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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](http://www.dep.wv.gov)

June 12, 2015

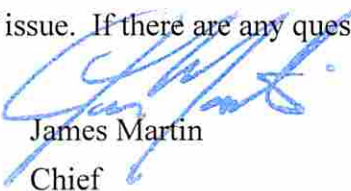
**WELL WORK PLUGGING PERMIT**

**Plugging**

This permit, API Well Number: 47-1502508, 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: 21980  
Farm Name: BULLARD, BURL  
**API Well Number: 47-1502508**  
**Permit Type: Plugging**  
Date Issued: 06/12/2015

**Promoting a healthy environment.**

**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 # 21980

3) API Well No.: 47 - 015 - 2508 *f*

**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.

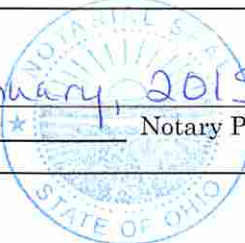
The reason you received these documents is that you have rights regarding the application which are summarized in the instructions on the reverses side. However, you are not required to take any action at all.

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.

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

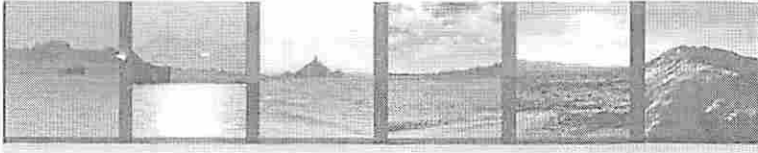
Well Operator Triad Hunter, LLC  
 By: Rocky Roberts *Rocky Roberts*  
 Its: Senior V.P. Appalachian Operations  
 Address 125 Putnam Street  
Marietta, Ohio 45750  
 Telephone (740) 374-2940

Subscribed and sworn before me this 22<sup>nd</sup> day of January, 2015  
*Elizabeth R. Tebay*  
 My Commission Expires 2-29-16  
 Elizabeth R. Tebay  
 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

15-2508P

- R.P. PARKER
- # 20695
- # 20696
- # 21977
- # 21980
- # 21981

{ 5 Wells }

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Total Postage & Fees	\$	

Postmark Here

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

PS Form 3800, August 2006 See Reverse for Instructions

7034 0150 0000 9042 1309

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

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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 986' GL Watershed Right Fork of Big Sandy Creek  
District Henry 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 perforations  
No Cut Plug - 4 1/2" casing cemented to surface!  
100' - Elevation plug @ 1000' ( inside 4 1/2" csg.)  
No Surface Casing Plug! ( Coal seam from 280'-283' behind 8 5/8" csg.)  
150' - 200' Surface plug in 4 1/2" casing.  
Note! 1. All cement plugs - Class A cement.  
2. Gel spacers between all cement plugs.

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



# WELL 21980

## Perforations:

Stage 1, Hitwell select fire . 39 24 holes from 1977 - 2001

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

1st stage from 1977 - 2001, 150 gal. 15% FE Acid,  
Fill-up Breakdown w N<sub>2</sub> @ 1050 PSI, Avg. Rate 5 BPM,  
ATP 950 PSI, Total H<sub>2</sub>O 32 Bbl., Total - sand,  
- # Total N<sub>2</sub> - Scf.

Received  
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MAR 16 2015

06/12/2015

# WELL 21980

## FORMATIONS

0	-	100	Surface Dirt
100	-	280	Sand
280	-	283	Coal
283	-	500	Sand
500	-	571	Sand/Shale
571	-	675	Slate Shale
675	-	1260	Sand/Shale
1260	-	1514	Salt Sand
1592	-	1678	Maxon
1899	-	1970	Big Lime
1970	-	2006	Injun
2034	-	2043	Squaw
		2110	DTD

CAR 25085

12395

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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.: 21980  
LOCATION: Elevation 1080.00 Quadrangle: NEWTON

District: HENRY County: CLAY  
Latitude: 2040 Feet South of 38 Deg. 32 Min. 30 Sec.  
Longitude 3860 Feet West of 81 Deg. 7 Min. 30 Sec.

