State Antelope 31-34-16HNB

MD
5":100'

Company:	Bonanza Creek Energy Company
Well Name:	State Antelope 31-34-16HNB
UWI or LSD:	05-123-37403
Rig Id:	Ensign 128
State:	Colorado
County/Parish:	Weld
Country:	USA
Survey Company:	ENSIGN Directional
Job number:	
Directional 1:	Chris Saykally
Directional 2:	James Allan
MWD 1:	Arin Hatfield
MWD 2:	Luke Henkenius
Company Man:	Tim Joel
Geologist:	

Log measurements: Gamma
Depth measured from:
Maximum temperature:

	Depth	Date
Start:	5987 ft	08/06/2013
End:	ft	8/08/2013

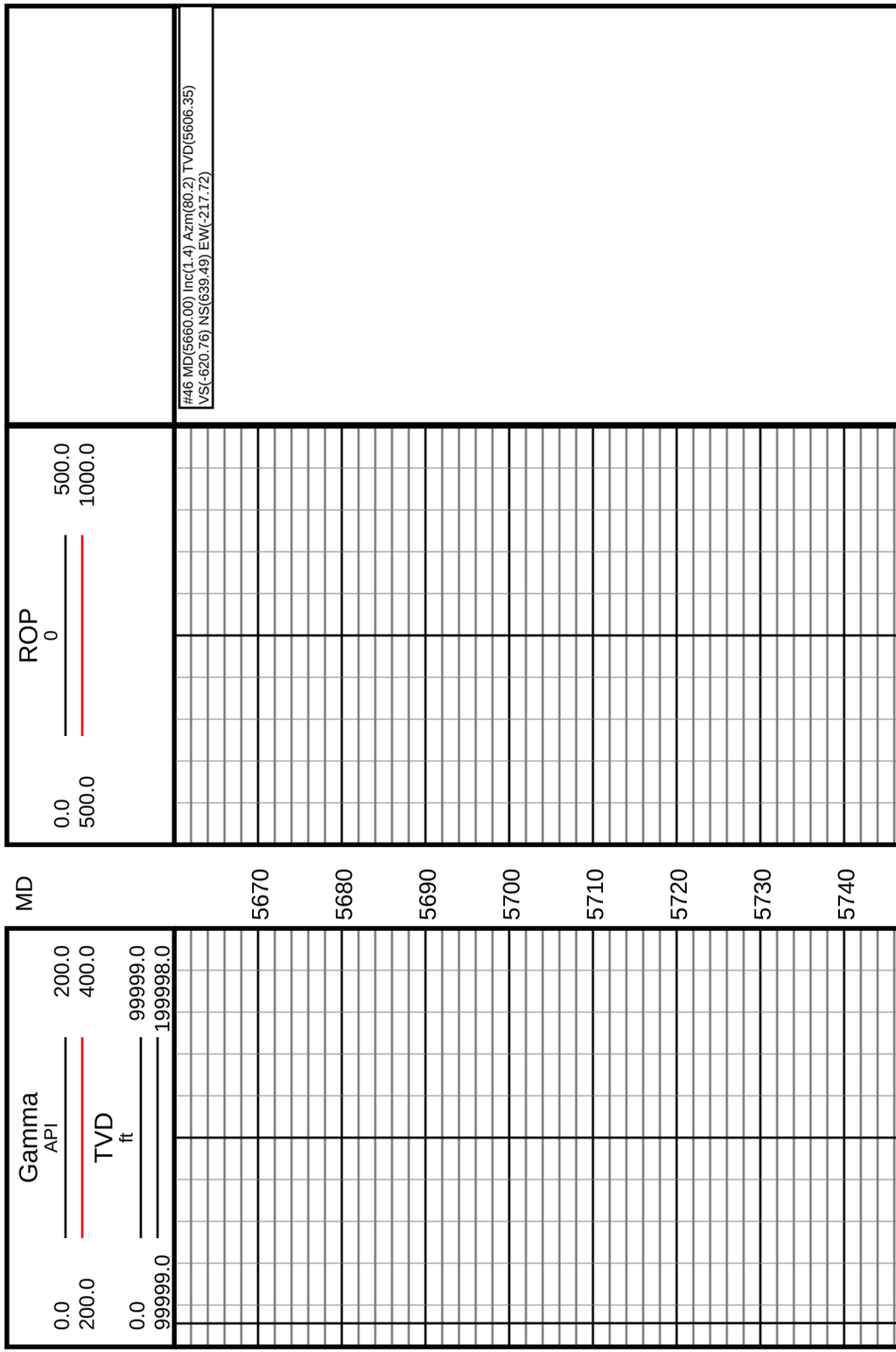
Casing	Depth	Size
Surface:	506	9 5/8
Intermediate:		8 3/4

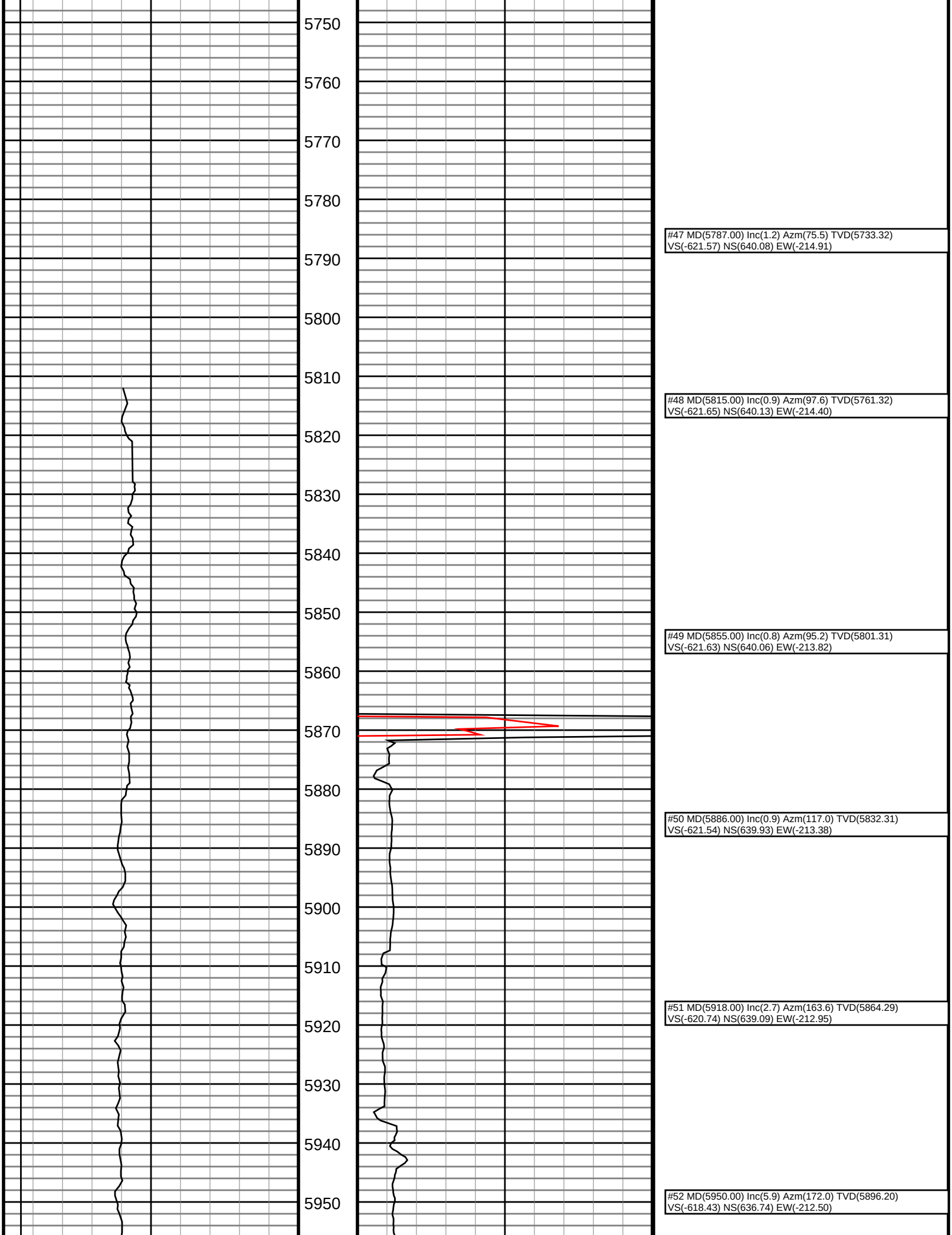
Mud Type:
Density:
Viscosity:
Rm: **Rmf:** **Rmc:**

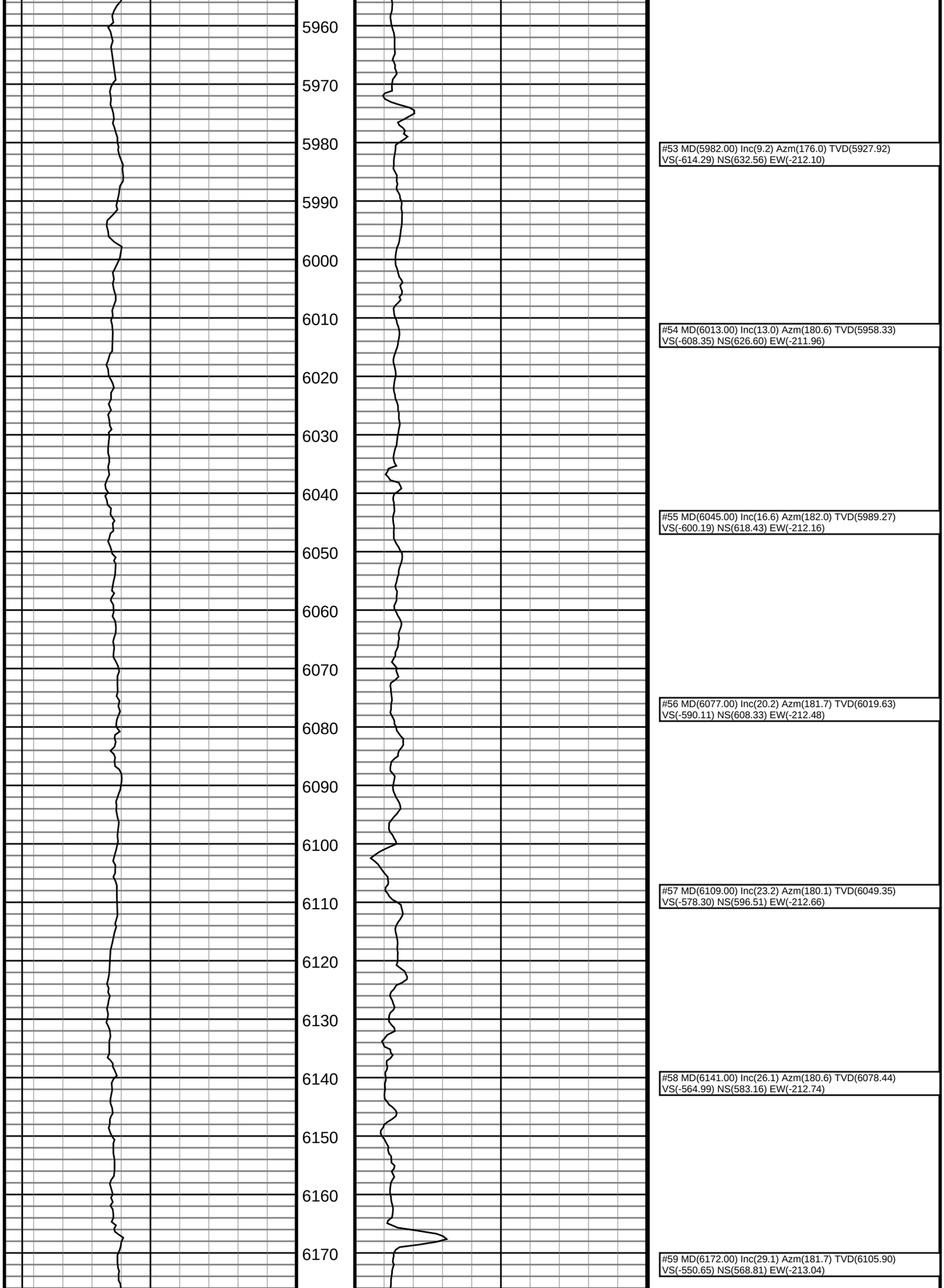
Elevations
KB: 4802
GL: 4787
DF: 4802

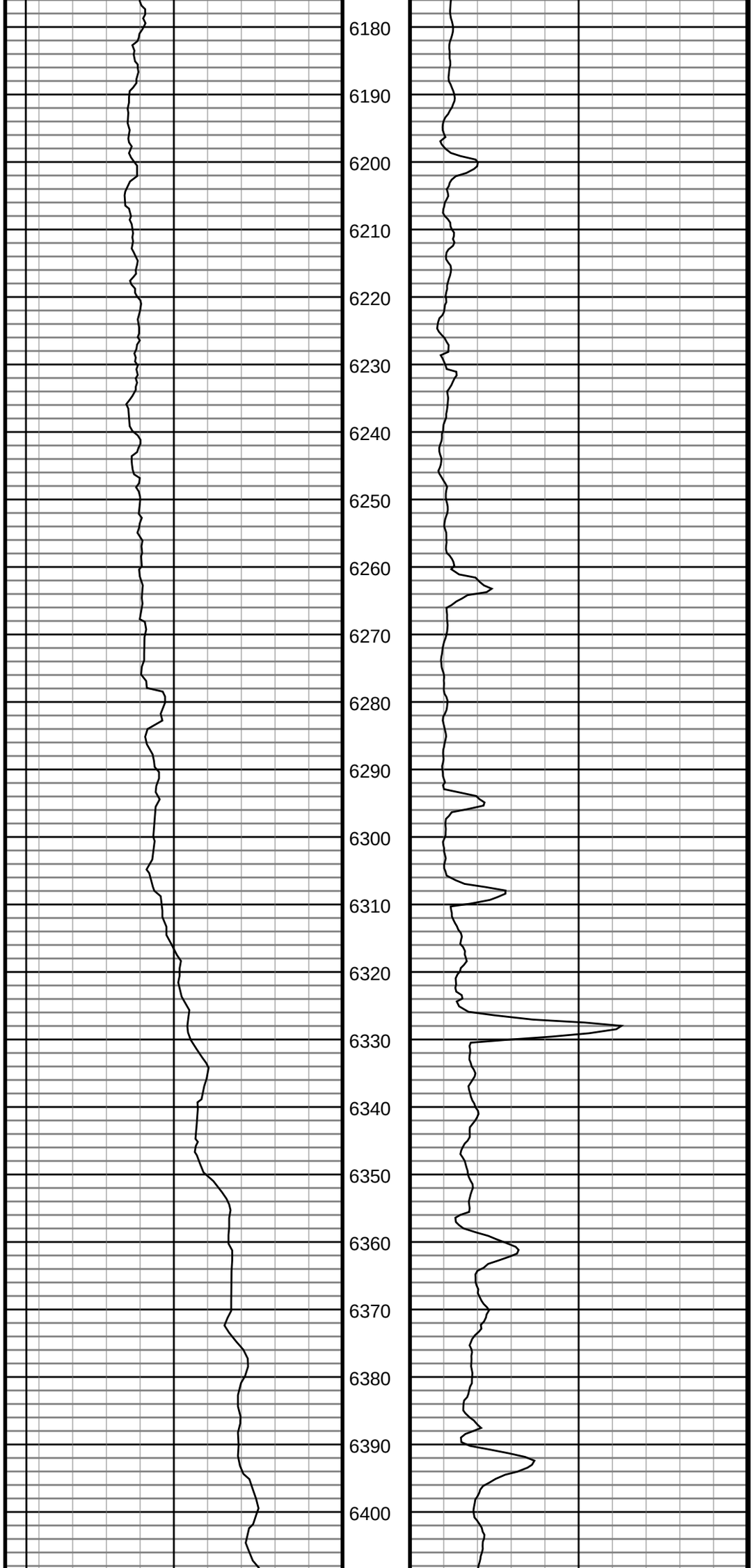
Run	Bit Size	Offsets Gamma	Offsets Survey	Depths Start	Depths End	Dates Start	Dates End
1	8 3/4	55.03	50.03	5987	6873	08/06/2013	8/8/2013
2							
3							
4							
5							
6							
7							
8							
9							
10							

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.




