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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

February 27, 2014

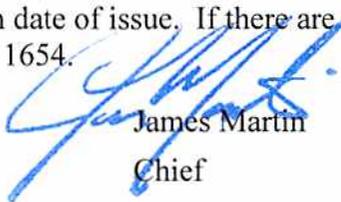
**WELL WORK PLUGGING PERMIT**

**Plugging**

This permit, API Well Number: 47-1501642, 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 #210  
Farm Name: O'DELL, DOUGLAS  
**API Well Number: 47-1501642**  
**Permit Type: Plugging**  
Date Issued: 02/27/2014

**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.

1) Date January 30, 2014  
2) Operator's  
Well No. O.D. Stockly # 210  
3) API Well No. 47-015 - 01642

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 1048' 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 9) Plugging Contractor  
Name Ed Gainer 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!

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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Office of Oil and Gas

Date FEB 20 2014

WV Department of  
Environmental Protection

( 2014 )

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

Well Name : O.D. Stockly # 210

Permit Number: 47-015-01642

PERFS.

District: Henry

County: Clay

1968 - 1978

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. (2058' - 1858')
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. *set 100 ft plug across bottom of surface casg. 275-175*
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.

13 a. →

Plug Summary

( Plug Name )	( Thickness )	( Cement Type )	( Sacks )	( Cubic Feet )
1. Bottom Hole	<del>250 ft.</del>	Class A	20	23.6 (2058' - 1858')
2. Cut Plug	100 ft.	Class A	30	35.4
3. Elevation Plug	100 ft.	Class A	30	35.4 (100' - 1000')
4. Surface Plug	100 ft.	Class A	30	35.4
5. Totals:			<del>110 sacks</del> 140	129.8 cu. ft.

13 a. →

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Environmental Protection

15016420

FORM 17-85  
(Obverse)

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

Date March 25, 1980

008-72

WELL OPERATOR'S REPORT  
OF

Well No. O.D. Stockly 210

API No. 47-015-1642

Drillwell, Trackwell and/or Stimwell, for physical change

WELL TYPE: Oil  Gas  Liquid Injection  Waste Disposal   
(If "Gas", Production  Underground storage  Deep  Shallow )

LOCATION: Elevation: 1059.23' 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 Address P. O. Box 1588  
Parkersburg, WV 26101 Parkersburg, WV 26101

PERMITTED WORK: Drill  Convert  Drill deeper  Re-drill  Fracture or stimulate   
Plug off old formation  Perforate new formation   
Other physical change in well (specify) \_\_\_\_\_

PERMIT ISSUED ON July 10, 19 79

OIL & GAS INSPECTOR FOR THIS WORK:

(IF APPLICABLE: PLUGGING OF DRY HOLE OR CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED \_\_\_\_\_, 19 \_\_\_\_\_)

Name Martin Nichols  
Address P. O. Box 554  
Clendenin, WV

GEOLOGICAL TARGET FORMATION: Squaw Depth 2047 feet

Depth of completed well, 2058 feet Rotary  Cable Tools

Water strata depth: Fresh, \_\_\_\_\_ feet; salt, \_\_\_\_\_ feet.

Coal seam depths: \_\_\_\_\_ Is coal being mined in the area? No

Work was commenced August 14, 19 79, and completed January 3, 19 80

CASING AND TUBING PROGRAM

CASING OR TUBING TYPE	SPECIFICATIONS				FOOTAGE INTERVALS		CEMENT FILL-UP OR SACKS (Cubic feet)	PACKERS
	Size	Grade	Weight per ft	New	Used	For drilling		
Conductor								Kinds
Fresh water								
Coal	8-5/8					226	226	130 sks Sizes
Intermediate								
Production	4-1/2					2052	2052	150 sks Deaths set
Tubing								
Liners								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 in

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FORM W-33  
(Reverse)

[08-78]

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

Fractured: 1-3-80 w/250 gal. 15% HCL, 150BW, 1000#20/40 sd.

WELL LOG

FORMATION	Color	Hard or Soft	Top Feet	Bottom Feet	Remarks Including indication of all fres and salt water, coal, oil and ga
Sand & Shale			0	686	
Shaley Sand			686	700	
Sand & Shale			700	1764	
Little Lime			1764	1806	
Blue Monday			1806	1820	
Big Lime			1820	1890	
Loyalhanna			1890	1956	
Big Injun			1956	1988	
Shale			1988	2018	
Squaw			2018	2036	
Shale			2036	2058	
Total Depth				2058	

(Attach separate sheets to complete as necessary)

Pennzoil Company

Well Operator

By

*Clinton A. Lujan*

xxx

Civil Engineering Dept.

