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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 28, 2014

**WELL WORK PLUGGING PERMIT**

**Plugging**

This permit, API Well Number: 47-500309, issued to CHESAPEAKE APPALACHIA, L.L.C., 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: 4617  
Farm Name: MOHLER LUMBER CO  
**API Well Number: 47-500309**  
**Permit Type: Plugging**  
Date Issued: 07/28/2014

**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

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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.

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

1) Date: 7/9/2014  
2) Operator's Well No. 804617 P&A  
3) API Well No. 47-005-00309

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 X Liquid injection        Waste disposal         
(Is Gas, Production X or Underground storage       ) Deep        Shallow X
- 5) Location: Elevation 1,009' Watershed Hog Trough Fork of Dicks Creek  
District Scott County Boone Quadrangle Julian, WV 7.5'
- 6) Well Operator Chesapeake Appalachia, L.L.C. 7) Designated Agent Eric B. Gillespie  
Address P.O. Box 18496 Address P.O. Box 6070  
Oklahoma City, OK 73154-0496 Charleston, WV 25362
- 8) Oil and Gas Inspector to be notified Name Ross Eller  
Address 121 Brierhill Drive  
Beckley, WV 25801
- 9) Plugging Contractor Name Chesapeake Appalachia, L.L.C.  
Address P.O. Box 18496  
Oklahoma City, OK 73154-0496

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

See Attached Sheet

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

Work Order approved by Inspector



Date

7/20/14

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## 804617 P&amp;A Procedure

- 1) Prepare road and location, MIRU Service Rig
- 2) RIH with tools to check top of cavings at approximately 2200'
- 3) Attempt to pull 3 ½" and packer
  - A) If successful:
    - a) Run W.S. to 2250', load hole with gel
    - b) Spot 150' cement plug 2250' – 2100'
    - c) Proceed to step #4
  - B) If unsuccessful:
    - a) Cut 3 ½" at free-point (approximately 2215')
    - b) Either spot plugs through 3 ½" or pull 3 ½" and run W.S. to 2215', load hole with gel
    - c) Spot 150' cement plug 2215' – 2065'
    - d) Proceed to step #4
- 4) Pull pipe to 1800'
- 5) Spot 100' cement plug 1800' – 1700', pull W.S. to 1675'
- 6) Spot 100' cement plug 1625' – 1525', pull W.S.
- 7) RIH with tools to check top of plug. If TOC is below 1550', then re-spot plug.
- 8) Cut 6 5/8" at free-point (approximately 700') and pull
- 9) Run W.S. to 700', load hole with gel
- 10) Spot 100' cement plug 700' – 600', pull W.S.
- 11) Attempt to pull 8 ¼" casing
  - A) If successful:
    - a) Run W.S. to 570', load hole with gel
    - b) Spot 100' cement plug 570' – 470', pull W.S. to 425'
    - c) Spot 160' cement plug 425' – 265', pull W.S. to 120'
    - d) Spot 170' cement plug 120' – surface
    - e) Proceed to step #13
  - B) If unsuccessful:
    - a) Rip or perforate holes at all coal seams below free-point
    - b) Run W.S. to top of previous plug at 600'
    - c) Spot 100' cement plug 600' – 500', pull W.S. to 425'
    - d) Spot 160' cement plug 425' – 265', pull W.S. to 120'
    - e) Spot 120' cement plug 120' – surface
    - f) Proceed to step #13
- 12) NOTE: In step 11B above: W.S. will need to be pulled at free-point in 8 ¼" casing. Then 8 ¼" will be cut and pulled. Then W.S. ran back to cut and a 100' plug spotted at cut.
- 13) Pull W.S. and top off with cement
- 14) Erect monument and reclaim as prescribed by law

Received

JUL 11 2014

Office of Oil and Gas  
WV Dept. of Environmental Protection

★ TRY TO PULL 10" CASING

WEST VIRGINIA DEPARTMENT OF MINES  
OIL AND GAS DIVISION

WELL RECORD

Well # 804617 PMA  
API # 47-005-00309  
Page 1 of 2

Oil or Gas Well... GAS  
(Kind)

