



**Weatherford**<sup>®</sup>

**CML IMPULSE SHUTTLE  
ARRAY INDUCTION  
ELECTRIC LOG**

COMPANY SANDRIDGE ENERGY  
 WELL ANITA 3420 1-12H  
 FIELD ANNA MAE SOUTHWEST  
 PROVINCE/COUNTY COMANCHE  
 COUNTRY/STATE USA \ KANSAS  
 LOCATION N2 N2 NW NE  
 200' FNL & 1980' FEL of NE/4

SEC 12 TWP 34S RGE 20W Other Services MPD/MDN  
 API Number 15-033-21673  
 Permit Number  
 Permanent Datum GL, Elevation 1793 feet  
 Log Measured From KB  
 Drilling Measured From KB @ 21' AGL

Date	15-NOV-2012	Elevations:	KB 1814.00 DF 1814.00 GL 1793.00
Run Number	ONE		
Depth Driller	9576.00	feet	
Depth Logger	9576.00	feet	
First Reading	9538.00	feet	
Last Reading	4880.00	feet	
Casing Driller	5497.00	feet	
Casing Logger	5450.00	feet	
Bit Size	6.125	inches	
Hole Fluid Type	WATER		
Density / Viscosity	8.60 lb/USg	27.00 CP	
PH / Fluid Loss	9.50		
Sample Source	FLOWLINE		
Rm @ Measured Temp	1.10 @ 70.0	ohm-m	
Rmf @ Measured Temp	0.88 @ 70.0	ohm-m	
Rmc @ Measured Temp	1.32 @ 70.0	ohm-m	
Source Rmf / Rmc	CALC	CALC	
Rm @ BHT	0.60 @ 132.0	ohm-m	
Time Since Circulation	12 HOURS		
Max Recorded Temp	132.00	deg F	
Equipment Name	COMPACT		
Equipment / Base	18077	OKC	
Recorded By	GUTHMUELLER		ALLEN
Witnessed By	J HILEMAN		K GENTRY
AFE# DC12332	SO# 3538586		

**BOREHOLE RECORD**

Last Edited: 15-NOV-2012 17:14

Bit Size inches	Depth From feet	Depth To feet
17.500	0.00	305.00
12.250	305.00	1000.00
8.750	1000.00	5497.00
6.125	5497.00	9576.00

**CASING RECORD**

Type	Size inches	Depth From feet	Shoe Depth feet	Weight pounds/ft
COND	13.375	0.00	305.00	54.00
SURF	9.625	0.00	1000.00	36.00
INTER	7.000	0.00	5497.00	26.00

**REMARKS**

LOGGED WITH WLS 10.03.7779 SOFTWARE

TOOLS DEPLOYED USING CML IMPULSE METHOD

TOOLS RAN: SMR-167, SER-150,200V MBS-115,MMSE133,MTI-076, MGS-142,MCL-063,SKJ-472,SHA-438,MIS-608, MDN-391, MPD-394,MIS-607, SHA-167, SKJ-479,MISB-5958,MFE-363,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

0.71 G/CC DENSITY MATRIX USED TO CALCULATE POROSITY

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

ALL LOGS WERE SET TO PIPE STRAP AND COMPARED TO MWD LOGS.  
 FLAT SPOT FROM 5670 - 5736 CAUSEED BY TOTCO ERROR

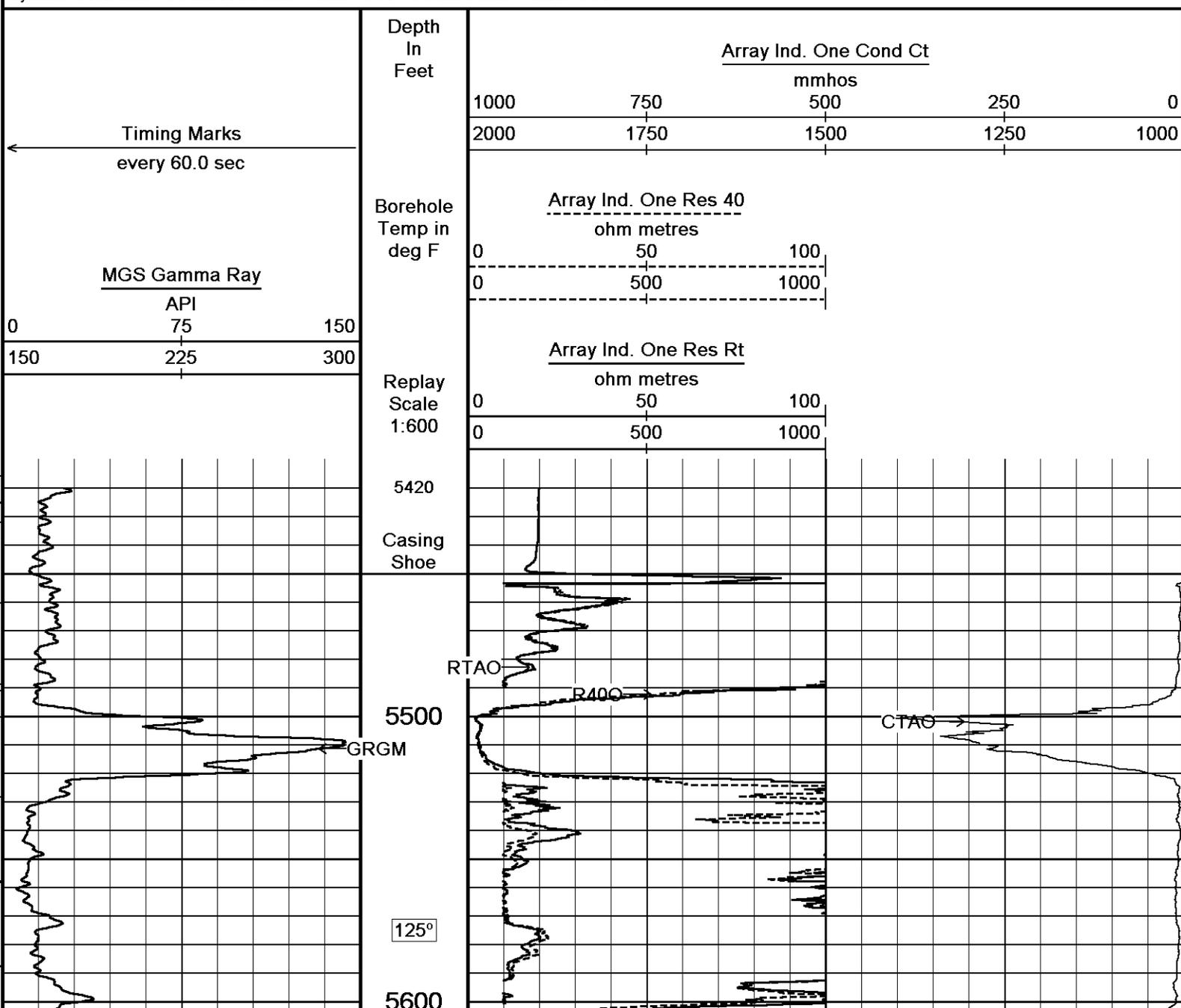
DRILL PIPE DEPTH DURING DEPLOYMENT: 9456.2  
 LOGGING TOOL DEPTH AFTER DEPLOYMENT: 9542

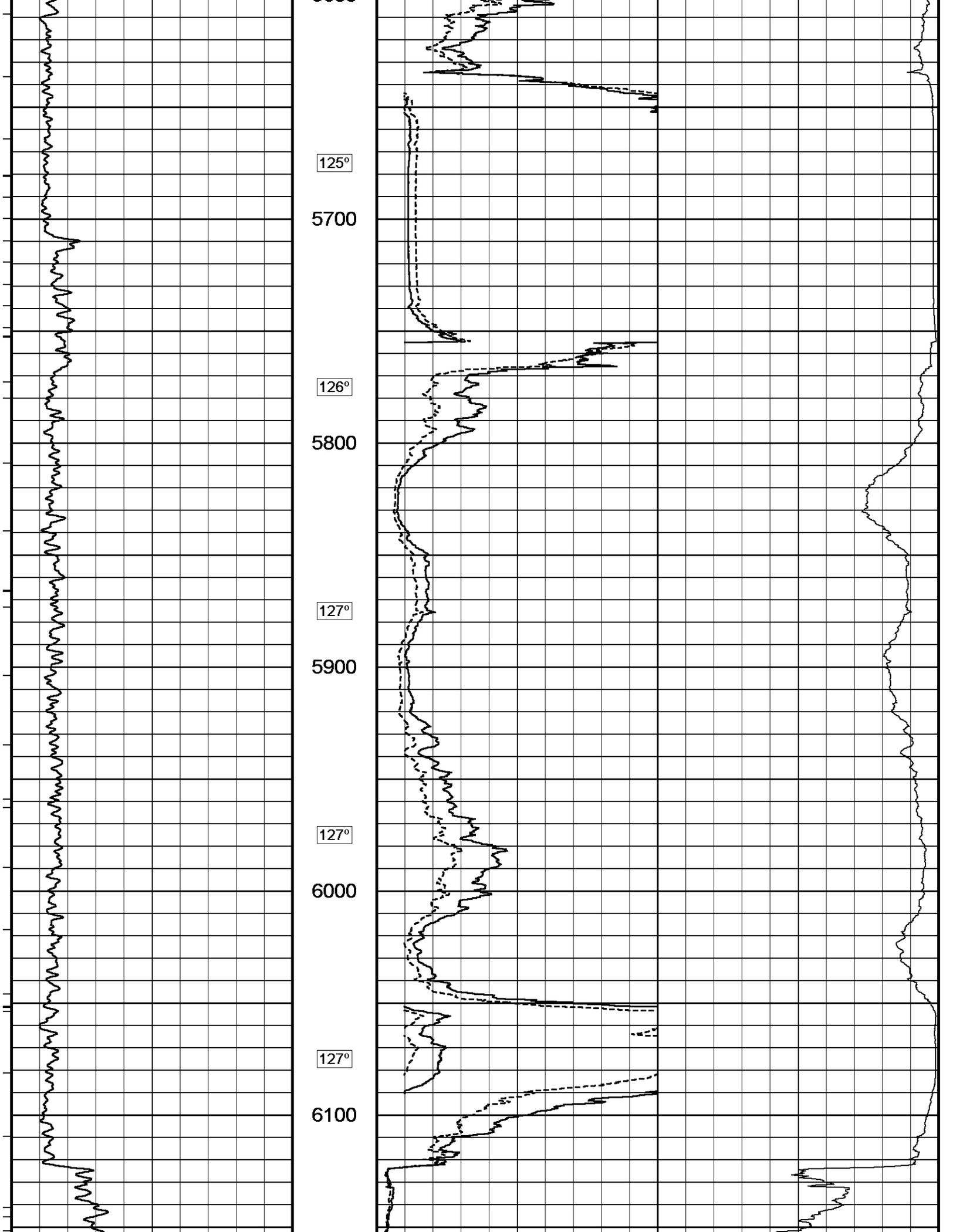
OPERATORS: J TURNER, K CHAFFIN  
 S.O: 3538586  
 RIG: LARIAT 19

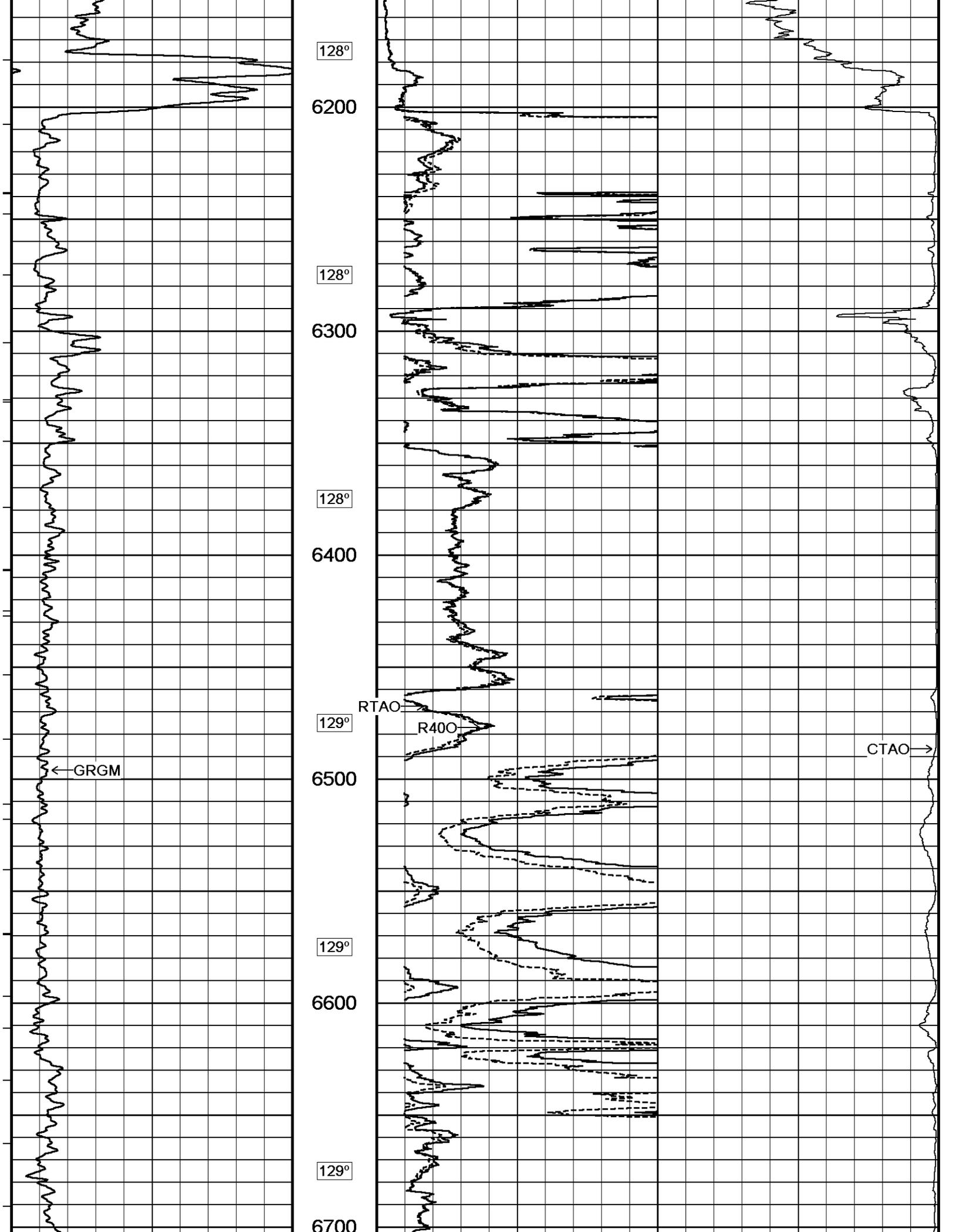
All interpretations are opinions based on inferences from electrical or other measurements and we cannot, and do not, guarantee the accuracy or correctness of any interpretations, and we shall not, except in the case of gross or wilful negligence on our part, be liable or responsible for any loss, costs, 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.

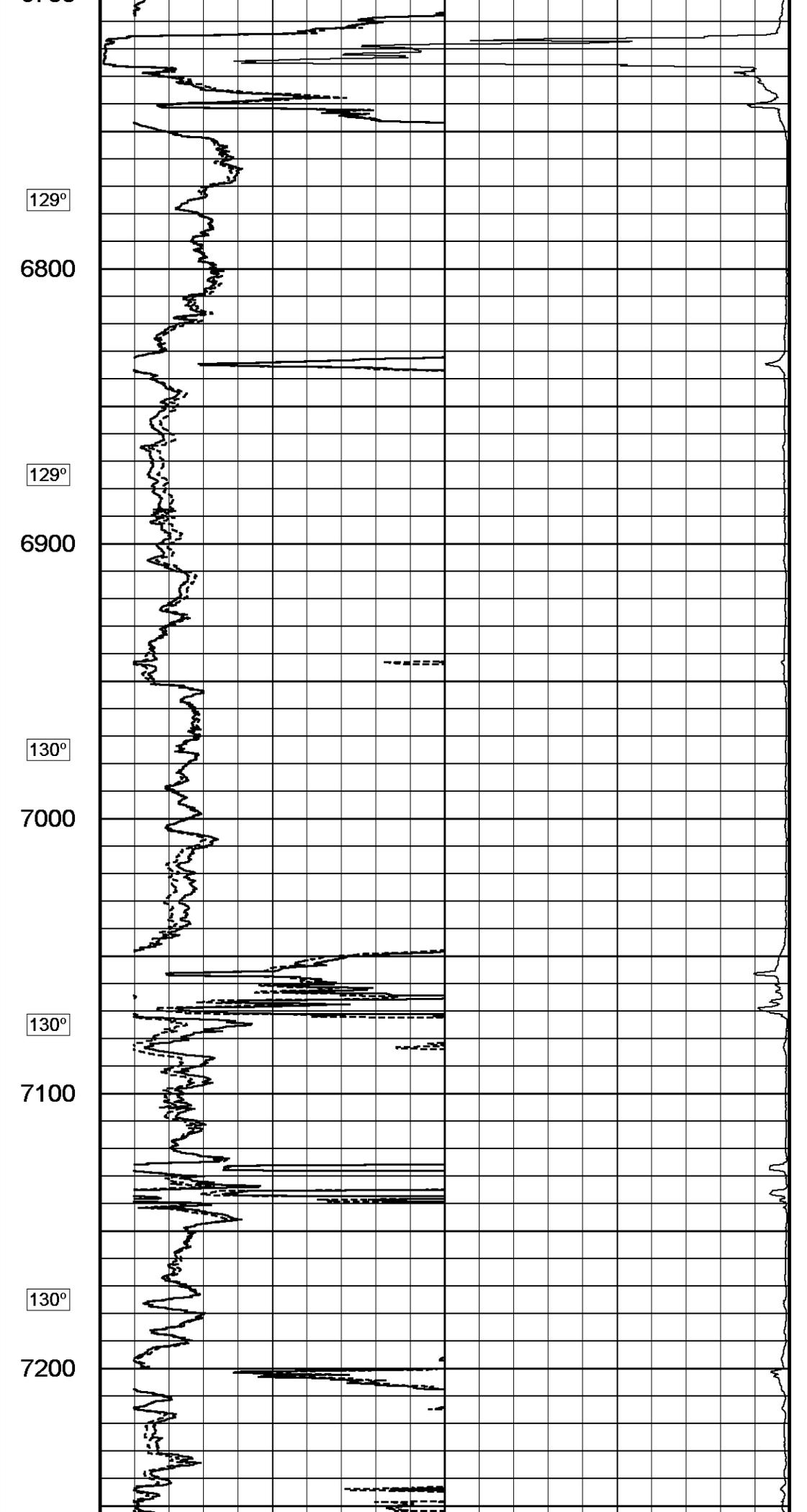
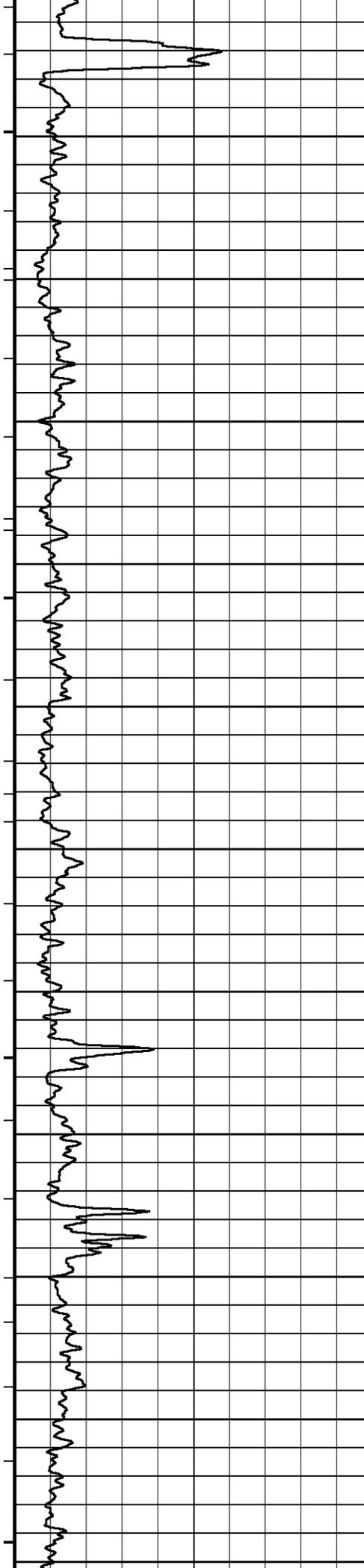
**2 INCH MAIN LOG**

