ENSIGN

Thistle Down 31H-332

TVD
5":100’

Company: PDC Energy Inc
Well Name: Thistle Down 31H-332
API: 051234545500
County/Parish: WELD
State: COLORADO
Country: USA
Job number: 152-176
Field: Wattenberg
Rig Id: Ensign 152
Survey Company: Ensign Directional
DD1 Jesus Gallego
DD2 Dan Hanson
DD3
MWD1 Ryan Prue
MWD2 Paul Wilson

Log measurements: Gamma, ROP
Depth measured from: 1690 ft
Maximum temperature: 204.8

	Depth	Date
Start:	0 ft	12-6-2018
End:	12949 ft	12-9-2018

Casing	Depth	Size
Surface:	1690 ft	9 5/8"
Intermediate:		

Mud Type: Water
Density: 10.4
Viscosity: 39
Rm: **Rmf:** **Rmc:**

Elevations
KB: 23 ft
GL: 4803 ft
DF: 4826 ft

Run	Bit Size	Offsets		Depths		Dates	
		Gamma	Survey	Start	End	Start	End
1	12.25"		58.44 ft	0 ft	1690 ft	12-6-2018	12-6-2018
2	8.5"	63.14 ft	58.31 ft	1690 ft	12949 ft	12-7-2018	12-9-2018
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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.

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