



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 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: M. J. SNODGRASS 23

Farm Name: SNODGRASS, M. J.

API Well Number: 47-8700443

Permit Type: Plugging

Date Issued: 04/30/2015

Promoting a healthy environment.

05/01/2015

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

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.

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 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:

- *1. Pump 50-75 sacks Class A Cement in shot hole. (Shot Hole from 2057'-2079')
- *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.

*Tag plug
to make
sure
hole is full*

- *1 CEMENT FROM TO TO 1910'. TAG PLUG, ADD CEMENT IF NEEDED
- *2 DOES NOT APPEAR TO BE ANY 4 1/2"
- *3 FREEPOINT 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'

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

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

Well No. 23 Acres 600 Farm Name M. J. Snedgrass

S. E. W.	Location Made	Oct. 26, 1943	Purchased From
Dist. 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
AS in. Rights Owned By	Dr'g Contractor	Laurence Dr'g. Co.	Date Abandoned

FORMATION				CASING RECORD					
Kind	Top	Bottom	Steel Line Meas.	Tests	Size	Bottom Casing Steel Line	Put in Well Tally Meas.	Pulled Tally Meas.	Cement
Conductor		14			10"	238'	238'	238'	Date
Blue Slate	100	240			8 1/2"	774'	780'	276'	Size Csg.
Sand	240	283			7"	1960'	1974'		Top Csg.
Little Dunkard	614	692							Bot. Csg.
Big Dunkard	715	880							
Sand	945	1220							
Sand	1400	1443							
Salt Sand	1518	1548							
Salt Sand	1565	1748							
Water	1680			Hole full.					
Brown Sand	1794	1834							
Little Lino	1890	1928							
Pencil Cave	1928	1934							
Big Lino	1934	2053							
Oil & Water	1996	2000		3 Blrs. water per day					
Oil Pocket	2017			Blew out					
Big Injun	2053	2080							
Oil & Gas	2057	2080							
T. D.		2081							

PACKERS AND SHOES			
Kind	Size	Depth Set	Date

TORPEDO RECORD					
Date	No. Qts.	Size Shell	Top Shot	Bottom	Remarks
Shot 3/1/44	40	3 1/2 x 22'	2057	2079	Bomb

