

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 08, 2014

WELL WORK PLUGGING PERMIT

Plugging

This permit, API Well Number: 47-1502748, issued to RANGE RESOURCES - PINE MOUNTAIN, INC., 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: CBM 2

Farm Name: BARRINGER, PAUL B. II

API Well Number: 47-1502748

Permit Type: Plugging Date Issued: 12/08/2014

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. <u>Failure to adhere to the specified permit conditions may result in enforcement action.</u>

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.

WW-4B Rev. 2/01

1) Date October 15	,	2014
2)Operator's Well No.CBM2		
3) API Well No.	47-015	- 0274B

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

4)	Well Type: Oil/ Gas X/ Liquid (If "Gas, Production or Und	d injection/ Waste disposal/ derground storage) Deep/ Shallow X				
5)	Location: Elevation 901'	Watershed Buffalo Creek				
	District Buffalo (County Clay Quadrangle Swandale 7.5' 629				
6)	Well Operator Address Range Resource - Pine Mountain Inc. P.O. Box 2136 Abingdon, VA 24212	7) Designated Agent Geary Legg Address 158 Big Sandy Road Newton, WV 25266				
8)	Oil and Gas Inspector to be notified Name Ed Gainer	9) Plugging Contractor Name To be determined upon permit approval				
	Address P.O. Box 821 Spencer, WV 25276	Address				
13 7": 4 1/ 2 3/ 6%	301 83 sks CTS Plug No	Received Office of Oil & Gas 0.1 14000-820 Received Office of Oil & Gas				
work		Il and gas inspector 24 hours before permitted Date 1923 14				

WW-4A Revised 6-07

Received Office of Oil & GaBate: NOV 07 2014 2) Operator's Well Number

October 13, 2014

3) API Well No.: 47 -

015

02748

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

(a) Name Address) (a) Coal Operator
Address	Allegheny Rural NMTC Forestlands, LLC	Name
Address	3001 Emerson Avenue	Address
	Parkersburg, WV 26104	_ 1.0.00
(b) Name		(b) Coal Owner(s) with Declaration
Address		Name CNX Land Resources
		Address 1000 Consol Energy Drive
		Cannonsburg, PA 15317
(c) Name		Name
Address		Address
6) Inspector	Ed Gainer	(c) Coal Lessee with Declaration
Address	PO Box 821	
Address	Spencer, WV 25276	Address
Talanhana	Spencer, WV 25276	Address
Telephone		_
However, you	are not required to take any action at all.	
Take notice t accompanyin Protection, w the Applicati certain circur	hat under Chapter 22-6 of the West Virginia (g documents for a permit to plug and abandor ith respect to the well at the location describe ion, and the plat have been mailed by registe instances) on or before the day of mailing or de	Fode, the undersigned well operator proposes to file or has filed this Notice and Application and a well with the Chief of the Office of Oil and Gas. West Virginia Department of Environmental d on the attached Application and depicted on the attached Form WW-6. Copies of this Notice, and or certified mail or delivered by hand to the person(s) named above for by publication in
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Take notice t accompanyin Protection, w the Applicati certain circur	that under Chapter 22-6 of the West Virginia Can describe to the west to plug and abandon ith respect to the well at the location describe on, and the plat have been mailed by registern materials on or before the day of mailing or describe on the day of mailing or describe on the day of mailing or describe on the day of mailing or described by the day of mailing o	Code, the undersigned well operator proposes to file or has filed this Notice and Application and a well with the Chief of the Office of Oil and Gas. West Virginia Department of Environmental don the attached Application and depicted on the attached Form WW-6. Copies of this Notice, and or certified mail or delivered by hand to the person(s) named above for by publication in elivery to the Chief. Or Range Resources - Pine Mountain, Inc. Ian Landon Agent P.O. Box 2136 Abingdon, VA 24212 (276) 628-9001
Take notice to accompanyin Protection, we the Applicate certain circum the Applicate the Application to th	that under Chapter 22-6 of the West Virginia Can describe to the west to plug and abandon ith respect to the well at the location describe on, and the plat have been mailed by registern materials on or before the day of mailing or describe on the day of mailing or describe on the day of mailing or describe on the day of mailing or described by the day of mailing o	Code, the undersigned well operator proposes to file or has filed this Notice and Application and in a well with the Chief of the Office of Oil and Gas. West Virginia Department of Environmental of on the attached Application and depicted on the attached Form WW-6. Copies of this Notice, and or certified mail or delivered by hand to the person(s) named above for by publication in elivery to the Chief. Or Range Resources - Pine Mountain, Inc. Ian Landon Agent P.O. Box 2136 Abingdon, VA 24212 (276) 628-9001
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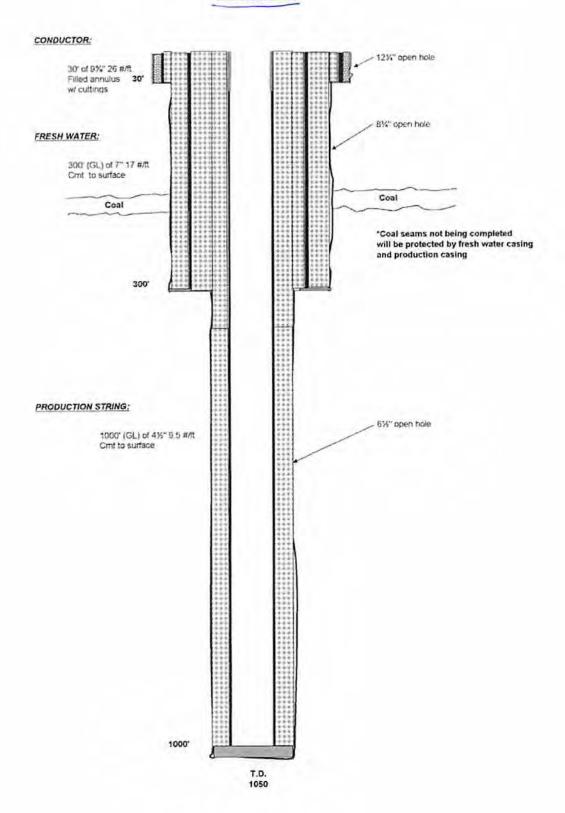
The Office of Oil and Gas processes your personal information, such as name, address and phone number, as a part of our regulatory duties. Your personal information may be disclosed to other State agencies or third parties in the normal course of business or as needed to comply with statutory or regulatory requirements, including Freedom of Information Act requests. Our office will appropriately secure your personal information. If you have any questions about our use of your personal information, please contact DEP's Chief Privacy Officer at depprivacyoffier@wv.gov.

