



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

May 29, 2014

WELL WORK PLUGGING PERMIT

Plugging

This permit, API Well Number: 47-1502886, issued to RAVEN RIDGE ENERGY, 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.

A blue ink signature of James Martin, Chief, is written over the text of his name and title.

James Martin
Chief

Operator's Well No: KING 1
Farm Name: KING, GEORGE
API Well Number: 47-1502886
Permit Type: Plugging
Date Issued: 05/29/2014

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.

1) Date MARCH 13, 2014
2) Operator's
Well No. KING #1
3) API Well No. 47-015 - 2886

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 962' Watershed UPPER BIRCH RUN
District UNION County CLAY Quadrangle ELKHURST 7.5'

6) Well Operator RAVEN RIDGE ENERY, LLC 7) Designated Agent RYAN E. M. CUNNINGHAM
Address 3230 PENNSYLVANIA AVENUE Address 1212 STAUNTION ROAD
CHARLESTON, WV 25302 CHARLESTON, WV 25302

8) Oil and Gas Inspector to be notified Name ED GAINER
Address P.O. BOX 821
SPENCER, WV 25276
9) Plugging Contractor Name CUNNINGHAM ENERGY, LLC
Address 3230 PENNSYLVANIA AVENUE
CHARLESTON, WV 25302

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

*Any changes must be approved by
Inspector.*

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

Work order approved by inspector



Date

4/24/14

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Office of Oil and Gas
29 2014
Department of
Environmental Protection

05/30/2014

King #1
API: 47-0152886

- Pull tubing and check TD. Run tubing back to bottom of shot hole (Approx. 1867'); pump 10bbl of 6% gel; set a 250' cement plug (60 sacks); pull tubing.
- Check top of cement – verify it held
Note: Don't pull any 5 3/16" casing until plug is set through it, because 5 3/16" casing seems to be the only casing. If you pull it, it may cave and won't be able to get back into the hole.
- Attempt to cut 5 3/16" casing at 1,000'; run tubing to 1,050'; pump 10bbl. 6% gel; set a 140' plug 1,050' – 912' (25 sacks); pull tubing; then pull 305' of 5 3/16" casing to 695'
- Run tubing to 695'; pump 6bbl of 6% gel; be sure hole is filling with gel; set 100' plug 695' – 595' (20 sacks); pull tubing; pull 5 3/16" casing
- Run tubing to 200'; cement to surface (45-50 sacks); top off as needed; set monument to state regulations.


4/24/14

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Office of Oil and Gas
APR 28 2014
WV Department of
Environmental Protection

05/30/2014

WW-4A
Revised 6-07

1) Date: APRIL 17, 2014
2) Operator's Well Number
KING #1
3) API Well No.: 47 - 015 - 2886

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

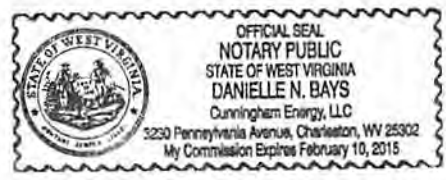
4) Surface Owner(s) to be served:	5) (a) Coal Operator
(a) Name: ROBERT TAYLOR	Name: _____
Address: 1967 BOMONT ROAD	Address: _____
BOMONT, WV 25030	
(b) Name: _____	(b) Coal Owner(s) with Declaration
Address: _____	Name: _____
	Address: _____
(c) Name: _____	Name: _____
Address: _____	Address: _____
6) Inspector: ED GAINER	(c) Coal Lessee with Declaration
Address: P.O. BOX 821	Name: _____
SPENCER, WV 25276	Address: _____
Telephone: 304-389-7582	

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 RAVEN RIDGE ENERGY, LLC

By: [Signature]
RYAN CUNNINGHAM

Its: OFFICER

Address: 3230 PENNSYLVANIA AVENUE
CHARLESTON, WV 25302

Telephone: 304-344-9291

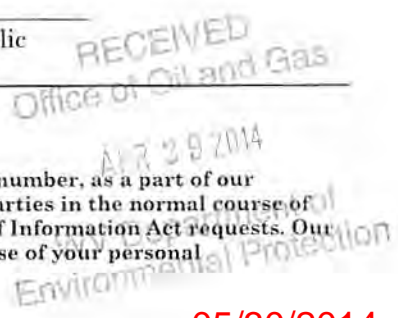
Subscribed and sworn before me this 23rd day of APRIL, 2014

[Signature] Notary Public

My Commission Expires FEBRUARY 10, 2015

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.



