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 07, 2015

WELL WORK PLUGGING PERMIT

Plugging

This permit, API Well Number: 47-8703609, 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: P.A.TALLMAN 66
Farm Name: ENERGY ACQUISITION CORP.
API Well Number: 47-8703609
Permit Type: Plugging
Date Issued: 05/07/2015

Promoting a healthy environment.

8703609

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.

8703609P

WW-4B
Rev. 2/01

1) Date January 20, 2015
2) Operator's
Well No. P.A. Tallman # 66
3) API Well No. 47- 087 - 3609

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 1238' 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:

SET · 200' Bottom hole plug in 4 1/2" casing. ACROSS PERFS

100' - Cut plug (4.5" csg.) Estimated cement top @ 1434'.

100' - Elevation plug @ 1250'.

100' - Surface casing plug @ 551' TO 451'.

150' - Surface plug in 8 5/8" casing. FROM 150' TO SURFACE.

Note! 1. All cement plugs - Class A cement.

2. Gel spacers between all cement plugs.

3. No coal seams reported.

GWM

INSTALL MONUMENT PER WV STATE CODE

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

RECEIVED
Office of Oil and Gas
MAR 16 2015
WV Department of
Environmental Protection

Work order approved by inspector _____ Date 3/16/15

8703609P

OG-10
Rev. - 9-71

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

Oil and Gas Division

WELL RECORD

Rotary X Oil X
Cable ____ Gas ____
Recycling ____ Comb. ____
Water Flood X Storage ____
Disposal ____ ____ (Kind)

Quadrangle Tariff 7.5'

Permit No. 087-3609-Li

Company Pennzoil Company
Address P. O. Box 1588, Parkersburg, WV 26101
Farm P. A. Tallman Acres 2350
Location (waters) Trace Fork
Well No. 66 Elev. 1238.27
District Snithfield County Roane
The surface of tract is owned in fee by
Doyle D. Jones
Address Lefthand, WV 25251
Mineral rights are owned by Anna Lee Collins
Address 1009 Main St., Pt. Pleasant, WV
Drilling Commenced 8-19-82
Drilling Completed 8-30-82
Initial open flow WIW cu. ft. ____ bbls.
Final production ____ cu. ft. per day ____ bbls.
Well open ____ hrs. before test ____ RP.

Casing and Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft. (Sks.)
Size 20-16 Cond.			
13-10"			
9 5/8			
8 5/8	501	501	290 sks.
7			
5 1/2			
4 1/2	2303	2303	175 sks.
3			
2			
Liners Used			

Attach copy of cementing record.

Well treatment details:
Water Injection Well
Fractured: 11-11-82 w/250 gls. 15% HCL, 145 BW, 1500# 20/40 sd
Perf: 2248-66-18H

Coal was encountered at ____ Feet ____ Inches
Fresh water ____ Feet ____ Salt Water ____ Feet ____
Producing Sand Big Injun Depth ____

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
Sand			0	508		
Silt & Shale			508	596		
Silt & Sand			596	662		
Silt & Shale			662	764		
Sand & Shale			764	1950		
Salt Sand			1950	2079		
Little Lime			2079	2112		
Blue Monday			2112	2115		
Pencil Cave			2115	2136		
Big Lime			2136	2240		
Big Injun			2240	2274		
Pocono Shale			2274	2310		
Total Depth				2310		

