



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 27, 2014

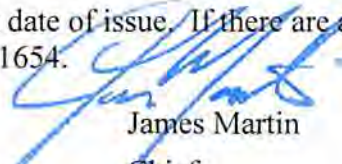
WELL WORK PLUGGING PERMIT

Plugging

This permit, API Well Number: 47-1501820, 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 #216
Farm Name: O'DELL, DOUGLAS
API Well Number: 47-1501820
Permit Type: Plugging
Date Issued: 02/27/2014

Promoting a healthy environment.

02/28/2014

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

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.

1501820 P

WW-4B
Rev. 2/01

1) Date January 30, 2014
2) Operator's
Well No. O.D. Stockly # 216
3) API Well No. 47-015 - 01820

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 1241' 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 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!

6% gel between all plugs

RECEIVED

Office of Oil and Gas

FEB 20 2014

WV Department of
Environmental Protection

Work order approved by inspector



Date

2/4/14

02/28/2014

(2014)

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

Well Name : O.D. Stockly # 216

Permit Number: 47-015-01820

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.^(2259'-2059')
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 100ft plug across bottom of surface csg. 510-410} 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 ^(2259' - 2059')
2. Cut Plug	100 ft.	Class A	30	35.4
3. Elevation Plug	100 ft.	Class A	30	35.4 ^(1320' - 1220')
3a. → ^{csg shoe} 4. Surface Plug	100 ft.	Class A	30	35.4 ^{39. (507' - 407')}
5. Totals:			110 sacks	129.8 cu. ft.

RECEIVED
Office of Oil and Gas

FEB 20 2014

WV Department of
Environmental Protection
02/28/2014



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
Oil and Gas Division
WELL RECORD

Quadrangle Newton 7.5'
Permit No. 47-G15-1820

Rotary X Oil ~~✓~~
Cable _____ Gas _____
Recycling _____ Comb. _____
Water Flood X Storage _____
Disposal _____ (Kind)

Company Pennzoil Company
Address P. O. Box 1588, Parkersburg, WV 26101
Farm O. D. Stockly Acres 4000
Location (waters) Grannys Creek
Well No. 216 Elev. 1269.44'
District Henry County Clay
The surface of tract is owned in fee by _____
O. T. White
Address Ovapa, WV
Mineral rights are owned by Daniel Kahan
Address P.O. Box 559, Tulsa, Okla.
Drilling Commenced 10-16-80
Drilling Completed 10-23-80
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	457	457	285 sks.
7			
5 1/2			
4 1/2	2251	2251	75 sks.
3			
2			
Liners Used			

Well treatment details:
Water Injection Well

Attach copy of cementing record.

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	356		
Sand			356	376		
Shale			376	436		
Sand			436	572		
Shale & Sand			572	1980		
Little Lime			1980	2032		
Blue Monday			2032	2054		
Big Lime			2054	2094		
Loyalhanna			2094	2157		
Keener			2157	2170		
Big Injun			2170	2196		
Shale			2196	2226		
Squaw			2226	2259		
Total Depth				2259		

RECEIVED 02/28/2014
Office of Oil and Gas
FEB 20 2014
WV Department of
Environmental Protection

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

02/28/2014

RECEIVED
Office of Oil and Gas

FEB 20 2014

Date July 31 2014
 APPROVED: Austin [Signature] Supervisor, Surveying & Mapping
 Department of Environmental Protection
 Owner



Basin Surveys, Inc.

COMPENSATED FORMATION DENSITY LOG

FILE NO.
PERMIT NO.
 CLAY 1820
 PENNZOIL CO.
 WILLIAM ENGR. DIST.
 FIELD COPY

COMPANY PENNZOIL COMPANY
WELL O.D. STOCKLY #216
FIELD HENRY DISTRICT
COUNTY CLAY **STATE** W.VA.

LOCATION: GRANNYS CREEK
QUAD: NEWTON 7.5'
 S 62 W 31 MAP # 83
SEC. **TWP.** **RGE.**

OTHER LOGS:
ELEVATIONS:
 KB. 1279.44'
 DF. 1278.44'
 GL. 1269.44'

