

Company: Noble Energy, Inc
Well Name: Thistle Down PC F36-65HN
UWI or LBD: 05-123-35677

Rig Id: Precision 828
State: Colorado

County/Parish: Weld
County: USA
Survey Company: Ensign Directional

Job Number: 82804

Company Man 1: Jill Keener
Directional Driller 1: Mike Brownwood
Directional Driller 2: Tanner Stawitz

MMD 1: Matt Mason
MMD 2: Joel Acala

Log Measurements:	Depth	Date
Depth measured from: KB	Start: 634 ft	01-29-2013
Maximum temperature:	End: 11142 ft	02-07-2013

Casing	Depth	Size	Mud Type:	Elevations
Surface: 634				KB: 4786
Intermediate: 7280	7		Viscosity:	GL: 4770

Run	Bit Size	Gamma	Survey	Start	End	Start	Dates	End
1	8.75	53.72	48.67	7270	7270	01-29-2013		02-03-2013
2	6.25	58.67	54.67	7270	11142	02-04-2013		02-07-2013

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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.