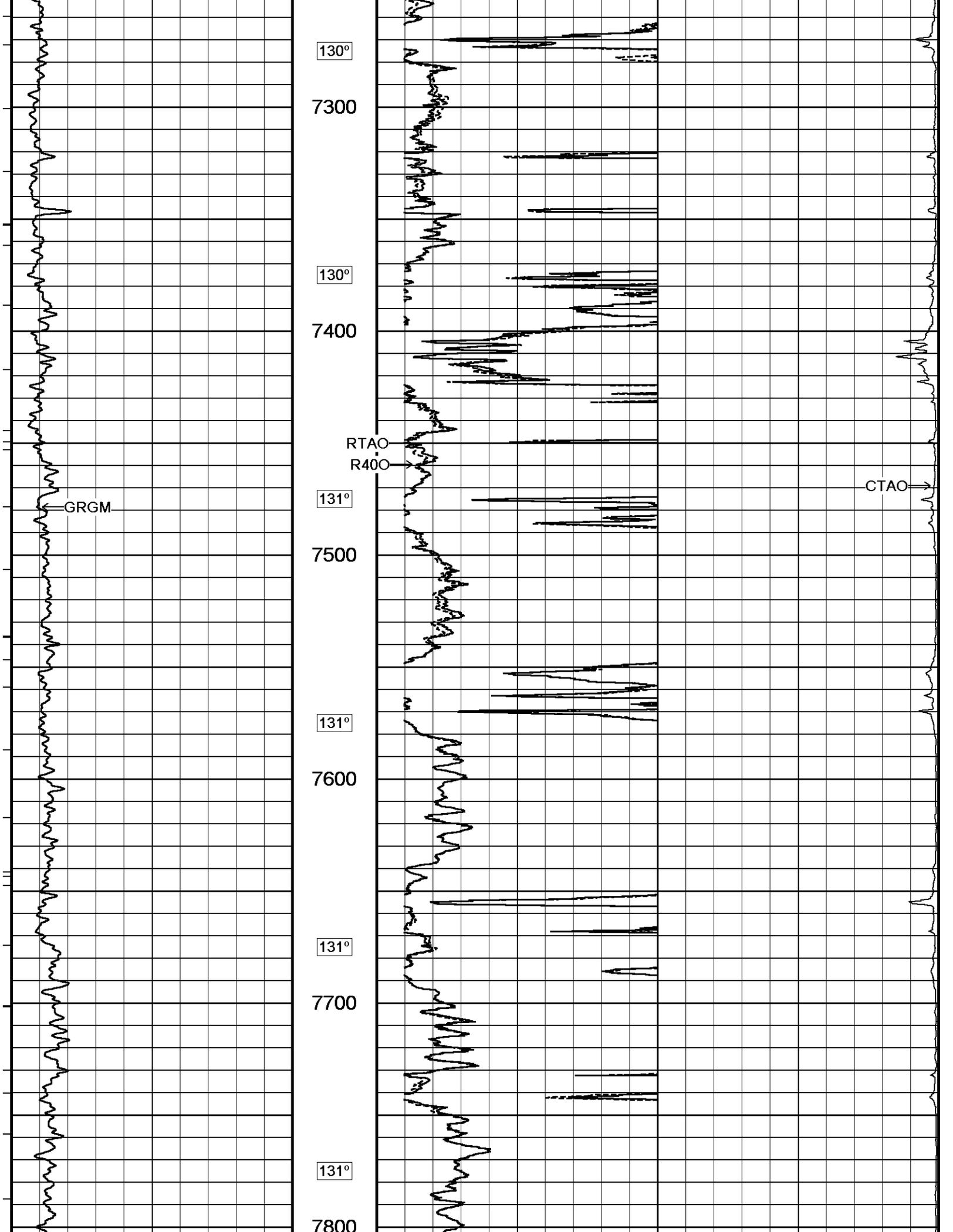
Depth Based Data - Maximum Sampling Increment 10.0cm Plotted on 16-NOV-2012 18:22  
 Filename: C:\Data\SANDRIDGE FOLDER\SANDRIDGE ANITA 3420 1-12H\33021RTAP.dta Recorded on 16-NOV-2012 12:12  
 System Versions: Processed with 13.03.7779 Plotted with 13.03.7779

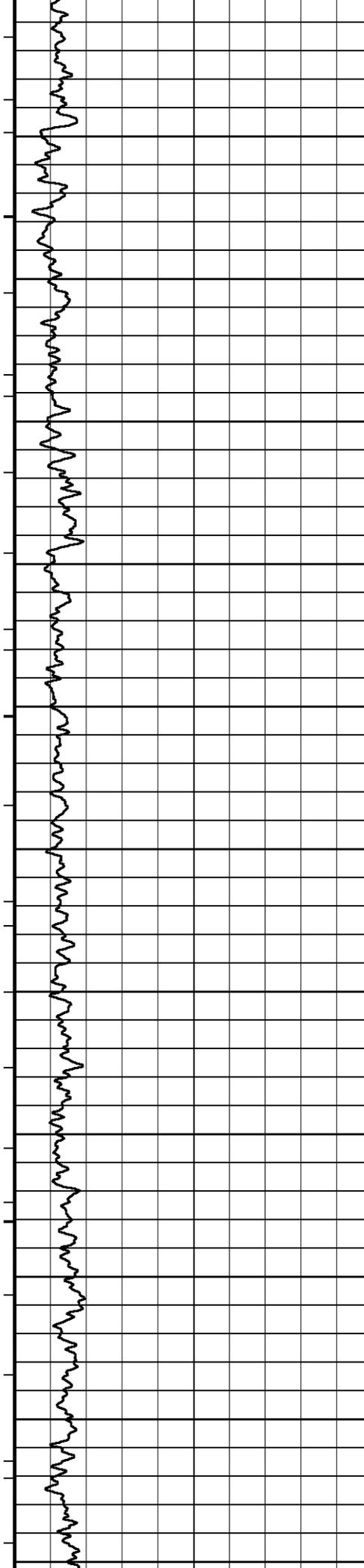




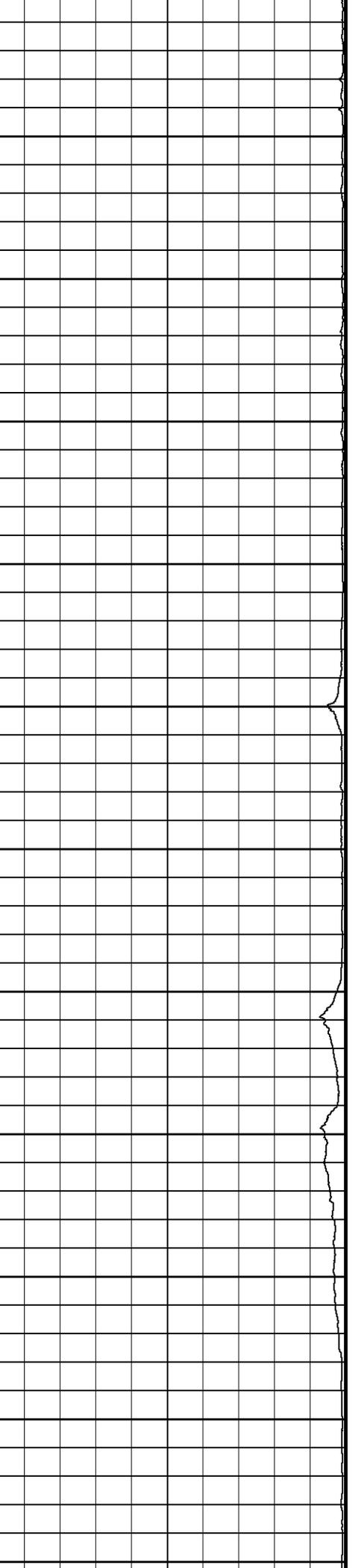
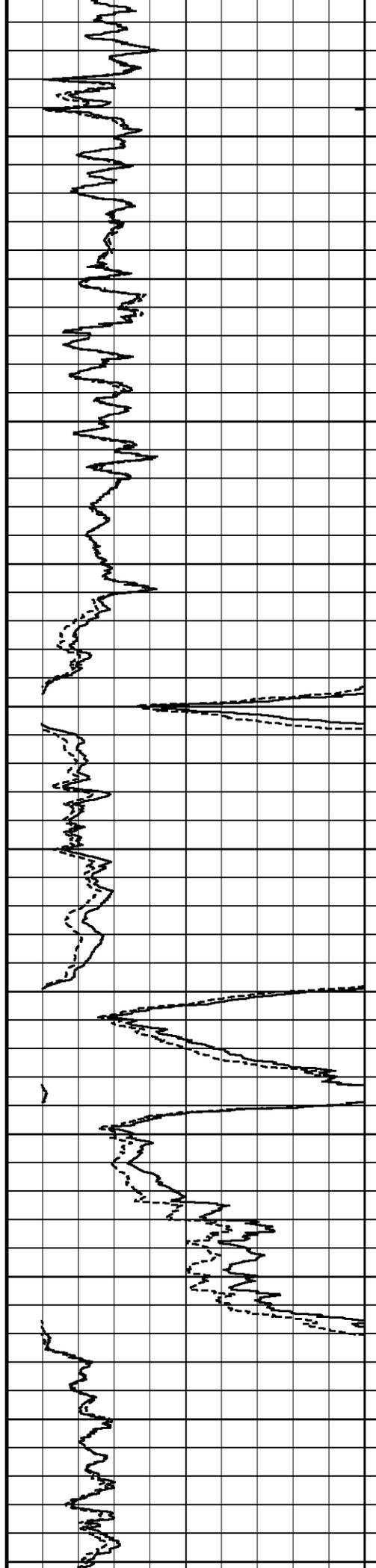