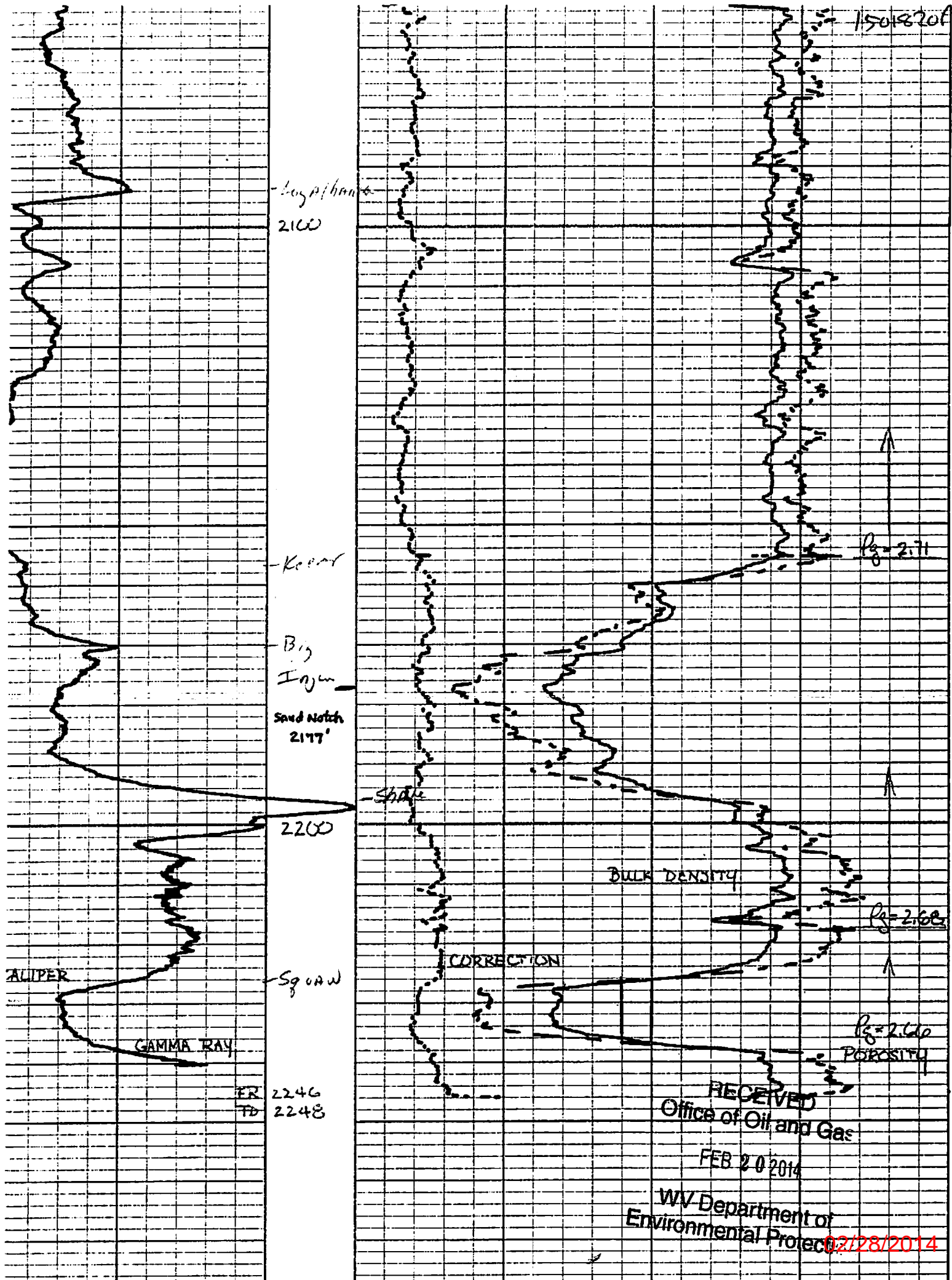
PERMANENT DATUM GROUND LEVEL **ELEV.** 1269.44'
LOG MEASURED FROM KB. AT 10' ABOVE P.D.
DRILLING MEASURED FROM KB.

DATE	21 OCTOBER 80
RUN NO.	ONE
TYPE LOG	GR-CD.-CAL
DEPTH - DRILLER	2259'
DEPTH - LOGGER	2248'
BOTTOM LOGGED INTERVAL	2246'
TOP LOGGED INTERVAL	SURFACE
TYPE FLUID IN HOLE	GEL-MUD DRILLED
SALINITY PPM CL.	
DENSITY LB./GAL.	
LEVEL	
MAX. REC. TEMP. - DEG. F	
OPR. RIG TIME	2 1/2 HRS
RECORDED BY	R. REINECKE
WITNESSED BY	MR. HELDMAN

