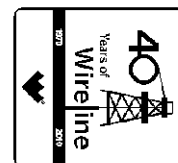




Weatherford

**CML MESSENGER SHUTTLE
ARRAY INDUCTION**

COMPANY SANDRIDGE ENERGY
WELL MARKS 1-24H
FIELD MINNEOLA
PROVINCE/COUNTY FORD
COUNTRY/STATE U.S.A. / OKLAHOMA
LOCATION 250' FNL & 520' FEL



SEC 24 **TWP** 29S **RGE** 25W **Other Services**
MPD/MDN
API Number 15-057-20820 **CMI**
Permit Number

Permanent Datum G.L., Elevation 2618 feet
Log Measured From KB
Drilling Measured From K.B. @ 18.5 FEET

Elevations: feet
KB 2638.50
DF 2637.50
GL 2618.00

Date	17-AUG-2012	
Run Number	ONE	
Depth Driller	9803.00	feet
Depth Logger	9803.00	feet
First Reading	9735.00	feet
Last Reading	5695.00	feet
Casing Driller	5695.00	feet
Casing Logger	5695.00	feet
Bit Size	6.125	inches
Hole Fluid Type	WBM	
Density / Viscosity	9.40 g/cc	43.00 CP
PH / Fluid Loss	9.50	4.50 ml/30Min
Sample Source	FLOWLINE	
Rm @ Measured Temp	1.18 @ 78.0	ohm-m
Rmf @ Measured Temp	0.94 @ 78.0	ohm-m
Rmc @ Measured Temp	1.42 @ 78.0	ohm-m
Source Rmf / Rmc	CALC	CALC
Rm @ BHT	0.74 @ 124.0	ohm-m
Time Since Circulation	1 HOUR	
Max Recorded Temp	124.00	deg F
Equipment Name	COMPACT	
Equipment / Base	18006	OKC
Recorded By	STEVEN TOTTEY	
Witnessed By	J. CLARK	
S.O. # / JOB #	3531686	

BOREHOLE RECORD

Last Edited: 18-AUG-2012 08:57

Bit Size inches	Depth From feet	Depth To feet
6.125	5695.00	9803.00

CASING RECORD

Type	Size inches	Depth From feet	Shoe Depth feet	Weight pounds/ft
INTER	7.000	0.00	5695.00	26.00

REMARKS

LOGGED WITH WLS VER 13.02.6600 SOFTWARE

WELL LOGGED USING MESSENGER METHOD OF DEPLOYMENT, AND MEMORY LOGGING 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

DRILL PIPE DEPTH DURING DEPLOYMENT - 9635
LOGGING TOOL DEPTH AFTER DEPLOYMENT: 9738

4.5 INCH CASING USED TO CALCULATE AHV

2600 CHLORIDES
BOREHOLE VOLUME TO INTERMEDIATE CASING = 820 CUFT

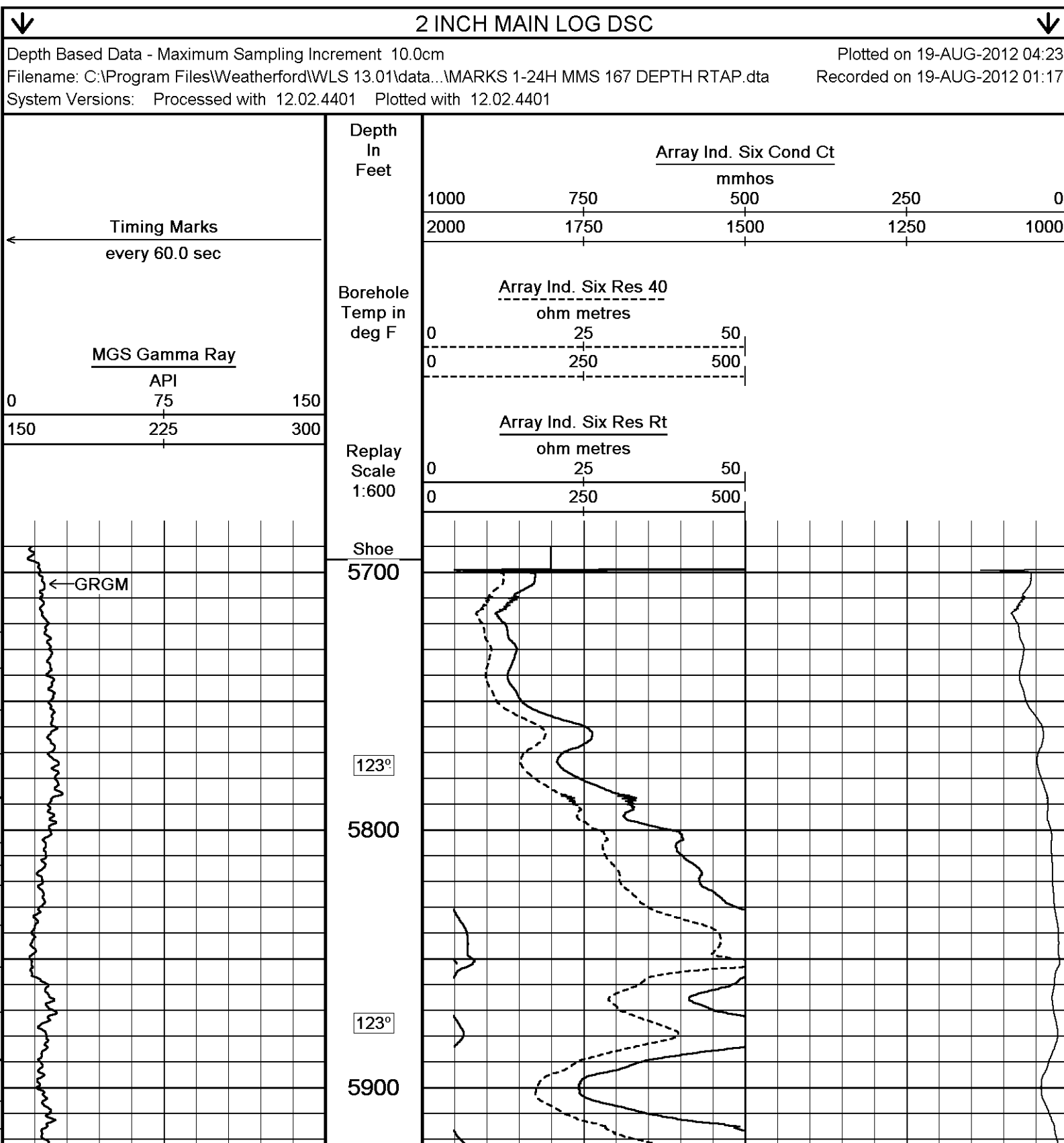
CONCRETE VOLUME TD TO INTERMEDIATE CASING = 380 CU FT

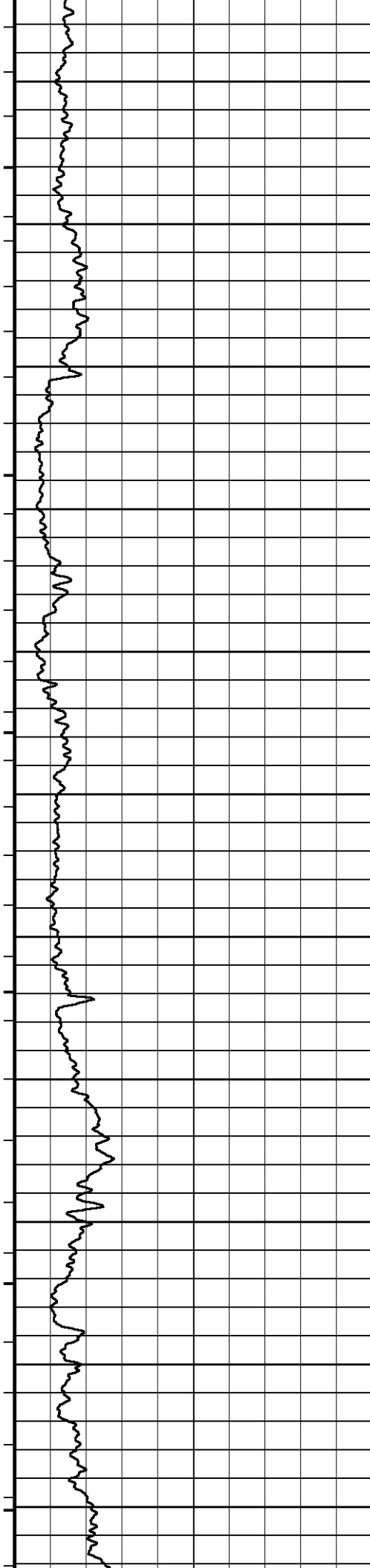
SERVICE ORDER # 3531686

RIG: LARIAT 41

OPERATORS: M. SLOBODKIN AND P BURGER

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.





124°

6000

124°

6100

124°

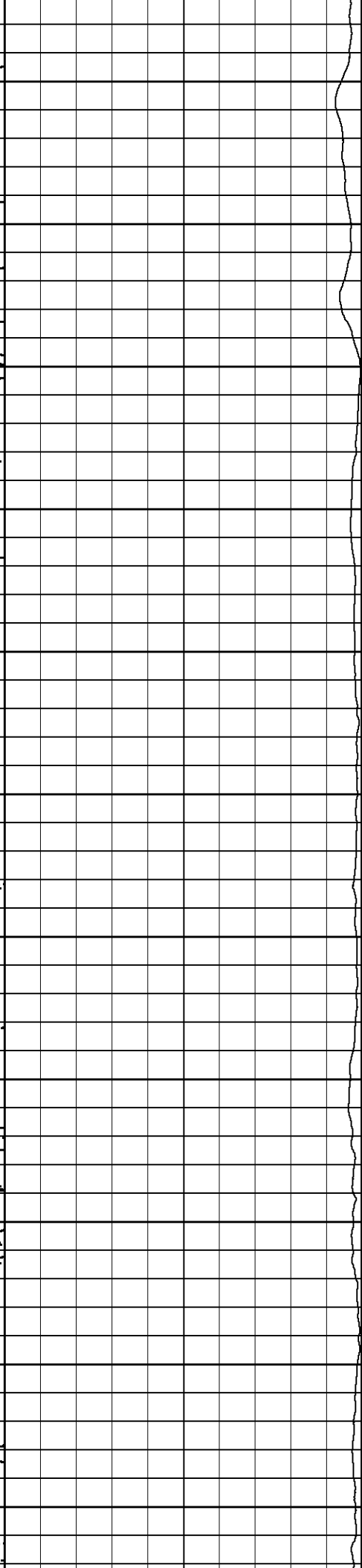
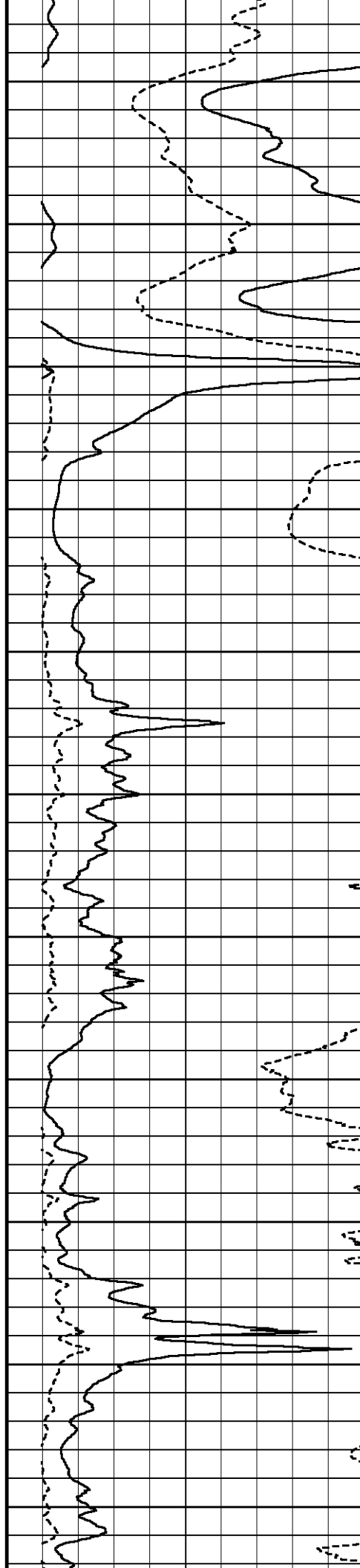
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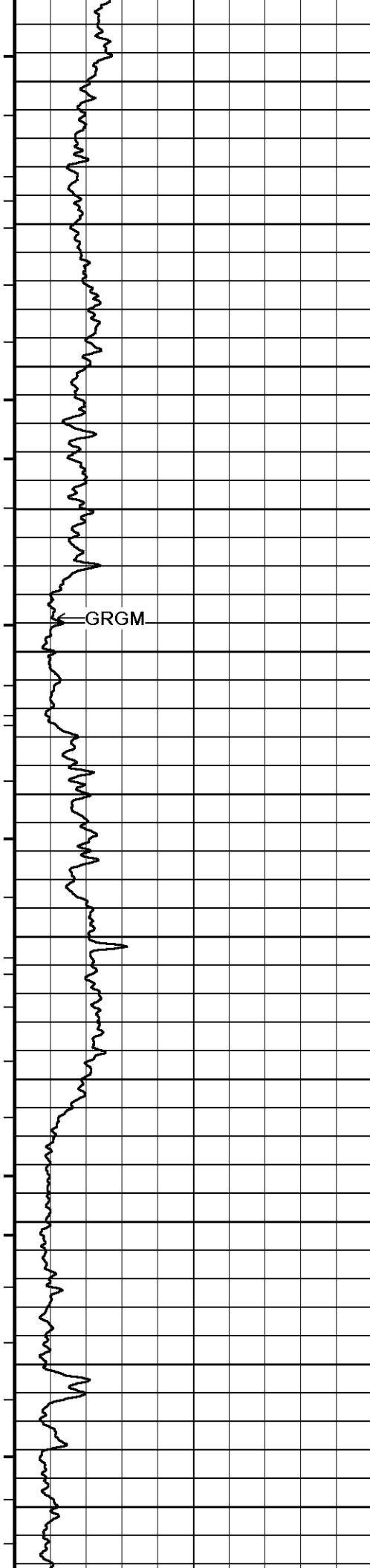
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6300

