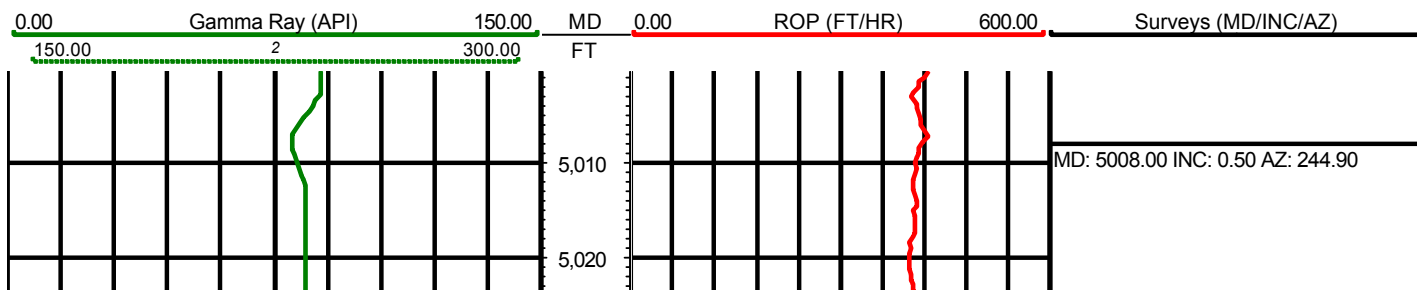


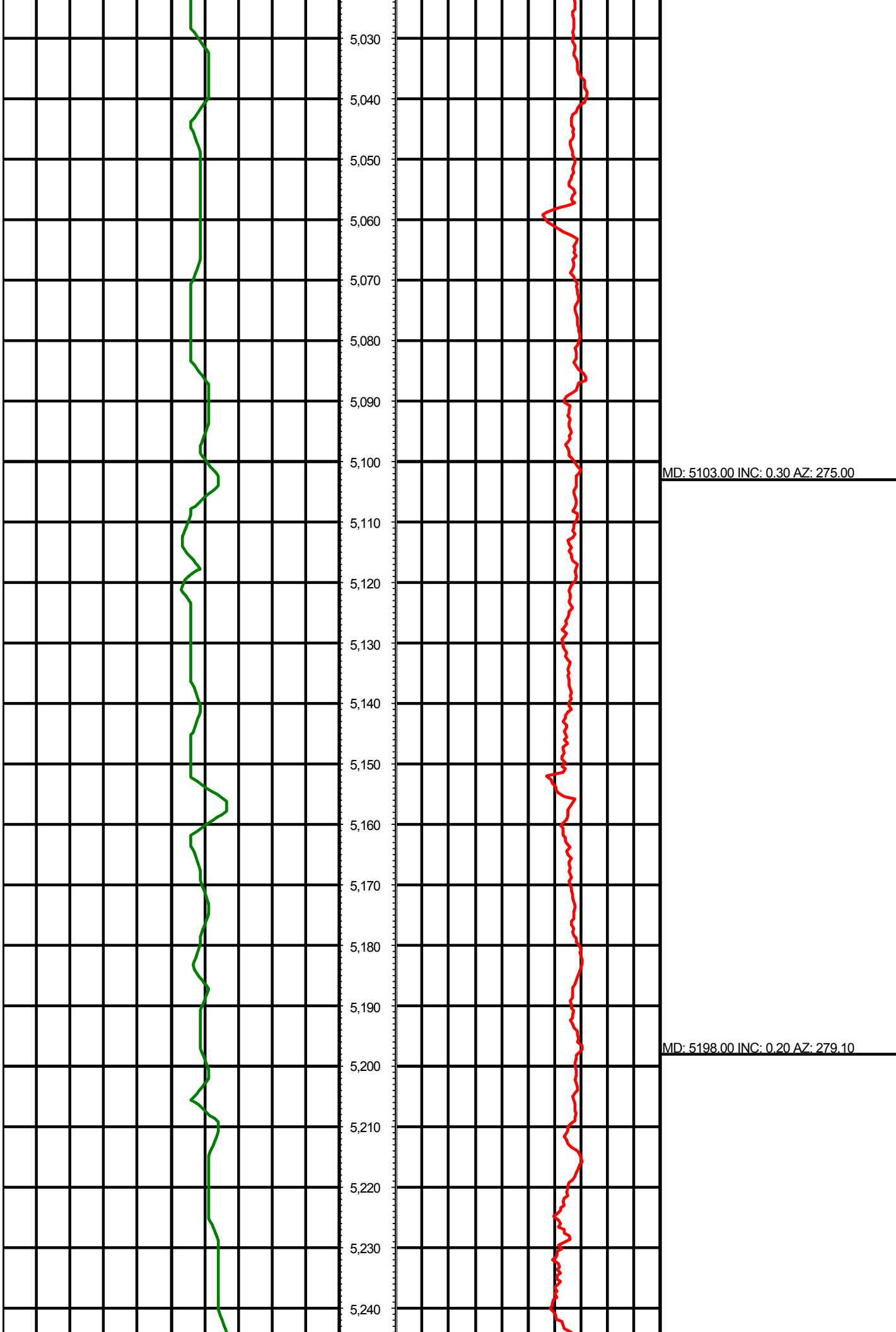
**Cathedral Energy Services**1949 North Pyrite Road  
Casper, Wyoming 82604**Edith Ann-Duckworth 4E-21H-0268****Scale 5":100' - MD**  
**7/7/2014 12:25 PM****Oper. Company:** Encana**Well:** Edith Ann-Duckworth 4E-21H-0268**Field:** DJ Basin**Rig:** Patterson 272**Well ID:** 05 123 38068 00**Job Number:** 145213**State:** Colorado**County:** Weld**Country:** US**Location:** S21-T2N-R68W**Start Date:** 04/12/2014 16:28:00**End Date:** 07/07/2014 20:00:00**Latitude:** 40.117670**Longitude:** -105.003550**Elev KB:** 4954.5**Elev DF:****Elev GL:** 4926**Notes:** Log and Survey Depths Relative to Kelly Bushing (KB) Depth**Operator 1:** Aaron Clark**Operator 2:** Erick King

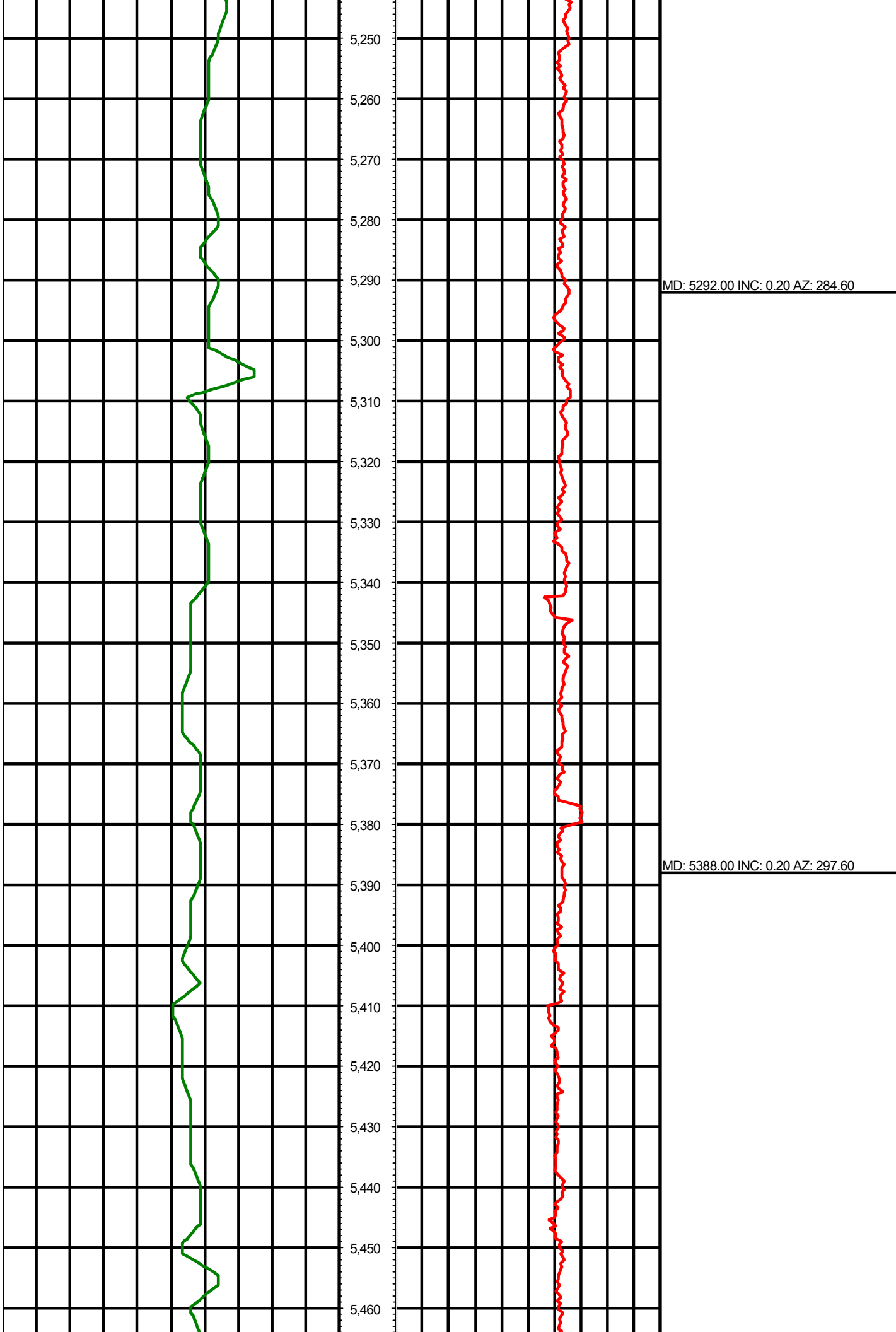
Tool Run Data	Run #1	Run #2	Run #3	Run #4	Run #5
Tool S/N	1519	1519	1218	1218	1220
Cal Factor	0	2.4	2.4	1.8	1.8
Gamma Offset	0.00	36.01	38.07	43.13	38.07
Resistivity Offset	0.00	0.00	0.00	0.00	0.00
Start Depth	0.00	953.00	7785.00	10024.00	10878.00
StartDate	4/12/2014	4/13/2014	6/27/2014	6/29/2014	7/1/2014
StartTime	10:00 PM	12:00 AM	10:30 PM	10:45 AM	2:00 AM
EndDepth	953.00	7785.00	10024.00	10878.00	15676.00
EndDate	4/12/2014	4/16/2014	6/29/2014	6/30/2014	7/5/2014
EndTime	3:30 AM	9:30 PM	9:00 AM	11:00 PM	2:30 AM
Tool Run Data	Run #6	Run #7	Run #8	Run #9	Run #10
Tool S/N	1493				
Gamma Offset	38.07				
Resistivity Offset	0.00				
Start Depth	15676.00				
StartDate	7/5/2014				
StartTime	5:00 AM				
EndDepth	17003.00				
EndDate	7/7/2014				
EndTime	8:00 PM				

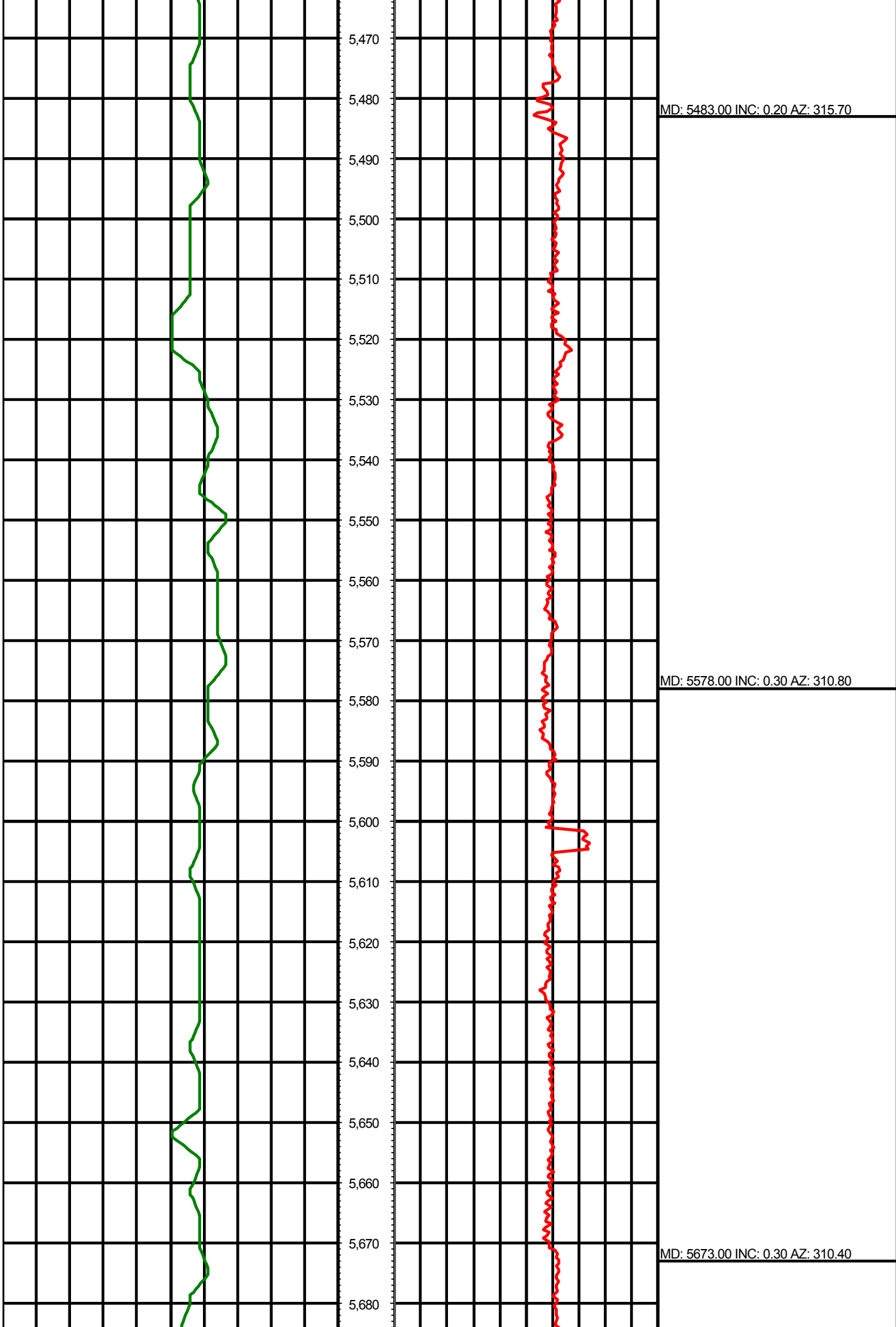
Hole Data			Casing Data		
Size	From	To	Size	From	To
12-1/4	0.00	953.00	9-5/8	0.00	943.00
8-3/4	953.00	7785.00	7	943.00	7764.00
6-1/8	7785.00	17003.00	4-1/2	7764.00	16988.00

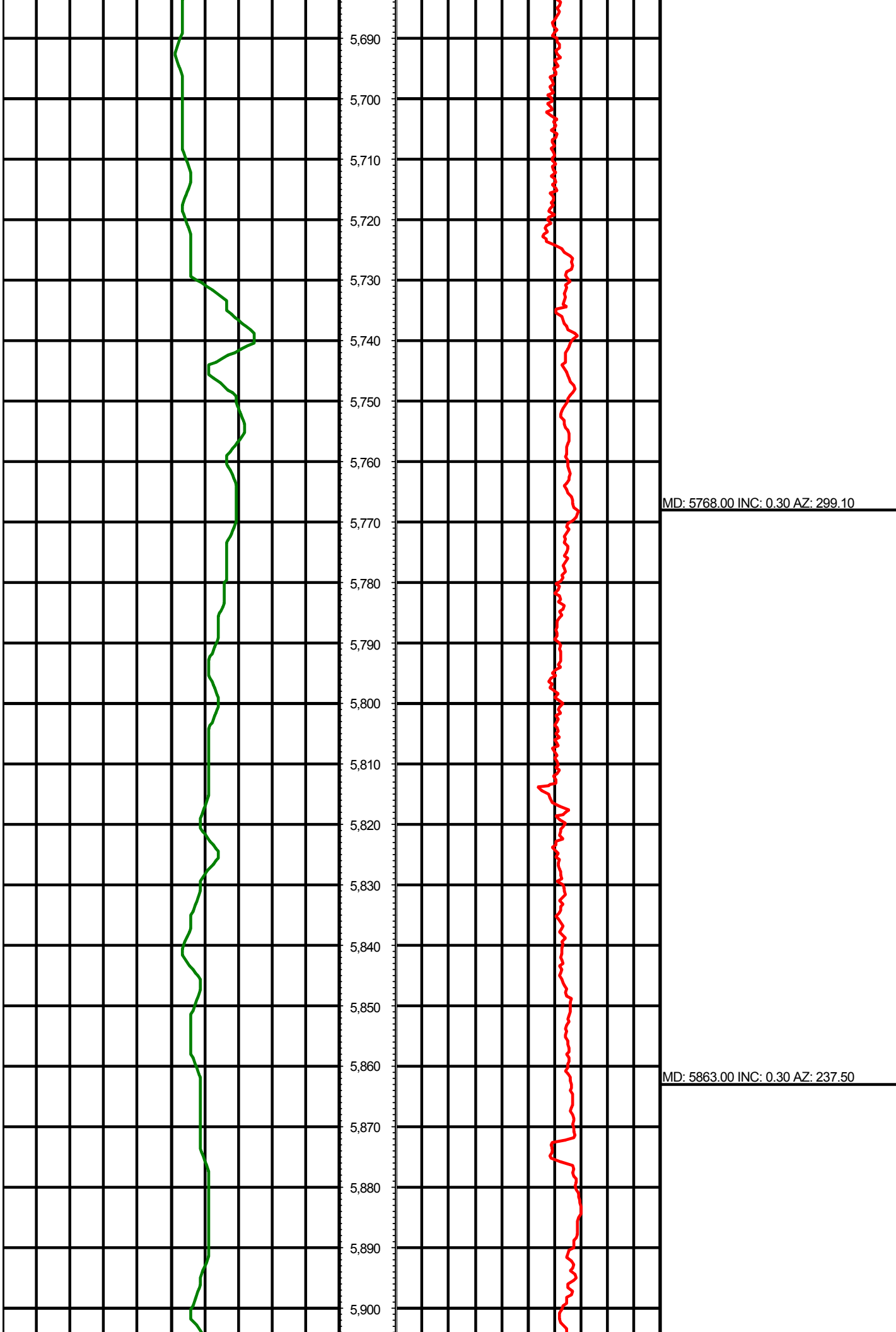
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not except in the case of gross or willful negligence on our part, be liable or responsible for any loss, cost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

