

#### 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.

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

James Martin

Chief

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

- 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.
- 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.

#### 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 Ck# 5276050 Production X Underground Storage (b) If Gas: \$1,5000 Shallow X Deep 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: <u>Run and cement 4 <sup>1</sup>/<sub>2</sub></u> casing, stimulate Big Lime/Injun 13) CASING AND TUBING PROGRAM

TYPE	S	PECIFICATION	١S	FOOTAGE INT	ERVALS	CEMENT	
	SIZE	GRADE	WEIGHT PER FT.	FOR DRILLING	LEFT IN WELL	FILL-UP (CU.FT.)	
Conductor							
Fresh Water							PDT 115
Coal	8 5/8"		24#	653	653	Existing casing	RD1 07/23/15
Intermediate	6 5/8"		20#	1856	1856	Existing Casing	
Production	4 1⁄2"	М	9.5#		2100	55	
Tubing	2 3/8"	J	4.6#	AS	NEEDED		
Lining							

PACKERS: Kind \_\_\_\_\_ Sizes\_\_\_\_\_ Depths set \_\_\_\_\_

ORM J 9/-P C 9 D				х.		
	Uni	ted Fuel (				4300705W
		C	COMPANY			
SERIAL WELL NO. 5808		LEASE NO	4976	<u> </u>		MAP SQUARE 42-43
RECORD OF WELL NO. 5808	on the	•	CASING AND	TUBING		TEST BEFORE SHOT
lorse Ck. L. & M. Cofarm of 113	24Acres	SIZE	WEIGHT	USED IN DRILLING	LEFT IN WELL	2 /10 of Water in _2inch
in Jefferson	District	8 5/8"	. 24#		65315#	/10 of Merc. ininch
Lincoln	County	6 5/8 <sup>n</sup>	20#		1855 '9"	Volume 60 M Cu. ft.
State of: West Virginia		·				TEST AFTER SHOT
Field: Kanawha						32 /10 of Water in_2inch
Rig Commenced Contractor	194					/10 of Merc. ininch
Rig Completed Contractor	194					Volume239_MCu, ft.
Drilling Commenced August 13	194 <b>6</b>					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.				BHUT IN		Oil Flowedbbls. 1st 24 hrs.
			Date_	11-7-46		Oil Pumpedbbls. 1st 24 hrs.
Driller's Name Ashly Stowers			6 5/ <u>R</u>		fulling of Casing	······································
Walter Barrett			Size of Pac	<sub>ker</sub> 6 5/8"	x8 <sup>1</sup> "x10"	Well abandoned and
			Kind of Pa			Plugged194
				etf		* 145804
Elevation: 1149.59 Gr.			2nd Perf. Se			······································
		DRILL	ER'S RECORD		· · · · · · · · · · · · · · · · · · ·	
FORMATION	тор	воттом	THICKNESS			REMARKS
Soil	0	20				
Blue Slate	20	79				······
Coal	79	82				
Slate	82	173				
Sand	173	220				
Slate	220	397		Fresh V	Vater at	2601.
Sand	397	457				
Slate	457	495				
Broken Sand	495	525				· · · · · · · · · · · · · · · · · · ·
Send	525	555				
Slate	555	568				· · · · · · · · · · · · · · · · · · ·
Coal	568	573			·	
Slate	573	595			<u></u>	
Sand	595	623		<u> </u>		
Slate	623	765				
Sand	765	785				

860

785

Slate

10/23/2015

Showing of gas at 810'.

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

43007052

		DRILLI	ER'S RECORD	
FORMATION	Тор	воттом	THICKNESS	REMARKB
Sand	860	915		
Slate	915	968		
Lime Shell	968	987		
Salt Sandi	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 % in 1".
Injun Sand	1997	2040		
Slate Shells	2040	2462		
Brown Shale	2462	2481		Gas at 2483 - 2486 - Increase from
Be <b>re</b> a 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.
•		· .		
·				
···				
				·
				40/99/904E
	_			10/23/2015

4300705W

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

5)

4) Surface owner(s) to be served:

- Name: Billy Goldsy Adkins (a) Address: 50 Walnut Lane Alkol, WV 25501
- Name: See Attached List (b) Address for Access Surface Owners

- (a) Coal Operator: Name: Allegheny Land Company Address: C/O Arch Coal, Inc. P.O. Box 502681 St. Louis, MO 63150
- Coal Owner(s) with Declaration: b) Horse Creek Land and Mining Co Name: Address: 300 Capital Street, Suite 1503 Charleston, WV 25301

Name: (c) Address:

OR

Name: Address:

6) Inspector: Ralph Triplett Name:

Address: 3359 McClellan Highway Branchland, WV 25506 Telephone: 304-389-0350

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

Appalachia South

### 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

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)

Certified Mail (Postmarked postal receipt attached) X

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 Publia State of West Virginia Phyllis A. Copicy 144 Willard Circle Hurricane, W 25525 My Commission Expires Beptember 16, 2018	Well Operator: By: It's Address: Telephone:	CHESAPEAKE APPAL SCHIA Manager – Operations, Appalach P.O. Box 18496 Oklahoma City, OK 73154-0496 405-935-4073
Subscribed and sworn before me this	23rd da 1. Cipley	ny of July 2015 Notary Public,
My Commission expires September	16, 2018	

**Oll 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 10/23/2015 depprivacyofficer@wv.gov.

WW2-A

(Rev. 6-07)

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



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WW-2A1 (Rev 1/11)

OCT 2 2 2015

WV Department of Environmental Protection 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:

<u>Grantor, lessor, etc.</u>	Grantee, lessee, etc.	<u>Royalty</u>	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.

