



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 24, 2015

WELL WORK PLUGGING PERMIT

Plugging

This permit, API Well Number: 47-9500567, 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: 5
Farm Name: FERRELL, WILLIAM
API Well Number: 47-9500567
Permit Type: Plugging
Date Issued: 06/24/2015

Promoting a healthy environment.

06/26/2015

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.
4. This well is under a consent order and must be plugged under the terms of that agreement.

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.

NOTE! Pump gel spacers between all cement plugs.

WJCW
4-20-2015
Received
Office of Oil & Gas
APR 23 2015

ELK FORK FIELD

Permit Number : 47-095-0567

Well Name : Wm. Ferrell #5 OR #3 (P# Tyl#131)

District : Ellsworth

County : Tyler

Date Drilled : June 1942

Total Depth : 1833' Elevation : 881'

Producing Zone : Keener

Shot Hole Depth : 1784' - 1797' & 1816' - 1831'

Casing Depths : 10" 407' P

8 1/4" 1029' P Tubing Depth : 2" _____

6 5/8" 1711'

6 1/4" _____

5 3/16" _____

4 7/8" _____

Remarks : _____

Top keener 1775'

(-894)

(shot 4 times)

47-095-0567

Elev 881

H.No. 3733
WELL NO. 5

LEASE NO. 725 ACRES 75 FARM NAME Wm. Ferrell

N. 6 S. E. W. 13 Location Made 3-30-42 Purchased From H.C.B.R.
Civil District Ellsworth Rig Completed Date Purchased 3-1-43
County Tyler Dr'g Commenced 5-26-42 Sold To
State W.Va. Dr'g Completed 6-30-42 Date Sold
GAS OIL Rights Owned By Dr'g Contractor Creighton & Petty Date Abandoned

FORMATION				CASING RECORD					
Kind	Top	Bottom	Steel Line Meas.	Tests	Size	Bottom Casing Steel Line	Put in Well Tally Meas.	Pulled Tally Meas.	Cemented
ELEVATION	881				10"		408	408	Date
Conductor	0	8			8 1/2"		1030	1030	Size Csg.
Sand	425	475			6-5/8"		1711		Top "
Water	435								Bot. "
Blue Shale	750	775							
Red Rock	775	785							
Blue Shale	785	880							
Red Rock	880	890							
Sand	890	930							
Slate	930	935							
Pink Rock	935	940							
Slate	940	955							
Sand	955	970							
Slate Hard	970	1000							
Slate	1000	1040							
Slate	1040	1075							
Sand Hard	1075	1110							
Slate	1110	1120							
Lime	1120	1140							
Slate	1140	1220							
Sand	1220	1235							
Slate	1235	1270							
Sand	1270	1312							
Slate	1312	1320							
Sand	1320	1490							
Slate	1490	1560							
Sand Hard	1560	1600							
Slate	1600	1675							
Lime	1675	1697							
Slate	1697	1707							
Lime	1707	1775							
Keener (Some Lime)	1775	1781							
White Sand (Hard)	1781	1784							
Keener (Soft Muddy)	1784	1797							
Sand (Hard Broken)	1797	1799							
Sand (Hard)	1799	1816 1/2							
Oil	1816 1/2	1829 1/2							
Sand (Hard)	1829 1/2	1832 1/2							
Gas									

11/10 3/8 P.M.

Total Depth 1833 1/2

Initial Prod. Sand * At Completion * 30 Days After *

Oil Keener 15-Bbl. Day

Gas

APPROVED

Supt.

