



**BAKER
HUGHES**

INTEQ

Memory and Realtime Log

Multiple Propagation Resistivity
Gamma Ray

Scale:

Company: Anadarko

1:240

Well: RELIGE 29C-9HZ

Measured Depth

Field: WELD COUNTY

Region: Continental US Country: United States

Status:

Final Print

Surface Location:

Latitude: 40° 10' 24.096" N

Longitude: 104° 40' 37.315" W

Other Services:
Directional
VSS

API Number:

05-123-36185-00

SEC: 4

TWN: 2N

RGE: 65W

Permanent Datum (P.D.): Ground Level

Elevation: 4869.00 ft.

Elevations:
N/A

Log Measured From: Rig Floor

17.00 ft. Above P.D.

KB: 4886.00 ft.
DF: 4889.00 ft.
GL:

Depth Reference: Driller's Depth

Interval Logged

Dates

Magnetic Field Reference

Top: 6658.0 ft. Date From: 19/Dec/12 Dip Angle: 66.96° Azi Reference North: True

Bottom: 12161.0 ft. Date To: 28/Dec/12 Total Mag to Reference

Spud Date: 18/Dec/12 Field Strength: 52872.0 nT North Correction: 8.63°

Borehole Record

Casing Record

Hole Size	From	To	Size	Weight	From	To
13.500 in.	Surface	921.0 ft.	9.625 in.	36.00 lb/ft	Surface	912.0 ft.
8.750 in.	921.0 ft.	7635.0 ft.	7.000 in.	26.00 lb/ft	Surface	7611.0 ft.
6.125 in.	7635.0 ft.	12161.0 ft.				

Mud Record

Deviation Record

Type	From	To	Hole Size	Interval	Inc / Az (Start)	Inc / Az (End)
Water Based Mud	Surface	7635.0 ft.	13.500 in.	921.0 ft.	0.2° / 317.2°	1.4° / 148.1°
			8.750 in.	6714.0 ft.	1.4° / 148.1°	85.2° / 181.6°
			6.125 in.	4526.0 ft.	85.2° / 181.6°	89.8° / 179.7°
					/	/
					/	/
					/	/
					/	/

Acquisition System Software Version

Other

Advantage	2.2003	Rig / Contractor:	Xtreme 6	/ Xtreme Drilling
PLATS	6.4.1.34	Job No:	5126907	
		District / Unit:	RMD	/ D&E

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Log Run Summary

LWD Run No.	BHA Run No.	Bit Run No.	Bit Size (in.)	Bit Type	Bit Gauge Length (in.)	Assembly Type	Logged Interval		Bit Depth Interval		Date / Time		Circ. Time (hrs.)
							Top (ft.)	Bottom (ft.)	From (ft.)	To (ft.)	Start	End	
1	1	1	8.750	PDC	0.500	Steerable	N/A	N/A	921.0	6700.0	19/Dec/2012 02:10	20/Dec/2012 07:07	22.7
2	2	2	8.750	PDC	0.500	Steerable	6658.0	7598.0	6700.0	7635.0	20/Dec/2012 22:16	21/Dec/2012 17:44	27.4
3	3	3	6.125	PDC	0.500	Steerable	7598.0	12112.0	7635.0	12161.0	23/Dec/2012 21:20	25/Dec/2012 23:48	76.2

Crew

Name	Arrive	Depart	Name	Arrive	Depart	Name	Arrive	Depart
	Wellsite	Wellsite		Wellsite	Wellsite		Wellsite	Wellsite
Gregory Wheeler Jr.	17/Dec/2012	28/Dec/2012	Donald Delay	17/Dec/2012	28/Dec/2012			

Mud Properties Record

Date / Time		LWD Run No.	Measured Depth (ft.)	Mud Type	Density (ppg)	Viscosity (cp)	pH	Fluid Loss (cc)	Oil / Water	Source	Total Chlorides (ppm)	K+ (%)
19/Dec/2012	14:00	1	3684.0	Water Based Mud	8.4	27	8.0	N/C	0.0 / 100	Suction	1400	N/A
19/Dec/2012	23:00	1	5397.0	Water Based Mud	8.5	28	8.0	N/C	0.0 / 100	Suction	1500	N/A
20/Dec/2012	06:45	1	6661.0	Water Based Mud	9.6	40	9.0	7.2	0.0 / 93	Suction	1900	N/A
20/Dec/2012	15:45	1	6700.0	Water Based Mud	9.8	41	9.0	7.2	0.0 / 92	Suction	1900	N/A
20/Dec/2012	22:50	2	6743.0	Water Based Mud	10.0	44	9.0	4.8	0.5 / 90.5	Suction	2000	N/A
21/Dec/2012	06:50	2	7254.0	Water Based Mud	10.0	41	9.0	5.6	1.0 / 91	Suction	2100	N/A
21/Dec/2012	16:00	2	7624.0	Water Based Mud	10.1	40	9.0	4.8	1.0 / 90	Suction	1900	N/A
21/Dec/2012	22:45	2	7633.0	Water Based Mud	10.2	41	8.5	4.8	1.0 / 90	Suction	1900	N/A
22/Dec/2012	17:00	3	7635.0	Water Based Mud	9.5	37	9.5	8.0	0.5 / 92.5	Pit	3000	N/A
22/Dec/2012	23:00	3	8032.0	Water Based Mud	9.8	40	9.5	7.2	0.5 / 92.5	Suction	2300	N/A
23/Dec/2012	07:30	3	9403.0	Water Based Mud	9.5	43	9.5	7.2	0.5 / 92.5	Suction	2000	N/A
23/Dec/2012	14:00	3	10085.0	Water Based Mud	9.6	38	9.0	7.2	0.5 / 92.5	Suction	2000	N/A
23/Dec/2012	22:30	3	10745.0	Water Based Mud	9.7	40	9.0	6.0	1.0 / 92.0	Suction	2200	N/A
24/Dec/2012	07:00	3	11235.0	Water Based Mud	9.5	39	8.5	6.0	1.0 / 93.4	Suction	1800	N/A
24/Dec/2012	14:00	3	11626.0	Water Based Mud	9.5	41	8.5	5.2	1.0 / 93.0	Suction	1900	N/A
24/Dec/2012	23:00	3	12116.0	Water Based Mud	9.6	43	8.5	5.2	1.0 / 93.0	Suction	1800	N/A

Mud Resistivity Record

Date / Time		LWD Run No.	Measured Depth (ft.)	Surface Temp (deg F)	Surface			BHCT	Downhole		
					Rm (ohm.m)	Rmf (ohm.m)	Rmc (ohm.m)	(deg F)	Rm @ BHCT (ohm.m)	Rmf @ BHCT (ohm.m)	Rmc @ BHCT (ohm.m)
23/Dec/2012	20:41	3	7635.0	76	0.86	N/A	N/A	207	0.33	N/A	N/A
23/Dec/2012	21:35	3	7675.0	75	0.94	N/A	N/A	196	0.37	N/A	N/A
24/Dec/2012	06:44	3	9141.0	74	0.89	N/A	N/A	212	0.32	N/A	N/A

Mnemonics

Curve	Description	Units
CACHM	Conductivity (AT) (LS) 2 MHZ – Compensated Borehole Corrected	mho/o
GRAM	Gamma Ray Apparent, 0.5 ft. Avg	API
GRAX	Gamma Ray Apparent, 0.5 ft. Avg	API
GRIM	Gamma Ray Data Density	points
GRIX	Gamma Ray Data Density	points
RACHM	Resistivity, Attenuation (LS) 2 MHZ – Compensated Borehole Corrected	ohm.m
RACLM	Resistivity, Attenuation (LS) 400 kHz – Compensated Borehole Corrected	ohm.m
ROPA	Rate of Penetration, 3.0 ft. Avg	ft/hr
RPCHM	Resistivity Phase Difference (LS) 2 MHZ – Compensated Borehole Corrected	ohm.m
RPCLM	Resistivity, Phase Difference (LS) 400 kHz – Compensated Borehole Corrected	ohm.m
RPSIHM	Resistivity Slide Indicator	unitless
RPTHM	Time Since Drilled (RPCHM)	min

Equipment and Service Data

LWD Run No.	Tool	Serial Number	Measurement	Bit Offset (ft)	Max O.D. (in.)	Min I.D. (in.)
1	DIR	10427972	Directional	48.32	6.750	3.250
1	SRIG	12041110	Gamma	44.95	6.750	3.250
2	DIR	10427972	Directional	43.41	6.750	3.250
2	SRIG	12041110	Gamma	40.04	6.750	3.250
3	CS	10558669	-	74.91	4.843	2.569
3	BCPM	120400647	Telemetry	64.01	4.843	2.569
3	STAB	11853040	-	60.70	5.625	2.569
3	OTK	12127020	Directional	56.24	4.843	2.569
3	OTK	12127020	Resistivity	50.27	4.843	2.569
3	OTK	12127020	Gamma	43.08	4.843	2.569
3	OTK	12127020	Pressure	45.71	4.843	2.569
3	CS	12202693	-	37.79	4.843	2.569

Service and Tool Mnemonics

Mnemonic	Name	Description
BCPM	BCPM	Mud pulse telemetry and downhole tool power module
DIR	Directional	Wellbore directional survey
OTK	OnTrak	Propagation resistivity, propagation conductivity, gamma ray, directional, annular pressure, system memory and VSS
SRIG	Inclination and Gamma	Probe based gamma ray and inclination module
STAB	Stabilizer	Stabilizer assembly
CS	Closure Sub	BHA power ring isolator allowing insertion of inert sub into electrically powered BHA

Comments

- 1) Baker Hughes Inteq run 1 utilized 6 3/4 inch NaviTrak Services (VSS, Directional) behind an 8 3/4 inch bit and steerable assembly from 921 to 6700 ft MD (920.99 to 6633.91 ft TVD).
- 2) Baker Hughes Inteq run 2 utilized 6 3/4 inch NaviGamma Services (Gamma Ray, VSS, Directional) behind an 8 3/4 inch bit and steerable assembly from 6700 to 7635 ft MD (6633.91 to 7214.09 ft TVD).
- 3) Baker Hughes Inteq run 3 utilized 4 3/4 inch OnTrak Services (Multiple Propagation Resistivity, Gamma Ray, VSS, Directional) behind an 6 1/8 inch bit and steerable assembly from 7635 to 12161 ft MD (6633.91 to 7211.73 ft TVD).
- 4) A sliding indicator is shown to the right of track 2 as a heavy line. The indicator has been depth-shifted to the resistivity sensor offset to correspond with data acquired while sliding.
- 5) Depth measurements were obtained from a depth tracking system not supplied or operated by Baker Hughes. Due to the lack of control by Baker Hughes LWD logging engineers, depth calibrations and measurements could not be independently verified and the unverified depths as supplied to Baker Hughes are being used to present logging data.

Remarks

Number	Measured Depth (ft)	Hole Section (in.)	LWD Run No.	Remark
1	6700	8.750	2	The interval from 6658 to 7600 ft MD (6591.92 to 6633.91 ft TVD) contains no resistivity drilling data, because the OnTrak service was not used in this hole section.
2	8600	6.125	3	The interval from 8578 to 8652 ft MD (7215.00 to 7214.89 ft TVD) contains no logging data due to problems with OnTrak memory during that interval.

3

12100

6.125

3

The interval from 12112 to 12161 ft MD (7211.60 to 7211.33 ft TVD) contains no logging data due to sensor to bit offset at the end of the run.



Company : Anadarko

Well : REIGLE 29C-9HZ

Interval : 6650.00 - 12200.00 feet

Created : 12/28/2012 12:17:25 AM

INTEQ

MD feet 1:240

6700

> Run 2

Res PD LS 2MHz Corr RPCHM

0.2

200

ohm.m

Res PD LS 400kHz Corr RPCLM

0.2

200

ohm.m

Res AT LS 2MHz Corr RACHM

0.2

200

ohm.m

Res AT LS 400kHz Corr RACLM

0.2

200

ohm.m

Con AT LS 2MHz Corr CACHM

100

0

mmho/m

Time Since Drilled RPTHM

0

600

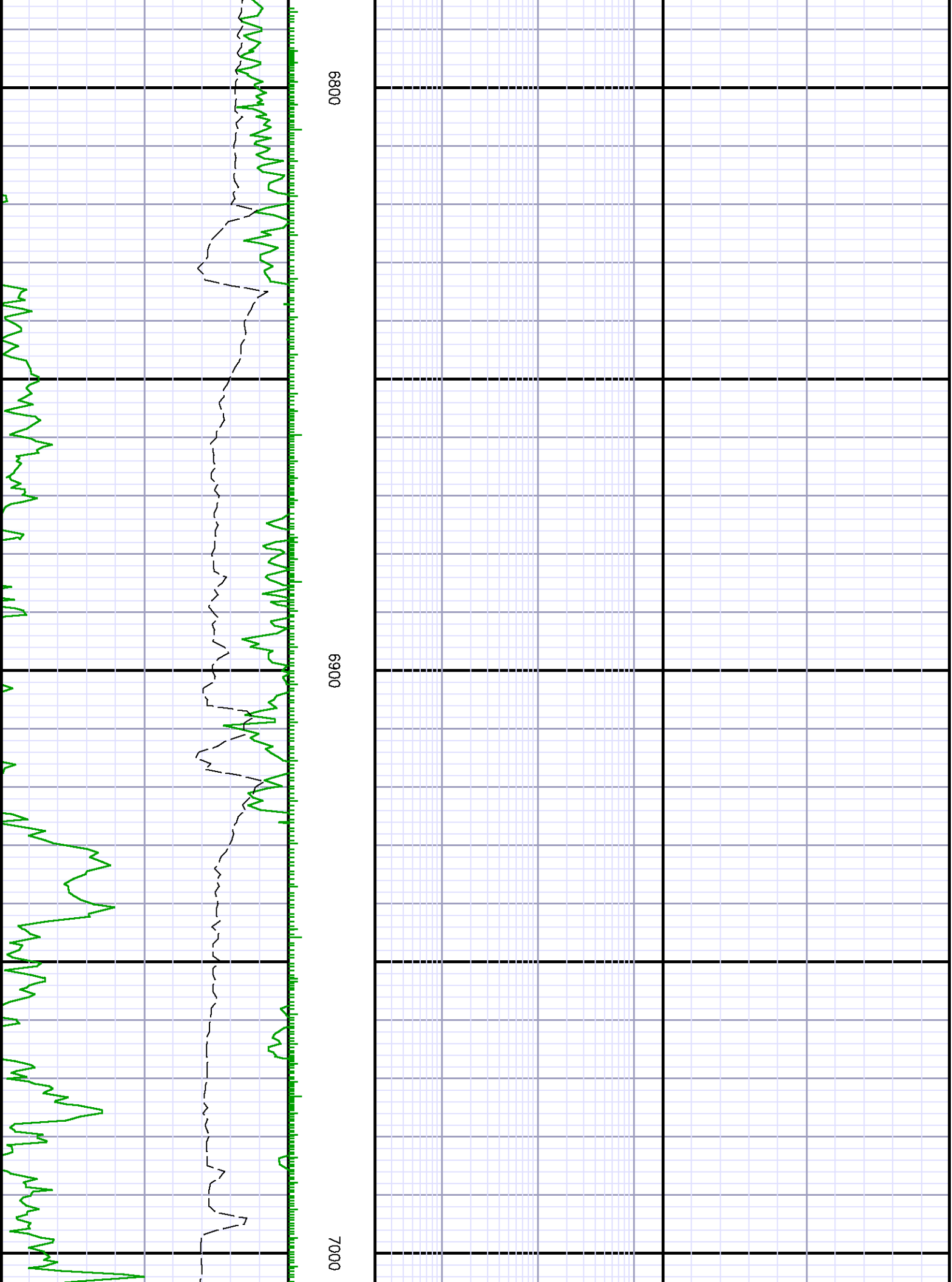
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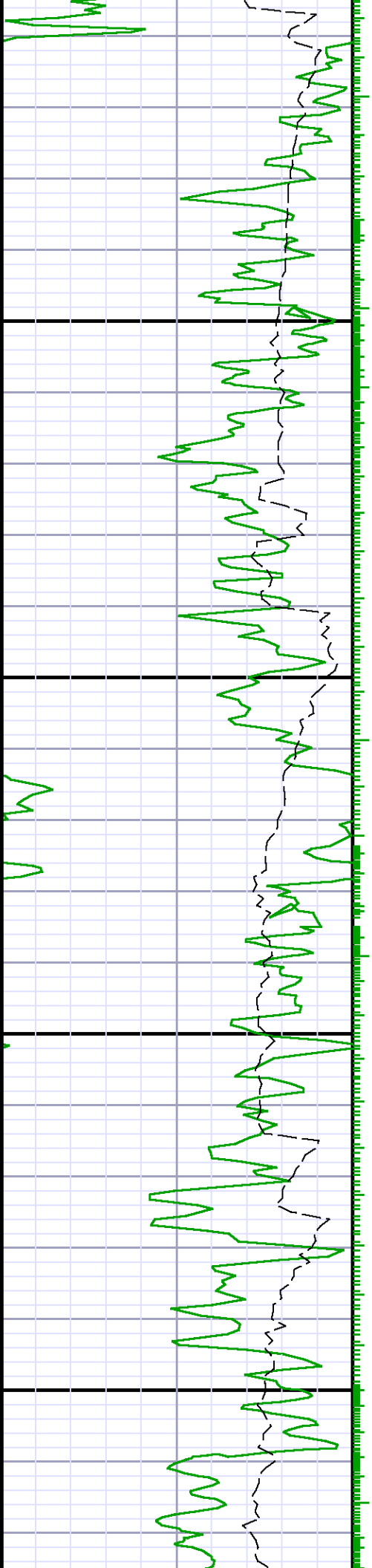
GRAX

