Tucker WIRELINE SERVICES

BOREHOLE COMPENSATED SONIC LOG

Company AMERICAN ENERGIES CORPOR
Well #1-11 MASTRE TRUST
Field RITZ-CANTON
County MCPHERSON
State KANSAS
Country USA
API No. 15-113-21346

File No : 56803
Company : AMERICAN ENERGIES CORPORATION
Well : #1-11 MASTRE TRUST
Field : RITZ-CANTON
County : MCPHERSON
State : KANSAS
Country : USA
API No : 15-113-21346

Location :
1980' FSL & 1815' FEL
W2 E2 NW SE

LSD : **Sect :** 11 **Twp :** 19S **Rge :** 2W

Permanent Datum:	GL	**Elevations:**		**Services:**	
Drilling Measured From:	KB	**KB**	1568.00 Ft	GRT	MLT
Log Measured From:	KB	**DF**	1567.00 Ft	CNT	CST
Above Permanent Datum:	9.00 Ft	**GL**	1559.00 Ft	LDT	PIT

Date	2011-05-15						
Run Number	1						
Depth--Driller	3500.0 Ft						
Depth--Logger	3500.0 Ft						
First Reading	3480.0 Ft						
Last Reading	202.0 Ft						
Casing--Driller	202.0 Ft						
Casing--Logger	202.0 Ft						
Bit Size	7.875 In						
Casing Size	8.625 In						
Hole Fluid Type	CHEM						
Density	9.4 LBS/GAL						
Fluid Loss	9.2 CC						
PH/Viscosity	9.0	50.0 SEC					
Sample Source	FLOWLINE						
RM@Measured Temp.	3.000 @ 60 F						
RMF@Measured Temp	3.450 @ 60 F						
RMC@Measured Temp.	2.550 @ 60 F						
Source RMF/RMC	CALCULATED	CALCULATED					
RM@BHT	1.530 @ 122 F						
Time Circulation Stopped							
Max Recorded Temp.	122 F						
Equipment/Base	TRK 127	TULSA					
Recorded By	T. MONTGOMERY						
Witnessed By	D. BARKER						

Bitsize Intervals

Size (In)	Bottom (Ft)
7.875	3500.00

Casing Strings

Size (In)	Weight (Lbs)	Bottom (Ft)
8.625	32.00	202.00

Run Number	1		
Date	2011-05-15		
Date/Time On Bottom			
Depth to Fluid	0.0	Ft	
Salinity	0.000	PPM	
RMF@BHT	1.750 @ 122	F	
RMC@BHT	1.300 @ 122	F	

Run Number 1

Comments

ALL PRESENTATIONS AS PER CUSTOMER REQUEST
GRT, CNT, LDT, MLT, CST AND PIT RUN IN COMBINATION.
CALIPERS ORIENTED ON X-Y AXIS.
2.71 G/CC USED TO CALCULATED POROSITY.
ANNULAR HOLE VOLUME CALCULATED UISING 5.500" PRODUCTION CASING.

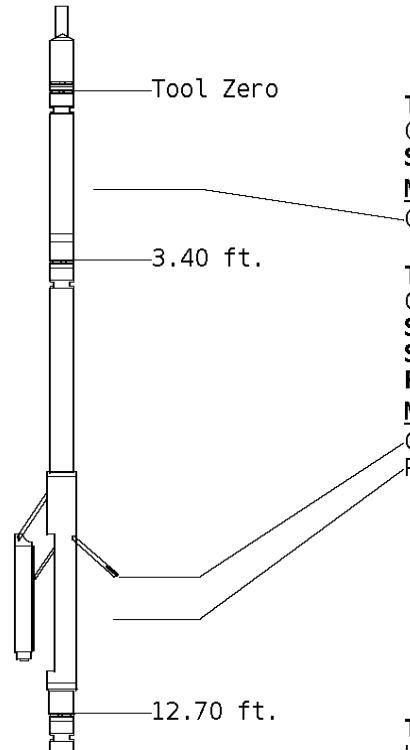
GRT: GRP.
CNT: PHIN, CLCNIN
LDT: PORL, LCORN, PECLN, LDENN, PORLLS, CLLDIN.
MLT: NOR_R, INV_R, MSCLPIN.
CST: PORS, DDCDTF, TT1PF, TT3PF, ITT.
PIT: ILD, ILM, SPU, SFLAEC

OPERATORS:

J.THOMAS

Tool String Schematic

Total Tool Length - 66.95 **ft.**
Maximum Outside diameter - 6.00 **in.**
Net Weight in Air - 1171.00 **lbs.**



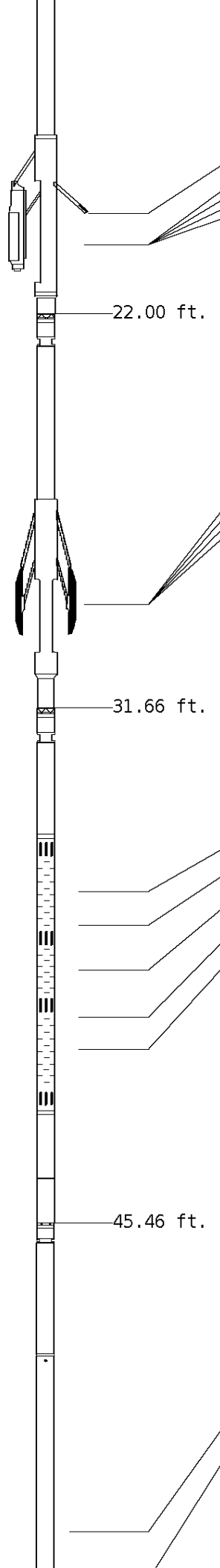
Tool: GRT-B **Length:** 3.40 **ft.** **O.D.** 3.60 **in.**
Gamma Ray Controller
Sonde ID :GRT-BA-121

Measure Point	Tool Offset	Stack Offset	Bottom Offset
GRP	2.00	2.00	64.95

Tool: CNT-AA **Length:** 9.30 **ft.** **O.D.** 4.36 **in.**
Compensated Neutron A Pad on NDT-A
Sonde ID :NDT-CB-152
Source ID :N-1044
Pad ID :CNP-AA-111

Measure Point	Tool Offset	Stack Offset	Bottom Offset
CLCN	6.00	9.40	57.55
PHIN	6.80	10.20	56.75

Tool: LDT-DA **Length:** 9.30 **ft.** **O.D.** 4.80 **in.**



Litho Density D Pad on NDT-A
Sonde ID :PDT-GA-465
Source ID :CSV-587
Pad ID :LDP-DA-065

Measure Point	Tool Offset	Stack Offset	Bottom Offset
CLLD	6.00	18.70	48.25
PEL	7.00	19.70	47.25
PES	7.40	20.10	46.85
LDEN	7.20	19.90	47.05
LCOR	7.20	19.90	47.05

22.00 ft.

Tool: MST-DA **Length:** 9.66 **ft.** **O.D.** 6.00 **in.**
Micro Spherically Focused (IC)
Sonde ID :MST-NG-26

Measure Point	Tool Offset	Stack Offset	Bottom Offset
MSFL	7.60	29.60	37.35
MSCLP	7.60	29.60	37.35
INV	7.60	29.60	37.35
NOR	7.60	29.60	37.35

31.66 ft.

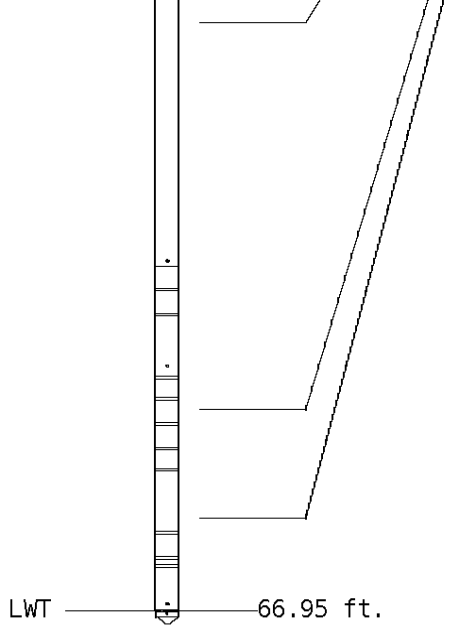
Tool: CST-AD **Length:** 13.80 **ft.** **O.D.** 3.60 **in.**
Open Hole Sonic
Sonde ID :CST-AD-38

Measure Point	Tool Offset	Stack Offset	Bottom Offset
TT1	4.80	36.46	30.49
TT3	5.80	37.46	29.49
CDT	7.30	38.96	27.99
TT4	8.80	40.46	26.49
TT2	9.80	41.46	25.49

45.46 ft.

Tool: PIT-CA **Length:** 21.49 **ft.** **O.D.** 3.62 **in.**
Phased Dual Induction w/ RM & D
Sonde ID :PIT-CA-075

Measure Point	Tool Offset	Stack Offset	Bottom Offset
ILD	8.92	54.38	12.56
ILM	10.10	55.56	11.39
SFLU	17.49	62.95	4.00
SP	20.60	66.06	0.88



Well File: AMERICAN_MASTRE_1-11_APR_15_QUINT
Segment: V1.D1.S5 MN_REPRO
Reference: 0

Scale: 1:240
Acquired: 2011-05/15 13:46 3.2.0-9901
Processed: 2011-05/15 15:08 3.2.0-9901

