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**west virginia** department of environmental protection

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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

March 17, 2015

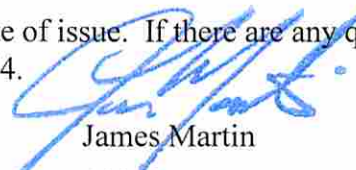
**WELL WORK PLUGGING PERMIT**

**Plugging**

This permit, API Well Number: 47-6101708, issued to EASTERN ASSOCIATED COAL/PEABODY COAL CO., 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: F2-570  
Farm Name: BRAY, CALVIN  
**API Well Number: 47-6101708**  
**Permit Type: Plugging**  
Date Issued: 03/17/2015

Promoting a healthy environment.

03/20/2015

## 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.

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

APPLICATION FOR A PERMIT TO PLUG AND ABANDON

- 4) Well Type: Oil X / Gas      / Liquid injection      / Waste disposal      /  
(If "Gas, Production      or Underground storage     ) Deep      / Shallow
- 5) Location: Elevation 1,174' Watershed Kings Run  
District Clay County Monongalia Quadrangle Blacksville
- 6) Well Operator Eastern Associated Coal LLC 7) Designated Agent Matthew L. Bonnell  
Address 1044 Miracle Run Road Address 1044 Miracle Run Rd.  
Fairview, WV 26570 Fairview, WV 26570
- 8) Oil and Gas Inspector to be notified 9) Plugging Contractor  
Name Gayne J. Knitowski Name Chisler Brothers  
Address P.O. Box 108 Address P.O. Box 101  
Gormanian, WV 26720 Pentress, WV 26544

10) Work Order: Per our 101-C petition, the work order for the manner of plugging this well Petition is as follows:

1. Install Sediment Control as Needed
2. Cut out well to a total depth, if practical, or to a minimum of 200 feet below the Pittsburgh Coal Seam.
3. Run well logs and directional surveys.
4. Collars of any old remaining casing will be ripped at the coal seam.
5. A plug made of expanding cement slurry shall be pumped from at least 200 feet below the base of the coal seam to 100 feet above the coal seam. The expanding cement shall be place in the well under a pressure of at least 200 psi.
6. After the expanding cement has hardened, it will be tagged, and the well bore will be filled with porland or lightweight cement mixture, by tubing, to the surface.
7. A suitable monument installed on the surface with the necessary well identification plate attached.
8. Vegetate and reclaim site ASAP.

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

Work order approved by inspector *Gayne J. Knitowski* Date 2/11/2015

Received  
Office of Oil & Gas  
FEB 12 2015



WW4-A  
Revised  
2/01

1) Date: February 9, 2015  
2) Operator's Well Number ?  
(current-Aaron Fisher), EAC F2-570  
3) API Well No.: - 47 - 061 - 01708F

**STATE OF WEST VIRGINIA - BUREAU OF ENVIRONMENT  
DIVISION 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>Calvin Bray</u>	Name <u>Eastern Associated Coal LLC</u>
Address <u>289 Easton Mill Road</u> ✓	Address <u>1044 Miracle Run Road</u> ✓
<u>Morgantown, WV 26508</u>	<u>Fairview, WV 26570</u>
(b) Name _____	(b) Coal Owner(s) with Declaration
Address _____	Name <u>Eastern Associated Coal LLC</u>
(c) Name _____	Address <u>1044 Miracle Run Road</u> ✓
Address _____	<u>Fairview, WV 26570</u>
6) Inspector _____	(c) Coal Lessee with Declaration
Address _____	Name _____
Telephone _____	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.

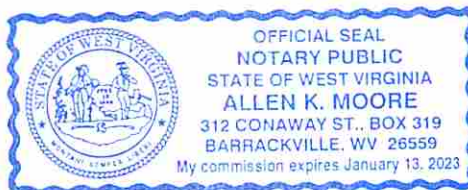
The reason you received these documents is that you have rights regarding the application which are summarized in the instructions on the reverses side. However, you are not required to take any action at all.

