



Weatherford

**CML MESSENGER SHUTTLE
ARRAY INDUCTION**

COMPANY				Sandridge Energy			
WELL				Brothers 3119 1-6H			
FIELD				Six Moons			
PROVINCE/COUNTY				Comanche			
COUNTRY/STATE				U.S.A./ Kansas			
LOCATION				375' FNL & 1080' FWL			
SEC	TWP	RGE	Other Services				
7	31S	19W	MDNMPPD				
API Number		15-033-21690					
Permit Number							
Permanent Datum G.L., Elevation 2169 feet				Elevations:			
Log Measured From KB				KB 2188.00			
Drilling Measured From K.B. @ 19 feet				DF 2188.00			
				GL 2169.00			
Date	10-MAR-2013						
Run Number	one						
Service Order	3540321						
Depth Driller	10070.00			feet			
Depth Logger	10070.00			feet			
First Reading	10048.00			feet			
Last Reading	5572.00			feet			
Casing Driller	5572.00			feet			
Casing Logger	5572.00			inches			
Bit Size	6.125						
Hole Fluid Type	WBM			lb/USg			
Density / Viscosity	9.05		lb/USg	34.00		CP	
PH / Fluid Loss	9.50			9.50			
Sample Source	flowline						
Rm @ Measured Temp	0.94 @ 68.0			ohm-m			
Rmf @ Measured Temp	0.75 @ 68.0			ohm-m			
Rmc @ Measured Temp	1.13 @ 68.0			ohm-m			
Source Rmf / Rmc	Calc			Calc			
Rm @ BHT	0.50 @128.0			ohm-m			
Time Since Circulation	1 hour						
Max Recorded Temp	128.00			deg F			
Equipment / Base	18077			OKC			
Recorded By	Steven Tolley						
Witnessed By	Maggie Roden						

BOREHOLE RECORD					Last Edited: 10-MAR-2013 11:16
Bit Size inches		Depth From feet		Depth To feet	
8.750		0.00		5572.00	
6.125		5572.00		10070.00	
CASING RECORD					
Type	Size inches	Depth From feet	Shoe Depth feet	Weight pounds/ft	
inter	7.000	0.00	5572.00	23.00	

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,, 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: 9970

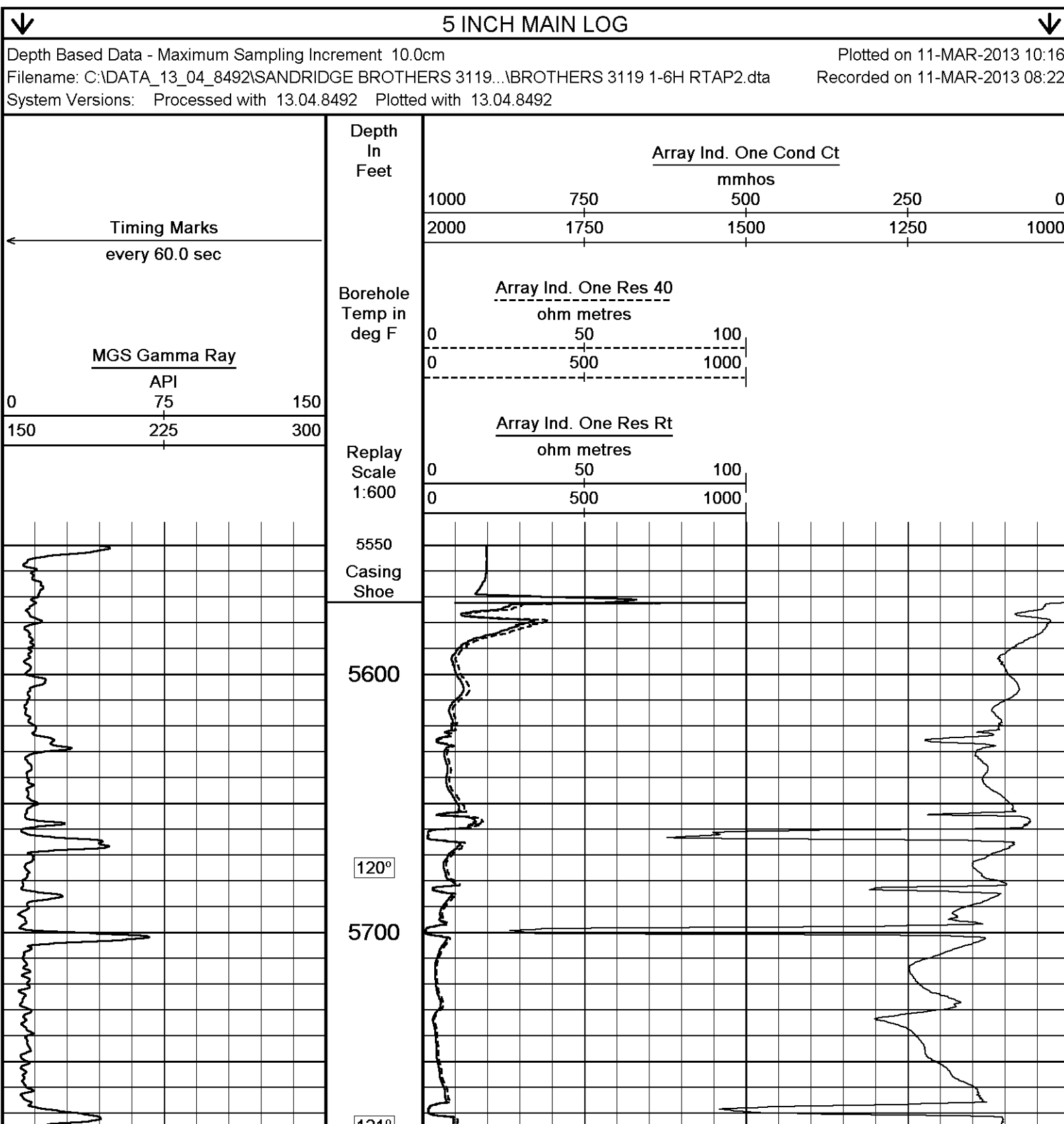
DRILL PIPE DEPTH AFTER DEPLOYMENT: 5570
LOGGING TOOL DEPTH AFTER DEPLOYMENT: 10050

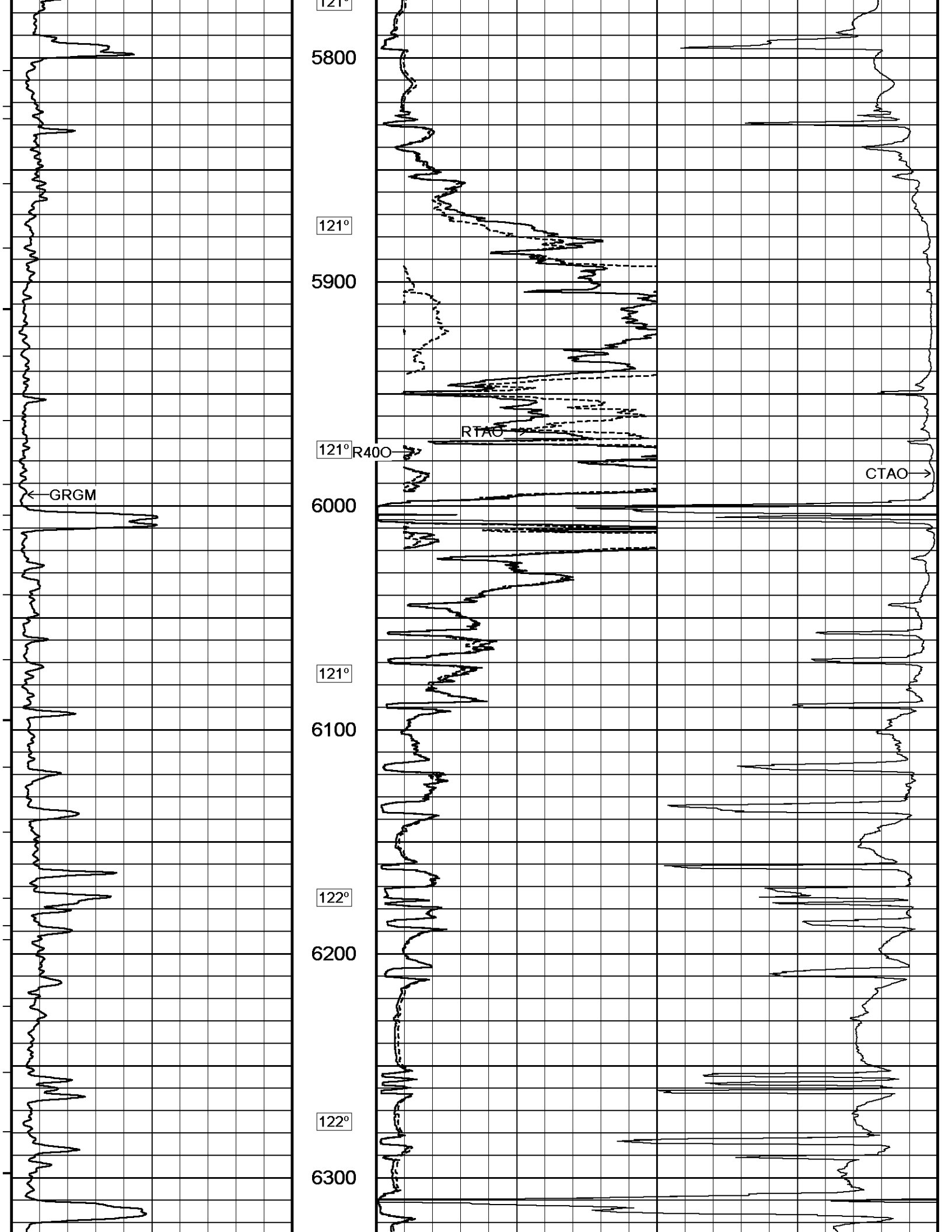
OPERATORS: CRAIG ALEXANDER AND BRIAN BALINAGER

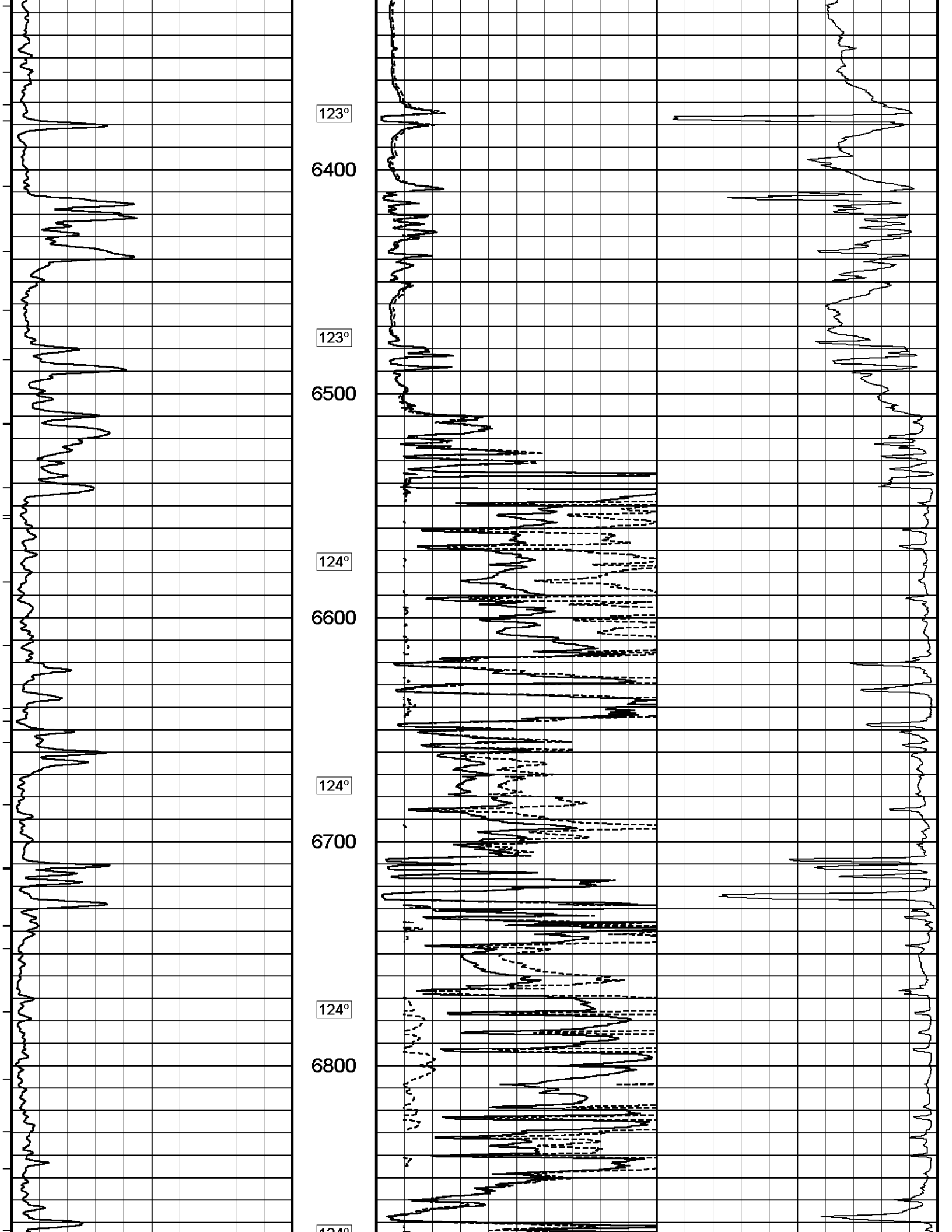
RIG: LARIAT #41

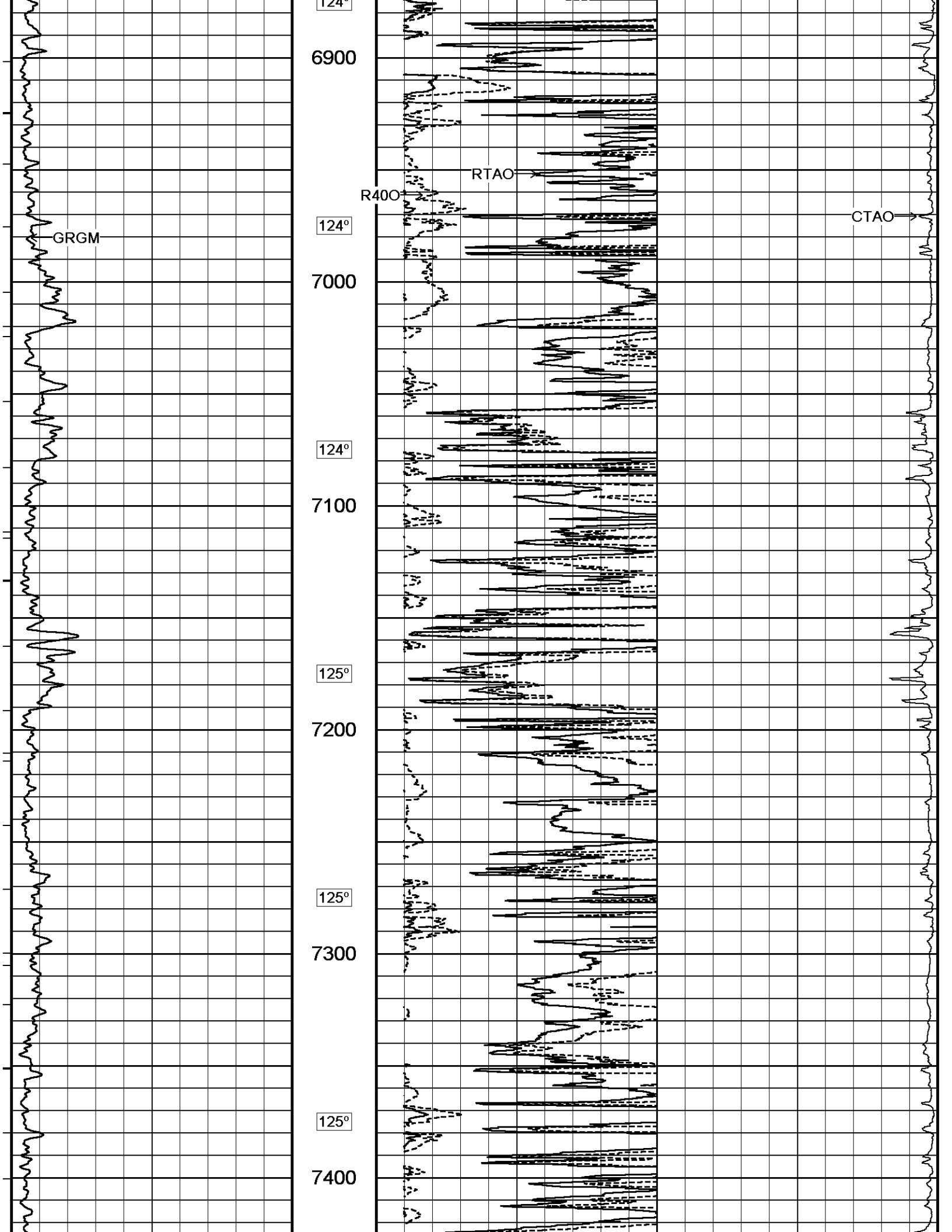
LOG RESPONSES EFFECTED BY HOLE RUGOSITY

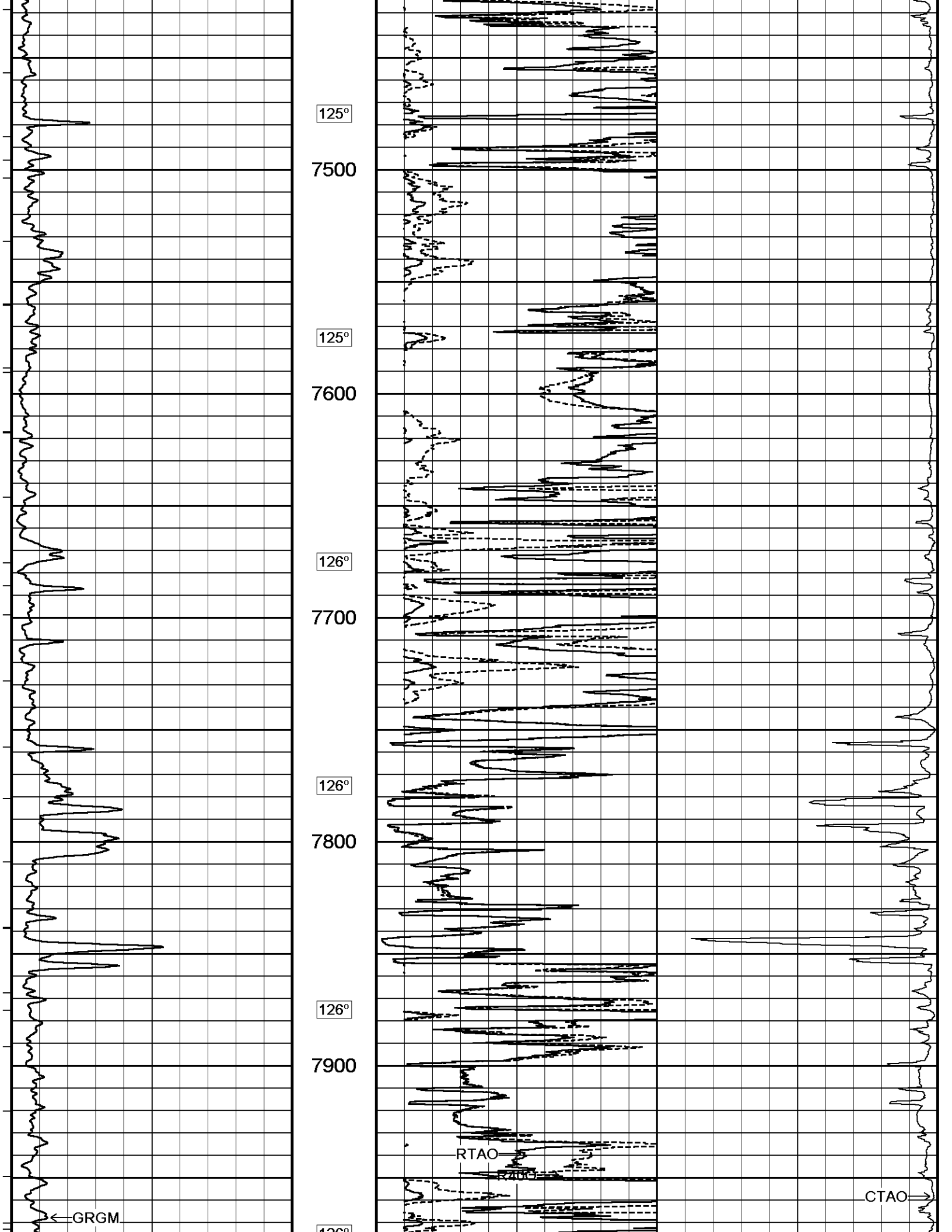
All interpretations are opinions based on inferences from electrical or other measurements and we cannot, and do not, guarantee the accuracy or correctness of any interpretations, and we shall not, except in the case of gross or wilful negligence on our part, be liable or responsible for any loss, costs,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

