WR-35 Rev (5-01) DATE: October 30, 2006 API # 047 - 015 - 02709

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

Well Operator's Report of Well Work

	•	•				
Farm Name:	Paul B. Barringer II, et al	Operato	or Well No.	PMOG	PMOG 59	
LOCATION: Elevation	: 1428	Quadra	Quadrangle:		Swandale	
District:	Buffalo	County	:	Clay		
Latitude:	14285 Feet South of 38	Deg. 30 N	Min. 00 S	ec.		
Longitude	11595 Feet West of 80	Deg52_ N	viii <u>30</u> S	ec.		
		Casing &	Used in	Left in well	Cement fill	
Company: Range R	esources - Pine Mountain, Inc.	Tubing	drilling	Delt M Wen	up Cu. Ft.	
Address: P.O. Bo		13 3/8	32	32	1 -7	
	on, Virginia 24212	9 5/8	485	485	196	
Agent: Geary I		7	2050	2050	151	
Inspector: Terry U		4 1/2	2030	3654	391	
Date Permit Issued:	4/1/2004	21/2"		2097	 	
Date Well Work Com						
Date Well Work Com			 	+	 	
Verbal Plugging:						
Date Permission gran	ted on:		<u> </u>			
Rotary x Cable			 	RE	CEIVED	
Total Depth (feet):	 387 5			Office (of Oil & Gas	
Fresh Water Depth (f	(t.): 40					
				APR	1 1 2013	
Salt Water Depth (ft.): 990		<u> </u>		1 2010	
•				140/10-		
Is coal being mined in	area (N/Y)? N		1	- 3	partment of	
Coal Depths (ft.):	***************************************			Environme	ental Protection	
OPEN FLOW DAT		_				
Producing Forn			y zone depth	2105-3065	(ft)	
Gas: Initial o	pen flow: MCF/d	Oil: Initial open	flow:	_ Bbl/d		
Final op	en flow: 146 MCF/d	Final open	flow:	Bbl/d		
Time of	f open flow between initial a	nd final tests	4 Hou	rs		
Static Rock Pr	ressure 175 psig (surfa	ice pressure) afte	er 24 I	Hours		
		-				
Second Produci			y zone depth	(ft)		
Gas: Initial o	pen flow: MCF/d	Oil: Initial open	flow:	Bbl/d		
Final op	en flow: MCF/d	Final open	flow:	Bbl/d		
Time of	f open flow between initial a	nd final tests	Hou	 rs		
Static Rock Pr	-	ace pressure) after	er I	Hours		
	1-0	•				
	THE BACK OF THIS FO					
	ED INTERVALS, FRACTUR					
	E WELL LOG, WHICH IS A S				CORD	
OF ALL FO	RMATIONS, INCLUDING CO	AL ENCOUNTE	RED BY THE	WELLBORE.		
Signade	Range Resources	Di. 44-		_		
Signed: By:	nange nesources	- Fine Moi	untain Ti	ne.		
· ·	Jame 4 June	<u> </u>		-		
Date:	4/11/13					

Completion Data

	Stage 1		Stage 2		Stage 3	
Date	7/28/2005		7/28/2005		8/3/2005	
	75Q N2		75Q N2		75Q N2	
Frac	Foam		Foam		Foam	
Formation(s)	Dev Sand		Big Lime		Big Lime	
Interval	3065-3409		1950-2007		2048-2105	
# of Perf	20		20		18	
BD Press	2014	psi	3050	psi	?	psi
Avg Treating Press	1624	psi	2500	psi	2650	psi
Max Treating Press	1725	psi	3200	psi	2898	psi
_		bp		bp		bp
Avg Rate (dh)	32.3	m	30	m	27	m
isiP	1250	psi	1900	psi	1650	psi
5 min SiP		psi		psi		psi
Total Acid	500	gal	756	gal	935	gal
Total N2	323	scf	158	scf	158	scf
Total H2O	202	bbl	199	bbl	168	ЬЫ
Total Sand	499	SX	253	SX	217	SX

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Geologic Data

				hicknes
Lithology	Color	Top E	Bottom s	
SANDY SHALE		0	5	5
CLAY	BROWN	5	11	6
SANDSTONE		11	130	119
COAL		130	135	5
SANDY SHALE		135	160	25
COAL		160	168	8
SANDSTONE		168	205	37
SANDY SHALE		205	300	95
SANDSTONE		300	370	70
SANDY SHALE		370	411	41
SANDSTONE		411	571	160
SANDY SHALE		571	850	279
COAL		850	880	30
SANDY SHALE		880	1120	240
COAL		1120	1136	16
SANDSTONE		1136	1214	78
SANDY SHALE		1214	1298	84
COAL		1298	1301	3
SANDY SHALE		1301	1393	92
SANDSTONE		1393	1461	68
SANDY SHALE		1461	1602	141
SANDSTONE		1602	1668	66
SANDY SHALE		1668	1682	14
SHALE		1682	1700	18
SANDY SHALE		1700	1775	75
SANDSTONE		1775	1805	30
SANDSTONE		1805	1815	10
SANDY SHALE		1815	1869	54
LIMESTONE		1869	1895	26
SANDY SHALE		1895	1906	11
LIMESTONE		1906	1917	11
SHALE		1917	1955	38
LIMESTONE		1955	2160	205
SHALE & SANDY SI	HALE	2160	2210	50
SANDY SHALE		2210	2429	219
SHALE		2429	2912	483
SANDY SHALE		2912	3200	288
SHALE		3200	3266	66
SANDSTONE		3266	3390	124
SANDY SHALE		3390		

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