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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](http://www.dep.wv.gov)

March 20, 2014

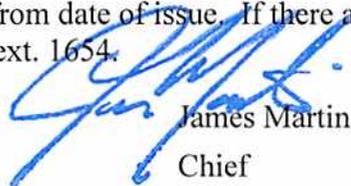
**WELL WORK PLUGGING PERMIT**

**Plugging**

This permit, API Well Number: 47-1501630, 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 #200  
Farm Name: JONES, DAVID  
**API Well Number: 47-1501630**  
**Permit Type: Plugging**  
Date Issued: 03/20/2014

**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.

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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.

1501630P

WW-4B  
Rev. 2/01

1) Date January 30, 2014  
2) Operator's  
Well No. O.D. Stockly # 200  
3) API Well No. 47-015 - 01630

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 1142' 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!*

*6" gel between all plugs*

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

Work order approved by inspector 

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Date 2/6/14  
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Environmental Protection

( 2014 )

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

Well Name : O.D. Stockly # 200

Permit Number: 47-015-01630

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. *Set 100 ft plug in casing pipe - 400 - 300*
14. Pull 4 ½" casing to 100 feet below surface.
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.

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. <i>100 ft</i>	Class A	30	35.4
4. Surface Plug	100 ft.	Class A	30	35.4
5. Totals:			<del>110 sacks</del>	<del>129.8 cu. ft.</del>

140

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1501630P

STATE OF WEST VIRGINIA DEPARTMENT OF MINES, OIL AND GAS DIVISION DATE: March 25, 1980 WELL OPERATOR'S REPORT OF O. D. Stockly 200 47-015-1630-

WELL TYPE: Gas / Liquid Injection X / Waste Disposal (If "Gas", Production      / Underground storage / Deep / Drillow) LOCATION: Elevation: 1165.14' Watershed: Granny's Creek District: Henry County: Clay Quadrangle: Newton 7.5'

WELL OPERATOR Pennzoil Company DESIGNATED AGENT Mr. James A. Crews Address P. O. Box 1588 Parkersburg, WV 26101 P. O. Box 1588 Parkersburg, WV 26101

RECEIVED MAR 27 1980 OIL & GAS DIVISION DEPT. OF MINES

PERMITTED WORK: Drill X / Convert      / Drill deeper      / Re-drill      / Fracture or stimulate      Plug off old formation      / Perform      / Other physical change in well (specify)     

PERMIT ISSUED ON June 21, 1979 OIL & GAS INSPECTOR FOR THIS WORK: Name Martin Nichols Address P. O. Box 554 Clendenin, WV

GEOLOGICAL TARGET FORMATION: Squaw Depth 2030 Feet Depth of completed well, 2153 feet Rotary X / Cable Tools      Water strata depth: Fresh,      feet; salt,      feet. Coal seam depths:      Is coal being mined in the area? No Work was commenced August 2, 1979, and completed January 11, 1980

CASING AND TUBING PROGRAM

Table with columns: CASING OR TUBING TYPE, SPECIFICATIONS (Size, Grade, Weight, New, Used), FOOTAGE INTERVALS (For drilling, Left in well), CEMENT FILL-UP OR SACKS (Cubic feet), PACKERS (Kinds, Sizes, Depths set, Perforations: Top, Bottom)

OPEN FLOW DATA

Producing formation Water Injection Well Pay zone depth      feet Gas: Initial open flow,      Mcf/d Oil: Initial open flow,      Bbl/d Final open flow,      Mcf/d Final open flow,      Bbl/d Time of open flow between initial and final tests,      hours Static rock pressure,      psig (surface measurement) after      hours shut in [if applicable due to multiple completion--] Second producing formation      Pay zone depth      feet Gas: Initial open flow,      Mcf/d Oil: Initial open flow,      Bbl/d Final open flow,      Mcf/d Final open flow,      Bbl/d Time of open flow between initial and final tests,      hours Static rock pressure,      psig (surface measurement) after      hours shut

1501630P

FORM IV-33  
Reverse

(09-78)

DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC.

