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

April 30, 2015

WELL WORK PLUGGING PERMIT

Plugging

This permit, API Well Number: 47-8700443, 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 penalities 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: M. J. SNODGRASS 23
Farm Name: SNODGRASS, M. J.
API Well Number: 47-8700443
Permit Type: Plugging
Date Issued: 04/30/2015

8700443P

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.
4. This well is under a consent order and must be plugged under the terms of that agreement.

8700443P

WW-4B
Rev. 2/01

1) Date January 20, 2015
2) Operator's Well No. M.J. Snodgrass # 23
3) API Well No. 47- 087 - 0443

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 1033' GL Watershed Trace Fork
District Smithfield County Roane Quadrangle Tariff

6) Well Operator Triad Hunter, LLC
Address 125 Putnam Street
Marietta, Ohio 45750

7) Designated Agent Kim Arnold
Address P.O. Box 154
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:

*1. Pump 50-75 sacks Class A Cement in shot hole. (Shot Hole from 2057'-2079') Tag plug to make sure hole is full
CEMENT FROM TD TO 1910'.
*2. 100' - Cut plug (4.5" csg.) Estimated cement top @ 1474'.
*3. 100' - Elevation plug @ 1,050' (Try to cut/rip and pull 7" casing.)
*4 150' - 200' Surface plug inside 7" casing unless you're able to pull the 7" csg.

Note! 1. All cement plugs - Class A cement.
2. Gel spacers between all cement plugs.
3. No coal seams reported.

*1 CEMENT FROM TD TO 1910'. TAG PLUG, ADD CEMENT IF NEEDED
*2 DOES NOT APPEAR TO BE ANY 4½"
*3 FREEPOIN CUT/RIP 7" & POOH.
*4 SET 100' CEMENT PLUG FROM 1550' – 1450'.
*5 SET 100' CEMENT PLUG @ 8" CASING SEAT FROM 780' – 680'.
*6 SET 250' CEMENT PLUG FROM SURFACE TO 250'.

INSTALL MONUMENT PER WV CODE.

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

Received
Office of Oil & Gas
MAR 16 2015

Work order approved by inspector _____ Date _____

8700443P

WILD CAT WELL RECORD

Case No. 60922 Acres 600 Farm Name M. J. Snodgrass Well No. 23

S. E. W.		Location Made	Oct. 26, 1943	Purchased From
Civil District	Smithfield	Rig Completed	Dec. 14, 1943	Date Purchased
County	Roane	Dr'g Commenced	Jan. 5, 1944	Sold to
State	W. Va.	Dr'g Completed	Feb. 17, 1944	Date Sold
GAS OIL Rights Owned By		Dr'g Contractor	Laurence Drlg. Co.	Date Abandoned

FORMATION

Kind	Top	Bottom	Steel Line Meas.	Tests
Conductor		14		
Blue Slate	100	240		
Sand	240	283		
Little Dunkard	644	692		
Big Dunkard	715	880		
Sand	945	1220		
Sand	1400	1443		
Salt Sand	1518	1548		
Salt Sand	1565	1748		
Water	1680			Hole full
Maxon Sand	1794	1834		
Little Lime	1890	1928		
Pencil Cave	1928	1934		
Big Lime	1934	2053		
Oil & Water	1996	2000		3 Blrs. water per day
Pocket	2017			Blew out
Big Injun	2053	2080		
Oil & Gas	2057	2080		
T. D.		2081		

Natural gas test: 1.1 water 3/4" opening
or 13,636 Cu. Ft.
Natural oil test: Filled up 50' in 16 Hrs.

CASING RECORD

Size	Bottom Casing Steel Line	Put in Well Tally Meas.	Pulled Tally Meas.	Cemen
10"	238'	238'	238'	Date
8¼"	774'	780'	276'	Size Csg.
7"	1960'	1974'		Top Csg.
				Bot. Csg.

