



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 28, 2014

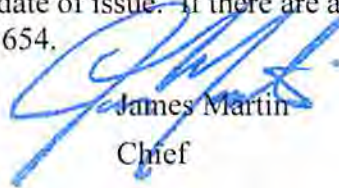
WELL WORK PLUGGING PERMIT

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.

08/01/2014

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

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

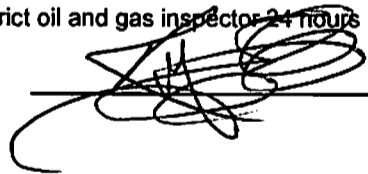
- 4) Well Type: Oil _____ Gas X Liquid injection _____ Waste disposal _____
 (Is Gas, Production X or Underground storage _____) Deep _____ Shallow X
- 5) Location: Elevation 1,009' Watershed Hog Trough Fork of Dicks Creek
 District Scott County Boone Quadrangle Julian, WV 7.5'
- 6) Well Operator Chesapeake 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 9) Plugging Contractor
 Name Ross Eller Name Chesapeake Appalachia, L.L.C.
 Address 121 Brierhill Drive Address P.O. Box 18496
Beckley, WV 25801 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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Environmental Protection

08/01/2014

804617 P&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

08/01/2014

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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

Permit No. Boo-309

Oil or Gas Well... GAS
(Kind)

Company	United Fuel Gas Company	Casing and Tubing	Used in Drilling	Left in Well	Packers
Address	Box 1256, Charleston, West Virginia	Size			
Farm	Mohler Lumber Company Acres 3.000	16			Kind of Packer
Location (waters)	Dick's Creek	13			Hook Wall
Well No.	4617 Elev. 1005	10	60'-9"	60'-9"	Size of 3"x6-5/8"
District	Scott County Boone	8 1/4	582'-4"	582'-4"	Depth set 2243
The surface of tract is owned in fee by	Mohler Lumber Company Address Charleston, W. Va.	6 5/8	1588'-10"	1588'-10"	
Mineral rights are owned by	Same Address	5 3/16			Perf. top. None
Drilling commenced	August 20, 1936	3		2260'-10"	Perf. bottom
Drilling completed	November 12, 1936	2			Perf. top
Date shot	11-13-36 Depth of shot	Liners Used			Perf. bottom
Open Flow	/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				
Salt water	feet				

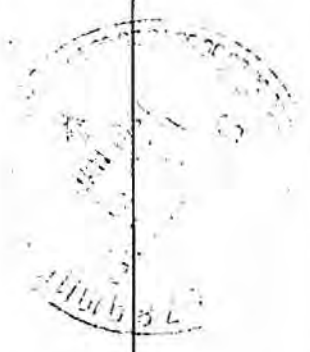
CASING CEMENTED..... SIZE..... No. FT..... Date

COAL WAS ENCOUNTERED AT 54 FEET 36 INCHES

82 FEET 36 INCHES 300 FEET 48 INCHES

392 FEET 36 INCHES 533 FEET 60 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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Environmental Protection

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 19.36

APPROVED..... UNITED FUEL GAS COMPANY..... Owner
By..... *[Signature]*.....
(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.

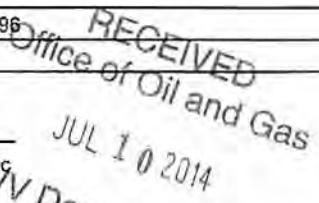


Well Operator: Chesapeake Appalachia, L.L.C.
By: [Signature]
Its: Manager - Operations, Appalachia South
Address: P.O. Box 18496
Oklahoma City, OK 73154-0496
Telephone: 405-935-4073

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

My Commission Expires September 16, 2018

Notary Public



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. H. K.

Its: Environmental Affairs

Received

JUL 21 2014

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

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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**

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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

08/01/2014

500309P

7012 3460 0000 4499 3071

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For delivery information visit our website at www.usps.com

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	
Total Postage & Fees	\$ 17.40	07/09/2014

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

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COLUMBUS, OH 43215

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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	
Total Postage & Fees	\$ 17.40	07/09/2014

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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CHARLESTON, WV 25301

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	
Total Postage & Fees	\$ 17.40	07/09/2014

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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 WV Department of
 Environmental Protection

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500309P

Well 804617 P&A
API 47-005-00309

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CHARLESTON, WV 25326

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Return Receipt Fee (Endorsement Required)	\$ 2.70	Postmark Here
Restricted Delivery Fee (Endorsement Required)	\$ 0.00	
Total Postage & Fees	\$ 17.40	07/10/2014

Sent 1 **804617 P&A**
 Street or PO Mohler Lumber Company
 City, S C/O William E. Mohler
 P.O. Box 1669
 Charleston, WV 25326