5750
5760
5770
5780
5790
5800
5810
5820
5830
5840
5850
5860
5870
5880
5890
5900
5910
5920
5930
5940
5950
#47 MD(5787.00) Inc(1.2) Azm(75.5) TVD(5733.32)
VS(-621.57) NS(640.08) EW(-214.91)
#48 MD(5815.00) Inc(0.9) Azm(97.6) TVD(5761.32)
VS(-621.65) NS(640.13) EW(-214.40)
#49 MD(5855.00) Inc(0.8) Azm(95.2) TVD(5801.31)
VS(-621.63) NS(640.06) EW(-213.82)
#50 MD(5886.00) Inc(0.9) Azm(117.0) TVD(5832.31)
VS(-621.54) NS(639.93) EW(-213.38)
#51 MD(5918.00) Inc(2.7) Azm(163.6) TVD(5864.29)
VS(-620.74) NS(639.09) EW(-212.95)
#52 MD(5950.00) Inc(5.9) Azm(172.0) TVD(5896.20)
VS(-618.43) NS(636.74) EW(-212.50)


5960
5970
5980
5990
6000
6010
6020
6030
6040
6050
6060
6070
6080
6090
6100
6110
6120
6130
6140
6150
6160
6170
#53 MD(5982.00) Inc(9.2) Azm(176.0) TVD(5927.92)
VS(-614.29) NS(632.56) EW(-212.10)
#54 MD(6013.00) Inc(13.0) Azm(180.6) TVD(5958.33)
VS(-608.35) NS(626.60) EW(-211.96)
#55 MD(6045.00) Inc(16.6) Azm(182.0) TVD(5989.27)
VS(-600.19) NS(618.43) EW(-212.16)
#56 MD(6077.00) Inc(20.2) Azm(181.7) TVD(6019.63)
VS(-590.11) NS(608.33) EW(-212.48)
#57 MD(6109.00) Inc(23.2) Azm(180.1) TVD(6049.35)
VS(-578.30) NS(596.51) EW(-212.66)
#58 MD(6141.00) Inc(26.1) Azm(180.6) TVD(6078.44)
VS(-564.99) NS(583.16) EW(-212.74)
#59 MD(6172.00) Inc(29.1) Azm(181.7) TVD(6105.90)
VS(-550.65) NS(568.81) EW(-213.04)



#60 MD(6204.00) Inc(32.2) Azm(184.1) TVD(6133.43)
VS(-534.35) NS(552.52) EW(-213.88)

#61 MD(6236.00) Inc(35.1) Azm(185.2) TVD(6160.07)
VS(-516.62) NS(534.85) EW(-215.32)

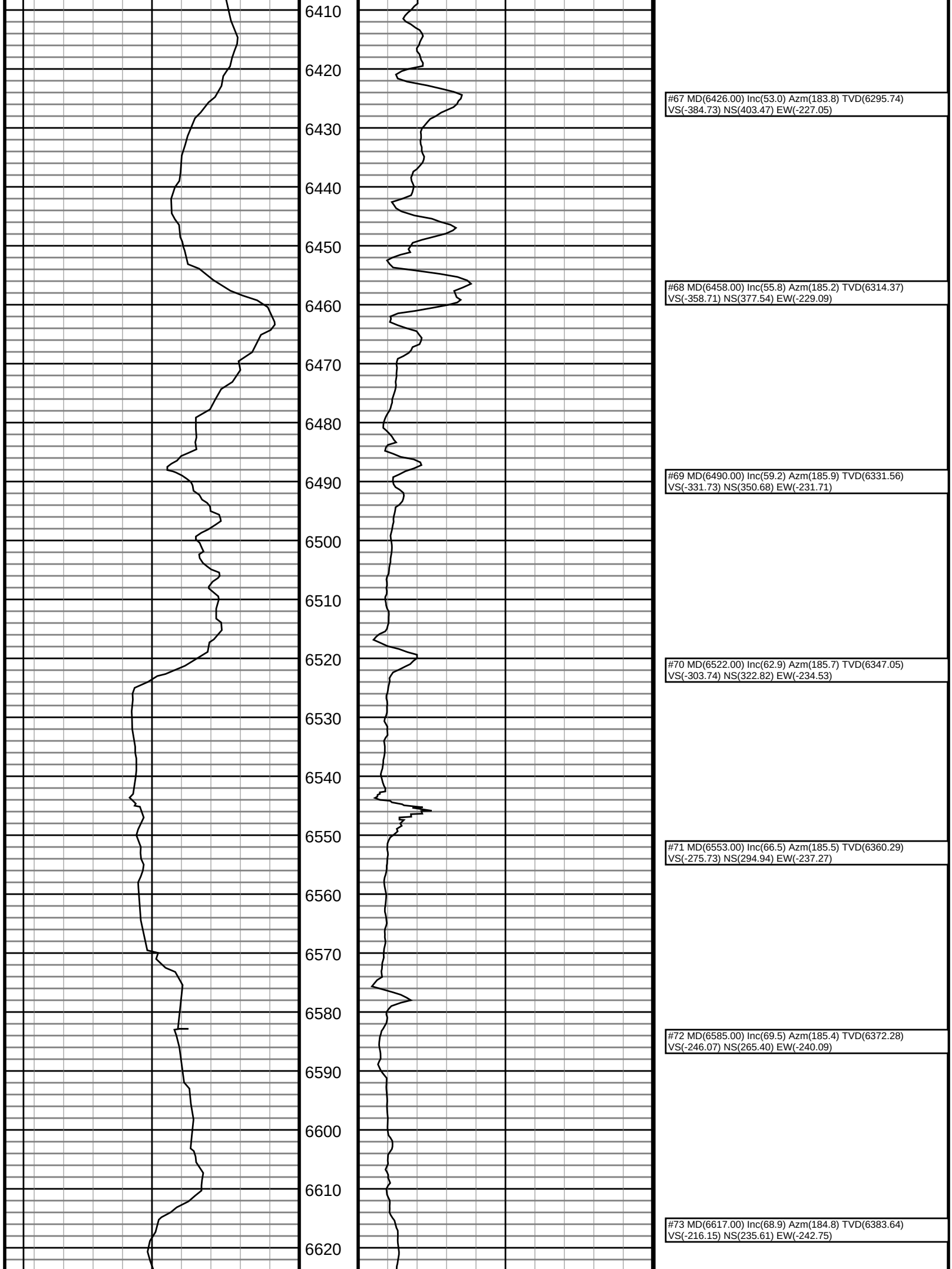
#62 MD(6268.00) Inc(38.2) Azm(185.7) TVD(6185.74)
VS(-497.52) NS(515.84) EW(-217.14)

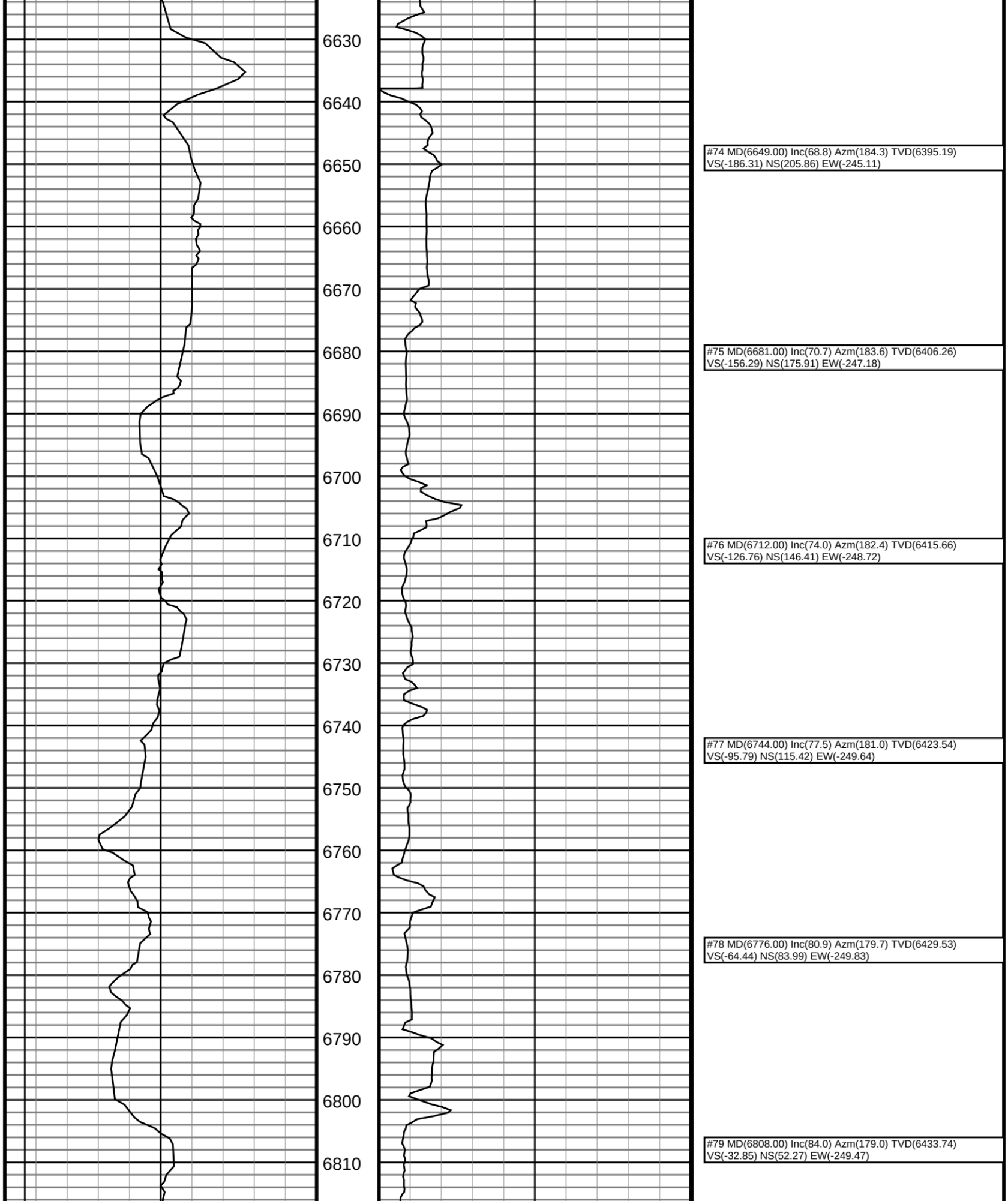
#63 MD(6299.00) Inc(41.3) Azm(185.2) TVD(6209.57)
VS(-477.71) NS(496.10) EW(-219.02)

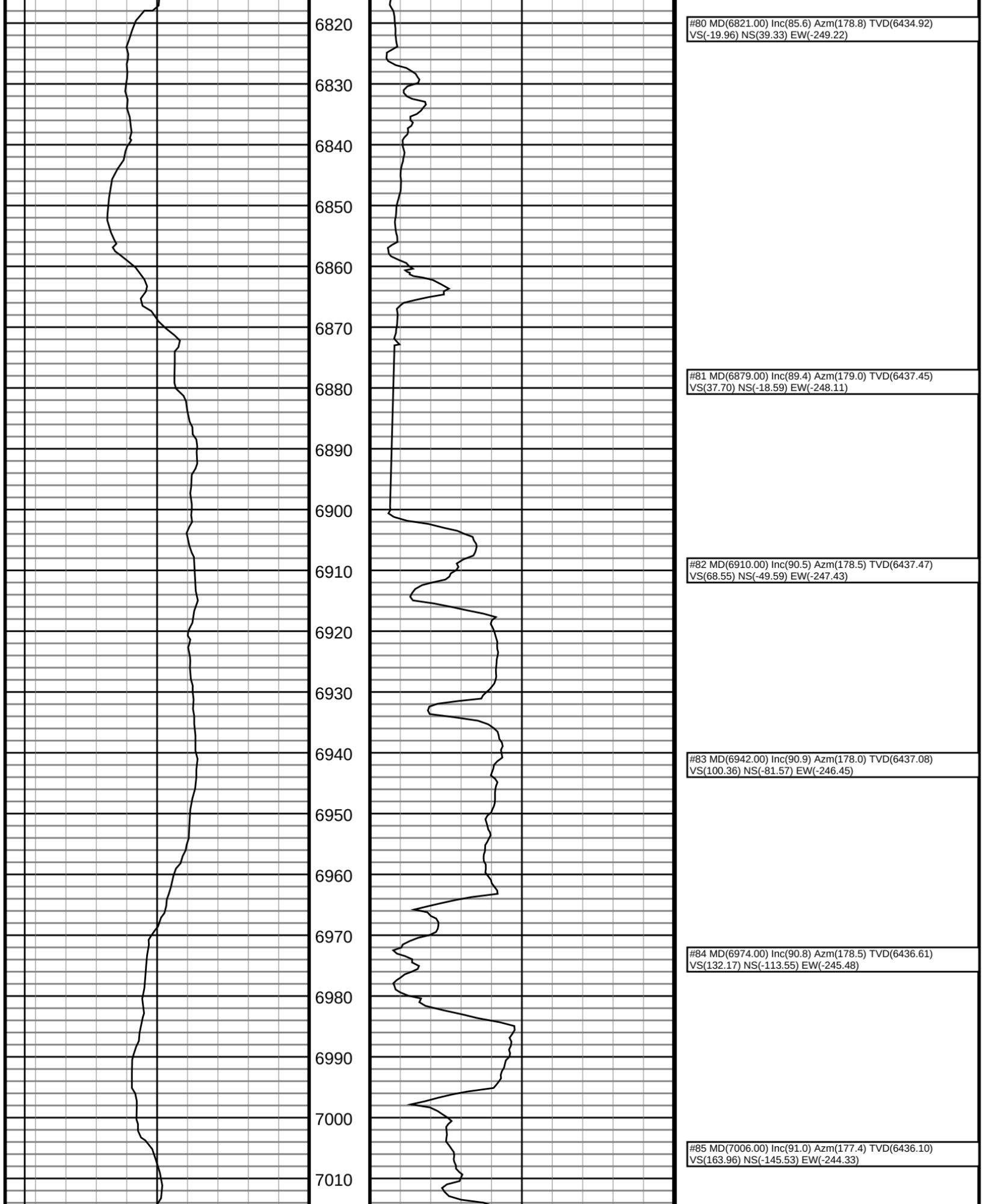
#64 MD(6331.00) Inc(44.2) Azm(185.5) TVD(6233.06)
VS(-455.99) NS(474.48) EW(-221.04)

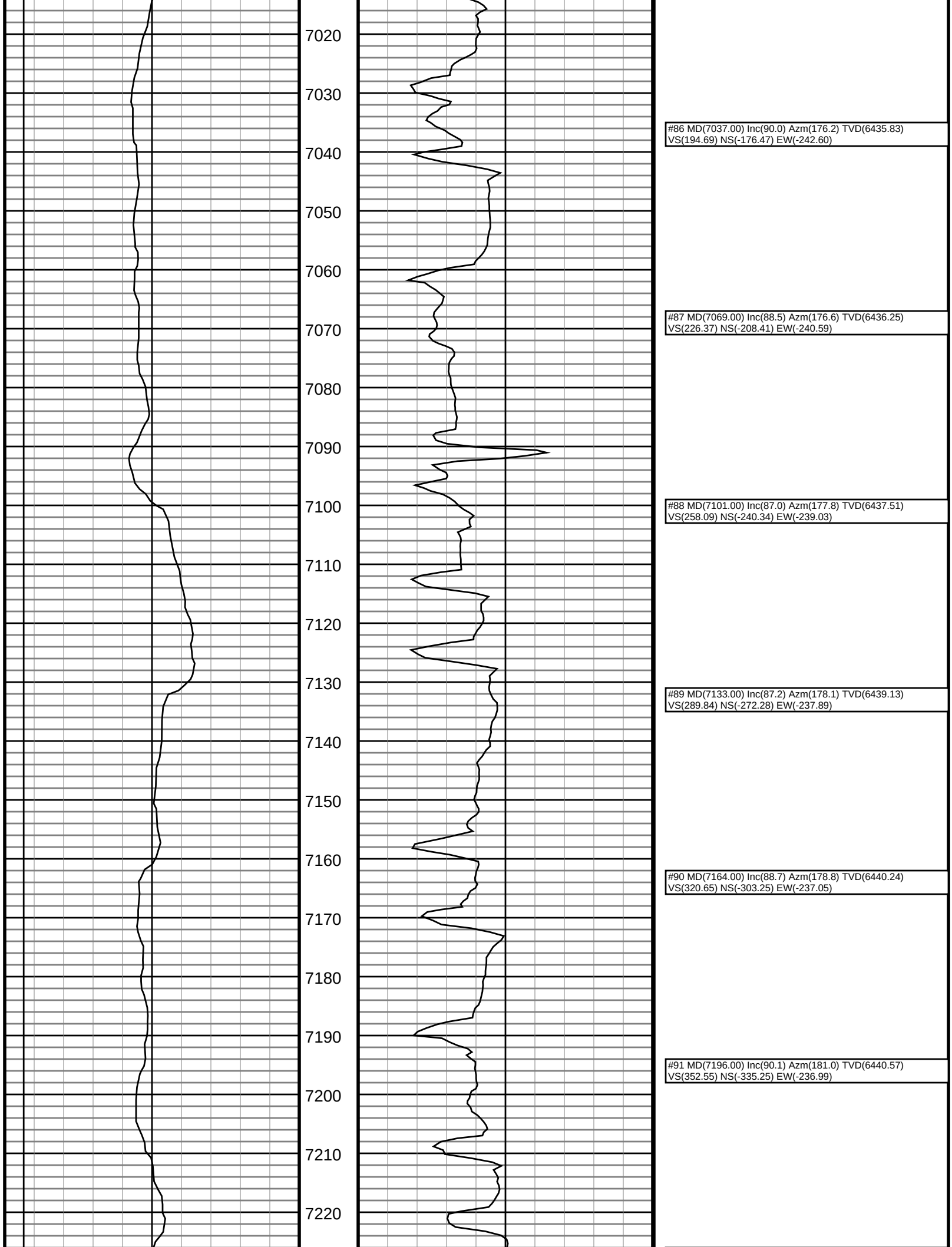
#65 MD(6363.00) Inc(47.3) Azm(185.4) TVD(6255.39)
VS(-433.07) NS(451.67) EW(-223.22)