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

Received
Office of Oil & Gas
MAR 16 2015

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

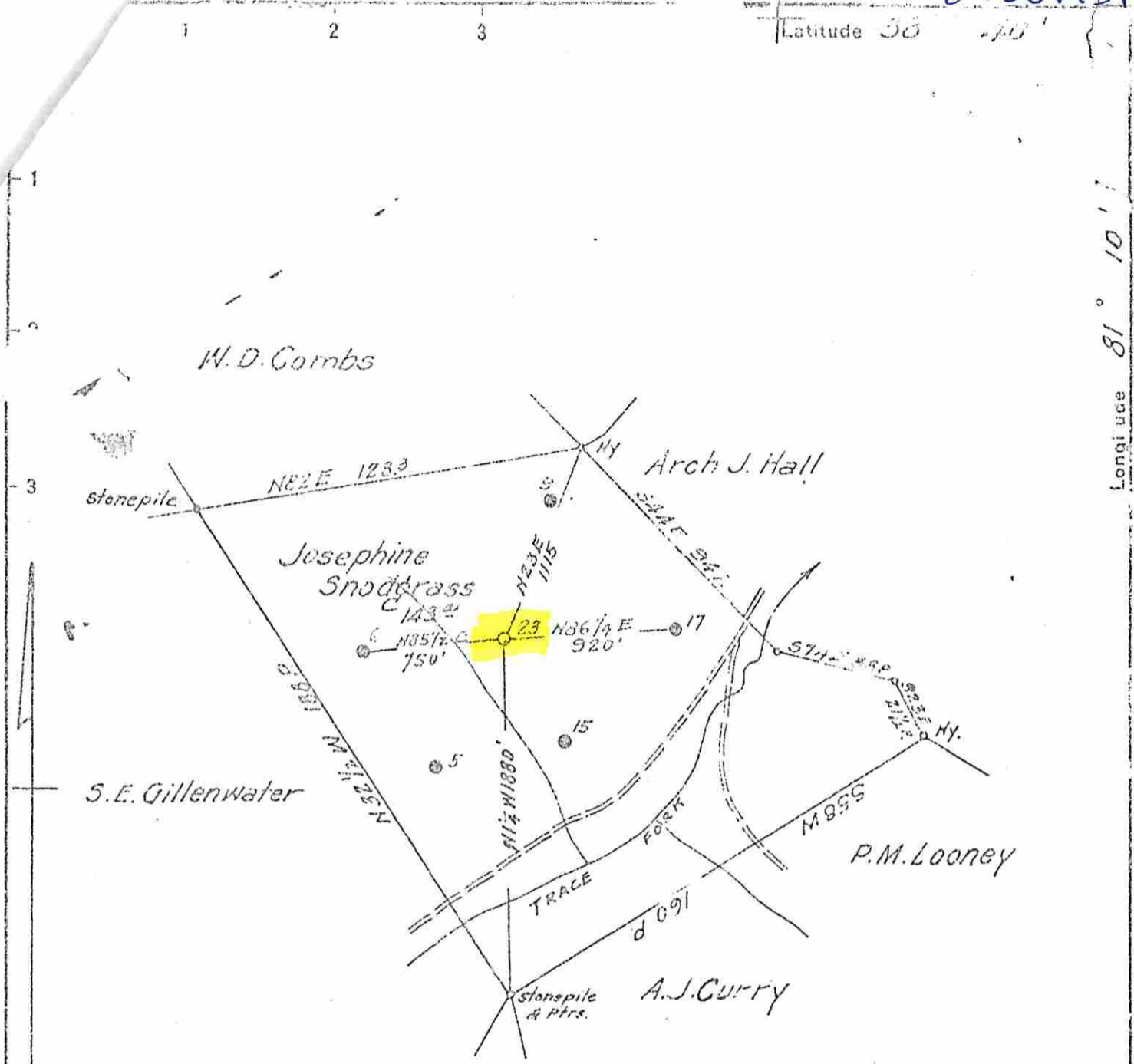
APPROVED

05/01/2015

8700443P

Latitude 38 10'

Longitude 81° 10' 11"



No Coal
 Surface: F.L. Boggs
 Tariff, W.Va.

A.C.H.
 11-23-43

- Fracture
- New Location
- Drill Deeper
- Abandonment

553W34 Map 62

Company	South Penn <i>W.Va.</i> Co.
Address	Parkersburg
Farm	M.J. Snodgrass
Tract	Acres 6.00
Well (Farm) No.	23
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. ROA-443

05/01/2015

- + 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 OF APPLICATION TO PLUG AND ABANDON A WELL

4) Surface Owner(s) to be served:	5) (a) Coal Operator
(a) Name <u>Lee Boggs</u>	Name <u>N/A</u>
Address <u>1562 Tariff Road</u>	Address _____
<u>Left Hand, WV 25251</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>	_____

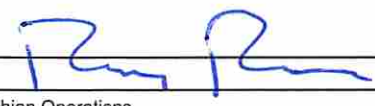
TO THE PERSONS NAMED ABOVE: You should have received this Form and the following documents:

- (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

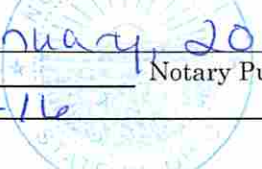
Marietta, Ohio 45750

Telephone (740) 374-2940

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

Elizabeth R. Teby Notary Public

My Commission Expires 2-29-16

 Received 2-29-16 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 deprivacyoffier@wv.gov.

