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**west virginia** department of environmental protection

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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: 47-8704165, 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: LOONEY 54  
Farm Name: WHITING, GOLDIE  
**API Well Number: 47-8704165**  
**Permit Type: Plugging**  
Date Issued: 06/11/2015

4708704165

## 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

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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.

06/12/2015

4708704165

WW-4A  
Revised 6-07

1) Date: 1/20/2015  
2) Operator's Well Number  
W.M. Looney # 54

3) API Well No.: 47 - 087 - 4165 **P**

**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>Anastasia Carman</u>	Name <u>N/A</u>
Address <u>1125 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.

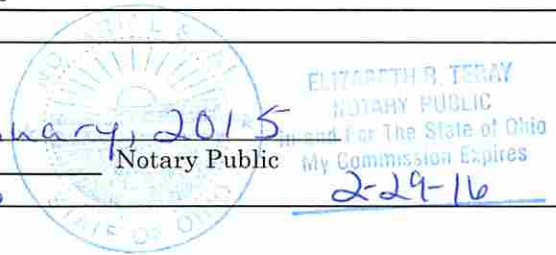
The reason you received these documents is that you have rights regarding the application which are summarized in the instructions on the reverses side. However, you are not required to take any action at all.

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

Received  
Office of Oil & Gas  
Jan 16 2015

Subscribed and sworn before me this 22nd day of January, 2015  
Elizabeth R. Terry Notary Public  
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](mailto:depprivacyoffier@wv.gov).

06/12/2015

4708704165  
87-4165F

7014 0150 0000 9042 1330

U.S. Postal Service™  
**CERTIFIED MAIL™ RECEIPT**  
(Domestic Mail Only; No Insurance Coverage Provided)  
For delivery information visit our website at [www.usps.com](http://www.usps.com)  
**OFFICIAL USE**

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



Sent To  
Anastasia Carman  
Street, Apt. No.,  
or PO Box No. 1125 Tariff Rd  
City, State, ZIP+4  
Left Hand WV 25251

PS Form 3800, August 2006 See Reverse for Instructions



Anastasia Carman

W.M. LOONEY  
#54, #55

(2 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

1) Date January 20, 2015  
2) Operator's  
Well No. W.M. Looney # 54  
3) API Well No. 47-087 - 4165

STATE OF WEST VIRGINIA  
DEPARTMENT OF ENVIRONMENTAL PROTECTION **4708704165**  
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 1184' 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 9) Plugging Contractor  
Name Ed Gainer Name N/A  
Address P.O. Box 821 Address \_\_\_\_\_  
Spencer, WV 25276

10) Work Order: The work order for the manner of plugging this well is as follows:

- 150' - 200' Bottom hole plug in 4 1/2" casing. *Across perfor*
- 100' - Cut plug (4.5" csg.) Estimated cement top @ 1564'.
- 100' - Elevation plug @ 1,200'.
- 100' - Surface casing plug @ 575'.
- 150' - Surface plug in 8 5/8" 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 # AFFIXED  
GCS*

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

State of West Virginia  
DEPARTMENT OF ENERGY  
Division of Oil and Gas

4708704165

Well Operator's Report of Well Work

Farm name: WHITING, GOLDIE Operator Well No.: LOONEY 54

LOCATION: Elevation: 1184.00 Quadrangle: TARIFF

District: SMITHFIELD County: ROANE  
Latitude: 4700 Feet South of 38 Deg. 40Min. 0 Sec.  
Longitude 3150 Feet West of 81 Deg. 12 Min. 30 Sec.

Company: PENNZOIL PRODUCTS COMPANY  
P. O. BOX 5519  
VIENNA, WV 26105-5519

Agent: JAMES A. CREWS

Inspector: HOMER DOUGHERTY  
Permit Issued: 08/13/91  
Well work Commenced: 9/18/91  
Well work Completed: 10/25/91  
Verbal Plugging  
Permission granted on:  
Rotary X Cable Rig  
Total Depth (feet) 2331'  
Fresh water depths (ft) N/A

Salt water depths (ft) N/A

Is coal being mined in area (Y/N)? N  
Coal Depths (ft): N/A

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
8 5/8"	561.40	561.40	245 Sks.
4 1/2"	2309.77	2309.77	150 Sks.

