Tucker ENERGY SERVICES

DUAL INDUCTION RESISTIVITY LOG

Company ANDERSON ENERGY INC.
Well EATON TRUST #1
Field WILDCAT
County ROOKS
State KANSAS
Country USA
API No. 15-163-24050

File No : TUL-56974
Company : ANDERSON ENERGY INC.
Well : EATON TRUST #1
Field : WILDCAT
County : ROOKS
State : KANSAS
Country : USA
API No : 15-163-24050

Location :
1430' FSL & 510' FEL
SW SE NE SE

LSD : **Sect :** 18 **Twp :** 10S **Rge :** 20W

Permanent Datum:	GL	**Elevations:**		**Services:**	
Drilling Measured From:	KB	**KB**	2151.00 Ft	CNT	CST
Log Measured From:	KB	**DF**	2150.00 Ft	LDT	PIT
Above Permanent Datum:	0.00 Ft	**GL**	2142.00 Ft	MLT	

Date	2012-06-29						
Run Number	1						
Depth--Driller	3900.0	Ft					
Depth--Logger	3900.0	Ft					
First Reading	3899.0	Ft					
Last Reading	310.0	Ft					
Casing--Driller	310.0	Ft					
Casing--Logger	310.0	Ft					
Bit Size	7.875	In					
Casing Size	8.625	In					
Hole Fluid Type	WBM						
Density	9.2	LBS/GAL					
Fluid Loss	7.2	CC					
PH/Viscosity	10.5	58.0 SEC					
Sample Source	MEASURED						
RM@Measured Temp.	1.400 @ 78 F						
RMF@Measured Temp	1.190 @ 78 F						
RMC@Measured Temp.	1.610 @ 78 F						
Source RMF/RMC	CALCULATED	CALCULATED					
RM@BHT	0.970 @ 115 F						
Time Circulation Stopped							
Max Recorded Temp.	115 F						
Equipment/Base	TRUCK 119	TULSA					
Recorded By	S. DAVIS						
Witnessed By	R. MARTIN						

Bitsize Intervals

Size (In)	Bottom (Ft)
7.875	3900.00

Casing Strings

Size (In)	Weight (Lbs)	Bottom (Ft)
8.625	30.00	310.00

Run Number	1		
Date	2012-06-29		
Date/Time On Bottom	2012-06-29 09:00		
Depth to Fluid	0.0	Ft	
Salinity	1800.000	PPM	
RMF@BHT	0.820 @ 115 F		
RMC@BHT	1.110 @ 115 F		

Run Number 1

Comments

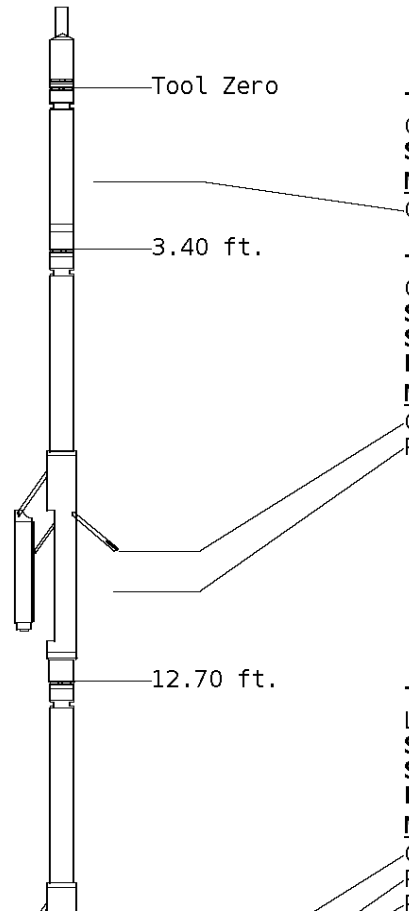
ALL PRESENTATIONS AS PER CUSTOMER REQUEST
GRT, CNT, LDT, MLT, CST AND PIT RUN IN COMBINATION.
CALIPERS ORIENTED ON X-Y AXIS.
2.71 G/CC USED TO CALCULATED POROSITY.
ANNULAR HOLE VOLUME CALCULATED UISING 5.50 PRODUCTION CASING.
CLOSED CALIPERS @ 2010' DUE TO WEIGHT & HOLE CONDITIONS
ANHYDRITE SECTION @ 1640'

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:
B. COLWILL
R. BAKE

Tool String Schematic

Total Tool Length - 67.37 **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-BC-41

Measure Point	Tool Offset	Stack Offset	Bottom Offset
GRP	2.00	2.00	65.37

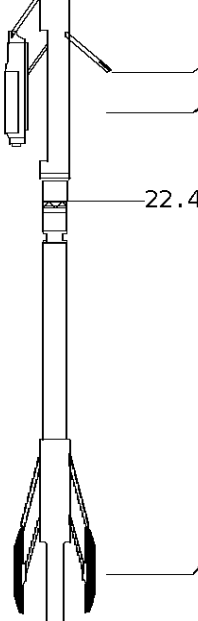
Tool: CNT-AA **Length:** 9.30 **ft.** **O.D.** 4.36 **in.**
Compensated Neutron A Pad on NDT-A
Sonde ID :NDT-BB-123
Source ID :N-1045
Pad ID :CNP-AA-024

Measure Point	Tool Offset	Stack Offset	Bottom Offset
CLCN	6.00	9.40	57.97
PHIN	6.80	10.20	57.17

Tool: LDT-DF **Length:** 9.72 **ft.** **O.D.** 4.80 **in.**
Litho Density D Pad on NDT-F
Sonde ID :PDT-GA-464
Source ID :CSV-B45
Pad ID :LDP-DA-067

Measure Point	Tool Offset	Stack Offset	Bottom Offset
CLLD	6.42	19.12	48.25
PEL	7.42	20.12	47.25
PES	7.82	20.52	46.85

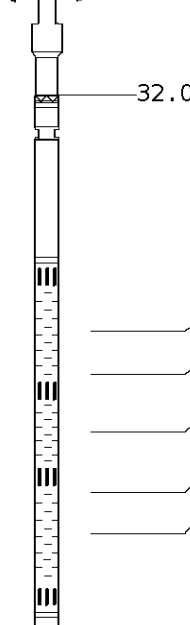
LDEN	7.62	20.32	47.05
LCOR	7.62	20.32	47.05



22.42 ft.

Tool: MST-DA **Length:** 9.66 **ft.** **O.D.** 6.00 **in.**
Micro Spherically Focused (IC)
Sonde ID :MST-DA-36

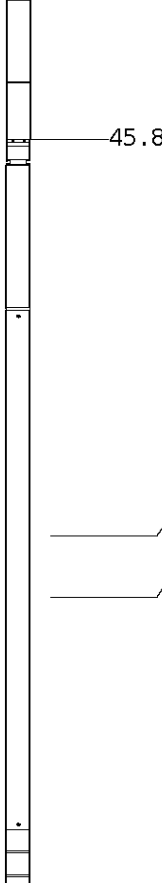
Measure Point	Tool Offset	Stack Offset	Bottom Offset
MSFL	7.60	30.02	37.35
MSCLP	7.60	30.02	37.35
INV	7.60	30.02	37.35
NOR	7.60	30.02	37.35



32.08 ft.

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

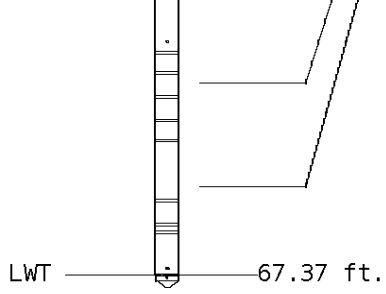
Measure Point	Tool Offset	Stack Offset	Bottom Offset
TT1	4.80	36.88	30.49
TT3	5.80	37.88	29.49
CDT	7.30	39.38	27.99
TT4	8.80	40.88	26.49
TT2	9.80	41.88	25.49



45.88 ft.

Tool: PIT-CA **Length:** 21.49 **ft.** **O.D.** 3.62 **in.**
Phased Dual Induction w/ RM & D
Sonde ID :PIT-AC-022

Measure Point	Tool Offset	Stack Offset	Bottom Offset
ILD	8.92	54.80	12.56
ILM	10.10	55.98	11.39
SFLU	17.49	63.37	4.00
SP	20.60	66.48	0.88



Well File: and-ene-eat-tr-1-quint-jun-29 **Scale:** 1:600
Segment: V1.D1.S5 MN **Acquired:** 2012-06/29 09:23 3.2.0-10932
Reference: 0 **Processed:** 2012-06/29 11:06 3.2.0-10932

RXO/RT
-160 40

TENSION
LBS
10000 0

SPONTANEOUS POTENTIAL
mV
→| |←20

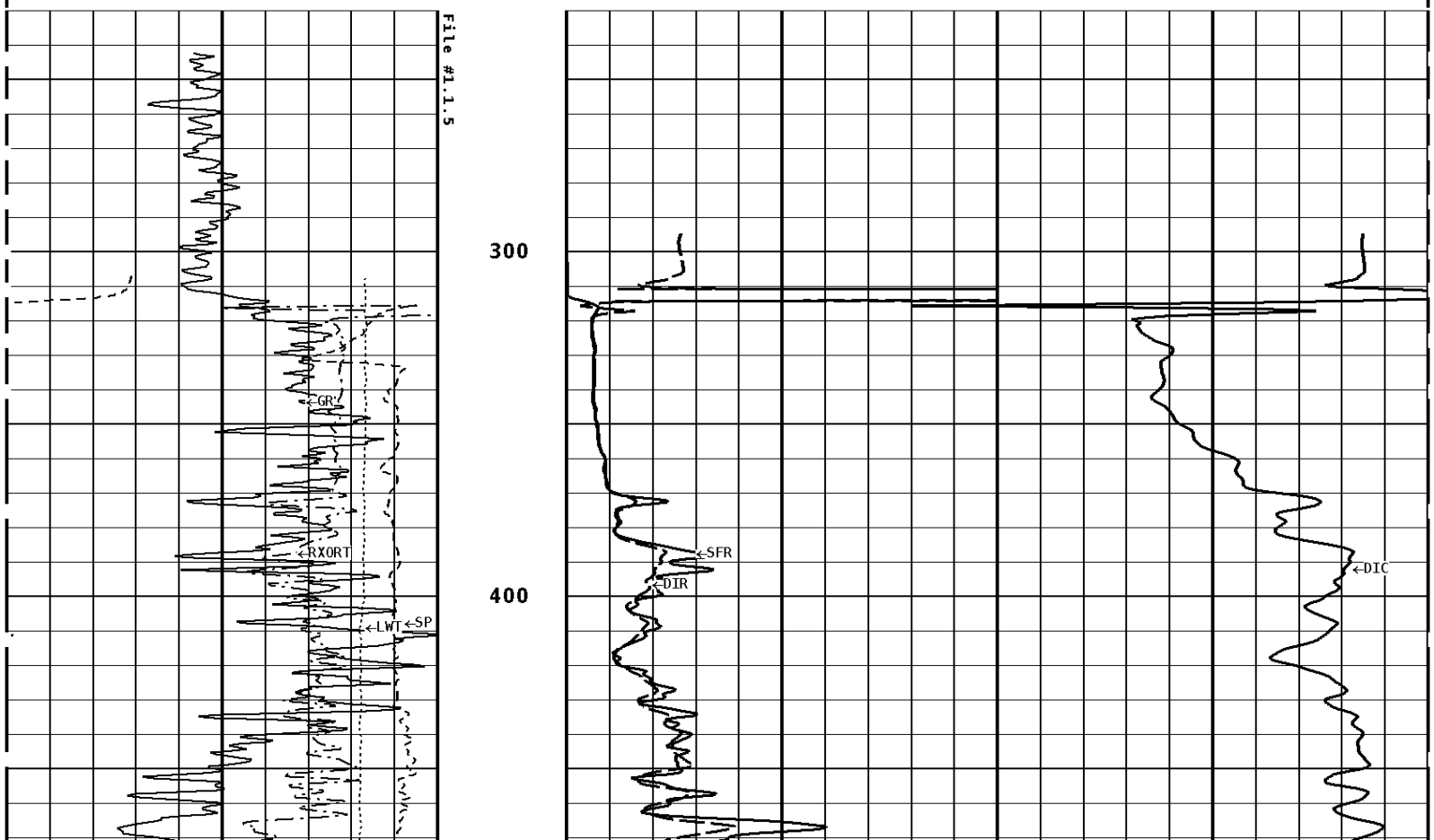
GAMMA RAY
API UNITS
150 300
0 150

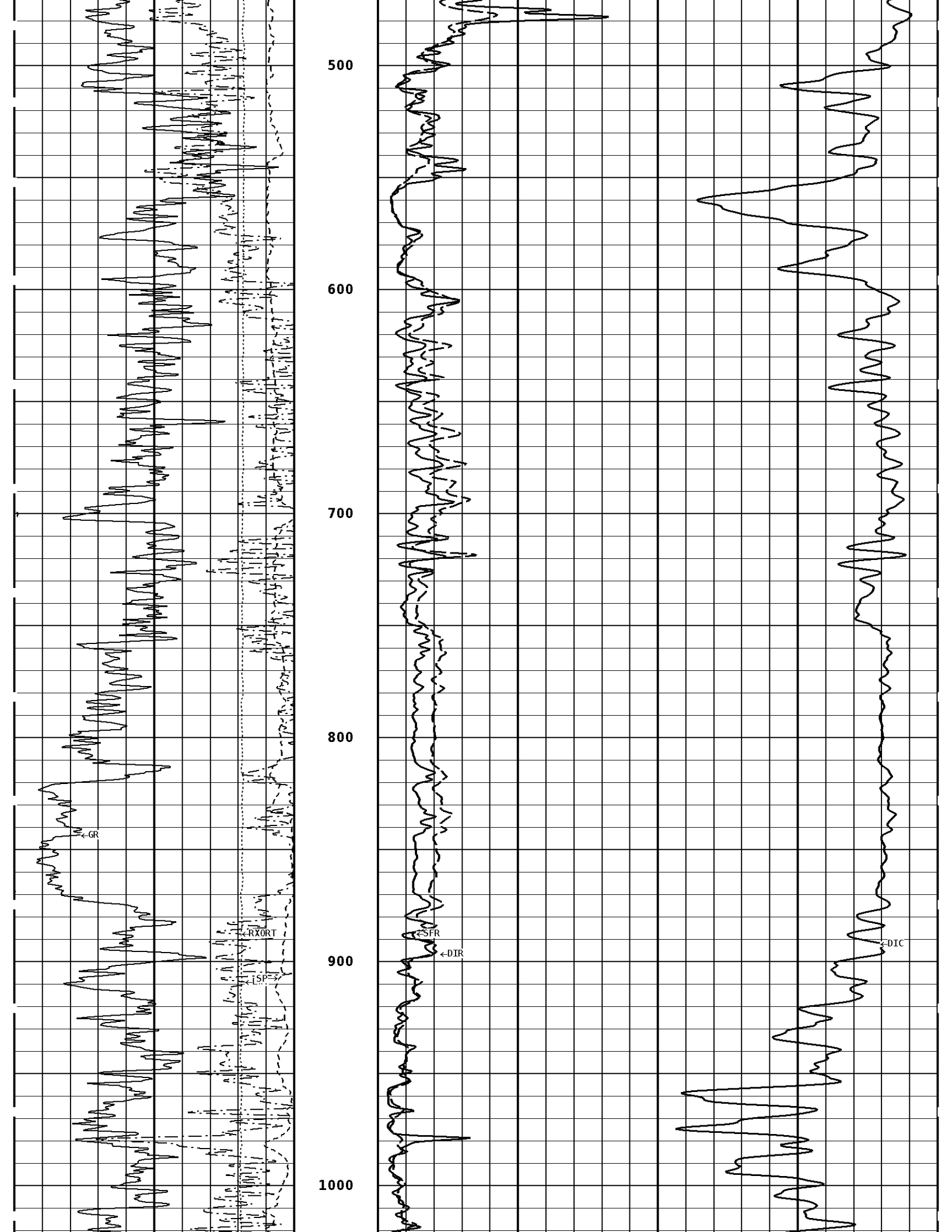
SHALLOW FOCUSED RESISTIVITY
OHMM
0.0 500.0
0.0 50.0

