



---

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

December 05, 2013

**WELL WORK PLUGGING PERMIT**

**Plugging**

This permit, API Well Number: 47-9500531, 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: B.F. HAWKINS #4  
Farm Name: MARTIN, RONALD D. & SANDR/  
**API Well Number: 47-9500531**  
**Permit Type: Plugging**  
Date Issued: 12/05/2013

**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.

### 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 September 19, 2013  
2) Operator's  
Well No. B.F. Hawkins # 4 ( 100 ac. )  
3) API Well No. 47-095 - 0531

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 930' Watershed Elk Fork  
District Ellsworth 02 County Tyler 95 Quadrangle Porters Falls 554

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 Name Joe Taylor  
Address 497 Claylick Road  
Ripley, WV 25271  
9) Plugging Contractor Name \_\_\_\_\_  
Address \_\_\_\_\_

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 

RECEIVED  
Office of Oil and Gas  
OCT 20 2013  
Date 10-2-13  
WV Department of  
Environmental Protection

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.
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 ¼", 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
800' to 900'	150'	70 sacks	82.0
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.



10-2-13

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

47-095-0531

H.No. 1990

LEASE NO. 740 ACRES 100 FARM NAME B. F. Hawkins WELL NO. 4

N. 7 S. E. W. 13 Location Made Purchased From H.C.&R.  
 Civil District Ellsworth Rig Completed Date Purchased 3-1-43  
 County Tyler Dr'g Commenced 6-9-97 Sold To  
 State W.Va. Dr'g Completed 6-30-97 Date Sold  
 GAS RIGHTS OWNED BY Dr'g Contractor 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
					10"		151	71	Date
					8 1/2"		1105	1105	Size Csg.
					6-5/8"		1778		Top "
					5-3/16"		1755		Bot. "
					2" Tbg.		1861		

*885 tubsaa*

PACKERS AND SHOES			
Kind	Size	Depth Set	Date Set
Pkr.	6-5/8" x 5-3/16"		

TORPEDO RECORD						
Date	No. Qts.	Size Shell	Top Shot	Bottom	Results	
7-17-97	5	5'				
8-3-97	10	8'				
8-12-97	15	10'				
9-25-97	20	10'				
1-14-98	30	10'				
7-6-98	60	10'				
1-25-98	60	10'				
12-21-98	60	10'				

DRILLING DEEPER				
Commenced	Completed	Original Depth	Final Depth	Contractor

ABANDONMENT RECORD					
Filled With	From	To	PLUG		
			Size	Kind	Depth

Oil 1828  
Gas 1815  
1826

Total Depth 1871

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

Oil Keener  
Gas

APPROVED \_\_\_\_\_ Supt.

TESTS, REPORTS AND REMARKS ON REVERSE SIDE

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

(Well Information)

ELK FORK FIELD

Permit Number : 47-095-0531 Well Name : B. F. Hawkins #4 (100AC.)

District : Ellsworth County : Tyler

Date Drilled : June / 1897 Total Depth : 1871' Elevation : 930'

Producing Zone : Keener Shot Hole Depth : NO RECORD

Casing Depths : 10" 151' (Pulled 71') 8 1/4" 1105' P Tubing Depth : 2" 1861'

6 5/8" 1778' 6 1/4" \_\_\_\_\_

5 3/16" 1755' 4 7/8" \_\_\_\_\_

Remarks : 5 3/16" set on H.W. Packer

Pay Zone 1815' - 1828'

Gas @ 1815', Oil @ 1828' (shot 8 times)  
(-885)

RECEIVED  
Office of Oil and Gas

OCT 30 2013

WV Department of  
Environmental Protection

9500531P



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

Enter Permit #: 0531

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 = 0531

Report Time: Thursday, February 14, 2013 4:16:53 PM

Location Information: [View Map](#)

API	COUNTY	PERMIT	TAX_DISTRICT	QUAD_75	QUAD_15	LAT_DD	LON_DD	UTME	UTMN
4709500531	Tyler	531	Elleworth	Porters Falls	New Martinsville	39.532754	-80.854508	512503.4	4375909.7