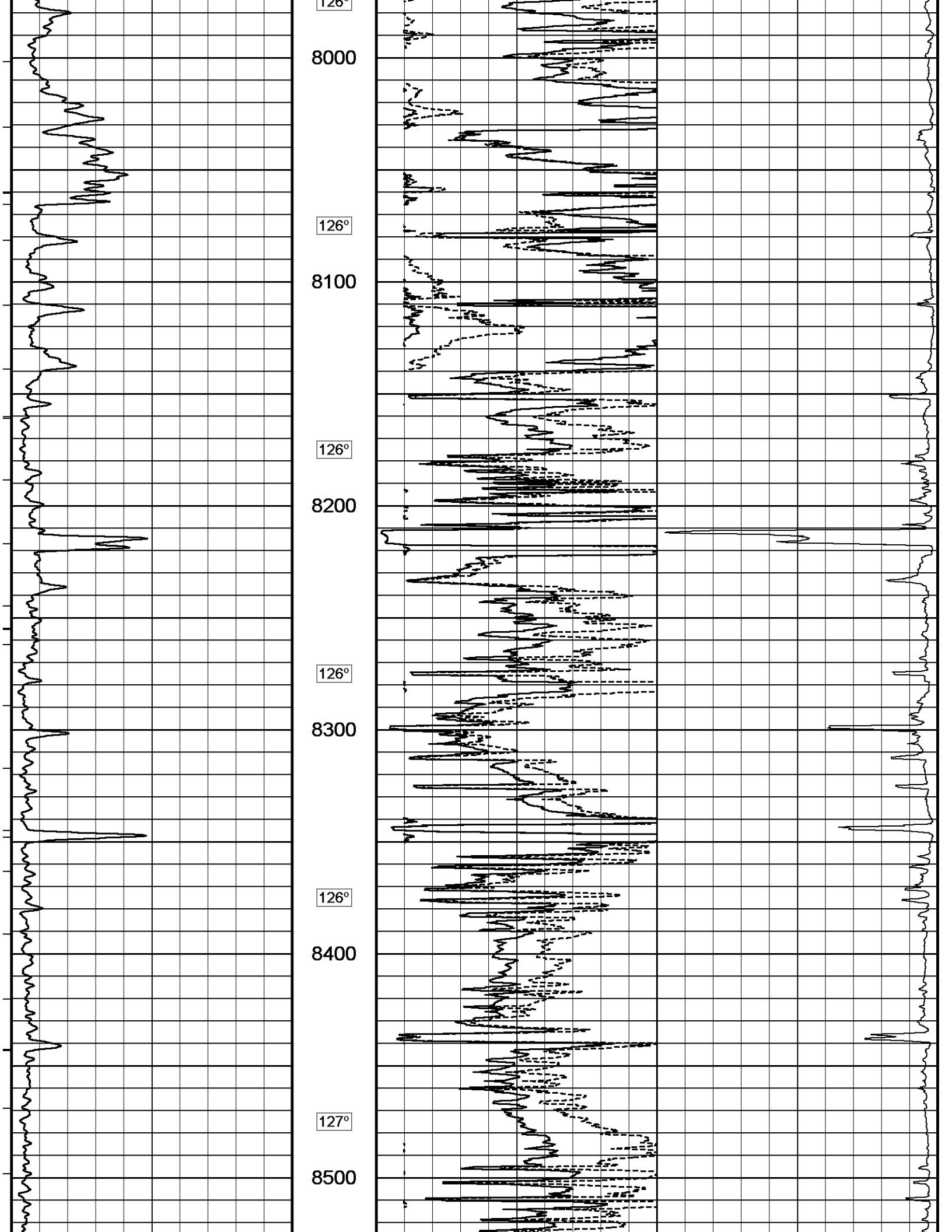


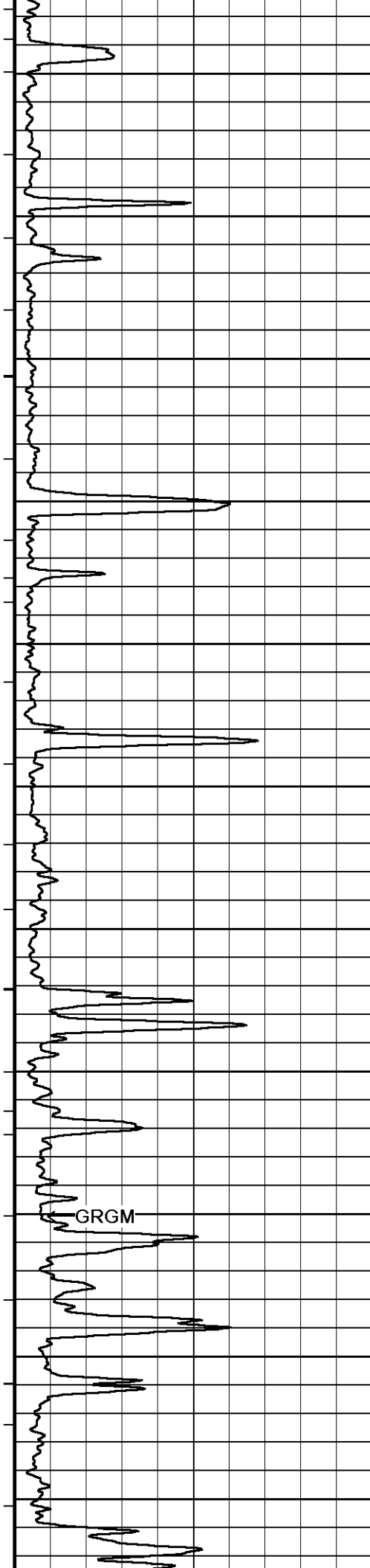












127°

8600

127°

8700

127°

8800

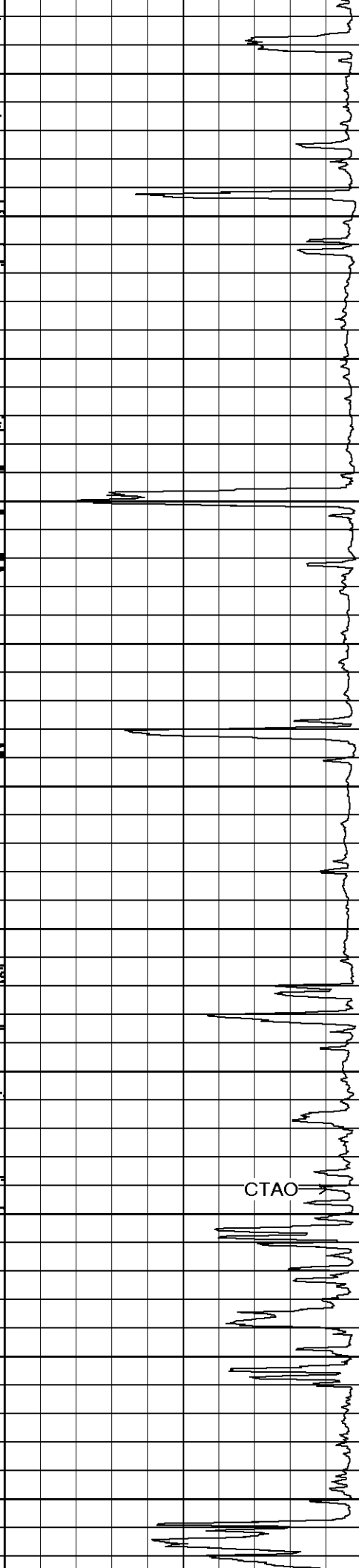
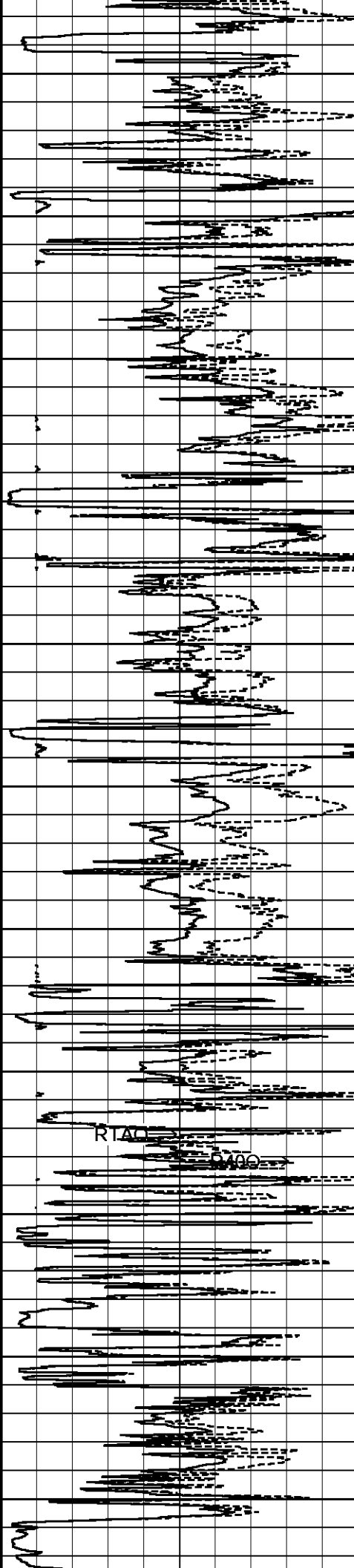
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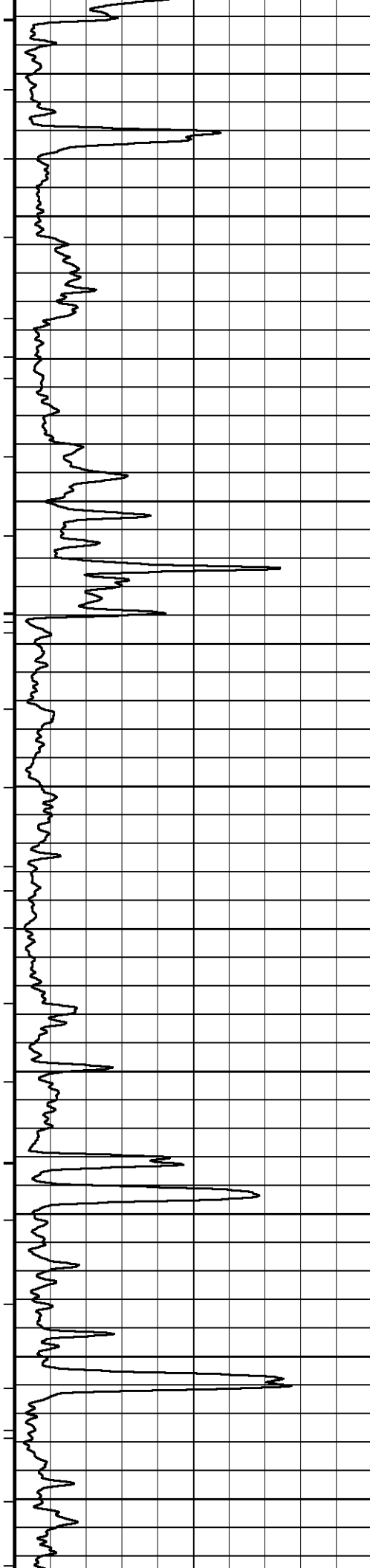
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127°

9000

127°





127°

9100

127°

9200

127°

9300

127°

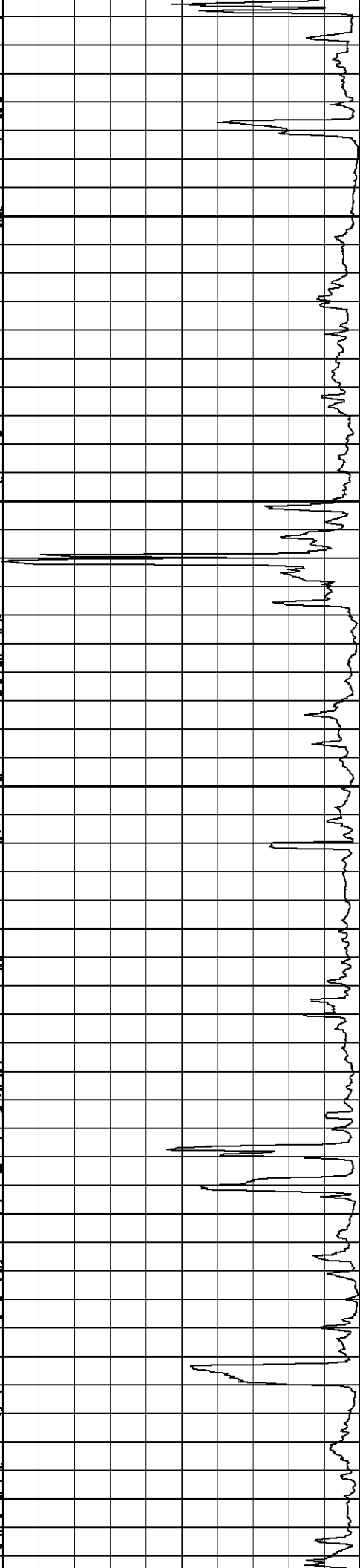
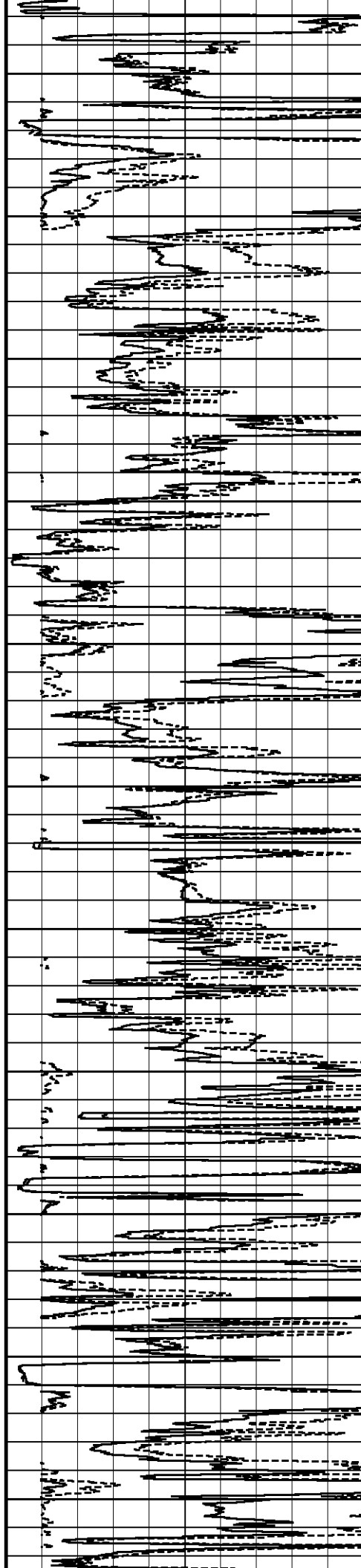
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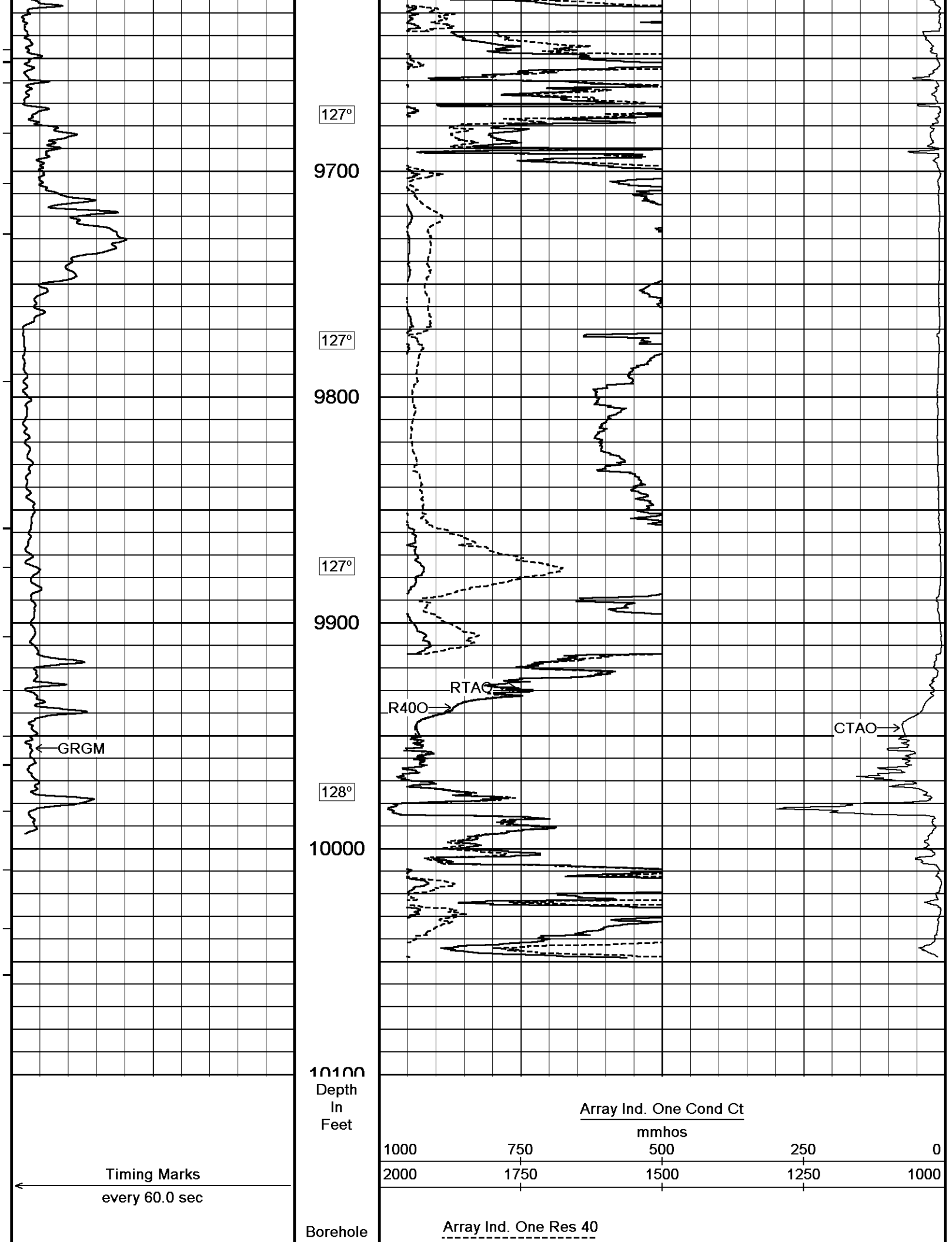
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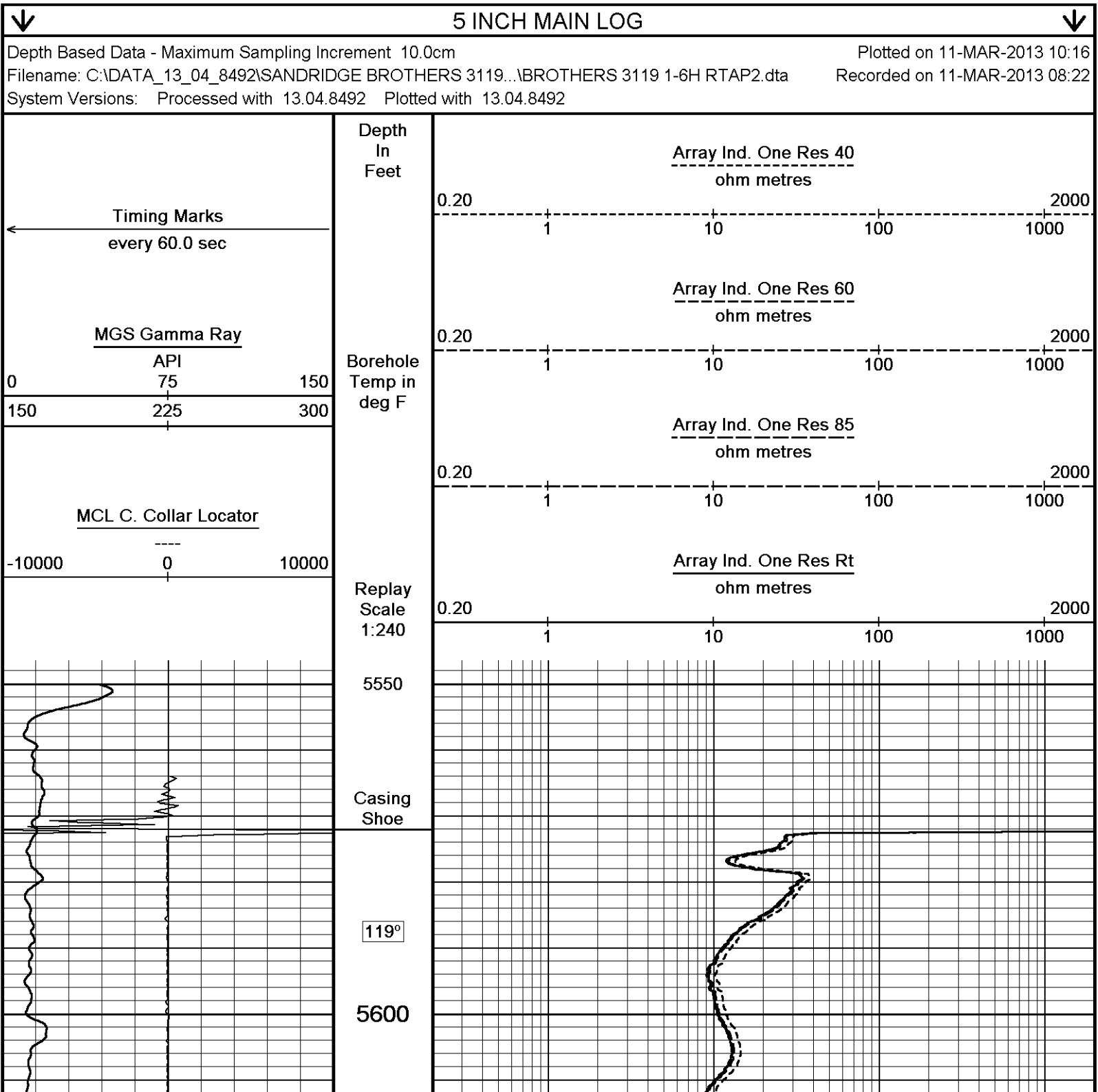
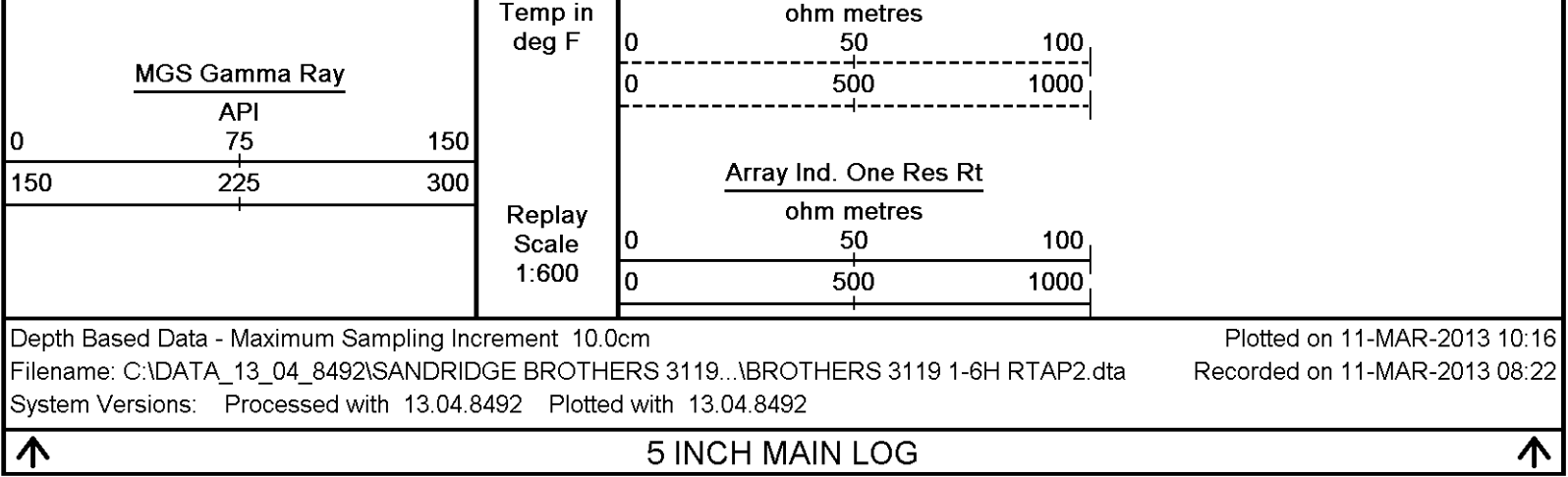
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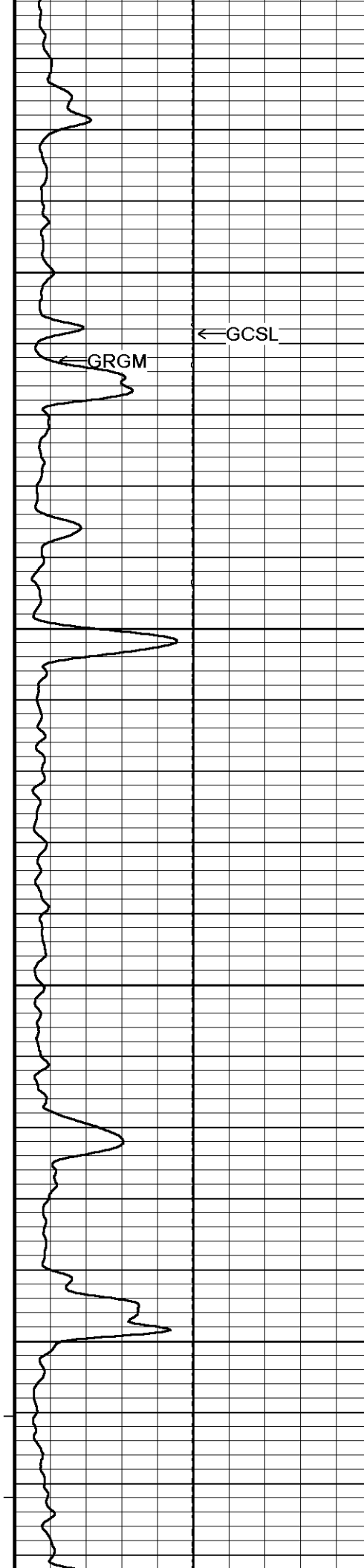
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9600









