ENSIGN Directional Services

Jessica LC27-775

MD
2":100’

Company: Noble Energy
Well Name: Jessica LC27-775
API:
Rig Id: H&P 326
State: Colorado
County/Parish: Weld
Country: USA
Survey Company: ENSIGN Directional
Job number: HP326-207-7
DD1 Zach Gentry
DD2 Tyler Bachelder
DD3 Colby Hansen
MWD1 Andrew Demrow
MWD2 Nick Jones

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

	Depth	Date
Start:	638 ft	04-11-2015
End:	ft	

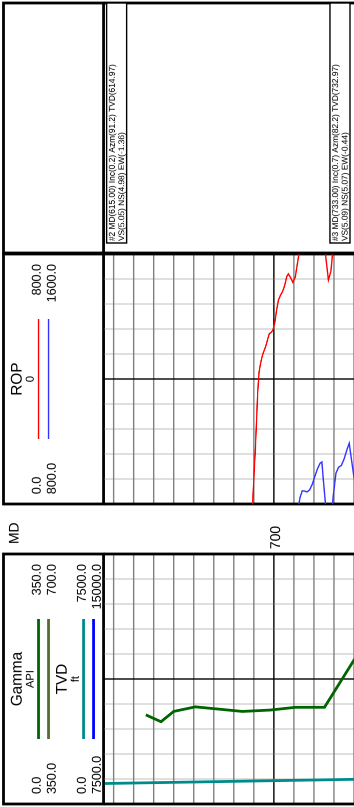
Casing	Depth	Size
Surface:	628	9 5/8
Intermediate:	6419	7

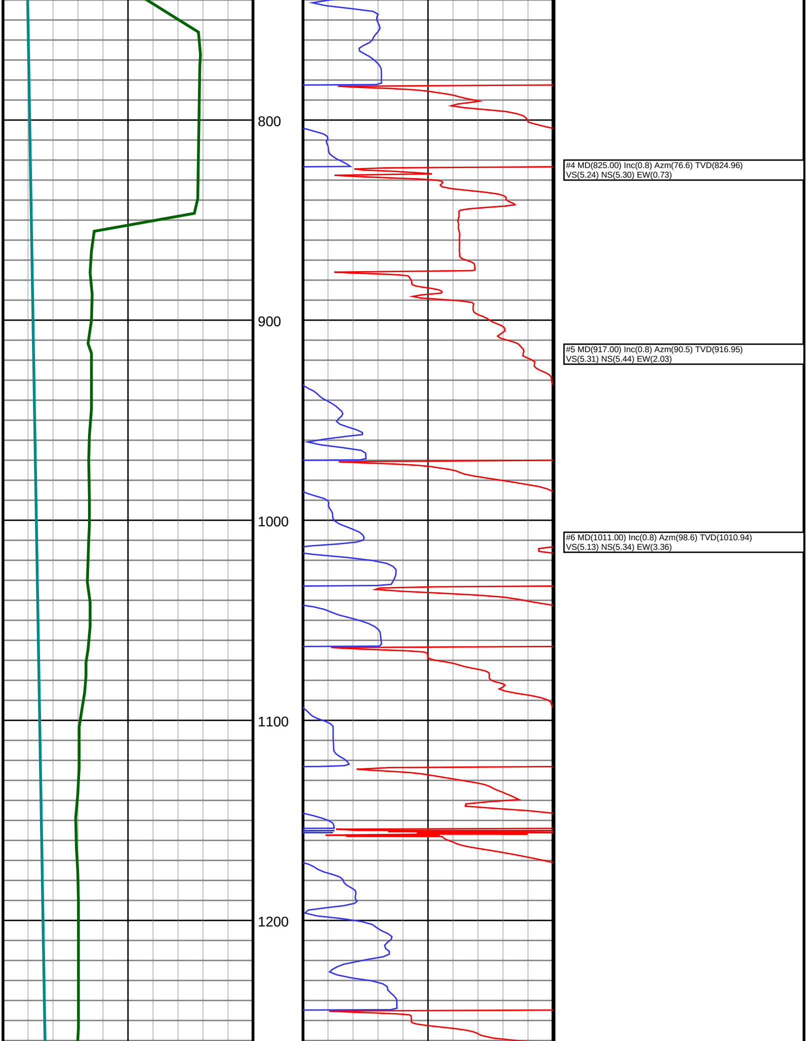
Mud Type:
Density:
Viscosity:
Rm: **Rmf:** **Rmc:**

Elevations
KB: 30
GL: 4695
DF: 4725

		Offsets		Depths		Dates	
Run	**Bit Size**	**Gamma**	**Survey**	**Start**	**End**	**Start**	**End**
1	8.75	53.35	49.98	638	6429	04-11-2015	04-12-2015
2	6.125	63.64	59.64	6429		04-14-2015	
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.

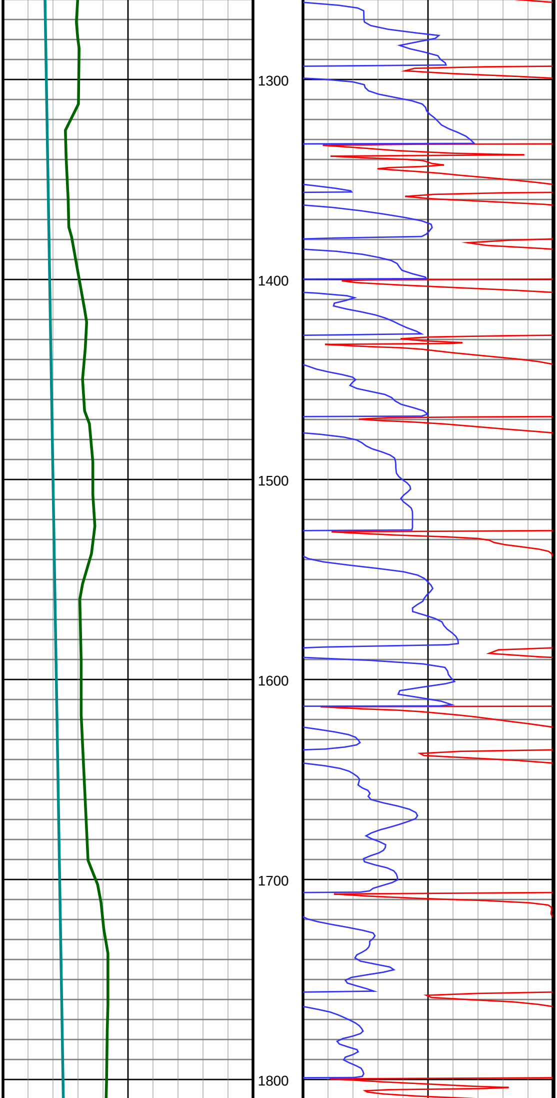




#4 MD(825.00) Inc(0.8) Azm(76.6) TVD(824.96)
VS(5.24) NS(5.30) EW(0.73)

