



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

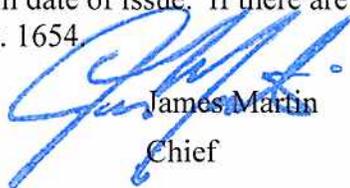
WELL WORK PLUGGING PERMIT

Plugging

This permit, API Well Number: 47-1501954, 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: R.P. PARKER (J. REED) #20694

Farm Name: BULLARD, ARLEY

API Well Number: 47-1501954

Permit Type: Plugging

Date Issued: 05/08/2014

Promoting a healthy environment.

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.

1) Date January 30, 2014
2) Operator's
Well No. R.P. Parker (J. Reed) # 20694
3) API Well No. 47-015 - 01954

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 X or Underground storage ___) Deep ___ / Shallow X

5) Location: Elevation 1175' GPS Watershed Right Fork of Camp Run
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
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!

*0
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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(2014)

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

Well Name : R.P. Parker (J. Reed) # 20694

Permit Number: 47-015-01954

District: Henry

County: Clay

MIRU 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 (2190' - 1940')*
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 (1225' - 1125')*
13. Displace cement through casing with gel water. *set 100 ft plug across surface esp. if not already cemented in*
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.

ELEV. 1175
→

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.

*INSUR
2080' - 2097'*

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Sh
Sud

20694/4701501954

James Reed (R.P. Parker)

47-015-01954

Big
Lime
2000

Completed
10-14-81

2050



2100

Sh

SQUAW

2173
4 1/2

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IV-35
(Rev 8-81)

Date April 26, 1983
 Operator's
 Well No. 20694
 Farm James Reed
 API No. 47 - 015 - 01954

State of West Virginia
 Department of Mines
 Oil and Gas Division

WELL OPERATOR'S REPORT
 OF
DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

WELL TYPE: Oil ___ / Gas ___ / Liquid Injection x / Waste Disposal ___ /
 (If "Gas," Production ___ / Underground Storage ___ / Deep ___ / Shallow ___ /)

LOCATION: Elevation: 1160.24 Watershed Summers Fork
 District: Henry County Clay Quadrangle Newton

COMPANY Columbia Gas Transmission Corporation
 ADDRESS P. O. Box 1273, Charleston, WV 25325
 DESIGNATED AGENT James L. Weekley
 ADDRESS P. O. Box 1273, Charleston, WV 25325
 SURFACE OWNER Arley Bullard
 ADDRESS _____
 MINERAL RIGHTS OWNER J. P. Wheeler
 ADDRESS Box 173, Clay, WV 25150
 OIL AND GAS INSPECTOR FOR THIS WORK Martin
Nichols ADDRESS Box 554
Clendenin, WV 25045
 PERMIT ISSUED 5/28/81
 DRILLING COMMENCED 9/10/81
 DRILLING COMPLETED 9/16/81
 IF APPLICABLE: PLUGGING OF DRY HOLE ON
 CONTINUOUS PROGRESSION FROM DRILLING OR
 REWORKING. VERBAL PERMISSION OBTAINED
 ON _____

Casing & Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft.
Size 20-16 Cond.			
13-	10'	10'	8 Sacks
9 5/8			
8 5/8	403.94	403.94	130 Sacks
7			
5 1/2			
4 1/2	2164	2164	390 Sacks
3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION Big Injun Depth 2070 feet
 Depth of completed well 2185 feet Rotary x / Cable Tools _____
 Water strata depth: Fresh _____ feet; Salt _____ feet
 Coal seam depths: _____ Is coal being mined in the area? No

OPEN FLOW DATA

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

Perforated 10/14/81 from 2080-2097' with one hole.

Acidized 10/14/81 from 2070-2104' with 500 gallons 15% Hcl.

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all fresh and salt water, coal, oil and gas
Silt	(Slate & Shells)		0	334	
Sand			334	448	
Sand & Slate			448	504	
Slate			504	534	
Sand & Silt			534	700	
Slate			700	720	
Sand			720	742	
Slate			742	830	
Sand & Silt			830	934	
Slate			934	1000	
Silt			1000	1026	
Slate			1026	1076	
Slate & Silt			1076	1175	
Salt Sand			1175	1700	Salt Water
Little Lime			1785	1820	
Big Lime			1880	1970	
Big Injun			1970	2104	
DTD				2185	
LTD				2190	

(Attach separate sheets as necessary)

Columbia Gas Transmission Corporation

Well Operator

By:

Date:

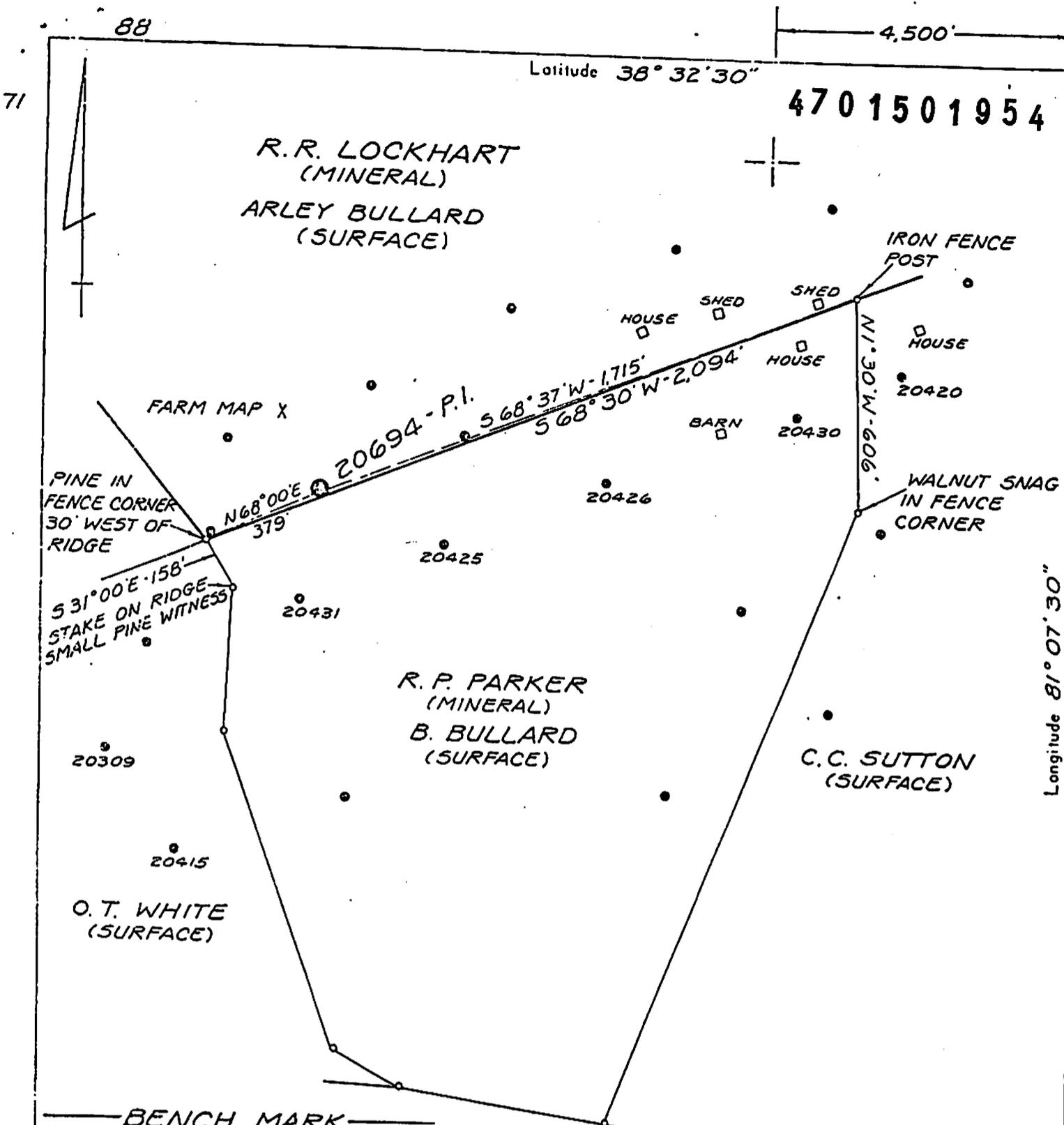
[Signature]
5-31-83

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Note: Regulation 2.02(i) provides as follows:
"The term 'log' or 'well log' shall mean a systematic detailed geological record of all formations, including soil, encountered in the drilling of a well."



BENCH MARK
 U.S. GOVERNMENT BENCH MARK
 JEA-1963 - TOP CONCRETE ABUTMENT
 EAST SIDE W.VA. RT. 36 ELEV. 833'

- WATER INJECTION**
- New Location
 - Storage
 - Drill Deeper
 - Abandonment
 - Re-Drill/Fracture

"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 the rules and regulations of the oil and gas section of the mining laws of WEST VIRGINIA.
 Minimum degree of accuracy is one part in 200

LAND SURVEYOR
 REG. N^o 16236-E (PA.)
 Signed _____

Company COLUMBIA GAS TRANS. CORP.
 Address BOX 1273 CHARLESTON, W.VA.
 Farm R.R. LOCKHART
 Lease 20206 Acres 142.60^a
 Well Farm No. _____ Ser. No. 20694-P.I.
 Elevation-Spirit Level 1,160.24'
 Quadrangle NEWTON
 Township or District HENRY
 County CLAY
 Sec., Lot, Qr. _____ T. _____ R. _____
 Coordinates LAT: 38° 32' 15" LONG: 81° 08' 27"
 File No. 88-71 Dwg. No. _____
 Date 12-2-80 Scale 1" = 400'

