ENSIGN Directional

Pronghorn F-J-15HNB

MD
5":100'

Company: Bonanza Creek
Well Name: Pronghorn F-J-15HNB
UWI or LSD: 05-123-36416-00
Rig Id: Ensign 128
State: Colorado
County/Parish: Weld
Country: USA
Survey Company: Ensign Directional
Job number: 128-338
Company Rep 1: Kenny Grahm
Directional 1: Ian Ensell
Directional 2: James Allen
MWD Operator 1: Wade Eldridge
MWD Operator 2: Arin Hatfield

Log measurements: Gamma
Depth measured from: 5600
Maximum temperature: 206.6

	Depth	Date
Start:	5500 ft	03/16/2013
End:	ft	

Casing	Depth	Size
Surface:	455	9 5/8
Intermediate:	6565	8.75

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

Elevations
KB: 4664
GL: 4649
DF: 4664

Run	Bit Size	Offsets Gamma	Offsets Survey	Depths Start	Depths End	Dates Start	Dates End
1	12.25	0.00	0.00	0	455	03/13/2013	03/13/2013
2	8.75	0.00	0.00	455	5529	03/14/2013	03/15/2013
3	8.75	35.95	46.53	5529	6575	03/16/2013	03/17/2013
4	6.125	39.70	50.29	6575	10722	03/18/2013	03/21/2013
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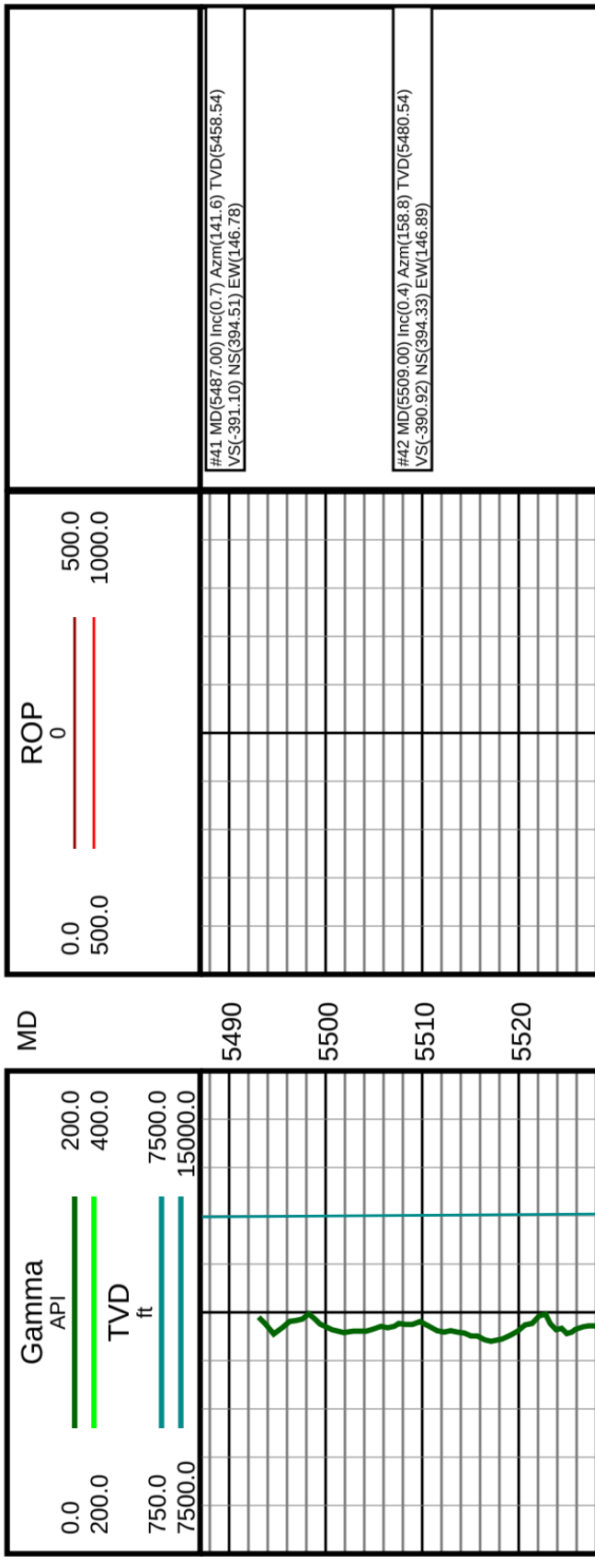
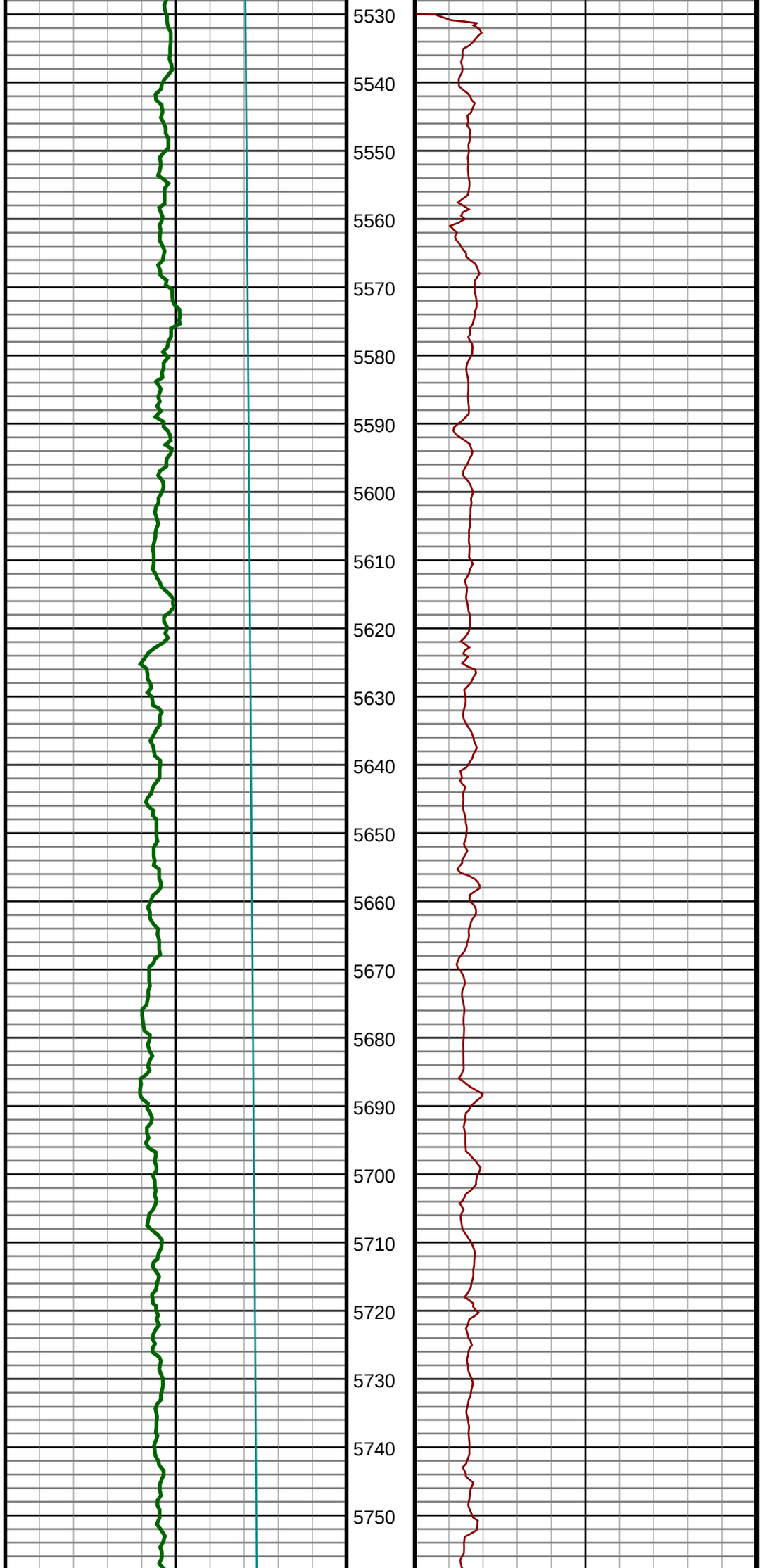
Ensign Directional uses its best efforts to provide its customers with accurate information and interpretations in conjunction with services performed but will not be held liable or responsible for the accuracy of such information or interpretation.





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#44 MD(5572.00) Inc(4.7) Azm(190.5) TVD(5543.48)
VS(-388.55) NS(391.95) EW(146.49)

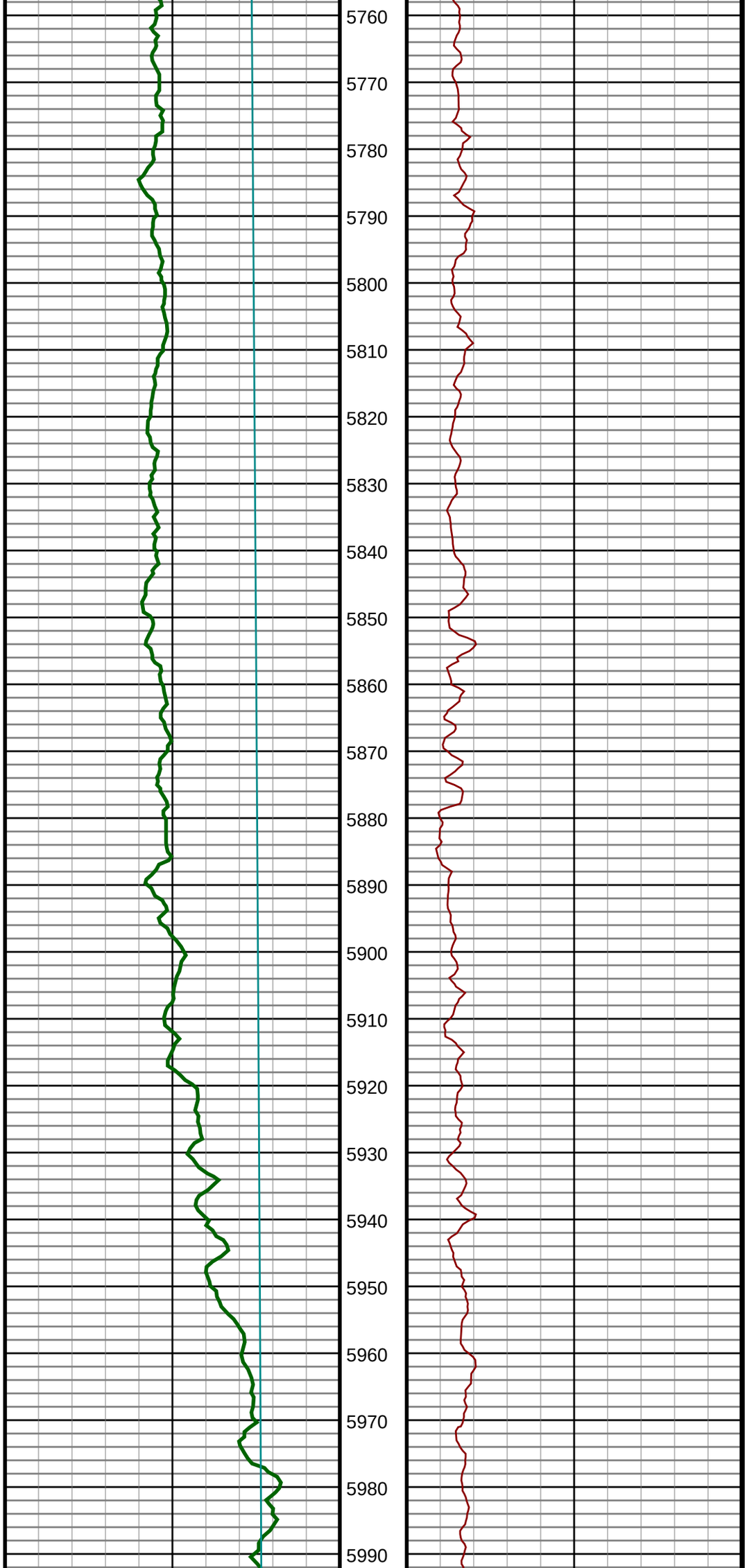
#45 MD(5604.00) Inc(8.0) Azm(187.5) TVD(5575.28)
VS(-385.07) NS(388.45) EW(145.96)

#46 MD(5636.00) Inc(11.0) Azm(186.3) TVD(5606.83)
VS(-379.84) NS(383.21) EW(145.33)

#47 MD(5668.00) Inc(13.1) Azm(185.7) TVD(5638.13)
VS(-373.22) NS(376.57) EW(144.64)

#48 MD(5700.00) Inc(15.1) Azm(187.8) TVD(5669.16)
VS(-365.50) NS(368.83) EW(143.71)

#49 MD(5732.00) Inc(17.9) Azm(188.9) TVD(5699.84)
VS(-356.54) NS(359.84) EW(142.39)



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VS(-346.40) NS(349.66) EW(140.86)

#51 MD(5795.00) Inc(23.7) Azm(187.1) TVD(5758.68)
VS(-334.40) NS(337.62) EW(139.25)

#52 MD(5827.00) Inc(27.2) Azm(184.1) TVD(5787.57)
VS(-320.75) NS(323.94) EW(137.93)