TENSION
LBS
10000 — 0

BIT SIZE
INCHES (IN)
6 — 16

DENSITY (X) CALIPER
INCHES (IN)
16 — 26
6 — 16

NEUTRON (Y) CALIPER
INCHES (IN)
16 — 26
6 — 16

GAMMA RAY
API UNITS
150 — 300
0 — 150

TT3
uSEC
950 — 50

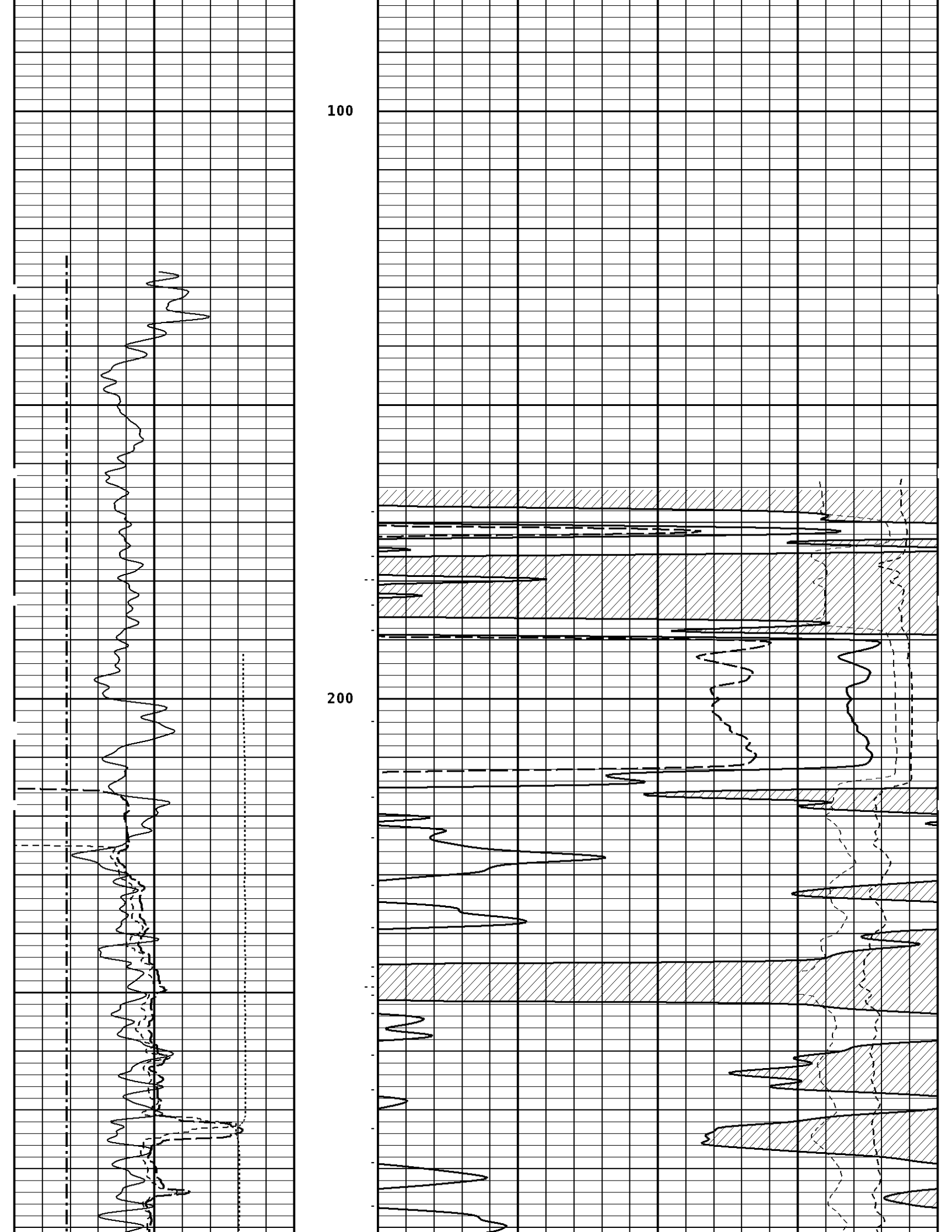
TT1
uSEC
950 — 50

COMPENSATED SONIC TRAVEL TIME
uSEC/FT
240 — 140
140 — 40

SONIC POROSITY
Percent
30 — -10

