



# Kummer PC LE 23-64HN

TVD  
1"=100'

Company: Noble Energy Inc  
Well Name: Kummer PC LE23-64HN  
UWI or LSD: 05-123-36679  
Rig Id: Heimerich 273  
State: Colorado  
County/Parish: Weld  
Country: USA  
Survey Company: Ensign Directional  
Job Number: 207213-02  
Directional Driller 1: Kody Wood  
Directional Driller 2: Nate Boroughs  
MWD 1: Tyler Powell  
MWD 2: Brett Blank

Log Measurements: 750  
Depth measured from: KB  
Maximum temperature:  
Start: 766 ft 4/22/2013  
End: 10804 ft 4/27/2013

Casing Depth Size  
Surface: 75.1 9.5/8  
Intermediate: 6952 7  
Mud Type:  
Density:  
Viscosity:  
Rm: Rmt: Rmc:  
Elevations  
KB: 5006  
DF: 5006

Run	Bit Size	Gamma Survey	Start	End	Start	Dates	End
1	8.25	53.54	48.54	765	5789	4/6/2013	4/23/2013
2	8.25	53.54	48.54	5788	6952	4/23/2013	4/24/2013
3	6.125	56.16	50.99	6952	10804	4/24/2013	4/27/2013
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.

