Weatherford®

CML IMPULSE SHUTTLE ARRAY INDUCTION LOG

COMPANY	SANDRIDGE ENERGY
WELL	KELLY DANIELLE 3119 1-23H
FIELD	SIX MOONS
PROVINCE/COUNTY	COMANCHE
COUNTRY/STATE	USA / KANSAS
LOCATION	S2 S2 SW SW
	200' FSL & 660' FWL

SEC	TWP	RGE	Other Services
23	31S	19W	MDN/MPD
			CMI

API Number 15-033-21637
Permit Number

Permanent Datum GL, Elevation 2133 feet
Log Measured From KB
Drilling Measured From KB

Elevations:	feet
KB	2153.00
DF	2153.00
GL	2133.00

Date	06-JUL-2012			
Run Number	ONE			
Depth Driller	9593.00	feet		
Depth Logger	9593.00	feet		
First Reading	9558.00	feet		
Last Reading	5650.00	feet		
Casing Driller	5653.00	feet		
Casing Logger	5650.00	feet		
Bit Size	6.125	inches		
Hole Fluid Type	WATER			
Density / Viscosity	8.50 lb/USg	28.00 CP		
PH / Fluid Loss	10.00	60.00 ml/30Min		
Sample Source	FLOWLINE			
Rm @ Measured Temp	0.90 @ 90.0	ohm-m		
Rmf @ Measured Temp	0.72 @ 90.0	ohm-m		
Rmc @ Measured Temp	1.08 @ 90.0	ohm-m		
Source Rmf / Rmc	CALC	CALC		
Rm @ BHT	0.62 @134.0	ohm-m		
Time Since Circulation	1 HOUR			
Max Recorded Temp	134.00	deg F		
Equipment Name	COMPACT			
Equipment / Base	18077	OKC		
Recorded By	GUTHMUELLER			
Witnessed By	K GENTRY			
AFE# DC12083	SO# 3535269			

BOREHOLE RECORD

Last Edited: 06-JUL-2012 11:59

Bit Size inches	Depth From feet	Depth To feet
12.250	0.00	1005.00
8.750	1005.00	5653.00
6.125	5653.00	9593.00

CASING RECORD

Type	Size inches	Depth From feet	Shoe Depth feet	Weight pounds/ft
SURF	9.625	0.00	1005.00	36.00
INTER	7.000	0.00	5653.00	26.00

REMARKS

TOOLS RAN:SMR-166, SER-150, 200V MBS-113,MMSE-166,MTI-063, MGS-133,MCL-069, MDN-388, MPD-424,MIM-233,MIE-233, MAI-390
RAN IN COMBINATION
WELL LOGGED USING IMPULSE METHOD OF DEPLOYMENT, AND MEMORY LOGGING SYSTEM

HARDWARE: MAI: MIS-B 0.5" STANDOFF USED ABOVE MAI, ISA 0.5" STANDOFF USED BELOW MAI.
MIE: CENTRALIZER ABOVE AND BELOW IMAGER
- 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: 9467
LOGGING TOOL DEPTH AFTER DEPLOYMENT: 9563

LOGGING TOOL DEPTH AFTER DEPLOYMENT: 9563

BOREHOLE VOLUME TD TO PRODUCTION CASING = 860 CU FT
ANNULAR HOLE VOLUME CALCULATED USING WITH 4.5 INCH PRODUCTION CASING TD TO PRODUCTION CASING = 445 CU FT

SERVICE ORDER # 3535269
RIG: LARIAT 45

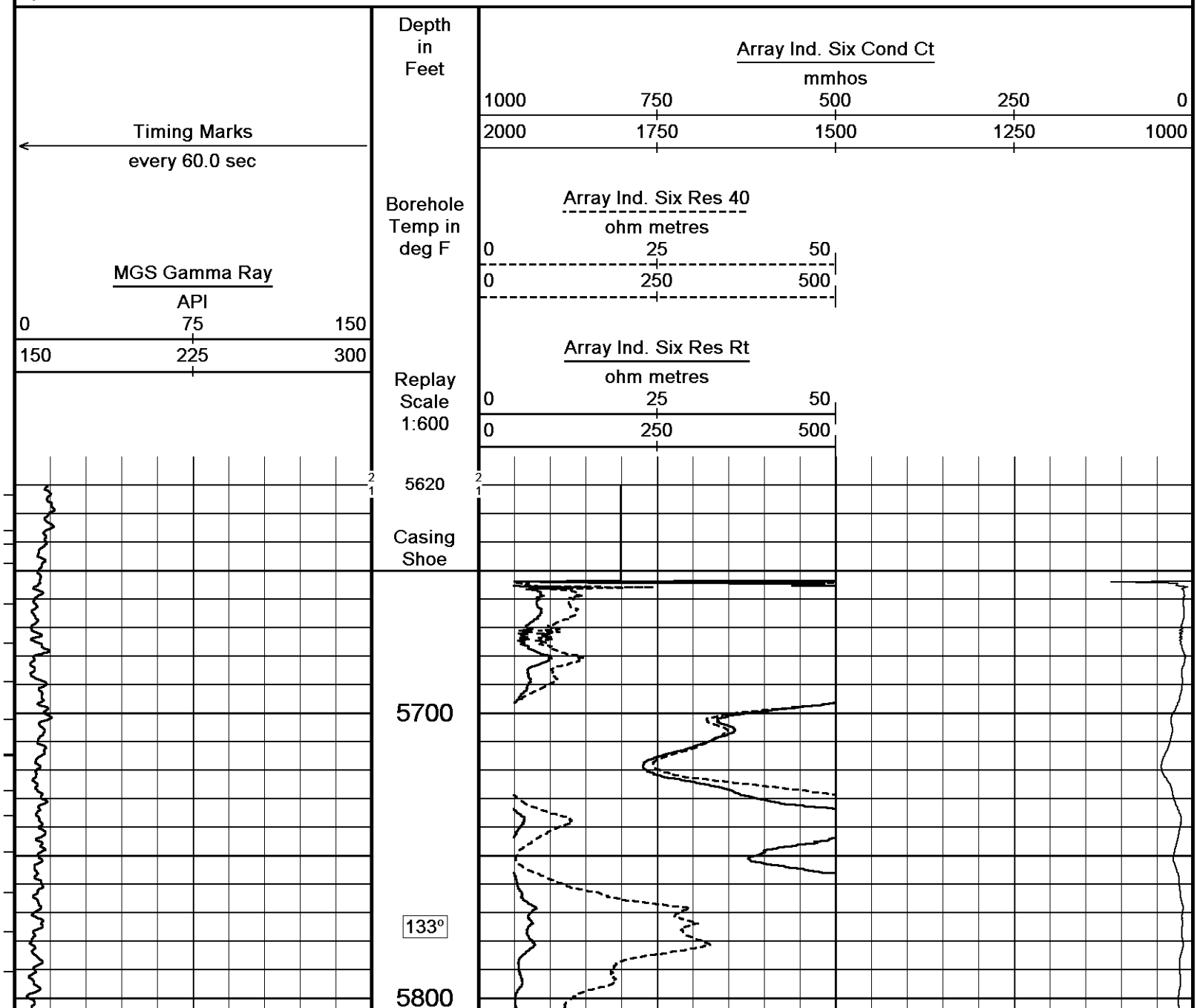
OPERATOR(S): R ROLLANS, R CASPARIAN

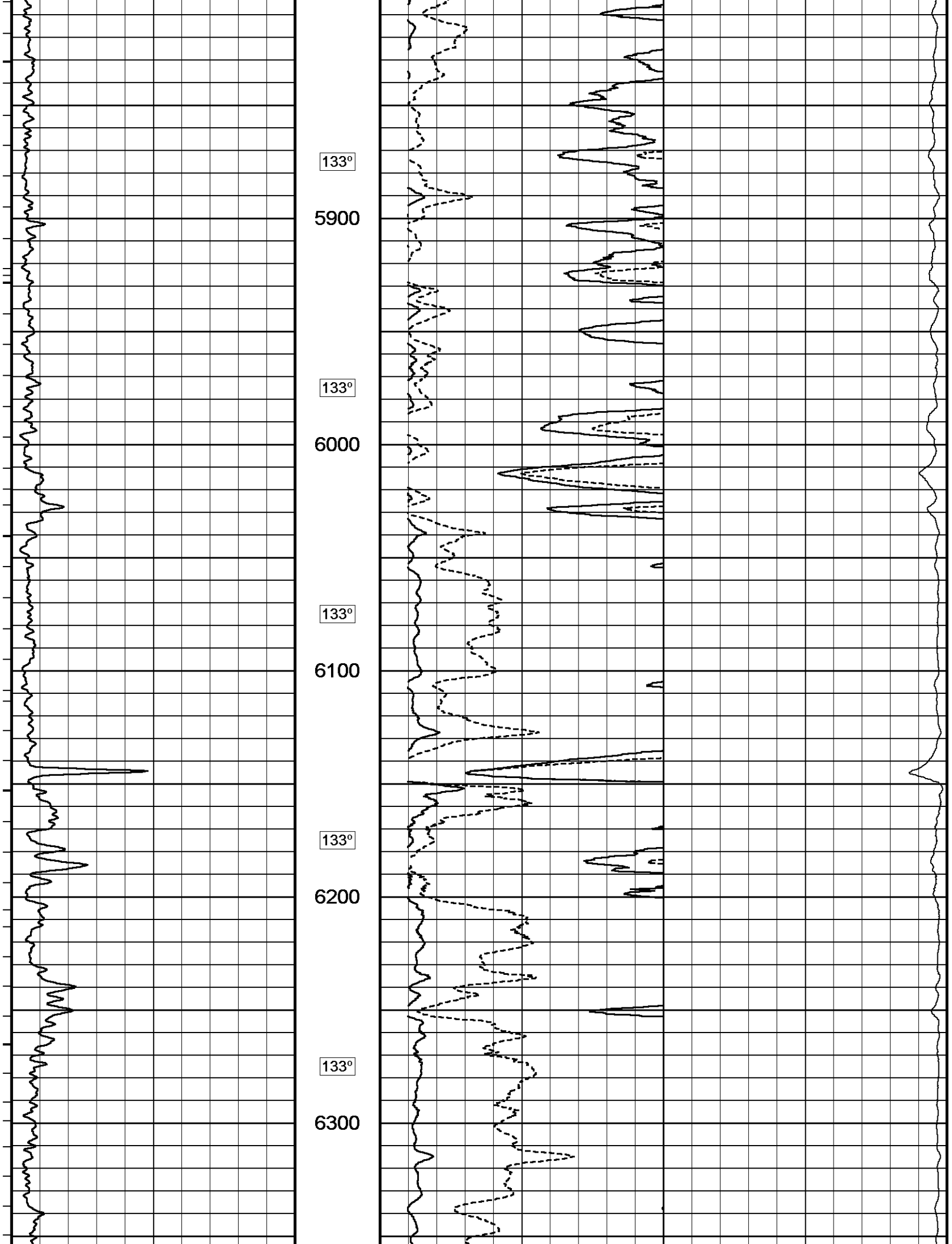
HOLE RUGOSITY MAY AFFECT LOG QUALITY.

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 07-JUL-2012 01:57
Filename: C:\Program Files\Weatherford\WLS 13.02\Data\SDRGE Kelly Danielle 311...\33046RTAP.dta
Recorded on 07-JUL-2012 00:32
System Versions: Processed with 13.02.6600 Plotted with 13.02.6600

