

**Weatherford****CML MESSENGER SHUTTLE
ARRAY INDUCTION**

COMPANY

Sandridge Energy

WELL

Stagecoach 2925 1-14H

FIELD

Mineloa

PROVINCE/COUNTY

Ford

COUNTRY/STATE

U.S.A. / Kansas

LOCATION

220' FSL & 355' FEL

SEC

TWP
26
23SRGE
31WOther Services
MDNMMPD
CMIAPI Number 15-057-20857
Permit Number DC12495

Permanent Datum G.L., Elevation 2619 feet

Log Measured From KB

Drilling Measured From K.B. @ 20 Feet

Date 22-DEC-2012

Run Number One

Service Order 3539522

Depth Driller 9780.00

Depth Logger 9780.00

First Reading 9743.00

Last Reading 5832.00

Casing Driller 5832.00

Casing Logger 5832.00

Bit Size 6.125

Hole Fluid Type WBM

Density / Viscosity 8.80 lb/USg

PH / Fluid Loss 9.50

Sample Source Flowline

Rm @ Measured Temp 0.68 @ 71.0

Rmf @ Measured Temp 0.54 @ 71.0

Rmc @ Measured Temp 0.82 @ 71.0

Source Rmf / Rmc Calc

Rm @ BHT 0.38 @ 128.0

Time Since Circulation 1 hour

Max Recorded Temp 128.00

Equipment / Base 18077

Recorded By Steven Totley

Witnessed By J. Borell

Elevations:
KB 2639.00
DF 2639.00
GL 2619.00**BOREHOLE RECORD**

Last Edited: 22-DEC-2012 08:01

Bit Size
inchesDepth From
feetDepth To
feet

8.750

0.00

5832.00

6.125

5832.00

9780.00

CASING RECORD

Type

Size
inchesDepth From
feetShoe Depth
feetWeight
pounds/ft

inter

7.000

0.00

5832.00

24.00

REMARKS

LOGGED WITH WLS 13.04.8492

LOGGED USING MESSENGER SHUTTLE METHOD OF DEPLOYMENT

TOOLS RAN: SRT-69,,200V MBS-114,MMSE133,MTI-076, MGS-142,MCL-063,SKJ-472,SHA-438,MIS-608, MDN-391, MPD-394,MIS-607, SHA-167, SKJ-479,MISB-595,MIM 228, MIE-209,MISB-337, MAI-170 RAN IN COMBINATION

HARDWARE: MAI: MIS-B 0.5" STANDOFF USED ABOVE MAI, ISA STAND-OFF RAN BELOW MAI

MFE: MIS-B 0.5" STANDOFF USED ABOVE MFE

MDN: MIS-A DOUBLE BOWSPRING USED ABOVE MDN.

MPD: 4INCH PROFILE PLATE USED, MIS-A SINGLE BOWSPRING USED BELOW MPD

2.71 G/CC DENSITY MATRIX USED TO CALCULATE POROSITY

ALL INTERVALS LOGGED AND SCALED PER CUSTOMER'S REQUEST

DRILL PIPE DEPTH DURING DEPLOYMENT: 9644

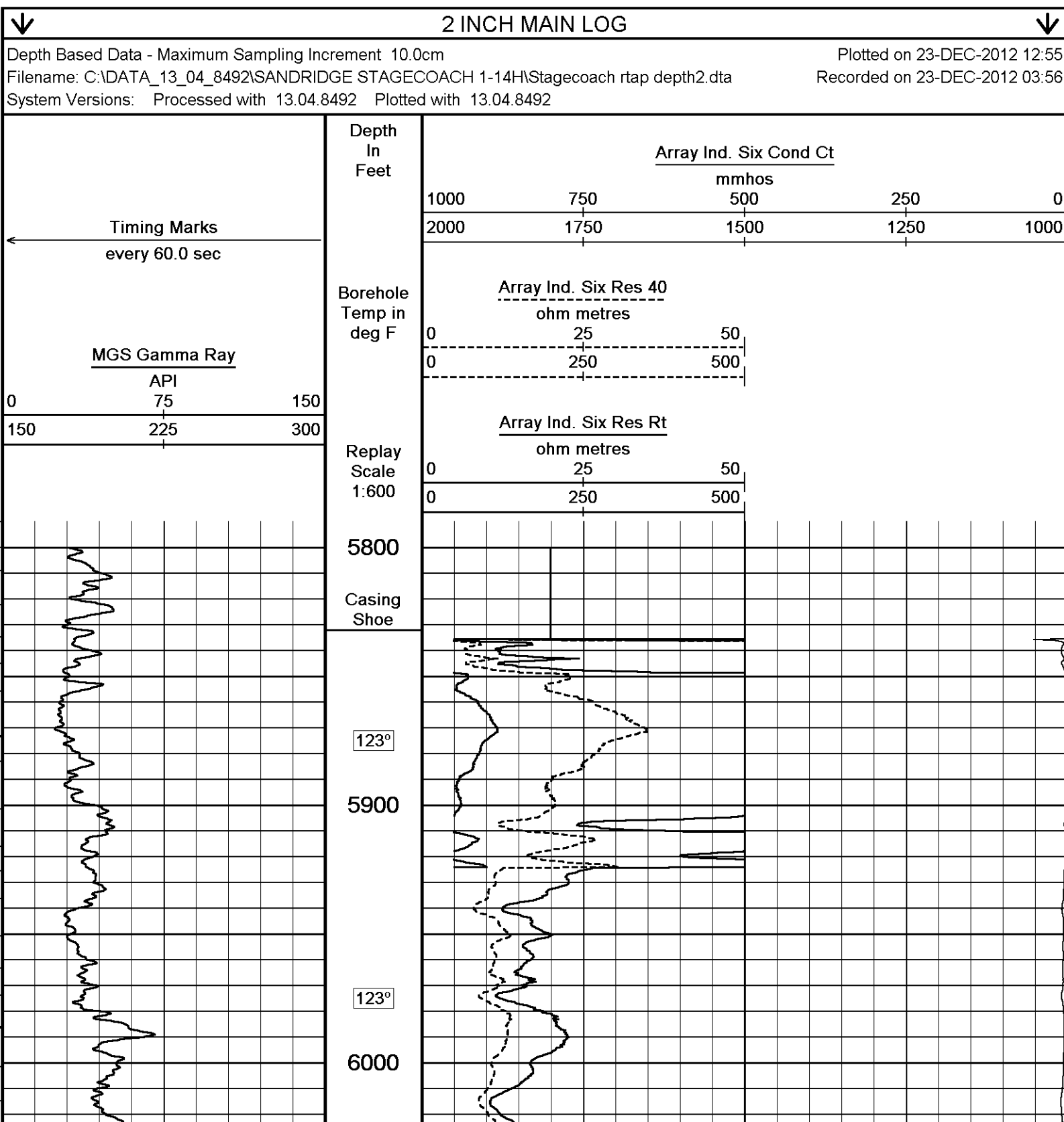
DRILL PIPE DEPTH AFTER DEPLOYMENT: 9944
LOGGING TOOL DEPTH AFTER DEPLOYMENT: 9746

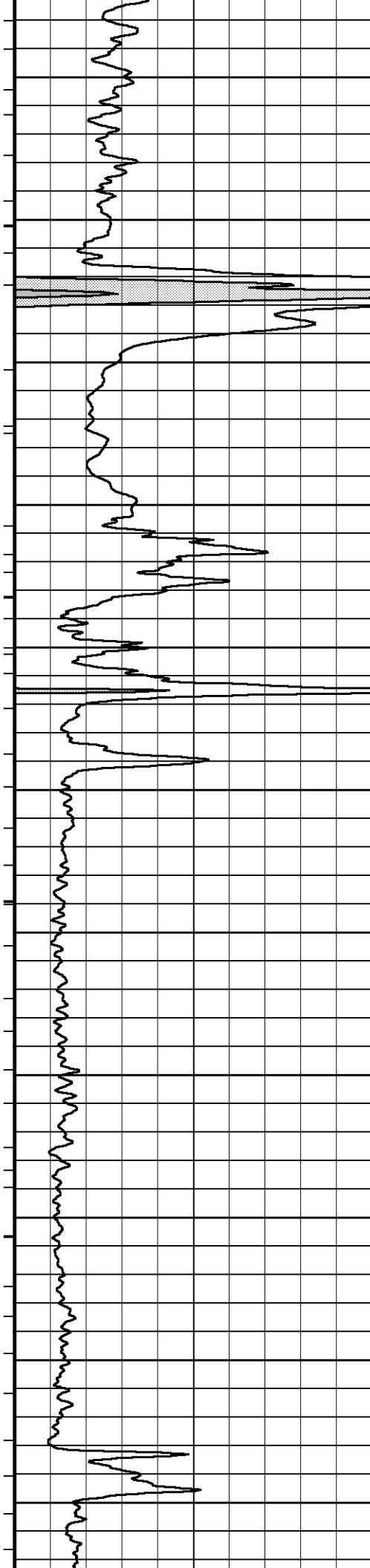
OPERATORS: C. Hawkins and G. Garcia

RIG: Lariat #3

LOG RESPONSES EFFECTED BY HOLE RUGOSITY

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.





123°

6100

123°

6200

124°

6300

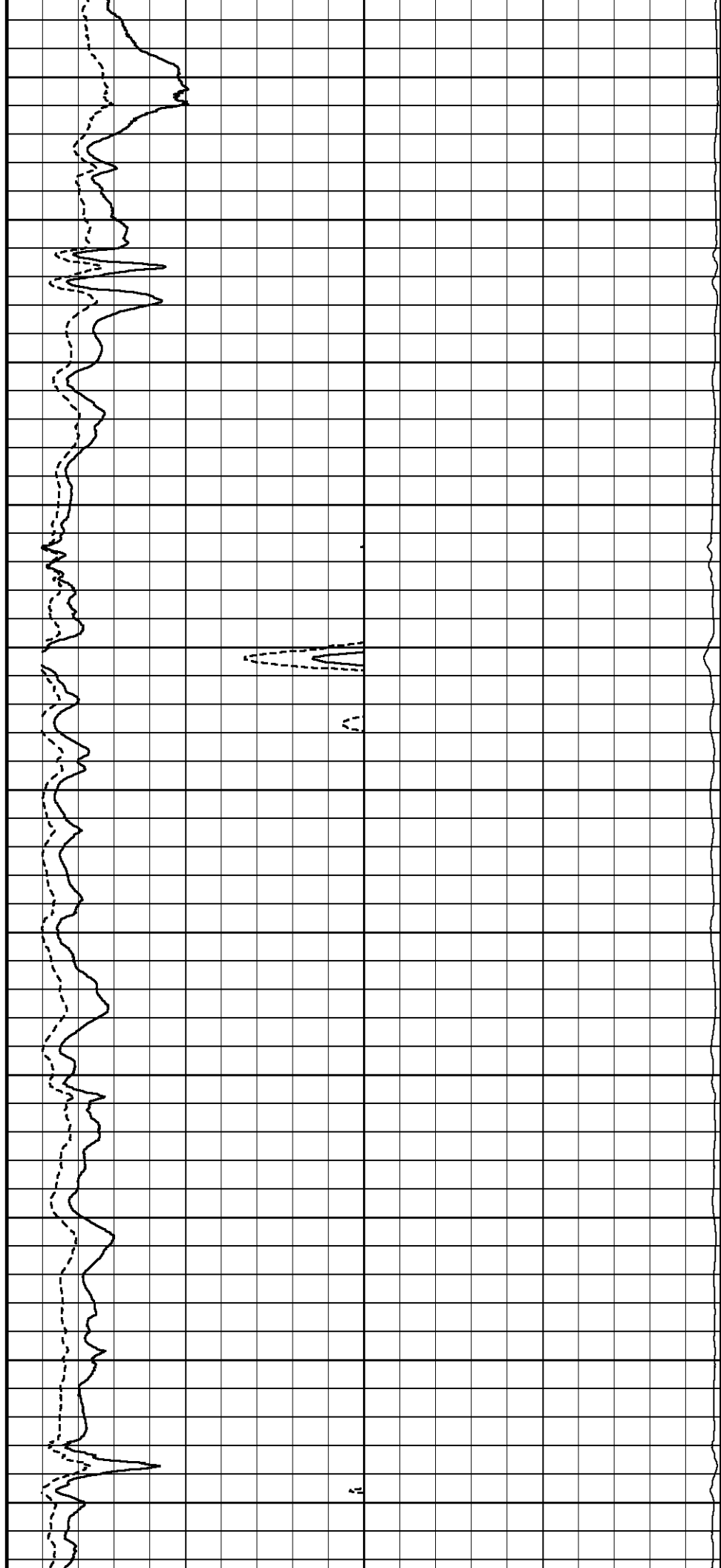
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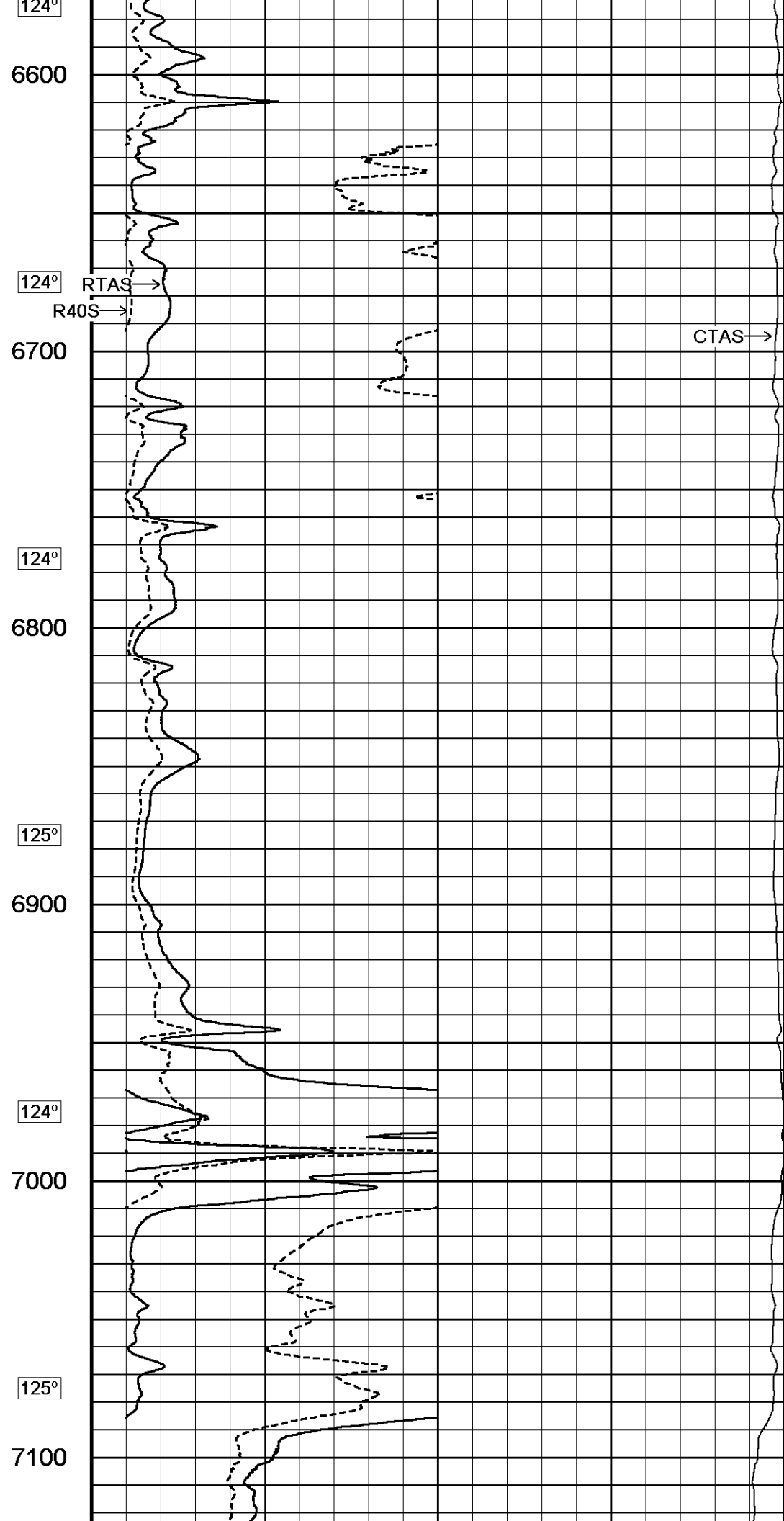
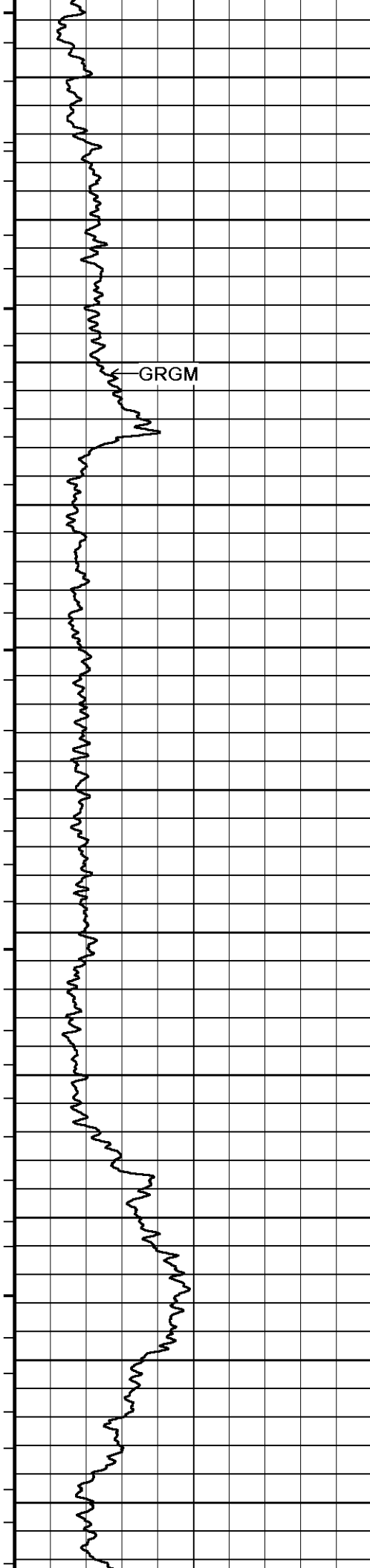
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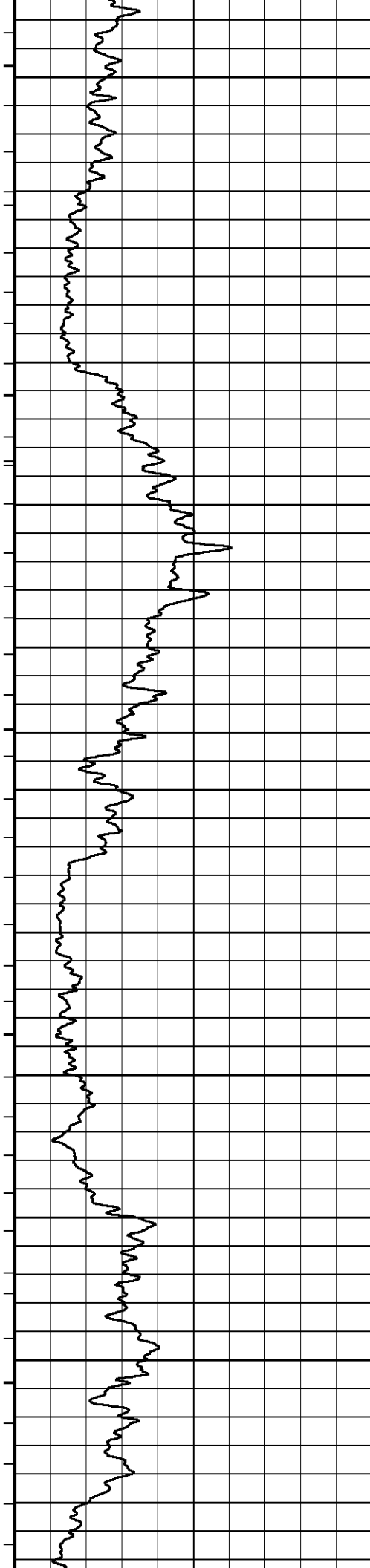
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6500

125°







125°

7200

125°

7300

125°

7400

125°

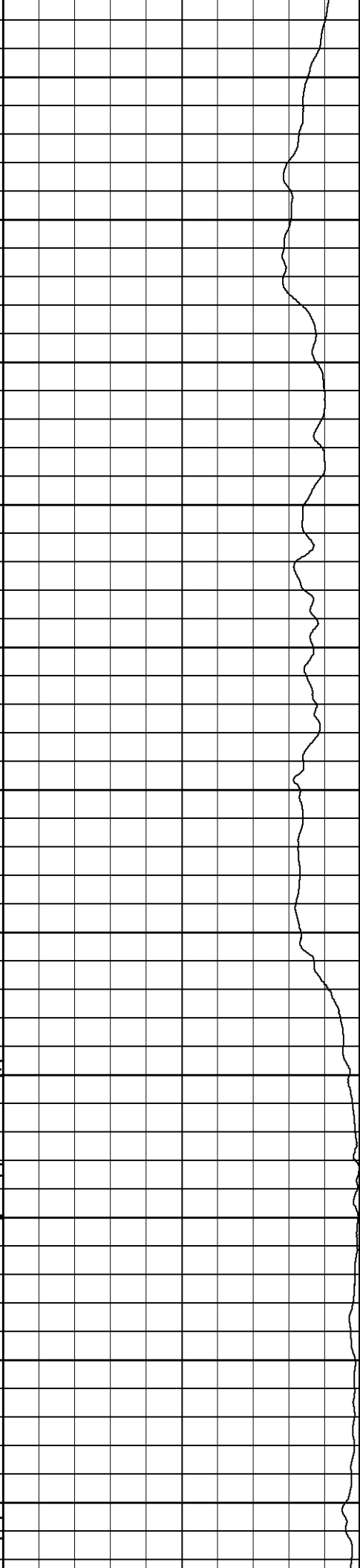
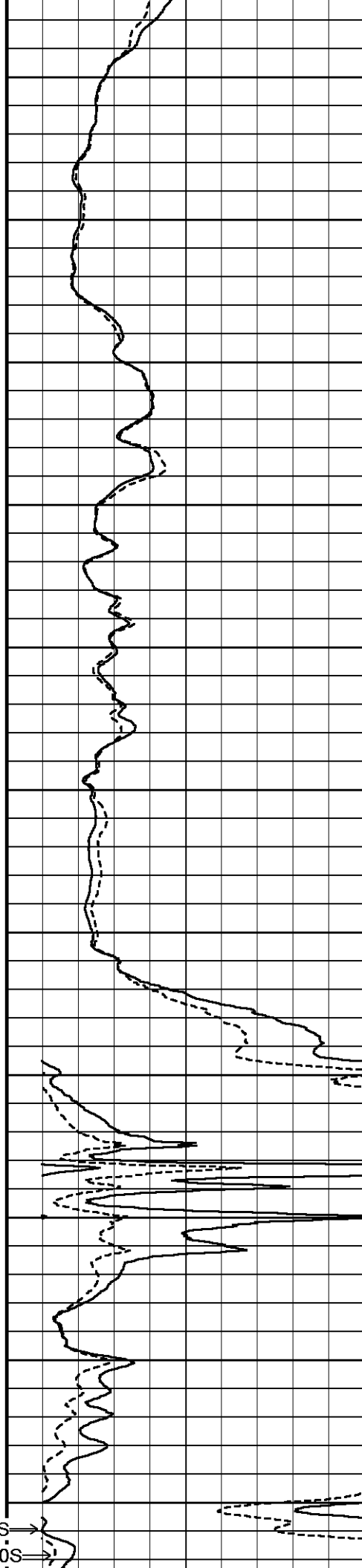
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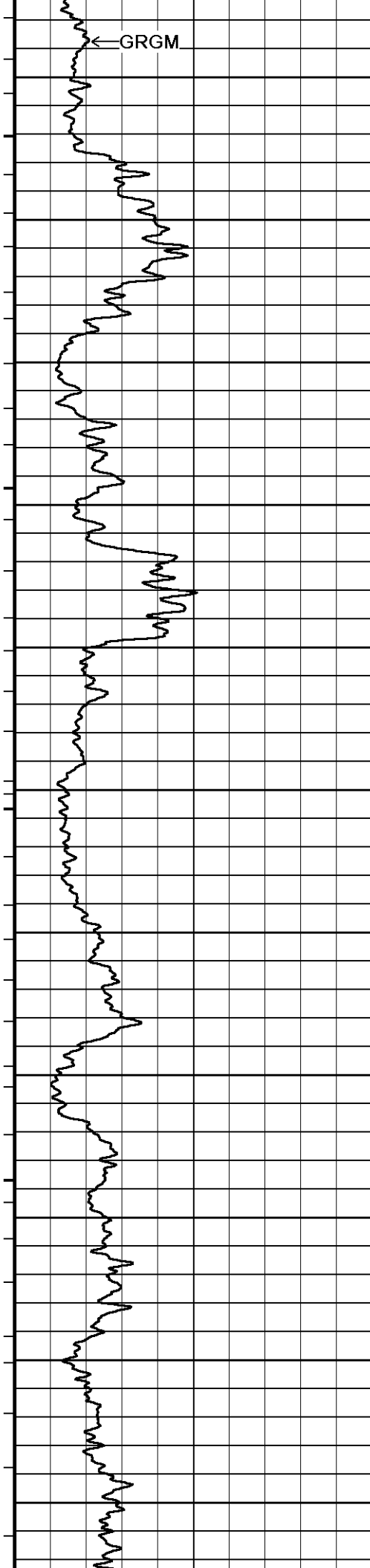
126°

