



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

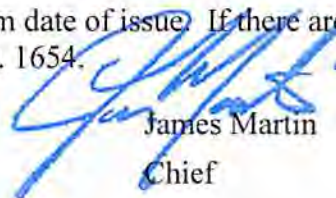
WELL WORK PLUGGING PERMIT

Plugging

This permit, API Well Number: 47-8101235, 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: 305-C
Farm Name: BEAVER COAL CO.
API Well Number: 47-8101235
Permit Type: Plugging
Date Issued: 07/02/2014

Promoting a healthy environment.

07/04/2014

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

WR-35

DATE: 8/20/2002
API #: 47-8101235-C

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

Well Operator's Report of Well Work

Farm name: Beaver Coal Co. Operator Well No.: 305-C

LOCATION: Elevation: GL 2000' Quadrangle: Lester 7.5'

District: Slab Fork County: _____
Latitude: 14,920 Feet South of 37 Deg. 45 Min. 00 Sec.
Longitude 4,880 Feet West of 81 Deg. 20 Min. 00 Sec.

Company: Energy Search, Inc.

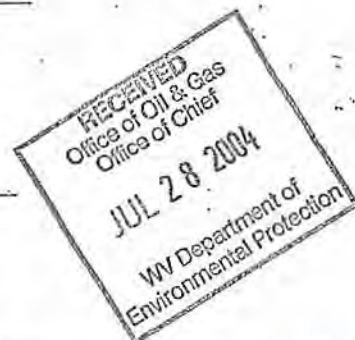
	Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.
Address: <u>Rt 11, Box 41 Products Lane</u> <u>Marietta, OH 45750</u>	<u>13 3/8"</u>	<u>40'</u>	<u>40'</u>	
Agent: <u>Dave Perkinson</u>	<u>9 5/8"</u>	<u>313'</u>	<u>313'</u>	<u>150 sks.</u>
Inspector: <u>Rick Campbell</u>				
Date Permit Issued: <u>6/18/2001</u>	<u>7"</u>	<u>554'</u>	<u>554'</u>	<u>150 sks</u>
Date Well Work Commenced: <u>6/20/2001</u>				
Date Well Work Completed: <u>6/26/2001</u>				
Verbal Plugging:				
Date Permission granted on:				
Rotary <u>XX</u> Cable <u>Rig</u>				
Total Depth (feet): <u>1025</u>				
Fresh Water Depth (ft.): <u>165ft. 7" stream</u>				
Salt Water Depth (ft.): <u>n/a</u>				
Is coal being mined in area (N/Y)? <u>N</u>				
Coal Depths (ft.): _____				

OPEN FLOW DATA

Well has not been completed

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: COG Resources Inc
By: Dave Perkinson
Date: 8/20/02

APR 17 2014

Formation Tops:

KB 2007

Poca #3 715-718

Poca #2 747-749 & 762-764

8101235A

WW-4A
Revised 6-07

1) Date: February 5, 2014
2) Operator's Well Number
Beaver Coal 305C
3) API Well No.: 47 - 081 - 01235

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

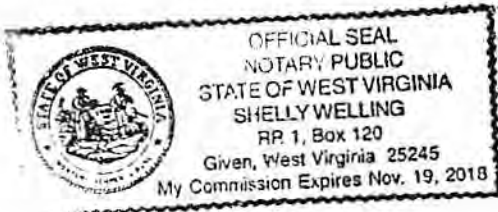
4) Surface Owner(s) to be served:	5) (a) Coal Operator
(a) Name <u>Beaver Coal Co</u>	Name <u>Beaver Coal Co</u>
Address <u>115 1/2 B South Kanawha St</u> <u>Beckley, WV 25802</u>	Address <u>115 1/2 B South Kanawha St</u> <u>Beckley, WV 25802</u>
(b) Name _____	(b) Coal Owner(s) with Declaration
Address _____	Name _____
_____	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>Alpha Natural Resources c/o David Hickman</u>
<u>Nimitz, WV 25978</u>	Address <u>208 Business Street</u>
Telephone <u>304-382-8402</u>	<u>Beckley, WV 25801</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
 Title: Construction Specialist I
 Address: PO Box 8
Ravenswood, WV 26164
 Telephone: 304-273-5371

Received

MAY - 6 2014

Subscribed and sworn before me this 21 day of April 2014
Shelly Welling Notary Public
 My Commission Expires Nov 19, 2018

Office of Oil and Gas
WV Dept. of Environmental Protection

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.

