



**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

July 02, 2014

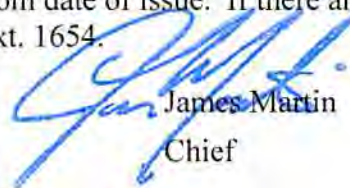
**WELL WORK PLUGGING PERMIT**

**Plugging**

This permit, API Well Number: 47-8101178, issued to EXCO RESOURCES (PA), 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: BEAVER COAL 303-C  
Farm Name: BEAVER COAL CO. LTD  
**API Well Number: 47-8101178**  
**Permit Type: Plugging**  
Date Issued: 07/02/2014

## 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.
4. This well is under a consent order and must be plugged within two years of the date of issuance of this permit.

810178P  
OK#242513  
\$10000

WW-4B  
Rev. 2/01

1) Date February 4, 2014  
2) Operator's Well No. Beaver Coal 303C  
3) API Well No. 47-051 - 01178

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 \_\_\_ or Underground storage \_\_\_) Deep \_\_\_ / Shallow X

5) Location: Elevation 2425' Watershed Tributary of Low Gap Branch  
District Slab Fork County Raleigh Quadrangle Lester 7.5

6) Well Operator EXCO Resources (PA), LLC 7) Designated Agent Diana Stamper/C.T. Corp Systems  
Address PO Box 8 Address 5400 D Big Tyler Road  
Ravenswood, WV 26164 Charleston, WV 25301

8) Oil and Gas Inspector to be notified Name Gary Kennedy  
Address PO Box 268  
Nimitz, WV 25978  
9) Plugging Contractor Name \_\_\_\_\_  
Address \_\_\_\_\_

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

- 1.) RIH check TD @ +/- 1250', RIH tubing to 1250'; load hole with 6% gel
- 2.) Rig up and pump <sup>70</sup>60 sks class A cement 1250' - <sup>240</sup>512' WOC 8 hrs
- 3.) RIH check Top of plug @ <sup>240</sup>512' - Add additional Class A cement as necessary to achieve TOC @ <sup>340</sup>512'
- 4.) RIH freepoint and cut 4 1/2" casing @ 195' - (bond log shows TOC @ 196') - pooh 4 1/2" casing
- 5.) RIH tubing to 200', rig up and pump 50 sks class A cement 200' to surface. Erect monument with API#.

Received

APR 17 2014

Office of Oil and Gas  
WV Dept. of Environmental Protection

OK gwm

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

Work order approved by inspector Gary Kennedy Date 2/28/14

07/04/2014



8101178P

WR-35

DATE: SEPTEMBER 29, 2000  
API #: 47-81-01178-C

State of West Virginia  
Division of Environmental Protection  
Section of Oil and Gas

Reviewed: ALB

Well Operator's Report of Well Work

Farm name: BEAVER COAL COMPANY Operator Well No.: 303-C

LOCATION: Elevation: 2425.00' Quadrangle: LESTER

District: SLAB FORK County: RALEIGH  
Latitude: 13,400' Feet South of 37 Deg. 45 Min. 00 Sec.  
Longitude 11,980' Feet West of 81 Deg. 17 Min. 30 Sec.

Company: ENERGY SEARCH INCORPORATED

	Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.
Address: 217 SECOND STREET PO BOX 2109	13 3/8"	22'	22'	
MARIETTA OH 45750-2109	7"	632'	632'	
Agent: FRANK R. ROTUNDA	4 1/2"	1300'	1300'	70 SKS
Inspector: RODNEY DILLON				
Date Permit Issued: SEPTEMBER 15, 1999				
Date Well Work Commenced: MAY 24, 2000				
Date Well Work Completed: JUNE 01, 2000				
Verbal Plugging:				
Date Permission granted on:				
Rotary XX Cable Rig				
Total Depth (feet): 1320'				
Fresh Water Depth (ft.): 990' 370'				
Salt Water Depth (ft.):				

RECEIVED  
Division of Oil & Gas  
Permitting  
NOV 13 2000  
WV Division of  
Environmental Protection

Is coal being mined in area (YY)?  
Coal Depths (ft.): 205'-715', 915'-919'  
590'-592', 370'-373', 15'-17'

OPEN FLOW DATA

Producing formation \_\_\_\_\_ Pay zone depth (ft) \_\_\_\_\_  
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 pressure) after \_\_\_\_\_ Hours

Second producing formation \_\_\_\_\_ Pay zone depth (ft) \_\_\_\_\_  
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 pressure) after \_\_\_\_\_ Hours

NOTE: ON BACK OF THIS FORM PUT THE FOLLOWING: 1). DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2). THE WELL LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE.