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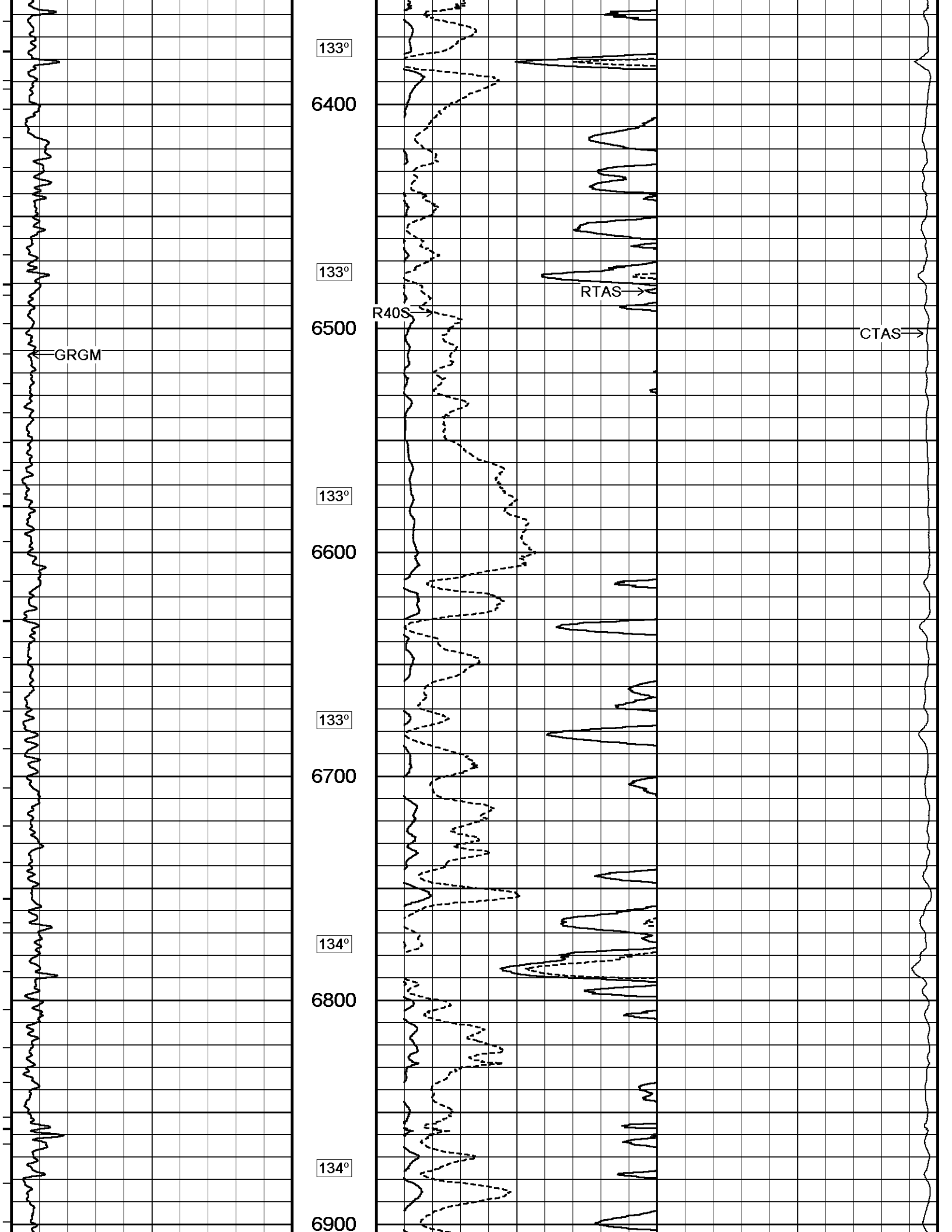
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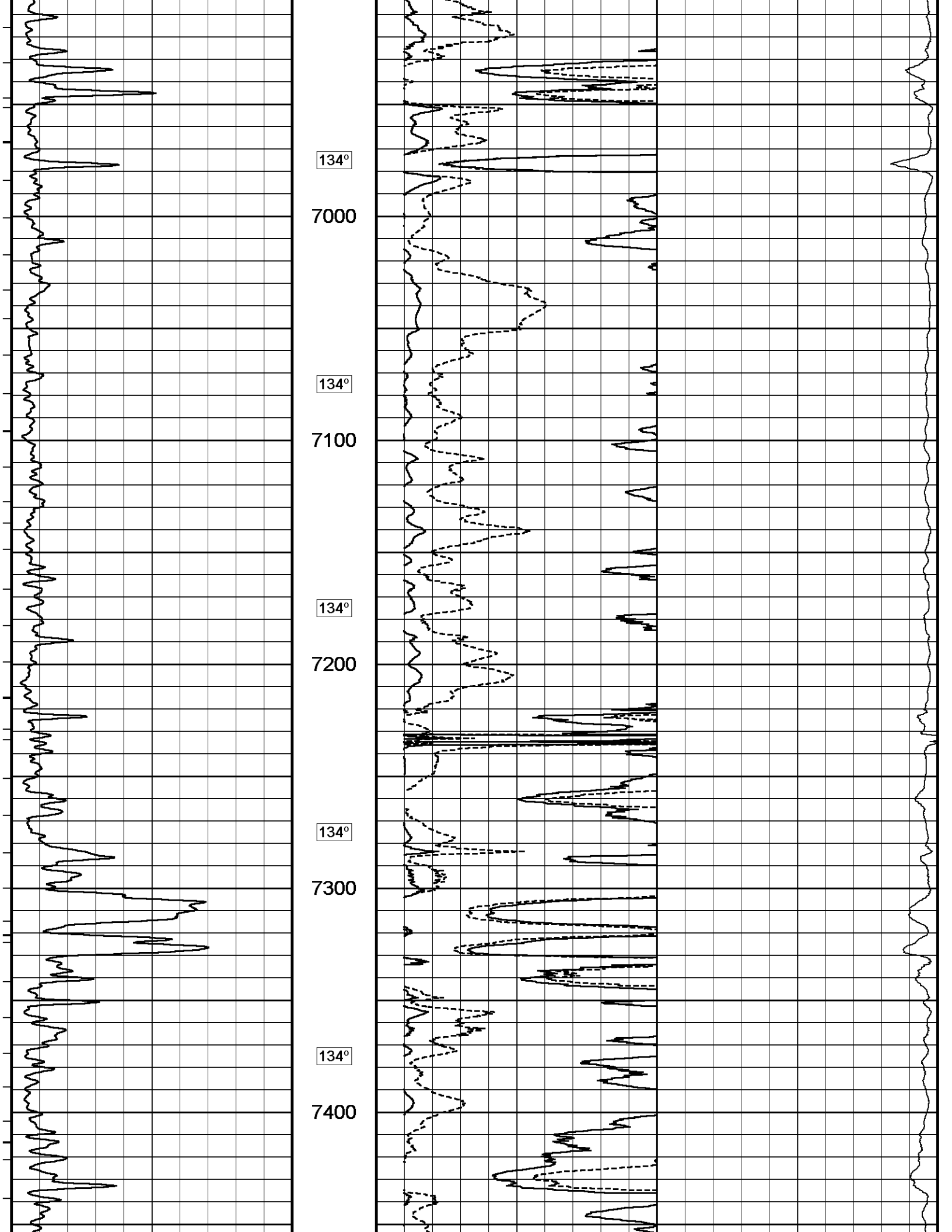
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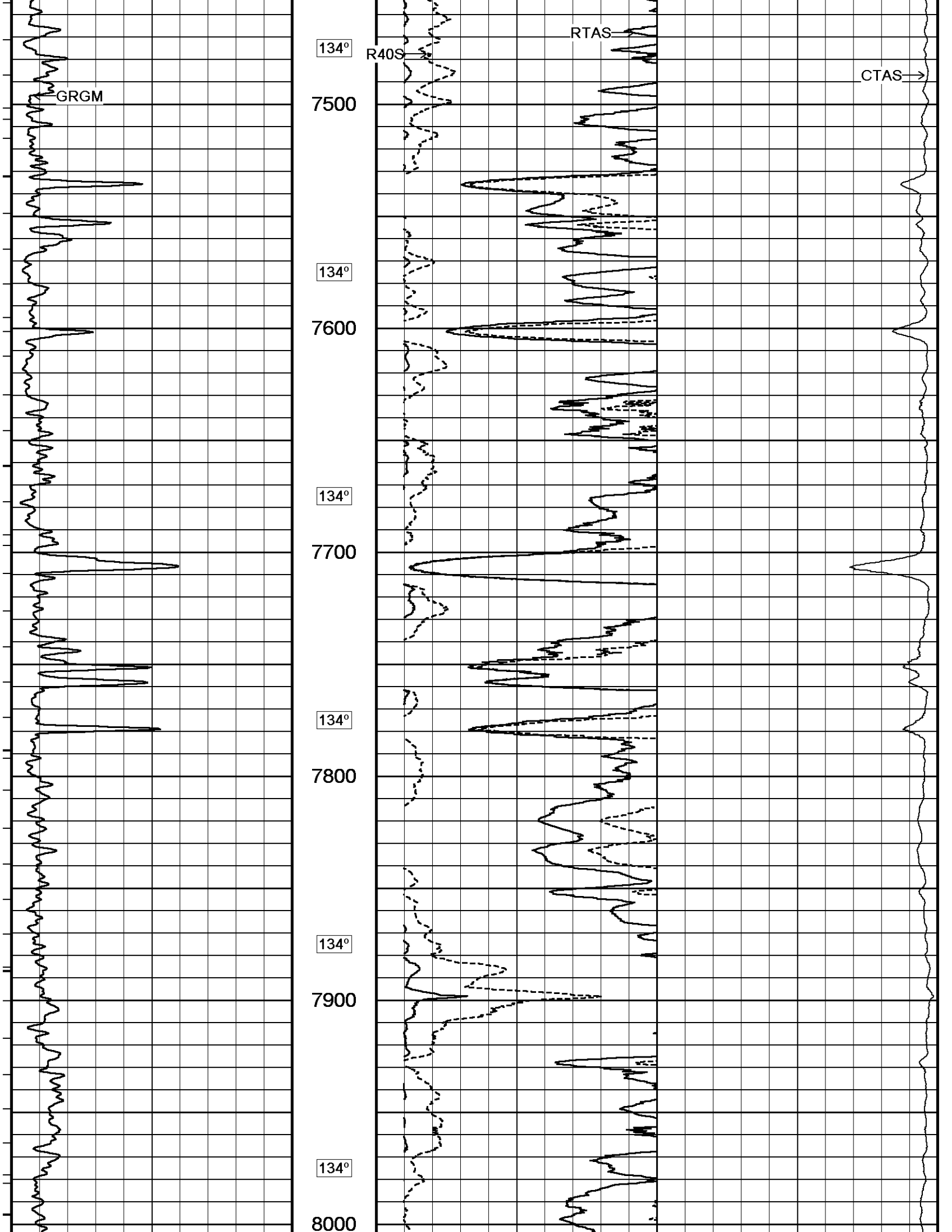
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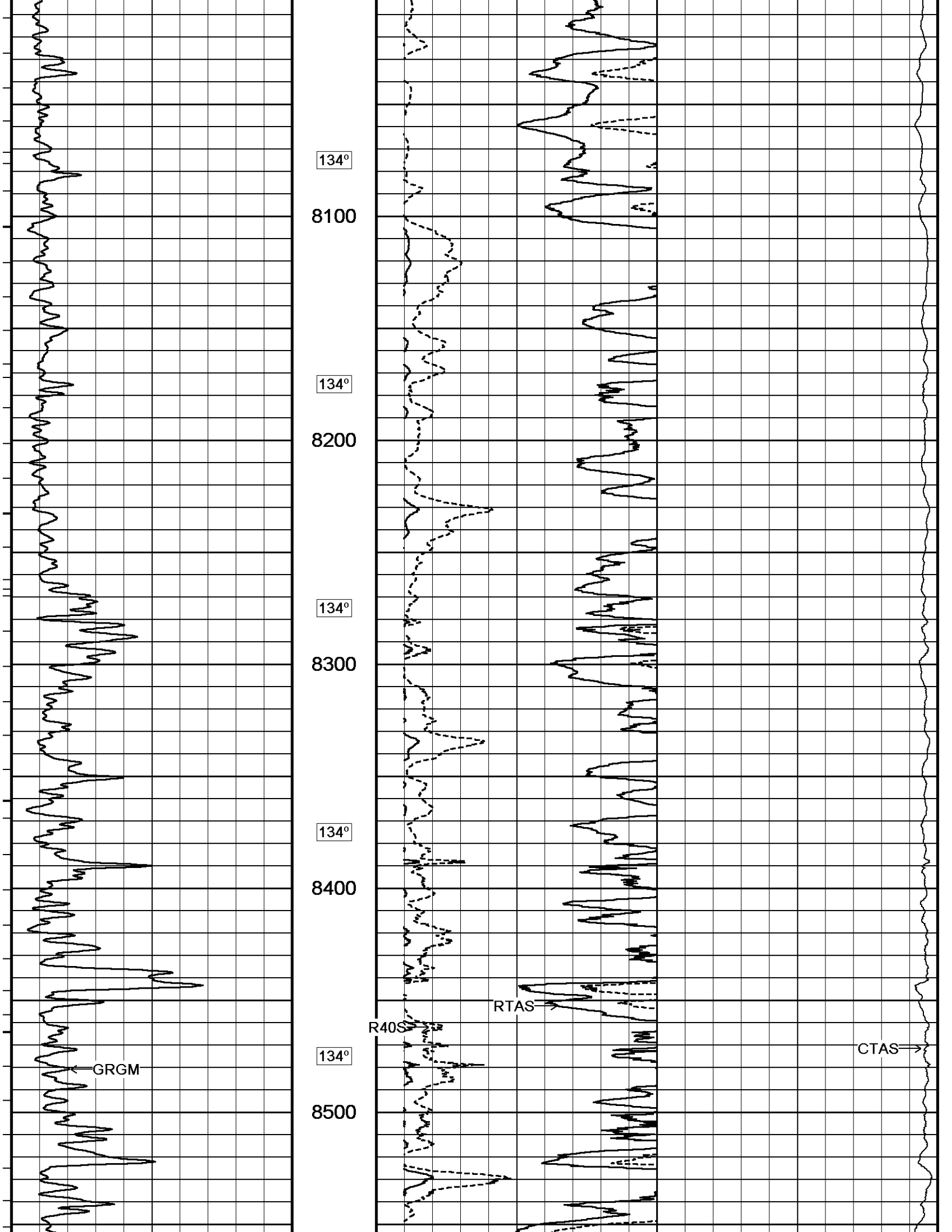
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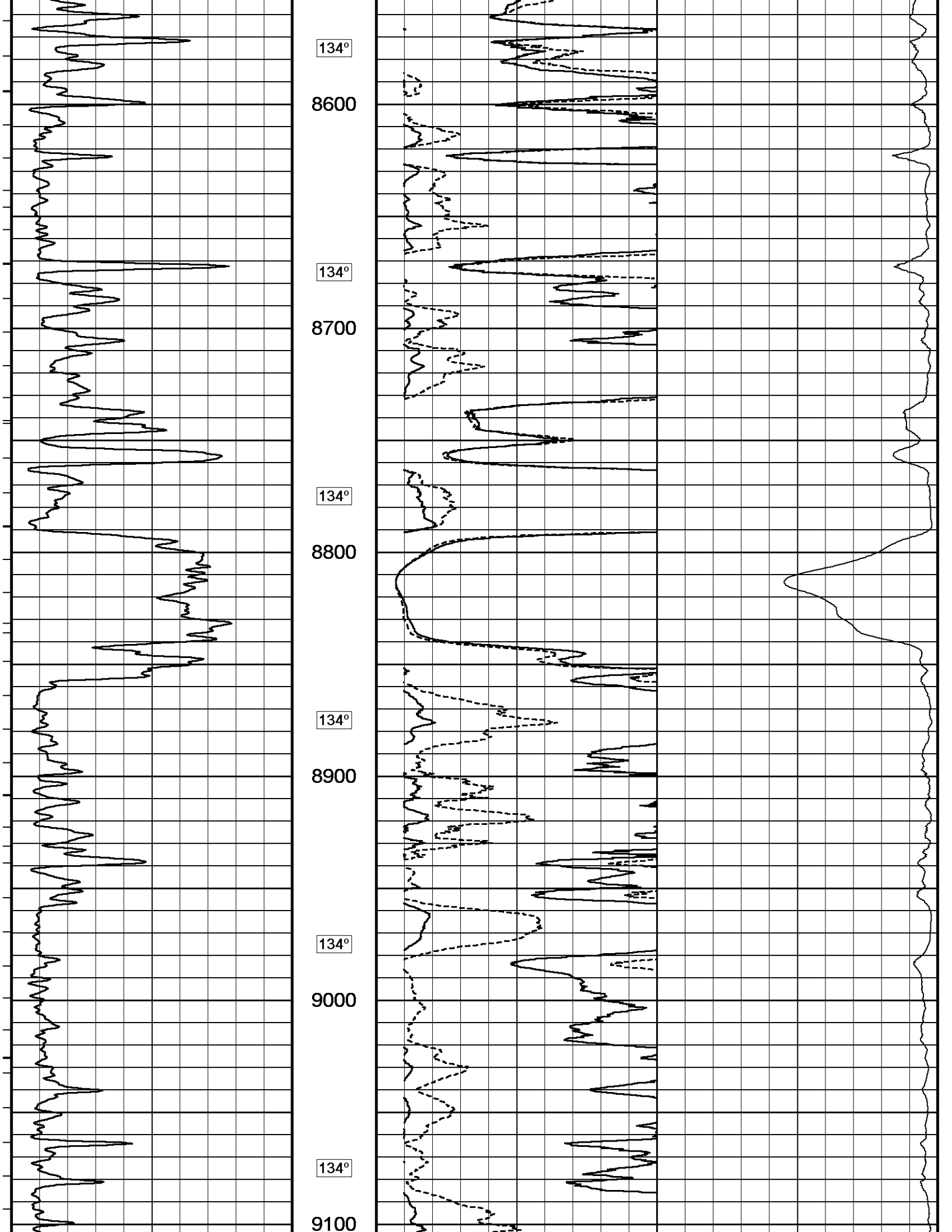
CTAS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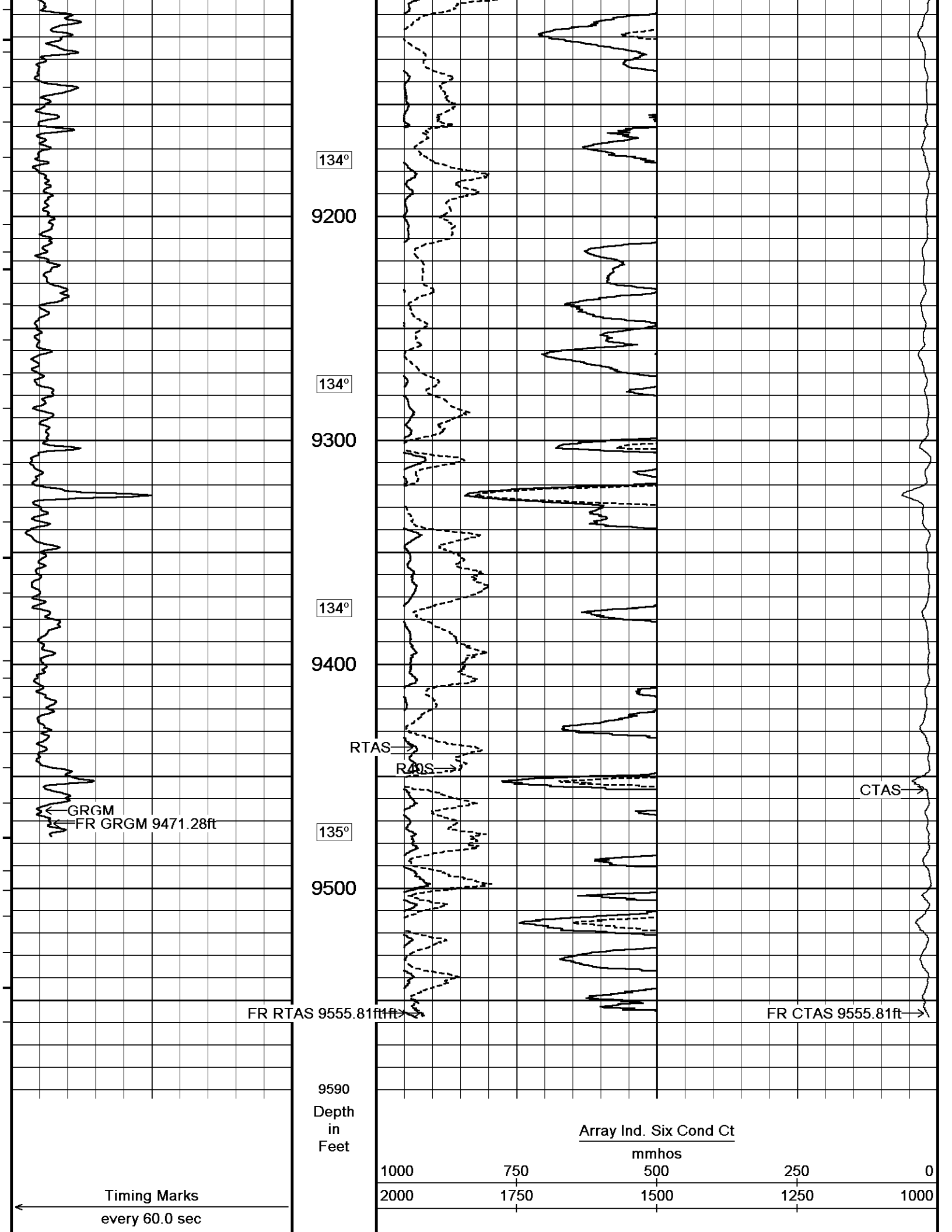
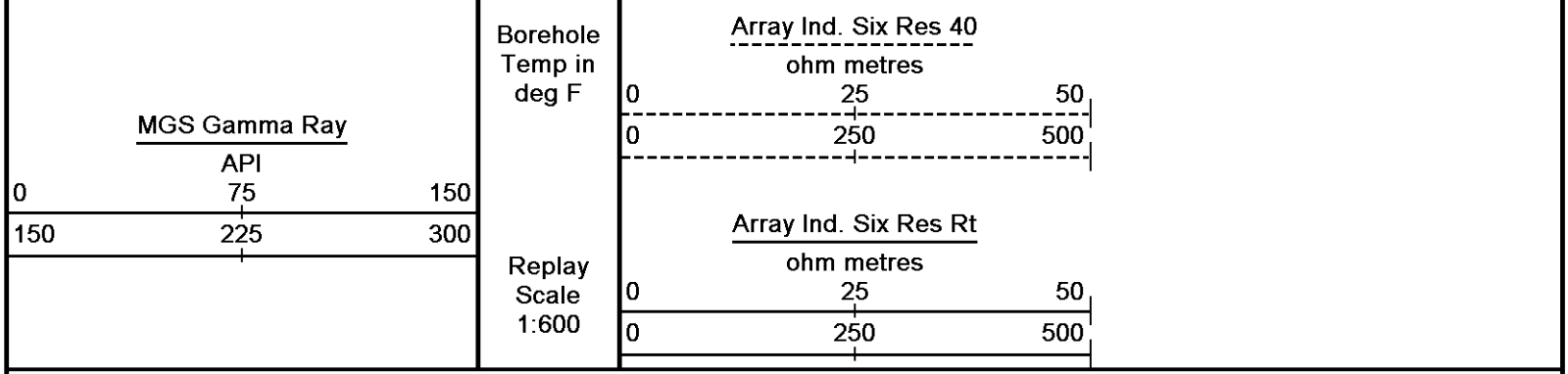

