

Tucker

WIRELINER SERVICES PHASED INDUCTION

SHALLOW FOCUS SP LOG

Company: ANDERSON ENERGY, INC.
Well: KING B #1
Field: MESERVE
County: TREGO
State: KANSAS
Country: USA
API No.: 015-195-22790-00-00

File No.: TUL-57087
Company: ANDERSON ENERGY, INC.
Well: KING B #1
Field: MESERVE
County: TREGO
State: KANSAS
Country: USA
API No.: 015-195-22790-00-00

Location:
 1555' FSL & 1000' FEL
 SW SW NE SE

LSD: **Sect:** 12 **Twp:** 15S **Rge:** 21W

Permanent Datum:	GL	Elevations:		Services:	
Drilling Measured From:	KB	KB 2148.00	Ft	CNT	
Log Measured From:	KB	DF 2147.00	Ft	LDT	PIT
Above Permanent Datum:	9.00 Ft	GL 2139.00	Ft	MLT	
Date:	2012-06-08				
Run Number	1				
Depth--Driller	4000.0	Ft			
Depth--Logger	3998.0	Ft			
First Reading	3997.0	Ft			
Last Reading	307.0	Ft			
Casing--Driller	307.0	Ft			
Casing--Logger	307.0	Ft			
Bit Size	7.875	In			
Casing Size	8.625	In			
Hole Fluid Type	CHEMICAL				
Density	9.3 LBS/GAL				
Fluid Loss	7.2 CC				
PH/Viscosity	10.5		59.0 SEC		
Sample Source	MEASURED				
RMF@Measured Temp.	0.500	@ 85 F			
RMF@Measured Temp	0.400	@ 85 F			
RMF@Measured Temp.	0.600	@ 85 F			
Source RMF/RMC	CALCULATED/CALCULATED				
RM@BHT	0.350 @ 121 F				
Time Circulation Stopped	2012-06-08 10:00				
Max Recorded Temp.	121		F		
Equipment/Base	TRK 127		TULSA		
Recorded By	R. AUSTIN				
Witnessed By	R. MARTIN				

The customer is hereby warned that by providing the log data herein, Tucker Technologies, Inc. does not agree to provide any interpretation of log data, conversion of log data to physical rock parameters or recommendations. Tucker Technologies, Inc. does not guarantee or warrant either expressly or impliedly, the accuracy of any interpretation of log data, conversion of log data to physical rock parameters or recommendations which may be given by Tucker Technologies, Inc. personnel. Any interpretation, conversion or recommendation is not part of the consideration for the agreement between the parties and is not part of any part of the charge by Tucker Technologies, Inc. for its services. Any user of the log data is warned that said user is not entitled to rely on interpretations, conversions or recommendations as aforesaid.

Bitsize Intervals		Casing Strings		
Size (In)	Bottom (Ft)	Size (In)	Weight (Lbs)	Bottom (Ft)
7.875	4000.00	8.625	32.00	307.00

Run Number	1	
Date	2012-06-08	
Date/Time On Bottom	2012-06-08 13:45	
Depth to Fluid	0.0	Ft
Salinity	3500.000	PPM
RMF@BHT	0.280 @ 121 F	
RMC@BHT	0.420 @ 121 F	

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 USING 5.500" PRODUCTION CASING.

POROSITY/MICRO DETAIL PRESENTED FROM TD TO 3000' AS PER CUSTOMER REQUEST.

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

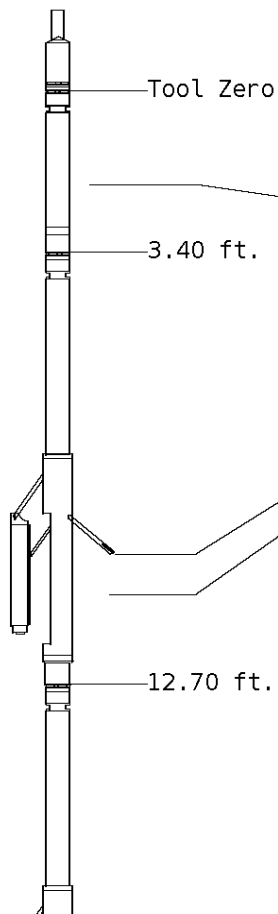
OPERATORS:

J. TORBERT
 N. BURDEN
 M. RUBY

MM=3.2

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-AB-400

Source ID :N-1044

Pad ID :CNP-AA-116

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

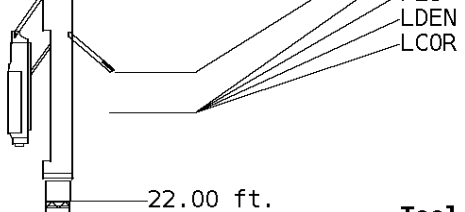
Tool: LDT-DA **Length:** 9.30 ft. **O.D.** 4.80 in.
 Litho Density D Pad on NDT-A

Sonde ID :PDT-GA-469

Source ID :CSV-587

Pad ID :LDP-DA-02

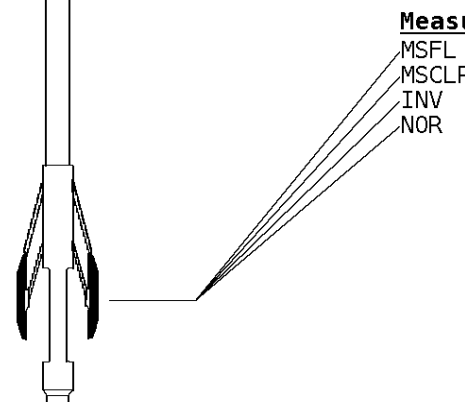
Measure Point	Tool Offset	Stack Offset	Bottom Offset
CLLD	6.00	18.70	48.25
PEL	7.00	19.70	47.25
PES	7.40	20.10	46.85



