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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 17, 2015

**WELL WORK PLUGGING PERMIT**

**Plugging**

This permit, API Well Number: 47-1502509, 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: 21981

Farm Name: BULLARD, BURL

**API Well Number: 47-1502509**

**Permit Type: Plugging**

Date Issued: 06/17/2015

**Promoting a healthy environment.**

**06/19/2015**

## 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 # 21981  
 3) API Well No.: 47 - 015 - 2509 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

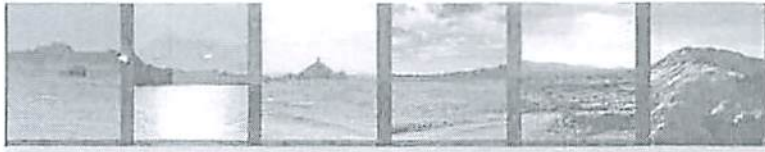
Subscribed and sworn before me this 22nd day of January, 2015  
Elaine Beth R. Juby  
 My Commission Expires 2-29-16  
 Notary Public



ELAINE BETH R. JUBY  
 Notary Public  
 in and for The State of Ohio  
 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

15-2509P

R.P. Parker

# 20695

# 20696

# 21977

# 21980

# 21981

{ 5 Wells }

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OFFICIAL USE

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



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

PS Form 3800, August 2006 See Reverse for Instructions

915 Greenbag Road  
Morgantown WV 26508  
Toll Free 888.292.0001  
Fax 304.292.0283



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WW-4B

API No.	<u>47-015-2509</u>
Farm Name	<u>R.P. Parker</u>
Well No.	<u>21981</u>

**INSTRUCTIONS TO COAL OPERATORS  
OWNERS AND LESSEE**

The well operator named on the obverse side of WW-4 (B) is about to abandon the well described in the enclosed materials and will commence the work of plugging and abandoning said well on the date the inspector is notified. Which date shall not be less than five days after the day on which this notice and application so mailed is received, or in due course should be received by the Department of Environmental Protection Office of Oil & Gas.

This notice and application is given to you in order that your respective representatives may be present at the plugging and filling of said well. You are further notified that whether you are represented or not the operator will proceed to plug and fill said well in the manner required by Section 24, Article 6, Chapter 22 of the Code and given in detail on obverse side of this application.

NOTE: If you wish this well to be plugged according to 22-6-24(d) then as per Regulation 35CSR4-13.9 you must complete and return to this office on form OB-16 "Request by Coal Operator, Owner, or Lessee for plugging" prior to the issuance of this plugging permit.

**WAIVER**

The undersigned coal operator \_\_\_\_/ owner \_\_\_\_/ lessee \_\_\_\_/ of the coal under this well location has examined this proposed plugging work order. The undersigned has no objection to the work proposed to be done at this location, provided, the well operator has complied with all applicable requirements of the West Virginia Code and the governing regulations.

Date: \_\_\_\_\_

\_\_\_\_\_

By: \_\_\_\_\_

Its \_\_\_\_\_

**Received  
Office of Oil & Gas  
MAR 16 2015**

1) Date January 20, 20 15  
2) Operator's  
Well No. R.P. Parker # 21981  
3) API Well No. 47-015 - 2509 P

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 947' 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 Name Ed Gainer  
Address P.O. Box 821  
Spencer, WV 25276  
9) Plugging Contractor Name N/A  
Address \_\_\_\_\_

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 perforations

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

100' - Elevation plug @ 950' ( inside 4 1/2" csg.) .

~~No Surface Casing Plug!~~ GCS 6/16/15

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

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

2. Gel spacers between all cement plugs.

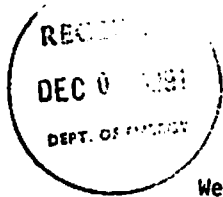
3. No coal seams reported.

ELECT MONUMENT W/API #  
GCS 6/16/15

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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 [Signature] Date 3/9/15



State of West Virginia  
DEPARTMENT OF ENERGY  
Division of Oil and Gas

Well Operator's Report of Well Work

Farm name: BULLARD, BURL

Operator Well No.: 21981

LOCATION: Elevation 946.70

Quadrangle: NEWTON

District: HENRY

County: CLAY

Latitude: 1795 Feet South of 38 Deg. 32 Min. 30 Sec.

