



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

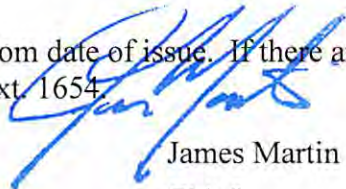
WELL WORK PLUGGING PERMIT

Plugging

This permit, API Well Number: 47-1501260, 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: 1
Farm Name: THE FORESTLAND GROUP LLC
API Well Number: 47-1501260
Permit Type: Plugging
Date Issued: 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.

1501260P

WW-4B
Rev. 2/01

1) Date July 31, 2013
2) Operator's
Well No. Clinchfield Coal #1
3) API Well No. 47-015 - 01260

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 821' Watershed Buffalo Creek
District Henry County Clay Quadrangle Clay 7-1/2 15'

6) Well Operator Energy Corporation of America 7) Designated Agent Rodney A Winters
Address 501 56th St SE Address Same
Charleston, WV 35304

8) Oil and Gas Inspector to be notified Name Ed Gainer
Address P.O. Box 821
Spencer, WV 25276
9) Plugging Contractor Name Steve Duckworth Well Service
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 1424'-1324'. Plug to be 8 sacks of Type 1 Cement.
Cement Plug #2 will be set from 1200'-1100'. Plug to be 35 sacks of Type 1 Cement.
Cement Plug #3 will be set from ³⁹¹241'-surface. Plug to be ~~72~~ ⁷² sacks of Type 1 Cement. *cut below casing*
Cut and pull approximately 1200' of 4.5" casing.
6% gel will be placed between all cement plugs.

Erect monument with API number

PLUG #2 NEEDS TO BE ACROSS CASING CUT OF 4 1/2, AT LEAST 100'.

RECEIVED
Office of Oil and Gas

SEP 17 2013

Notification must be given to the district oil and gas inspector 24 hours before permitted work can commence. WV Department of Environmental Protection

Work order approved by inspector  Date 9/16/13

09/20/2013

DEPARTMENT OF MINES
Oil and Gas Division

1501266P
OIL & GAS DIVISION
DEPT. OF MINES

WELL RECORD

Rotary X Oil _____
Cable _____ Gas _____
Recycling _____ Comb. _____
Water Flood _____ Storage _____
Disposal _____ Kidd
(Kidd)

Quadrangle Clay

Permit No. Clay-1260

Company Eastern American Energy Corporation
Address P.O. Box N, Glenville, WV
Farm Clinchfield Coal Company Acres 77,000
Location (waters) Buffalo Creek
Well No. 1 Elev. 821
District Henry County Clay
The surface of tract is owned in fee by _____
Clinchfield Coal Company
Address Widen, W. Va.
Mineral rights are owned by Clinchfield Coal
Company Address Widen, W. Va.
Drilling Commenced 9-22-77
Drilling Completed 10-2-77
Initial open flow N/A cu. ft. _____ bbls.
Final production 0 cu. ft. per day 0 bbls.
Well open 4 hrs. before test 0 RP.

Casing and Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft. (Sks.)
Size 20-16			
Cond. 13-10"			
9 5/8			
8 5/8	241	241	Surface
7			
5 1/2			
4 1/2	1811	1811	150 sks.
3			
2			
Liners Used			

Well treatment details:

Attach copy of cementing record.

Perf. Maxton 1424-1465 ft. w/14-3/4" holes
Frac. w/ 415 bbl. water, Breakdown 2500 psi
21,500 lbs. Ave. Rate 22.2 bbl/m
18,500 lbs. 20/40 Ave. Pres. 2986 psi
500 gal. HCL

Coal was encountered at 145-150 Feet _____ Inches
Fresh water N/A Feet _____ Salt Water N/A Feet _____
Producing Sand Maxton Depth 1415-1528 ft.

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
Surface			0	40		
Shale			40	87		
Sand and Shale			87	145		
Coal			145	150		
Sand and Shale			150	842		
Shale			842	1052		
Sand			1052	1128		
Shale			1128	1252		
Sand			1252	1298		
Shale			1298	1415		
Maxton			1415	1528		

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SEP 17 2013
WV Department of
Environmental Protection

