

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

December 03, 2013

WELL WORK PLUGGING PERMIT

Plugging

This permit, API Well Number: 47-4500929, 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.

James Martin

Chief

Operator's Well No: 809833

Farm Name: ADKINS, BENNY RAY

API Well Number: 47-4500929

Permit Type: Plugging
Date Issued: 12/03/2013

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

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

 Date:
 Operator's Well No. 809833 P&A 3) API Well No. 47-045-00929

			STATE	OF WE	STVIRG	INIA				
		DE	PARTMENT OF E	NVIRO	NMENTA	L PROTI	ECTION			
			OFFICE	E OF O	IL AND G	SAS				
		APPL	ICATION FOR A	PERMI	T TO PLU	JG AND A	BANDON			
4)	Well Type:	Oil	Gas X	Li	quid injecti	on	Was	ste disposal		
		duction X or Un	derground storage)		еер		Shallow X		
5)	Location:		086' Watersh	ed			Guyandotte			
		District Island	d Creek 65 County		Logan L	Qua	adrangle	Logan, WV	7.5'	442
01								the days		
6)	Well Operator Address		opalachia, L.L.C.	_ 7)		ed Agent	Eric B. Gill			
	Address	P.O. Box 18496	OK 73154-0496	_	Address		P.O. Box 6	n, WV 25362		
		Okianoma City,	OK 73134-0436	-			Charleston	1, WV 25562		
8)	Oil and Gas Ins	spector to be notifie	ed	9)	Plugging	Contracto	r			
		h Triplett		,	Name		ake Appalac	hia, L.L.C.		
		McClellan Hwy			Address	P.O. Box				
	Bran	chland, WV 2550	06			Oklahon	na City, OK 7	73154-0496		
			See Attache	ed Shee	t					
No	tification must be	given to the distric	ct oil and gas inspec	tor 24 h	ours before	e permitted	l work can co	mmence.		

809833 P&A Procedure

- 1) Prepare road and location, MIRU Service Rig
- 2) Either
 - A) Set CIBP at approximately 2500' and place 100' cement on top with dump bailer or work string

Or

- B) Run W.S. to 2525', spot gel and spot 150' cement plug 2525'-2375', pull W.S.
- 3) Run tools to check top of plug. If top of plug is not at least 2425', then re-spot plug.
- 4) Run W.S. to 2225', spot gel
- 5) Spot 100' cement plug 2225'-2125', pull W.S.
- 6) Cut 4 1/2" at free-point (approximately 1750') and pull
- 7) Run W.S. to 4 1/2" casing cut (approximately 1750'), spot gel
- 8) Spot 150' cement plug approximately 1750'-1600'. NOTE: This plug could be set through 4 $\frac{1}{2}$ " prior to pulling.
- 9) Run or pull W.S. to 1325', load hole with gel
- 10) Spot 125' cement plug 1325'-1200', pull W.S. to 670'
- 11) Spot 125' cement plug 670'-545', pull W.S. to 410'
- 12) Spot 100' cement plug 410'-310', pull W.S. to 175'
- 13) Spot 175' cement plug 175'-surface
- 14) Pull W.S., top off with cement
- 15) Erect monument and reclaim as prescribed by law

8a) SPOT 100' CEMENT PLUG ACROSS COAL FROM 1600' - 1500'.

IF 113/4" IS NOT CEMENTED TO SURFACE, SOME CAN BE CUT & PULLED. FREE POINT 113/4, CUT AT FREE POINT, SET 100' CEMENT PLUG ACROSS THE CASING CUT AND PULL 113/4" OUT OF HOLE.

ENTIRE WELLBORE MUST BE FILLED WITH GEL (MINIMUM OF 6% BYWEIGHT) OR CLASS A CEMENTO CEMENT PLUCS MUST BE A MINIMUM OF 100 FT.

