Five Rivers K07-62-1HN

MD
1":100'

Company:	Noble Energy Inc
Well Name:	Five Rivers K07-62-1HN
API:	05-123-38086
Rig Id:	Precision 828
State:	Colorado
County/Parish:	Weld
Country:	USA
Survey Company:	Ensign Directional
Job number:	
Company Man 1	Gary Stapleton
Directional Driller 1	Tyler Batchelder
Directional Driller 2	Matt Mason
MWD 1	Nick Jones
MWD 2	Andrew Keohan

Log measurements:
Depth measured from: KB
Maximum temperature:

	Depth	Date
Start:	634 ft	12/26/13
End:	16152 ft	1/11/14

Casing	Depth	Size
Surface:	634	9.625
Intermediate:	7448	7

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

Elevations
KB: 4718
GL: 4702
DF: 4718

Run	Bit Size	Offsets Gamma	Offsets Survey	Depths Start	Depths End	Dates Start	Dates End
1	8.75	58.15	53.15	634	7448	12/26/13	12/30/2013
2	6.125	66.55	61.55	7448		01/01/2014	
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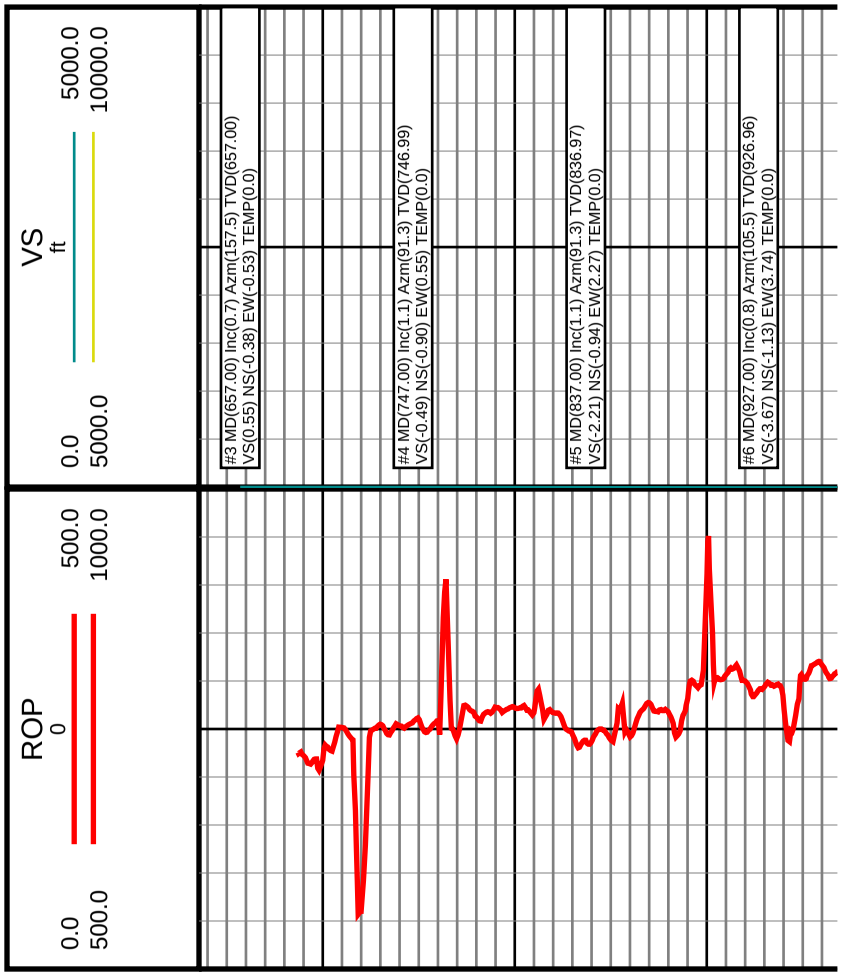

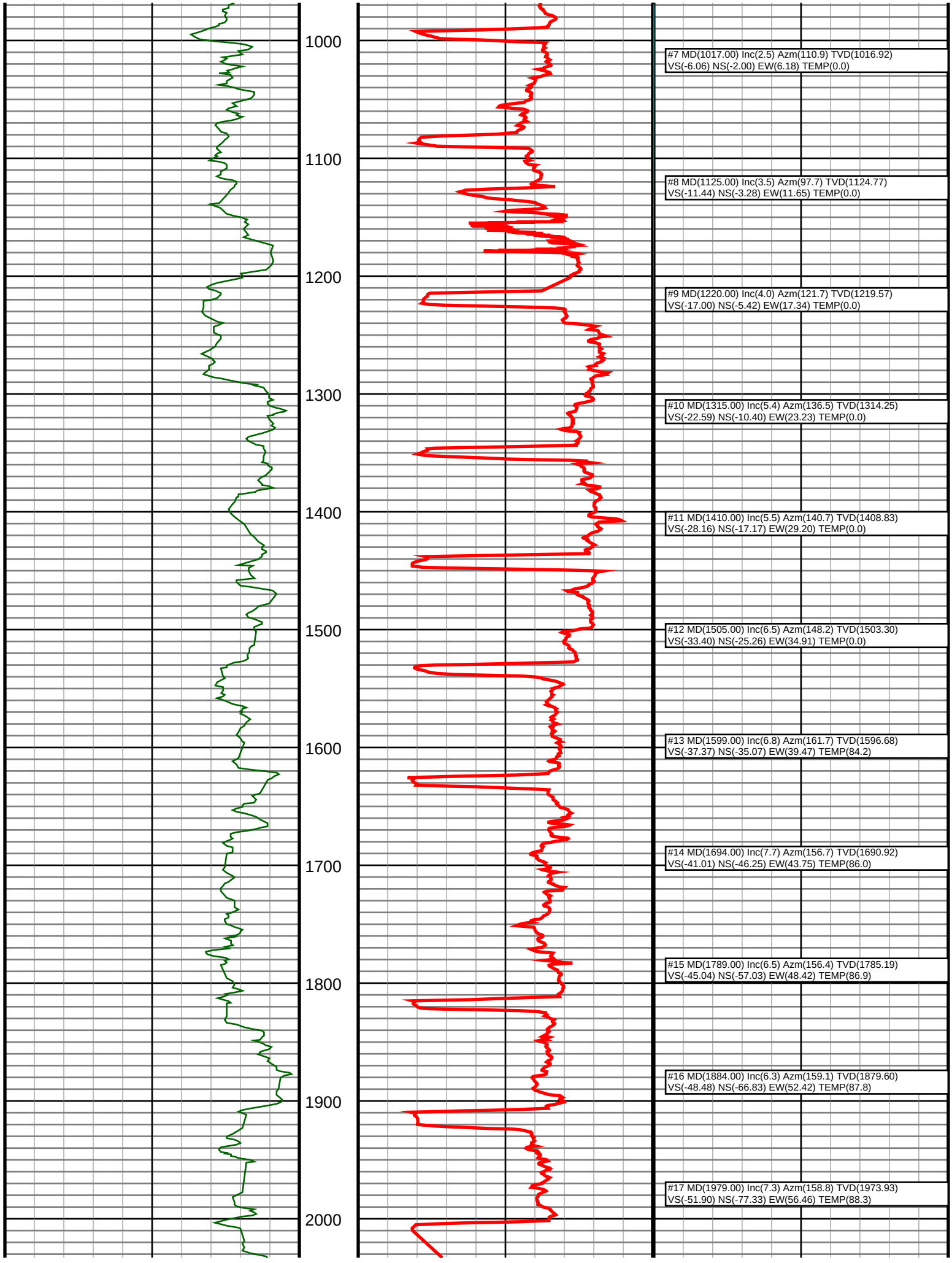
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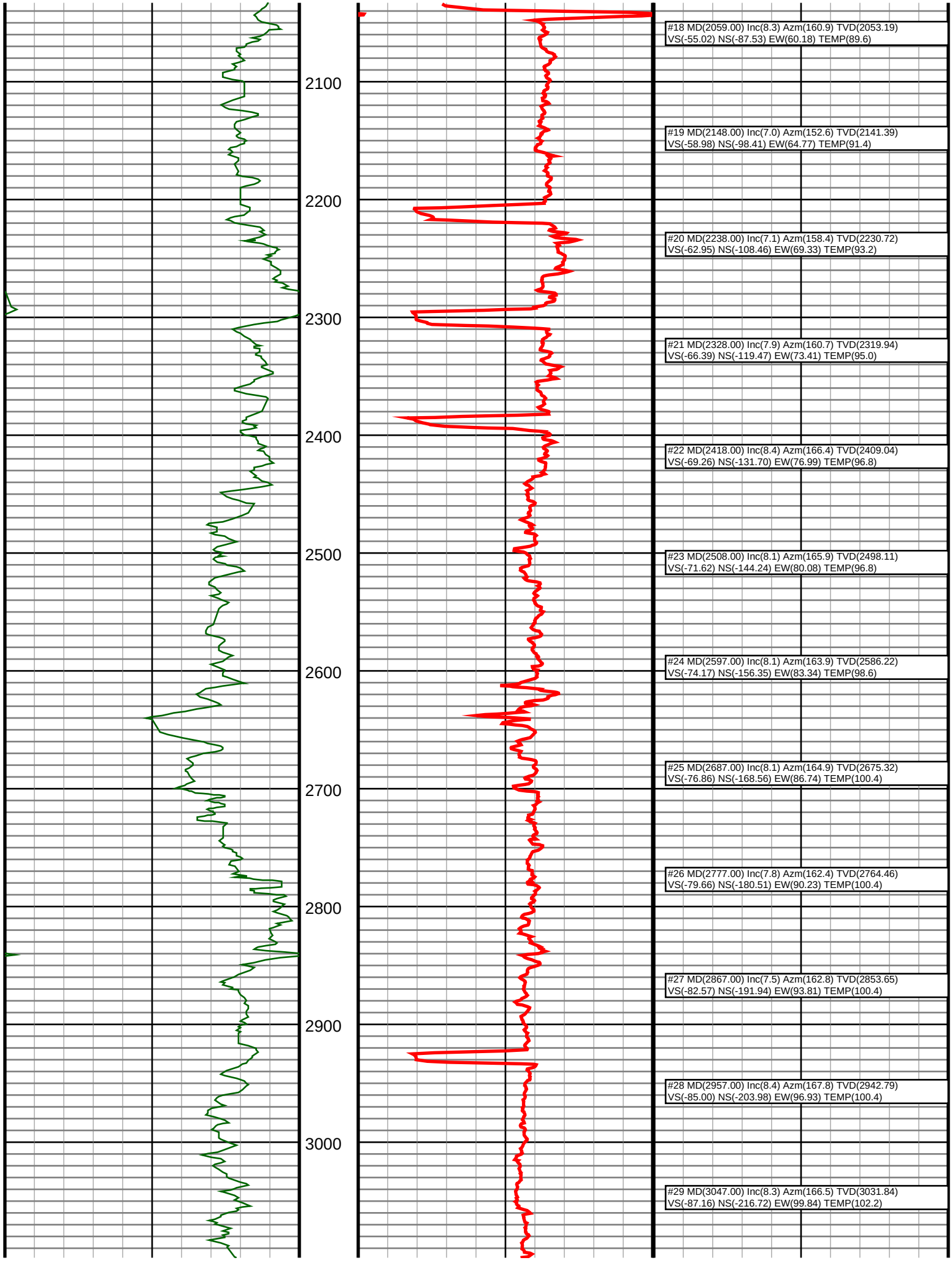
VS(-6.06) NS(-2.00) EW(6.18) TEMP(0.0)
#8 MD(1125.00) Inc(3.5) Azm(97.7) TVD(1124.77)
VS(-11.44) NS(-3.28) EW(11.65) TEMP(0.0)
#9 MD(1220.00) Inc(4.0) Azm(121.7) TVD(1219.57)
VS(-17.00) NS(-5.42) EW(17.34) TEMP(0.0)
#10 MD(1315.00) Inc(5.4) Azm(136.5) TVD(1314.25)
VS(-22.59) NS(-10.40) EW(23.23) TEMP(0.0)
#11 MD(1410.00) Inc(5.5) Azm(140.7) TVD(1408.83)
VS(-28.16) NS(-17.17) EW(29.20) TEMP(0.0)
#12 MD(1505.00) Inc(6.5) Azm(148.2) TVD(1503.30)
VS(-33.40) NS(-25.26) EW(34.91) TEMP(0.0)
#13 MD(1599.00) Inc(6.8) Azm(161.7) TVD(1596.68)
VS(-37.37) NS(-35.07) EW(39.47) TEMP(84.2)
#14 MD(1694.00) Inc(7.7) Azm(156.7) TVD(1690.92)
VS(-41.01) NS(-46.25) EW(43.75) TEMP(86.0)
#15 MD(1789.00) Inc(6.5) Azm(156.4) TVD(1785.19)
VS(-45.04) NS(-57.03) EW(48.42) TEMP(86.9)
#16 MD(1884.00) Inc(6.3) Azm(159.1) TVD(1879.60)
VS(-48.48) NS(-66.83) EW(52.42) TEMP(87.8)
#17 MD(1979.00) Inc(7.3) Azm(158.8) TVD(1973.93)
VS(-51.90) NS(-77.33) EW(56.46) TEMP(88.3)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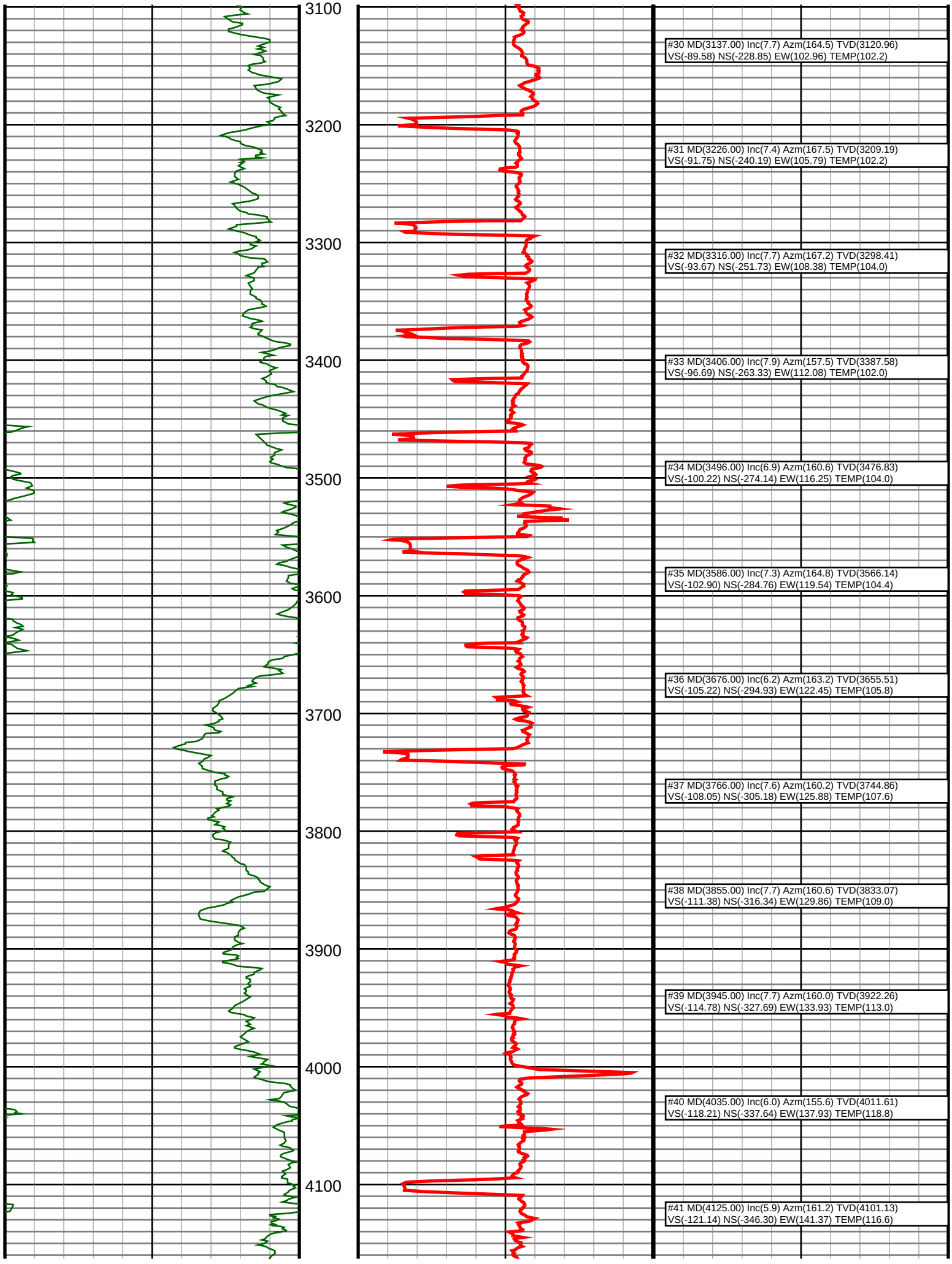
VS(-55.02) NS(-87.53) EW(60.18) TEMP(89.6)
#19 MD(2148.00) Inc(7.0) Azm(152.6) TVD(2141.39)
VS(-58.98) NS(-98.41) EW(64.77) TEMP(91.4)
#20 MD(2238.00) Inc(7.1) Azm(158.4) TVD(2230.72)
VS(-62.95) NS(-108.46) EW(69.33) TEMP(93.2)
#21 MD(2328.00) Inc(7.9) Azm(160.7) TVD(2319.94)
VS(-66.39) NS(-119.47) EW(73.41) TEMP(95.0)
#22 MD(2418.00) Inc(8.4) Azm(166.4) TVD(2409.04)