Signed: \_\_\_\_\_  
DISTRICT EXECUTIVE VICE PRESIDENT

RAL 1178C

07/04/2014

BECKLEY COAL 712'-716'

FIRE CREEK COAL 916'-919' 925'-927'

POCA #3 1036'-1040'  
1069'-1073'



WW-4A  
Revised 6-07

1) Date: February 4, 2014  
2) Operator's Well Number  
Beaver Coal 303C  
3) API Well No.: 47 - 081 - 01178

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

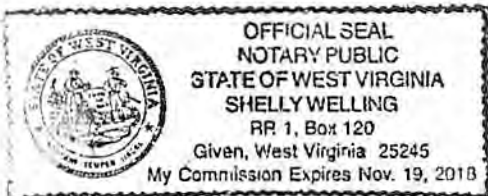
4) Surface Owner(s) to be served:	5) (a) Coal Operator
(a) Name <u>Beaver Coal LTD</u> ✓	Name <u>Beaver Coal Co</u> ✓
Address <u>115 1/2 South Kanawha Street</u>	Address _____
<u>Bockley, WV 25801</u>	_____
(b) Name _____	(b) Coal Owner(s) with Declaration
Address _____	Name <u>Beaver Coal Company, LTD</u> ✓
_____	Address _____
(c) Name _____	Name _____
Address _____	Address _____
6) Inspector <u>Gary Kennedy</u>	(c) Coal Lessee with Declaration
Address <u>PO Box 268</u>	Name <u>Pine Valley Coal c/o Anker WV Mining Co</u>
<u>Nimitz, WV 25978</u>	Address <u>2708 Cranberry Square</u> ✓
Telephone <u>304-382-8402</u>	<u>Morgantown, WV 26508</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 EXCO Resources (PA), LLC  
 By: Rick Green *R. Green* **Received**  
 Its: Construction Specialist I  
 Address PO Box 8  
Ravenswood, WV 26164  
 Telephone 304-273-5371 **APR 21 2014**

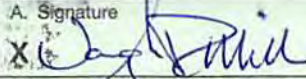
Office of Oil and Gas  
WV Dept. of Environmental Protection

Subscribed and sworn before me this 19<sup>th</sup> day of Feb 2014  
Shelly Welling Notary Public  
My Commission Expires 11/19/18

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).


BC 303C  
8101178P

SENDER: COMPLETE THIS SECTION	COMPLETE THIS SECTION ON DELIVERY	
<ul style="list-style-type: none"> <li>Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.</li> <li>Print your name and address on the reverse so that we can return the card to you.</li> <li>Attach this card to the back of the mailpiece, or on the front if space permits.</li> </ul>	<p>A. Signature   <input type="checkbox"/> Agent  <input type="checkbox"/> Addressee</p>	
<p>1. Article Addressed to:</p> <p style="text-align: center;">PINE VALLEY COAL  c/o ANKER WV MINING CO  2708 CRANBERRY SQUARE  MORGANTOWN WV 26508</p>	<p>B. Received by (Printed Name)  <u>VAUGHN R. MILLER</u></p>	<p>C. Date of Delivery  <u>2-24-14</u></p>
	<p>D. Is delivery address different from item 1? <input type="checkbox"/> Yes  <input checked="" type="checkbox"/> No  If YES, enter delivery address below:</p>	
<p>2. Article Number  (Transfer from service label)</p> <p style="text-align: center;">7006 2760 0005 3354 3229</p>	<p>3. Service Type</p> <input checked="" type="checkbox"/> Certified Mail <input type="checkbox"/> Express Mail <input type="checkbox"/> Registered <input checked="" type="checkbox"/> Return Receipt for Merchandise <input type="checkbox"/> Insured Mail <input type="checkbox"/> C.O.D.	
	<p>4. Restricted Delivery? (Extra Fee)    <input type="checkbox"/> Yes</p>	
<p>PS Form 3811, February 2004      Domestic Return Receipt      102595-02-M-1540</p>		

**U.S. Postal Service™**  
**CERTIFIED MAIL™ RECEIPT**  
*(Domestic Mail Only; No Insurance Coverage Provided)*

For delivery information visit our website at [www.usps.com](http://www.usps.com)

OFFICIAL USE

Postage	\$ .90	
Certified Fee	3.30	
Return Receipt Fee (Endorsement Required)	2.70	
Restricted Delivery Fee (Endorsement Required)		
<b>Total Postage &amp; Fees</b>	<b>\$ 6.90</b>	