7.20 19.90 47.05
 7.20 19.90 47.05

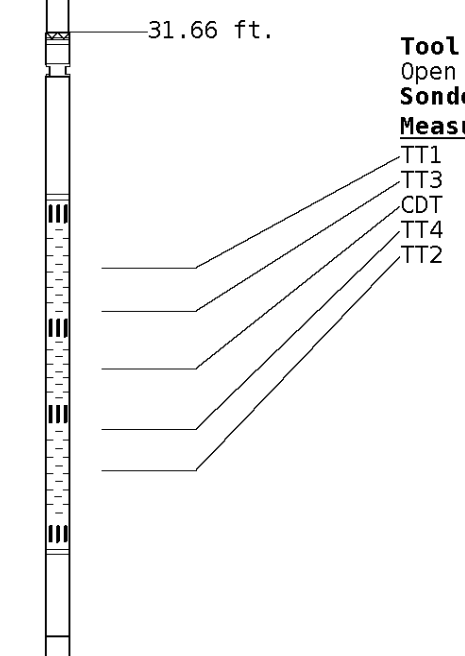
Tool: MST-DA **Length:** 9.66 ft. **O.D.** 6.00 in.
 Micro Spherically Focused (IC)
Sonde ID :MST-DA-29

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



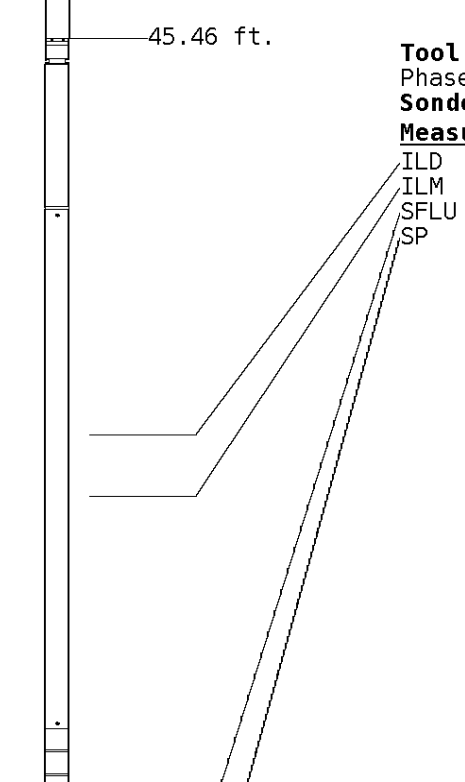
Tool: CST-AD **Length:** 13.80 ft. **O.D.** 3.60 in.
 Open Hole Sonic
Sonde ID :CST-AB-012

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



Tool: PIT-CA **Length:** 21.49 ft. **O.D.** 3.62 in.
 Phased Dual Induction w/ RM & D
Sonde ID :PIT-AC-13

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



LWT 66.95 ft.