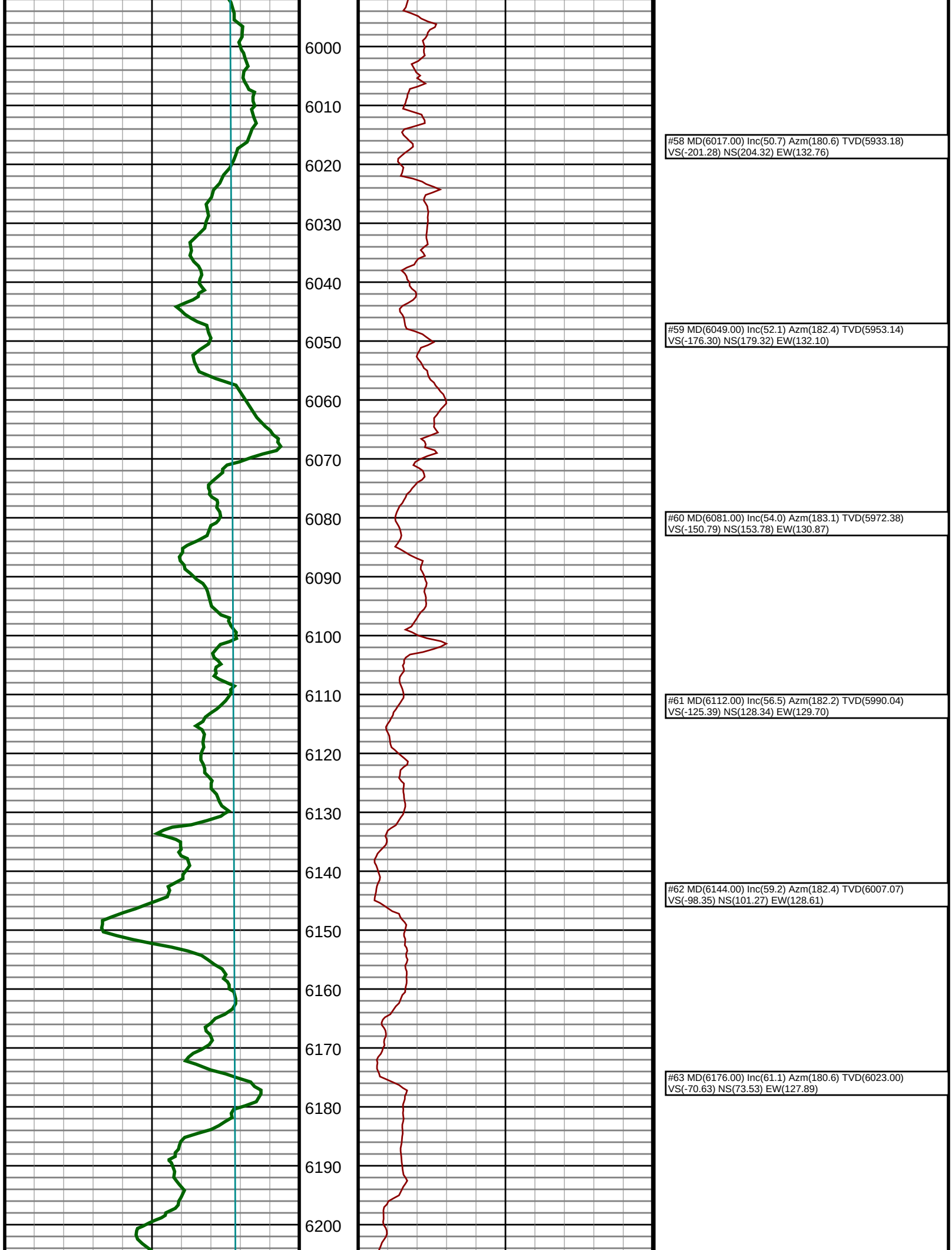
#53 MD(5858.00) Inc(31.0) Azm(183.4) TVD(5814.66)
VS(-305.74) NS(308.90) EW(136.95)

#54 MD(5890.00) Inc(35.0) Azm(183.1) TVD(5841.49)
VS(-288.37) NS(291.50) EW(135.97)

#55 MD(5922.00) Inc(39.4) Azm(182.6) TVD(5866.97)
VS(-269.08) NS(272.18) EW(135.01)

#56 MD(5953.00) Inc(43.9) Azm(182.2) TVD(5890.13)
VS(-248.52) NS(251.61) EW(134.15)

