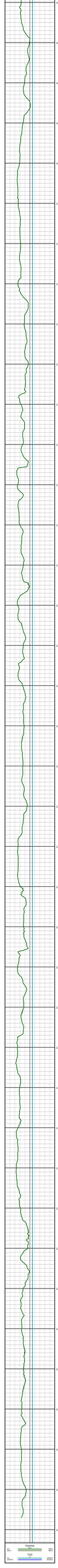

Boulter Farms 27G-332

MD
2":100'

Company: PDC Energy Inc
Well Name: Boulter Farms 27G-332
API: 0512343528
County/Parish: WELD
State: COLORADO
Country: USA
Job number: 152-116
Field: Wattenberg
Rig Id: Ensign 152
Survey Company: Ensign Directional
DD1 Jesus Gallego
DD2 Dan Hansen
DD3
MWD1 Louie Ascione
MWD2 Ryan Prue
MWD3
MWD4

Log measurements: Gamma, ROP
Depth measured from:
Maximum temperature:

	Depth	Date
Start:	0 ft	12-14-2017
End:	ft	

Casing	**Depth**	**Size**
Surface:	1650 ft	9 5/8"
Intermediate:		

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

Elevations
KB: 23 ft
GL: 4657 ft
DF: 4780 ft

Run	**Bit Size**	**Offsets**		**Depths**		**Dates**	
		Gamma	**Survey**	**Start**	**End**	**Start**	**End**
1	12.25"		60.00 ft	0 ft	1650 ft	12-14-2017	12-14-2017
2	8.5"	62.36 ft	57.53 ft	1650 ft	14102 ft	12-15-2017	12-18-2017
3	8.5"	62.43 ft	57.60 ft	14102 ft	14333 ft	12-19-2017	
4							
5							
6							
7							
8							
9							
10							

Ensign Directional uses its best efforts to provide to 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.