VS(-69.26) NS(-131.70) EW(76.99) TEMP(96.8)
#23 MD(2508.00) Inc(8.1) Azm(165.9) TVD(2498.11)
VS(-71.62) NS(-144.24) EW(80.08) TEMP(96.8)
#24 MD(2597.00) Inc(8.1) Azm(163.9) TVD(2586.22)
VS(-74.17) NS(-156.35) EW(83.34) TEMP(98.6)
#25 MD(2687.00) Inc(8.1) Azm(164.9) TVD(2675.32)
VS(-76.86) NS(-168.56) EW(86.74) TEMP(100.4)
#26 MD(2777.00) Inc(7.8) Azm(162.4) TVD(2764.46)
VS(-79.66) NS(-180.51) EW(90.23) TEMP(100.4)
#27 MD(2867.00) Inc(7.5) Azm(162.8) TVD(2853.65)
VS(-82.57) NS(-191.94) EW(93.81) TEMP(100.4)
#28 MD(2957.00) Inc(8.4) Azm(167.8) TVD(2942.79)
VS(-85.00) NS(-203.98) EW(96.93) TEMP(100.4)
#29 MD(3047.00) Inc(8.3) Azm(166.5) TVD(3031.84)
VS(-87.16) NS(-216.72) EW(99.84) TEMP(102.2)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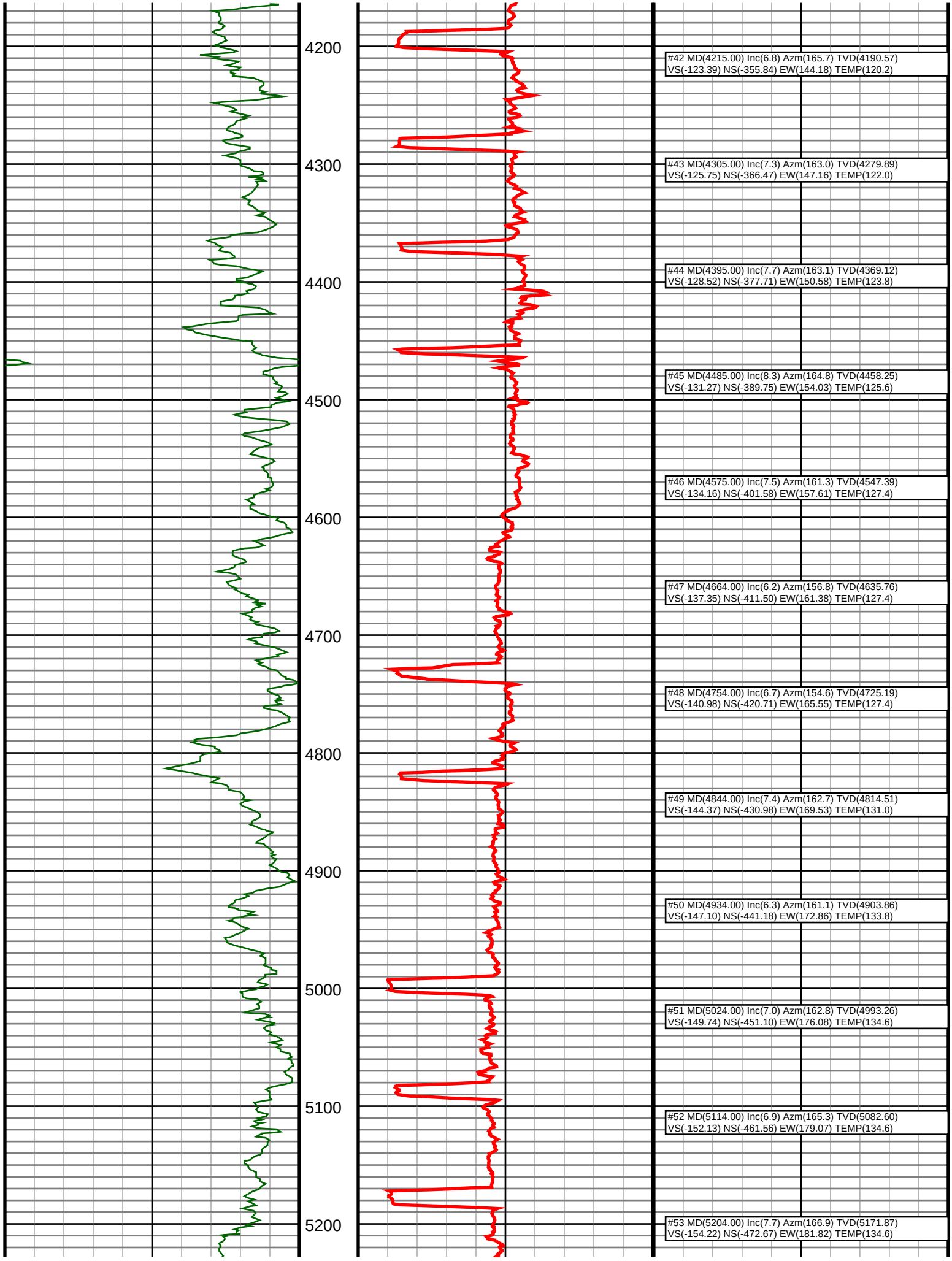
VS(-89.58) NS(-228.85) EW(102.96) TEMP(102.2)
#31 MD(3226.00) Inc(7.4) Azm(167.5) TVD(3209.19)
VS(-91.75) NS(-240.19) EW(105.79) TEMP(102.2)
#32 MD(3316.00) Inc(7.7) Azm(167.2) TVD(3298.41)
VS(-93.67) NS(-251.73) EW(108.38) TEMP(104.0)
#33 MD(3406.00) Inc(7.9) Azm(157.5) TVD(3387.58)
VS(-96.69) NS(-263.33) EW(112.08) TEMP(102.0)
#34 MD(3496.00) Inc(6.9) Azm(160.6) TVD(3476.83)
VS(-100.22) NS(-274.14) EW(116.25) TEMP(104.0)
#35 MD(3586.00) Inc(7.3) Azm(164.8) TVD(3566.14)
VS(-102.90) NS(-284.76) EW(119.54) TEMP(104.4)
#36 MD(3676.00) Inc(6.2) Azm(163.2) TVD(3655.51)
VS(-105.22) NS(-294.93) EW(122.45) TEMP(105.8)
#37 MD(3766.00) Inc(7.6) Azm(160.2) TVD(3744.86)
VS(-108.05) NS(-305.18) EW(125.88) TEMP(107.6)
#38 MD(3855.00) Inc(7.7) Azm(160.6) TVD(3833.07)
VS(-111.38) NS(-316.34) EW(129.86) TEMP(109.0)
#39 MD(3945.00) Inc(7.7) Azm(160.0) TVD(3922.26)
VS(-114.78) NS(-327.69) EW(133.93) TEMP(113.0)
#40 MD(4035.00) Inc(6.0) Azm(155.6) TVD(4011.61)
VS(-118.21) NS(-337.64) EW(137.93) TEMP(118.8)
#41 MD(4125.00) Inc(5.9) Azm(161.2) TVD(4101.13)
VS(-121.14) NS(-346.30) EW(141.37) TEMP(116.6)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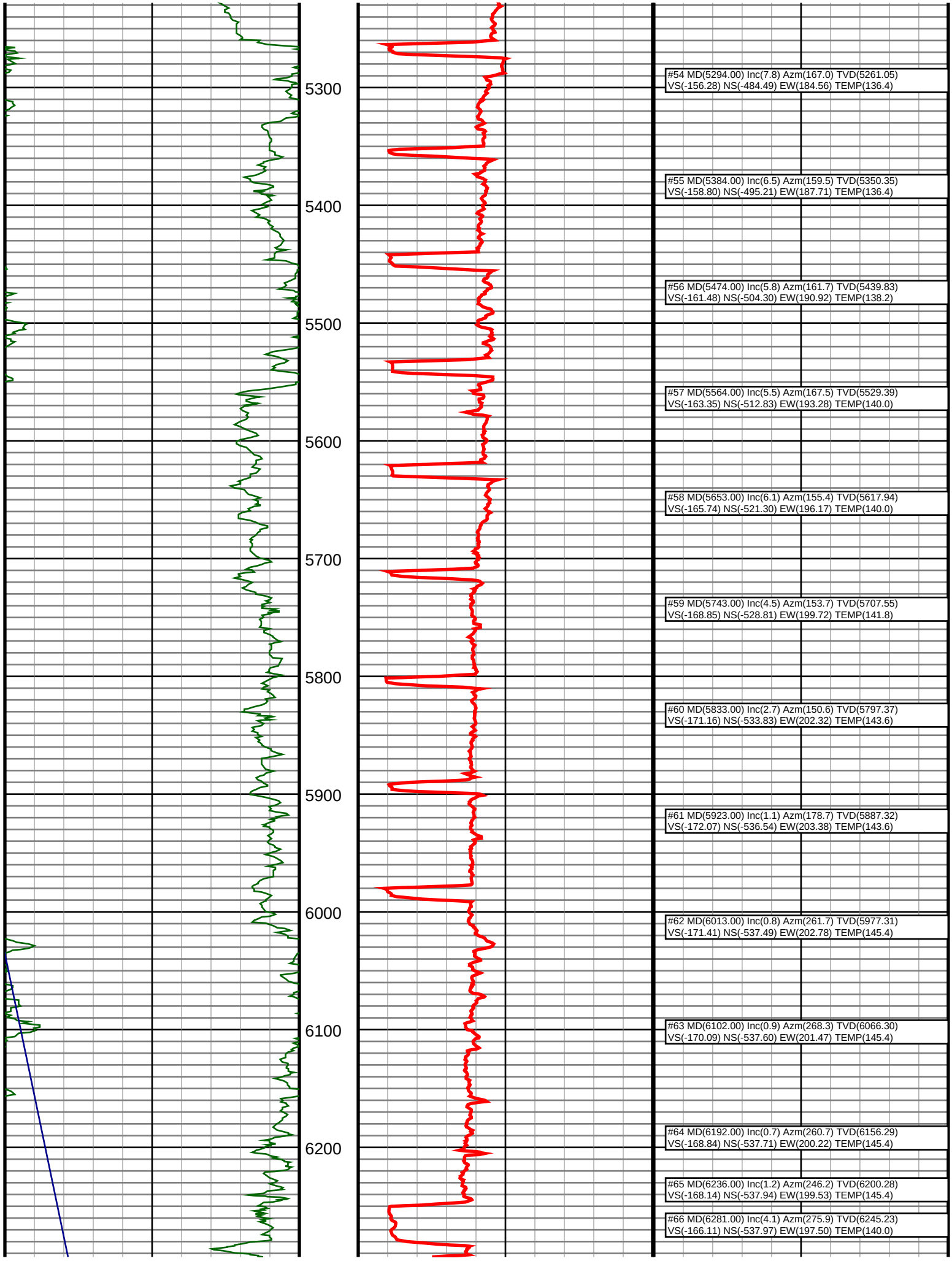
VS(-123.39) NS(-355.84) EW(144.18) TEMP(120.2)
#43 MD(4305.00) Inc(7.3) Azm(163.0) TVD(4279.89)
VS(-125.75) NS(-366.47) EW(147.16) TEMP(122.0)
#44 MD(4395.00) Inc(7.7) Azm(163.1) TVD(4369.12)
VS(-128.52) NS(-377.71) EW(150.58) TEMP(123.8)
#45 MD(4485.00) Inc(8.3) Azm(164.8) TVD(4458.25)
VS(-131.27) NS(-389.75) EW(154.03) TEMP(125.6)
#46 MD(4575.00) Inc(7.5) Azm(161.3) TVD(4547.39)
VS(-134.16) NS(-401.58) EW(157.61) TEMP(127.4)
#47 MD(4664.00) Inc(6.2) Azm(156.8) TVD(4635.76)