#5 MD(917.00) Inc(0.8) Azm(90.5) TVD(916.95)
VS(5.31) NS(5.44) EW(2.03)

#6 MD(1011.00) Inc(0.8) Azm(98.6) TVD(1010.94)
VS(5.13) NS(5.34) EW(3.36)



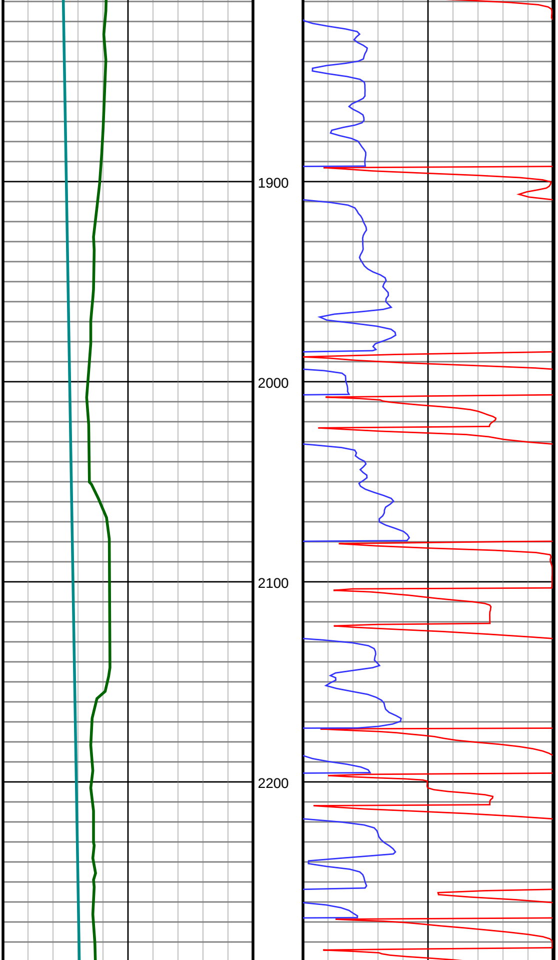
#7 MD(1288.00) Inc(0.3) Azm(88.5) TVD(1287.93)
VS(4.72) NS(5.07) EW(5.87)

#8 MD(1381.00) Inc(0.4) Azm(132.1) TVD(1380.92)
VS(4.48) NS(4.85) EW(6.32)

#9 MD(1473.00) Inc(0.2) Azm(359.7) TVD(1472.92)
VS(4.39) NS(4.77) EW(6.56)

#10 MD(1566.00) Inc(0.6) Azm(24.2) TVD(1565.92)
VS(4.97) NS(5.37) EW(6.77)

#11 MD(1659.00) Inc(0.6) Azm(86.3) TVD(1658.92)
VS(5.42) NS(5.86) EW(7.47)

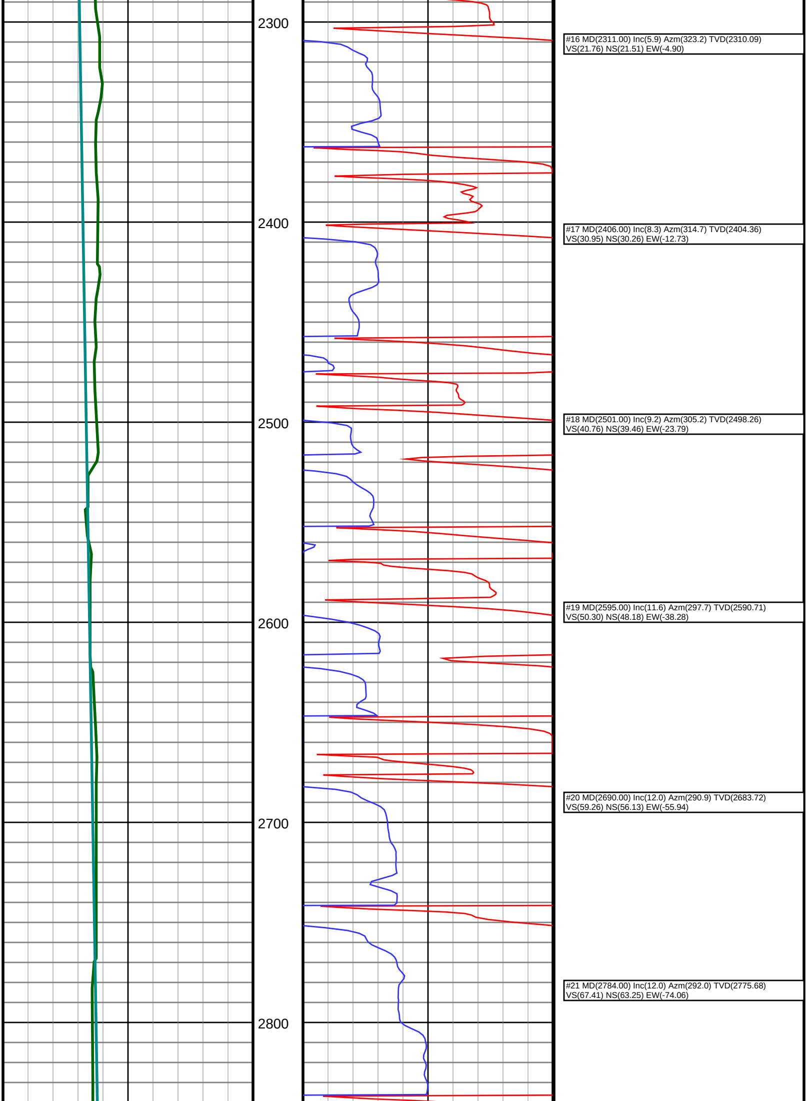


#12 MD(1845.00) Inc(0.4) Azm(104.6) TVD(1844.91)
VS(5.21) NS(5.75) EW(9.17)

#13 MD(1937.00) Inc(0.1) Azm(76.0) TVD(1936.91)
VS(5.12) NS(5.68) EW(9.61)

#14 MD(2030.00) Inc(1.5) Azm(302.1) TVD(2029.90)
VS(5.85) NS(6.36) EW(8.68)

#15 MD(2122.00) Inc(3.9) Azm(314.9) TVD(2121.79)
VS(8.86) NS(9.19) EW(5.47)



#16 MD(2311.00) Inc(5.9) Azm(323.2) TVD(2310.09)
VS(21.76) NS(21.51) EW(-4.90)

