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

February 28, 2014

WELL WORK PLUGGING PERMIT

Plugging

This permit, API Well Number: 47-1501819, 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 penalities 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 #217
Farm Name: O'DELL, DOUGLAS
API Well Number: 47-1501819
Permit Type: Plugging
Date Issued: 02/28/2014

Promoting a healthy environment.

1501819P

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

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.

1501819 P

WW-4B
Rev. 2/01

1) Date January 30, 2014
2) Operator's
Well No. O.D. Stockly # 217
3) API Well No. 47- 015 - 01819

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 1173' GPS
District Henry 02
Watershed Grannys Creek
County Clay 15
Quadrangle Newton 512

6) Well Operator Triad Hunter, LLC
Address 125 Putnam Street
Marietta, Ohio 45750

7) Designated Agent Kim Arnold
Address P.O. Box 154
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.

RECEIVED
Office of Oil and Gas
FEB 20 2014
WV Department of
Environmental Protection

Work order approved by inspector Inspector Date 2/4/14

1501819P

(2014)

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

Well Name : O.D. Stockly # 217 Permit Number: 47-015-01819

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 1st 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.
13a. Set 100 ft plug across bottom of surface csg. 430 - 330
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	(2161' - 1961')
2.	Cut Plug	100 ft.	Class A	30	35.4	
3.	Elevation Plug	100 ft.	Class A	30	35.4	(1232' - 1132')
3a - 4.	Csg shoe Surface Plug	100 100 ft.	Class A	30 30	35.4	(433' - 333')
5.	**Totals:**			~~110 sacks~~ 140	**129.8 cu. ft.**	

RECEIVED
Office of Oil and Gas
FEB 20 2014
WV Department of
Environmental Protection

1501819P

OG-10
Rev. - 9-71

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

Oil and Gas Division

WELL RECORD

Rotary X Oil X
Cable ____ Gas ____
Recycling ____ Comb. ____
Water Flood X Storage ____
Disposal ____ ____ (Kind)

Quadrangle Newton 7.5'

Permit No. 47-015-1819

Company Pennzoil Company
Address P. O. Box 1588, Parkersburg, WV 26101
Farm O. D. Stockly Acres 4000
Location (waters) Grannys Creek
Well No. 217 Elev. 1181.93'
District Henry County Clay
The surface of tract is owned in fee by
O. T. White
Address Clay, WV
Mineral rights are owned by Daniel Kahan
Address P. O. Box 559, Tulsa, Okla.
Drilling Commenced 10-11-80
Drilling Completed 10-15-80
Initial open flow W.I.W. cu. ft. ____ bbls.
Final production ____ cu. ft. per day ____ bbls.
Well open ____ hrs. before test ____ RP.

Casing and Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft. (Sks.)
Size 20-16 Cond.			
13-10"			
9 5/8			
8 5/8	383	383	225 sks.
7			
5 1/2			
4 1/2	2160	2160	75 sks.
3			
2			
Liners Used			

Attach copy of cementing record.

Well treatment details:
Water Injection Well

Coal was encountered at ____ Feet ____ Inches
Fresh water ____ Feet ____ Salt Water ____ Feet ____
Producing Sand ____ Depth ____

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
Sand & Shale			0	482		
Shale			482	542		
Sand			542	633		
Shale & Sand			633	1893		
Little Lime			1893	1938		
Pencil Cave			1938	1957		
Big Lime			1957	2002		
Loyalhanna			2002	2082		
Big Injun			2082	2112		
Shale			2112	2138		
Squaw			2138	2152		
Shale			2152	2161		
Total Depth				2161		

RECEIVED
Office of Oil and Gas
FEB 20 2014
WV Department of
Environmental Protection

1501819P

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks

RECEIVED
Office of Oil and Gas
FEB 20 2014
WV Department of
Environmental Protection

Date July 31

APPROVED PENNZOIL COMPANY Owner
Supervisor, Surveying & Mapping

1501819P

Basin Surveys, Inc.

COMPENSATED FORMATION DENSITY LOG

FILING NO.

PERMIT NO. CLAY-1819

PENNZOIL CO. PETROLEUM ENGR. DEPT. FILE COPY

COMPANY PENNZOIL COMPANY

WELL O.D. STOCKLEY #217

FIELD HENRY DISTRICT

COUNTY CLAY STATE W.V.

LOCATION: GRANNY'S CREEK QUAD: NEWTON 7.5'

SEC. TWP. RGE.

OTHER LOGS: NONE

PERMANENT DATUM GROUND LEVEL ELEV. 1181'

LOG MEASURED FROM KELLY BUSHING 8' A.F.D.