119°

5650

120°

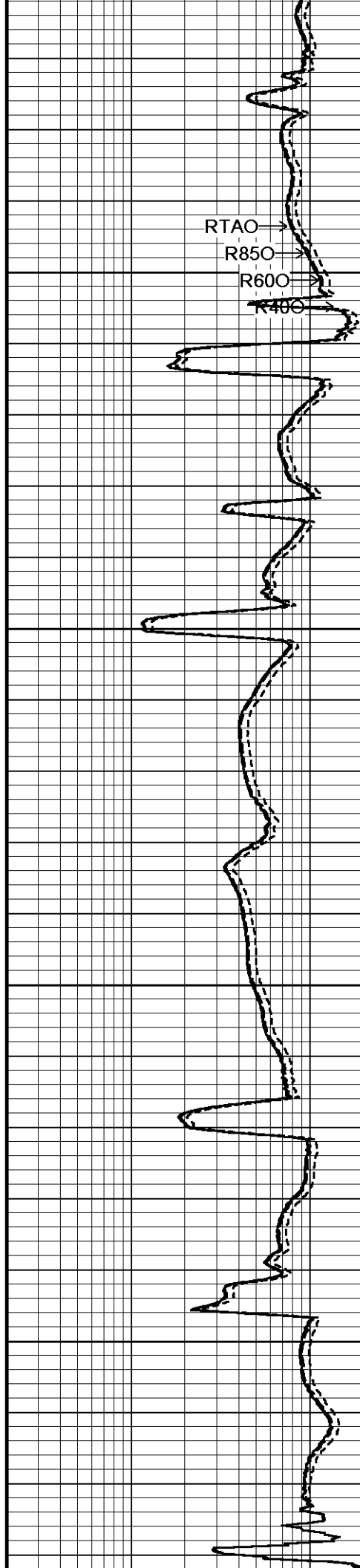
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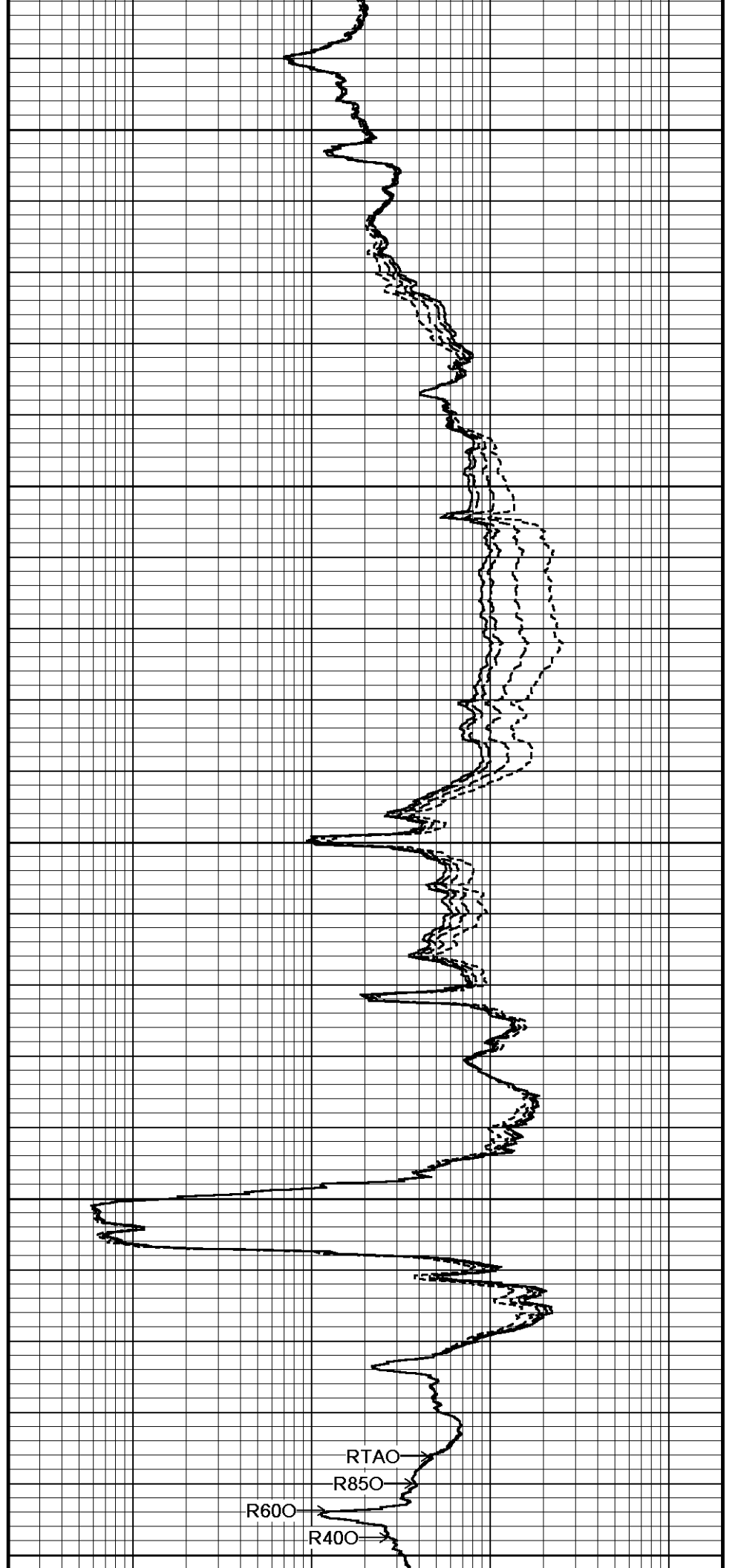
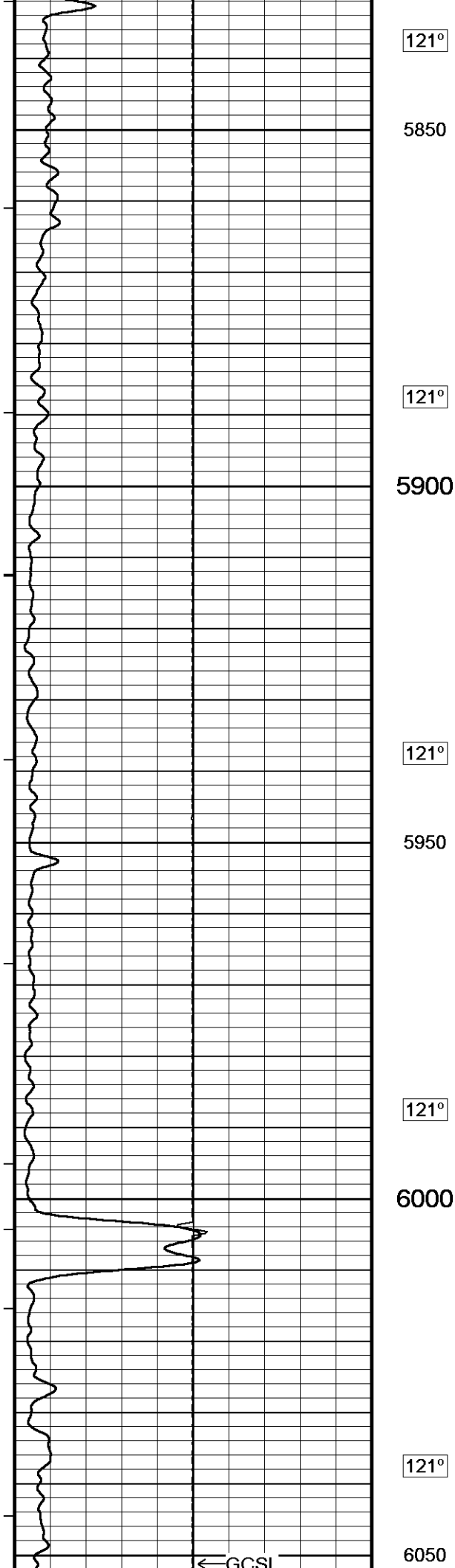
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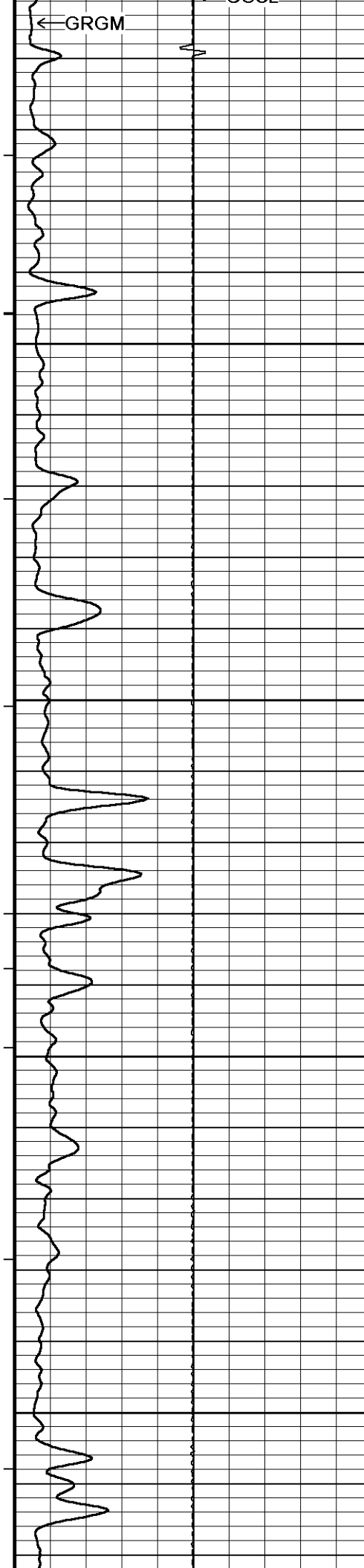
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121°

5800







121°

6100

122°

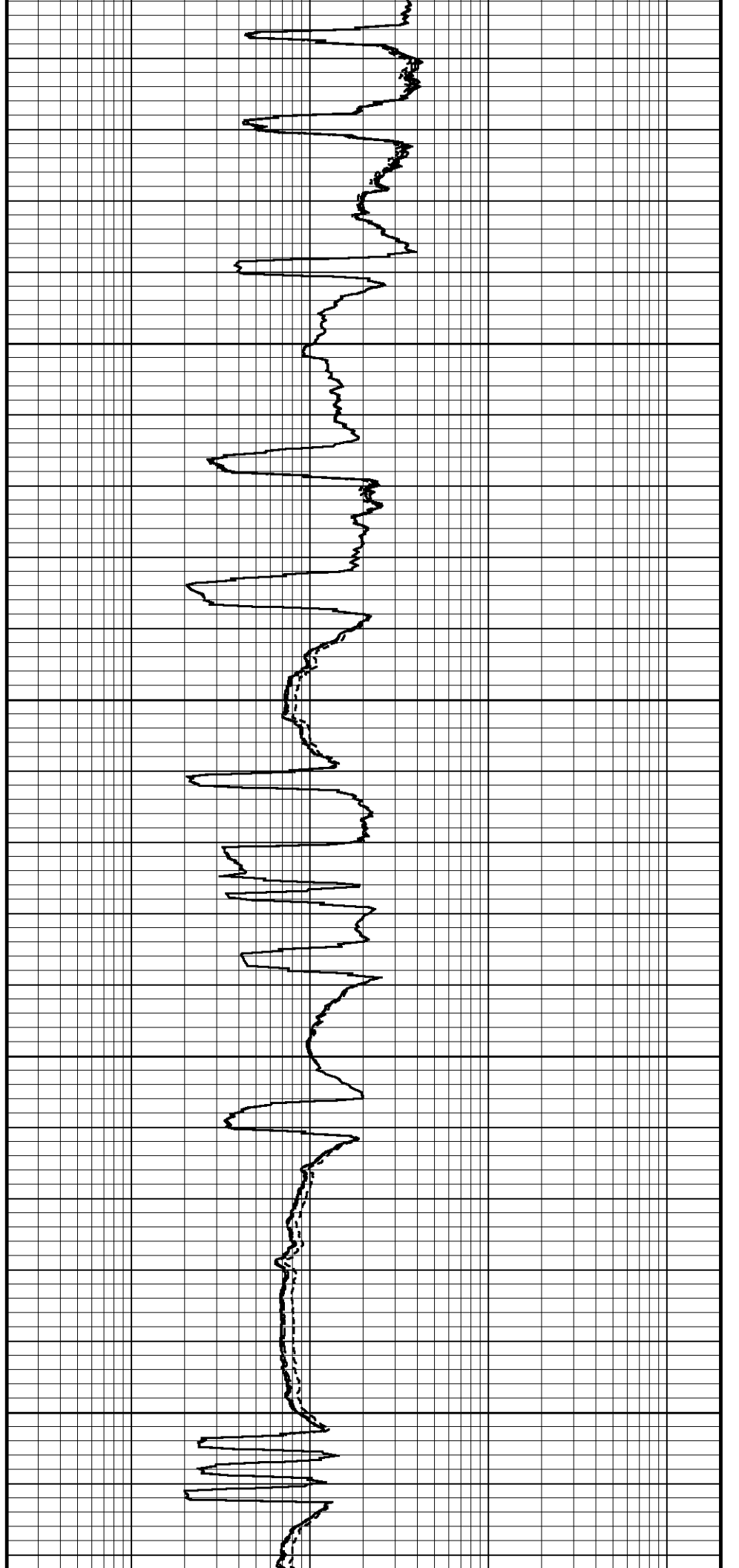
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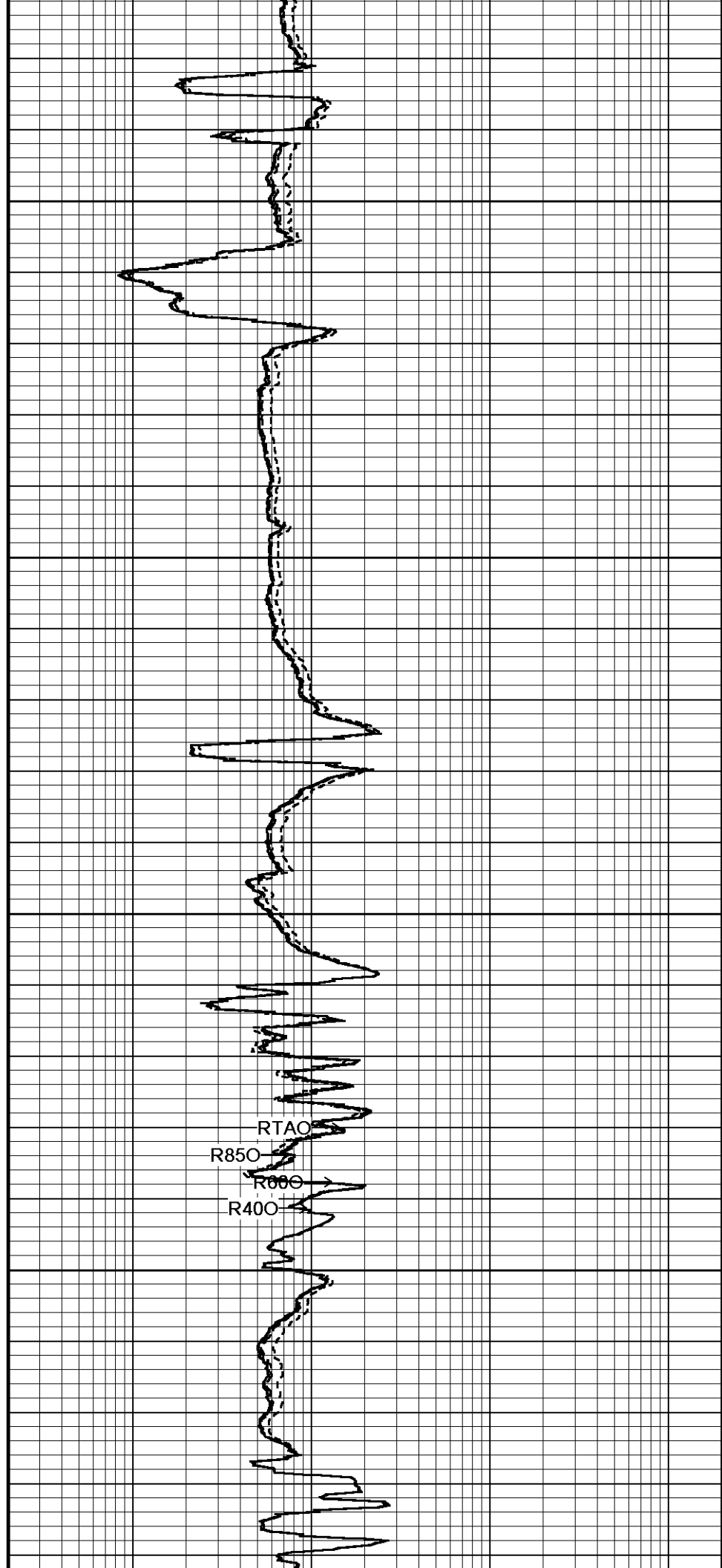
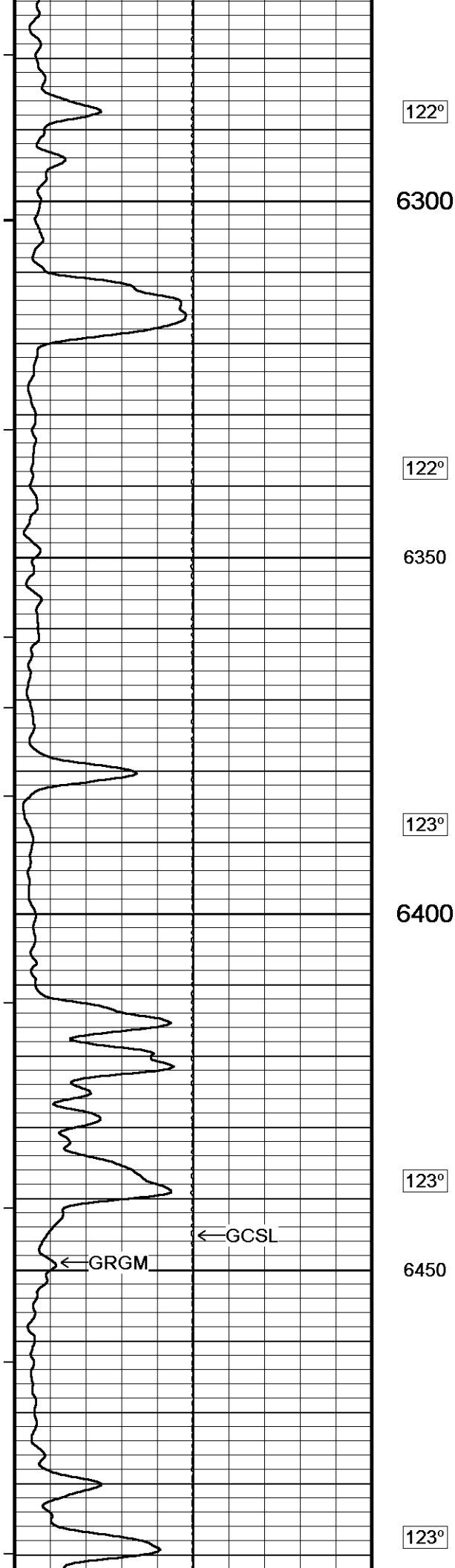
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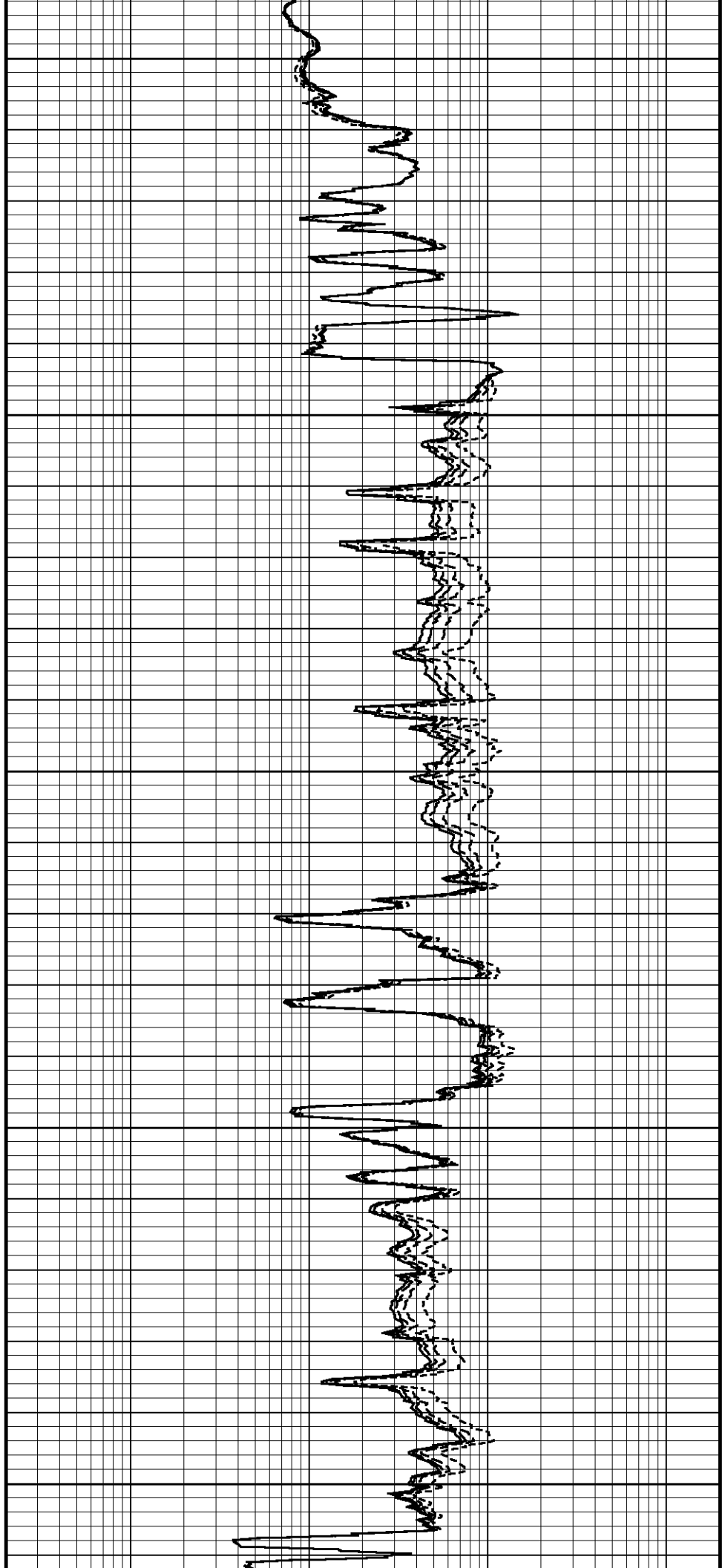
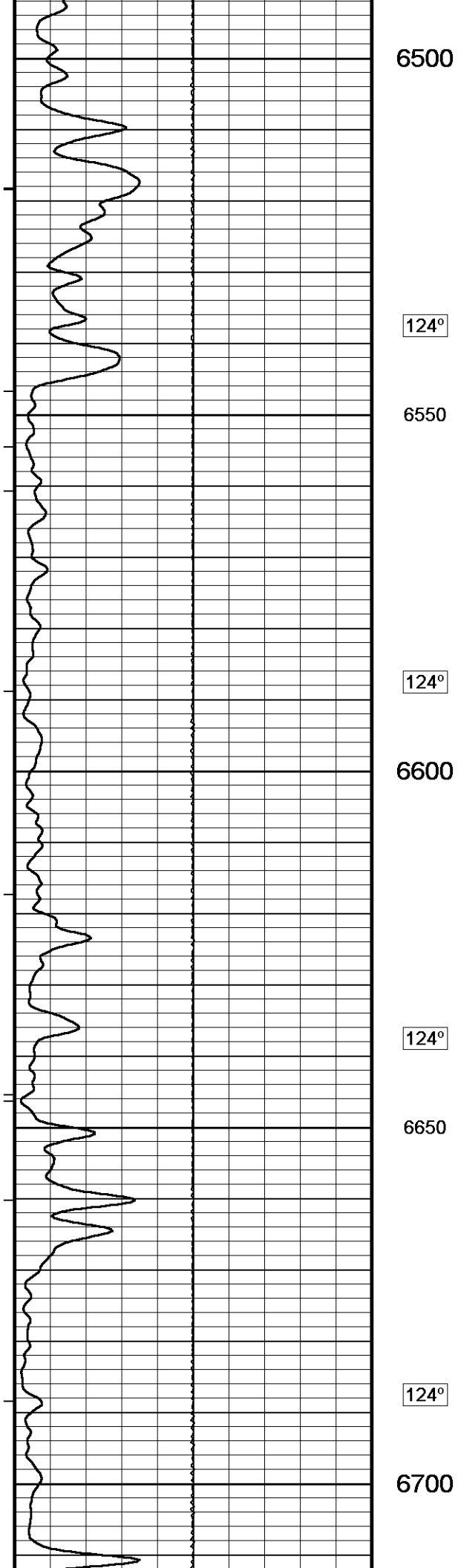
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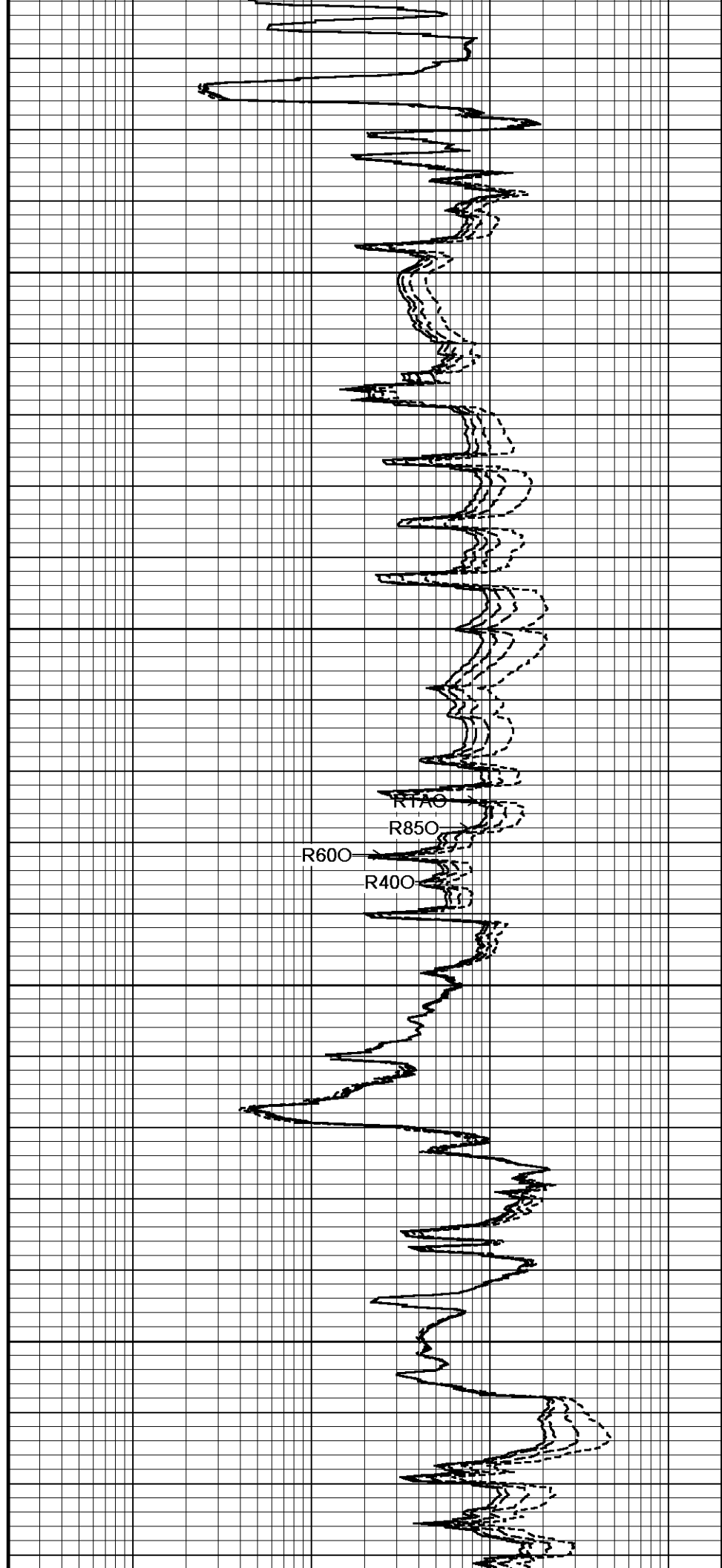
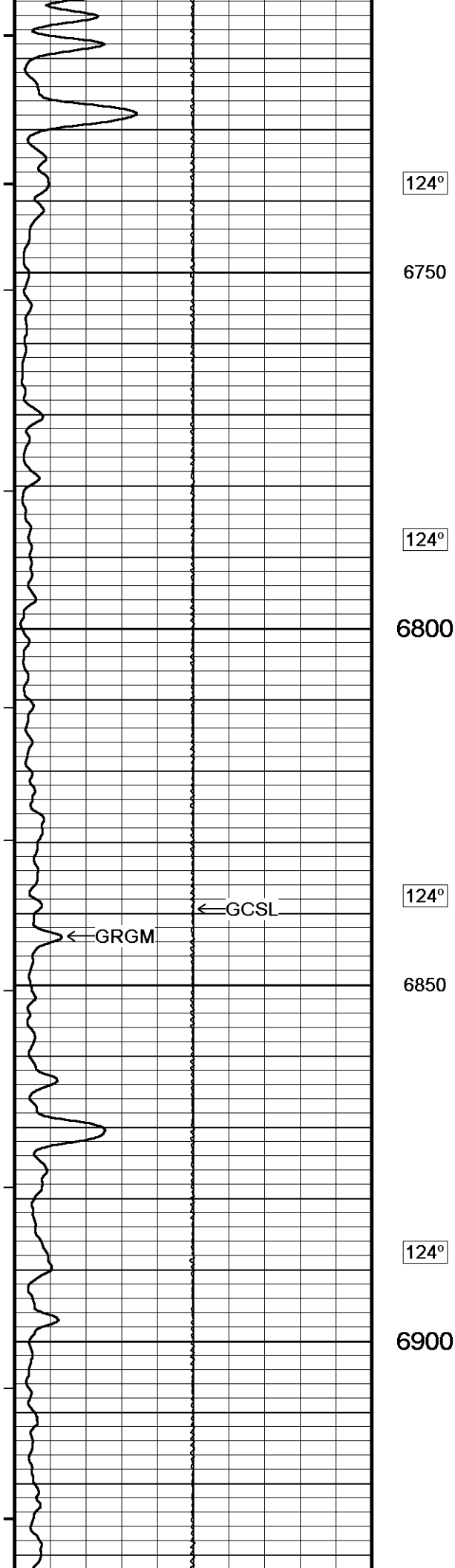
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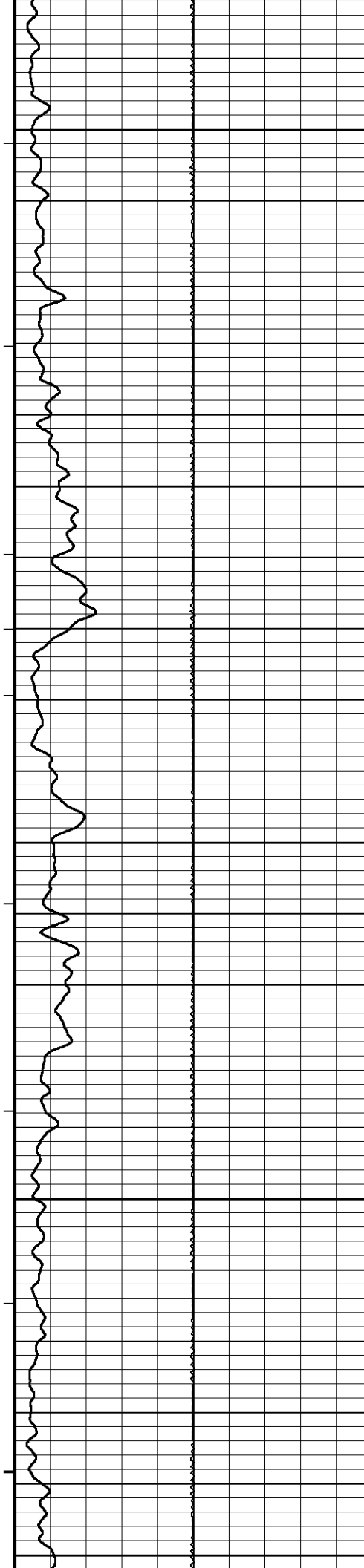
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124°

