



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

March 20, 2014

WELL WORK PLUGGING PERMIT

Plugging

This permit, API Well Number: 47-1501654, 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 #205
Farm Name: JONES, DAVID
API Well Number: 47-1501654
Permit Type: Plugging
Date Issued: 03/20/2014

Promoting a healthy environment.

03/21/2014

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.

1501654P

WW-4B
Rev. 2/01

1) Date January 30, 2014
2) Operator's
Well No. O.D. Stockly # 205
3) API Well No. 47-015 - 01654

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 1051' 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 1/2 gel between all plugs

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Office of Oil and Gas

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Notification must be given to the district oil and gas inspector 24 hours before permitted work can commence.

Work order approved by inspector

Date 2/21/14 WV Department of
Environmental Protection

03/21/2014

(2014)

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

Well Name : O.D. Stockly # 205

Permit Number: 47-015-01654

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. (1043' - 9043' Plug)
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.
14. Pull 4 ½" casing to 100 feet below surface. (Set 100 ft plug at sig 1700 - 200-160)
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 140	129.8 cu. ft.

4. SET 250' CLASS A CEMENT PLUG FROM 1950' - 1700'

1501654 P

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES, OIL AND GAS DIVISION
 DATE: March 25, 1980
 WELL OPERATOR'S REPORT
 OF
O.D. Stockly 205
47-015-1654

WELL TYPE: Oil / Gas / Liquid Injection / Waste Disposal
 / "Gas". Protection / Underground storage / Deep / Shallow
 LOCATION: Elevation: 1043.24' Watershed: Granny's Creek
 District: Henry County: Clay Subtriangle: 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 / Redrill / Fracture or stimulate
 Plug off old formation / Perforate new formation
 Other physical change in well (specify) _____

RECEIVED
 MAR 27 1980
 OIL & GAS DIVISION
 DEPT. OF MINE

PERMIT ISSUED ON September 6, 1979
 (IF APPLICABLE: PLUGGING OF DRY HOLE OR CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED _____)
 OIL & GAS INSPECTOR FOR THIS WORK:
 Name Martin Nichols
 Address P. O. Box 554
Clendenin, WV

GEOLOGICAL TARGET FORMATION: Squaw Depth 2068 feet
 Depth of completed well, 2064 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 October 11, 1979, and completed December 4, 1979

CASING AND TUBING PROGRAM

CASING OR TUBING TYPE	SPECIFICATIONS				FOOTAGE INTERVALS		CEMENT FILL-UP OR SACKS (Cubic feet)	PACKERS	
	Size	Trade	Weight per ft	New	Used	For drilling			Left in well
Conductor								Kinds	
Fresh water									
Coal	8-5/8					223	223	125 sks	Sizes
Intermediate									
Production	4-1/2					2059	2059	75 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 07-77
Reverse

[09-78]

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

Fractured: 12-4-79 w/250 gal. 15% HCL, 145 BW, 1000# 20/40 ad.

WELL LOG

FORMATION	Color	Hard or Soft	Top Feet	Bottom Feet	Remarks Including indication of all free and salt water, coal, oil and gas
Sand & Shale			0	152	
Sand			152	161	
Shale			161	242	
Sand & Shale			242	1253	
Sandy Shale			1253	1312	
Sand & Shale			1312	1762	
Little Lime			1762	1813	
Blue Monday			1813	1830	
Big Lime			1830	1874	
Loyalhanna			1874	1946	
Keener			1946	1950	
Big Injun			1950	1979	
Shale			1979	2008	
Squaw			2008	2024	
Shale			2024	2064	
Total Depth				2064	

(Attach separate sheets to complete as necessary)

Pennzoil Company
Well Operator

By Quentin A. [Signature] RECEIVED
Civil Engineering Dept. Office of Oil and Gas

NOTE: Regulation 5.054-2 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."

FEB 21 2014

WV Department of Environmental Protection
03/21/2014

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N McCullough

BOND CEMENT AND/OR SONIC SEISMOGRAM LOG

GAMMA RAY

FILING NO.

HBC-GR-SS-100253

COMPANY PENNZOIL COMPANY

WELL O.D. STOCKLEY #205

FIELD HENRY DISTRICT

COUNTY CLAY STATE WEST VIRGINIA

LOCATION

GRANNY'S CREEK
NEUTRON 7.5 QUAD.