GRIX

ROPA

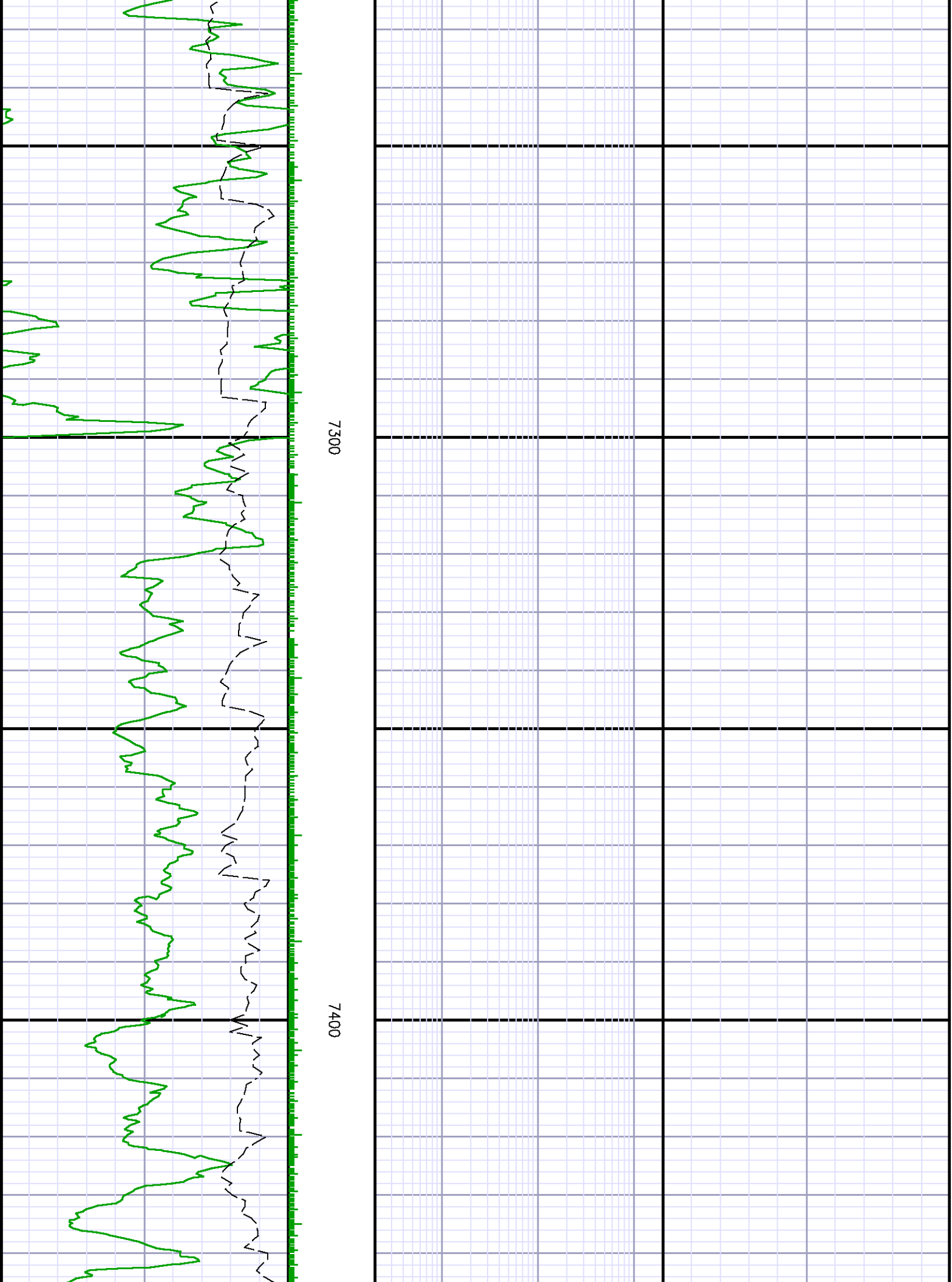
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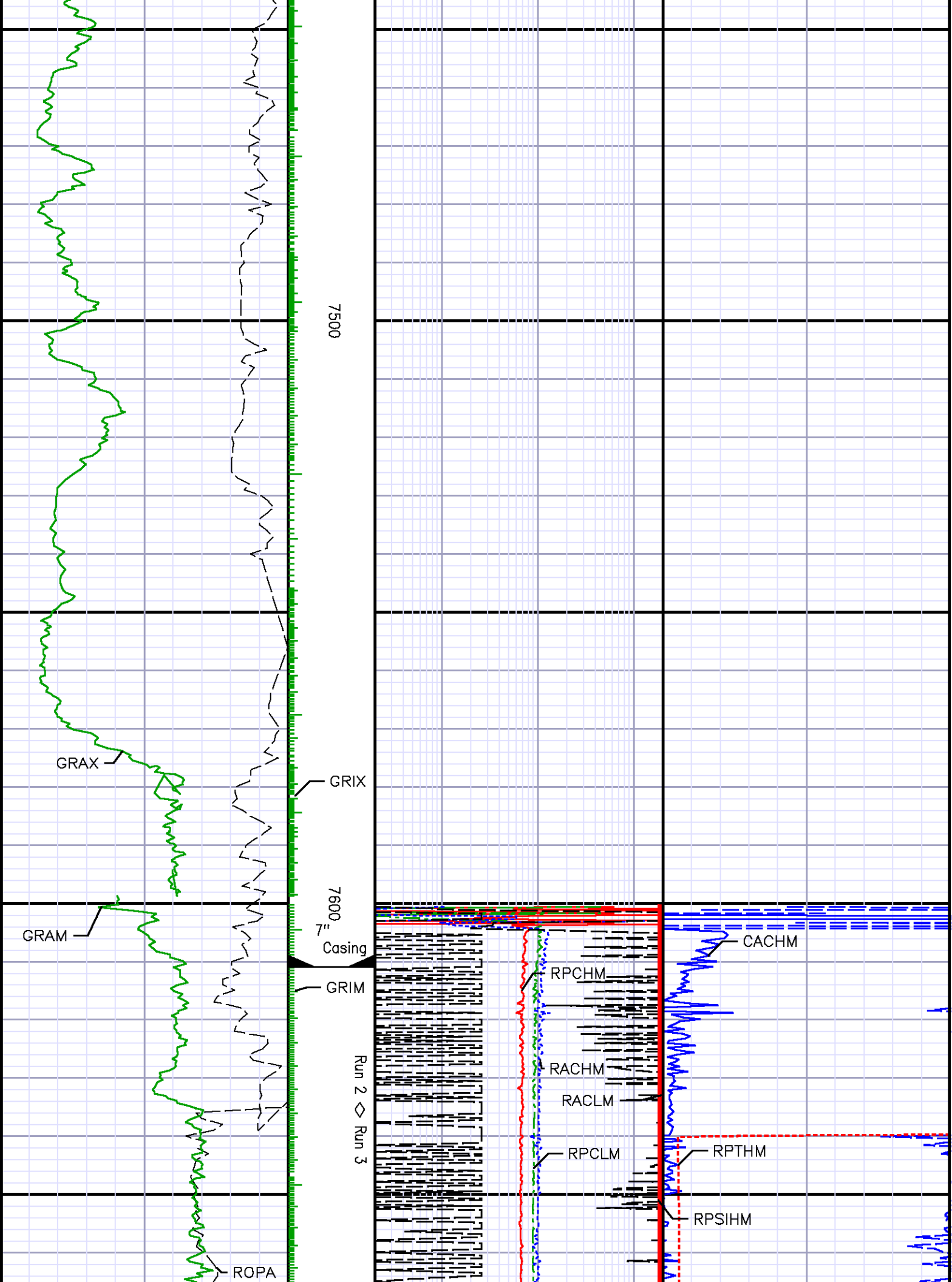


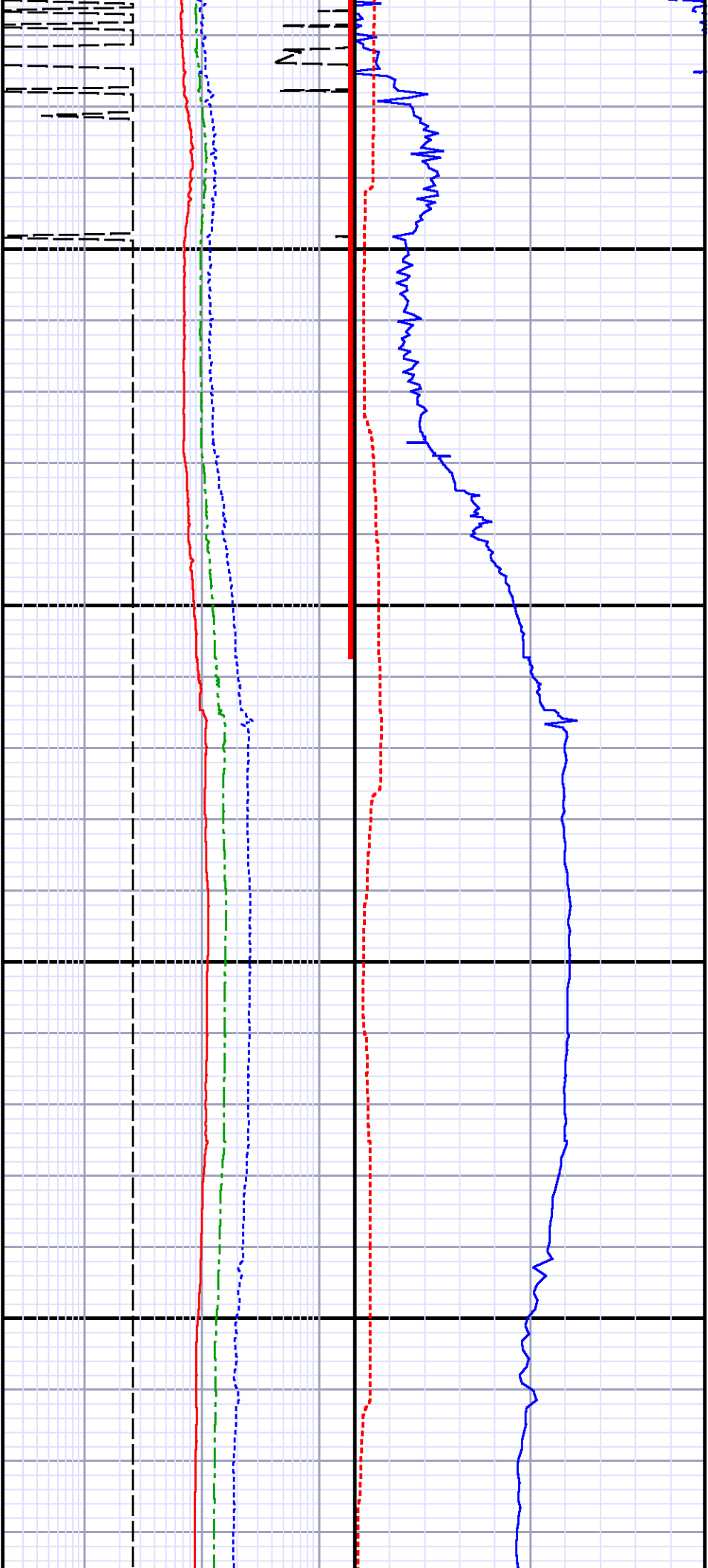


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7200

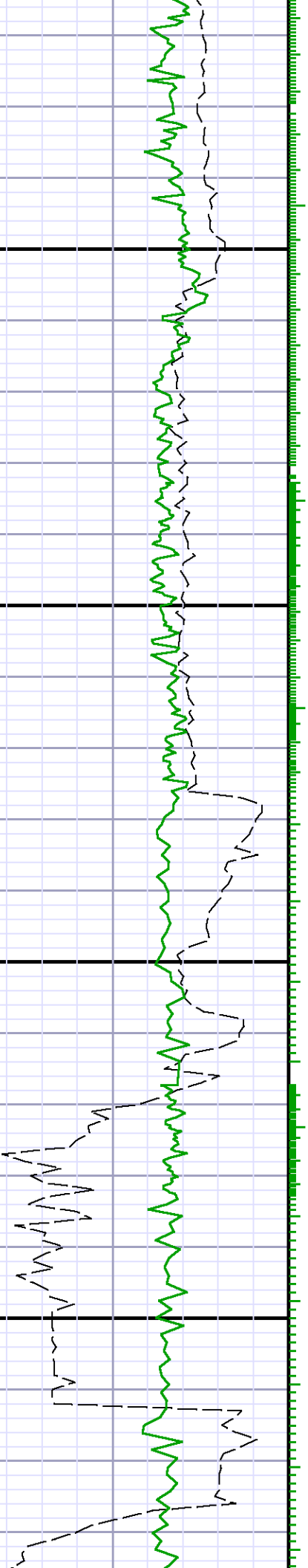


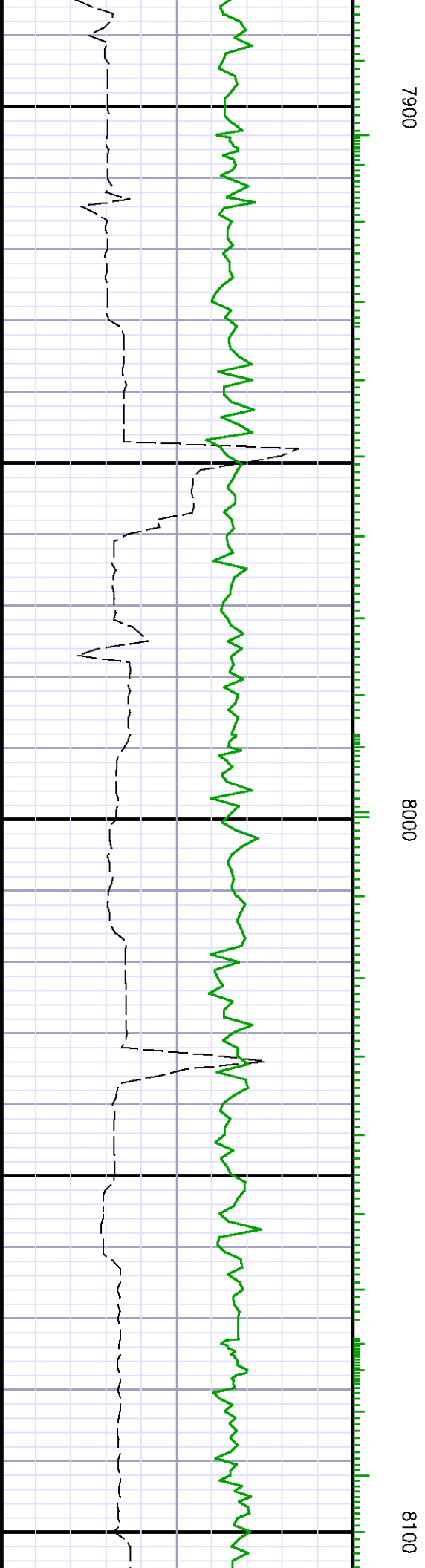
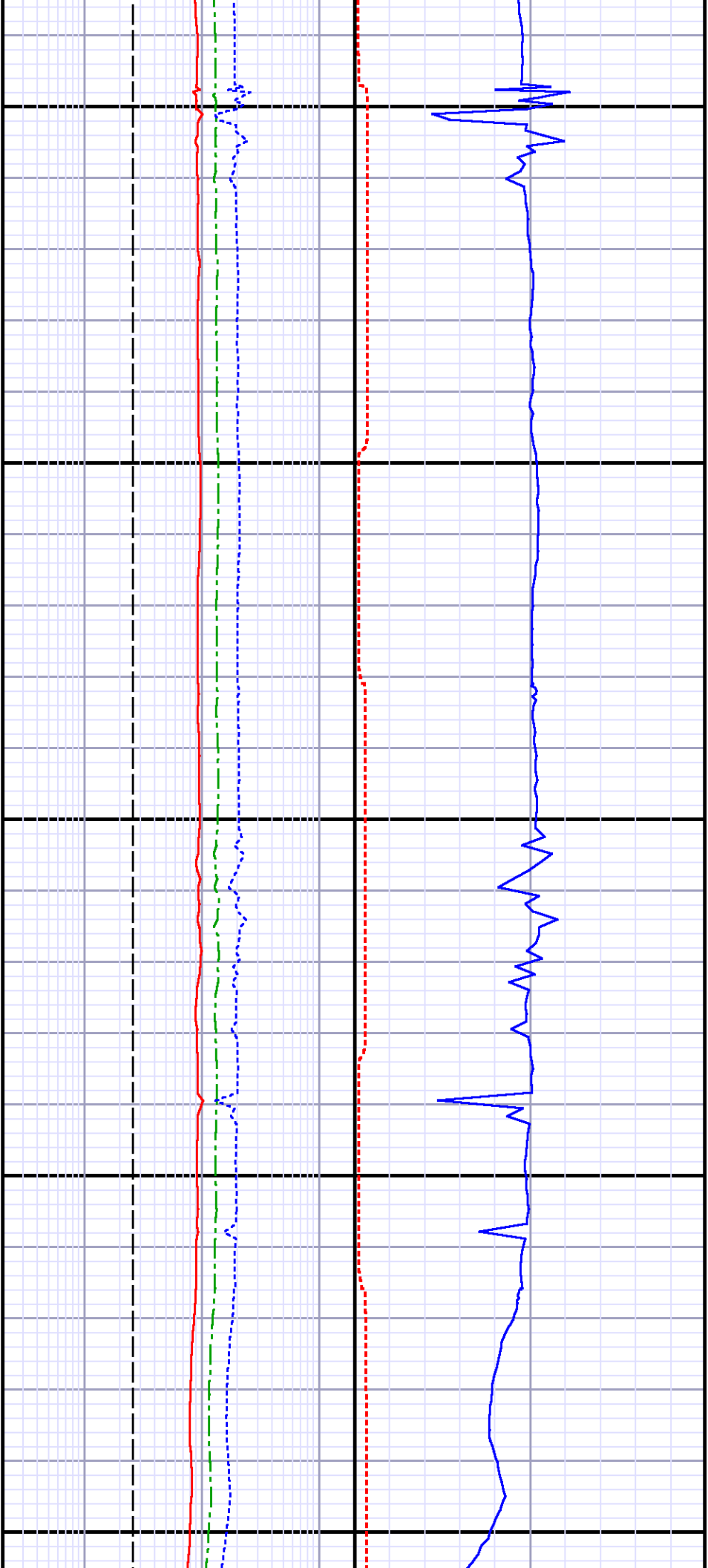