134°
9200
134°
9300
134°
9400
RTAS
R40S
CTAS
GRGM
FR GRGM 9471.28ft
135°
9500
FR RTAS 9555.81ft
FR CTAS 9555.81ft
9590
Depth
in
Feet
Array Ind. Six Cond Ct
mmhos
1000
750
500
250
0
2000
1750
1500
1250
1000
Timing Marks
every 60.0 sec



Depth Based Data - Maximum Sampling Increment 10.0cm — Plotted on 07-JUL-2012 01:57
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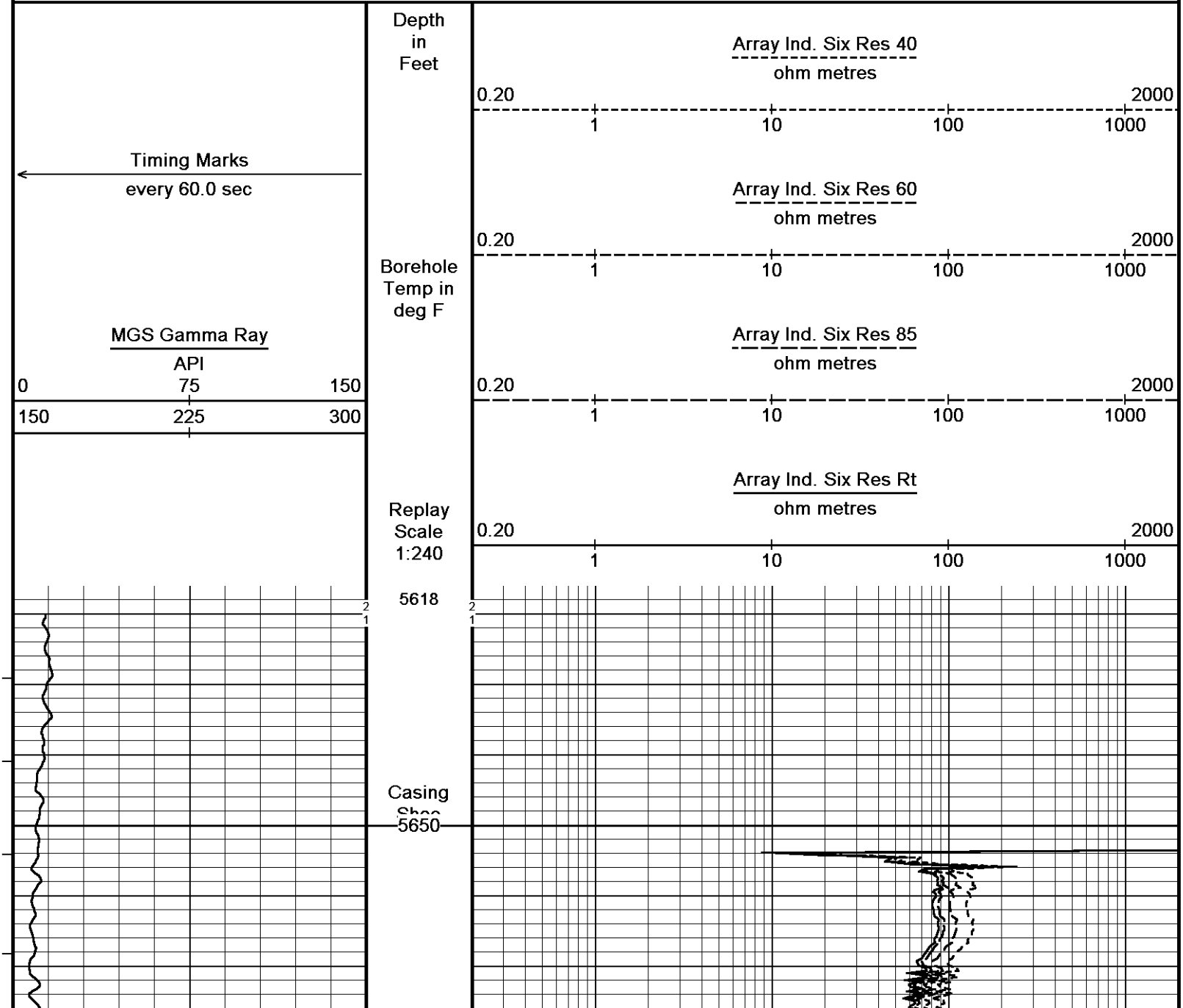
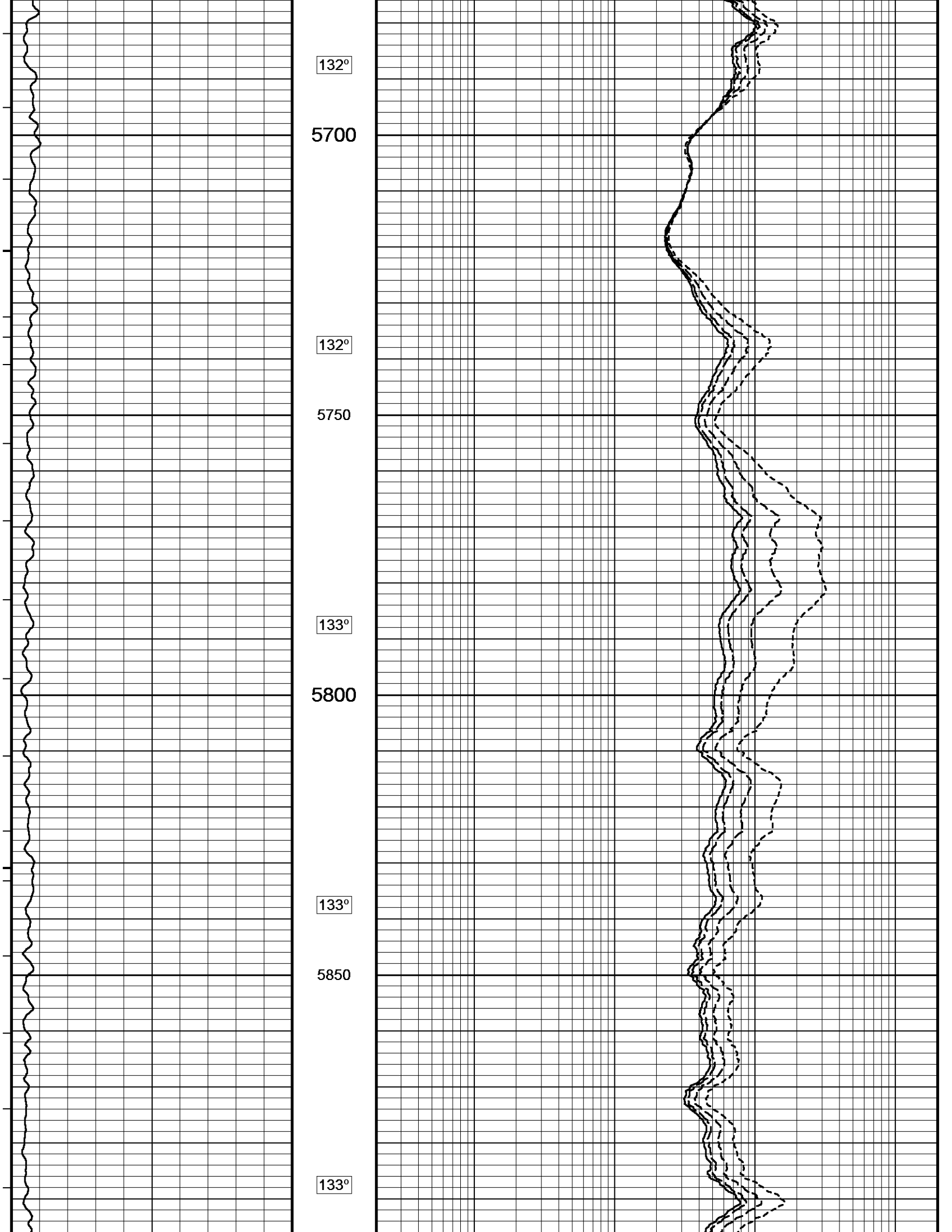
System Versions: Processed with 13.02.6600 Plotted with 13.02.6600

2 INCH MAIN LOG

5 INCH MAIN LOG

Depth Based Data - Maximum Sampling Increment 10.0cm — Plotted on 07-JUL-2012 01:57
Filename: C:\Program Files\Weatherford\WLS 13.02\Data\SDRGE Kelly Danielle 311...\33046RTAP.dta — Recorded on 07-JUL-2012 00:32
System Versions: Processed with 13.02.6600 Plotted with 13.02.6600