09/20/2013

1501266P

Pencil Cave

1528

1555

Big Line

1555

1629

Big Injun

1629

1748

Shale

1748

1911

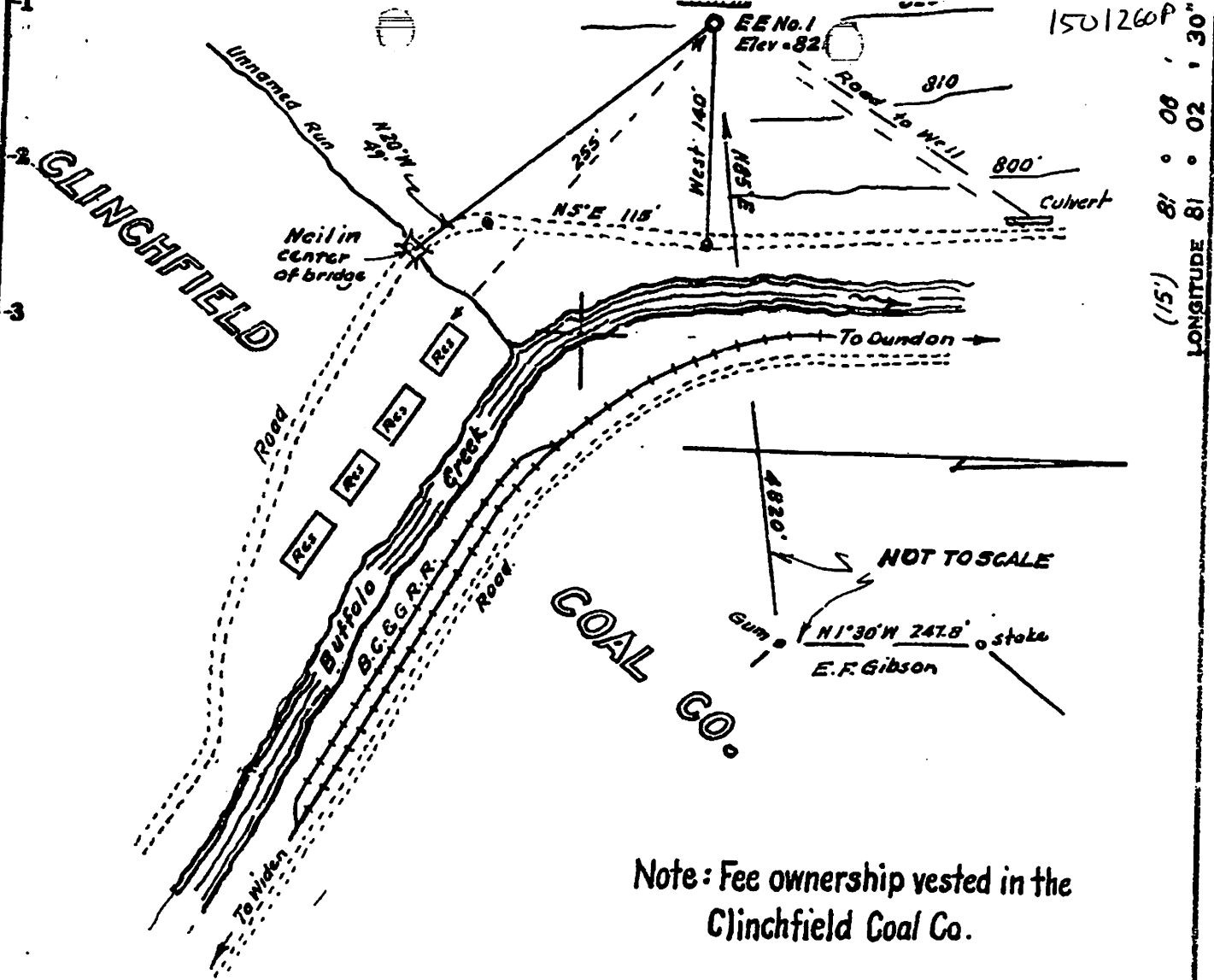
TD

1911

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

09/20/2013

Handwritten signature



Note: Fee ownership vested in the Clinchfield Coal Co.

Minimum Error of Closure 1 in 200

Source of Elevation B.M. at Dundon = 708

- Fracture
- New Location
- Drill Deeper
- Abandonment

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.

Map No. _____

EASTERN AMERICAN ENERGY CORP.
 Company dba **PACIFIC STATES GAS and OIL**
 Address P.O. Box 67, Glenville, West Va.
 Farm Clinchfield Coal Co.
 Tract _____ Acres 77,000 Lease No. _____
 Well (Farm) No. E.E. No. 1 Serial No. _____
 Elevation (Spirit Level) 821
 Quadrangle Clay 7 1/2 15'
 County Clay District Henry
 Engineer M.H. Hae

Signed: M.H. Hae RECEIVED
 Squares: N S Office of Oil and Gas

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES SEP 17 2013
 OIL AND GAS DIVISION
 CHARLESTON WV Department of Environmental Protection