OTHER SERVICES:

PENNZOIL CO.
PETROLEUM ENGR. DEPT.
FILE COPY

SEC. TWP. RGE.

PERMANENT DATUM GL ELEV. 1043'

LOG MEASURED FROM KB

DRILLING MEASURED FROM RKB

ELEVATIONS:

KB 1051'

DF.

GL 1043'

DATE 10-19-79

RUN NO. ONE

TYPE LOG BOND CEMENT-GAMMA RAY-SONIC SEISMOGRAM

DEPTH-DRILLER 2060'

DEPTH-LOGGER 2032.5'

BOTTOM LOGGED INTERVAL 2028'

TOP LOGGED INTERVAL 1350'

TYPE FLUID IN HOLE WATER

SALINITY PPM CL.

DENSITY LB./GAL.

LEVEL FULL

MAX. REC. TEMP. DEG. F.

OPR. RIG TIME

RECORDED BY SMITH

WITNESSED BY MR. HELDMAN

RUN BORE HOLE RECORD CASING RECORD

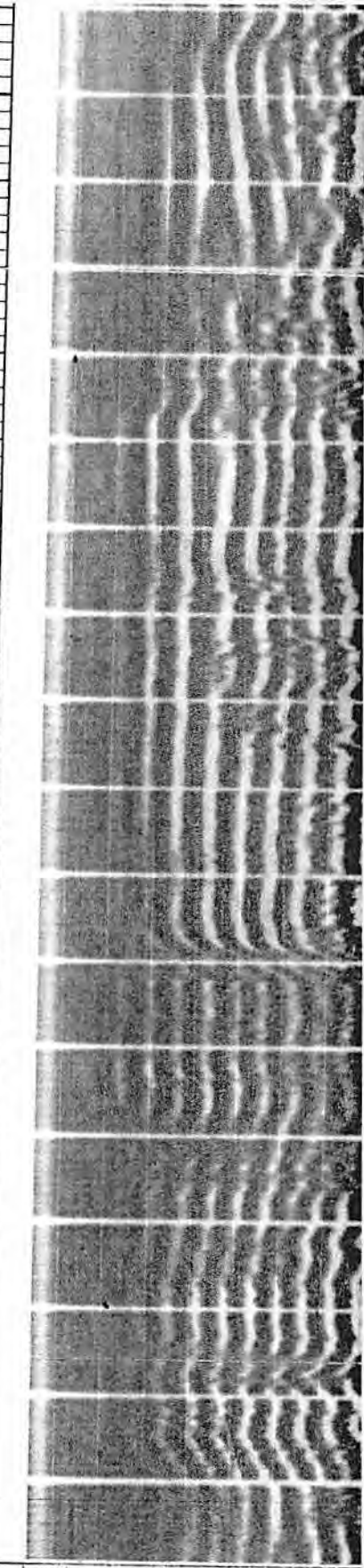
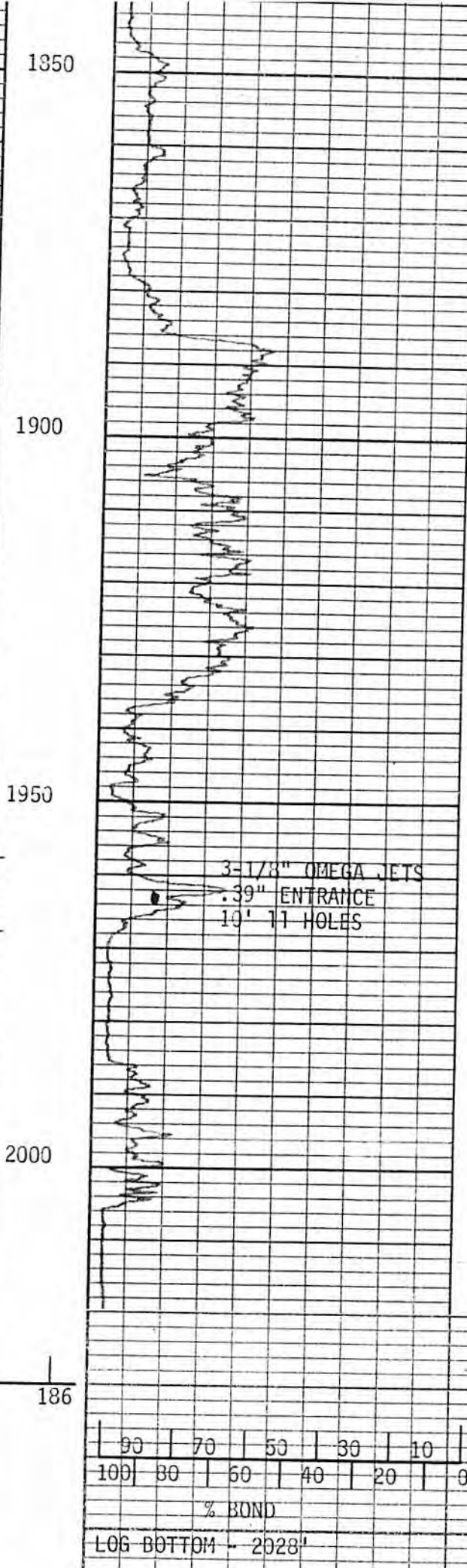
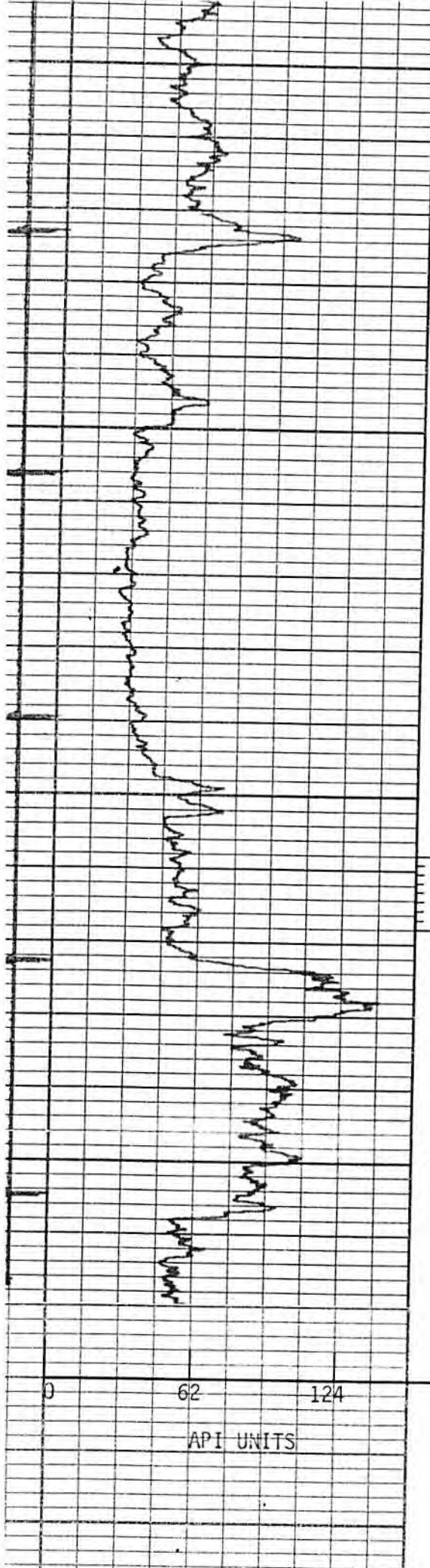
RUN NO.	BIT	BORE HOLE RECORD		SIZE	WGT.	CASING RECORD	
		FROM	TO			FROM	TO
1				8-5/8"		0	207'
	6-3/4"			4-1/2"		0	TD