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

Casing & Tubing	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
11-3/4	39	39	18
8-5/8	320	320	81
4-1/2	2110	2082	405

Agent: JOSEPH E. CAMPBELL

Inspector: HOMER DOUGHERTY  
Permit Issued: 06/17/91  
Well Work Commenced: 06/24/91  
Well Work Completed: 07/04/91

Verbal Plugging  
Permission granted on: \_\_\_\_\_  
Rotary X Cable \_\_\_\_\_ Rig  
Total Depth (feet) 2110  
Fresh water depths (ft) \_\_\_\_\_  
Salt water depths (ft) \_\_\_\_\_

Is coal being mined in area (Y/N)? N  
Coal Depths (ft): 280 - 283

OPEN FLOW DATA Injection Well/No Open Flow

Producing formation Big Injun Pay zone depth (ft) 2110  
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

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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: Joseph E. Campbell  
Date: 12-11-91

# WELL 21980

## Perforations:

Stage 1, Hitwell select fire . 39 24 holes from 1977 - 2001

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

1st stage from 1977 - 2001, 150 gal. 15% FE Acid,  
Fill-up Breakdown w N<sub>2</sub> @ 1050 PSI, Avg. Rate 5 BPM,  
ATP 950 PSI, Total H<sub>2</sub>O 32 Bbl., Total - sand,  
- # Total N<sub>2</sub> - Scf.

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MAR 16 2015

12-11-07 Date: 12-11-07 Date: 12-11-07 Date: 12-11-07 Date:

06/12/2015

# WELL 21980

## FORMATIONS

0	-	100	Surface Dirt
100	-	280	Sand
280	-	283	Coal
283	-	500	Sand
500	-	571	Sand/Shale
571	-	675	Slate Shale
675	-	1260	Sand/Shale
1260	-	1514	Salt Sand
1592	-	1678	Maxon
1899	-	1970	Big Lime
1970	-	2006	Injun
2034	-	2043	Squaw
		2110	DTD

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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 986' 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.

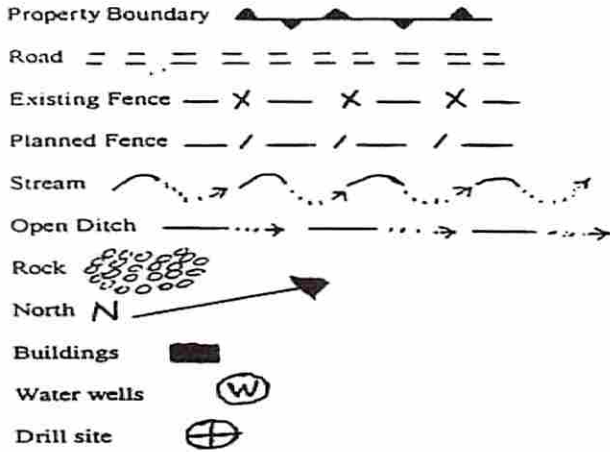
Company Official Signature [Signature]  
Company Official (Typed Name) Rocky Roberts  
Company Official Title Senior V.P. Appalachian Operations

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Office of Oil & Gas  
MAR 16 2015

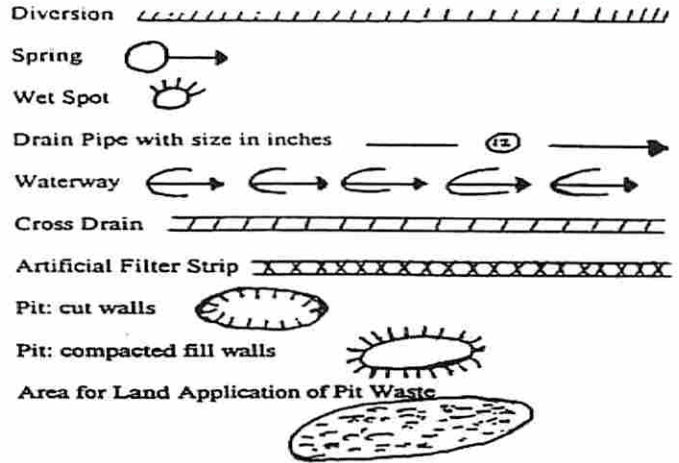
Subscribed and sworn before me this 22nd day of January, 2015

Elizabeth R. Tebey  
Notary Public  
ELIZABETH R. TEBEY  
NOTARY PUBLIC  
In and For The State of Ohio  
My Commission Expires  
2-29-16  
My commission expires 2-29-16