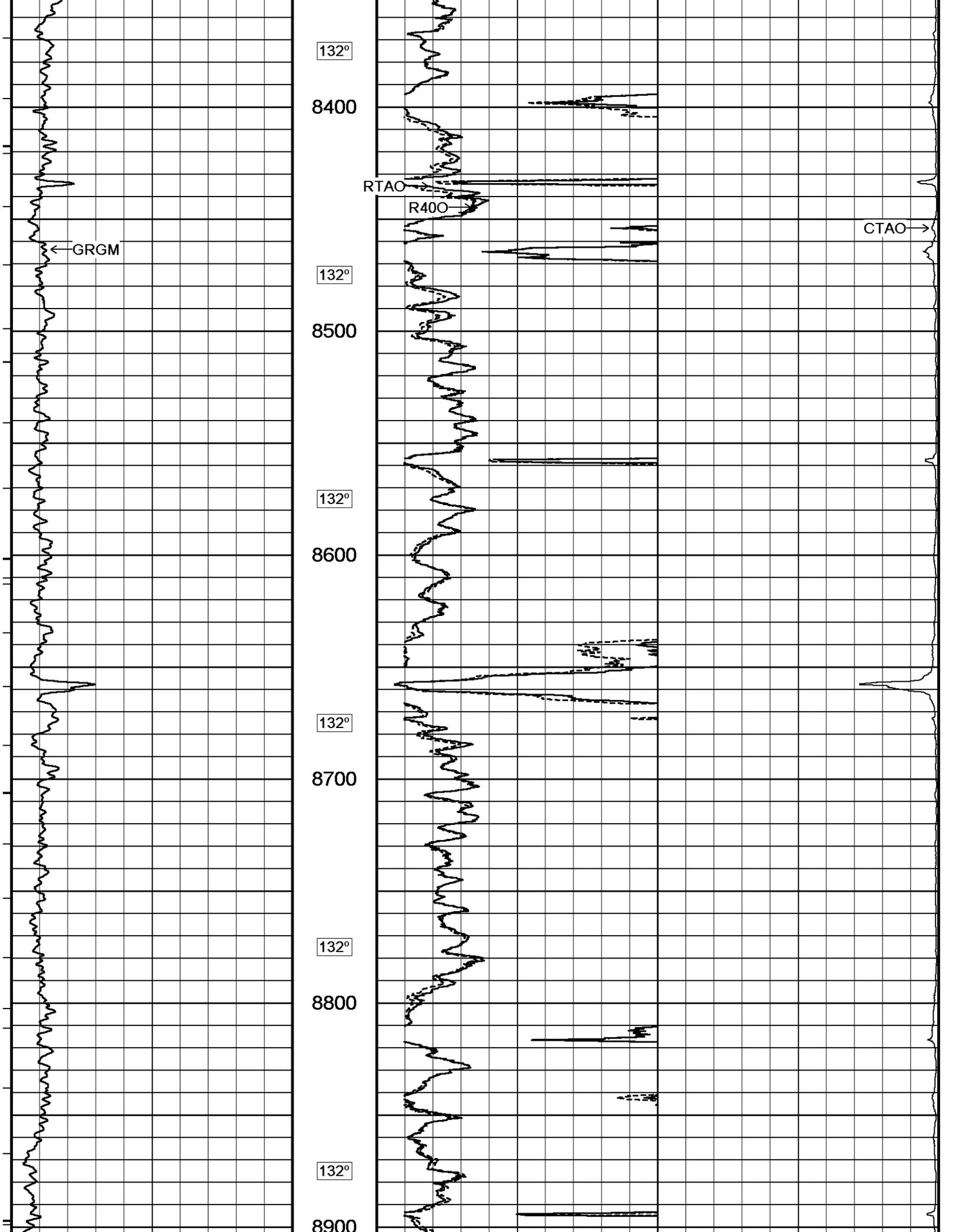


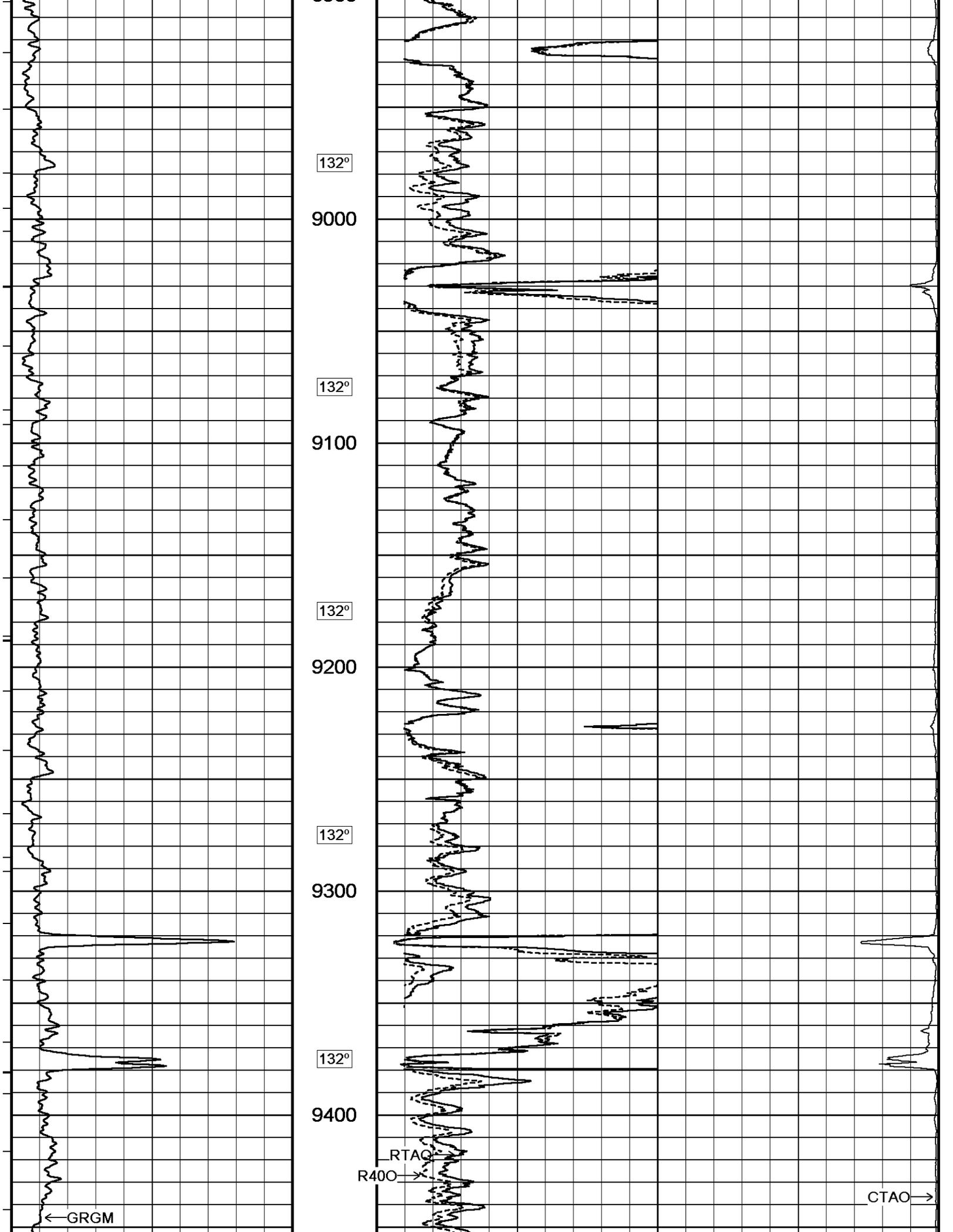


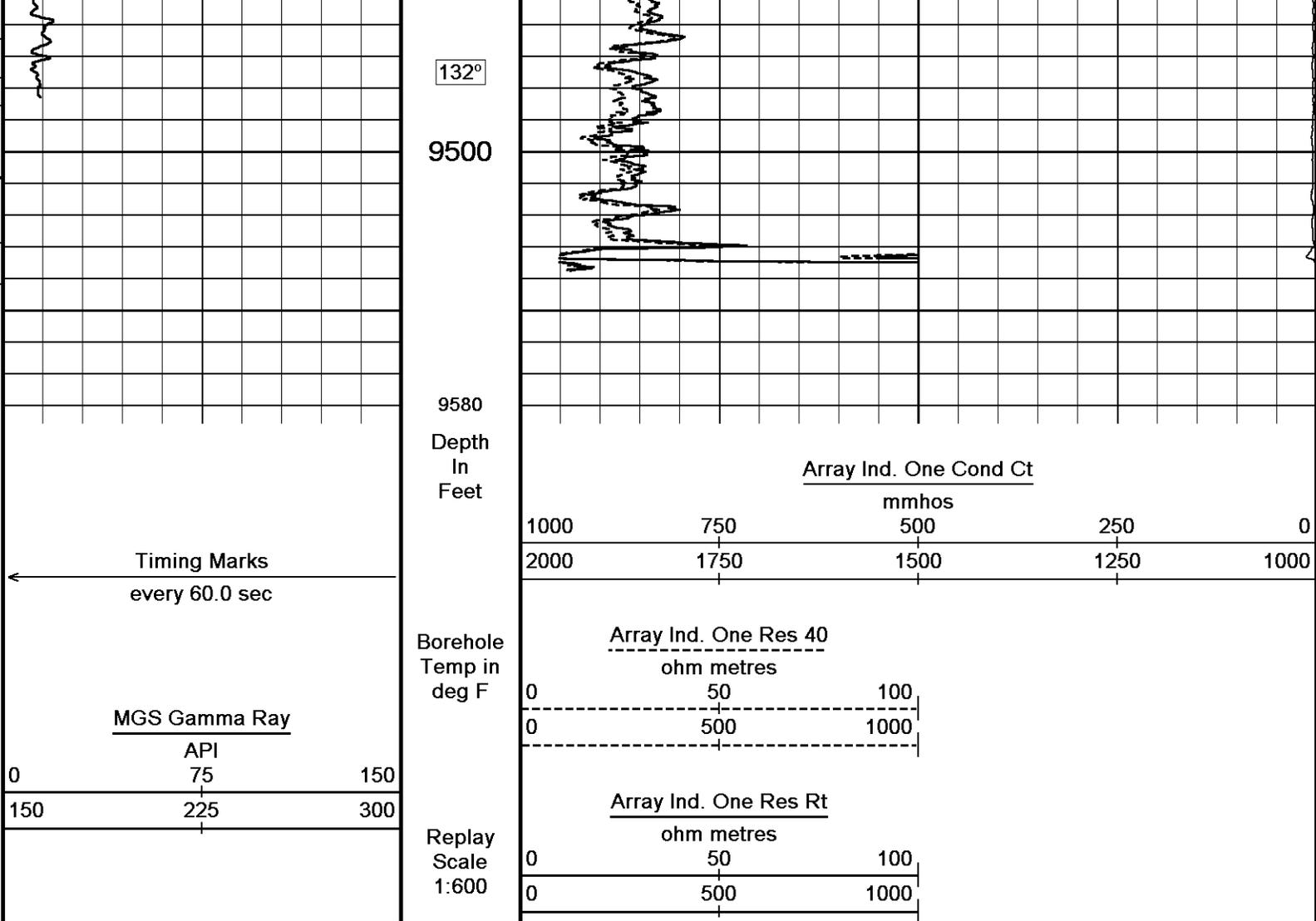


131°  
7900  
131°  
8000  
132°  
8100  
132°  
8200  
132°  
8300







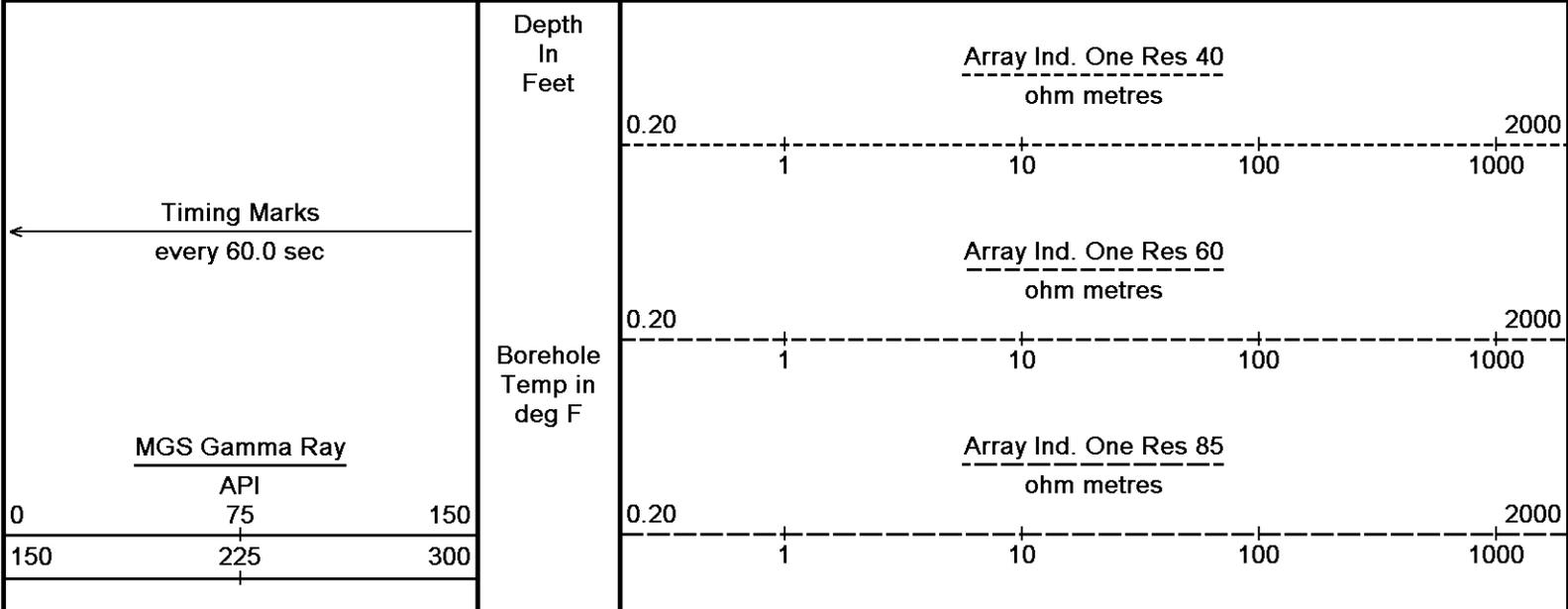


Depth Based Data - Maximum Sampling Increment 10.0cm Plotted on 16-NOV-2012 18:22  
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↑ 2 INCH MAIN LOG ↑

↓ 5 INCH MAIN LOG ↓

Depth Based Data - Maximum Sampling Increment 10.0cm Plotted on 16-NOV-2012 18:22  
 Filename: C:\Data\SANDRIDGE FOLDER\SANDRIDGE ANITA 3420 1-12H\33021RTAP.dta Recorded on 16-NOV-2012 12:12  
 System Versions: Processed with 13.03.7779 Plotted with 13.03.7779



Array Ind. One Res Rt

ohm metres

Replay  
Scale  
1:240

0.20

2000

1

10

100

1000

5418

Casing  
Shoo  
5450

124°

5500

125°

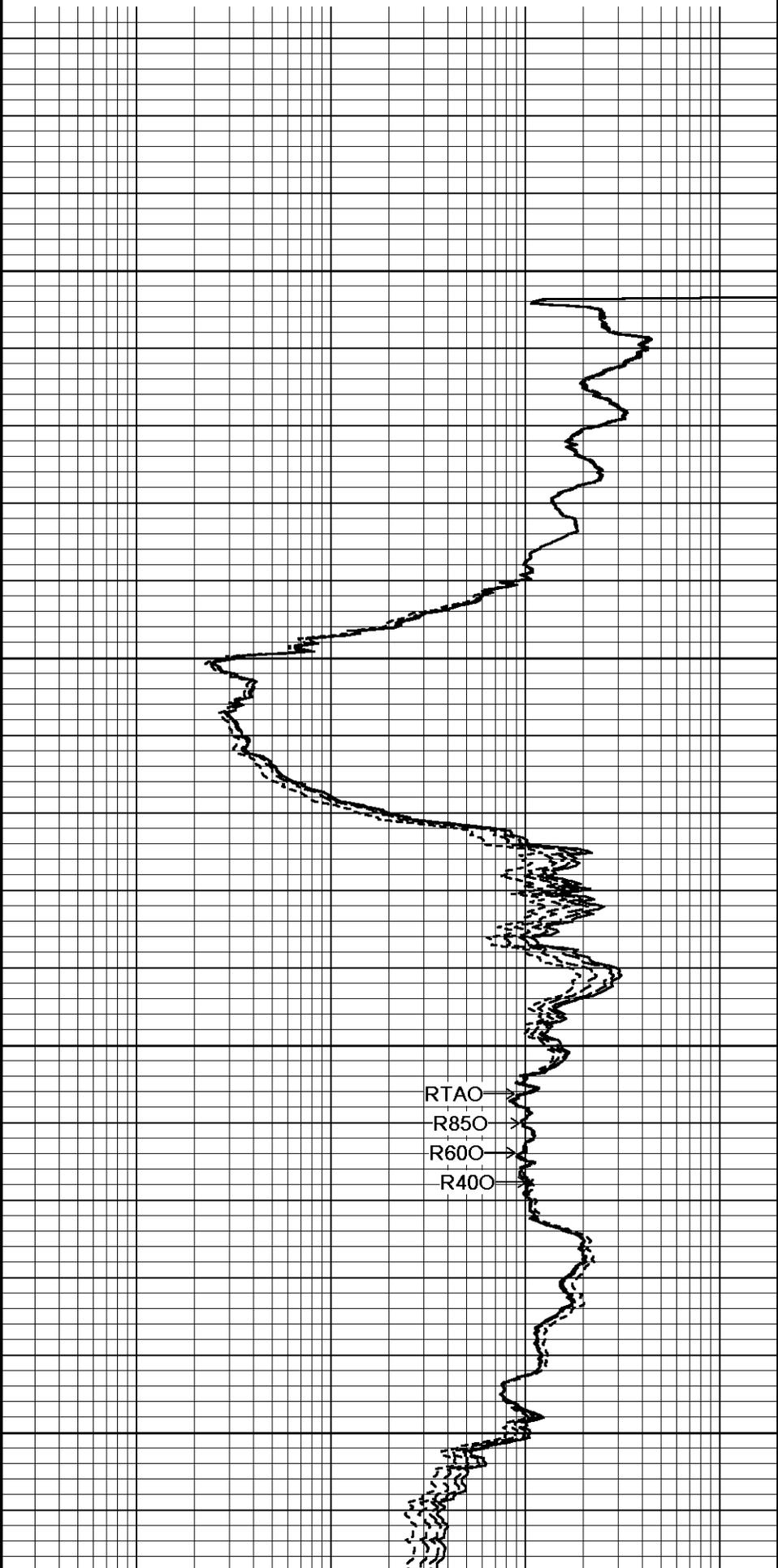
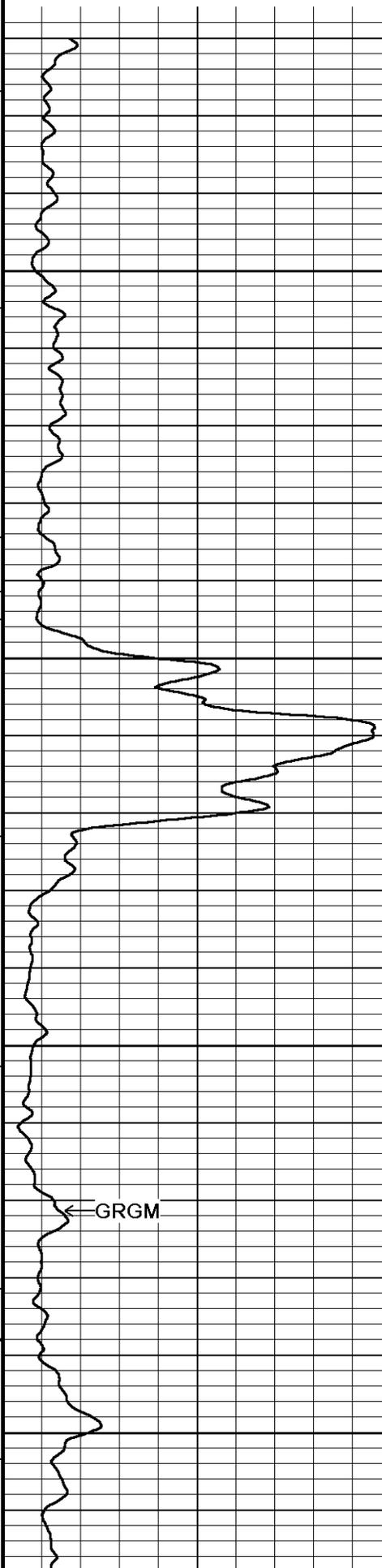
5550