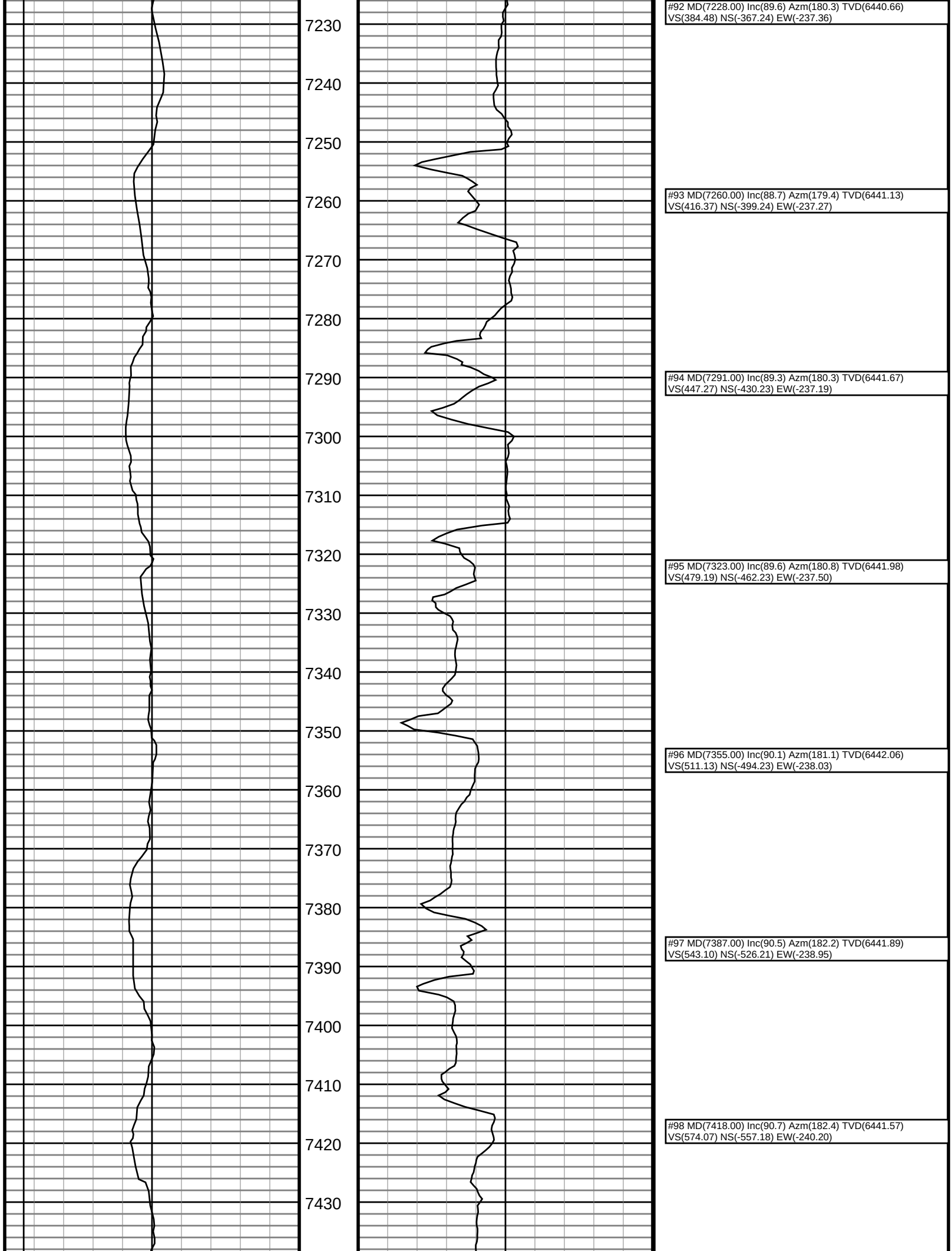
#66 MD(6395.00) Inc(50.2) Azm(184.5) TVD(6276.49)
VS(-409.02) NS(427.70) EW(-225.29)

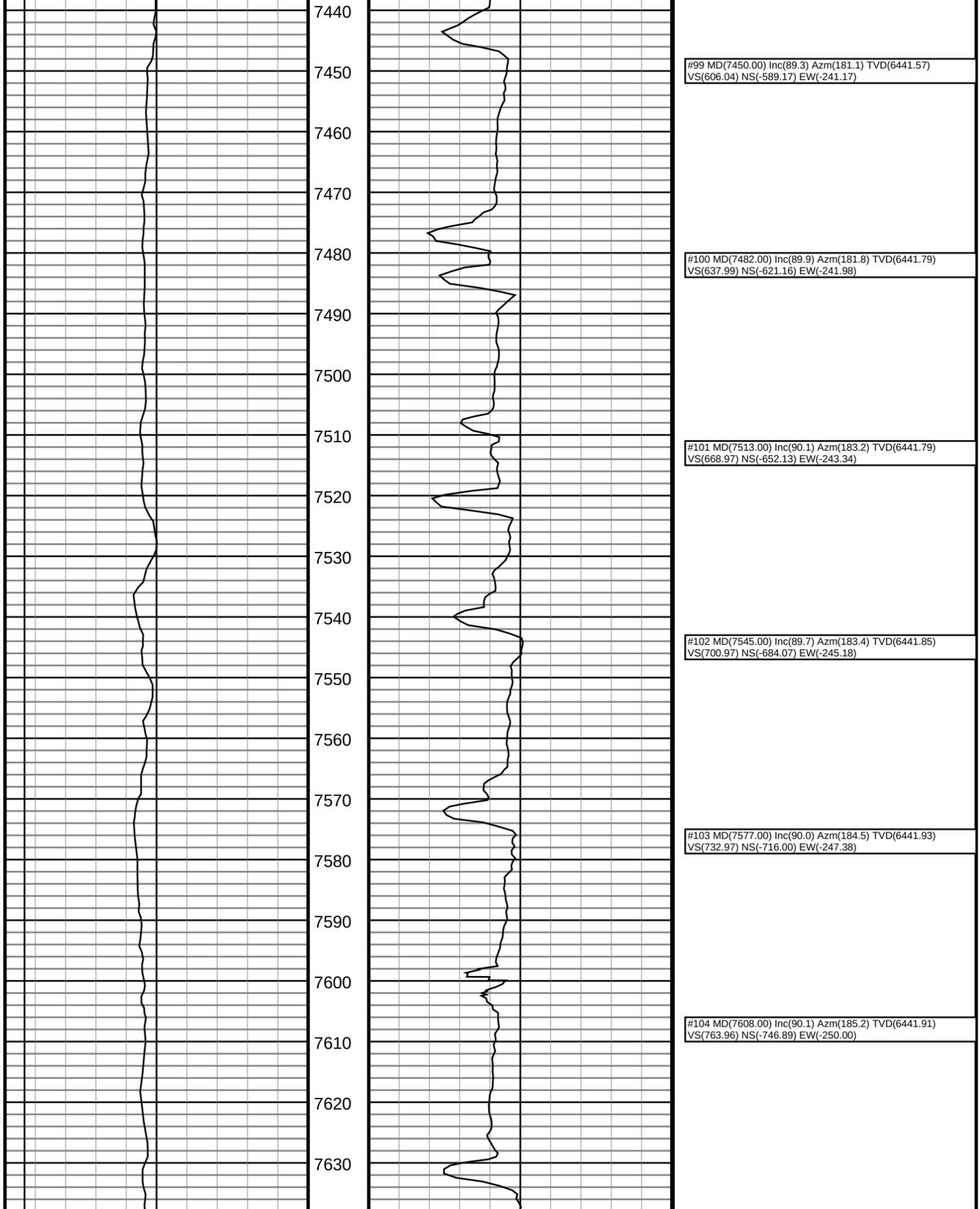

6410
6420
6430
6440
6450
6460
6470
6480
6490
6500
6510
6520
6530
6540
6550
6560
6570
6580
6590
6600
6610
6620
#67 MD(6426.00) Inc(53.0) Azm(183.8) TVD(6295.74)
VS(-384.73) NS(403.47) EW(-227.05)
#68 MD(6458.00) Inc(55.8) Azm(185.2) TVD(6314.37)
VS(-358.71) NS(377.54) EW(-229.09)
#69 MD(6490.00) Inc(59.2) Azm(185.9) TVD(6331.56)
VS(-331.73) NS(350.68) EW(-231.71)
#70 MD(6522.00) Inc(62.9) Azm(185.7) TVD(6347.05)
VS(-303.74) NS(322.82) EW(-234.53)
#71 MD(6553.00) Inc(66.5) Azm(185.5) TVD(6360.29)
VS(-275.73) NS(294.94) EW(-237.27)
#72 MD(6585.00) Inc(69.5) Azm(185.4) TVD(6372.28)
VS(-246.07) NS(265.40) EW(-240.09)
#73 MD(6617.00) Inc(68.9) Azm(184.8) TVD(6383.64)
VS(-216.15) NS(235.61) EW(-242.75)

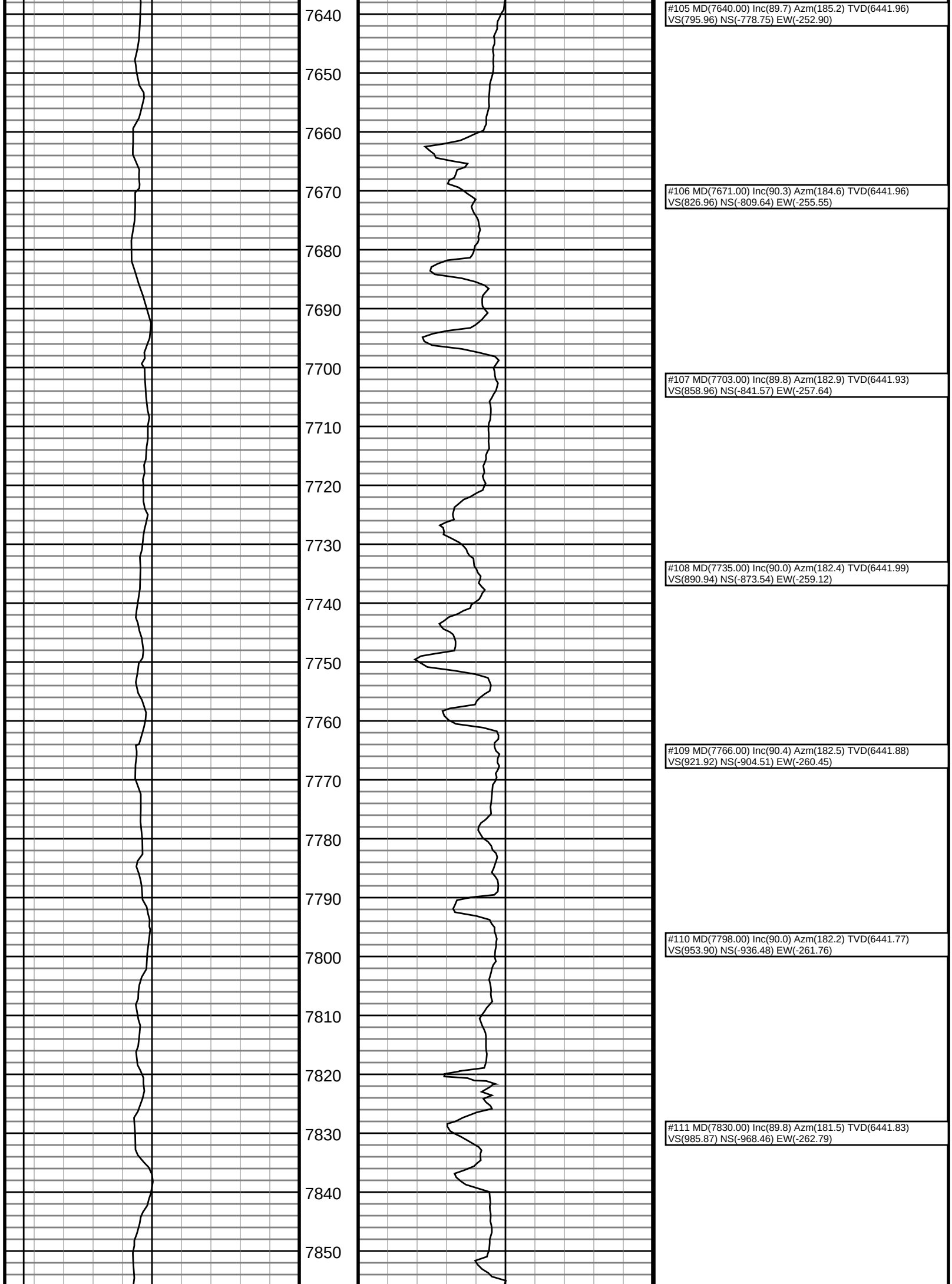

6630
6640
6650
6660
6670
6680
6690
6700
6710
6720
6730
6740
6750
6760
6770
6780
6790
6800
6810
#74 MD(6649.00) Inc(68.8) Azm(184.3) TVD(6395.19)
VS(-186.31) NS(205.86) EW(-245.11)
#75 MD(6681.00) Inc(70.7) Azm(183.6) TVD(6406.26)
VS(-156.29) NS(175.91) EW(-247.18)
#76 MD(6712.00) Inc(74.0) Azm(182.4) TVD(6415.66)
VS(-126.76) NS(146.41) EW(-248.72)
#77 MD(6744.00) Inc(77.5) Azm(181.0) TVD(6423.54)
VS(-95.79) NS(115.42) EW(-249.64)
#78 MD(6776.00) Inc(80.9) Azm(179.7) TVD(6429.53)
VS(-64.44) NS(83.99) EW(-249.83)
#79 MD(6808.00) Inc(84.0) Azm(179.0) TVD(6433.74)
VS(-32.85) NS(52.27) EW(-249.47)