RUN NO.	BORE HOLE RECORD			CASING RECORD			
	BIT	FROM	TO	SIZE	WGT.	FROM	TO
ONE	6 3/4"	447	T.D.	8 3/8"		SURFACE	447

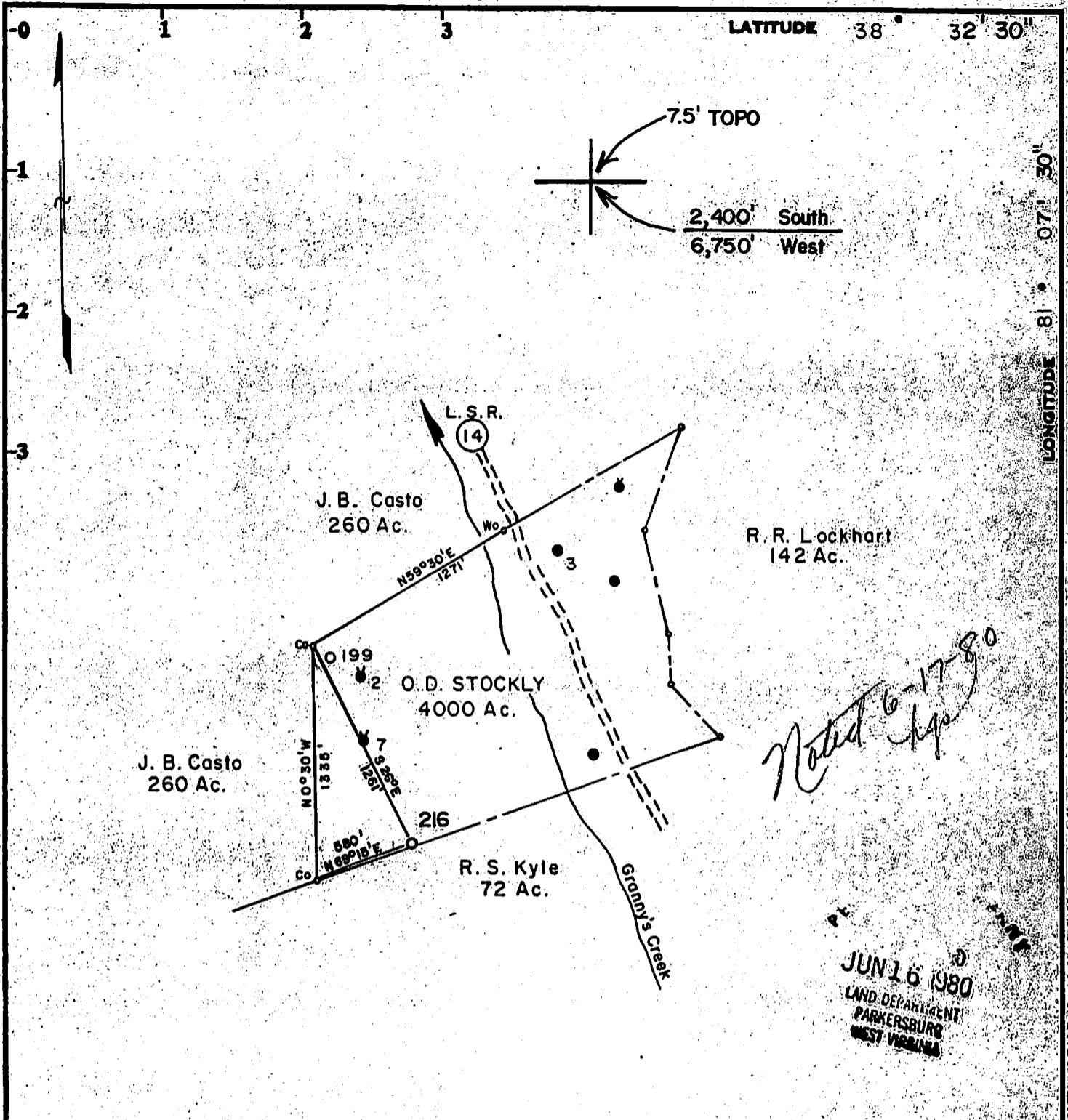
THIS HEADING AND LOG CONFORM TO API STANDARD PRACTICE RP. 33 (8)

RECEIVED
 Office of Oil and Gas
 RECEIVED
 Office of Oil and Gas
 FEB 20 2014
 U.S. Department of Environmental Protection
 Environmental Protection
 02/28/2014



1
1
2
2
2

15018200



Surface-
O.T. White
Ovapa, WV

Minimum Error of Closure 1 in 200
Source of Elevation J.B. CASTO 3796, ELEV. 1292.09'

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 <u>4000</u>	Lease No.	<u>60643-50</u>
Well (Farm) No.	<u>216</u>	Serial No.	
Elevation (Spirit Level)	<u>1269.44'</u>		
Quadrangle	<u>NEWTON 7.5'</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>640</u>	Drawing No.	
Date	<u>6/13/80</u>	Scale	<u>1" = 800'</u>