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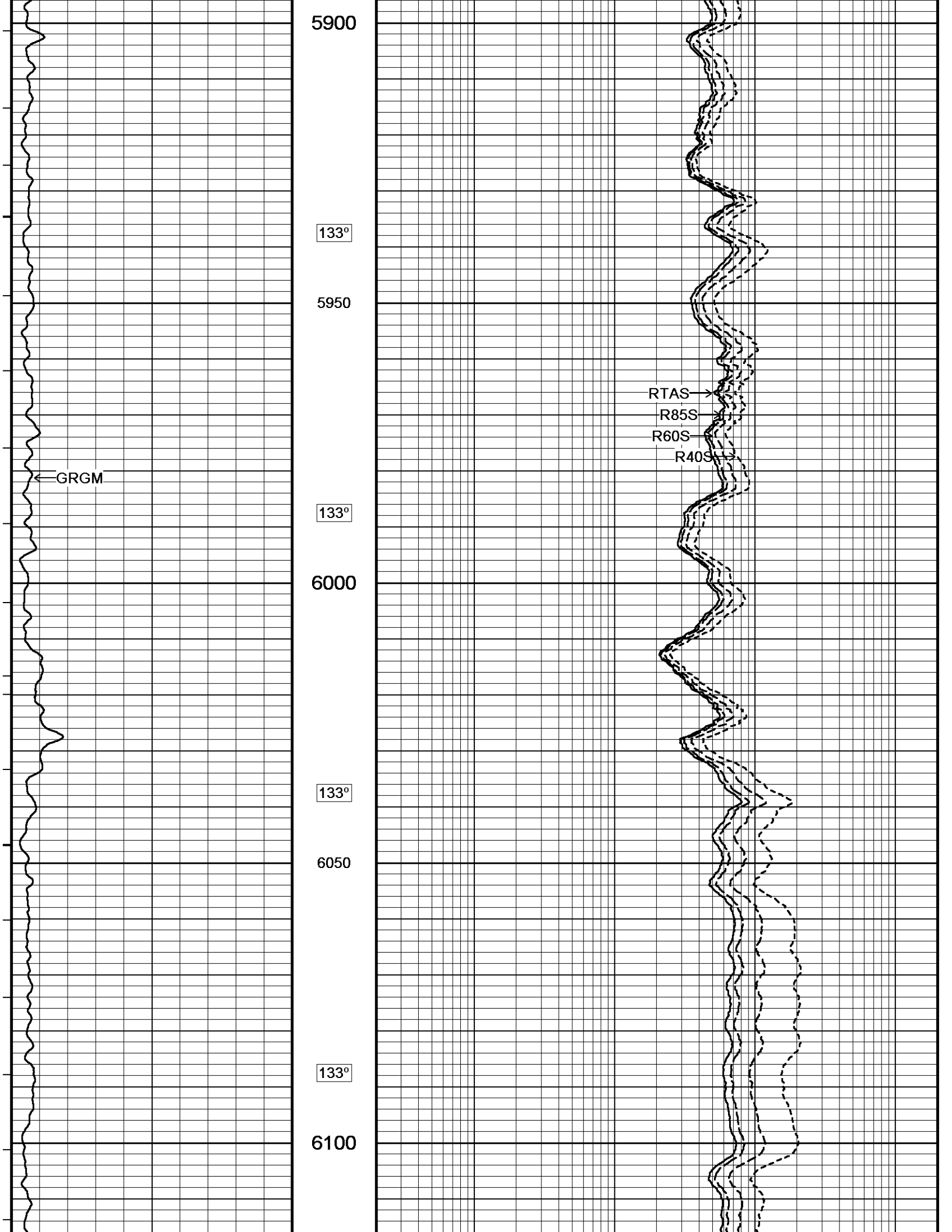
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RTAS
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GRGM
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133°
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133°
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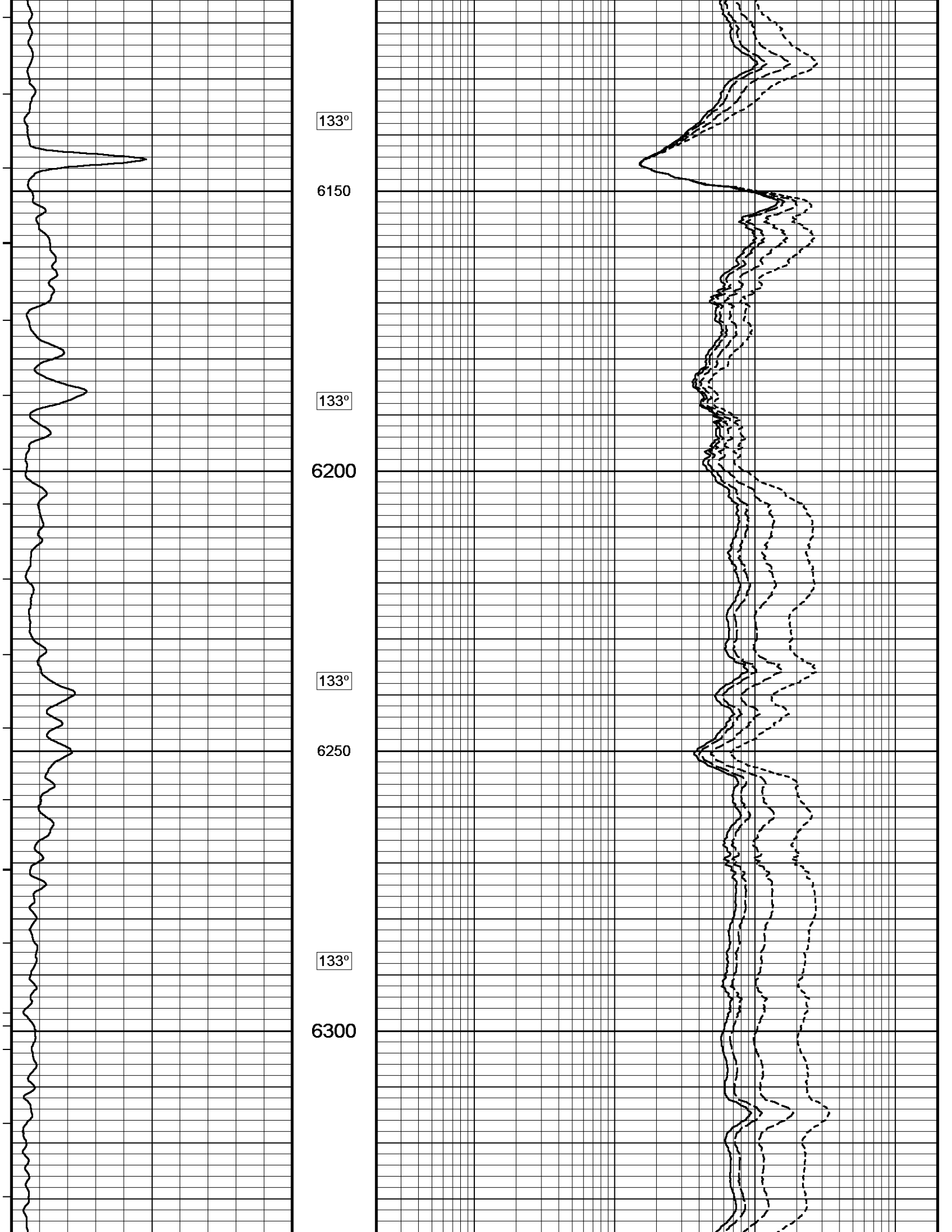
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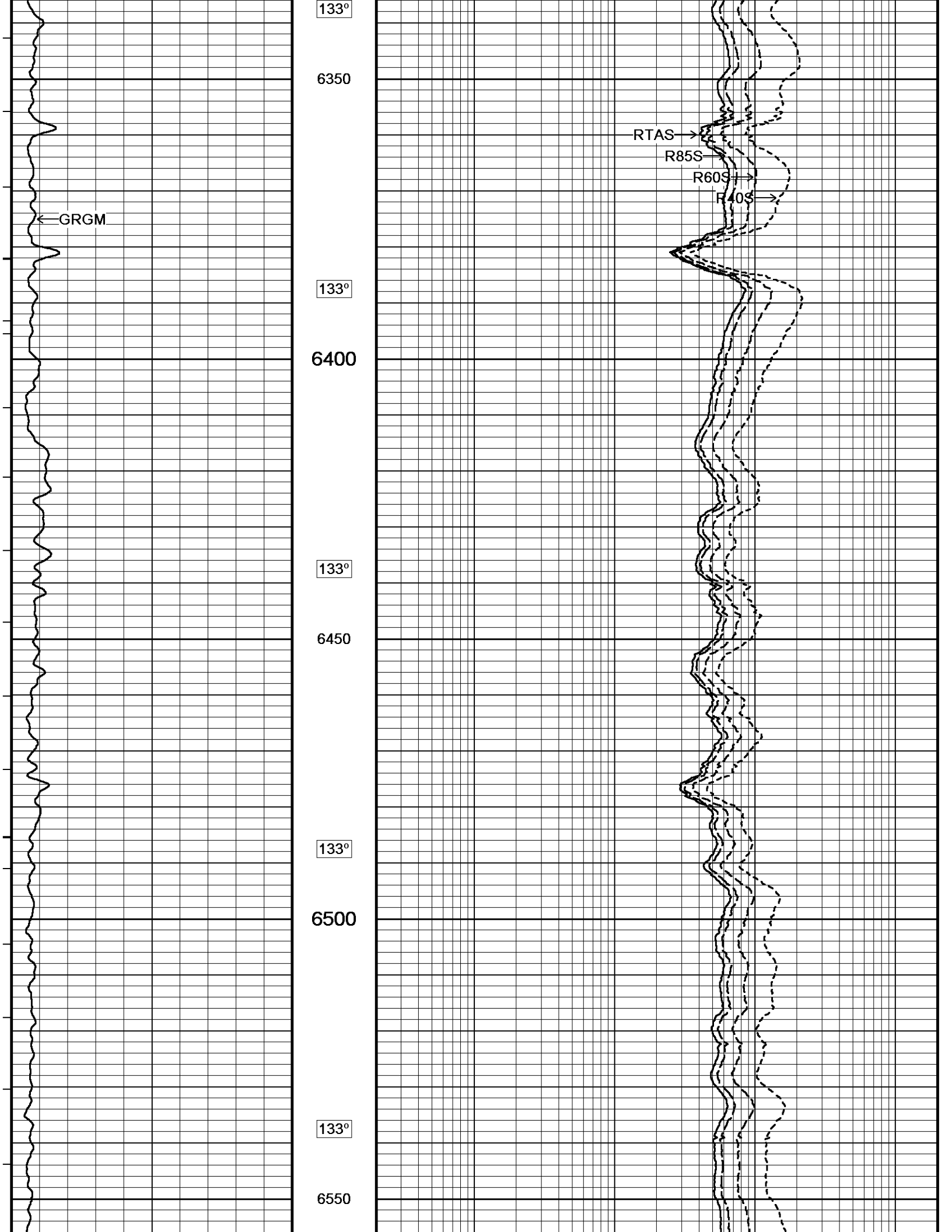
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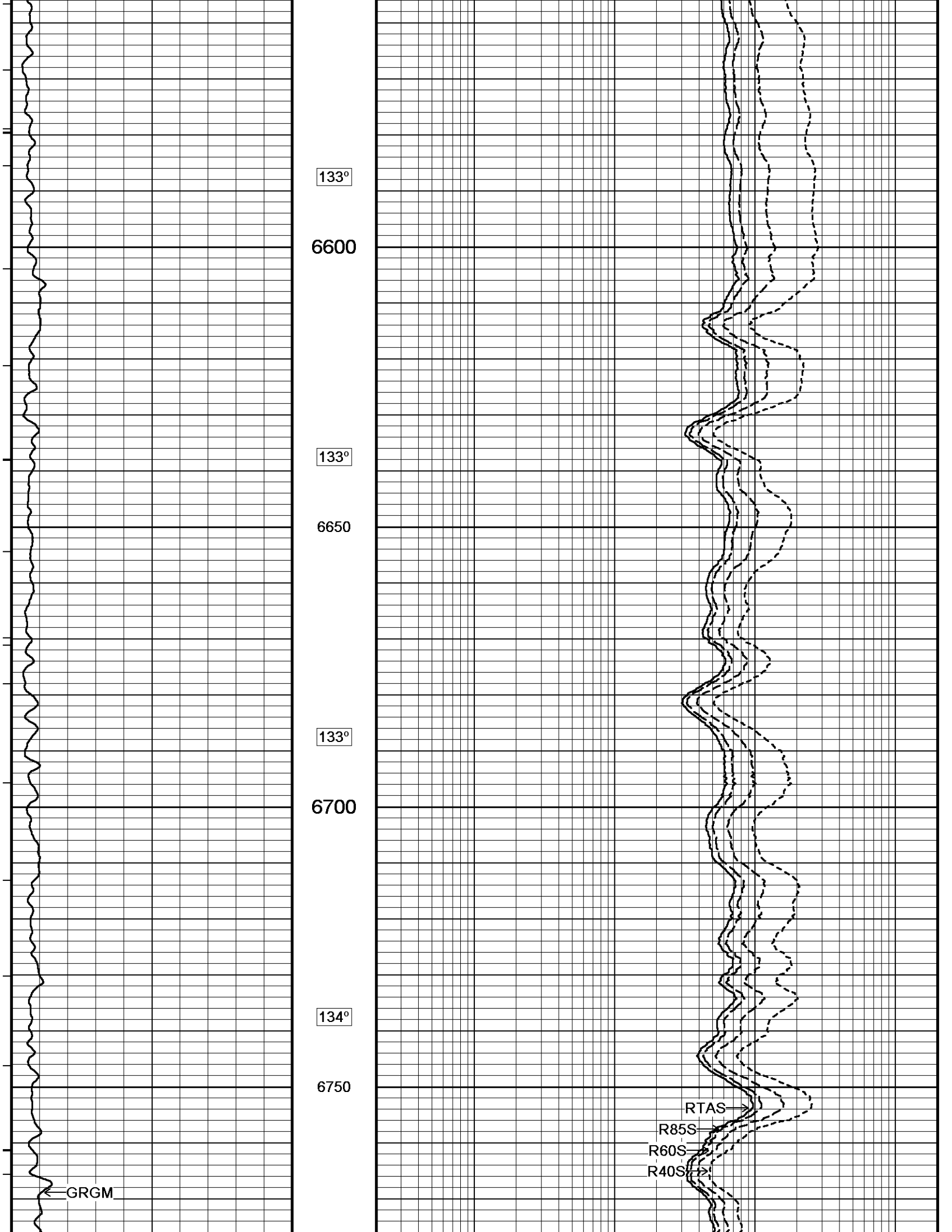
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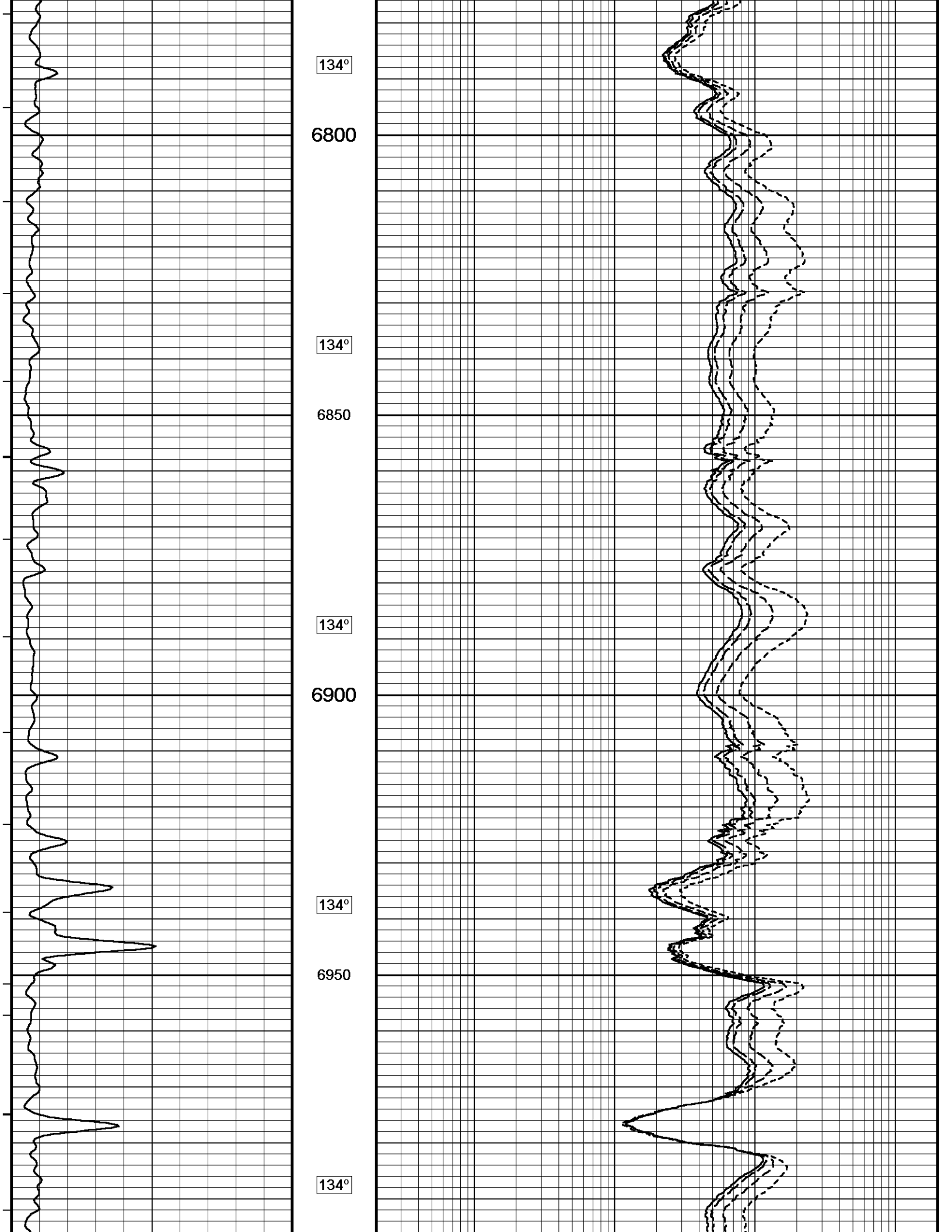