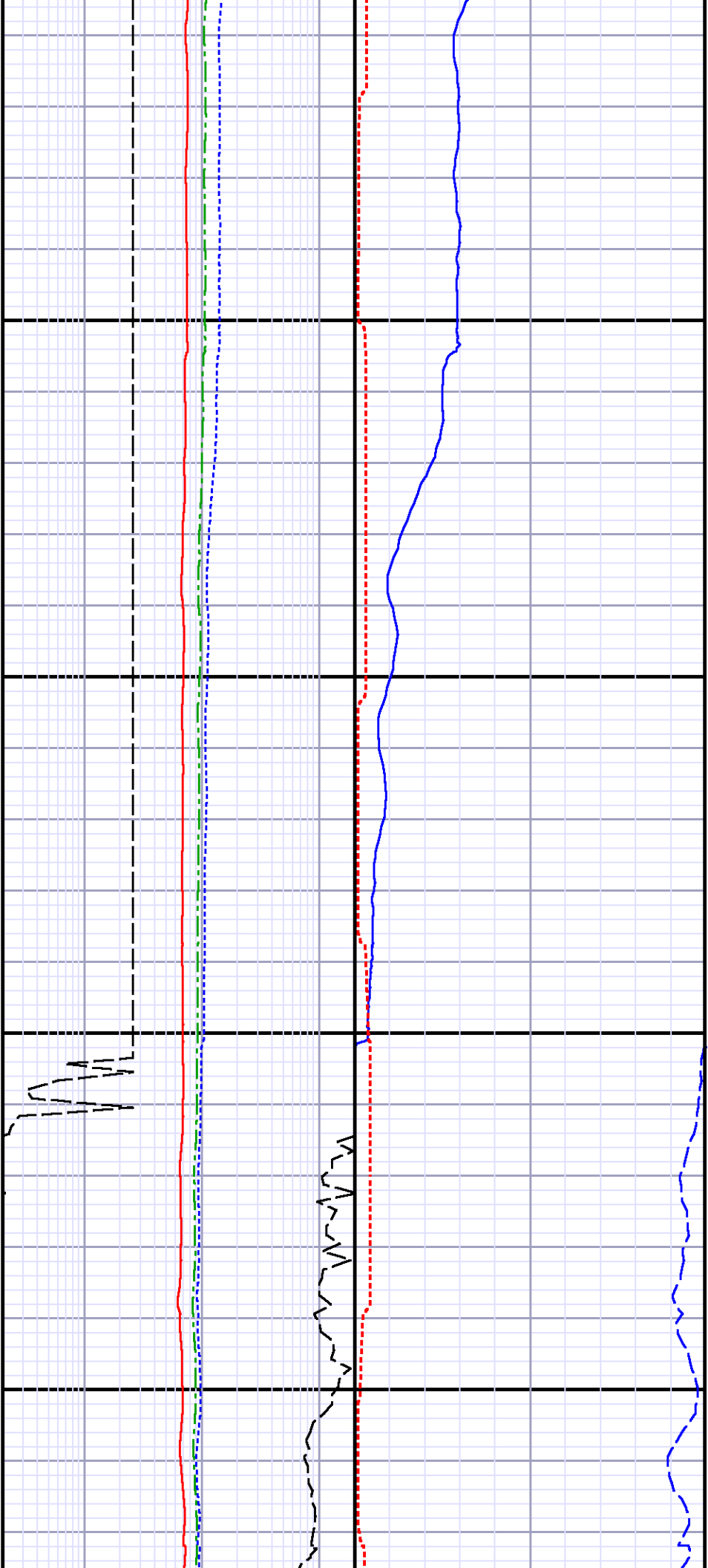


7700

7800

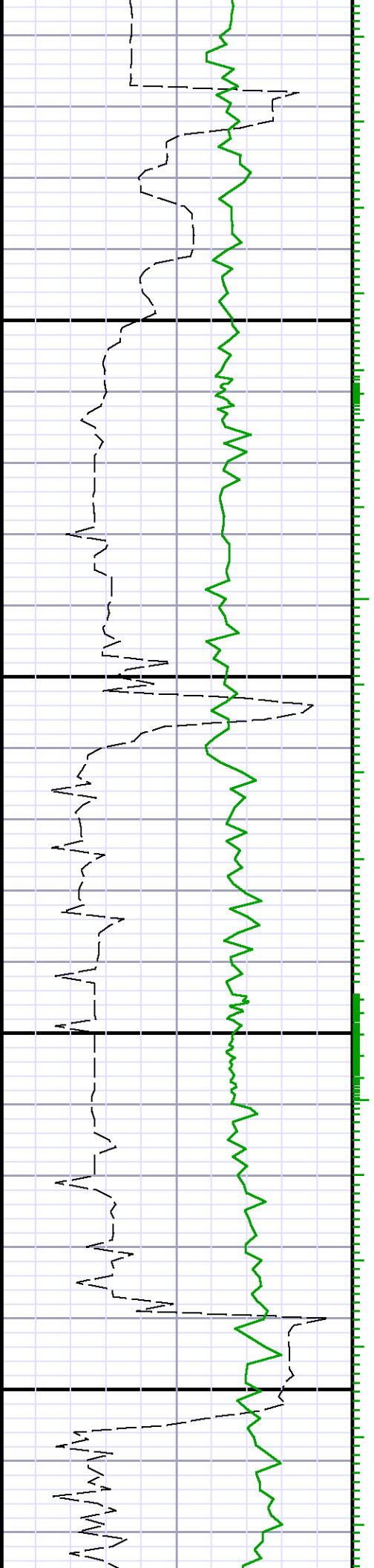


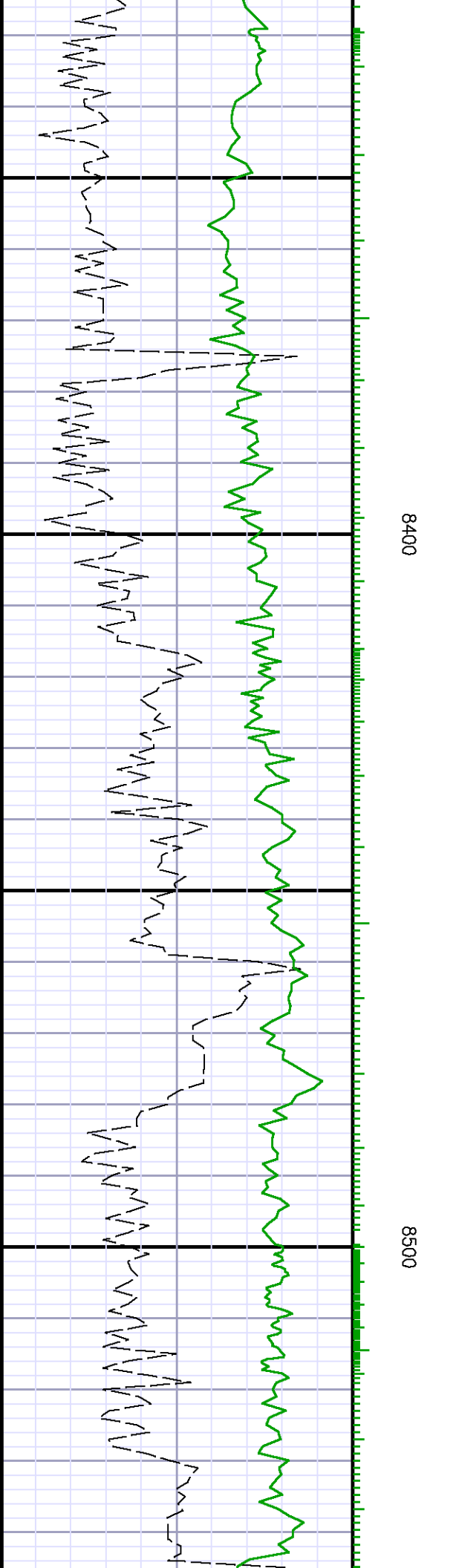
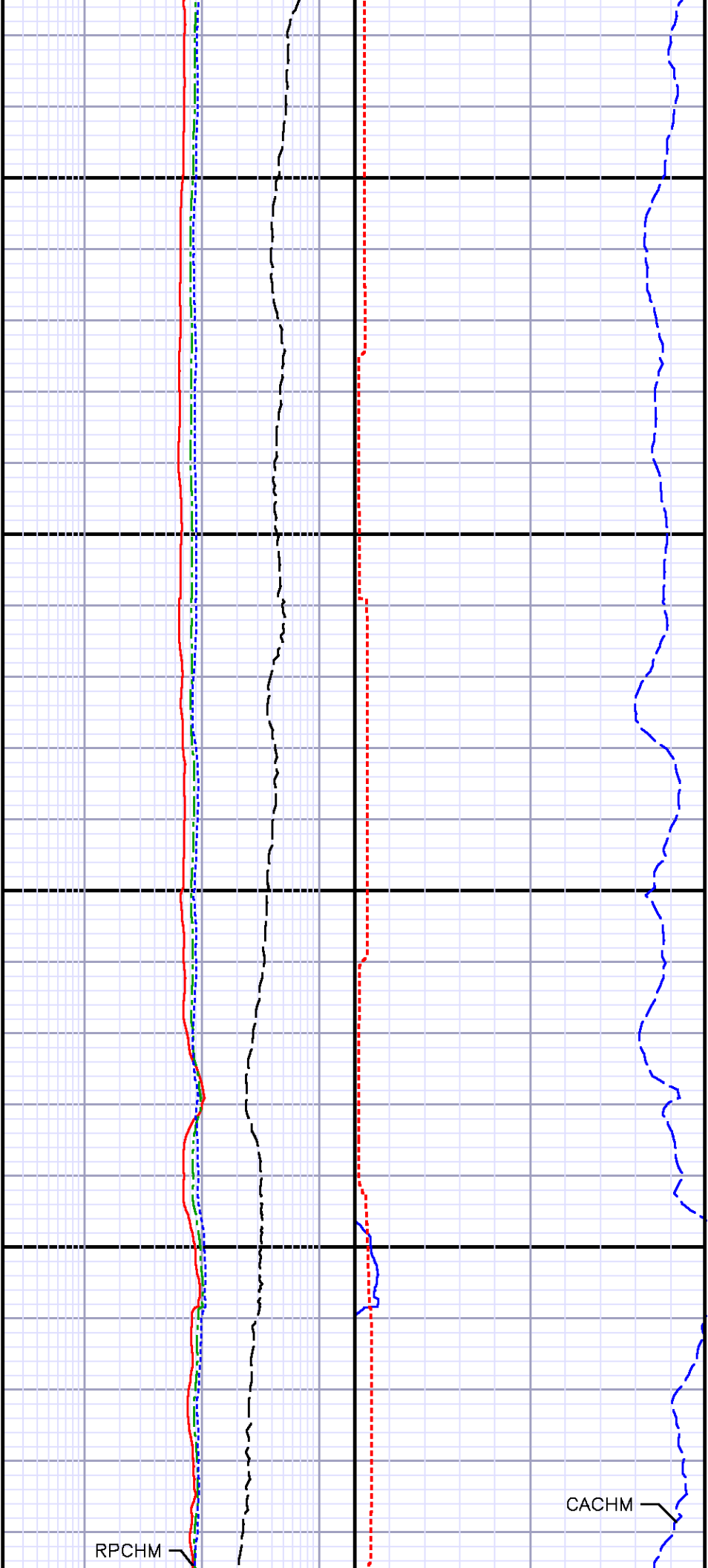


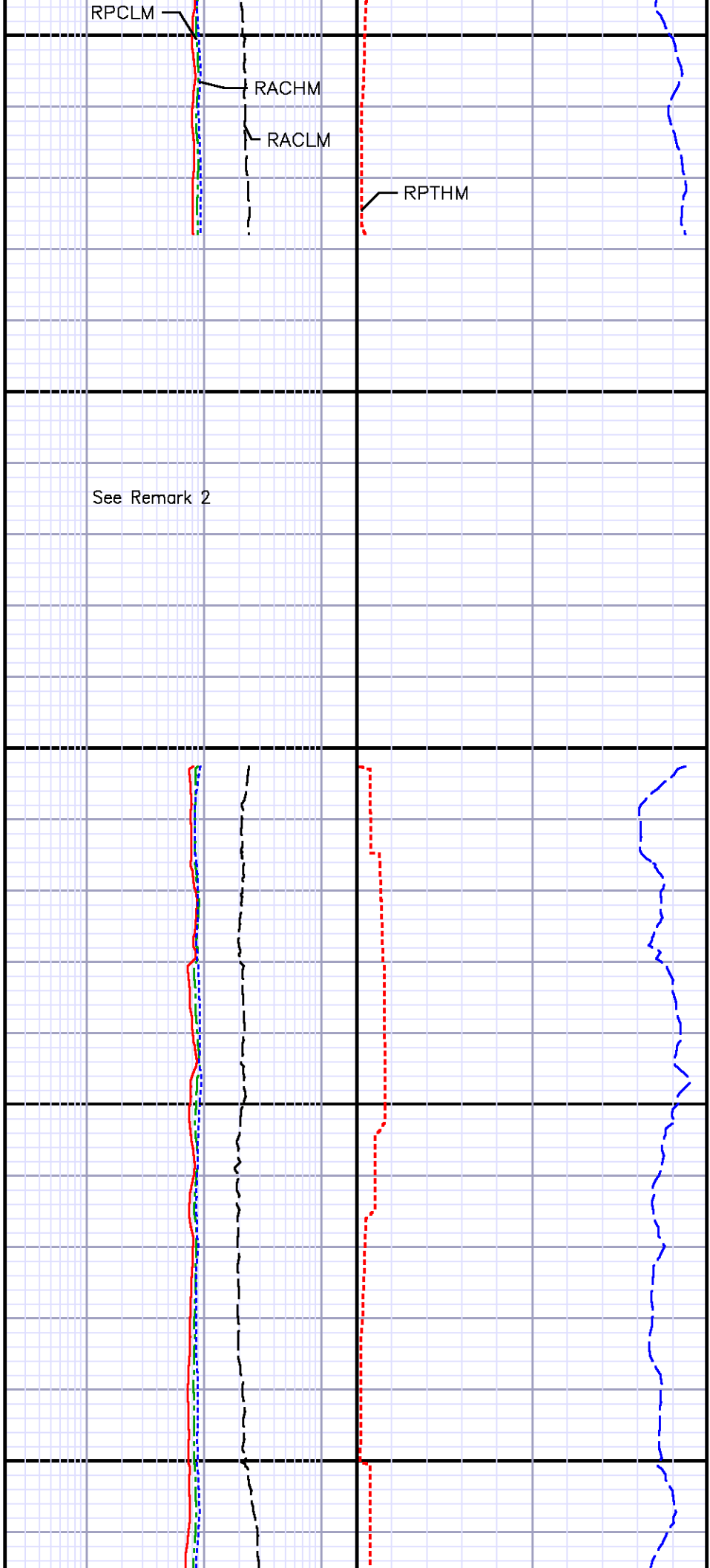
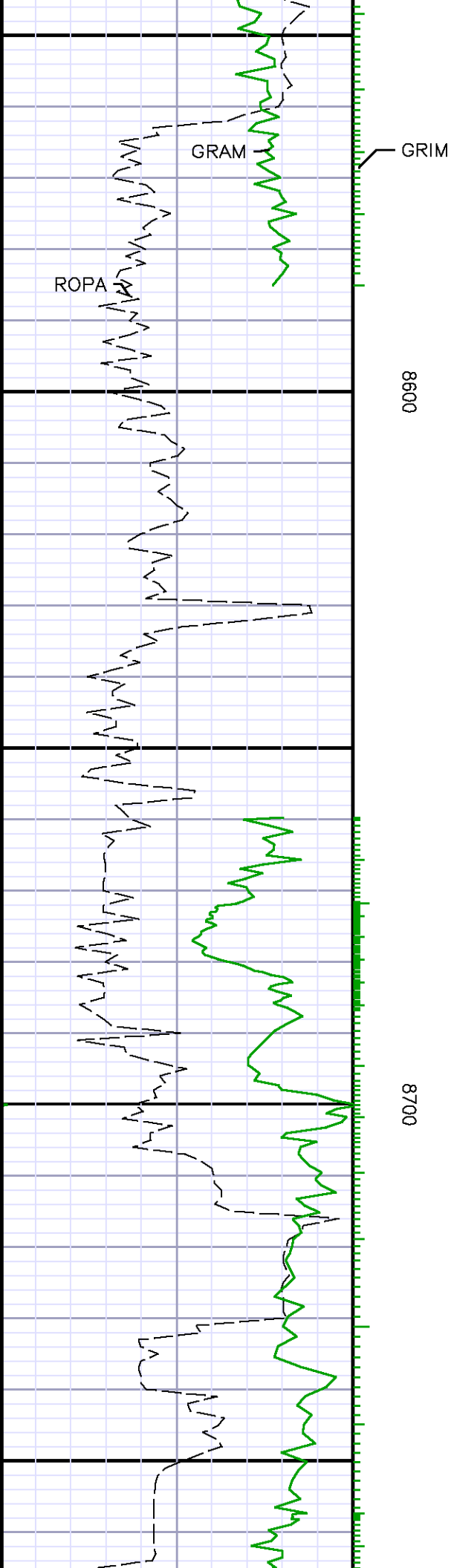


