



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

May 18, 2015

WELL WORK PLUGGING PERMIT

Plugging

This permit, API Well Number: 47-8702780, 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 15

Farm Name: SNODGRASS, M. J.

API Well Number: 47-8702780

Permit Type: Plugging

Date Issued: 05/18/2015

Promoting a healthy environment.

05/22/2015

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.

WW-4B
Rev. 2/01

1) Date January 20, 2015
2) Operator's
Well No. M.J. Snodgrass # 15
3) API Well No. 47-087 - 2780

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 983' 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 _____

ORIG.
TO 2022

- 10) Work Order: The work order for the manner of plugging this well is as follows:
1. RIH w/ 2 3/8" WORK STRING TO 1866'. SPOT GEL TO 1800'.
 2. SET 200' BOTTOM HOLE CEMENT PLUG FROM 1943' - 1743'. (TAG PLUG ADD CEMENT IF NEEDED)
 3. SET 250' CEMENT PLUG FROM 1550' TO 1300'.
 4. 5 3/16" CASING WILL NOT BE ABLE TO BE PULLED OUT OF 6 7/8" CASING.
 5. SET 200' CEMENT PLUG FROM 1800' - 600'.
 6. SET 200' CEMENT PLUG FROM 200' TO SURFACE.

Note!

1. Gel spacers between all cement plugs
2. No coal seams reported

Tag bottom plug to make sure hole it stays in

JMM

INSTALL MONUMENT PER WV CODE.

Received
Office of Oil & Gas
MAR 16 2015

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

Work order approved by inspector  Date 3/9/15

Acres 600 Farm Name Snodgrass, M. J. Well No. 15

N. S. E. W.	Location Made	Purchased From
Civil District Smithfield	Rig Completed Sept. 10, 1913	Date Purchased
Co y Roane	Dr'g Commenced Sept. 15, 1913	Sold to
State W. Va.	Dr'g Completed Nov. 8, 1913	Date Sold
GAS OIL Rights Owned By	Dr'g Contractor	Dr'g. Tools Acc't. Date Abandoned

FORMATION				
Kind	Top	Bottom	Steel Line Meas.	Tests
Conductor		16		
Little Dunkard	655	685		
Big Dunkard	690	825		
Salt Sand	1490	1695		
Water	1560	1570		Hole full
Maxon Sand	1750	1788		
Little Lime	1818	1857		
Pencil Cave	1857	1861		
Big Lime	1861	1996	135	
Gas & Oil	1925			
Big Injun	1990	2018	28	
Oil & Gas	1996			
5 1/2" CASING 13#		1943	1943	RUN - 6/25/57
			1878	
			1994	

CASING RECORD				
Size	Bottom Casing Steel Line	Put in Well Tally Meas.	Pulled Tally Meas.	Cement
10"		140'	140'	Date
8 1/4"		705'	705'	Size Csg.
6 5/8"	1866'	1888'	6 1/2" at 1888'	Top Csg.
5 1/2"		589'	6 1/2" at 589'	Bot. Csg.
5 7/8"	1943'			6/25/57

PACKERS AND SHOES			
Kind	Size	Depth Set	Date
5 3/4" X 6 5/8"			
7 1/2" Pacman		1943'	6-25-

TORPEDO RECORD					
Date	No. Qts.	Size Shell	Top Shot	Bottom	R
Nov. 12, '13	20		1996		
March 23, '37	30	1 1/4" x 10'	1996	2006	
11-15-56	60	4 x 30	1992	2016	BOMB
6-3-43	Steam				

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

APPROVED

05/22/2015

T. D. 2022 --- S. J. M.

Well No. *15* *W. H. Rodgers* Farm.
 Lease No. *Smulfield* District *Rodree* County.
 Rig built by *S. P. Co*
 Well drilled by *S. P. Co* Contractor.
 Began drilling *Sept 15 1903* Completed *Nov 8 1903*

