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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 28, 2014

**WELL WORK PLUGGING PERMIT**

**Plugging**

This permit, API Well Number: 47-1501174, 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: J.B. CASTO #103  
Farm Name: HAYNES, ROBERT  
**API Well Number: 47-1501174**  
**Permit Type: Plugging**  
Date Issued: 04/28/2014

**Promoting a healthy environment.**

**05/02/2014**

# 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.

WW-4B  
Rev. 2/01

1) Date January 30, 20 14  
2) Operator's  
Well No. J.B. Casto # 103  
3) API Well No. 47-015 - 01174

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 X or Underground storage \_\_\_ ) Deep \_\_\_ / Shallow X

5) Location: Elevation 1436' 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 charges!

6 1/2 gal between all plugs

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

Work order approved by inspector \_\_\_\_\_



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( 2014 )

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

Well Name : J.B. Casto # 103

Permit Number: 47-015-01174

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. *BHP (2417' - 2167')*
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. *ELEV. PLUG (1486-1336')*
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. *ELEV 1436'*
14. Pull 4 ½" casing to 100 feet below surface. *66.5 - 56.5 8 5/8 CASING SHOE PLUG*
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:			110 sacks	129.8 cu. ft.

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PERFORATIONS: 2365 - 2383

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1501174P

STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES

Oil and Gas Division

WELL RECORD

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

Quadrangle Otter  
Permit No. Cla-1174

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, W. Va. 26101</u>				
Farm <u>J. B. Casto</u> Acres <u>260</u>				
Location (waters) <u>Granny's Creek</u>	Size			
Well No. <u>103</u> Elev. <u>1443.92'</u>	<u>20-16</u>			
District <u>Henry</u> County <u>Clay</u>	Cond.			
The surface of tract is owned in fee by _____	<u>13-10"</u>			
<u>Mr. Ray E. King</u>	<u>9 5/8</u>			
Address <u>Ovapa, W. Va. 25150</u>	<u>8 5/8</u>	<u>613.10'</u>	<u>613.10'</u>	<u>395 sks.</u>
Mineral rights are owned by <u>Kanawha Banking &amp; Trust</u>	<u>7</u>			
gt. for <u>Roane</u> Ld. Address <u>P. O. Box 393, Charleston, W. Va.</u>	<u>5 1/2</u>			
Drilling Commenced <u>July 7, 1976</u>	<u>4 1/2</u>	<u>2434.23'</u>	<u>2434.23'</u>	<u>50 sks.</u>
Drilling Completed <u>July 12, 1976</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.

Water Injection Well

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

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
Shale			0	80		
Sand			80	98		
Shale			98	144		
Sand			144	198		
Shale			198	525		
Sand			525	560		
Shale			560	655		
Sand			655	790		
Siltstone			790	814		
Shale			814	843		
Sand			843	1022		
Shale			1022	1070		
Sand			1070	1092		
Shale			1092	1124		
Sand			1124	1194		
Siltstone			1194	1214		
Shale			1214	1366		
Silty Sand			1366	1400		
Shale			1400	1453		
Sand			1453	1469		
Shale			1469	1602		
Shaly Sand			1602	1698		
Shale			1698	1724		
Sand			1724	2179		

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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
Little Lime			2179	2211		
Blue Monday			2211	2249		
Big Lime			2249	2291		
Loyalhanna			2291	2362		
Big Injun			2362	2383		
Shale			2383	2419		
Squaw			2419	2438		
Shale			2438	2443		
Total Depth				2443		