Office Work

ROT

TECHANICA) JAN 22 1974

form OG-10

(5)



STATE OF WEST VIRG.NIA

DE.T. OF MINES

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Spudder Cable Tools

Roter;

Storage

DEPARTMENT OF MINES OIL AND GAS DIVISION 3 Oundrangle Logan

WELL RECORD

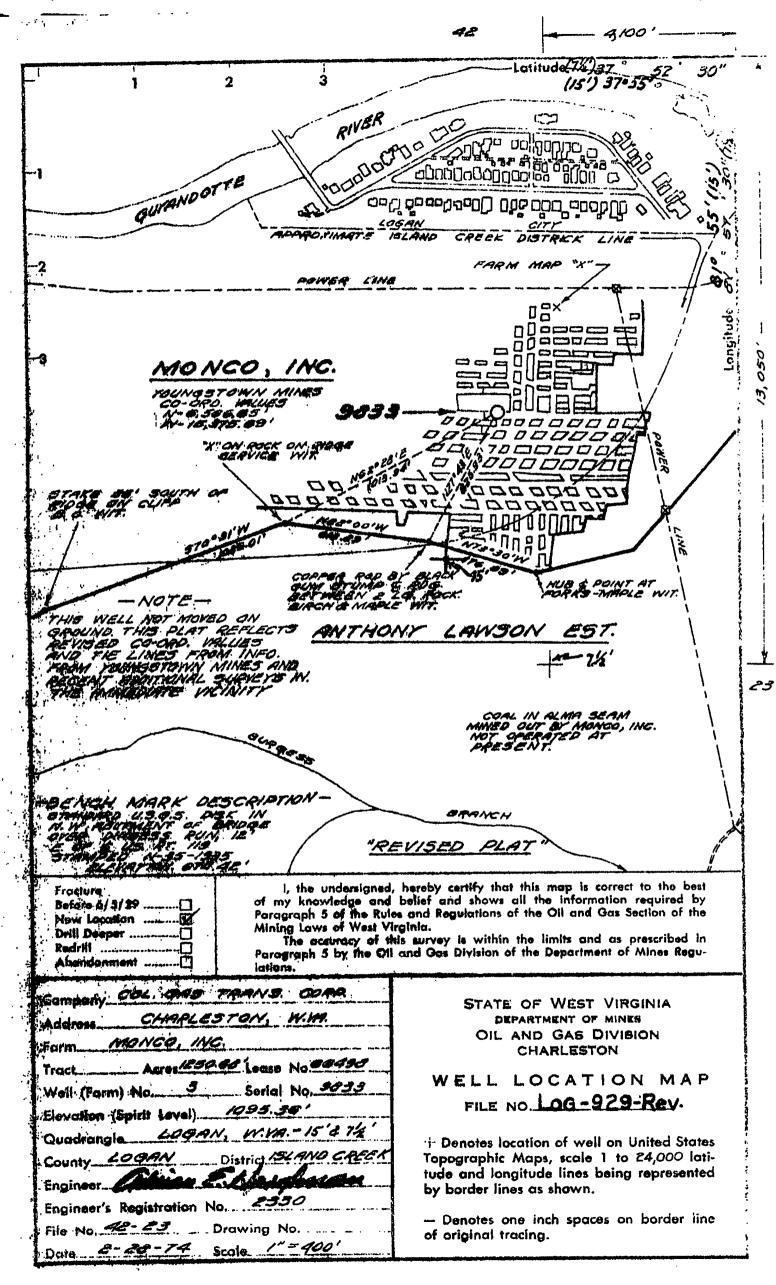
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Permit No. LOG-929	WELL RECORD		Oll or G	as Well Gas U. Noti
Company Columbia Gas Transmission Corpo	ration Casing and Tubing	Used in Drilling	Left in Well	Packers
Farm Monco, Inc. Acres	s 1250,68 Size	A STATE OF THE PARTY OF THE PAR	371	Kind of Packer
Well No. 9833 Elev District Island Creek County Logan	XX 1.1-3/4"	6361	636	Size of
The surface of tract is owned in fee by Monco, Inc	Va . 6%	mun menter.		Depth set
Mineral rights are owned by Monco, Inc.	Va. 41/2	25711	2571	Perf. top. 2523*
Drilling commenced October 6, 1973 Drilling completed October 13, 1973 Date Shot Not Shot From To		Frankling on		Perf. top
Open Flow /10ths Water in/10ths Meter in/10t	Inch Attach copy of Inch CASING CEM Cu. Ft. Amount of cen	nent used (bags)	Size 636 266 bag	No. Ft. 10-5-73 10-14-73
Rock Pressure lbs	ls., 1st 24 hrs. COAL WAS I	ice Co ENCOUNTERED	AT 40	
WHIL ACIDIZED (DETAILS) Not Acidized	130 FE 595 FE	ET 60 INC	HES. 1551	PEET 24 IN SEC.
WELL FRACTURED (DETAILS) Fractured squ 390 bbls. of fluid	naw formation on 11-1	13-73 with 6	5,500 / 6t'	10/20 sand and
RESULT AFTER TREATMENT (Initial open Flow or bit ROCK PRESSURE AFTER TREATMENT. Fresh Water 518 Peet Producing Sand Squaw	570# HOURS Salt Water	.48 .1551*		om socialismos os manimismos socialismos manimismos contra econ

