



**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 21, 2014

**WELL WORK PLUGGING PERMIT**

**Plugging**

This permit, API Well Number: 47-5100380, issued to CONSOLIDATION 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.

A blue ink signature of James Martin, Chief, is written over the text.

James Martin  
Chief

Operator's Well No: 4567  
Farm Name: ELDER, MAY  
**API Well Number: 47-5100380**  
**Permit Type: Plugging**  
Date Issued: 07/21/2014

**Promoting a healthy environment.**

**07/25/2014**

## 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.

5106380P

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

1.) Date: June 17, 2014  
2.) Operator's Well No. SGW-108  
3.) API Well No. 47 - 51 - 00380  
State County Permit

STATE OF WEST VIRGINIA  
DIVISION OF ENVIRONMENTAL PROTECTION  
OFFICE OF OIL & GAS  
APPLICATION FOR A PERMIT TO PLUG & ABANDON

4.) WELL TYPE: Oil \_\_\_\_\_ / Gas X / Liquid injection \_\_\_\_\_ / Waste disposal \_\_\_\_\_ /  
(IF "Gas", Production \_\_\_\_\_ / Underground storage \_\_\_\_\_ / Deep \_\_\_\_\_ / Shallow X)

5.) LOCATION: Elevation: 1276.28' Watershed: Unnamed Tributary to Dunkard Creek  
District: Webster 9 County: Marshall Quadrangle: Majorsville 7.5' 453

6.) WELL OPERATOR Consolidation Coal Company 7.) DESIGNATED AGENT Christian Warfield  
Address 6126 Energy Road Address 6126 Energy Road  
Moundsville, WV 26041 Moundsville, WV 26041

8.) OIL & GAS INSPECTOR TO BE NOTIFIED 9.) PLUGGING CONTRACTOR  
Name James Nicholson Name \_\_\_\_\_  
Address PO BOX 44 Address \_\_\_\_\_  
Moundsville, WV 26041 \_\_\_\_\_

10.) WORK ORDER: The work order for the manner of plugging this well is as follows:

