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

October 16, 2013

**WELL WORK PLUGGING PERMIT**

**Plugging**

This permit, API Well Number: 47-500257, issued to ENERGY CORPORATION OF AMERICA, 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: 44  
Farm Name: YAWKEY FREEMAN  
**API Well Number: 47-500257**  
**Permit Type: Plugging**  
Date Issued: 10/16/2013

**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 July 31, 2013
- 2) Operator's  
Well No. Yawkey Freeman #44
- 3) API Well No. 47-005-00257

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 \_\_\_ / Gas X / Liquid injection \_\_\_ / Waste disposal \_\_\_ /  
(If "Gas, Production X or Underground storage \_\_\_) Deep \_\_\_ / Shallow \_\_\_
- 5) Location: Elevation 939' Watershed Jones Branch of Spruce Fork of Coal Water  
District Washington County Boone Quadrangle \_\_\_\_\_
- 6) Well Operator Energy Corporation of America 7) Designated Agent Rodney A Winters  
Address 501 56th St SE Address Same  
Charleston, WV 25304
- 8) Oil and Gas Inspector to be notified 9) Plugging Contractor  
Name Ross Eller Name Steve Duckworth Well Services  
Address 121 Brierhill Drive Address P.O. Box 6871  
Beckley, WV 25801 Charleston, WV 25362

10) Work Order: The work order for the manner of plugging this well is as follows:  
Please see next page for details.

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SEP 17 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 9/16/13

Yawkey Freeman #44 Plugging PlanDrilling Info:

County: Boone  
 Lat: 37.96932664  
 Long: -81.8291187

Start Date: 10/06/1934

Conductor: Ran 16' of conductor with unknown weight.

Surface: Ran 804'4" of 10" casing with unknown weight and amount of cement used.

Intermediate: Ran 1212'9" of 8-1/4" casing with unknown weight and amount of cement used.

Production: Ran 1724'6" of 6-5/8" casing with unknown weight and amount of cement used.

Fresh Water: 108'

Gas Shows: 574'

Oil Shows: None Reported

→ LIGHT OIL SHOW @ 1565'

Salt Sand: None Reported

Coal: 50' to 53', 106' to 108'

Completion Info:

Tubing Ran to 1700'

Has Spang B.H. packer (10x13-1/2x8") set at a depth of 804'4". Cemented.

Gas Anchor (2x6-5/8x15") set at a depth of 1705'

Plugging Plan:

1. Notify Inspector Ross Eller @ 304-932-6844, 24 hr prior to commencing operations.
2. TOOH with tubing. TIH with tubing to 1741'.
3. Place cement plug from 1741'-1640'. TOOH with tubing.
4. Cut 6-5/8" casing at TOC and place a 100' cement plug at casing cut. POOH. <sup>ACROSS</sup>
5. TIH with tubing to 1270' and pump a plug from 1270'-1170'. If casing is cut below that point.
6. While pulling out of hole with tubing place cement plug #3 from 100'-0'.
7. Weld on monument with API number and reclaim.
8. Reclaim according to the WV DEP Specifications.

PULL AS MUCH  
 10" CASING AS POSSIBLE.

COVER GAS SHOWS AT 574'  
 WITH A CEMENT PLUG FROM 600'-  
 500'. GEL TO 120'. COVER COAL  
 & FRESH WATER FROM 120' - SURFACE.