PACKERS AND SHOES

Kind	Size	Depth Set	Date

TORPEDO RECORD

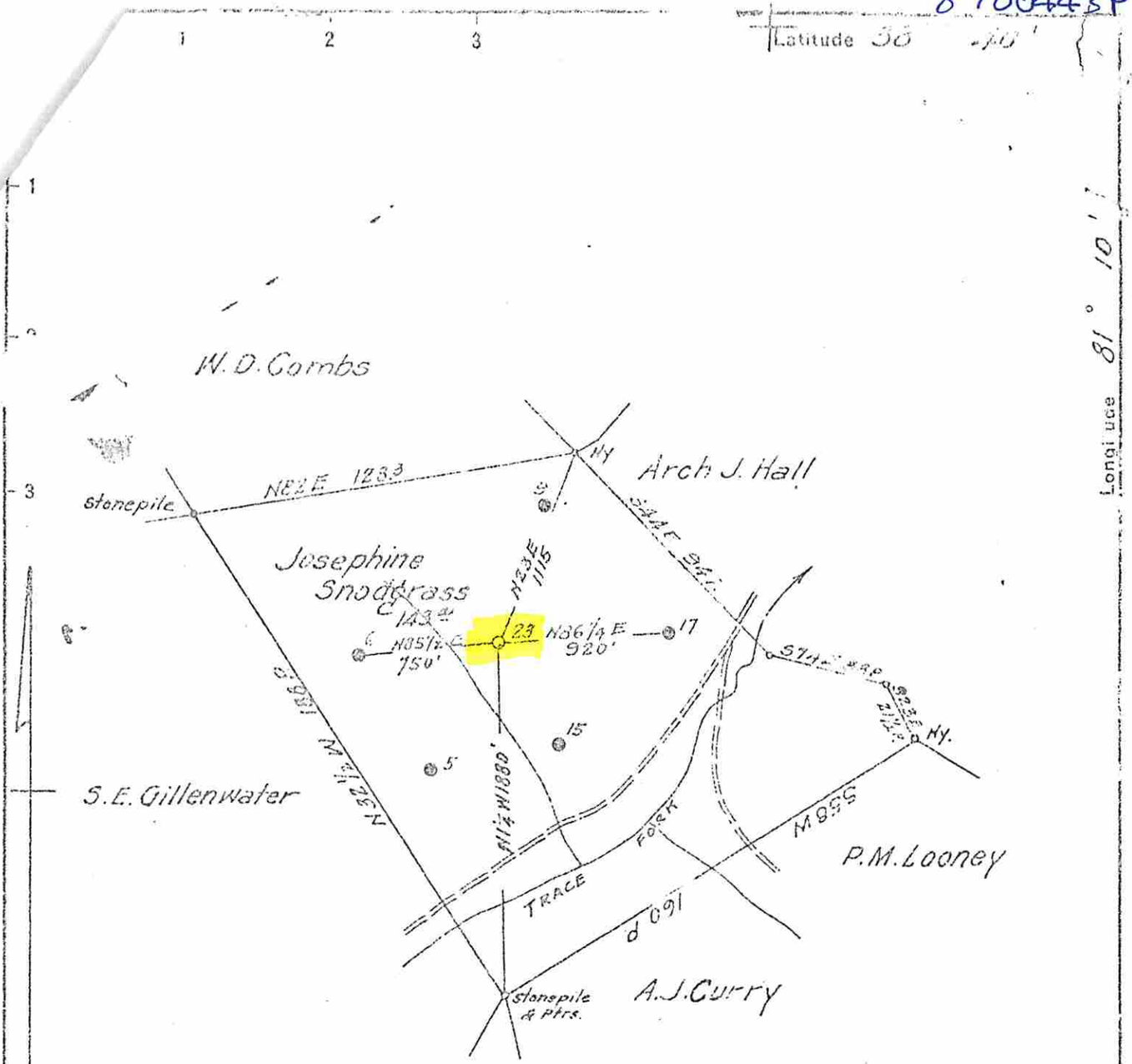
Date	No. Qts.	Size Shell	Top Shot	Bottom	Re
Shot 3/1/44	40	3½x22'	2057	2079	Bomb

Received
Office of Oil & Gas
MAR 16 2015

Initial Prod.	Sand	* At Completion	* 30 Days After	*
Oil				
Gas				

APPROVED

8700443P



No Coal

Surface: F.L. Boggs
Tariff, W.Va.

