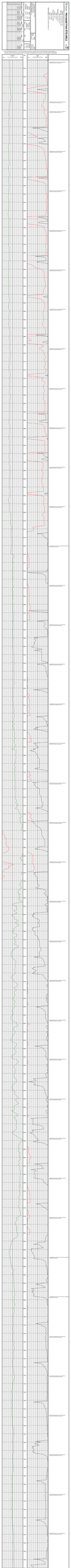

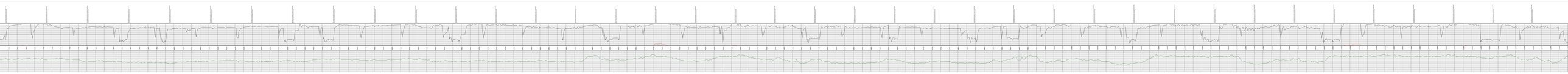

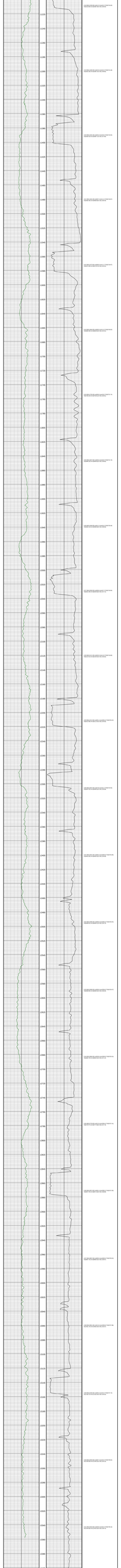

Horsetail Fed 07G-0611

MD
5":100'

Precision Directional Services

Company: Whiting Petroleum Corp.
Well Name: Horsetail Fed 07G-0611
API: 05-123-42117-00
County/Parish: Weld County
State: Colorado
Country: USA
Job number: GC-160020
Field: DJ Basin
Rig Id: Unit 409
Survey Company: Precision Directional Services, Inc.

Log measurements: GR, ROP
Depth measured from:
Maximum temperature: 219

	Depth	**Date**
Start:	0 ft	04/18/2016
End:	13405 ft	04/21/2016

Casing	**Depth**	**Size**
Surface:	2024 ft	9 5/8"
Intermediate:	13405 ft	5 1/2"

Mud Type: WBM
Density: 10.5
Viscosity: 38
Rm: **Rmf:** **Rmc:**

Elevations
KB: 4916 ft
GL: 4895 ft
DF: 21 ft

Run	**Bit Size**	**Offsets**		**Depths**		**Dates**	
		Gamma	**Survey**	**Start**	**End**	**Start**	**End**
1	13 1/2"		57.00 ft	0 ft	2024 ft	4/18/16	4/18/16
2	8 1/2"	34.90 ft	61.00 ft	2024 ft	5224 ft	4/18/16	4/19/16
3	8 1/2"	45.00 ft	58.00 ft	5224 ft	13405 ft	4/19/16	4/21/16
4							
5							
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10							

