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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

December 27, 2013

**WELL WORK PLUGGING PERMIT**

**Plugging**

This permit, API Well Number: 47-9500528, 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 #10  
Farm Name: MARTIN, RONALD D. & SANDRA  
**API Well Number: 47-9500528**  
**Permit Type: Plugging**  
Date Issued: 12/27/2013

**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

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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.

1) Date September 19, 2013  
2) Operator's  
Well No. B.F. Hawkins # 10  
3) API Well No. 47-095 - 0528

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 905' (GPS 937') 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 26184

8) Oil and Gas Inspector to be notified 9) Plugging Contractor  
Name Joe Taylor Name N/A  
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 )

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

Work order approved by inspector \_\_\_\_\_



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09 30 2013

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Environmental Protection

7" 1732  
5 1/2" 1738'

TD 1803

ADDENDUM TO 9500528P

ELRV. 905

FROM YOUR #2.

3. REMOVE 5 1/2" CASING, WHICH IS PROBABLY ON A PACKER, IF CANNOT PULL, CUT OFF OR SHOOT ABOVE PACKER AND POOH.
4. MIX/PUMP 75 SACKS CLASS A CEMENT, 1/4 lb. FLOCCER/SK., 1% CaCl<sub>2</sub>, THROUGH TUBING
5. PULL TUBING UP TO 1000 FEET AND SHUT DOWN FOR THE DAY.
6. TIEH AND TAG CEMENT TOP. MIX ADDITIONAL CEMENT TO COVER THE SHOT HOLE IF NECESSARY.
7. CUT 7" 500' ABOVE KEENER, APPROXIMATELY 1330' AND POOH.
8. SET 100' PLUG OF CLASS A CEMENT FROM 1380' TO 1280'.
9. SET 100' CLASS A CEMENT PLUG ACROSS ELEVATION FROM 955' TO 855'.
10. SET 200' CLASS A CEMENT PLUG FROM 200' TO SURFACE.
11. TOP LOAD HOLE WITH CLASS A CEMENT AND INSTALL MONUMENT CASING SO THAT IS 3' ABOVE GROUND LEVEL.
12. WELD I.D. PLATE ON MONUMENT PIPE AND FILL MONUMENT PIPE WITH CLASS A CEMENT.
13. REMOVE SERVICE RIG AND SURFACE EQUIPMENT
14. RECLAIM WELL SITE AND LEASE ROAD.

NOTE! MIX/PUMP GEL SPACERS BETWEEN ALL CEMENT PLUGS

OK  
JANAM

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
<b>900' to 1,000'</b>	<b>200'</b>	<b>95 sacks</b>	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.

SEE  
ADDENDUM

*[Handwritten Signature]*  
10-2-13

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9500528P

(Well Information)

ELK FORK FIELD

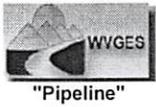
Permit Number: 47-095-0528 Well Name: B.F. Hawkins #10  
 District: Ellsworth County: Tyler  
 Date Drilled: ---/1931 Total Depth: 1863' Elevation: 905'  
 Producing Zone: Keener Shot Hole Depth: None (Natural open-hole)  
 Casing Depths: 10" \_\_\_\_\_ 8 1/4" \_\_\_\_\_ Tubing Depth: 2" \_\_\_\_\_  
                   6 5/8" \_\_\_\_\_ 6 1/4" \_\_\_\_\_  
                   5 3/16" \_\_\_\_\_ 4 7/8" \_\_\_\_\_

Remarks: \_\_\_\_\_

Pay Zone 1843'-1850'

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9500528A



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

Enter Permit #: 0528

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 = 0528

Report Time: Thursday, February 14, 2013 4:13:53 PM

Location Information: [View Map](#)

API	COUNTY	PERMIT	TAX_DISTRICT	QUAD_75	QUAD_15	LAT_DD	LON_DD	UTME	UTMN
4709500528	Tyler	528	Ellsworth	Porters Falls	New Martinsville	39.532754	-80.849264	512954	4375910.4

(B.F. Hawkins #10)

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
4709500528	-/-/1931		Original Loc	Completed	B F Hawkins	10	3614			South Penn Oil (S. Penn Nat. Gas)		
4709500528	-/-/		Worked Over	Permitted	Stanley LeMasters	10				B F Hawkins Smokerise Producing Co		

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
4709500528	-/-/	-/-/	905	Ground Level	Kdwl-Elk Fk Ar	Keener	Keener	Development Well	Development Well	Oil w/ Gas Show	unknown	Nat/Open H	1863		1863				0
4709500528	-/-/	-/-/	905	Ground Level	Kdwl-Elk Fk Ar					Water Injection									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
4709500528	-/-/1931	Show	Gas	Vertical				1843	Keener	0	0		
4709500528	-/-/1931	Pay	Oil	Vertical			1843	Keener	1850	Keener	0	0	

