



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

June 12, 2015

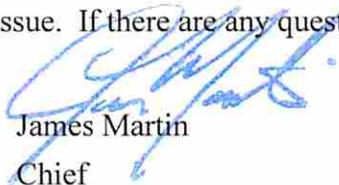
WELL WORK PLUGGING PERMIT

Plugging

This permit, API Well Number: 47-1502507, 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: 21977
Farm Name: BULLARD, BURL
API Well Number: 47-1502507
Permit Type: Plugging
Date Issued: 06/12/2015

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: 1/20/2015
2) Operator's Well Number
R.P. Parker # 21977

3) API Well No.: 47 - 015 - 2507 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.

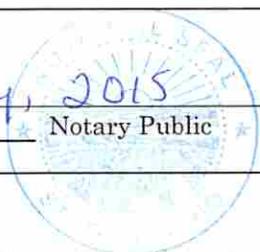
The reason you received these documents is that you have rights regarding the application which are summarized in the instructions on the reverses side. However, you are not required to take any action at all.

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.

Received
Office of Oil & Gas
MAR 16 2015

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 22nd day of January, 2015



My Commission Expires _____

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 deprivacyoffier@wv.gov.



15-2507P

Rodney Bullard

R.P. Parker
20695

20696

21977

21980

21981

{ 5 wells }

7014 0150 0000 9042 1309

U.S. Postal Service™	
CERTIFIED MAIL™ RECEIPT	
(Domestic Mail Only; No Insurance Coverage Provided)	
For delivery information visit our website at www.usps.com®	
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

MPB
Expert Solutions.
www.morgantownprinting.com

803 Quarrier St, Suite 310
Charleston, WV 25301
Toll Free 888.292.0001
Fax 304.345.0644

1) Date January 20, 2015
2) Operator's
Well No. R.P. Parker # 21977
3) API Well No. 47-015 - 2507 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 920' 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 parts

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

100' - Elevation plug @ 925' (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

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.: 21977

LOCATION: Elevation 920.00

Quadrangle: NEWTON

District: HENRY

County: CLAY

Latitude: 1490 Feet South of 38 Deg. 32 Min. 30 Sec.

Longitude 3200 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: 07/23/91

Well Work Completed: 08/01/91

Verbal Plugging

Permission granted on: _____

Rotary X Cable _____ Rig

Total Depth (feet) 1980

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	21
8-5/8	253	253	64
4-1/2	1980	1980	451

Received
Office of Oil & Gas
MAR 16 2015

OPEN FLOW DATA No Open Flow/Rock Press. Injection Well

Producing formation Big Injun Pay zone depth (ft) 1980
 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: Joseph E. Campbell

Date: 9-30-91

WELL 21977

- Perforation - Hitwell select fire, 1 shot per foot from 1839 - 1856
- Fracturing - Pumped 32 Bbl 15% FE Acid and displaced w/29.5 bbl H₂O, ATP 1250 PSI, Swabbed well back. Prior to acid job, pickled 4-1/2 csg. w/7 Bbl Drip, 7 Bbl 25% HCL w/Penn 88.

FORMATIONS:

0	-	1190	Sand/Shale
1190	-	1540	Salt Sand
1540	-	1650	Mauch Chunk
1650	-	1680	Big Lime
1680	-	1710	Blue Monday
1710	-	1720	Pencil Cave
1720	-	1830	Greenbrier LS
1830	-	1855	Big Injun
1855	-	1880	Sand/Shale
1880	-	1890	Squaw
1890	-	1980	Shale
		1980	DTD

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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.: 21977

LOCATION: Elevation 920.00

Quadrangle: NEWTON

RECEIVED
Division of Energy

District: HENRY

County: CLAY

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Longitude: 3200 Feet West of 81 Deg. 7 Min. 30 Sec.

OCT 02 91

Permitting
Oil and Gas Section

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

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Oil and Gas Section

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1880	-	1890	Squaw
1890	-	1980	Shale
		1980	DTD

12394

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MAR 16 2015

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 920' 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.