Longitude: 3620 Feet West of 81 Deg. 7 Min. 30 Sec.

Company: COLUMBIA NATURAL RESOURCES  
P. O. BOX 6070  
CHARLESTON, WV 25362-0070

Agent: JOSEPH E. CAMPBELL

Inspector: HOMER DOUGHERTY

Permit Issued: 06/17/91

Well Work Commenced: 07/15/91

Well Work Completed: 07/21/91

Verbal Plugging

Permission granted on: \_\_\_\_\_

Rotary X Cable \_\_\_\_\_ Rig \_\_\_\_\_

Total Depth (feet) 2000

Fresh water depths (ft) \_\_\_\_\_

Salt water depths (ft) \_\_\_\_\_

Is coal being mined in area (Y/N)? N

Coal Depths (ft): \_\_\_\_\_

Casing & Tubing	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
11-3/4	44	44	31
8-5/8	266	266	266
4-1/2	2000	1980	203

OPEN FLOW DATA Liquid Injection Well

Producing formation Big Injun Pay zone depth (ft) 2000 ✓  
 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 pressure) after \_\_\_\_\_ Hours

Second producing formation \_\_\_\_\_ Pay zone depth (ft) \_\_\_\_\_  
 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 pressure) after \_\_\_\_\_ Hours

NOTE: ON BACK OF THIS FORM PUT THE FOLLOWING: 1). DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2). THE WELL LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE.

For: COLUMBIA NATURAL RESOURCES, INC.  
By: [Signature]  
Date: Dec 3 1991

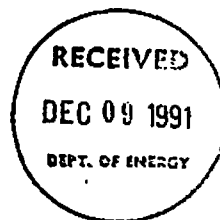
CLAY 2509 S

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# WELL 21981

## FORMATIONS

0	-	1200	SS/SH
1200	-	1408	Salt Sand
1408	-	1456	SS/SH
1456	-	1580	Maxon
1580	-	1710	Red Rock
1710	-	1953	Greenbrier
1953	-	1982	Injun
		2000	DTD



12396

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06/19/2015



WELL 21981



Perforations:

Stage 1, Hitwell select fire . 39 22 holes from 1859 - 1881

Stage: Pickled 4-1/2 Csg. w/8 Bbls Drip, 7 Bbls 15% HCL w/Penn 88  
Dumped 150 Gal. 15% Fe Acid

1st stage from 1859 - 1881, 1350 gal. 15% FE Acid,  
Fill-up Breakdown w N<sub>2</sub> @ - PSI, Avg. Rate 5 BPM,  
ATP 650 PSI, Total H<sub>2</sub>O - Bbl., Total - sand,  
- # Total N<sub>2</sub> - Scf.

CLAY 2509.5

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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 4944494833

Watershed Right Fork of Big Sandy Creek Quadrangle Newton

Elevation 947' 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.

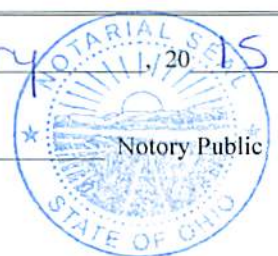
I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form and all attachments thereto and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is 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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MAR 16 2015

