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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

July 09, 2013

**WELL WORK PLUGGING PERMIT**

**Plugging**

This permit, API Well Number: 47-5101444, issued to MCELROY COAL COMPANY, 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: M-1572  
Farm Name: HAMMERS, JACK R. & PAUL F.  
**API Well Number: 47-5101444**  
**Permit Type: Plugging**  
Date Issued: 07/09/2013

**Promoting a healthy environment.**

**07/12/2013**

5101444P

WW-4A  
Revised 6-07

1) Date: June 24, 2013  
2) Operator's Well Number M-1572  
3) API Well No.: 47 - 51 - 01444

**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>Jack R. Hammers</u>	Name	<u>McElroy Coal Company</u>
Address	<u>165 Oakmont Road</u> <u>Wheeling, WV 26003</u>	Address	<u>6126 Energy Drive</u> <u>Moundsville, WV 26041</u>
(b) Name	<u>Paul F. Hammers</u>	(b) Coal Owner(s) with Declaration	
Address	<u>#3 Squire Valley</u> <u>Barboursville, WV 25504</u>	Name	_____
(c) Name	_____	Address	_____
Address	_____	(c) Coal Lessee with Declaration	
6) Inspector	_____	Name	_____
Address	_____	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.

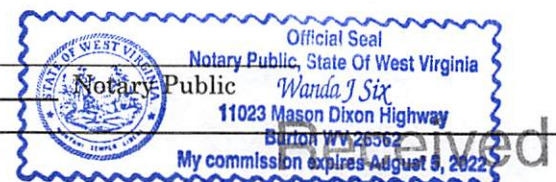
The reason you received these documents is that you have rights regarding the application which are summarized in the instructions on the reverses side. However, you are not required to take any action at all.

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 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 McElroy Coal Company  
 By: Adrienne Carney *Adrienne Carney*  
 Its: sk Project Engineer / Agent  
 Address 6126 Energy Drive  
Moundsville, WV 26041  
 Telephone 304-843-3565

Subscribed and sworn before me this 25<sup>th</sup> day of June

My Commission Expires August 5, 2022



**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](mailto:depprivacyofficer@wv.gov).

WW-4B  
Rev. 2/01

1) Date June 24, 2013  
2) Operator's  
Well No. M-1572  
3) API Well No. 47-51 - 0144

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 \_\_\_/ Liquid injection \_\_\_/ Waste disposal \_\_\_/  
(If "Gas, Production \_\_\_ or Underground storage \_\_\_) Deep \_\_\_/ Shallow X

5) Location: Elevation 1267.73' Watershed Unnamed Tributary to Grave Creek  
District Cameron County Marshall Quadrangle Cameron, WV 7.5'

6) Well Operator McElroy Coal Company 7) Designated Agent Adrienne Carney  
Address 6126 Energy Drive Address 6126 Energy Drive  
Moundsville, WV 26041 Moundsville, WV 26041

8) Oil and Gas Inspector to be notified 9) Plugging Contractor  
Name Bill Hendershot Name \_\_\_\_\_  
Address 403 James Street Address \_\_\_\_\_  
Mannington, WV 26582

10) Work Order: The work order for the manner of plugging this well is as follows:

**Received**

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

JUL 1 2013

Work order approved by inspector \_\_\_\_\_ Date \_\_\_\_\_  
Office of Oil and Gas  
WV Dept. of Environmental Protection

07/12/2013

## EXHIBIT NO. 1

From the experience and technology developed since 1970 in plugging oil and gas wells for mining through, Consolidation Coal's Northern West Virginia Operations will utilize one of the following two methods to plug all future wells.

4½ VENT PIPE METHOD

- (a) If active well: clean out to total depth and plug back according to state regulations to a minimum of 200 feet below lowest minable coal seam.
- (b) If abandoned well: clean out to first plug 200 feet below lowest minable seam.
- (c) Run 4½ casing from surface to minimum 200 feet below lowest minable seam and circulate 50/50 poz mix cement followed by expanding cement to surface. The expanding cement shall extend from minimum 200 feet below minable coal seam to a point 100 feet above.

The 4½ will remain open from surface to a minimum of 80 feet below that minable coal seam.

SOLID PLUG METHOD

- (a) If active well: clean out to total depth and plug back according to state regulations to a minimum of 200 feet below lowest minable coal seam.
- (b) If an abandoned well: clean out to first plug 200 feet below lowest minable coal seam.
- (c) Circulate through tubing or drill steel an expanding cement plug from a minimum of 200 feet below minable coal seam to a point 100 feet above minable coal.