1:240 MAIN SECTION

File #1.1.5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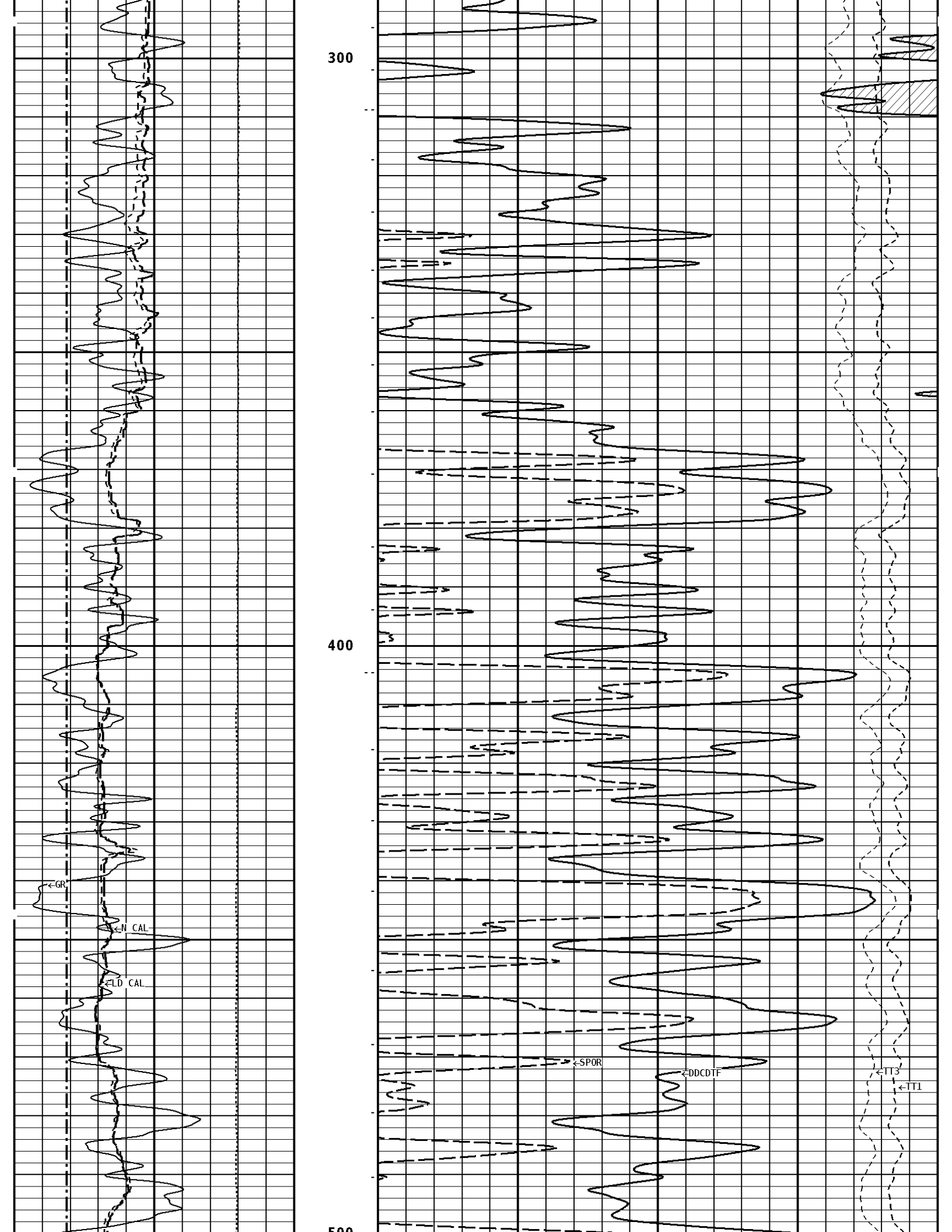
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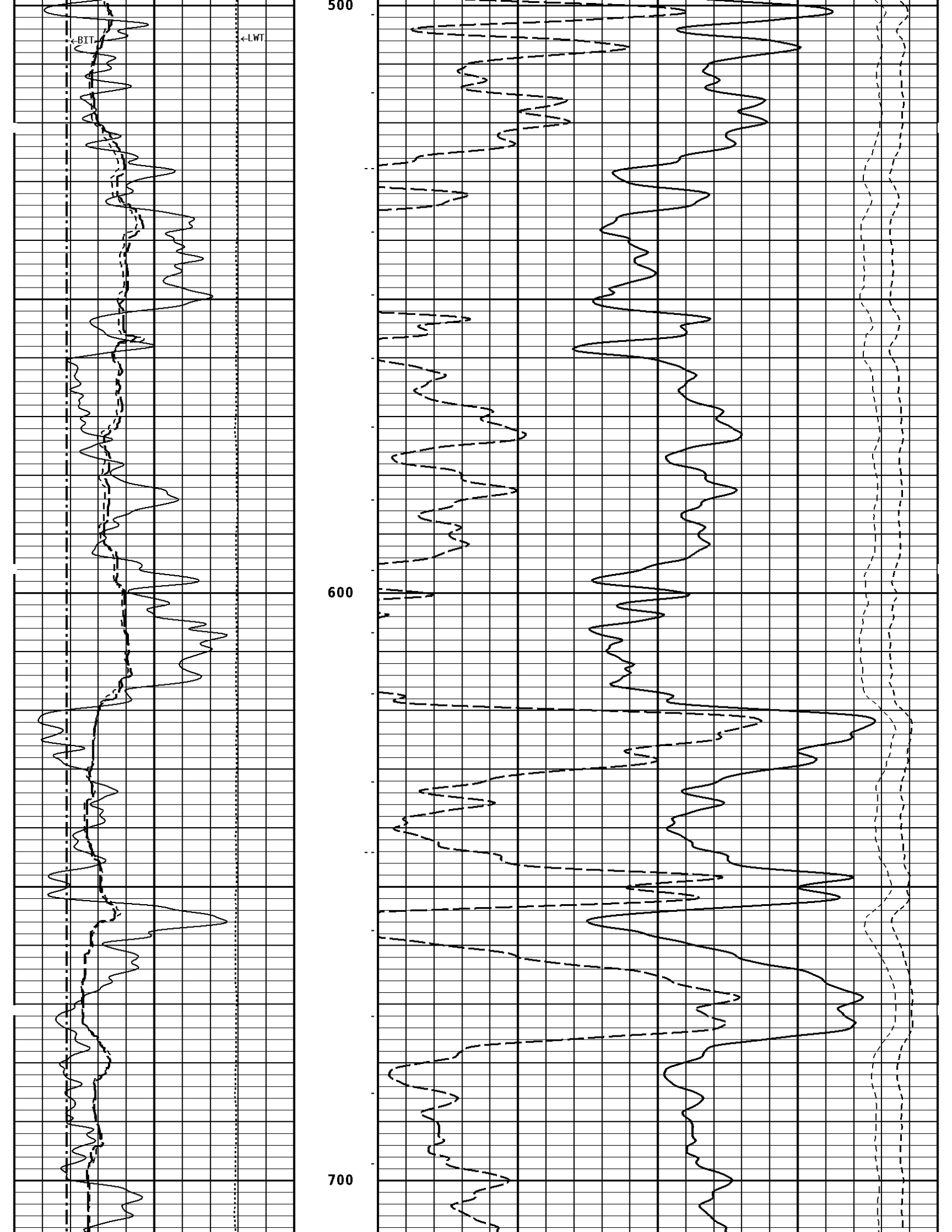
←LD CAL
←SPOR
←DDCDTF
←TT3
←TT1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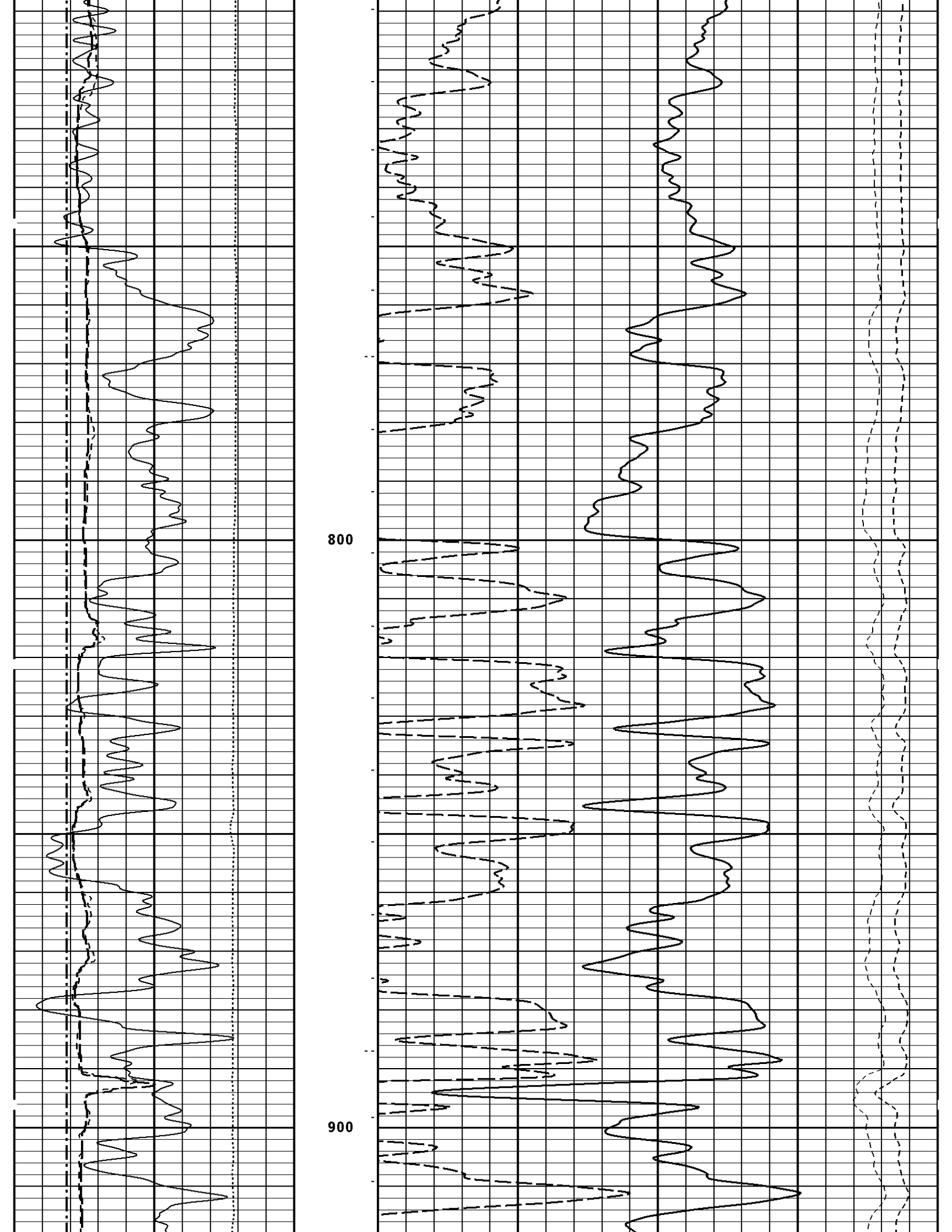
500
600