WELL LOCATION MAP

FILE NO. CLA - 1260

+ Denotes location of well on United States Topographic Maps, scale 1 to 62,500, latitude and longitude lines being 29,000'

39/20/2013

WW-4A
Revised 6-07

1) Date: 06/31/2013
2) Operator's Well Number
Energy Corporation of America
3) API Well No.: 47 - 015 - 01260

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

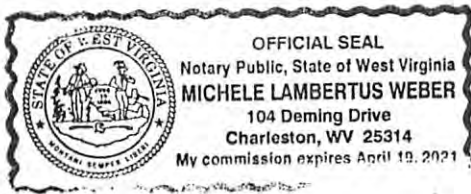
4) Surface Owner(s) to be served:	✓	5) (a) Coal Operator	
(a) Name	The Forestland Group LLC	Name	Tara Meek
Address	3001 Emerson Ave Parkersburg, WV 26104	Address	1000 Consol Energy Drive Canonsburg, PA 15317
(b) Name		(b) Coal Owner(s) with Declaration	
Address		Name	Tara Meek
		Address	1000 Consol Energy Drive Canonsburg, PA 15317
(c) Name		Name	
Address		Address	
6) Inspector	Ed Gainer	(c) Coal Lessee with Declaration	
Address	P.O Box 821 Spencer, WV 25276	Name	
Telephone	304-389-7582	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
 Its: VP of Land
 Address: 501 56th St SE
 Charleston, WV 25304
 Telephone: 304-925-6100

[Handwritten Signature]

Subscribed and sworn before me this 28 day of August, 2013
Michele Lambertus Weber Notary Public
 My Commission Expires April 19, 2021

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Office of Oil & Gas

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.

SEP 05 2013
Environmental Protection

09/20/2013

1501260P

WW-9
Rev. 5/08

Page 1 of 4
API Number 47 - 015 - 01260
Operator's Well No. Clinchfield Coal #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 Energy Corporation of America OP Code 014980

Watershed Buffalo Creek Quadrangle Clay 7-1/2 15'

Elevation 821' County Clay District Henry

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
- 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

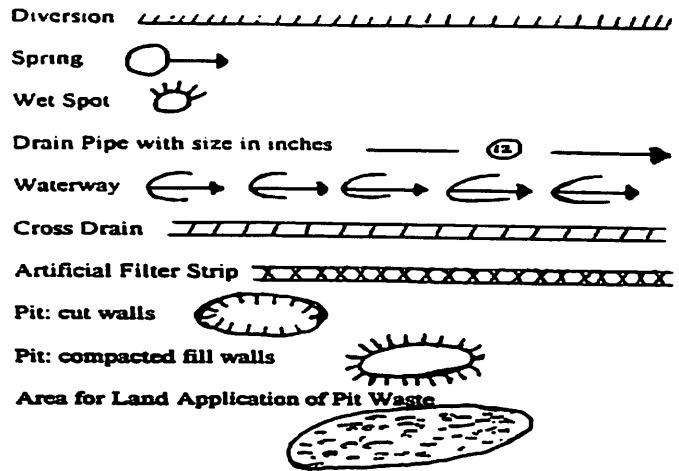
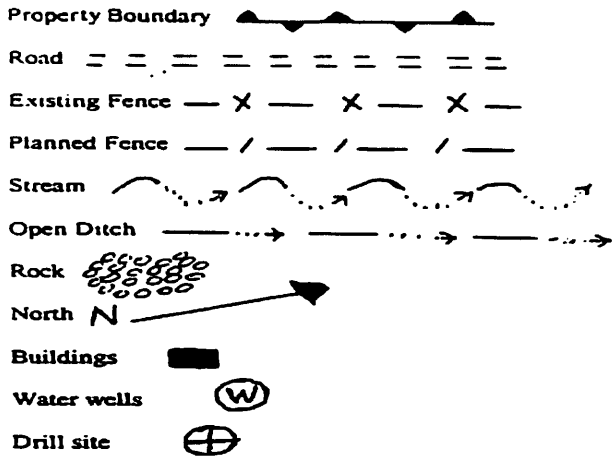
Notary Public

My commission expires April 19, 2021

Received

OFFICIAL SEAL
Notary Public, State of West Virginia
MICHELE LAMBERTUS WEBER
104 Deming Drive
Charleston, WV 25314
My commission expires April 19, 2021

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		5

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

Photocopied section of involved 7.5' topographic sheet.

