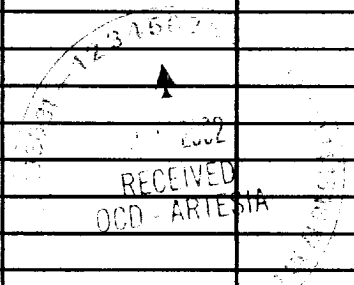


Step Rate Test

Company: Thunderbolt Petroleum			Company Representative: Robert Lee		
Lease: Cal-Mon State #3			Test Date & Time: 6/25/02		
State: New Mexico		County: Eddy		Elevation:	
Formation:		Unit:		Section: 16	
Township: 18S			Range: 29E		
Test Crew: David Bump					
TD@			PBT@		
Packer Set @: 2192					
Casing Size: 5 1/2			Casing Wt.:		
Casing Dia.:			Casing Set @:		
Tubing Size: 2 3/8 P.C.			Tubing Wt.:		
Tubing Dia.:			Tubing Set @:		
Perforations From: 2264			To: 2490		
Time	Elapse Time	Tubing Pressure	Tubing Pressure Less Friction	BHP	Rate BPD
10:30		250			0
10:35		370			670
10:40		400			670
10:45	15	420			670
10:50		470			770
10:55		490			770
11:00	30	510			770
11:05		570			870
11:10		580			870
11:15	45	590			870
11:20		620			1040
11:25		625			1040
11:30	60	635			1040
11:35		650			1150
11:40		660			1150
11:45	75	670			1150
11:50		690			1260
11:55		700			1260
12:00	90	710			1260
					
Test Conducted By: David Bump Signal Wireline And Testing					

Test Conducted By:

David Bump

Signal Wireline And Testing

Office

505-392-2048

Toll Free
866-766-SWAT

Signal Wireline And Testing

Signal Wireline And Testing
Step Rate Injection Test

Thunderbolt Petroleum
Cal-Mon State #3