Formation	Color	Hard or Soft	Тор	Bottom	OH, Gas or Water	Depth	Renierka
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andy Shale			43	84	Water at 512		0
and			84	130			
oal & Slate			130	135	1		0
and			135	373	1 1	1	
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and			457	467	1 1	1	
hale			467	E117		1	84
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hale		1	547 553	595			
and		i	505	601			
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and		1	600		1		
hale	1	i	620	638			
and		1	638	672			
andy Shale	1	1 4	672	719			
and	1	1	719	758	1		
andy Shale		1	758	816			
and		1 1	816	875			
andy Shale		1 : 1	875	949			
and		Mg 1	949	1026			
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alt Sand	į		1308	1551	Hole damp at	1430"	
coal	1	}	1551	1553	Water at 155	Tt.	
hala	Ī	i i	1553	1557	9		

Formulian	Color	Hard or Soft	Top 3	Bottom	Oli, west	Depth Found	licanaras
Coal.			1557	1558	and the second	1066EN 10-1	4-73
sand & Shalo Salt Sand Shalo, Sand & Shalo & Red R	Red Rock ock		1558 1587 1773 1818	1587 1773 1818 1884		Formation P Gamma Ray Dual, Induct	neity
Sand, Shale & Sand, Maxon Shale Sand, Shale & Sand, Shale			1884 1932 1941 1971 1999	1932 1941 1971 1999 2116	•		
Iittle Iime Shalo Big Iime			2116 2137 2193	2137 2193 2422 2522		•"	
Slate & Shale Squaw Slate & Shale	1	1	2422 2522 2534	2534 2609			·
TOTAL DEPTH	1.	1	2609	•	• (
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APPROVED Comper



10000 45 00929P

WW4-A Revised 2/01

1) Date: 10/17/2013 2) Operator's Well No. 809833 P&A 3) API Well No. 47-045-00929

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 (a) Name	ner(s) to be served: Benny Ray Adkins	5) Coal Operato (a) Name	or None
	Address	411 Circle Drive	Address	Hone
		Logan, WV 25601		
			Coal Owner	s) with Declaration
	(b) Name	Ratz Resources, L.L.C.	(b) Name	Lynn Branch Coal Company, Inc.
	Address	867 Ratz Lane	Address	One Alpha Place
	71001000	Logan, WV 25601	Address	P.O. Box 16429
		Logari, III Local		Bristol, VA 24202
	(c) Name		Name	
	Address		Address	
		-	Coallesse	e with Declaration
2)	Increator	Balah Triplett	(c) Name	THE RESERVE OF THE PARTY OF THE
6)	Inspector Address	Ralph Triplett 5539 McClellan Hwy		Lynn Branch Coal Company, Inc.
	Address		Address	One Alpha Place
		Branchland, WV 25506		P.O. Box 16429
	Tolophono	304-389-0350		Bristol, VA 24202
	relephone	304-363-0330		
	Take notice th Notice and Ap Oil and Gas, V attached Appli mailed by regis	the received these documents is that you have to the reverses side. However, you are not request under Chapter 22-6 of the West Virginia Copplication and accompanying documents for a proving Vest Virginia Department of Environmental Province and depicted on the attached Form Workstered or certified mail or delivered by hand to so on or before the day of mailing or delivery to	de, the undersigned well operator permit to plug and abandon a well obtection, with respect to the well at V-6. Copies of the Notice, the App the person(s) named above (or by	proposes to file or has filed the with the Chief of the Office of the location described on the blication, and the plat have been
	mm	Well Well	Operator: Chesapeake Appal	achia Luc
	ASTER .	Official Seal Notary Public	1. Man	full
	PLAS.	State of West Virginia Its:	Operations Manage	er - Devonian District
1		Phyllis A. Copley Address	ess: P.O. Box 18496	
3		My Commission Expires	Oklahoma City, OK	73154-0496
2	·····	September 16, 2018 Telep	ohone: 405-935-4073	HESENCH
Sub	scribed and swo	orn before me this $23rd$ day of	October the year of	2013 Office of Oil and Gas
		Phillip a. (To	leil N	lotary Public
Иу (Commission Exp	pires September 10	5, 2018	OCT 252013
				WV Department of Environmental Protection