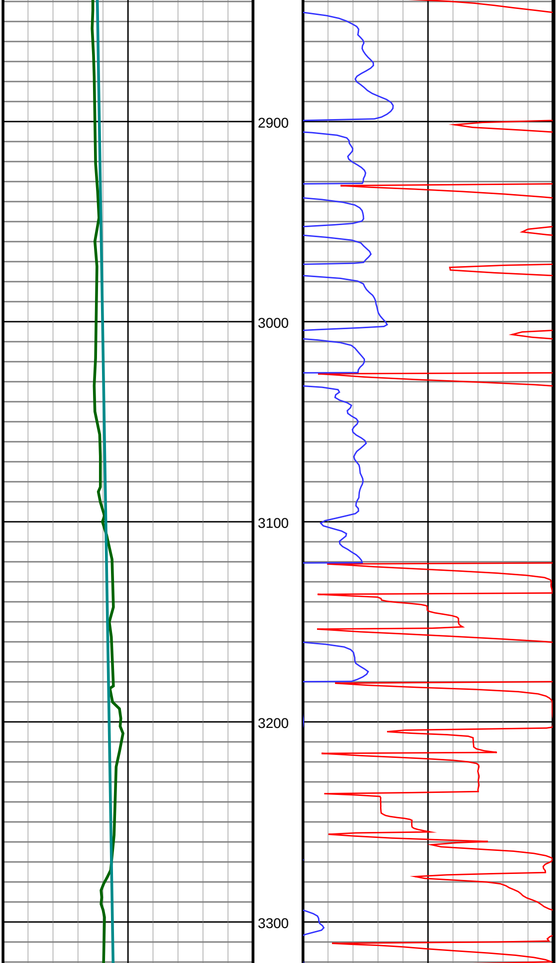
#17 MD(2406.00) Inc(8.3) Azm(314.7) TVD(2404.36)
VS(30.95) NS(30.26) EW(-12.73)

#18 MD(2501.00) Inc(9.2) Azm(305.2) TVD(2498.26)
VS(40.76) NS(39.46) EW(-23.79)

#19 MD(2595.00) Inc(11.6) Azm(297.7) TVD(2590.71)
VS(50.30) NS(48.18) EW(-38.28)

#20 MD(2690.00) Inc(12.0) Azm(290.9) TVD(2683.72)
VS(59.26) NS(56.13) EW(-55.94)

#21 MD(2784.00) Inc(12.0) Azm(292.0) TVD(2775.68)
VS(67.41) NS(63.25) EW(-74.06)



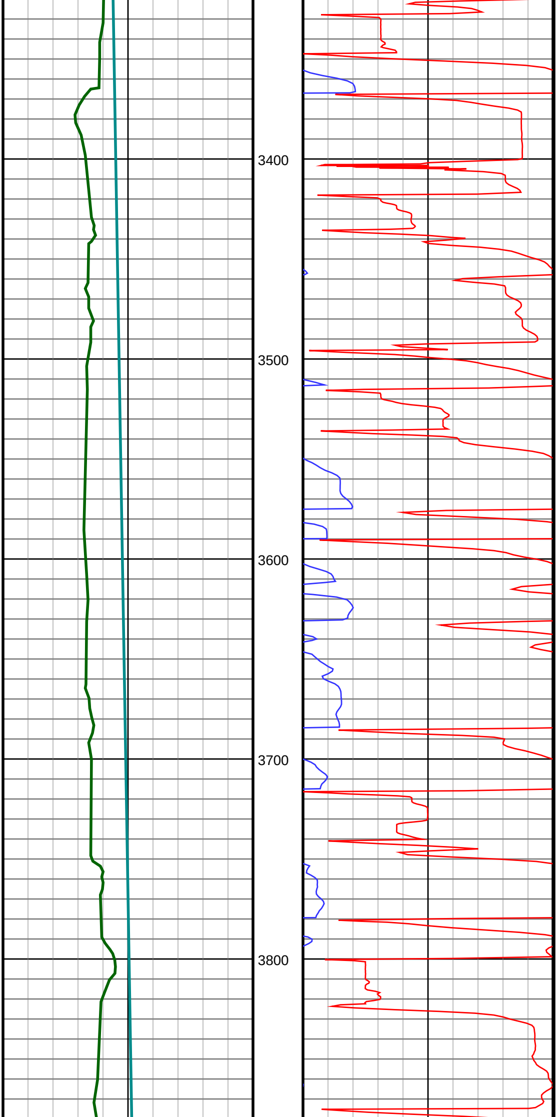
#22 MD(2879.00) Inc(11.7) Azm(290.8) TVD(2868.65)
VS(75.55) NS(70.36) EW(-92.23)

#23 MD(2974.00) Inc(11.4) Azm(290.8) TVD(2961.72)
VS(83.33) NS(77.12) EW(-110.07)

#24 MD(3068.00) Inc(11.3) Azm(289.3) TVD(3053.87)
VS(90.67) NS(83.47) EW(-127.47)

#25 MD(3163.00) Inc(9.6) Azm(283.2) TVD(3147.30)
VS(96.50) NS(88.36) EW(-143.95)

#26 MD(3258.00) Inc(8.1) Azm(274.6) TVD(3241.17)
VS(99.66) NS(90.70) EW(-158.35)



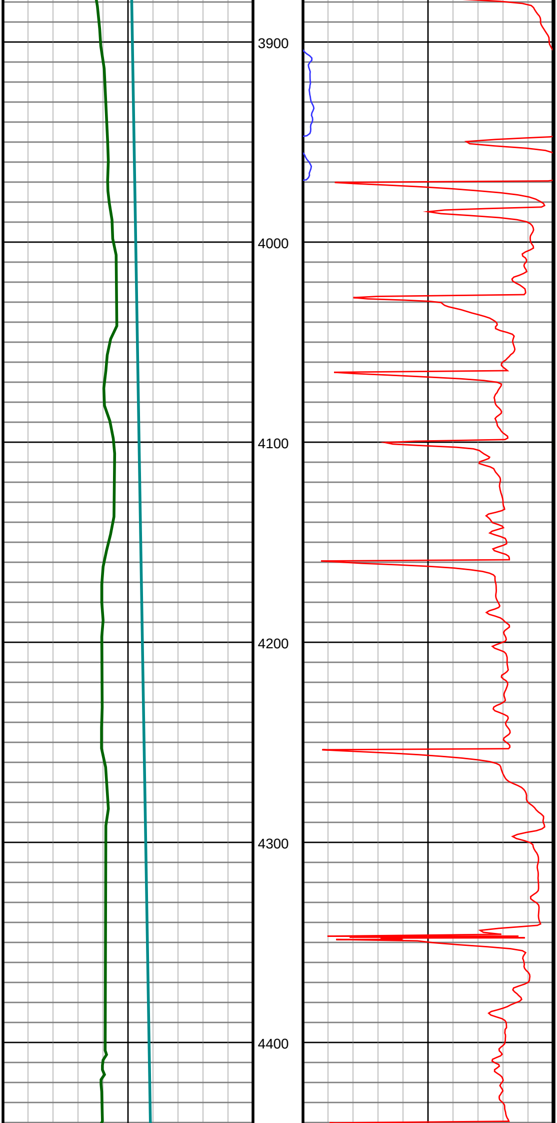
#27 MD(3352.00) Inc(5.9) Azm(261.9) TVD(3334.46)
VS(100.17) NS(90.54) EW(-169.78)