7600

RTAS →

R40S →





126°

7700

126°

7800

126°

7900

127°

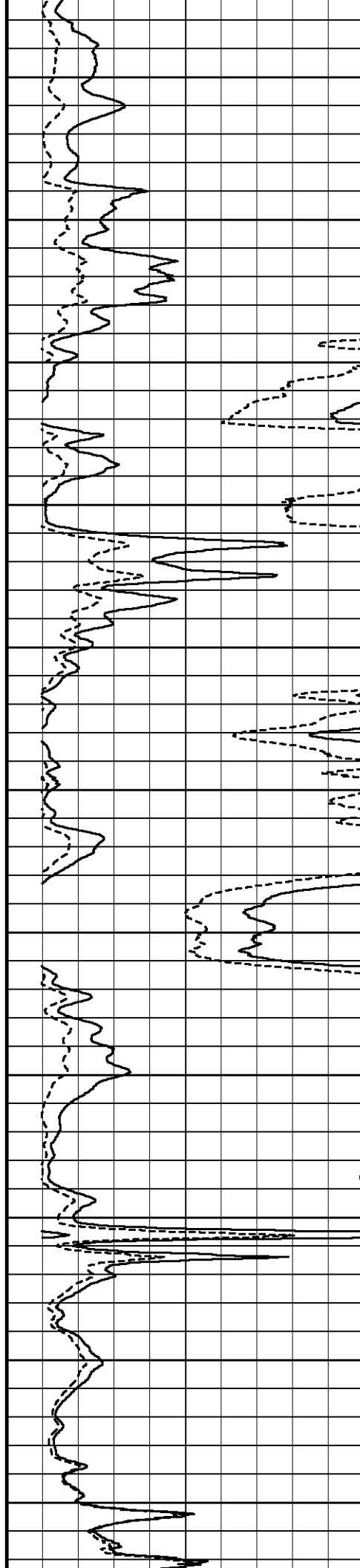
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127°

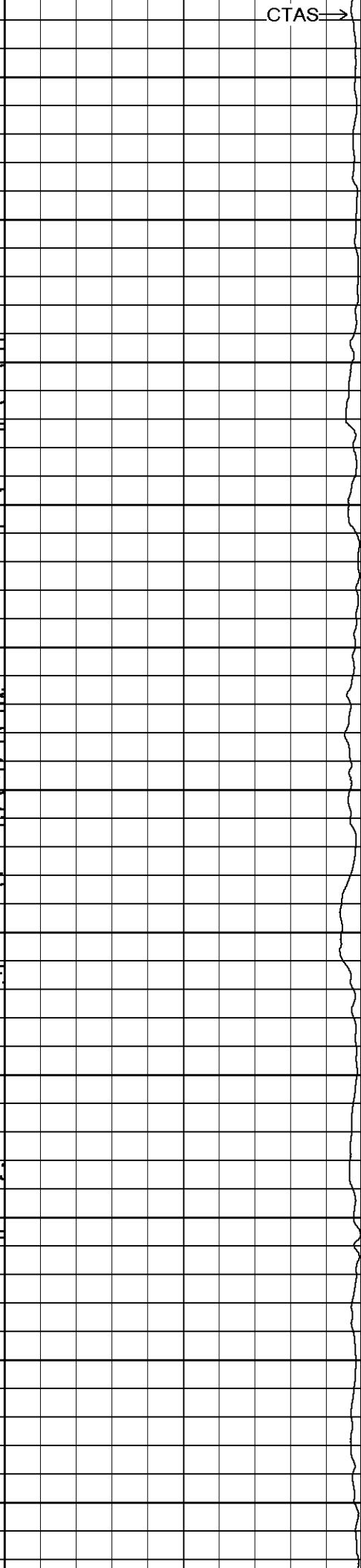
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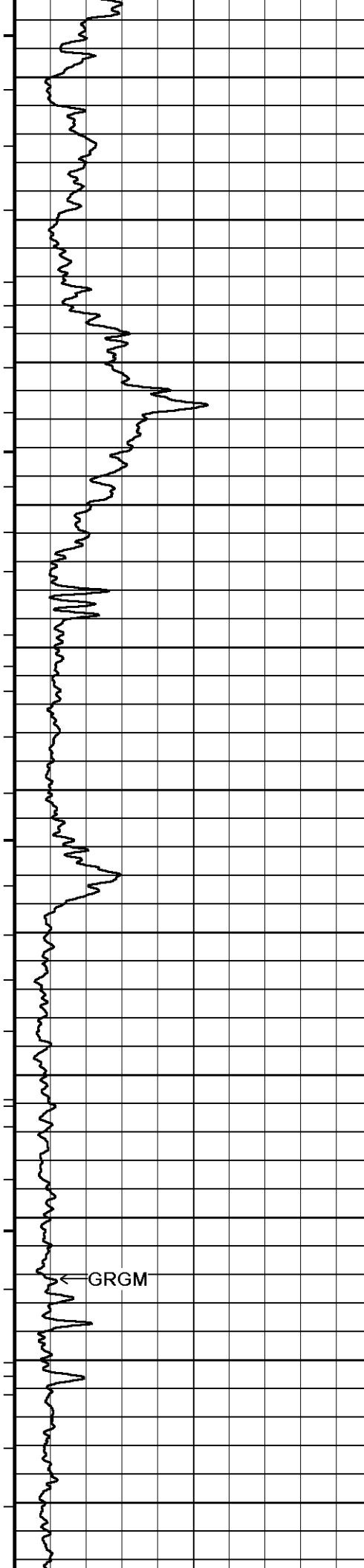
127°

8200



CTAS →





127°

8300

127°

8400

127°

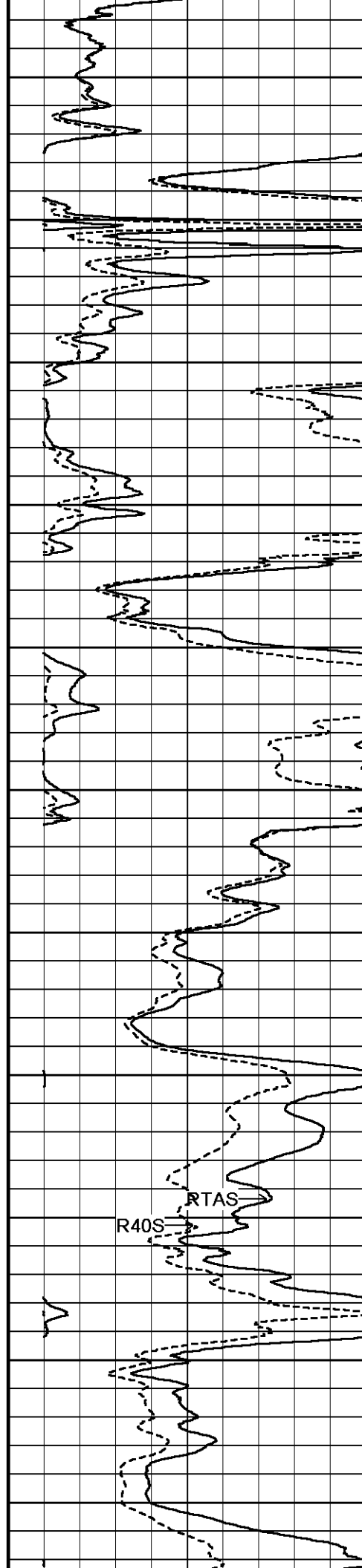
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127°

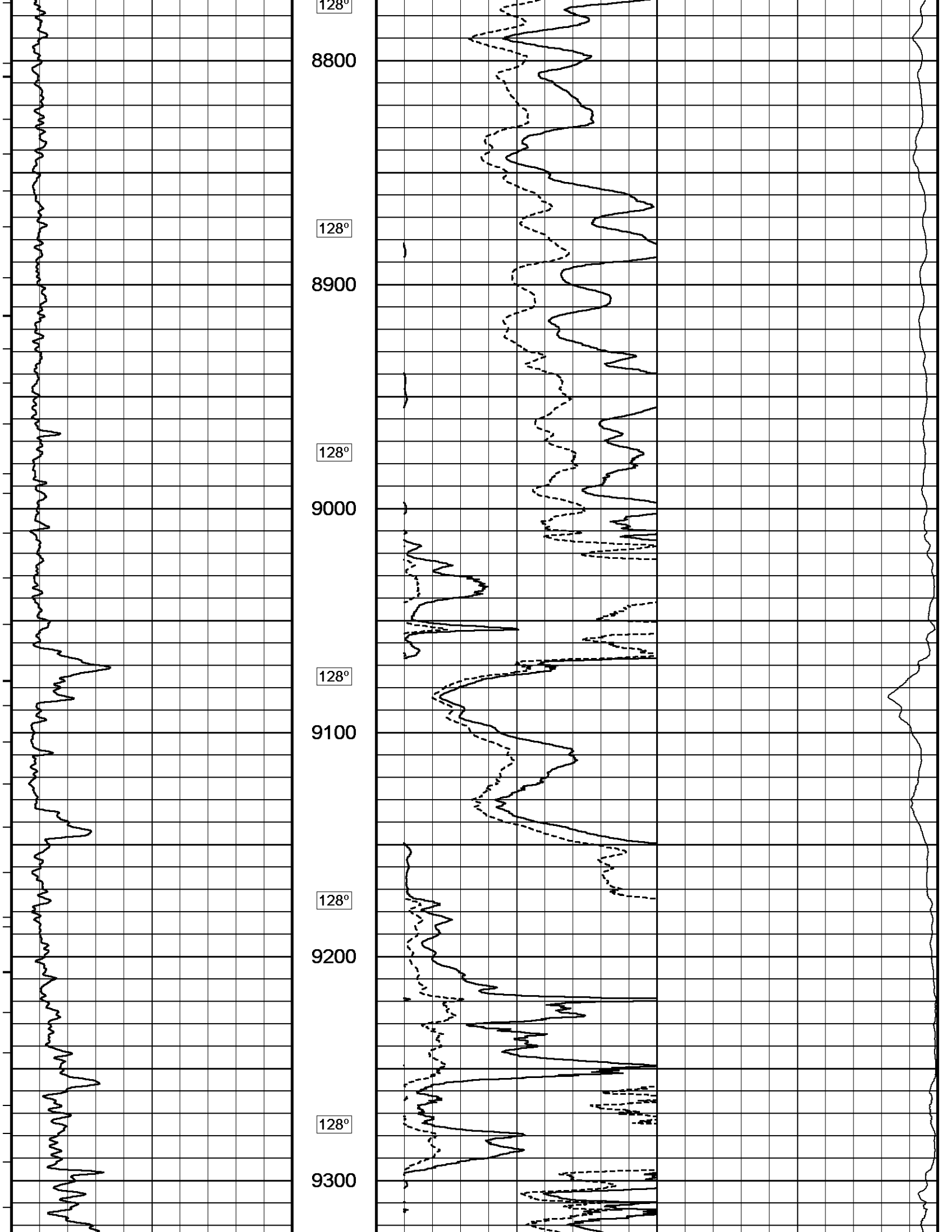
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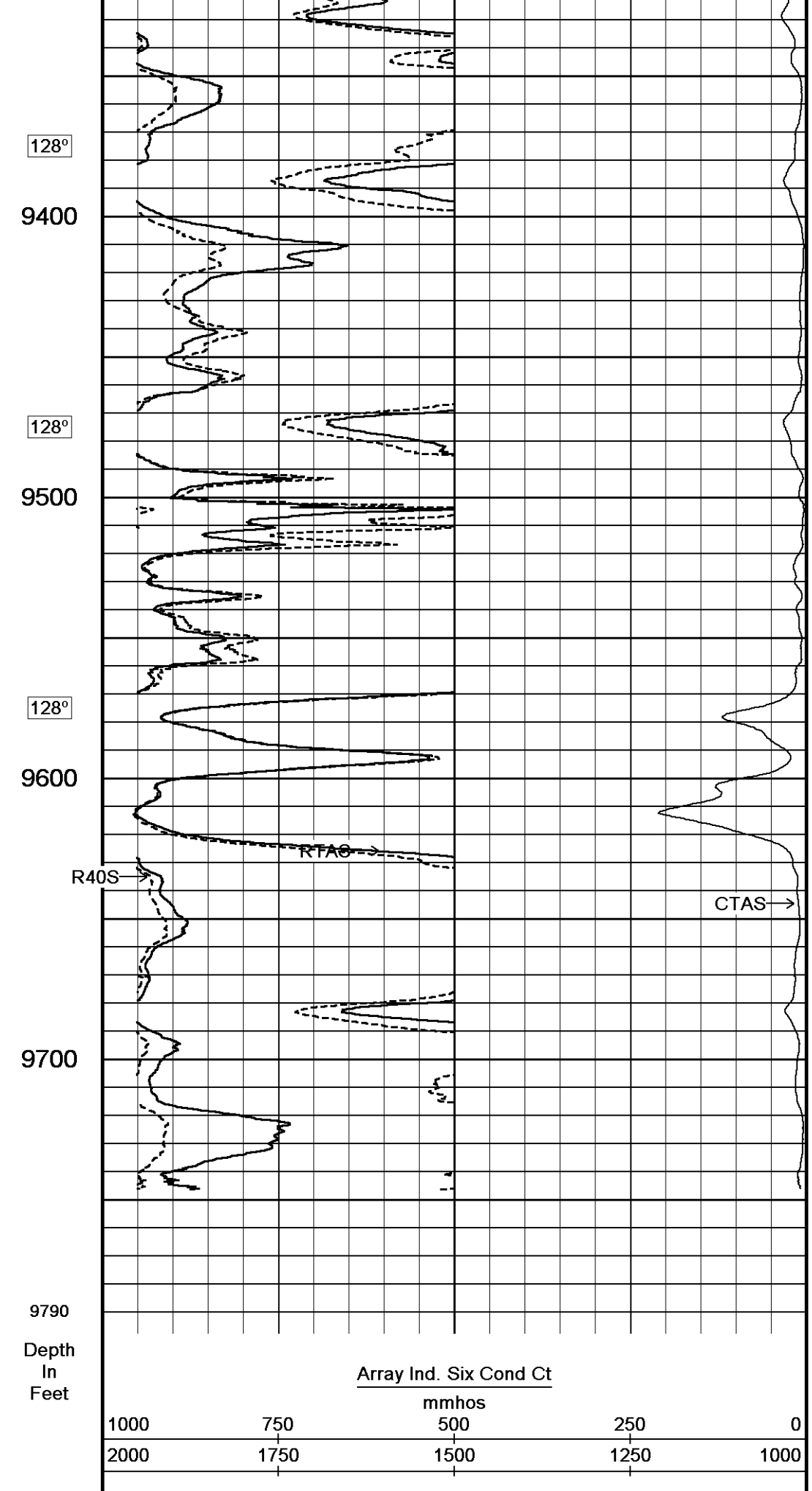
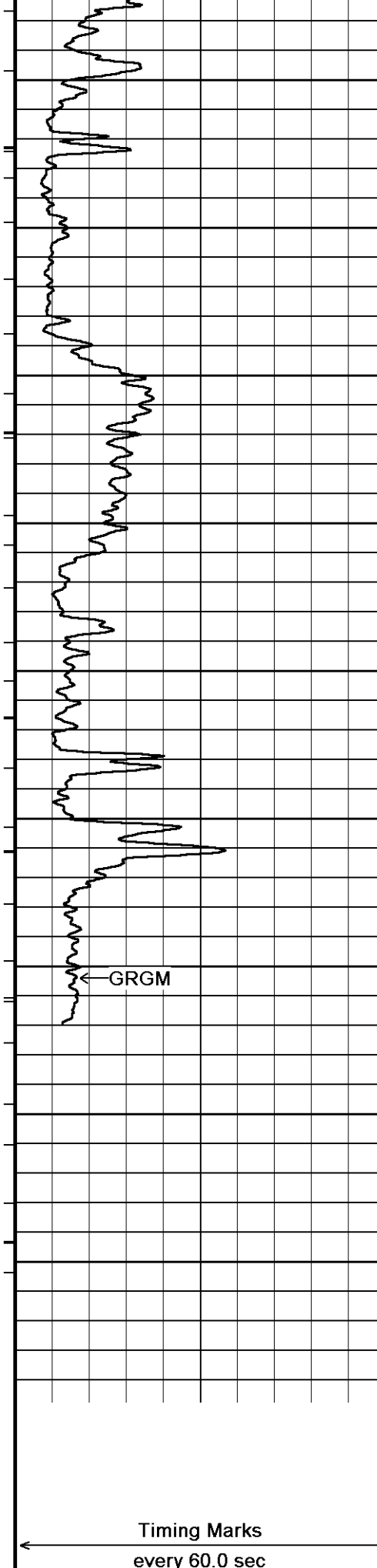
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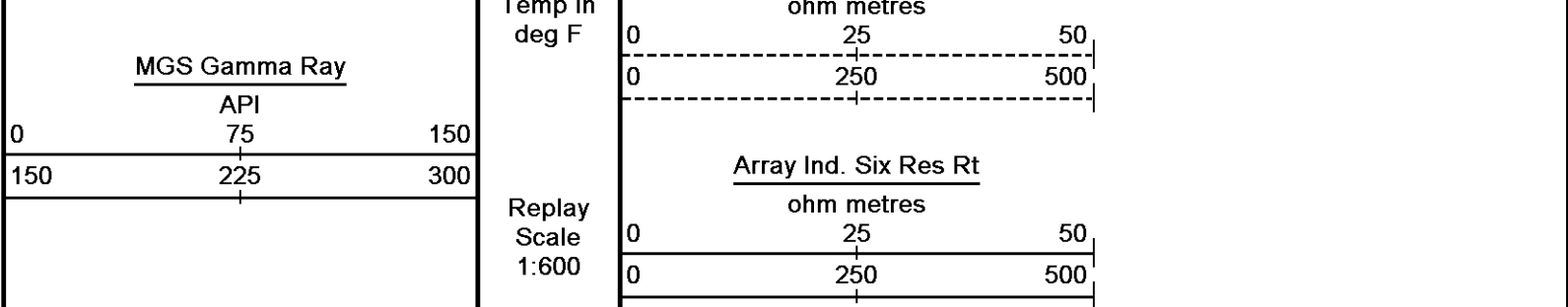
8700



CTAS →







Depth Based Data - Maximum Sampling Increment 10.0cm

Plotted on 23-DEC-2012 12:55

Filename: C:\DATA_13_04_8492\SANDRIDGE STAGECOACH 1-14H\Stagecoach rtap depth2.dta

Recorded on 23-DEC-2012 03:56

System Versions: Processed with 13.04.8492 Plotted with 13.04.8492

↑

2 INCH MAIN LOG

↑

↓

5 INCH MAIN LOG

↓

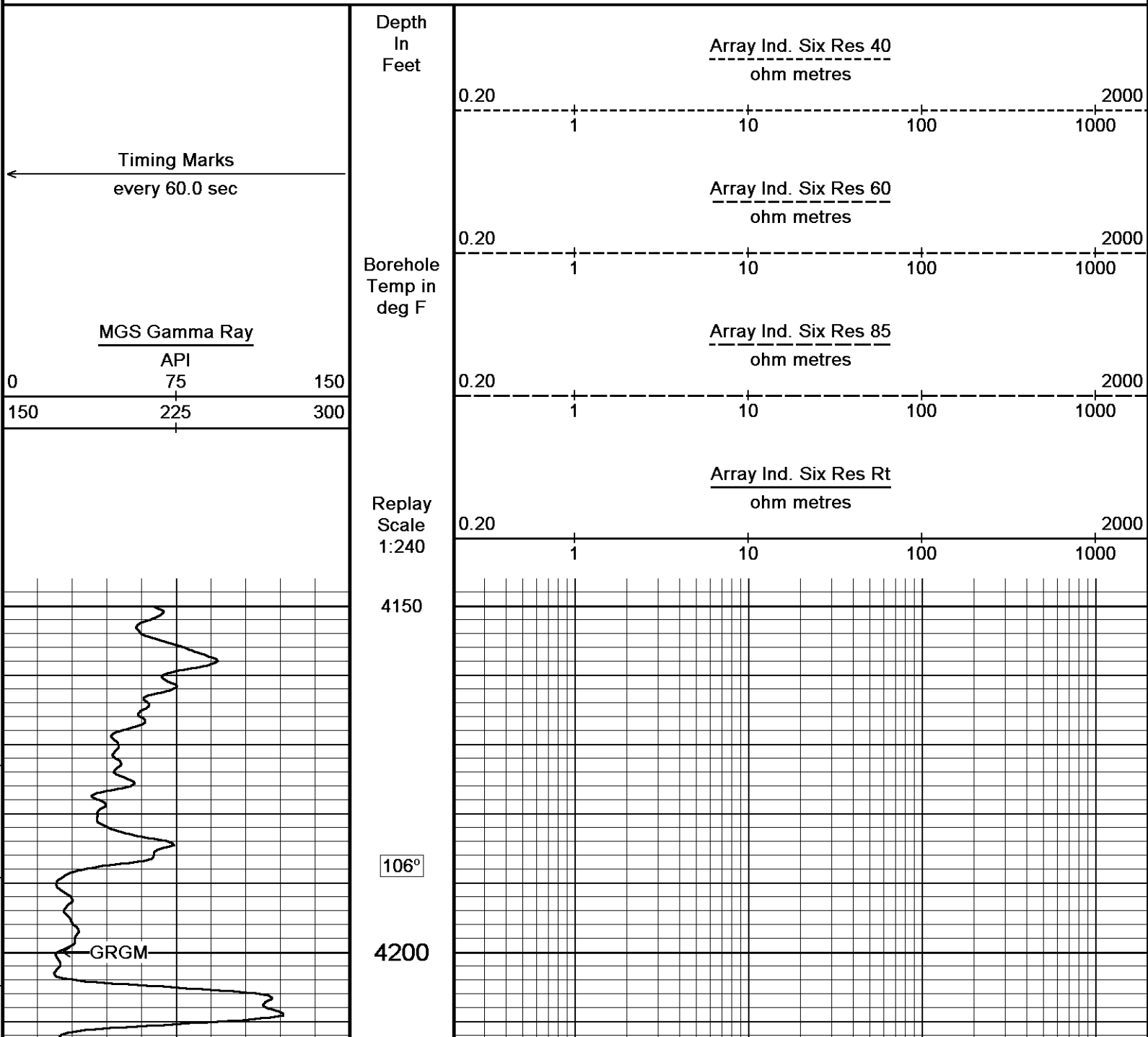
Depth Based Data - Maximum Sampling Increment 10.0cm

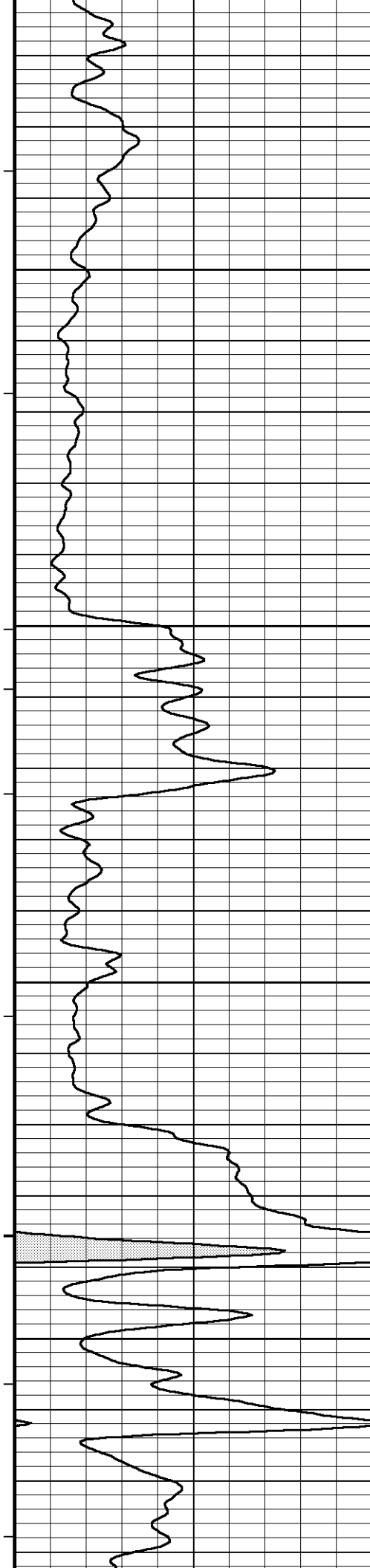
Plotted on 23-DEC-2012 12:55

Filename: C:\DATA_13_04_8492\SANDRIDGE STAGECOACH 1-14H\Stagecoach rtap depth2.dta

