

### 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

August 05, 2014

#### WELL WORK PLUGGING PERMIT

### Plugging

This permit, API Well Number: 47-4500612, 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

James Martin

Operator's Well No: 8434

Farm Name: BAISDEN, EARL & CARLENE

API Well Number: 47-4500612

Permit Type: Plugging Date Issued: 08/05/2014

### **PERMIT CONDITIONS**

West Virginia Code § 22-6-11 allows the Office of Oil and Gas to place specific conditions upon this permit. Permit conditions have the same effect as law. Failure to adhere to the specified permit conditions may result in enforcement action.

### **CONDITIONS**

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

CK 515 0934.

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

1) Date: 5/27/2014 2) Operator's Well No. 808434 P&A 3) API Well No. 47-045-00612

# STATE OF WEST VIRGINIA

			DEPARTM	OFFICE O				ECTION		
4)	Well Type: (Is Gas, Prod	Oil	PPLICATIO Gas r Underground			quid injectio			/aste disposal Shallow X	<u>-</u>
5)	Location:	Elevation _ District _	849' Guyan	Watershed County	_	Logan		Fork of B	ig Harts Creek Chapmanville, V	VV 7.5'
6)	Well Operator Address	P.O. Box 18	e Appalachia 3496 City, OK 731		7)	Designate Address	ed Agent	P.O. Box Charlest	<u> </u>	
8)	Address 5539	pector to be no n Triplett McClellan H chland, WV	ghway		9)	Plugging Name Address	Chesape P.O. Box	ake Appal 18496	achia, L.L.C. 73154-0496	
10)	Work Order: Th	ne work order	for the manne	er of plugging t	his v	vell is as fo	llows:			
			S	See Attached S	hee	t				

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JUN 0 3 2014

WV Department of Environmental Protection

Notification must be given to the distri	rict oil and gas inspector 24 hours before	permitted work can commence.
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Work Order approved by Inspector

Rasph D. Trupled

### 808434 P&A PROCEDURE

- 1) Prepare road and location, MIRU service rig
- 2) RIH with tools to check TD at approximately 3470'
- 3) Run W.S. to 3450', load hole with gel
- 4) Spot 150' cement plug 3450'-3300', pull W.S. TAG CEMENT.
- 5) Cut 3 ½" at free-point (approximately 1600') and pull
- 6) Pull or run W.S. to 1600', load hole with gel
- 7) Spot 150' cement plug 1600'-1450', pull W.S. to 1375'
- 8) Spot 100' cement plug 1375'-1275', pull W.S.
- 9) RIH with tools to check top of plug (if TOC is below 1300' then re-set plug)
- 10) Cut 7" at free-point (approximately 950') and pull
- 11) Run W.S. to 950', load hole with gel
- 12) Spot 100' cement plug 950'-850', pull W.S. to 675'
- 13) Spot 150' cement plug 675'-525', pull W.S.
- 14) Attempt to pull 8 5/8"
  - A) If successful
    - a) Run W.S. to 450', load hole with gel
    - b) Spot 100' cement plug 450'-350'
    - c) Proceed to step #15
  - B) If unsuccessful
    - a) Run W.S. to 415'
    - b) Spot 100' plug 415'-315', pull W.S.
    - c) Cut 8 5/8" at free-point (approximately 150') and pull
    - d) Proceed to step #15
- 15) Pull or run W.S. to 150'
- 16) Spot 150' cement plug 150' surface
- 17) Pull W.S. and top off with cement
- 18) Erect monument and reclaim as prescribed by law

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WV Department 08/08/2014 Environmental Protection

RDT



## STATE OF WEST VIRGINIA DEPARTMENT OF MINES OIL AND GAS DIVISION []

Well 80 8434 API 47-045-00612P Page I of 2

Quadrangle Holden

Permit No. LOG- 612

04-10

WELL RECORD

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							(KIND)
Company Uni				Casing and	Used in	1	
Address P.O.	Box 1273;	Charleston 2	5. W. Va.	Casing and Tubing	Drilling	Left in Well	Packers
Farm United F	uel Gas Co	. Min. Tr. #1	Acres 23,469.	33-	4	1000	
		rt Creek		Size			
Well No. 84	34	and the same	Elev. 833.55	16.			West of Dealers
District Chap	mansville	County Lo					Kind of Packer
						211	Hook Wall
The surface of tr					+	341	Size of
200 T.S. N. O. Y. Y.		Address		8 2 5/8	+	364	38" x 7" x 16"
Mineral rights ar		United Fuel (			-	1326	Depth set
		Address_Charles	ston, W. Va.		-		16641
Drilling commend				11/2		3492	Perf. top
		57					Perf, bottom
Date Shot 6-28	-57 From	n 2844 To	3842	Liners Used			Perf. top
With 6	666-2/3# G	elatin					Perf. bottom
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(over)