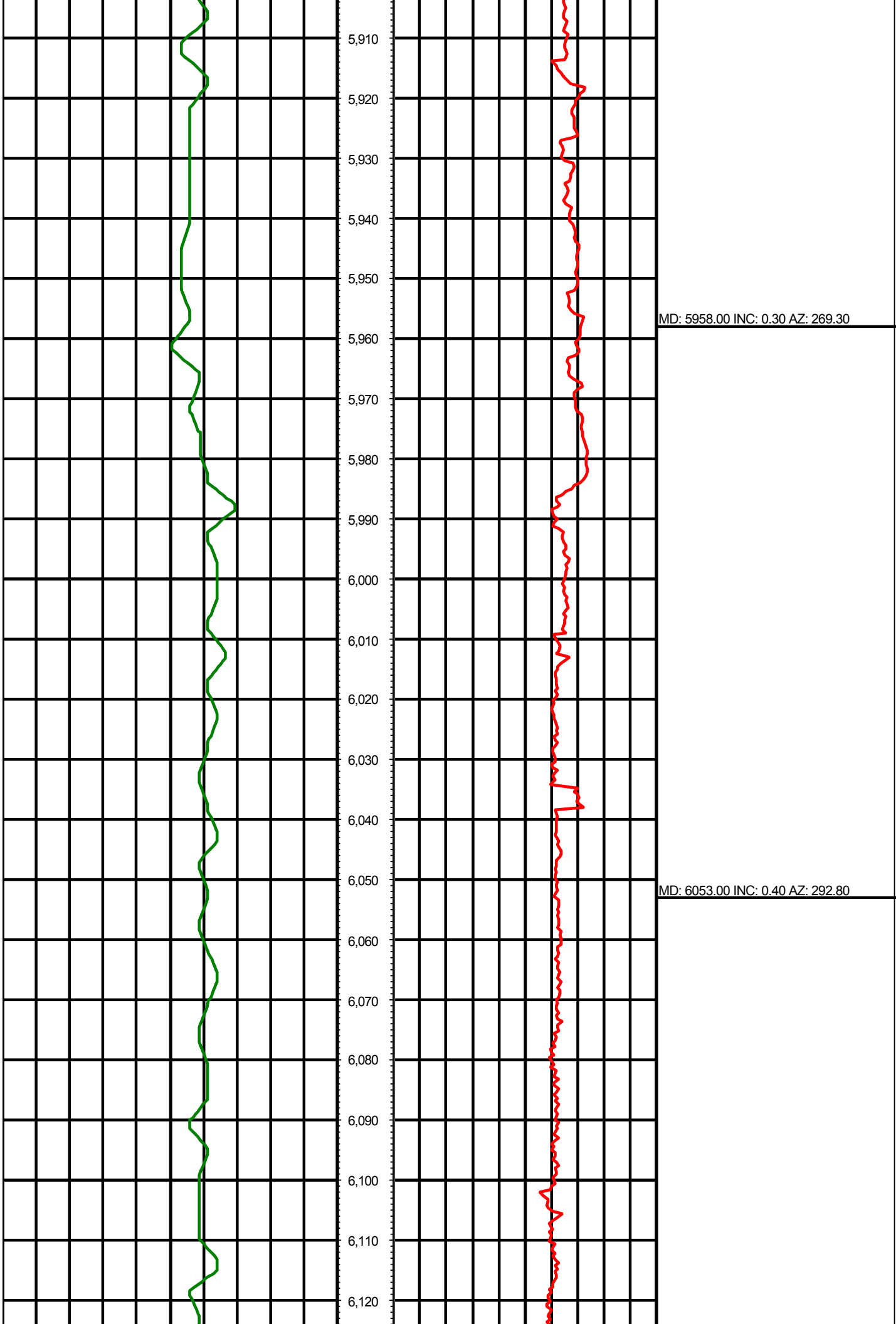


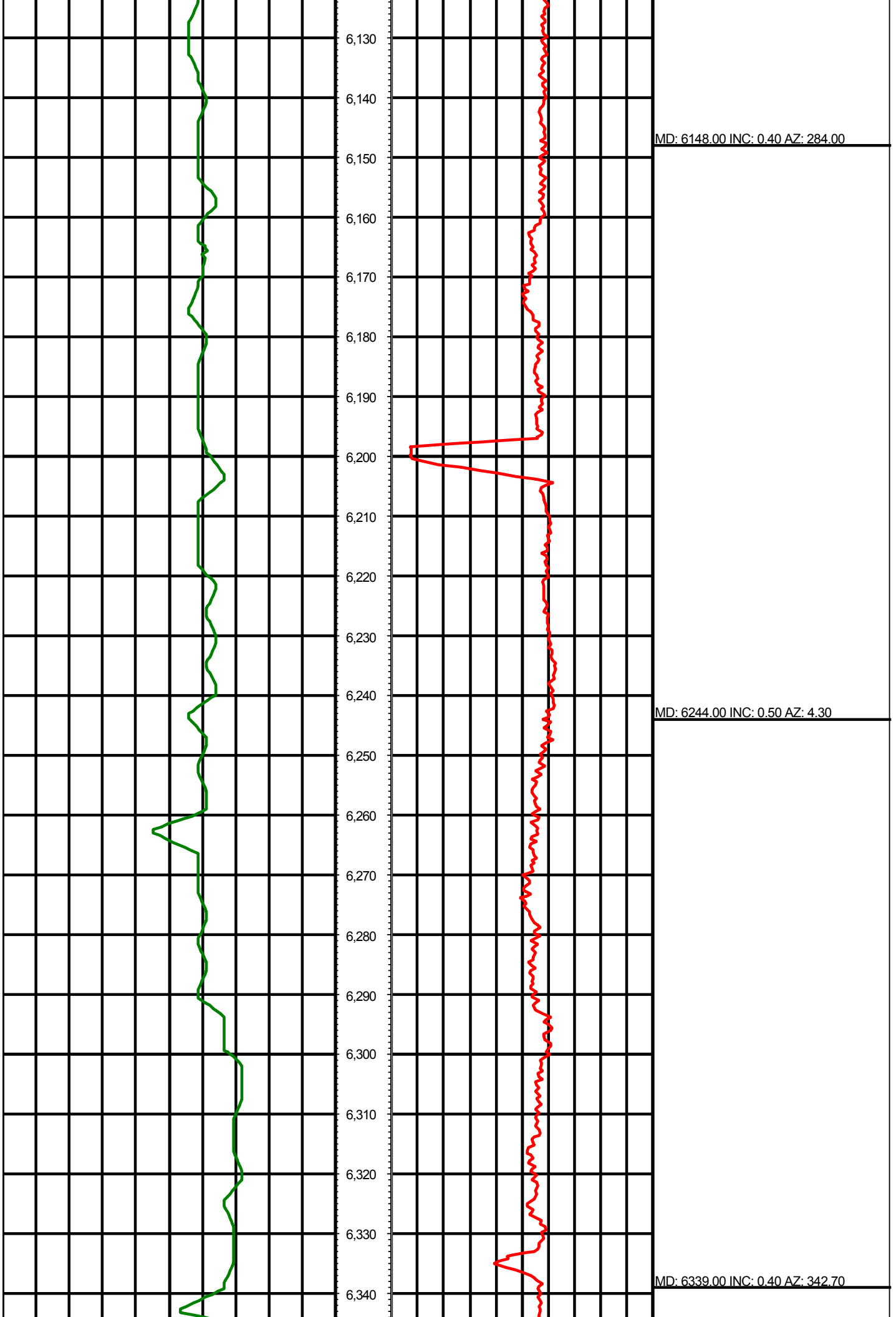


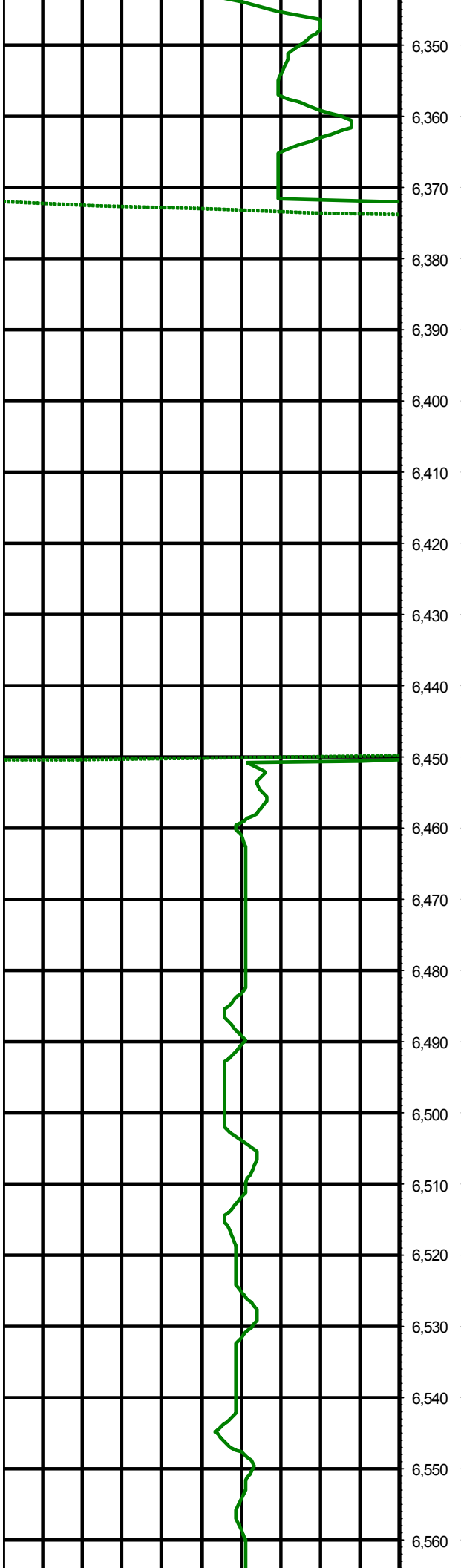




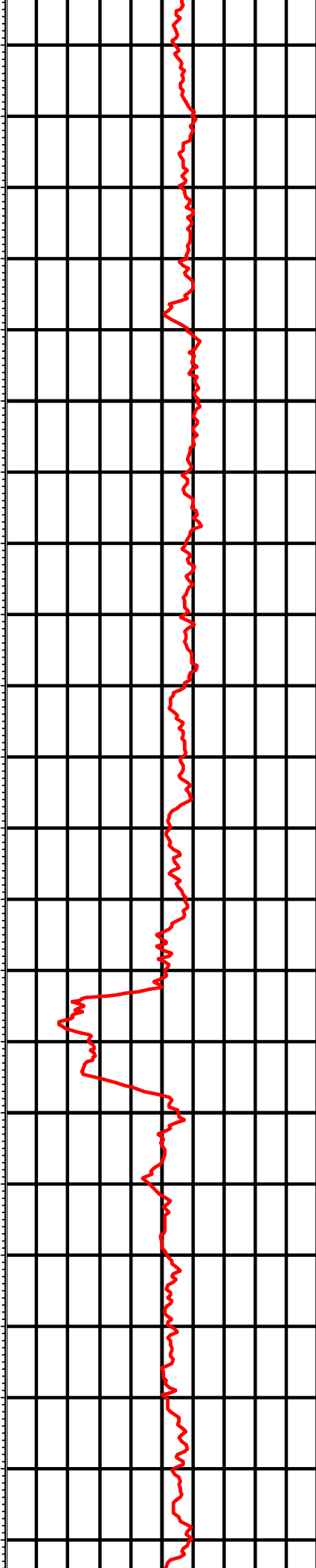








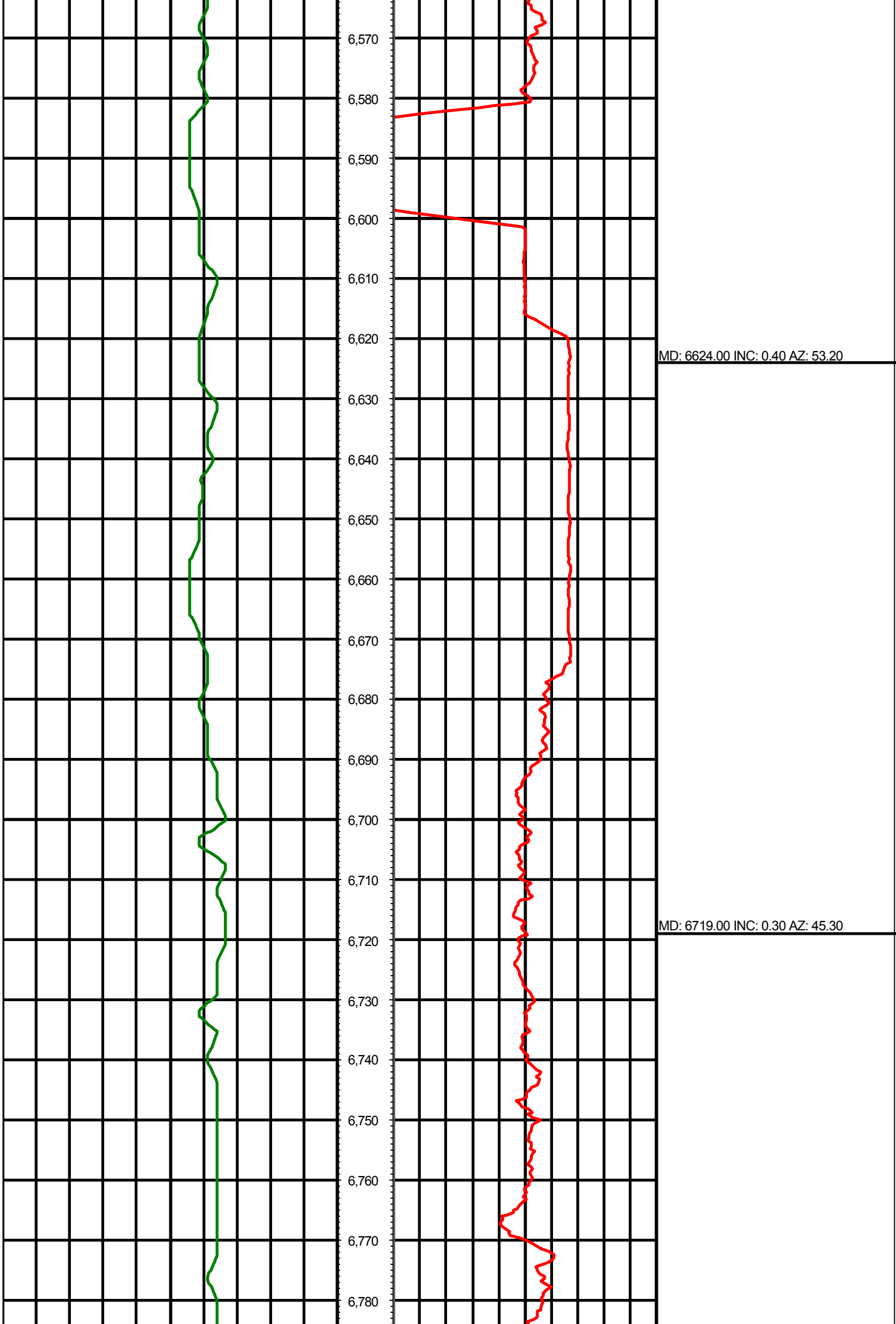
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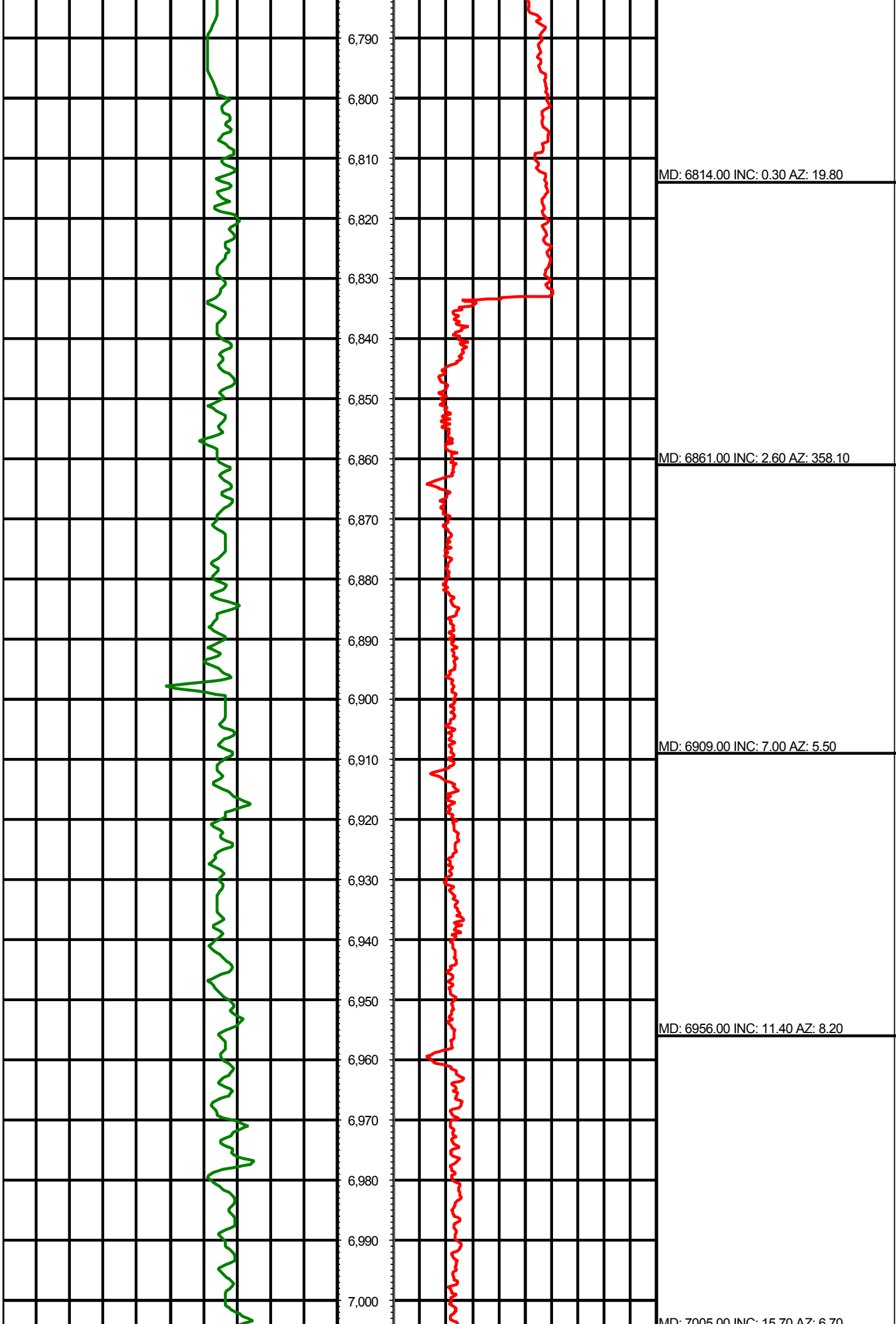


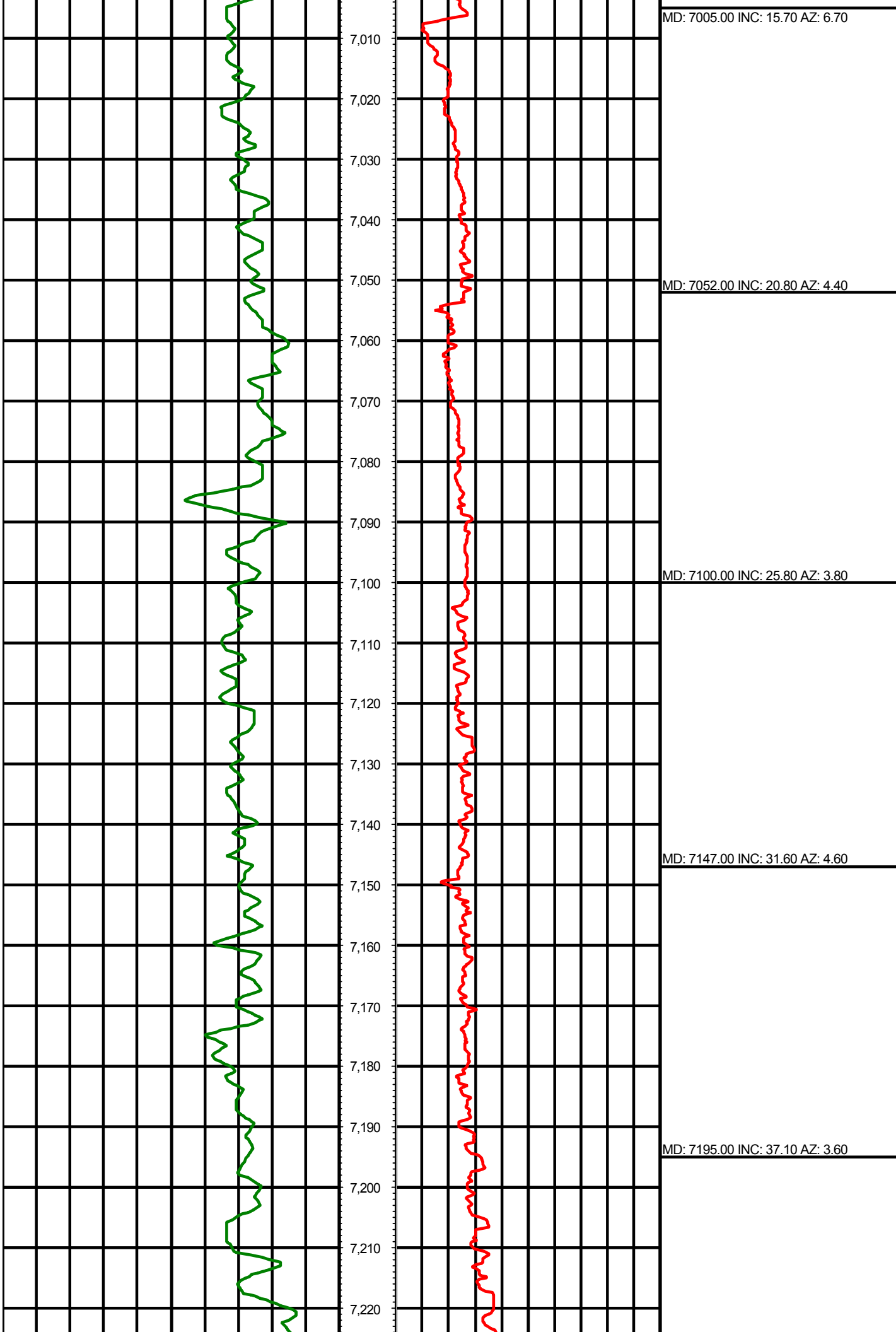
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MD: 6529.00 INC: 0.50 AZ: 78.30









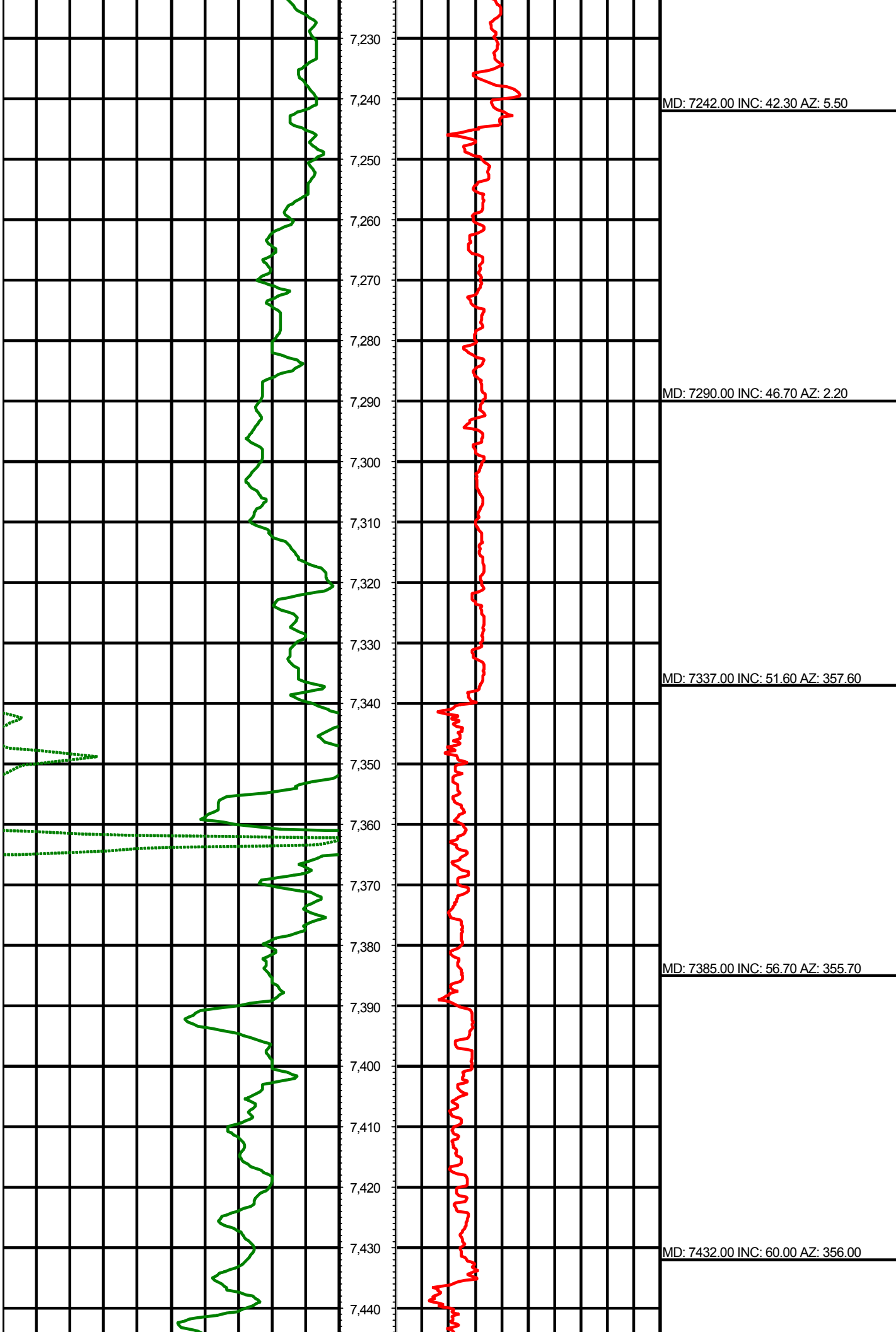
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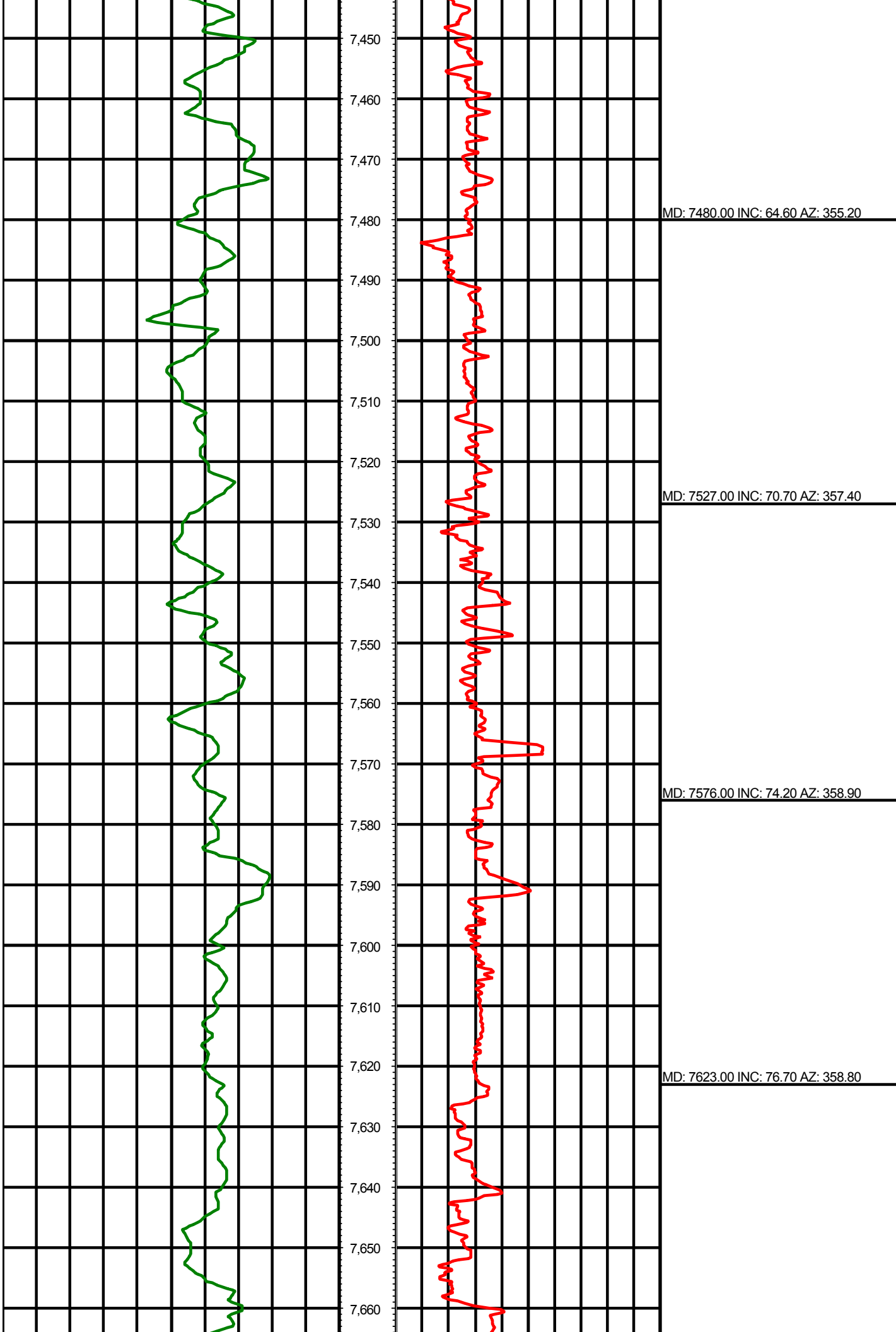
MD: 7052.00 INC: 20.80 AZ: 4.40