gmm

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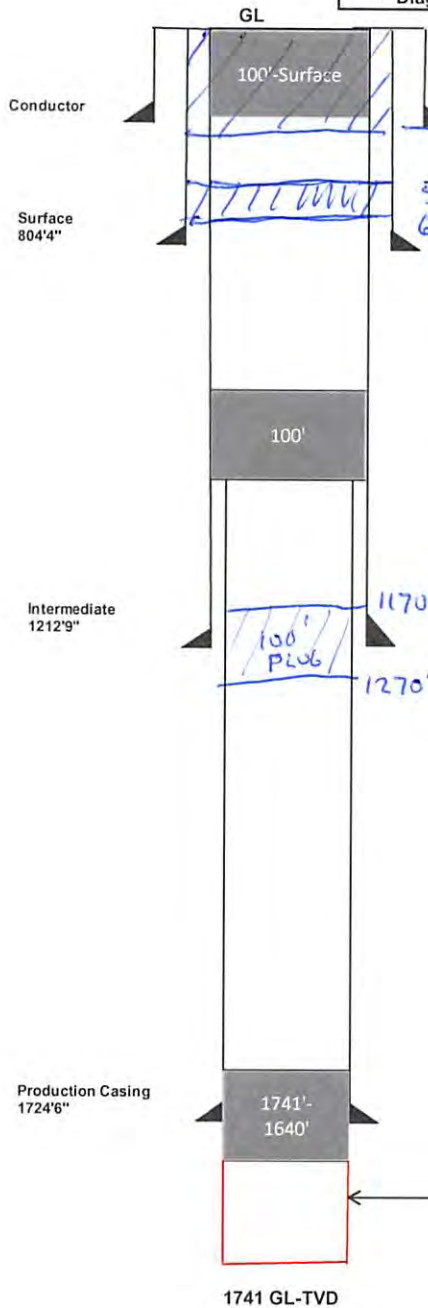
Diagram with possible cement plug placement.



Energy Corporation of America

Yawkey Freeman #44  
 47-005-00257  
 Boone County, WV  
 Current Wellbore

Created by: Trey Porter Date: 05/08/2013



Casing Specifications

	Depth (ft) GL	Casing OD	Casing ID	Casing Drift	Wt/Grade/C connection	Burst	Collapse	C.Top
Conductor	16'							
Surface	804'4"	10"			UNK			UNK
Intermediate	1212'9"	8-1/4"			UNK			UNK
Production Casing	1724'6"	6-5/8"			UNK			UNK
Tubing	1700'	2-3/8"			UNK			UNK

Wellbore Equipment	OD	ID	MD	TVD
Spang B.H. Packer	13-1/2"		804'4"	804'4"
Gas Anchor	6-5/8"		1705'	1705"

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**Energy Corporation of America**