Permit No. Boo-309

Company United Fuel Gas Company  
 Address Box 1256, Charleston, West Virginia  
 Farm Mohler Lumber Company Acres 3,000  
 Location (waters) Dick's Creek  
 Well No. 4617 Elev. 1005  
 District Scott County Boone  
 The surface of tract is owned in fee by Mohler Lumber Company Address Charleston, W. Va.  
 Mineral rights are owned by Same Address \_\_\_\_\_  
 Drilling commenced August 20, 1936  
 Drilling completed November 12, 1936  
 Date shot 11-13-36 Depth of shot \_\_\_\_\_  
 Open Flow 12 /10ths Water in \_\_\_\_\_ Inch  
12 /10ths Merc. in 2 Inch  
 Volume \_\_\_\_\_ 680 M Cu. Ft.  
 Rock Pressure 360 lbs. 48 hrs.  
 Oil \_\_\_\_\_ bbls., 1st 24 hrs.  
 Fresh water None feet \_\_\_\_\_ feet  
 Salt water \_\_\_\_\_ feet \_\_\_\_\_ feet

Casing and Tubing	Used in Drilling	Left in Well	Packers
Size			
16			Kind of Packer
13			Hook Wall
10	60'-9"	60'-9"	Size of 3"x6-5/8"
8 1/4	582'-4"	582'-4"	
6 5/8	1588'-10"	1588'-10"	Depth set 2243
5 3/16			
3		2260'-10"	Perf. top None
2			Perf. bottom
Liners Used			Perf. top
			Perf. bottom

CASING CEMENTED	SIZE	No. FT.	Date
COAL WAS ENCOUNTERED AT	<u>54</u> FEET	<u>36</u> INCHES	
	<u>82</u> FEET	<u>36</u> INCHES	<u>300</u> FEET <u>48</u> INCHES
	<u>392</u> FEET	<u>36</u> INCHES	<u>533</u> FEET <u>60</u> INCHES

Formation	Color	Hard or Soft	Top	Bottom	Oil Gas or Water	Depth Found	Remarks
and			0	50			
late			50	54			
oal			54	57			
and			57	82			
oal			82	85			
late			85	120			
and			120	200			
lack Lime			200	230			
and			230	300			
oal			300	304			
late			304	370			
late			370	392			
oal			392	395			
late			395	405			
and			405	435			
late & Shells			435	533			
oal			533	538			
and			538	560			
late & Shells			560	600			
ime			600	610			
late & Shells			610	623			
ime			623	635			
alt Sand			635	780			
late & Shells			780	860			
alt Sand			860	1028			
lack Lime			1028	1170			
alt Sand			1170	1312			
lack Slate			1312	1325			
axon Sand			1325	1370			
late			1370	1382			
ed Rock			1382	1392			
late Shells			1392	1430			
ed Rock			1430	1455			
ime Shell			1455	1500			
ittle Lime			1500	1537			
encil Cave			1537	1544			
ig Lime			1544	1758			
ig Injun			1758	1805	Show Gas	1609'	
eir Shells			1805	1950	Gas show oil	1609'	
late Shells			1950	2080			
ime			2080	2120			



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Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth Found	Remarks
Stray Sand			2120	2160			Well 804617 P4A API 47-005-00309 Page 2 of 2
Lime			2160	2175			
Slate & Shells			2175	2222			
Brown Shale			2222	2231			
Berea Grit			2231	2246	Gas	2235-2239	
Lime Shell			2246	2253			
Slate			2253	2257			
Lime Shell			2257	2269			
White Slate			2269	2405			
Lime Shell			2405	2430			
Slate & Shells			2430	2610			
Lime Shell			2610	2640			
Slate & Shells			2640	2790			
Hard Lime			2790	2825			
Slate & Shells			2825	3410	Gas	2926-2933	
Brown Shale			3410	3490	Gas	3074-3078	
Lime Shells			3490	3530	Gas	3115-3125	
Lime Shells			3530	3665	Gas	3240-3250	
Brown Shale			3665	3905	Gas	3324-3330	
White Slate			3905	4300	Gas	3470-3480	
Brown Shale			4300	4553	Gas	3536-3543	
Corniferous Lime			4553	4559			
Total Depth			4559				

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WV Department of  
Environmental Protection  
Date: January 15, 1936

APPROVED: UNITED FUEL GAS COMPANY, Owner  
By: *J.A. Cunningham*  
(Title) Chief Engineer.

