



Weatherford

**CML MESSENGER SHUTTLE
ARRAY INDUCTION LOG**

COMPANY SANDRIDGE ENERGY
WELL JOCHEMS 2721 2-2H
FIELD WILDCAT
PROVINCE/COUNTY FORD
COUNTRY/STATE U.S.A. / KANSAS
LOCATION SHL: 200' FSL & 2240' FEL
BHL: 330' FNL & 2240' FEL

SEC 2 TWP 27S RGE 21W
API Number 15-057-20832
Permit Number Other Services
MPD/MDN
CMI

Permanent Datum G.L., Elevation 2284 feet
Log Measured From KB Elevations: 2302.50
Drilling Measured From K.B. @ 18.5 FEET DF 2301.50
GL 2284.00

Date	11-SEPT-2012
Run Number	ONE
Depth Driller	9217.00 feet
Depth Logger	9217.00 feet
First Reading	9188.00 feet
Last Reading	5236.00 feet
Casing Driller	5245.00 feet
Casing Logger	5236.00 feet
Bit Size	6.125 inches
Hole Fluid Type	WBM
Density / Viscosity	9.00 g/cc 38.00 CP
PH / Fluid Loss	8.50 4.00 ml/30Min
Sample Source	FLOWLINE
Rm @ Measured Temp	0.51 @ 79.8 ohm-m
Rmf @ Measured Temp	0.41 @ 79.8 ohm-m
Rmc @ Measured Temp	0.61 @ 79.8 ohm-m
Source Rmf / Rmc	CALC CALC
Rm @ BHT	0.33 @ 125.0 ohm-m
Time Since Circulation	1.5 HOUR
Max Recorded Temp	125.00 deg F
Equipment Name	COMPACT
Equipment / Base	18063 OKC
Recorded By	KYLE SALLER
Witnessed By	JOHN
S.O. # / JOB #	3535499

BOREHOLE RECORD Last Edited: 12-SEP-2012 03:52

Bit Size inches	Depth From feet	Depth To feet
6.125	5245.00	9217.00

CASING RECORD

Type	Size inches	Depth From feet	Shoe Depth feet	Weight pounds/ft
INTERMED	7.000	0.00	5245.00	23.00

REMARKS

LOGGED WITH WLS VER 13.02.6600 SOFTWARE

WELL LOGGED USING 200V MEMORY MESSENGER DEPLOYMENT SYSTEM

HARDWARE: MPD: 4"PROFILE PLATE, MIS-A SINGLE SPRING DECENTRALIZER BELOW
MDN: MISD DOUBLE SPRING DECENTRALIZER RAN ABOVE

2.71 G/CC DENSITY MATRIX USED TO CALCULATE POROSITY
ALL INTERVALS LOGGED AND SCALED PER CUSTOMER REQUEST

LOGGING TOOL DEPTH AFTER DEPLOYMENT: 9194FT

HOLE RUGOSITY MAY AFFECT LOG QUALITY.

4.5 INCH CASING USED TO CALCULATE ANNULAR HOLE VOLUME

BOREHOLE VOLUME TD TO INTERMEDIATE CASING = 865 CUFT
ANNULAR VOLUME FROM TD TO INTERMEDIATE CASING = 430 CU FT

LAT: 37.7180
LONG: -99.5853

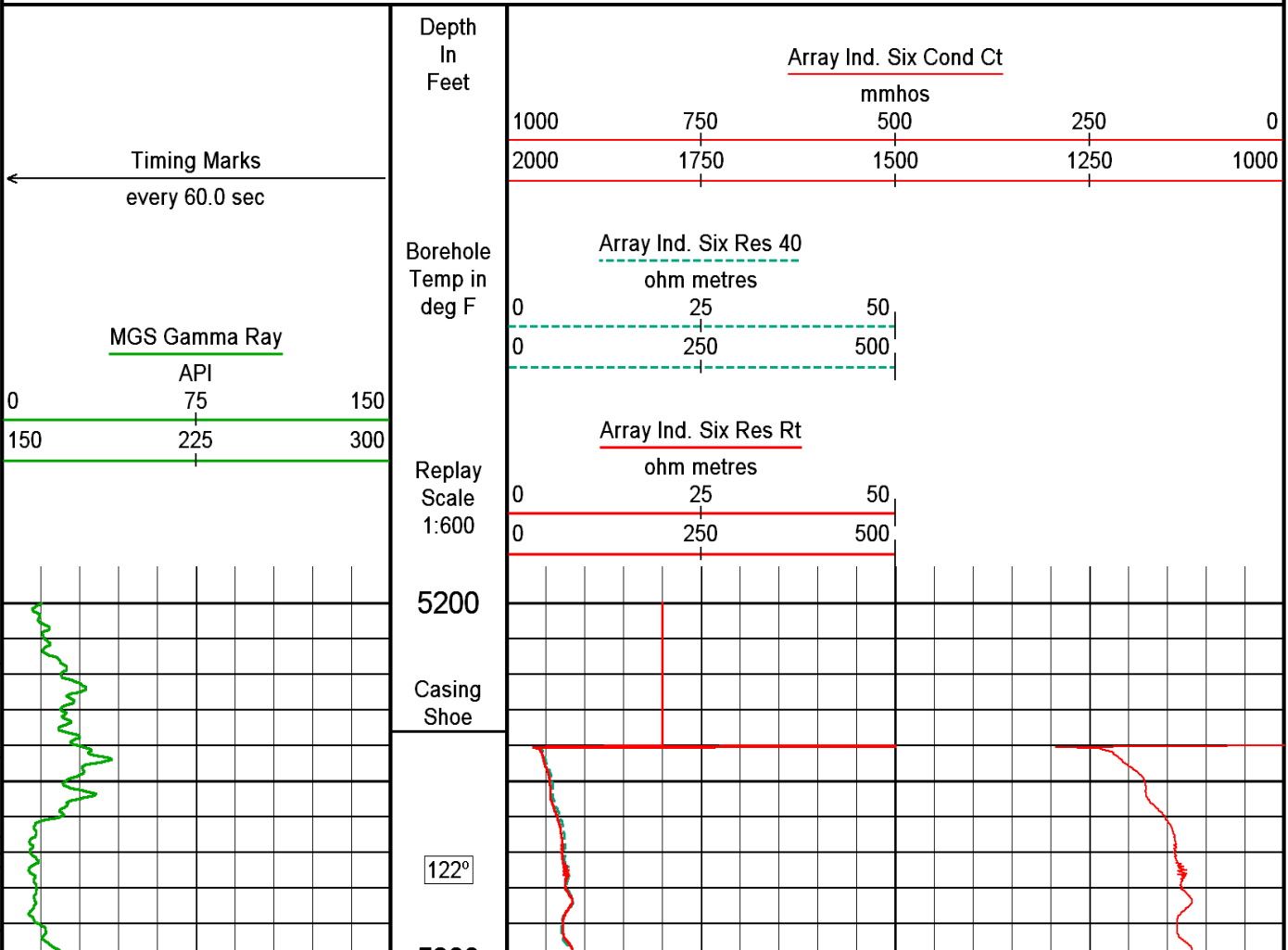
SERVICE ORDER # 3535499
RIG: LARIAT 41

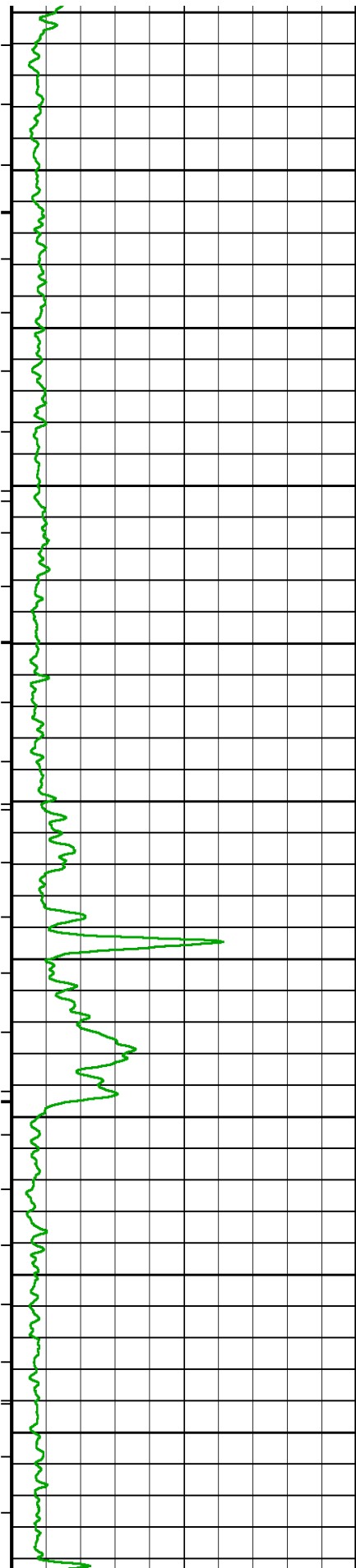
OPERATORS: J. GOODMAN, B. PECK

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 interpretations, and we shall not, except in the case of gross or wilful negligence on our part, be liable or responsible for any loss, costs, damages or expenses incurred or sustained by anyone resulting from any interpretation made by any of our officers, agents or employees. These interpretations are also subject to our general terms and conditions in our price schedule.

2 INCH MAIN LOG DSC

Depth Based Data - Maximum Sampling Increment 10.0cm
Filename: C:\Minimus\Logs\Sandridge\Jochems 2721 2-2H\Jochems 2721 2-2H DEPTH_RTAP5.dta
System Versions: Processed with 13.02.6600 Plotted with 13.02.6600
Plotted on 12-SEP-2012 04:46
Recorded on 11-SEP-2012 22:58





5300

123°

5400

123°

5500

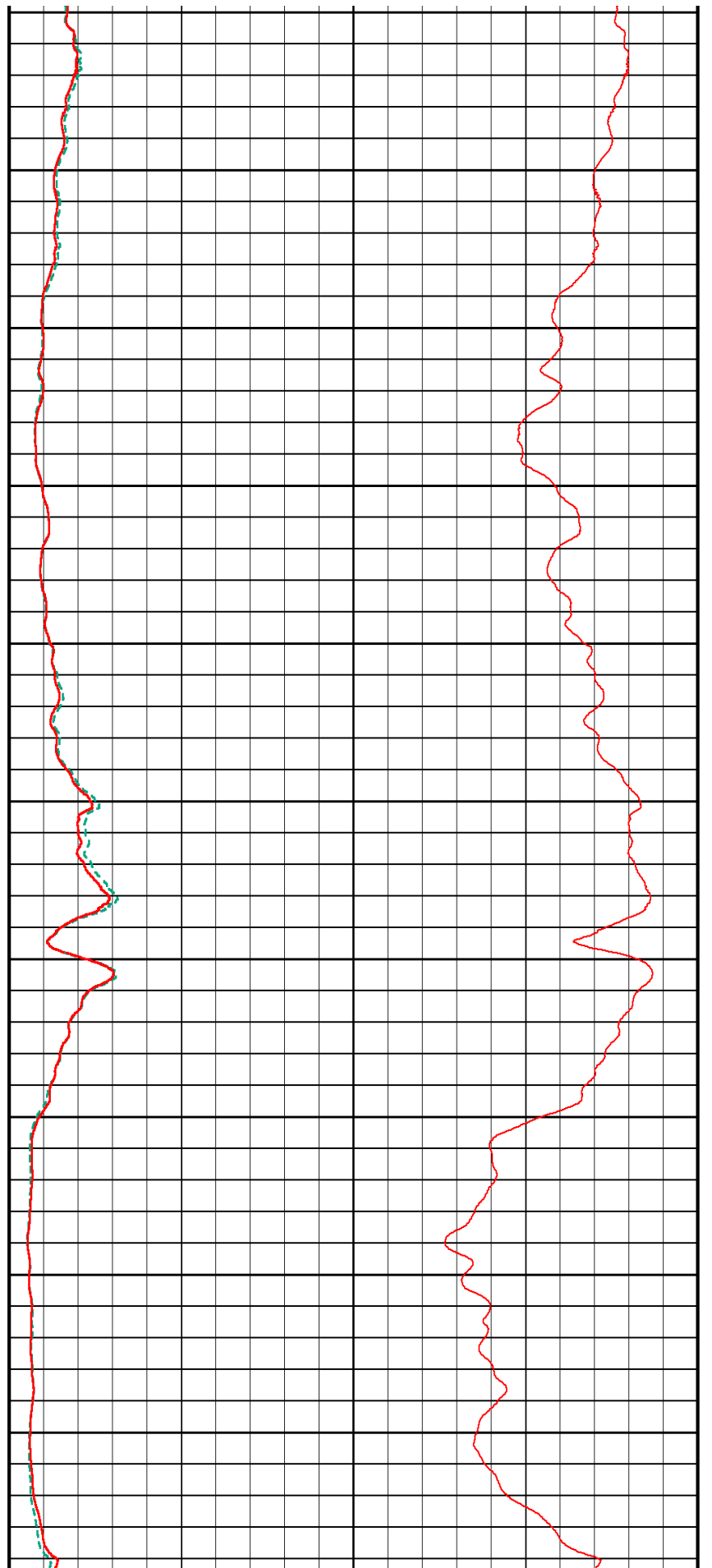
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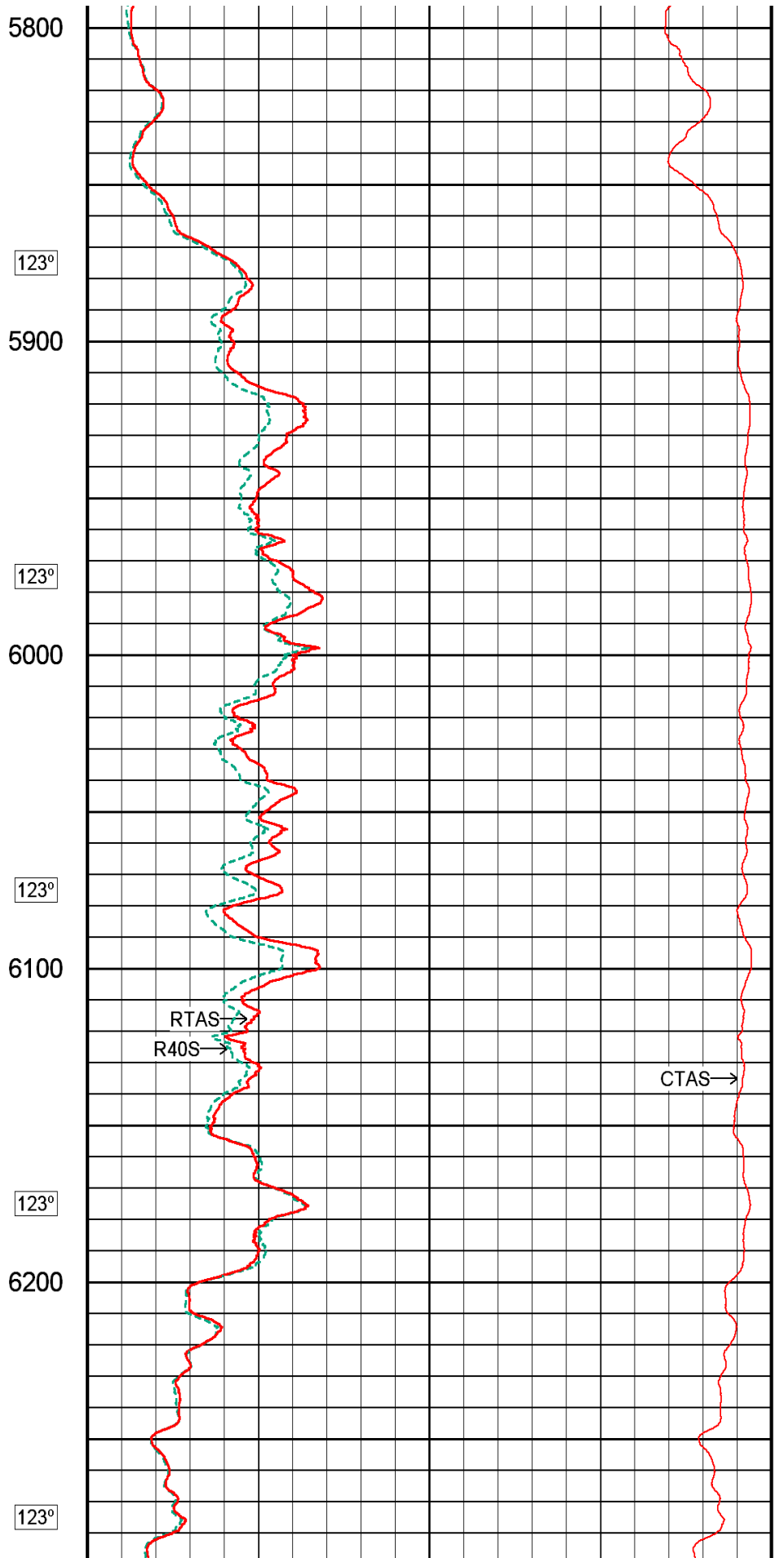
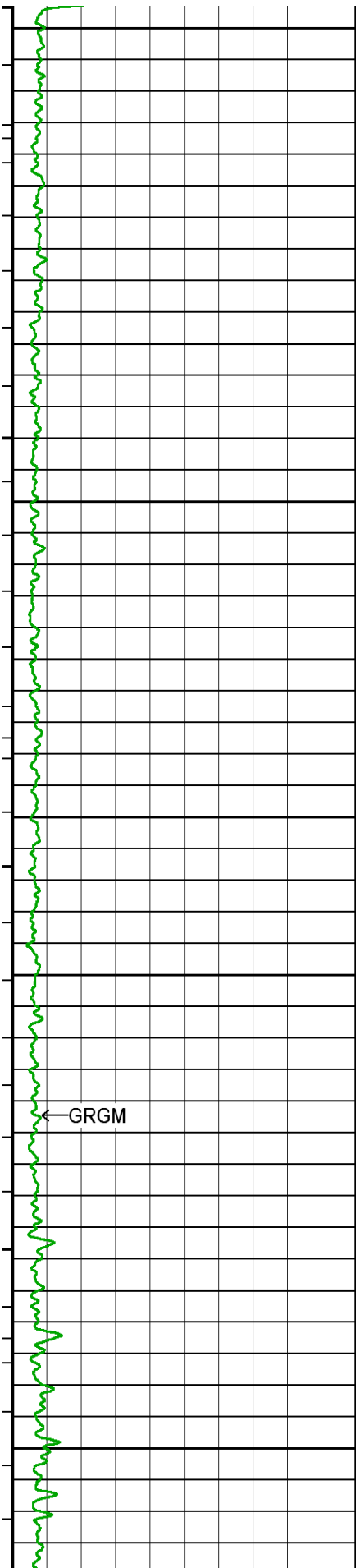
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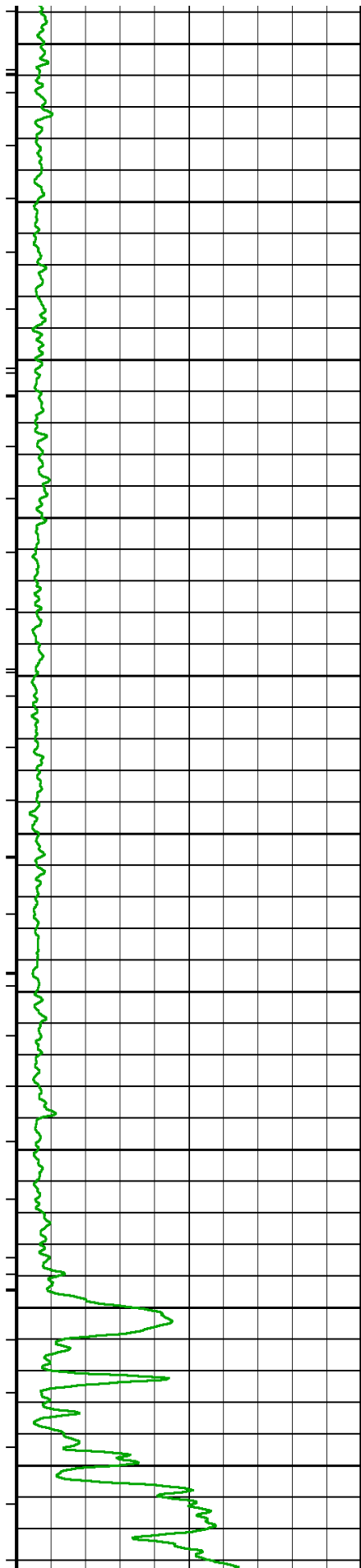
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5700