VS(-137.35) NS(-411.50) EW(161.38) TEMP(127.4)
#48 MD(4754.00) Inc(6.7) Azm(154.6) TVD(4725.19)
VS(-140.98) NS(-420.71) EW(165.55) TEMP(127.4)
#49 MD(4844.00) Inc(7.4) Azm(162.7) TVD(4814.51)
VS(-144.37) NS(-430.98) EW(169.53) TEMP(131.0)
#50 MD(4934.00) Inc(6.3) Azm(161.1) TVD(4903.86)
VS(-147.10) NS(-441.18) EW(172.86) TEMP(133.8)
#51 MD(5024.00) Inc(7.0) Azm(162.8) TVD(4993.26)
VS(-149.74) NS(-451.10) EW(176.08) TEMP(134.6)
#52 MD(5114.00) Inc(6.9) Azm(165.3) TVD(5082.60)
VS(-152.13) NS(-461.56) EW(179.07) TEMP(134.6)
#53 MD(5204.00) Inc(7.7) Azm(166.9) TVD(5171.87)
VS(-154.22) NS(-472.67) EW(181.82) TEMP(134.6)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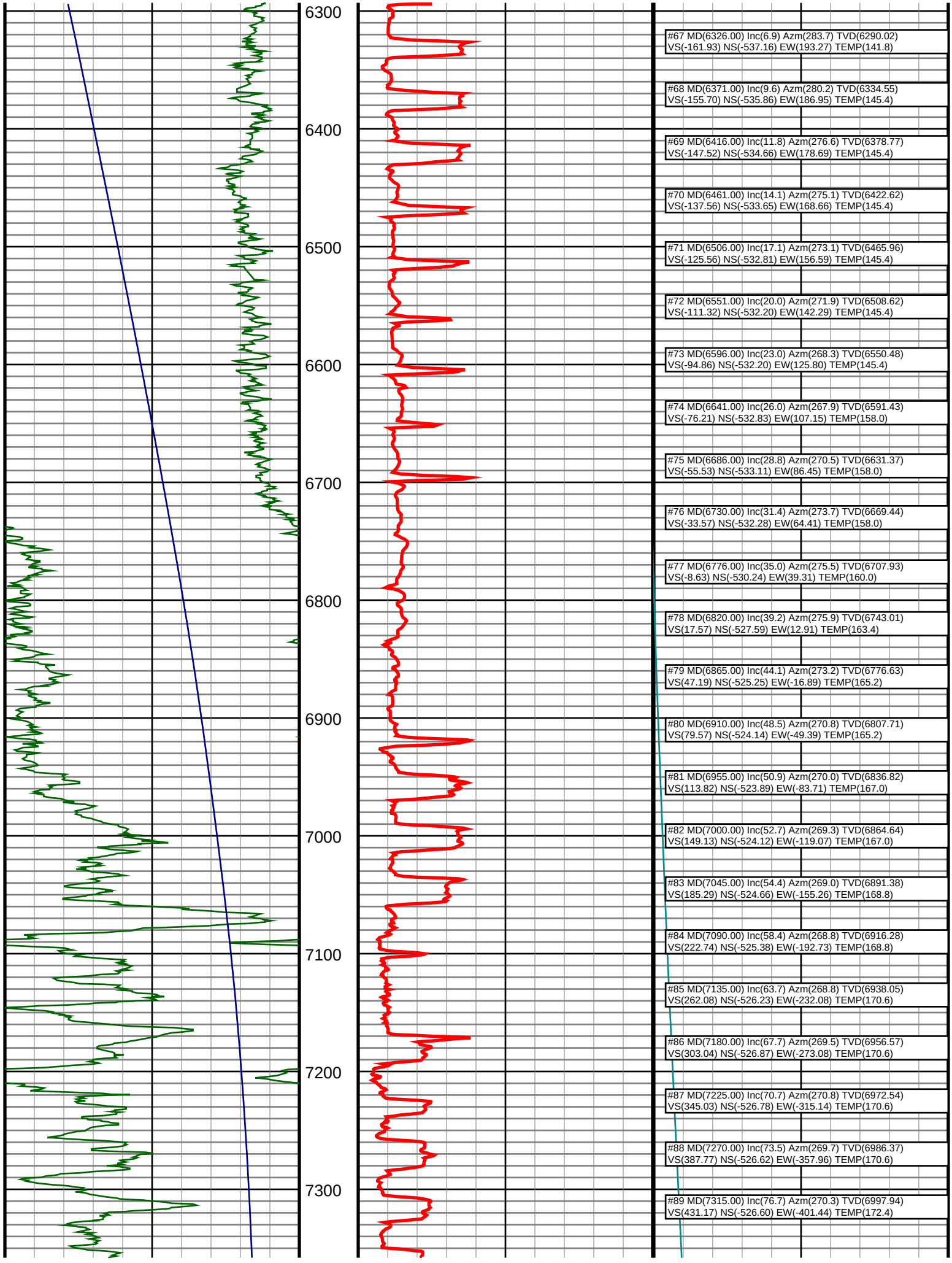
VS(-156.28) NS(-484.49) EW(184.56) TEMP(136.4)
#55 MD(5384.00) Inc(6.5) Azm(159.5) TVD(5350.35)
VS(-158.80) NS(-495.21) EW(187.71) TEMP(136.4)
#56 MD(5474.00) Inc(5.8) Azm(161.7) TVD(5439.83)
VS(-161.48) NS(-504.30) EW(190.92) TEMP(138.2)
#57 MD(5564.00) Inc(5.5) Azm(167.5) TVD(5529.39)
VS(-163.35) NS(-512.83) EW(193.28) TEMP(140.0)
#58 MD(5653.00) Inc(6.1) Azm(155.4) TVD(5617.94)
VS(-165.74) NS(-521.30) EW(196.17) TEMP(140.0)
#59 MD(5743.00) Inc(4.5) Azm(153.7) TVD(5707.55)
VS(-168.85) NS(-528.81) EW(199.72) TEMP(141.8)
#60 MD(5833.00) Inc(2.7) Azm(150.6) TVD(5797.37)
VS(-171.16) NS(-533.83) EW(202.32) TEMP(143.6)
#61 MD(5923.00) Inc(1.1) Azm(178.7) TVD(5887.32)
VS(-172.07) NS(-536.54) EW(203.38) TEMP(143.6)
#62 MD(6013.00) Inc(0.8) Azm(261.7) TVD(5977.31)
VS(-171.41) NS(-537.49) EW(202.78) TEMP(145.4)
#63 MD(6102.00) Inc(0.9) Azm(268.3) TVD(6066.30)
VS(-170.09) NS(-537.60) EW(201.47) TEMP(145.4)
#64 MD(6192.00) Inc(0.7) Azm(260.7) TVD(6156.29)
VS(-168.84) NS(-537.71) EW(200.22) TEMP(145.4)
#65 MD(6236.00) Inc(1.2) Azm(246.2) TVD(6200.28)
VS(-168.14) NS(-537.94) EW(199.53) TEMP(145.4)
#66 MD(6281.00) Inc(4.1) Azm(275.9) TVD(6245.23)
VS(-166.11) NS(-537.97) EW(197.50) TEMP(140.0)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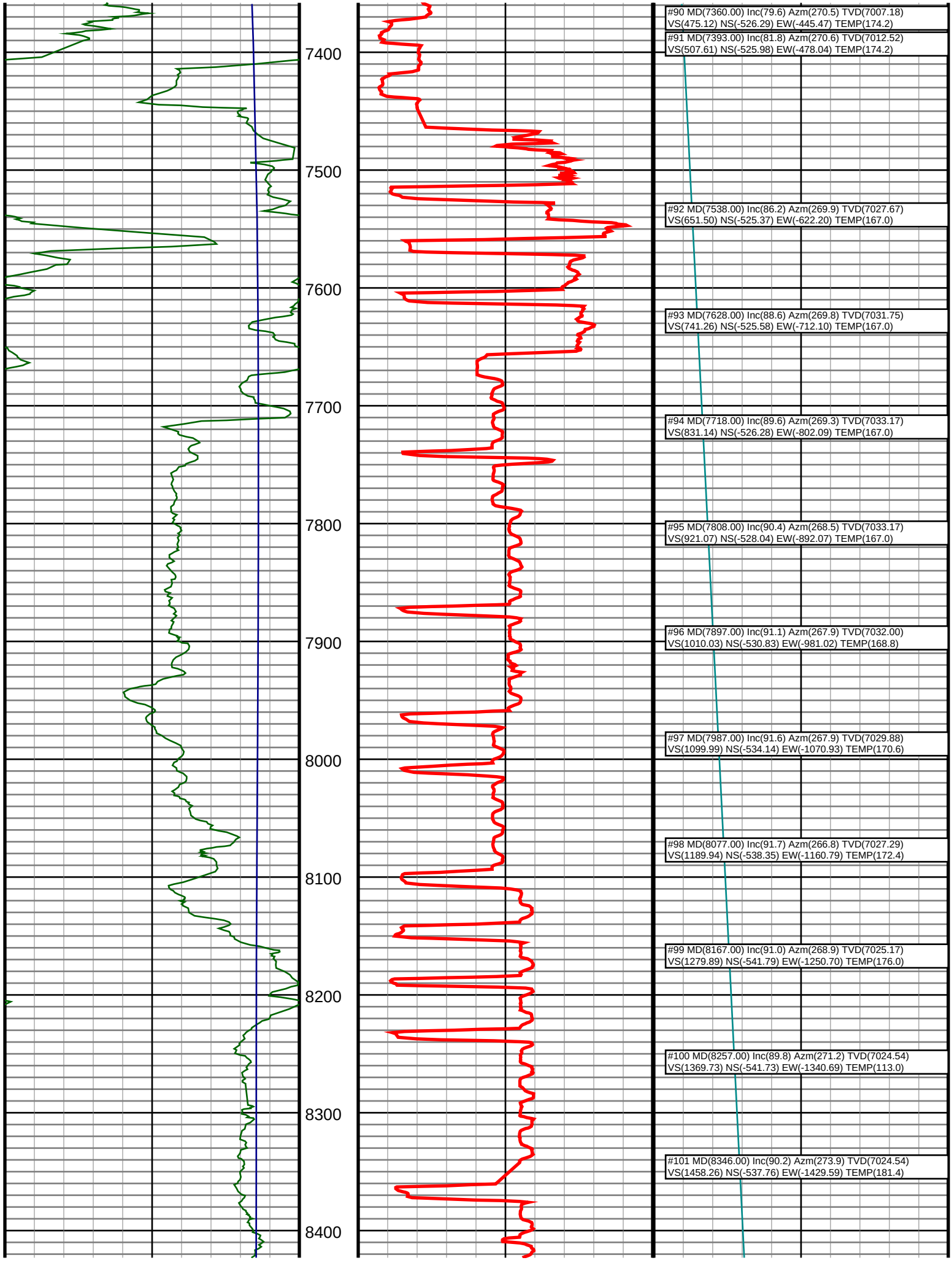
#68 MD(6371.00) Inc(9.6) Azm(280.2) TVD(6334.55) VS(-155.70) NS(-535.86) EW(186.95) TEMP(145.4)
#69 MD(6416.00) Inc(11.8) Azm(276.6) TVD(6378.77) VS(-147.52) NS(-534.66) EW(178.69) TEMP(145.4)
#70 MD(6461.00) Inc(14.1) Azm(275.1) TVD(6422.62) VS(-137.56) NS(-533.65) EW(168.66) TEMP(145.4)
#71 MD(6506.00) Inc(17.1) Azm(273.1) TVD(6465.96) VS(-125.56) NS(-532.81) EW(156.59) TEMP(145.4)
#72 MD(6551.00) Inc(20.0) Azm(271.9) TVD(6508.62) VS(-111.32) NS(-532.20) EW(142.29) TEMP(145.4)