Precision Directional Services, Inc. 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
ft/hr
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#40 MD(4007.00) Inc(7.7) Azm(200.1) TVD(3973.64) VS(-464.87) N/-S(-467.21) E/-W(-122.47)
#41 MD(4102.00) Inc(6.7) Azm(201.8) TVD(4067.89) VS(-475.95) N/-S(-478.37) E/-W(-126.72)
#42 MD(4125.00) Inc(6.7) Azm(202.1) TVD(4090.73) VS(-478.42) N/-S(-480.87) E/-W(-127.73)
#43 MD(4220.00) Inc(7.8) Azm(200.6) TVD(4184.97) VS(-489.51) N/-S(-492.04) E/-W(-132.09)
#44 MD(4314.00) Inc(7.5) Azm(202.8) TVD(4278.14) VS(-501.02) N/-S(-503.64) E/-W(-136.71)
#45 MD(4409.00) Inc(5.8) Azm(203.6) TVD(4372.50) VS(-511.05) N/-S(-513.74) E/-W(-141.03)
#46 MD(4503.00) Inc(5.9) Azm(193.8) TVD(4466.01) VS(-520.00) N/-S(-522.76) E/-W(-144.07)
#47 MD(4597.00) Inc(5.1) Azm(205.6) TVD(4559.58) VS(-528.39) N/-S(-531.20) E/-W(-147.03)
#48 MD(4691.00) Inc(3.6) Azm(176.8) TVD(4653.32) VS(-535.07) N/-S(-537.91) E/-W(-148.67)
#49 MD(4786.00) Inc(3.2) Azm(177.1) TVD(4748.15) VS(-540.72) N/-S(-543.56) E/-W(-148.36)
#50 MD(4880.00) Inc(1.6) Azm(137.9) TVD(4842.07) VS(-544.36) N/-S(-547.18) E/-W(-147.35)
#51 MD(4974.00) Inc(1.6) Azm(56.7) TVD(4936.04) VS(-544.64) N/-S(-547.42) E/-W(-145.35)
#52 MD(5068.00) Inc(1.4) Azm(56.0) TVD(5030.01) VS(-543.29) N/-S(-546.04) E/-W(-143.28)
#53 MD(5162.00) Inc(6.2) Azm(0.3) TVD(5123.79) VS(-537.56) N/-S(-540.29) E/-W(-142.28)
#54 MD(5256.00) Inc(19.4) Azm(8.9) TVD(5215.26) VS(-517.02) N/-S(-519.69) E/-W(-139.84)
#55 MD(5350.00) Inc(29.2) Azm(4.8) TVD(5300.85) VS(-478.77) N/-S(-481.36) E/-W(-135.51)
#56 MD(5444.00) Inc(36.3) Azm(9.7) TVD(5379.91) VS(-428.61) N/-S(-431.07) E/-W(-128.89)
#57 MD(5539.00) Inc(43.3) Azm(5.3) TVD(5452.91) VS(-368.58) N/-S(-370.88) E/-W(-121.13)
#58 MD(5633.00) Inc(44.2) Azm(3.6) TVD(5520.85) VS(-303.91) N/-S(-306.11) E/-W(-116.11)
#59 MD(5728.00) Inc(50.4) Azm(358.7) TVD(5585.27) VS(-234.23) N/-S(-236.39) E/-W(-114.87)
#60 MD(5822.00) Inc(59.9) Azm(356.2) TVD(5638.94) VS(-157.22) N/-S(-159.43) E/-W(-118.39)
#61 MD(5916.00) Inc(70.0) Azm(356.4) TVD(5678.66) VS(-72.25) N/-S(-74.55) E/-W(-123.87)
#62 MD(6010.00) Inc(75.3) Azm(355.0) TVD(5706.62) VS(17.31) N/-S(14.90) E/-W(-130.64)
#63 MD(6105.00) Inc(83.5) Azm(357.8) TVD(5724.05) VS(110.52) N/-S(108.01) E/-W(-136.53)
#64 MD(6199.00) Inc(89.3) Azm(359.9) TVD(5729.93) VS(204.29) N/-S(201.76) E/-W(-138.41)
#65 MD(6294.00) Inc(90.7) Azm(359.8) TVD(5729.88) VS(299.27) N/-S(296.76) E/-W(-138.63)
#66 MD(6387.00) Inc(92.2) Azm(359.9) TVD(5727.46) VS(392.23) N/-S(389.72) E/-W(-138.92)
#67 MD(6482.00) Inc(93.3) Azm(358.2) TVD(5722.83) VS(487.11) N/-S(484.59) E/-W(-140.52)
#68 MD(6576.00) Inc(90.6) Azm(358.5) TVD(5719.57) VS(581.04) N/-S(578.49) E/-W(-143.26)
#69 MD(6671.00) Inc(88.2) Azm(358.8) TVD(5720.53) VS(676.03) N/-S(673.45) E/-W(-145.55)
#70 MD(6765.00) Inc(87.9) Azm(358.5) TVD(5723.73) VS(769.97) N/-S(767.37) E/-W(-147.81)
#71 MD(6860.00) Inc(89.7) Azm(0.9) TVD(5725.74) VS(864.93) N/-S(862.33) E/-W(-148.29)
#72 MD(6954.00) Inc(88.3) Azm(1.4) TVD(5727.44) VS(958.84) N/-S(956.30) E/-W(-146.40)
#73 MD(7049.00) Inc(89.3) Azm(2.0) TVD(5729.50) VS(1053.71) N/-S(1051.23) E/-W(-143.62)
#74 MD(7143.00) Inc(89.5) Azm(1.7) TVD(5730.52) VS(1147.58) N/-S(1145.18) E/-W(-140.58)
#75 MD(7237.00) Inc(90.3) Azm(1.4) TVD(5730.65) VS(1241.48) N/-S(1239.14) E/-W(-138.00)
#76 MD(7331.00) Inc(89.3) Azm(1.7) TVD(5730.94) VS(1335.38) N/-S(1333.10) E/-W(-135.41)
#77 MD(7426.00) Inc(90.1) Azm(2.2) TVD(5731.48) VS(1430.24) N/-S(1428.04) E/-W(-132.15)
#78 MD(7519.00) Inc(91.1) Azm(3.0) TVD(5730.51) VS(1523.04) N/-S(1520.94) E/-W(-127.87)