123°







6300

123°

6400

123°

6500

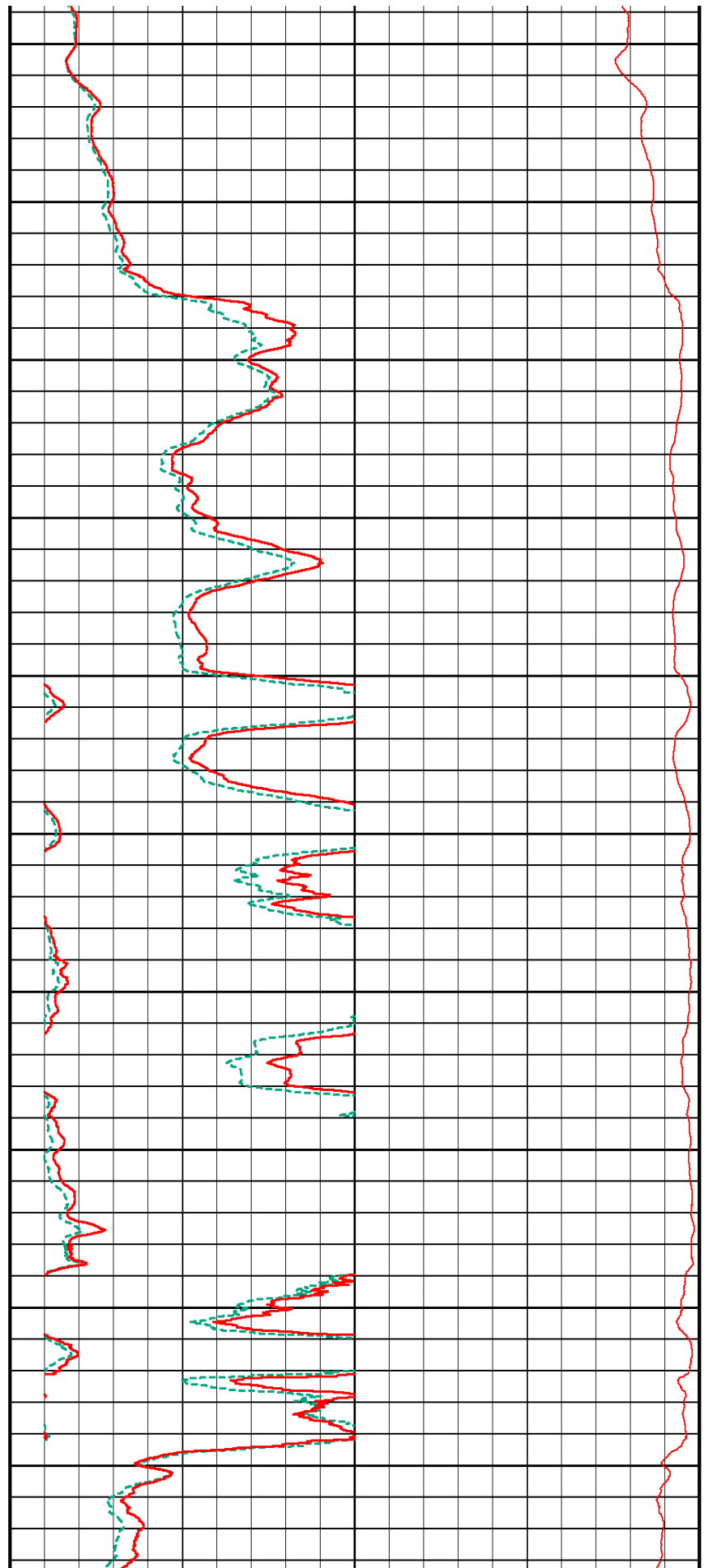
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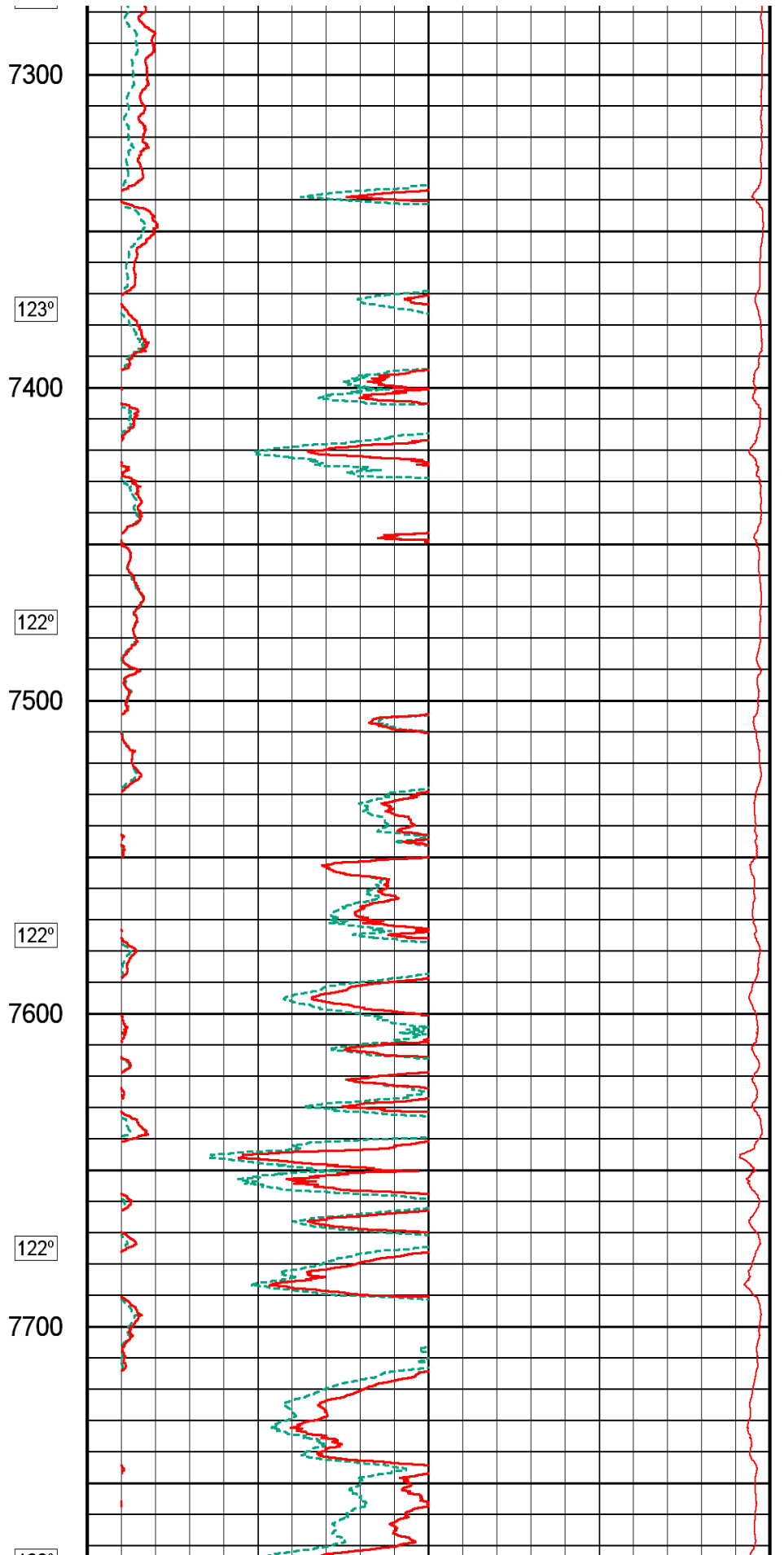
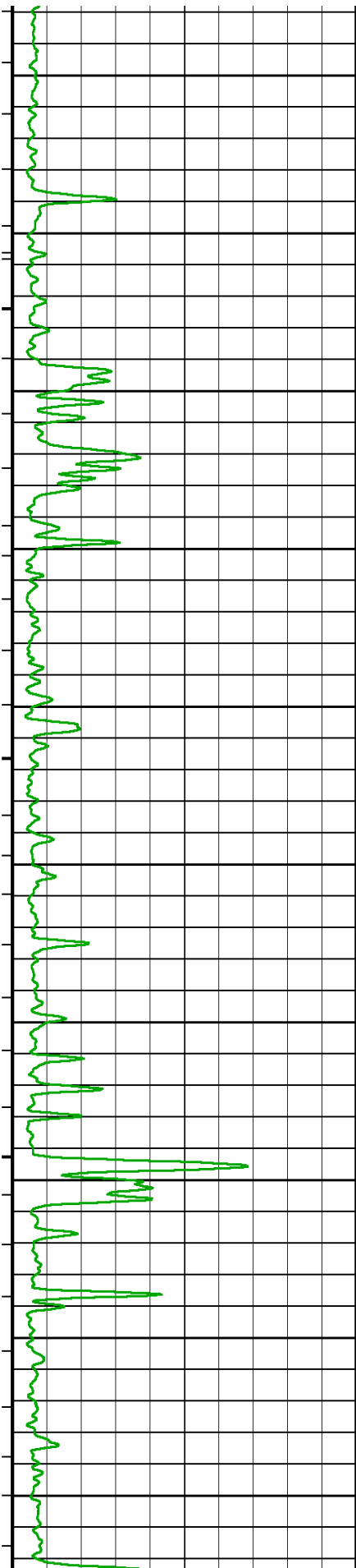
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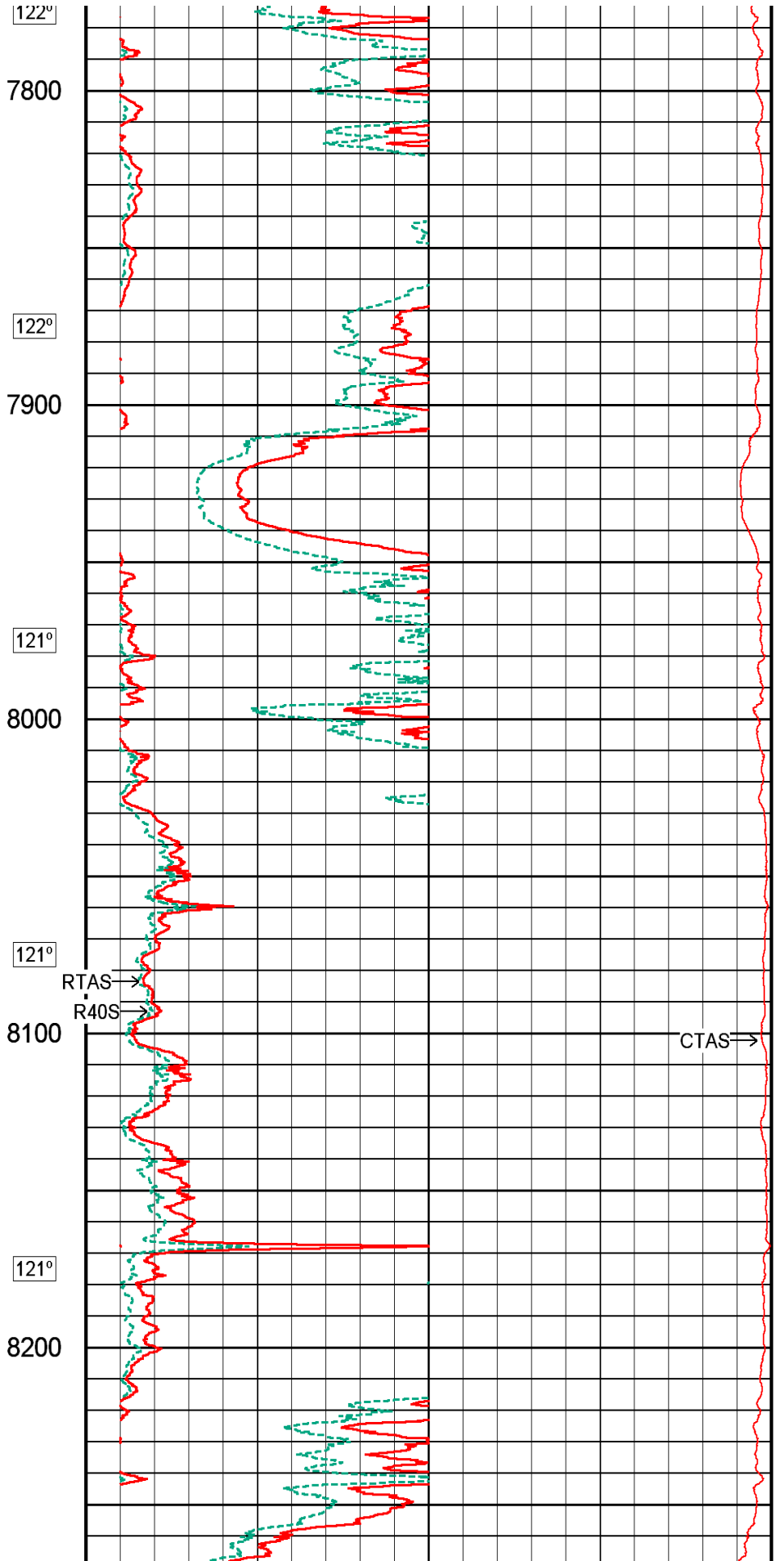
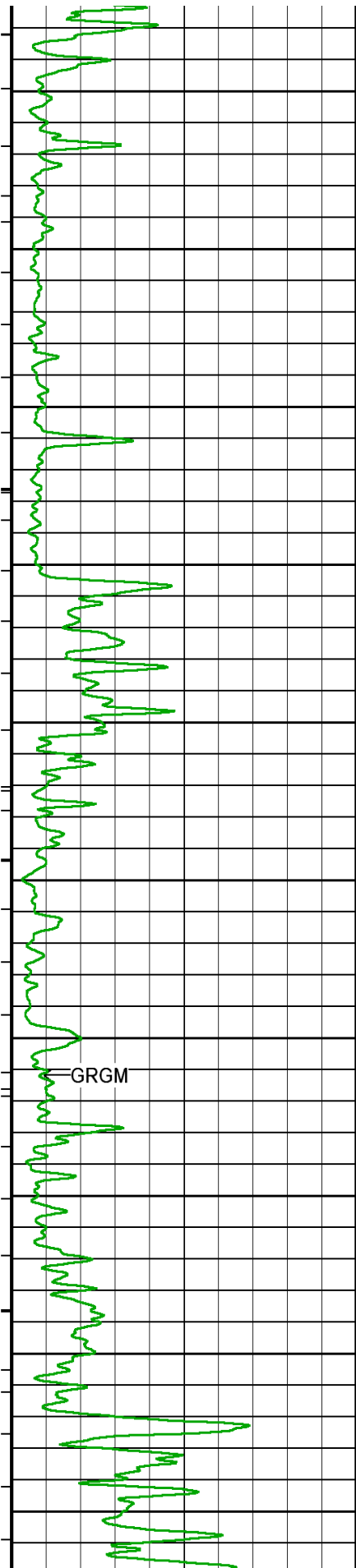
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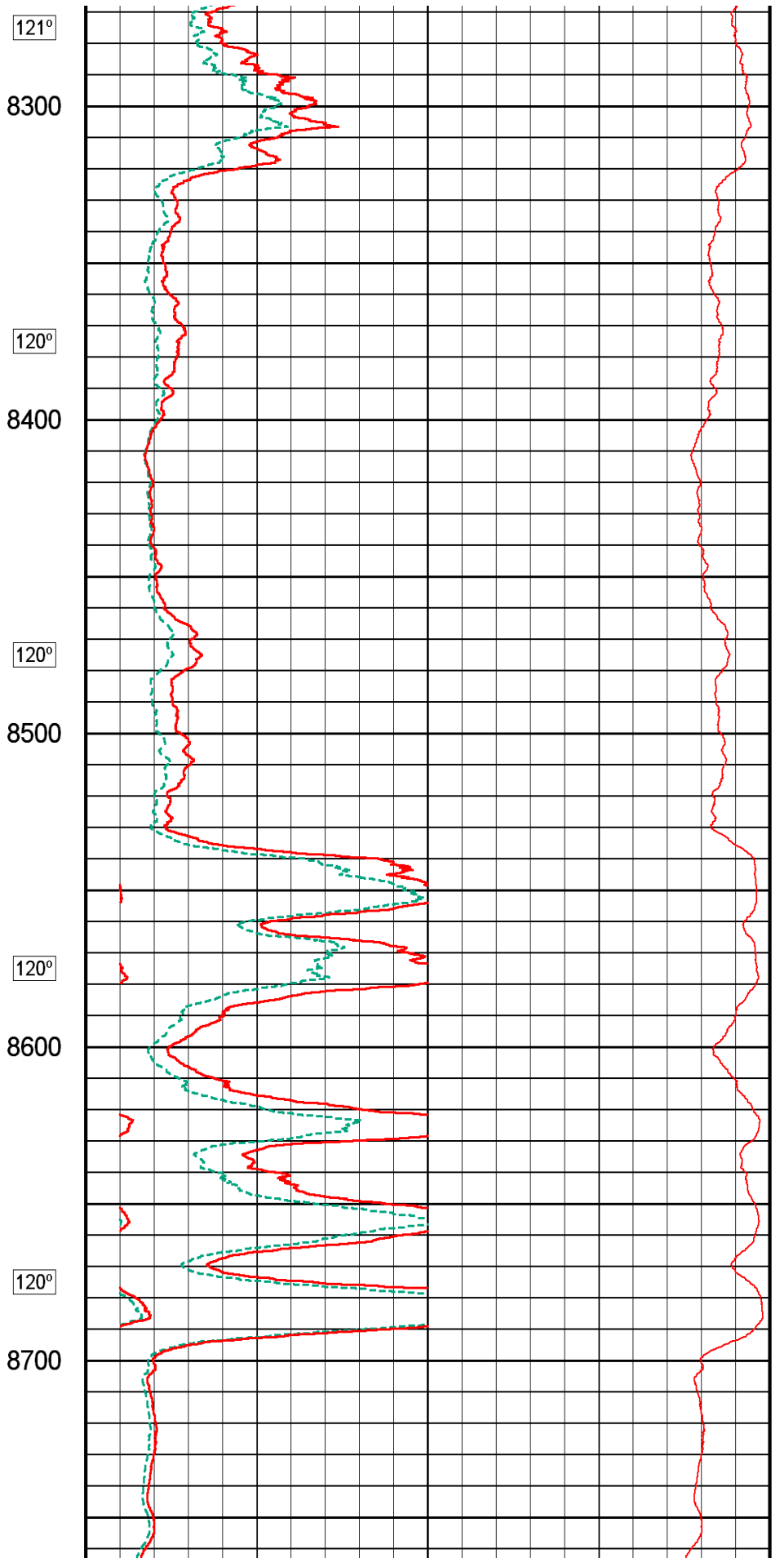
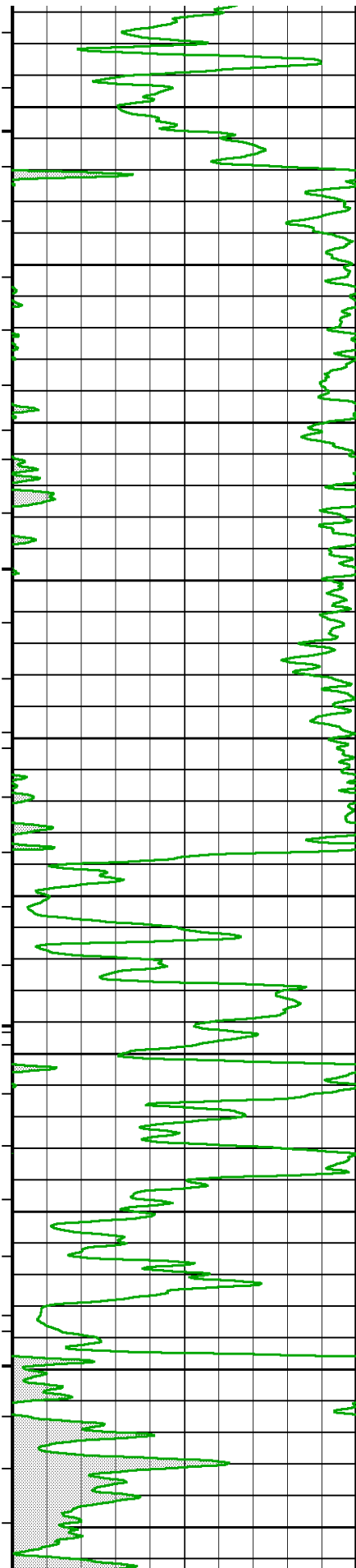
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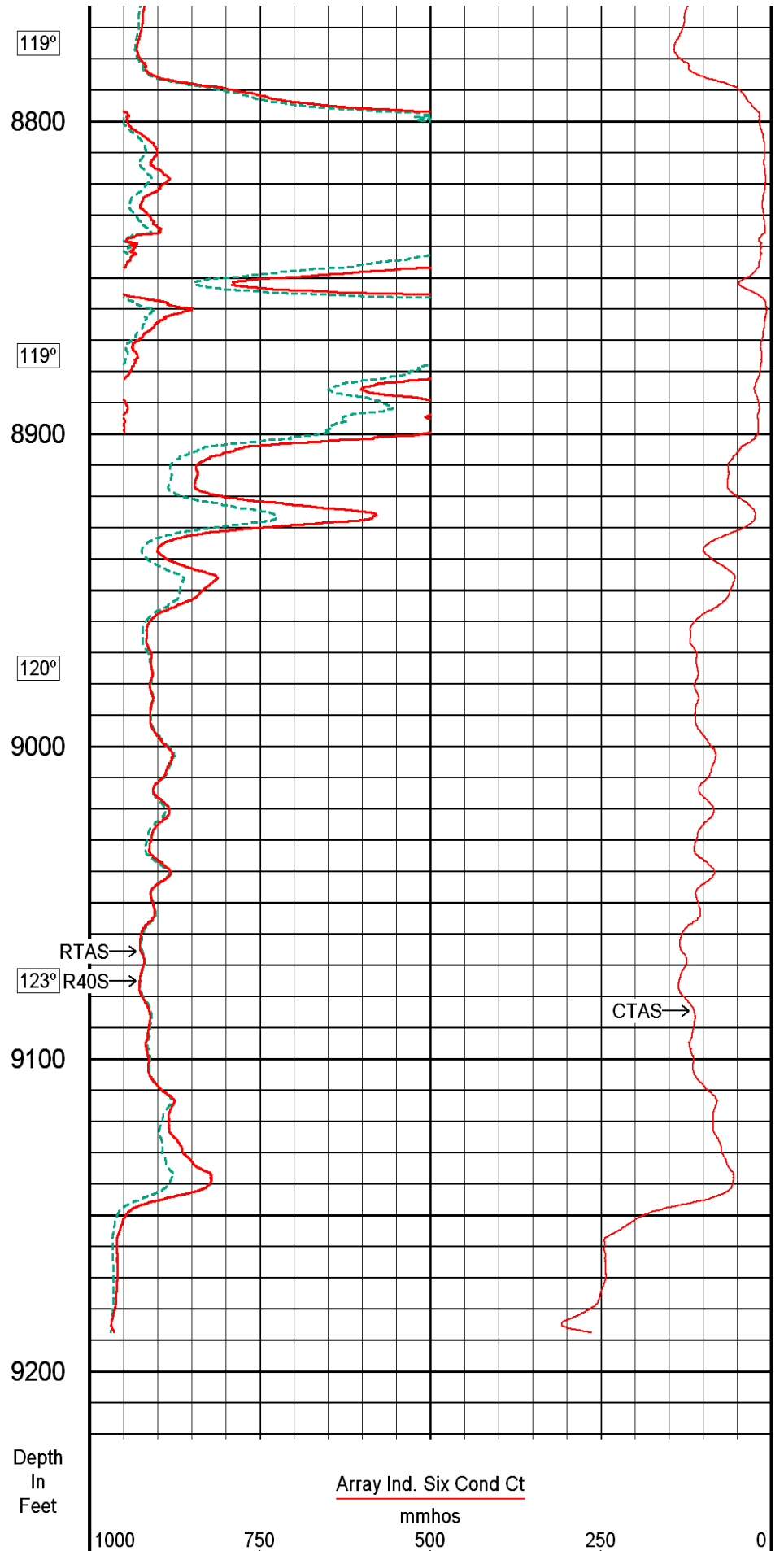
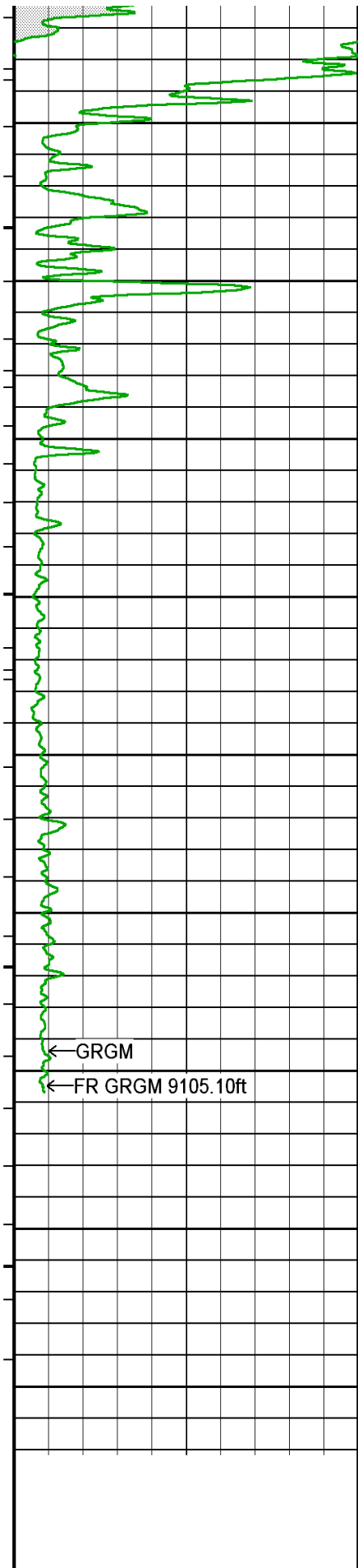
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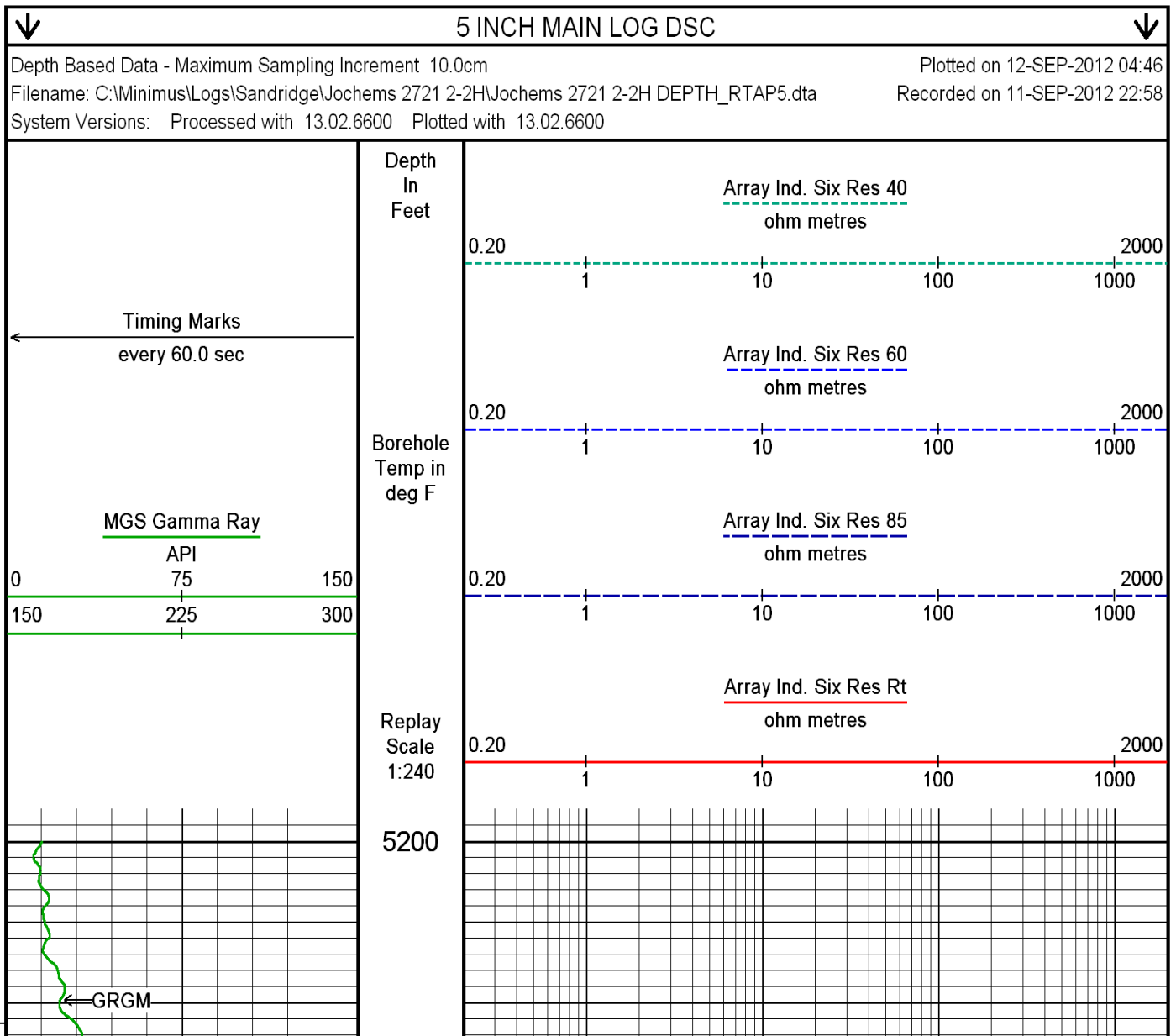
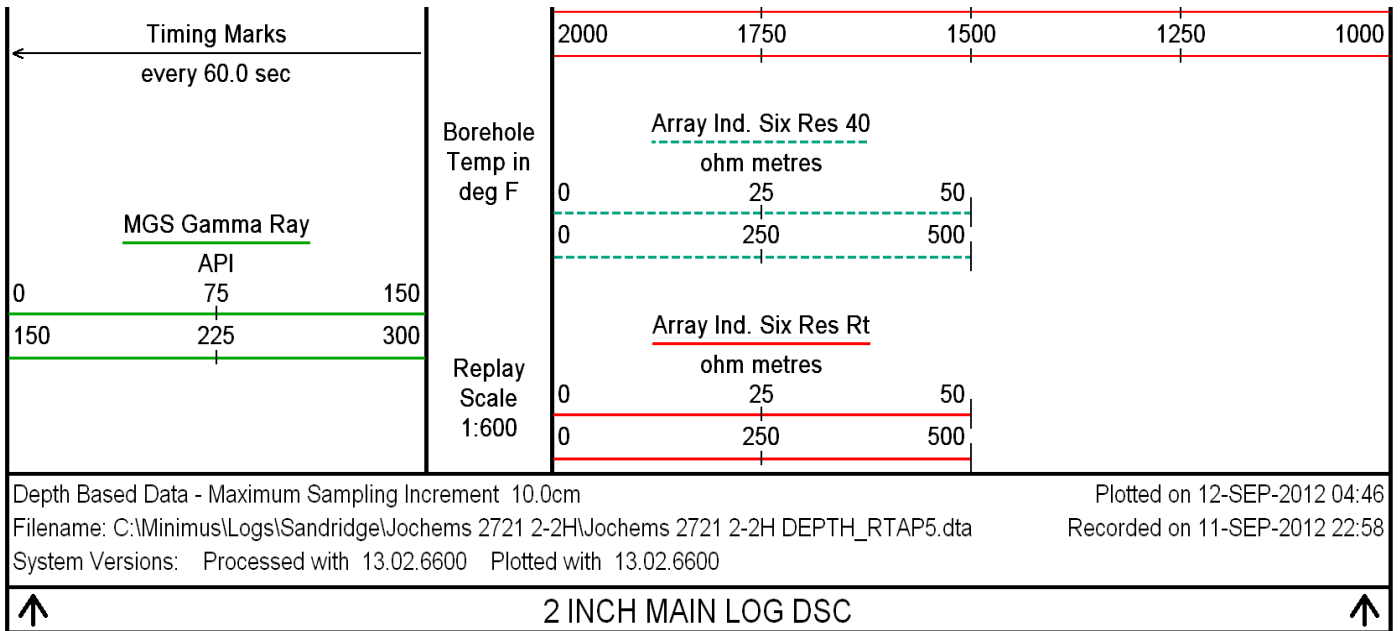