6950

124°

7000

124°

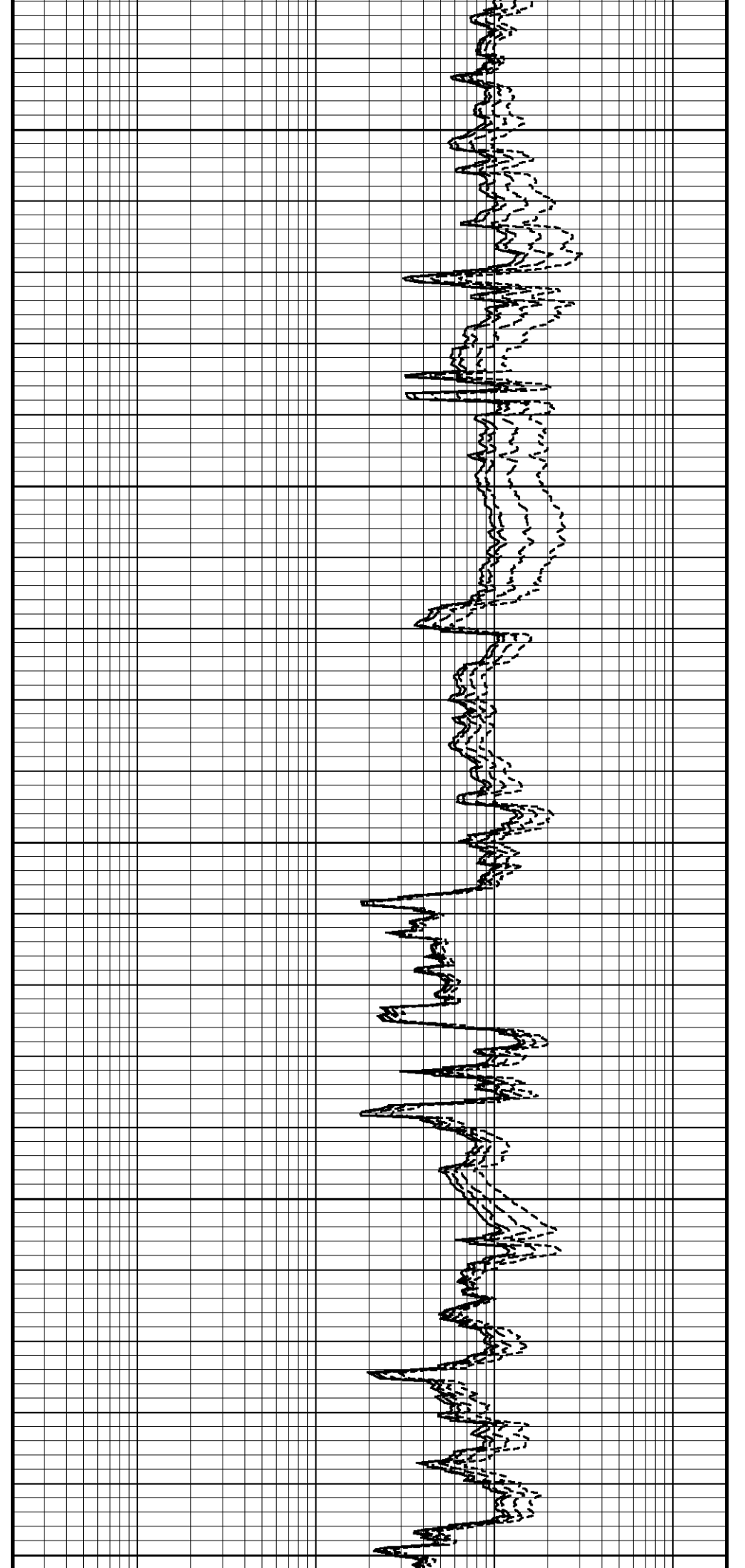
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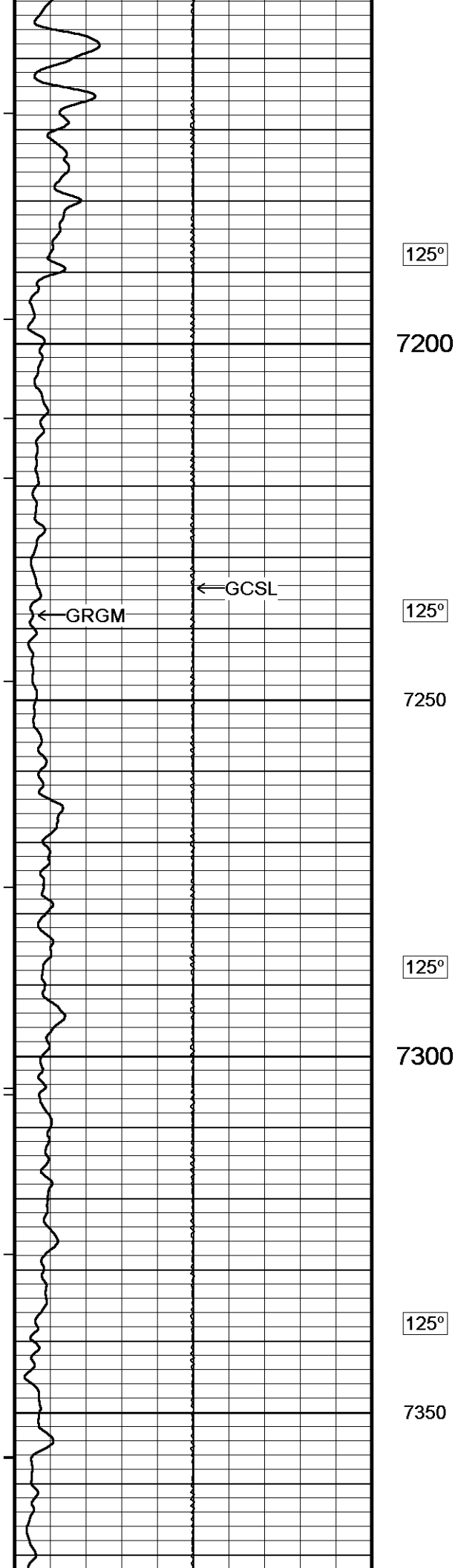
124°