Production Gas Information:

API	OPERATOR	PRD_YEAR	ANN_GAS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DCM
4709500528	Pennzoil Company	1981	0	0	0	0	0	0	0	0	0	0	0	0	0
4709500528	Pennzoil Company	1982	0	0	0	0	0	0	0	0	0	0	0	0	0
4709500528	Pennzoil Company	1983	0	0	0	0	0	0	0	0	0	0	0	0	0
4709500528	Gedco Oil & Gas Joint Venture	1999	6	0	1	0	0	4	0	0	1	0	0	0	0
4709500528	Triad Resources, Inc.	2000	11	0	0	0	0	8	0	0	0	0	0	0	3
4709500528	Triad Resources, Inc.	2001	5	0	0	0	0	0	5	0	0	0	0	0	0
4709500528	Triad Resources, Inc.	2002	0	0	0	0	0	0	0	0	0	0	0	0	0
4709500528	Triad Resources, Inc.	2003	0	0	0	0	0	0	0	0	0	0	0	0	0
4709500528	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
4709500528	Pennzoil Company	1981	0	0	0	0	0	0	0	0	0	0	0	0	0
4709500528	Pennzoil Company	1982	26	0	0	0	0	0	0	0	0	0	0	0	0
4709500528	Pennzoil Company	1983	5	0	0	0	0	0	0	0	0	0	0	0	0
4709500528	Gedco Oil & Gas Joint Venture	1999	0	0	0	0	0	0	0	0	0	0	0	0	0
4709500528	Triad Resources, Inc.	2000	0	0	0	0	0	0	0	0	0	0	0	0	0
4709500528	Triad Resources, Inc.	2001	0	0	0	0	0	0	0	0	0	0	0	0	0
4709500528	Triad Resources, Inc.	2002	12	1	1	1	1	1	1	1	1	1	1	1	1
4709500528	Triad Resources, Inc.	2003	0	0	0	0	0	0	0	0	0	0	0	0	0
4709500528	Triad Resources, Inc.	2004	0	0	0	0	0	0	0	0	0	0	0	0	0

Stratigraphy Information:

API	SUFFIX	FM	FM_QUALITY	DEPTH_TOP	DEPTH_QUALITY	THICKNESS	THICKNESS_QUALITY	ELEV	DATUM
4709500528	Original Loc	Keener	Well Record	1830	Reasonable	0	Reasonable	905	Ground Level

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

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DIVISION OF OIL & GAS  
DEPARTMENT OF ENERGY

State of West Virginia  
DEPARTMENT OF ENERGY  
Oil and Gas Division

Date 9/10/69  
Operator's Well No. 10  
Farm B. F. HAWKINS  
API No. 47-075-0528

WELL OPERATOR'S REPORT  
OF  
DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

WELL TYPE: Oil    / Gas    / Liquid Injection X / Waste Disposal     
(If "Gas," Production    / Underground Storage    / Deep    / Shallow   )

LOCATION: Elevation: 832 Watershed ELK FORK  
District: CLINTON County Tyler Quadrangle   

COMPANY SMART RISE PRODUING Co.  
ADDRESS 412 2nd ST. WHEELING, OHIO  
DESIGNATED AGENT RICHARD FERRELL  
ADDRESS RT. 1 MIDDLERIDGE, W.VA.  
SURFACE OWNER STAPLEY LEADSTERS  
ADDRESS RT. 1 MIDDLERIDGE, W.VA.  
MINERAL RIGHTS OWNER AA  
ADDRESS     
OIL AND GAS INSPECTOR FOR THIS WORK     
ADDRESS   

PERMIT ISSUED     
DRILLING COMMENCED 1935  
DRILLING COMPLETED 1935

IF APPLICABLE: PLUGGING OF DRY HOLE ON CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED ON   

Casing Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft.
Size 20-16 Cond.			
13-10"			
9 5/8			
8 5/8			
7	1732	1732	
5 1/2	1732	1732	
4 1/2			
3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION KEENER Depth 1030 feet  
Depth of completed well 1030 feet Rotary    / Cable Tools X  
Water strata depth: Fresh    feet; Salt    feet  
Coal seam depths:    Is coal being mined in the area?   