DEEP INDUCTION
OHMM
0.0 500.0
0.0 50.0

DEEP CONDUCTIVITY
MMHO
2000 1000
1000 0

1:600 SECTION
2 INCH

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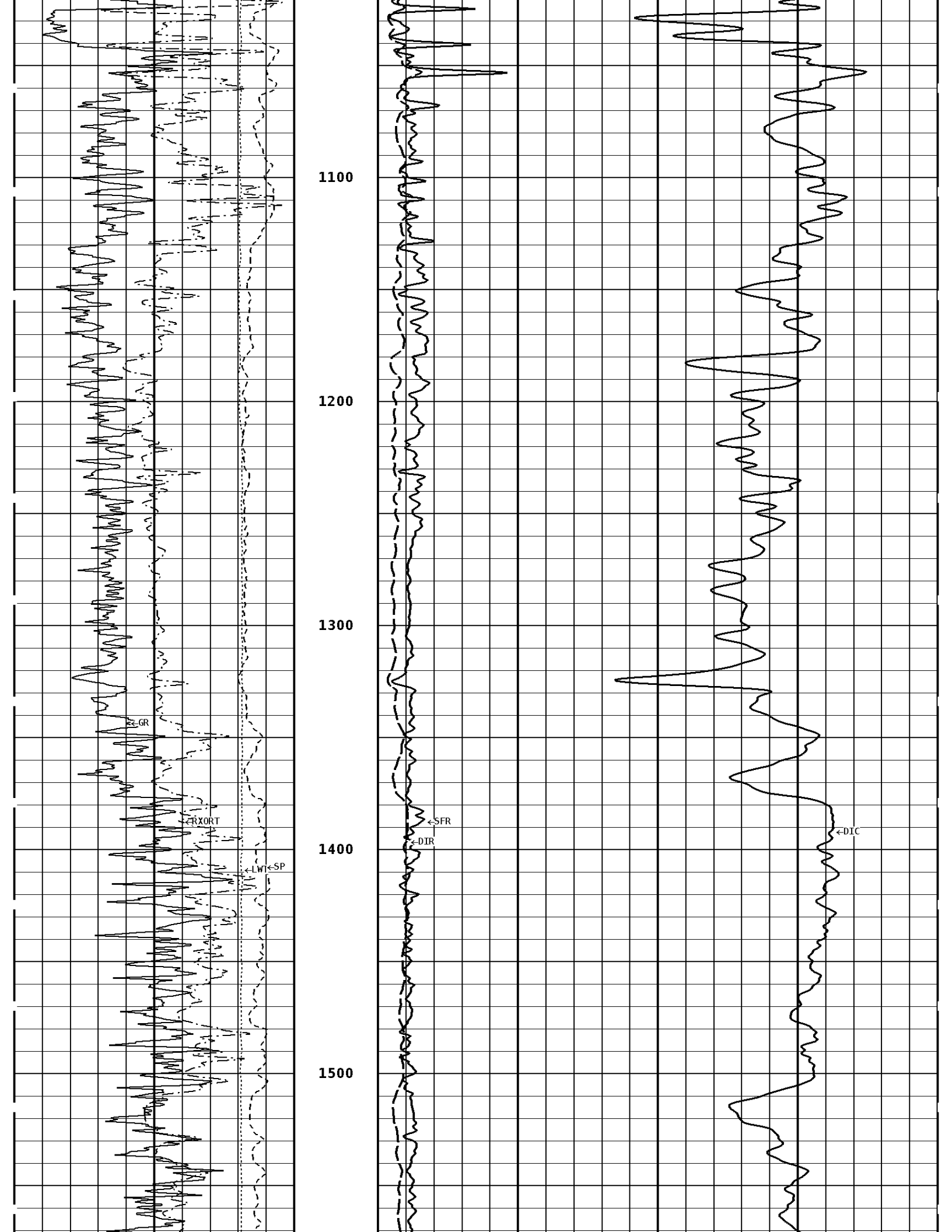
600
700
800
900
1000
←GR
←RXORT
←SP
←SFR
←DIR
←DIC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1400
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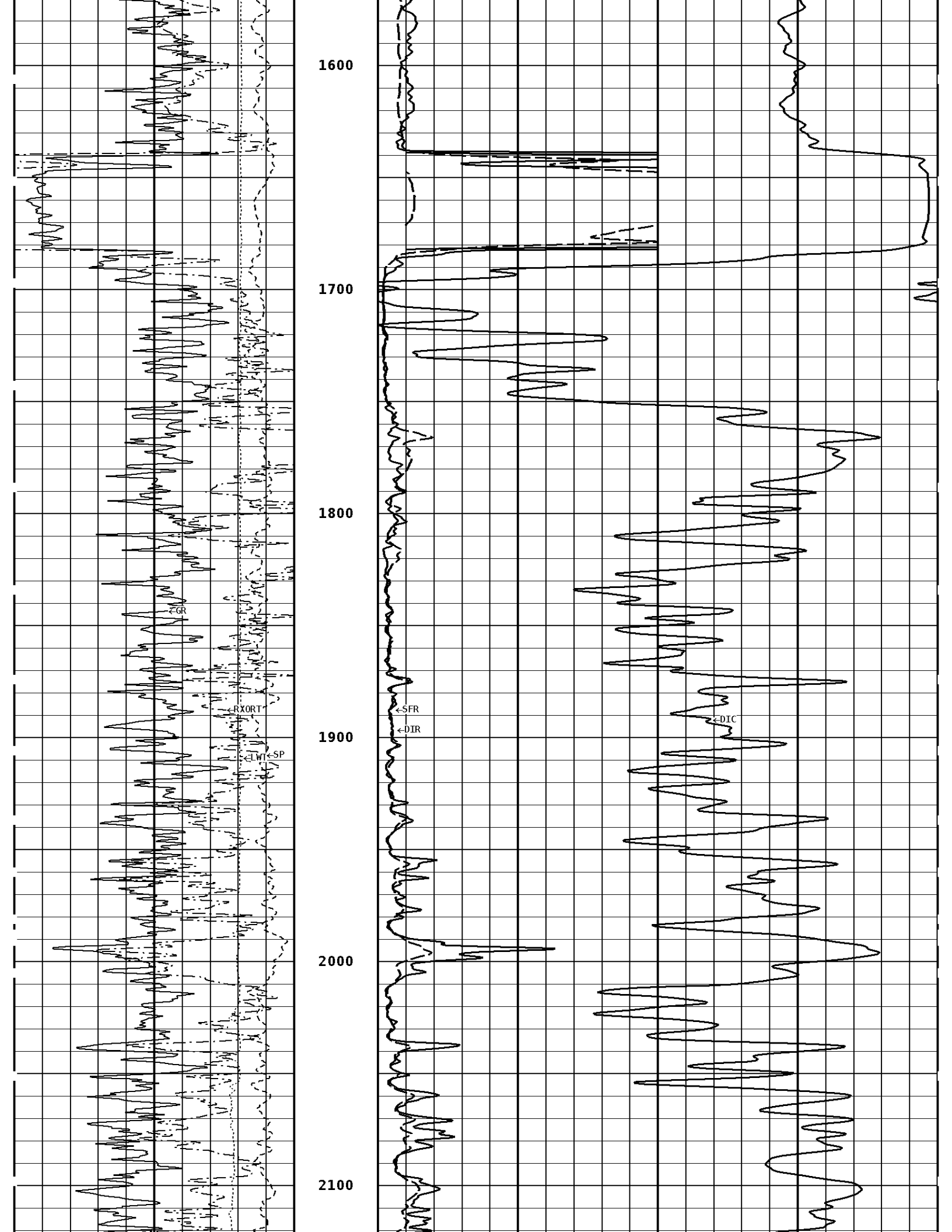
GR
RXORT
LWT
SP
SFR
DIR
DIC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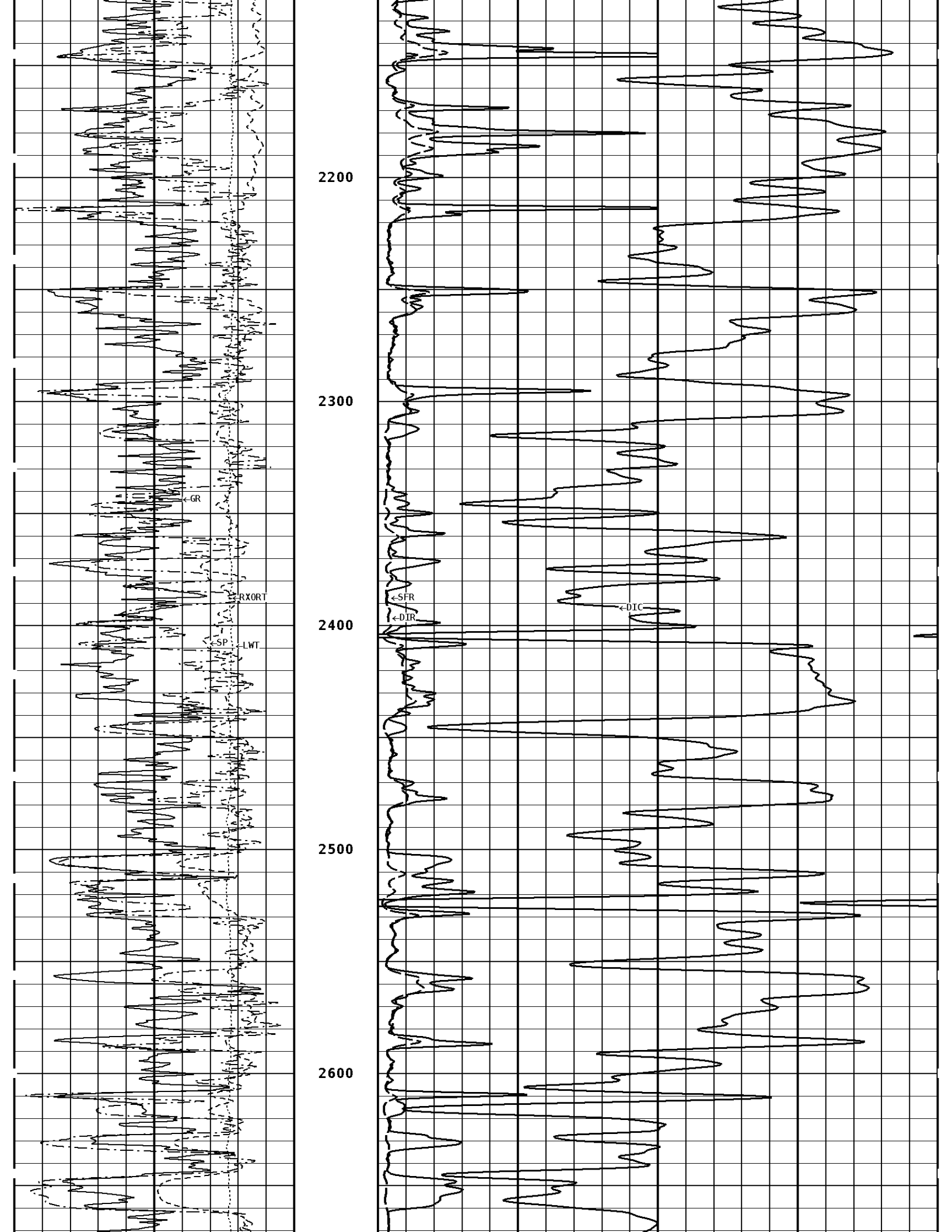
2100
GR
RXORT
SFR
DIR
DIC
LWT
SP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2300
2400
2500
2600
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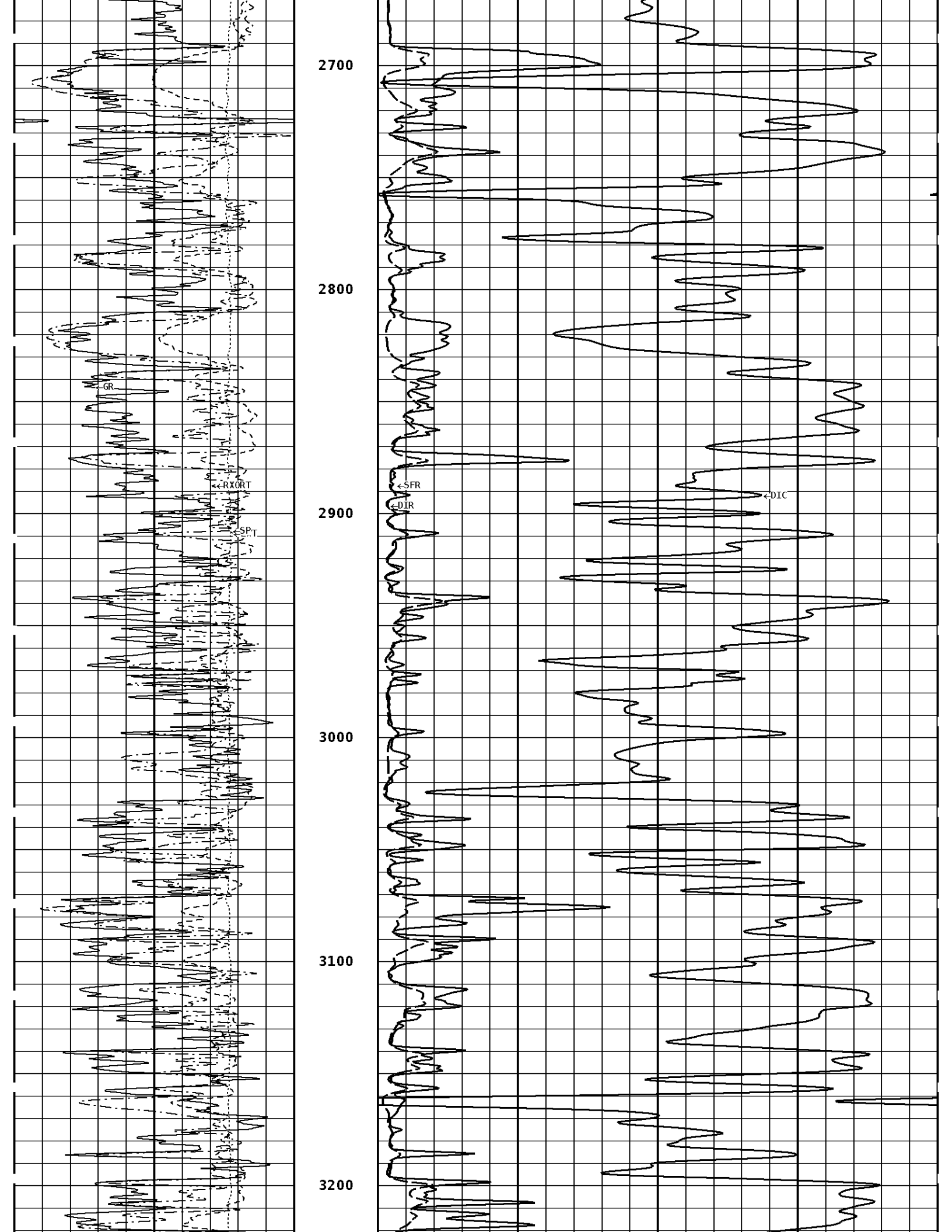
←SFR
←DIC
←DIR
←SP
←LWT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2800
2900
3000
3100
3200
GR
RXORT
SP
SFR
DIR
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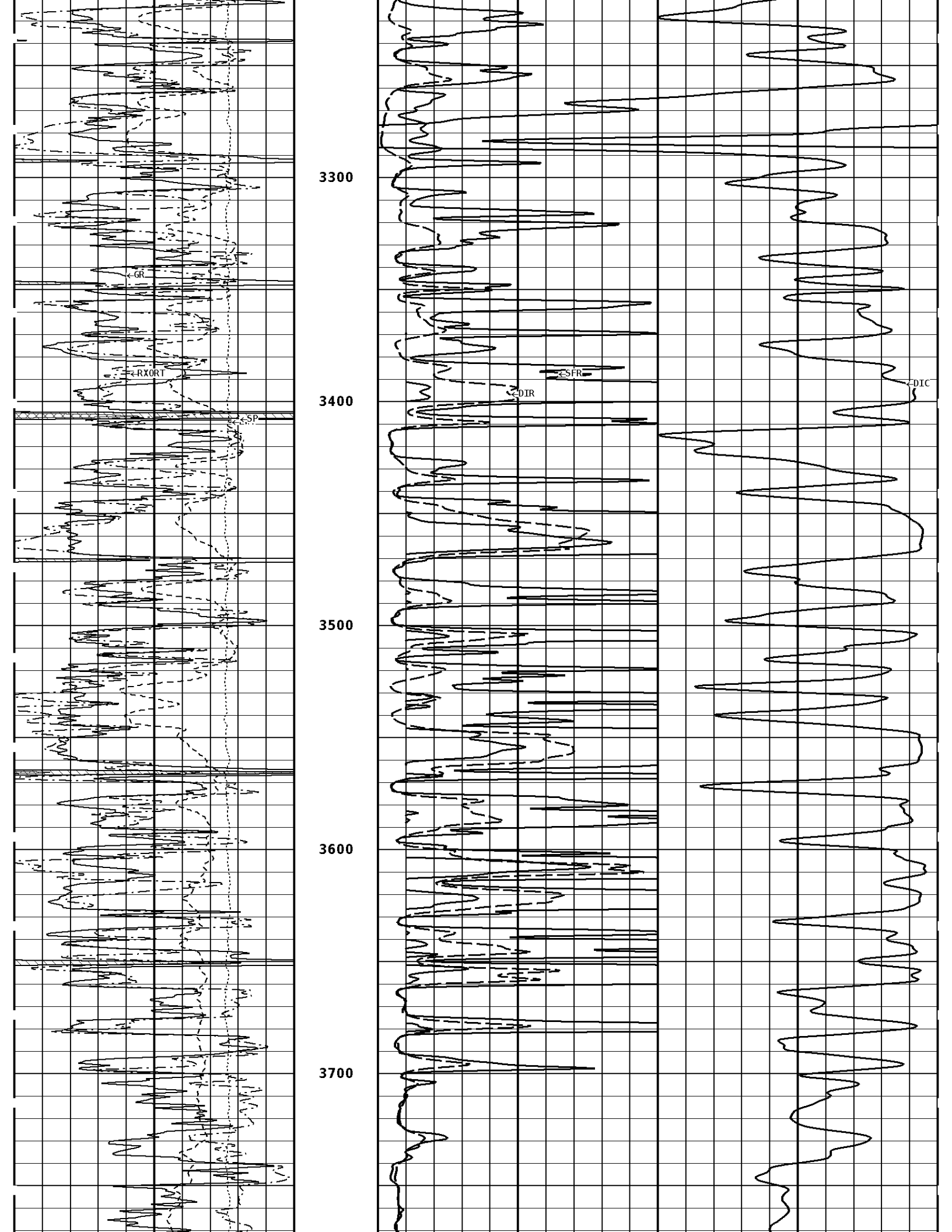
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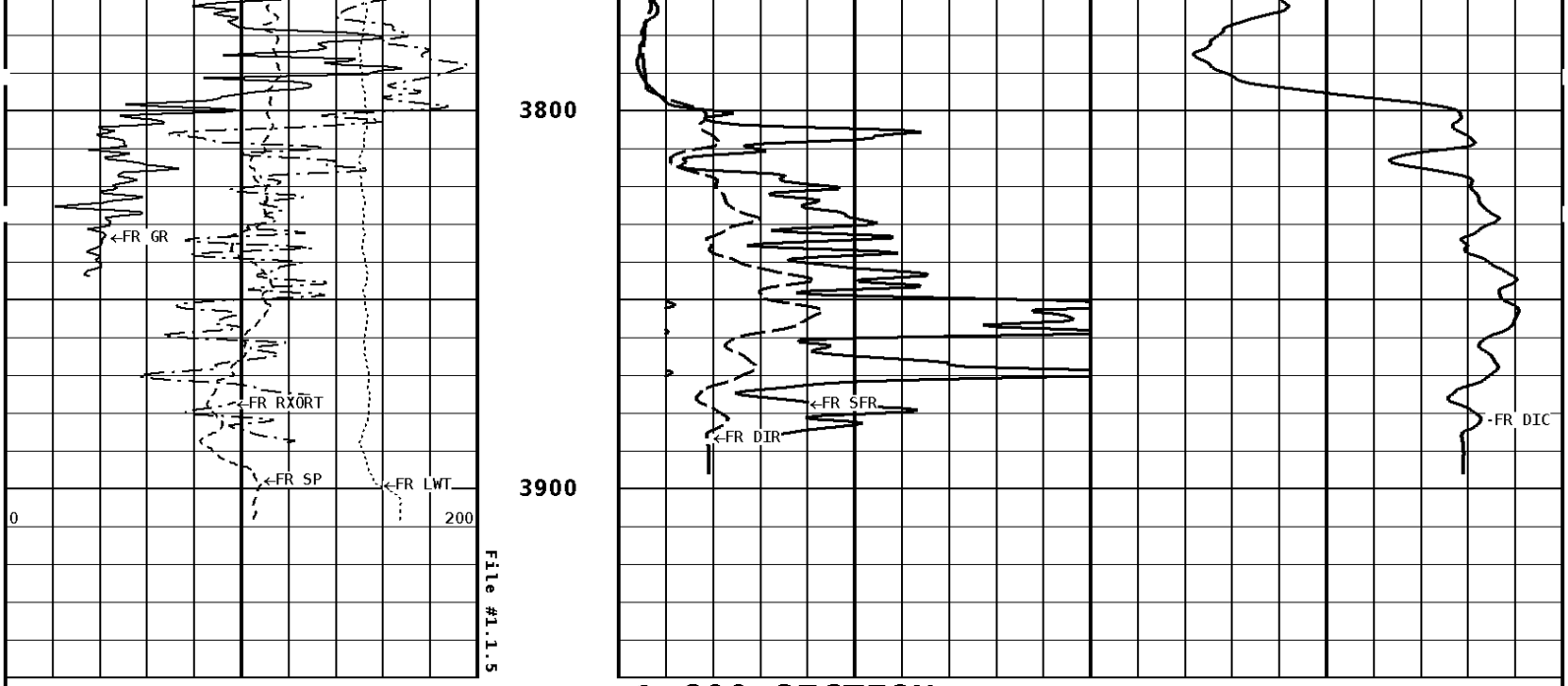
GR
RXORT
SP
SFR
DIR
DIC