124°

6400





124°

6500

124°

6600

124°

6700

124°

6800

124°

6900

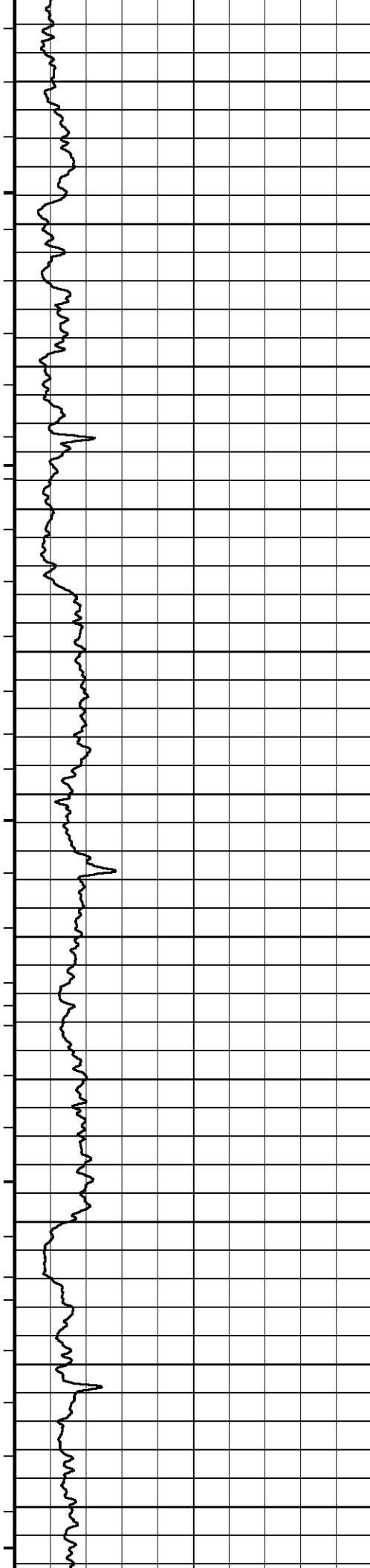
124°

7000

R40S

RTAS

CTAS



125°

7100

124°

7200

124°

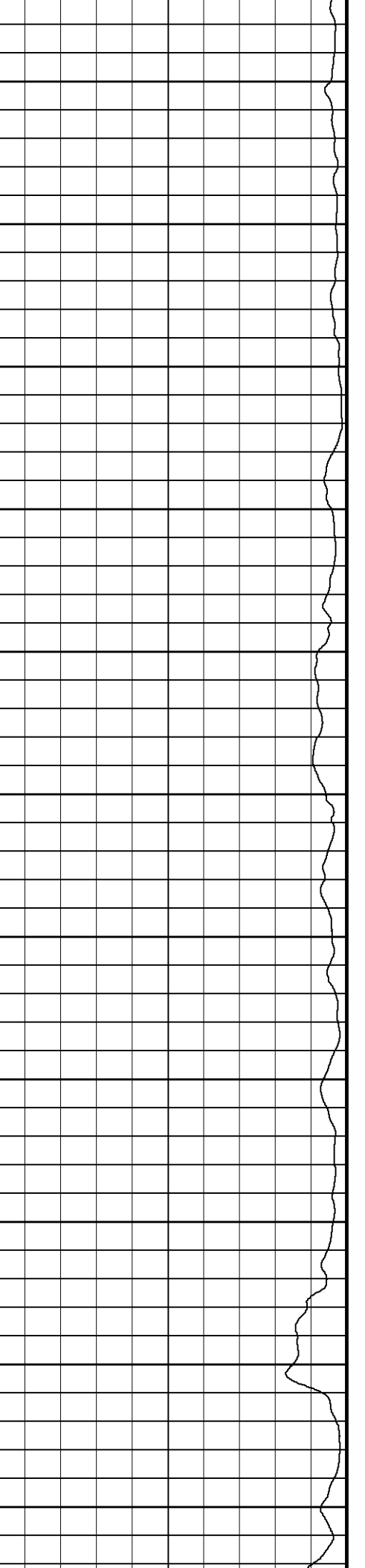
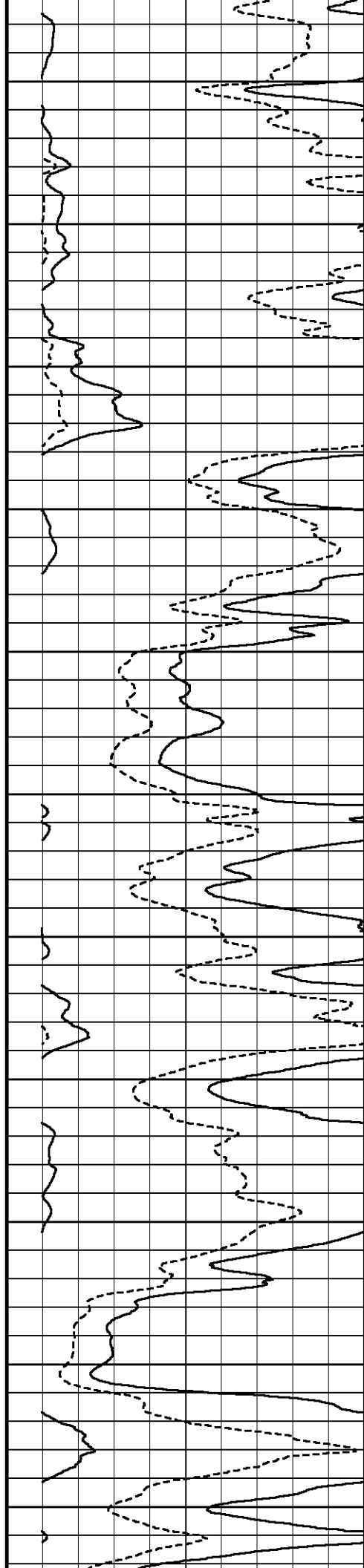
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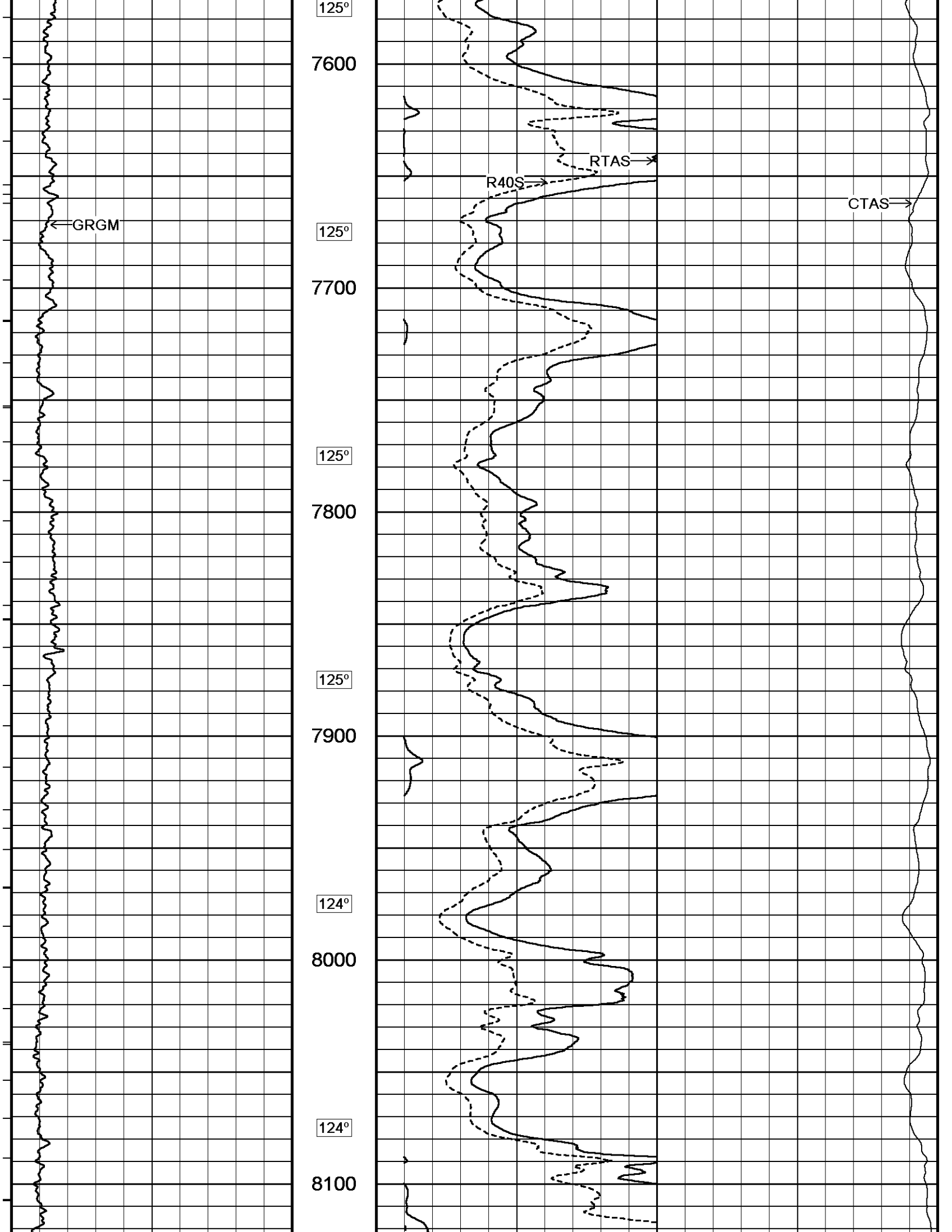
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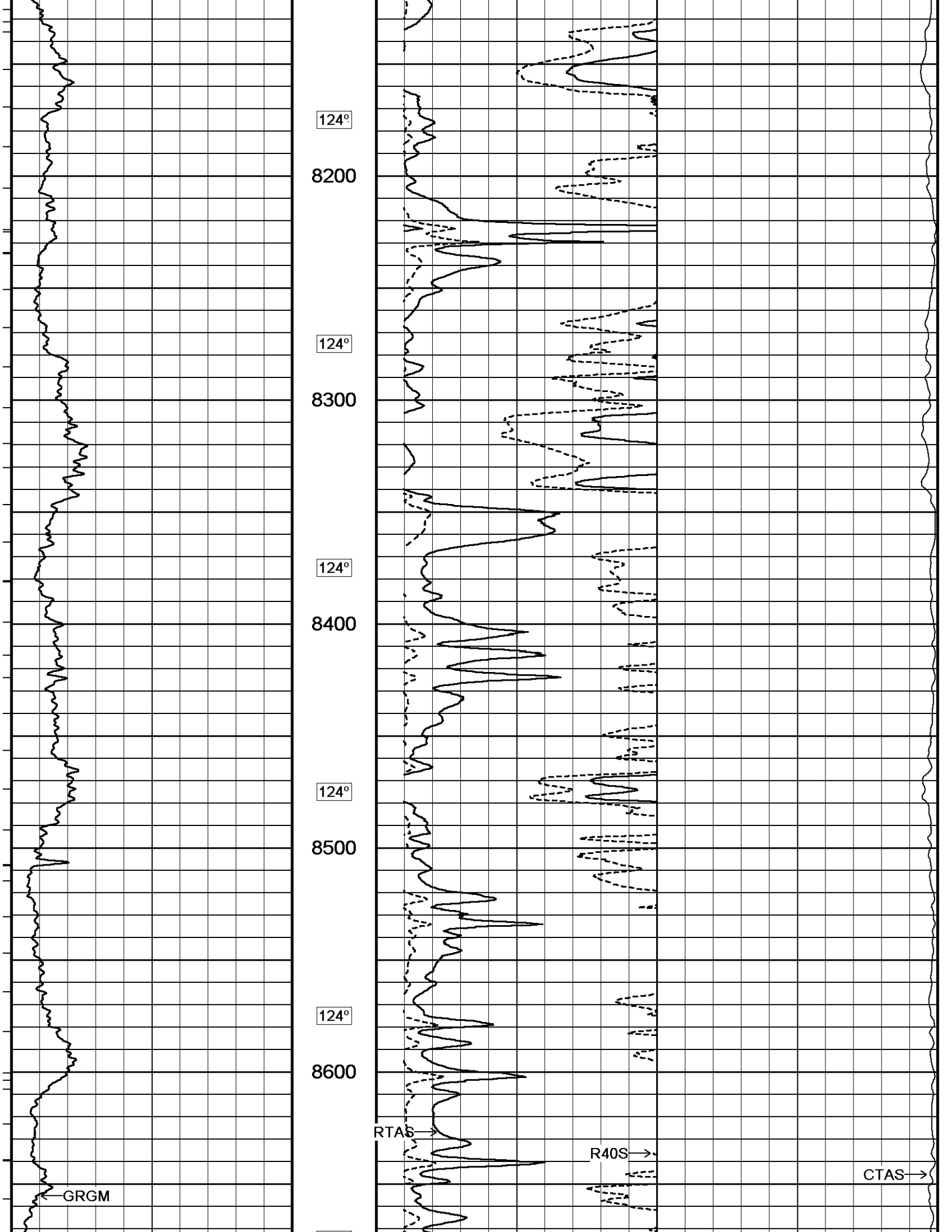
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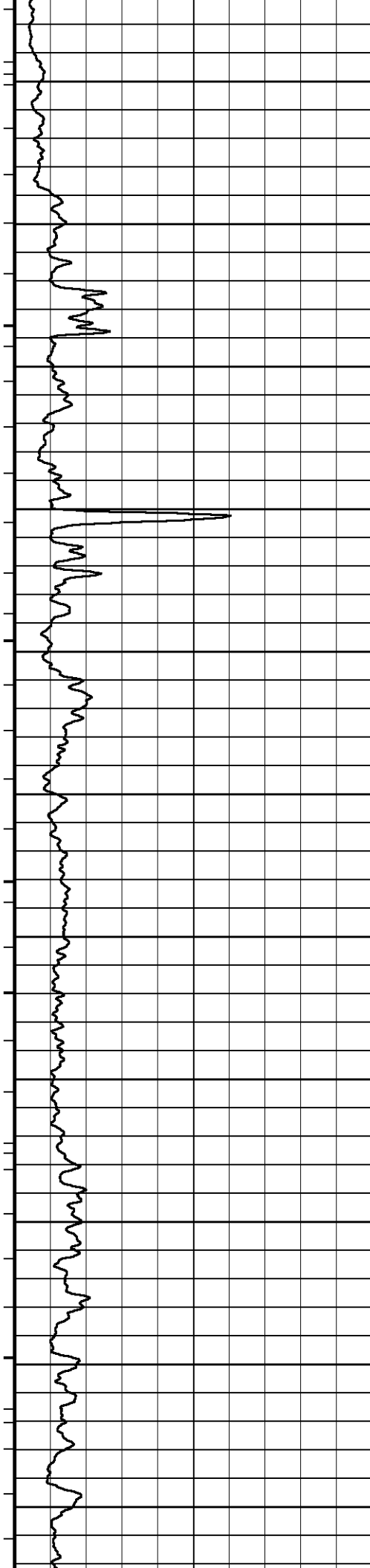
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7500









124°

8700

124°

8800

123°

8900

123°

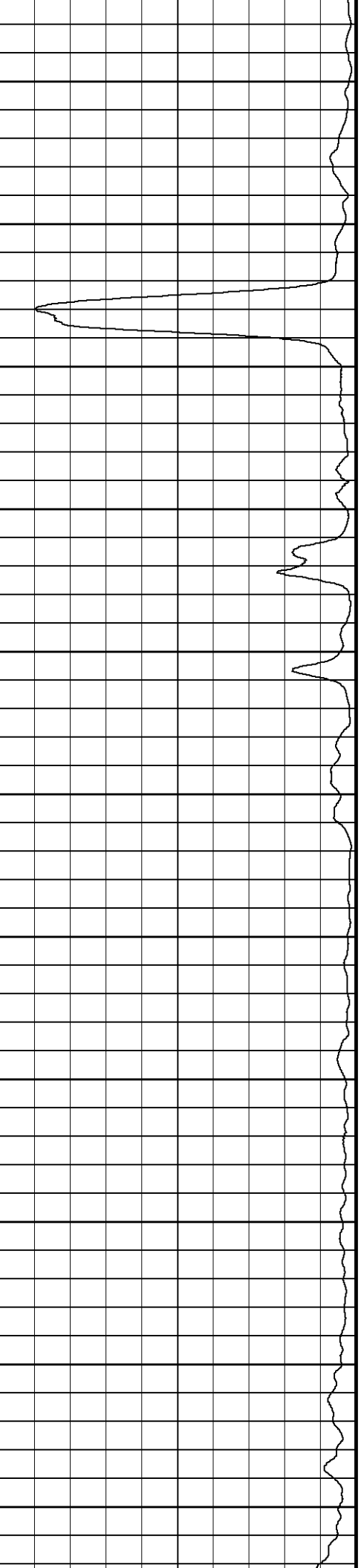
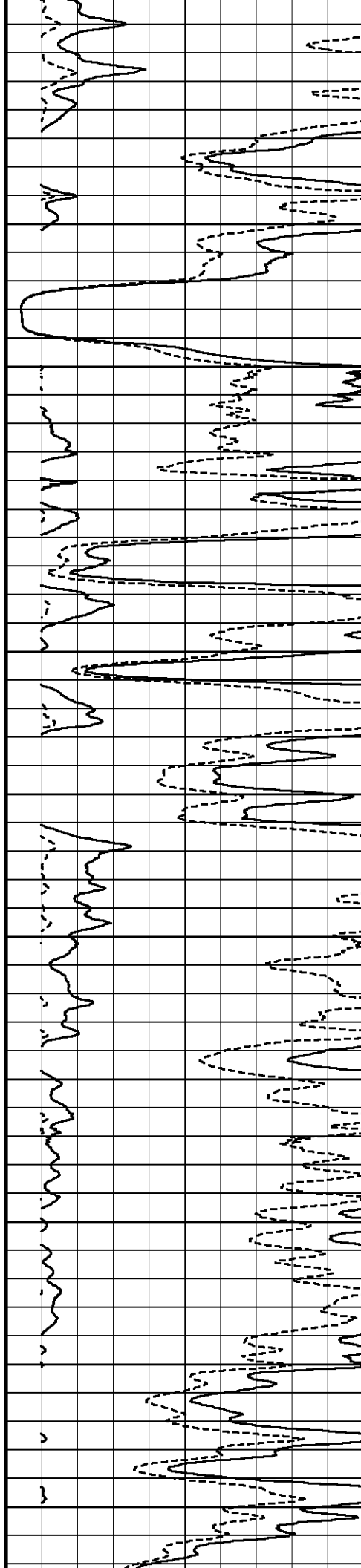
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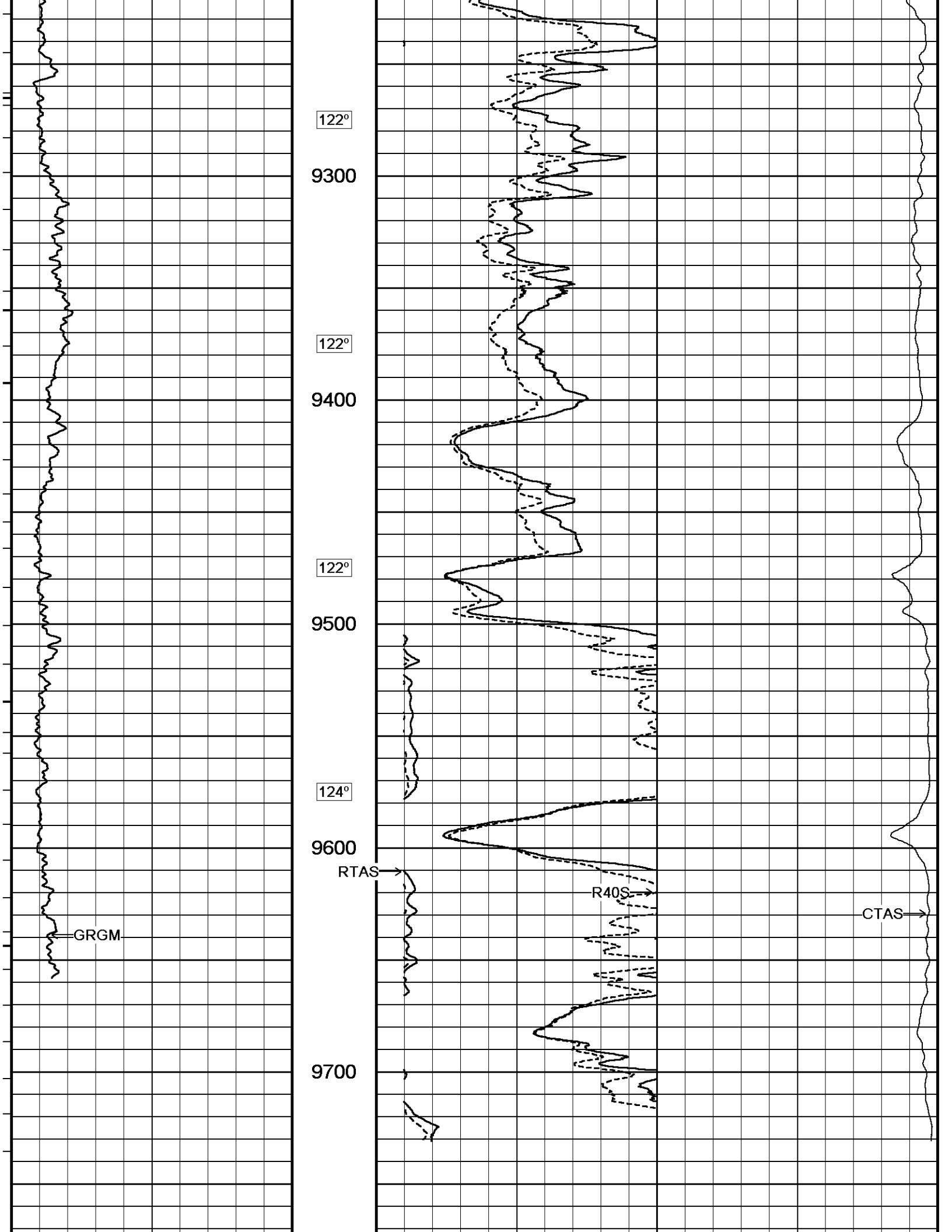
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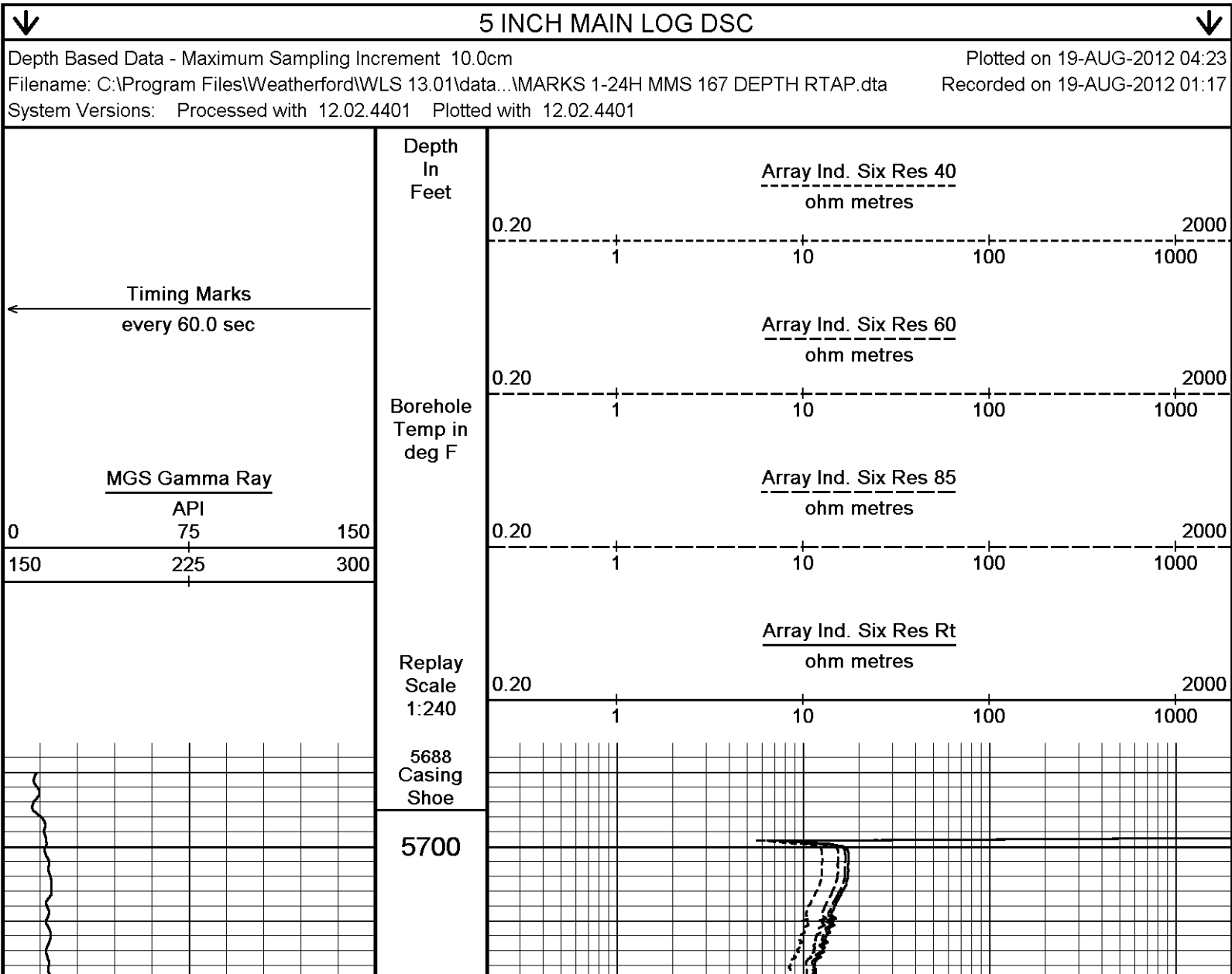
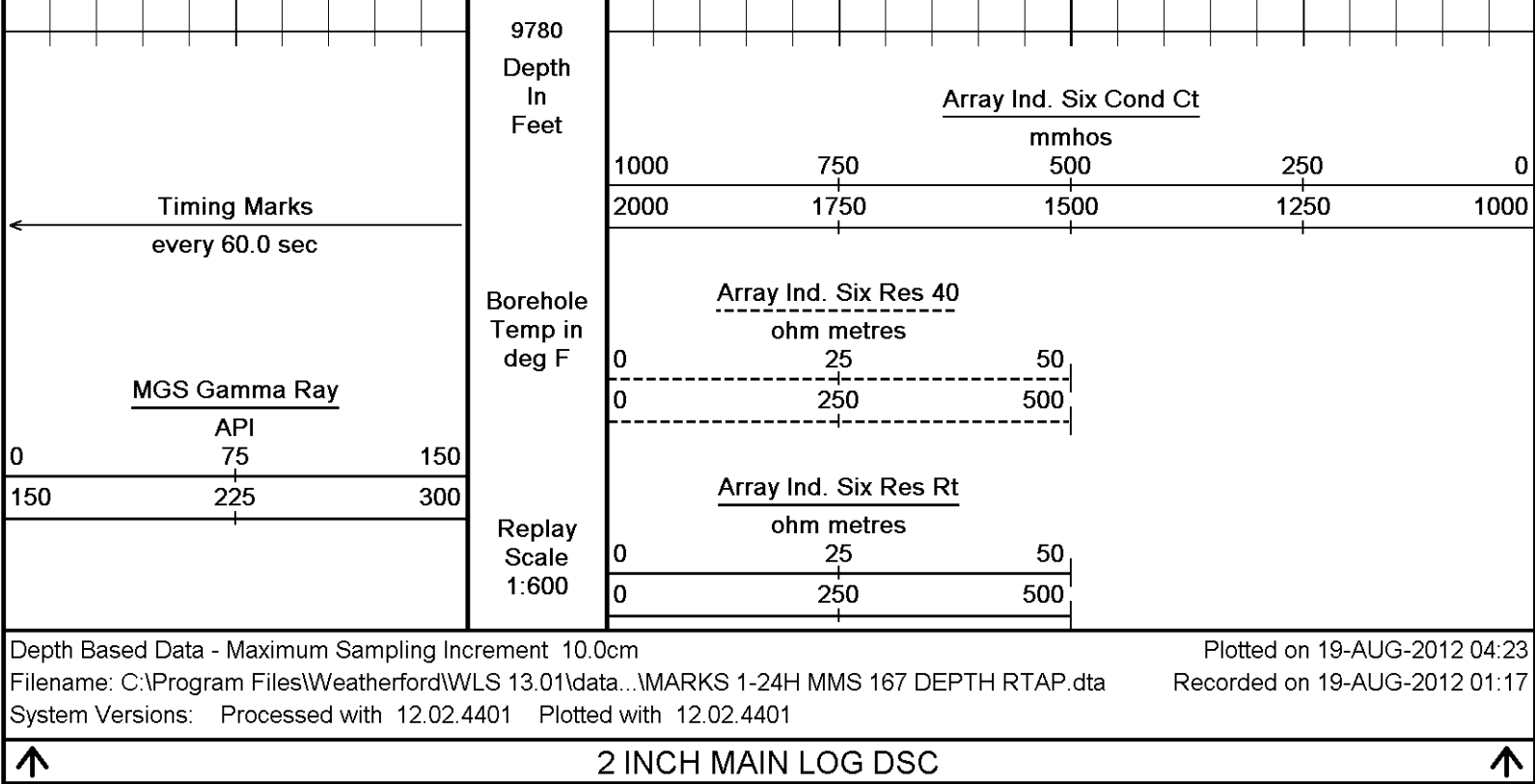
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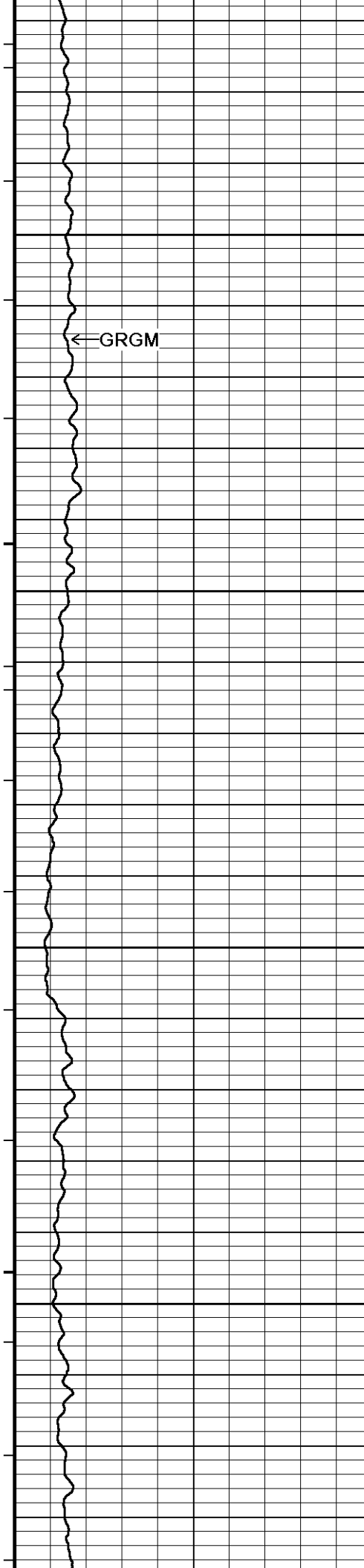
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9200