07/04/2014

WW-4B

API No.	<u>47-081-01235 P</u>
Farm Name	<u>Beaver Coal</u>
Well No.	<u>305C</u>

**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

81012350

SURFACE OWNER WAIVER

Operator's Well
Number

Beaver Coal 305C

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 57th 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

Office of Oil and Gas
WV Dept. of Environmental Protection

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.

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 _____ Date 07/04/2014
R. Woodrow Duba

BC 305C
8101235P

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

For delivery information visit our website at www.usps.com

OFFICIAL USE

7006 2760 0005 3354 3311

Postage	\$.90
Certified Fee	3.30
Return Receipt Fee (Endorsement Required)	2.70
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	\$6.90



Sent To: **ALPHA NATURAL RESOURCES**
c/o David Hickman
208 BUSINESS STREET
BECKLEY, WV 25801

PS Form 3811

SENDER: COMPLETE THIS SECTION	COMPLETE THIS SECTION ON DELIVERY
<ul style="list-style-type: none"> Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired. Print your name and address on the reverse so that we can return the card to you. Attach this card to the back of the mailpiece, or on the front if space permits. 	<p>A. Signature <input checked="" type="checkbox"/> Agent <input type="checkbox"/> Addressee</p> <p><i>Katherine Farnum</i></p> <p>B. Received by (Printed Name) <input type="checkbox"/> C. Date of Delivery</p> <p><i>Katherine Farnum</i> <i>4.22.14</i></p> <p>D. Is delivery address different from item 1? <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>If YES, enter delivery address below:</p>
<p>1. Article Addressed to:</p> <p>ALPHA NATURAL RESOURCES c/o David Hickman 208 BUSINESS STREET BECKLEY, WV 25801</p>	<p>3. Service Type</p> <p><input type="checkbox"/> Certified Mail <input type="checkbox"/> Express Mail</p> <p><input type="checkbox"/> Registered <input type="checkbox"/> Return Receipt for Merchandise</p> <p><input type="checkbox"/> Insured Mail <input type="checkbox"/> C.O.D.</p>
<p>2. Article Number (Transfer from service label)</p> <p>7006 2760 0005 3354 3311</p>	<p>4. Restricted Delivery? (Extra Fee) <input type="checkbox"/> Yes</p>

PS Form 3811, February 2004

Domestic Return Receipt

102595-02-M-1540

Received

MAY - 6 2014

Office of Oil and Gas
WV Dept. 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 Richardson Branch Quadrangle Lester 7.5

Elevation 2000' County Raleigh District Slab Fork

Description of anticipated Pit Waste: cement, water, gel

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

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 solids will be solidified with cement in pit)

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 Rick Green

Company Official (Typed Name) Rick Green

Company Official Title Construction Specialist I

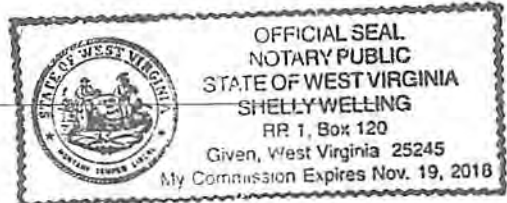
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APR 17 2014