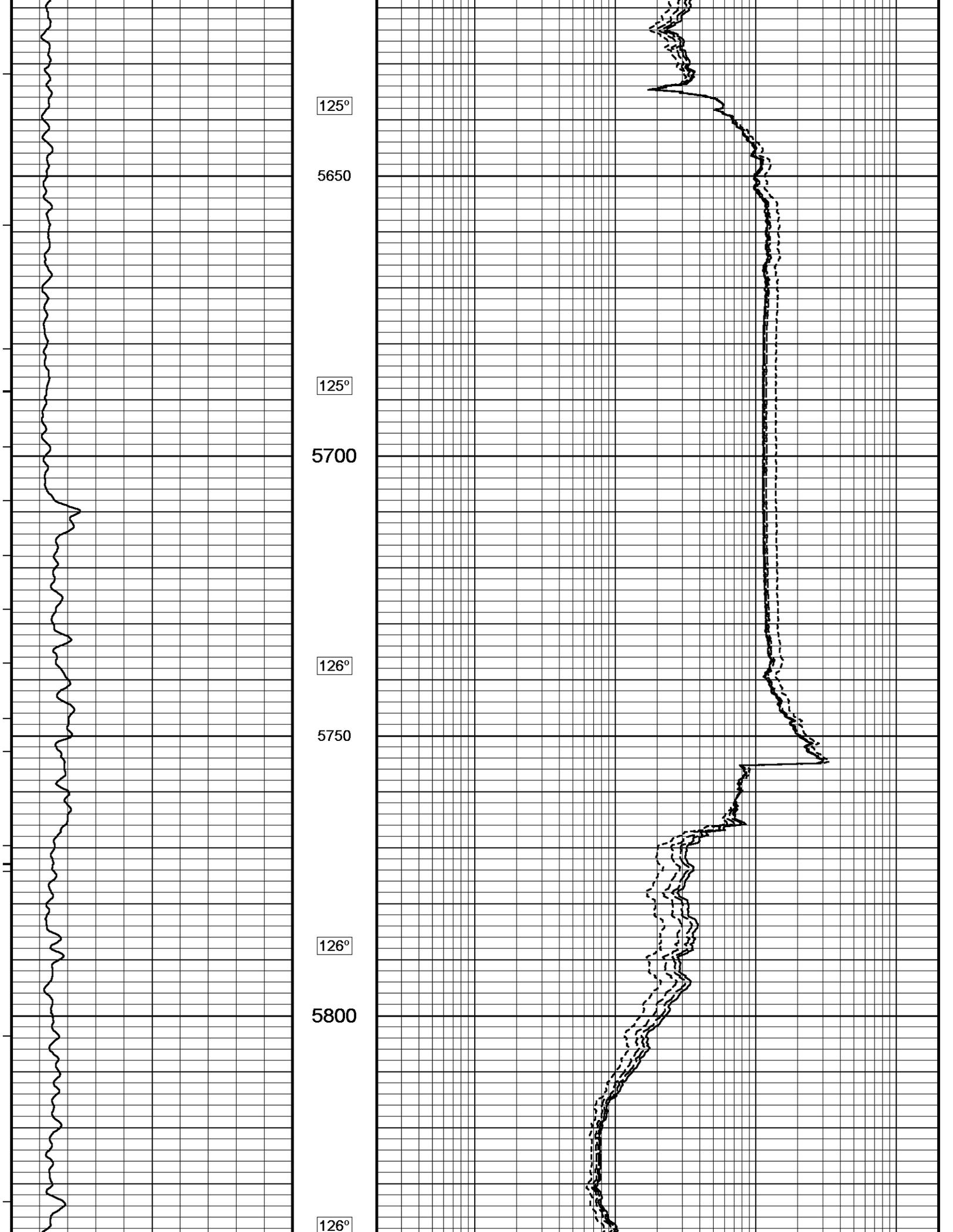
RTAO →  
R850 →  
R600 →  
R400 →

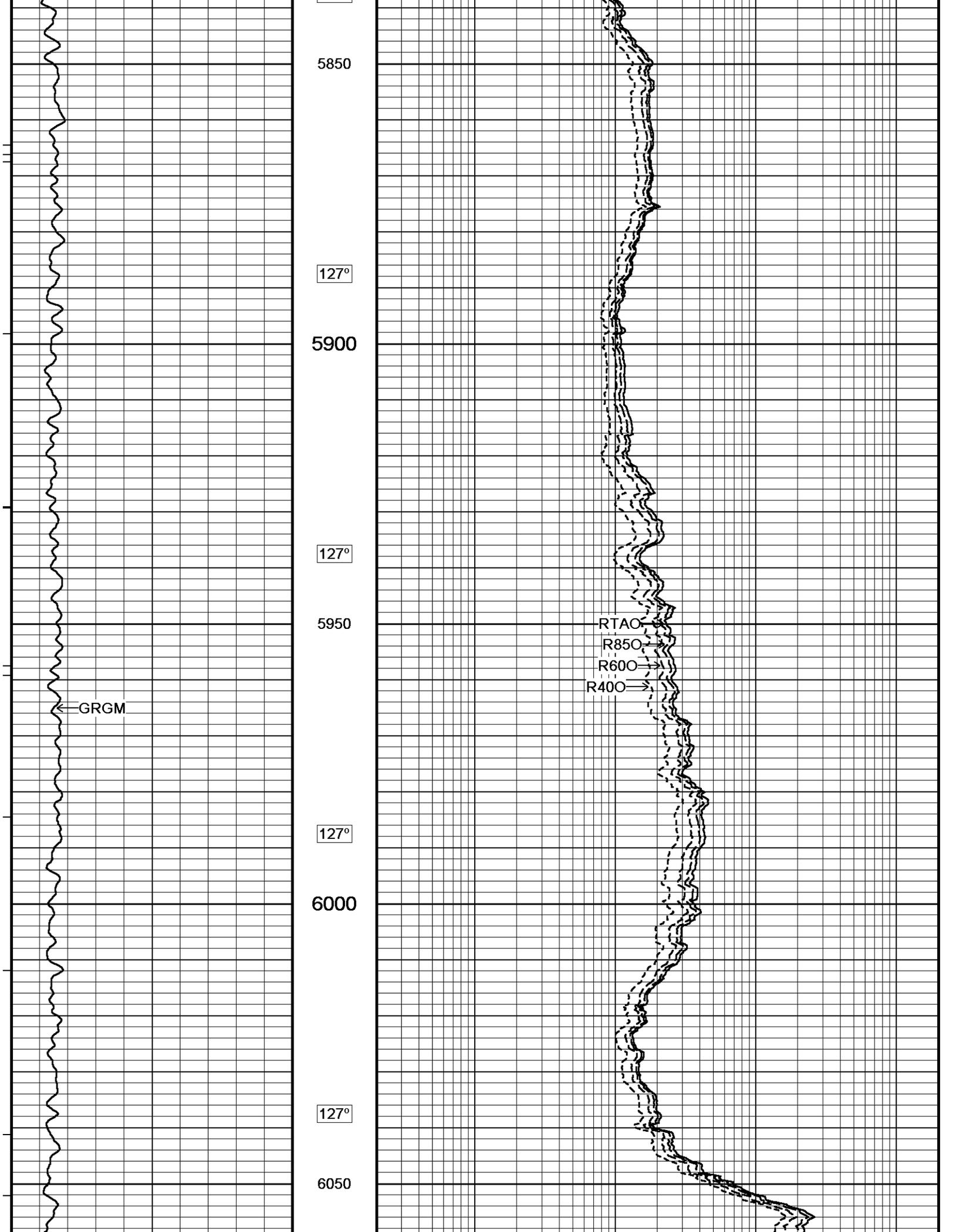
← GRGM

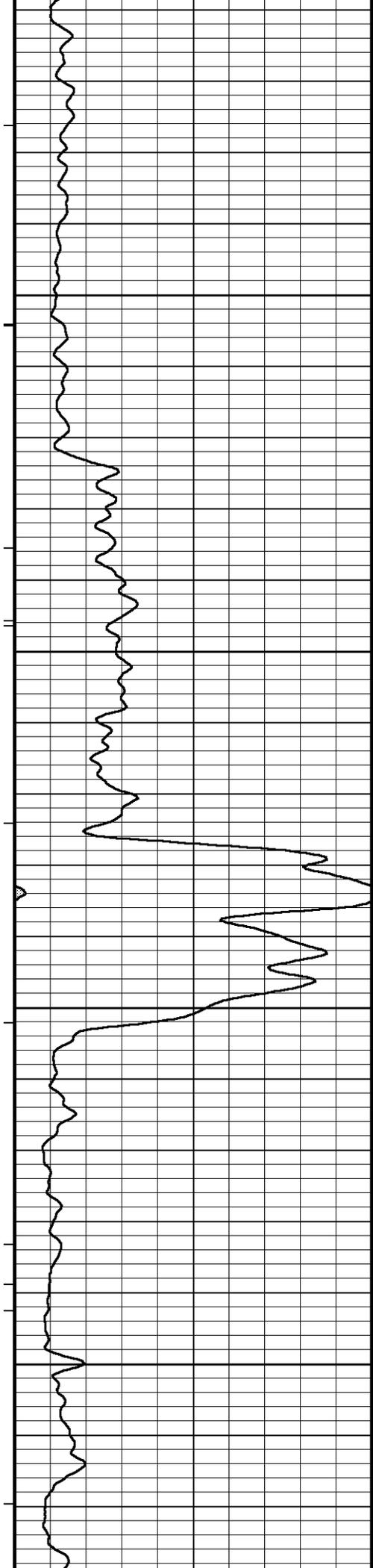
125°

5600









127°

6100

128°

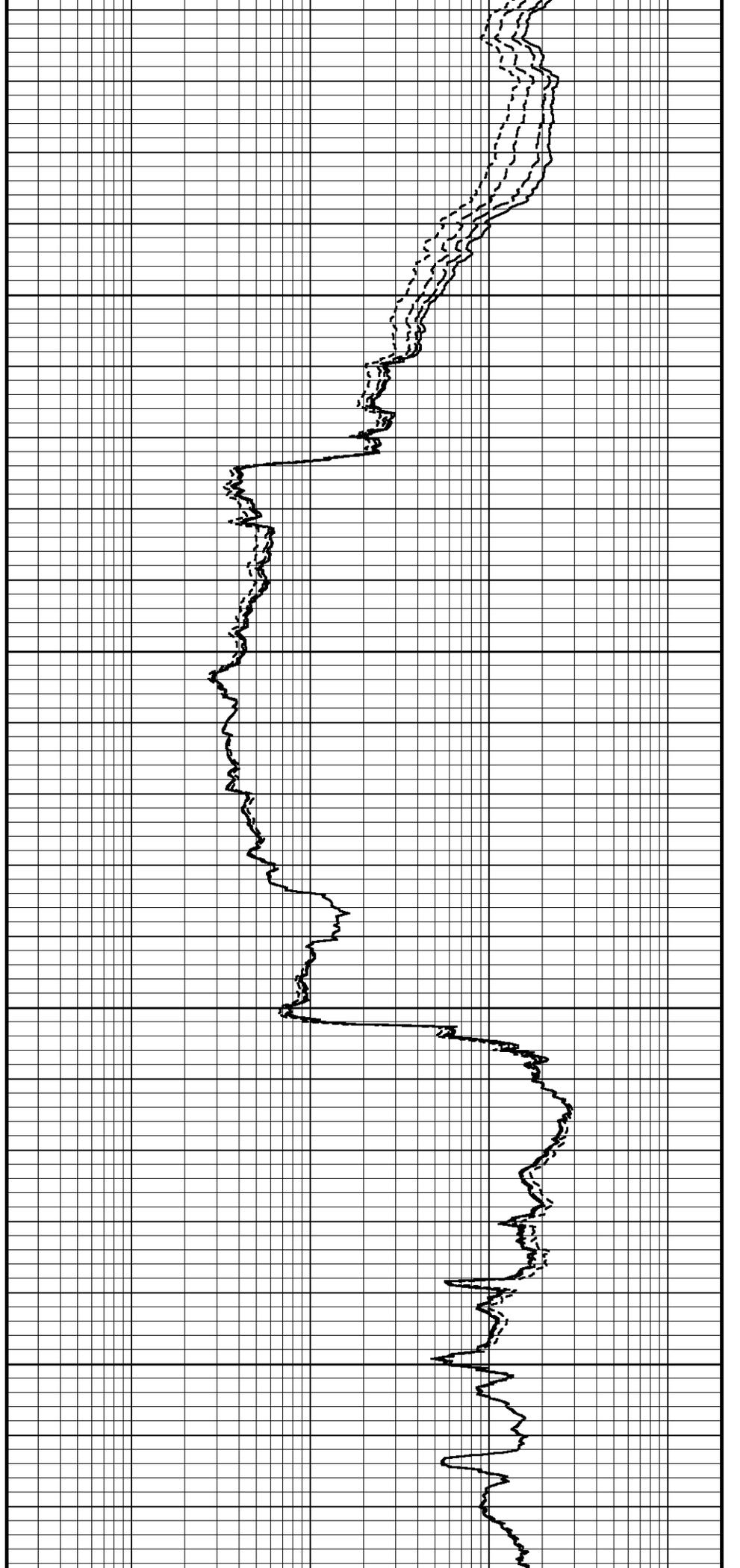
6150

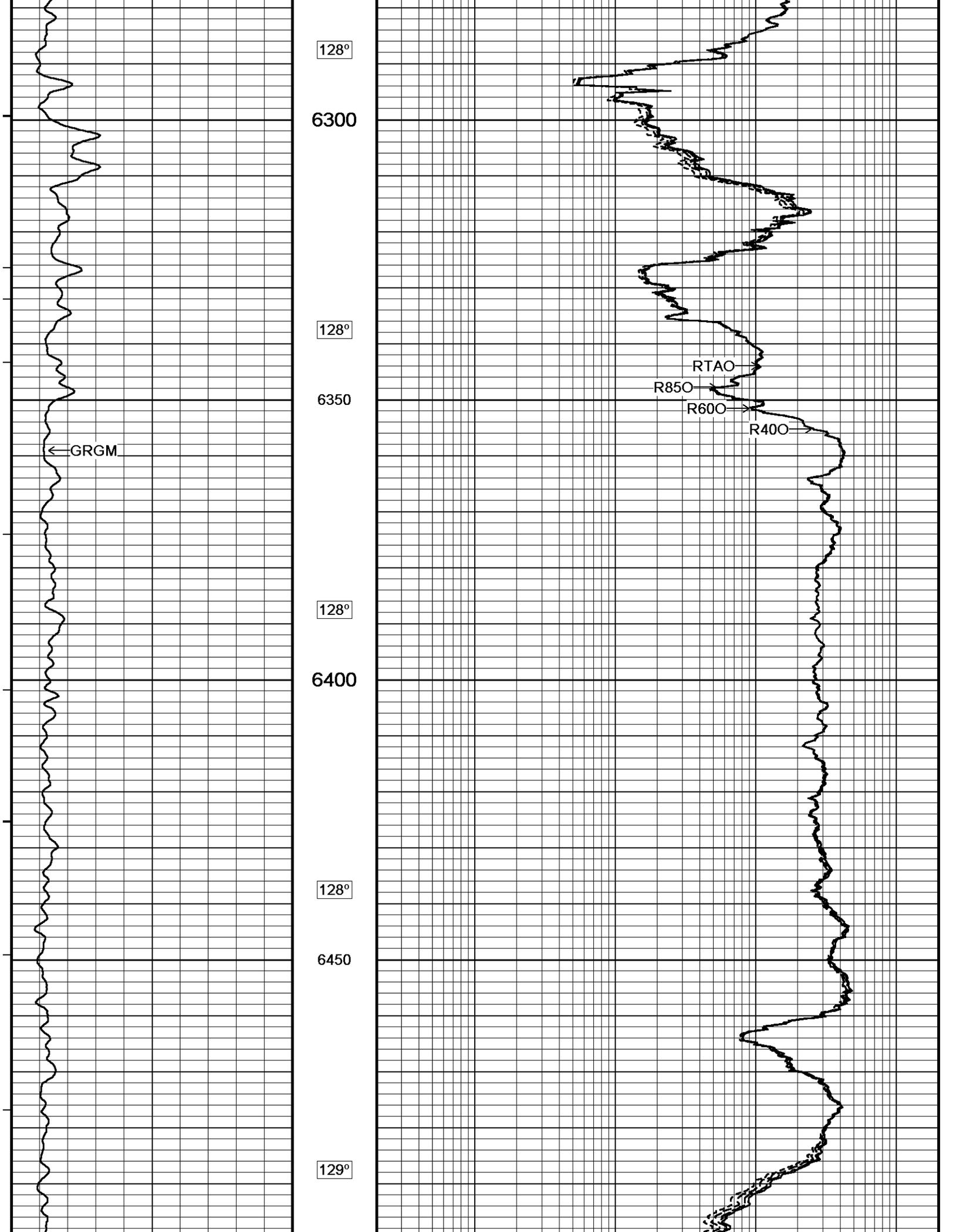
128°

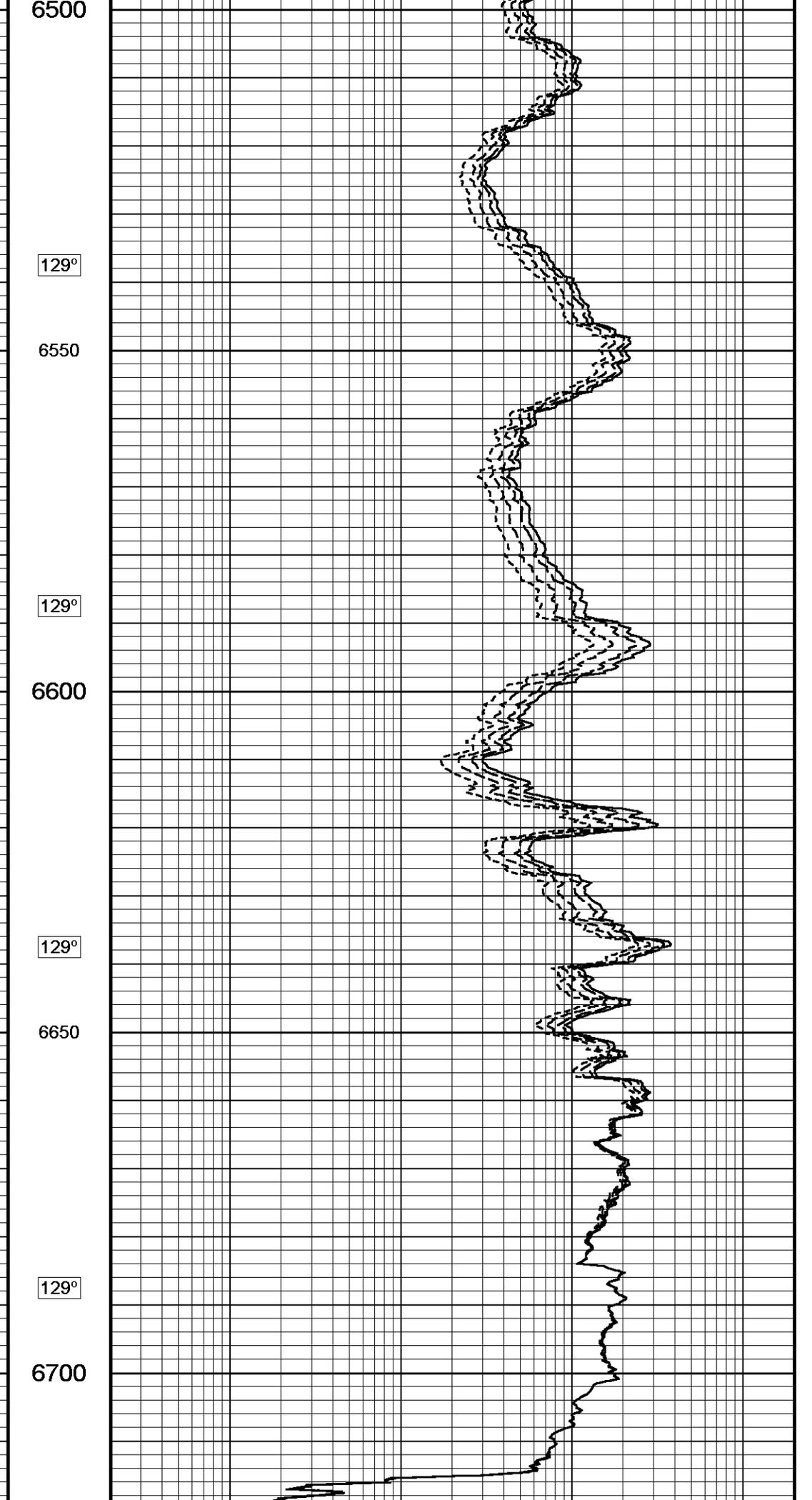
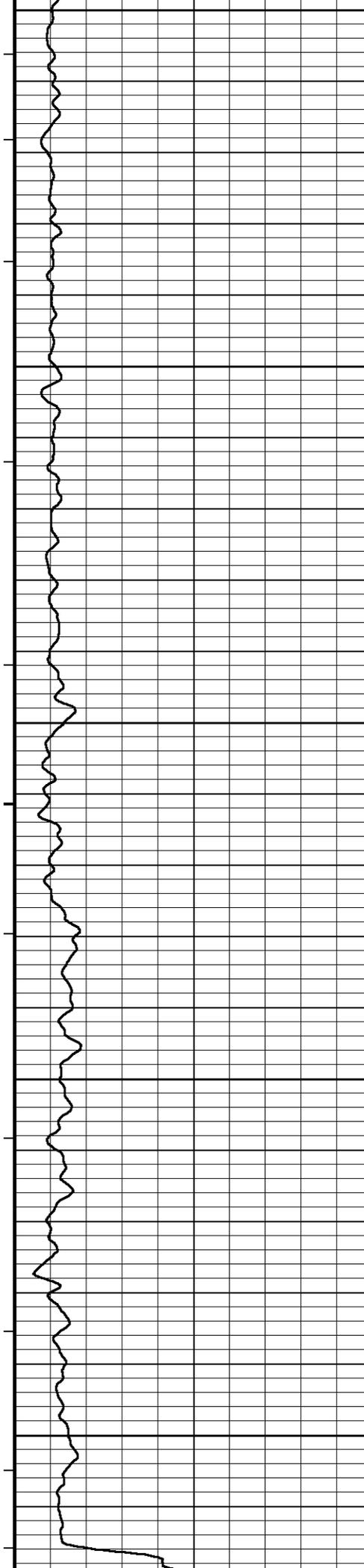
6200

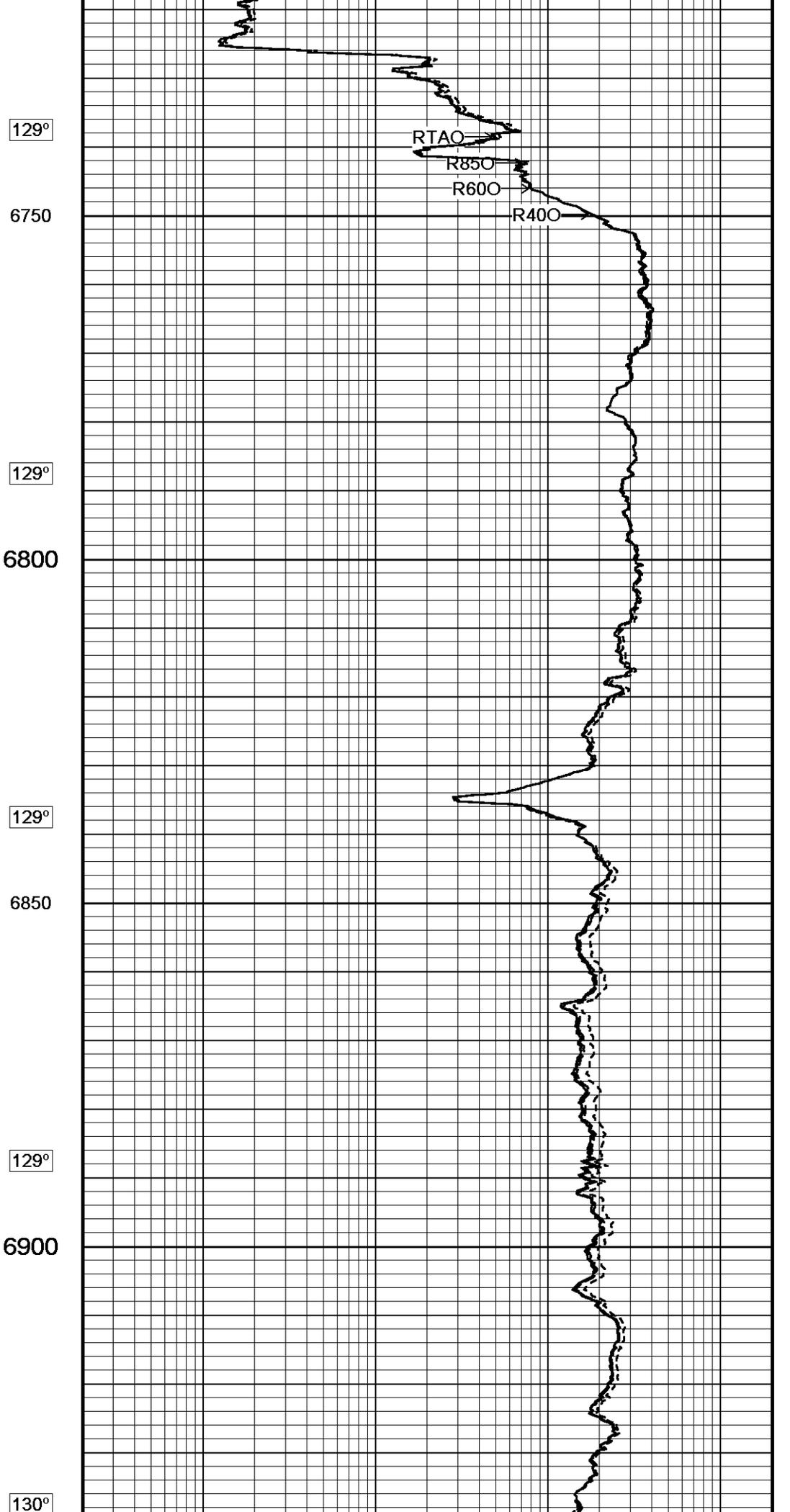
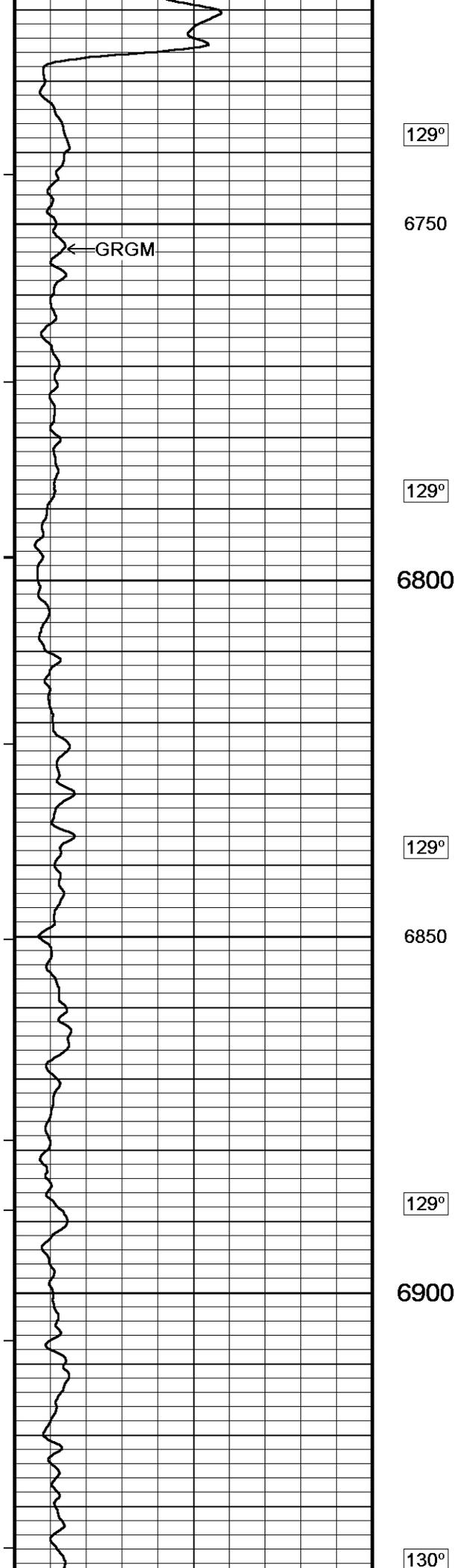
128°