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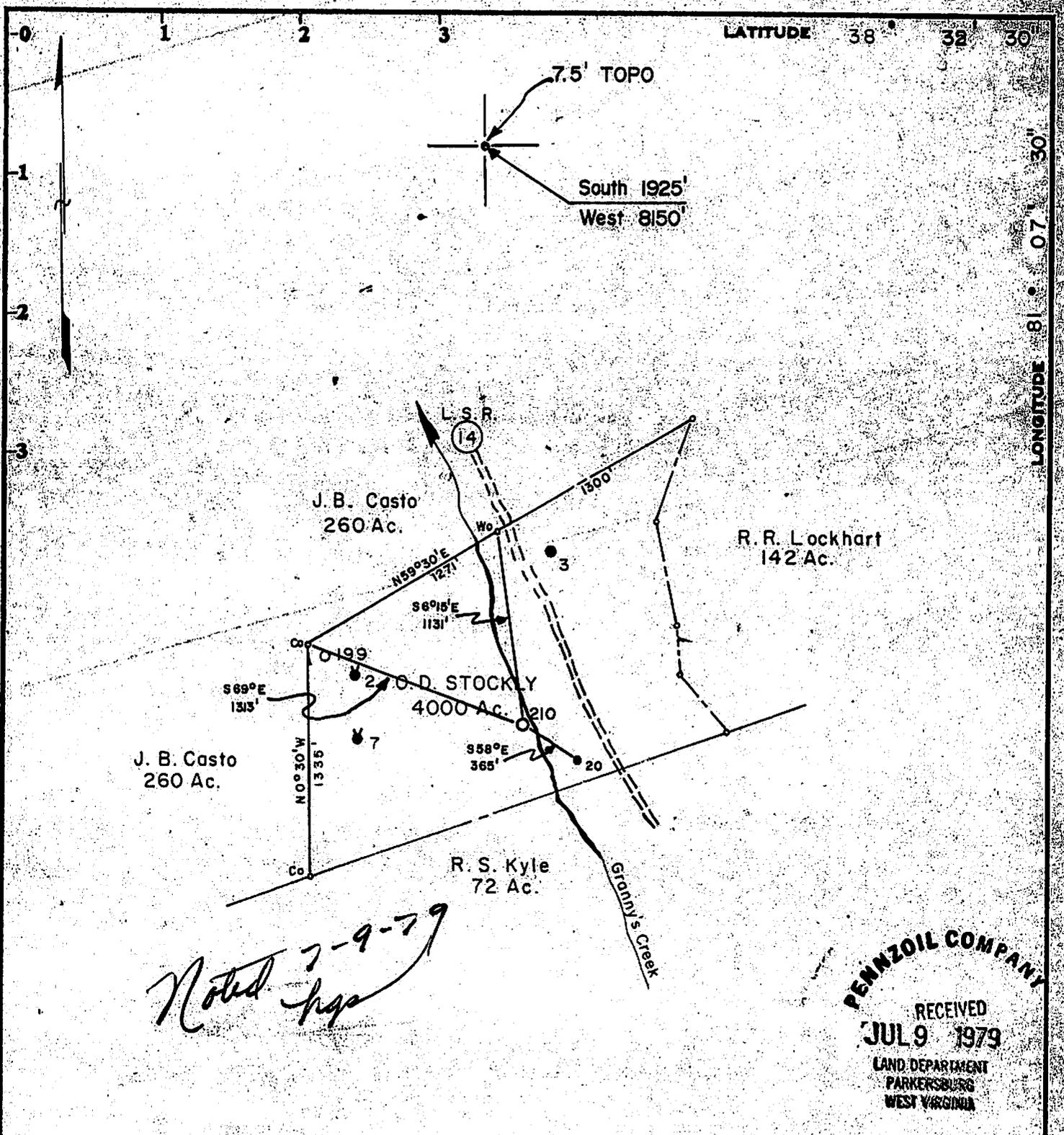
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NOTE: Regulation 2.034(i) provides as follows:

"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."

1501642P



**PENNZOIL COMPANY**  
 RECEIVED  
**JUL 9 1979**  
 LAND DEPARTMENT  
 PARKERSBURG  
 WEST VIRGINIA

Surface-  
 O. T. White  
 Ovapa, WV

Minimum Error of Closure 1 in 200  
 Source of Elevation O.D. STOCKLY 20, ELEV. 1082'

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

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.	210	Serial No.
Elevation (Spirit Level)	1059.23'	
Quadrangle	NEWTON 75'	
County	CLAY	District HENRY
Surveyor	CURTIS A. LUCAS	
Surveyor's Registration No.	275	
File No.	640	Drawing No.
Date	7/9/79	Scale 1" = 800'

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

**WELL LOCATION MAP**

FILE NO. \_\_\_\_\_  
 RECEIVED

+ 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

# N McCullough

BOND CEMENT AND-OR SONIC SEISMOGRAM LOG

GAMMA RAY

FILING NO.