WW4-A  
Revised  
2/01

1) Date: 7/10/2014  
2) Operator's Well No. 804617 P&A  
3) API Well No. 47-005-00309

STATE OF WEST VIRGINIA - BUREAU OF ENVIRONMENT  
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 Mohler Lumber Company  
Address C/O William E. Mohler  
P.O. Box 1669  
Charleston, WV 25326  
(b) Name \_\_\_\_\_  
Address \_\_\_\_\_  
(c) Name \_\_\_\_\_  
Address \_\_\_\_\_  
6) Inspector Ross Eller  
Address 121 Brierhill Drive  
Beckley, WV 25801  
Telephone 304-932-6844

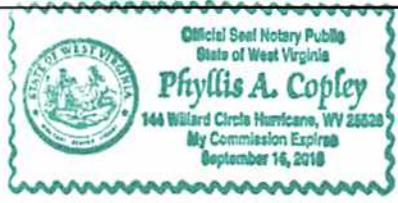
5) Coal Operator  
(a) Name Coal River Energy  
Address P.O. Box 79  
Alum Creek, WV 25003  
Coal Owner(s) with Declaration  
(b) Name Mohler Lumber Company  
Address C/O William E. Mohler  
P.O. Box 1669  
Charleston, WV 25326  
Name \_\_\_\_\_  
Address \_\_\_\_\_  
Coal Lessee with Declaration  
(c) Name Coal River Energy  
Address P.O. Box 79  
Alum Creek, WV 25003

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 the 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 the 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: Chesapeake Appalachia, L.L.C.  
By: [Signature]  
Its: Manager - Operations, Appalachia South  
Address: P.O. Box 18496  
Oklahoma City, OK 73154-0496  
Telephone: 405-935-4073

Subscribed and sworn before me this 10th day of July the year of 2014

My Commission Expires September 16, 2018

Notary Public

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JUL 10 2014  
WV Department of  
Environmental Protection

500309P

Coal River Energy

FORM WW-4 (B)  
Reverse

Farm Name Mohler Lumber - Robin Land Company  
API No. 47-005-00309  
Well No. 804617 P&A

**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 Department 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 X / 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: 7/9/14

By: David E. [Signature]

Its: Environmental Affairs

**Received**

JUL 21 2014

Office of Oil and Gas  
WV Dept. of Environmental Protection

Coal River Energy  
Revised  
500309A

FORM WW-4 (B)  
Reverse

Farm Name \_\_\_\_\_  
API No. 47-005-00309  
Mohler Lumber Company  
Well No. 804617 P&A

**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 Department 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 X / owner \_\_\_\_\_ / lessee X / 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.

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JUL 22 2014  
WV Department of  
Environmental Protection

Date: 7/18/14

By: [Signature]  
Its: Designated Agent

500309P  
Mohler Lumber

FORM WW-4 (B)  
Reverse

API No. 47-005-00309  
Farm Name Mohler Lumber Company  
Well No. 804617 P&A

**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 Department 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 X / 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: 7/10/14

*Mohler Lumber Company*  
By: William E. Mohler III  
Its: President

**Received**

JUL 21 2014

Office of Oil and Gas  
WV Dept. of Environmental Protection

### SURFACE OWNER WAIVER

Operator's Well Number 804617 P&A

#### 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  
Department of Environmental Protection  
601 57th Street  
Charleston, WV 25304  
(304) 926-0499

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

Name: Mohler Lumber Company  
By: William F Mohler III  
Its: President

William F Mohler III 7/10/14  
Signature Date

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500309P

7012 3460 0000 4499 3071

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ALUM CREEK, WV 25003

Postage	\$ 11.40	0523
Certified Fee	\$ 3.30	01
Return Receipt Fee (Endorsement Required)	\$ 2.70	Postmark Here
Restricted Delivery Fee (Endorsement Required)	\$ 0.00	
<b>Total Postage &amp; Fees</b>	<b>\$ 17.40</b>	<b>07/09/2014</b>

Sent To: **804617 P&A**  
 Coal River Energy  
 1 Fork Creek Road  
 Alum Creek, WV 25003