DRILLING MEASURED FROM KELLY BUSHING

ELEVATIONS: KB. 1189.9 DF. 1188' GL. 1181'

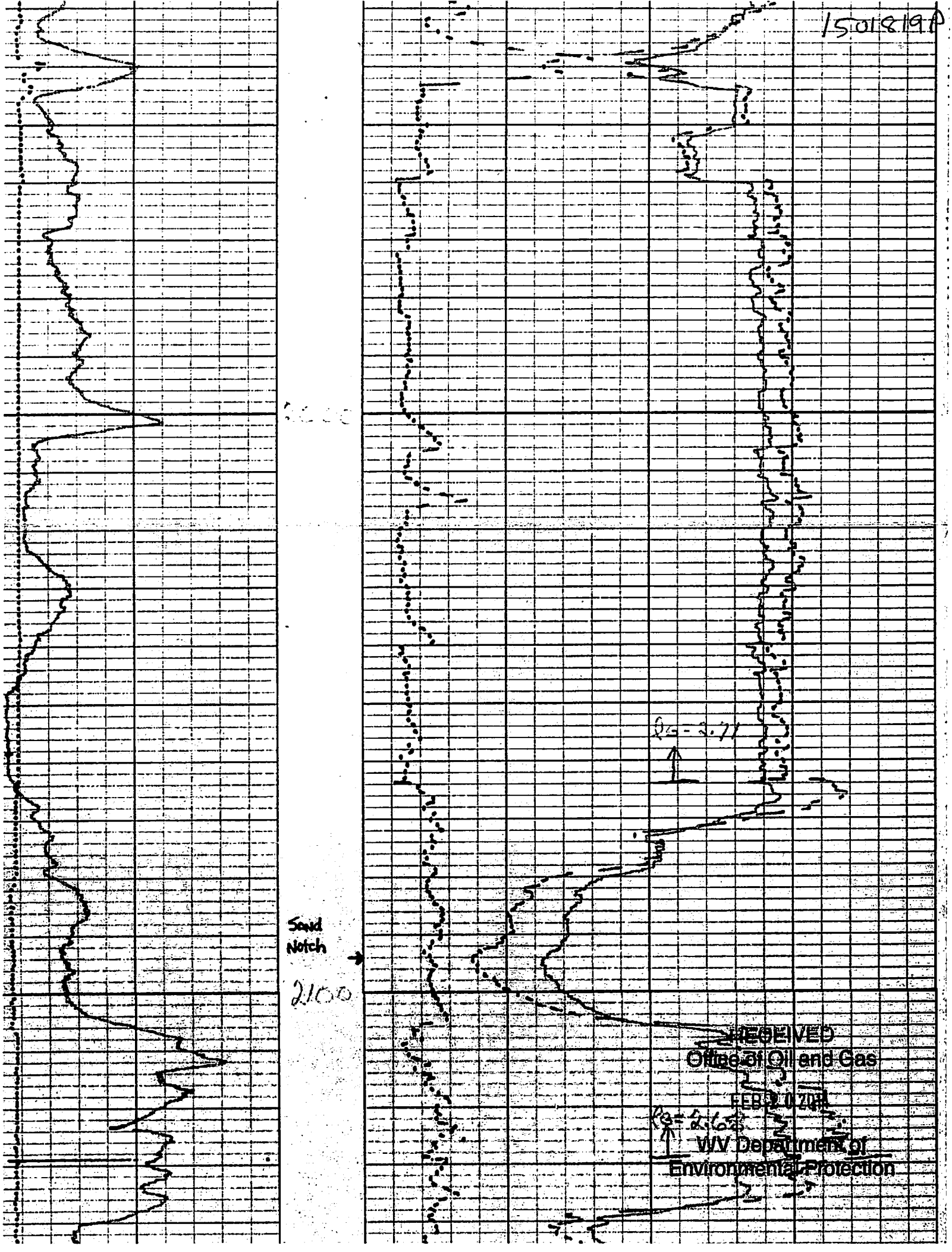
DATE	15 OCTOBER 80		
RUN NO.	ONE		
TYPE LOG	F.D.C.-CAL.		
DEPTH – DRILLER	2165'		
DEPTH – LOGGER	2161'		
BOTTOM LOGGED INTERVAL	2160'		
TOP LOGGED INTERVAL	SURFACE		
TYPE FLUID IN HOLE	MUD		
SALINITY PPM CL.			
DENSITY LB./GAL.			
LEVEL			
MAX. REC. TEMP. – DEG. F			
OPR. RIG TIME	8 HRS.		
RECORDED BY	E. CLAUS		
WITNESSED BY	MR. HELDMAN		