OPEN FLOW DATA

Producing formation KEENER Pay zone depth 1030 feet  
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 measurement) after    hours shut in  
(If applicable due to multiple completion--)  
Second producing formation    Pay zone depth    feet  
Gas: Initial open flow    Mcf/d Oil: Initial open flow    Bbl/d  
Final open flow    Mcf/d Oil: Final open flow    Bbl/d  
Time of open flow between initial and final tests    hours  
Static rock pressure    psig (surface measurement) after    hours shut in

(Continue on reverse side)

REC. # 10775

CK 27699  
10000

95005287

WW-4A  
Revised 6-07

1) Date: September 19, 2013  
2) Operator's Well Number  
B.F Hawkins # 10  
3) API Well No.: 47 - 095 - 0528

**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> <u>Moundsville, WV 26041</u>	Address _____
(b) Name _____	(b) Coal Owner(s) with Declaration
Address _____	Name <u>N/A</u>
(c) Name _____	Address _____
Address _____	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>	Address _____

**TO THE PERSONS NAMED ABOVE:** You should have received this Form and the following documents:

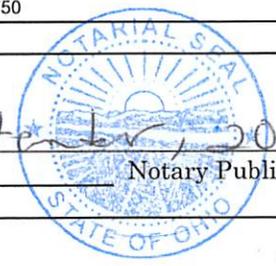
- (1) The application to Plug and Abandon a Well on Form WW-4B, which sets out the parties involved in the work and describes the well its and the plugging work order; and
- (2) The plat (surveyor's map) showing the well location on Form WW-6.

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 24th day of September, 2013  
Elizabeth R. Tebay  
 My Commission Expires 9-29-16  
 Notary Public



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

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Office of Oil and Gas

**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](mailto:depprivacyofficer@wv.gov).

WV Department of  
Environmental Protection

9500528A

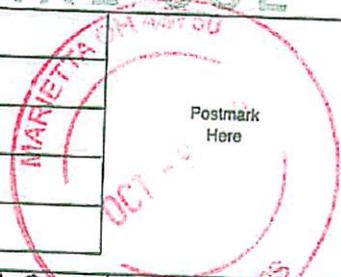
7006 0100 0003 5664 1416

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



Postmark Here

Sent To: Ronald and Sandra Martin

Street, Apt. No., or PO Box No.: RR 5 Box 313 Chase Lane

City, State, ZIP+4: Woundsville WV 26041

PS Form 3800, June 2002

See Reverse for Instructions



9500528P

WW-9  
Rev. 5/08

Page 1 of 2  
API Number 47 - 095 - 0528  
Operator's Well No. B.F. Hawkins # 10

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 905' (GPS 937') County Tyler District Ellsworth

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

Will a synthetic liner be used in the pit? Yes

Proposed Disposal Method For Treated Pit Wastes:

- Land Application
- Underground Injection ( UIC Permit Number UIC 2DO855151 )
- 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]

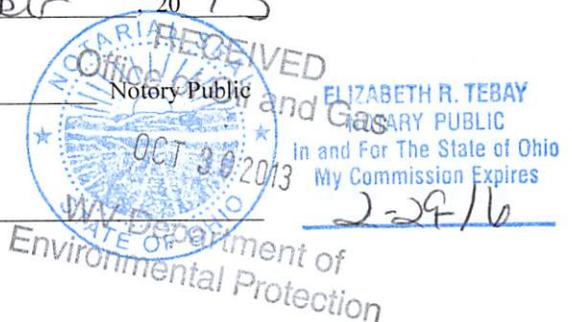
Company Official (Typed Name) Rocky Roberts

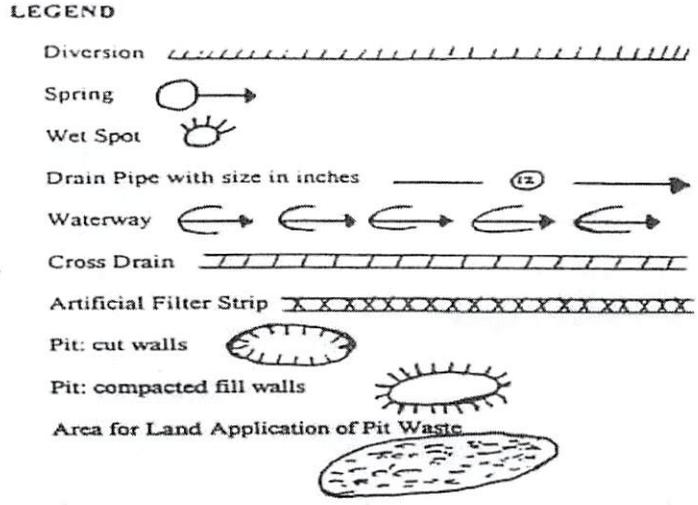
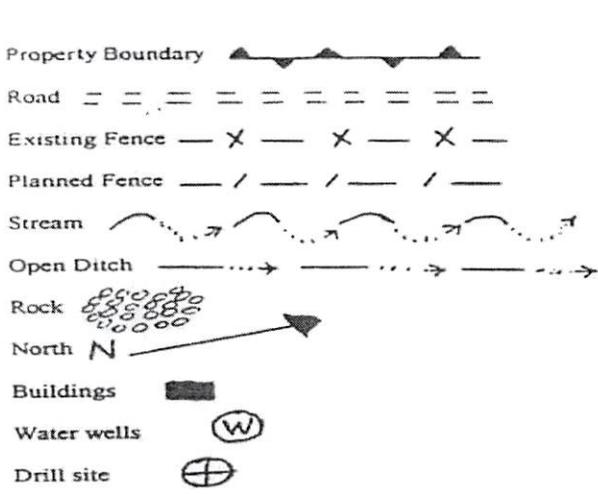
Company Official Title Senior VP Appalachian Operations

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

[Signature]

My commission expires 2-29-16





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.