15-2508P



**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.

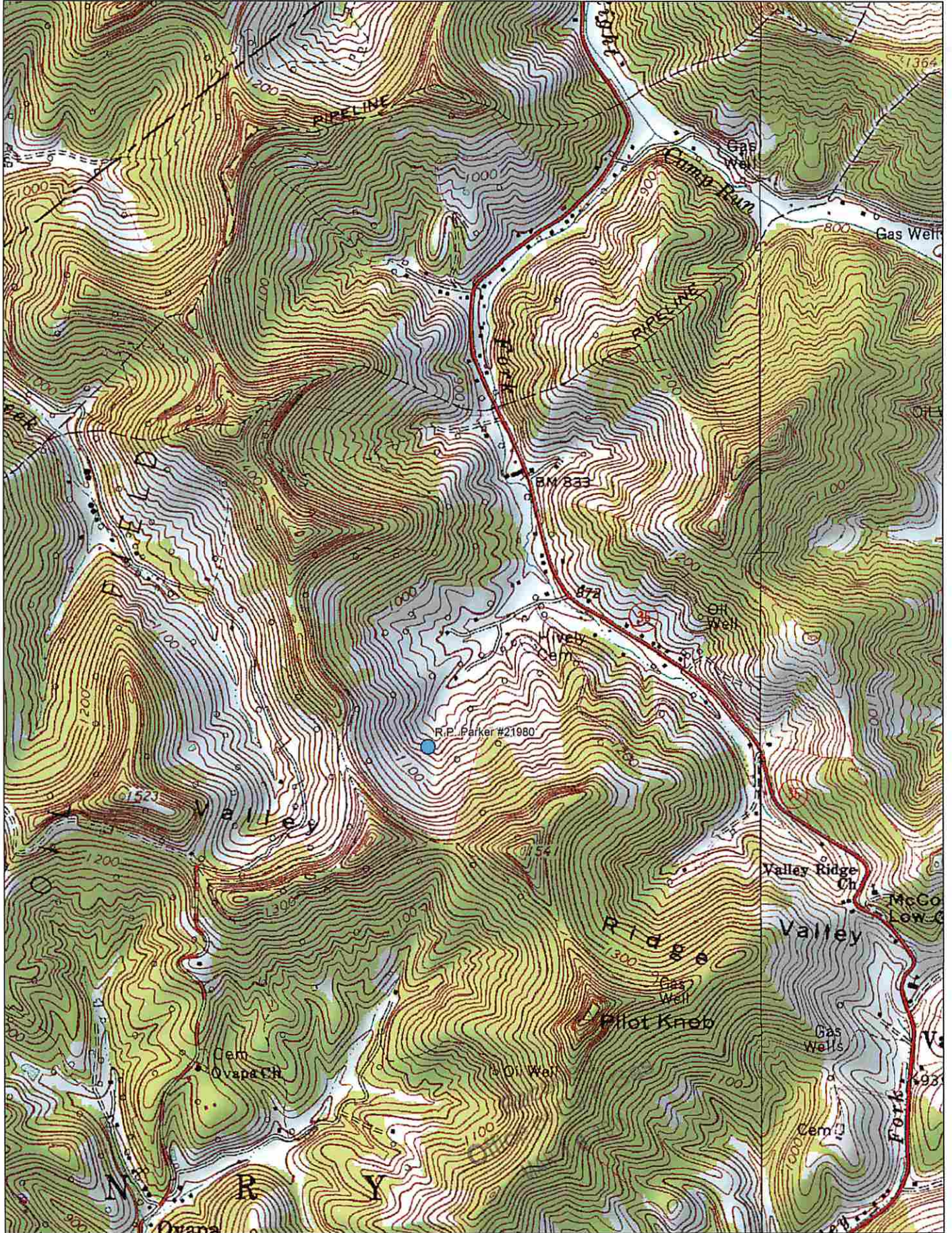
Plan Approved by:

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

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Title: Inspector Date: 3/9/15

