



Cathedral Energy Services
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1949 Pyrite Rd
Casper, WY 82604

140002

5":100' - MD

1/11/2014 1:38:51 PM

Oper. Company: Encana Oil & Gas

Country: Weld

State / Province: Colorado

County / Parish: US

API/UWI: 051233621000

Field: DJ Basin

Well: Liberty 2F-21H

Rig: Ensign 135

Personnel

Day Hand: John Corby

Night Hand: Kenneth Wagoner

Location

Latitude: 40.216940

Longitude: -105.009710

Elev. GL: 5023

Elev. DF: 5036

Elev. KB: 5036

Hole Data

Size	From	To
12.25	0	910
8.75	910	7525

Casing Data

Size	From	To
9.625	0	910

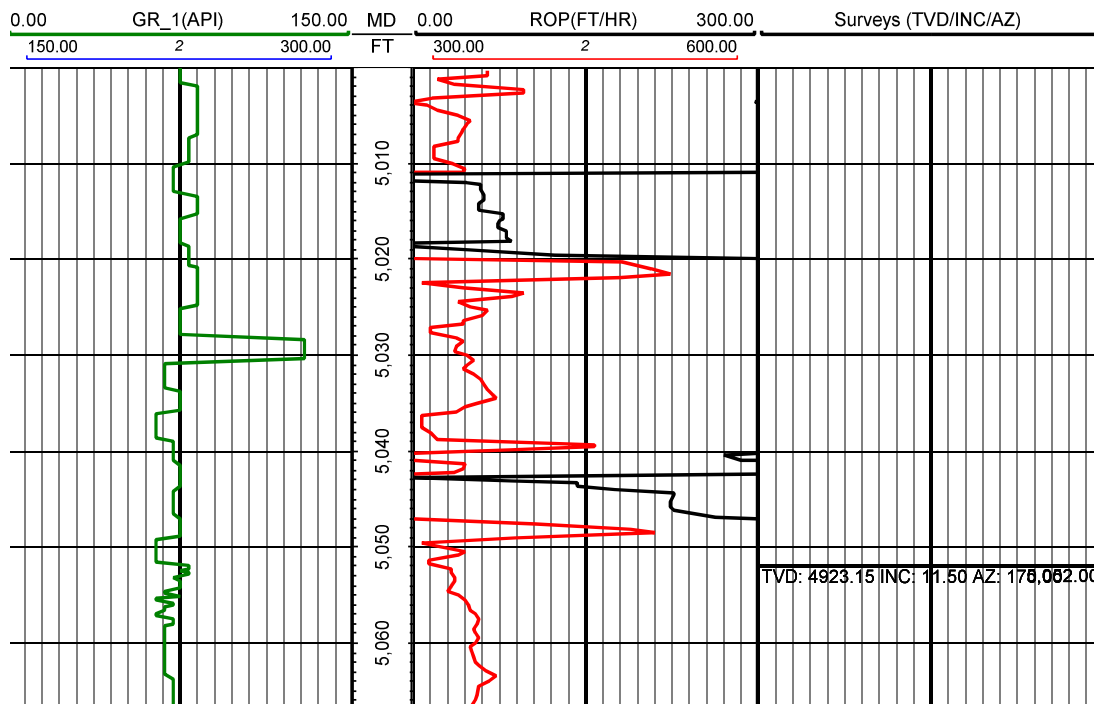
Mud Data

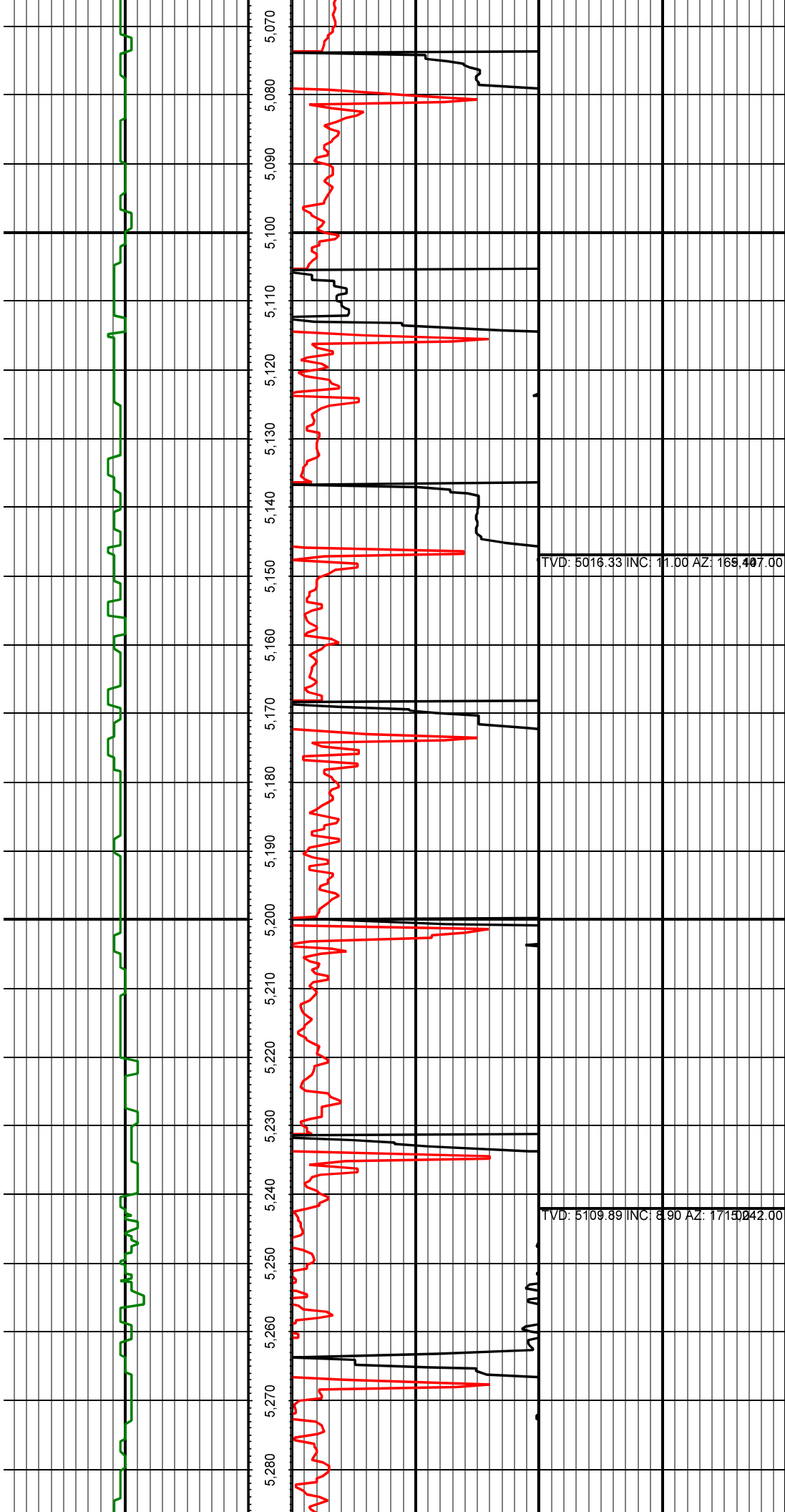
Weight	From	To
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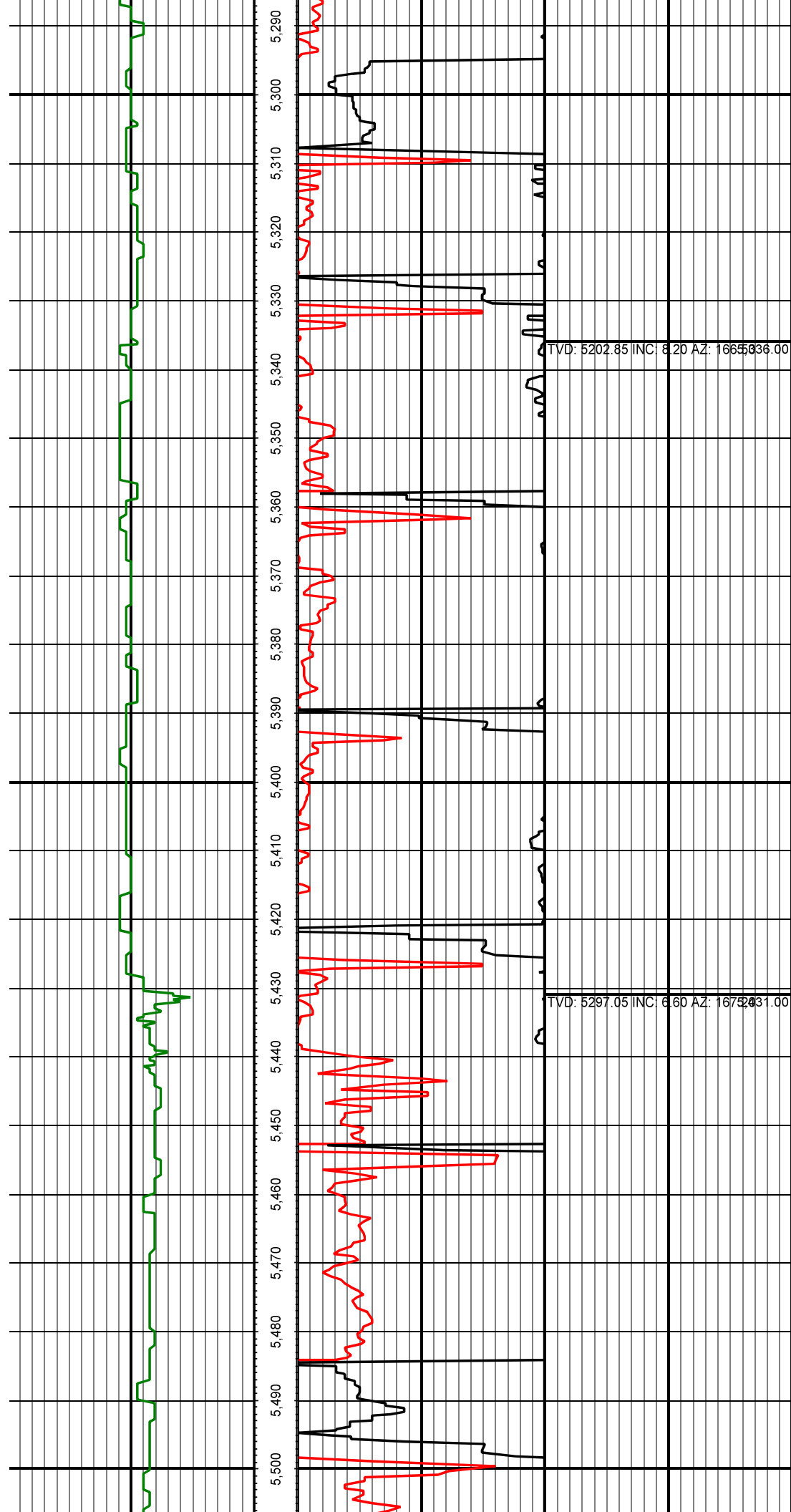
Tool Run Data