SEE EXHIBIT NO. 1

101C

*Jmm  
ck*

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

Received

Work order approved by inspector \_\_\_\_\_ Date JUN 30 2014

Office of Oil and Gas  
WV Dept. of Environmental Protection

07/25/2014

101C

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.REQ

Received

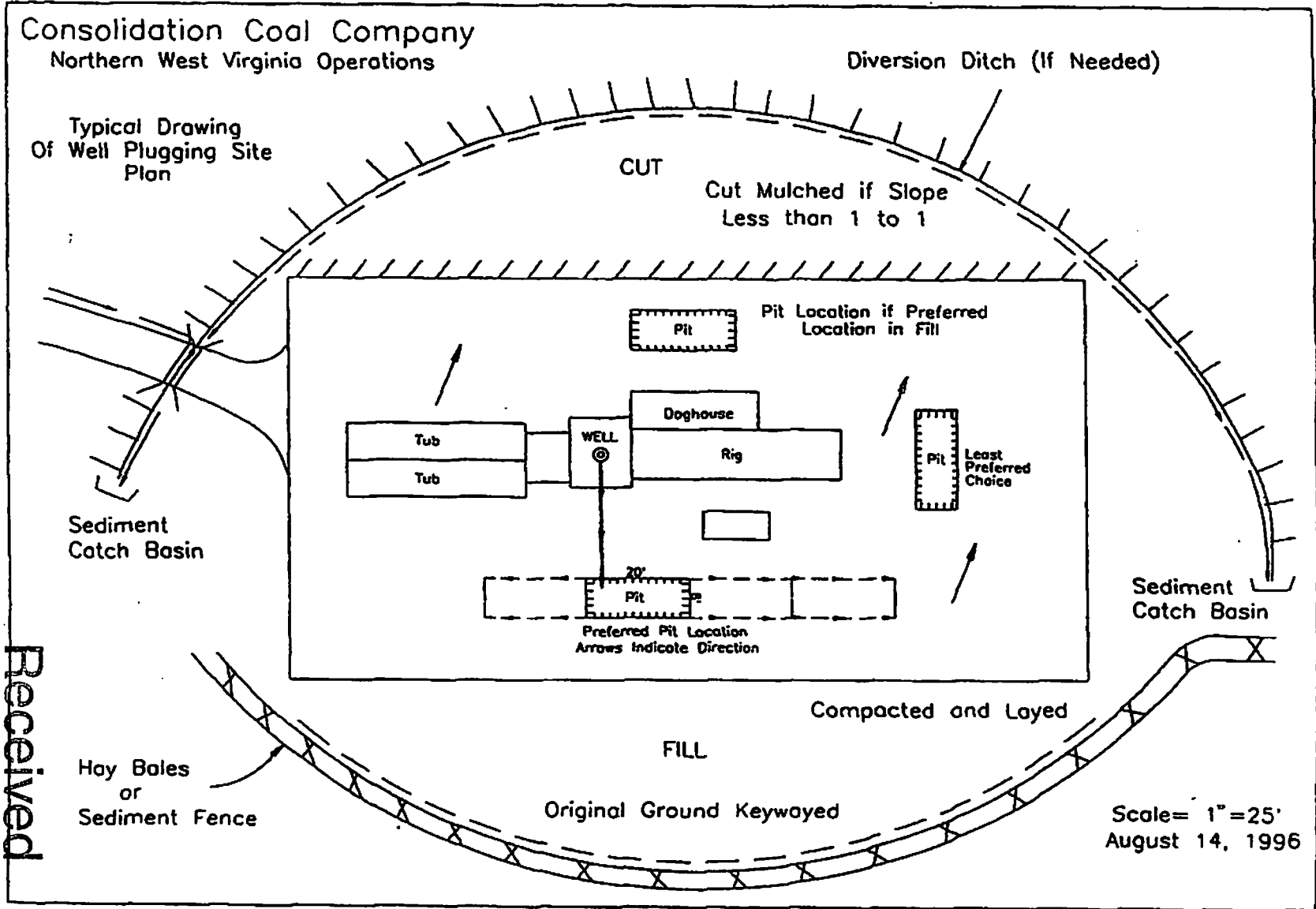
JUN 30 2014

Office of Oil and Gas  
WV Dept. of Environmental Protection

07/25/2014

Consolidation Coal Company  
Northern West Virginia Operations

Typical Drawing  
Of Well Plugging Site  
Plan



Received

JUN 30 2014

Office of Oil and Gas  
WV Dept. of Environmental Protection

S1003&0 P

SI00380P

1) Date: June 17, 2014  
2) Operator's Well No. SGW-108  
3) API Well No. 47-51-00380  
State County Permit

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  
(a) Name Brian K. Milliken ✓  
Address 3732 Wickham Circle NW  
Uniontown, OH 44685  
  
(b) Name \_\_\_\_\_  
Address \_\_\_\_\_  
  
(c) Name \_\_\_\_\_  
Address \_\_\_\_\_  
  
(6) INSPECTOR \_\_\_\_\_  
Address \_\_\_\_\_  
  
Telephone \_\_\_\_\_

5)a) COAL OPERATOR  
Name CONSOLIDATION COAL CO.  
Address 6126 Energy Road  
Moundsville, WV 26041  
  
(b) COAL OWNER(S) WITH DECLARATION:  
Name \_\_\_\_\_  
Address \_\_\_\_\_  
  
(c) COAL LESSEE WITH DECLARATION:  
Name \_\_\_\_\_  
Address \_\_\_\_\_

TO THE PERSON(S) 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 and its location 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 REVERSE SIDE OF THE COPY OF THE APPLICATION (FORM WW-4(B) DESIGNATED FOR YOU. HOWEVER, YOU ARE NOT REQUIRED TO TAKE ANY ACTION AT ALL.

Take notice 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 delivery by hand to the person(s) named above (or by publication in certain circumstances) on or before the day of mailing or delivery by the Chief.