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OFFICIAL USE

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

K-1

Sent To	Mr. Robert Taylor
Street, Apt. No., or PO Box No.	1967 Bomont Rd.
City, State, ZIP+4	Bomont WV 25030

PS Form 3800, August 2006 See Reverse for Instructions

1502886P
CK9275
10000

WW-9
Rev. 5/08

Page _____ of _____
API Number 47 - 015 - 2886
Operator's Well No. KING #1

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 RAVEN RIDGE ENERGY, LLC OP Code 494485865

Watershed UPPER BIRCH RUN Quadrangle ELKHURST 7.5'

Elevation 962' County CLAY District UNION

Description of anticipated Pit Waste: CEMENT & GEL

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 _____)
- 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
- Swabbing
- Workover
- Plugging
- Other (Explain _____)

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 _____

Company Official (Typed Name) RYAN E. M. CUNNINGHAM

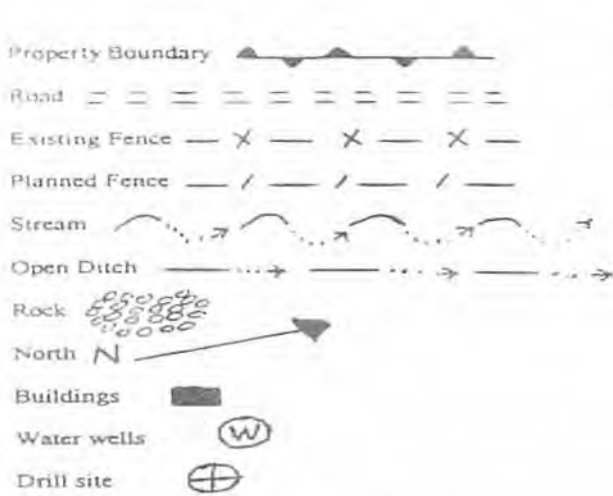
Company Official Title OFFICER

Subscribed and sworn before me this 23rd day of APRIL, 2017

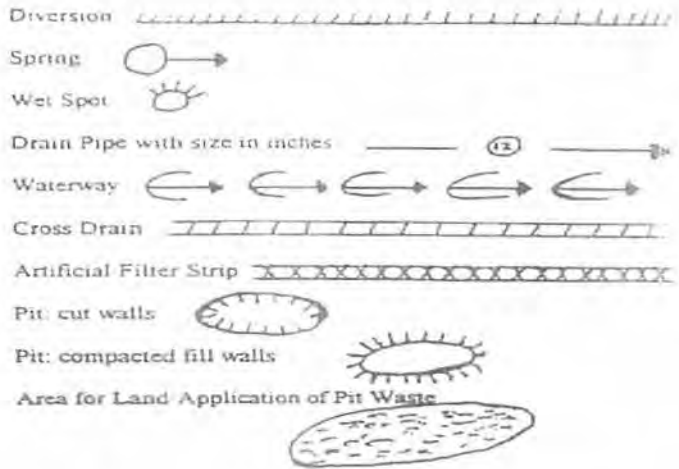
Daniel N. Bays Notary Public

My commission expires FEBRUARY 10, 2015

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APR 28 2014
WV Department of Environmental Protection



LEGEND



Proposed Revegetation Treatment: Acres Disturbed 1 Prevegetation pH _____
 Lime 3 Tons/acre or to correct to pH 6.5
 Fertilizer (10-20-20 or equivalent) 1/3 TON lbs/acre (500 lbs minimum)
 Mulch HAY - 2 Tons/acre

Seed Mixtures

Area I		Area II	
Seed Type	lbs/acre	Seed Type	lbs/acre
KY - 31	40	ORCHARD GRASS	15
ALSIKE CLOVER	5	ALSIKE CLOVER	5
ANNUAL RYE	15		

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

Photocopied section of involved 7.5' topographic sheet.