Formation	Color	Hard or Soft	Top //	Bottom	Oil, Gas or Water	Depth Found	Remarks
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							ceived
		••				CI	ice of Oil and Gas I Environmental Protection

Date October 25 , 19 57

APPROVED UNITED FUEL GAS COMPANY , Owner

By Herrican Civil Engineering Department

WW4-A Revised 2/01 1) Date: 5/27/2014 2) Operator's Well No. 808434 P&A 3) API Well No. 47-045-00612

## 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

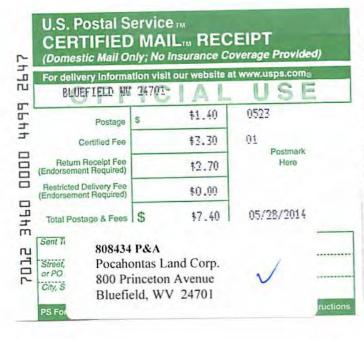
4)	Surface Own		5) Coal Opera	
4	(a) Name	Earl and Carline Baisden	(a) Name	New Eagle Mining Corp.
	Address	Rt. 1 Box 587	Address	
		Harts, WV 25524		Holden, WV 25625
			Coal Owne	er(s) with Declaration
	(b) Name		(b) Name	(-7.1111.23311.211.
	Address		Address	Pocahontas Land Corp
				800 Princeton Avenue
				Bluefield, WV 24701
	(c) Name		Name	
	Address		Address	
			Coal Less	see with Declaration
6)	Inspector	Ralph Triplett	(c) Name	Rockspring Development, Inc.
	Address	5539 McClellan Highway	Address	s P.O. Box 390
		Branchland, WV 25506		East Lynn, WV 25512
	Telephone	304-389-0350		
то	(1) The application describes (2) The plat (s	ation to Plug and Abandon a We he well its and the plugging work urveyor's map) showing the well	location on Form WW-6.	s involved in the work and
то	(1) The application describes (2) The plat (s) The reason your instructions on Take notice that Notice and Applications (see Fig. 2).	ation to Plug and Abandon a We he well its and the plugging work urveyor's map) showing the well u received these documents is the the reverses side. However, you at under Chapter 22-6 of the West colication and accompanying documents.	Il on Form WW-4B, which sets out the parties order; and location on Form WW-6.  at you have rights regarding the application of a regular are not required to take any action at all.  St Virginia Code, the undersigned well operate timents for a permit to plug and abandon a well-	which are summarized in the or proposes to file or has filed the ell with the Chief of the Office of
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# Well 808434 PHA API 47-045-00612P





U.S. Postal Service IM





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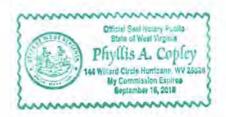
Rev. 02/01

API Number 47-045-00612
Operator's Well No. 808434 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, I	L.L.C.	OP Code 494477557	_
Watershed Buck Fork of Big Harts Cr	eek	Quadrangle Chapman	ville, WV 7.5
Elevation849' County	Logan	District	Guyan
Description of anticipated Pit Waste: Plugging R	eturns/Cement		
Will a synthetic liner be used in the pit? Yes	20	MIL.	
Proposed Disposal Method For Treated Pit Wastes:  X Land Application Underground Injection Reuse (at API Numbe Off Site Disposal (Sup Other (Explain	n ( UIC Permit Nun	)	
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 consisted on December 31, 1999, by the Office of Oil and Gass understand that the provisions of the permit are enforceable permit and/or other applicable law or regulation can lead to I certify under penalty of law that I have personally example this application form and all attachments thereto and that, but for obtaining the information, I believe that the information is significant penalties for submitting false information, including Company Official Signature  Company Official (Typed Name)  David Goc	s of the West Virginia De by law. Violations of enforcement action. mined and am familiar based on my inquiry of its true, accurate, and cing the possibility of fin	Department of Environmental Pro- any term or condition of the ger with the information submitted of those individuals immediately re complete. I am aware that there e or imprisonment.	otection, I peral on esponsible
Company Official Title Manager - C	Operations, Appa	lachia South	
Subscribed and sworn before me this 27th day of Pulls a.  My Commission Expires September 16, 2018	Coply		Notary Public. Received



