

# Rohn State LD10-68-1HN

**MD**  
1" : 100'

**Company:** Noble Energy Inc  
**Well Name:** Rohn State LD10-68-1HN

**API:** 05-123-37626

**Rig Id:** Precision 828

**State:** Colorado

**County/Parish:** Weld

**Country:** USA

**Survey Company:** Ensign Directional

**Job number:** 05-123-37626

**Company Man 1** Gary Stapleton

**Directional Driller 1** Tyler Batchelder

**Directional Driller 2** Matt Mason

**Directional Driller 3** Dustin Davis

**MWD 1** Mark Bigler

**MWD 2** Derek Saykally

**Log measurements:** Gamma

**Depth measured from:** KB

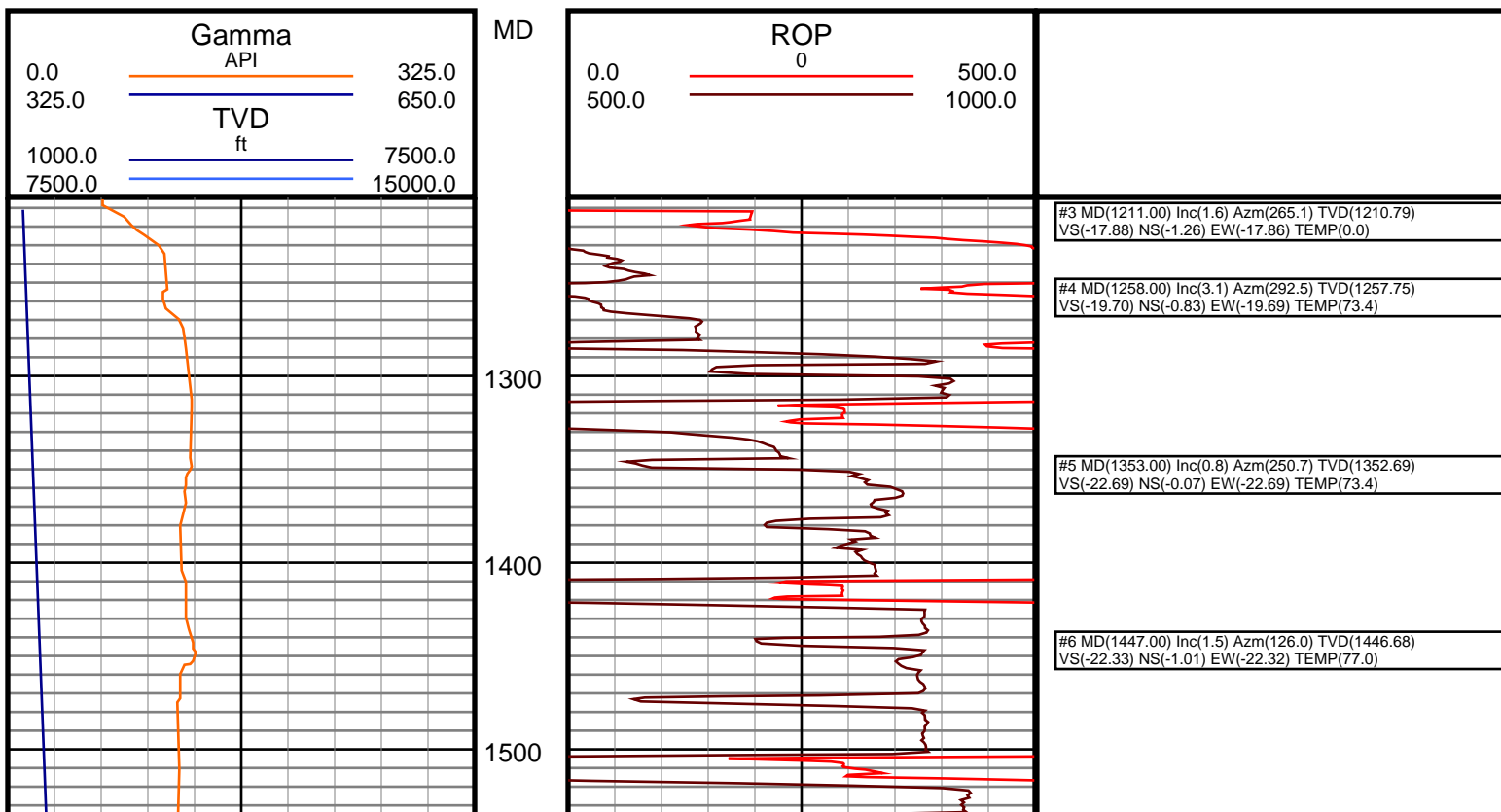
**Maximum temperature:**

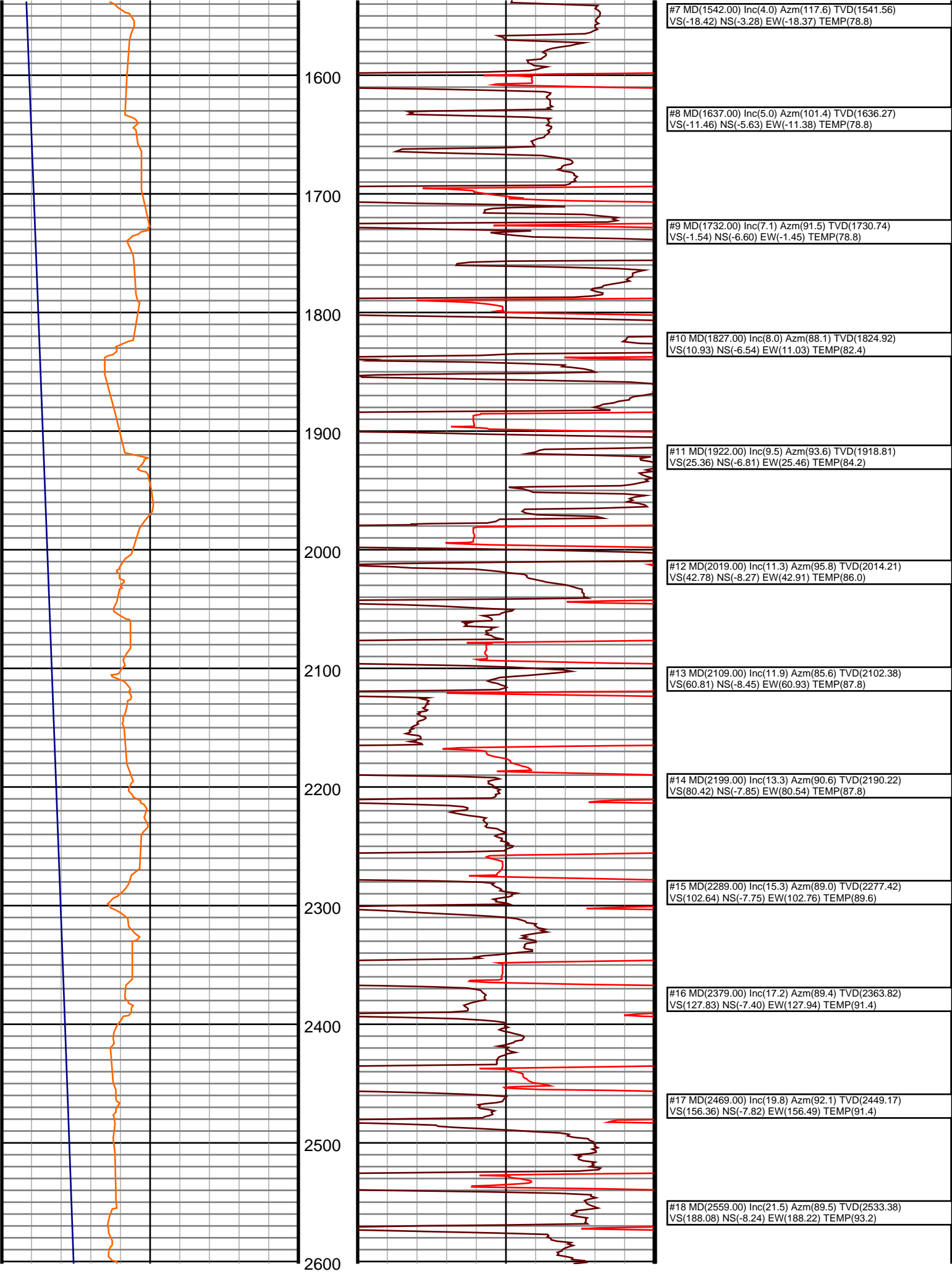
**Depth** **Date**  
**Start:** 1207 ft 10/2/2014  
**End:** 9590 ft 10/7/2014

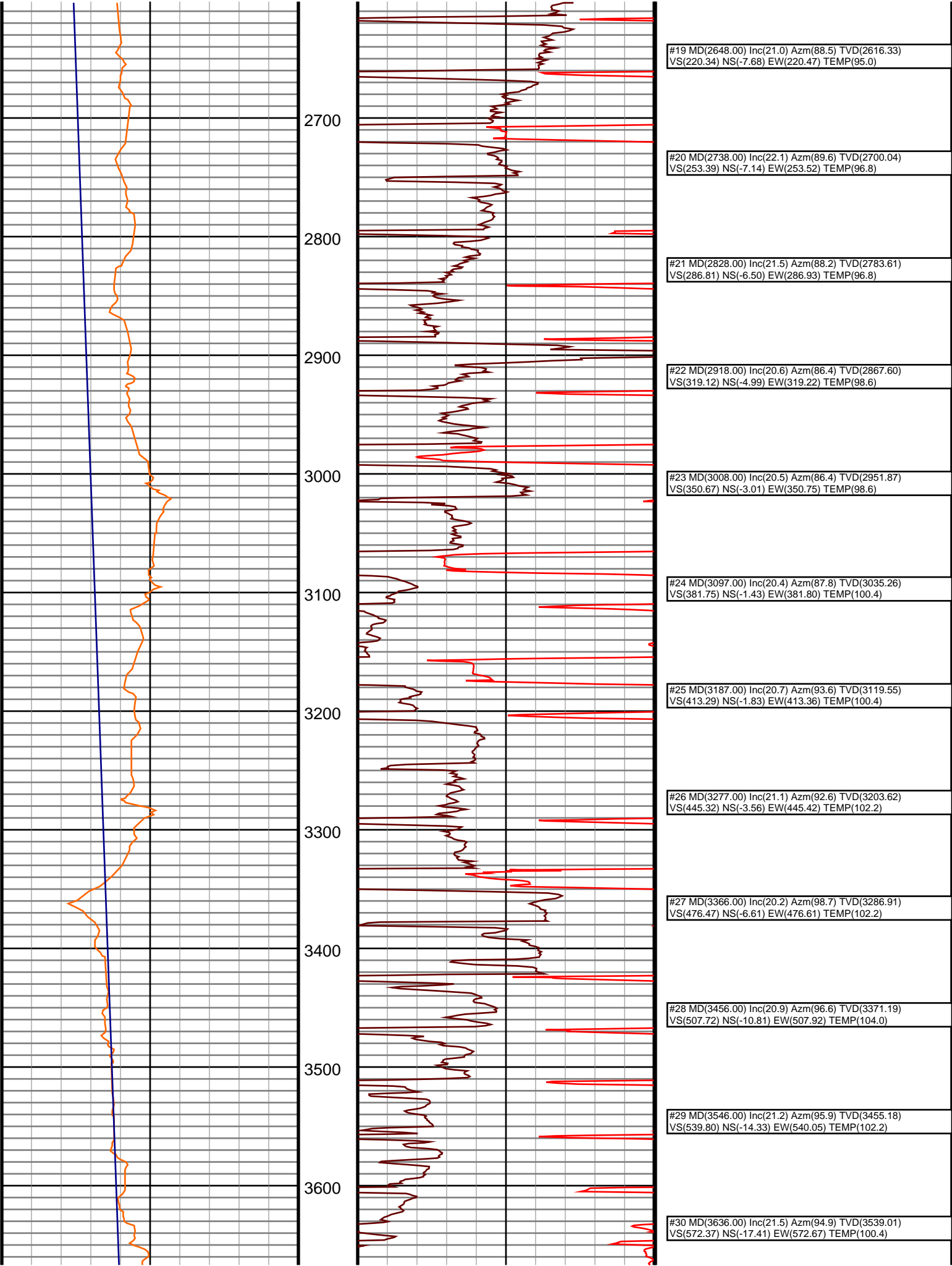
Casing	Depth	Size	Mud Type:	Water Based	Elevations
Surface:	1207	9.625	Density:		KB: 4755
Intermediate:	6144	7	Viscosity:		GL: 4739
			Rm:	Rmf:	DF: 4755