1:600 SECTION
2 INCH

GAMMA RAY
API UNITS
150 300
0 150

SPONTANEOUS POTENTIAL
mV
→| |←20

TENSION
LBS
10000 0

RXO/RT
-160 40

DEEP CONDUCTIVITY
MMHO
2000 1000
1000 0

DEEP INDUCTION
OHMM
0.0 500.0
0.0 50.0

SHALLOW FOCUSED RESISTIVITY
OHMM
0.0 500.0
0.0 50.0

Well File: and-ene-eat-tr-1-quint-jun-29 **Scale:** 1:240
Segment: V1.D1.S5 MN **Acquired:** 2012-06-29 09:23 3.2.0-10932
Reference: 0 **Processed:** 2012-06-29 11:06 3.2.0-10932

RXO/RT
-160 40

TENSION
LBS
10000 0

SPONTANEOUS POTENTIAL
mV
→| |←20

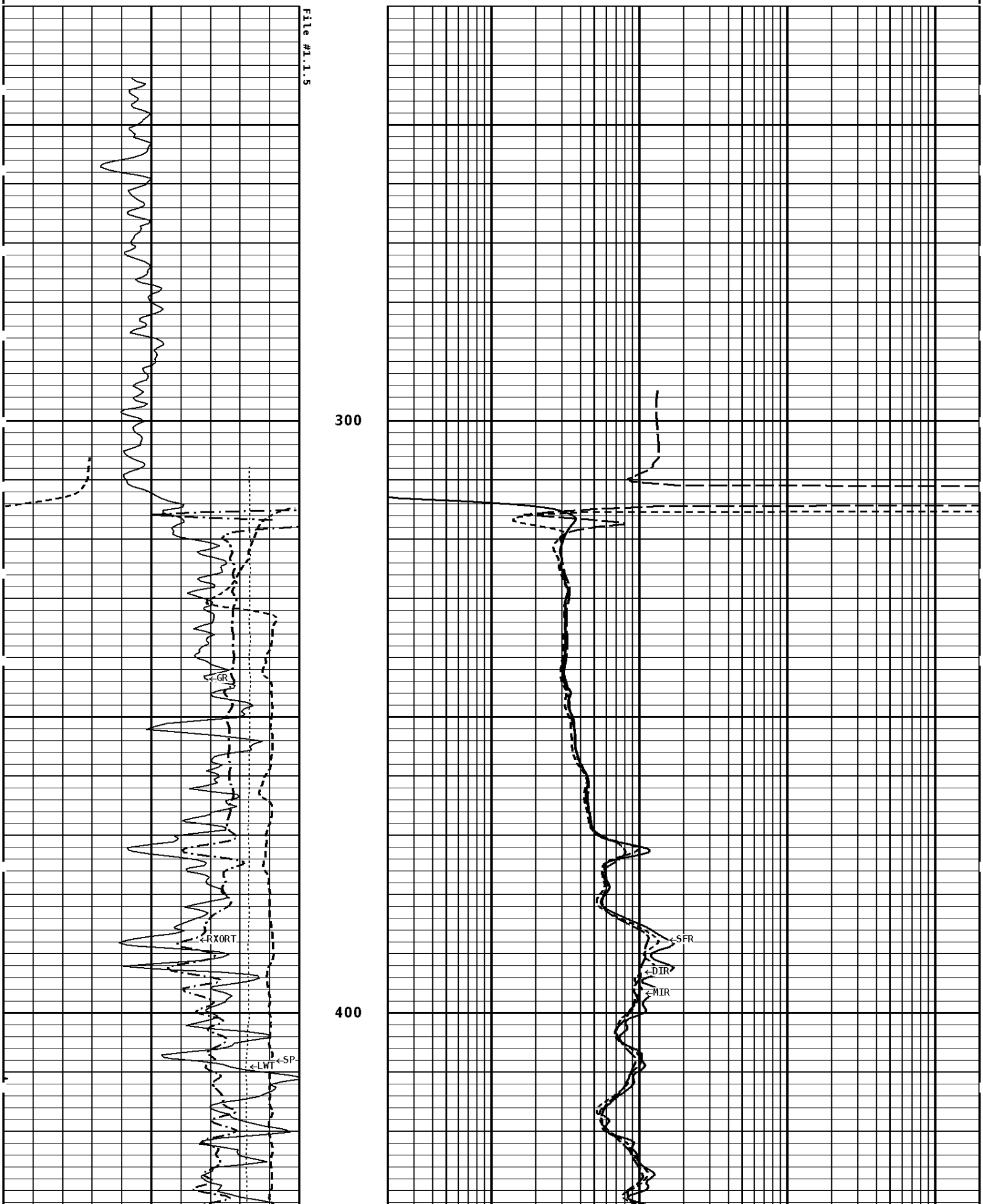
GAMMA RAY
API UNITS
150 300
0 150

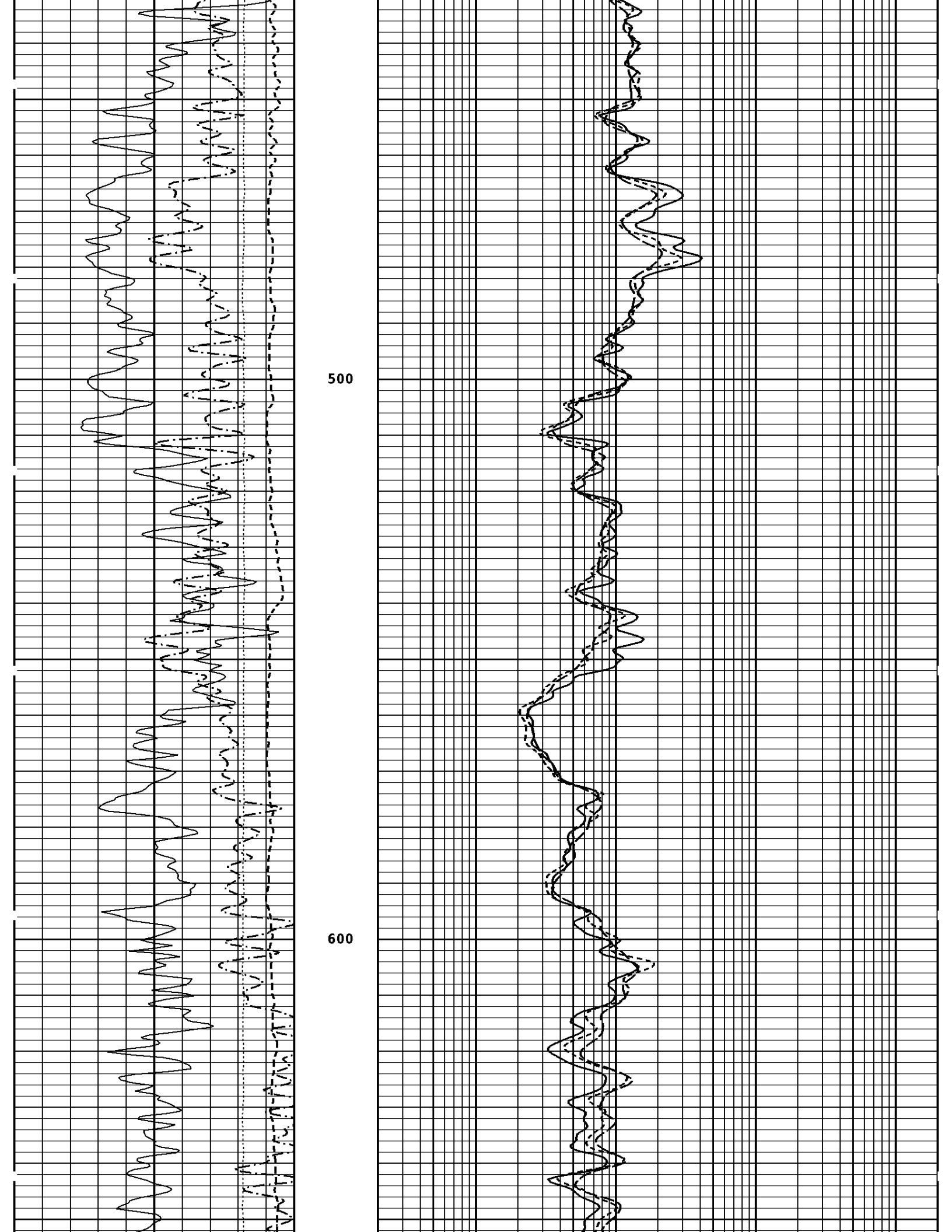
SHALLOW FOCUSED RESISTIVITY
OHMM
0.2 2000.0