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 Division 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.

Received  
Office of Oil & Gas  
FEB 12 2015

Well Operator Eastern Associated Coal LLC  
 By: *Malibu I. Smith*  
 Its: Designated Agent  
 Address 1044 Miracle Run Road  
Fairview, WV 26570  
 Telephone (304) 368-9952

Subscribed and sworn before me this 10<sup>th</sup> day of February, 2015.  
*Allen K. Moore* Notary Public  
 My Commission Expires January 13, 2023



03/20/2015

**SURFACE OWNER WAIVER**

Operator's Well  
Number

Current-Calvin Bray  
Eastern Assoc. Coal LLC F2-570

**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  
Division of Environmental Protection  
1356 Hansford Street  
Charleston, WV 25301  
(304) 558-6342

**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..."

**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.**

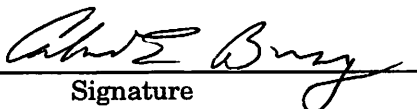
**VOLUNTARY STATEMENT OF NO OBJECTION**

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,

  
Signature

Date 1/20/15 Name  
By  
Its

**Received**  
**Office of Oil & Gas**  
Date

Signature 12 2015 Date **03/20/2015**

**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 Division 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: February 9, 2015

Eastern Associated Coal LLC  
By: Matthew Powell  
Its Designated Agent

Received  
Office of Oil & Gas  
FEB 12 2015



STATE OF WEST VIRGINIA  
DIVISION 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 Eastern Associated Coal LLC OP Code \_\_\_\_\_  
Watershed Kings Run Quadrangle Blacksville

Elevation 1,174' County Monongalia District Clay

Description of anticipated Pit Waste: Plugging

Will a synthetic liner be used in the pit? No

*ANY WELL EFFLUENT MUST  
BE DISPOSED OF PROPERLY.*

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 (no pit, steel tank used)

I certify that I understand and agree to the terms and conditions of the GENERAL WATER POLLUTION PERMIT issued on December 31, 1999, by the Office of Oil and Gas of the West Virginia Division 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 Matthew L. Bonnell

Company Official (Typed Name) Matthew L. Bonnell

Company Official Title Designated Agent

Received  
Office of Oil & Gas

FEB 12 2015

Subscribed and sworn before me this 10th day of February, 2015






















Allen K Moore Notary Public

My commission expires January 13, 2023



03/20/2015

LEGEND

- Property Boundary 
- Road 
- Existing Fence 
- Planned Fence 
- Stream 
- Open Ditch 
- Rock 
- North 
- Buildings 
- Water Wells 
- Drill Site 
- Diversion 
- Spring 
- WetSpot 
- Drain Pipe with size in inches 
- Water Way 
- Cross Drain 
- Artificial Filter Strip 
- Pit with Cut Walls 
- Pit with Compacted Walls 
- Area of Land Application of Pit Waste 

Proposed Revegetation Treatment: Acres Disturbed 2 Prevegetation pH \_\_\_\_\_  
 Lime 4 Tons/acre or to correct to pH 6.5  
 Fertilizer (10-20-20 or equivalent) 1,000 lbs/acre (500 lbs minimum)  
 Mulch Hay 150 Bales or 3 Tons/acre

Seed Mixtures

	Area I		Area II
Seed Type	lbs/acre		lbs/acre
Annual Rye Grass	40 pounds		Tall Fescue 30 pounds
			Orchard Grass 15 pounds
			Ladine Clover 10 pounds

