



**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

April 23, 2014


**WELL WORK PLUGGING PERMIT**

**Plugging**

This permit, API Well Number: 47-8702103, 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 #179

Farm Name: STOCKLEY, O. D.

**API Well Number: 47-8702103**

**Permit Type: Plugging**

Date Issued: 04/23/2014

**Promoting a healthy environment.**

**04/25/2014**

# 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.

## 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.

( 2014 )

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

Well Name : O.D. Stockly # 179

Permit Number: 47-087-02103

District: Geary

County: Roane

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. (1192-1082)
13. Displace cement through casing with gel water.
14. Pull 4 ½" casing to 100 feet below surface. *set 100 ft plug at bottom of surface csg - 270'-170'*
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.	Class A	30	35.4
4. Surface Plug	100 ft.	Class A	30	35.4
5. Totals:			<del>110 sacks</del> 140	<del>129.8 cu. ft.</del>

PERFORATIONS: 1893' - 1903' (20)

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Environmental ~~04/25/2014~~



WW-4B  
Rev. 2/01

1) Date January 30, 2014  
2) Operator's  
Well No. O.D. Stockly # 179  
3) API Well No. 47-087 - 02103

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 1132' GPS Watershed Grannys Creek  
District Geary 02 County Roane 97 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 9) Plugging Contractor Name N/A  
Address P.O. Box 821 Address \_\_\_\_\_  
Spencer, W.V. 25276

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

(SEE ATTACHED SHEET)

*See changes!*

*1/2 gal 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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Environmental Protection **04/25/2014**



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

**WELL RECORD**

Quadrangle Newton 7.5'  
Permit No. Roa-2103

Rotary  Oil \_\_\_\_\_  
Cable \_\_\_\_\_ Gas \_\_\_\_\_  
Recycling \_\_\_\_\_ Comb. \_\_\_\_\_  
Water Flood  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>	20-16			
Well No. <u>179</u> Elev. <u>1013.30'</u>	Cond.			
District <u>Geary</u> County <u>Roane</u>	13-10"			
The surface of tract is owned in fee by _____	9 5/8			
<u>J. W. Gandee</u>	8 5/8	219	219	125 sks.
Address <u>Ovapa, WV 25150</u>	7			
Mineral rights are owned by <u>Mr. Wm. Hack, Agt.</u>	5 1/2			
Address <u>City Bank, N.A., 399 Park Ave</u>	4 1/2	1972	1972	100 sks.
Drilling Commenced <u>7-8-78</u> <u>New York, N.Y.</u>	3			
Drilling Completed <u>7-11-78</u>	2			
Initial open flow _____ cu. ft. _____ bbls.	Liners Used			
Final production _____ cu. ft. per day _____ bbls.				
Well open _____ hrs. before test _____ RP.				

Well treatment details: Attach copy of cementing record.  
Fractured 11-9-78 w/152 BW, 1000# 20/40 sd., 150 Gal. 15% HCL  
Water Injection Well

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

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
Sand & Shale			0	148		
Shaley Sand			148	222		
Sand			222	288		
Shaley Sand			288	302		
Sand			302	360		
Shale			360	426		
Sand			426	586		
Shale			586	620		
Sand			620	648		
Shale			648	672		
Sand			672	744		
Shaley Sand			744	760		
Sand			760	774		
Shale			774	794		
Sand			794	866		
Shale			866	910		
Sand			910	948		
Shale			948	974		
Sand			974	984		
Shale			984	992		
Sand			992	1026		
Shale			1026	1034		
Shaley Sand			1034	1060		
Shale			1060	1074		

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(over)

\* Indicates Electric Log tops in the remarks section.

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
Sand			1074	1094		
Shale			1094	1140		
Sand			1140	1148		
Shaley Sand			1148	1218		
Sand			1218	1262		
Shaley Sand			1262	1326		
Sand			1326	1424		
Shale			1424	1432		
Sand			1432	1482		
Shaley Sand			1482	1510		
Sand			1510	1566		
Shale			1566	1572		
Sand			1572	1588		
Shale			1588	1600		
Sand			1600	1634		
Shale			1634	1670		
Shaley Sand			1670	1712		
Little Lime			1712	1750		
Pencil Cave			1750	1782		
Big Lime			1782	1818		
Loyalhanna			1818	1880		
Keener			1880	1890		
Big Injun			1890	1916		
Shale			1916	1948		
Squaw			1948	1968		
Shale			1968	1986		
Total Depth				1986		
Plug Back Depth				1960		

