

Company: Noble Energy Inc.  
Well Name: Guttersen D30-68-1HN  
UWI: 05-123-35611

Rig Id: 121  
State: Colorado  
County/Parish: Weld

Country: USA

Survey Company: Ensign Energy Inc  
Job number: 207-121-149

Company Man 1: Devin Roberts

Company Man 2:

Geologist 1: James Taylor

Directional Driller 1: Zach Gentry

Directional Driller 2: Nick Brownwood

MWD 1: Jeremy Bobo

MWD 2: Matt Mason

Log measurements:	Depth	
	Start:	Date
Depth measured from:	845 ft	2012-July-02
Maximum temperature:	11278 ft	2012-July-10

Casing	Depth	Size	Mud Type:	Elevations
			Density:	KB: 4800
			Viscosity:	GI: 4787
			Rm:	DF: 4800
Intermediate:	7210	7		

Run	Bit Size	Gamma Survey	Start	End	Dates	Start	End
1	8.75	39.47	845	6654	2012-July-02	2012-July-04	
2	8.75	39.87	51.45	6654	2012-July-04	2012-July-06	
3	6.125	59.28	74.11	7220	2012-July-07	2012-July-10	
4				11278			
5							
6							
7							
8							
9							
10							

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