RUN NO.	BORE HOLE RECORD			CASING RECORD			
	BIT	FROM	TO	SIZE	WGT.	FROM	TO
ONE	6 3/4"	2161'	450'	7"		450'	SURFACE

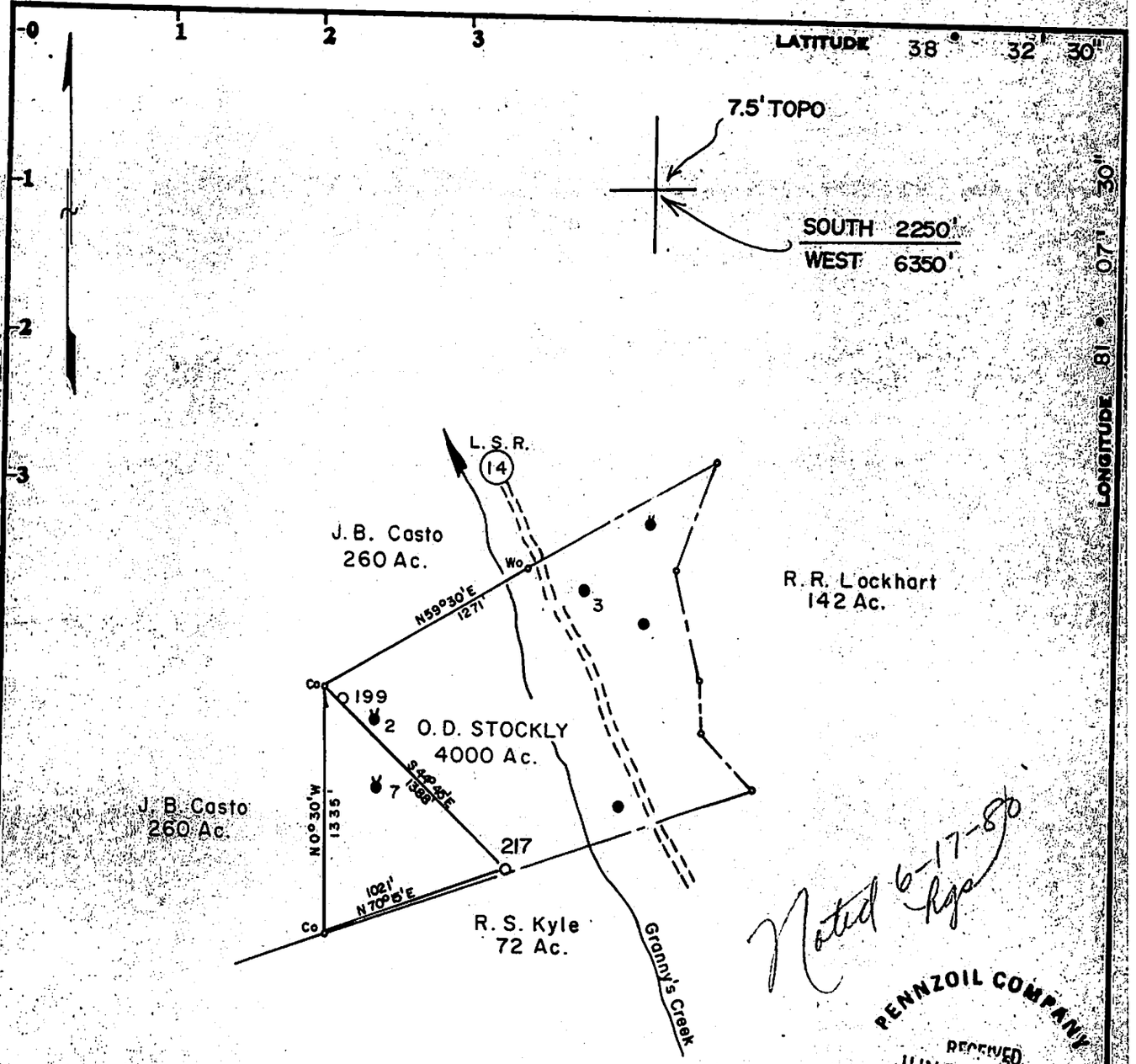
THIS HEADING AND LOG CONFORM TO API STANDARD PRACTICE RP 33 ®

RECEIVED
Office of Oil and Gas
FEB 20 2014
WV Department of
Environmental Protection

RECEIVED
Office of Oil and Gas
FEB 20 2014
WV Department of
Environmental Protection