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
4709500531	6/30/1897		Original Loc Completed	B F Hawkins 4						South Penn Oil (S. Penn Nat. Gas)		

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_BE
4709500531	6/30/1897	6/9/1897			Kdwl-Elk Fk Ar	Price Fm & equivs	Keener	Development Well	Development Well	Oil and Gas	unknown	Shot	1871		1871	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
4709500531	6/30/1897	Pay	Gas	Vertical			1815	Keener	0	0			
4709500531	6/30/1897	Pay	Oil	Vertical			1848	Keener	0	0			

Production Gas Information:

API	OPERATOR	PRD_YEAR	ANN_GAS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DCM
4709500531	Pennzoil Company	1981	0	0	0	0	0	0	0	0	0	0	0	0	0
4709500531	Pennzoil Company	1982	0	0	0	0	0	0	0	0	0	0	0	0	0
4709500531	Pennzoil Company	1983	0	0	0	0	0	0	0	0	0	0	0	0	0
4709500531	Triad Resources, Inc.	2001	5	0	0	0	0	0	5	0	0	0	0	0	0
4709500531	Triad Resources, Inc.	2003	0	0	0	0	0	0	0	0	0	0	0	0	0
4709500531	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
4709500531	Pennzoil Company	1981	198	0	0	0	0	0	0	0	0	0	0	0	0
4709500531	Pennzoil Company	1982	159	0	0	0	0	0	0	0	0	0	0	0	0
4709500531	Pennzoil Company	1983	164	0	0	0	0	0	0	0	0	0	0	0	0
4709500531	Triad Resources, Inc.	2001	0	0	0	0	0	0	0	0	0	0	0	0	0
4709500531	Triad Resources, Inc.	2003	0	0	0	0	0	0	0	0	0	0	0	0	0
4709500531	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  
100 00

9500531P

WW-4A  
Revised 6-07

1) Date: September 19, 2013  
2) Operator's Well Number  
B.F. Hawkins # 4 ( 100 ac. )

3) API Well No.: 47 - 095 - 0531

**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>Ronald D. and Sandra S. Martin</u>	Name <u>N/A</u>
Address <u>RR 5 Box 343 Chase Lane</u>	Address _____
<u>Moundsville, WV 26041</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.

Well Operator Triad Hunter LLC

By: Rocky Roberts

Its: Senior VP Appalachian Operations

Address 125 Putnam Street

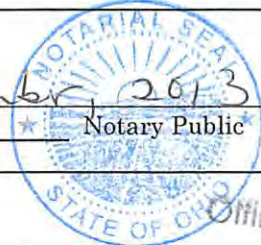
Marietta, Ohio 45750

Telephone ( 740 ) 374-2940

Subscribed and sworn before me this 24<sup>th</sup> day of September, 2013

Elizabeth R. Tebay  
Notary Public

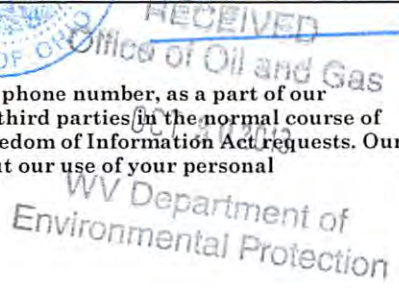
My Commission Expires 2-29-16



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

**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).





9500531A

WW-9  
Rev. 5/08

Page 1 of 2  
API Number 47 - 095 - 0531  
Operator's Well No. B.F. Hawkins # 4 ( 100 ac. )

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 930' ( GPS 923' ) 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.