05/01/2015

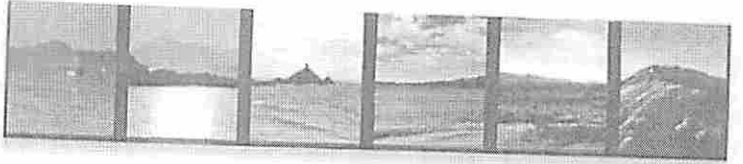
8700443P

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 For delivery information visit our website at www.usps.com

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

Sent to Lee Boggs
 Street, Apt. No.,
 or PO Box No. 1562 Tariff Rd
 City, State, ZIP+4® Leff Hand WV 25251
 PS Form 3800, August 2005 See Reverse for Instructions



Lee Boggs

— M.J. Snodgrass

#15, (#23), #103, #104

(4 wells)

915 Greenbag Road
 Morgantown, WV 26501
 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 304.243.0644

05/01/2015

WW-4B

API No.	<u>47-087-0443</u>
Farm Name	<u>M.J. Snodgrass</u>
Well No.	<u>23</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 _____

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. QJM*

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

Received
Office of Oil & Gas
MAR 16 2015

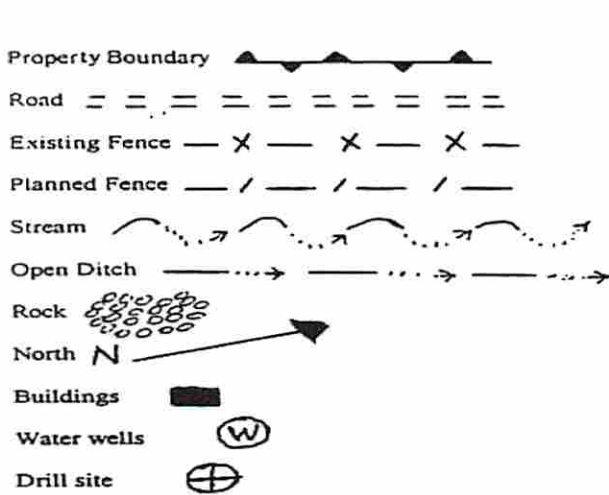
Subscribed and sworn before me this 22nd day of January, 2015

[Signature]

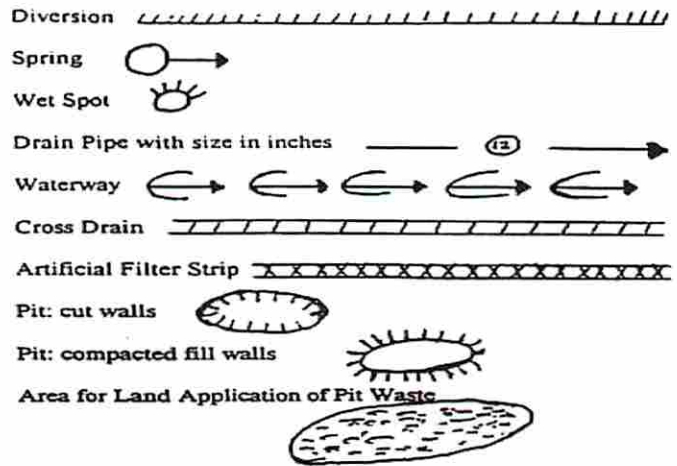


ELIZABETH R. TERAY
NOTARY PUBLIC
In and For The State of Ohio
My Commission Expires: 2-29-16

My commission expires 2-29-16



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		Seed Type	Area II	
		lbs/acre			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: _____