1501819P
Sand Notch
2100
RECEIVED
Office of Oil and Gas
FEB 20 2014
WV Department of
Environmental Protection

1501819A



Noted 6-17-80

PENNZOIL COMPANY
RECEIVED
JUN 16 1980
LAND DEPARTMENT
PARKERSBURG
WEST VIRGINIA

Surface-
O.T. White
Ovapa, W.V

Minimum Error of Closure 1 in 200

Source of Elevation O.D. STOCKLY NO. 7, ELEV. 1392.00'

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
Tract ____ Acres 4000 Lease No. 60643-50
Well (Farm) No. 217 Serial No. ____
Elevation (Spirit Level) 1181.93'
Quadrangle NEWTON 7.5'
County CLAY District HENRY
Surveyor CURTIS A. LUCAS
Surveyor's Registration No. 275
File No. 640 Drawing No. ____
Date 6/16/80 Scale 1" = 800'

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

WELL LOCATION MAP

FILE NO. ____

RECEIVED
Office of Oil and Gas
FEB 2 0 2014
WV Department of Environmental Protection

+ Denotes location of well on United States Topographic Maps, scale 1 to 62,500, latitude and longitude lines being represented by border lines as shown.

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

BRUNING 44-131 27198

1501819P

WW-4A
Revised 6-07

1) Date: January 30, 2014
2) Operator's Well Number
O.D. Stockly # 217

3) API Well No.: 47 - 015 - 01819

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS
NOTICE 0F APPLICATION TO PLUG AND ABANDON A WELL

4) Surface Owner(s) to be served:
(a) Name Douglas O'dell
Address 3781 Ovapa Road
Procious, W.V. 25164
(b) Name
Address
(c) Name
Address

5) (a) Coal Operator
Name N/A
Address
(b) Coal Owner(s) with Declaration
Name N/A
Address
Name
Address
(c) Coal Lessee with Declaration
Name N/A
Address

6) Inspector Ed Gainer
Address P.O. Box 821
Spencer, W.V. 25276
Telephone (304) 389-7582

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

RECEIVED
Office of Oil and Gas
FEB 20 2014
WV Department of
Environmental Protection

Subscribed and sworn before me this 30th day of January, 2014
Elizabeth R Leb 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.

1501819P

7009 1410 0002 0831 6903

U.S. Postal Service™
CERTIFIED MAIL™ RECEIPT
(Domestic Mail Only; No Insurance Coverage Provided)
For delivery information visit our website at www.usps.com®
OFFICIAL USE

Postage	$
Certified Fee	
Return Receipt Fee (Endorsement Required)	
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	$

MARIETTA OH 45750
FEB 14 2014
Postmark Here
USPS

Sent To Douglas O'dell
Street, Apt. No., or PO Box No. 3781 Ovapa Rd
City, State, ZIP+4 Procious, WV 25164

PS Form 3800, August 2006 See Reverse for Instructions

(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

RECEIVED
Office of Oil and Gas
FEB 20 2014
WV Department of
Environmental Protection

1501819 P

WW-9
Rev. 5/08

API Number 47 - 015 - 01819
Operator's Well No. O.D. Stockly # 217

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 1173' 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 Dispposal (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, 20 14

Elizabeth R Seby Notory Public

My commission expires 2-29-16

RECEIVED
Office of Oil and Gas
FEB 20 2014
WV Department of
Environmental Protection

1501819P

Form WW-9

Operator's Well No. O.D.Stockly # 217

LEGEND

Property Boundary
Road
Existing Fence
Planned Fence
Stream
Open Ditch
Rock
North N
Buildings
Water wells W
Drill site

Diversion
Spring
Wet Spot
Drain Pipe with size in inches 12
Waterway
Cross Drain
Artificial Filter Strip
Pit: cut walls
Pit: compacted fill walls
Area for Land Application of Pit Waste

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

Area I Seed Type	lbs/acre	Area II Seed Type	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