Circulate through tubing or drill steel 50/50 poz mix from 100 feet above coal seam to surface.

A monument will be installed with API No. and stating "solid plug".

Received

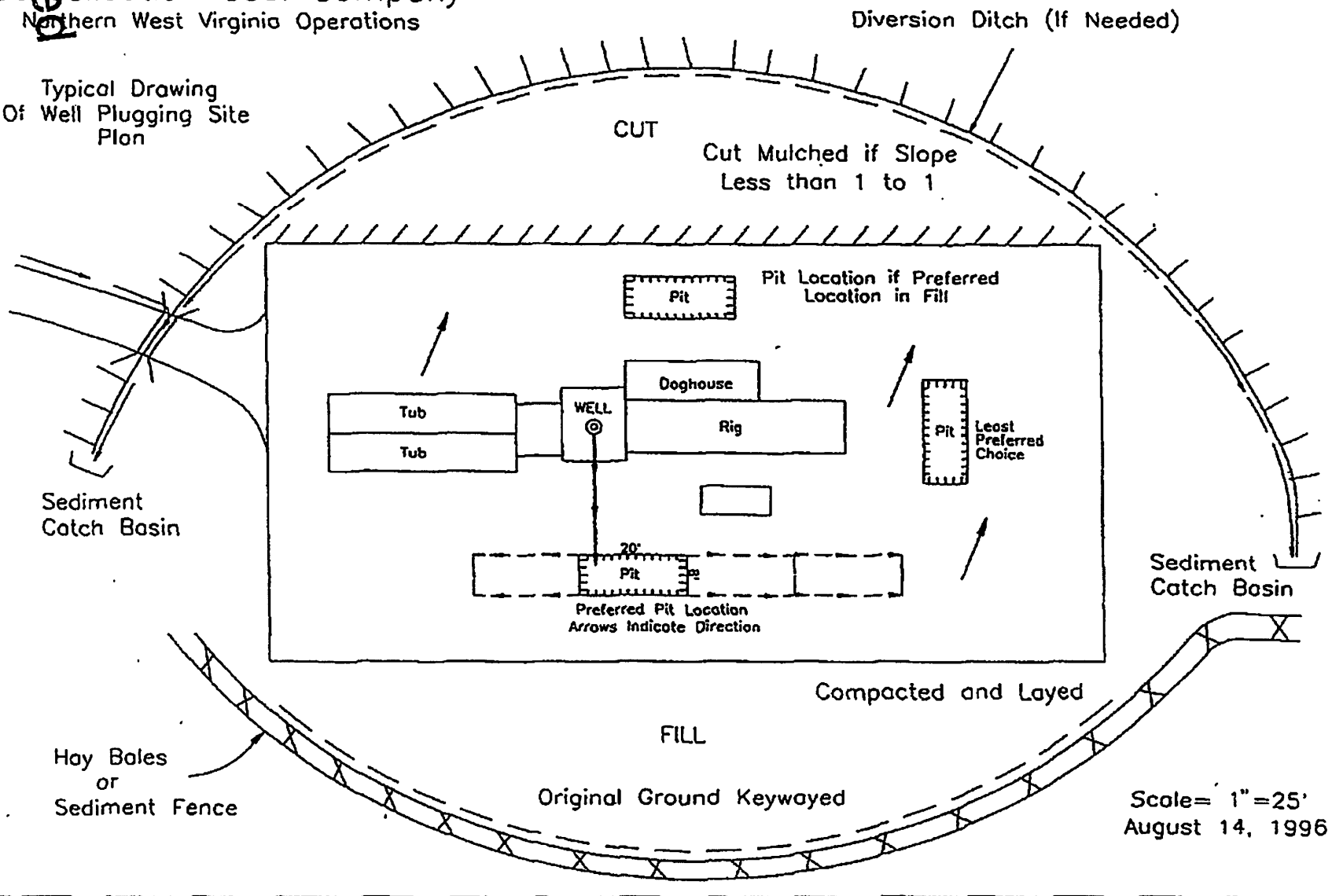
JUL 1 2013

JUL 1 2013

Received

Consolidation Coal Company  
Northern West Virginia Operations

Typical Drawing  
Of Well Plugging Site  
Plan



Scale = 1" = 25'  
August 14, 1996

510144410

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 McElroy Coal Company OP Code \_\_\_\_\_

Watershed Unnamed Tributary to Grave Creek Quadrangle Cameron, WV 7.5' *278*

Elevation 1267.73' County Marshall *51* District Cameron *01*

Description of anticipated Pit Waste: N/A

Will a synthetic liner be used in the pit? N/A

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 See Attached Letter)

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.

