



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: 47-8704166, 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 55
Farm Name: CONLEY, THOMAS
API Well Number: 47-8704166
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 # 55

3) API Well No.: 47 - 087 - 4166 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

Subscribed and sworn before me this 22nd day of January, 2016
Elizabeth R. Tebay 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.

4708704166

87-4166P



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	\$	

7014 0150 0000 9042 1330

Send 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

(Zwells)

915 Greenbug Road
 Morganstown WV 26566
 Toll Free 888.292.0001
 Fax 304.292.0207



Expert Solutions.
www.morgantownprinting.com

803 Quairnel 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 # 55
3) API Well No. 47-087 - 4166

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 942' 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 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 4 1/2" casing. *Across parts*
 100' - Cut plug (4.5" csg.) Estimated cement top @ 1319'.
 100' - Elevation plug @ 950'.
 100' - Surface casing plug @ 350'.
 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
SCS

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

4708704166

Well Operator's Report of Well Work

Farm name: CONLEY, THOMAS

Operator Well No.: ~~W.M. LOONEY#55~~

LOCATION: Elevation: 942.00 Quadrangle: TARIFF

District: SMITHFIELD County: ROANE
Latitude: 5750 Feet South of 38 Deg. 40Min. 0 Sec.
Longitude 2950 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: 06/27/91
Well work Commenced: 9/27/91
Well work Completed: 10/25/91
Verbal Plugging
Permission granted on: _____
Rotary Cable _____ Rig
Total Depth (feet) 2090
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"	345.88'	345.88'	150 Sks.
4 1/2"	2065.20'	2065.20'	150 Sks.

OPEN FLOW DATA

* Producing formation Big Injun Pay zone depth (ft) 1950-1985
 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 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.

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Office of Oil & Gas
MAR 16 2015

For: PENNZOIL PRODUCTS COMPANY

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

FRACTURE RECORD

47 087 04166
87 9/68

PERFORATED: Big Injun 1960-1985 with 21 Holes

FRACTURES: Big Injun w/250 gal. HF Acid, 156 bbl. gelled water and 1500# 20/40 sand.

WELL LOG

0 - 615	Sandy Shale
615 - 765	Sand
765 - 805	Shale
805 - 850	Sand
850 - 870	Shale
870 - 970	Shaley Sand
970 - 995	Shale
995 - 1065	Sand
1065 - 1175	Sandy Shale
1175 - 1245	Shaley Sand
1245 - 1315	Sandy Shale
1315 - 1455	Shaley Sand
1455 - 1790	Salt Sand
1790 - 1830	Little Lime
1830 - 1845	Pencil Cave
1845 - 1950	Big Lime
1950 - 1985	<u>Big Injun</u>
1985 - 2090	Pocono Shale
T.D. = 2090	

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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 942' 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 *Rocky Roberts*

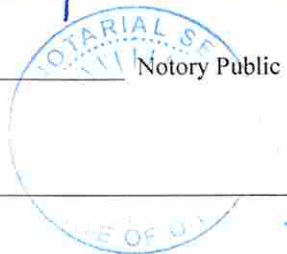
Company Official (Typed Name) Rocky Roberts

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. Juby



My commission expires 2-29-16

06/12/2015

87-4166P

Operator's Well No. W.M. Looney # 55

4708704166

LEGEND

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

- Diversion
- Spring
- Wet Spot
- Drain Pipe with size in inches
- 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

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:

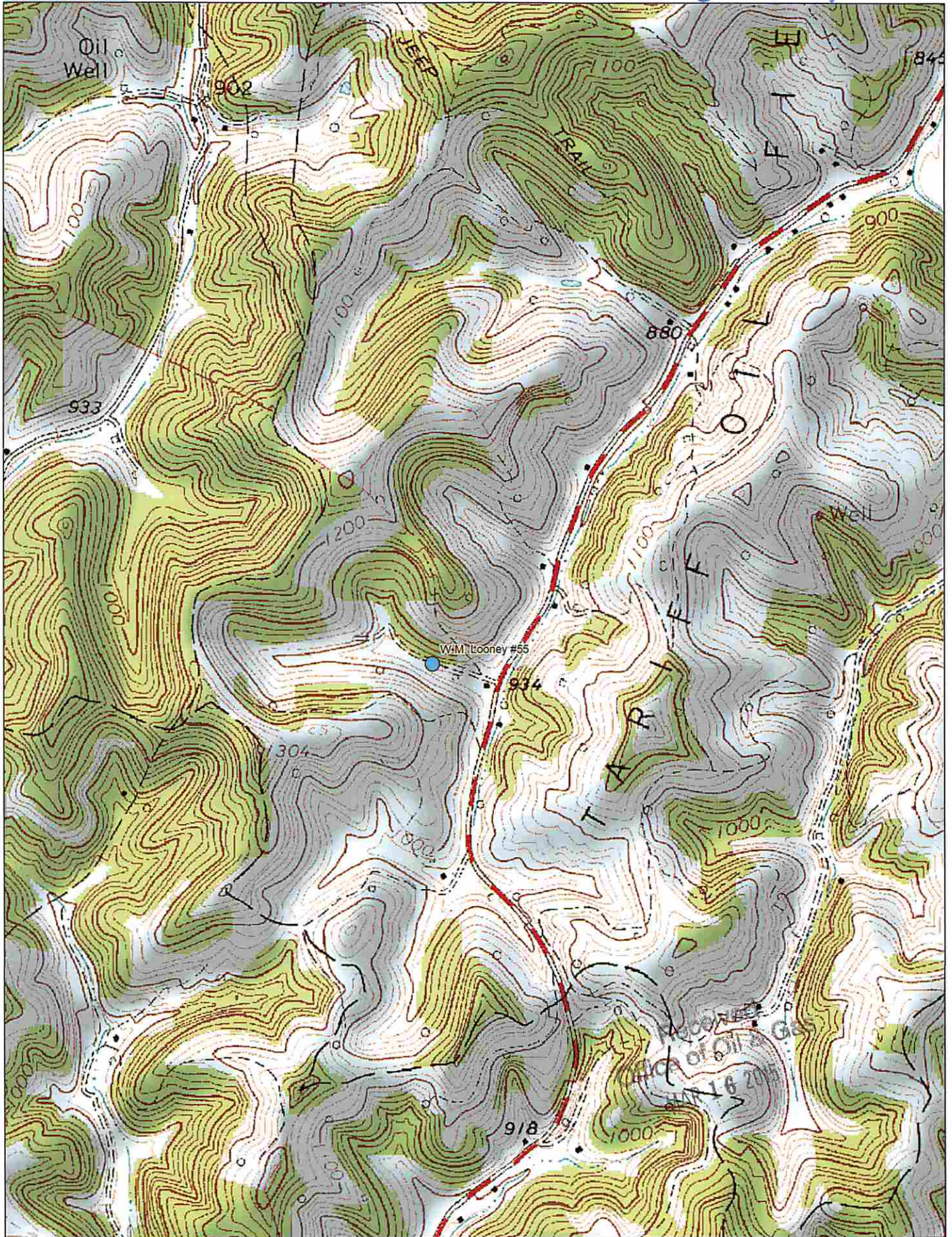
Comments: _____

Title: Inspector

Date: 3/9/15

Field Reviewed? Yes No

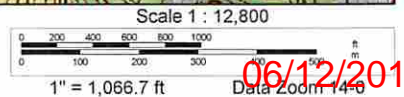
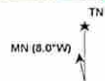
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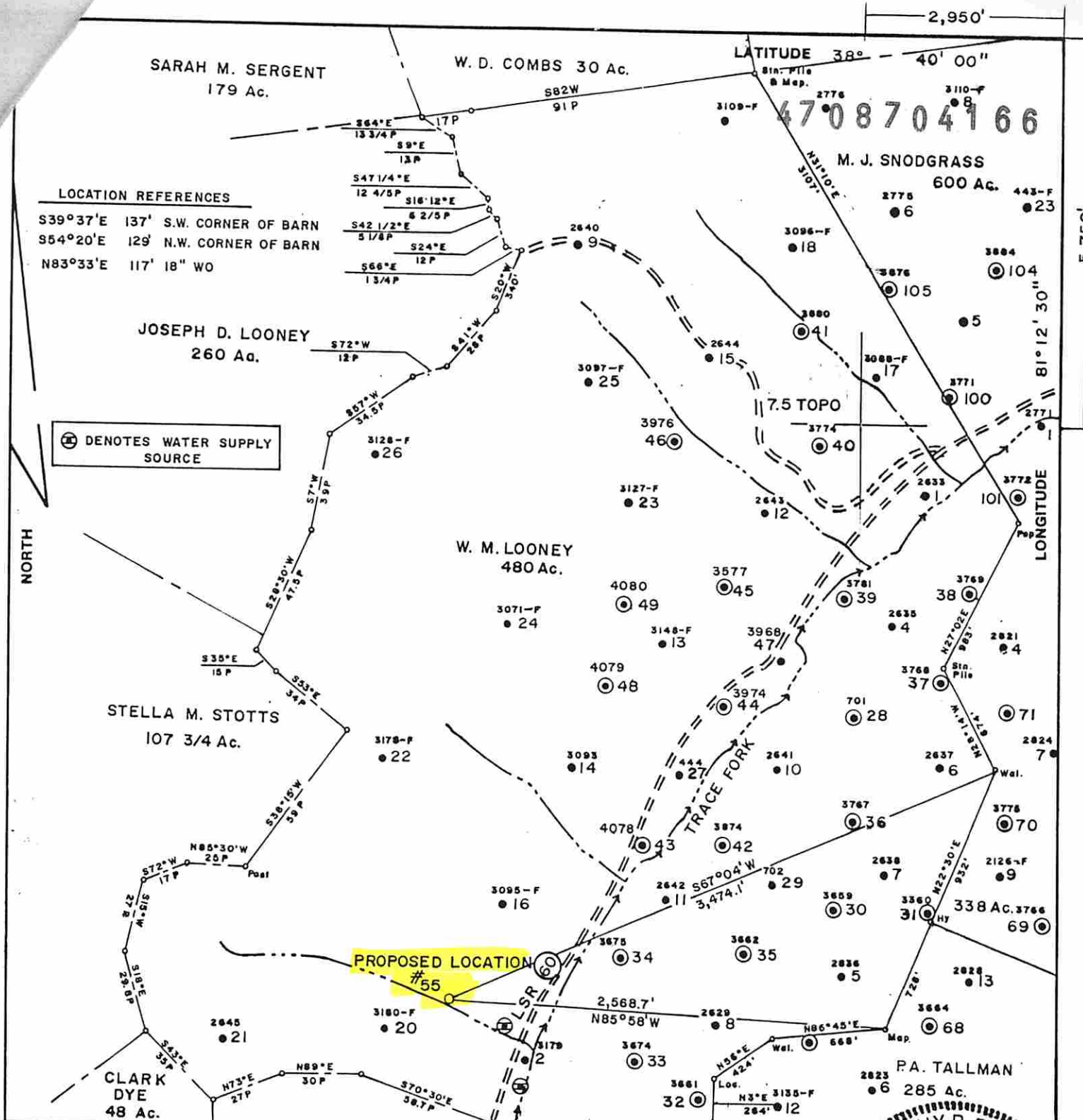


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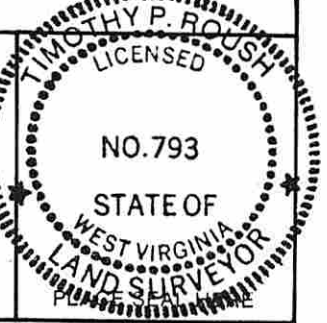
LOCATION REFERENCES

S39°37'E 137' S.W. CORNER OF BARN
 S54°20'E 129' N.W. CORNER OF BARN
 N83°33'E 117' 18" WO

⊕ DENOTES WATER SUPPLY SOURCE

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 MAY 24, 19 91
 FARM W. M. LOONEY NO. 55
 API WELL NO.

47 - 087
 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 942' WATER SHED TRACE FORK
 DISTRICT SMITHFIELD COUNTY ROANE
 QUADRANGLE TARIFF 7 1/2
 SURFACE OWNER THOMAS M. CONLEY ACREAGE 91 Ac.
 OIL & GAS ROYALTY OWNER KETH CRIFIELD 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 2,032'
 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

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 Office of Oil & Gas
 MAR 16 2015

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



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

API: 47-087-04166P WELL NO.: 55

FARM NAME: W.M. Looney

RESPONSIBLE PARTY NAME: Triad Hunter, LLC

COUNTY: Roane DISTRICT: Smithfield

QUADRANGLE: Tariff

SURFACE OWNER: Anastasia Carman

ROYALTY OWNER: TW Anna Lee Collins

UTM GPS NORTHING: 4278094

UTM GPS EASTING: 480971 GPS ELEVATION: 1011

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.

[Signature]
Signature

Geologist
Title

3/17/15
MAR 26 2015

RECEIVED
Office of Oil and Gas
Date
WV Department of
Environmental Protection
06/12/2015

I
Operator: TRIAD HUNTER, LLC
API: 8704166
WELL No: W. M. LOONEY 55
Reviewed by: GCS Date: 6/9/15
05 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