WR-35 Rev (9-11)

State of West Virginia Department of Environmental Protection Office of Oil and Gas Well Operator's Report of Well Work

DATE:	April 23, 2012
API #:	47-067-00845

TION: Elevation: 1489.32	Quadrangle:	Quadrangle: Lockwood 7.5' County: Nicholas				
District: Jefferson	County: Nich					
		20 Min. 0 Sec.				
Longitude 7,100 Feet West of 81 D	eg02Mi	n. 30 S	ec.			
Company: Range Resources - Pine Mountain, Inc	;					
Address: 406 W Main St., PO Box 2136	Casing & Tubing	Used in drilling	Left in well	ll Cement fill up Cu, Ft.		
Abingdon, VA 24210	11-3/4	30				
Agent: Geary Legg	8-5/8	442	442	115 sk		
Inspector: Richard Campbell	4-1/2		1961	160 sk		
Date Permit Issued: 9/14/2011						
Date Well Work Commenced: 11/13/2001						
Date Well Work Completed: 3/25/2002						
Verbal Plugging:						
Date Permission granted on:						
Rotary Cable Rig						
Total Vertical Depth (ft): 2369 kb				·		
Total Measured Depth (ft):						
Fresh Water Depth (ft.): 105 kb						
Salt Water Depth (ft.): 1629 kb				**		
Is coal being mined in area (N/Y)? N						
Coal Depths (ft.): NA						
Void(s) encountered (N/Y) Depth(s) N						
N FLOW DATA (If more than two producing form	ations places incl	ada additional	data an assessate s	L 4\		
	ay zone depth (ft)		data on separate s	nicet)		
Bas: Initial open flowMCF/d Oil: Initial ope		Bbl/d				
Final open flow 11 MCF/d Final open f		bl/d		•		
Time of open flow between initial and final tests 4 tatic rock Pressure 15 psig (surface pressure				•		
paig (surface pressure) alter1101	112				
	zone depth (ft)					
Gas: Initial open flow MCF/d Oil: Initial open flow Bbl/d						
Final open flow MCF/d Final open f Time of open flow between initial and final tests	lowB Hour	bl/d				

I certify under penalty of law that I have personally examined and am familiar with the information submitted on this document and all the attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information I believe that the information is true, accurate, and complete.

Signature

4/23/2012 Date

Were core samples taken? YesNo		,	Were cuttin	gs caught	during drilling? Yes No
Were Electrical, Mechanical or Geophysical logs recording Res GR/Dens/Temp/Audio/PE/Caliper	ded on thi	s we	ell? If yes,	please list	
NOTE: IN THE AREA BELOW PUT THE FRACTURING OR STIMULATING, PHYSICAL DETAILED GEOLOGICAL RECORD OF THE COAL ENCOUNTERED BY THE WELLBORE I	CHANG TOPS	E, I AN	ETC. 2). T D BOTT(HE WELI DMS OF	L LOG WHICH IS A SYSTEMATIC ALL FORMATIONS, INCLUDING
Perforated Intervals, Fracturing, or Stimulating:					
1st stage: Perf 1783-1790 kb 8h; 1795-1806					
Re-perforate: Perf 1783, 1787, 1789, 1795,	1797, 17	99,	, 1801, 1	802, 180	3, 1805 kb, 10h
Ballout w/12 bbl 28% HCl					
Re-frac: Frac w/426 bbl 25# x-link. Avg Rate	e - 11 bp	m ((dh), Avg	Press -	2780 psi, Max Press - 3600 psi
Total 20/40 sand - 40,100#					
ISIP - 2000 psi					
Plug Back Details Including Plug Type and Depth(s):	Hole g	ell	ed at TE). Open	hole bridged @ 2015' kb,
	did no	ot c	lean ou	it to TD.	
Formations Encountered: Surface:	Top De	oth_		/	Bottom Depth
Shale and Sand	0 /	g	20		
Salt Sand	920	1	1030		
Shale and Sand	1030	1	1447		
Upper Maxon	1447	1	1528		
Shale	1528	1	1662		
Shale and Sand	1662	1	1771		
Lower Maxon	1771	7	1843		
Shale and Sand	1843	1	1915	•	
Little Lime	1915	1	1952		
Shale	1952	1	1961		
Blue Monday	1961	1	1976		
Shale	1976	1	2004		
Big Lime	2004	1	2225		
Shale	2225	1	2369		
TD	2369				