WR-35 Rev (5-01) DATE: <u>December 10, 2010</u>
API # <u>047</u> - <u>015</u> - <u>2588R</u>

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

Well Operator's Report of Well Work

arm Name:	<u> </u>	Paul E	B. Barringer, II Tru	st	Ope	erator Well No.	PMC	OG 14
LOCATION: Elevation:			1395.15			drangle:	Swandale	
	District:		Buffalo		Cou	inty:	Clay	
L	atitude:	6875	Feet South of	38	Deg. 30	Min. 00	Sec.	
L	ongitude:	1725	Feet West of	80	Deg. 55	Min. 0	Sec.	
0	D D		Dina Man Inc		Casing & Tubing	Used in drilling	Left in well	Cement fil up Cu. Ft.
Company: Address:	Range Ressources-Pine Mtn. Inc. P.O. Box 2136			-	11%	12		up Cu. Ft.
Auui ess.			nia 24212	-	85/5	443	443	125 sx
Agent:			IIIA 27212	-	41/2	1773	2081	180 sx
Agent: Geary Legg Inspector:			<u> </u>	-	21/4		2040	100 31
Date Permi	t Issued:	•		-				
Date Well V	-	menced:	Nov 30, 2007	-				
Date Well V	Vork Comp	pleted:	Dec 1, 2007					
Verbal Plugging:						PECI	IVED	
Date Permi				-		NEO!	Oil & Gas	
Rotary		R	ig			Office Of	Dir ox Case	
Total Dept			2307 kb	-		1110 6	2 2 2013	
Fresh Wate	ı nebtu (10	.): <u>5(</u>) kb	-		AUIL	2 2010	
Salt Water	Depth (ft.):	1:	740 kb	- ¦		+	Langet O'	<u> </u>
	[(***)*			-		WA Deb	artment o	tion
Is coal being	g mined in	area (N/	Y)? N	_	F	nvironme	ntal Protec	;ti∪i i
Coal Depth	s (ft.):	·		_				
OPERTE	OW D + T +							
	OW DATA	_	Big L	ime		Pay zone depth	2225-2079	(A)
	Initial ope	_				ray zone deput pen flow:	Bbl/d	_ (ft)
Gas:	Final ope		N/A MCF/d			en flow:	Bbl/d	
	•				•			,
04 <u>-</u> 42		-	w between initia					
Stati	c Rock Pre	ssure	Psig (st	штас	æ pressure)	after 12	Hours	
Secon	nd Producin	ng Forma	tion:			Pay zone depth	ì	(ft)
Gas:	Initial ope	en flow:	MCF/d	-	il: Initial o	•	Bbl/d	- ' '
	Final ope		MCF/d			en flow:	Bbl/d	
	-		w between initia	ıl an	•			
Stati	c Rock Pre	•			ce pressure)		Hours	
NC PE ET	OTE: ON RFORATE C. 2) THE	THE B. D INTE	ACK OF THIS ERVALS, FRACT LOG, WHICH IS NS, INCLUDING	FOI URI A S	RM PUT TH NG OR STI YSTEMATIC	HE FOLLOWI MULATING, DETAILED G	NG: 1) DETAI PHYSICAL CH EOLOGICAL RI	IANGE,
3.		Signe	·					
		•	y: 1/2 /	10	2			
		Da	Guna	Y /_	رجس			
		Da	te: 8/22/13	<u> </u>		····		

Completion Data

Well Log

Formation	Top (ft)*	Bottom (ft)*
Sand and Shale	0	1269
Salt Sand	1269	1314
Shale	1314	1382
Salt Sand	1382	1422
Shale	1422	1506
Upper Maxon	1506	1547
Shale	1547	1694
Middle Maxon	1694	1748
Sand and Shale	1748	1932
Little Lime	1932	1976
Shale	1976	1982
Blue Monday	1982	2010
Shale	2010	2028
Big Lime	2028	2229
Shale	2229	2307
TD	2307	

^{*} Depths 10 ft KB

Well

PMOG 14

Permit

47-015-02588R

Stage 1

Date 1/11/2008
Frac 75Q N2 Foam Acid
Formation(s) Big Lime

Interval

2225-2079kb

of Perf

Open Hole

BD Press

700 psi

Avg Treating

Press

991 psi

Max Treating

Press 1398 psi
Avg Rate (dh) 7 bpm
ISIP psi
5 min SIP psi

Total Acid 2000/15%HCl gal
Total N2 14,000 scf
Total H2O bbl
Total Sand sx

Note: Drill out 4½ casing shoe, complete Big Lime open hole Note: Unable to release 4½ x 2% packer (sanded in at 2040 ft)