#28 MD(3446.00) Inc(4.2) Azm(253.8) TVD(3428.10)
VS(99.00) NS(88.91) EW(-177.88)

#29 MD(3540.00) Inc(1.3) Azm(243.7) TVD(3521.98)
VS(97.82) NS(87.48) EW(-182.14)

#30 MD(3635.00) Inc(1.0) Azm(236.8) TVD(3616.96)
VS(96.97) NS(86.53) EW(-183.82)

#31 MD(3730.00) Inc(2.1) Azm(275.7) TVD(3711.92)
VS(96.83) NS(86.25) EW(-186.30)

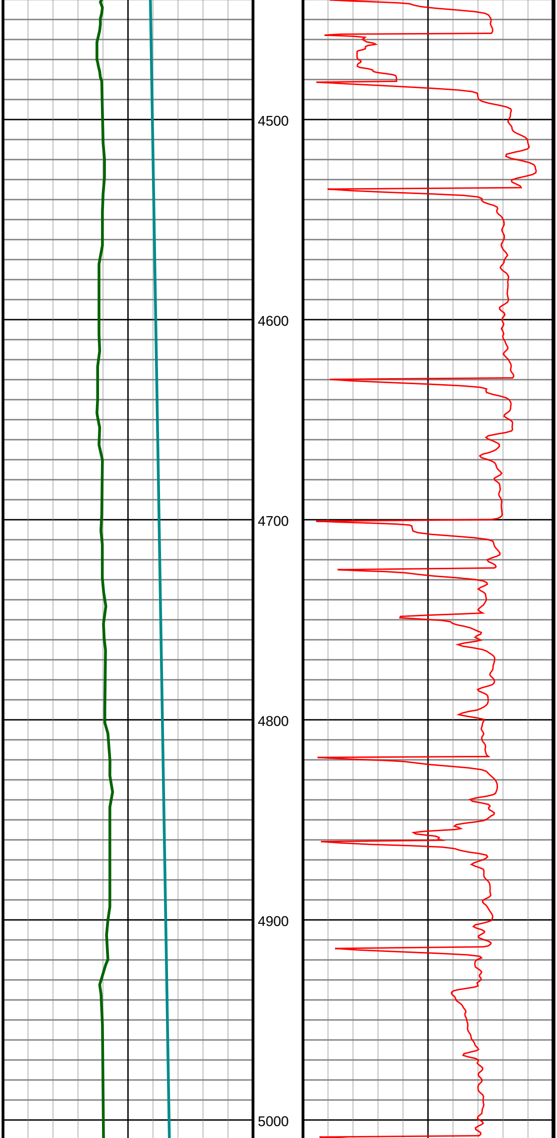


#32 MD(3919.00) Inc(1.5) Azm(7.2) TVD(3900.86)
VS(99.89) NS(89.12) EW(-189.51)

#33 MD(4108.00) Inc(1.2) Azm(333.2) TVD(4089.81)
VS(104.18) NS(93.40) EW(-190.07)

#34 MD(4202.00) Inc(1.0) Azm(335.5) TVD(4183.79)
VS(105.82) NS(94.99) EW(-190.84)

#35 MD(4391.00) Inc(1.0) Azm(8.4) TVD(4372.76)
VS(108.88) NS(98.03) EW(-191.27)

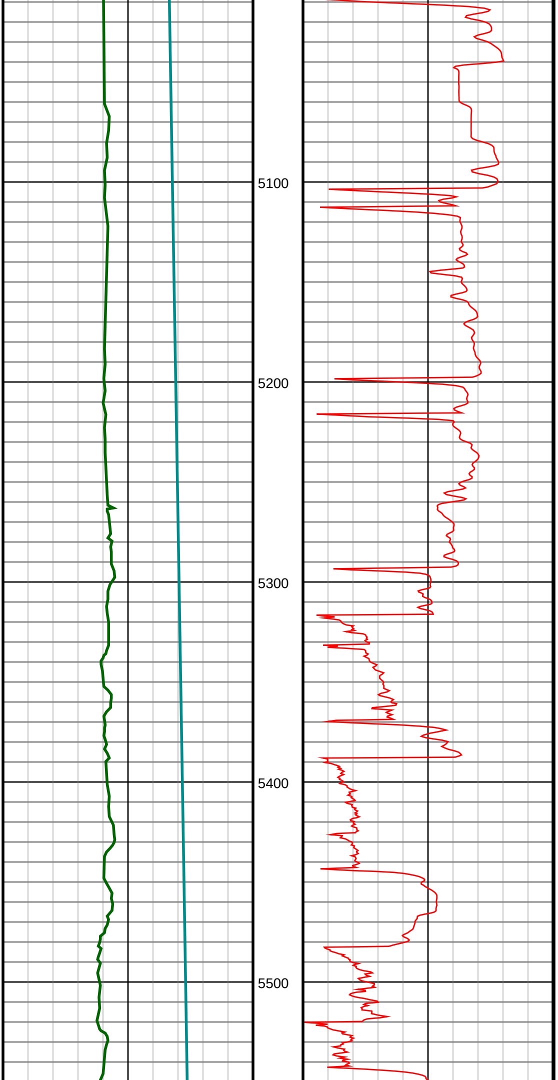


#36 MD(4486.00) Inc(0.7) Azm(93.9) TVD(4467.76)
VS(109.59) NS(98.79) EW(-190.57)

#37 MD(4580.00) Inc(0.6) Azm(90.4) TVD(4561.75)
VS(109.49) NS(98.74) EW(-189.53)

#38 MD(4675.00) Inc(0.0) Azm(54.8) TVD(4656.75)
VS(109.48) NS(98.76) EW(-189.03)

#39 MD(4863.00) Inc(1.1) Azm(40.9) TVD(4844.74)
VS(110.76) NS(100.11) EW(-187.84)



#40 MD(5052.00) Inc(1.2) Azm(20.1) TVD(5033.70)
VS(113.81) NS(103.28) EW(-186.02)