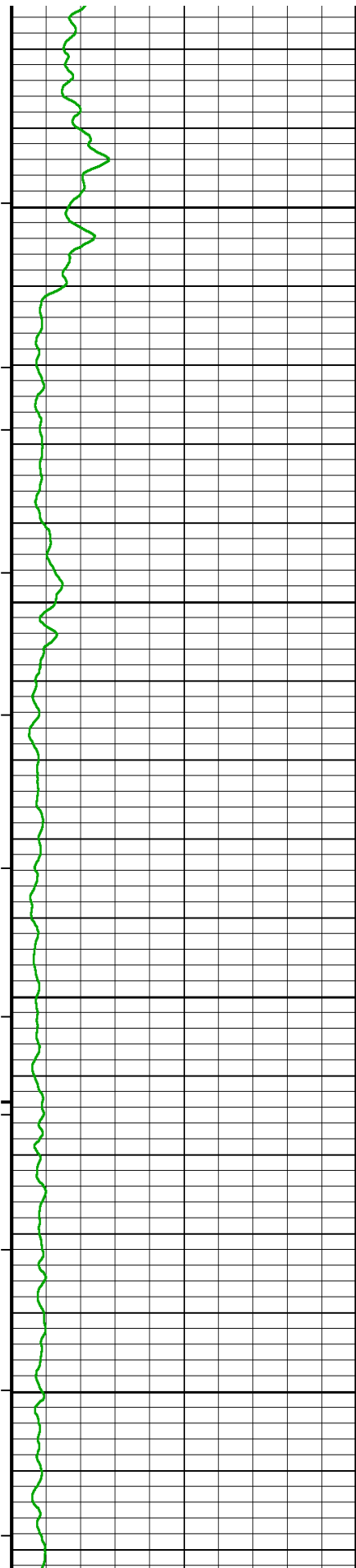












Casing Shoe

122°

5250

122°

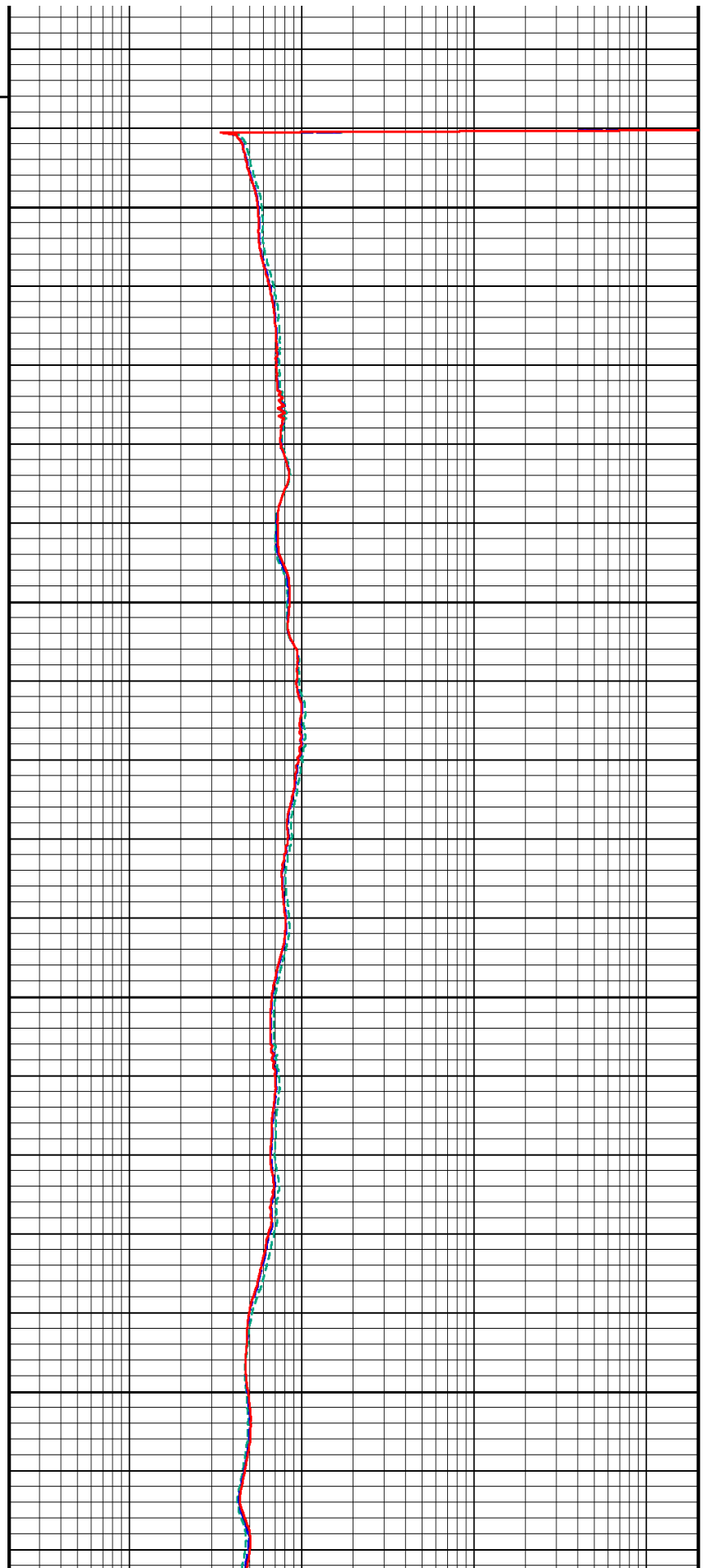
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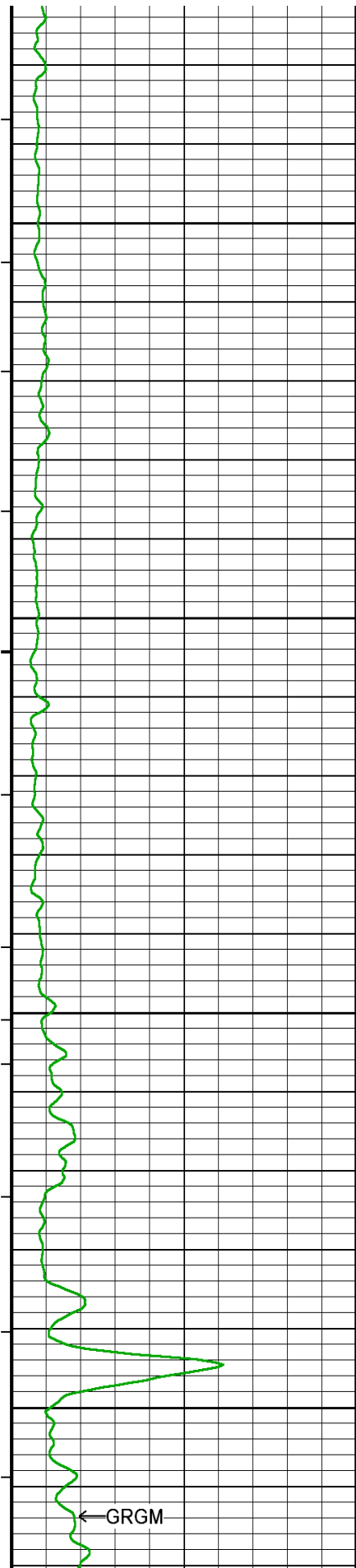
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5350

123°

5400





123°

5450

123°

5500

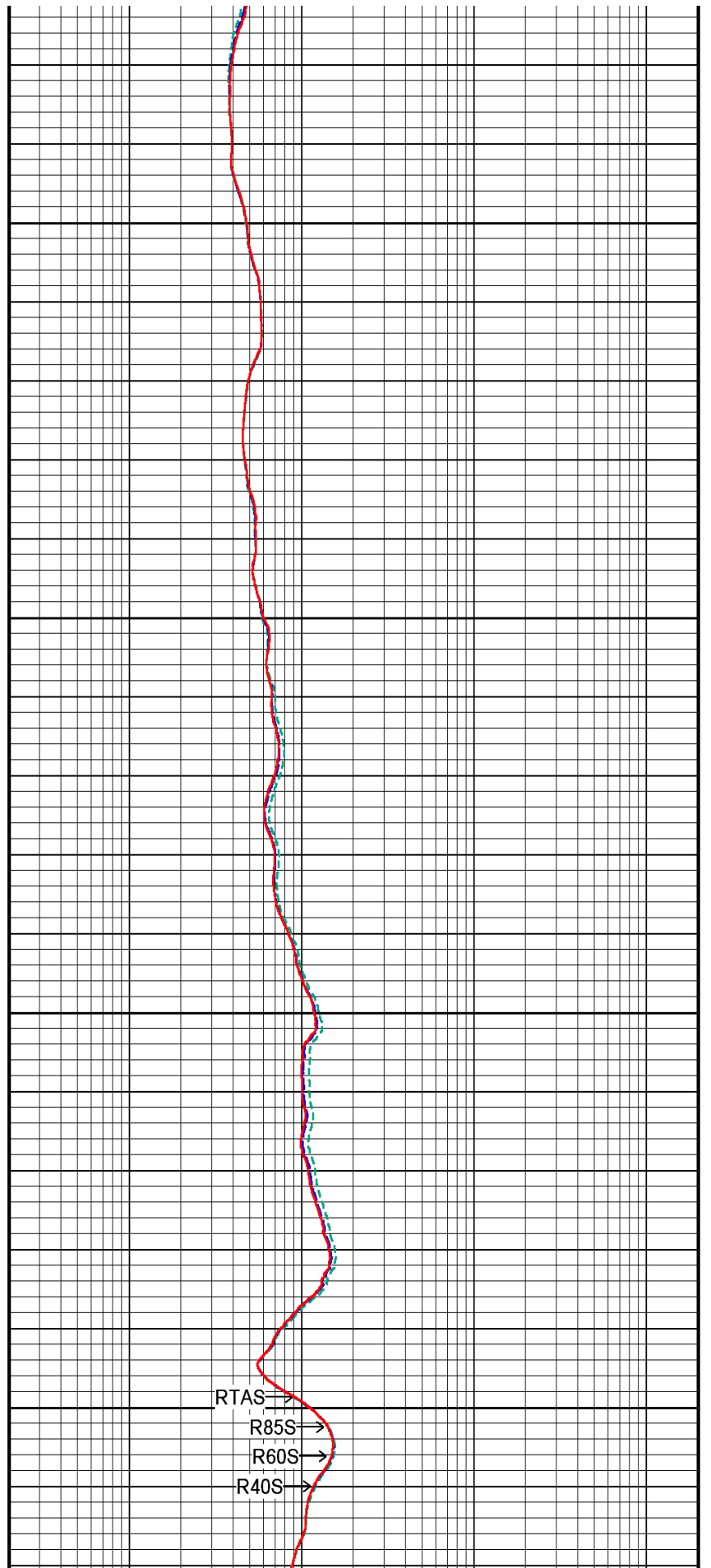
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5550

123°

5600

← GRGM

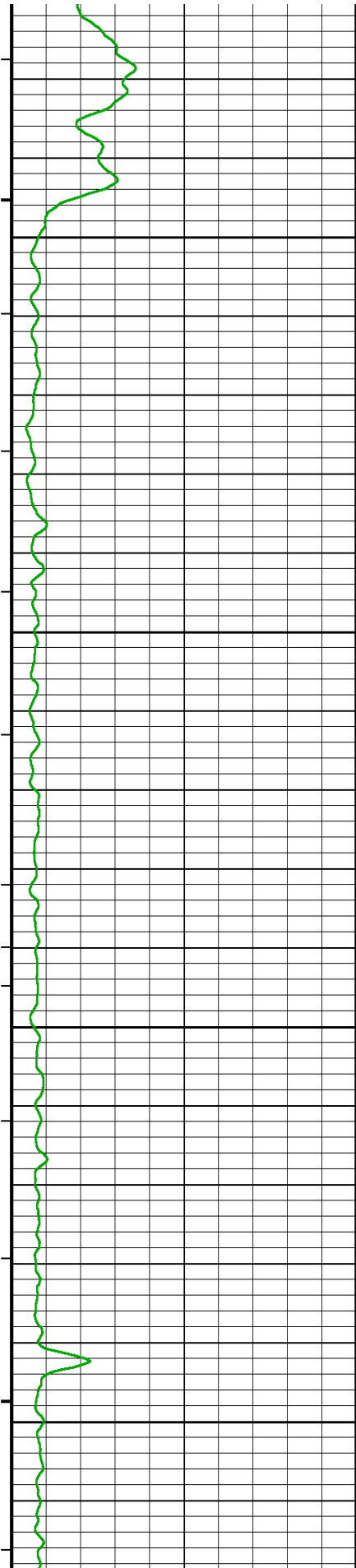


RTAS

R85S

R60S

R40S



123°

5650

123°

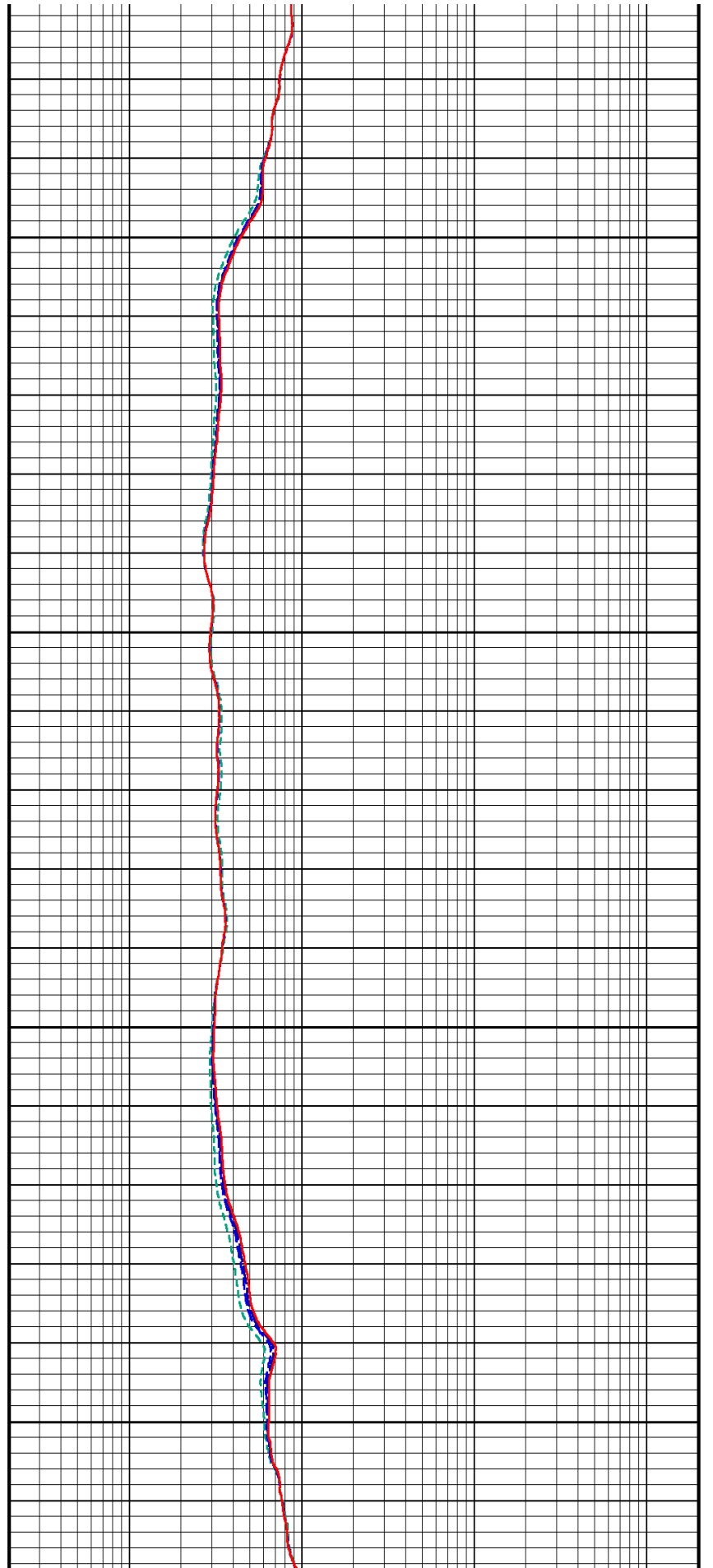
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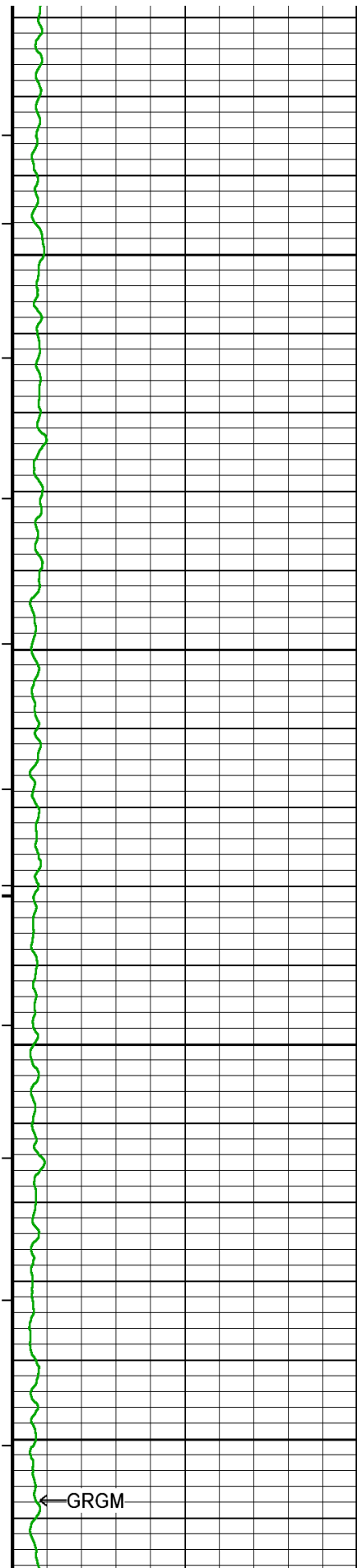
123°

