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 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 15
Farm Name: SNODGRASS, M. J.
API Well Number: 47-8702780
Permit Type: Plugging
Date Issued: 05/18/2015

Promoting a healthy environment.

8702780 P

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.

8702780P

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
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:

ORIG. TD 2022'

1. RIH w/ 2 3/8" WORK STRING TO 1800'. 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 5/8" CASING.
5. SET 200' CEMENT PLUG FROM 800' - 600'.
6. SET 200' CEMENT PLUG FROM 200' TO SURFACE.

Tag bottom plug to make sure it stays in hole

Note!

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

J NM

INSTALL MONUMENT PER WV CODE.

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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

87027801

Serial No. 60929 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	
County	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	Drlg. 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			
5½" Casing 13#		1943	1943	Run - 6/25/57
			1878	
			1994	
T. D.		2022 -- S.L.M.		

CASING RECORD

Size	Bottom Casing Steel Line	Put in Well Tally Meas.	Pulled Tally Meas.	Ceme
10"		140'	140'	Date
8¼"		705'	705'	Size Csg.
6 5/8"	1866'	1888'	6¼" [illegible]	Top Csg.
5½"		589	Run 8-2	Bot. Csg.
Pulled	[illegible] 5½"	6½	[illegible]	[illegible]
5 5/16"	1943'	[illegible]		6/25/

PACKERS AND SHOES

Kind	Size	Depth Set	Date
5 3/16" X 6 5/8" X 16" Parmaco		1943'	6-25.

TORPEDO RECORD

Date	No. Qts.	Size Shell	Top Shot	Bottom	R
Nov. 12, '13	20		1996		
March 23, '37	30	4¼"x10'	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

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Well No. 15 M J Snodgrass Farm.
Lease No. Smithfield District Roane County.
Rig built by S. P. D. Co
Well drilled by S P D Co Contractor.
Began drilling Sept 15 1903 Completed Nov 8 1903

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

CASING RECORD

Size	CHARGED TO WELL Feet	In.	PUT IN WELL Feet	In.	PULLED OUT Feet	In.	LEFT IN WELL Feet	In.	Transferred before Completion Feet	In.	Left at Well Not in Use Feet	In.
10			140		140				Shot 11/12/13		20 qt B Inj	
8 1/4			705		705				Shot 3-23-37-30 qts		1996-2006	
6 5/8			1888									

Production First 24 Hours } ..... Bbls. Signed W. H. Graham Supt.

