



Weatherford

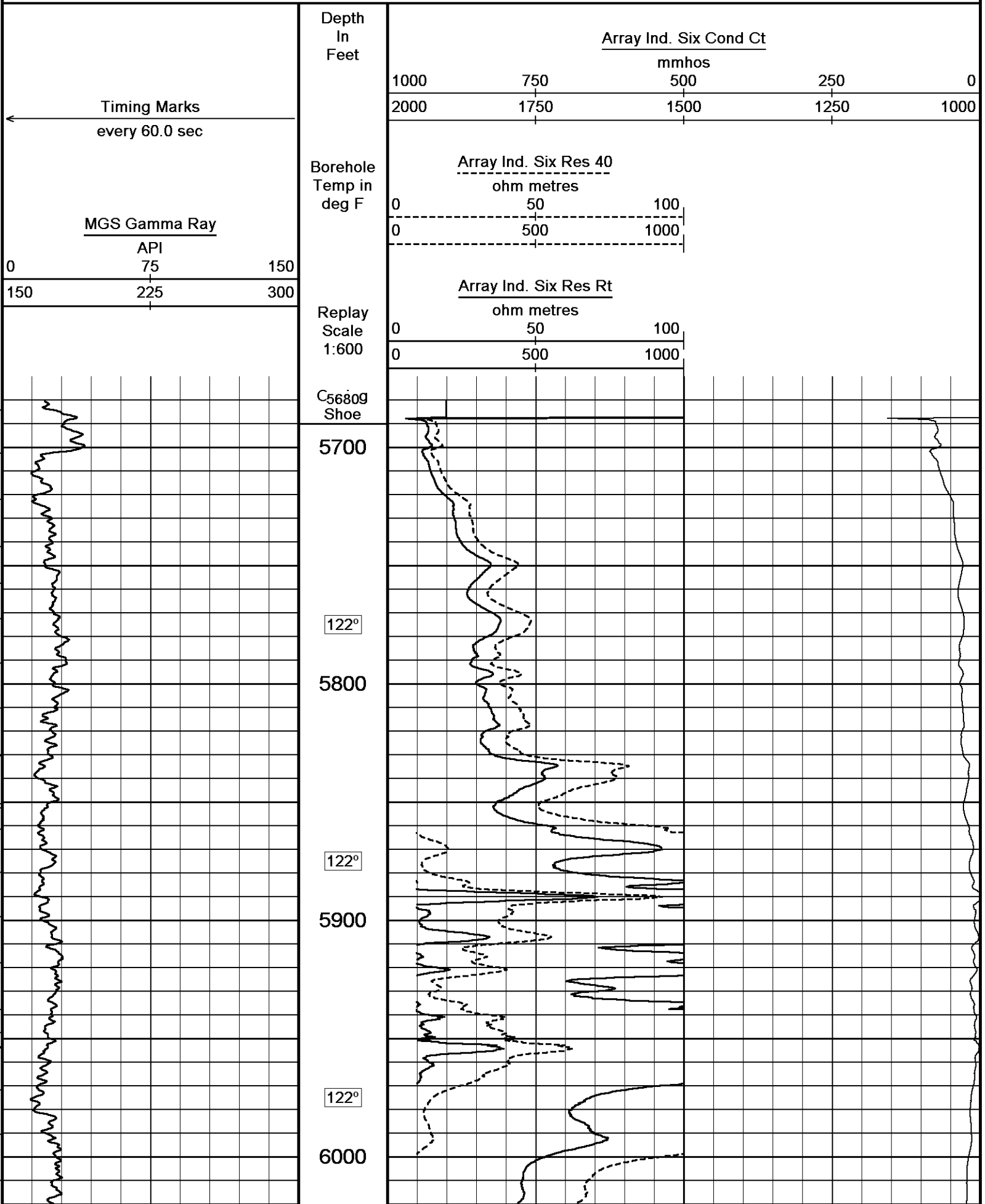
**CML MESSENGER SHUTTLE
ARRAY INDUCTION**

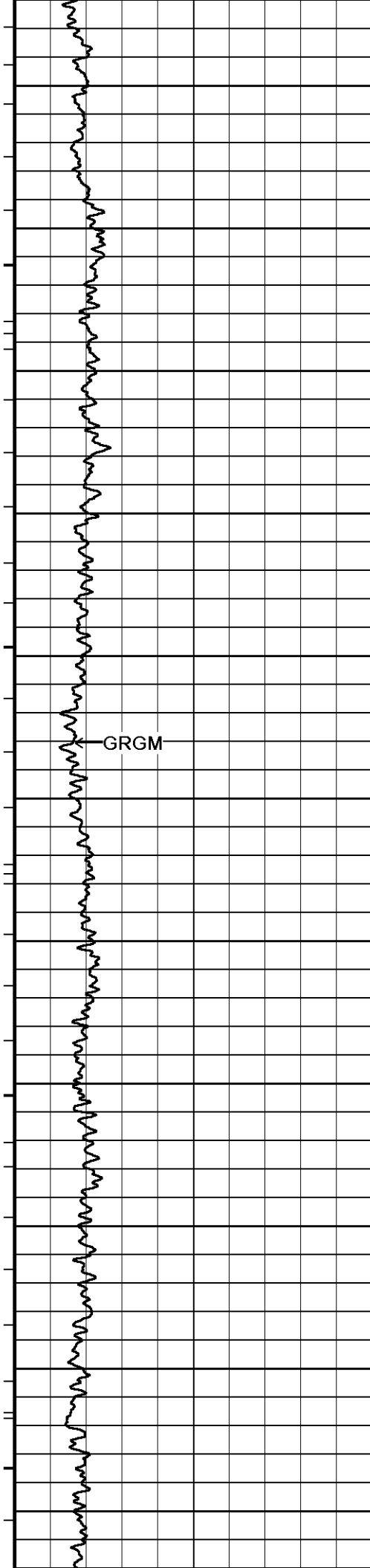
COMPANY		Sandridge Energy	
WELL		Elsey 3025 1-1H	
FIELD		Sabine Pass	
PROVINCE/COUNTY		Clark	
COUNTRY/STATE		U.S.A. / Kansas	
LOCATION		200' FNL & 660' FEL	
SEC	TWP	RGE	Other Services
1	30s	25w	CMI
API Number	15-025-21548		MPD/MDN
Permit Number			
Permanent Datum G.L., Elevation 2567 feet			Elevations: feet
Log Measured From KB			KB 2585.00
Drilling Measured From K.B. @ 18 feet			DF 2585.00
			GL 2567.00
Date	23-NOV-2012		
Run Number	One		
Depth Driller	9350.00		feet
Depth Logger	9350.00		feet
First Reading	9329.00		feet
Last Reading	5690.00		feet
Casing Driller	5690.00		feet
Casing Logger	5690.00		feet
Bit Size	6.125		inches
Hole Fluid Type	WBM		
Density / Viscosity	8.90 lb/USg	34.00 CP	
PH / Fluid Loss	10.00	7.80 ml/30Min	
Sample Source	Flowline		
Rm @ Measured Temp	1.31 @ 78.0		ohm-m
Rmf @ Measured Temp	1.05 @ 78.0		ohm-m
Rmc @ Measured Temp	1.57 @ 78.0		ohm-m
Source Rmf / Rmc	Calc	Calc	
Rm @ BHT	0.81 @125.0		ohm-m
Time Since Circulation	1 hour		
Max Recorded Temp	125.00		deg F
Equipment Name	Compact		
Equipment / Base	18077	OKC	
Recorded By	Steven Tolley		
Witnessed By	Maggie Roden		
S.O. # / AFE #	3538589		DC12282

BOREHOLE RECORD					Last Edited: 23-NOV-2012 15:42
Bit Size inches		Depth From feet		Depth To feet	
6.125		5690.00		9350.00	
CASING RECORD					
Type	Size inches	Depth From feet	Shoe Depth feet	Weight pounds/ft	
inter	7.000	0.00	5690.00	24.00	

REMARKS
ALL LOGS WERE SET TO DEPTH WITH MWD
DRILL PIPE DEPTH DURING DEPLOYMENT: 9229
LOGGING TOOL DEPTH AFTER DEPLOYMENT: 9331
4'5" PRODUCTION CASING USED TO CALCULATE AHV
OPERATORS: S. WORLEY _ R. CASPIAN
S.O: 3538589

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.





122°

6100

123°

6200

RTAS

R40S

123°

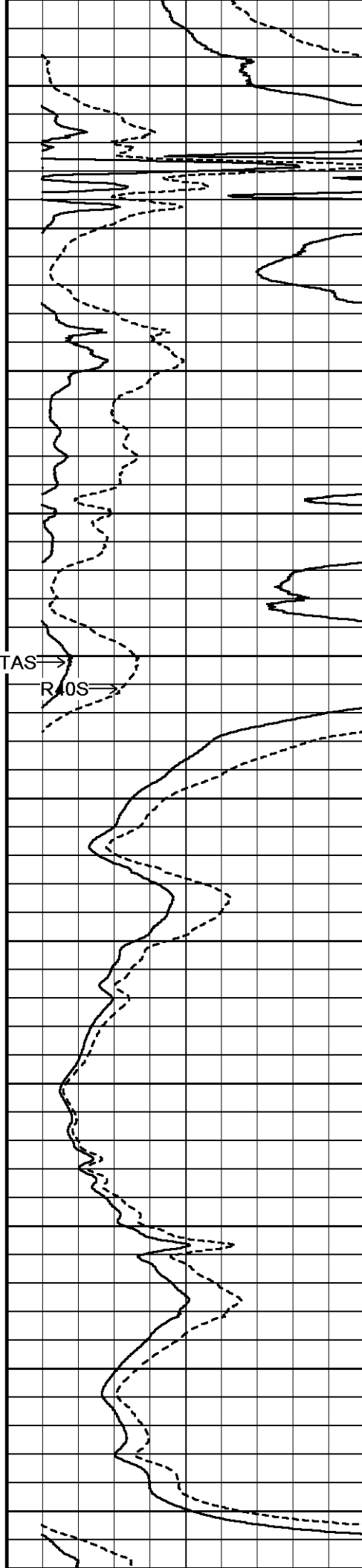
6300

123°

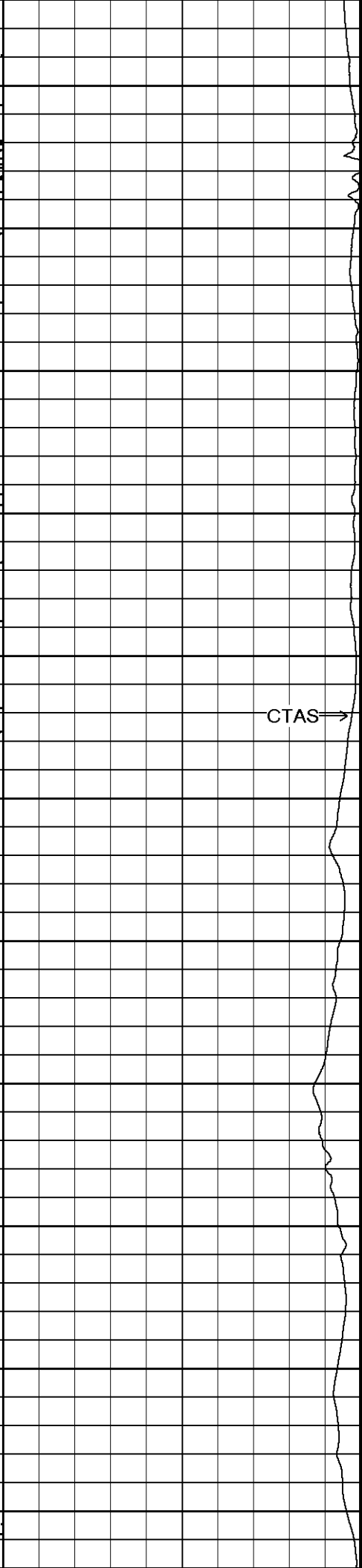
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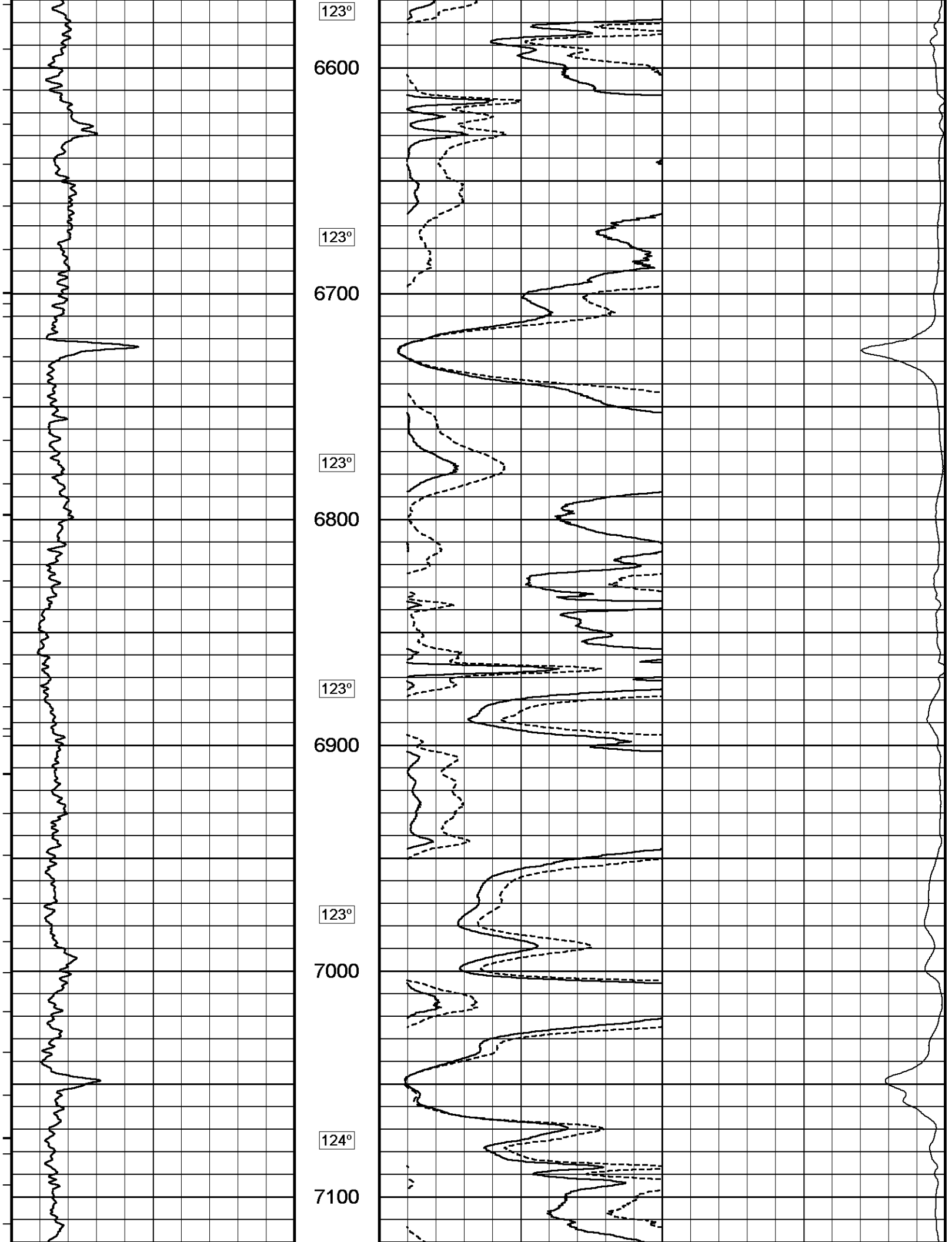
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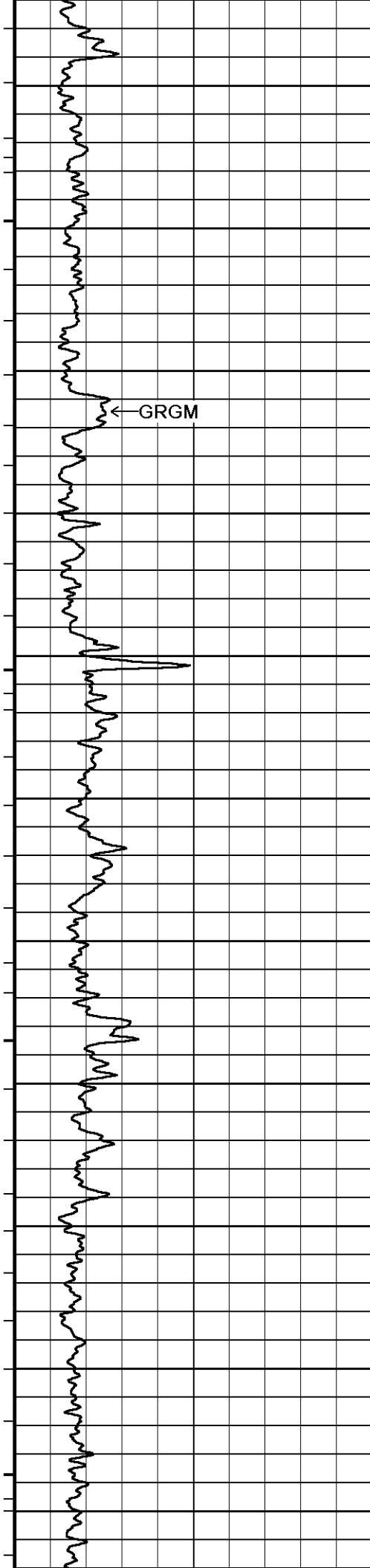
6500



CTAS







124°

7200

R40S

RTAS

CTAS →

124°

7300

124°

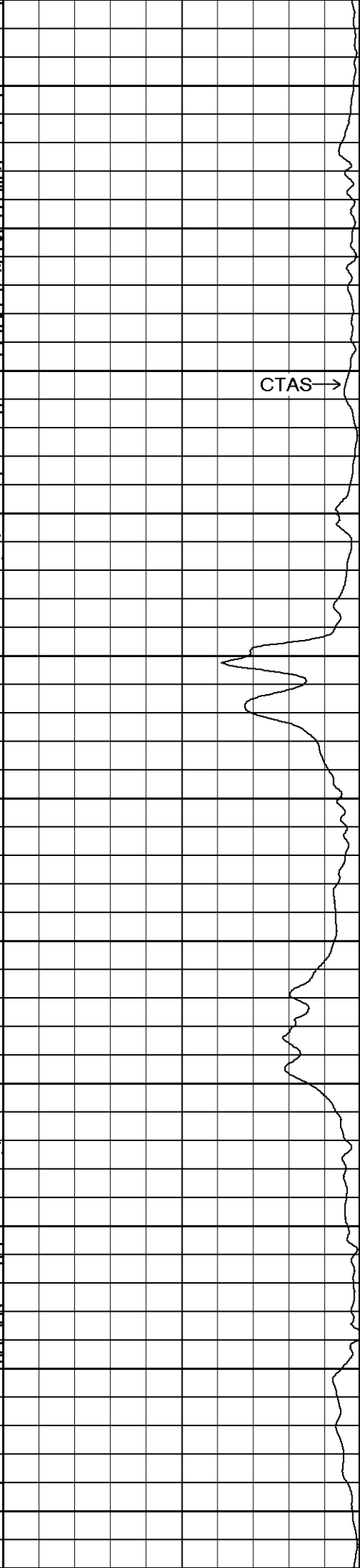
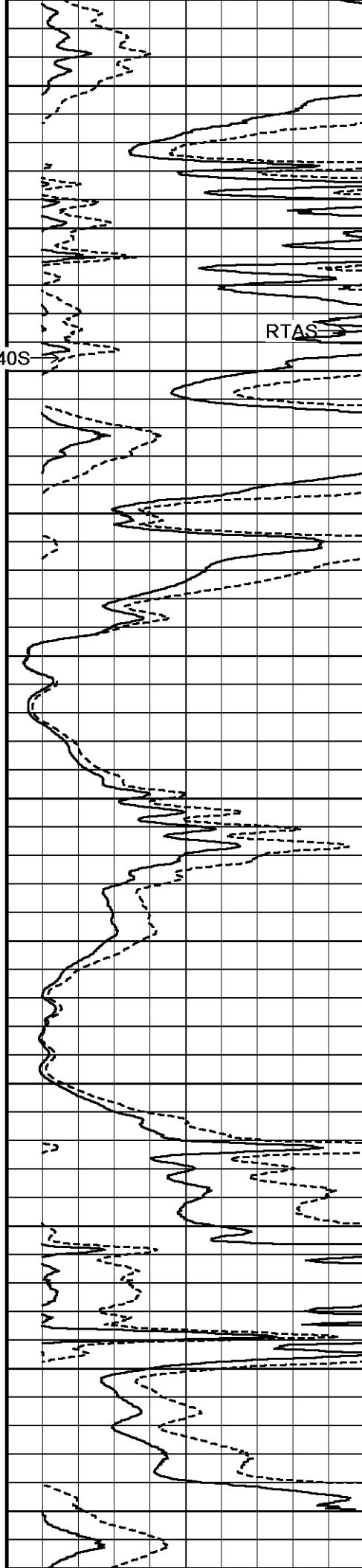
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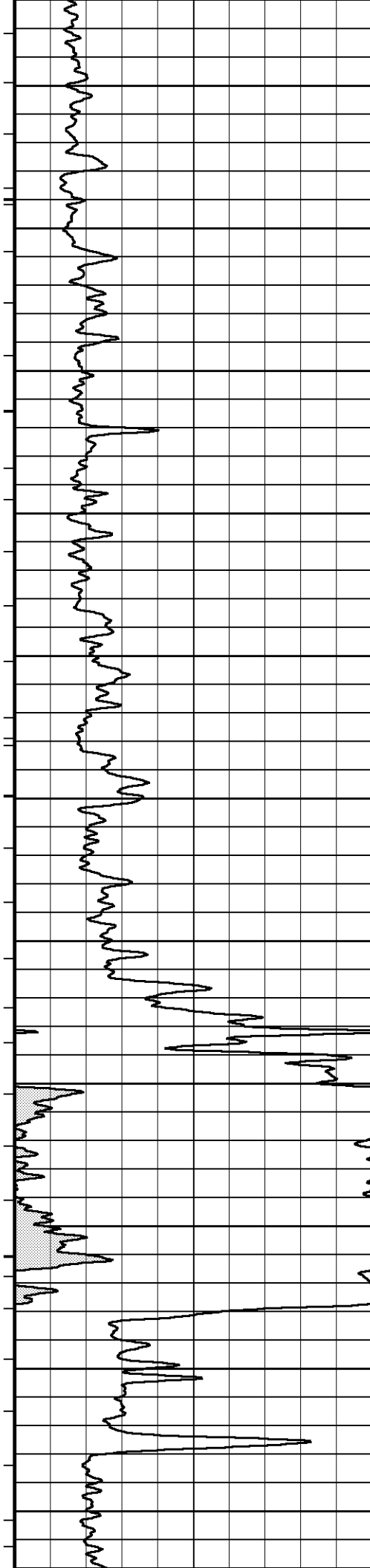
124°