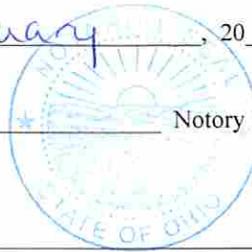
I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form and all attachments thereto and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is 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, 20 15

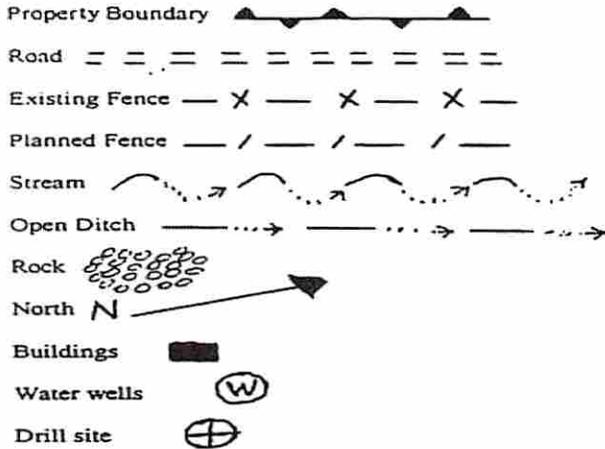
Elizabeth R. Today



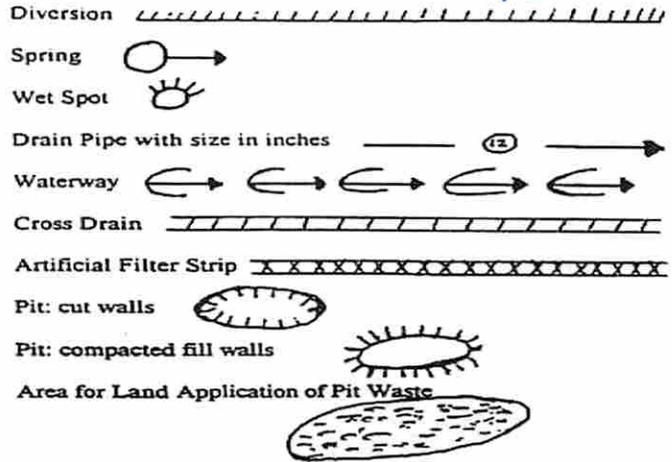
Notary Public
ELIZABETH R. TODAY
NOTARY PUBLIC
in and for The State of Ohio
My Commission Expires
2-29-16

