



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

January 06, 2014

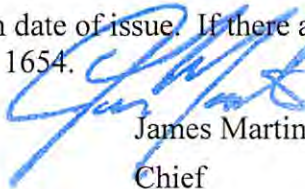
WELL WORK PLUGGING PERMIT

Plugging

This permit, API Well Number: 47-9500566, 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: WM. FERRELL #4
Farm Name: FRIEND, CHARLES E. & LAURA
API Well Number: 47-9500566
Permit Type: Plugging
Date Issued: 01/06/2014

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.

9500566P

WW-4B
Rev. 2/01

- 1) Date September 19, 2013
- 2) Operator's
Well No. Wm. Ferrell # 4
- 3) API Well No. 47-095 - 0566

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 885' Watershed Elk Fork
District Ellsworth 02 County Tyler 95 Quadrangle Porters Falls 654

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 Joe Taylor Name _____
Address 497 Claylick Road Address _____
Ripley, WV 25271

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

(SEE ATTACHMENT)

RECEIVED
Office of Oil and Gas
OCT 30 2013

WV Department of
Environmental Protection

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

Work order approved by inspector  Date 10-2-13

01/10/2014

PLUGGING PROCEEDURE

ELK FORK FIELD

Ellsworth District, Tyler County

1. MIRU service rig, dig flow back pit, and remove pumping unit if necessary.
2. Pull tubing and rods OOH and clean hole to total depth.
3. Run 2 3/8" 8rnd tubing to the base of the shot hole or pay zone, *OR TOP OF PACKER,*
4. **Mix/Pump 75 sacks Class A Cement, ¼ lb. flocele/sk., 1% CaCl**, through the tubing into the shot hole (**Plug # 1 – 88.5 cu.ft. .**).
5. Pull tubing up to 1,000 feet and shut down for the day.
6. Lower tubing and tag the top of the cement plug. Mix additional cement to cover the shot hole if necessary.
7. Pull casing (~~5 3/16"~~, ~~6 1/4"~~, 6 5/8") OOH, or cut-off / shoot apart casing around 500 feet above the Keener Formation or pay zone and pull it OOH.
8. RIH with 2 3/8" 8rnd tubing to the top of the cut-off casing or 500 feet above the Keener Fm./pay-zone.
9. **Mix/Pump 60 sacks Class A Cement, ¼ lb. flocele/sk., 1% CaCl** through the tubing into the annulus (**Plug # 2 – 68 cu.ft., 200' lin. ft. .**).
10. Pull tubing up-hole to set surface hole plug as follows: (Assume Hole Size = 10")

(Elevation)	(Plug Depth)	(Cement Required)	(Cubic Feet)
Below 800 feet	100'	50 sacks	54.5
<i>★</i> 800' to 900'	<u>150'</u>	<u>70 sacks</u>	<u>82.0</u>
900' to 1,000'	200'	95 sacks	109.0
Over 1,000 feet	250'	116 sacks	136.5
11. **Mix/Pump (Plug # 3) the surface hole plug with Class A Cement, ¼ lb. flocele/sk., 1% CaCl**, through the tubing until cement is circulated to surface. Pull tubing OOH.
12. **Top load hole with Class A Cement** and install monument casing so that it is 3' above ground level.
13. Weld identification plate on monument pipe and fill monument pipe with Class A Cement.
14. RDMO service rig and surface equipment.
15. Reclaim well site and lease road.

Note! Mix / Pump gel spacers between all cement plugs.

★ 2a. RELEASE PACKER AND PULL 5 3/16" OUT OF HOLE OR SHOOT CUT 5 3/16" ABOVE PACKER AND PULL 5 3/16" OUT OF HOLE.

[Handwritten signature]
10-2-D

ELEVATION PLUG FROM 935' - 835' SET WITH CLASS A CEMENT WITH NO MORE THAN 3% CaCl₂ AND NOOTHER ADDITIVES.