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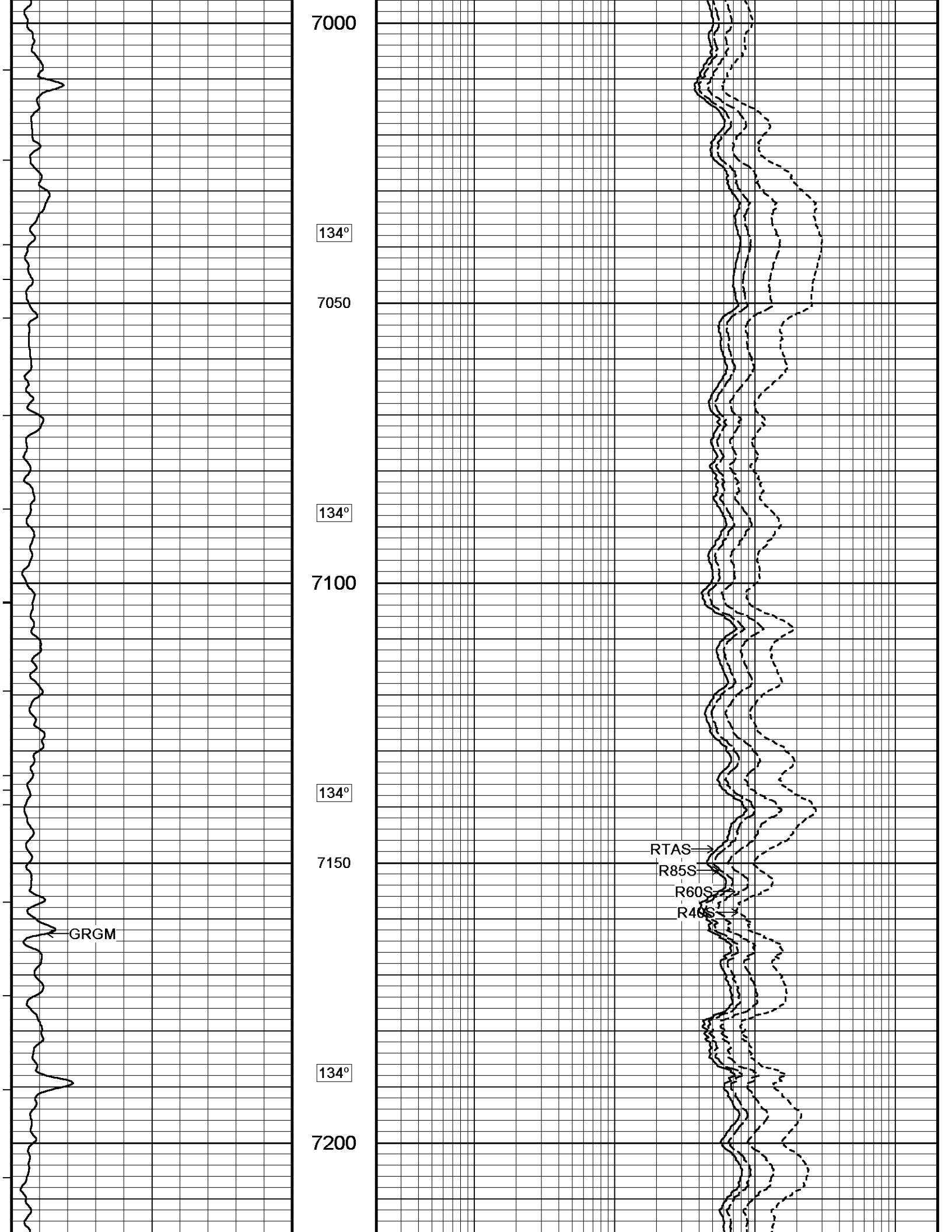
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R85S
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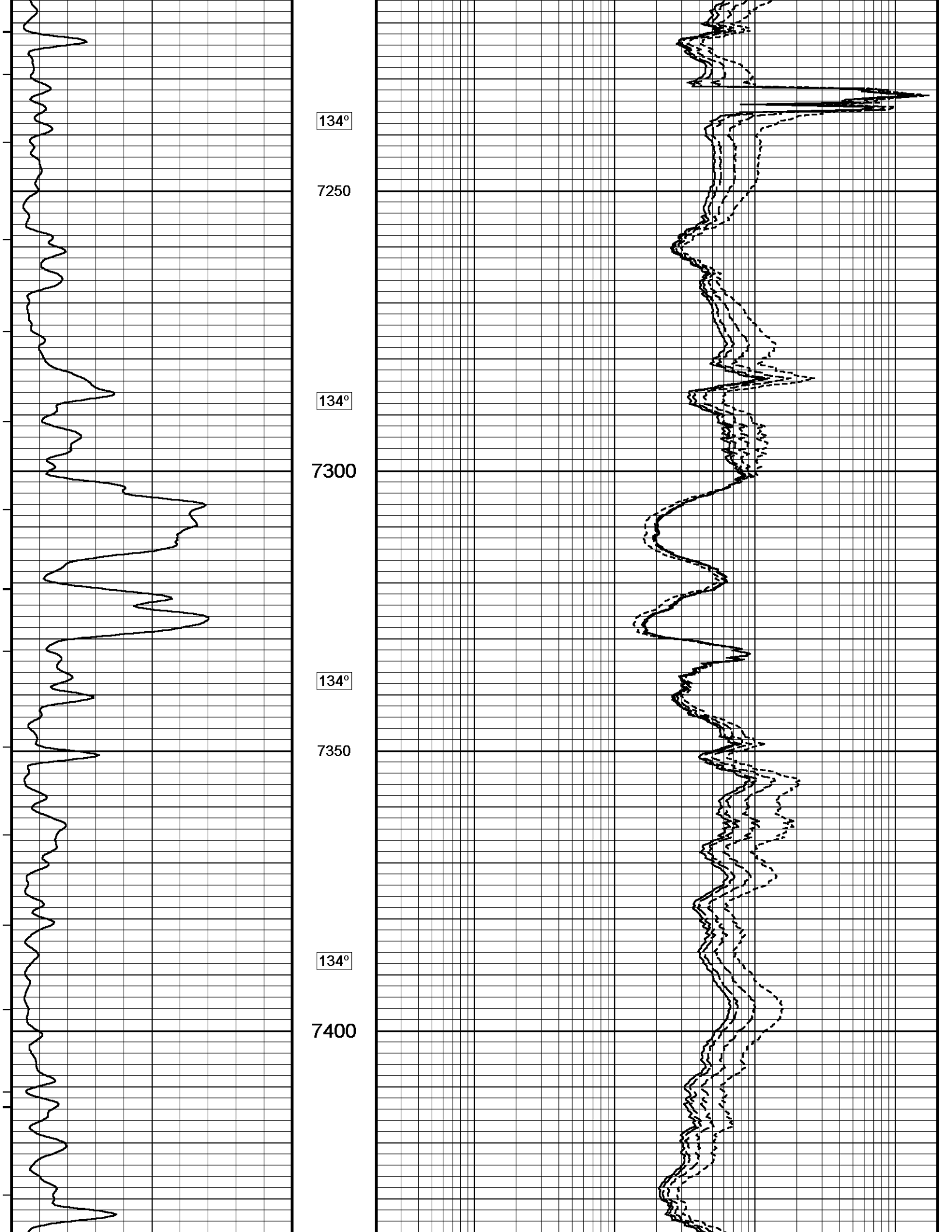
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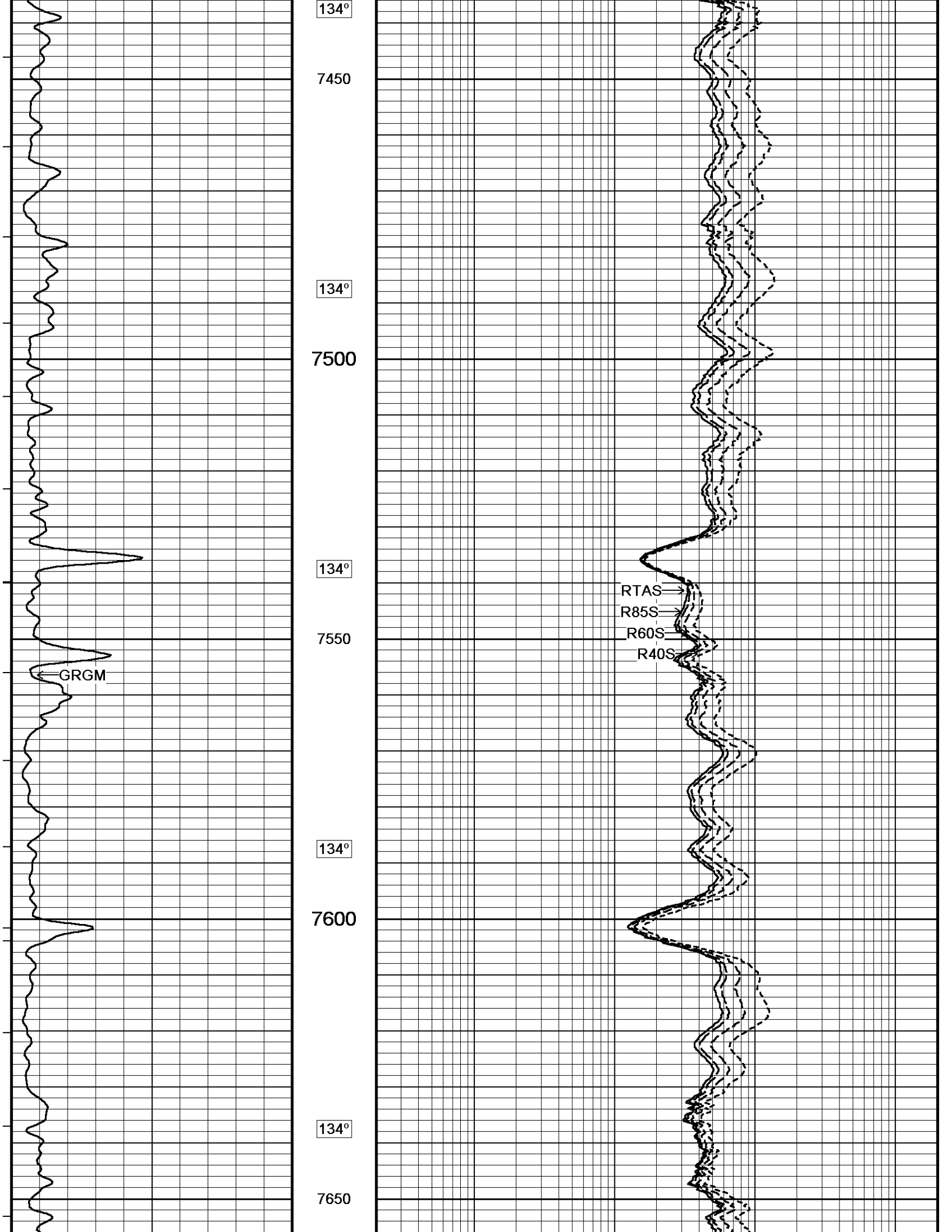
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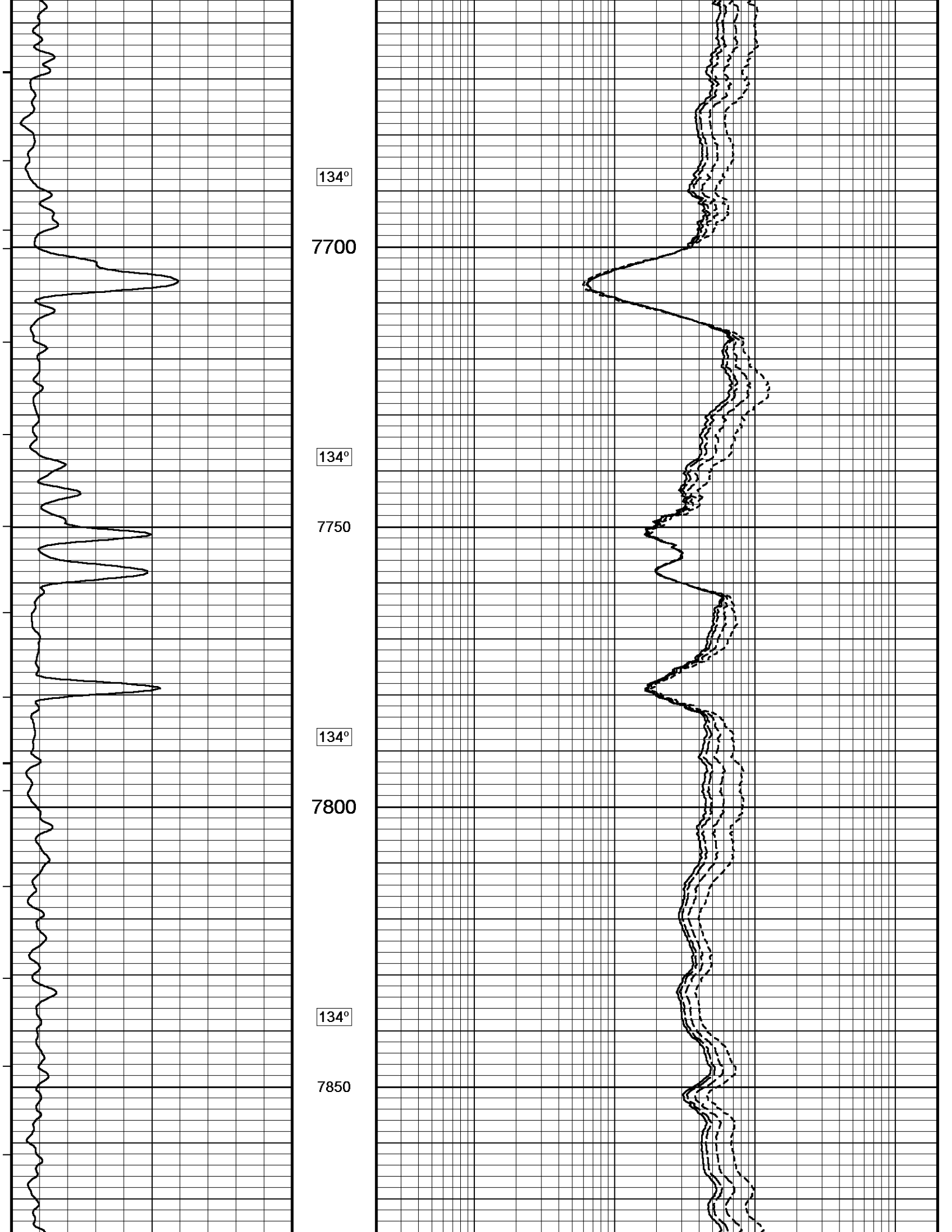
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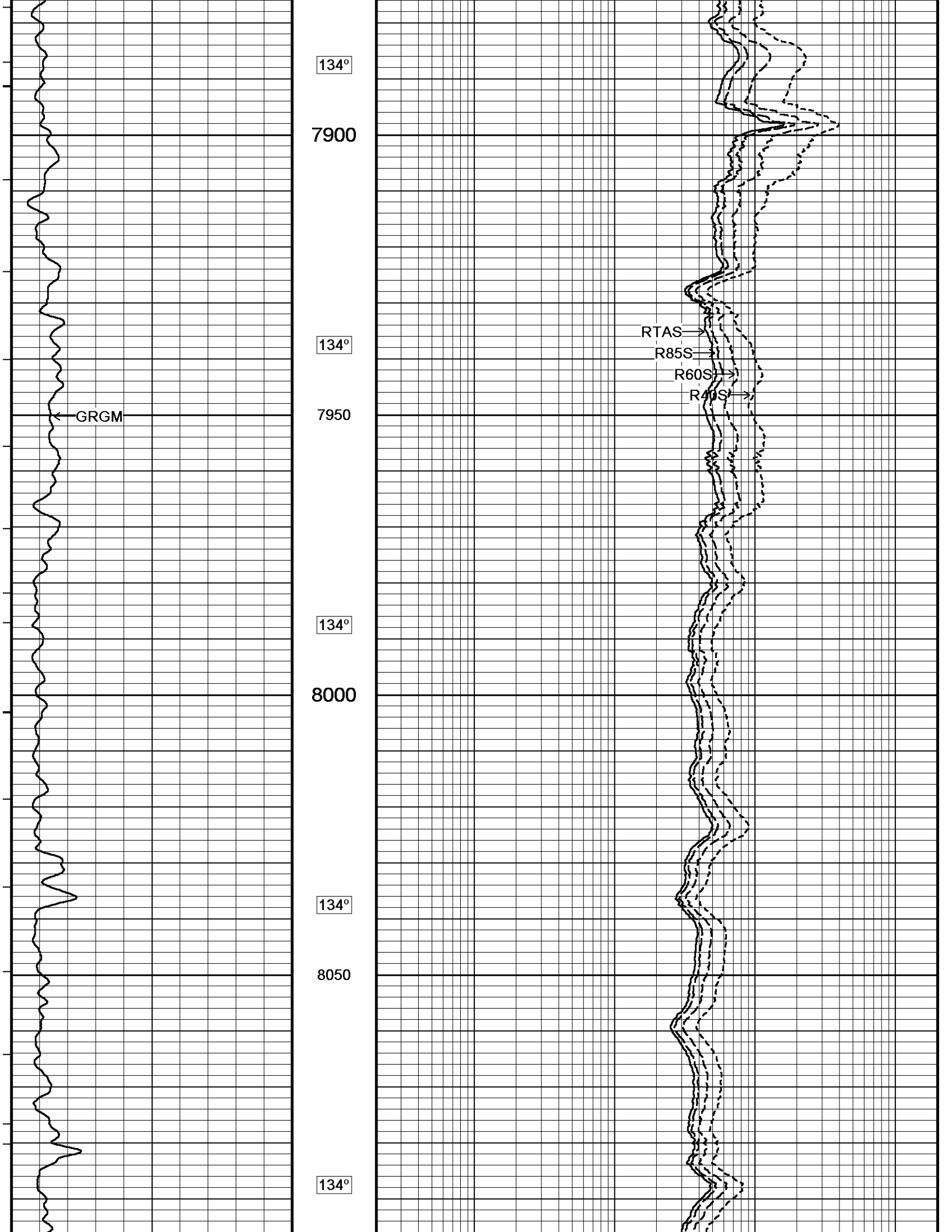
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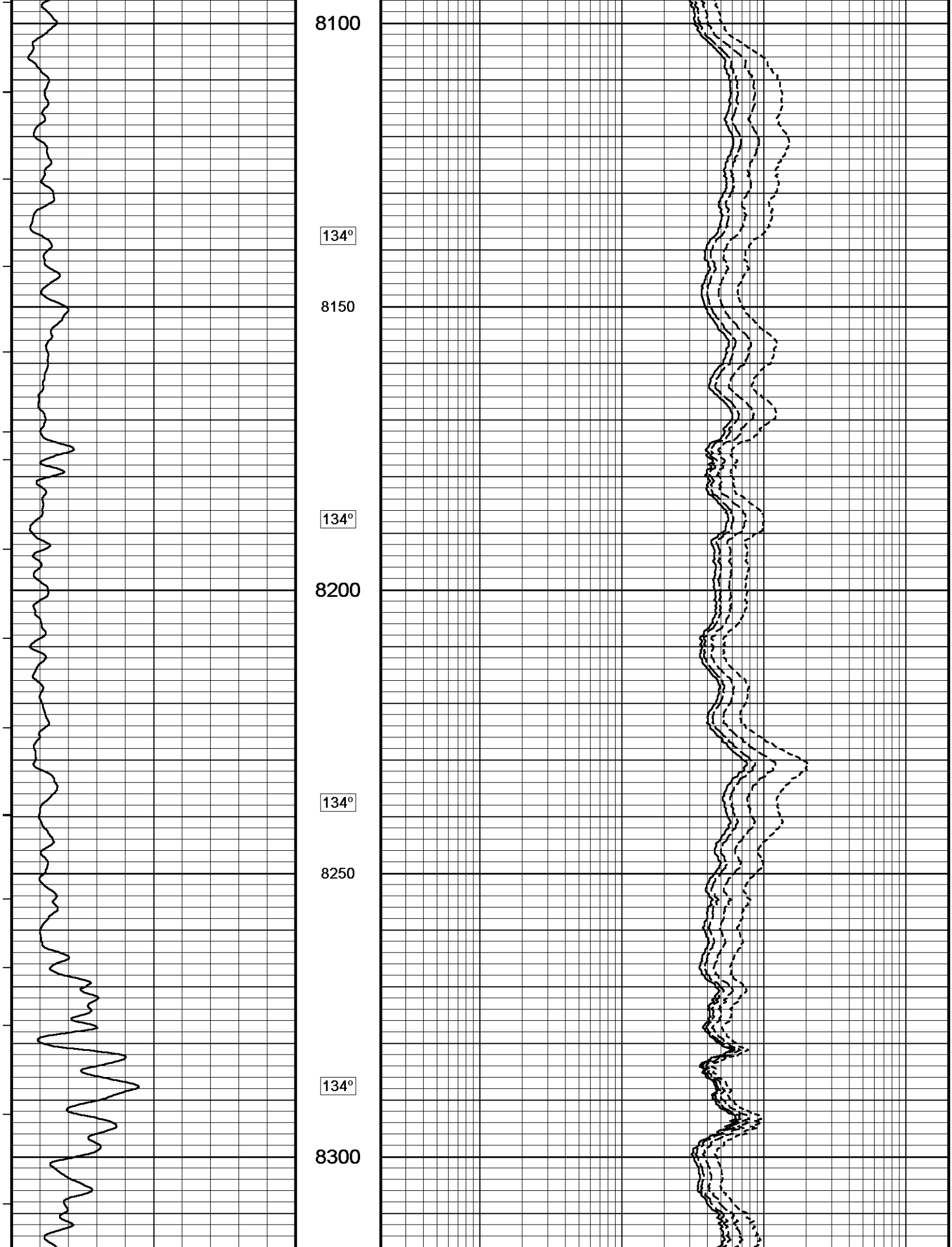