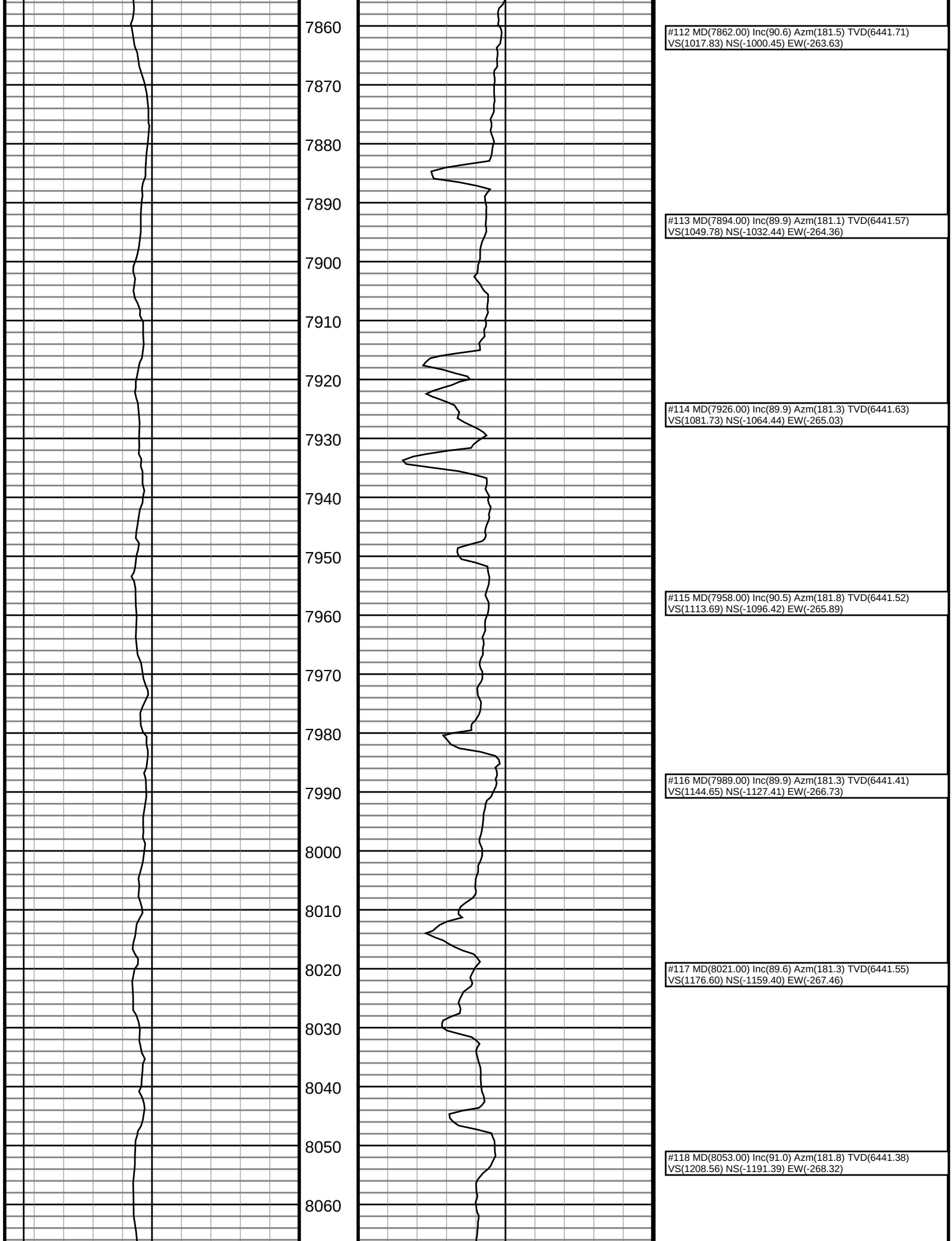

6820
6830
6840
6850
6860
6870
6880
6890
6900
6910
6920
6930
6940
6950
6960
6970
6980
6990
7000
7010
#80 MD(6821.00) Inc(85.6) Azm(178.8) TVD(6434.92)
VS(-19.96) NS(39.33) EW(-249.22)
#81 MD(6879.00) Inc(89.4) Azm(179.0) TVD(6437.45)
VS(37.70) NS(-18.59) EW(-248.11)
#82 MD(6910.00) Inc(90.5) Azm(178.5) TVD(6437.47)
VS(68.55) NS(-49.59) EW(-247.43)
#83 MD(6942.00) Inc(90.9) Azm(178.0) TVD(6437.08)
VS(100.36) NS(-81.57) EW(-246.45)
#84 MD(6974.00) Inc(90.8) Azm(178.5) TVD(6436.61)
VS(132.17) NS(-113.55) EW(-245.48)
#85 MD(7006.00) Inc(91.0) Azm(177.4) TVD(6436.10)
VS(163.96) NS(-145.53) EW(-244.33)

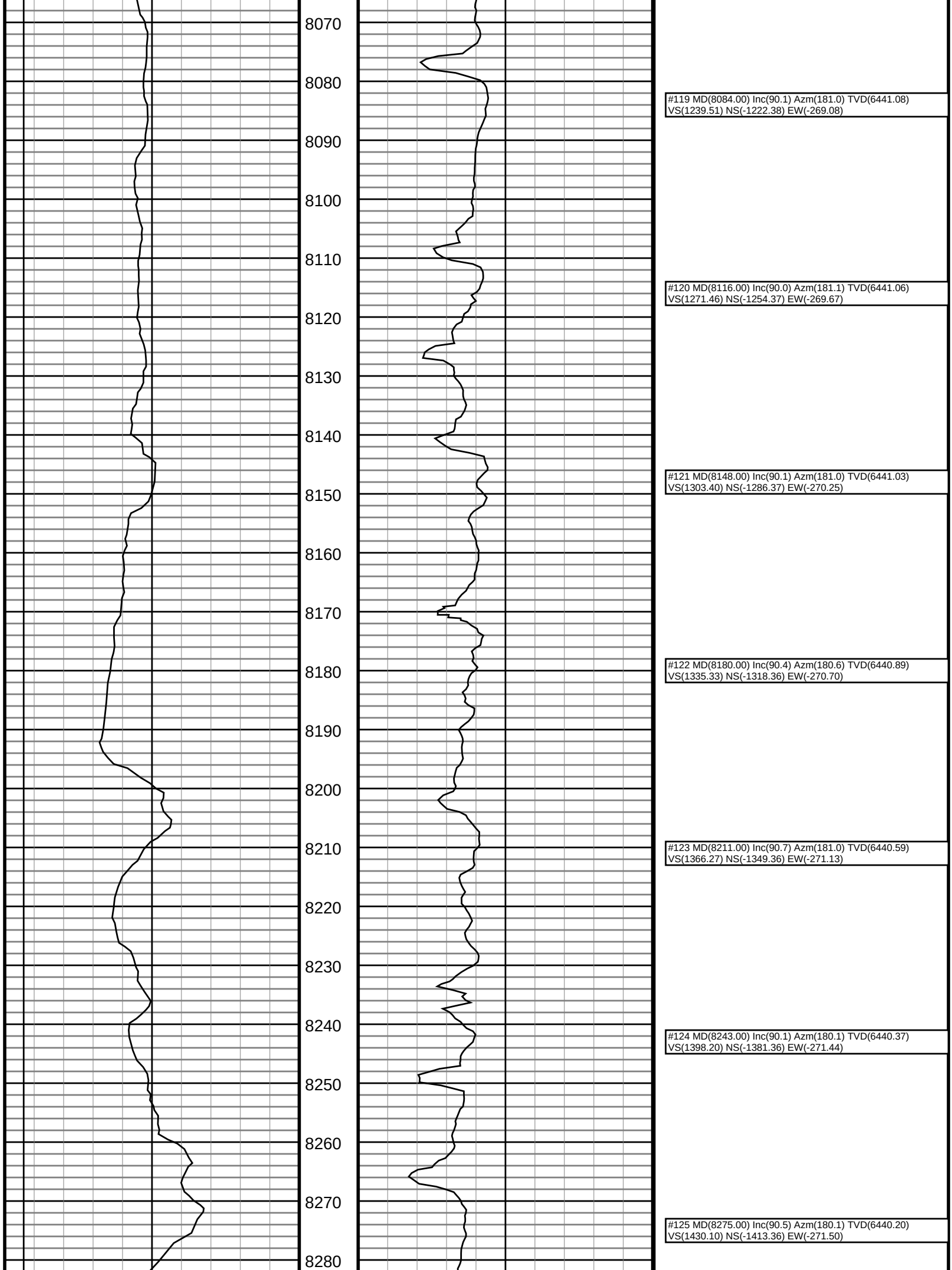

7020
7030
7040
7050
7060
7070
7080
7090
7100
7110
7120
7130
7140
7150
7160
7170
7180
7190
7200
7210
7220
#86 MD(7037.00) Inc(90.0) Azm(176.2) TVD(6435.83)
VS(194.69) NS(-176.47) EW(-242.60)
#87 MD(7069.00) Inc(88.5) Azm(176.6) TVD(6436.25)
VS(226.37) NS(-208.41) EW(-240.59)
#88 MD(7101.00) Inc(87.0) Azm(177.8) TVD(6437.51)
VS(258.09) NS(-240.34) EW(-239.03)
#89 MD(7133.00) Inc(87.2) Azm(178.1) TVD(6439.13)
VS(289.84) NS(-272.28) EW(-237.89)
#90 MD(7164.00) Inc(88.7) Azm(178.8) TVD(6440.24)
VS(320.65) NS(-303.25) EW(-237.05)
#91 MD(7196.00) Inc(90.1) Azm(181.0) TVD(6440.57)
VS(352.55) NS(-335.25) EW(-236.99)

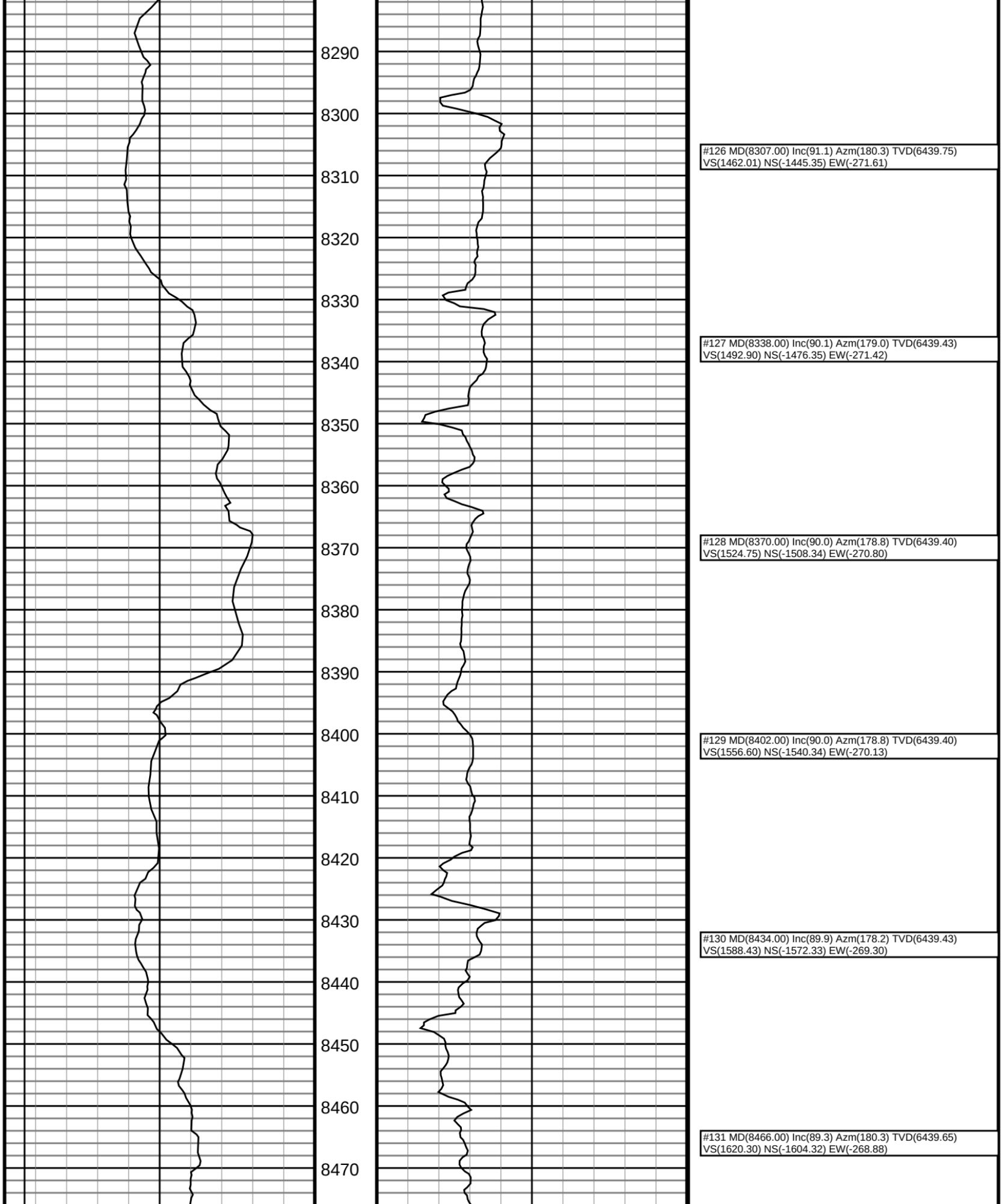

7230
7240
7250
7260
7270
7280
7290
7300
7310
7320
7330
7340
7350
7360
7370
7380
7390
7400
7410
7420
7430
#92 MD(7228.00) Inc(89.6) Azm(180.3) TVD(6440.66)
VS(384.48) NS(-367.24) EW(-237.36)
#93 MD(7260.00) Inc(88.7) Azm(179.4) TVD(6441.13)
VS(416.37) NS(-399.24) EW(-237.27)
#94 MD(7291.00) Inc(89.3) Azm(180.3) TVD(6441.67)
VS(447.27) NS(-430.23) EW(-237.19)
#95 MD(7323.00) Inc(89.6) Azm(180.8) TVD(6441.98)
VS(479.19) NS(-462.23) EW(-237.50)
#96 MD(7355.00) Inc(90.1) Azm(181.1) TVD(6442.06)
VS(511.13) NS(-494.23) EW(-238.03)
#97 MD(7387.00) Inc(90.5) Azm(182.2) TVD(6441.89)
VS(543.10) NS(-526.21) EW(-238.95)
#98 MD(7418.00) Inc(90.7) Azm(182.4) TVD(6441.57)
VS(574.07) NS(-557.18) EW(-240.20)

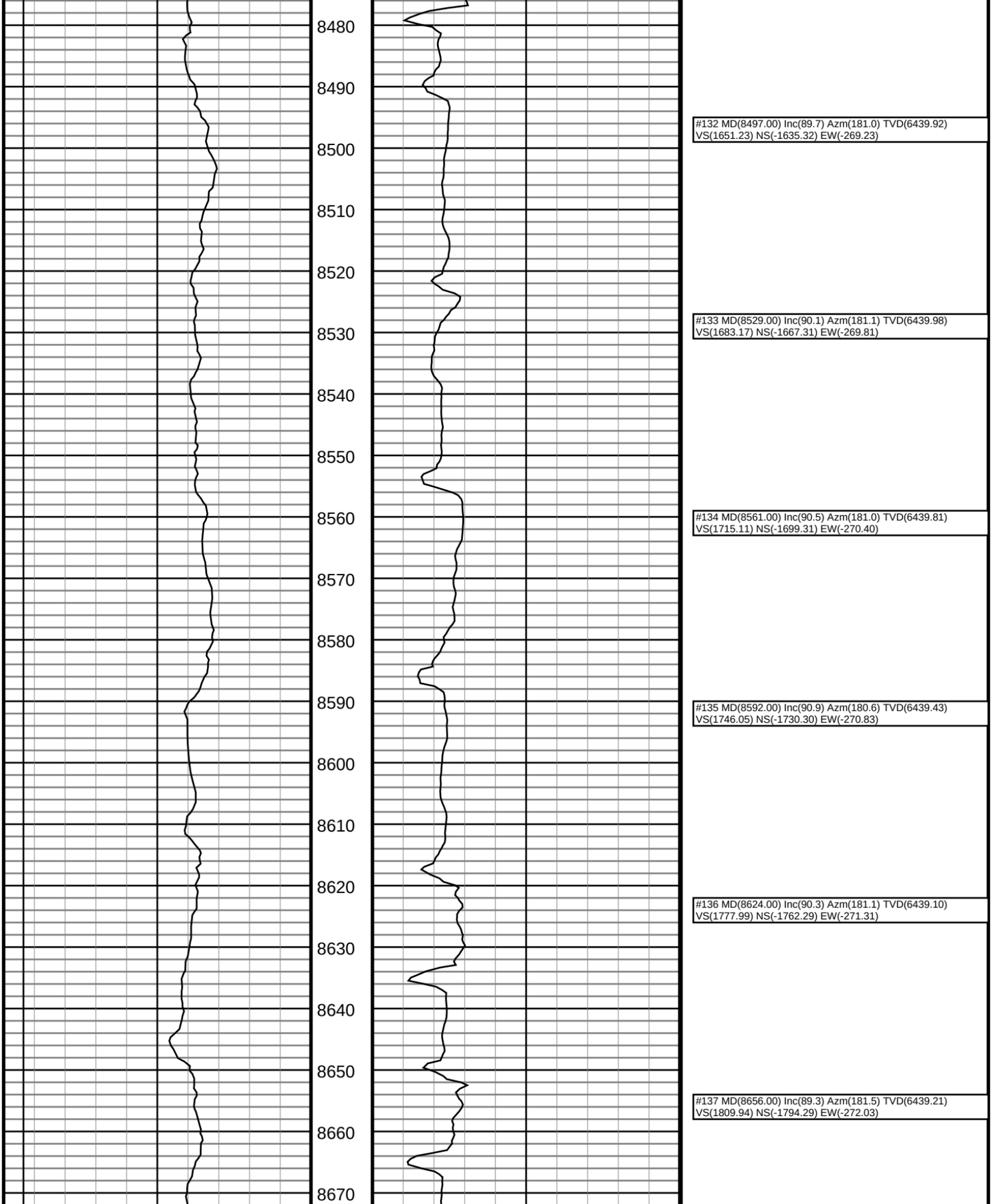

7440
7450
7460
7470
7480
7490
7500
7510
7520
7530
7540
7550
7560
7570
7580
7590
7600
7610
7620
7630
#99 MD(7450.00) Inc(89.3) Azm(181.1) TVD(6441.57)
VS(606.04) NS(-589.17) EW(-241.17)
#100 MD(7482.00) Inc(89.9) Azm(181.8) TVD(6441.79)
VS(637.99) NS(-621.16) EW(-241.98)
#101 MD(7513.00) Inc(90.1) Azm(183.2) TVD(6441.79)
VS(668.97) NS(-652.13) EW(-243.34)
#102 MD(7545.00) Inc(89.7) Azm(183.4) TVD(6441.85)
VS(700.97) NS(-684.07) EW(-245.18)
#103 MD(7577.00) Inc(90.0) Azm(184.5) TVD(6441.93)
VS(732.97) NS(-716.00) EW(-247.38)
#104 MD(7608.00) Inc(90.1) Azm(185.2) TVD(6441.91)
VS(763.96) NS(-746.89) EW(-250.00)