[Handwritten initials]

(Well Information)

ELK FORK FIELDPermit Number: 47-095-0566 Well Name: Wm. Ferrell #4District: Ellsworth County: TylerDate Drilled: N/A Total Depth: 1811' Elevation: 885'Producing Zone: Keener Shot Hole Depth: 1797' - 1801'

Casing Depths: 10" _____ 8 1/4" _____ Tubing Depth: 2" _____

6 5/8" 1590' 6 1/4" _____5 3/16" 1609 4 7/8" _____Remarks: 5 3/16" seton H.W. PackerTop Keener 1787' Oil @ 1795'(-902)Shot 1 time
(unknown)

9500566 P

47-095-0566

LEASE NO. 725		ACRES 75	FARM NAME Wm. Ferrell	H.No. 3621	WELL NO. 4
N. 6 S. E. W. 13	Location Made	Purchased From H.C.&R.		Date Purchased 3-1-43	
Civil District Ellsworth	Rig Completed	Sold To		Date Sold	
County Tyler	Dr'g Commenced	Date Abandoned			
State W.Va.	Dr'g Completed				
GAS RIGHTS OWNED BY	Dr'g Contractor				

FORMATION					CASING RECORD				
Kind	Top	Bottom	Steel Line Meas.	Tests	Size	Bottom Casing Steel Line	Put in Well Tally Meas.	Pulled Tally Meas.	Cemented
Keener Oil	1787	1795			6-5/8" 53/16	1593	1590 1609		Date Size Csg. Top " Bot. "
Oil	1800								

PACKERS AND SHOES			
Kind	Size	Depth Set	Date Set
2 7/8" x 3 1/2" No. 20			

TORPEDO RECORD					
Date	No. Qts.	Size Shell	Top Shot	Bottom	Results
7-19-56	20	3/2" No. 11			

DRILLING DEEPER				
Commenced	Completed	Original Depth	Final Depth	Contractor

ABANDONMENT RECORD					
Filled With	From	To	Size	PLUG Kind	Depth

Initial Prod.	Sand	★ At Completion	★ 30 Days After	★
Oil	Keener			
Gas				

APPROVED _____ Supt.

TESTS, REPORTS AND REMARKS ON REVERSE SIDE

★ Oil in Barrels
★ Gas in M. Cu. Ft.



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

Enter Permit #: 0566

Location Production Plugging

Owner/Completion Stratigraphy Sample

Pay/ShowWater Logs Elm Hole Loc

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

WV Geological & Economic Survey:

Well: County = 95 Permit = 0566

Report Time: Thursday, February 14, 2013 4:03:13 PM

Location Information: [View Map](#)

API	COUNTY	PERMIT	TAX_DISTRICT	QUAD_75	QUAD_15	LAT_DD	LON_DD	UTME	UTMN
4709500566	Tyler	566	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
4709500566	-/-		Original Loc Completed	William Ferrell 4						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
4709500566	-/-	-/-			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
4709500566	Pennzoil Company	1981	0	0	0	0	0	0	0	0	0	0	0	0	0
4709500566	Pennzoil Company	1982	0	0	0	0	0	0	0	0	0	0	0	0	0
4709500566	Pennzoil Company	1983	0	0	0	0	0	0	0	0	0	0	0	0	0
4709500566	Triad Resources, Inc.	2001	5	0	0	0	0	0	5	0	0	0	0	0	0
4709500566	Triad Resources, Inc.	2003	10	10	0	0	0	0	0	0	0	0	0	0	0
4709500566	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
4709500566	Pennzoil Company	1981	585	0	0	0	0	0	0	0	0	0	0	0	0
4709500566	Pennzoil Company	1982	135	0	0	0	0	0	0	0	0	0	0	0	0
4709500566	Pennzoil Company	1983	56	0	0	0	0	0	0	0	0	0	0	0	0
4709500566	Triad Resources, Inc.	2001	0	0	0	0	0	0	0	0	0	0	0	0	0
4709500566	Triad Resources, Inc.	2003	0	0	0	0	0	0	0	0	0	0	0	0	0
4709500566	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

RECEIVED
Office of Oil and Gas
OCT 30 2013
WV Department of
Environmental Protection

CK 27699
10000

9500 566 P

WW-4A
Revised 6-07

1) Date: September 19, 2013
2) Operator's Well Number
Wm. Ferrell # 4

3) API Well No.: 47 - 095 - 0566

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>RR 1 Box 192A</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>Joe Taylor</u>	(c) Coal Lessee with Declaration
Address <u>497 Claylick Road</u>	Name <u>N/A</u>
<u>Ripley, WV 25271</u>	Address _____
Telephone <u>(304) 380-7469</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.

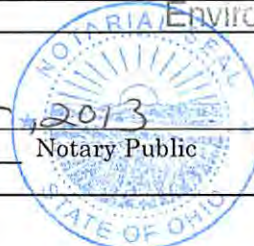
Take notice that under Chapter 22-6 of the West Virginia Code, the undersigned well operator proposes to file or has filed this Notice and Application and accompanying documents for a permit to plug and abandon a well with the Chief of the Office of Oil and Gas, West Virginia Department of Environmental 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.