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#79 MD(7614.00) Inc(90.2) Azm(0.9) TVD(5729.38) VS(1617.90) N/-S(1615.87) E/-W(-124.58)
#80 MD(7708.00) Inc(90.6) Azm(0.6) TVD(5728.70) VS(1711.85) N/-S(1709.86) E/-W(-123.31)
#81 MD(7802.00) Inc(91.0) Azm(359.6) TVD(5727.38) VS(1805.81) N/-S(1803.85) E/-W(-123.12)
#82 MD(7896.00) Inc(90.0) Azm(358.2) TVD(5726.55) VS(1899.81) N/-S(1897.82) E/-W(-124.93)
#83 MD(7991.00) Inc(89.3) Azm(357.3) TVD(5727.13) VS(1994.78) N/-S(1992.75) E/-W(-128.62)
#84 MD(8085.00) Inc(89.6) Azm(357.0) TVD(5728.01) VS(2088.74) N/-S(2086.63) E/-W(-133.24)
#85 MD(8179.00) Inc(90.0) Azm(356.1) TVD(5728.32) VS(2182.65) N/-S(2180.46) E/-W(-138.84)
#86 MD(8273.00) Inc(89.2) Azm(357.5) TVD(5729.01) VS(2276.59) N/-S(2274.31) E/-W(-144.03)
#87 MD(8367.00) Inc(88.9) Azm(360.0) TVD(5730.63) VS(2370.56) N/-S(2368.27) E/-W(-146.06)
#88 MD(8461.00) Inc(90.1) Azm(0.2) TVD(5731.46) VS(2464.54) N/-S(2462.26) E/-W(-145.95)
#89 MD(8556.00) Inc(90.9) Azm(359.8) TVD(5730.62) VS(2559.52) N/-S(2557.26) E/-W(-145.97)
#90 MD(8648.00) Inc(89.8) Azm(0.8) TVD(5730.09) VS(2651.49) N/-S(2649.25) E/-W(-145.45)
#91 MD(8739.00) Inc(89.5) Azm(0.3) TVD(5730.66) VS(2742.45) N/-S(2740.24) E/-W(-144.54)
#92 MD(8831.00) Inc(90.5) Azm(0.1) TVD(5730.67) VS(2834.43) N/-S(2832.24) E/-W(-144.19)
#93 MD(8922.00) Inc(91.6) Azm(359.9) TVD(5728.99) VS(2925.39) N/-S(2923.23) E/-W(-144.16)
#94 MD(9014.00) Inc(89.4) Azm(1.5) TVD(5728.17) VS(3017.34) N/-S(3015.21) E/-W(-143.04)
#95 MD(9106.00) Inc(89.0) Azm(1.1) TVD(5729.48) VS(3109.25) N/-S(3107.17) E/-W(-140.93)
#96 MD(9198.00) Inc(90.1) Azm(1.5) TVD(5730.24) VS(3201.16) N/-S(3199.14) E/-W(-138.80)
#97 MD(9289.00) Inc(90.8) Azm(1.5) TVD(5729.50) VS(3292.07) N/-S(3290.11) E/-W(-136.38)