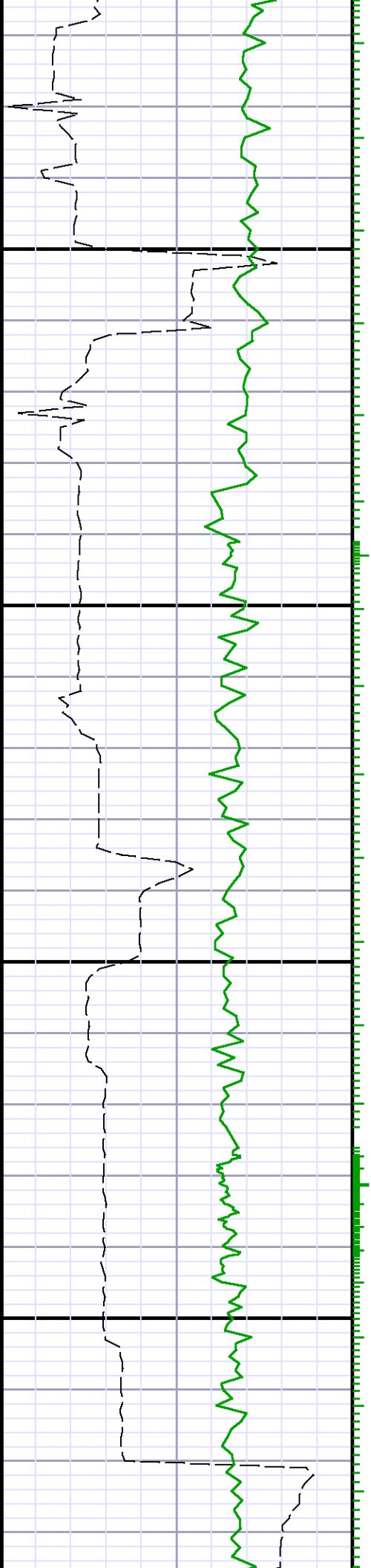
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8300





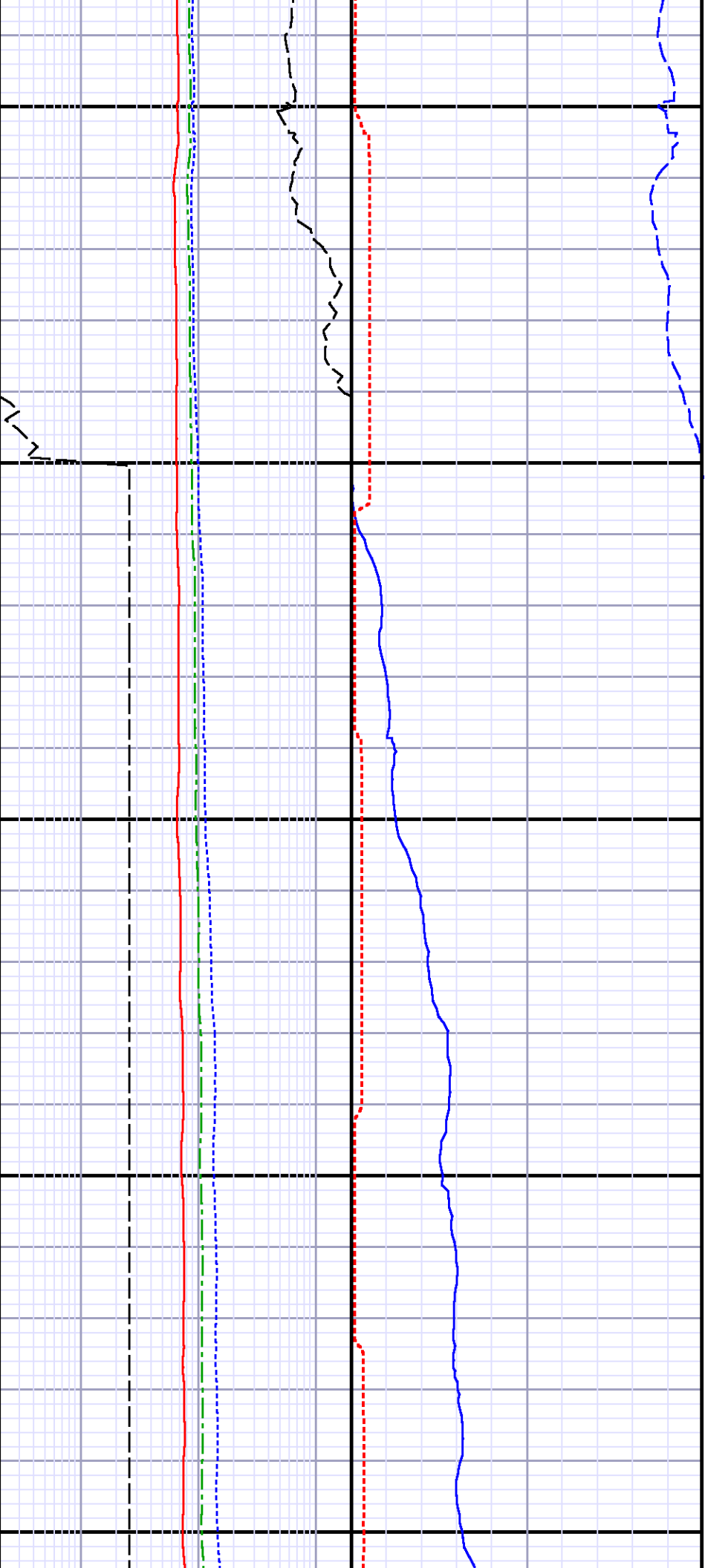




8800

8900

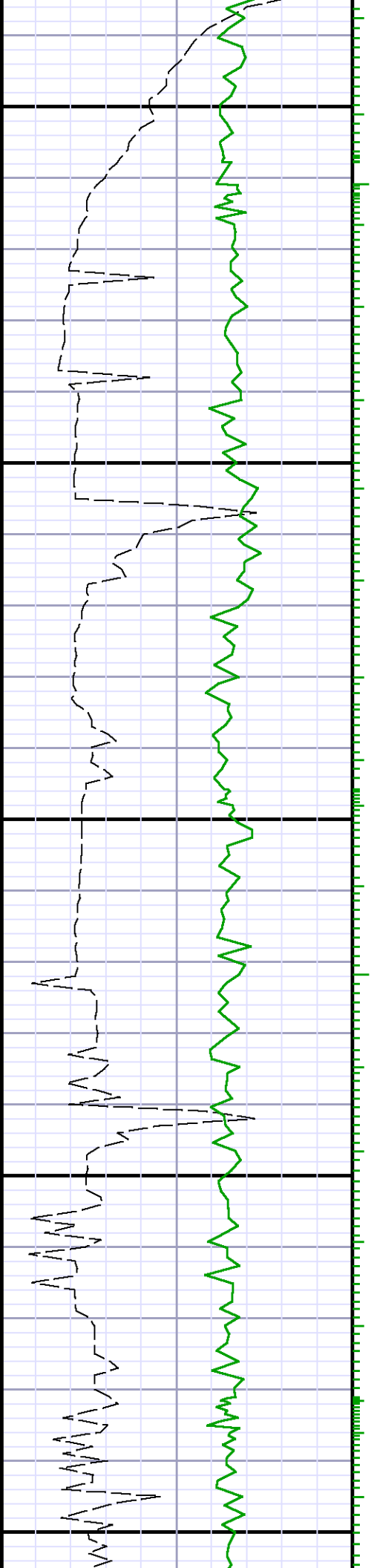


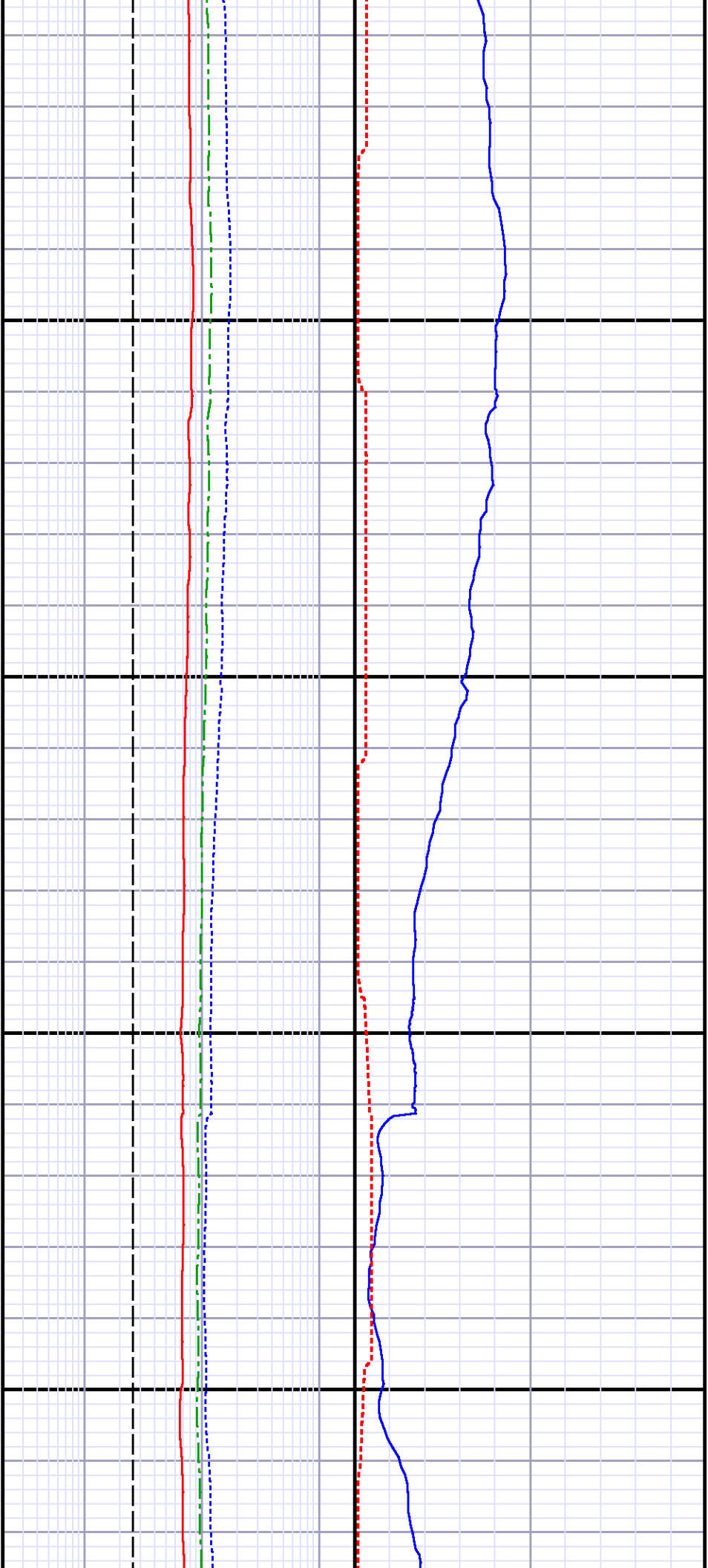


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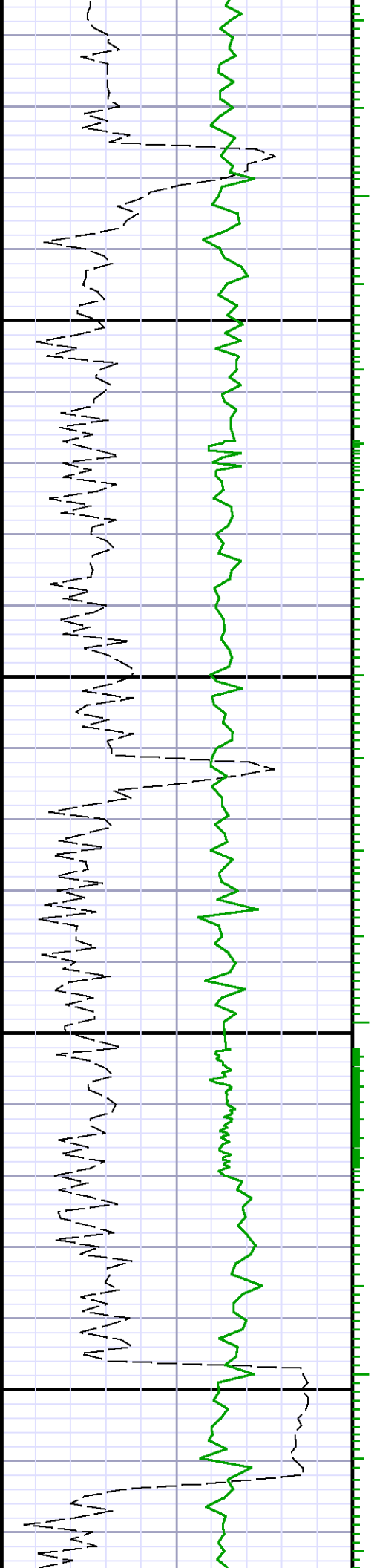
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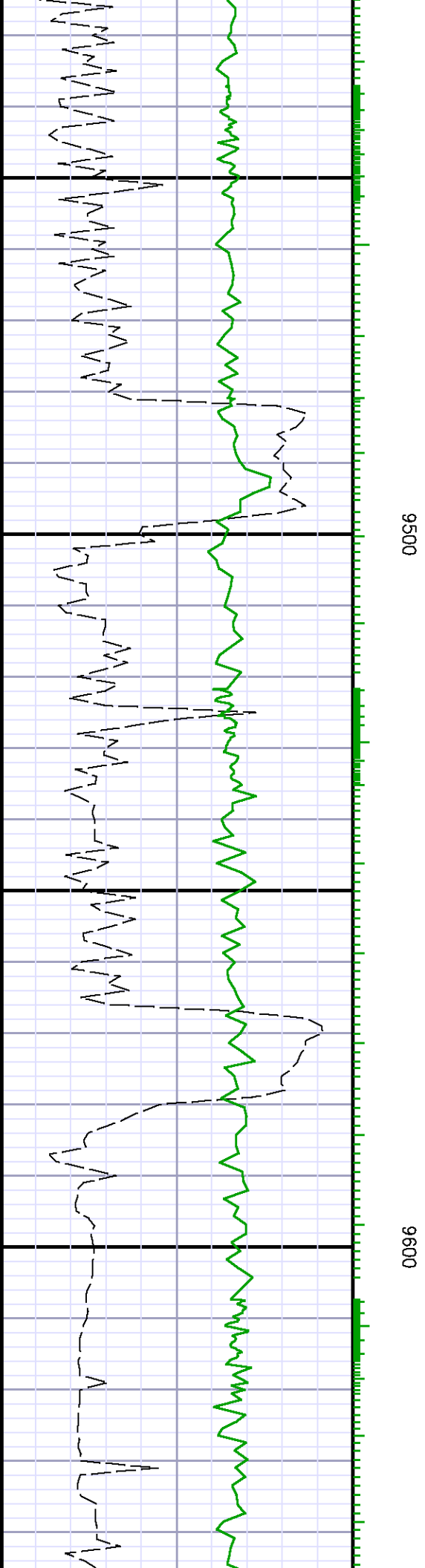