5750

123°

5800





123°

5850

123°

5900

123°

5950

123°

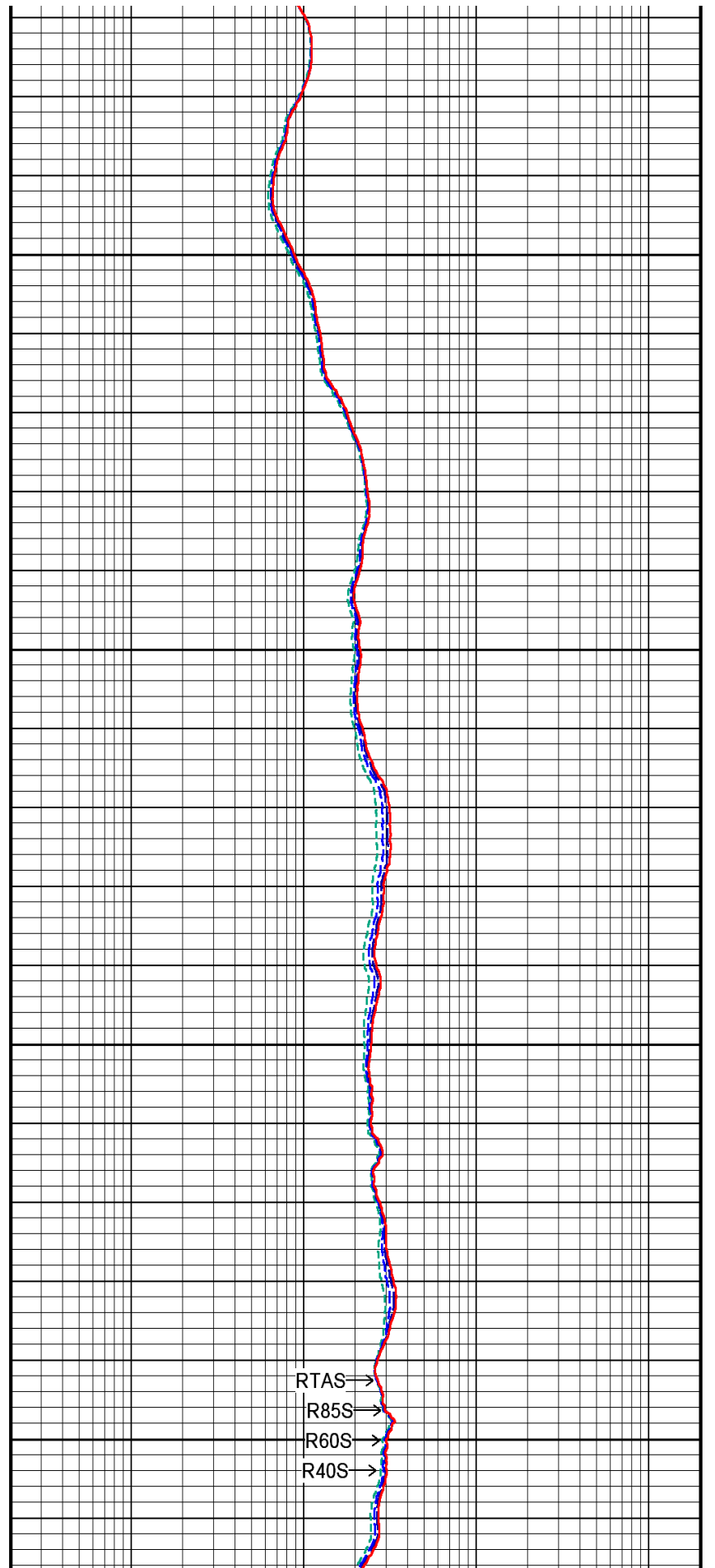
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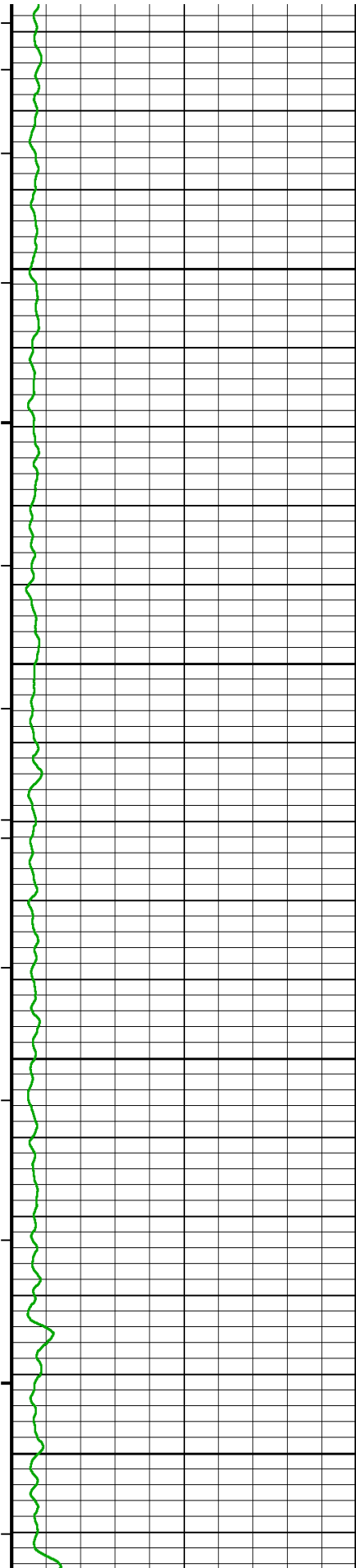
RTAS →

R85S →

R60S →

R40S →





123°

6050

123°

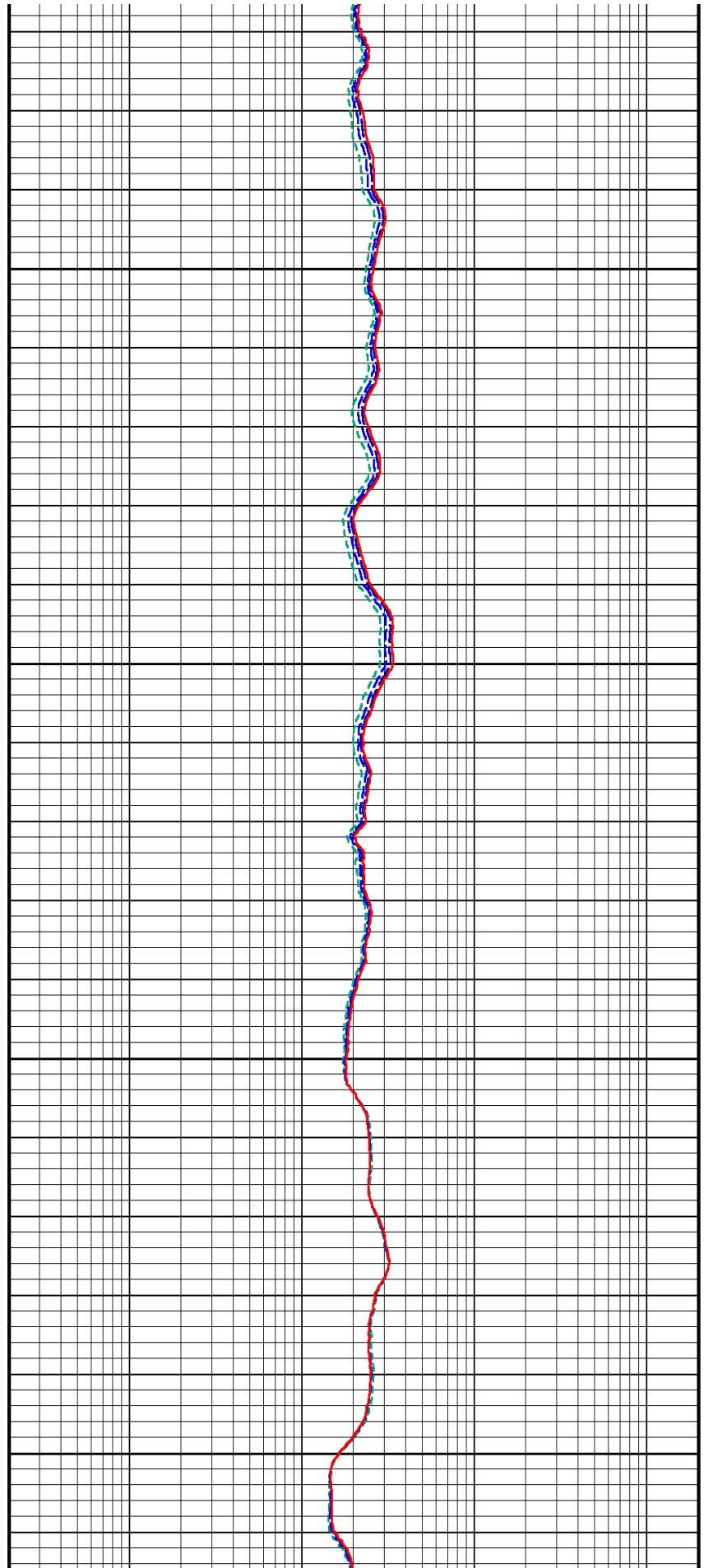
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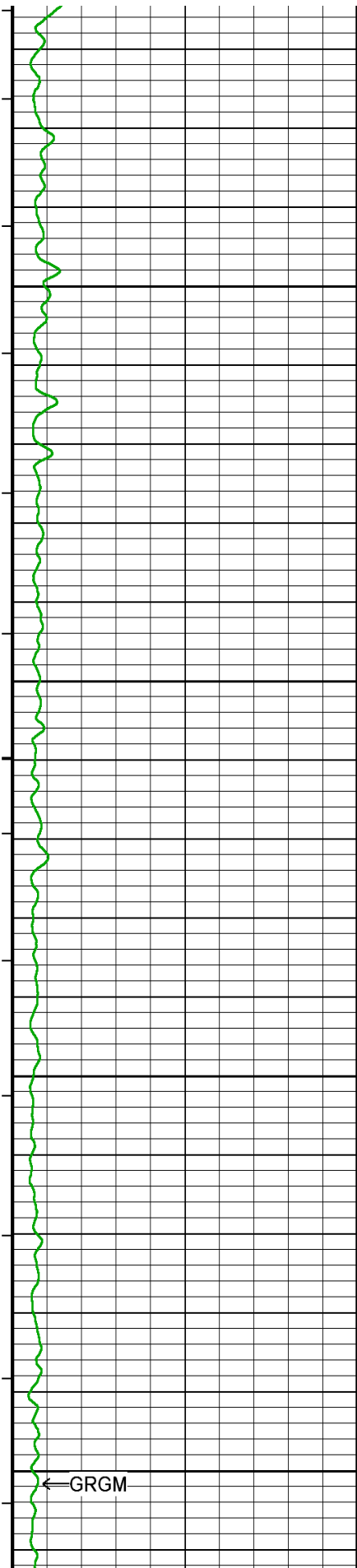
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6150

123°

6200





123°

6250

123°

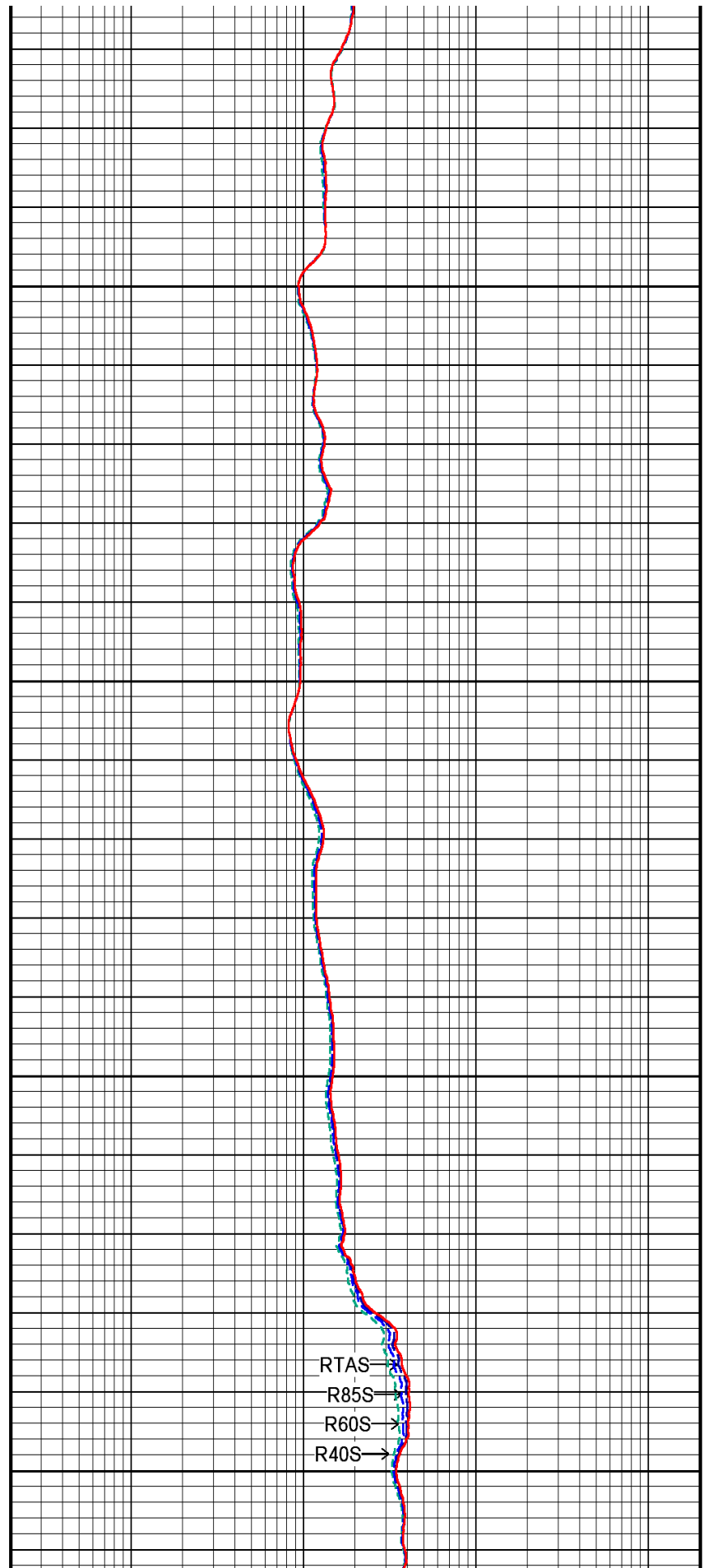
6300

123°

6350

123°

6400

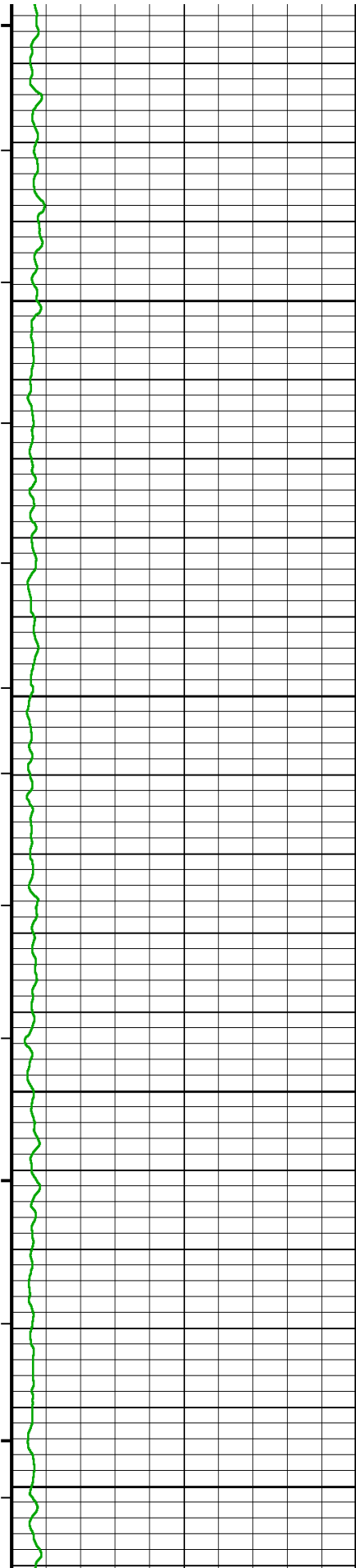


RTAS →

R85S →

R60S →

R40S →



123°

6450

123°

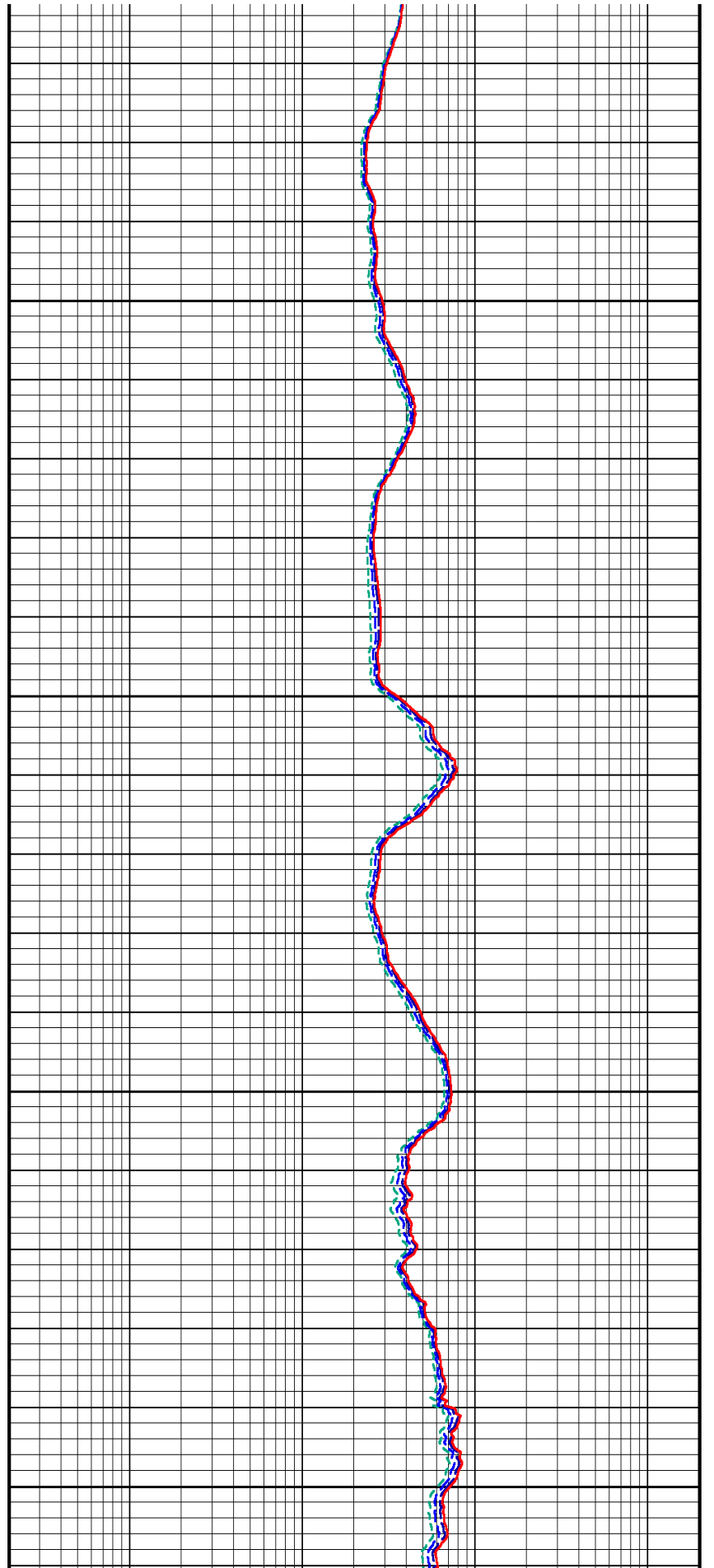
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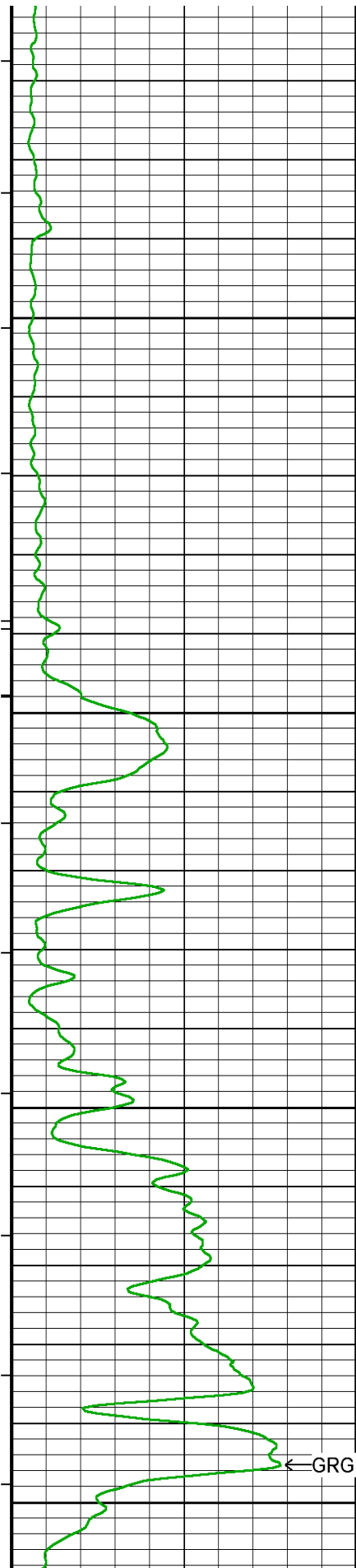
123°

6550

123°

6600





123°

6650

123°

6700

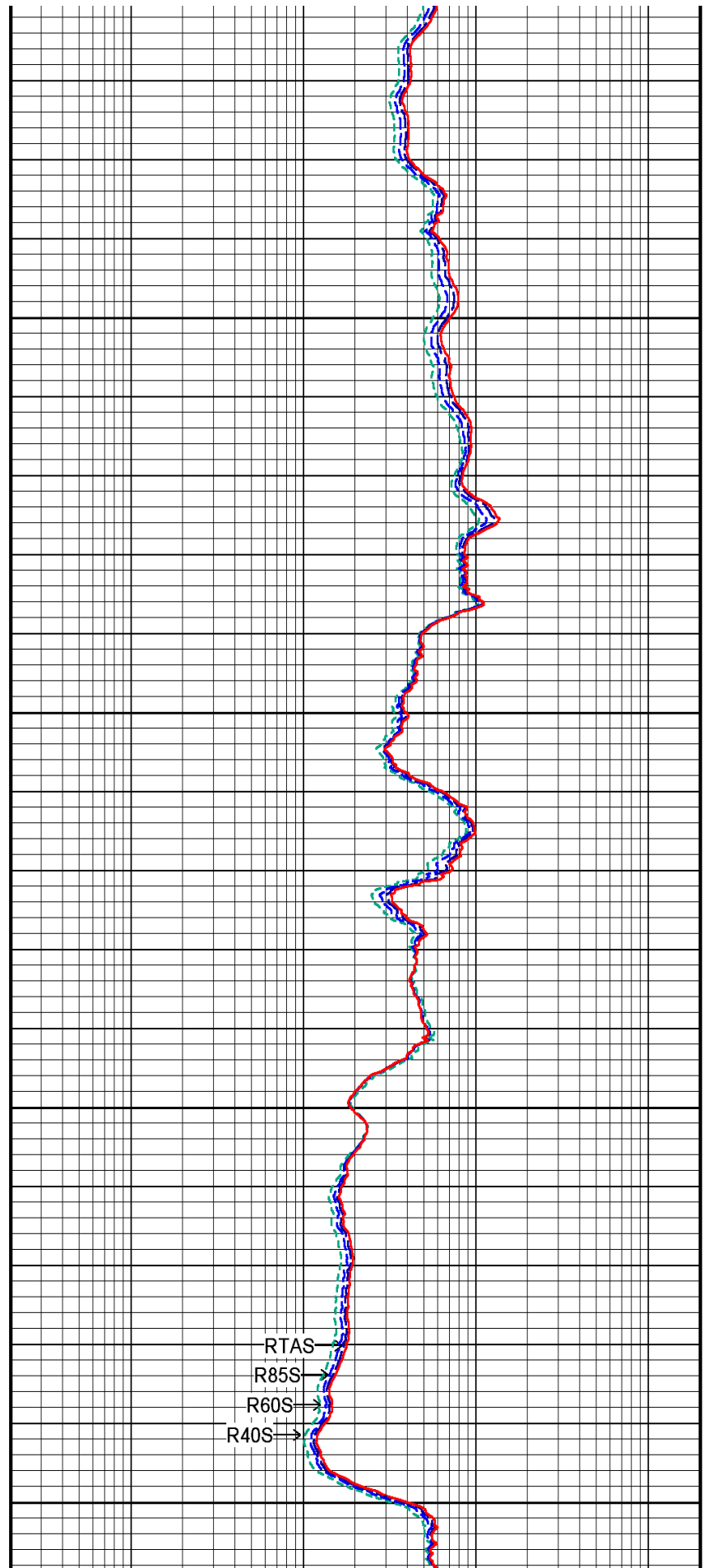
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6750