OPEN FLOW DATA

\* Producing formation Big Injun Pay zone depth (ft) 2220-2255  
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 pressure) after -- Hours

Second producing formation Pay zone depth (ft)  
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 pressure) after Hours

\* WELL IS A LIQUID INJECTION WELL

NOTE: ON BACK OF THIS FORM PUT THE FOLLOWING: 1). DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2). THE WELL LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE.

Received  
Office of Oil & Gas  
MAR 16 2015

For: PENNZOIL PRODUCTS COMPANY

By: Timothy P. Roush  
Date: January 21, 1992

*Timothy P. Roush*

06/12/2015

FRACTURE RECORD

4708704165

PERFORATED: Big Injun 2233 - 2252 with 10 holes.

FRACTURED: Big Injun w/250 gal. HF Acid, 161 Bbl. gelled water, and 1500# 20/40 sand

NOTE: This well was directionally drilled N85° 04'E 278' from surface location to bottom hole.

WELL LOG

0 - 165	Sandy Shale
165 - 185	Sand
185 - 845	Sandy Shale
845 - 993	Sand
993 - 1030	Shale
1030 - 1073	Sand
1073 - 1105	Shale
1105 - 1250	Shaley Sand
1250 - 1285	Shale
1285 - 1495	Shaley Sand
1495 - 1555	Shale
1555 - 1625	Sand
1625 - 1660	Shale
1660 - 1675	Sand
1675 - 1695	Shale
1695 - 2055	Salt Sand
2055 - 2090	Little Lime
2090 - 2110	Pencil Cave
2110 - 2220	Big Lime
<u>2220 - 2255</u>	Big Injun
2255 - 2331	Pocono Shale
<u>T.D. = 2331</u>	

Received  
Office of Oil & Gas  
MAR 16 2015

06/12/2015

STATE OF WEST VIRGINIA  
DEPARTMENT OF ENVIRONMENTAL PROTECTION  
OFFICE OF OIL AND GAS

4708704165

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 1184' 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 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.

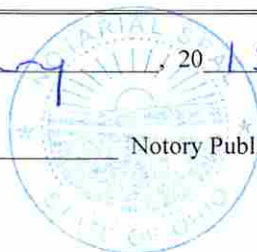
I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form and all attachments thereto and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is 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 *Rocky Roberts*  
 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 22<sup>nd</sup> day of January, 2015

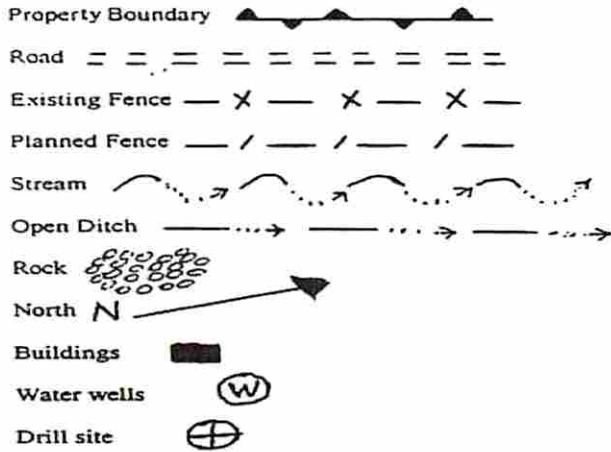
Elizabeth R. Tebay  
Notary Public



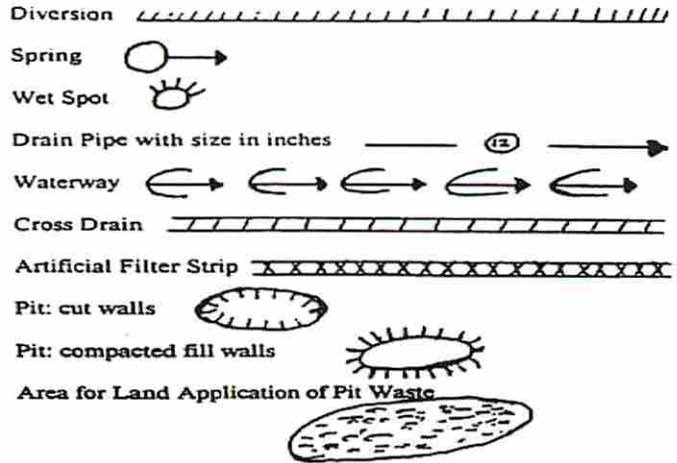
ELIZABETH R. TEBAY  
NOTARY PUBLIC  
and For The State of Ohio  
My Commission Expires  
2-29-16

