

Company: Noble Energy Inc			Well Name: Rohn State LD04-64-1HN		
UWI or LSR: 05-123-07463			Rig Id: Helmerich 273		
State: Colorado			County/Parish: Weld		
Country: USA			Survey Company: Ensign Directional		
Job number: 207-273-15			Directional Pillar 1: Kacy Wood		
Directional Pillar 2: Jamie Sheets			MWD 1: Tyler Telleque		
MWD 2: Bill Mercer					
Log measurements: 500			Depth		
Depth measured from: KB			Start: 1230 ft 08/16/2013		
Maximum temperature: 206.6			End: 9566 ft 08/20/2013		
Casing			Mud Type:		
Depth			Density:		
Surface: 1230 9.625			Elevations		
Intermediate: 6098 7			Viscosity:		
			Rm:		
			Rmc:		
			G.L: 4731		
			D.F: 4731		
Run Size			Gamma Survey		
			Start		
			End		
			Start		
			End		
1 8.75 53.58 48.58 1230 4836 08/16/2013 08/16/2013					
2 8.75 52.14 52.14 4836 6018 08/17/2013 08/17/2013					
3 6.125 56.67 56.67 6018 9566 08/18/2013 08/20/2013					
4					
5					
6					
7					
8					
9					
10					

Ensign Directional uses its best efforts to provide its customers with accurate information and interpretations in conjunction with services performed but will not be held liable or responsible for the accuracy of such information or interpretation.