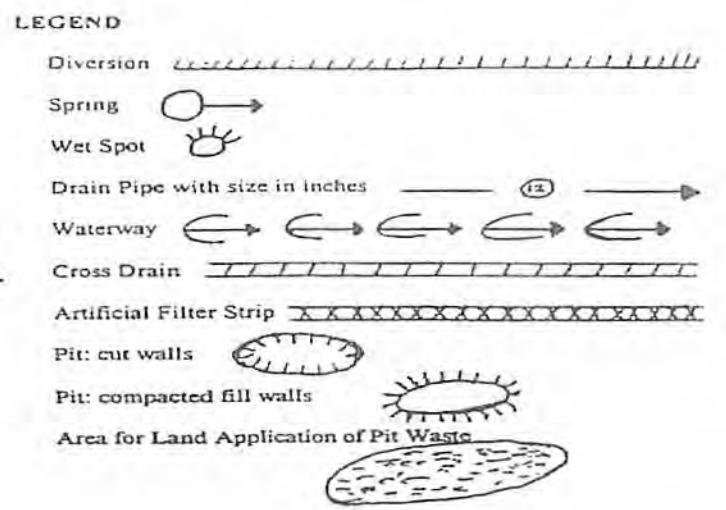
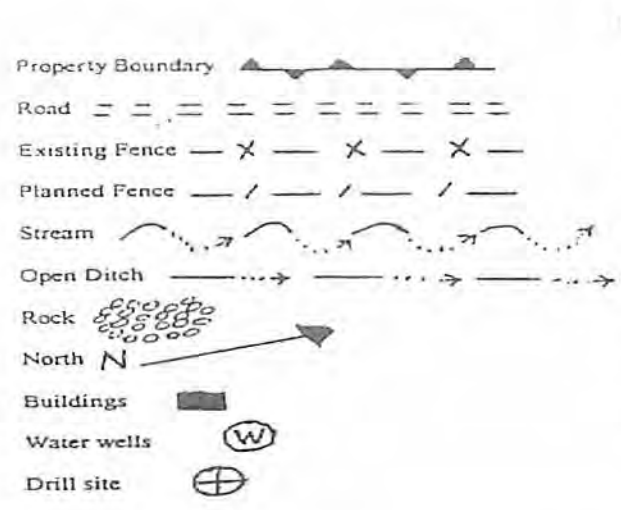
Subscribed and sworn before me this 19th day of Feb, 20 14 Office of Oil and Gas
WV Dept. of Environmental Protection

Shelly Welling Notary Public

My commission expires 11/19/18



07/04/2014



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) 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		15			

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

Photocopied section of involved 7.5' topographic sheet.

Received

APR 17 2014

Plan Approved by: [Signature]