Fractured: 1-11-80 w/250 gal. 15% HCL, 160BGW, 1000# 20/40 sd.

WELL LOG

FORMATION	Color	Hard or Soft	5' Top Feet	Bottom Feet	Remarks Including indication of all fres and salt water, coal, oil and gas
Sand & Shale			0	209	
Sand			209	251	
Shale			251	350	
Sand			350	468	
Shale & Sand			468	1885	
Little Lime			1885	1924	
Blue Monday			1924	1954	
Big Lime			1954	1994	
Loyalhanna			1994	2063	
Keener			2063	2074	
Big Injun			2074	2101	
Shale			2101	2130	
Squaw			2130	2143	
Shale			2143	2153	
Total Depth				2153	

(Attach separate sheets to complete as necessary.)

Pennzoil Company  
Well Operator

By Carroll A. Perry  
Civil Engineering Dept.

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NOTE: Regulation 2.0346i provides as follows:  
"The term 'log' or 'well log' shall mean a systematic, detailed geological record of all formations, including coal, encountered in the drilling of a well."

# NL McCullough

BOND CEMENT AND/OR SONIC SEISMOGRAM LOG  
 GAMMA RAY

FILING NO. HBC-GR-SS-98917

COMPANY PENNZOIL COMPANY

WELL O.D. STOCKLY #200

FIELD HENRY DISTRICT

COUNTY CLAY STATE WEST VIRGINIA

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

LOCATION GRANNY'S CREEK  
 NEWTON 7.5'

OTHER SERVICES:

SEC. TWP. RGE.

PERMANENT DATUM	GL	ELEV. 1165.14'
LOG MEASURED FROM	KB	
DRILLING MEASURED FROM	KB	
DATE	8-14-79	
RUN NO.	ONE	
TYPE LOG	BOND CEMENT-GAMMA RAY-SONIC SEISMOGRAM	
DEPTH-DRILLER	2155'	
DEPTH-LOGGER	2022'	
BOTTOM LOGGED INTERVAL	2017.5'	
TOP LOGGED INTERVAL	1040'	
TYPE FLUID IN HOLE	WATER	
SALINITY PPM CL.		
DENSITY LB./GAL.		
LEVEL	FULL	
MAX. REC. TEMP. DEG. F.		
OPR. RIG TIME	1 HOUR	
RECORDED BY	MAYFIELD	
WITNESSED BY	MR. HELDMAN	

RUN NO.	BORE HOLE RECORD			CASING RECORD		
	BIT	FROM	TO	SIZE	WGT.	FROM
1	7-7/8"	353'	1253'	8-5/8"		0
	6-3/4"	1253'	TD	4-1/2"		0

THIS HEADING AND LOG CONFORMS TO API RECOMMENDED STANDARD PRACTICE PP. 33 (P)

