



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

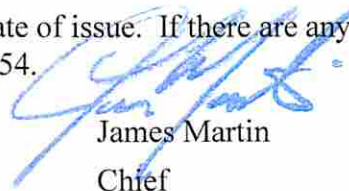
WELL WORK PLUGGING PERMIT

Plugging

This permit, API Well Number: 47-8704172, 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: W. M.LOONEY 50
Farm Name: LLOYD, JAMES C.
API Well Number: 47-8704172
Permit Type: Plugging
Date Issued: 06/11/2015

Promoting a healthy environment.

06/12/2015

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.

1) Date: 1/20/2015
2) Operator's Well Number
W.M. Looney # 50

3) API Well No.: 47 - 087 - 4172 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 James Lloyd	Name N/A
Address 549 Tariff Road	Address
Left Hand, WV 25251	
(b) Name	(b) Coal Owner(s) with Declaration
Address	Name N/A
	Address
(c) Name	Name
Address	Address
6) Inspector Ed Gainer	(c) Coal Lessee with Declaration
Address P.O. Box 821	Name N/A
Spencer, WV 25276	Address
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. Teray
 Notary Public
 My Commission Expires 2-29-16

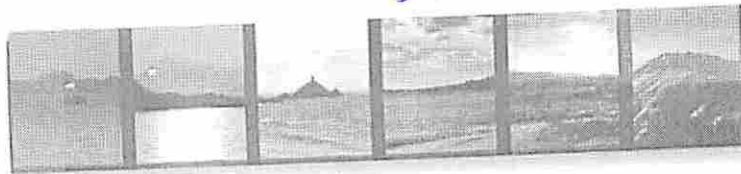


Oil and Gas Privacy Notice

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.

4708704172

87-4172P



7014 0150 0000 9042 1354

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

Sent to James Lloyd
 Street, Apt. No.,
 or PO Box No. 549 Tariff Rd
 City, State, ZIP+4® Left Hand, WV 25251

PS Form 3800, August 2008 See Reverse for Instructions

James Lloyd

W.M. LOONEY

#46, #49, #50, #52

(4 wells)

915 Greenbrier Road
Martinsburg, WV 26508
Toll Free 888 292 0081
Fax 304 292 0263



Expert Solutions.

www.martinsburgprinting.com

803 Quarrier St, Suite 310
Charleston, WV 25301
Toll Free 888 292 0001
Fax 304 343 0644

1) Date January 20 _____, 20 15 _____
2) Operator's
Well No. W.M. Looney # 50
3) API Well No. 47-087 - 4172 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 930' 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. for as per 15
- 100' - Cut plug (4.5" csg.) Estimated cement top @ 1300'.
- 100' - Elevation plug @ 925'
- 100' - Surface casing plug @ 325'.
- 100' - 150' Surface Plug inside 8 5/8" casing.

- Note! 1. All cement plugs - Class A cement.
- 2. Gel spacers between all cement plugs.
- 3. No coal seams reported.

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 [Signature] Date 3/9/15

FRACTURE RECORD

PERFORATED: Big Injun 1975 - 2008 w/30 Holes

87-4172

FRACTURES: Big Injun w/250 Gal. HF Acid, 152 Bbl. gelled water and
1500 lbs. of 20/40 Sand

NOTE: This well was directionally drilled N70°10'W 308' from surface location
to bottom hole.

WELL LOG

0 - 630	Sandy Shale
630 - 785	Sand
785 - 820	Shale
820 - 975	Sand
975 - 1035	Shale
1035 - 1070	Sand
1070 - 1090	Shale
1090 - 1455	Shaley Sand
1455 - 1740	1st Salt Sand
1740 - 1765	Shale
1765 - 1795	2nd Salt Sand
1795 - 1805	Shale
1805 - 1840	Little Lime
1840 - 1855	Pencil Cave
1855 - 1970	Big Lime
<u>1970 - 2010</u>	<u>Big Injun</u>
2010 - 2086	Pocono Shale
T.D. = 2087	