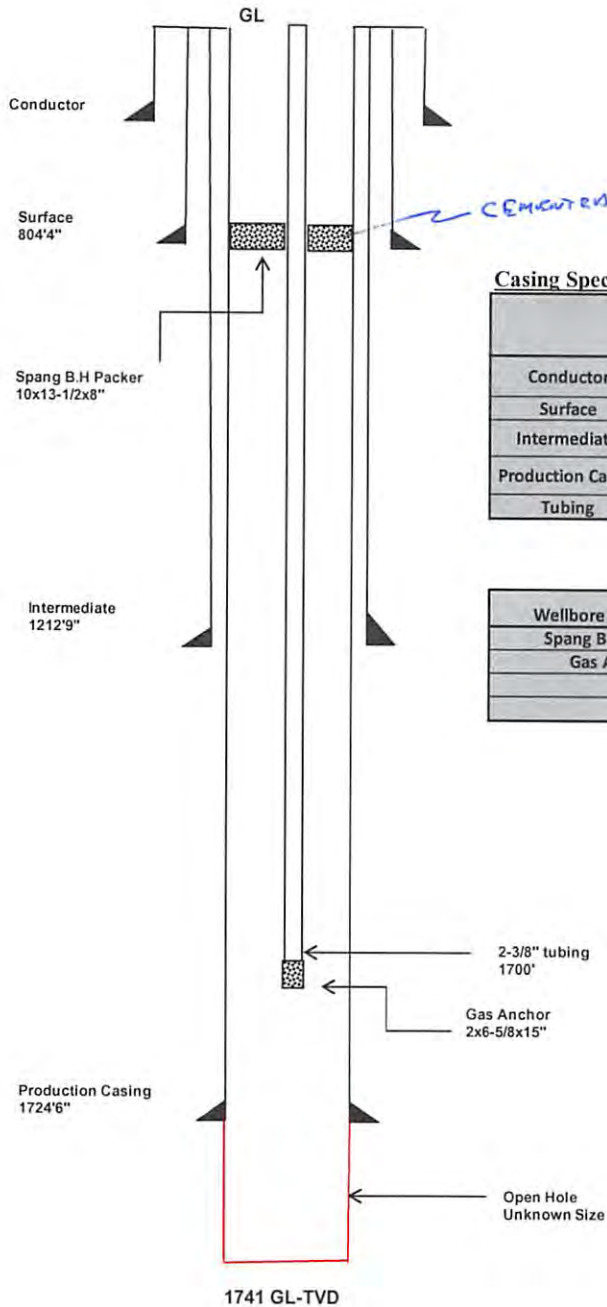
**Yawkey Freeman #44**

**47-005-00257**

Boone County, WV

Current Wellbore

Created by: Trey Porter Date: 05/08/2013



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Case No. 73235.

Acres 221

Farm Name Yawkey-eman (Cont.)

Well No. 44.

MAP 164W

At Jersey Waters of Jones Branch of Pruce Fork of Coal River

N. S. 101. E. W. 70

Location Made September 17, th 1934. Purchased From

500257A

Civil District Washington,

Rig Completed September 30, th 1934. Date Purchased

County Boone,

Dr'g Commenced October 6, th 1934. Sold To

State West Va.

Dr'g Completed December 3, rd 1934. Date Sold

GAS OIL Rights Owned By S. P. Oil Company,

Dr'g Contractor South Penn Drlg A/C. Date Abandoned

FORMATION

Kind	Top	Bottom	Steel Line Measurement	Tests
Conductor		16		
Soil		16		
Dark Slate	16	50		
Coal	50	53		
Black Lime	53	90		
Black Slate	90	106		
Coal	106	108		
Water		108		Water to drill,
White Sand	108	128		
Blue Slate	128	140		
Grey Lime	140	200		
Break	200	210		
White Sand	210	260		
Black Lime	260	300		
Break	300	305		
Black Lime	305	360		
Black Slate	360	395		
Slate	395	398		
Black Lime	398	440		
Water		400		5-Bailers per Hr.
Black Slate	440	460		
Grey Lime	460	490		
Water		475		7-Bailers per Hr.
White Sand	490	572		
Gas		574		Light Show.
Black Slate	572	575		
White Sand	575	735		
Black Slate	735	740		
Black Lime	740	762		
Slate & Shells	762	797		
White Lime	797	815		
Slate & Shells	815	838		
White Sand	838	1238		
Water		900		3-Bailers.
Water		968		6- Do. 2 Hrs.
Water		980		Hole Full.
Black Slate	1238	1243		
White Lime	1243	1250		
Pink Rock	1250	1260		
Red Rock	1260	1270		
Black Lime	1270	1275		

LIFT UP

Initial Prod.	Sand	* At Completion	* 30Days After	*
Oil				
Gas	Big Lime.	24/10 Mer.	2" Opng.	

CASING RECORD

Size	Bottom Casing (Steel Line)	Put In Well (Tally Meas.)	Pulled (Tally Meas.)	Cement
10"		804'4"	412 Cemented.	Date
8 1/4"		1212'9"	384	Size Csg.
6-5/8"		1724'6"	304.	Top "
	1700		64.	Bot. "

PACKERS AND SHOES

Kind	Size	Depth Set	Date Set
Spang B.H. Packer	10X13 1/2 X 8"	804'4"	Cement
Gas Anchor.	2" X 6-5/8 X 16"	1705'	12-3-34

TORPEDO RECORD

Date	No. Qts.	Size Shell	Top Shot	Bottom	Rest
6/15-11	1500	Del. Acidizing			
		Before treatment			
		After treatment			