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1950

2000

2050

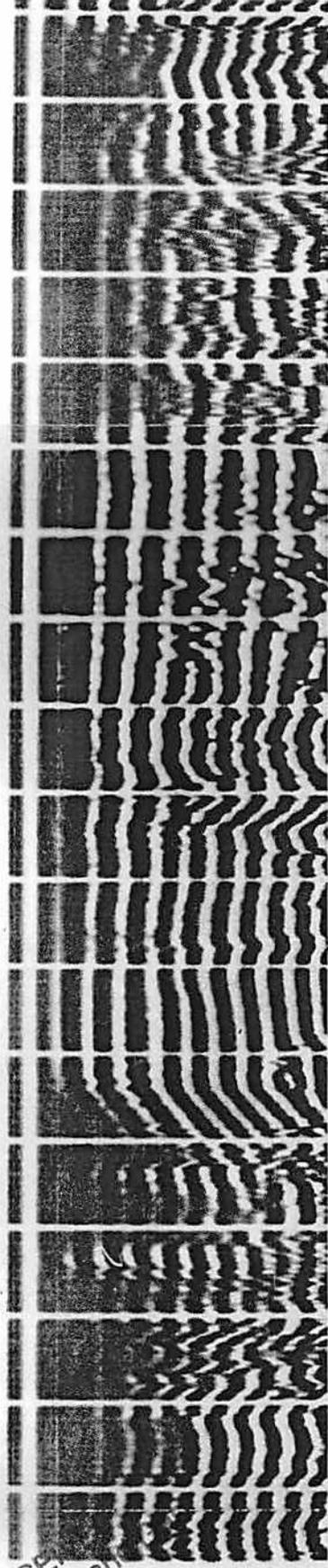
2100

10 HOLES

0 42 84  
API UNITS

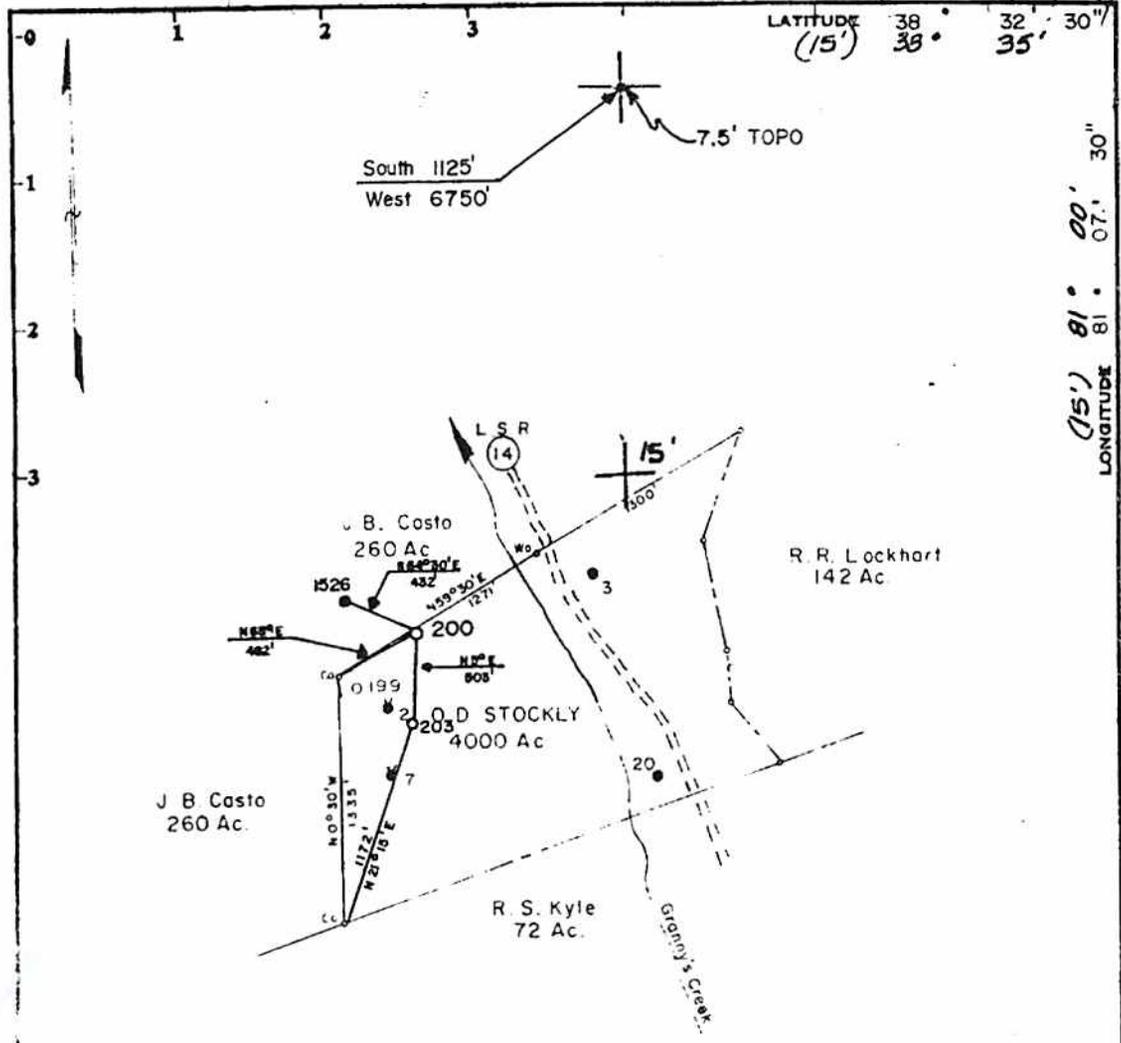
90 70 50 30 10  
100 80 60 40 20 0  
% BOND