TESTS, REPORTS AND REMARKS ON REVERSE SIDE



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

Enter Permit #: 0567

Location Production Plugging

Owner/Completion Stratigraphy Sample

Pay/Show/Water Logs Btm Hole Loc

[Get Data] [Reset]

- [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 = 0567

Report Time: Thursday, February 14, 2013 4:03:34 PM

Location Information: [View Map](#)

API	COUNTY	PERMIT	TAX_DISTRICT	QUAD_75	QUAD_15	LAT_DD	LON_DD	UTME	UTMN
4709500567	Tyler	567	Ellsworth	Porters Falls	New Martinsville	39.522458	-80.85282	512650.3	4374767.3

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
4709500567	6/30/1942	Original Loc	Completed	William Ferrell 5						Pennzoil Company		
4709500567	3/31/1955	Worked Over	unknown							unknown		

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
4709500567	6/30/1942	5/26/1942	881	Ground Level	Kdwl-Elk Fk Ar	Price Fm & equivs	Keener	Development Well	Development Well	Oil and Gas	Cable Tool	unknown	1833		1833	0	0
4709500567	3/31/1955	-/-			Kdwl-Elk Fk Ar	Price Fm & equivs	Keener	unclassified	unclassified	Oil	unknown	unknown	1833			0	0

Pay/Show/Water Information:

API	CMP_DT	ACTIVITY	PRODUCT	SECTION	DEPTH_TOP	FM_TOP	DEPTH_BOT	FM_BOT	G_BEF	G_AFT	O_BEF	O_AFT	WATER_QNTY
4709500567	6/30/1942	Pay	Oil	Vertical	1816	Keener	1829	Keener	15	0			
4709500567	3/31/1955	Pay	Oil	Vertical	1816	Keener	1830	Keener	0	0			

Production Gas Information:

API	OPERATOR	PRD_YEAR	ANN_GAS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DCM
4709500567	Pennzoil Company	1981	0	0	0	0	0	0	0	0	0	0	0	0	0
4709500567	Pennzoil Company	1982	0	0	0	0	0	0	0	0	0	0	0	0	0
4709500567	Pennzoil Company	1983	0	0	0	0	0	0	0	0	0	0	0	0	0
4709500567	Triad Resources, Inc.	2001	5	0	0	0	0	0	5	0	0	0	0	0	0
4709500567	Triad Resources, Inc.	2003	10	10	0	0	0	0	0	0	0	0	0	0	0
4709500567	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
4709500567	Pennzoil Company	1981	585	0	0	0	0	0	0	0	0	0	0	0	0
4709500567	Pennzoil Company	1982	135	0	0	0	0	0	0	0	0	0	0	0	0
4709500567	Pennzoil Company	1983	56	0	0	0	0	0	0	0	0	0	0	0	0
4709500567	Triad Resources, Inc.	2001	0	0	0	0	0	0	0	0	0	0	0	0	0
4709500567	Triad Resources, Inc.	2003	0	0	0	0	0	0	0	0	0	0	0	0	0
4709500567	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

9500567P

WW-4A
Revised 6-07

1) Date: March 15, 2015
2) Operator's Well Number
Wm. Ferrell # 5

3) API Well No.: 47 - 095 - 0567

**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:

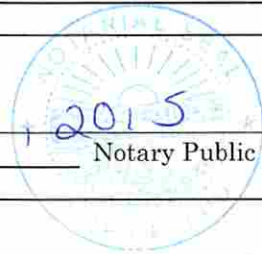
- (1) The application to Plug and Abandon a Well on Form WW-4B, which sets out the parties involved in the work and describes the well its and the plugging work order; and
- (2) The plat (surveyor's map) showing the well location on Form WW-6.

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 1st day of April, 2015
Elizabeth R. Tebay Notary Public
 My Commission Expires 2-29-16



ELIZABETH R. TEBAY
 NOTARY PUBLIC
 In and For The State of Ohio
 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 depprivacyofficer@wv.gov.