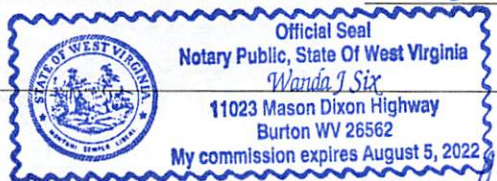
I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form and all attachments thereto and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is 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 *Adrienne Carney*

Company Official (Typed Name) Adrienne Carney

Company Official Title Senior Project Engineer

Subscribed and sworn before me this 25<sup>th</sup> day of June, 2013



*Wanda J. Six* Notary Public

Received

JUL 1 2013

My commission expires August 5, 2022

**LEGEND**

Property Boundary	Diversion
Road	Spring
Existing Fence	Wet Spot
Planned Fence	Drain Pipe with size in inches
Stream	Waterway
Open Ditch	Cross Drain
Rock	Artificial Filter Strip
North	Pit: cut walls
Buildings	Pit: compacted fill walls
Water wells	Area for Land Application of Pit Waste
Drill site	

Proposed Revegetation Treatment: Acres Disturbed \_\_\_\_\_ Prevegetation pH \_\_\_\_\_

Lime \_\_\_\_\_ Tons/acre or to correct to pH \_\_\_\_\_

Fertilizer (10-20-20 or equivalent) \_\_\_\_\_ lbs/acre (500 lbs minimum)

Mulch \_\_\_\_\_ Tons/acre

Seed Mixtures

Seed Type	Area I		Area II	
		lbs/acre		lbs/acre
_____				
_____				
_____				

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

Photocopied section of involved 7.5' topographic sheet.

