



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 17, 2015

WELL WORK PLUGGING PERMIT

Plugging

This permit, API Well Number: 47-6101716, 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: F2-578
Farm Name: TENNANT, WILLIAM
API Well Number: 47-6101716
Permit Type: Plugging
Date Issued: 07/17/2015

Promoting a healthy environment.

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.

6101716P

FORM WW-4 (B)
Observe
File Copy
(Rev. 2/01)

1) Date April 28, 2015
2) Operator's- ?
Well No. -EAC LLC # F2-578
3) API Well No. 47 - 061 - 01716

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 1,420' Watershed Thomas 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
Gormaniam, 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 portland 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. Reclaim site as soon as possible.

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 5/5/2015

RECEIVED
Office of Oil and Gas
JUN 05 2015
WV Department of
Environmental Protection

6101716A

WW4-A
Revised
2/01

1) Date: April 28, 2015
2) Operator's Well Number ?
(current-Aaron Fisher), EAC F2-578
3) API Well No.: - 47 - 061 - _____

**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>William Tennant</u>	Name <u>Eastern Associated Coal LLC</u>
Address <u>514 Jess Tennant Hill Rd</u>	Address <u>1044 Miracle Run Road</u>
<u>Blacksville, WV 26521</u>	<u>Fairview, WV 26570</u>
(b) Name _____	(b) Coal Owner(s) with Declaration
Address _____	Name <u>Eastern Associated Coal LLC</u>
_____	Address <u>1044 Miracle Run Road</u>
_____	<u>Fairview, WV 26570</u>
(c) Name _____	Name _____
Address _____	Address _____
_____	_____
6) Inspector _____	(c) Coal Lessee with Declaration
Address _____	Name _____
_____	Address _____
Telephone _____	_____

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

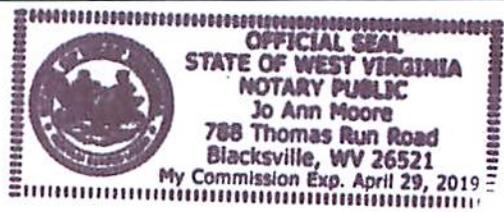
- (1) The application to Plug and Abandon a Well on Form WW-4B, which sets out the parties involved in the work and describes the well its and the plugging work order; and
- (2) The plat (surveyor's map) showing the well location on Form WW-6.

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 and Gas
Well Operator	<u>Eastern Associated Coal LLC</u>	
By:	<u>Matthew L Bommel</u>	
Its:	<u>Designated Agent</u>	<u>JUN 05 2015</u>
Address	<u>1044 Miracle Run Road</u>	
	<u>Fairview, WV 26570</u>	WV Department of
Telephone	<u>(304) 368-9952</u>	Environmental Protection

Subscribed and sworn before me this 28th day of April, 2015.
Jo Ann Moore Notary Public
My Commission Expires April 29, 2019



**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: April 28, 2015 Eastern Associated Coal LLC
By: Matthew & Bonnell
Its Designated Agent

RECEIVED
Office of Oil and Gas
JUN 05 2015
WV Department of
Environmental Protection

6101716P

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 Thomas Run Quadrangle Blacksville

Elevation 1,420' 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.
gmm*

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

RECEIVED
Office of Oil and Gas

Company Official (Typed Name) Matthew L. Bonnell

JUN 05 2015

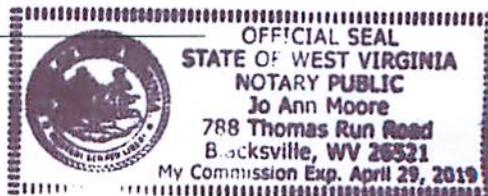
Company Official Title Designated Agent

WV Department of
Environmental Protection

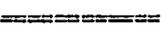
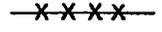
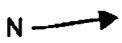
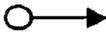
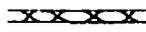
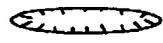
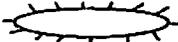
Subscribed and sworn before me this 28th day of April, 2015

Op Ann Moore Notary Public

My commission expires April 29, 2019



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	Seed Type	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.