My commission expires 2-29-16

15-2507P



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: _____

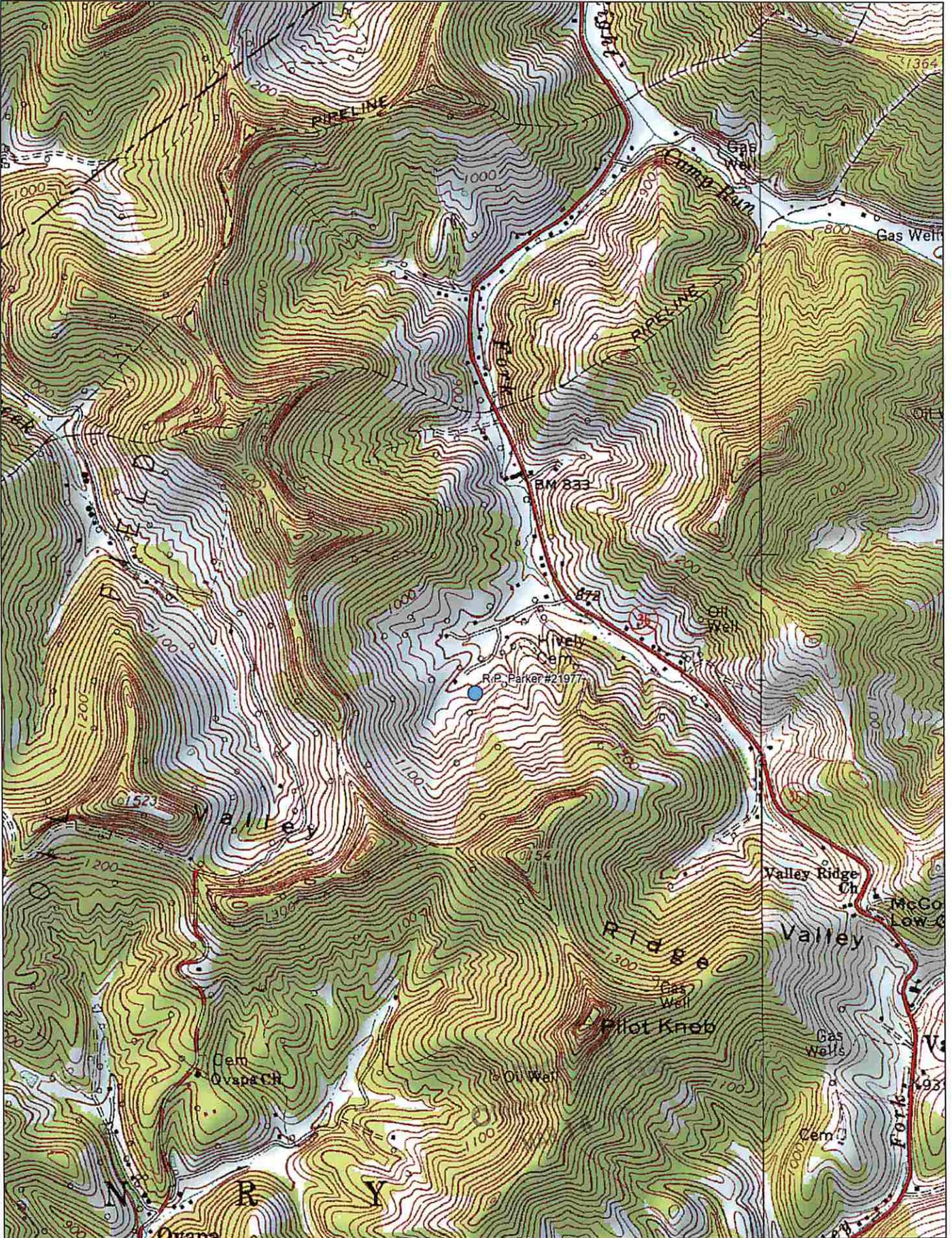
Title: Inspector

Date: 3/17/15

Field Reviewed? () Yes

(X) No

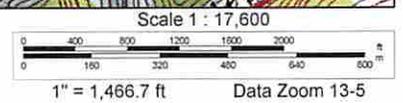
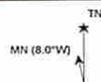
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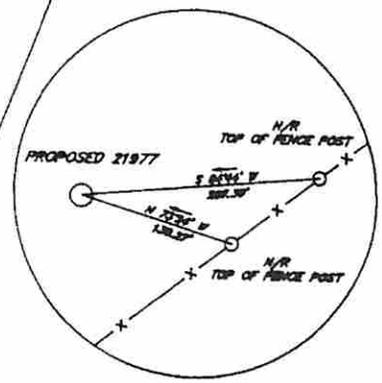
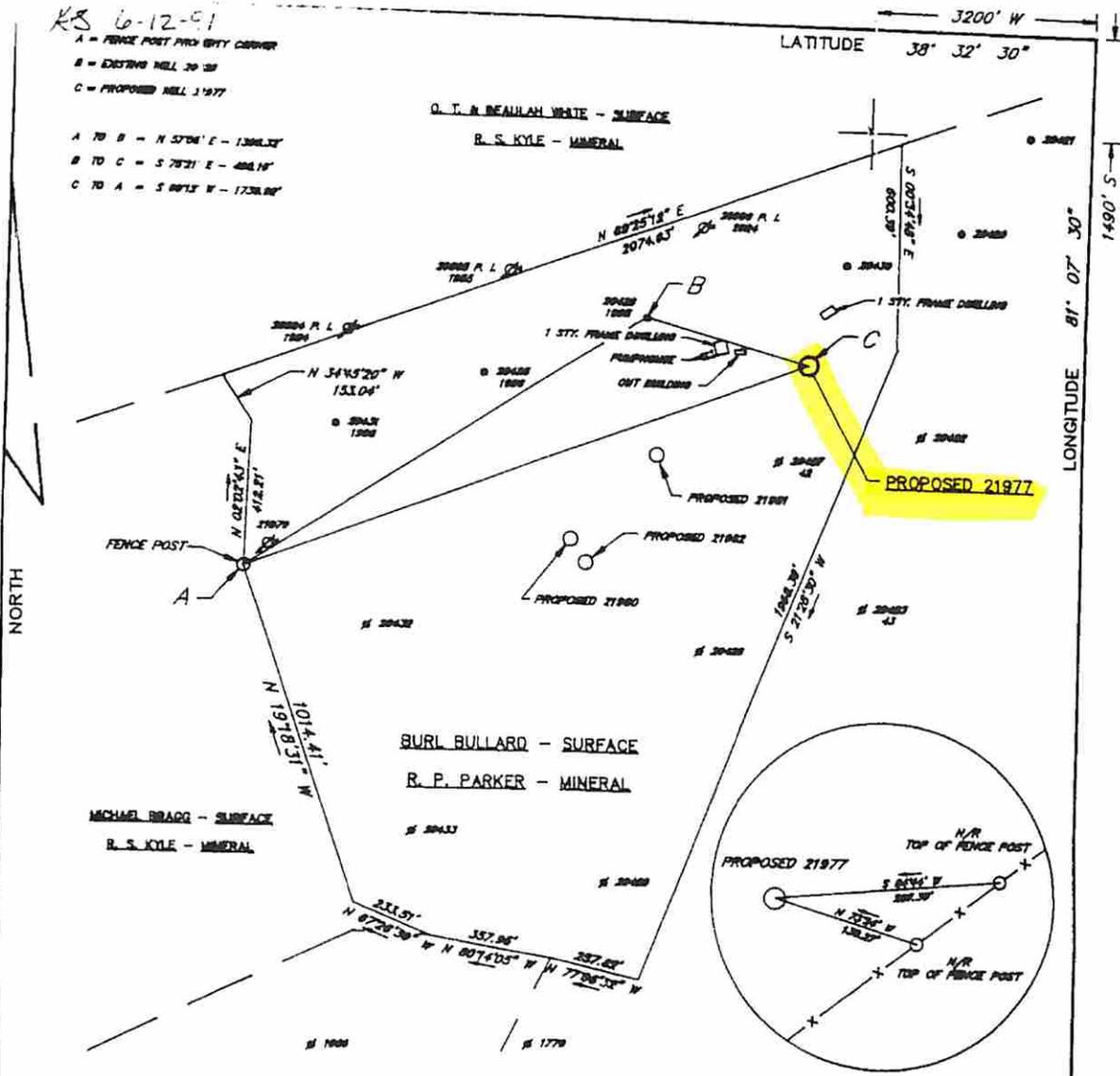
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www.delorme.com