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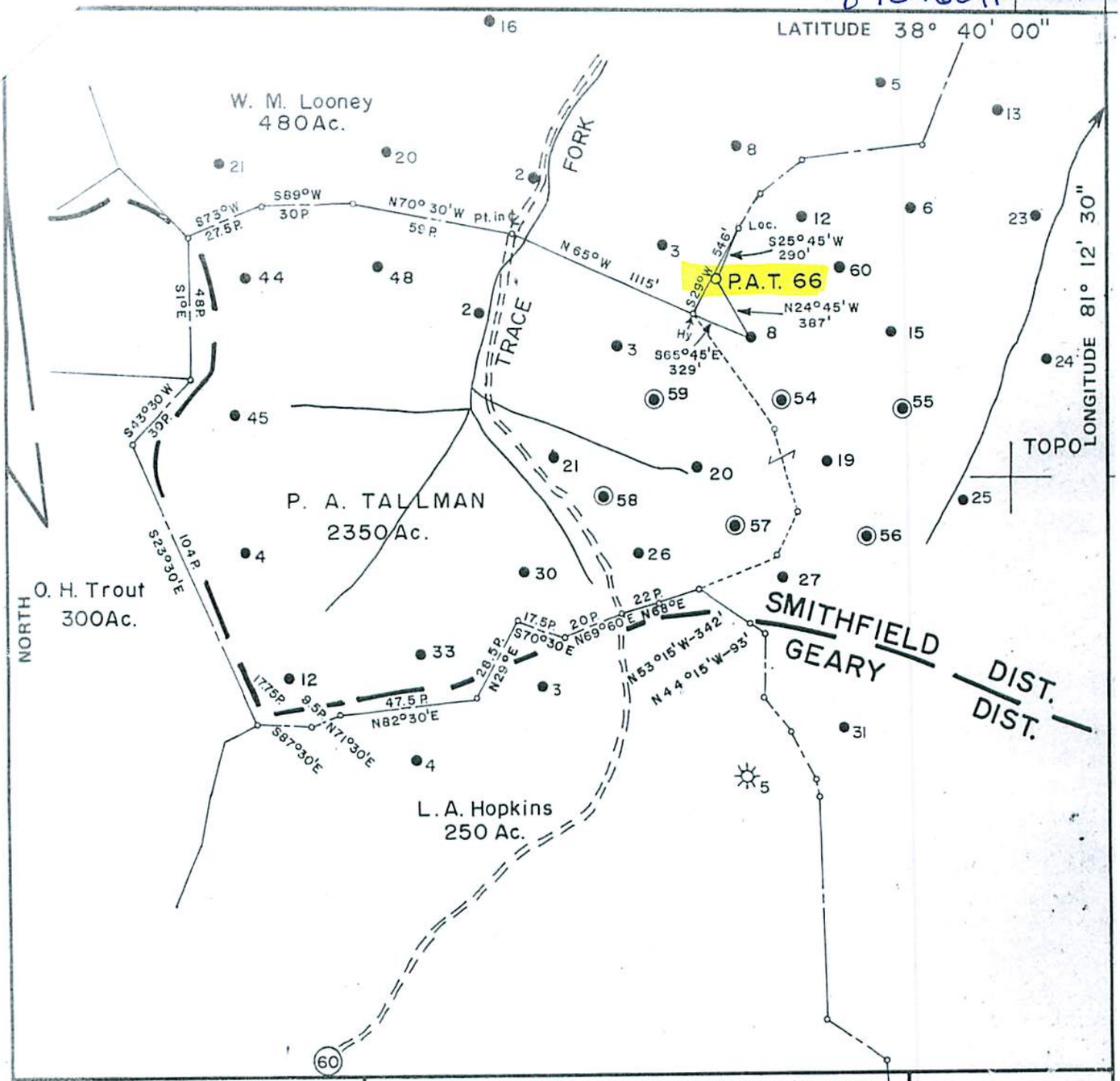
Office of Oil and Gas
MAR 16 2015
WV Department of
Environmental Protection

8703609P 1400



FILE NO. 1344
MAP 72 SQS S-55 W-35
SCALE 1" = 800'
MINIMUM DEGREE OF ACCURACY 1 in 200
PROVEN SOURCE OF ELEVATION P.A. TALLMAN " 58 Elev. = 1054.40'

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, 1982
FARM P.A. TALLMAN NO. 66
API WELL NO.
47 STATE COUNTY PERMIT

RECEIVED
Office of Oil and Gas
MAR 16 2015
WV Department of Environmental Protection

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION

WELL TYPE: OIL ___ GAS ___ LIQUID INJECTION X WASTE DISPOSAL ___
(IF "GAS,") PRODUCTION ___ STORAGE ___ DEEP ___ SHALLOW ___

LOCATION: ELEVATION 1238.27 WATER SHED TRACE FORK
DISTRICT SMITHFIELD COUNTY ROANE
QUADRANGLE TARIFF 7 1/2'