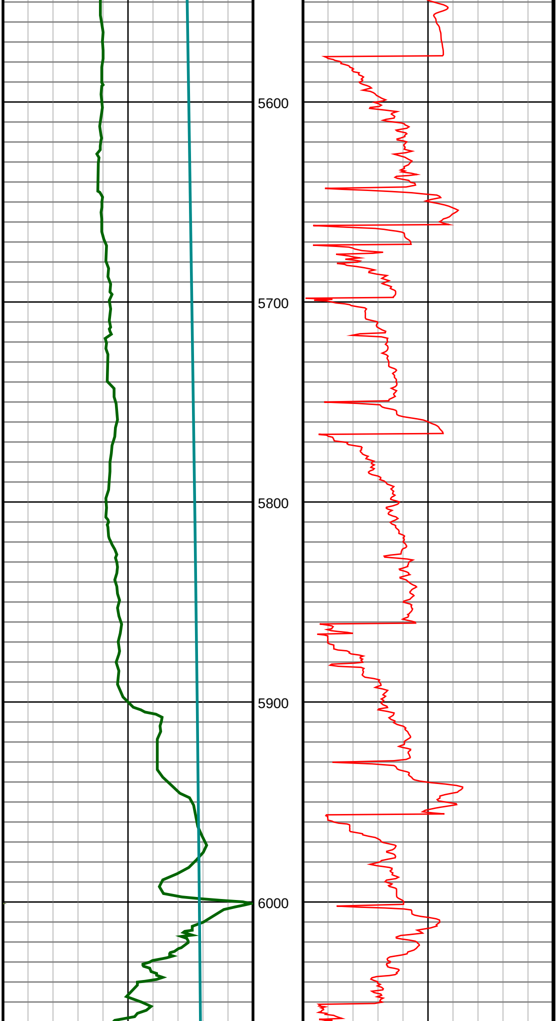
#41 MD(5147.00) Inc(1.0) Azm(9.4) TVD(5128.69)
VS(115.50) NS(105.00) EW(-185.55)

#42 MD(5242.00) Inc(0.8) Azm(0.9) TVD(5223.67)
VS(116.94) NS(106.45) EW(-185.41)

#43 MD(5336.00) Inc(3.2) Azm(14.1) TVD(5317.61)
VS(120.07) NS(109.61) EW(-184.77)

#44 MD(5431.00) Inc(12.0) Azm(2.0) TVD(5411.69)
VS(132.43) NS(122.06) EW(-183.78)

#45 MD(5525.00) Inc(17.7) Azm(8.4) TVD(5502.52)
VS(156.18) NS(145.99) EW(-181.33)



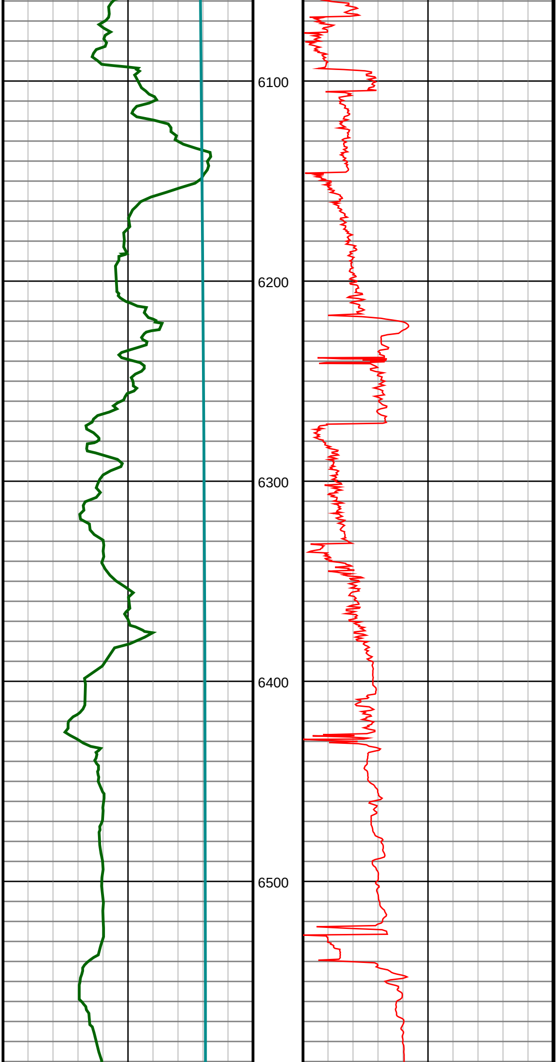
#46 MD(5619.00) Inc(22.2) Azm(359.2) TVD(5590.86)
VS(187.98) NS(177.94) EW(-179.47)

#47 MD(5714.00) Inc(26.8) Azm(359.0) TVD(5677.27)
VS(227.37) NS(217.36) EW(-180.08)

#48 MD(5809.00) Inc(36.1) Azm(356.5) TVD(5758.21)
VS(276.89) NS(266.85) EW(-182.16)

#49 MD(5904.00) Inc(47.0) Azm(358.9) TVD(5829.19)
VS(339.80) NS(329.72) EW(-184.51)

#50 MD(5998.00) Inc(53.9) Azm(358.9) TVD(5889.02)
VS(412.17) NS(402.14) EW(-185.84)



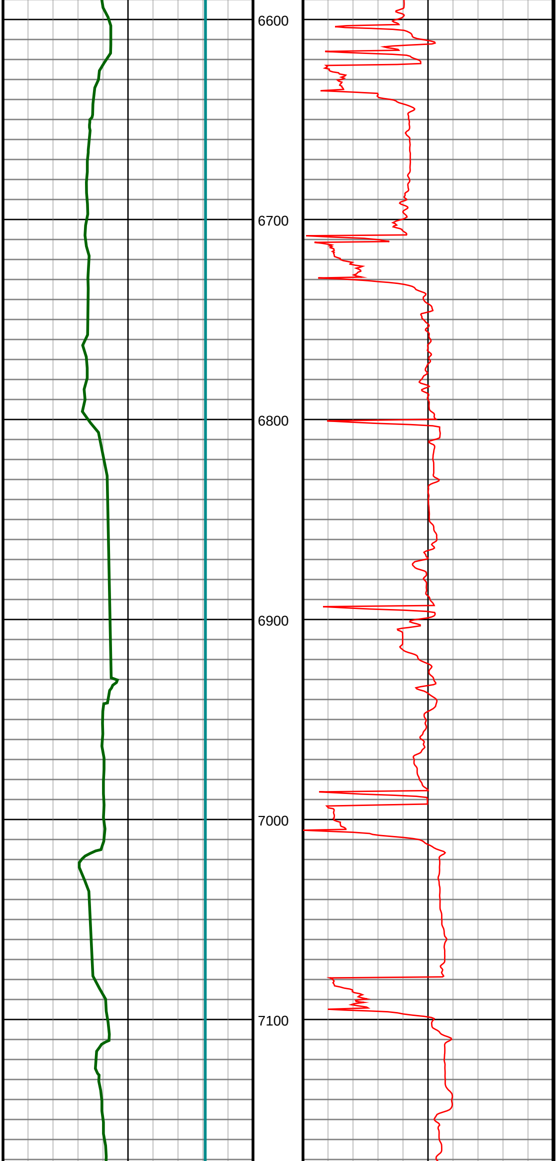
#51 MD(6093.00) Inc(57.8) Azm(358.9) TVD(5942.35)
VS(490.71) NS(480.72) EW(-187.34)