Fracture X

New Location ☒
Drill Deeper ☐
Abandonment ☐

S53 W34 Map 62

Company South Penn Oil Co.
Address Parkersburg
Farm M.J. Snodgrass
Tract ____ Acres 600 Lease 60929
Well (Farm) No. 23 Serial No. ____
Elevation (Spirit Level) 1033.46
Quadrangle Otter
County Roane District Smithfield
Engineer E.C. Tabler
Engineer's Registration No. ____
File No. ____ Drawing No. ____
Date 10-26-43 Scale 1" = 800'

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION
CHARLESTON

WELL LOCATION MAP

FILE NO. R O A - 443

+ Denotes location of well on United States Topographic Maps, scale 1 to 62,500, latitude and longitude lines being represented by border lines as shown.

— Denotes one inch spaces on border line of original tracing.

8700443P

WW-4A
Revised 6-07

1) Date: 1/20/2015
2) Operator's Well Number
M.J. Snodgrass # 23

3) API Well No.: 47 - 087 - 0443

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS
NOTICE 0F APPLICATION TO PLUG AND ABANDON A WELL

4) Surface Owner(s) to be served:
(a) Name: Lee Boggs
Address: 1562 Tariff Road
Left Hand, WV 25251
(b) Name:
Address:
(c) Name:
Address:

5) (a) Coal Operator
Name: N/A
Address:
(b) Coal Owner(s) with Declaration
Name: N/A
Address:
Name:
Address:
(c) Coal Lessee with Declaration
Name: N/A
Address:

6) Inspector: Ed Gainer
Address: P.O. Box 821
Spencer, WV 25276
Telephone: (304) 389-7582

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 22nd day of January, 2015
Elizabeth R. Tebo Notary Public
My Commission Expires 2-29-16

ELIZABETH R. TEBO
NOTARY PUBLIC
State Of Ohio
My Commission Expires 2-29-16

Received
Office of Oil & Gas
MAR 16 2015

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.

8700443P

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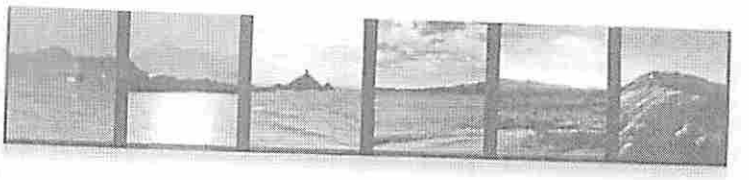
Return Receipt Fee (Endorsement Required)	
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	$

Postmark Here

MAR 17 2015

Sent To: Lee Boggs
Street, Apt. No.; or PO Box No.: 1562 Tariff Rd
City, State, ZIP+4: Left Hand WV 25251

PS Form 3800, August 2006 — See Reverse for Instructions



Lee Boggs

M.J. Snodgrass

#15, #23, #103, #104

(4 wells)

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

MRB
Expert Solutions.
www.morgantownprinting.com

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

8700443P

WW-4B

API No. 47-087-0443
Farm Name M.J. Snodgrass
Well No. 23

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 then 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 _____

8700443P

WW-9
Rev. 5/08

Page 1 of 2
API Number 47 - 087 - 0443
Operator's Well No. M.J. Snodgrass # 23

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 Trace Fork Quadrangle Tariff

Elevation 1033' GL County Roane District Smithfield

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

Will a synthetic liner be used in the pit? "No Pit".

