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

October 22, 2015

WELL WORK PERMIT

Re-Work

This permit, API Well Number: 47-4300705, 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.

Please be advised that form WR-35, Well Operators Report of Well Work is to be submitted to this office within 90 days completion of permitted well work, as should form WR-34 Discharge Monitoring Report within 30 days of discharge of pits, if applicable. Failure to abide by all statutory and regulatory provisions governing all duties and operations hereunder may result in suspension or revocation of this permit and, in addition, may result in civil and/or criminal penalties being imposed upon the operators.

In addition to the applicable requirements of this permit, and the statutes and rules governing oil and gas activity in WV, this permit may contain specific conditions which must be followed. Permit conditions are attached to this cover letter.

Per 35CSR-4-5.2.g this permit will expire in two (2) years from the issue date unless permitted well work is commenced. If there are any questions, please feel free to contact me at (304) 926-0499 ext. 1654.

James Martin
Chief

Operator's Well No: 805808
Farm Name: CANTLEY, PHIL & REGINA
API Well Number: 47-4300705
Permit Type: Re-Work
Date Issued: 10/22/2015

Promoting a healthy environment.

4300705W

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. If the operator encounters an unanticipated void, or an anticipated void at an unanticipated depth, the operator shall notify the inspector within 24 hours. Modifications to the casing program may be necessary to comply with W. Va. Code §22-6-20, which requires drilling to a minimum depth of thirty feet below the bottom of the void, and installing a minimum of twenty (20) feet of casing. Under no circumstance should the operator drill more than fifty (50) feet below the bottom of the void or install less than twenty (20) feet of casing below the bottom of the void.

2. Pursuant to 35 CSR 4-19.1.a, at the request of the surface owner all water wells or springs within 1000 feet of the proposed well that are actually utilized for human consumption, domestic animals or other general use shall be sampled and analyzed.

3. Pursuant to 35 CSR 4-19.1.c, if the operator is unable to sample and analyze any water well or spring with one thousand (1,000) feet of the permitted well location, the Office of Oil and Gas requires the operator to sample, at a minimum, one water well or spring located between one thousand (1,000) feet and two thousand (2,000) feet of the permitted well location.

4. All pits must be lined with a minimum of 20 mil thickness synthetic liner.

5. 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.

6. During the surface casing and cementing process, in the event cement does not return to the surface, or any other casing string that is permitted to circulate cement to the surface and does not return to the surface, the oil and gas inspector shall be notified within twenty-four (24) hours

7. Well work activities shall not constitute a hazard to the safety of persons.

8. Operator shall provide the Office of Oil & Gas notification of the date that drilling commenced, drilling ceased, completion of any other permitted well work and completion of the well. Such notice shall be provided by sending an email to DEPOOGNotify@wv.gov within 30 days of commencement of drilling.

WW-2B
(Rev. 8/10)

API Well Number: 047 - 043 - 00705 W

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION, DIVISION OF OIL AND GAS
WELL WORK PERMIT APPLICATION

1) Well Operator CHESAPEAKE APPALACHIA, L.L.C. 494477557 Lincoln Jefferson Griffithsville, WV
Operator ID County District Quadrangle

2) Operators Well Number: **805808 WO** 3) Elevation: 1118'

4) Well type: (a) Oil ___ or Gas X
(b) If Gas: Production X Underground Storage ___
Deep___ Shallow X

Ck# 5276050
$650.00

5) Proposed Target Formation(s): Big Lime / Injun Proposed Target Depth: 2050'

6) Proposed Total Depth: PBTD 2195' Formation at proposed Total Depth: Pocono

7) Approximate fresh water strata depths: 260' (behind existing casing)

8) Approximate salt water depths: 1058' (behind existing casing)

9) Approximate coal seam depths: 79', 568' (behind existing casing)

10) Approximate void depths, (coal, Karst, other): N/A

11) Does land contain coal seams tributary to active mine? No

12) Proposed Well Work: Run and cement 4 ½" casing, stimulate Big Lime/Injun

13) CASING AND TUBING PROGRAM

TYPE	SPECIFICATIONS			FOOTAGE INTERVALS		CEMENT
	SIZE	GRADE	WEIGHT PER FT.	FOR DRILLING	LEFT IN WELL	FILL-UP (CU.FT.)
Conductor						
Fresh Water						
Coal	8 5/8"		24#	653	653	Existing casing
Intermediate	6 5/8"		20#	1856	1856	Existing Casing
Production	4 ½"	M	9.5#		2100	55
Tubing	2 3/8"	J	4.6#	AS	NEEDED	
Lining						

RDT 07/23/15

PACKERS: Kind _____
Sizes_____
Depths set _____

ORM U 97-P C 9 D

4300705W

United Fuel Gas
COMPANY

SERIAL WELL NO. 5808 LEASE NO. 4976 MAP SQUARE 42-43

RECORD OF WELL NO. 5808 on the	CASING AND TUBING				TEST BEFORE SHOT
Horse Ck. L. & M. Co farm of 11324 Acres	SIZE	WEIGHT	USED IN DRILLING	LEFT IN WELL	2 /10 of Water in 2 inch
in Jefferson District	8 5/8"	24#		653'5"	/10 of Merc. in inch
Lincoln County	6 5/8"	20#		1855'9"	Volume 60 M Cu. ft.
State of: West Virginia					TEST AFTER SHOT
Field: Kanawha					32 /10 of Water in 2 inch
Rig Commenced Contractor 194					/10 of Merc. in inch
Rig Completed Contractor 194					Volume 239 M Cu. ft.
Drilling Commenced August 13 1946					20 Hours After Shot
Drilling Completed November 4 1946					Rock Pressure 178# 48 Hr.
Drilling to cost 2.25 per foot					Date Shot 11-6-46
Contractor is Ohio Drilling Co.					Size of Torpedo 15,000# Det.
Address: Hamlin, W.Va.		SHUT IN			Oil Flowed bbls. 1st 24 hrs.
		Date 11-7-46			Oil Pumped bbls. 1st 24 hrs.
Driller's Name Ashly Stowers		6 5/8		Tubing or Casing	
Walter Barrett		Size of Packer 6 5/8"x8¼"x10"			Well abandoned and
		Kind of Packer Parmaco			Plugged 194
		1st. Perf. Set from			
Elevation: 1149.59 Gr.		2nd Perf. Set from			

DRILLER'S RECORD

FORMATION	TOP	BOTTOM	THICKNESS	REMARKS
Soil	0	20		
Blue Slate	20	79		
Coal	79	82		
Slate	82	173		
Sand	173	220		
Slate	220	397		Fresh Water at 260'.
Sand	397	457		
Slate	457	495		
Broken Sand	495	525		
Sand	525	555		
Slate	555	568		
Coal	568	573		
Slate	573	595		
Sand	595	623		
Slate	623	765		
Sand	765	785		
Slate	785	860		Showing of gas at 810'.

FORM U 97-1-P C S D

4300705W

SERIAL WELL NO. 5808 LEASE NO. 4976 MAP SQUARE 42-43

DRILLER'S RECORD

FORMATION	TOP	BOTTOM	THICKNESS	REMARKS
Sand	860	915		
Slate	915	968		
Lime Shell	968	987		
Salt Sand	987	1355		Water hole full at 1058'.
Slate	1355	1400		
Break in Salt Sand	1400	1430		
Salt Sand	1430	1672		
Red Rock	1672	1676		
Slate	1676	1687		
Red Rock	1687	1697		
Slate	1697	1748		
Little Lime	1748	1788		
Pencil	1788	1791		
Big Lime	1791	1997		Gas at 1855. 8/10 W in 1".
Injun Sand	1997	2040		
Slate Shells	2040	2462		
Brown Shale	2462	2481		Gas at 2483 - 2486 - Increase from
Berea Sand	2481	2510		8/10 W in 1" to 2/10 W in 2".
Slate Shell	2510	3625		
Shale	3625	3775		
Slate and S hells	3775	3800		
Shale	3800	4001		
White Slate	4001	4013		Gas testing 2/10 " in 2" at 4013'
Total Depth	4013	S.L.M.		when drilling was completed.
				No showing of gas below berea Grit.