7500

124°

7600





124°

7700

124°

7800

124°

7900

124°

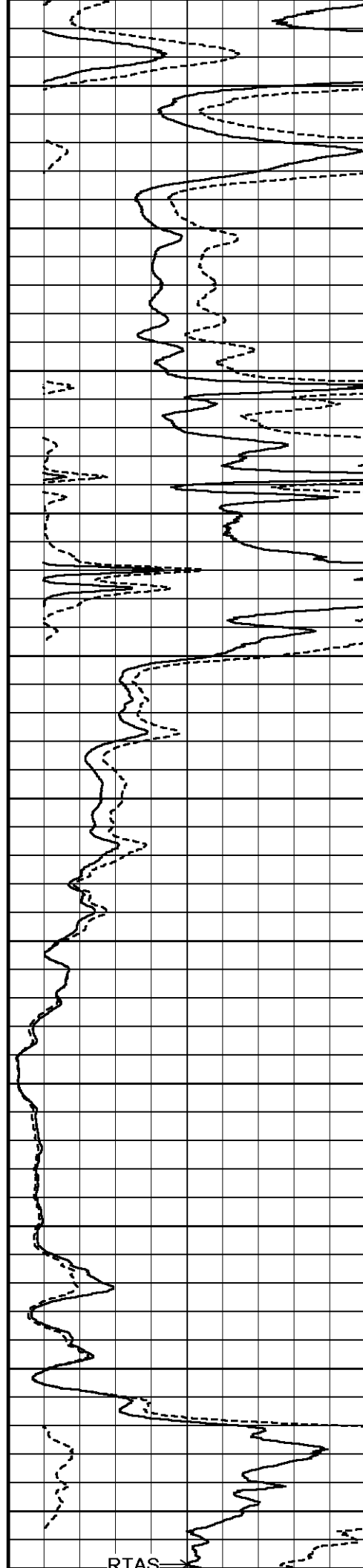
8000

124°

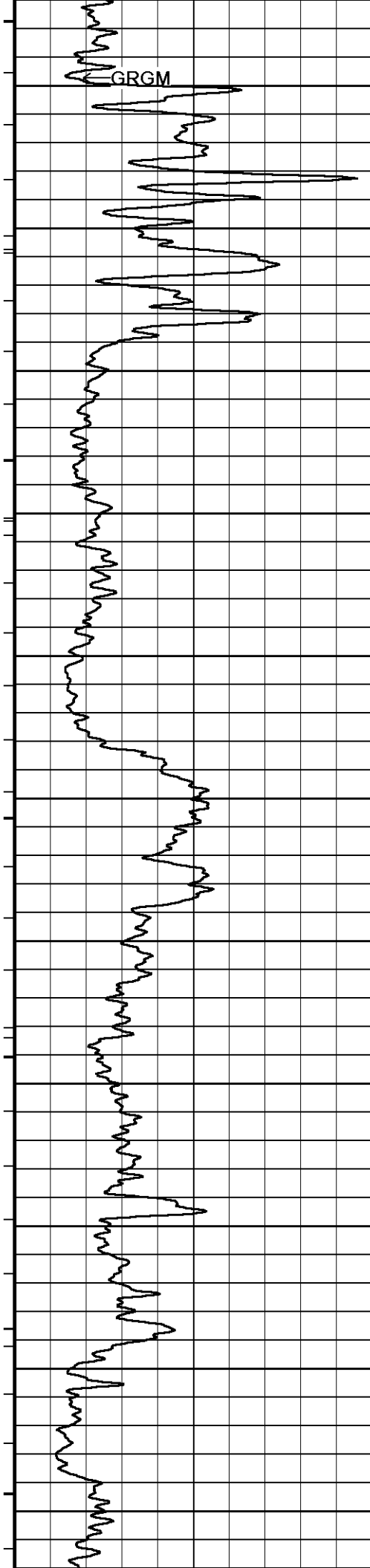
8100

124°

8200



RTAS



124°

8300

124°

8400

124°

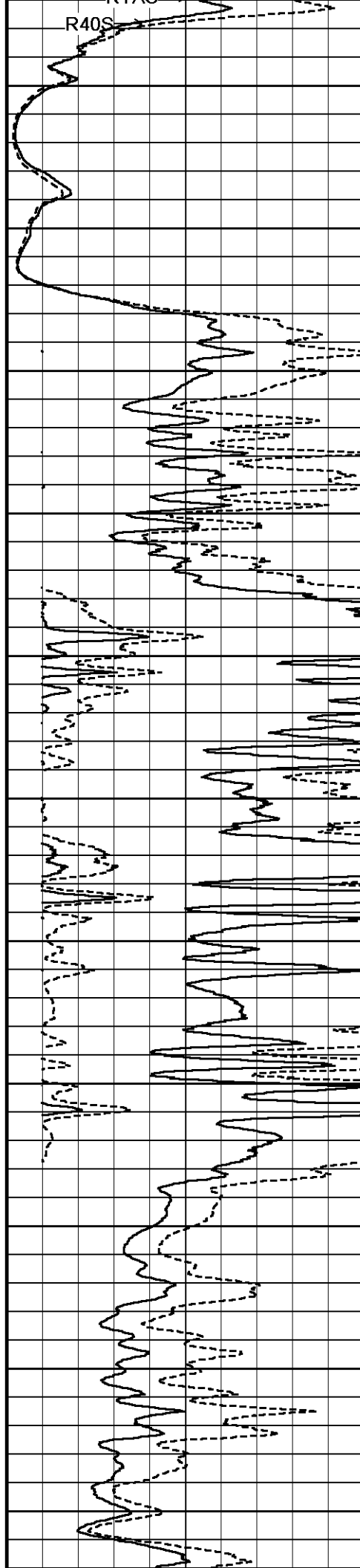
8500

124°

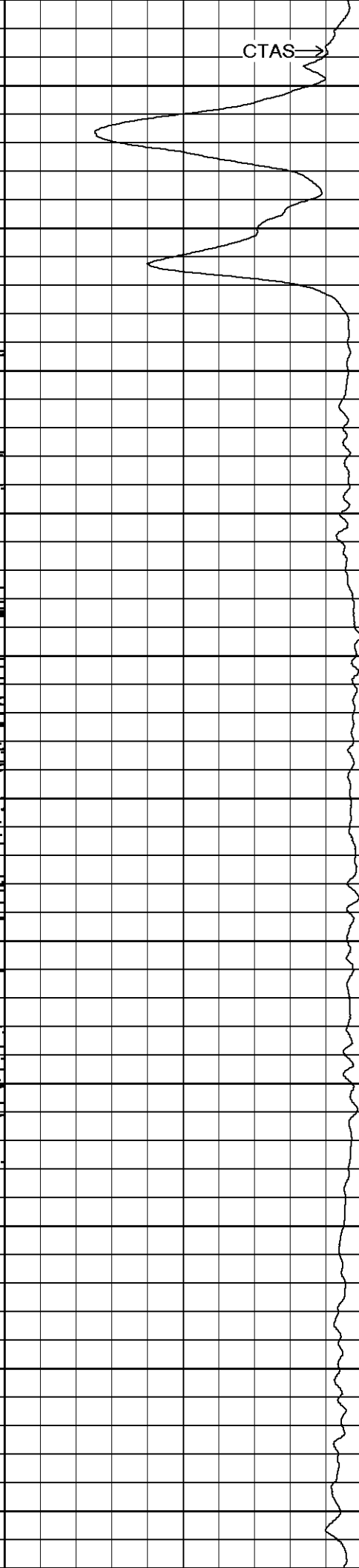
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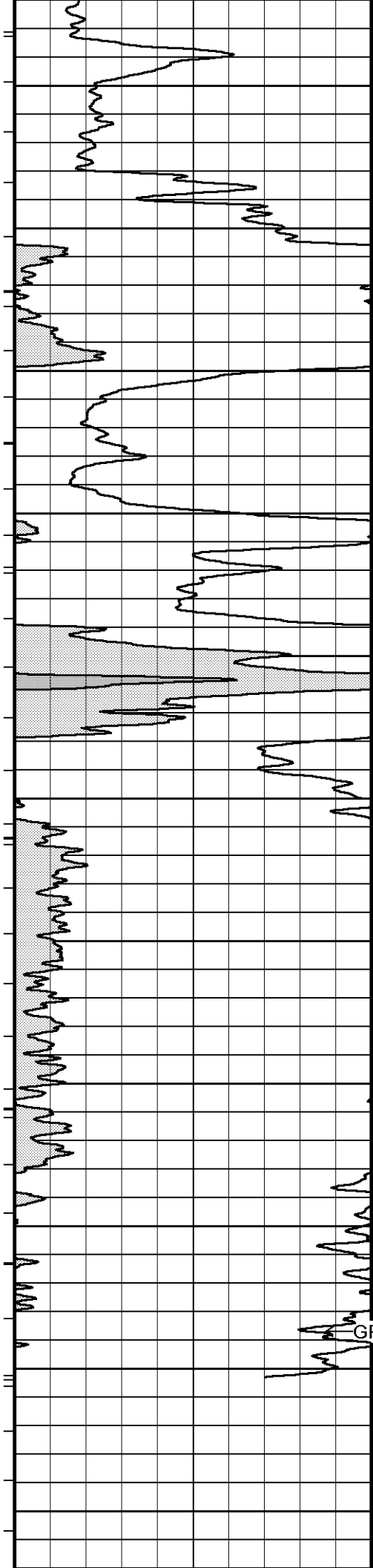
124°

8700



CTAS →





124°

8800

123°

8900

123°

9000

123°

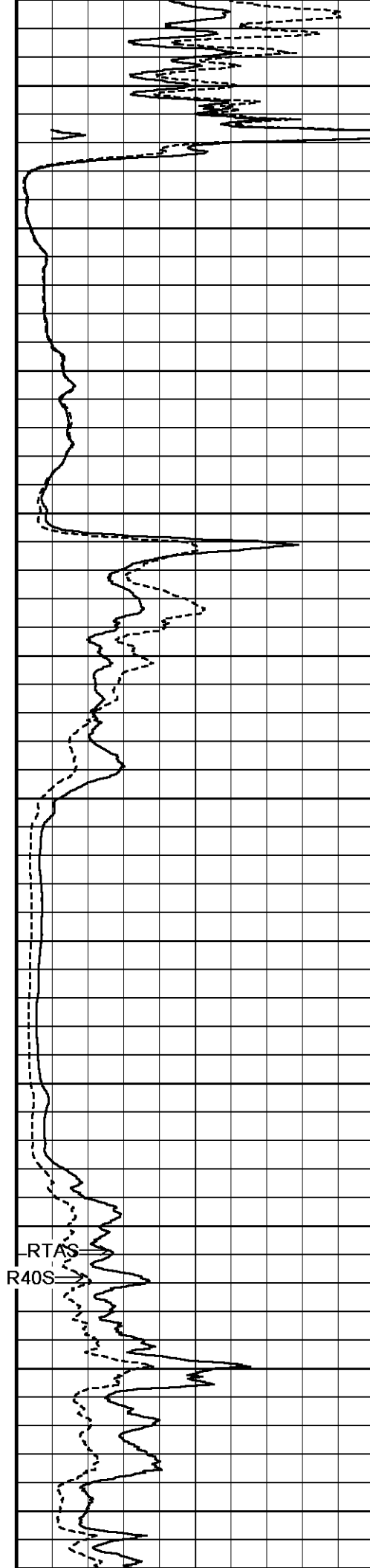
9100

124°

9200

9300

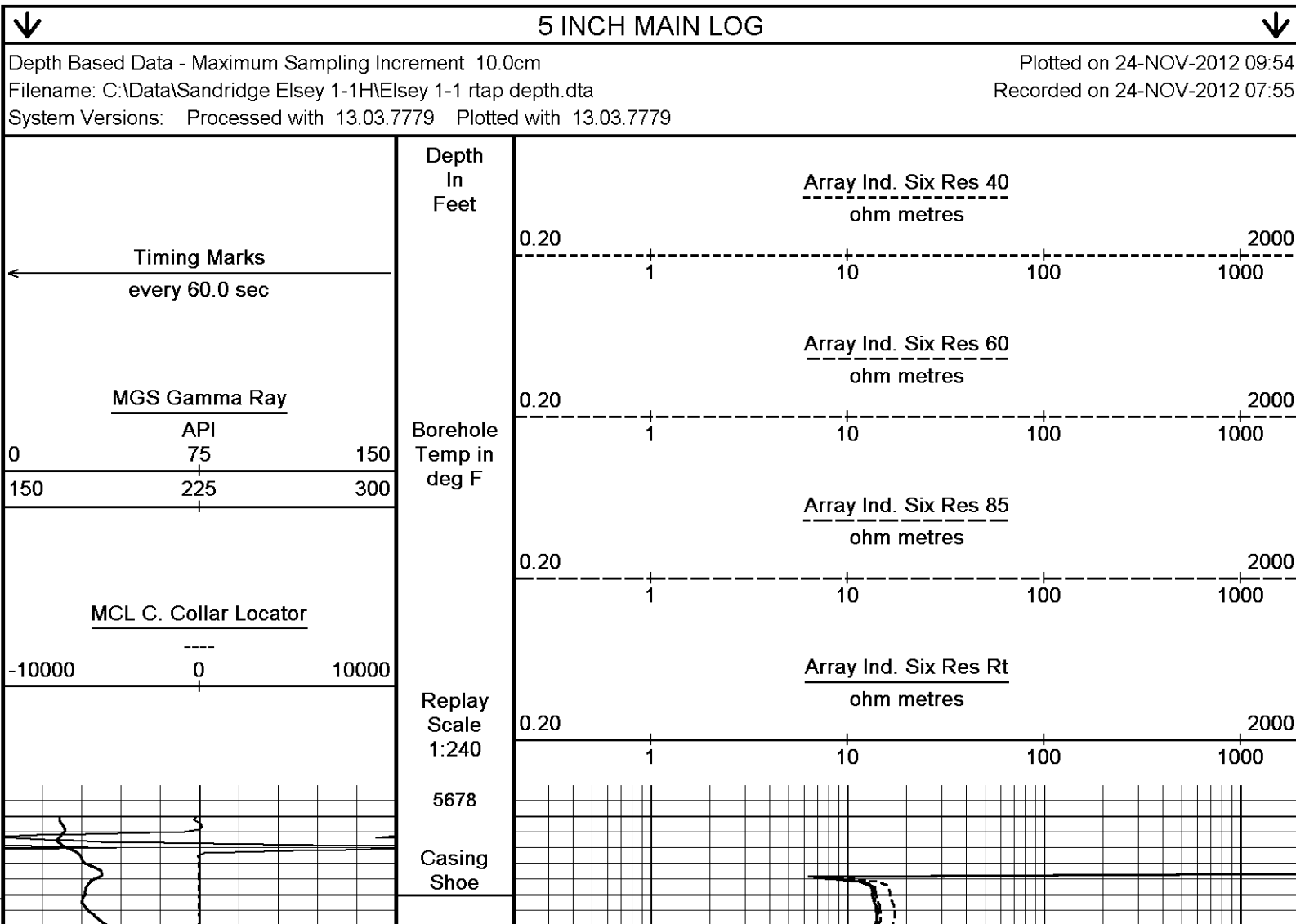
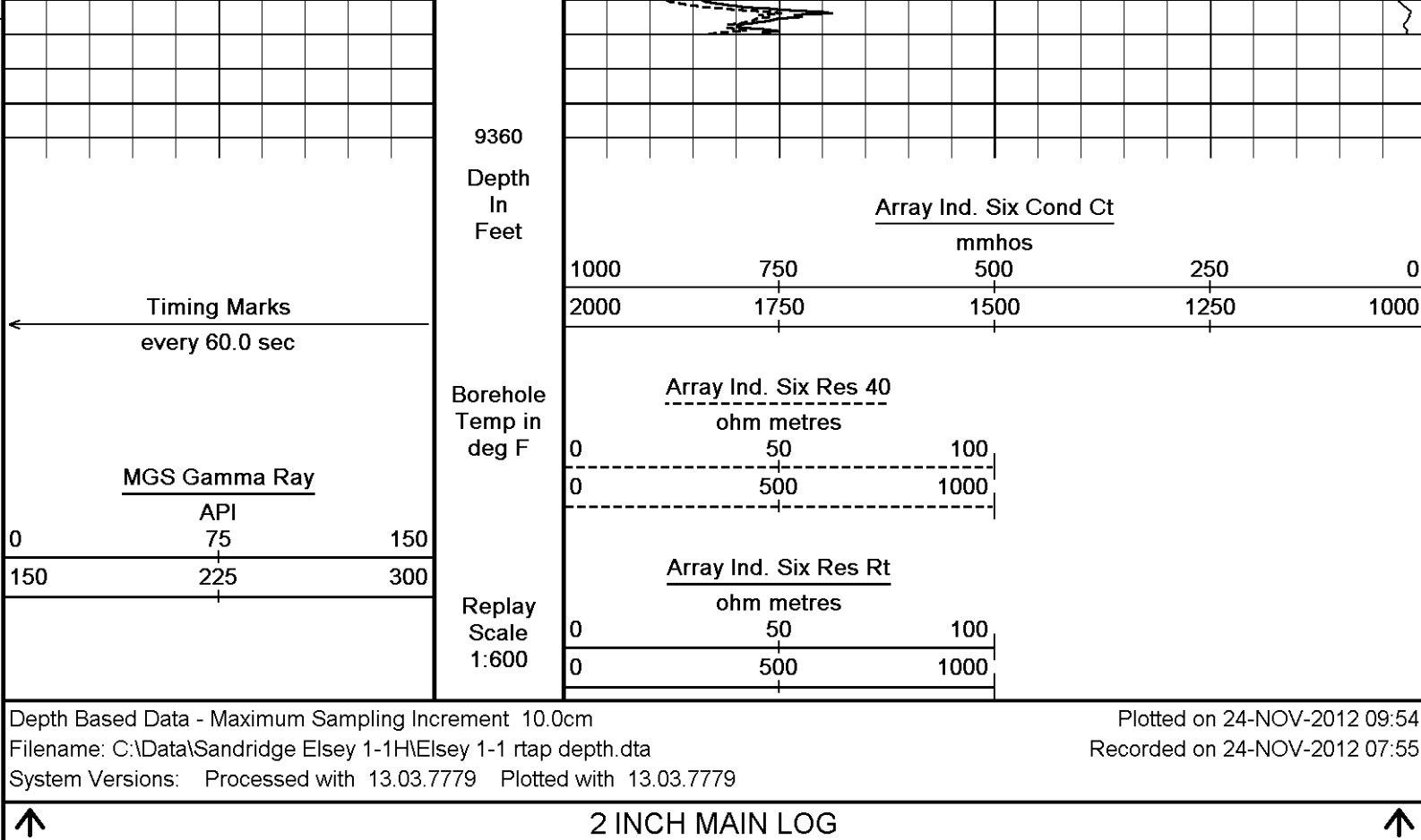
GRGM