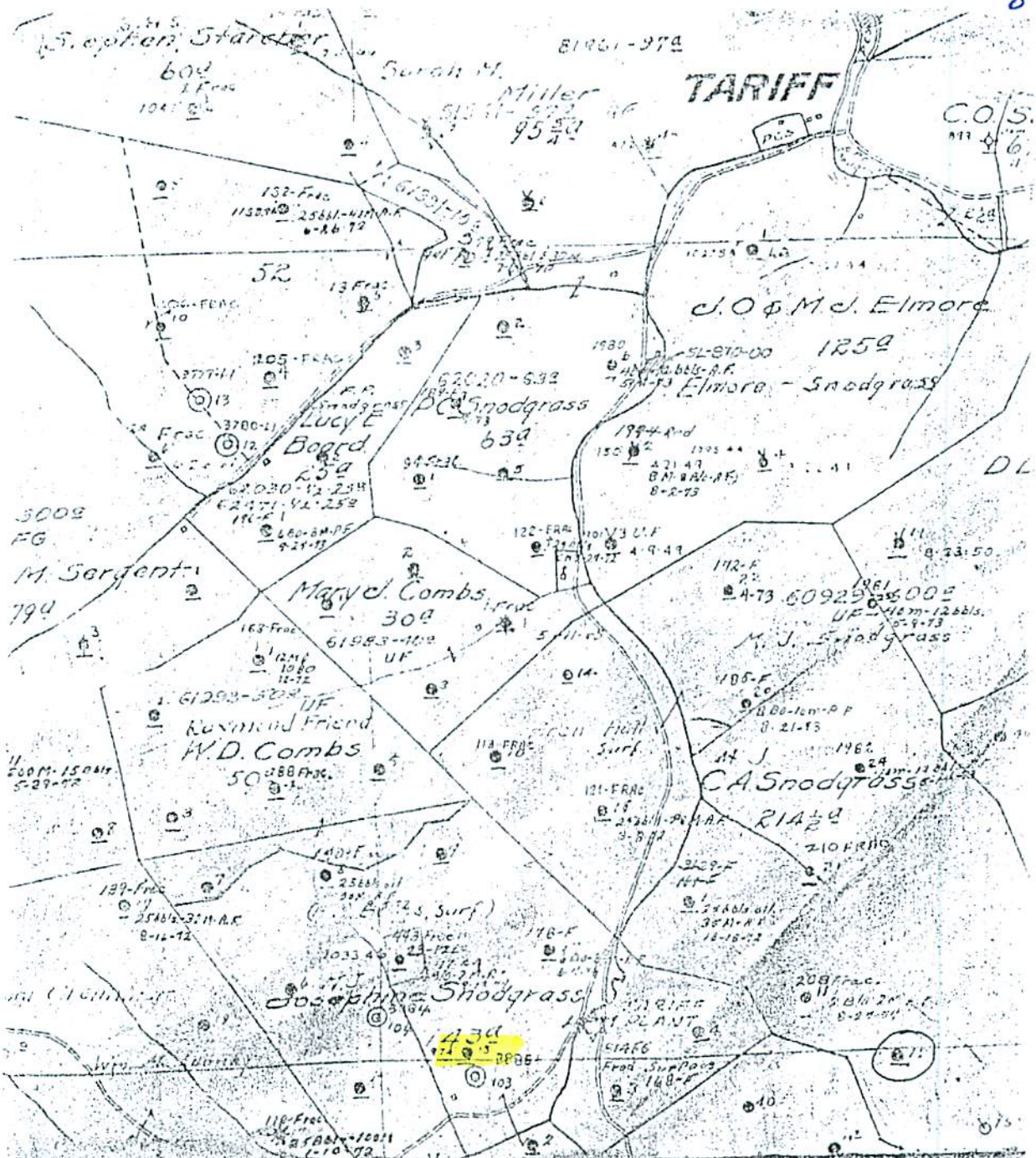
ROCK FORMATION	TOP	BOTTOM	REMARKS
<i>Conductor</i>		<i>16</i>	
<i>Little Bluehard</i>	<i>655</i>	<i>685</i>	
<i>Rig "</i>	<i>690</i>	<i>825</i>	
<i>Salt Sand</i>	<i>1490</i>	<i>1695</i>	
<i>1st Water</i>	<i>1560</i>		
<i>2nd " Hole full</i>	<i>1570</i>		
<i>Maxon Sand</i>	<i>1750</i>	<i>1786</i>	
<i>Little Lime</i>	<i>1818</i>	<i>1857</i>	
<i>Pencil Cave</i>	<i>1857</i>	<i>1861</i>	
<i>Rig Lime</i>	<i>1861</i>	<i>1996</i>	
<i>Oil Gas</i>	<i>1925</i>		
<i>Rig Limestone</i>	<i>1996</i>	<i>2018</i>	
<i>Oil Gas</i>	<i>1996</i>		
<i>Slate</i>	<i>2018</i>	<i>2022</i>	
<i>Total depth</i>		<i>2022</i>	