4300705W

WW2-A
(Rev. 6-07)

1) Date: July 23, 2015
2) Operators Well Number 805808 WO
State County Permit
3) API Well Number 47 - 043 - 00705

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS
NOTICE AND APPLICATION FOR A WELL WORK PERMIT

4) Surface owner(s) to be served:
(a) Name: Billy Goldsy Adkins
Address: 50 Walnut Lane
Alkol, WV 25501

(b) Name: See Attached List
Address for Access Surface Owners

(c) Name:
Address:

6) Inspector:
Name: Ralph Triplett
Address: 3359 McClellan Highway
Branchland, WV 25506
Telephone: 304-389-0350

5) (a) Coal Operator:
Name: Allegheny Land Company ✓
Address: C/O Arch Coal, Inc.
P.O. Box 502681
St. Louis, MO 63150

b) Coal Owner(s) with Declaration:
Name: Horse Creek Land and Mining Co. ✓
Address: 300 Capital Street, Suite 1503
Charleston, WV 25301

Name:
Address:

(c) Coal Lessee with Declaration:
Name: Allegheny Land Company ✓
Address: C/O Arch Coal, Inc.
P.O. Box 502681
St. Louis, MO 63150

TO THE PERSON(S) NAMED ABOVE TAKE NOTICE THAT:

___ Included is the lease or leases or other continuing contract or contracts by which I hold the right to extract oil and gas

OR

___ Included is the information required by Chapter 22, Article 6, Section 8(d) of the Code of West Virginia (see page 2).

I certify that as required under Chapter 22 of the West Virginia Code I have served copies of this notice and application a location plat, and accompanying documents pages 1 though ____ on the above named parties, by:

___ Personal Service (Affidavit attached)
X Certified Mail (Postmarked postal receipt attached)
___ Publication (Notice of Publication attached)

I have read and understand Chapter 22-6 and 38 CSR 11-18, and I agree to the terms and conditions of any permit issued under this application.

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.

Official Seal Notary Public
State of West Virginia
Phyllis A. Copley
144 Willard Circle Hurricane, WV 25526
My Commission Expires
September 16, 2018

Well Operator: CHESAPEAKE APPALACHIA, L.L.C.
By: [signature]
It's Manager – Operations, Appalachia South
Address: P.O. Box 18496
Oklahoma City, OK 73154-0496
Telephone: 405-935-4073

Subscribed and sworn before me this 23rd day of July 2015

Phyllis A. Copley Notary Public,

My Commission expires September 16, 2018

Oil and Gas Privacy Notice

The office of Oil and Gas processes your personal information, such as name, address and phone number, as 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 Free of Information Act requests. Our office will appropriately secure your personal information. If you have questions about our use of your personal information, please contact DEP's Chief Privacy Officer at depprivacyofficer@wv.gov.

WW-2A Attachment

API: 047 – 043- 00705 W

Well 805805 WO
ACCESS SURFACE OWNERS

Blanche Mace
Wanda Roush
35550 Freed Drive
Eastlake, OH 44095

Roger Lovejoy
430 Flat Creek Road
Alkol, WV 25501

James Smith
Doris Pauley
Edgar Smith
50 Walnut Lane
Alkol, WV 25501

CK 5276050
65000

API: 47-043-00705 W

7015 0640 0005 7839 0155

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SAINT LOUIS, MO 63150

OFFICIAL USE

Certified Mail Fee $3.45
$ $2.80
Extra Services & Fees (check box, add fee as appropriate)
☐ Return Receipt (hardcopy) $ $0.00
☐ Return Receipt (electronic) $ $0.00
☐ Certified Mail Restricted Delivery $ $0.00
☐ Adult Signature Required $ $0.00
☐ Adult Signature Restricted Delivery $
Postage $1.64
Total $7.89

0523
05
Postmark Here
07/23/2015

805808 WO
Allegheny Land Company
C/O Arch Coal, Inc.
P.O. Box 502681
St. Louis, MO 63150

✓

7015 0640 0005 7840 3312

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CHARLESTON, WV 25301

OFFICIAL USE

Certified Mail Fee $3.45
$ $2.80
Extra Services & Fees (check box, add fee as appropriate)
☐ Return Receipt (hardcopy) $ $0.00
☐ Return Receipt (electronic) $ $0.00
☐ Certified Mail Restricted Delivery $ $0.00
☐ Adult Signature Required $ $0.00
☐ Adult Signature Restricted Delivery $ $0.00
Postage $1.64
Total $7.89

0523
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Postmark Here
07/23/2015

805808 WO
Horse Creek Land & Mining Co.
300 Capital Street, Suite 300
Charleston, WV 25301

✓

7015 0640 0005 7840 3190

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ALKOL, WV 25501

OFFICIAL USE

Certified Mail Fee $3.45
$ $2.80
Extra Services & Fees (check box, add fee as appropriate)
☐ Return Receipt (hardcopy) $ $0.00
☐ Return Receipt (electronic) $ $0.00
☐ Certified Mail Restricted Delivery $ $0.00
☐ Adult Signature Required $ $0.00
☐ Adult Signature Restricted Delivery $ $0.00
Postage $1.64
Total $7.89

0523
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Postmark Here
07/23/2015

805808 WO
Roger Lovejoy
430 Flat Creek Road
Alkol, WV 25501

✓

7015 0640 0005 7840 3206

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ALKOL, WV 25501

OFFICIAL USE

Certified Mail Fee $3.45
$ $2.80
Extra Services & Fees (check box, add fee as appropriate)
☐ Return Receipt (hardcopy) $ $0.00
☐ Return Receipt (electronic) $ $0.00
☐ Certified Mail Restricted Delivery $ $0.00
☐ Adult Signature Required $ $0.00
☐ Adult Signature Restricted Delivery $ $0.00
Postage $1.64
Total $7.89

0523
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Postmark Here
07/23/2015

805808 WO
James Smith, Doris Pauley, Edgar Smith
50 Walnut Lane
Alkol, WV 25501

7015 0640 0005 7840 3176

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ALKOL, WV 25501

OFFICIAL USE

Certified Mail Fee $3.45
$ $2.80
Extra Services & Fees (check box, add fee as appropriate)
☐ Return Receipt (hardcopy) $ $0.00
☐ Return Receipt (electronic) $ $0.00
☐ Certified Mail Restricted Delivery $ $0.00
☐ Adult Signature Required $ $0.00
☐ Adult Signature Restricted Delivery $ $0.00
Postage $1.64
Total $7.89

0523
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Postmark Here
07/23/2015

805808 WO
Billy Goldsy Adkins
50 Walnut Lane
Alkol, WV 25501

✓

7015 0640 0005 7840 3183

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EASTLAKE, OH 44095

OFFICIAL USE

Certified Mail Fee $3.45
$ $2.80
Extra Services & Fees (check box, add fee as appropriate)
☐ Return Receipt (hardcopy) $ $0.00
☐ Return Receipt (electronic) $ $0.00
☐ Certified Mail Restricted Delivery $ $0.00
☐ Adult Signature Required $ $0.00
☐ Adult Signature Restricted Delivery $ $0.00
Postage $1.64
Total Postage and Fees $7.89

0523
05
Postmark Here
07/23/2015

805808 WO
Blanche Mace, Wanda Roush
35550 Freed Drive
Eastlake, OH 44095

Received
Office of Oil & Gas
JUL 24 2015

✓

4300705 W

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OCT 2 2 2015

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Environmental Protection

WW-2A1
(Rev 1/11)

Operators Well Number: 805808 WO
API Well Number: 47- 043-00705

INFORMATION SUPPLIED UNDER WEST VIRGINIA CODE

Chapter 22, Article 6, Section 8 (d)
IN LIEU OF FILING LEASE(S) AND OTHER CONTINUING CONTRACT(S)

Under the oath required to make the verification on page 1 of this Notice and Application, I depose and say that I am the person who signed the Notice and Application for the Applicant, and that--