HBC-GR-SS-99057

COMPANY PENNZOIL COMPANY

WELL O.D. STOCKLEY #210

FIELD

COUNTY CLAY STATE WEST VIRGINIA

LOCATION

OTHER SERVICES:

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

SEC. TWP. RGE.

ELEVATIONS:

PERMANENT DATUM GL ELEV. 1059'

KB 1067'

LOG MEASURED FROM KB

DF.

DRILLING MEASURED FROM KB

GL 1059'

DATE 8-24-79

RUN NO. ONE

TYPE LOG BOND CEMENT-GAMMA RAY-SONIC SEISMOGRAM

DEPTH-DRILLER 2055'

DEPTH-LOGGER 2030'

BOTTOM LOGGED INTERVAL 2026'

TOP LOGGED INTERVAL 1150'

TYPE FLUID IN HOLE WATER

SALINITY PPM CL.

DENSITY LB./GAL.

LEVEL FULL

MAX. REC. TEMP. DEG. F.

OPR. RIG TIME

RECORDED BY MYNES

WITNESSED BY MR. HEILMAN

RUN NO.	BORE HOLE RECORD			CASING RECORD			
	BIT	FROM	TO	SIZE	WGT.	FROM	TO
1				8-5/8"		0	230'
	7-7/8"	230'	1355'	4-1/2"		0	TD
	6-3/4"	1355'	TD				

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

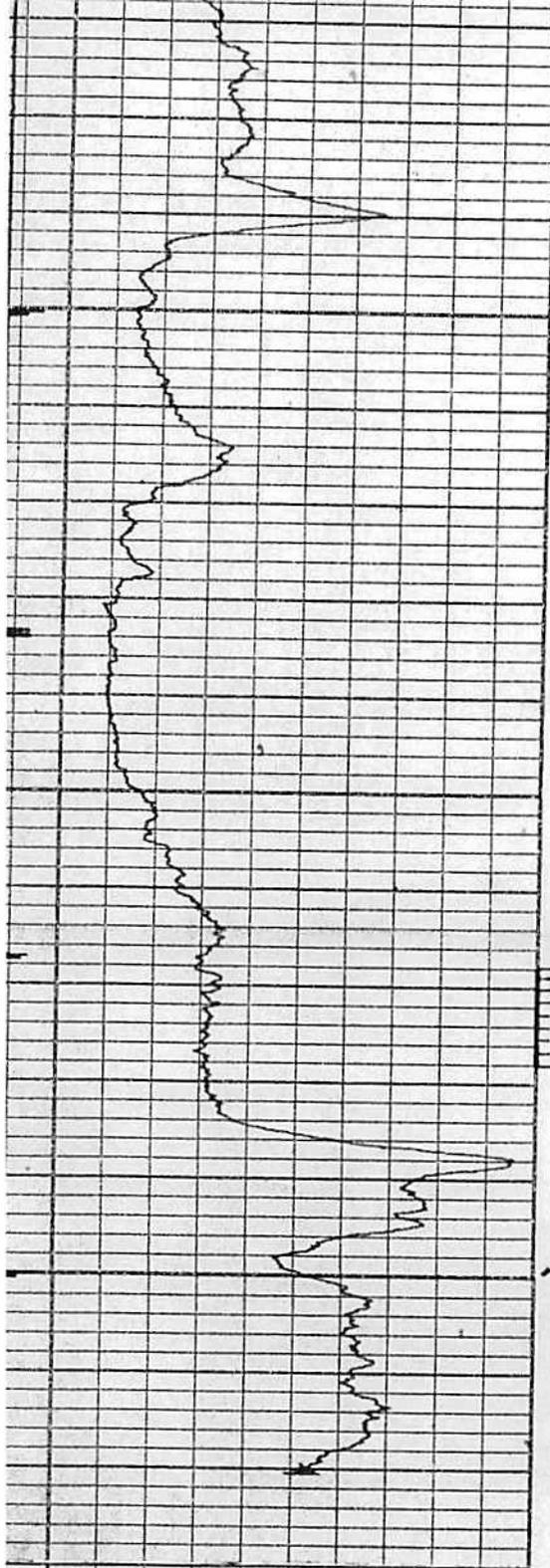
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Environmental Protection