Subscribed and sworn before me this 22nd day of January, 2015

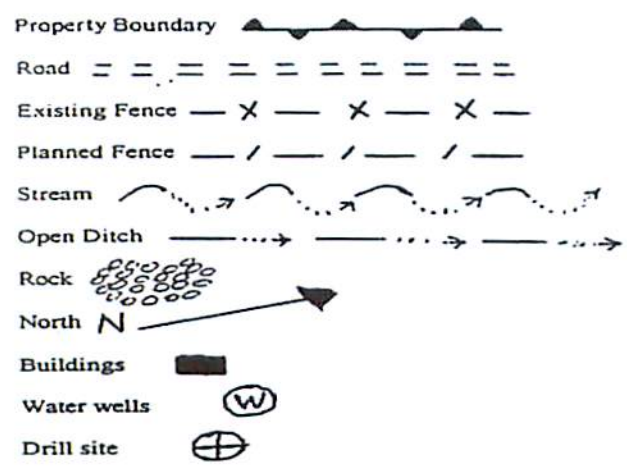
Elizabeth R. Tebay



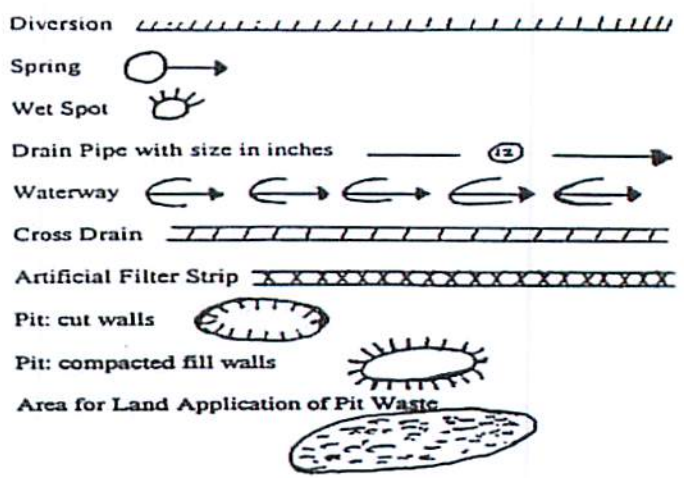
ELIZABETH R. TEBAY  
NOTARY PUBLIC  
In and For The State of Ohio  
My Commission Expires  
2-29-16

My commission expires 2-29-16

15-2509P



**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.

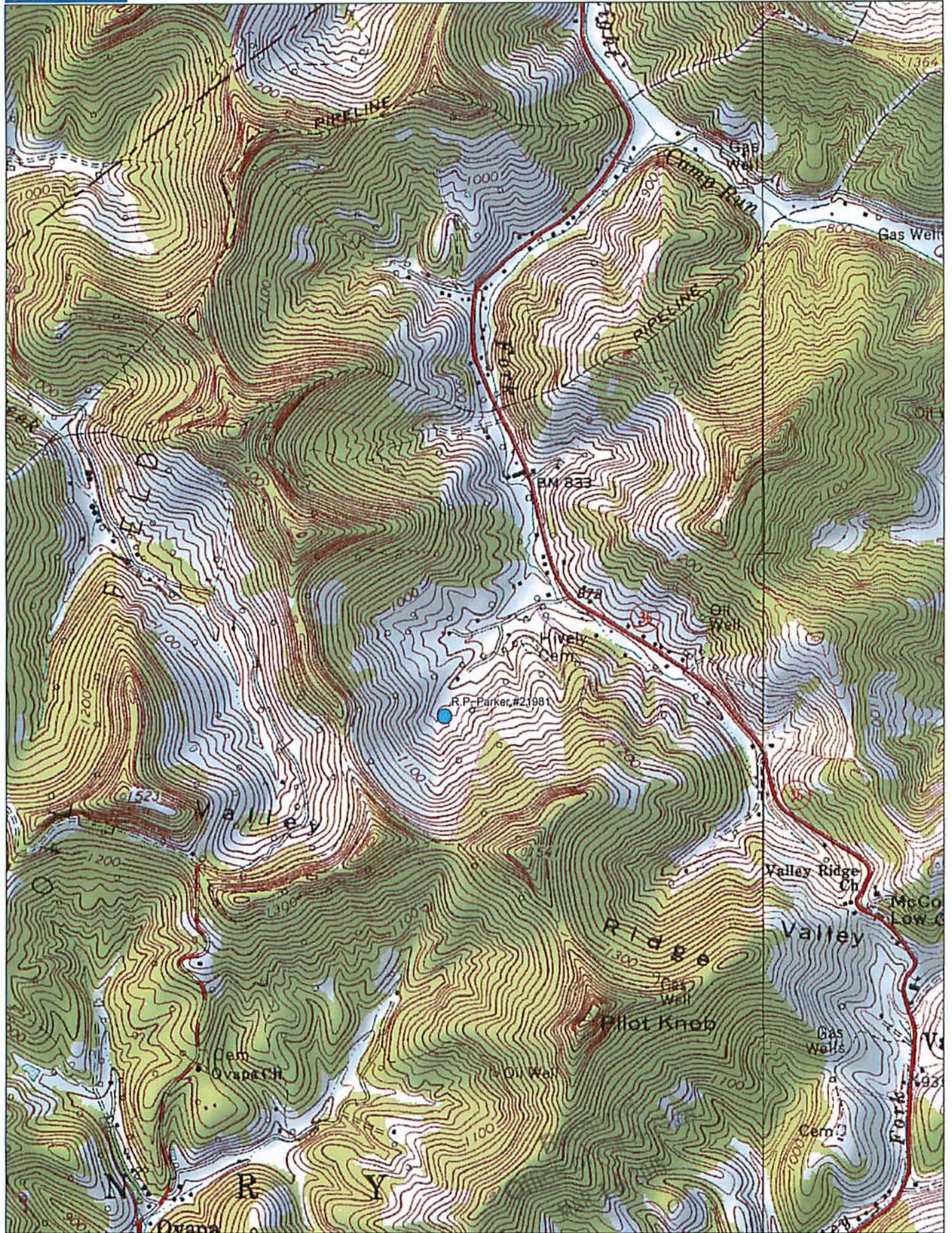
Plan Approved by: [Signature]