123°

← GRGM

6800

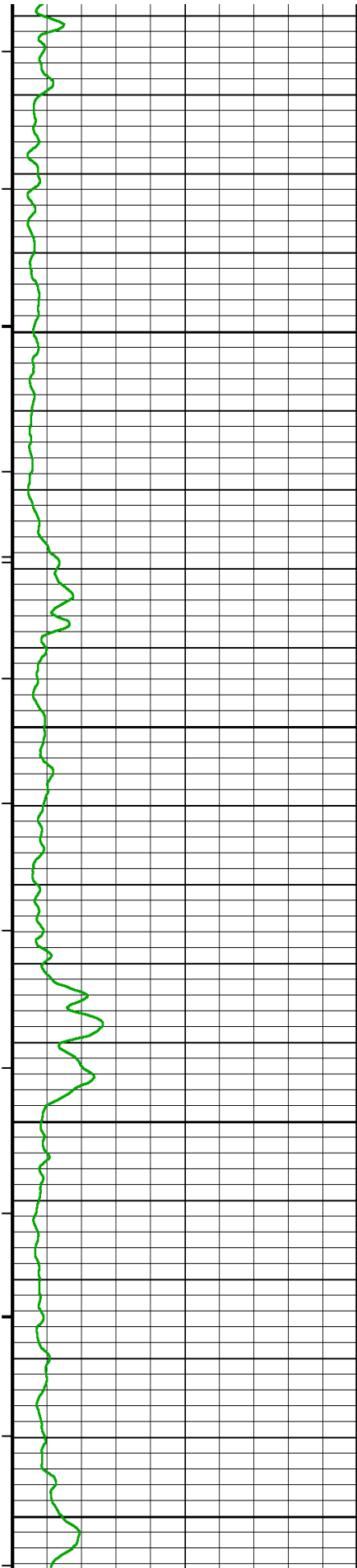


RTAS →

R85S →

R60S →

R40S →



123°

6850

123°

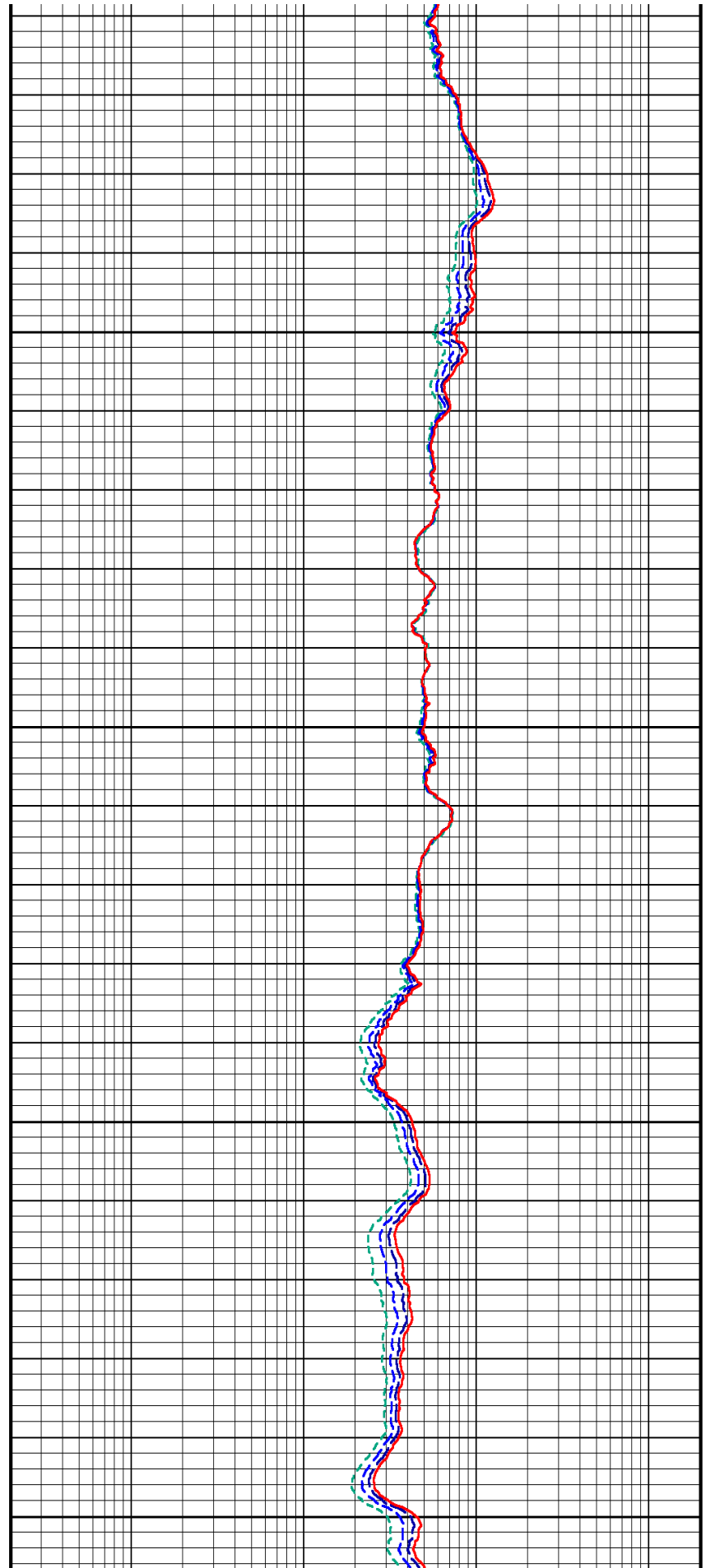
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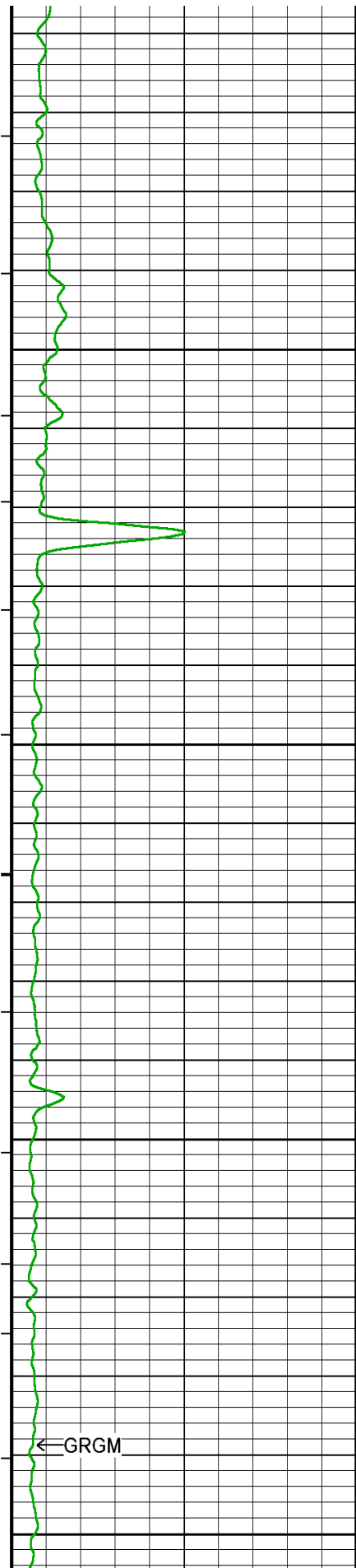
123°

6950

123°

7000





123°

7050

123°

7100

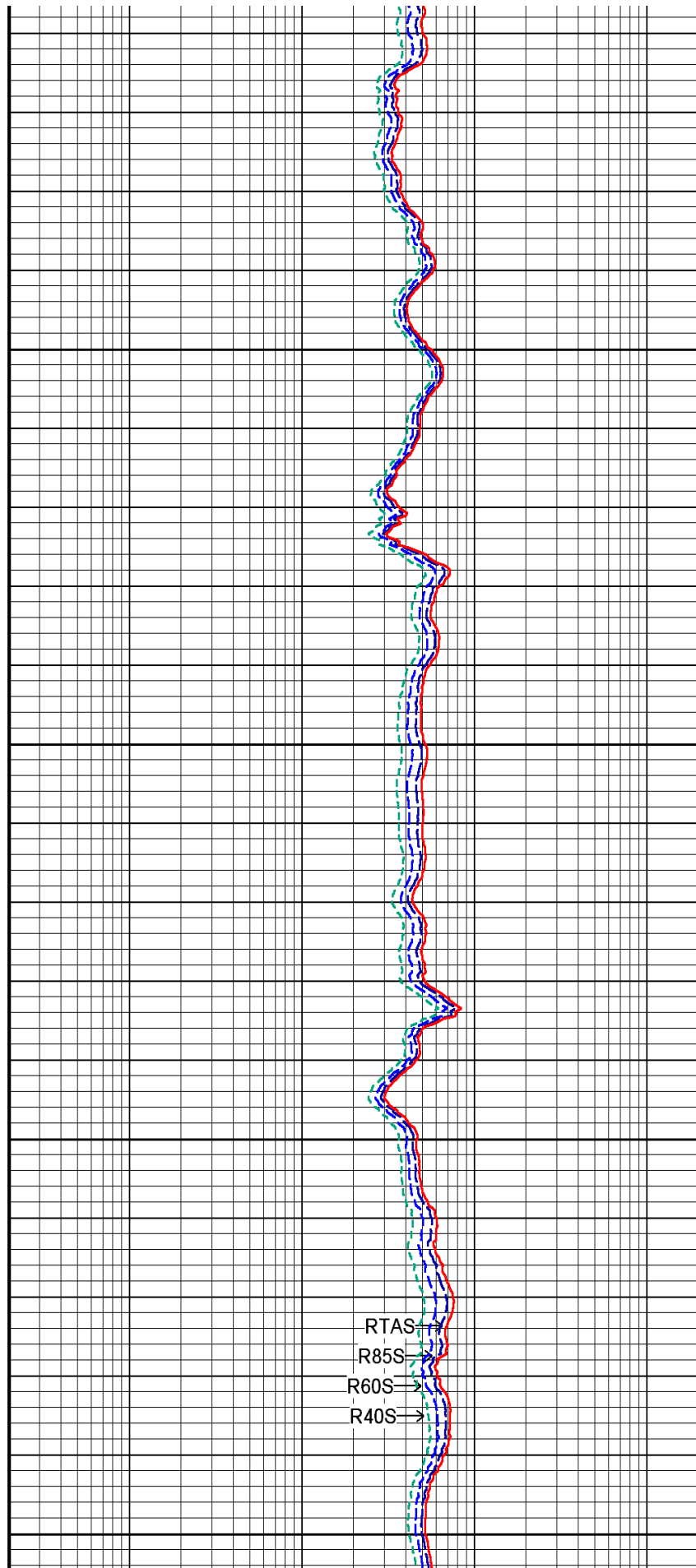
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7150

← GRGM

123°

7200

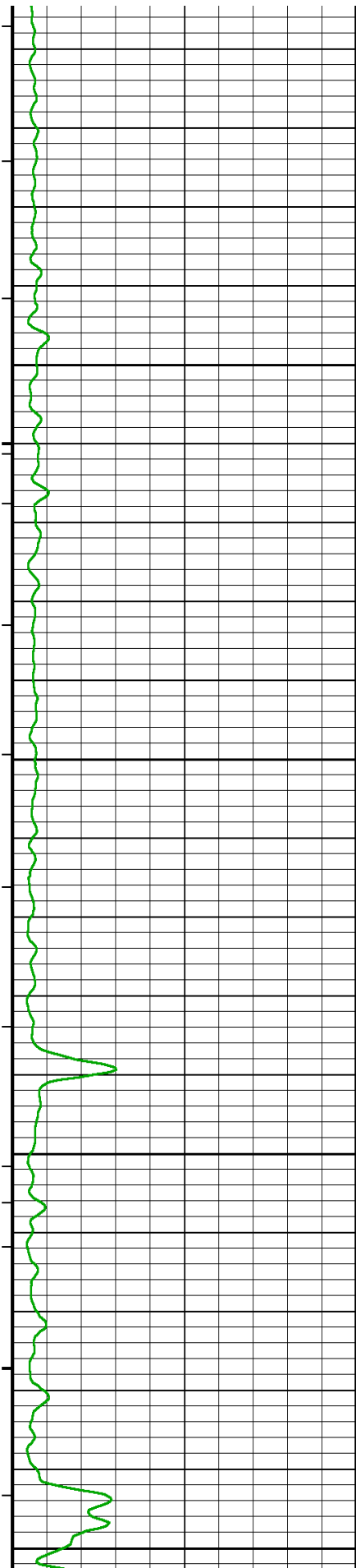


RTAS →

R85S →

R60S →

R40S →



123°

7250

123°

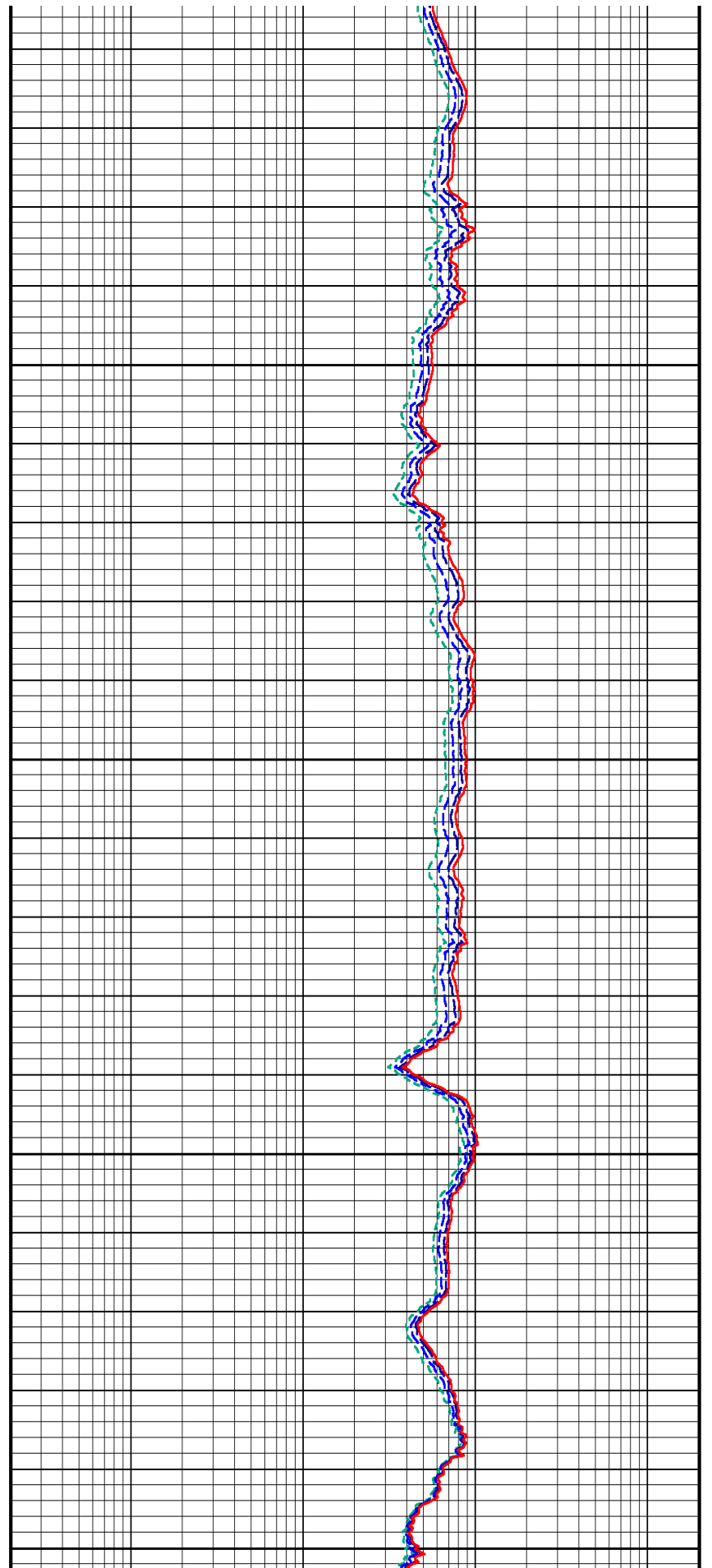
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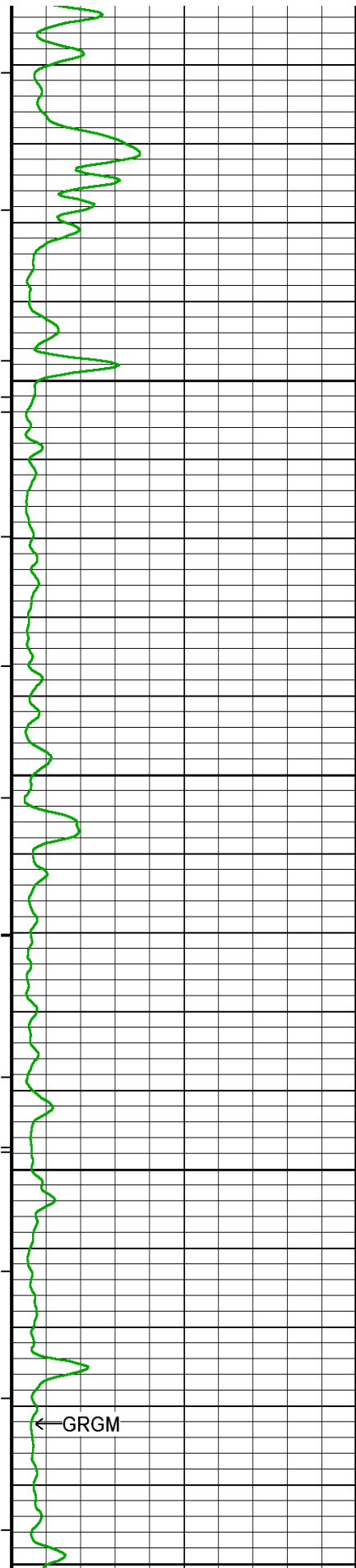
123°

7350

123°

7400





122°

7450

122°

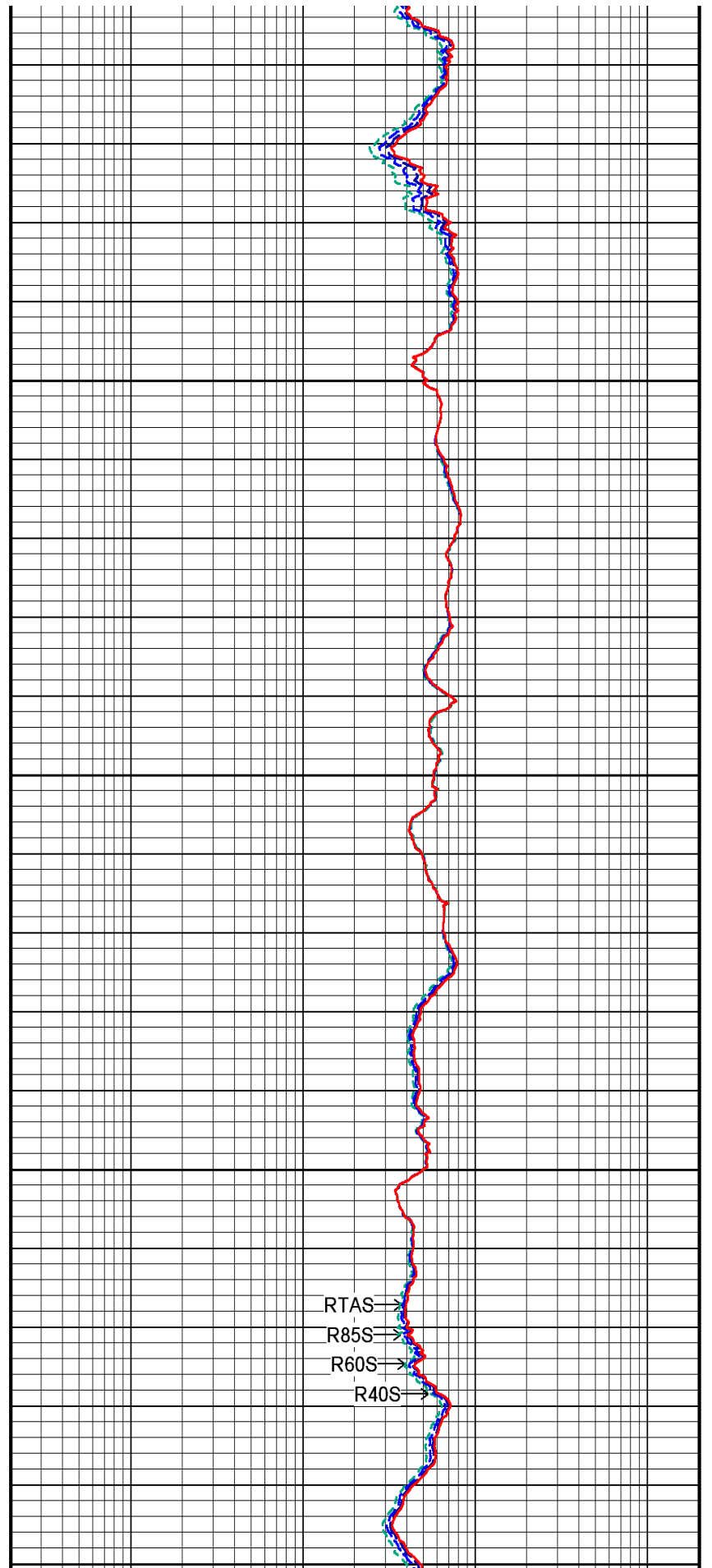
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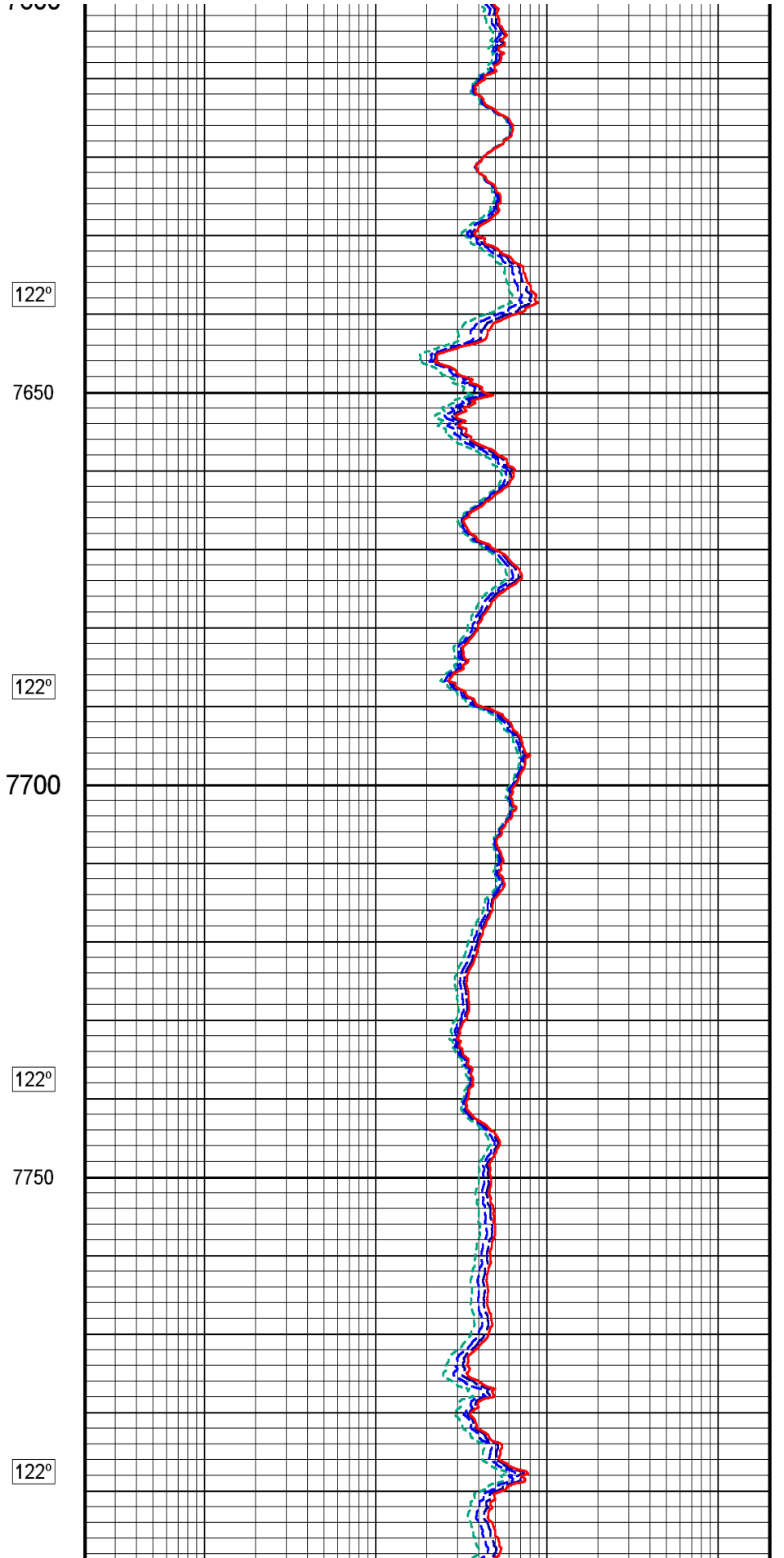
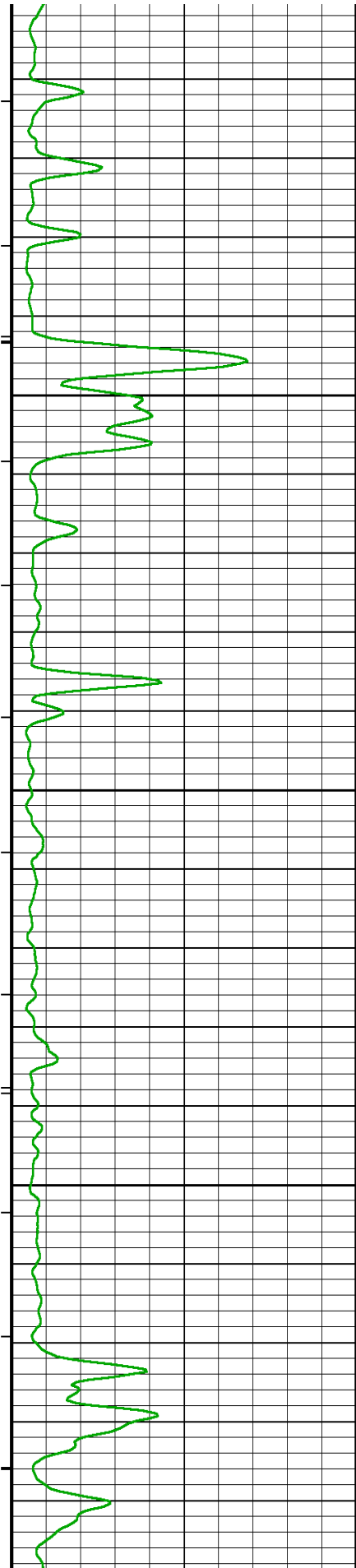
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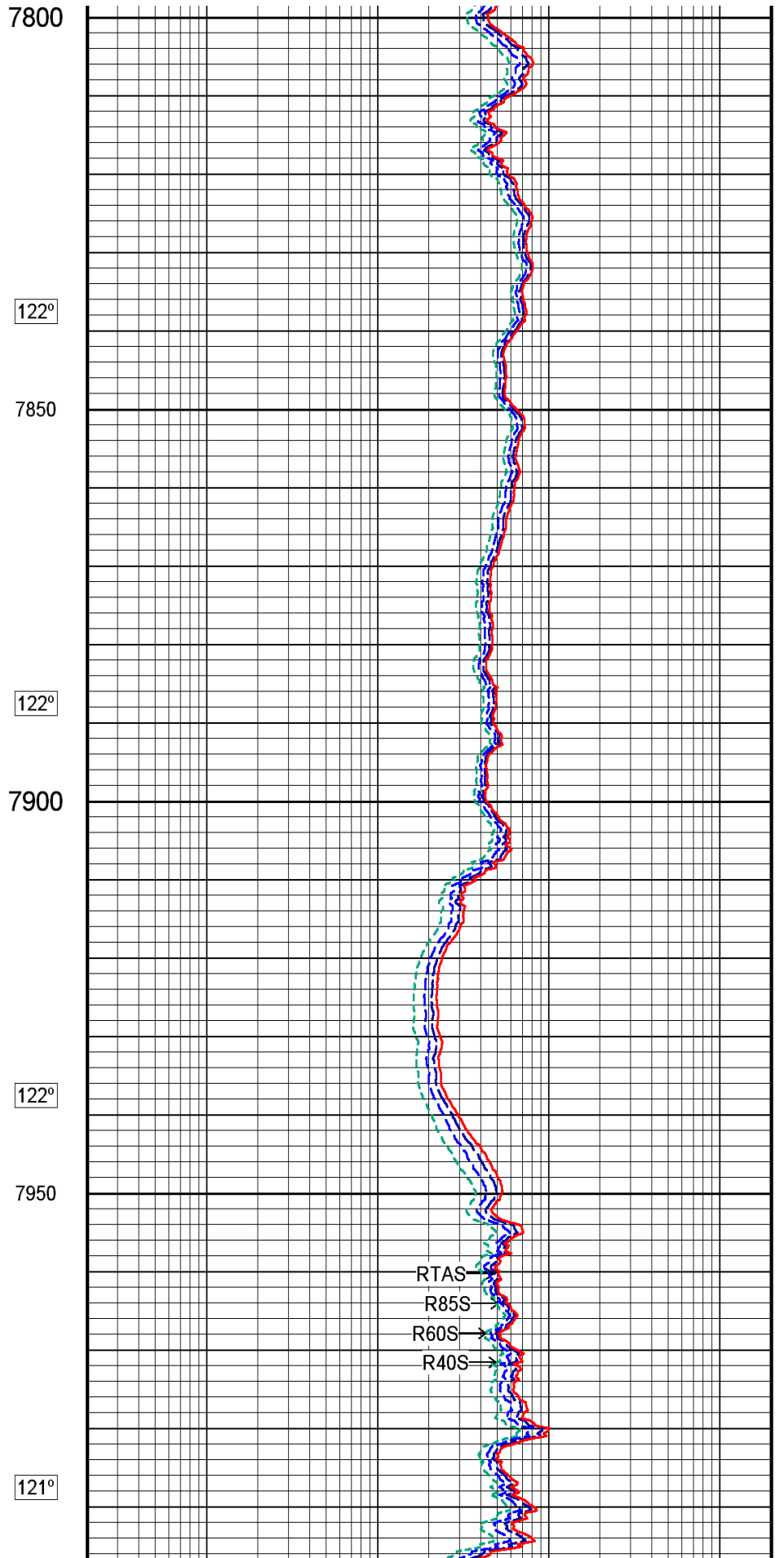
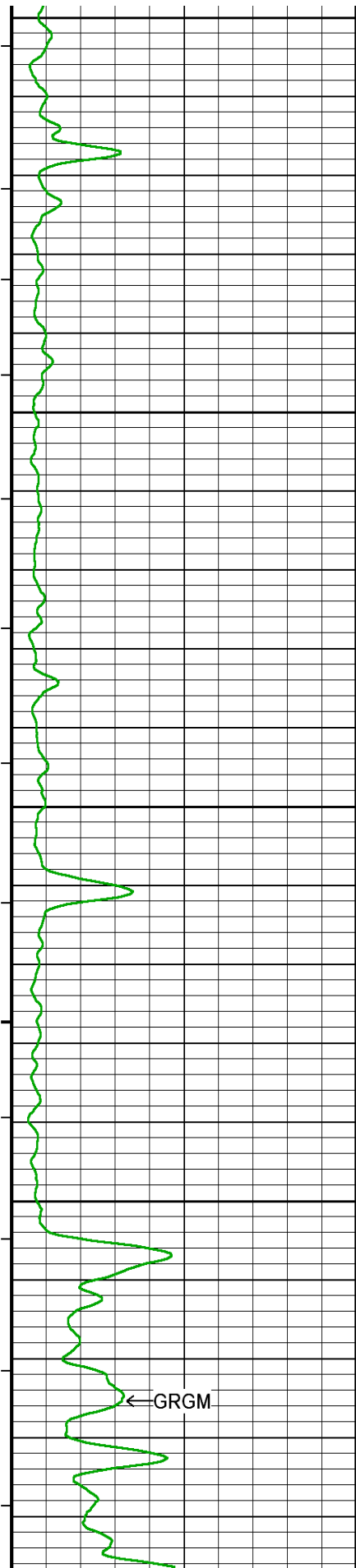
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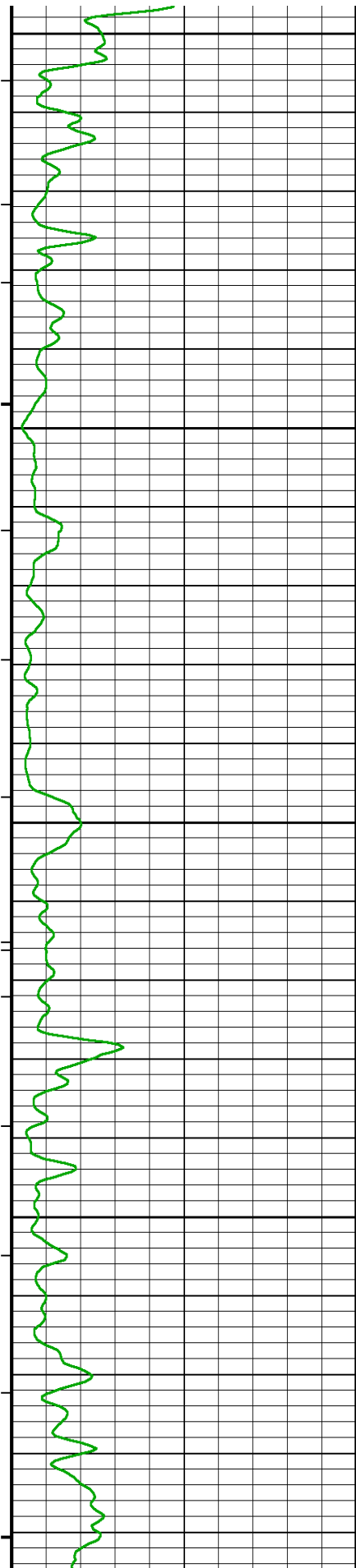
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7600