SURFACE OWNER Doyle D. Jones ACREAGE 120.5
OIL & GAS ROYALTY OWNER ANNA LEE COLLINS LEASE ACREAGE 2350
LEASE NO. 81216-50

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 2312'
WELL OPERATOR PENNZOIL COMPANY DESIGNATED AGENT JAMES A. CREWS
ADDRESS P. O. BOX 1588 PARKERSBURG, W. V. 26101 ADDRESS P. O. BOX 1588 PARKERSBURG, W. V. 26101

8703609P

WW-4A
Revised 6-07

1) Date: 1/20/2015
2) Operator's Well Number
P.A. Tallman # 66

3) API Well No.: 47 - 087 - 3609

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: Triad Hunter, LLC
Address: 125 Putnam Street
Marietta, Ohio 45750

(b) Name:
Address:

(c) Name:
Address:

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

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

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

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Office of Oil and Gas
MAR 16 2015
WV Department of
Environmental Protection

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.

8703609P

WW-9
Rev. 5/08

Page 1 of 2
API Number 47 - 087 - 3609
Operator's Well No. P.A. Tallman # 66

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 1238' 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

Subscribed and sworn before me this 22nd day of January, 20 15

Elizabeth R Tebay Notory Public

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

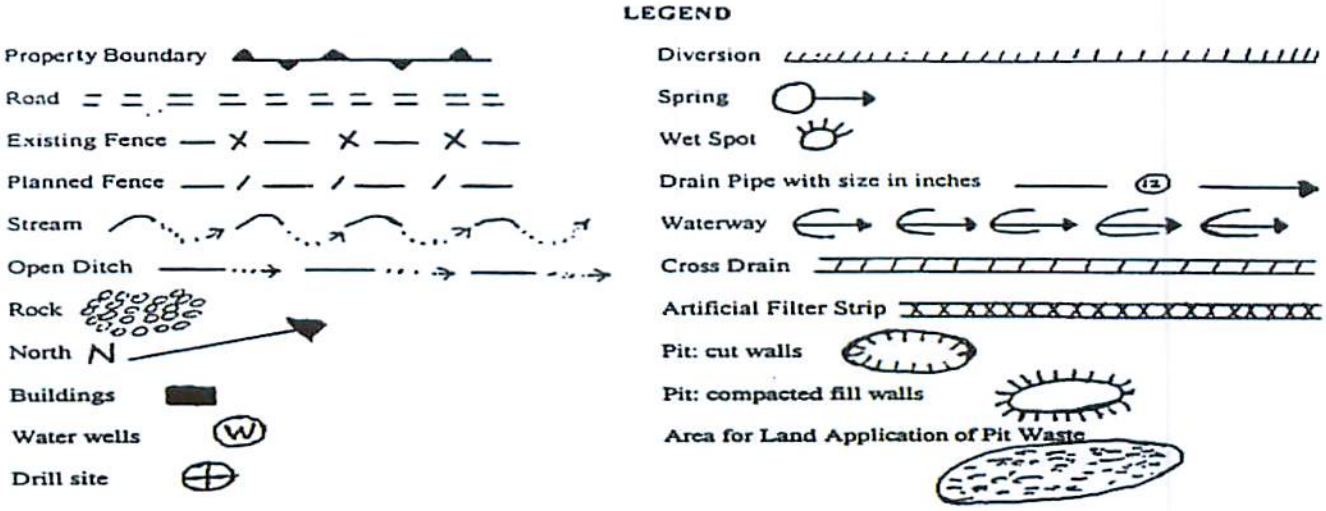
My commission expires 2-29-16

8703609P

Form WW-9

Operator's Well No. P.A. Tallman # 66

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

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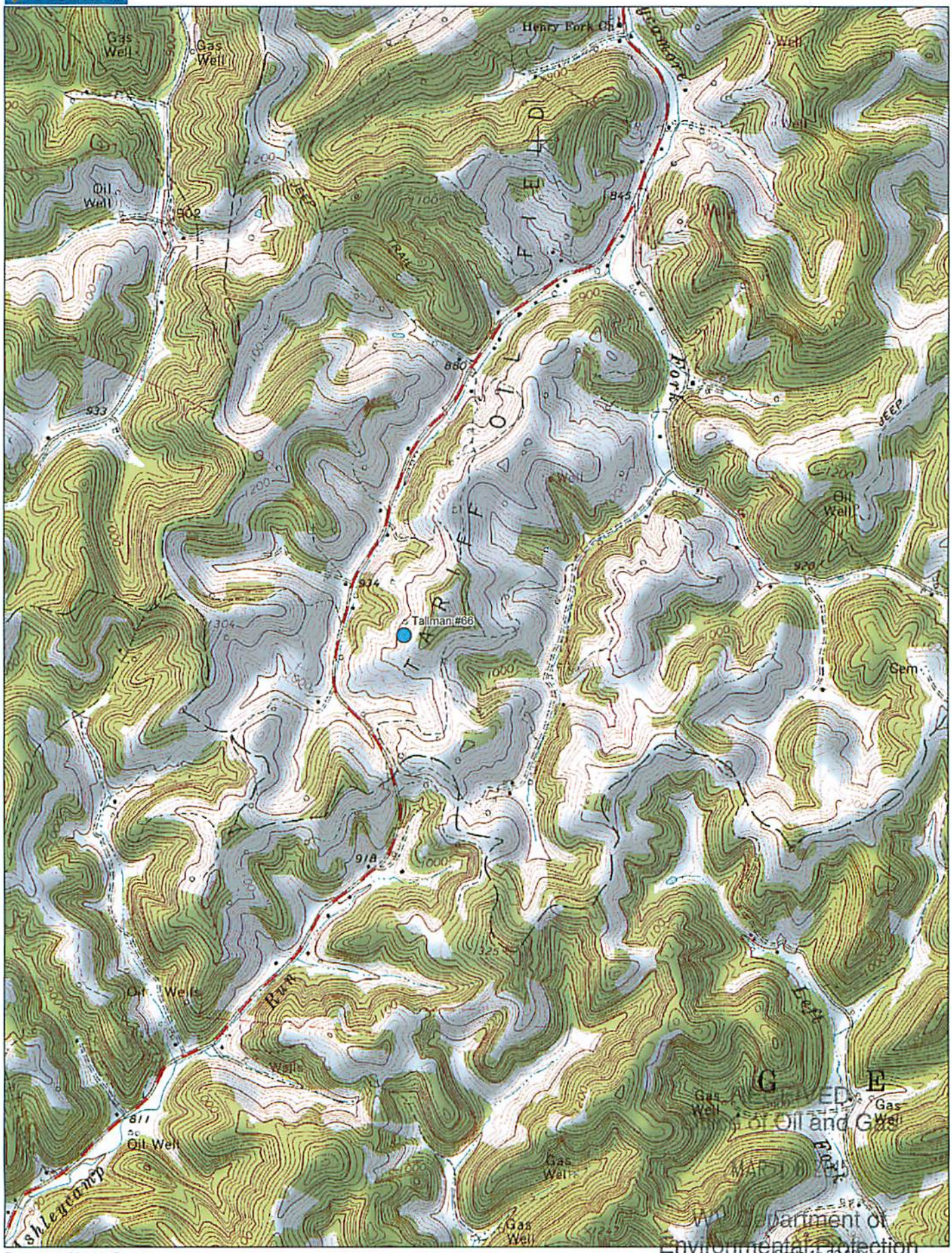
Office of Oil and Gas
MAR 16 2015
WV Department of
Environmental Protection

8703609P

DeLORME

XMap® 7



Department of Oil and Gas
Environmental Protection

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www.delorme.com

TN

MN (8.0°W)

Scale 1: 20,000

1" = 1,733.3 ft

Data Zoom 13-3

8703609 P

WW-7
8-30-06

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

API: 47-087-03609 **WELL NO.:** 66

FARM NAME: P.A. Tallman

RESPONSIBLE PARTY NAME: Triad Hunter, LLC

COUNTY: Roane **DISTRICT:** Smithfield

QUADRANGLE: Tariff

SURFACE OWNER: Triad Hunter, LLC

ROYALTY OWNER: TWW Anna Lee Collins

UTM GPS NORTHING: 4277830

UTM GPS EASTING: 481344 **GPS ELEVATION:** 1263'

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

Signature Geologist Title 3/17/15 Date