Office of Oil & Gas
 Approved
 06/26/2015

9500567P

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*CR 001079
1000000000*

7014 0150 0000 9042 0620

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PS Form 3800, August 2006 See Reverse for Instructions

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

(1 well)

William Ferrell ; # 5 P# 47-095-00567

Received
Office of Oil & Gas
APR 23 2015

7014 0150 0000 9042 0620

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PS Form 3800, August 2006 See Reverse for Instructions

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

06/26/2015

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 881' (GPS 880') County Tyler District Ellsworth

Description of anticipated Pit Waste: saltwater, oil, freshwater

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

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 _____)

*DCW
4-2-2015*

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 *[Handwritten Signature]*

Company Official (Typed Name) Rocky Roberts

Company Official Title Senior VP Appalachian Operations

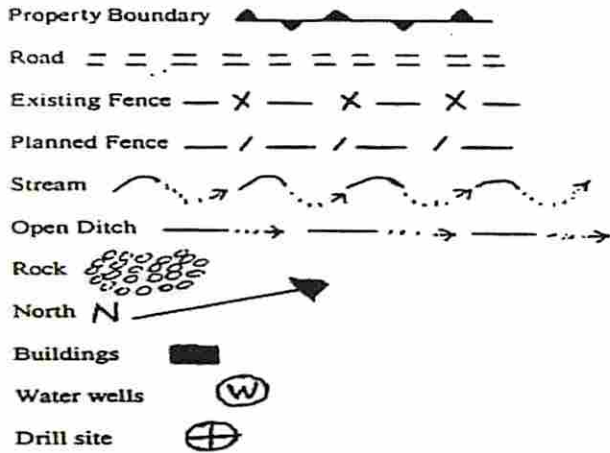
Subscribed and sworn before me this 1st day of April, 20 15

[Handwritten Signature: Elizabeth R. Sebay]

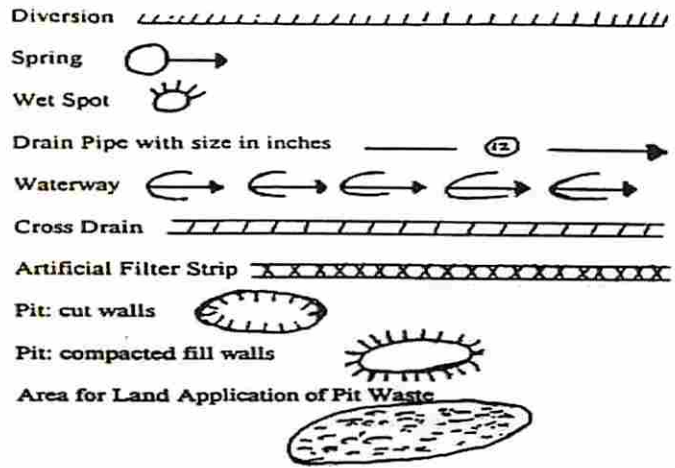


Notary Public
ELIZABETH R. TERRY
NOTARY PUBLIC
In and for The State of Ohio
My Commission Expires
2-29-16

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 lbs/acre	Area II 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.

