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 11, 2015

WELL WORK PLUGGING PERMIT

Plugging

This permit, API Well Number: 47-8703884, 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 104
Farm Name: SNODGRASS, M. J.
API Well Number: 47-8703884
Permit Type: Plugging
Date Issued: 06/11/2015

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.

4708703884

WW-4A
Revised 6-07

1) Date: 1/20/2015
2) Operator's Well Number
M.J. Snodgrass # 104

3) API Well No.: 47 - 087 - 3884 P

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. Tebay Notary Public

My Commission Expires 2-29-16

ELIZABETH R. TEBAY
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.

Received
Office of Oil & Gas
MAR 16 2015

4708703884

87-3884P

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

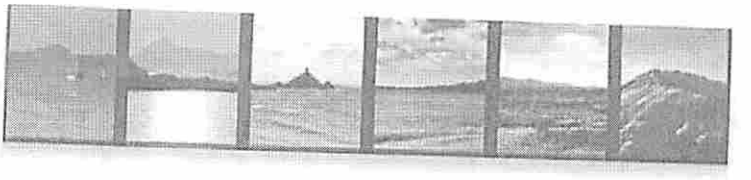
Postage	$
Certified Fee	
Return Receipt Fee (Endorsement Required)	
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	$

Postmark Here

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

7014 0150 0000 9042 1323



Lee Boggs

M.J. Snodgrass

#15, #23, #103, #104

(4 wells)

915 Greenbag Road
Morgantown, WV 26509
Toll Free 888.292.0001
Fax 304.292.0783

MPB
Expert Solutions.
www.morgantownprinting.com

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

47 087 03884

WW-4B
Rev. 2/01

1) Date January 20, 2015
2) Operator's
Well No. M.J. Snodgrass # 104
3) API Well No. 47- 087 - 3884 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 900' 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:

150' - 200' Bottom hole plug in casing Across perfs
100' - Cut plug (4.5" csg.) Bond Log Cement Top at 746'.
100' - Elevation plug @ 900'
100' - Surface casing plug @ 275'.
100' - 150' Surface Plug in 7" 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 _____ Date 3/9/15

4708703884

IV-35
(Rev 8-81)

Date November 14, 1984
Operator's
Well No. 104
Farm M. J. Snodgrass
API No. 47 - 087 - 3884-Li

State of West Virginia
Department of Mines
Oil and Gas Division

WELL OPERATOR'S REPORT
OF
DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

WELL TYPE: Oil ___ / Gas ___ / Liquid Injection X / Waste Disposal ___ /
(If "Gas," Production ___ / Underground Storage ___ / Deep ___ / Shallow ___ /)

LOCATION: Elevation: 900.3 Watershed Trace Fork
District: Smithfield County Roane Quadrangle Tariff 7.5'

COMPANY Pennzoil Company
ADDRESS P.O. Box 1588, Parkersburg, W.Va. 26102
DESIGNATED AGENT James A. Crews
ADDRESS P.O. Box 1588, Parkersburg, W.Va.
SURFACE OWNER Lee Boggs
ADDRESS Left Hand, West Virginia 25251
MINERAL RIGHTS OWNER W. Gary Ayers
ADDRESS
OIL AND GAS INSPECTOR FOR THIS WORK Homer Dougherty ADDRESS Linden Rt., Box 3A Looneyville,WV
PERMIT ISSUED 5-30-84
DRILLING COMMENCED 6-27-84
DRILLING COMPLETED 7-1-84
IF APPLICABLE: PLUGGING OF DRY HOLE ON CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED ON

Casing & Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft.
Size 20-16 Cond.			
13-10"			
9 5/8			
8 5/8			
7	271	271	85 sks.
5 1/2			
4 1/2	1988	1988	160 sks.
3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION Big Injun Depth 1980 feet
Depth of completed well 2000 feet Rotary X / Cable Tools ___
Water strata depth: Fresh 122-170 RKB feet; Salt 1550-1624 RKB feet (Estimate)
Coal seam depths: ___ Is coal being mined in the area? No

OPEN FLOW DATA
Producing formation Water Injection Well Pay zone depth ___ feet
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 measurement) after ___ hours shut in
(If applicable due to multiple completion--)
Second producing formation ___ Pay zone depth ___ feet
Gas: Initial open flow ___ Mcf/d Oil: Initial open flow ___ Bbl/d
Final open flow ___ Mcf/d Oil: Final open flow ___ Bbl/d
Time of open flow between initial and final tests ___ hours
Static rock pressure ___ psig (surface measurement) after ___ hours shut in

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MAR 16 2015

(Continue on reverse side)

FORM IV-35
(REVERSE)

47087038 84

DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC.