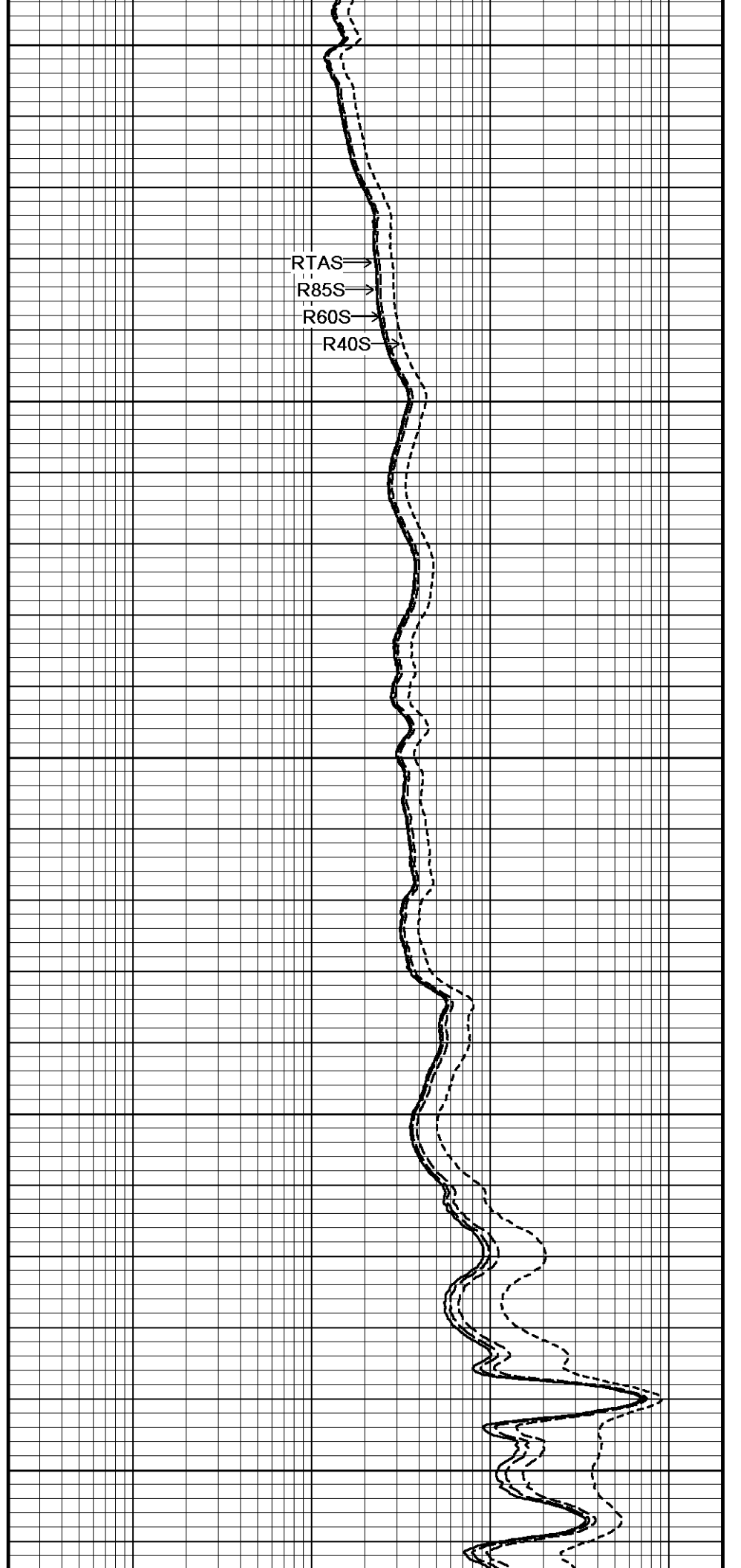
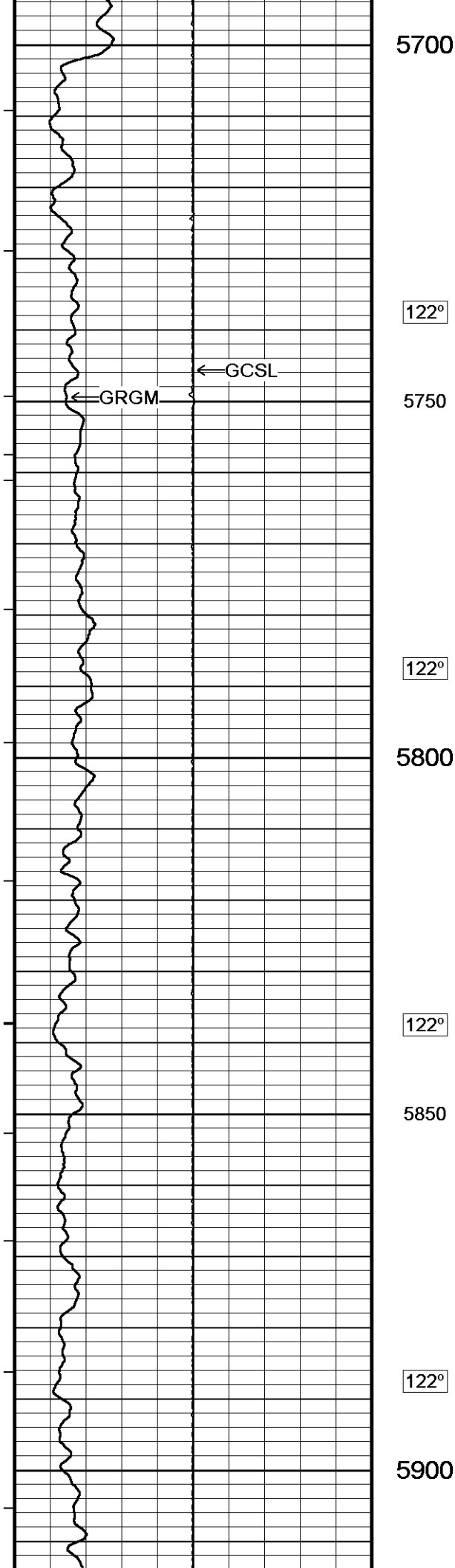


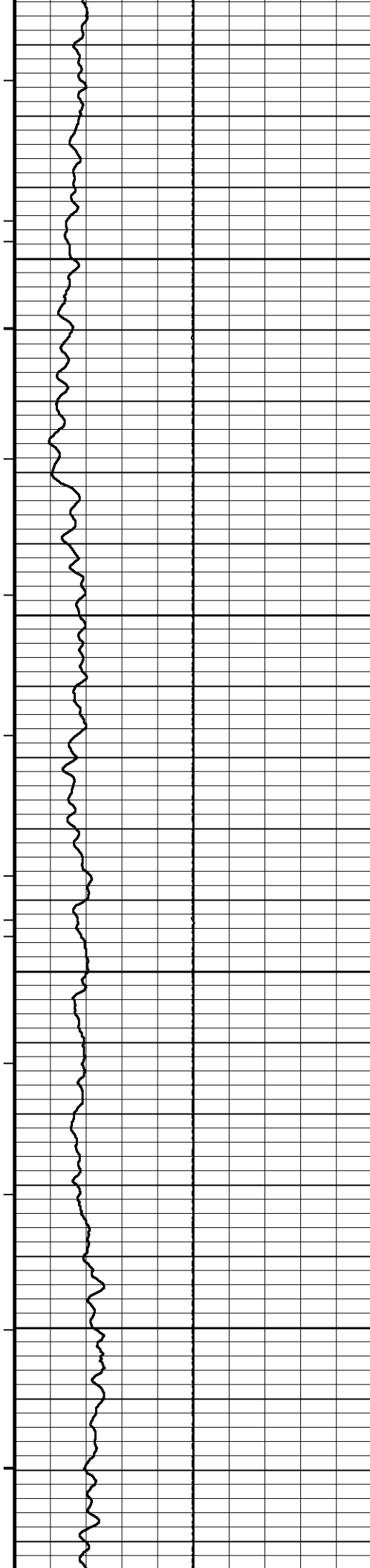
RTAS

R40S

CTAS







122°

5950

122°

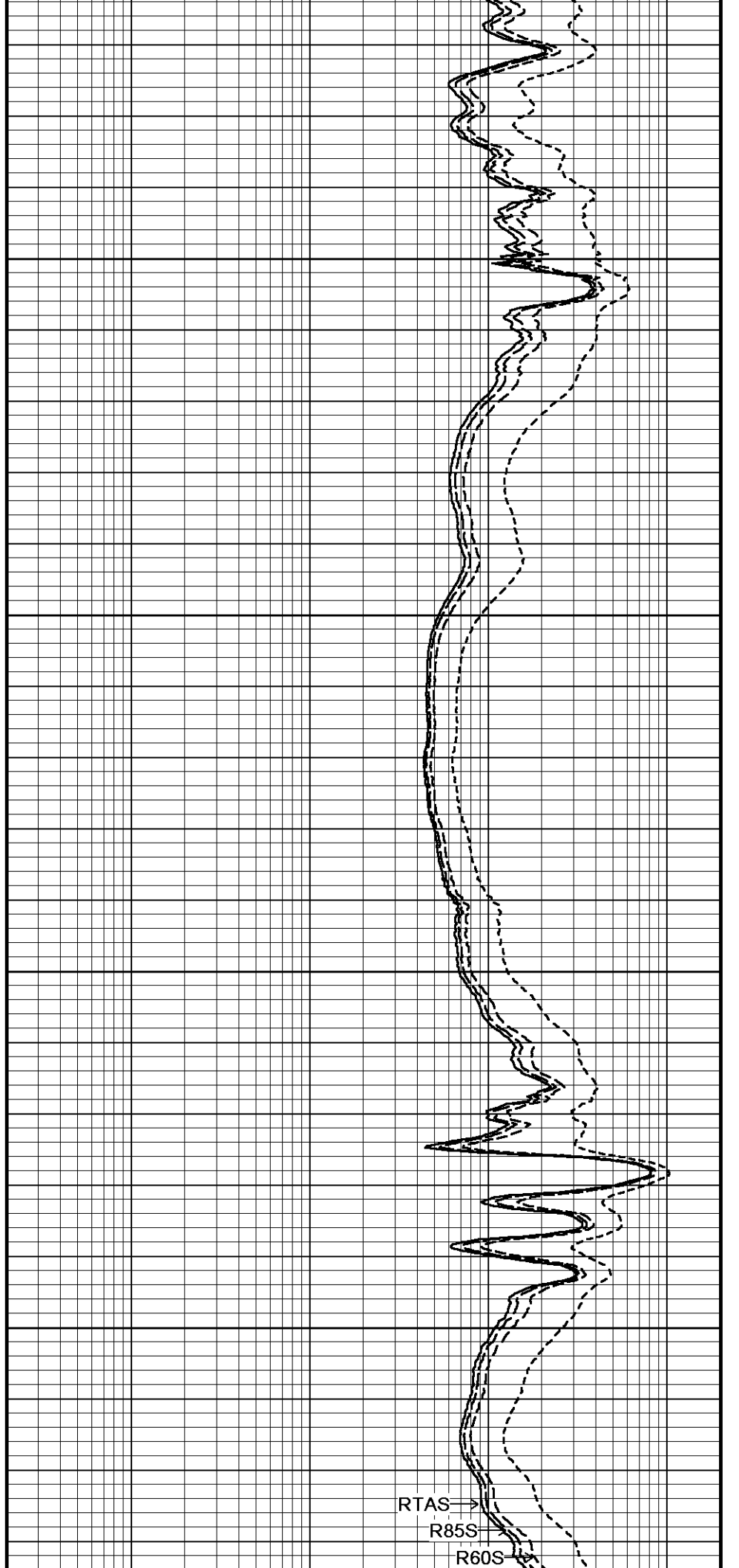
6000

122°

6050

122°

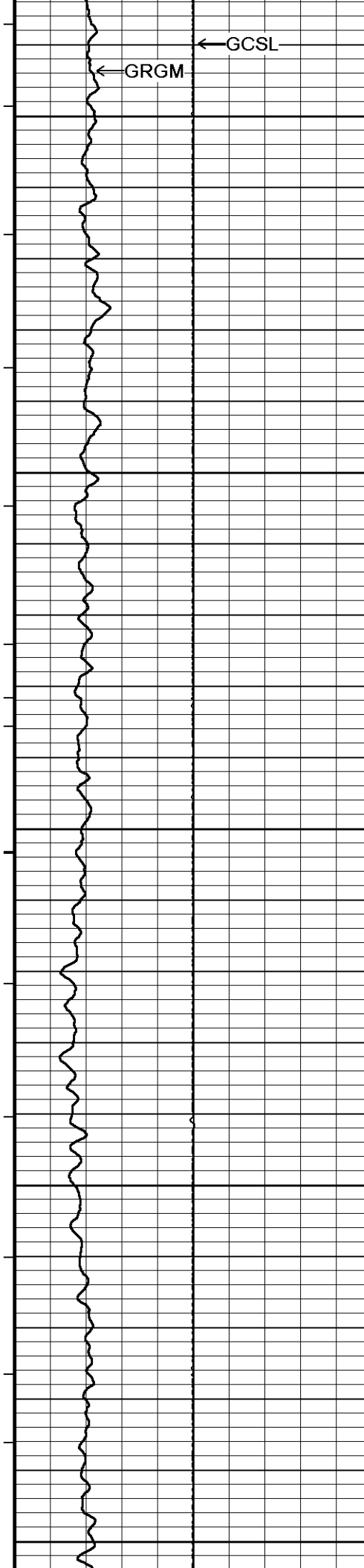
6100



RTAS →

R85S →

R60S →



123°

6150

123°

6200

123°

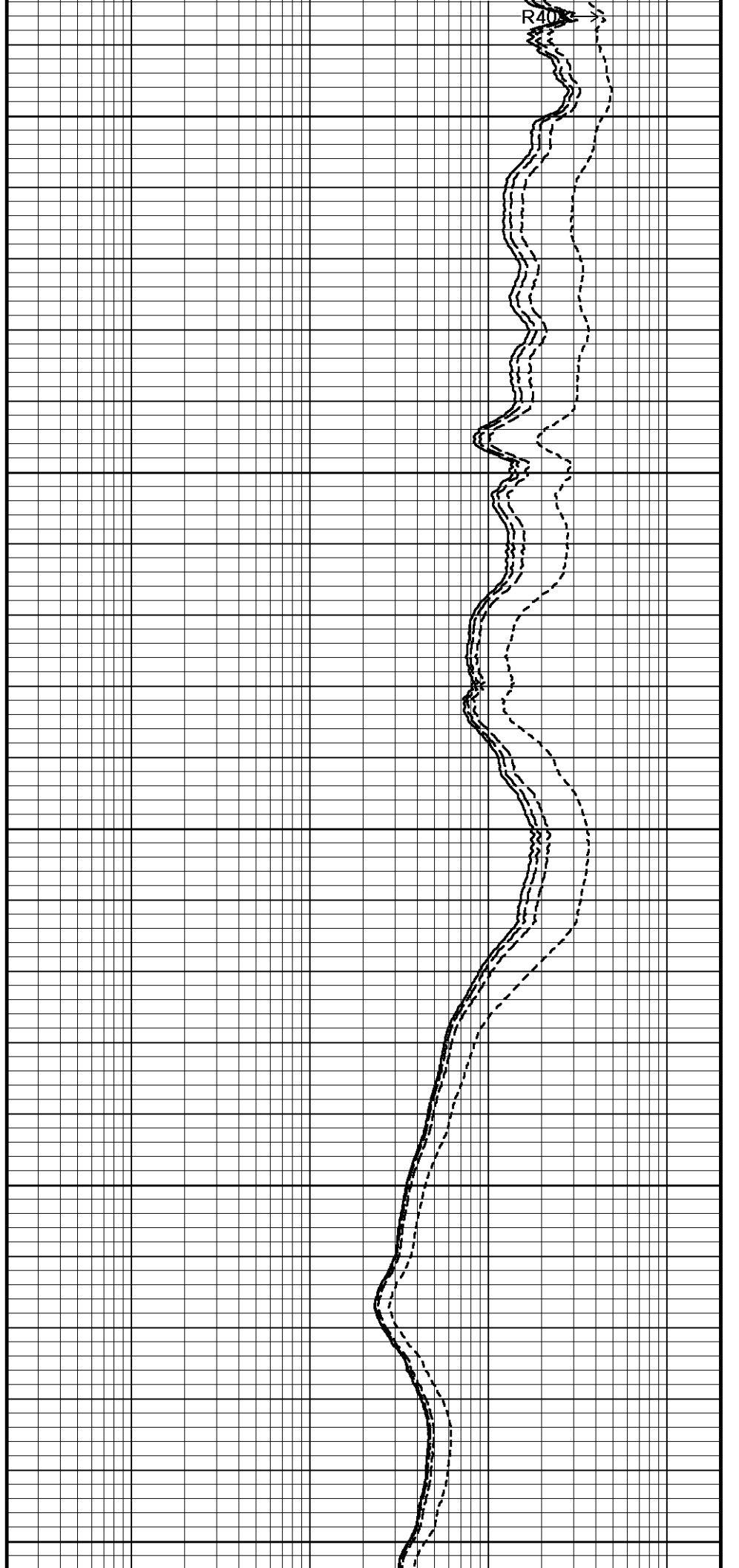
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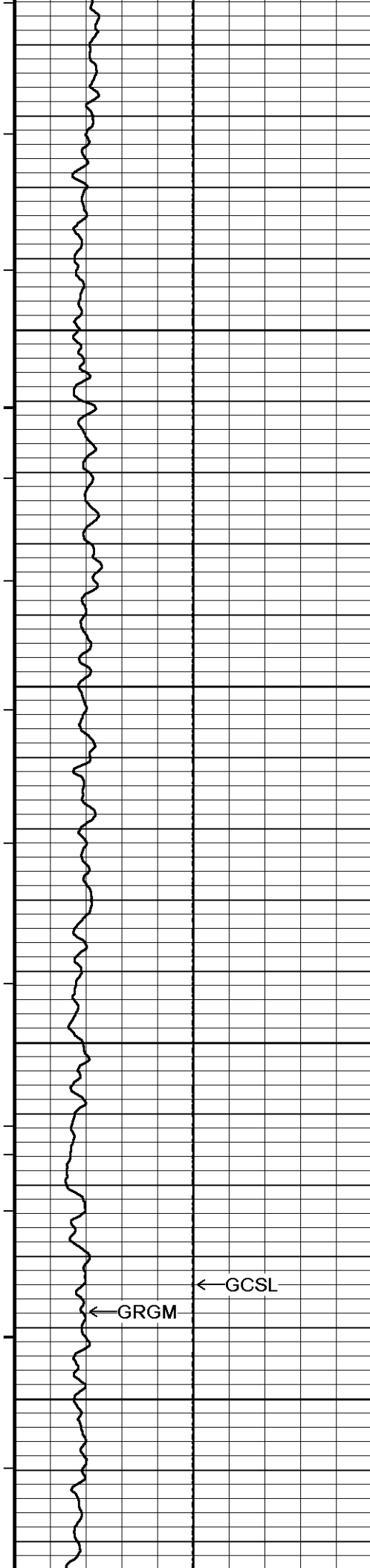
123°