Serial Number	Gamma Offset	Resist. Offset	Start Time	Start Depth	End Time	End Depth
278	41.27	0	1/3/2014 1:28:57 PM	5000	1/7/2014 6:50:57 PM	7545

All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not except in the case of gross or willful negligence on our part, be liable or responsible for any loss, cost damages or expenses incurred or sustained by anyone resulting from an interpretation made by any of our officers, agents, or employees.



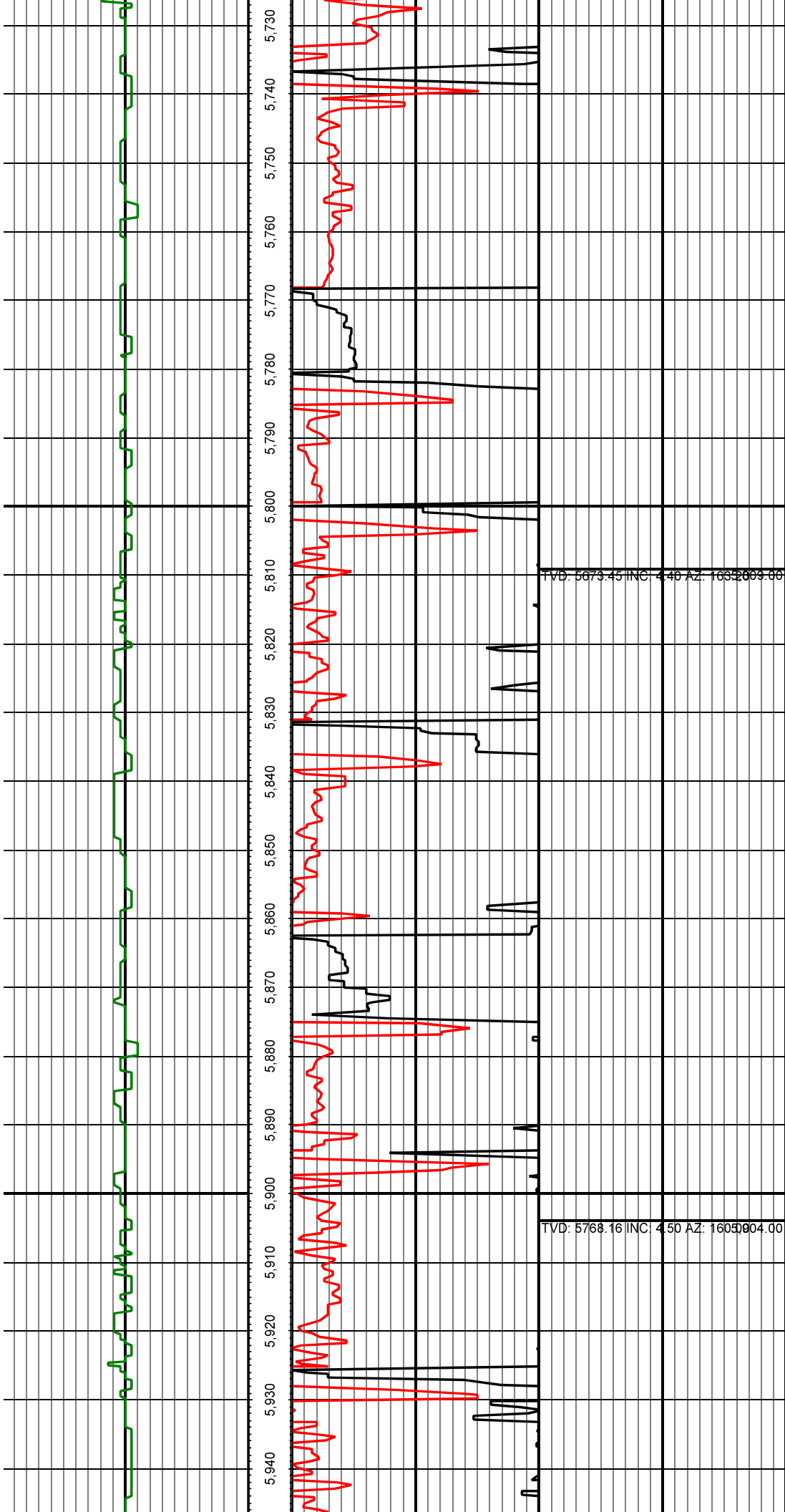


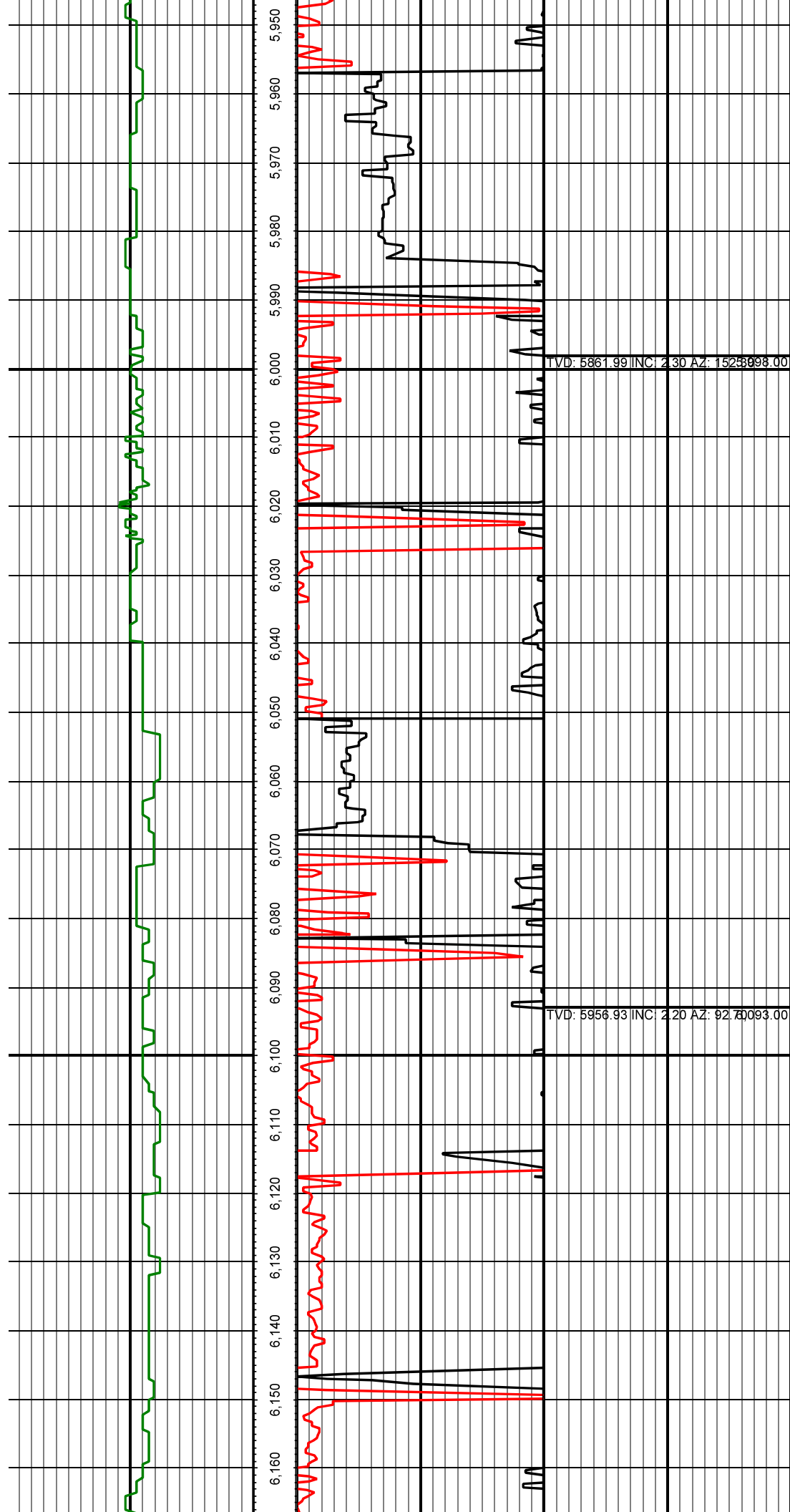