(1) the tract of land is the same tract described in this Application, partly or wholly depicted in the accompanying plat, and described in the Construction and Reclamation Plan;

(2) the parties and recordation data (if recorded) for leases(s) or other continuing contract(s) by which the Applicant claims the right to extract, produce or market the oil or gas are as follows:

Grantor, lessor, etc.	Grantee, lessee, etc.	Royalty	Book/Page
Horse Creek Land and Mining Co.	Columbia Gas Transmission (Gas Rights only) and Pennzoil Company (Oil Rights only)	1/8	178/472

Acknowledge of Possible Permitting/Approval
In addition to the Office of Oil and Gas

The permit applicant for the proposed well work addressed in this application hereby acknowledges the possibility of the need for permits and/or approvals from local, state, or federal entities in addition to the DEP, Office of Oil and Gas, including but not limited to the following:

*WV Division of Water and Waste Management
*WV Division of Natural Resources
*WV Division of Highways
*U.S. Army Corps of Engineers
*U.S. Fish and Wildlife Services
*County Floodplain coordinator

The applicant further acknowledges that any Office of Oil and gas permit in no way overrides, replaces, or nullifies the need for other permits/approvals that may be necessary and further affirms that all needed permits/approvals should be acquired from the appropriate authority before the affected activity is initiated.

David Gocke (pac)

Well Operator: Chesapeake Appalachia, L.L.C.

By: David Gocke

Its: Manager – Operations, Appalachia South

4300705W

R. Ray Lovejoy, II, Esq.
P.O. Box 645
100 Capitol Street, Suite 301
Charleston, WV 25323

LOVEJOY
LAW OFFICE, PLLC

phone: 304.720.7722
fax: 304.720.7721
email: lovejoylaw@wvdsl.net

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OCT 21 2008
LAND DEPT

October 15, 2008

TITLE OPINION

AB10571

Mr. Matthew Troup
Chesapeake Energy Corporation
Chesapeake Appalachian, LLC
900 Pennsylvania Avenue
Charleston, WV 25302

Re: Workover Well 805808 (WO)
Jefferson District, Lincoln County, West Virginia
Horse Creek Land and Mining Company, 42 acres
Chesapeake Lease 1004976

Dear Mr. Troup:

At your request, we have examined the properly indexed public records in the Office of the Clerk of the County Commission for Lincoln County, West Virginia (the Clerk's Office), for the period of time from February 14, 1898, to October 1, 2008 at 11:00 a.m. (the Effective Date). The purpose was to examine title as to the oil, gas, coal, and surface estates affecting that particular surface and mineral parcel of land identified hereinabove situate on the waters of Left Hand Fork of Mud River Fork in Jefferson District of Lincoln County, West Virginia.

The chain of title for the mineral estate is attached as Exhibit "A". The chain of title for the surface estate is attached as Exhibit "B" Any maps or plats attached to this opinion are provided as a convenience only, and no presumption of accuracy should be made or relied thereupon.

Subject to the notes, requirements, comments, and exceptions hereinafter set forth, it is our opinion that as of the Effective Date, record title to the Subject Tract was vested as follows:

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SCHEDULE OF OWNERSHIP

SURFACE ESTATE:

Phil and Regina Cantley 2101 Bulger Road Alkol WV 25501	100%

OIL AND GAS ESTATE:

Owner:	Interest
Horse Creek Land and Mining Company 300 Capitol Street, Suite 1540 Charleston, WV 25301*	100%
WORKING INTEREST: Chesapeake Appalachian, LLC	0.87500%
ROYALTY INTEREST[1]: Horse Creek Land and Mining Company	0.12500%
TOTAL WORKING AND ROYALTY INTEREST:	1.000000

COAL ESTATE:

Horse Creek Land and Mining Company	100%

COAL LEASE:

Allegheny Land Company
11,500 acres

LEASE AND ASSIGNMENT SUMMARY

1) **Deed of Merger:**

Dated:	June 30, 1971
Admitted to Recorded:	July 7, 1971
Recorded:	Deed Book 182, Page 73
Grantor:	United Fuel Gas Co.

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Grantee:	Columbia Gas Transmission Co.
Conveyed:	All right, title and interest.

2) **Assignment:**

Dated:	July 31, 1990
Admitted to Record:	August 18, 1990
Recorded:	Assignment Book 12, Page 447
Assignor:	Columbia Gas Transmission Co.
Assignee:	Columbia Natural Resources, Inc.
Assigned:	All right, title & interest in and to certain, properties situate in Lincoln County.

3) **Certificate of Conversion:**

Dated:	August 27, 2003
Admitted to Record:	September 3, 2003
Recorded:	Instruments Recorded Book 4, Page 579
Grantor:	Columbia Natural Resources, Inc.
Grantee:	Columbia Natural Resources, LLC.
Conveyed:	All right, title & interest....

4) **Merger-Confirmatory Deed:**

Dated:	February 1, 2006
Admitted to Record:	February 8, 2006
Recorded:	Deed Book 313, Page 612
Grantor:	Columbia Natural Resource, LLC.
Grantee:	Chesapeake Appalachian, LLC.
Conveyed:	All right, title & interest...situate in West Virginia.

COAL LEASE

1. **COAL LEASE:**

Dated:	June 14, 1978
Admitted to Record:	August 21, 1978
Recorded:	Lease Book 38, Page 671

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4300705 W

Lessors:	Horse Creek Land and Mining Company
Lessee:	Allegheny Land Company
Term:	5 years minimum, with option of successive 5 year terms
Land Covered:	11,500 acres (+/-) being all the coal owned by Lessor

2. **AMENDED & RESTATED LEASE:**

Dated:	June 1, 2005
Admitted to Record:	August 16, 2005
Recorded:	Lease Book 51, Page 310
Lessor:	Horse Creek Land and Mining Company
Lessee:	Allegheny Land Company
Amend:	Amend and Restate expired June 14, 1978 Lease.

EXAMINER'S NOTES AND REQUIREMENTS

Examiner's Note 1: This opinion is rendered subject to the facts, which will be shown by an accurate survey of the Subject Tract to establish the lines of occupation, use, and possession and the acreage contained therein. Some of the metes and bounds descriptions contained in deeds in the chains of title are inconsistent and deficient insofar as points of beginning and references to monuments. Directions as to boundaries are ancient and vague as to preclude us from specifically locating the property.

Requirement A: Prior to the commencement of operations on the Subject Tract, an accurate survey and plat of the Subject Tract that shows all buildings, fences, encroachments, easements, rights of way, cemeteries, and natural landmarks, including any and all roadways or waterlines, should be made. A metes and bounds description and plat should be prepared based upon the survey. The survey should be reviewed to assure that the boundaries of the Subject Tract do not overlap with adjacent tracts and to ensure future compliance with applicable state spacing and pooling regulations. You should also conduct an on-site investigation of the property to confirm that no oil and gas development has taken place, which would be adverse to the interests of those parties under whom you claim.

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Examiner's Note 2: The materials examined do not reflect whether the lease covering the Subject Tract has been maintained in effect by proper and timely payments of delay rentals, shut-in royalties, minimum royalty provisions, or by drilling operations and/or continuous production established during the primary term of the lease or any extensions thereof.

> Requirement B: Prior to the commencement of operations on the Subject Tract, you should satisfy yourselves that all terms and provisions of the leases have been complied with so as to maintain the leases in full force and effect.

Examiner's Note 3: Some easements and rights of way cannot be identified by a review of the records in the Clerk's Office as a result of the manner in which such easements and rights of way are described and due to the fact that not all easements and rights of way are recorded, either because they are implied or prescriptive easements (for which no documentary evidence exists) or because of the tendency of some easement holders to not record their easements.

> Requirement C: Prior to the commencement of operations on the drill site tract, you should conduct a physical inspection of the area surrounding the proposed well site to ensure, to the extent possible, that operations for oil and gas are conducted so as not to interfere with any easements noted herein or any other prior easements which were not revealed by our review of the records in the Clerk's Office but which may be discovered by a visual inspection of the property. You should locate and avoid interfering with existing pipelines, power lines, roads and other types of easements, graves or cemeteries, water wells, buildings and other improvements.

