

Doyle Hartman  
 C. T. BATES NO. 2  
 1980' FSL and 760' FWL (L)  
 Section 10, T-26-S, R-37-E  
 Lea County, New Mexico  
 Rhodes (Y-7R) Gas  
 Elev: 2978.7 GR  
 Proposed TD: 3800'  
 Cactus Rig No. 53  
 API No. 30-025-311167

01-16-91 1:45 AM - Drilling in Salt Section at approximate depth of 2270'. Experienced drilling break of 86' in 11 minutes from 2244-2280'. Well flowing salt water and some gas to reserve pit through 4" choke valve with pressure of 800 psig.

01-17-91/ Well flowing salt water and some gas at a rate of approxi-  
 01-19-91 amately 600 to 1200 bbls of water per hour. Unable to shut well in so as to minimize crossflow into fresh water zones above the Rustler formation and in order to prevent cratering the well. All excess water flowing to reserve pit. Analyzing options to bring well under control in accordance with NMOCD regulations.

01-20-91 Well continued as follows to flow out of control as defined  
 01-21-91 by the New Mexico Oil Conservation Division.

Date	Time	Drill Pipe FW (psig)	Drill Pipe BW (psig)	Annulus BW (psig)	Est. Blowout Rate (BWPM)	Remarks	
1-19-91	8:00 AM		355	329			
	9:00		135	80			
	10:00		130	75			
	10:10		360	330			
	11:00		130	80			
	12:00		135	70			
	12:10 PM		360	330			
	1:00		135	80			
	2:00		135	80			
	2:10		355	--			
	3:00			135	75		
	4:00		212		90		Pumped 60 bbls of fresh water
	4:10		425		305		
	5:00						Started pumping fresh water
	5:20						Finished pumping fresh water
	5:30		510		310		Shut-in
	5:37		250		10	16	7-min. test
	5:40		510		310		Shut-in
	5:45		512		310		
	5:50		278		40		
	5:53		260		15		
	6:00		250		10		
	6:10		512		310		
7:00		240		15			
8:00		240		10			
8:10		515		310			
9:00		237	40	20			
10:00			40	20			
10:10		512	315	300			
11:00		237	40	20			
12:00			25	20			
1-20-91	12:10 AM	509	312	305			
	1:00		25	10			
	2:00		25	10			
	2:10		265	280			
	3:00		25	10			
	4:00		25	8			
	4:10		260	275			
	5:00		20	10			
	6:00		20	10			
	6:10		300	290			
	7:38		15	8			Pumped fresh water

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