#57 MD(5985.00) Inc(48.1) Azm(182.0) TVD(5912.35)
VS(-225.55) NS(228.61) EW(133.31)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VS(-201.28) NS(204.32) EW(132.76)
#59 MD(6049.00) Inc(52.1) Azm(182.4) TVD(5953.14)
VS(-176.30) NS(179.32) EW(132.10)
#60 MD(6081.00) Inc(54.0) Azm(183.1) TVD(5972.38)
VS(-150.79) NS(153.78) EW(130.87)
#61 MD(6112.00) Inc(56.5) Azm(182.2) TVD(5990.04)
VS(-125.39) NS(128.34) EW(129.70)
#62 MD(6144.00) Inc(59.2) Azm(182.4) TVD(6007.07)
VS(-98.35) NS(101.27) EW(128.61)
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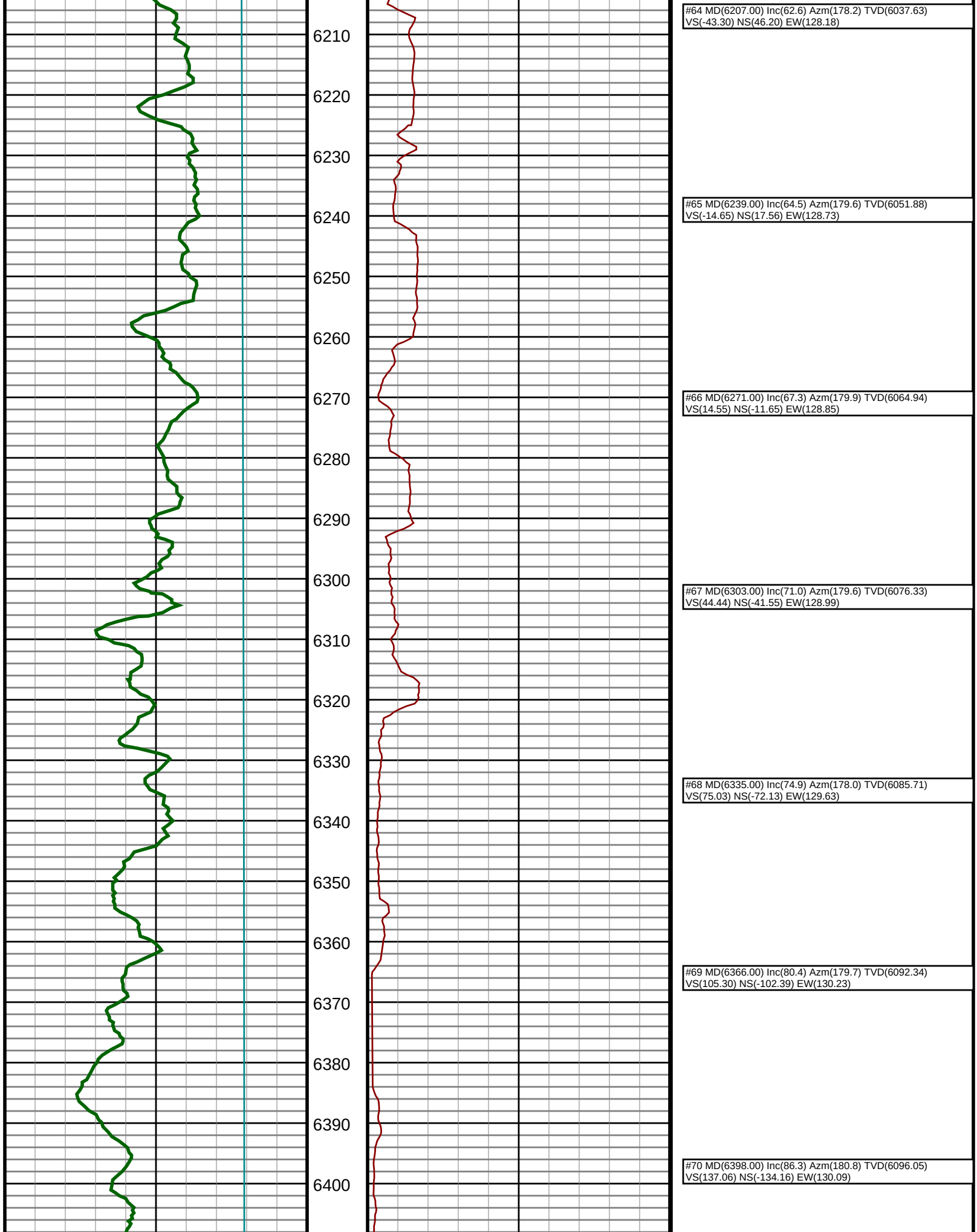
VS(-70.63) NS(73.53) EW(127.89)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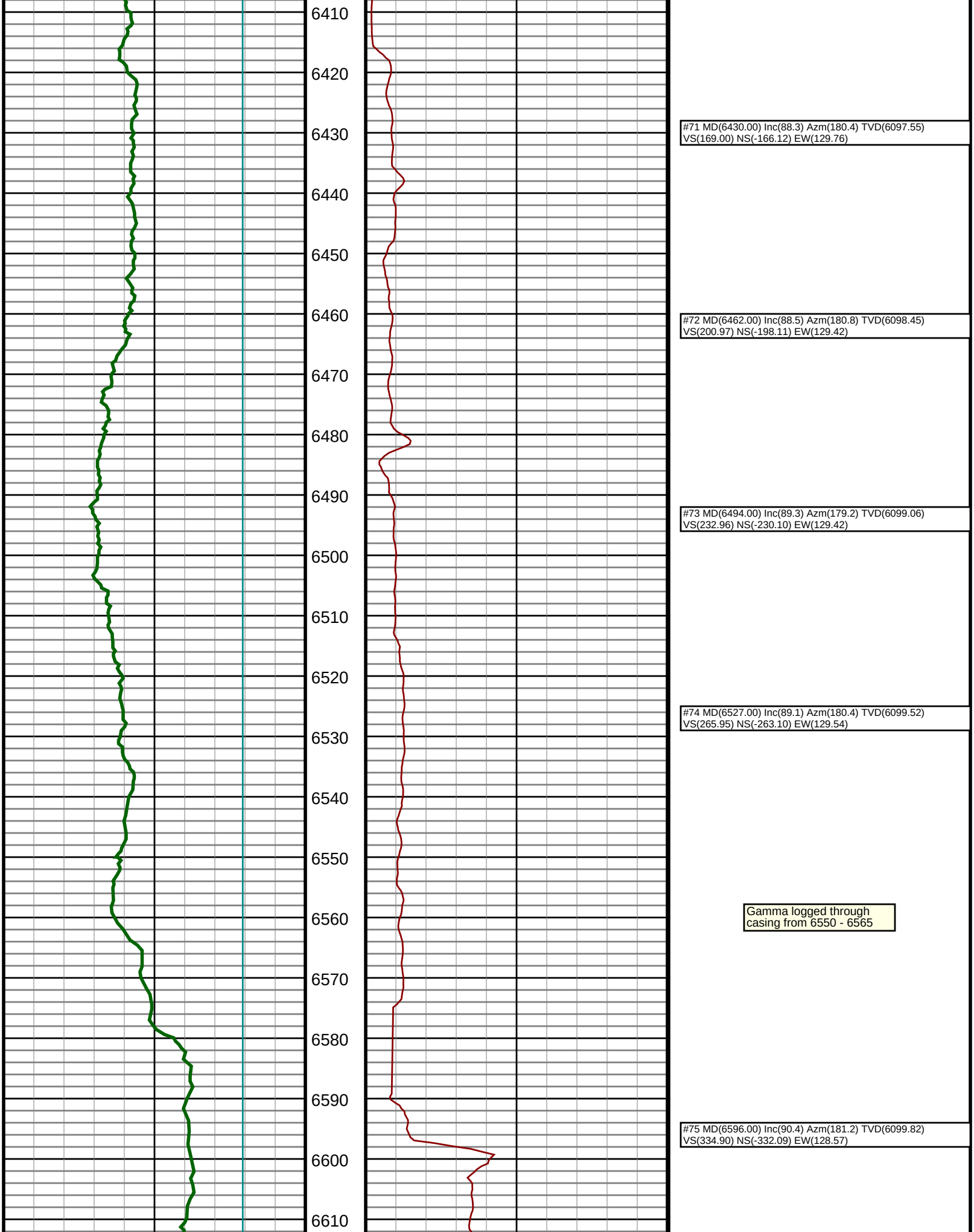
VS(44.44) NS(-41.55) EW(128.99)
#68 MD(6335.00) Inc(74.9) Azm(178.0) TVD(6085.71)
VS(75.03) NS(-72.13) EW(129.63)
#69 MD(6366.00) Inc(80.4) Azm(179.7) TVD(6092.34)
VS(105.30) NS(-102.39) EW(130.23)
#70 MD(6398.00) Inc(86.3) Azm(180.8) TVD(6096.05)
VS(137.06) NS(-134.16) EW(130.09)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#72 MD(6462.00) Inc(88.5) Azm(180.8) TVD(6098.45)
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VS(232.96) NS(-230.10) EW(129.42)
#74 MD(6527.00) Inc(89.1) Azm(180.4) TVD(6099.52)
VS(265.95) NS(-263.10) EW(129.54)
Gamma logged through
casing from 6550 - 6565
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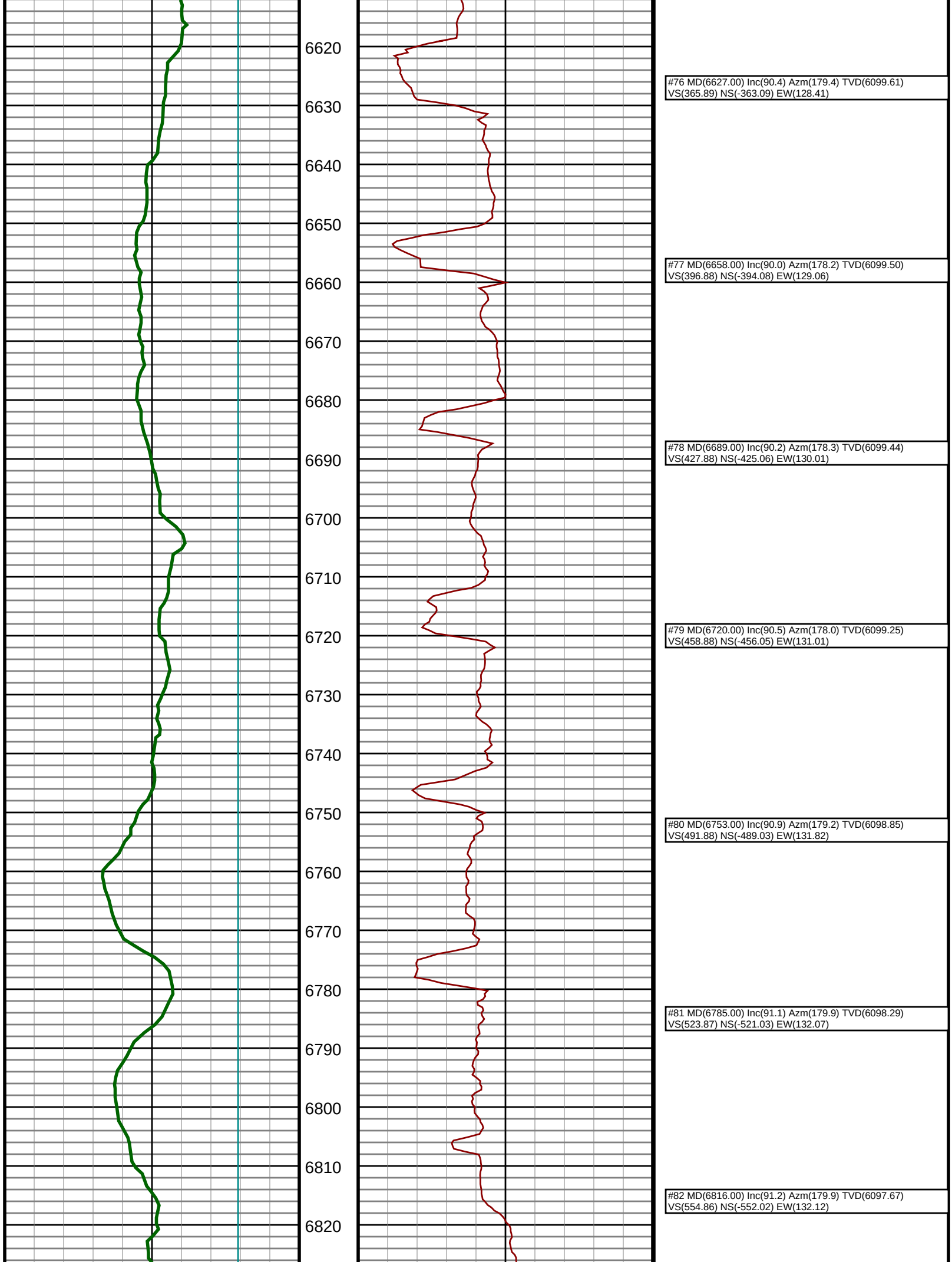
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VS(396.88) NS(-394.08) EW(129.06)
#78 MD(6689.00) Inc(90.2) Azm(178.3) TVD(6099.44)
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#79 MD(6720.00) Inc(90.5) Azm(178.0) TVD(6099.25)
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#81 MD(6785.00) Inc(91.1) Azm(179.9) TVD(6098.29)
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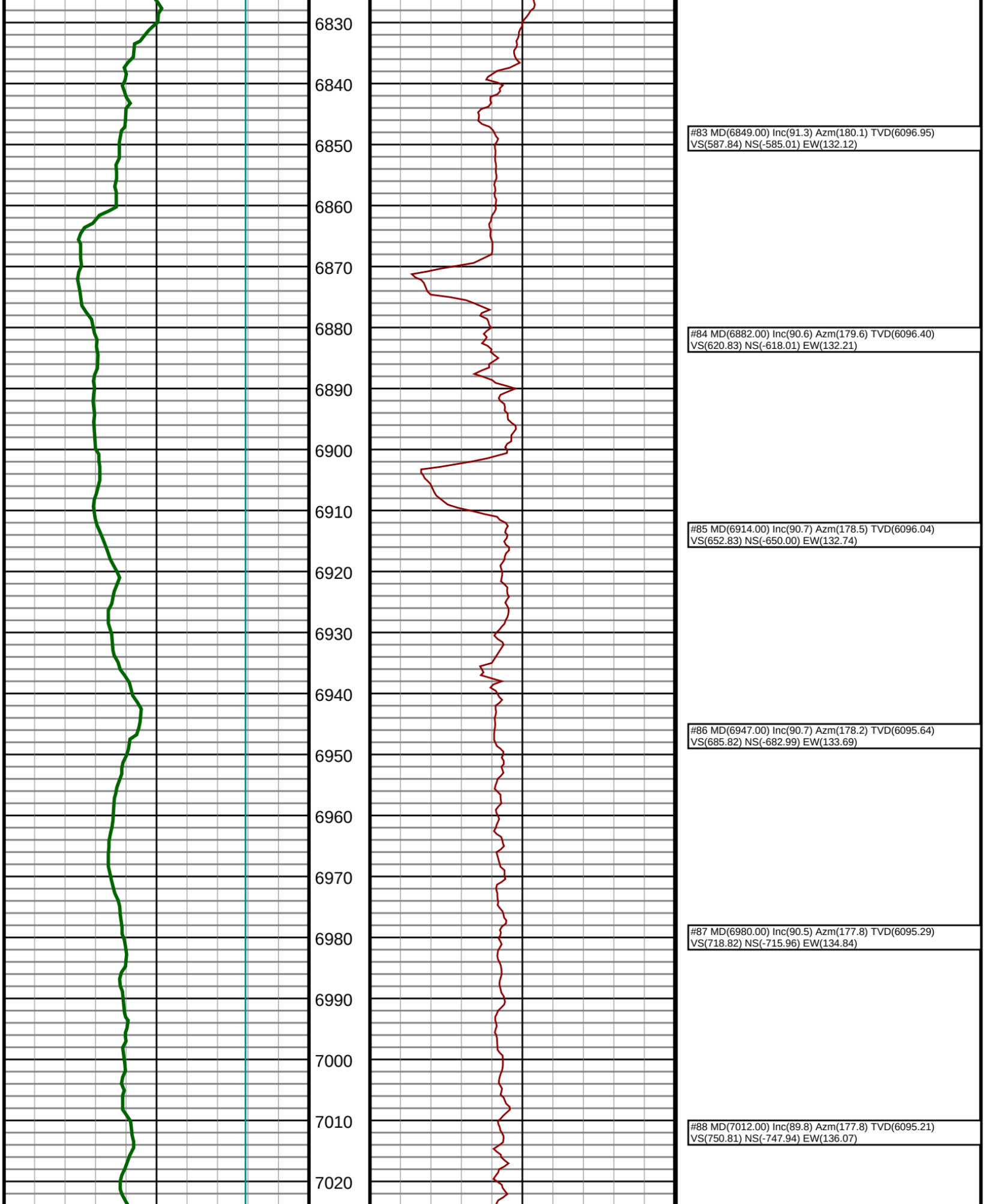
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VS(620.83) NS(-618.01) EW(132.21)
#85 MD(6914.00) Inc(90.7) Azm(178.5) TVD(6096.04)
VS(652.83) NS(-650.00) EW(132.74)
#86 MD(6947.00) Inc(90.7) Azm(178.2) TVD(6095.64)
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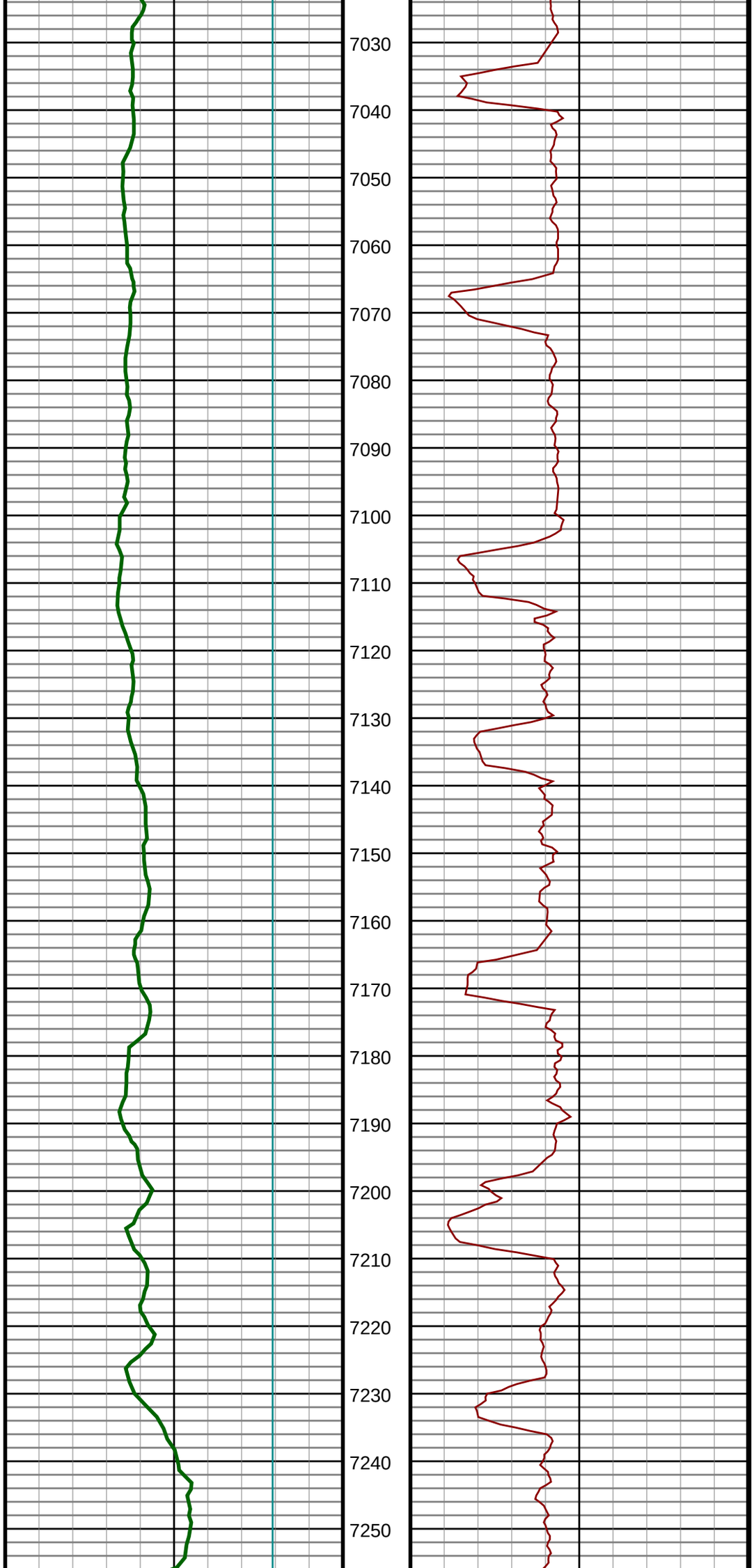

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VS(816.79) NS(-813.86) EW(139.15)

#91 MD(7111.00) Inc(89.4) Azm(178.2) TVD(6096.36)
VS(849.78) NS(-846.85) EW(140.04)

#92 MD(7144.00) Inc(89.8) Azm(178.7) TVD(6096.59)
VS(882.78) NS(-879.83) EW(140.93)