123°

5750

123°

5800

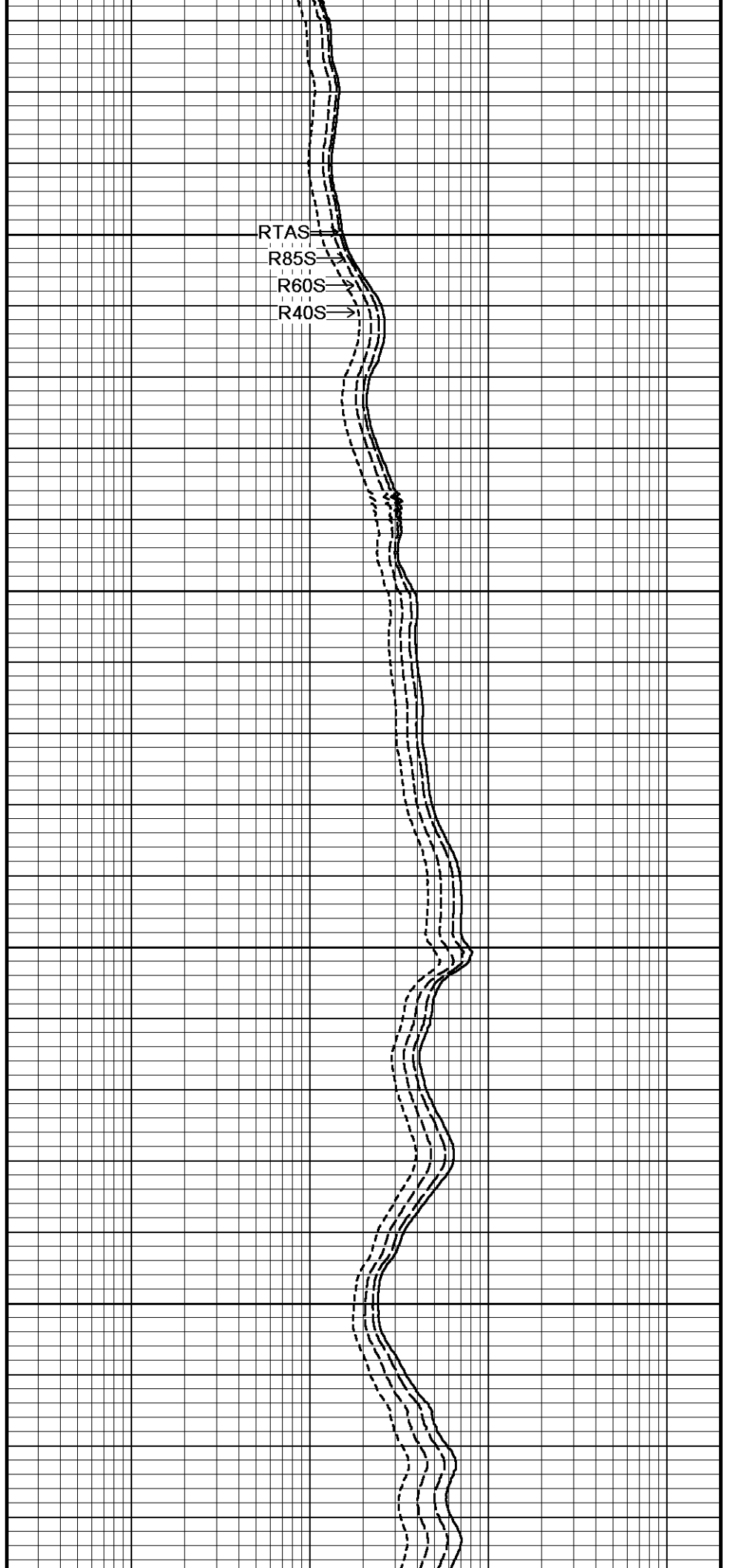
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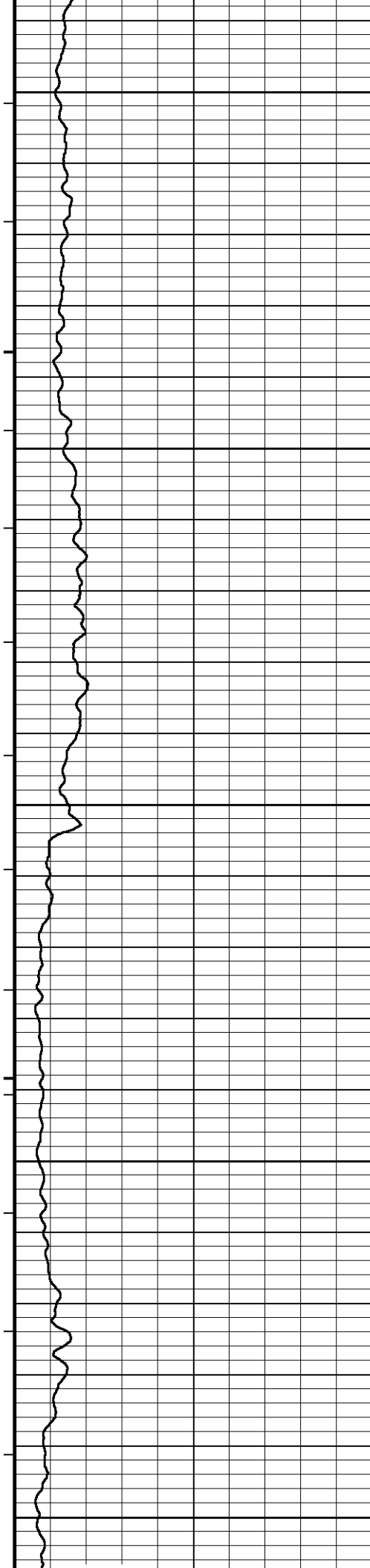
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123°

5900

124°





124°

5950

124°

6000

124°

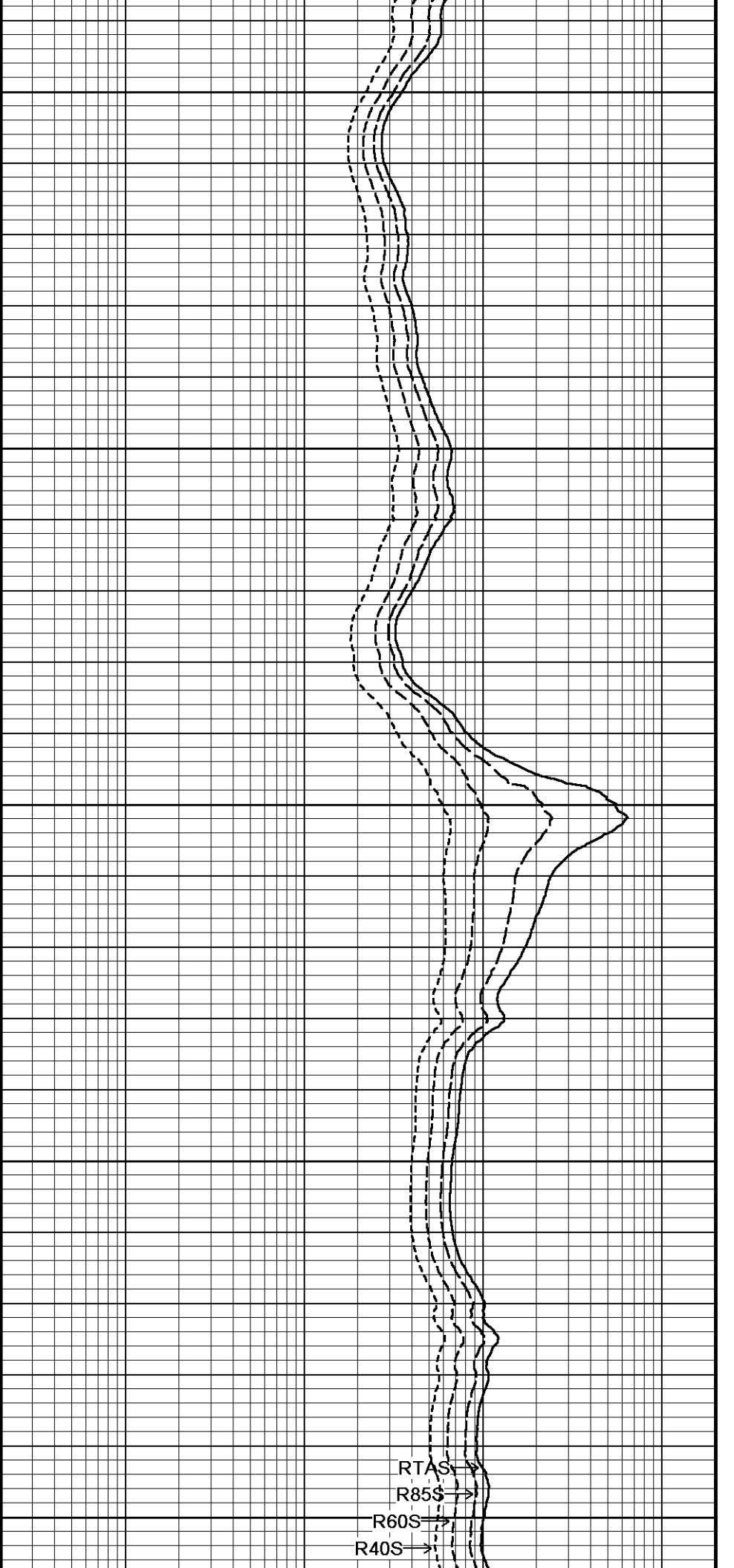
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124°