KS 6-12-91

- A = FENCE POST PRO. BITY CORNER
- B = EXISTING WELL 20 20
- C = PROPOSED WELL 21977
- A TO B = N 57°04' E - 1396.32'
- B TO C = S 78°21' E - 406.16'
- C TO A = S 80°12' W - 1738.88'



REFERENCE TIES (NO SCALE)

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

FILE NO. 21977 88-71
 DRAWING NO. _____
 SCALE 1" = 400'
 MINIMUM DEGREE OF ACCURACY 1:2000
 PROVEN SOURCE OF ELEVATION U.S.G.S. BRASS DISK 82.6A
NEAR QUABA FLEY BRAD

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. Kuntz
 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. 21977
 API WELL NO. _____

WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL
 (IF "GAS,") PRODUCTION STORAGE DEEP SHALLOW
 LOCATION: ELEVATION 914.07 WATERSHED RIGHT FORK OF BIG SANDY CREEK
 DISTRICT HENRY COUNTY CLAY
 QUADRANGLE NEWTON 7.5'
 SURFACE OWNER BURL BULLARD
 OIL & GAS ROYALTY OWNER R. P. PARKER LEASE ACREAGE 55

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 HOLLOW ESTIMATED DEPTH 1914'
 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

Received
 Office of Oil & Gas
 MAR 16 2015

FEDERAL WM-6

CLAY COUNTY NAME 2507 L H PERMIT



West Virginia Department of Environmental Protection
Office of Oil and Gas

WELL LOCATION FORM: GPS

API: 47-015-02507 P WELL NO.: 21977

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: 4265468

UTM GPS EASTING: 488139 GPS ELEVATION: 932

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 Smith
Signature

Geologist
Title

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Office of Oil and Gas
MAR 24 2015
3/17/15
WV Department of Environmental Protection

I

Operator: TRIAD HUNTER, LLC
 API: 1502507
 WELL No: 21977
 Reviewed by: GCS Date: 6/10/15
 45 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)