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SECONDS



15 01630A

4/10/79



Surface -  
 RICHARD L. WHITE  
 OVAPA, WV

Minimum Error of Closure 1 in 200  
 Sources of Elevation J. B. Costo No. 1526, 1257.24'

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 S 62 E W 31

Company	PENNZOIL COMPANY
Address	P. O. Box 1588, Parkersburg, W. Va. 26101
Farm	O. D. STOCKLY
Lease	Acres 4000 Lease No. 60643-50
Well Name	No. 200 Serial No.
Elevation	Spirit Level 1165.14'
Quadrangle	NEWTON 7.5' OTTER 15'
County	CLAY District HENRY
Surveyor	CURTIS A. LUCAS
Surveyor's Registration No.	275
Map No.	640 Drawing No.
Date	6/18/79 Scale = 800'

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

**WELL LOCATION MAP**  
 FILE NO. **47-015-1630**

+ 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.

Savau 2030'

1501630A

WW-4A  
Revised 6-07

1) Date: January 30, 2014  
2) Operator's Well Number  
O.D. Stockly # 200

3) API Well No.: 47 - 015 - 01630

**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>David Jones</u>	Name <u>N/A</u>
Address <u>4081 Ovapa Road</u>	Address _____
<u>Procious, 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>	_____

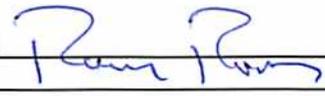
**TO THE PERSONS NAMED ABOVE: You should have received this Form and the following documents:**

- (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

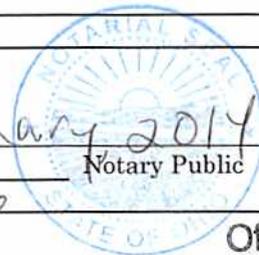
Marietta, Ohio 45750

Telephone (740) 374-2940

Subscribed and sworn before me this 30<sup>th</sup> day of January 2014

Elizabeth R. Teray Notary Public

My Commission Expires 2-27-16



ELIZABETH R. TERAY  
NOTARY PUBLIC  
in and For The State of Ohio  
My Commission Expires  
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Office of Oil and Gas

**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).

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WV Department of  
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David Jones  
 4081 Ovapa Rd  
 Procious, WV 25164

MARIETTA OH 45750  
 FEB 14 2014  
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4

RSR

O.D. Stockly # 5                      47-015-1644  
 "                      # 16                      47-015-1468  
 "                      # 200                      47-015-1636  
 "                      # 205                      47-015-1654

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WW-9  
Rev. 5/08

Page 1 of 2  
API Number 47 - 015 - 01630  
Operator's Well No. O.D. Stockly # 200

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 1142' 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.