Well File: ANDERSON KING-B-1 JUN8 QSTK

Scale: 1:600

Segment: V1.D1.S7 Reprocess of Main segment

Acquired: 2012-06/08 14:02 3.2.0-10990

Reference: 0

Processed: 2012-06/08 16:01 3.2.0-10990

RXO/RT

-160 40

TENSION
LBS

10000 0

SPONTANEOUS POTENTIAL
mV

→ ← 20

GAMMA RAY
API UNITS

150 0 300 150

SHALLOW FOCUSED RESISTIVITY
OHMM

0.0 500.0
0.0 50.0

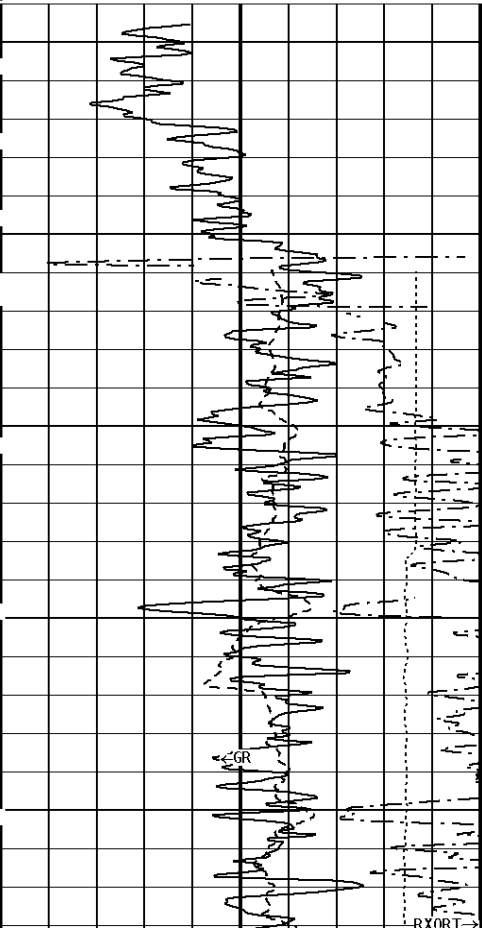