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

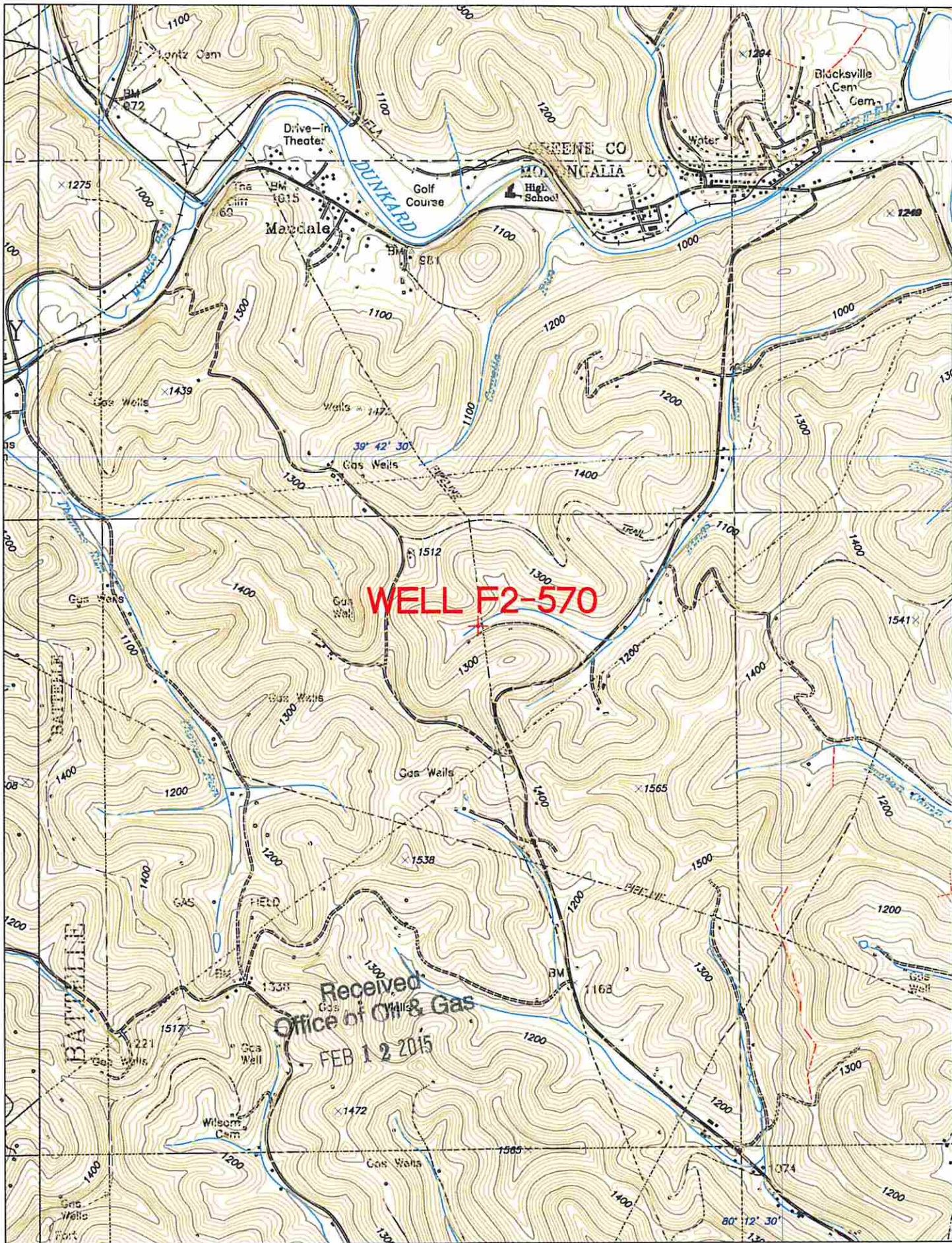
Photocopied section of involved 7.5' topographic sheet.

