

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: 47-1502616, 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: PG 32

Farm Name: BARRINGER, PAUL II - TRST

API Well Number: 47-1502616 Permit Type: Plugging

Date Issued: 12/08/2014

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. <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. PMOG 32	
3) API Well No. 47-015	+ 02616

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

5)	Location: Elevation 1056'		Watershed Flat For	rk Creek	
	District Buffalo		County Clay	Quadrangle Strange Creek 7.5'	
6)	Well Operator Range Resource - Pine M	Mountain Inc.	7) Designated Age	ent Geary Legg	
Address P.O. Box 2136			Address 158 Big Sandy Road		
	Abingdon, VA 24212	2		Newton, WV 25266	
8)	Oil and Gas Inspector to be not	ified			
	Name Ed Gainer		Name To be	determined upon permit approval	
	Address P.O. Box 821		Address_		
	Spencer, WV 25276		-		
Ca 16' 9 5	Work Order: The work order for sing: TD - 2029' 32 8" 354 175 sks CTS	GEL BEL Plug No.	ەن ئ ^ې 4دەد. 1 1950-1750		
Ca: 16" 9 5, 4 1, 2 3,	sing: TD - 2029' 32 '8" 354 175 sks CTS '2" 1998 195 sks, est TOC @ 1000' '8" 1915	GEL BEL Plug No. Free poin Plug No.	1 1950-1750 t, cut & pull 4 ¹ / ₂ " es 2 1050-950 3 400-300		
Ca: 16" 9 5/ 4 1/ 2 3/	sing: TD - 2029' 32 '8" 354 175 sks CTS '2" 1998 195 sks, est TOC @ 1000' '8" 1915 gel between cement plugs	Plug No. Free poin Plug No. Plug No. Plug No. Plug No.	1 1950-1750 t, cut & pull 4 ½" es 2 1050-950 3 400-300 4 100-0	st 1000'	
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12/12/14

State of West Virginia Division of Environmental Protection Section of Oil and Gas

Well Operator's Report of Well Work

Farm name:	Barringer, Paul B. II Trust	Operator Well No.: PMOG 32
LOCATION:	Elevation: 1056.13	Ouadrangle: Strange Creek 7.5'

District: Buffalo County: Clay
Latitude: 12,400 Feet South of 38 Deg. 32 Min. 30 Sec.
Longitude: 11,900 Feet West of 80 Deg. 55 Min. 0 Sec.

Company: PINE MOUNTAIN OIL AND GAS

448 NE Main St., P. O. Box 5100

Lebanon, VA 24266-0000

Agent: CHRISTOPHER A. FARMER

Inspector: RICHARD CAMPBELL

Permit Issued: 5/24/2000

Well Work Commenced: 5/31/2000 Well Work Completed: 11/3/2000

Verbal Plugging Permission Granted on:

Rotary X Cable Rig Total Depth (feet): 2029 kb

Fresh Water Depths (feet): 22, 130 kb

Salt Water Depths (feet):

Is coal being mined in area? (Y/N) N Coal Depths (feet): 62, 200, 280 kb

Casing & Tubing	Used in Drilling	Left In Well	Cement Fill Up Cu.Ft.
16	32		
9-5/8	354	354	175 sk
4-1/2		1998	195 sk
2-3/8		1915	

OPEN FLOW DATA

							19	29-31 KD
	Produ	ction Formation _	Big Injun	/Big Lime		Pay zone depth (ft)18	01-88 kb
	Gas:	Initial open flow		MCF/d	Oil:	Initial open flow _		_Bbl/d
						Final open flow _		_Bbl/d
						ts		
	Static					ce pressure) after		
	Secor	nd Producing Form	nation			Pay zone depth (ft	.)(
						Initial open flow _	2	Bbl/d
						Final open flow _		
						ts		
	Static					ce pressure) after		
NOTE:	01	N BACK OF T	HIS FOR	M PUT T	HE FO	OLLOWING: 1).	DETA	ILS OF

NOTE: ON BACK OF THIS FORM PUT THE FOLLOWING: 1). DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2). THE WELL LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGIAL RECORD OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELBORE.

Received For: PINE MOUNTAIN OIL AND GAS, INC.