DEEP INDUCTION
OHMM

0.0 500.0
0.0 50.0

DEEP CONDUCTIVITY
MMHO

2000 1000 1000 0

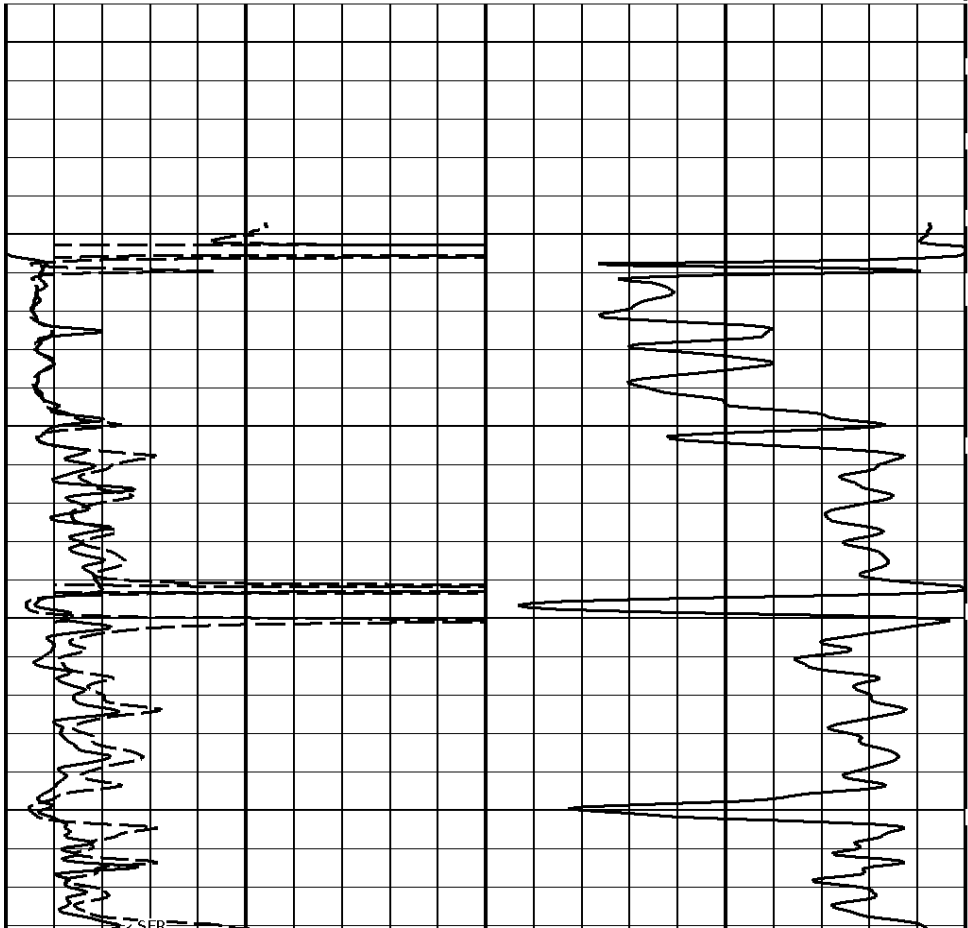
1:600 SECTION
2 INCH

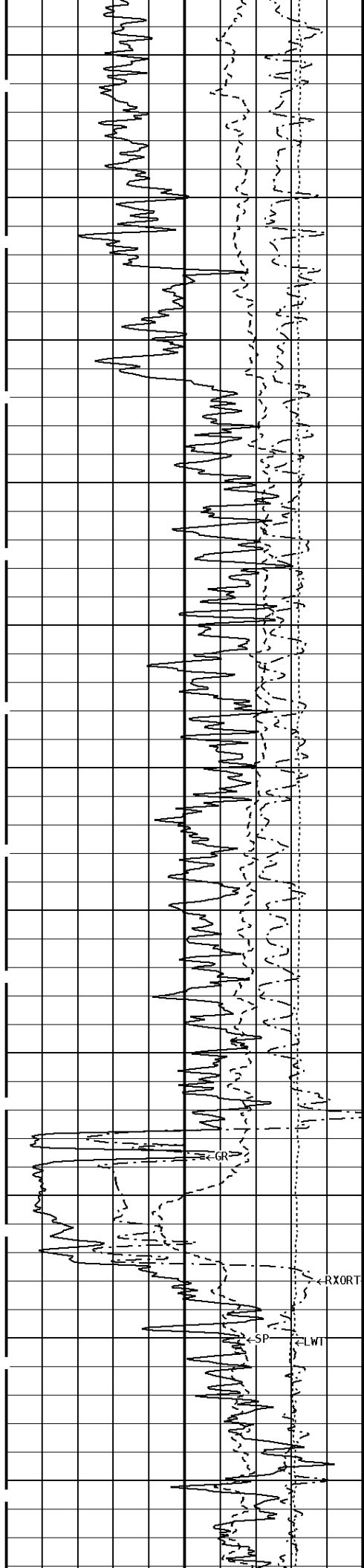


File #1.1.7

300

400





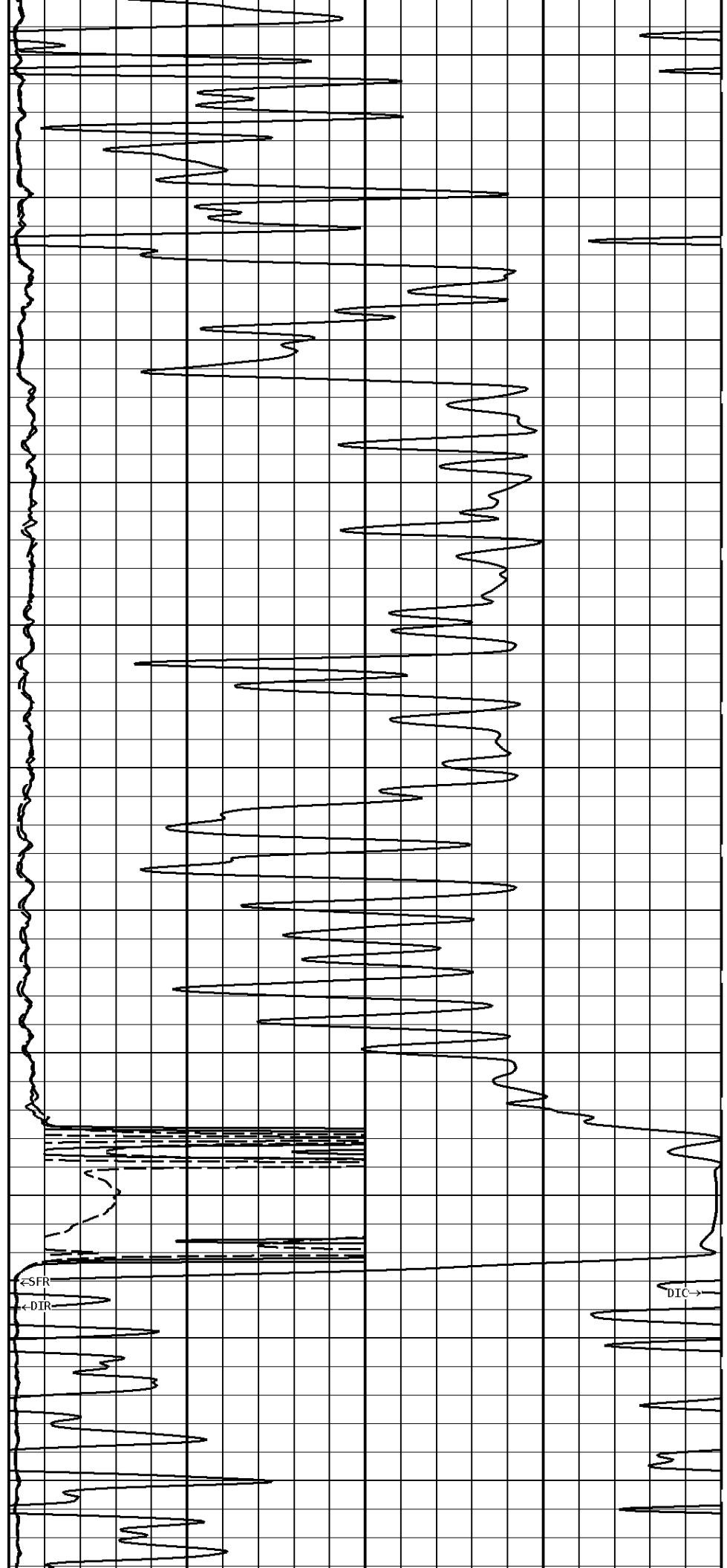
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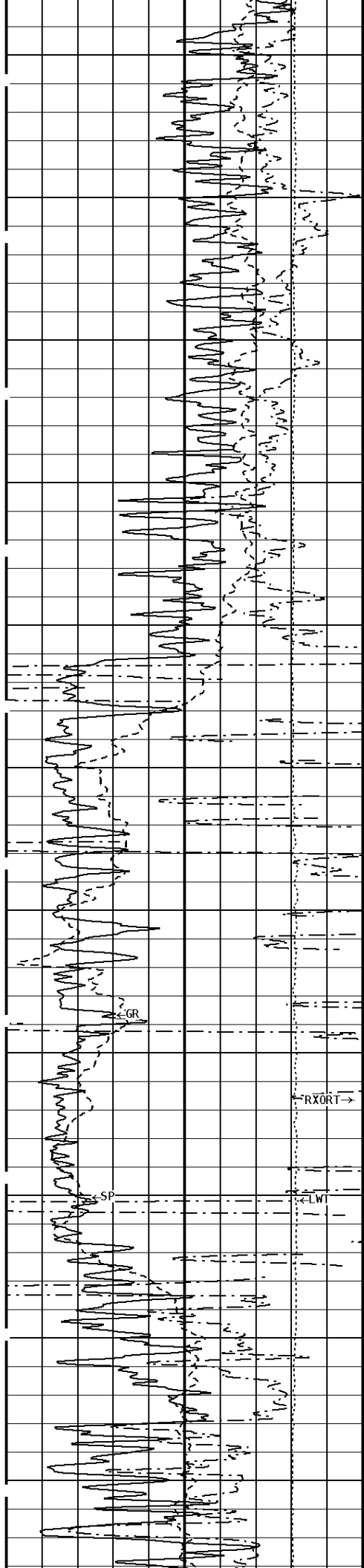
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1400