Plan Approved by: \_\_\_\_\_

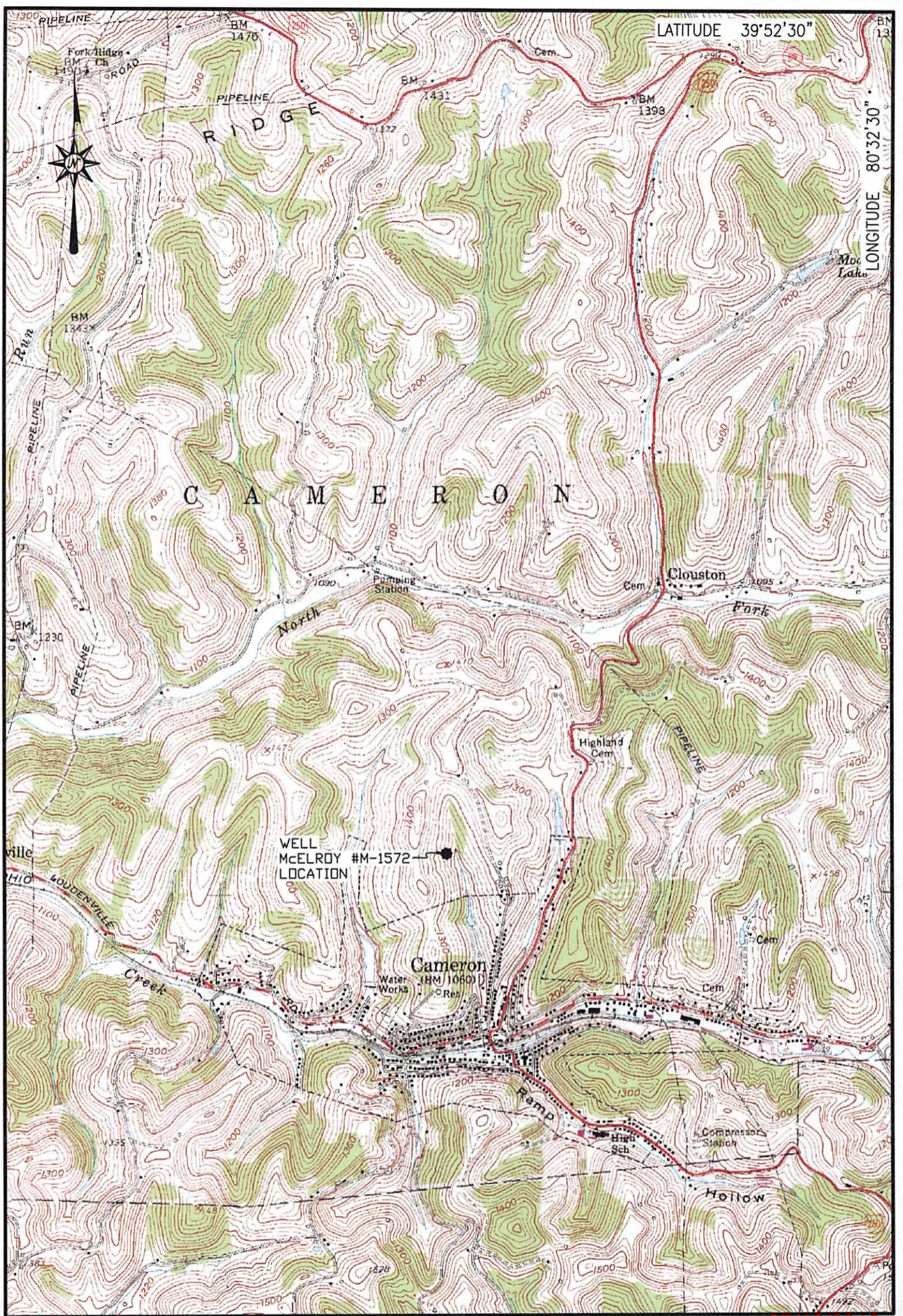
Comments: \_\_\_\_\_

Received

Title: \_\_\_\_\_ Date: \_\_\_\_\_

Field Reviewed? ( ) Yes ( ) No

JUL 1 2013



07/12/2013



**Blue Mountain Engineering**  
 11023 MASON DIXON HIGHWAY  
 BURTON, WV 26562  
 PHONE: (304) 662-6486

LOCATION MAP  
 JUNE 24, 2013

McELROY WELL # M-1572  
 CAMERON QUADRANGLE  
 WEST VIRGINIA

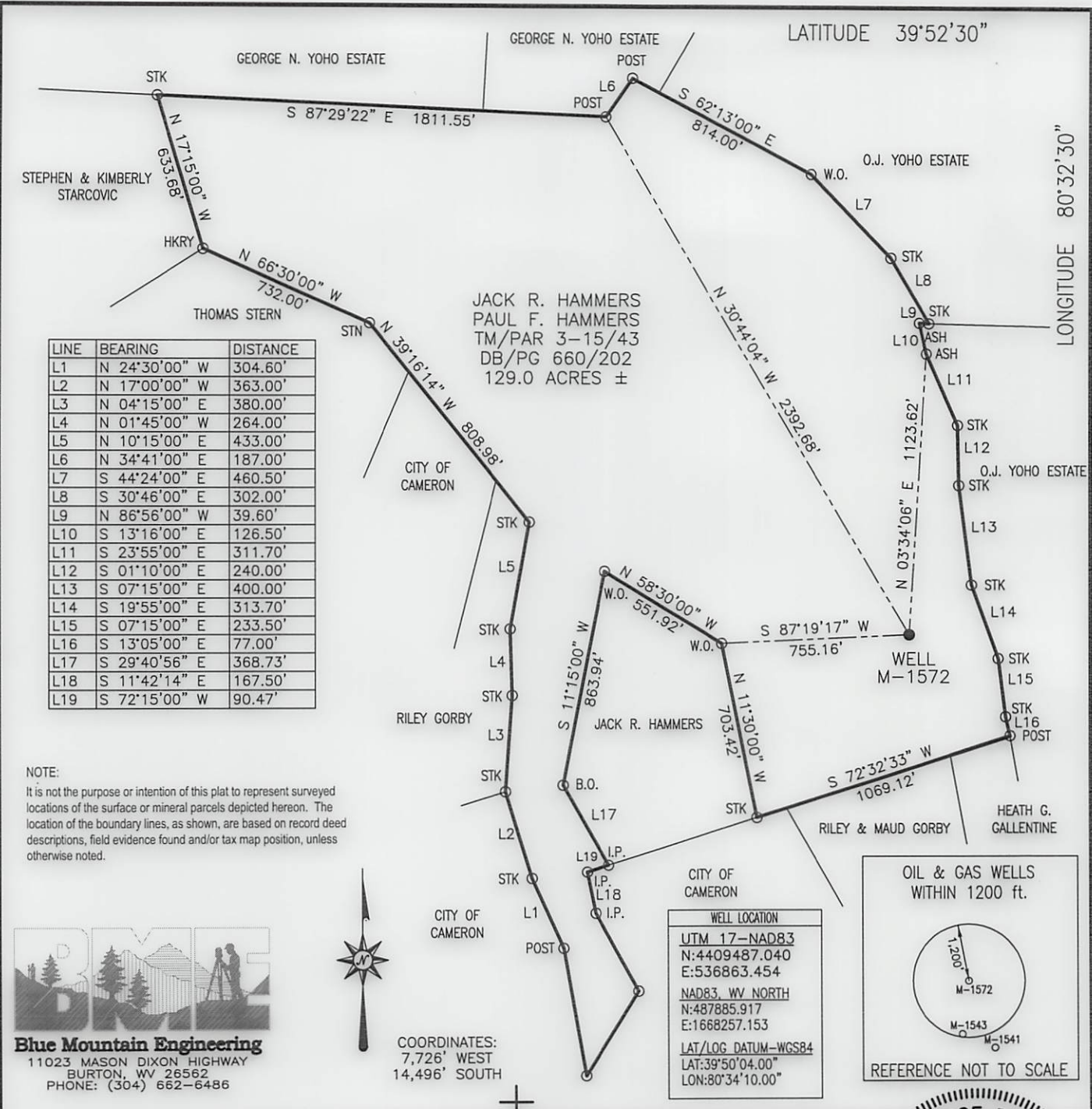
SCALE 1" = 2000'