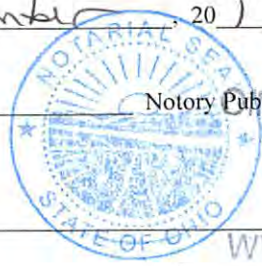
Company Official Signature [Signature]

Company Official (Typed Name) Rocky Roberts

Company Official Title Senior VP Appalachian Operations

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

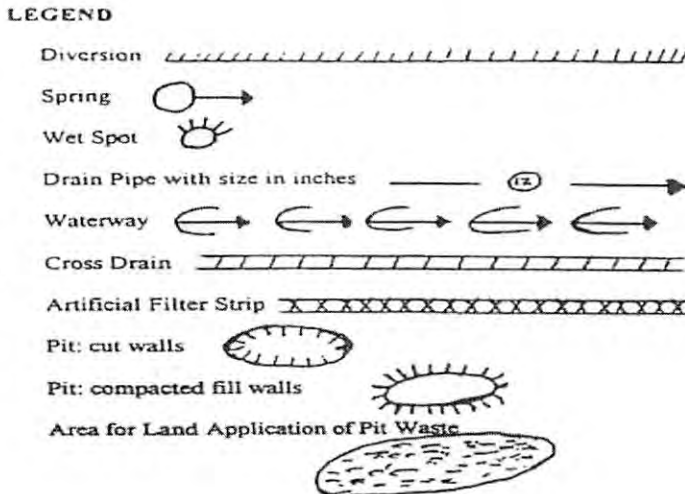
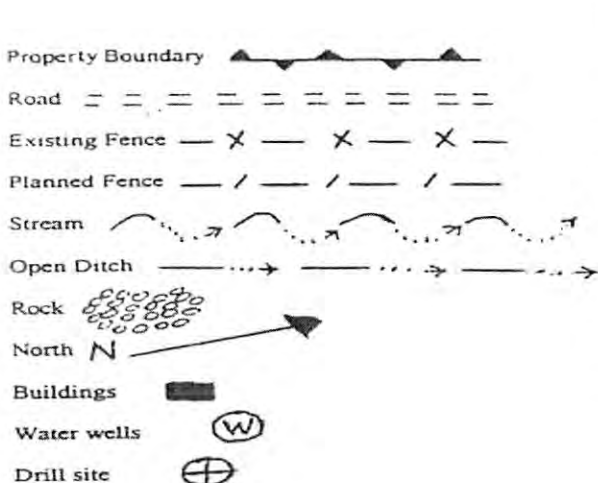
Elizabeth R. Seby



RECEIVED  
OFFICE OF OIL AND GAS  
NOTARY PUBLIC  
In and For The State of Ohio  
My Commission Expires  
2-29-16

My commission expires 2-29-16

WV Department of  
Environmental Protection



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

Seed Type	Area I lbs/acre	Seed Type	Area II 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.