8000

121°

8050

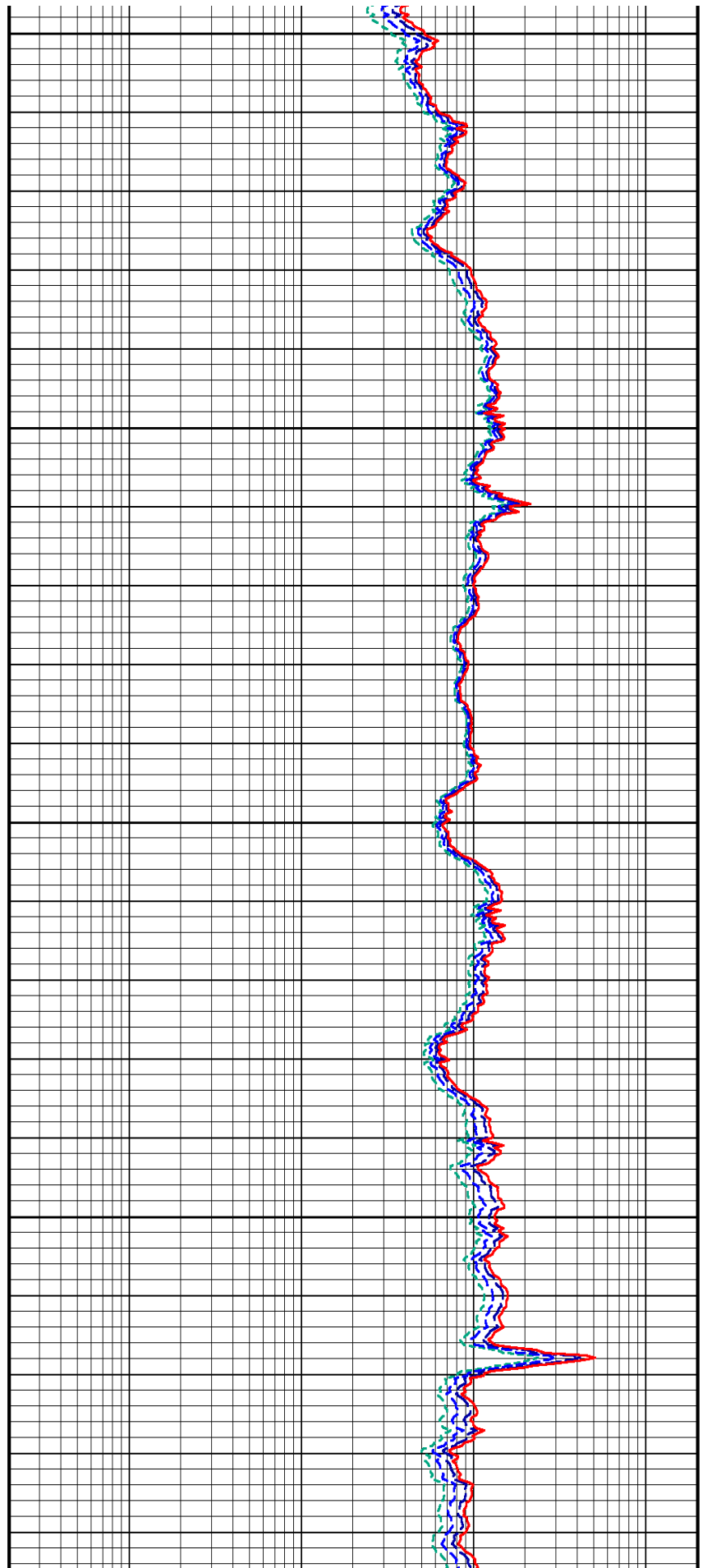
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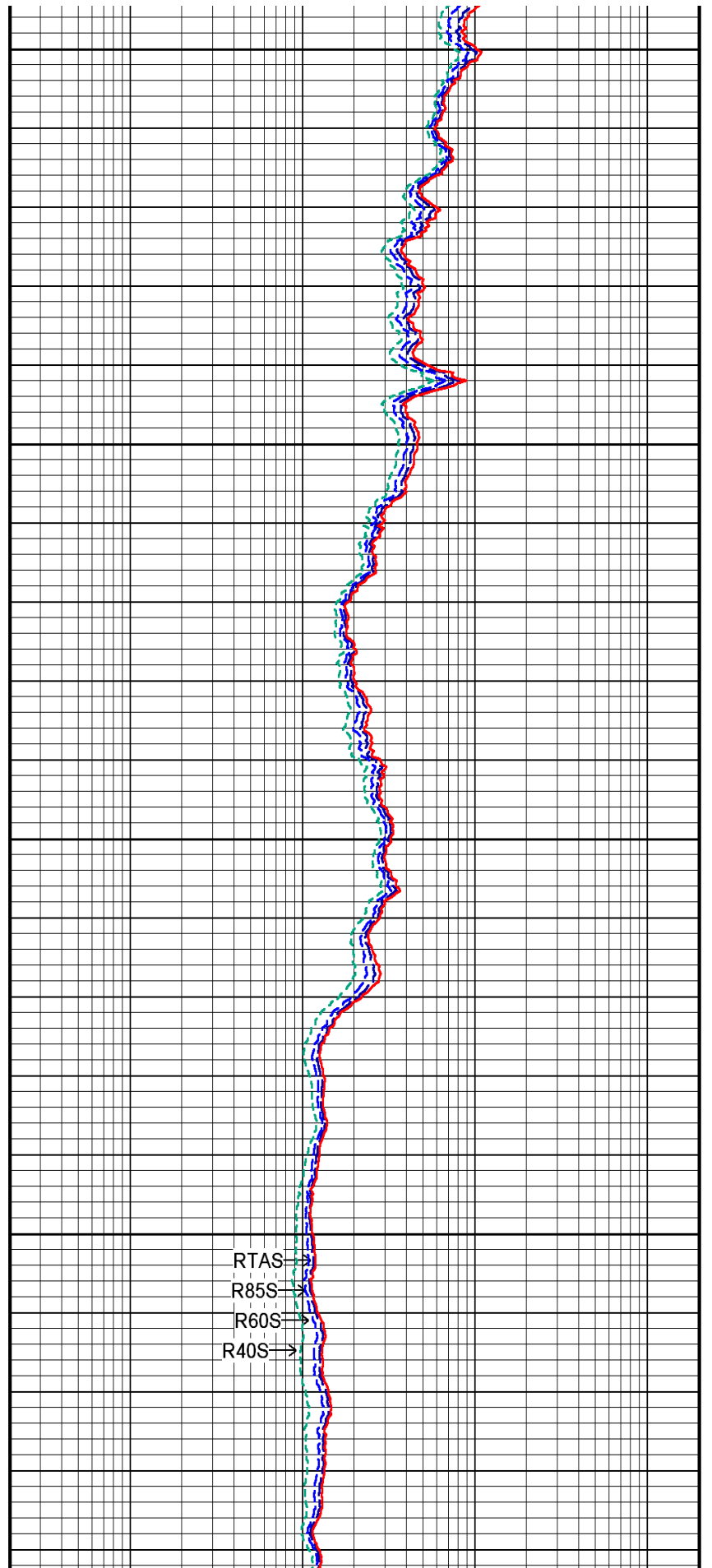
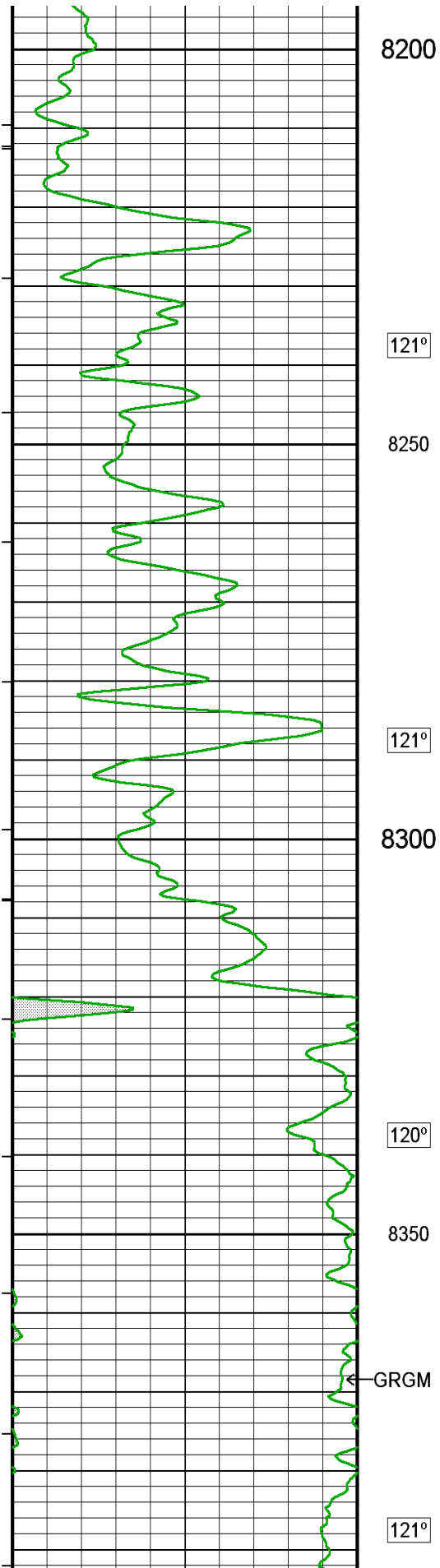
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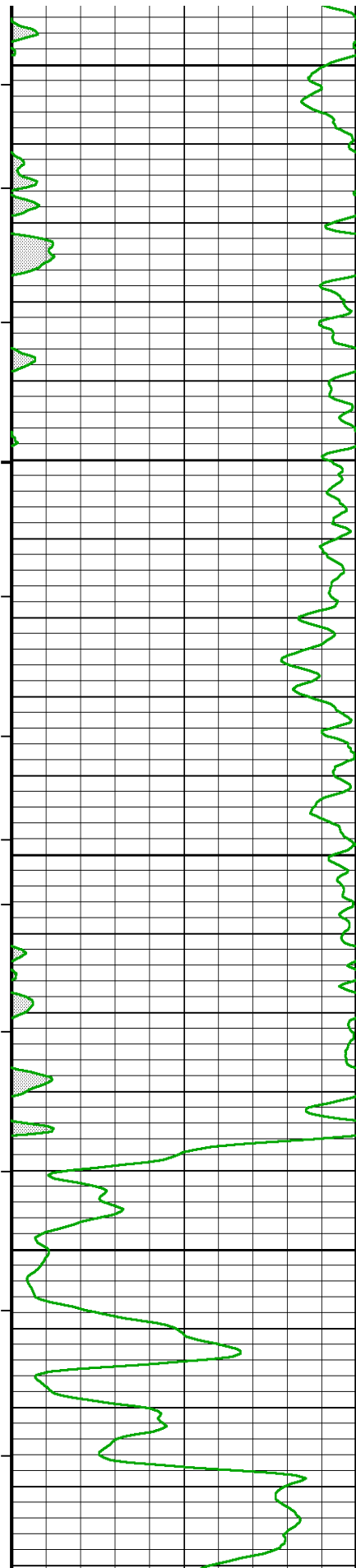
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8150

121°







8400

120°

8450

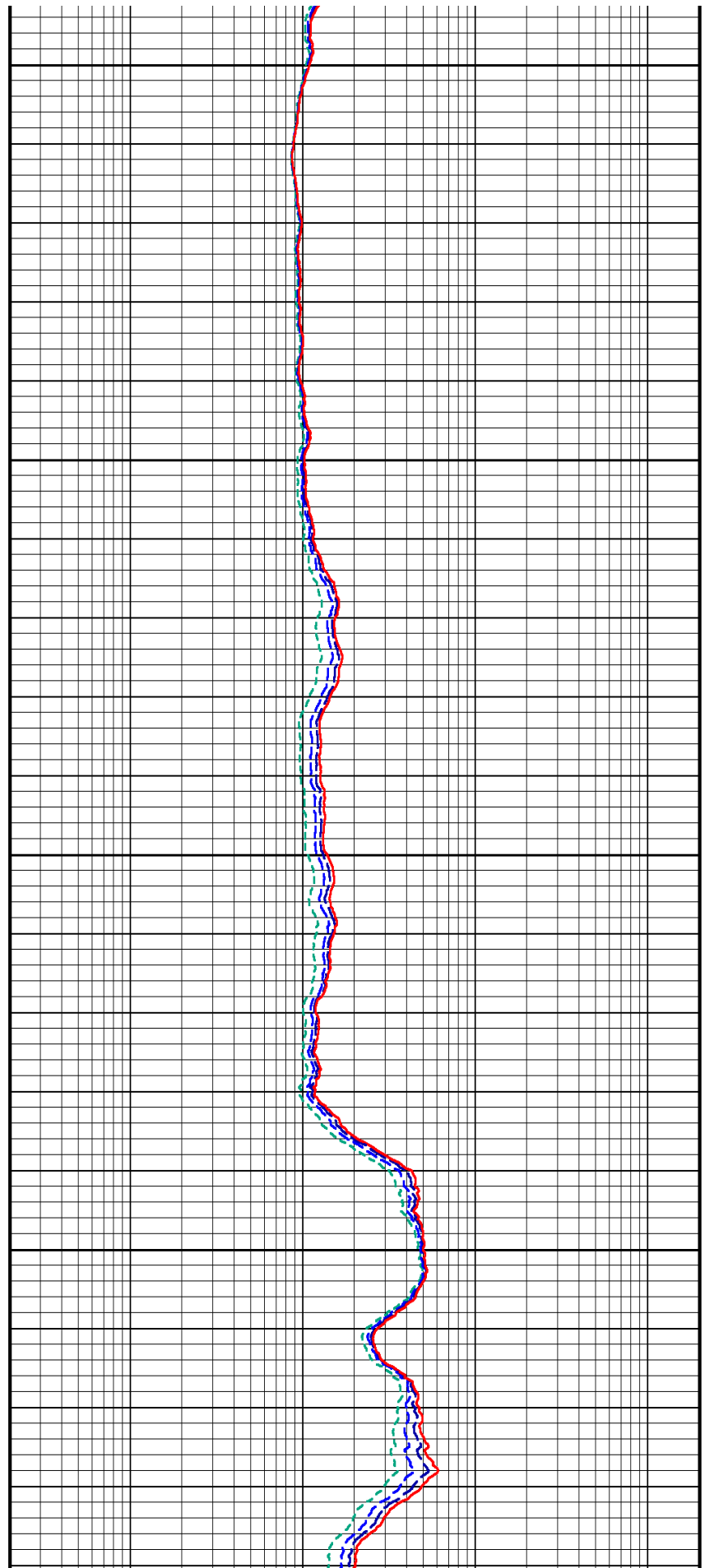
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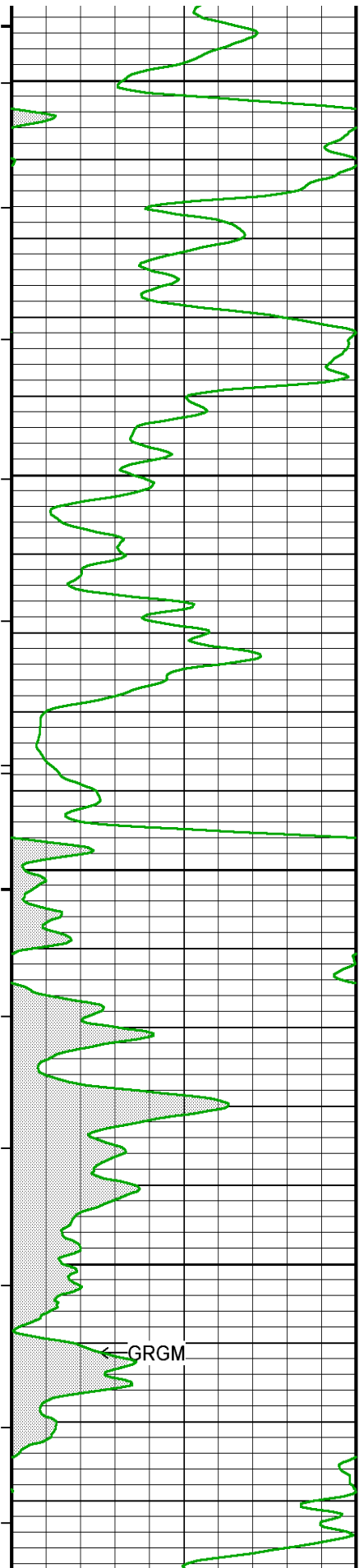
8500