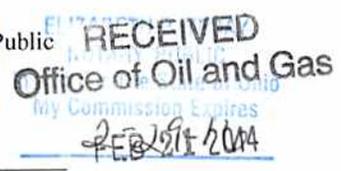
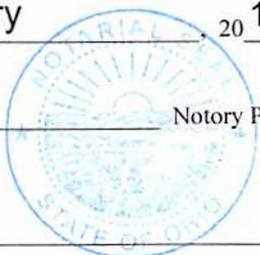
Company Official Signature *Rocky Roberts*

Company Official (Typed Name) Rocky Roberts

Company Official Title Senior V.P. Appalachian Operations

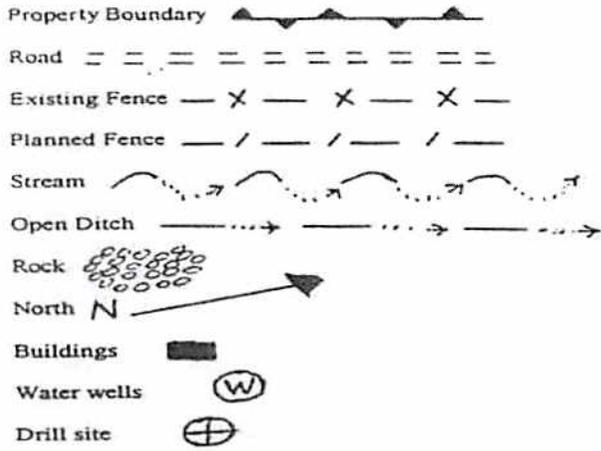
Subscribed and sworn before me this 30 day of January, 2014

*Elizabeth R. Seby*

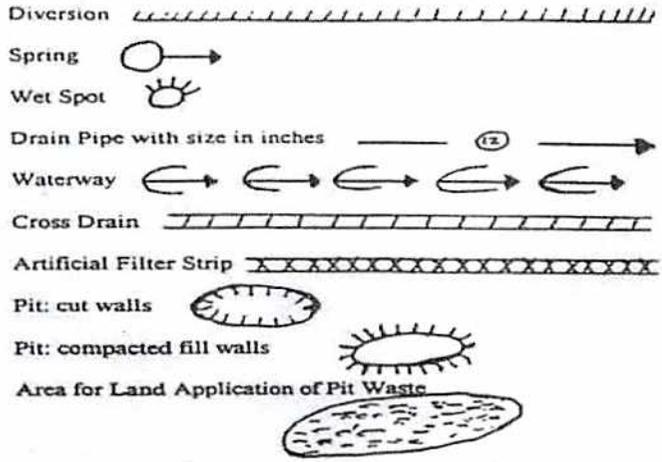


My commission expires 2-29-16

WV 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) 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: \_\_\_\_\_