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*Noted 2-11-80  
hp*

Date 2-14

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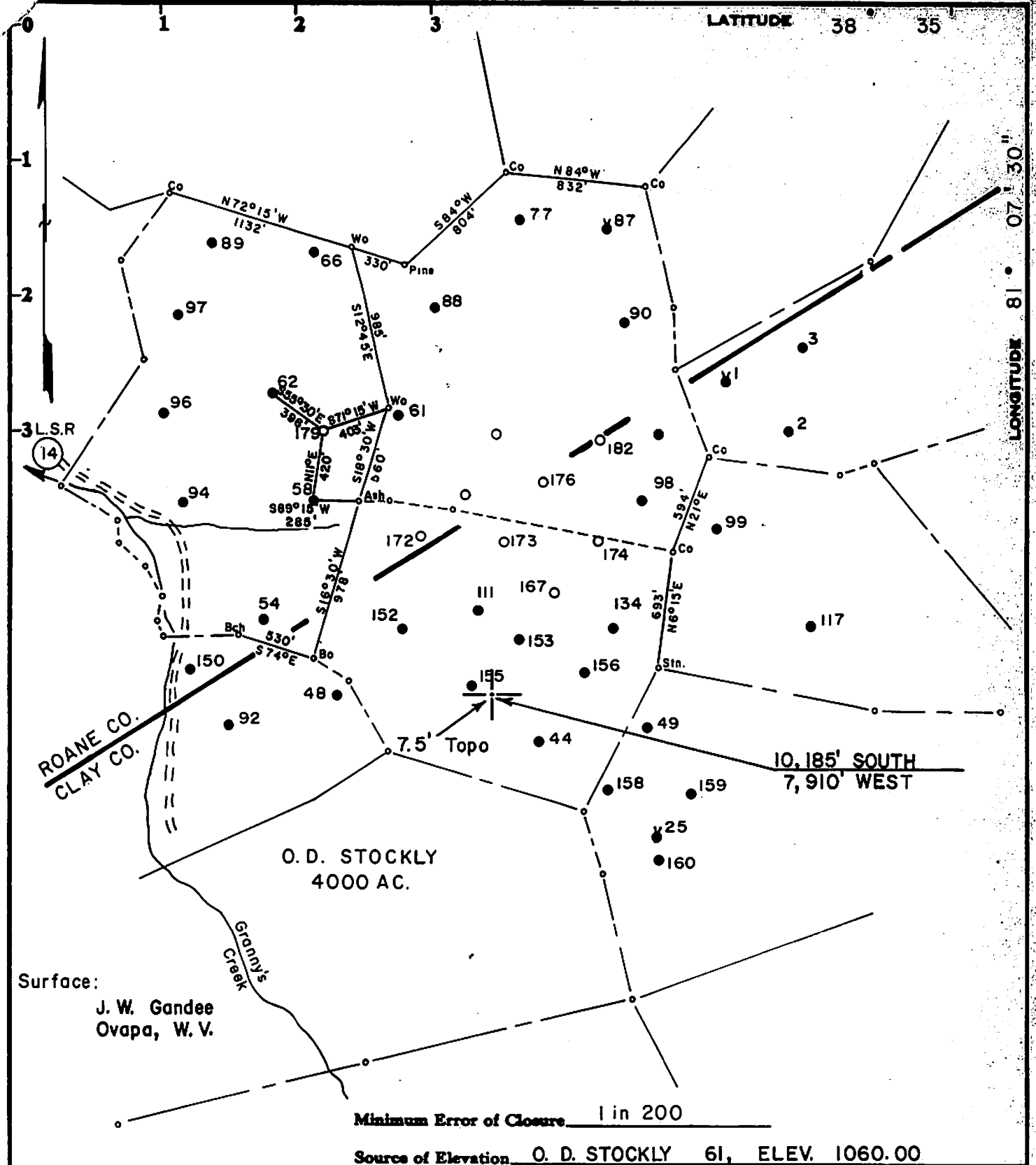
APPROVED Pennzoil Company Office of Oil and Gas

By Quinton G. L... FEB 24 2014

(Title) Eng. Dept.  
WV Department of  
Environmental Protection



8702103P



Minimum Error of Closure 1 in 200  
 Source of Elevation O. D. STOCKLY 61, ELEV. 1060.00

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 61 E W 31

- Fracture.....
- New Location.....  Injection
- Drill Deeper.....
- Abandonment.....