Examiner's Note 4: Because of the numerous conveyances among the coal owner(s), and predecessors in title, along with the customary practice of many operators to not record operating leases, or assignment thereof, it is possible that a coal lease, sub-lease, mortgage or outsell could adversely affect the Subject Tract

> Requirement D: We recommend that you verify all coal leases affecting the Subject Tract by making inquiries with the coal owner as set out in the ownership portion of this opinion. If you determine that a coal lease does currently cover the Subject Tract, you should review the same in order to insure that said lease does not effect or limit your operations on the merged unit acreage.

Examiner's Note 5: Chesapeake should confirm that the well lies upon the 157 acre mineral tract described herein.

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COMMENTS

This opinion regarding present ownership thereof is limited to matters of record as indicated by the public indices. For indices containing both direct and indirect listings, we have only reviewed the direct entries in the indices. The Opinion as set forth above is subject to indexing errors, discrepancies and inaccuracies of the public records in the Clerk's Office. This Opinion specifically does not take into account matters, which are not of public record such as unrecorded leases, subleases, assignments, farmouts, joint operating agreements, or other such records and documents

TAXES, LIENS AND ENCUMBRANCES

TAX INFORMATION: The following properties were assessed in the Harts Creek District, Lincoln County, West Virginia for the tax year 2007 as follows:

- Tax Map 13, Parcel 43.2
  Phil and Regina Cantley.
  2101 Bulger Road
  Alkol, WV 25501

  Ticket No: 12585 (2007)
  Amount total :$ 115.33
  Delinquent
  Description: SUR 30 Acres Left Hand Frk

- Tax Map 13, Parcel 43.2
  Phil and Regina Cantley.
  2101 Bulger Road
  Alkol, WV 25501

  Ticket No: 12662 (2008)
  Amount 1st:28.99
  Due
  Description: SUR 30 Acres Left Hand Frk

- Tax Map 999, Parcel 0500 0812
  Horse Creek Land and Mining.
  300 Capitol Street Suite 1503
  Charleston, WV 25301

  Ticket No: 12846 (2008)
  Amount total :$146.42
  Due 8/28/2008
  Description: MIN 1181.54 acres left hand fork

TAX LIENS: None

JUDGMENT LIENS: None

DEEDS OF TRUST:

1. Deed of Trust, Credit Line Deed of Trust, Mortgage, Assignment, Security Agreement, Fixture filing and Financing statement dated August 29, 2003 and recorded in Trust Deed Book 162, Page 589 Columbia Natural Resources, LLC to P. Nathan Bowles, Jr. as Trustee,, and Fleet National Bank. Administrative Agent. Recorded September 3, 2003

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2. Amendment to Deed of Trust dated January 19, 2005 and recorded in Trust Deed Book 176, Page 145 Columbia Natural Resources, LLC to P. Nathan Bowles, Jr. as Trustee, and Bank of America, N.A., Administrative Agent. Recorded January 26, 2005

3. Second Amendment to Deed of Trust dated February 3, 2006 and recorded in Trust deed Book 185, Page 38 Assignment of Notes and Liens, Credit Line Deed of Trust, Mortgage, Assignment, security Agreement, Fixture Filing and Financing statement from Chesapeake Appalachia, LLC to P. Nathan Bowles, Jr., Trustee and Bank of America, N.A., Recorded February 14, 2006.

MECHANIC'S LIENS: None

FEDERAL TAX LIENS: None

STATE TAX LIENS: None

LIS PENDENS: None

EASEMENTS/RIGHTS OF WAY/AGREEMENTS:

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ADVISORY MATTERS

This opinion does not purport to cover matters not revealed by the materials examined, such as undisclosed liens, fraud, capacity of parties, genuineness of instruments and signatures thereto, adequacy or payment of consideration, actual notice of subsequent purchasers of prior unrecorded conveyances, prior dedication of gas reserves in interstate commerce, improperly or inadequately described conveyances, area, boundary lines, survey lines, conflicts of boundary lines, vacancies, excesses, rights of parties in possession, or any matters which could be determined only by an investigation upon the ground or by a survey of the land.

The opinions expressed herein are for the sole use and benefit of Chesapeake Energy Corp., and cover the periods of time as specified above. Such opinions are not to be quoted or otherwise relied upon by any other party except with our prior written consent.

Very truly yours,

R. Ray Lovejoy

Attachments:

Exhibit A - Chain of Title: Surface Estate
Exhibit B - Chain of Title: Mineral Estate

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(5/13)

API Number 47 – 043 - 00705

Operator's Well No. 805808 WO

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
OFFICE OF OIL AND GAS

Operator Name CHESAPEAKE APPALACHIA, L.L.C. OP Code 494477557

Water (HUC 10) Left Fork of Mud River Quadrangle Griffithsville, WV 7.5'

Elevation: 1,108' County Lincoln District Jefferson

Description of anticipated using more than 5,000 bbls of water to complete the proposed well work: Yes ___ No X

Will a pit be used for drill cuttings? Yes ___ No X

If so, please described anticipated pit waste: Cement and Frac Water
Will a synthetic liner be used in the pit? Yes X No ____ If so, what ml.? ~~6~~ 20 mi.
Proposed Disposal Method for treated Pit Wastes:

- ____ Land Application
- ____ Underground Injection (UIC Permit
- ____ Reuse (at API Number _____)
- X Off Site Disposal (Supply form WW-9 for disposal location)
- ____ Other (Explain

Will closed loop system be used? No (Not Drilling)

Drilling medium anticipated for this well? Air, fresh water, oil based, etc. _____

If oil based, what type? Synthetic, petroleum, etc. _____

Additives to be used in drilling medium? _____

Drilling cuttings disposal method? Leave in pit, landfill, removed offsite, etc. _____

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 Division 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 _____

Company Official (Typed Name) David Gocke
Company Official Title Manager – Operations, Appalachia South

Subscribed and sworn before me this 23rd day of July 2015

Phyllis A. Copley
Notary Public

My Commission expires September 16, 2018

Official Seal Notary Public
State of West Virginia
Phyllis A. Copley
144 Willard Circle Hurricane, WV 25526
My Commission Expires
September 16, 2018

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Office of Oil & Gas
JUL 24 2015

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Form WW-9

Operator's Well Number: 805808 WO
API Well Number: 47 – 043 - 00705

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) 500 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 : Ralph D. Triplett

Comments:

Title: District Inspector Date: July 23, 2015

Field Reviewed? (_____) Yes (✓) No

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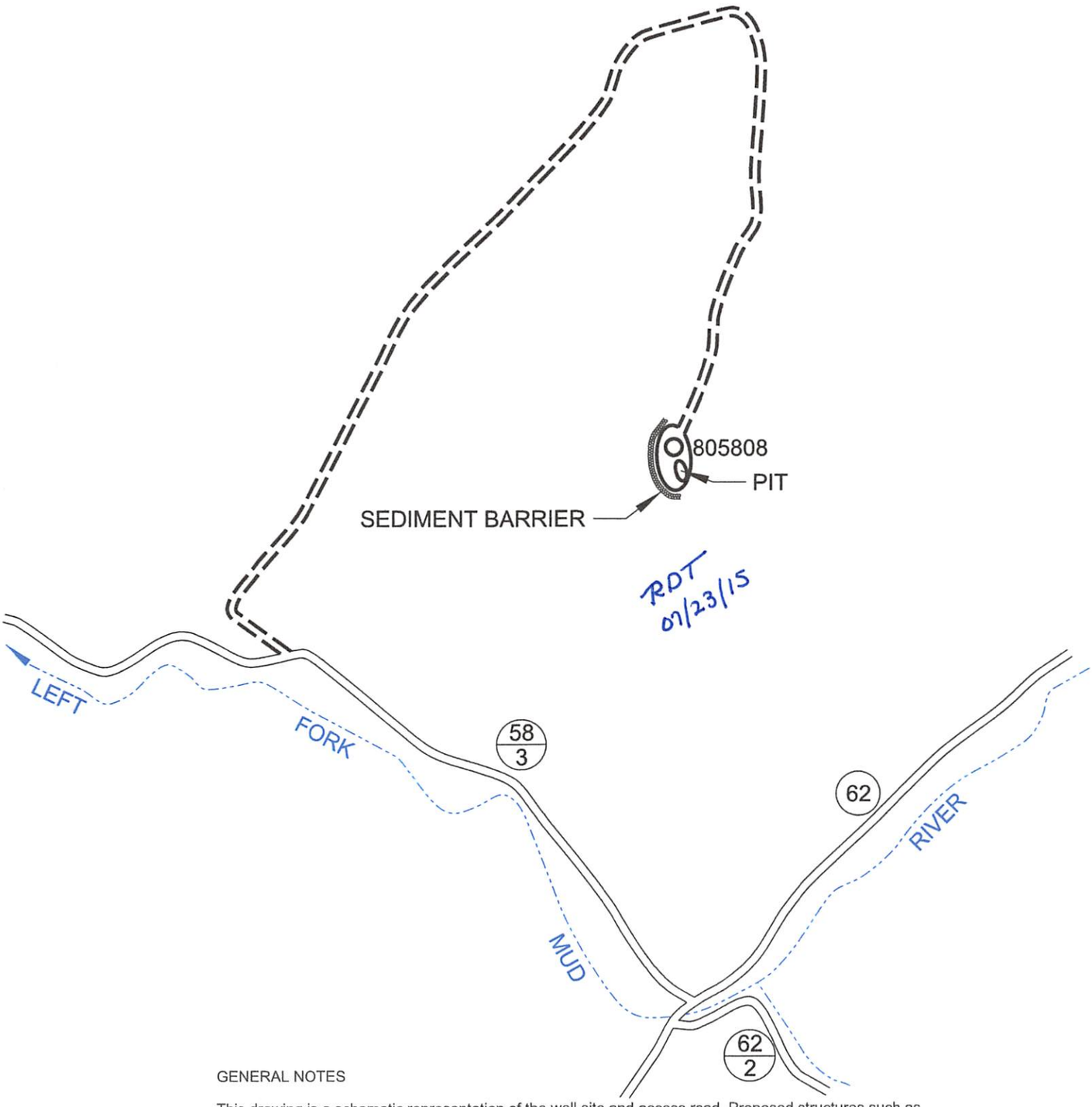
CHESAPEAKE APPALACHIA, L.L.C.

RECLAMATION DIAGRAM
WELL LOCATION 805808

API 47-043-00705



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 show in approximate pre-planning configurations.

All culvert pipes will be a minimum of 15 inches in diameter. all culvert pipes installed will be accomanied 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 roacks of 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 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 contruction phase, where applicable, and in areas that will allow. These structures will be considered permanent and used as such.

Permanent seeding: See Attachment #1.

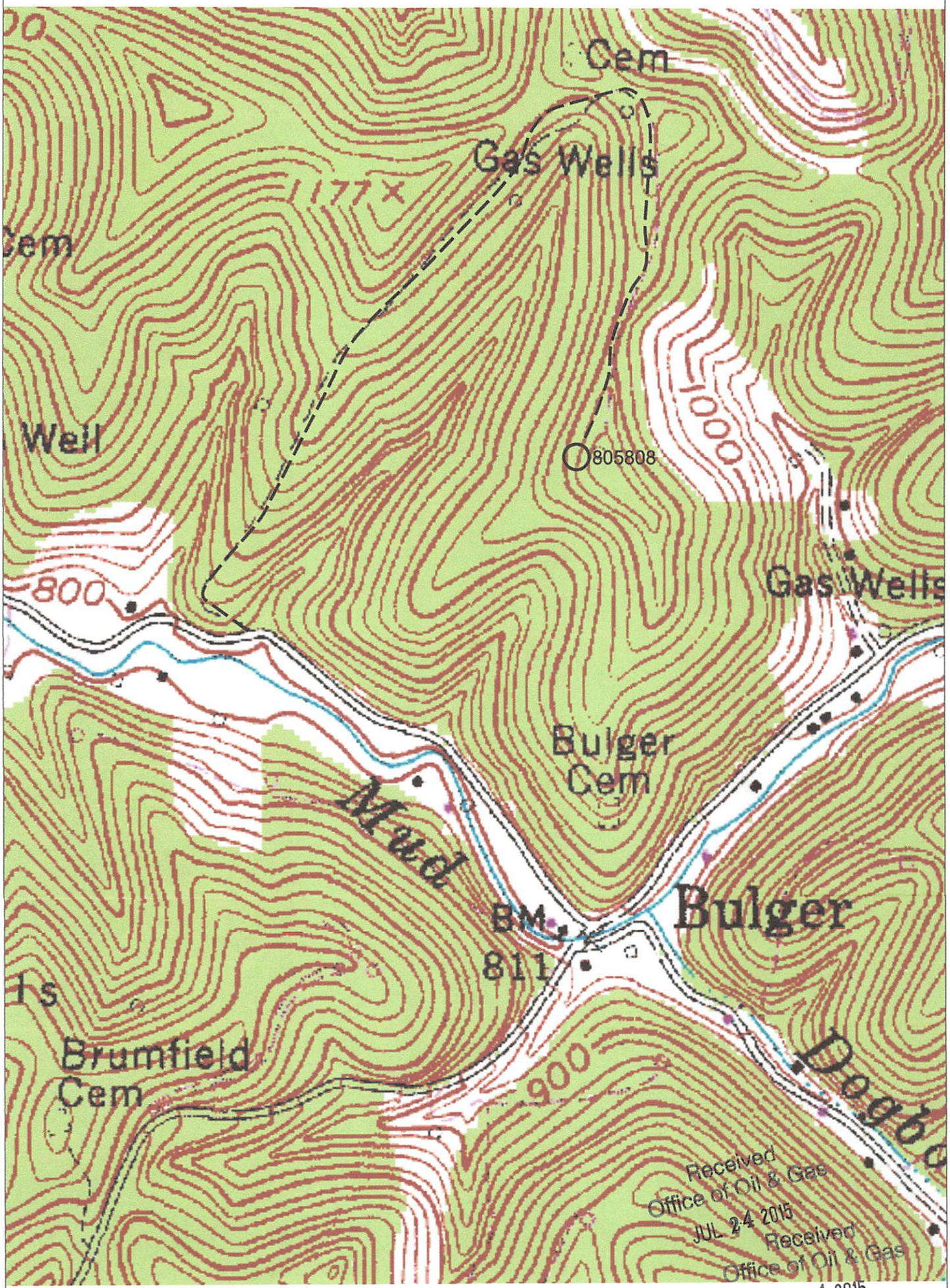
CHESAPEAKE ENERGY CORPORATION - EASTERN DIVISION
P.O. BOX 579 - 8165 COURT AVENUE - HAMLIN, WV 25523
304 824-5141 - FAX 304 824-2247

4300705W

CHESAPEAKE APPALACHIA, L.L.C.