Recorded on 23-DEC-2012 03:56

System Versions: Processed with 13.04.8492 Plotted with 13.04.8492





107°

4250

107°

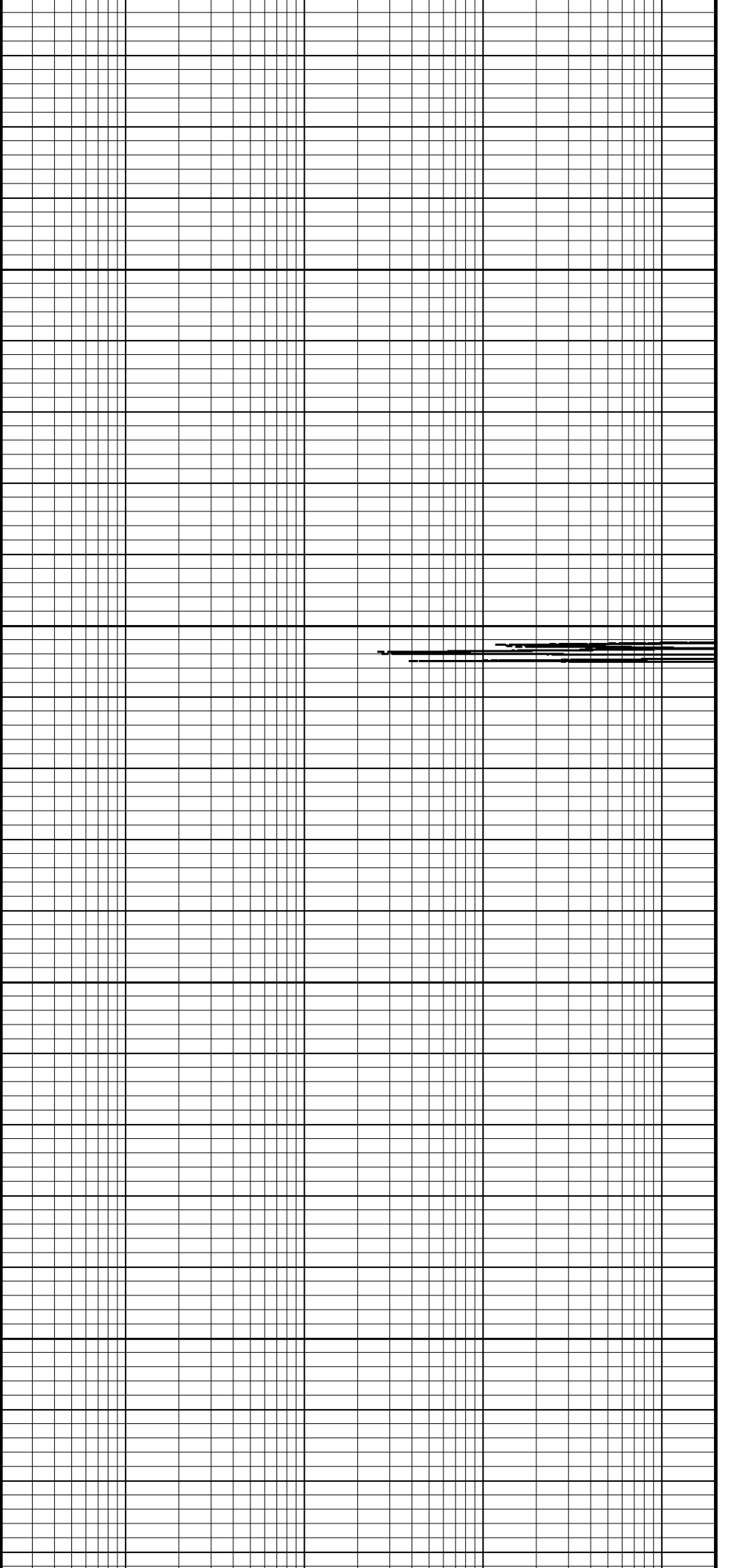
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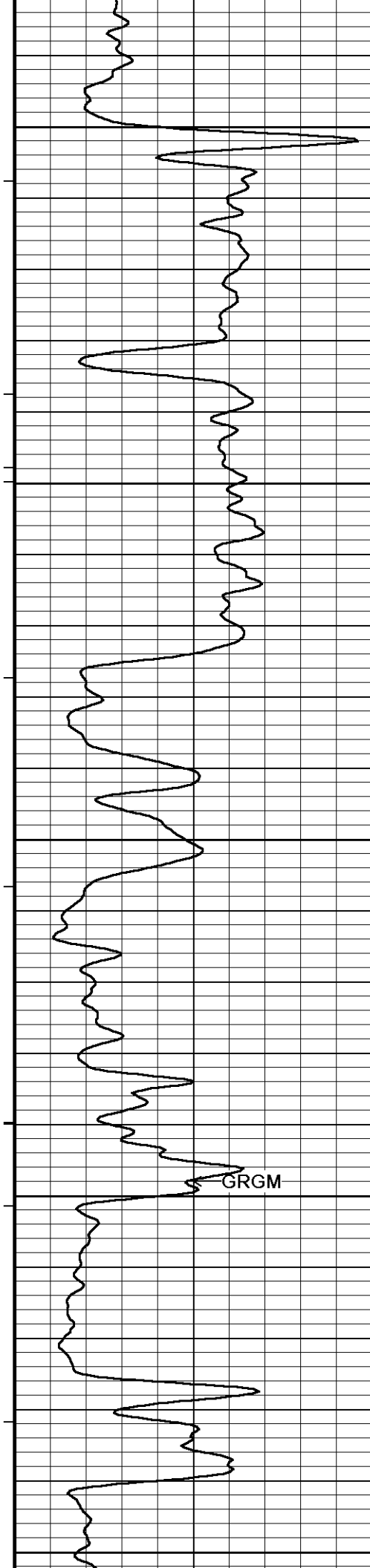
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4350

108°

4400





109°

4450

109°

4500

110°

4550

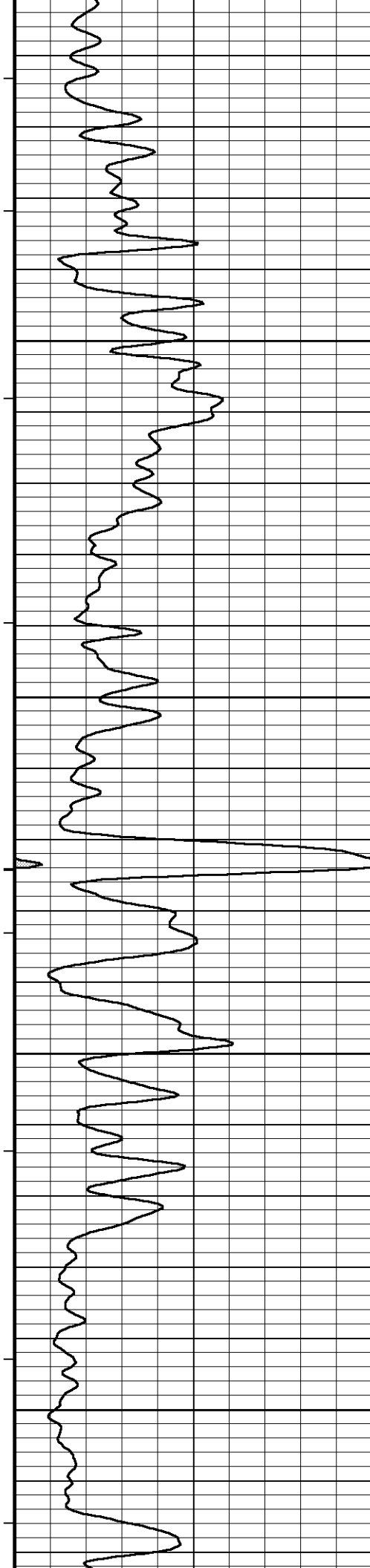
110°

GRGM

4600

111°

4650



111°

4700

112°

4750

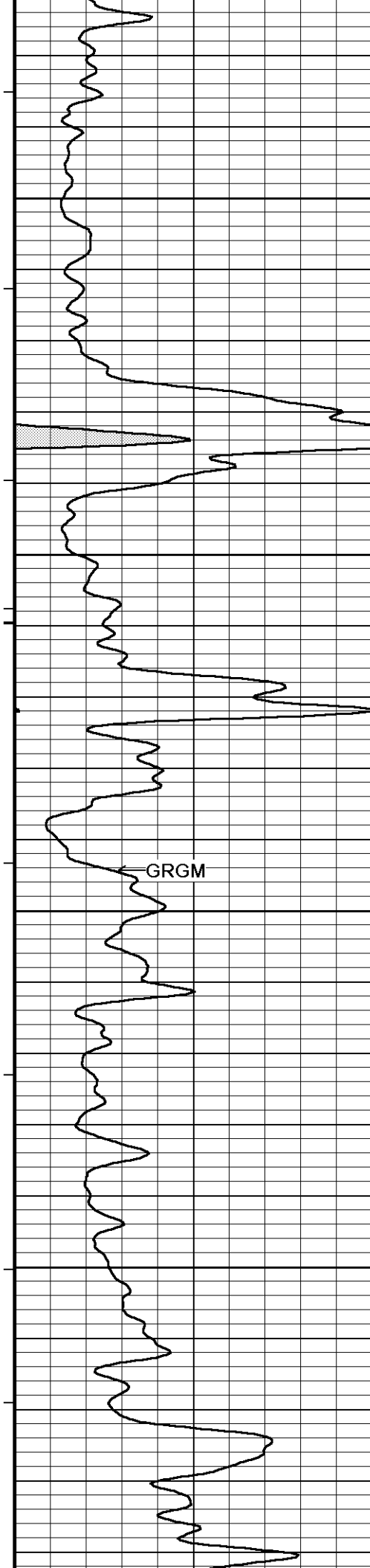
113°

4800

113°

4850

Intensity



114°

4900

114°

4950

115°

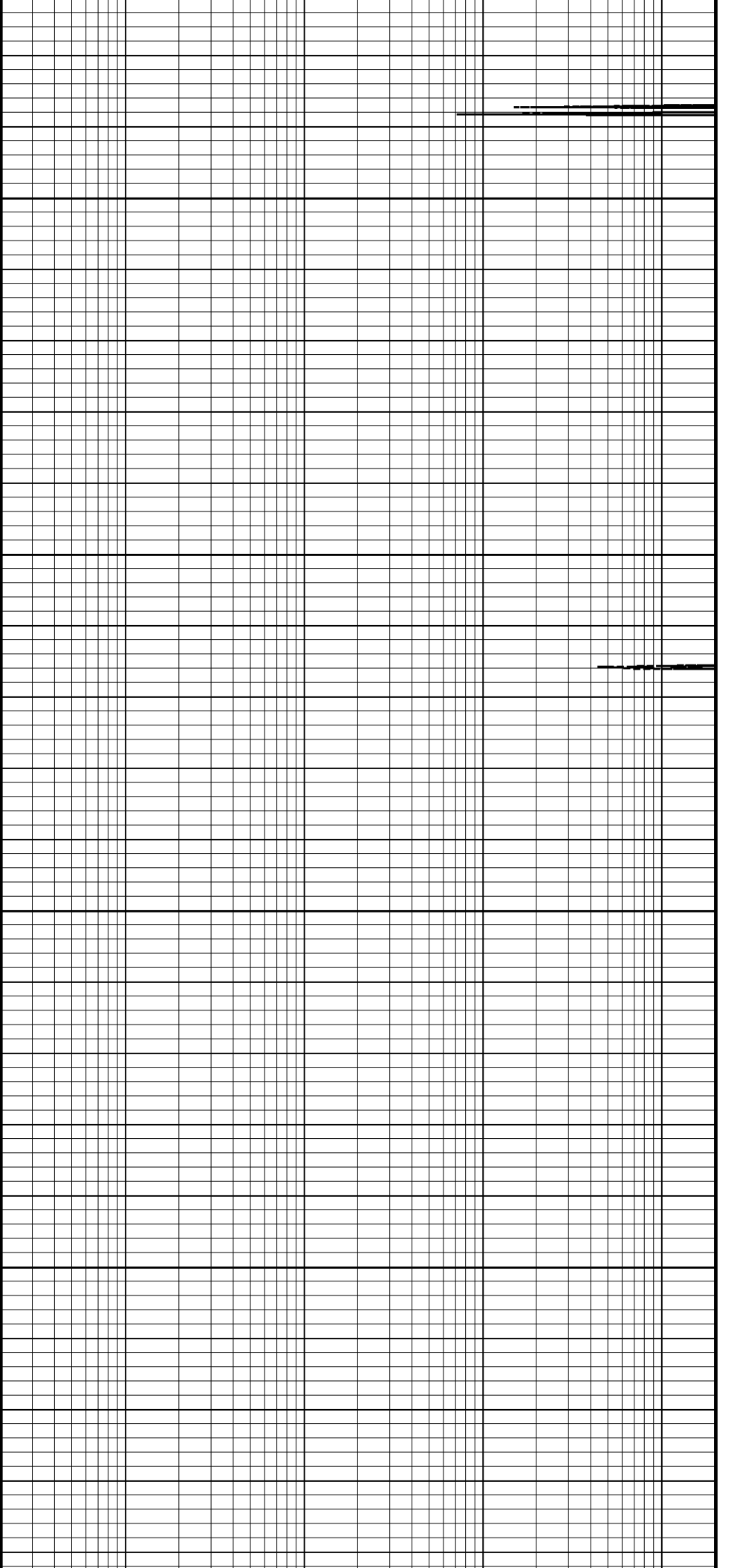
GRGM

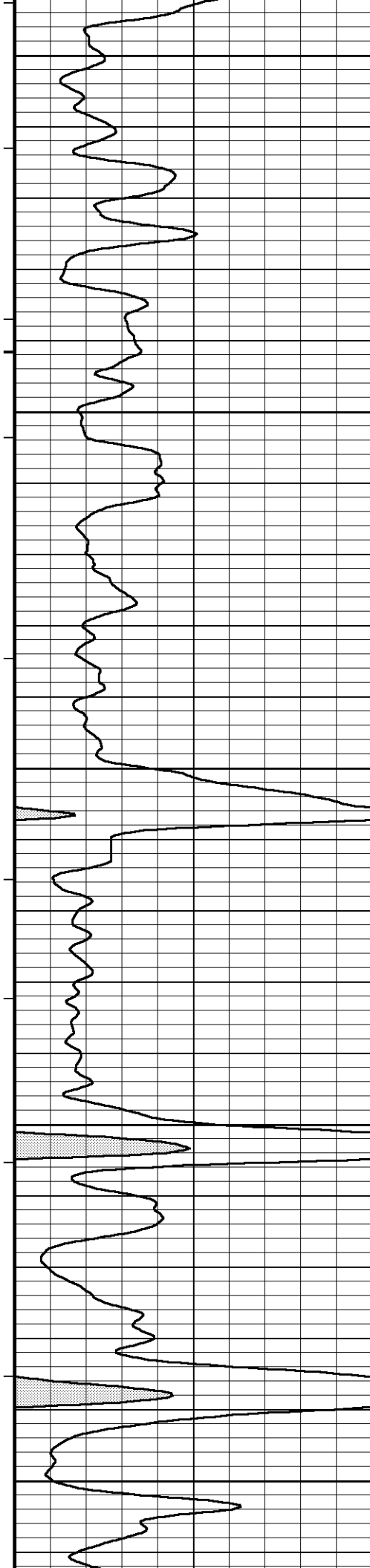
5000

116°

5050

116°





5100

116°

5150

117°

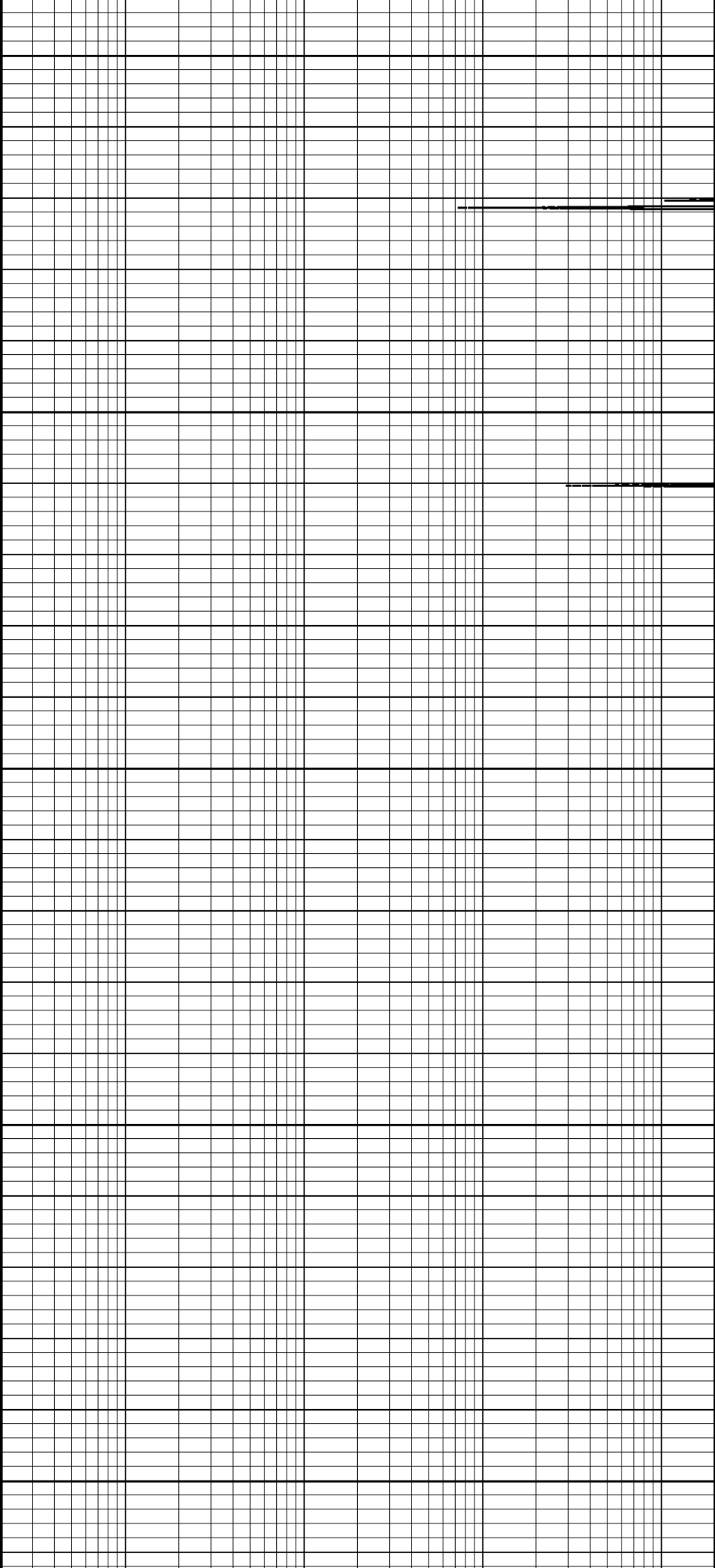
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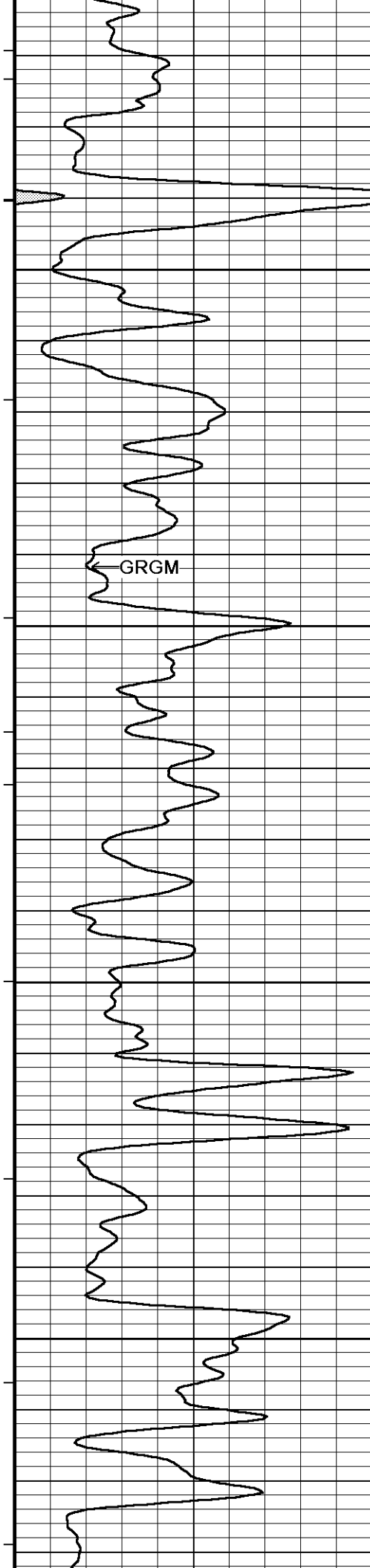
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5250

118°

5300





118°

5350

119°

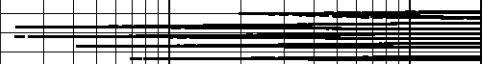
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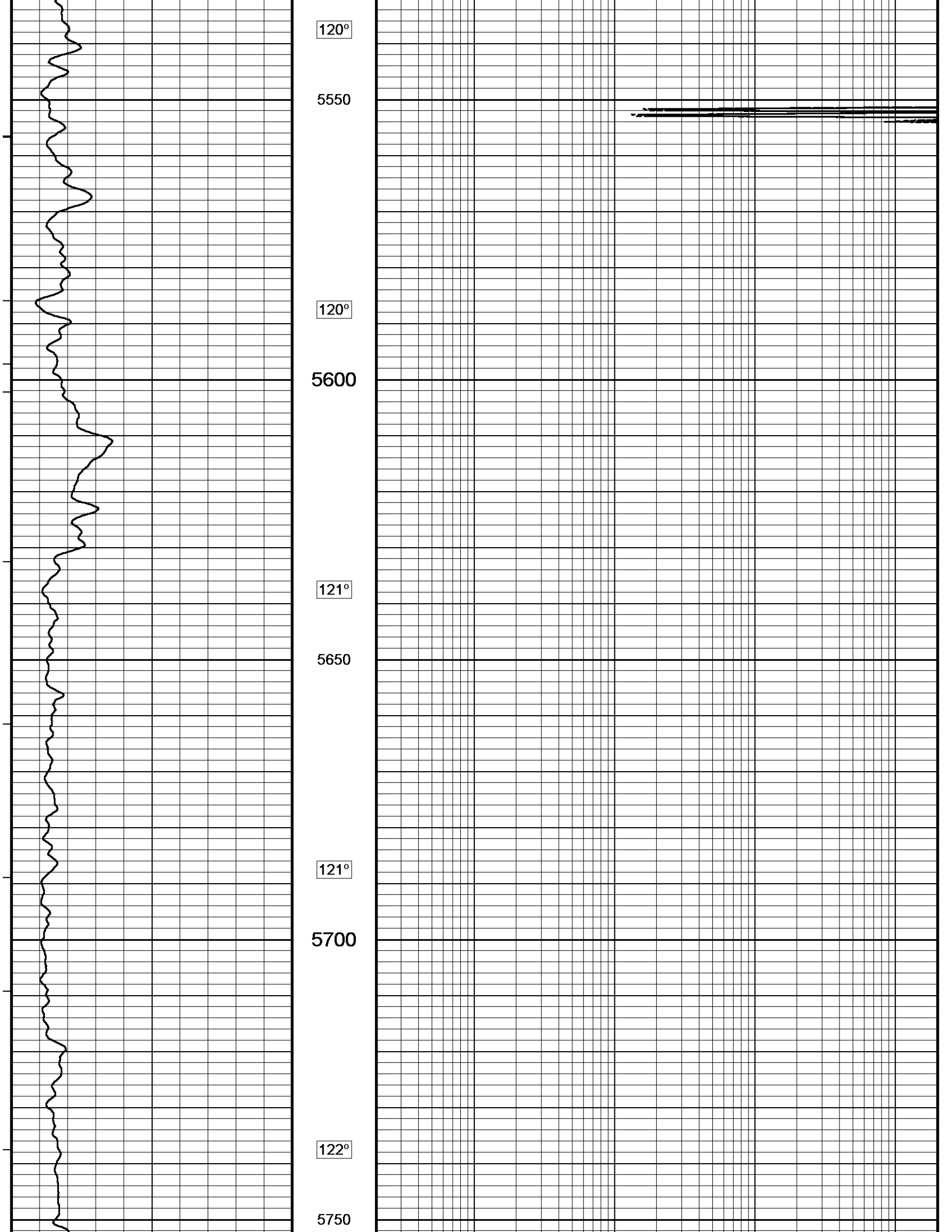
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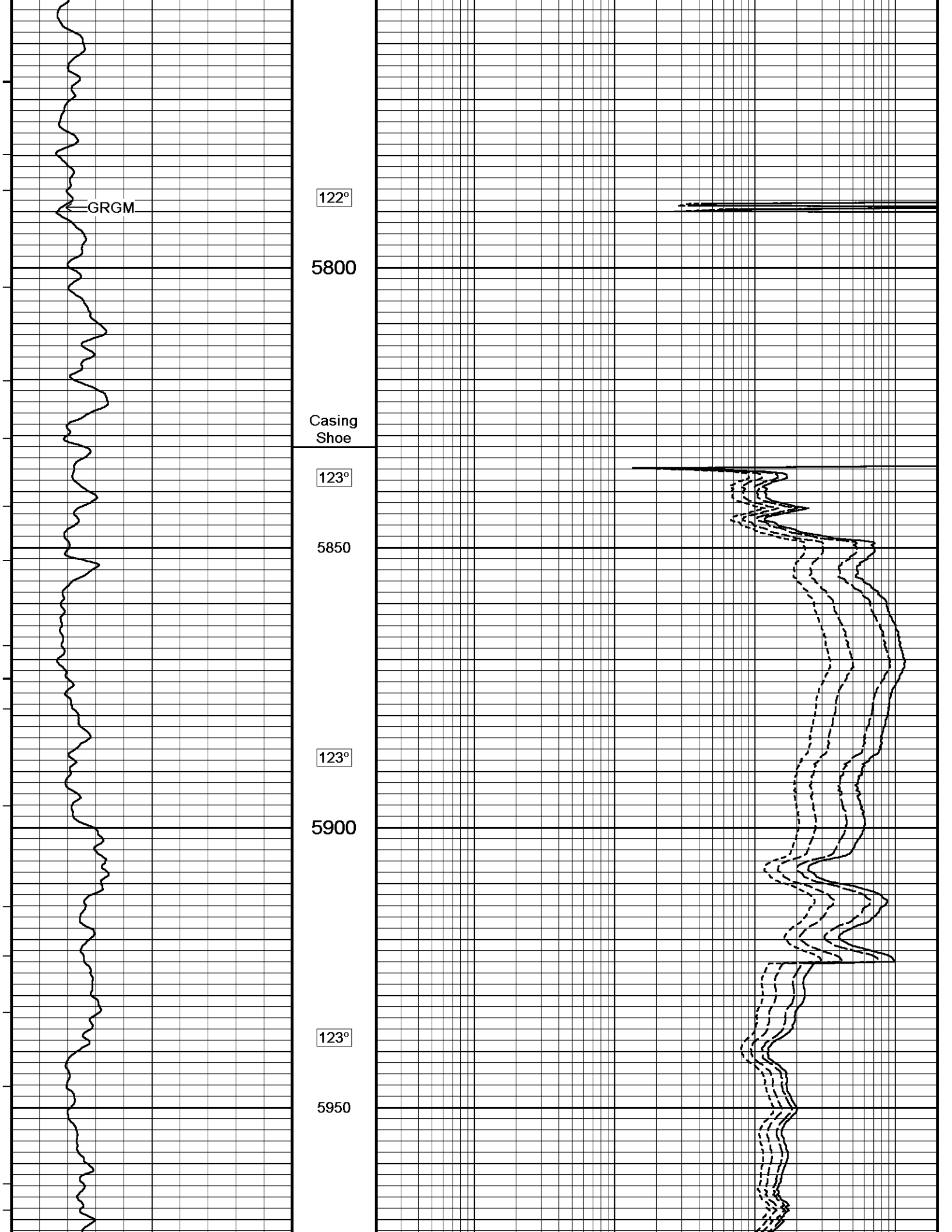
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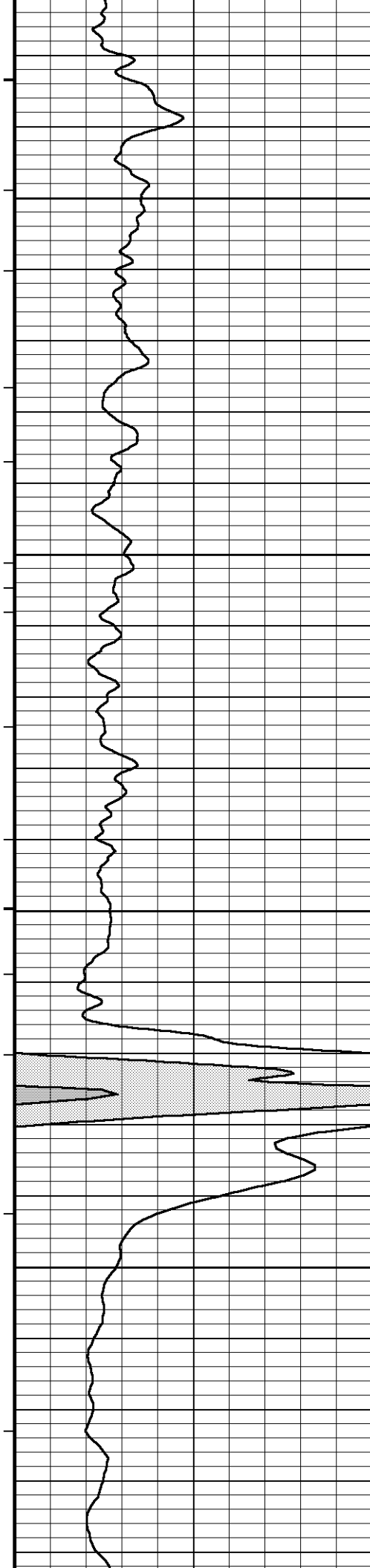
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5500