1561642P

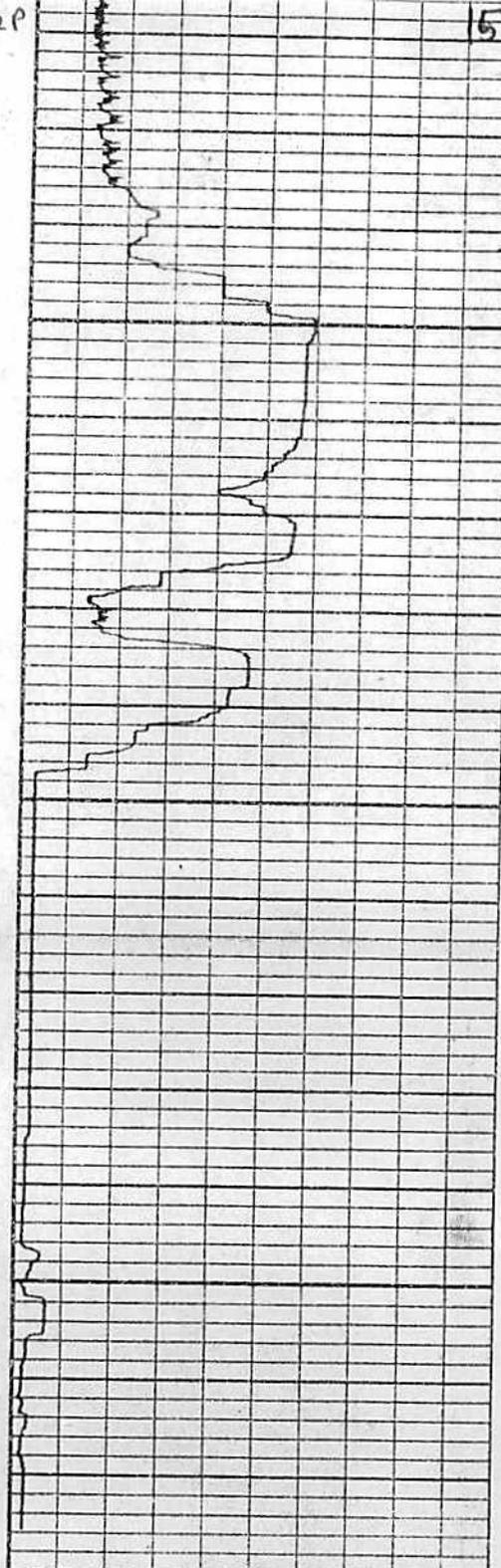
15016



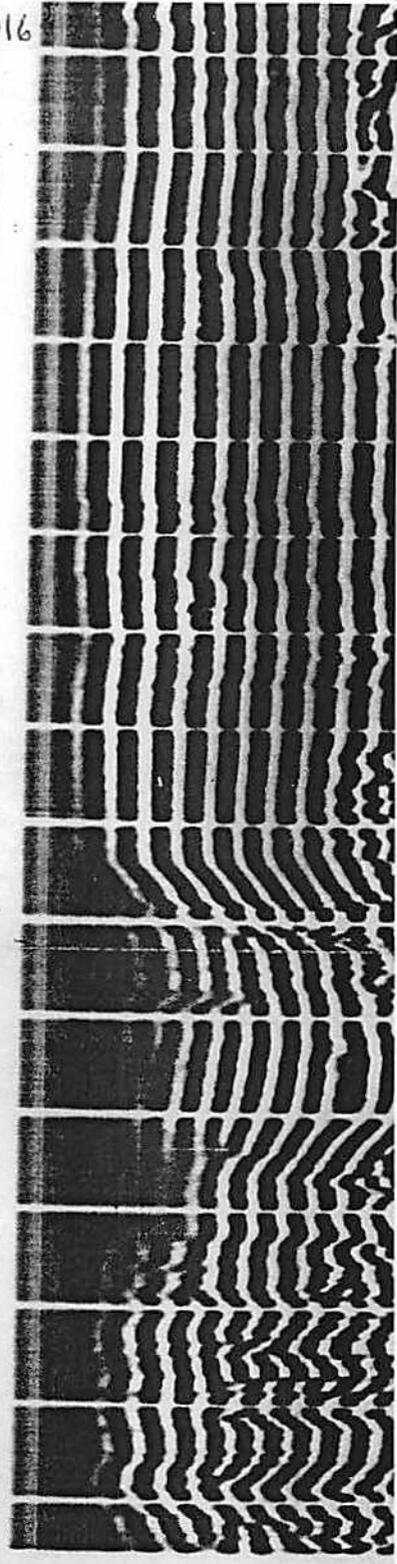
1900

1950

2000



KODAK SAFETY FILM



0 84 168  
API UNITS

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

200 MICROSECONDS

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FEB 20 2014

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Environmental Protection

LOG BOTTOM - 2026'  
PENNZOIL CO.  
O. D. STOCKLEY #210

WW-4A  
Revised 6-07

1) Date: January 30, 2014  
2) Operator's Well Number  
O.D. Stockly # 210  
3) API Well No.: 47 - 015 - 01642