Not Treated

WELL LOG

FORMATION COLOR HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all fresh and salt water, coal, oil and gas
Silt & Sand	0	86	
Shale	86	133	
Silt	133	170	
Shale,Silt,Sand	170	1738	
Little Lime	1738	1784	
Blue Monday	1784	1802	
Pencil Cave	1802	1818	
Big Lime	1818	1928	
Big Injun	1928	1956	
Pocono Shale	1956	2000	
Total Depth		2000	

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MAR 16 2015

(Attach separate sheets as necessary)

Pennzoil Company
Well Operator

By: Cynthia A Lucas

Date: November 14, 1984

Note: Regulation 2.02(i) provides as follows:
"The term 'log' or 'well log' shall mean a systematic detailed geological record of all formations, including coal, encountered in the drilling of a well."

4708703884

WW-9
Rev. 5/08

Page 1 of 2
API Number 47 - 087 - 3884 P
Operator's Well No. M.J. Snodgrass # 104

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 900' 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".

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 _____

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 Tebay Notory Public

My commission expires 2-29-16

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

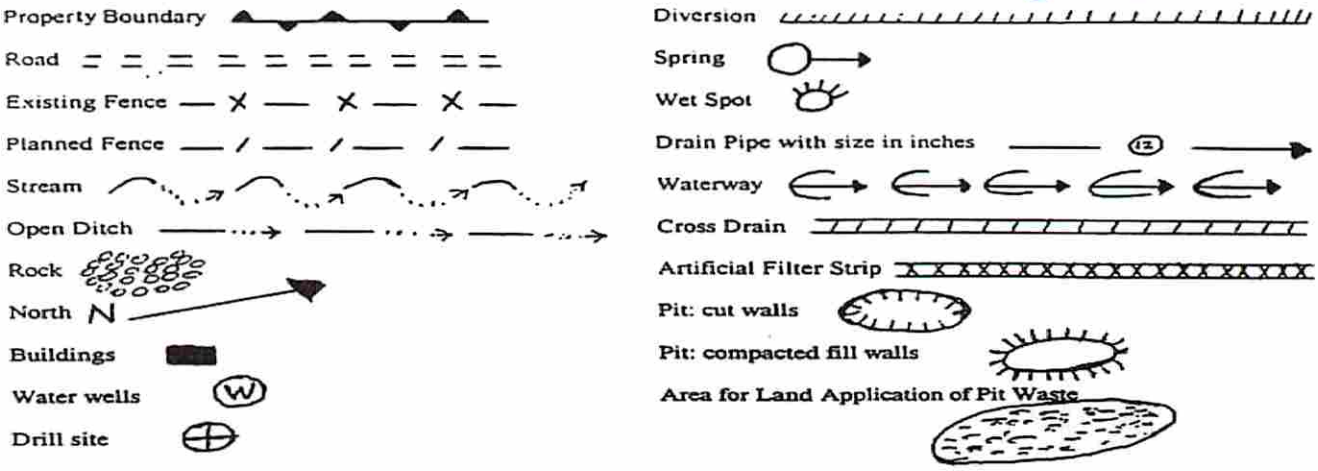
4708703884

Form WW-9

Operator's Well No. M.J. Snodgrass # 104

87-3884P

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:

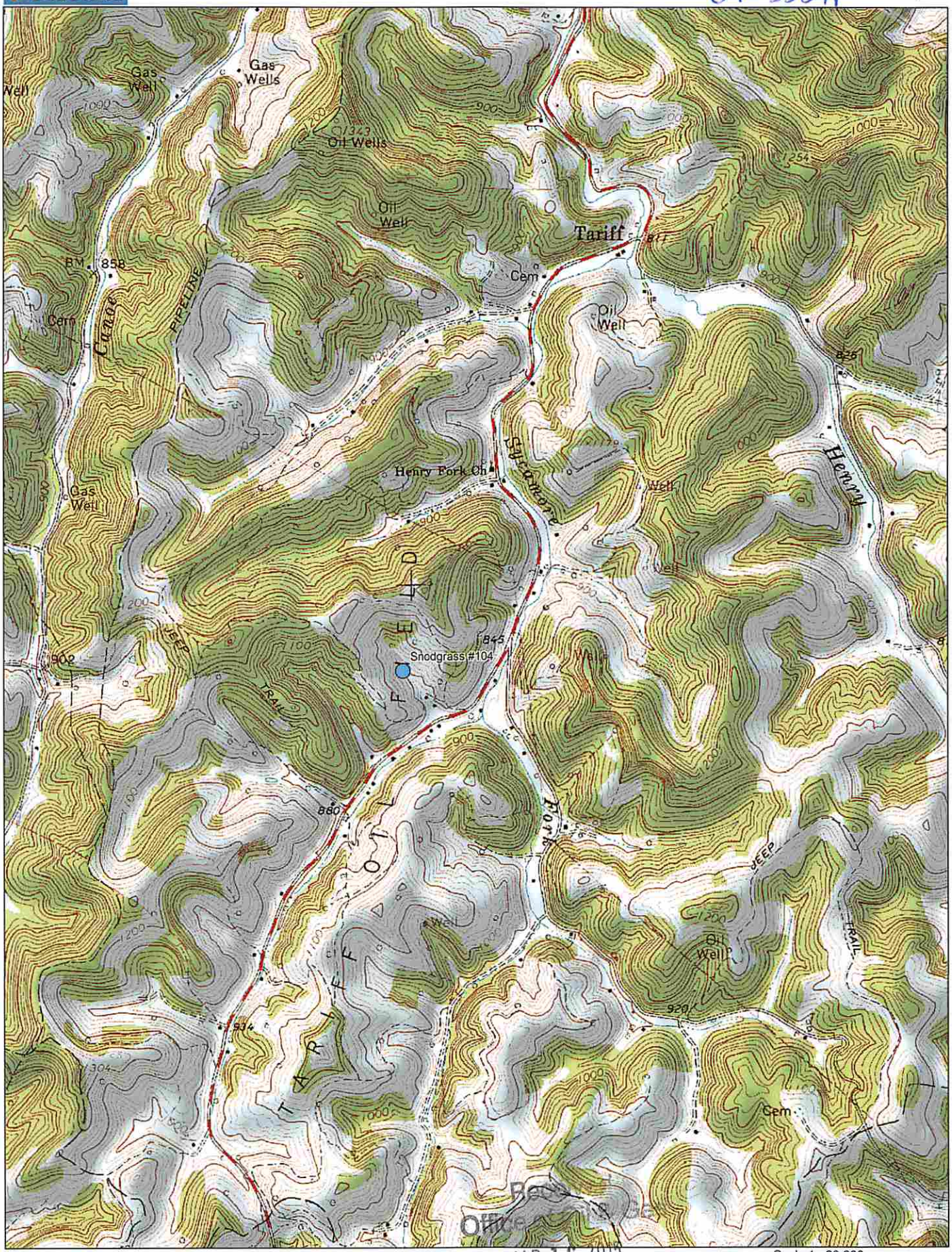
Received
Office of Oil & Gas
MAR 16 2015

Title: Inspector Date: 3/9/15

Field Reviewed? ( ) Yes (X) No

4708703884 87-3884P

DeLORME XMap® 7



Data use subject to license.

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www.delorme.com

TN

MN (8.0°W)