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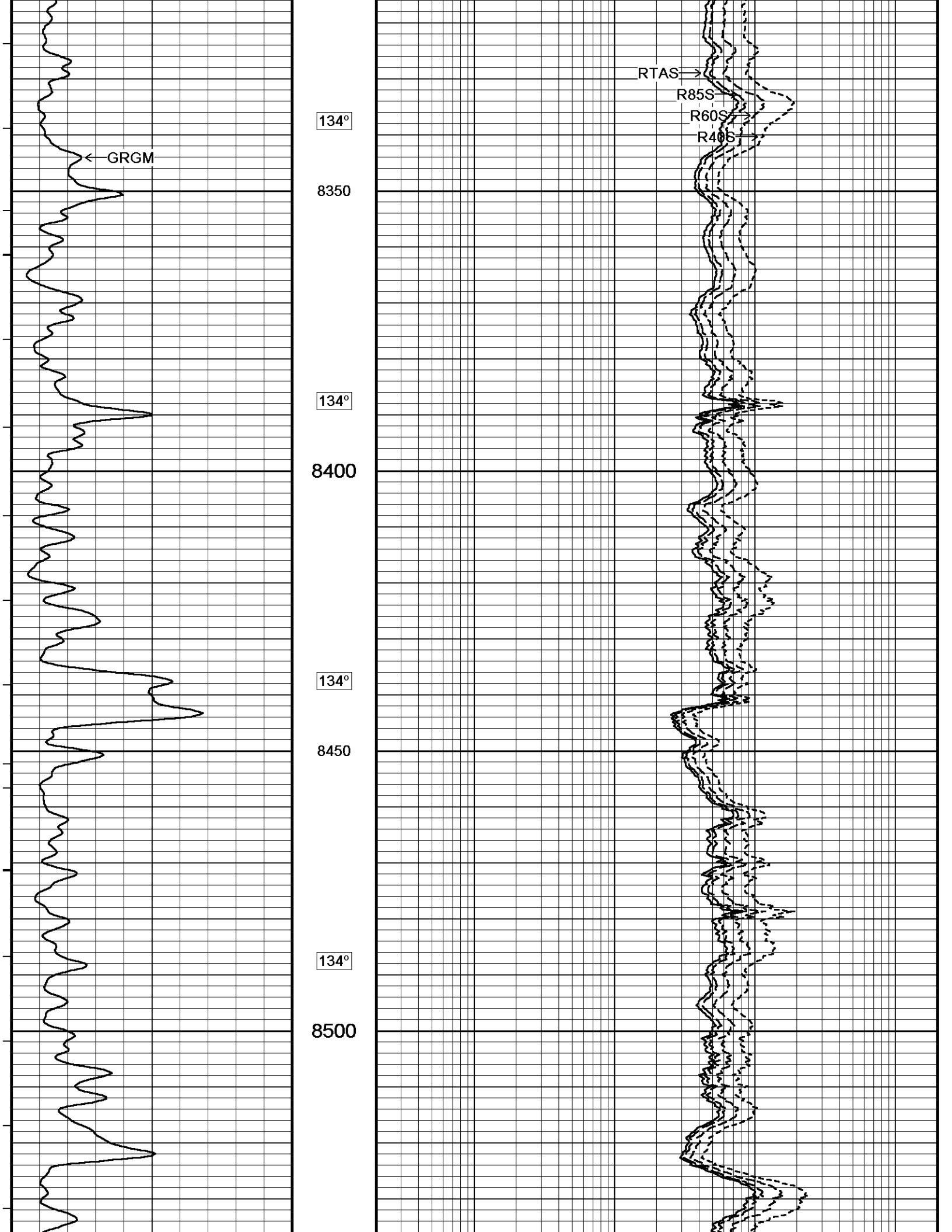
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RTAS
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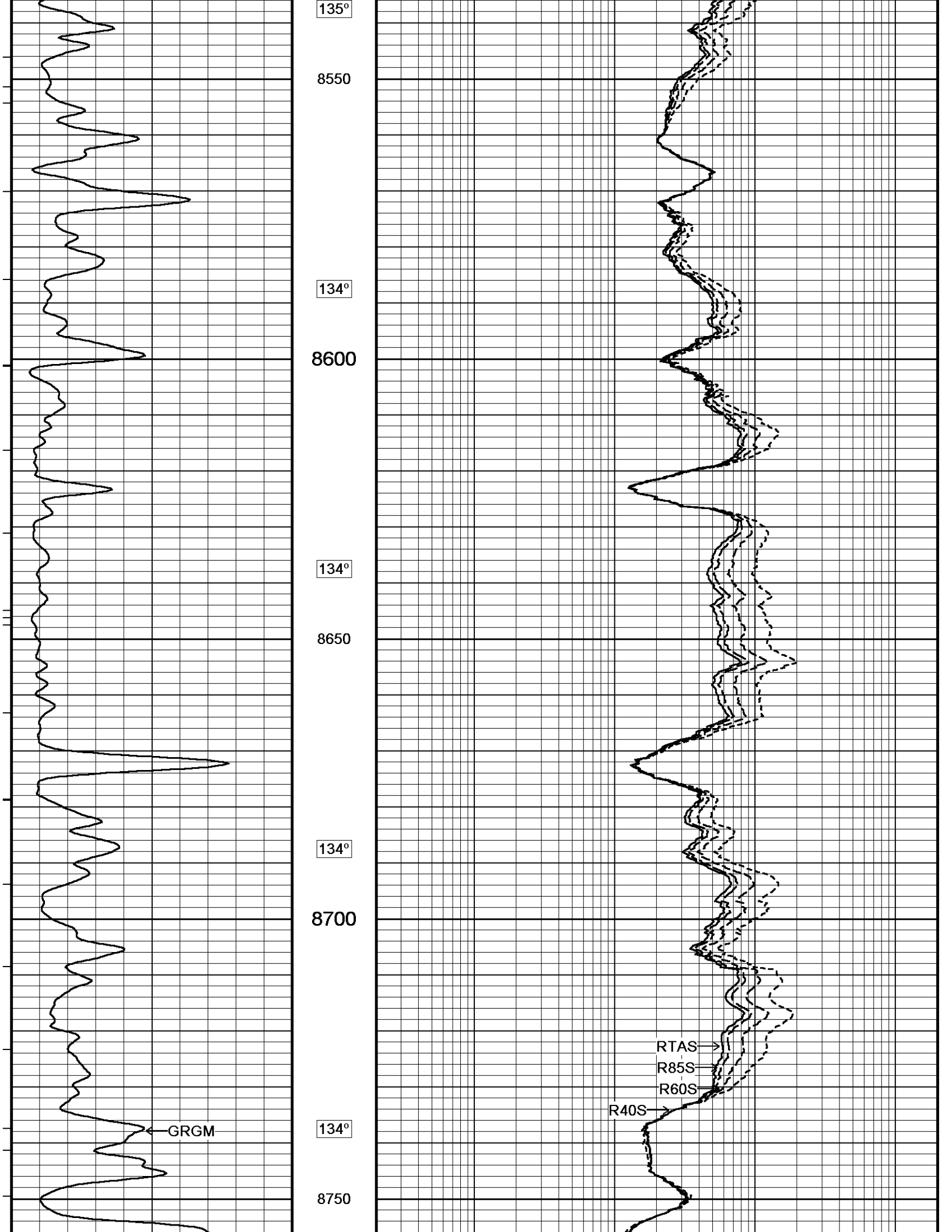
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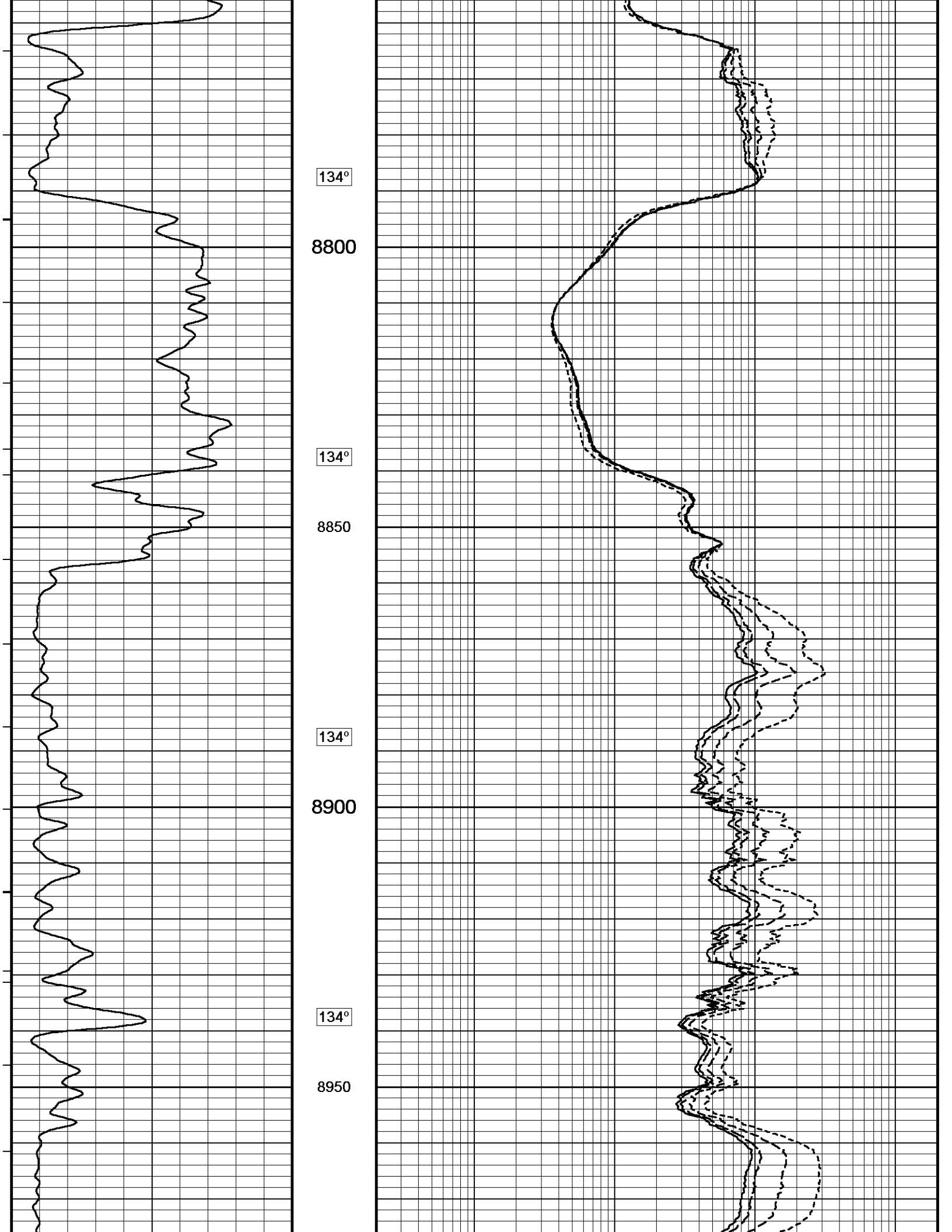
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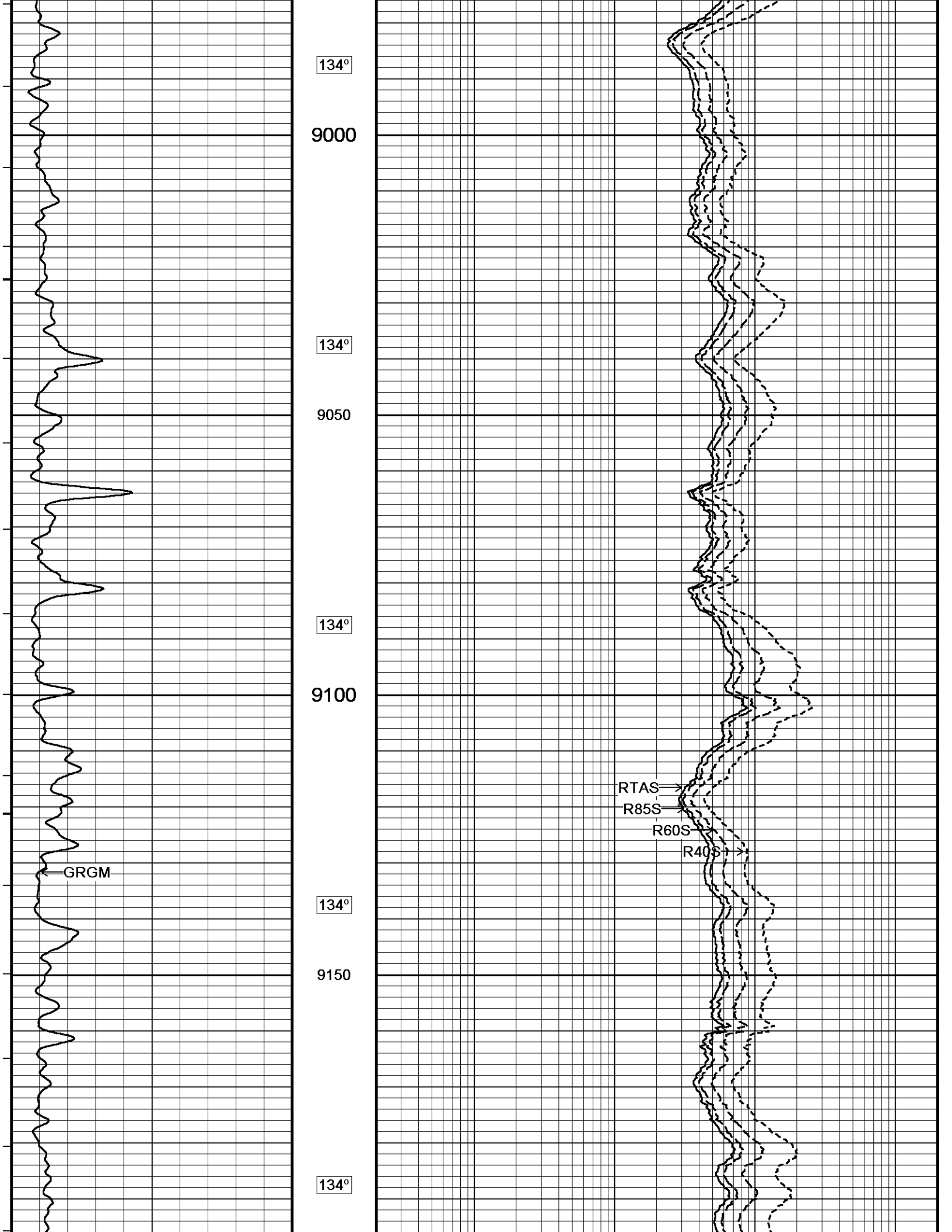
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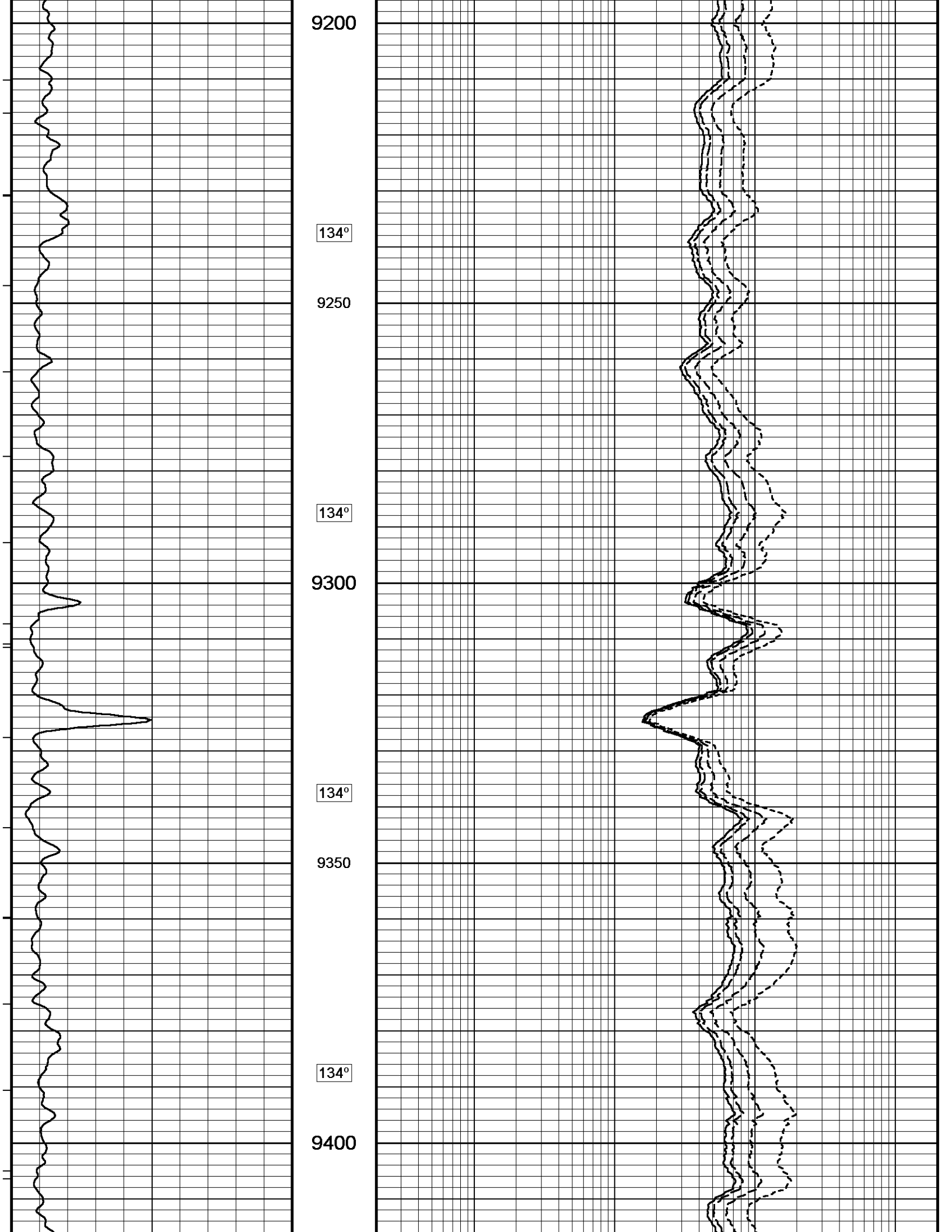
134°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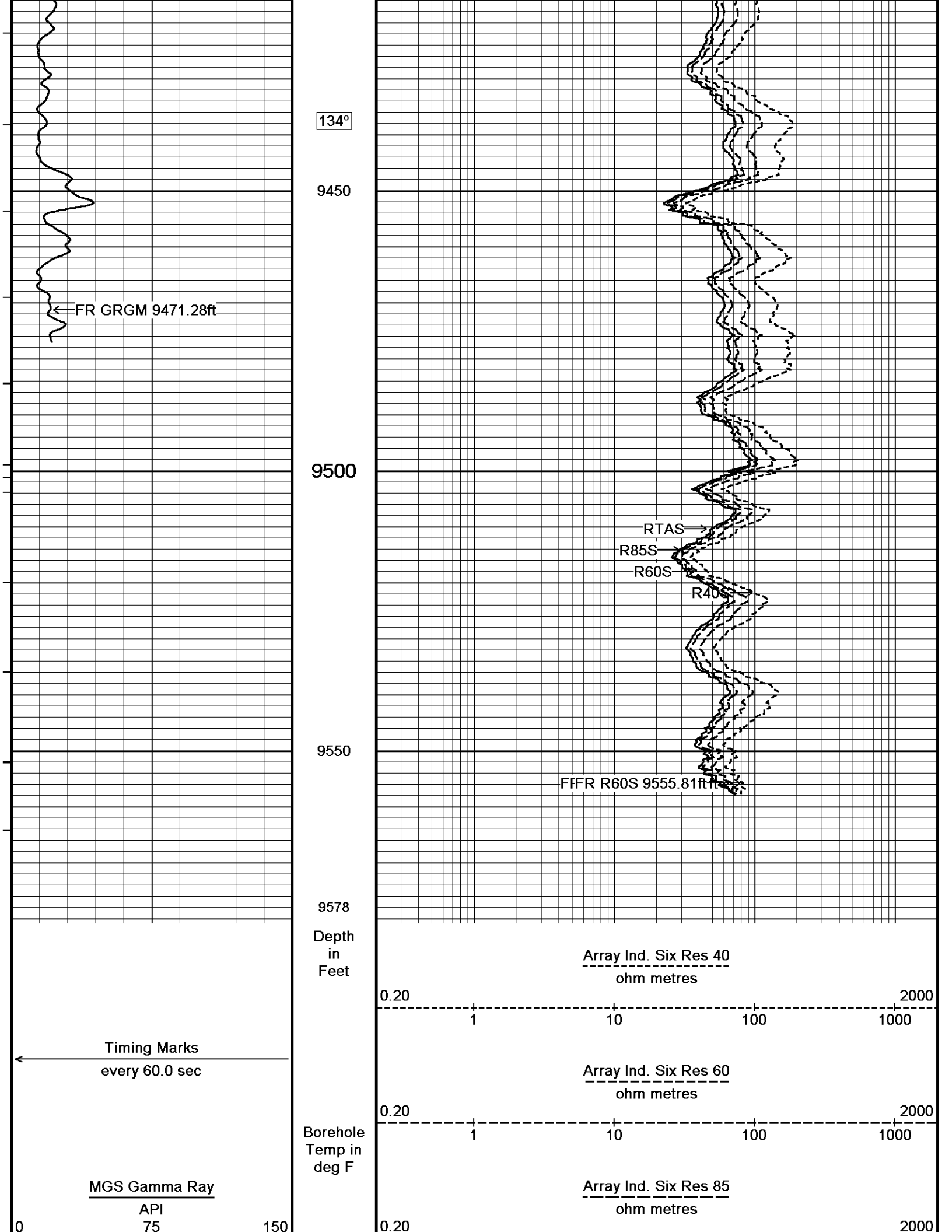
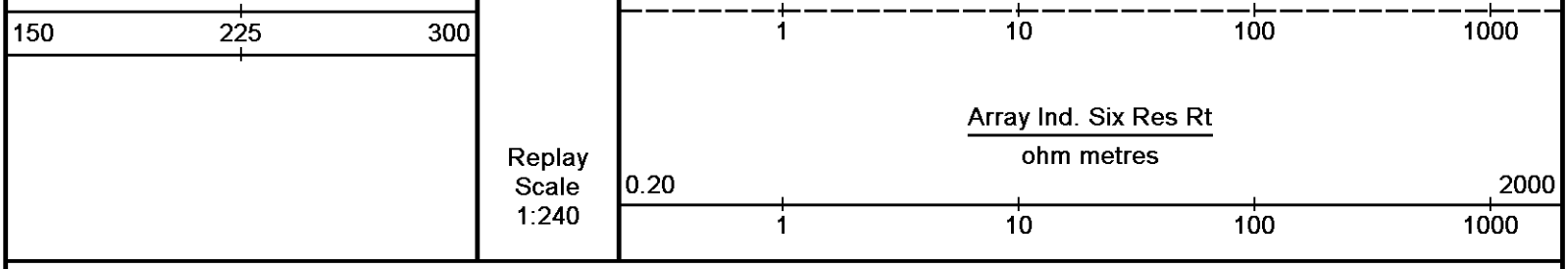