Office of Oil & Gas

OCT 3 1 2014

By: _____ Date: _____

12/12/14

Completion

1st Stage: Perf 1929 -1937 kb 17h

Frac Big Injun w/251 bbl 25# gel x-link, BD @ 1000# w/500 gal 15% HCl Avg Rate - 21 bpm, Avg Press - 800#, Max Press - 1050#, Avg N2 - 3000 scfm

Total N2 - 60,500 scf, Total 20/40 sand - 33,500#

ISIP - 250#

2nd Stage: Perf 1801 - 1803 kb 3h, 1879 - 1881 kb 3h, 1884 - 1888 kb 5h

Acidize Big Lime w/60 bbl 28% HCl, BD @ 800# w/500 gal 15% HCl

Avg Rate - 13 bpm, Avg Press - 1800#, Max Press - 3100#, Avg N2 - 3500 scfm,

Total N2 - 55,000 scf

ISIP - 1100#

Well Log

Formation	Top (ft)*	Bottom (ft)*
Sand and Shale	0	62
Coal	62	65
Sand and Shale	65	200
Coal	200	205
Sand and Shale	205	280
Coal	280	285
Sand and Shale	285	1030
Salt Sand	1030	1111
Sand and Shale	1111	1342
Upper Maxon	1342	1390
Shale	1390	1459
Middle Maxon	1459	1511
Shale	1511	1540
Lower Maxon	1540	1659
Little Lime	1659	1702
Blue Monday	1702	1711
Shale	1711	1740
Big Lime	1740	1943
Shale	1943	2029
TD	2029	

^{*} Depths 10 ft KB

Received Office of Oil & Gas

OCT 3 1 2014

Received Office of Oil & Gas

WW-4A Revised 6-07

OCT 3 1 2014

\$100 00 379

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

3) API Well No.: 47 -

PMOG 32

015 - 02616

STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS NOTICE 0F APPLICATION TO PLUG AND ABANDON A WELL

4)	Surface Ow (a) Name	ner(s) to be served: Allegheny Rural NMTC Forestlands, LL	5) (a) Coal Operator Name	
	Address	3001 Emerson Avenue	Address	
		Parkersburg, WV 26104	410.10	7.5 2.1 B 1 2.2
	(b) Name			mer(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 Les	see with Declaration
	Address	PO Box 821	Name	
		Spencer, WV 25276	Address	
	Telephone			

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

- 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.

Well Operator Range Resources - Pine Mountain, Inc.

NOTARY By: Ian Landon
PUBLIC Its: Agent
Address P.O. Box 2136
Abingdon, VA 24212

Subscribed and sworn before me this 28 day of OCTOBER 2014

Notary Public My Commission Expires 31 May 2018

My Commission Expires 31 May 2018

Well Operator Range Resources - Pine Mountain, Inc.

Ian Landon
P.O. Box 2136
Address Pine Mountain, Inc.

Ian Landon
P.O. Box 2136
Address Pine Mountain, Inc.

Agent
P.O. Box 2136
Abingdon, VA 24212

(276) 628-9001

Notary Public REG # 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:

Received

Office of Oil & Gas

DCT 3 1 2014

Well Nos. ERC&L 8129

ERC&L 7977

ERC&L 8130

ERC&L 7976

PMOG 32

PMOG 23A

CBM 7

CBM 2

-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

	Page		of	
API Number 47 -	015		02616	
Operator's Well No	. PMOG 3	2		

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

w attribute	Flat Fork Creek		Quadrangle S	Strange Creek 7.5'	
		County Clay	_ <	District Buffalo	
Elevation	1030		or peak to the		
Description	on of anticipated Pit W	aste: Fluids encountere	d while pluggi	ing subject well	
Vill a syr	thetic liner be used in	the pit? Yes 20 ML.			
roposed	Disposal Method For				
		Application erground Injection (UIC Permi	it Number		1
		e (at API Number	it ivanioei_)
		Site Dispposal (Supply form W	W-9 for disposal le	ocation)	-
		r (Explain	visi and some to		
Proposed	Work For Which Pit	Will Be Used:			
A 15 300 10	Drill	ing	Swabbin		
	Worl		X Plugging	3	
	Othe	r (Explain			
application	on form and all attac the information, I b for submitting false in	forcement action. y of law that I have personall thments thereto and that, base elieve that the information is aformation, including the possil	ed on my inquiry true, accurate, and	of those individuals in discomplete. I am awa	mmediately responsible
Company	Official Signature Official (Typed Nan	lan Landon	<u></u>		OCT 3 1 2014
Company	Official (Typed Nan	lan Landon gent	<u></u>		OCT 3 1 2014
Company Company Company Subscrib	Official (Typed Name of Official Title AC)	this 28 41 day of something Allison Electrics		Notory Public	WALER ALL