Plan Approved by: Mary J. Kimball  
 Title: Inspector Date: 2/11/2015  
 Field Reviewed?  Yes  No

Received  
 Office of Oil & Gas  
 FEB 12 2015

03/20/2015



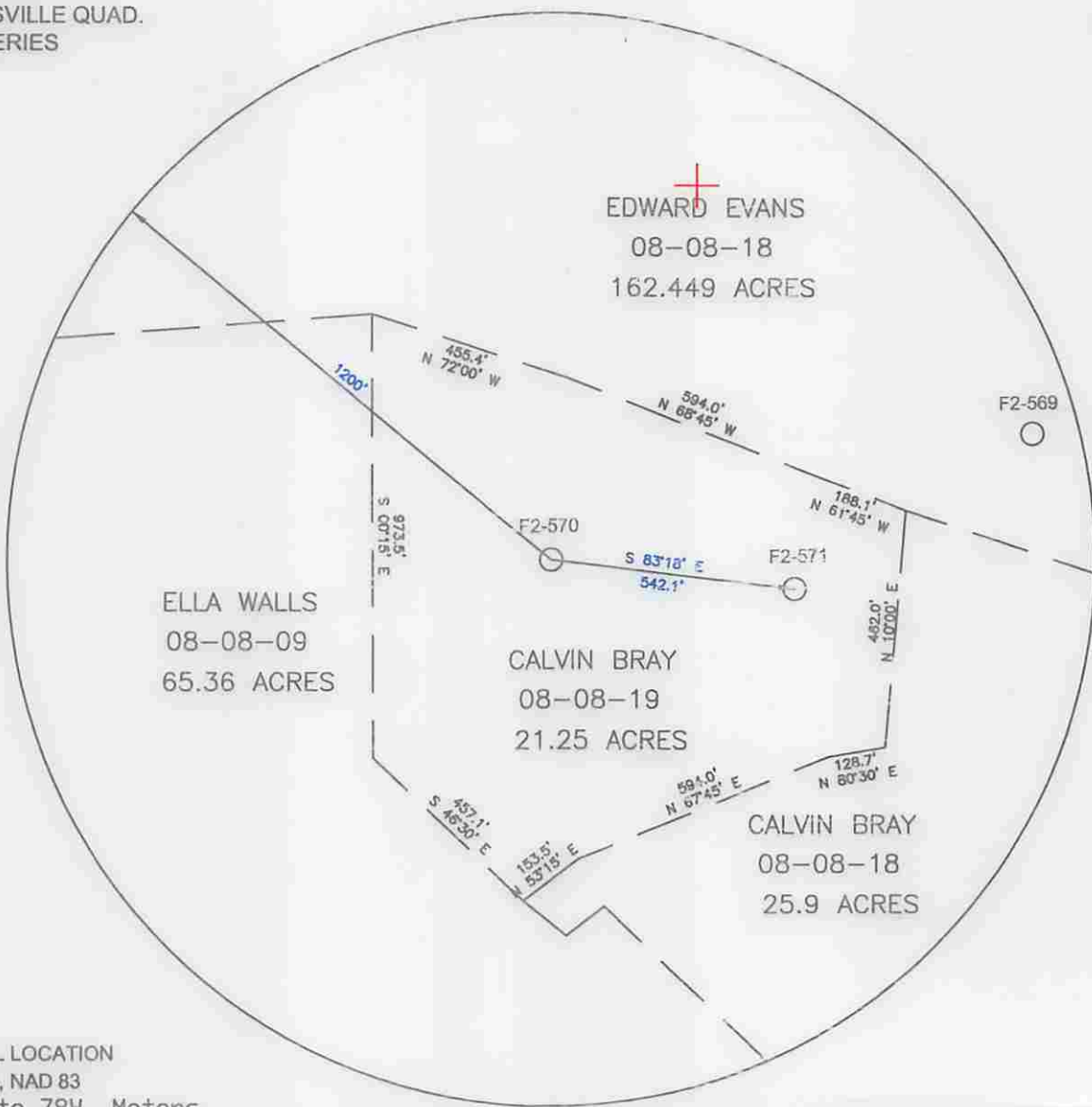




LATITUDE 39° 42' 30"  
— 4,785'

LONGITUDE 80° 12' 30"  
— 2,676'

TOPO. LOC.  
BLACKSVILLE QUAD.  
7 1/2' SERIES



WELL LOCATION  
UTM, NAD 83  
17-84W to 78W, Meters  
N: 4,394,867.7  
E: 566,432.5  
Elevation: 357.7

FILE NO. WELL F2-570  
DRAWING NO. F2-570 PLAT  
SCALE 1"=400'  
MINIMUM DEGREE OF  
ACCURACY 1/2500'  
PROVEN SOURCE OF  
ELEVATION USGS B.M.

