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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](http://www.dep.wv.gov)

June 24, 2015

**WELL WORK PLUGGING PERMIT**

**Plugging**

This permit, API Well Number: 47-9500569, 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: BK-8  
Farm Name: FERRELL, WM.  
**API Well Number: 47-9500569**  
**Permit Type: Plugging**  
Date Issued: 06/24/2015

**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.

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### 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.

CK #001079  
9100<sup>02</sup>

9500569P

- 1) Date March 15, 2015
- 2) Operator's  
Well No. Wm. Ferrell # 8
- 3) API Well No. 47-095 - 0568

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 X / Gas X / Liquid injection      / Waste disposal      /  
(If "Gas, Production      or Underground storage     ) Deep      / Shallow X

5) Location: Elevation                      Watershed Elk Fork  
District Ellsworth County Tyler Quadrangle Porters Falls

6) Well Operator Triad Hunter LLC 7) Designated Agent Kimberly Arnold  
Address 125 Putnam Street Address P.O. Box 154  
Marietta, Ohio 45750 Waverly, WV

8) Oil and Gas Inspector to be notified 9) Plugging Contractor  
Name Michael Goff Name                                       
Address P.O. Box 134 Address                                       
Pullman, WV 26421

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

( SEE ATTACHMENT )

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

Work order approved by inspector Michael Goff Date 4/2/15

**ELK FORK PLUGGING PROCEDURE****( 2015 )**

1. Remove rods and tubing and clean hole to total depth.
2. Run tubing to the base of the shot hole and cement shot hole with 50 – 75 sacks of Class A Cement ( **Bottom Hole Plug** ).
3. Try to pull 5 3/16" or 4 7/8" casing. If unable to pull casing, set tubing just below casing string and pump a 100' Class A cement plug ( **Casing Plug** ).
4. MIRU wireline company; check depth of cement plug and cut / rip casing apart just below elevation depth. Pull casing OOH.
5. Run tubing to depth of casing cut and set a 100' Class A cement plug in annulus ( **Cut Plug** ). Pull tubing OOH.
6. Run wireline back in hole; check depth of cement plug and perforate the 6 1/4" or 6 5/8" casing @ 200 feet with 4-6 perforations.
7. Run tubing just below the perforations and circulate Class A Cement to surface. Pull tubing out of hole and top load hole with Class A Cement ( **Surface Plug** ).
8. Erect / Weld a 3' x 6" monument pipe to the existing casing. Load monument pipe with Class A Cement and attach an identification plate to the monument pipe containing the permit number of the well.
9. Remove service rig and all other supporting equipment including tanks, separator, and other production equipment.
10. Reclaim well site and lease road.

MAG  
4/2/15**NOTE!** Pump gel spacers between all cement plugs.

ELK FORK FIELD

Permit Number: 47-095-0569 Well Name: Wm. Ferrell #8

District: Ellsworth County: Tyler

Date Drilled: N/A Total Depth: 1659' Elevation: N/A  
Drilled Deeper - 1707'

Producing Zone: Keener Shot Hole Depth: No record

Casing Depths: 10" 350' 8 1/4" 840' Tubing Depth: 2" \_\_\_\_\_

6 5/8" \_\_\_\_\_ 6 1/4" 1505'

5 3/16" \_\_\_\_\_ 4 7/8" 1569'

Remarks: 1st Pay = 1647'  
N/A

\_\_\_\_\_  
(unknown)



9500569P



Select County: (095) Tyler      Select datatypes:  (Check All)

Enter Permit #: 0569

Location       Production       Plugging

Owner/Completion       Stratigraphy       Sample

Pay/Show/Water       Logs       Btm Hole Loc

- [Table Descriptions](#)
- [County Code Translations](#)
- [Permit Numbering Series](#)
- [Usage Notes](#)
- [Contact Information](#)
- [Disclaimer](#)
- [WVGES Main](#)
- ["Pipeline-Plus" New](#)

WV Geological & Economic Survey:

Well: County = 95 Permit = 0569

Report Time: Thursday, February 14, 2013 4:04:27 PM

Location Information: [View Map](#)

API	COUNTY	PERMIT	TAX_DISTRICT	QUAD_75	QUAD_15	LAT_DD	LON_DD	UTME	UTMN
4709500569	Tyler	569	unknown	unknown	unknown				

There is no Bottom Hole Location data for this well

Owner Information:

API	CMP_DT	SUFFIX	STATUS	SURFACE_OWNER	WELL_NUM	CO_NUM	LEASE	LEASE_NUM	MINERAL_OWN	OPERATOR	PROP_VD	PROP_TRGT_FM
4709500569	-/-		Original Loc	Completed	William Ferrell 8					Pennzoil Company		

Completion Information:

API	CMP_DT	SPUD_DT	ELEV	DATUM	FIELD	DEEPEST_FM	DEEPEST_FMT	INITIAL_CLASS	FINAL_CLASS	TYPE	RIG	CMP_MTHD	TVD	TMD	NEW_FTG	G_BEF	G_AFT	O_BEF	O_AFT	P
4709500569	-/-	-/-			Unnamed			unclassified	unclassified	not available	unknown	unknown			0	0	0	0	0	0

There is no Pay data for this well

Production Gas Information:

API	OPERATOR	PRD_YEAR	ANN_GAS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DCM
4709500569	Pennzoil Company	1981	0	0	0	0	0	0	0	0	0	0	0	0	0
4709500569	Pennzoil Company	1982	0	0	0	0	0	0	0	0	0	0	0	0	0
4709500569	Pennzoil Company	1983	0	0	0	0	0	0	0	0	0	0	0	0	0
4709500569	Triad Resources, Inc.	2001	5	0	0	0	0	0	5	0	0	0	0	0	0
4709500569	Triad Resources, Inc.	2003	10	10	0	0	0	0	0	0	0	0	0	0	0
4709500569	Triad Resources, Inc.	2004	0	0	0	0	0	0	0	0	0	0	0	0	0

Production Oil Information:

API	OPERATOR	PRD_YEAR	ANN_OIL	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DCM
4709500569	Pennzoil Company	1981	175	0	0	0	0	0	0	0	0	0	0	0	0
4709500569	Pennzoil Company	1982	67	0	0	0	0	0	0	0	0	0	0	0	0
4709500569	Pennzoil Company	1983	64	0	0	0	0	0	0	0	0	0	0	0	0
4709500569	Triad Resources, Inc.	2001	0	0	0	0	0	0	0	0	0	0	0	0	0
4709500569	Triad Resources, Inc.	2003	0	0	0	0	0	0	0	0	0	0	0	0	0
4709500569	Triad Resources, Inc.	2004	0	0	0	0	0	0	0	0	0	0	0	0	0

There is no Stratigraphy data for this well

There is no Wireline (E-Log) data for this well

There is no Plugging data for this well

There is no Sample data for this well

CK# 001079  
\$10000

9500569P

WW-4A  
Revised 6-07

1) Date: March 15, 2015  
2) Operator's Well Number  
Wm. Ferrell # 8

3) API Well No.: 47 - 095 - 0569

**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>Charles E. and Laura L. Friend</u>	Name <u>N/A</u>
Address <u>2638 Elk Fork Road</u>	Address _____
<u>Middlebourne, WV 26149</u>	_____
(b) Name _____	(b) Coal Owner(s) with Declaration
Address _____	Name <u>N/A</u>
_____	Address _____
(c) Name _____	Name _____
Address _____	Address _____
_____	_____
6) Inspector <u>Michael Goff</u>	(c) Coal Lessee with Declaration
Address <u>P.O. Box 134</u>	Name <u>N/A</u>
<u>Pullman, WV 26421</u>	Address _____
Telephone <u>(304) 549-9823</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 VP Appalachian Operations  
 Address 125 Putnam Street  
Marietta, Ohio 45750  
 Telephone (740) 374-2940

Subscribed and sworn before me this 1<sup>st</sup> day of April, 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](mailto:depprivacyoffier@wv.gov).

9500569P

*ll*

CR 0010179  
1000

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Sent To  
 Charles & Laura Friend  
 Street, Apt. No.,  
 or PO Box No. 2638 Elk Fork Rd  
 City, State, ZIP+4  
 Middlebourne, WV 26149

PS Form 3800, August 2006 See Reverse for Instructions

(I well)

William Fennell

# 8

P# 47-095-00569

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Office of Oil & Gas  
APR 23 2015

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Sent To  
 Charles & Laura Friend  
 Street, Apt. No.,  
 or PO Box No. 2638 Elk Fork Rd  
 City, State, ZIP+4  
 Middlebourne, WV 26149

PS Form 3800, August 2006 See Reverse for Instructions

9500569A

WW-9  
Rev. 5/08

Page 1 of 2  
API Number 47 - 095 - 0569  
Operator's Well No. Wm. Ferrell # 8

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 494494833

Watershed Elk Fork Quadrangle Porters Falls

Elevation \_\_\_\_\_ County Tyler District Ellsworth

Description of anticipated Pit Waste: saltwater, oil, freshwater

Will a synthetic liner be used in the pit? yes 20 mi.