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 lbs/acre	Seed Type	Area II lbs/acre
Orchard Grass	30%		
Rye (Annual & BT)	35%		
Timothy (Climax)	25%		
Clover (Med. Red)	10%		

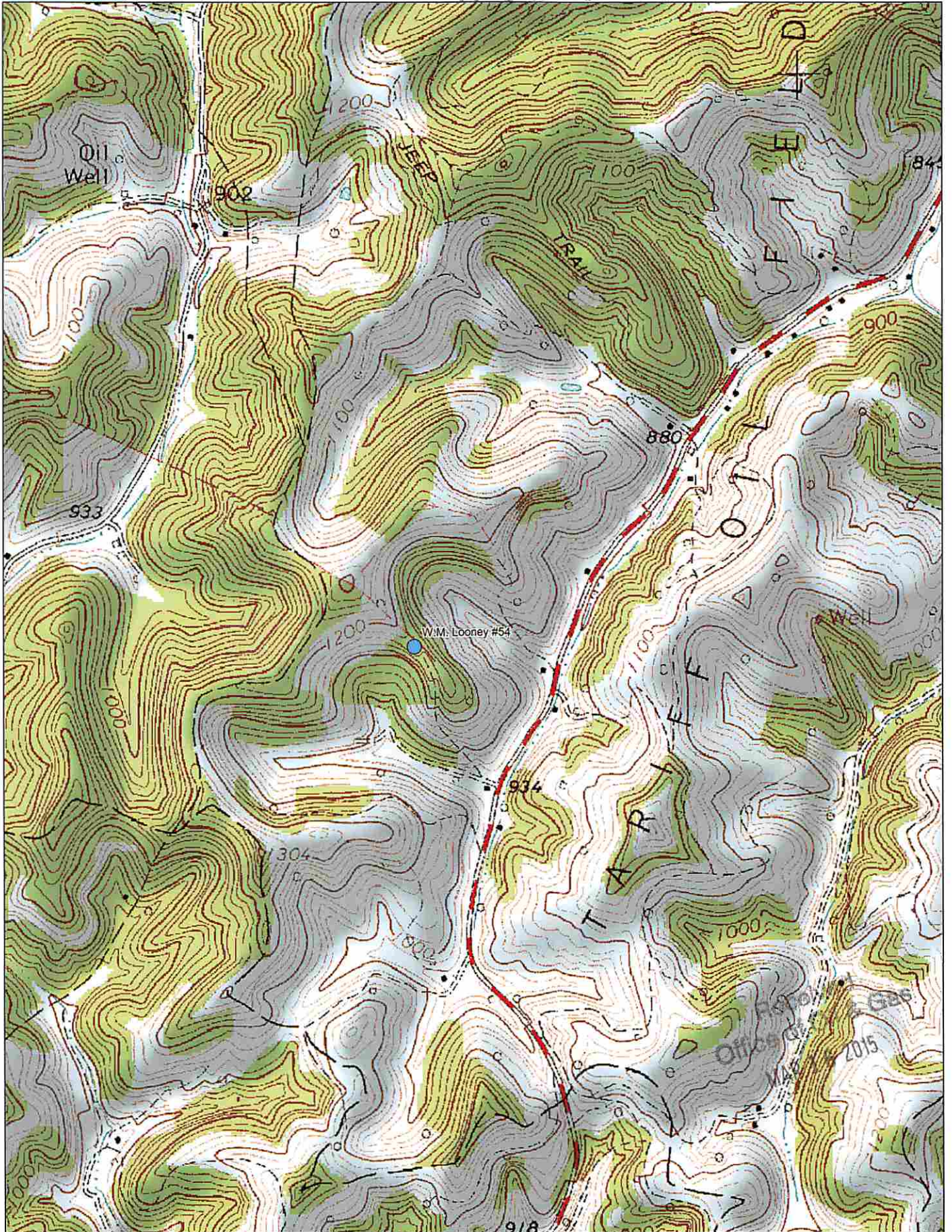
Attach:  
Drawing(s) of road, location, pit and proposed area for land application.