PS Form 3800

Well 804617 P&A  
API 47-005-00309

7012 3460 0000 4499 3064

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COLUMBUS, OH 43215

Postage	\$ 11.40	0523
Certified Fee	\$ 3.30	01
Return Receipt Fee (Endorsement Required)	\$ 2.70	Postmark Here
Restricted Delivery Fee (Endorsement Required)	\$ 0.00	
<b>Total Postage &amp; Fees</b>	<b>\$ 17.40</b>	<b>07/09/2014</b>

Sent To: **804617 P&A**  
 Southern Appalachian Coal Company  
 1 Riverside Plaza  
 Columbus, OH 43215-2372

PS Form 3800

7/9/14  
 Noticed wrong  
 surface/coal owner  
 as Robin Land  
 50  
 renoticed on 7/10/14  
 as Mohler Lumber

7012 3460 0000 4499 3088

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Certified Fee	\$ 3.30	01
Return Receipt Fee (Endorsement Required)	\$ 2.70	Postmark Here
Restricted Delivery Fee (Endorsement Required)	\$ 0.00	
<b>Total Postage &amp; Fees</b>	<b>\$ 17.40</b>	<b>07/09/2014</b>

Sent To: **804617 P&A**  
 Robin Land Company, LLC  
 500 Lee Street, East - Suite 900  
 Charleston, WV 25301

PS Form 3800

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Well 804617 P&A  
API 47-005-00309

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CHARLESTON, WV 25326

Postage	\$ 11.40	0522
Certified Fee	\$ 3.30	01
Return Receipt Fee (Endorsement Required)	\$ 2.70	Postmark Here
Restricted Delivery Fee (Endorsement Required)	\$ 0.00	
<b>Total Postage &amp; Fees</b>	<b>\$ 17.40</b>	<b>07/10/2014</b>

**Sent To** 804617 P&A  
 Mohler Lumber Company  
 C/O William E. Mohler  
 P.O. Box 1669  
 Charleston, WV 25326

PS Form 3800, October 2013

7012 3460 0000 4499 3057

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ALUM CREEK, WV 25003

Postage	\$ 11.40	0522
Certified Fee	\$ 3.30	01
Return Receipt Fee (Endorsement Required)	\$ 2.70	Postmark Here
Restricted Delivery Fee (Endorsement Required)	\$ 0.00	
<b>Total Postage &amp; Fees</b>	<b>\$ 17.40</b>	<b>07/10/2014</b>

**Sent To** 804617 P&A  
 Coal River Energy  
 P.O. Box 79  
 Alum Creek, WV 25003

PS Form 3800, October 2013

Revised

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WV Department of  
Environmental Protection

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 Chesapeake Appalachia, L.L.C. OP Code 494477557  
Watershed Hog Trough Fork of Dicks Creek Quadrangle Julian, WV 7.5'  
Elevation 1,009' County Boone District Scott

Description of anticipated Pit Waste: Plugging Returns/Cement

Will a synthetic liner be used in the pit? Yes 20 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 \_\_\_\_\_ )

Proposed Work For Which Pit Will Be Used:  
 Drilling  
 Workover  
 Swabbing  
 Plugging  
 Other (Explain \_\_\_\_\_ )

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 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 *David Gocke*

Company Official (Typed Name) David Gocke

Company Official Title Manager - Operations, Appalachia South

Subscribed and sworn before me this 9th day of July, 2014.

*Phyllis A. Copley* Notary Public.

