

### 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

March 13, 2015

### WELL WORK PLUGGING PERMIT

### Plugging

This permit, API Well Number: 47-4301853, issued to CHESAPEAKE APPALACHIA, L.L.C., is evidence of permission granted to perform the specified well work at the location described on the attached pages and located on the attached plat, subject to the provisions of Chapter 22 of the West Virginia Code of 1931, as amended, and all rules and regulations promulgated thereunder, and to all conditions and provisions outlined in the pages attached hereto. Notification shall be given by the operator to the Oil and Gas Inspector at least 24 hours prior to the construction of roads, locations, and/or pits for any permitted work. In addition, the well operator shall notify the same inspector 24 hours before any actual well work is commenced and prior to running and cementing casing. Spills or emergency discharges must be promptly reported by the operator to 1-800-642-3074 and to the Oil and Gas inspector.

Upon completion of the plugging well work, the above named operator will reclaim the site according to the provisions of WV Code 22-6-30. The above named operator will also file, as required in WV Code 22-6-23, an affidavit on form WR-38 by two experienced persons in the operator's employment and the Oil and Gas inspector that the work authorized under this permit was performed and a description given. Failure to abide by all statutory and regulatory provisions governing all duties and operations here under may result in suspensions or revocation of this permit and in addition may result in civil and/or criminal penalities being imposed upon the operator.

This permit will expire in two (2) years from date of issue. If there are any questions, please free to contact me at (304) 926-0499 ext. 1654.

Chief

Operator's Well No: 5998

Farm Name: RICE, ALBERT

API Well Number: 47-4301853

Permit Type: Plugging
Date Issued: 03/13/2015

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. All pits must be lined with a minimum of 20 mil thickness synthetic liner.
- 2. In the event of an accident or explosion causing loss of life or serious personal injury in or about the well or while working on the well, the well operator or its contractor shall give notice, stating the particulars of the accident or explosion, to the oil and gas inspector and the Chief within twenty-four (24) hours.
- 3. Well work activities shall not constitute a hazard to the safety of persons.
- 4. This well is under a consent order and must be plugged under the terms of that agreement.

1835,00. 4301853P

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

1) Date: 1/26/2015 2) Operator's Well No. 805998 P&A 47-043-01853 3) API Well No.

### STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION

			OFFICE O	F O	IL AND	SAS			
4)	Well Type: (Is Gas, Prod	APPLICATIO Oil Gas duction X or Undergroun			quid injecti			aste disposal	X
5)	Location:	Elevation 901' District Carroll	Watershed				Hungry	Creek	
6)	Well Operator Address	Chesapeake Appalachia P.O. Box 18496 Oklahoma City, OK 731		7)	Designat Address	ed Agent	P.O. Box	Hamlin, W Greathouse : 6070 on, WV 25362	<u>V 7.5'</u>
8)	Name Ralph Address 5539	pector to be notified n Triplett McClellan Highway chland, WV 25506		9)	Plugging Name Address	P.O. Box	18496	achia, L.L.C. 73154-0496	- -
		ne work order for the mann	See Attached S						
								REC Office of (	EIVED Dil and Gas
								JAN 2	<b>9</b> 2015
							1	WV Depa Environment	artment of al Protection
Noti	fication must be ç	given to the district oil and	gas inspector 2	4 hc	ours before	permitted v	work can c	ommence.	
Wor	ork Order approved by Inspector Date								

47-043-01853

#### 805998 P&A PROCEDURE

NOTE: 6 5/8" may have been pulled

- 1) Prepare road and location. MIRU service rig
- 2) Run in hole with tools to check TD at approximately 2300'
- 3) Attempt to pull 2" and packer
  - A) If successful
    - a) Run W.S. to 2260', spot gel
    - b) Spot 100' cement plug 2260'-2160', pull W.S.
    - c) Proceed to step 4
  - B) If unsuccessful
    - a) Cut 2" at free-point (approximately 2000') and pull
    - b) Run W.S. to 2000', spot gel
    - c) Spot 100' cement plug 2000'-1900', pull W.S.
    - d) Proceed to step 4
- 4) Rip or shoot holes in 6 5/8" at approximately 1800', 1570', and 1550'
- 5) Run W.S. to 1880', spot gel
- 6) Spot 150' cement plug 1880'-1730', pull W.S. to 1575'
- 7) Spot 100' cement plug 1575'-1475', pull W.S.
- 8) Cut 6 5/8" at free-point (approximately 1125') and pull
- 9) Run W.S. to 1125', spot gel

NOTE: If at least 1100' of 6 5/8" can not be pulled, then rip or shoot holes at appropriate depths and spot cement plugs at correct depths.