#93 MD(7176.00) Inc(90.0) Azm(179.7) TVD(6096.65)
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#94 MD(7209.00) Inc(91.0) Azm(180.6) TVD(6096.36)
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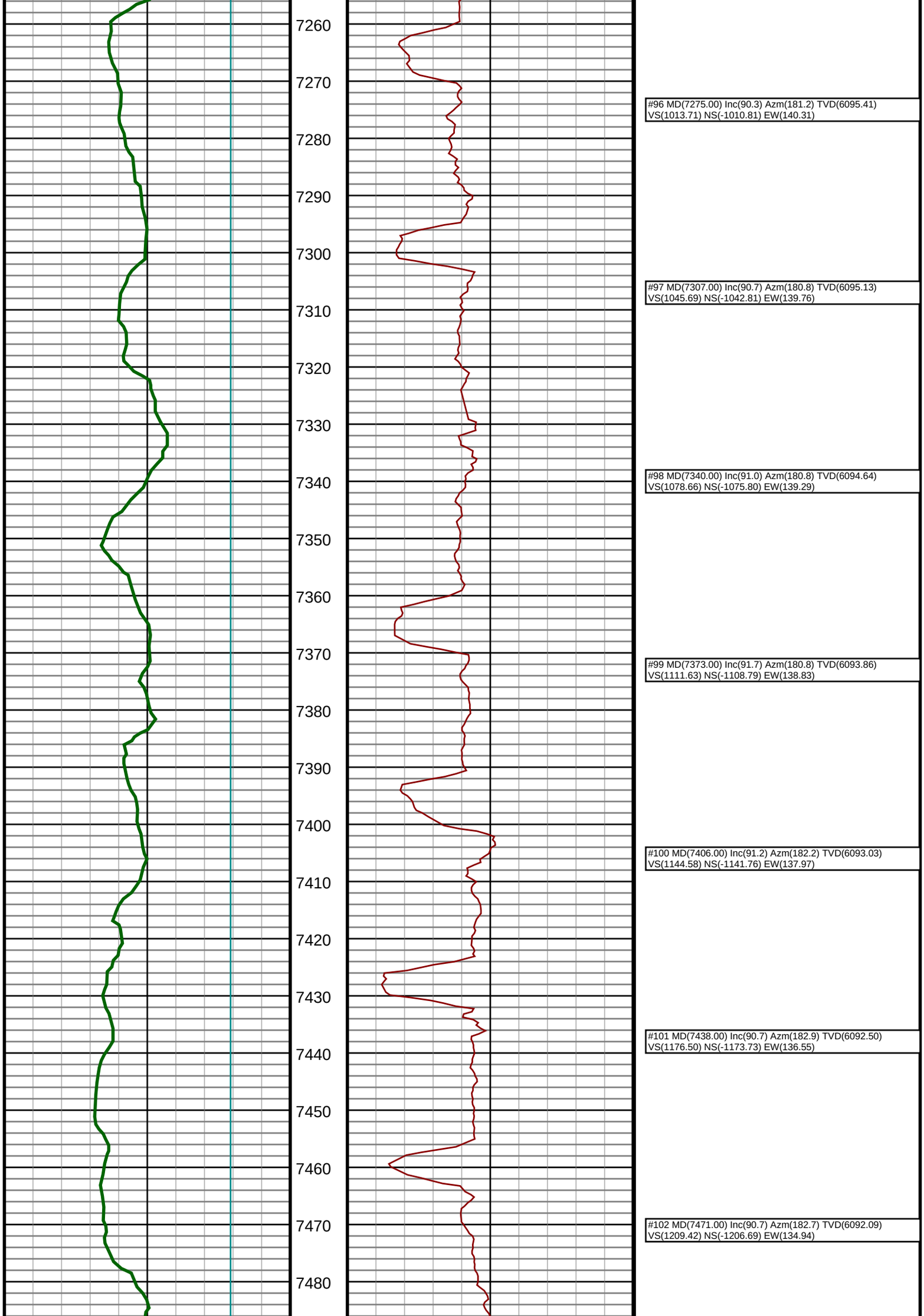
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#97 MD(7307.00) Inc(90.7) Azm(180.8) TVD(6095.13)
VS(1045.69) NS(-1042.81) EW(139.76)
#98 MD(7340.00) Inc(91.0) Azm(180.8) TVD(6094.64)
VS(1078.66) NS(-1075.80) EW(139.29)
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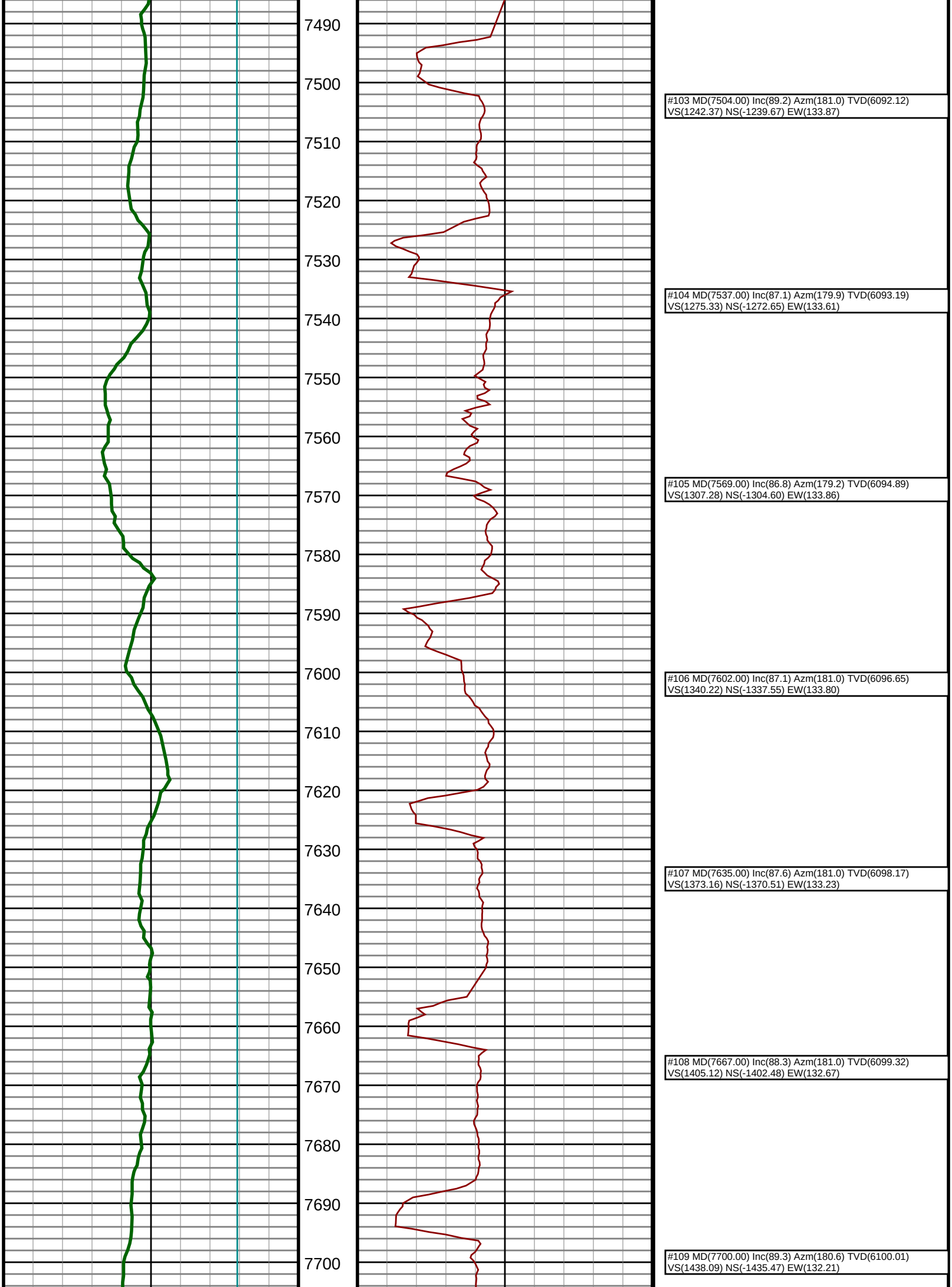
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#104 MD(7537.00) Inc(87.1) Azm(179.9) TVD(6093.19)
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#105 MD(7569.00) Inc(86.8) Azm(179.2) TVD(6094.89)
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#107 MD(7635.00) Inc(87.6) Azm(181.0) TVD(6098.17)
VS(1373.16) NS(-1370.51) EW(133.23)
#108 MD(7667.00) Inc(88.3) Azm(181.0) TVD(6099.32)
VS(1405.12) NS(-1402.48) EW(132.67)
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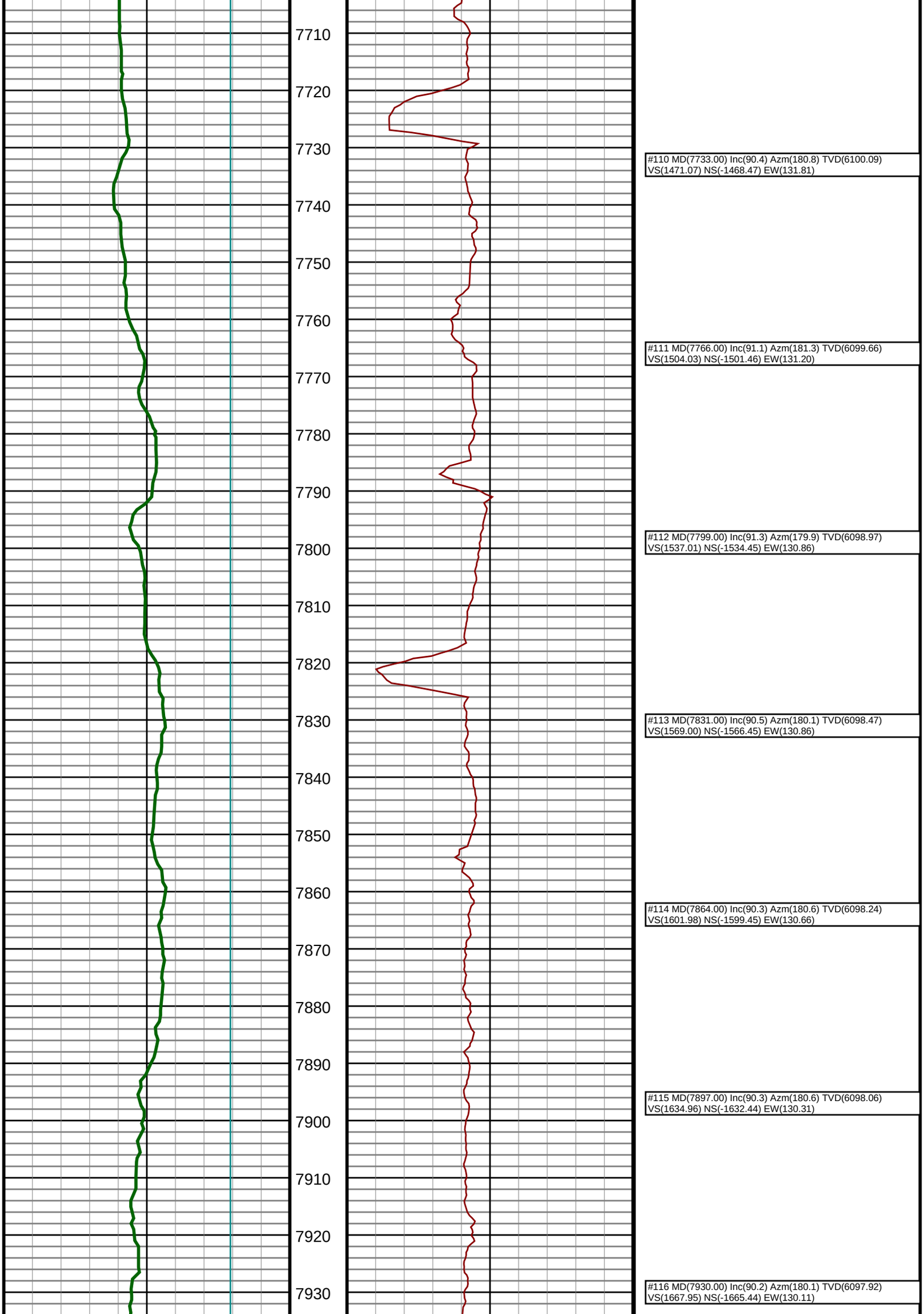
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#114 MD(7864.00) Inc(90.3) Azm(180.6) TVD(6098.24)
VS(1601.98) NS(-1599.45) EW(130.66)
#115 MD(7897.00) Inc(90.3) Azm(180.6) TVD(6098.06)
VS(1634.96) NS(-1632.44) EW(130.31)
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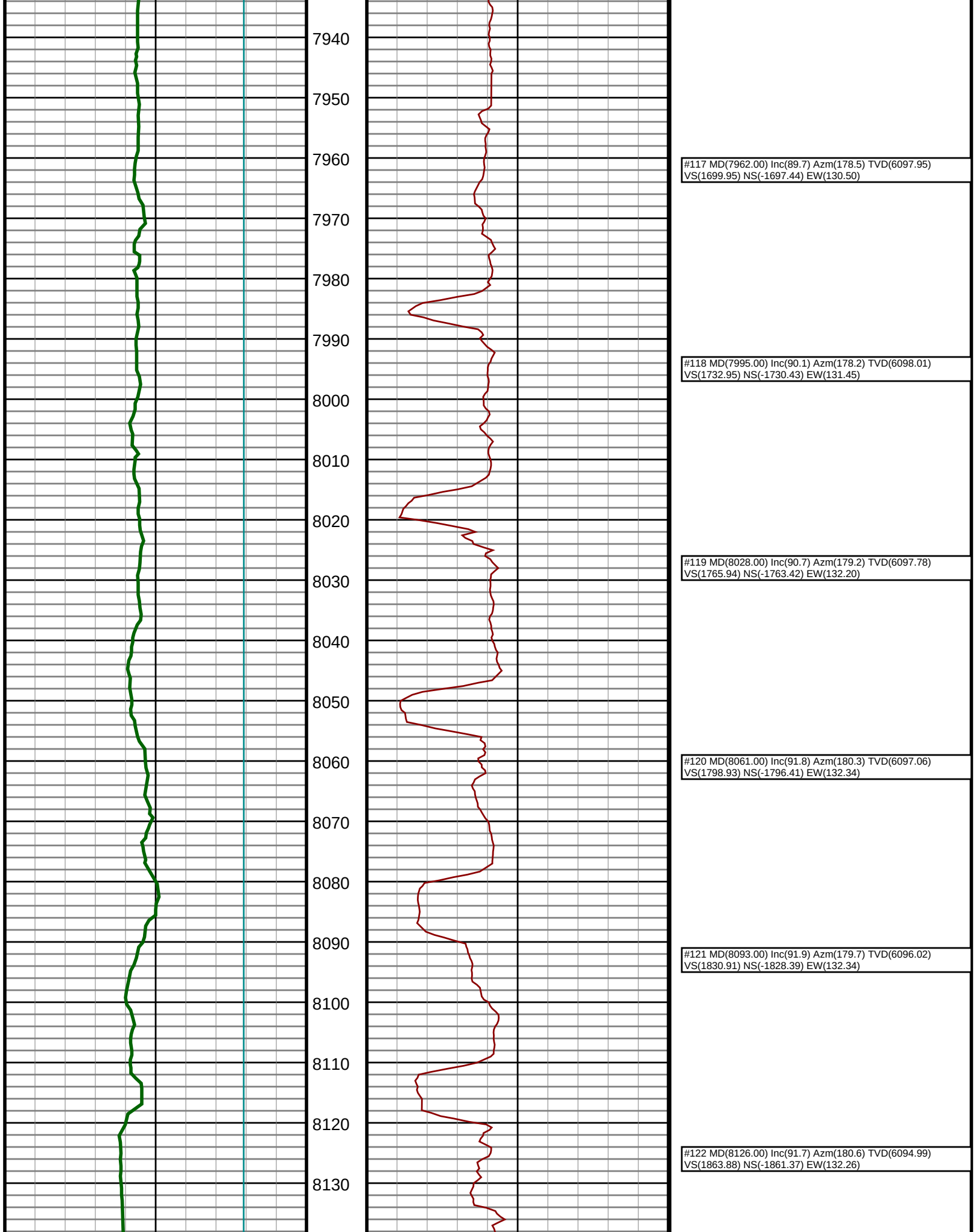
