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**west virginia** department of environmental protection

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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

June 12, 2015

**WELL WORK PLUGGING PERMIT**

**Plugging**

This permit, API Well Number: 47-1502024, 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: 20696  
Farm Name: BULLARD, PARKER, REED  
**API Well Number: 47-1502024**  
**Permit Type: Plugging**  
Date Issued: 06/12/2015

## 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

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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: 1/20/2015  
2) Operator's Well Number  
R.P. Parker # 20696  
3) API Well No.: 47 - 015 - 2024 P

**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, WV 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, WV 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.

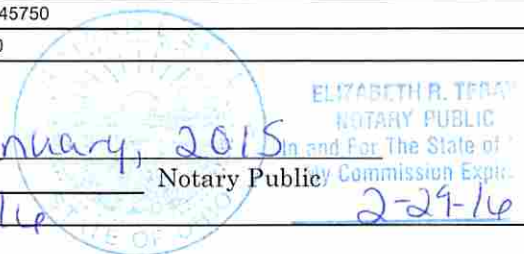
The reason you received these documents is that you have rights regarding the application which are summarized in the instructions on the reverses side. However, you are not required to take any action at all.

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

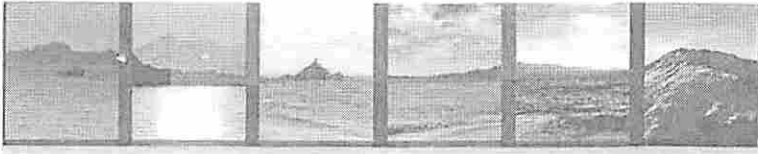
Received  
Office of Oil & Gas  
MAR 16 2015

Subscribed and sworn before me this 22nd day of January, 2015  
Elizabeth R. Terry 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](mailto:depprivacyoffier@wv.gov).



Rodney Bullard

15-2024P

R.P. Parker

# 20695

# 20696

# 21977

# 21980

# 21981

(5 Wells)

915 Greenbag Road  
Morgantown, WV 26508  
Toll Free 888.292.0001  
Fax 304.292.0283



Expert Solutions.

www.morgantownprinting.com

803 Quarrier St, Suite 310  
Charleston, WV 25301  
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Fax 304.345.0644

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**OFFICIAL USE**

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

Postmark Here

Sent to: Rodney Bullard  
 Street, Apt. No., or PO Box No. 207 White Rd  
 City, State, ZIP+4®: Walhback WV 25285

PS Form 3800, August 2006 See Reverse for Instructions

7014 0150 0000 9042 1309

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 \_\_\_

5) Location: Elevation 898' GL Watershed Right Fork of Big Sandy Creek  
District Henry 2 County Clay 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, WV 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, WV 25276

10) Work Order: The work order for the manner of plugging this well is as follows:

150' - 200' Bottom hole plug in 4 1/2" casing. across permits

No Cut Plug - 4 1/2" casing cemented to surface!

100' - Elevation plug @ 1000' ( inside 4 1/2" csg.).

No Surface Casing Plug!

150' - 200' Surface plug in 4 1/2" casing.

Note! 1. All cement plugs - Class A cement.

2. Gel spacers between all cement plugs.

3. No coal seams reported.

Received  
Office of Oil & Gas  
MAR 16 2015

ERECT MONUMENT w/API #  
GCS 6/10/15

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

Work order approved by inspector [Signature] Date 3/9/15

35  
 2024  
 Permit



Date February 18, 1985  
 Operator's \_\_\_\_\_  
 Well No. 20696  
 Farm R. P. Parker  
 API No. 47 - 015 - 2024

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: 897.73 Watershed Right Fork of Big Sandy  
 District: Henry County Clay Quadrangle Newton

COMPANY Columbia Gas Transmission  
 ADDRESS P. O. Box 1273, Charleston, WV  
 DESIGNATED AGENT James L. Weekley  
 ADDRESS P. O. Box 1273, Charleston, WV  
 SURFACE OWNER B. Bullard  
 ADDRESS \_\_\_\_\_  
 MINERAL RIGHTS OWNER R. P. Parker  
 ADDRESS \_\_\_\_\_  
 OIL AND GAS INSPECTOR FOR THIS WORK Martin Nichols  
 ADDRESS P.O.Box 554 Clendenin, WV 25045  
 PERMIT ISSUED 4/15/81  
 DRILLING COMMENCED 12-14-81  
 DRILLING COMPLETED 12-18-81  
 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"			
9 5/8			
8 5/8	369.40	369.40	150 sks
7			
5 1/2			
4 1/2	1892.68	1892.68	390 sks
3			
2			
Liners used			