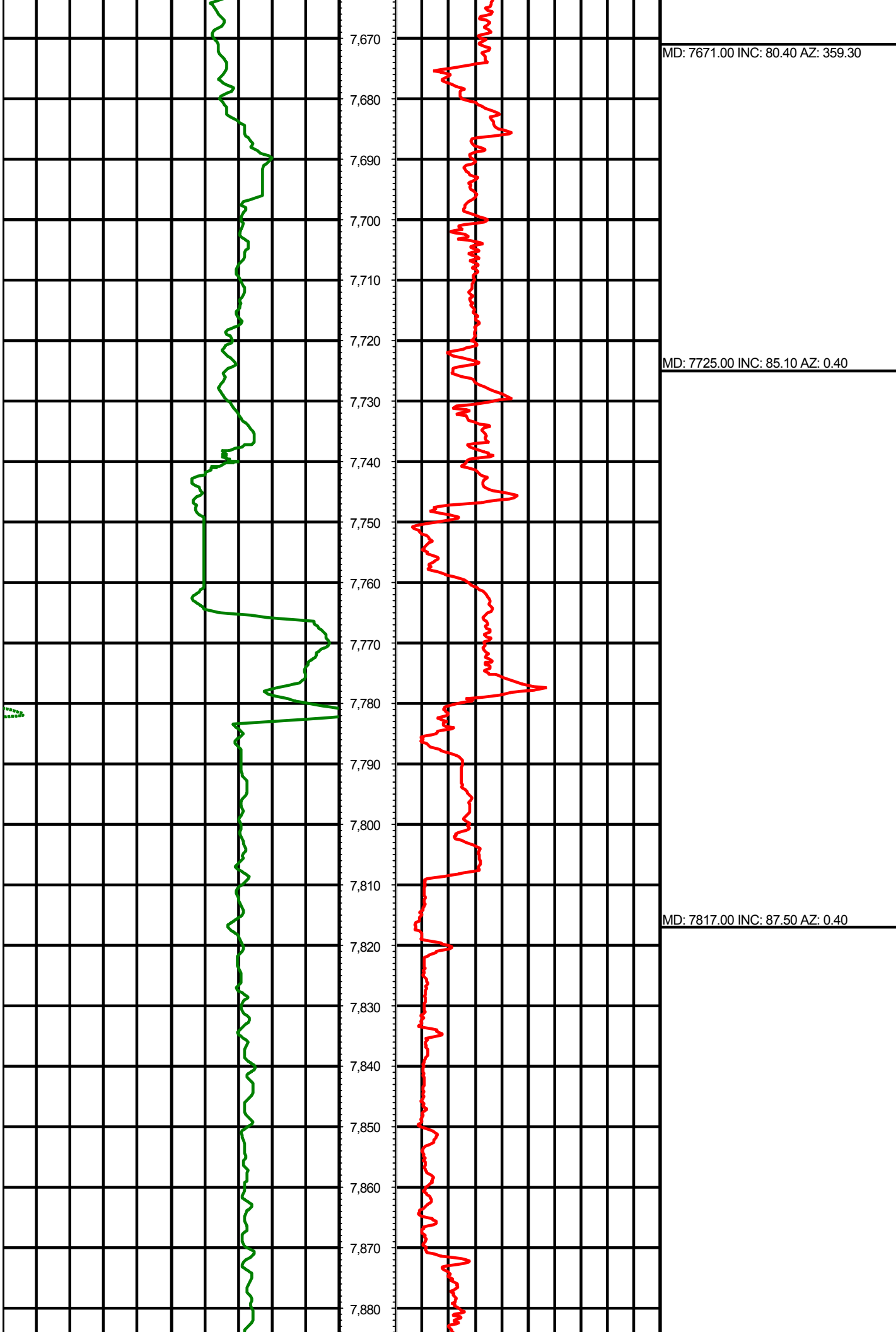
MD: 7100.00 INC: 25.80 AZ: 3.80

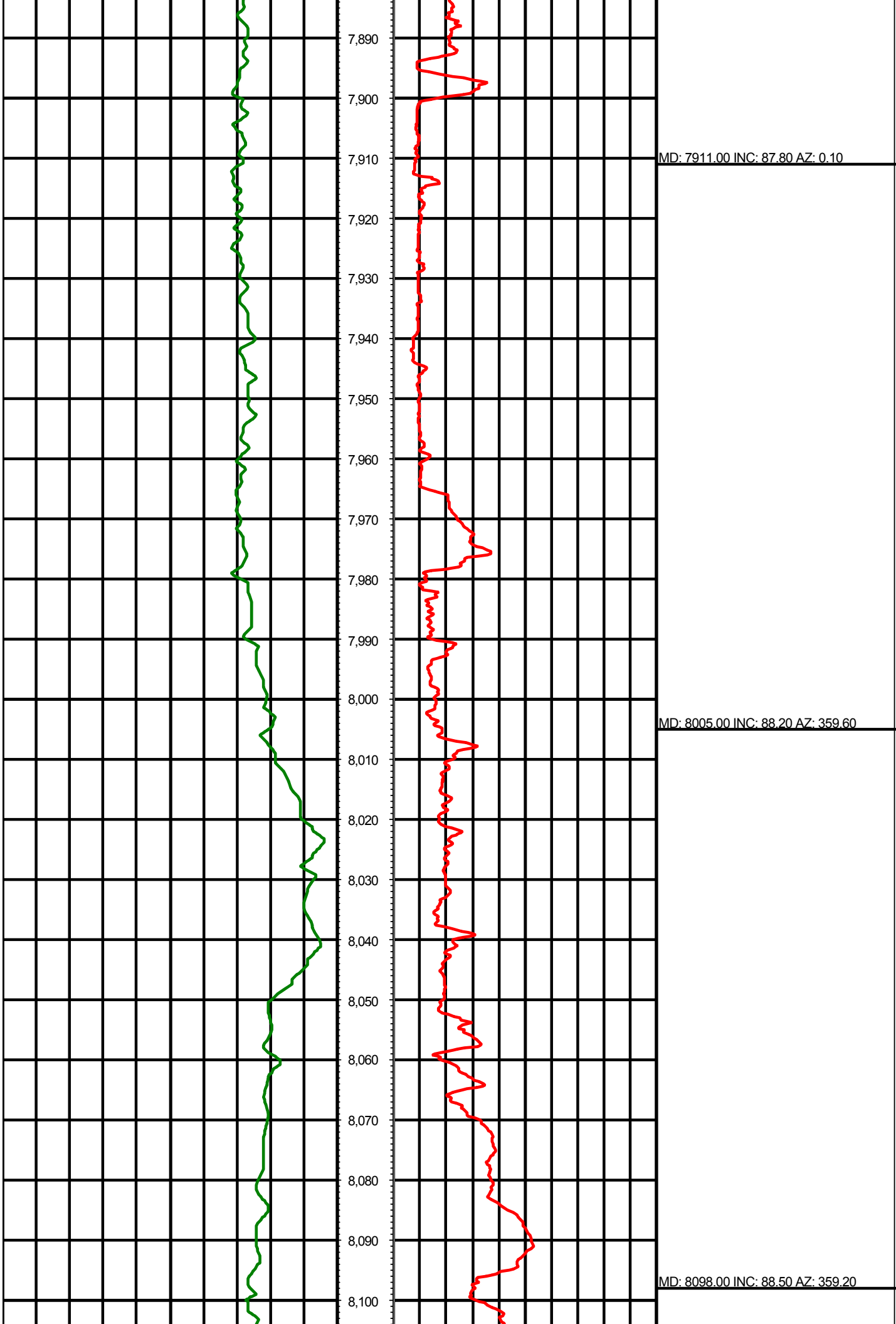
MD: 7147.00 INC: 31.60 AZ: 4.60

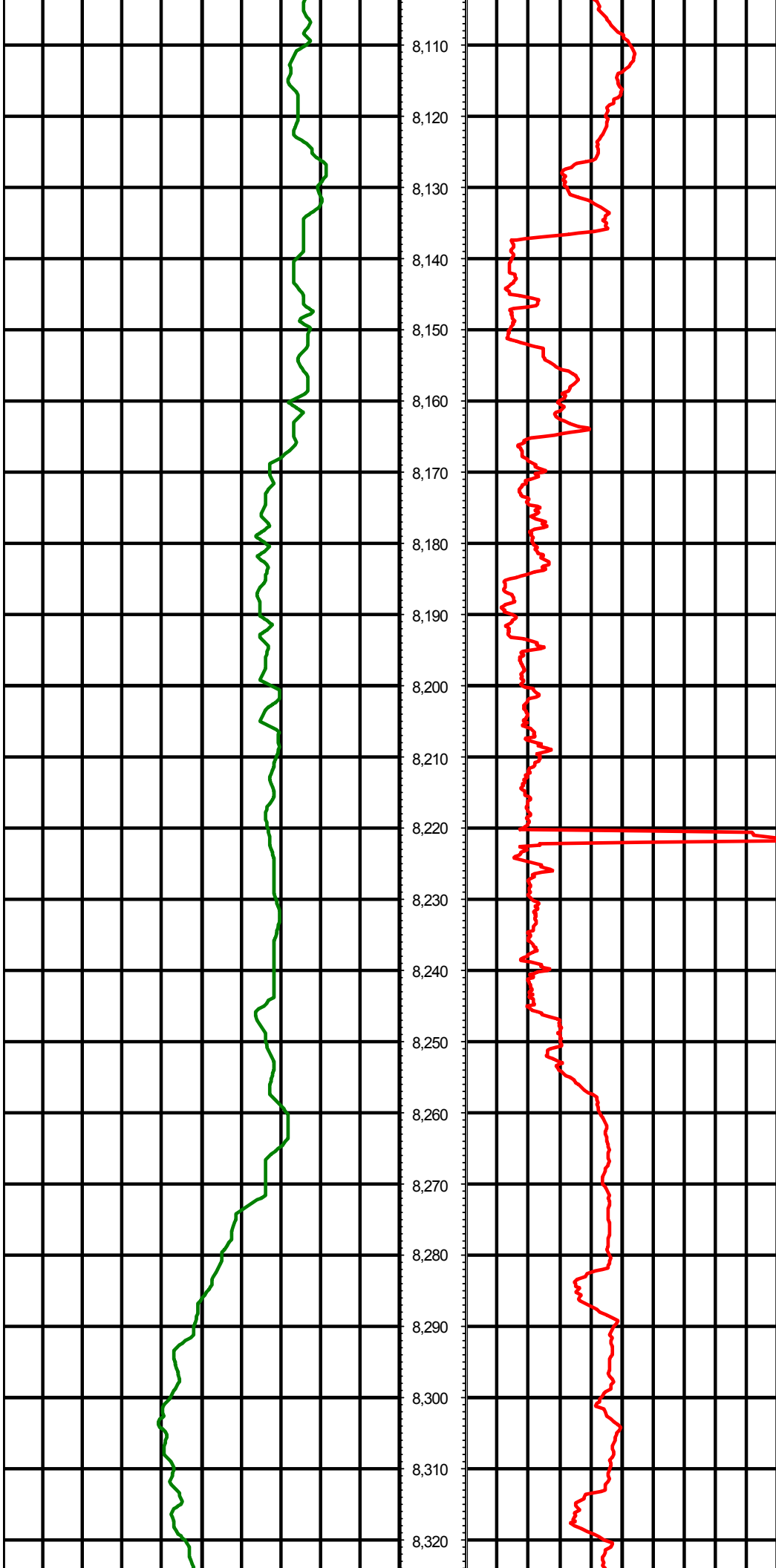
MD: 7195.00 INC: 37.10 AZ: 3.60











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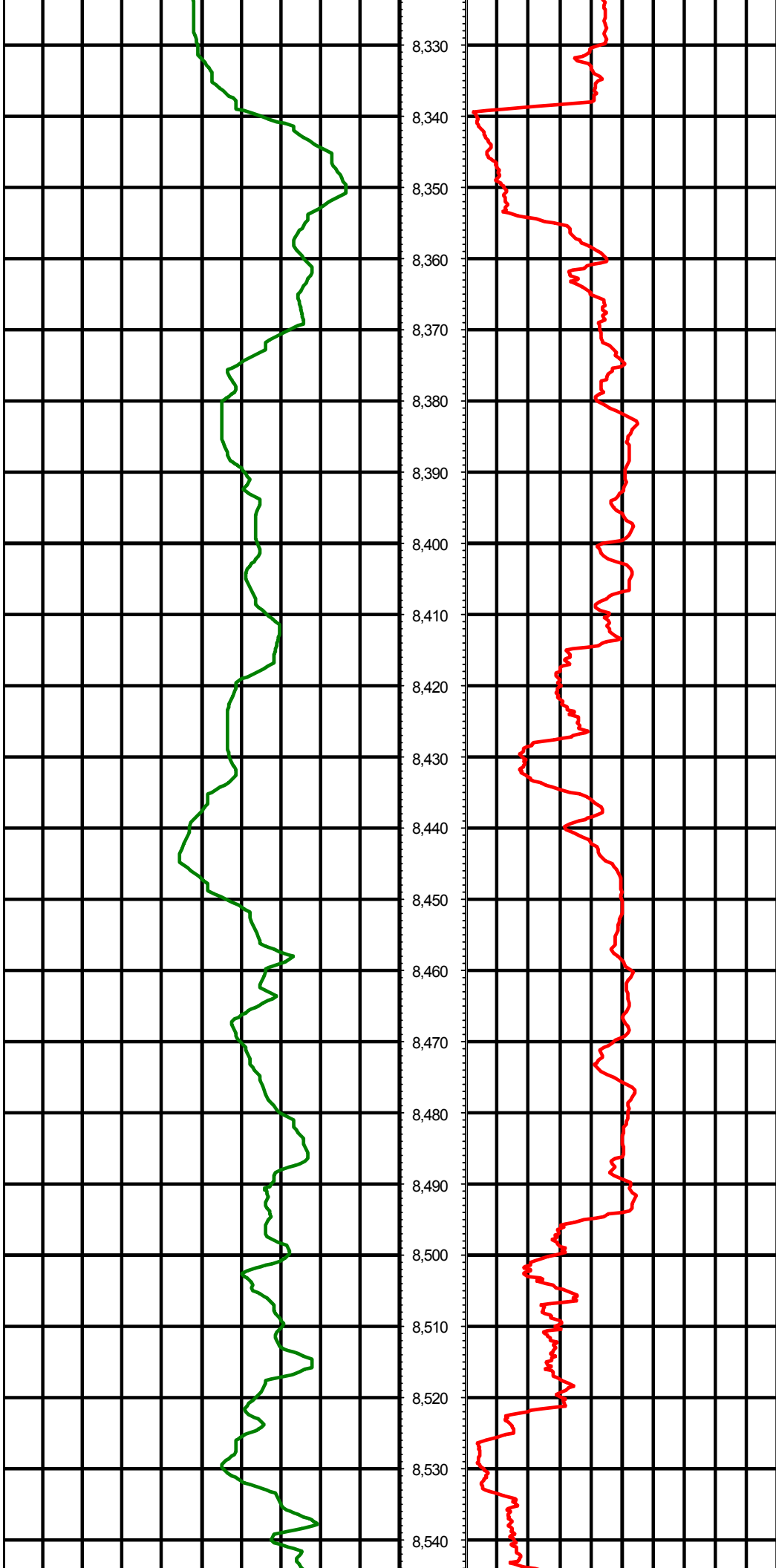
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MD: 8192.00 INC: 89.20 AZ: 358.50

MD: 8285.00 INC: 89.50 AZ: 357.70

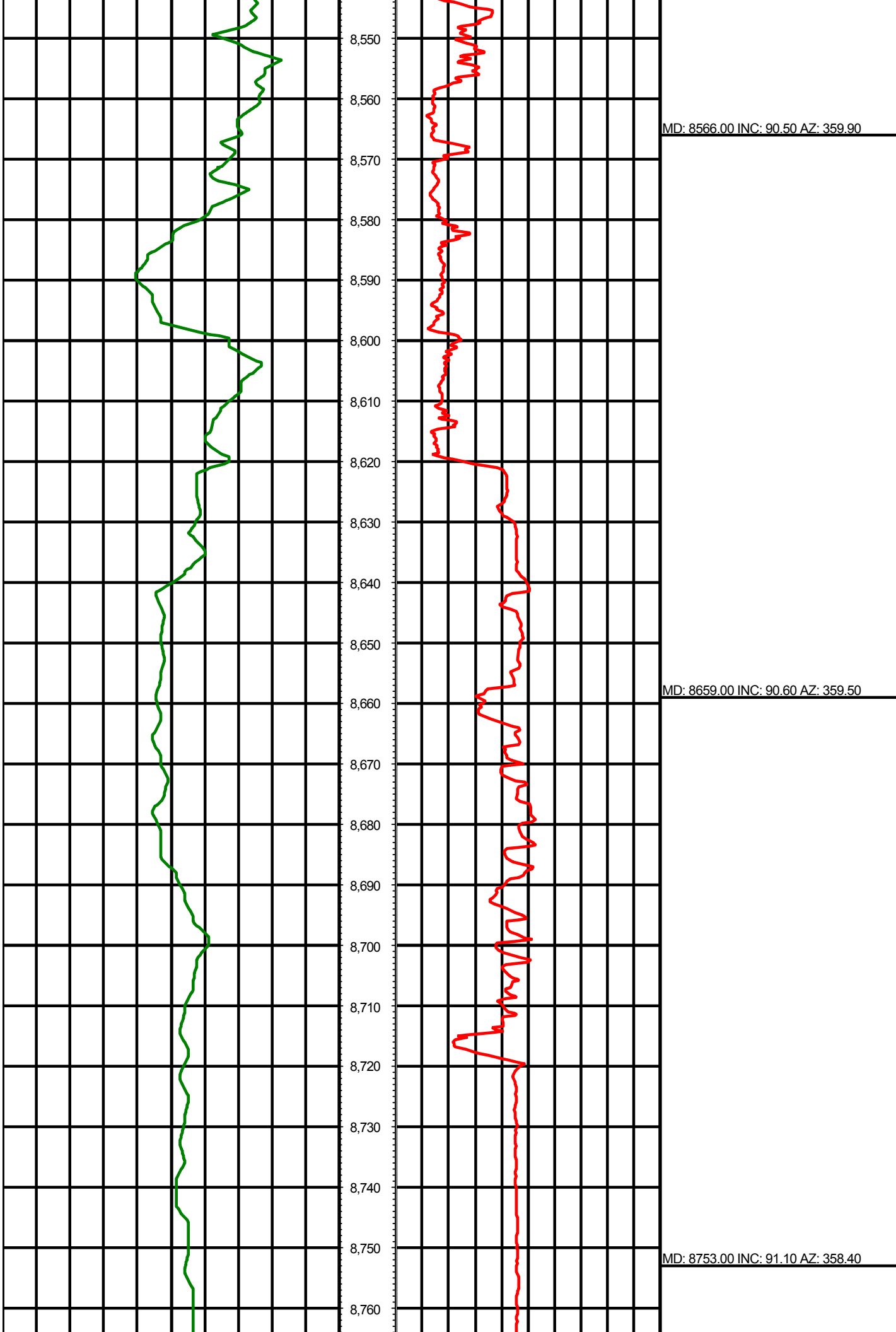


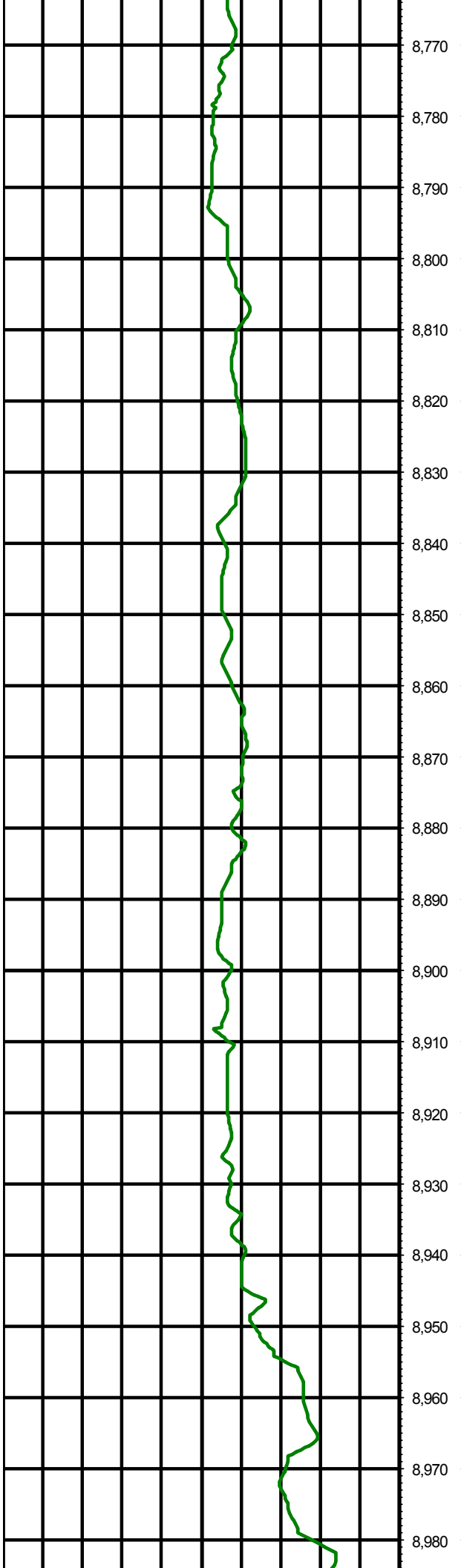


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MD: 8379.00 INC: 89.10 AZ: 359.20