Comments: \_\_\_\_\_

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MAR 16 2015

Title: Inspector Date: 3/9/15

Field Reviewed? ( ) Yes (  ) No



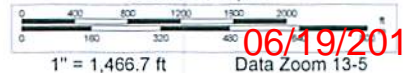
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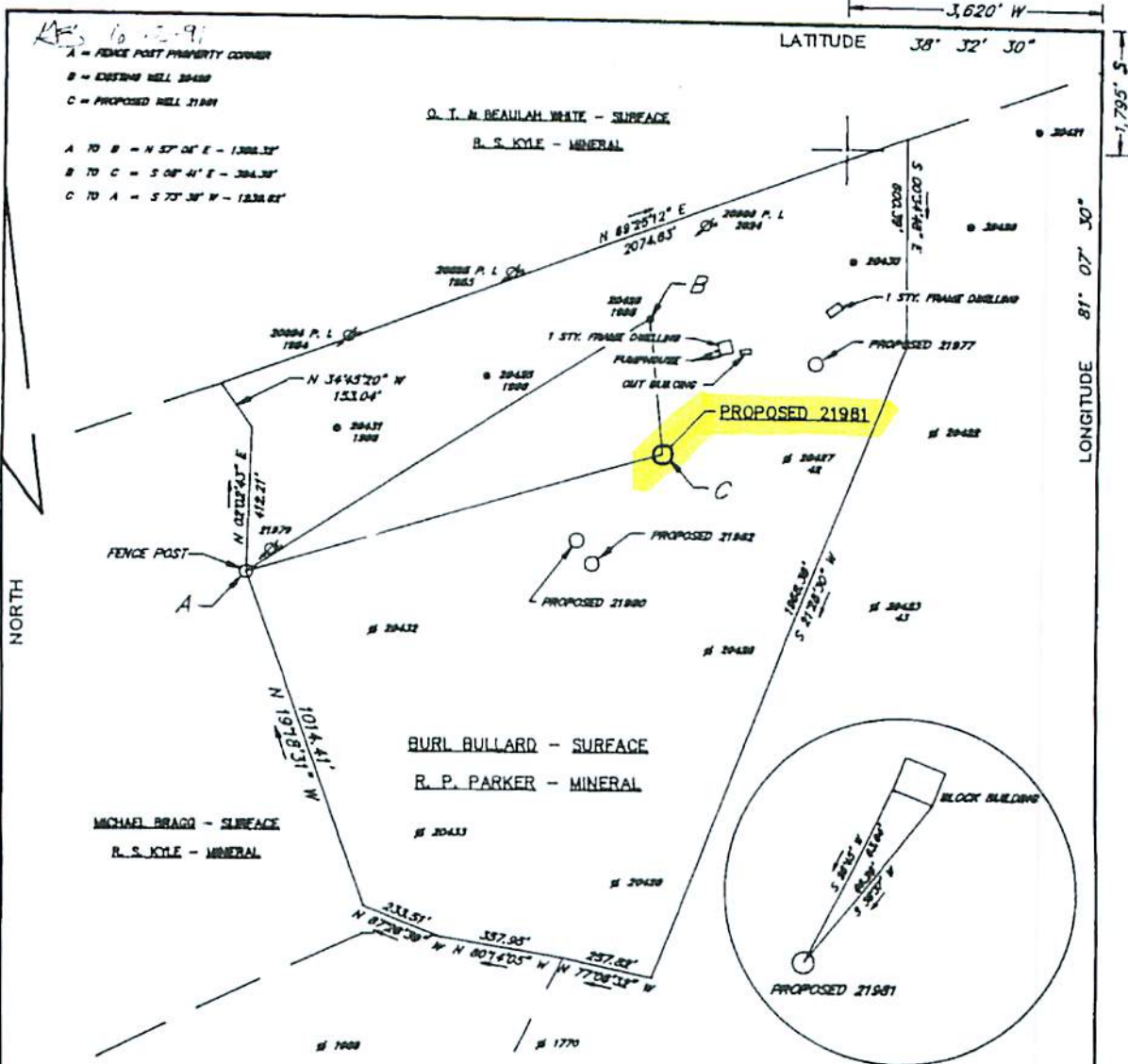
www.delorme.com