1500



DIC →



1600

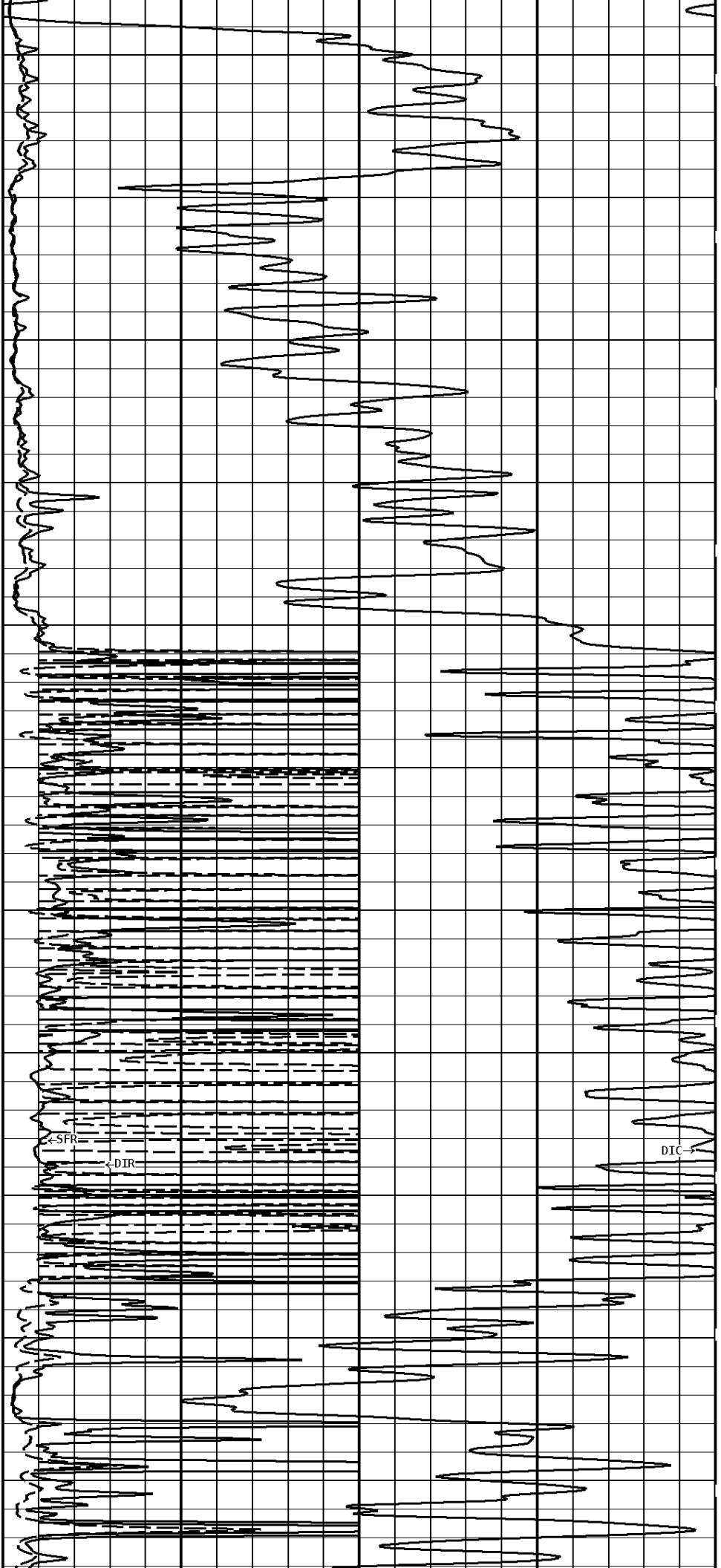
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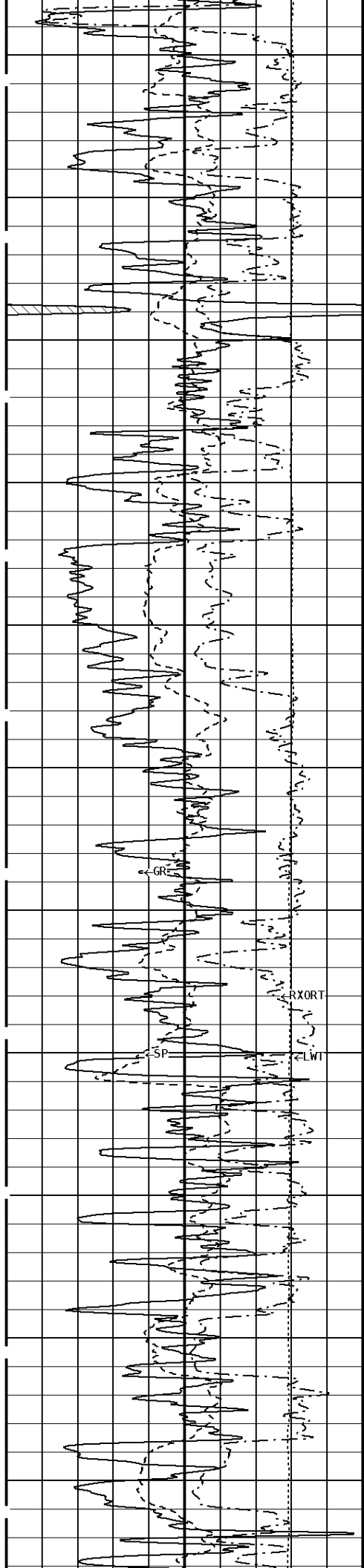
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1900

2000

2100





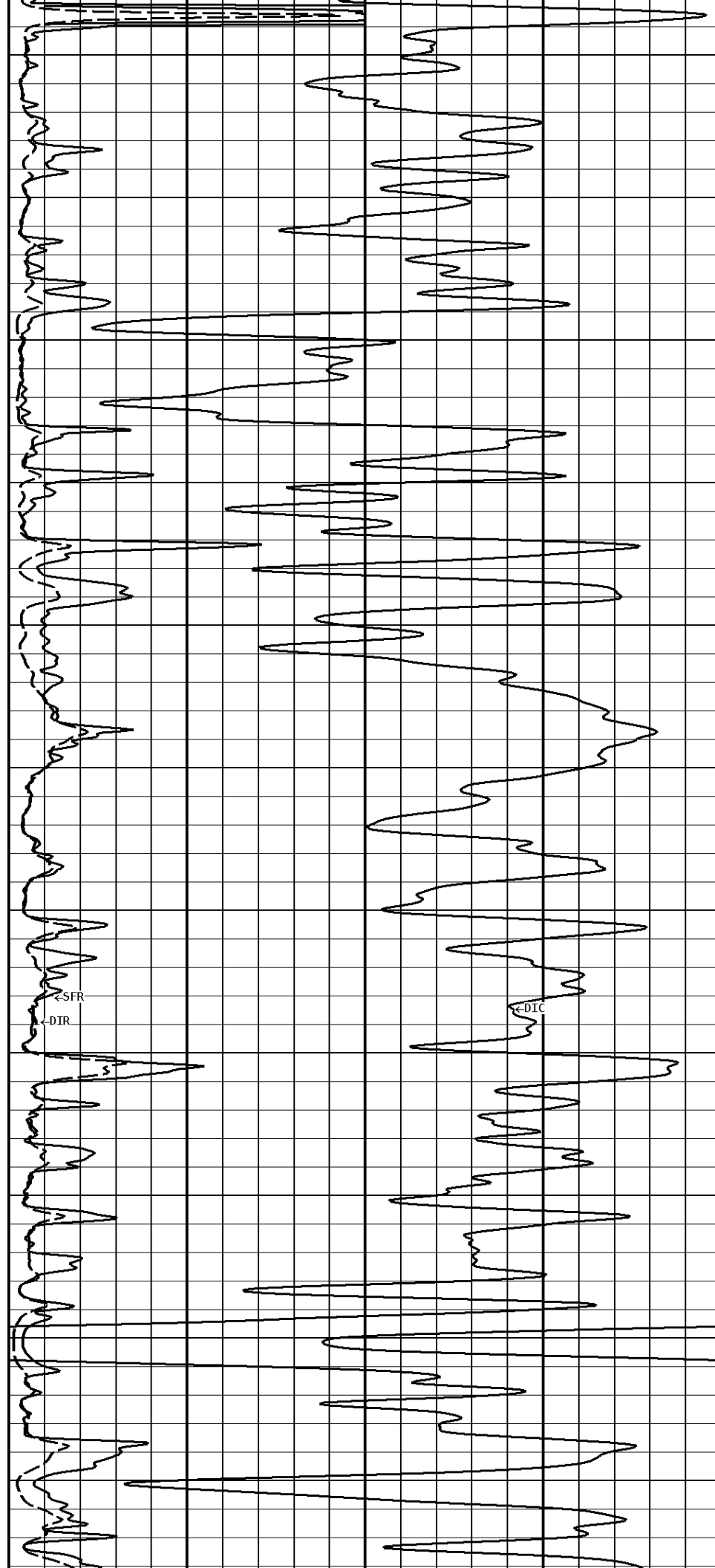
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2300

