



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

May 08, 2014

WELL WORK PLUGGING PERMIT

Plugging

This permit, API Well Number: 47-1501167, 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 #138

Farm Name: KOCH, DAMON

API Well Number: 47-1501167

Permit Type: Plugging

Date Issued: 05/08/2014

Promoting a healthy environment.

05/09/2014

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.

4701501167

- 1) Date January 30, 2014
- 2) Operator's
Well No. O.D. Stockly # 138
- 3) API Well No. 47-015 - 01167

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 920' 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 48 hours before permitted work can commence.

Work order approved by inspector



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Office of Oil and Gas
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Environmental Protection

(2014)

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

Well Name : O.D. Stockly # 138

Permit Number: 47-015-01167

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. BHP 1932' - 1682'
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. ELEV. PLUG (970' - 870')
13. Displace cement through casing with gel water.
14. Pull 4 ½" casing to ~~100~~¹⁵⁰ 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 |
| 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: | 150 ft. | | 110 sacks | 129.8 cu. ft. |

PERFORATION
1845' - 1875'

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WV Department of
Environmental Protection

4701501167



McCullough®

GAMMA RAY LOG

FILING NO.

HGR-83743

COMPANY PENNZOIL CO.

WELL O.D. STOCKLEY #138

FIELD HENRY DISTRICT

COUNTY CLAY STATE W. VA.

LOCATION:

GRANNY'S CREEK
OTTER QUAD.

OTHER SERVICES:

PENNZOIL CO.
 PETROLEUM ENGR. DEPT.
 FILE COPY

| PERMANENT DATUM | SEC. | TWP. | RGE. | ELEV. | ELEVATIONS: |
|-------------------------|------|------|------|------------|-------------|
| | | | | 949.87' | KB. 957.87' |
| LOG MEASURED FROM | | | | | DF. 956.87' |
| DRILLING MEASURED FROM | | | | | GL. 949.87' |
| DATE | | | | 12-21-76 | |
| RUN NO. | | | | ONE | |
| TYPE LOG | | | | GAMMA RAY | |
| DEPTH-DRILLER | | | | 1935' | |
| DEPTH-LOGGER | | | | 1911' | |
| BOTTOM LOGGED INTERVAL | | | | 1909' | |
| TOP LOGGED INTERVAL | | | | 1650' | |
| TYPE FLUID IN HOLE | | | | DRY | |
| SALINITY PPM CL. | | | | | |
| DENSITY LB./GAL. | | | | | |
| LEVEL | | | | | |
| MAX. REC. TEMP. DEG. F. | | | | | |
| OPR. RIG TIME | | | | | |
| RECORDED BY | | | | LEGG | |
| WITNESSED BY | | | | MR. McCOWN | |

| RUN NO. | BORE HOLE RECORD | | | | CASING RECORD | | | |
|---------|------------------|------|----|--------|---------------|------|------|--|
| | BIT | FROM | TO | SIZE | WGT. | FROM | TO | |
| 1 | 6-3/4" | 110' | TD | 8-5/8" | | 0 | 110' | |
| | | | | 4-1/2" | | 0 | TD | |
| | | | | | | | | |
| | | | | | | | | |

THIS HEADING AND LOG CONFORMS TO API RECOMMENDED STANDARD PRACTICE RP-33 (A) FOLD HERE

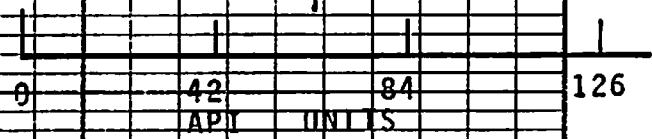
4701501167

1750

1800

1850

1900



LOG BOTTOM 1909'

PENNZOIL COMPANY
O.D. STOCKELY #138
HENRY DISTRICT FIELD
CLAY COUNTY, WEST VIRGINIA

05/09/2014

4701501167

7011 1570 0001 5396 3562

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| Postage | \$ |
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To: Damon Koch
 4713 Ovapa Rd
 Ovapa, WV 25164

PS Form 3800, August 2008

MARIETTA OH 45750
FEB 14 2014
USPS

BEN

1.0



O.D. Stockly # 138

47-015-1167

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05/09/2014

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 920' 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

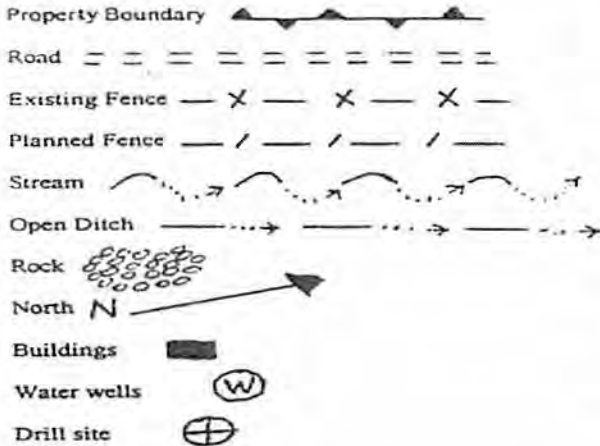
Company Official Title Senior V.P. Appalachian Operations

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

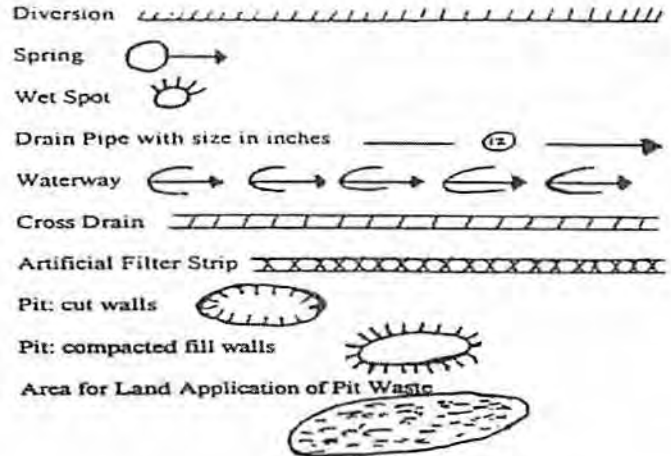
Elizabeth R. Sebay
Notary Public

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: 

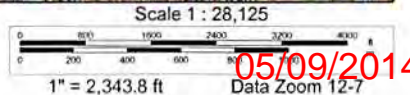
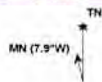
Comments: _____

Title: Inspector Date: 2/9/14

Field Reviewed? () Yes (X) No



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 www.delorme.com





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

API: 47-015-01167 WELL NO.: 138
FARM NAME: O.D. Stockly
RESPONSIBLE PARTY NAME: Triad Hunter, LLC
COUNTY: Clay DISTRICT: Henry
QUADRANGLE: Newton
SURFACE OWNER: Damon Koch
ROYALTY OWNER: Black Stone Minerals LLP et al
UTM GPS NORTHING: 4266367
UTM GPS EASTING: 0486740 GPS ELEVATION: 920'

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.

[Signature]
Signature

Geologist
Title

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FEB 20 2014
1/17/14
WV Department of Environmental Protection



4701501167

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 -81.152163922647 [>>] | x (easting) | 0486740 | O.P. Stockly # 138 |
| lat 38.545624644178 [<<] | y (northing) | 4266367 | |
| | zone | 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.

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