#52 MD(6187.00) Inc(63.8) Azm(357.6) TVD(5988.17)
VS(572.70) NS(562.70) EW(-189.88)

#53 MD(6282.00) Inc(67.7) Azm(356.9) TVD(6027.19)
VS(659.30) NS(649.21) EW(-194.00)

#54 MD(6379.00) Inc(80.0) Azm(355.5) TVD(6054.16)
VS(752.27) NS(741.98) EW(-200.16)

#55 MD(6555.00) Inc(87.8) Azm(357.1) TVD(6072.95)
VS(927.12) NS(916.47) EW(-211.38)



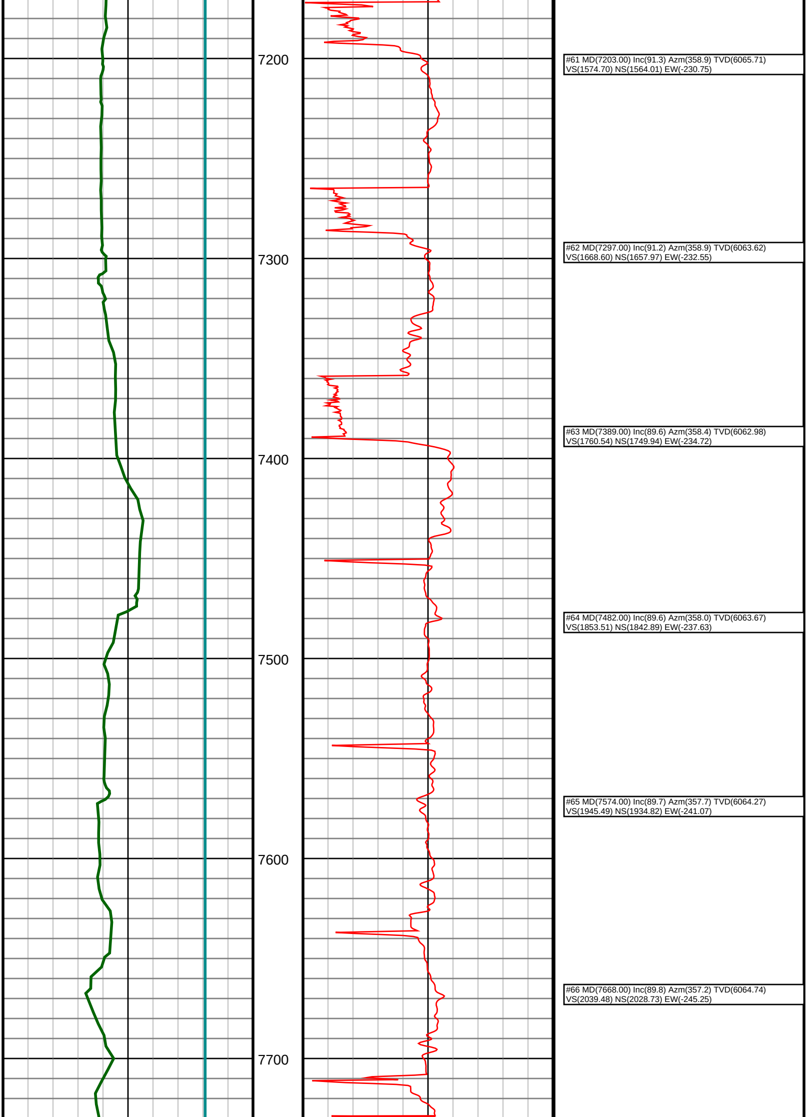
#56 MD(6648.00) Inc(89.2) Azm(357.6) TVD(6075.40)
VS(1020.08) NS(1009.33) EW(-215.71)

#57 MD(6740.00) Inc(90.5) Azm(358.6) TVD(6075.68)
VS(1112.05) NS(1101.28) EW(-218.80)

#58 MD(6925.00) Inc(91.6) Azm(358.5) TVD(6072.36)
VS(1296.92) NS(1286.19) EW(-223.46)

#59 MD(7018.00) Inc(91.5) Azm(358.9) TVD(6069.83)
VS(1389.83) NS(1379.13) EW(-225.52)

#60 MD(7111.00) Inc(91.1) Azm(357.8) TVD(6067.69)
VS(1482.76) NS(1472.07) EW(-228.15)



#61 MD(7203.00) Inc(91.3) Azm(358.9) TVD(6065.71)
VS(1574.70) NS(1564.01) EW(-230.75)

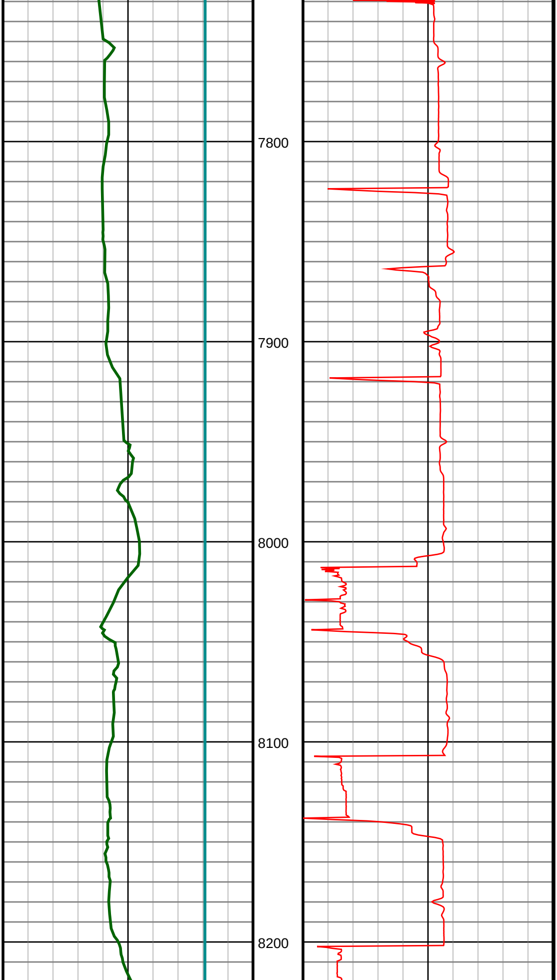
#62 MD(7297.00) Inc(91.2) Azm(358.9) TVD(6063.62)
VS(1668.60) NS(1657.97) EW(-232.55)