Well Operator:

By:

Its:

Chesapeake Appalachia, L.L.C.

David Gocke

Manager - Operations, Appalachia South

# 4300705W

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



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

October 15, 2008

#### **TITLE OPINION**

AB/0571

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:

...

; ?<sup>4</sup>

• • • •

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 **Februaryst4sc1898**, to October 1, 2008 at H:00 ram. (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 period 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:

Office of Otherson And

### SEP 2 C.S

WV Designation

# RECEIVED OCT 21 2008 LAND DEPT

#### SCHEDULE OF OWNERSHIP

#### SURFACE ESTATE:

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2101 Bi	Regina Cantley		100%
<u>OIL AN</u>	ID GAS ESTATE:		
Owner;			Interest
300 Cap	reek Land and Mining Company pitol Street, Suite 1540 ton, WV 25301*		100%
	WORKING INTEREST: Chesapeake Appalachian, LLC		().8750()%.
	ROYALTY INTEREST <sup>1</sup> : Horse Creek Land and Mining Company		0.12500%
	TOTAL WORKING AND ROYALTY INTEREST:		1.000000
COAL	ESTATE:		
Horse C	reck Land and Mining Company		100%
COALI	LEASE:		
Alleghe	ny Land Company acres		
	LEASE AND ASSIGNMEN	TSUMMARY	
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.	
		8	

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4300705W

	Grantee:		Columbia Gas Transmission	Co.			
	Conveyed:		All right, title and interest.				
2)	Assignment:						
	Dated:		July 31, 1990				
	Admitted to Record:	27	August 18, 1990				
	Recorded:		Assignment Book 12, Page 4	147			
	Assignor:		Columbia Gas Transmission	Co.			
	Assignee:		Columbia Natural Resources	s, Inc.			
	Assigned:		All right, title & interest in a	nd to certain,			
3)	Certificate of Conversion:		properties situate in Lincoln	County.			
	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, LI	.C.			
	Conveyed:		All right, title & interestsit	tuate in West			
COAL	LEASE		Virginia,				
I. <u>C(</u>	DAL LEASE:					VED	
	Dated:	June 14,	1978	Office of			Gas
	Admitted to Record:	August 2	21, 1978	SEP	9	2015	
	Recorded:	Lease Bo	ook 38. Page 671	JEP	-	. 2010	

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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 Lesson
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.

2.

#### 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 insolar 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.

<u>Requirement A</u>: 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.

<u>Requirement B</u>: 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 casements 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 casements.

<u>Requirement C</u>: 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

<u>Requirement D:</u> 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
- Tax Map 13, Parcel 43.2 Phil and Regina Cantley. 2101 Bulger Road Alkol, WV 25501
- Tax Map 999, Parcel 0500 0812 Horse Creek Land and Mining. 300 Capitol Street Suite 1503 Charleston, WV 25301

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

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

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

TAX LIENS:

None

None

JUDGMENT LIENS:

#### DEEDS OF TRUST:

 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

Office of Oil and Gas

### SEP 2 2015

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- 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
- 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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# SEP 2 2015

WV Department of Environmental Protection

#### 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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4300705W

(5/13)			API Number 47 – 043 - 00705 Operator's Well No.  805808 WO
	DEPARTMENT OF	E OF WEST VIRGINIA ENVIRONMENTAL PRO CE OF OIL AND GAS	DTECTION
Operator Name	CHESAPEAKE APPALACHIA	, L.L.C. OP Code	494477557
Water (HUC 10) Lef	t Fork of Mud River	Quadrangle_	Griffithsville, WV 7.5'
Elevation: 1,108'	County Lincoln	District Jefferson	
Description of anticip	ated using more than 5,000 bbls	s of water to complete the	proposed well work: Yes No X
Will a pit be used for	drill cuttings? Yes No X		
Will a synthe Proposed Dis	described anticipated pit waste: tic liner be used in the pit? Yes sposal Method for treated Pit Wa Land Application Underground Injection ( Reuse (at API Number X Off Site Disposal (Supp Other (Explain	X     No     If so, what r       astes:     (UIC Permit)	nl.? <u>6</u> 20 MI.
Will closed loop syste	em be used? <u>No (Not Drilling)</u>		
Drilling medium antic	ipated for this well? Air, fresh wa	ater, oil based, etc	
If oil based, w	vhat type? Synthetic, petroleum,	, etc	
Additives to be used i	in drilling medium?		
Drilling cuttings dispo	sal method? Leave in pit, landfil	II, removed offsite, etc.	
If left in pit an	nd plan to solidify what medium v	vill be used? (Cement, lin	ne, sawdust)
Landfill or off	site name/permit number?		
issued on August 1, 2 understand that the p permit and/or other and I certify under this application form a responsible for obtain	2005, by the Office of Oil and Ga rovisions of the permit are enfor- pplicable law or regulation can le r penalty of law that I have perso and all attachments thereto and t sing The information, I believe that penalties for submitting false infor-	s of the West Virginia Div ceable by law. Violations ad to enforcement action mally examined and am fa that, based on my inquiry at the information is true,	amiliar with the information submitted on
Company Official (Typ Company Official Title	ped Name) David Gocke	perations, Appalachia So	uth
11 11 11 11 11 11 11 11 11 11 11 11 11	n before me this <u>23rJ</u> day		Received Netacy Publicit & Gas
			Ometri 1 4515