2400

2500

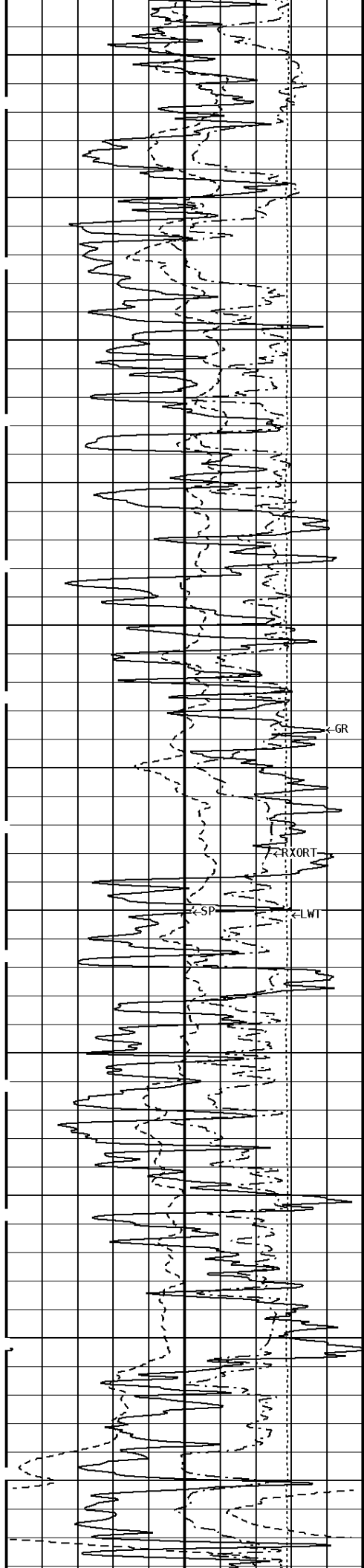
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SFR

DIR

DTC



2700

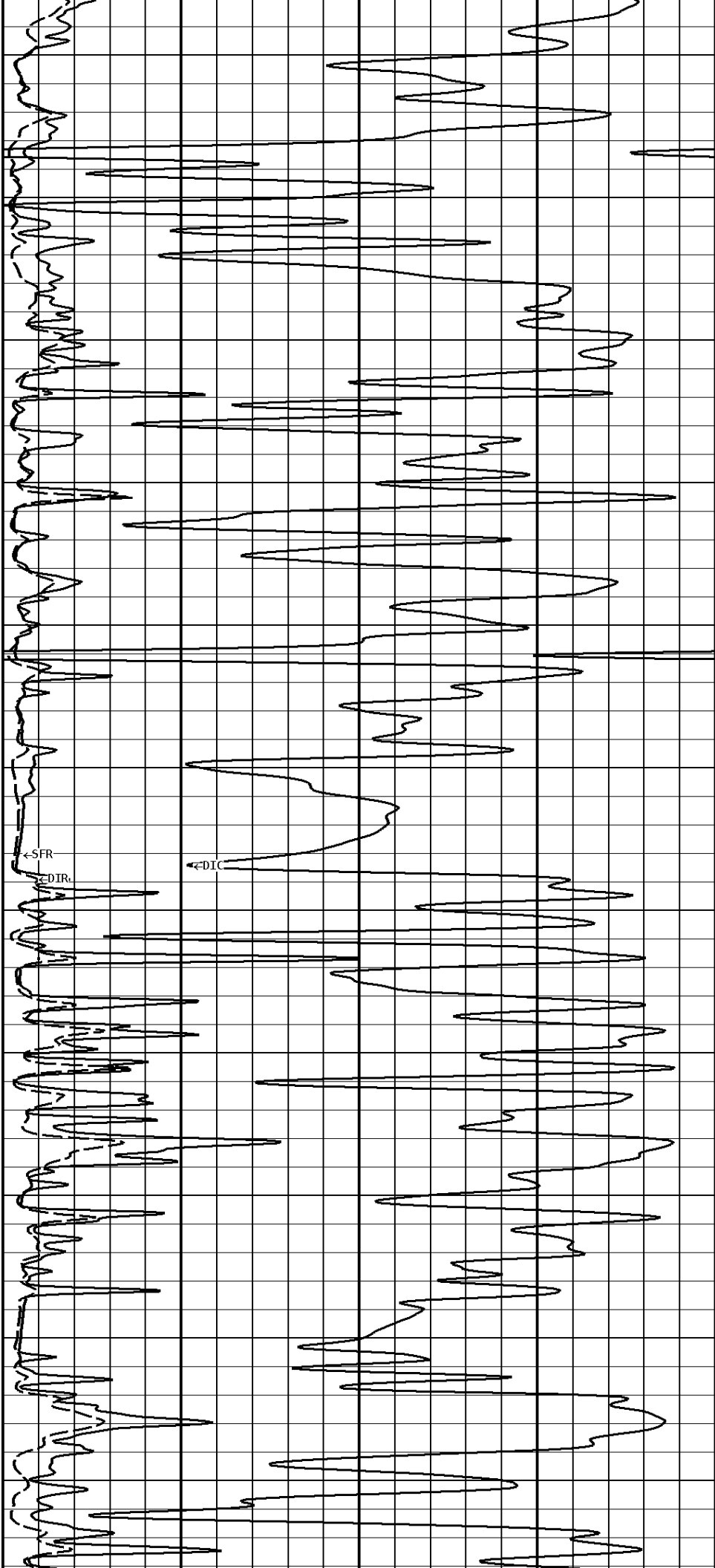
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2900

