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

June 19, 2013

WELL WORK PLUGGING PERMIT

Plugging

This permit, API Well Number: 47-5101443, 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 penalities 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-1539
Farm Name: ROSS, HUBERT ,. ET. AL.
API Well Number: 47-5101443
Permit Type: Plugging
Date Issued: 06/19/2013

Promoting a healthy environment.

5101443P

WW-4B
Rev. 2/01

1) Date June 3, 2013
2) Operator's Well No. M-1539
3) API Well No. 47- 51 - 01443

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 1288.98' Watershed Grave Creek
District Cameron 01 County Marshall 51 Quadrangle Cameron, WV 7.5' 278

6) Well Operator McElroy Coal Company
Address 6126 Energy Drive
Moundsville, WV 26041

7) Designated Agent Adrienne Carney
Address 6126 Energy Drive
Moundsville, WV 26041

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

9) Plugging Contractor
Name _____
Address _____

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

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

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

Work order approved by inspector _____ Date _____

5101443P

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".

A4/ENGR/EXHIBIT1.REO

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Office of Oil and Gas
WV Dept. of Environmental Protection

5101443P

WW-4A
Revised 6-07

1) Date: June 3, 2013
2) Operator's Well Number
M-1539

3) API Well No.: 47 - 51 - 01443

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS
NOTICE 0F APPLICATION TO PLUG AND ABANDON A WELL

4) Surface Owner(s) to be served:
(a) Name: Hubert Ross et al
Address: 798 Green Valley Road
Wind Ridge, PA 15380

(b) Name
Address

(c) Name
Address

6) Inspector
Address

Telephone

5) (a) Coal Operator
Name: McElroy Coal Company
Address: 6126 Energy Drive
Moundsville, WV 26041

(b) Coal Owner(s) with Declaration
Name
Address

Name
Address

(c) Coal Lessee with Declaration
Name
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: McElroy Coal Company
By: Adrienne Carney
Its: Project Engineer / Agent
Address: 6126 Energy Drive
Moundsville, WV 26041
Telephone: 304-843-3565

Subscribed and sworn before me this 3rd day of June 2013

Notary Public

My Commission Expires Aug 5, 2022

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

Notary Public, State Of West Virginia
Wanda J Six
11023 Mason Dixon Highway
Burton WV 26562
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 depprivacyoffier@wv.gov.

5101443P

RECEIPT

In consideration of payment to the undersigned of for any and all inconvenience and damage caused by the access to, cleaning out, plugging and reclamation of the specified abandoned oil or gas well, and the obligation of McElroy Coal Company (MCC) to reclaim any disturbed lands in accordance with the requirements of applicable law, the undersigned hereby grant to McElroy Coal Company a right of way for men and materials to enter said lands and gain access to the site of well No. M-1539 and to inspect, remove fixtures and well equipment, and to plug said well, as determined by McElroy, to monitor said site after plugging as necessary, and to reclaim any disturbed lands in accordance with the requirements of applicable law.

Said lands situate in Cameron District, Marshall County, West Virginia, containing 104.8124 acres, more or less, and being the same lands described in a Deed of Record in Deed Book 643, at page 483, in the Office of the Recorder of Deeds of said County.

Received this 9 day of Apr., 2012.

WITNESS

LAND AGENT

David W. Ritz

SURFACE OWNERS

Hubert Ross

Cindy S. Ross

Randy L. Ross

Received

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WV Dept. of Environmental Protection

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WW-9
Rev. 5/08

Page _____ of _____
API Number 47 - 51 - 01443
Operator's Well No. M-1539

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 Grave Creek Quadrangle Cameron, WV 7.5'

Elevation 1288.98' County Marshall District Cameron

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 Dispposal (Supply form WW-9 for disposal location)
X Other (Explain See Attached Letter

Proposed Work For Which Pit Will Be Used:

_____ Drilling _____ Swabbing
_____ Workover X 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 Adrienne Carney

Company Official (Typed Name) Adrienne Carney

Company Official Title Senior Project Engineer

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Office of Oil and Gas
WV Dept. of Environmental Protection

Subscribed and sworn before me this 3rd day of June, 2013

Official Seal
Notary Public, State Of West Virginia
Wanda J Six
11023 Mason Dixon Highway
Burton WV 26562
My commission expires August 5, 2022

Wanda J Six Notory Public

My commission expires Aug 5, 2022

5101443P

Form WW-9

Operator's Well No. M-1539

LEGEND

Property Boundary
Road
Existing Fence
Planned Fence
Stream
Open Ditch
Rock
North N
Buildings
Water wells W
Drill site

Diversion
Spring
Wet Spot
Drain Pipe with size in inches 12
Waterway
Cross Drain
Artificial Filter Strip
Pit: cut walls
Pit: compacted fill walls
Area for Land Application of Pit Waste