7100

125°

7150





125°

7200

125°

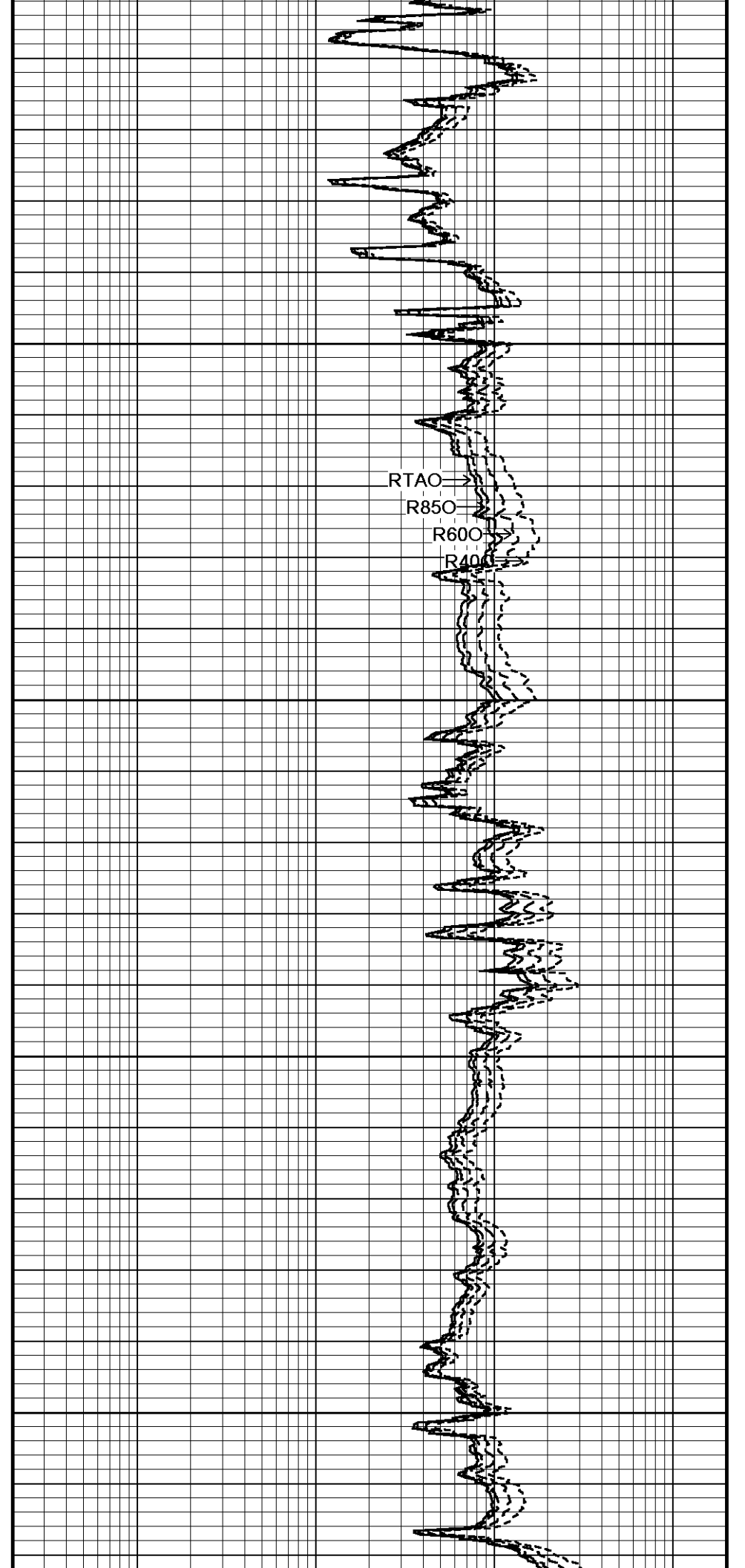
7250

125°

7300

125°

7350

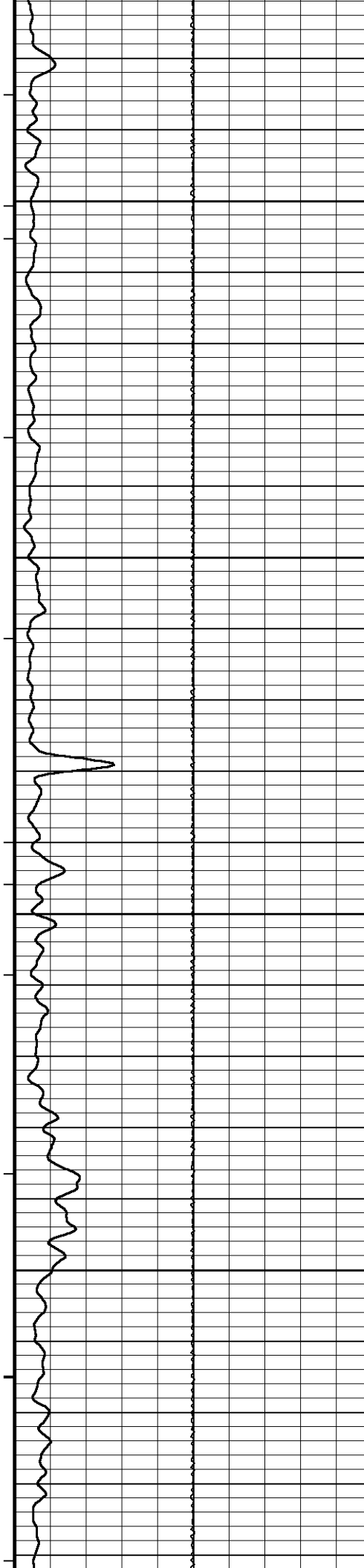


RTAO

R850

R600

R400



125°

7400

125°

7450

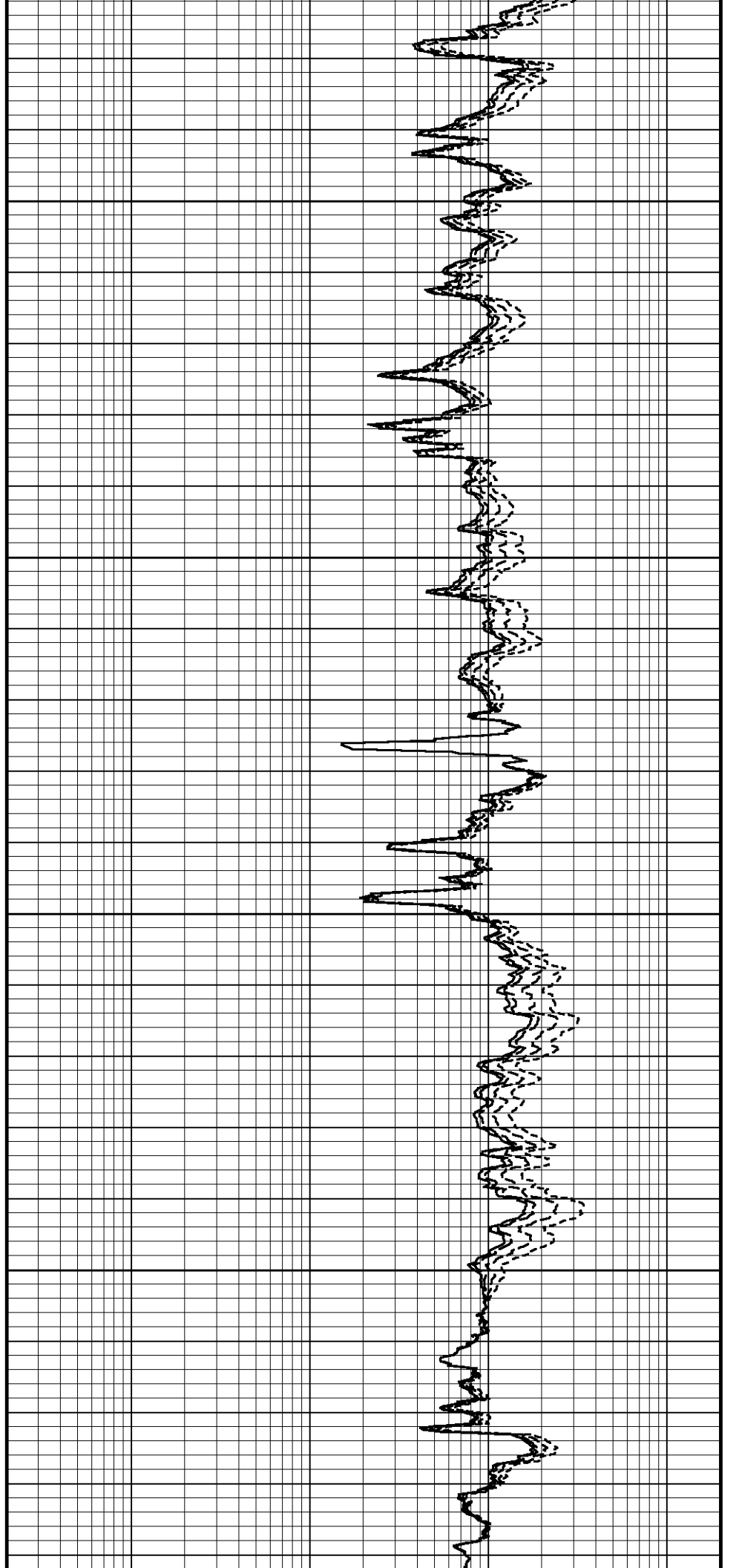
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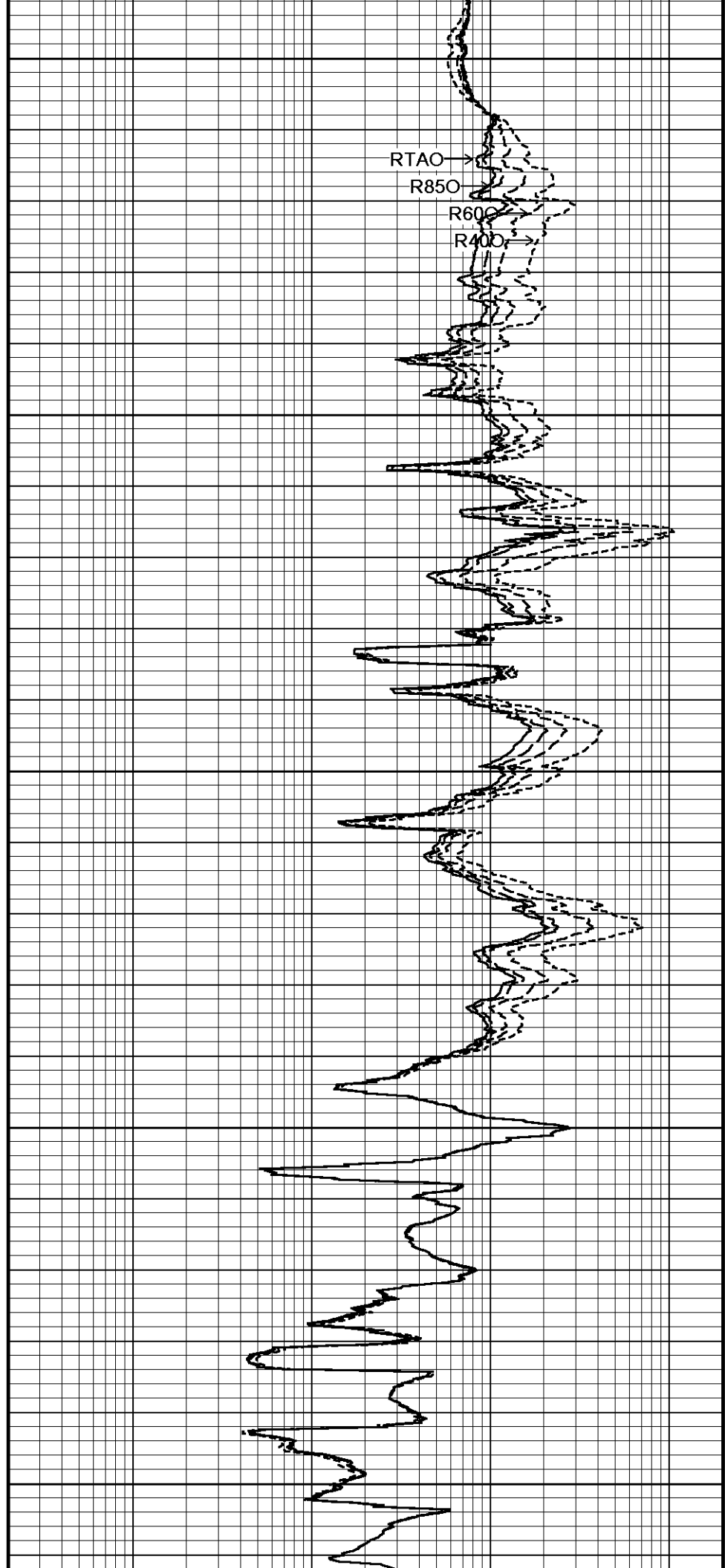
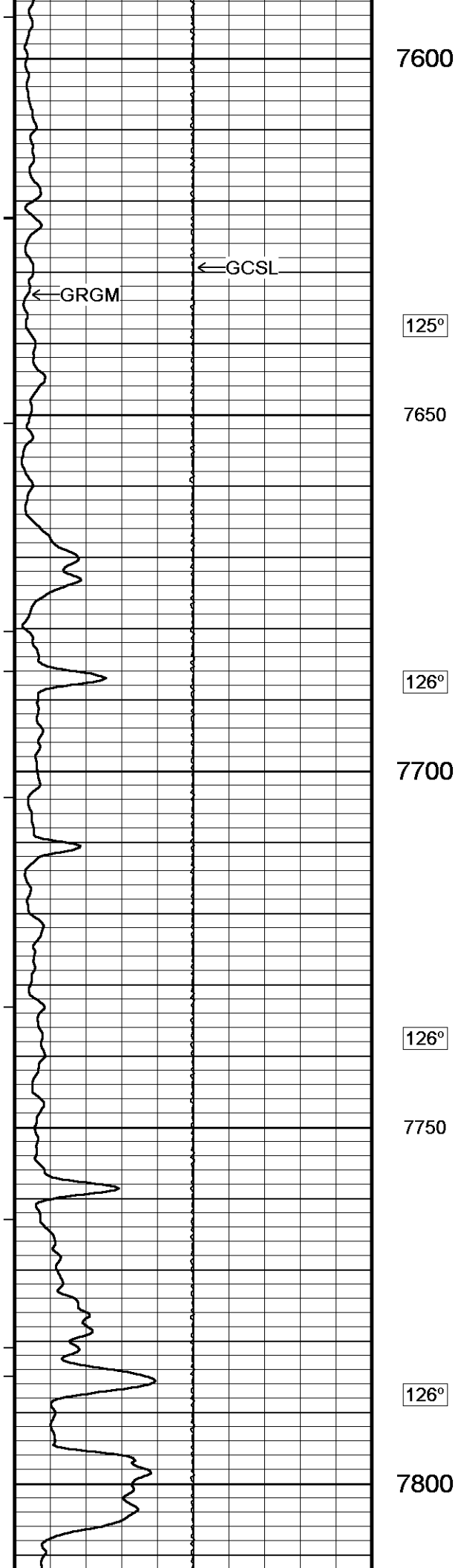
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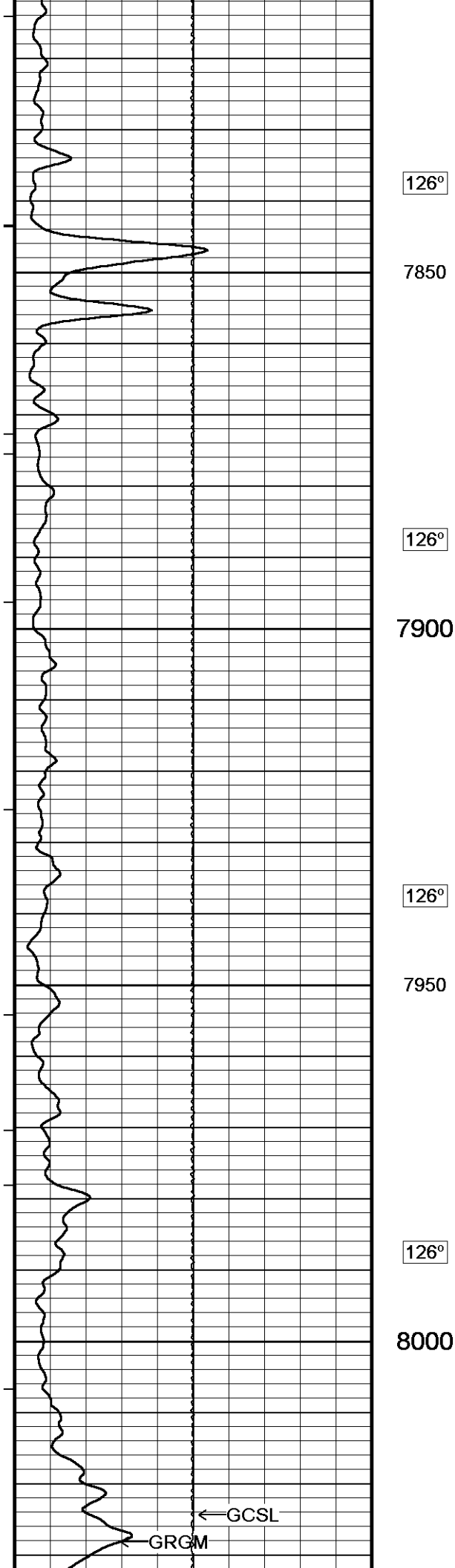
125°