My Commission Expires September 16, 2018

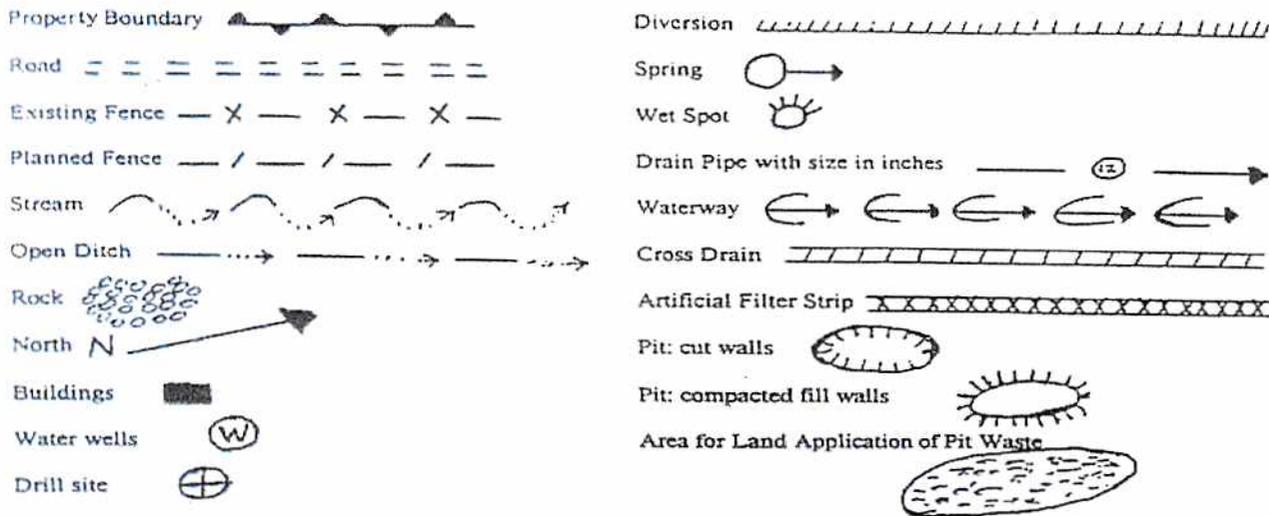


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Office of Oil and Gas  
WV Dept. of Environmental Protection

Attachment #1

API #: 47-005-00309  
 Operator's Well No. 804617 P&A

LEGEND



Proposed Revegetation Treatment: Acres Disturbed 1.0 Prevegetation pH 6.1

Lime 3 Tons/acre or to correct to pH 6.5

Fertilizer (10-20-20 or equivalent) 1/3 TON lbs/acre (500 lbs minimum)

Mulch Hay 2 Tons/acre

Seed Mixtures

Area I		Area II	
Seed Type	lbs/acre	Seed Type	lbs/acre
KY-31	40	ORCHARD GRASS	15
ALSIKE CLOVER	5	ALSIKE CLOVER	5
ANNUAL RYE	15		

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

Photocopied section of involved 7.5' topographic sheet.

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

Title: WV DEP Oil & Gas Inspector

Date: 7/10/14

Field Reviewed? (  ) Yes (  ) No

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 WV Dept. of Environmental Protection