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

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

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Office of Oil and Gas
WV Dept. of Environmental Protection

Title: _____ Date: _____

Field Reviewed? (_____) Yes (_____) No

5101443P

CONSOL ENERGY

McElroy Coal Company
6126 Energy Drive
Moundsville, West Virginia 26041

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

June 3, 2013

Department of Environmental Protection
Office of Oil & Gas
601-57TH 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

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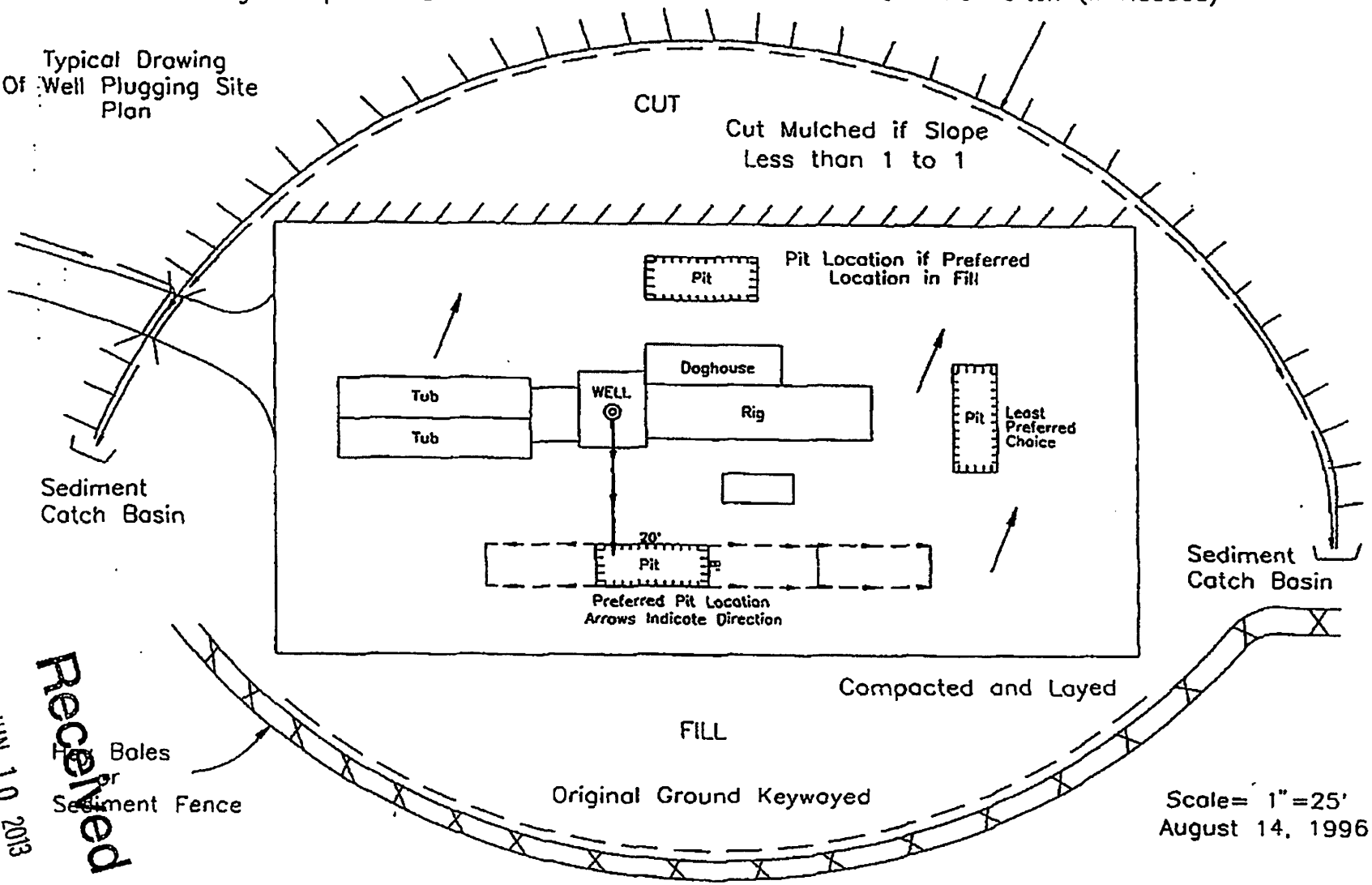
Office of Oil and Gas
WV Dept. of Environmental Protection