7550

125°







126°

7850

126°

7900

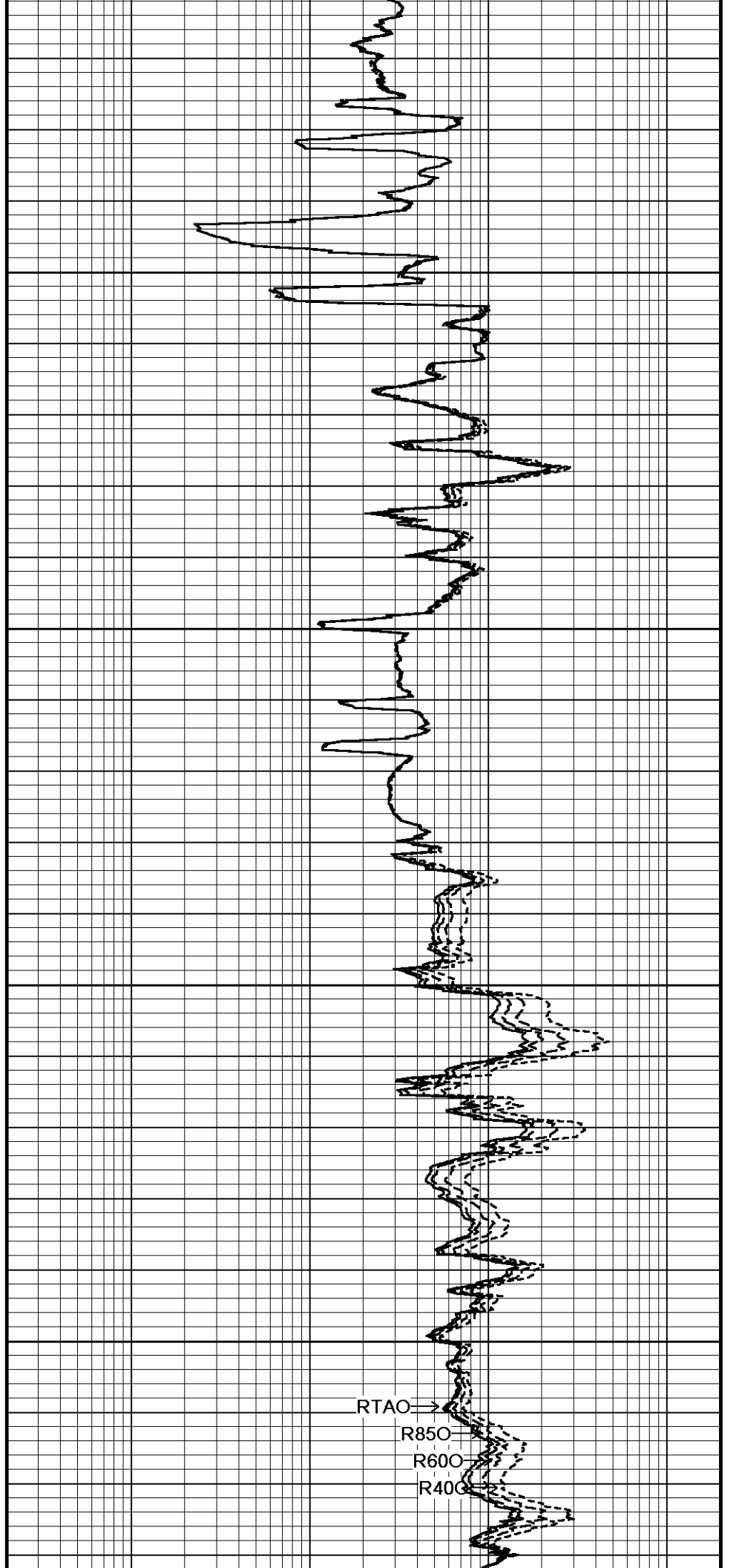
126°

7950

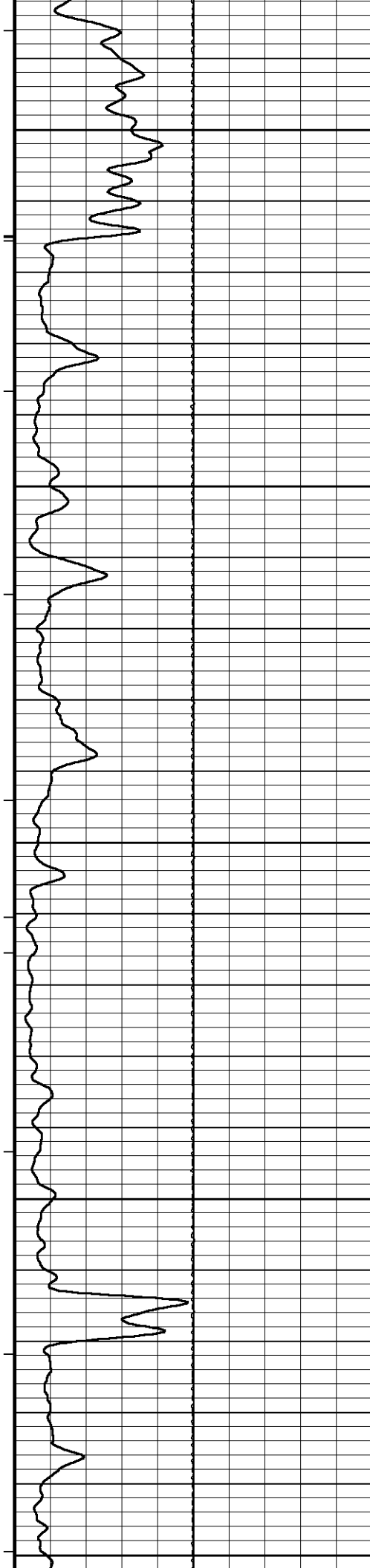
126°

8000

← GCSL
GRGM



RTAO →
R850 →
R600 →
R400 →



126°

8050

126°

8100

126°

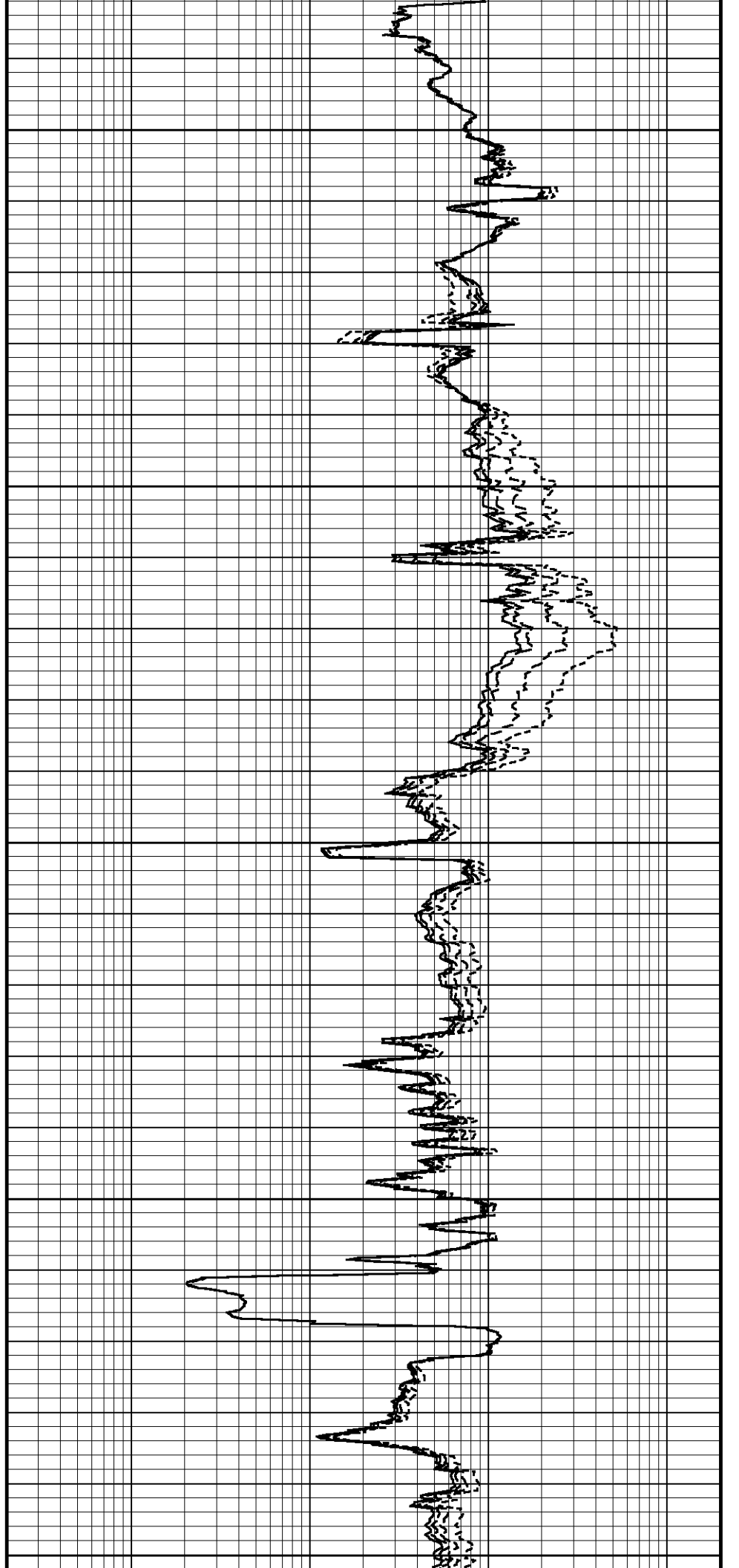
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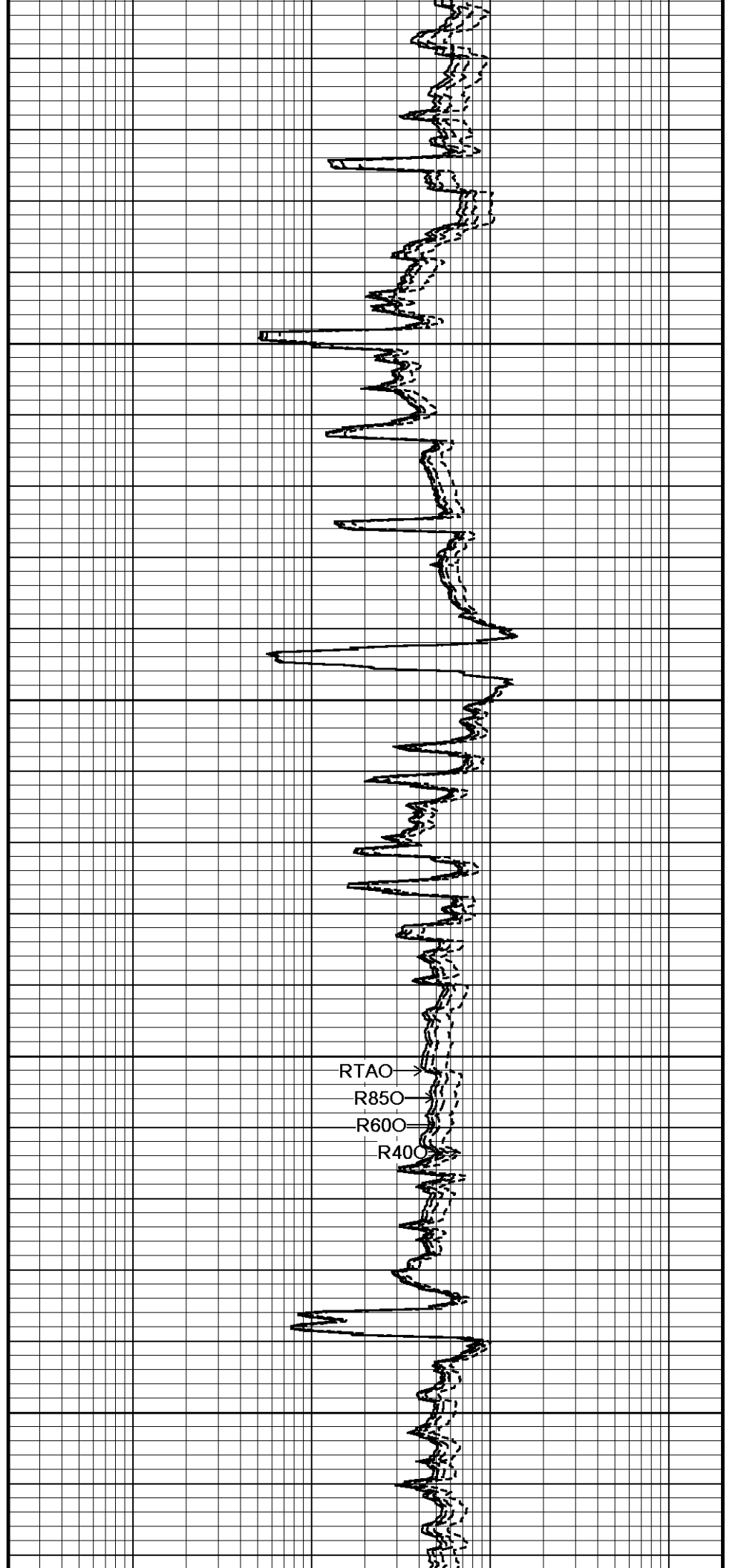
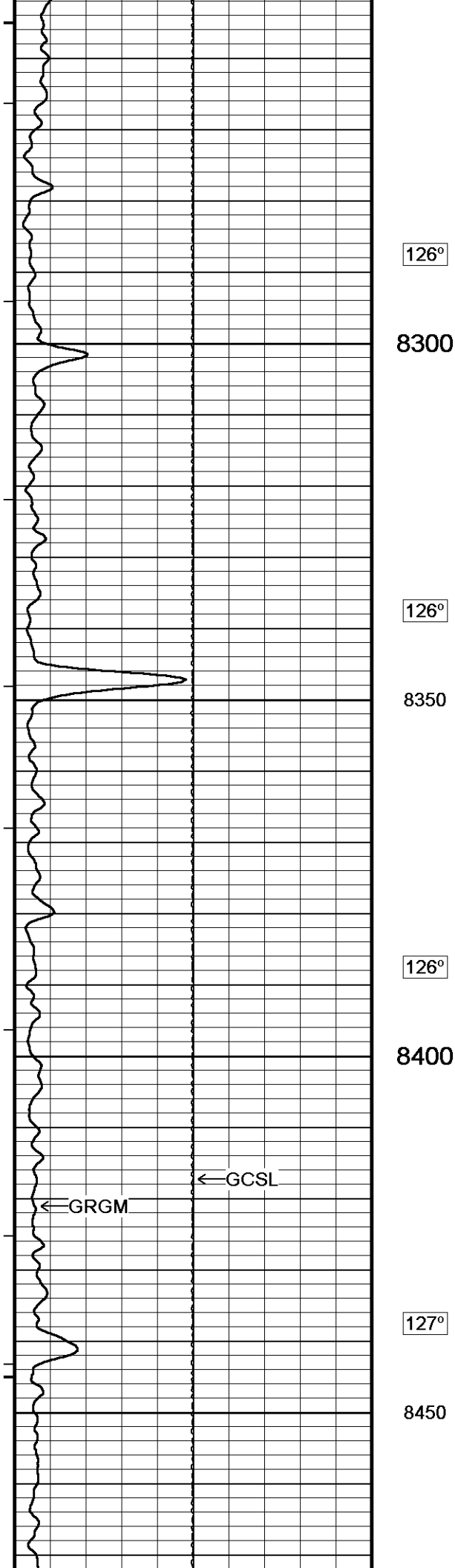
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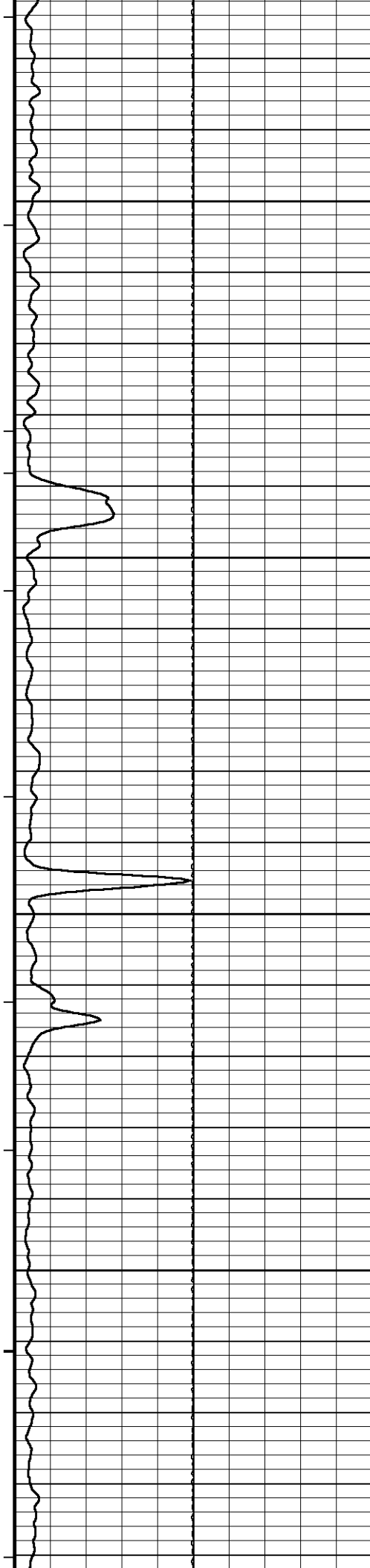
8200

126°

8250







127°

8500

127°

8550

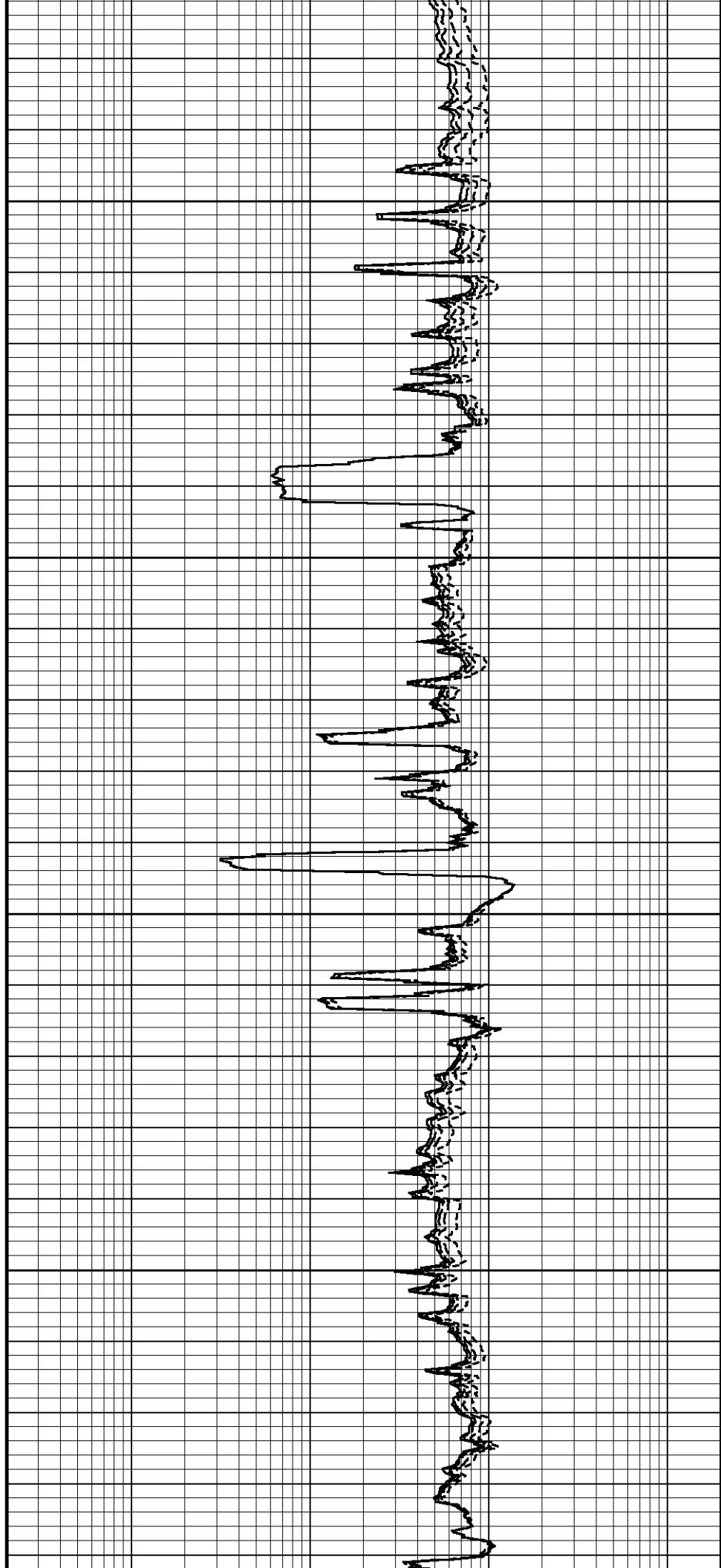
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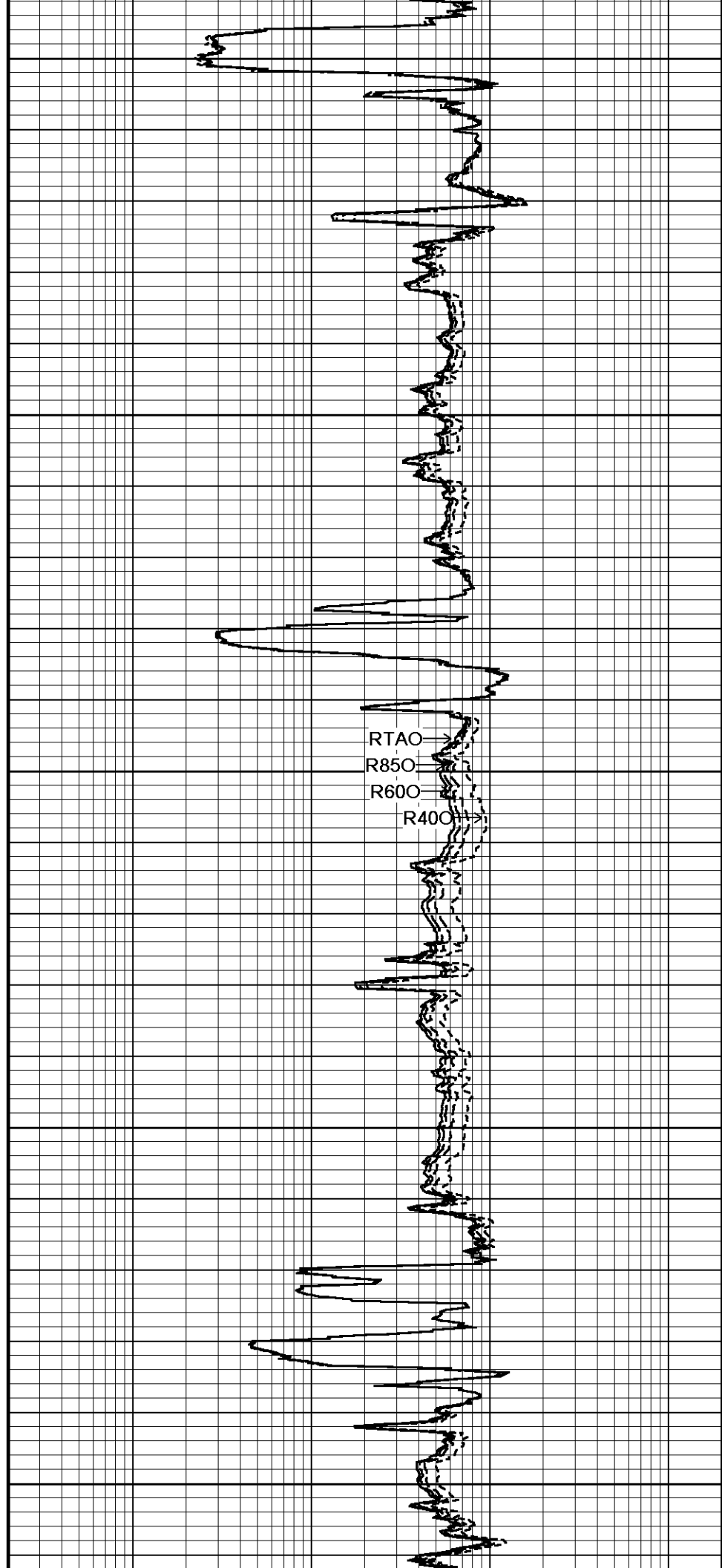
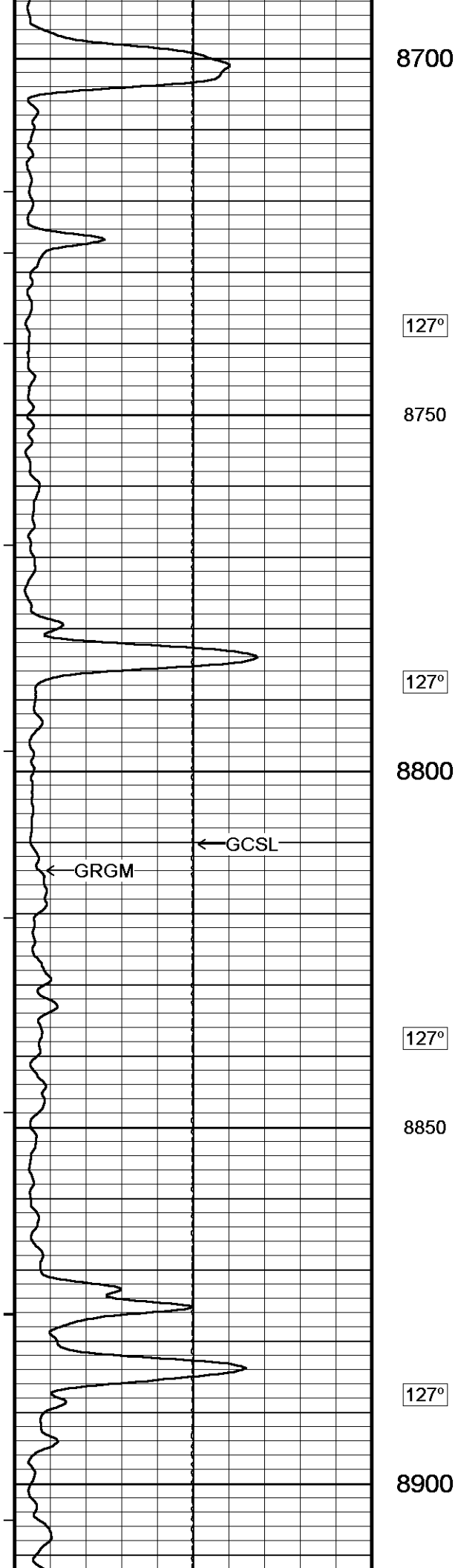
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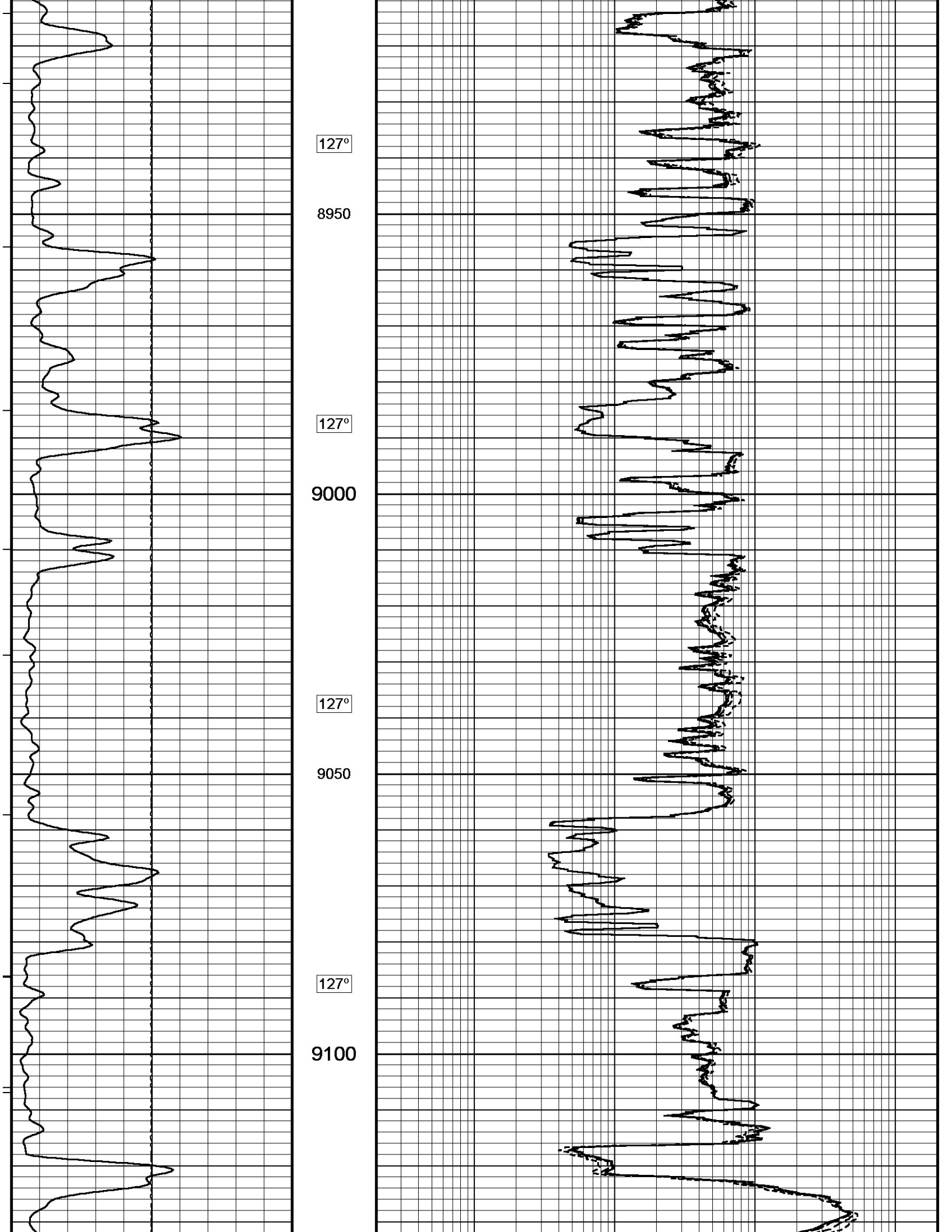
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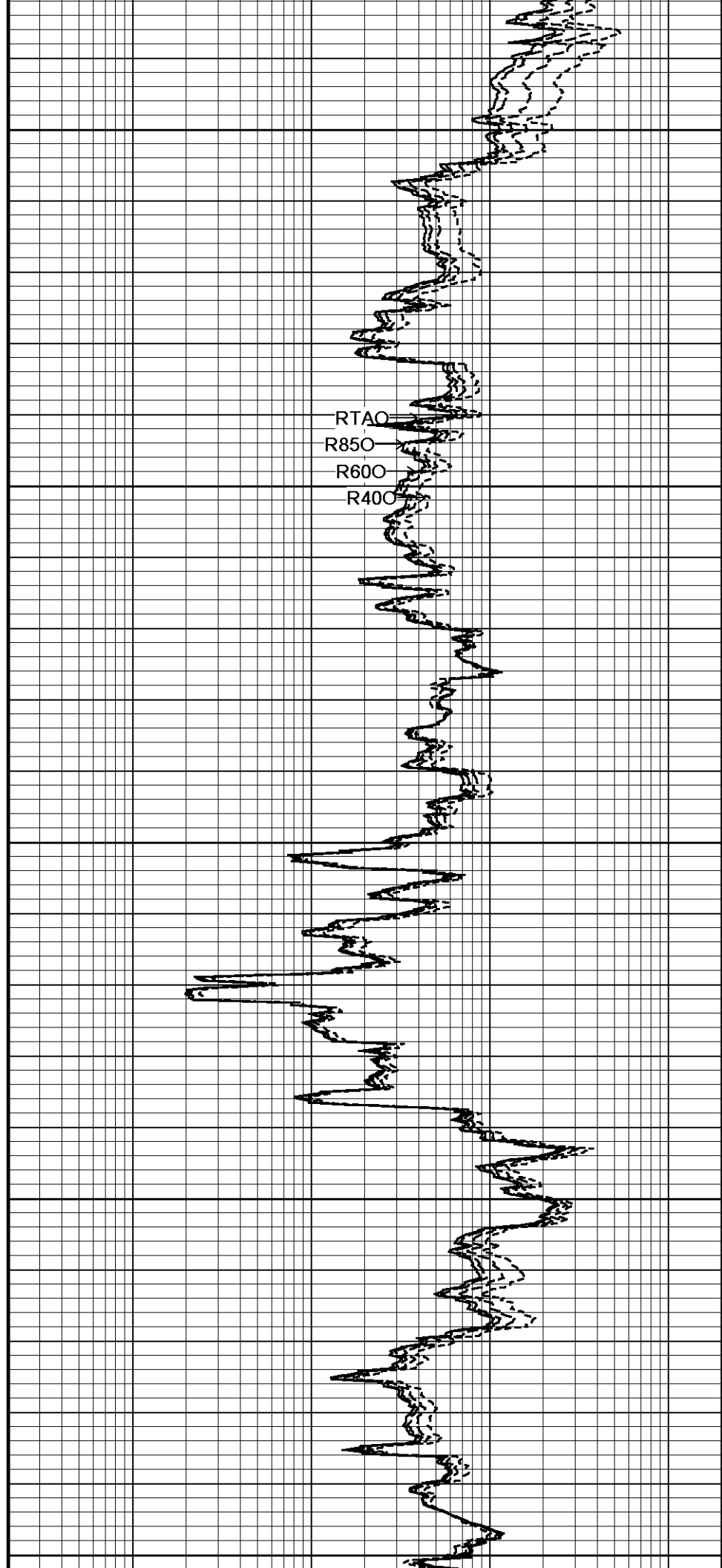
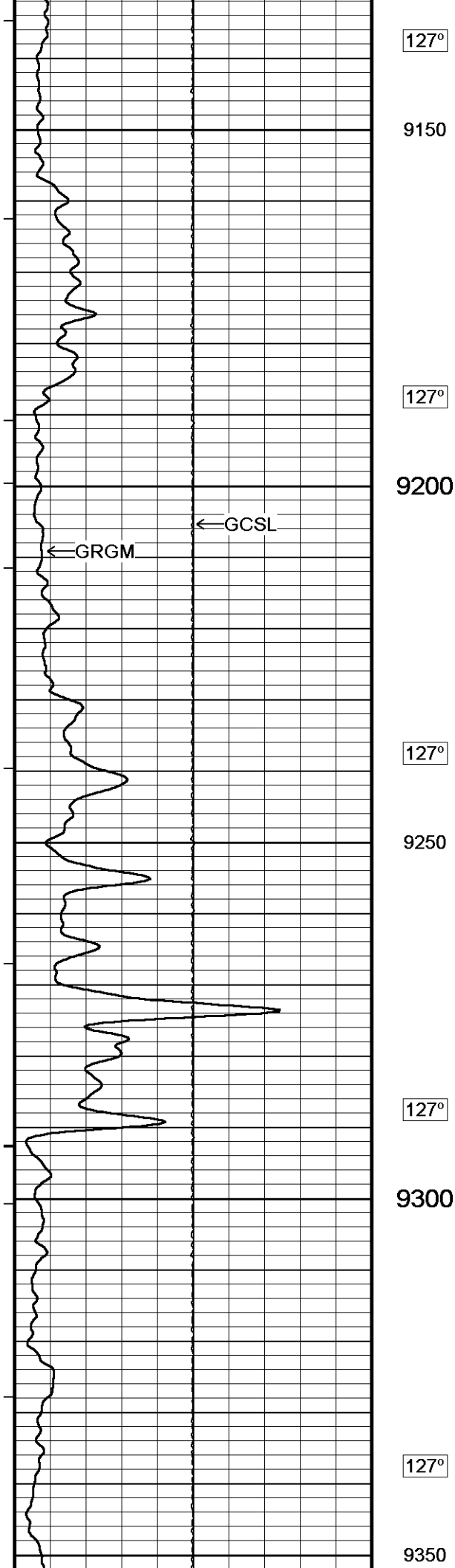
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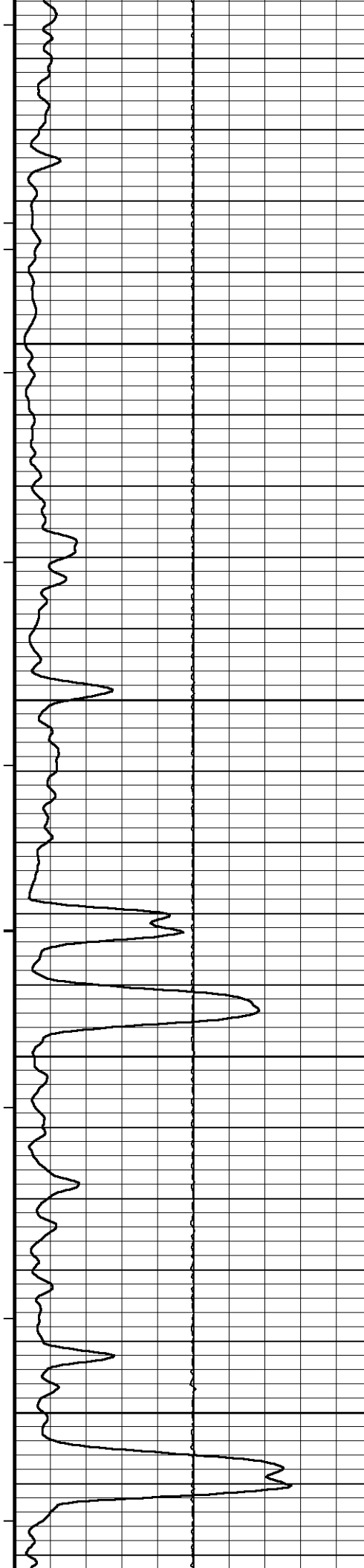
127°