Comments: _____

Office of Oil and Gas
WV Dept. of Environmental Protection

Title: Inspector Date: 2/28/14

Field Reviewed? () Yes () No

8101235 P

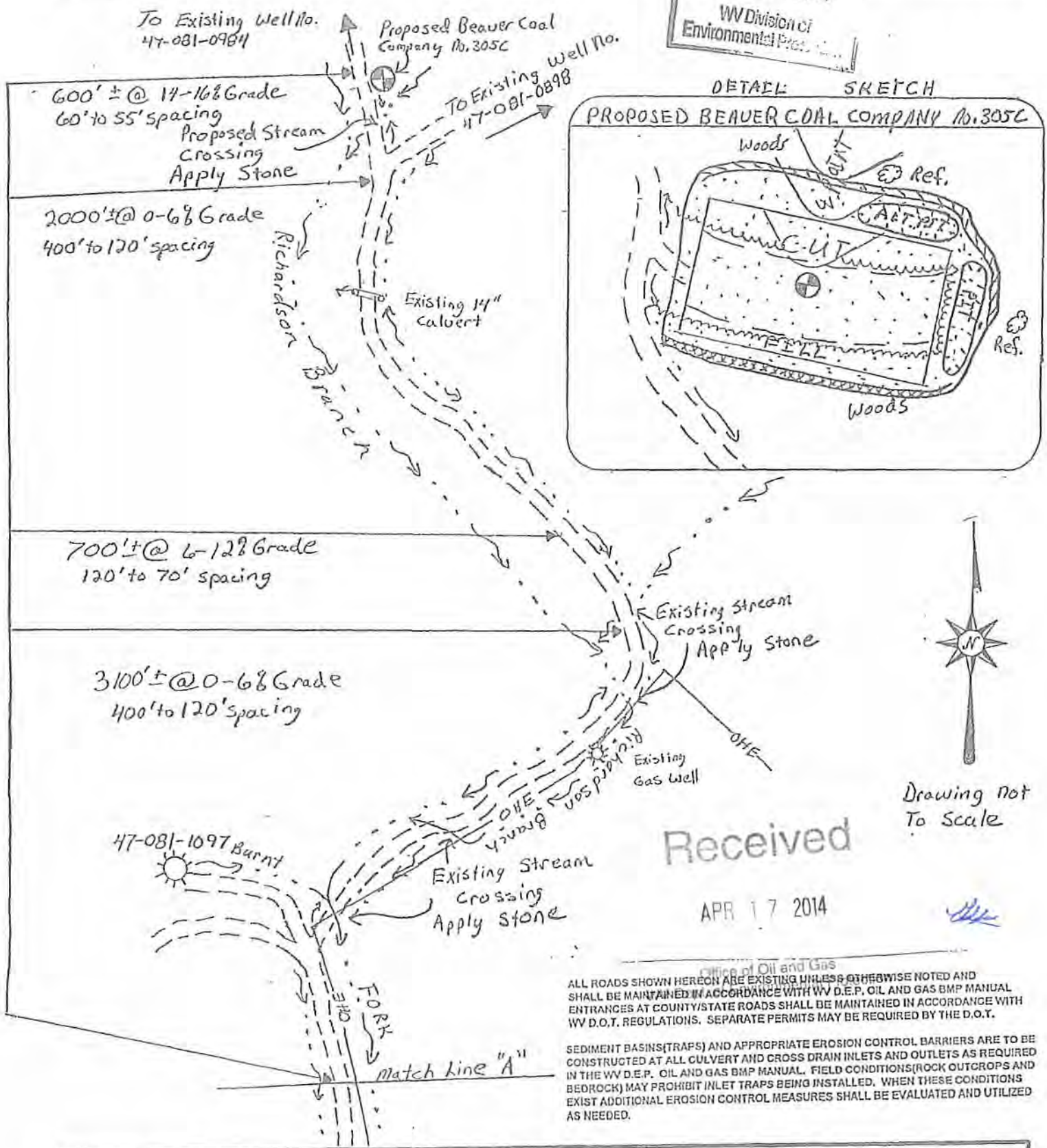
81-01235C

Form WW-9

BEAVER LEASE WELL NO. 305-C

RECEIVED
Office of Oil and Gas
JUN 19 2007
WV Division of
Environmental Protection

page 6 of 8

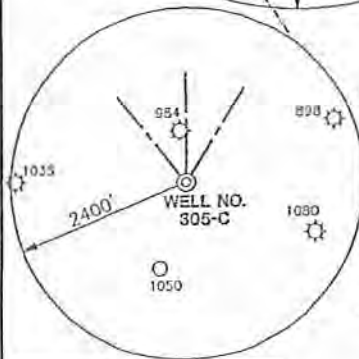
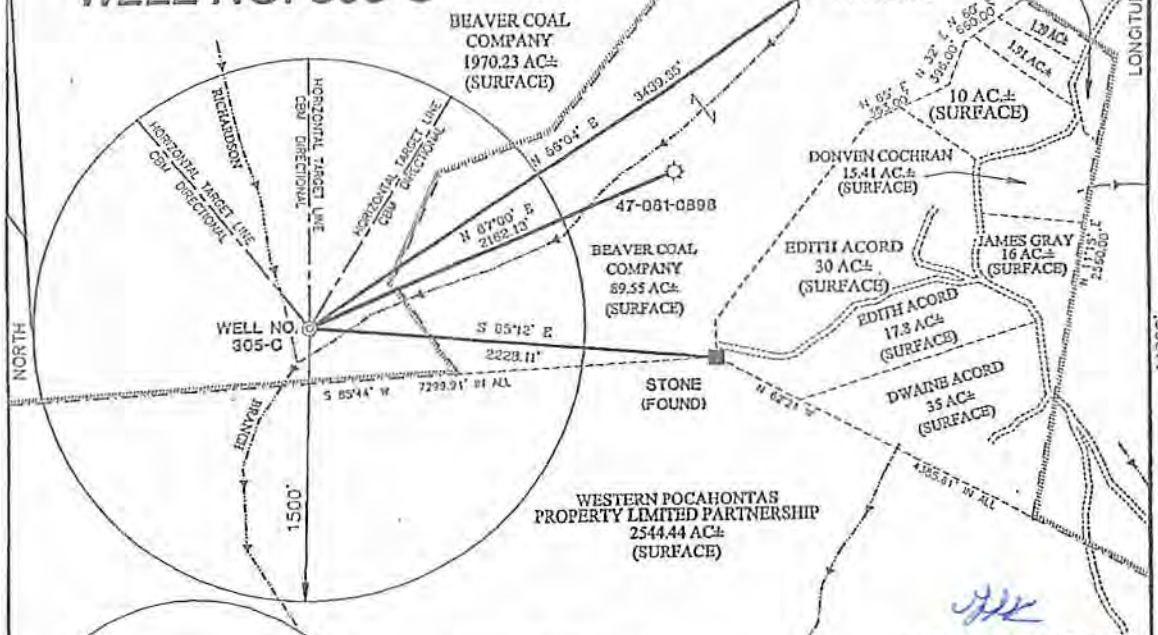


