



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

September 20, 2013

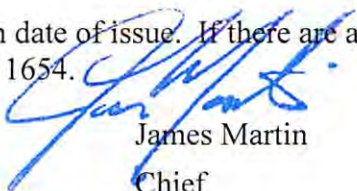
WELL WORK PLUGGING PERMIT

Plugging

This permit, API Well Number: 47-6700336, 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: 7
Farm Name: FEDERAL COAL CO.
API Well Number: 47-6700336
Permit Type: Plugging
Date Issued: 09/20/2013

Promoting a healthy environment.

09/20/2013

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.

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 1400.37' Watershed Twenty Mile Creek
District Jefferson County Nicolas Quadrangle Clay

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 Name Ed Gainer
Address PO Box 821
Spencer, WV 25276
9) Plugging Contractor Name Steve Duckworth Well Services
Address P.O. Box 6871
Charleston, WV 25362

10) Work Order: The work order for the manner of plugging this well is as follows:
Cement Plug #1 will be set from 2410'-2260'. Plug to be 12 sacks of Type 1 Cement.
Cement Plug #2 will be set from ^{2115' - 2015'} 2065'-1965'. Plug to be 33 sacks of Type 1 Cement.
Cement Plug #3 will be set from 1320'-1220'. Plug to be 33 sacks of Type 1 Cement.
Cement Plug #4 will be set from ^{264'} 230' to surface. Plug to be 68 sacks of Type 1 Cement.
Cut and pull approximately 2,065' of 4.5" casing.
6% gel will be pumped between all plugs.

Erect monument with API number

Plug #2 needs to be across casing cut.

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

Work order approved by inspector 

RECEIVED
Office of Oil and Gas
Date 7/30/13
SEP 17 2013

WV Department of
Environmental Protection



RECEIVED

LOG

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS WELLS DIVISION

- Rotary
- Spudder
- Cable Tools
- Storage

WELL RECORD

Oil or Gas Well Gas
(KIND)