127°

9400

127°

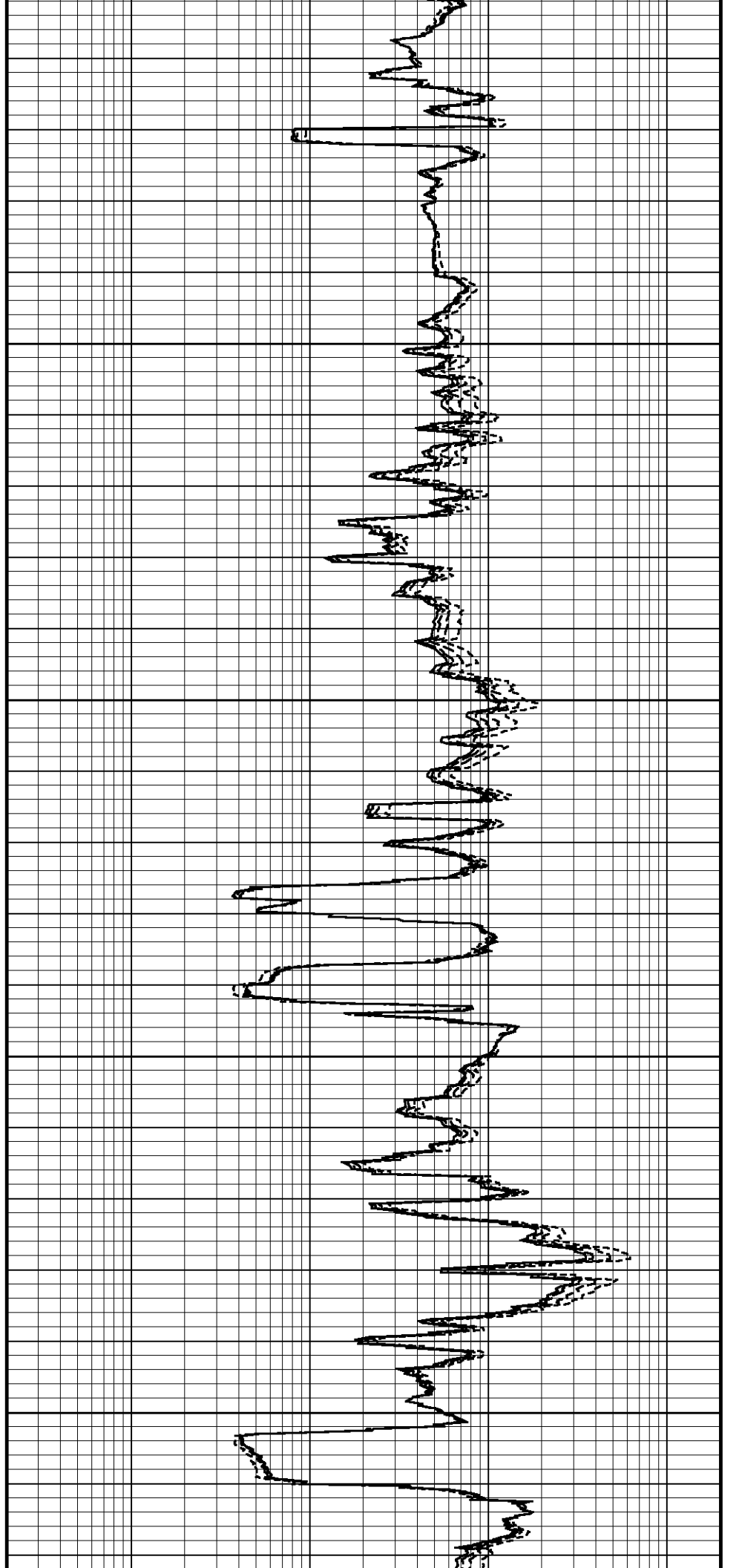
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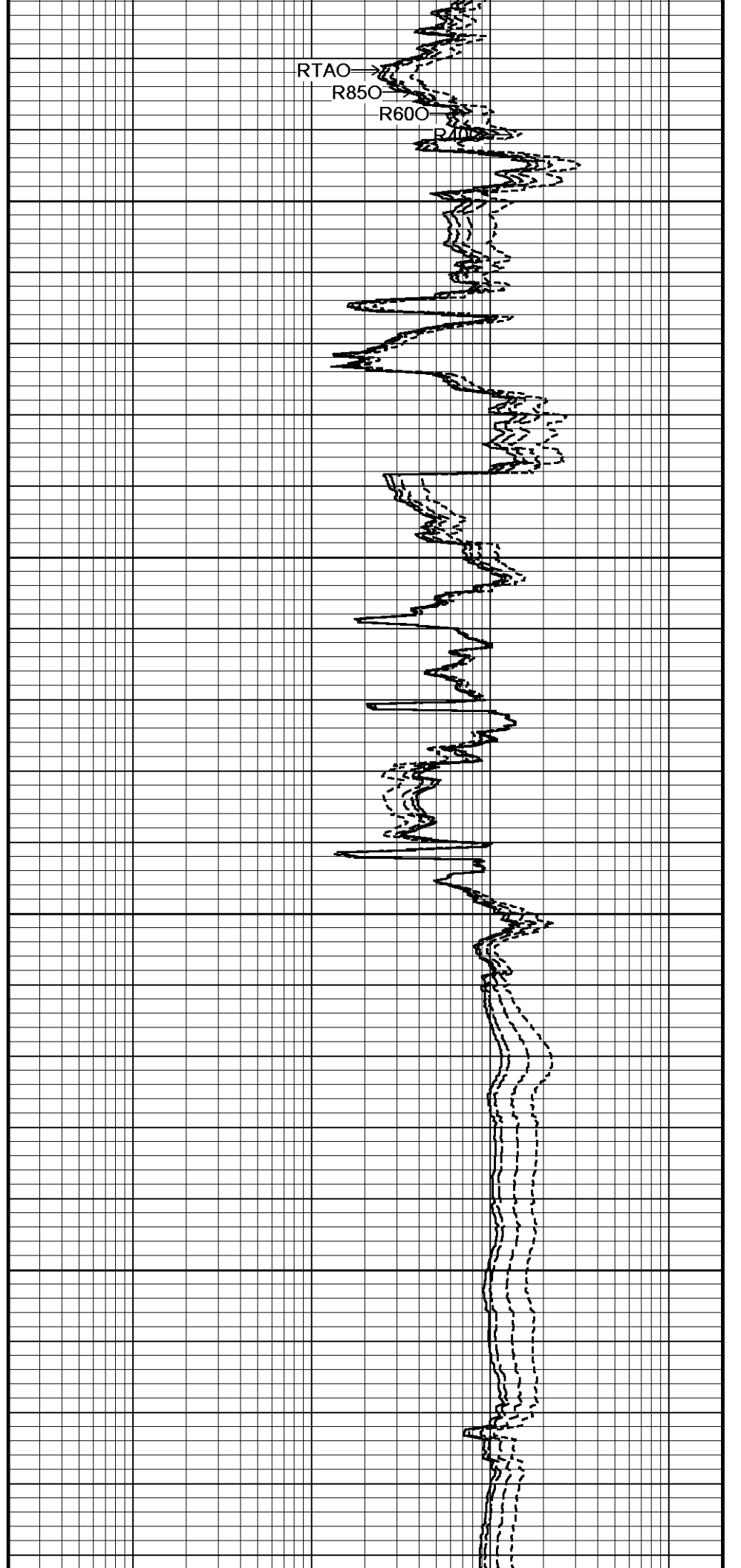
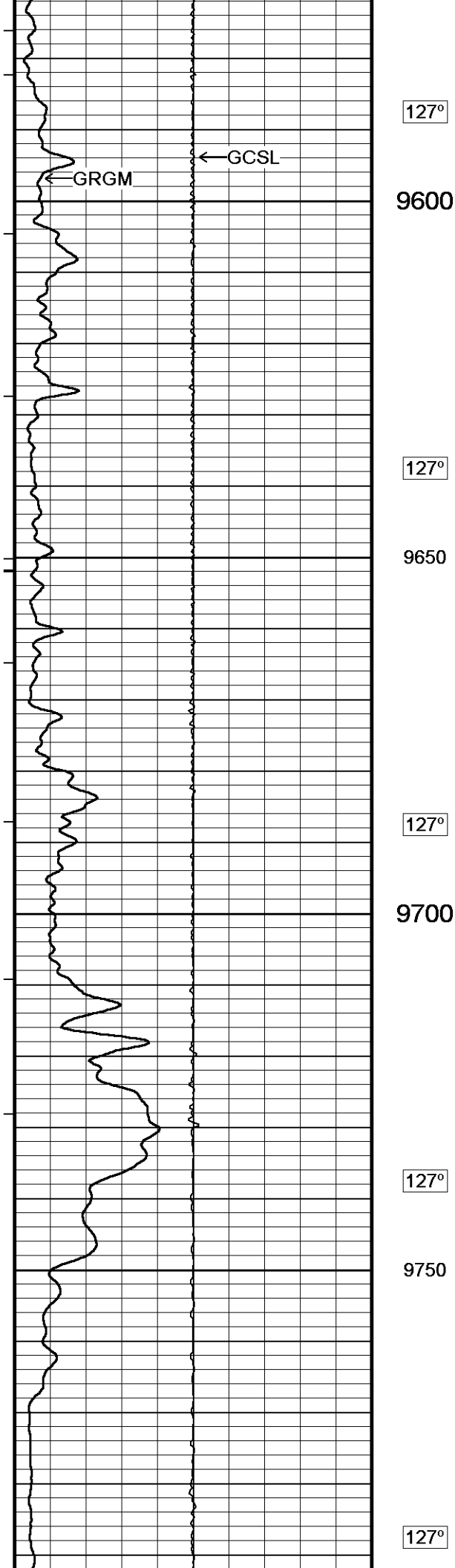
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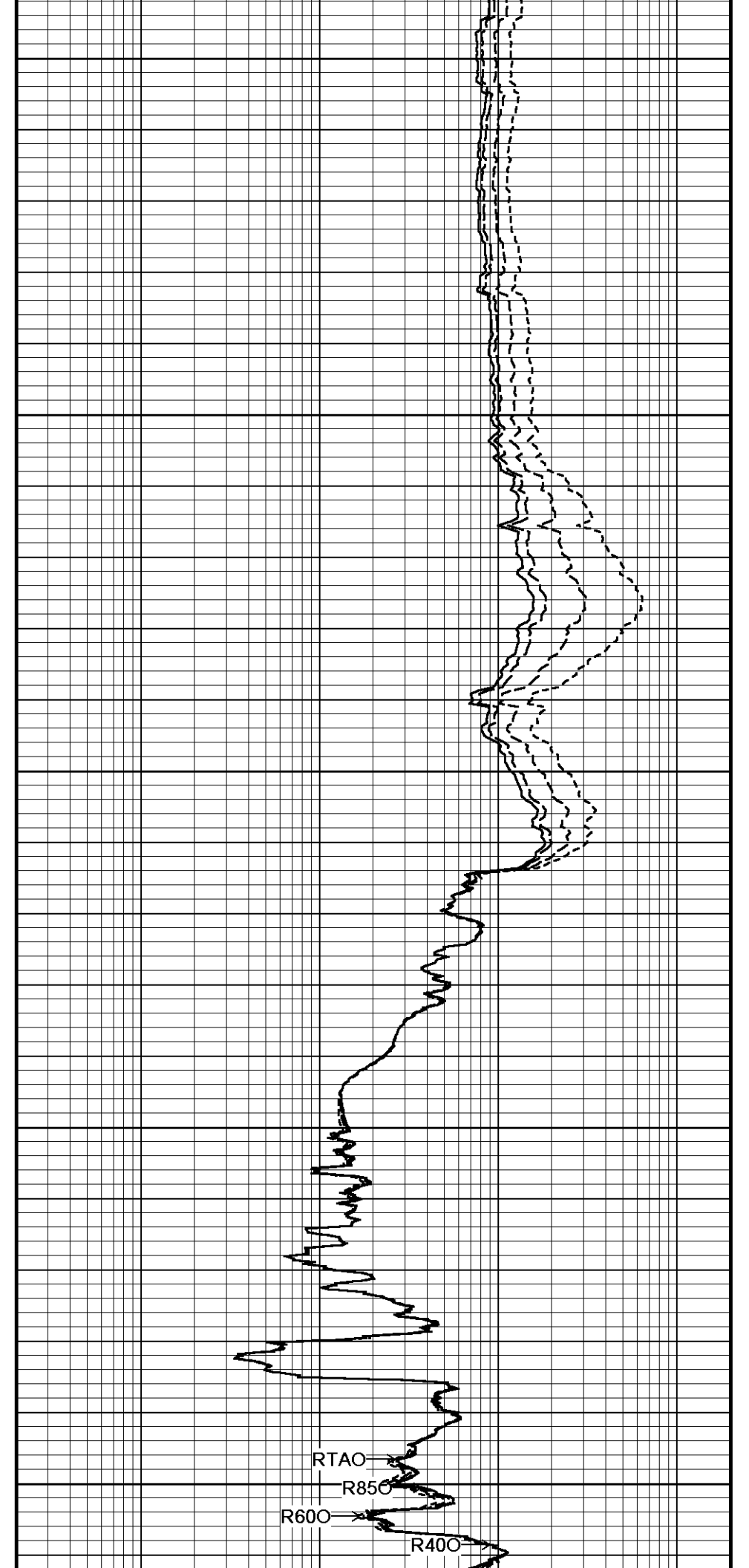
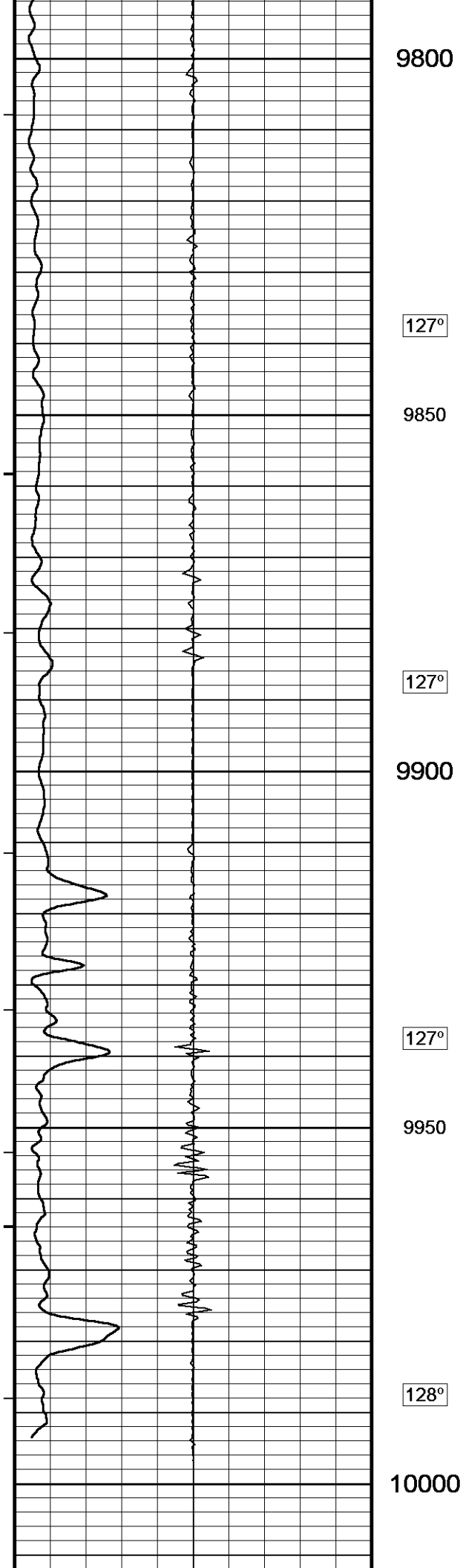
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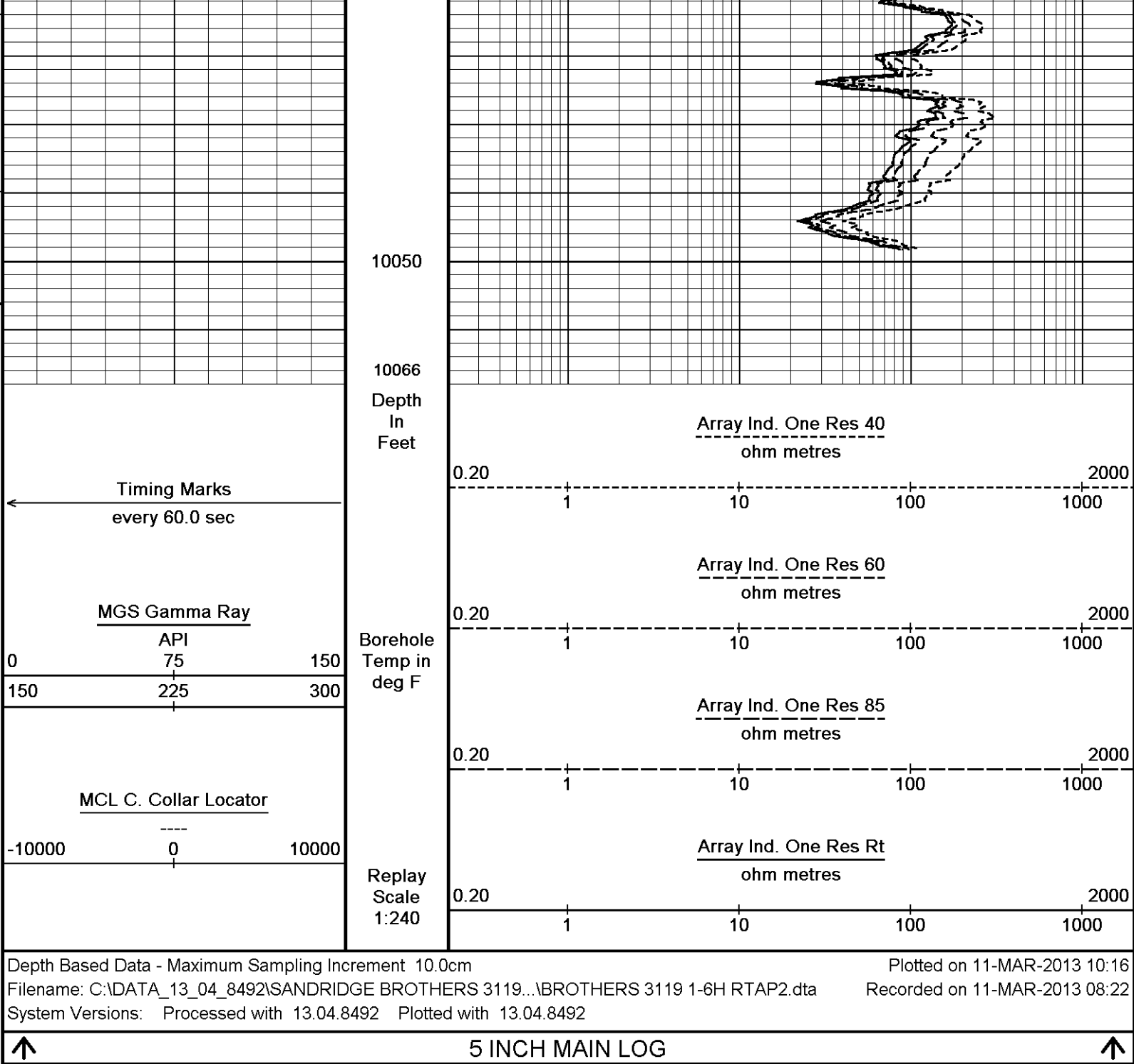
127°