MEDIUM INDUCTION
OHMM
0.2 2000.0

DEEP INDUCTION
OHMM
0.2 2000.0

1:240 MAIN SECTION

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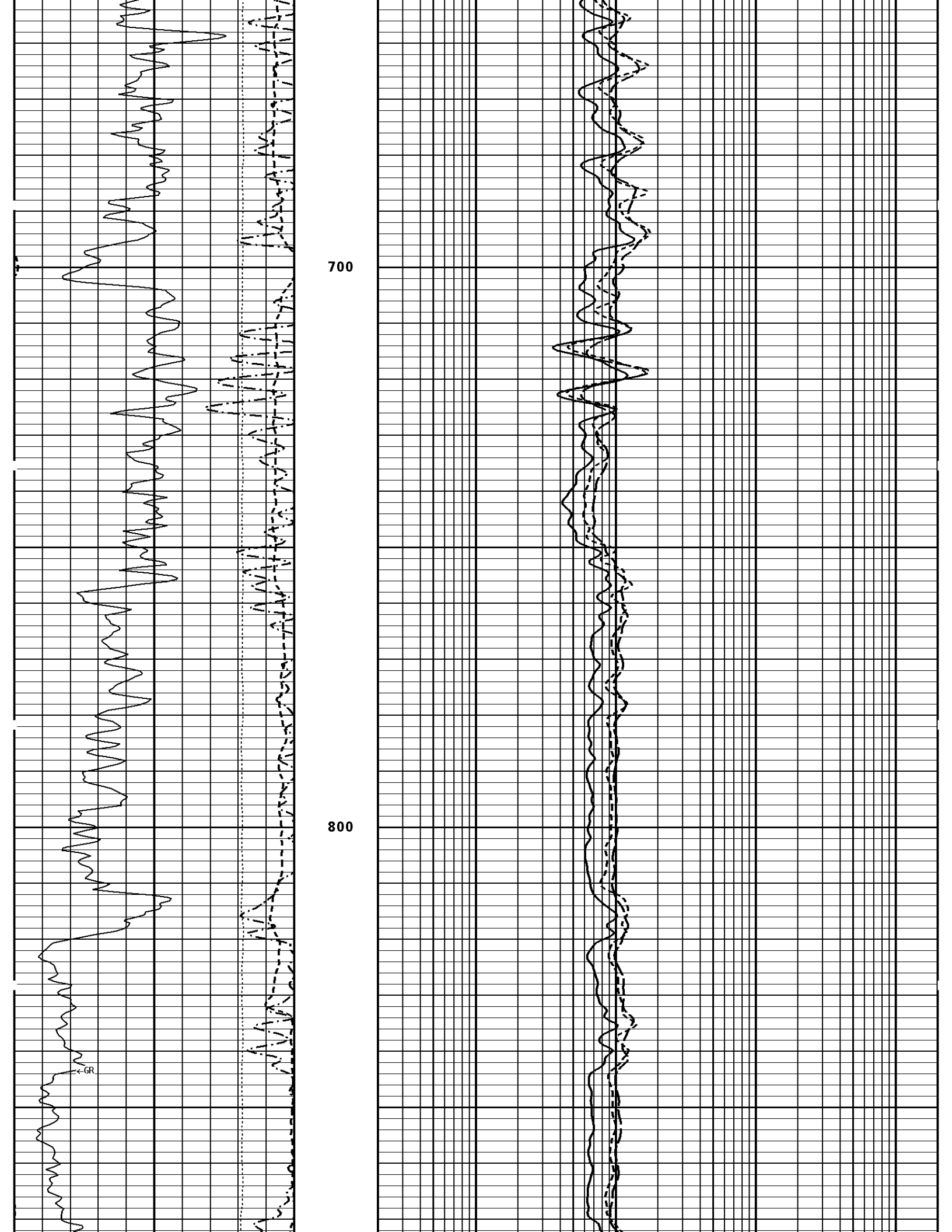
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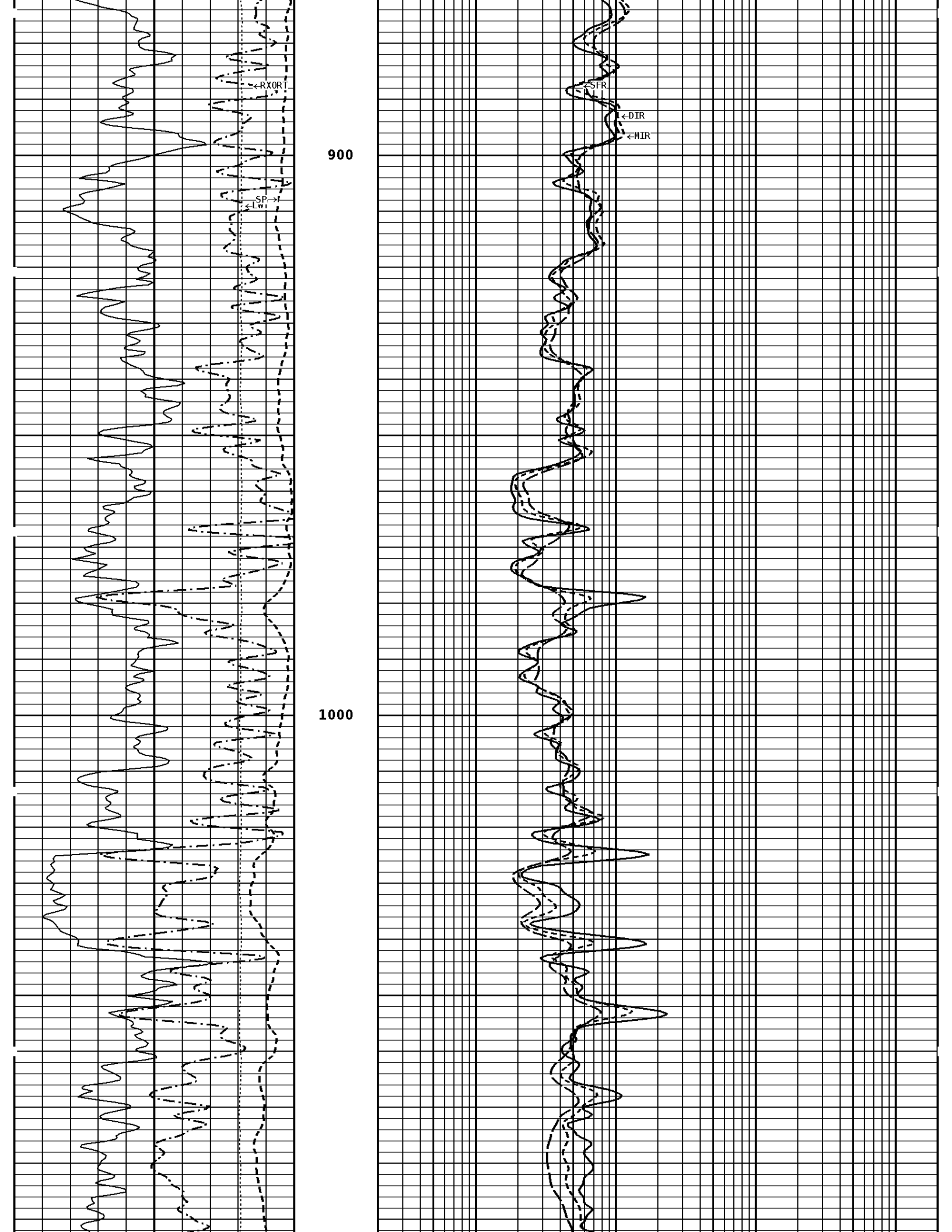
←GR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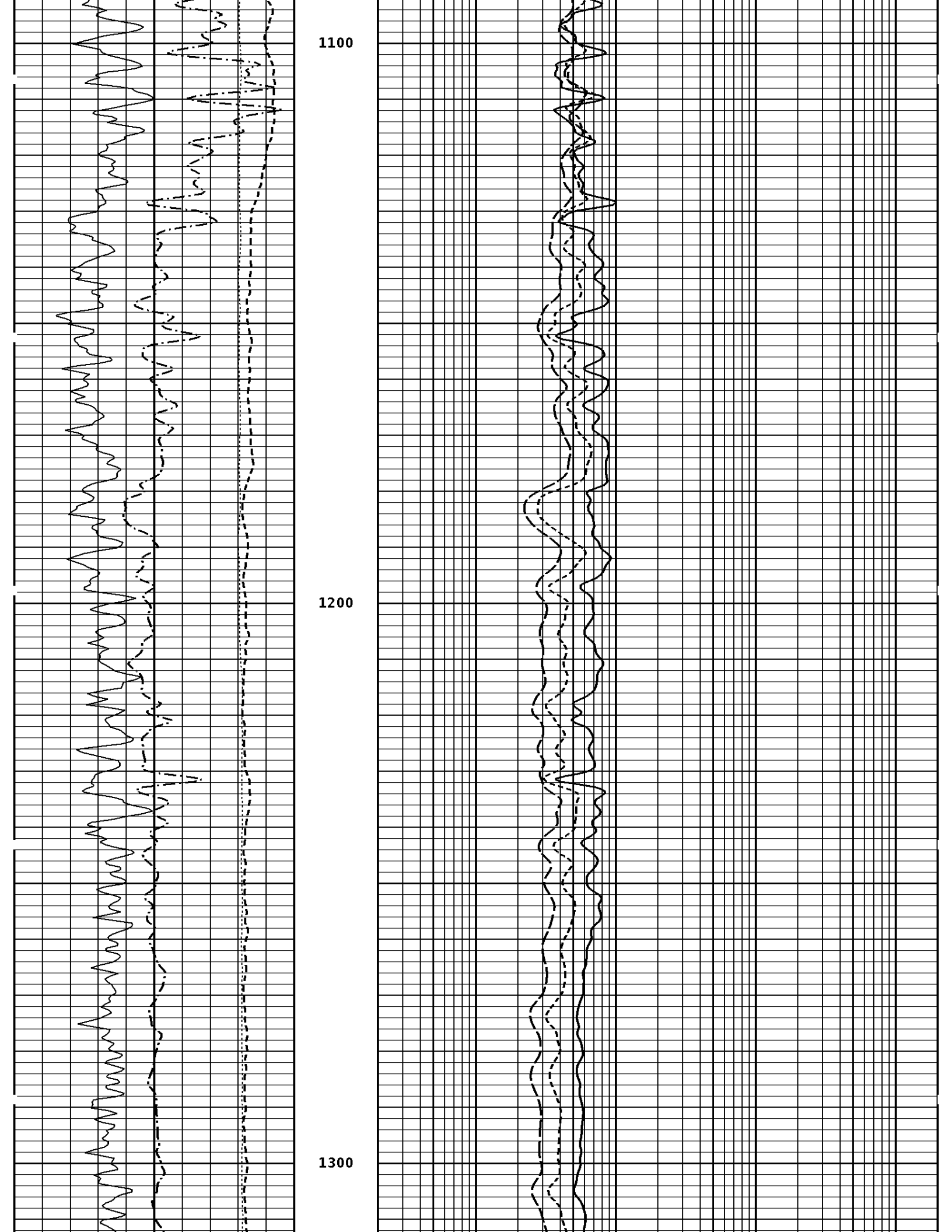
SP
LLm
900
1000
SFR
DIR
MIR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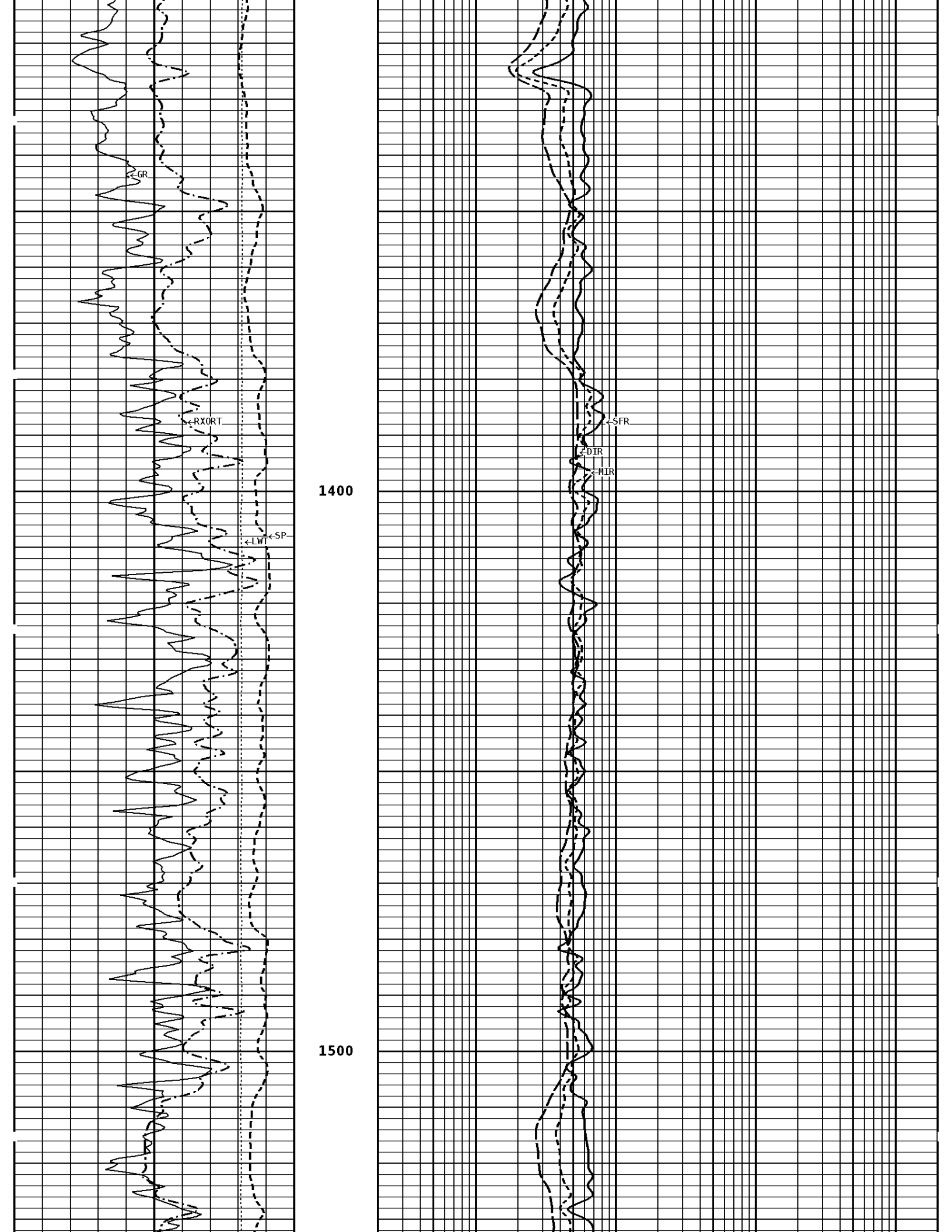
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LWT
SP
SFR
DIR
MIR
1400
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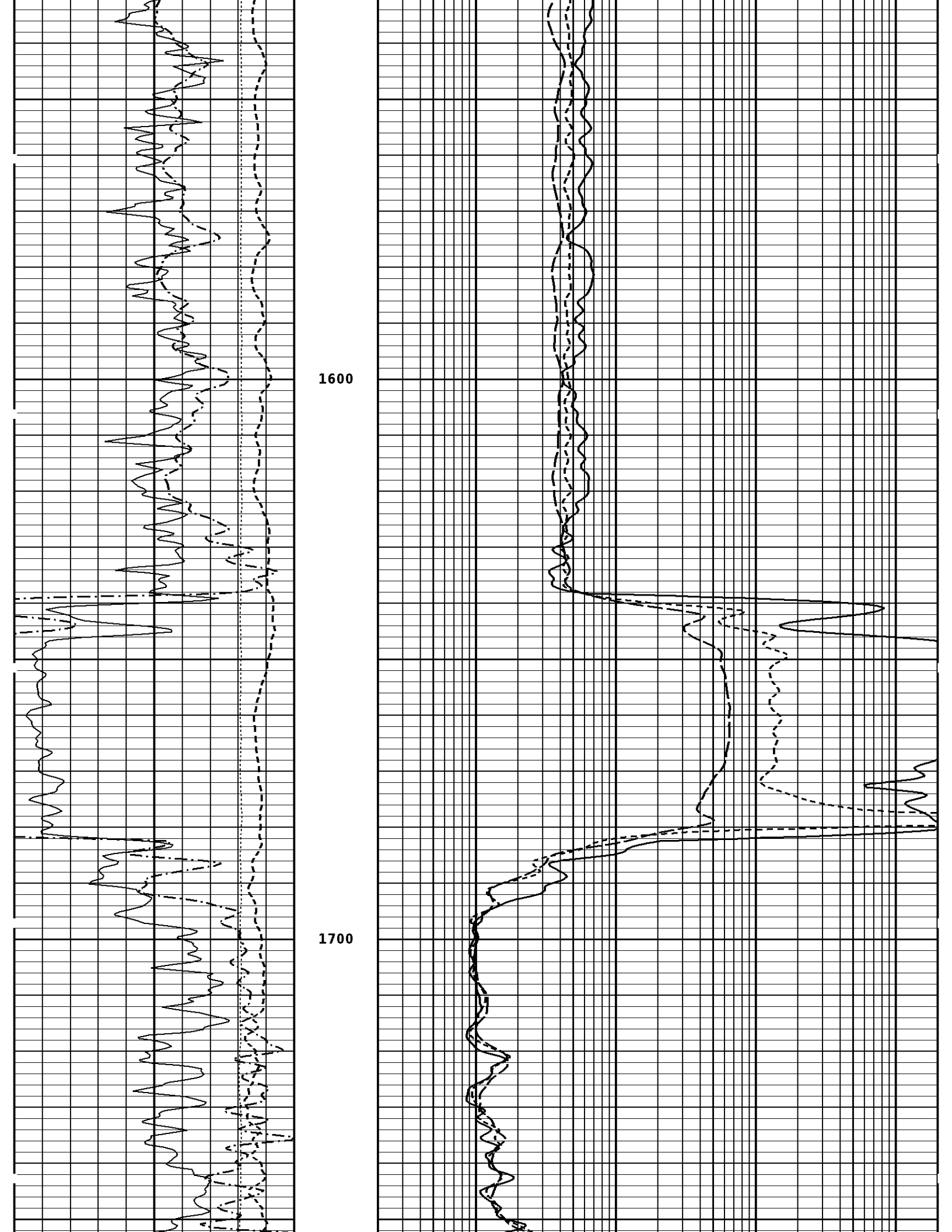
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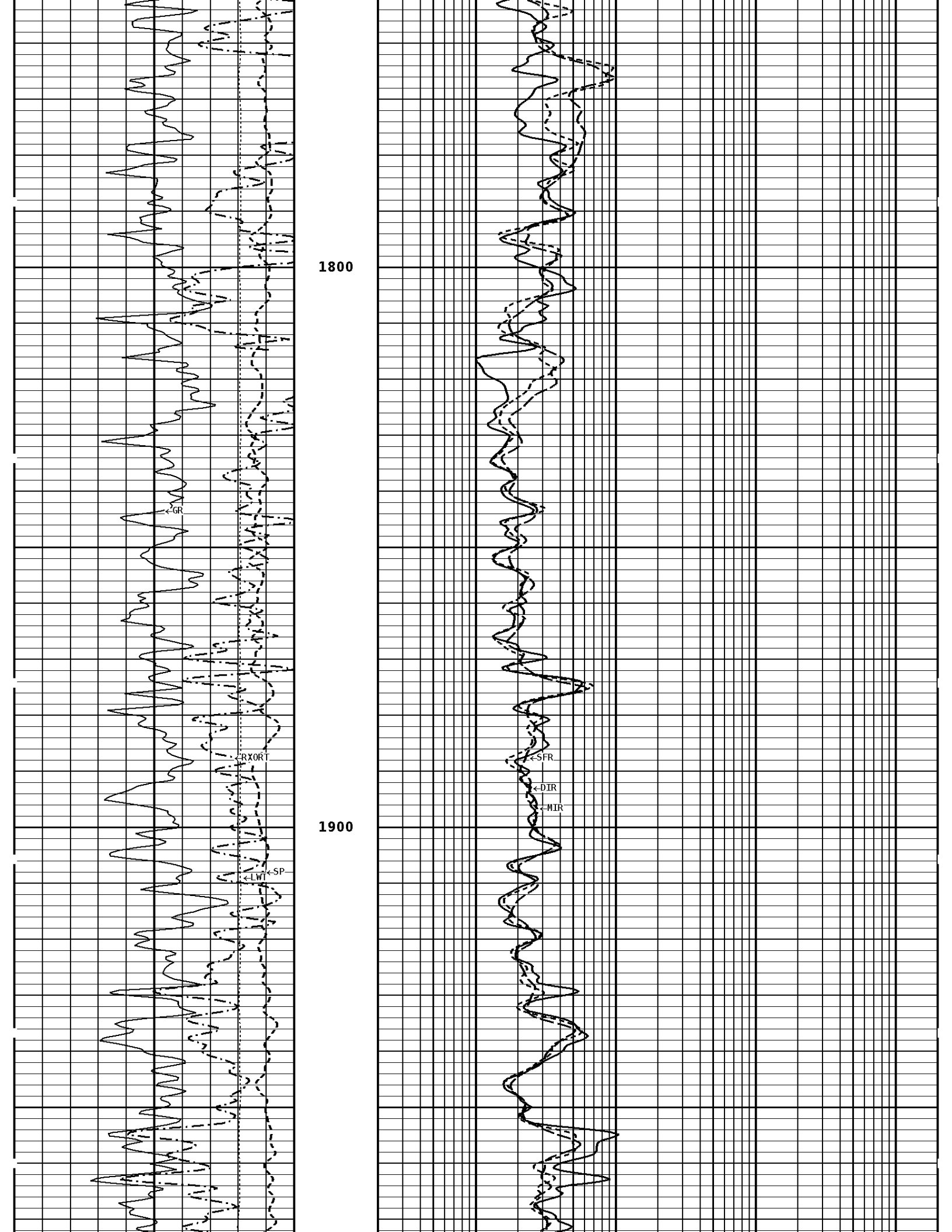