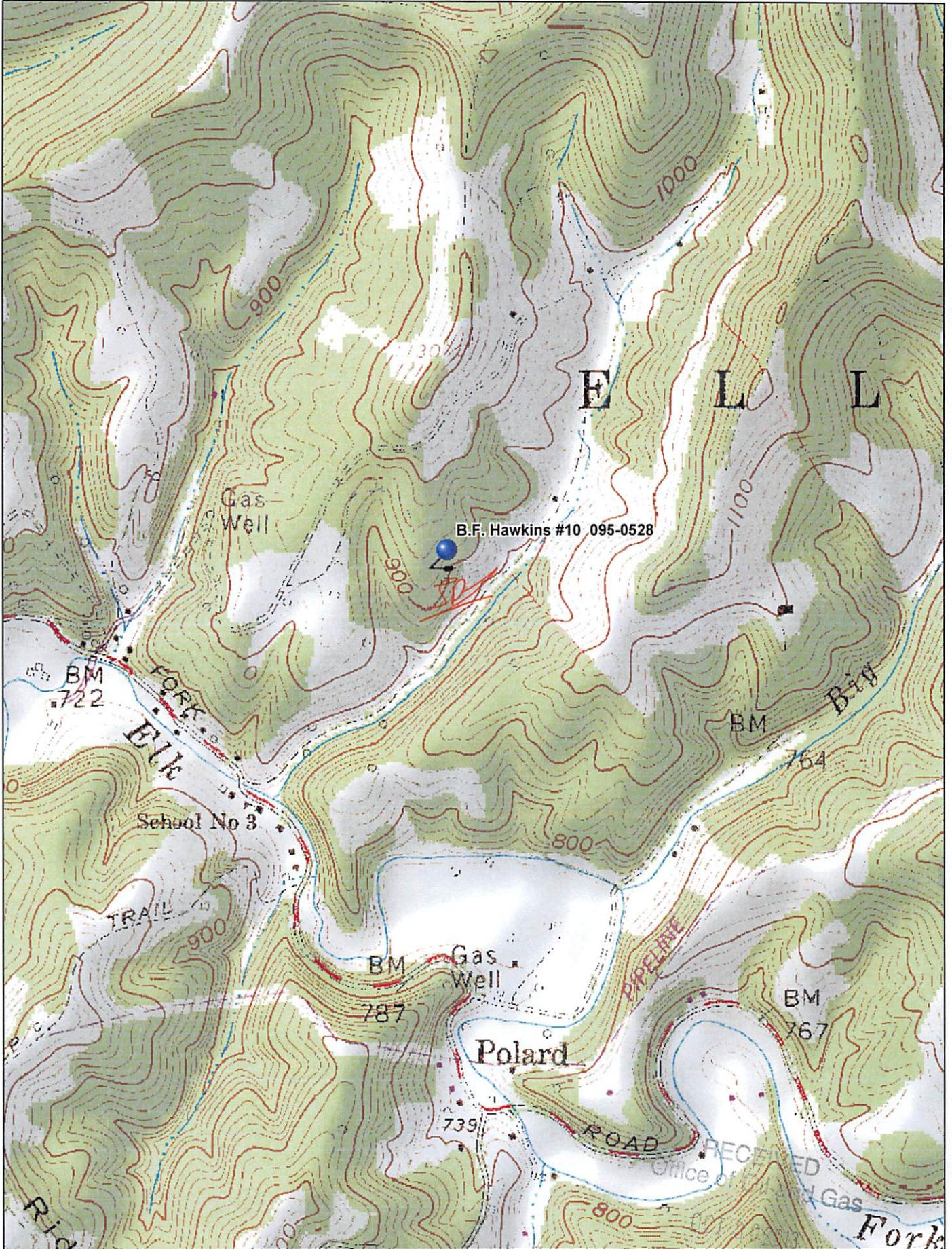
Plan Approved by:   
Comments: \_\_\_\_\_

Title: Inspector

Date: 10-2-13

Field Reviewed? (  ) Yes (  ) No

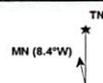
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Scale 1 : 12,000

0 200 400 600 800 1000  
0 100 200 300 400 500

1" = 1,000.0 ft Data Zoom 13-5

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