

Company: Noble Energy Inc
Well Name: Kummer/ PC LE23-65-HN
UWI or LBD: 05-123-36865

Rig Id: Hammerich 273

State: Colorado

County/Parish: Weld

County: USA

Survey Company: Ensign Directional

Job Number: 207273-02

Directional Driller 1 Kody Wood

Directional Driller 2 Nate Borogins

MWD 1 Joel Alcala

MWD 2 Brent Blank

Log measurements: 750 Maximum temperature:	Depth	Date
Start: 757 ft 3/28/2013		
End: 10742 ft 4/4/2013		

Casing	Depth	Size	Mud Type:	Elevations				
				Viscosity:				KB: 5006
				Surface: 726				GI: 4982
				Intermediate: 6910				DF: 5006
Rim:								
Rmtc:								
its customers								
held liable o								
ID								
0.0								
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Run	Bit Size	Gamma	Survey	Start	End	Dates	Start	End
1	8 7/8	53.30	43.30	476	476	3/28/2013	3/30/2013	3/30/2013
2	8 7/8	52.52	47.62	476	6910	3/28/2013	4/8/2013	4/8/2013
3	8 7/8	51.32	56.32	6910	6910	4/7/2013	4/8/2013	4/8/2013
4	8 7/8	51.32	56.35	6935	10742	4/8/2013	4/8/2013	4/8/2013
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.