0'      2000'      4000'      6000'



**BLUE MOUNTAIN ENGINEERING**





FILE #: M-1572  
DRAWING #: M-1572  
SCALE: 1" = 600'  
MINIMUM DEGREE OF ACCURACY: 1/2500  
PROVEN SOURCE OF ELEVATION: U.S.G.S. MONUMENT THOMAS 1498.81'

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.

Signed: *George D. Six*  
R.P.E.: \_\_\_\_\_ L.L.S.: P.S. No. 2000

**GEORGE D. SIX**  
LICENSED  
No. 2000  
STATE OF WEST VIRGINIA  
PROFESSIONAL SURVEYOR

PLACE SEAL HERE

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS WVDEP  
OFFICE OF OIL & GAS  
601 57TH STREET  
CHARLESTON, WV 25304

Well Type:  Oil  Waste Disposal  Production  Deep  
 Gas  Liquid Injection  Storage  Shallow

WATERSHED: UNNAMED TRIBUTARY TO GRAVE CREEK ELEVATION: 1267.73'  
COUNTY/DISTRICT: MARSHALL/CAMERON QUADRANGLE: CAMERON, WV-PA 7.5'  
SURFACE OWNER: JACK R. HAMMERS, PAUL F. HAMMERS ACREAGE: 129.0±  
OIL & GAS ROYALTY OWNER: \_\_\_\_\_ ACREAGE: \_\_\_\_\_

TARGET FORMATION: NONE ESTIMATED DEPTH: \_\_\_\_\_

WELL OPERATOR McELROY COAL COMPANY DESIGNATED AGENT ADRIENNE CARNEY  
Address 6126 ENERGY DRIVE Address 6126 ENERGY DRIVE  
City MOUNDSVILLE State WV Zip Code 26041 City MOUNDSVILLE State WV Zip Code 26041

DATE: JUNE 24, 2013  
OPERATOR'S WELL #: M-1572  
API WELL #: 47 51 01444 P  
STATE COUNTY PERMIT

DRILL  CONVERT  DRILL DEEPER  REDRILL  FRACTURE OR STIMULATE   
PLUG OFF OLD FORMATION  PERFORATE NEW FORMATION  PLUG & ABANDON   
CLEAN OUT & REPLUG  OTHER CHANGE  (SPECIFY): \_\_\_\_\_

07/12/2013

5101444P



McElroy Coal Company  
6126 Energy Drive  
Moundsville, West Virginia 26041

phone: 724/485-3192  
phone: 304/843-3565  
fax: 304/843-3511

June 24, 2013

Department of Environmental Protection  
Office of Oil & Gas  
601-57<sup>TH</sup> Street  
Charleston, West Virginia 25304

To Whom It May Concern:

As per the Division of Environmental Protection, Office of Oil & Gas request, McElroy Coal Company, Ohio Valley Operations, submits the following procedures utilizing pit waste.

Upon submitting a well work application (without a general permit for Oil & Gas Pit Waste Discharge Application), McElroy Coal Company, Ohio Valley Operations, will construct no pits, but instead will use mud tanks to contain all drilling muds.

Once the well is completed, that material (minus the cave material) will be trucked to the next well to be plugged or to DEP facilities number U-0033-83, O-1023-92, O-1001-00, or U-1025-91.

Sincerely,

*Adrienne Carney*  
Adrienne Carney, PE  
Senior Project Engineer



JUL 1 2013

Office of Oil and Gas  
WV Dept. of Environmental Protection  
07/12/2013