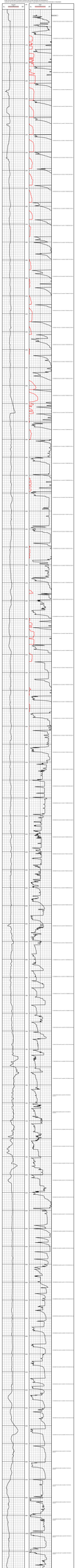

BEF WEST 16

MD
2":100'

Company: Petro Operating Company LLC
Well Name: BEF West 17
API:
County/Parish: Adams
State: CO
Country: USA
Job number: TRUE33
Field: Wattenburg
Rig Id: True 33
Survey Company: Ensign
Operator: Petro Operating Company LLC
Company Man: Mark Stoner
Daylight DD: Breven Williams
Night DD: Tyler Batchelder
Daylight MWD: Justin Klatt
Night MWD: Cameron MacDonald

Log measurements: Gamma
Depth measured from: 1568 ft
Maximum temperature: 176

	Depth	Date
Start:	0 ft	1-22-2019
End:	12267 ft	1-26-2019

Casing	Depth	Size
Surface:	1568 ft	9 5/8"
Intermediate:		

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

Elevations
KB: 27 ft
GL: 5049 ft
DF: 5076 ft

Run	Bit Size	Offsets Gamma	Offsets Survey	Depths Start	Depths End	Dates Start	Dates End
1	8.5"	62.77 ft	57.94 ft	0 ft	12267 ft	1-22-2019	1-26-2019
2							
3							
4							
5							
6							
7							
8							
9							
10							

Ensign 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.