CASING RECORD

Size	CHARGED TO WELL		PUT IN WELL		PULLED OUT		LEFT IN WELL		Transferred before Completion		Left at Well Not in Use	
	Feet	In.	Feet	In.	Feet	In.	Feet	In.	Feet	In.	Feet	In.
<i>10</i>			<i>140</i>		<i>140</i>				<i>Shot 11/12/03</i>		<i>20 qt B. Prod</i>	
<i>8 1/4</i>			<i>705</i>		<i>705</i>				<i>Shot 3-25-07-30</i>		<i>to 1996-2006</i>	
<i>6 3/8</i>			<i>1888</i>									

Production }
 First 24 Hours } Dbls. Signed *W. H. Graham* Supt.

Received
 Office of Oil & Gas
 MAR 16 2015



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS
 FORM IV-C
 (6-78)

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION

WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL
 (IF "GAS", PRODUCTION STORAGE DEEP SHALLOW
 LOCATION: ELEVATION _____ WATER SHED _____ TRACT _____
 DISTRICT SMITHFIELD COUNTY Reese
 QUADRANGLE O. Her

SURFACE OWNER _____ ACRES _____
 OIL & GAS ROYALTY OWNER _____ ACRES _____
 LEASE NO. _____ LEASE ACRES _____

PROPOSED WORK: DRILL CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE PLUG OFF O.G. FORMATION PERFORATE NEW FORMATION OTHER PHYSICAL CHANGE IN WELL (SPECIFY) _____

PLUG AND ABANDON CLEAN OUT AND REFLUSH

TARGET FORMATION _____ ESTIMATED DEPTH _____
 WELL OPERATOR Council Company DESIGNATED AGENT James A. Crews
 ADDRESS P.O. Drawer 1588 ADDRESS P.O. Drawer 1588
Parkersburg, W.V. 26102 Parkersburg, W.V. 26102

DATE _____, 19____ ID _____
 OPERATOR'S WELL NO. 15
 API WELL NO. 47-087-2780
 STATE COUNTY PERMIT

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05/22/2015

DRILLING COMMENCED 9/15/13 COMPLETED 11/8/13 DEPTH 2022

SANDS	TOP	BOTTOM	ELEV. TOP	CASING
DRILLER FOR BIG LINE	1861	1996		10 140
Oil & Gas	1925			81 705
Injun	1996	2018		68 1888
Oil & Gas	1996			

PACKERS AND DEPTH SET

INITIAL PROD. No Record SAND _____ DEPTH _____

GAS TEST Not Given " " " "

SHOT 11/12/13 QUARTS 20 " Injun " 1996-2016

REMARKS _____

REPORTED BY POCA district ABANDONED _____

087-2780

8702780P

WW-4A
Revised 6-07

1) Date: 1/20/2015
2) Operator's Well Number
M.J. Snodgrass # 15
3) API Well No.: 47 - 087 - 2780

