



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: 47-1501626, 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 #208
Farm Name: O'DELL, DOUGLAS
API Well Number: 47-1501626
Permit Type: Plugging
Date Issued: 02/27/2014

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.

1501626P

WW-4B
Rev. 2/01

1) Date January 30, 20 14
2) Operator's
Well No. O.D. Stockly # 208
3) API Well No. 47-015 - 01626

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 1351' GPS Watershed Grannys Creek
District Henry 02 County Clay 13 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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Date 2/4/14
FEB 20 2014

WV Department of
Environmental Protection
02/28/2014

(2014)

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

Well Name : O.D. Stockly # 208

Permit Number: 47-015-01626

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.
14. Pull 4 ½" casing to 100 feet below surface. *Set 100 ft plug set 259' shoe 616' - 516'*
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.

3a. →

140

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02/28/2014

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES, OIL AND GAS DIVISION
 DATE: March 25, 1980
 WELL OPERATOR'S REPORT OF
 O. D. Stockly 208
 47-015-1626

WELL TYPE: Oil / Gas / Liquid Injection Waste Disposal
 (If "Gas", Production / Underground storage / Deep / Shallow)
 LOCATION: Elevation: 1387.50' Watershed: Granny's Creek
 District: Henry County: Clay Subtriangle: Otter 15'

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

PERMIT ISSUED ON June 13, 1980 MAB-27 1980 INSPECTOR FOR THIS WORK:
 (IF APPLICABLE: PLUGGING OF DRY HOLE OR CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED) Name Martin Nichols
 , 19 OIL & GAS DIVISION P. O. Box 554
 DEPT. OF MINES Clendenin, WV

GEOLOGICAL TARGET FORMATION: Squaw Depth 2253 feet
 Depth of completed well, 2375 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 July 22, 1979, and completed January 11, 1980

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					566	566	360 sbs
Intermediate								Sizes
Production	4-1/2					2376	2376	150 sbs
Tubing								Deaths set
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,
 Final open flow, Mcf/d Final open flow,
 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,
 Final open flow, Mcf/d Final open flow,
 Time of open flow between initial and final tests, hours
 Static rock pressure, psig (surface measurement) after hours shut in

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 ENVIRONMENTAL PROTECTION
 02/28/2014

FORM IT-33
Reverse.

[09-72]

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

Fractured: 1-11-80 w/250 gal. 15% HCL, 160 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, gas, oil and etc
Sand & Shale			0	328	
Shaley Sand			328	494	
Shale & Sand			494	1102	
Sandy Shale			1102	1112	
Sand & Shale			1112	2094	
Little Lime			2094	2144	
Blue Monday			2144	2164	
Big Lime			2164	2210	
Loyalhanna			2210	2272	
Keener			2272	2291	
Big Injun			2291	2314	
Shale			2314	2346	
Squaw			2346	2358	
Shale			2358	2375	
Total Depth				2375	

(Attach separate sheets to complete as necessary.)

Pennzoil Company

Well Operator:

By Curtis A. Luman

Civil Engineering Dept.

NOTE: Regulation 2.0244 provides as follows:

"The term 'log' or 'well log' shall mean a systematic, detailed geological record of all formations, including gas, encountered in the drilling of a well."

N McCullough

BOND CEMENT AND/OR SONIC SEISMOGRAM LOG

GAMMA RAY

FILING NO.

HBC-GR-SS-98741

PENNZOIL CO.
 PETROLEUM ENGR. DEPT.
FILE COPY

COMPANY PENNZOIL COMPANY

WELL O.D. STOCKLY #208

FIELD HENRY DISTRICT

COUNTY CLAY STATE W. VA.

LOCATION

GRANNY'S CREEK
 SQS. S62 - W31
 QUAD. OTTER 7.5'

OTHER SERVICES:

SEC. TWP. RGE.