Gamma
API
0.0
300.0
300.0
600.0
MD
ROP
0
0.0
500.0
500.0
1000.0
1600
1700
1800
1900
2000
2100
2200
2300
2400
2500
2600
2700
2800
2900
3000
3100
3200
3300
3400
3500
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4000
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8600
8700
8800
8900
9000
9100
9200
9300
9400
9500
9600
9700
9800
9900
10000
10100
10200
10300
10400
10500
Casing Shoe
#16 MD(1570.00) Inc(0.8) Azm(53.6) TVD(1569.81) DLS(0.9)
#17 MD(1665.00) Inc(2.2) Azm(62.0) TVD(1664.78) DLS(1.5)
#18 MD(1760.00) Inc(4.9) Azm(47.6) TVD(1759.59) DLS(3.0)
#19 MD(1855.00) Inc(6.2) Azm(37.4) TVD(1854.14) DLS(1.7)
#20 MD(1950.00) Inc(7.3) Azm(30.0) TVD(1948.49) DLS(1.5)
#21 MD(2044.00) Inc(8.2) Azm(33.9) TVD(2041.63) DLS(1.1)
#22 MD(2139.00) Inc(10.1) Azm(30.7) TVD(2135.41) DLS(2.1)
#23 MD(2234.00) Inc(11.4) Azm(35.1) TVD(2228.75) DLS(1.6)
#24 MD(2329.00) Inc(12.6) Azm(33.6) TVD(2321.67) DLS(1.3)
#25 MD(2423.00) Inc(12.2) Azm(31.3) TVD(2413.48) DLS(0.7)
#26 MD(2518.00) Inc(11.5) Azm(29.0) TVD(2506.45) DLS(0.9)
#27 MD(2613.00) Inc(11.4) Azm(36.5) TVD(2599.57) DLS(1.6)
#28 MD(2708.00) Inc(10.7) Azm(37.1) TVD(2692.80) DLS(0.7)
#29 MD(2803.00) Inc(12.6) Azm(36.0) TVD(2785.84) DLS(2.0)
#30 MD(2897.00) Inc(12.1) Azm(33.6) TVD(2877.67) DLS(0.8)
#31 MD(2992.00) Inc(13.9) Azm(36.9) TVD(2970.23) DLS(2.0)
#32 MD(3087.00) Inc(13.3) Azm(34.8) TVD(3062.57) DLS(0.8)
#33 MD(3182.00) Inc(12.3) Azm(34.3) TVD(3155.21) DLS(1.1)
#34 MD(3277.00) Inc(11.7) Azm(33.9) TVD(3248.13) DLS(0.6)
#35 MD(3372.00) Inc(13.2) Azm(32.9) TVD(3340.89) DLS(1.6)
#36 MD(3467.00) Inc(11.6) Azm(33.2) TVD(3433.67) DLS(1.7)
#37 MD(3561.00) Inc(13.5) Azm(35.7) TVD(3525.42) DLS(2.1)
#38 MD(3656.00) Inc(12.4) Azm(34.6) TVD(3618.01) DLS(1.2)
#39 MD(3751.00) Inc(11.6) Azm(33.2) TVD(3710.93) DLS(0.9)
#40 MD(3846.00) Inc(12.4) Azm(40.2) TVD(3803.86) DLS(1.7)
#41 MD(3940.00) Inc(11.2) Azm(38.1) TVD(3895.87) DLS(1.4)
#42 MD(4034.00) Inc(12.4) Azm(40.1) TVD(3987.88) DLS(1.3)
#43 MD(4129.00) Inc(11.1) Azm(42.5) TVD(4080.89) DLS(1.5)
#44 MD(4224.00) Inc(11.9) Azm(40.8) TVD(4173.98) DLS(0.9)
#45 MD(4319.00) Inc(10.8) Azm(38.7) TVD(4267.12) DLS(1.2)
#46 MD(4414.00) Inc(12.8) Azm(41.8) TVD(4360.11) DLS(2.2)
#47 MD(4509.00) Inc(11.9) Azm(39.2) TVD(4452.91) DLS(1.1)
#48 MD(4604.00) Inc(11.5) Azm(38.0) TVD(4545.94) DLS(0.5)
#49 MD(4699.00) Inc(12.3) Azm(38.7) TVD(4638.90) DLS(0.9)
#50 MD(4793.00) Inc(10.6) Azm(36.4) TVD(4731.02) DLS(1.9)
#51 MD(4888.00) Inc(12.4) Azm(37.1) TVD(4824.11) DLS(1.9)
#52 MD(4983.00) Inc(11.3) Azm(35.8) TVD(4917.09) DLS(1.2)
#53 MD(5078.00) Inc(13.5) Azm(33.4) TVD(5009.87) DLS(2.4)
#54 MD(5173.00) Inc(12.4) Azm(34.4) TVD(5102.45) DLS(1.2)
#55 MD(5268.00) Inc(11.6) Azm(34.4) TVD(5195.37) DLS(0.8)
#56 MD(5363.00) Inc(11.6) Azm(32.7) TVD(5288.43) DLS(0.4)
#57 MD(5456.00) Inc(12.1) Azm(33.2) TVD(5379.45) DLS(0.5)
#58 MD(5551.00) Inc(11.2) Azm(32.2) TVD(5472.49) DLS(1.0)
#59 MD(5645.00) Inc(12.8) Azm(36.0) TVD(5564.44) DLS(1.9)
#60 MD(5740.00) Inc(12.3) Azm(35.3) TVD(5657.17) DLS(0.6)
#61 MD(5834.00) Inc(11.9) Azm(35.0) TVD(5749.08) DLS(0.4)
#62 MD(5929.00) Inc(10.7) Azm(33.7) TVD(5842.23) DLS(1.3)
#63 MD(6023.00) Inc(10.0) Azm(35.0) TVD(5934.70) DLS(0.8)
#64 MD(6118.00) Inc(9.0) Azm(32.0) TVD(6028.40) DLS(1.2)
#65 MD(6212.00) Inc(8.5) Azm(32.2) TVD(6121.31) DLS(0.5)
#66 MD(6307.00) Inc(8.1) Azm(30.4) TVD(6215.31) DLS(0.5)
#67 MD(6401.00) Inc(6.1) Azm(26.9) TVD(6308.59) DLS(2.2)
#68 MD(6496.00) Inc(4.5) Azm(40.9) TVD(6403.18) DLS(2.2)
#69 MD(6613.00) Inc(2.5) Azm(43.9) TVD(6519.96) DLS(1.7)
#70 MD(6708.00) Inc(0.4) Azm(33.4) TVD(6614.92) DLS(2.2)
#71 MD(6802.00) Inc(4.1) Azm(275.1) TVD(6708.84) DLS(4.6)
#72 MD(6896.00) Inc(11.4) Azm(274.4) TVD(6801.92) DLS(7.8)
#73 MD(6991.00) Inc(17.3) Azm(273.3) TVD(6893.92) DLS(6.2)
#74 MD(7086.00) Inc(23.0) Azm(270.3) TVD(6983.07) DLS(6.1)
#75 MD(7180.00) Inc(29.1) Azm(270.9) TVD(7067.48) DLS(6.5)
#76 MD(7275.00) Inc(35.3) Azm(271.4) TVD(7147.83) DLS(6.5)
#77 MD(7369.00) Inc(41.2) Azm(268.6) TVD(7221.62) DLS(6.5)
#78 MD(7464.00) Inc(48.7) Azm(266.3) TVD(7288.81) DLS(8.1)
#79 MD(7559.00) Inc(60.1) Azm(270.0) TVD(7344.04) DLS(12.4)
#80 MD(7653.00) Inc(69.8) Azm(271.9) TVD(7383.79) DLS(10.5)
#81 MD(7748.00) Inc(76.2) Azm(269.8) TVD(7411.56) DLS(7.1)
#82 MD(7842.00) Inc(81.5) Azm(268.8) TVD(7429.73) DLS(5.7)
#83 MD(7937.00) Inc(86.4) Azm(269.8) TVD(7439.74) DLS(5.3)
#84 MD(8032.00) Inc(88.5) Azm(270.3) TVD(7443.96) DLS(2.3)
#85 MD(8126.00) Inc(90.0) Azm(270.3) TVD(7445.19) DLS(1.6)
#86 MD(8221.00) Inc(90.3) Azm(270.7) TVD(7444.94) DLS(0.5)
#87 MD(8316.00) Inc(89.8) Azm(269.8) TVD(7444.86) DLS(1.1)
#88 MD(8411.00) Inc(89.3) Azm(269.6) TVD(7445.61) DLS(0.6)
#89 MD(8505.00) Inc(89.5) Azm(271.2) TVD(7446.59) DLS(1.7)
#90 MD(8600.00) Inc(89.4) Azm(271.2) TVD(7447.50) DLS(0.1)
#91 MD(8694.00) Inc(89.4) Azm(271.9) TVD(7448.49) DLS(0.7)
#92 MD(8789.00) Inc(90.3) Azm(272.8) TVD(7448.74) DLS(1.3)
#93 MD(8884.00) Inc(89.3) Azm(268.4) TVD(7449.07) DLS(4.7)
#94 MD(8979.00) Inc(90.3) Azm(266.8) TVD(7449.40) DLS(2.0)
#95 MD(9073.00) Inc(89.5) Azm(266.3) TVD(7449.56) DLS(1.0)
#96 MD(9168.00) Inc(90.7) Azm(265.4) TVD(7449.40) DLS(1.6)
#97 MD(9262.00) Inc(91.7) Azm(268.1) TVD(7447.43) DLS(3.1)
#98 MD(9357.00) Inc(91.6) Azm(267.5) TVD(7444.69) DLS(0.6)
#99 MD(9451.00) Inc(91.8) Azm(268.8) TVD(7441.91) DLS(1.4)
#100 MD(9545.00) Inc(92.5) Azm(267.9) TVD(7438.38) DLS(1.2)
#101 MD(9640.00) Inc(90.2) Azm(269.5) TVD(7436.14) DLS(2.9)
#102 MD(9734.00) Inc(90.4) Azm(268.2) TVD(7435.65) DLS(1.4)
#103 MD(9829.00) Inc(90.9) Azm(269.6) TVD(7434.57) DLS(1.6)
#104 MD(9924.00) Inc(90.0) Azm(269.6) TVD(7433.82) DLS(0.9)
#105 MD(10018.00) Inc(90.1) Azm(270.9) TVD(7433.74) DLS(1.4)
#106 MD(10113.00) Inc(87.7) Azm(269.6) TVD(7435.57) DLS(2.9)
#107 MD(10207.00) Inc(88.4) Azm(269.6) TVD(7438.77) DLS(0.7)
#108 MD(10302.00) Inc(88.9) Azm(269.5) TVD(7441.00) DLS(0.5)
#109 MD(10397.00) Inc(89.9) Azm(270.0) TVD(7442.00) DLS(1.2)
#110 MD(10492.00) Inc(88.0) Azm(270.2) TVD(7443.74) DLS(2.0)