15.02748P

PINE MOUNTAIN OIL & GAS, INC.

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PMOG CBM #2



WR-35 Rev (5-01) NE: March 2, 2007
API # 047 - 015 - 02748C

State of West Virginia Department of Environmental Protection Office of Oil and Gas

FILE COPY

ILE COPY		Well Open	ator:	s Report o	of Wel	l Work		
Farm Name:	Paul l	Paul B. Barringer II, et al			Operator Well No.		PMOG CBM 2	
LOCATION: Elevation	: <u> </u>	896'			Quadrangle:		Swandale	
District:	-	Buffalo			Coun	-	Clay	
Latitude:	14200	Feet South of	38	_ Deg.	30	Min. <u>00</u>	Sec.	
Longitude:	7325	Feet West of	80	_ Deg.	55	Min00_	Sec.	
Company: Pine Mo	untain (Oil & Gas, Inc		Casing Tubing		Used in drilling	Lest in well	Cement fill up Cu. Ft.
Address: P.O. Bo		on & Gas, the	-	13		22	22	- F
		nia 24212	-	7		301	301	83
Agent: Tom Yo	ung	114 24212	-	4 ½		1068	1068	100
Inspector: Terry U	rban		-	2 3			1021	
Date Permit Issued:		5/18/06	-	·				
Date Well Work Com	nenced:	9/27/2006	-					
Date Well Work Comp	oleted:	10/20/2006	-					
Verbal Plugging:			_					
Date Permission grant	ed on:		_					
Rotary X Cable	R	g						
Total Depth (feet):		1104	_			İ		
Fresh Water Depth (ft	.): _38	4	_	<u></u>				
· ,			_					
Salt Water Depth (ft.):			_	<u></u>			ļ	
			-					
Is coal being mined in	•	Y)? <u>N</u>	_				<u></u>	
Coal Depths (ft.):	See Log		-	L		<u></u>	<u> </u>	
OPEN FLOW DATA								
		Pennsylvar	nian (Coals	ī	Pay zone denth	310-965	(ft)
Gas: Initial ope	_			Dil: Init		-	Bbl/d	(-)
Final oper		MCF/d			-	n flow:	Bbl/d	
•					•			
	-	w between initia						
Static Rock Pre	ssure	150 Psig (s	urta	ce pressi	ire) ai	fter <u>72</u>	Hours	
Second Producin	g Format	ion:			Į	Pay zone depth	(ft)
Gas: Initial ope	n flow:	MCF/d	(Dil: Init	ial ope	en flow:	Bbl/d	
Final oper	n flow:	MCF/d		Fin	al oper	n flow:	— Bbl∕d	
Time of	open flo	w between initia	al an	d final to	ests	Hou	rs	
Static Rock Pre	-			ce pressi			Hours	
PERFORATE ETC. 2) THE	D INTE WELL I	ACK OF THIS RVALS, FRACT LOG, WHICH IS IS, INCLUDING ISTIAN D MARD	COA	ING OR YSTEMA	STIM TIC I	MULATING, I DETAILED GE	PHYSICAL CH COLOGICAL R	IANGE,