6300

123°

6350





123°

6400

123°

6450

123°

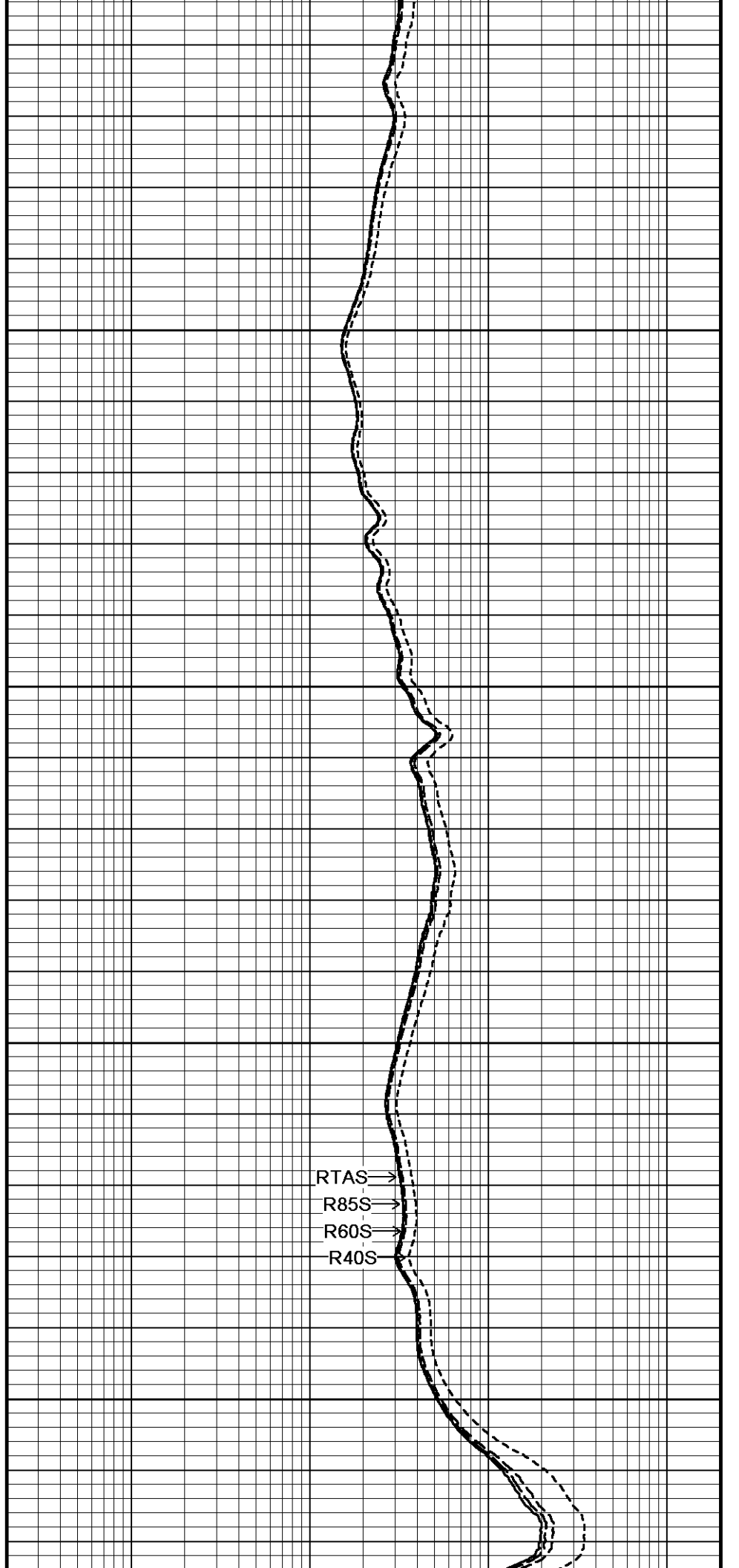
6500

← GRGM

← GCSL

123°

6550

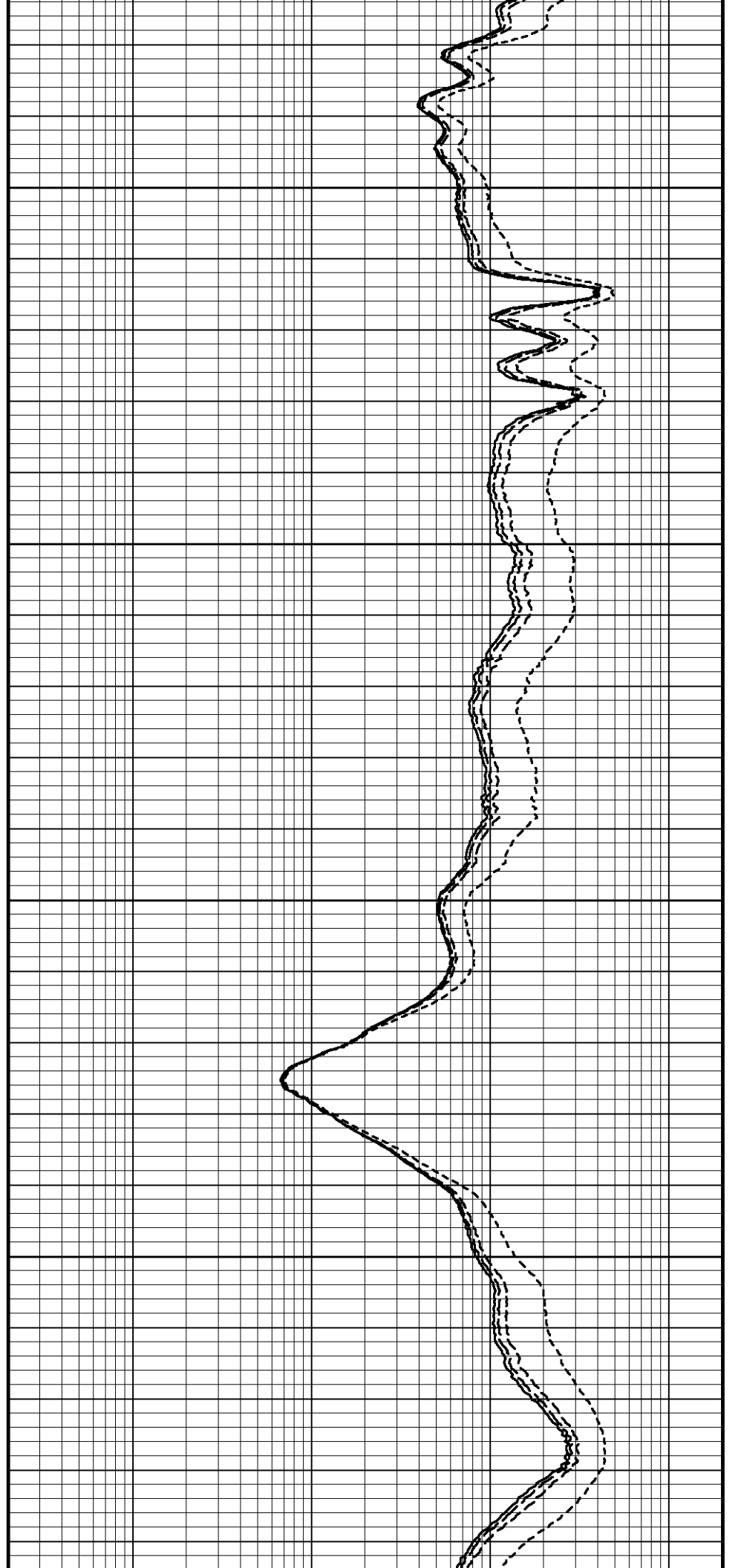
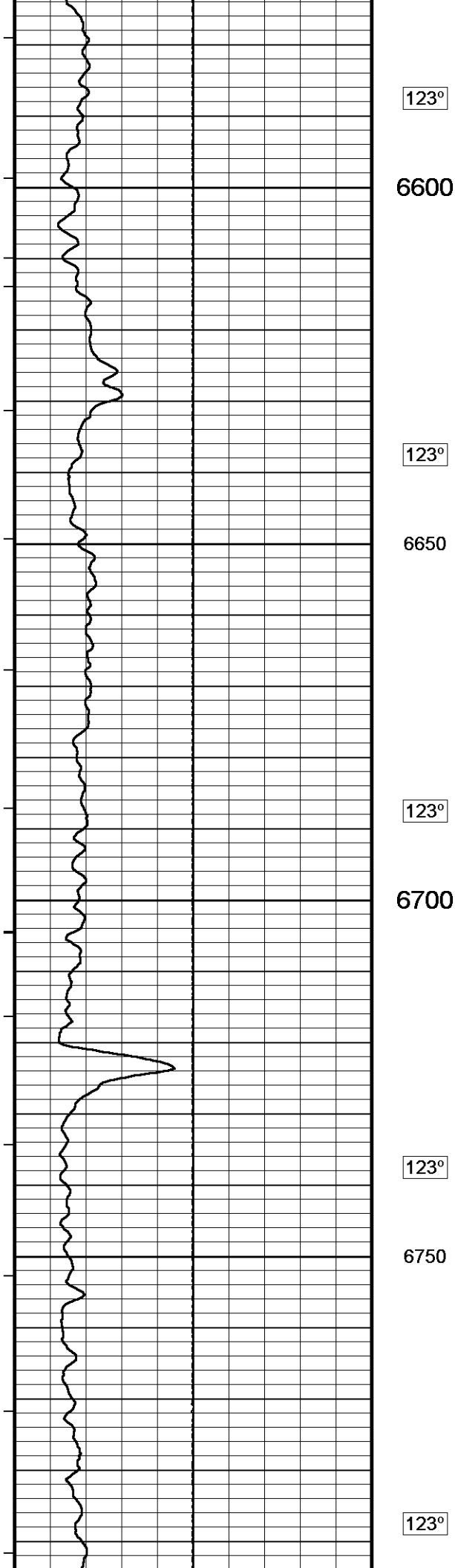


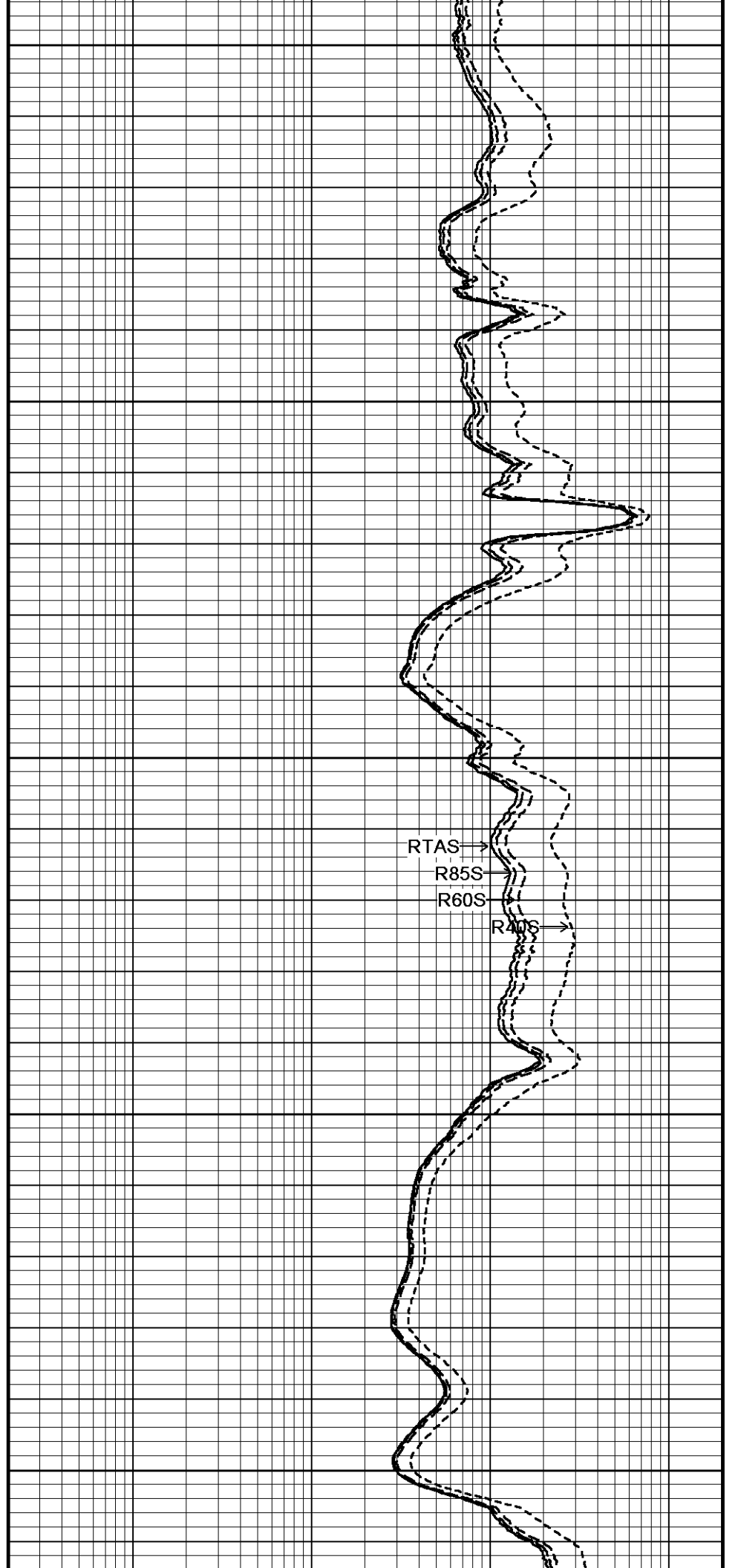
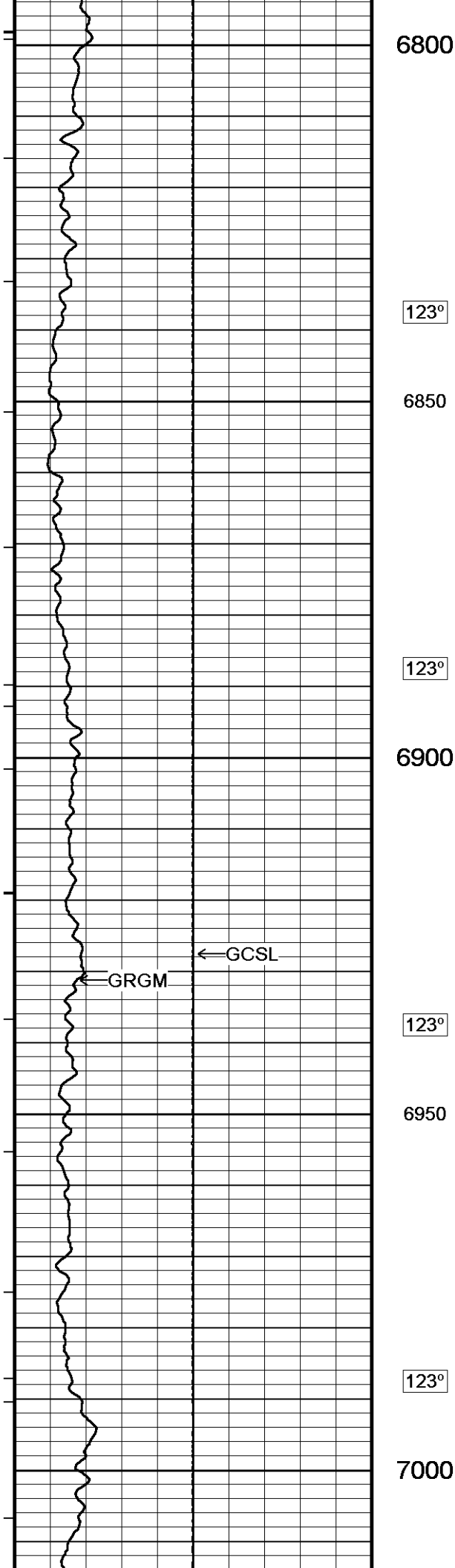
RTAS →

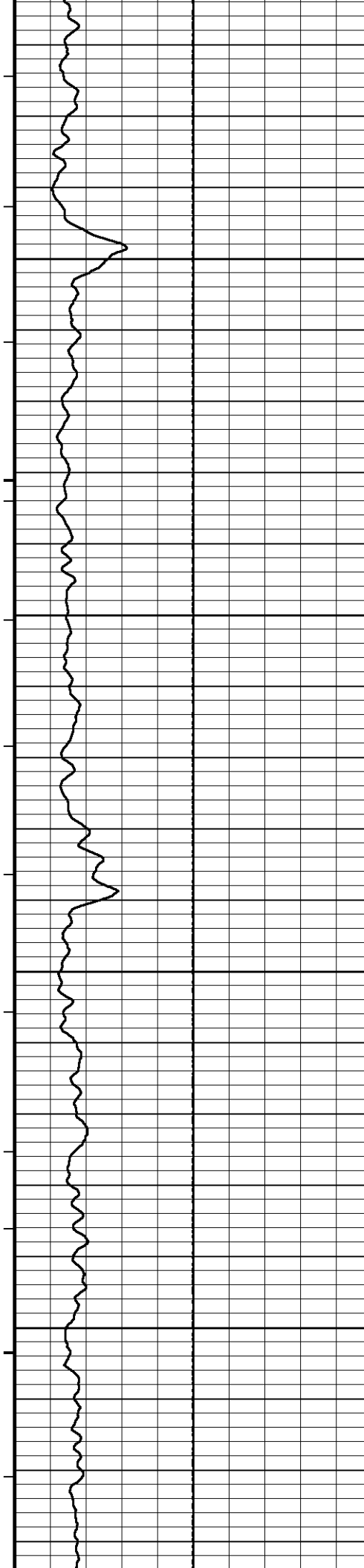
R85S →

R60S →

R40S →







124°

7050

124°

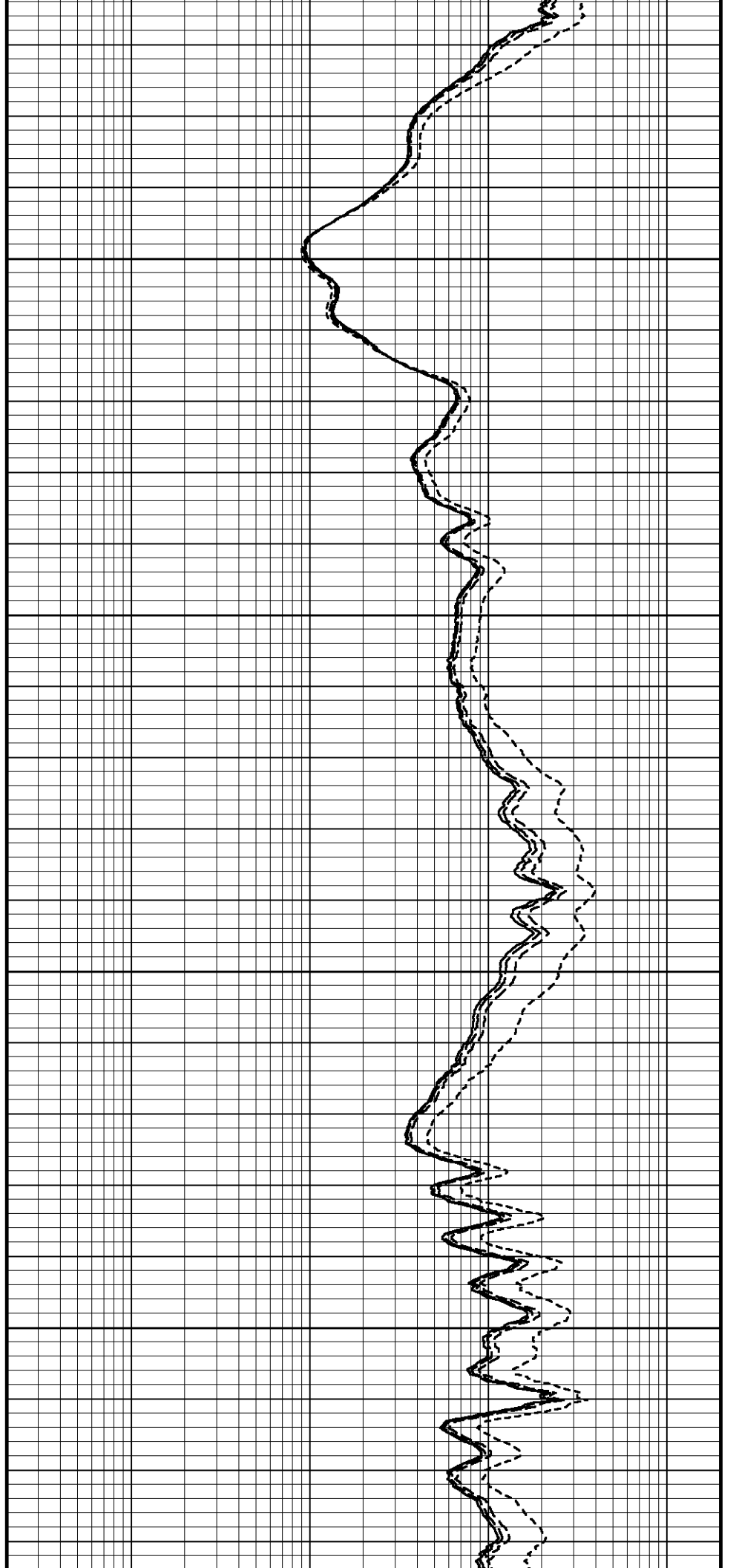
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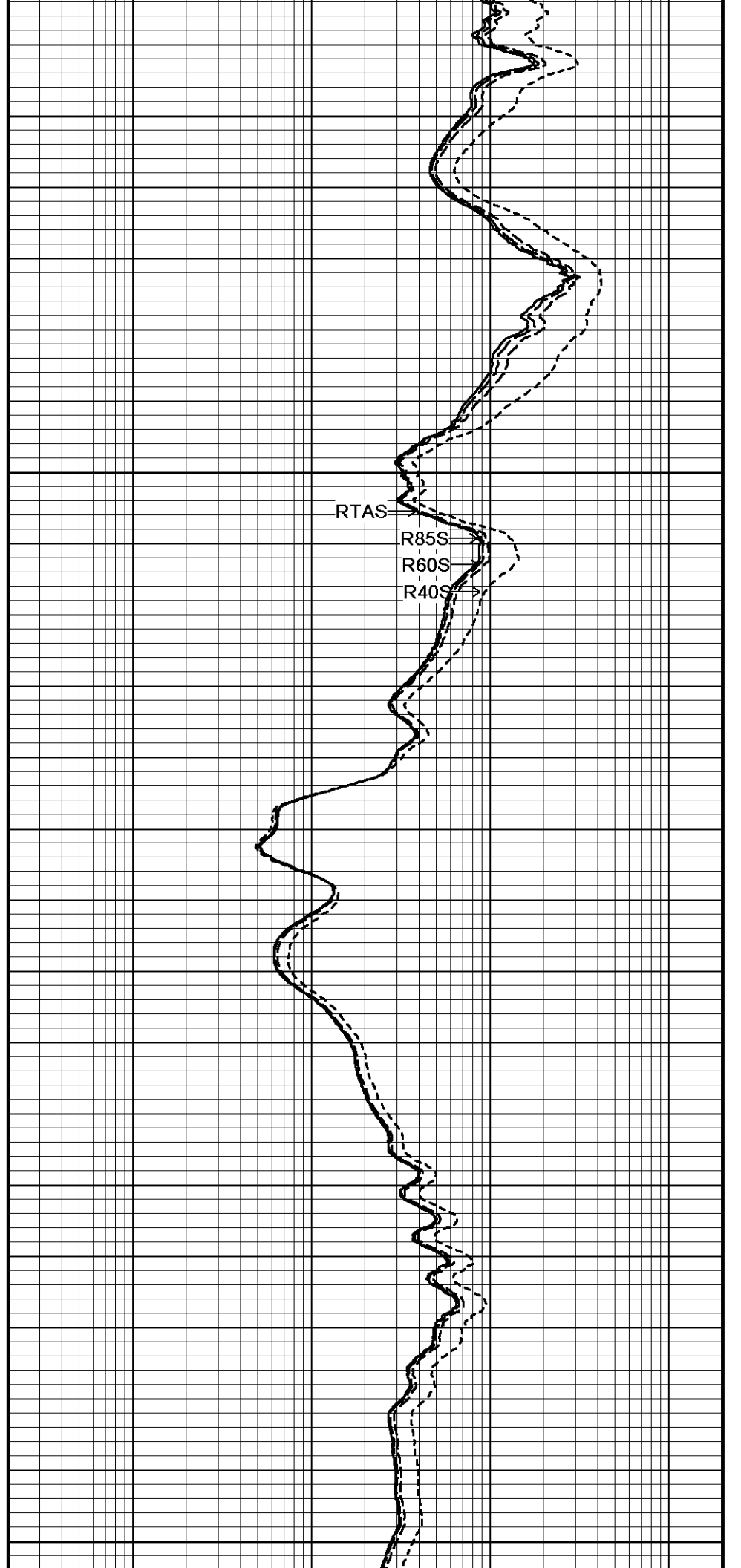
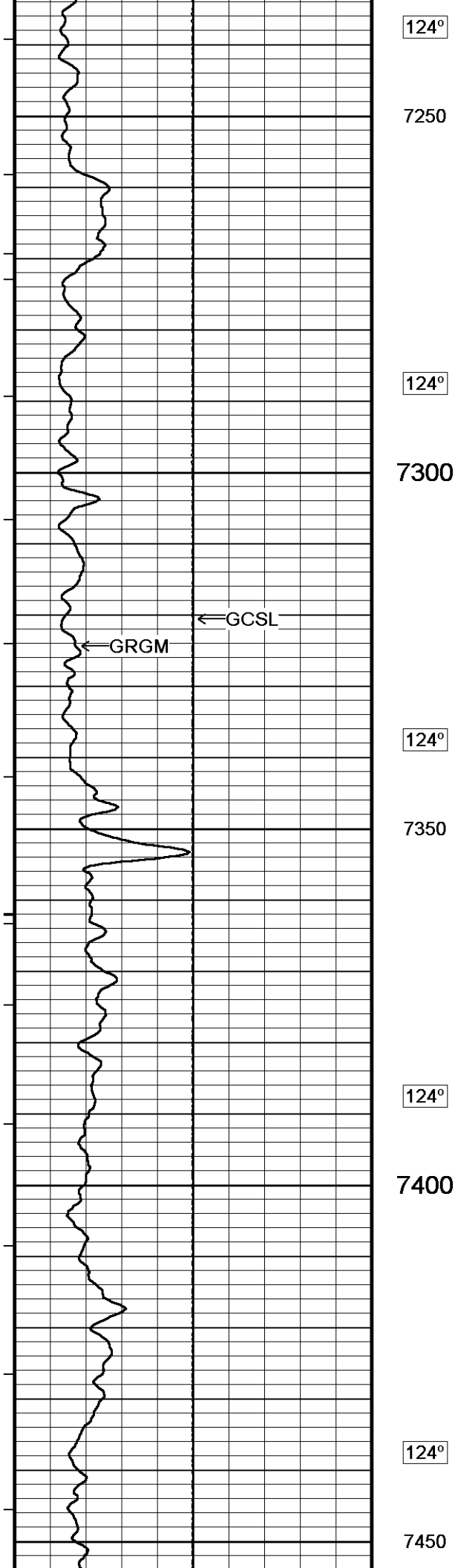
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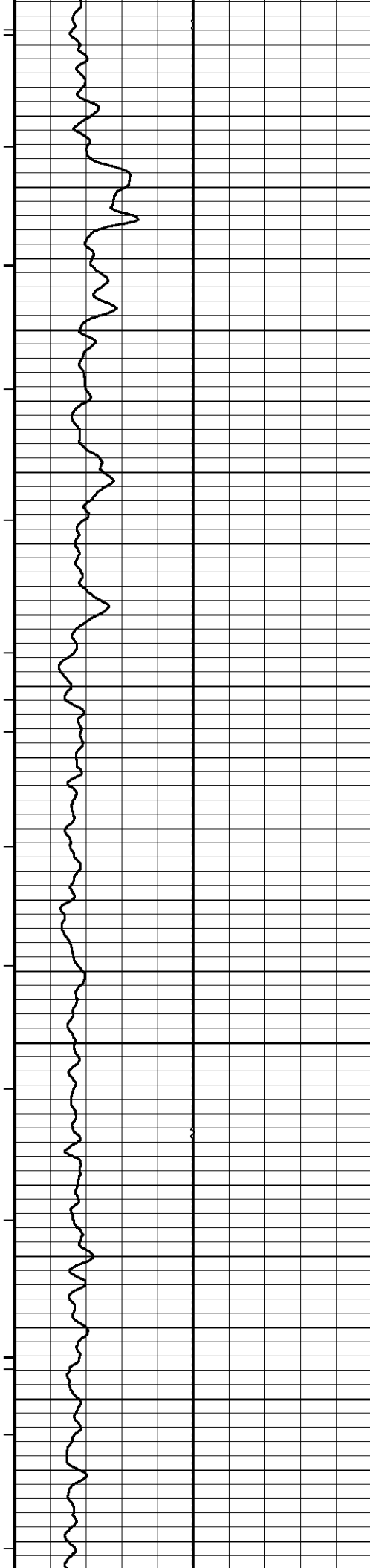
7150