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  
MINES.  
(SIGNED) John F. Ewell Jr.  
R.P.E. 11133 L.L.S.



(+) DENOTES LOCATION OF  
WELL ON UNITED STATES  
TOPOGRAPHIC MAPS

DATE FEB 10, 20 15  
OPERATOR'S WELL NO. F2-570  
API WELL NO.

FORM IV-6

(8-78)

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

47 - 061 - 01708P  
STATE COUNTY PERMIT

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

LOCATION: ELEVATION 1,174' WATERSHED KINGS RUN  
DISTRICT CLAY COUNTY MONONGALIA  
QUADRANGLE BLACKSVILLE

SURFACE OWNER CALVIN BRAY ACREAGE 21.25

OIL & GAS ROYALTY OWNER UNKNOWN LEASE ACREAGE   

LEASE NO.   

PROPOSED WORK: DRILL    CONVERT    DRILL DEEPER    REDRILL X FRACTURE OR  
STIMULATE    PLUG OFF OLD FORMATION    PERFORATE NEW  
FORMATION    OTHER PHYSICAL CHANGE IN WELL (SPECIFY)   

PLUG AND ABANDON X CLEAN OUT AND REPLUG     
TARGET FORMATION BAYARD SAND ESTIMATED DEPTH 3,250'

WELL OPERATOR EASTERN ASSOC. COAL LLC DESIGNATED AGENT     
ADDRESS 1044 MIRACLE RUN ROAD ADDRESS     
FAIRVIEW WV. 26570

MATTHEW L. BONNELL  
1044 MIRACLE RUN ROAD  
FAIRVIEW WV. 26570

03/20/2015



Eastern Associated Coal LLC

6101708P  
Federal No. 2  
1044 Miracle Run Road  
Fairview, West Virginia 26570  
Phone: (304) 449-1911  
Fax: (304) 449-1026

February 11, 2015

WV Department of Environmental Protection  
Office of Oil and Gas  
Permitting  
601 57<sup>th</sup> Street, SE  
Charleston, WV 25304-2345

Dear Sir/Madam:

A search of the WV DEP OOG microfiche files was performed May 20, 2014 at the WVDEP office in Charleston by an Eastern Associated Coal engineer. We were not successful at finding any information on the well F2-570.

If there are any questions, please don't hesitate to call me at (304) 368-9952.

Sincerely,

A handwritten signature in blue ink that reads "Matthew L. Bonnell".

Matthew L. Bonnell  
Engineer

Received  
Office of Oil & Gas  
FEB 12 2015

03/20/2015





Eastern Associated Coal LLC

6101708P  
Federal No. 2  
1044 Miracle Run Road  
Fairview, West Virginia 26570  
Phone: (304) 449-1911  
Fax: (304) 449-1026

February 11, 2015

WV Department of Environmental Protection  
Office of Oil and Gas  
Permitting  
601 57<sup>th</sup> Street, SE  
Charleston, WV 25304-2345

Dear Sir/Madam:

Enclosed is the information required by your office prior to plugging and mining through operations (101c petition) for our well F2-570 that is located on the Calvin Bray property.

The well penetrates our Federal No. 2 Mine in Clay District, Monongalia County, West Virginia. Specifically included are the following:

1. Letter stating there was a search of records
2. Form WW-4 (a) Notice of Application,
3. Form WW-4 (b) Application,
4. Certified Location Plat Mylar,
5. 8.5" x 11" Topographic location map,
6. Form WW-9, and
7. Surface Owner Waiver

If there are any questions, please don't hesitate to call me at (304) 368-9952.

Sincerely,

Matthew L. Bonnell  
Engineer

Received  
Office of Oil & Gas  
FEB 12 2015

03/20/2015