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 _____	_____

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 Received
 By: Rocky Roberts Office of Oil & Gas
 Its: Senior V.P. Appalachian Operations
 Address 125 Putnam Street MAR 16 2015
Marietta, Ohio 45750
 Telephone (740) 374-2940

Subscribed and sworn before me this 22nd day of January, 2015
Elizabeth R. Juby Notary Public
 My Commission Expires 2-29-16
 ELIZABETH R. TERAY
 NOTARY PUBLIC
 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.

05/22/2015

87027809



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



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

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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 2006 See Reverse for Instructions

05/22/2015

WW-4B

API No.	<u>47-087-2780</u>
Farm Name	<u>M.J. Snodgrass</u>
Well No.	<u>15</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 _____

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Office of Oil & Gas
MAR 16 2015**

05/22/2015

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 Trace Fork Quadrangle Tariff

Elevation 983' County Roane District Smithfield

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 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 *Rocky Roberts*

Company Official (Typed Name) Rocky Roberts

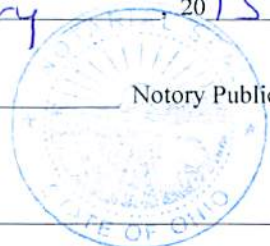
Company Official Title Senior V.P. Appalachian Operations

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Office of Oil & Gas

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

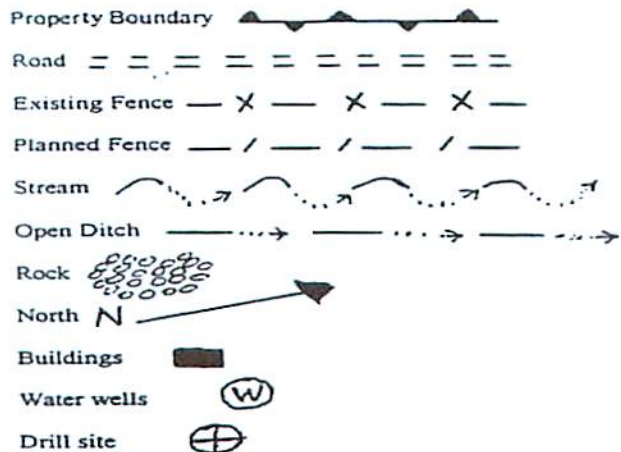
Elizabeth R. Tebay



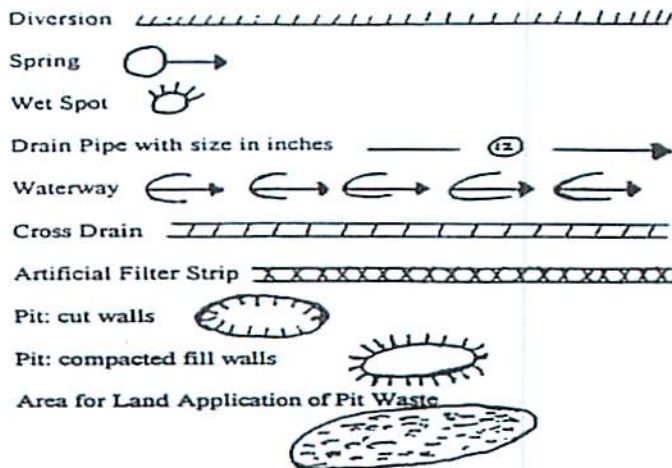
ELIZABETH R. TEBAY
NOTARY PUBLIC
In and For The State of Ohio
My Commission Expires
2-29-16

My commission expires 2-29-16

05/22/2015



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.