1800
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←GR
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←LWT
←SP
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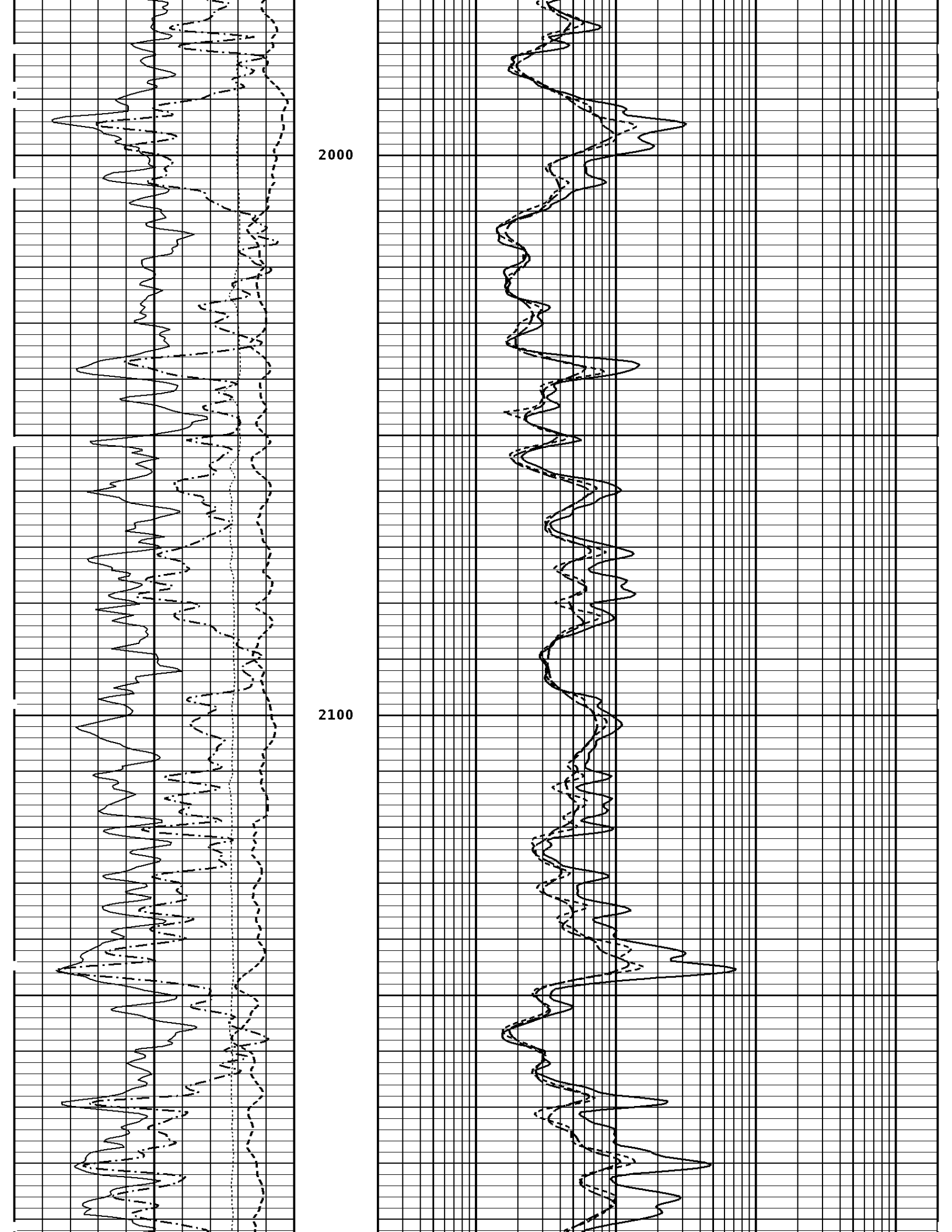
←MIR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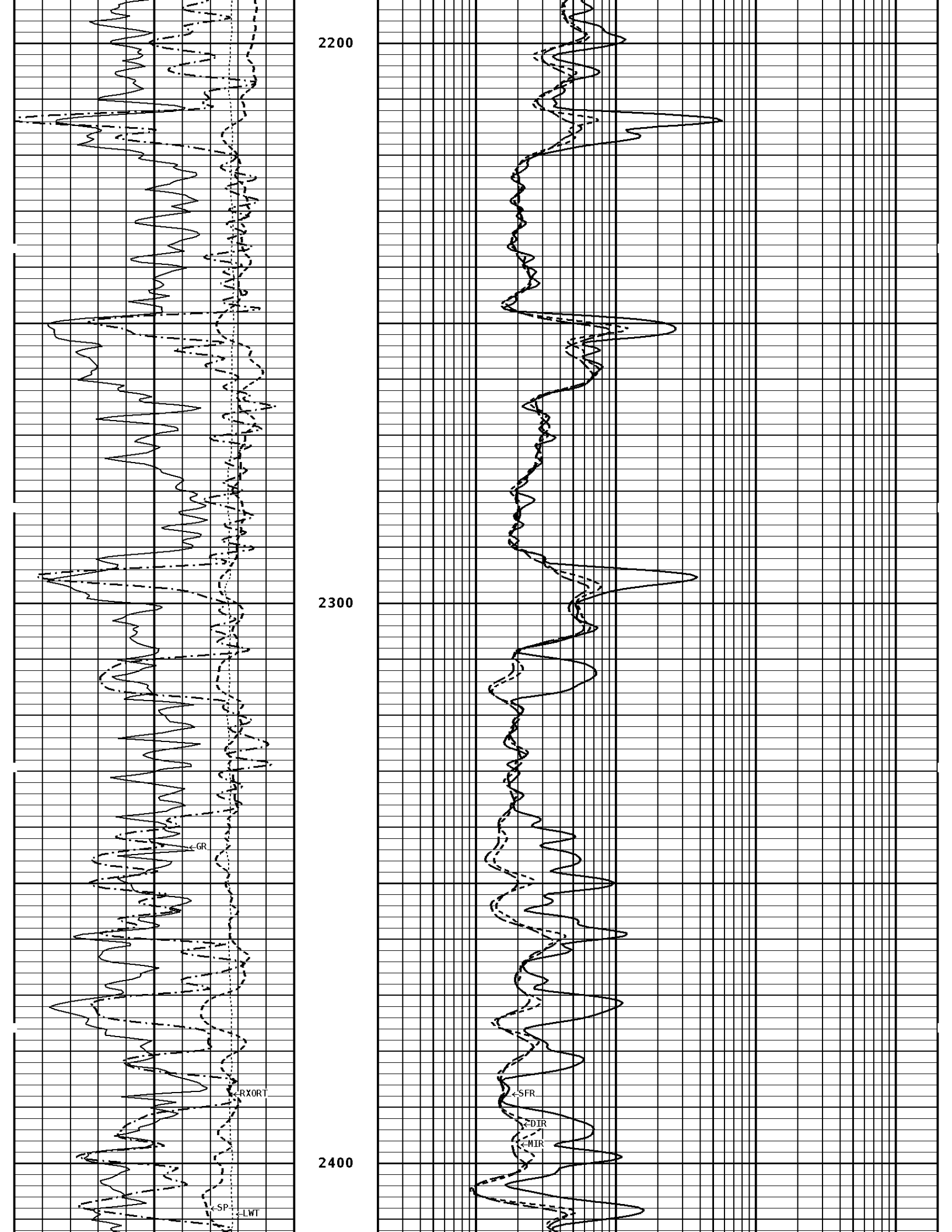
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2300
2400
GR
RXORT
SP
LWT
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DIR
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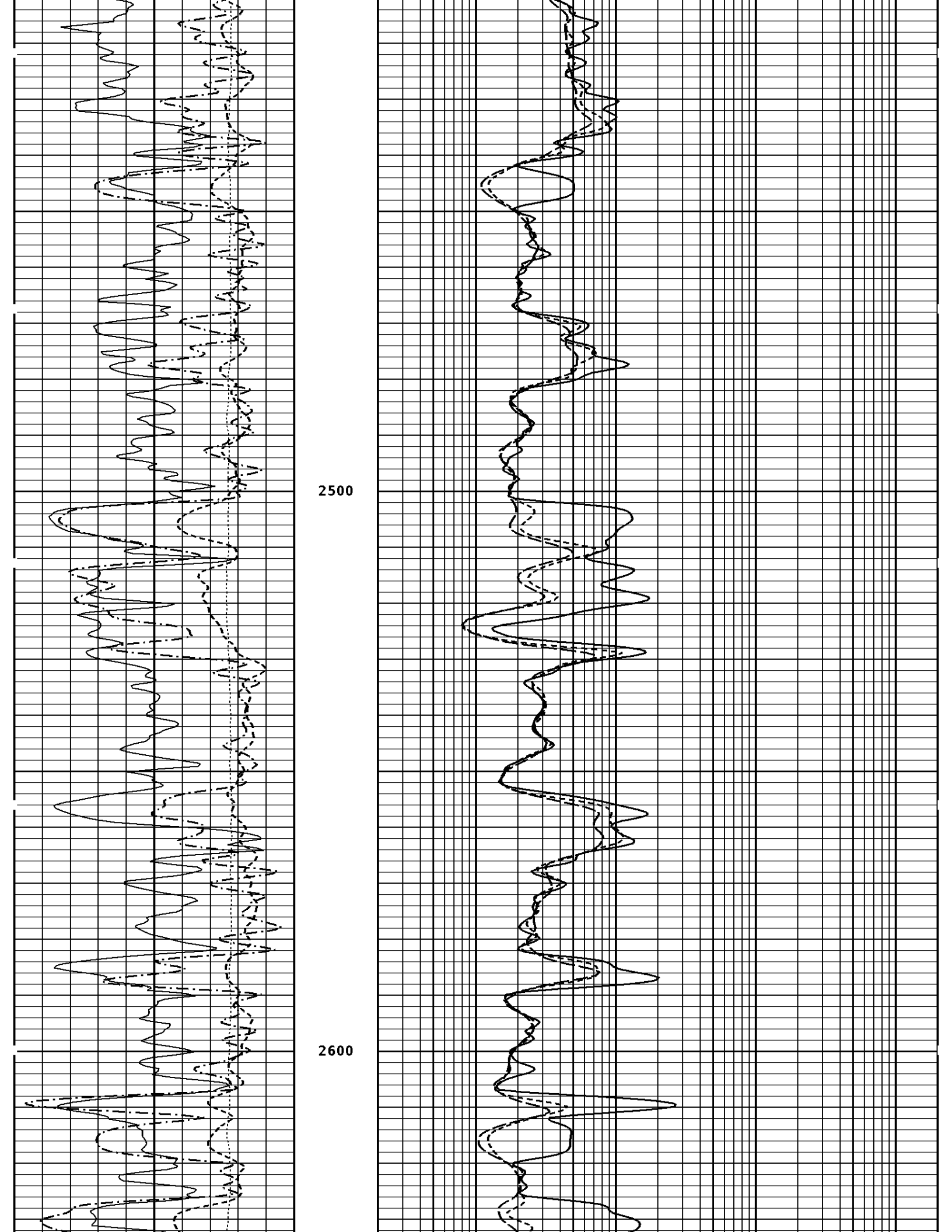
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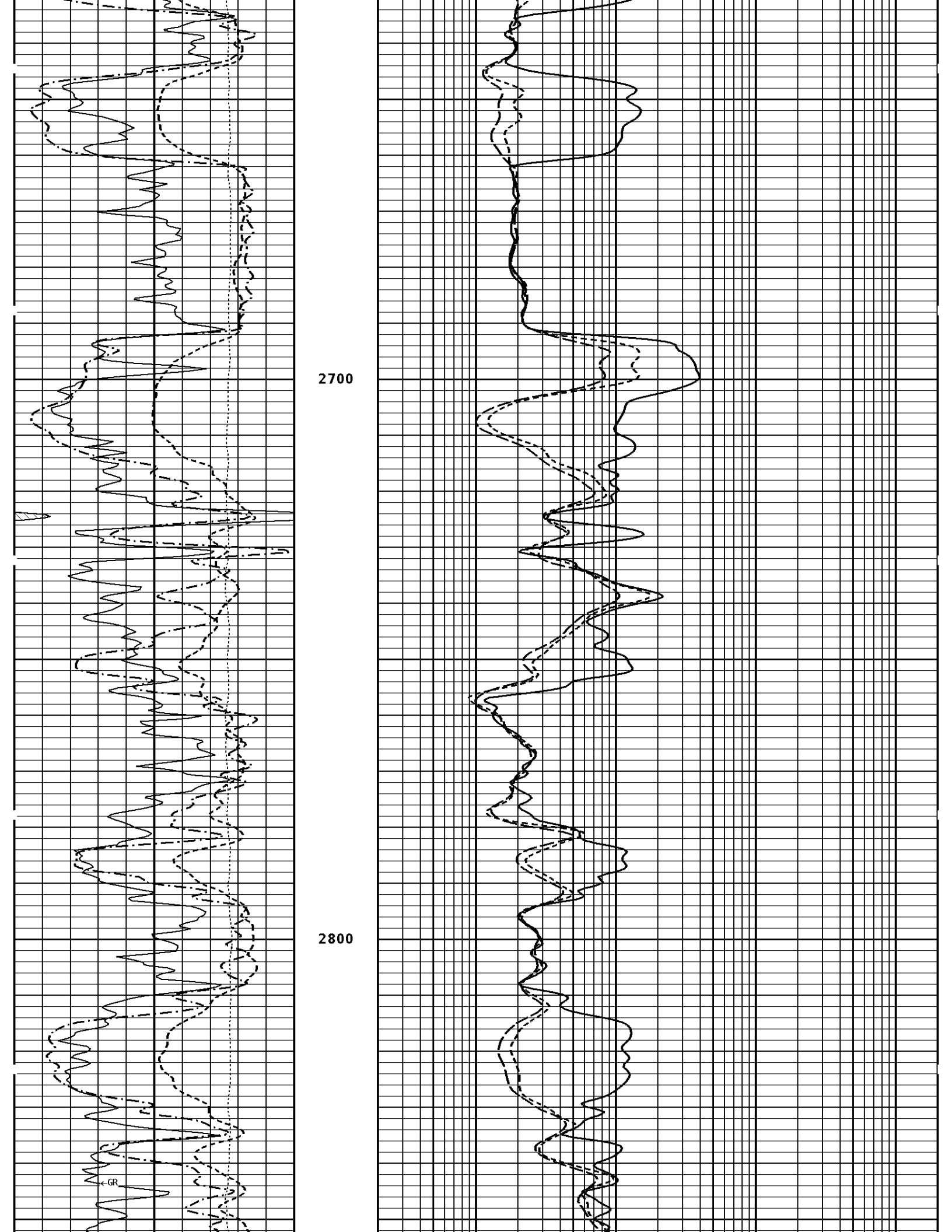
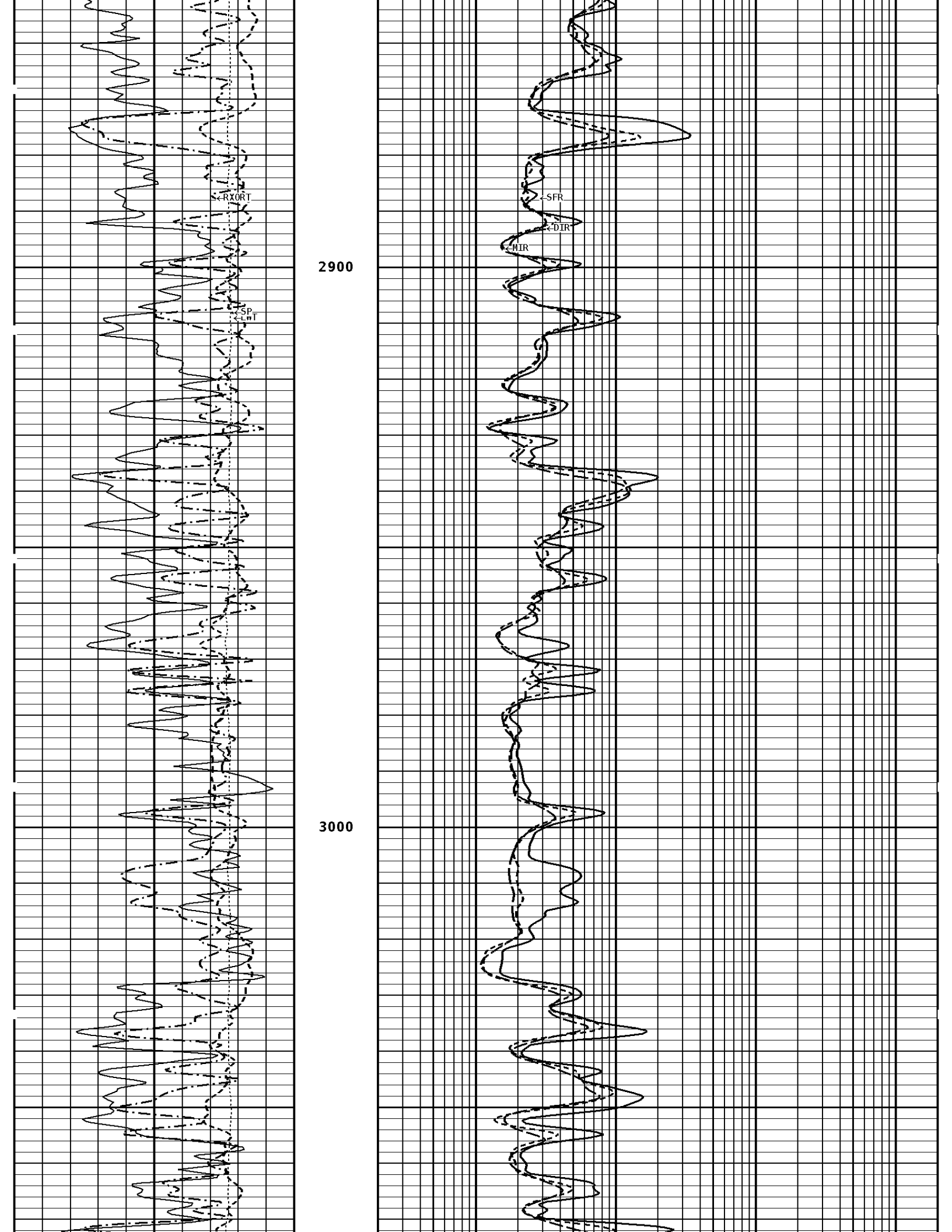
2600