ELEVATIONS:

PERMANENT DATUM GL ELEV. 1395.5'

KB 1353.89'

LOG MEASURED FROM KB

DF 1352.89'

DRILLING MEASURED FROM KB

GL 1395.5'

DATE 8-2-79

RUN NO. ONE

TYPE LOG BOND CEMENT-GAMMA RAY-SONIC SEISMOGRAM

DEPTH - DRILLER 2383'

DEPTH - LOGGER 2352'

BOTTOM LOGGED INTERVAL 2347.5'

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 1-1/2 HOURS

RECORDED BY MAYFIELD

WITNESSED BY MR. McCOWN

BORE HOLE RECORD

CASING RECORD

RUN NO.	BIT	BORE HOLE RECORD		SIZE	WGT.	CASING RECORD	
		FROM	TO			FROM	TO
1	7-7/8"	566'	1720'	8-5/8"		0	566'
	6-3/4"	1720'	TD	4-1/2"		0	TD

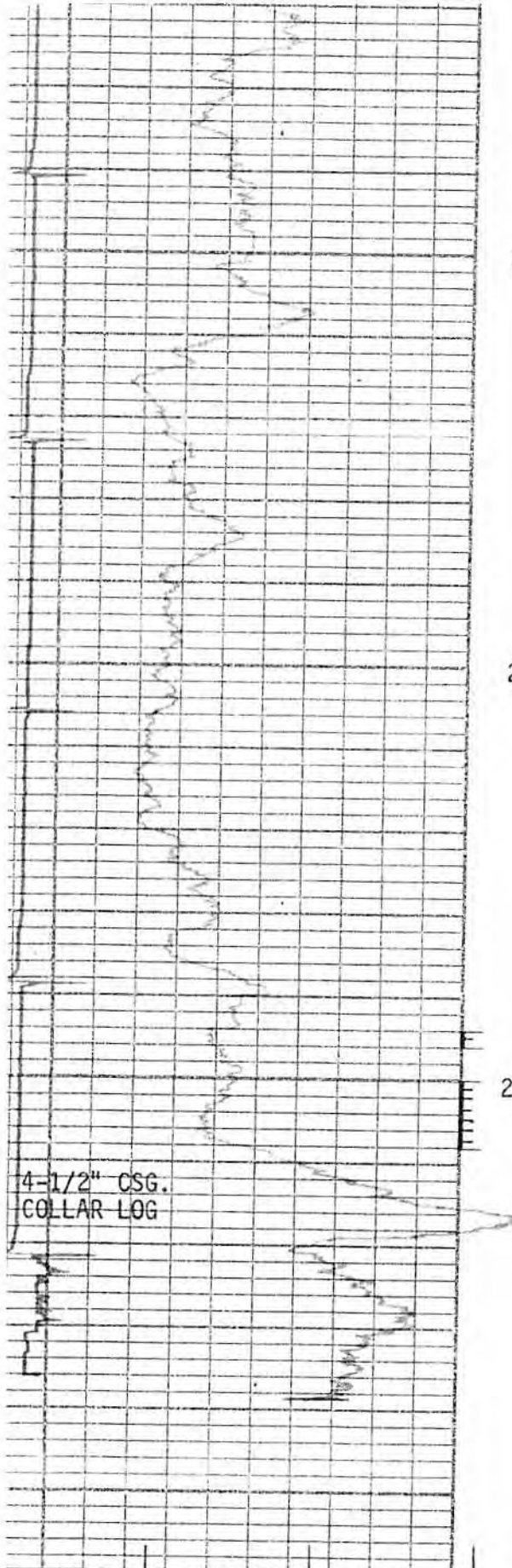
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WV Department of
 Environmental Protection
 02/28/2014

THIS HEADING AND LOG CONFORMS TO API RECOMMENDED STANDARD PRACTICE RP 33 (1)

