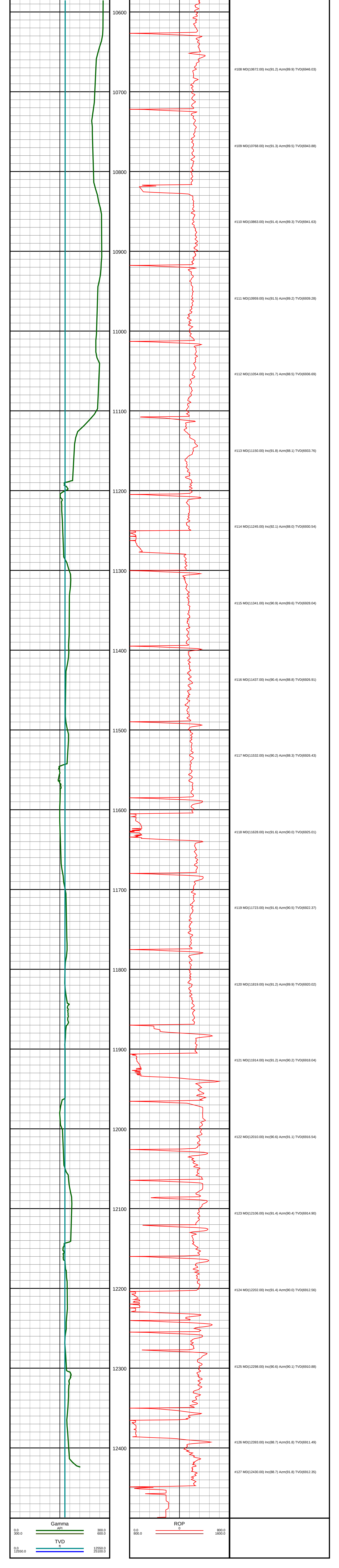

ENSIGN

Thistle Down 31H-302

MD
2":100’

Company: PDC Energy Inc
Well Name: Thistle Down 31H-302
API:
County/Parish: WELD
State: COLORADO
Country: USA
Job number: 152-178
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	12-16-2018
End:	12487 ft	12-19-2018

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:	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	1690 ft	12-16-2018	12-19-2018
2	8.5"	63.21 ft	57.22 ft	1690 ft	12487 ft	12-16-2018	12-19-2018
3							
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.

10600
10700
10800
10900
11000
11100
11200
11300
11400
11500
11600
11700
11800
11900
12000
12100
12200
12300
12400
#108 MD(10672.00) Inc(91.2) Azm(89.9) TVD(6946.03)
#109 MD(10768.00) Inc(91.3) Azm(89.5) TVD(6943.88)
#110 MD(10863.00) Inc(91.4) Azm(89.3) TVD(6941.63)
#111 MD(10959.00) Inc(91.5) Azm(89.2) TVD(6939.28)
#112 MD(11054.00) Inc(91.7) Azm(88.5) TVD(6936.69)
#113 MD(11150.00) Inc(91.8) Azm(88.1) TVD(6933.76)
#114 MD(11245.00) Inc(92.1) Azm(88.0) TVD(6930.54)
#115 MD(11341.00) Inc(90.9) Azm(89.6) TVD(6928.04)
#116 MD(11437.00) Inc(90.4) Azm(88.8) TVD(6926.91)
#117 MD(11532.00) Inc(90.2) Azm(88.3) TVD(6926.43)
#118 MD(11628.00) Inc(91.6) Azm(90.0) TVD(6925.01)
#119 MD(11723.00) Inc(91.6) Azm(90.5) TVD(6922.37)
#120 MD(11819.00) Inc(91.2) Azm(89.9) TVD(6920.02)
#121 MD(11914.00) Inc(91.2) Azm(90.2) TVD(6918.04)
#122 MD(12010.00) Inc(90.6) Azm(91.1) TVD(6916.54)
#123 MD(12106.00) Inc(91.4) Azm(90.4) TVD(6914.90)
#124 MD(12202.00) Inc(91.4) Azm(90.0) TVD(6912.56)
#125 MD(12298.00) Inc(90.6) Azm(90.1) TVD(6910.88)
#126 MD(12393.00) Inc(88.7) Azm(91.8) TVD(6911.49)
#127 MD(12430.00) Inc(88.7) Azm(91.8) TVD(6912.35)
Gamma
API
0.0
300.0
300.0
600.0
TVD
ft
0.0
12550.0
12550.0
25100.0
ROP
0
0.0
800.0
800.0
1600.0