PS Form Instructions

7012 3460 0000 4499 3057

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ALUM CREEK, WV 25003

OFFICIAL USE

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	
Total Postage & Fees	\$ 17.40	07/10/2014

Sent 1 **804617 P&A**
 Street or PO Coal River Energy
 City, S P.O. Box 79
 Alum Creek, WV 25003

PS Form Instructions

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 WV Department of
 Environmental Protection 08/01/2014

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 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

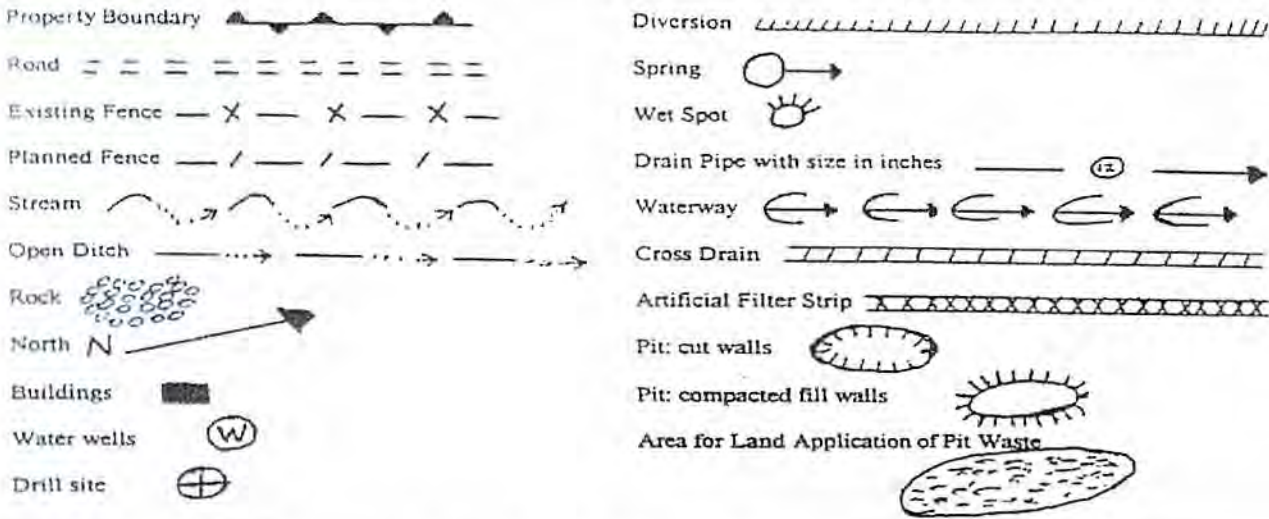


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WV Dept. of Environmental Protection

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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Office of Oil and Gas
 WV Dept. of Environmental Protection