1501626A



4-1/2" CSG.
COLLAR LOG

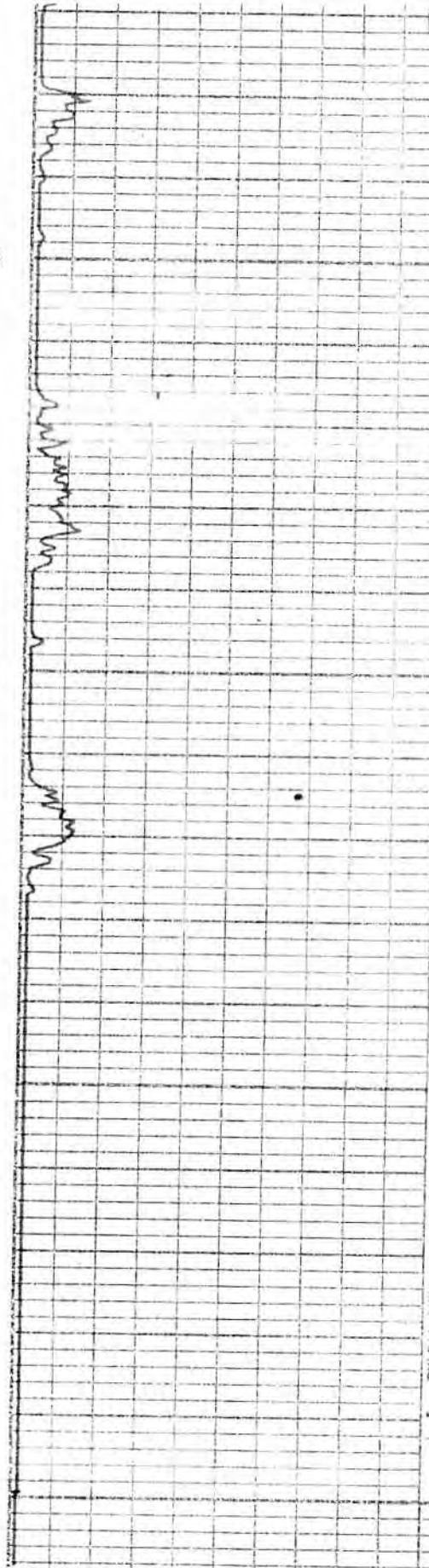
42 84 126

API UNITS

2200

2250

2300



90 70 50 30 10

100 80 60 40 20 0

% BOND

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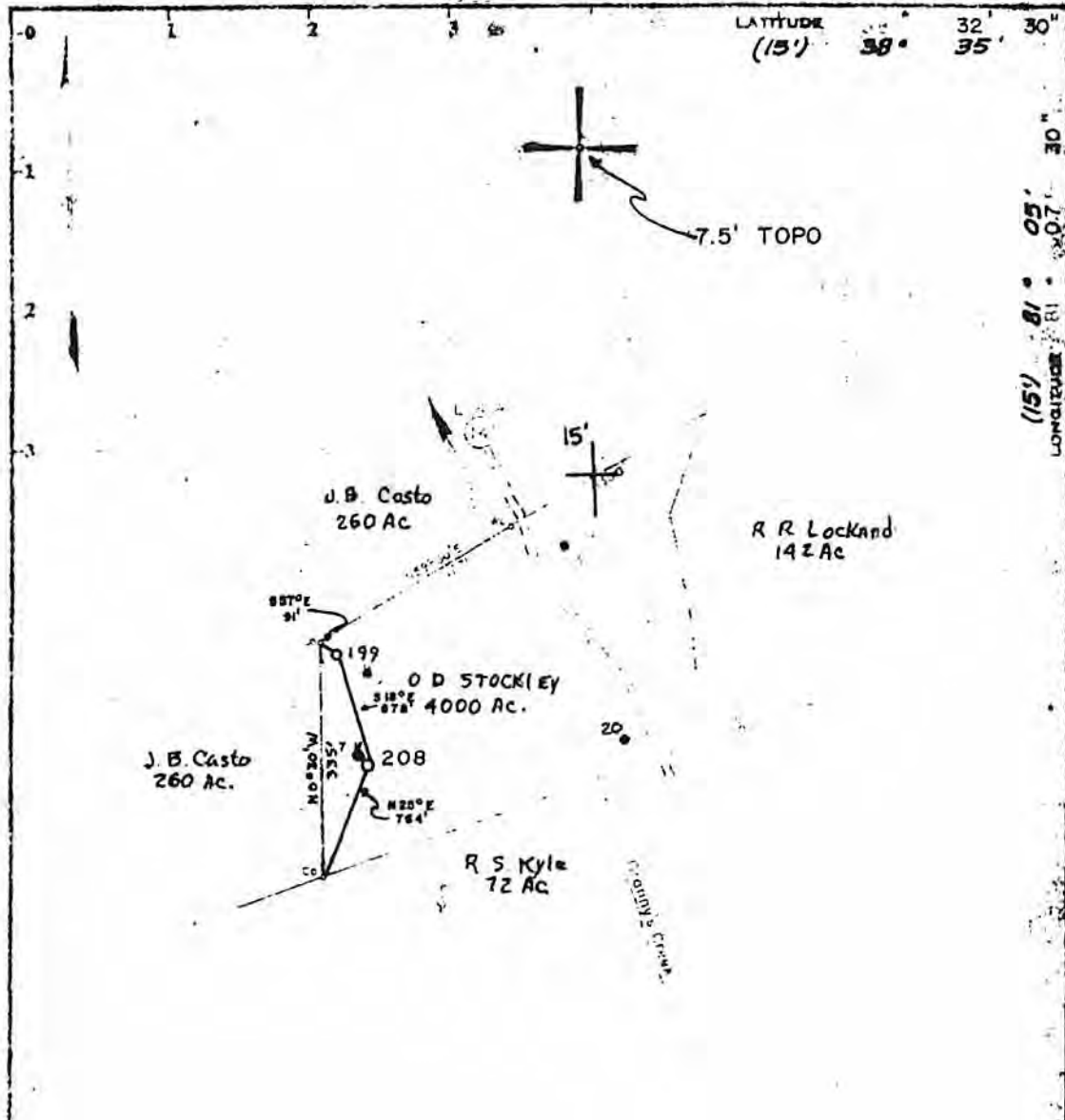
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200 MICROSECONDS

WV Department of
Environmental Protection

02/28/2014

6/12/79



Surface-
Richard White
Ovaps, WV

Minimum Error of Closure _____
Source of Elevation: O.D. Stockley 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 5 62 E W 31