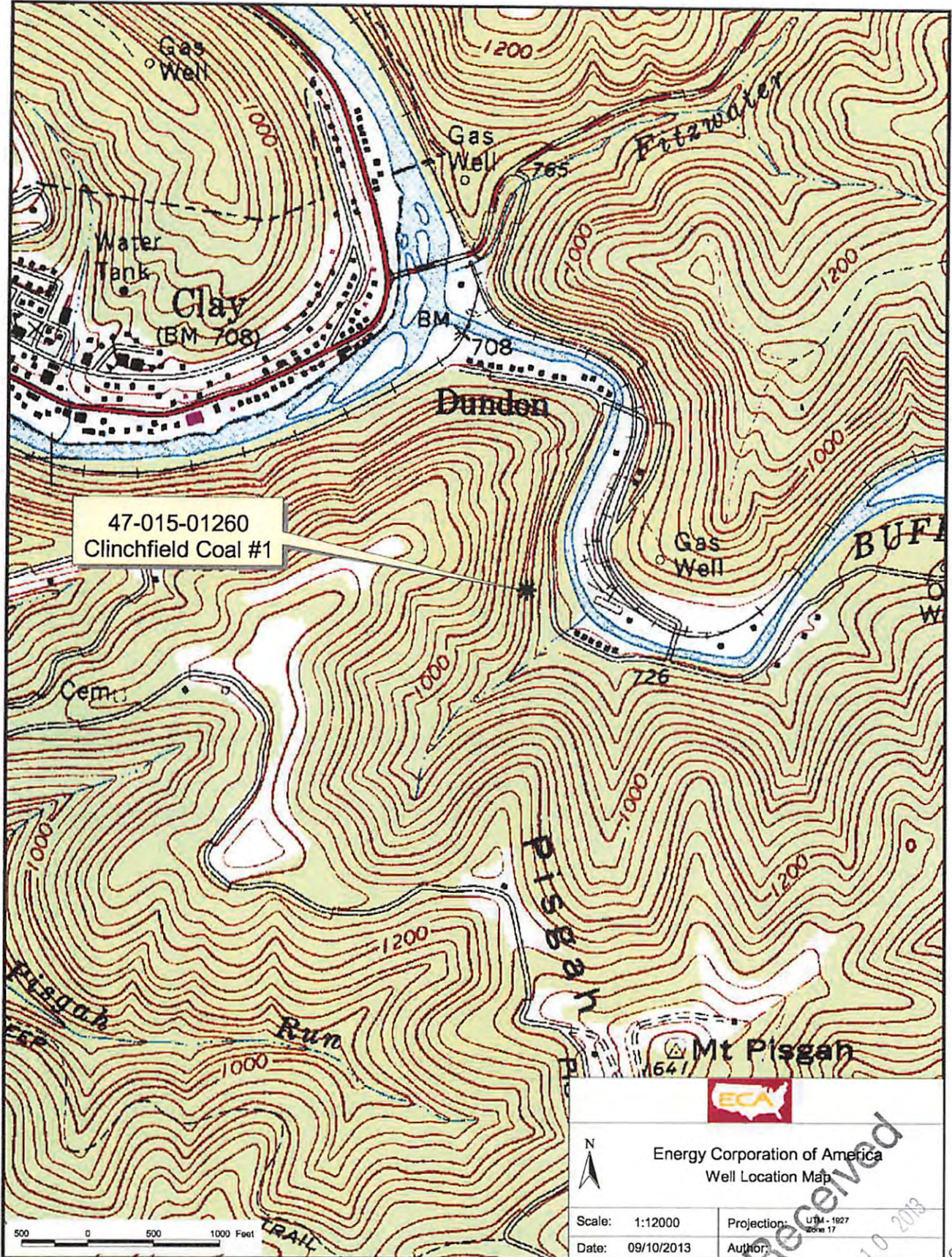
Plan Approved by: _____

Comments: _____

Title: _____ Date: _____

Field Reviewed? () Yes () No

Received
 Office of Oil and Gas
 WW Dept. of Environmental Protection



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

09/20/2013

15 01260A

WW-7
8-30-06



West Virginia Department of Environmental Protection
Office of Oil and Gas

WELL LOCATION FORM: GPS

API: 47-015-01260 WELL NO.: 1

FARM NAME: Clinchfield Coal

RESPONSIBLE PARTY NAME: Energy Corporation of America

COUNTY: Clay DISTRICT: Henry

QUADRANGLE: Clay 7-1/2 15'

SURFACE OWNER: The Forestland Group LLC

ROYALTY OWNER: Range Resources

UTM GPS NORTHING: 4,256,391.44

UTM GPS EASTING: 493,846.17 GPS ELEVATION: 250m 821 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.

Alan Poltney
Signature

Drilling Engineer
Title

9-10-13
Date

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

09/20/2013