Quadrangle Clay
Permit No. Nic-336

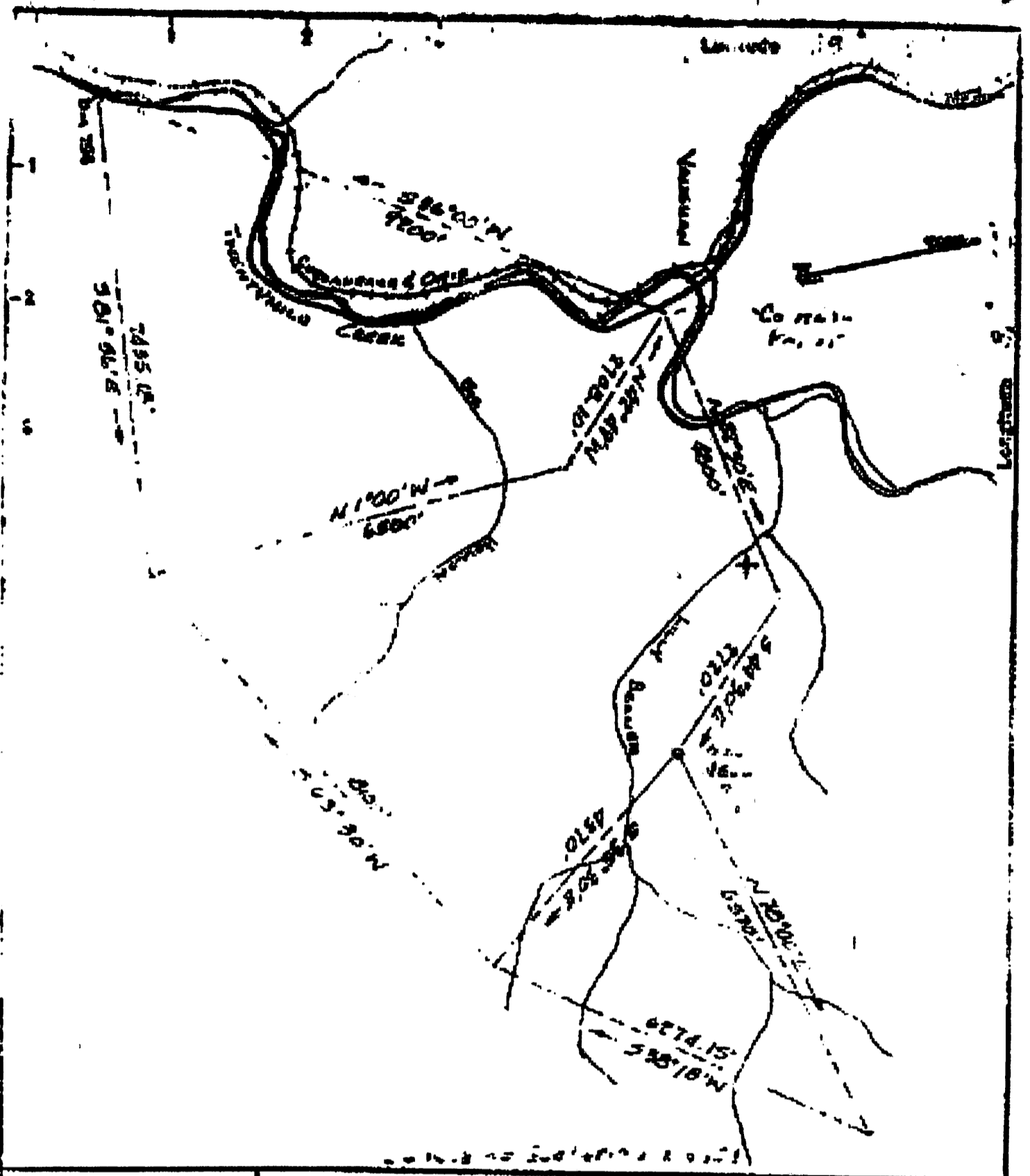
Company <u>Texas International Petroleum Corp.</u> Address <u>706 One Commerce Square, Charleston, W. Va.</u> Farm <u>Federal Coal Company</u> Acres <u>2200</u> Location (waters) <u>Twenty-Mile Creek</u> Well No. <u>7</u> Elev. <u>1400.37</u> District <u>Jefferson</u> County <u>Nicholas</u> The surface of tract is owned in fee by <u>Federal Coal Co.</u> Address <u>Charleston, W. Va.</u> Mineral rights are owned by <u>Federal Coal Co.</u> Address _____ Drilling commenced <u>11/21/74</u> Drilling completed <u>12/3/74</u> Date Shot From _____ To _____ With _____ Open Flow <u>/10ths</u> Water in _____ Inch <u>/10ths</u> Merc. in _____ Inch Volume _____ Cu. Ft. Rock Pressure _____ lbs. _____ hrs. Oil _____ bbls., 1st 24 hrs. WELL ACIDIZED (DETAILS) _____ WELL FRACTURED (DETAILS) <u>With 500 gal mud acid 1100 bbl icelled water 60,000 20/40 s. 30,000 / 10/20 sand. Breakdown 2300 Avg. treating pressure 1791 Avg inj. rate 47.3 bbl per min 750,000 c.w.</u> RESULT AFTER TREATMENT (Initial open Flow or bbls.) _____ ROCK PRESSURE AFTER TREATMENT <u>550</u> HOURS <u>12</u> hrs Fresh Water <u>100</u> Feet _____ Salt Water <u>1320</u> Feet _____ Producing Sand <u>Injun Sand</u> Depth <u>2380 to 2408</u>	Casing and Tubing Size 16 13 10 8 1/4 6 5/8 5 3/16 4 1/2 3 2 Liners Used	Used In Drilling 214 214 2460	Left In Well 214 2460	Packers Kind of Packer Size of Cemented w/87 s Depth set Cemented w/100 Perf. top <u>2401</u> Perf. bottom <u>2405</u> Perf. top _____ Perf. bottom _____
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Attach copy of cementing record.
 CASING CEMENTED 8 5/8 SIZE 2 1/4 No. Ft. 11/21/74 Date
 Amount of cement used (bags) 87
 Name of Service Co. Dowell
 COAL WAS ENCOUNTERED AT 150 FEET 20 INCHES
 FEET INCHES FEET INCHES
 FEET INCHES FEET INCHES