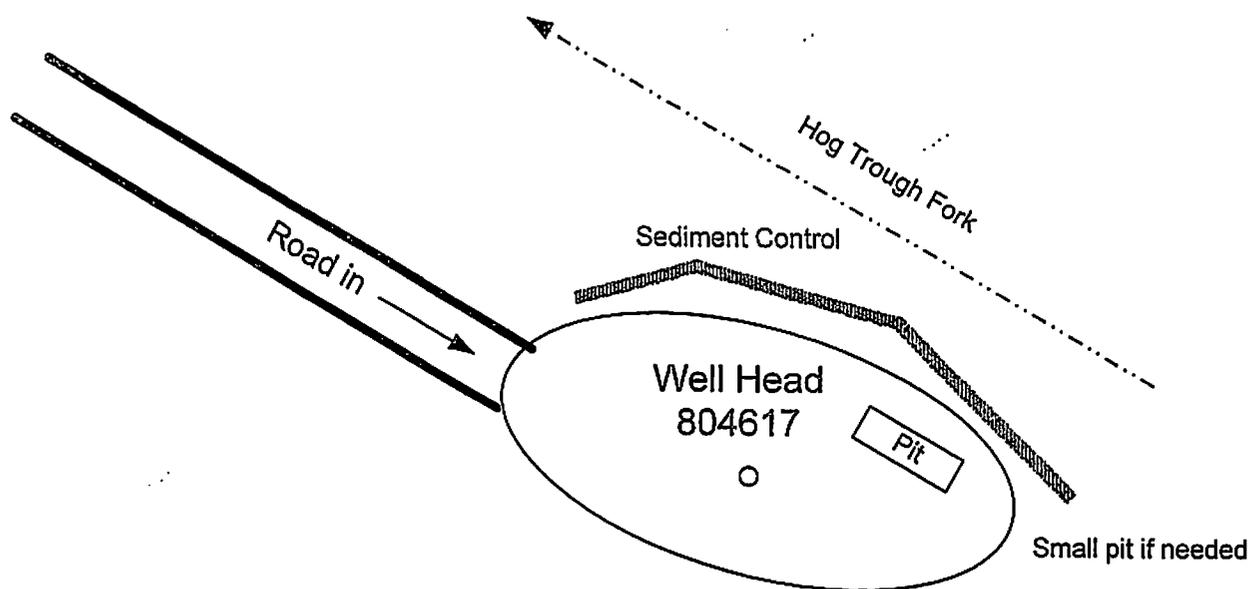
Diagram of Well Location 804617

API 47-005-00309

Field Office - Hamlin

County - Boone

Surface Owner:  
Mohler Lumber  
Company



Note: Overbonded area of  
Surface Mine Permit  
S-5008-12. Access may  
be modified before or  
during P&A process.

GENERAL NOTES

This drawing is a schematic representation of the well site and access road. Proposed structures such as well site, drilling pit, roadways, culverts sediment barriers etc. are shown in approximate pre-planning configurations.

All culvert pipes will be a minimum of 15 inches in diameter. All culvert pipes installed will be accompanied by an entrance sump with dimensions no less than 3 feet (width) x 3 feet (length) x 4 feet (deep). Culverts will be installed at an angle to ensure proper flow. The out fall of culverts will be protected from erosion and sedimentation using large rocks or other sediment controls deemed necessary in the prevention of erosion and sedimentation. Storm water from the ditches to the culverts will be directed to stable natural vegetative areas. Where culverts are not practical, operator will have other sediment control in place to minimize erosion and sedimentation.

Cross drains, broad based dips, water bars, and diversion ditches will be employed during the construction phase. These erosion and sediment control structures will be used to control erosion and sedimentation during the construction phase, where applicable and areas that will allow. These structures will be considered permanent and used as such.