DRILLING DEEPER

Commenced	Completed	Original Depth	Final Depth	Contract

ABANDONMENT RECORD

Filled With	From	To	PLUG		
			Size	Kind	De

APPROVED

# SOUTH PENN OIL COMPANY

Issue made **Sept 17 1934**  
**Yankey & Freeman** Well No. **44**  
**Freeman**

73235

27221

Washington

Dist. Trenchy

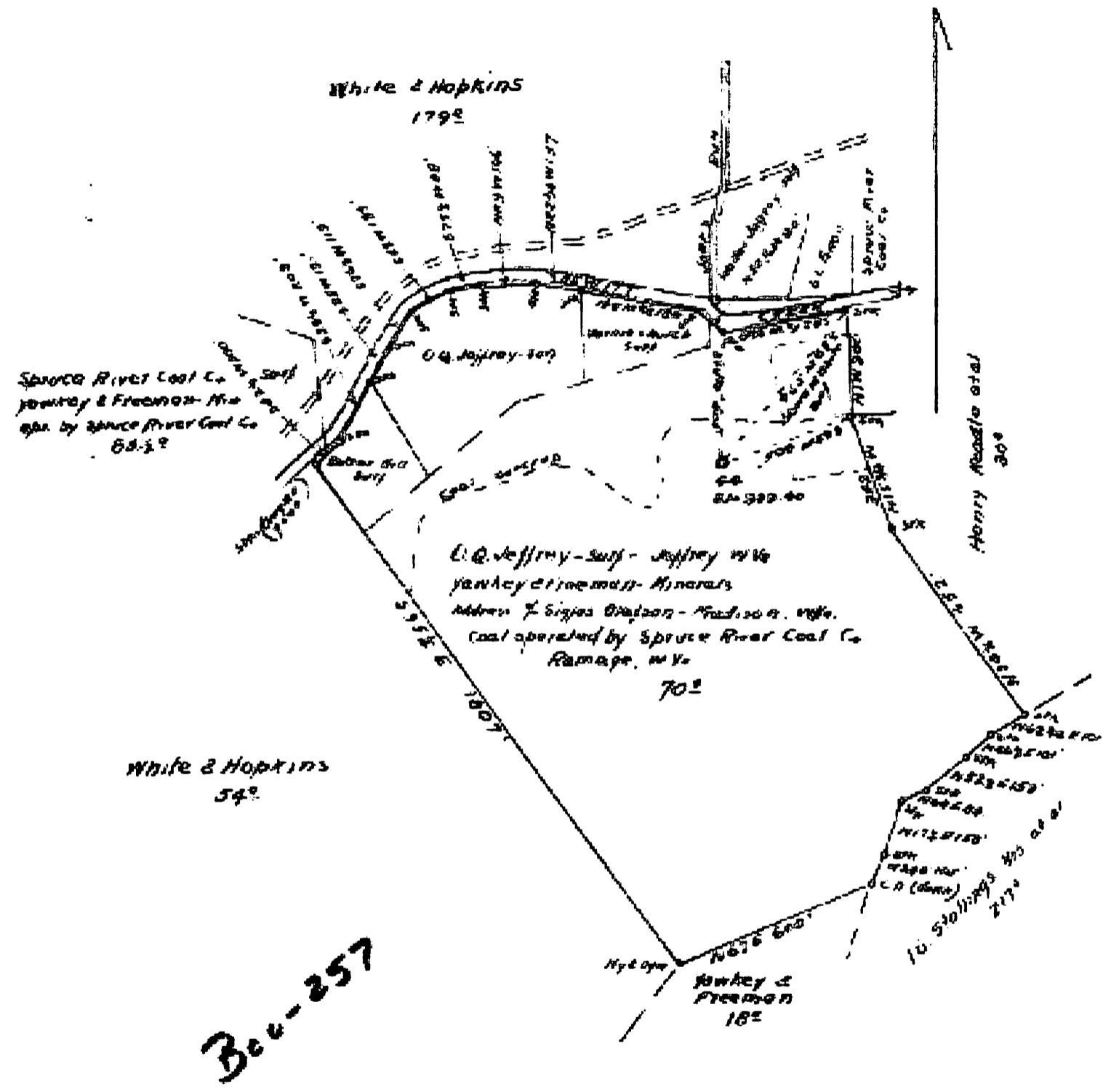
Boone

County W Va

N 101 W 70

400'