Page	of
API Number	47-045-00929
Operator's Well No.	809833 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	<u></u>
Watershed	Guya	ndotte River		Quadrangle	Loga	n, WV 7.5
Elevation	1086'	County	Logan		District	Island Creek
Description of a	nticipated Pit Waste:	Plugging Return	s/Cement			
Will a synthetic	liner be used in the pi	? Yes			20 M	L .
Proposed Dispo	Underg Reuse	oplication round Injection (UIC at API Number Disposal (Supply fo			eation)	
Proposed Work	For Which Pit Will Be Drilling Workov Swabbi X Pluggin Other (I	Used: er ng)	
issued on Dec understand the permit and/or I certify un this application for obtaining the significant pen Company Official	al (Typed Name)	ice of Oil and Gas of the nit are enforceable by la lation can lead to enforce we personally examined thereto and that, based t the information is true,	e West Virginia D w. Violations of a cement action. and am familiar v on my inquiry of t accurate, and co possibility of fine	epartment of Er any term or con with the informat those individuals omplete. I am a e or imprisonme	nvironmental F dition of the go tion submitted is immediately aware that ther ent.	Protection. I eneral on responsible
	sworn before me this		October		013	Notary Public CEIVED
My Commission	Expires Septe	mber 16, 2018	-	· •	Maria Santa	Office of Oil and Gas

Attachment #1

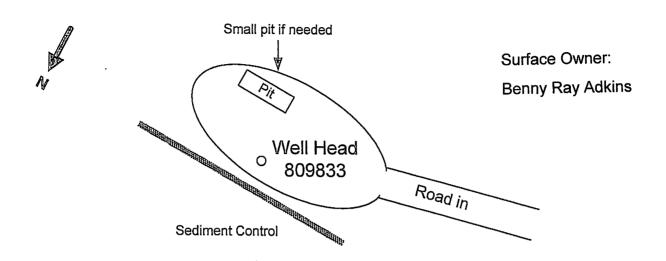
API #: 47-045-00929 Operator's Well No. 809833 P&A

1	LEGEND	
Property Boundary	Diversion Landing 111111111111111111111111111111111111	1111111
Rond = = = = = = = = =	Spring	
Existing Fence — X — X — X —	Wet Spot	
Planned Fence / / /	Drain Pipe with size in inches (3	
Stream	Waterway C+ C+C+	\Leftrightarrow
Open Ditch	Cross Drain 77/1/1/1/1/1/1/	7777
Rock 555556	Artificial Filter Strip	XXXXXX
North N	Pit: cut walls	
Buildings	Pit: compacted fill walls	
Water wells W	Area for Land Application of Pit Waste	
Drill site		
D.M. site		
Area I Seed Type Ibs/acre KY-31 40 ALSIKE CLOVER 5 ANNUAL RYE 15	N lbs/acre (500 lbs minimum)	Ibs/acre 15 5
Attach: Drawing(s) of road, location, pit and proposed area for the Photocopied section of involved 7.5' topographic sheet the Plan Approved by: Plan Approved by:		
		-
Title: <u>Vistreet Suspector</u>		
Date: Octobeh 25, 2013		

FIEDERVED GIVE

CHESAPEAKE APPALACHIA, L.L.C.

Diagram of Well 809833 for P&A
API 47-045-00929
Field Office - Branchland
County -Logan



GENERAL NOTES

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

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

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

Permanent seeding: See Attachment #1

Site Plan

RECEIVED
Office of Oil and Gas

-687 3526B

WW Desilon Spale

Environmental Protection

Prepared by: Kris Aldridge Date: 10/10/2013

Topographical Map of Access and Location 809833 for P&A API 47-045-00929 Field Office - Branchland County -Logan