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

Well Operator's Report of Well Work **4708704172**

Farm name: LLOYD, JAMES C. Operator Well No.: W.M. LOONEY #50

LOCATION: Elevation: 930.00 Quadrangle: TARIFF

District: SMITHFIELD County: ROANE
Latitude: 2500 Feet South of 38 Deg. 40Min. 0 Sec.
Longitude 2300 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: 08/08/91
Well work Commenced: 10/3/91
Well work Completed: 10/25/91
Verbal Plugging
Permission granted on: _____
Rotary Cable _____ Rig
Total Depth (feet) 2087'
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"	305.06	305.06	100 Sk.
4 1/2"	2060.08	2060.08	150 Sk.

OPEN FLOW DATA

* Producing formation Big Injun Pay zone depth (ft) 1970-2010
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

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.

*WELL IS A LIQUID INJECTION WELL

For: PENNZOIL PRODUCTS COMPANY

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

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 930' 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 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

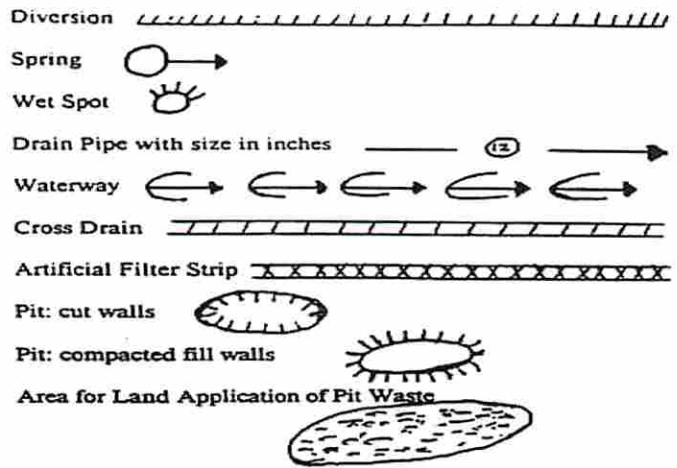
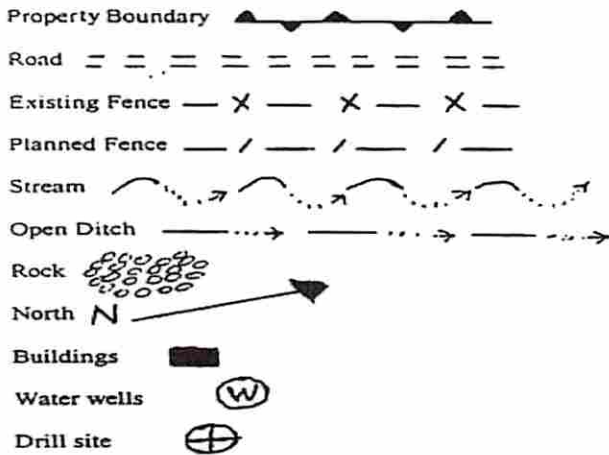
Subscribed and sworn before me this 22nd day of January, 20 15

[Signature] Notary Public



My commission expires 2-29-16

LEGEND



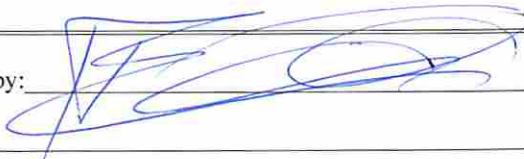
Proposed Revegetation Treatment: Acres Disturbed one (1) Prevegetation pH 5.5
 Lime Two (2) Tons/acre or to correct to pH 6.5
 Fertilizer (10-20-20 or equivalent) 500 lbs/acre (500 lbs minimum)
 Mulch (50 bales) 2.5 Tons/acre