Sent To **PINE VALLEY COAL**

Street, Apt. 1 or PO Box N **c/o ANKER WV MINING CO**

City, State, Z **2708 CRANBERRY SQUARE**

**MORGANTOWN WV 26508**

PS Form 3800, August 2006

Received

APR 17 2014

Office of Oil and Gas  
WV Dept. of Environmental Protection

07/04/2014



81 01178 P

### SURFACE OWNER WAIVER

Operator's Well  
Number

Beaver Coal 303C

#### INSTRUCTIONS TO SURFACE OWNERS NAMED ON PAGE WW4-A

The well operator named on page WW-4A is applying for a permit from the State to plug and abandon a well. (Note: If the surface tract is owned by more than three persons, then these materials were served on you because your name appeared on the Sheriff's tax ticket on the land or because you actually occupy the surface tract. In either case, you may be the only owner who will actually receive these materials.) See Chapter 22 of the West Virginia Code. Well work permits are valid for 24 months. If you do not own any interest in the surface tract, please forward these materials to the true owner immediately if you know who it is. Also, please notify the well operator and the Office of Oil and Gas.

**NOTE: YOU ARE NOT REQUIRED TO FILE ANY COMMENT.**  
**WHERE TO FILE COMMENTS AND OBTAIN ADDITIONAL INFORMATION:**

Chief, Office of Oil and Gas  
Department of Environmental Protection  
601 57<sup>th</sup> St. SE  
Charleston, WV 25304  
(304) 926-0450

**Time Limits and methods for filing comments.** The law requires these materials to be served on or before the date the operator files his Application. You have **FIVE (5) DAYS** after the filing date to file your comments. Comments must be filed in person or received in the mail by the Chief's office by the time stated above. You may call the Chief's office to be sure of the date. Check with your postmaster to ensure adequate delivery time or to arrange special expedited handling. If you have been contacted by the well operator and you have signed a "voluntary statement of no objection" to the planned work described in these materials, then the permit may be issued at any time.

**Comments must be in writing.** Your comments must include your name, address and telephone number, the well operator's name and well number and the approximate location of the proposed well site including district and county from the application. You may add other documents, such as sketches, maps or photographs to support your comments.

The Chief has the power to deny or condition a well work permit based on comments on the following grounds:

- 1) The proposed well work will constitute a hazard to the safety of persons.
- 2) The soil erosion and sediment control plan is not adequate or effective;
- 3) Damage would occur to publicly owned lands or resources;
- 4) The proposed well work fails to protect fresh water sources or supplies;
- 5) The applicant has committed a substantial violation of a previous permit or a substantial violation of one or more of the rules promulgated under Chapter 22, and has failed to abate or seek review of the violation...".

Received  
APR 17 2014

If you want a copy of the permit as it is issued or a copy of the order denying the permit, you should request a copy from the Chief.

Office of Oil and Gas  
WV Department of Environmental Protection

#### VOLUNTARY STATEMENT OF NO OBJECTION

I hereby state that I have read the instructions to surface owners and that I have received copies of a Notice and Application For A Permit To Plug And Abandon on Forms WW-4A and WW-4B, and a survey plat.

I further state that I have no objection to the planned work described in these materials, and I have no objection to a permit being issued on those materials.

FOR EXECUTION BY A NATURAL PERSON  
ETC.

FOR EXECUTION BY A CORPORATION,

_____	Date _____	Name <u>Beaver Coal Co. LTD</u>	
Signature		By <u>R. Woodrow DUBA</u>	
		Its <u>General Manager</u>	Date <u>2/27/14</u>
		Signature <u>R. Woodrow DUBA</u>	Date <u>07/04/2014</u>



WW-4B

API No. 47-081-01178 P  
Farm Name Beaver Coal  
Well No. 303C

**INSTRUCTIONS TO COAL OPERATORS  
OWNERS AND LESSEE**

The well operator named on the obverse side of WW-4 (B) is about to abandon the well described in the enclosed materials and will commence the work of plugging and abandoning said well on the date the inspector is notified. Which date shall not be less than five days after the day on which this notice and application so mailed is received, or in due course should be received by the Department of Environmental Protection Office of Oil & Gas.

This notice and application is given to you in order that your respective representatives may be present at the plugging and filling of said well. You are further notified that whether you are represented or not the operator will proceed to plug and fill said well in the manner required by Section 24, Article 6, Chapter 22 of the Code and given in detail on obverse side of this application.