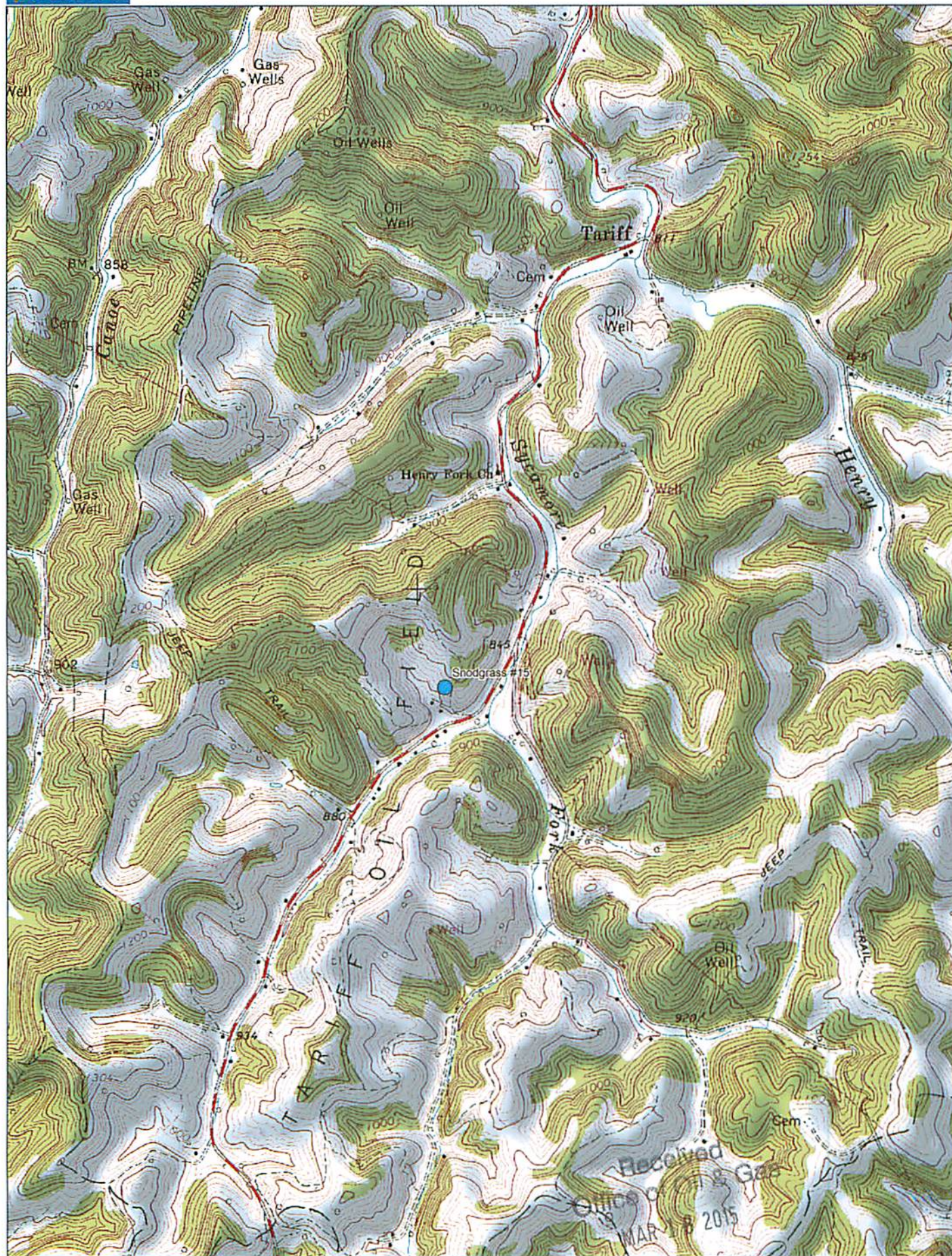
Photocopied section of involved 7.5' topographic sheet.