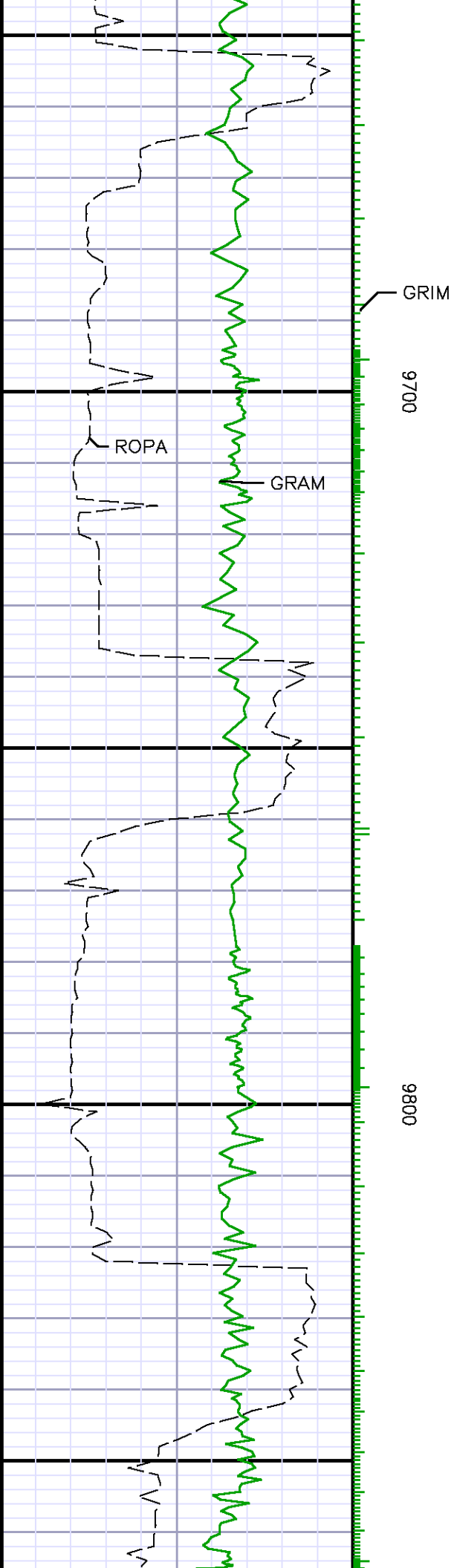


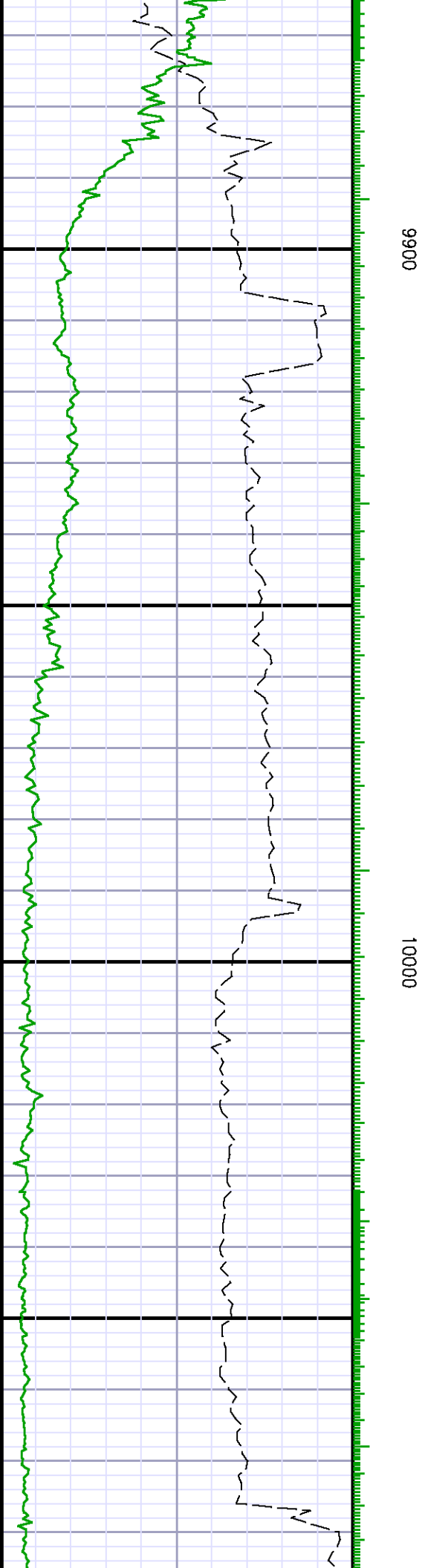
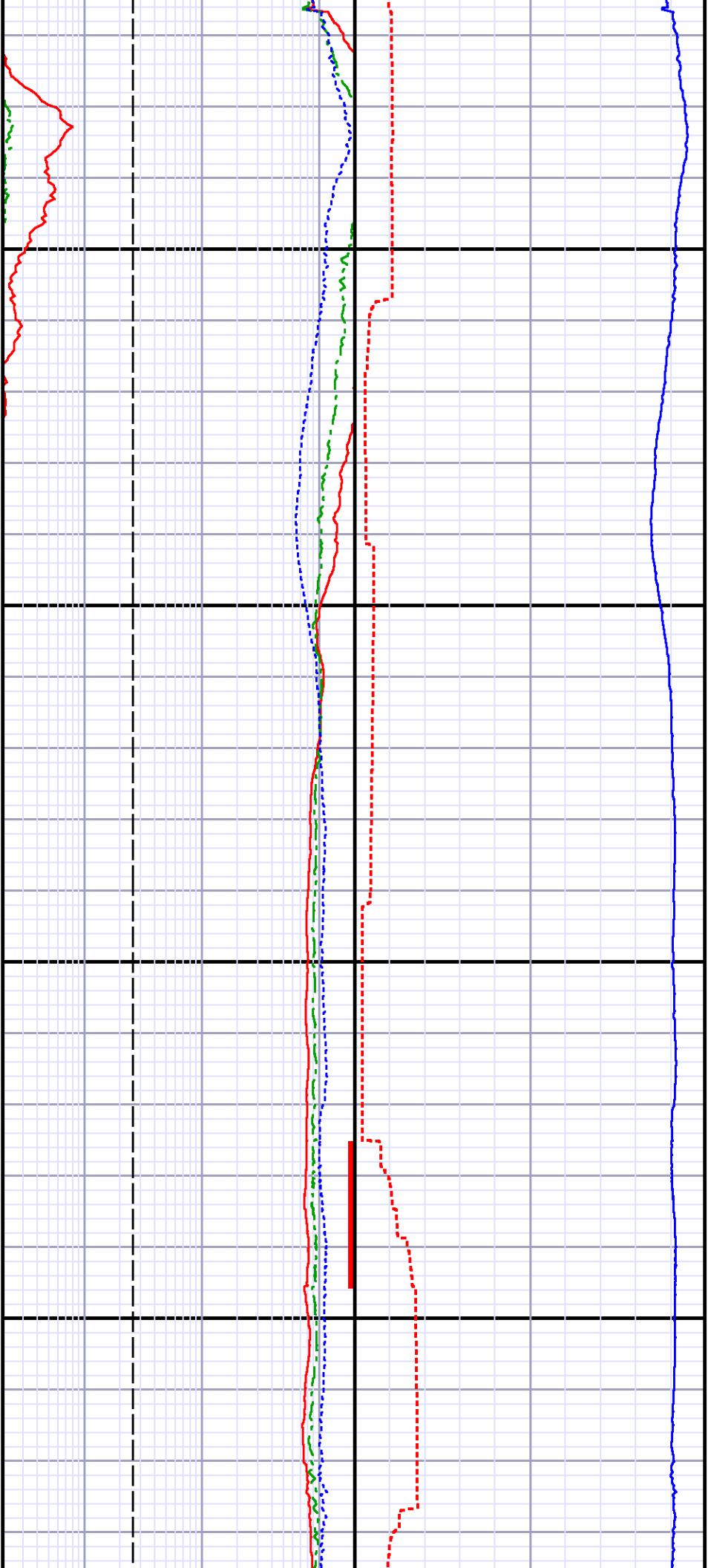
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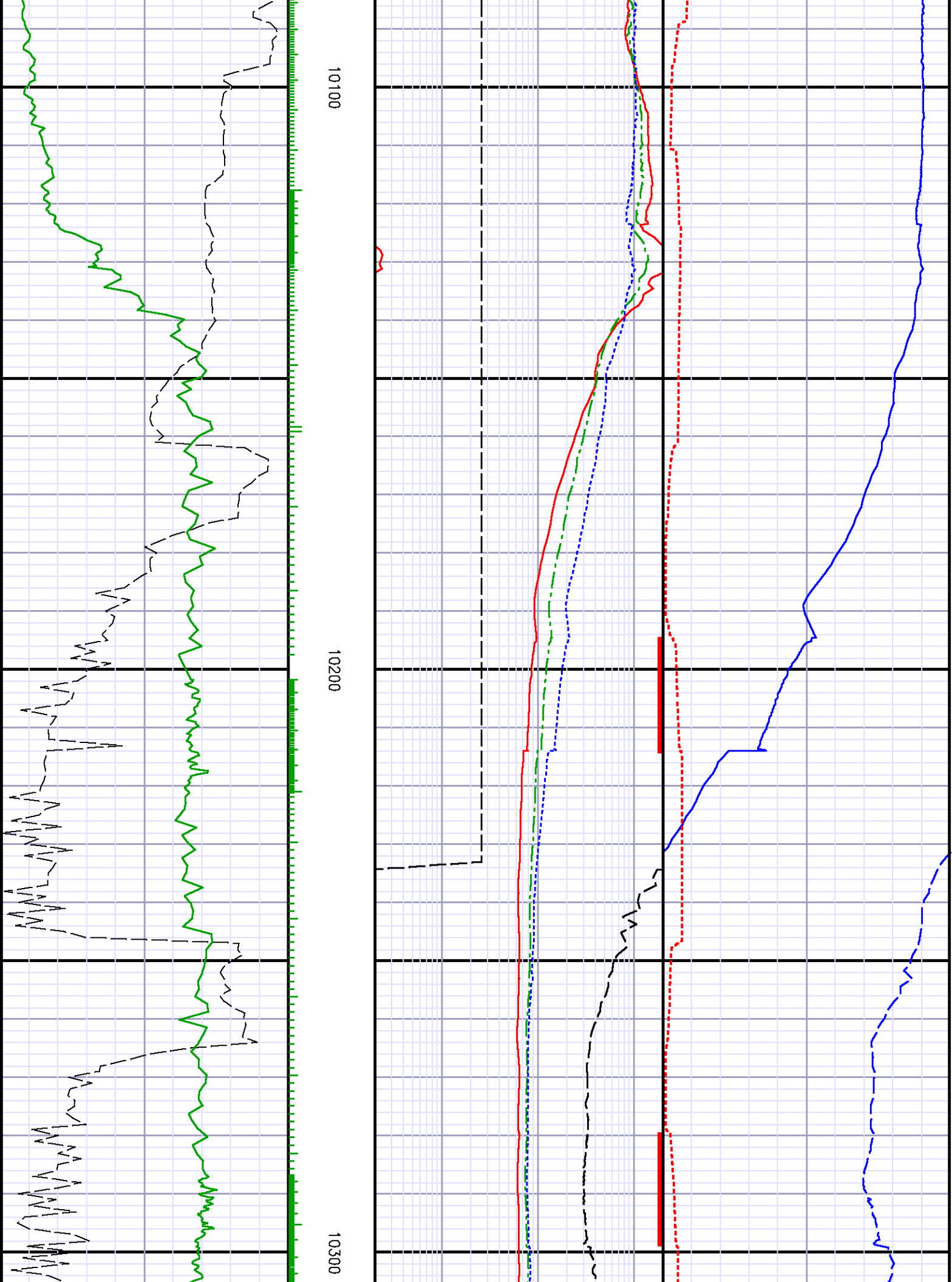
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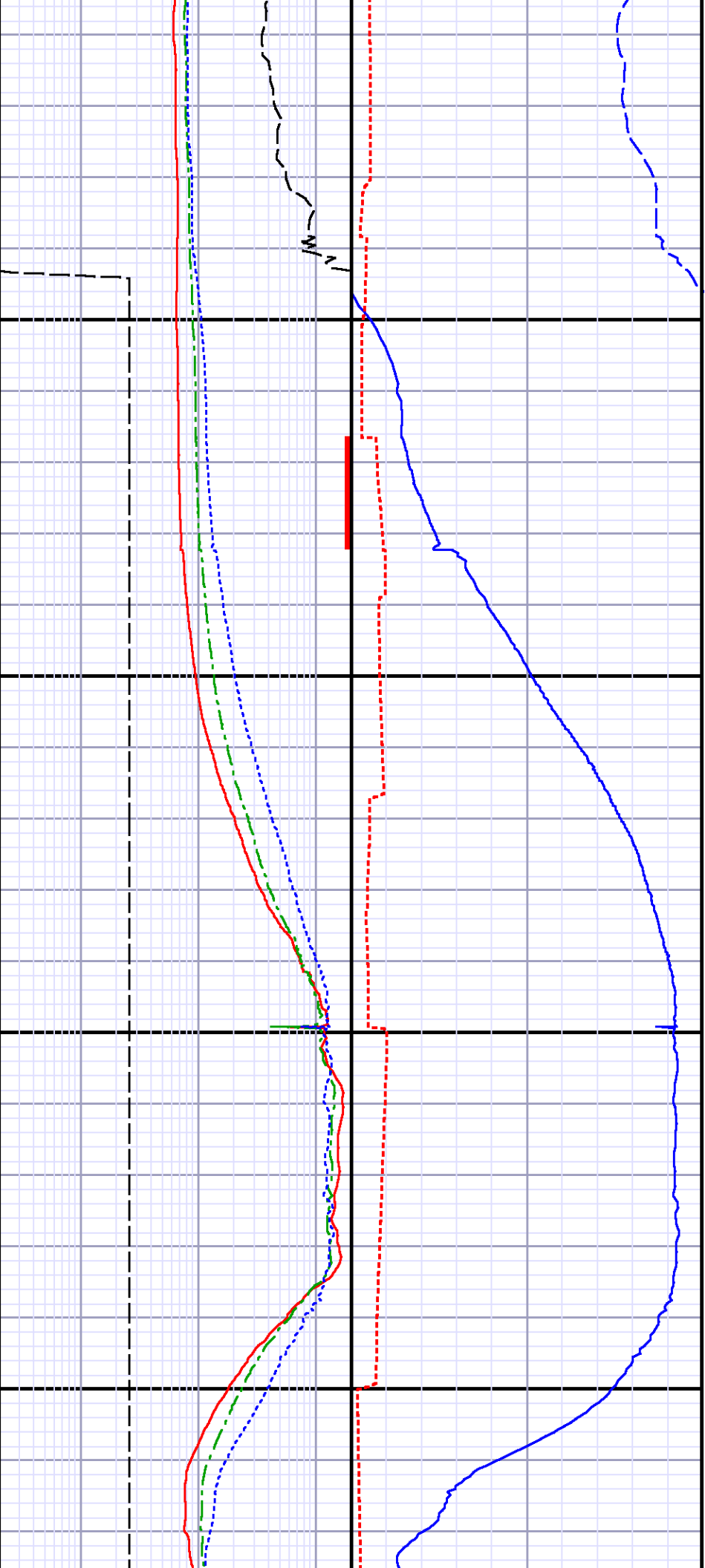