6100

124°

6150

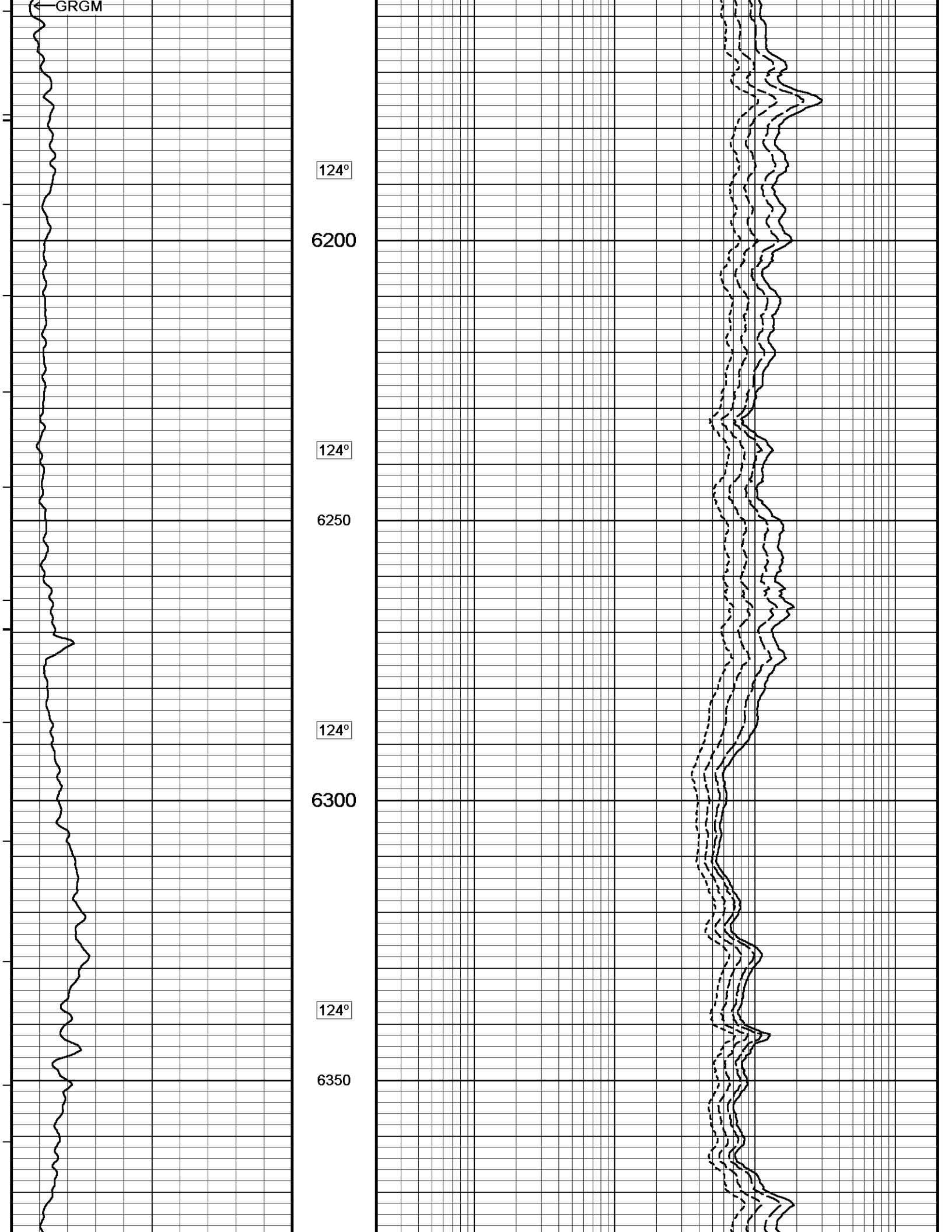


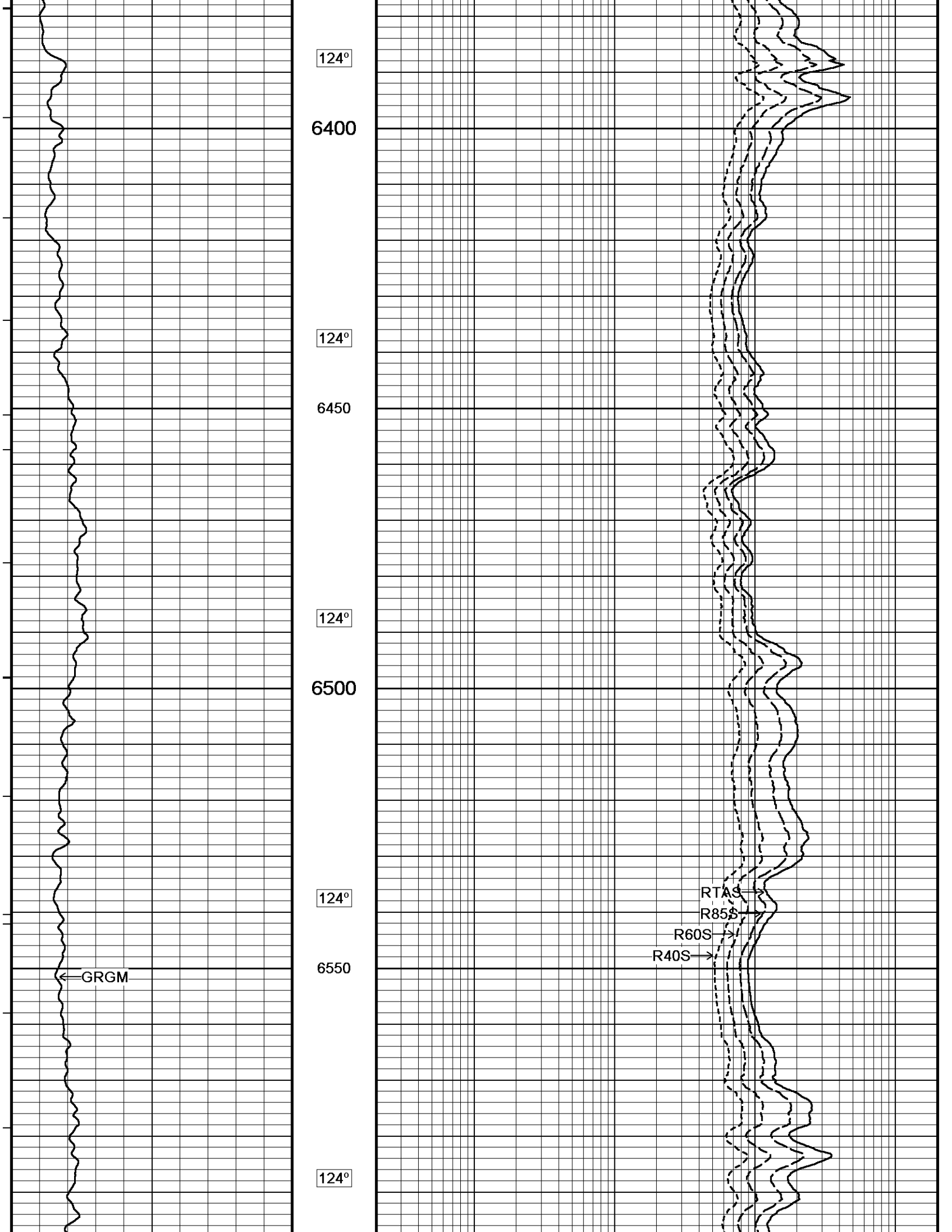
RTAS

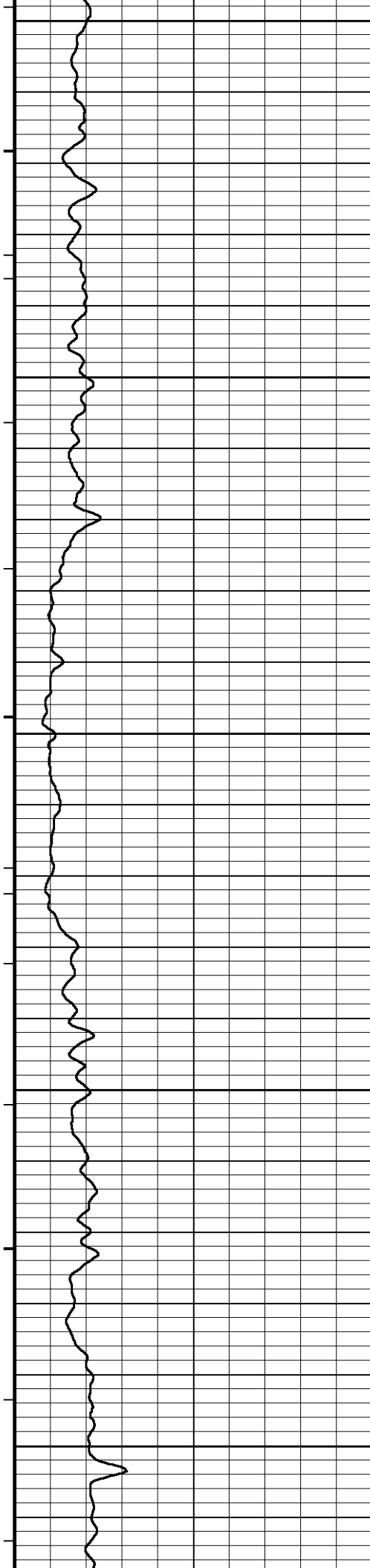
R85S

R60S

R40S







6600

124°

6650

124°

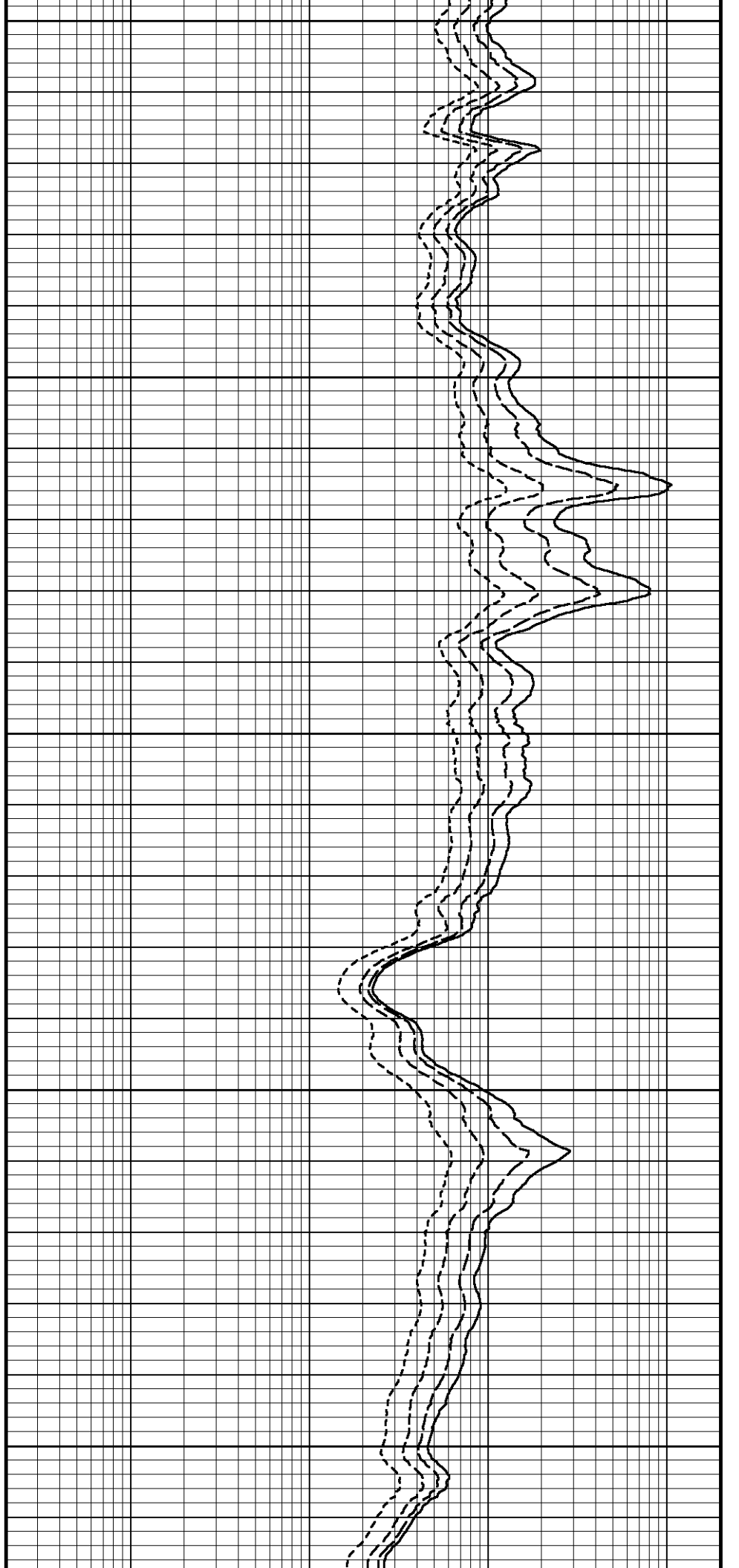
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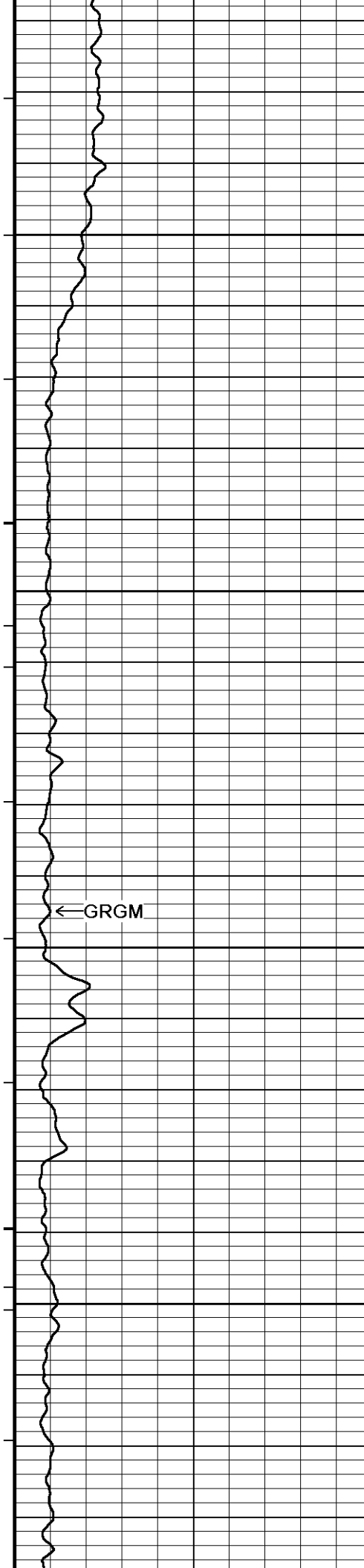
124°

6750

124°

6800





124°

6850

124°

6900

124°

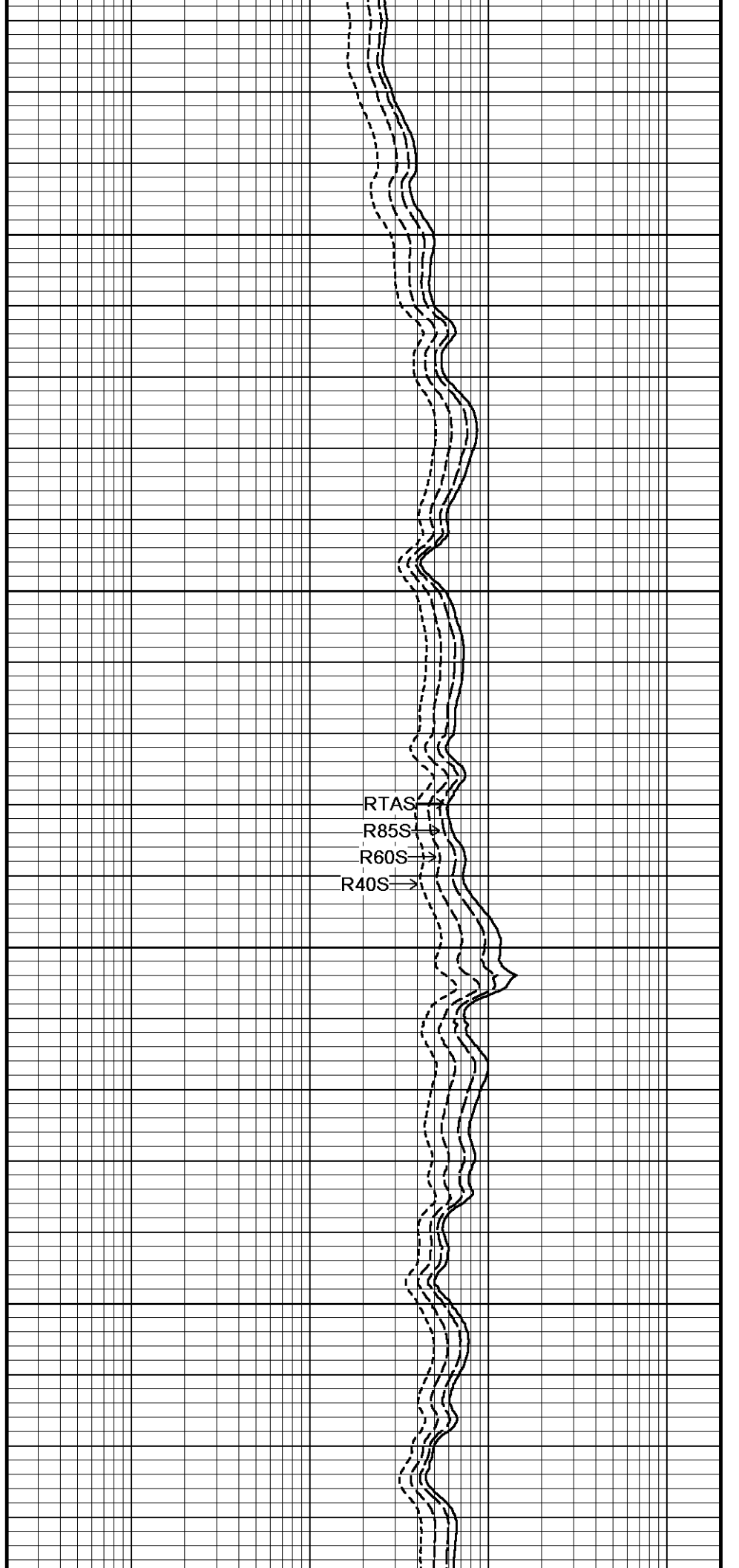
6950

124°

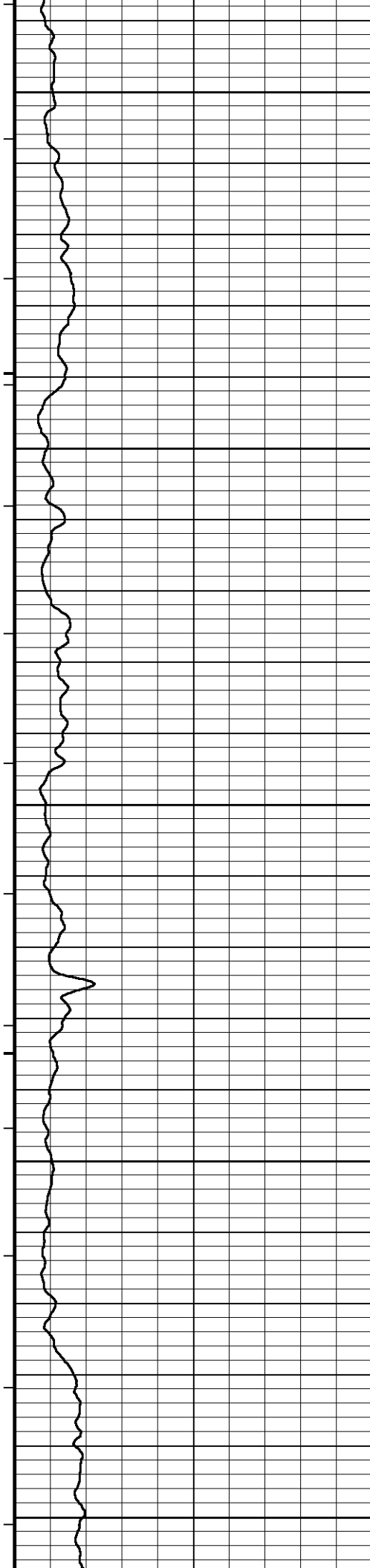
7000

124°

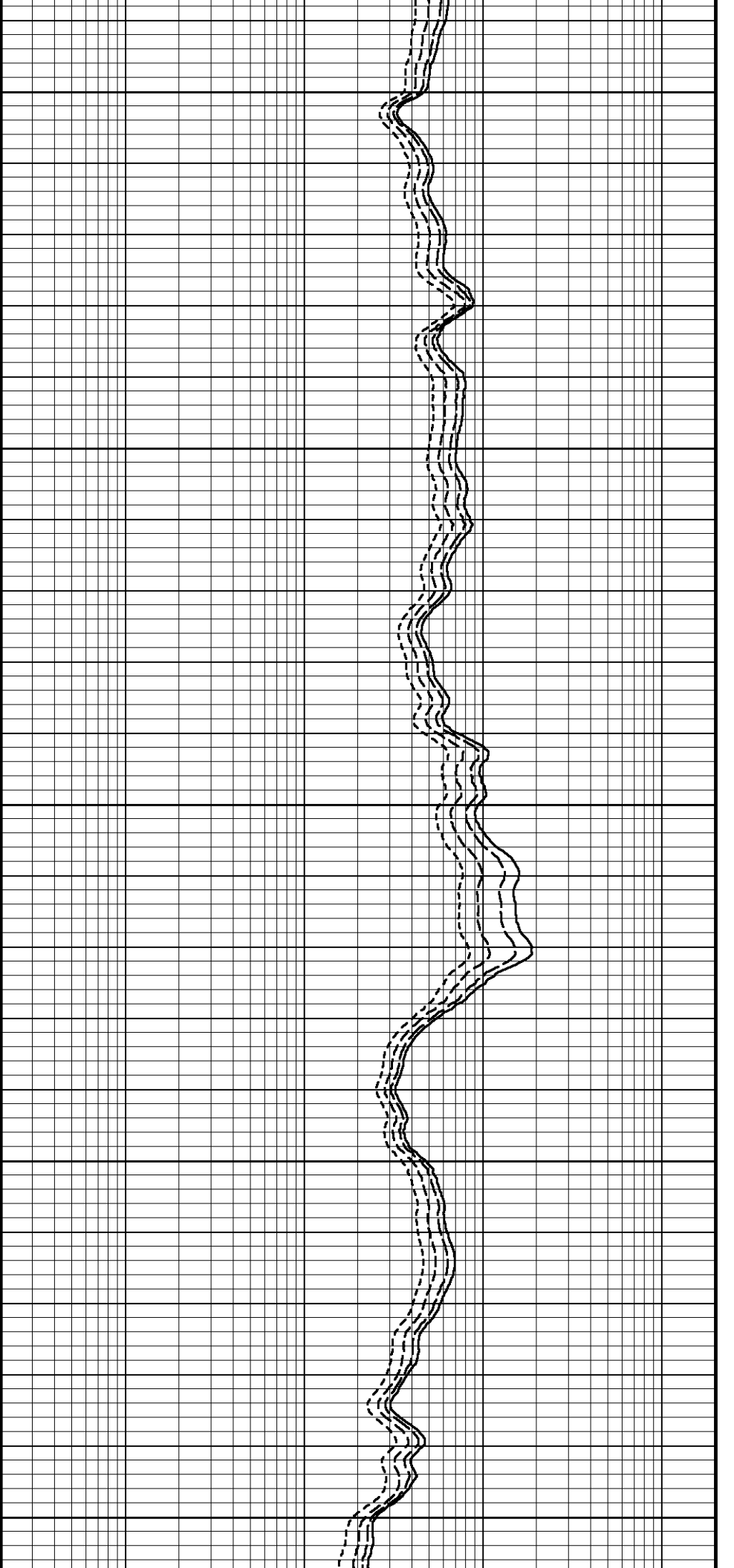
← GRGM

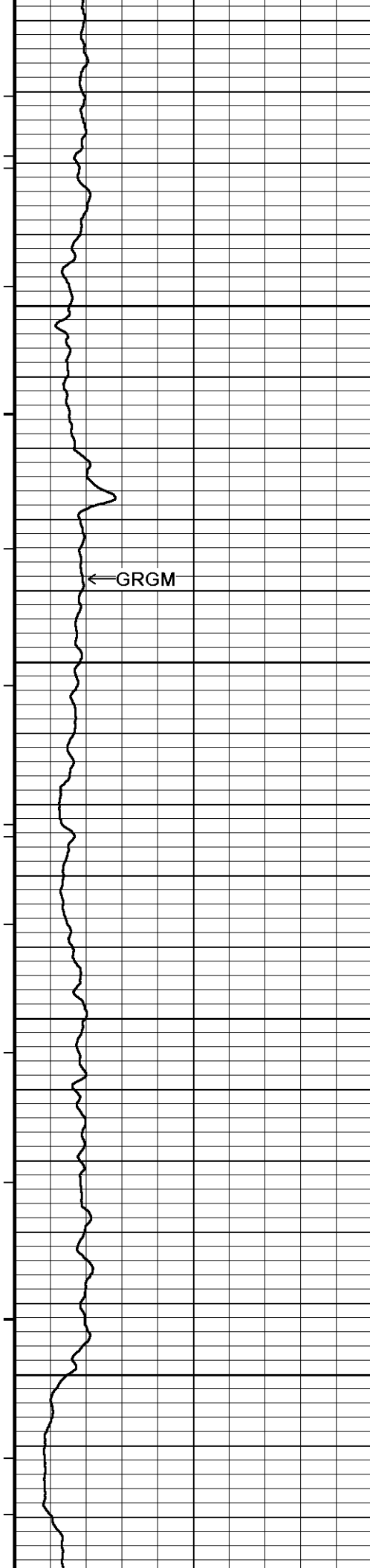


RTAS
R85S
R60S
R40S



124°
7050
125°
7100
124°
7150
124°
7200
124°
7250





← GRGM

124°

7300

124°

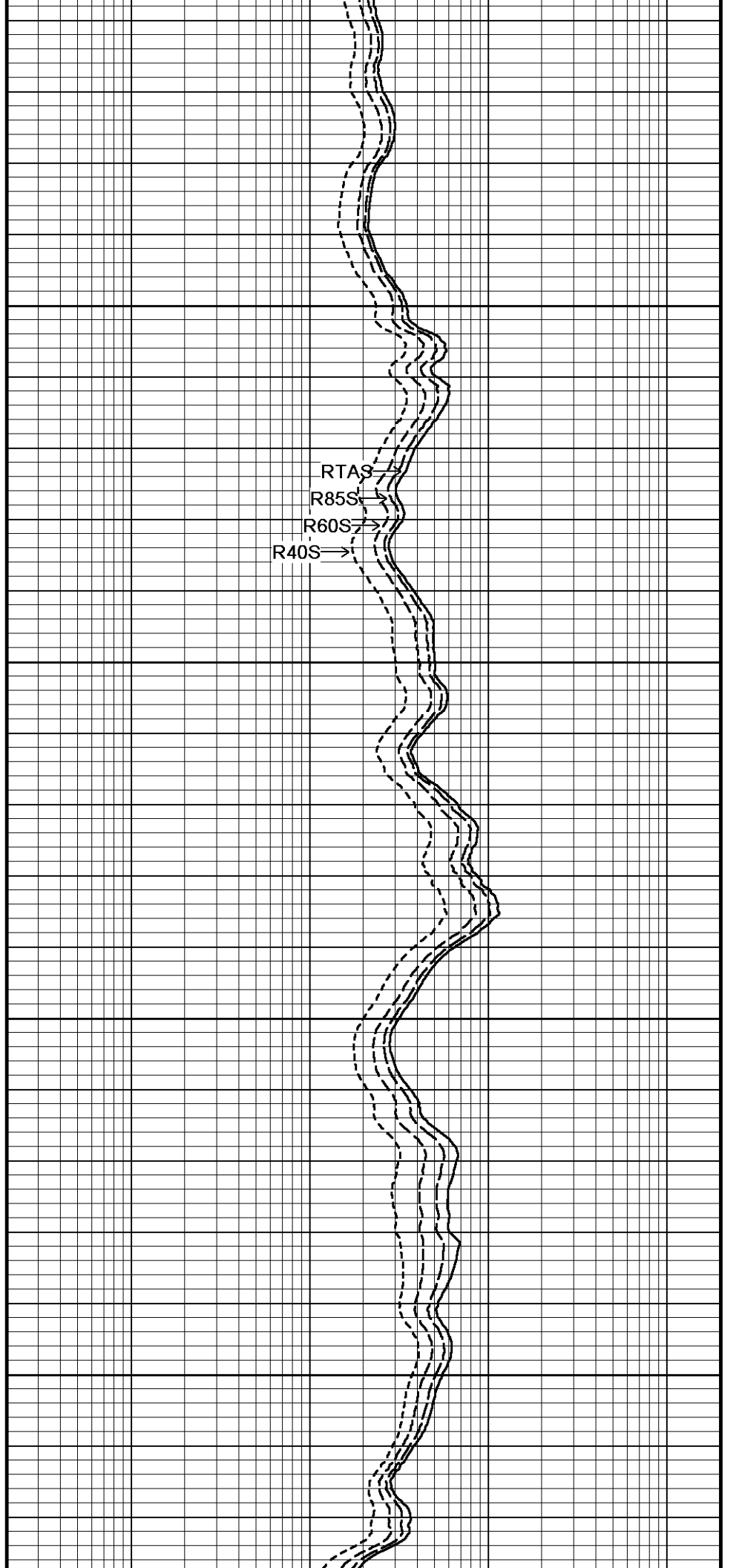
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125°