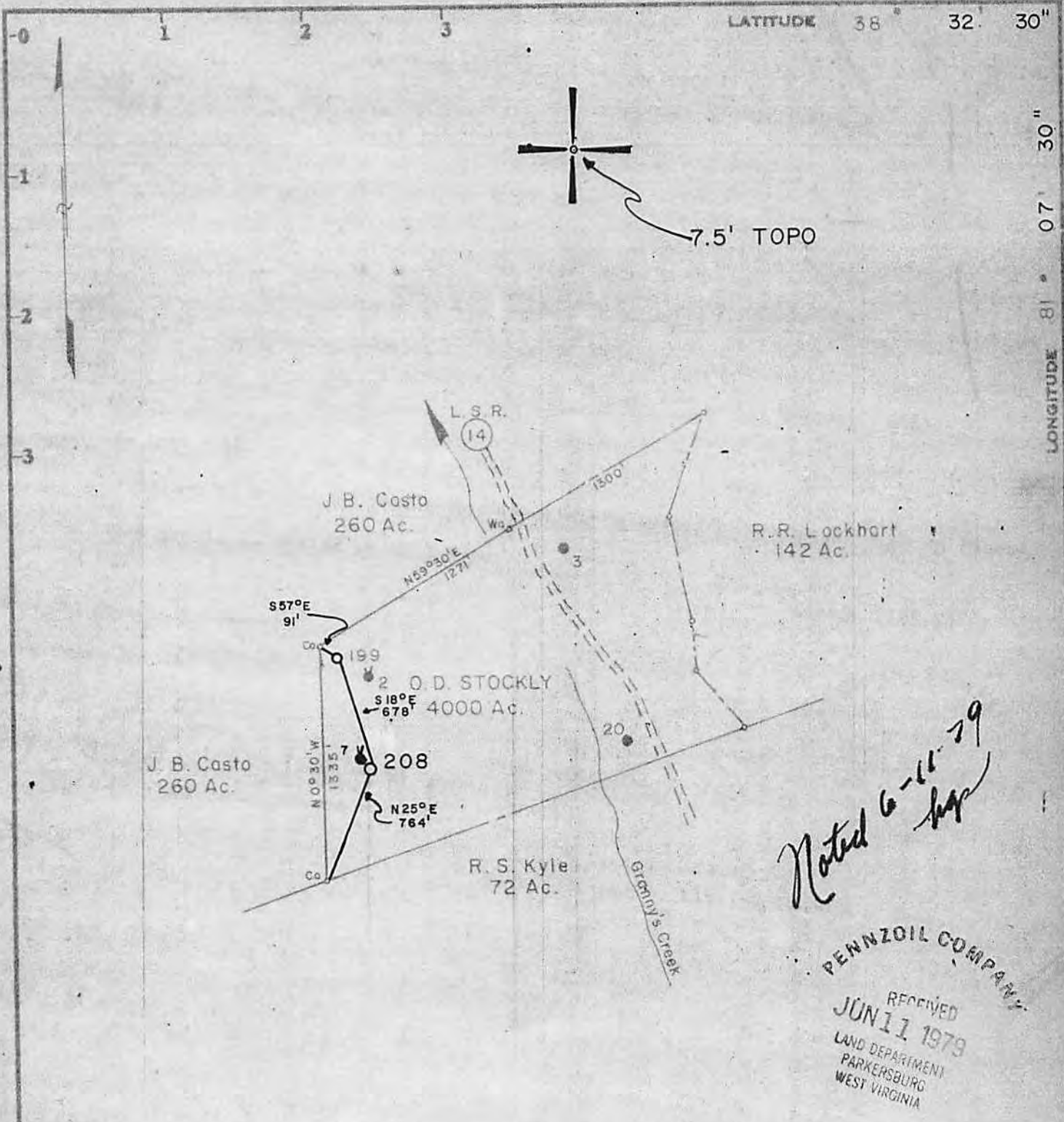
Company PENNZOIL COMPANY
Address P. O. Box 1588, Parkersburg, W. Va. 26101
Farm O. D. STOCKLY
Fract. Acres 4000 Lease No. 60643-50
Well (Farm) No. 208 Serial No. _____
Elevation (Spirit Level) 1387.50
Quadrangle NEWTON 7.5 OTTER 15'
County CLAY District HENRY
Surveyor CURTIS A. LUCAS
Surveyor's Registration No. 275
File No. 640 Drawing No. _____
Date 6/11/79 Scale 1" = 800'

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

WELL LOCATION MAP FILED
FILE NO. 47-015-1626

+ 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.

1501626P



*Noted 6-11-79
hsp*

PENNZOIL COMPANY
 RECEIVED
 JUN 11 1979
 LAND DEPARTMENT
 PARKERSBURG
 WEST VIRGINIA

Surface-
 Richard White
 Ovapa, WV

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	Lease No.	60643-50
Well (Farm) No.	208	Serial No.	
Elevation (Spirit Level)	1387.50		
Quadrangle	NEWTON 7.5		
County	CLAY	District	HENRY
Surveyor	CURTIS A. LUCAS		
Surveyor's Registration No.	275		
File No.	640	Drawing No.	
Date	6/11/79	Scale	1" = 800'

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

WELL LOCATION MAP

FILE NO. _____

02/28/2014

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

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

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BRUNING 44-131 27198

WW-4A
Revised 6-07

1) Date: January 30, 2014
2) Operator's Well Number
O.D. Stockly # 208
3) API Well No.: 47 - 015 - 01626

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>Prociou, 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> <i>Rocky Roberts</i>
Its:	<u>Senior V.P. Appalachian Operations</u>
Address	<u>125 Putnam Street</u>
	<u>Marietta, Ohio 45750</u>
Telephone	<u>(740) 374-2940</u>

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

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 1351' 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.