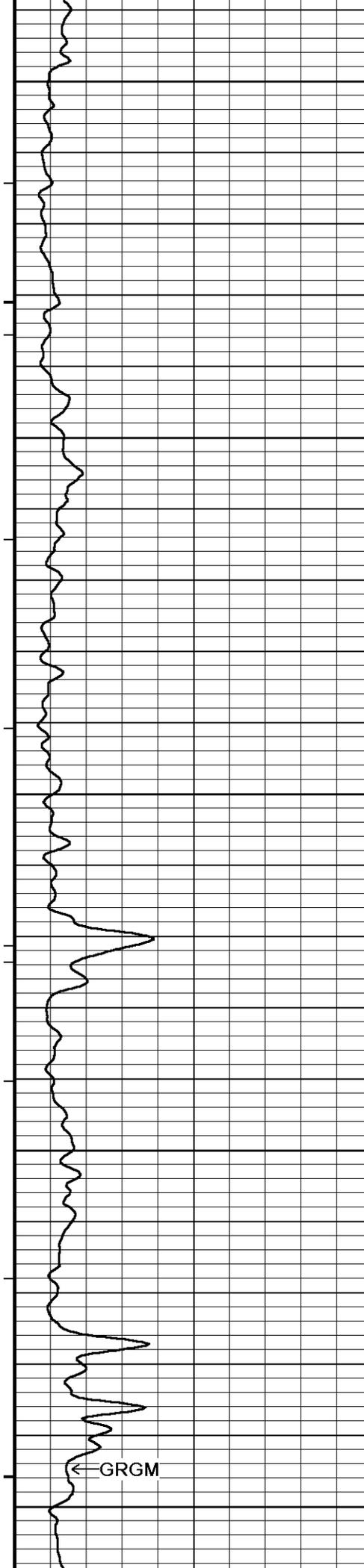
6250











6950

130°

7000

130°

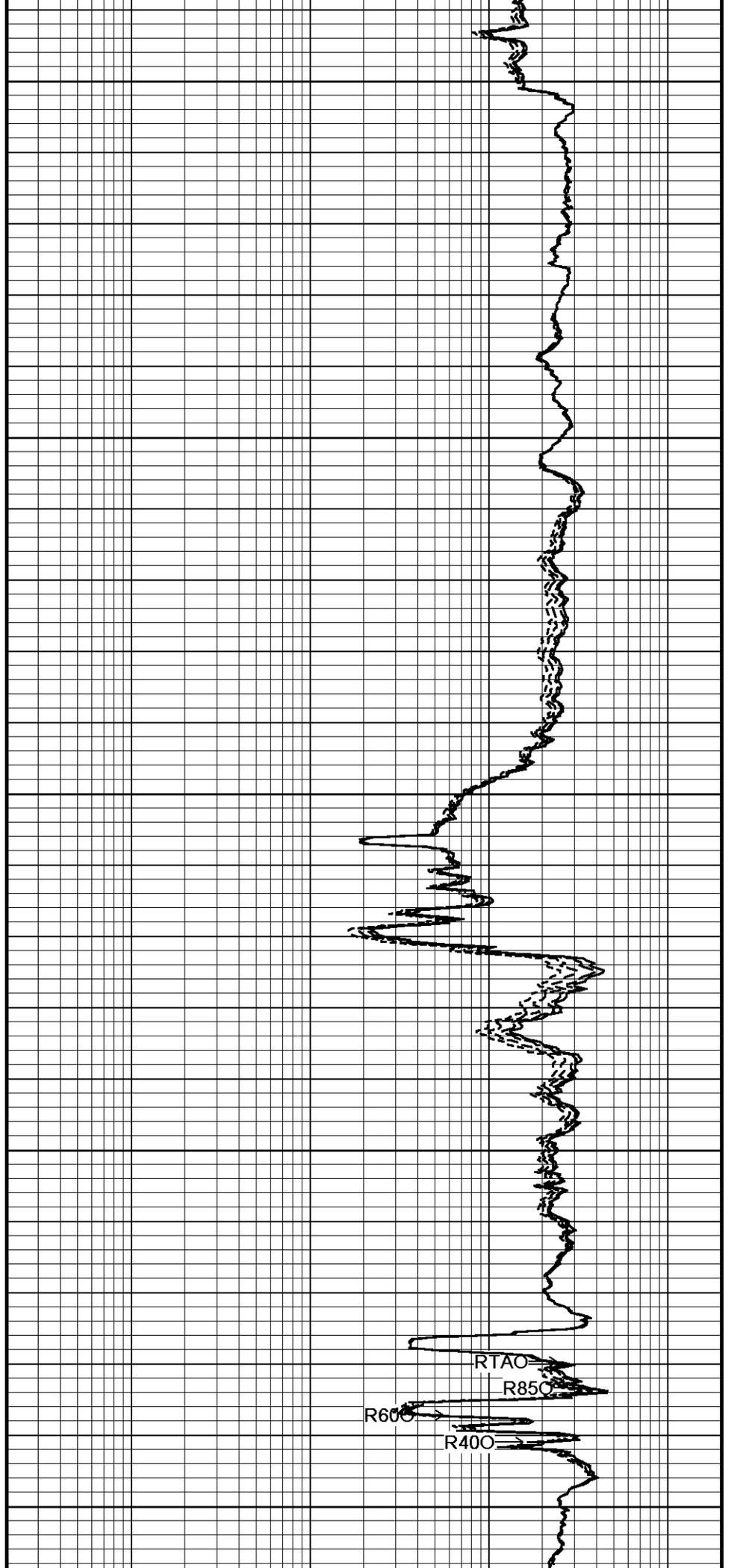
7050

130°

7100

130°

7150

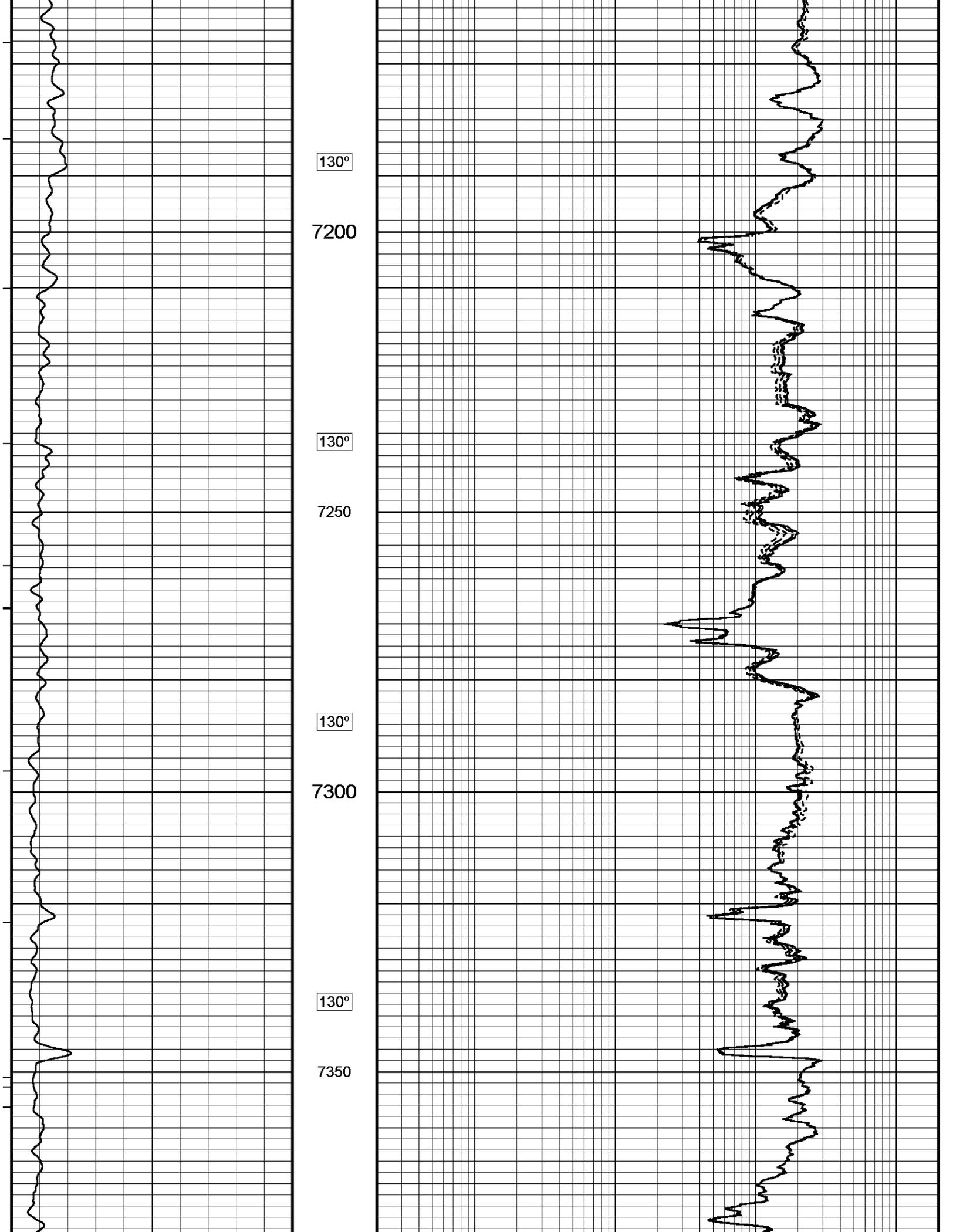


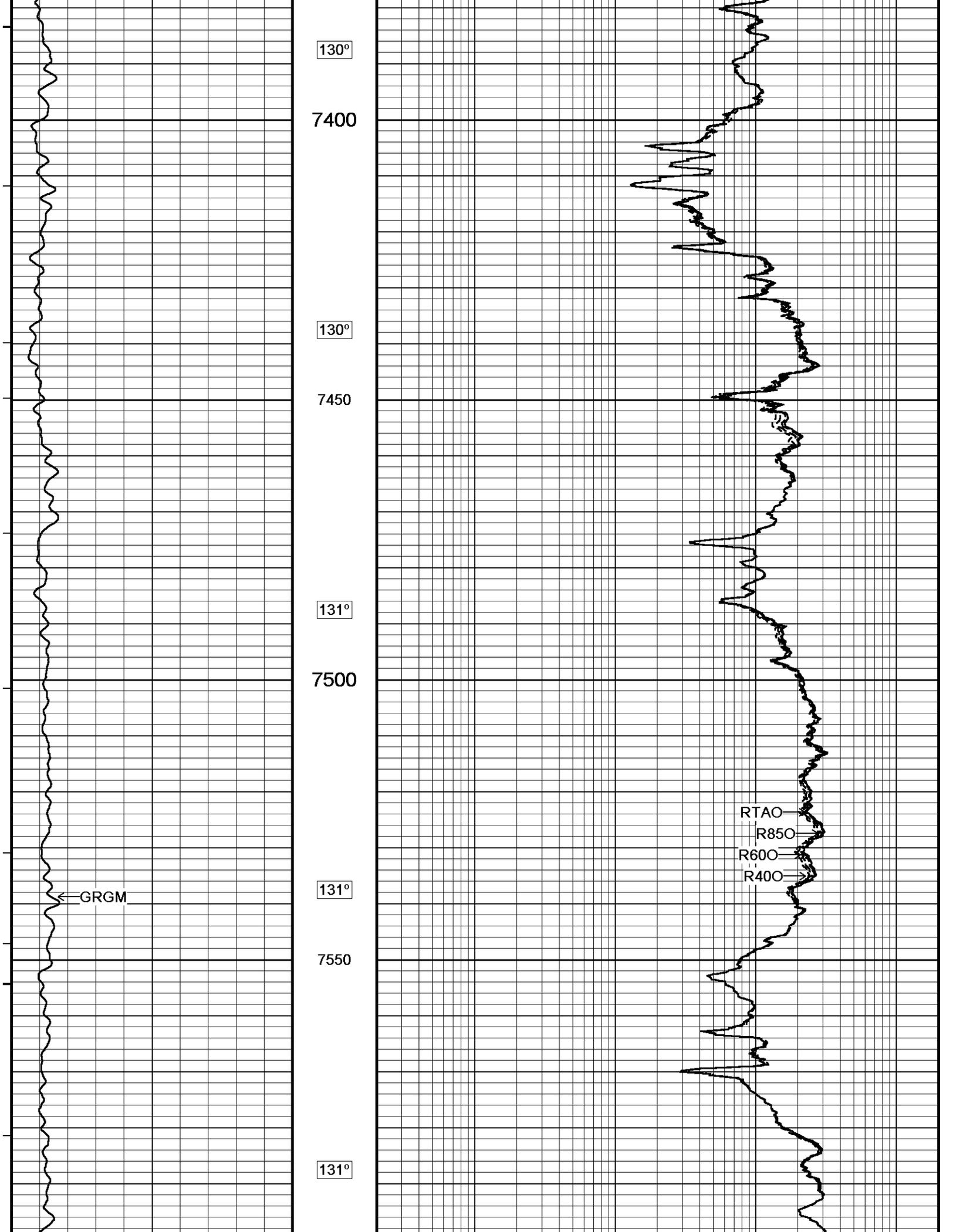
RTAO

R850

R600

R400





130°

7400

130°

7450

131°

7500

131°

7550

131°

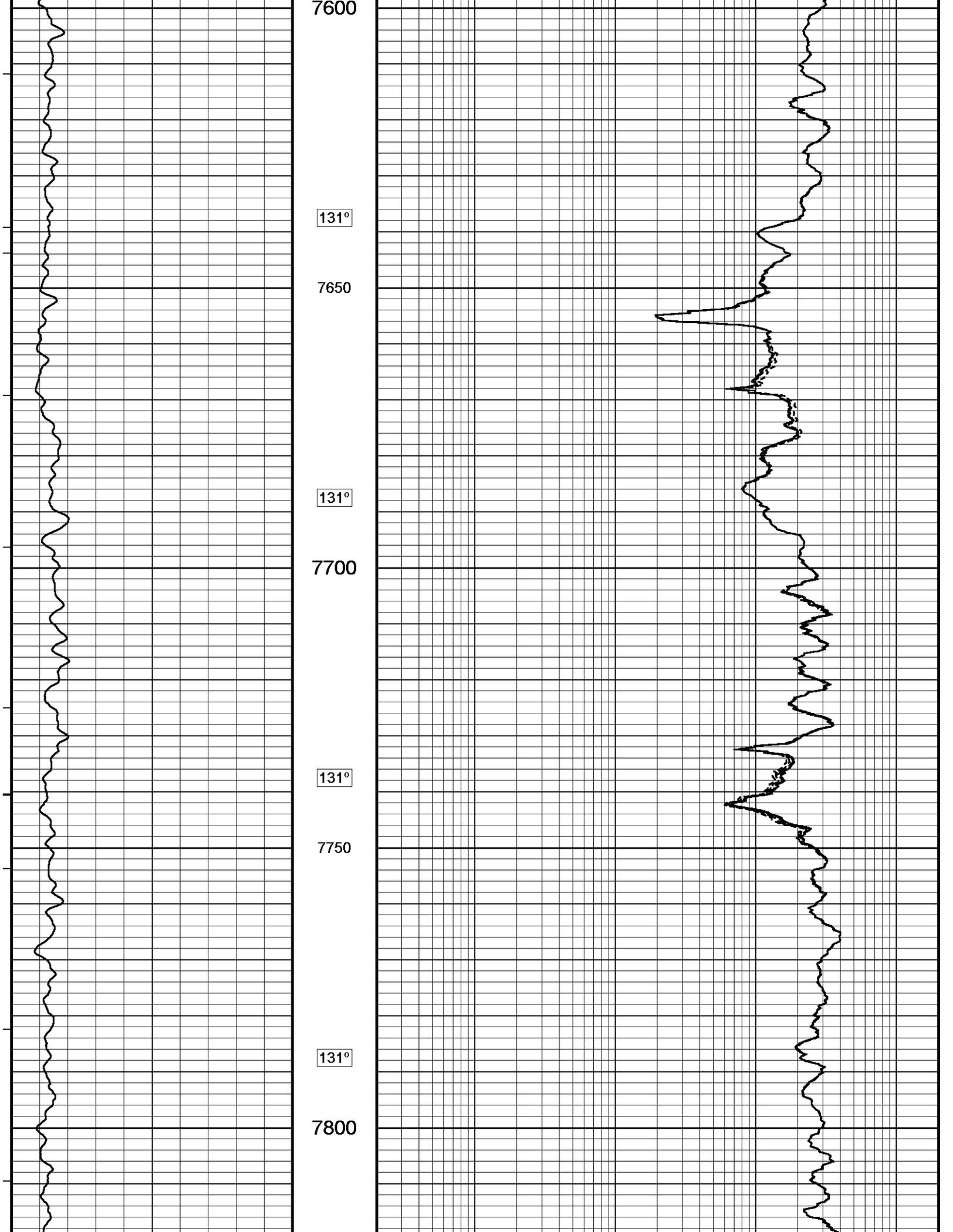
RTAO

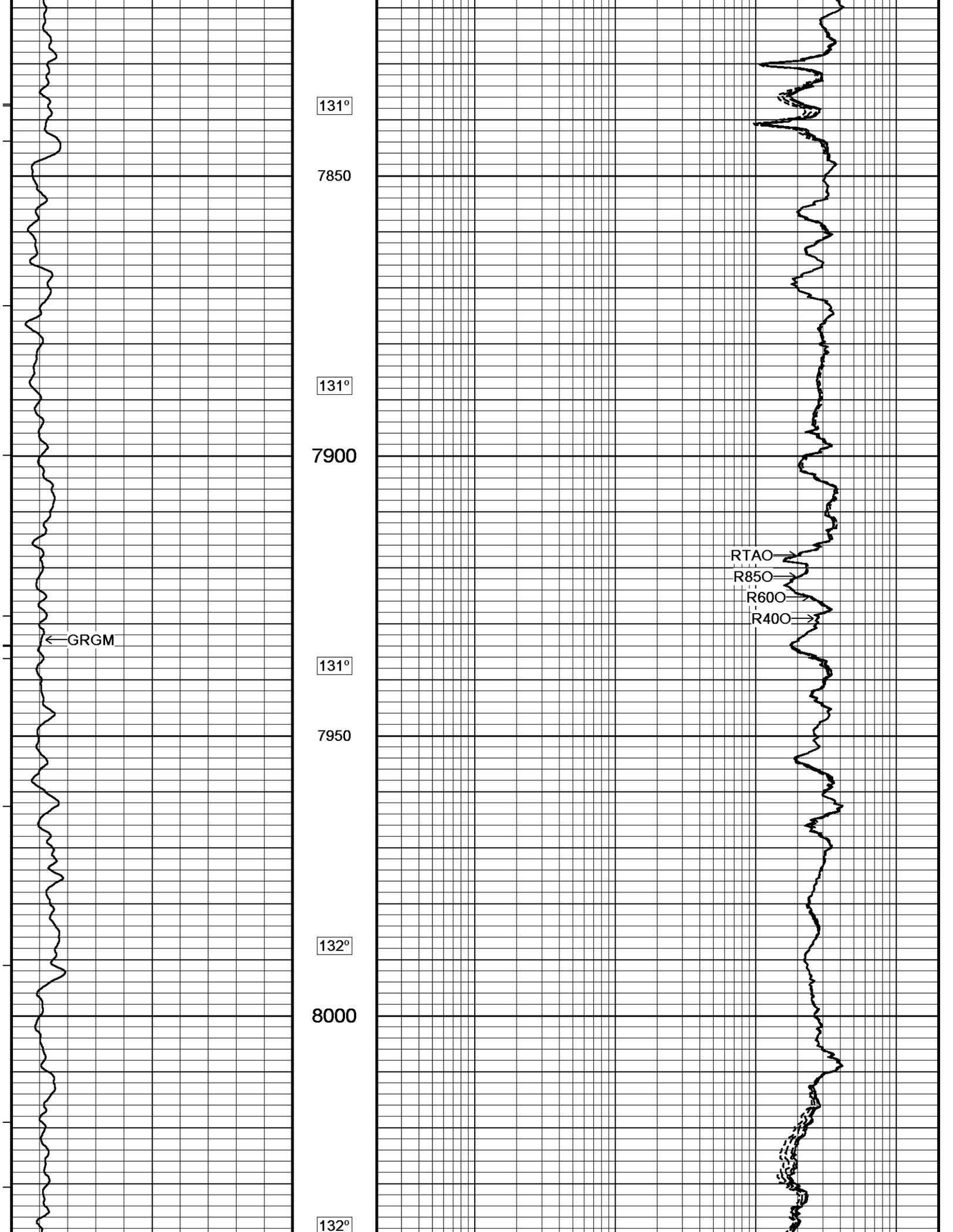
R850

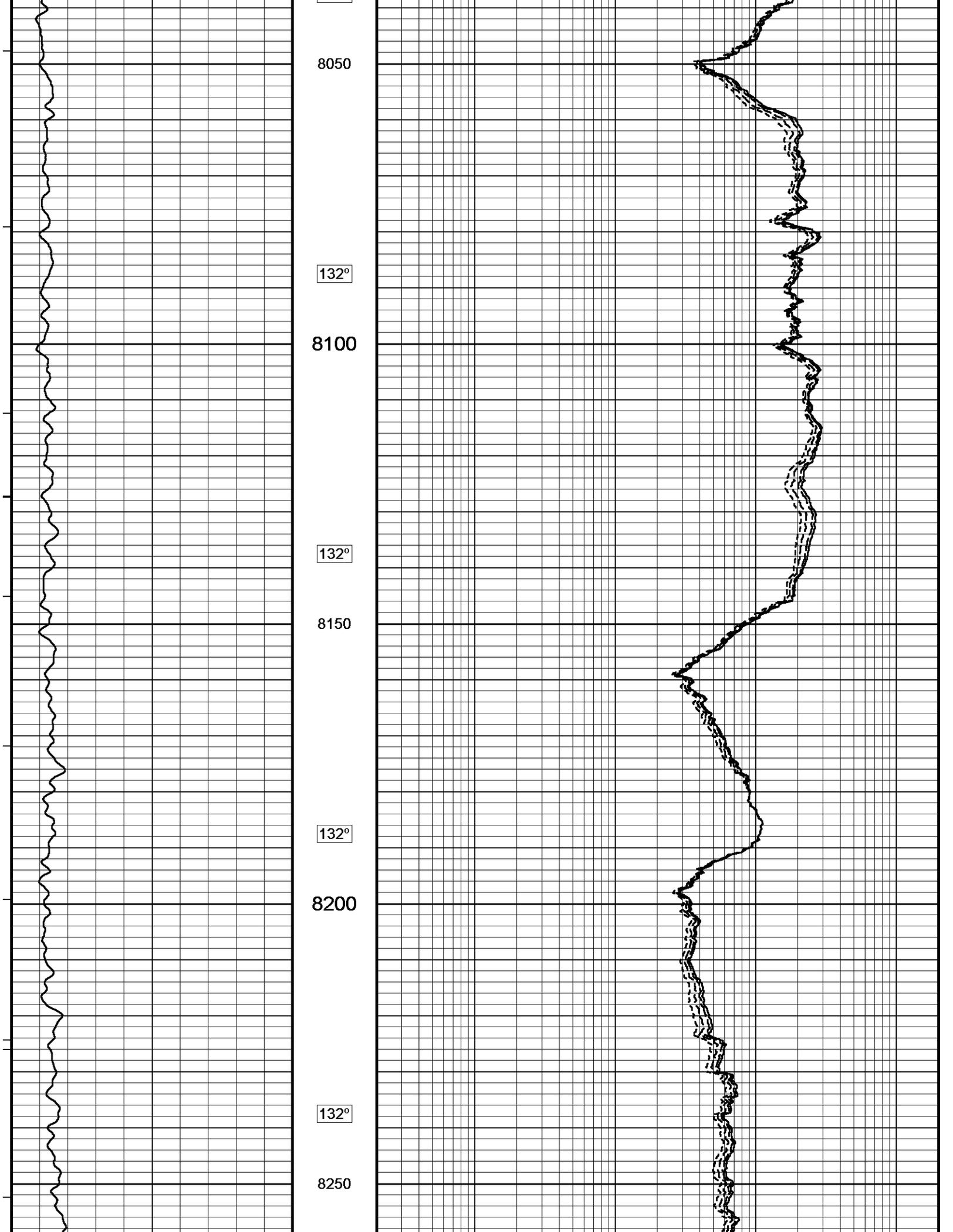
R600

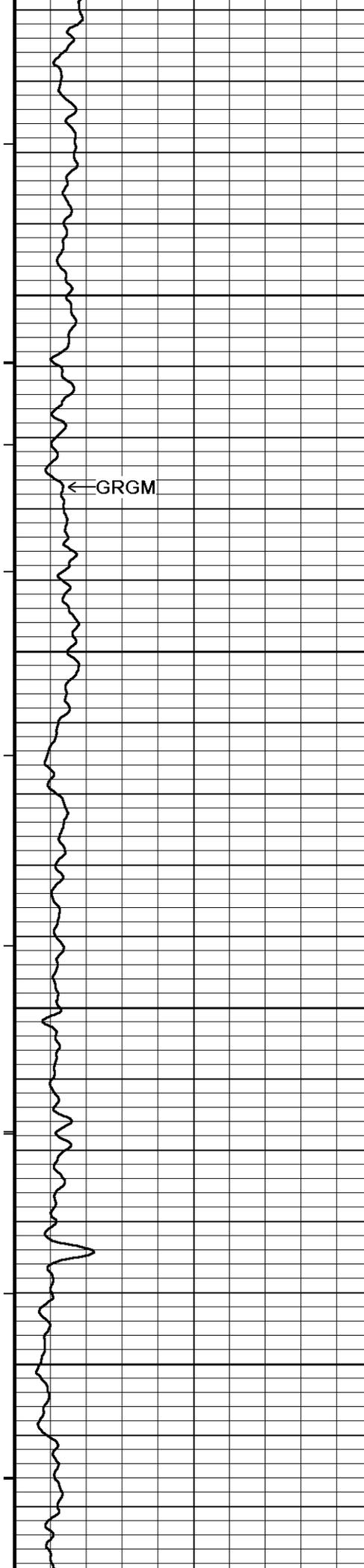
R400

GRGM









132°

8300

132°

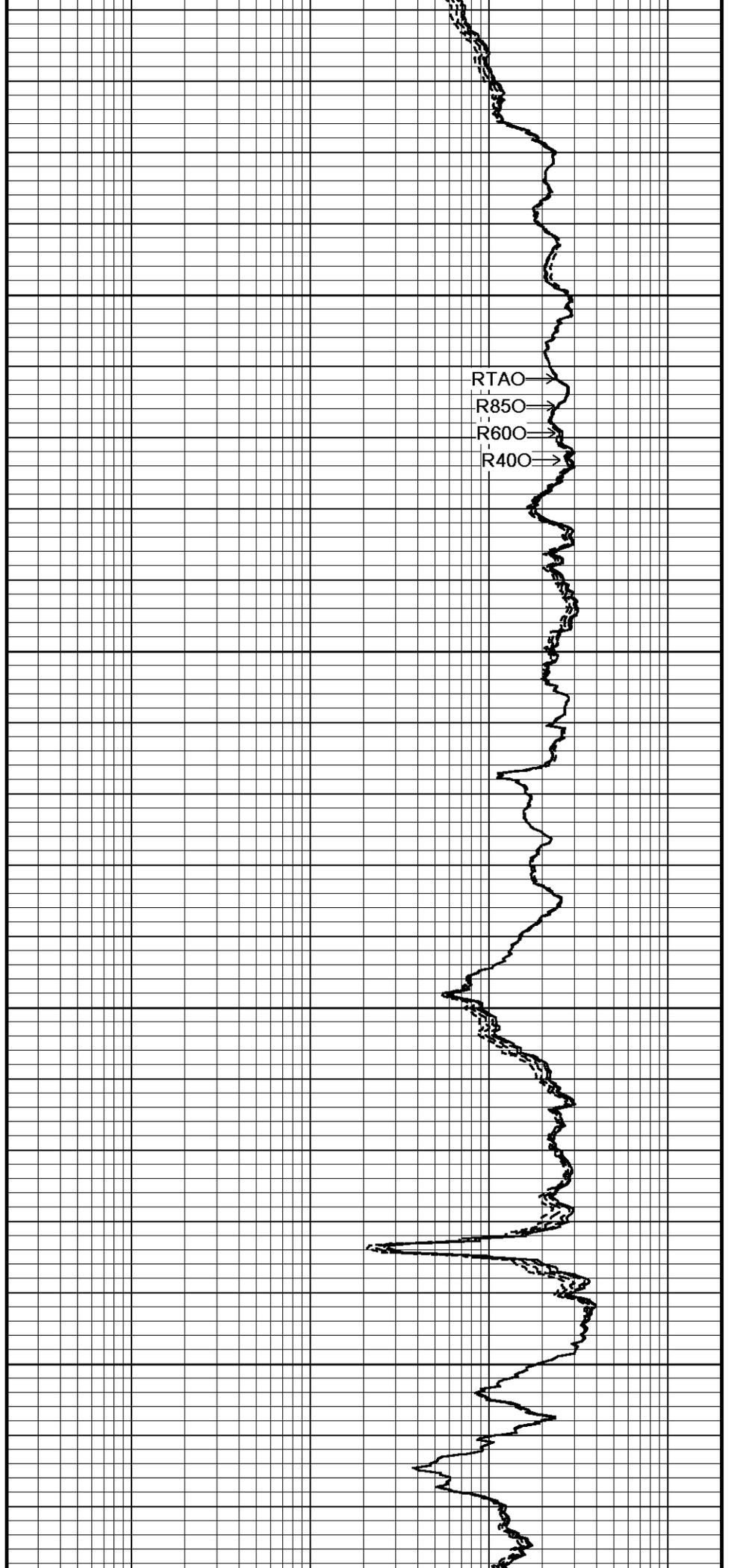
8350

132°

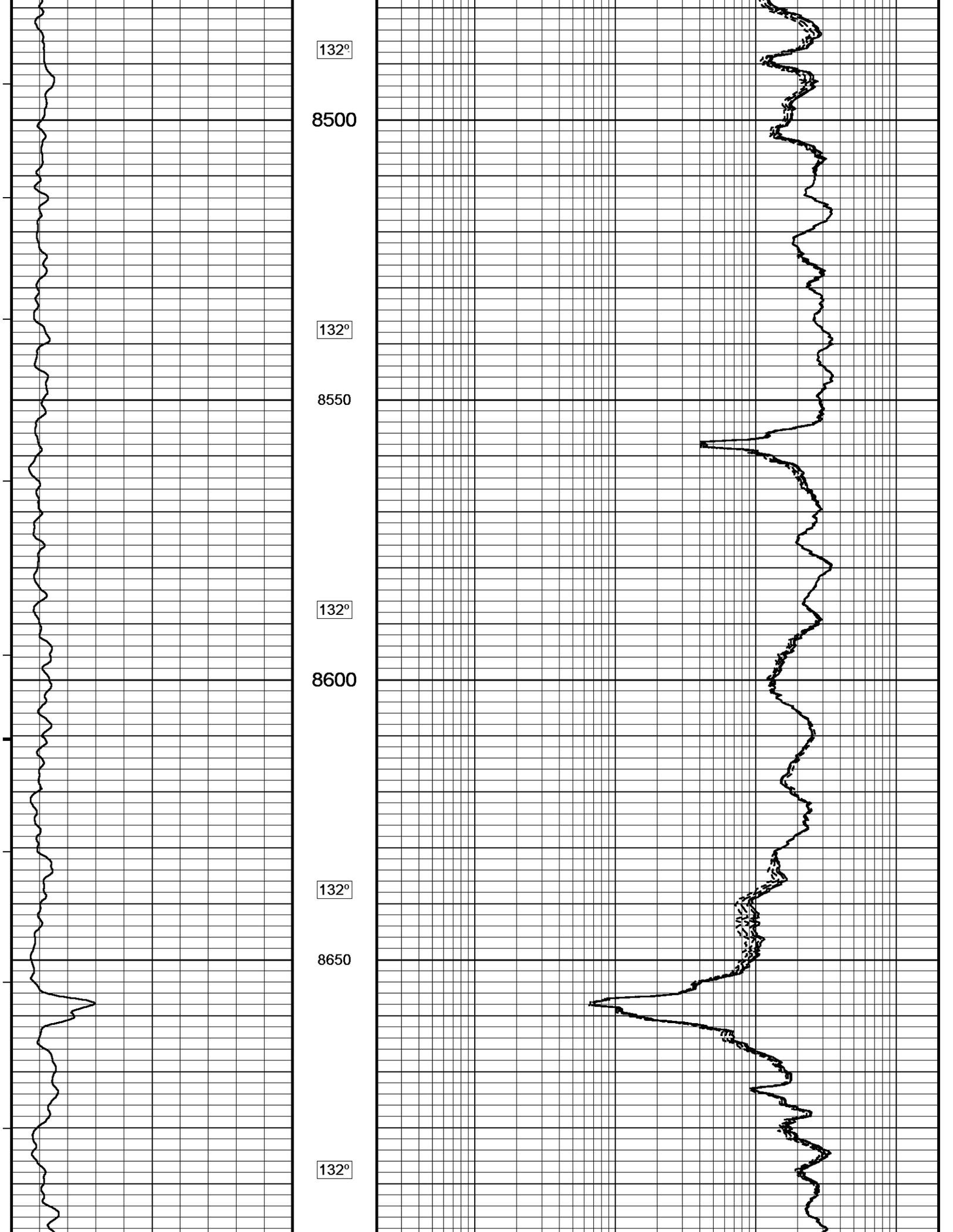
8400

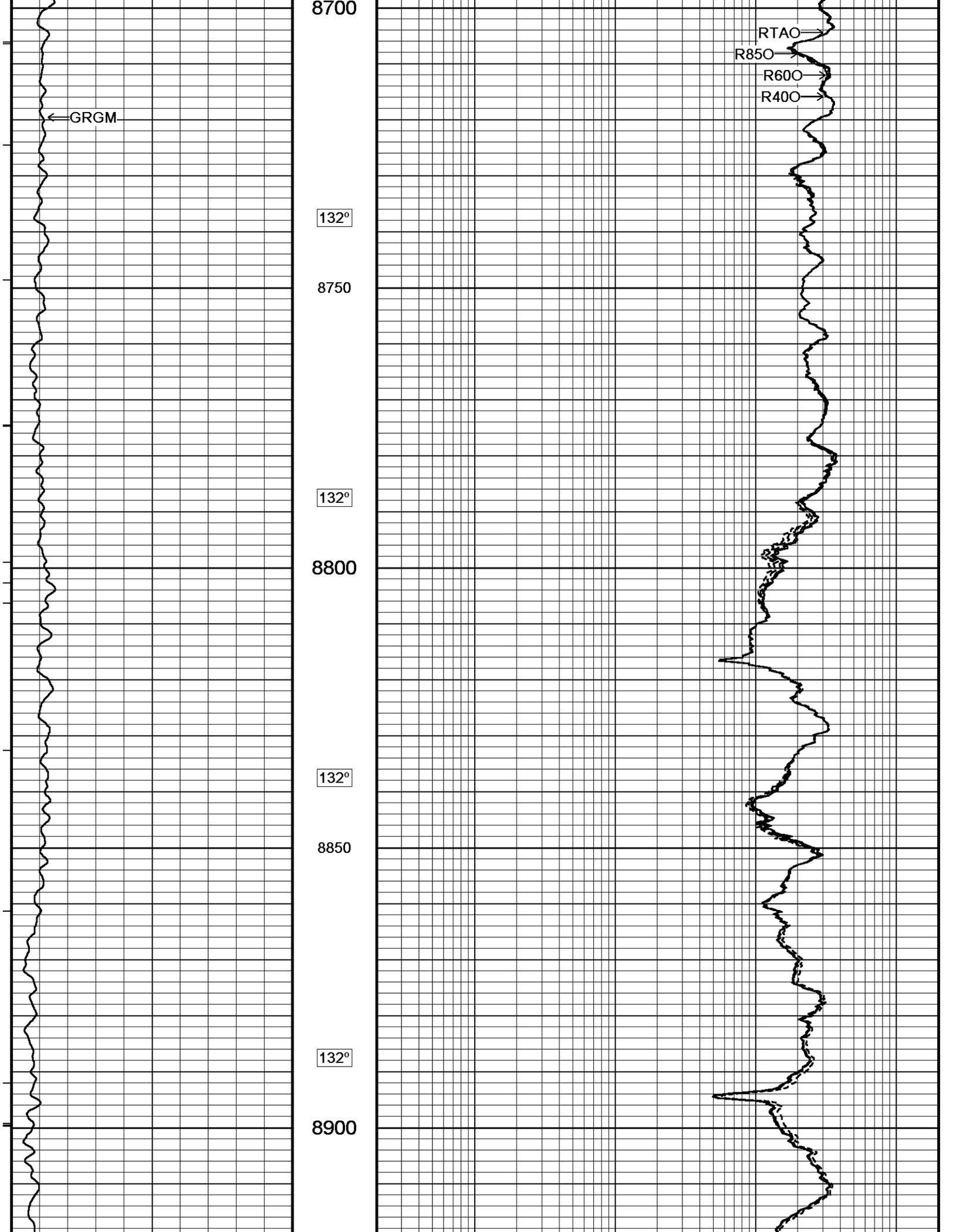
132°

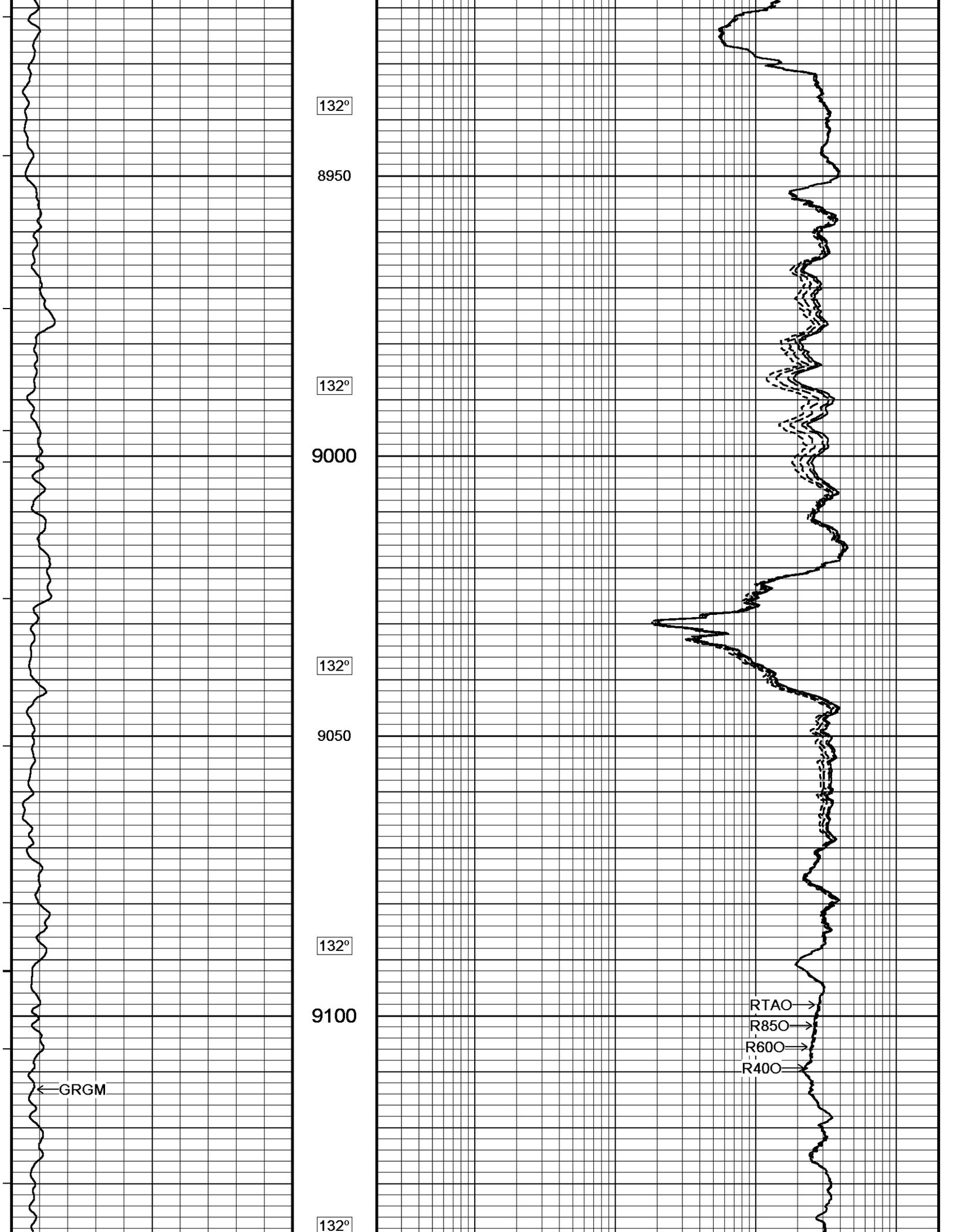
8450



RTAO →  
R850 →  
R600 →  
R400 →







132°

8950

132°

9000

132°

9050

132°

9100

132°

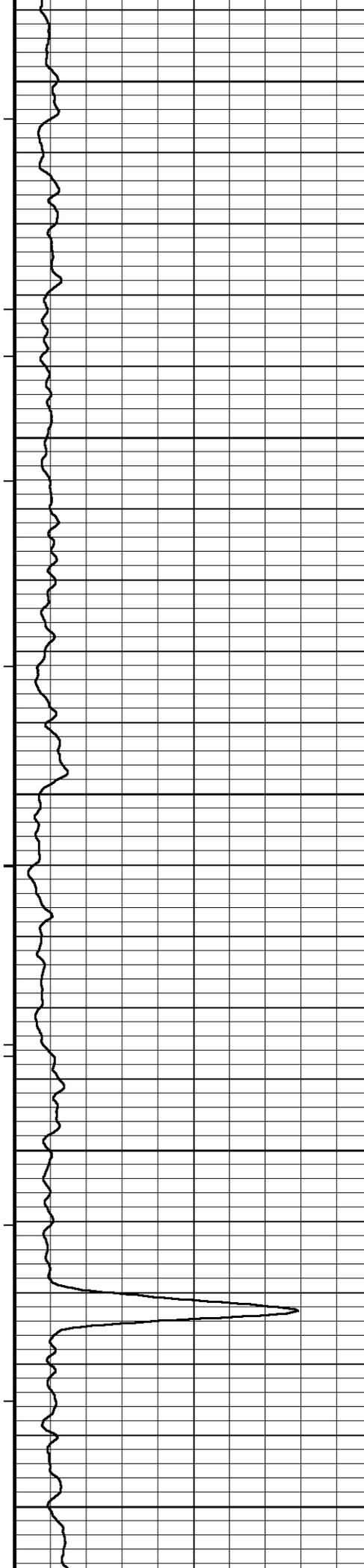
← GRGM

RTAO →

R850 →

R600 →

R400 →



9150

132°

9200

132°

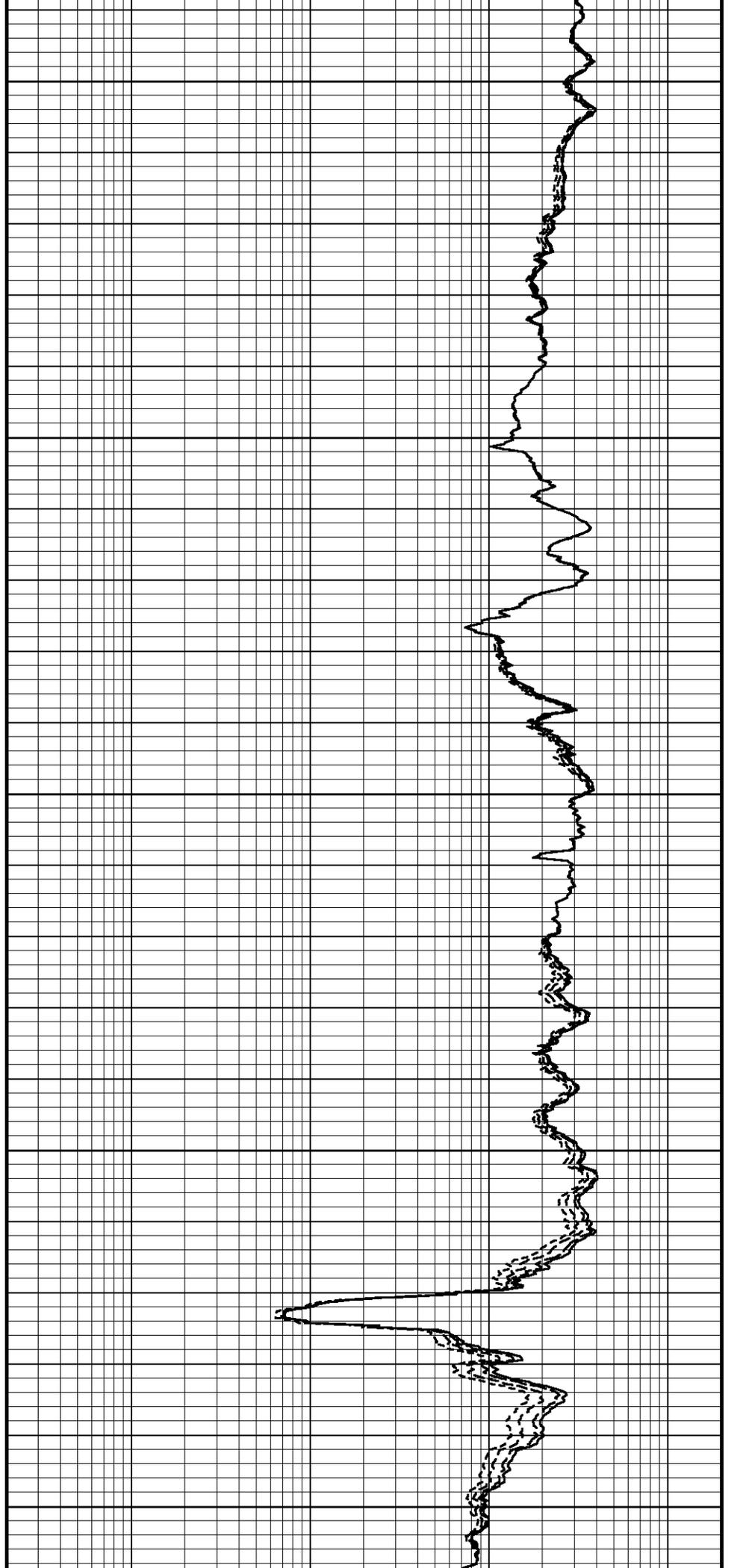
9250

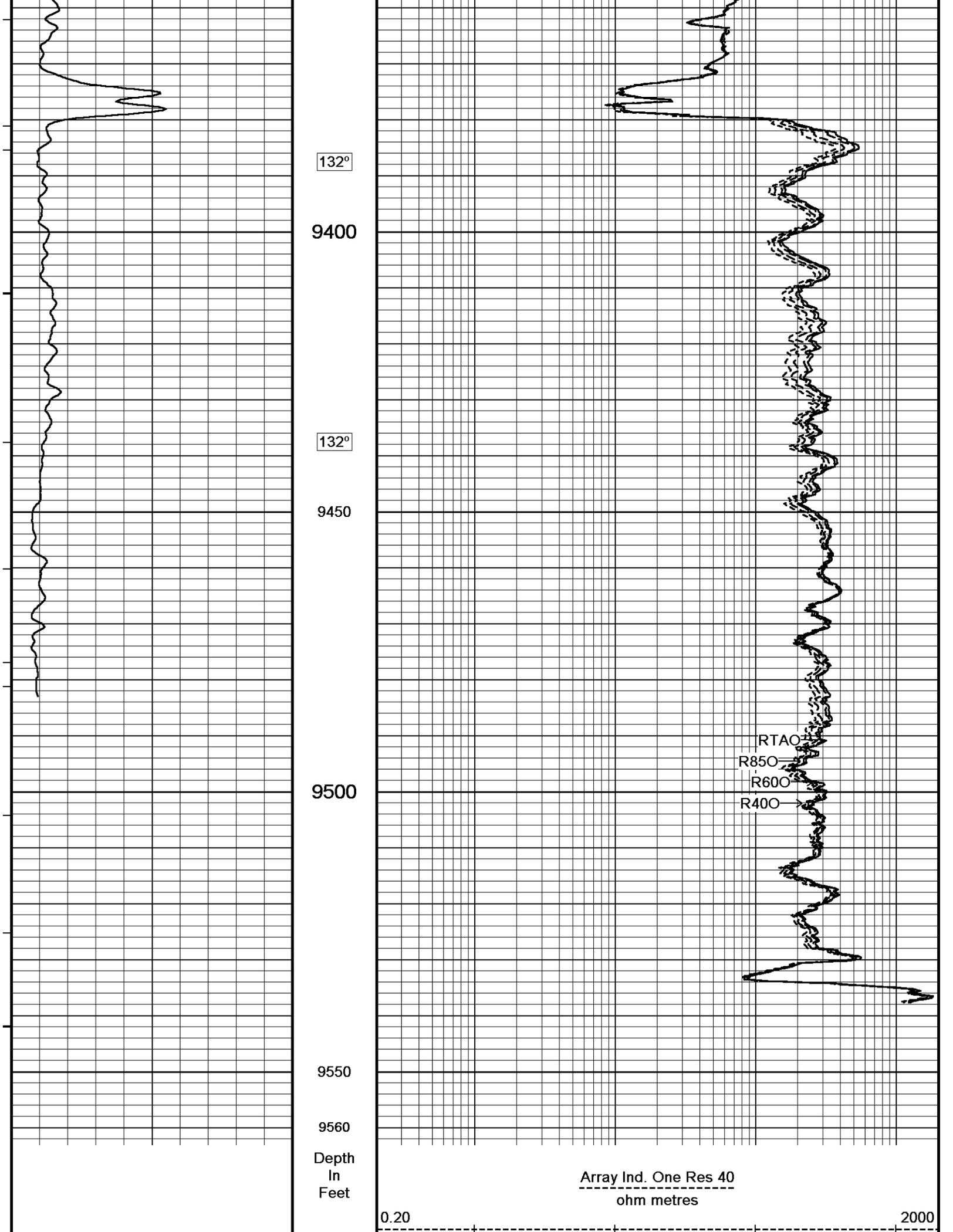
132°

9300

132°

9350





132°

9400

132°

9450

9500

RTAO  
R850  
R600  
R400

9550

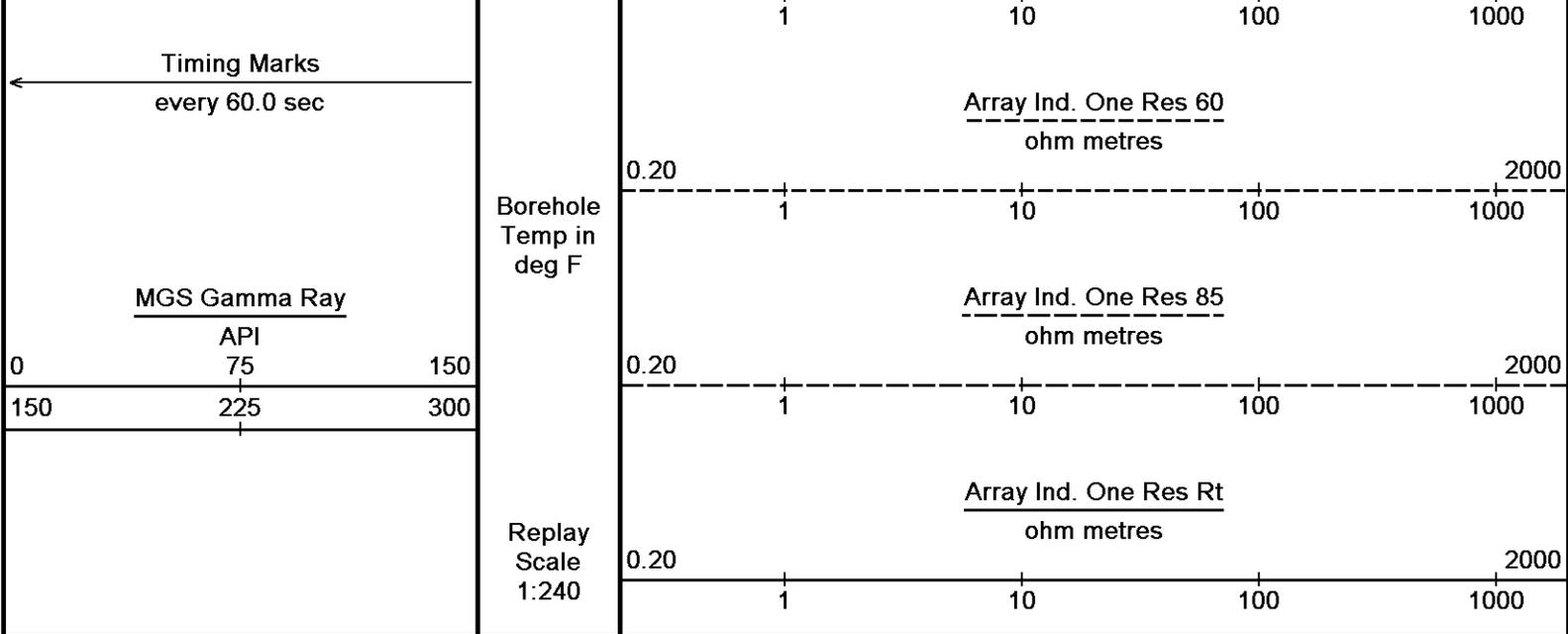
9560

Depth  
In  
Feet

Array Ind. One Res 40  
ohm metres

0.20

2000



Depth Based Data - Maximum Sampling Increment 10.0cm Plotted on 16-NOV-2012 18:22  
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 System Versions: Processed with 13.03.7779 Plotted with 13.03.7779

↑ 5 INCH MAIN LOG ↑

**BEFORE SURVEY CALIBRATION**  
 C:\Data\SANDRIDGE FOLDER\SANDRIDGE ANITA 3420 1-12H\33021RTAP.dta

General Constants All 000 Last Edited on 16-NOV-2012,17:59

<b>General Parameters</b>			
Mud Resistivity	1.100	ohm-metres	
Mud Resistivity Temperature	70.000	degrees F	
Water Level	0.000	feet	
Density/Neutron Processing	Wet Hole		
<b>Hole/Annular Volume and Differential Caliper Parameters</b>			
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		
<b>Rwa Parameters</b>			
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 SER-B.A 150 Last Edited on 10-AUG-2012,12:06

Atmospheric Pressure	14.70	psi						
Serial Number	257260							
Calibration Date	05-Oct-10							
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.	Inc.	Dec.	Inc.	Dec.	Inc.	Dec.
0.0	-0.300	-0.300	-0.284	-0.285	-0.273	-0.274	-0.274	-0.272
3000.0	4.875	4.881	4.896	4.901	4.912	4.917	4.918	4.923
6000.0	10.060	10.072	10.086	10.097	10.109	10.121	10.120	10.133
9000.0	15.258	15.271	15.289	15.302	15.318	15.332	15.335	15.350