#63 MD(7389.00) Inc(89.6) Azm(358.4) TVD(6062.98)
VS(1760.54) NS(1749.94) EW(-234.72)

#64 MD(7482.00) Inc(89.6) Azm(358.0) TVD(6063.67)
VS(1853.51) NS(1842.89) EW(-237.63)

#65 MD(7574.00) Inc(89.7) Azm(357.7) TVD(6064.27)
VS(1945.49) NS(1934.82) EW(-241.07)

#66 MD(7668.00) Inc(89.8) Azm(357.2) TVD(6064.74)
VS(2039.48) NS(2028.73) EW(-245.25)



#67 MD(7763.00) Inc(90.1) Azm(356.8) TVD(6064.88)
VS(2134.48) NS(2123.60) EW(-250.19)

#68 MD(7857.00) Inc(90.5) Azm(356.6) TVD(6064.37)
VS(2228.48) NS(2217.44) EW(-255.59)

#69 MD(7952.00) Inc(90.6) Azm(356.3) TVD(6063.38)
VS(2323.47) NS(2312.25) EW(-261.47)

#70 MD(8046.00) Inc(91.2) Azm(357.2) TVD(6061.90)
VS(2417.46) NS(2406.09) EW(-266.79)

#71 MD(8142.00) Inc(91.4) Azm(359.1) TVD(6059.72)
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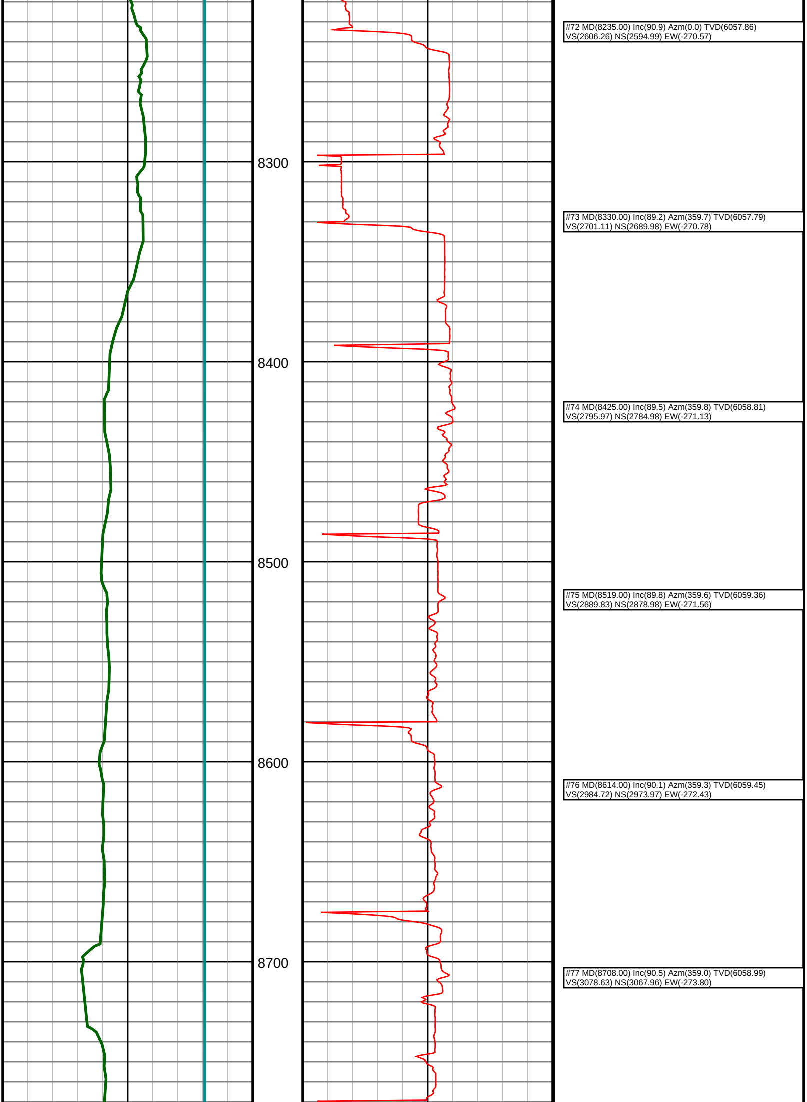

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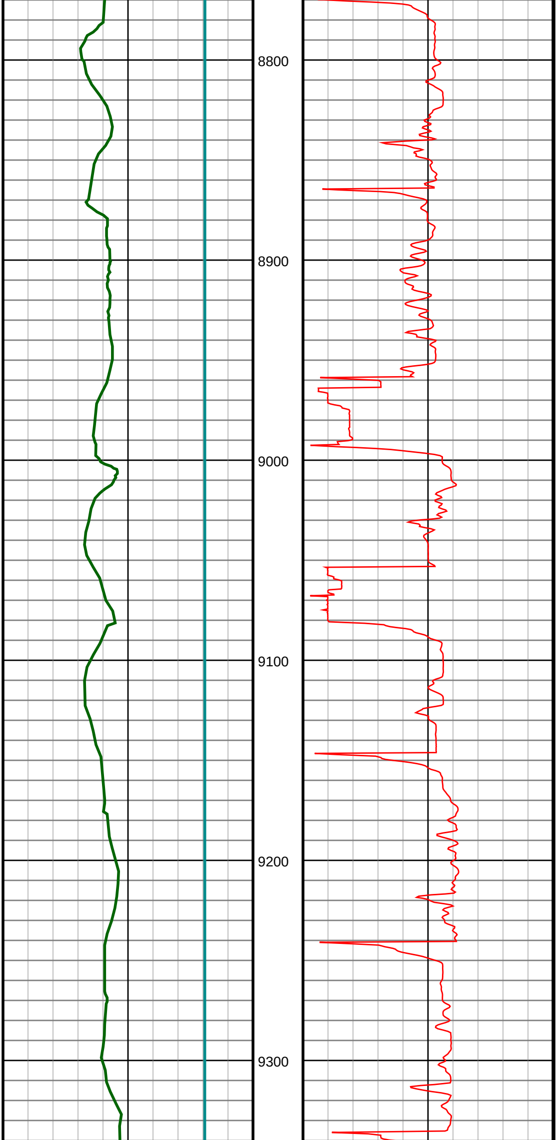
#73 MD(8330.00) Inc(89.2) Azm(359.7) TVD(6057.79)
VS(2701.11) NS(2689.98) EW(-270.78)

#74 MD(8425.00) Inc(89.5) Azm(359.8) TVD(6058.81)
VS(2795.97) NS(2784.98) EW(-271.13)