Office  
 MAR 16 2015

GEOLOGICAL TARGET FORMATION Injun Depth 1890 feet  
 Depth of completed well 1920 feet Rotary X / Cable Tools \_\_\_\_\_  
 Water strata depth: Fresh \_\_\_\_\_ feet; Salt 1165 feet  
 Coal seam depths: None Is coal being mined in the area? No

OPEN FLOW DATA Injection Well - No test taken  
 Producing formation Injun Pay zone depth 1832-1845 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

06/12/2015

(Continue on reverse side)

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

Perforated on 12-22-81 from 1832-1845' with one shot per foot.

Acidized from 1806-1850' 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
Shale			0	90	
Sand			90	216	
Shale			216	275	
Sand			275	450	
Shale			450	536	
Sand and Shale			536	1164	
Salt Sand			1164	1384	
Shale			1384	1416	
Sand & Silt			1416	1460	
Maxon			1460	1546	
Shale & Silt			1546	1634	
Little Lime			1634	1662	
Shale			1662	1704	
Big Lime			1704	1818	
Big Injun			1818	1844	
LTD			1919		
DTD			1920		

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MAR 16 2015

(Attach separate sheets as necessary)

Columbia Gas Transmission Corporation

Well Operator

By:

*[Signature]*

06/12/2015

Date:

February 18, 1985

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 coal, encountered in the drilling of a well."

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 4944494833

Watershed Right Fork of Big Sandy Creek Quadrangle Newton

Elevation 898' GL County Clay District Henry

Description of anticipated Pit Waste: oil, saltwater, and freshwater

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 Fluids collected in surface tank and hauled to Ovapa Injection Facility.)

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

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Office of Oil & Gas  
MAR 16 2015

Subscribed and sworn before me this 22<sup>nd</sup> day of January, 2015

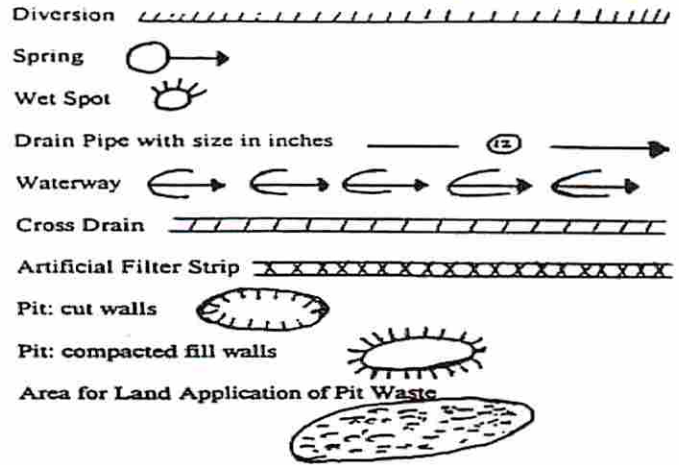
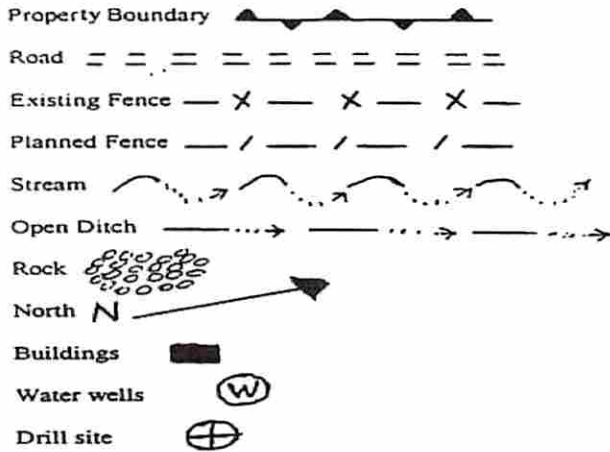
Elizabeth R Tebay  
Notary Public  
My commission expires 2-29-16





15-2024P

**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) 500 lbs/acre (500 lbs minimum)  
 Mulch (50 bales) 2.5 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