- appropriate depths and spot cement plugs at correct depths.

  875

  10) Spot 150' cement plug 1125'-975', pull W.S. to 550' Add 150 ft. Commit toget above size.
- 11) Spot 100' cement plug 550'-450', pull W.S. to 150'
- 12) Spot 150' cement plug 150'-surface
- 13) Pull W.S. and top off with cement
- 14) Erect monument and reclaim as prescribed by law

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Office of Oil & Gas

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All

HUNTINGTON DEVELOPMENT & GAS CO.

4301853P

Serial Well No		Lease No	) <b>.</b>	••••	M	ap Square 38-59
RECOR	D OF WELL No. 599	8 on the	CAST	ING AND T	UBING	TEST BEFORE SHOT
Albert Rice	Farm of	Acres	SIZE	USED IN DRILLING	LEFT IN WELL	of Water inincl
i <u>n</u>	Carroll	District	i 16			of Merc. in incl
	Lincoln	County	<b>13</b>			10ths VolumeCu. ft
	Field, State of	va,	ii 10		20	TEST AFTER SHOT
			81/4			of Water inincl
Rig Commenced		192	6%		1830	of Merc. in 2
Rig Completed		192	5 3-16			Volume 615,240 Cu. ft
Drilling Commenced	,	192	47/8			Rock Pressure 525
Drilling Completed	8-2-17	192	4			7-29-17
Drilling to cost	per foot		<u>.</u> 8		304	Size of Torpedo.
Contractor is:	Ed. Kellerman		2	1	2017	Oil Flowedbbls. 1st 24 hrs
Address:			1	SHUT IN		Oil Pumpedbbls, 1st 24 hrs
			Date			
Driller's Names			in		ubing or Casing	Well abandoned and
			Size of Pac	cker	······	Plugged19
			Kind of Pa	acker	********	T. e <sup>1</sup>

1st Perf. Set....

2nd Perf. Set\_\_\_\_from\_\_

DRILLER'S RECORD					
Formation	Top	Bottom	Thickness	Remarks	
Surface Sand Slate Slate Sand Slate Shad Slate Shad Slate Shad Slate Maxton sand Shale Shift sand Sig lime Broken sand Sig lime Broken sand Sig lime Slate & shells Borea grit	0 30 40 105 105 570 570 775 870 925 1095 1095 1095 1095 1095 1095 1095 109	30 40 100 115 220 520 520 520 520 520 520 520 520 52		RECEIVED Office of Oil and Gas 03/13/2015 JAN 2 9 2015 WV Department of Environmental Protection	

WW4-A	
Revised	
2/01	

1) Date:	1/26/2015		
2) Operator's Well No.	805998 P&A		
3) API Well No.	47-043-01853		

# STATE OF WEST VIRGINIA - BUREAU OF ENVIRONMENT DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS NOTICE OF APPLICATION TO PLUG AND ABANDON A WELL

4)	Surface Ow	ner(s) to be served:			<ul><li>Coal Operate</li></ul>	or	
	(a) Name	Barbara & Claude Bl	ankenship	e	(a) Name	None	
	Address	1 Blankenship Lane			Address		
		Summersville, WV 2	6651				
	// A A1				200 ) - and from the second state of the	s) with Declaratio	
	(b) Name				(b) Name	Barbara & Claud	A STATE OF THE PARTY OF THE PAR
	Address				Address	1 Blankenship L	
						Summersville, W	/V 26651
	(c) Name				Name		
	Address		-		Address		
			-			,	
						-	( ( ( ( ( ( ( ( ( ( ( ( ( ( ( ( ( ( (
		***************************************			Coal Lesse	e with Declaration	on:
6)	Inspector	Palph Triplett			(c) Name	None	, ii
0)		Ralph Triplett			Address	None	
	Address	5539 McClellan High			Address		<del></del>
		Branchland, WV 255	06				<del></del>
	T-16	004 000 0050					· · · · · · · · · · · · · · · · · · ·
	reiepnone	304-389-0350					
			a Character and a company		# F - 751		Name and a second distance
10	THE PERSO	NS NAMED ABOVE	: You should	nave received	this Form and	the following doci	uments:
	(1) The applica	ation to Plug and Abandon	a Well on Form	WW-4B, which set	s out the parties in	volved in the work an	d
	The state of the s	he well its and the plugging			e la varie del fres della la vie		
		urveyor's map) showing th					
	4.6	5			r		
		received these document				ch are summarized in	the .
	instructions on	the reverses side. Howev	er, you are not re	equired to take any	action at all.		
	Take notice tha	at under Chapter 22-6 of th	e West Virginia (	Code, the undersig	ned well operator j	proposes to file or has	s filed the
		olication and accompanying					
		/est Virginia Department o					
		cation and depicted on the					
	505	tered or certified mail or de					
	mm	on or before the day of m					
	STATE	Official Seal Notary Public State of West Virginia			chesapeake Appal	achia, L.L.O.	
	CALASS.	Phyllis A. Copley	Ву	_	Wille	Much	
	(巴黎區等)		lts	-		ns, Appalachia South	)
		Willard Circle Hurricane, WV 25526 My Commission Expires	Ad	ldress: F	O. Box 18496	NAME OF TAXABLE PARTY.	
	}	September 16, 2019			klahoma City, OK	73154-0496	
	anna	······································	Te	lephone: 4	05-935-4073		
		0.0	74h				
Subs	scribed and swo	rn before me this 🧳	day of	January	the year of	2015	DECEMEN
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	National Value Princip	tres	- rugus (	10 2010	<del>/</del> "	iolog i obilo	Office of Oil and Gas
	Commission Exp n WW-9	ires	September	10, 2018			