700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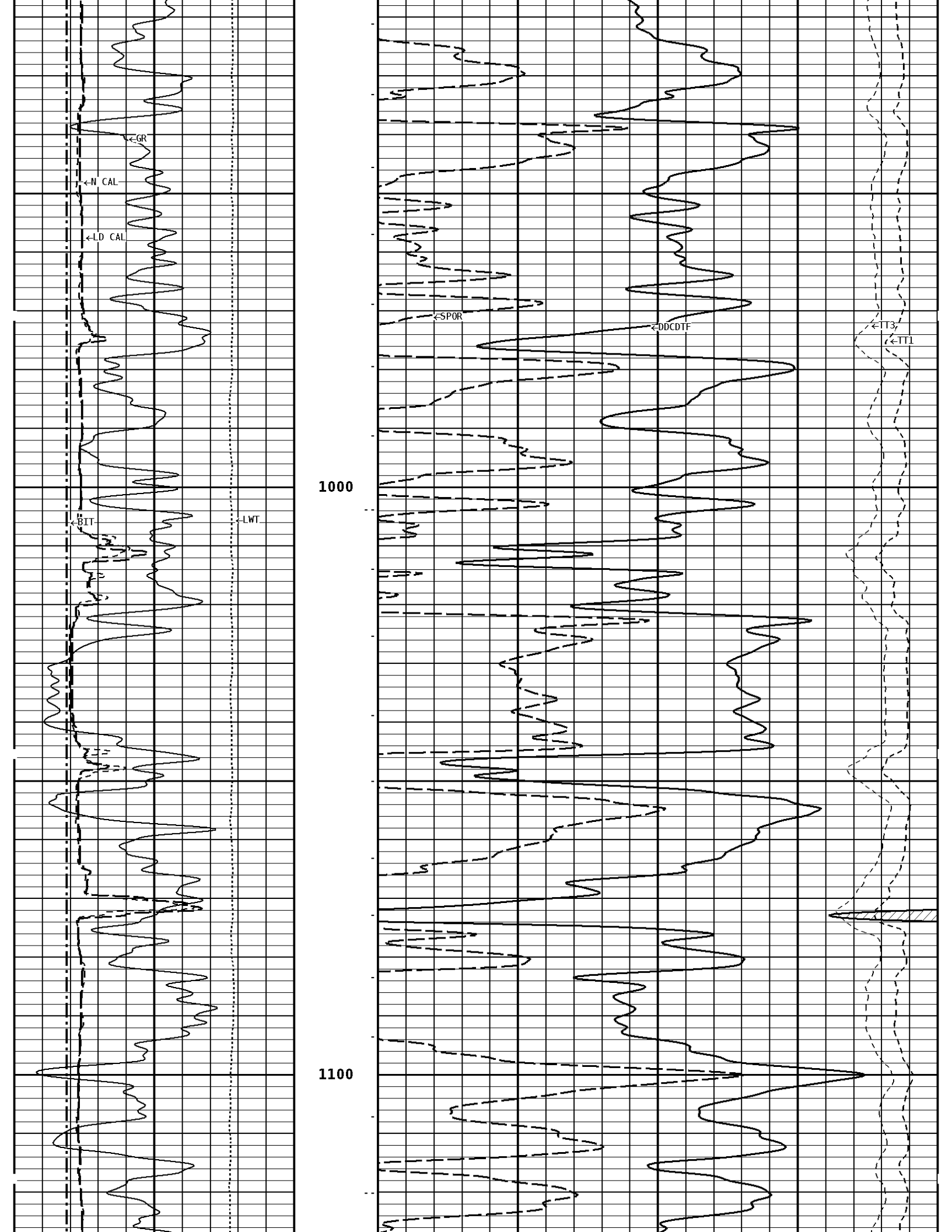
900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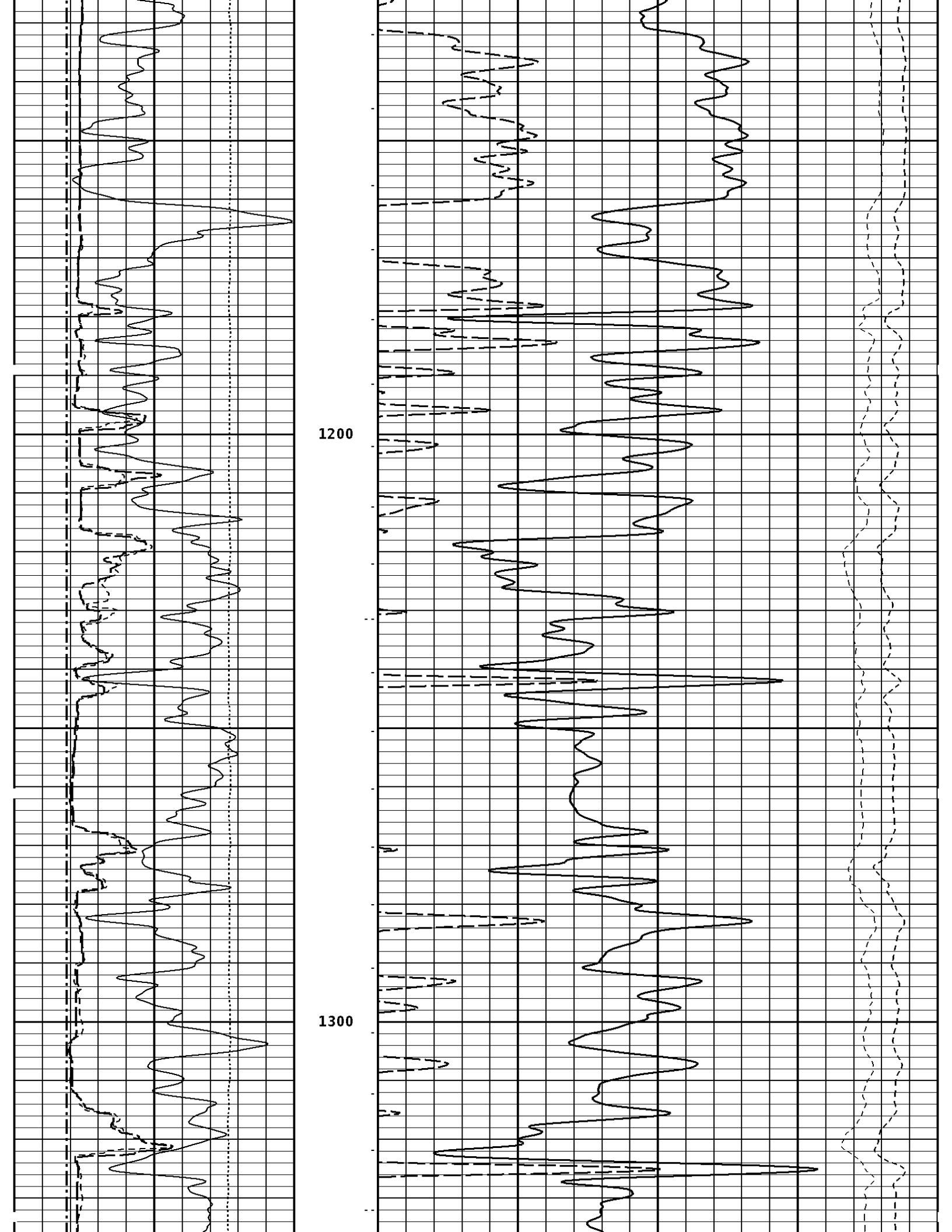
←N CAL
←LD CAL
←SPOR
←DDCDTF
←TT3
←TT1
←BIT
←LWT
1000
1100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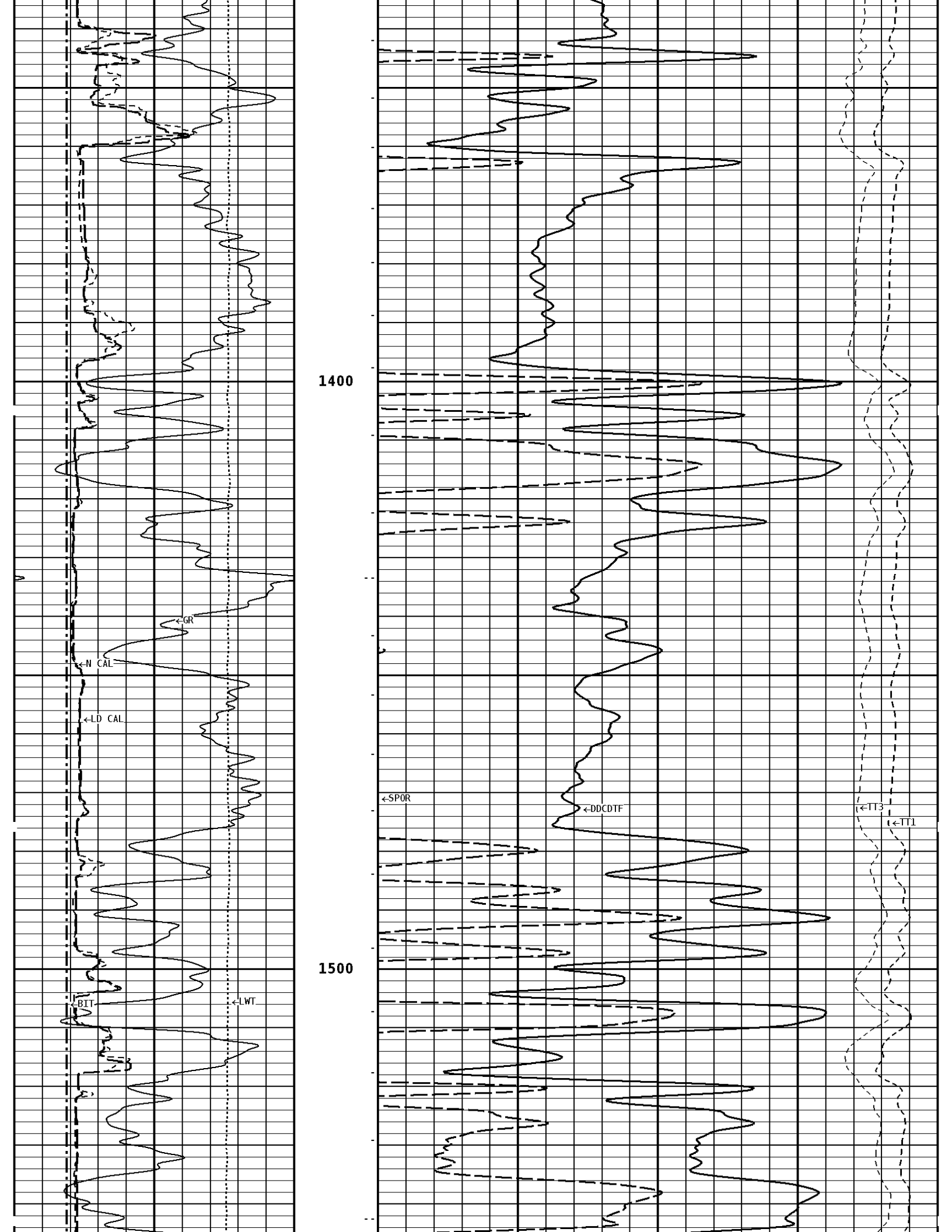