Photocopied section of involved 7.5' topographic sheet.

Plan Approved by: [Signature]  
 Comments: \_\_\_\_\_

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

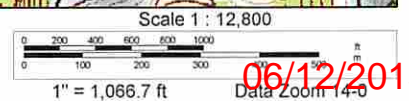
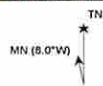
Received  
Office of Oil & Gas  
MAR 16 2015



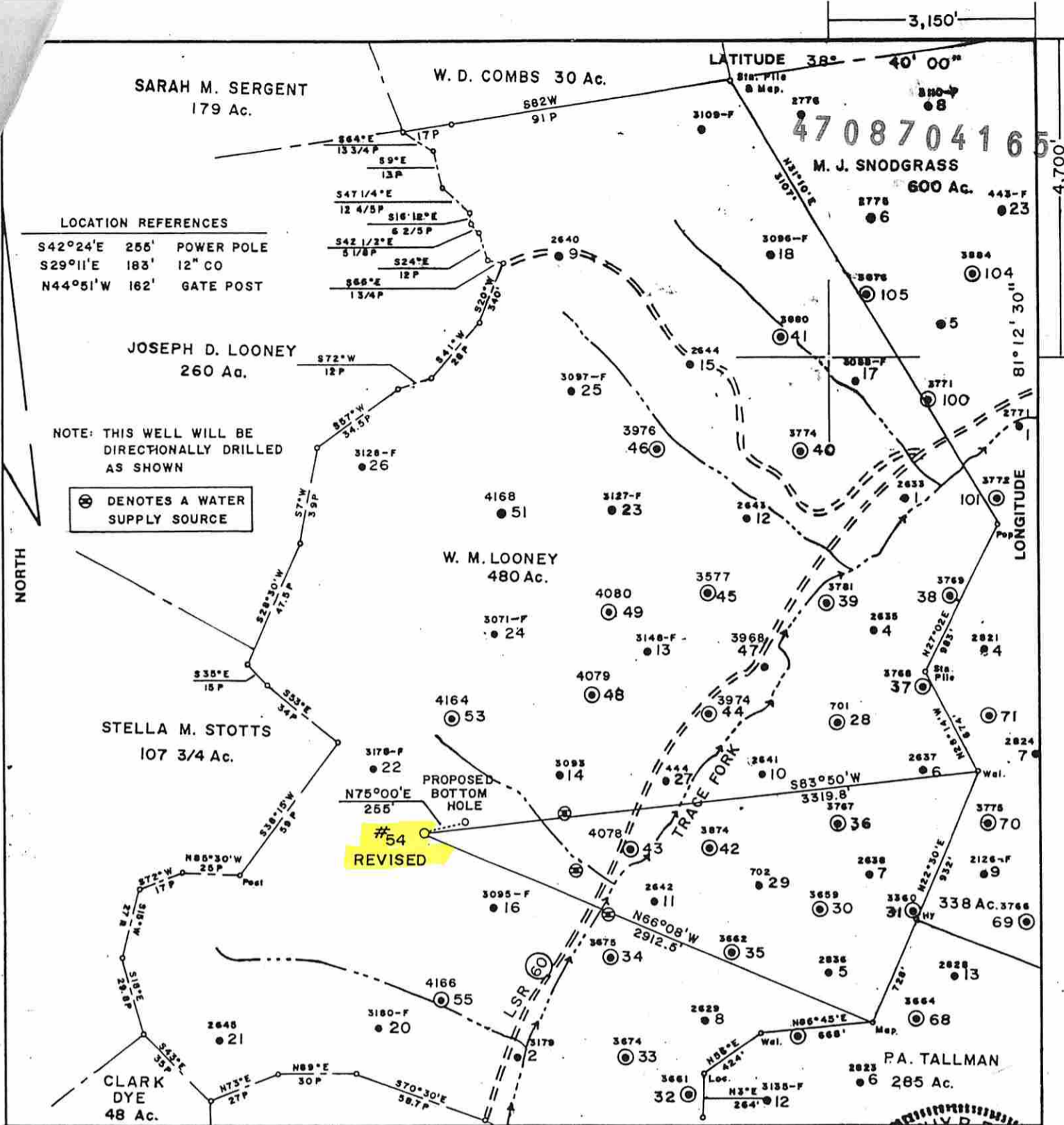
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06/12/2015