Company	PENNZOIL COMPANY
Address	P. O. Box 1588, Parkersburg, W. Va. 26101
Farm	O. D. STOCKLY
Tract	Acres <u>4000</u> Lease No. <u>60643-50</u>
Well (Farm) No.	<u>179</u> Serial No. _____
Elevation (Spirit Level)	<u>1013.30</u>
Quadrangle	<u>NEWTON 7.5'</u>
County	<u>ROANE</u> District <u>GEARY</u>
Surveyor	<u>CURTIS A. LUCAS</u>
Surveyor's Registration No.	<u>275</u>
File No.	<u>640</u> Drawing No. _____
Date	<u>MAY 17, 1978</u> Scale <u>1" = 800</u>

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

### WELL LOCATION MAP

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+ Denotes location of well on United States Topographic Maps, scale \_\_\_\_\_ and longitude lines being represented by border lines as shown.

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

WV Department of Environmental Protection

BRUNING 44 131 27198



# Basin Surveys, Inc.

PERFORATION DEPTH CONTROL

**FILING NO.**  
 PERMIT #  
 ROA-2103  
 47-087

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

**COMPANY** PENNZOIL COMPANY

**WELL** O.D. STOCKLY # 179

**FIELD** GEARY DISTRICT

**COUNTY** ROANE **STATE** W. VA.

**LOCATION:** GRANNY'S CREEK  
 QUAD: NEWTON 7 1/2'

**OTHER LOGS:**  
 GR/C DEN/CAL

**ELEVATIONS:**  
 KB. 1021.30  
 DF. 1020.30  
 GL. 1018.30

**PERMANENT DATUM** GROUND LEVEL **ELEV.** 1013.30

**LOG MEASURED FROM** CORRECTED TO K.B. 8' ABOVE P.D.

**DRILLING MEASURED FROM** K.B. 8' ABOVE P.D.

<b>DATE</b>	10-31-78
<b>RUN NO.</b>	ONE
<b>TYPE LOG</b>	GR/PDC
<b>DEPTH - DRILLER</b>	1985'
<b>DEPTH - LOGGER</b>	1925'
<b>BOTTOM LOGGED INTERVAL</b>	1924'
<b>TOP LOGGED INTERVAL</b>	1700'
<b>TYPE FLUID IN HOLE</b>	WATER
<b>SALINITY PPM CL.</b>	
<b>DENSITY LB./GAL.</b>	
<b>LEVEL</b>	FULL
<b>MAX. REC. TEMP. - DEG. F</b>	
<b>OPR. RIG TIME</b>	1 HR.
<b>RECORDED BY</b>	YOUNG
<b>WITNESSED BY</b>	MR. HELDMAN

RUN NO.	BORE HOLE RECORD			CASING RECORD			
	BIT	FROM	TO	SIZE	WGT.	FROM	TO
	7 7/8"	219'	1150'				
				8 5/8"		0'	219'
	6 3/4"	1150'	T.D.				
				4 1/2"		0'	T.D.