7400

125°

7450

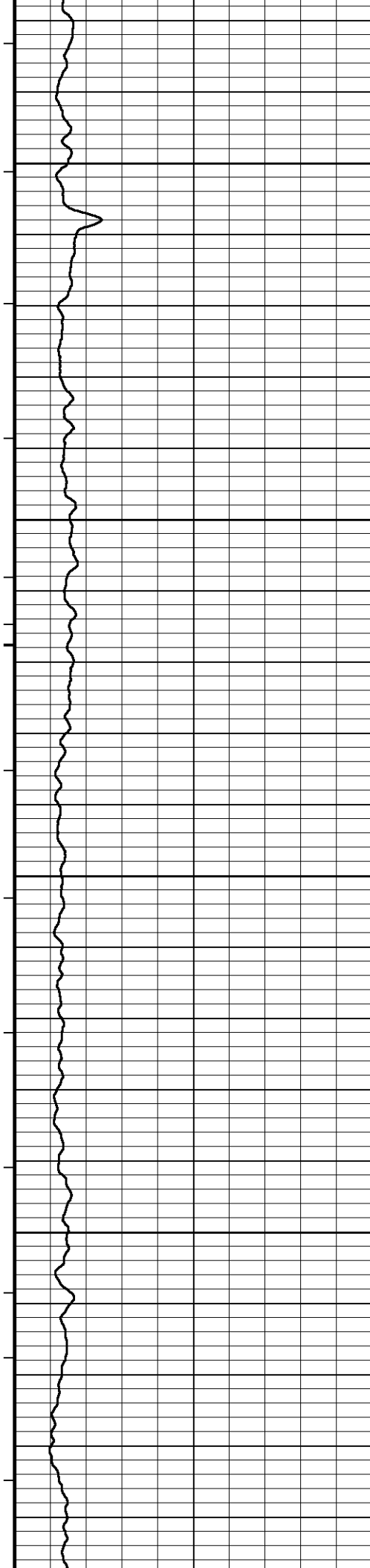


RTAS

R85S

R60S

R40S



125°

7500

125°

7550

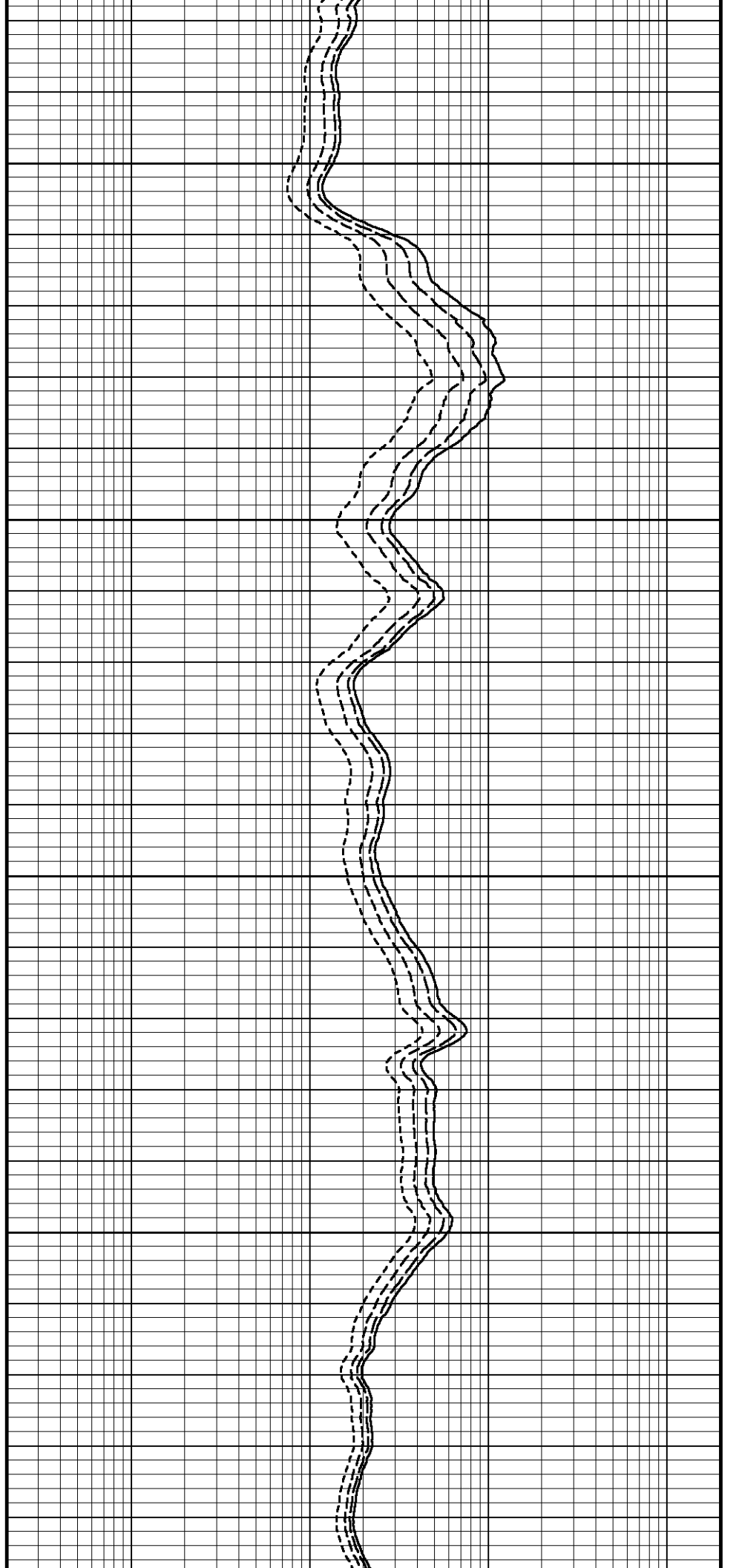
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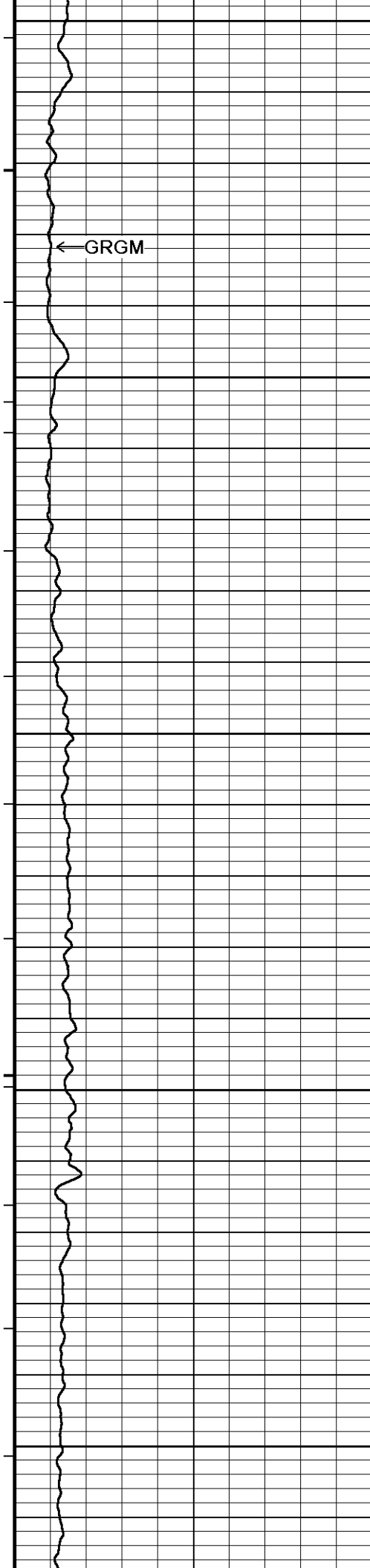
7600

125°

7650

125°





7700

125°

7750

125°

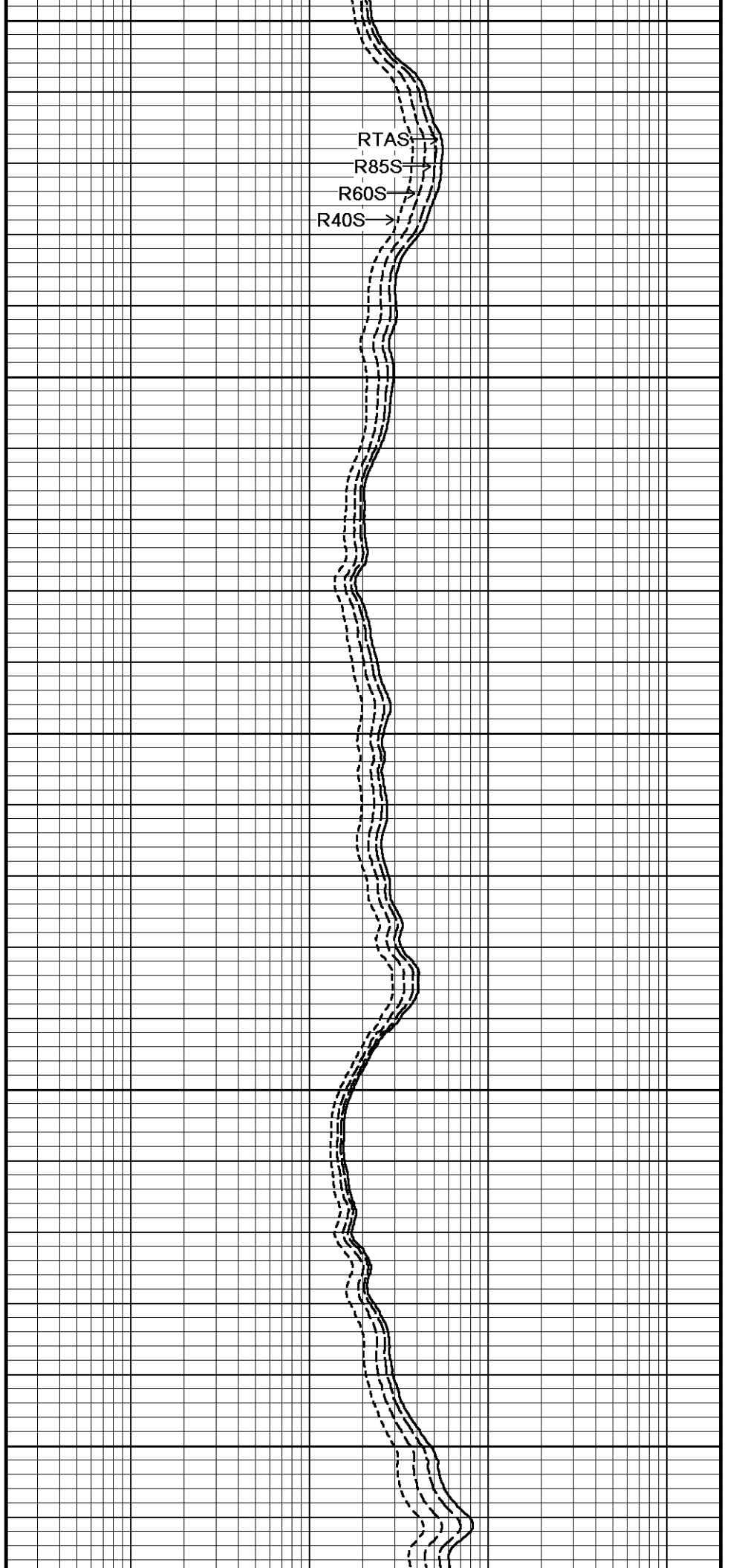
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125°

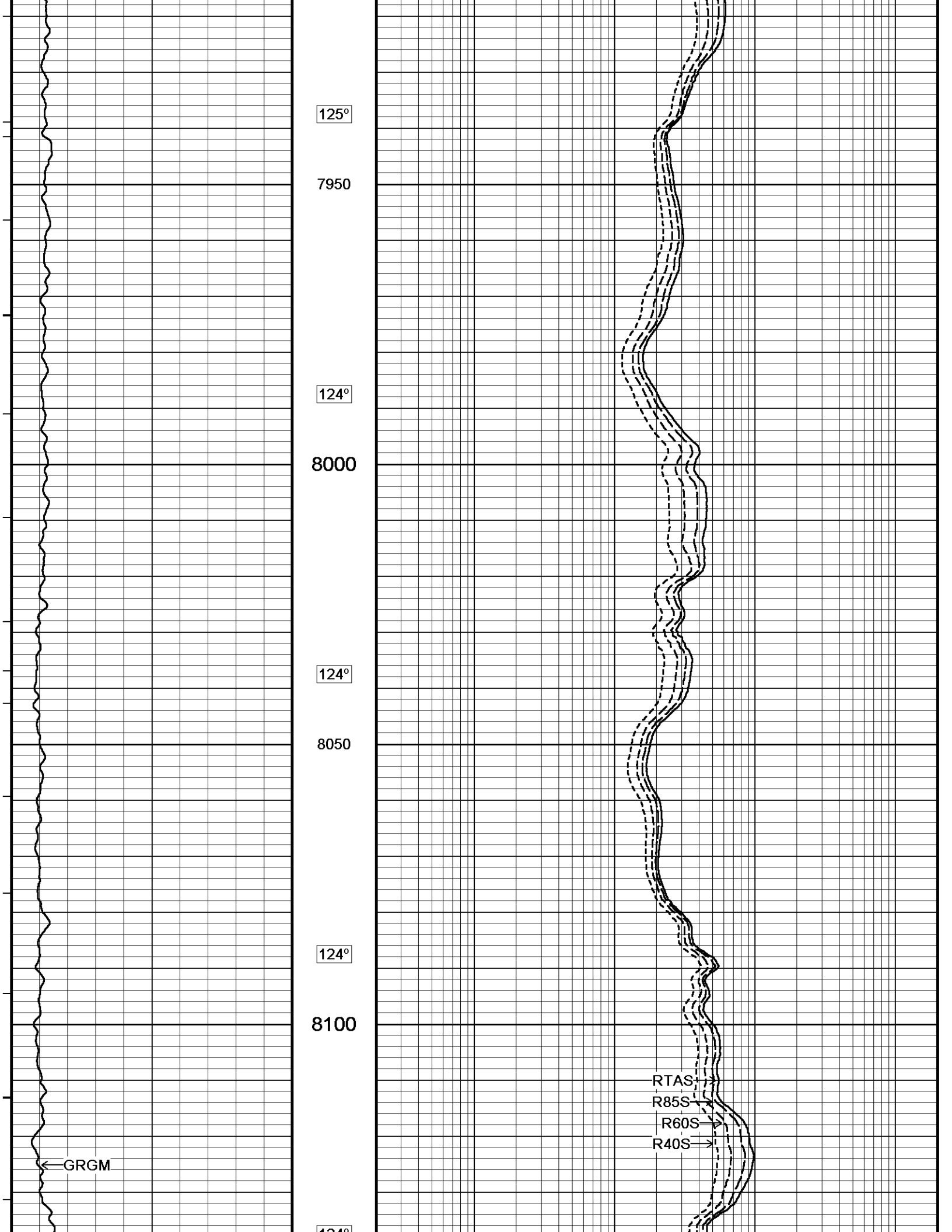
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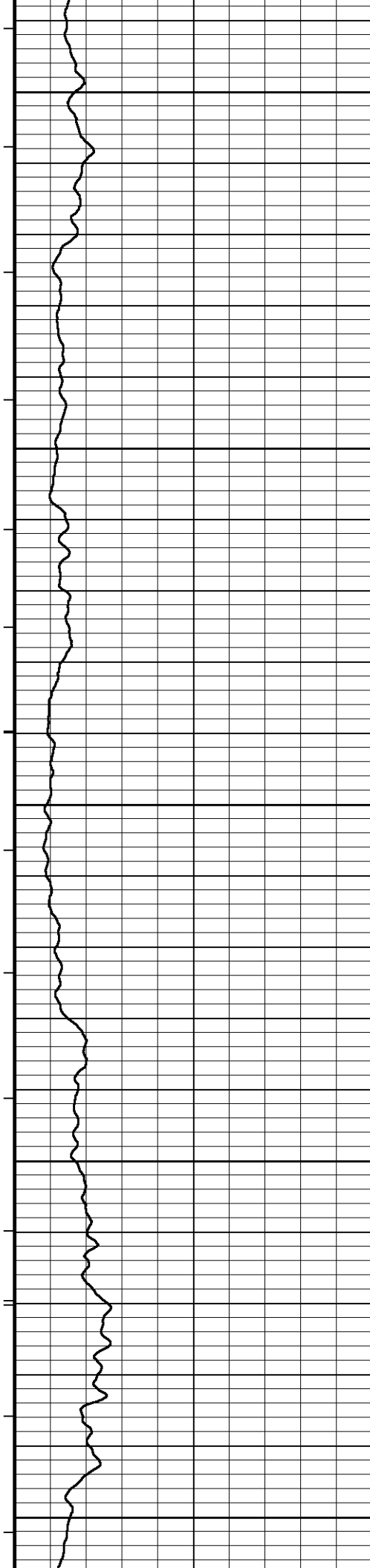
125°

7900



RTAS
R85S
R60S
R40S





124°

8150

124°

8200

124°

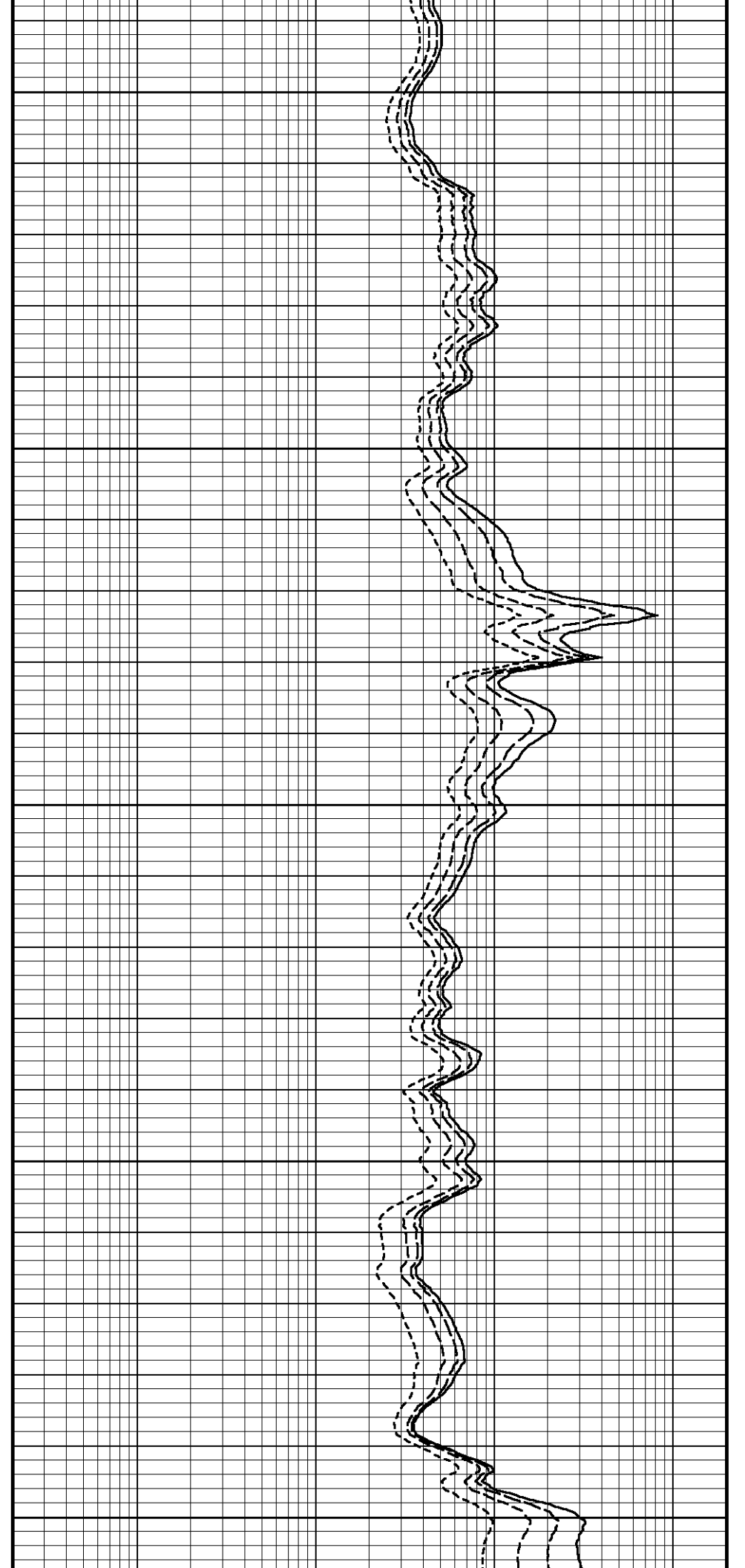
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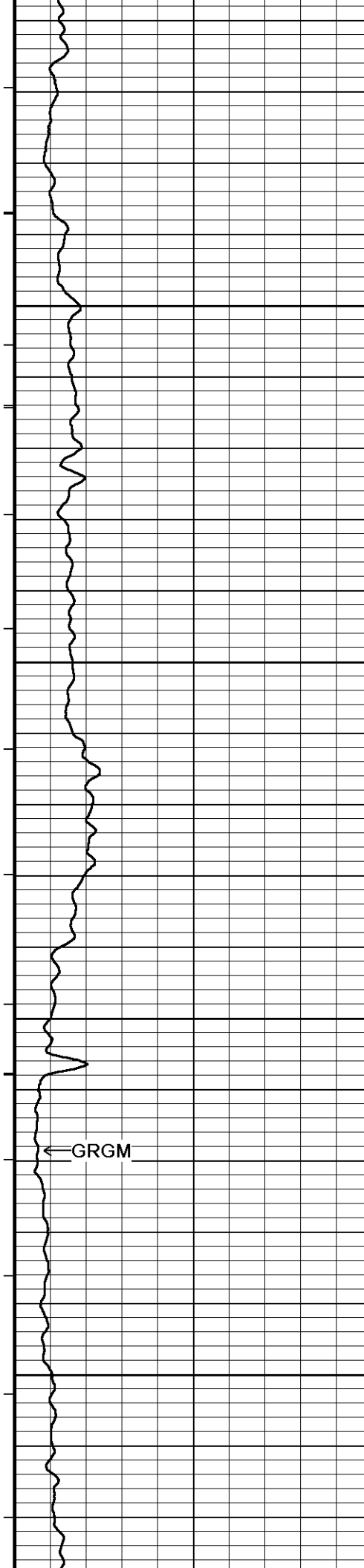
124°