**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>	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.

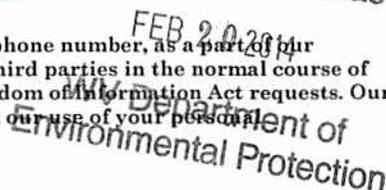
Well Operator Triad Hunter, LLC  
 By: Rocky Roberts  
 Its: Senior V.P. Appalachian Operations  
 Address 125 Putnam Street  
Marietta, Ohio 45750  
 Telephone (740) 374-2940

Subscribed and sworn before me this 30<sup>th</sup> day of January, 2014  
Elizabeth R. Tebay 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 [depprivacyofficer@wv.gov](mailto:depprivacyofficer@wv.gov).



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 Street, A  
 or PO Box  
 City, Sta

Douglas O'dell  
 3781 Ovapa Rd  
 Procious, WV 25164

Postmark Here  
 FEB 18 2014  
 MARIETTA OH 43060  
 US-5

PS Form 3800

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 47-015-1817

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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 1048' 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.

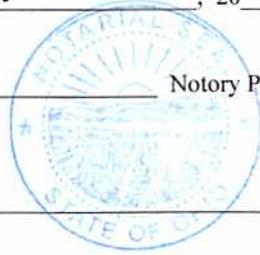
Company Official Signature *Rocky Roberts*

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

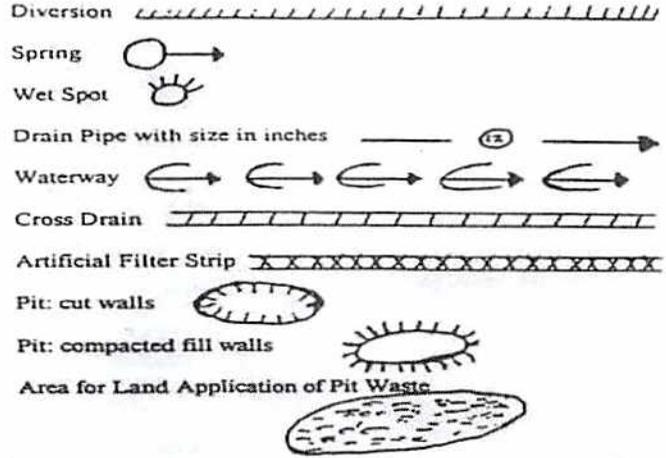
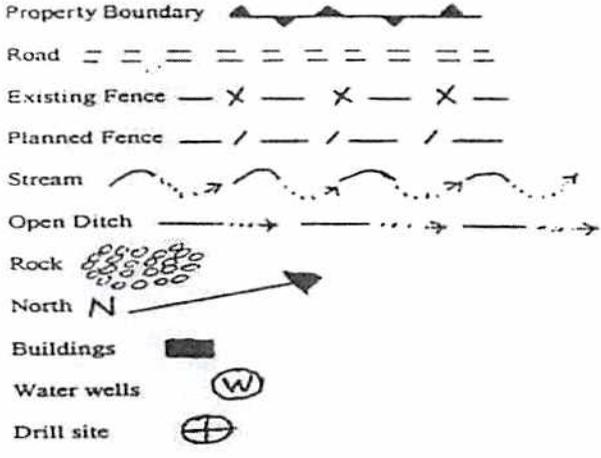
*Elizabeth R. Sebey*



Notary Public  
Elizabeth R. Sebey  
In and for the State of Ohio  
My Commission Expires  
2-29-16

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	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 (  ) No



WW-7  
8-30-06



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

API: 47-015-01642 WELL NO.: 210

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: 4265446

UTM GPS EASTING: 0487290 GPS ELEVATION: 1048'

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.

*Tom Hunter*  
Signature

Geologist  
Title

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Office of Oil and Gas  
FEB 20 2014  
1/17/14  
WV Department of  
Environmental Protection  
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="-81.145835705581"/>	[ >> ]	x (easting) <input type="text" value="0487290"/>	O.D. Stockly #210
lat <input type="text" value="38.537332590776"/>	[ << ]	y (northing) <input type="text" value="4265446"/>	
		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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