134°
9450
9500
9550
9578
FR GRGM 9471.28ft
RTAS
R85S
R60S
R40S
FFR R60S 9555.81ftft
Depth
in
Feet
Array Ind. Six Res 40
ohm metres
0.20
1
10
100
1000
2000
Timing Marks
every 60.0 sec
Array Ind. Six Res 60
ohm metres
0.20
1
10
100
1000
2000
Borehole
Temp in
deg F
MGS Gamma Ray
API
0
75
150
Array Ind. Six Res 85
ohm metres
0.20
2000



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Filename: C:\Program Files\Weatherford\WLS 13.02\Data\SDRGE Kelly Danielle 311...\33046RTAP.dta — Recorded on 07-JUL-2012 00:32
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5 INCH MAIN LOG

BEFORE SURVEY CALIBRATION

C:\Program Files\Weatherford\WLS 13.02\Data\SDRGE Kelly Danielle 3119 1-23H\33046RTAP.dta

General Constants All 000

Last Edited on 07-JUL-2012,01:10

General Parameters		
Mud Resistivity	0.900	ohm-metres
Mud Resistivity Temperature	90.000	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. Six Res Rt	
RWA Constant A	0.610	
RWA Constant M	2.150	

Down-hole Tension Calibration SMS 0

Field Calibration on 07-FEB-2006 14:19

Reading No	Measured	0
1	16292.42	0.00
2	17072.79	420.00

Strain Gauge Constants SER-B.A 150

Last Edited on 25-MAY-2012,13:22

Atmospheric Pressure	14.70	psi
Serial Number	0	
Calibration Date	000000000000	
Base Check Date		
Dead Weight Serial Number	0	
Dead Weight Gravitational Correction	1.0	

Temperature	75.0		150.0		250.0		350.0	degrees F
Pressure psia	Inc.	Dec.	Inc.	Dec.	Inc.	Dec.	Inc.	Dec.
0.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2000.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
4000.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
6000.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
8000.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
10000.0	0.000		0.000		0.000		0.000	

Strain Gauge Constants MMS-E.B 166

Last Edited on 05-JUL-2012,15:52

Atmospheric Pressure	14.70	psi
Serial Number	0	
Calibration Date	000000000000	
Base Check Date		
Dead Weight Serial Number	0	
Dead Weight Gravitational Correction	1.0	

Temperature	75.0		150.0		250.0		350.0	degrees F
Pressure psia	Inc.	Dec.	Inc.	Dec.	Inc.	Dec.	Inc.	Dec.
0.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2000.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
4000.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
6000.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
8000.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
10000.0	0.000		0.000		0.000		0.000	

MMS Parameters MMS-E.B 166

Last Edited on 05-JUL-2012 18:16

Logging Parameters

Firmware Version	2v40	
Caliper Open On	MAI	
Caliper Open Delay	0.0	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	8.0	

Release Parameters

Pulse Duration Base Level	10.0	seconds
Pulse Duration Transition Time	15.0	seconds
Pulse Duration Status Pulse From	20.0	seconds
Pulse Duration Caliper Close From	60.0	seconds
Pulse Duration Caliper Open From	65.0	seconds
Pulse Duration Release Pulse From	120.0	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	35.0	seconds
Caliper Close To	0.0	seconds
Caliper Open To	80.0	seconds

Configuration

SER,MMS,MGS,MDN,MPD,MPD,MIM,MIE,MAI

Gamma Calibration MGS-C.J 133

Field Calibration on 05-JUL-2012 15:00

	Measured	Calibrated (API)
Background	41	28
Calibrator (Gross)	1055	724
Calibrator (Net)	1014	696

Gamma Constants MGS-C.J 133

Last Edited on 06-JUL-2012,12:06

Gamma Calibrator Number	036	
Mud Density	1.02	gm/cc
Caliper Source for Processing	Density Caliper	
Tool Position	Eccentred	
Concentration of KCl	0.00	kppm

High Resolution Temperature Constants MGS-C.J 133

Last Edited on

Pre-filter Length	11

Neutron Calibration MDN-B.J 388

Base Calibration on 29-JUN-2012,14:59
Field Check on 05-JUL-2012 14:46

Base Calibration

	Measured		Calibrated (cps)	
	Near	Far	Near	Far
	3277	100	3714	110
Ratio	32.858		33.764	

Field Calibrator at Base

	Calibrated (cps)	
	2207	3289
Ratio	0.671	

Field Check

	Calibrated (cps)	
	2231	3352
Ratio	0.666	

Neutron Constants MDN-B.J 388

Last Edited on 05-JUL-2012,14:40

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	Constant Value	
Temperature	68.00	degrees F
Mud Salinity	0.00	kppm
Salinity Correction	Not Applied	
Formation Fluid Salinity Source	Constant Value	
Formation Fluid Salinity	0.00	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 06-JUL-2012,12:12

Sonde Configuration	Imager Mode	degrees
Arm-Pad Kit	Normal Pads (12.25 in)	
Centre Pad 1 Rotational Offset	0.00	
Image/Borehole Ovality Reference	Azimuth of Pad 1	degrees
Non Active Buttons	Omit	feet
Search Angle	0.00	feet
Correlation Interval	3.28	mAmp
Correlation Step	1.64	mAmp
Current Offset	0.0000	
Squasher Start	N/A	
Image Processing	Enabled	

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 Pads 1-5 Caliper(in)	Measured Pads 3-7 Caliper(in)	Actual Caliper(in)
6.32	6.07	6.00

Measured Pad 2 Caliper(in)	Measured Pad 4 Caliper(in)	Measured Pad 6 Caliper(in)	Measured Pad 8 Caliper(in)	Actual 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 06-JUL-2012,12:12

Magnetic Declination	5.41	degrees	East

Induction Calibration MAI-B.J 390

Base Calibration on 16-AUG-2010 14:24
Field Check on 05-JUL-2012 14:31

Base Calibration

Test Loop Calibration Channel	Measured Low	Measured High	Calibrated (mmho/m) Low	Calibrated (mmho/m) High
1	16.8	458.6	9.3	966.2
2	6.3	377.7	7.6	821.4
3	3.8	258.6	5.2	566.0
4	1.9	132.3	2.6	279.2

4	1.9	132.3	2.6	279.2

Array Temperature 77.9 Deg F

Channel	Base Check (mmho/m)		Field Check (mmho/m)	
	Low	High	Low	High
1	0.0	0.0	15.4	3954.5
2	0.0	0.0	30.8	3557.2
3	0.0	0.0	28.5	3056.0
4	0.0	0.0	20.0	2084.2
Deep	0.0	0.0	17.5	2002.6
Medium	0.0	0.0	41.0	4005.1
Shallow	0.0	0.0	46.0	5251.5
Array Temperature		0.0		90.7 Deg F

Induction Constants MAI-B.J 390

Last Edited on 07-JUL-2012,01:10

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-B.J 390

Field Calibration on 07-NOV-2011 02:31

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

High Resolution Temperature Constants MAI-B.J 390

Last Edited on

Pre-filter Length	11

Photo Density Calibration MPD-C.J 434

Base Calibration on 29-JUN-2012 10:58
Field Check on 05-JUL-2012 14:40

Density Calibration

Base Calibration	Measured		Calibrated (sdu)	
	Near	Far	Near	Far
Reference 1	52940	25712	59869	31110
Reference 2	21852	2601	24557	2522

Field Check at Base

1309.1	1448.8

Field Check

1303.1	1448.2

PE Calibration

Base Calibration	WS	Measured WH	Ratio	Calibrated Ratio
Background	237	1166		
Reference 1	21674	52729	0.416	0.369
Reference 2	6063	21699	0.284	0.271

Field Check at Base

237.1	1166.2

Field Check

236.8	1163.4

Density Constants MPD-C.J 434

Last Edited on 06-JUL-2012,12:06

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	1.02	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	

Caliper Calibration MPD-C.J 434

Base Calibration on 29-JUN-2012 11:22
Field Calibration on 05-JUL-2012 14:35

Base Calibration

Reading No	Measured	Calibrator Size (in)
1	16576	4.02
2	26320	6.00
3	36352	8.03
4	46544	10.02
5	57344	12.01
6	N/A	N/A

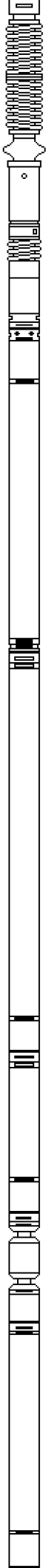
Field Calibration

Measured Caliper (in)	Actual Caliper (in)
5.94	6.00

DOWNHOLE EQUIPMENT

C:\Program Files\Weatherford\WLS 13.02\Data\SDRGE Kelly Danielle 3119 1-23H\33046RTAP.dta

Shuttle Mechanical Release (SMR A)
SMR-A 166 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

MBS-G.A 200v Compact Battery Sub
MBS-G.A 113 LG: 16.66 ft WT: 132.3 lb OD: 2.24 in

Compact Memory Sub E.B
MMS-E.B 166 LG: 5.20 ft WT: 37.5 lb OD: 2.24 in

SKJ-E.B Compact Knuckle Joint
SKJ-E.B 458 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

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

Compact Tool Isolator sub.
MTI-B.A 63 LG: 1.54 ft WT: 13.2 lb OD: 2.24 in

Compact Short Gamma
MGS-C.J 133 LG: 3.41 ft WT: 24.3 lb OD: 2.24 in

87.87 ft GRGM - MGS Gamma Ray

85.89 ft GSXT - MGS External Temperature

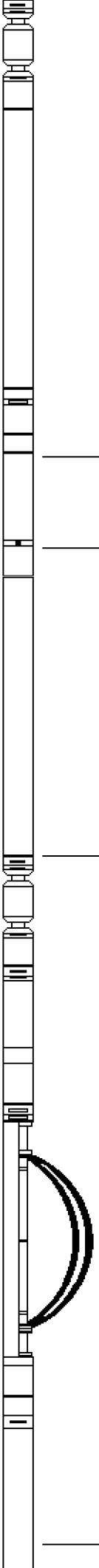
Compact Collar Locator
MCL-B.J 69 LG: 3.17 ft WT: 26.5 lb OD: 2.24 in

83.87 ft GCSL - MCL C. Collar Locator

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 431 LG: 2.30 ft WT: 22.0 lb OD: 2.24 in

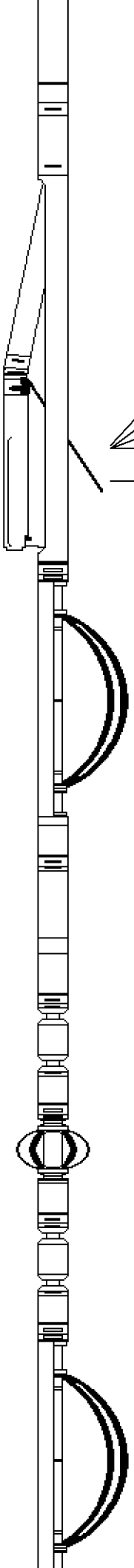
MIS-D.B Compact Inline Bowspring sub
MIS-D.B 606 LG: 5.70 ft WT: 33.1 lb OD: 2.24 in



Compact Neutron
MDN-B.J 388 LG: 5.04 ft WT: 50.7 lb OD: 2.24 in

69.01 ft NPRL - Limestone Neutron Por.

Compact Density/Caliper
MPD-C.J 434 LG: 9.59 ft WT: 90.4 lb OD: 2.24 in



61.77 ft CLDC - Density Caliper
59.84 ft DCOR - Density Correction
59.84 ft DEN - Compensated Density
59.84 ft DPRL - Limestone Density Por.
59.77 ft PDPE - PE

MIS-A.A Compact Inline Bowspring sub
MIS-A.A 275 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 474 LG: 2.17 ft WT: 24.3 lb OD: 2.24 in

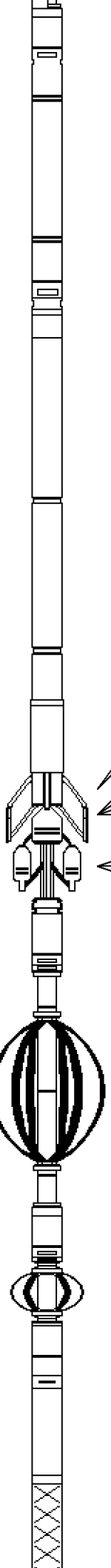
MIS-E.B Compact Inline Standoff sub
MIS-E.B 578 LG: 2.14 ft WT: 15.4 lb OD: 2.24 in

SKJ-E.B Compact Knuckle Joint
SKJ-E.B 455 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-A.J 233 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

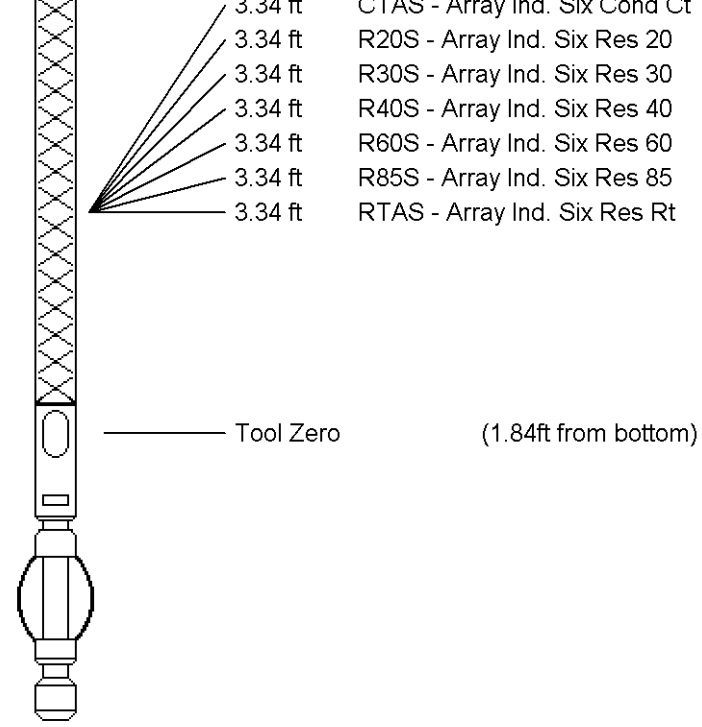


20.89 ft IECX - MIE Caliper X
20.89 ft IECY - MIE Caliper Y
20.37 ft IEC2 - MIE Caliper 2
20.37 ft IEC4 - MIE Caliper 4
20.37 ft IEC6 - MIE Caliper 6
20.37 ft IEC8 - MIE Caliper 8
20.37 ft IAP1 - Azimuth of Reference
20.37 ft IMGR - MMI Image
20.37 ft ITLT - Borehole Tilt

MIS-A.A Compact Inline Bowspring sub
MIS-A.A 62 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 Induction
MAI-B.J 390 LG: 12.52 ft WT: 48.5 lb OD: 2.24 in



Total Length: 147.91 ft Weight: 1036.2 lb All measurements relative to tool zero.

