WR-35 Rev (5-01) DATE: October 30, 2006
API # 047 - 015 - 02622F

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

Well Operator's Report of Well Work

Farm Name: _	arm Name: Paul B. Barringer II, et al				Operator Well No.		PMOG 23A	
LOCATION: Elevation: 1243					Quadrangle:		Swandale	
Distri	ict:	Buffalo			Coun	ity:	Clay	
Latitu	nde: 1675	Feet South of	38	Deg.	•		Sec.	
Long	itude: 100	Feet West of	80	_			Sec.	
	Range Resources Jountain Inc	s - Pine		Casing Tubing		Used in drilling	Left in well	Cement fill up Cu. Ft.
Address: P	O. Box 2136		_	11	3⁄4	30		
	Abingdon, Virgi	nia 24212	_	8 5	/8	487	487	CTS
Agent: C	Geary Legg	· · · · · · · · · · · · · · · · · · ·		4 1	4	2044	2044	140 sx
_	Cerry Urban			2 3	%		1881	
Date Permit Iss	ued:	8/31/2005	_					
Date Well Worl	•	1/12/2006	_					
Date Well Worl	-	3/08/2006	_				A 101 10 10 10 10 10 10 10 10 10 10 10 10	
Verbal Plugging			_				CEIVED	
Date Permission			_			Office	of Oil ? G	as
Rotary X						O mo		
Total Depth (fe	· —	2255				<u> </u>	1 5 2013	
Fresh Water Do	epth (ft.): <u>25</u>	, 51	_			1 ,,,	1	
			_					of
Salt Water Dep	th (ft.): 12	25	_	<u> </u>		MV D	epartmen	. 01
			_	<u> </u>		Environn	ental Pro	ection
_	ined in area (N/	Y)? <u>N</u>	_			1		
Coal Depths (ft	.): <u>N/A</u>		_	<u> </u>		L	<u> </u>	I,
OPEN FLOW	DATA Formation:	Rio	Lim	Δ		Pay zone dep	th 1960-2021	(ft)
	itial open flow:	MCF			nitial	_ ray zone dep open flow:	Bbl/d	(11)
	-							
	nal open flow:	Trace MCF				pen flow:	Bbl/d	
Time of open flow between initial and final tests Hours								
Static Rock Pressure 150 Psig (surface pressure) after Hours								
Second P	roducing Format	ion:]	Pay zone depth		(ft)
Gas: In	itial open flow:	MCF/d	(Dil: Ini	tial op	en flow:	Bbl/d	-
	inal open flow:	MCF/d	l	Fir	al ope	n flow:	Bbl/d	
	-	w between initi			-	Hou		
	ock Pressure			ce press			Hours	
Static N	ock Flessure	1 sig (s	sulla	ce press	uic) a		110415	
NOTE: ON THE 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 GEOLOGICAL RECORD OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE.								
Signed: Range Resources - Pine Mountain Toc. By: Aug Mun Date: 4-11-18								
Date: 4-11-13								

WR-35 047-015-02622F

Screened Out

Completion Data

	Stage 1		Stage 2		
Date	1/12/2006		2/16/2006		
Frac Formation(s)	Big Lime		Blg Lime		
interval # of Perf	2016-2021 11		1960-2018 12		
BD Press	0	psi	2789	psi	
Avg Treating Press	1925	psi	2595	psi	
Max Treating Press Avg Rate (dh) ISIP 5 min SIP	2705 19.6 2280 1877	psi bpm psi psi	4114 14	psi bpm psi psi	
Total Acid Total N2 Total H2O Total Sand	100/15%HCI 273800 159 450	gal scf bbl sx	36/15%HCI 76500 77 44	gal scf bbl sx	

Geologic Data

Formation	Top (ft)*	Bottom (ft)*	
Shale and Sand	0	1163	
Salt Sand	1163	1347	
Shale and Sand	1347	1434	
Upper Maxon	1434	1447	
Shale and Sand	1447	1598	
Middle Maxon	1598	1652	
Shale and Sand	1652	1734	
Lower Maxon	1734	1770	
Shale	1770	1814	
Little Lime	1814	1854	
Shale	1854	1868	
Blue Monday	1868	1913	
Big Lime	1913	2120	
Shale	2120	2255	
TD	2255		

^{*} Depths 10 ft KB

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APR 1 5 2013

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