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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

January 06, 2014

**WELL WORK PLUGGING PERMIT**

**Plugging**

This permit, API Well Number: 47-9500522, 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: J. (HARRIS) WOOD #4  
Farm Name: MERCER, WAYNE H. & VIOLET  
**API Well Number: 47-9500522**  
**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

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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.





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. (1747' OF 2" TUBING)
3. Run 2 3/8" 8rnd tubing to the base of the shot hole or pay zone, OR TO TOP OF PACKER.
4. Mix/Pump 75 sacks Class A Cement, 1/4 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, 1/4 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, 1/4 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.

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

\* 2a. RELEASE PACKER AND TRIP 4 7/8" OUT OF HOLE OR SHOOT/CUT OFF 4 7/8" ABOVE PACKER AND TRIP 4 7/8" OUT OF HOLE.

*[Handwritten Signature]*  
10-2-13

\* ELEVATION PLUG - SET 100' OF CLASS A CEMENT WITH NO MORE THAN 3% CaCl<sub>2</sub> AND NO OTHER ADDITIVES FROM 877' - 777'.

01/10/2014

*[Handwritten initials]*

47-095-0522

LEASE NO.	785 <del>781</del>	ACRES	100	FARM NAME	HARRIS J. & W. (Bren) Wood	H.No.1980	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			Sold To				
State	W.Va.	Dr'g Completed			Date Sold				
GAS OIL	Rights Owned By	Dr'g Contractor			Date Abandoned				
<b>FORMATION</b>				<b>CASING RECORD</b>					
Kind	Top	Bottom	Steel Line Meas.	Tests	Size	Bottom Casing Steel Line	Put in Well Tally Meas.	Pulled Tally Meas.	Cemented
					10"		205	205	Date
					8 1/2"		915	915	Size Csg.
					6 1/2"		1645		Top "
					4-7/8"		1579		Bot. "
					2" Tbg.		1747		
				<b>PACKERS AND SHOES</b>					
				Kind	Size	Depth Set	Date Set		
				H.W. Packer	6 1/2" x 4-7/8"		3-16-23		
				<b>TORPEDO RECORD</b>					
				Date	No. Qts.	Size Shell	Top Shot	Bottom	Results
				12-30-98	10		1724	1732	
				3-21-99	20		1727	1737	
				8-11-23	20		1732		
				<b>DRILLING DEEPER</b>					
				Commenced	Completed	Original Depth	Final Depth	Contractor	
				<b>ABANDONMENT RECORD</b>					
				Filled With	From	To	PLUG		
							Size	Kind	Depth
				<b>APPROVED</b>					
				TESTS, REPORTS AND REMARKS ON REVERSE SIDE					

Gas 1724  
Oil 1727

Total Depth 1757

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

\* Oil in Barrels  
\* Gas in M. Cu. Ft.

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## (Well Information)

ELK FORK FIELD

Permit Number : 47-095-0522 Well Name : J. (Harris) Wood #4  
 District : Ellsworth County : Tyler  
 Date Drilled : January 1899 Total Depth : 1757' Elevation : 827'  
 Producing Zone : Keener Shot Hole Depth : 1724'-1737'  
 Casing Depths : 10" 205' P 8 1/4" 915' P Tubing Depth : 2" 1747'  
                   6 5/8" \_\_\_\_\_ 6 1/4" 1645'  
                   5 3/16" \_\_\_\_\_ 4 7/8" 1579'

Remarks : 4 7/8" set on H.W. Packer  
Gas @ 1724', Oil @ 1727'  
(-897) (shot 3 times)

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9500522P



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

Enter Permit #: 0522

Location     Production     Plugging  
 Owner/Completion     Stratigraphy     Sample  
 Pay/ShowWater     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 = 0522

Report Time: Thursday, February 14, 2013 4:36:44 PM

Location Information: [View Map](#)

API	COUNTY	PERMIT	TAX_DISTRICT	QUAD_75	QUAD_15	LAT_DD	LON_DD	UTME	UTMN
4709500522	Tyler	522	Ellsworth	Porters Falls	New Martinsville	39.531884	-80.862747	511795.5	4375812

