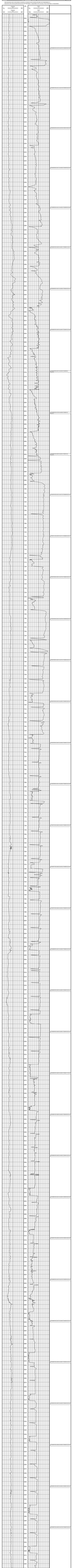

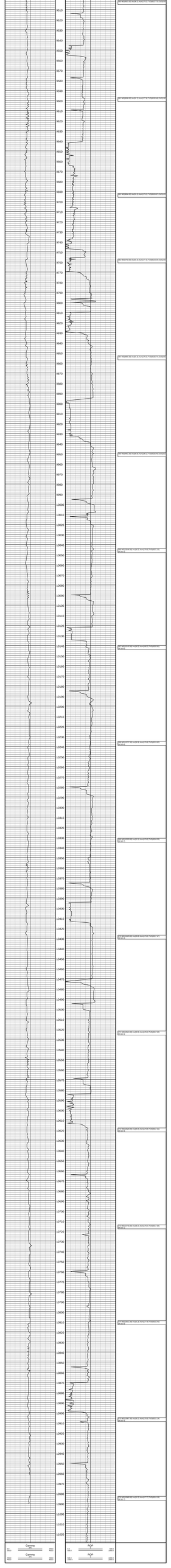

Sater 19E-203

MD
5":100'

Company: PDC Energy
Well Name: Sater 19E-203
API:
County/Parish: Weld
State: Colorado
Country: USA
Job number: 2016-003-135
Field: DJ Basin
Rig Id: Ensign 135
Survey Company: Total Directional
Company Man Shane Paris
Company Man John Falton
Directional Driller 1 Tanner Shwartz
Directional Driller 2 Chris Lewis
Directional Driller 3 Fred Sell
MWD 1 Josh St Germain
MWD 2 Troy Chaney
MWD 3 Aaron Lawrence

Log measurements: Gamma
Depth measured from: Rig Floor ft
Maximum temperature: 150 C

	Depth	**Date**
Start:	0 ft	01-22-2016
End:	ft	

Casing	**Depth**	**Size**
Surface:	1636 ft	9 5/8"
Intermediate:		

Mud Type: Water
Density: 10.2
Viscosity: 40
Rm: **Rmf:** **Rmc:**

Elevations
KB: 4674 ft
GL: 4661 ft
DF: 13 ft

Run	**Bit Size**	**Offsets**		**Depths**		**Dates**	
		Gamma	**Survey**	**Start**	**End**	**Start**	**End**
1	12.25"	49.08 ft		0 ft	1636 ft	01-22-2016	1-24-2016
2	8.75"	39.00 ft	43.00 ft	1636 ft	9769 ft	1-25-2016	1/26/2016
3	8.75"	39.00 ft	44.00 ft	9769 ft			
4							
5							
6							
7							
8							
9							
10							

Total 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.

#23 MD(5981.00) Inc(10.6) Azm(167.8) TVD(5942.66) DLS(6.6)

#24 MD(6073.00) Inc(15.1) Azm(174.9) TVD(6032.33) DLS(5.2)

#25 MD(6166.00) Inc(19.6) Azm(178.0) TVD(6121.08) DLS(4.9)

#26 MD(6258.00) Inc(25.7) Azm(180.6) TVD(6205.95) DLS(6.7)

#27 MD(6350.00) Inc(33.1) Azm(183.3) TVD(6286.05) DLS(8.2)

#28 MD(6442.00) Inc(39.6) Azm(182.1) TVD(6360.11) DLS(7.1)

#29 MD(6538.00) Inc(46.2) Azm(180.0) TVD(6430.40) DLS(7.0)

#30 MD(6633.00) Inc(55.6) Azm(180.2) TVD(6490.24) DLS(9.9)

#31 MD(6729.00) Inc(67.3) Azm(184.8) TVD(6536.06) DLS(12.9)

#32 MD(6825.00) Inc(79.8) Azm(185.8) TVD(6563.19) DLS(13.1)

#33 MD(6921.00) Inc(90.5) Azm(181.4) TVD(6571.30) DLS(12.0)

#34 MD(7015.00) Inc(91.3) Azm(177.6) TVD(6569.83) DLS(4.1)

#35 MD(7111.00) Inc(92.9) Azm(177.1) TVD(6566.31) DLS(1.7)

#36 MD(7206.00) Inc(93.4) Azm(178.3) TVD(6561.09) DLS(1.4)