MD: 8472.00 INC: 88.80 AZ: 358.20

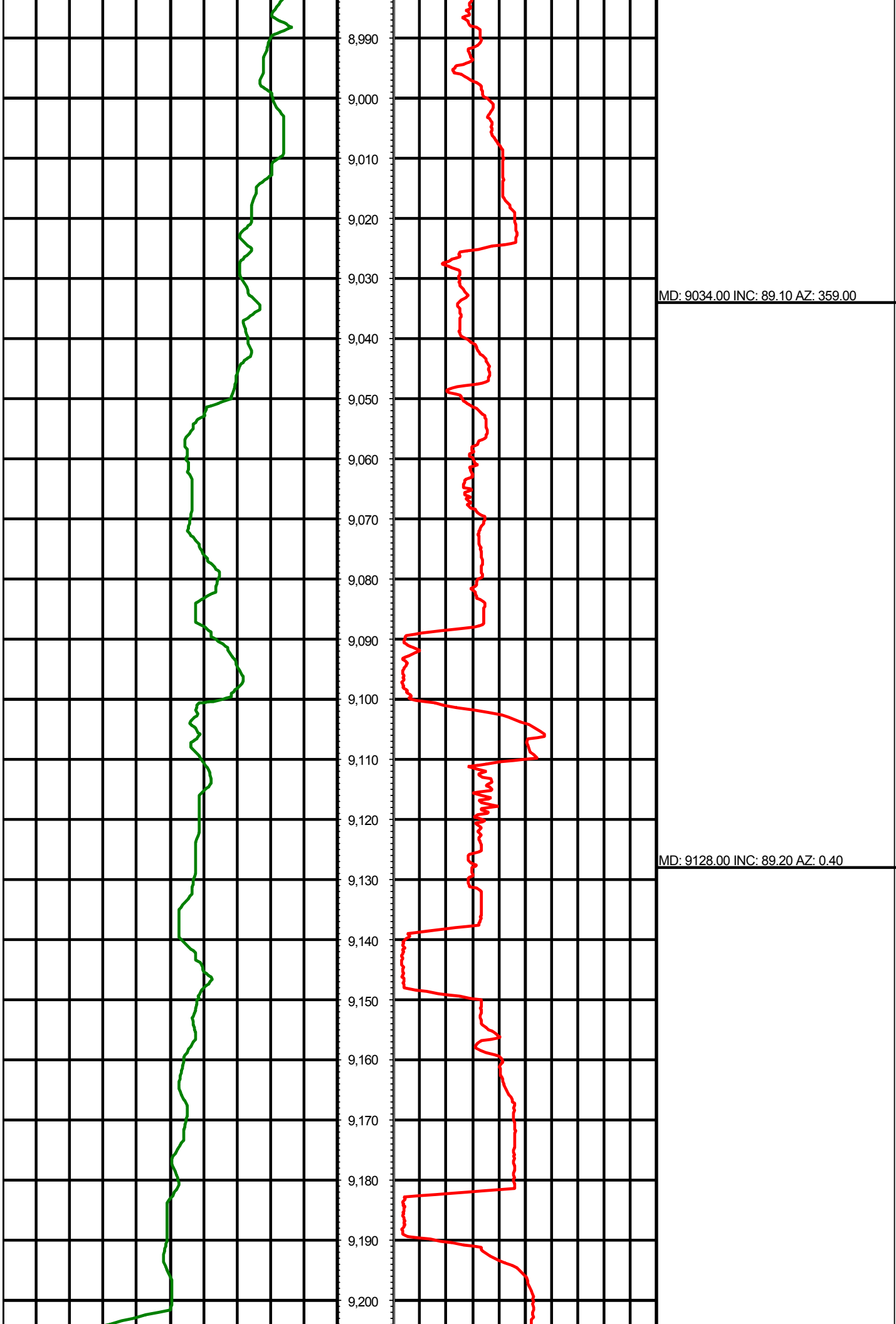


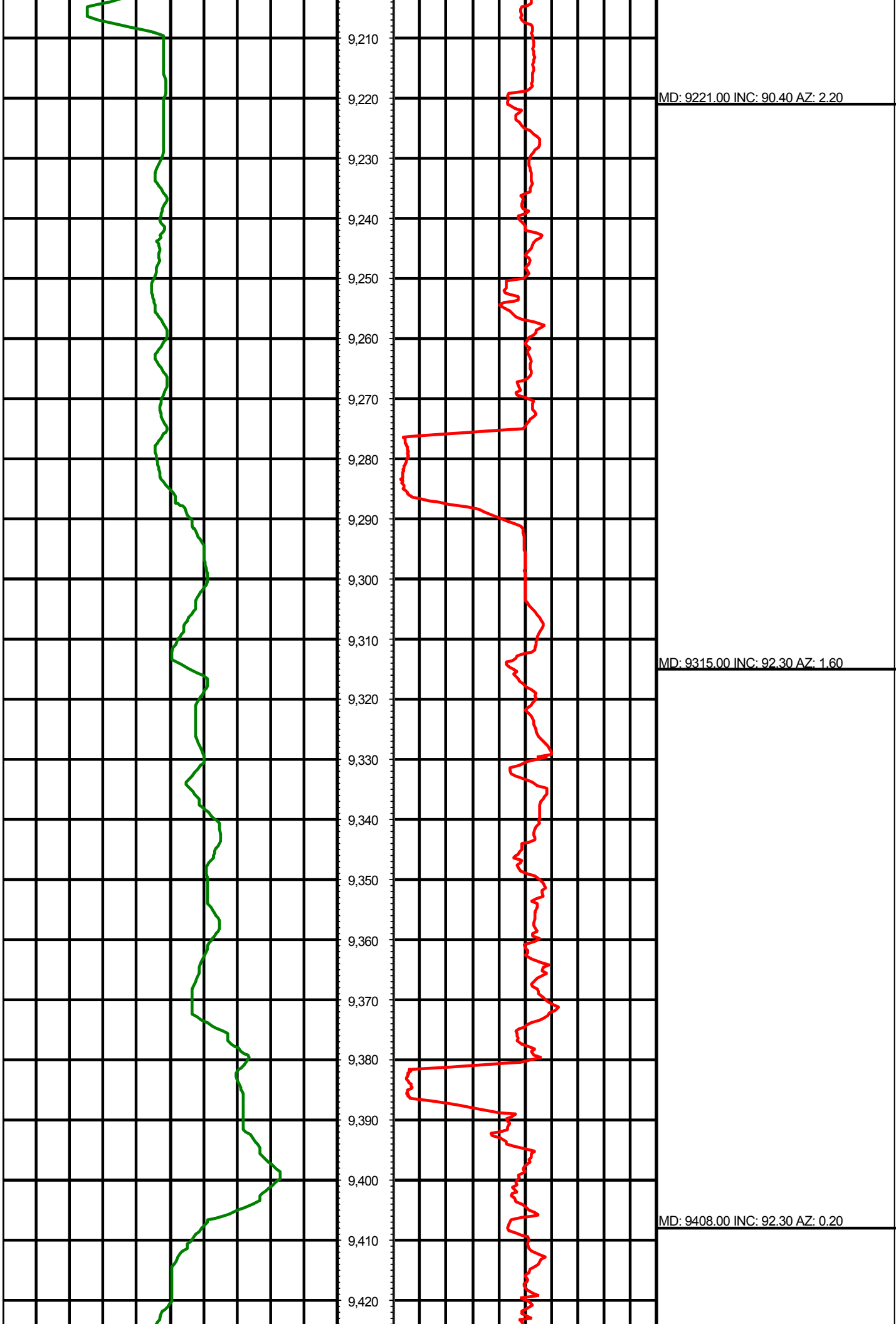


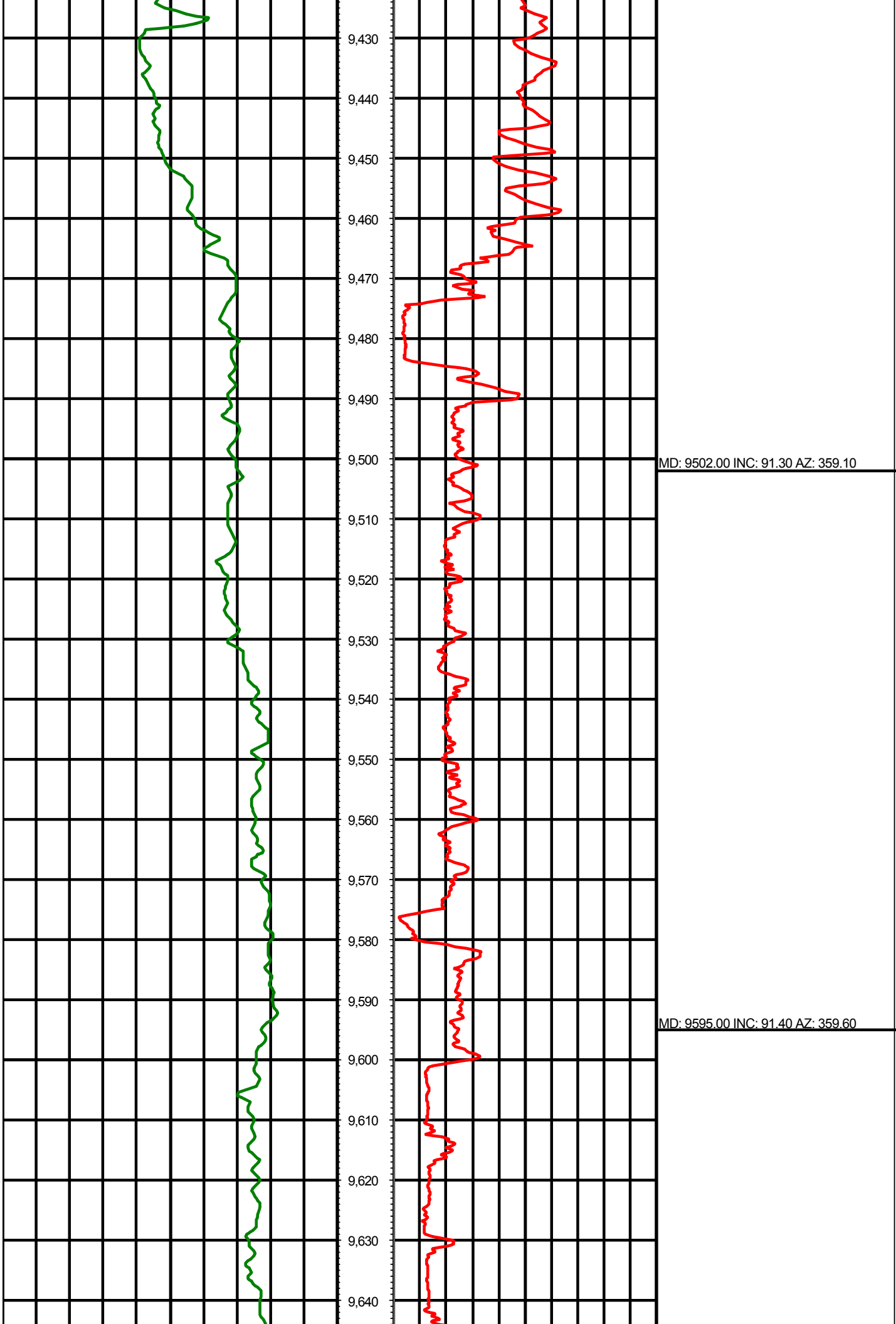
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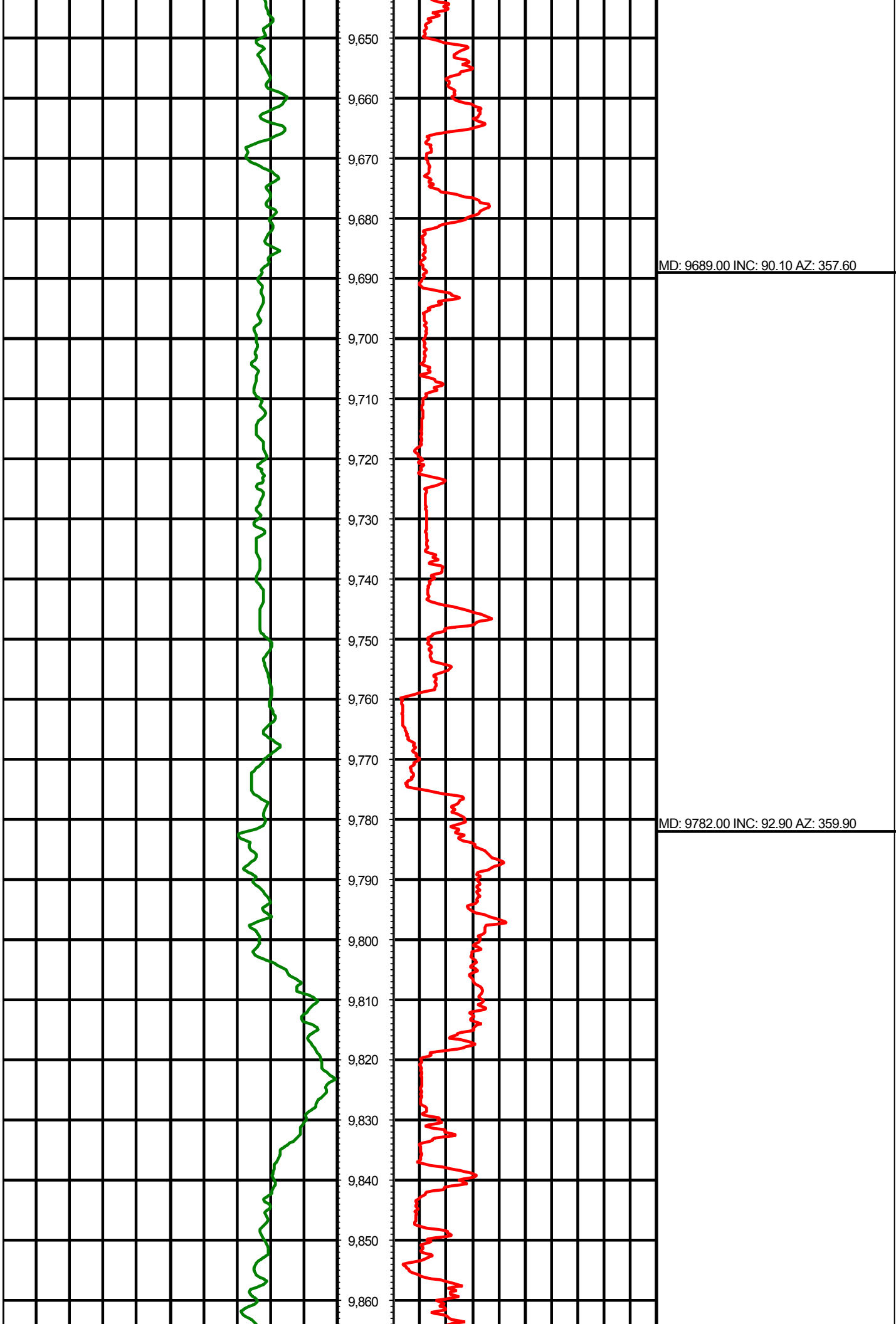
MD: 8847.00 INC: 90.90 AZ: 359.20