Seed Mixtures

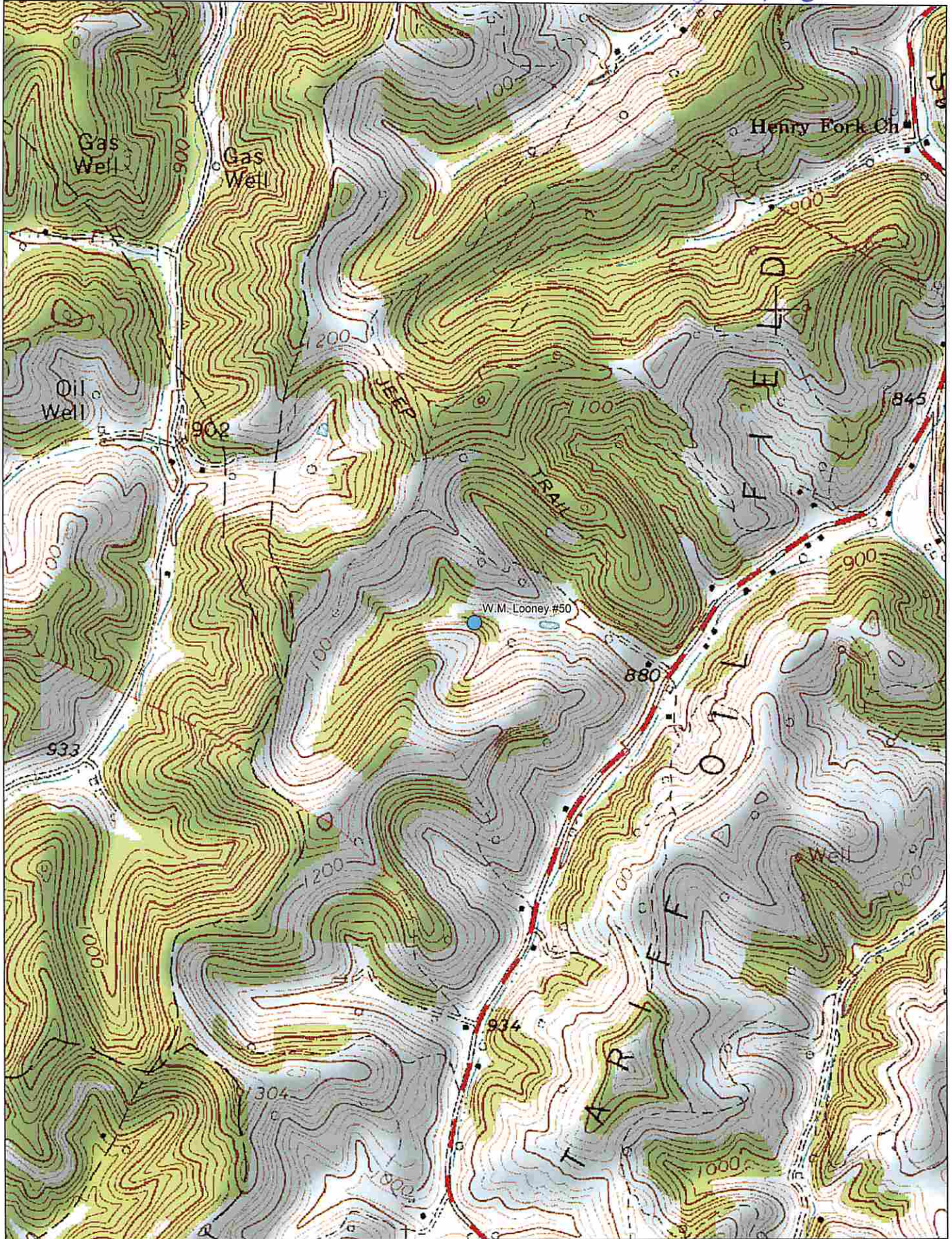
Seed Type	Area I lbs/acre	Seed Type	Area II lbs/acre
Orchard Grass	30%		
Rye (Annual & BT)	35%		
Timothy (Climax)	25%		
Clover (Med. Red)	10%		

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

Photocopied section of involved 7.5' topographic sheet.