8300

124°

8350





124°

8400

124°

8450

124°

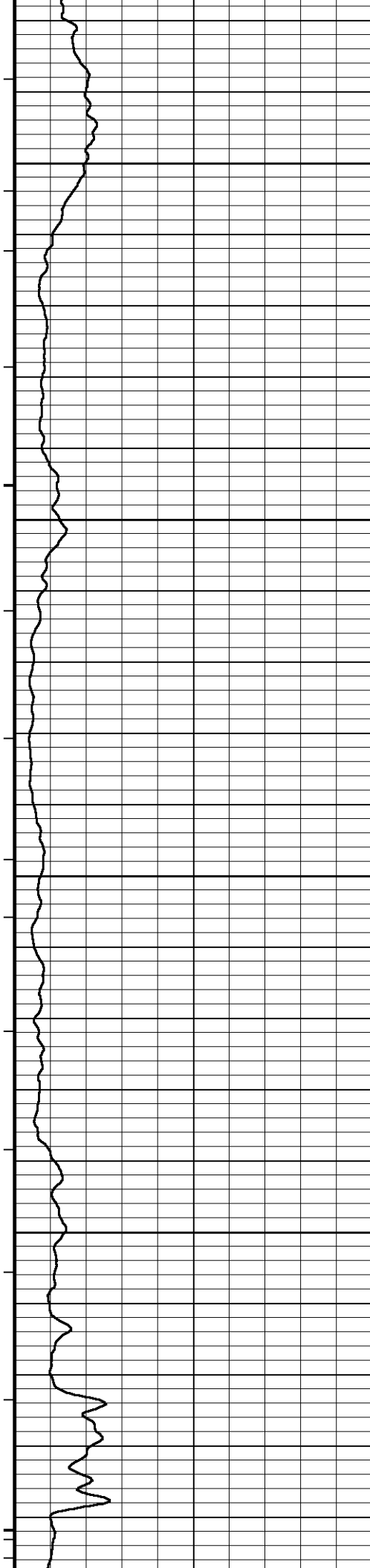
8500

124°

8550

← GRGM

RTAS →
R85S →
R60S →
R40S →



124°

8600

124°

8650

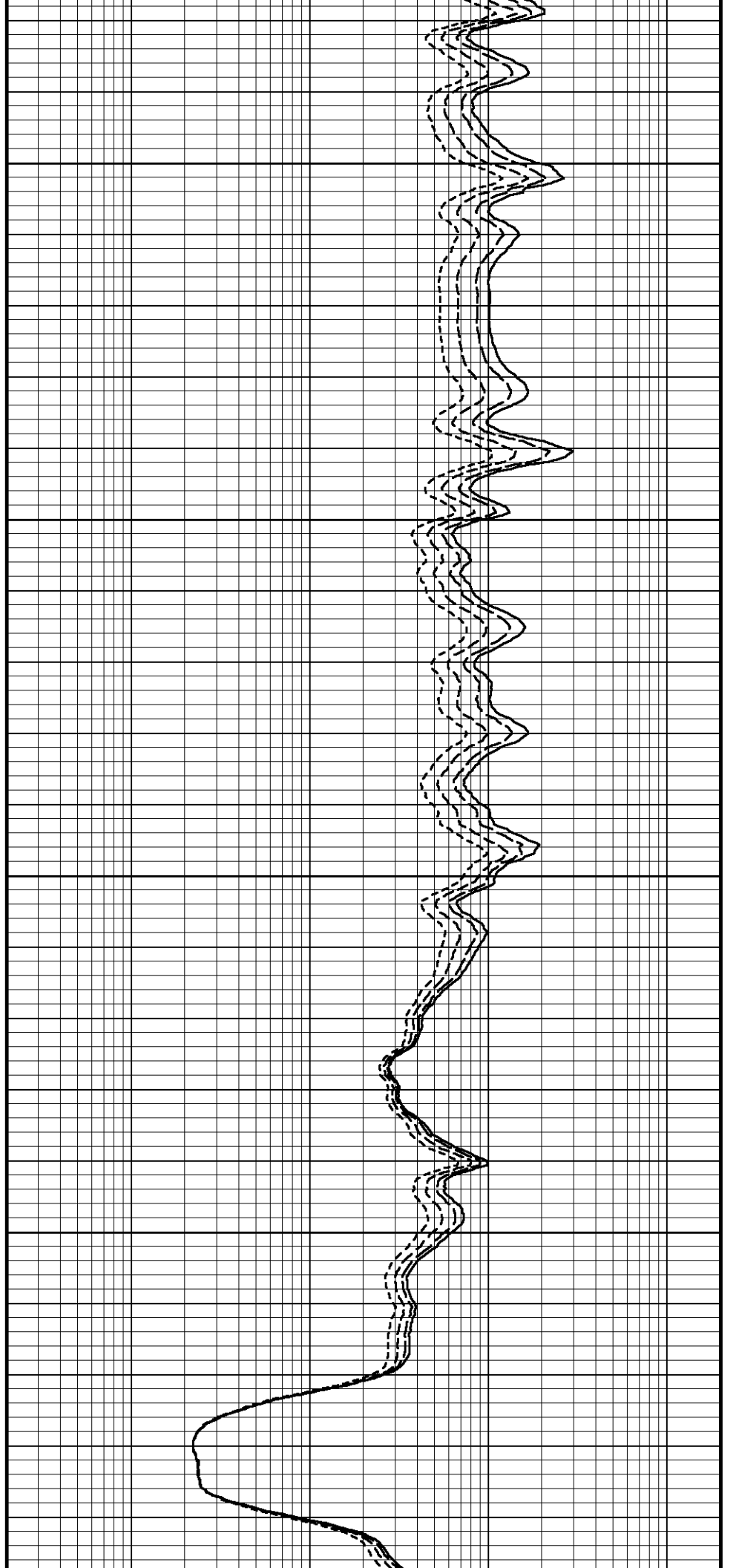
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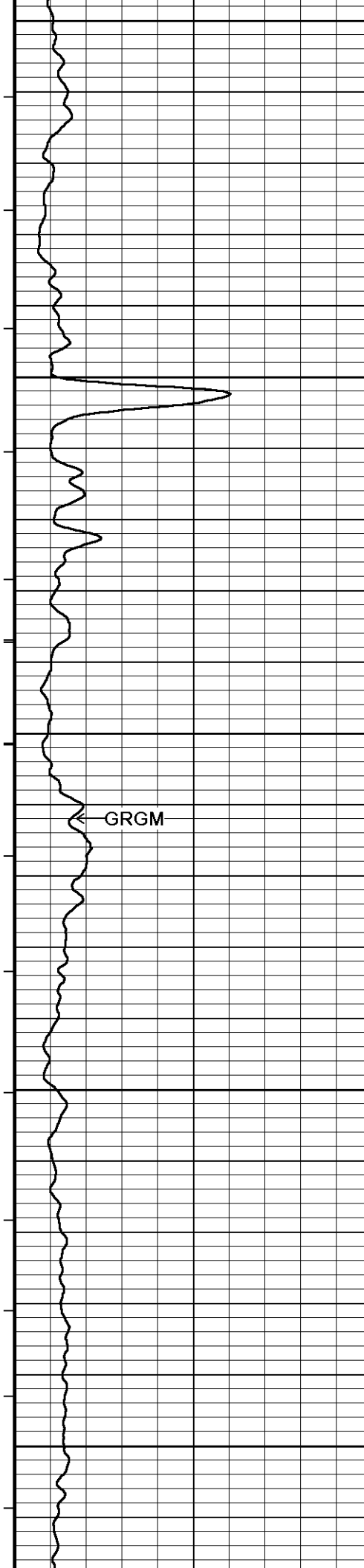
8700

124°

8750

124°





8800

123°

8850

123°

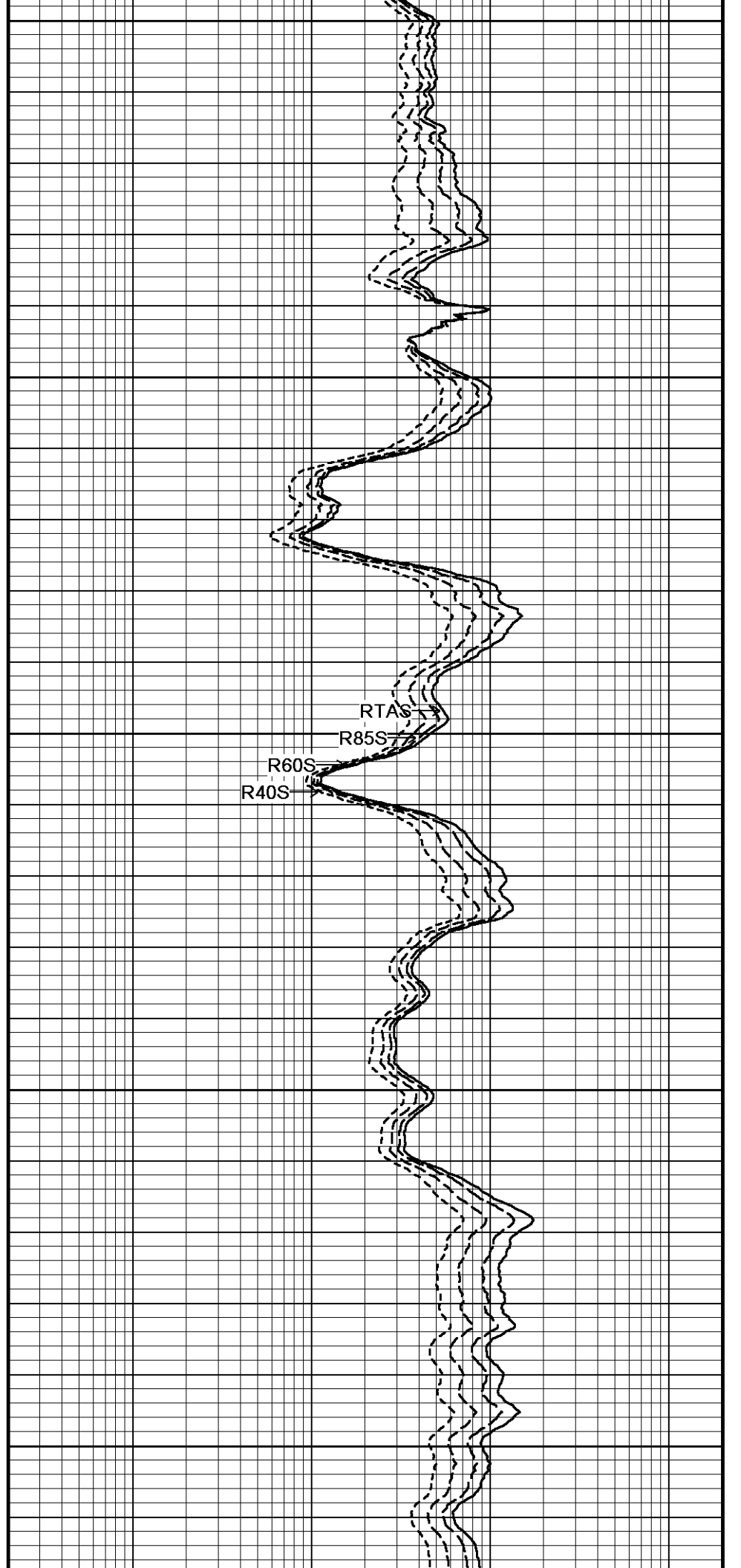
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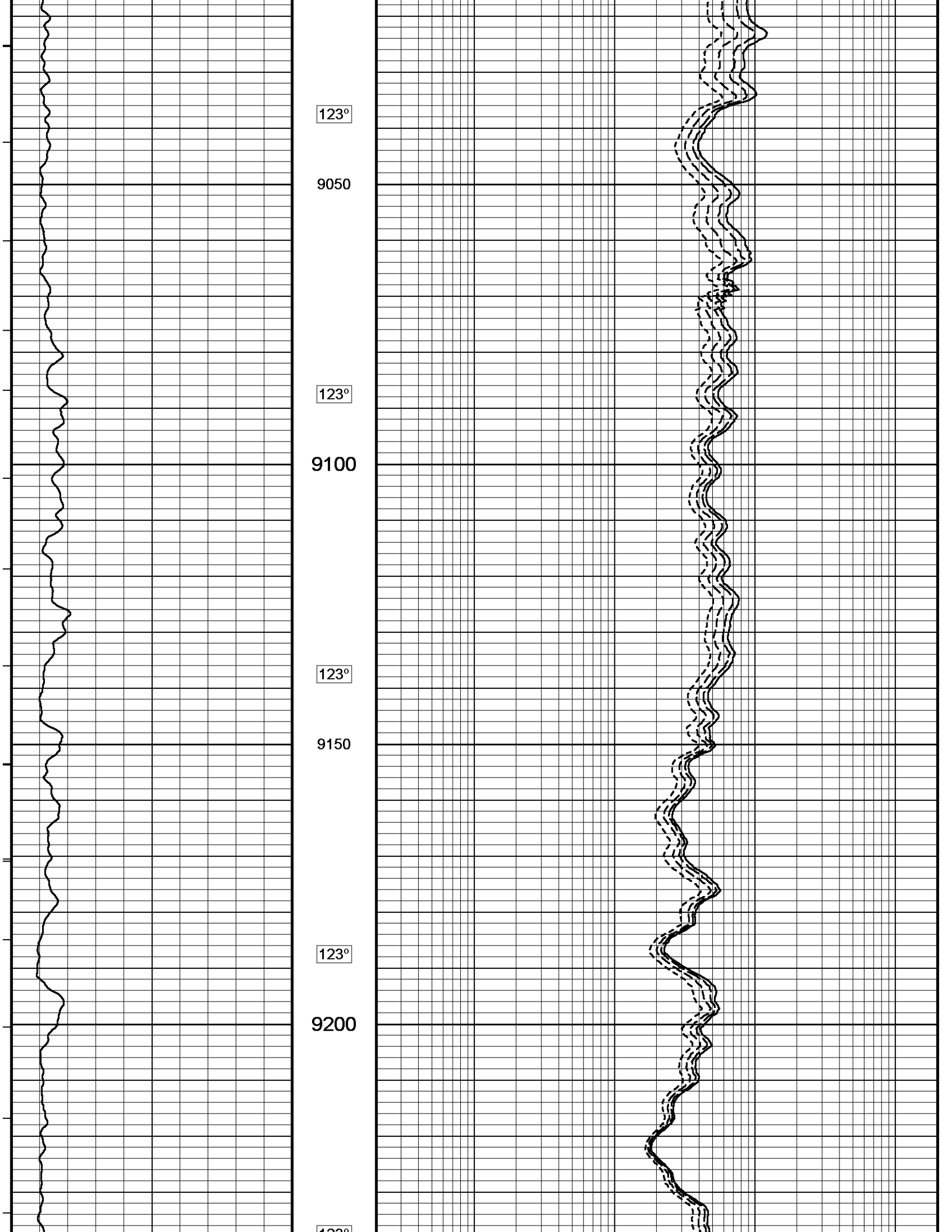
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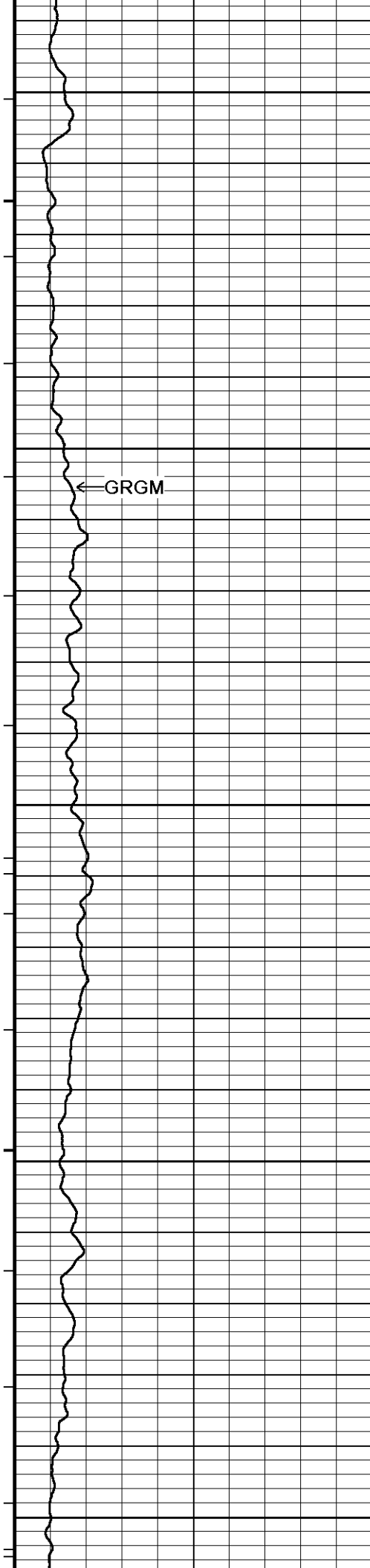
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123°