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#119 MD(8028.00) Inc(90.7) Azm(179.2) TVD(6097.78)
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VS(1798.93) NS(-1796.41) EW(132.34)
#121 MD(8093.00) Inc(91.9) Azm(179.7) TVD(6096.02)
VS(1830.91) NS(-1828.39) EW(132.34)
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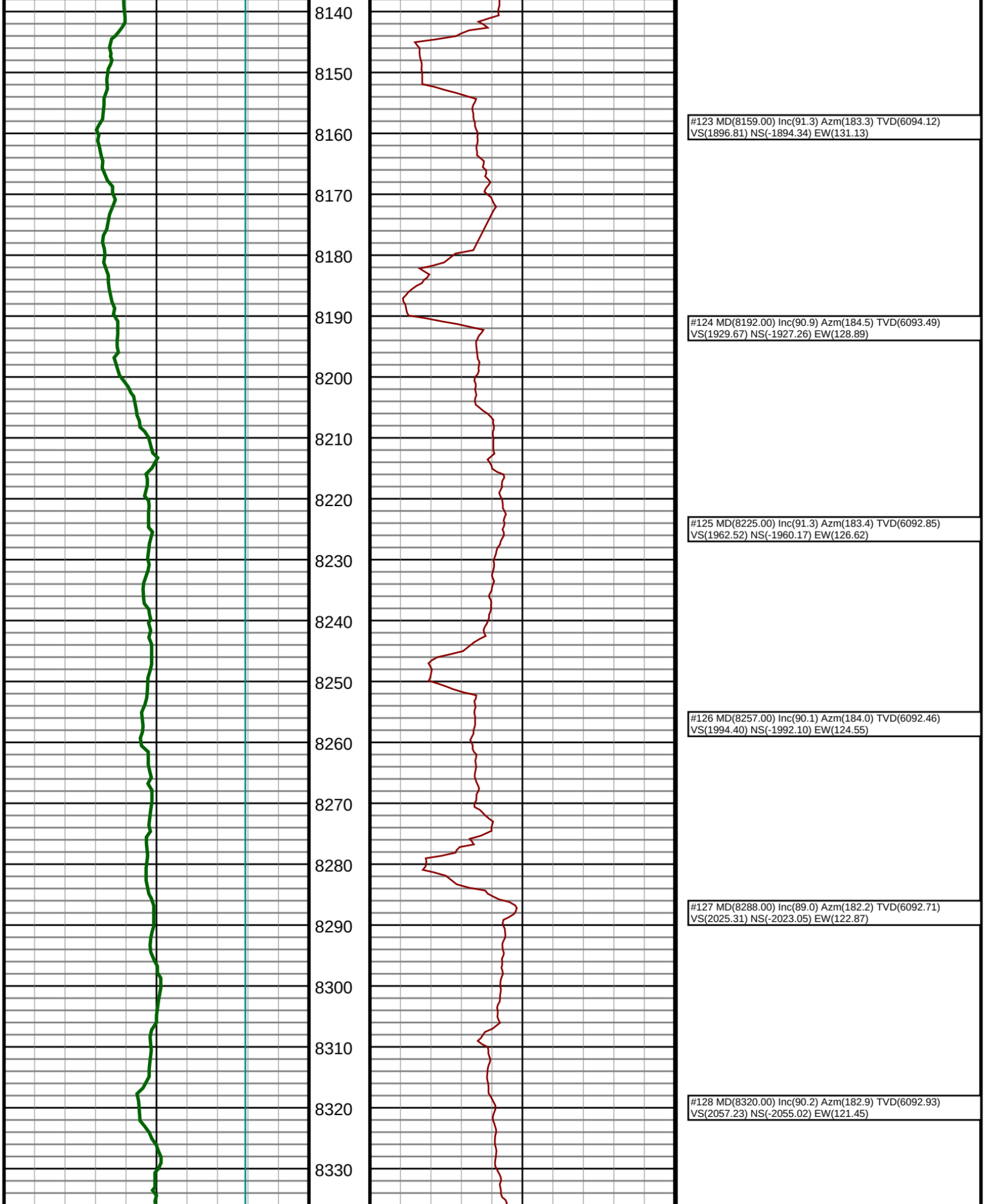
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#123 MD(8159.00) Inc(91.3) Azm(183.3) TVD(6094.12)
VS(1896.81) NS(-1894.34) EW(131.13)
#124 MD(8192.00) Inc(90.9) Azm(184.5) TVD(6093.49)
VS(1929.67) NS(-1927.26) EW(128.89)
#125 MD(8225.00) Inc(91.3) Azm(183.4) TVD(6092.85)
VS(1962.52) NS(-1960.17) EW(126.62)
#126 MD(8257.00) Inc(90.1) Azm(184.0) TVD(6092.46)
VS(1994.40) NS(-1992.10) EW(124.55)
#127 MD(8288.00) Inc(89.0) Azm(182.2) TVD(6092.71)
VS(2025.31) NS(-2023.05) EW(122.87)
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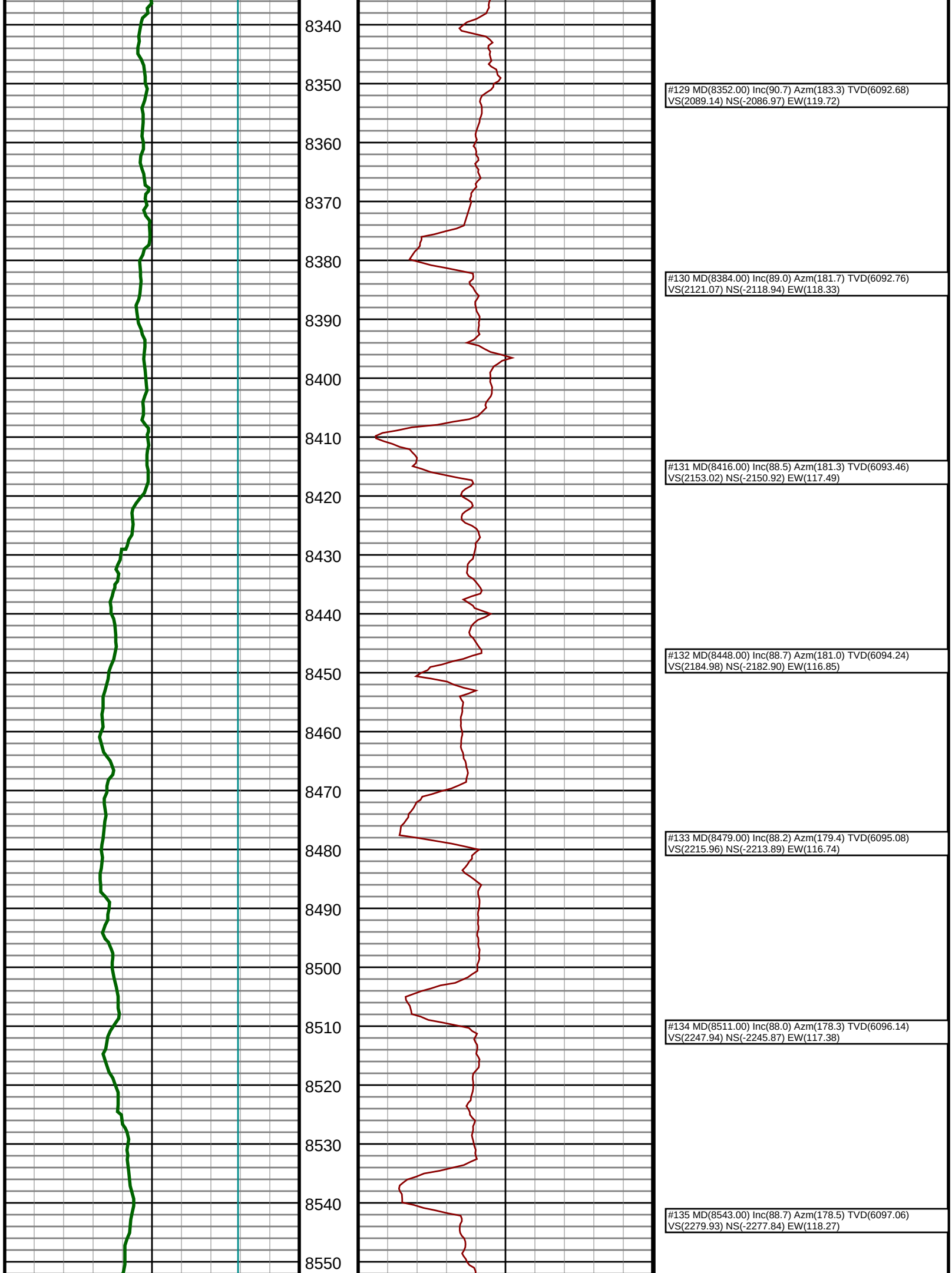
VS(2057.23) NS(-2055.02) EW(121.45)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#129 MD(8352.00) Inc(90.7) Azm(183.3) TVD(6092.68)
VS(2089.14) NS(-2086.97) EW(119.72)
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VS(2121.07) NS(-2118.94) EW(118.33)
#131 MD(8416.00) Inc(88.5) Azm(181.3) TVD(6093.46)
VS(2153.02) NS(-2150.92) EW(117.49)
#132 MD(8448.00) Inc(88.7) Azm(181.0) TVD(6094.24)
VS(2184.98) NS(-2182.90) EW(116.85)