WR-35

047-015-02748C

Completion Data

	Stage 1		Stage 2		Stage 3		Stage 4		Stage 5	. # 1979 . # 1119
Date	10/20/2006		10/20/2006		10/20/2006		10/20/2006		10/20/2006	
	75Q N2		75Q N2		75Q N2		75Q N2		75Q N2	
Frac	Foam		Foam		Foam		Foam		Foam	
Formation(s)	Lower Sewell		Mid Sewell		X-Seam		Lower War Ck		Little Eagle	
			X-Seam		X-Seam		Eagle		Eagle	
interval	961-965		869.5-891		605-694		531.5-536		310-438	
# of Perf	12		32		16		14		33	
BD Press	2800	psi	3752	psi	3300	psi	3672	psi	2079	psi
Avg Treating										
Press	3000	psi	2995	psi	2828	psi	2375	psi	1590	psi
Max Treating		-		-						
Press	4286	psi	3752	psi	3716	psi	3689	psi	2079	psi
		bp		bp		bp		bp		bp
Avg Rate (dh)	24.5	m	29.3	m	24.9	m	33	m	34.9	m
ISIP		psi	1859	psi	2860	psi	1177	psi		psi
5 min SIP		psi	1586	psi	1186	psi	879	psi		psi
Total Acid	50/15%HCI	gal	250/15%HCI	gal	500/15%HCI	gal	250/15%HCI	gal	250/15%HCI	gal
Total N2	170,500	scf	413,000	scf	254,000	scf	246,000	scf	312	scf
Total H2O	82	ьы	175	ьы	133	ьы	129	bbi	200	bbl
Total Sand	83	SX	333	SX	120	SX	163	sx	268	sx

Geologic Data

Formation	Top (ft)	Bottom (ft)	Formation	Top (ft)	Bottom (ft)
Overburden	0	23	Sand and Shale	1020	1050
Sand and Shale	23	310	Sand	1050	1110
Coal	310	312			
Sand and Shale	312	395			
Coal	395	396.5			
Sand and Shale	396.5	412			
Coal	412	413			
Sand and Shale	413	438			
Coal	438	439.5			
Sand and Shale	439.5	532			
Coal	532	535			
Sand and Shale	535	604			
Coal	604	605			
Sand and Shale	605	666			
Coal	666	667			
Sand and Shale	667	694			
Coal	694	695			
Sand and Shale	695	870			
Coal	870	874			
Sand and Shale	874	888			
Coal	888	890.5			
Sand and Shale	890.5	962			
Coal	962	964			
Sand and Shale	964	990			<u> </u>
Sand	990	1020			L

02748

WW-4A Revised 6-07

1) Date:	October 13, 2014	
2) Operator	r's Well Number	
CBM 2		

015

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

3) API Well No.: 47 -

4)	The second secon	ner(s) to be served:		5) (a) Coal Operator	
	(a) Name	Allegheny Rural NMTC Forestlar	nds, LLC	Name	
	Address	3001 Emerson Avenue	/	Address	
		Parkersburg, WV 26104			
	(b) Name			(b) Coal Own	ner(s) with Declaration
	Address			Name	CNX Land Resources
				Address	1000 Consol Energy Drive
					Cannonsburg, PA 15317
	(c) Name			Name	
	Address			Address	
6) 1	Inspector	Ed Gainer		(c) Coal Less	see with Declaration
	Address	PO Box 821		Name	
		Spencer, WV 25276		Address	
Y	Telephone				

TO THE PERSONS NAMED ABOVE: You should have received this Form and the following documents:

- (1) The application to Plug and Abandon a Well on Form WW-4B, which sets out the parties involved in the work and describes the well its and the plugging work order; and
- (2) The plat (surveyor's map) showing the well location on Form WW-6.