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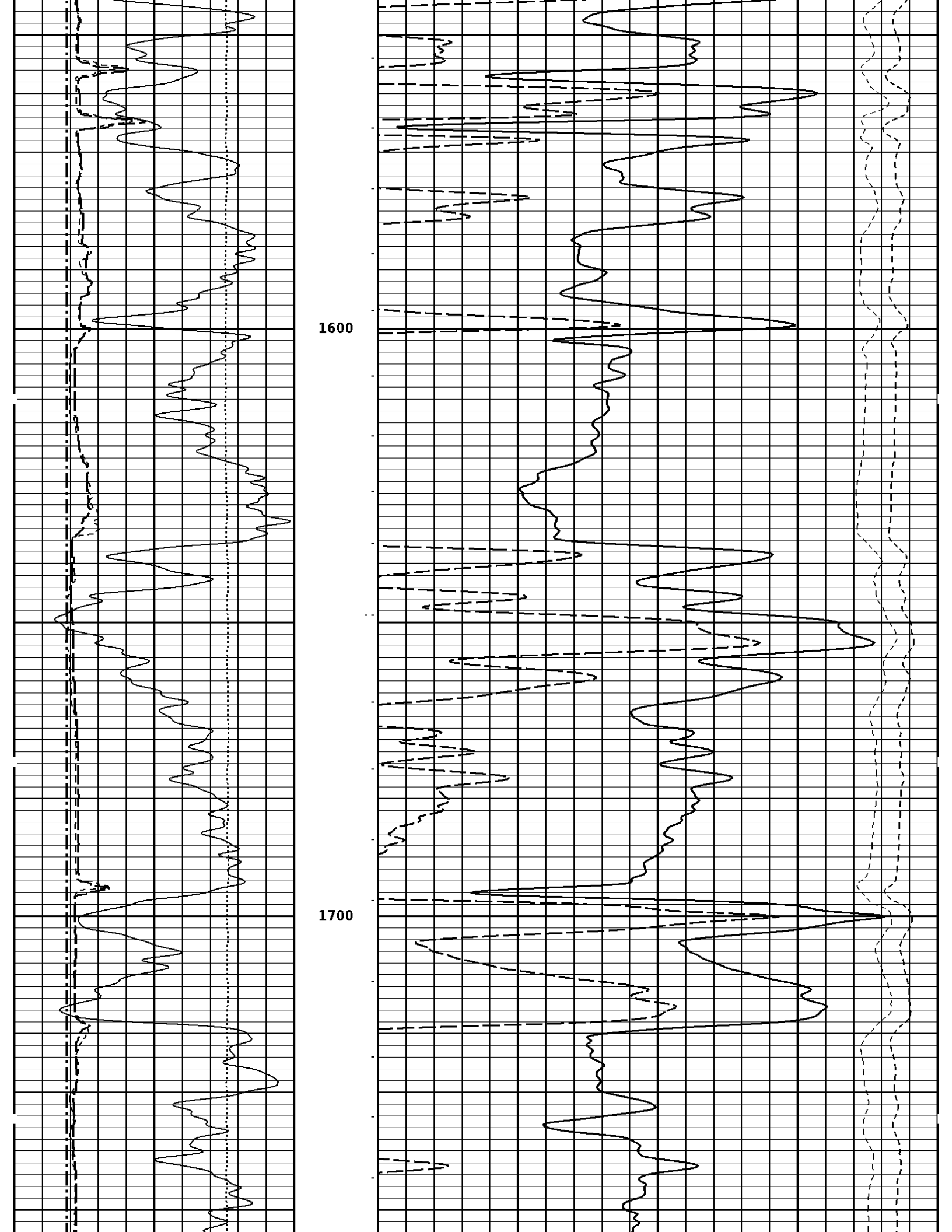
←DDCDTF
←TT3
←TT1
BIT
←LWT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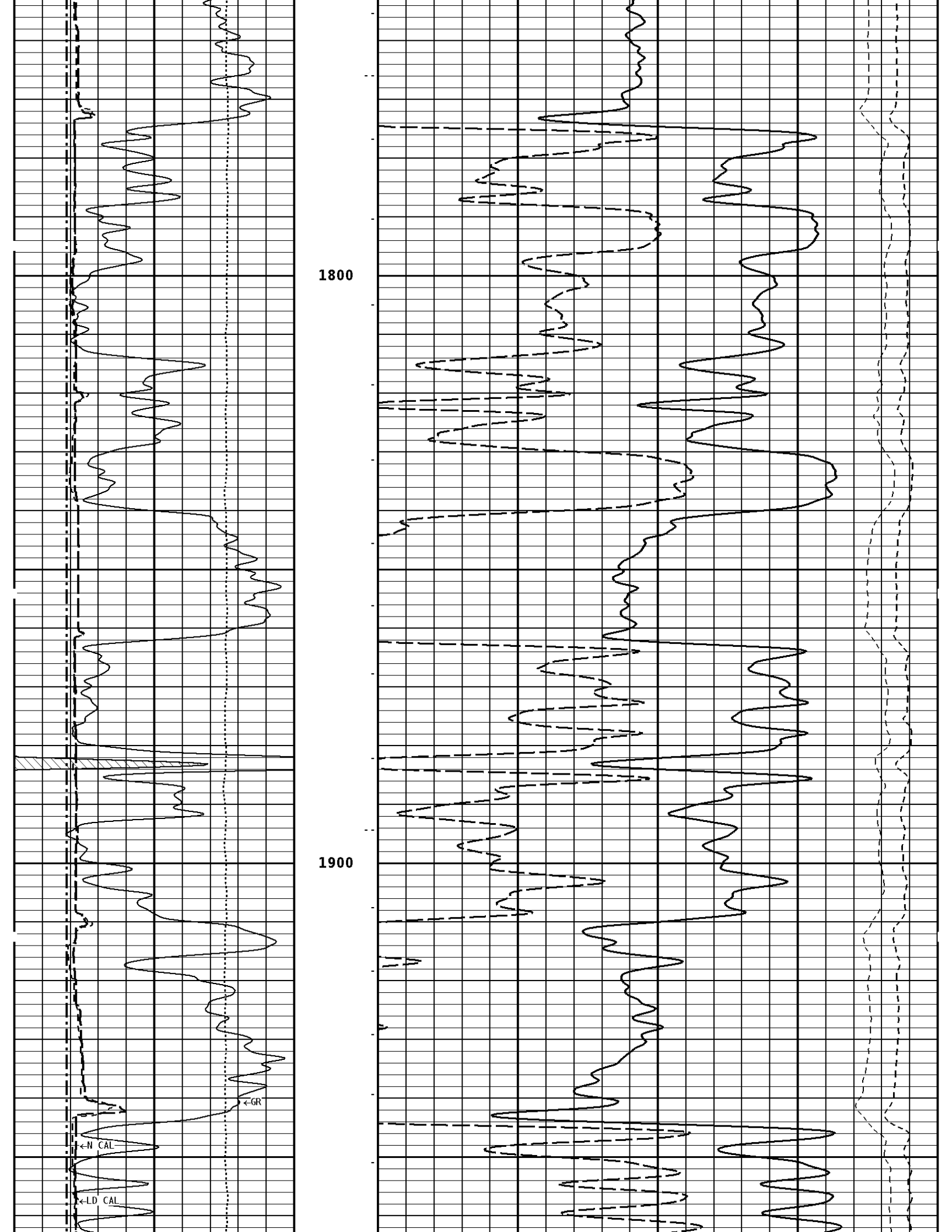
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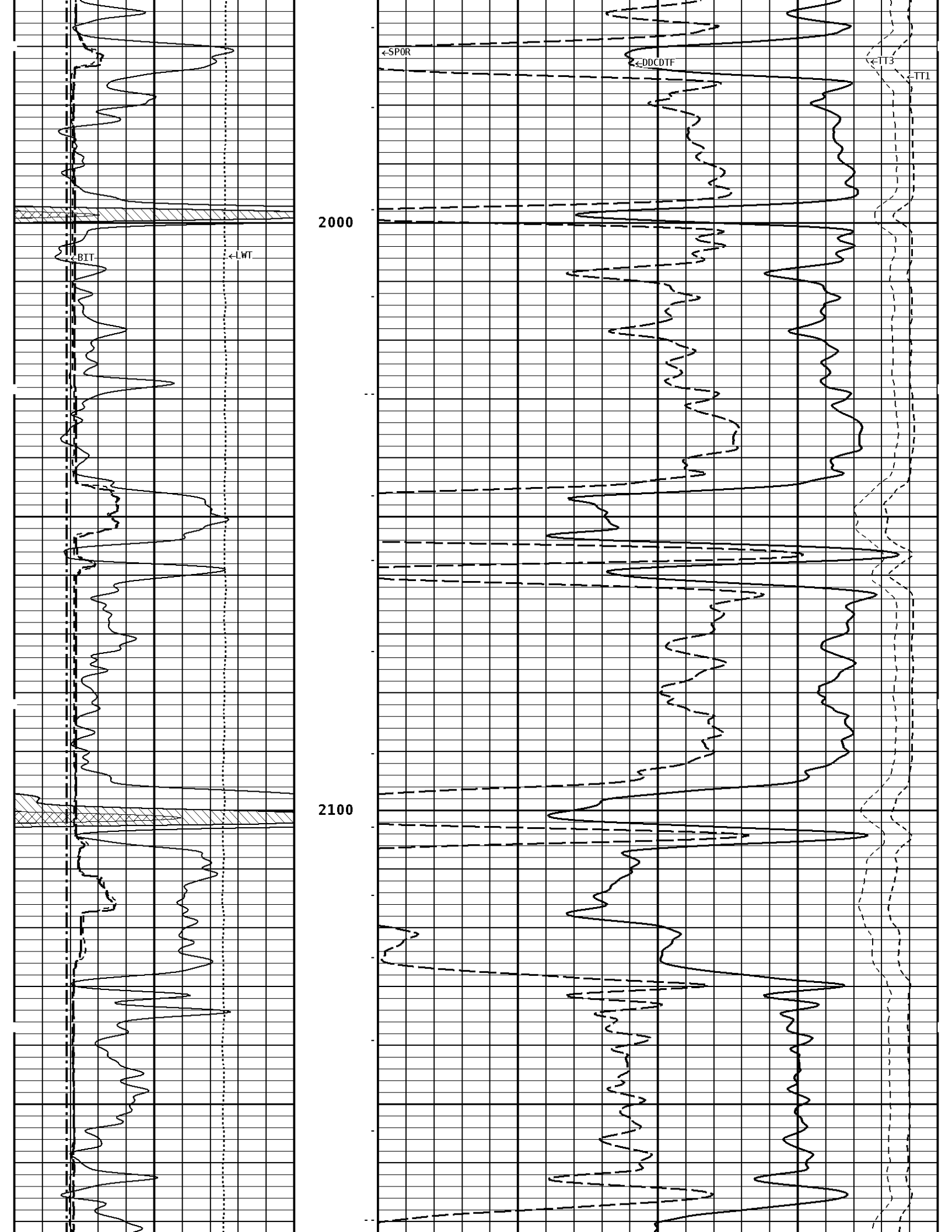
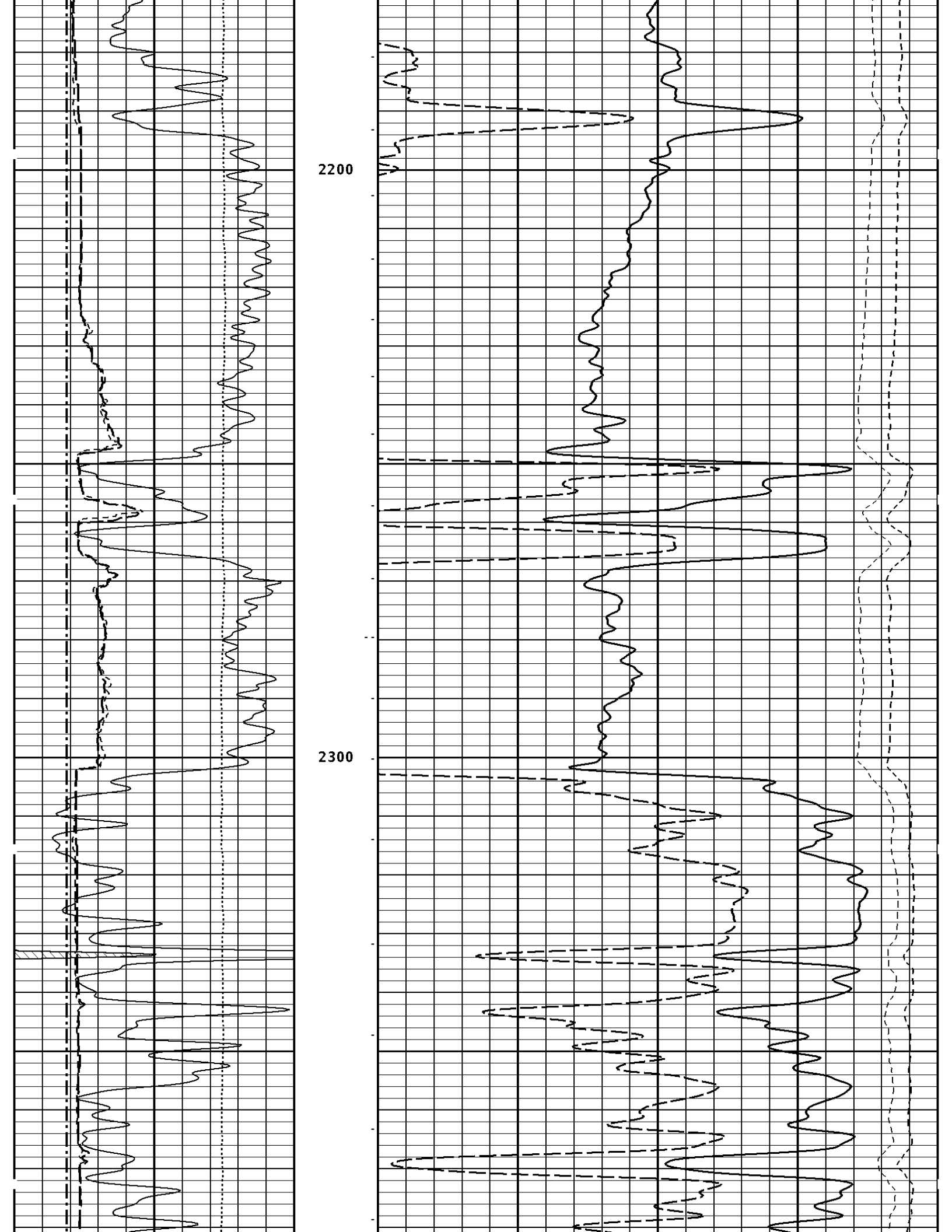
1900
←GR
←N CAL
←LD CAL