#15 MD(1494.00) Inc(6.9) Azm(325.6) TVD(1485.09) DLS(1.1)
#16 MD(1590.00) Inc(6.2) Azm(323.3) TVD(1580.47) DLS(0.8)
#17 MD(1686.00) Inc(5.3) Azm(324.3) TVD(1675.98) DLS(0.9)
#18 MD(1782.00) Inc(7.0) Azm(327.5) TVD(1771.43) DLS(1.8)
#19 MD(1877.00) Inc(9.1) Azm(328.7) TVD(1865.49) DLS(2.2)
#20 MD(1973.00) Inc(8.6) Azm(323.1) TVD(1960.34) DLS(1.0)
#21 MD(2069.00) Inc(8.3) Azm(320.3) TVD(2055.30) DLS(0.5)
#22 MD(2164.00) Inc(7.6) Azm(321.3) TVD(2149.39) DLS(0.8)
#23 MD(2259.00) Inc(6.9) Azm(316.8) TVD(2243.63) DLS(0.9)
#24 MD(2354.00) Inc(6.3) Azm(336.8) TVD(2338.01) DLS(2.5)
#25 MD(2450.00) Inc(6.9) Azm(335.1) TVD(2433.38) DLS(0.7)
#26 MD(2546.00) Inc(7.9) Azm(339.5) TVD(2528.58) DLS(1.2)
#27 MD(2642.00) Inc(8.1) Azm(338.6) TVD(2623.64) DLS(0.2)
#28 MD(2754.00) Inc(8.3) Azm(338.2) TVD(2734.50) DLS(0.2)
#29 MD(2849.00) Inc(7.7) Azm(336.2) TVD(2828.57) DLS(0.7)
#30 MD(2945.00) Inc(7.9) Azm(337.0) TVD(2923.68) DLS(0.2)
#31 MD(3041.00) Inc(10.1) Azm(339.3) TVD(3018.50) DLS(2.3)
#32 MD(3137.00) Inc(9.3) Azm(335.1) TVD(3113.12) DLS(1.1)
#33 MD(3233.00) Inc(8.0) Azm(331.9) TVD(3208.03) DLS(1.4)
#34 MD(3328.00) Inc(6.9) Azm(327.5) TVD(3302.23) DLS(1.3)
#35 MD(3424.00) Inc(7.9) Azm(326.4) TVD(3397.43) DLS(1.1)
#36 MD(3520.00) Inc(6.9) Azm(325.7) TVD(3492.63) DLS(1.0)
#37 MD(3615.00) Inc(7.9) Azm(340.9) TVD(3586.84) DLS(2.3)
#38 MD(3711.00) Inc(8.2) Azm(340.2) TVD(3681.90) DLS(0.3)
#39 MD(3807.00) Inc(9.2) Azm(338.0) TVD(3776.79) DLS(1.1)
#40 MD(3902.00) Inc(11.4) Azm(333.8) TVD(3870.26) DLS(2.4)
#41 MD(3998.00) Inc(10.4) Azm(335.1) TVD(3964.52) DLS(1.1)
#42 MD(4093.00) Inc(9.6) Azm(334.5) TVD(4058.08) DLS(0.8)
#43 MD(4189.00) Inc(8.5) Azm(332.8) TVD(4152.88) DLS(1.2)
#44 MD(4284.00) Inc(8.0) Azm(334.0) TVD(4246.90) DLS(0.6)
#45 MD(4380.00) Inc(8.3) Azm(326.3) TVD(4341.93) DLS(1.2)
#46 MD(4475.00) Inc(8.5) Azm(321.2) TVD(4435.91) DLS(0.8)
#47 MD(4571.00) Inc(8.0) Azm(321.0) TVD(4530.92) DLS(0.5)
#48 MD(4666.00) Inc(6.9) Azm(319.9) TVD(4625.12) DLS(1.2)
#49 MD(4762.00) Inc(7.3) Azm(318.0) TVD(4720.38) DLS(0.5)
#50 MD(4858.00) Inc(6.4) Azm(314.1) TVD(4815.70) DLS(1.1)
#51 MD(4952.00) Inc(6.9) Azm(311.7) TVD(4909.06) DLS(0.6)
#52 MD(5048.00) Inc(9.1) Azm(309.9) TVD(5004.12) DLS(2.3)
#53 MD(5144.00) Inc(8.5) Azm(307.8) TVD(5098.99) DLS(0.7)
#54 MD(5240.00) Inc(7.6) Azm(305.7) TVD(5194.05) DLS(1.0)
#55 MD(5336.00) Inc(8.8) Azm(299.9) TVD(5289.06) DLS(1.5)
#56 MD(5432.00) Inc(8.2) Azm(296.6) TVD(5384.01) DLS(0.8)
#57 MD(5528.00) Inc(8.1) Azm(296.4) TVD(5479.04) DLS(0.1)
#58 MD(5623.00) Inc(7.7) Azm(296.4) TVD(5573.14) DLS(0.4)
#59 MD(5718.00) Inc(6.6) Azm(296.0) TVD(5667.40) DLS(1.2)
#60 MD(5814.00) Inc(6.1) Azm(295.7) TVD(5762.81) DLS(0.5)
#61 MD(5909.00) Inc(5.1) Azm(289.4) TVD(5857.36) DLS(1.2)