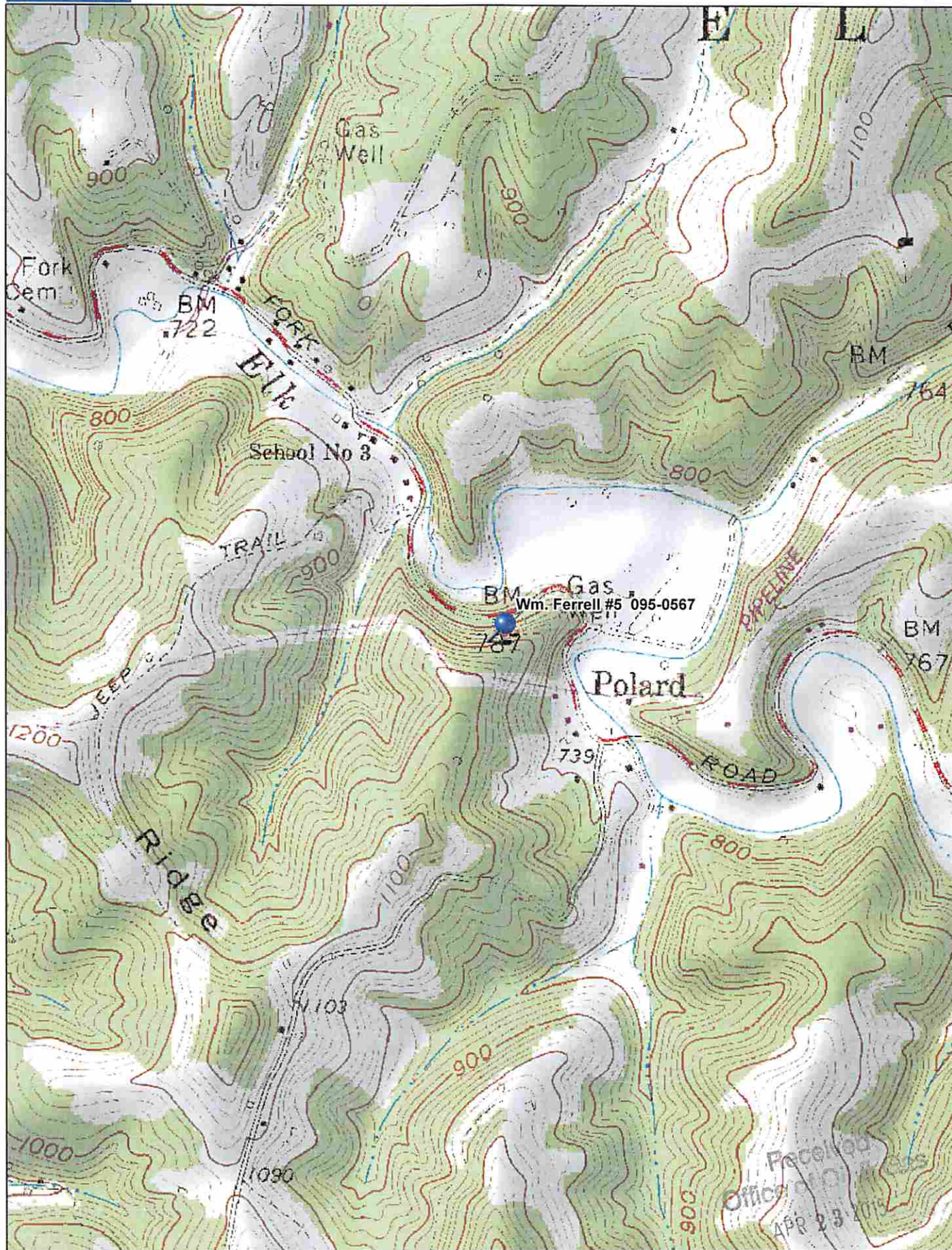
Photocopied section of involved 7.5' topographic sheet.

Plan Approved by: Douglas Naylor

Comments: install FRS to WU Dep regulations

Title: Oil & Gas Inspector Date: 4-2-2015

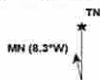
Field Reviewed? () Yes (/) No



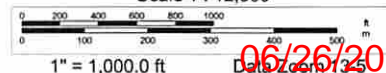
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Scale 1 : 12,000



06/26/2015

06/26/2015

WW-7
8-30-06



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

API: 47-09500567 WELL NO.: 5

FARM NAME: Wm. Ferrell

RESPONSIBLE PARTY NAME: Triad Hunter, LLC

COUNTY: Tyler DISTRICT: Ellsworth

QUADRANGLE: Porters Falls

SURFACE OWNER: Charles E. and Laura L. Friend

ROYALTY OWNER: Shiben Estates, Inc.

UTM GPS NORTHING: 4374909.7407603

UTM GPS EASTING: 512776.43412850 GPS ELEVATION: 880'

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 Smeltzer
Signature

Geologist
Title

4/15/2013
Date
Received
Office of Oil & Gas
APR 23 2015

I
NOW

Operator: TRIAD HUNTER, LLC
API: 9500567
WELL No: 5
Reviewed by: gwm Date: 6/22/15
5 Day End of Comment: 04/28/15

* Well is on an Agreed Order *

CHECKLIST FOR FILING A PERMIT

Plugging

CK# 001079
\$10000

- 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)