9000







← GRGM

123°

9250

122°

9300

122°

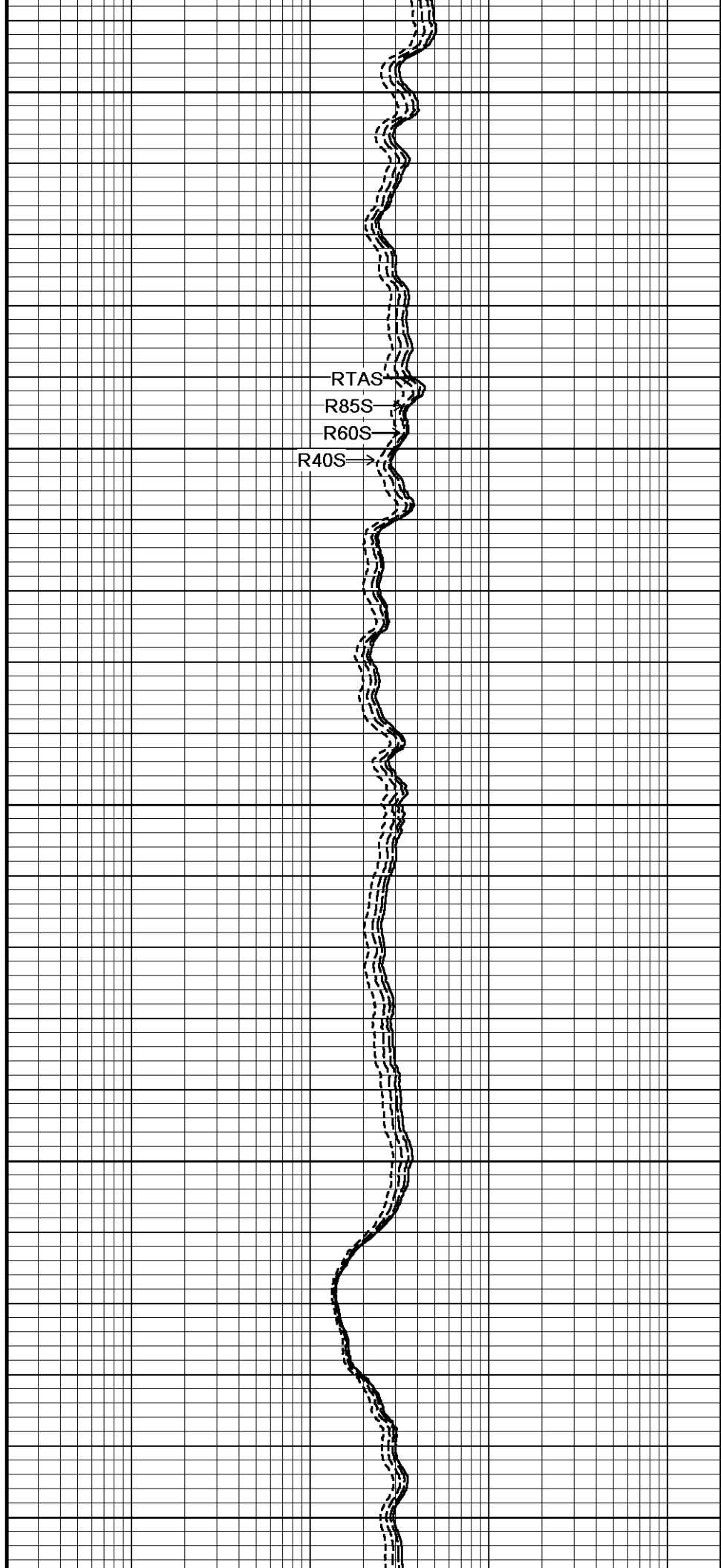
9350

122°

9400

122°

9450

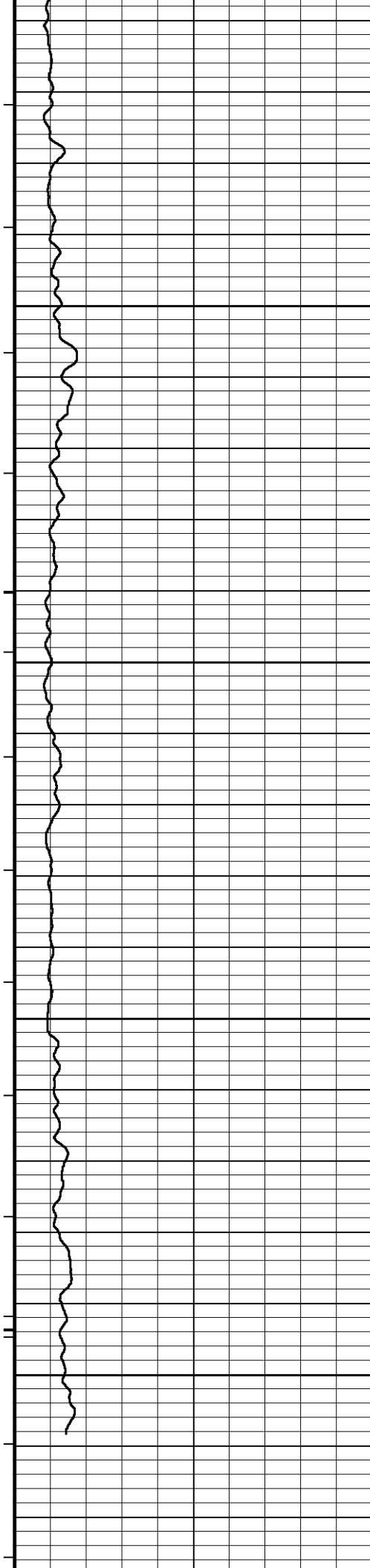


RTAS

R85S

R60S

R40S →



122°

9500

123°

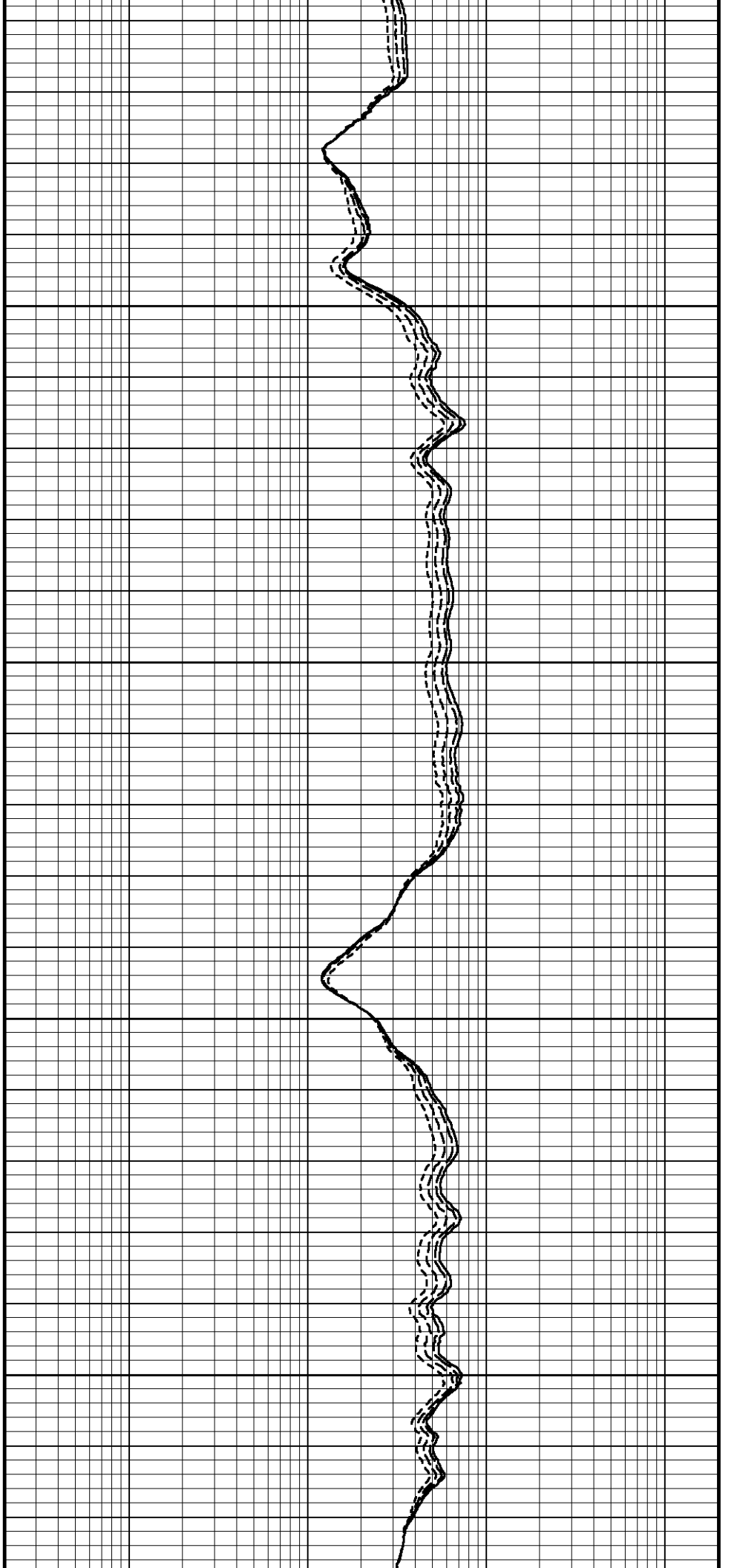
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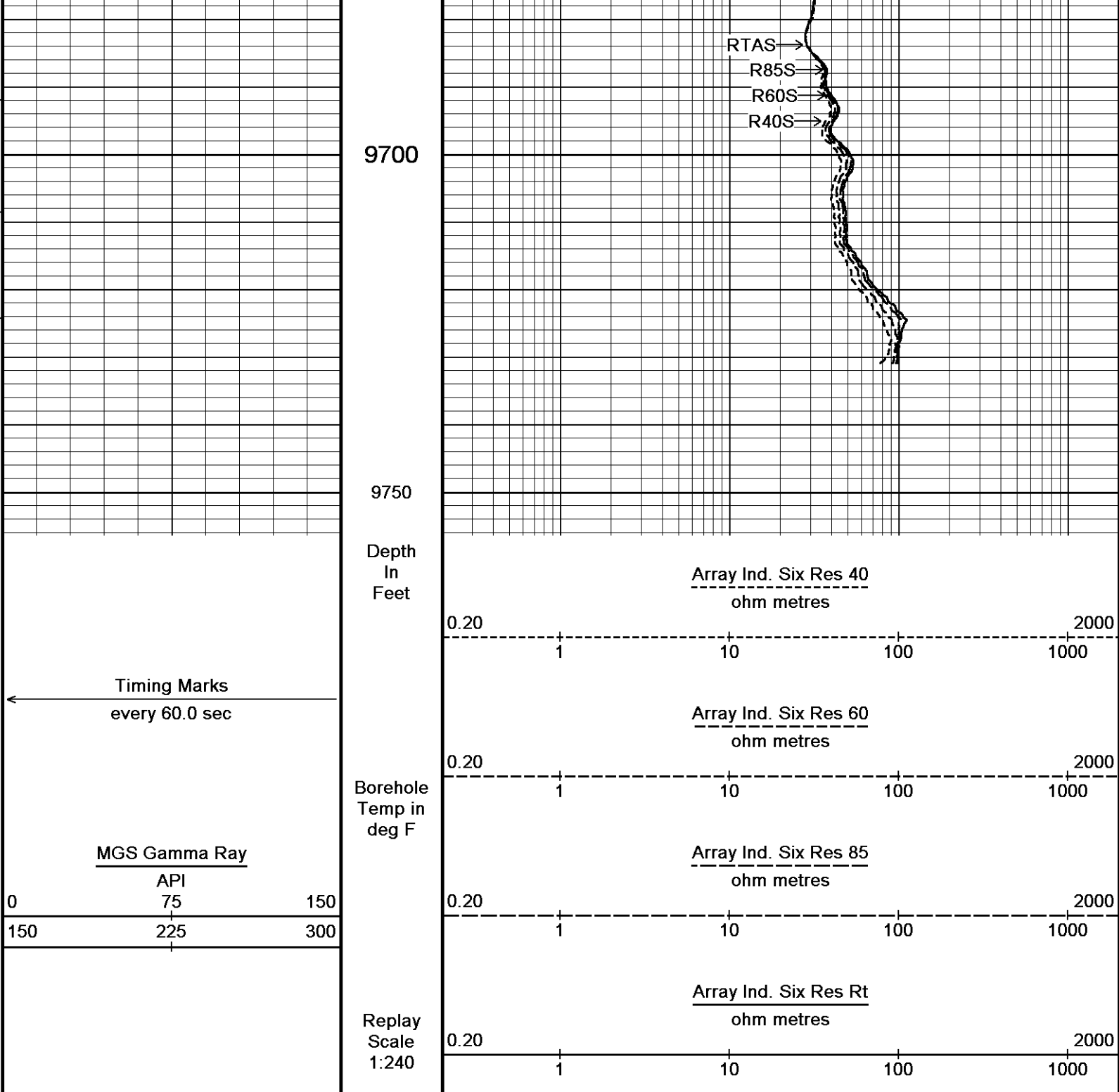
125°

9600

127°

9650





Depth Based Data - Maximum Sampling Increment 10.0cm Plotted on 19-AUG-2012 04:23
Filename: C:\Program Files\Weatherford\WLS 13.01\data\...MARKS 1-24H MMS 167 DEPTH RTAP.dta Recorded on 19-AUG-2012 01:17
System Versions: Processed with 12.02.4401 Plotted with 12.02.4401

↑ 5 INCH MAIN LOG DSC ↑

BEFORE SURVEY CALIBRATION		
C:\Program Files\Weatherford\WLS 13.01\data\sandridge marks 1-24h\MARKS 1-24H MMS 167 DEPTH RTAP.dta		
Down-hole Tension Calibration All 000		
		Field Calibration on 24-FEB-2009 00:00
Reading No	Measured	Calibrated (lbs)
1	14953.75	0.00
2	17846.38	1500.00
General Constants All 000		Last Edited on 16-AUG-2012 11:00
General Parameters		

Mud Resistivity	1.200	ohm-metres
Mud Resistivity Temperature	96.000	degrees F
Water Level	0.000	feet
Density/Neutron Processing	Wet Hole	

Hole/Annular Volume and Differential Caliper Parameters		
HVOL Method	Single Caliper	
HVOL Caliper 1	Density Caliper	
HVOL Caliper 2	N/A	
Annular Volume Diameter	4.500	inches
Caliper for Differential Caliper	Density Caliper	

Rwa Parameters	
Porosity used	Limestone Density Por.
Resistivity used	Array Ind. Six Res Rt
RWA Constant A	0.610
RWA Constant M	2.150

Down-hole Tension Calibration SMS 0

Field Calibration on 29-MAR-2011 00:00

Reading No	Measured	Calibrated (lbs)
1	15152.07	0.00
2	19175.97	2000.00

Strain Gauge Constants MMS-E.B 167

Last Edited on 03-AUG-2012 11:54

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
Pressure psia	Inc.	Dec.
0.0	0.000	0.000
2000.0	0.000	0.000
4000.0	0.000	0.000
6000.0	0.000	0.000
8000.0	0.000	0.000
10000.0	0.000	0.000

Gamma Calibration MGS-C.J 135

Field Calibration on 17-AUG-2012 22:28

	Measured	Calibrated (API)
Background	42	14
Calibrator (Gross)	1203	403
Calibrator (Net)	1160	389

Gamma Constants MGS-C.J 135

Last Edited on 22-JUN-2012 20:19

Gamma Calibrator Number	389
Mud Density	1.13
Caliper Source for Processing	Density Caliper
Tool Position	Eccentred
Concentration of KCl	0.00

High Resolution Temperature Constants MGS-C.J 135

Last Edited on

Pre-filter Length	11
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Neutron Calibration MDN-B.J 390

Base Calibration on 10-AUG-2012 02:10

Field Check on 16-AUG-2012 11:36

Base Calibration					
	Measured		Calibrated (cps)		
	Near	Far	Near	Far	
	2974	91	3714	110	
Ratio	32.653		33.764		
Field Calibrator at Base					
			Calibrated (cps)		
			1236	1843	
Ratio			0.671		

Field Check	Calibrated (cps)	
	1290	1898
Ratio	0.680	

Neutron Constants MDN-B.J 390			Last Edited on 10-AUG-2012 02:05
Neutron Source Id	P31112B		
Neutron Jig Number	5917NC		
Epithermal Neutron	No		
Caliper Source for Processing	Density Caliper		
Stand-off	0.00	inches	
Mud Density	1.03	gm/cc	
Limestone Sigma	7.10	cu	
Sandstone Sigma	4.26	cu	
Dolomite Sigma	4.70	cu	
Formation Pressure Source	None		
Formation Pressure	N/A	kpsi	
Temperature Source	Constant Value		
Temperature	20.00	degrees F	
Mud Salinity	1.00	kppm	
Formation Fluid Salinity Source	None		
Formation Fluid Salinity	N/A	kppm	
Barite Mud Correction	Not Applied		
Salinity Correction	Applied		

Imager Pad Check MIE-A.A 113			Field Check on 16-AUG-2008 11:45
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 113			Last Edited on 19-AUG-2012 01:29
Sonde Configuration	Imager Mode	degrees	
Arm-Pad Kit	Normal Pads (12.25 in)		
Centre Pad 1 Rotational Offset	0.00		
Image/Borehole Ovality Reference	Relative Bearing	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		

Navigation Constants MIE-A.A 113			Last Edited on 29-DEC-2009 15:28
Magnetic Declination	6.00	degrees	East

Magnetometer Parameters MIE-A.A 113			
Date Of Last Magnetometer Calibration	01-JAN-1998		
	X Magnetometer	Y Magnetometer	Z Magnetometer
Slope	-1.000000	-1.016573	-1.003898
Offset	0.006568	-0.015949	0.006438

Magnetometer Constants MIE-A.A 113			Last Edited on
Magnetometer Calibrator Number	000		

Accelerometer Parameters MIE-A.A 113			
Date Of Last Accelerometer Calibration	01-JAN-1998		
	X Accelerometer	Y Accelerometer	Z Accelerometer
Slope	-1.105490	-1.103970	-1.107420
Offset	0.000458	0.006135	0.003353

Accelerometer Constants MIE-A.A 113			Last Edited on 11-JUN-2009 17:18
Accelerometer Calibrator Number	000		

Accelerometer Temperature Characterisation

X Accelerometer

Serial Number	282			
Calibration Date	18-Jul-2007			
	B0	B1	B2	B3
Bias(g)	0.00000e+000	3.41234e-005	-1.69705e-008	1.28660e-010
	SF0	SF1	SF2	SF3
Scale Factor(mA/g)	3.00000e+000	2.70372e-004	8.31146e-007	-1.22715e-009

Y Accelerometer

Serial Number	284			
Calibration Date	18-Jul-2007			
	B0	B1	B2	B3
Bias(g)	0.00000e+000	1.41306e-005	-2.62559e-009	9.20272e-011
	SF0	SF1	SF2	SF3
Scale Factor(mA/g)	3.00000e+000	2.83655e-004	6.88154e-007	-5.98912e-010

Z Accelerometer

Serial Number	287			
Calibration Date	20-Jul-2007			
	B0	B1	B2	B3
Bias(g)	0.00000e+000	2.30753e-005	-5.40650e-010	3.42223e-011
	SF0	SF1	SF2	SF3
Scale Factor(mA/g)	3.00000e+000	2.66160e-004	7.47858e-007	-1.03559e-009

Caliper Calibration MIE-A.A 113

Base Calibration on 23-JUN-2008 12:29

Field Calibration on

Base Calibration

Reading No	Pads 1-5 Meas.	Pads 3-7 Meas.	Calibrator Size (in)
1	24856	25276	5.97
2	35545	35312	7.99
3	44370	44687	9.86
4	55326	56381	11.93
5	0	0	0.00

Reading No	Pad 2 Meas.	Pad 4 Meas.	Pad 6 Meas.	Pad 8 Meas.	Calibrator Size (in)
1	23517	25136	25351	23970	5.97
2	32111	33147	34289	33287	7.99
3	39601	41110	42395	41619	9.86
4	49214	50836	52775	51339	11.93
5	0	0	0	0	0.00

Field Calibration

Measured	Measured	Actual		
Pads 1-5 Caliper(in)	Pads 3-7 Caliper(in)	Caliper(in)		
0.00	0.00	0.00		
Measured	Measured	Measured	Measured	Actual
Pad 2 Caliper(in)	Pad 4 Caliper(in)	Pad 6 Caliper(in)	Pad 8 Caliper(in)	Caliper(in)
0.00	0.00	0.00	0.00	0.00

Caliper Constants MIE-A.A 113

Last Edited on 19-AUG-2012 01:29

Caliper Difference for BRKT 0.120 inches

High Resolution Temperature Calibration MAI-B.J 389

Field Calibration on 19-OCT-2011 09:44

	Measured	Calibrated(Deg F)
Lower	10.00	50.00
Upper	100.00	212.00

High Resolution Temperature Constants MAI-B.J 389

Last Edited on

Pre-filter Length 11

Induction Calibration MAI-B.J 389

Base Calibration on 10-AUG-2012 01:34

Field Check on 17-AUG-2012 22:27

Base Calibration

Test Loop Calibration		Measured		Calibrated (mmho/m)	
Channel	Low	High	Low	High	
1	16.7	465.5	9.3	966.2	
2	6.4	384.0	7.6	821.4	
3	3.1	258.9	5.2	566.0	
4	1.8	133.7	2.6	279.2	

Array Temperature	78.1		Deg F	
Channel	Base Check (mmho/m)		Field Check (mmho/m)	
	Low	High	Low	High
1	0.0	0.0	14.1	3896.4
2	0.0	0.0	29.7	3508.2
3	0.0	0.0	29.6	3049.1
4	0.0	0.0	19.9	2063.0
Deep	0.0	0.0	19.2	2012.9
Medium	0.0	0.0	42.8	4003.7
Shallow	0.0	0.0	42.6	5151.3
Array Temperature	0.0		68.4	Deg F

Induction Constants MAI-B.J 389

Last Edited on 19-AUG-2012 01:32

Induction Model	RtAP-WBM		
Caliper for Borehole Corr.	Density Caliper		
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	

Caliper Calibration MPD-C.J 393

Base Calibration on 10-AUG-2012 02:02

Field Calibration on 10-AUG-2012 02:04

Base Calibration

Reading No	Measured	Calibrator Size (in)
1	18800	4.01
2	26177	5.96
3	34564	7.98
4	42768	9.86
5	51949	11.88
6	N/A	N/A

Field Calibration

Measured Caliper (in)	Actual Caliper (in)
5.94	5.96

Photo Density Calibration MPD-C.J 393

Base Calibration on 10-AUG-2012 01:56

Field Check on 16-AUG-2012 11:35

Density Calibration		Measured		Calibrated (sdu)	
Base Calibration		Near	Far	Near	Far
Reference 1		54678	26470	59869	31110
Reference 2		23479	2726	24557	2522
Field Check at Base					
		1229.7	1344.0		
Field Check					
		1225.0	1338.6		

PE Calibration				
Base Calibration		Measured		Calibrated
	WS	WH	Ratio	Ratio
Background		227	1110	
Reference 1		22306	54489	0.414
Reference 2		6605	23344	0.287
Field Check at Base				
		227.5	1110.5	
Field Check				
		224.8	1104.5	

Density Constants MPD-C.J 393

Last Edited on 14-AUG-2012 10:35

Density Source Id	p21137b	
Nylon Calibrator Number	633	
Aluminium Calibrator Number	633	
Density Shoe Profile	4 inch	
Caliper Source for Processing	Density Caliper	
PE Correction to Density	Not Applied	
Mud Density	1.05	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	-0.03	gm/cc
CRCT	0.00	gm/cc
Density Z/A Correction	Hybrid	
Matrix Density (gm/cc)	Depth (ft)	
2.71	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	

DOWNHOLE EQUIPMENT

C:\Program Files\Weatherford\WLS 13.01\data\sandridge marks 1-24h\MARKS 1-24H MMS 167 DEPTH RTAP.dta

Shuttle Running Tool 3.5")
SRT-A.A 70 LG: 6.62 ft WT: 37.5 lb OD: 2.52 in

SKJ-E.B Compact Knuckle Joint
SKJ-E.B 480 LG: 2.17 ft WT: 24.3 lb OD: 2.24 in

Spacer - Empty Battery
MLK-A 2 LG: 14.23 ft WT: 30.9 lb OD: 2.24 in

Spacer - Empty Battery
MLK-A 250 LG: 6.05 ft WT: 30.9 lb OD: 2.24 in

Spacer - Empty Battery
MLK-A 2 LG: 14.23 ft WT: 30.9 lb OD: 2.24 in



MLK-A.3 LG: 14.23 ft WT: 30.9 lb OD: 2.24 in

MBS-G.A 200v Compact Battery Sub
MBS-G.A 115 LG: 17.06 ft WT: 123.5 lb OD: 2.24 in