#62 MD(6004.00) Inc(4.0) Azm(298.7) TVD(5952.06) DLS(1.4)
#63 MD(6099.00) Inc(3.4) Azm(296.2) TVD(6046.86) DLS(0.7)
#64 MD(6195.00) Inc(2.3) Azm(324.0) TVD(6142.74) DLS(1.8)
#65 MD(6291.00) Inc(2.9) Azm(18.7) TVD(6238.66) DLS(2.5)
#66 MD(6386.00) Inc(7.9) Azm(68.9) TVD(6333.24) DLS(6.8)
#67 MD(6482.00) Inc(14.5) Azm(72.1) TVD(6427.36) DLS(6.9)
#68 MD(6578.00) Inc(21.5) Azm(73.5) TVD(6518.61) DLS(7.3)
#69 MD(6673.00) Inc(28.9) Azm(82.8) TVD(6604.54) DLS(8.8)
#70 MD(6769.00) Inc(37.8) Azm(90.5) TVD(6684.69) DLS(10.2)
#71 MD(6864.00) Inc(49.2) Azm(93.7) TVD(6753.49) DLS(12.2)
#72 MD(6960.00) Inc(57.2) Azm(92.5) TVD(6810.96) DLS(8.4)
#73 MD(7055.00) Inc(63.7) Azm(90.4) TVD(6857.79) DLS(7.1)
#74 MD(7151.00) Inc(68.9) Azm(90.9) TVD(6896.36) DLS(5.4)
#75 MD(7246.00) Inc(72.4) Azm(94.8) TVD(6927.84) DLS(5.3)
#76 MD(7342.00) Inc(80.3) Azm(92.7) TVD(6950.48) DLS(8.5)
#77 MD(7438.00) Inc(90.5) Azm(90.0) TVD(6958.17) DLS(11.0)
#78 MD(7533.00) Inc(91.0) Azm(89.5) TVD(6956.93) DLS(0.7)
#79 MD(7629.00) Inc(91.3) Azm(88.8) TVD(6955.00) DLS(0.8)
#80 MD(7725.00) Inc(90.1) Azm(89.5) TVD(6953.83) DLS(1.4)
#81 MD(7821.00) Inc(89.7) Azm(89.1) TVD(6954.00) DLS(0.6)
#82 MD(7916.00) Inc(89.5) Azm(88.4) TVD(6954.66) DLS(0.8)
#83 MD(8011.00) Inc(88.6) Azm(90.2) TVD(6956.24) DLS(2.1)
#84 MD(8107.00) Inc(89.7) Azm(90.9) TVD(6957.66) DLS(1.4)
#85 MD(8202.00) Inc(89.7) Azm(90.2) TVD(6958.16) DLS(0.7)
#86 MD(8298.00) Inc(89.5) Azm(89.7) TVD(6958.83) DLS(0.6)
#87 MD(8393.00) Inc(89.3) Azm(91.6) TVD(6959.82) DLS(2.0)
#88 MD(8489.00) Inc(90.2) Azm(91.1) TVD(6960.24) DLS(1.1)
#89 MD(8585.00) Inc(92.5) Azm(90.5) TVD(6957.98) DLS(2.5)
#90 MD(8681.00) Inc(92.9) Azm(90.0) TVD(6953.46) DLS(0.7)
#91 MD(8776.00) Inc(92.0) Azm(91.8) TVD(6949.40) DLS(2.1)
#92 MD(8872.00) Inc(91.8) Azm(91.6) TVD(6946.21) DLS(0.3)
#93 MD(8967.00) Inc(91.9) Azm(91.6) TVD(6943.15) DLS(0.1)
#94 MD(9063.00) Inc(89.6) Azm(91.8) TVD(6941.89) DLS(2.4)
#95 MD(9158.00) Inc(89.8) Azm(91.6) TVD(6942.39) DLS(0.3)
#96 MD(9254.00) Inc(89.5) Azm(91.4) TVD(6942.97) DLS(0.4)
#97 MD(9349.00) Inc(88.9) Azm(90.0) TVD(6944.30) DLS(1.6)
#98 MD(9444.00) Inc(88.5) Azm(88.3) TVD(6946.46) DLS(1.8)
#99 MD(9540.00) Inc(89.0) Azm(89.1) TVD(6948.55) DLS(1.0)
#100 MD(9636.00) Inc(90.4) Azm(90.4) TVD(6949.05) DLS(2.0)
#101 MD(9731.00) Inc(90.0) Azm(89.5) TVD(6948.72) DLS(1.0)
#102 MD(9827.00) Inc(90.7) Azm(89.1) TVD(6948.13) DLS(0.8)
#103 MD(9923.00) Inc(90.7) Azm(88.4) TVD(6946.96) DLS(0.7)
#104 MD(10018.00) Inc(91.1) Azm(90.7) TVD(6945.47) DLS(2.5)
#105 MD(10114.00) Inc(91.8) Azm(90.0) TVD(6943.04) DLS(1.0)
#106 MD(10209.00) Inc(92.3) Azm(89.7) TVD(6939.64) DLS(0.6)
#107 MD(10305.00) Inc(93.1) Azm(89.3) TVD(6935.12) DLS(0.9)
#108 MD(10401.00) Inc(91.5) Azm(90.0) TVD(6931.27) DLS(1.8)