120°

8550

120°





8600

120°

8650

120°

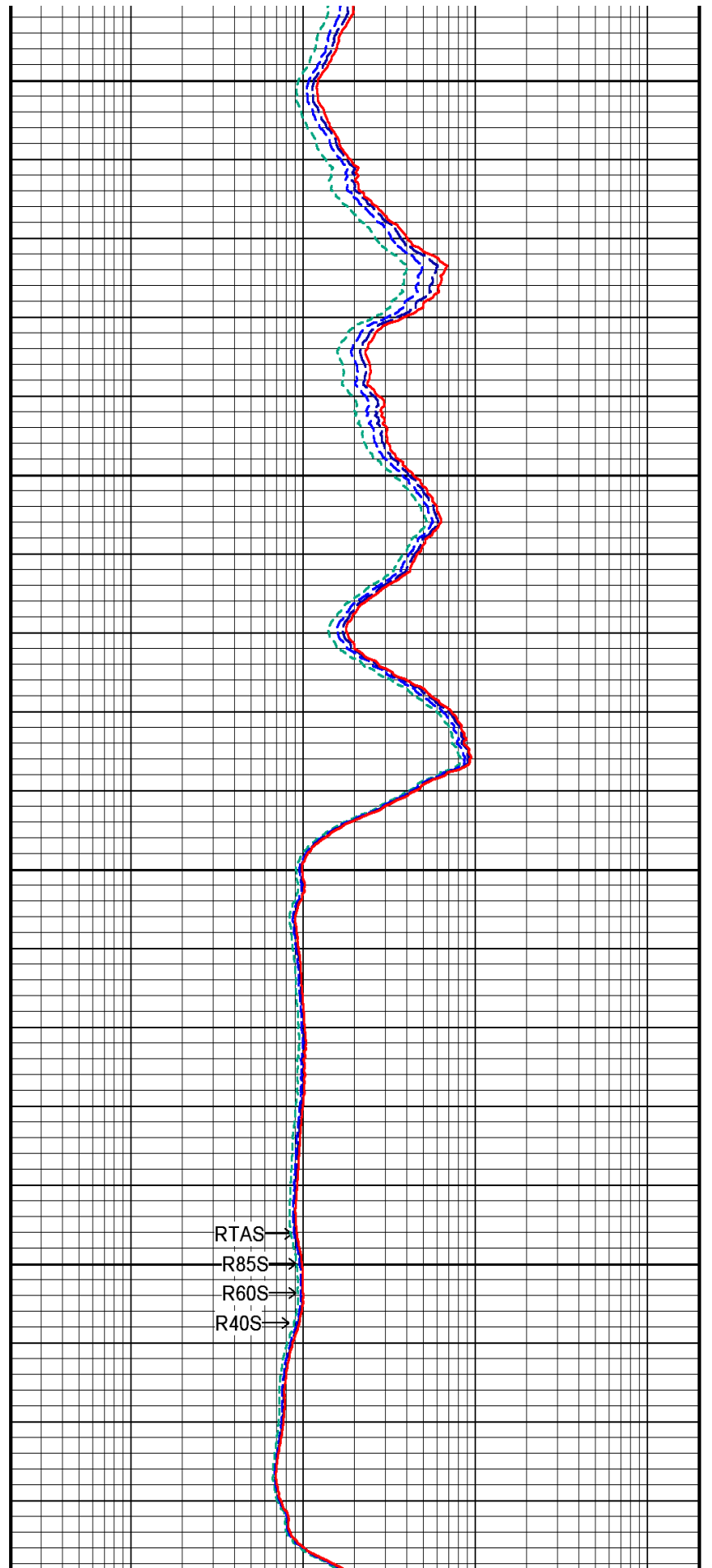
8700

120°

8750

GRGM

119°

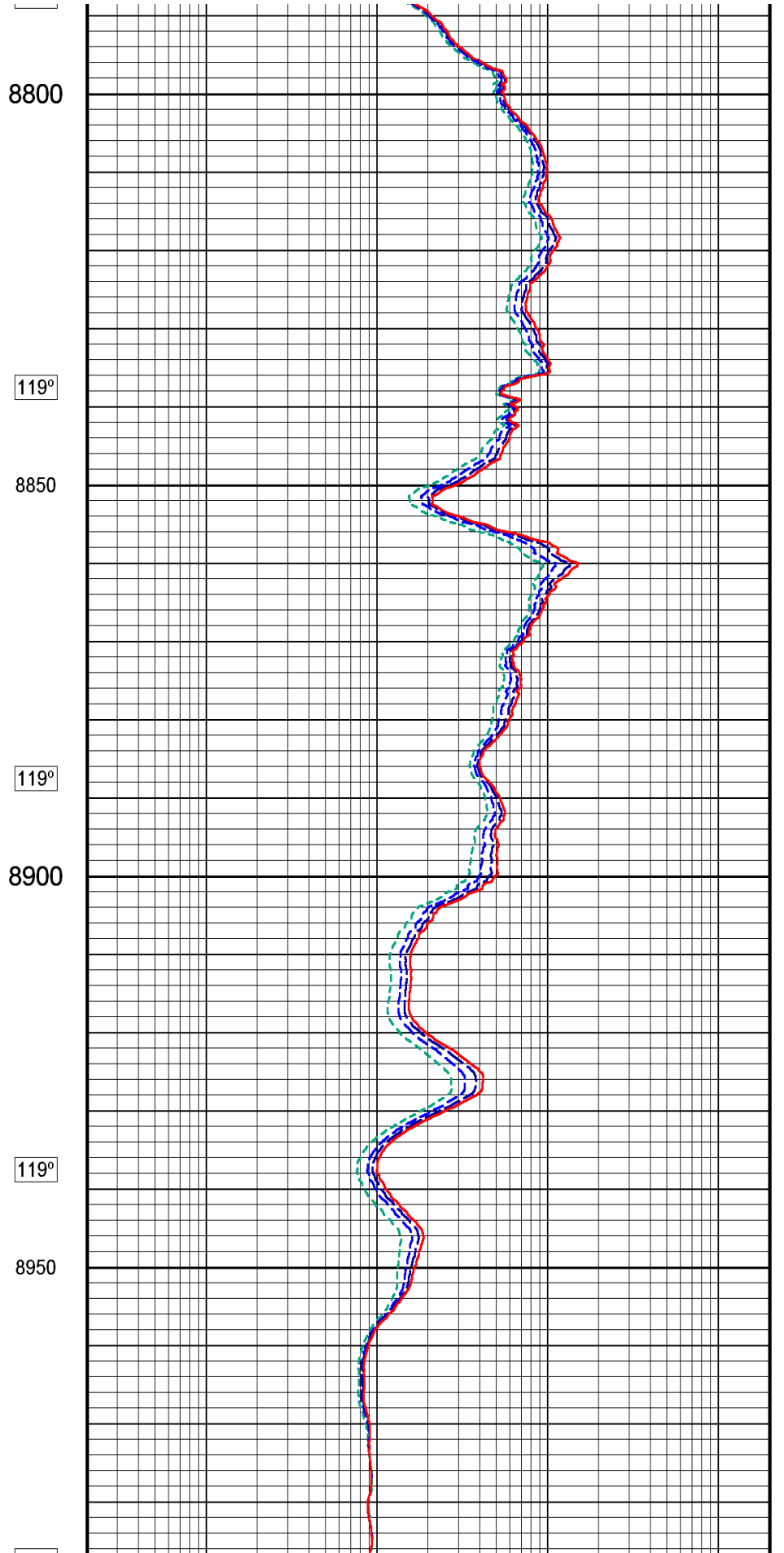
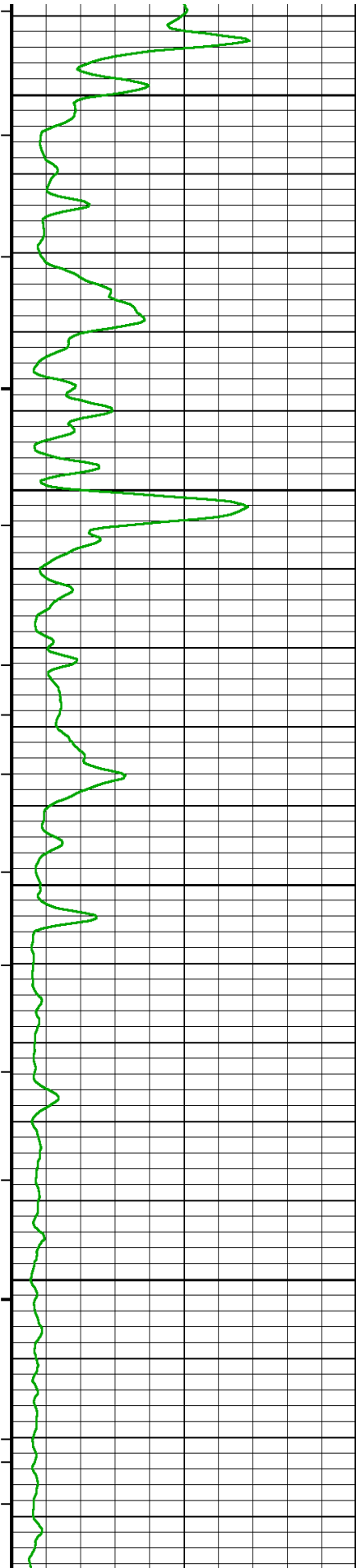


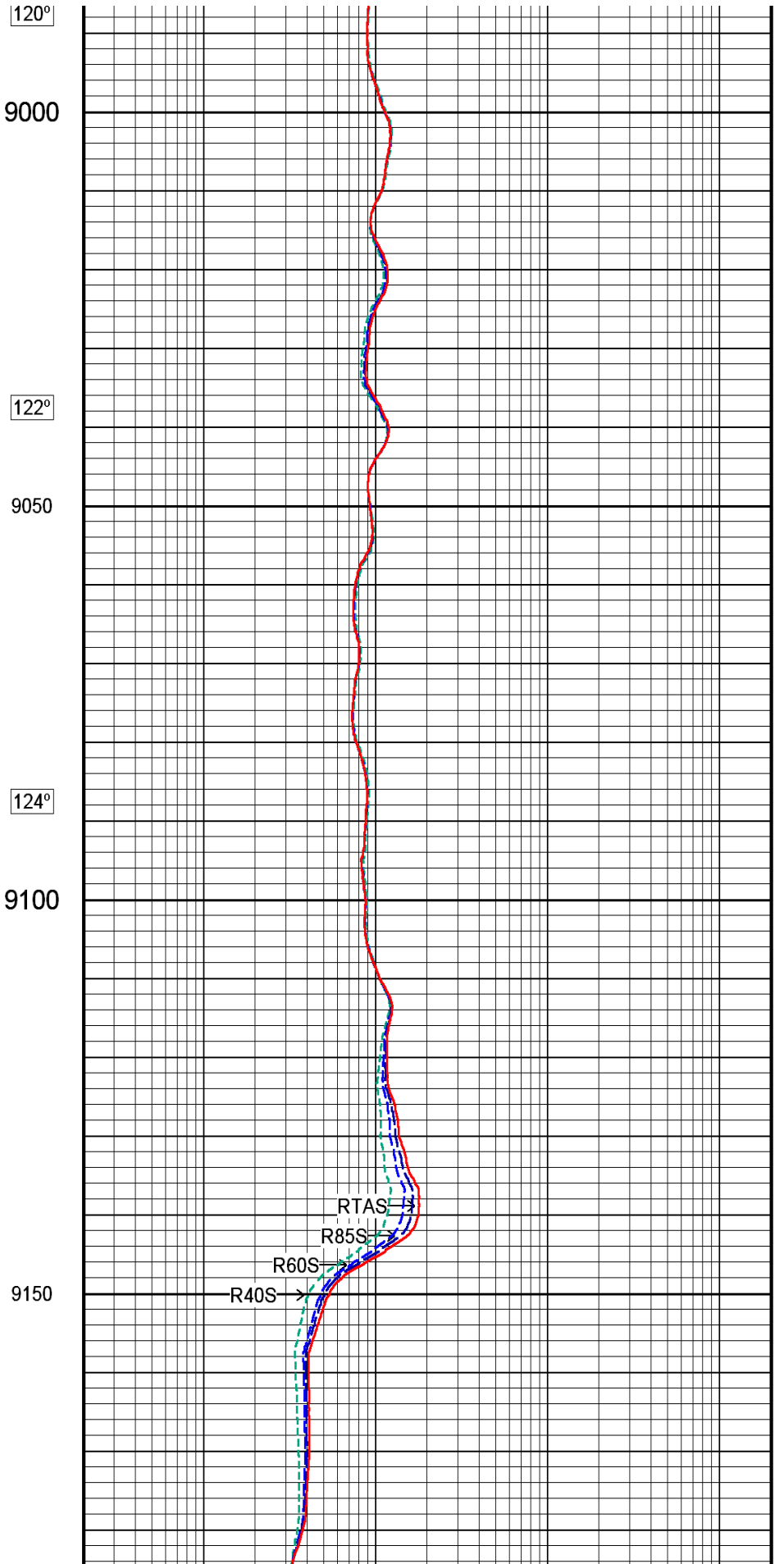
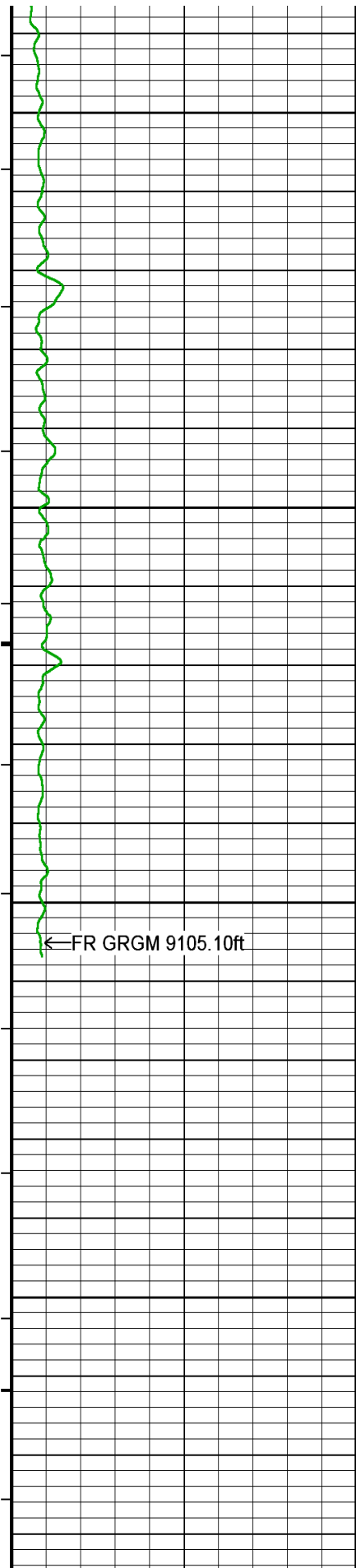
RTAS

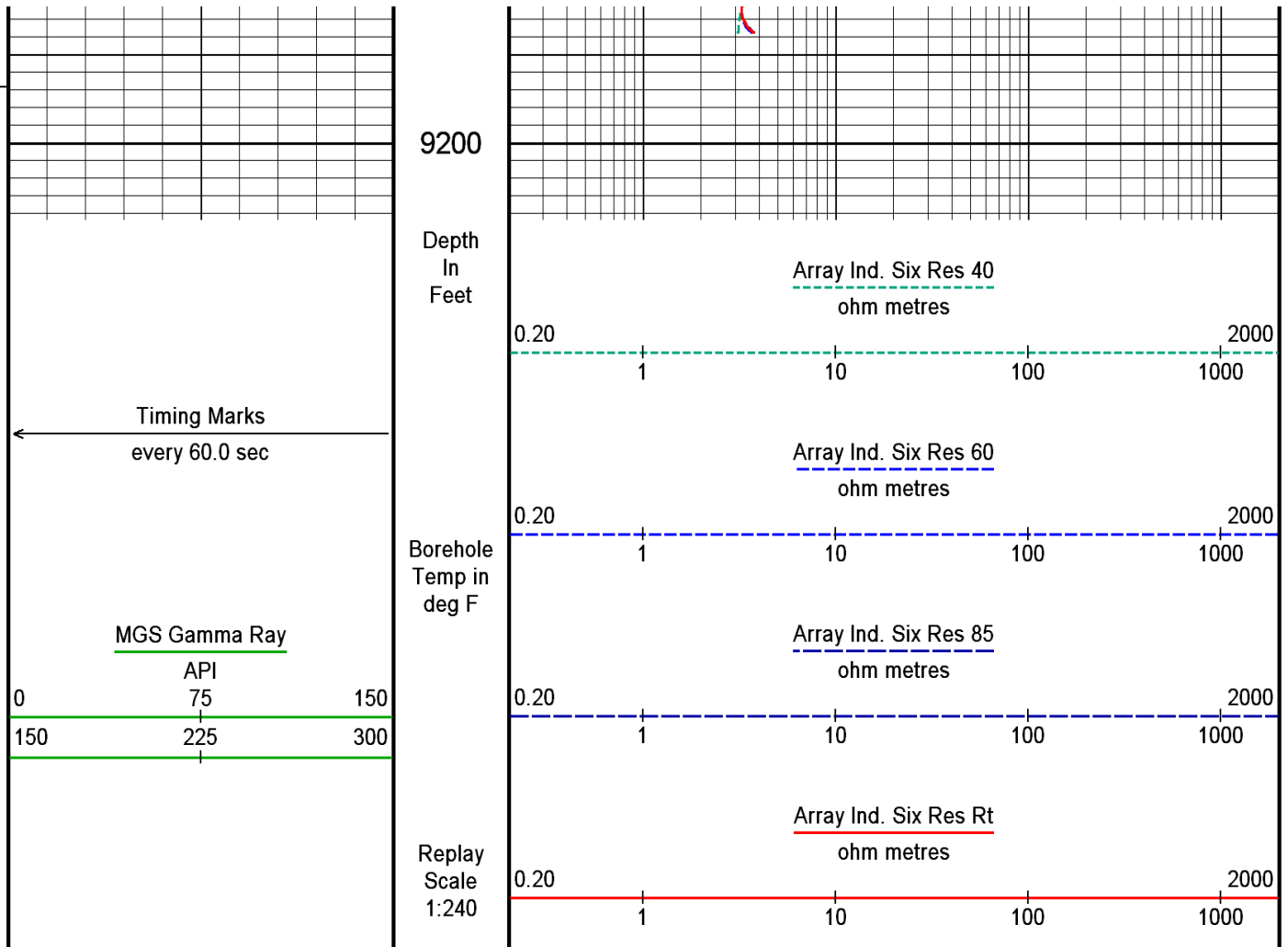
R85S

R60S

R40S







Depth Based Data - Maximum Sampling Increment 10.0cm Plotted on 12-SEP-2012 04:46
 Filename: C:\Minimus\Logs\Sandridge\Jochems 2721 2-2H\Jochems 2721 2-2H DEPTH_RTAP5.dta Recorded on 11-SEP-2012 22:58
 System Versions: Processed with 13.02.6600 Plotted with 13.02.6600

↑ 5 INCH MAIN LOG DSC ↑

BEFORE SURVEY CALIBRATION

C:\Minimus\Logs\Sandridge\Jochems 2721 2-2H\Jochems 2721 2-2H DEPTH_RTAP5.dta

General Constants All 000

Last Edited on 11-SEP-2012,19:48

General Parameters

Mud Resistivity 0.510 ohm-metres
 Mud Resistivity Temperature 79.800 degrees F
 Water Level 0.000 feet
 Density/Neutron Processing Wet Hole

Hole/Annular Volume and Differential Caliper Parameters

HVOL Method XY Caliper
 HVOL Caliper 1 MIE Caliper X
 HVOL Caliper 2 Density Caliper
 Annular Volume Diameter 4.500 inches
 Caliper for Differential Caliper Density Caliper

Rwa Parameters

Porosity used Base Density Porosity
 Resistivity used Array Ind. Six Res Rt
 RWA Constant A 0.610

RWA Constant M		2.150	
Strain Gauge Constants MMS-E.B 159			Last Edited on
Atmospheric Pressure	14.70	psi	
Serial Number	0		
Calibration Date	000000000000		
Base Check Date			
Dead Weight Serial Number	0		
Dead Weight Gravitational Correction	1.0		
Temperature	75.0	150.0	250.0
			350.0
			degrees F
Pressure psia	Inc.	Dec.	Dec.
0.0	0.000	0.000	0.000
2000.0	0.000	0.000	0.000
4000.0	0.000	0.000	0.000
6000.0	0.000	0.000	0.000
8000.0	0.000	0.000	0.000
10000.0	0.000	0.000	0.000
Gamma Calibration MGS-C.J 141			Field Calibration on 10-SEP-2012 16:49
	Measured	Calibrated (API)	
Background	197	138	
Calibrator (Gross)	955	672	
Calibrator (Net)	758	534	
Gamma Constants MGS-C.J 141			Last Edited on 14-AUG-2012,09:59
Gamma Calibrator Number	GRCC225		
Mud Density	1.00	gm/cc	
Caliper Source for Processing	Density Caliper		
Tool Position	Eccentred		
Concentration of KCl	0.00	kppm	
High Resolution Temperature Calibration MGS-C.J 141			Field Calibration on 13-AUG-2012,14:40
	Measured	Calibrated(Deg F)	
Lower	0.00	0.00	
Upper	0.00	0.00	
High Resolution Temperature Constants MGS-C.J 141			Last Edited on
Pre-filter Length	11		
Neutron Calibration MDN-B.A 275			Base Calibration on 20-AUG-2012 17:03 Field Check on 10-SEP-2012 16:38
Base Calibration			
	Measured		Calibrated (cps)
	Near	Far	Near
	3023	94	3714
Ratio	32.292		33.764
Field Calibrator at Base			Calibrated (cps)
			0
Ratio			0.000
Field Check			Calibrated (cps)
			2247
Ratio			0.685
Neutron Constants MDN-B.A 275			Last Edited on 11-SEP-2012,19:48
Neutron Source Id	P31131B		
Neutron Jig Number	NJ6630		
Epithermal Neutron	No		
Caliper Source for Processing	Density Caliper		

Caliper Source for Processing	Density Caliper		
Stand-off	0.00	inches	
Mud Density	1.00	gm/cc	
Limestone Sigma	7.10	cu	
Sandstone Sigma	7.00	cu	
Dolomite Sigma	4.70	cu	
Formation Pressure Source	None		
Formation Pressure	N/A	kpsi	
Temperature Source	None		
Temperature	N/A	degrees F	
Mud Salinity	0.00	kppm	
Salinity Correction	Not Applied		
Formation Fluid Salinity Source	None		
Formation Fluid Salinity	N/A	kppm	
Barite Mud Correction	Not Applied		

Caliper Calibration MIE-A.A 174 Base Calibration on 10-SEP-2012 17:10
Field Calibration on 10-SEP-2012 17:12

Base Calibration

Reading No	Pads 1-5 Meas.	Pads 3-7 Meas.	Calibrator Size (in)
1	26405	26188	5.97
2	36676	36556	7.96
3	46374	46367	9.86
4	58095	58175	11.92
5	0	0	0.00

Reading No	Pad 2 Meas.	Pad 4 Meas.	Pad 6 Meas.	Pad 8 Meas.	Calibrator Size (in)
1	26526	25466	24821	25102	5.97
2	35917	33924	32930	33990	7.96
3	43834	42494	40854	41863	9.86
4	53743	52252	49925	51323	11.92
5	0	0	0	0	0.00

Field Calibration

	Measured Pads 1-5 Caliper(in)	Measured Pads 3-7 Caliper(in)	Actual Caliper(in)		
	6.03	6.01	5.97		
	Measured Pad 2 Caliper(in)	Measured Pad 4 Caliper(in)	Measured Pad 6 Caliper(in)	Measured Pad 8 Caliper(in)	Actual Caliper(in)
	3.04	2.99	2.97	3.01	5.97

Caliper Constants MIE-A.A 174 Last Edited on 10-SEP-2012,14:48

Caliper Difference for BRKT 0.120 inches

Accelerometer Parameters MIE-A.A 174

Date Of Last Accelerometer Calibration 10-SEP-2012,14:45

	X Accelerometer	Y Accelerometer	Z Accelerometer
Slope	-1.109668	-1.105512	-1.098022
Offset	0.006256	-0.000537	0.012788

Accelerometer Constants MIE-A.A 174 Last Edited on 10-SEP-2012,14:46

Accelerometer Calibrator Number 000

Accelerometer Temperature Characterisation

X Accelerometer

Serial Number	644			
Calibration Date	19-Aug-2008			
	B0	B1	B2	B3
Bias(g)	0.00000e+000	8.97681e-006	-1.88894e-008	1.27694e-010
	SF0	SF1	SF2	SF3
Scale Factor(mA/g)	3.00000e+000	2.72633e-004	2.24457e-007	1.11567e-009