LOCATION REFERENCES  
 S42°24'E 255' POWER POLE  
 S29°11'E 183' 12" CO  
 N44°51'W 162' GATE POST

NOTE: THIS WELL WILL BE DIRECTIONALLY DRILLED AS SHOWN

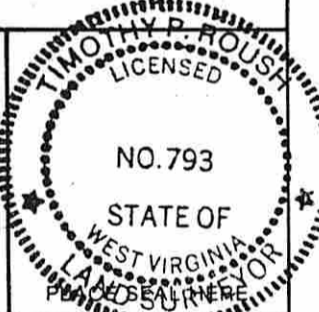
⊙ DENOTES A WATER SUPPLY SOURCE

NORTH

LONGITUDE 81° 12' 30"

FILE NO. 425  
 MAP 72 SQS S54 W35  
 SCALE 1"=800'  
 MINIMUM DEGREE OF ACCURACY 1' IN 200'  
 PROVEN SOURCE OF ELEVATION W.M. LOONEY #2  
928.71'

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) Timothy P. Roush  
 TIMOTHY P. ROUSH P.S. 793



STATE OF WEST VIRGINIA  
 DEPARTMENT OF MINES  
 OIL AND GAS DIVISION



DATE JULY 23, 19 91  
 FARM W. M. LOONEY NO. 54 REVISED  
 API WELL NO.

47 - 087 - 4165  
 STATE COUNTY PERMIT

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS  
 WELL TYPE: OIL \_\_\_ GAS \_\_\_ LIQUID INJECTION X WASTE DISPOSAL \_\_\_  
 (IF "GAS,") PRODUCTION \_\_\_ STORAGE \_\_\_ DEEP \_\_\_ SHALLOW \_\_\_  
 LOCATION: ELEVATION 1,184' WATER SHED TRACE FORK  
 DISTRICT SMITHFIELD COUNTY ROANE

QUADRANGLE TARIFF 7 1/2  
 SURFACE OWNER HARLEY CONLEY & THOMAS M. CONLEY ACREAGE 35.5 & 91  
 OIL & GAS ROYALTY OWNER KEITH CRIHFIELD LEASE ACREAGE 480 Ac.

LEASE NO. 60218-50  
 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 2,275'  
 WELL OPERATOR PENNZOIL COMPANY DESIGNATED AGENT JAMES A. CREWS,  
 ADDRESS P.O. BOX 5519 ADDRESS P.O. BOX 5519  
VIENNA, WV 26105 VIENNA, WV 26105

06/12/2015  
 Received  
 Office of Oil & Gas  
 JUN 18 2015

FORM IV-6 (8-78)  
 H. T. HALL



4708704165

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

API: 47-087-04165 P WELL NO.: 54

FARM NAME: W.M. Looney

RESPONSIBLE PARTY NAME: Triad Hunter, LLC

COUNTY: Roane DISTRICT: Smithfield

QUADRANGLE: Tariff

SURFACE OWNER: Anastasia Carman

ROYALTY OWNER: TUW Anna Lee Collins

UTM GPS NORTHING: 4278394

UTM GPS EASTING: 480925 GPS ELEVATION: 1216

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 Smith*  
Signature

Geologist  
Title

3/17/15  
Date

Operator: TRIAD HUNTER, LLC  
API: 8704165  
WELL No: LOONEY 54  
Reviewed by: GCS Date: 6/9/15  
15 Day End of Comment: 03/24/15

### 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)

06/12/2015