#73 MD(6596.00) Inc(23.0) Azm(268.3) TVD(6550.48) VS(-94.86) NS(-532.20) EW(125.80) TEMP(145.4)
#74 MD(6641.00) Inc(26.0) Azm(267.9) TVD(6591.43) VS(-76.21) NS(-532.83) EW(107.15) TEMP(158.0)
#75 MD(6686.00) Inc(28.8) Azm(270.5) TVD(6631.37) VS(-55.53) NS(-533.11) EW(86.45) TEMP(158.0)
#76 MD(6730.00) Inc(31.4) Azm(273.7) TVD(6669.44) VS(-33.57) NS(-532.28) EW(64.41) TEMP(158.0)
#77 MD(6776.00) Inc(35.0) Azm(275.5) TVD(6707.93) VS(-8.63) NS(-530.24) EW(39.31) TEMP(160.0)
#78 MD(6820.00) Inc(39.2) Azm(275.9) TVD(6743.01) VS(17.57) NS(-527.59) EW(12.91) TEMP(163.4)
#79 MD(6865.00) Inc(44.1) Azm(273.2) TVD(6776.63) VS(47.19) NS(-525.25) EW(-16.89) TEMP(165.2)
#80 MD(6910.00) Inc(48.5) Azm(270.8) TVD(6807.71) VS(79.57) NS(-524.14) EW(-49.39) TEMP(165.2)
#81 MD(6955.00) Inc(50.9) Azm(270.0) TVD(6836.82) VS(113.82) NS(-523.89) EW(-83.71) TEMP(167.0)
#82 MD(7000.00) Inc(52.7) Azm(269.3) TVD(6864.64) VS(149.13) NS(-524.12) EW(-119.07) TEMP(167.0)
#83 MD(7045.00) Inc(54.4) Azm(269.0) TVD(6891.38) VS(185.29) NS(-524.66) EW(-155.26) TEMP(168.8)
#84 MD(7090.00) Inc(58.4) Azm(268.8) TVD(6916.28) VS(222.74) NS(-525.38) EW(-192.73) TEMP(168.8)
#85 MD(7135.00) Inc(63.7) Azm(268.8) TVD(6938.05) VS(262.08) NS(-526.23) EW(-232.08) TEMP(170.6)
#86 MD(7180.00) Inc(67.7) Azm(269.5) TVD(6956.57) VS(303.04) NS(-526.87) EW(-273.08) TEMP(170.6)
#87 MD(7225.00) Inc(70.7) Azm(270.8) TVD(6972.54) VS(345.03) NS(-526.78) EW(-315.14) TEMP(170.6)
#88 MD(7270.00) Inc(73.5) Azm(269.7) TVD(6986.37) VS(387.77) NS(-526.62) EW(-357.96) TEMP(170.6)
#89 MD(7315.00) Inc(76.7) Azm(270.3) TVD(6997.94) VS(431.17) NS(-526.60) EW(-401.44) TEMP(172.4)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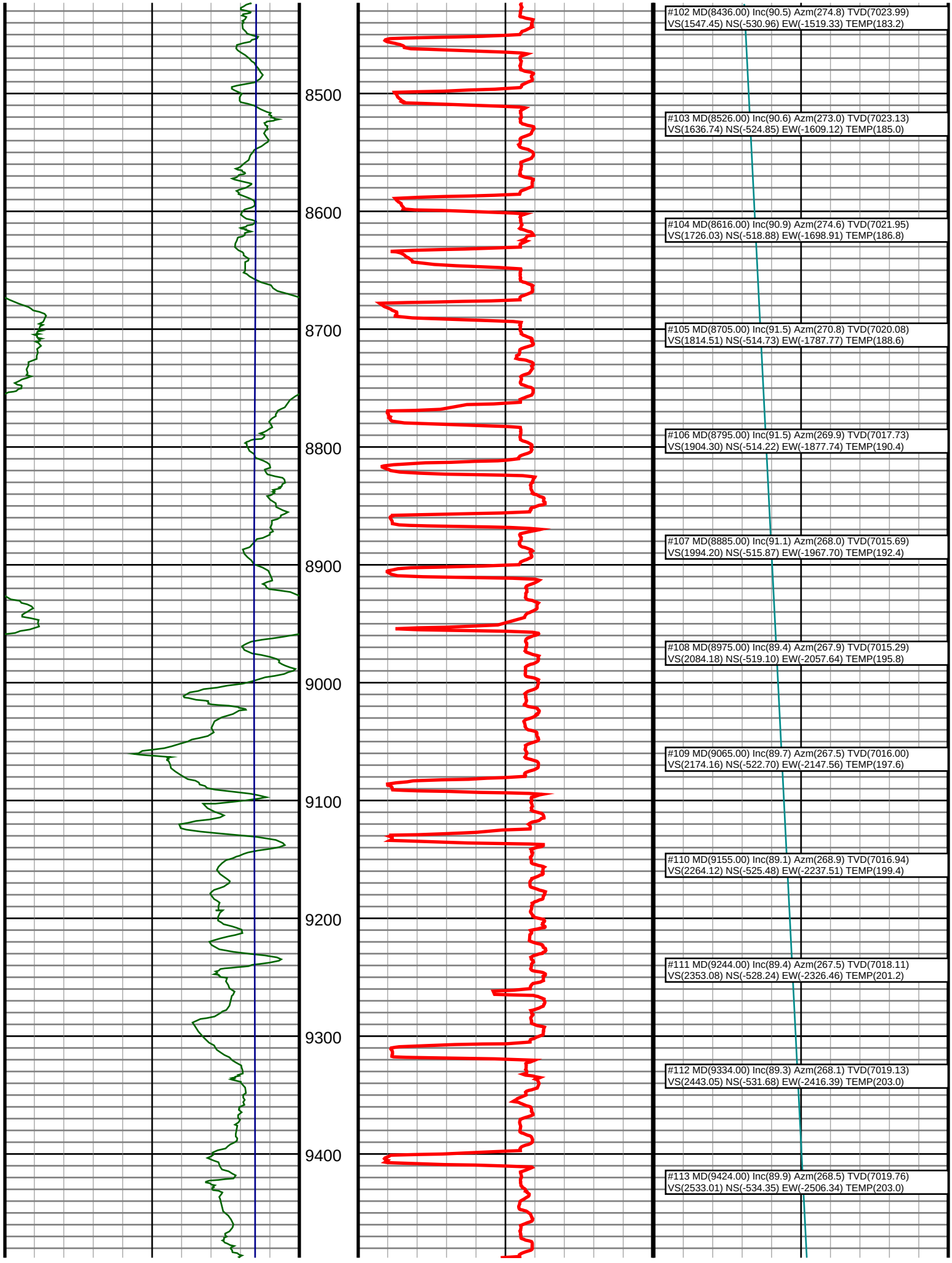
VS(475.12) NS(-526.29) EW(-445.47) TEMP(174.2)
#91 MD(7393.00) Inc(81.8) Azm(270.6) TVD(7012.52)
VS(507.61) NS(-525.98) EW(-478.04) TEMP(174.2)
#92 MD(7538.00) Inc(86.2) Azm(269.9) TVD(7027.67)
VS(651.50) NS(-525.37) EW(-622.20) TEMP(167.0)
#93 MD(7628.00) Inc(88.6) Azm(269.8) TVD(7031.75)
VS(741.26) NS(-525.58) EW(-712.10) TEMP(167.0)
#94 MD(7718.00) Inc(89.6) Azm(269.3) TVD(7033.17)
VS(831.14) NS(-526.28) EW(-802.09) TEMP(167.0)
#95 MD(7808.00) Inc(90.4) Azm(268.5) TVD(7033.17)
VS(921.07) NS(-528.04) EW(-892.07) TEMP(167.0)
#96 MD(7897.00) Inc(91.1) Azm(267.9) TVD(7032.00)
VS(1010.03) NS(-530.83) EW(-981.02) TEMP(168.8)
#97 MD(7987.00) Inc(91.6) Azm(267.9) TVD(7029.88)
VS(1099.99) NS(-534.14) EW(-1070.93) TEMP(170.6)
#98 MD(8077.00) Inc(91.7) Azm(266.8) TVD(7027.29)