September 16, 2018 My Commission expires \_\_\_\_

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Form WW-9		Operator's We API Well Numb		805808 WO 47 – 043 - 00705
Proposed Revegetation Treatmen	t: Acres Disturbed	1.0 Preve	getation pH	6.1
Lime <u>3</u>	Tons/acre or to correct to	рН <u>6.5</u>	_	
Fertilizer (10-20-20 or eq	uivalent) <u>500</u> lbs/acre	e (500 lbs minimur	n)	
Mulch <u>Hay 2</u>	_ Tons/acre			
	See	d Mixtures		
Area I			А	rea 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 : Raeph D. Trupeall

Comments:

District Inspector \_\_\_\_\_ Title:

(

Field Reviewed?

\_\_\_\_) Yes (\_\_\_\_\_\_) No

Date: July 23, 20/5



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.

10/23/2015

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





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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 <u>No water sampling</u>

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. <u>Merger</u>. 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. <u>Certificate of Merger</u>. 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. <u>Effective Date</u>. 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. <u>Transfer</u>. 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. <u>Binding Effect</u>. 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 RÉSOURCES, 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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### SCHEDULE A

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

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# 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 entitles 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:

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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.

والمراجع والمراجع المراجع فلالته والمراجع والمراجع ومتحص ومتحول والمناطقة والمتقا والمتحد والمتح

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

The undersigned constituent entitles 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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WV Department <u>10/23/2015</u> Environmental Protection

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

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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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AUG 2 5 2015

WV Department of Environmental Protection

Word/Compliance/Corporate/Companies/Columbia Energy Resources LLCM greement of Merger Into Appalachia

# 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 Туре	Termination Date	Termination Reason
LLC   Limited Liability Company	11/4/1985	11/4/1985	Foreign	Profit		2/7/2006	Merger

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				RECEIVED Office of Oil and (
	and the standard stan			AUG 25 2015

WV Department of Environmental Protection

http://apps.sos.wv.gov/business/corporations/organization.aspx?org=6284

12/19/20/23/2015

43007052

Addresses		
Туре	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	
Туре	Address	

Officers		
Туре	Name/Address	
Member	COLUMBIA ENERGY RESOURCES, LLC 900 PENNSYLVANIA AVE. CHARLESTON, WV, 25302 USA	RECEIVED Office of Oil and Go
Туре	Name/Address	AUG 25 2015

- <del>WV Department of</del> nvironmental Protection

Mergers Environmental Pro				
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

http://apps.sos.wv.gov/business/corporations/organization.aspx?org=6284

43007052

Date		Amendment
9/1	6/1988	MERGER; MERGING BIG MARSH OIL COMPANY, A QUAL WV CORP, WITH AND INTO COLUMBIA NATURAL RESOURCES, INC., A QUAL TX CORP, THE SURVIVOR.
7/2	6/1996	MERGER; MERGING COLUMBIA COAL GASIFICATION CORP., WITH AND INTO COLUMBIA NATURAL RESOURCES, INC., A QUAL TX CORP, THE SURVIVOR.
1/2	1/1999	MERGER: MERGING ALAMCO, INC., A QUAL DE CORP WITH AND INTO COLUMBIA NATURAL RESOURCES, INC., A QUAL TX CORP, THE SURVIVOR.
9/4	4/2003	COMPANY, THE SURVIVOR 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.
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
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

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	

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	1999	
Date	Filed For	

Image	Images				
View	Name	Date Added	Date Effective	Туре	
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	Туре	

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Wednesday, December 19, 2012 - 9:57 AM

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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, LLC		
Signed by (print)	: Michael John	
lts:	Vice President of Operations	
Signatures	MOD	
Date:	10/24/08	

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WV Department of Environmental Protection

4300705 W

NOD WW-2A 8/14/15	Operator:	CHESAPEAKE APPALACHIA, L.L.C.
WW-2A	API:	4300705
8/14/15	WELL No:	805808
OK	Reviewed by:	
10/2/15	15 Day End of	f Comment: 08/11/15

#### **CHECKLIST FOR FILING A PERMIT**

**Re-Work** 

CK# 5276050

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