124°

7200







124°

7500

124°

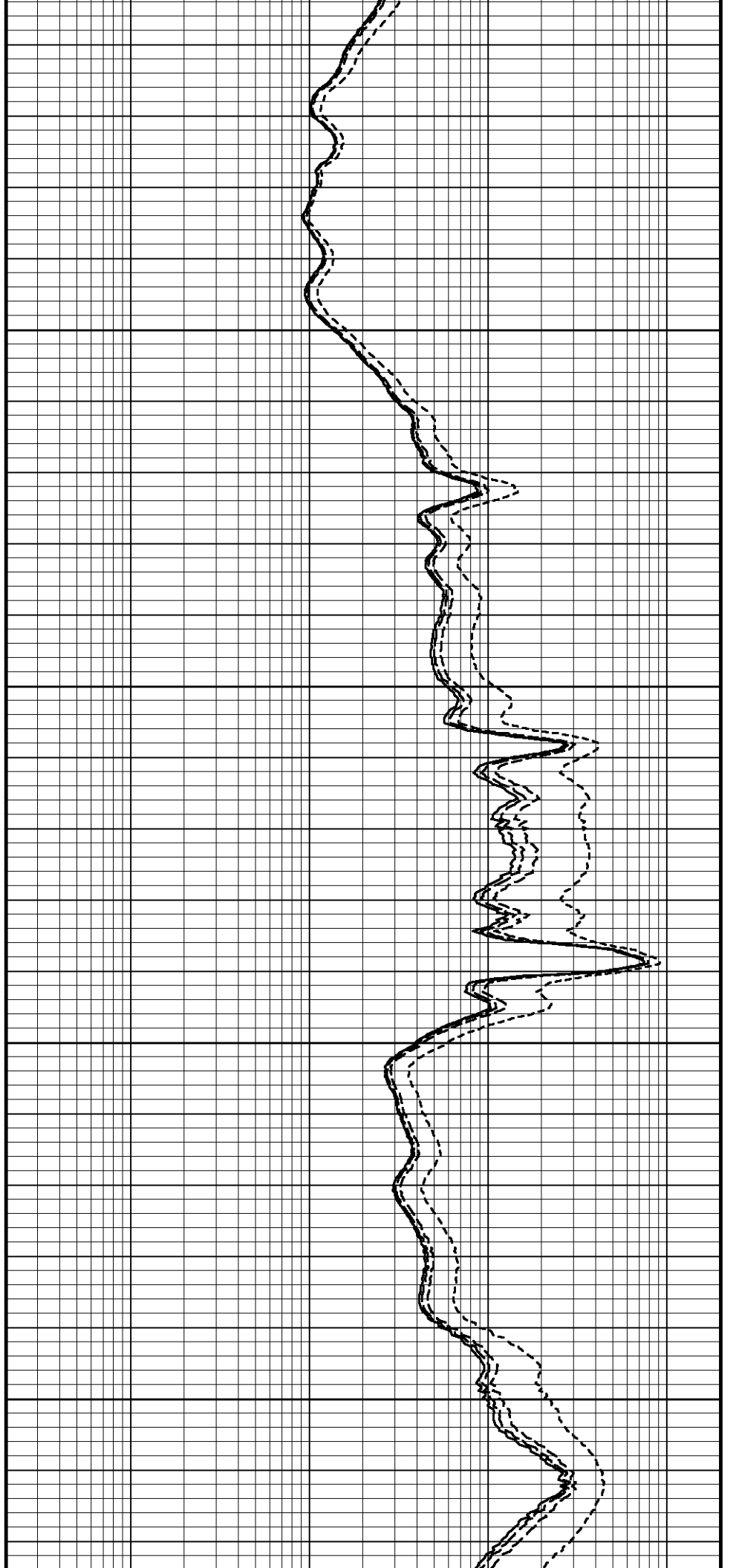
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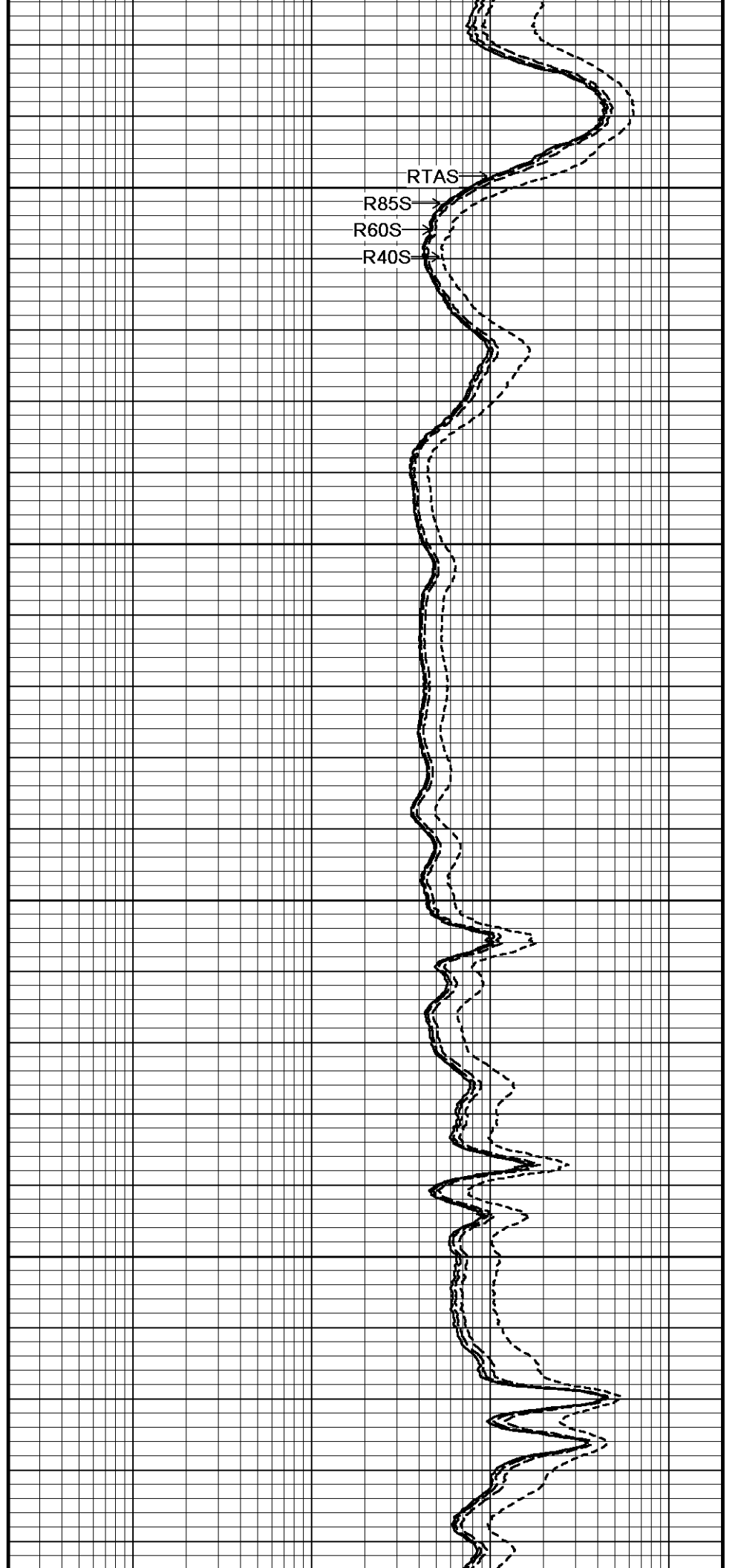
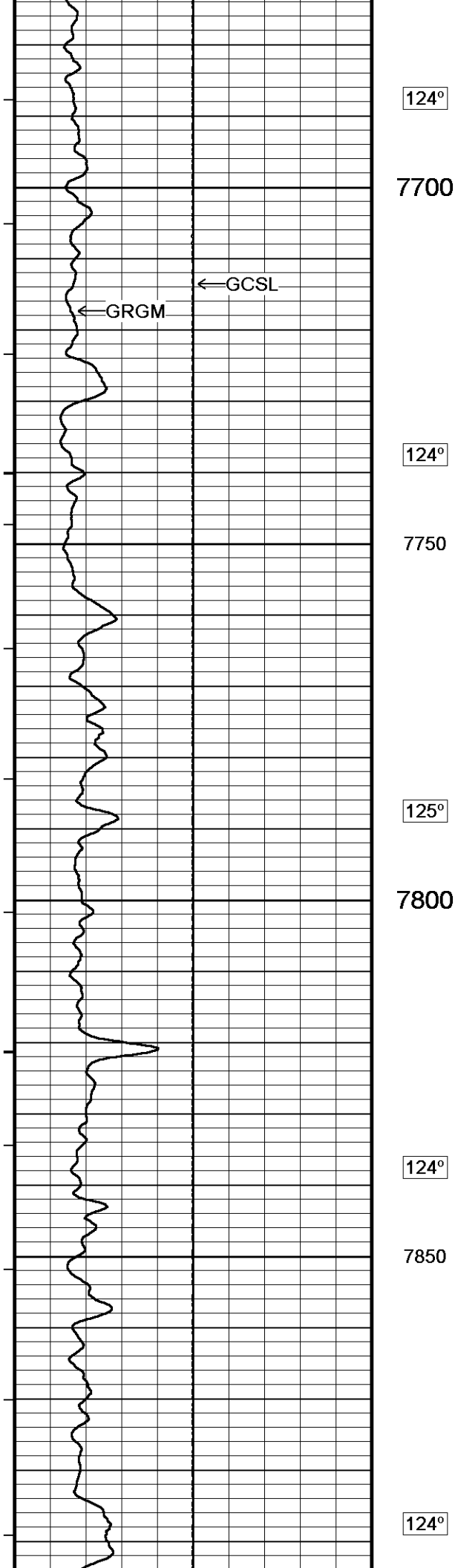
124°

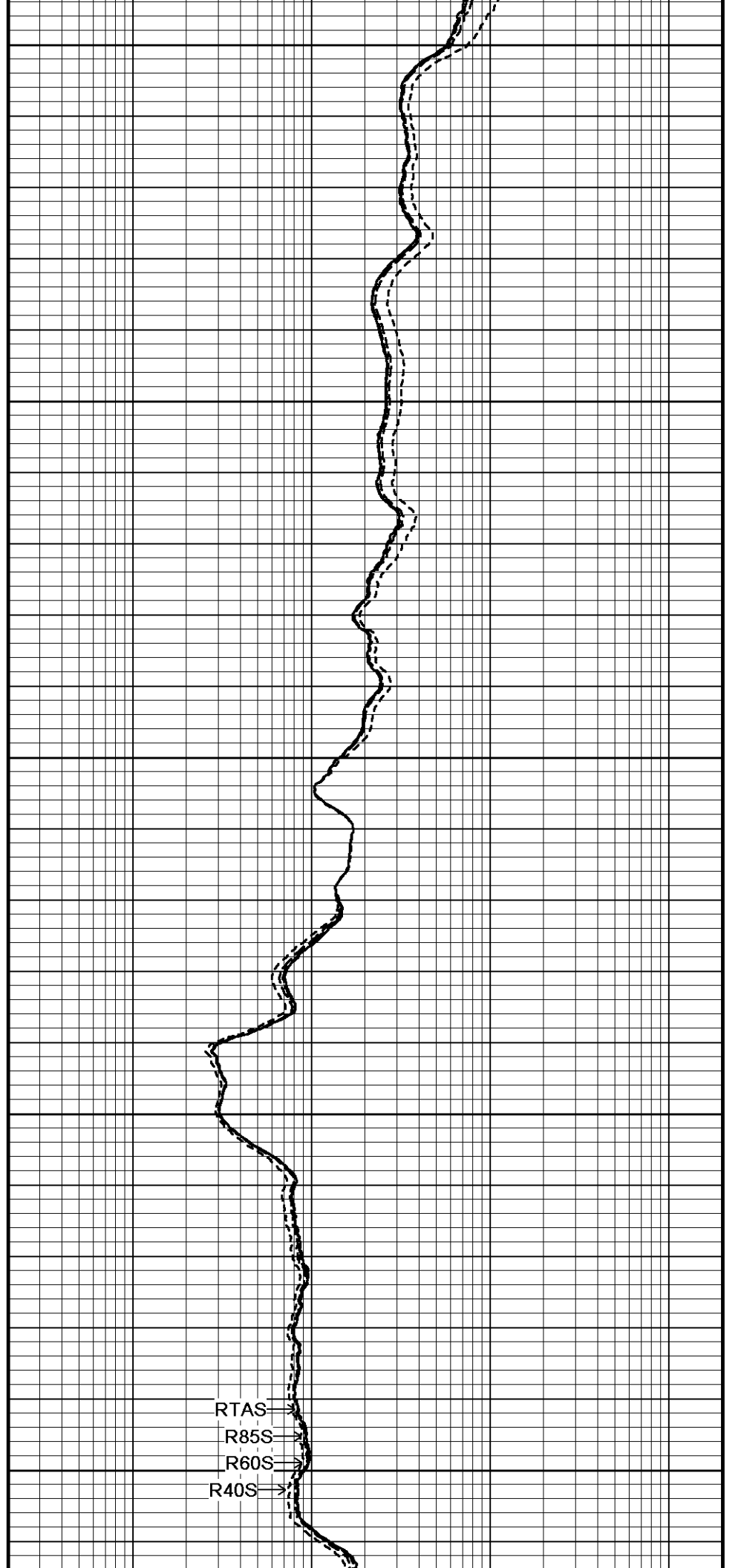
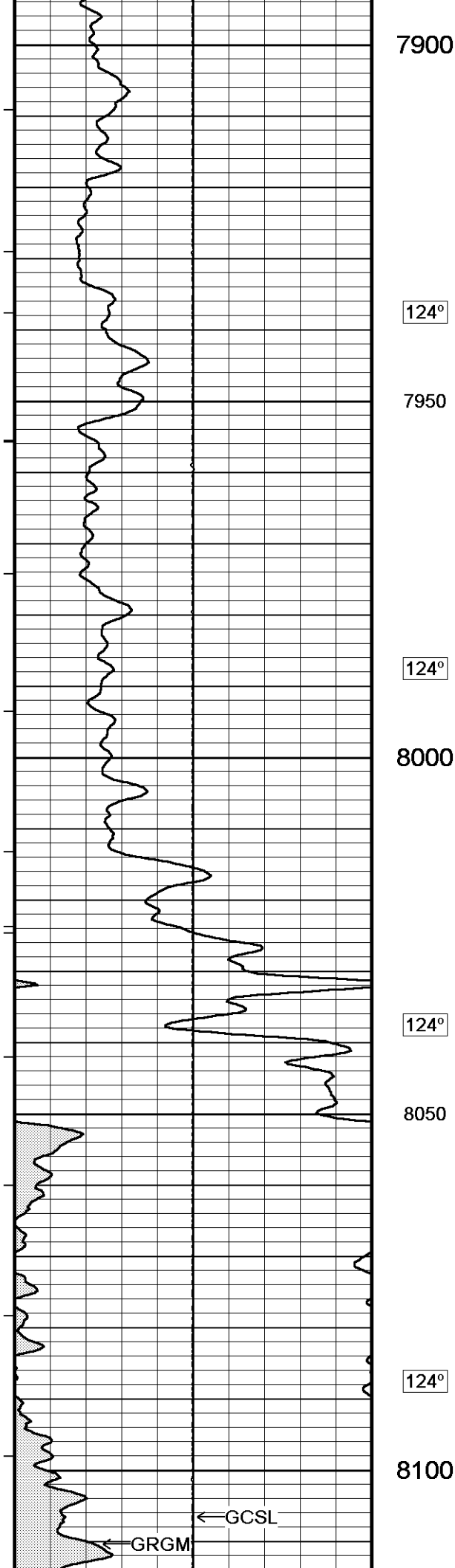
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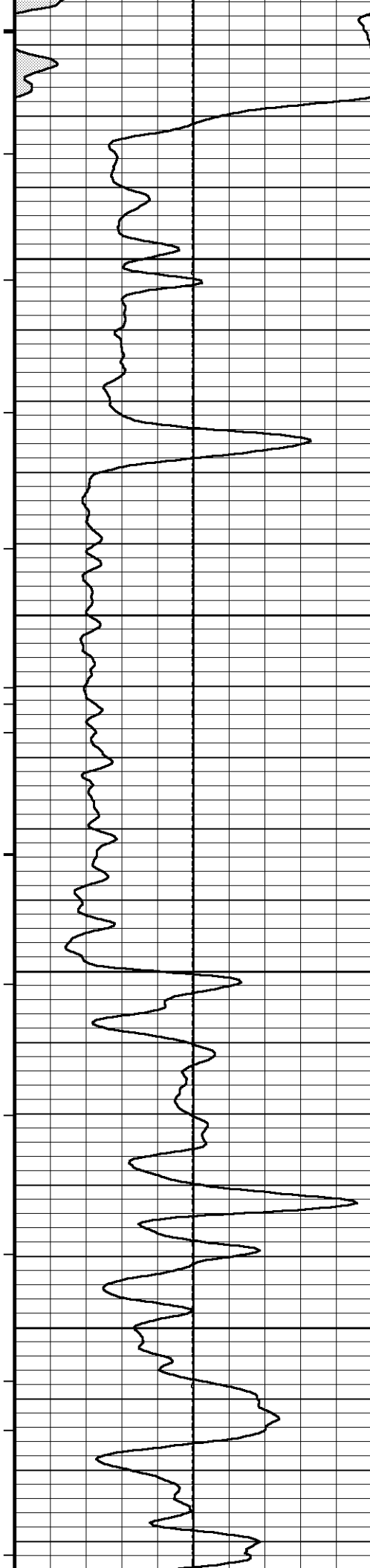
124°