FORM 1445 OF 4 CSO
 REV. 11-78

COLUMBIA GAS SYSTEM
 COLUMBIA GAS TRANSMISSION CORPORATION
 WELL LOCATION MAP
 STATE OF WEST VIRGINIA

(+) Denotes Values of Well On
 United States Topographic Maps

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Scale 15' 7 FEB 20 2014

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4701501954

WW-4A
Revised 6-07

1) Date: January 30, 2014
2) Operator's Well Number
R.P. Parker (J. Reed) # 20694

3) API Well No.: 47 - 015 - 01954

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>Rodney Bullard</u>	Name <u>N/A</u>
Address <u>207 White Road</u>	Address _____
<u>Wallback, W.V. 25285</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 Triad Hunter, LLC
 By: Rocky Roberts
 Its: Senior V.P. Appalachian Operations
 Address 125 Putnam Street
Marietta, Ohio 45750
 Telephone (740) 374-2940

Subscribed and sworn before me this 30th day of January, 2014
Elizabeth R. Taday
 My Commission Expires 2-29-16
 Notary Public



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 depprivacyofficer@wv.gov.

WV Department of Environmental Protection

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Return Receipt Fee (Endorsement Required)	
Restricted Delivery Fee (Endorsement Required)	

To: Rodney Bullard
 207 White Rd
 Wallback, WV 25285

MARIETTA, OH 45750
 FEB 14 2014
 USPS

Postmark Here

PS Form 3800, June 2009

7011 1570 0001 5996 3685

3



O.D. Stockly # 201

47-015-1728

R.R. Lockhart # 506

47-015-1727

R.P. Parker # 20694

47-015-1954

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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 Right Fork of Camp Run Quadrangle Newton

Elevation 1175' 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*

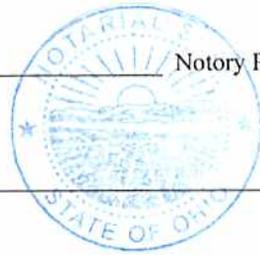
Company Official (Typed Name) Rocky Roberts

Company Official Title Senior V.P. Appalachian Operations

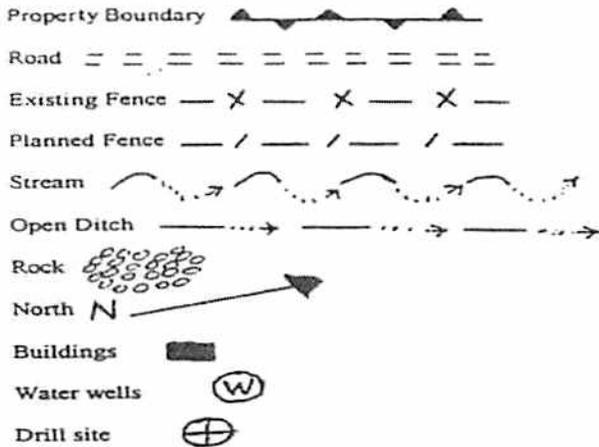
Subscribed and sworn before me this 30th day of January, 2014

Elizabeth P. Libby

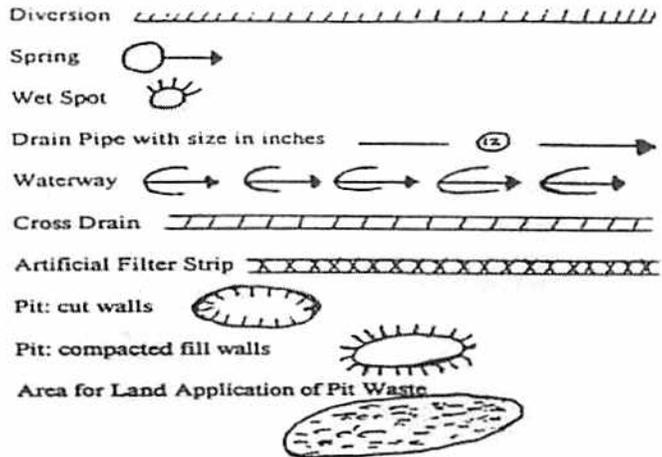
My commission expires 2-29-16



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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

Area I		Area II	
Seed Type	lbs/acre	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 () No



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www.delorme.com



Environmental Protection
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 = 2,343.8 ft Data Zoom 12-7



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

API: 47-015-01954 WELL NO.: 20694

FARM NAME: R.P. Parker (J. Reed)

RESPONSIBLE PARTY NAME: Triad Hunter, LLC

COUNTY: Clay DISTRICT: Henry

QUADRANGLE: Newton

SURFACE OWNER: Rodney Bullard

ROYALTY OWNER: Black Stone Minerals LLP et al

UTM GPS NORTHING: 4265473

UTM GPS EASTING: 0487738 GPS ELEVATION: 1175'

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

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4701501954



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	R.P. PARKER # 20694
lon <input type="text" value="-81.140695801093"/>	[>>]	x (easting) <input type="text" value="0487738"/>	
lat <input type="text" value="38.537582205645"/>	[<<]	y (northing) <input type="text" value="4265473"/>	
		zone <input type="text" value="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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