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

WELL LOCATION MAP

FILE NO. 02/28/2014

RECEIVED
Office of Oil and Gas
+ 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.
FEB 28 1980
- Denotes one inch space department of Environmental Protection

BRUNING 44-131 27198

7009 1430 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 MAIL

MARIETTA OH 45750

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

Postmark Here

9

✓

Sent To
 Douglas O'dell
 3781 Ovapa Rd
 Procious, WV 25164

PS Form

- 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
 02/28/2014

1501820A

WW-9
Rev. 5/08

Page 1 of 2
API Number 47 - 015 - 01820
Operator's Well No. O.D. Stockly # 216

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 1241' 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
- Workover
- Other (Explain _____)
- Swabbing
- Plugging

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]



Notary Public

RECEIVED
Office of Oil and Gas
FEB 20 2014
2-29-14
WV Department of
Environmental Protection

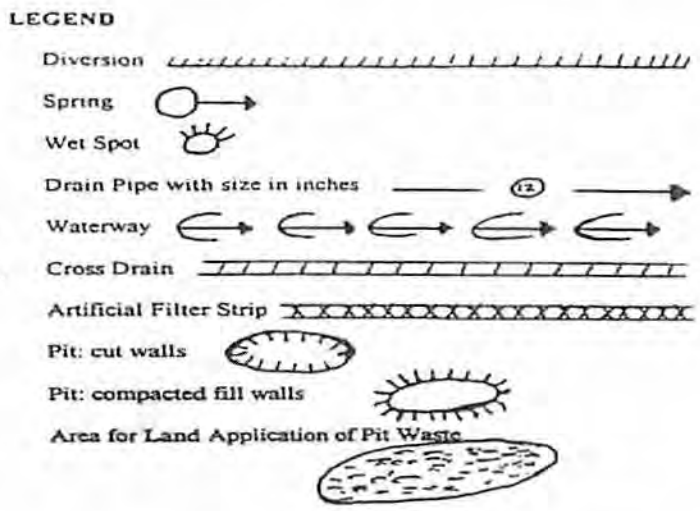
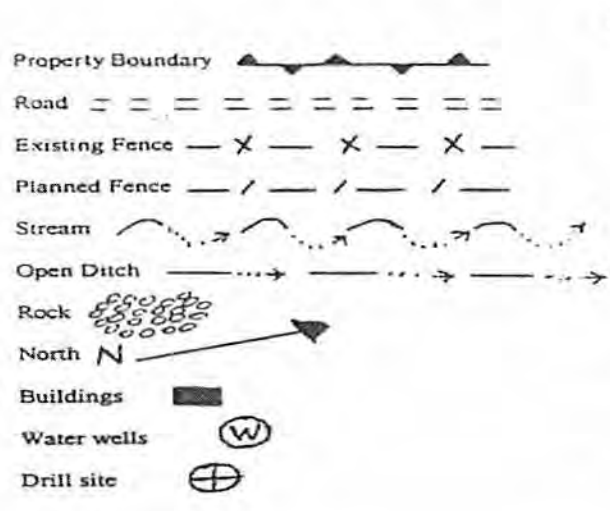
My commission expires 2-29-14

02/28/2014

1501820P

Form WW-9

Operator's Well No. O.D. Stockly # 216



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 () No

RECEIVED
Office of Oil and Gas
FEB 20 2014
WV Department of
Environmental Protection
02/28/2014

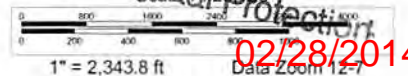
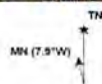
1501820P



Data use subject to license.

© DeLorme. XMap® 7.

www.delorme.com



02/28/2014

RECEIVED
 Office of Oil and Gas
 FEB 20 2014
 Tennessee Department of
 Environment and Conservation
 Seal 02/25

WW-7
8-30-06



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

API: 47-015-01820 WELL NO.: 216

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: 4265193

UTM GPS EASTING: 0487087 GPS ELEVATION: 1241'

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.

Bon Smeltzer
Signature

Geologist
Title

1/17/14
Date

RECEIVED
Office of Oil and Gas
FEB 20 2014
WV Department of Environmental Protection
02/28/2014



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 <i>(degrees decimal)</i>	To/From	UTM	
lon <u>-81.148160262309</u> [>>]		x (easting) <u>0487087</u>	O.D. Stockly # 216
lat <u>38.535049619305</u> [<<]		y (northing) <u>4265193</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](#))

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

02/28/2014

1/10/2014