Field Reviewed? ( ) Yes ( X ) No



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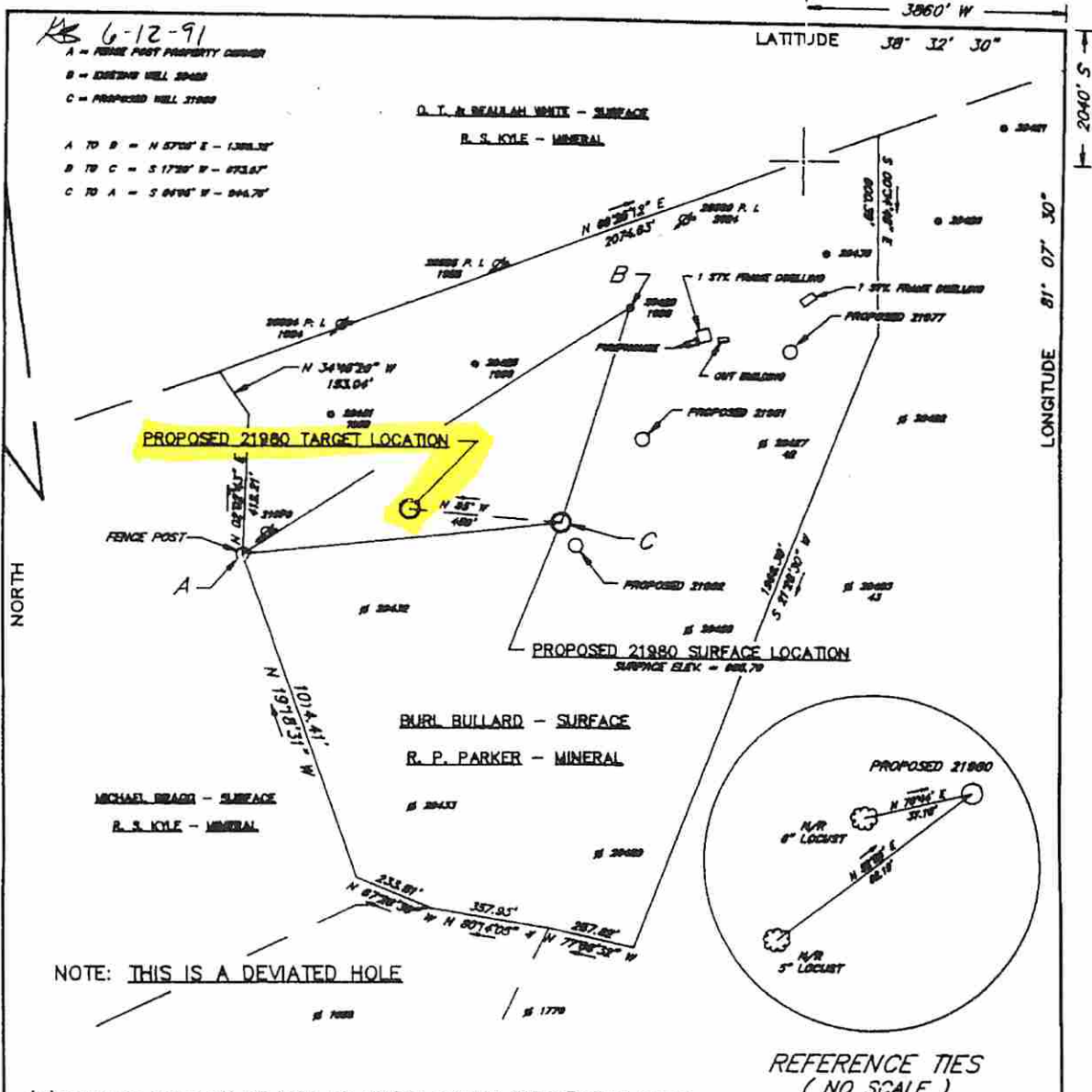
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06/12/2015

Data Zoom 7.5



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

FILE NO. 21980 BB-71  
 DRAWING NO. \_\_\_\_\_  
 SCALE 1" = 400'  
 MINIMUM DEGREE OF ACCURACY 1:2000  
 PROVEN SOURCE OF ELEVATION U.S.G.S. BRASS DISK 42EA NEAR QUAPA ELEV. BEA.D.

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

PLATE SEAL

STATE OF WEST VIRGINIA  
 DEPARTMENT OF ENERGY  
 OIL AND GAS DIVISION

DATE APRIL 15  
 OPERATOR'S WELL NO. 21980  
 API WELL NO. \_\_\_\_\_

WELL TYPE: OIL  GAS  LIQUID INJECTION  WASTE DISPOSAL   
 (IF "GAS,") PRODUCTION  STORAGE  DEEP  SHALLOW

LOCATION: ELEVATION 985.70 WATERSHED RIGHT FORK OF BIG SANDY CREEK  
 DISTRICT HEWRY 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 MAIN ESTIMATED DEPTH 1856'  
 WELL OPERATOR COLUMBIA NATURAL RESOURCES DESIGNATED AGENT J. E. CAMPBELL  
 ADDRESS P.O. BOX 6070 CHARLESTON WV. 25362 ADDRESS P.O. BOX 6070 CHARLESTON WV. 25362

CLAY COUNTY NAME  
 2508 PERMIT

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WW-7  
8-30-06



West Virginia Department of Environmental Protection  
Office of Oil and Gas

**WELL LOCATION FORM: GPS**

API: 47-015-02508 P WELL NO.: 21980

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: 4265274

UTM GPS EASTING: 487973 GPS ELEVATION: 1059

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 X: Post Processed Differential X

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.

*Ron Smith*  
Signature

Geologist  
Title

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Office of Oil and Gas  
NOV 26 2015  
11/17/15  
WV Department of  
Environmental Protection

06/12/2015



Operator: TRIAD HUNTER, LLC  
API: 1502508  
WELL No: 21980  
Reviewed by: GCS Date: 6/10/15  
05 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)

06/12/2015