Plan Approved by: 

Comments: _____

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MAR 16 2015

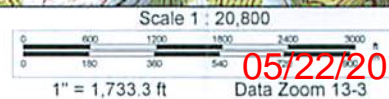
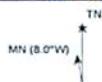
Title: Inspector Date: 3/9/15
 Field Reviewed? () Yes (X) No



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05/22/2015

Data Zoom 13-3

WW-7
8-30-06



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

API: 47-087-02780 WELL NO.: 15
 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: 4279431
 UTM GPS EASTING: 482004 GPS ELEVATION: 983

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 prescribed by the Office of Oil and Gas.

Ben Smith
Signature

Geologist
Title

RECEIVED
Office of Oil and Gas
Office of Oil and Gas
MAR 26 2015
3:17 PM
WV Department of
Environmental Protection
Date

05/22/2015

I
NOW

Operator: TRIAD HUNTER, LLC

API: 8702780

WELL No: M. J. SNODGRASS 15

Reviewed by: gwm Date: 4/29/15

15 Day End of Comment: 3/24/15

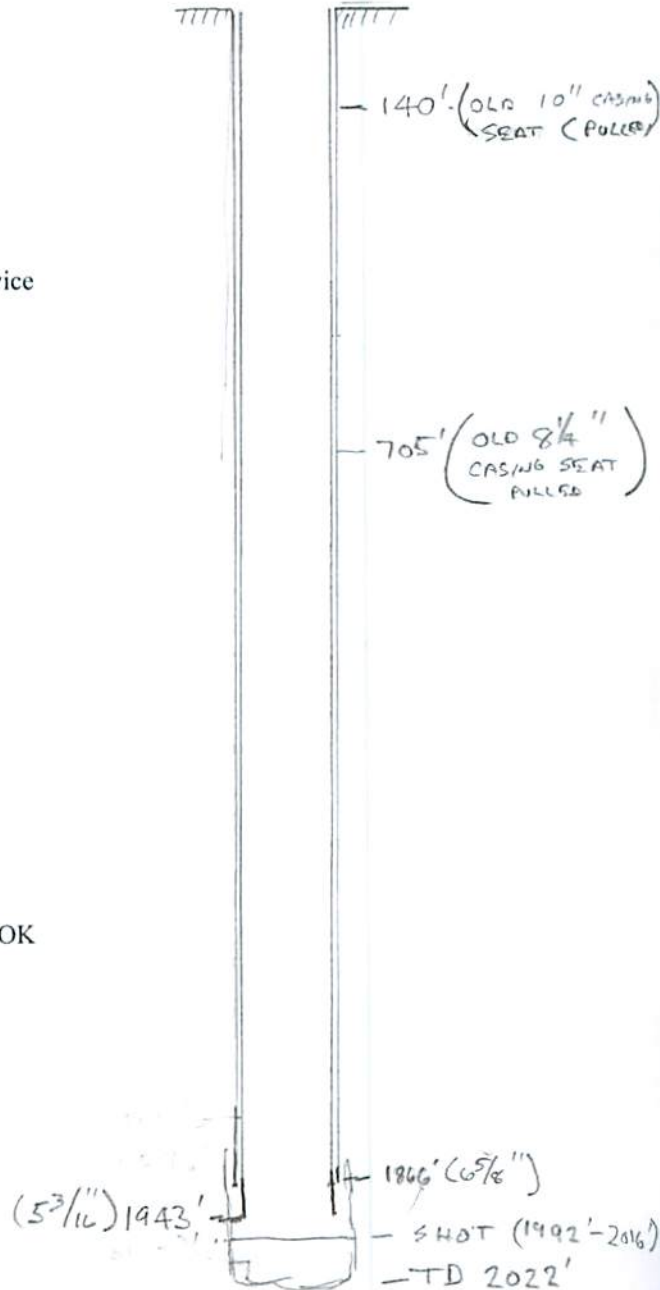
CHECKLIST FOR FILING A PERMIT

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)



WILL NOT BE ABLE TO PULL 5 3/16" OUT OF 6 5/8"

05/22/2015