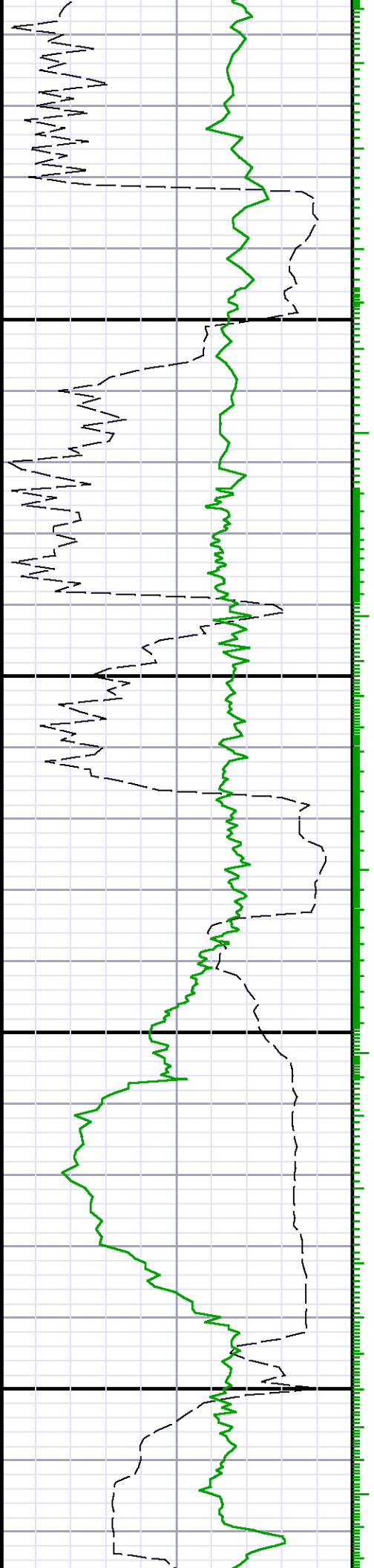


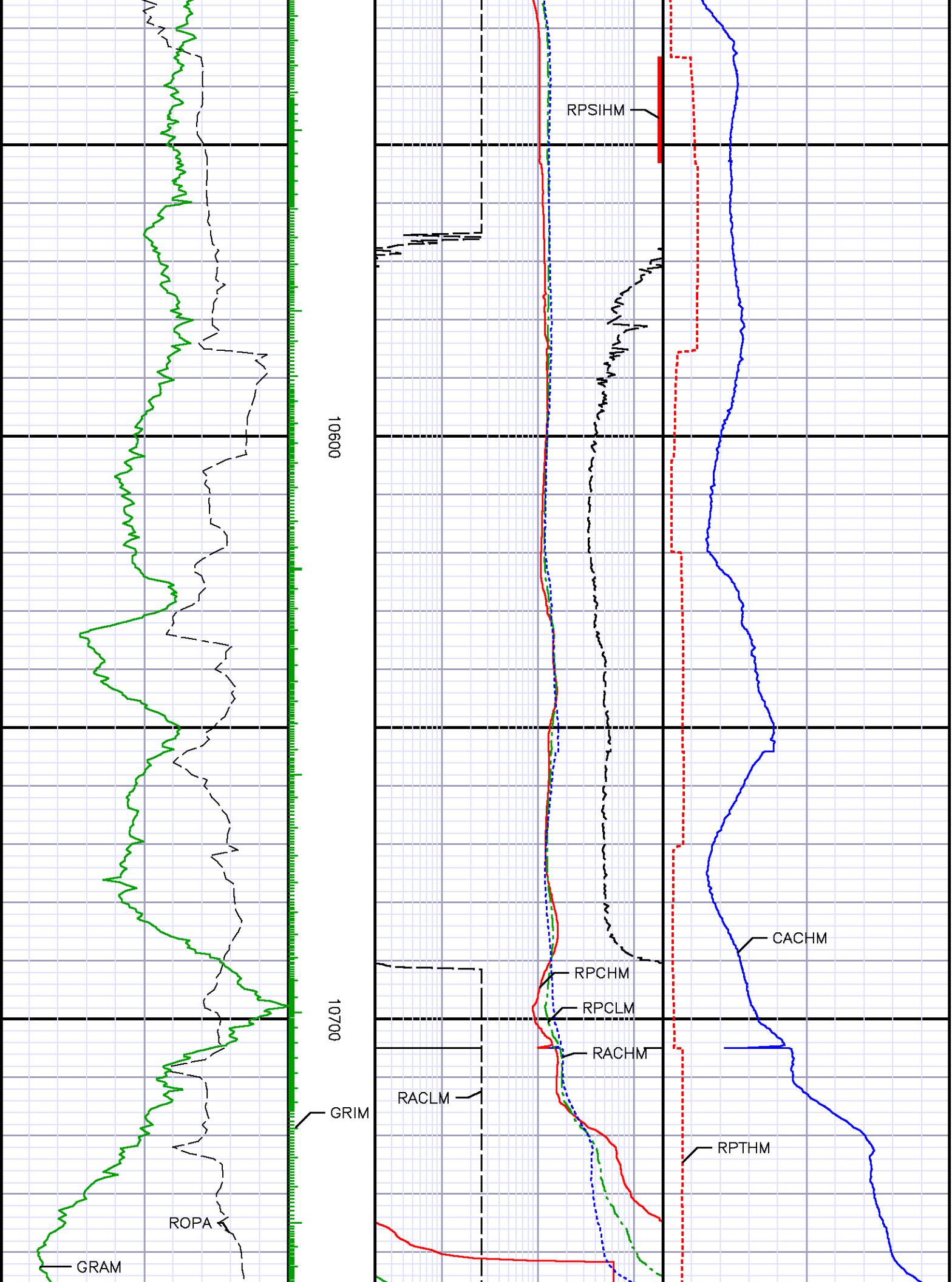


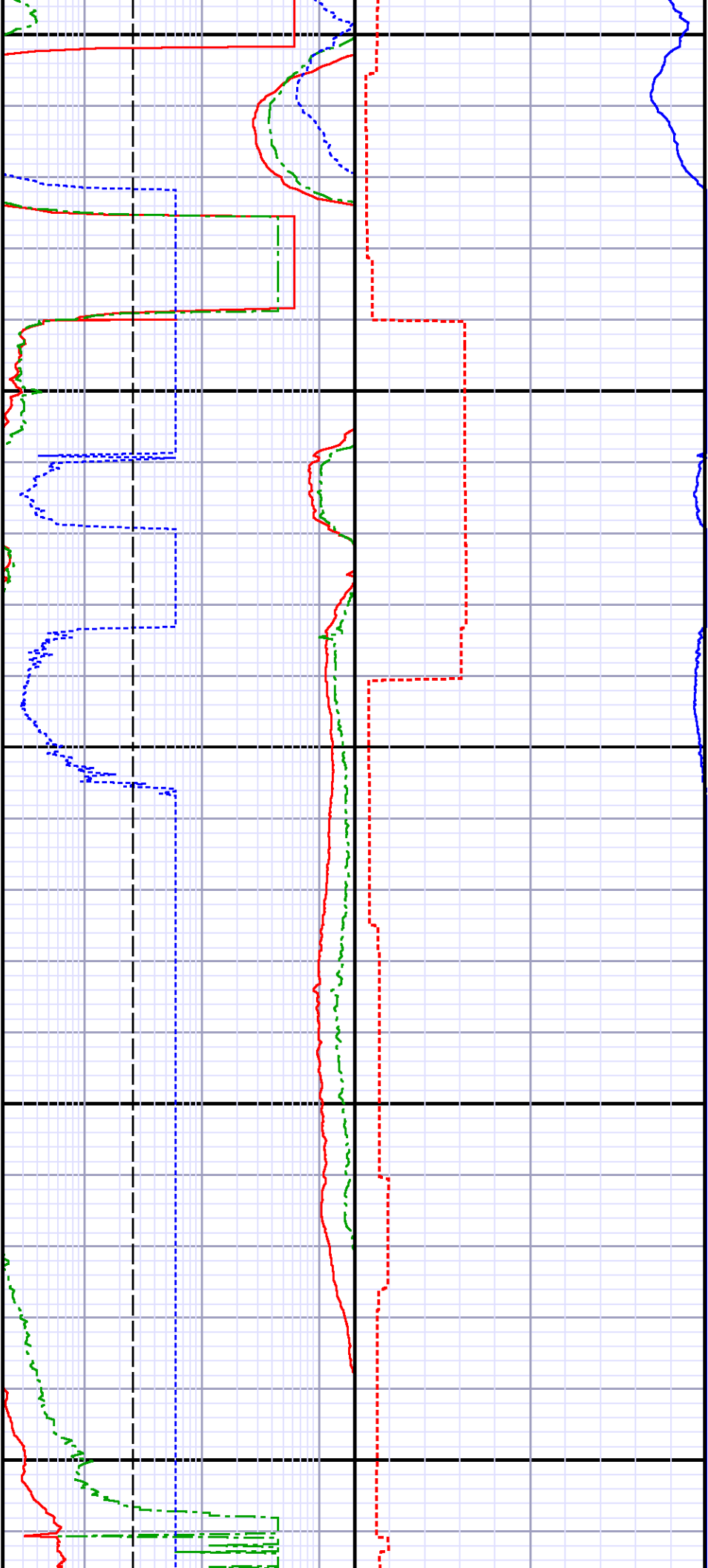


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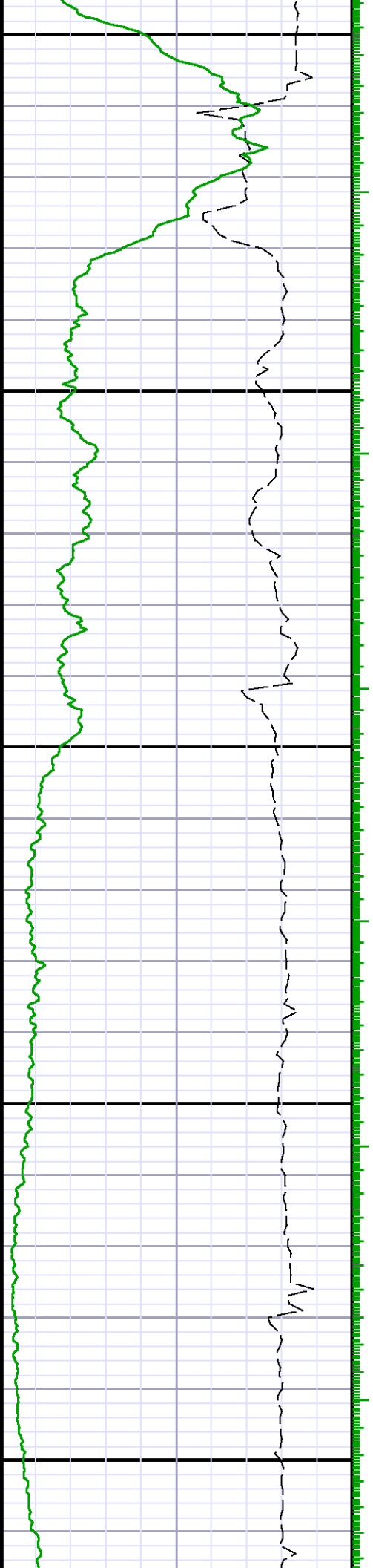






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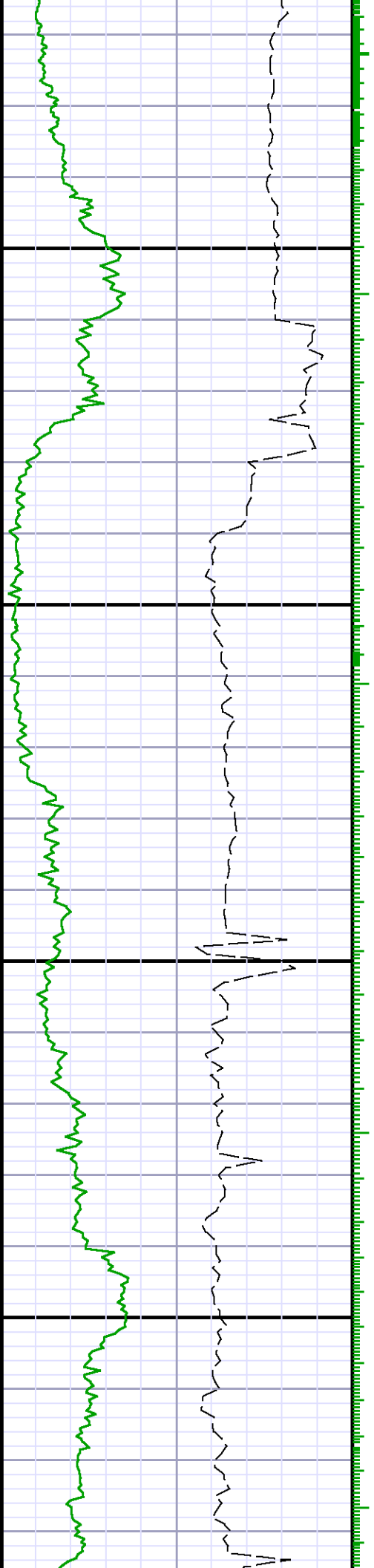
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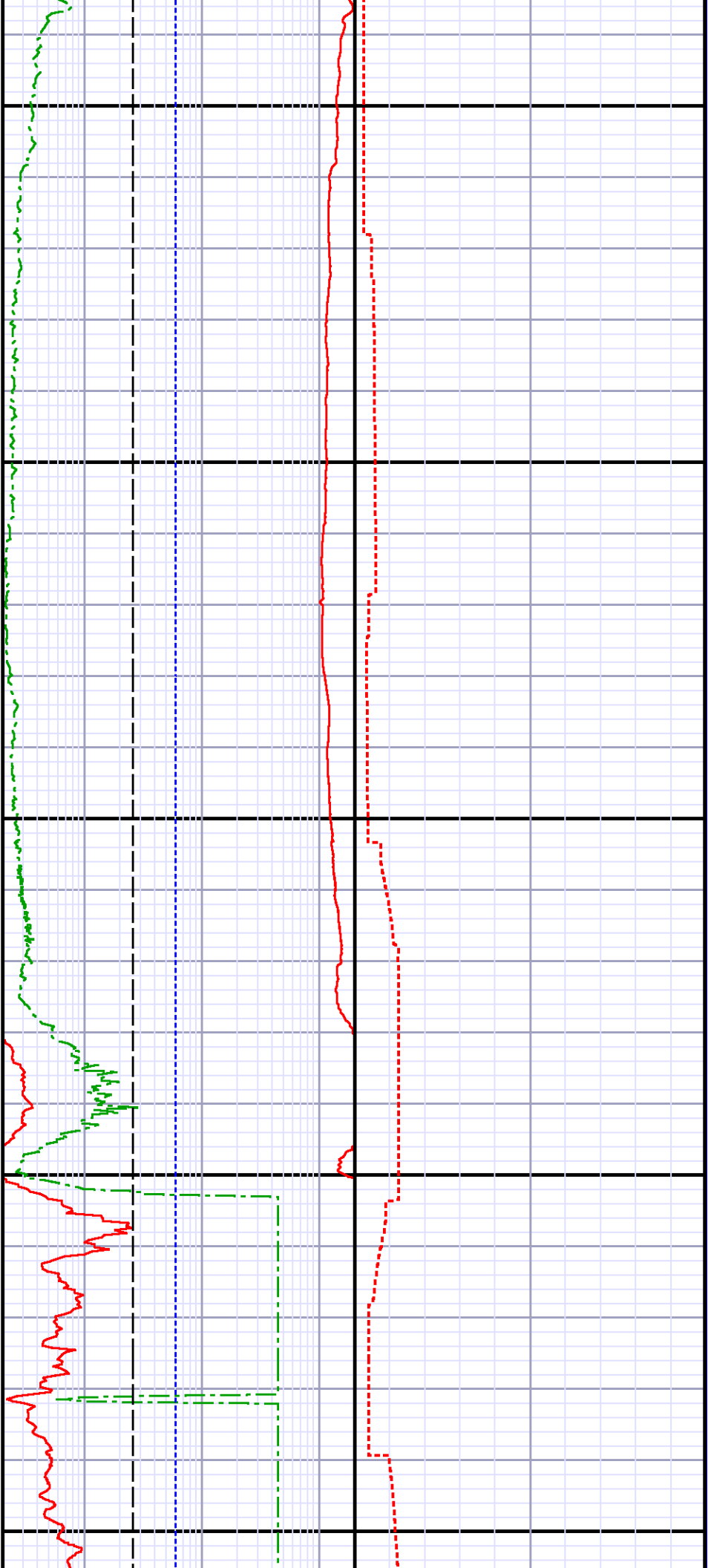




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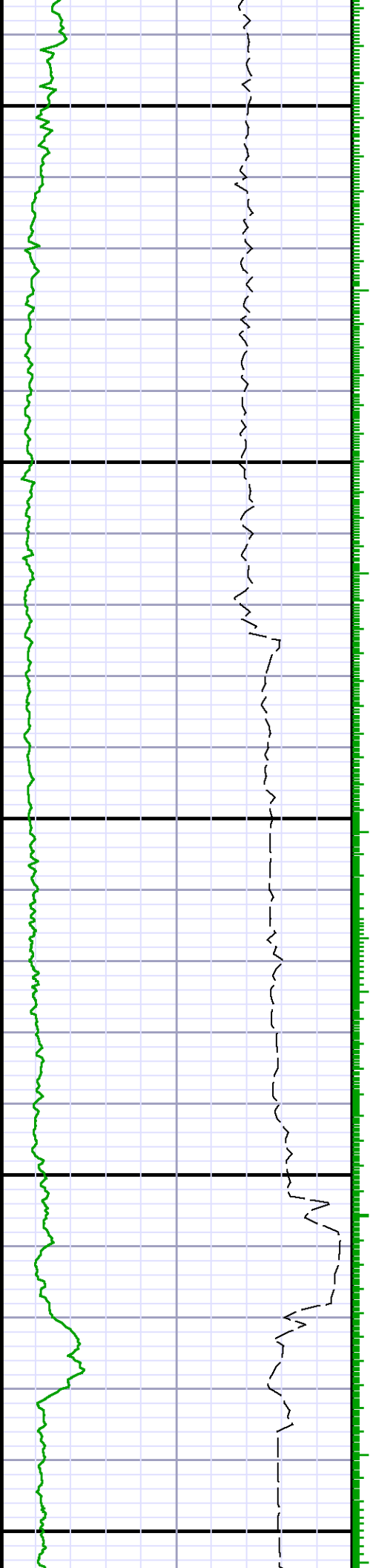