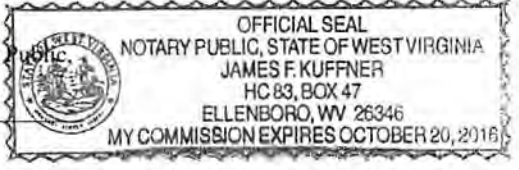
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JUN 30 2014

Office of Oil and Gas  
WV Dept. of Environmental Protection

WELL OPERATOR Consolidation Coal Company  
By Christian Warfield *Christian Warfield*  
Its Project Engineer / Agent  
Address 6126 Energy Road  
Moundsville, WV 26041  
Telephone 304-843-3535

Subscribed and sworn before me this 27 day of JUNE, 20 14  
James F. Kuffner Notary Public  
MARSHALL County, State of WEST Virginia  
My commission expires OCT. 20, 20 16



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).

07/25/2014

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U.S. Postal Service™  
**CERTIFIED MAIL™ RECEIPT**  
(Domestic Mail Only; No Insurance Coverage Provided)

For delivery information visit our website at [www.usps.com](http://www.usps.com)

UNIONTOWN OH 44695  
OFFICIAL USE

56W  
107  
108

Postage	\$	\$2.03	0797
Certified Fee		\$3.30	
Return Receipt Fee (Endorsement Required)		\$2.70	
Restricted Delivery Fee (Endorsement Required)		\$0.00	
<b>Total Postage &amp; Fees</b>	<b>\$</b>	<b>\$8.03</b>	



Sent to **BRIAN K. MILLIKEN** ✓

Street, Apt. No.,  
or PO Box No. **3723 WICKHAM CIRCLE NW**

City, State, ZIP+4 **UNIONTOWN OH 44695**

PS Form 3800, August 2005 See Reverse for Instructions.

Received

JUN 30 2014

Office of Oil and Gas  
WV Dept. of Environmental Protection

07/25/2014

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 Consolidation Coal Company OP Code \_\_\_\_\_

Watershed Unnamed Tributary to Dunkard Creek Quadrangle Majorsville, 7.5'

Elevation 1276.28' County Marshall District Webster

Description of anticipated Pit Waste: N/A

Do you anticipate using more than 5,000 bbls of water to complete the proposed well work? Yes \_\_\_\_\_ No X

Will a synthetic liner be used in the pit? N/A. If so, what 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 Tanks, see attached letter)

Drilling medium anticipated for this well? Air, freshwater, oil based, etc. Freshwater  
If oil based, what type? Synthetic, petroleum, etc.? \_\_\_\_\_

Additives to be used? Bentonite, Bicarbonate of Soda

Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc. Reused or Disposed (see attached letter)  
-If left in pit and plan to solidify what medium will be used? Cement, lime, sawdust \_\_\_\_\_  
-Landfill or offsite name/permit number? \_\_\_\_\_

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 Christian Warfield

Company Official (Typed Name) Christian Warfield

Company Official Title Project Engineer

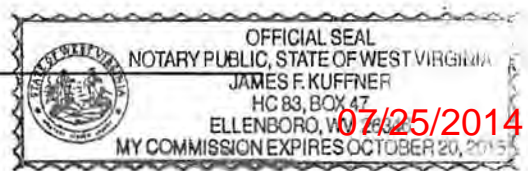
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JUN 30 2014

Subscribed and sworn before me this 27 day of JUNE, 2014 Office of Oil and Gas  
of Environmental Protection

James F. Kuffner Notary Public

My commission expires OCT. 20 2016





5100380P

**MURRAY AMERICAN ENERGY, INC.  
& CONSOLIDATION COAL COMPANY**

**MURRAY AMERICAN ENERGY,  
INC. & CONSOLIDATION COAL  
COMPANY**

46226 National Road  
St. Clairsville, OH 43950

phone: 304.843.3535

fax: 304.843.3546

e-mail: [ChristianWarfield@coalsource.com](mailto:ChristianWarfield@coalsource.com)

**CHRISTIAN WARFIELD**

Project Engineer

June 25, 2014

Department of Environmental Protection  
Office of Oil and Gas  
601-57<sup>th</sup> Street  
Charleston, WV 25320

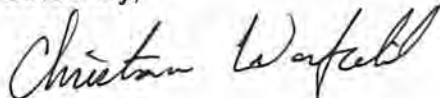
To Whom It May Concern,

As per the Division of Environmental Protection, Office of Oil and Gas request, Consolidation Coal Company submits the following procedures utilizing pit waste.