Operator's Well No. PMOG 32

		L	EGEND				
Property Boundary			Diversion 4	4:444:1		Ш	
Road = = = = = =	=====		Spring (→			
Existing Fence — X —	- × × 		Wet Spot				
Planned Fence /	_/_ /_		Drain Pipe v	with size in inc	:hes (3	-	
Stream		e e e	Waterway	\longleftrightarrow \in	$\rightarrow \hookrightarrow \hookrightarrow \leftarrow$	•	
Open Ditch Rock #85886 North N Buildings			Cross Drain	7111			
			Artificial Fi	ilter Strip 💢		20C	
			Pit: cut wal	ls	3		
			Pit: compac	ted fill walls	WILL.		
Water wells W			Area for La	nd Application	n of Pit Waste		
Drill site				•			
				,			
Proposed Revegetation Treatm	ent: Acres Disturbed	.5 A	cres	Prevegetati	on pH		
			6.5			•	
Lime2	Tons/acre or to corre	ect to pH	0.0				
Fertilizer (10-20-20 o	r equivalent) 5	$00_{lbs/a}$	cre (500 lbs m	inimum)			
Straw	2		·	,			
Mulch		Tons/ac	re				
		Seed	Mixtures				
Arca	ıI				Area II		
Seed Type	lbs/acre			Seed Type	lbs/acre		
Tall Fescue	40		Tall Fe	escue	40		
Ladino Clover	5		Ladino	Clover	5		
		_					
Attach: Drawing(s) of road, location,p	it and proposed area for	r land appli	cation.		Received Office of Oil &		
Photocopied section of involve	ed 7.5' topographic shee	et.			DCT 3 1 201 4	ı	
				_	()()1 0 1 201		
)		•	
Plan Approved by:		5				-	
Comments:							
			-			•	
						•	
Title:	pector		Date:	10/2/	14 _		
Field Reviewed?	Yes		_) No				

Strange Creek 7.5' Topo Quad: 1 " = 2000' Scale: Clay County: Date: June 26, 2014 District: Buffalo Project No: 170-04-B-14 Торо API # 47-015-02616 (PMOG 32) Brass Knob Campresser Sto GasWell Weil Gas Well Gas Well Lan Gas Well Harrison Y BM 1084 Flat Fork 47-015-02616 **PMOG 32** Strange Creek 7.5' Quadrangle Strange Creek 7.5' Quadrangle Swandale 7,5' Quadrangle Swandale 7.5' Quadrangle Received NAD 27, WV South Zone Office of Oil & Gas N: 548,970.69 E: 2,012,008.96 OCT 3 1 2014 ELEV: 1,086.53 Big **WGS 84** LAT: 38.507711 LONG: -80.957860 PREPARED FOR: SURVEYING AND MAPPING SERVICES PERFORMED BY: ALLEGHENY SURVEYS, INC. Range Resources - Pine Mountain, Inc. 1-800-482-8606 237 Birch River Road 406 West Main Street Abingdon, VA 24210 Birch River, WV 26610 PH: (304) 649-8606 FAX: (304) 649-8608

WW-7 8-30-06



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

API: 47-015-02616 WELL NO.: PMOG 32	
FARM NAME: Paul Barringer II - Trust	
RESPONSIBLE PARTY NAME:Range Resources - 1	Pine Mountain, Inc.
COUNTY: Clay DISTRICT: B	uffalo
QUADRANGLE: Strange Creek 7.5'	
SURFACE OWNER: Allegheny Rural NMTC Forestland	ds, LLC
ROYALTY OWNER: Range Resources - Pine Mountain	n, Inc.
UTM GPS NORTHING: 4262150	
UTM GPS EASTING: 503674 GPS ELEVA	ATION: 322 m (1056 ft) .
The Responsible Party named above has chosen to submit G preparing a new well location plat for a plugging permit or a above well. The Office of Oil and Gas will not accept GPS of the following requirements: 1. Datum: NAD 1983, Zone: 17 North, Coordinate height above mean sea level (MSL) – meters. 2. Accuracy to Datum – 3.05 meters 3. Data Collection Method: Survey grade GPS: Post Processed Differential	Units: meters, Altitude: Office Silved Office Silved I & Gas I 2014 X Ing the well location. est of my knowledge and
Signature PS# 2180 Title	7/16/14 Date