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:	02/14/2013
API#:	47-091-01252

Farm name: Patriot Mining Company		Operator Well No.: Coaltrain 9HM			
LOCATION: Elevation: 1273' GL		Quadrangle:Grafton 7.5'			
District: Courthouse		County: _ Taylor			
Latitude: 13,249 Feet South of 39 Deg.	20 Min. 00 Sec.				
Longitude 7,570 Feet West of 80 Deg.	05 Min	Sec	<b>.</b>		
Company: PDC Mountaineer LLC					
Address: 120 Genesis Boulevard	Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.	
Bridgeport, WV 26330	20"	80'	80'	Surface	
Agent: Bob Williamson	13 3/8"	462'	462'	383	
Inspector: Joe McCourt	9 5/8"	2779'	2779'	1068	
Date Permit Issued: 11/30/2011	5 1/2"	14,372'	14,372'	3802	
Date Well Work Commenced: 12/29/2011					
Date Well Work Completed: 05/16/2012			8234'		
Verbal Plugging:					
Date Permission granted on:					
Rotary Cable Rig					
Total Vertical Depth (ft): 7,772'					
Total Measured Depth (ft): 14,392'					
Fresh Water Depth (ft.): Drilled from surf on air/foam					
Salt Water Depth (ft.): Drilled from surf on air/foam					
Is coal being mined in area (N/Y)? N					
Coal Depths (ft.): 78', 783'					
Void(s) encountered (N/Y) Depth(s) N					
PEN FLOW DATA (If more than two producing formation Producing formation Marcellus Pay z. Gas: Initial open flow 6,250 MCF/d Oil: Initial open flow Final open flow MCF/d Final open flow Time of open flow between initial and final tests 77 Static rock Pressure 1,650 psig (surface pressure) after the producing formation of the producing formation open flow and producing formation open flow prize formation open flow formation open flow producing formation open flow formation open flow formation open flow formation open flow flow formation open flow flow flow flow flow flow flow flow	one depth (ft) owB ,B 'OHour	7767' 8b1/d b1/d s	RECEN	/ED	
Second producing formation N/A Pay zone depth (ft)			FEB 1 9 2013		
Gas: Initial open flow MCF/d Oil: Initial open fl		lowBbl/d vBbl/d WV Depo			
rtify under penalty of law that I have personally examined a me attachments and that, based on my inquiry of those indivithe information is true, accurate, and complete.	and am familia Aiduals immed	iately responsi	ole for obtaining	ed on this document and the information I believ	
Signature				03/08/201	
	viduals immed		ole for obtaining /15/2013 Date		

91.01252

Were core samples taken? Yes	No_XX Were c	Were cuttings caught during drilling? Yes XX No			
Were Electrical, Mechanical or Geophys	ical logs recorded on this well? If	yes, please list Mud Log from	6900'- 14,392'.SLB open hale LWD EcoScope		
SanicVision Image /GR/Dens/Neutron from 8,422-14,3	66'. Pathfinder Directional surveys from 2,808'-	TD (GR from 5,950' to TD). SLB 30	Bore Hole Caliper.		
NOTE: IN THE AREA BELOW FRACTURING OR STIMULATING DETAILED GEOLOGICAL RECO COAL ENCOUNTERED BY THE W	, PHYSICAL CHANGE, ETC. 2 PRD OF THE TOPS AND BO	). THE WELL LOG V TTOMS OF ALL FO	VHICH IS A SYSTEMATIC		
Perforated Intervals, Fracturing, or Stime	_				
Perforated interval 10,809 ft - 13,8					
bbls of Slickwater carrying 740,5	600 lbs of 100-mesh sand, 2	2,632,800 lbs of 40/	70 sand, and 77,200 lbs		
of 30/50 sand.	and the second s				
		<u> </u>			
Plug Back Details Including Plug Type	and Depth(s):				
Formations Encountered:	Top Depth	1	Bottom Depth		
Surface:					
	4500	4527			
Little Lime (est)	1522	1537			
Big Lime (est)	1559	1741	MECEIVED -		
Gantz (est)	2000	2018	Office of Oil & Gas		
50 Foot (est)	2057	2141	FEB <b>1 9</b> 2013		
30 Foot (est)	2155	2209	1 LD 1 7 (11)		
Gordon(est)	2230	2266	WV Department of		
4th Sand (est)	2477	2535	Environmental Protection		
5th Sand (est)	2551	2595			
Riley (est)	4155	4508			
Benson (est)	4664	4704	010		
Sycamore	6774	6878	Show Gas		
Geneseo	7458	7472	Show Gas		
Tully	7472	7536			
Marcellus	7701	14,392' MD			
All depths are KB (19') TVD exce	ept MD-TD. Depths below B	enson are from dire	ectional "GR-TVD" Log.		