Upon submitting a well work application (without a general permit for Oil & Gas Pit Waste Discharge Application), Consolidation Coal Company 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-1001-00, U-1035-91U-46-84, U-78-83, O-1044-9, or U-100-83.

Sincerely,



Christian Warfield  
Project Engineer

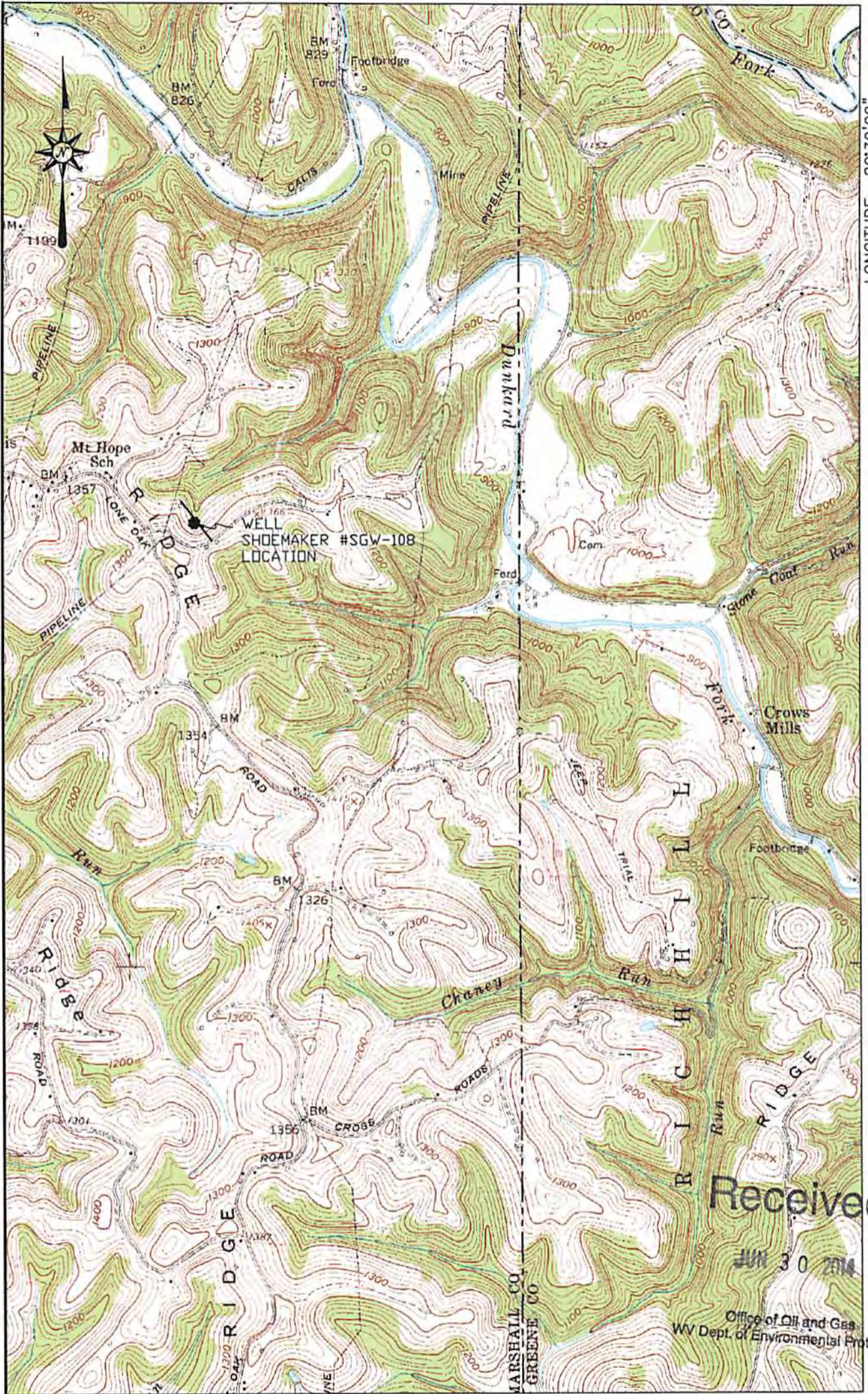
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Office of Oil and Gas  
WV Dept. of Environmental Protection  
07/25/2014