ANY WELL EFFLUENT MUST BE CONTAINED IN TANKS AND DISPOSED OF PROPERLY. QWM

Proposed Disposal Method For Treated Pit Wastes:

_____ Land Application
_____ Underground Injection (UIC Permit Number_____)
_____ Reuse (at API Number_____)
_____ Off Site Dispposal (Supply form WW-9 for disposal location)
X Other (Explain Fluids collected in surface tank and hauled to Ovapa Injection Facility.

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 [signature]

Company Official (Typed Name) Rocky Roberts

Company Official Title Senior V.P. Appalachian Operations

Received
Office of Oil & Gas
MAR 16 2015

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

Elizabeth R Teby Notory Public

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

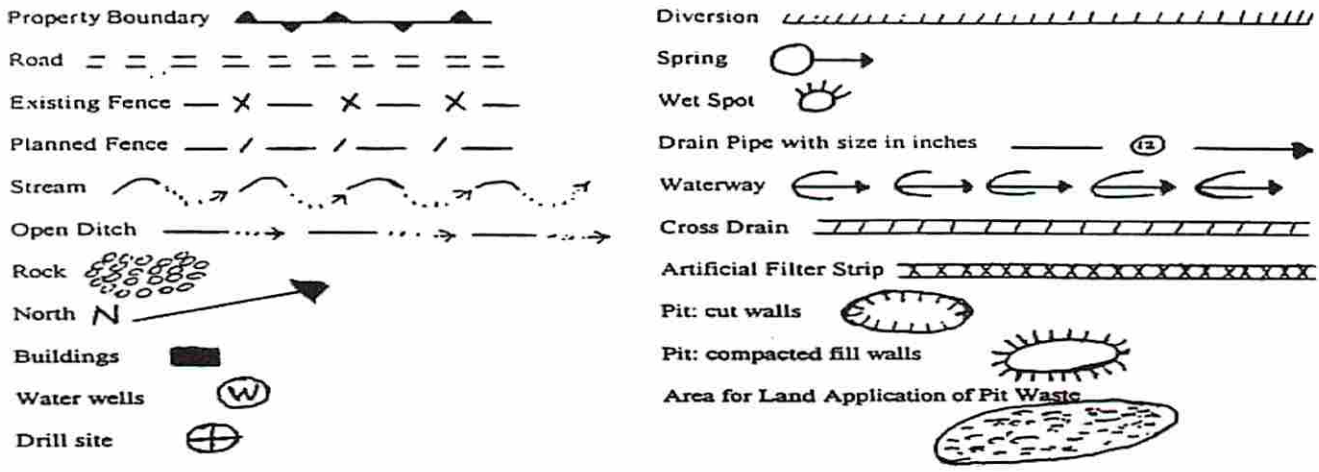
My commission expires 2-29-16

8700443P

Form WW-9

Operator's Well No. M.J. Snodgrass # 23

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

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: 3/9/15