MAY 2 9 2014

Office of Oil and Gas WV Dept. of Environmental Protection

### Attachment #1

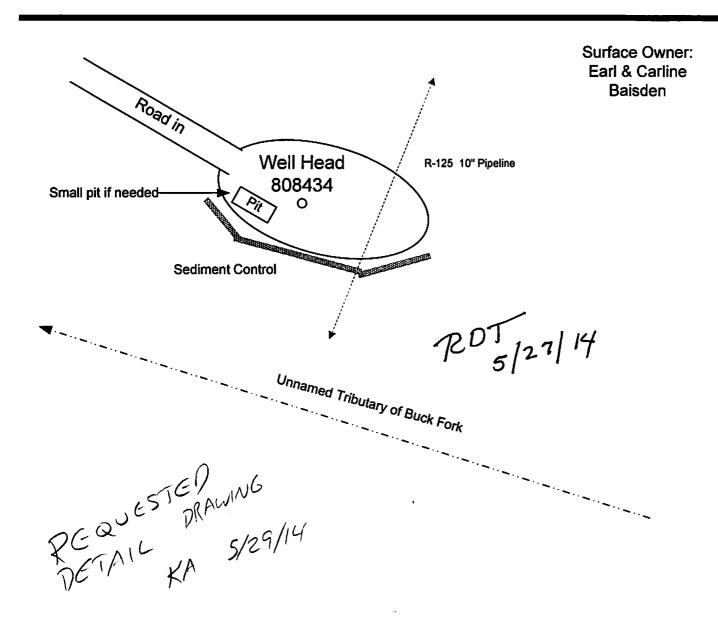
API #: 47-045-00612 Operator's Well No. 808434 P&A

Property Boundary		Diversion Weller 1111111111111111111111111111111111	11/1/1/1/1/1/1/1/1/1/1/1/1/1/1/1/1/1/1/1
Road = = = = = = =	3 3 3	Spring O-	4-64-64
Existing Fence — X — X —	- × —	Wet Spot	
Planned Fence//		Drain Pipe with size in inches	
Stream		Waterway $\longleftrightarrow$	the state of the s
Open Ditch		Cross Drain	
Rock 58988		Artificial Filter Strip XXXXXXXX	
00000			XXXXXXXXX
North N		Pit: cut walls	4
Buildings		Pit: compacted fill walls	ret .
Water wells		Area for Land Application of Pit Waste	<b>3</b>
Drill site		(=====	
Proposed Revegetation Treatmen	t: Acres Disturbed	d1.0 Prevegetation pH6	3.1
	Lime 3	Tons/acre or to correct to pH	3.5
Fertilizer (10-20-20 or eq	uivalent) 1/3 TON	V lbs/acre (500 lbs minimum)	
	Mulah Hay 2	Tons/sere	
	Mulch Hay 2	_ Tons/acre	
	S	eed Mixtures	
Area I		Area	
Seed Type	lbs/acre	Seed Type	lbs/acre
Y-31 LSIKE CLOVER	40 5	ORCHARD GRASS ALSIKE CLOVER	15
NNUAL RYE	15	ALSINE CLOVER	5
ttach:	45.000 to V.000 40		
Drawing(s) of road, location, pit an	d proposed area for	r land application.	
Photocopied section of involved 7.	5' topographic shee	at.	
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Date: May 27 20	014		
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			nvironmental Protection
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## CHESAPEAKE APPALACHIA, L.L.C.

45 006121

Diagram of Well 808434 P&A API 47-045-00612 Field Office - Branchland County - Logan



Site Plan

Prepared by: Kris Aldridge

Date: 5/29/2014

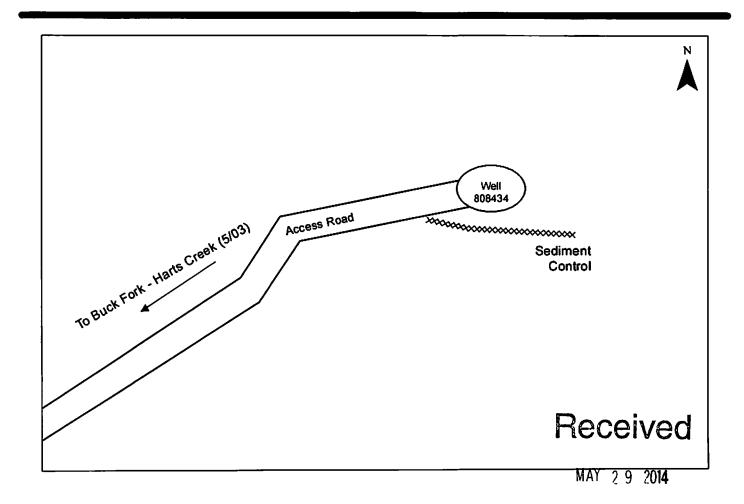
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### CHESAPEAKE APPALACHIA, L.L.C.

Diagram of Well 808434 API 47-045-00612 Field Office - Branchland County - Logan



Office of Oil and Gas
WV Dept. of Environmental Protection

#### **GENERAL NOTES**

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

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

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

Permanent seeding: See Attachment #1

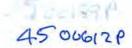
08/08/2014

## Site Plan

Prepared by: Lloyd Reynolds

Date: 5/21/2014

## CHESAPEAKE APPALACHIA, L.L.C.



Topographical Map of Access and Well Location 808434 API 47-045-0612 Field Office - Branchland County - Logan