12000.0	20.469	20.478	20.506	20.515	20.542	20.552	20.556	20.576
15000.0	25.695		25.738		25.782		25.813	

Strain Gauge Constants MMS E.B 133 Last Edited on 10-AUG-2012 12:12

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	250.0	350.0	degrees F			
Pressure psia	Inc.	Dec.	Inc.	Dec.	Inc.	Dec.	Inc.	Dec.
0.0	0.069	0.073	0.062	0.063	0.042	0.042	0.021	0.021
3000.0	5.240	5.253	5.235	5.245	5.219	5.228	5.199	5.209
6000.0	10.422	10.442	10.421	10.439	10.408	10.425	10.388	10.406
9000.0	15.616	15.637	15.619	15.638	15.609	15.627	15.593	15.610
12000.0	20.827	20.839	20.834	20.843	20.828	20.838	20.815	20.823
15000.0	26.051		26.060		26.056		26.046	

## MMS Parameters MMS-E.B 133

Last Edited on 15-NOV-2012 12:03

## Logging Parameters

Firmware Version	2v40	
Caliper Open On	MAI	
Caliper Open Delay		minutes
Caliper Closed On	Unknown	
Caliper Closed Delay	N/A	minutes
Sample Rate	1.00	seconds
Use Deep Sleep	No	
Delay Deep Sleep	N/A	
Deep Sleep Wake Time	N/A	minutes
Deep Sleep Wake on Temperature	N/A	
Deep Sleep Wake Temperature	N/A	degrees C
Deep Sleep Wake on Pressure	N/A	
Deep Sleep Wake Pressure	N/A	psi
MMI Pad Pressure	0.0	

## Release Parameters

Pulse Duration Base Level	10.0	seconds
Pulse Duration Transition Time	60.0	seconds
Pulse Duration Status Pulse From	20.0	seconds
Pulse Duration Caliper Close From	145.0	seconds
Pulse Duration Caliper Open From	150.0	seconds
Pulse Duration Release Pulse From	215.0	seconds
Pulse Duration Release Pulse To	280.0	seconds
Pulse Release Duration	240.0	seconds
Pulse Discriminator Pressure Band	96.0	seconds
Pulse Pressure Discriminator	213.0	seconds
Use Negative Pulsing	No	
Good Status Reply Open Hole	65535.0	seconds
Good Status Reply Cased Hole	20.0	seconds
Bad Status Reply	60.0	seconds
Status Pulse To	80.0	seconds
Caliper Close To		seconds
Caliper Open To	210.0	seconds

## Configuration

SER,MMS,MGS,MDN,MPD,MPD,MFE,MAI

## 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 16-NOV-2012,09:40

Gamma Calibrator Number	036	
Mud Density	1.03	gm/cc
Caliper Source for Processing	Density Caliper	
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	
	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 15-NOV-2012 10:58	
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 15-NOV-2012,10:51	
Neutron Source Id	N1055			
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	Constant Value			
Formation Pressure	0.00	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			
FE Calibration MFE-B.J 363			Base Calibration on 30-OCT-2012 13:30 Field Check on 15-NOV-2012 10:42	