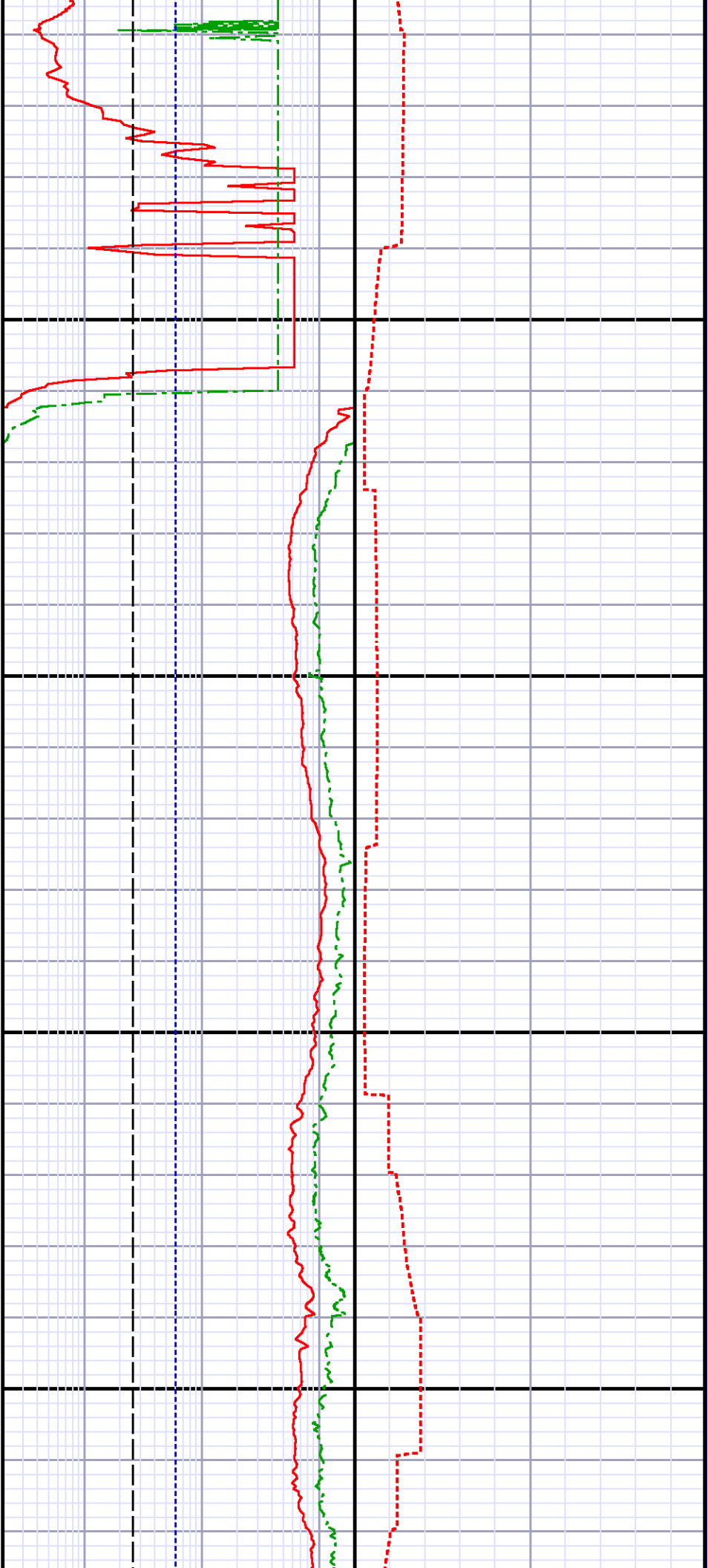


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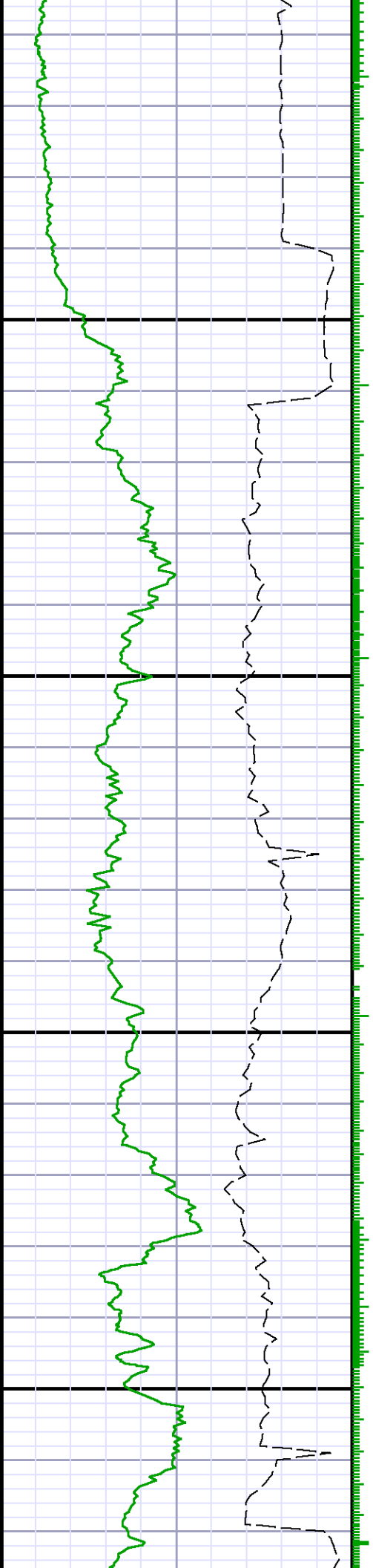
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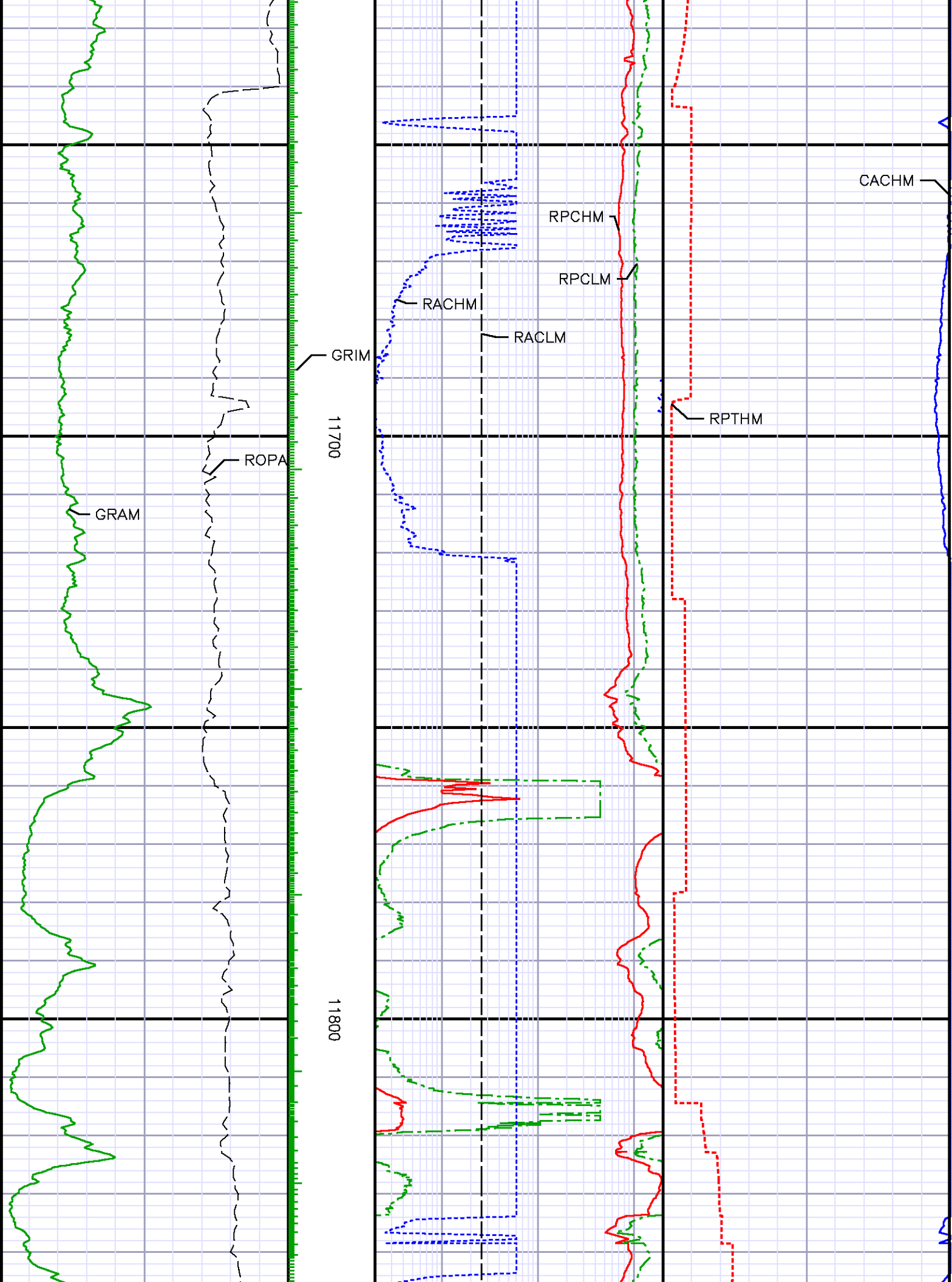


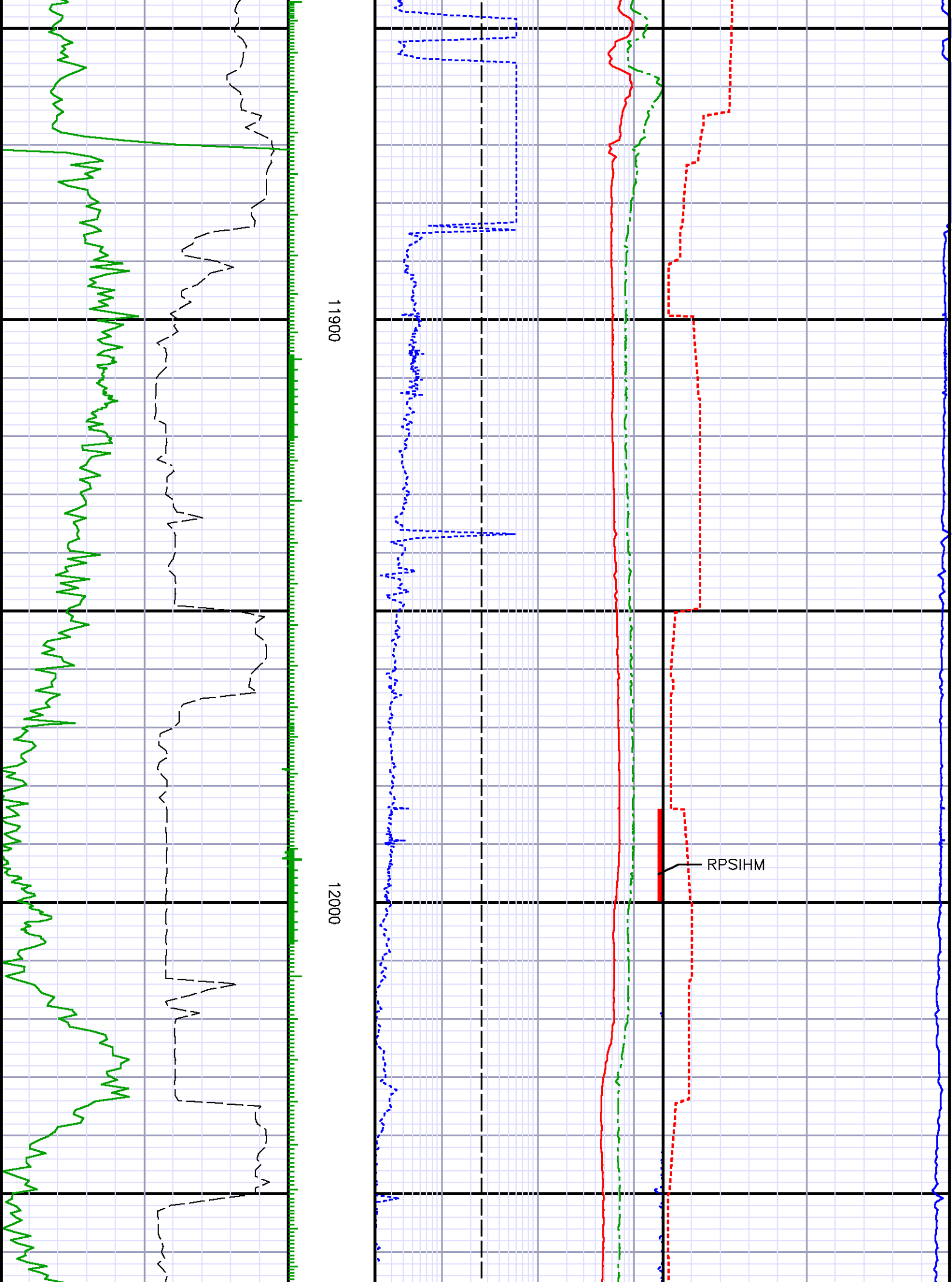


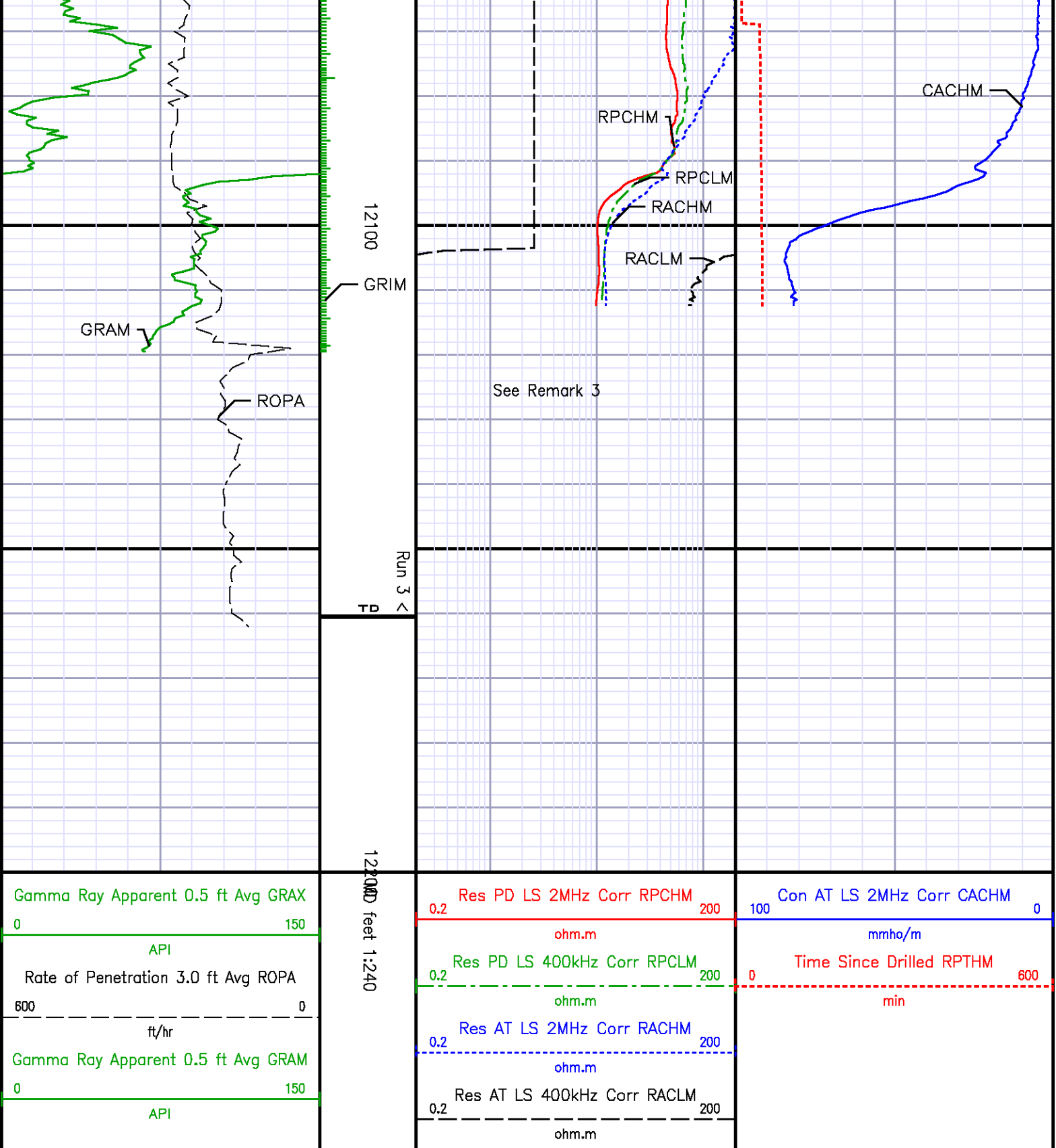
11500

11600









ADVANTAGE Final Survey Listing

Operator : Anadarko Field : WELD COUNTY API No : 05-123-36185
Well : REIGLE 29C-9HZ Rig : Xtreme 6 Job : 5126907
Wellbore : REIGLE 29C-9HZ Orig Hole

Well Origin

Latitude 40.1734 deg Longitude -104.6770 deg
North Reference True Drill Depth Zero NULL
Vertical Datum is Ground Level Vertical Datum to DDZ 17.00 ft
Vertical Section North 0.00 ft Vertical Section East 0.00 ft