2700
2800
GR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←SP
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←DIR
←MIR
2900
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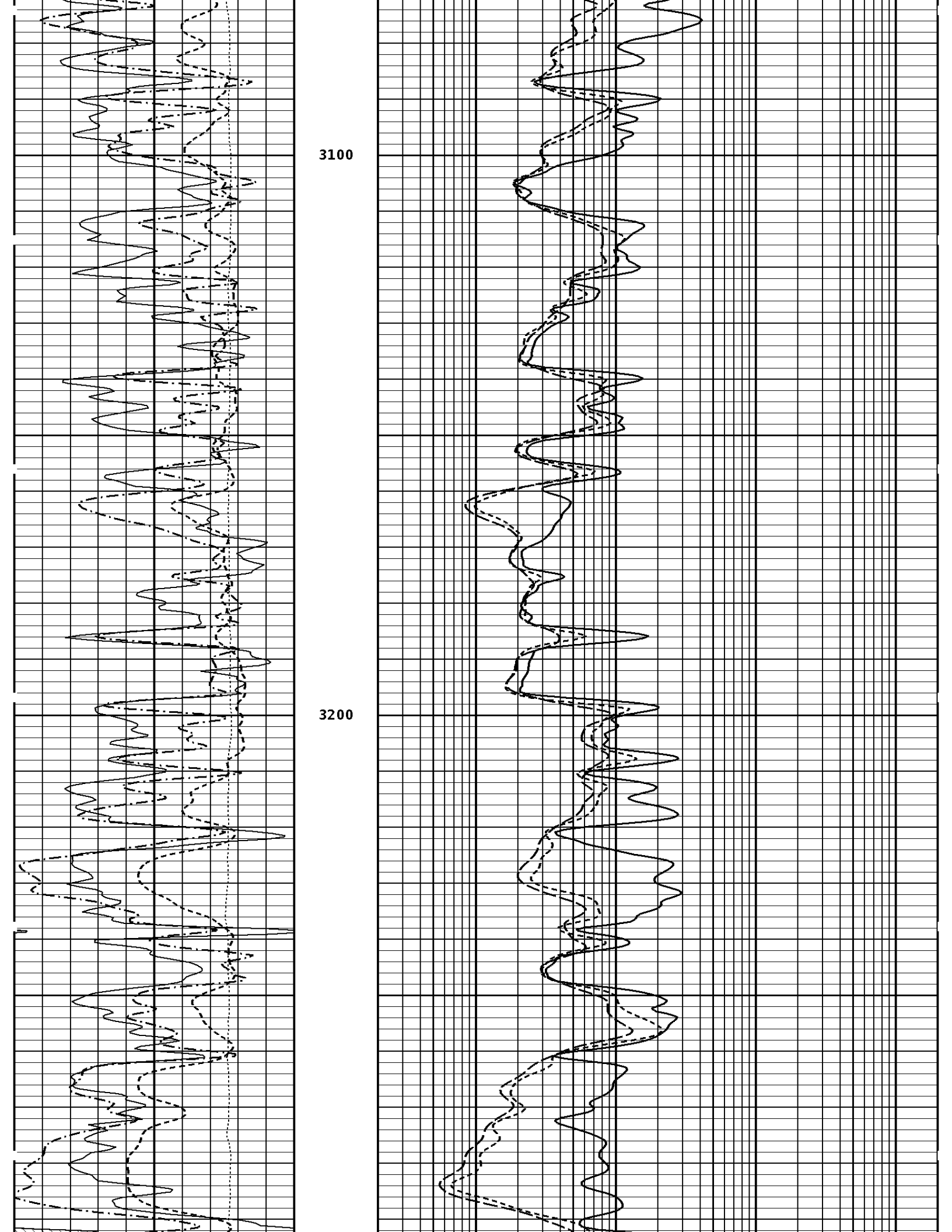
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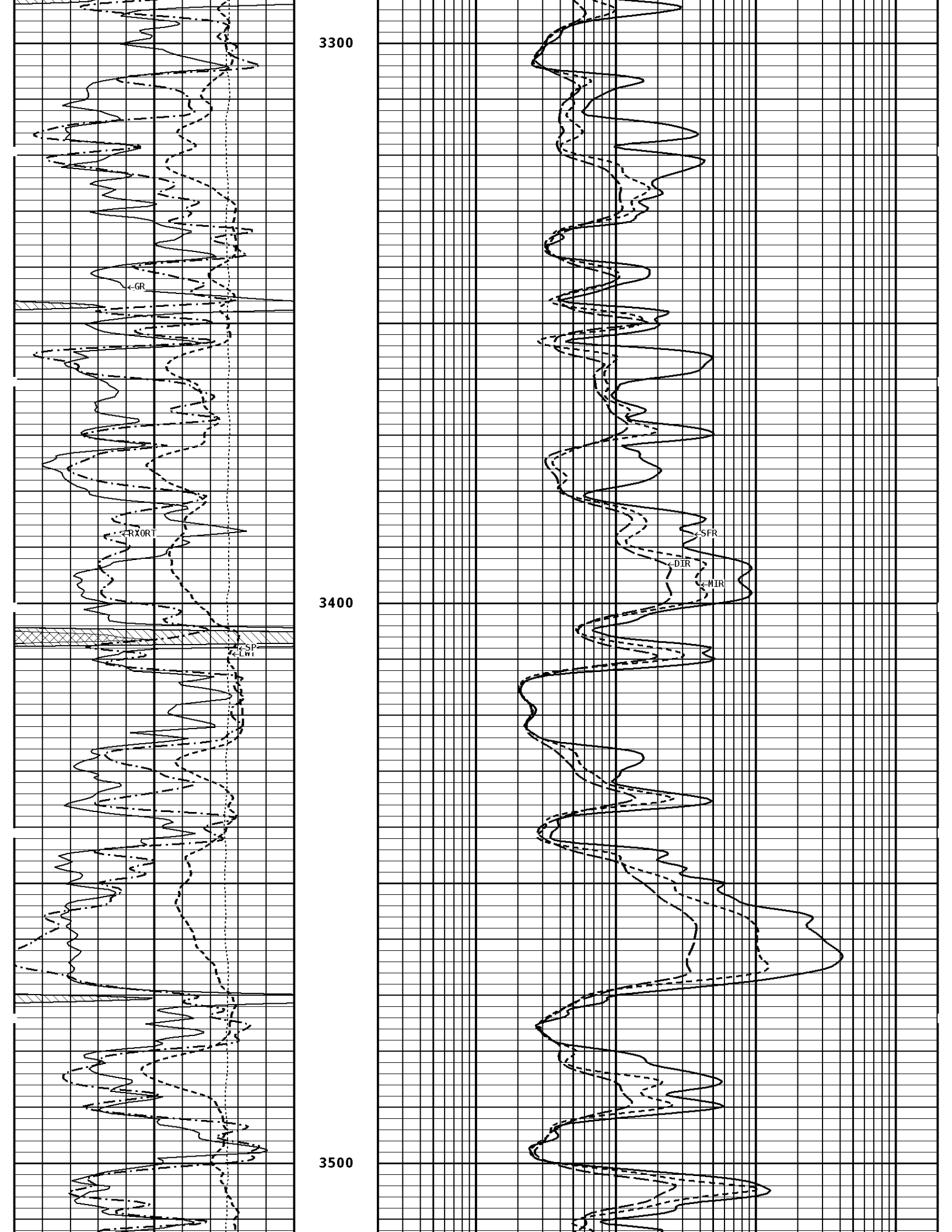
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GR
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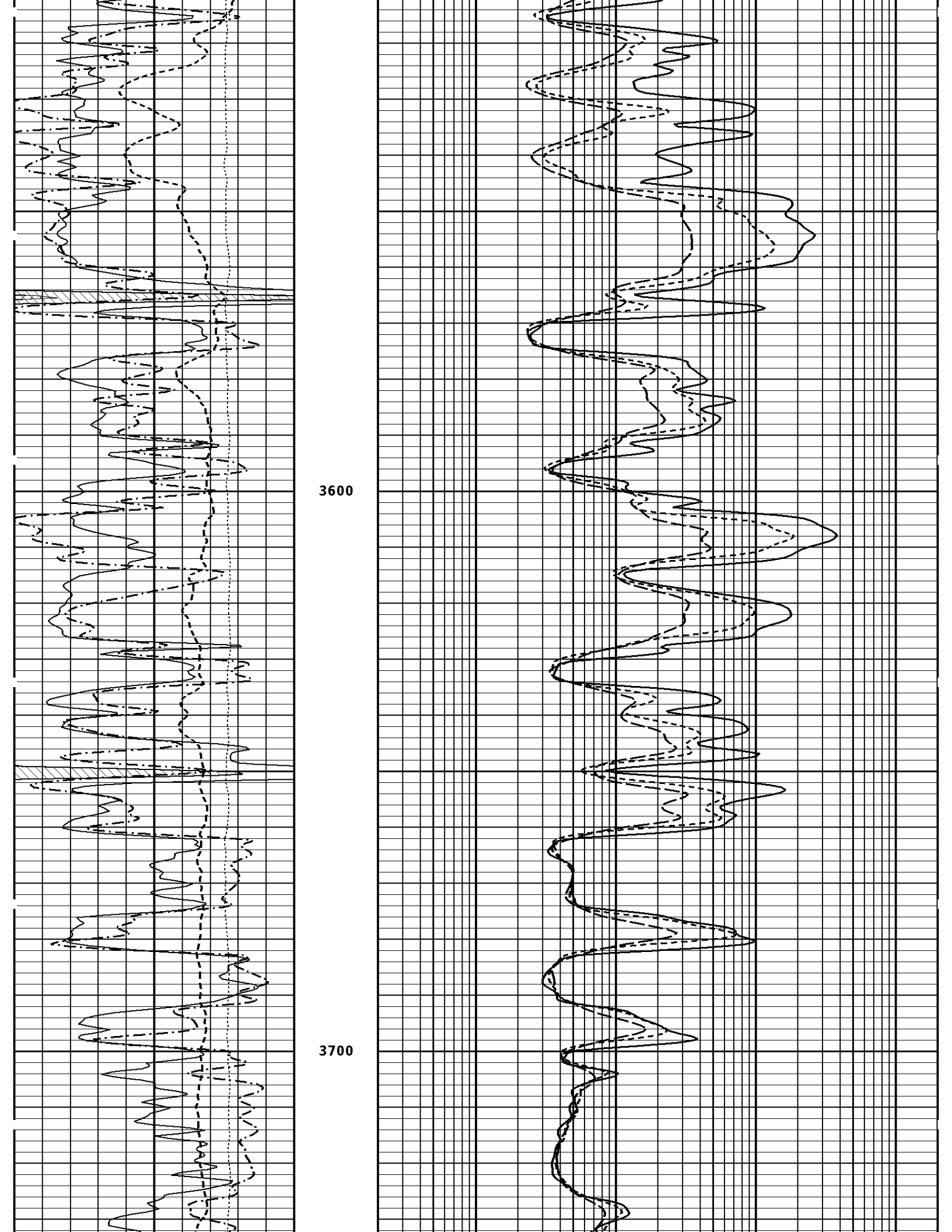
SFR
DIR
MIR
3400
SP
LWT
3500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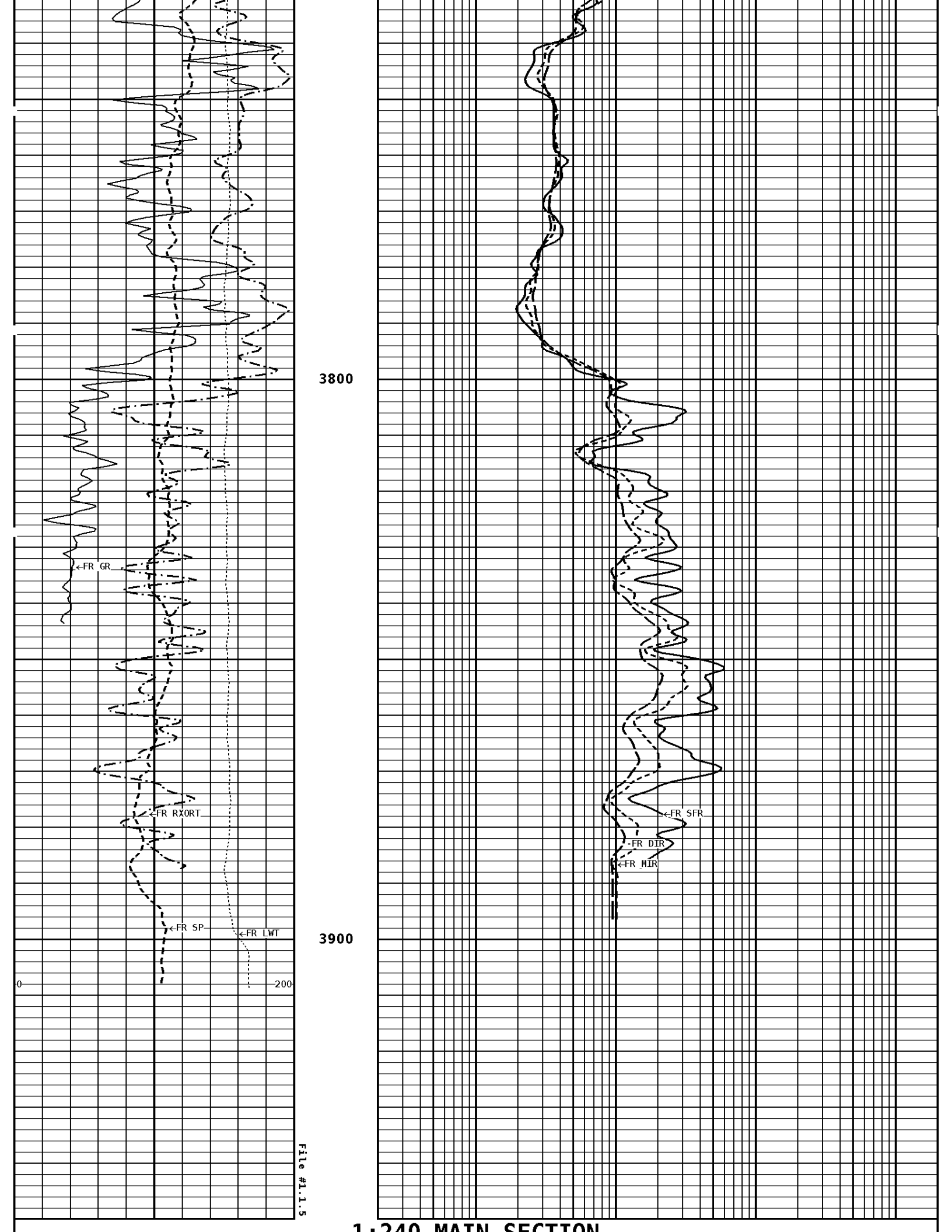