Permanent seeding: See Attachment #1

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Site Plan

Office of Oil and Gas  
WV Dept. of Environmental Protection

Prepared by: Kris Aldridge  
Date: 6/30/2014

No Scale

Topographical Map of Access and

Well Location 804617

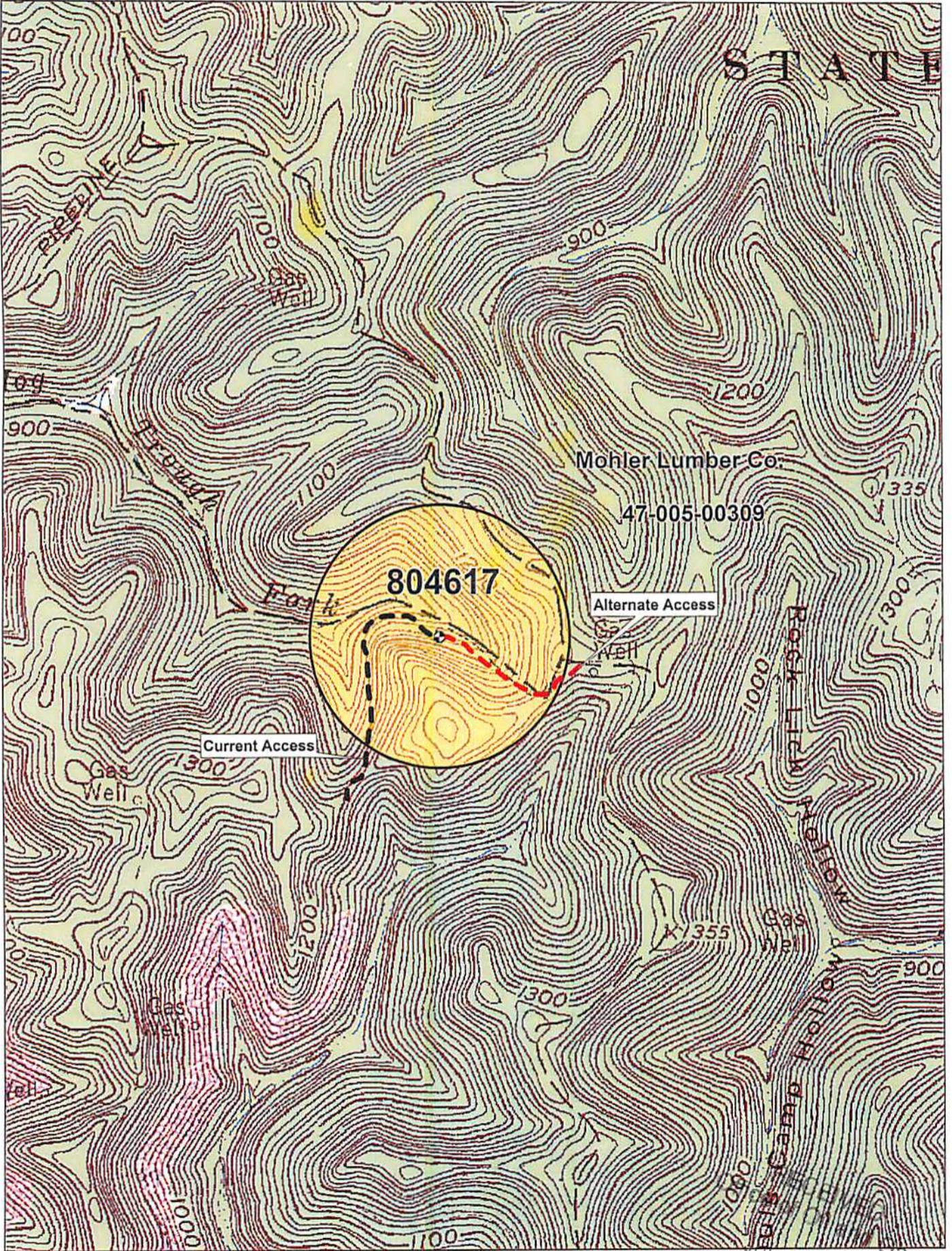
API 47-005-00309

Field Office - Hamlin

County - Boone



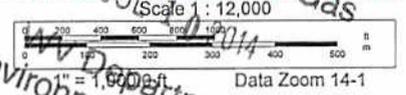
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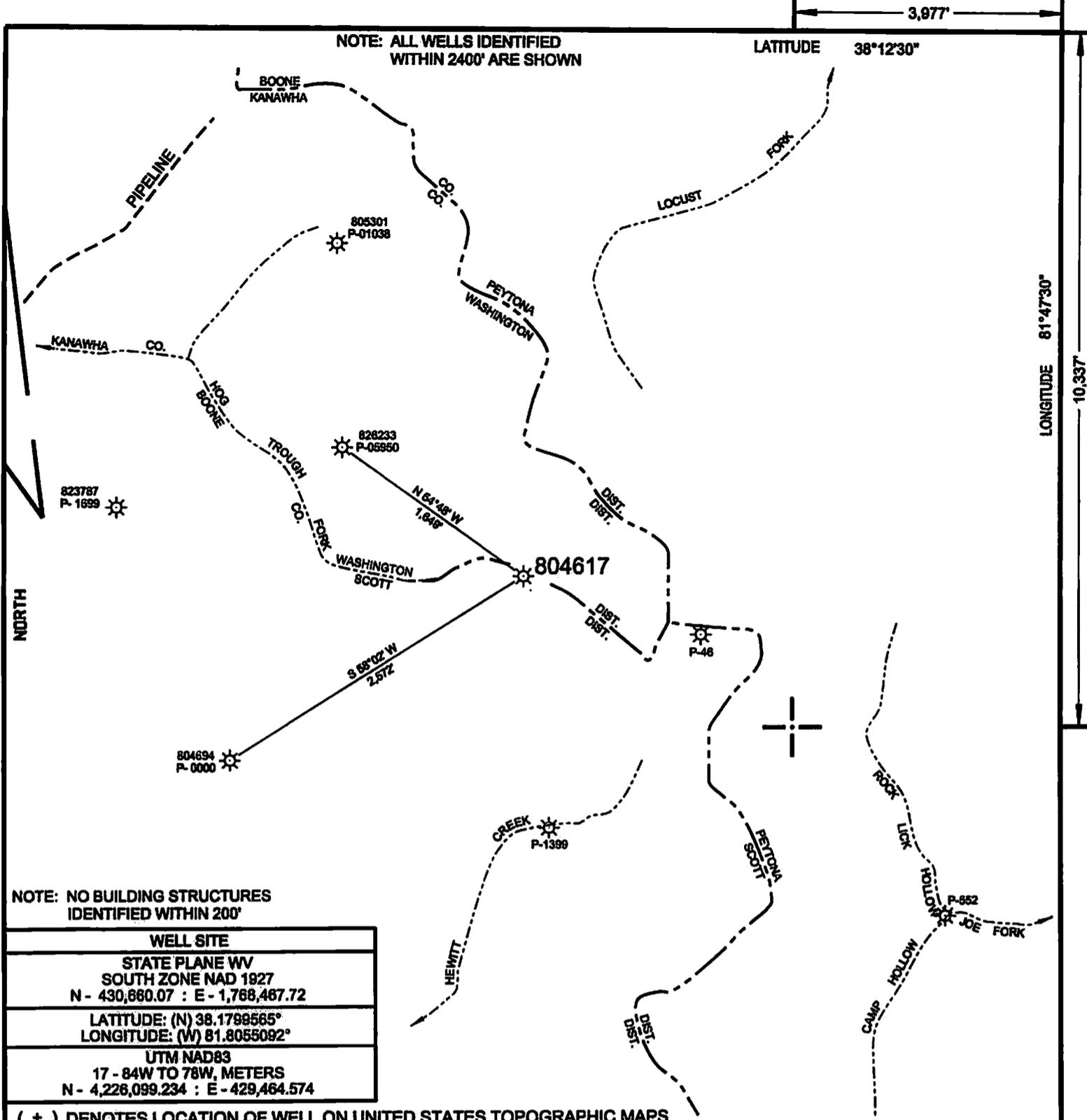
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West Virginia Department of Environmental Protection