RECEIVED

Office of Oil and Gas
 Well Operator Triad Hunter LLC
 By: Rocky Roberts *Rocky Roberts*
 Its: Senior VP Appalachian Operations
 Address 125 Putnam Street
Marietta, Ohio 45750
 Telephone (740) 374-2940

OCT 20 2013
 WV Department of Environmental Protection

Subscribed and sworn before me this 24th day of September, 2013
Elizabeth R. Tebay
 My Commission Expires 02-29-16



ELIZABETH R. TEBAY
 NOTARY PUBLIC
 In and For The State of Ohio
 My Commission Expires

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.

01/10/2014

9500566P

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

MARIETTA, GA 30067-5000
 OCT 8 2013
 Postmark Here
 USPS

Sent To: Charles E. and Laura L. Friend
 Street, Apt. No., or PO Box No.: RR 1 Box 192A
 City, State, ZIP+4: Middlebourne WV 26149

PS Form 3800, August 2006 See Reverse for Instructions

✓

9500566P

WW-9
Rev. 5/08

Page 1 of 2
API Number 47 - 095 - 0566
Operator's Well No. Wm. Ferrell # 4

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 _____

Watershed Elk Fork Quadrangle Porters Falls

Elevation 885' (GPS 899') County Tyler District Ellsworth

Description of anticipated Pit Waste: saltwater, oil, gel, and freshwater

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

Proposed Disposal Method For Treated Pit Wastes:

- Land Application
- Underground Injection (UIC Permit Number UIC # 2D0855151)
- 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

RECEIVED
Office of Oil and Gas

OCT 30 2013

WV Department of
Environmental Protection

Subscribed and sworn before me this 24th day of September, 2013

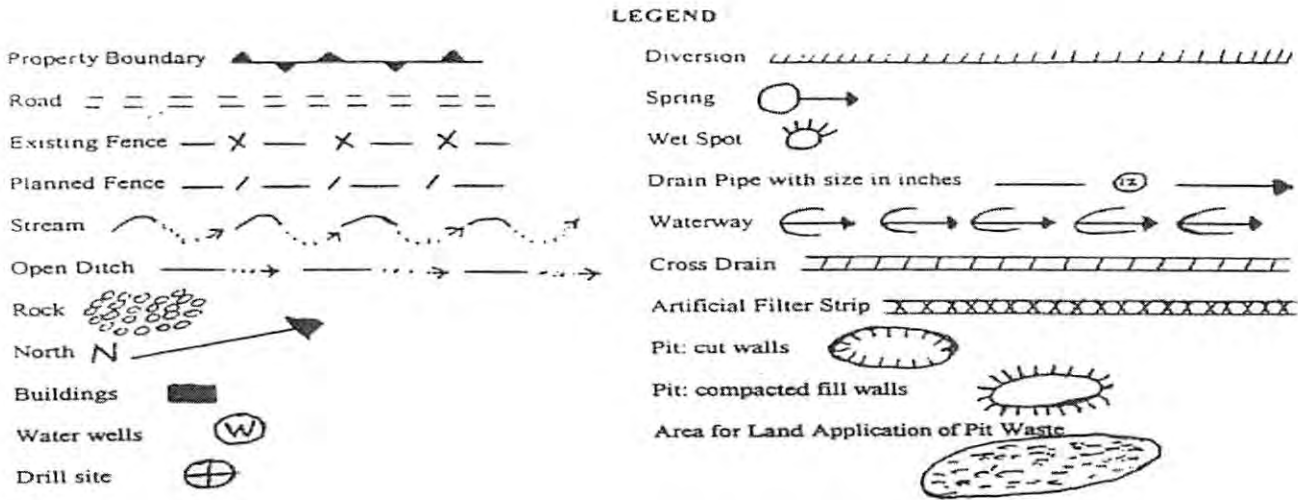
Elizabeth R. Tebay



Notary Public
ELIZABETH R. TEBAY
NOTARY PUBLIC
2-29-16

My commission expires _____

01/10/2014



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) 600 lbs/acre (500 lbs minimum)