JAN 29 2015

# Well #: 805998 API # 47-043-01853 P

3479		MAIL. RE	CEIPT Coverage Provided)				
E T	For delivery information visit our website at www.usps.com SUMPRSVILLE WV 26651						
	SUINCROVILLE	. USE					
9275	Postage	s \$1.40	0523				
	Certified Fee	\$3.30	03				
000	Return Receipt Fee (Endorsement Required)	\$2.70	Postmark Here				
	Restricted Delivery Fee (Endorsement Required)	\$0.00					
3090		\$7.40 &A (Surface and					
	the countries of the first	nd Claude Blanker	nship				
7010	I Blanken		/				
7	or PC Summers V	ille, WV 26651					
	PS Fd		instructions				

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JAN 29 2015

WV Department of Environmental Protection Rev. 02/01

API Number	47-043-01853
Operator's Well No.	805998 P&A

### STATE OF WEST VIRGINIA

# DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS CONSTRUCTION AND RECLAMATION PLAN AND SITE REGISTRATION APPLICATION FORM GENERAL PERMIT FOR OIL AND GAS PIT WASTE DISCHARGE

Operator Name Chesapeake Appalachia, L.L.C.	OP Code 494477557					
Watershed Hungry Creek	QuadrangleHamlin, WV 7.5'					
Elevation 901' County Linc	oln District Carroll					
Description of anticipated Pit Waste: Plugging Returns/Cer	nent					
Will a synthetic liner be used in the pit? Yes						
Proposed Disposal Method For Treated Pit Wastes:  X Land Application Underground Injection ( UIC Permit Number) Reuse (at API Number) Off Site Disposal (Supply form WW-9 for disposal location) Other (Explain)						
Proposed Work For Which Pit Will Be Used:  Drilling  Workover  Swabbing  X Plugging  Other (Explain)						
I certify that I understand and agree to the terms and conditions of the GENERAL WATER POLLUTION PERMIT issued on December 31, 1999, by the Office of Oil and Gas of the West Virginia Department of Environmental Protection. I understand that the provisions of the permit are enforceable by law. Violations of any term or condition of the general permit and/or other applicable law or regulation can lead to enforcement action.  I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form and all attachments thereto and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine or imprisonment.  Company Official Signature						
Company Official (Typed Name) Dave Gocke						
Company Official Title Manager - Operations, Appalachia South						
Subscribed and sworn before me this 27th day of <u>January</u> , <u>2015</u> .  Notary Public.						
My Commission Expires September 16, 2018	······································					
	Official Seal Notary Public State of West Virginia					

03/13/2015

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14 Willard Circle Hurricane, WV 2552 My Commission Expires Soptember 15, 2018