3000

3100

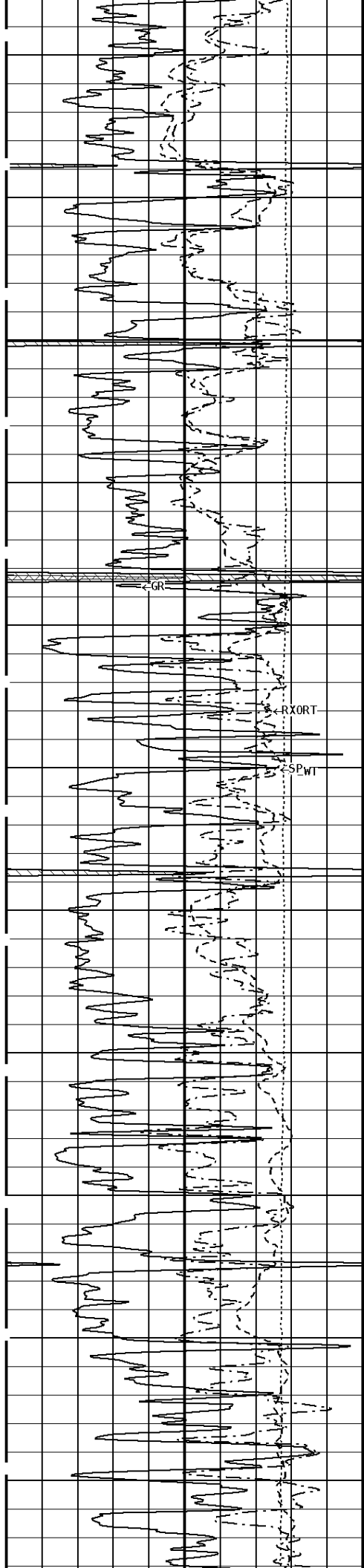
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←SFR

←DIR

←DIC



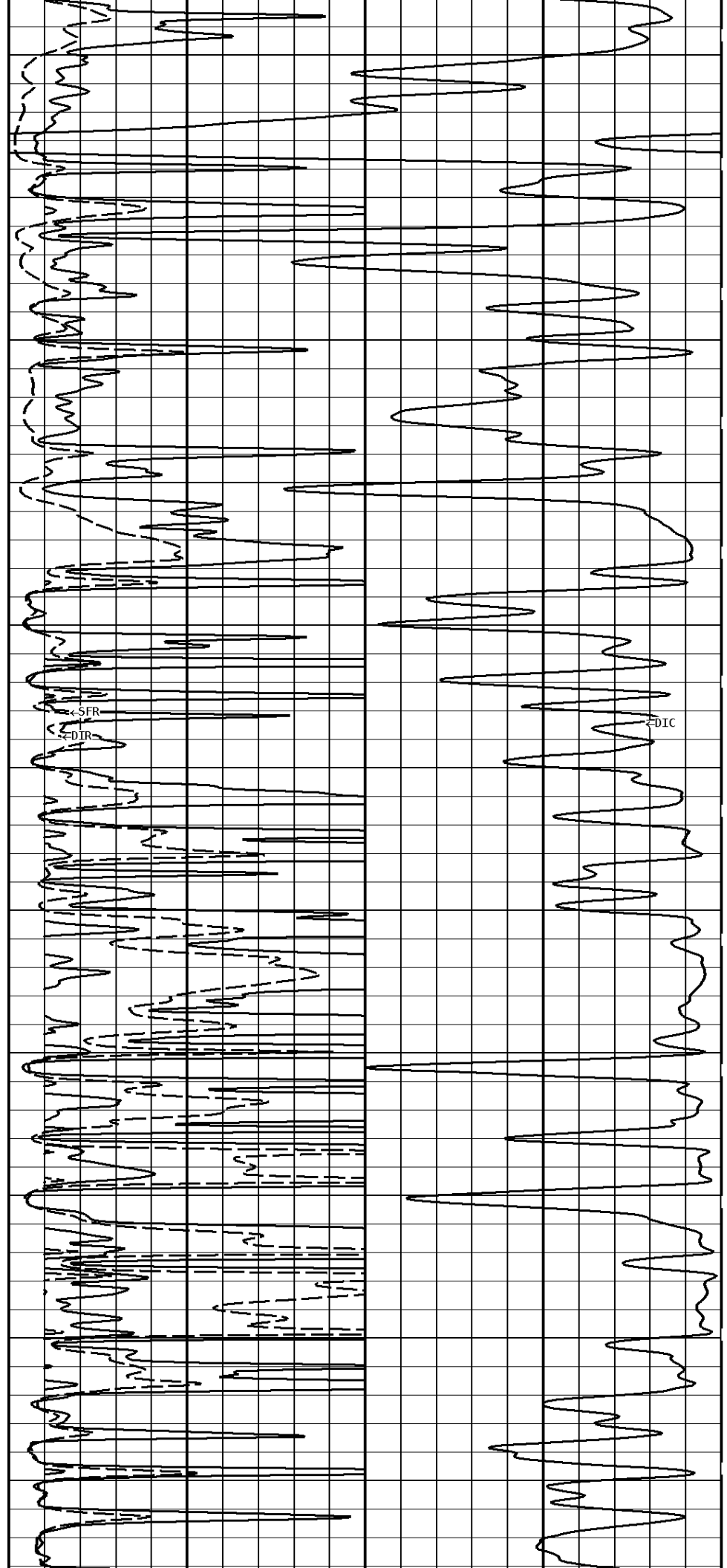
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3400