Elevation ~~4000~~ ground 939.40



Notes  
 Special Instructions  
 Location of points  
 Location of any other points  
 Change of location of points by  
 Location of well  
 Date well is completed  
 Data taken and entered by *Engle* 10/2

Location of well  
 Date of completion of well  
 Name of well  
 Name of owner  
 Name of operator  
 Name of engineer

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SEP 05 1934

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WW-4A  
Revised 6-07

1) Date: 06/31/2013  
2) Operator's Well Number  
Yawkey Freeman #44

3) API Well No.: 47 - 005 - 00257

**STATE OF WEST VIRGINIA**  
**DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS**  
**NOTICE OF APPLICATION TO PLUG AND ABANDON A WELL**

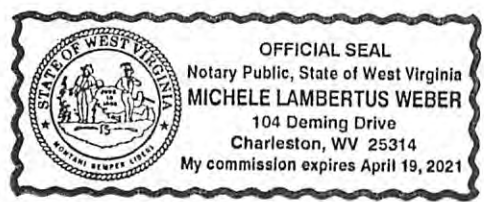
4) Surface Owner(s) to be served:	✓	5) (a) Coal Operator	✓
(a) Name	<u>James &amp; Karen Jenkins</u>	Name	<u>Freal Mize</u>
Address	<u>P.O. Box 509</u> <u>Madison, WV 25130</u>	Address	<u>P.O. Box 271</u> <u>Julian WV, 25529</u>
(b) Name	_____	(b) Coal Owner(s) with Declaration	✓
Address	_____	Name	<u>Freal Mize</u>
(c) Name	_____	Address	<u>P.O. Box 271</u> <u>Julian WV, 25529</u>
Address	_____	Name	_____
		Address	_____
6) Inspector	✓	(c) Coal Lessee with Declaration	
Address	<u>Ross Eller</u>	Name	_____
Telephone	<u>121 Brierhill Drive</u> <u>Beckley, WV 25801</u> <u>304-932-6844</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 Energy Corporation of America

By: Rodney A Winters *RAW*

Its: VP of Land

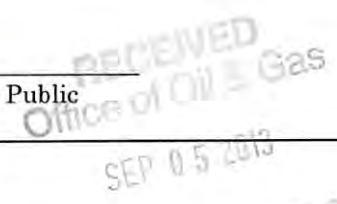
Address 501 56th St SE  
Charleston, WV 25304

Telephone 304-925-6100

Subscribed and sworn before me this 28 day of August, 2013

Michele Lambertus Weber Notary Public

My Commission Expires April 19, 2021



**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).

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 Energy Corporation of America OP Code 014980

Watershed Jones Branch of Spruce Fork of Coal Water Quadrangle Clothier 301

Elevation 939' County Boone 05 District Washington 05

Description of anticipated Pit Waste: Fresh Water and Gel

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 \_\_\_\_\_ )
- 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.

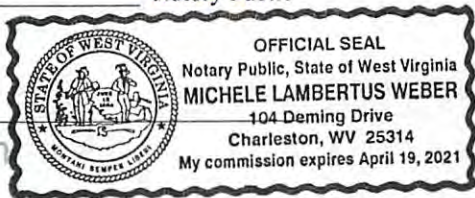
Company Official Signature [Signature]

