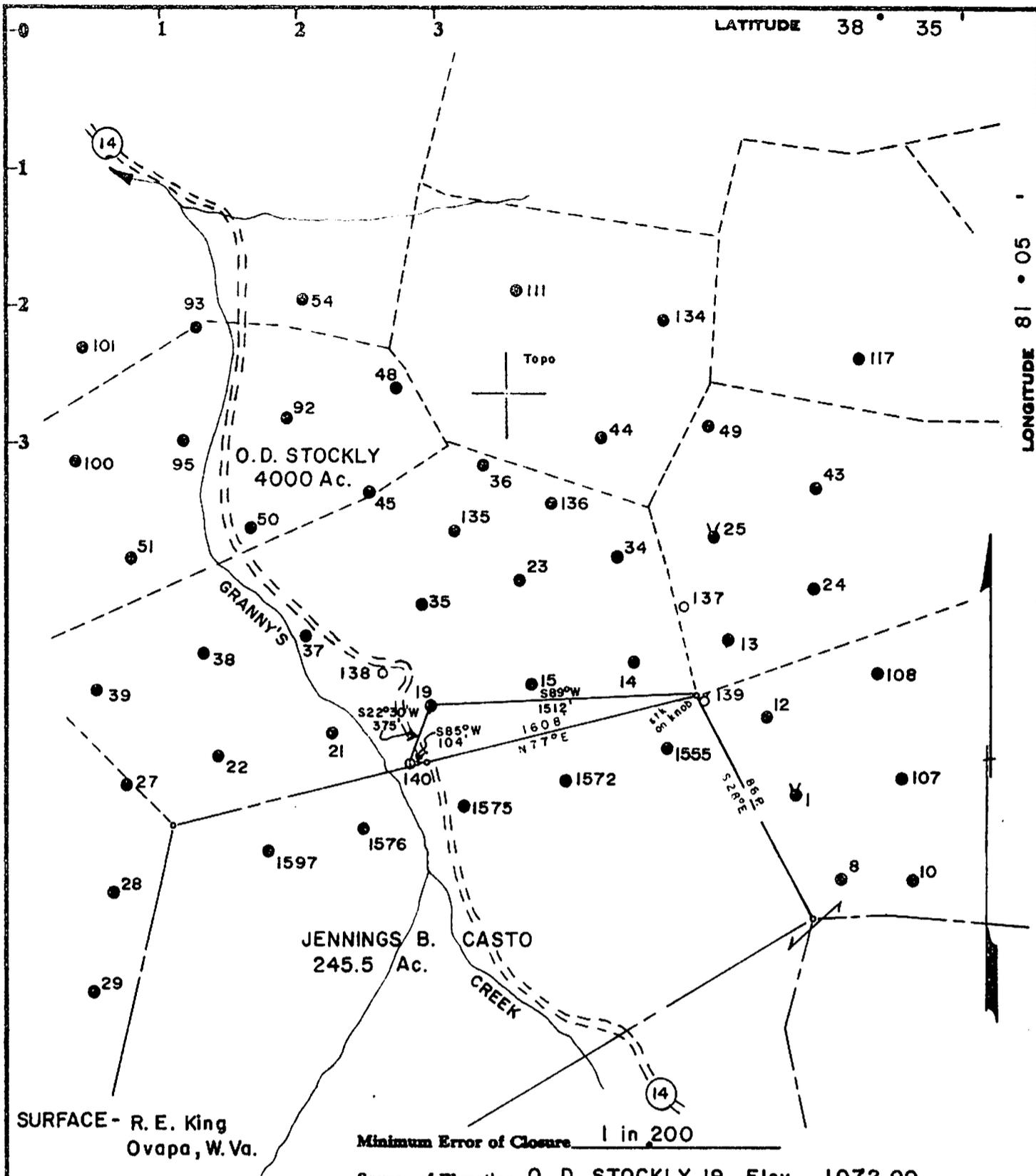
### FORMATION RECORD

KIND	TOP	BOTTOM	STEEL LINE MEAS.	TEST	KIND	TOP	BOTTOM	STEEL LINE MEAS.	TEST
3 5/8" OD Csg.		134.16	GL						
Sand & Silt	0	112							
Sand W/Shale	112	314							
Shale	314	329							
Sand	329	412							
Shale	412	428							
Sand	428	488							
Shale	488	540							
Sand	540	701							
Shale & Sand	701	874							
Sand & Shale	874	1012							
Shale	1012	1088							
Sand	1088	1140							
Shale	1140	1200							
Salt Sand	1200	1408							
Shale Break	1408	1440							
Salt Sand	1440	1573							
Shale & Silt	1573	1660							
Little Lime	1660	1690							
Blue Monday	1690	1706							
Shale	1706	1724							
Big Lime	1724	1766							
Loyalhanna	1766	1838							
Big Injun	1838	1873							
Squaw	1873	1906							
Shale	1906	1918							
1/2" O.D. Casing		1918.64	GL						
TOTAL DEPTH		1927							

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SURFACE - R. E. King  
Ovapa, W. Va.

Minimum Error of Closure 1 in 200

Source of Elevation O. D. STOCKLY 19, Elev. 1072.00

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    S61-62E    W 31-32

Company PENNZOIL COMPANY  
 Address P. O. Box 1588, Parkersburg, W. Va. 26101  