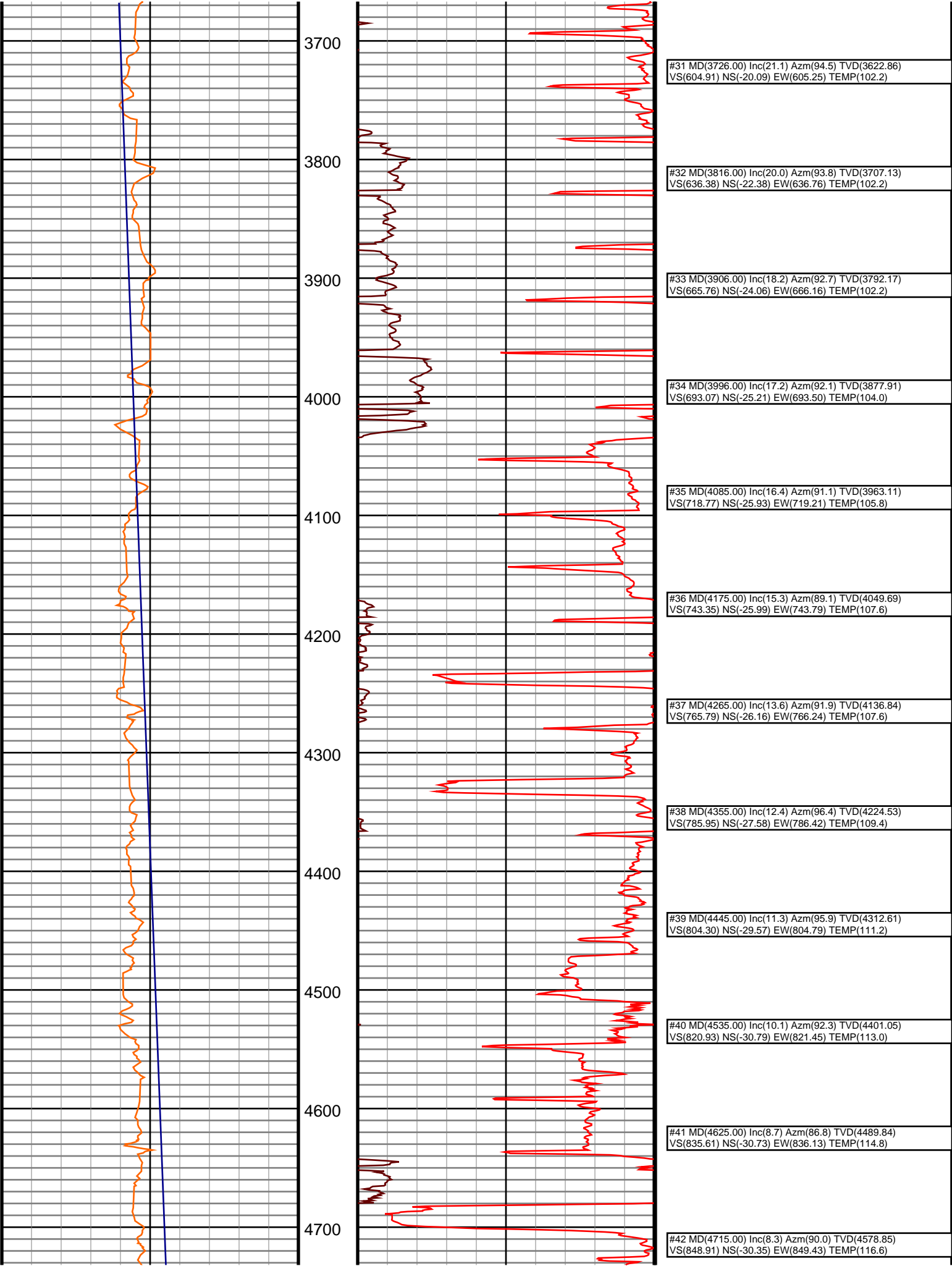
Run	Bit Size	Offsets	Gamma	Survey	Start	End	Dates	Start	End
1	8 3/4		59.67		1207	6171		10/2/2014	10/4/2014
2	6 1/8		61.52		6144	7117		10/5/2014	10/6/2014
3	6 1/8		61.48		7117	9590		10/6/2014	10/7/2014
4									
5									
6									
7									
8									
9									
10									