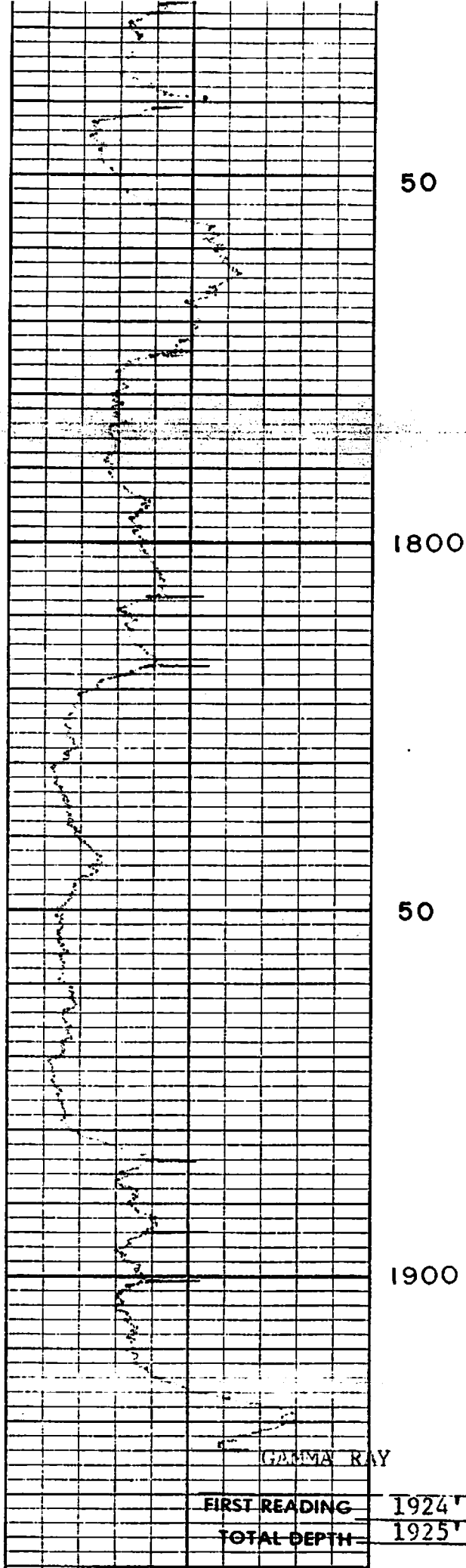
THIS HEADING AND LOG CONFORM TO API STANDARD PRACTICE RR-13 (REV. 10-1-73)

Office of Oil and Gas

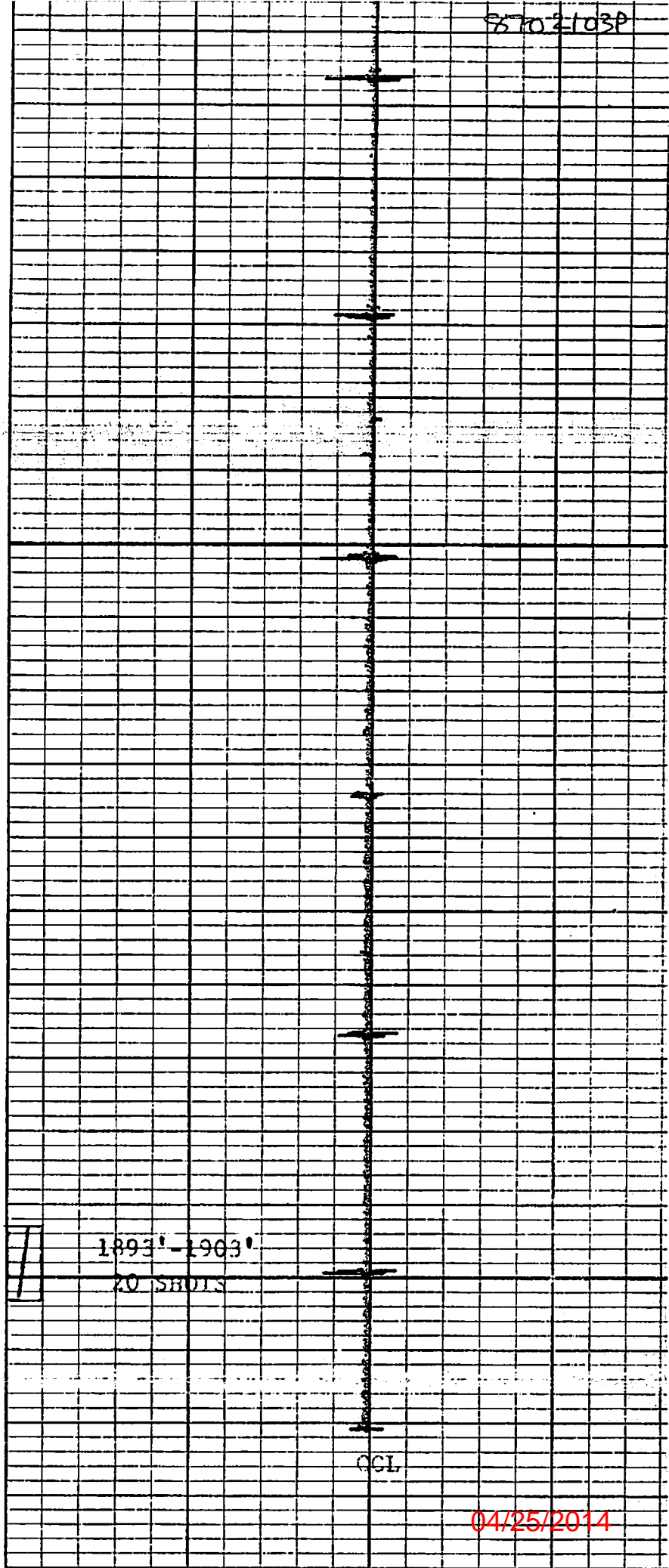
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WV Department of Environmental Affairs  
 04/25/2014