#75 MD(8519.00) Inc(89.8) Azm(359.6) TVD(6059.36)
VS(2889.83) NS(2878.98) EW(-271.56)

#76 MD(8614.00) Inc(90.1) Azm(359.3) TVD(6059.45)
VS(2984.72) NS(2973.97) EW(-272.43)

#77 MD(8708.00) Inc(90.5) Azm(359.0) TVD(6058.99)
VS(3078.63) NS(3067.96) EW(-273.80)



#78 MD(8803.00) Inc(90.8) Azm(358.8) TVD(6057.93)
VS(3173.56) NS(3162.94) EW(-275.62)

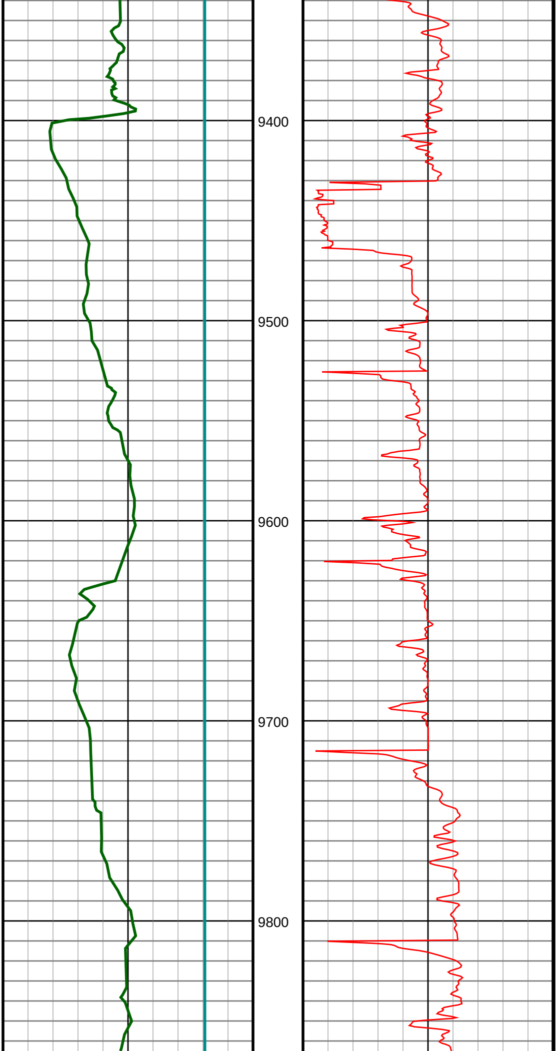
#79 MD(8898.00) Inc(91.1) Azm(358.3) TVD(6056.33)
VS(3268.49) NS(3257.89) EW(-278.03)

#80 MD(8992.00) Inc(90.6) Azm(359.0) TVD(6054.90)
VS(3362.43) NS(3351.86) EW(-280.19)

#81 MD(9086.00) Inc(89.6) Azm(359.9) TVD(6054.69)
VS(3456.31) NS(3445.85) EW(-281.05)

#82 MD(9180.00) Inc(89.9) Azm(359.7) TVD(6055.06)
VS(3550.17) NS(3539.85) EW(-281.33)

#83 MD(9275.00) Inc(90.9) Azm(359.6) TVD(6054.41)
VS(3645.04) NS(3634.84) EW(-281.91)



#84 MD(9369.00) Inc(91.3) Azm(359.6) TVD(6052.64)
VS(3738.91) NS(3728.82) EW(-282.60)

#85 MD(9464.00) Inc(89.7) Azm(358.3) TVD(6051.80)
VS(3833.82) NS(3823.80) EW(-284.32)

#86 MD(9559.00) Inc(89.5) Azm(358.2) TVD(6052.45)
VS(3928.79) NS(3918.75) EW(-287.19)

#87 MD(9653.00) Inc(89.3) Azm(357.5) TVD(6053.43)
VS(4022.76) NS(4012.68) EW(-290.69)

#88 MD(9747.00) Inc(89.3) Azm(357.4) TVD(6054.57)
VS(4116.75) NS(4106.58) EW(-294.84)

#89 MD(9841.00) Inc(88.7) Azm(356.6) TVD(6056.21)
VS(4210.73) NS(4200.44) EW(-299.78)

#90 MD(9935.00) Inc(88.6) Azm(355.8) TVD(6058.45)
VS(4304.70) NS(4294.20) EW(-306.04)

#91 MD(10030.00) Inc(90.5) Azm(357.5) TVD(6059.22)
VS(4399.69) NS(4389.03) EW(-311.63)

#92 MD(10124.00) Inc(90.8) Azm(359.4) TVD(6058.15)
VS(4493.63) NS(4482.98) EW(-314.21)

#93 MD(10219.00) Inc(91.3) Azm(359.6) TVD(6056.40)
VS(4588.51) NS(4577.96) EW(-315.08)

#94 MD(10313.00) Inc(91.2) Azm(359.0) TVD(6054.31)
VS(4682.38) NS(4671.93) EW(-316.22)

#95 MD(10407.00) Inc(91.5) Azm(358.9) TVD(6052.03)
VS(4776.28) NS(4765.89) EW(-317.86)

#96 MD(10502.00) Inc(91.9) Azm(358.8) TVD(6049.22)
VS(4871.17) NS(4860.83) EW(-319.75)

#97 MD(10596.00) Inc(91.2) Azm(0.0) TVD(6046.66)
VS(4965.03) NS(4954.78) EW(-320.74)

#98 MD(10690.00) Inc(89.5) Azm(0.0) TVD(6046.06)
VS(5058.87) NS(5048.78) EW(-320.72)

#99 MD(10785.00) Inc(89.6) Azm(359.8) TVD(6046.83)
VS(5153.72) NS(5143.78) EW(-320.85)

#100 MD(10879.00) Inc(89.7) Azm(359.9) TVD(6047.41)
VS(5247.57) NS(5237.77) EW(-321.06)

#101 MD(10973.00) Inc(90.2) Azm(359.9) TVD(6047.49)
VS(5341.42) NS(5331.77) EW(-321.19)

#102 MD(11068.00) Inc(90.5) Azm(359.7) TVD(6046.95)
VS(5436.28) NS(5426.77) EW(-321.52)

#103 MD(11162.00) Inc(91.8) Azm(359.9) TVD(6045.09)
VS(5530.12) NS(5520.75) EW(-321.87)

#104 MD(11265.00) Inc(91.8) Azm(359.7) TVD(6041.85)
VS(5632.92) NS(5623.70) EW(-322.20)

#105 MD(11325.00) Inc(91.8) Azm(359.7) TVD(6039.95)
VS(5692.81) NS(5683.67) EW(-322.50)