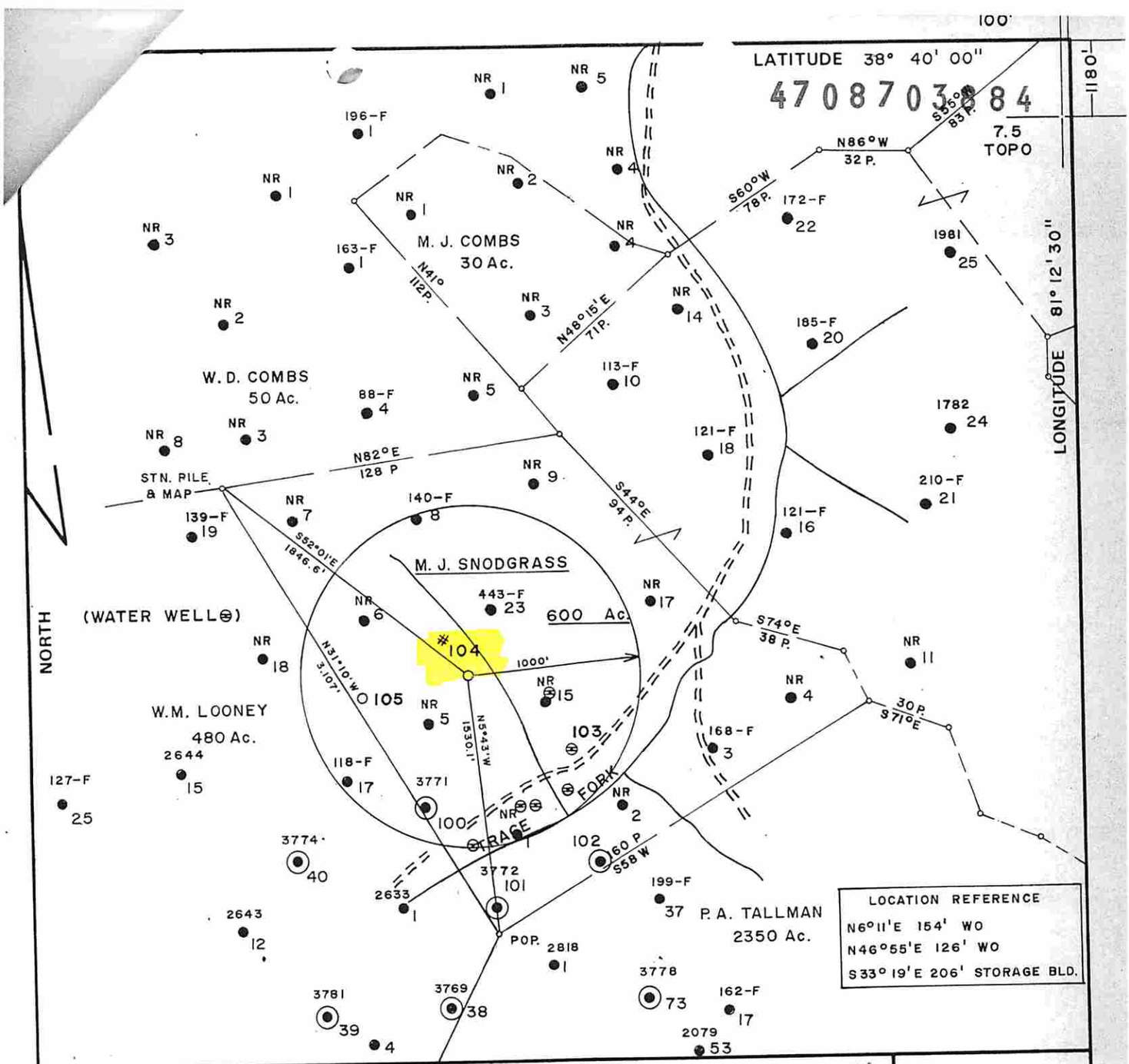
Scale 1 : 20,800

1" = 1,733.3 ft

Data Zoom 13-3

Office

MAR 16 2015



FILE NO. 690
MAP 62/72 SQS S53/54 W34
SCALE 1" = 800
MINIMUM DEGREE OF ACCURACY 1 in 200
PROVEN SOURCE OF ELEVATION WM. LOONEY #30 1076.63'

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 MINES.

(SIGNED) Curtis A. Lucas
CURTIS A. LUCAS LLS 275

PLACE SEAL HERE

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

FORM IV-6
(8-78)

DATE APRIL 26, 19 84
FARM M. J. SNODGRASS NO. 104
API WELL NO.
47 - 087 - _____
STATE COUNTY PERMIT

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION

Received
Office of Oil & Gas
MAR 16 2015

WELL TYPE: OIL ___ GAS ___ LIQUID INJECTION X WASTE DISPOSAL ___
(IF "GAS,") PRODUCTION ___ STORAGE ___ DEEP ___ SHALLOW ___
LOCATION: ELEVATION 900.3' WATER SHED TRACE FORK
DISTRICT SMITHFIELD COUNTY ROANE
QUADRANGLE TARIFF 7 1/2
SURFACE OWNER LEE BOGGS ACREAGE 59 Ac.
OIL & GAS ROYALTY OWNER W. GARY AYERS LEASE ACREAGE 600 Ac.
LEASE NO. 60929-50
PROPOSED WORK: DRILL X 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 INJUN ESTIMATED DEPTH 1980'
WELL OPERATOR PENNZOIL COMPANY DESIGNATED AGENT JAMES A. CREWS
ADDRESS P. O. BOX 1588 ADDRESS P. O. BOX 1588
PARKERSBURG, W. V. 26101 PARKERSBURG, W. V. 26101

4708703884

WW-7
8-30-06

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

API: 47-087-03884 P **WELL NO.:** 104

FARM NAME: M.J. Snodgrass

RESPONSIBLE PARTY NAME: Triad Hunter, LLC

COUNTY: Roane **DISTRICT:** Smithfield

QUADRANGLE: Tariff

SURFACE OWNER: Lee Boggs

ROYALTY OWNER: TH W Anna Lee Collins

UTM GPS NORTHING: 4279476

UTM GPS EASTING: 481857 **GPS ELEVATION:** 888

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.

Signature | Geologist (Title) | 3/17/15 (Date)

Operator: TRIAD HUNTER, LLC

API: 8703884

WELL No: M. J. SNODGRASS 104

Reviewed by: GCS Date: 6/10/15

15 Day End of Comment: 03/24/15

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
- [ ] $100.00 check ($0.00 if no pit)