#98 MD(9380.00) Inc(91.5) Azm(0.9) TVD(5727.66) VS(3382.98) N/-S(3381.07) E/-W(-134.42)
#99 MD(9472.00) Inc(90.1) Azm(1.9) TVD(5726.42) VS(3474.88) N/-S(3473.03) E/-W(-132.13)
#100 MD(9563.00) Inc(90.3) Azm(2.0) TVD(5726.17) VS(3565.75) N/-S(3563.97) E/-W(-128.99)
#101 MD(9655.00) Inc(89.6) Azm(2.4) TVD(5726.31) VS(3657.59) N/-S(3655.90) E/-W(-125.39)
#102 MD(9746.00) Inc(90.0) Azm(2.3) TVD(5726.67) VS(3748.43) N/-S(3746.82) E/-W(-121.66)
#103 MD(9838.00) Inc(89.7) Azm(1.1) TVD(5726.92) VS(3840.32) N/-S(3838.78) E/-W(-118.94)
#104 MD(9929.00) Inc(88.2) Azm(359.5) TVD(5728.63) VS(3931.28) N/-S(3929.76) E/-W(-118.46)
#105 MD(10021.00) Inc(87.8) Azm(358.8) TVD(5731.87) VS(4023.22) N/-S(4021.69) E/-W(-119.85)
#106 MD(10113.00) Inc(88.0) Azm(358.1) TVD(5735.21) VS(4115.15) N/-S(4113.60) E/-W(-122.28)
#107 MD(10205.00) Inc(89.1) Azm(358.5) TVD(5737.49) VS(4207.12) N/-S(4205.53) E/-W(-124.98)
#108 MD(10297.00) Inc(89.4) Azm(357.8) TVD(5738.67) VS(4299.10) N/-S(4297.47) E/-W(-127.94)
#109 MD(10389.00) Inc(91.1) Azm(359.4) TVD(5738.28) VS(4391.09) N/-S(4389.44) E/-W(-130.14)
#110 MD(10481.00) Inc(91.7) Azm(359.2) TVD(5736.03) VS(4483.06) N/-S(4481.40) E/-W(-131.23)
#111 MD(10573.00) Inc(92.8) Azm(358.7) TVD(5732.43) VS(4574.99) N/-S(4573.32) E/-W(-132.90)
#112 MD(10664.00) Inc(90.6) Azm(360.0) TVD(5729.75) VS(4665.94) N/-S(4664.26) E/-W(-133.94)
#113 MD(10755.00) Inc(90.3) Azm(359.7) TVD(5729.05) VS(4756.93) N/-S(4755.26) E/-W(-134.20)
#114 MD(10847.00) Inc(90.0) Azm(357.2) TVD(5728.82) VS(4848.92) N/-S(4847.22) E/-W(-136.68)
#115 MD(10938.00) Inc(89.5) Azm(354.9) TVD(5729.23) VS(4939.80) N/-S(4938.00) E/-W(-142.89)
#116 MD(11029.00) Inc(91.1) Azm(359.2) TVD(5728.77) VS(5030.72) N/-S(5028.86) E/-W(-147.55)
#117 MD(11118.00) Inc(91.9) Azm(359.1) TVD(5726.46) VS(5119.69) N/-S(5117.81) E/-W(-148.87)