CONSOL ENERGY

Consolidation Coal Company
Northern West Virginia Operations

Typical Drawing
Of Well Plugging Site
Plan



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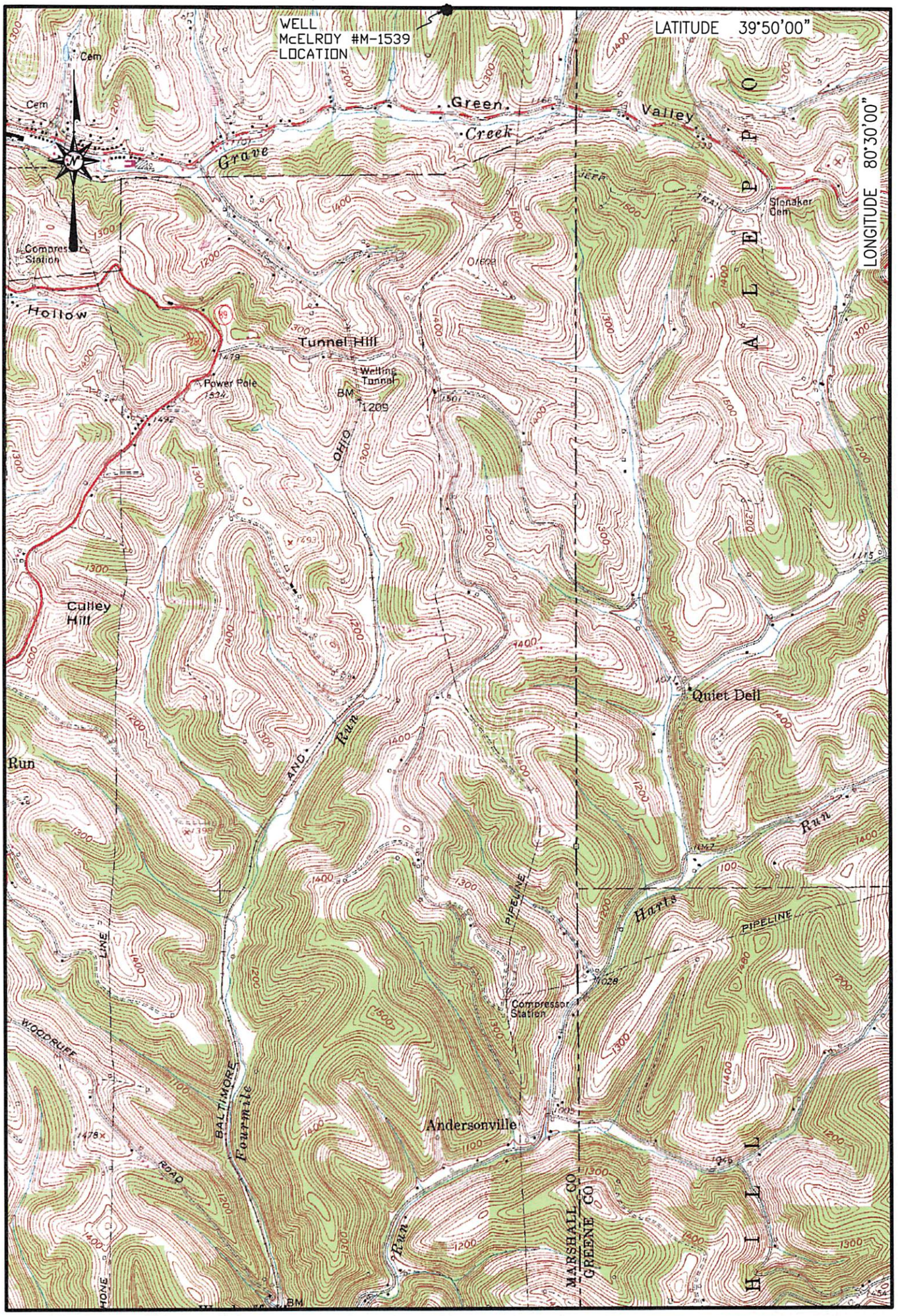