7650









124°

8150

124°

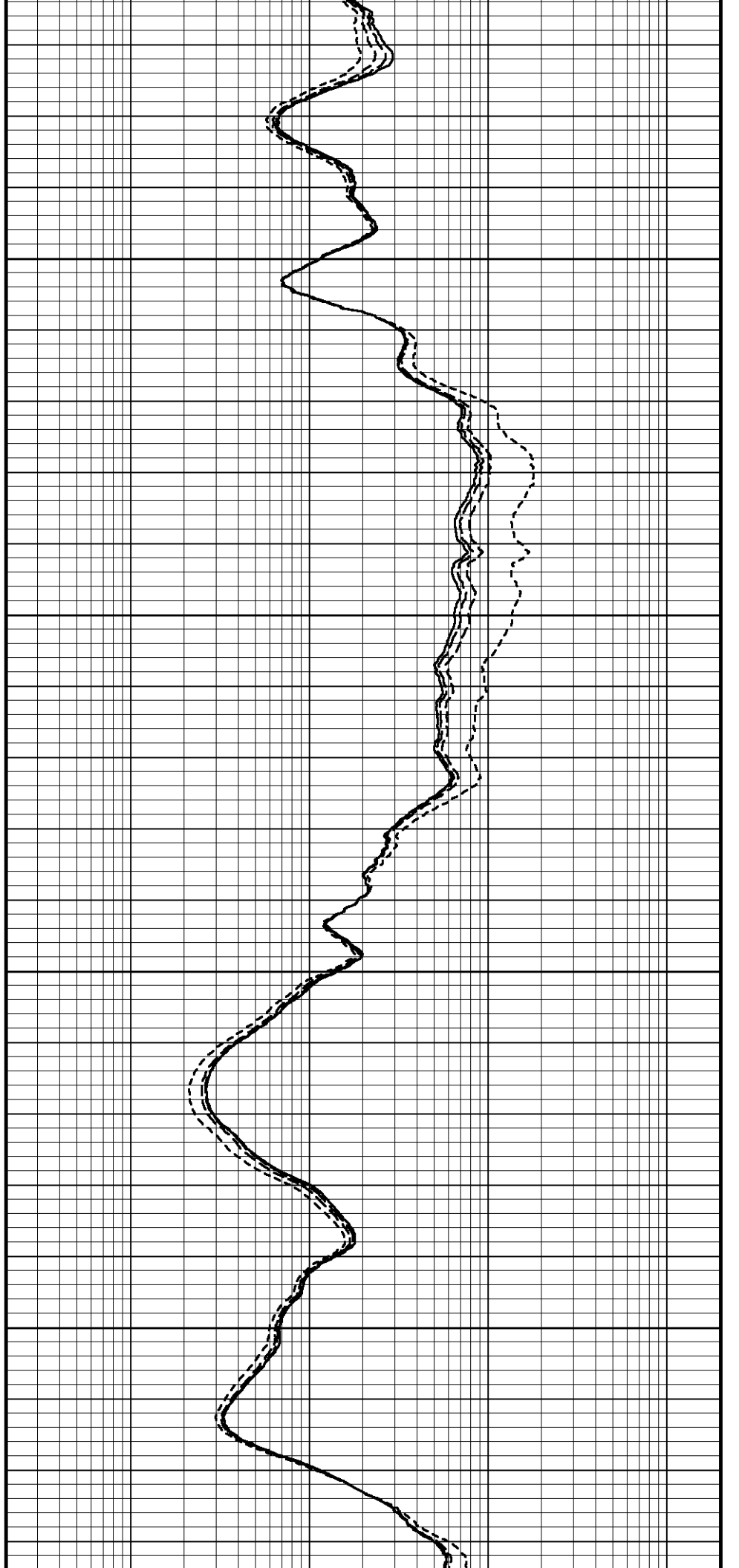
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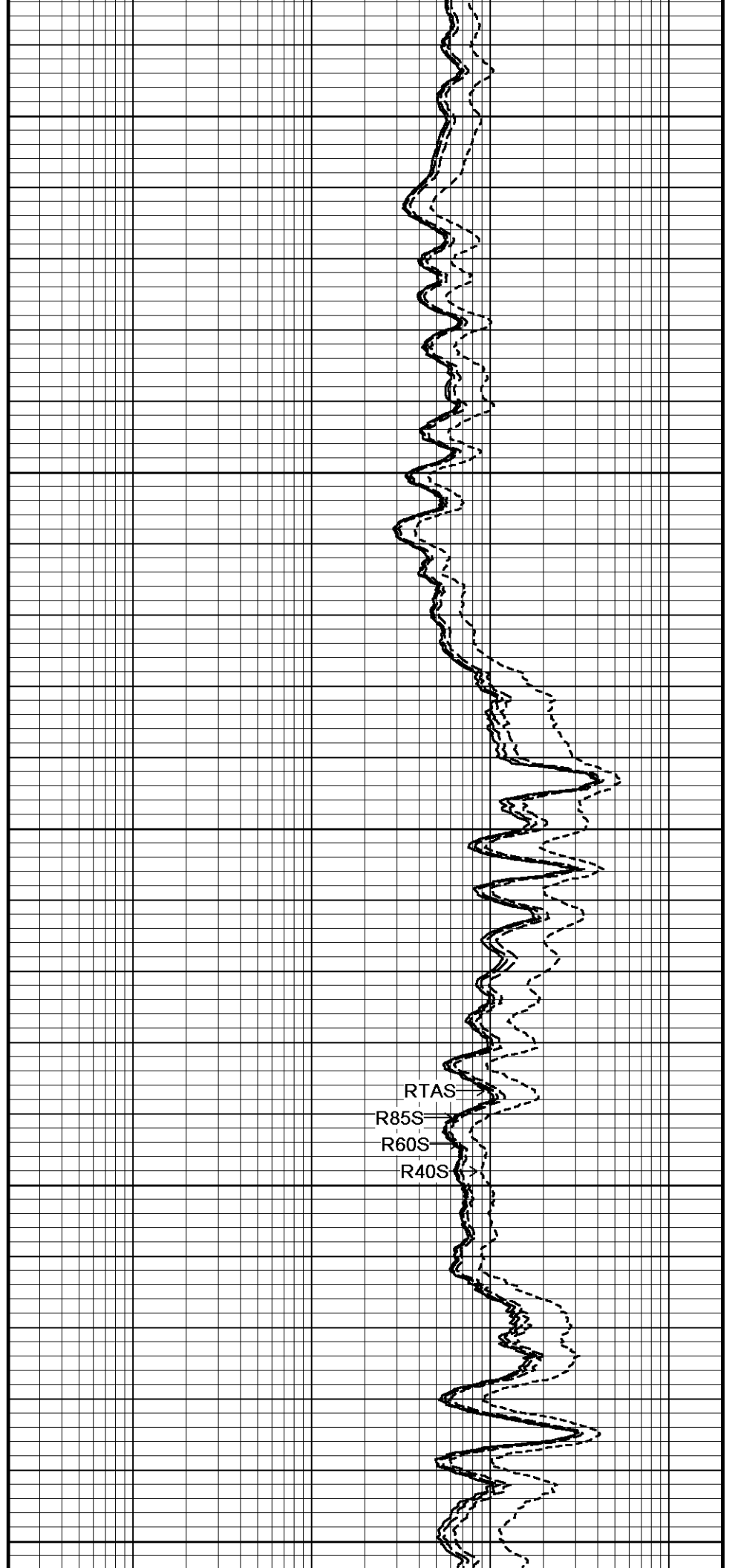
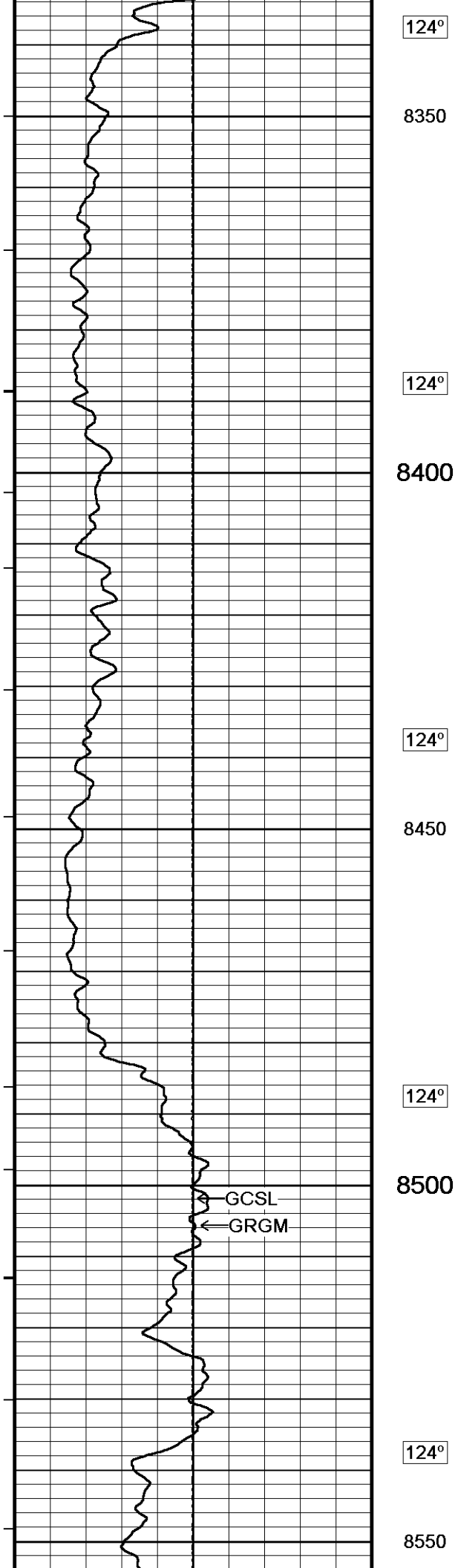
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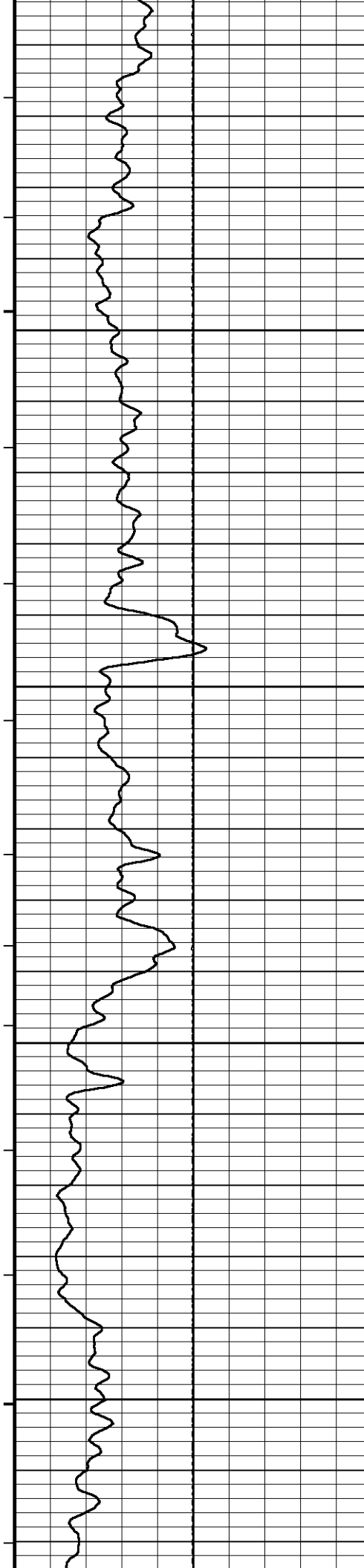
8250

124°

8300







124°

8600

124°

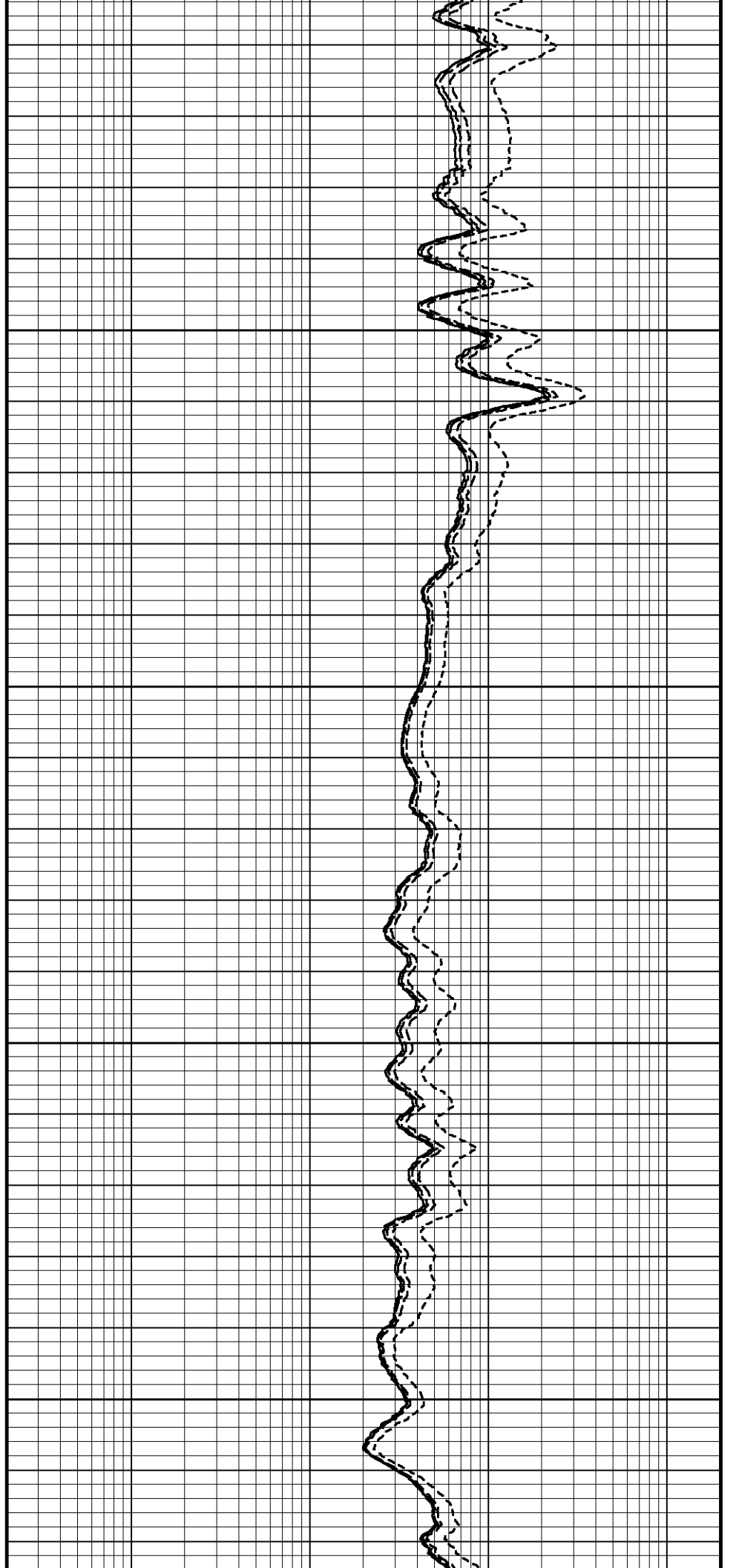
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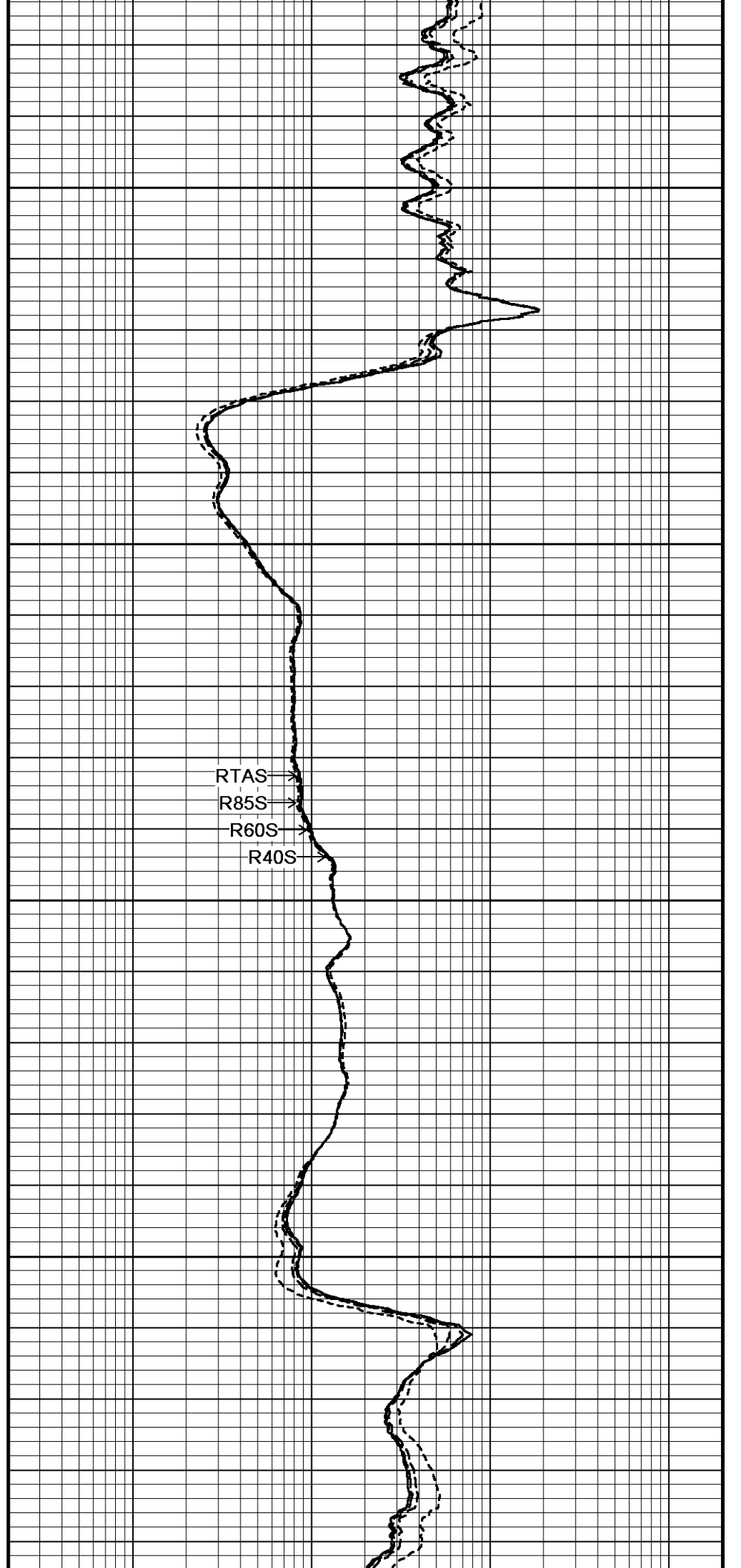
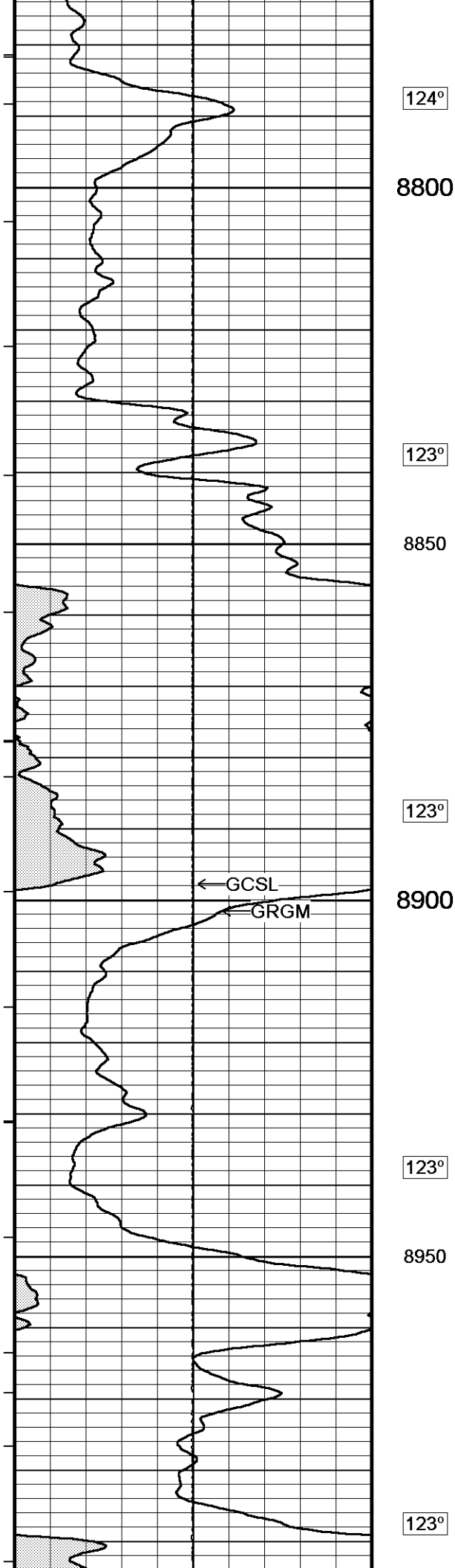
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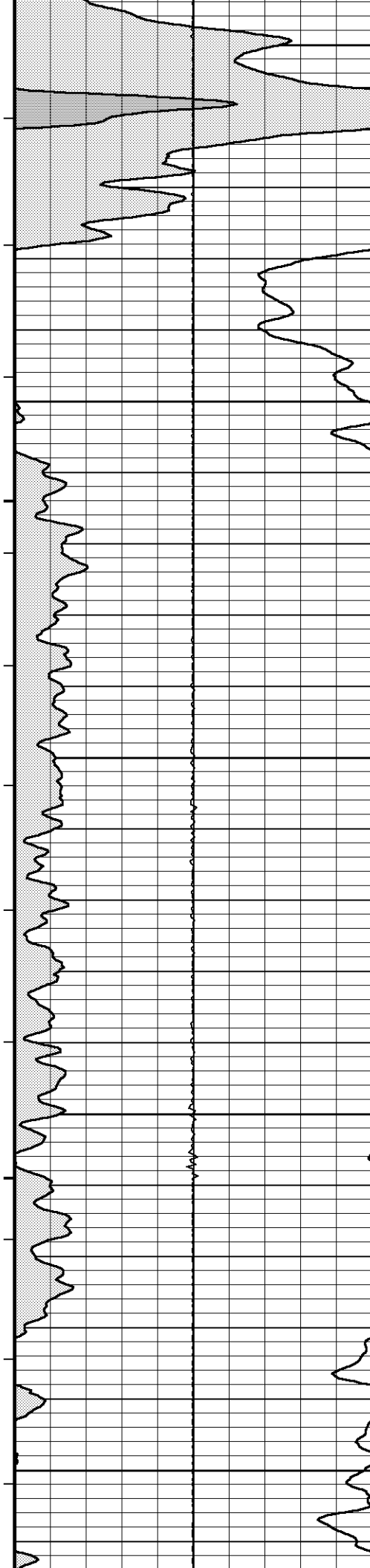
8700