Field Reviewed? (____) Yes (X) No

Received
Office of Oil & Gas
MAR 16 2015

8700443P

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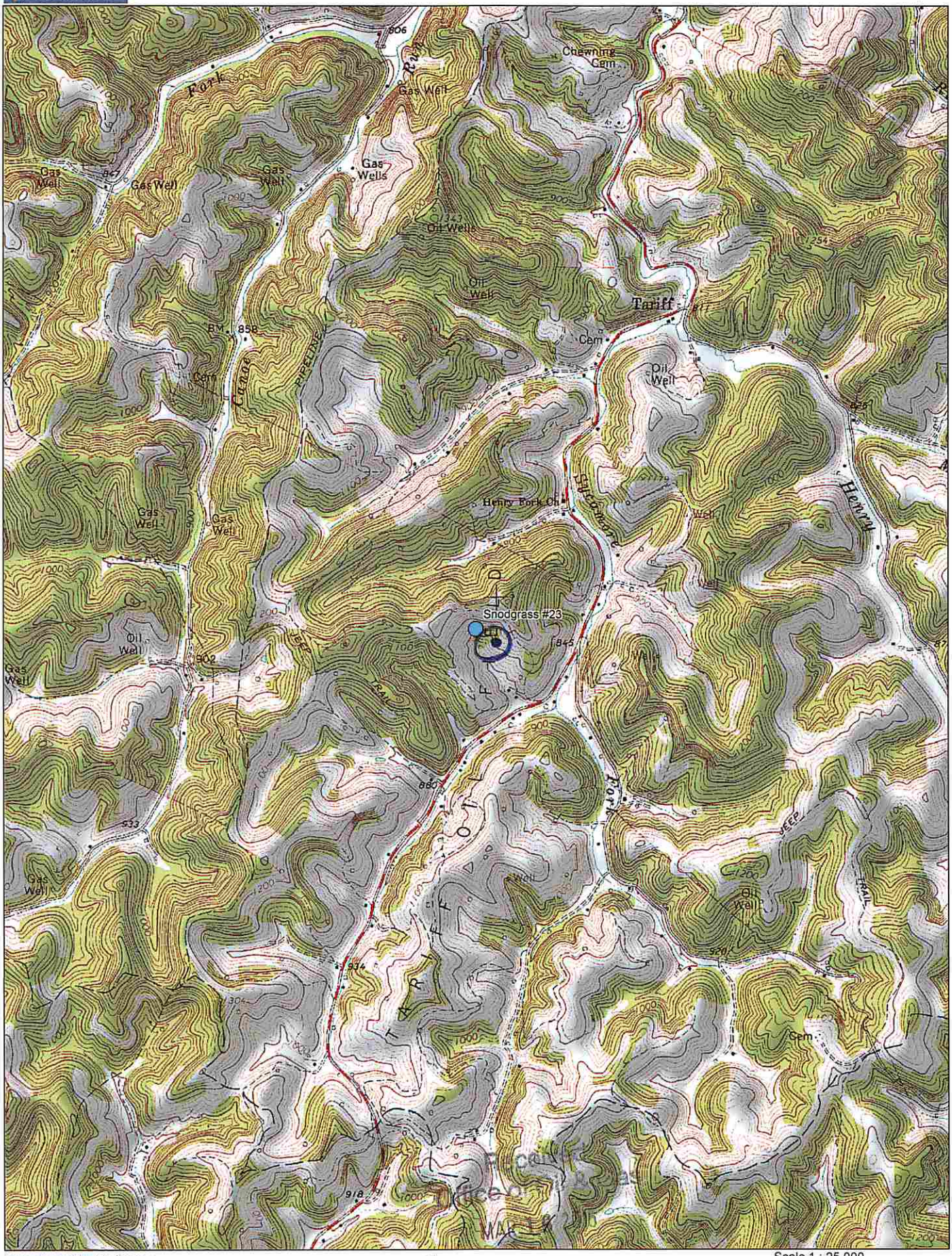
XMap® 7



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TN

MN (8.6°W)

Scale 1 : 25,000

0 600 1200 1800 2400 3000 ft

0 200 400 600 800 1000 m

1" = 2,083.3 ft

Data Zoom 13-0

8700443P

WW-7
8-30-06

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

API: 47-087-00443 **WELL NO.:** 23

FARM NAME: M.J. Snodgrass

RESPONSIBLE PARTY NAME: Triad Hunter, LLC

COUNTY: Roane **DISTRICT:** Smithfield

QUADRANGLE: Tariff

SURFACE OWNER: Lee Boggs

ROYALTY OWNER: TUW Anna Lee Collins

UTM GPS NORTHING: 4279603

UTM GPS EASTING: 481886 **GPS ELEVATION:** 1020

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.

RECEIVED
Office of Oil and Gas
MAR 26 2015
WV Department of Environmental Protection

Ben Smethyer — Geologist — 3/17/15

Signature — Title — Date