SLS SMITH LAND SURVEYING, INC.
P.O. BOX 150, GLENVILLE, WV 26351

Phone (304) 462-5656 or 462-5634
DRAWN BY J. N. W. DATE 5/23/01 FILE 0671042014

BEAVER COAL COMPANY LEASE

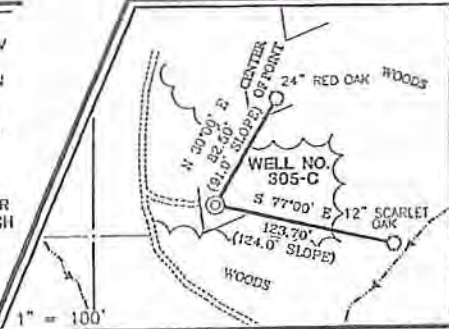
2180.63 ACRES± WELL NO. 305-C



NOTES ON SURVEY

1. TIES TO WELLS AND CORNERS ARE BASED ON STATE PLANE GRID NORTH WY SOUTH ZONE NAD '27.
2. TIES TO REFERENCES ARE BASED ON MAGNETIC NORTH 5-15-01.
3. LEASE BOUNDARY SHOWN HEREON TAKEN FROM A PLAT DATED 11-14-61 ENTITLED "MAP OF TRACTS FOR 2180.63 ACRES".
4. SURFACE OWNER AND ADJOINER INFORMATION TAKEN FROM THE ASSESSOR AND COUNTY CLERK RECORDS OF RALEIGH COUNTY IN MAY, 2001.
5. WELL LAT./LONG. ESTABLISHED BY DGPS(SUBMETER MAPPING GRADE).

REFERENCES



I THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAT 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 DEPARTMENT OF ENVIRONMENTAL PROTECTION.



P.S. Gregory A. Smith
677

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS.
DATE MAY 23, 2001
OPERATORS WELL NO. 305-C
API WELL NO. 47-81-01235C
STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1 / 2500 FILE NO. 3639P305CM(105-39)
PROVEN SOURCE OF ELEVATION BENCH MARK ELEVATION 2057'
SCALE 1"=800'

STATE OF WEST VIRGINIA
DIVISION OF ENVIRONMENTAL PROTECTION
OFFICE OF OIL AND GAS

WELL TYPE : OIL ___ GAS ___ LIQUID INJECTION ___ WASTE DISPOSAL ___ IF "GAS" PRODUCTION ___ STORAGE ___ DEEP ___ SHALLOW ___ X

LOCATION :
ELEVATION 2000' WATERSHED RICHARDSON BRANCH
DISTRICT SLAB FORK COUNTY RALEIGH QUADRA'GLE LESTER 7.5'
SURFACE OWNER BEAVER COAL COMPANY ACREAGE 1970.23±
ROYALTY OWNER BEAVER COAL COMPANY LEASE ACREAGE 2180.63±
PROPOSED WORK :
DRILL ___ X CONVERT ___ DRILL DEEPER ___ REDRILL ___ FRACTURE OR STIMULATE ___ X PLUG OFF OLD
FORMATION ___ PERFORATE NEW FORMATION ___ PLUG AND ABANDON ___ CLEAN OUT AND REPLUG ___ OTHER ___
PHYSICAL CHANGE IN WELL (SPECIFY) ___ TARGET FORMATION POCAHONTAS NO. 3
ESTIMATED DEPTH 1300'