124°

8750







9000

123°

9050

122°

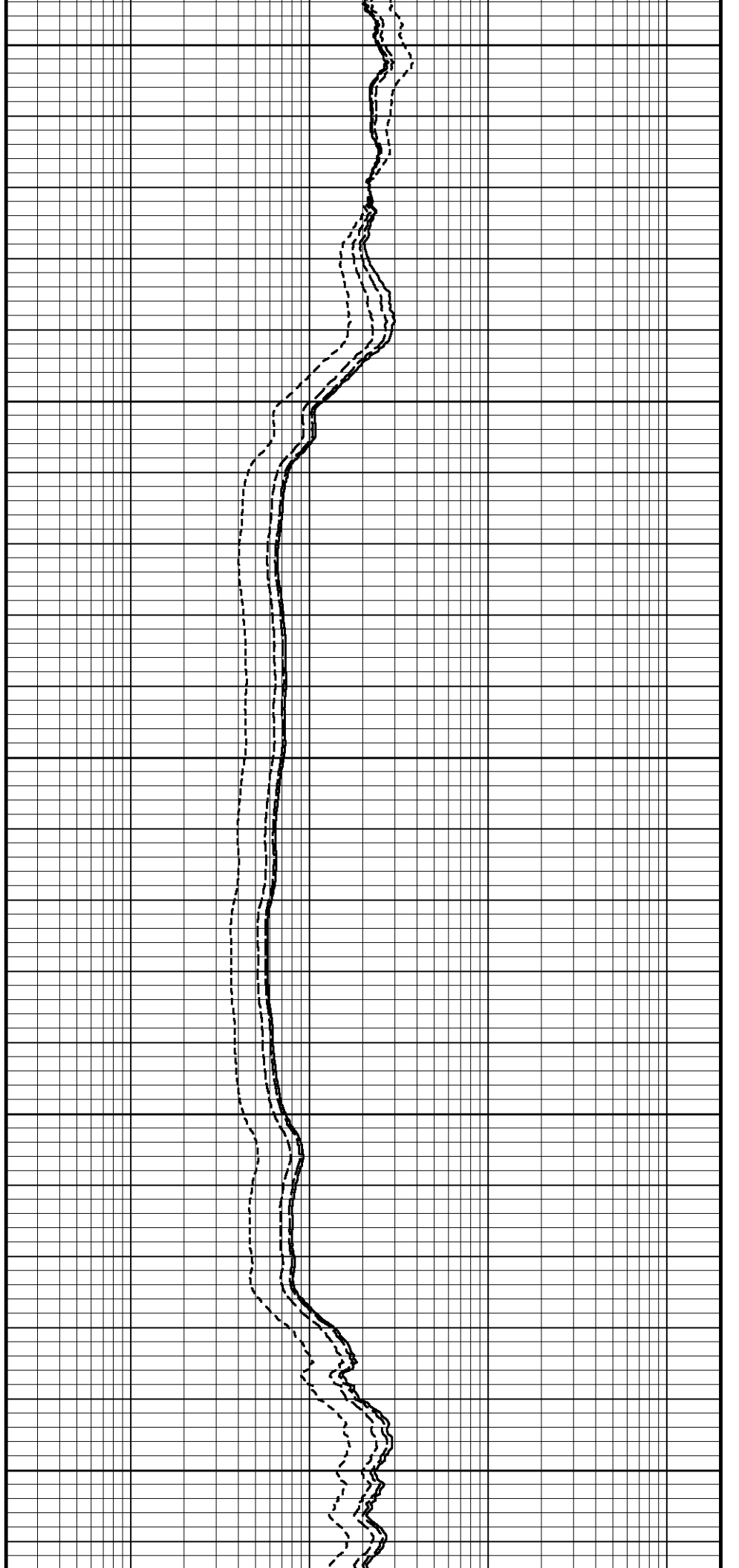
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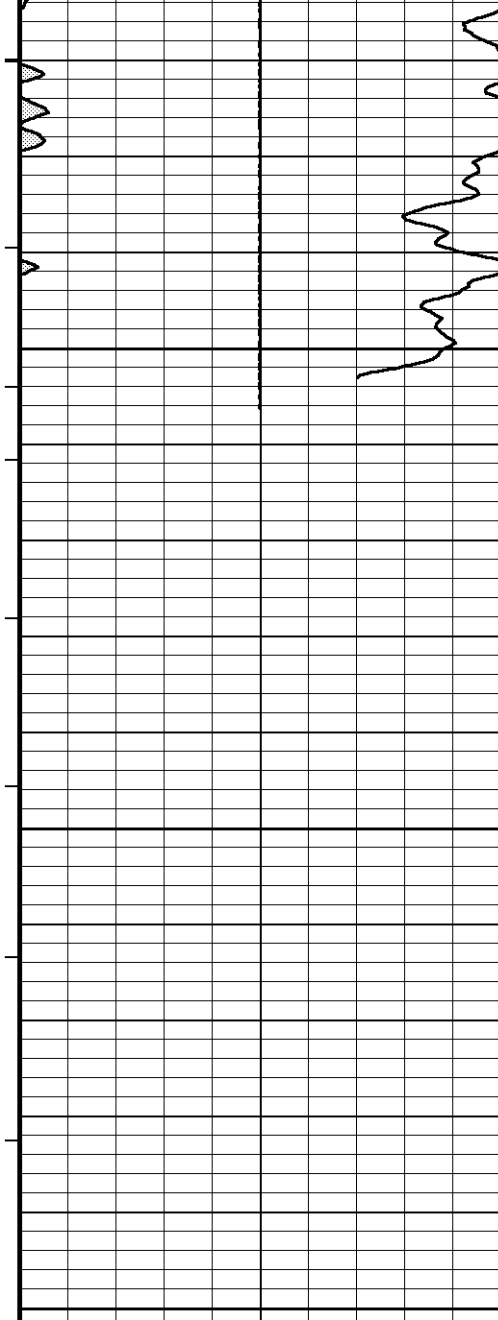
123°

9150

124°

9200





126°

9250

9300

9350

Depth
In
Feet

Timing Marks
every 60.0 sec

MGS Gamma Ray

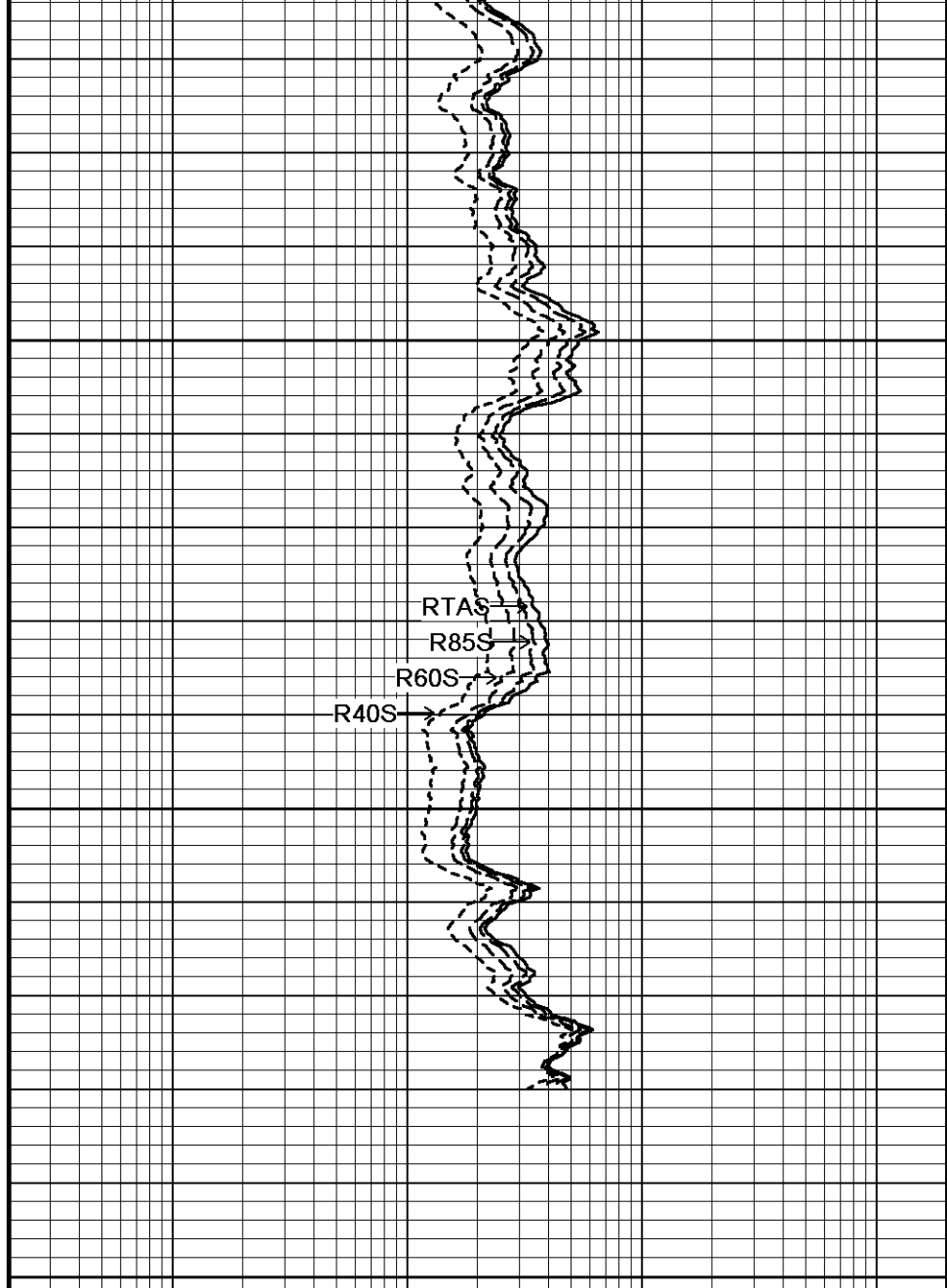
0	API	150
	75	
150	225	300

Borehole
Temp in
deg F

MCL C. Collar Locator

-10000	0	10000
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Replay
Scale
1:240



RTAS

R85S

R60S

R40S

Array Ind. Six Res 40
ohm metres

0.20	1	10	100	1000	2000
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Array Ind. Six Res 60
ohm metres

0.20	1	10	100	1000	2000
------	---	----	-----	------	------

Array Ind. Six Res 85
ohm metres

0.20	1	10	100	1000	2000
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Array Ind. Six Res Rt
ohm metres

0.20	1	10	100	1000	2000
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↑

5 INCH MAIN LOG

↑

BEFORE SURVEY CALIBRATION

C:\Data\Sandridge Elsey 1-1H\Elsey 1-1 rtap depth.dta

General Constants All 000			Last Edited on 16-NOV-2012,12:24		
General Parameters					
Mud Resistivity	0.140		ohm-metres		
Mud Resistivity Temperature	70.000		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	Base Density Porosity				
Resistivity used	Array Ind. One Res Rt				
RWA Constant A	0.610				
RWA Constant M	2.150				

Strain Gauge Constants MMS-E.B 157			Last Edited on 08-NOV-2012,09:49		
Atmospheric Pressure	14.70		psi		
Serial Number	260625				
Calibration Date	17-Sep-2010				
Base Check Date					
Dead Weight Serial Number	0				
Dead Weight Gravitational Correction	1.0				
Temperature	75.0		150.0		250.0
Pressure psia	Inc.	Dec.	Inc.	Dec.	Inc.
0.0	0.298	0.299	0.302	0.302	0.301
3000.0	5.475	5.479	5.479	5.481	5.477
6000.0	10.663	10.668	10.666	10.670	10.662
9000.0	15.860	15.867	15.863	15.870	15.858
12000.0	21.070	21.076	21.074	21.078	21.068
15000.0	26.293		26.298		26.291
					26.272
					350.0
					degrees F

Gamma Calibration MGS-C.J 142			Field Calibration on 15-NOV-2012 11:05		
	Measured		Calibrated (API)		
Background	141		104		
Calibrator (Gross)	1087		800		
Calibrator (Net)	946		696		

Gamma Constants MGS-C.J 142			Last Edited on 20-NOV-2012,09:37		
Gamma Calibrator Number	036				
Mud Density	1.03		gm/cc		
Caliper Source for Processing	Bit Size				
Tool Position	Eccentred				
Concentration of KCl	0.00		kppm		

SP Calibration MGS-C.J 142			Field Calibration on 12-SEP-2012,21:30		
	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 12-SEP-2012,21:30		
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	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 03-OCT-2012,15:14
Pre-filter Length	11

Neutron Calibration MDN-B.J 391				Base Calibration on 16-OCT-2012 13:23	
				Field Check on 20-NOV-2012,09:36	
Base Calibration					
		Measured		Calibrated (cps)	
	Near	Far		Near	Far
	3208	97		3714	110
Ratio		33.073		33.764	
Field Calibrator at Base					
				Calibrated (cps)	
				2191	3177
Ratio				0.690	
Field Check					
				Calibrated (cps)	
				2240	3336
Ratio					

Neutron Constants MDN-B.J 391			Last Edited on 20-NOV-2012,09:36		
Neutron Source Id	N1055				
Neutron Jig Number	N639				
Epithermal Neutron	No				
Caliper Source for Processing	Bit Size				
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	Constant Value				
Formation Pressure	0.00		kpsi		
Temperature Source	Constant Value				
Temperature	20.00		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.J 233				
Date Of Last Accelerometer Calibration		22-NOV-2011,16:08		
	X Accelerometer	Y Accelerometer	Z Accelerometer	
Slope	-1.106957	-1.101597	-1.096051	
Offset	0.006667	0.007744	-0.005892	

Accelerometer Constants MIE-A.J 233			Last Edited on 22-NOV-2011,16:08	
Accelerometer Calibrator Number		000		
Accelerometer Temperature Characterisation				
X Accelerometer				
Serial Number		1057		
Calibration Date		27-Apr-2011		
	B0	B1	B2	B3
Bias(g)	0.00000e+000	2.82020e-006	-3.02029e-008	1.94332e-010
	SF0	SF1	SF2	SF3
Scale Factor(mA/g)	3.00000e+000	2.77285e-004	1.89104e-007	1.67186e-009
Y Accelerometer				
Serial Number		1073		
Calibration Date		02-May-2011		
	B0	B1	B2	B3
Bias(g)	0.00000e+000	-1.04005e-005	2.19294e-008	-1.31489e-010
	SF0	SF1	SF2	SF3
Scale Factor(mA/g)	3.00000e+000	2.69223e-004	2.39527e-007	9.12553e-010

Z Accelerometer					
Serial Number	977				
Calibration Date	20-Jan-2011				
	B0	B1	B2	B3	
Bias(g)	0.00000e+000	1.86594e-005	1.00709e-008	3.83419e-011	
	SF0	SF1	SF2	SF3	
Scale Factor(mA/g)	3.00000e+000	2.74913e-004	2.75506e-007	1.29284e-009	
Imager Pad Check MIE-A.J 233				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.J 233				Last Edited on 10-MAY-2012,08:37	
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	30.00	degrees			
Correlation Interval	3.28	feet			
Correlation Step	1.64	feet			
Current Offset	0.0000	mAmp			
Squasher Start	N/A	mAmp			
Image Processing	Enabled				
Caliper Calibration MIE-A.J 233				Base Calibration on 22-NOV-2011 16:05 Field Calibration on 30-MAY-2012 14:18	
Base Calibration					
Reading No	Pads 1-5 Meas.	Pads 3-7 Meas.	Calibrator Size (in)		
1	25479	25668	5.96		
2	36118	36010	7.97		
3	45775	45499	9.84		
4	57747	57059	11.91		
5	0	0	0.00		
Reading No	Pad 2 Meas.	Pad 4 Meas.	Pad 6 Meas.	Pad 8 Meas.	Calibrator Size (in)
1	24613	24005	24629	24615	5.96
2	33696	32386	33383	33850	7.97
3	41885	40590	41925	42007	9.84
4	51911	50551	51787	51761	11.91
5	0	0	0	0	0.00
Field Calibration					
	Measured	Measured	Actual		
	Pads 1-5 Caliper(in)	Pads 3-7 Caliper(in)	Caliper(in)		
	6.32	6.07	6.00		
	Measured	Measured	Measured	Measured	Actual
	Pad 2 Caliper(in)	Pad 4 Caliper(in)	Pad 6 Caliper(in)	Pad 8 Caliper(in)	Caliper(in)
	3.16	2.92	2.93	3.13	6.00
Caliper Constants MIE-A.J 233				Last Edited on 22-NOV-2011,16:06	
Caliper Difference for BRKT	0.120	inches			
Magnetometer Parameters MIE-A.J 233					
Date Of Last Magnetometer Calibration	22-NOV-2011,16:09				
	X Magnetometer	Y Magnetometer	Z Magnetometer		
Slope	-1.000000	-1.002341	-0.997182		
Offset	0.005318	-0.018938	0.000387		
Magnetometer Constants MIE-A.J 233				Last Edited on	
Magnetometer Calibrator Number	000				
Navigation Constants MIE-A.J 233				Last Edited on 30-MAY-2012,14:22	

Induction Calibration MAI-A.A 170

Base Calibration on 02-FEB-2012 17:42

Field Check on 20-NOV-2012 09:27

Base Calibration

Test Loop Calibration

Channel	Measured		Calibrated (mmho/m)	
	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			10.9	3753.7
2			29.4	3530.1
3			27.1	2997.8
4			18.4	2043.1
Deep			15.4	1906.0
Medium			40.7	3982.0
Shallow			45.6	5291.7

Array Temperature 57.9 Deg F

Induction Constants MAI-A.A 170

Last Edited on 24-NOV-2012,09:22

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	0.0060	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-A.A 170

Field Calibration on 15-FEB-2012 01:37

	Measured	Calibrated(Deg F)
Lower	1.00	1.00
Upper	100.00	100.00

11

Base Calibration on 30-OCT-2012 12:18
Field Calibration on 15-NOV-2012 10:50

N/A

6 00

Base Calibration on 30-OCT-2012 12:42
Field Check on 20-NOV-2012 09:36

2522

1311 0

1315 1

0.271

947.9

947.3

Last Edited on 20-NOV-2012.09:29

0.00

DOWNHOLE EQUIPMENT

C:\Data\Sandridge Elsey 1-1H\Elsey 1-1 rtap depth.dta

Shuttle Running Tool 3.5")
SRT-A.A 69 LG: 6.62 ft WT: 37.5 lb OD: 2.52 in

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

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

MBS-Empty Battery
MLK-A 3 LG: 16.31 ft WT: 30.9 lb OD: 2.24 in

MBS-G.A 200v Compact Battery Sub
MBS-G.A 113 LG: 17.06 ft WT: 123.5 lb OD: 2.24 in

Compact Memory Sub E.B
MMS-E.B 157 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

