

Ensign Energy, Inc.

Company: Noble Energy, Inc.
Well Name: Kummer PC LE23-64HN
UWI or LSI: 05-123-36379

Rig ID: Helmerich 273
State: Colorado
County/Parish: Weld

Country: USA
Survey Company: Ensign Directional

Job Number: 207272-02
Directional Driller 1: Kody Wood
Directional Driller 2: Nabe Broughts

MWD 1: T/Kel Powell
MWD 2: Brett Blank

Log measurements: 750	Depth	Date
Maximum temperature: KB	Start: 765 ft	4/22/2013
	End: 10804 ft	4/27/2013

Casing	Depth	Size	Mud Type:	Elevations
Surface	76.1	9 5/8		KB: 5005
Intermediate:	6932	7	Viscosity:	GL: 4982
				DE: 5005

Run	Bit Size	Gamma	Survey	Start	End	Dates	End
1	8 7/5	53.54	43.54	5789	4/6/2013	4/23/2013	
2	8 7/5	53.54	43.54	5789	6992	4/23/2013	
3	6 1/25	35.16	50.99	6992	10804	4/24/2013	

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.