SPOR
DDCDTF
TT3
TT1
BIT
LWT
2000
2100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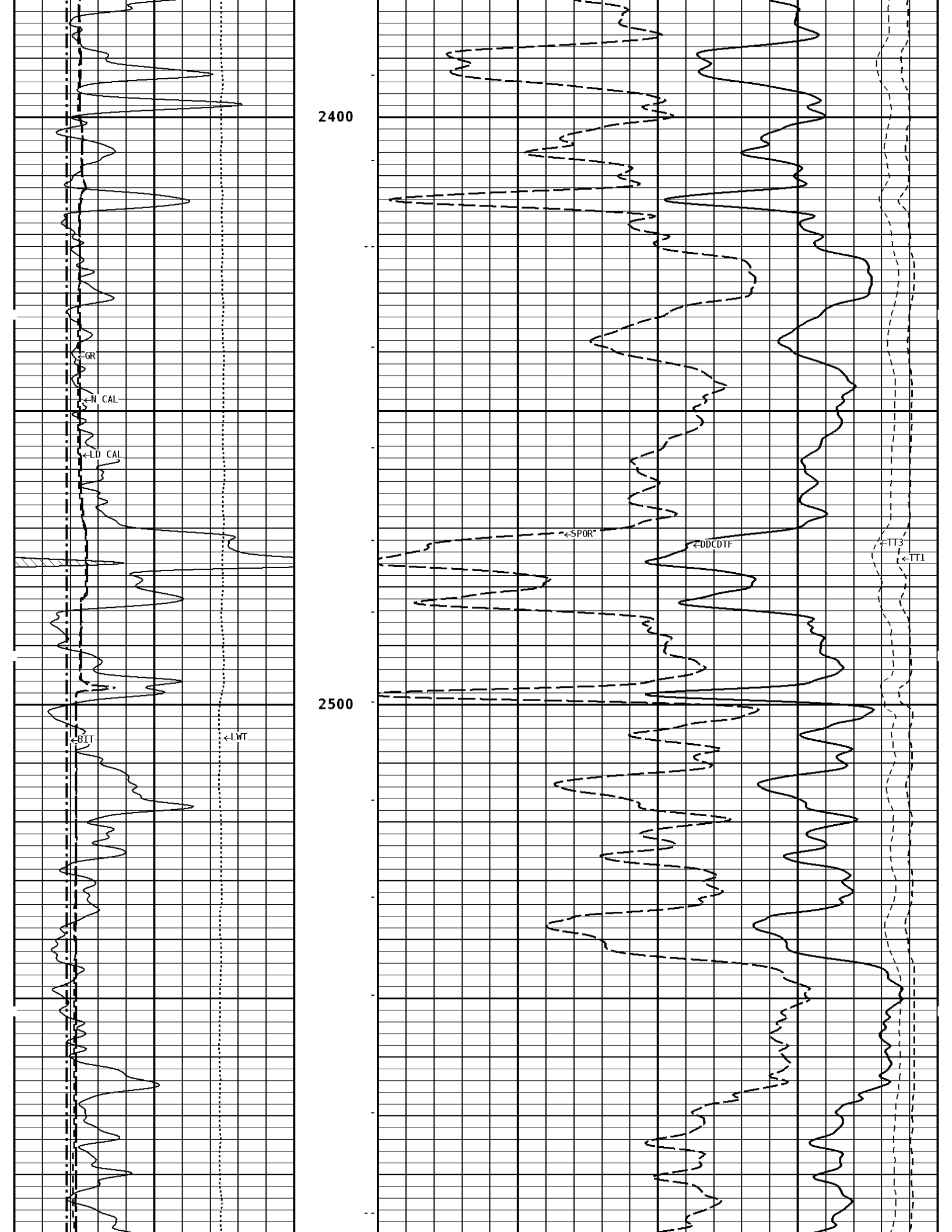
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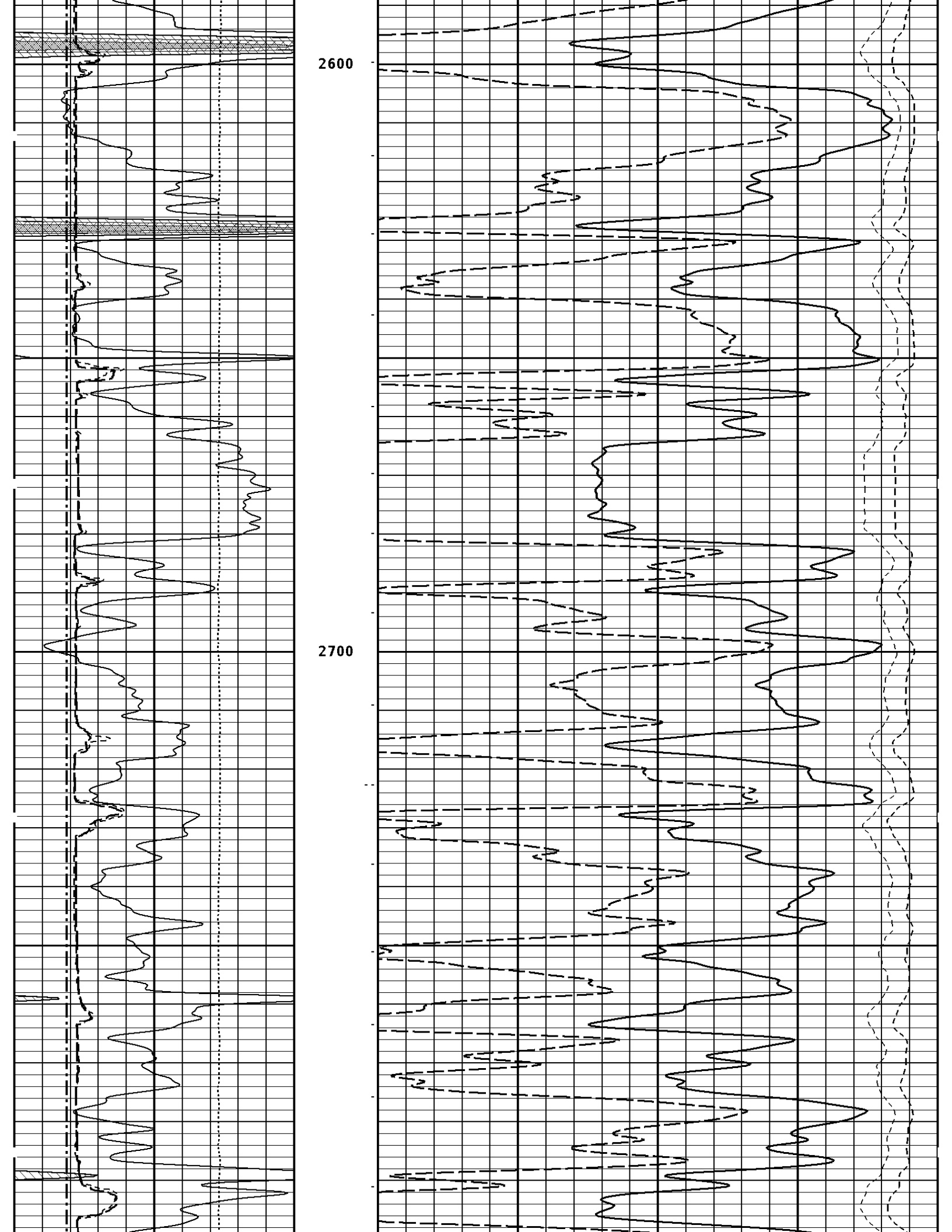
GR
N CAL
LD CAL
SPOR
DDCDTF
TT3
TT1
BIT
LWT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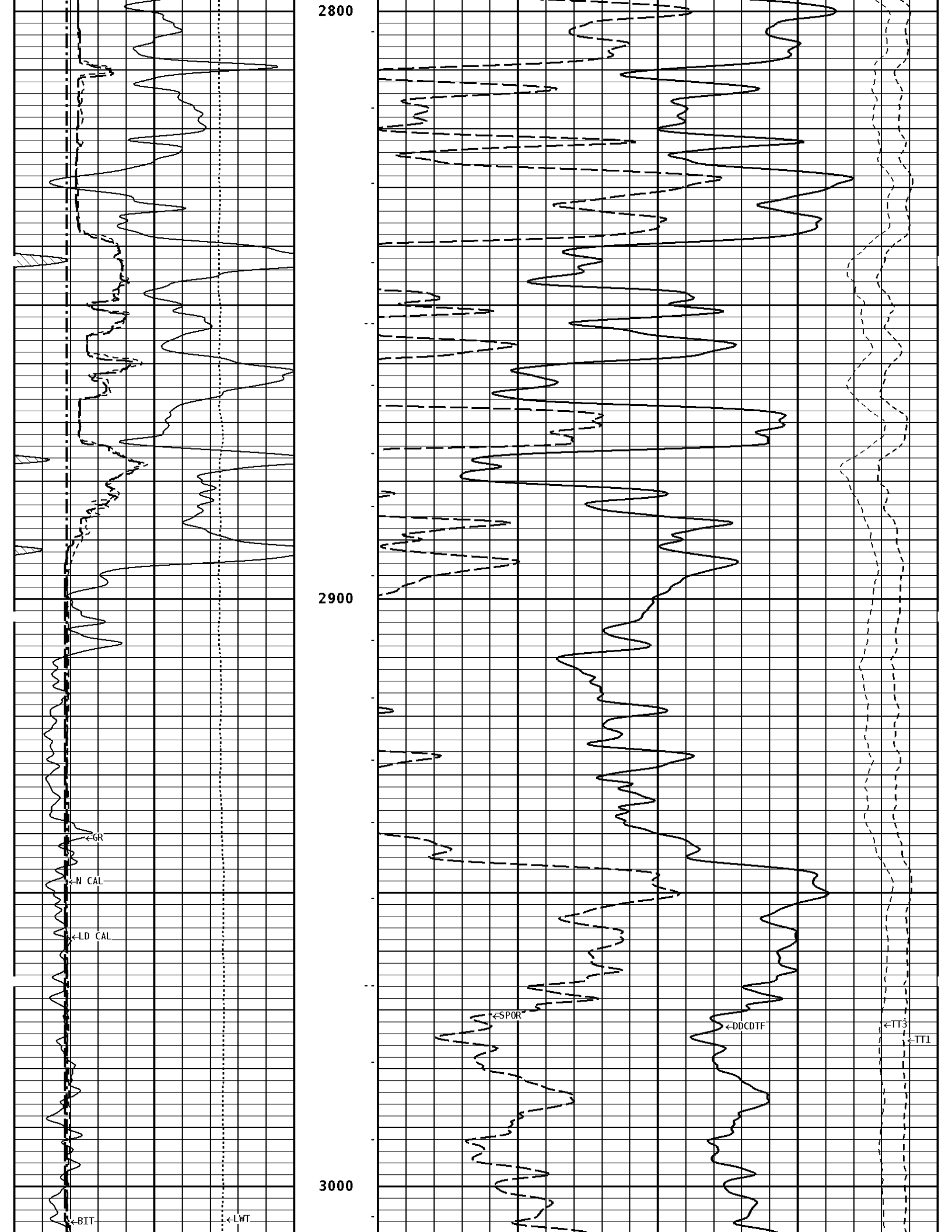
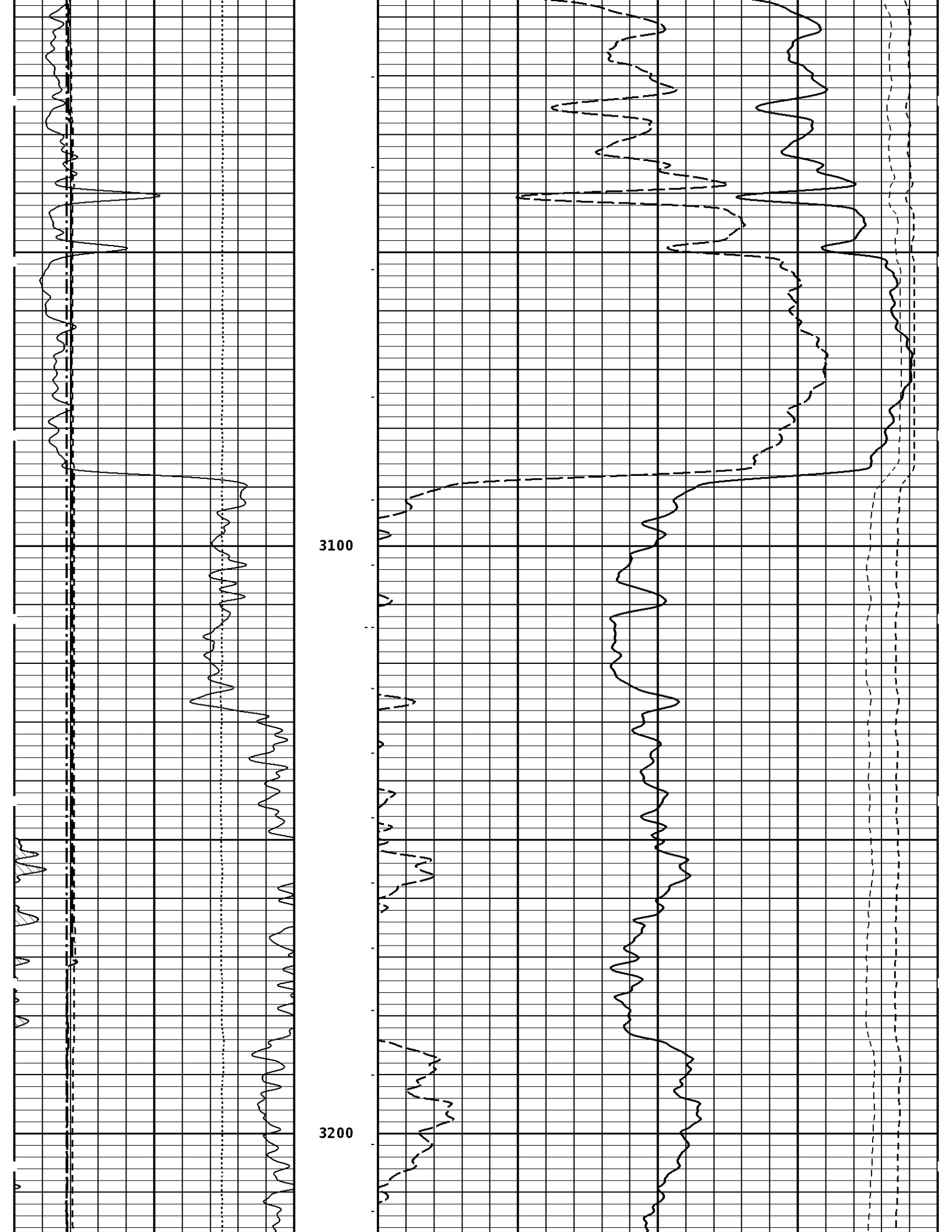