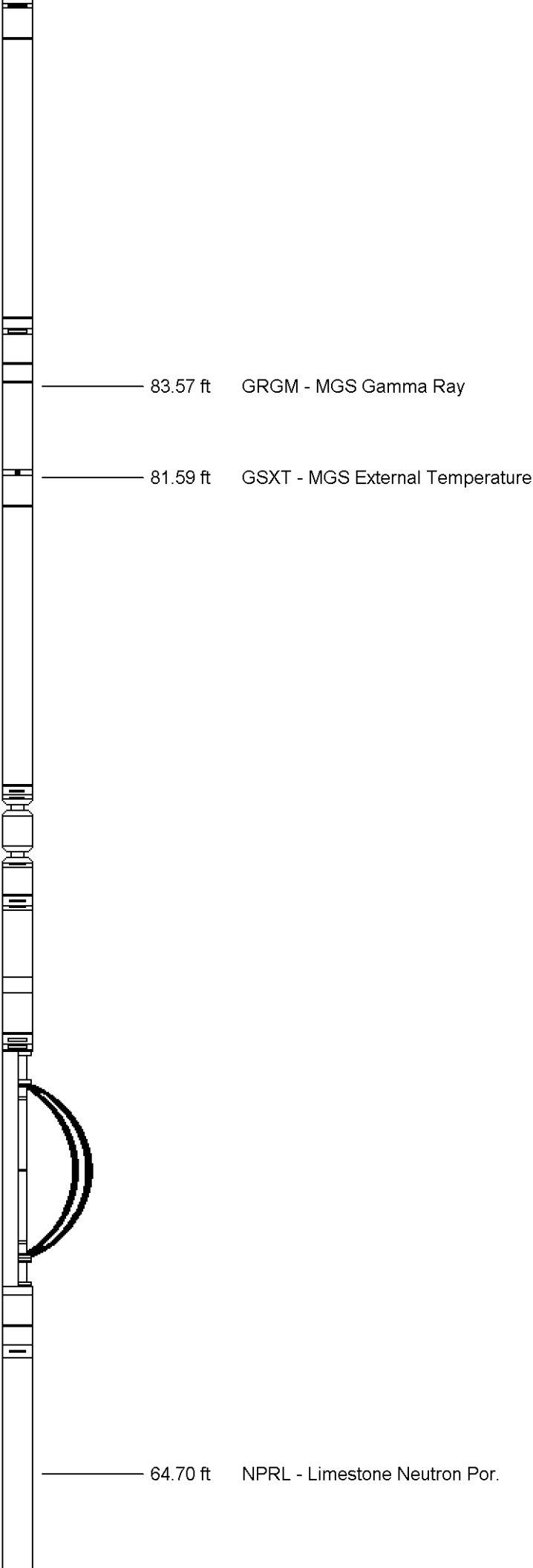
Compact Collar Locator
MCL-B.J 63 LG: 3.17 ft WT: 26.5 lb OD: 2.24 in

SKJ-E.B Compact Knuckle Joint
SKJ-E.B 474 LG: 2.17 ft WT: 24.3 lb OD: 2.24 in

SHA-J.B Compact Swivel Head Adaptor
SHA-J.B 458 LG: 2.30 ft WT: 22.0 lb OD: 2.24 in

MIS-D.A Compact Inline Bowspring sub
MIS-D.A 277 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



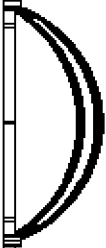
Compact Density/Caliper
MPD-C.J 394 LG: 9.59 ft WT: 90.4 lb OD: 2.24 in



57.46 ft
55.53 ft
55.53 ft
55.53 ft
55.47 ft

CLDC - Density Caliper
DCOR - Density Correction
DEN - Compensated Density
DPRL - Limestone Density Por.
PDPE - PE

MIS-D.A Compact Inline Bowspring sub
MIS-D.A 310 LG: 5.70 ft WT: 33.1 lb OD: 2.24 in



SHA-J.A Compact Swivel Head Adaptor
SHA-J.A 434 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 606 LG: 5.70 ft WT: 33.1 lb OD: 2.24 in



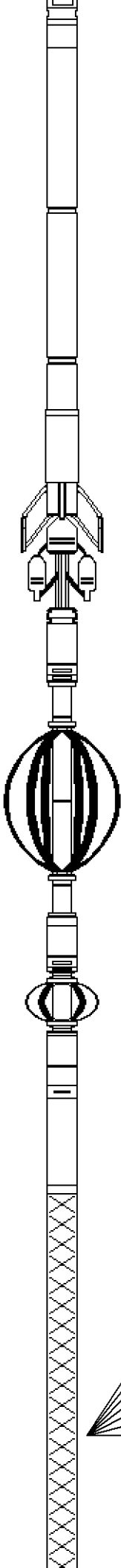
Compact MMI Memory Section
MIM-B.A 251 LG: 4.65 ft WT: 26.5 lb OD: 2.24 in

Compact MMI Electrode Section
MIE-A.J 233 LG: 13.96 ft WT: 99.2 lb OD: 4.09 in

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

MIS-E.B Compact Inline Standoff sub
MIS-E.B 577 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 CTAF - Array Ind. Four Cond Ct
- 3.34 ft R20F - Array Ind. Four Res 20
- 3.34 ft R30F - Array Ind. Four Res 30
- 3.34 ft R40F - Array Ind. Four Res 40
- 3.34 ft R60F - Array Ind. Four Res 60
- 3.34 ft R85F - Array Ind. Four Res 85
- 3.34 ft RTAF - Array Ind. Four Res Rt



Tool Zero

(1.84ft from bottom)

Total Length: 149.33 ft Weight: 903.9 lb All measurements relative to tool zero.

COMPANY Sandridge Energy
WELL Elsey 3025 1-1H
FIELD Sabine Pass
PROVINCE/COUNTY Clark
COUNTRY/STATE U.S.A. / Kansas

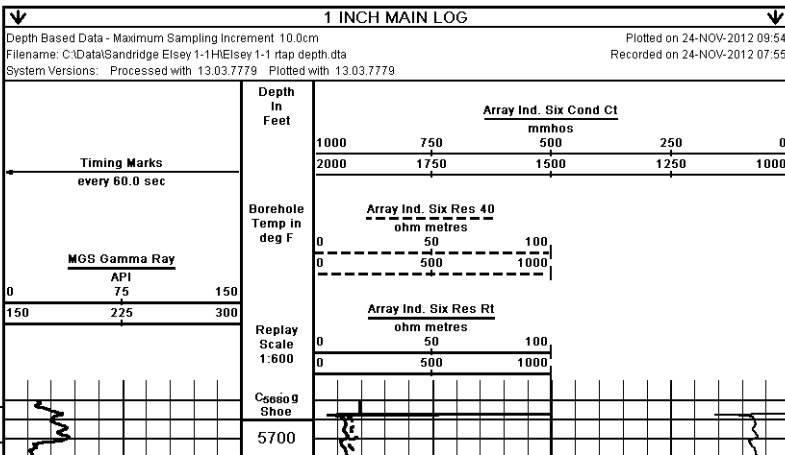
Elevation Kelly Bushing	2585.00	feet	First Reading	9329.00	feet
Elevation Drill Floor	2585.00	feet	Depth Driller	9350.00	feet
Elevation Ground Level	2567.00	feet	Depth Logger	9350.00	feet

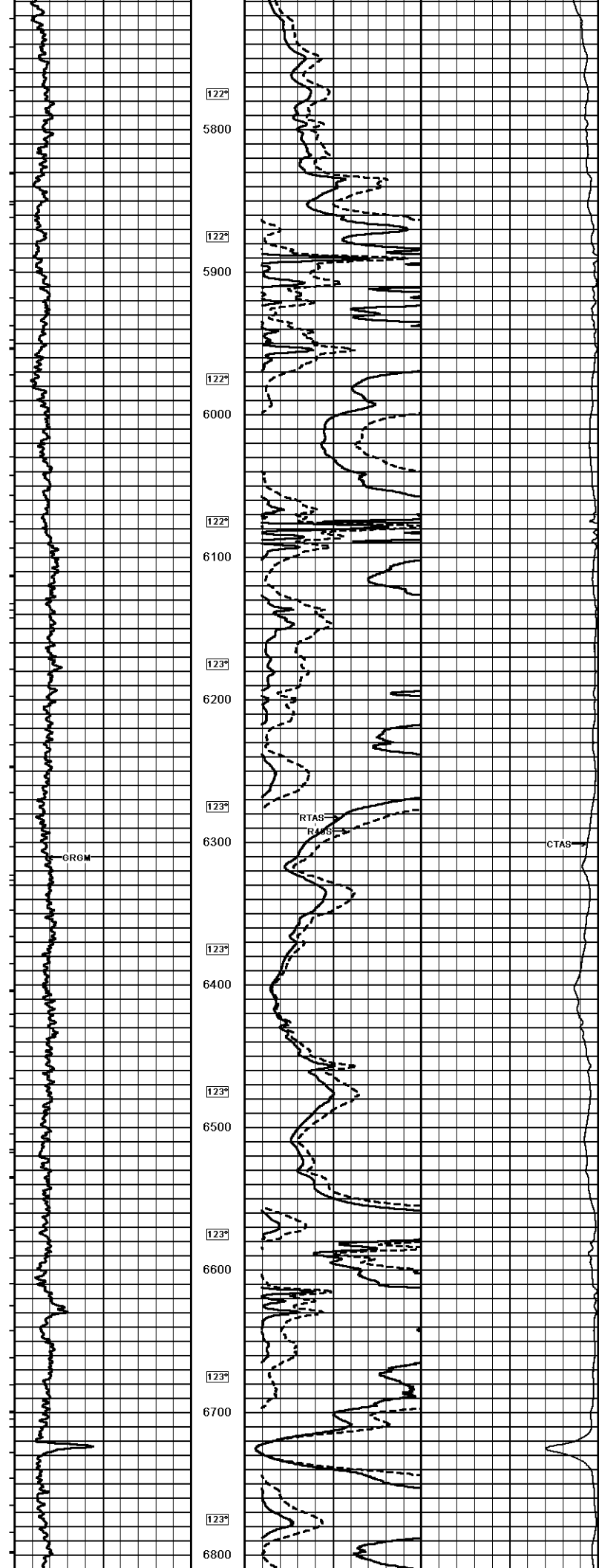


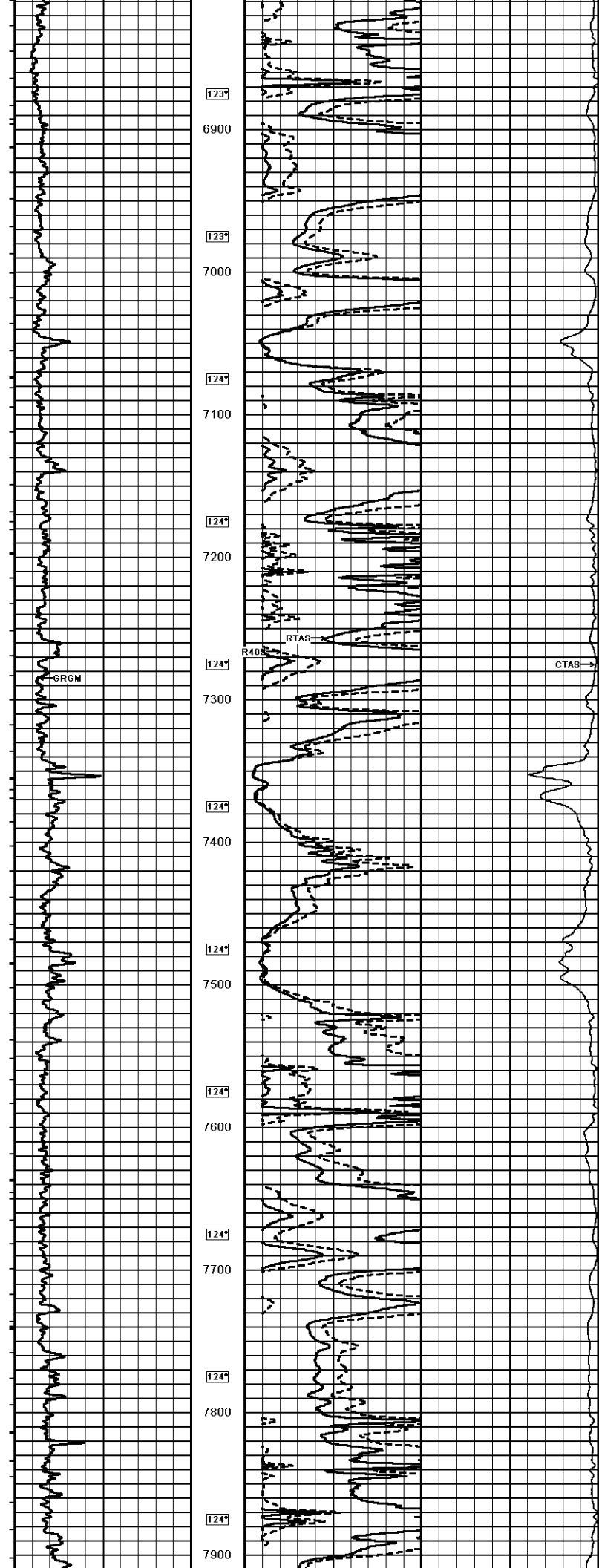
CML MESSENGER SHUTTLE
ARRAY INDUCTION

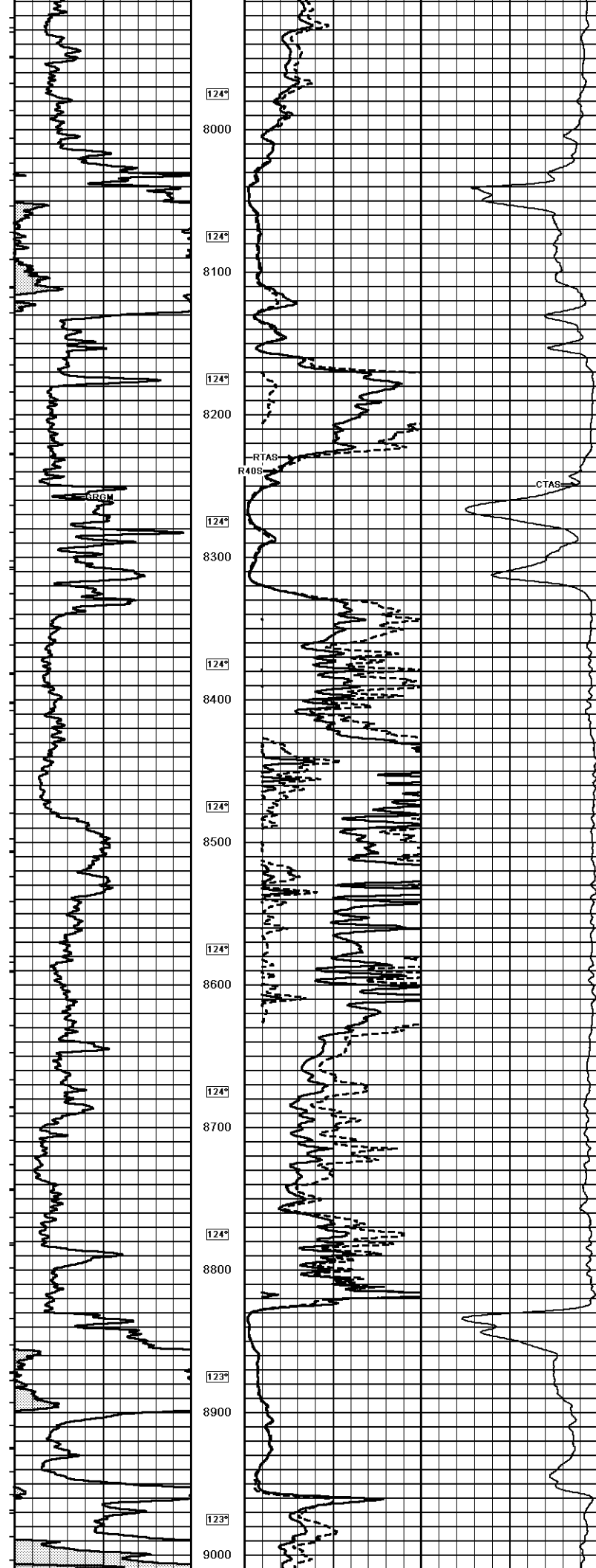
Weatherford®

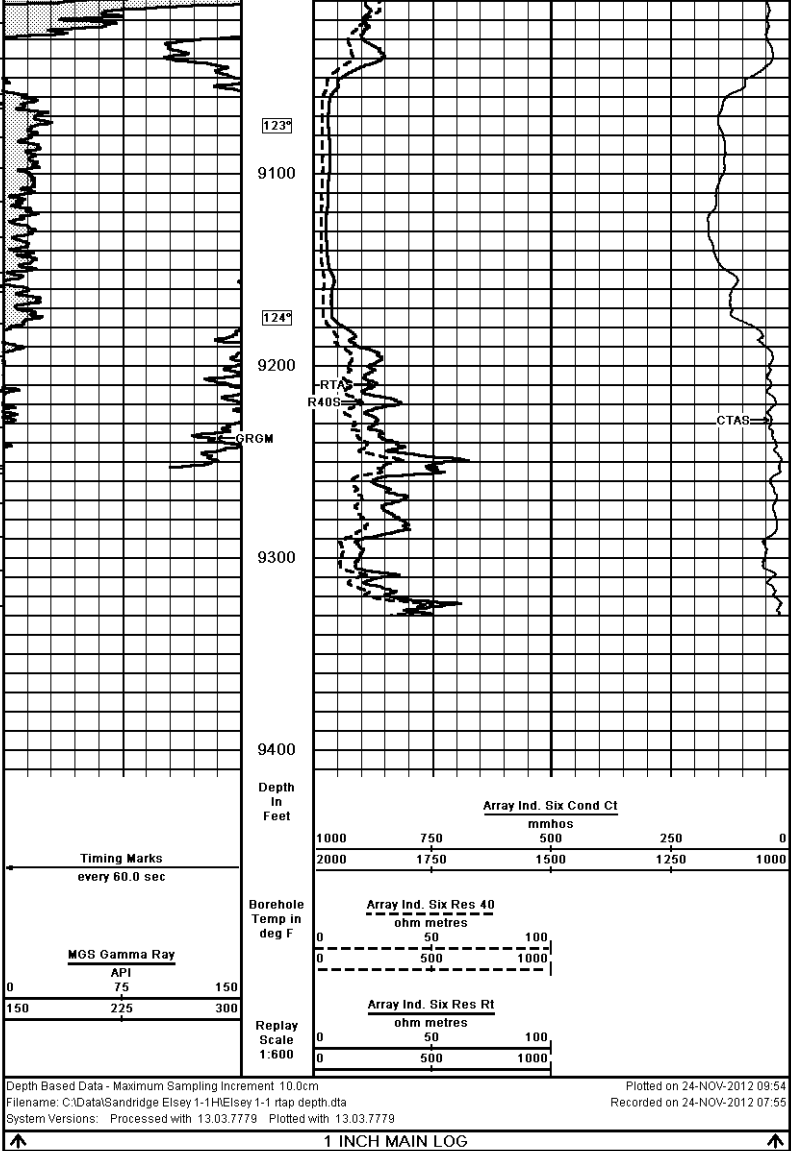
Weatherford		CML MESSENGER SHUTTLE ARRAY INDUCTION	
COMPANY	Sandridge Energy	WELL	Elsey 3025 1-1H
FIELD	Sabine Pass	PROVINCE/COUNTY	Clark
COUNTRY/STATE	U.S.A. / Kansas	LOCATION	200' FNL & 660' FEL
SEC	1	TIME	30S
TIME	125W	Other Services	CM
Serial Number	15405-21940	MP/DMDN	
Permanent Datum O.L. Elevation 2567 feet		Log Measured From KB	
Drilling Measured From K/B @ 18 feet		Date	23-NOV-2012
Run Number	One	Depth Driller	9350.00 feet
Depth Logger	9350.00 feet	First Reading	9329.00 feet
Last Reading	9350.00 feet	Casing Driller	5690.00 feet
Bit Size	6.125 inches	Flowline	1.31 @ 18.0 ohm-m
Flow Fluid Type	WBM	PH / Fluid Loss	10.00
Density / Viscosity	8.90 lbm/gal	Sample Source	Flowline
PH / Fluid Loss	7.80 ml/50min	Rmt @ Measured Temp	1.31 @ 18.0 ohm-m
Rmt @ Measured Temp	1.05 @ 18.0 ohm-m	Rmt @ Measured Temp	1.37 @ 18.0 ohm-m
Source Rmt / Rinc	Calc	Rmt @ BHT	0.81 @ 25.0 ohm-m
Time Since Circulation	1 hour	Max Recorded Temp	125.00 deg F
Equipment Name	Compact	Equipment / Base	18077 OKC
Recorded By	Steven Tobey	Witnessed By	Magpie Roden
SC # / AE #	3538589	DOC#	12392











COMPANY		Sandridge Energy			
WELL		Elsey 3025 1-1H			
FIELD		Sabine Pass			
PROVINCE/COUNTY		Clark			
COUNTRY/STATE		U.S.A. / Kansas			
Elevation Kelly Bushing	2585.00	feet	First Reading	9329.00	feet
Elevation Drill Floor	2585.00	feet	Depth Driller	9350.00	feet
Elevation Ground Level	2567.00	feet	Depth Logger	9350.00	feet
 CML MESSENGER SHUTTLE ARRAY INDUCTION					