123°

6000

123°

6050

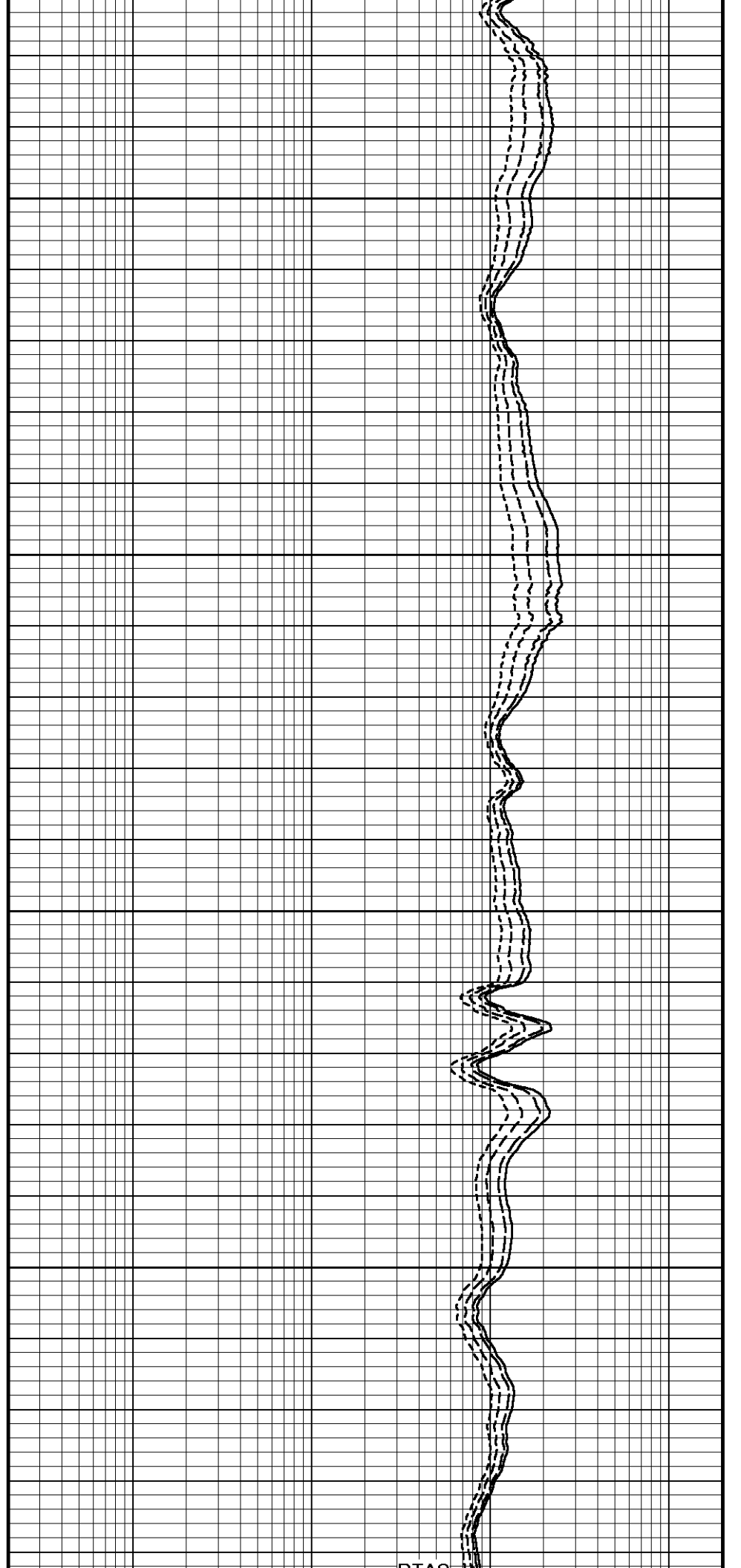
123°

6100

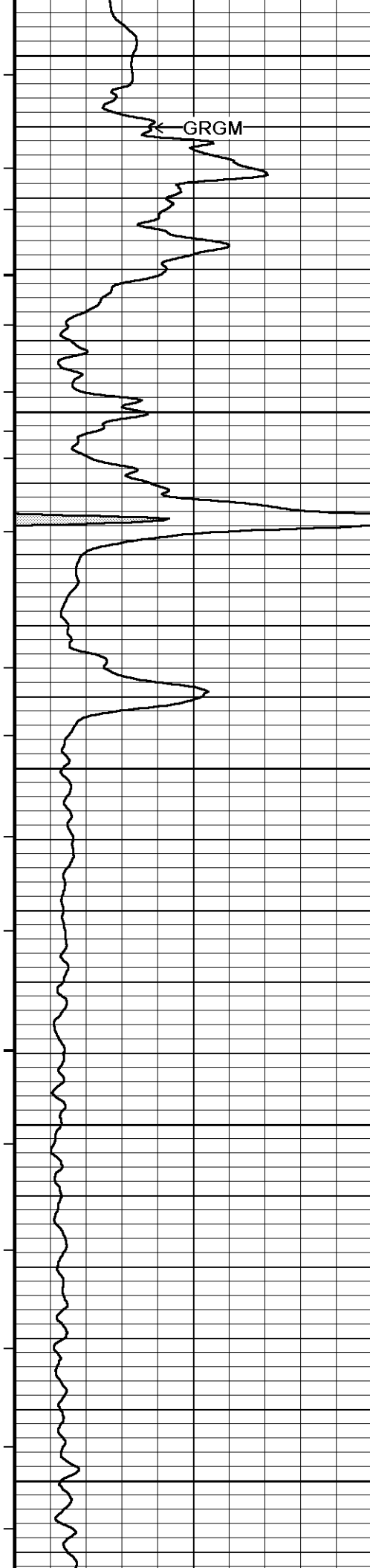
123°

6150

123°



BTAG



6200

GRGM

124°

6250

124°

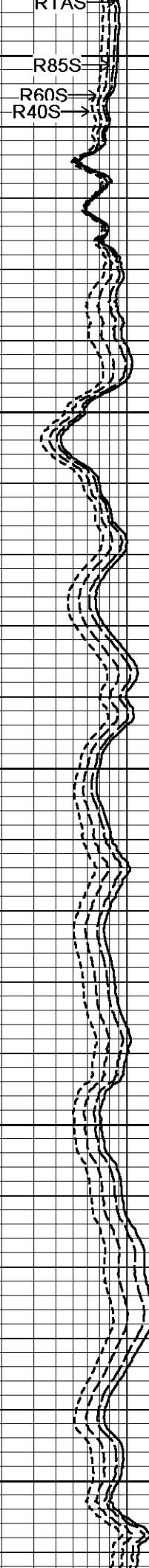
6300

124°

6350

124°

6400

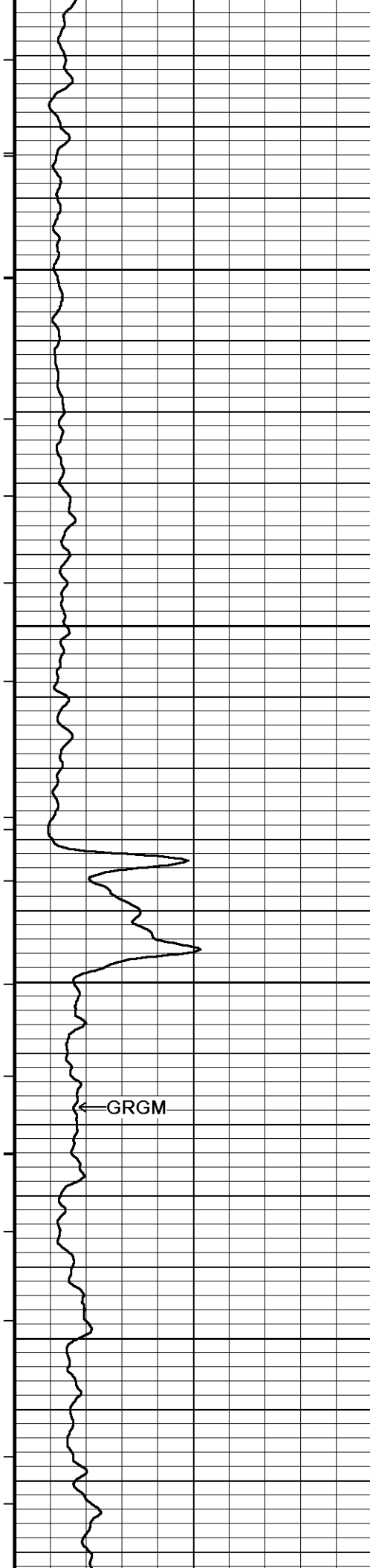


RTAS

R85S

R60S

R40S



124°

6450

124°

6500

124°

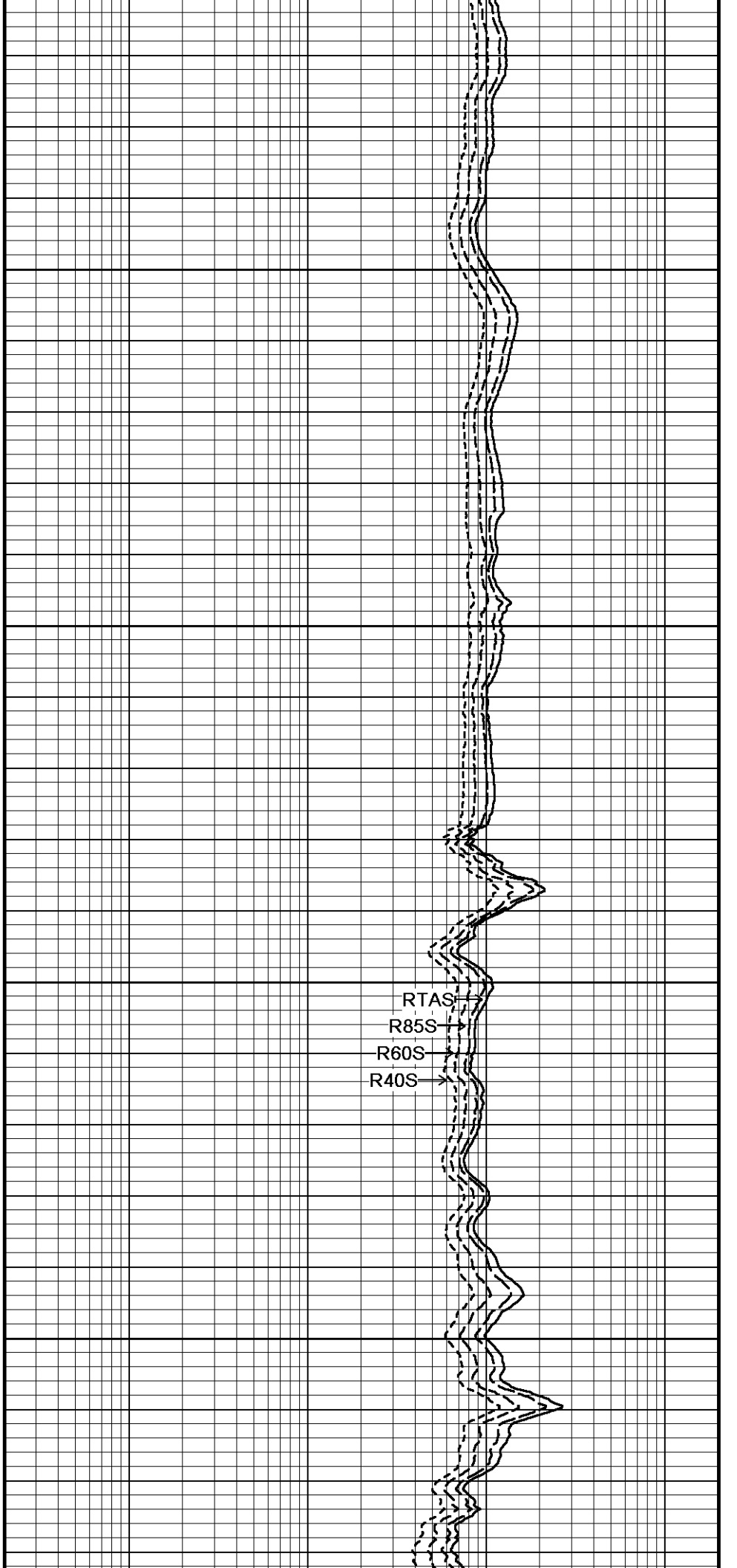
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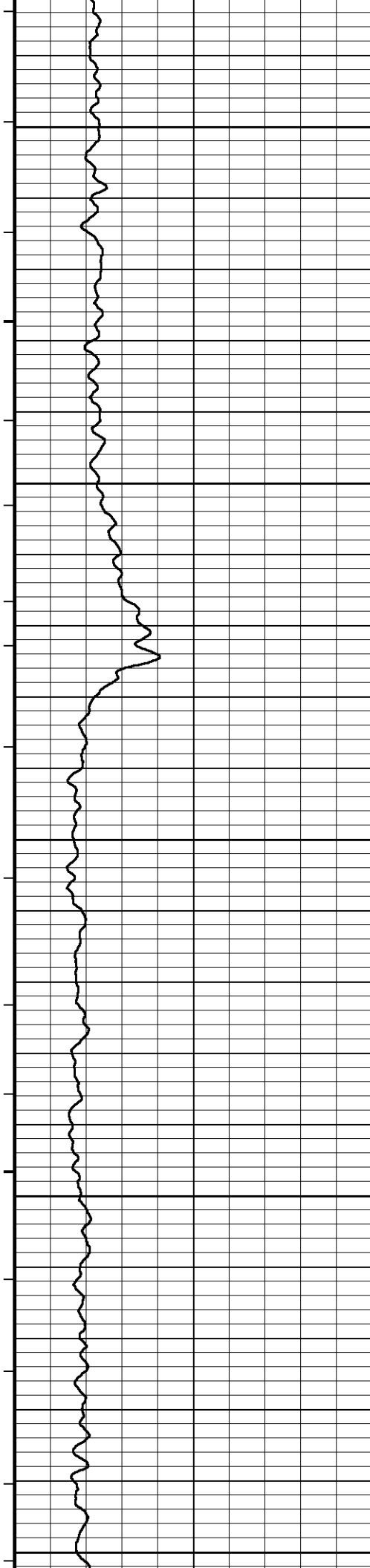
← GRGM

124°

6600

RTAS
R85S
R60S
R40S





124°

6650

124°

6700

125°

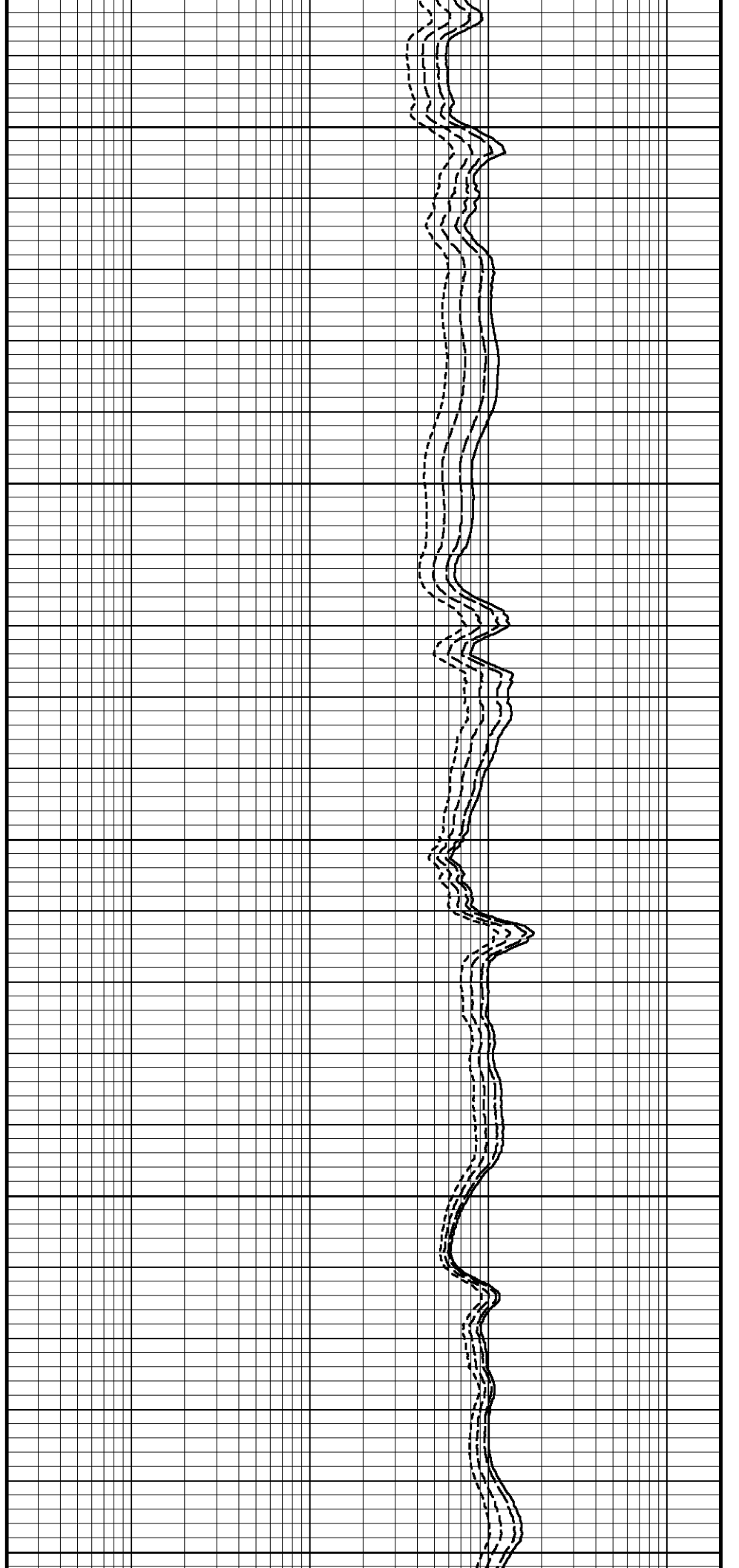
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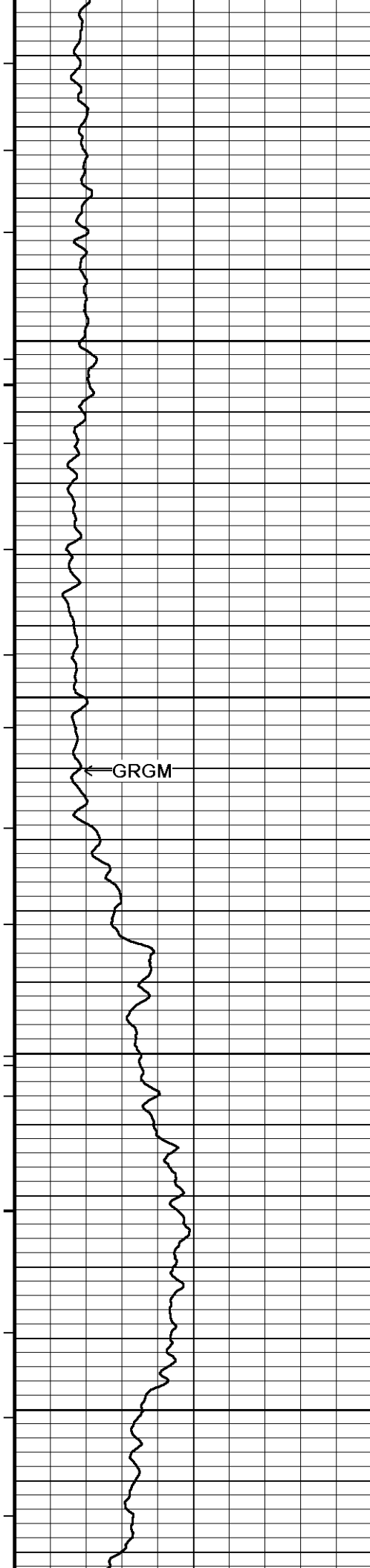
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6800

124°

6850





124°

6900

125°

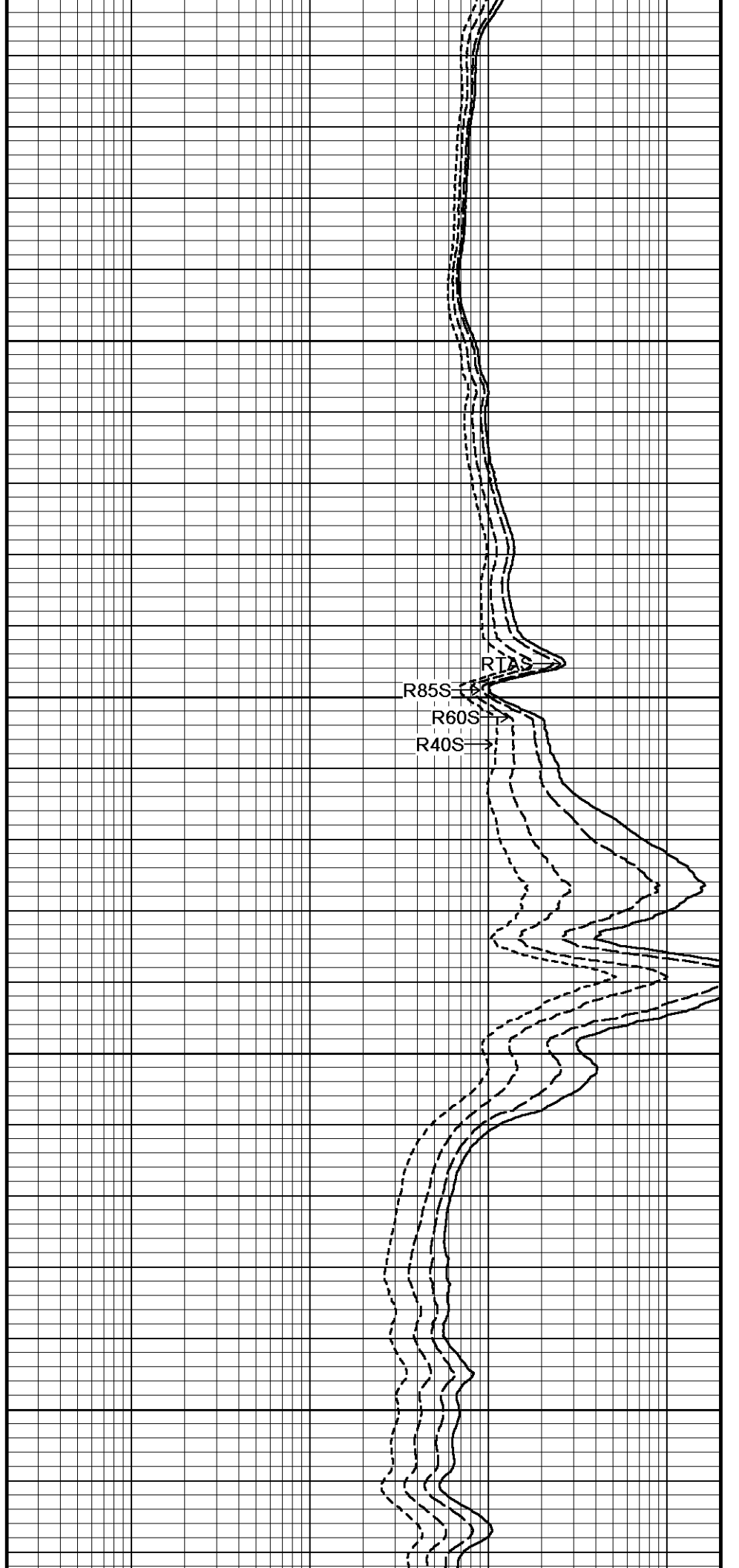
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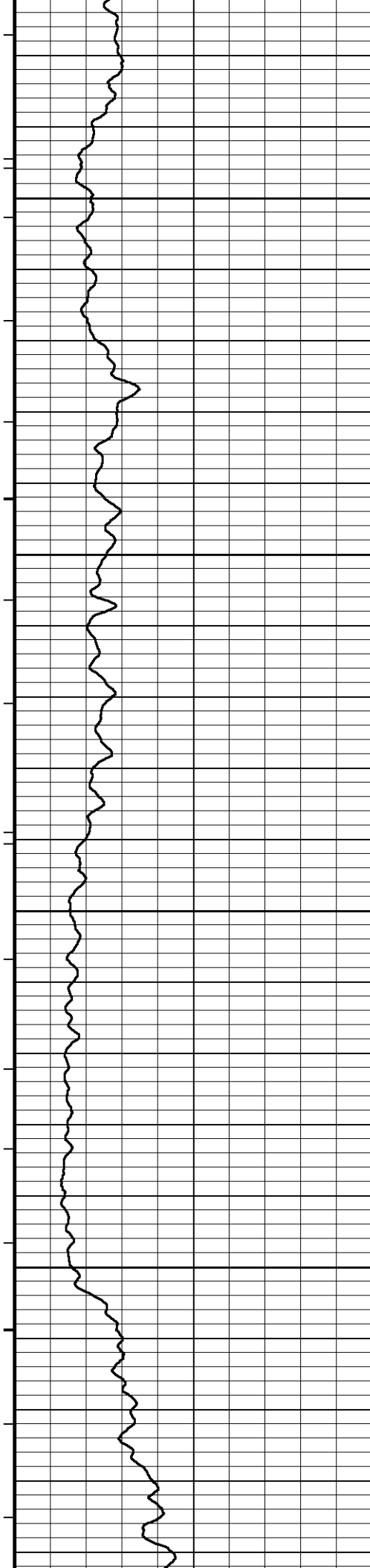
124°