NOTE: NO BUILDING STRUCTURES IDENTIFIED WITHIN 200'

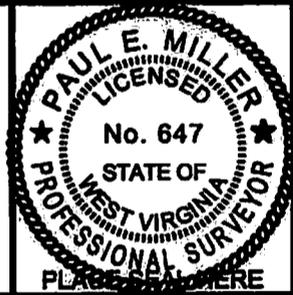
WELL SITE	
STATE PLANE WV SOUTH ZONE NAD 1927 N - 430,860.07 : E - 1,768,467.72	
LATITUDE: (N) 38.1799565° LONGITUDE: (W) 81.8055092°	
UTM NAD83 17 - 84W TO 78W, METERS N - 4,226,099.234 : E - 429,464.574	

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

FILE NO.	CA804617 P&A.DGN
DRAWING NO.	CA 4817 P&A
SCALE	1" = 1000'
MINIMUM DEGREE OF ACCURACY	1:200
PROVEN SOURCE OF ELEVATION	SPOT ELEVATION

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) *Paul E. Miller*  
R.P.E. \_\_\_\_\_ L.L.S. 647



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



DATE JUNE 30, 20 14  
OPERATOR'S WELL NO. 804617  
API WELL NO. \_\_\_\_\_

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

LOCATION: ELEVATION 1,008' WATER SHED HOG TROUGH FORK OF DICKS CREEK  
DISTRICT SCOTT COUNTY BOONE  
QUADRANGLE JULIAN, WV 7.5

SURFACE OWNER MOHLER LUMBER COMPANY ACREAGE 3315  
OIL & GAS ROYALTY OWNER MOHLER LUMBER COMPANY LEASE ACREAGE 3315  
LEASE NO. 1021793-000

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 X CLEAN OUT AND REPLUG \_\_\_  
TARGET FORMATION \_\_\_\_\_ ESTIMATED DEPTH \_\_\_\_\_  
WELL OPERATOR CHESAPEAKE APPALACHIA, L.L.C. DESIGNATED AGENT ERIC B. GILLESPIE  
ADDRESS P.O. BOX 18488, OKLAHOMA CITY, OK 73154-0488 ADDRESS CHESAPEAKE APPALACHIA, L.L.C. PO BOX 6070, CHARLESTON, WV 25362

FORM WW-6

COUNTY NAME

PERMIT