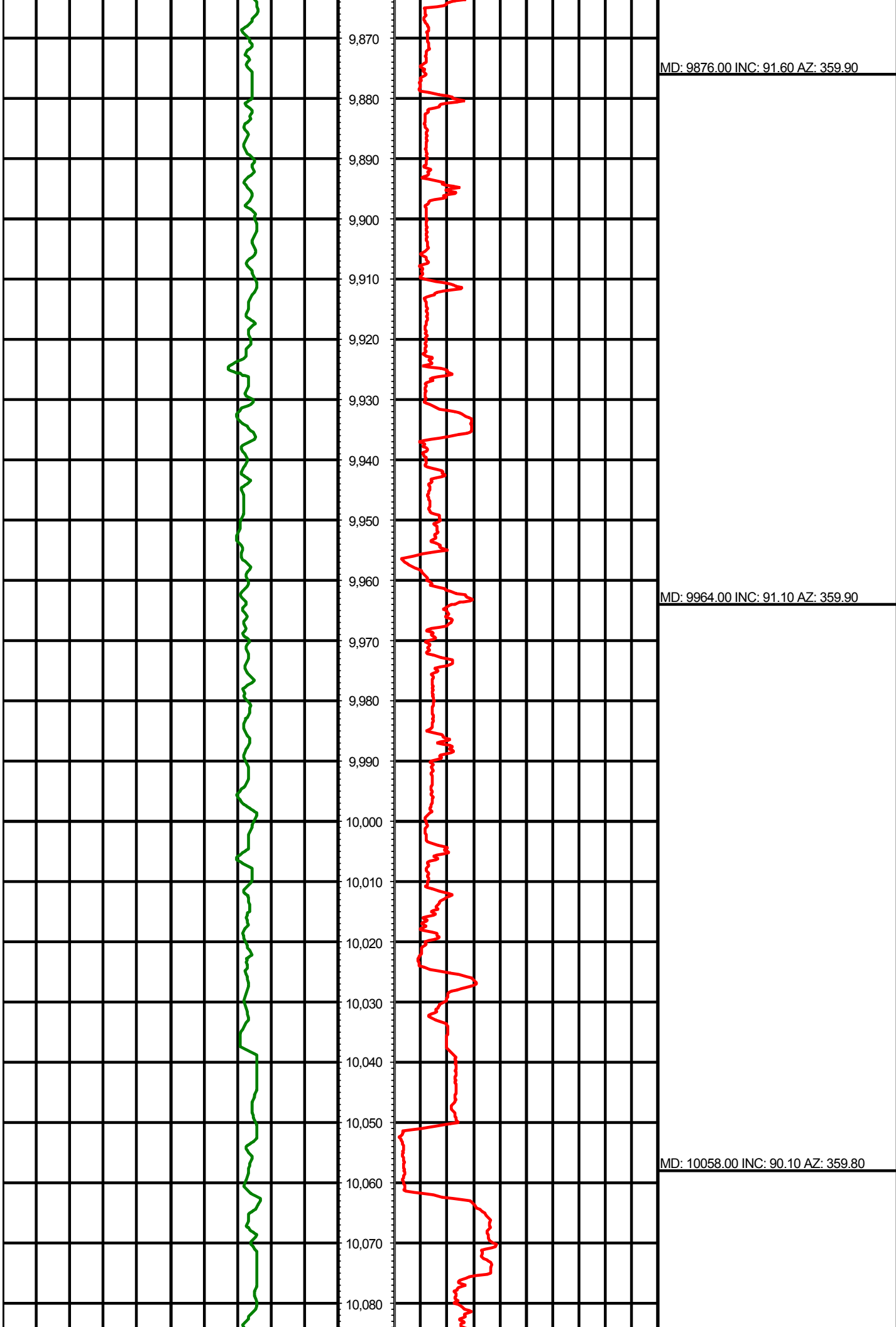
MD: 8941.00 INC: 90.30 AZ: 0.20



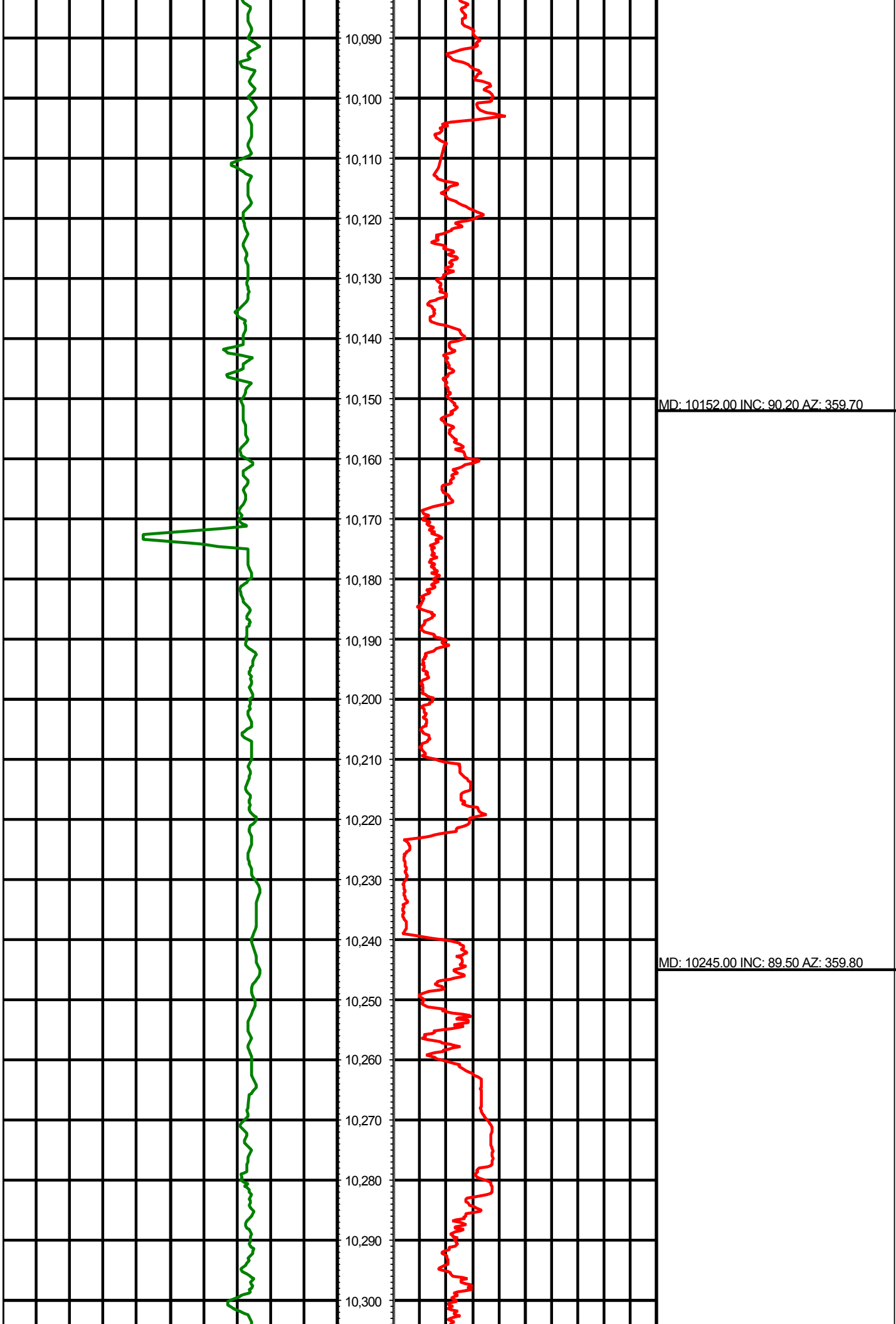


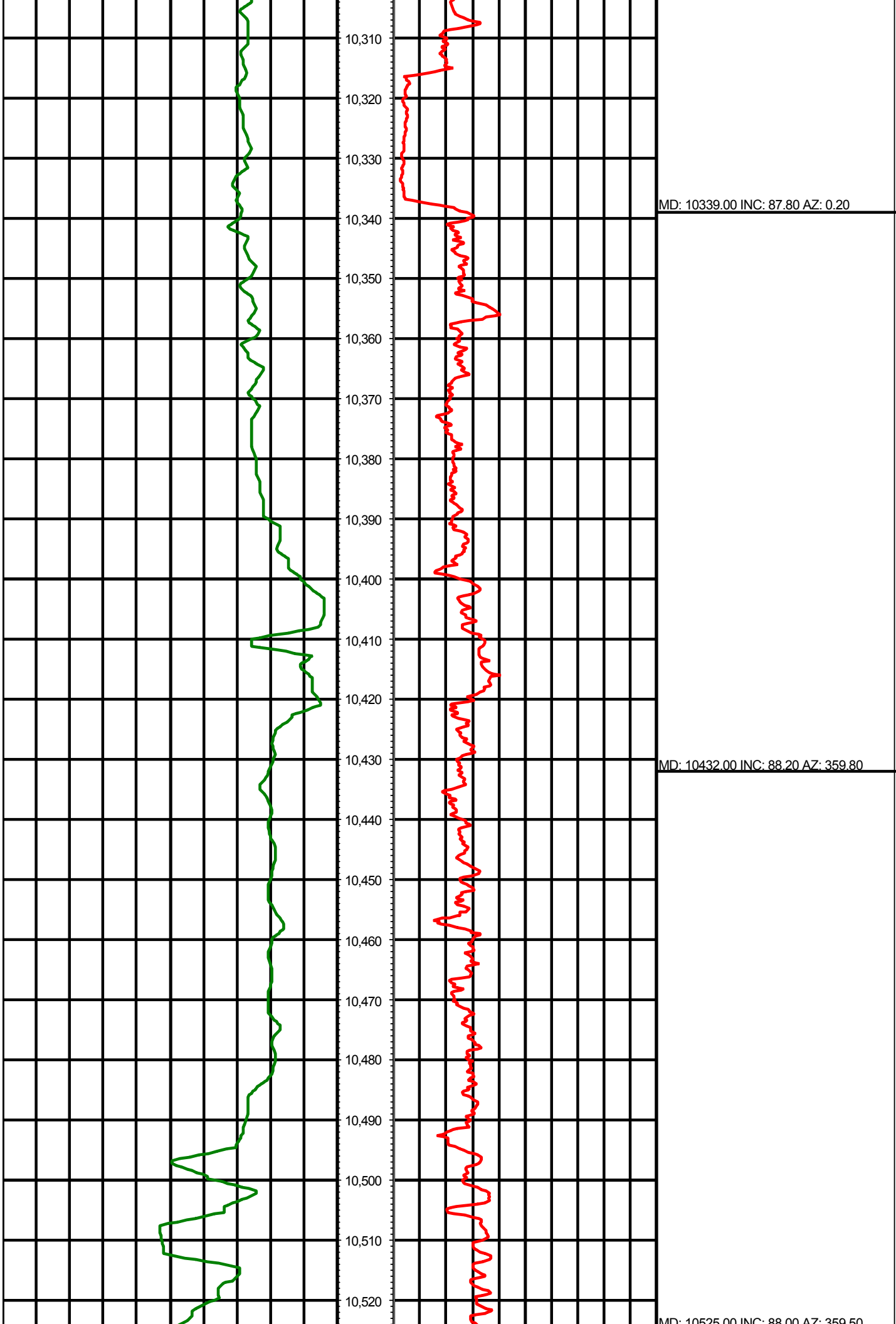








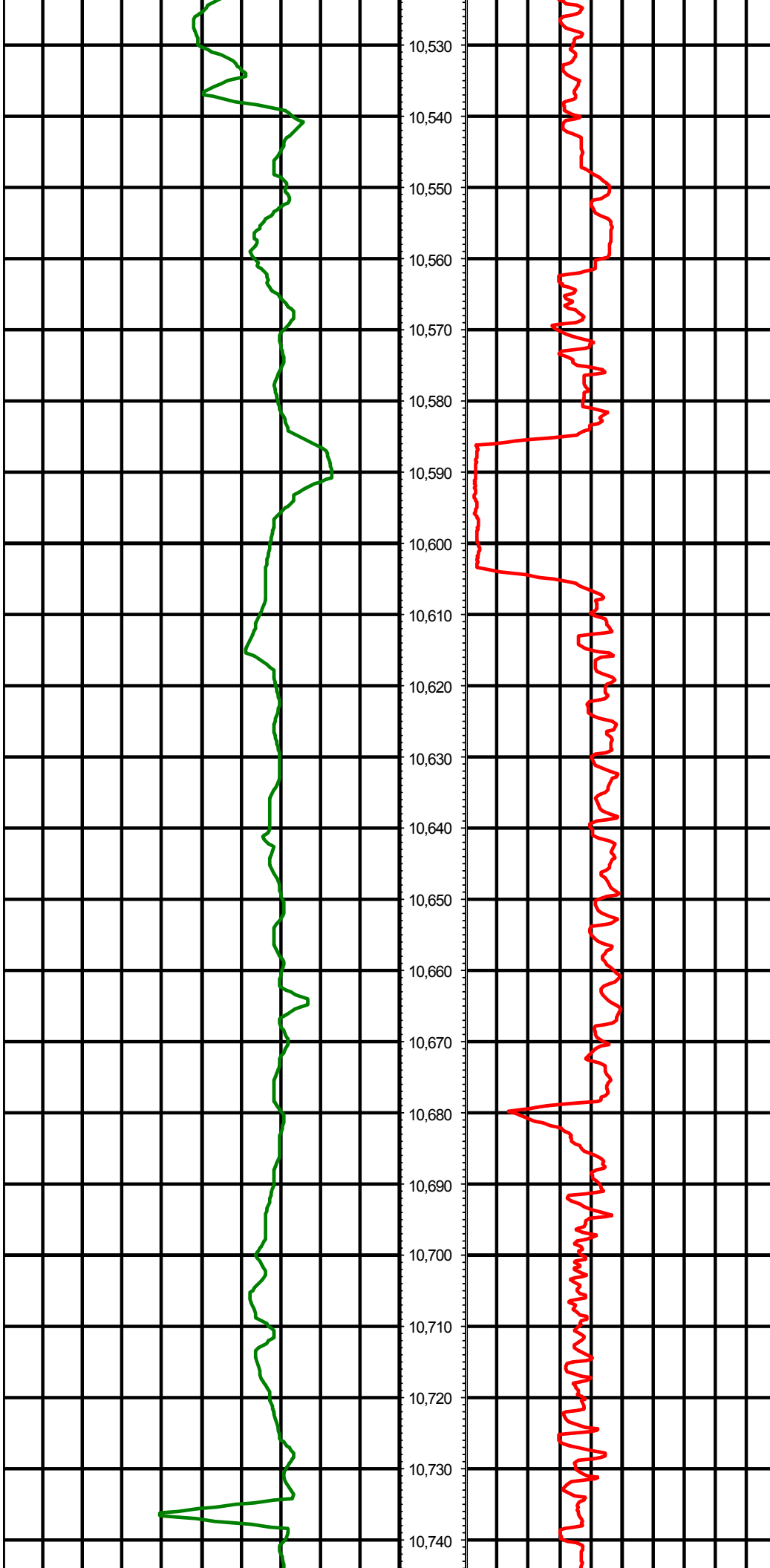


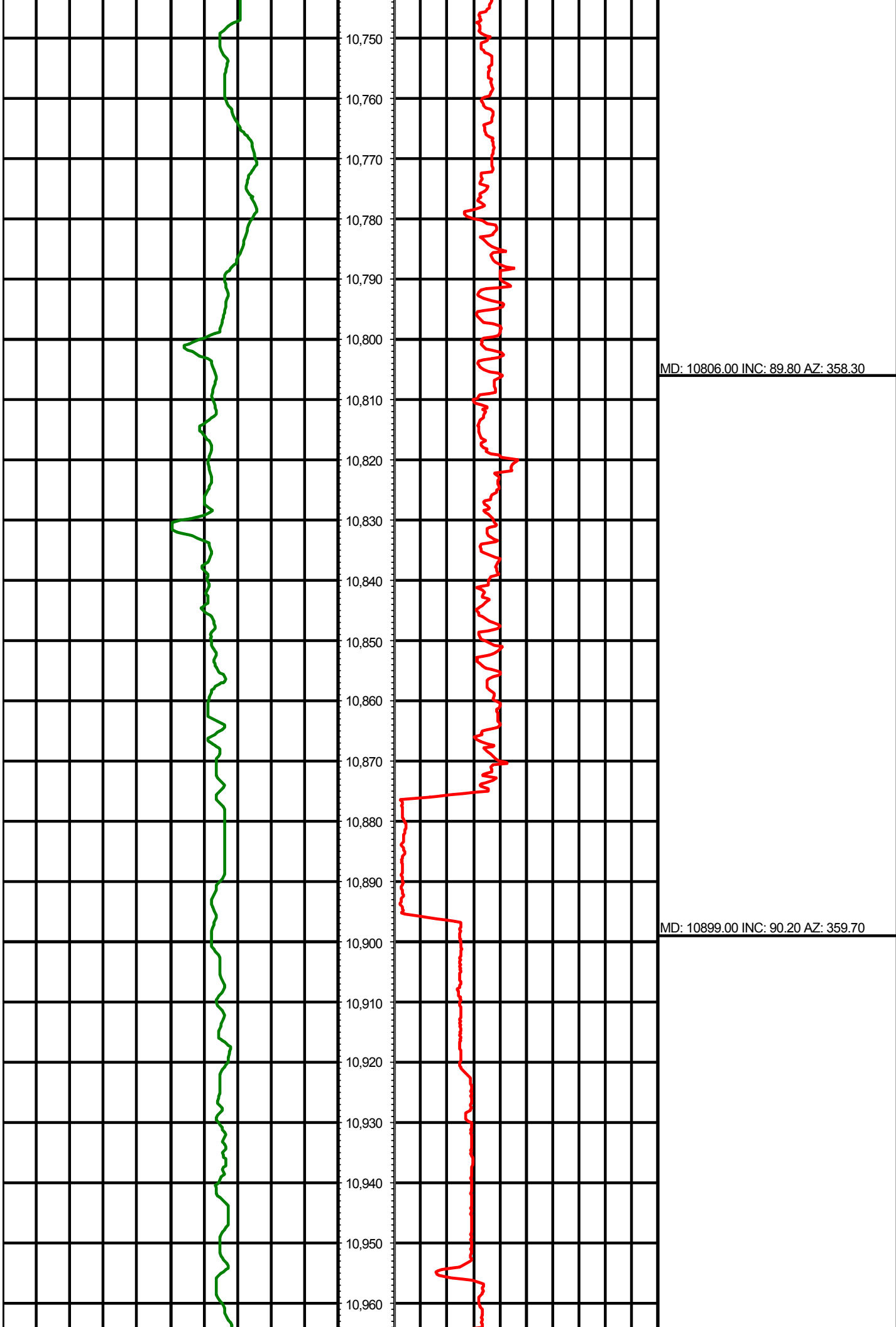


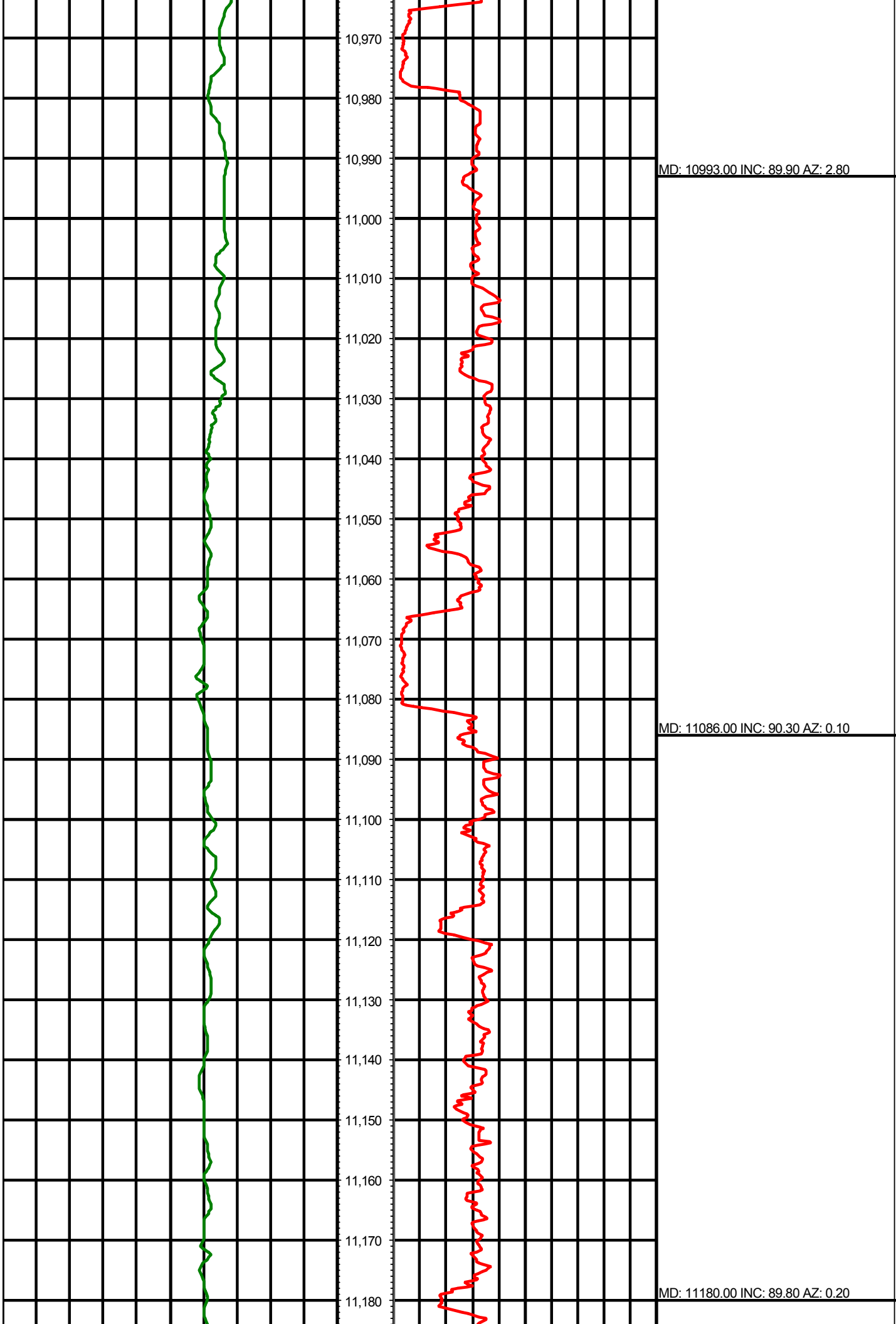
MD: 10525.00 INC: 88.00 AZ: 359.50

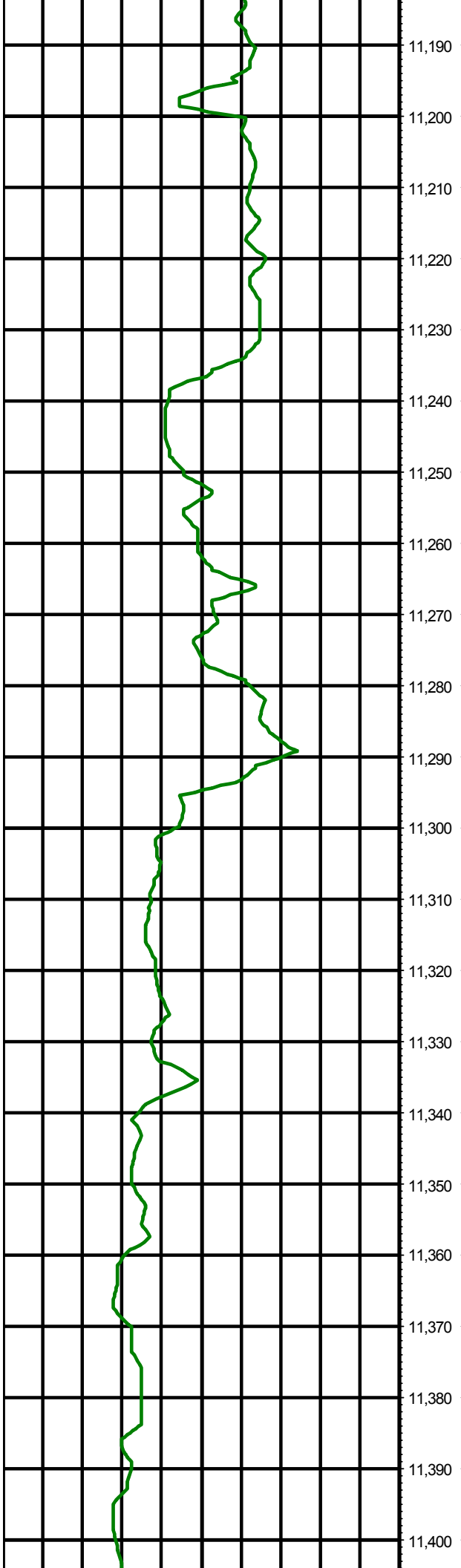
MD: 10619.00 INC: 89.80 AZ: 359.90