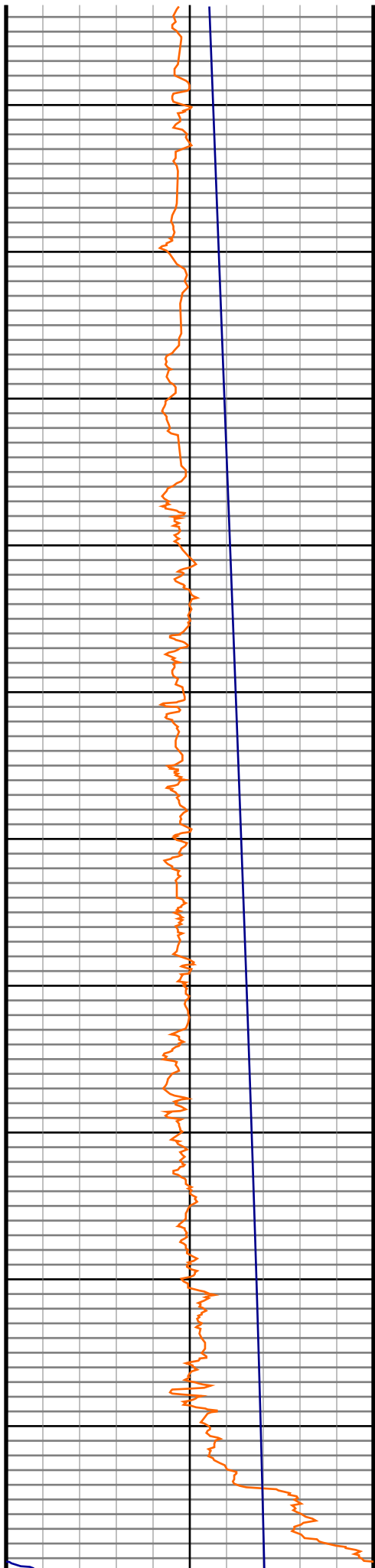
Ensign Directional uses its best efforts to provide its customers with accurate information and interpretations in conjunction with services performed but will not be held liable or responsible for the accuracy of such information or interpretation.