7000

125°

7050





125°

7100

125°

7150

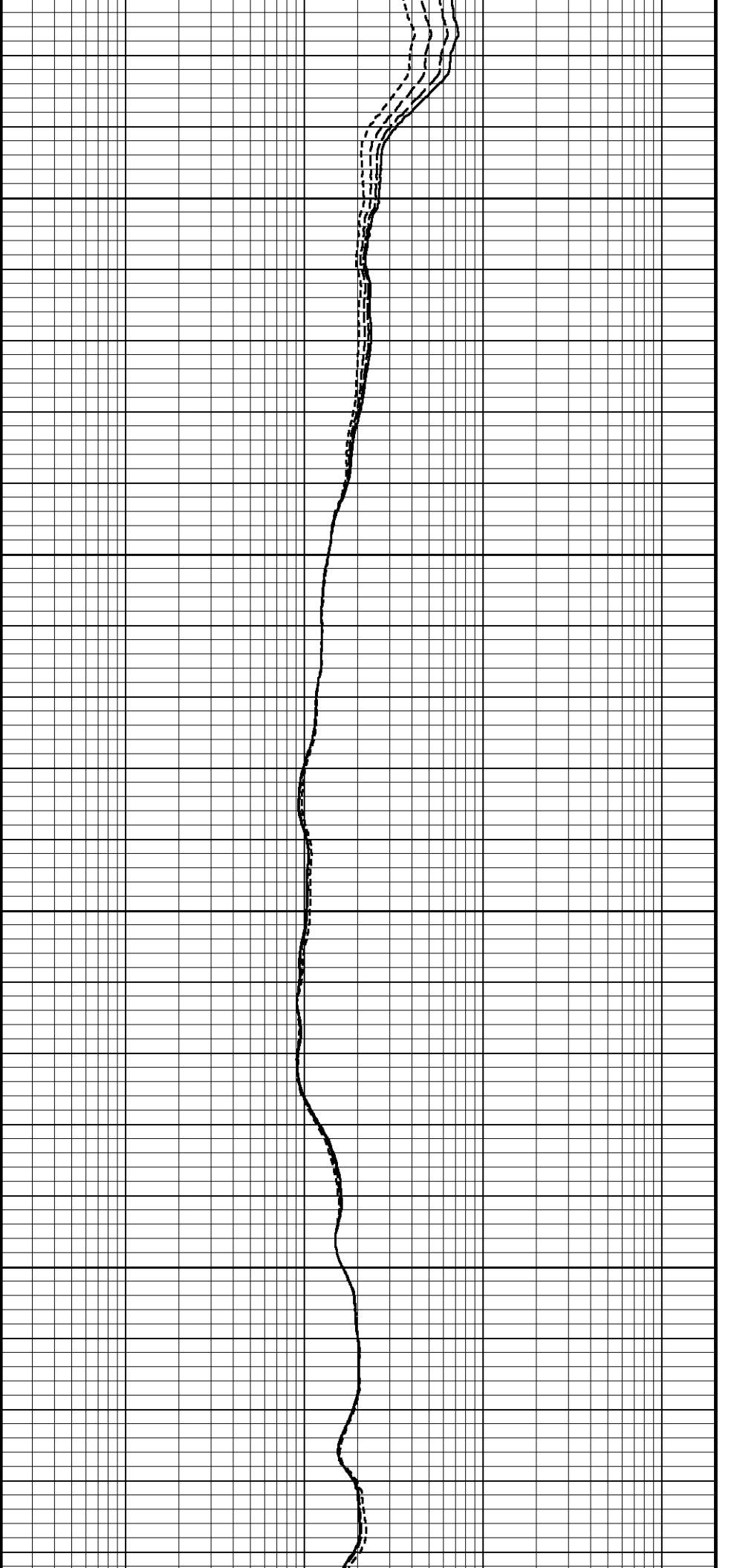
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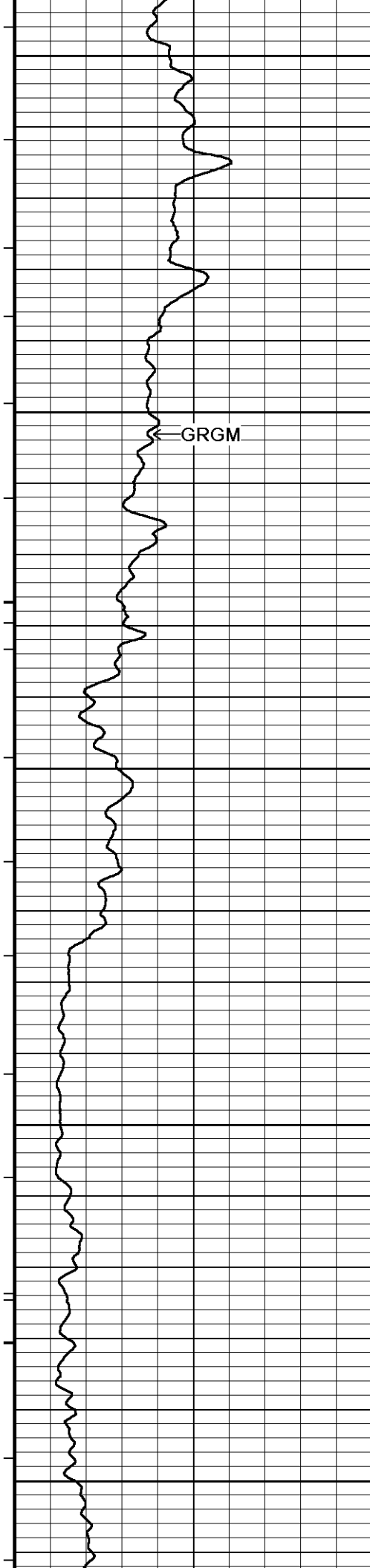
7200

125°

7250

125°





7300

125°

7350

125°

7400

125°

7450

126°

7500

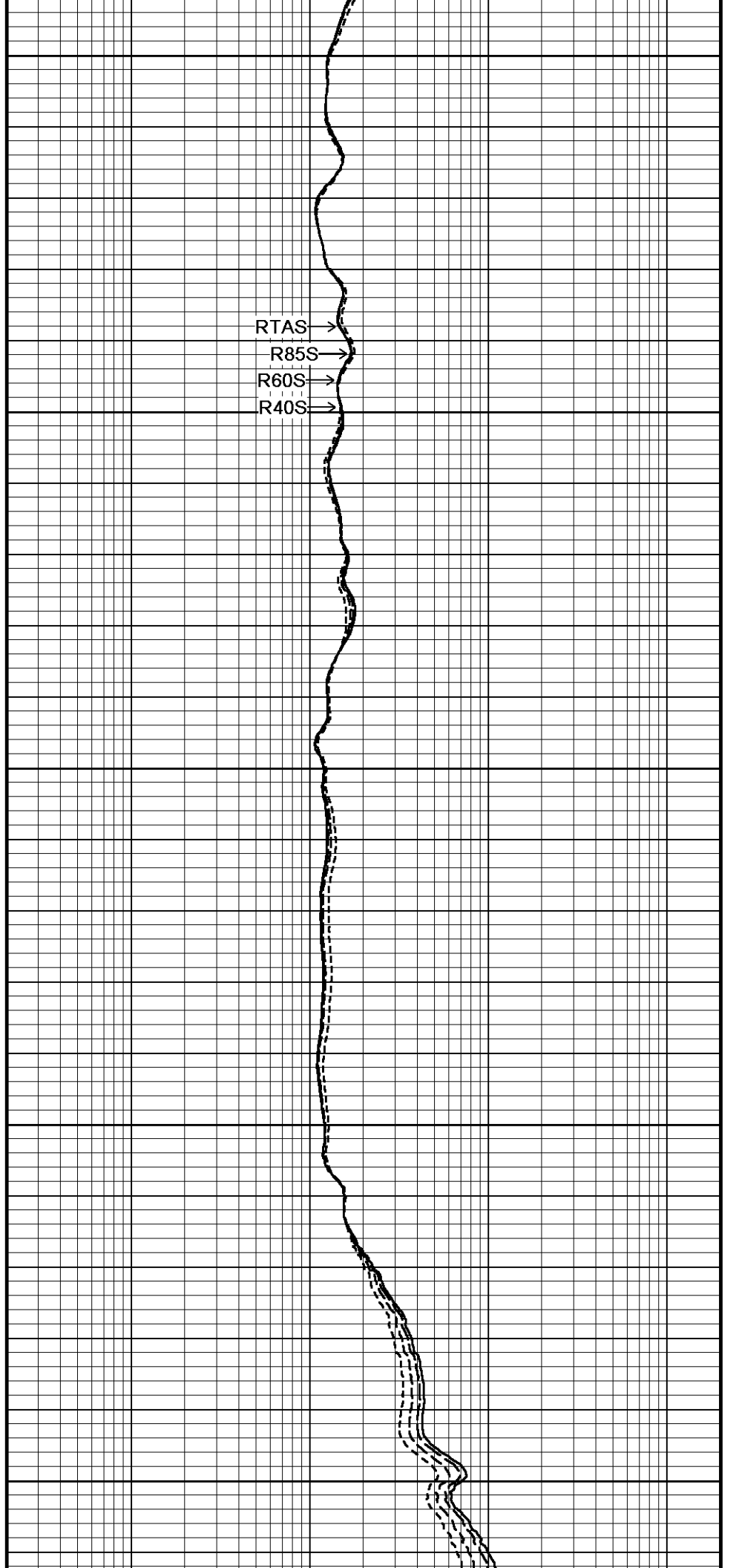
← GRGM

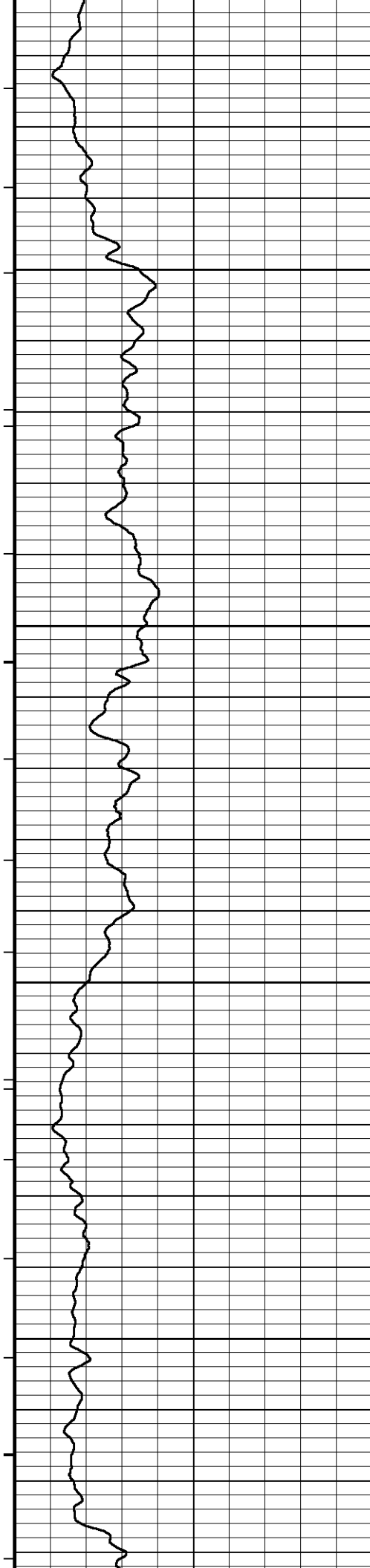
RTAS →

R85S →

R60S →

R40S →





126°

7550

126°

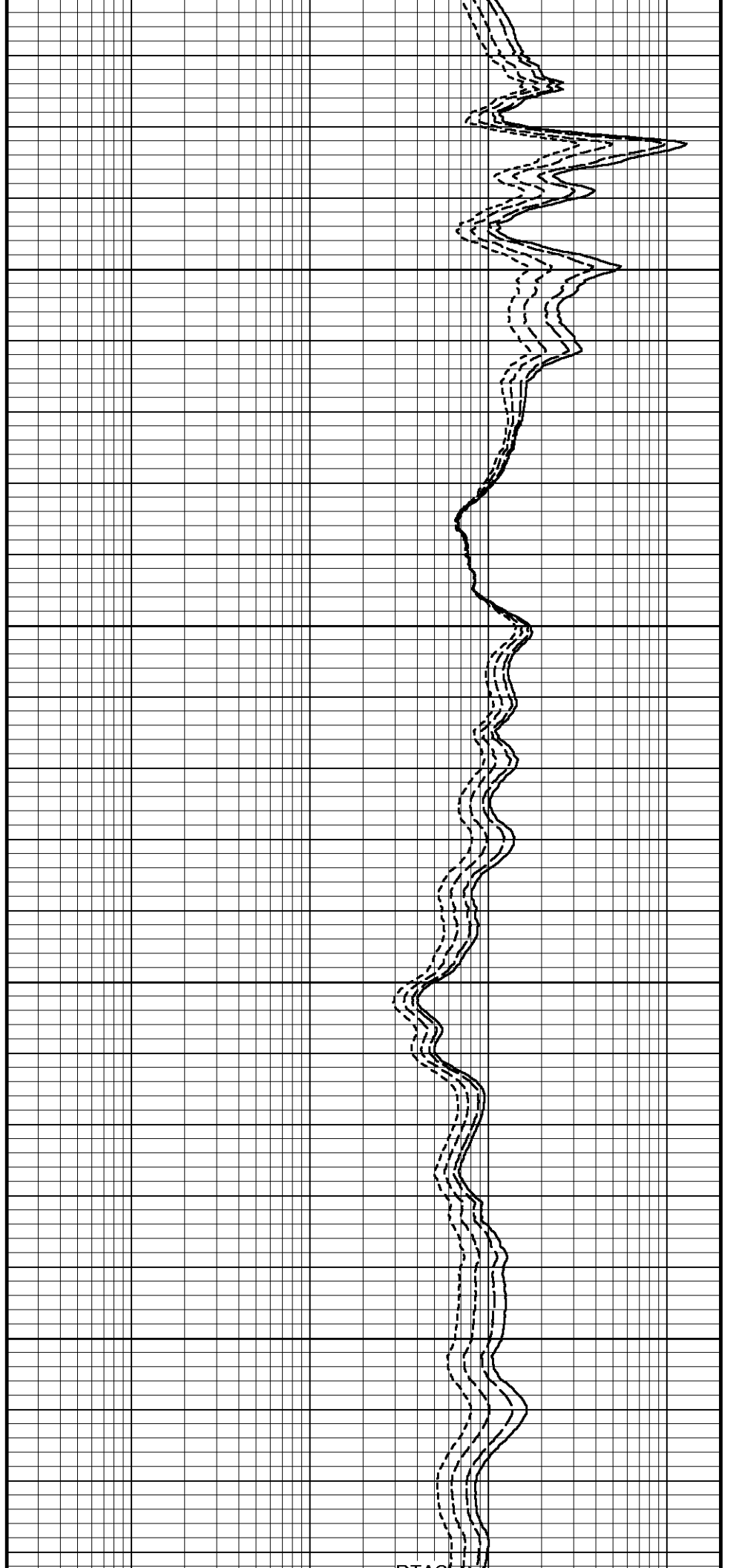
7600

126°

7650

126°

7700





126°

7750

126°

7800

126°

7850

126°

7900

126°

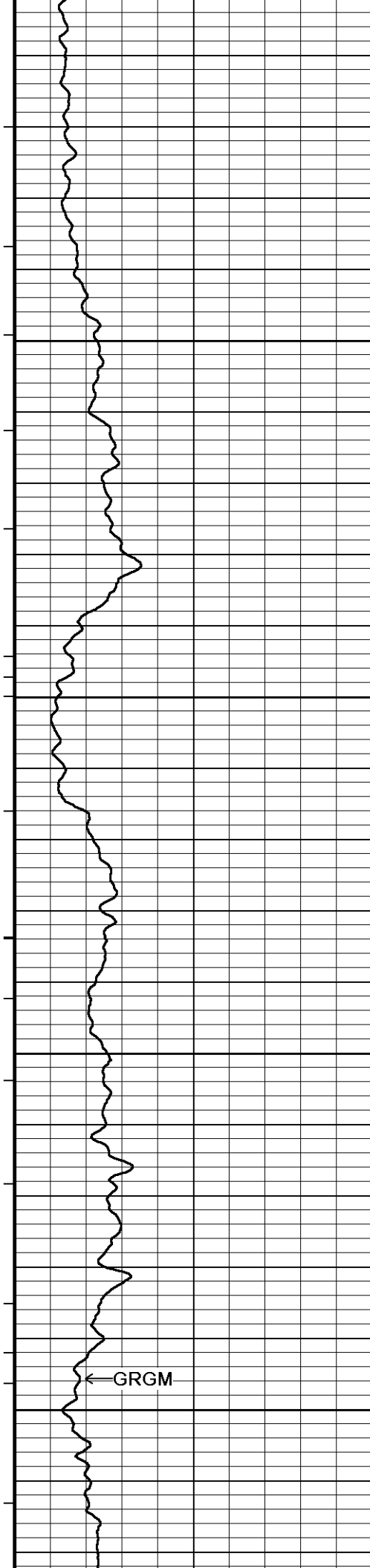
7950

RTAS

R85S

R60S

R40S



126°

8000

127°

8050

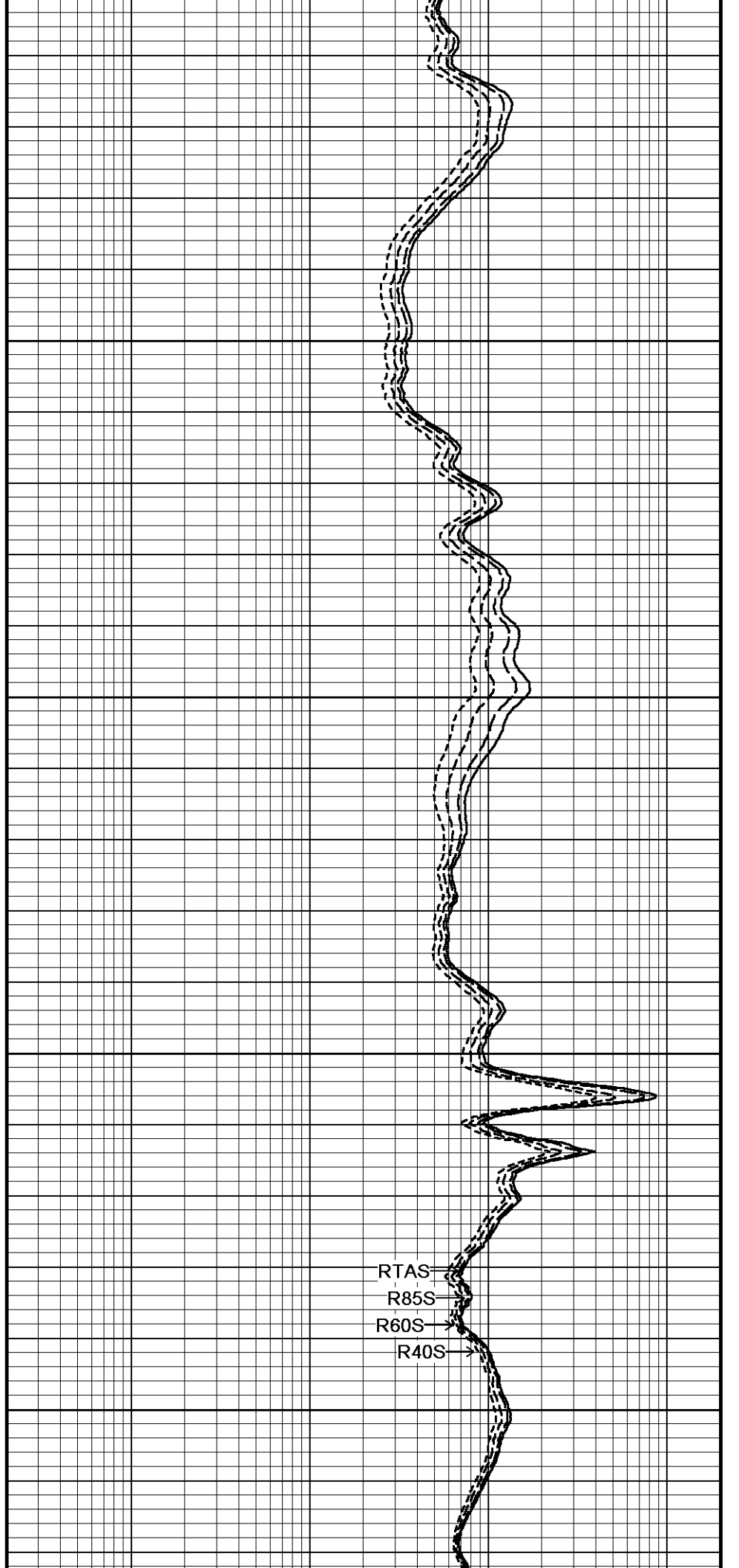
127°

8100

127°

8150

← GRGM

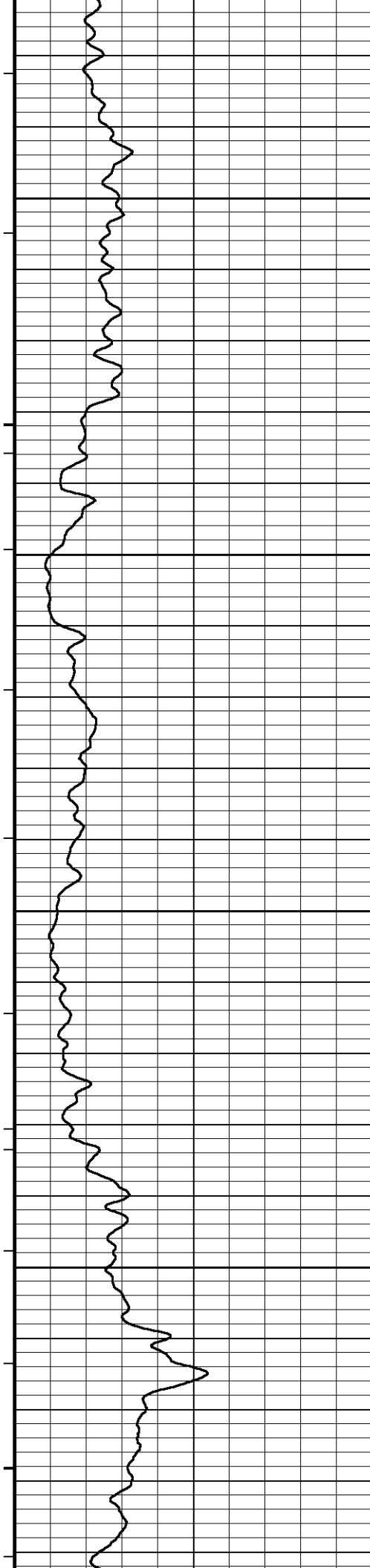


RTAS

R85S

R60S

R40S



127°

8200

127°

8250

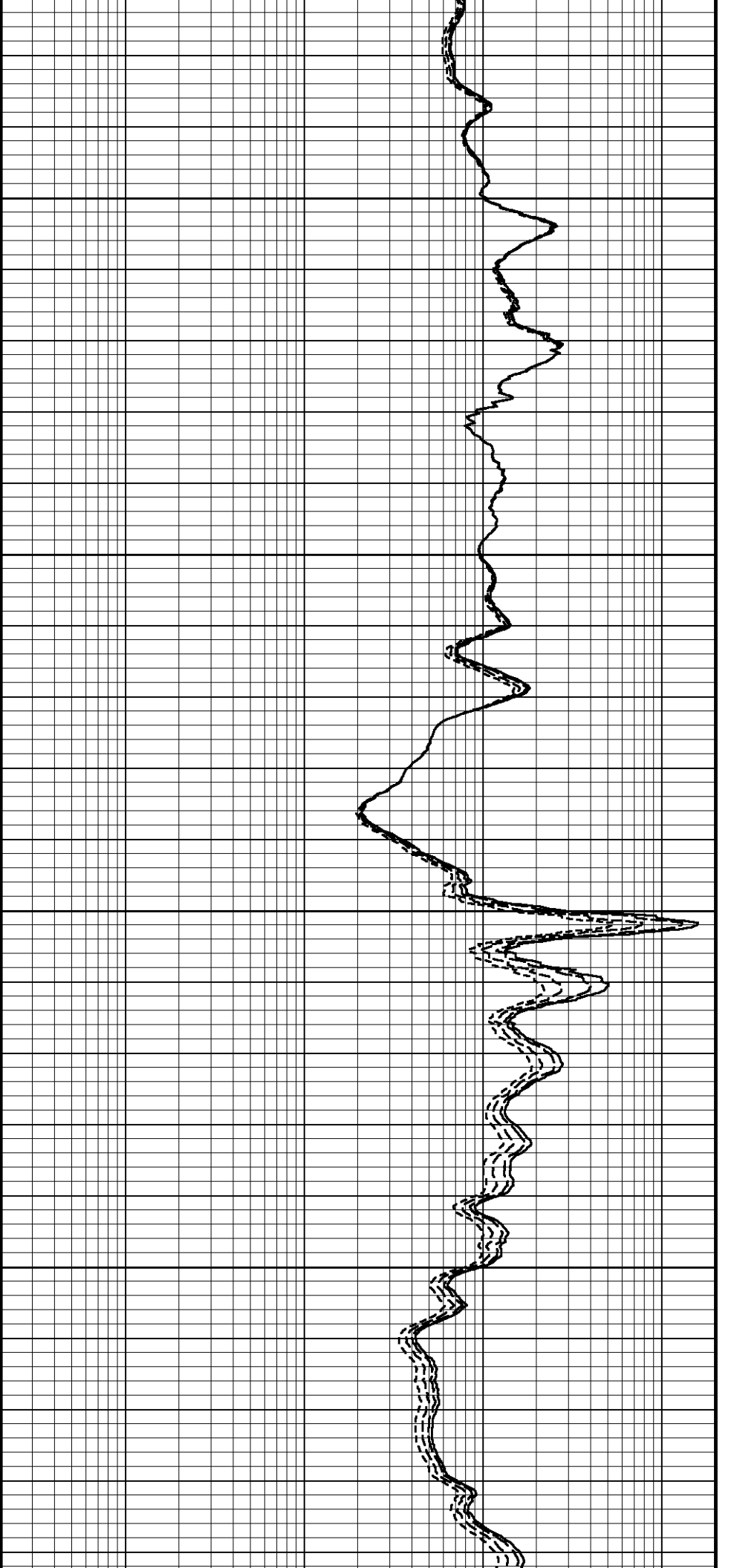
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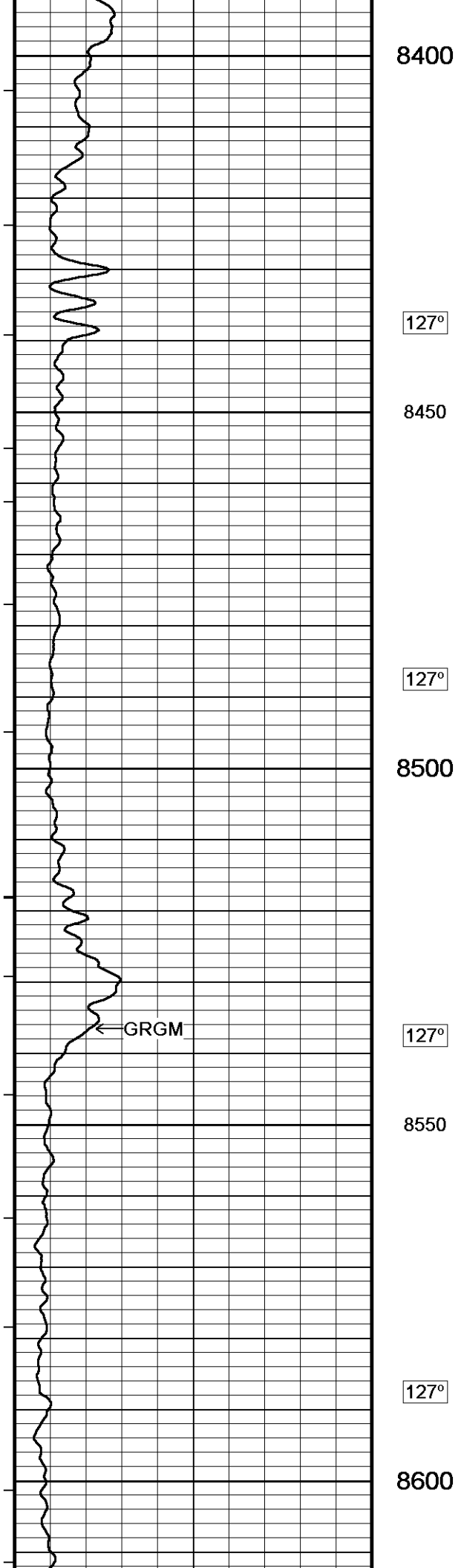
8300