MD: 10712.00 INC: 89.80 AZ: 359.60

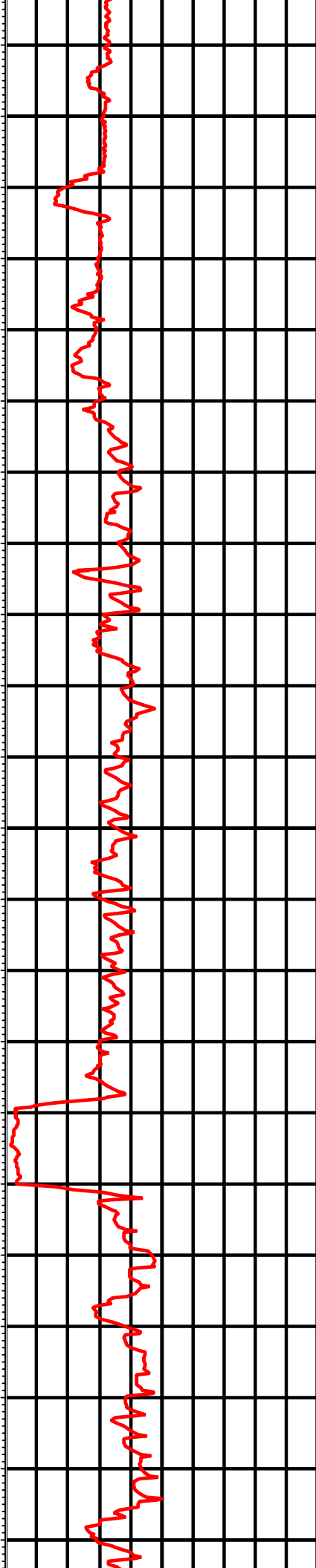






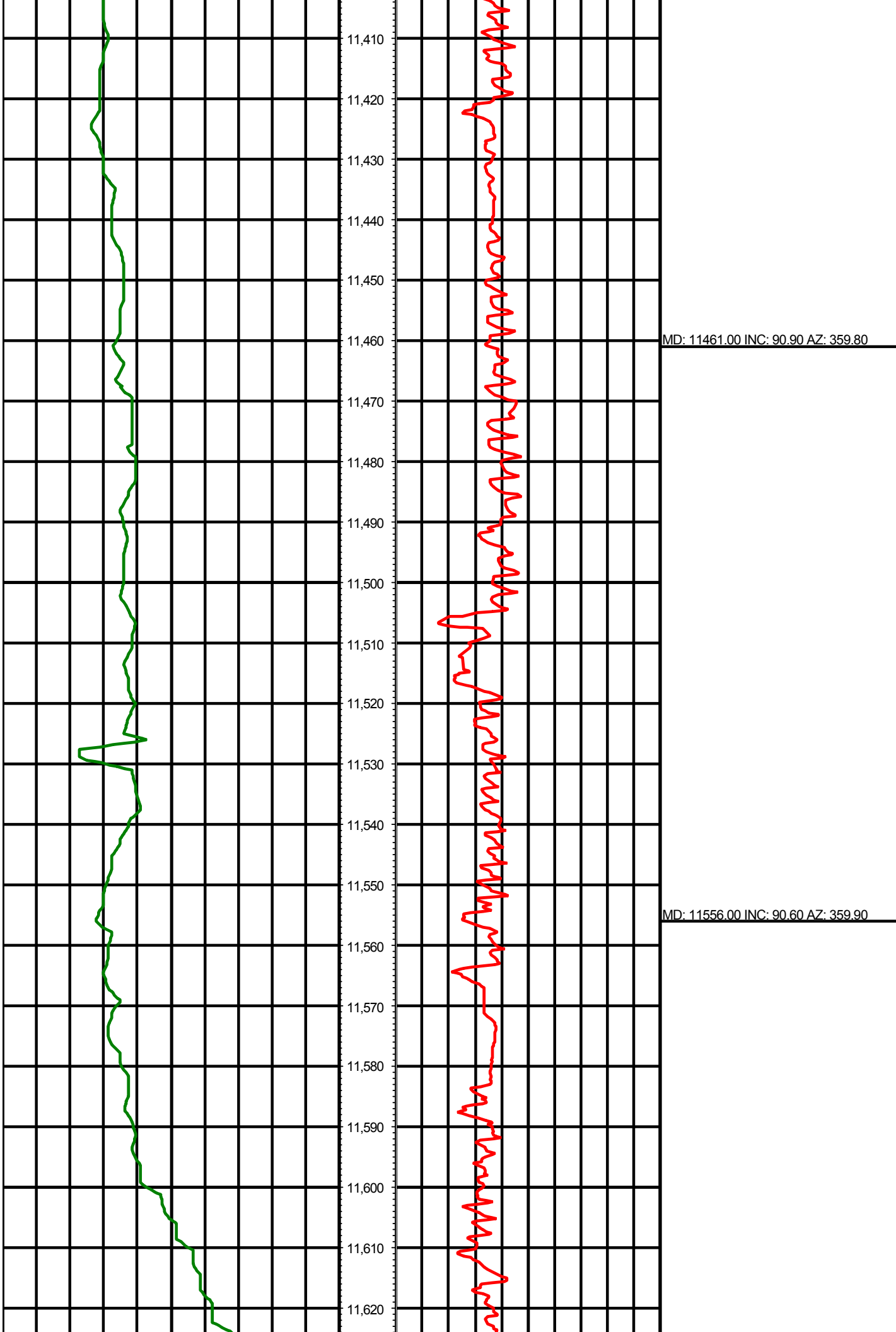


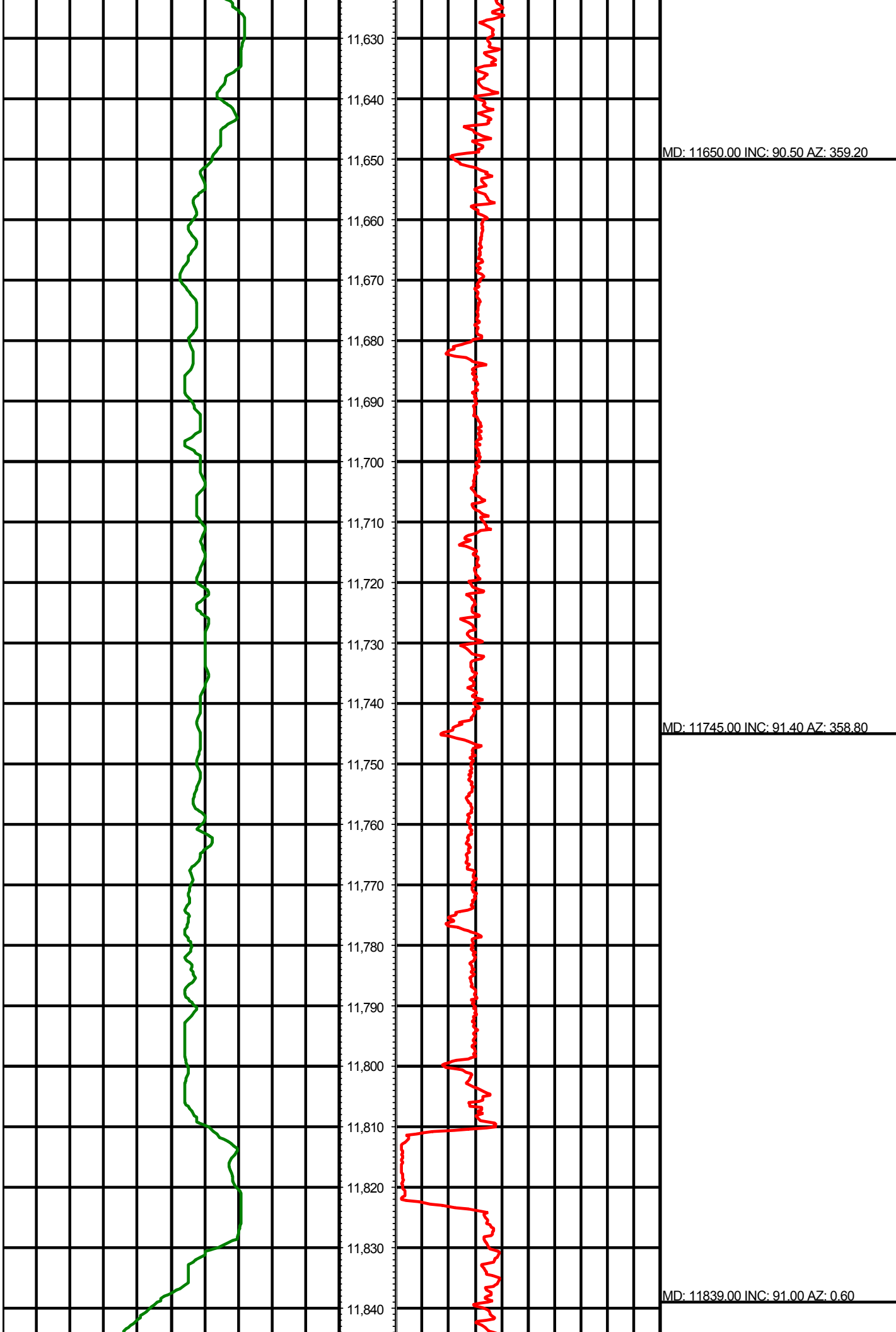
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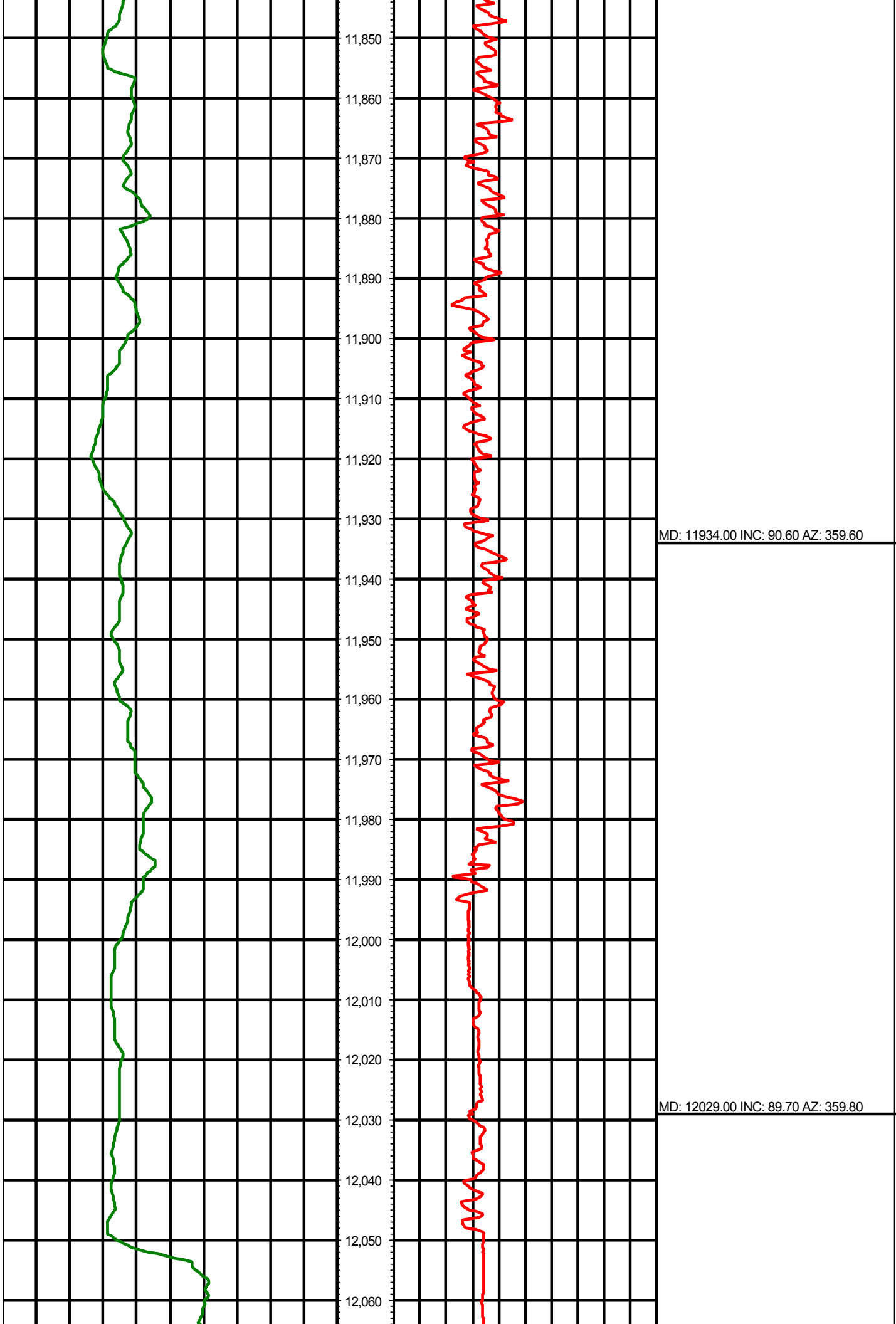
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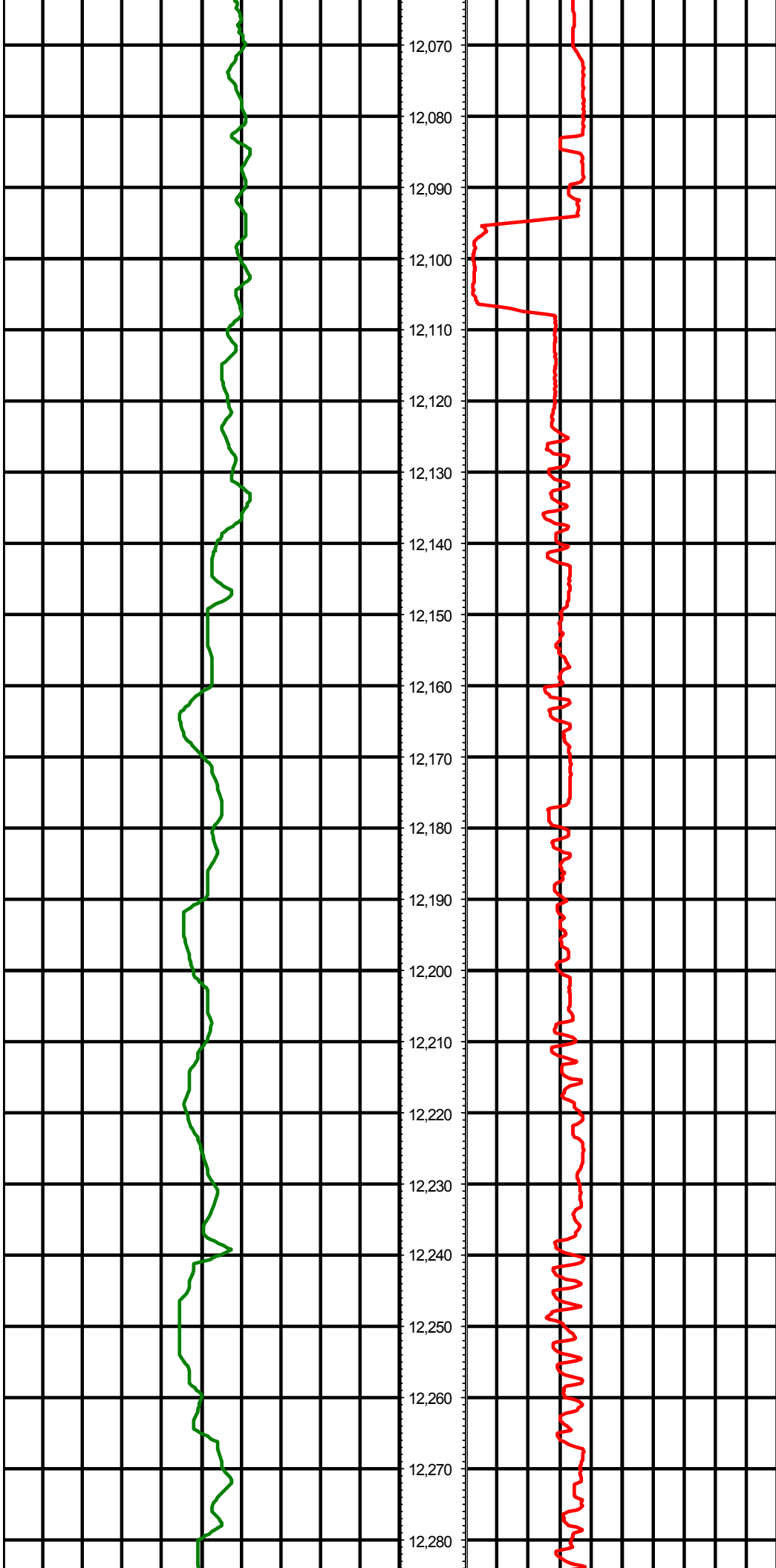
MD: 11367.00 INC: 90.40 AZ: 0.40