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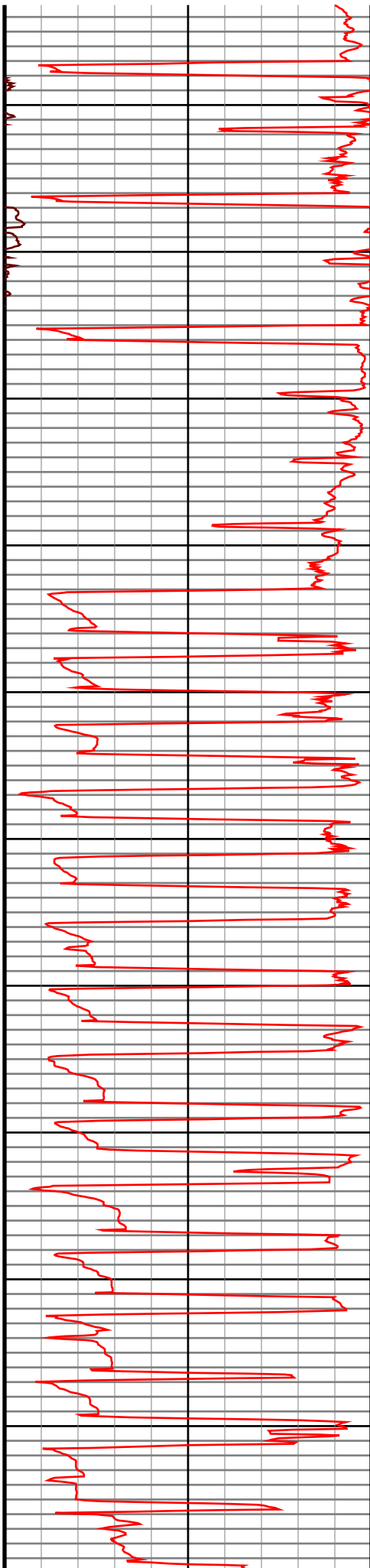
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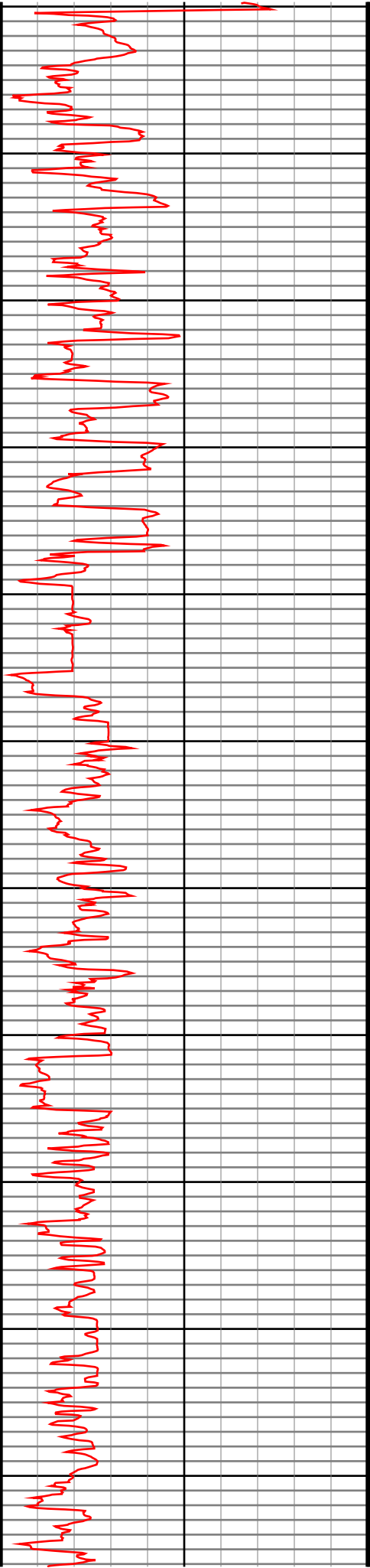
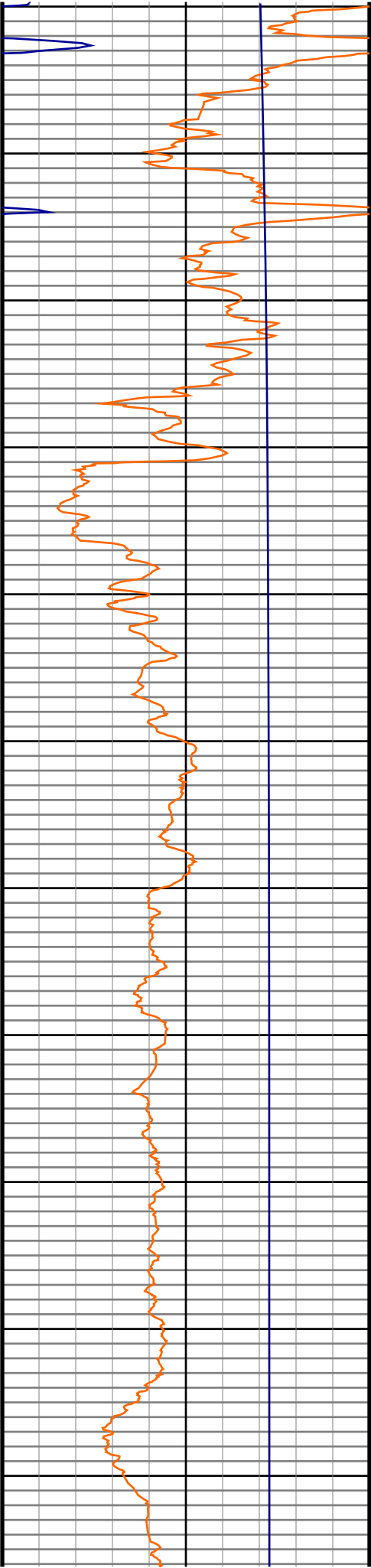
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#43 MD(4804.00) Inc(6.9) Azm(93.6) TVD(4667.07) VS(860.67) NS(-30.68) EW(861.19) TEMP(120.2)
#44 MD(4894.00) Inc(5.0) Azm(89.8) TVD(4756.58) VS(869.98) NS(-31.01) EW(870.50) TEMP(122.0)
#45 MD(4984.00) Inc(3.3) Azm(96.9) TVD(4846.34) VS(876.47) NS(-31.31) EW(877.00) TEMP(123.8)
#46 MD(5074.00) Inc(3.0) Azm(97.3) TVD(4936.21) VS(881.37) NS(-31.92) EW(881.91) TEMP(127.4)
#47 MD(5119.00) Inc(3.3) Azm(97.2) TVD(4981.14) VS(883.81) NS(-32.23) EW(884.36) TEMP(127.4)
#48 MD(5164.00) Inc(7.1) Azm(97.7) TVD(5025.94) VS(887.85) NS(-32.76) EW(888.40) TEMP(127.4)
#49 MD(5209.00) Inc(10.6) Azm(97.9) TVD(5070.40) VS(894.69) NS(-33.71) EW(895.26) TEMP(129.2)
#50 MD(5254.00) Inc(13.1) Azm(94.1) TVD(5114.44) VS(903.87) NS(-34.64) EW(904.45) TEMP(131.0)
#51 MD(5299.00) Inc(14.7) Azm(87.0) TVD(5158.12) VS(914.65) NS(-34.71) EW(915.24) TEMP(132.8)
#53 MD(5344.00) Inc(17.3) Azm(87.4) TVD(5201.38) VS(927.05) NS(-34.10) EW(927.62) TEMP(132.8)
#54 MD(5389.00) Inc(20.3) Azm(88.4) TVD(5243.97) VS(941.55) NS(-33.58) EW(942.11) TEMP(134.6)
#55 MD(5434.00) Inc(23.6) Azm(90.5) TVD(5285.70) VS(958.36) NS(-33.44) EW(958.93) TEMP(134.6)
#56 MD(5478.00) Inc(27.2) Azm(91.6) TVD(5325.44) VS(977.22) NS(-33.80) EW(977.80) TEMP(136.4)
#57 MD(5523.00) Inc(30.0) Azm(91.2) TVD(5364.95) VS(998.74) NS(-34.32) EW(999.33) TEMP(138.2)
#58 MD(5568.00) Inc(33.5) Azm(90.2) TVD(5403.21) VS(1022.41) NS(-34.60) EW(1023.00) TEMP(140.0)
#59 MD(5613.00) Inc(37.8) Azm(89.4) TVD(5439.77) VS(1048.63) NS(-34.50) EW(1049.22) TEMP(140.0)
#60 MD(5658.00) Inc(42.1) Azm(89.3) TVD(5474.26) VS(1077.52) NS(-34.17) EW(1078.11) TEMP(141.8)
#61 MD(5703.00) Inc(45.3) Azm(91.1) TVD(5506.79) VS(1108.60) NS(-34.29) EW(1109.19) TEMP(140.0)
#62 MD(5748.00) Inc(48.8) Azm(91.9) TVD(5537.44) VS(1141.50) NS(-35.16) EW(1142.11) TEMP(140.0)
#63 MD(5793.00) Inc(52.1) Azm(90.7) TVD(5566.09) VS(1176.17) NS(-35.94) EW(1176.80) TEMP(140.0)



#64 MD(5838.00) Inc(55.2) Azm(91.3) TVD(5592.76)  
VS(1212.39) NS(-36.58) EW(1213.03) TEMP(138.2)

#65 MD(5883.00) Inc(59.2) Azm(90.0) TVD(5617.14)  
VS(1250.20) NS(-37.00) EW(1250.84) TEMP(138.2)