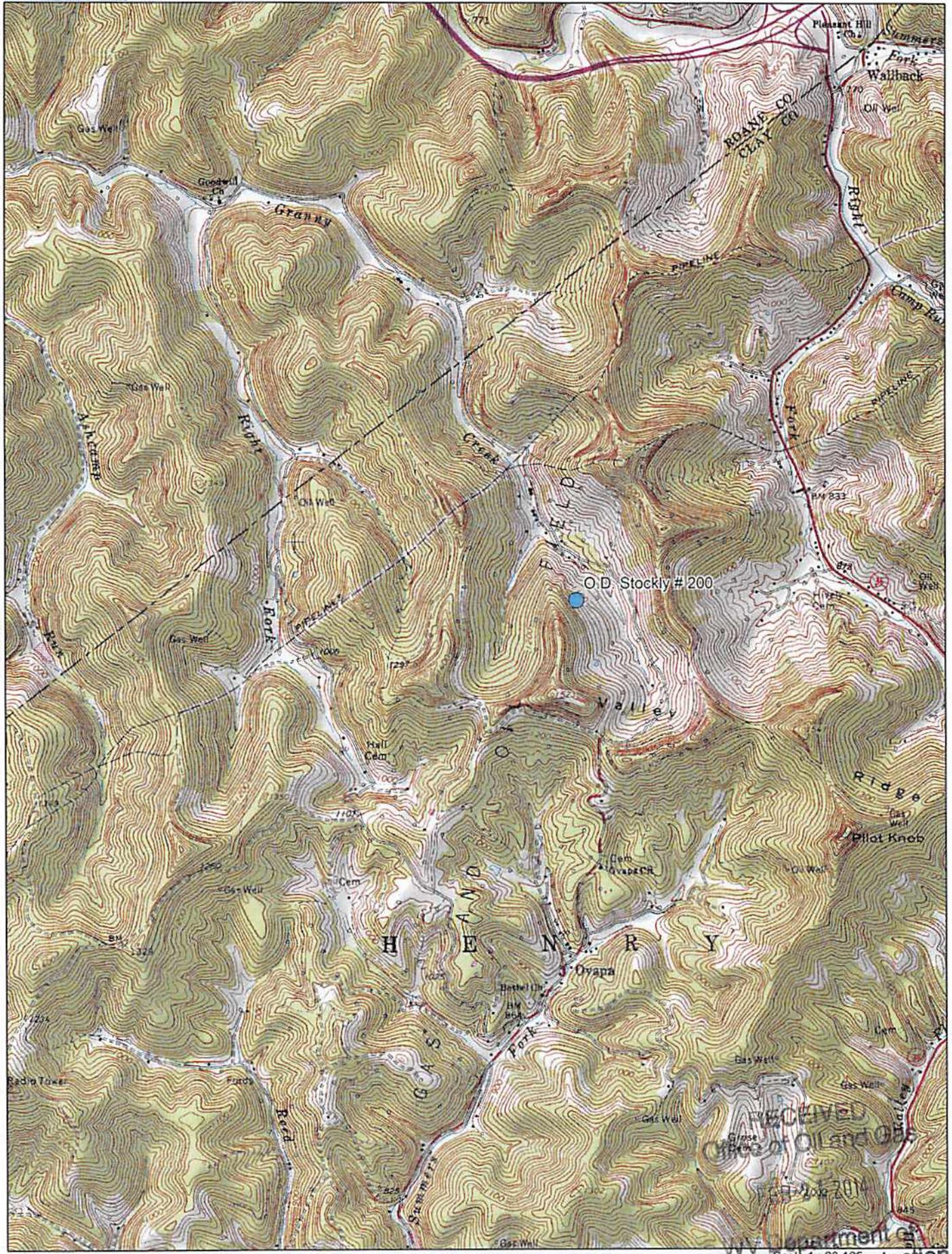
Title: Inspector

Date: 2/6/14

Field Reviewed? ( ) Yes ( X ) No

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 www.delorme.com



Scale 1 : 23,125  
 1" = 2,343.8 ft Data Zoom 12-7  
 Environmental Protection

1501630P

WW-7  
8-30-06



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

API: 47-015-01630 WELL NO.: 200

FARM NAME: O.D. Stockly

RESPONSIBLE PARTY NAME: Triad Hunter, LLC

COUNTY: Clay DISTRICT: Henry

QUADRANGLE: Newton

SURFACE OWNER: David Jones

ROYALTY OWNER: Black Stone Minerals LLP et al

UTM GPS NORTHING: 4265621

UTM GPS EASTING: 0487047 GPS ELEVATION: 1142'

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 X : Post Processed Differential \_\_\_\_

Real-Time Differential X

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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1/17/14  
Date

WV Department of  
Environmental Protection

1501630A



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 <input type="text" value="-81.148627146469"/>	<input type="button" value="&gt;&gt;"/>	x (easting) <input type="text" value="0487047"/>	O.D. Stockly #200
lat <input type="text" value="38.538906191981"/>	<input type="button" value="&lt;&lt;"/>	y (northing) <input type="text" value="4265621"/>	
		zone <input type="text" value="17"/>	
		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.*

Chuck Taylor -- ([Copyright](#)) -- ([Contact](#))

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