Y Accelerometer				
Serial Number	679			
Calibration Date	24-Aug-2008			
	B0	B1	B2	B3
Bias(g)	0.00000e+000	2.76667e-005	-1.48113e-008	9.65949e-011
	SF0	SF1	SF2	SF3
Scale Factor(mA/g)	3.00000e+000	2.60693e-004	5.14448e-007	-1.83309e-010
Z Accelerometer				
Serial Number	687			
Calibration Date	30-Aug-2008			
	B0	B1	B2	B3
Bias(g)	0.00000e+000	-2.68884e-005	4.88649e-009	-1.07028e-011
	SF0	SF1	SF2	SF3
Scale Factor(mA/g)	3.00000e+000	2.65798e-004	2.86695e-007	9.16986e-010

Magnetometer Parameters MIE-A.A 174			
Date Of Last Magnetometer Calibration	10-SEP-2012,14:47		
	X Magnetometer	Y Magnetometer	Z Magnetometer
Slope	-1.000000	-1.002889	-1.001936
Offset	0.011223	-0.016605	0.011526

Magnetometer Constants MIE-A.A 174			Last Edited on
Magnetometer Calibrator Number	000		

Navigation Constants MIE-A.A 174			Last Edited on
Magnetic Declination	0.00	degrees	East

Imager Pad Check MIE-A.A 174				Field Check on
Pad 1	Pad Not Tested	Pad 5	Pad Not Tested	
Pad 2	Pad Not Tested	Pad 6	Pad Not Tested	
Pad 3	Pad Not Tested	Pad 7	Pad Not Tested	
Pad 4	Pad Not Tested	Pad 8	Pad Not Tested	

Compact Micro Imager Constants MIE-A.A 174			Last Edited on 10-SEP-2012,14:48
Sonde Configuration	Imager Mode	degrees	
Arm-Pad Kit	Normal Pads (12.25 in)		
Centre Pad 1 Rotational Offset	0.00		
Image/Borehole Ovality Reference	Azimuth of Pad 1	degrees	
Non Active Buttons	Omit	feet	
Search Angle	0.00	feet	
Correlation Interval	3.28	mAmp	
Correlation Step	1.64	mAmp	
Current Offset	0.0000		
Squasher Start	N/A		
Image Processing	Enabled		

Induction Calibration MAI-B.J 376					Base Calibration on 22-FEB-2012 08:07
					Field Check on 10-SEP-2012 16:18
Base Calibration					
Test Loop Calibration	Measured		Calibrated (mmho/m)		
Channel	Low	High	Low	High	
1	16.4	461.5	9.3	966.2	
2	5.9	377.0	7.6	821.4	
3	3.1	255.4	5.2	566.0	
4	1.7	130.3	2.6	279.2	
Array Temperature	73.8		Deg F		
Channel	Base Check (mmho/m)		Field Check (mmho/m)		
	Low	High	Low	High	

1	0.0	0.0	16.9	3951.1
2	0.0	0.0	31.6	3586.4
3	0.0	0.0	30.2	3104.7
4	0.0	0.0	20.6	2125.5
Deep	0.0	0.0	19.2	2053.7
Medium	0.0	0.0	43.3	4064.2
Shallow	0.0	0.0	46.3	5263.5
Array Temperature		0.0	106.5	Deg F

Induction Constants MAI-B.J 376

Last Edited on 11-SEP-2012,19:49

Induction Model		RtAP-WBM	
Caliper for Borehole Corr.		MIE Caliper X	
Hole Size for Borehole Correction		N/A	inches
Tool Centred		No	
Stand-off Type		Fins	
Stand-off		0.50	inches
Number of Fins on Stand-off		6.0000	
Stand-off Fin Angle		60.00	degrees
Stand-off Fin Width		0.5000	inches
Borehole Corr. Rm Source		Temperature Corr	
Temp. for Rm Corr.		MGS External Temperature	
Squasher Start		0.0020	mhos/metre
Squasher Offset		N/A	mhos/metre

Borehole Normalisation

DRM1	0.0000	DRC1	0.0000
DRM2	0.0000	DRC2	0.0000
MRM1	0.0000	MRC1	0.0000
MRM2	0.0000	MRC2	0.0000
SRM1	0.0000	SRC1	0.0000
SRM2	0.0000	SRC2	0.0000

Calibration Site Corrections

Channel 1	0.00	mmhos/metre
Channel 2	0.00	mmhos/metre
Channel 3	0.00	mmhos/metre
Channel 4	0.00	mmhos/metre

Apparent Porosity and Water Saturation Constants

Archie Constant (A)	1.00	
Cementation Exponent (M)	2.00	
Saturation Exponent (N)	2.00	
Saturation of Water for Apor	100.00	percent
Resistivity of Water for Apor and Sw	0.05	ohm-m
Resistivity of Mud Filtrate for Sw	0.00	ohm-m
Source for Rt	0.00	
Source for Rxo	0.00	

High Resolution Temperature Calibration MAI-B.J 376

Field Calibration on 05-AUG-2012,15:12

	Measured	Calibrated(Deg F)
Lower	0.00	0.00
Upper	50.00	50.00

High Resolution Temperature Constants MAI-B.J 376

Last Edited on

Pre-filter Length	11
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Photo Density Calibration MPD-C.J 376

Base Calibration on 05-SEP-2012 12:14

Field Check on 10-SEP-2012 16:24

Density Calibration				
Base Calibration		Measured	Calibrated (sdu)	
	Near	Far	Near	Far

Reference 1	52759	17751	53167	19331
Reference 2	24759	2664	25116	2544

Field Check at Base	1208.1	1371.8
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Field Check	1211.3	1372.0
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PE Calibration

Base Calibration	WS	Measured WH	Ratio	Calibrated Ratio
Background	218	1078		
Reference 1	18227	52571	0.350	0.320
Reference 2	7014	24616	0.289	0.273

Field Check at Base	218.4	1077.8
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Field Check	218.5	1080.6
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Density Constants MPD-C.J 376

Last Edited on 26-JUL-2012,00:23

Density Source Id	P21136B	
Nylon Calibrator Number	535	
Aluminium Calibrator Number	535	
Density Shoe Profile	4 inch	
Caliper Source for Processing	Density Caliper	
PE Correction to Density	Not Applied	
Mud Density	1.10	gm/cc
Mud Density Z/A Multiplier	1.11	
Mud Filtrate Density	1.00	gm/cc
Dry Hole Mud Filtrate Density	1.00	gm/cc
DNCT	0.00	gm/cc
CRCT	0.00	gm/cc
Density Z/A Correction	Hybrid	
Matrix Density (gm/cc)	Depth (ft)	
2.68	0.00	
0.00	0.00	
0.00	0.00	
0.00	0.00	
0.00	0.00	
0.00	0.00	
0.00	0.00	
0.00	0.00	

Caliper Calibration MPD-C.J 376

Base Calibration on 06-SEP-2012 17:26
Field Calibration on 10-SEP-2012 16:26

Base Calibration	Reading No	Measured	Calibrator Size (in)
	1	15824	4.01
	2	25152	5.97
	3	35104	7.96
	4	44768	9.86
	5	55856	11.92
	6	N/A	N/A

Field Calibration	Measured Caliper (in)	Actual Caliper (in)
	7.94	7.96

DOWNHOLE EQUIPMENT

C:\Minimus\Logs\Sandridge\Jochems 2721 2-2H\Jochems 2721 2-2H DEPTH_RTAP5.dta

Shuttle Running Tool 3.5")
SRT-A.A 59 LG: 5.42 ft WT: 37.5 lb OD: 2.52 in

MIS-E.B Compact Inline Standoff sub
MIS-E.B 688 LG: 2.14 ft WT: 15.4 lb OD: 2.24 in

200v Std Compact Linker
MLK-A 4 LG: 8.53 ft WT: 30.9 lb OD: 2.24 in

400V ext Compact Linker
MLK-A 2 LG: 14.23 ft WT: 30.9 lb OD: 2.24 in

SKJ-E.B Compact Knuckle Joint
SKJ-E.B 610 LG: 2.17 ft WT: 24.3 lb OD: 2.24 in

MBS-F.A 200v Compact Battery Sub
MBS-F.A 120 LG: 10.22 ft WT: 81.6 lb OD: 2.24 in

Compact Memory Sub E.B
MMS-E.B 159 LG: 5.20 ft WT: 37.5 lb OD: 2.24 in

Compact Tool Isolator sub.
MTI-B.A 64 LG: 1.54 ft WT: 13.2 lb OD: 2.24 in

Compact Short Gamma
MGS-C.J 141 LG: 3.41 ft WT: 24.3 lb OD: 2.24 in

Compact Collar Locator
MCL-B.J 53 LG: 3.17 ft WT: 26.5 lb OD: 2.24 in

SKJ-E.B Compact Knuckle Joint
SKJ-E.B 612 LG: 2.17 ft WT: 24.3 lb OD: 2.24 in

SHA-J.A Compact Swivel Head Adaptor
SHA-J.A 397 LG: 2.30 ft WT: 22.0 lb OD: 2.24 in

MIS-D.A Compact Inline Bowspring sub
MIS-D.A 700 LG: 5.70 ft WT: 33.1 lb OD: 2.24 in

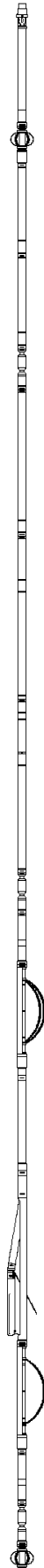
Compact Neutron
MDN-B.A 275 LG: 5.04 ft WT: 50.7 lb OD: 2.24 in

Compact Density/Caliper
MPD-C.J 376 LG: 9.59 ft WT: 90.4 lb OD: 2.24 in

MIS-D.B Compact Inline Bowspring sub
MIS-D.B 695 LG: 5.70 ft WT: 33.1 lb OD: 2.24 in

SHA-J.A Compact Swivel Head Adaptor
SHA-J.A 316 LG: 2.30 ft WT: 22.0 lb OD: 2.24 in

SKJ-E.B Compact Knuckle Joint
SKJ-E.B 611 LG: 2.17 ft WT: 24.3 lb OD: 2.24 in



MIS-E.A Compact Inline Standoff sub
 MIS-E.A 115 LG: 2.14 ft WT: 15.4 lb OD: 2.24 in

SKJ-E.B Compact Knuckle Joint
 SKJ-E.B 597 LG: 2.17 ft WT: 24.3 lb OD: 2.24 in

MIS-D.A Compact Inline Bowspring sub
 MIS-D.A 709 LG: 5.70 ft WT: 33.1 lb OD: 2.24 in

Compact MMI Memory Section
 MIM-A.A 174 LG: 4.65 ft WT: 26.5 lb OD: 2.24 in

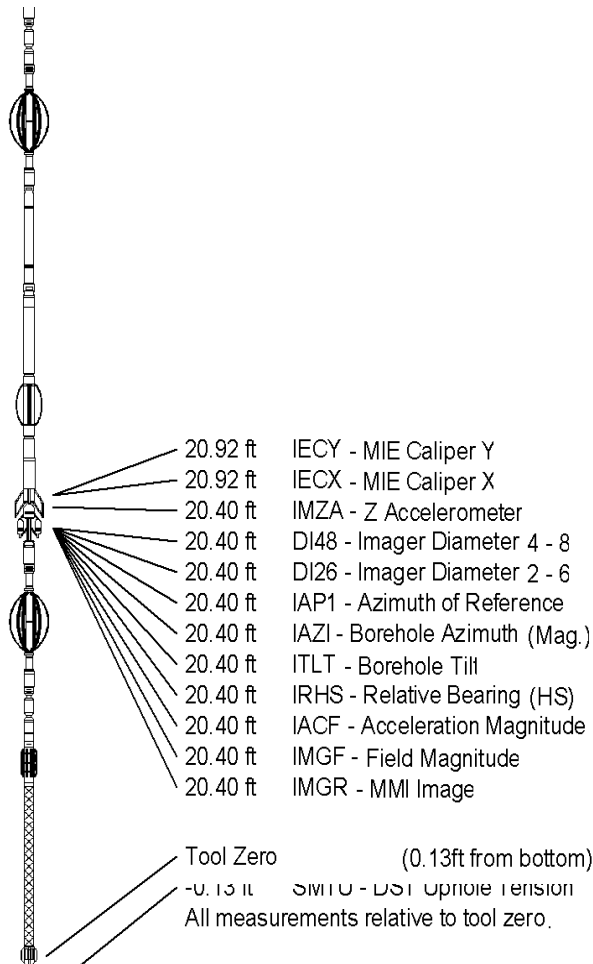
Compact MMI Electrode Section
 MIE-A.A 174 LG: 13.96 ft WT: 99.2 lb OD: 4.09 in

MIS-D.A Compact Inline Bowspring sub
 MIS-D.A 441 LG: 5.70 ft WT: 33.1 lb OD: 2.24 in

SKJ-E.B Compact Knuckle Joint
 SKJ-E.B 537 LG: 2.17 ft WT: 24.3 lb OD: 2.24 in

Compact Induction
 MAI-B.J 376 LG: 10.81 ft WT: 48.5 lb OD: 2.24 in

Total Length: 138.26 ft Weight: 925.9 lb



COMPANY SANDRIDGE ENERGY
 WELL JOCHEMS 2721 2-2H
 FIELD WILDCAT
 PROVINCE/COUNTY FORD
 COUNTRY/STATE U.S.A. / KANSAS

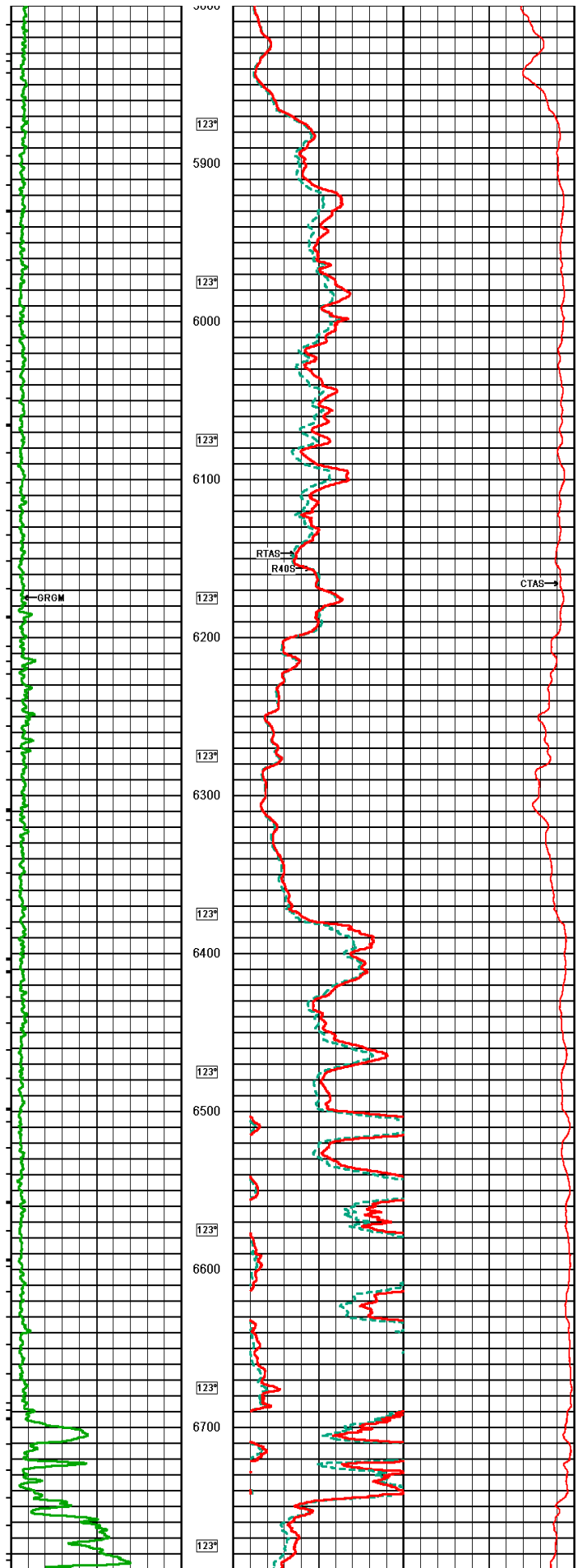
Elevation Kelly Bushing	2302.50	feet	First Reading	9188.00	feet
Elevation Drill Floor	2301.50	feet	Depth Driller	9217.00	feet
Elevation Ground Level	2284.00	feet	Depth Logger	9217.00	feet

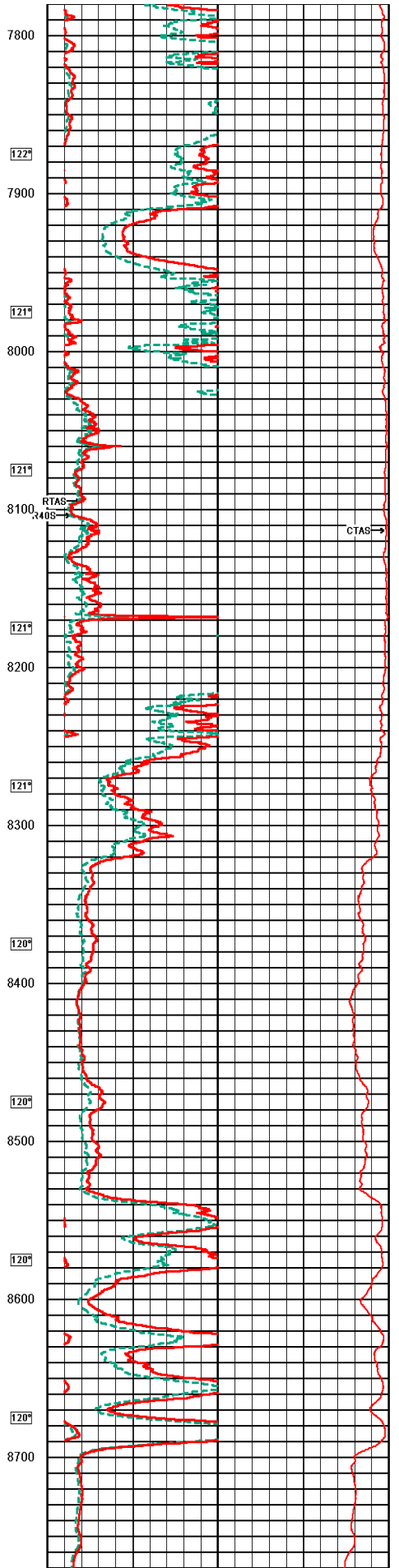
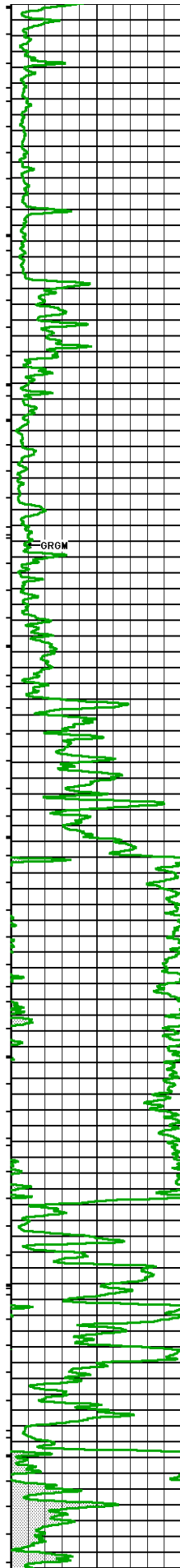


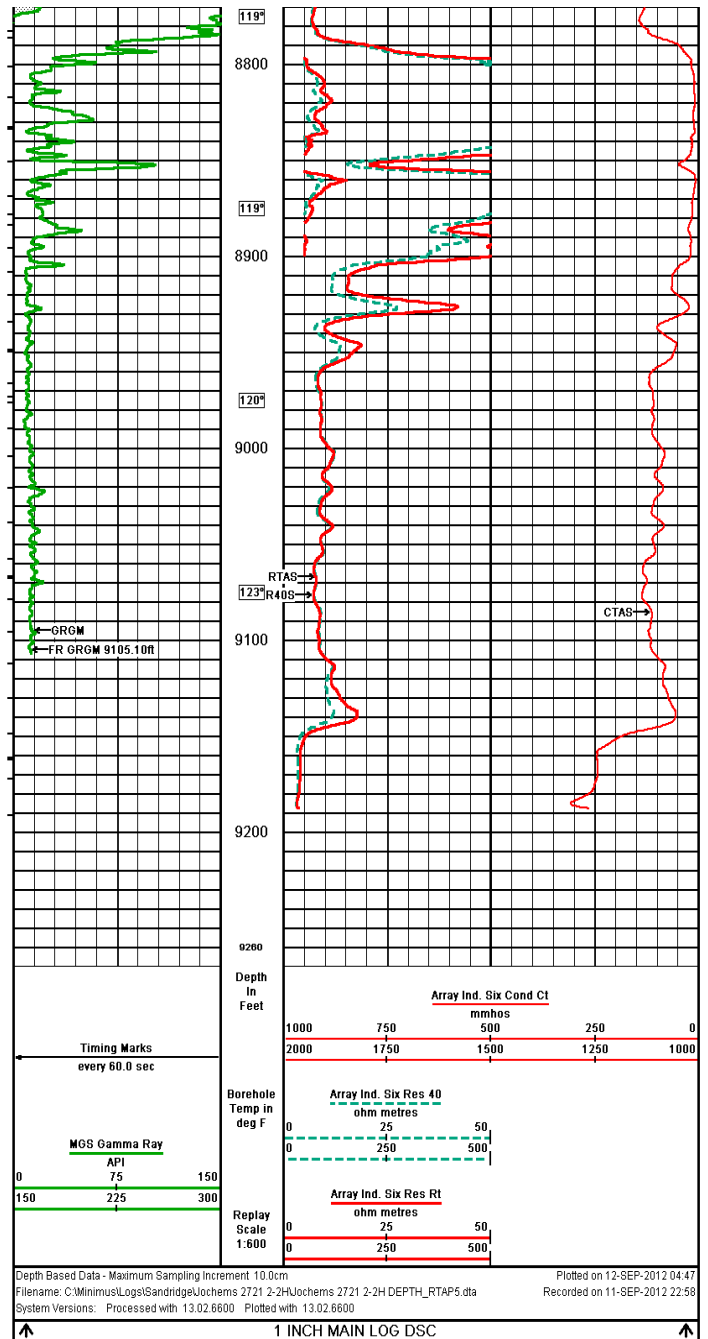
Weatherford


CML MESSENGER SHUTTLE
 ARRAY INDUCTION LOG

COMPANY	SANDRIDGE ENERGY
WELL	JOCHEMS 27
FIELD	WILDCAT
PROVINCE/COUNTY	FORD
COUNTRY/STATE	U.S.A. / KANSAS
LOCATION	SHL: 200' FSI BHL: 330' FSI
SEC	21W
TWP	21N
RANGE	MPDI
CMI	
Log Number	15-057-20832
Permanent Datum O.L. Elevation	2284 feet
Log Measured From	K/B
Drilling Measured From	K/B @ 18.5 FEET
Date	11-SEP-2012
Run Number	ONE
Depth Driller	9217.00
Depth Logger	9217.00
First Reading	9188.00
Last Reading	9238.00
Casing Driller	9245.00
Casing Logger	9236.00
Bit Size	6.175
HOLES / TUB TYPE	WBM
HOLES / TUB SIZE	60/3
HOLES / TUB LOSS	8.20
Source	ELIOWLINE
Form @ Measured Temp	0.41 @ 79.8
Form @ Measured Temp	0.61 @ 79.8
Source Form / Form	CALC
Form @ BHT	0.33 @ 25.0
Time Since Circulation	1.5 HOUR
Max Recorded Temp	175.00
Equipment Name	COMPACT
Equipment / Base	18063
Recorded By	KYLE SALLER
Witnessed By	JOHN
SO # / JOB #	3525499







COMPANY	SANDRIDGE ENERGY				
WELL	JOCHEMS 2721 2-2H				
FIELD	WILDCAT				
PROVINCE/COUNTY	FORD				
COUNTRY/STATE	U.S.A. / KANSAS				
Elevation Kelly Bushing	2302.50	feet	First Reading	9199.00	feet
Elevation Drill Floor	2301.50	feet	Depth Driller	9217.00	feet
Elevation Ground Level	2284.00	feet	Depth Logger	9217.00	feet
		CML MESSENGER SHUTTLE ARRAY INDUCTION LOG			