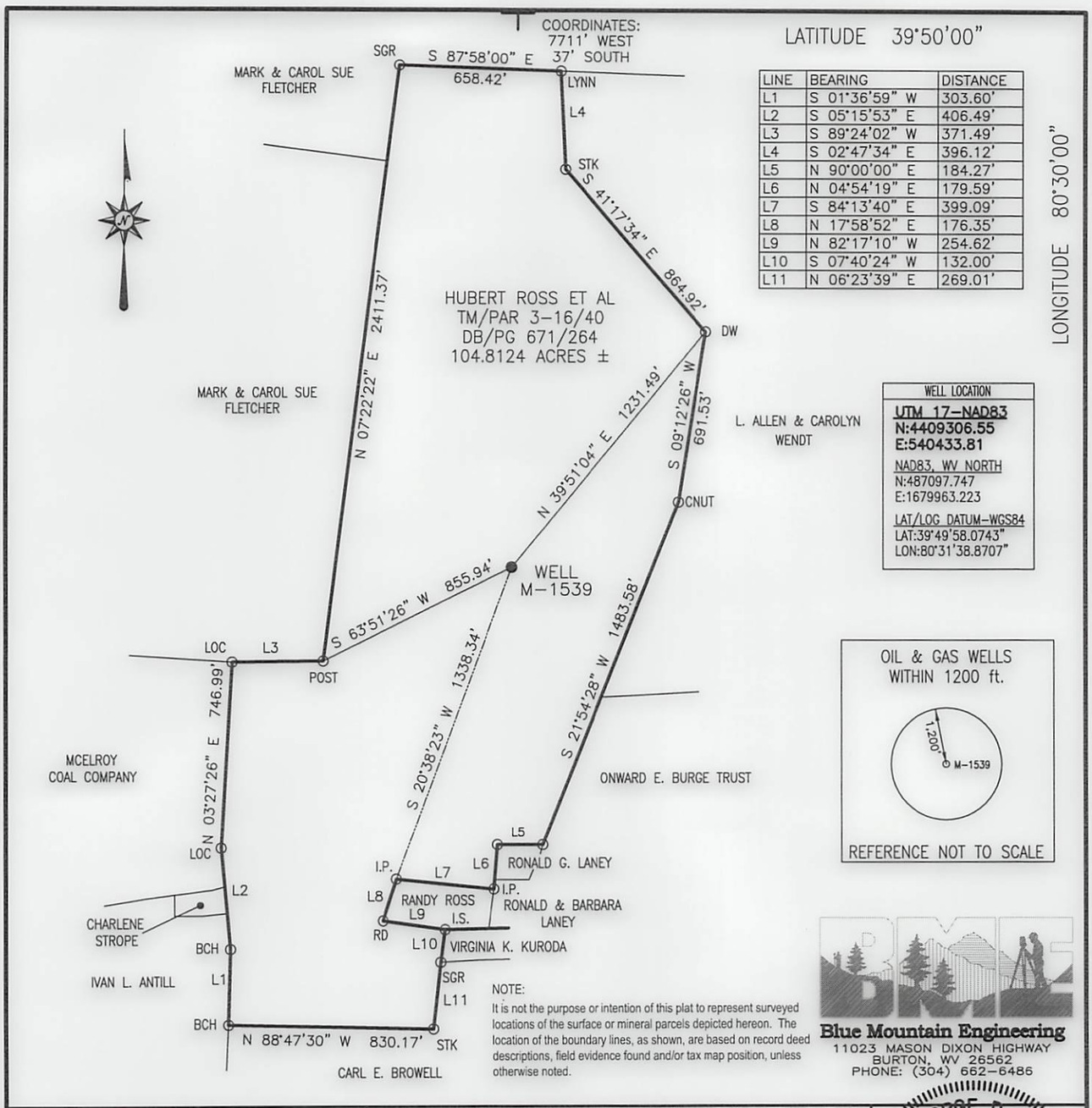
Blue Mountain Engineering
11023 MASON DIXON HIGHWAY
BURTON, WV 26562
PHONE: (304) 662-6486

LOCATION MAP
JUNE 3, 2013

McELROY WELL # M-1539
CAMERON QUADRANGLE
WEST VIRGINIA

SCALE 1" = 2000'
0' 2000' 4000' 6000'

BLUE MOUNTAIN ENGINEERING



LINE	BEARING	DISTANCE
L1	S 01°36'59" W	303.60'
L2	S 05°15'53" E	406.49'
L3	S 89°24'02" W	371.49'
L4	S 02°47'34" E	396.12'
L5	N 90°00'00" E	184.27'
L6	N 04°54'19" E	179.59'
L7	S 84°13'40" E	399.09'
L8	N 17°58'52" E	176.35'
L9	N 82°17'10" W	254.62'
L10	S 07°40'24" W	132.00'
L11	N 06°23'39" E	269.01'

FILE #: M-1539

DRAWING #: M-1539

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: [signature]

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

DATE: JUNE 3, 2013

OPERATOR'S WELL #: M-1539

API WELL #: 47 (STATE) 51 (COUNTY) 01443 (PERMIT)

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

WATERSHED: GRAVE CREEK ELEVATION: 1288.98'

COUNTY/DISTRICT: MARSHALL/CAMERON QUADRANGLE: CAMERON, WV-PA 7.5'

SURFACE OWNER: HUBERT ROSS ET AL ACREAGE: 104.8124 ±

OIL & GAS ROYALTY OWNER: _____ ACREAGE: _____

DRILL ☐ CONVERT ☐ DRILL DEEPER ☐ REDRILL ☐ FRACTURE OR STIMULATE ☐

PLUG OFF OLD FORMATION ☐ PERFORATE NEW FORMATION ☐ PLUG & ABANDON ☒

CLEAN OUT & REPLUG ☐ OTHER CHANGE ☐ (SPECIFY): _____

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