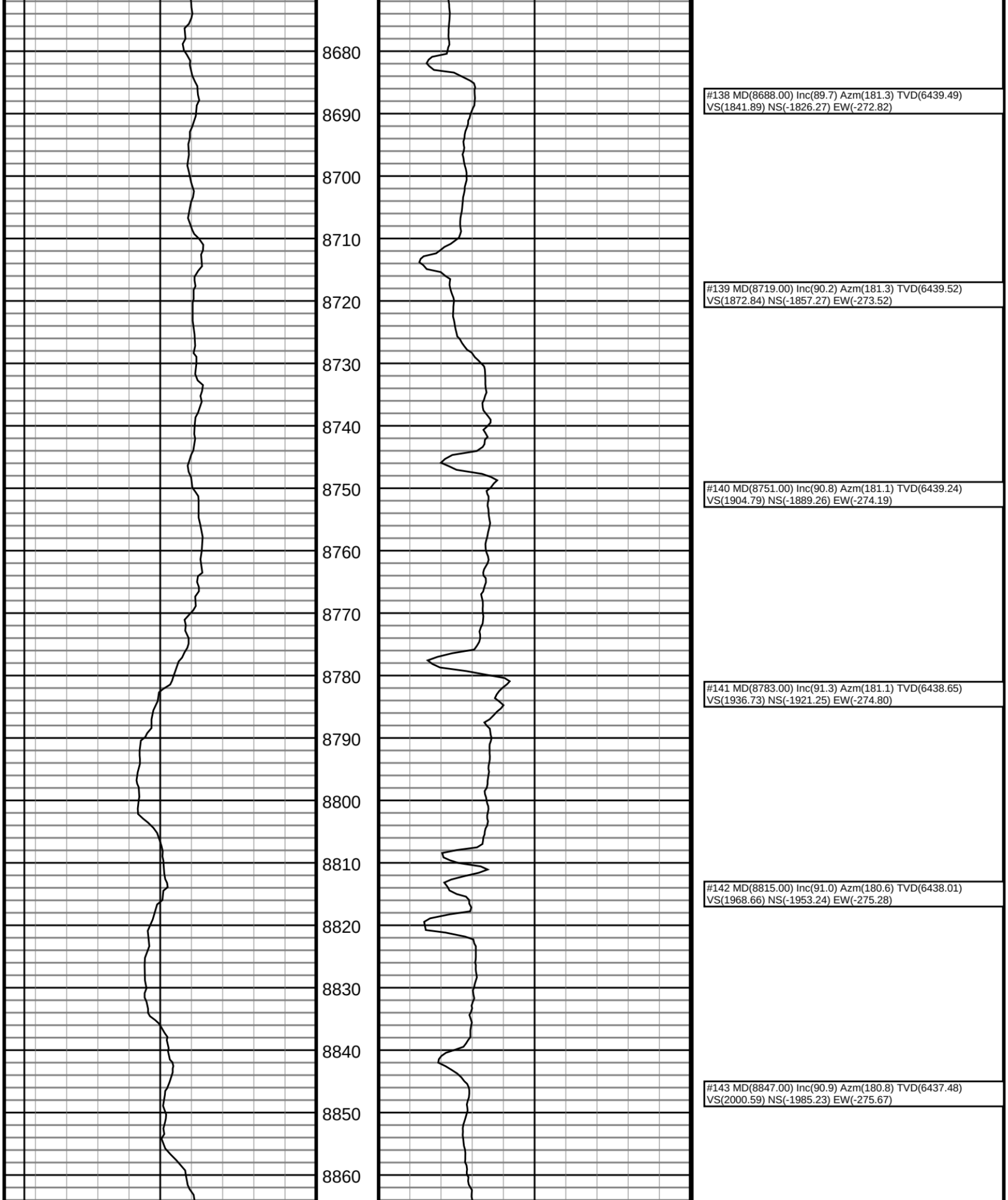

7640
7650
7660
7670
7680
7690
7700
7710
7720
7730
7740
7750
7760
7770
7780
7790
7800
7810
7820
7830
7840
7850
#105 MD(7640.00) Inc(89.7) Azm(185.2) TVD(6441.96)
VS(795.96) NS(-778.75) EW(-252.90)
#106 MD(7671.00) Inc(90.3) Azm(184.6) TVD(6441.96)
VS(826.96) NS(-809.64) EW(-255.55)
#107 MD(7703.00) Inc(89.8) Azm(182.9) TVD(6441.93)
VS(858.96) NS(-841.57) EW(-257.64)
#108 MD(7735.00) Inc(90.0) Azm(182.4) TVD(6441.99)
VS(890.94) NS(-873.54) EW(-259.12)
#109 MD(7766.00) Inc(90.4) Azm(182.5) TVD(6441.88)
VS(921.92) NS(-904.51) EW(-260.45)
#110 MD(7798.00) Inc(90.0) Azm(182.2) TVD(6441.77)
VS(953.90) NS(-936.48) EW(-261.76)
#111 MD(7830.00) Inc(89.8) Azm(181.5) TVD(6441.83)
VS(985.87) NS(-968.46) EW(-262.79)

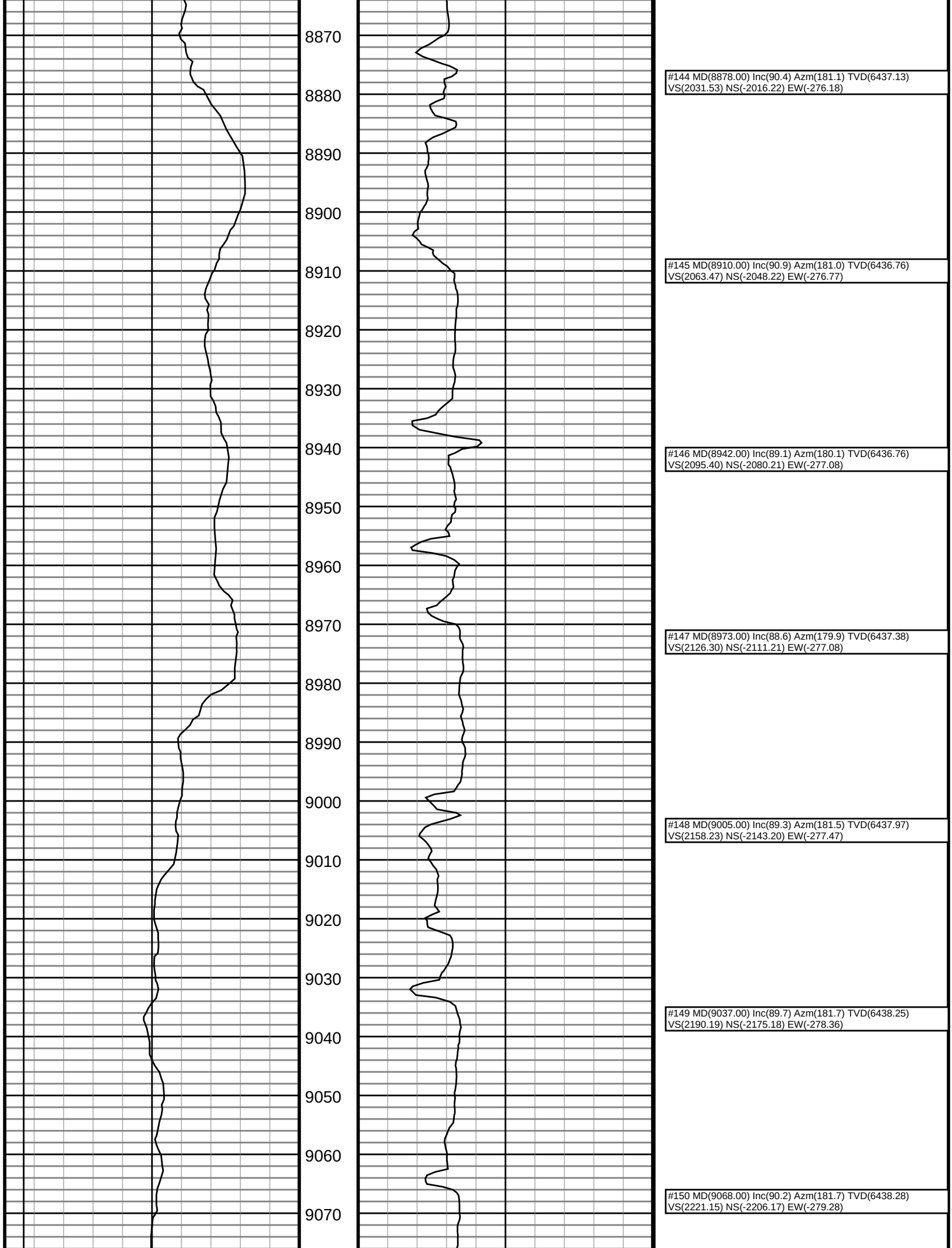

7860
7870
7880
7890
7900
7910
7920
7930
7940
7950
7960
7970
7980
7990
8000
8010
8020
8030
8040
8050
8060
#112 MD(7862.00) Inc(90.6) Azm(181.5) TVD(6441.71)
VS(1017.83) NS(-1000.45) EW(-263.63)
#113 MD(7894.00) Inc(89.9) Azm(181.1) TVD(6441.57)
VS(1049.78) NS(-1032.44) EW(-264.36)
#114 MD(7926.00) Inc(89.9) Azm(181.3) TVD(6441.63)
VS(1081.73) NS(-1064.44) EW(-265.03)
#115 MD(7958.00) Inc(90.5) Azm(181.8) TVD(6441.52)
VS(1113.69) NS(-1096.42) EW(-265.89)
#116 MD(7989.00) Inc(89.9) Azm(181.3) TVD(6441.41)
VS(1144.65) NS(-1127.41) EW(-266.73)
#117 MD(8021.00) Inc(89.6) Azm(181.3) TVD(6441.55)
VS(1176.60) NS(-1159.40) EW(-267.46)
#118 MD(8053.00) Inc(91.0) Azm(181.8) TVD(6441.38)
VS(1208.56) NS(-1191.39) EW(-268.32)

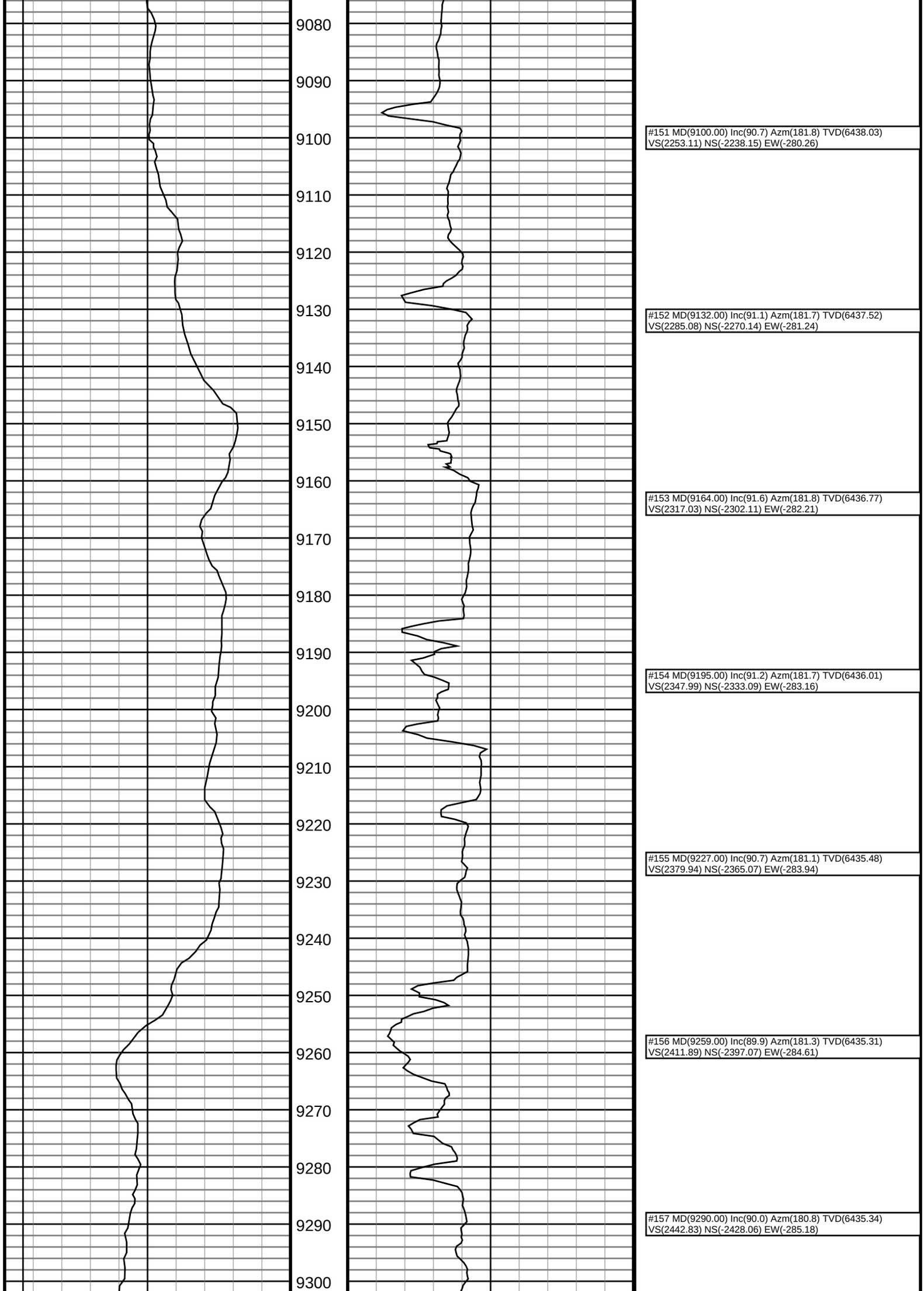

8070
8080
8090
8100
8110
8120
8130
8140
8150
8160
8170
8180
8190
8200
8210
8220
8230
8240
8250
8260
8270
8280
#119 MD(8084.00) Inc(90.1) Azm(181.0) TVD(6441.08)
VS(1239.51) NS(-1222.38) EW(-269.08)
#120 MD(8116.00) Inc(90.0) Azm(181.1) TVD(6441.06)
VS(1271.46) NS(-1254.37) EW(-269.67)
#121 MD(8148.00) Inc(90.1) Azm(181.0) TVD(6441.03)
VS(1303.40) NS(-1286.37) EW(-270.25)
#122 MD(8180.00) Inc(90.4) Azm(180.6) TVD(6440.89)
VS(1335.33) NS(-1318.36) EW(-270.70)
#123 MD(8211.00) Inc(90.7) Azm(181.0) TVD(6440.59)
VS(1366.27) NS(-1349.36) EW(-271.13)
#124 MD(8243.00) Inc(90.1) Azm(180.1) TVD(6440.37)
VS(1398.20) NS(-1381.36) EW(-271.44)
#125 MD(8275.00) Inc(90.5) Azm(180.1) TVD(6440.20)
VS(1430.10) NS(-1413.36) EW(-271.50)