NOTE: If you wish this well to be plugged according to 22-6-24(d) then as per Regulation 35CSR4-13.9 you must complete and return to this office on form OB-16 "Request by Coal Operator, Owner, or Lessee for plugging" prior to the issuance of this plugging permit.

**WAIVER**

The undersigned coal operator  / owner  / lessee  / of the coal under this well location has examined this proposed plugging work order. The undersigned has no objection to the work proposed to be done at this location, provided, the well operator has complied with all applicable requirements of the West Virginia Code and the governing regulations.

Date: 2/27/14

Beaver Coal Co., LTD  
By: R. Woodrow Dula  
Its GENERAL MANAGER  
R. Woodrow Dula

Received

APR 17 2014

Office of Oil and Gas  
West Virginia Department of Environmental Protection

07/04/2014

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 EXCO Resources (PA), LLC OP Code 307860

Watershed Tributary of Low Gap Branch Quadrangle Lester 7.5

Elevation 2425' County Raleigh District Slab Fork

Description of anticipated Pit Waste: cement, water, gel

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

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 pit to be solidified with cement)

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.

Received

Company Official Signature R. Green

Company Official (Typed Name) Rick Green APR 17 2014

Company Official Title Construction Specialist I

Office of Oil and Gas  
WV Dept. of Environmental Protection

Subscribed and sworn before me this 19th day of Feb, 2014

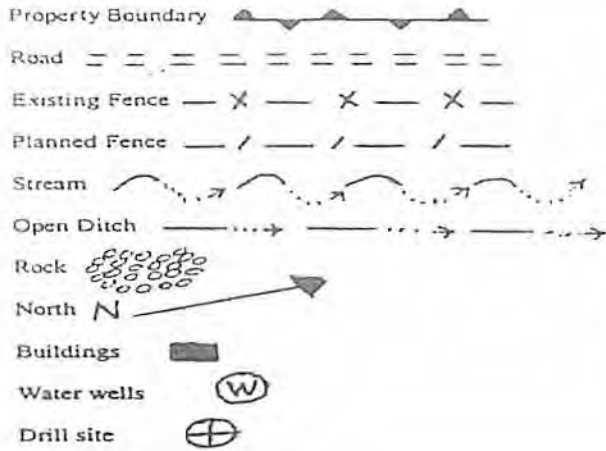
Shelley Wellings Notary Public

My commission expires 4/19/18

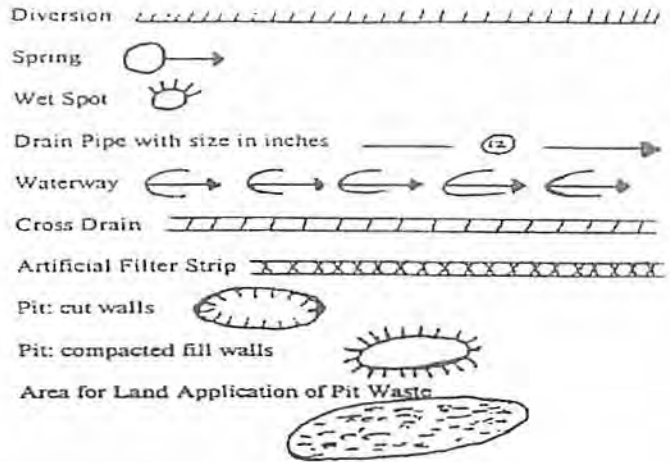


07/04/2014





LEGEND



Proposed Revegetation Treatment: Acres Disturbed >1 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 2 Tons/acre

Seed Mixtures

Seed Type	Area I	lbs/acre	Seed Type	Area II	lbs/acre
KY 31 Fescue		40	same as Area I		
Alsike Clover		5			
Annual Rye		16			

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

Photocopied section of involved 7.5' topographic sheet.