Company Official (Typed Name) Rodney A Winters

Company Official Title Vice President of Land

Subscribed and sworn before me this 28 day of August, 2013

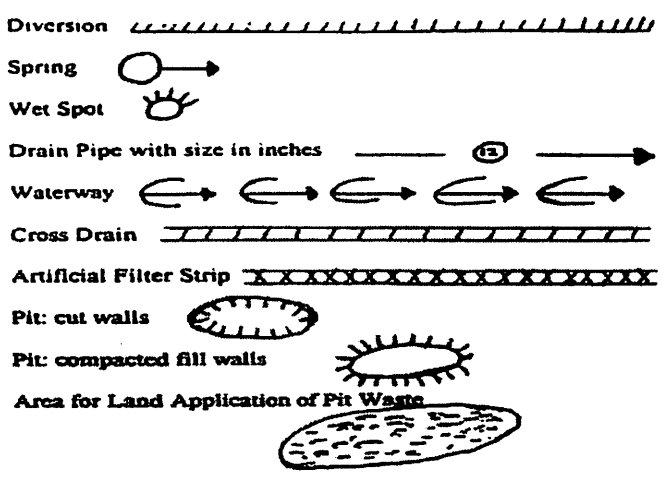
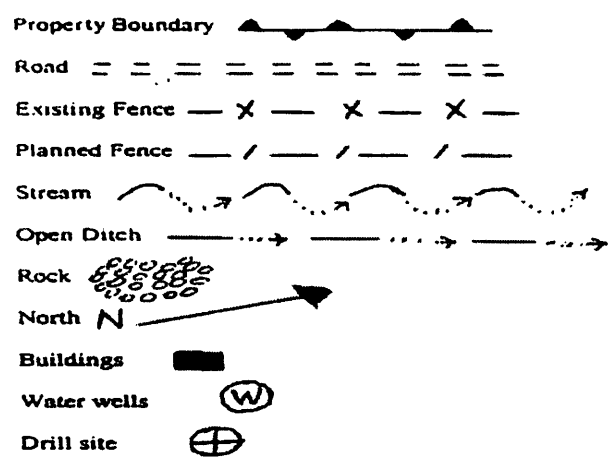
Michele Lambertus Weber  
Notary Public



My commission expires April 19, 2021

SEP 05 2013  
WV Department of Environmental Protection

**LEGEND**



Proposed Revegetation Treatment: Acres Disturbed .5 Prevegetation pH \_\_\_\_\_

Lime 2 Tons/acre or to correct to pH 6.5

Fertilizer (10-20-20 or equivalent) 500 lbs/acre (500 lbs minimum)

Mulch Straw 2 Tons/acre

Seed Mixtures

Seed Type	Area I	lbs/acre
Tall Fescue		40
Ladino Clover		5

Seed Type	Area II	lbs/acre
Tall Fescue		40
Ladino Clover		5

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

Photocopied section of involved 7.5' topographic sheet.