MAG  
4/2/15

Proposed Disposal Method For Treated Pit Wastes:

- Land Application
- Underground Injection ( UIC Permit Number UIC # 2D0859721 )
- Reuse (at API Number \_\_\_\_\_)
- Off Site Disposal (Supply form WW-9 for disposal location)
- Other (Explain \_\_\_\_\_)

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.

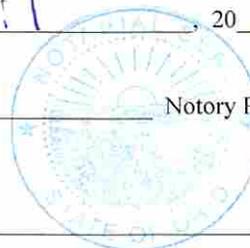
Company Official Signature [Signature]

Company Official (Typed Name) Rocky Roberts

Company Official Title Senior VP Appalachian Operations

Subscribed and sworn before me this 1st day of April, 20 15

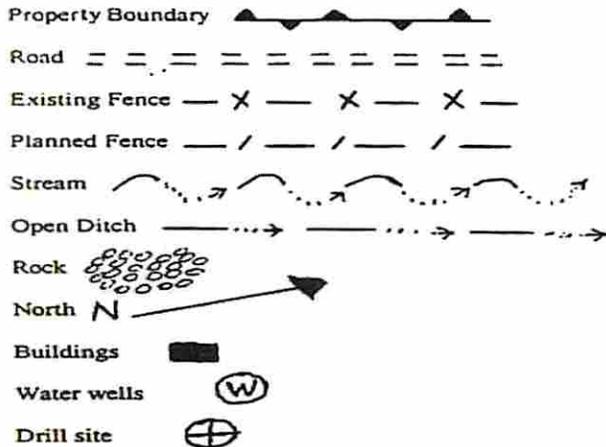
[Signature]



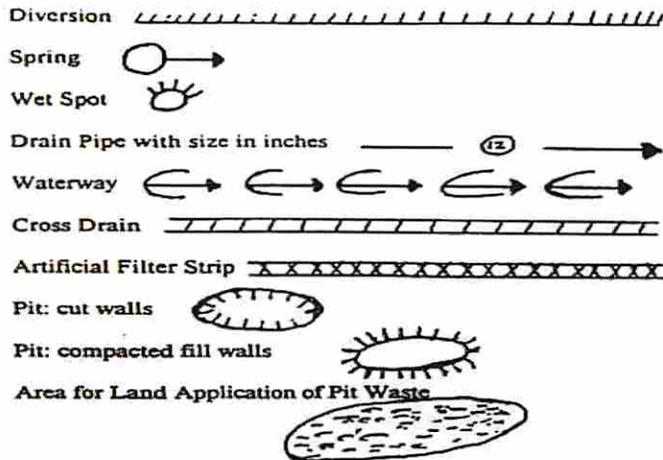
Notary Public

ELIZABETH R. TERRY  
Notary Public  
In 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 +/- 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 1 - 1.5 ( 50-75 bales ) Tons/acre

Seed Mixtures

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

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

Photocopied section of involved 7.5' topographic sheet.