The reason you received these documents is that you have rights regarding the application which are summarized in the instructions on the reverses side. However, you are not required to take any action at all.

Take notice that under Chapter 22-6 of the West Virginia Code, the undersigned well operator proposes to file or has filed this Notice and Application and accompanying documents for a permit to plug and abandon a well with the Chief of the Office of Oil and Gas, West Virginia Department of Environmental Protection, with respect to the well at the location described on the attached Application and depicted on the attached Form WW-6. Copies of this Notice, the Application, and the plat have been mailed by registered or certified mail or delivered by hand to the person(s) named above (or by publication in certain circumstances) on or before the day of mailing or delivery to the Chief.

NOTARY PUBLIC	Well Operator	Range Resources - Pine Mountain, Inc.	Received
NOTARY PUBLIC	By:	lan Landon Lan Lando	Office of Oil & G
= 4 : REG #7040 : 3 =	Its:	Agent	~~~
MY COMMISSION	Address	P.O. Box 2136	UCI 3 1 2014
EXPIRES TE		Abingdon, VA 24212	
Tray zole	Telephone	(276) 628-9001	
EALTH OF VIRGINIA	61	A)	,
Subscribed and sworn before me	this 28 di	ny of OCTOBER 2014 Notary Public	
Kimbell	EjAllesonelle	Notary Public	
My Commission Expires 3/	MAY 2018	KFT #	7040059

Oil and Gas Privacy Notice

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



The following information was included in the certified mailing to Allegheny Rural NMTC Forestlands:

Well Nos. ERC&L 8129

ERC&L 7977

ERC&L 8130

ERC&L 7976

PMOG 32

PMOG 23A CBM 7

CBM 2

Received Office of Oil & Gas

OCT 3 1 2014

- -Notice of Application to Plug and Abandon a Well (WW-4A)
- -Application for a Permit to Plug and Abandon (WW-4B)
- -Construction and Reclamation Plan and Site Registration Application Form General Permit for Oil and Gas Pit Waste Discharge (WW-9)
- -Legend (WW-9)
- -Surface Owner Waiver
- -WVDEP Office of Oil and Gas Well Location Form: GPS (WW-7)
- -Location Map



The following information was included in the certified mailing to CNX Land Resources:

Well Nos. ERC&L 8129

ERC&L 7977

ERC&L 8130

ERC&L 7976

PMOG 32

PMOG 23A

CBM 7

CBM 2

Received Office of Oil & Gas

OCT 3 1 2014

- -Notice of Application to Plug and Abandon a Well (WW-4A)
- -Application for a Permit to Plug and Abandon (WW-4B)
- -Construction and Reclamation Plan and Site Registration Application Form General Permit for Oil and Gas Pit Waste Discharge (WW-9)
- -Legend (WW-9)
- -Coal Operators Owners and Lessee Waiver (WW-4B)
- -WVDEP Office of Oil and Gas Well Location Form: GPS (WW-7)
- -Location Map
- -Well Record/Well Report