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WV Department of
Environmental Protection
03/21/2014

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



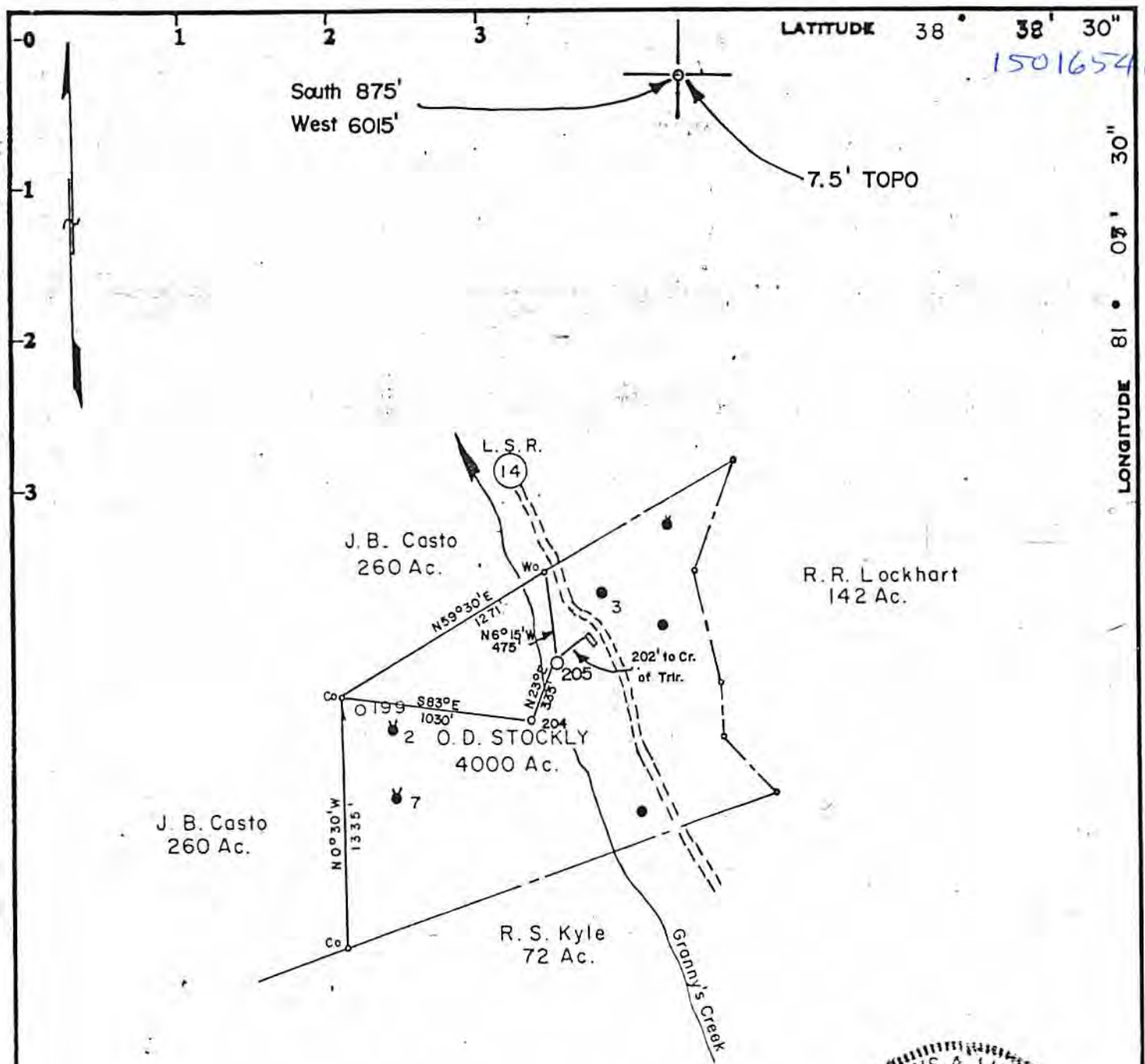
0 62 124 186
API UNITS

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

LOG BOTTOM - 2028'

03/21/2014

1501654P



Surface-
Richard White
Ovapa, WV

Minimum Error of Closure 1 in 200
Source of Elevation O.D. STOCKLY NO. 4 1078.00

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.	205	Serial No.
Elevation (Spirit Level)	1043.24'	
Quadrangle	NEWTON 7.5'	
County	CLAY	District HENRY
Surveyor	CURTIS A. LUCAS	
Surveyor's Registration No.	275	
File No.	640	Drawing No.
Date	8/31/79	Scale 1" = 800'

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

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WELL LOCATION MAP
Office of Oil and Gas
FILE NO. _____
03/21/2014
FEB 21 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.

BRUNING 44-131 27198

1501654P

WW-4A
Revised 6-07

1) Date: January 30, 2014
2) Operator's Well Number
O.D. Stockly # 205
3) API Well No.: 47 - 015 - 01654

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

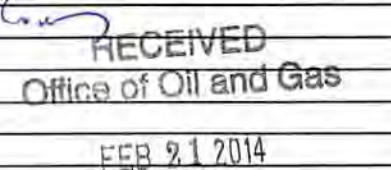
4) Surface Owner(s) to be served:	5) (a) Coal Operator
(a) Name <u>David Jones</u>	Name <u>N/A</u>
Address <u>4081 Ovapa Road</u>	Address _____
<u>Prociuous, W.V. 25164</u>	_____
(b) Name _____	(b) Coal Owner(s) with Declaration
Address _____	Name <u>N/A</u>
_____	Address _____
(c) Name _____	Name _____
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	<u>Triad Hunter, LLC</u>	
By:	<u>Rocky Roberts</u>	
Its:	<u>Senior V.P. Appalachian Operations</u>	
Address	<u>125 Putnam Street</u>	
Telephone	<u>(740) 374-2940</u>	

Subscribed and sworn before me this 30th day of January, 2014 WV Department of Environmental Protection
Elizabeth R. Leagy 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.