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
4709500522	1/29/1899	Original Loc	Completed	James Wood 4						South Penn Oil (S. Penn Nat. Gas)		
4709500522	8/11/1923	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	O_BEF	O_AFT
4709500522	1/29/1899	12/27/1898			Kdwl-Eik Fk Ar	Big Injun (undiff)	Big Injun (undiff)	unclassified	unclassified	Oil and Gas	unknown	Shot	1757		1757	0	0	0	0
4709500522	8/11/1923	-/-			Kdwl-Eik Fk Ar	Big Injun (undiff)	Big Injun (undiff)	Development Well	Development Well	not available	unknown	Shot	1757		0	0	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
4709500522	1/29/1899	Pay	Gas	Vertical			1724	Big Injun (undiff)	0	0			
4709500522	1/29/1899	Pay	Oil	Vertical			1727	Big Injun (undiff)	0	0			
4709500522	8/11/1923	Pay	Oil & Gas	Vertical			1732	Big Injun (undiff)	0	0			

Production Gas Information:

API	OPERATOR	PRD_YEAR	ANN_GAS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DCM
4709500522	Pennzoil Company	1981	0	0	0	0	0	0	0	0	0	0	0	0	0
4709500522	Pennzoil Company	1982	0	0	0	0	0	0	0	0	0	0	0	0	0
4709500522	Pennzoil Company	1983	0	0	0	0	0	0	0	0	0	0	0	0	0
4709500522	Triad Resources, Inc.	2001	5	0	0	0	0	0	5	0	0	0	0	0	0
4709500522	Triad Resources, Inc.	2003	0	0	0	0	0	0	0	0	0	0	0	0	0
4709500522	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
4709500522	Pennzoil Company	1981	175	0	0	0	0	0	0	0	0	0	0	0	0
4709500522	Pennzoil Company	1982	108	0	0	0	0	0	0	0	0	0	0	0	0
4709500522	Pennzoil Company	1983	43	0	0	0	0	0	0	0	0	0	0	0	0
4709500522	Triad Resources, Inc.	2001	0	0	0	0	0	0	0	0	0	0	0	0	0
4709500522	Triad Resources, Inc.	2003	0	0	0	0	0	0	0	0	0	0	0	0	0
4709500522	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

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01/10/2014

2/14/2013

CK 27699  
10000

95 00522A

WW-4A  
Revised 6-07

1) Date: September 19, 2013  
2) Operator's Well Number J.( Harris ) Wood # 4  
3) API Well No.: 47 - 095 - 0522

**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>Wayne H. and Violet Mercer</u>	Name <u>N/A</u>
Address <u>RR 1 Box 176A</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.

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

WV Department of  
Environmental Protection

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

ELIZABETH R. TEBAY  
NOTARY PUBLIC  
Notary Public  
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 [depprivacyofficer@wv.gov](mailto:depprivacyofficer@wv.gov).

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9500522P

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Sent To: Wayne H. & Violet Mercer  
 Street, Apt. No., or PO Box No.: RFI BOX 176A  
 City, State, ZIP+4: Middlebourne, WV 26149

PS Form 3800, August 2006 See Reverse for Instructions



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 827' (GPS 841') County Tyler District Ellsworth

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

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

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

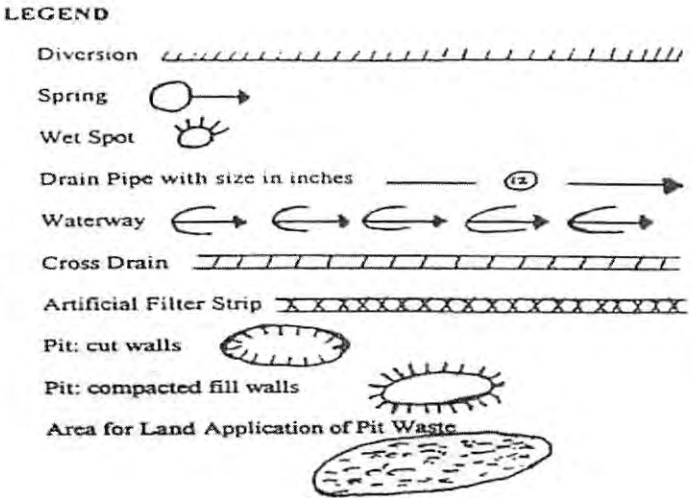
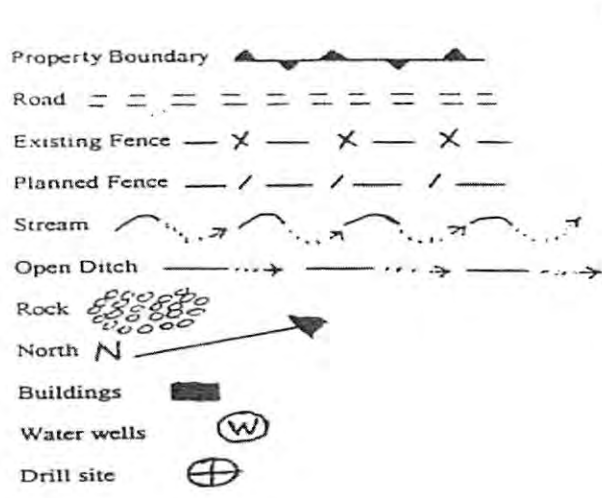
Company Official Title Senior VP Appalachian Operations