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### Attachment #1

API #: 47-043-01853 Operator's Well No. 805998 P&A

	LEGEN	U				
Property Boundary	Dive	sion Laurentine	111111111111111111111111111111111111111			
Road = = = = = = = = = =	Sprin	g 🔾				
Existing Fence — X — X — X —	_ Wet !	Spot 🖐	٠			
Planned Fence///	. Drain	Pipe with size in inches	@ <b>_</b>			
Stream	v. jer Wate	Waterway $\longleftrightarrow$				
Open Ditch		Cross Drain 7/1/1/1/1/1/1/1/				
Rock 555	Artif	Artificial Filter Strip				
North N		Pit: cut walls				
Buildings	Pit: c	compacted fill walls	<u>"</u>			
Water wells W	Area	for Land Application of Pit Wa	3510			
Drill site 💮						
Proposed Revegetation Treatment: Acres	Disturbed 1.	Prevegetation pH	6.1			
Lim	e <b>3</b> To	ns/acre or to correct to pH	6.5			
		•				
Fertilizer (10-20-20 or equivalent	;) <u>1/3 TON</u> lbs/a	cre (500 lbs minimum)				
Mulo	ch Hay 2 Tons	/acre				
	Seed M	ixtures				
Area I			Area II			
Seed Type	bs/acre	Seed Type	e lbs/acre			
	40	ORCHARD GRASS	15			
ALSIKE CLOVER	5	ALSIKE CLOVER	5			
ANNUAL RYE	15					
A March:						
Attach:						
	ed area for land :	application				
Drawing(s) of road, location, pit and propos		application.				
		application.				
Drawing(s) of road, location, pit and propos		application.				
Drawing(s) of road, location, pit and propos		application.				
Drawing(s) of road, location, pit and propose Photocopied section of involved 7.5' topogra		application.				
Plan Approved by:		application.				

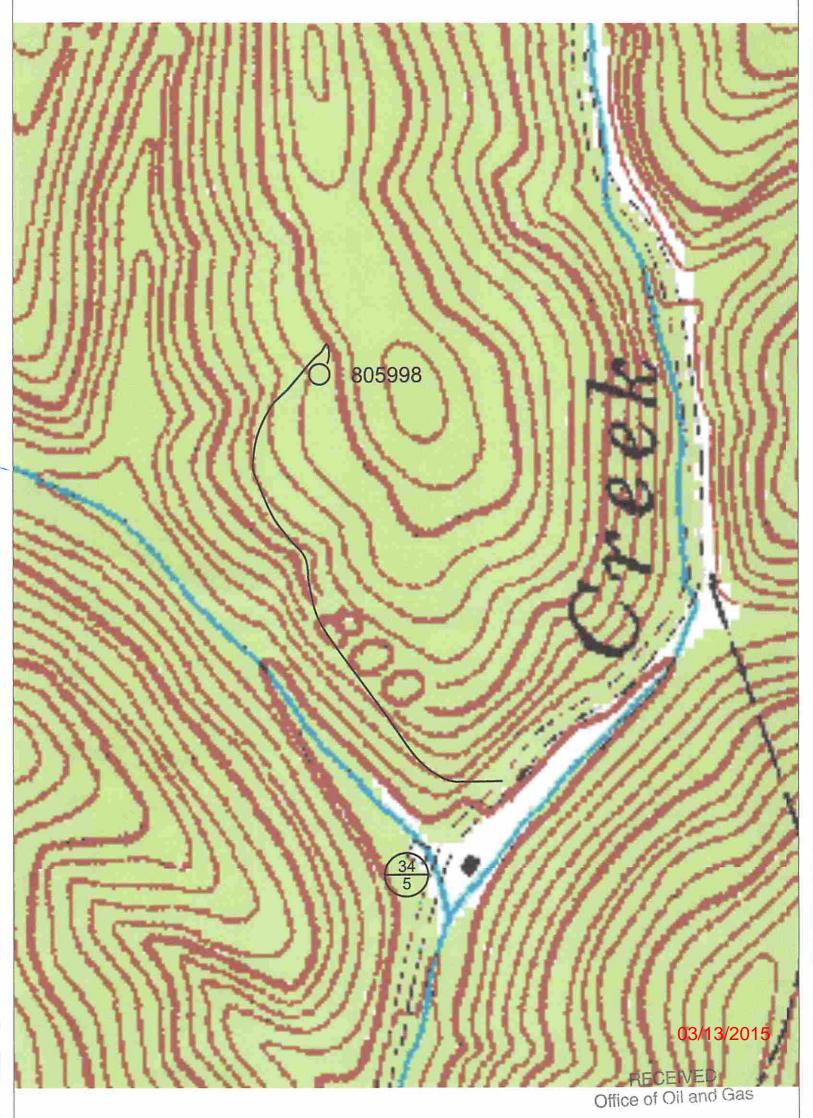
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FEB 0 4 2015

## CHESAPEAKE APPALACHIA, L.L.C.

TOPOGRAPHICAL MAP OF ACCESS AND WELL LOCATION 805998

API 47-043-01853



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

JAN 29 2015

WV Department of Environmental Protection