#118 MD(11209.00) Inc(91.2) Azm(0.2) TVD(5724.00)
VS(5210.65) N/-S(5208.78) E/-W(-149.40)

#119 MD(11300.00) Inc(92.0) Azm(0.3) TVD(5721.46)
VS(5301.59) N/-S(5299.74) E/-W(-148.95)

#120 MD(11391.00) Inc(90.4) Azm(0.9) TVD(5719.55)
VS(5392.53) N/-S(5390.71) E/-W(-147.95)

#121 MD(11481.00) Inc(90.7) Azm(1.2) TVD(5718.67)
VS(5482.46) N/-S(5480.69) E/-W(-146.29)

#122 MD(11573.00) Inc(88.9) Azm(1.1) TVD(5718.97)
VS(5574.39) N/-S(5572.67) E/-W(-144.42)

#123 MD(11664.00) Inc(89.0) Azm(1.3) TVD(5720.62)
VS(5665.30) N/-S(5663.63) E/-W(-142.52)

#124 MD(11755.00) Inc(89.6) Azm(0.8) TVD(5721.74)
VS(5756.23) N/-S(5754.61) E/-W(-140.91)

#125 MD(11847.00) Inc(90.5) Azm(0.9) TVD(5721.70)
VS(5848.18) N/-S(5846.60) E/-W(-139.60)

#126 MD(11939.00) Inc(91.1) Azm(0.4) TVD(5720.46)
VS(5940.13) N/-S(5938.59) E/-W(-138.59)

#127 MD(12030.00) Inc(89.6) Azm(0.7) TVD(5719.94)
VS(6031.09) N/-S(6029.58) E/-W(-137.72)

#128 MD(12121.00) Inc(90.5) Azm(1.9) TVD(5719.90)
VS(6122.01) N/-S(6120.55) E/-W(-135.64)

#129 MD(12212.00) Inc(89.1) Azm(359.4) TVD(5720.22)
VS(6212.96) N/-S(6211.54) E/-W(-134.63)

#130 MD(12307.00) Inc(87.9) Azm(0.1) TVD(5722.65)
VS(6307.92) N/-S(6306.50) E/-W(-135.08)

#131 MD(12401.00) Inc(88.2) Azm(359.9) TVD(5725.85)
VS(6401.85) N/-S(6400.45) E/-W(-135.08)

#132 MD(12495.00) Inc(88.9) Azm(359.3) TVD(5728.25)
VS(6495.81) N/-S(6494.41) E/-W(-135.70)

#133 MD(12590.00) Inc(89.6) Azm(359.6) TVD(5729.47)
VS(6590.80) N/-S(6589.40) E/-W(-136.63)

#134 MD(12684.00) Inc(90.8) Azm(359.8) TVD(5729.15)
VS(6684.79) N/-S(6683.40) E/-W(-137.12)

#135 MD(12778.00) Inc(91.3) Azm(359.4) TVD(5727.41)
VS(6778.77) N/-S(6777.38) E/-W(-137.73)

#136 MD(12872.00) Inc(89.1) Azm(359.2) TVD(5727.05)
VS(6872.76) N/-S(6871.36) E/-W(-138.89)

#137 MD(12967.00) Inc(89.5) Azm(359.5) TVD(5728.24)
VS(6967.75) N/-S(6966.35) E/-W(-139.97)

#138 MD(13061.00) Inc(91.0) Azm(359.8) TVD(5727.86)
VS(7061.74) N/-S(7060.34) E/-W(-140.57)

#139 MD(13156.00) Inc(89.2) Azm(0.3) TVD(5727.73)
VS(7156.72) N/-S(7155.34) E/-W(-140.54)

#140 MD(13250.00) Inc(89.7) Azm(0.3) TVD(5728.64)
VS(7250.69) N/-S(7249.33) E/-W(-140.10)

#141 MD(13344.00) Inc(90.9) Azm(0.2) TVD(5728.16)
VS(7344.66) N/-S(7343.33) E/-W(-139.75)