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

[Signature] Notary Public

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%

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

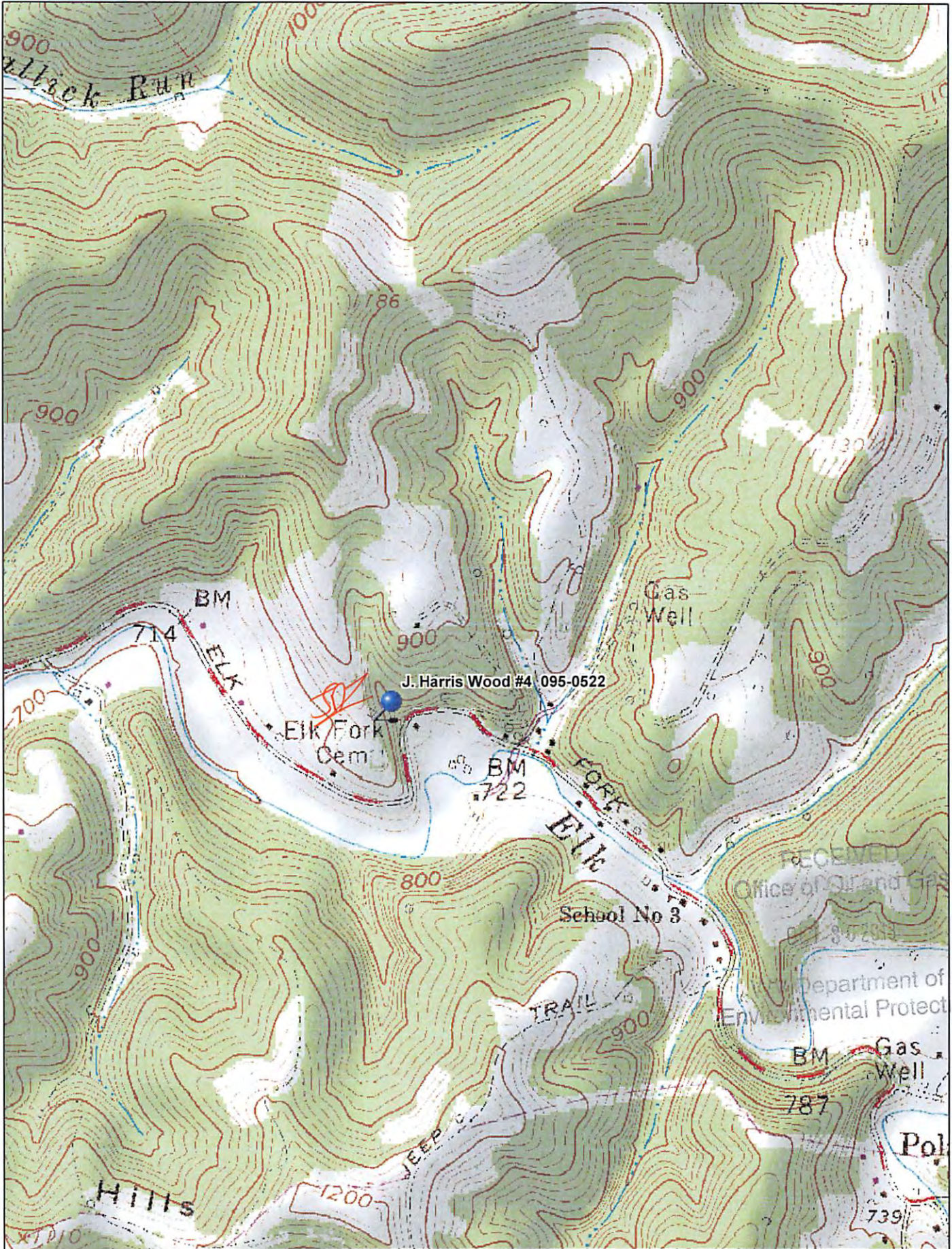
Photocopied section of involved 7.5' topographic sheet.

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

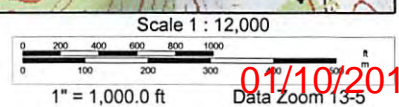
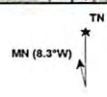
Title: Inspector Date: 10-2-13

Field Reviewed? (  ) Yes (  ) No





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