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth	Remarks
Soil			0	5			
Shale & Sand			5	150			
Coal			150	152			
Shale			152	565			
Sand			565	610			
Shale			610	1046			
Sand			1046	1140			
Shale			1140	1272			
Sand			1272	1502			
Shale			1502	1760			
Sand, Maxton			1760	1848			
Shale			1848	2180			
Big Lime			2180	2380			
Injun Sand			2380	2408			
Shale			2408	2430			

RECEIVED
Office of Oil and Gas
SEP 17 2013
WV Department of
Environmental Protection

09/20/2013



New Location <input checked="" type="checkbox"/> Drill Deeper <input type="checkbox"/> Abandonment <input type="checkbox"/>	Minimum Error of Closure <u>± 800</u> Source of Elevation _____ <div style="text-align: right;">RECEIVED</div> Office of Oil and Gas "I, the undersigned, hereby certify that this map is correct to the best of my knowledge and belief and shows all the information required by paragraph 6 of the rules and regulations of the oil and gas section of the mining laws of West Virginia." <div style="text-align: right;">SEP 17 2013</div>
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Company <u>East...</u>
Address <u>...</u>
Form <u>...</u>
Tract <u>...</u> Acres <u>...</u> Lease No. <u>...</u>
Well (Farm) No. <u>...</u> Serial No. <u>...</u>
Elevation (Bench Level) <u>1935</u>
Quadrangle <u>...</u>
County <u>...</u> District <u>...</u>
Engineer <u>[Signature]</u>
Engineer's Registration No. <u>...</u>
File No. <u>...</u> Recording No. <u>...</u>

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION
 CHARLESTON

WELL LOCATION MAP
 FILE NO. NIC-336

09/20/2013

* Denotes location of well on United States Topographic Maps, scale 1 to 62,500 feet. North and longitude lines being represented by border lines as shown.

- Denotes one inch scales on border line of original section.

17-017

WW-4A
Revised 6-07

1) Date: 06/30/2013
2) Operator's Well Number
Federal Coal # 7
3) API Well No.: 47 - 067 - 0336

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>Federal Coal Company Inc</u>	Name	<u>Karl Hamm Federal Coal Company INC</u>
Address	<u>P.O. Box 1259</u> <u>St Albans, WV 25177</u>	Address	<u>601 6th Ave #200</u> <u>St. Albans, WV 25177</u>
(b) Name	_____	(b) Coal Owner(s) with Declaration	✓
Address	_____	Name	<u>Karl Hamm Federal Coal Company INC</u>
(c) Name	_____	Address	<u>601 6th Ave #200</u> <u>St. Albans, WV 25177</u>
Address	_____	Name	_____
6) Inspector	<u>Ed Gainer</u> ✓	(c) Coal Lessee with Declaration	_____
Address	<u>PO Box 821</u> <u>Spencer, WV 25276</u>	Name	_____
Telephone	<u>304-389-7582</u>	Address	_____

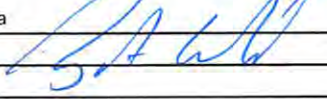
TO THE PERSONS NAMED ABOVE: You should have received this Form and the following documents:

- (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	<u>Energy Corporation of America</u>
By:	<u>Rodney A. Winters</u> 
Its:	<u>VP of Land</u>
Address	<u>501 56th St SE</u> <u>Charleston, WV 25304</u>
Telephone	<u>304-925-6100</u>

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.