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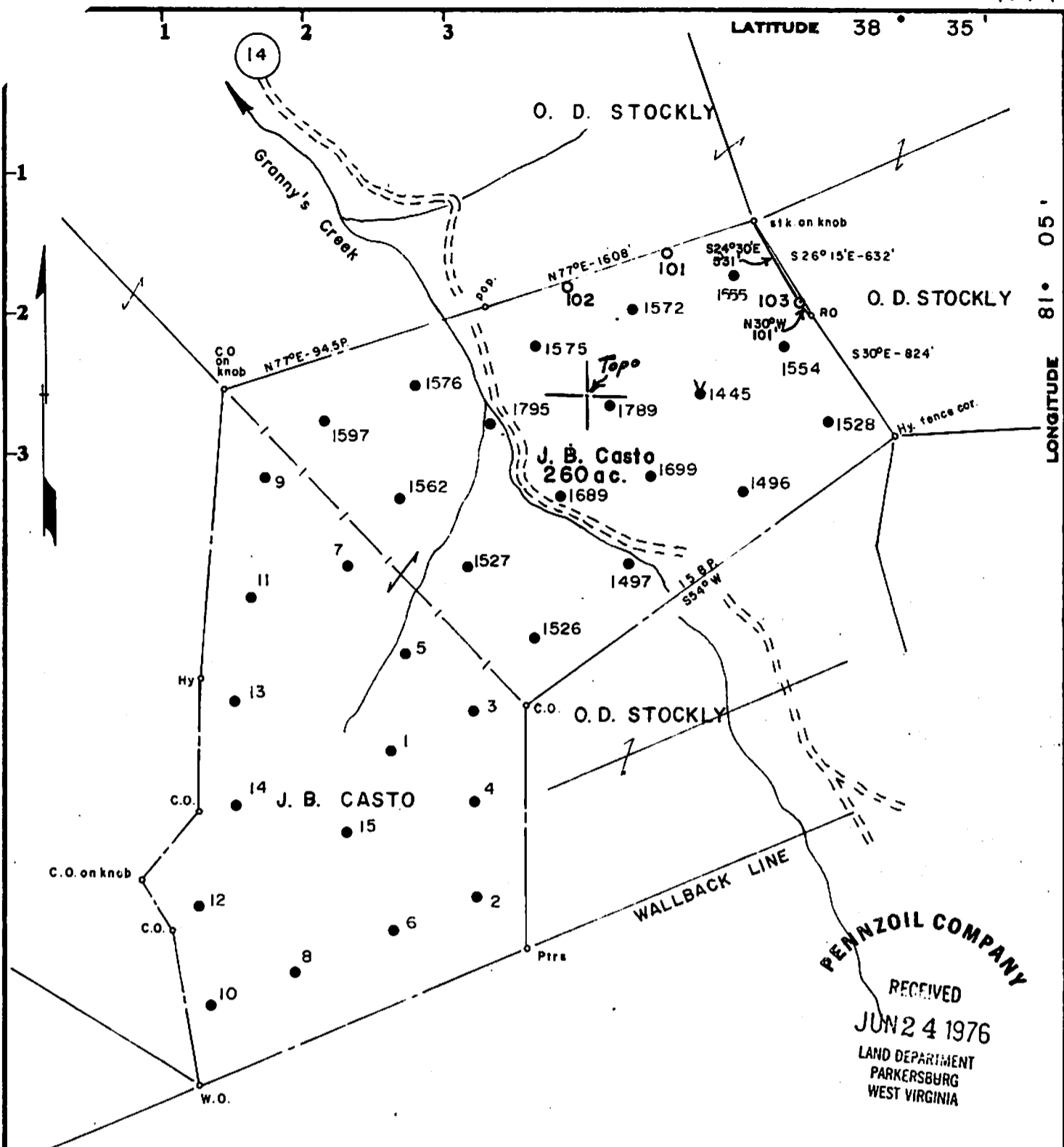
Date Nov. 12 1976 and Gas

APPROVED Pennzoil Company Owner

By Christine Ambrose

Environmental Protection Dept.

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 JUN 24 1976  
 LAND DEPARTMENT  
 PARKERSBURG  
 WEST VIRGINIA

SURFACE - R. E. KING  
 OVAPA, W. VA.  
 Minimum Error of Closure 1 in 200  
 Source of Elevation O. D. STOCKLY 139, Elev. 1536.37

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    S 62    E    W 31, 32

Company	PENNZOIL COMPANY
Address	P. O. Box 1588, Parkersburg, W. Va. 26101
Farm	J. B. CASTO
Tract	Acres <u>260</u> Lease No. <u>46485-up</u>
Well (Farm) No.	<u>103</u> Serial No. _____
Elevation (Spirit Level)	<u>1443.92</u>
Quadrangle	<u>OTTER 15'</u>
County	<u>CLAY</u> District <u>HENRY</u>
Surveyor	<u>CURTIS A. LUCAS</u>
Surveyor's Registration No.	<u>275</u>
File No.	<u>1626</u> Drawing No. _____
Date	<u>June 24, 1976</u> Scale <u>1" = 800'</u>

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

**WELL LOCATION MAP**

FILE NO. 05/02/2014

+ 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.

WV Department of Environmental Protection

BRUNING 44-131 27198



# McCullough®

## GAMMA RAY LOG

FILING NO.

HGR-83562

PENNZOIL CO.  
PETROLEUM ENG'G DEPT.  
FILE COPY

COMPANY PENNZOIL CO.