1:240 MAIN SECTION

1:240 MAIN SECTION

GAMMA RAY API UNITS	DEEP INDUCTION OHMM
150 / 0 — 300 / 150	0.2 — 2000.0
SPONTANEOUS POTENTIAL mV	**MEDIUM INDUCTION OHMM**
→| |←20	0.2 — 2000.0
TENSION LBS	**SHALLOW FOCUSED RESISTIVITY OHMM**
10000 — 0	0.2 — 2000.0
RXO/RT	
-160 — 40	

*** Borehole Zone Factors ***

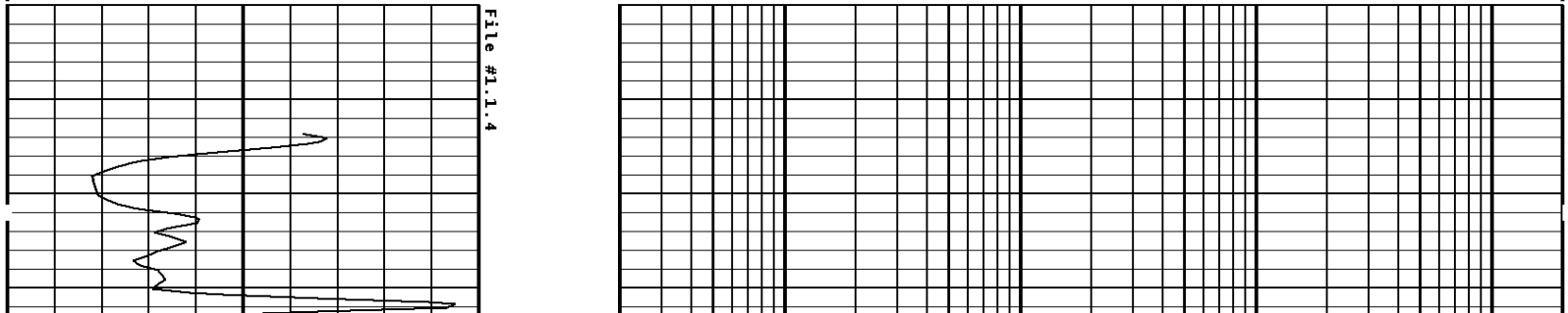
Zone 1 99999.0 to 0.0 Feet

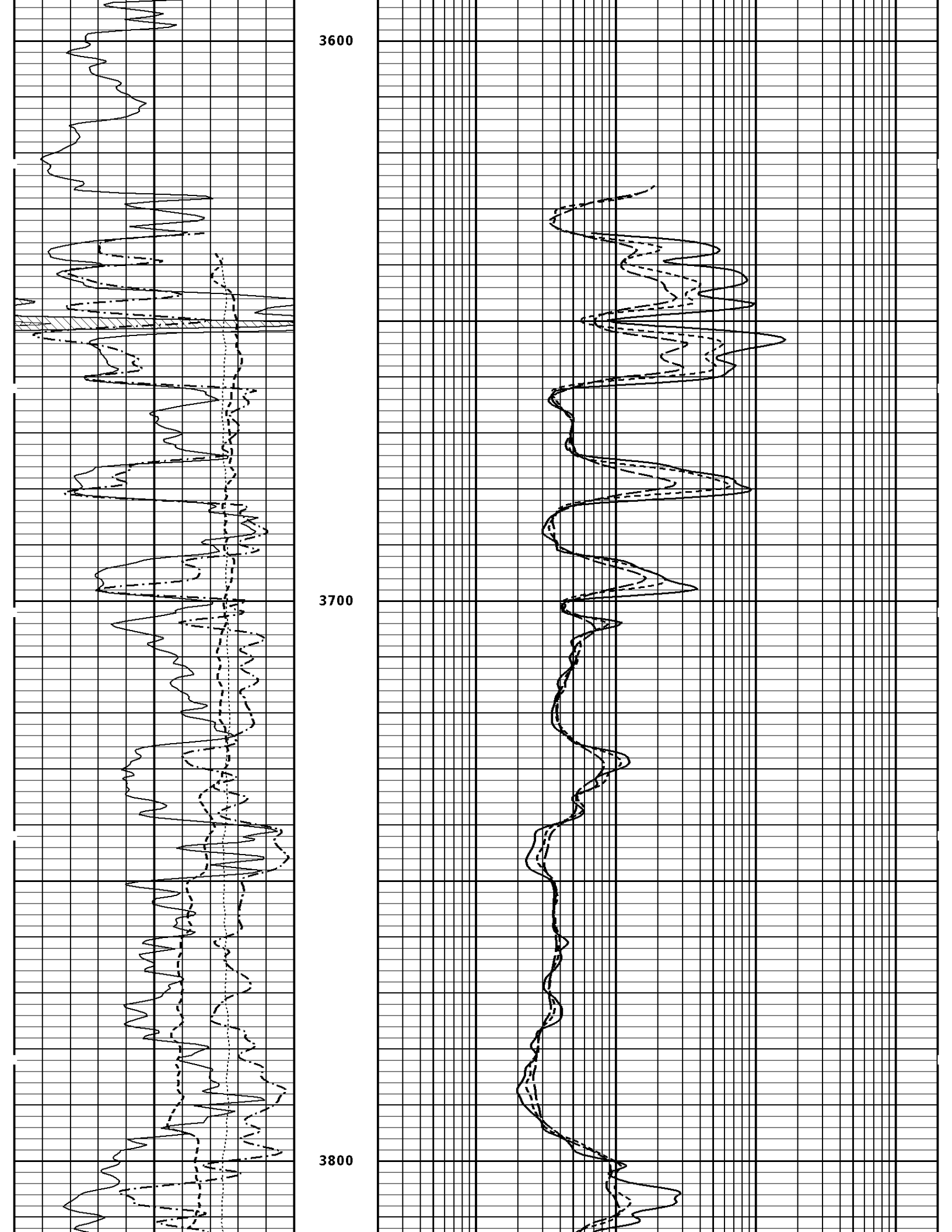
Drill Bit Size	7.875	in
Resistivity Of Mud	1.400	ohm/m
Resistivity Of Mud Temperature	78.00	degF

Well File: and-ene-eat-tr-1-quint-jun-29 **Scale:** 1:240
Segment: V1.D1.S4 RP **Acquired:** 2012-06-29 09:07 3.2.0-10932
Reference: 0 **Processed:** 2012-06-29 11:06 3.2.0-10932

RXO/RT	SHALLOW FOCUSED RESISTIVITY OHMM
-160 — 40	0.2 — 2000.0
TENSION LBS	**MEDIUM INDUCTION OHMM**
10000 — 0	0.2 — 2000.0
SPONTANEOUS POTENTIAL mV	**DEEP INDUCTION OHMM**
→| |←20	0.2 — 2000.0
GAMMA RAY API UNITS	
150 / 0 — 300 / 150	

1:240 REPEAT SECTION

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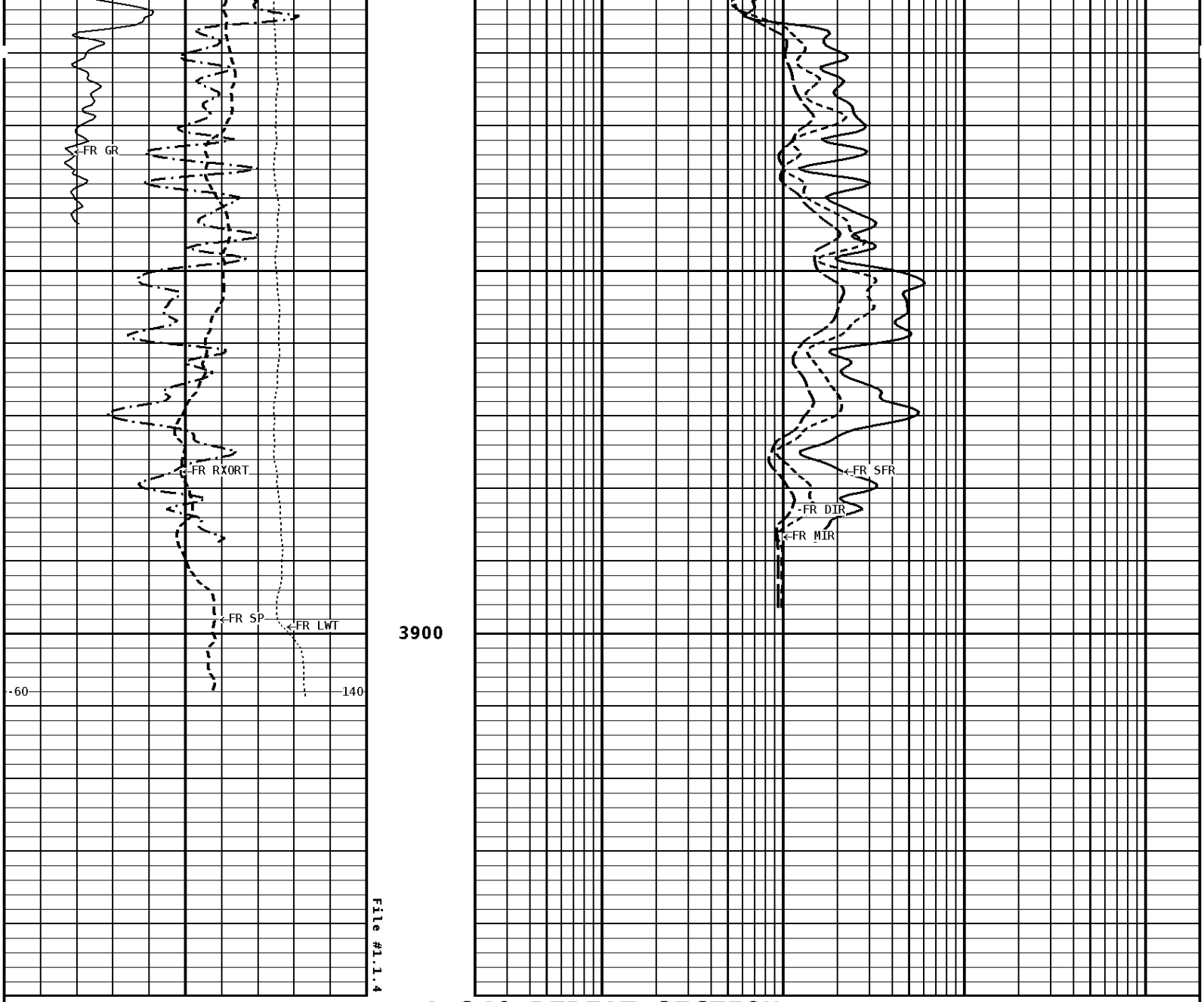
3800



1:240 REPEAT SECTION

GAMMA RAY
API UNITS
150 — 300
0 — 150

SPONTANEOUS POTENTIAL
mV
→| |←20

TENSION
LBS
10000 — 0

RXO/RT
-160 — 40

DEEP INDUCTION
OHMM
0.2 — 2000.0

MEDIUM INDUCTION
OHMM
0.2 — 2000.0

SHALLOW FOCUSED RESISTIVITY
OHMM
0.2 — 2000.0

*** Borehole Zone Factors ***

Zone 1 99999.0 to 0.0 Feet

Drill Bit Size	7.875	in
Resistivity Of Mud	1.400	ohm/m
Resistivity Of Mud Temperature	78.00	degF