127°

8350

127°



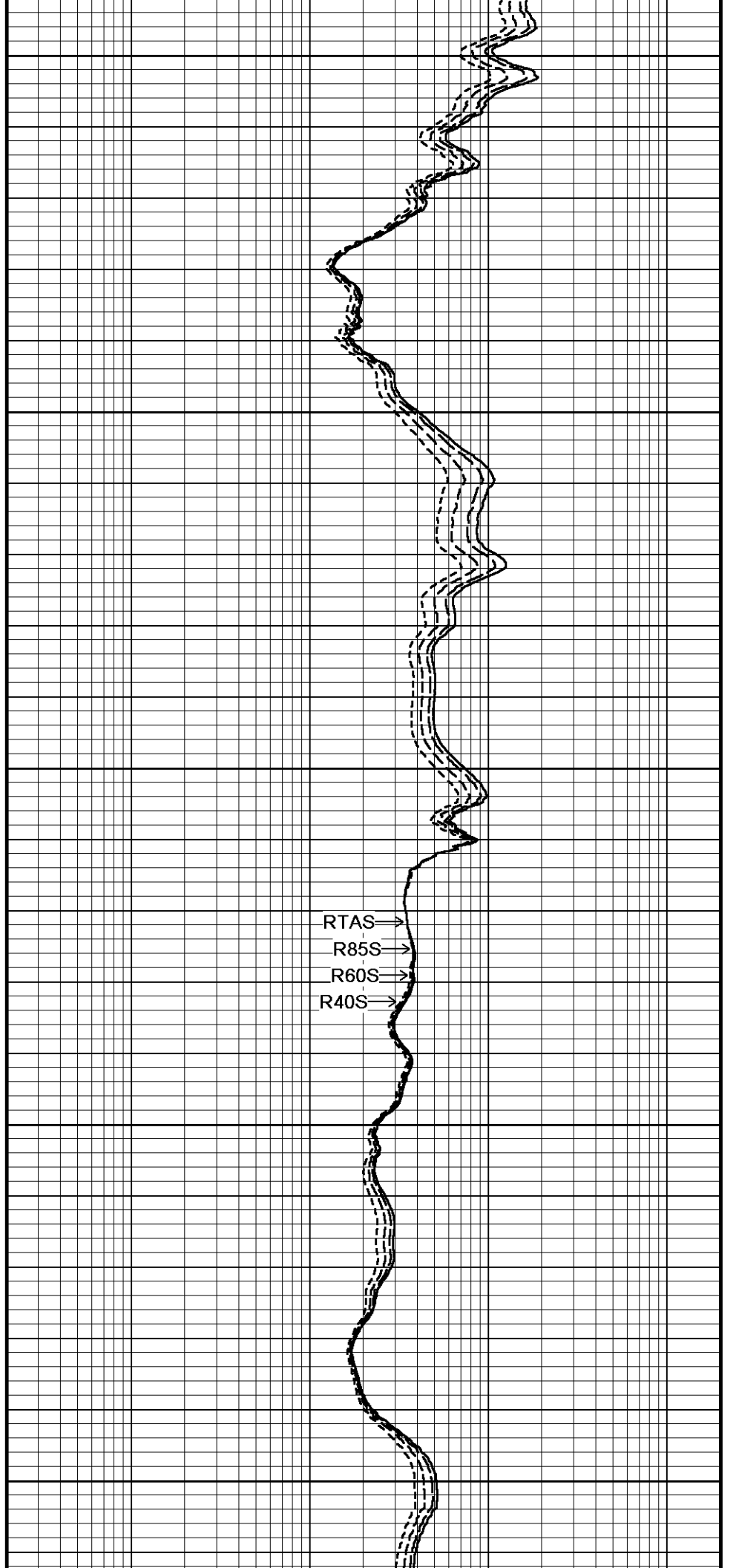


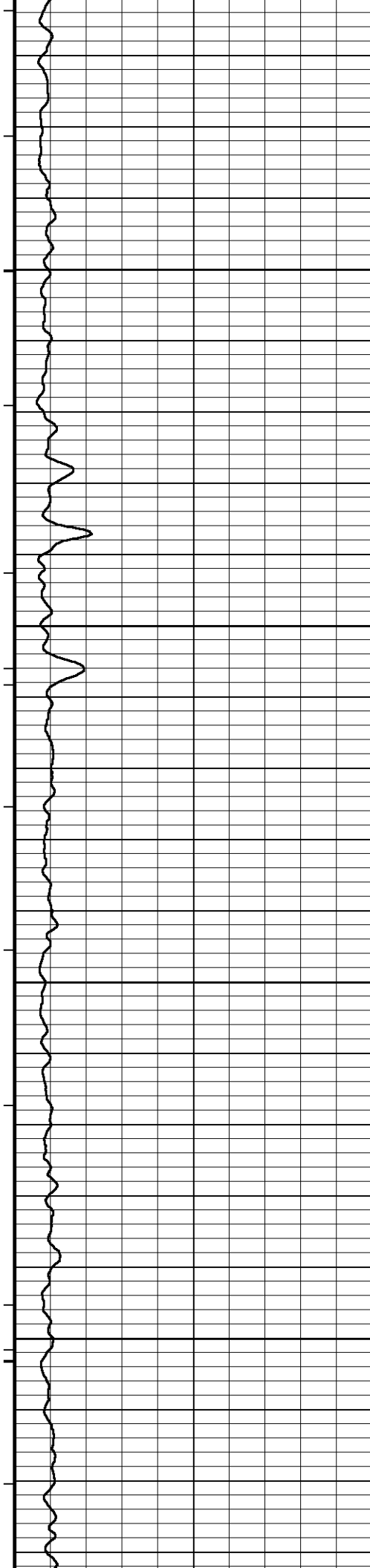
127°

127°

127°

127°





128°

8650

128°

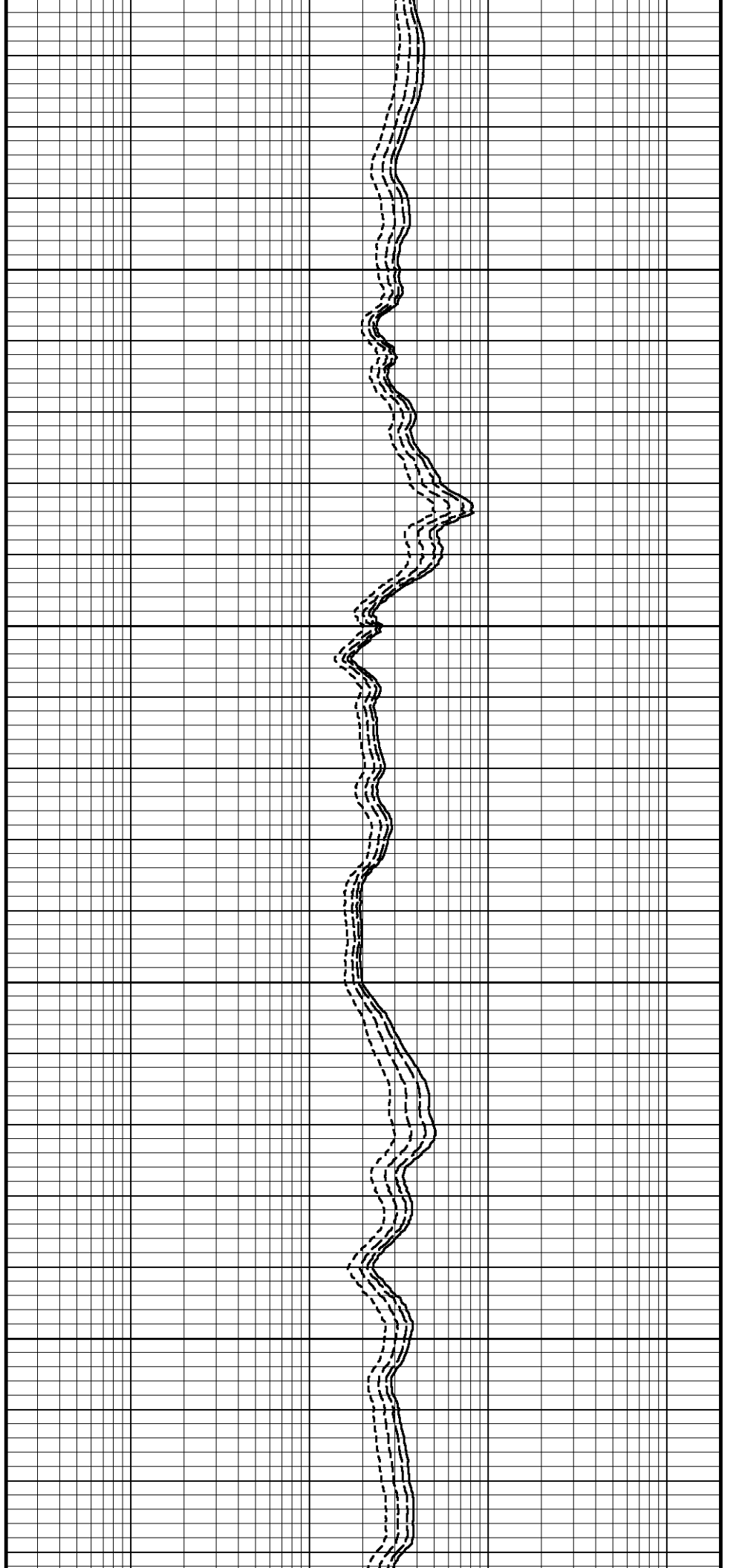
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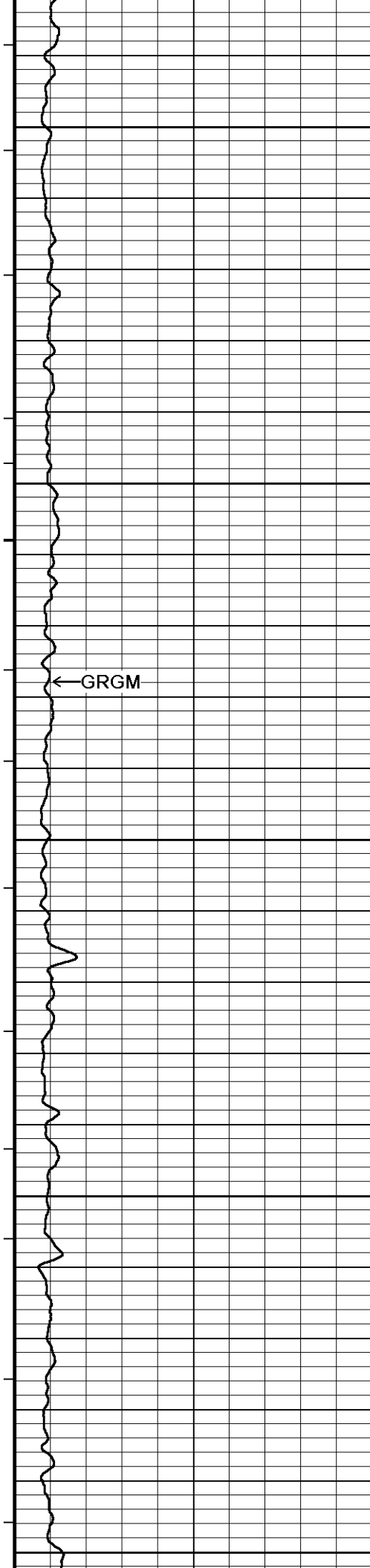
128°

8750

128°

8800





128°

8850

128°

8900

128°

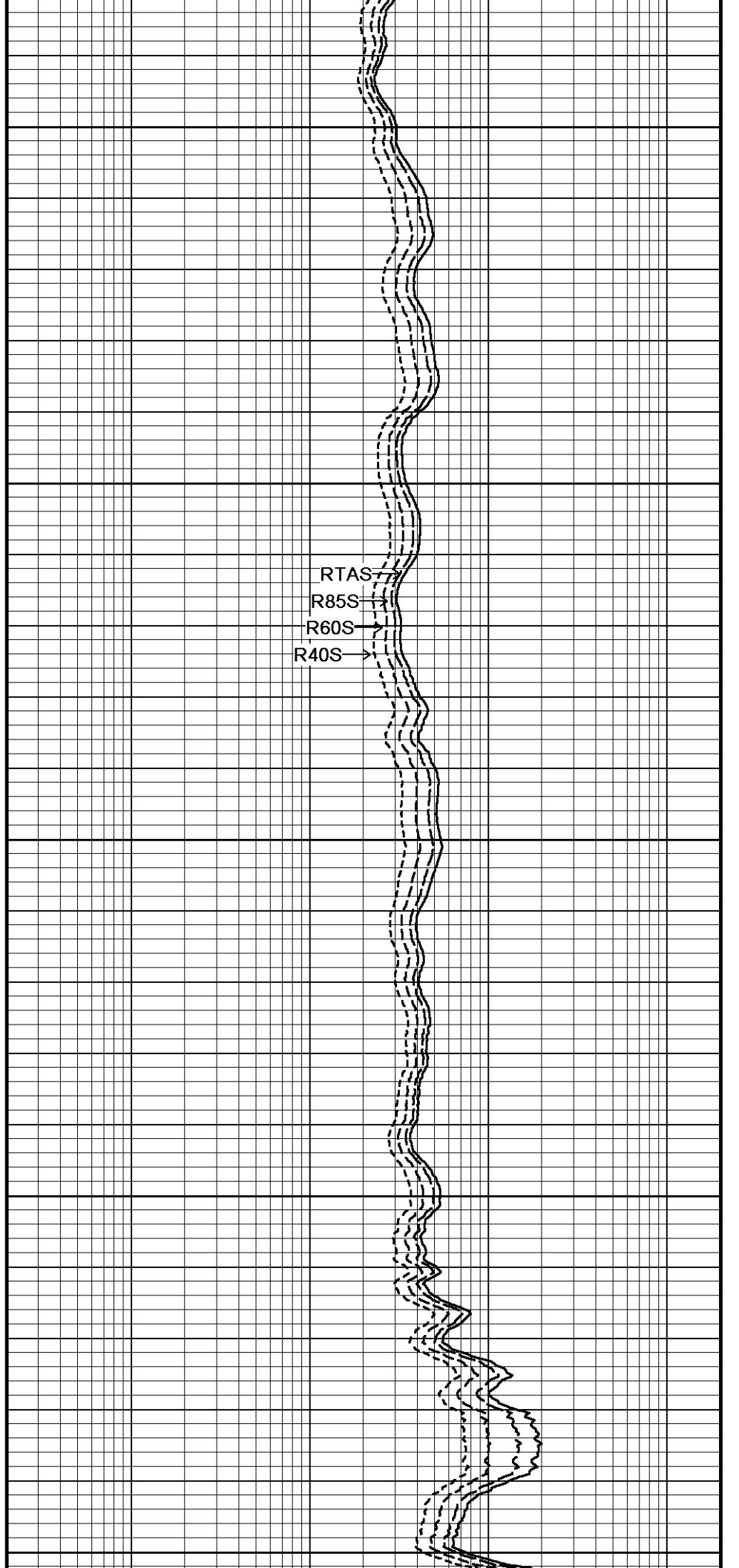
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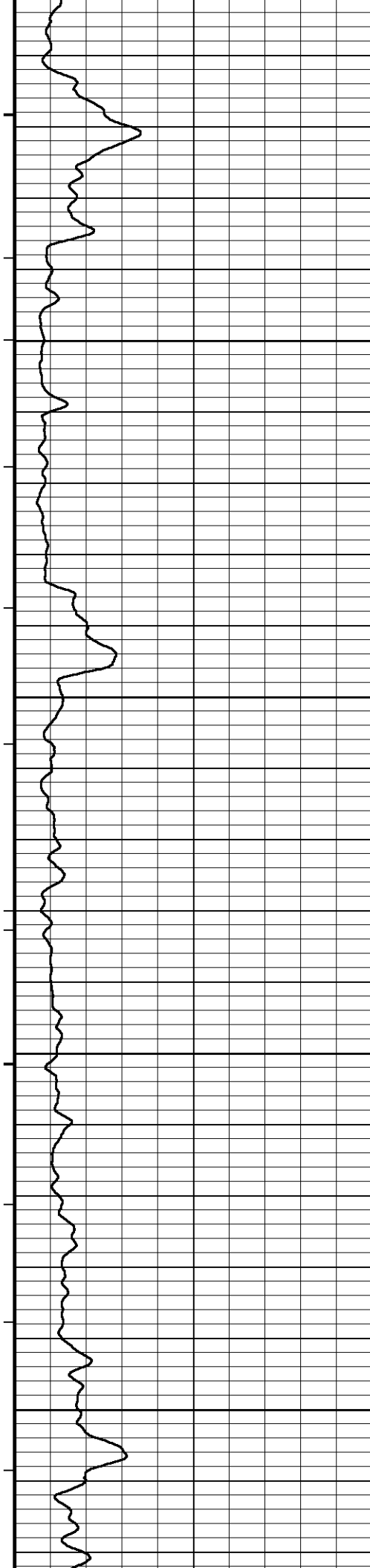
128°