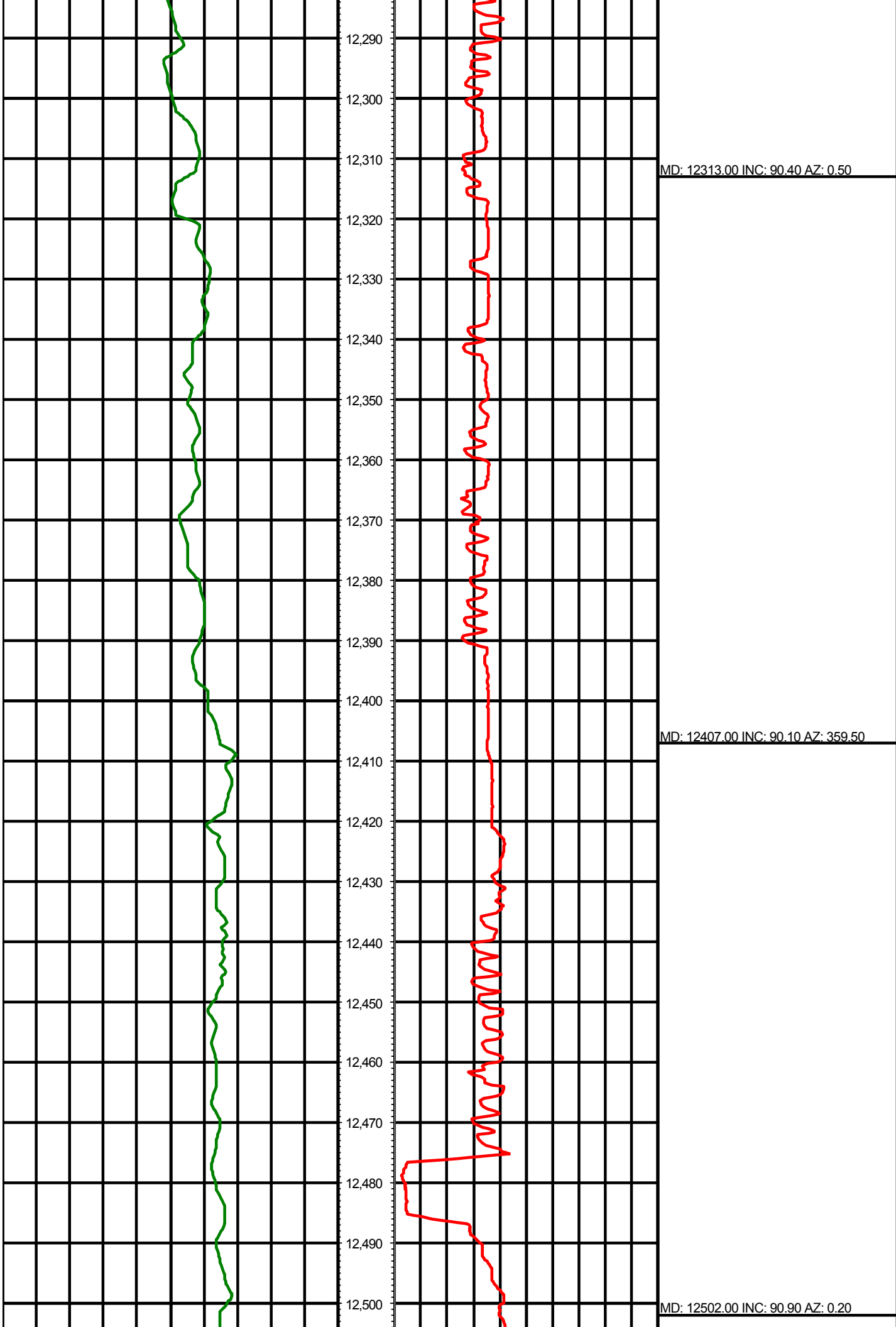


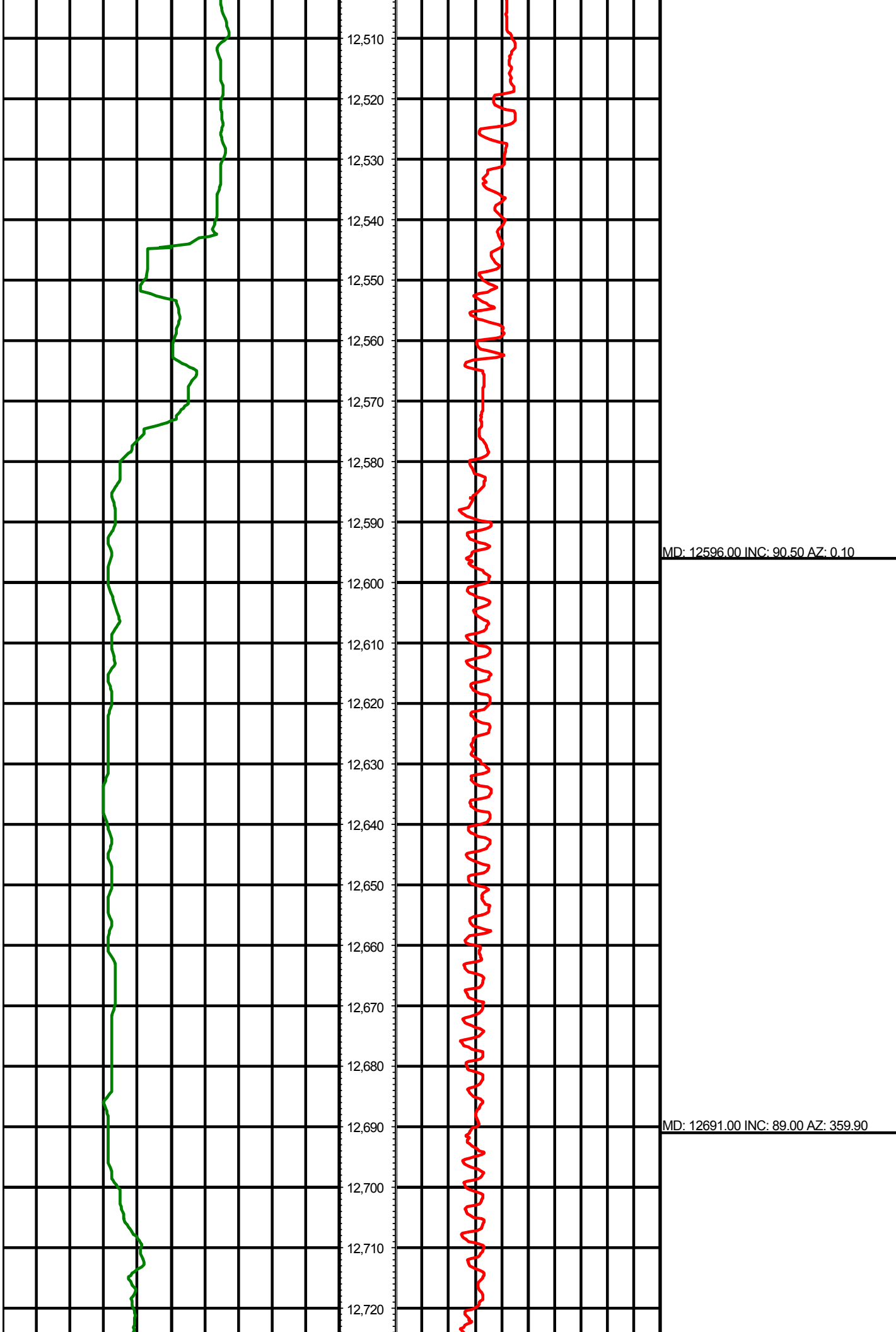


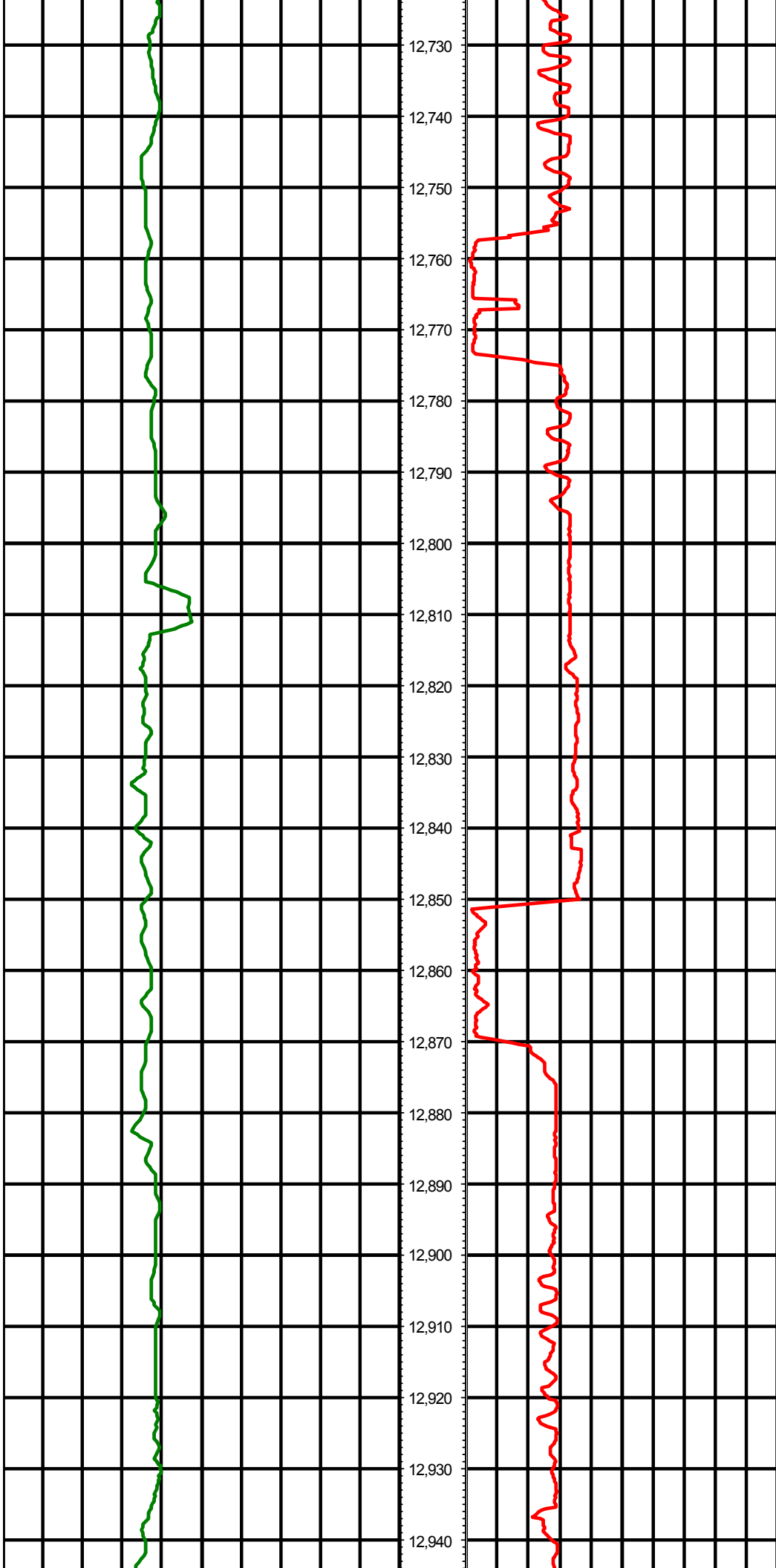


MD: 12124.00 INC: 90.80 AZ: 0.60

MD: 12219.00 INC: 90.70 AZ: 0.80

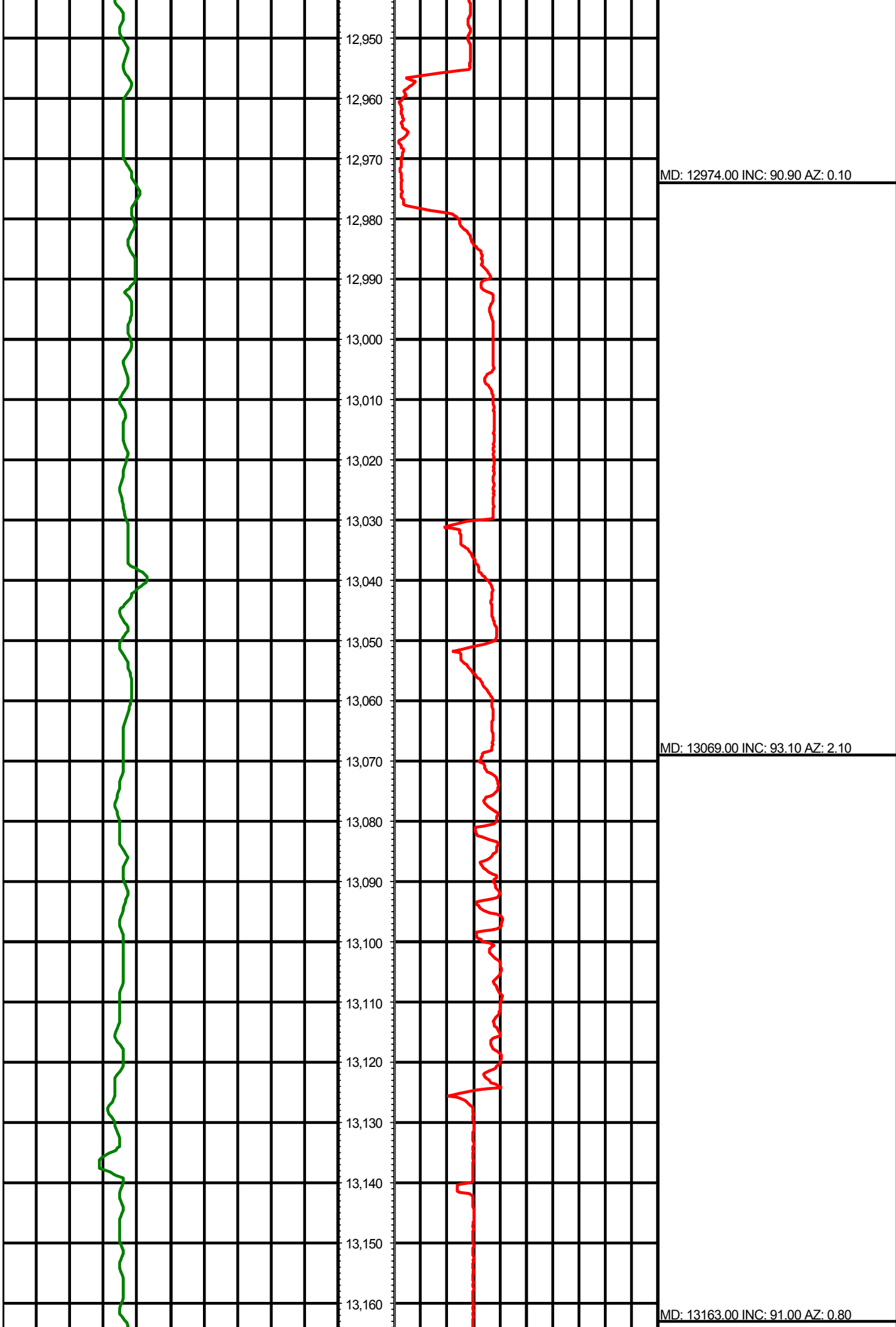


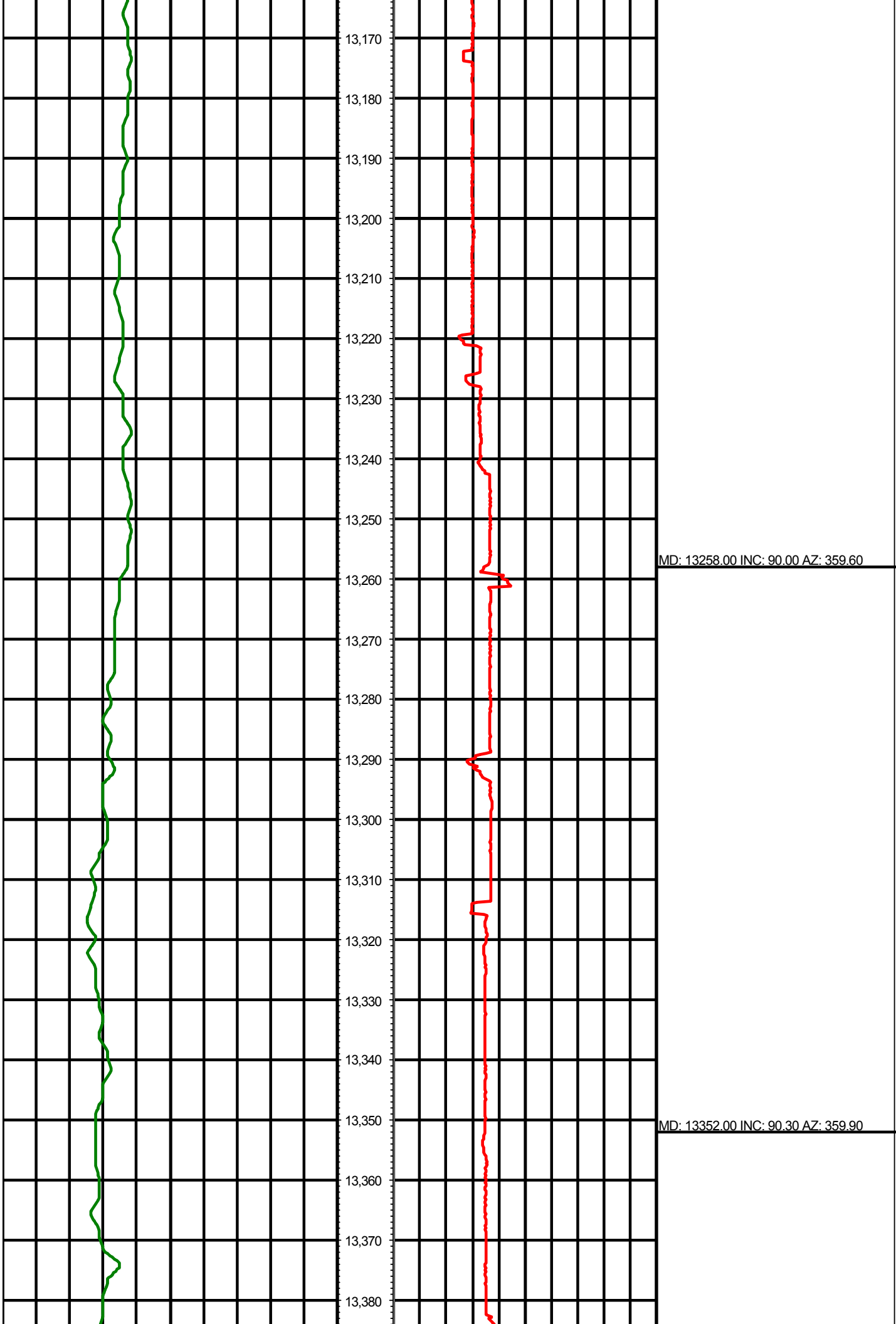


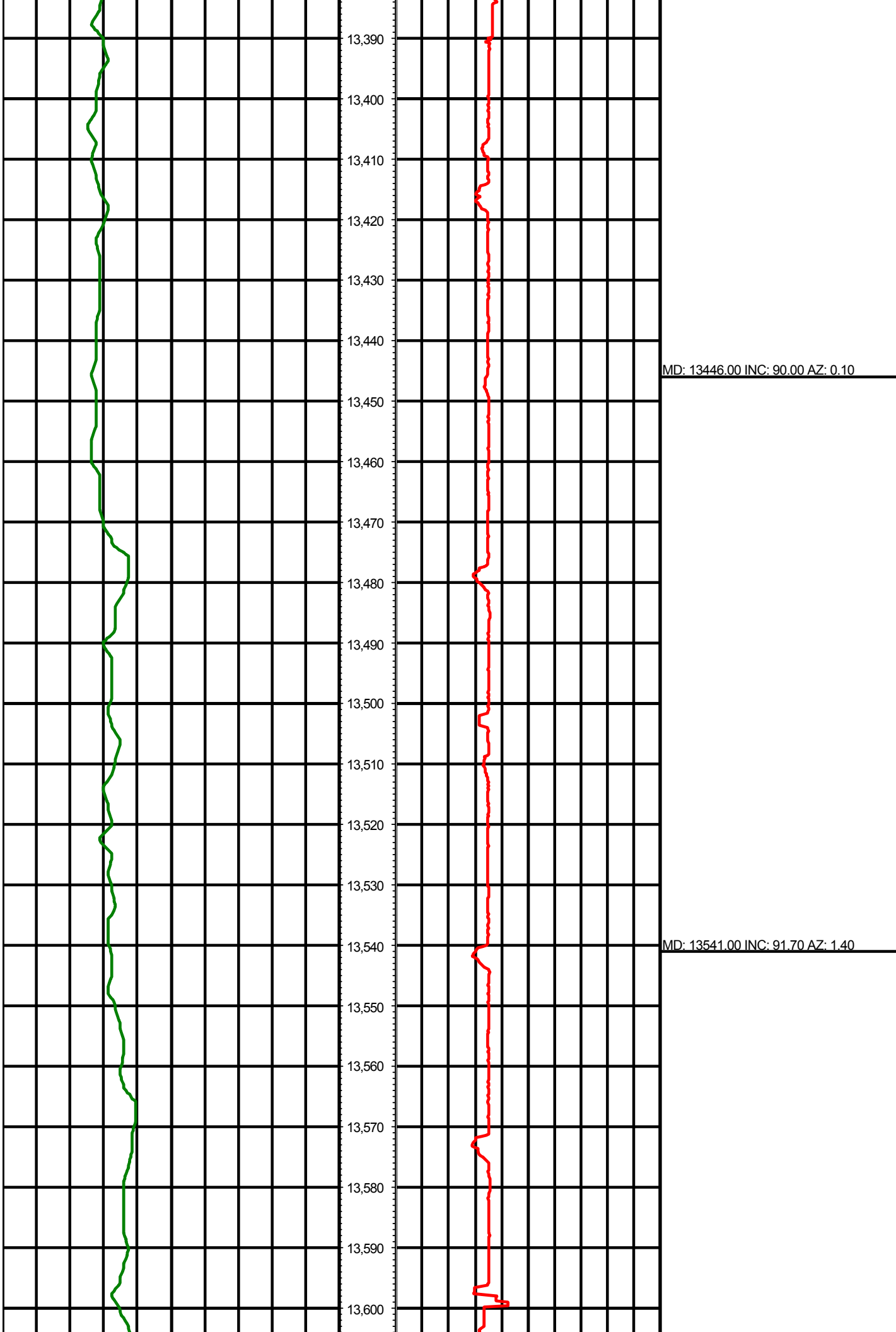


MD: 12785.00 INC: 89.90 AZ: 1.30

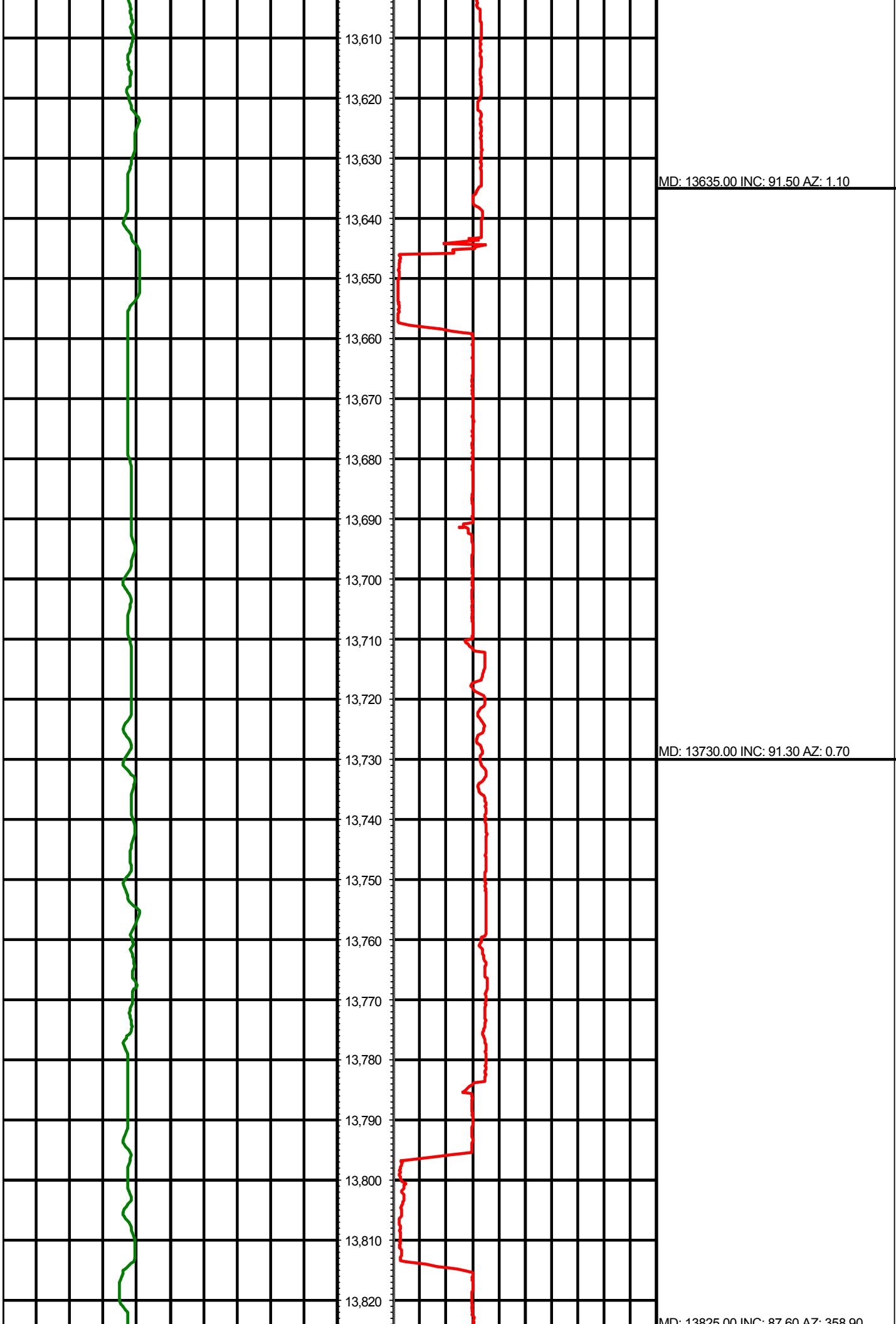
MD: 12880.00 INC: 90.30 AZ: 1.20











MD: 13635.00 INC: 91.50 AZ: 1.10

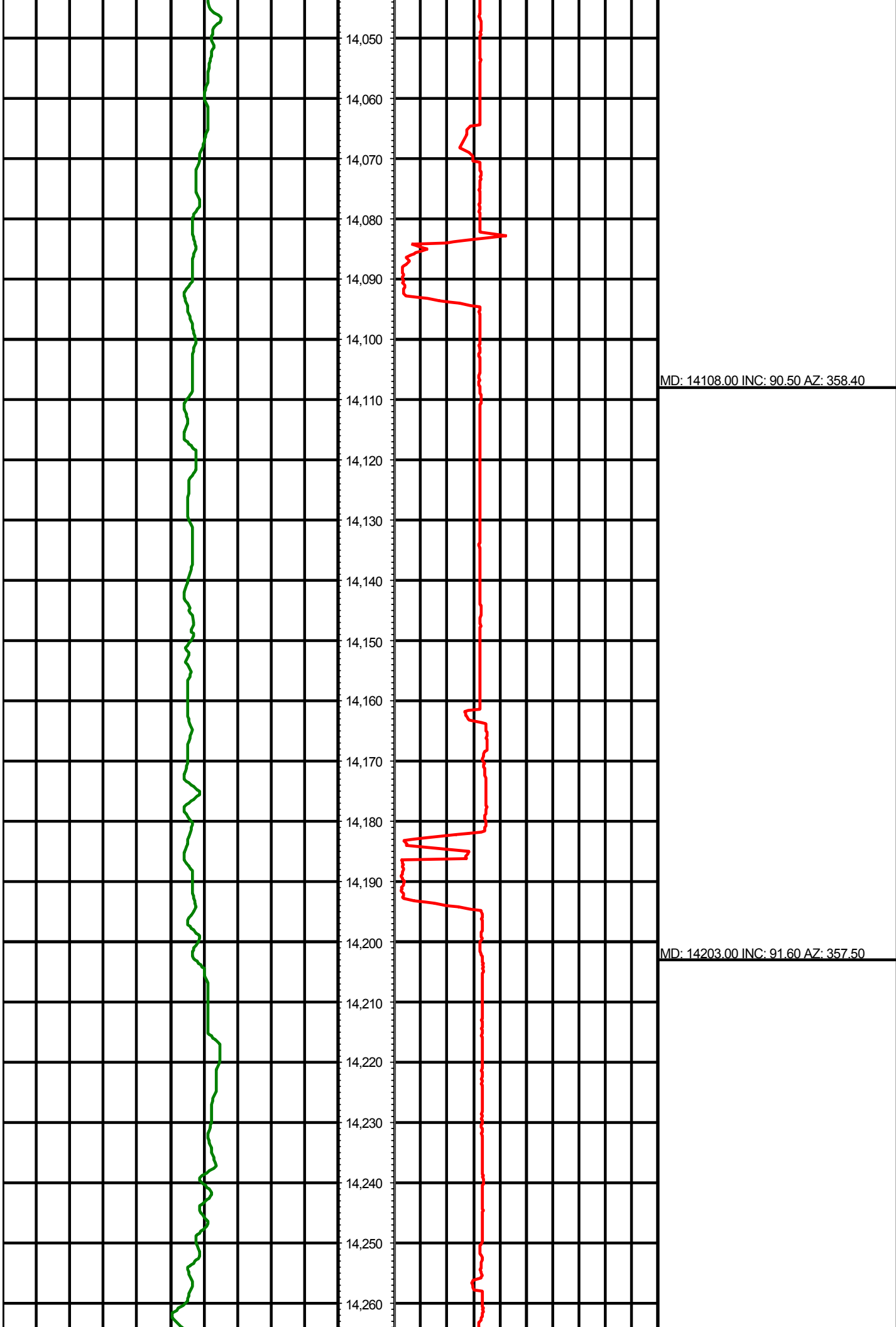
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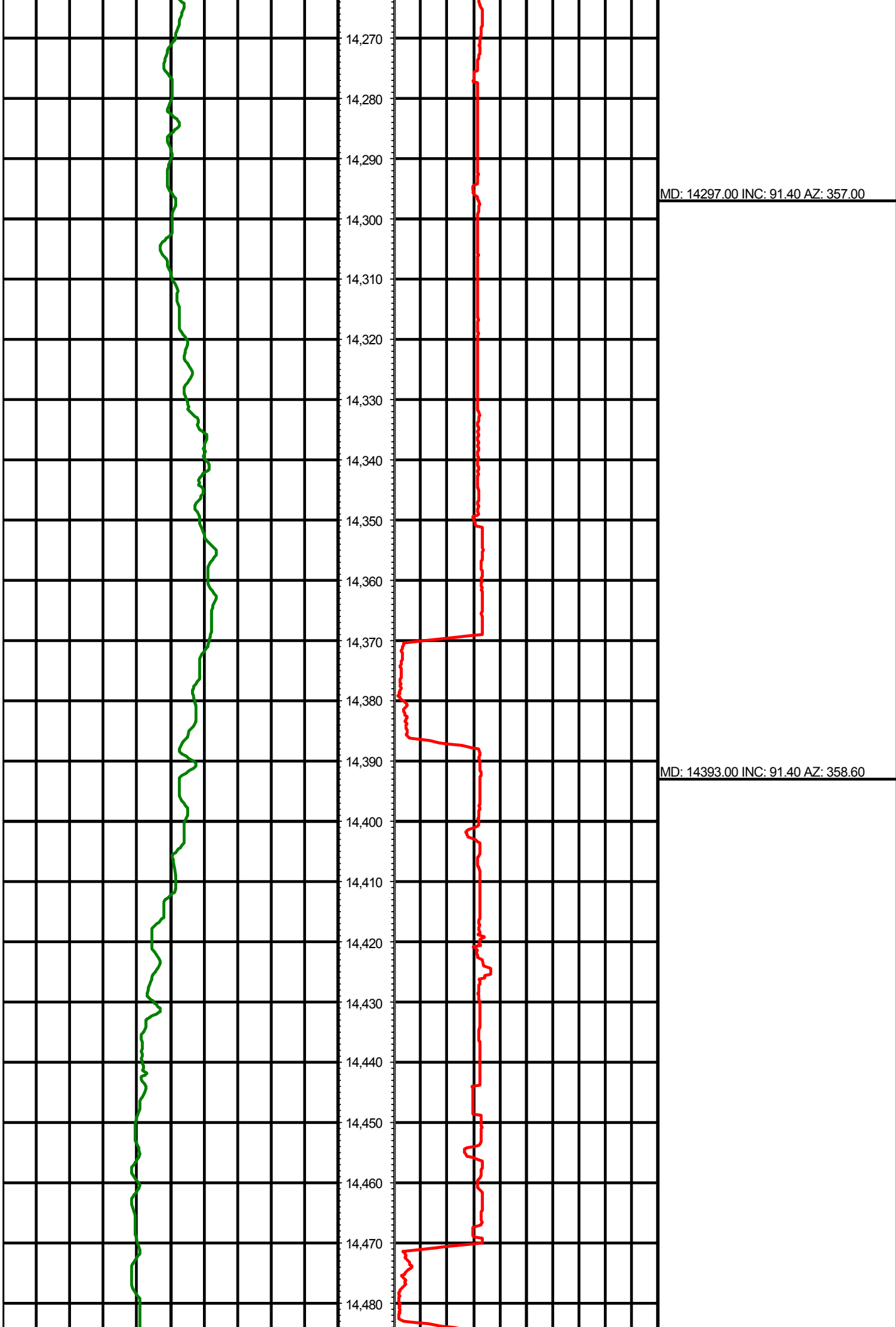
MD: 13825.00 INC: 87.60 AZ: 358.90