TOPOGRAPHICAL MAP OF ACCESS AND WELL LOCATION 805808

API 47-043-00705



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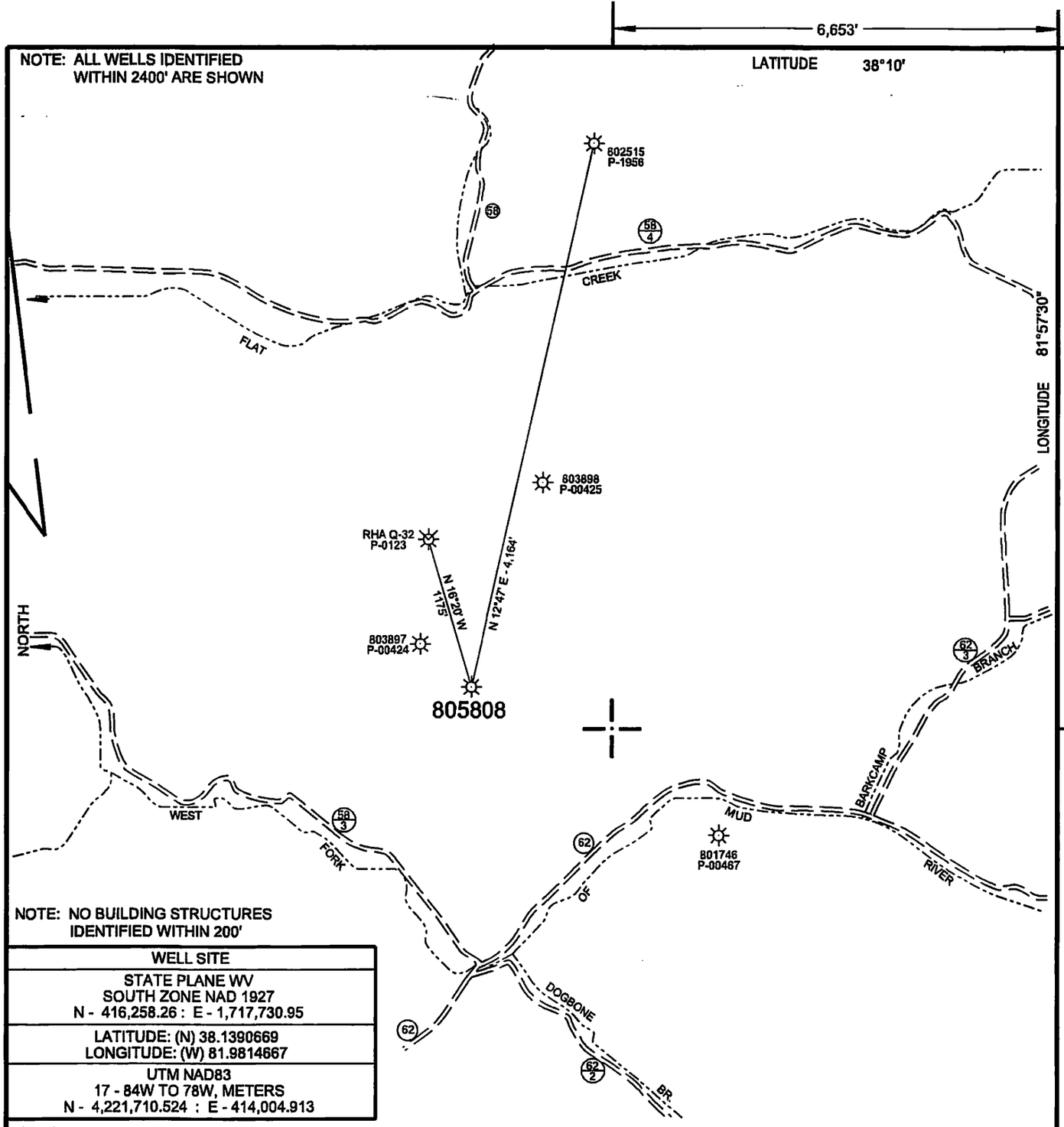
CHESAPEAKE ENERGY CORPORATION - EASTERN DIVISION
P.O. BOX 579 - 8165 COURT AVENUE - HAMLIN, WV 25523
304 824-5141 - FAX 304 824-2247



WELL SITE
STATE PLANE WV SOUTH ZONE NAD 1927 N - 416,258.26 : E - 1,717,730.95
LATITUDE: (N) 38.1390669 LONGITUDE: (W) 81.9814667
UTM NAD83 17 - 84W TO 78W, METERS N - 4,221,710.524 : E - 414,004.913

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

FILE NO. CA805808.DGN
DRAWING NO. CA 805808
SCALE 1" = 1000'
MINIMUM DEGREE OF ACCURACY 1 : 200
PROVEN SOURCE OF ELEVATION MAPPING GRADE GPS

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

PAUL E. MILLER LICENSED No. 647 STATE OF WEST VIRGINIA PROFESSIONAL SURVEYOR

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

DATE JUNE 18, 2015
OPERATOR'S WELL NO. 805808
API WELL NO.
47 (STATE) 043 (COUNTY) 00705 W (PERMIT)

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

LOCATION: ELEVATION 1,108' WATER SHED LEFT FORK OF MUD RIVER
DISTRICT JEFFERSON COUNTY LINCOLN
QUADRANGLE GRIFFTHSVILLE, WV 7.5'
SURFACE OWNER BILLY GOLDSY ADKINS ACREAGE 30
OIL & GAS ROYALTY OWNER HORSE CREEK LAND & MINING CO. LEASE ACREAGE 10.265
LEASE NO. 1004976

PROPOSED WORK: DRILL ___ CONVERT ___ DRILL DEEPER ___ REDRILL ___ FRACTURE OR STIMULATE ___ PLUG OFF OLD FORMATION ___ PERFORATE NEW FORMATION ___ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) WORKOVER

PLUG AND ABANDON ___ CLEAN OUT AND REPLUG ___
TARGET FORMATION BIG LIME, BEREA ESTIMATED DEPTH _____
WELL OPERATOR CHESAPEAKE APPALACHIA, L.L.C. DESIGNATED AGENT JESSICA GREATHOUSE
ADDRESS P.O. BOX 18496, OKLAHOMA CITY, OK 73154-0496 ADDRESS CHESAPEAKE APPLACHIA, L.L.C. PO BOX 6070, CHARLESTON, WV 25362

FORM WW-6

COUNTY NAME

PERMIT

4300705W

WW2-B1
(5-12)

Operator's Well Number: 805808 WO
API Well Number: 47 – 043 - 00705

West Virginia Department of Environmental Protection
Office of Oil and Gas

NOTICE TO SURFACE OWNERS

The well operator named below is preparing to file for a permit from the state to drill a new well. Before a well work permit can be filed with the Chief of the Office of Oil and Gas, the well operator is required to have given notice of the right to request water well or spring analytical testing. This notice shall be given to the owners or occupants of land which have a water well or spring being utilized for human consumption, domestic animals, or other general use and which is located within 1000 feet of the proposed well site.

With this form, the operator is giving you notice of your right to request analytical testing. The operator is required to sample and analyze the water wells or springs of all owners or occupants who request it. Therefore if you wish to have your water well or spring tested, contact the operator named below.

All sampling shall be completed prior to drilling. Within thirty (30) days of the receipt of such sample analyses the operator shall submit the results to the Chief of the Office of Oil and Gas and to the owners or occupants who may have requested them.

If no water well or spring is located within 1000 feet, the Chief may require the operator to sample and analyze water from a water well or spring within 2000 feet of the proposed well site.

Be advised, you have the right to sample and analyze any water supply at your own expense.

The laboratory used by the operator to analyze the samples will be approved by the Chief. The operator named below has decided to use the following laboratory to analyze the water samples:

Certified Laboratory Name No water sampling
Sampling Contractor _____

Well Operator CHESAPEAKE APPALACHIA, L.L.C.
Address P.O. Box 18496
Oklahoma City, OK 73154-0496
Telephone 405-935-4073

FOR OPERATORS USE ONLY: Below, or on an attached page, list those persons which were given this notice. Place an asterisk beside the one(s) that contacted you and requested sampling and analyses. If there were no requests made, indicate by underlining which one you have selected to sample and analyze. If there are not water wells or springs within 1000 feet of the proposed site, the Chief may require the operator to test wells up to 2000 feet from proposed site.

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AGREEMENT OF MERGER

THIS AGREEMENT is entered into effective the 26th day of January, 2006, between Columbia Energy Resources, LLC a Delaware limited liability company ("CER"), Columbia Natural Resources, LLC a Delaware limited liability company ("CNR"), and Chesapeake Appalachia, L.L.C., an Oklahoma limited liability company ("Appalachia").