VS(1189.94) NS(-538.35) EW(-1160.79) TEMP(172.4)
#99 MD(8167.00) Inc(91.0) Azm(268.9) TVD(7025.17)
VS(1279.89) NS(-541.79) EW(-1250.70) TEMP(176.0)
#100 MD(8257.00) Inc(89.8) Azm(271.2) TVD(7024.54)
VS(1369.73) NS(-541.73) EW(-1340.69) TEMP(113.0)
#101 MD(8346.00) Inc(90.2) Azm(273.9) TVD(7024.54)
VS(1458.26) NS(-537.76) EW(-1429.59) TEMP(181.4)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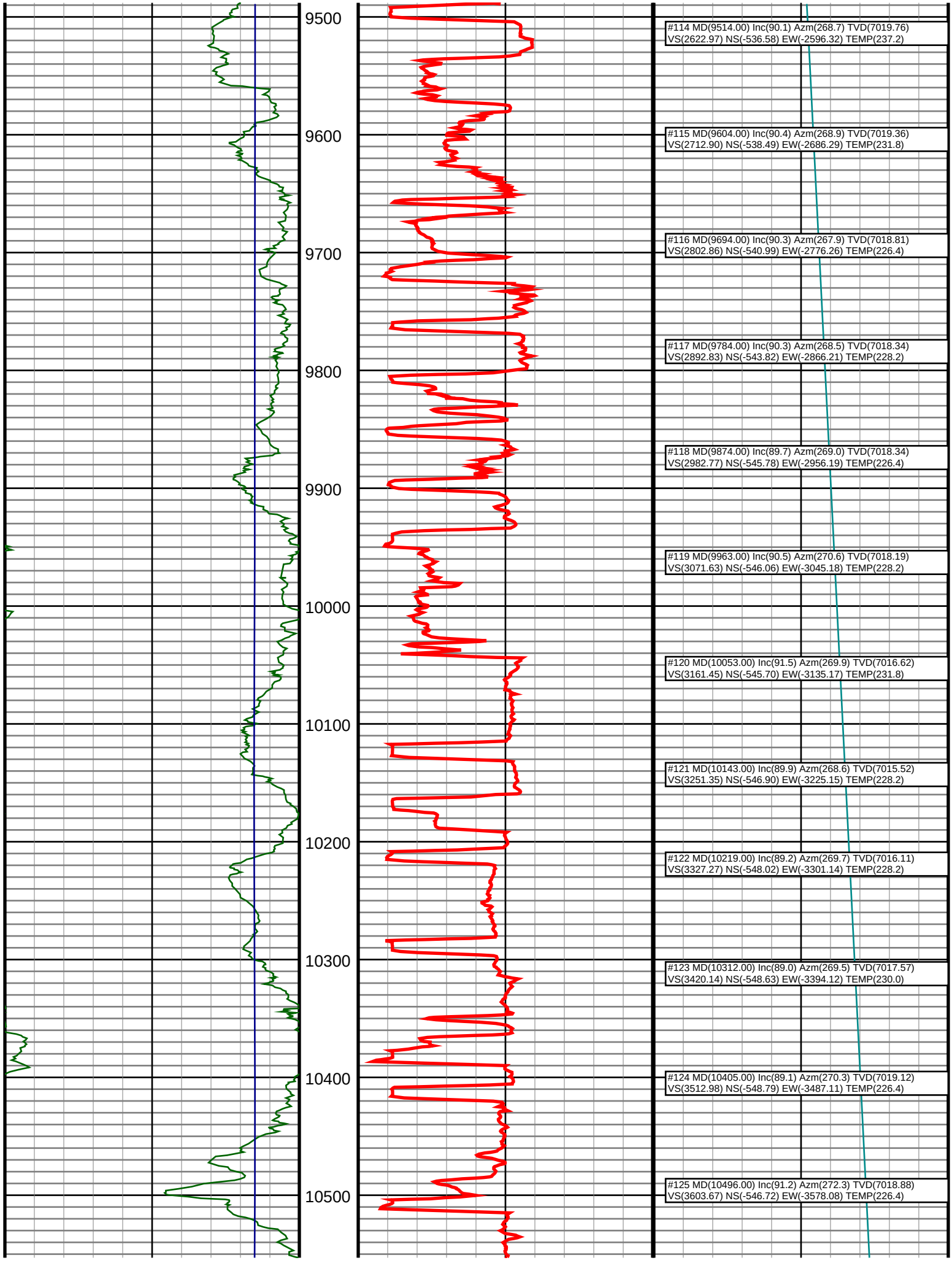
VS(1547.45) NS(-530.96) EW(-1519.33) TEMP(183.2)
#103 MD(8526.00) Inc(90.6) Azm(273.0) TVD(7023.13)
VS(1636.74) NS(-524.85) EW(-1609.12) TEMP(185.0)
#104 MD(8616.00) Inc(90.9) Azm(274.6) TVD(7021.95)
VS(1726.03) NS(-518.88) EW(-1698.91) TEMP(186.8)
#105 MD(8705.00) Inc(91.5) Azm(270.8) TVD(7020.08)
VS(1814.51) NS(-514.73) EW(-1787.77) TEMP(188.6)
#106 MD(8795.00) Inc(91.5) Azm(269.9) TVD(7017.73)
VS(1904.30) NS(-514.22) EW(-1877.74) TEMP(190.4)
#107 MD(8885.00) Inc(91.1) Azm(268.0) TVD(7015.69)
VS(1994.20) NS(-515.87) EW(-1967.70) TEMP(192.4)
#108 MD(8975.00) Inc(89.4) Azm(267.9) TVD(7015.29)
VS(2084.18) NS(-519.10) EW(-2057.64) TEMP(195.8)
#109 MD(9065.00) Inc(89.7) Azm(267.5) TVD(7016.00)
VS(2174.16) NS(-522.70) EW(-2147.56) TEMP(197.6)
#110 MD(9155.00) Inc(89.1) Azm(268.9) TVD(7016.94)
VS(2264.12) NS(-525.48) EW(-2237.51) TEMP(199.4)
#111 MD(9244.00) Inc(89.4) Azm(267.5) TVD(7018.11)
VS(2353.08) NS(-528.24) EW(-2326.46) TEMP(201.2)
#112 MD(9334.00) Inc(89.3) Azm(268.1) TVD(7019.13)
VS(2443.05) NS(-531.68) EW(-2416.39) TEMP(203.0)
#113 MD(9424.00) Inc(89.9) Azm(268.5) TVD(7019.76)
VS(2533.01) NS(-534.35) EW(-2506.34) TEMP(203.0)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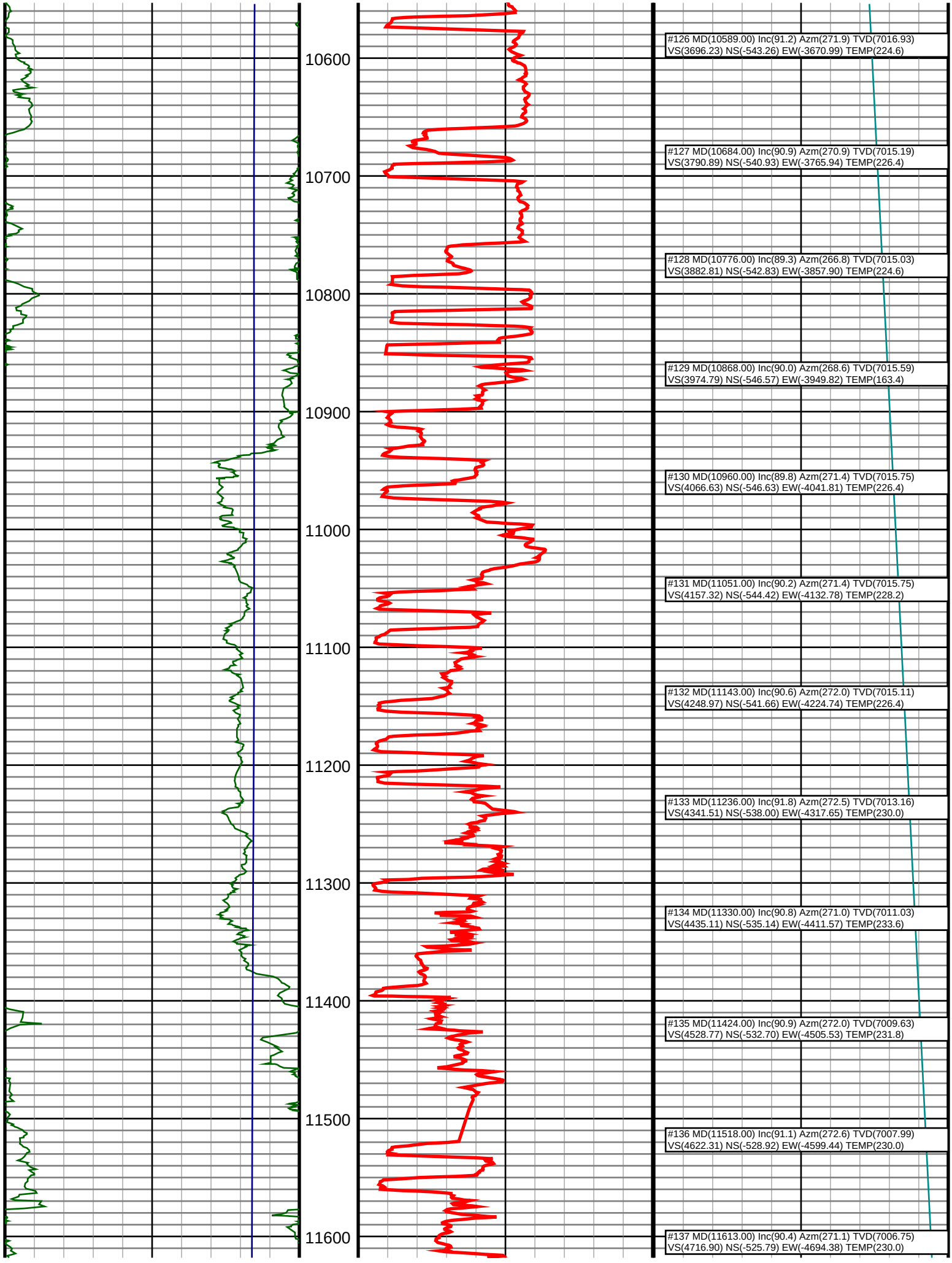
#114 MD(9514.00) Inc(90.1) Azm(268.7) TVD(7019.76)
VS(2622.97) NS(-536.58) EW(-2596.32) TEMP(237.2)
#115 MD(9604.00) Inc(90.4) Azm(268.9) TVD(7019.36)
VS(2712.90) NS(-538.49) EW(-2686.29) TEMP(231.8)
#116 MD(9694.00) Inc(90.3) Azm(267.9) TVD(7018.81)
VS(2802.86) NS(-540.99) EW(-2776.26) TEMP(226.4)
#117 MD(9784.00) Inc(90.3) Azm(268.5) TVD(7018.34)
VS(2892.83) NS(-543.82) EW(-2866.21) TEMP(228.2)
#118 MD(9874.00) Inc(89.7) Azm(269.0) TVD(7018.34)
VS(2982.77) NS(-545.78) EW(-2956.19) TEMP(226.4)
#119 MD(9963.00) Inc(90.5) Azm(270.6) TVD(7018.19)
VS(3071.63) NS(-546.06) EW(-3045.18) TEMP(228.2)
#120 MD(10053.00) Inc(91.5) Azm(269.9) TVD(7016.62)
VS(3161.45) NS(-545.70) EW(-3135.17) TEMP(231.8)
#121 MD(10143.00) Inc(89.9) Azm(268.6) TVD(7015.52)