2800
2900
3000
GR
N CAL
LD CAL
BIT
LWT
SPOR
DDCDTF
TT3
TT1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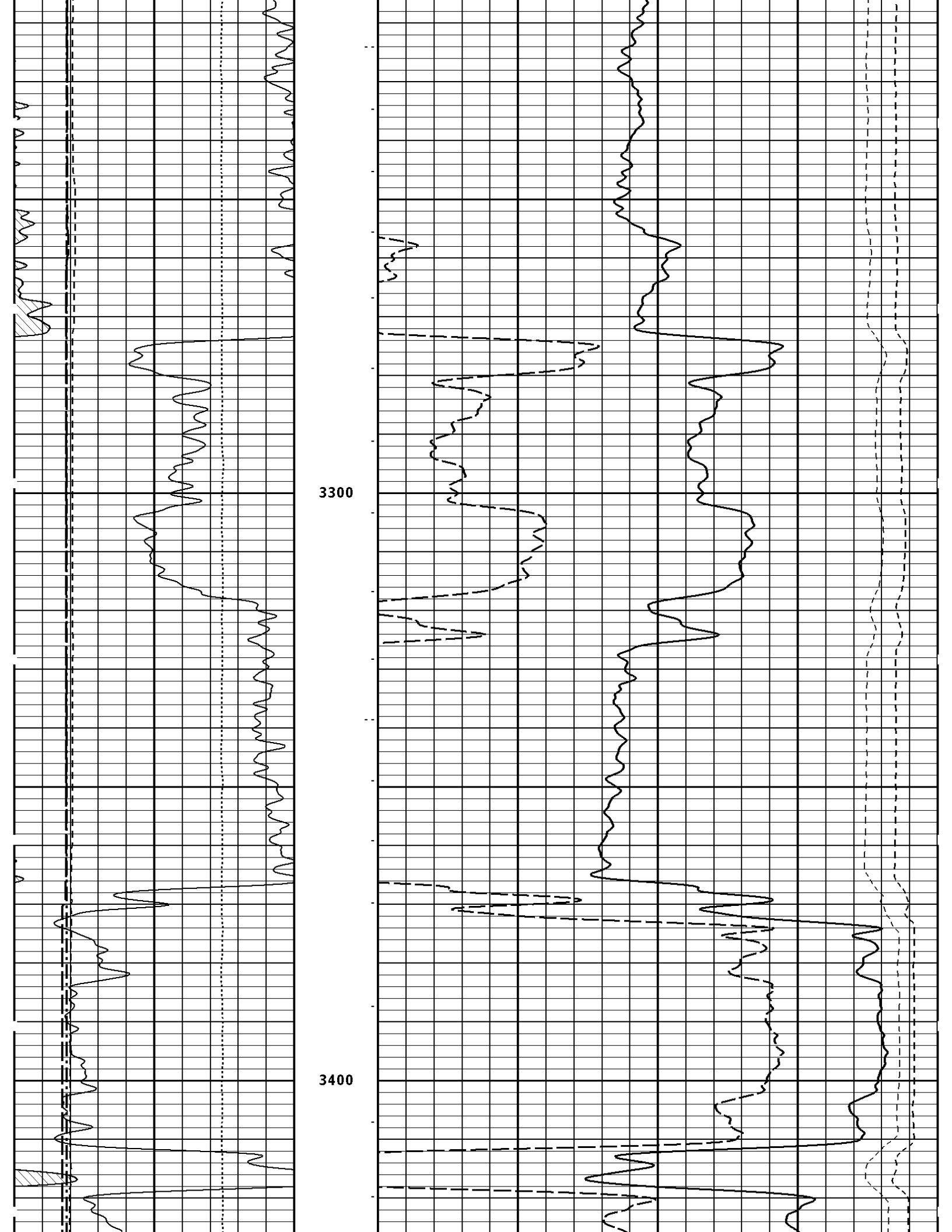
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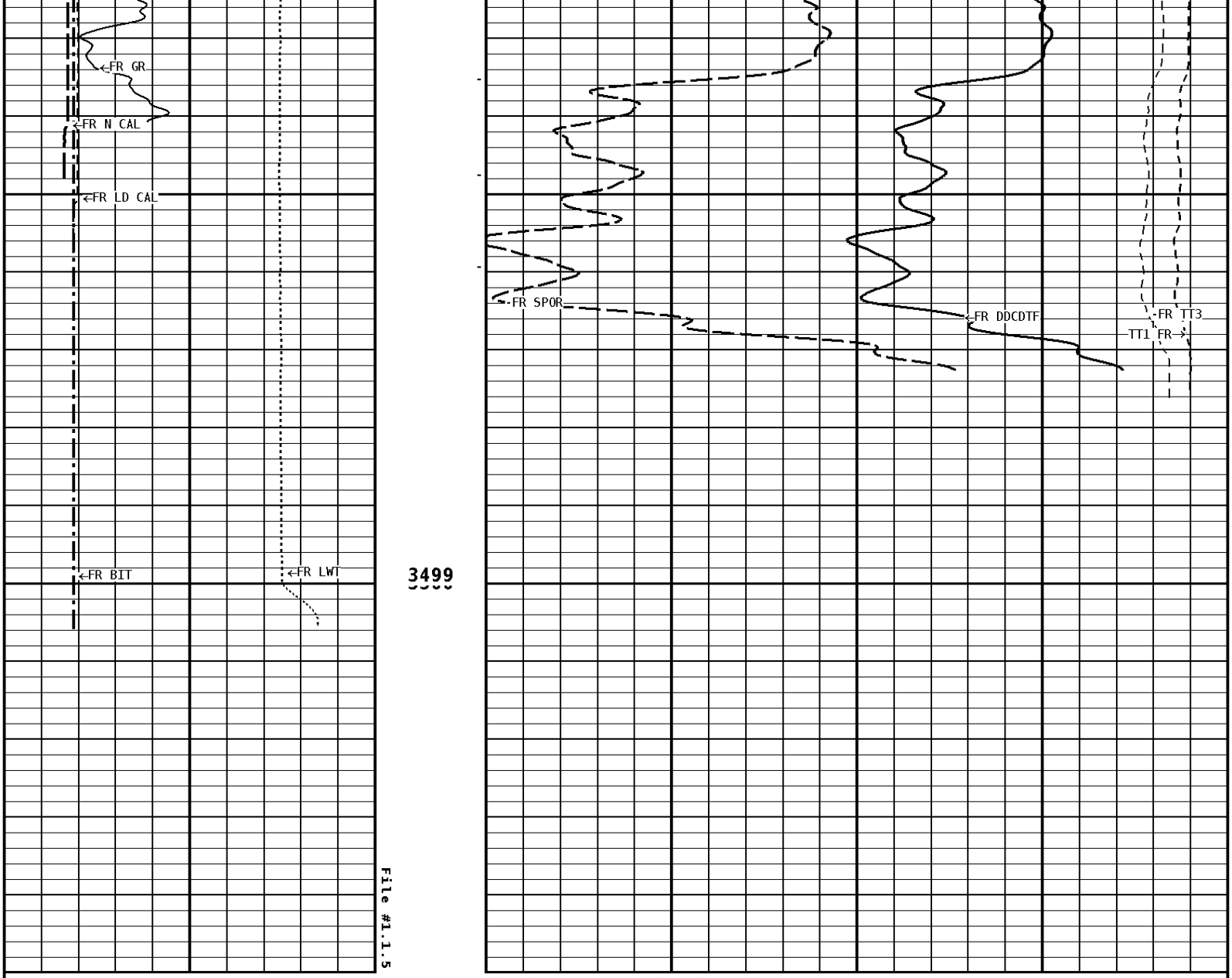