Scale 1 : 17,600



06/19/2015  
Data Zoom 13-5



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS

FILE NO. 21981 88-71  
 DRAWING NO. \_\_\_\_\_  
 SCALE 1" = 400'  
 MINIMUM DEGREE OF  
 ACCURACY 1:2000  
 PROVEN SOURCE OF  
 ELEVATION U.S.G.S. BRASS DISK 821EA  
NEAR OHAPA FLEV. 864.0

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 REGU-  
 LATIONS ISSUED AND PRESCRIBED BY THE DEPART-  
 MENT OF ENERGY.

(SIGNED) Richard E. Knott  
 R.P.E. \_\_\_\_\_ L.L.S. 817



**STATE OF WEST VIRGINIA**  
**DEPARTMENT OF ENERGY**  
**OIL AND GAS DIVISION**



DATE APRIL 15, 1991  
 OPERATOR'S WELL NO. 21981  
 API WELL NO. \_\_\_\_\_  
47 - 015 - 2509-L1  
 STATE COUNTY PERMIT

WELL TYPE: OIL  GAS  LIQUID INJECTION  WASTE DISPOSAL   
 (IF "GAS,") PRODUCTION  STORAGE  DEEP  SHALLOW   
 LOCATION: ELEVATION 946.7' WATERSHED RIGHT FORK OF BIG SANDY CREEK  
 DISTRICT HENRY COUNTY CLAY  
 QUADRANGLE NEWTON 7.5'  
 SURFACE OWNER BURL BULLARD ACREAGE 55  
 OIL & GAS ROYALTY OWNER R. P. PARKER LEASE ACREAGE 55  
 LEASE NO. 16932  
 PROPOSED WORK: DRILL  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 BIG INDIAN ESTIMATED DEPTH 1267'  
 WELL OPERATOR COLUMBIA NATURAL RESOURCES DESIGNATED AGENT J. E. CAMPBELL  
 ADDRESS P.O. BOX 6070, CHARLESTON, WY. 25362 ADDRESS P.O. BOX 6070, CHARLESTON, WY. 25362

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COUNTY NAME

PERMIT

06/19/2015

WW-7  
8-30-06



West Virginia Department of Environmental Protection  
Office of Oil and Gas

**WELL LOCATION FORM: GPS**

API: 47-015-02509 P WELL NO.: 21981

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: 4265381

UTM GPS EASTING: 488024 GPS ELEVATION: 950

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

3/17/15  
Date

06/19/2015

I

Operator: TRIAD HUNTER, LLC  
 API: 1502509  
 WELL No: 21981  
 Reviewed by: GCS Date: 6/16/15  
 05 Day End of Comment: 3/24/2015

**CHECKLIST FOR FILING A PERMIT**

**Plugging**

- WW-4B
- \*  Inspector signature on WW-4B *Surface plug in 4 1/2"*
- 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)~~