Mulch 90 - 100 bales / acre Tons/acre

Seed Mixtures

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

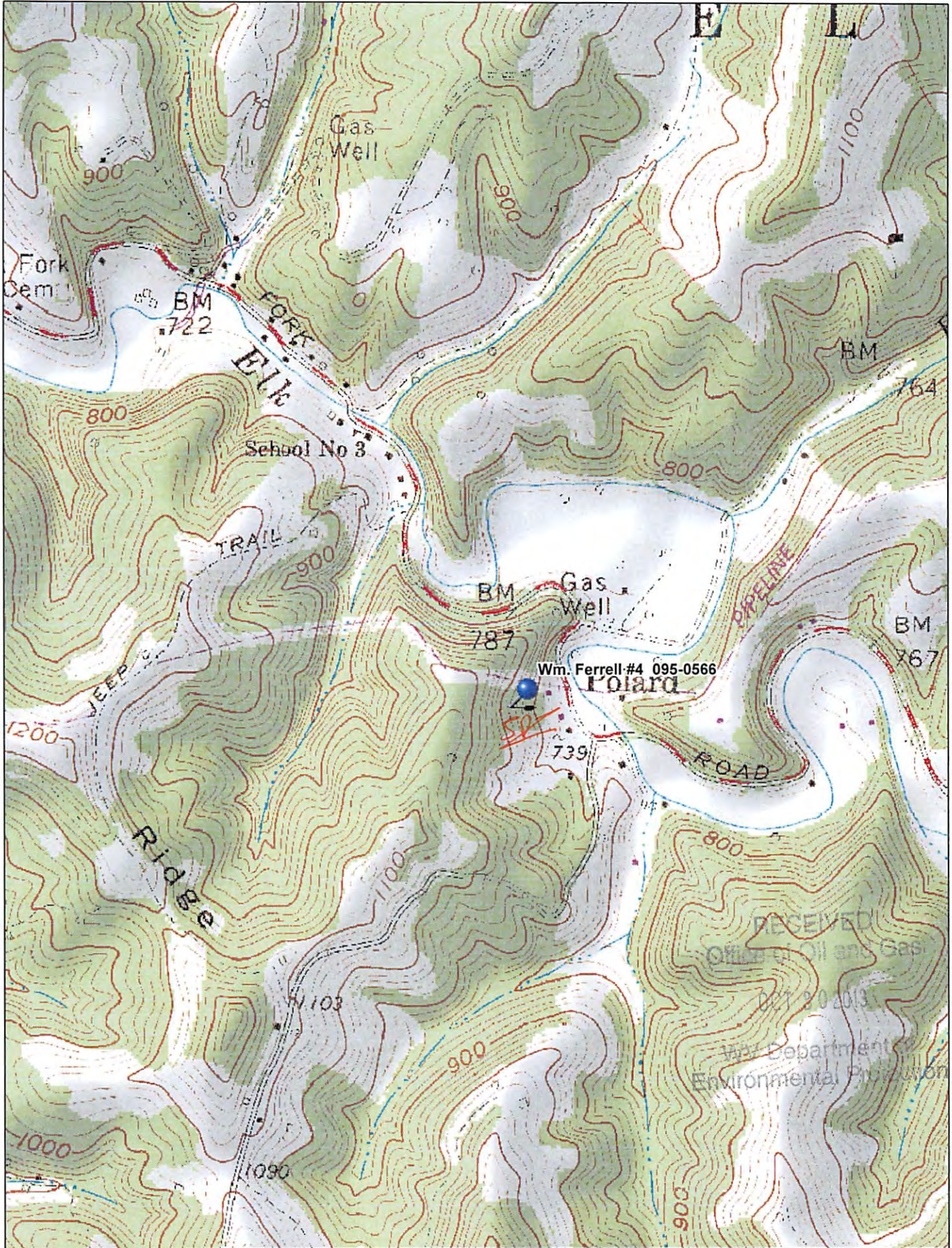
Plan Approved by: [Signature]

Comments: _____

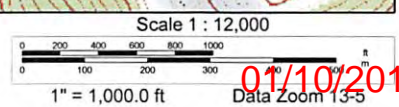
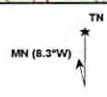
Title: Inspector Date: 10-2-13

Field Reviewed? (X) Yes () No

9500566P



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 www.delorme.com



01/10/2014

WW-7
8-30-06



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

API: 47-095-0566 WELL NO.: 4

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: 4374751.1487065

UTM GPS EASTING: 512843.73838727 GPS ELEVATION: 899'

JD

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

4/15/2013
Date