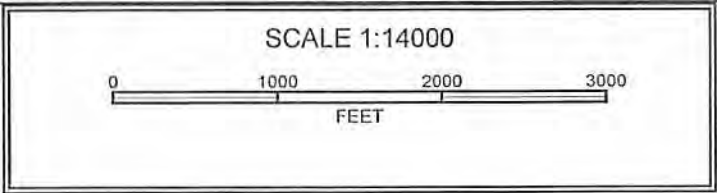
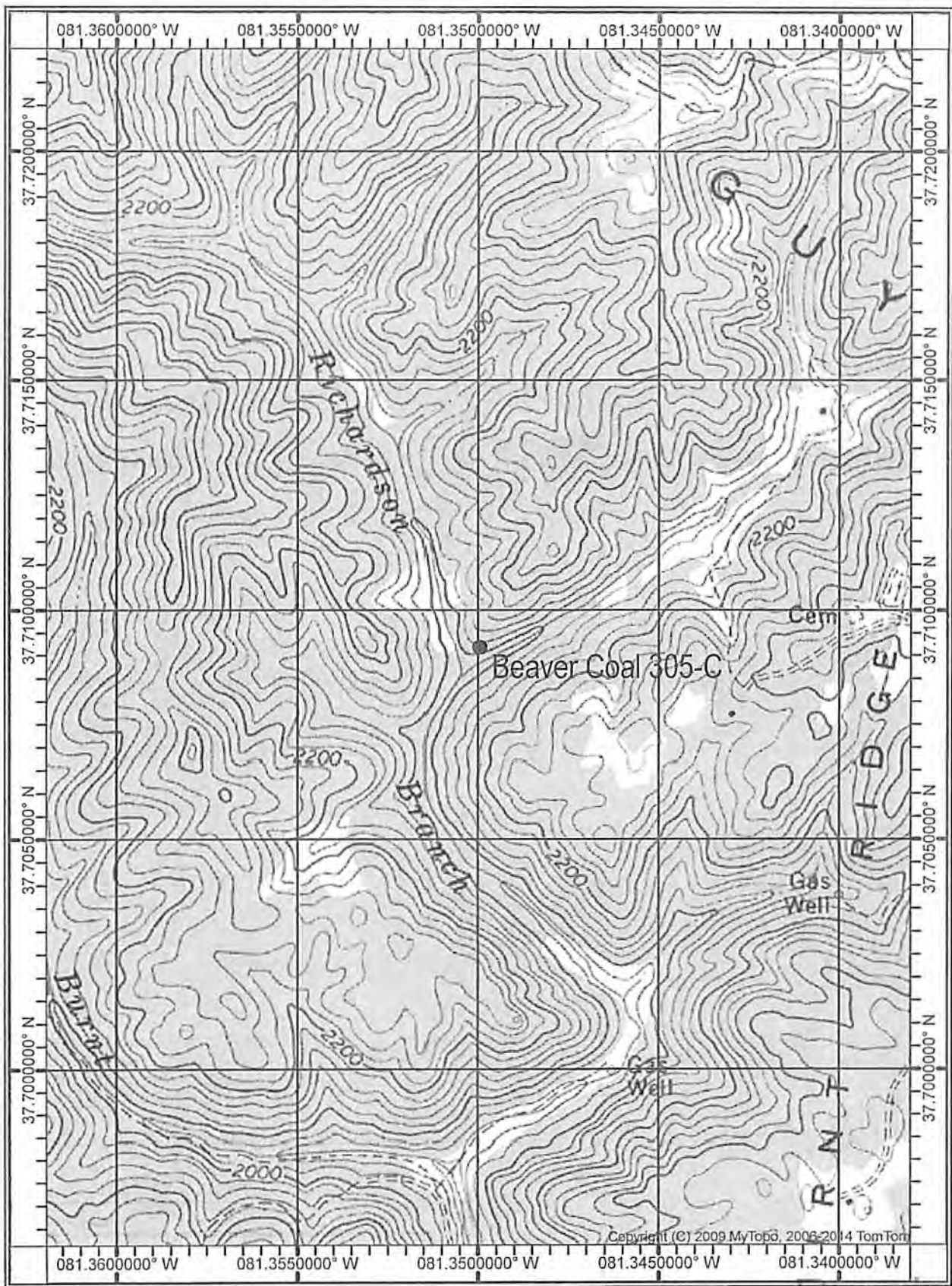
WELL OPERATOR ENERGY SEARCH, INC. DESIGNATED AGENT FRANK ROTUNDA
ADDRESS 280 SANDERS W. BLVD. SUITE 200 ADDRESS 1608 GREENMONT HILLS DR
KNOXVILLE, TN 37922 VIENNA, WV 26103

Received

APR 7 2014

07/04/2014

8101235P



Received

APR 17 2014

07/04/2014

Office of Oil and Gas
WV Dept. of Environmental Protection

WW-7
8-30-06



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

API: 47-081-01235 WELL NO.: 305-C

FARM NAME: Beaver Coal

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: 4173607.95

UTM GPS EASTING: 469154.83 GPS ELEVATION: 2005'

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]
Signature

Construction Specialist 1-21-14
Title

Date

Received

APR 17 2014

Office of Oil and Gas
WV Dept. of Environmental Protection

[Signature]