Base Calibration				
	Measured	Calibrated (ohm-m)		
Reference 1	0.0	0.0		
Reference 2	964.4	126.8		
Base Check	281.4			
Field Check	281.8			
FE Constants MFE-B.J 363			Last Edited on 16-NOV-2012,17:59	
Running Mode	No Sleeve			
MFE K Factor	0.1268			
Caliper Source for FE correction	Density Caliper			
Caliper Value for FE correction	N/A	inches		
Rm Source for FE correction	Temperature Corr			

Temp. for Rm Corr. MGS External Temperature 0.5 inches

Induction Calibration MAI-A.A 170

Base Calibration on 02-FEB-2012 17:42  
Field Check on 15-NOV-2012 10:39

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			10.5	3753.5
2			29.4	3530.1
3			27.1	2997.9
4			18.4	2043.1
Deep			15.3	1906.0
Medium			40.7	3982.2
Shallow			45.6	5291.8

Array Temperature 52.3 Deg F

Induction Constants MAI-A.A 170

Last Edited on 16-NOV-2012,17:59

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	0.0060	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



# DOWNHOLE EQUIPMENT

C:\Data\SANDRIDGE FOLDER\SANDRIDGE ANITA 3420 1-12H\33021RTAP.dta

Shuttle Mechanical Release (SMR A)  
SMR-A 167 LG: 8.53 ft WT: 77.2 lb OD: 2.52 in

Shuttle Electrical Release  
SER-B.A 150 LG: 6.90 ft WT: 50.7 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 Calliper Locator



61.76 ft GRGM - MGS Gamma Ray

59.77 ft GSXT - MGS External Temperature

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 472 LG: 2.17 ft WT: 24.3 lb OD: 2.24 in

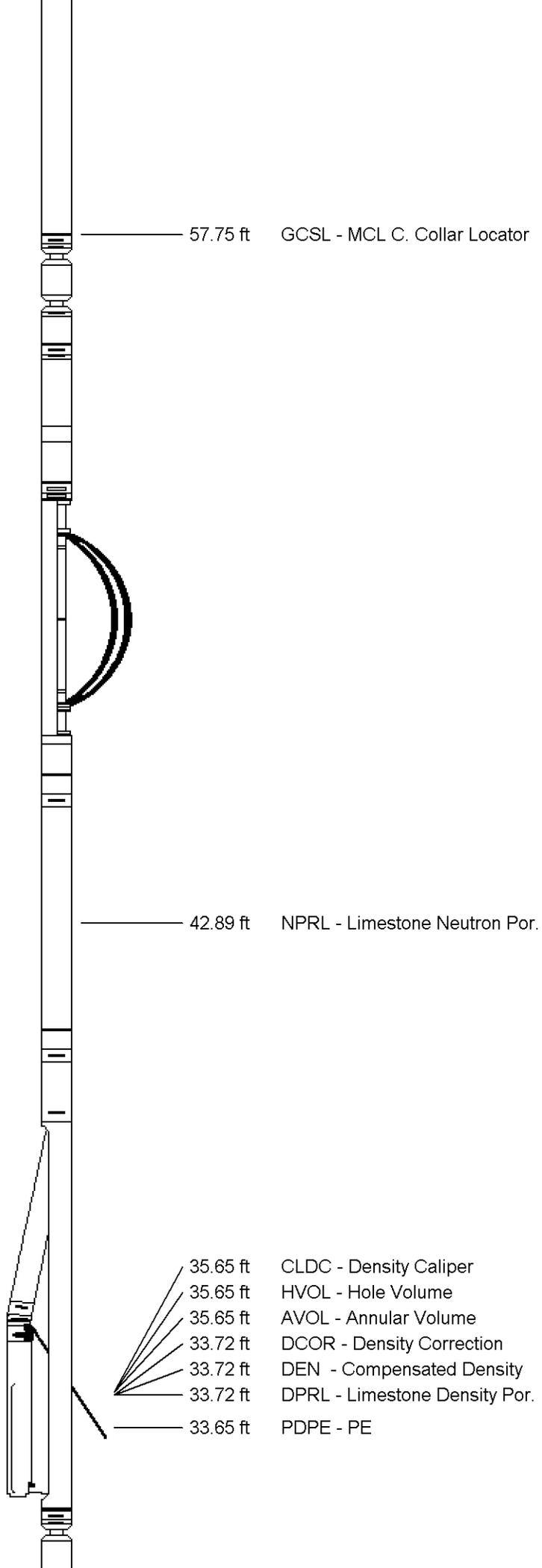
SHA-J.A Compact Swivel Head Adaptor  
SHA-J.A 438 LG: 2.30 ft WT: 22.0 lb OD: 2.24 in

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

SKJ-E.B Compact Knuckle Joint



SKJ-E.B 479 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

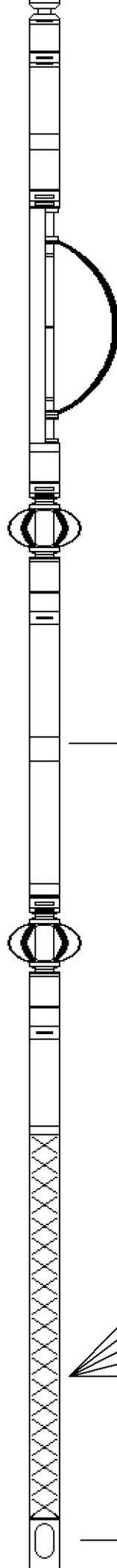
MIS-D.B Compact Inline Bowspring sub  
MIS-D.B 607 LG: 5.70 ft WT: 33.1 lb OD: 2.24 in

MIS-E.B Compact Inline Standoff sub  
MIS-E.B 595 LG: 2.14 ft WT: 15.4 lb OD: 2.24 in

Compact Focussed Electric  
MFE-B.J 363 LG: 6.05 ft WT: 48.5 lb OD: 2.24 in

MIS-E.A Compact Inline Standoff sub  
MIS-E.A 337 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



15.86 ft FEFE - Shallow FE

3.34 ft CTAO - Array Ind. One Cond Ct  
3.34 ft R400 - Array Ind. One Res 40  
3.34 ft R600 - Array Ind. One Res 60  
3.34 ft R850 - Array Ind. One Res 85  
3.34 ft RTAO - Array Ind. One Res Rt

Tool Zero (1.84ft from bottom)



Total Length: 86.56 ft Weight: 657.0 lb

All measurements relative to tool zero.