03/21/2014

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 Return Receipt Fee (Endorsement Required) _____
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 Total _____

MARIETTA, OH 45750
 FEB 14 2014
 USPS

David Jones
 4081 Ovapa Rd
 Procious, WV 25164

Sen _____
 Stn _____
 or P _____
 City _____
 PS _____

4

✓

O.D. Stockly # 5 47-015-1644
 " # 16 47-015-1468
 " # 200 47-015-1630
 " # 205 47-015-1654

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 WV Department of
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03/21/2014

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WW-9
Rev. 5/08

Page 1 of 2
API Number 47-015 - 01654
Operator's Well No. O.D. Stockly # 205

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 1051' 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. Suby



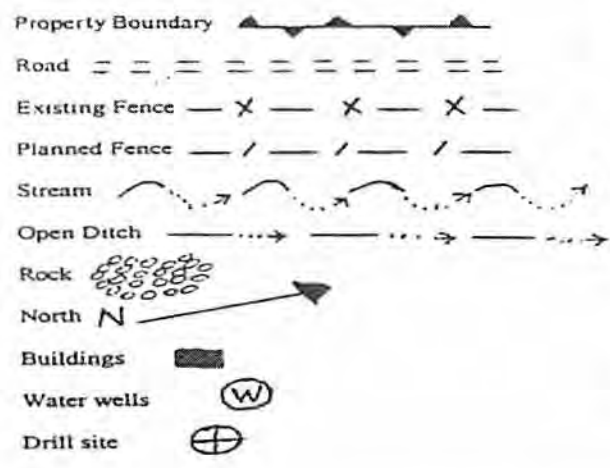
My commission expires 2-29-16

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FEB 21 2014
WV Department of Environmental Protection
03/21/2014

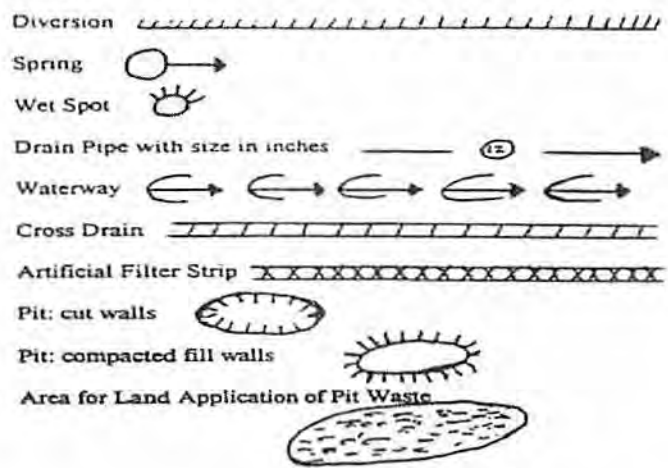
1501654A

Form WW-9

Operator's Well No. O.D. Stockly # 205



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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FEB 21 2014

WV Department of
Environmental Protection
03/21/2014

1501654P



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www.delorme.com



Scale 1" = 2,343.8 ft
 Data Zoom 12.7
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 FEB 21 2014
Environmental Protection
 03/21/2014

1501654P

WW-7
8-30-06



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

API: 47-015-01654 WELL NO.: 205

FARM NAME: O.D. Stockly

RESPONSIBLE PARTY NAME: Triad Hunter, LLC

COUNTY: Clay DISTRICT: Henry

QUADRANGLE: Newton

SURFACE OWNER: David Jones

ROYALTY OWNER: Black Stone Minerals LLP et al

UTM GPS NORTHING: 4265634

UTM GPS EASTING: 0487264 GPS ELEVATION: 1051'

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 21 2014

Office of Oil and Gas
Date
Department of Environmental Protection

03/21/2014

1501654A



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>-81.146137458964</u> [>>]	x (easting)	<u>0487264</u>	O.D. Stockly #205
lat <u>38.539026482707</u> [<<]	y (northing)	<u>4265634</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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