TVD: 5391.55 INC: 5.20 AZ: 163.5626.00

TVD: 5485.08 INC: 6.20 AZ: 159.1620.00

TVD: 5579.70 INC: 4.00 AZ: 160.5015.00

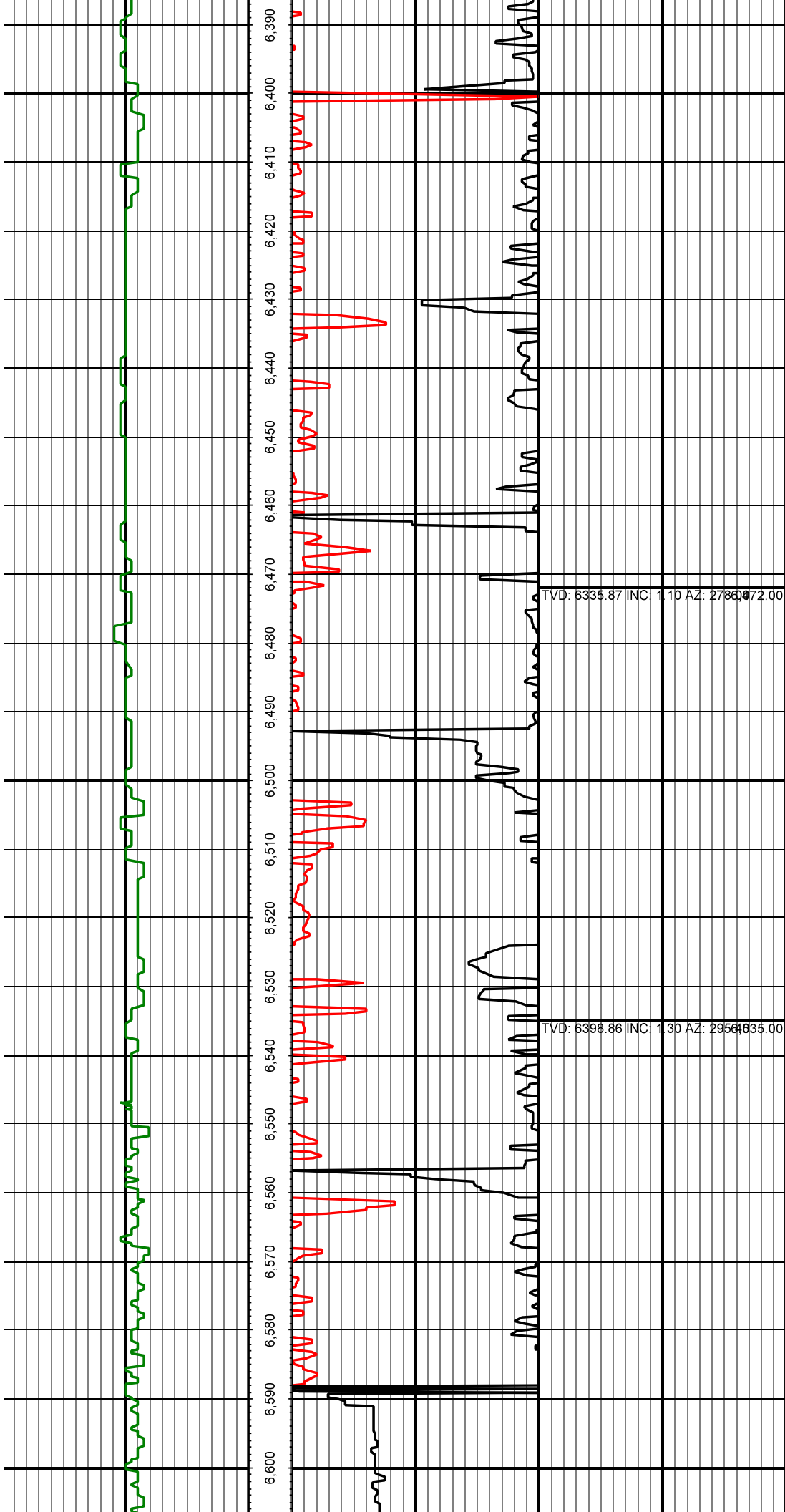




TVD: 6051.89 INC: 0.90 AZ: 78.80 188.00

TVD: 6145.88 INC: 1.00 AZ: 342.60 282.00

TVD: 6240.88 INC: 0.50 AZ: 253.60 377.00



TVD: 6492.62 INC: 6.40 AZ: 257.6029.00

TVD: 6524.33 INC: 6.10 AZ: 259.661.00

TVD: 6555.85 INC: 10.70 AZ: 266.693.00

TVD: 6586.19 INC: 13.00 AZ: 268.724.00

TVD: 6617.17 INC: 15.90 AZ: 269.866.00

TVD: 6646.85 INC: 17.70 AZ: 274.367.00

TVD: 6677.20 INC: 19.30 AZ: 276.809.00

TVD: 6706.19 INC: 22.10 AZ: 276.860.00

TVD: 6735.47 INC: 25.50 AZ: 276.882.00

TVD: 6763.87 INC: 29.30 AZ: 276.904.00

TVD: 6790.35 INC: 33.30 AZ: 276.925.00

TVD: 6816.38 INC: 37.80 AZ: 276.947.00

TVD: 6840.91 INC: 42.10 AZ: 277.009.00

TVD: 6863.19 INC: 46.00 AZ: 277.000.00

TVD: 6885.01 INC: 48.00 AZ: 269.802.00

TVD: 6905.25 INC: 50.50 AZ: 267.903.00

TVD: 6924.88 INC: 53.80 AZ: 267.365.00

TVD: 6942.28 INC: 57.90 AZ: 267.866.00

TVD: 6958.44 INC: 61.40 AZ: 267.298.00

TVD: 6972.85 INC: 63.20 AZ: 267.009.00

TVD: 6986.81 INC: 65.10 AZ: 267.661.00