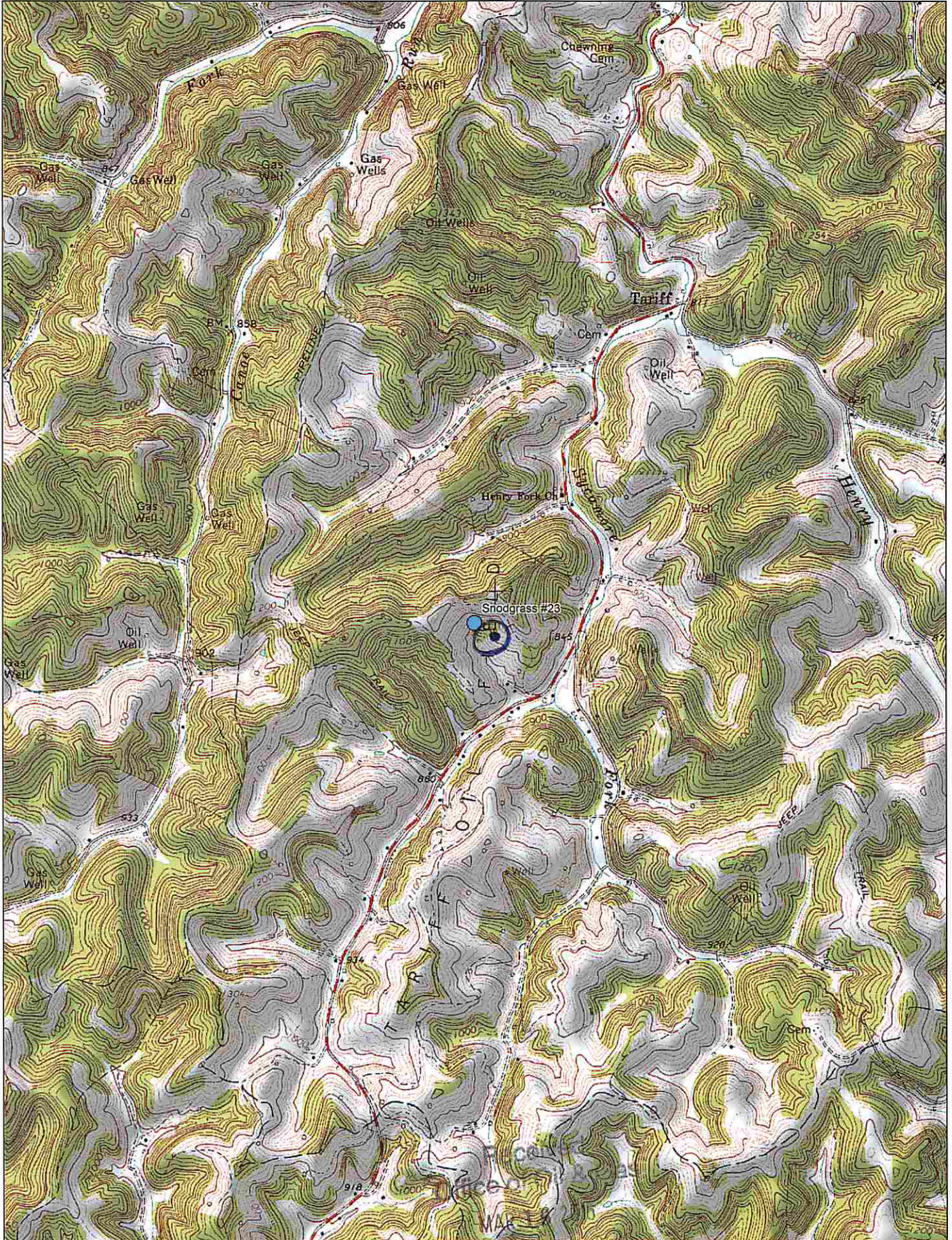
Title: Inspector

Date: 3/9/15

Field Reviewed? () Yes (X) No

Received
 Office of Oil & Gas

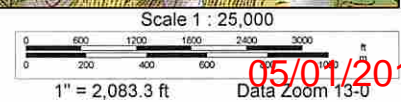
MAR 16 2015



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www.delorme.com



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 : 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 Smalley
Signature

Geologist
Title

3/17/15
Date

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