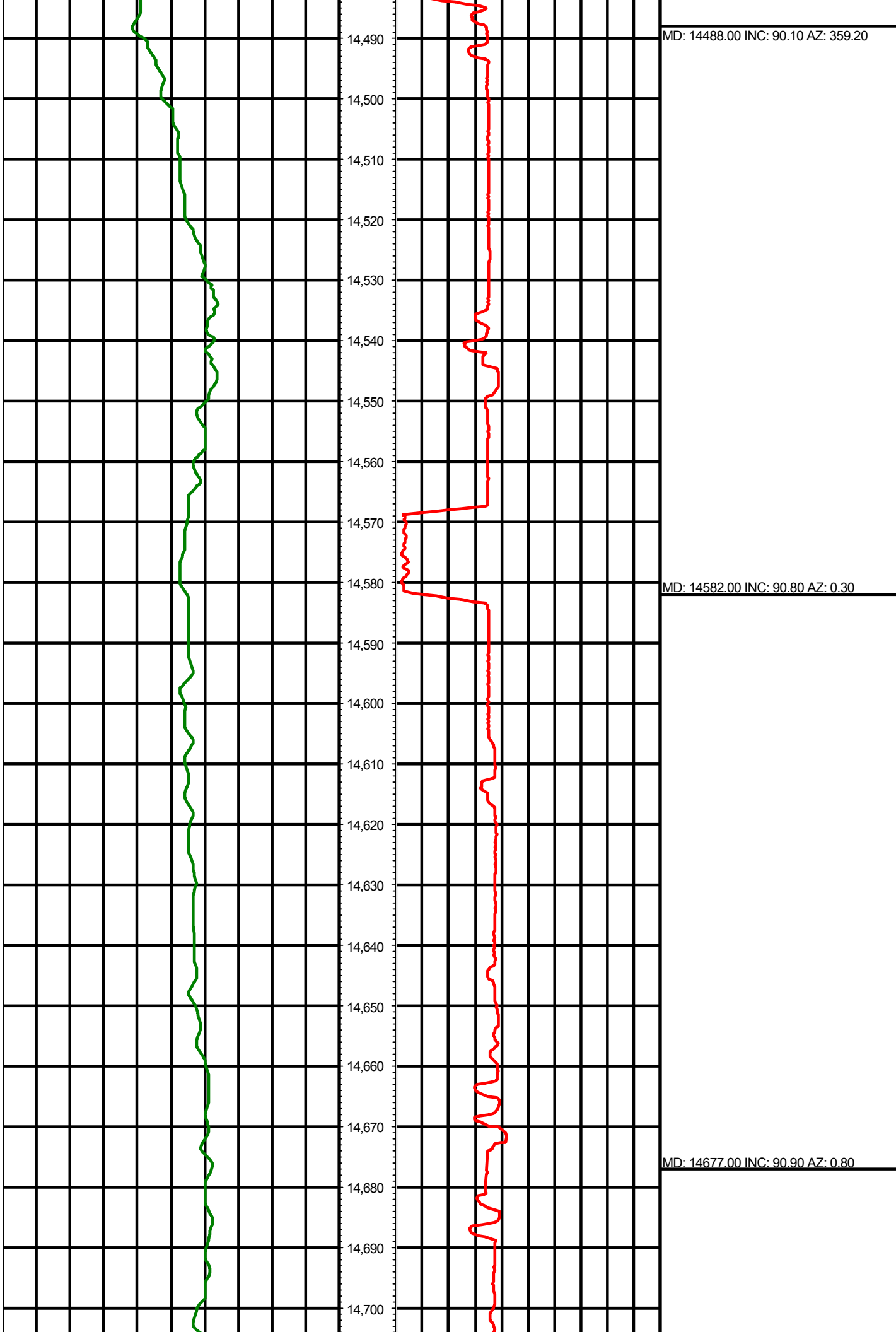
MD: 13825.00 INC: 87.60 AZ: 358.90

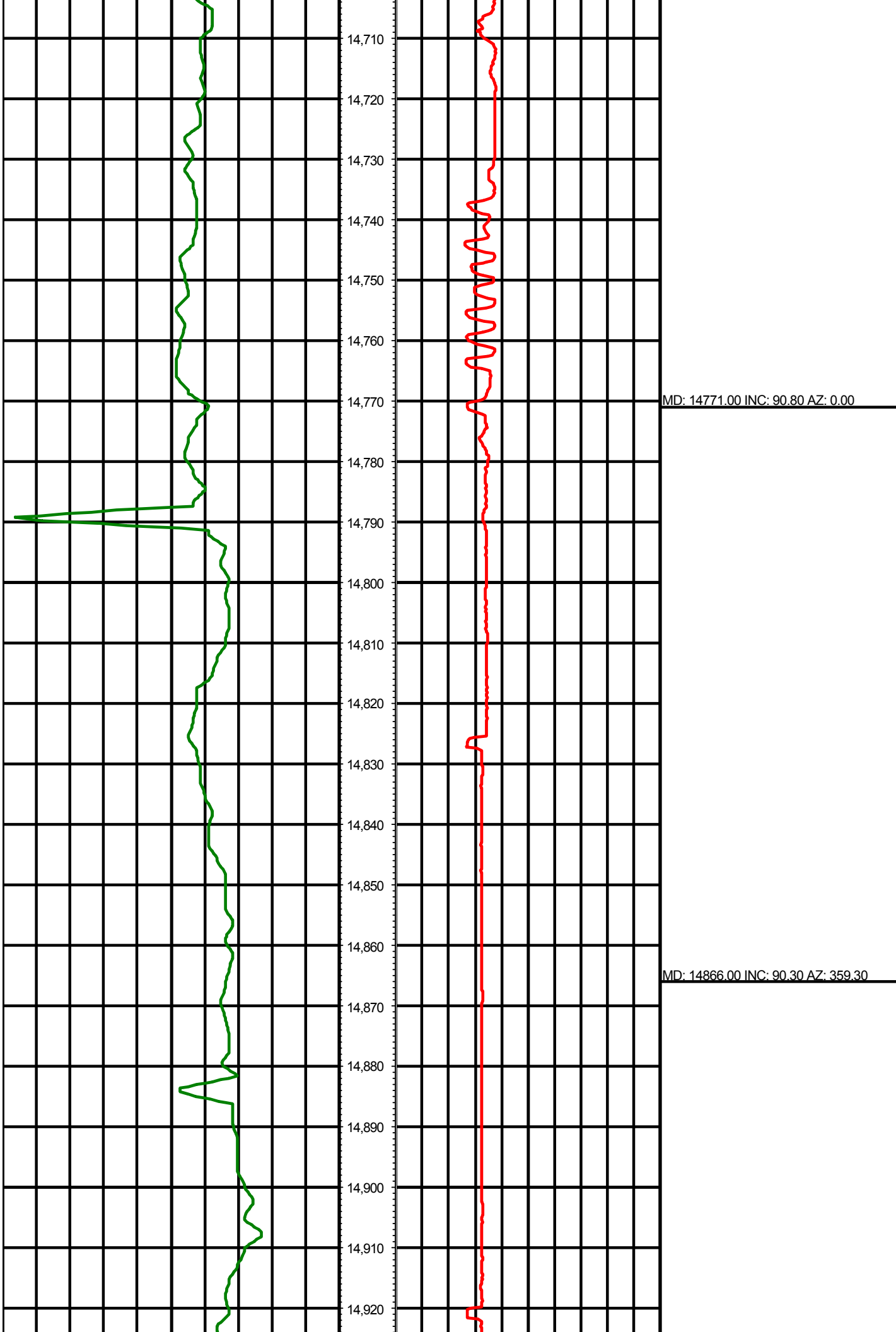
MD: 13919.00 INC: 87.10 AZ: 358.60

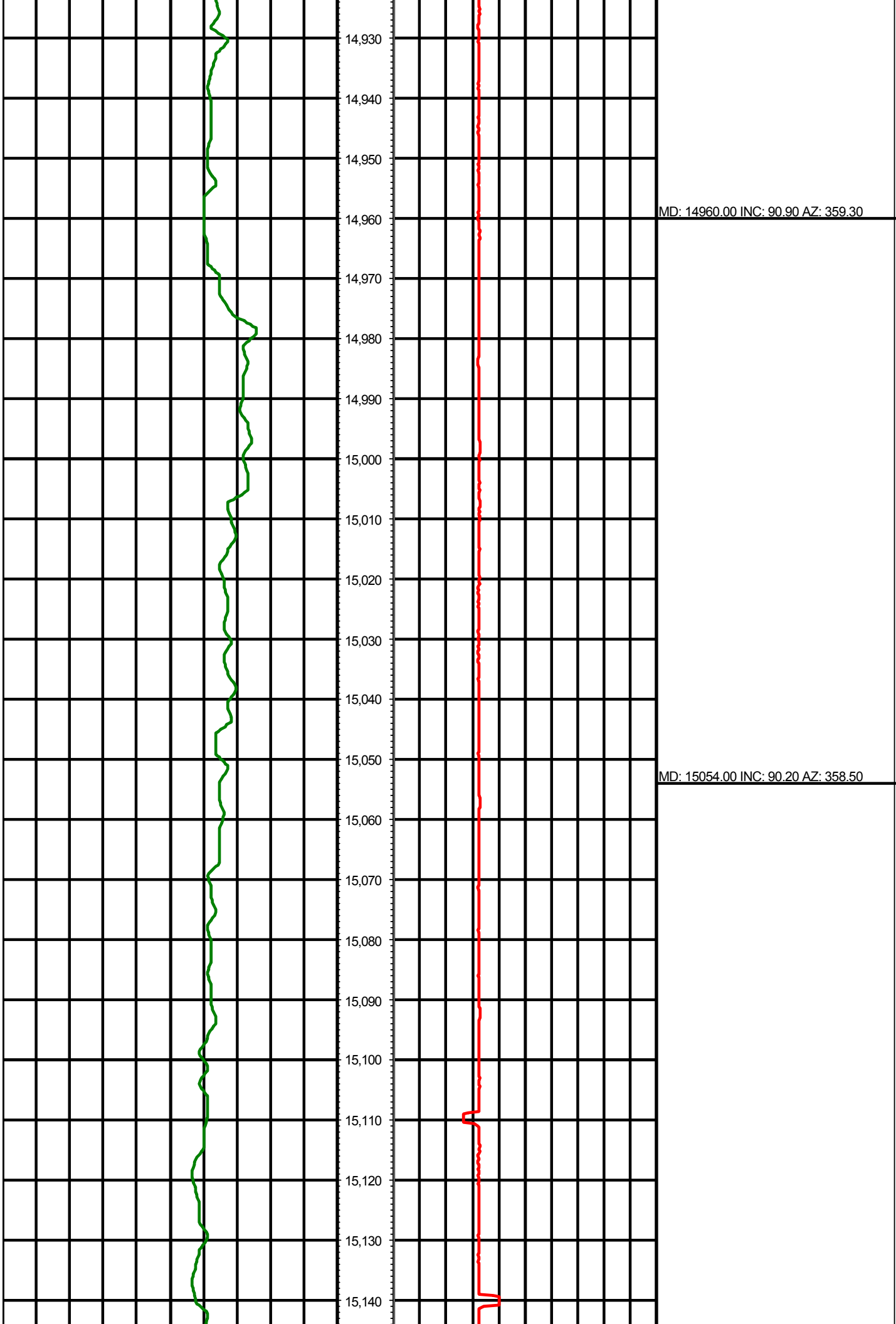
MD: 14013.00 INC: 89.50 AZ: 357.90

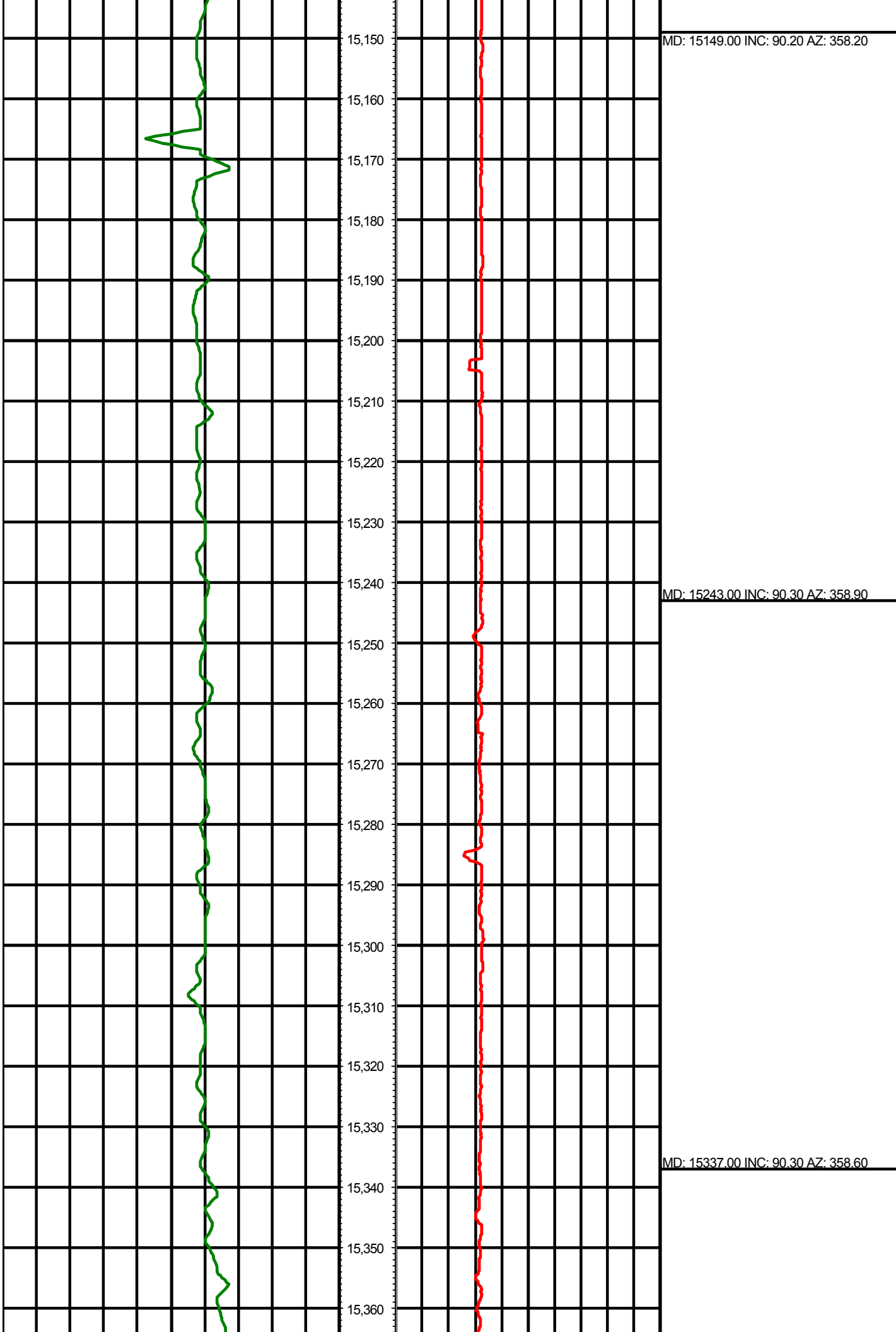




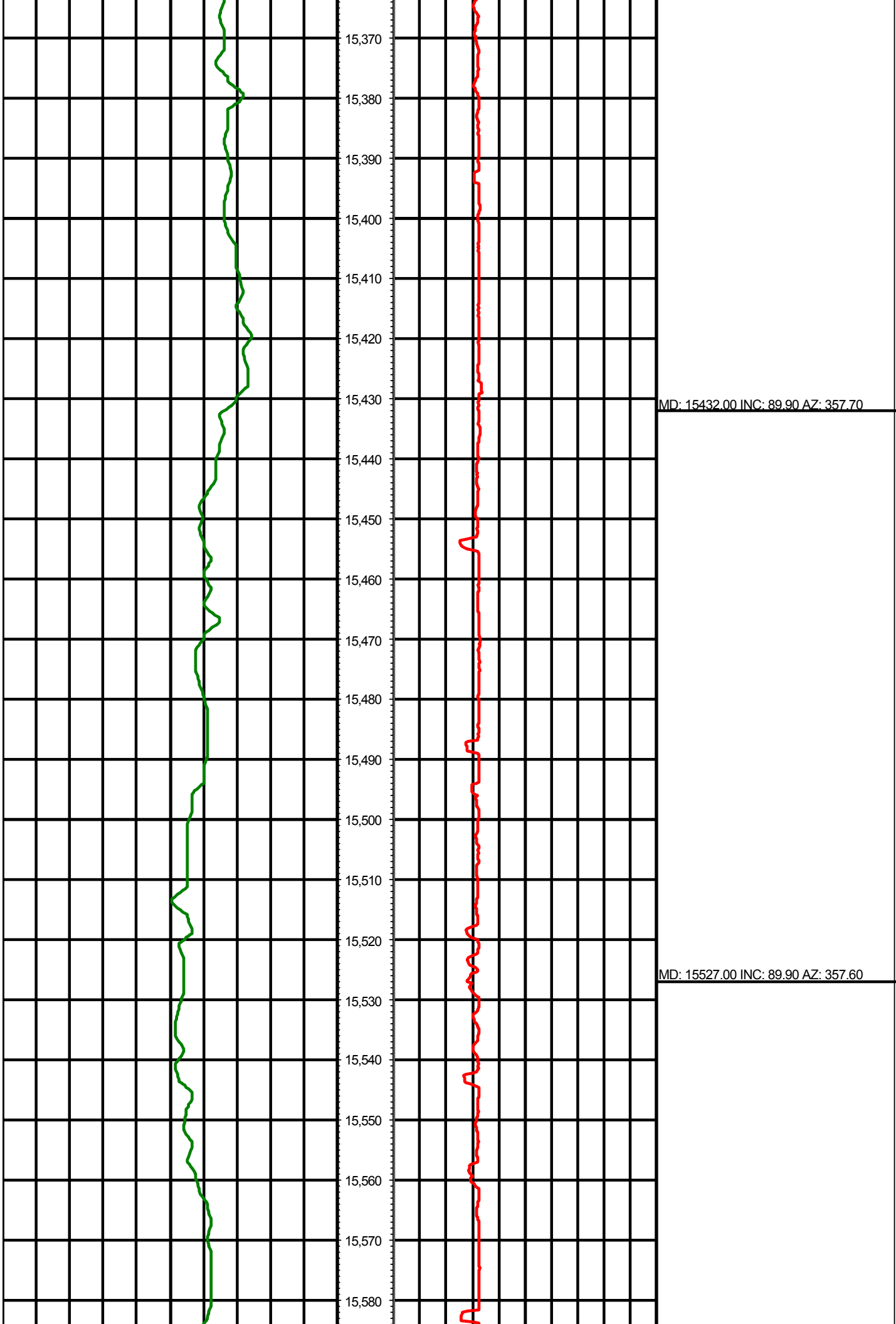


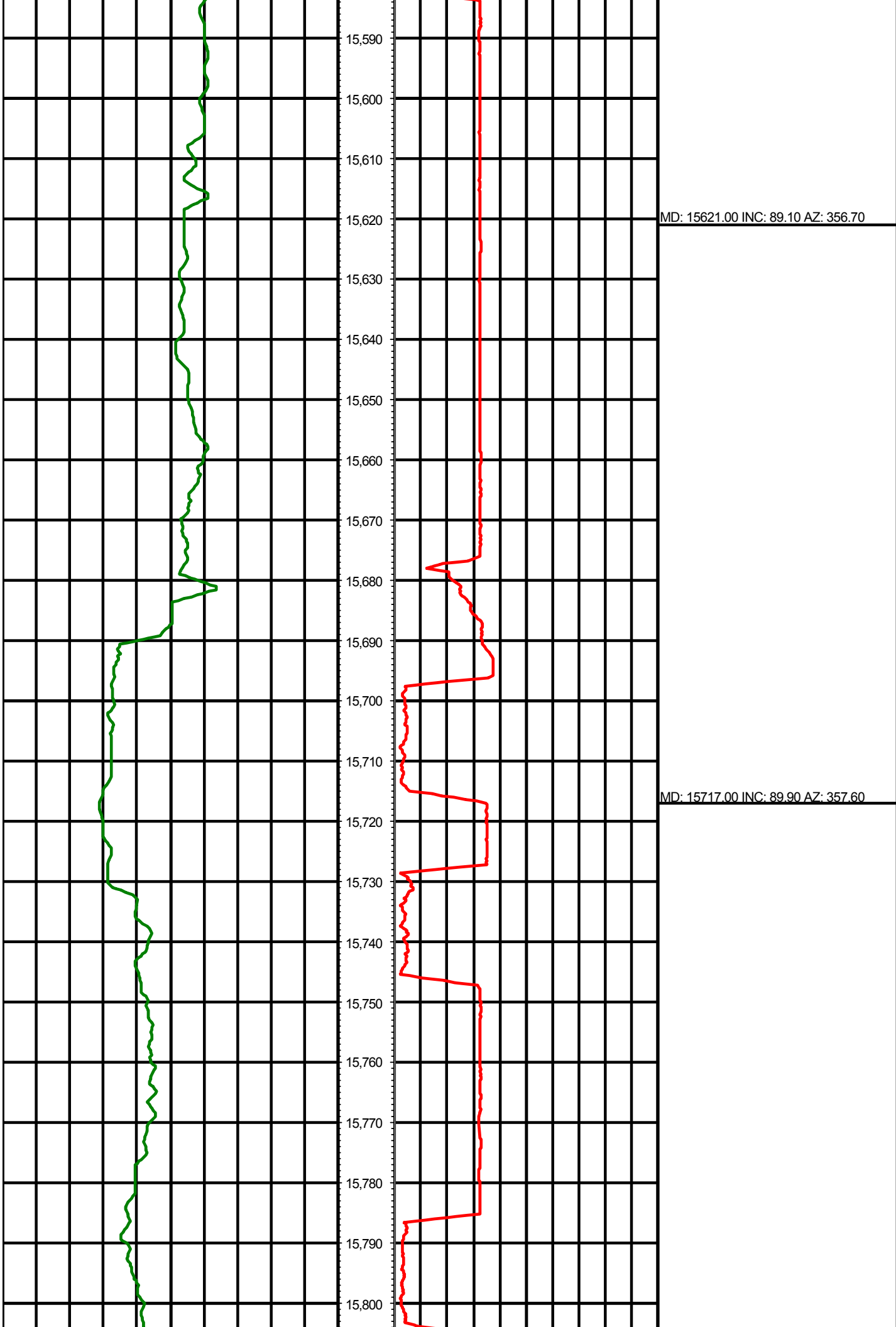


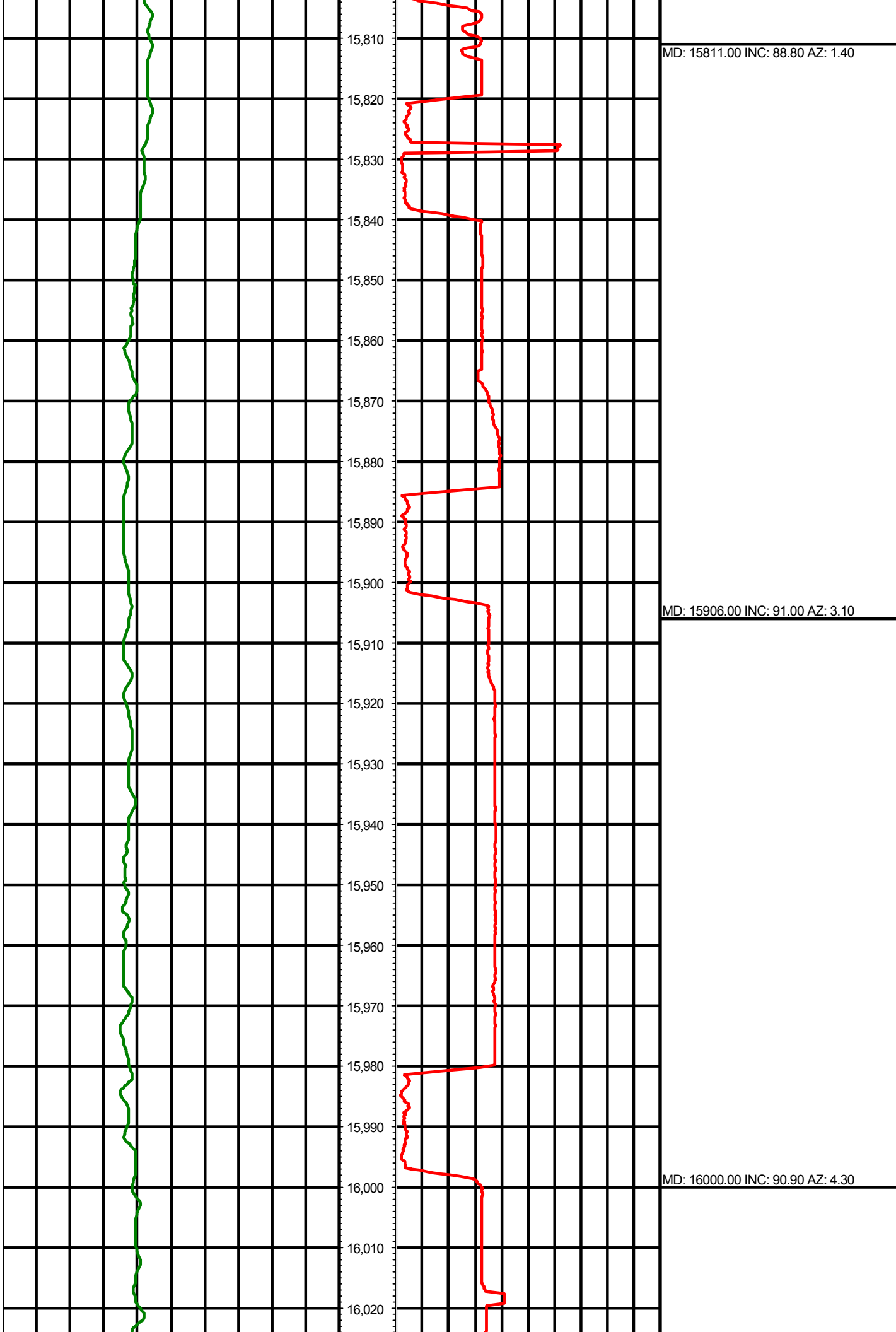


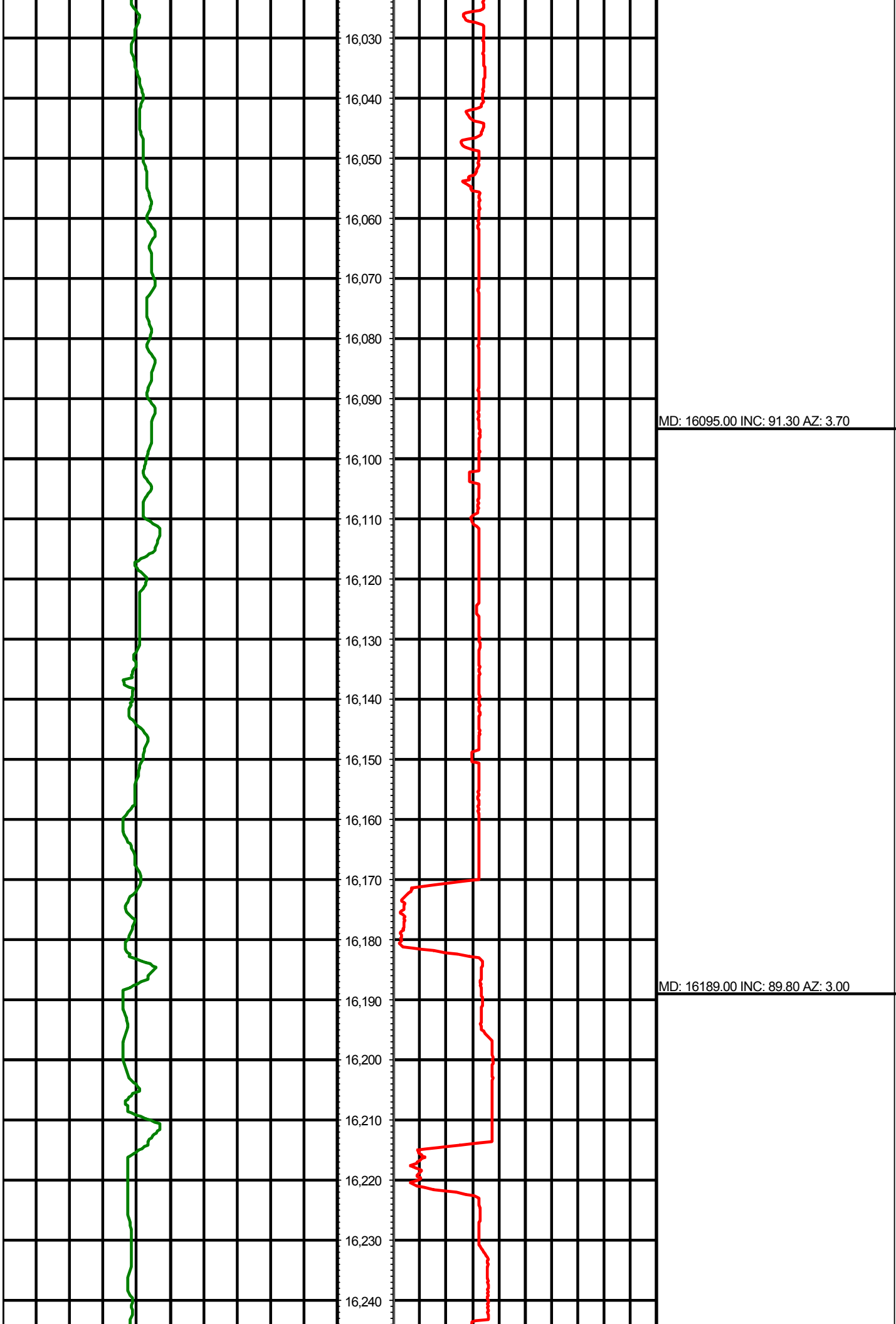


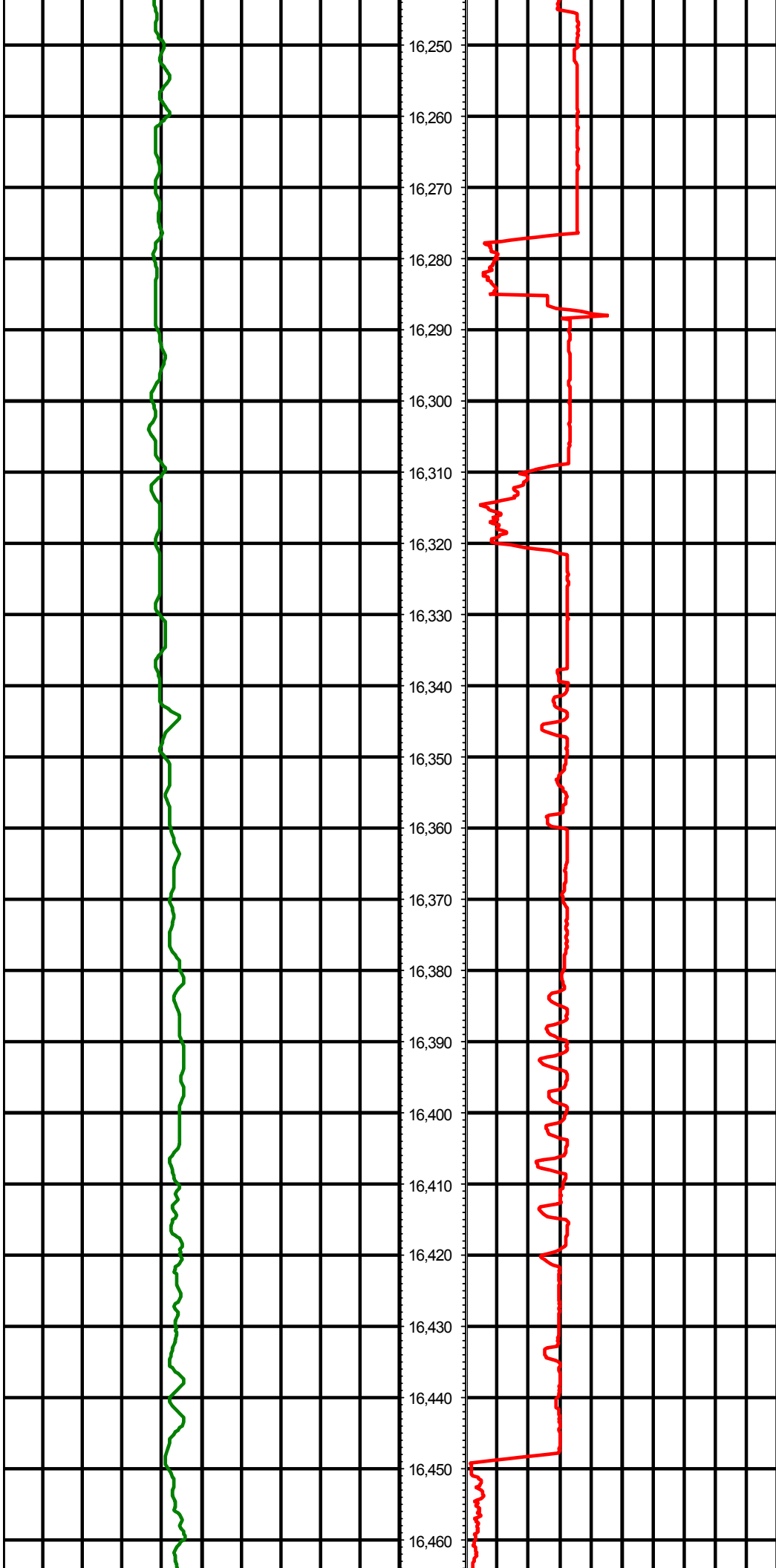






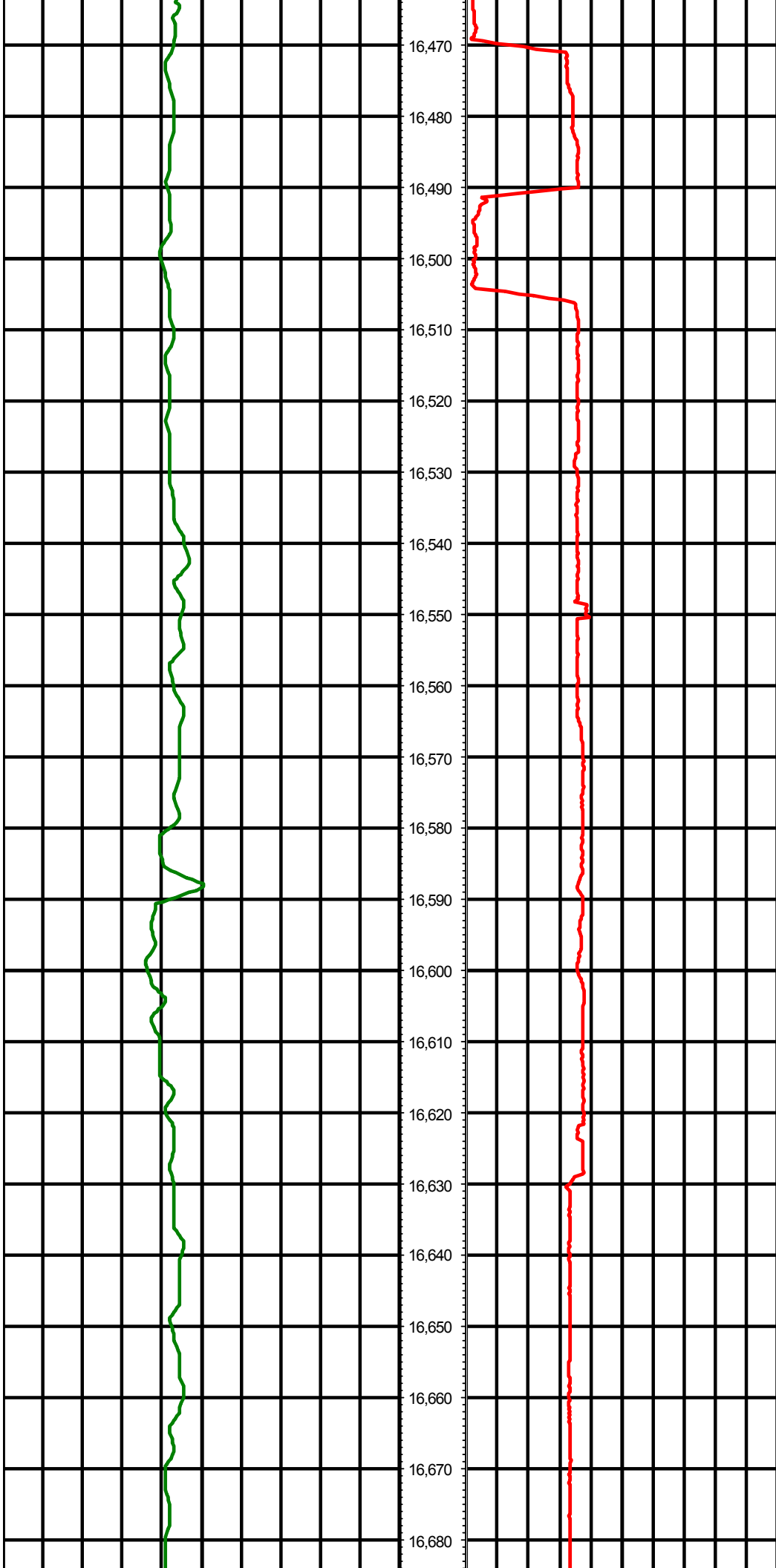






MD: 16283.00 INC: 90.50 AZ: 3.20

MD: 16378.00 INC: 90.00 AZ: 2.90



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MD: 16473.00 INC: 90.30 AZ: 5.00

MD: 16567.00 INC: 91.00 AZ: 6.00

MD: 16661.00 INC: 90.90 AZ: 5.60