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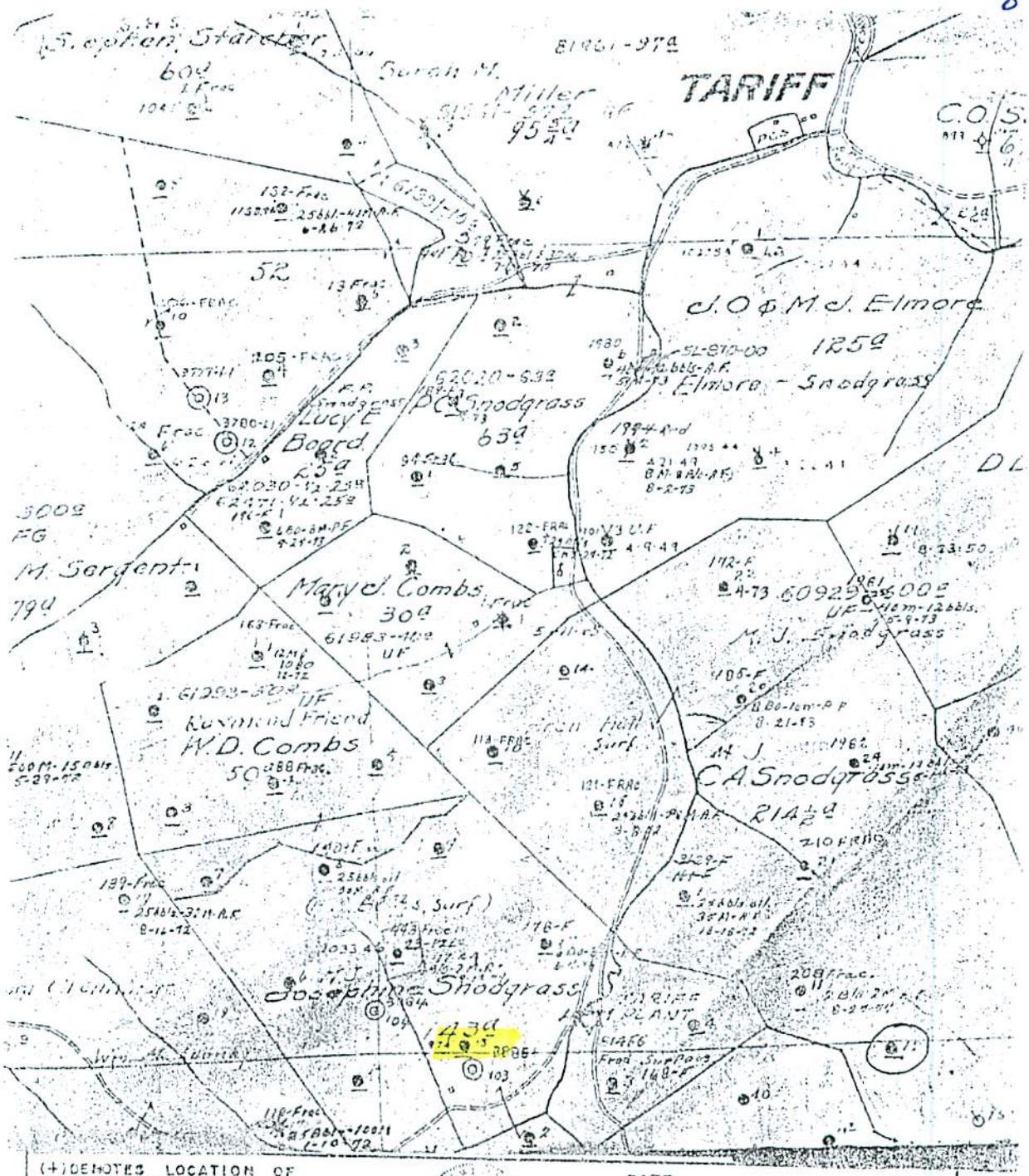

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS

FORM IV-6
(8-70)

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

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION

WELL TYPE: OIL X GAS ___ LIQUID INJECTION ___ WASTE DISPOSAL ___
(IF "GAS", PRODUCTION ___ STORAGE ___ DEEP ___ SHALLOW ___
LOCATION: ELEVATION _____ WATER SHED Trace Fork
DISTRICT Smithfield COUNTY Roane
QUADRANGLE Otter
SURFACE OWNER _____ ACREAGE _____
OIL & GAS ROYALTY OWNER _____ LEASE ACREAGE _____
LEASE NO. _____
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 _____ ESTIMATED DEPTH _____
WELL OPERATOR Pennzoil Company DESIGNATED AGENT James A. Crews
ADDRESS P.O. Drawer 1588 ADDRESS P.O. Drawer 1588
Parkersburg, WV 26102 Parkersburg, WV 26102

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

SANDS	TOP	BOTTOM	ELEV. TOP	CASING	
[illegible] Big Lime	1861	1996		10	140
Oil & Gas	1925			8¼	705
Injun	1996	2018		6⅝	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 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

6) Inspector: Ed Gainer
Address: P.O. Box 821
Spencer, WV 25276
Telephone

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

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

Received
Office of Oil & Gas
MAR 16 2015

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

ELIZABETH R. TERAY
NOTARY PUBLIC
In and 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.

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Total Postage & Fees	$

Postmark Here

MARIETTA OH 45750 MAR 11 2015 USPS

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

MPB
Expert Solutions.
www.morgantownprinting.com

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

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WW-4B

API No. 47-087-2780
Farm Name M.J. Snodgrass
Well No. 15

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 _____

Received
Office of Oil & Gas
MAR 16 2015

8702780P

WW-9
Rev. 5/08

API Number 47 - 087 - 2780
Operator's Well No. M.J. Snodgrass # 15

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 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. Tebay 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

8702780P

Form WW-9

Operator's Well No. M.J. Snodgrass # 15

LEGEND

Property Boundary
Road
Existing Fence
Planned Fence
Stream
Open Ditch
Rock
North N
Buildings
Water wells W
Drill site