**COMPANY** SANDRIDGE ENERGY  
**WELL** ANITA 3420 1-12H  
**FIELD** ANNA MAE SOUTHWEST  
**PROVINCE/COUNTY** COMANCHE  
**COUNTRY/STATE** USA \ KANSAS

Elevation Kelly Bushing	1814.00	feet	First Reading	9538.00	feet
Elevation Drill Floor	1814.00	feet	Depth Driller	9576.00	feet
Elevation Ground Level	1793.00	feet	Depth Logger	9576.00	feet

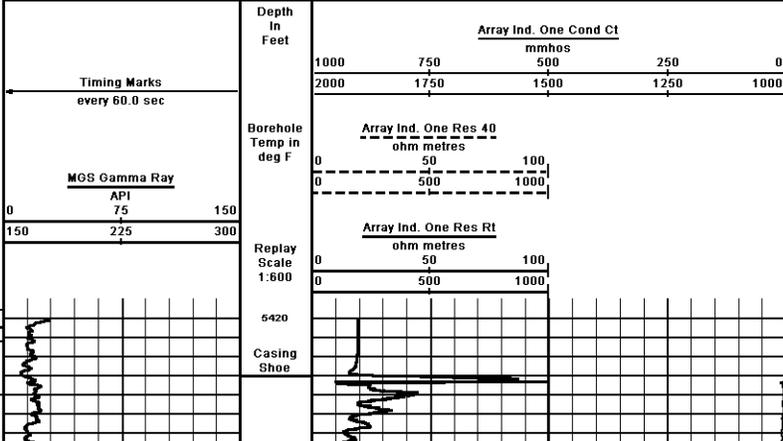


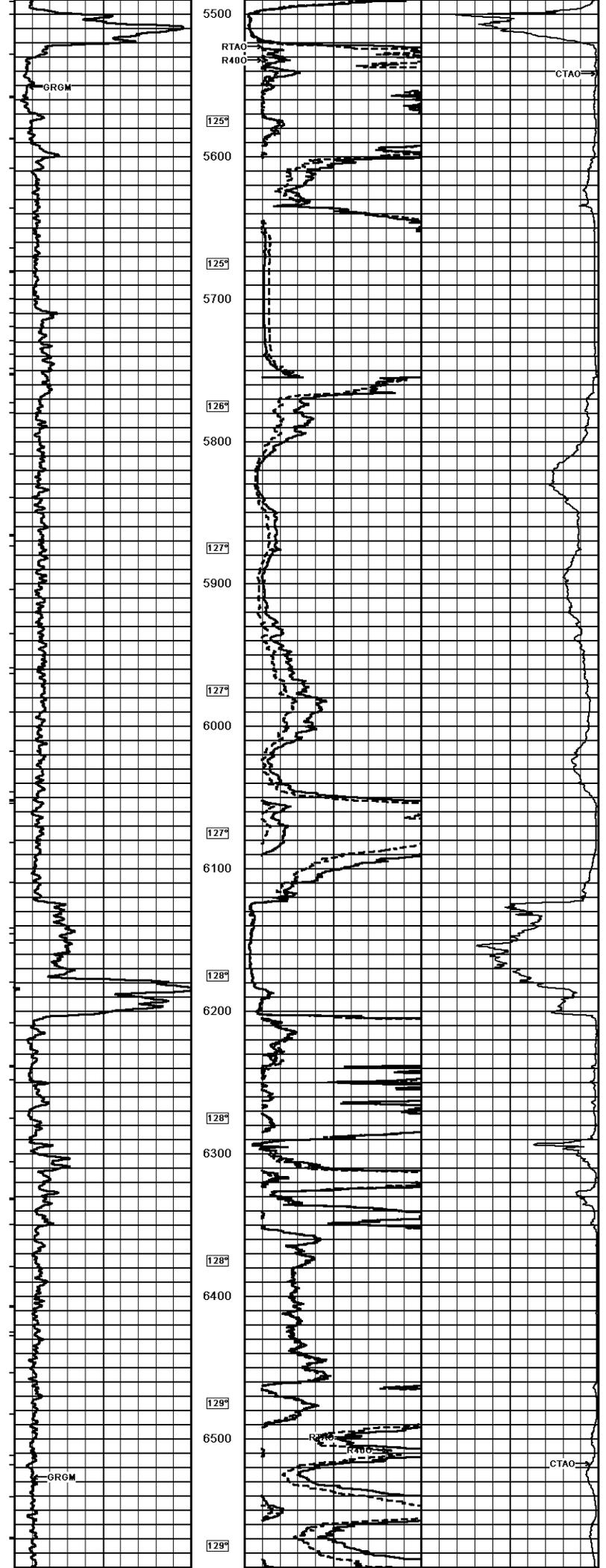
**Weatherford**<sup>®</sup>

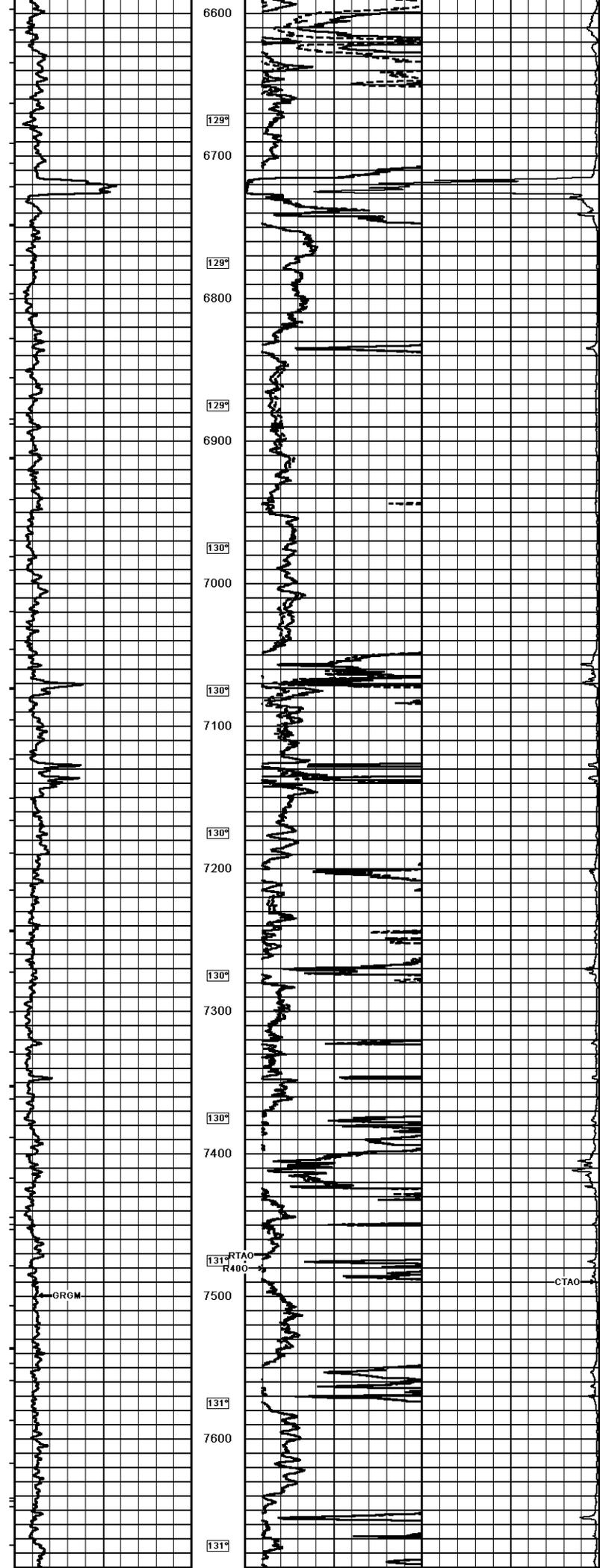
**CML IMPULSE SHUTTLE  
 ARRAY INDUCTION  
 ELECTRIC LOG**

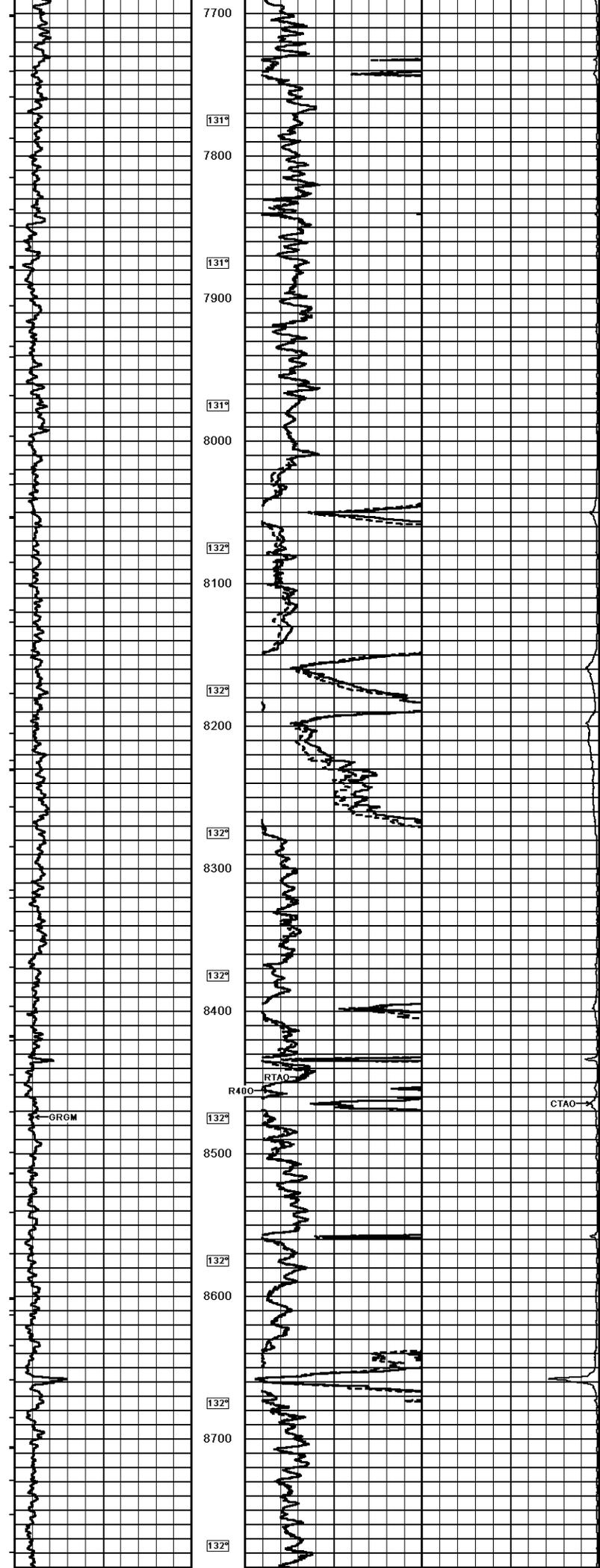
		<b>CML IMPULSE SHUTTLE          ARRAY INDUCTION          ELECTRIC LOG</b>	
<b>COMPANY</b> SANDRIDGE ENERGY <b>WELL</b> ANITA 3420 1-12H <b>FIELD</b> ANNA MAE SOUTHWEST <b>PROVINCE/COUNTY</b> COMANCHE <b>COUNTRY/STATE</b> USA \ KANSAS <b>LOCATION</b> N2 N2 NW NE 200' FNL & 1980' FEL of NE/4			
<b>LOG</b> Log Number: 15-033-21673 Permanent Datum OL, Elevation 1793.00 feet Log Measured From KB Drilling Measured From KB @ 21' AGL Date: 15-NOV-2012	<b>TYPE</b> 345 <b>LOG</b> 20W <b>Other Services</b> W/D/MD/DN	<b>REVISIONS</b> 1814.00 1814.00 1793.00	
<b>Run Number</b> ONE <b>Depth Driller</b> 9576.00 feet <b>Depth Logger</b> 9576.00 feet <b>First Reading</b> 9538.00 feet <b>Last Reading</b> 4880.00 feet <b>Casing Driller</b> 4497.00 feet <b>Casing Logger</b> 4430.00 feet <b>Bit Size</b> 6.125 inches <b>Hoop Fluid Type</b> WATER <b>Density/Viscosity</b> 8.80 180/59 <b>PH/Fluid Loss</b> 9.50 27.00 GPR <b>Sample Source</b> FLOWLINE <b>From @ Measured Temp</b> 1.10 @ 70.0 ohm-in <b>From @ Measured Temp</b> 0.88 @ 70.0 ohm-in <b>From @ Measured Temp</b> 1.32 @ 70.0 ohm-in <b>Source Firm / Firm</b> CALC CALC <b>From @ BHT</b> 0.60 @ 32.0 ohm-in <b>Time Since Circulation</b> 12 HOURS <b>Max Recorded Temp</b> 133.00 deg F <b>Equipment Name</b> COMPACT <b>Equipment Base</b> 18877 <b>Recorded By</b> SUTHERLAND <b>Witnessed By</b> J.HALEMAN <b>SO#</b> 3538586			

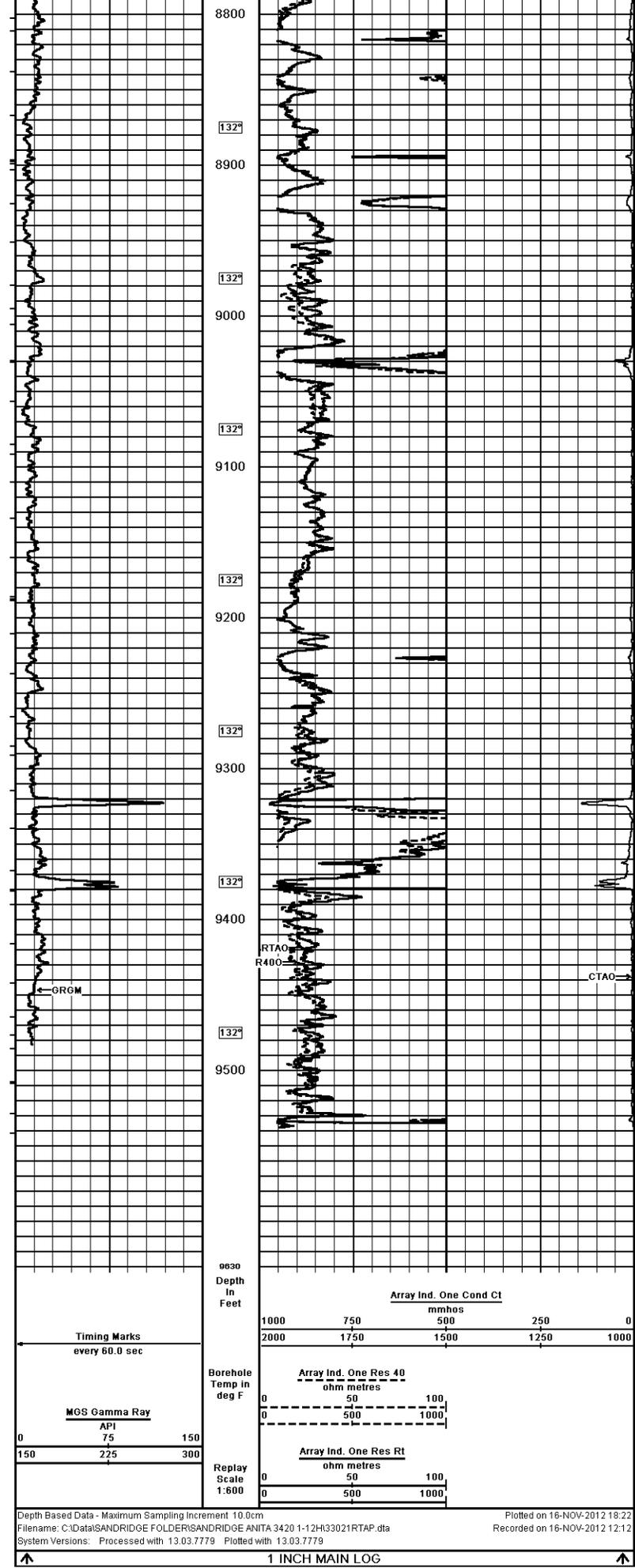
**1 INCH MAIN LOG**  
 Depth Based Data - Maximum Sampling Increment 10.0cm  
 Plotted on 16-NOV-2012 18:22  
 Filename: C:\Data\SANDRIDGE FOLDERS\SANDRIDGE ANITA 3420 1-12H\33021RTAP.dta  
 Recorded on 16-NOV-2012 12:12  
 System Versions: Processed with 13.03.7779 Plotted with 13.03.7779











<b>Timing Marks</b> every 60.0 sec	<b>Borehole Temp in deg F</b> 0 75 150 150 225 300	<b>Array Ind. One Cond Ct</b> mmhos 1000 750 500 250 0 2000 1750 1500 1250 1000
		<b>Array Ind. One Res 40</b> ohm metres 0 50 100 0 500 1000
<b>MGS Gamma Ray</b> API 0 75 150 150 225 300	<b>Replay Scale</b> ohm metres 0 50 100 0 500 1000	

Depth Based Data - Maximum Sampling Increment 10.0cm  
 Plotted on 16-NOV-2012 18:22  
 Filename: C:\Data\SANDRIDGE FOLDERS\ANDRIDGE ANITA 3420 1-12H\33021RTAP.dta  
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	CML IMPULSE SHUTTLE ARRAY INDUCTION ELECTRIC LOG
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