#133 MD(8479.00) Inc(88.2) Azm(179.4) TVD(6095.08)
VS(2215.96) NS(-2213.89) EW(116.74)
#134 MD(8511.00) Inc(88.0) Azm(178.3) TVD(6096.14)
VS(2247.94) NS(-2245.87) EW(117.38)
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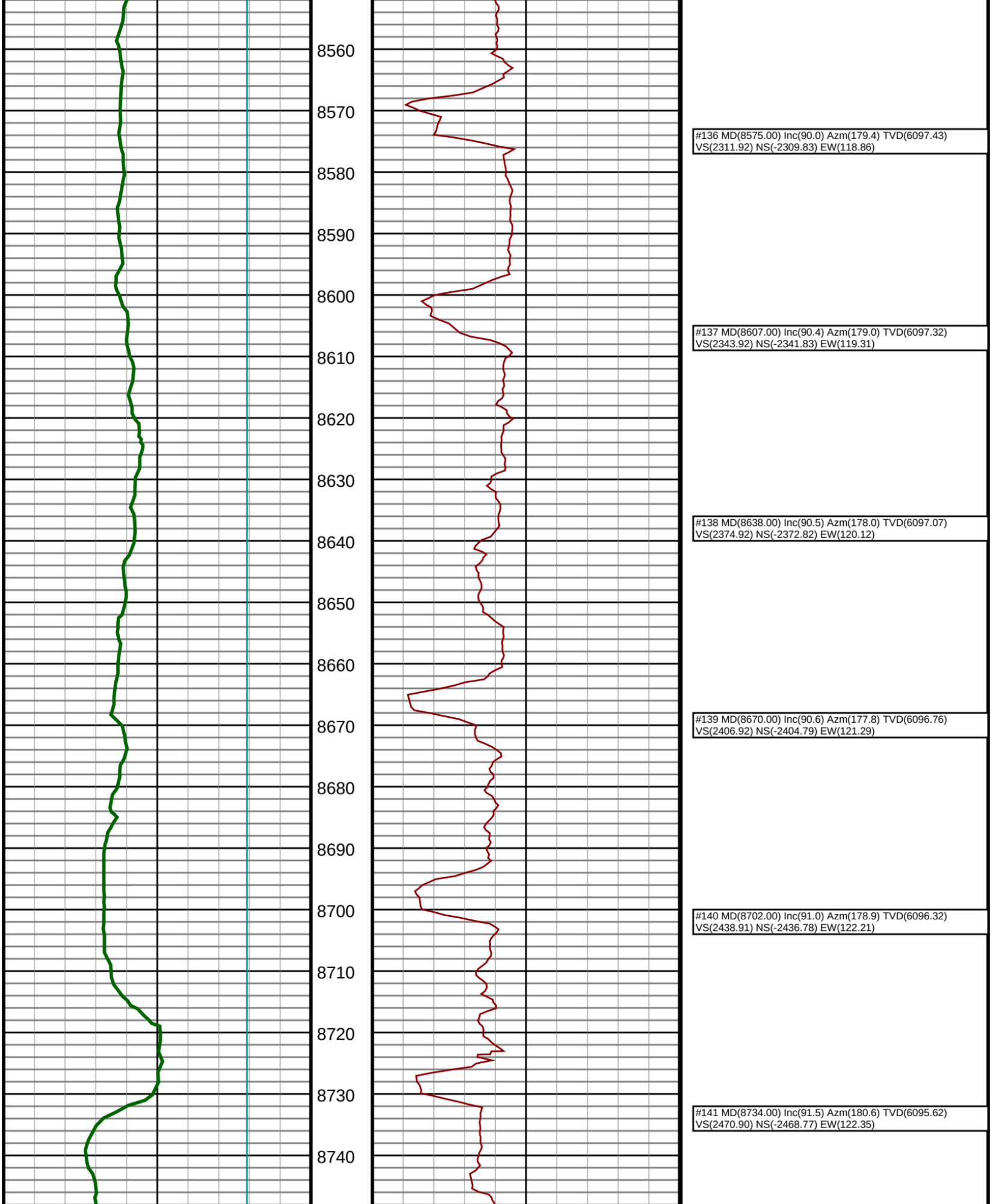
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VS(2343.92) NS(-2341.83) EW(119.31)
#138 MD(8638.00) Inc(90.5) Azm(178.0) TVD(6097.07)
VS(2374.92) NS(-2372.82) EW(120.12)
#139 MD(8670.00) Inc(90.6) Azm(177.8) TVD(6096.76)
VS(2406.92) NS(-2404.79) EW(121.29)
#140 MD(8702.00) Inc(91.0) Azm(178.9) TVD(6096.32)
VS(2438.91) NS(-2436.78) EW(122.21)
#141 MD(8734.00) Inc(91.5) Azm(180.6) TVD(6095.62)
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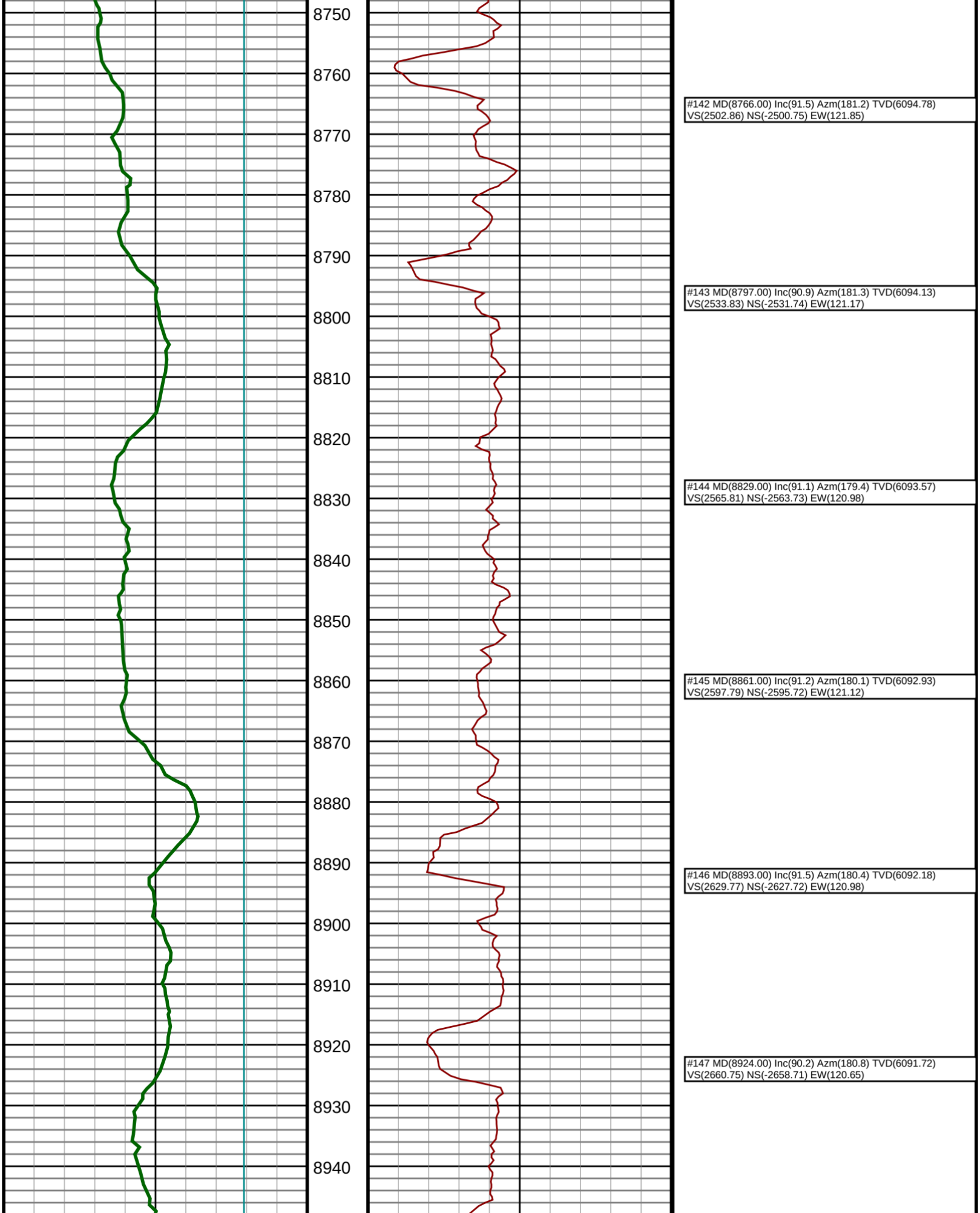
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VS(2533.83) NS(-2531.74) EW(121.17)
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VS(2565.81) NS(-2563.73) EW(120.98)
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VS(2629.77) NS(-2627.72) EW(120.98)
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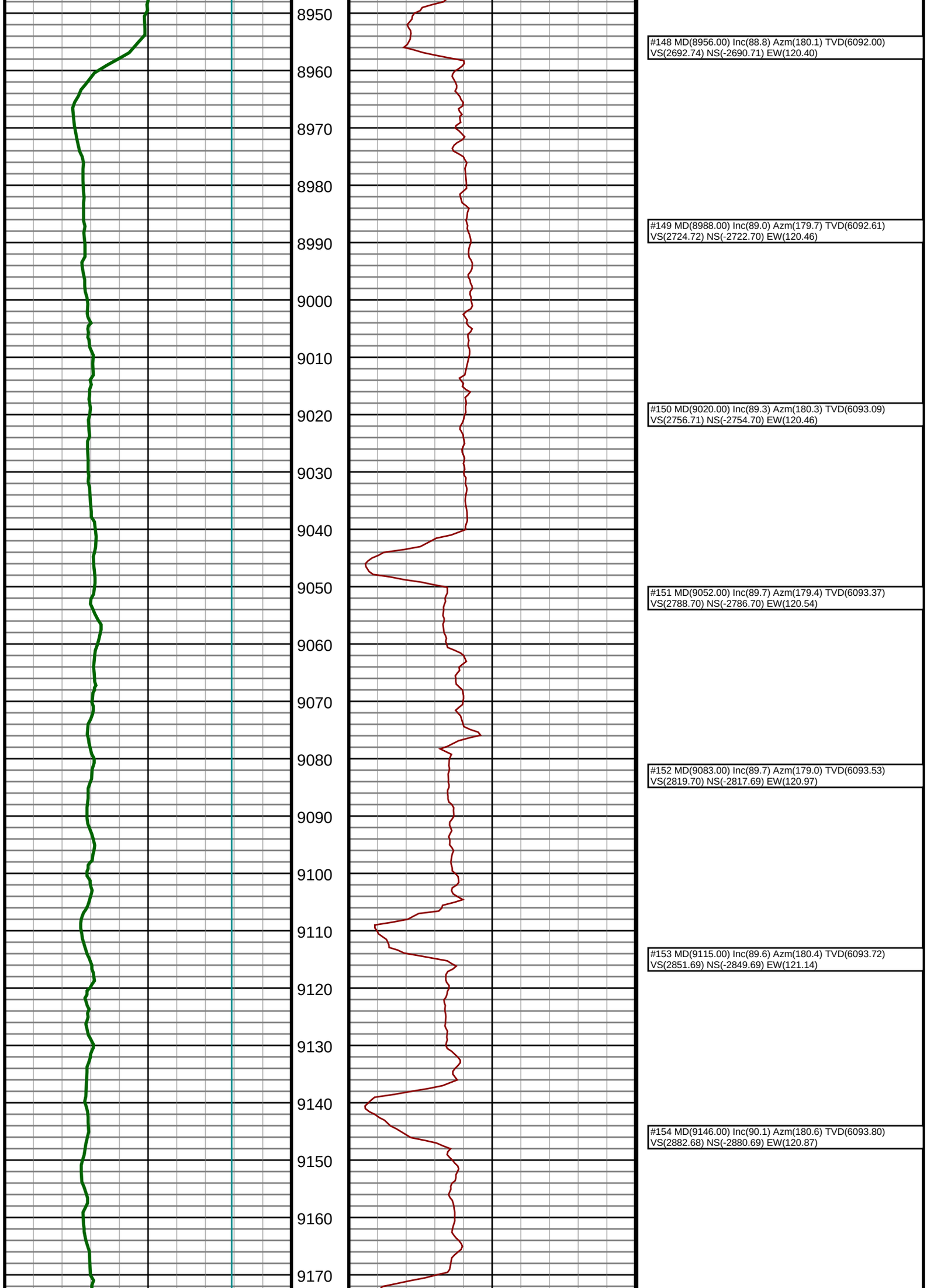
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VS(2756.71) NS(-2754.70) EW(120.46)
#151 MD(9052.00) Inc(89.7) Azm(179.4) TVD(6093.37)
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VS(2819.70) NS(-2817.69) EW(120.97)
#153 MD(9115.00) Inc(89.6) Azm(180.4) TVD(6093.72)
VS(2851.69) NS(-2849.69) EW(121.14)