WW-9 Rev. 5/08

	age	of	
API Number 47 -	015	02748	
Operator's Well No			

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

Range F	esources - Pine Mo	ountain, Inc.	OF	Code 307499	
			angle Swan		
Vatershed Buffalo Cree	N				
Elevation 901'	County	Clay		District -	
Description of anticipated	Pit Waste: Fluids en	countered while	plugging :	subject well	
Will a synthetic liner be us		20 m.			
Proposed Disposal Metho					
V	I and Application)
-	Underground Injection Reuse (at API Number	(UIC Permit Number)
-	Off Site Dispposal (Su	oply form WW-9 for d	isposal locati	on)	6
_	Other (Explain	6.2			Received
					Office of Oil & Gas
Proposed Work For Which	h Pit Will Be Used:		Swabbing		OCT 3 1 2014
	Drilling	×	Plugging		001 0 1 2014
	Workover Other (Explain				
				www.ren nou	LETION DEDMIT issued
on August 1, 2005, by th provisions of the permit law or regulation can lea I certify under	are enforceable by law. d to enforcement action. penalty of law that I ha l attachments thereto a on, I believe that the in false information, includ	Violations of any ter ave personally examined that, based on my formation is true, accing the possibility of fi	m or condition med and am f inquiry of urate, and co	amiliar with the infor those individuals im- implete. I am aware	LUTION PERMIT issued ion. I understand that the it and/or other applicable mation submitted on this nediately responsible for that there are significant

CBM 2

LEGEND			
Property Boundary	Diversion (422/11/21/11/11/11/11/11/11/11/11/11/11/1		
Road = = = = = = = = = = = = = = = = = = =	Spring -		
Existing Fence — X — X — X —	Wet Spot		
Planned Fence / / /	Drain Pipe with size in inches (3)		
Stream	Waterway \longleftrightarrow \longleftrightarrow \longleftrightarrow		
Open Ditch	Cross Drain		
Rock ESSE	Artificial Filter Strip		
North N	Pit: cut walls		
Buildings	Pit: compacted fill walls		
Water wells	Area for Land Application of Pit Waste		
Drill site			
Mulch Straw 2 Tons/acr	6.5 cre (500 lbs minimum)		
Attach: Drawing(s) of road, location,pit and proposed area for land applic Photocopied section of involved 7.5' topographic sheet. Plan Approved by: Comments:	Office of Oil & Gas OCT 31 2014		
Title: 1 - pector Field Reviewed? () Yes (X	Date: 10/2 14		

Topo Quad: Swandale 7.5' Scale: 1 " = 2000' Clay County: Date: June 26, 2014 District: Buffalo Project No: 170-04-B-14 Торо API # 47-015-02748 (CBM 2) Swandale F B 47-015-02748 CBM 2 CREEK Bone Received Office of Oil & Gas NAD 27, WV South Zone N: 531,973.75 OCT 31 2014 E: 2,016,509.99 ELEV: 900.99 WGS 84 LAT: 38.461032 LONG: -80.942167 PREPARED FOR: SURVEYING AND MAPPING SERVICES PERFORMED BY: ALLEGHENY SURVEYS, INC. Range Resources - Pine Mountain, Inc. 1-800-482-8606 237 Birch River Road Birch River, WV 26610 PH: (304) 649-8606 FAX: (304) 649-8608 406 West Main Street Abingdon, VA 24210

WW-7 8-30-06



West Virginia Department of Environmental Protection Office of Oil and Gas WELL LOCATION FORM: GPS

ADI. 47.015.02749	WELL NO . CDM2		
API: 47-015-02748	WELL NO.: CBM 2		
FARM NAME: Paul B. Barr	ringer II	<u> </u>	
RESPONSIBLE PARTY NAM	IE: Range Resources - Pine	Mountain, Inc.	
COUNTY: Clay	, DISTRICT: Buffa	ilo .	
QUADRANGLE: Swandale	7.5'		
SURFACE OWNER: Allegh	eny Rural NMTC Forestlands, I	LLC ,	
ROYALTY OWNER: Range	Resources - Pine Mountain, In	ıc. <u>.</u>	
UTM GPS NORTHING: 42	256971 .		
UTM GPS EASTING: 50	. GPS ELEVATI	ION: 274 m (901 ft) .	
	at for a plugging permit or assignd Gas will not accept GPS coor Zone: 17 North, Coordinate Uni	gned API number on the rdinates that do not meet its: meters, Altitude:	
height above mean se 2. Accuracy to Datum –	ea level (MSL) – meters.	Office of Oil &	
Data Collection Meth	nod:	Office of Oil &	Gas
	st Processed Differential al-Time Differential	OCT 3 1 2014	
	Post Processed Differential Real-Time Differential	<u>X</u>	
 Letter size copy of t 	he topography map showing t		
I the undersigned, hereby certify belief and shows all the informa			
prescribed by the Office of Oil a		guiations issued and	
at all	0-4		
May Opm	PS = 2180	7/16/14	
Signature	Title	Date	