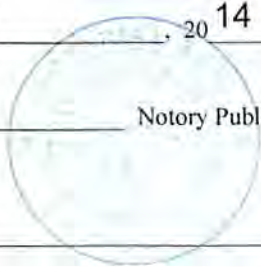
Company Official Signature Rocky Roberts

Company Official (Typed Name) Rocky Roberts

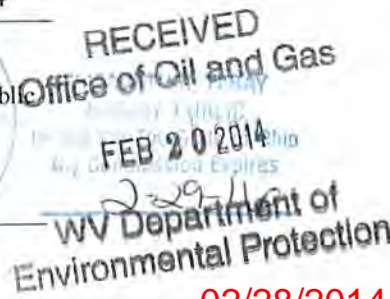
Company Official Title Senior V.P. Appalachian Operations

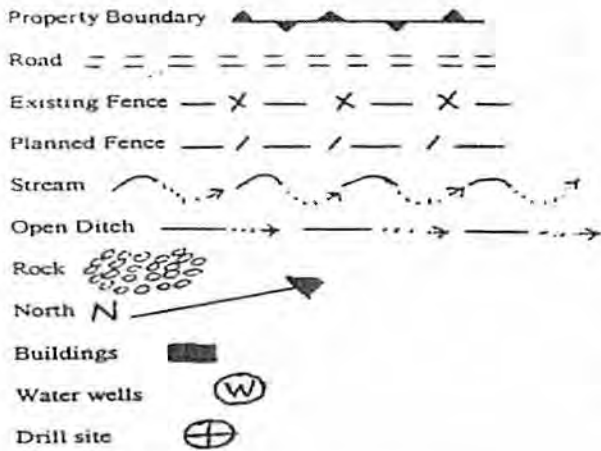
Subscribed and sworn before me this 30 day of January, 2014

Elizabeth P. Suby

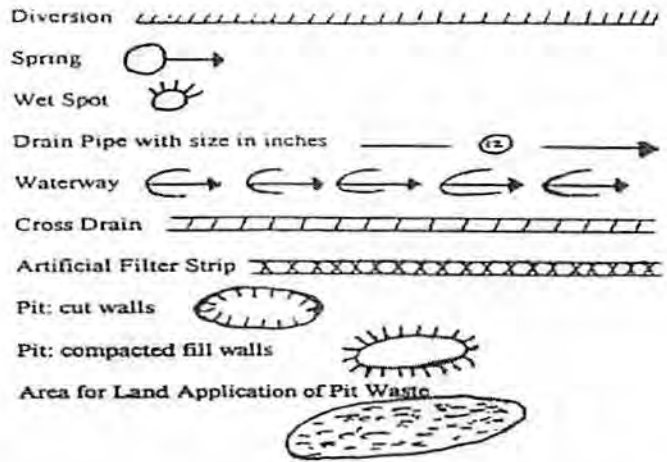


My commission expires 2/29/16





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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1501626P

WW-7
8-30-06



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

API: 47-015-01626 WELL NO.: 208

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: 4265355

UTM GPS EASTING: 0487008 GPS ELEVATION: 1351'

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

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Office of Oil and Gas

1/17/14 2014

Date
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 (degrees decimal)	To/From	UTM	
lon -81.149069696904	[>>]	x (easting)	0487008
lat 38.536508420048	[<<]	y (northing)	4265355
		zone	17
		hemisphere	<input checked="" type="radio"/> N <input type="radio"/> S

O.D. Stockly #208

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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02/28/2014

1/10/2014