LATITUDE 39°57'30"

LONGITUDE 80°30'00"



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Office of Oil and Gas  
WV Dept. of Environmental Protection

07/25/2014

LOCATION MAP  
JUNE 23, 2014

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

SHOEMAKER WELL # SGW-108  
 MAJORSVILLE QUADRANGLE  
 WEST VIRGINIA - PENNSYLVANIA 0'

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



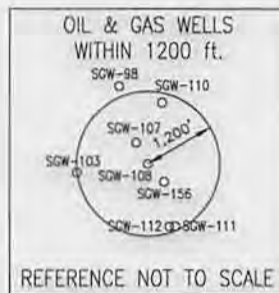
**BLUE MOUNTAIN INC.**

Well is located on topo map 8,192 feet south of Latitude: 39° 57' 30"

Well is located on topo map 10,607 feet west of Longitude: 80° 30' 00"



WELL LOCATION	
UTM 17-NAD83	
N:4420750.11	
E:539506.04	
NAD83, WV NORTH	
N:524700.275	
E:1677546.874	
LAT/LON DATUM-WGS84	
LAT:39.935944916	
LOX:-80.537614282	



LINE	BEARING	DISTANCE
L1	S 89°35'00" W	190.10'
L2	N 32°27'00" E	319.00'
L3	N 02°07'00" E	582.00'
L4	N 25°48'00" W	430.00'
L5	N 43°03'00" W	198.00'
L6	N 10°13'00" W	315.00'
L7	N 30°00'00" W	163.00'
L8	N 38°32'00" W	536.00'
L9	N 12°27'00" W	281.00'
L10	N 25°15'00" E	203.00'
L11	N 50°35'00" E	244.00'
L12	N 76°02'00" E	231.00'
L13	N 78°45'00" E	49.50'
L14	N 68°30'00" E	231.00'
L15	N 59°30'00" E	94.00'
L16	N 44°45'00" E	86.00'
L17	N 88°15'00" E	600.00'
L18	N 73°15'00" E	510.00'
L19	S 01°45'00" W	831.00'
L20	S 02°45'00" W	730.00'

NOTE:  
It is not the purpose or intention of this plat to represent surveyed locations of the surface or mineral parcels depicted hereon. The location of the boundary lines, as shown, are based on record deed descriptions, field evidence found and/or tax map position, unless otherwise noted.

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

FILE #: SGW-108  
DRAWING #: SGW-108  
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 23, 2014  
OPERATOR'S WELL #: SGW-108  
API WELL #: 47 51 00380 P  
STATE COUNTY PERMIT

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

WATERSHED: DUNKARD FORK ELEVATION: 1276.28'  
COUNTY/DISTRICT: MARSHALL/WEBSTER QUADRANGLE: MAJORSVILLE, WV-PA 7.5'  
SURFACE OWNER: BRIAN K. MILLIKEN ACREAGE: 93.628±  
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 CONSOLIDATION COAL CO. DESIGNATED AGENT ALEX O'NEIL  
Address 6126 ENERGY ROAD Address 6126 ENERGY ROAD  
City MOUNDSVILLE State WV Zip Code 26041 City MOUNDSVILLE State WV Zip Code 26041

07/25/2014