#37 MD(7303.00) Inc(91.6) Azm(178.0) TVD(6556.86) DLS(1.9)

#38 MD(7398.00) Inc(90.2) Azm(178.4) TVD(6555.36) DLS(1.5)

#39 MD(7494.00) Inc(91.0) Azm(180.2) TVD(6554.36) DLS(2.1)

#40 MD(7590.00) Inc(90.3) Azm(180.6) TVD(6553.27) DLS(0.8)

#41 MD(7685.00) Inc(91.2) Azm(180.6) TVD(6552.03) DLS(0.9)

#42 MD(7781.00) Inc(90.0) Azm(181.9) TVD(6551.02) DLS(1.8)

#43 MD(7877.00) Inc(90.6) Azm(181.6) TVD(6550.52) DLS(0.7)

#44 MD(7973.00) Inc(90.6) Azm(181.0) TVD(6549.51) DLS(0.6)

#45 MD(8068.00) Inc(91.0) Azm(180.6) TVD(6548.19) DLS(0.6)

#46 MD(8163.00) Inc(92.0) Azm(180.4) TVD(6545.70) DLS(1.1)

#47 MD(8259.00) Inc(90.8) Azm(180.1) TVD(6543.36) DLS(1.3)

#48 MD(8355.00) Inc(89.9) Azm(180.4) TVD(6542.77) DLS(1.0)

#49 MD(8451.00) Inc(88.8) Azm(180.3) TVD(6543.86) DLS(1.2)

#50 MD(8546.00) Inc(90.8) Azm(180.0) TVD(6544.19) DLS(2.1)

#51 MD(8642.00) Inc(91.0) Azm(180.3) TVD(6542.68) DLS(0.4)

#52 MD(8737.00) Inc(90.6) Azm(179.9) TVD(6541.36) DLS(0.6)

#53 MD(8833.00) Inc(91.8) Azm(179.3) TVD(6539.34) DLS(1.4)

#54 MD(8929.00) Inc(91.9) Azm(180.6) TVD(6536.25) DLS(1.4)

#55 MD(9024.00) Inc(90.8) Azm(180.7) TVD(6534.01) DLS(1.2)

#56 MD(9120.00) Inc(90.5) Azm(180.6) TVD(6532.92) DLS(0.3)

#57 MD(9216.00) Inc(89.8) Azm(180.5) TVD(6532.67) DLS(0.7)

#58 MD(9312.00) Inc(92.0) Azm(180.4) TVD(6531.16) DLS(2.3)

#59 MD(9407.00) Inc(90.9) Azm(179.9) TVD(6528.76) DLS(1.3)

#60 MD(9503.00) Inc(90.3) Azm(179.3) TVD(6527.75) DLS(0.9)

#61 MD(9599.00) Inc(91.2) Azm(177.8) TVD(6526.49) DLS(1.8)

#62 MD(9694.00) Inc(91.0) Azm(179.2) TVD(6524.67) DLS(1.5)

#63 MD(9759.00) Inc(91.5) Azm(177.4) TVD(6523.25) DLS(2.9)

#64 MD(9855.00) Inc(91.5) Azm(178.3) TVD(6520.74) DLS(0.9)

#65 MD(9951.00) Inc(88.9) Azm(180.1) TVD(6520.40) DLS(3.3)

#66 MD(10046.00) Inc(90.2) Azm(179.6) TVD(6521.15) DLS(1.5)

#67 MD(10142.00) Inc(90.2) Azm(180.2) TVD(6520.81) DLS(0.6)

#68 MD(10237.00) Inc(90.9) Azm(179.9) TVD(6519.90) DLS(0.8)

#69 MD(10333.00) Inc(91.1) Azm(179.3) TVD(6518.23) DLS(0.7)

#70 MD(10429.00) Inc(89.8) Azm(179.6) TVD(6517.47) DLS(1.4)

#71 MD(10524.00) Inc(90.5) Azm(178.4) TVD(6517.22) DLS(1.5)

#72 MD(10620.00) Inc(89.4) Azm(179.9) TVD(6517.31) DLS(1.9)

#73 MD(10716.00) Inc(90.2) Azm(179.2) TVD(6517.64) DLS(1.1)

#74 MD(10811.00) Inc(91.3) Azm(177.9) TVD(6516.40) DLS(1.8)

#75 MD(10907.00) Inc(90.2) Azm(178.6) TVD(6515.14) DLS(1.4)

#76 MD(10985.00) Inc(91.2) Azm(177.7) TVD(6514.19) DLS(1.7)