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 Twenty Mile Creek Quadrangle Clay

Elevation 1400.37' County Nicholas District Jefferson

Description of anticipated Pit Waste: Fresh Water and 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 [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

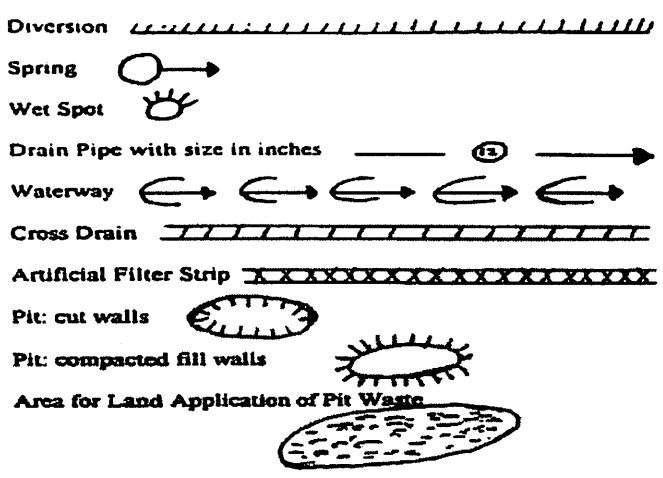
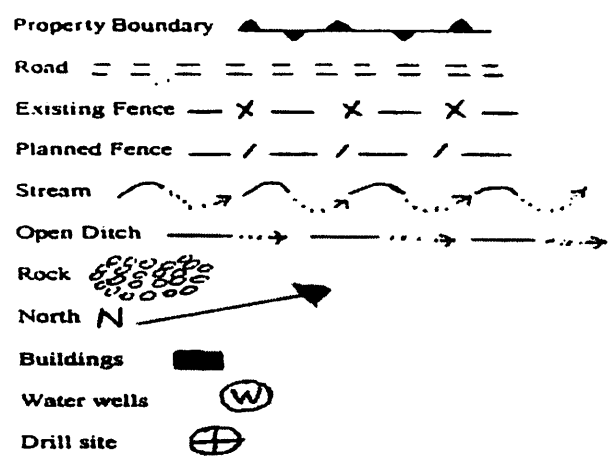
RECEIVED
Office of Oil & Gas

My commission expires April 19, 2021



09/20/2013

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.