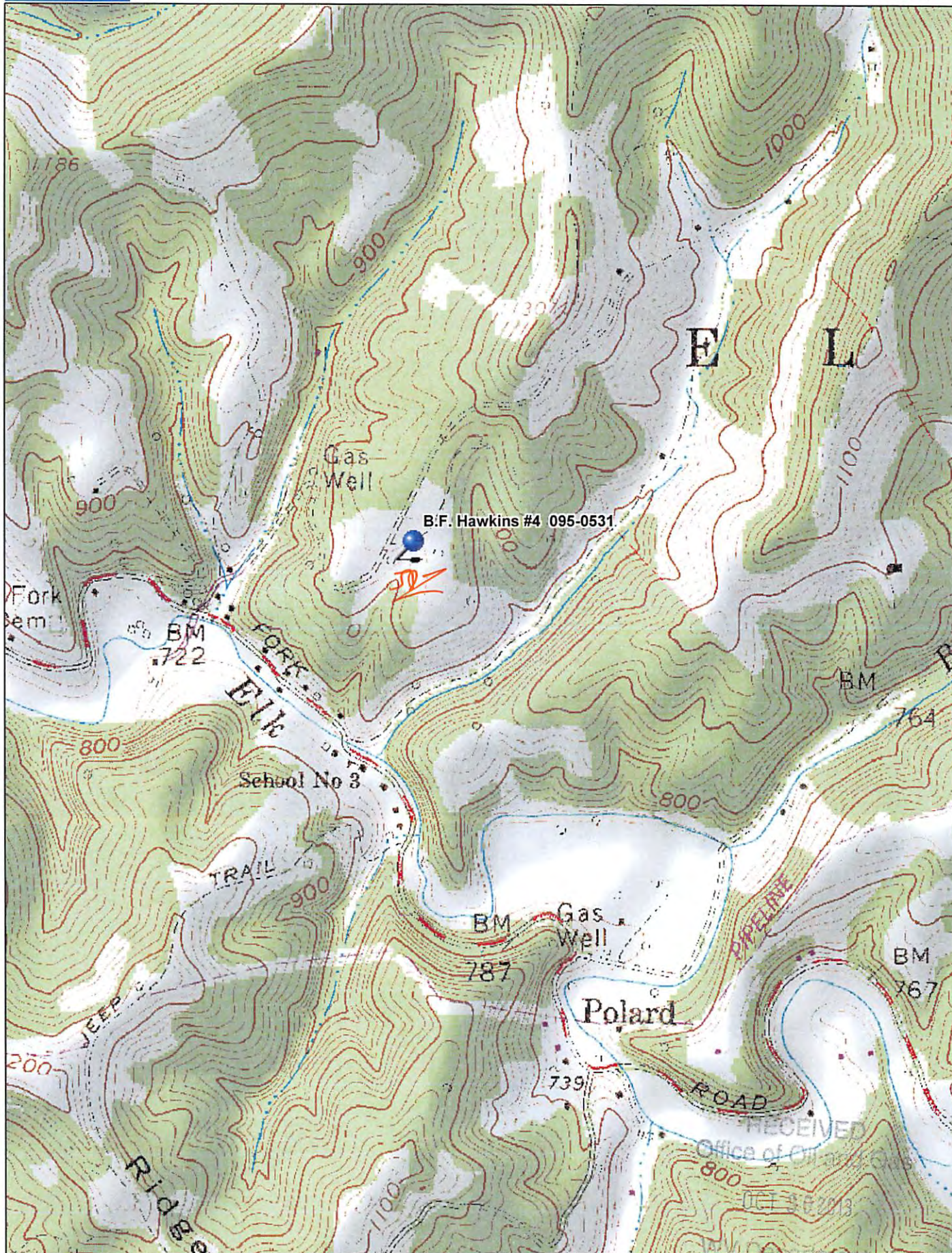
Plan Approved by: [Signature]  
 Comments: \_\_\_\_\_

Title: Inspector Date: 10-2-13

Field Reviewed? ( X ) Yes ( ) No

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

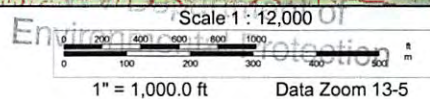
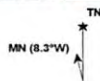
9500531P



Data use subject to license.

© DeLorme. XMap® 7.

www.delorme.com



950053 P

WW-7  
8-30-06



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

API: 47-095-0531 WELL NO.: 4

FARM NAME: B.F. Hawkins

RESPONSIBLE PARTY NAME: Triad Hunter, LLC

COUNTY: Tyler DISTRICT: Ellsworth

QUADRANGLE: Porters Falls

SURFACE OWNER: Ronald D. and Sandra S. Martin

ROYALTY OWNER: Union National Bank (Trustees)  
S. Austin Smith & C. Burke Morris

UTM GPS NORTHING: 4375858.3246283

UTM GPS EASTING: 512588.37906170 GPS ELEVATION: 923'

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:

*SR*

- Datum: NAD 1983, Zone: 17 North, Coordinate Units: meters, Altitude: height above mean sea level (MSL) – meters.
- Accuracy to Datum – 3.05 meters
- Data Collection Method:

Survey grade GPS  : Post Processed Differential

Real-Time Differential

Mapping Grade GPS  : Post Processed Differential

Real-Time Differential

- 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.

*Bar Smith*  
Signature

Geologist  
Title

4/15/2013  
Date

RECEIVED  
Office of Oil and Gas  
WV Department of Environmental Protection