#109 MD(10497.00) Inc(92.0) Azm(90.2) TVD(6928.34)
DLS(0.6)

#110 MD(10593.00) Inc(90.5) Azm(92.0) TVD(6926.24)
DLS(2.4)

#111 MD(10688.00) Inc(90.5) Azm(91.4) TVD(6925.41)
DLS(0.6)

#112 MD(10784.00) Inc(90.5) Azm(90.2) TVD(6924.57)
DLS(1.2)

#113 MD(10880.00) Inc(91.2) Azm(89.5) TVD(6923.15)
DLS(1.0)

#114 MD(10976.00) Inc(91.4) Azm(90.0) TVD(6920.97)
DLS(0.6)

#115 MD(11072.00) Inc(89.9) Azm(88.8) TVD(6919.88)
DLS(2.0)

#116 MD(11167.00) Inc(90.1) Azm(87.6) TVD(6919.88)
DLS(1.3)

#117 MD(11262.00) Inc(90.8) Azm(90.2) TVD(6919.14)
DLS(2.8)

#118 MD(11358.00) Inc(91.4) Azm(90.7) TVD(6917.29)
DLS(0.8)

#119 MD(11453.00) Inc(92.2) Azm(90.2) TVD(6914.31)
DLS(1.0)

#120 MD(11549.00) Inc(90.0) Azm(91.1) TVD(6912.47)
DLS(2.5)

#121 MD(11645.00) Inc(90.6) Azm(90.7) TVD(6911.96)
DLS(0.8)

#122 MD(11740.00) Inc(89.6) Azm(90.4) TVD(6911.80)
DLS(1.1)

#123 MD(11836.00) Inc(90.3) Azm(90.2) TVD(6911.88)
DLS(0.8)

#124 MD(11931.00) Inc(91.3) Azm(89.5) TVD(6910.56)
DLS(1.3)

#125 MD(12027.00) Inc(90.7) Azm(90.4) TVD(6908.88)
DLS(1.1)

#126 MD(12122.00) Inc(89.5) Azm(90.4) TVD(6908.71)
DLS(1.3)

#127 MD(12218.00) Inc(90.4) Azm(90.4) TVD(6908.80)
DLS(0.9)

#128 MD(12314.00) Inc(91.1) Azm(90.2) TVD(6907.54)
DLS(0.8)

#129 MD(12410.00) Inc(89.5) Azm(90.0) TVD(6907.04)
DLS(1.7)

#130 MD(12505.00) Inc(89.7) Azm(89.7) TVD(6907.70)
DLS(0.4)

#131 MD(12600.00) Inc(90.1) Azm(88.6) TVD(6907.87)
DLS(1.2)

#132 MD(12696.00) Inc(91.6) Azm(88.1) TVD(6906.44)
DLS(1.6)

#133 MD(12792.00) Inc(90.2) Azm(89.0) TVD(6904.94)
DLS(1.7)

#134 MD(12887.00) Inc(89.4) Azm(90.4) TVD(6905.27)
DLS(1.7)

#135 MD(12983.00) Inc(90.6) Azm(89.7) TVD(6905.27)
DLS(1.4)

#136 MD(13078.00) Inc(88.6) Azm(89.5) TVD(6905.93)
DLS(2.1)

#137 MD(13173.00) Inc(89.2) Azm(89.5) TVD(6907.75)
DLS(0.6)

#138 MD(13268.00) Inc(90.9) Azm(90.9) TVD(6907.67)
DLS(2.3)

#139 MD(13364.00) Inc(89.0) Azm(91.1) TVD(6907.76)
DLS(2.0)

#140 MD(13459.00) Inc(89.7) Azm(90.7) TVD(6908.83)
DLS(0.8)

#141 MD(13554.00) Inc(90.8) Azm(91.6) TVD(6908.42)
DLS(1.5)

#142 MD(13649.00) Inc(89.3) Azm(92.3) TVD(6908.34)
DLS(1.7)

#143 MD(13745.00) Inc(89.5) Azm(91.8) TVD(6909.34)
DLS(0.6)

#144 MD(13841.00) Inc(90.2) Azm(91.8) TVD(6909.59)
DLS(0.7)

#145 MD(13937.00) Inc(91.3) Azm(88.6) TVD(6908.34)
DLS(3.5)

#146 MD(14032.00) Inc(89.6) Azm(89.0) TVD(6907.59)
DLS(1.8)

#147 MD(14114.00) Inc(91.0) Azm(87.6) TVD(6907.16)
DLS(2.4)

#148 MD(14210.00) Inc(91.7) Azm(86.7) TVD(6904.90)
DLS(1.2)

#149 MD(14276.00) Inc(92.6) Azm(86.5) TVD(6902.42)
DLS(1.4)