1:240 MAIN SECTION

GAMMA RAY
API UNITS
150 — 300
0 — 150

NEUTRON (Y) CALIPER
INCHES (IN)
16 — 26
6 — 16

DENSITY (X) CALIPER
INCHES (IN)
16 — 26
6 — 16

BIT SIZE
INCHES (IN)
6 — 16

SONIC POROSITY
Percent
30 — -10

COMPENSATED SONIC TRAVEL TIME
uSEC/FT
240 — 140
140 — 40

TT1
uSEC
950 — 50

TT3
uSEC
950 — 50

TENSION
LBS

10000 0

Well File:	AMERICAN_MASTRE_1-11_APR_15_QUINT
Segment:	V1.D1.S4 RPT_REPRO
Reference:	0
Scale:	1:240
Acquired:	2011-05/15 13:27 3.2.0-9901
Processed:	2011-05/15 15:07 3.2.0-9901

TENSION
LBS

10000 0

BIT SIZE
INCHES (IN)

6 16

TT3
uSEC

950 50

DENSITY (X) CALIPER
INCHES (IN)

16 26
6 16

TT1
uSEC

950 50

NEUTRON (Y) CALIPER
INCHES (IN)

16 26
6 16

COMPENSATED SONIC TRAVEL TIME
uSEC/FT

240 140
140 40

GAMMA RAY
API UNITS

150 300
0 150

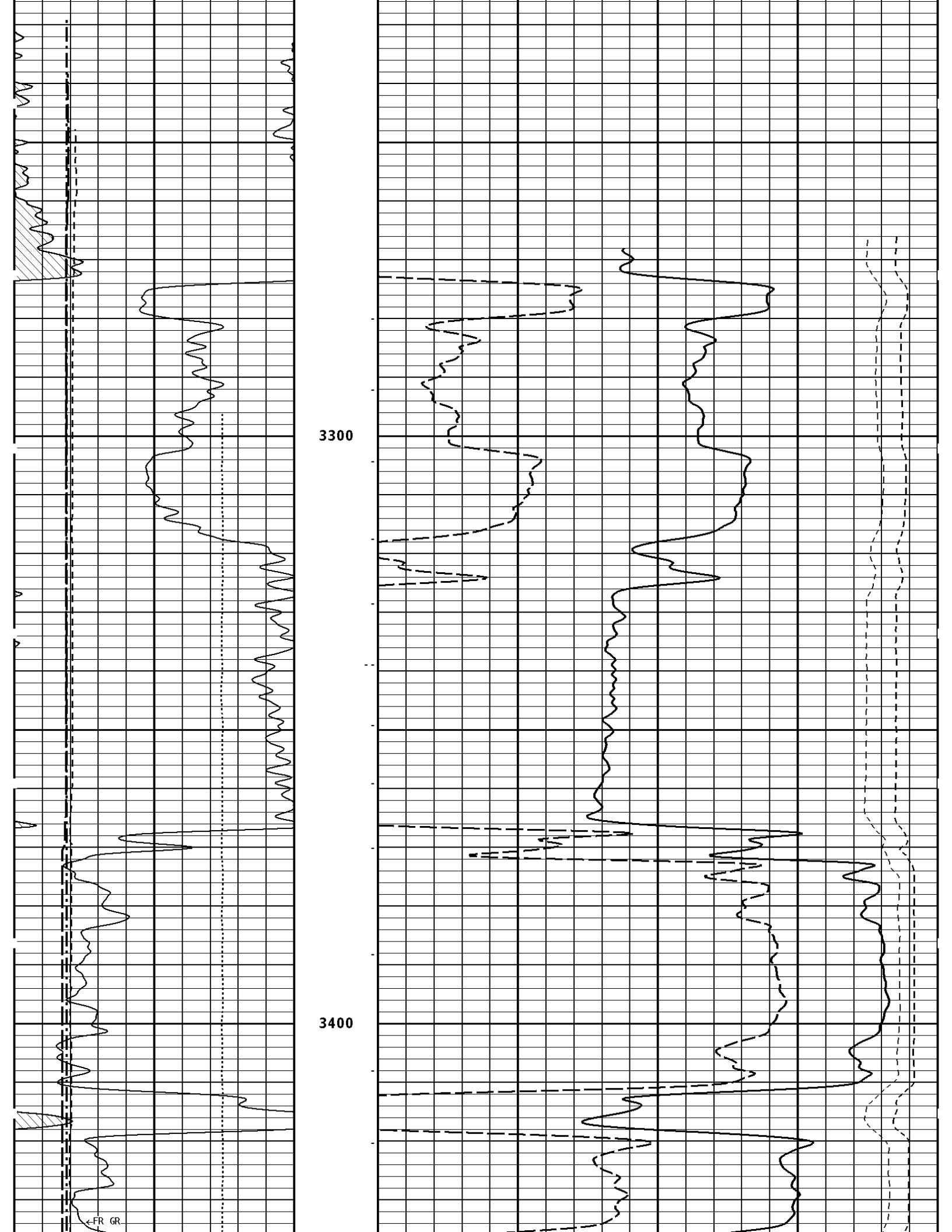
SONIC POROSITY
Percent

30 -10

1:240 REPEAT SECTION

File #1.1.4

3200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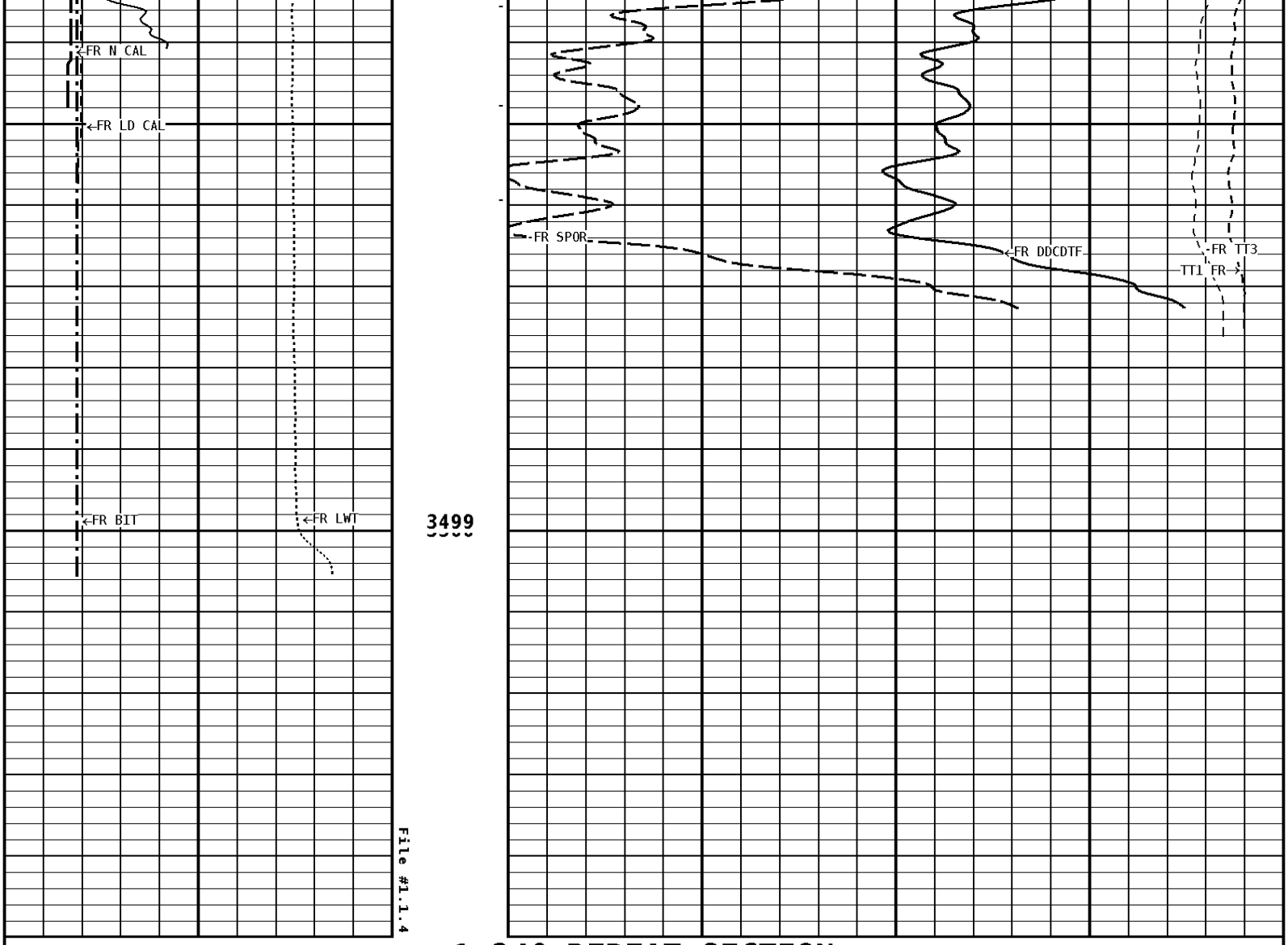

1:240 REPEAT SECTION

GAMMA RAY
API UNITS
150 — 300
0 — 150

NEUTRON (Y) CALIPER
INCHES (IN)
16 — 26
6 — 16

DENSITY (X) CALIPER
INCHES (IN)
16 — 26
6 — 16

BIT SIZE
INCHES (IN)
6 — 16

TENSION
LBS
10000 — 0

SONIC POROSITY
Percent
30 — -10

COMPENSATED SONIC TRAVEL TIME
uSEC/FT
240 — 140
140 — 40

TT1
uSEC
950 — 50

TT3
uSEC
950 — 50

* Calibration Summary *

Shop Calibration
GRT-B

Performed : 15-MAY-2011 Time : 08:17
Sensor Suite : GR-GR5 ID : GRT-BA-121

	Measured Background	Measured Jig	Units	Calibrated Jig	Units
GR	50	360	CPS	175	GRAPI

Shop Calibration
CST-AD

Performed : 14-JUN-2006 Time : 12:26
Sensor Suite : SON-ANA ID : CST-AD-38

Transit Time

T/R Pair	Measured	Calibrated	Units
T1R1	208.5	208.5	uS
T2R2	208.5	208.5	uS
T1R2	322.5	322.5	uS
T2R1	322.5	322.5	uS

Amplitude

T/R Pair	Measured	Calibrated	Units
T1R1	90.00	90.00	mV
T2R2	90.00	90.00	mV
T1R2	78.00	78.00	mV
T2R1	78.00	78.00	mV