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APR 17 2014

Plan Approved by: [Signature]

Office of Oil and Gas  
WV Dept. of Environmental Protection

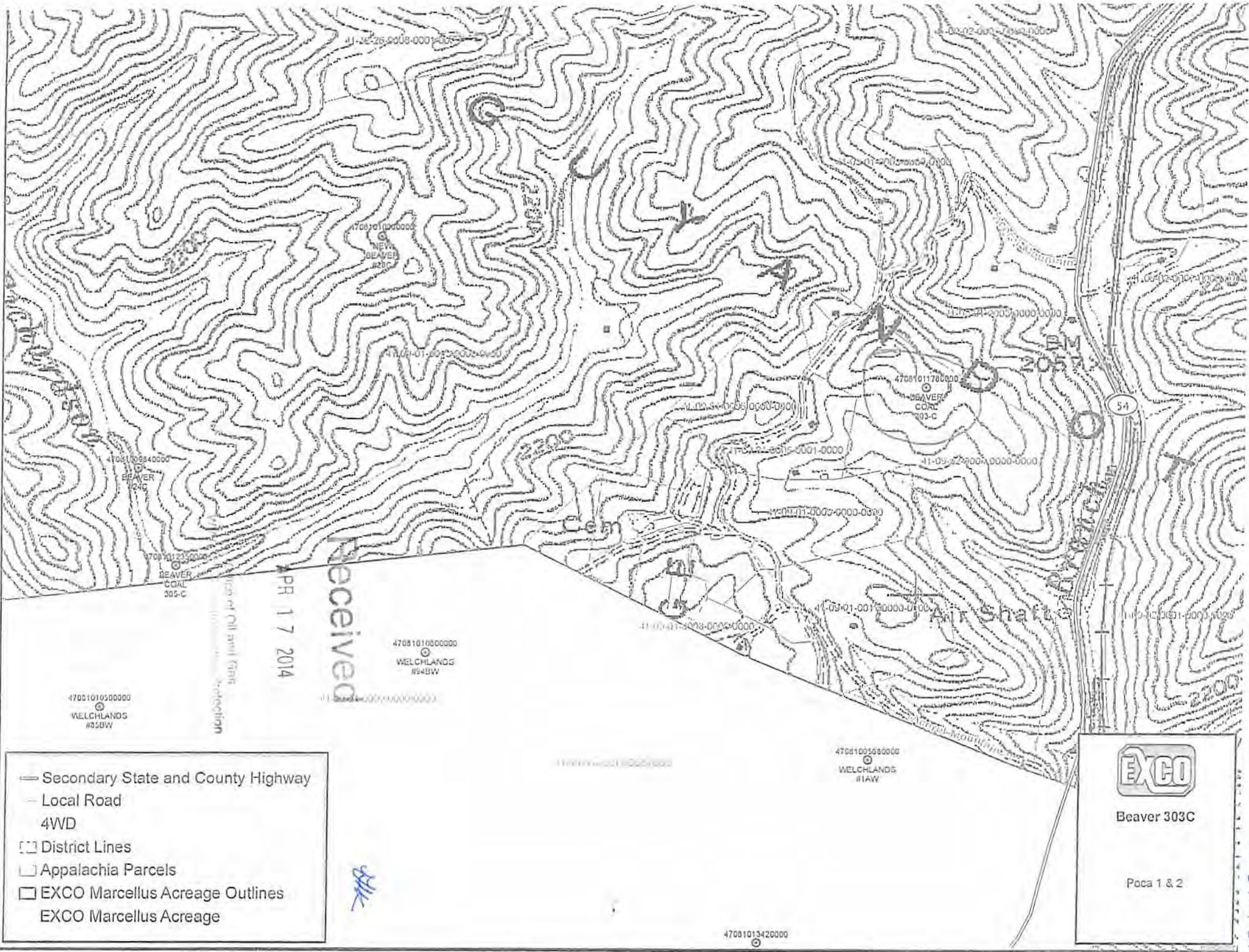
Comments: \_\_\_\_\_

Title: Inspector

Date: 2/29/14

Field Reviewed? ( ) Yes ( ) No





PR 17 2014

Received

*SK*

- Secondary State and County Highway
- Local Road
- 4WD
- District Lines
- Appalachia Parcels
- EXCO Marcellus Acreage Outlines
- EXCO Marcellus Acreage