#66 MD(5928.00) Inc(62.4) Azm(89.3) TVD(5639.09)  
VS(1289.47) NS(-36.75) EW(1290.12) TEMP(140.0)

#67 MD(5973.00) Inc(66.8) Azm(89.4) TVD(5658.38)  
VS(1330.11) NS(-36.29) EW(1330.76) TEMP(141.8)

#68 MD(6018.00) Inc(72.8) Azm(89.7) TVD(5673.92)  
VS(1372.32) NS(-35.96) EW(1372.97) TEMP(143.6)

#69 MD(6063.00) Inc(77.2) Azm(88.1) TVD(5685.56)  
VS(1415.78) NS(-35.12) EW(1416.41) TEMP(147.2)

#70 MD(6116.00) Inc(80.9) Azm(86.4) TVD(5695.63)  
VS(1467.77) NS(-32.62) EW(1468.38) TEMP(149.0)

#71 MD(6192.00) Inc(84.4) Azm(85.3) TVD(5705.35)  
VS(1543.00) NS(-27.17) EW(1543.54) TEMP(154.4)

#72 MD(6284.00) Inc(84.7) Azm(86.9) TVD(5714.09)  
VS(1634.45) NS(-20.94) EW(1634.91) TEMP(154.4)

#73 MD(6379.00) Inc(87.0) Azm(88.8) TVD(5720.96)  
VS(1729.17) NS(-17.39) EW(1729.59) TEMP(156.0)

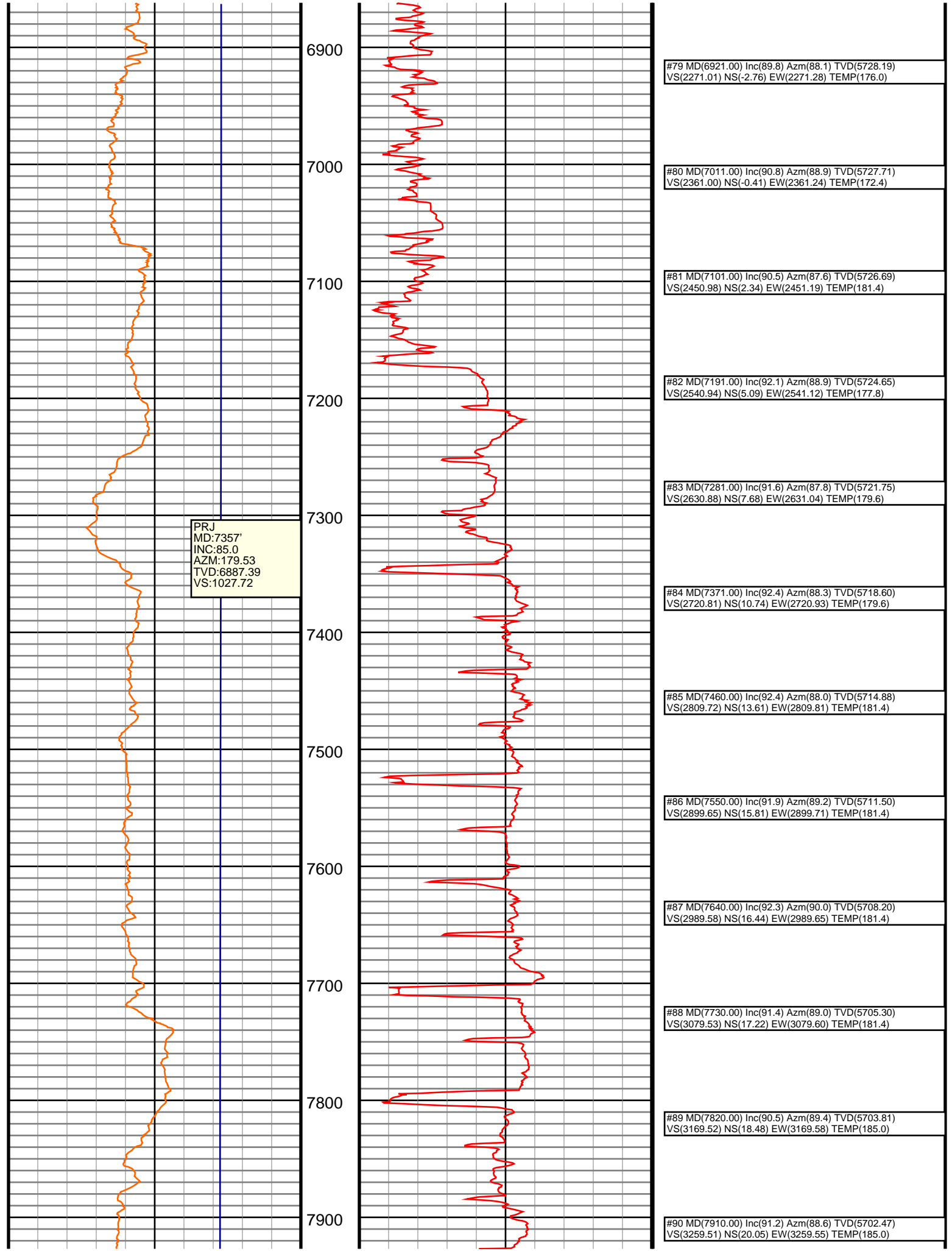
#74 MD(6472.00) Inc(88.5) Azm(88.6) TVD(5724.61)  
VS(1822.09) NS(-15.28) EW(1822.49) TEMP(163.4)

