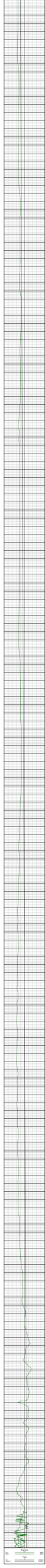

ENSIGN

Thistle Down 31H-312

TVD
5":100’

Company: PDC Energy Inc
Well Name: Thistle Down 31H-312
API: 051234526000
County/Parish: WELD
State: COLORADO
Country: USA
Job number: 152-180
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: 219.2

	Depth	Date
Start:	0 ft	12-26-2018
End:	12893 ft	12-29-2018

Casing	Depth	Size
Surface:	2517 ft	9 5/8"
Intermediate:		

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

Elevations
KB: 23 ft
GL: 4804 ft
DF: 4827 ft

Run	Bit Size	Offsets		Depths		Dates	
		Gamma	Survey	Start	End	Start	End
1	12.25"		58.44 ft	0 ft	2530 ft	12-26-2018	12-26-2018
2	8.5"	63.25 ft	58.42 ft	2530 ft	12893 ft	12-27-2018	12-29-2018
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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.

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