9000

128°

9050





128°

9100

128°

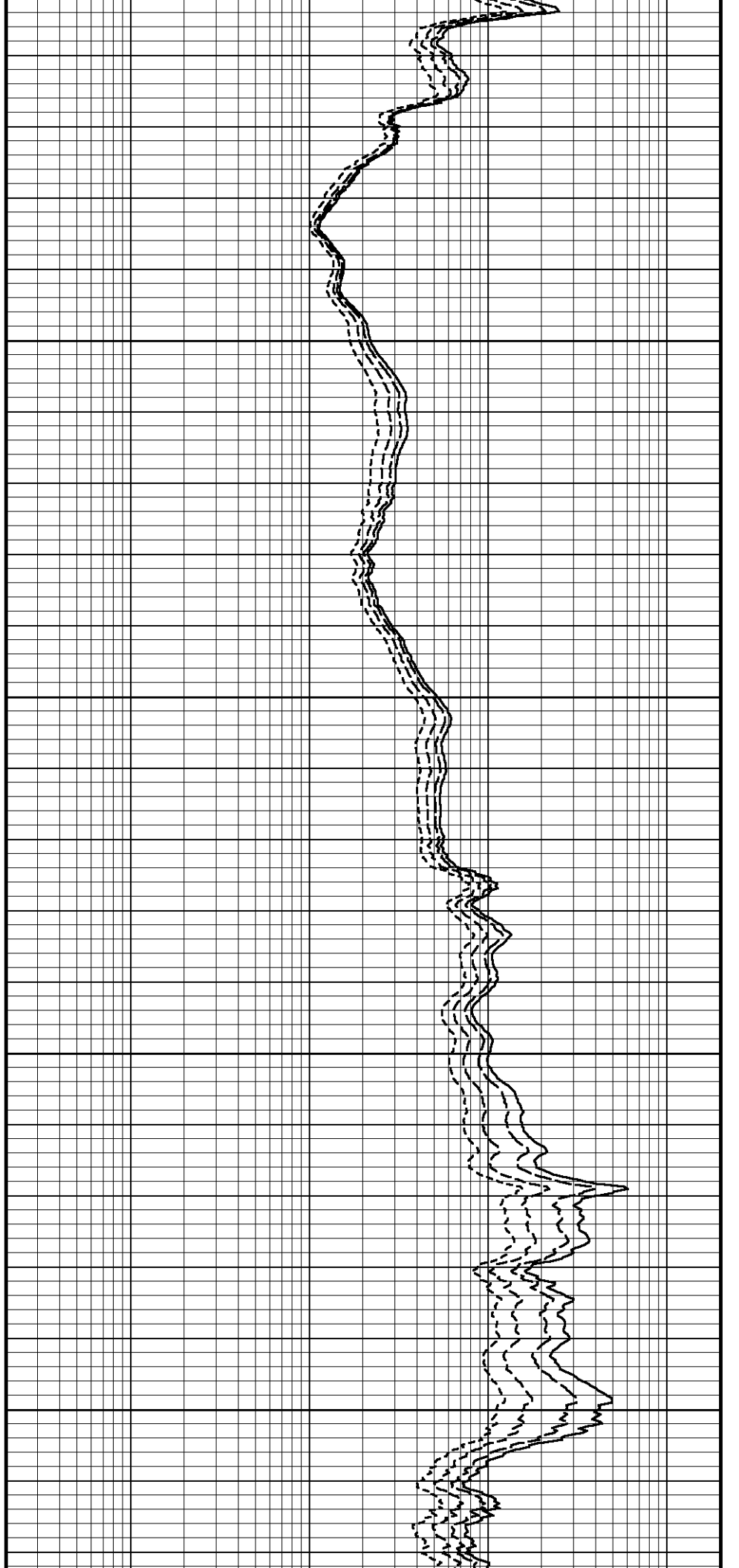
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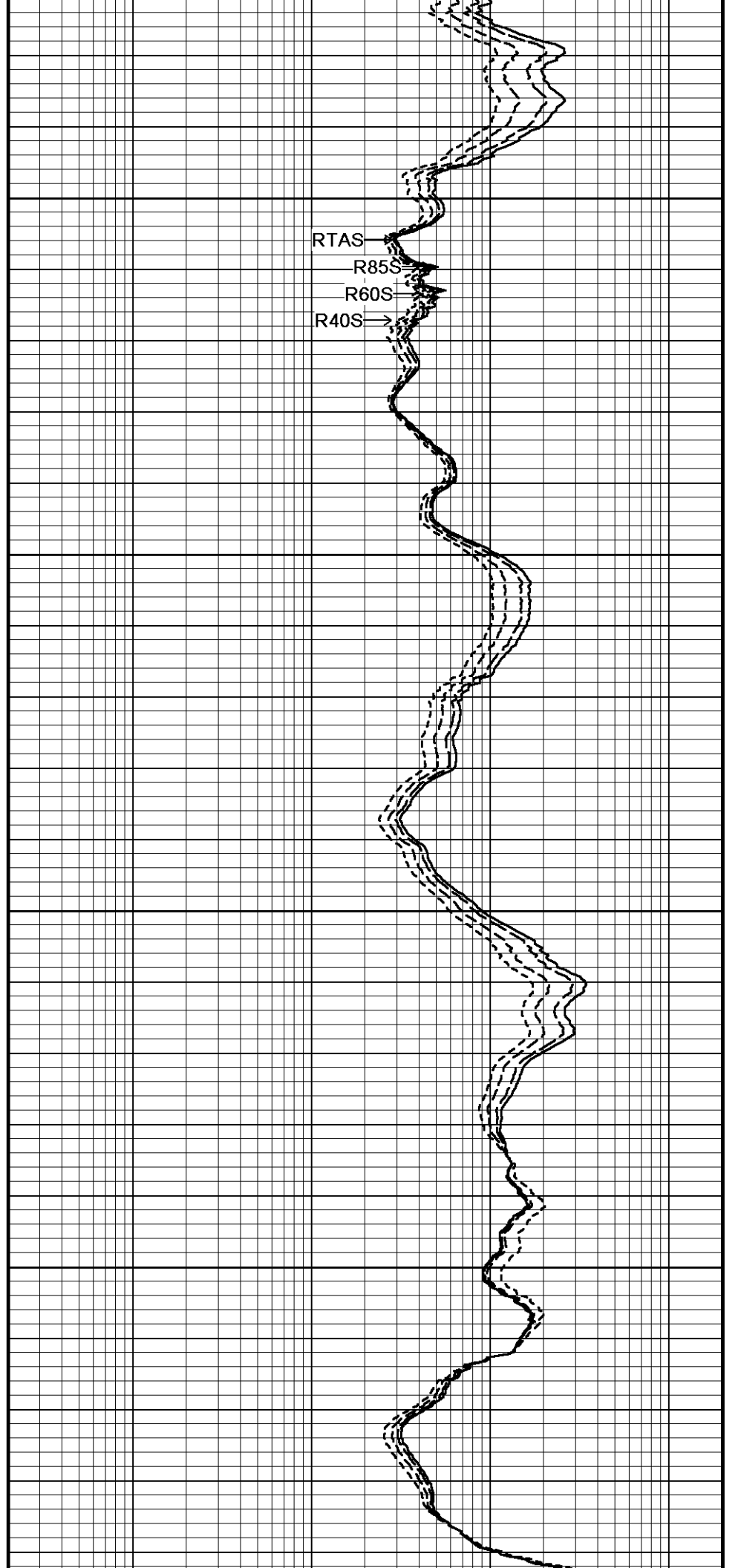
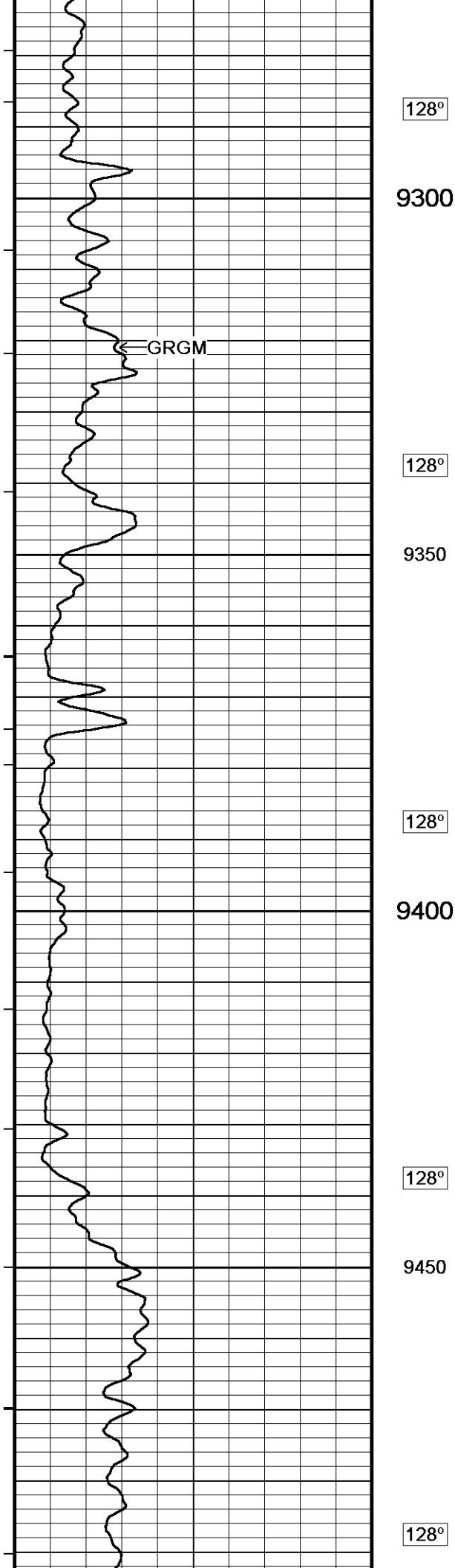
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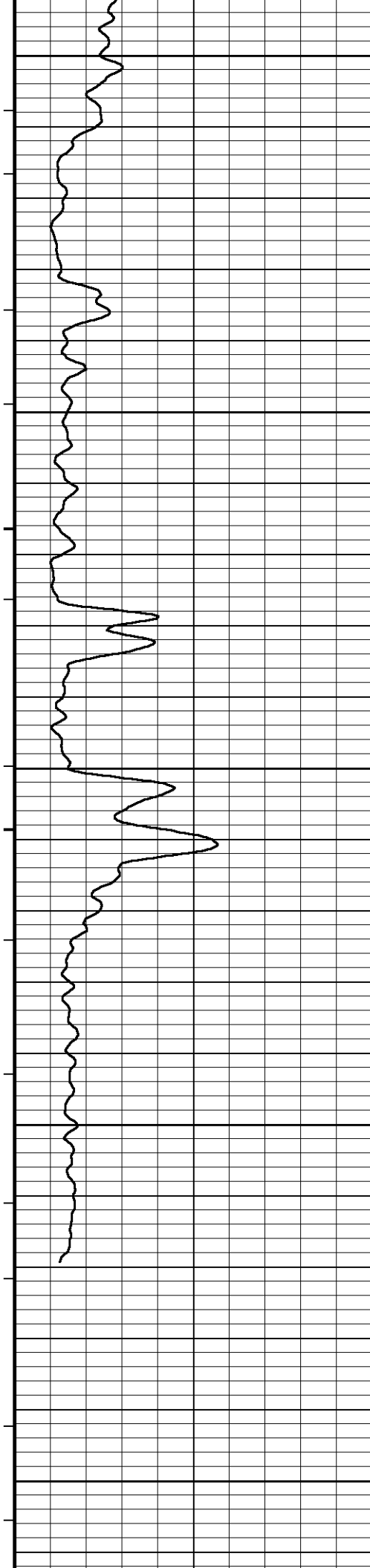
9200

128°

9250







9500

128°

9550

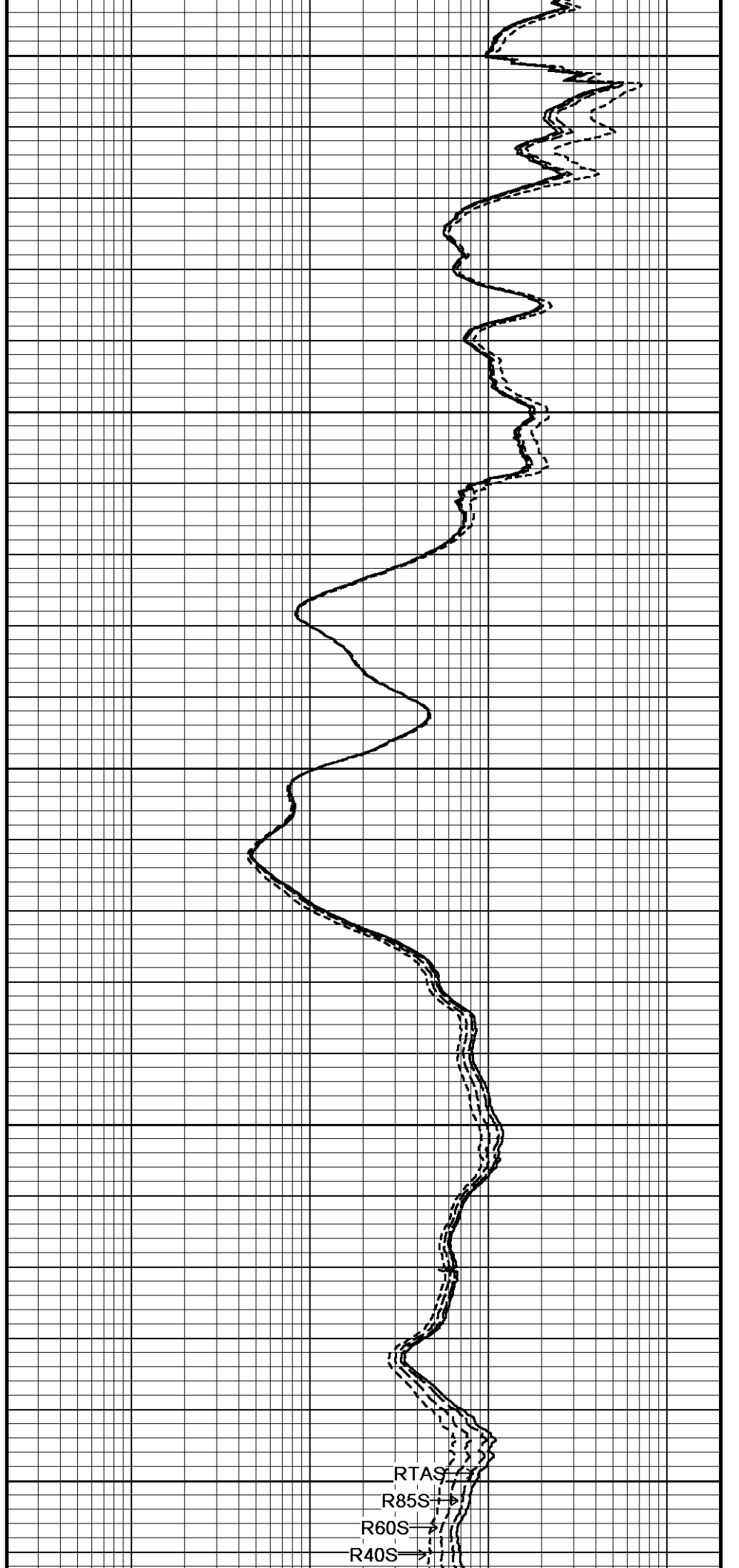
128°

9600

128°

9650

9700

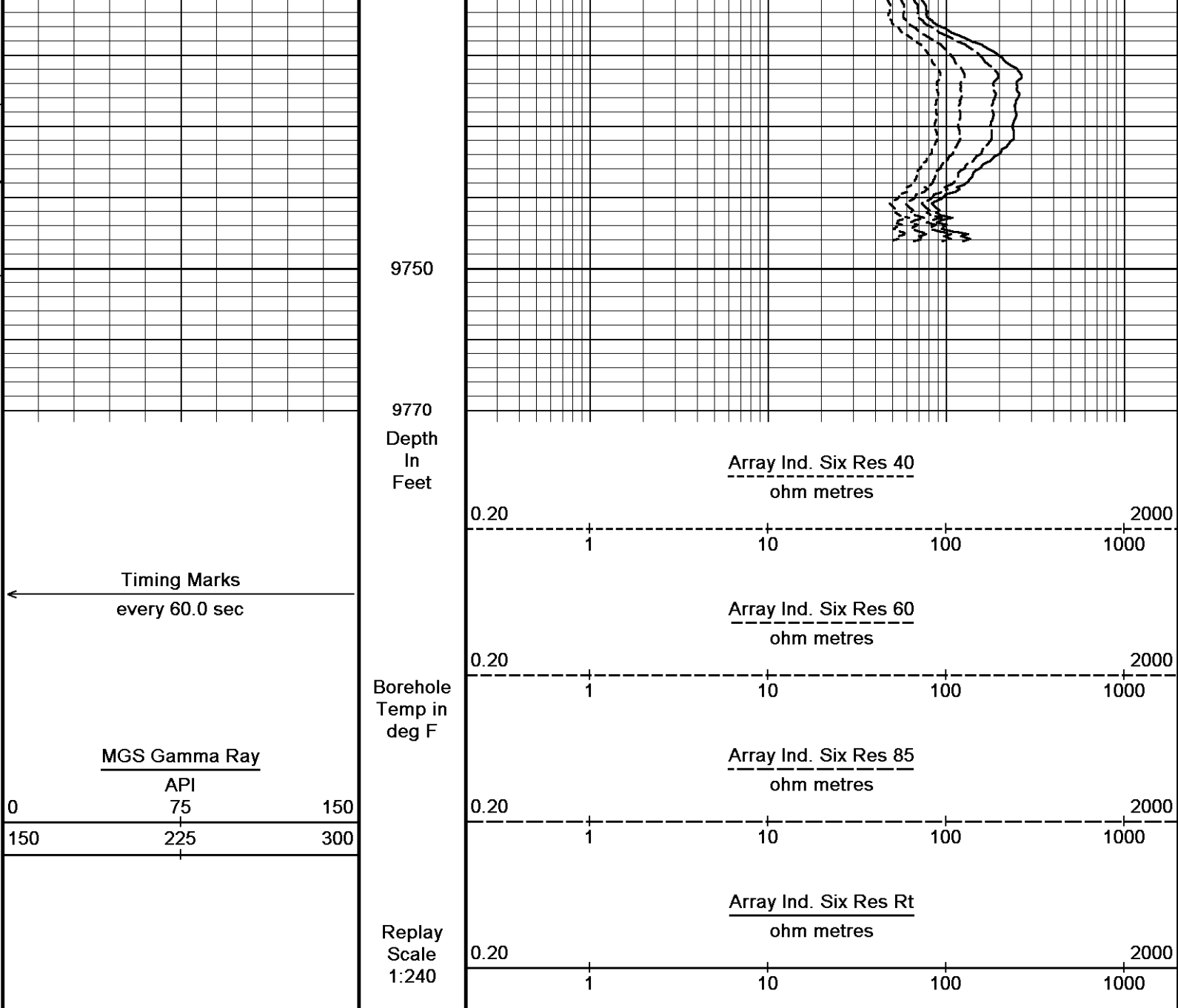


RTAS

R85S

R60S

R40S



Depth Based Data - Maximum Sampling Increment 10.0cm
Filename: C:\DATA_13_04_8492\SANDRIDGE STAGECOACH 1-14H\Stagecoach rtap depth2.dta
System Versions: Processed with 13.04.8492 Plotted with 13.04.8492

5 INCH MAIN LOG

BEFORE SURVEY CALIBRATION
C:\DATA_13_04_8492\SANDRIDGE STAGECOACH 1-14H\Stagecoach rtap depth2.dta

General Constants All 000
Last Edited on 23-DEC-2012,04:06

General Parameters		
Mud Resistivity	0.680	ohm-metres
Mud Resistivity Temperature	71.000	degrees F
Water Level	0.000	feet
Borehole Fluid 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	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 133

Last Edited on 07-DEC-2012,11:16

Atmospheric Pressure	14.70	psi
Serial Number	241946	
Calibration Date	09-JUL-08	
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	0.069	0.073
3000.0	5.240	5.253
6000.0	10.422	10.442
9000.0	15.616	15.637
12000.0	20.827	20.839
15000.0	26.051	26.060

SP Calibration MGS-C.J 142

Field Calibration on 16-DEC-2012,20:48

	Measured	Calibrated (mV)
Reference 1	100.0	100.0
Reference 2	-100.0	-100.0

High Resolution Temperature Calibration MGS-C.J 142

Field Calibration on 16-DEC-2012,20:48

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

High Resolution Temperature Constants MGS-C.J 142

Last Edited on 16-DEC-2012,20:48

Pre-filter Length	11
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Gamma Calibration MGS-C.J 142

Field Calibration on 20-DEC-2012 14:04

	Measured	Calibrated (API)
Background	62	46
Calibrator (Gross)	1258	942
Calibrator (Net)	1196	896

Gamma Constants MGS-C.J 142

Last Edited on 17-DEC-2012,18:43

Gamma Calibrator Number	036
Mud Density	1.00
Caliper Source for Processing	Density Caliper
Tool Position	Eccentred
Concentration of KCl	0.00

Neutron Calibration MDN-B.J 391

Base Calibration on 05-DEC-2012 10:55

Field Check on 20-DEC-2012 13:59

Base Calibration		
	Measured	Calibrated (cps)
	Near	Far
	3136	95
Ratio	32.997	33.764
Field Calibrator at Base		
	Calibrated (cps)	
	2329	3423
Ratio		0.680
Field Check		
	Calibrated (cps)	
	2327	3414
Ratio		0.683

Neutron Constants MDN-B.J 391

Last Edited on 20-DEC-2012,13:55

Neutron Source Id	N1055
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Neutron Jig Number	N639		
Epithermal Neutron	No		
Caliper Source for Processing	Density Caliper		
Stand-off	0.00	inches	
Mud Density	1.00	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	MGS External Temperature		
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		

Accelerometer Parameters MIE-A.A 209				
Date Of Last Accelerometer Calibration	22-NOV-2010,09:26			
	X Accelerometer	Y Accelerometer	Z Accelerometer	
Slope	-1.113214	-1.109979	-1.101653	
Offset	0.005467	0.005399	0.010368	

Accelerometer Constants MIE-A.A 209			Last Edited on 01-NOV-2012,11:04		
Accelerometer Calibrator Number		000			
Accelerometer Temperature Characterisation					
X Accelerometer					
Serial Number		826			
Calibration Date		18-Mar-2009			
	B0	B1	B2	B3	
Bias(g)	0.00000e+000	2.32377e-005	-1.87334e-008	9.07324e-011	
	SF0	SF1	SF2	SF3	
Scale Factor(mA/g)	3.00000e+000	2.71389e-004	4.55326e-007	4.58364e-010	
Y Accelerometer					
Serial Number		617			
Calibration Date		11-May-2008			
	B0	B1	B2	B3	
Bias(g)	0.00000e+000	1.76675e-005	6.93464e-010	2.98691e-011	
	SF0	SF1	SF2	SF3	
Scale Factor(mA/g)	3.00000e+000	2.56882e-004	5.72598e-007	2.37496e-010	
Z Accelerometer					
Serial Number		844			
Calibration Date		20-Mar-2009			
	B0	B1	B2	B3	
Bias(g)	0.00000e+000	-1.21769e-005	-1.46867e-008	-6.44015e-011	
	SF0	SF1	SF2	SF3	
Scale Factor(mA/g)	3.00000e+000	2.73539e-004	4.65657e-007	2.88996e-010	

Caliper Calibration MIE-A.A 209					Base Calibration on 01-NOV-2012 11:15
					Field Calibration on
Base Calibration					
Reading No	Pads 1-5 Meas.	Pads 3-7 Meas.	Calibrator Size (in)		
1	27539	27183	5.96		
2	37417	37822	7.98		
3	47722	47889	9.94		
4	58629	58915	11.90		
5	0	0	0.00		
Reading No	Pad 2 Meas.	Pad 4 Meas.	Pad 6 Meas.	Pad 8 Meas.	Calibrator Size (in)
1	24721	25004	25023	25995	5.96
2	33682	34183	33040	34247	7.98
3	42423	42654	41565	43051	9.94
4	52069	52344	50876	52199	11.90
5	0	0	0	0	0.00

Field Calibration					
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Measured Pads 1-5 Caliper(in) 0.00		Measured Pads 3-7 Caliper(in) 0.00		Actual Caliper(in) 0.00	
Measured Pad 2 Caliper(in) 0.00		Measured Pad 4 Caliper(in) 0.00		Measured Pad 6 Caliper(in) 0.00	
				Measured Pad 8 Caliper(in) 0.00	
				Actual Caliper(in) 0.00	
Caliper Constants MIE-A.A 209					
Caliper Difference for BRKT					0.120 inches
Magnetometer Parameters MIE-A.A 209					
Date Of Last Magnetometer Calibration		31-JAN-2011,14:54			
X Magnetometer		Y Magnetometer		Z Magnetometer	
Slope	-1.000000			-1.010431	
Offset	0.007616			0.012246	
Magnetometer Constants MIE-A.A 209					Last Edited on
Magnetometer Calibrator Number		000			
Navigation Constants MIE-A.A 209					Last Edited on
Magnetic Declination		0.00	degrees	East	
Compact Micro Imager Constants MIE-A.A 209					Last Edited on
Sonde Configuration		Imager Mode			
Arm-Pad Kit		Normal Pads (12.25 in)			
Arm-Pad Kit Serial Number					
Centre Pad 1 Rotational Offset		0.00	degrees		
Image/Borehole Ovality Reference		Azimuth of Pad 1			
Non Active Buttons		Omit			
Search Angle		0.00	degrees		
Correlation Interval		1.00	metres		
Correlation Step		0.50	metres		
Current Offset		0.0000	mAmp		
Squasher Start		0.0500	mAmp		
Image Processing		Enabled			
High Resolution Temperature Calibration MAI-A.A 170					Field Calibration on 16-DEC-2012,20:31
		Measured		Calibrated(Deg F)	
Lower		0.00	10.00		
Upper		100.00	100.00		
High Resolution Temperature Constants MAI-A.A 170					Last Edited on 16-DEC-2012,20:31
Pre-filter Length		11			
Induction Calibration MAI-A.A 170					Base Calibration on 02-FEB-2012 17:42 Field Check on 20-DEC-2012 13:48
Base Calibration					
Test Loop Calibration		Measured		Calibrated (mmho/m)	
Channel	Low	High	Low	High	
1	17.7	487.1	9.3	966.2	
2	6.2	384.7	7.6	821.4	
3	3.7	266.1	5.2	566.0	
4	2.2	136.5	2.6	279.2	
Array Temperature		72.1	Deg F		
Channel		Base Check (mmho/m)		Field Check (mmho/m)	
	Low	High	Low	High	
1			9.5	3750.1	
2			29.2	3528.3	
3			27.0	2996.2	
4			18.4	2042.1	
Deep			15.3	1904.7	
Medium			40.7	3980.2	
Shallow			45.3	5289.5	

Induction Constants MAI-A.A 170

Last Edited on 23-DEC-2012,04:07

Induction Model		RtAP-WBM	
Caliper for Borehole Corr.		Bit Size	
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	

Photo Density Calibration MPD-C.J 394

Base Calibration on 30-NOV-2012 14:19

Field Check on 20-DEC-2012 13:55

Density Calibration				
Base Calibration		Measured		Calibrated (sdu)
		Near	Far	Near Far
Reference 1	52205	25850	59869	31110
Reference 2	21506	2495	24557	2522
Field Check at Base				
	1068.5	1313.0		
Field Check				
	1064.8	1306.3		
PE Calibration				
Base Calibration		Measured		Calibrated
	WS	WH	Ratio	Ratio
Background	192	949		
Reference 1	21177	52026	0.411	0.369
Reference 2	5965	21378	0.283	0.271
Field Check at Base				
	192.1	948.9		
Field Check				
	192.1	946.8		

Density Constants MPD-C.J 394

Last Edited on 07-DEC-2012,17:47

Density Source Id 226

Density Source Id	236	
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	1.01	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 (m)
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	0.00

Caliper Calibration MPD-C.J 394

Base Calibration on 30-NOV-2012 13:50
Field Calibration on 07-DEC-2012 10:55

Base Calibration

Reading No	Measured	Calibrator Size (in)
1	17171	4.02
2	25264	6.00
3	33668	8.03
4	42205	10.02
5	51088	12.01
6	N/A	N/A

Field Calibration

Measured Caliper (in)	Actual Caliper (in)
5.99	6.00

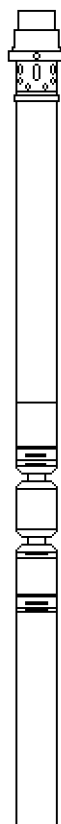
DOWNHOLE EQUIPMENT

C:\DATA_13_04_8492\SANDRIDGE STAGECOACH 1-14H\Stagecoach rtap depth2.dta

Shuttle Running Tool 3.5")
SRT-A.A 41 LG: 6.62 ft WT: 37.5 lb OD: 2.52 in

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

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



Spacer
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 119 LG: 17.06 ft WT: 123.5 lb OD: 2.24 in

Compact Memory Sub E.B
MMS-E.B 133 LG: 5.20 ft WT: 37.5 lb OD: 2.24 in

Compact Tool Isolator sub.
MTI-B.A 76 LG: 1.54 ft WT: 13.2 lb OD: 2.24 in

Compact Short Gamma
MGS-C.J 142 LG: 3.41 ft WT: 24.3 lb OD: 2.24 in

Compact Collar Locator
MCL-B.J 63 LG: 3.17 ft WT: 26.5 lb OD: 2.24 in



83.57 ft GRGM - MGS Gamma Ray

81.59 ft GSXT - MGS External Temperature

SKJ-E.B Compact Knuckle Joint

SKJ-E.B 479 LG: 2.17 ft WT: 24.3 lb OD: 2.24 in

SHA-J.A Compact Swivel Head Adaptor

SHA-J.A 451 LG: 2.30 ft WT: 22.0 lb OD: 2.24 in

MIS-D.B Compact Inline Bowspring sub

MIS-D.B 608 LG: 5.70 ft WT: 33.1 lb OD: 2.24 in

Compact Neutron

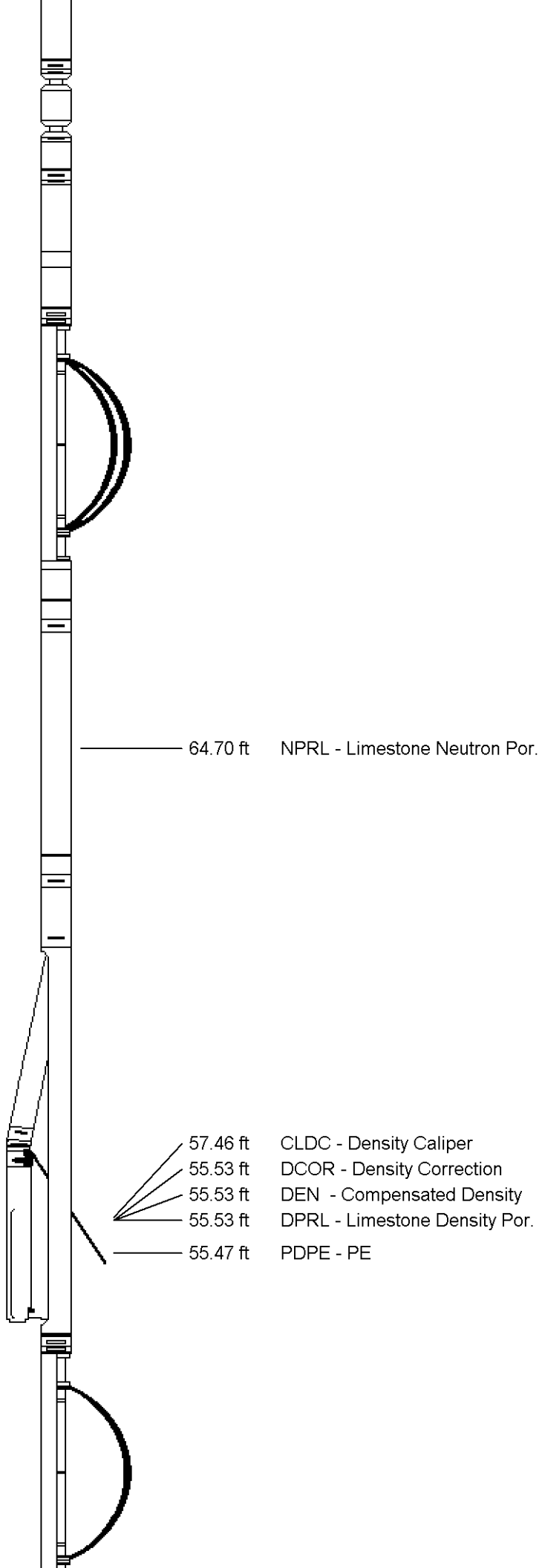
MDN-B.J 391 LG: 5.04 ft WT: 50.7 lb OD: 2.24 in