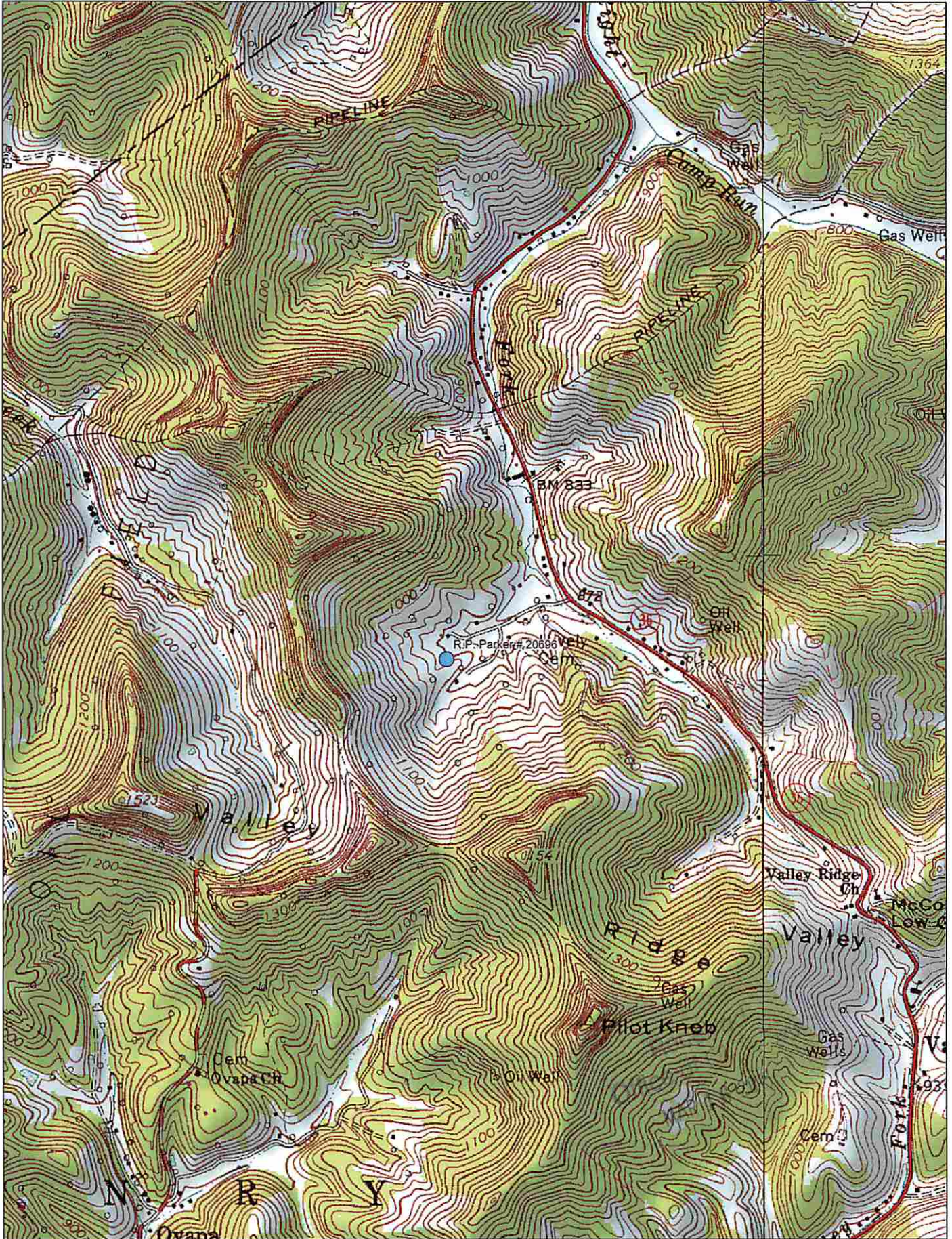
Date: 3/9/15

Field Reviewed? ( ) Yes

( ) Yes

( X ) No

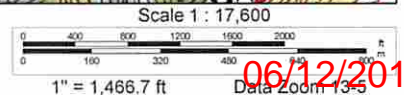
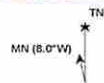
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Data use subject to license.