**Beaver 303C**

Poca 1 & 2

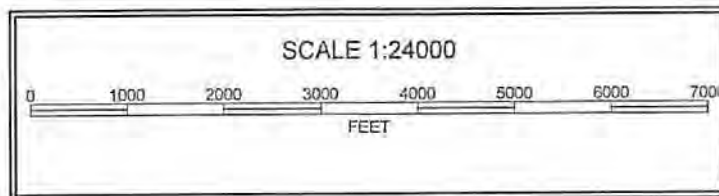
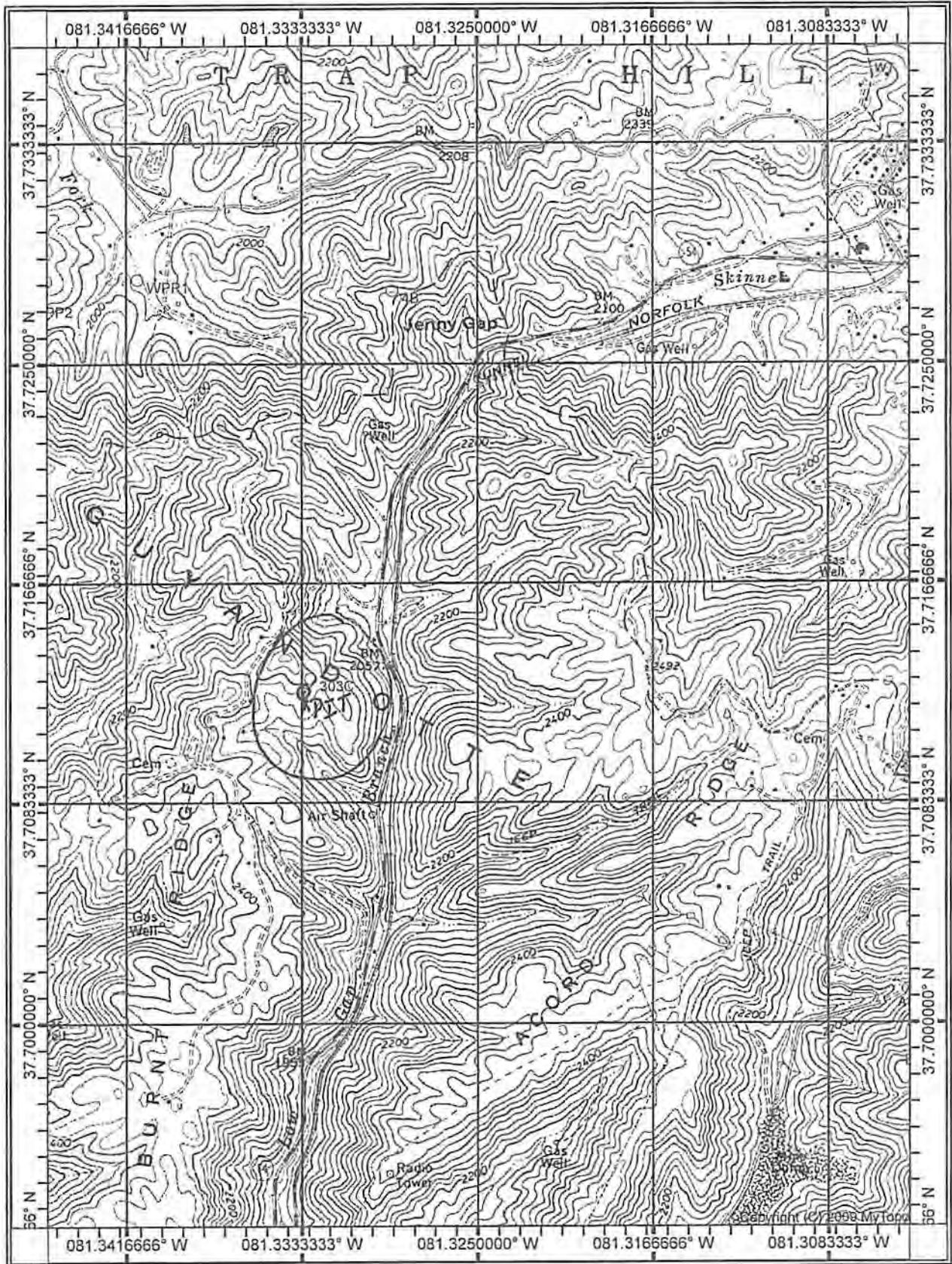
810117&P







81-01178-P



*the*  
Received  
07/04/2014  
APR 17 2014



WW-7  
8-30-06



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

API: 47-081-01178 WELL NO.: Beaver Coal 303-C

FARM NAME: Beaver Coal Company

RESPONSIBLE PARTY NAME: Exco Resources PA LLC

COUNTY: Raleigh DISTRICT: Slab Fork

QUADRANGLE: Lester 7.5

SURFACE OWNER: Beaver Coal Company

ROYALTY OWNER: Beaver Coal Company

UTM GPS NORTHING: 4174070.87

UTM GPS EASTING: 470672.07 GPS ELEVATION: 739.14 2425 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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APR 17 2014

Office of Oil and Gas  
West Virginia Department of 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.

[Signature]  
Signature

Construction Specialist 1-21-14  
Title Date

07/04/2014