 Farm O. D. STOCKLY  
 Tract            Acres 4000 Lease No. 60643-00  
 Well (Farm) No. 140 Serial No.             
 Elevation (Spirit Level) 946.78  
 Quadrangle OTTER  
 County CLAY District HENRY  
 Surveyor CURTIS A. LUCAS  
 Surveyor's Registration No. 275  
 File No. 640 Drawing No.             
 Date July 1, 1976 Scale 1" = 800'

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

**WELL LOCATION MAP**

FILE NO.           

+ 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

1501182A



# McCullough®

## GAMMA RAY LOG

FILING NO.  
HGR-83761

PENNCOIL CO.  
REGULATORY ENCL. DEPT.  
FILE COPY

COMPANY PENNZOIL CO.

WELL O. D. STOCKLEY #140

FIELD HENRY DISTRICT

COUNTY CLAY STATE WEST VIRGINIA

LOCATION: GRANNY'S CREEK

OTHER SERVICES:

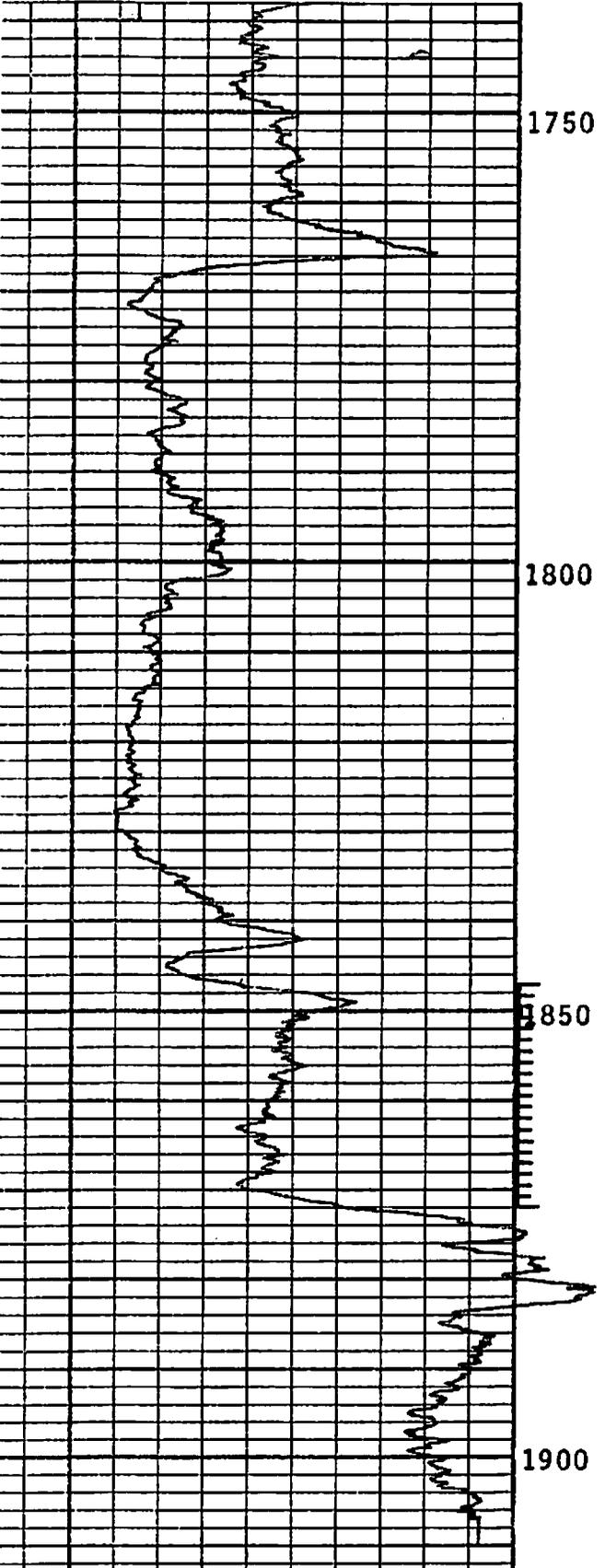
PERMANENT DATUM	GL	ELEV.	946.78'
LOG MEASURED FROM	KB		
DRILLING MEASURED FROM	KB		
DATE	12-27-76		
RUN NO.	ONE		
TYPE LOG	GAMMA RAY		
DEPTH-DRILLER	1927'		
DEPTH-LOGGER	1909'		
BOTTOM LOGGED INTERVAL	1907'		
TOP LOGGED INTERVAL	1630'		
TYPE FLUID IN HOLE	DRY		
SALINITY PPM CL.			
DENSITY LB./GAL.			
LEVEL			
MAX. REC. TEMP. DEG. F.			
OPR. RIG TIME			
RECORDED BY	LEGG		
WITNESSED BY	MR. McCOWN		