#111 MD(10587.00) Inc(88.2) Azm(270.2) TVD(7446.89)
DLS(0.2)

#112 MD(10681.00) Inc(88.6) Azm(270.3) TVD(7449.51)
DLS(0.4)

#113 MD(10776.00) Inc(89.1) Azm(270.0) TVD(7451.42)
DLS(0.6)

#114 MD(10871.00) Inc(89.2) Azm(269.5) TVD(7452.83)
DLS(0.5)

#115 MD(10966.00) Inc(89.2) Azm(268.9) TVD(7454.16)
DLS(0.6)

#116 MD(11060.00) Inc(89.2) Azm(270.7) TVD(7455.47)
DLS(1.9)

#117 MD(11155.00) Inc(90.1) Azm(270.5) TVD(7456.05)
DLS(1.0)

#118 MD(11250.00) Inc(89.9) Azm(271.0) TVD(7456.05)
DLS(0.6)

#119 MD(11345.00) Inc(89.0) Azm(271.2) TVD(7456.96)
DLS(1.0)

#120 MD(11440.00) Inc(90.7) Azm(271.9) TVD(7457.21)
DLS(1.9)

#121 MD(11534.00) Inc(89.0) Azm(271.7) TVD(7457.46)
DLS(1.8)

#122 MD(11629.00) Inc(88.1) Azm(271.4) TVD(7459.86)
DLS(1.0)

#123 MD(11724.00) Inc(88.4) Azm(270.7) TVD(7462.76)
DLS(0.8)

#124 MD(11819.00) Inc(89.8) Azm(271.2) TVD(7464.25)
DLS(1.6)

#125 MD(11914.00) Inc(88.4) Azm(271.6) TVD(7465.74)
DLS(1.5)

#126 MD(12008.00) Inc(88.1) Azm(270.9) TVD(7468.62)
DLS(0.8)

#127 MD(12103.00) Inc(88.9) Azm(271.4) TVD(7471.10)
DLS(1.0)

#128 MD(12207.00) Inc(90.0) Azm(271.0) TVD(7472.10)
DLS(1.1)