RECEIVED
Office of Oil and Gas

JUN 05 2015

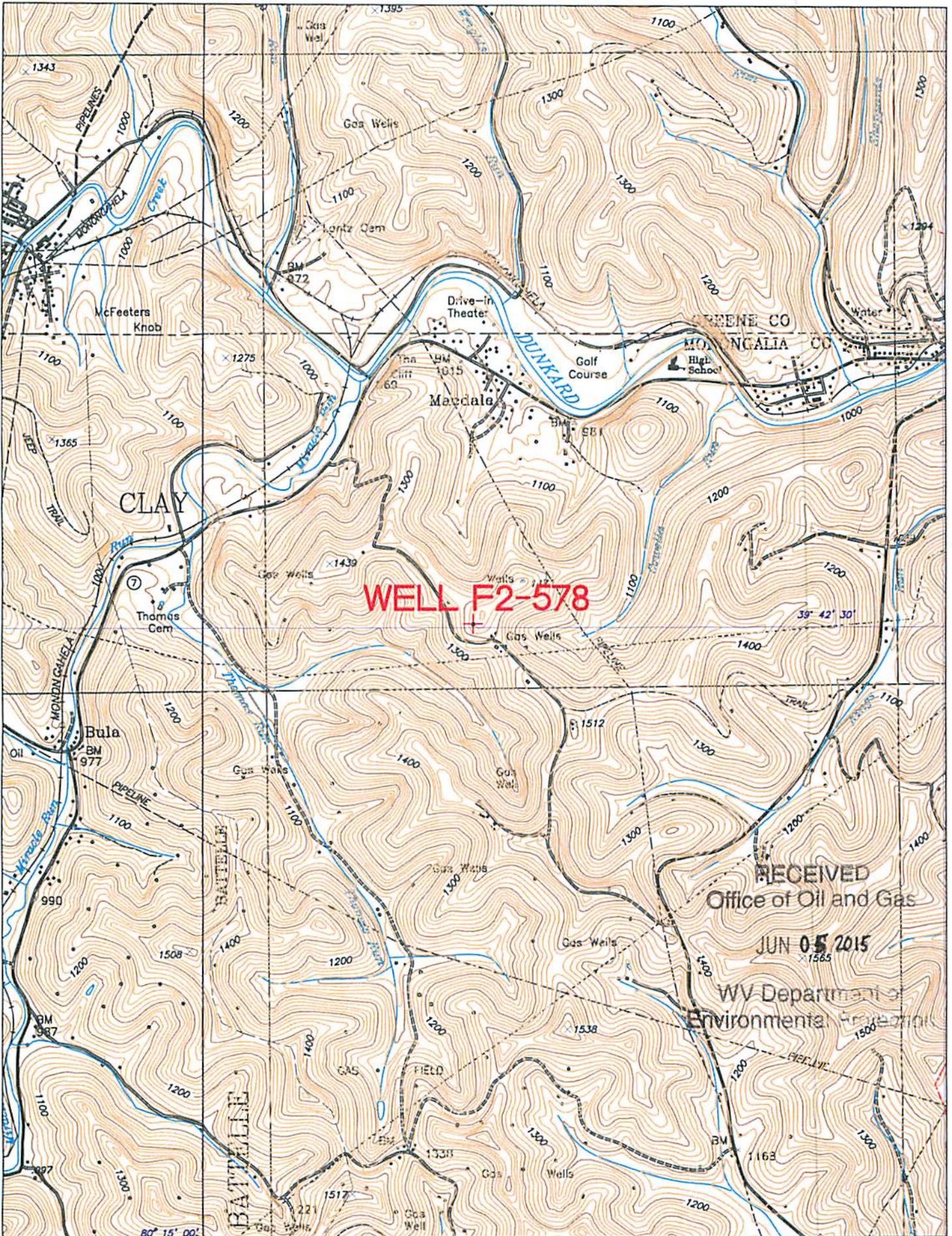
Plan Approved by: Mary J. [Signature]

WV Department of
Environmental Protection

Title: Inspector

Date: 5/5/2015

Field Reviewed? Yes No



WELL F2-578

RECEIVED
Office of Oil and Gas

JUN 05 2015

WV Department of
Environmental Protection

LATITUDE 39° 45' 00"

7,466'

15,117'

LONGITUDE 80° 12' 30"

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

KATHLEEN BIEL
08-01-10
67.25 ACRES

CHARLES CHISLER
08-01-23
71.13 ACRES

1200'

F2-578

JANET T. DUNN
08-08-13
25.45 ACRES

JOSEPH H. WOLFE
08-08-1.4
157.74 ACRES

WILLIAM TENNANT
08-08-12
60.191 ACRES

F2-579

WELL LOCATION
UTM, NAD 83

N: 4,395,693.8
E: 565,611.4
Elevation: 432.9



FILE NO. WELL F2-578
DRAWING NO. F2-578 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

FORM IV-6

(8-78)

DATE APRIL 28, 20 15
OPERATOR'S WELL NO. F2-578
API WELL NO.

47 - 061 - 01716 P
STATE COUNTY PERMIT

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

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

LOCATION: ELEVATION 1,420' WATERSHED THOMAS RUN
DISTRICT CLAY COUNTY MONONGALIA
QUADRANGLE BLACKSVILLE

SURFACE OWNER WILLIAM TENNANT ACREAGE 60.191
OIL & GAS ROYALTY OWNER UNKNOWN LEASE ACREAGE
LEASE NO.

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

PLUG AND ABANDON 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

6101716 P



Eastern Associated Coal LLC

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

June 3, 2015

WV Department of Environmental Protection
Office of Oil and Gas
Permitting
601 57th 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 F2-578.

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 and Gas
JUN 05 2015
WV Department of
Environmental Protection

4706101716 P



Eastern Associated Coal LLC

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

June 3, 2015

WV Department of Environmental Protection
Office of Oil and Gas
Permitting
601 57th 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 F2-578 that is located on the William Tennant 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,

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

Matthew L. Bonnell
Engineer

RECEIVED
Office of Oil and Gas
JUN 05 2015
WV Department of
Environmental Protection

I
now
Operator: EASTERN ASSOCIATED COAL/PEABODY CC
API: 6101716
WELL No: F2-578
Reviewed by: gwm Date: 7/16/15
15 Day End of Comment: 06/10/15

CHECKLIST FOR FILING A PERMIT

Plugging
101C

- WW-4B
- Inspector signature on WW-4B
- N/A** Completion / Well Records of Previous Work
- WW-4A (Notarized)
- Certified Mail Receipts, Waivers, or Affidavits of Personal Service
- Surface Owner Waiver
- Coal Owner / Lessee / Operator Waiver
- WW-9 (Page 1) (Notarized)
- Inspector Signature on WW-9 (Optional)
- Topographic Map of location of well
- WW-7

OR

- Mylar Plat (Surface owner on plat matches WW-4A)
- Bond
- Company is Registered with the SOS
- Worker's Compensation / Unemployment Insurance account is OK
- \$100.00 check (\$0.00 if no pit)