Compact Density/Caliper

MPD-C.J 394 LG: 9.59 ft WT: 90.4 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



SHA-J.A Compact Swivel Head Adaptor
SHA-J.A 438 LG: 2.30 ft WT: 22.0 lb OD: 2.24 in

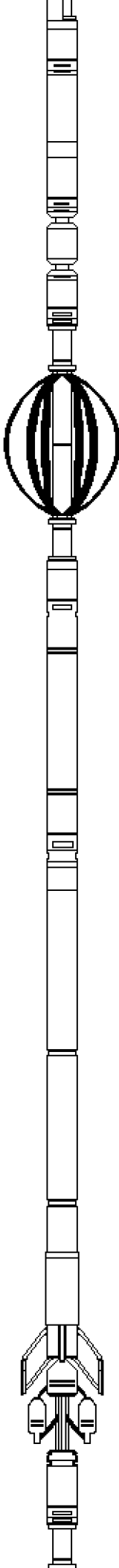
SKJ-E.B Compact Knuckle Joint
SKJ-E.B 478 LG: 2.17 ft WT: 24.3 lb OD: 2.24 in

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

Compact MMI Memory Section
MIM-B.A 251 LG: 4.65 ft WT: 26.5 lb OD: 2.24 in

Compact MMI Electrode Section
MIE-A.A 209 LG: 13.96 ft WT: 99.2 lb OD: 4.09 in

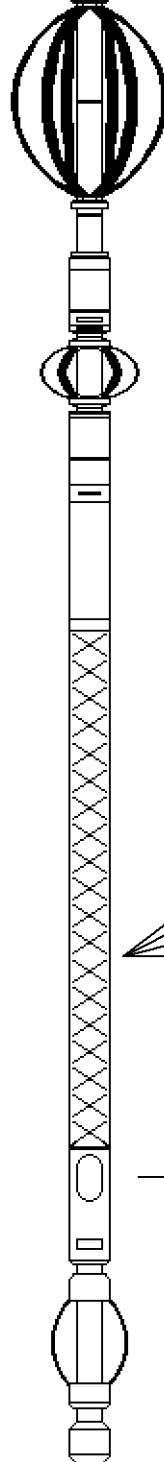
MIS-D.B Compact Inline Bowspring sub



MIS-D.B 605 LG: 5.70 ft WT: 33.1 lb OD: 2.24 in

MIS-E.B Compact Inline Standoff sub
MIS-E.B 597 LG: 2.14 ft WT: 15.4 lb OD: 2.24 in

Compact Induction
MAI-A.A 170 LG: 12.52 ft WT: 48.5 lb OD: 2.24 in



3.34 ft R40S - Array Ind. Six Res 40
3.34 ft R60S - Array Ind. Six Res 60
3.34 ft R85S - Array Ind. Six Res 85
3.34 ft RTAS - Array Ind. Six Res Rt

Tool Zero (1.84ft from bottom)

Total Length: 147.25 ft Weight: 903.9 lb

All measurements relative to tool zero.

COMPANY	Sandridge Energy
WELL	Stagecoach 2925 1-14H
FIELD	Mineloa
PROVINCE/COUNTY	Ford
COUNTRY/STATE	U.S.A. / Kansas

Elevation Kelly Bushing	2639.00	feet	First Reading	9743.00	feet
Elevation Drill Floor	2639.00	feet	Depth Driller	9780.00	feet
Elevation Ground Level	2619.00	feet	Depth Logger	9780.00	feet



CML MESSENGER SHUTTLE

ARRAY INDUCTION

Weatherford®

CML MESSENGER SHUTTLE
ARRAY INDUCTION

COMPANY

Sandridge Energy
Stagecoach 2925 1-14H

WELL

Mineola

PROVINCE/COUNTY

Ford

COUNTRY/STATE

U.S.A. / Kansas

LOCATION

220' FSL & 355' FEL

SEC

220' FSL & 355' FEL

TYP

220' FSL & 355' FEL

TYP

220' FSL & 355' FEL

TYP

220' FSL & 355' FEL

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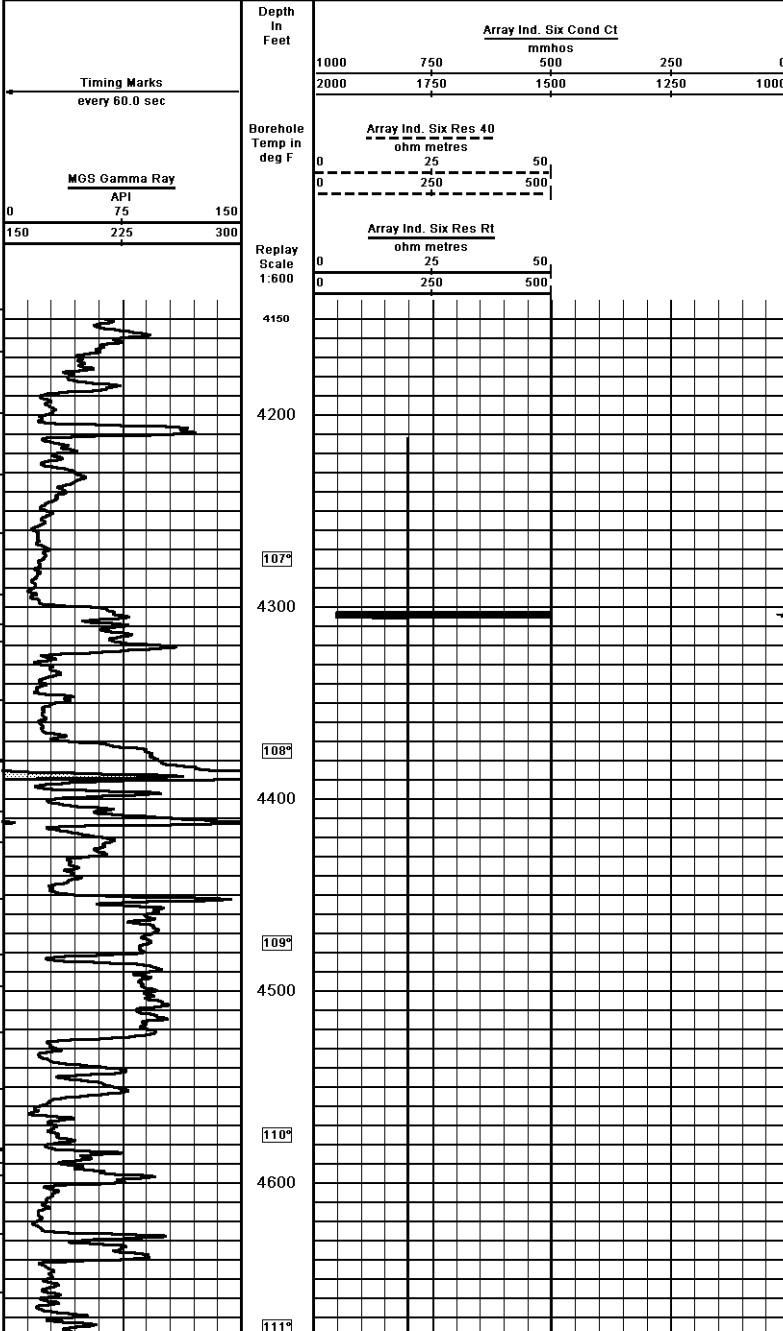
220' FSL & 355' FEL

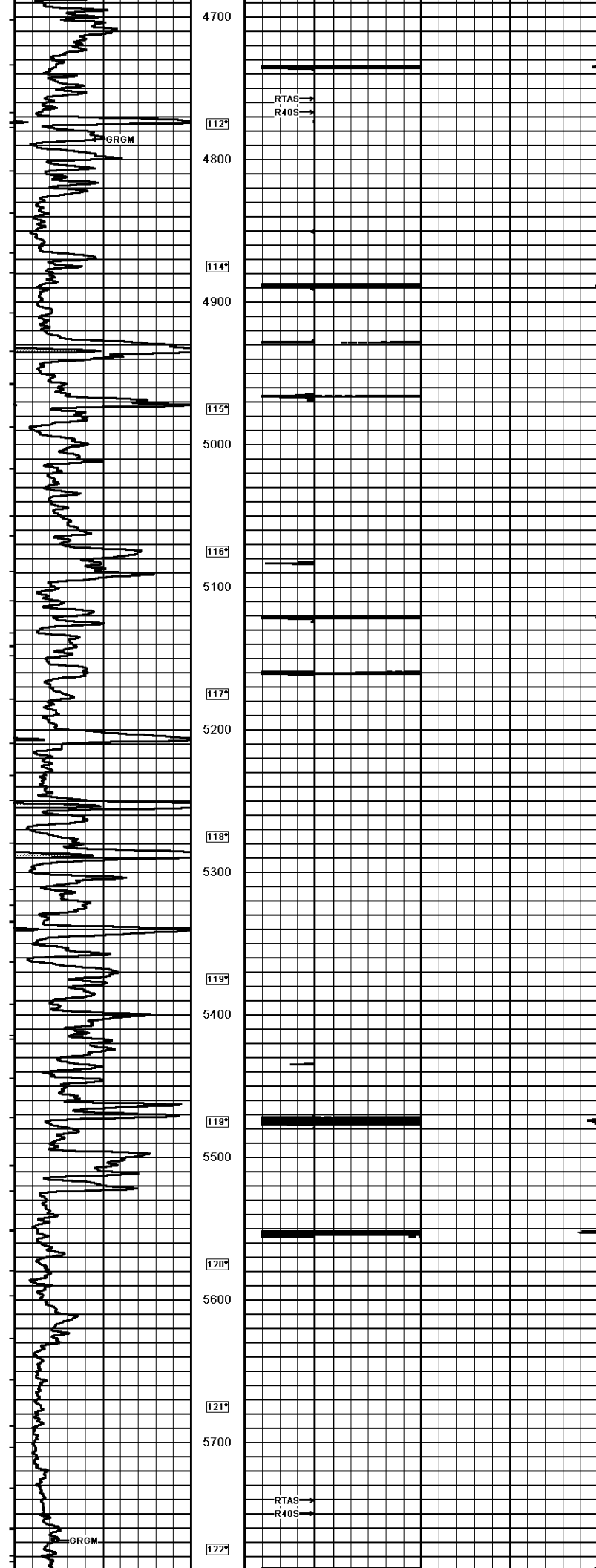
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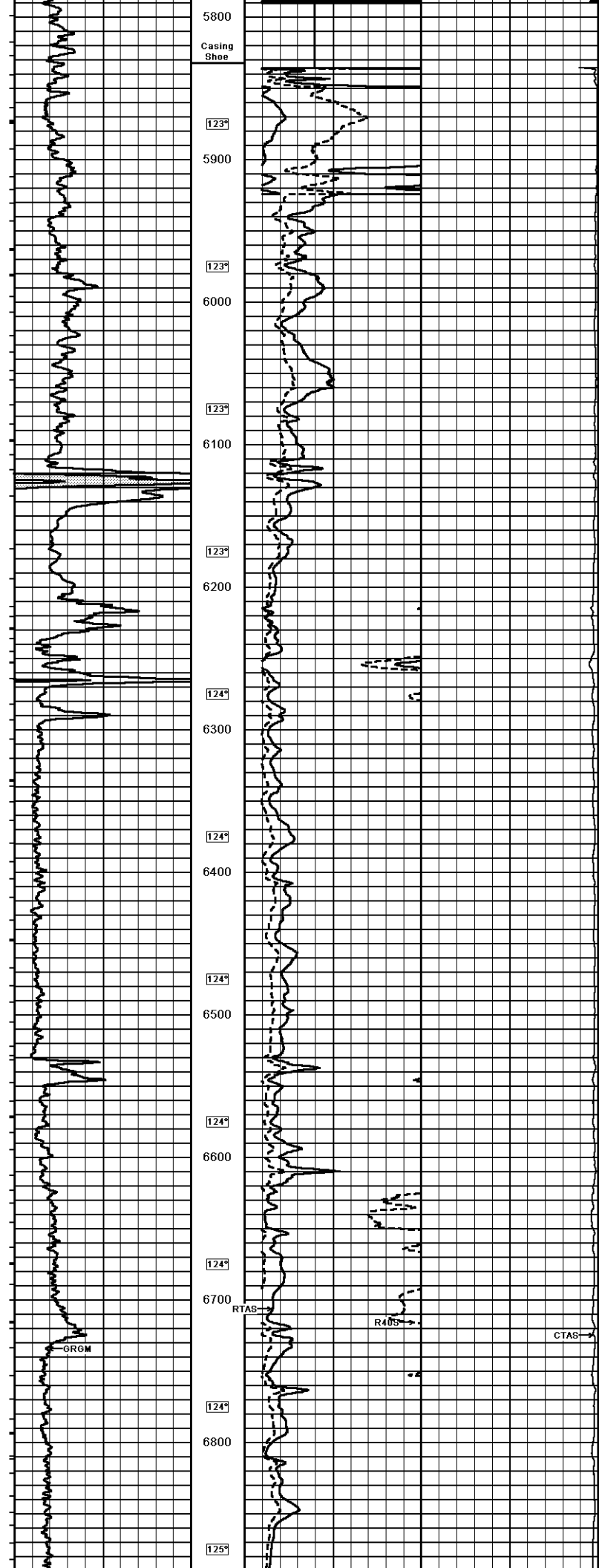
220' FSL & 355' FEL

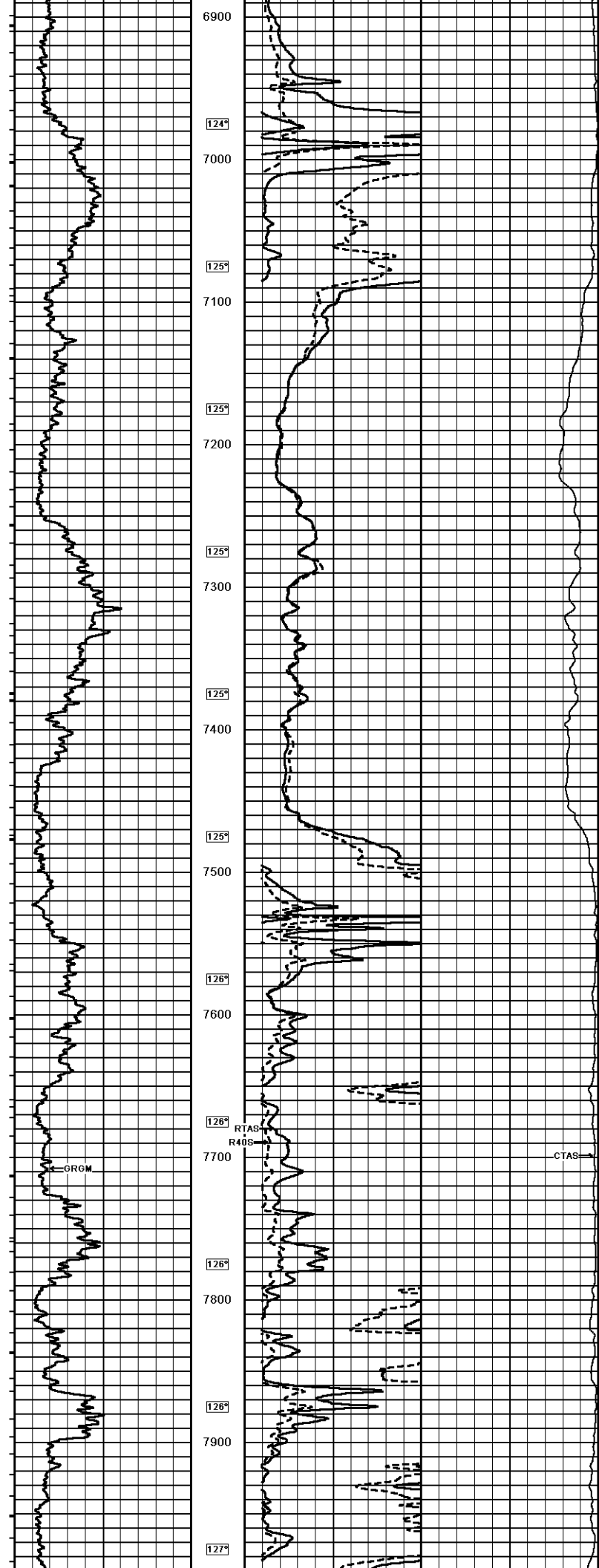
Permanent Datum O.L., Elevation 2619 feet
Log Measured From KB
Drilling Measured From K.B. @ 20' Feet
Date 22-DEC-2012
Run Number One
Service Order 3539522
Depth Driller 9780.00 feet
Depth Logger 9780.00 feet
First Reading 9743.00 feet
Last Reading 9832.00 feet
Casing Driller 5832.00 feet
Casing Logger 5832.00 inches
Bit Size 6.125
Hole Fluid Type WBM
Density/Viscosity 8.80 lbu/sq 31.00 CP
PH / Fluid Loss 9.50 9.50
Sample Source Flowline
Rm @ Measured Temp 0.68 @ 71.0 ohm-m
Rm @ Measured Temp 0.54 @ 71.0 ohm-m
Rm @ Measured Temp 0.82 @ 71.0 ohm-m
Source Rm / Rmc Calc
Rm @ BHT 0.38 @ 28.0 ohm-m
Time Since Circulation 1 hour
Max Recorded Temp 128.00 deg F
Equipment / Base 18077 OKC
Recorded By Steven Tobey
Witnessed By J. BorellElevations:
KB 2633.00
DF 2633.00
OL 2619.00

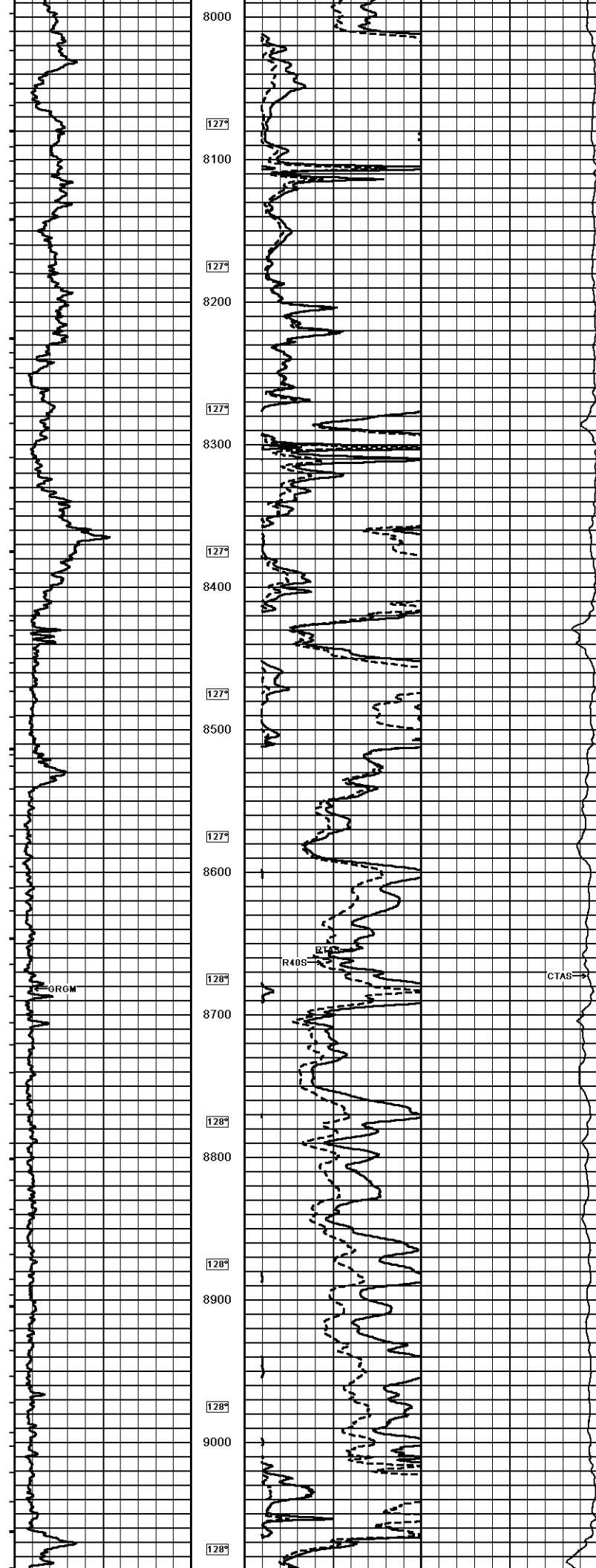
1 INCH MAIN LOG

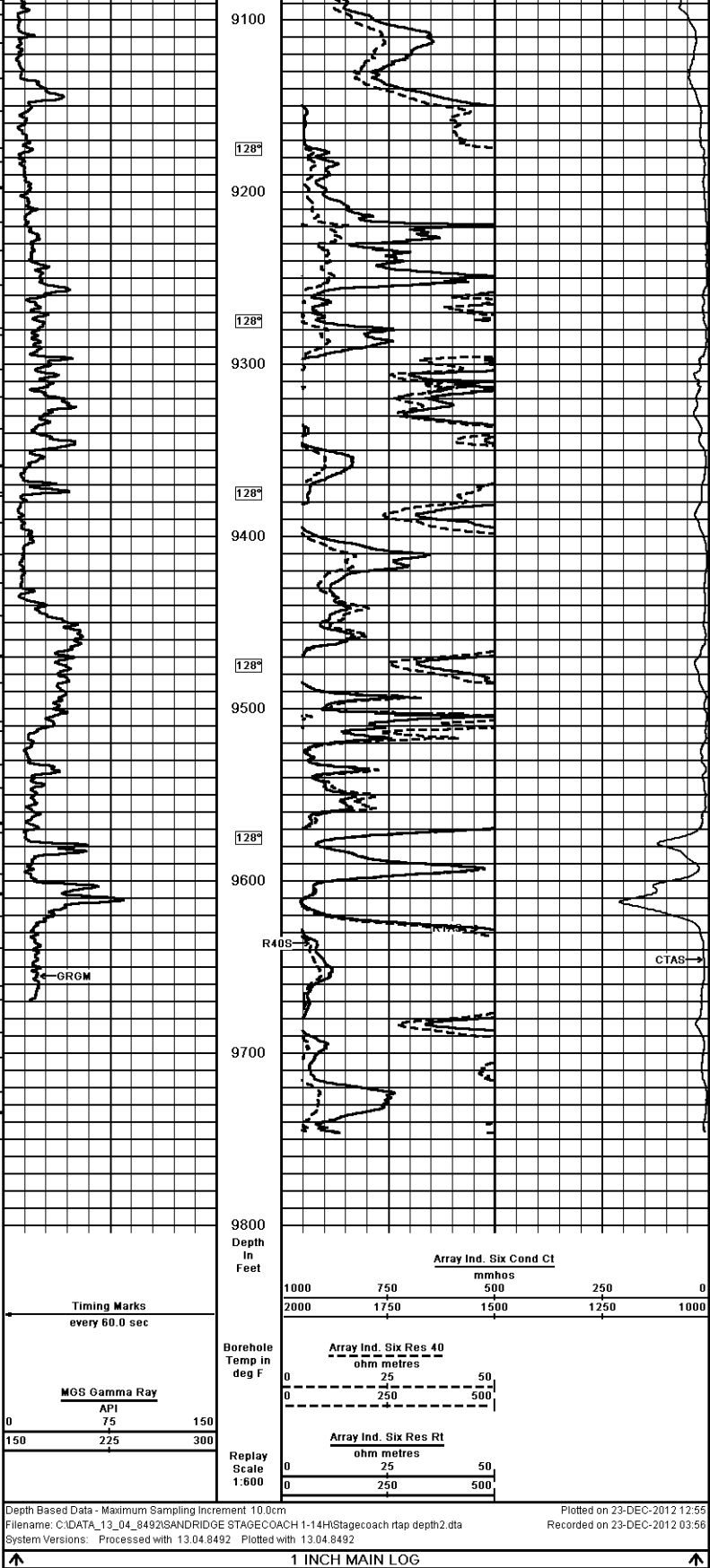
Depth Based Data - Maximum Sampling Increment 10.0cm
Plotted on 23-DEC-2012 12:55
Filename: C:\DATA_13_04_8492\SANDRIDGE STAGECOACH 1-14H\Stagecoach rtap depth2.dta
Recorded on 23-DEC-2012 03:56
System Versions: Processed with 13.04.8492 Plotted with 13.04.8492











COMPANY		Sandridge Energy			
WELL		Stagecoach 2925 1-14H			
FIELD		Mineloa			
PROVINCE/COUNTY		Ford			
COUNTRY/STATE		U.S.A. / Kansas			
Elevation Kelly Bushing	2639.00	feet	First Reading	9743.00	feet
Elevation Drill Floor	2639.00	feet	Depth Driller	9780.00	feet
Elevation Ground Level	2619.00	feet	Depth Logger	9780.00	feet
 CML MESSENGER SHUTTLE ARRAY INDUCTION					