08/01/2014

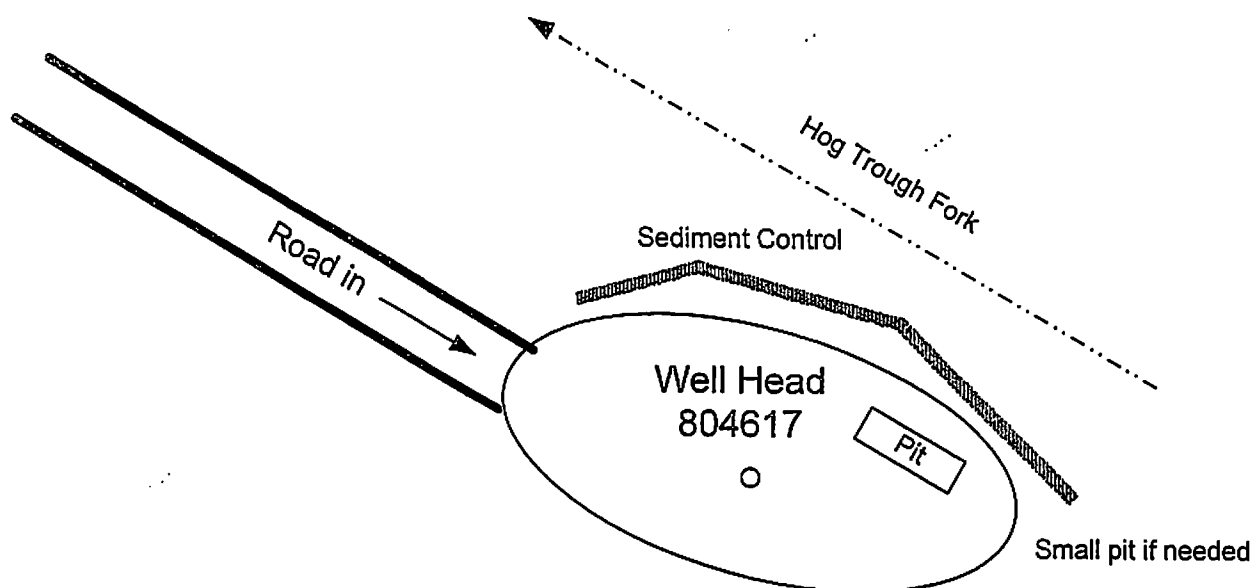
Diagram of Well Location 804617

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

Received

JUL 11 2014

Site Plan

Office of Oil and Gas
WV Dept. of Environmental Protection

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

No Scale 08/01/2014

Topographical Map of Access and

Well Location 804617

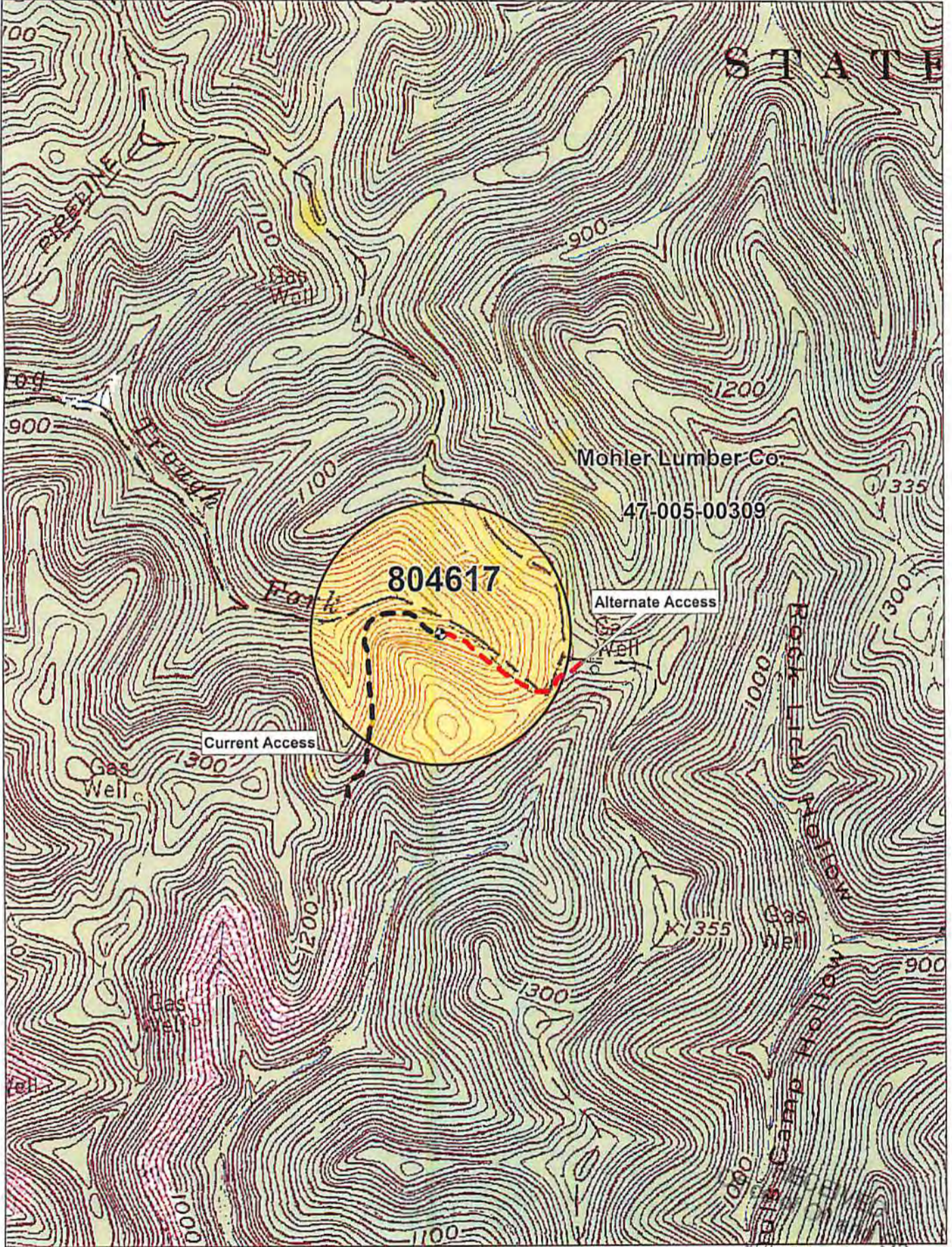
API 47-005-00309

Field Office - Hamlin

County - Boone



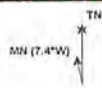
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Scale 1:1000
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 0 200 400 600 800 1000
 Data Zoom 14-1
 WV Department of Environmental Protection
 08/01/2014