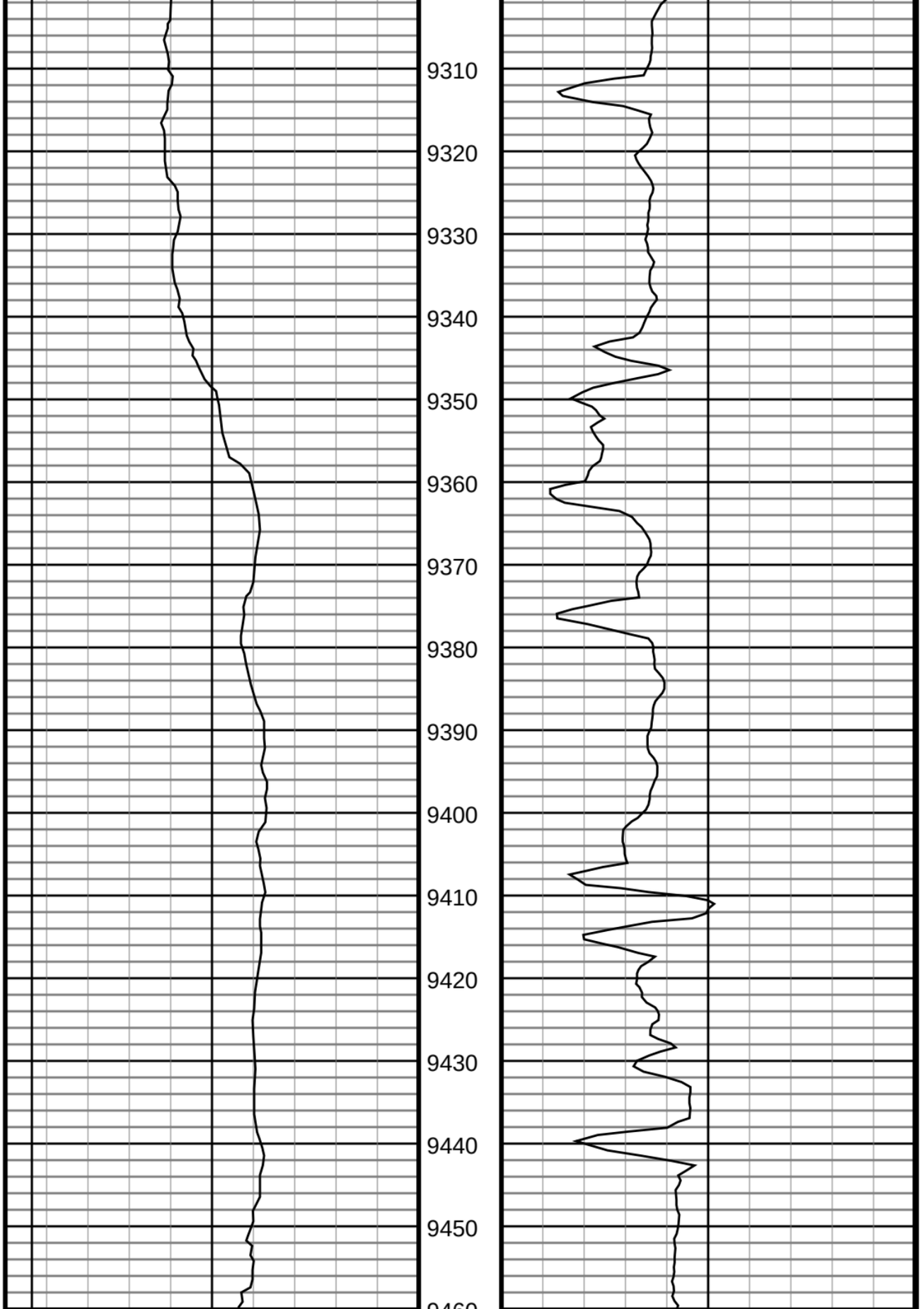

8290
8300
8310
8320
8330
8340
8350
8360
8370
8380
8390
8400
8410
8420
8430
8440
8450
8460
8470
#126 MD(8307.00) Inc(91.1) Azm(180.3) TVD(6439.75)
VS(1462.01) NS(-1445.35) EW(-271.61)
#127 MD(8338.00) Inc(90.1) Azm(179.0) TVD(6439.43)
VS(1492.90) NS(-1476.35) EW(-271.42)
#128 MD(8370.00) Inc(90.0) Azm(178.8) TVD(6439.40)
VS(1524.75) NS(-1508.34) EW(-270.80)
#129 MD(8402.00) Inc(90.0) Azm(178.8) TVD(6439.40)
VS(1556.60) NS(-1540.34) EW(-270.13)
#130 MD(8434.00) Inc(89.9) Azm(178.2) TVD(6439.43)
VS(1588.43) NS(-1572.33) EW(-269.30)
#131 MD(8466.00) Inc(89.3) Azm(180.3) TVD(6439.65)
VS(1620.30) NS(-1604.32) EW(-268.88)


8480
8490
8500
8510
8520
8530
8540
8550
8560
8570
8580
8590
8600
8610
8620
8630
8640
8650
8660
8670
#132 MD(8497.00) Inc(89.7) Azm(181.0) TVD(6439.92)
VS(1651.23) NS(-1635.32) EW(-269.23)
#133 MD(8529.00) Inc(90.1) Azm(181.1) TVD(6439.98)
VS(1683.17) NS(-1667.31) EW(-269.81)
#134 MD(8561.00) Inc(90.5) Azm(181.0) TVD(6439.81)
VS(1715.11) NS(-1699.31) EW(-270.40)
#135 MD(8592.00) Inc(90.9) Azm(180.6) TVD(6439.43)
VS(1746.05) NS(-1730.30) EW(-270.83)
#136 MD(8624.00) Inc(90.3) Azm(181.1) TVD(6439.10)
VS(1777.99) NS(-1762.29) EW(-271.31)
#137 MD(8656.00) Inc(89.3) Azm(181.5) TVD(6439.21)
VS(1809.94) NS(-1794.29) EW(-272.03)


8680
8690
8700
8710
8720
8730
8740
8750
8760
8770
8780
8790
8800
8810
8820
8830
8840
8850
8860
#138 MD(8688.00) Inc(89.7) Azm(181.3) TVD(6439.49)
VS(1841.89) NS(-1826.27) EW(-272.82)
#139 MD(8719.00) Inc(90.2) Azm(181.3) TVD(6439.52)
VS(1872.84) NS(-1857.27) EW(-273.52)
#140 MD(8751.00) Inc(90.8) Azm(181.1) TVD(6439.24)
VS(1904.79) NS(-1889.26) EW(-274.19)
#141 MD(8783.00) Inc(91.3) Azm(181.1) TVD(6438.65)
VS(1936.73) NS(-1921.25) EW(-274.80)
#142 MD(8815.00) Inc(91.0) Azm(180.6) TVD(6438.01)
VS(1968.66) NS(-1953.24) EW(-275.28)
#143 MD(8847.00) Inc(90.9) Azm(180.8) TVD(6437.48)
VS(2000.59) NS(-1985.23) EW(-275.67)


8870
8880
8890
8900
8910
8920
8930
8940
8950
8960
8970
8980
8990
9000
9010
9020
9030
9040
9050
9060
9070
#144 MD(8878.00) Inc(90.4) Azm(181.1) TVD(6437.13)
VS(2031.53) NS(-2016.22) EW(-276.18)
#145 MD(8910.00) Inc(90.9) Azm(181.0) TVD(6436.76)
VS(2063.47) NS(-2048.22) EW(-276.77)
#146 MD(8942.00) Inc(89.1) Azm(180.1) TVD(6436.76)
VS(2095.40) NS(-2080.21) EW(-277.08)
#147 MD(8973.00) Inc(88.6) Azm(179.9) TVD(6437.38)
VS(2126.30) NS(-2111.21) EW(-277.08)
#148 MD(9005.00) Inc(89.3) Azm(181.5) TVD(6437.97)
VS(2158.23) NS(-2143.20) EW(-277.47)
#149 MD(9037.00) Inc(89.7) Azm(181.7) TVD(6438.25)
VS(2190.19) NS(-2175.18) EW(-278.36)
#150 MD(9068.00) Inc(90.2) Azm(181.7) TVD(6438.28)
VS(2221.15) NS(-2206.17) EW(-279.28)


9080
9090
9100
9110
9120
9130
9140
9150
9160
9170
9180
9190
9200
9210
9220
9230
9240
9250
9260
9270
9280
9290
9300
#151 MD(9100.00) Inc(90.7) Azm(181.8) TVD(6438.03)
VS(2253.11) NS(-2238.15) EW(-280.26)
#152 MD(9132.00) Inc(91.1) Azm(181.7) TVD(6437.52)
VS(2285.08) NS(-2270.14) EW(-281.24)
#153 MD(9164.00) Inc(91.6) Azm(181.8) TVD(6436.77)
VS(2317.03) NS(-2302.11) EW(-282.21)
#154 MD(9195.00) Inc(91.2) Azm(181.7) TVD(6436.01)
VS(2347.99) NS(-2333.09) EW(-283.16)
#155 MD(9227.00) Inc(90.7) Azm(181.1) TVD(6435.48)
VS(2379.94) NS(-2365.07) EW(-283.94)
#156 MD(9259.00) Inc(89.9) Azm(181.3) TVD(6435.31)
VS(2411.89) NS(-2397.07) EW(-284.61)
#157 MD(9290.00) Inc(90.0) Azm(180.8) TVD(6435.34)
VS(2442.83) NS(-2428.06) EW(-285.18)



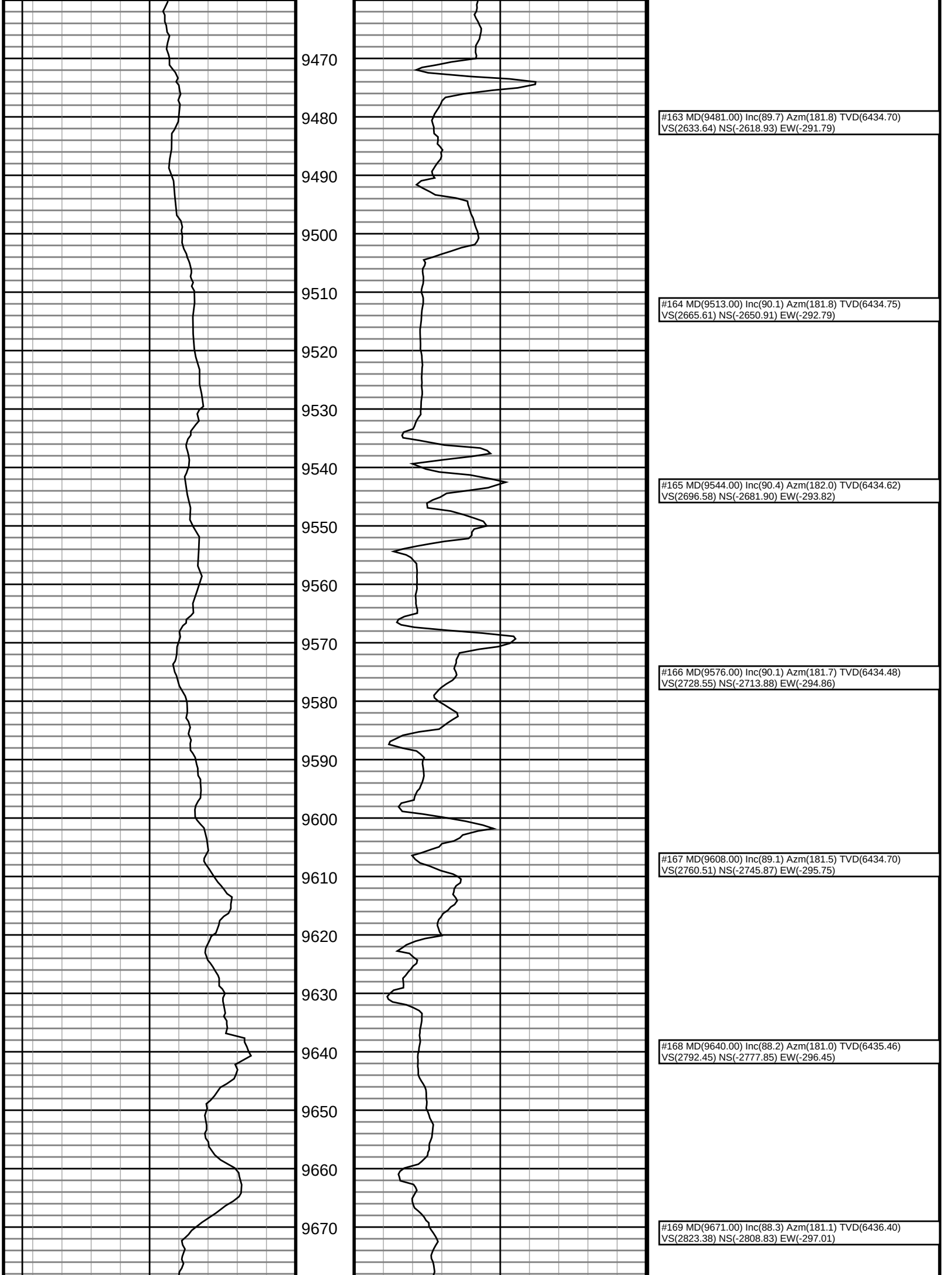
#158 MD(9322.00) Inc(90.4) Azm(181.0) TVD(6435.23)
VS(2474.77) NS(-2460.06) EW(-285.68)

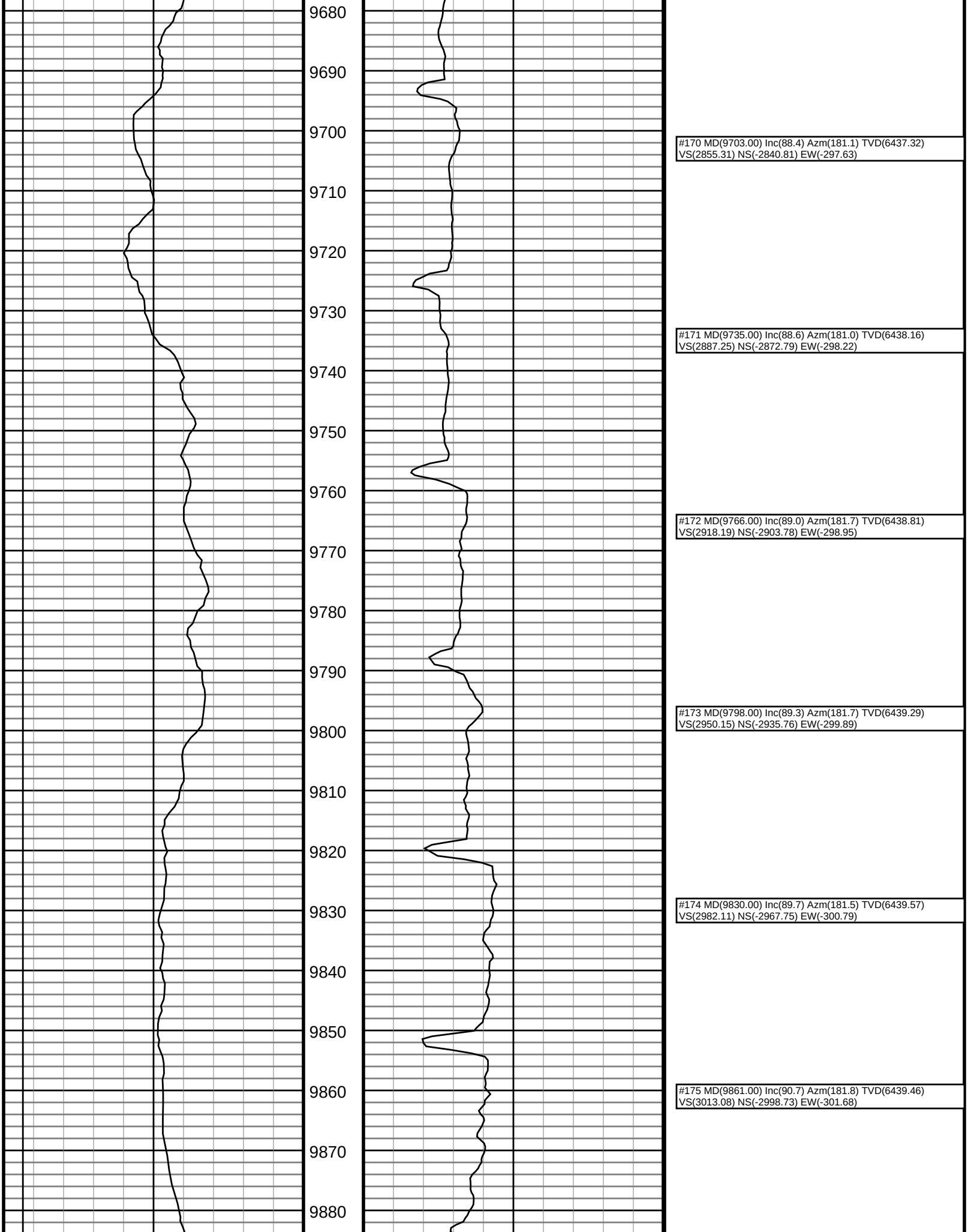
#159 MD(9354.00) Inc(89.8) Azm(182.0) TVD(6435.17)
VS(2506.73) NS(-2492.04) EW(-286.52)