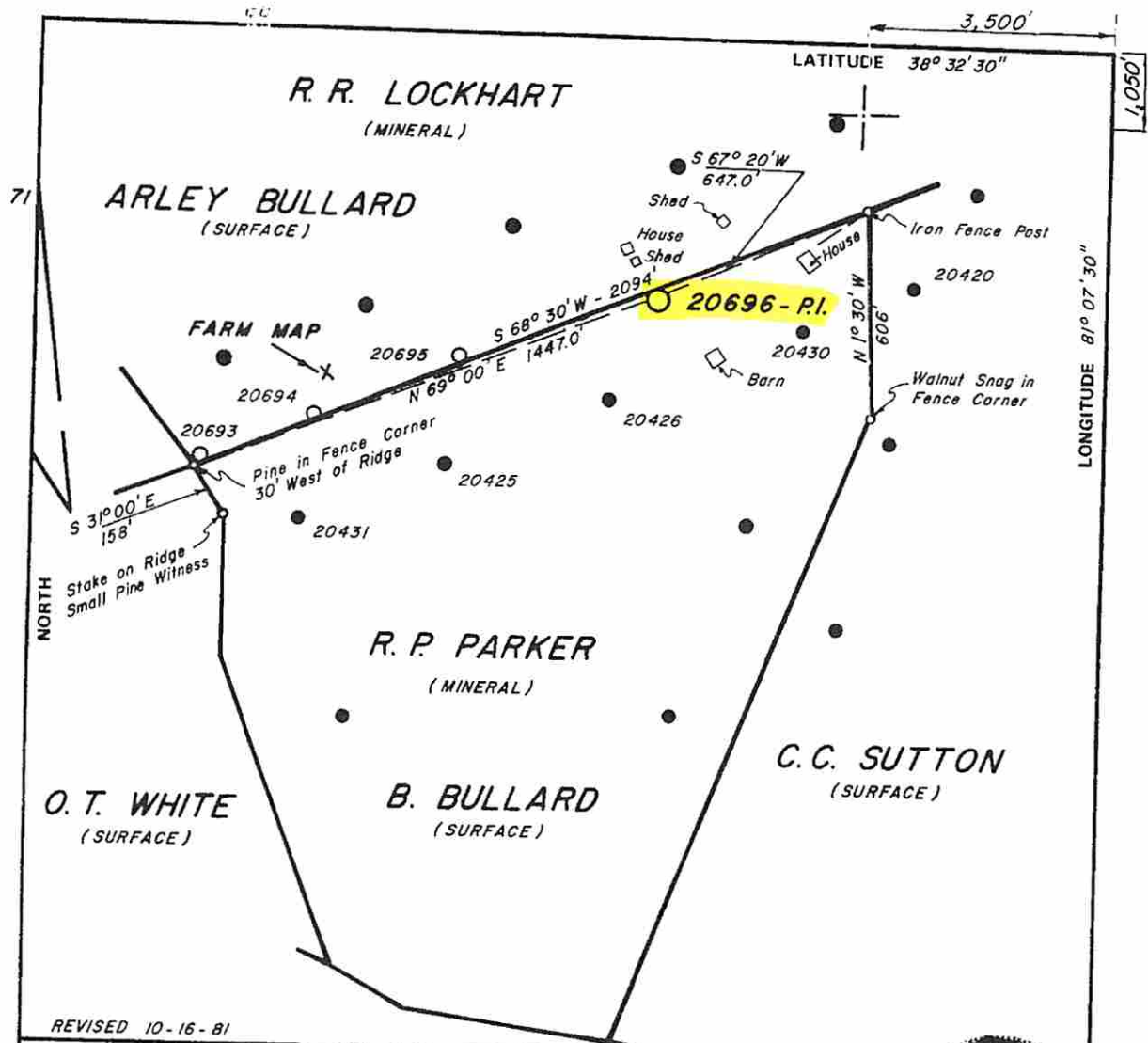
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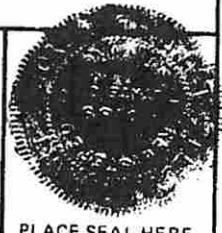
Data Zoom 13-5



REVISED 10-16-81

FILE NO. 88-71  
 DRAWING NO. 20696-P.I.  
 SCALE 1" = 400'  
 MINIMUM DEGREE OF ACCURACY 1 PART IN 200  
 PROVEN SOURCE OF ELEVATION U.S. GOV'T. B.M. JEA - 1963 - EL. 833'

I THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAT 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 DEPARTMENT OF MINES.  
 (SIGNED) Hayd C. Hart  
 R.P.E. \_\_\_\_\_ L.L.S. 99



PLACE SEAL HERE

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS  
 FORM IV-6  
 (8-78) LAT: 38° 32' 20"  
 LONG: 81° 08' 15"



STATE OF WEST VIRGINIA  
 DEPARTMENT OF MINES  
 OIL AND GAS DIVISION

DATE MAY 7, 19 81  
 OPERATOR'S WELL NO. 20696-P.I.  
 API WELL NO. \_\_\_\_\_  
47-015-2024-L1  
 STATE COUNTY PERMIT

WELL TYPE: OIL \_\_\_ GAS \_\_\_ LIQUID INJECTION X WASTE DISPOSAL \_\_\_  
 (IF "GAS.") PRODUCTION \_\_\_ STORAGE \_\_\_ DEEP \_\_\_ SHALLOW \_\_\_  
 LOCATION: ELEVATION 897.73' WATER SHED RIGHT FORK OF BIG SANDY  
 DISTRICT HENRY COUNTY CLAY  
 QUADRANGLE NEWTON

SURFACE OWNER B. BULLARD ACREAGE 55  
 OIL & GAS ROYALTY OWNER R.P. PARKER LEASE NO. 16932 LEASE ACREAGE 55

PROPOSED WORK: DRILL X CONVERT \_\_\_ DRILL DEEPER \_\_\_ REDRILL \_\_\_ FRACTURE OR STIMULATE \_\_\_ PLUG OFF OLD FORMATION \_\_\_ PERFORATE NEW FORMATION \_\_\_ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) \_\_\_\_\_

PLUG AND ABANDON \_\_\_ CLEAN OUT AND REPLUG \_\_\_  
 TARGET FORMATION INJUN ESTIMATED DEPTH 1890'  
 WELL OPERATOR COL. GAS TRANS. CORP. DESIGNATED AGENT J.R. HENNING  
 ADDRESS P.O. BOX 1273 ADDRESS SAME  
CHARLESTON, W. VA. 25325

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 MAR 16 2015

06/12/2015



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

API: 47-015-02024 P WELL NO.: 20696

FARM NAME: R.P. Parker

RESPONSIBLE PARTY NAME: Triad Hunter, LLC

COUNTY: Clay DISTRICT: Henry

QUADRANGLE: Newton

SURFACE OWNER: Rodney Bullard

ROYALTY OWNER: Black Stone Minerals LLP

UTM GPS NORTHING: 4265585

UTM GPS EASTING: 488036 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:

- Datum: NAD 1983, Zone: 17 North, Coordinate Units: meters, Altitude: height above mean sea level (MSL) – meters.
- Accuracy to Datum – 3.05 meters
- Data Collection Method:

Survey grade GPS \_\_\_\_: Post Processed Differential \_\_\_\_

Real-Time Differential \_\_\_\_

Mapping Grade GPS X: Post Processed Differential X

Real-Time Differential \_\_\_\_

- 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 Smith*  
Signature

Geologist  
Title

RECEIVED  
Office of Oil and Gas  
MAR 26 2015  
West Virginia Department of Environmental Protection  
6/17/15  
Date

I

Operator: TRIAD HUNTER, LLC

API: 1502024

WELL No: 20696

Reviewed by: GOS Date: 6/10/15

5 Day End of Comment: 3/24/15

### CHECKLIST FOR FILING A PERMIT

#### Plugging

- WW-4B
- Inspector signature on WW-4B
- Completion / Well Records of Previous Work
- WW-4A (Notarized)
- Certified Mail Receipts, Waivers, or Affidavits of Personal Service
- Surface Owner Waiver
- Coal Owner / Lessee /Operator Waiver
- WW-9 (Page 1) (Notarized)
- Inspector Signature on WW-9 (Optional)
- Topographic Map of location of well
- WW-7

#### OR

- Mylar Plat (Surface owner on plat matches WW-4A)
- Bond
- Company is Registered with the SOS
- Worker's Compensation / Unemployment Insurance account is OK
- ~~\$100.00~~ check (\$0.00 if no pit)