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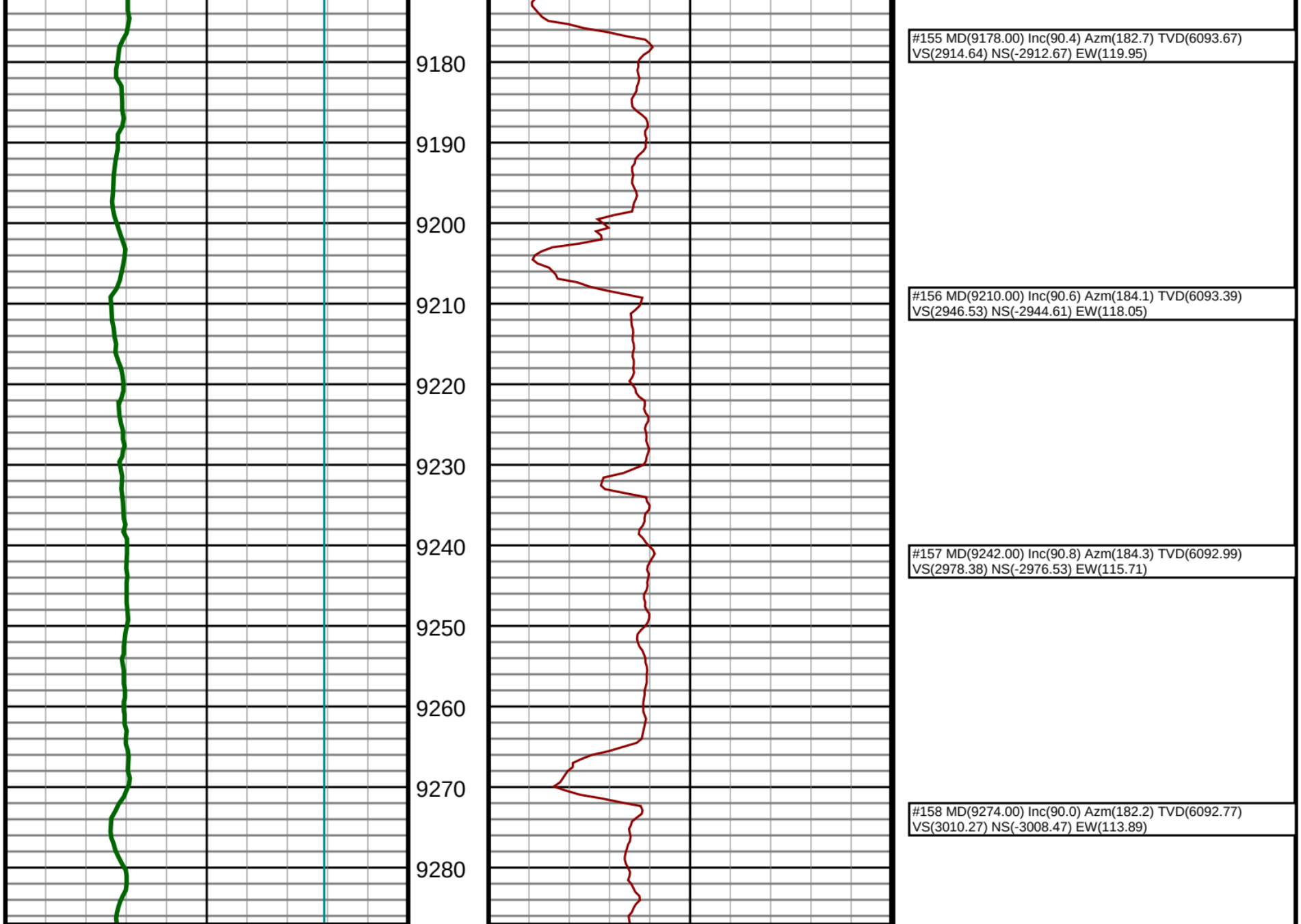
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VS(2946.53) NS(-2944.61) EW(118.05)
#157 MD(9242.00) Inc(90.8) Azm(184.3) TVD(6092.99)
VS(2978.38) NS(-2976.53) EW(115.71)
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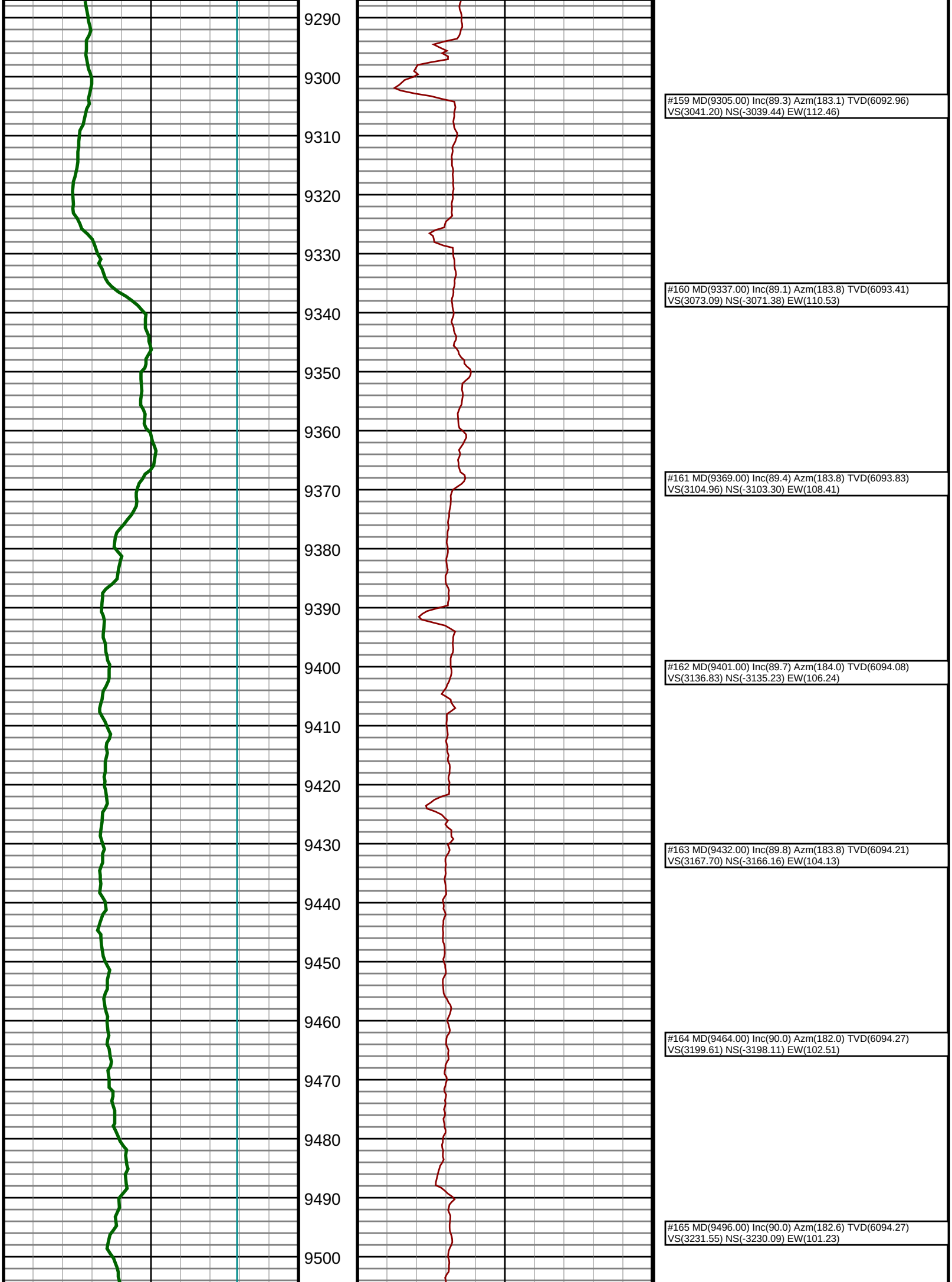
VS(3010.27) NS(-3008.47) EW(113.89)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VS(3041.20) NS(-3039.44) EW(112.46)
#160 MD(9337.00) Inc(89.1) Azm(183.8) TVD(6093.41)
VS(3073.09) NS(-3071.38) EW(110.53)
#161 MD(9369.00) Inc(89.4) Azm(183.8) TVD(6093.83)
VS(3104.96) NS(-3103.30) EW(108.41)
#162 MD(9401.00) Inc(89.7) Azm(184.0) TVD(6094.08)
VS(3136.83) NS(-3135.23) EW(106.24)
#163 MD(9432.00) Inc(89.8) Azm(183.8) TVD(6094.21)
VS(3167.70) NS(-3166.16) EW(104.13)
#164 MD(9464.00) Inc(90.0) Azm(182.0) TVD(6094.27)
VS(3199.61) NS(-3198.11) EW(102.51)
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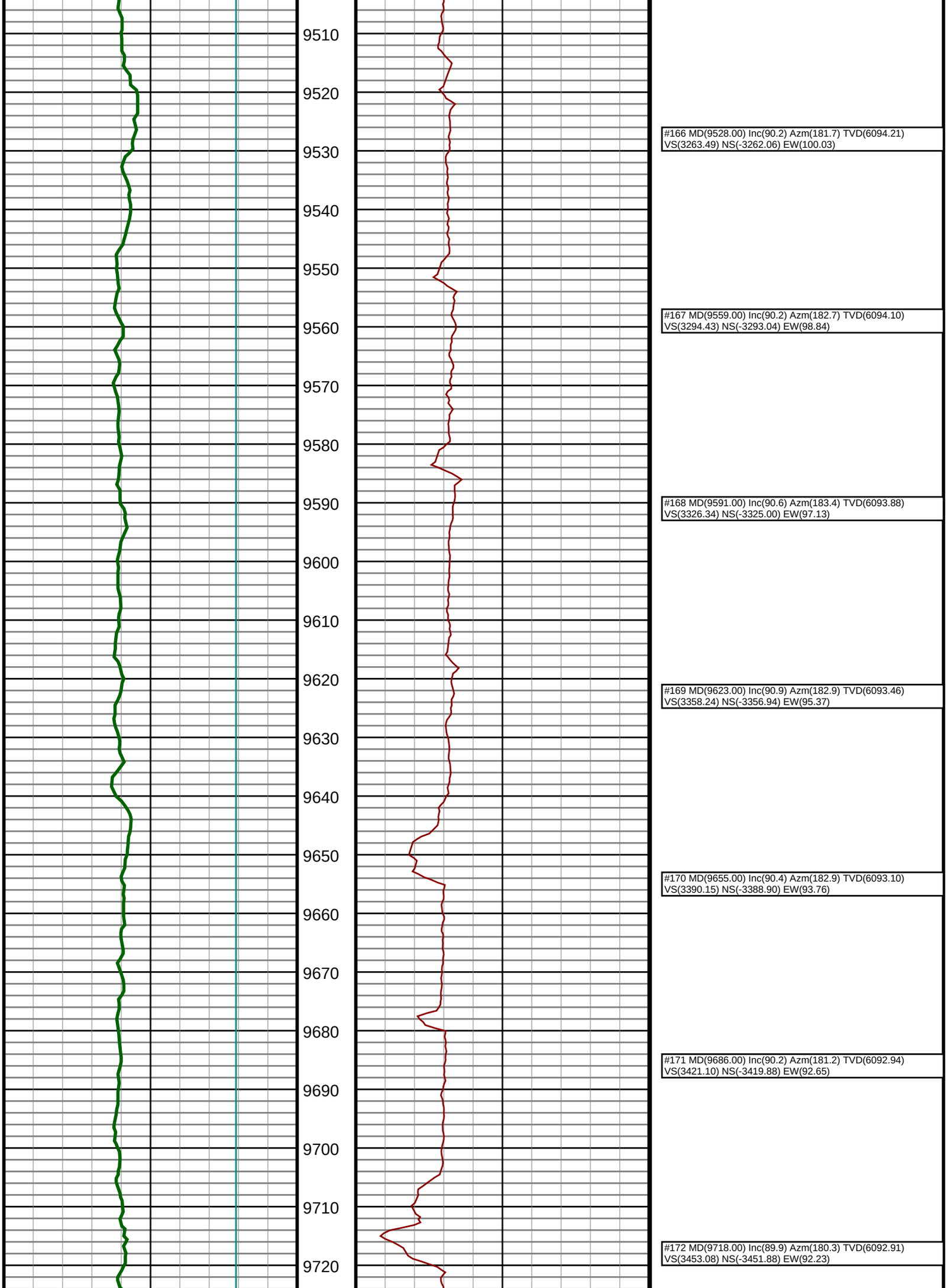
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VS(3263.49) NS(-3262.06) EW(100.03)
#167 MD(9559.00) Inc(90.2) Azm(182.7) TVD(6094.10)
VS(3294.43) NS(-3293.04) EW(98.84)
#168 MD(9591.00) Inc(90.6) Azm(183.4) TVD(6093.88)
VS(3326.34) NS(-3325.00) EW(97.13)
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VS(3358.24) NS(-3356.94) EW(95.37)
#170 MD(9655.00) Inc(90.4) Azm(182.9) TVD(6093.10)