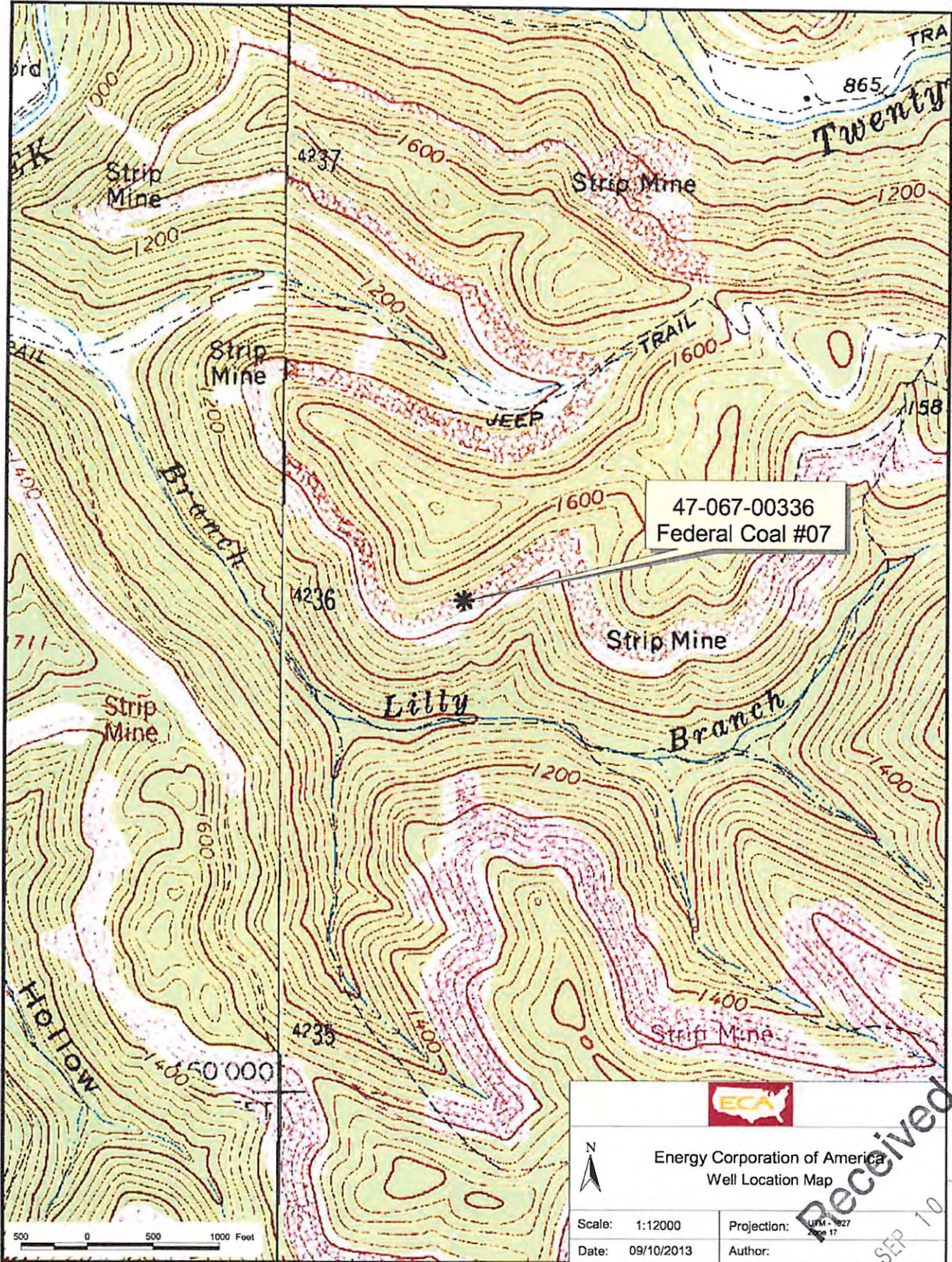
Photocopied section of involved 7.5' topographic sheet.

Plan Approved by: _____

Comments: _____

Title: _____ Date: _____

Field Reviewed? () Yes () No



47-067-00336
Federal Coal #07



Energy Corporation of America
Well Location Map



Scale: 1:12000	Projection: UTM - 1827 Zone 17
Date: 09/10/2013	Author:

Received
SEP 10 2013

Office of Oil and Gas
United States Department of Environmental Protection

09/20/2013

WW-7
8-30-06



West Virginia Department of Environmental Protection
Office of Oil and Gas

WELL LOCATION FORM: GPS

API: 47-067-0336 WELL NO.: 7

FARM NAME: Federal Coal

RESPONSIBLE PARTY NAME: Energy Corporation of America

COUNTY: Nicholas DISTRICT: Jefferson

QUADRANGLE: Clay

SURFACE OWNER: Federal Coal Company inc.

ROYALTY OWNER: Federal Coal Company inc.

UTM GPS NORTHING: 4,236,170.71

UTM GPS EASTING: 489,503.44 GPS ELEVATION: 440M 1400.37 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

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.

Alex Poltnay
Signature

Drilling Engineer
Title

9-10-13
Date

Received
SEP 10 2013
Office of Oil and Gas
WV Dept. of Environmental Protection