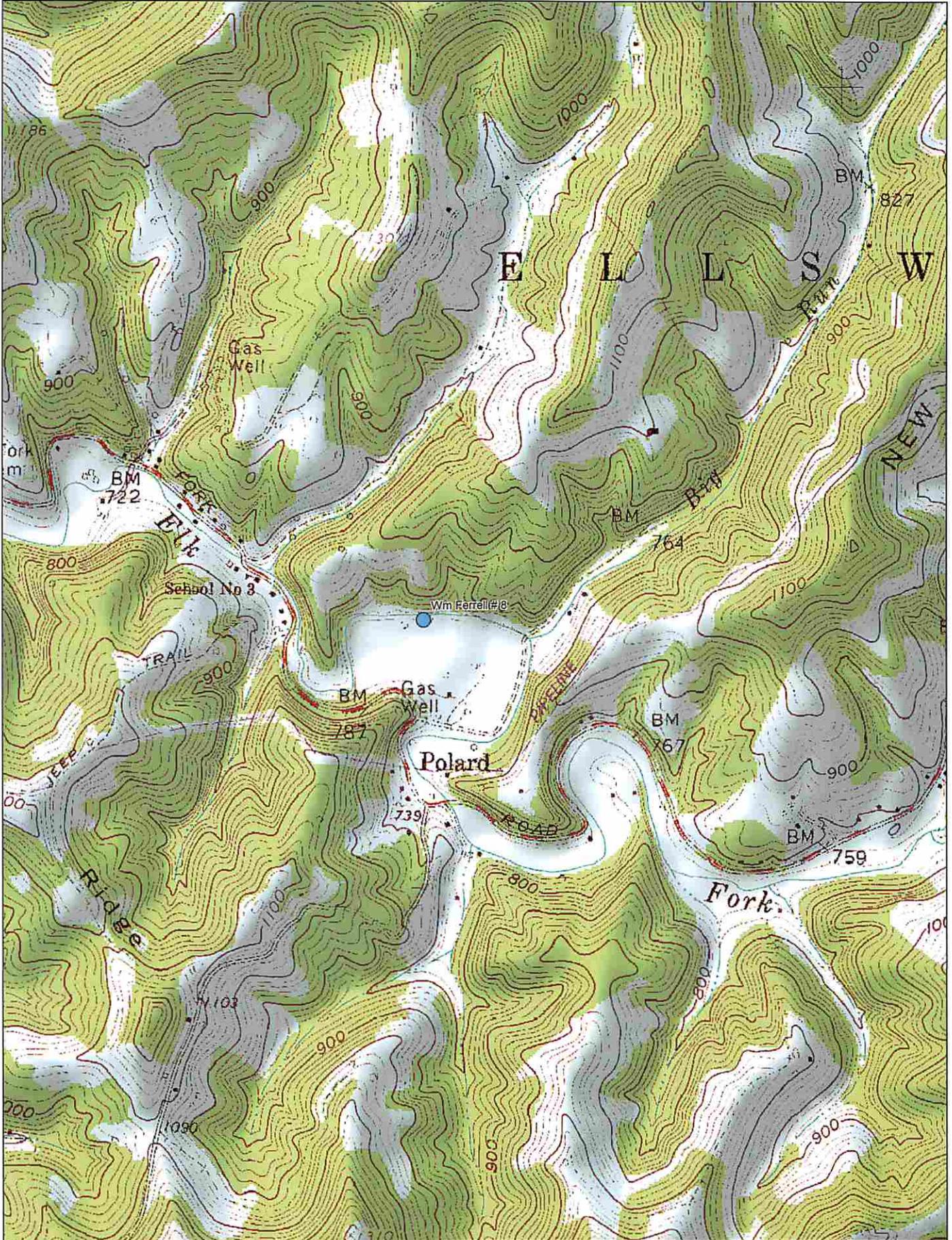
Plan Approved by: Michael Doff

Comments: Preseed & mulch any disturbed areas per WVDEP regs. maintain or upgrade E-n-s as necessary.

Title: Oil & Gas Inspector Date: 4/2/15

Field Reviewed?  Yes  No

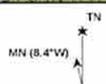
9500569P



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Scale 1 : 16,000



1" = 1,333.3 ft Data Zoom 13-6

WW-7  
8-30-06



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

API: 47-095-00569 WELL NO.: 8

FARM NAME: Wm. Ferrell

RESPONSIBLE PARTY NAME: Triad Hunter, LLC

COUNTY: Tyler DISTRICT: Ellsworth

QUADRANGLE: Porters Falls

SURFACE OWNER: Charles E. & Laura L. Friend

ROYALTY OWNER: Shiben Estates, Inc.

UTM GPS NORTHING: 513035.4 4375250.9

UTM GPS EASTING: 4375250.9 513035.4 GPS ELEVATION: 765'

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.

Bon Metzger  
Signature

Geologist  
Title

3/27/15  
Date

I  
NOW

Operator: TRIAD HUNTER, LLC

API: 9500569

WELL No: BK-8

Reviewed by: gmm Date: 6/22/15

15 Day End of Comment: 6/28/15

CHECKLIST FOR FILING A PERMIT

Plugging

CK# 001079  
\$100<sup>00</sup>

- 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)