Diversion
Spring
Wet Spot
Drain Pipe with size in inches 12
Waterway
Cross Drain
Artificial Filter Strip
Pit: cut walls
Pit: compacted fill walls
Area for Land Application of Pit Waste

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 Seed Type	lbs/acre	Area II 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:

Received
Office of Oil & Gas
MAR 16 2015

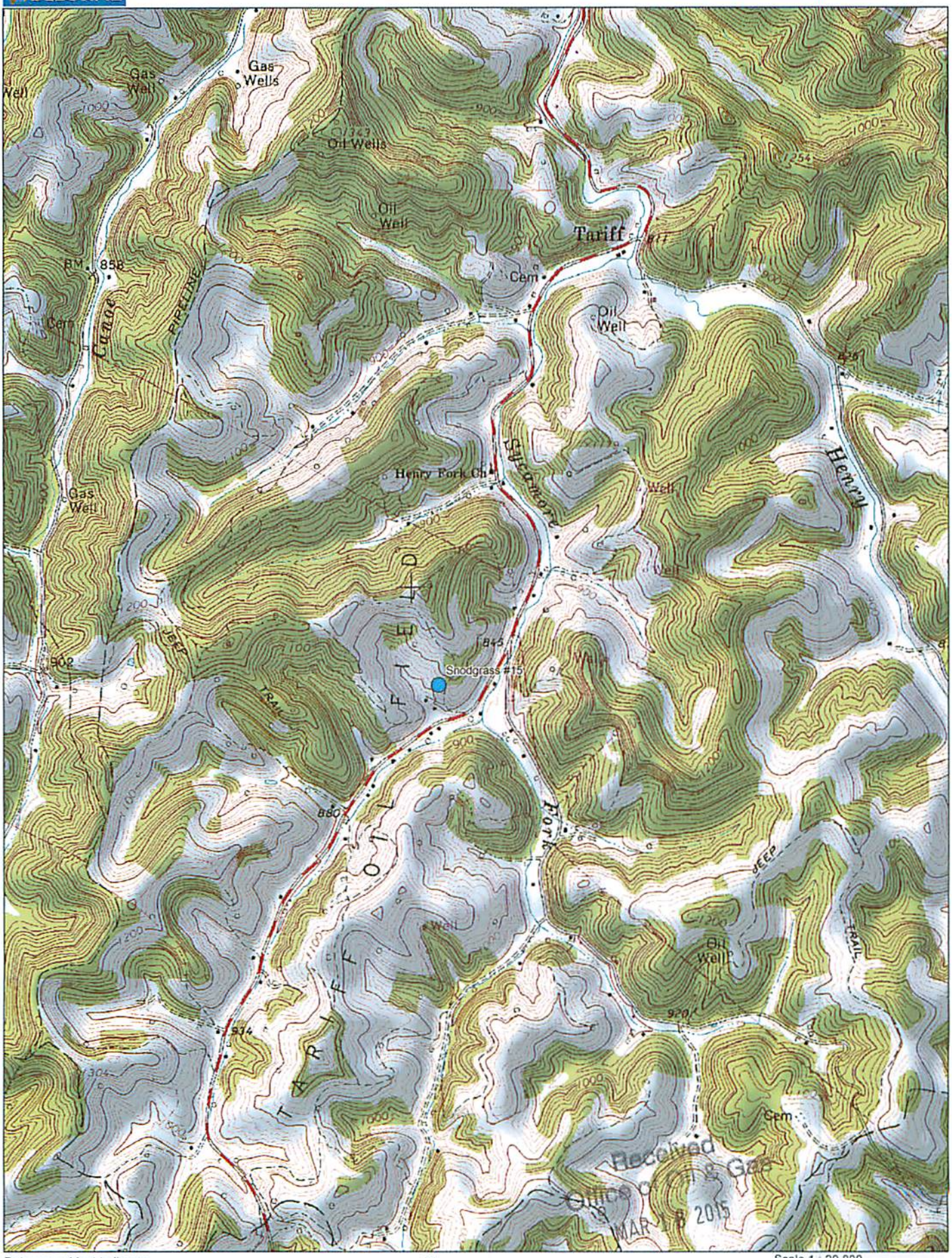
Title: Inspector Date: 3/9/15

Field Reviewed? (_____) Yes (X) No

8702780 P

DeLORME

XMap® 7



Received
Office of Oil & Gas
MAR 18 2015

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www.delorme.com

TN

MN (8.0°W)