9550









BEFORE SURVEY CALIBRATION		
C:\DATA_13_04_8492\SANDRIDGE BROTHERS 3119 1-6H\BROTHERS 3119 1-6H RTAP2.dta		
General Constants All 000		Last Edited on 06-MAR-2013,20:09
General Parameters		
Mud Resistivity	2.400	ohm-metres
Mud Resistivity Temperature	50.000	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	None	
Dye Parameters		

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

Strain Gauge Constants MMS-E.B 158

Last Edited on 02-MAR-2013,15:44

Atmospheric Pressure	14.70	psi
Serial Number	261995	
Calibration Date	13-Nov-2010	
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.
0.0	-0.116	-0.116	-0.105	-0.106	-0.097
3000.0	5.065	5.068	5.080	5.083	5.094
6000.0	10.257	10.263	10.277	10.282	10.296
9000.0	15.460	15.466	15.484	15.490	15.509
12000.0	20.673	20.678	20.703	20.707	20.734
15000.0	25.900		25.935		25.973

SP Calibration MGS-C.J 142

Field Calibration on 02-MAR-2013,15:32

	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 02-MAR-2013,15:32

	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 02-MAR-2013,15:32

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

Field Calibration on 04-MAR-2013 14:33

	Measured	Calibrated (API)
Background	44	29
Calibrator (Gross)	1099	725
Calibrator (Net)	1055	696

Gamma Constants MGS-C.J 142

Last Edited on 06-MAR-2013,19:41

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

Neutron Calibration MDN-B.J 391

Base Calibration on 04-FEB-2013 09:37
Field Check on 09-MAR-2013 22:39

Base Calibration				
	Measured		Calibrated (cps)	
	Near	Far	Near	Far
	3127	94	3714	110
Ratio	33.324		33.764	

Field Calibrator at Base		Calibrated (cps)
		2292
Ratio		0.665

Field Check		Calibrated (cps)
		2101
Ratio		0.668

Neutron Constants MDN-B.J 391

Last Edited on 09-MAR-2013,22:36

Neutron Source Id	N1055
Neutron Log Number	N639

Neutron Log Number	No		
Epithermal Neutron	Density	Caliper	
Caliper Source for Processing	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	

FE Calibration MFE-C.A 395			Base Calibration on 09-MAR-2013,23:07
			Field Check on 09-MAR-2013,23:07
Base Calibration			
	Measured	Calibrated (ohm-m)	
Reference 1	0.0	0.0	
Reference 2	972.5	126.8	
Base Check		279.1	
Field Check		279.1	

FE Constants MFE-C.A 395			Last Edited on
Running Mode	No Sleeve		
MFE K Factor	0.1268		
Caliper Source for FE correction	Bit Size		
Caliper Value for FE correction	2.25	inches	
Rm Source for FE correction	Constant Value		
Temp. for Rm Corr.	MCG External Temperature		
Stand-off	Centred	inches	

Induction Calibration MAI-A.A 166			Base Calibration on 01-MAR-2013,14:03
			Field Check on 09-MAR-2013 22:28
Base Calibration			
Test Loop Calibration	Measured	Calibrated (mmho/m)	
Channel	Low High	Low High	
1	17.4 475.9	9.3 966.2	
2	6.7 390.1	7.6 821.4	
3	3.6 261.4	5.2 566.0	
4	2.0 135.3	2.6 279.2	
Array Temperature	0.0	Deg F	
Channel	Base Check (mmho/m)	Field Check (mmho/m)	
	Low High	Low High	
1		11.1 3816.4	
2		27.9 3457.6	
3		27.7 3027.5	
4		18.9 2043.7	
Deep		17.7 2008.7	
Medium		40.3 3979.9	
Shallow		40.5 5057.7	
Array Temperature		54.2	Deg F

Induction Constants MAI-A.A 166			Last Edited on 11-MAR-2013,08:29
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	0.00	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	
High Resolution Temperature Calibration MAI-A.A 166			
			Field Calibration on 01-MAR-2013,06:39
	Measured	Calibrated(Deg F)	
Lower	0.00	10.00	
Upper	100.00	100.00	
High Resolution Temperature Constants MAI-A.A 166			
			Last Edited on 02-MAR-2013,15:30
Pre-filter Length		11	
Caliper Calibration MPD-B 166			
			Base Calibration on 02-JAN-2013 13:59
			Field Calibration on 04-MAR-2013 14:44
Base Calibration			
Reading No	Measured	Calibrator Size (in)	
1	13888	4.02	
2	22271	6.00	
3	30944	8.03	
4	38940	10.02	
5	48352	12.01	
6	N/A	N/A	
Field Calibration			
	Measured Caliper (in)	Actual Caliper (in)	
	6.10	6.00	
Photo Density Calibration MPD-B 166			
			Base Calibration on 27-FEB-2013,20:31
			Field Check on 09-MAR-2013 22:35
Density Calibration			
Base Calibration			
	Measured	Calibrated (sdu)	
	Near	Far	Near Far
Reference 1	49795	21888	59869 31110
Reference 2	20626	2381	24557 2522
Field Check at Base			
	1172.4	1342.2	
Field Check			
	1166.7	1334.2	
PE Calibration			
Base Calibration			
	Measured	Calibrated	
	WS	WH	Ratio Ratio

Background	212	1049		
Reference 1	20253	49611	0.413	0.369
Reference 2	5714	20492	0.283	0.271

Field Check at Base
211.9 1049.4

Field Check
212.8 1042.6

Density Constants MPD-B 166

Last Edited on 06-MAR-2013,19:42

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	1.00	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 (ft)	
2.71	0.00	
0.00	0.00	
0.00	0.00	
0.00	0.00	
0.00	0.00	
0.00	0.00	
0.00	0.00	
0.00	0.00	

DOWNHOLE EQUIPMENT

C:\DATA_13_04_8492\ISANDRIDGE BROTHERS 3119 1-6H\BROTHERS 3119 1-6H RTAP2.dta

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

MBS-G.A 200v Compact Battery Sub
MBS-G.A 115 LG: 10.61 ft WT: 70.5 lb OD: 2.24 in

Compact Memory Sub E.B
MMS-E.B 158 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 479 LG: 2.17 ft WT: 24.3 lb OD: 2.24 in

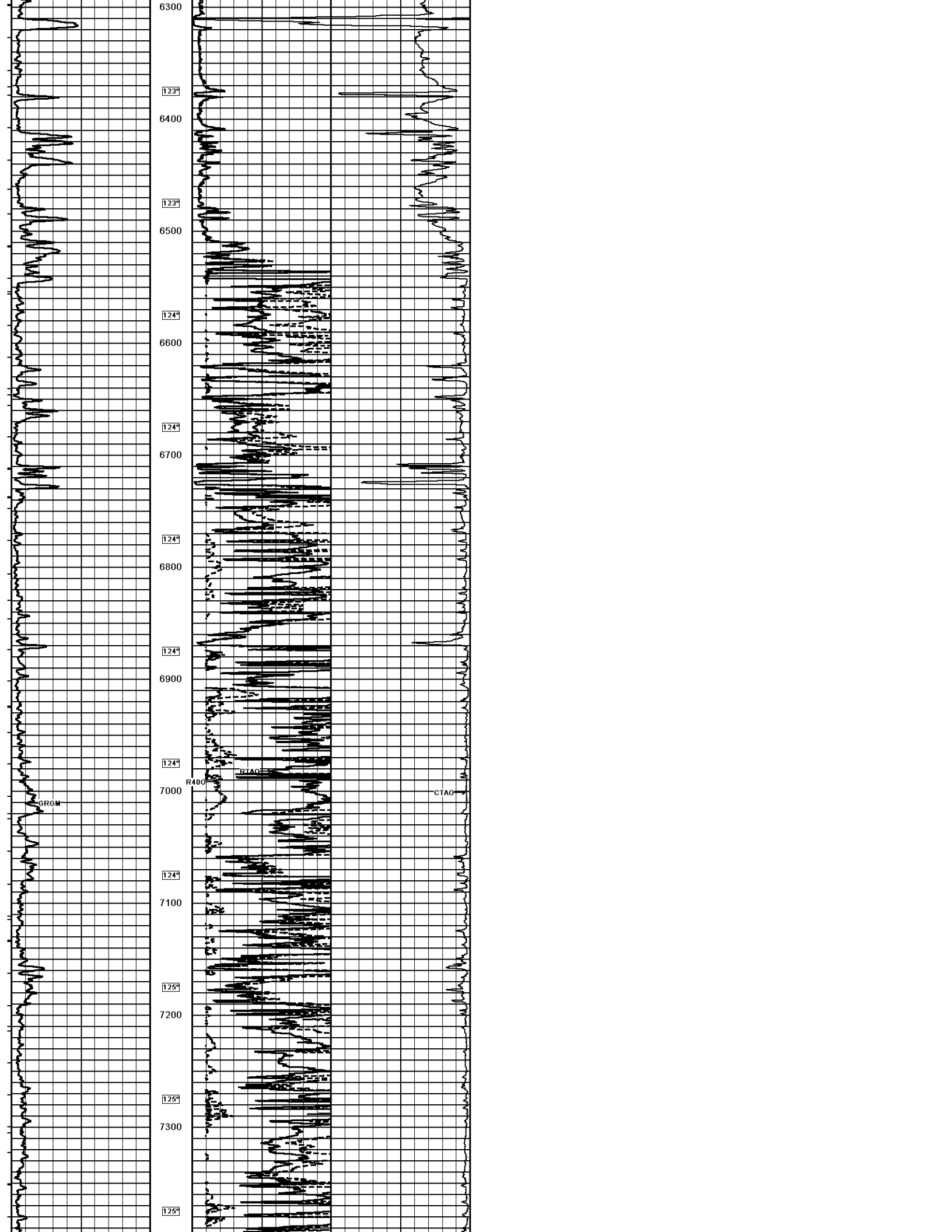
SHA-J.A Compact Swivel Head Adaptor
SHA-J.A 451 LG: 2.30 ft WT: 22.0 lb OD: 2.24 in

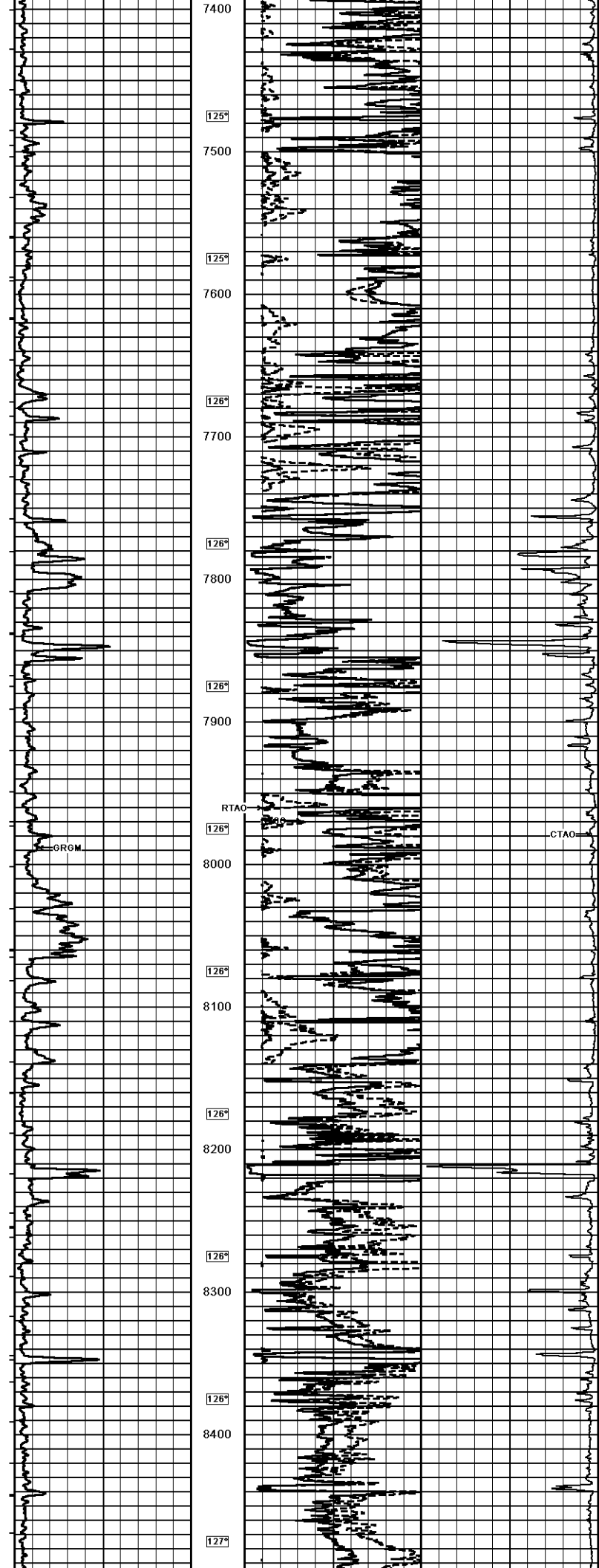
MIS-D.B Compact Inline Bowspring sub
MIS-D.B 608 LG: 5.70 ft WT: 33.1 lb OD: 2.24 in

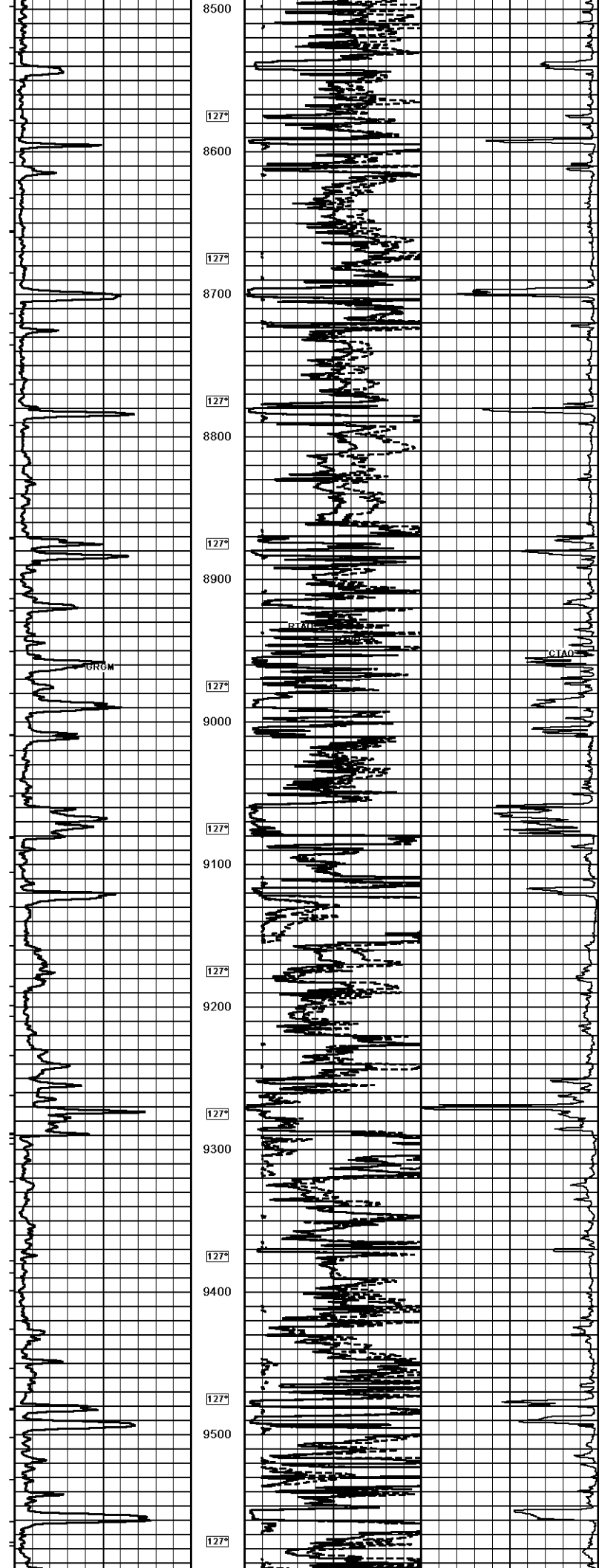


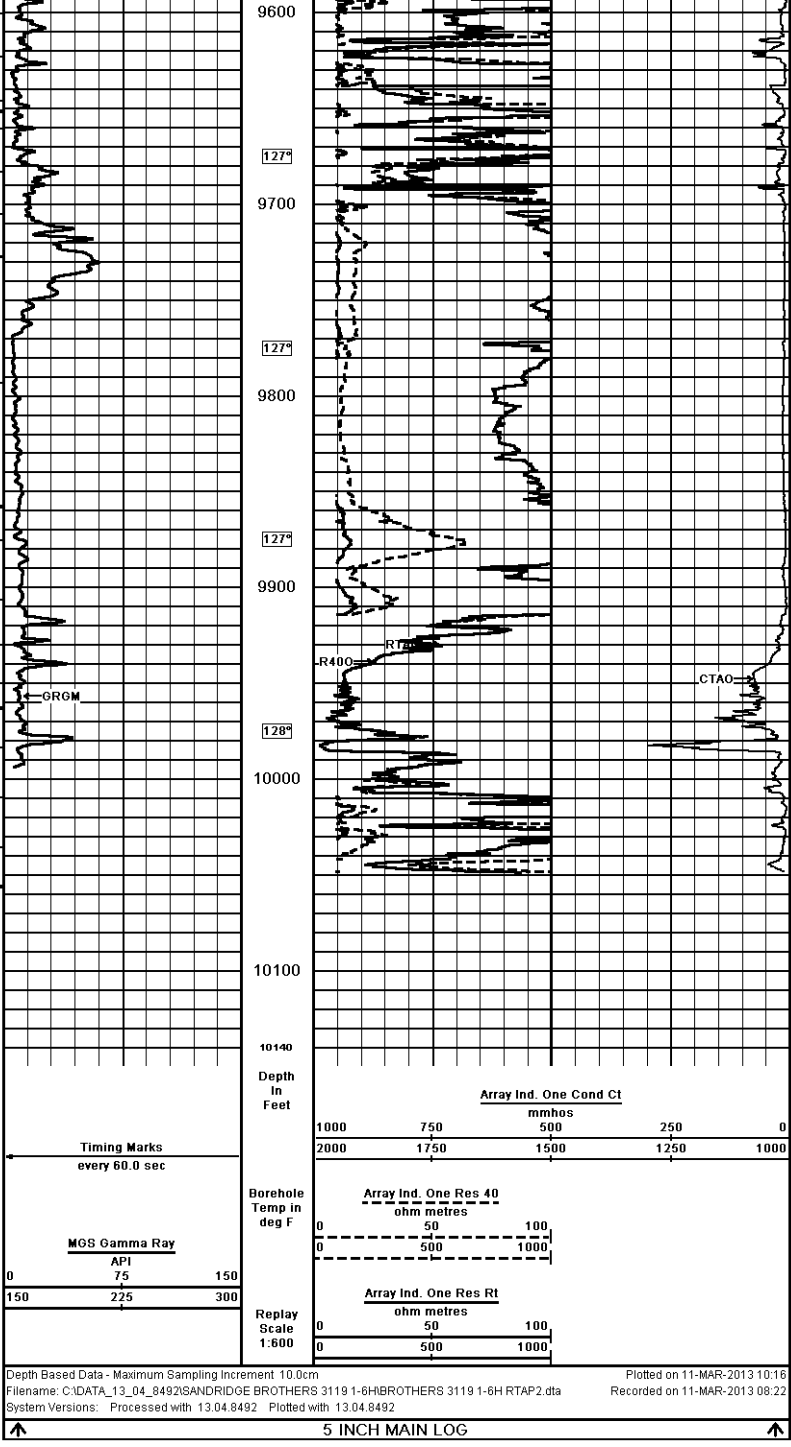
61.76 ft GRGM - MGS Gamma Ray
59.77 ft GSXT - MGS External Temperature

MESSENGER SHUTTLE ARRAY INDUCTION									
1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100
101	102	103	104	105	106	107	108	109	110
111	112	113	114	115	116	117	118	119	120
121	122	123	124	125	126	127	128	129	130
131	132	133	134	135	136	137	138	139	140
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201	202	203	204	205	206	207	208	209	210
211	212	213	214	215	216	217	218	219	220
221	222	223	224	225	226	227	228	229	230
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241	242	243	244	245	246	247	248	249	250
251	252	253	254	255	256	257	258	259	260
261	262	263	264	265	266	267	268	269	270
271	272	273	274	275	276	277	278	279	280
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291	292	293	294	295	296	297	298	299	300
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671	672	673	674	675	676	677	678	679	680
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691	692	693	694	695	696	697	698	699	700
701	702	703	704	705	706	707	708	709	710
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721	722	723	724	725	726	727	728	729	730
731	732	733	734	735	736	737	738	739	740
741	742	743	744	745	746	747	748	749	750
751	752	753	754	755	756	757	758	759	760
761	762	763	764	765	766	767	768	769	770
771	772	773	774	775	776	777	778	779	780
781	782	783	784	785	786	787	788	789	790
791	792	793	794	795	796	797	798	799	800
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811	812	813	814	815	816	817	818	819	820
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1091	1092	1093	1094	1095	1096	1097	1098	1099	1100
1101	1102	1103	1104	1105	1106	1107	1108	1109	1110
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1131	1132	1133	1134	1135	1136	1137	1138	1139	1140
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1171	1172	1173	1174	1175	1176	1177	1178	1179	1180
1181	1182	1183	1184	1185	1186	1187	1188	1189	1190
1191	1192	1193	1194	1195	1196	1197	1198	1199	1200
1201	1202	1203	1204	1205	1206	1207	1208	1209	1210
1211	1212	1213	1214	1215	1216	1217	1218	1219	1220
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1361	1362	1363	1364	1365	1366	1367	1368	1369	1370
1371	1372	1373	1374	1375	1376	1377	1378	1379	1380
1381	1382	1383	1384	1385	1386	1387	1388	1389	1390
1391									









COMPANY		Sandridge Energy			
WELL		Brothers 3119 1-6H			
FIELD		Six Moons			
PROVINCE/COUNTY		Comanche			
COUNTRY/STATE		U.S.A./ Kansas			
Elevation Kelly Bushing	2188.00	feet	First Reading	10048.00	feet
Elevation Drill Floor	2188.00	feet	Depth Driller	10070.00	feet
Elevation Ground Level	2169.00	feet	Depth Logger	10070.00	feet
 Weatherford					
CML MESSENGER SHUTTLE ARRAY INDUCTION					