Compact Memory Sub E.B
MMS-E.B 167 LG: 5.20 ft WT: 37.5 lb OD: 2.24 in

Compact Tool Isolator sub.
MTI-B.A 67 LG: 1.54 ft WT: 13.2 lb OD: 2.24 in

Compact Short Gamma
MGS-C.J 135 LG: 3.41 ft WT: 24.3 lb OD: 2.24 in

Compact Collar Locator
MCL-B.J 60 LG: 3.17 ft WT: 26.5 lb OD: 2.24 in

SKJ-D.A Compact Knuckle Joint
SKJ-D.A 167 LG: 2.17 ft WT: 24.3 lb OD: 2.24 in

SHA-H Compact Swivel Head Adaptor
SHA-H 167 LG: 2.30 ft WT: 22.0 lb OD: 2.24 in

Compact Neutron
MDN-B.J 390 LG: 5.04 ft WT: 50.7 lb OD: 2.24 in

MIS-D.B Compact Inline Bowspring sub
MIS-D.B 607 LG: 5.70 ft WT: 33.1 lb OD: 2.24 in

Compact Density/Caliper
MPD-C.J 393 LG: 9.59 ft WT: 90.4 lb OD: 2.24 in

SHA-H Compact Swivel Head Adaptor
SHA-H 185 LG: 2.30 ft WT: 22.0 lb OD: 2.24 in

SKJ-E.B Compact Knuckle Joint
SKJ-E.B 472 LG: 2.17 ft WT: 24.3 lb OD: 2.24 in

MIS-D.B Compact Inline Bowspring sub
MIS-D.B 603 LG: 5.70 ft WT: 33.1 lb OD: 2.24 in

Compact MMI Memory Section
MIM-A.A 157 LG: 4.65 ft WT: 26.5 lb OD: 2.24 in

Compact MMI Electrode Section
MIE-A.A 113 LG: 13.96 ft WT: 99.2 lb OD: 4.09 in

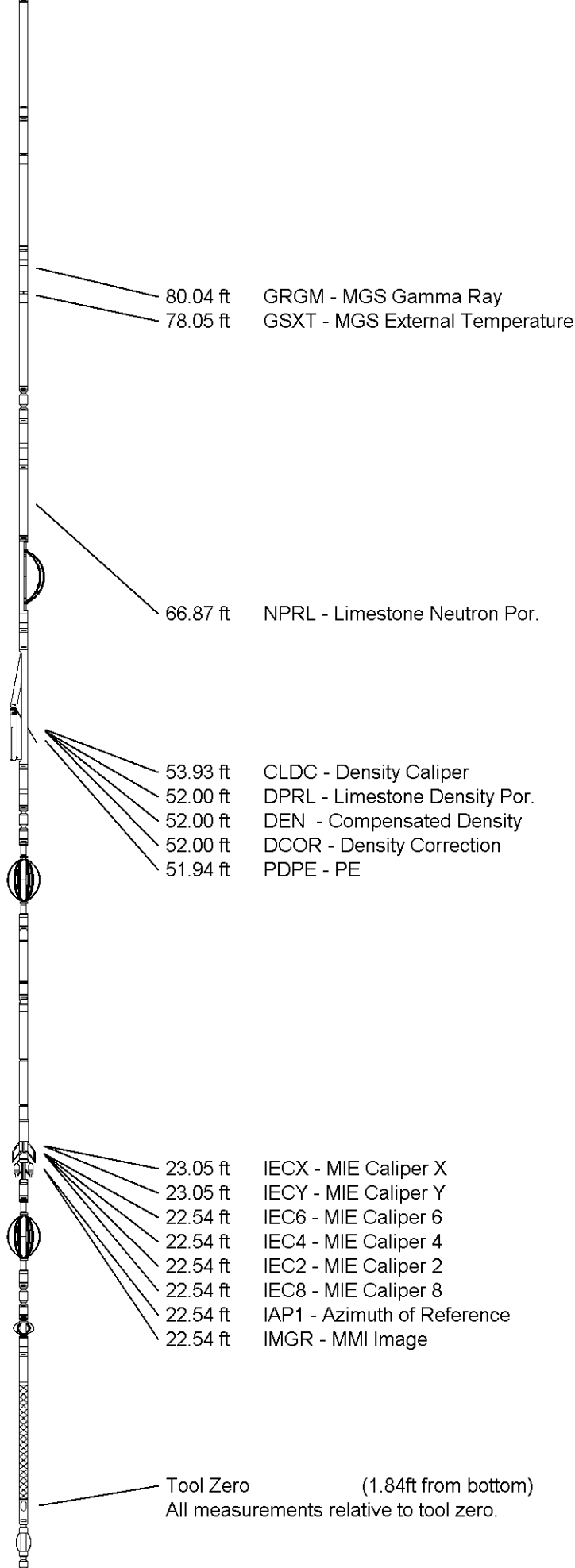
MIS-D.B Compact Inline Bowspring sub
MIS-D.B 593 LG: 5.70 ft WT: 33.1 lb OD: 2.24 in

SKJ-E.B Compact Knuckle Joint
SKJ-E.B 478 LG: 2.17 ft WT: 24.3 lb OD: 2.24 in

MIS-E.B Compact Inline Standoff sub
MIS-E.B 573 LG: 2.14 ft WT: 15.4 lb OD: 2.24 in

Compact Induction
MAI-B.J 389 LG: 12.52 ft WT: 48.5 lb OD: 2.24 in

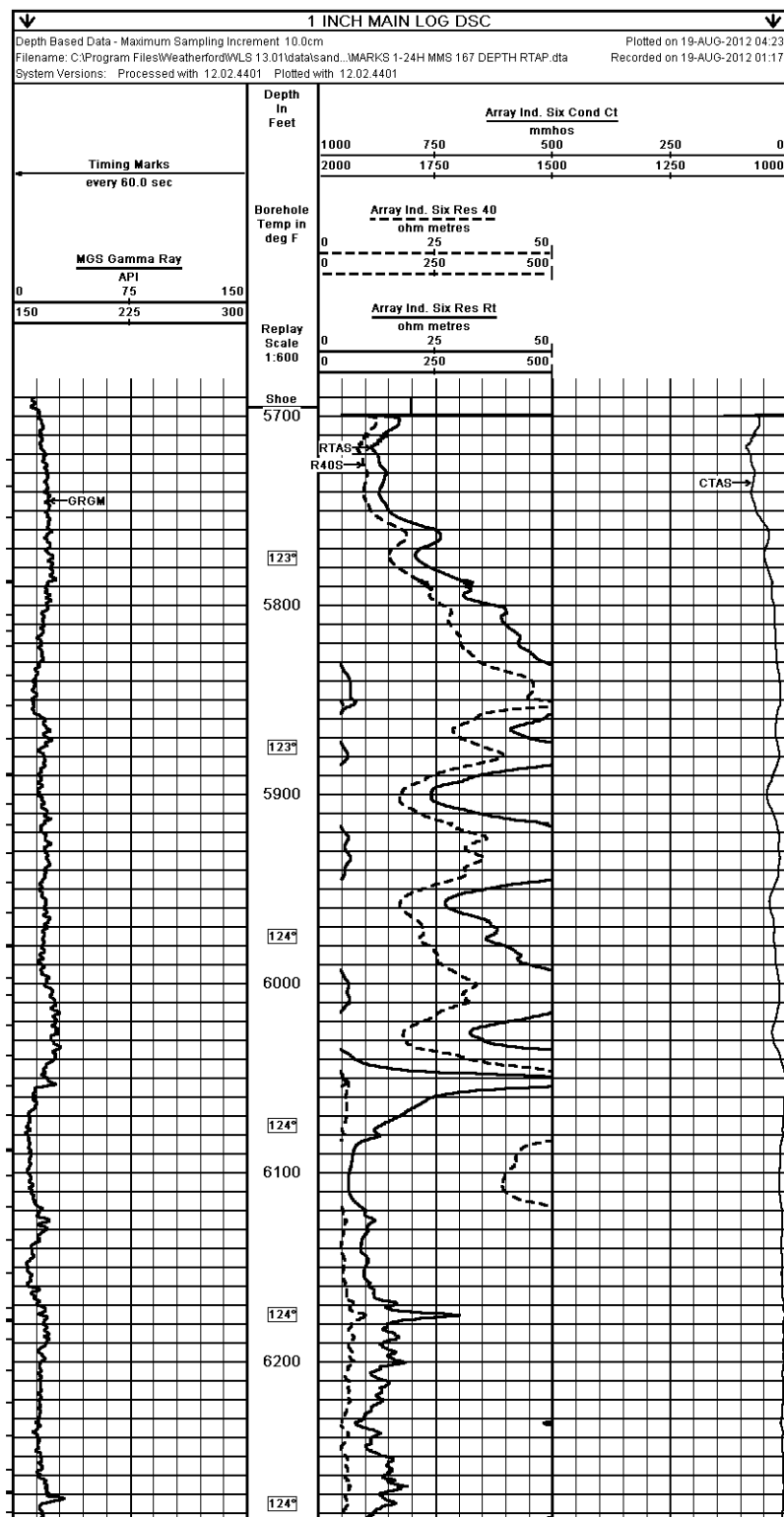
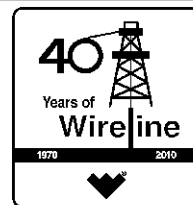
Total Length: 149.76 ft Weight: 925.9 lb

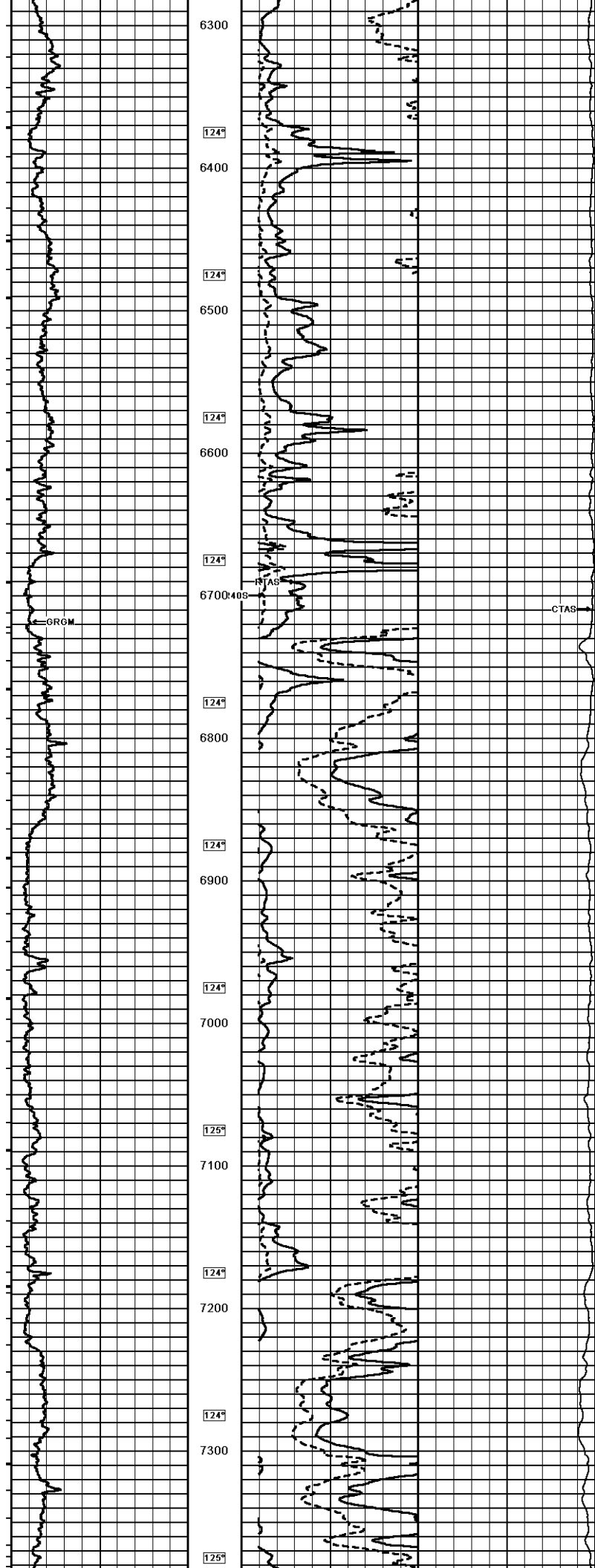


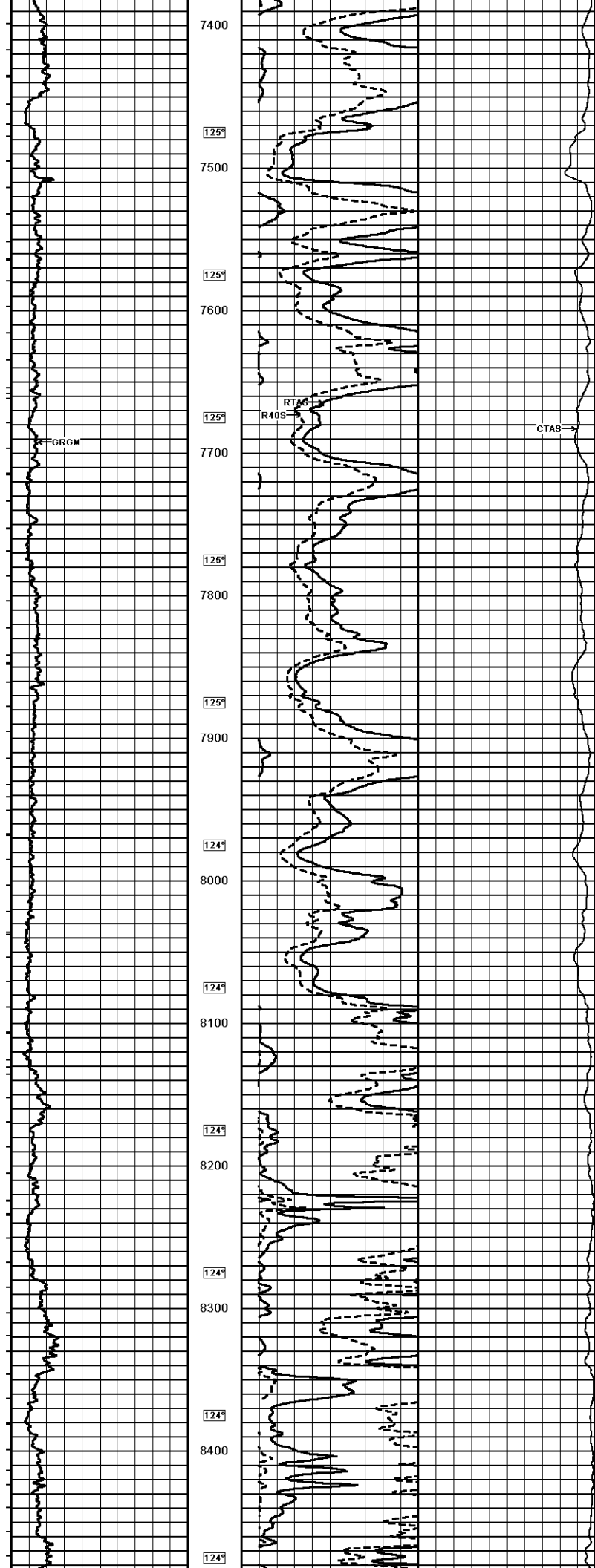
Elevation Kelly Bushing	2638.50	feet	First Reading	9735.00	feet
Elevation Drill Floor	2637.50	feet	Depth Driller	9803.00	feet
Elevation Ground Level	2618.00	feet	Depth Logger	9803.00	feet

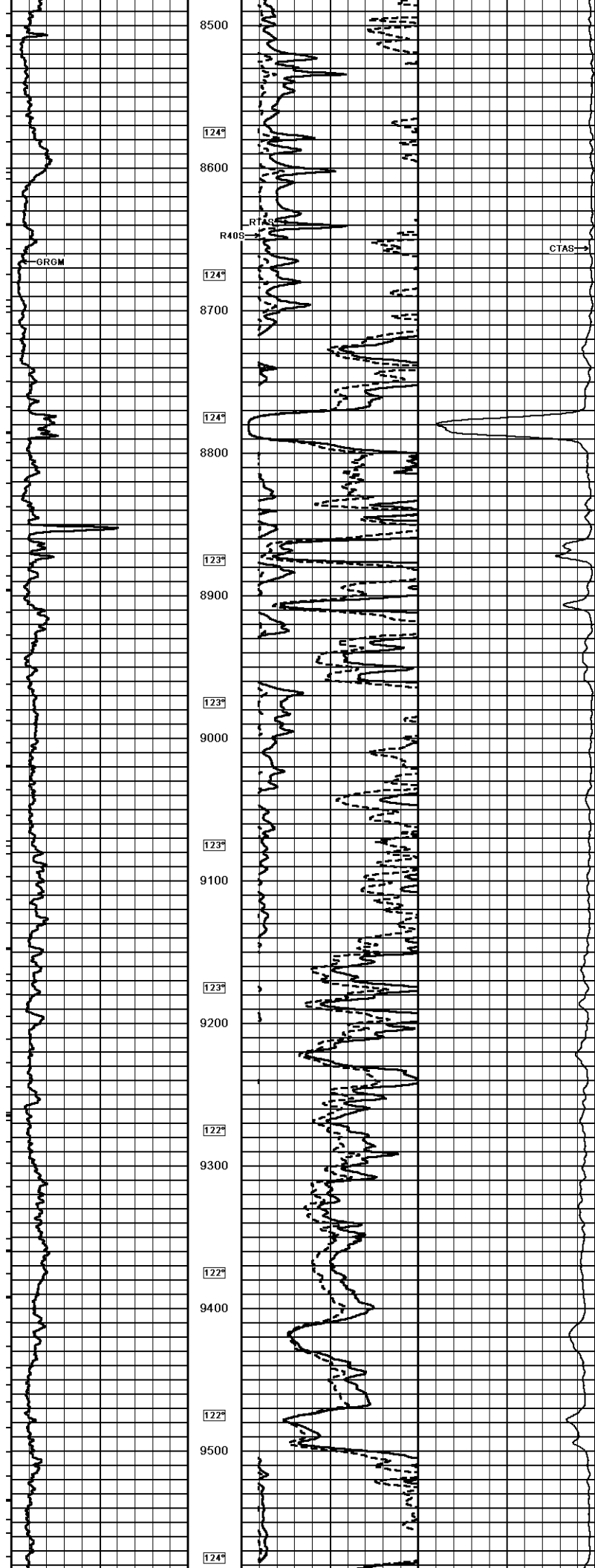


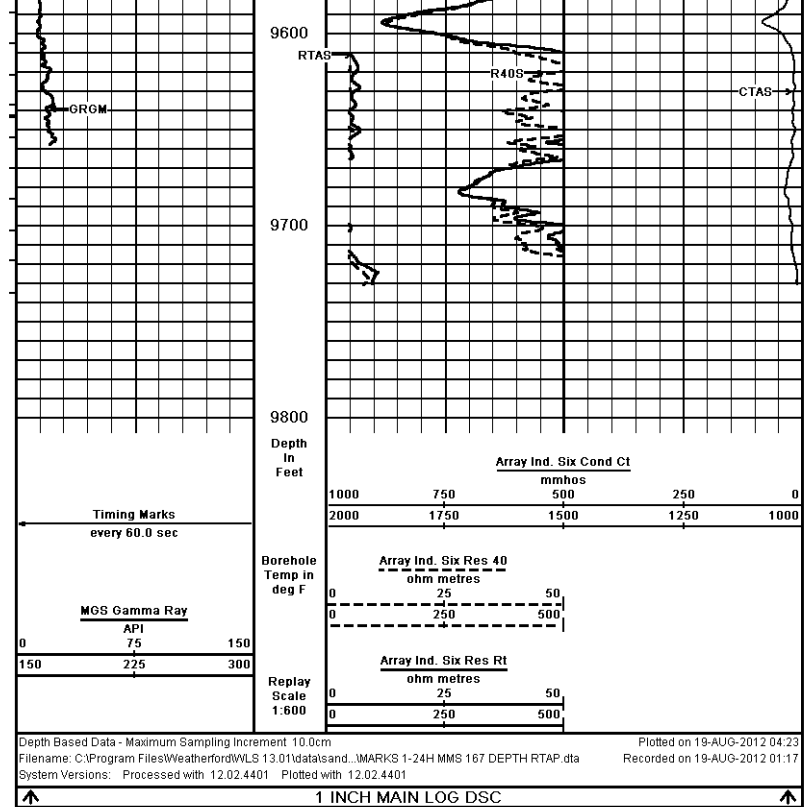
CML MESSENGER SHUTTLE ARRAY INDUCTION











COMPANY			SANDRIDGE ENERGY		
WELL			MARKS 1-24H		
FIELD			MINNEOLA		
PROVINCE/COUNTY			FORD		
COUNTRY/STATE			U.S.A. / OKLAHOMA		
Elevation Kelly Bushing	2638.50	feet	First Reading	9735.00	feet
Elevation Drill Floor	2637.50	feet	Depth Driller	9803.00	feet
Elevation Ground Level	2618.00	feet	Depth Logger	9803.00	feet
 Weatherford			CML MESSENGER SHUTTLE		
			ARRAY INDUCTION		
					