Plan Approved by: 
 Comments: _____

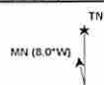
Title: Inspector Date: 3/9/15
 Field Reviewed? () Yes () No



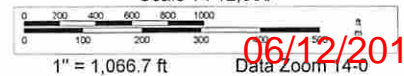
Data use subject to license.

© DeLorme. XMap® 7.

www.delorme.com



Scale 1 : 12,800



06/12/2015

2,300'

SARAH M. SERGENT
179 Ac.

W. D. COMBS 30 Ac.

LATITUDE 38° 40' 00"

47 087 04 172

M. J. SNODGRASS
600 Ac.

LOCATION REFERENCES
N47°50'W 182' 6" BUCKEYE
N86°25'E 226' 30" WO

JOSEPH D. LOONEY
260 Ac.

NOTE: NO KNOWN WATER
SUPPLY SOURCES
LOCATED WITHIN
1000'

PROPOSED
BOTTOM HOLE
LOCATION
NOTE: THIS WELL WILL BE
DIRECTIONALLY DRILLED

PROPOSED
NO. 50
REVISED

W. M. LOONEY
480 Ac.

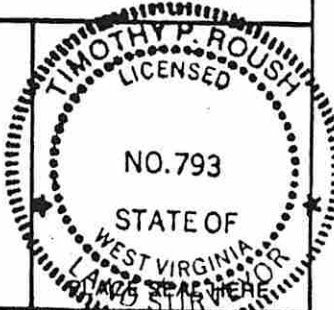
STELLA M. STOTTS
107 3/4 Ac.

CLARK
DYE
48 Ac.

P.A. TALLMAN
285 Ac.

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 #24
= 1,263.21'

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 REGU-
LATIONS ISSUED AND PRESCRIBED BY THE DEPART-
MENT OF MINES
(SIGNED) Timothy P. Roush
TIMOTHY P. ROUSH P.S. 793



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION



DATE JUNE 20, 1991
FARM W. M. LOONEY NO. 50-REV
API WELL NO.

47 - 087 -
STATE COUNTY PERMIT

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS
WELL TYPE: OIL ___ GAS ___ LIQUID INJECTION ___ WASTE DISPOSAL ___
(IF "GAS,") PRODUCTION ___ STORAGE ___ DEEP ___ SHALLOW ___
LOCATION: ELEVATION 930' WATER SHED TRACE FORK
DISTRICT SMITHFIELD COUNTY ROANE
QUADRANGLE TARIFF 7 1/2

SURFACE OWNER JAMES C. LLOYD ACREAGE 136 Ac.
OIL & GAS ROYALTY OWNER KEITH CRIFIELD LEASE ACREAGE 480 Ac.
LEASE NO. 60218-50

06/12/2015

PROPOSED WORK: DRILL CONVERT ___ DRILL DEEPER ___ REDRILL ___ FRACTURE OR
STIMULATE ___ PLUG OFF OLD FORMATION ___ PERFORATE NEW
FORMATION ___ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) ___

Received
Office of Oil & Gas
MAR 16 2015

PLUG AND ABANDON ___ CLEAN OUT AND REPLUG ___
TARGET FORMATION BIG INJUN ESTIMATED DEPTH 2,060'
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

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

WW-7
8-30-06



West Virginia Department of Environmental Protection
Office of Oil and Gas

WELL LOCATION FORM: GPS

API: 47-087-04172 P WELL NO.: 50

FARM NAME: W.M. Looney

RESPONSIBLE PARTY NAME: Triad Hunter, LLC

COUNTY: Roane DISTRICT: Smithfield

QUADRANGLE: Tariff

SURFACE OWNER: James Lloyd

ROYALTY OWNER: TUW Anna Lee Collins

UTM GPS NORTHING: 4279045

UTM GPS EASTING: 481191 GPS ELEVATION: 970

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 Department of
Date Environmental Protection

RECEIVED
Office of Oil and Gas
MAR 26 2015

I

Operator: TRIAD HUNTER, LLC
 API: 8704172
 WELL No: W. M.LOONEY 50
 Reviewed by: GCS Date: 6/10/15
 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