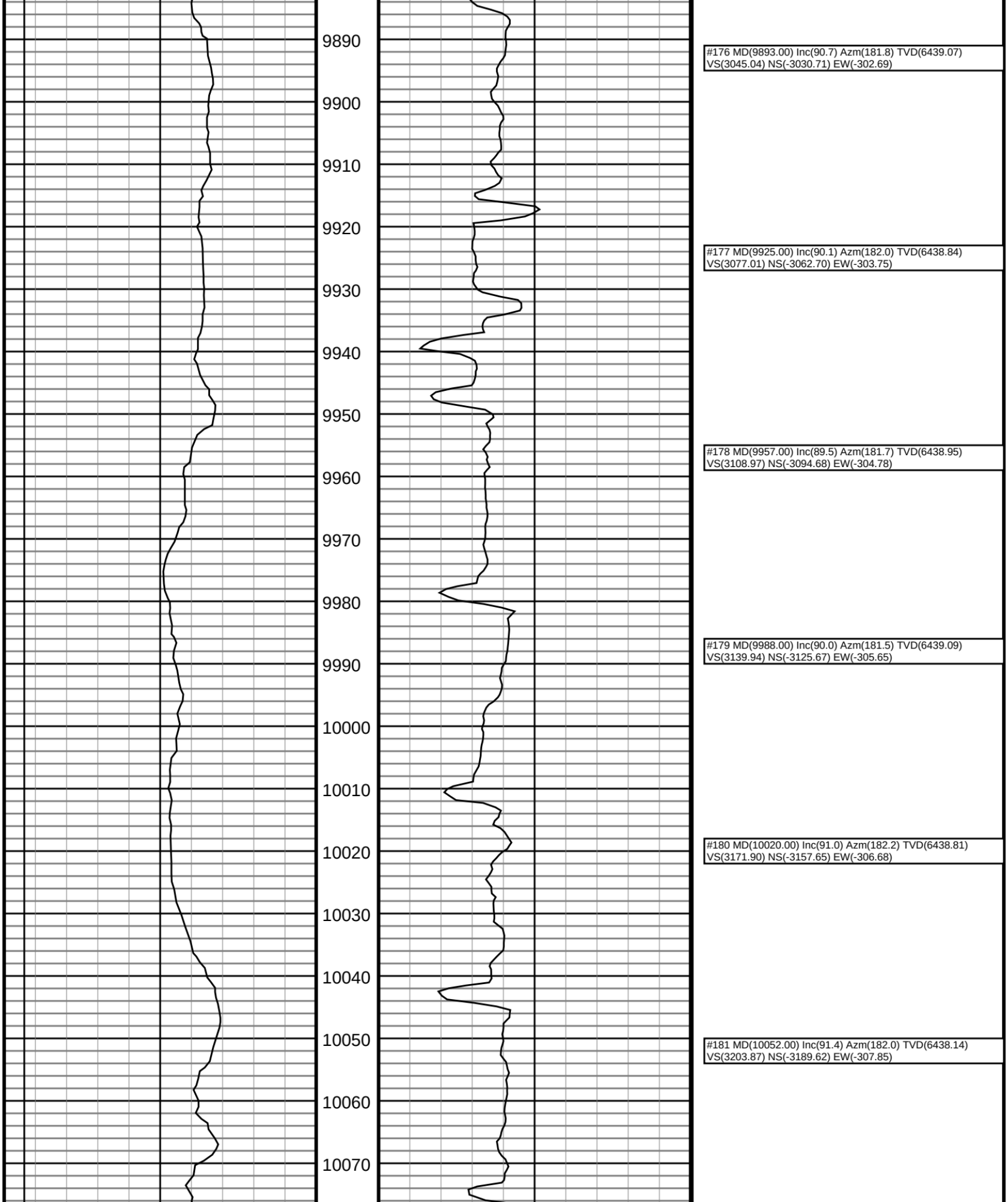
#160 MD(9385.00) Inc(90.1) Azm(181.8) TVD(6435.20)
VS(2537.70) NS(-2523.03) EW(-287.55)

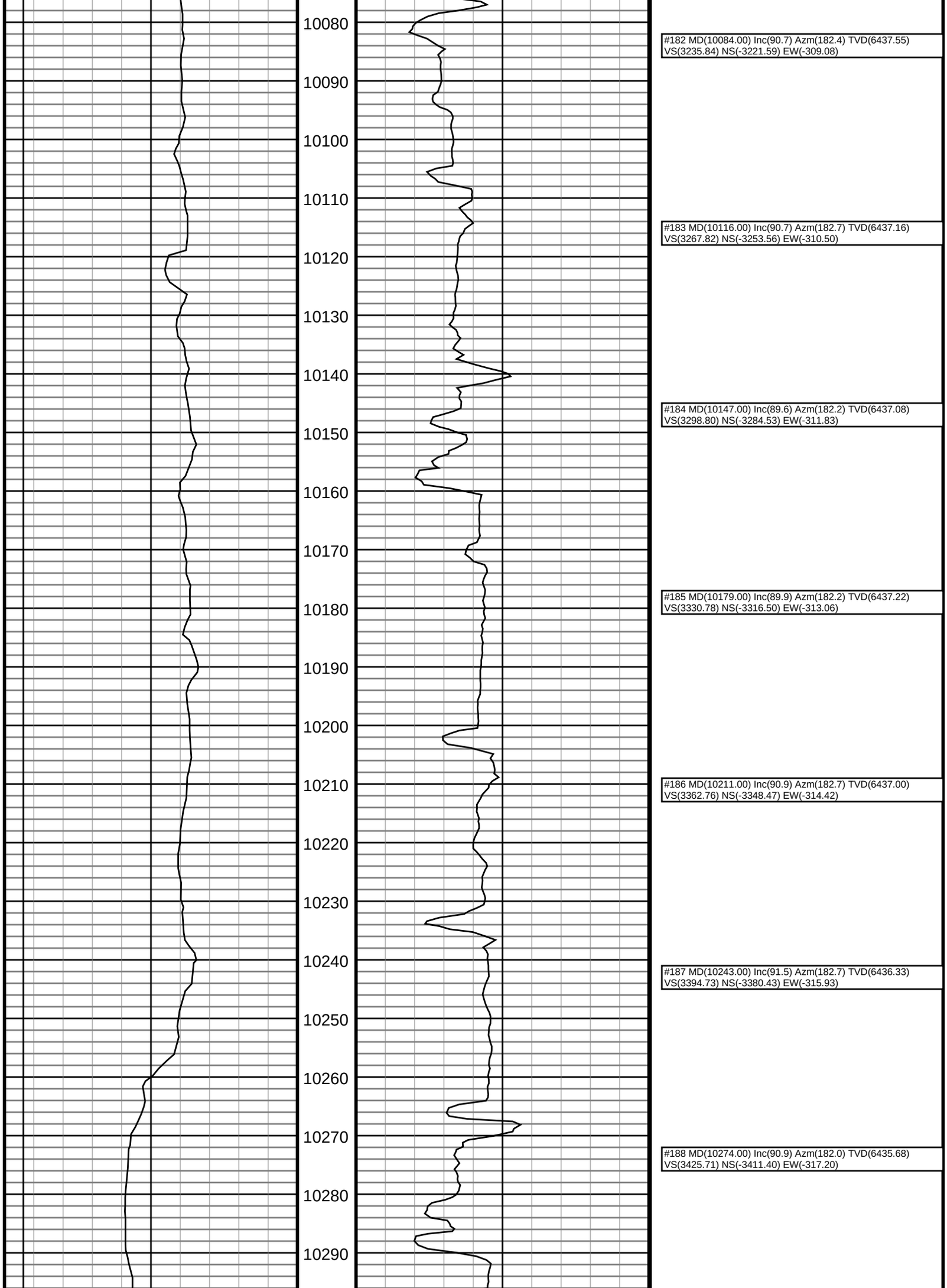
#161 MD(9417.00) Inc(90.3) Azm(182.9) TVD(6435.09)
VS(2569.68) NS(-2555.00) EW(-288.86)

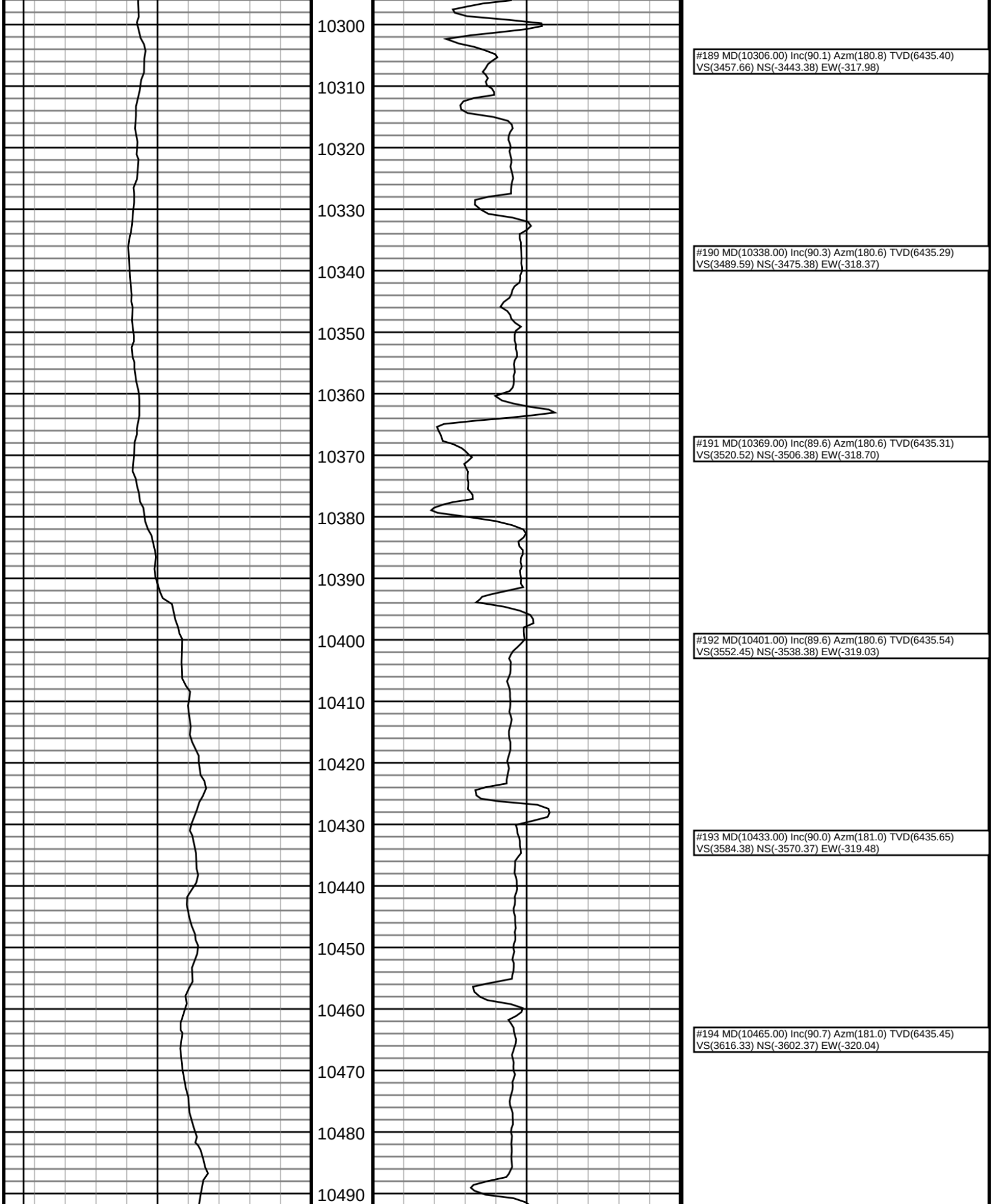
#162 MD(9449.00) Inc(90.7) Azm(182.9) TVD(6434.81)
VS(2601.67) NS(-2586.96) EW(-290.48)

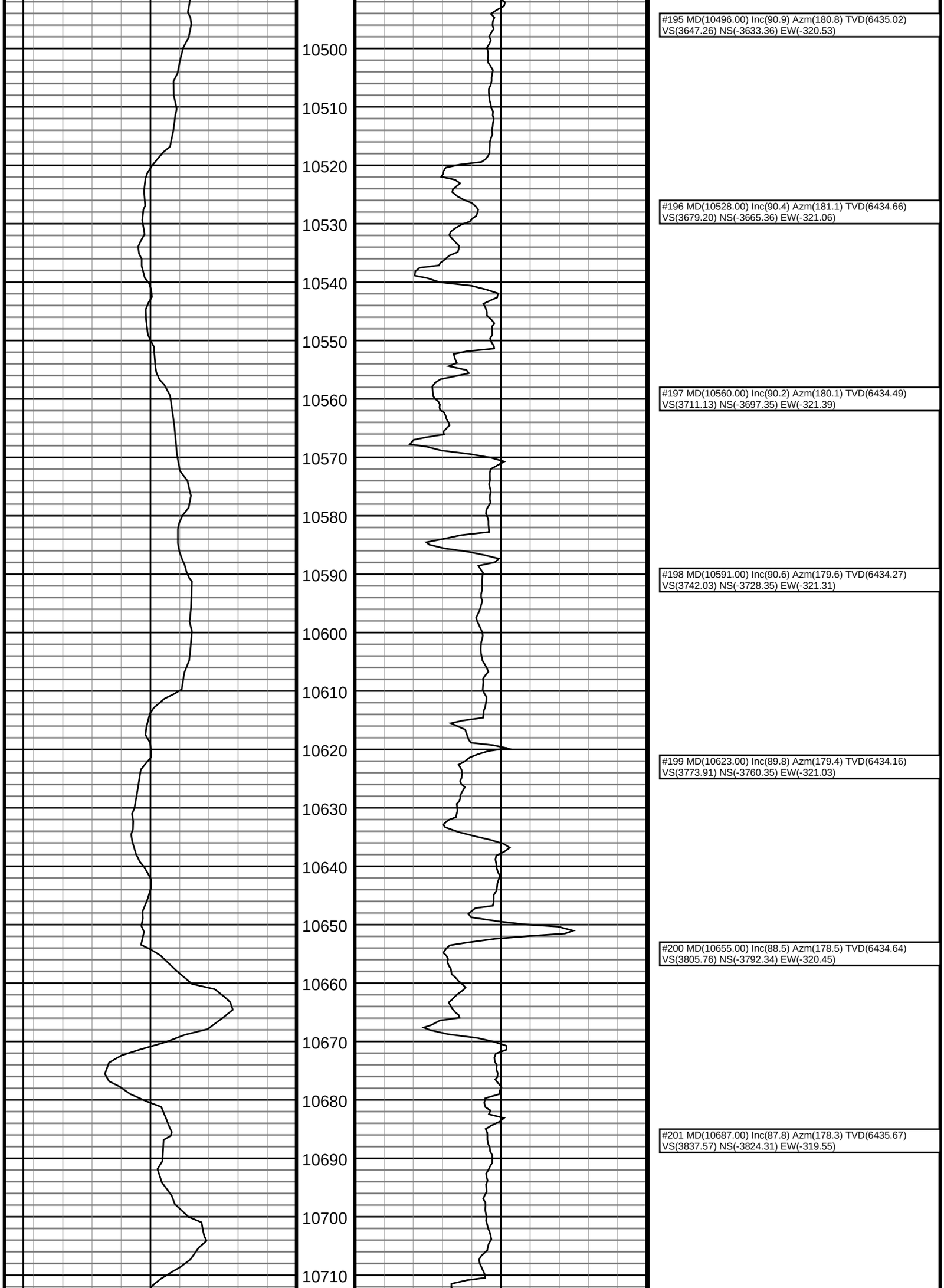

9470
9480
9490
9500
9510
9520
9530
9540
9550
9560
9570
9580
9590
9600
9610
9620
9630
9640
9650
9660
9670
#163 MD(9481.00) Inc(89.7) Azm(181.8) TVD(6434.70)
VS(2633.64) NS(-2618.93) EW(-291.79)
#164 MD(9513.00) Inc(90.1) Azm(181.8) TVD(6434.75)
VS(2665.61) NS(-2650.91) EW(-292.79)
#165 MD(9544.00) Inc(90.4) Azm(182.0) TVD(6434.62)
VS(2696.58) NS(-2681.90) EW(-293.82)
#166 MD(9576.00) Inc(90.1) Azm(181.7) TVD(6434.48)
VS(2728.55) NS(-2713.88) EW(-294.86)
#167 MD(9608.00) Inc(89.1) Azm(181.5) TVD(6434.70)
VS(2760.51) NS(-2745.87) EW(-295.75)
#168 MD(9640.00) Inc(88.2) Azm(181.0) TVD(6435.46)
VS(2792.45) NS(-2777.85) EW(-296.45)
#169 MD(9671.00) Inc(88.3) Azm(181.1) TVD(6436.40)
VS(2823.38) NS(-2808.83) EW(-297.01)