RUN NO.	BORE HOLE RECORD			CASING RECORD		
	BIT	FROM	TO	SIZE	WGT.	FROM
1	6-3/4"	142'	TD	8-5/8"		0
				4-1/2"		0

THIS HEADING AND LOG CONFORMS TO API RECOMMENDED STANDARD PRACTICE RP-33 (A)

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1401820



3-1/8" DYNA JET  
25 HOLES

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Environmental Protection

LOG BOTTOM - 1907'

PENNYCO  
O. D. STOCKLEY #140

WW-4A  
Revised 6-07

1) Date: January 30, 2014  
2) Operator's Well Number  
O.D. Stockly # 140  
3) API Well No.: 47 - 015 - 01182

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>Laura Lynn Doss</u>	Name <u>N/A</u>
Address <u>4675 Ovapa Road</u>	Address _____
<u>Ovapa, W.V. 25164</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, W.V. 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.

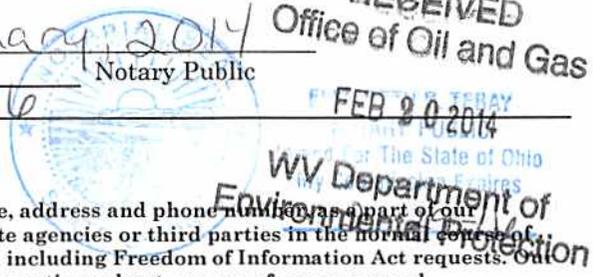
Well Operator Triad Hunter, LLC  
 By: Rocky Roberts  
 Its: Senior V.P. Appalachian Operations  
 Address 125 Putnam Street  
Marietta, Ohio 45750  
 Telephone ( 740 ) 374-2940

Subscribed and sworn before me this 30<sup>th</sup> day of January, 2014  
Elizabeth R. Kirby  
 My Commission Expires 2-29-16  
 Notary Public

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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, for 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).



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Sent  **Laura Lynn Doss**  
 4675 Ovapa Rd  
 Ovapa, WV 25164

PS Form 3800, October 2010 BEZI instructions

*MARIETTA OH 45750*  
*FEB 14 2014*  
 USPS

Postmark Here

①

O.D. Stockly # 140

47-015-1182

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 4675 Ovapa Rd  
 Ovapa, WV 25164

PS Form 3800, October 2010 BEZI instructions

*MARIETTA OH 45750*  
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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 914' 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.