* Calibration Summary *

Shop Calibration GRT-B

Performed : 04-APR-2011 Time : 19:28
Sensor Suite : GR-GR5 ID : GRT-BC-41

	Measured Background	Measured Jig	Units	Calibrated Jig	Units
GR	46	346	CPS	175	GRAPI

Shop Calibration PIT-CA

Performed : 09-MAR-2012 Time : 15:54
Sensor Suite : P-IND-T ID : PIT-AC-022

Medium

	Measured R	Measured X	Calibrated R	Calibrated X	Units
Air	129413	131202	-7.0	-7.0	MMHOS
Zero	131066	131071	65.6	-17.0	MMHOS
Reference	248746	249346	5065.6	4983.0	MMHOS
Loop	147468	174966	2610.2	1076.0	MMHOS
Sonde Error			-2.1	-6.8	MMHOS
Cond			5065.6	4983.0	MMHOS

Deep

	Measured R	Measured X	Calibrated R	Calibrated X	Units
Air	129586	130432	0.0	0.0	MMHOS
Zero	131077	131073	31.9	6.9	MMHOS
Reference	238783	239471	2031.9	2006.9	MMHOS
Loop	148920	177248	1222.8	504.8	MMHOS
Sonde Error			-0.8	-9.2	MMHOS
Cond			2031.9	2006.9	MMHOS

Temperature

Measured Low	Measured High	Calibrated Low	Calibrated High	Units
16980.0	56920.0	70.0	350.0	DEGF

Performed : 30-Jan-2012 Time : 11:24
Sensor Suite : SFL ID : PIT-AC-022

Internal

	Measured Zero	Measured Reference	Calibrated Zero	Calibrated Reference	Units
Im	32763.2	50516.1	0.0	7028.0	uA
Ib	32769.0	50217.9	0.0	1750.0	mA
MOM1	32796.4	60221.5	0.0	175.0	mV
Equivalent SFL				43.97	OHMM

Performed : 30-Jan-2012 Time : 11:26
Sensor Suite : P-SP ID : PIT-AC-022

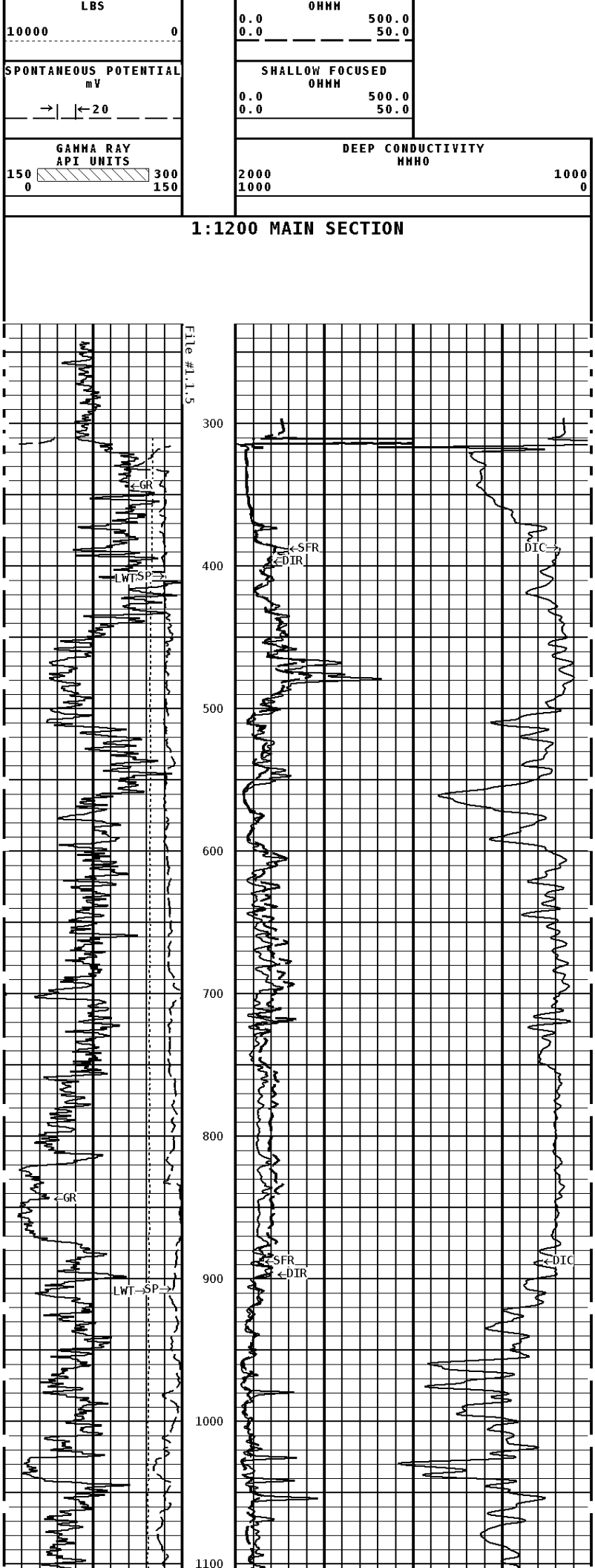
Internal

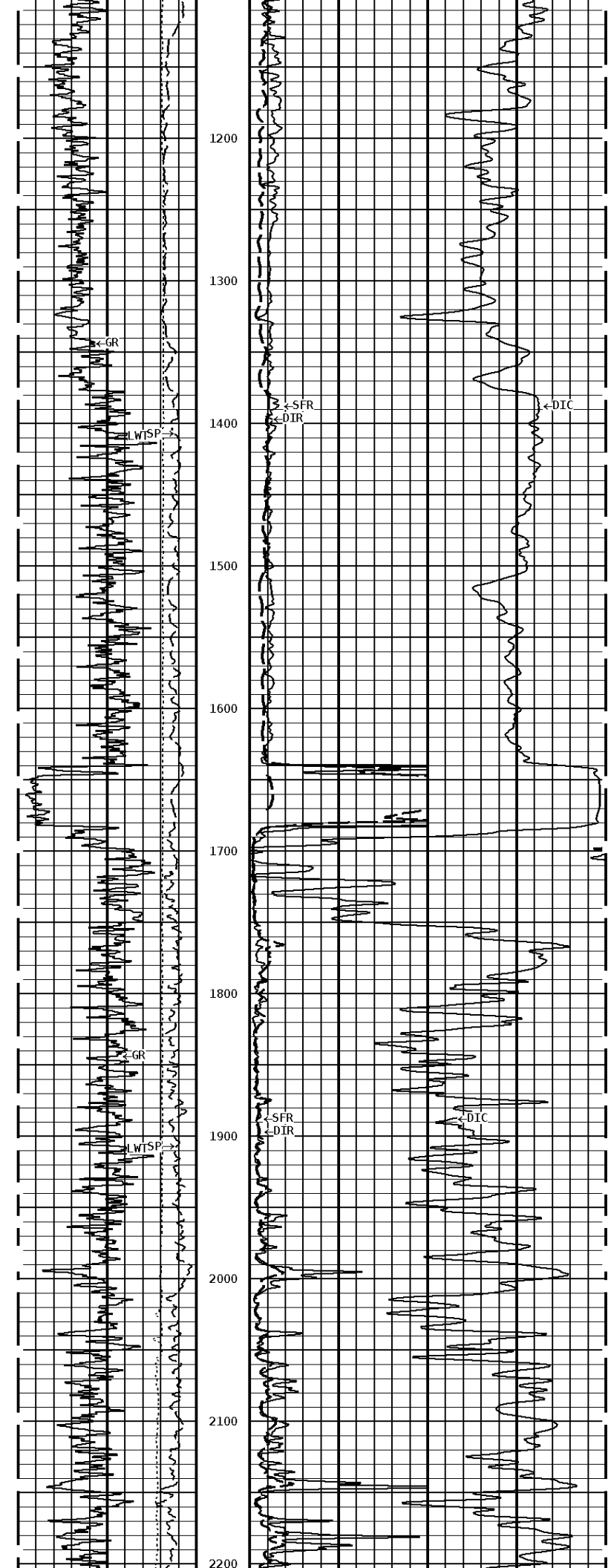
Measured Zero	Measured Reference	Calibrated Zero	Calibrated Reference	Units
32785.2	58904.5	0.0	1000.0	mV

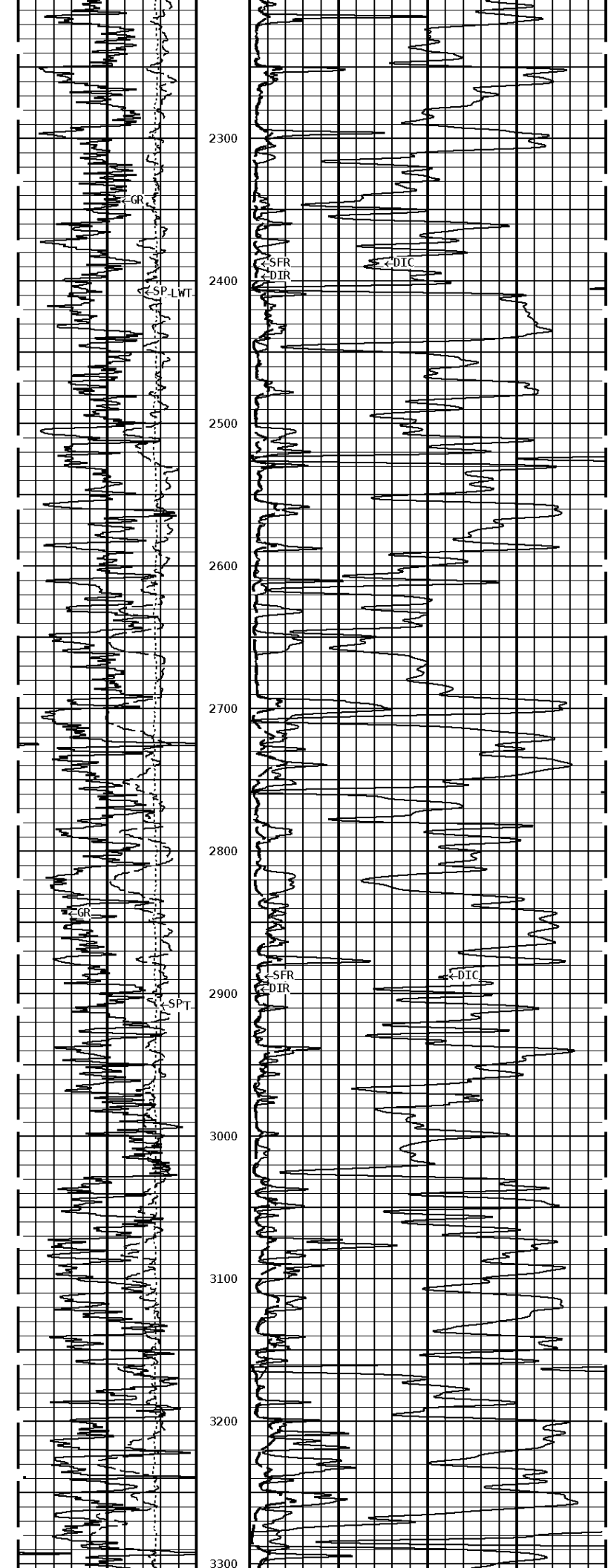
Performed : 18-Jan-2007 Time : 12:24
Sensor Suite : P-RMUD ID : PIT-AC-022

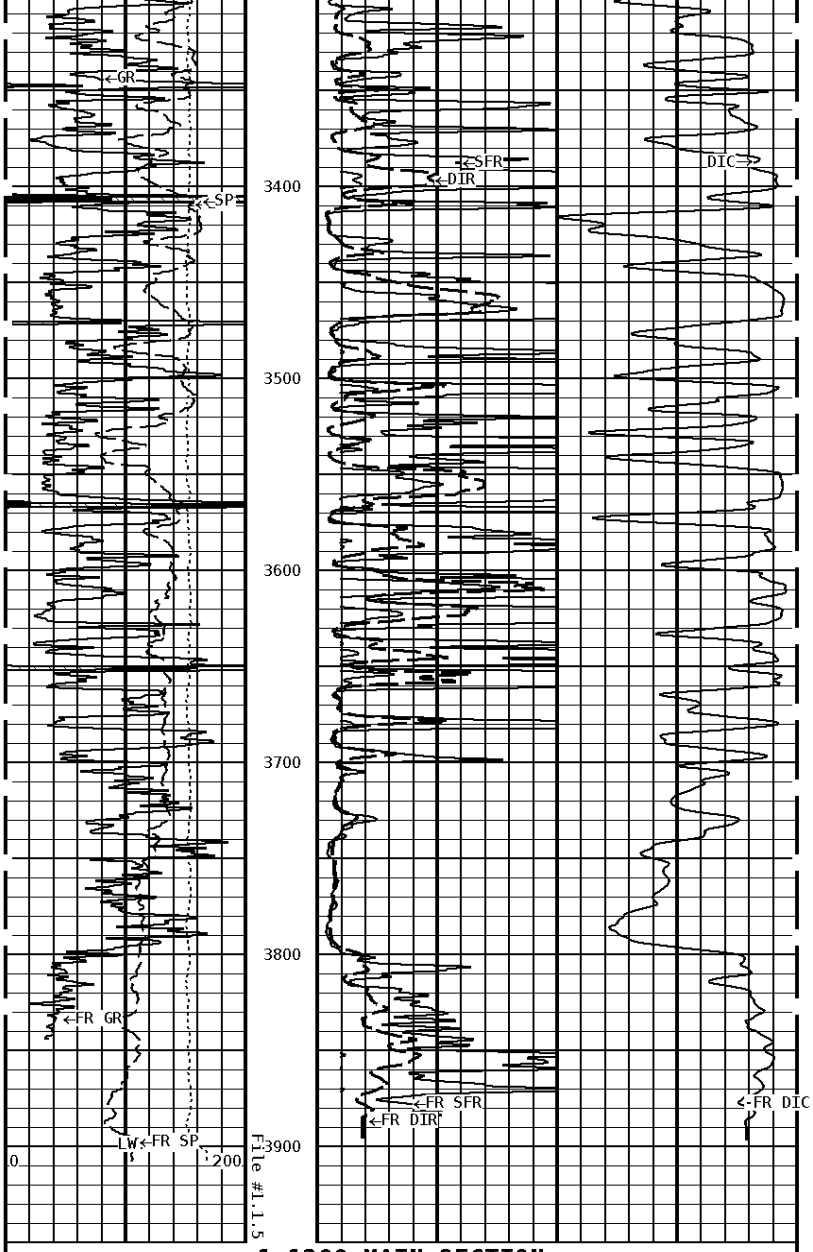
Internal

	Measured Zero	Measured Reference	Calibrated Zero	Calibrated Reference	Units
Rmi	8.3	54204.1	0.0	290.6	mA
Rmv	8.2	54136.7	0.0	290.6	mV
Equivalent Rm				0.9037	OHMM


LBS
10000
0
OHMM
0.0
500.0
0.0
50.0
SPONTANEOUS POTENTIAL
mV
20
SHALLOW FOCUSED
OHMM
0.0
500.0
0.0
50.0
GAMMA RAY
API UNITS
150
300
0
150
DEEP CONDUCTIVITY
MMHO
2000
1000
1000
0
1:1200 MAIN SECTION
File #1.1.5
300
400
500
600
700
800
900
1000
1100
GR
SFR
DIR
LWT
SP
DIC


1200
1300
GR
SFR
DIR
DIC
1400
LWT
SP
1500
1600
1700
1800
GR
SFR
DIR
DIC
1900
LWT
SP
2000
2100
2200


2300
GR
SFR
DIR
DIC
2400
SP_LWT
2500
2600
2700
2800
GR
SFR
DIR
DIC
2900
SPT
3000
3100
3200
3300



1:1200 MAIN SECTION

GAMMA RAY
API UNITS
150 300
0 150

SPONTANEOUS POTENTIAL
mV
→|←20

TENSION
LBS
10000 0

DEEP CONDUCTIVITY
MMHO
2000 1000
1000 0

SHALLOW FOCUSED
OHMM
0.0 500.0
0.0 50.0

DEEP INDUCTION
OHMM
0.0 500.0
0.0 50.0