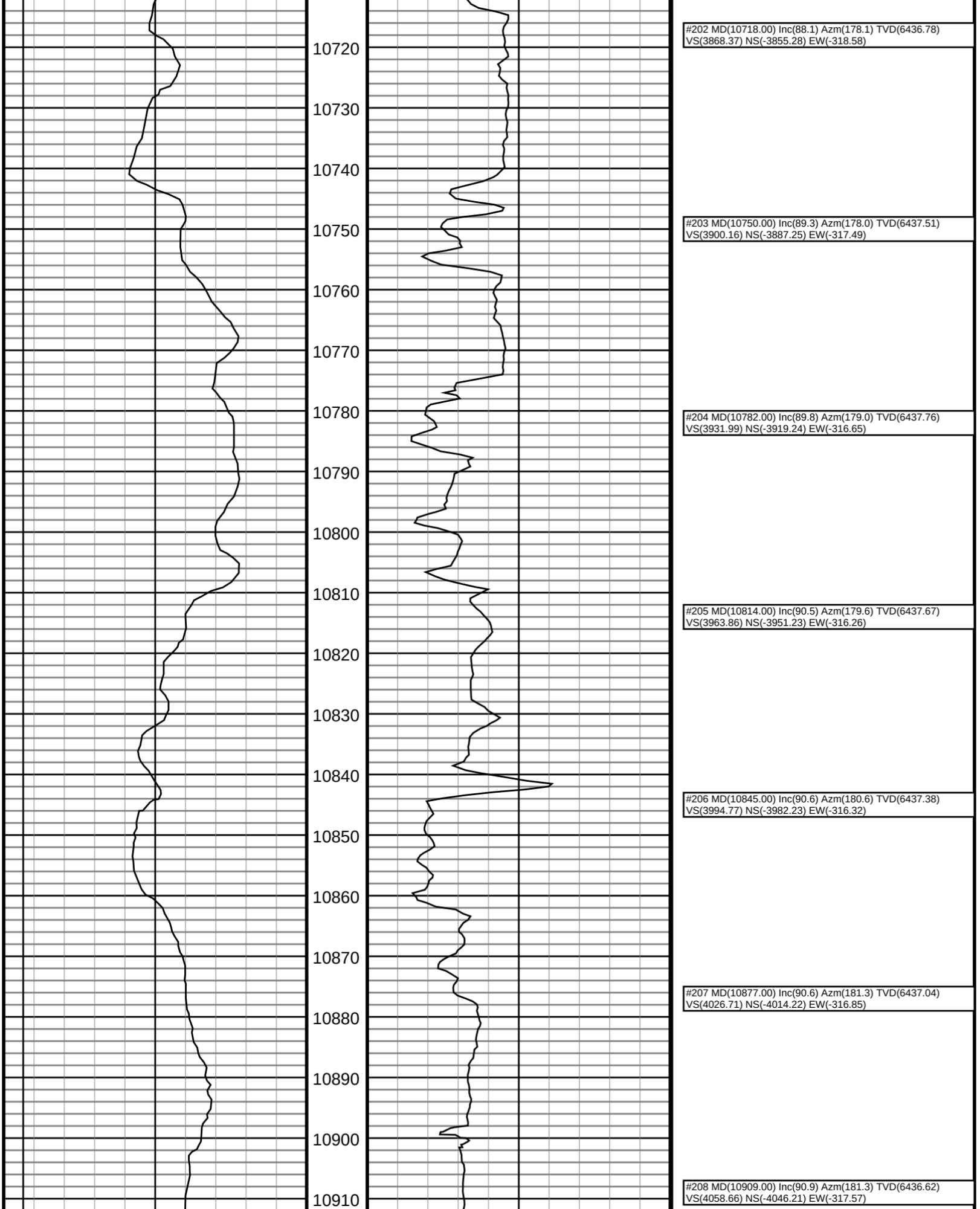

9680
9690
9700
9710
9720
9730
9740
9750
9760
9770
9780
9790
9800
9810
9820
9830
9840
9850
9860
9870
9880
#170 MD(9703.00) Inc(88.4) Azm(181.1) TVD(6437.32)
VS(2855.31) NS(-2840.81) EW(-297.63)
#171 MD(9735.00) Inc(88.6) Azm(181.0) TVD(6438.16)
VS(2887.25) NS(-2872.79) EW(-298.22)
#172 MD(9766.00) Inc(89.0) Azm(181.7) TVD(6438.81)
VS(2918.19) NS(-2903.78) EW(-298.95)
#173 MD(9798.00) Inc(89.3) Azm(181.7) TVD(6439.29)
VS(2950.15) NS(-2935.76) EW(-299.89)
#174 MD(9830.00) Inc(89.7) Azm(181.5) TVD(6439.57)
VS(2982.11) NS(-2967.75) EW(-300.79)
#175 MD(9861.00) Inc(90.7) Azm(181.8) TVD(6439.46)
VS(3013.08) NS(-2998.73) EW(-301.68)

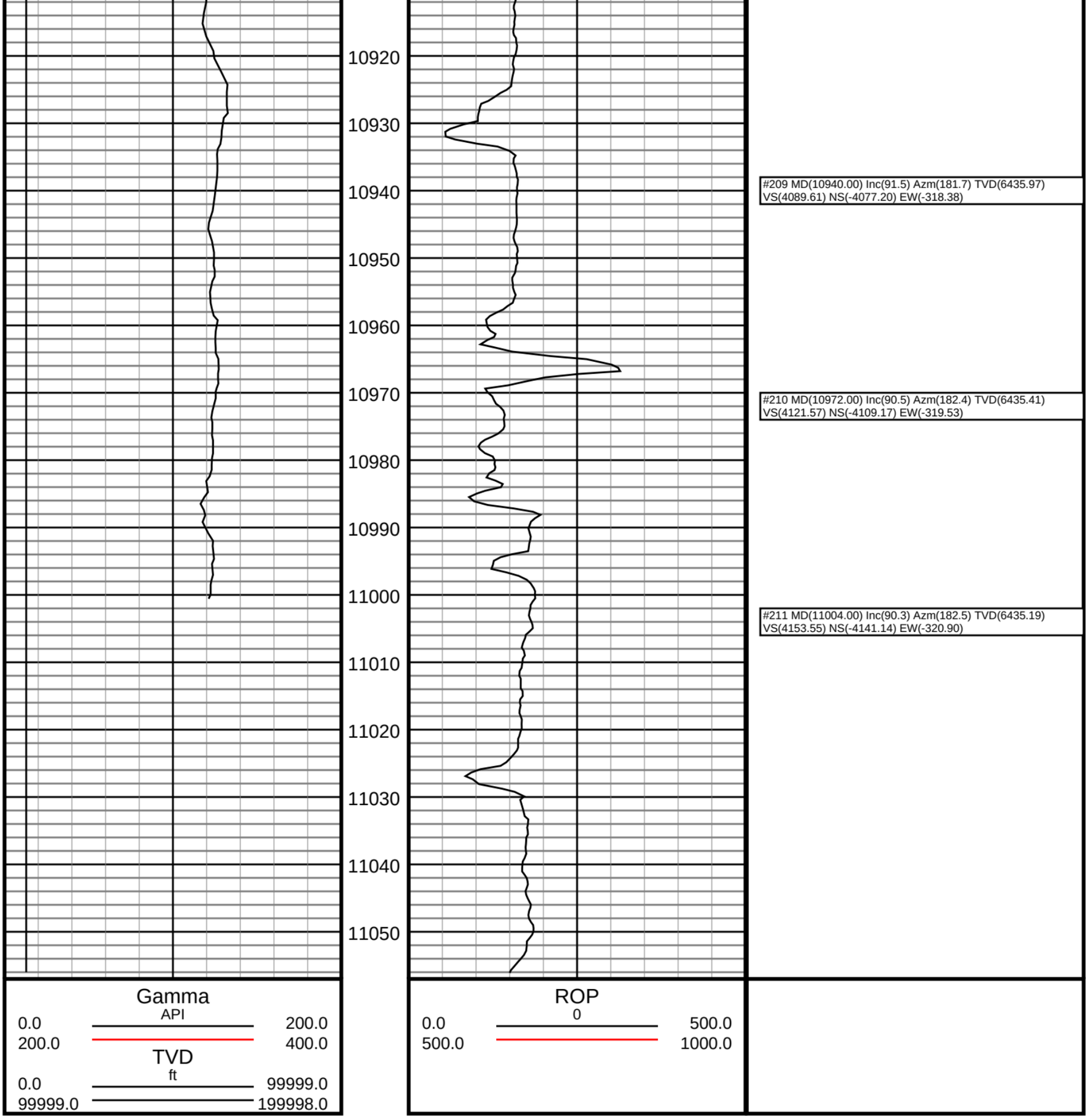

9890
9900
9910
9920
9930
9940
9950
9960
9970
9980
9990
10000
10010
10020
10030
10040
10050
10060
10070
#176 MD(9893.00) Inc(90.7) Azm(181.8) TVD(6439.07)
VS(3045.04) NS(-3030.71) EW(-302.69)
#177 MD(9925.00) Inc(90.1) Azm(182.0) TVD(6438.84)
VS(3077.01) NS(-3062.70) EW(-303.75)
#178 MD(9957.00) Inc(89.5) Azm(181.7) TVD(6438.95)
VS(3108.97) NS(-3094.68) EW(-304.78)
#179 MD(9988.00) Inc(90.0) Azm(181.5) TVD(6439.09)
VS(3139.94) NS(-3125.67) EW(-305.65)
#180 MD(10020.00) Inc(91.0) Azm(182.2) TVD(6438.81)
VS(3171.90) NS(-3157.65) EW(-306.68)
#181 MD(10052.00) Inc(91.4) Azm(182.0) TVD(6438.14)
VS(3203.87) NS(-3189.62) EW(-307.85)


10080
10090
10100
10110
10120
10130
10140
10150
10160
10170
10180
10190
10200
10210
10220
10230
10240
10250
10260
10270
10280
10290
#182 MD(10084.00) Inc(90.7) Azm(182.4) TVD(6437.55)
VS(3235.84) NS(-3221.59) EW(-309.08)
#183 MD(10116.00) Inc(90.7) Azm(182.7) TVD(6437.16)
VS(3267.82) NS(-3253.56) EW(-310.50)
#184 MD(10147.00) Inc(89.6) Azm(182.2) TVD(6437.08)
VS(3298.80) NS(-3284.53) EW(-311.83)
#185 MD(10179.00) Inc(89.9) Azm(182.2) TVD(6437.22)
VS(3330.78) NS(-3316.50) EW(-313.06)
#186 MD(10211.00) Inc(90.9) Azm(182.7) TVD(6437.00)
VS(3362.76) NS(-3348.47) EW(-314.42)
#187 MD(10243.00) Inc(91.5) Azm(182.7) TVD(6436.33)
VS(3394.73) NS(-3380.43) EW(-315.93)
#188 MD(10274.00) Inc(90.9) Azm(182.0) TVD(6435.68)
VS(3425.71) NS(-3411.40) EW(-317.20)


10300
10310
10320
10330
10340
10350
10360
10370
10380
10390
10400
10410
10420
10430
10440
10450
10460
10470
10480
10490
#189 MD(10306.00) Inc(90.1) Azm(180.8) TVD(6435.40)
VS(3457.66) NS(-3443.38) EW(-317.98)
#190 MD(10338.00) Inc(90.3) Azm(180.6) TVD(6435.29)
VS(3489.59) NS(-3475.38) EW(-318.37)
#191 MD(10369.00) Inc(89.6) Azm(180.6) TVD(6435.31)
VS(3520.52) NS(-3506.38) EW(-318.70)
#192 MD(10401.00) Inc(89.6) Azm(180.6) TVD(6435.54)
VS(3552.45) NS(-3538.38) EW(-319.03)
#193 MD(10433.00) Inc(90.0) Azm(181.0) TVD(6435.65)
VS(3584.38) NS(-3570.37) EW(-319.48)
#194 MD(10465.00) Inc(90.7) Azm(181.0) TVD(6435.45)
VS(3616.33) NS(-3602.37) EW(-320.04)


10500
10510
10520
10530
10540
10550
10560
10570
10580
10590
10600
10610
10620
10630
10640
10650
10660
10670
10680
10690
10700
10710
#195 MD(10496.00) Inc(90.9) Azm(180.8) TVD(6435.02)
VS(3647.26) NS(-3633.36) EW(-320.53)
#196 MD(10528.00) Inc(90.4) Azm(181.1) TVD(6434.66)
VS(3679.20) NS(-3665.36) EW(-321.06)
#197 MD(10560.00) Inc(90.2) Azm(180.1) TVD(6434.49)
VS(3711.13) NS(-3697.35) EW(-321.39)
#198 MD(10591.00) Inc(90.6) Azm(179.6) TVD(6434.27)
VS(3742.03) NS(-3728.35) EW(-321.31)
#199 MD(10623.00) Inc(89.8) Azm(179.4) TVD(6434.16)
VS(3773.91) NS(-3760.35) EW(-321.03)
#200 MD(10655.00) Inc(88.5) Azm(178.5) TVD(6434.64)
VS(3805.76) NS(-3792.34) EW(-320.45)
#201 MD(10687.00) Inc(87.8) Azm(178.3) TVD(6435.67)
VS(3837.57) NS(-3824.31) EW(-319.55)


10720
10730
10740
10750
10760
10770
10780
10790
10800
10810
10820
10830
10840
10850
10860
10870
10880
10890
10900
10910
#202 MD(10718.00) Inc(88.1) Azm(178.1) TVD(6436.78) VS(3868.37) NS(-3855.28) EW(-318.58)
#203 MD(10750.00) Inc(89.3) Azm(178.0) TVD(6437.51) VS(3900.16) NS(-3887.25) EW(-317.49)
#204 MD(10782.00) Inc(89.8) Azm(179.0) TVD(6437.76) VS(3931.99) NS(-3919.24) EW(-316.65)
#205 MD(10814.00) Inc(90.5) Azm(179.6) TVD(6437.67) VS(3963.86) NS(-3951.23) EW(-316.26)
#206 MD(10845.00) Inc(90.6) Azm(180.6) TVD(6437.38) VS(3994.77) NS(-3982.23) EW(-316.32)
#207 MD(10877.00) Inc(90.6) Azm(181.3) TVD(6437.04) VS(4026.71) NS(-4014.22) EW(-316.85)
#208 MD(10909.00) Inc(90.9) Azm(181.3) TVD(6436.62) VS(4058.66) NS(-4046.21) EW(-317.57)


10920
10930
10940
10950
10960
10970
10980
10990
11000
11010
11020
11030
11040
11050
#209 MD(10940.00) Inc(91.5) Azm(181.7) TVD(6435.97)
VS(4089.61) NS(-4077.20) EW(-318.38)
#210 MD(10972.00) Inc(90.5) Azm(182.4) TVD(6435.41)
VS(4121.57) NS(-4109.17) EW(-319.53)
#211 MD(11004.00) Inc(90.3) Azm(182.5) TVD(6435.19)
VS(4153.55) NS(-4141.14) EW(-320.90)
Gamma
API
0.0
200.0
200.0
400.0
TVD
ft
0.0
99999.0
99999.0
199998.0
ROP
0
0.0
500.0
500.0
1000.0