WITNESSETH:

WHEREAS, Chesapeake Energy Corporation ("CEC") is the sole member of Appalachia, Appalachia is the sole member of CER and CER is the sole member of CNR;

WHEREAS, CEC, Appalachia, CER and CNR deem it desirable and in the best interests of the parties that CER and CNR be concurrently merged with and into Appalachia; and

WHEREAS, by means of this Agreement, CER, CNR and Appalachia desire to effect the concurrent merger of CER and CNR with and into Appalachia with Appalachia being the surviving entity.

NOW, THEREFORE, in consideration of the mutual agreements herein contained, the receipt and sufficiency of which are hereby acknowledged, the parties agree as follows:

1. Merger. CER and CNR will concurrently merge with and into Appalachia pursuant to Section 18-209 of the Delaware Limited Liability Company Act and Section 2054 of the Oklahoma Limited Liability Company Act (the "Merger"). Appalachia will be the surviving entity, the certificate of formation of Appalachia will be the certificate of formation of the surviving entity and there will be no amendments to the certificate of formation to be effected by the Merger. On the effective date of the Merger, all the outstanding membership interests of CER and CNR will be cancelled without any conversion and no payment or distribution will be made with respect thereto.

2. Certificate of Merger. By execution hereof, CER and CNR each hereby authorizes Appalachia to execute and cause to be filed with the Oklahoma Secretary of State and all parties agree to execute and cause to be filed with the Delaware Secretary of State the Certificate of Merger, in the form attached hereto as Schedule "A" and Schedule "B" respectively.

3. Effective Date. The effective date of the Merger will be the date of filing of the Certificate of Merger with the Oklahoma Secretary of State.

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4. Transfer. On the effective date of the Merger, the separate existence of CER and CNR will cease and Appalachia will become the owner, without the necessity for any separate transfer, of all the rights and property of CER and CNR and Appalachia will become subject to all of the liabilities and obligations of CER and CNR.

5. Binding Effect. This Agreement will benefit and be binding on the respective successors and assigns of CER, CNR and Appalachia.

IN WITNESS WHEREOF, the parties hereto have executed this Agreement effective the date first above written.

COLUMBIA NATURAL RESOURCES, LLC, a Delaware limited liability company

By: _____
Henry J. Hood, Vice President

COLUMBIA ENERGY RESOURCES, LLC, a Delaware limited liability company

By: _____
Henry J. Hood, Vice President

CHESAPEAKE APPALACHIA, L.L.C., an Oklahoma limited liability company

By: _____
Henry J. Hood, Vice President

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The undersigned, Chesapeake Energy Corporation., being the sole member of Chesapeake Appalachia, L.L.C., hereby approves this Agreement of Merger effective the date first above written.

CHESAPEAKE ENERGY CORPORATION., an Oklahoma corporation

By: _____
Henry J. Hood, Senior Vice President

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Word/Compliance/Corporate/Companies/Columbia Energy Resources LLC/Agreement of Merger into Appalachia

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SCHEDULE A

CERTIFICATE OF MERGER
OF
COLUMBIA ENERGY RESOURCES, LLC
AND
COLUMBIA NATURAL RESOURCES, LLC
INTO
CHESAPEAKE APPALACHIA, L.L.C.

Pursuant to Section 2054 of the Oklahoma Limited Liability Company Act,

Chesapeake Appalachia, L.L.C., as the surviving limited liability company, hereby states and certifies as follows:

1. The name of each constituent entity is Columbia Energy Resources, LLC, a Delaware limited liability company, Columbia Natural Resources, LLC, a Delaware limited liability company and Chesapeake Appalachia, L.L.C., an Oklahoma limited liability company.

2. An Agreement of Merger has been approved, adopted, certified, executed and acknowledged by each of the constituent entities pursuant to 2054 of the Oklahoma Limited Liability Company Act.

3. The surviving entity will be Chesapeake Appalachia, L.L.C., an Oklahoma limited liability company.

4. There are no amendments or changes to the certificate of formation of Chesapeake Appalachia, L.L.C. which will continue as the certificate of formation of the surviving entity.

5. The Agreement of Merger is on file at 6100 North Western Avenue, Oklahoma City, Oklahoma 73118, the principal place of business of Chesapeake Appalachia, L.L.C..

6. A copy of the Agreement of Merger will be furnished by Chesapeake Appalachia, L.L.C. on request, without cost, to any member of or person holding an interest in the constituent entities.

7. The merger is to become effective upon the filing of this Certificate of Merger.

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IN WITNESS WHEREOF, the surviving limited liability company has caused this Certificate of Merger to be executed this _____ day of January, 2006.

CHESAPEAKE APPALACHIA, L.L.C., an Oklahoma limited liability company

By: _____
Henry J. Hood, Vice President

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SCHEDULE B

CERTIFICATE OF MERGER
OF
COLUMBIA ENERGY RESOURCES, LLC
AND
COLUMBIA NATURAL RESOURCES, LLC
INTO
CHESAPEAKE APPALACHIA, L.L.C.

Pursuant to Section 18-209 of the Delaware Limited Liability Company Act

The undersigned constituent entities each hereby states and certifies as follows:

FIRST: The name of each constituent entity is Columbia Energy Resources, LLC, a Delaware limited liability company, Columbia Natural Resources, LLC, a Delaware limited liability company and Chesapeake Appalachia, L.L.C., an Oklahoma limited liability company.

SECOND: An Agreement of Merger has been approved, adopted, certified, executed and acknowledged by each of the constituent entities pursuant to 2054 of the Oklahoma Limited Liability Company Act and Section 18-209 of the Delaware Limited Liability Company Act.

THIRD: The surviving entity will be Chesapeake Appalachia, L.L.C., an Oklahoma limited liability company.

FOURTH: There are no amendments or changes to the certificate of formation of Chesapeake Appalachia, L.L.C. which will continue as the certificate of formation of the surviving entity.

FIFTH: The Agreement of Merger is on file at 6100 North Western Avenue, Oklahoma City, Oklahoma 73118, the principal place of business of Chesapeake Appalachia, L.L.C..

SIXTH: A copy of the Agreement of Merger will be furnished by Chesapeake Appalachia, L.L.C. on request, without cost, to any member of or person holding an interest in the constituent entities.

SEVENTH: The surviving entity, Chesapeake Appalachia, L.L.C., an Oklahoma limited liability company, agrees that it may be served with process in the State of Delaware in any action, suit or proceeding for the enforcement of any obligation of Columbia Energy Resources, LLC, a Delaware limited liability company and Columbia Natural Resources, LLC, a Delaware limited liability company which is merging into it and irrevocably appoints the Secretary of State as its agent to accept service of process in any such action, suit or proceeding a copy of such process shall be mailed to it by the Secretary of State at 6100 North Western Avenue, Oklahoma City, Oklahoma 73118.

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EIGHTH: The merger is to become effective upon the filing of this Certificate of Merger.

IN WITNESS WHEREOF, the undersigned constituent entities have caused this Certificate of Merger to be executed this _____ day of January, 2006.

COLUMBIA NATURAL RESOURCES, LLC, a Delaware limited liability company

By: _____
Henry J. Hood, Vice President

COLUMBIA ENERGY RESOURCES, LLC, a Delaware limited liability company

By: _____
Henry J. Hood, Vice President

CHESAPEAKE APPALACHIA, L.L.C., an Oklahoma limited liability company

By: _____
Henry J. Hood, Vice President

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West Virginia Secretary of State — Online Data Services

Business & Licensing

Online Data Services Help

Business Organization Detail

NOTICE: The West Virginia Secretary of State's Office makes every reasonable effort to ensure the accuracy of information. However, we make no representation or warranty as to the correctness or completeness of the information. If information is missing from this page, it is not in the The West Virginia Secretary of State's database.