COMPANY	SANDRIDGE ENERGY
WELL	KELLY DANIELLE 3119 1-23H
FIELD	SIX MOONS
PROVINCE/COUNTY	COMANCHE
COUNTRY/STATE	USA / KANSAS

Elevation Kelly Bushing	2153.00	feet	First Reading	9558.00	feet
Elevation Drill Floor	2153.00	feet	Depth Driller	9593.00	feet
Elevation Ground Level	2133.00	feet	Depth Logger	9593.00	feet

Weatherford®

CML IMPULSE SHUTTLE
ARRAY INDUCTION
LOG

Weatherford

CML IMPULSE SHUTTLE
ARRAY INDUCTION
LOG

COMPANY	SANDRIDGE ENERGY
WELL	KELLY DANIELLE 3119 1-23H
FIELD	SIX MOONS
PROVINCE/COUNTY	COMANCHE
COUNTRY/STATE	USA / KANSAS
LOCATION	S2 S2 SW SW 200' FSL & 660' FWL

SEC	TWP	RGE	Other Services
23	31S	19W	MDN/MPD

API Number 15-033-21637
Permit Number CML
Permanent Datum GL Elevation 2133 feet
Log Measured From KB
Drilling Measured From KB

Elevations:	feet
KB	2153.00
DF	2153.00
GL	2133.00

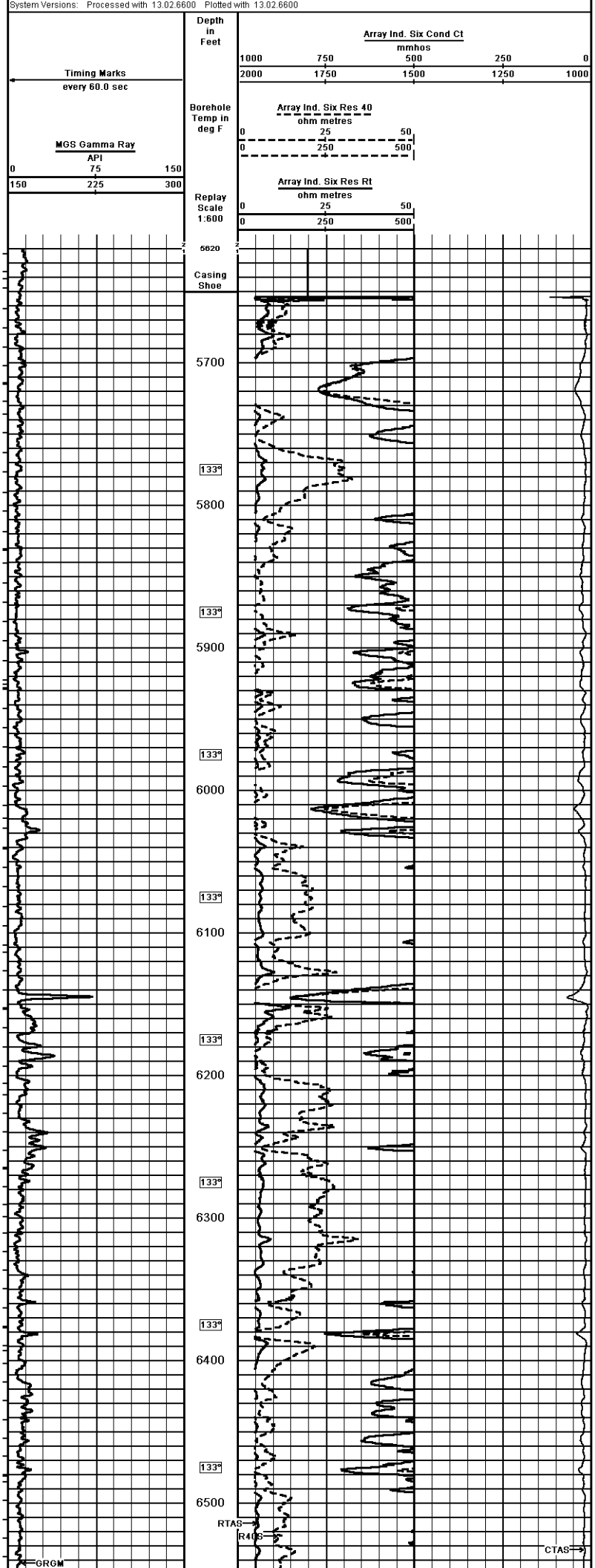
Date	06-JUL-2012		
Run Number	ONE		
Depth Driller	9593.00	feet	
Depth Logger	9593.00	feet	
First Reading	9558.00	feet	
Last Reading	5650.00	feet	
Casing Driller	5663.00	feet	
Casing Logger	5650.00	feet	
Bit Size	6.125	inches	
Hole Fluid Type	WATER		
Density / Viscosity	8.50	lbm/USg	28.00 CP
PH / Fluid Loss	10.00		60.00 ml/30Min
Sample Source	FLOWLINE		
Rm @ Measured Temp	0.90 @ 90.0	ohm-m	
Rmf @ Measured Temp	0.72 @ 90.0	ohm-m	
Rmc @ Measured Temp	1.08 @ 90.0	ohm-m	
Source Rmf / Rmc	CALC		CALC
Rm @ BHT	0.62 @134.0	ohm-m	
Time Since Circulation	1 HOUR		
Max Recorded Temp	134.00	deg F	
Equipment Name	COMPACT		
Equipment / Base	18077	OKC	
Recorded By	GUTHMILLER		
Witnessed By	K.GENTRY		

AFE# DC12083
SO# 3535269

1 INCH MAIN LOG

Depth Based Data - Maximum Sampling Increment 10.0cm
Filename: C:\Program Files\Weatherford\WLS 13.02\Data\SDRGE Kelly Danielle 3119 1-...\33046RTAP.dta

Plotted on 07-JUL-2012 01:57
Recorded on 07-JUL-2012 00:32


System Versions: Processed with 13.02.6600 Plotted with 13.02.6600
Depth in Feet
Array Ind. Six Cond Ct
mmhos
1000 750 500 250 0
2000 1750 1500 1250 1000
Timing Marks
every 60.0 sec
Borehole Temp in deg F
Array Ind. Six Res 40
ohm metres
0 25 50
0 250 500
MGS Gamma Ray
API
0 75 150
150 225 300
Array Ind. Six Res Rt
ohm metres
0 25 50
0 250 500
Replay Scale 1:600
5620
Casing Shoe
5700
133°
5800
133°
5900
133°
6000
133°
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6200
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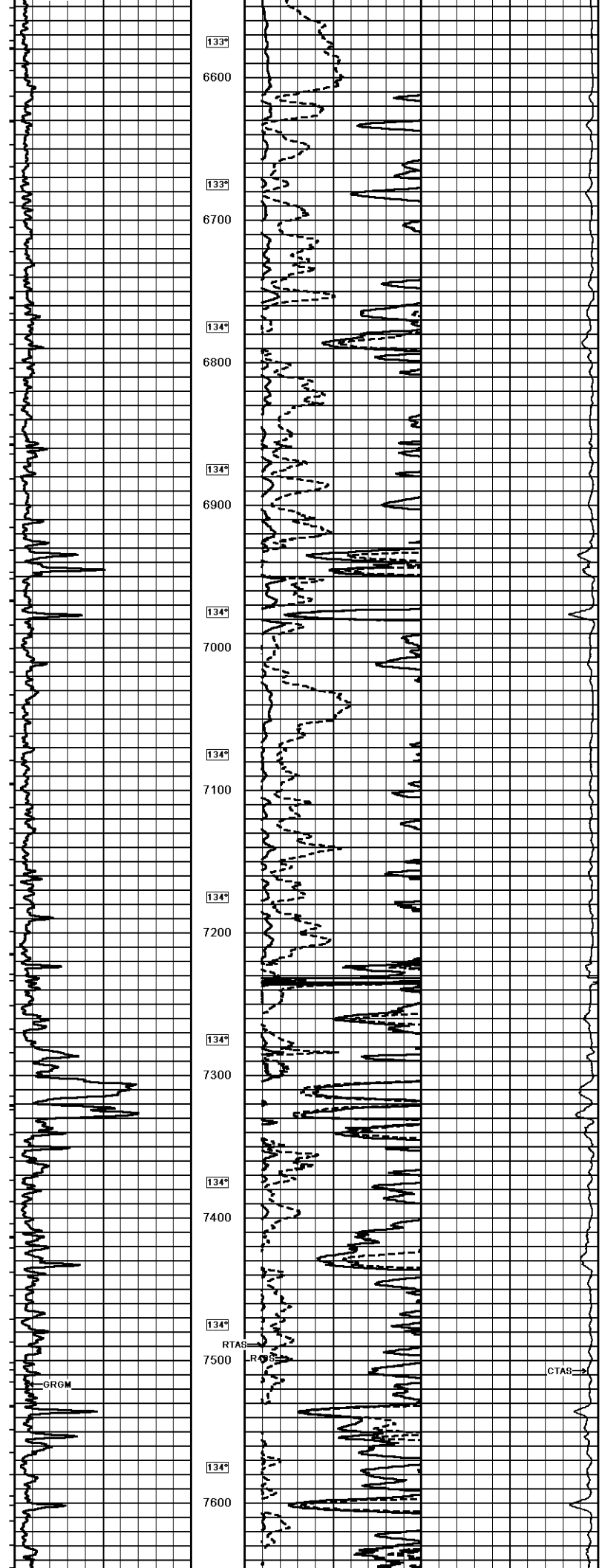
6300
133°
6400
133°
6500
RTAS
R40S
CTAS
GRGM


133°
6600
133°
6700
134°
6800
134°
6900
134°
7000
134°
7100
134°
7200
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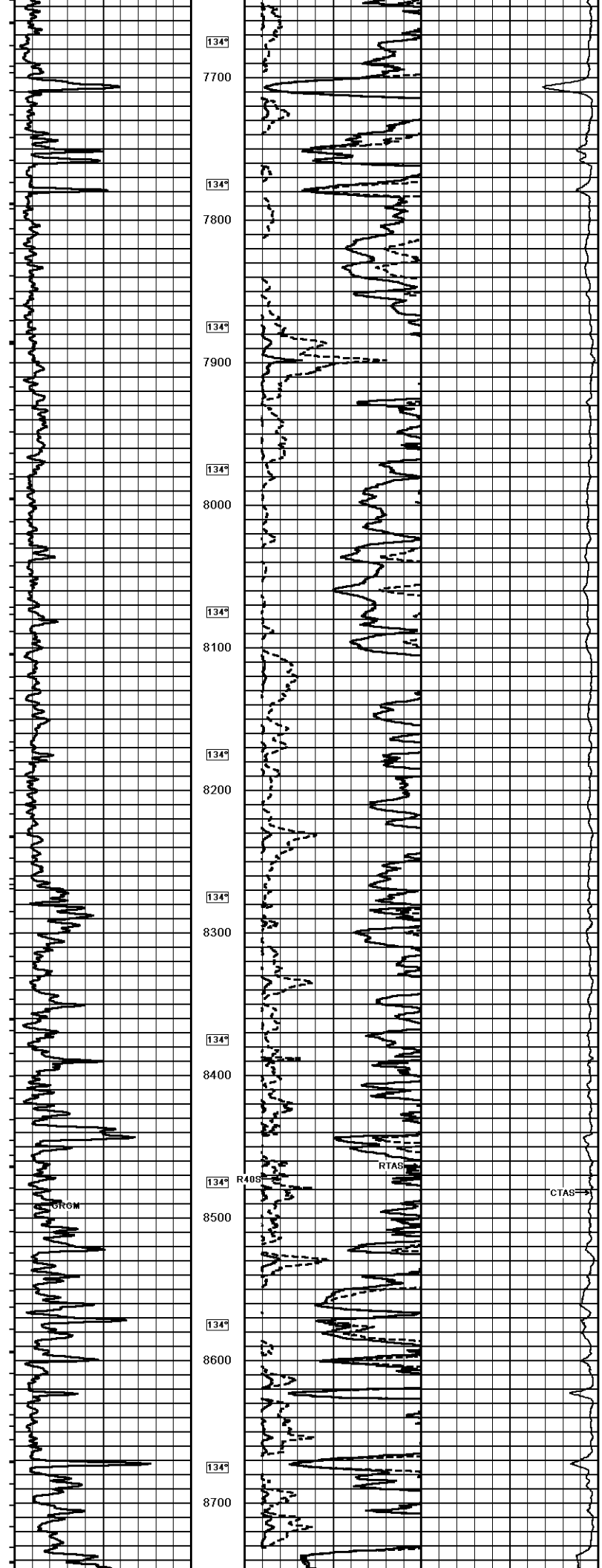
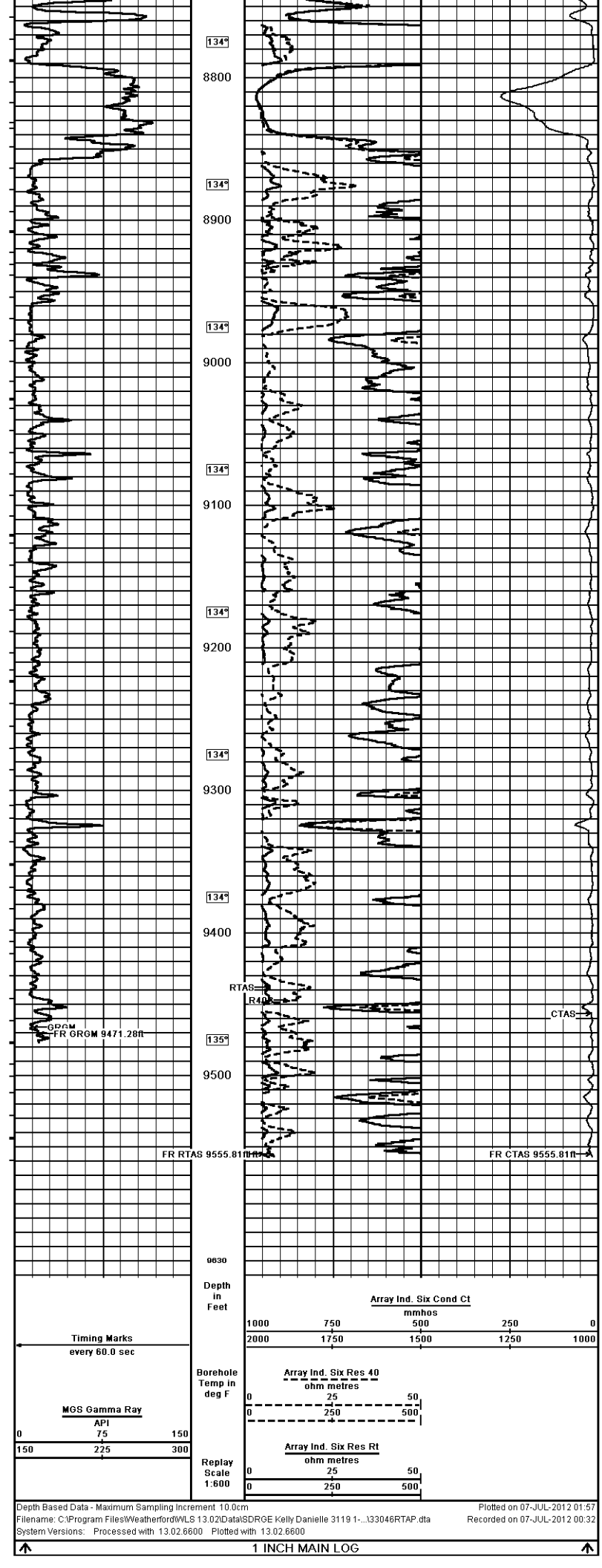
7300
134°
7400
134°
RTAS
RCAS
7500
GRGM
CTAS
134°
7600


134°
7700
134°
7800
134°
7900
134°
8000
134°
8100
134°
8200
134°
8300
134°
8400
134°
R40S
8500
134°
8600
134°
8700
GROM
RTAS
CTAS



Depth Based Data - Maximum Sampling Increment 10.0cm
Plotted on 07-JUL-2012 01:57
Filename: C:\Program Files\Weatherford\WLS 13.02\Data\SDRGE Kelly Danielle 3119 1-...\33046RTAP.dta
Recorded on 07-JUL-2012 00:32
System Versions: Processed with 13.02.6600 Plotted with 13.02.6600

1 INCH MAIN LOG

COMPANY	SANDRIDGE ENERGY
WELL	KELLY DANIELLE 3119 1-23H
FIELD	SIX MOONS
PROVINCE/COUNTY	COMANCHE
COUNTRY/STATE	USA / KANSAS

Elevation Kelly Bushing	2153.00	feet	First Reading	9558.00	feet
Elevation Drill Floor	2153.00	feet	Depth Driller	9593.00	feet
Elevation Ground Level	2133.00	feet	Depth Logger	9593.00	feet

Weatherford

CML IMPULSE SHUTTLE
ARRAY INDUCTION
LOG