VS(3251.35) NS(-546.90) EW(-3225.15) TEMP(228.2)
#122 MD(10219.00) Inc(89.2) Azm(269.7) TVD(7016.11)
VS(3327.27) NS(-548.02) EW(-3301.14) TEMP(228.2)
#123 MD(10312.00) Inc(89.0) Azm(269.5) TVD(7017.57)
VS(3420.14) NS(-548.63) EW(-3394.12) TEMP(230.0)
#124 MD(10405.00) Inc(89.1) Azm(270.3) TVD(7019.12)
VS(3512.98) NS(-548.79) EW(-3487.11) TEMP(226.4)
#125 MD(10496.00) Inc(91.2) Azm(272.3) TVD(7018.88)
VS(3603.67) NS(-546.72) EW(-3578.08) TEMP(226.4)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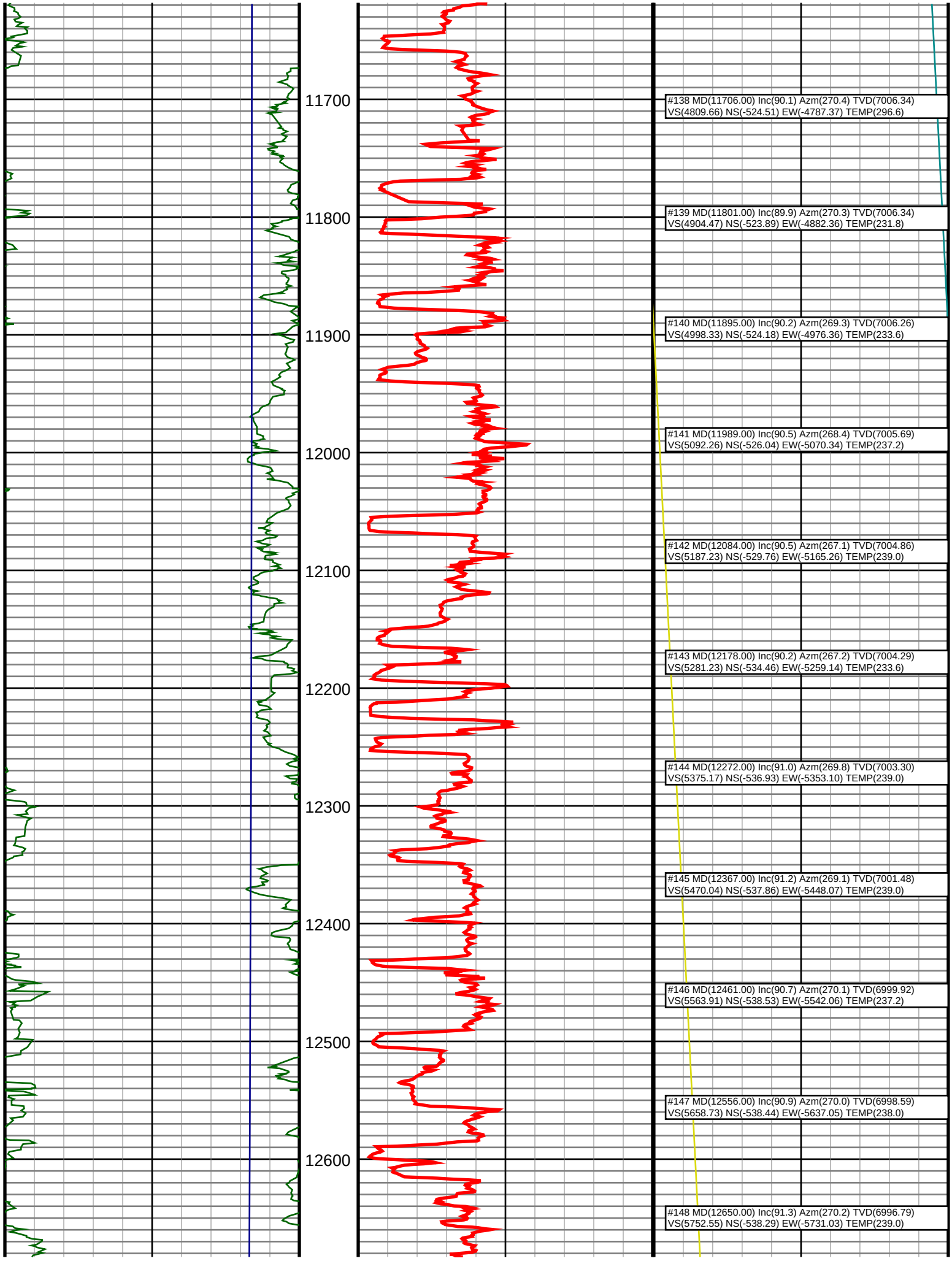
VS(3696.23) NS(-543.26) EW(-3670.99) TEMP(224.6)
#127 MD(10684.00) Inc(90.9) Azm(270.9) TVD(7015.19)
VS(3790.89) NS(-540.93) EW(-3765.94) TEMP(226.4)
#128 MD(10776.00) Inc(89.3) Azm(266.8) TVD(7015.03)
VS(3882.81) NS(-542.83) EW(-3857.90) TEMP(224.6)
#129 MD(10868.00) Inc(90.0) Azm(268.6) TVD(7015.59)
VS(3974.79) NS(-546.57) EW(-3949.82) TEMP(163.4)
#130 MD(10960.00) Inc(89.8) Azm(271.4) TVD(7015.75)
VS(4066.63) NS(-546.63) EW(-4041.81) TEMP(226.4)
#131 MD(11051.00) Inc(90.2) Azm(271.4) TVD(7015.75)
VS(4157.32) NS(-544.42) EW(-4132.78) TEMP(228.2)
#132 MD(11143.00) Inc(90.6) Azm(272.0) TVD(7015.11)
VS(4248.97) NS(-541.66) EW(-4224.74) TEMP(226.4)
#133 MD(11236.00) Inc(91.8) Azm(272.5) TVD(7013.16)
VS(4341.51) NS(-538.00) EW(-4317.65) TEMP(230.0)
#134 MD(11330.00) Inc(90.8) Azm(271.0) TVD(7011.03)
VS(4435.11) NS(-535.14) EW(-4411.57) TEMP(233.6)
#135 MD(11424.00) Inc(90.9) Azm(272.0) TVD(7009.63)
VS(4528.77) NS(-532.70) EW(-4505.53) TEMP(231.8)
#136 MD(11518.00) Inc(91.1) Azm(272.6) TVD(7007.99)
VS(4622.31) NS(-528.92) EW(-4599.44) TEMP(230.0)
#137 MD(11613.00) Inc(90.4) Azm(271.1) TVD(7006.75)
VS(4716.90) NS(-525.79) EW(-4694.38) TEMP(230.0)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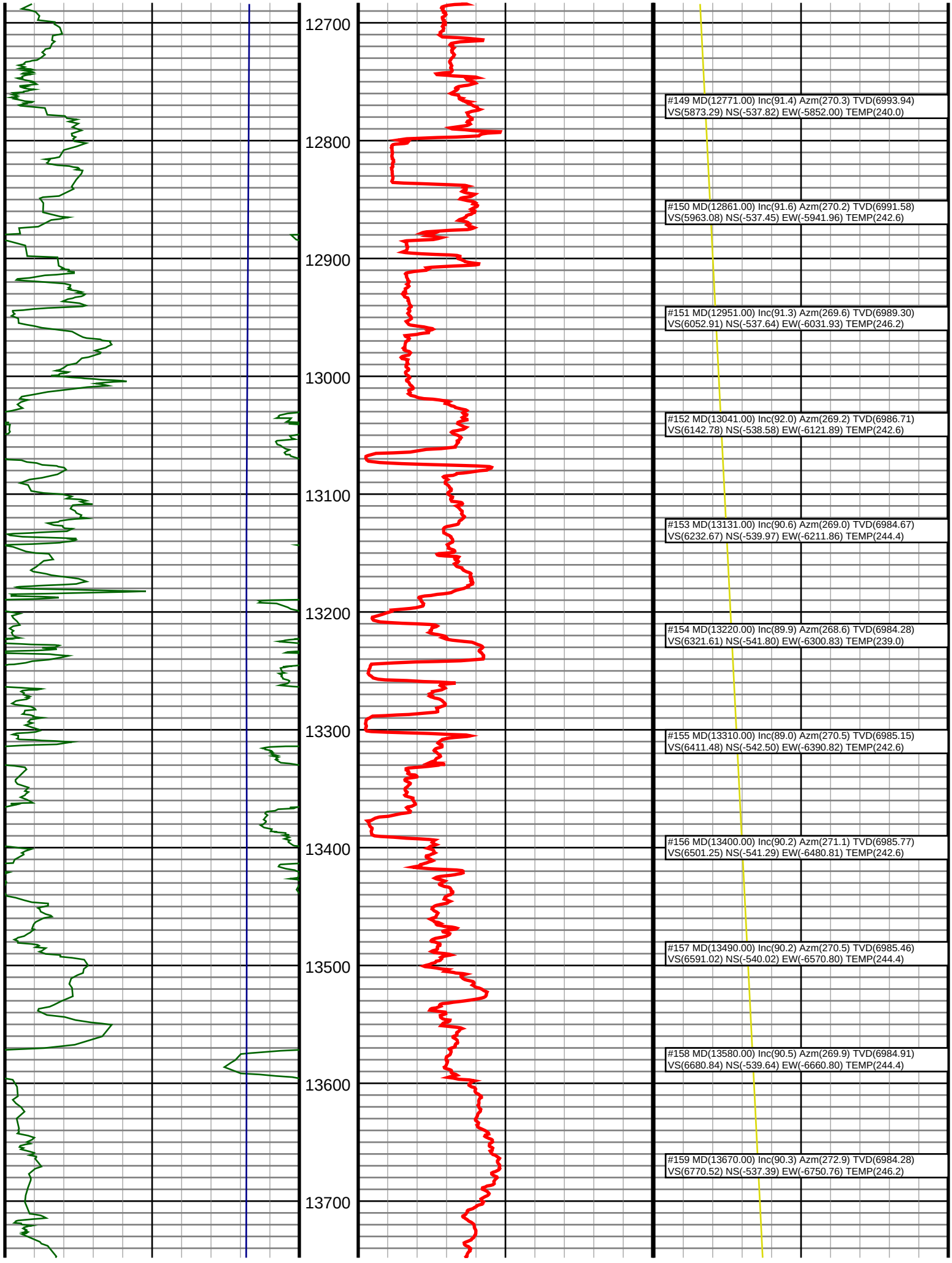
VS(4809.66) NS(-524.51) EW(-4787.37) TEMP(296.6)
#139 MD(11801.00) Inc(89.9) Azm(270.3) TVD(7006.34)
VS(4904.47) NS(-523.89) EW(-4882.36) TEMP(231.8)
#140 MD(11895.00) Inc(90.2) Azm(269.3) TVD(7006.26)
VS(4998.33) NS(-524.18) EW(-4976.36) TEMP(233.6)
#141 MD(11989.00) Inc(90.5) Azm(268.4) TVD(7005.69)
VS(5092.26) NS(-526.04) EW(-5070.34) TEMP(237.2)
#142 MD(12084.00) Inc(90.5) Azm(267.1) TVD(7004.86)
VS(5187.23) NS(-529.76) EW(-5165.26) TEMP(239.0)
#143 MD(12178.00) Inc(90.2) Azm(267.2) TVD(7004.29)
VS(5281.23) NS(-534.46) EW(-5259.14) TEMP(233.6)
#144 MD(12272.00) Inc(91.0) Azm(269.8) TVD(7003.30)
VS(5375.17) NS(-536.93) EW(-5353.10) TEMP(239.0)
#145 MD(12367.00) Inc(91.2) Azm(269.1) TVD(7001.48)