COLUMBIA NATURAL RESOURCES, LLC

Organization Information							
Org Type	Effective Date	Filing Date	Charter	Class	Sec Type	Termination Date	Termination Reason
LLC | Limited Liability Company	11/4/1985	11/4/1985	Foreign	Profit		2/7/2006	Merger

Organization Information			
Business Purpose		Capital Stock	
Charter County		Control Number	0
Charter State	DE	Excess Acres	
At Will Term	A	Member Managed	MBR
At Will Term Years		Par Value	
Authorized Shares			

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Addresses

Type	Address
Designated Office Address	900 PENNSYLVANIA AVE. CHARLESTON, WV, 25302 USA
Notice of Process Address	CT CORPORATION SYSTEM 5400 D BIG TYLER ROAD CHARLESTON, WV, 25313 USA
Principal Office Address	900 PENNSYLVANIA AVE. CHARLESTON, WV, 25302 USA
Type	Address

Officers

Type	Name/Address
Member	COLUMBIA ENERGY RESOURCES, LLC 900 PENNSYLVANIA AVE. CHARLESTON, WV, 25302 USA
Type	Name/Address

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Mergers

Merger Date	Merged	Merged State	Survived	Survived State
11/24/2003	TRIANA ENERGY, INC.	DE	COLUMBIA NATURAL RESOURCES, LLC	DE
12/28/2005	TRIANA ENERGY LEASES, INC.	DE	COLUMBIA NATURAL RESOURCES, LLC	DE
Merger Date	Merged	Merged State	Survived	Survived State

Date	Amendment
2/7/2006	MERGER: MERGING COLUMBIA ENERGY RESOURCES, LLC, A NON-QUALIFIED DE ORGANIZATION, COLUMBIA NATURAL RESOURCES, LLC, A QUALIFIED DE LIMITED LIABILITY COMPANY WITH AND INTO CHESAPEAKE APPALACHIA, L.L.C., A QUALIFIED OK LIMITED LIABILITY COMPANY, THE SURVIVOR

4300705W

12/28/2005	MERGER: MERGING TRIANA ENERGY LEASES, INC., A QUALIFIED DE CORPORATION WITH AND INTO COLUMBIA NATURAL RESOURCES, LLC, A QUALIFIED DE LIMITED LIABILITY COMPANY, THE SURVIVOR
11/24/2003	MERGER: MERGING TRIANA ENERGY, INC., A QUALIFIED DE CORPORATION WITH AND INTO COLUMBIA NATURAL RESOURCES, LLC, A QUALIFIED DE LIMITED LIABILITY COMPANY, THE SURVIVOR
9/4/2003	CONVERSION - ON AUGUST 27, 2003, COLUMBIA NATURAL RESOURCES, INC., A QUALIFIED TEXAS CORPORATION WAS CONVERTED INTO COLUMBIA NATURAL RESOURCES, LLC, A LIMITED LIABILITY COMANY ORGANIZED UNDER THE LAWS OF THE STATE OF DELAWARE. THE NAME OF THE DELAWARE LIMITED LIABILITY COMPANY IS COLUMBIA NATURAL RESOURCES, LLC. PURSUANT TO ARTICLE 5.20 OF THE TEXAS BUSINESS CORPORATION ACT AND SECTION 18-214 OF THE DELAWARE LIMITED LIABILITY COMPANY ACT, THE CONVERSION HAS THE EFFECT OF CONTINUING THE EXISTENCE OF THE ENTITY, WITHOUT INTERUPTION, IN A NEW ORGANIZATIONAL FORM.
1/21/1999	MERGER: MERGING ALAMCO, INC., A QUAL DE CORP WITH AND INTO COLUMBIA NATURAL RESOURCES, INC., A QUAL TX CORP, THE SURVIVOR.
7/26/1996	MERGER; MERGING COLUMBIA COAL GASIFICATION CORP., WITH AND INTO COLUMBIA NATURAL RESOURCES, INC., A QUAL TX CORP, THE SURVIVOR.
9/16/1988	MERGER; MERGING BIG MARSH OIL COMPANY, A QUAL WV CORP, WITH AND INTO COLUMBIA NATURAL RESOURCES, INC., A QUAL TX CORP, THE SURVIVOR.
Date	Amendment

Annual Reports

Date	Filed For
3/29/2005	2005
2/16/2005	2005
3/11/2004	2004
3/10/2003	2003
10/31/2001	2002
4/23/2001	2001
	2000

4300705W

	1999
Date	**Filed For**

Images

View	Name	Date Added	Date Effective	Type
View	COLUMBIA NATURAL RESOURCES, LLC	12/30/2005	11/4/1985	M - Mergers, Conversions, Consolidations
View	COLUMBIA NATURAL RESOURCES, LLC	4/13/2005	11/4/1985	E - Company Ending
View	COLUMBIA NATURAL RESOURCES, LLC	2/22/2005	11/4/1985	C - Officer Changes
View	COLUMBIA NATURAL RESOURCES, LLC	12/2/2003	11/4/1985	M - Mergers, Conversions, Consolidations
View	COLUMBIA NATURAL RESOURCES, LLC	9/18/2003	11/4/1985	O - Other Filings
View	COLUMBIA NATURAL RESOURCES, INC.	8/12/2003	11/4/1985	M - Mergers, Conversions, Consolidations
View	COLUMBIA NATURAL RESOURCES, INC.	4/30/2003	11/4/1985	O - Other Filings
View	COLUMBIA NATURAL RESOURCES, INC.	1/27/1999	11/4/1985	O - Other Filings
View	**Name**	**Date Added**	**Date Effective**	**Type**

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http://apps.sos.wv.gov

Wednesday, December 19, 2012 — 9:57 AM

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4300705 W

WW-2A-1

Operator: Chesapeake Appalachia, L.L.C.

Operator's Well #: 805808 WO

API Well #: 047- 043- 0705 F
State County Permit

INFORMATION SUPPLIED UNDER WEST VIRGINIA CODE
Chapter 22, Article 6, Section 8(d)
IN LIEU OF FILING LEASE(S) AND OTHER CONTINUING CONTRACT(S)

Under the oath required to make the verification on page 1 of this Notice and Application, I depose and say that I am the person who signed the Notice and Application for the Applicant, and that -

(1) the tract of land is the same tract described in this Application, partly or wholly depicted in the accompanying plat, and described in the Construction and Reclamation Plan;

(2) the parties and recordation data (if recorded) for lease(s) or other continuing contract(s) by which the Applicant claims the right to extract, produce or market the oil or gas are as follows:

Grantor, lessor, etc.	Grantee, lessee, etc.	Royalty	Book/Page
Horse Creek Coal Land Company	South Penn Oil Company	1/8	40 / 437

Well Operator: Chesapeake Appalachia, L.L.C.

Signed by (print): Michael John

Its: Vice President of Operations

Signature: [signature]

Date: 10/29/08

RECEIVED
Office of Oil & Gas

OCT 30 2008

WV Department of
Environmental Protection

NOD
WW-2A
8/19/15

Operator: CHESAPEAKE APPALACHIA, L.L.C.

API: 4300705

WELL No: 805808

OK
10/22/15

Reviewed by: g mm Date: 08/18/15

15 Day End of Comment: 08/11/15

CHECKLIST FOR FILING A PERMIT

Re-Work

Ck# 5276050
$650.00

- [x] WW-2B
- [x] Inspector signature on WW-2B
- [x] Completion / Well Records of Previous Work
- [x] WW-2A (Notarized)
- [x] Certified Mail Receipts, Waivers, or Affidavits of Personal Service
- [ ] Surface Owner Waiver
- [ ] Coal Owner / Lessee /Operator Waiver
- [x] WW-2A-1 (Signed) Showing Book/Page Number and Royalty Percentage
- [x] WW-9 (Page 1 & 2) (Notarized)
- [NO] More than 5,000 bbls
- [x] Inspector Signature on WW-9
- [x] Reclamation plan
- [x] Topographic Map of location of well
- [x] Mylar Plat (Signed Sealed) (Surface owner on plat matches WW-2A)
- [x] Bond
- [x] Company is Registered with the SOS
- [ ] Worker's Compensation / Unemployment Insurance account is OK
- [x] $650.00 check (~~$550.00 if no pit~~)
- [x] Mine Data
- [ ] Addendum
- [ ] Professional Engineer/Company has COA