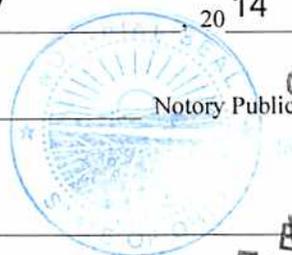
Company Official Signature [Signature]

Company Official (Typed Name) Rocky Roberts

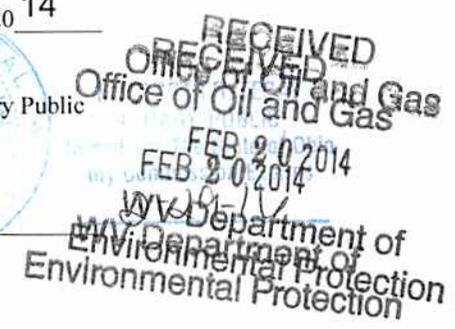
Company Official Title Senior V.P. Appalachian Operations

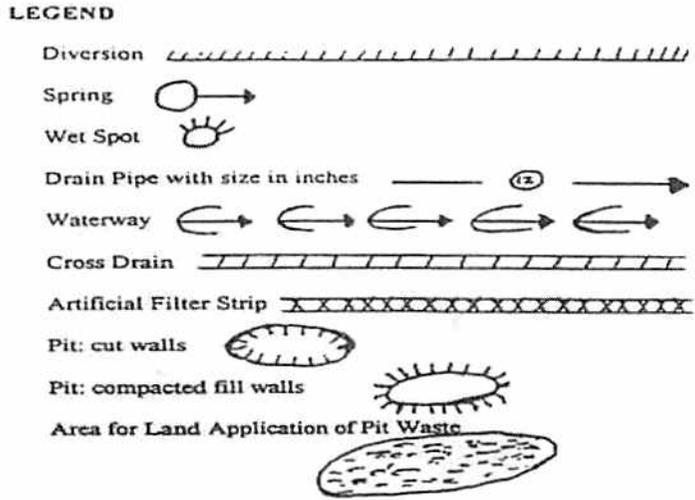
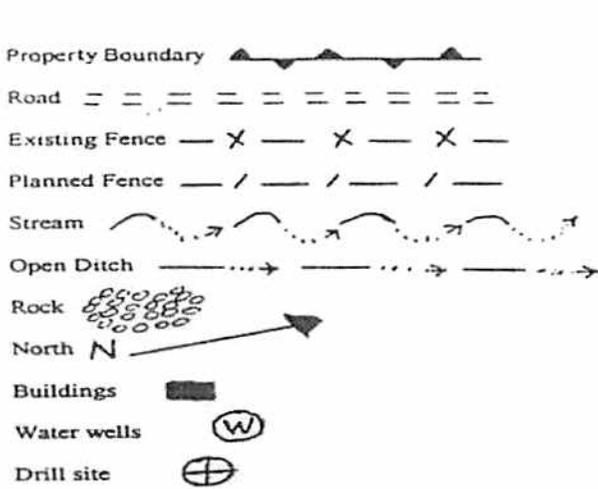
Subscribed and sworn before me this 30 day of January, 2014

[Signature]



My commission expires 2-29-16





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.

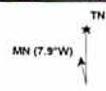
Plan Approved by: [Signature]  
Comments: \_\_\_\_\_

Title: Inspector Date: 2/6/14

Field Reviewed? ( ) Yes ( X ) No



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0 200 400 600 800 1000  
 1" = 2,343.8 ft Data Zoom 12-7

1501182A

WW-7  
8-30-06



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

API: 47-015-01182 WELL NO.: 140

FARM NAME: O.D. Stockly

RESPONSIBLE PARTY NAME: Triad Hunter, LLC

COUNTY: Clay DISTRICT: Henry

QUADRANGLE: Newton

SURFACE OWNER: Laura Lynn Doss

ROYALTY OWNER: Black Stone Minerals LLP et al

UTM GPS NORTHING: 4266217

UTM GPS EASTING: 0486789 GPS ELEVATION: 914'

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 Smethers  
Signature

Geologist  
Title

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1/17/14  
Date  
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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	
lon <u>-81.151598791455</u> [ >> ]		x (easting) <u>0486789</u>	O.D. Stockly # 140
lat <u>38.544273569231</u> [ << ]		y (northing) <u>4266217</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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