Vertical Section Azimuth						172.9400 deg		Vertical Section Depth			0.00ft	
Grid Convergence						0.0000 deg		Magnetic Declination			8.6300 deg	
Total Correction						8.6300 deg		TVD Calculation Method			Minimal Curvature	
D-Raw Calculation						Magscorr1		Local Magnetic Field			62872 nT	
Local Magnetic Dip Angle						66.9600 deg		Local Gravity Field			9.804 m/s^2	
Tie	MD ft	Incl deg	Azim deg	North ft	East ft	TVD ft	VS ft	Incr VS ft	Crs Len ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft
U	0.00	0.0000	0.0000	0.00	0.00	0.00	0.00	0.00				
	882.00	0.1600	317.1900	3.20	-1.04	881.99	-3.30	-0.94	882.00	0.02	0.02	-5.15
	966.00	0.3600	121.9900	3.10	-0.79	966.99	-3.16	-0.67	134.00	0.40	0.16	122.99
	1067.00	0.2800	94.8100	2.93	-0.36	1066.99	-2.96	-0.20	91.00	0.22	-0.16	-29.87
	1147.00	1.4200	62.7400	3.69	0.72	1146.98	-3.47	1.06	90.00	1.40	1.32	-46.74
	1239.00	2.8300	50.1200	6.73	3.37	1238.91	-5.28	4.46	92.00	1.64	1.63	-2.85
	1330.00	4.4100	46.6600	9.68	7.63	1329.73	-6.66	10.21	91.00	1.76	1.74	-3.80
	1421.00	6.7500	49.6100	14.94	13.66	1420.37	-13.15	18.26	91.00	1.60	1.47	3.13
	1610.00	6.9900	66.6700	20.82	21.66	1608.82	-16.01	26.12	89.00	1.66	1.39	7.93
	1695.00	7.8800	60.0100	26.68	30.92	1693.10	-22.68	39.11	86.00	1.17	1.06	4.06
1660.00	9.4400	62.2400	32.74	42.14	1677.13	-27.31	61.91	86.00	1.88	1.84	2.62	
1766.00	10.4600	61.6600	39.73	56.26	1761.84	-32.64	66.77	86.00	1.19	1.19	-0.87	
1861.00	10.2100	61.9000	46.94	68.68	1846.46	-36.14	62.02	86.00	0.30	-0.29	0.26	
1936.00	11.0600	68.6000	64.72	82.32	1929.00	-44.19	97.71	86.00	1.22	1.02	-3.66	
2021.00	10.7700	68.7800	63.07	96.09	2012.46	-50.78	113.82	86.00	0.36	-0.36	-0.02	
2106.00	11.3900	63.6600	72.13	109.66	2096.87	-56.11	130.14	86.00	1.33	0.73	-6.60	
2191.00	10.8800	62.0600	82.02	122.77	2179.27	-66.31	146.66	86.00	0.73	-0.60	-2.12	
2276.00	10.3700	62.6000	91.66	136.11	2262.83	-74.26	162.16	86.00	0.73	-0.72	0.66	
2362.00	10.4400	68.0600	100.33	147.81	2347.43	-81.41	177.69	86.00	1.16	0.20	6.64	
2447.00	10.4200	67.6800	108.62	160.84	2431.02	-87.93	192.96	86.00	0.06	-0.02	-0.44	
2532.00	9.9200	69.2700	116.37	173.63	2514.69	-94.15	207.99	86.00	0.67	-0.69	1.87	
2617.00	10.3600	66.6600	124.44	186.24	2606.36	-100.61	222.96	86.00	0.94	0.64	-4.36	
2703.00	10.9600	63.3700	133.70	199.19	2682.87	-108.21	238.88	86.00	0.82	0.67	-2.63	
2788.00	10.6900	61.6600	143.36	211.79	2766.37	-116.26	254.77	86.00	0.69	-0.44	-2.14	
2873.00	10.7700	63.7400	152.94	224.31	2849.90	-124.21	270.62	86.00	0.62	0.21	2.68	
2966.00	10.6600	63.0600	162.46	237.12	2933.39	-132.07	286.47	86.00	0.19	0.11	-0.61	
3043.00	11.0100	64.3700	171.99	260.11	3016.86	-139.94	302.69	86.00	0.34	0.18	1.66	
3129.00	10.8600	64.1100	181.62	263.36	3101.29	-147.78	318.91	86.00	0.18	-0.17	-0.30	
3214.00	10.4900	64.0600	190.76	276.11	3184.82	-166.37	334.66	86.00	0.44	-0.44	-0.04	
3299.00	10.6600	63.6600	199.96	288.69	3268.37	-162.96	350.24	86.00	0.22	0.19	-0.62	
3384.00	10.6600	68.0300	208.79	301.66	3361.91	-170.13	366.96	86.00	0.97	0.01	6.27	
3469.00	9.9800	66.7900	216.99	314.61	3436.63	-176.69	381.17	86.00	0.84	-0.80	-1.46	
3664.00	10.0700	69.6600	224.76	327.10	3619.24	-182.86	396.96	86.00	0.64	0.11	3.60	
3640.00	10.7400	67.2900	232.86	340.34	3603.82	-189.26	411.49	86.00	0.96	0.78	-2.96	
3726.00	10.3100	66.6000	241.44	363.26	3687.39	-196.19	427.02	86.00	0.62	-0.61	-1.99	
3808.00	11.0300	67.1600	249.94	366.08	3768.96	-203.06	442.38	83.00	0.93	0.87	1.88	
3893.00	10.3000	66.6200	266.64	379.26	3862.49	-209.97	468.11	86.00	0.87	-0.86	-0.76	
3978.00	10.2600	66.0600	266.96	391.87	3936.12	-216.77	473.28	86.00	0.11	-0.06	-0.66	
4064.00	11.1900	66.9900	276.76	406.22	4020.62	-223.89	469.29	86.00	1.10	1.06	1.09	
4147.00	10.9300	66.6600	284.62	418.46	4102.06	-231.03	506.21	83.00	0.46	-0.31	-1.72	
4233.00	11.4200	68.1400	293.73	432.42	4186.46	-238.86	621.87	86.00	0.81	0.67	3.00	
4317.00	10.9200	64.1700	302.77	446.93	4266.86	-246.67	636.13	84.00	1.09	-0.60	-4.73	
4401.00	10.7800	63.8800	312.06	468.73	4361.36	-253.31	669.96	84.00	0.18	-0.17	-0.66	
4466.00	10.7600	66.2800	321.16	471.76	4434.86	-260.74	669.83	86.00	0.63	-0.02	2.62	
4662.00	10.6600	61.0400	329.17	484.91	4616.42	-267.07	666.23	83.00	1.07	-0.16	6.73	
4664.00	10.3100	60.7300	336.69	496.41	4600.00	-272.86	600.69	86.00	0.41	-0.40	-0.36	
4739.00	10.8900	60.7200	344.14	611.70	4683.62	-278.64	616.92	86.00	0.02	0.02	-0.01	
4824.00	9.9700	60.6200	361.46	624.77	4767.29	-284.29	630.90	86.00	0.42	-0.42	0.12	
4909.00	9.1400	66.1000	366.90	636.73	4861.12	-290.21	644.99	86.00	1.48	-0.96	-6.73	
4994.00	9.1700	66.9900	366.26	646.07	4936.03	-296.11	666.61	86.00	0.73	0.04	4.66	
Tie	MD ft	Incl deg	Azim deg	North ft	East ft	TVD ft	VS ft	Incr VS ft	Crs Len ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft
	6080.00	9.6800	69.7300	373.43	660.19	6019.87	-301.76	672.69	86.00	0.61	0.69	0.66
	6166.00	9.6600	61.4600	380.43	672.62	6103.67	-307.17	686.86	86.00	0.34	-0.04	2.04
	6260.00	9.4200	63.1100	386.98	686.06	6187.49	-312.14	700.94	86.00	0.42	-0.27	1.94
	6336.00	6.0700	64.4100	392.71	696.67	6271.60	-316.39	713.86	86.00	1.61	-1.69	1.63
	6421.00	7.4600	63.9600	397.77	607.13	6366.71	-320.18	726.48	86.00	0.71	-0.71	-0.68
	6606.00	6.3100	69.6600	402.64	616.12	6441.10	-323.76	736.66	86.00	1.47	-1.36	-4.82
	6691.00	6.4100	67.3700	407.04	623.64	6626.66	-327.32	744.34	86.00	1.10	-1.06	-2.92
	6676.00	4.6700	62.6700	411.26	629.61	6610.33	-330.76	761.72	86.00	1.10	-0.99	-6.63
	6761.00	3.2800	66.6600	414.68	634.31	6696.13	-333.68	767.64	86.00	1.64	-1.62	3.62
	6847.00	2.0400	62.4600	416.73	637.69	6781.04	-336.24	781.63	86.00	1.49	-1.44	7.90
6932.00	1.3200	63.4400	418.06	639.82	6866.00	-336.26	784.01	86.00	0.90	-0.86	-10.60	
6016.00	0.4900	34.7600	416.93	640.60	6949.99	-337.00	766.32	84.00	1.04	-0.99	-22.26	
6101.00	0.3100	63.4000	419.37	641.20	6034.99	-337.38	766.91	86.00	0.26	-0.21	21.94	
6166.00	0.6400	64.2100	419.66	641.66	6116.96	-337.46	766.66	84.00	0.46	0.39	26.66	
6270.00	0.6600	126.4800	419.92	642.71	6203.98	-337.16	767.48	86.00	0.63	0.01	46.66	
6366.00	0.7400	132.1900	418.66	643.62	6289.97	-336.40	768.62	86.00	0.14	0.10	7.80	
6441.00	0.6400	161.0200	417.76	644.23	6374.96	-336.40	769.66	86.00	0.33	0.12	22.16	
6626.00	1.2000	160.6300	416.43	644.97	6469.96	-334.00	771.19	86.00	0.42	0.42	-0.46	
6611.00	1.2000	160.9400	414.66	646.83	6644.93	-332.36	772.97	86.00	0.01	0.00	0.66	
6660.00	1.4100	146.1200	414.11	646.29	6663.92	-331.64	773.86	89.00	0.66	0.64	-7.23	
6693.00	1.4700	162.3600	413.14	646.73	6626.91	-330.61	774.93	43.00	0.64	0.14	33.12	
6736.00	6.1900	181.6600	410.67	646.84	6669.83	-328.06	777.40	43.00	8.91	8.66	44.88	
6776.00	10.4000	181.2600	404.97	646.71	6711.43	-322.42	763.10	42.00	12.41	12.40	-0.96	
6821.00	14.7400	182.6000	396.62	646.37	6763.39	-313.18	762.46	43.00	10.12	10.09	3.14	
6864.00	16.6600	181.2600	383.26	646.97	6794.66	-300.97	804.81	43.00	9.16	9.12	-3.12	
6906.00	21.6000	180.6000	368.83	646.74	6833.99	-286.66	819.26	42.00	7.02	7.00	-1.67	
6949.00	26.1200	180.4100	361.44	646.69	6873.31	-269.42	836.66	43.00	10.61	10.61	-0.44	
6991.00	29.1600	181.1800	361.96	646.62	6910.61	-260.13	866.13	42.00	7.26	7.21	1.63	
7034.00	33.6600	181.9600	309.66	644.70	6947.27	-228.08	878.43	43.00	9.93	9.79	1.79	

	7077.00	36.7700	183.4000	284.99	843.63	8982.46	-203.74	903.13	43.00	8.16	7.93	3.37
	7119.00	40.7700	183.2100	256.74	842.02	7015.20	-177.87	929.42	42.00	9.53	9.52	-0.45
	7162.00	46.6300	183.8900	229.40	840.19	7046.66	-146.96	956.82	43.00	11.12	11.07	1.68
	7204.00	50.1900	181.6300	198.30	838.74	7074.73	-118.29	989.96	42.00	11.86	11.10	-6.82
	7247.00	64.1600	181.6700	164.36	837.82	7101.10	-84.72	1023.91	43.00	9.23	9.23	0.09
	7290.00	68.6100	181.1300	128.57	836.98	7124.90	-49.30	1059.71	43.00	10.38	10.36	-1.02
	7332.00	63.0300	181.3200	91.91	836.20	7146.37	-13.02	1096.37	42.00	10.63	10.62	0.46
	7375.00	67.7800	180.8900	52.83	835.46	7163.26	26.87	1135.48	43.00	11.08	11.06	-1.00
	7417.00	72.3900	181.6400	13.37	834.67	7177.66	64.73	1174.94	42.00	11.10	10.96	1.79
	7460.00	76.8300	181.9400	-27.94	833.26	7189.41	106.67	1216.27	43.00	7.66	7.66	0.70
	7502.00	78.1300	182.2100	-66.82	831.60	7196.94	146.96	1267.17	42.00	6.99	6.96	0.64
	7545.00	80.8800	181.7200	-111.07	830.36	7206.77	187.70	1299.46	43.00	6.49	6.40	-1.14
	7590.00	86.2000	181.6600	-156.71	829.07	7212.22	231.86	1344.10	46.00	9.81	9.80	-0.88
	7636.00	90.1600	182.9200	-201.62	827.26	7214.09	277.19	1390.06	46.00	11.16	10.76	2.96
	7721.00	90.7600	182.8100	-256.61	823.03	7213.41	360.91	1476.06	86.00	0.73	0.72	-0.18
	7807.00	89.8700	181.6200	-372.44	819.70	7212.94	446.79	1661.04	86.00	1.73	-1.03	-1.38
	7892.00	90.6200	180.0900	-457.43	818.44	7212.66	529.97	1646.04	86.00	1.96	0.76	-1.80
	7977.00	90.0600	180.1800	-642.43	816.24	7212.22	614.30	1731.04	86.00	0.66	-0.64	0.11
	8062.00	89.7800	181.3800	-627.42	817.08	7212.34	696.61	1816.04	86.00	1.46	-0.33	1.41
	8147.00	89.7600	180.4900	-712.41	816.69	7212.69	782.66	1901.04	86.00	1.06	-0.04	-1.06
	8233.00	89.6600	180.9700	-798.40	814.60	7213.21	867.88	1987.03	86.00	0.60	-0.22	0.66
Tie	MD ft	Incl deg	Azim deg	North ft	East ft	TVD ft	VS ft	Incr VS ft	Crs Len ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft
	8318.00	90.0000	180.0300	-883.39	813.86	7213.63	962.14	2072.03	86.00	1.22	0.62	-1.11
	8403.00	89.6300	179.1800	-966.39	814.44	7213.81	1036.67	2167.03	86.00	1.09	-0.44	-1.00
	8488.00	89.2300	179.3400	-1053.88	816.64	7214.66	1121.06	2242.03	86.00	0.61	-0.47	0.19
	8573.00	90.2700	179.8900	-1138.37	816.11	7215.02	1206.47	2327.02	86.00	1.38	1.22	0.66
	8668.00	89.9000	181.6600	-1223.36	816.04	7214.90	1289.66	2412.02	86.00	2.00	-0.44	1.96
	8743.00	90.8300	179.2100	-1308.86	814.48	7214.36	1373.96	2497.01	86.00	2.96	1.09	-2.76
	8828.00	90.6600	178.9400	-1393.34	816.66	7213.31	1468.46	2682.01	86.00	0.43	-0.29	-0.32
	8913.00	90.1600	178.8200	-1478.82	817.61	7212.77	1548.01	2667.00	86.00	0.63	-0.61	-0.14
	8998.00	91.0800	179.6700	-1663.30	818.63	7211.86	1627.49	2762.00	86.00	1.48	1.09	1.00
	9083.00	90.7400	179.6900	-1648.29	819.18	7210.61	1711.90	2836.99	86.00	0.41	-0.40	-0.09
	9169.00	90.2800	180.1400	-1734.29	819.36	7209.74	1797.26	2922.98	86.00	0.83	-0.63	0.64
	9254.00	89.8200	180.2000	-1819.29	819.13	7209.67	1881.69	3007.98	86.00	0.66	-0.64	0.07
	9339.00	89.4200	180.9700	-1904.26	818.26	7210.23	1966.83	3092.98	86.00	1.02	-0.47	0.91
	9424.00	90.6800	181.4500	-1989.26	816.47	7210.16	2049.94	3177.98	86.00	1.69	1.48	0.66
	9509.00	90.8900	180.6300	-2074.23	814.92	7208.99	2134.09	3262.97	86.00	1.00	0.26	-0.96
	9595.00	91.2000	180.9600	-2160.21	813.73	7207.42	2219.27	3348.96	86.00	0.63	0.36	0.68
	9680.00	90.8000	179.4000	-2246.20	813.46	7206.94	2303.67	3433.94	86.00	1.89	-0.47	-1.84
	9766.00	91.0600	179.7800	-2330.18	814.07	7204.67	2387.99	3518.93	86.00	0.64	0.29	0.46
	9850.00	92.1800	178.6300	-2416.14	816.26	7202.17	2472.46	3603.89	86.00	1.90	1.39	-1.86
	9936.00	91.2000	179.0600	-2600.08	816.96	7199.66	2666.96	3688.86	86.00	1.26	-1.16	0.61
	10020.00	90.8900	178.7200	-2686.06	818.61	7196.11	2641.46	3773.84	86.00	0.64	-0.36	-0.40
	10106.00	89.6400	179.9000	-2670.04	819.63	7197.80	2726.96	3868.83	86.00	2.11	-1.69	1.69
	10190.00	88.2400	180.7400	-2766.02	819.16	7199.44	2810.23	3943.82	86.00	1.82	-1.63	0.99
	10276.00	86.7400	180.6800	-2839.99	818.11	7201.66	2894.42	4028.79	86.00	0.69	0.69	-0.07
	10360.00	89.4100	181.2300	-2924.96	816.69	7203.06	2978.66	4113.77	86.00	1.02	0.79	0.66
	10446.00	89.8100	181.1100	-3009.94	814.96	7203.63	3062.70	4196.77	86.00	0.49	0.47	-0.14
	10530.00	89.1900	180.6300	-3094.83	813.74	7204.37	3146.90	4283.77	86.00	1.00	-0.73	-0.68
	10616.00	90.6200	181.6900	-3179.91	812.16	7204.69	3231.04	4368.76	86.00	2.00	1.66	1.26
	10700.00	89.6900	181.8400	-3264.87	809.62	7204.43	3316.06	4463.76	86.00	1.02	-0.98	0.29
	10786.00	90.4000	181.3700	-3350.84	807.21	7204.37	3400.08	4559.76	86.00	0.99	0.83	-0.66
	10871.00	90.7000	181.1200	-3436.81	806.37	7203.66	3484.17	4624.76	86.00	0.46	0.36	-0.29
	10956.00	90.9200	180.8800	-3520.79	803.88	7202.36	3568.32	4709.76	86.00	0.38	0.28	-0.28
	11042.00	89.2000	182.2300	-3606.76	801.66	7202.26	3653.34	4796.74	86.00	2.64	-2.00	1.67
	11127.00	89.1000	181.9800	-3691.69	598.43	7203.62	3737.26	4880.73	86.00	0.32	-0.12	-0.29
	11212.00	89.1400	183.6400	-3776.66	694.33	7204.83	3820.99	4966.72	86.00	1.84	0.06	1.64
	11297.00	89.3600	183.0000	-3861.43	589.49	7206.96	3904.61	5060.71	86.00	0.68	0.26	-0.64
	11382.00	89.9100	182.2300	-3946.34	666.61	7206.49	3988.39	5136.71	86.00	1.12	0.66	-0.91
	11467.00	90.1800	179.6400	-4031.32	684.30	7206.43	4072.67	5220.70	86.00	3.18	0.32	-3.16
	11552.00	91.6100	180.3600	-4116.31	664.37	7206.17	4166.92	5306.69	86.00	1.84	1.66	0.96
	11637.00	89.0800	180.7800	-4201.80	663.62	7204.74	4241.16	5390.68	86.00	2.90	-2.86	0.49
	11722.00	86.4600	178.1600	-4286.27	664.32	7206.66	4326.69	5476.66	86.00	3.16	-0.73	-3.09
	11807.00	88.7700	177.2900	-4371.17	667.70	7208.62	4410.26	5560.63	86.00	1.08	0.36	-1.01
	11892.00	86.7900	179.0200	-4456.11	690.43	7210.43	4494.89	5646.61	86.00	2.03	0.02	2.04
	11977.00	89.6900	179.2900	-4541.09	691.69	7211.66	4579.36	5730.60	86.00	1.11	1.06	0.32
	12062.00	90.2400	179.9200	-4626.09	692.27	7211.60	4663.81	5816.60	86.00	0.98	0.66	0.74
	12104.00	89.6400	179.7300	-4666.09	692.40	7211.66	4706.60	5867.60	42.00	1.06	-0.96	-0.46
Projection to TD:	12161.00	89.6400	179.7300	-4726.09	692.67	7211.73	4762.10	5914.60	67.00	0.00	0.00	0.00