VS(5470.04) NS(-537.86) EW(-5448.07) TEMP(239.0)
#146 MD(12461.00) Inc(90.7) Azm(270.1) TVD(6999.92)
VS(5563.91) NS(-538.53) EW(-5542.06) TEMP(237.2)
#147 MD(12556.00) Inc(90.9) Azm(270.0) TVD(6998.59)
VS(5658.73) NS(-538.44) EW(-5637.05) TEMP(238.0)
#148 MD(12650.00) Inc(91.3) Azm(270.2) TVD(6996.79)
VS(5752.55) NS(-538.29) EW(-5731.03) TEMP(239.0)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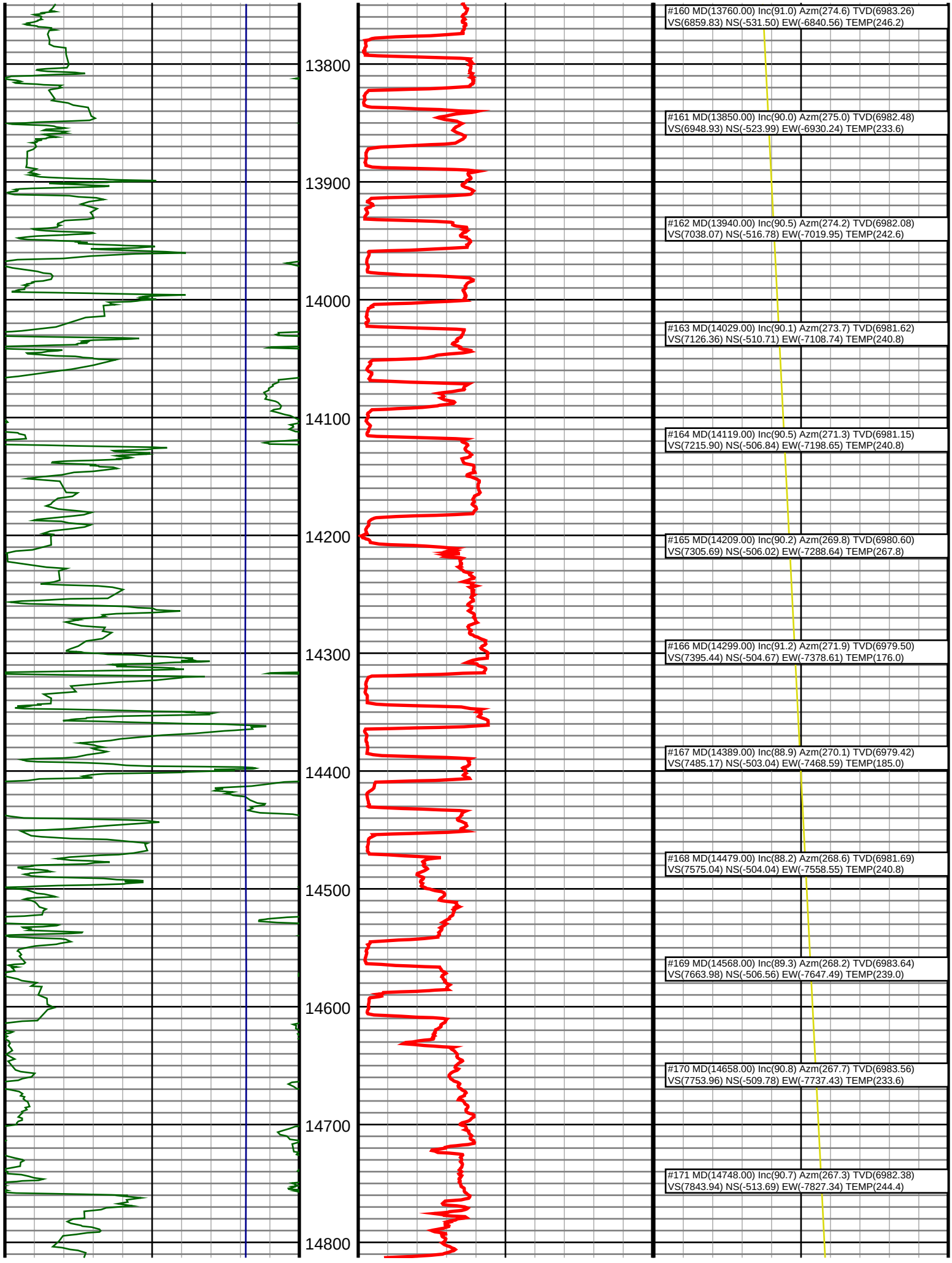
#149 MD(12771.00) Inc(91.4) Azm(270.3) TVD(6993.94)
VS(5873.29) NS(-537.82) EW(-5852.00) TEMP(240.0)
#150 MD(12861.00) Inc(91.6) Azm(270.2) TVD(6991.58)
VS(5963.08) NS(-537.45) EW(-5941.96) TEMP(242.6)
#151 MD(12951.00) Inc(91.3) Azm(269.6) TVD(6989.30)
VS(6052.91) NS(-537.64) EW(-6031.93) TEMP(246.2)
#152 MD(13041.00) Inc(92.0) Azm(269.2) TVD(6986.71)
VS(6142.78) NS(-538.58) EW(-6121.89) TEMP(242.6)
#153 MD(13131.00) Inc(90.6) Azm(269.0) TVD(6984.67)
VS(6232.67) NS(-539.97) EW(-6211.86) TEMP(244.4)
#154 MD(13220.00) Inc(89.9) Azm(268.6) TVD(6984.28)
VS(6321.61) NS(-541.80) EW(-6300.83) TEMP(239.0)
#155 MD(13310.00) Inc(89.0) Azm(270.5) TVD(6985.15)
VS(6411.48) NS(-542.50) EW(-6390.82) TEMP(242.6)
#156 MD(13400.00) Inc(90.2) Azm(271.1) TVD(6985.77)
VS(6501.25) NS(-541.29) EW(-6480.81) TEMP(242.6)
#157 MD(13490.00) Inc(90.2) Azm(270.5) TVD(6985.46)
VS(6591.02) NS(-540.02) EW(-6570.80) TEMP(244.4)
#158 MD(13580.00) Inc(90.5) Azm(269.9) TVD(6984.91)
VS(6680.84) NS(-539.64) EW(-6660.80) TEMP(244.4)
#159 MD(13670.00) Inc(90.3) Azm(272.9) TVD(6984.28)
VS(6770.52) NS(-537.39) EW(-6750.76) TEMP(246.2)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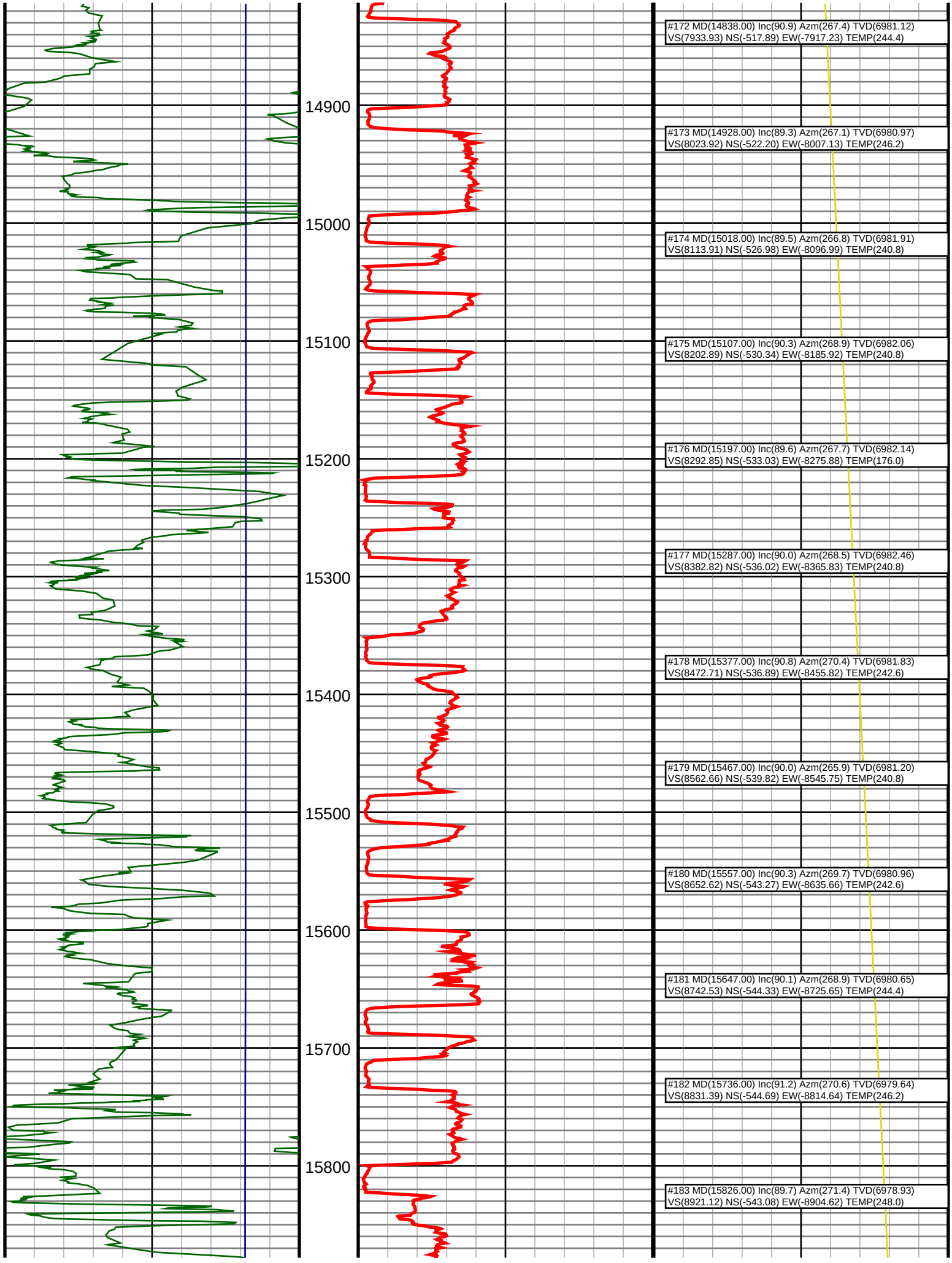
#160 MD(13760.00) Inc(91.0) Azm(274.6) TVD(6983.26)
VS(6859.83) NS(-531.50) EW(-6840.56) TEMP(246.2)
#161 MD(13850.00) Inc(90.0) Azm(275.0) TVD(6982.48)
VS(6948.93) NS(-523.99) EW(-6930.24) TEMP(233.6)
#162 MD(13940.00) Inc(90.5) Azm(274.2) TVD(6982.08)
VS(7038.07) NS(-516.78) EW(-7019.95) TEMP(242.6)
#163 MD(14029.00) Inc(90.1) Azm(273.7) TVD(6981.62)
VS(7126.36) NS(-510.71) EW(-7108.74) TEMP(240.8)
#164 MD(14119.00) Inc(90.5) Azm(271.3) TVD(6981.15)
VS(7215.90) NS(-506.84) EW(-7198.65) TEMP(240.8)
#165 MD(14209.00) Inc(90.2) Azm(269.8) TVD(6980.60)
VS(7305.69) NS(-506.02) EW(-7288.64) TEMP(267.8)
#166 MD(14299.00) Inc(91.2) Azm(271.9) TVD(6979.50)
VS(7395.44) NS(-504.67) EW(-7378.61) TEMP(176.0)
#167 MD(14389.00) Inc(88.9) Azm(270.1) TVD(6979.42)
VS(7485.17) NS(-503.04) EW(-7468.59) TEMP(185.0)