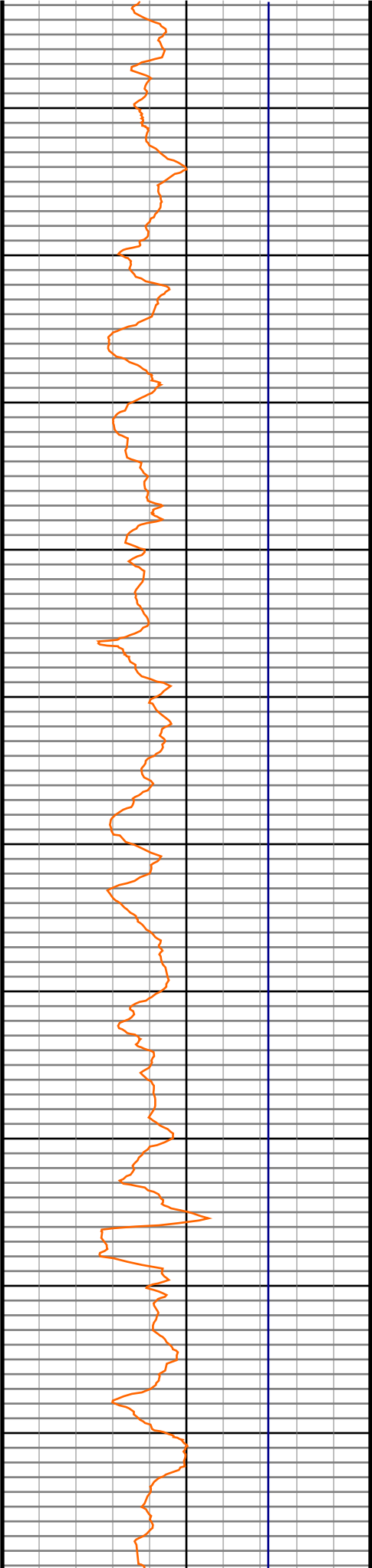
#75 MD(6565.00) Inc(90.4) Azm(88.0) TVD(5725.51)  
VS(1915.07) NS(-12.52) EW(1915.44) TEMP(167.0)

#76 MD(6657.00) Inc(89.6) Azm(89.3) TVD(5725.51)  
VS(2007.06) NS(-10.35) EW(2007.41) TEMP(168.8)

#77 MD(6751.00) Inc(89.1) Azm(88.3) TVD(5726.57)  
VS(2101.05) NS(-8.38) EW(2101.38) TEMP(176.0)

#78 MD(6845.00) Inc(89.5) Azm(88.0) TVD(5727.72)  
VS(2195.03) NS(-5.35) EW(2195.32) TEMP(174.2)





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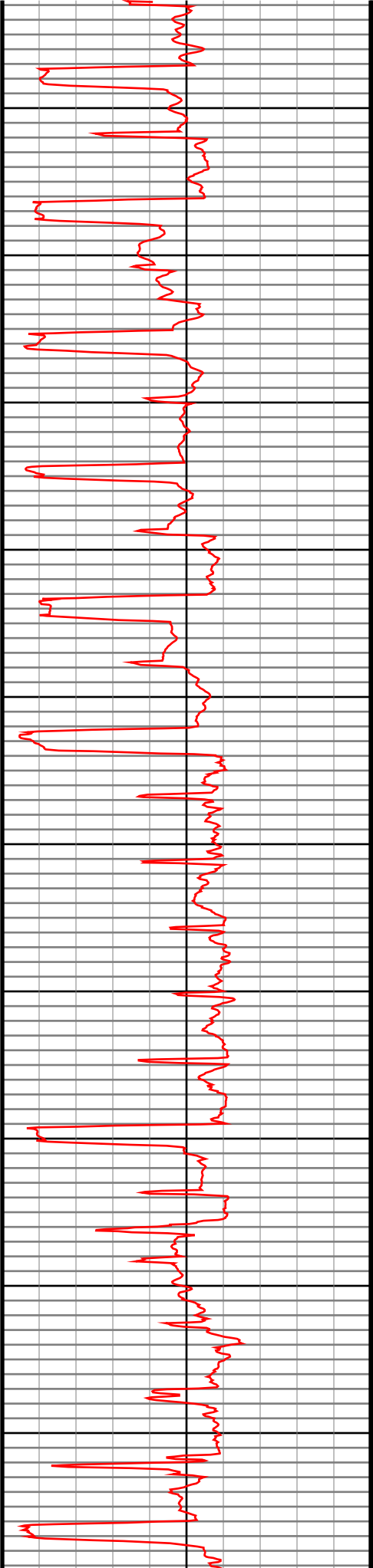
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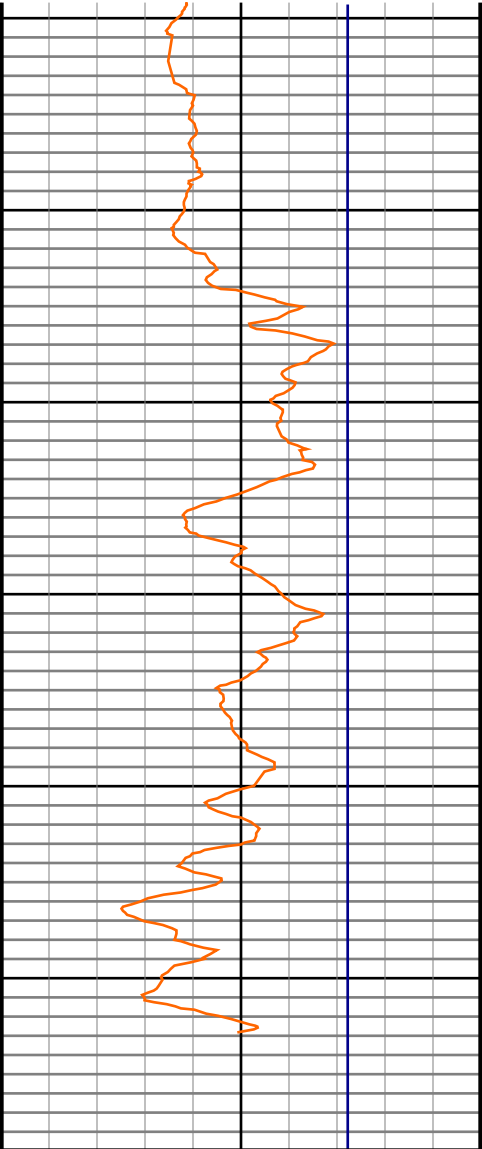
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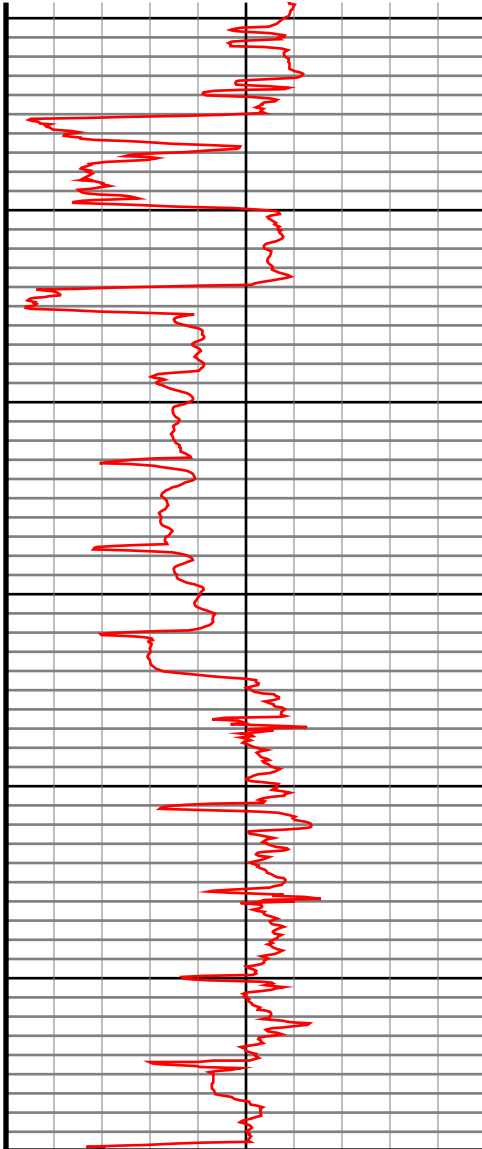
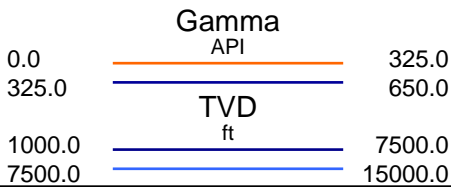