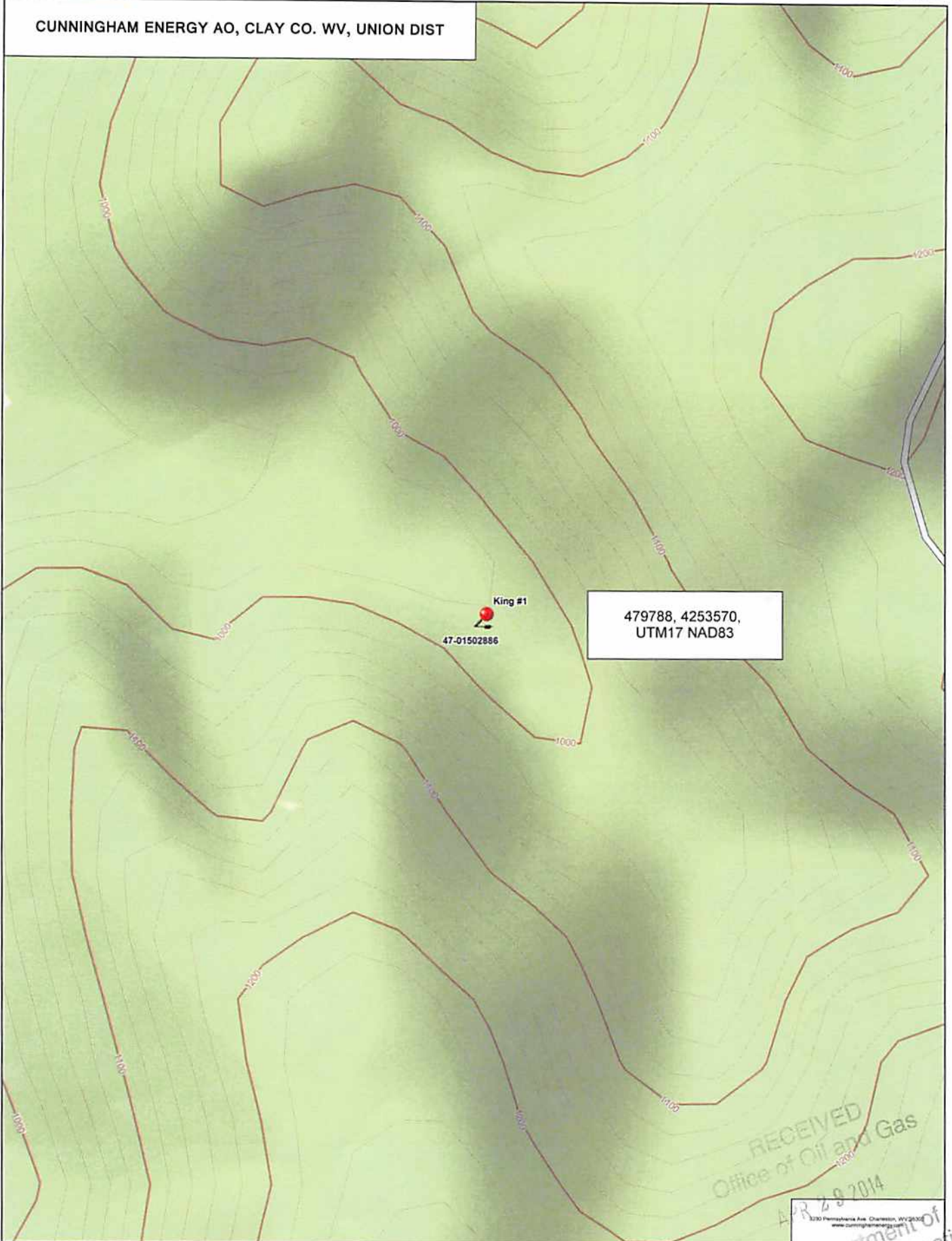
Plan Approved by: 

Comments: _____

Title: Inspector Date: 4/24/14
 Field Reviewed? () Yes (X) No

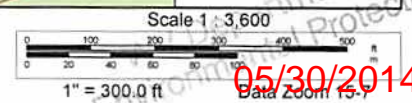
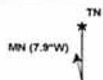
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CUNNINGHAM ENERGY AO, CLAY CO. WV, UNION DIST



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Department of Environmental Protection
3300 Pennsylvania Ave. Charleston, WV 25305
www.cunninghamenergy.com
Data Zoom: 15.7

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www.delorme.com



05/30/2014

1502886 P



Measurement
Measurement Result

05/30/2014

WW-7
8-30-06



West Virginia Department of Environmental Protection
Office of Oil and Gas

0 WELL LOCATION FORM: GPS

API: 47-0152886 *47-015-02886* WELL NO.: KING #1

FARM NAME: ROBERT TAYLOR

RESPONSIBLE PARTY NAME: RAVEN RIDGE ENERGY, LLC

COUNTY: CLAY DISTRICT: UNION

QUADRANGLE: ELKHURST 7.5'

SURFACE OWNER: ROBERT TAYLOR

ROYALTY OWNER: SANDRA HOBACK, ET AL

UTM GPS NORTHING: 4253570'

UTM GPS EASTING: 479788' GPS ELEVATION: 962'

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.


Signature

OFFICER
Title

5/12/2014
Date

Received

MAY 12 2014

Office of Oil and Gas
WV Dept. of Environmental Protection