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

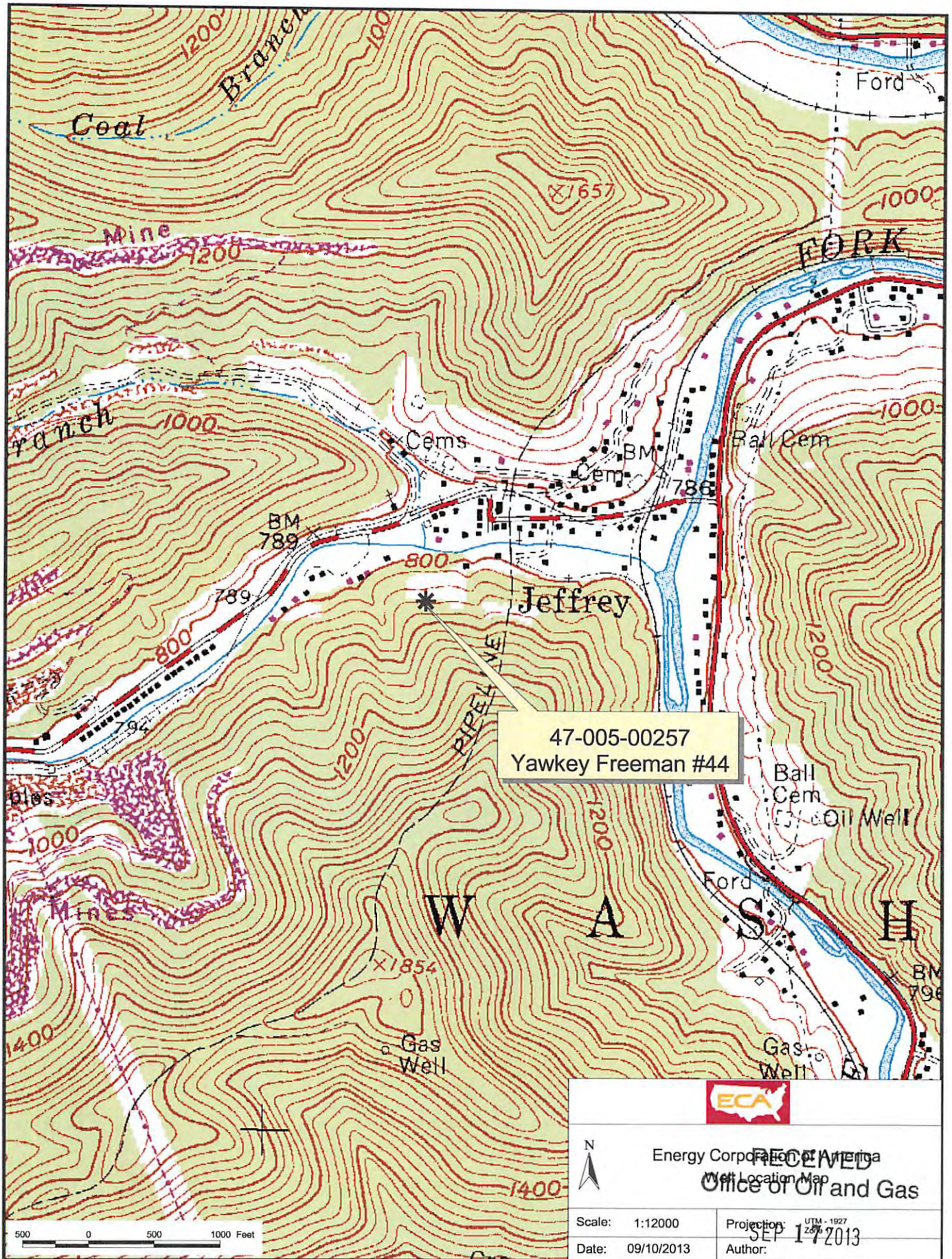
Comments: \_\_\_\_\_

Title: \_\_\_\_\_

Date: RECEIVED  
Office of Oil & Gas

Field Reviewed? ( ) Yes ( ) No

SEP 05 2013



500257P

WW-7  
8-30-06



West Virginia Department of Environmental Protection  
Office of Oil and Gas

**WELL LOCATION FORM: GPS**

API: 47-005-00257 WELL NO.: 44

FARM NAME: Yawkey Freeman

RESPONSIBLE PARTY NAME: Energy Corporation of America

COUNTY: Boone DISTRICT: Washington

QUADRANGLE: Clothier

SURFACE OWNER: James & Karen Jenkins

ROYALTY OWNER: Yawkey Foundation II and Westvarendrag Inc.

UTM GPS NORTHING: 4,202,747.27

UTM GPS EASTING: 427,188.53 GPS ELEVATION: 282 M 939 FT

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

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Environmental Protection

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.

*Alan Patton*  
Signature

Drilling Engineer  
Title

9-10-13  
Date



# Energy Corporation of America

501 56<sup>th</sup> Street. SE  
Charleston, WV 25304  
(304) 925-6100  
Fax: (304) 925-9682

August 28, 2012

State of West Virginia  
Division of Environmental Protection  
Section of Oil and Gas  
Attn: Kay Holtsclaw  
601 57<sup>th</sup> Street, S.E.  
Charleston, WV 25304-2345

Check # 348005  
\$700.<sup>00</sup>

Re: Notice of Application to Plug and Abandon Well

Dear Ms. Holtsclaw:

Attached for your attention and handling, please find notice of application to Plug and Abandon the following well:

API No.	Well Name
47-005-00257	Yawkey Freeman #44

Please contact our offices if you have any questions regarding the documents.

Thank You,

Michele L. Weber  
Land Analyst

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SEP 05 2013  
WV Department of  
Environmental Protection

Received  
AUG 30 2013  
Office of Oil and Gas  
WV Dept. of Environmental Protection