#91 MD(7999.00) Inc(92.2) Azm(87.7) TVD(5699.83) VS(3348.45) NS(22.92) EW(3348.46) TEMP(161.6)
#92 MD(8089.00) Inc(91.1) Azm(86.0) TVD(5697.24) VS(3438.34) NS(27.86) EW(3438.29) TEMP(183.2)
#93 MD(8179.00) Inc(90.2) Azm(86.1) TVD(5696.22) VS(3528.19) NS(34.06) EW(3528.07) TEMP(179.6)
#94 MD(8269.00) Inc(90.7) Azm(86.6) TVD(5695.51) VS(3618.08) NS(39.79) EW(3617.88) TEMP(176.0)
#95 MD(8359.00) Inc(89.9) Azm(87.4) TVD(5695.04) VS(3708.01) NS(44.50) EW(3707.75) TEMP(177.8)
#96 MD(8449.00) Inc(89.5) Azm(89.3) TVD(5695.51) VS(3798.00) NS(47.09) EW(3797.71) TEMP(174.2)
#97 MD(8539.00) Inc(89.6) Azm(88.8) TVD(5696.22) VS(3887.99) NS(48.59) EW(3887.70) TEMP(179.6)
#98 MD(8629.00) Inc(89.2) Azm(88.7) TVD(5697.16) VS(3977.99) NS(50.55) EW(3977.67) TEMP(181.4)
#99 MD(8718.00) Inc(90.5) Azm(89.7) TVD(5697.39) VS(4066.98) NS(51.79) EW(4066.66) TEMP(181.4)
#100 MD(8808.00) Inc(90.6) Azm(88.3) TVD(5696.53) VS(4156.98) NS(53.36) EW(4156.64) TEMP(174.2)
#101 MD(8898.00) Inc(89.9) Azm(87.8) TVD(5696.14) VS(4246.96) NS(56.42) EW(4246.58) TEMP(185.0)
#102 MD(8988.00) Inc(91.2) Azm(87.9) TVD(5695.27) VS(4336.93) NS(59.80) EW(4336.51) TEMP(183.2)





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#103 MD(9078.00) Inc(91.1) Azm(89.3) TVD(5693.47) VS(4426.90) NS(62.00) EW(4426.47) TEMP(181.4)
#104 MD(9167.00) Inc(89.5) Azm(88.5) TVD(5693.00) VS(4515.89) NS(63.71) EW(4515.44) TEMP(183.2)
#105 MD(9257.00) Inc(88.9) Azm(88.1) TVD(5694.26) VS(4605.87) NS(66.38) EW(4605.40) TEMP(186.8)
#106 MD(9347.00) Inc(90.4) Azm(87.1) TVD(5694.81) VS(4695.83) NS(70.15) EW(4695.31) TEMP(188.6)
#107 MD(9437.00) Inc(89.8) Azm(87.0) TVD(5694.65) VS(4785.77) NS(74.78) EW(4785.19) TEMP(188.6)
#108 MD(9530.00) Inc(89.5) Azm(86.9) TVD(5695.22) VS(4878.70) NS(79.73) EW(4878.06) TEMP(192.2)