WELL J. B. CASTO #103

FIELD HENERY DISTRICT

COUNTY CLAY STATE W. VA.

LOCATION:  
GRANNY'S CR. OTTERS QUAD.

OTHER SERVICES:

SEC. TWP. RGE.

PERMANENT DATUM GL ELEV. 1443'

LOG MEASURED FROM KB

DRILLING MEASURED FROM RKB

ELEVATIONS:

KB. 1451'

DF.

GL. 1443'

DATE	<u>11-29-76</u>		
RUN NO.	<u>ONE</u>		
TYPE LOG	<u>GAMMA RAY</u>		
DEPTH - DRILLER			
DEPTH - LOGGER			
BOTTOM LOGGED INTERVAL	<u>2417'</u>		
TOP LOGGED INTERVAL	<u>2200'</u>		
TYPE FLUID IN HOLE	<u>DRY</u>		
SALINITY PPM CL.			
DENSITY LB./GAL.			
LEVEL			
MAX. REC. TEMP. DEG. F.			
OPR. RIG TIME			
RECORDED BY	<u>BUSBY</u>		
WITNESSED BY	<u>MR. McCOWN</u>		

RUN NO.	BORE HOLE RECORD				CASING RECORD			
	BIT	FROM	TO	SIZE	WGT.	FROM	TO	
				<u>4-1/2"</u>				

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THIS HEADING AND LOG CONFORMS TO API RECOMMENDED STANDARD PRACTICE RP-33 (F)  
CORRECTION DATA



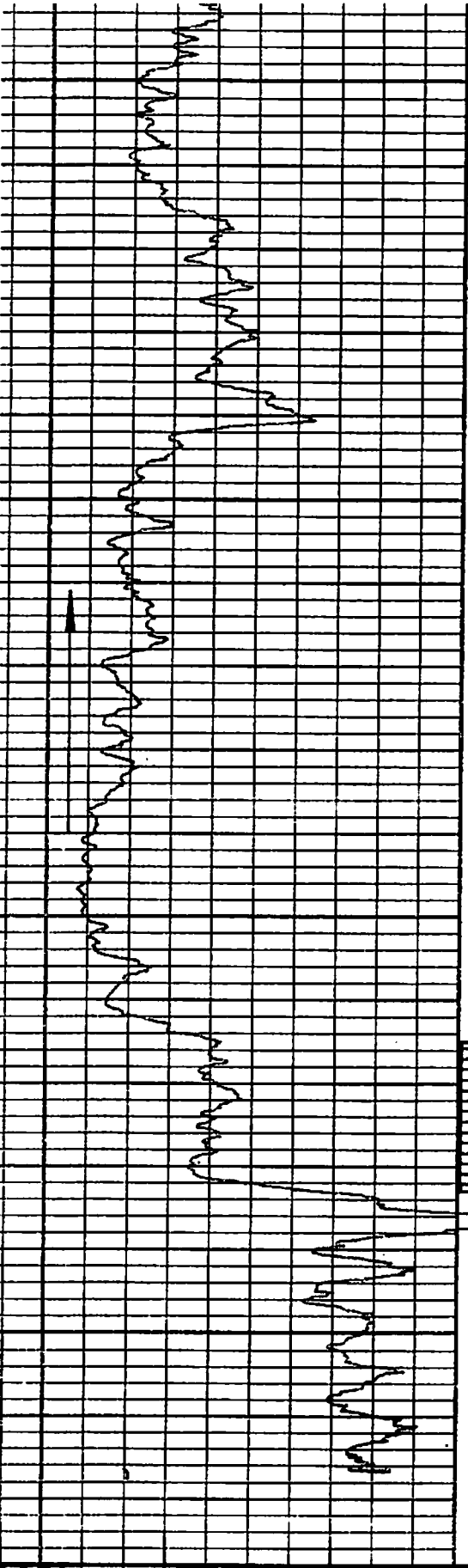
1501174P

2250

2300

2350

2400



0      56      112      168      224  
 API UNITS

LOG BOTTOM - 2417'

PENNZOIL CO.  
J. B. CASTO #103

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WW-4A  
Revised 6-07

1) Date: January 30, 2014  
2) Operator's Well Number  
J.B. Casto # 103  
3) API Well No.: 47 - 015 - 01174

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>Robert Haynes</u>	Name <u>N/A</u>
Address <u>4422 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 *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 30th day of January, 2014

Elizabeth P. Juby Notary Public

My Commission Expires 2-27-16



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 privacy policy or personal information, please contact DEP's Chief Privacy Officer at [depprivacyofficer@wv.gov](mailto:depprivacyofficer@wv.gov).