FIRST READING 1924'  
 TOTAL DEPTH 1925'



WW-4A  
Revised 6-07

1) Date: January 30, 2014  
2) Operator's Well Number  
O.D. Stockly # 179  
3) API Well No.: 47 - 087 - 02103

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>Charles Drake</u>	Name <u>N/A</u>
Address <u>2549 Grannys Creek 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 *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. Roby* 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).

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7011 1570 0001 5356 3815 5486 9665 1000 0257

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Postage	\$	
Certified Fee		
Return Receipt Fee (Endorsement Required)		
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Postmark Here: FEB 14 2014

USPS

Charles Drake  
 2549 Grannys Creek Rd  
 Ovapa, WV 25164

Instructions

4

O.P. Stockly # 178	47-087-2970
" # 179	47-087-2103
" # 186	47-087-2092
" # 193	47-087-2410

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04/25/2014



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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 1132' GPS County Roane District Geary

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]

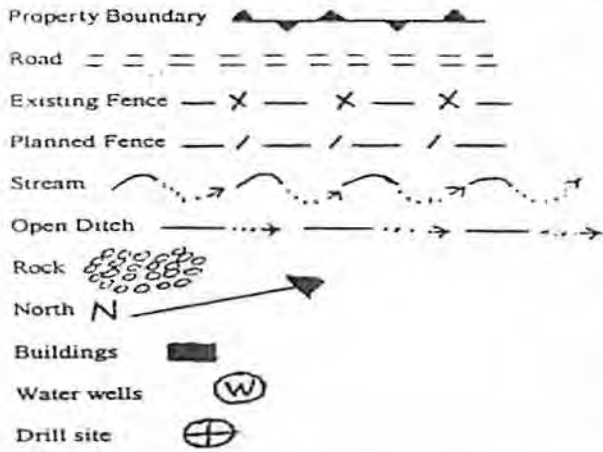


My commission expires 2-29-16

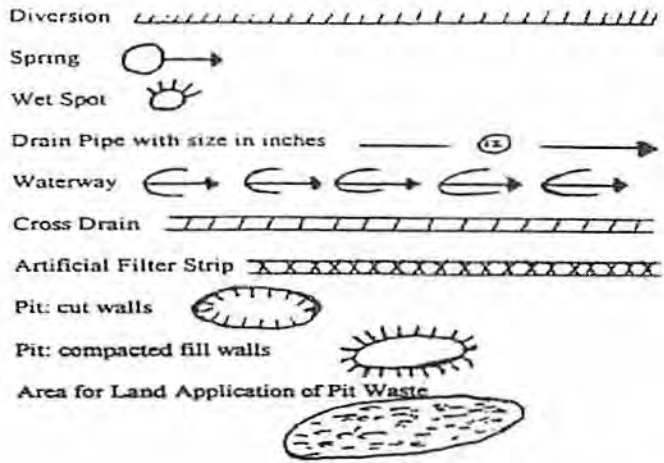
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**LEGEND**



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	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: 

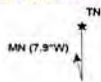
Comments: \_\_\_\_\_

Title: Inspector Date: 2/20/14

Field Reviewed? ( ) Yes ( X ) No



8702103P





WW-7  
8-30-06



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

API: 47-087-02103 WELL NO.: 179

FARM NAME: O.D. Stockly

RESPONSIBLE PARTY NAME: Triad Hunter, LLC

COUNTY: Roane DISTRICT: Geary

QUADRANGLE: Newton

SURFACE OWNER: Charles Drake

ROYALTY OWNER: Black Stone Minerals LLP et al

UTM GPS NORTHING: 4267413

UTM GPS EASTING: 0486693 GPS ELEVATION: 1132'

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 Smeltzer*  
Signature

Geologist  
Title

1/17/14 FEB 20 2014

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04/25/2014

8702103 P



# 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>-81.152723204429</u> [ >> ]	x (easting)	<u>0486693</u>	O.D. Stock ly # 179
lat <u>38.555050515376</u> [ << ]	y (northing)	<u>4267413</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.*

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

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