Scale 1 : 20,800

1" = 1,733.3 ft

Data Zoom 13-3

8702780P

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 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 Smith Geologist 3/17/15

Signature Title Date

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

I
NOW

Operator: TRIAD HUNTER, LLC

API: 8702780

WELL No: M. J. SNODGRASS 15

Reviewed by: JWM Date: 4/29/15

15 Day End of Comment: 3/24/15

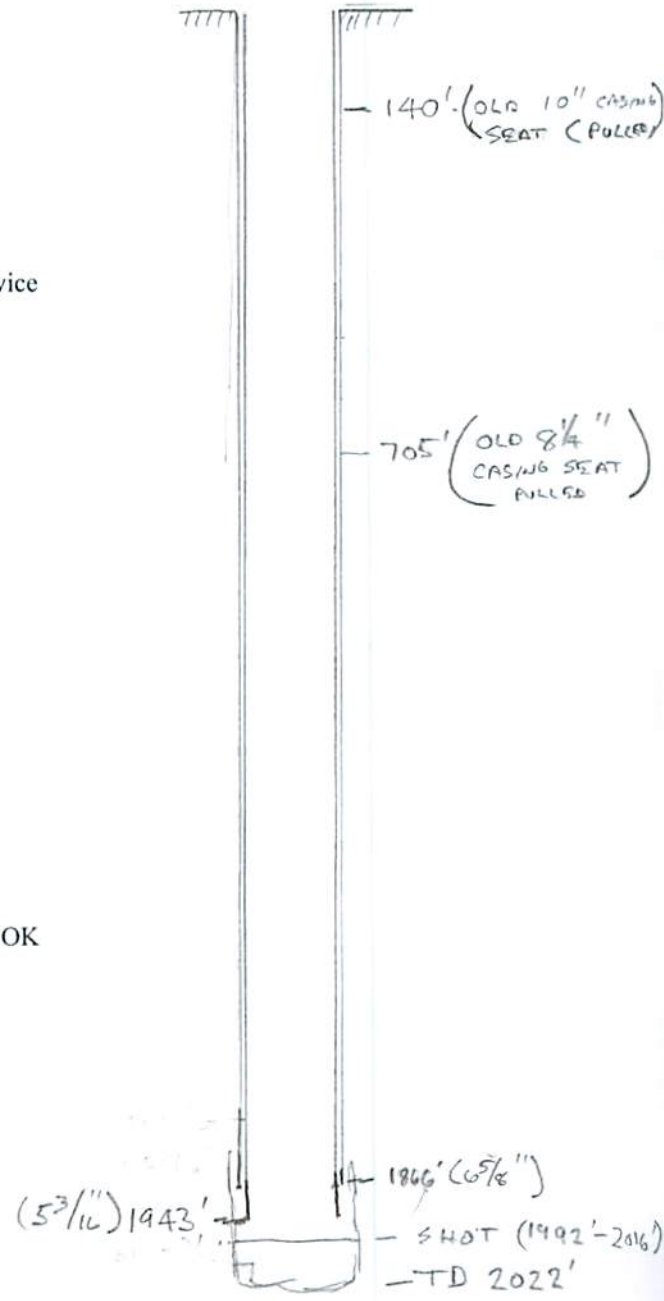
CHECKLIST FOR FILING A PERMIT

Plugging

- [x] WW-4B
- [x] Inspector signature on WW-4B
- [x] Completion / Well Records of Previous Work
- [x] WW-4A (Notarized)
- [x] Certified Mail Receipts, Waivers, or Affidavits of Personal Service
- [ ] Surface Owner Waiver
- [ ] Coal Owner / Lessee /Operator Waiver
- [x] WW-9 (Page 1) (Notarized)
- [x] Inspector Signature on WW-9 (Optional)
- [x] Topographic Map of location of well
- [x] WW-7

OR

- [ ] Mylar Plat (Surface owner on plat matches WW-4A)
- [x] Bond
- [x] Company is Registered with the SOS
- [x] Worker's Compensation / Unemployment Insurance account is OK
- [x] $100.00 check ($0.00 if no pit)



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