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7011 1570 0001 5396 3652  
2596 9665 T000 045T TT02

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Robert Haynes  
 4422 Ovapa Rd  
 Ovapa, WV 25164

Instructions

3



J.B. Casto # 101	47-015-1172
" # 102	47-015-1173
" # 103	47-015-1174

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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 1436' 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

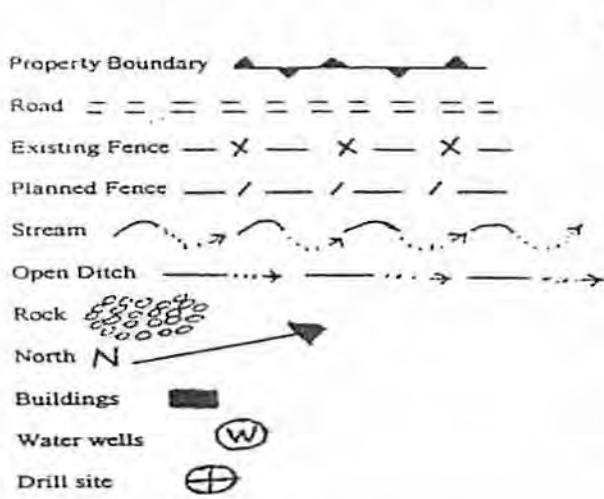
Company Official Title Senior V.P. Appalachian Operations

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

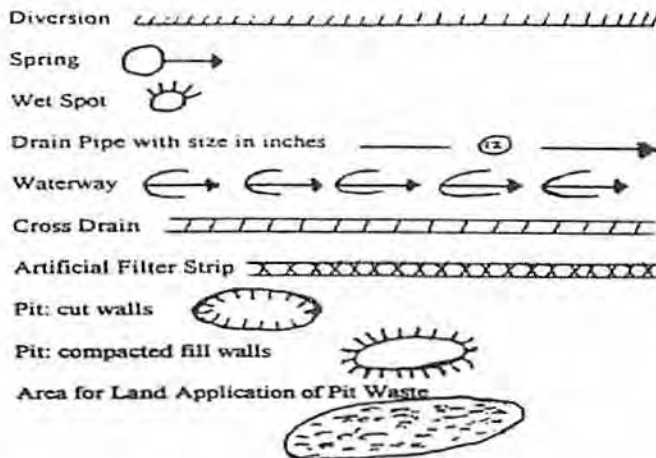
*Elizabeth R. Subey*

My commission expires 2-29-16





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: [Signature]  
Comments: \_\_\_\_\_

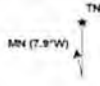
Title: Inspector Date: 2/4/14  
Field Reviewed? ( ) Yes ( X ) No

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 Data Zoom 12-6

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WW-7  
8-30-06



West Virginia Department of Environmental Protection  
Office of Oil and Gas

**WELL LOCATION FORM: GPS**

API: 47-015-01174 WELL NO.: 103

FARM NAME: J.B. Casto

RESPONSIBLE PARTY NAME: Triad Hunter, LLC

COUNTY: Clay DISTRICT: Henry

QUADRANGLE: Newton

SURFACE OWNER: Robert Haynes

ROYALTY OWNER: Kanawha Banking and Trust Co. et al

UTM GPS NORTHING: 4266251

UTM GPS EASTING: 0487373 GPS ELEVATION: 1436'

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.

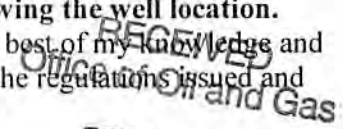
I the undersigned, hereby certify this data is correct to the best of my knowledge and belief and shows all the information required by law and the regulations issued and prescribed by the Office of Oil and Gas.

*Bar Smith*  
Signature

Geologist

WV Department of Environmental Protection  
Title

FEB 20 16/14  
Date





# 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="-81.144897913156"/>	<input style="border: none;" type="button" value=" &gt;&gt; "/>	x (easting) <input type="text" value="0487373"/>
lat <input type="text" value="38.544588463779"/>	<input style="border: none;" type="button" value=" &lt;&lt; "/>	y (northing) <input type="text" value="4266251"/>
		zone <input type="text" value="17"/>
		hemisphere <input checked="" type="radio"/> N <input type="radio"/> S

J. B. Casto # 103

*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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