#168 MD(14479.00) Inc(88.2) Azm(268.6) TVD(6981.69)
VS(7575.04) NS(-504.04) EW(-7558.55) TEMP(240.8)
#169 MD(14568.00) Inc(89.3) Azm(268.2) TVD(6983.64)
VS(7663.98) NS(-506.56) EW(-7647.49) TEMP(239.0)
#170 MD(14658.00) Inc(90.8) Azm(267.7) TVD(6983.56)
VS(7753.96) NS(-509.78) EW(-7737.43) TEMP(233.6)
#171 MD(14748.00) Inc(90.7) Azm(267.3) TVD(6982.38)
VS(7843.94) NS(-513.69) EW(-7827.34) TEMP(244.4)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15000
15100
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15500
15600
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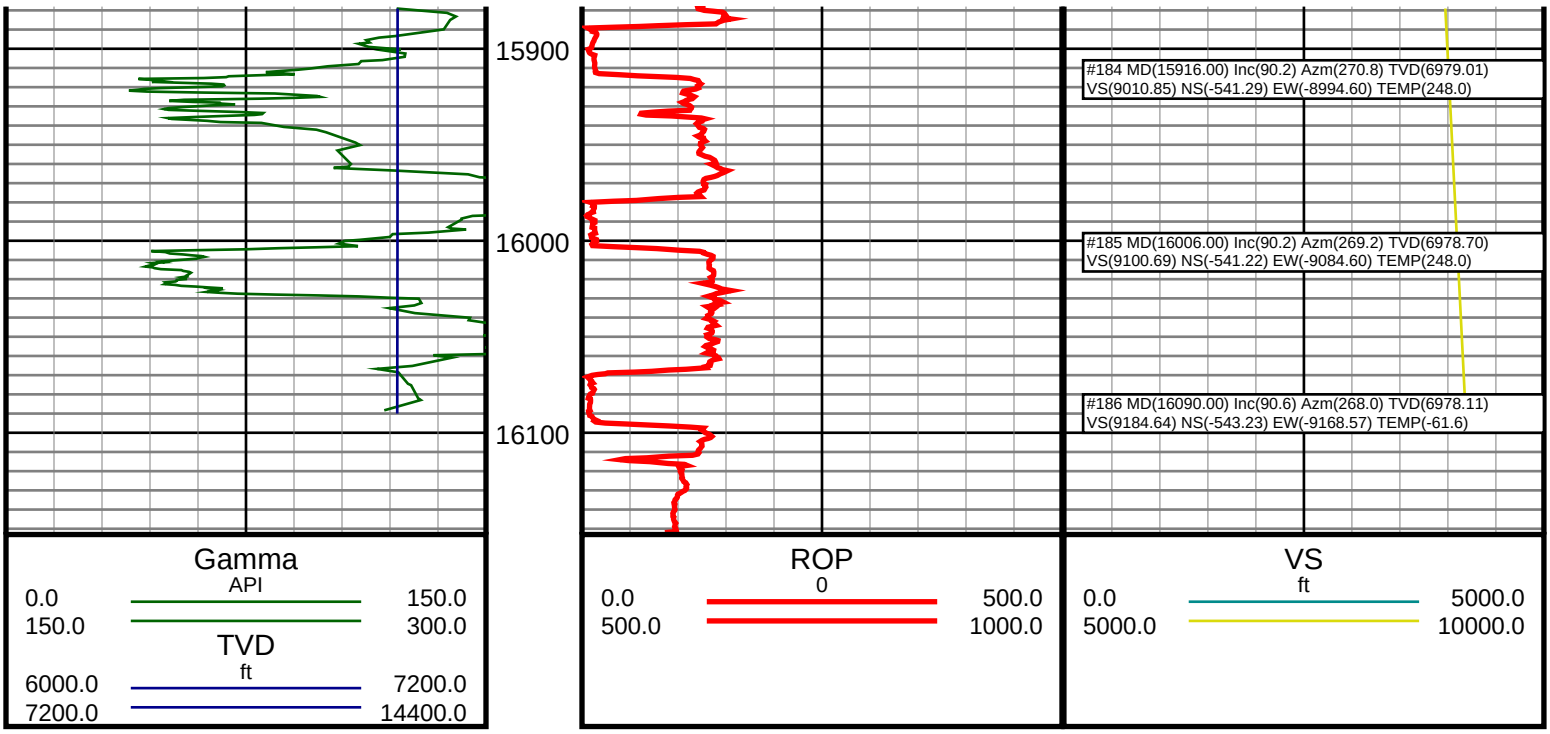
15800
#172 MD(14838.00) Inc(90.9) Azm(267.4) TVD(6981.12)
VS(7933.93) NS(-517.89) EW(-7917.23) TEMP(244.4)
#173 MD(14928.00) Inc(89.3) Azm(267.1) TVD(6980.97)
VS(8023.92) NS(-522.20) EW(-8007.13) TEMP(246.2)
#174 MD(15018.00) Inc(89.5) Azm(266.8) TVD(6981.91)
VS(8113.91) NS(-526.98) EW(-8096.99) TEMP(240.8)
#175 MD(15107.00) Inc(90.3) Azm(268.9) TVD(6982.06)
VS(8202.89) NS(-530.34) EW(-8185.92) TEMP(240.8)
#176 MD(15197.00) Inc(89.6) Azm(267.7) TVD(6982.14)
VS(8292.85) NS(-533.03) EW(-8275.88) TEMP(176.0)
#177 MD(15287.00) Inc(90.0) Azm(268.5) TVD(6982.46)
VS(8382.82) NS(-536.02) EW(-8365.83) TEMP(240.8)
#178 MD(15377.00) Inc(90.8) Azm(270.4) TVD(6981.83)
VS(8472.71) NS(-536.89) EW(-8455.82) TEMP(242.6)
#179 MD(15467.00) Inc(90.0) Azm(265.9) TVD(6981.20)
VS(8562.66) NS(-539.82) EW(-8545.75) TEMP(240.8)
#180 MD(15557.00) Inc(90.3) Azm(269.7) TVD(6980.96)
VS(8652.62) NS(-543.27) EW(-8635.66) TEMP(242.6)
#181 MD(15647.00) Inc(90.1) Azm(268.9) TVD(6980.65)
VS(8742.53) NS(-544.33) EW(-8725.65) TEMP(244.4)
#182 MD(15736.00) Inc(91.2) Azm(270.6) TVD(6979.64)
VS(8831.39) NS(-544.69) EW(-8814.64) TEMP(246.2)
#183 MD(15826.00) Inc(89.7) Azm(271.4) TVD(6978.93)
VS(8921.12) NS(-543.08) EW(-8904.62) TEMP(248.0)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#184 MD(15916.00) Inc(90.2) Azm(270.8) TVD(6979.01)
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#185 MD(16006.00) Inc(90.2) Azm(269.2) TVD(6978.70)
VS(9100.69) NS(-541.22) EW(-9084.60) TEMP(248.0)
#186 MD(16090.00) Inc(90.6) Azm(268.0) TVD(6978.11)
VS(9184.64) NS(-543.23) EW(-9168.57) TEMP(-61.6)
Gamma
API
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150.0
150.0
300.0
TVD
ft
6000.0
7200.0
7200.0
14400.0
ROP
0
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500.0
500.0
1000.0
VS
ft
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5000.0
5000.0
10000.0