VS(3390.15) NS(-3388.90) EW(93.76)
#171 MD(9686.00) Inc(90.2) Azm(181.2) TVD(6092.94)
VS(3421.10) NS(-3419.88) EW(92.65)
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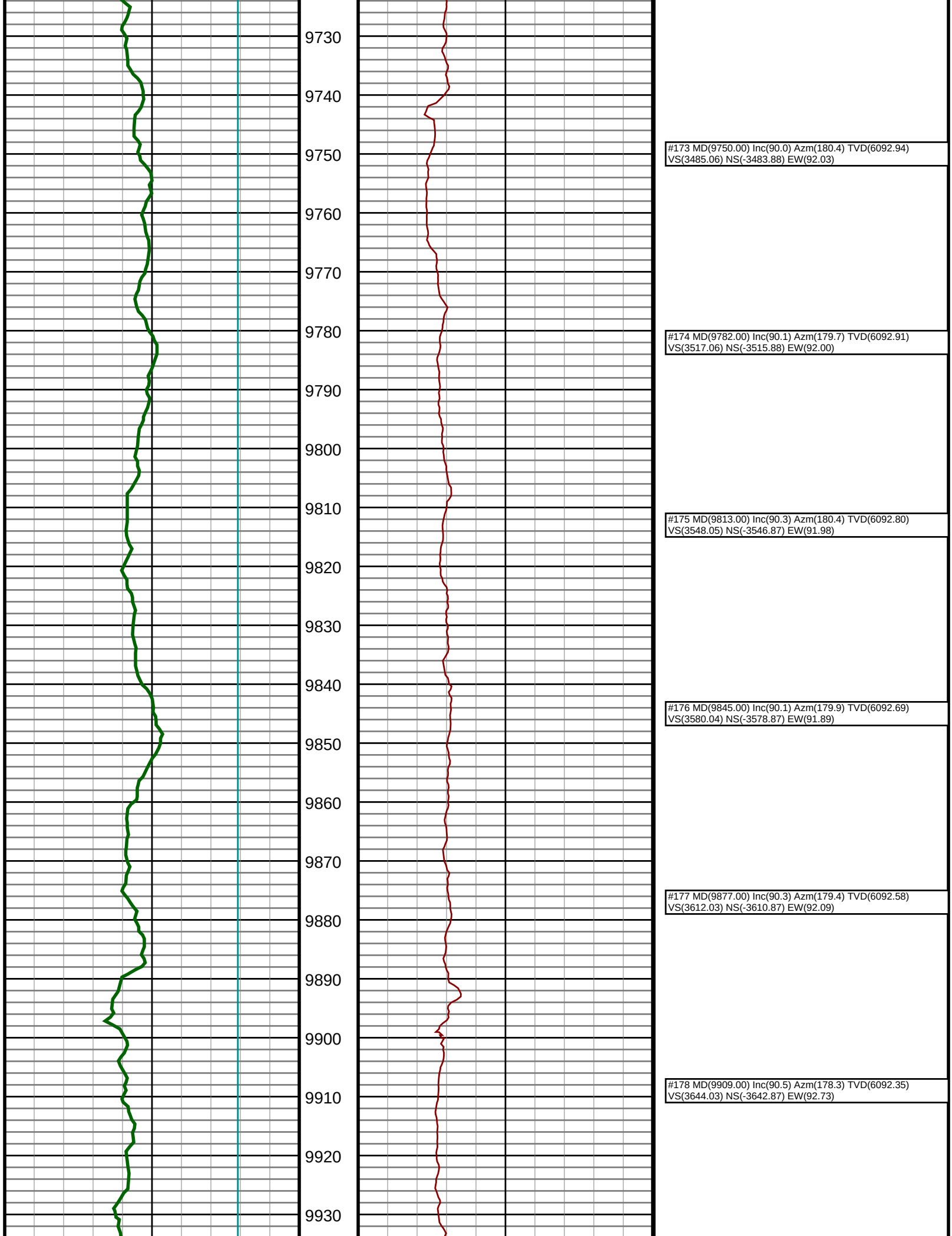
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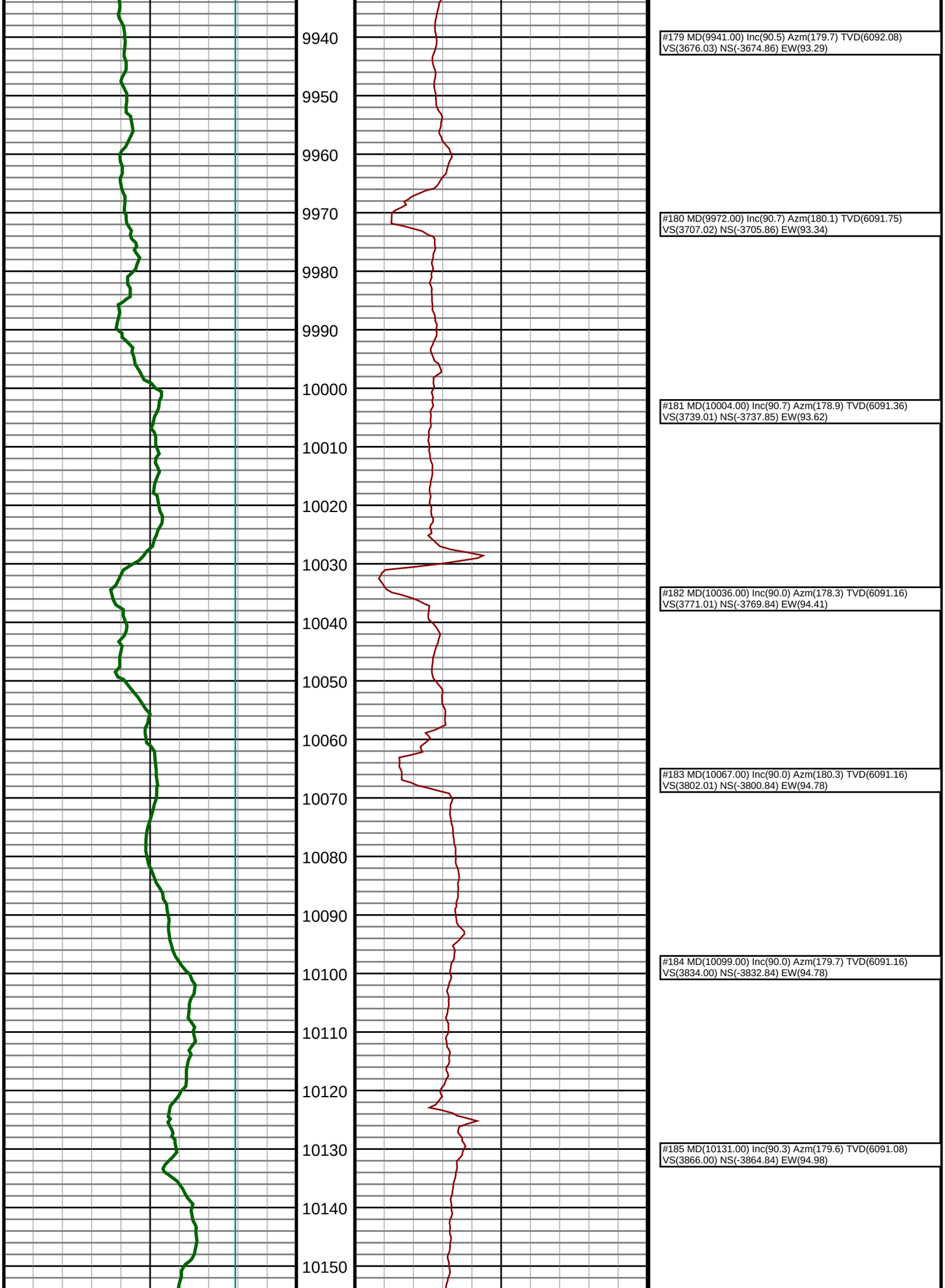
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#181 MD(10004.00) Inc(90.7) Azm(178.9) TVD(6091.36)
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#182 MD(10036.00) Inc(90.0) Azm(178.3) TVD(6091.16)
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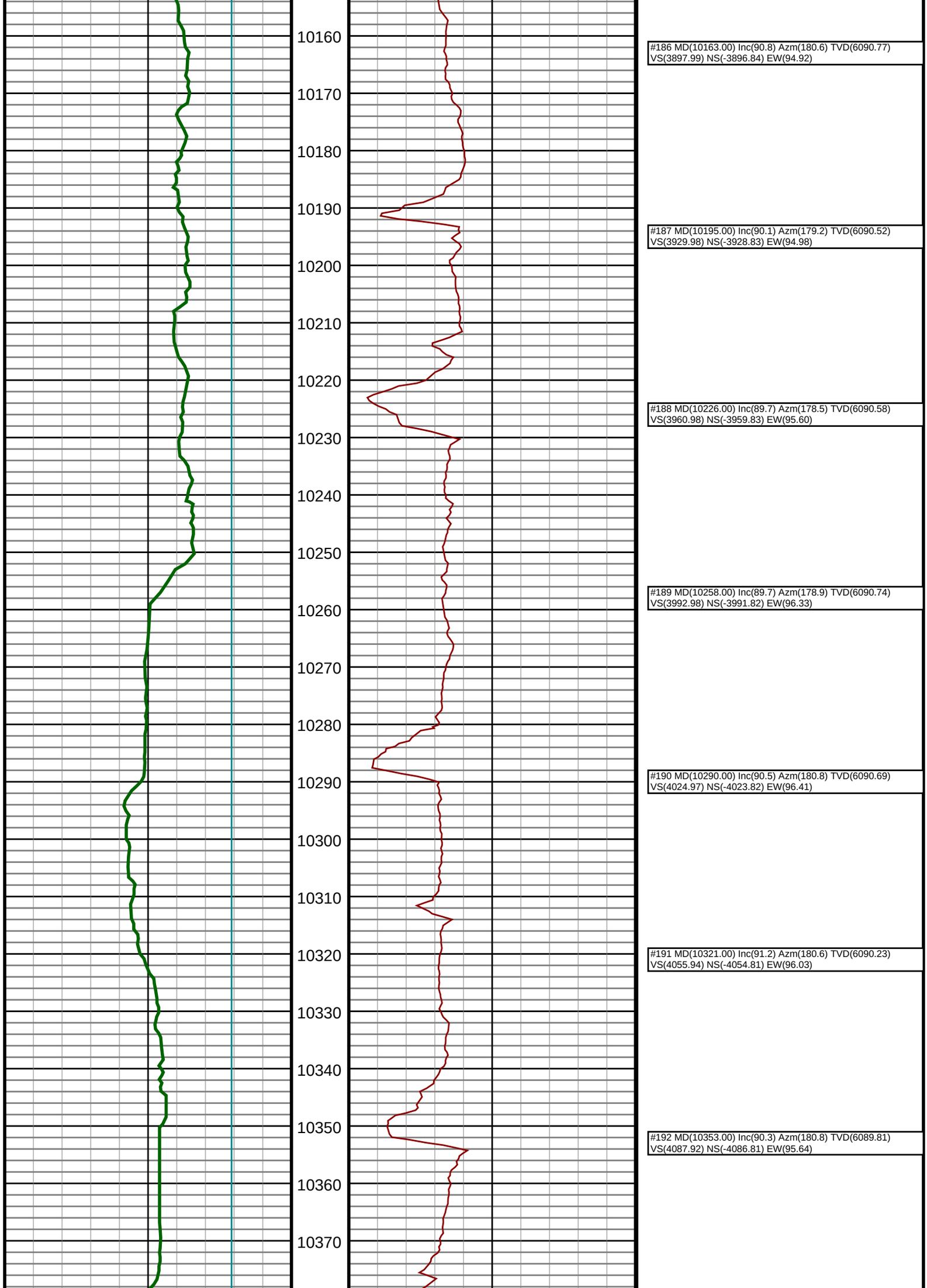
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#191 MD(10321.00) Inc(91.2) Azm(180.6) TVD(6090.23) VS(4055.94) NS(-4054.81) EW(96.03)
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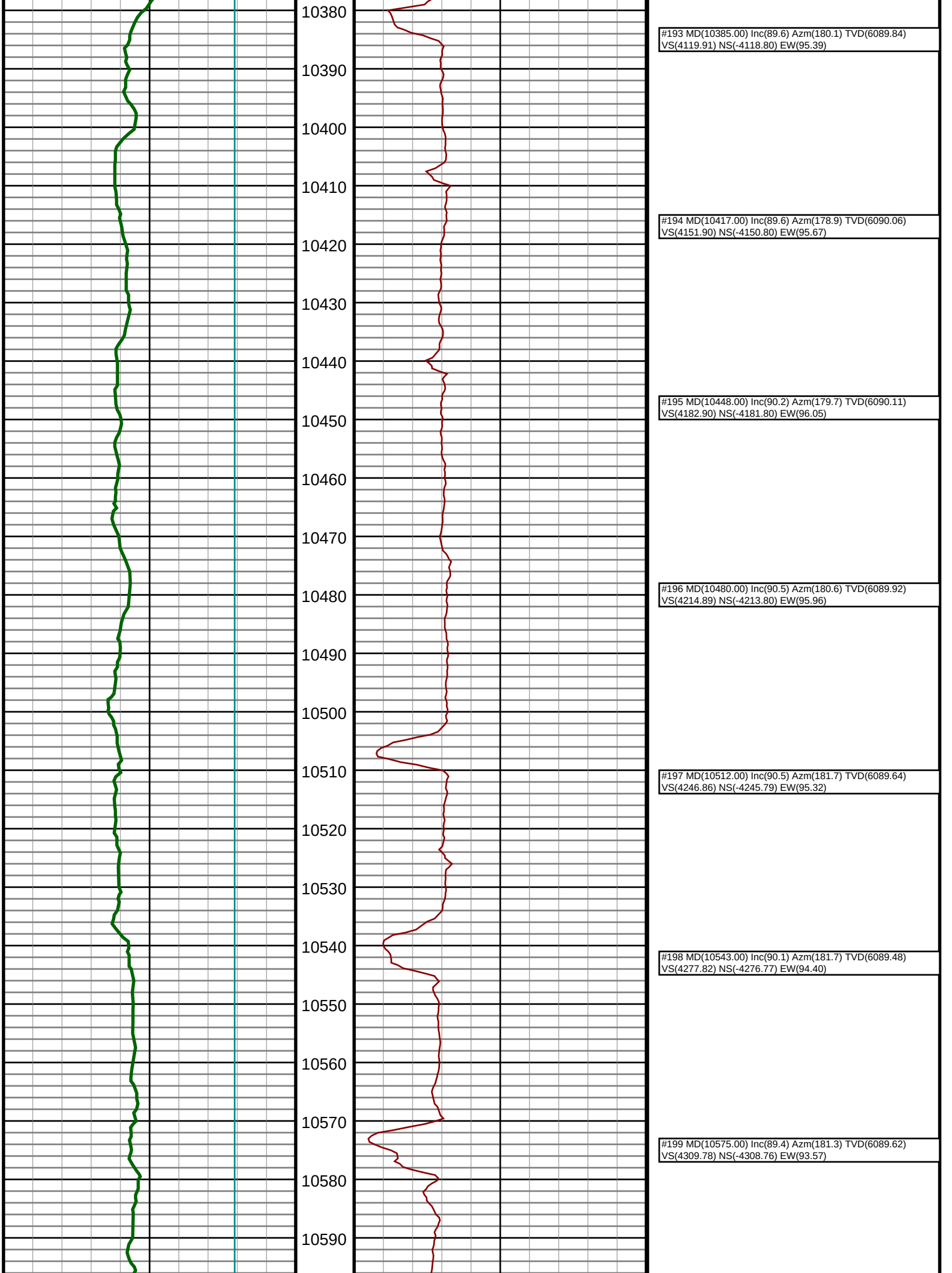
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VS(4277.82) NS(-4276.77) EW(94.40)
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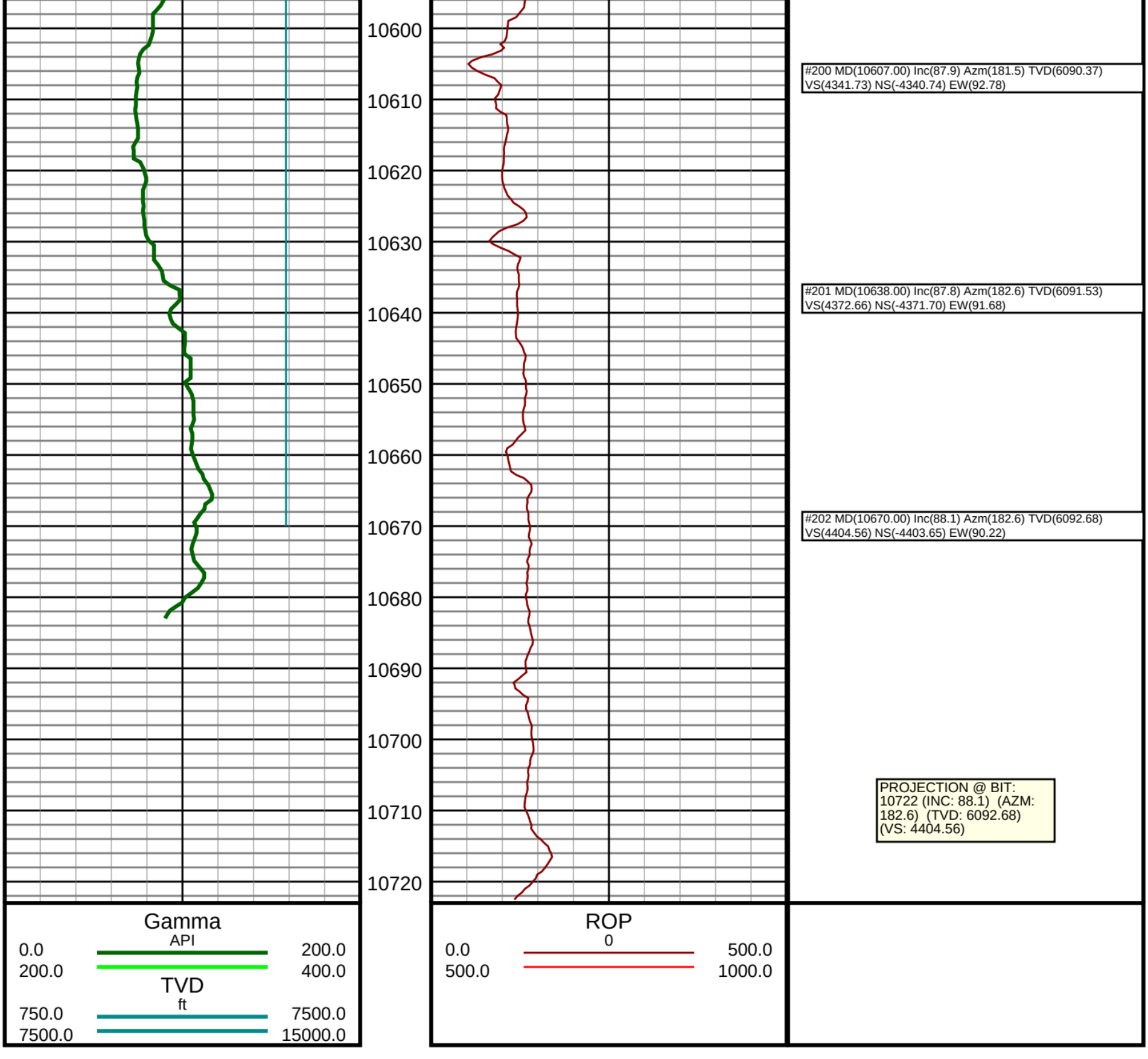
VS(4309.78) NS(-4308.76) EW(93.57)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#201 MD(10638.00) Inc(87.8) Azm(182.6) TVD(6091.53) VS(4372.66) NS(-4371.70) EW(91.68)
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PROJECTION @ BIT: 10722 (INC: 88.1) (AZM: 182.6) (TVD: 6092.68) (VS: 4404.56)
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