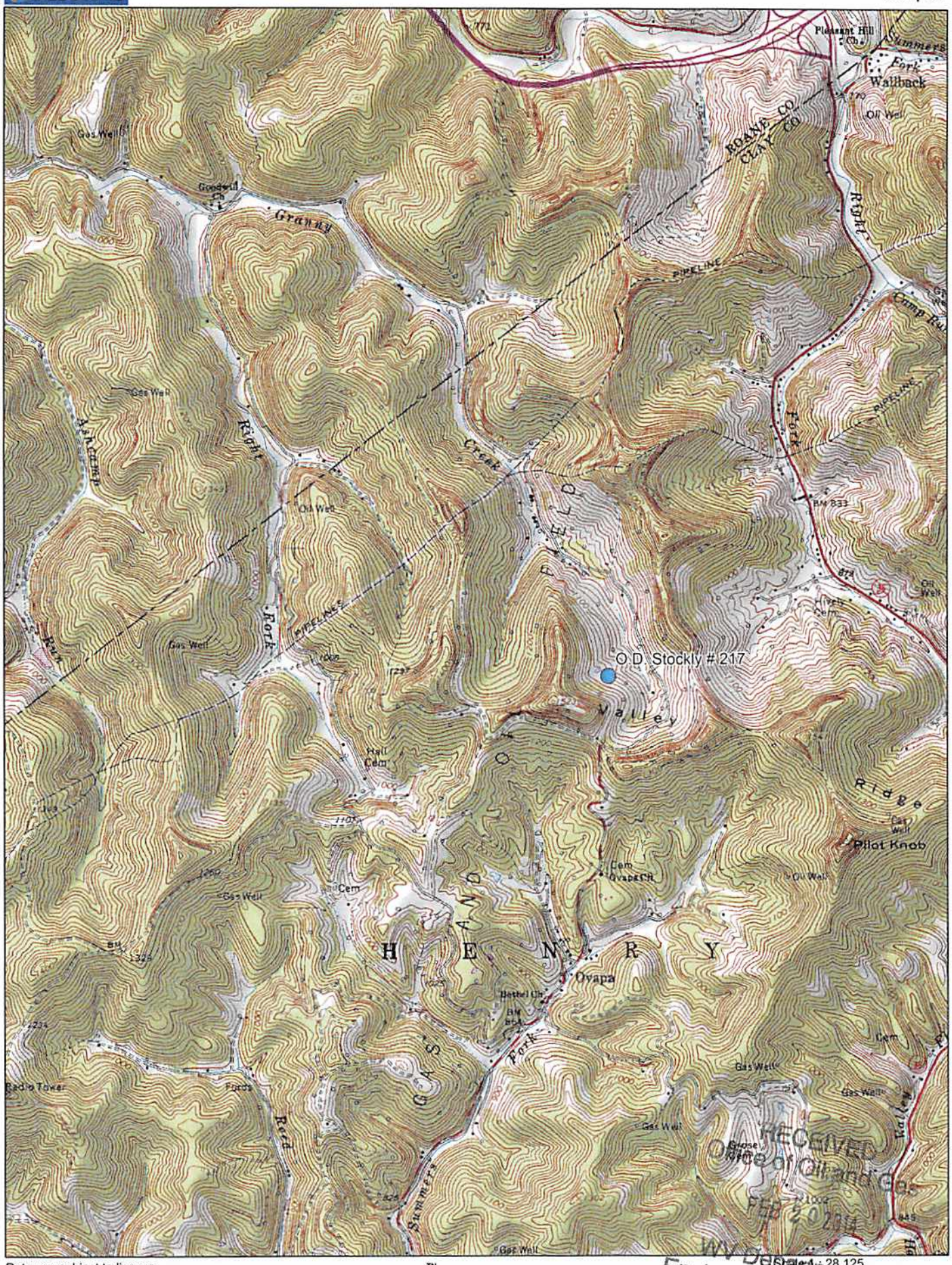
Field Reviewed? ( ) Yes (X) No

RECEIVED
Office of Oil and Gas
FEB 20 2014
WV Department of
Environmental Protection

1501819P

DELORME

XMap® 7



RECEIVED
Office of Oil and Gas
FEB 20 2014
WV Department of
Environmental Protection

Data use subject to license.

© DeLorme. XMap® 7.

www.delorme.com

TN

MN (7.9°W)

Scale 1 : 28,125

1" = 2,343.8 ft

Data Zoom 12-7

1501819P

WW-7
8-30-06

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

API: 47-015-01819 WELL NO.: 217

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: 4265245

UTM GPS EASTING: 0487218 GPS ELEVATION: 1173'

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.

RECEIVED
Office of Oil and Gas
FEB 20 2014
WV Department of
Environmental Protection

Signature Geologist Title 1/17/14 Date

Site Map

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 theCoordinate and Datum Transformations tool.

Geographic (*degrees decimal*)		To/From		UTM
lon	-81.146658159831	>>	x (easting)	0487218
lat	38.5355201379618	<<	y (northing)	4265245
			zone	17
			hemisphere	N S

O.D. Stockly # 217

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)

RECEIVED
Office of Oil and Gas
FEB 20 2014
WV Department of
Environmental Protection