3500

3600

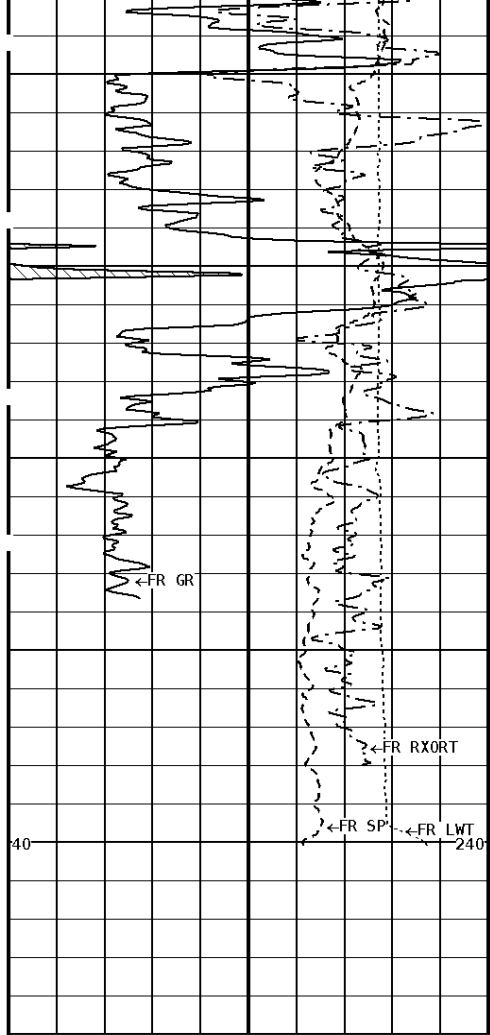
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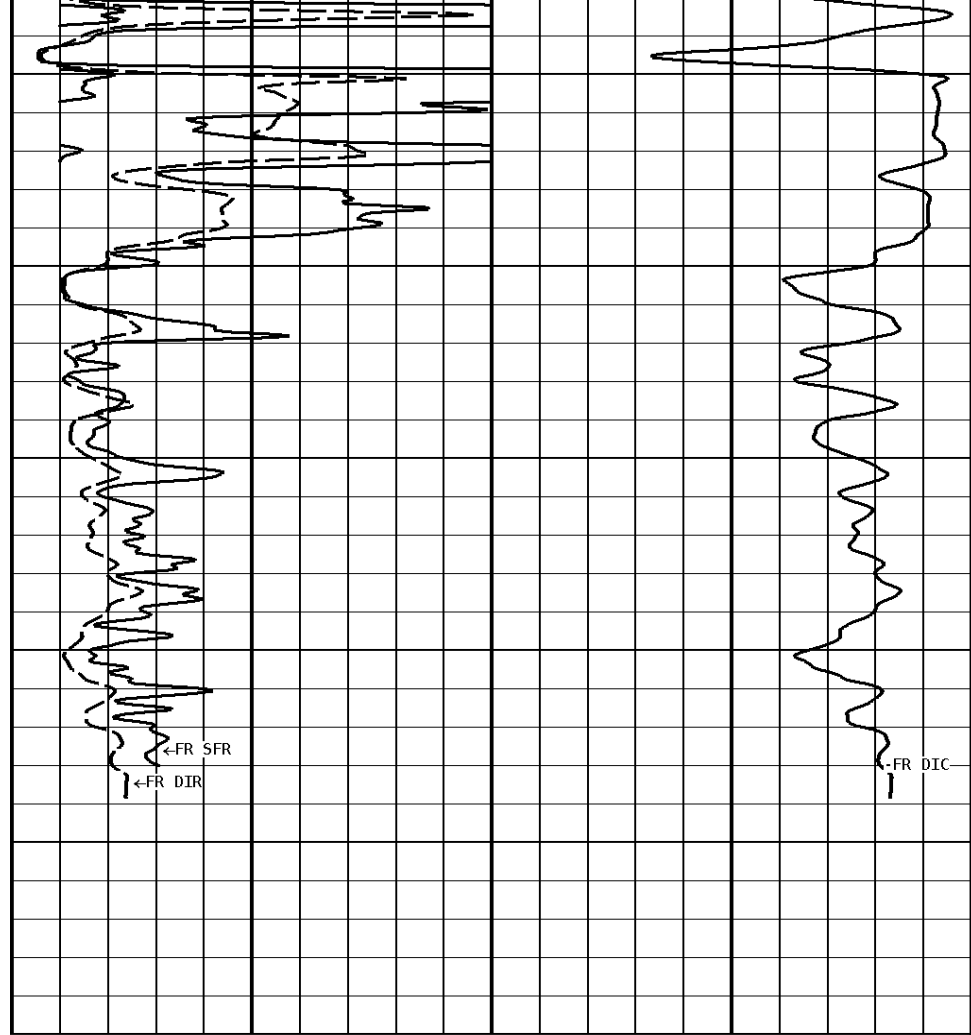
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DTR

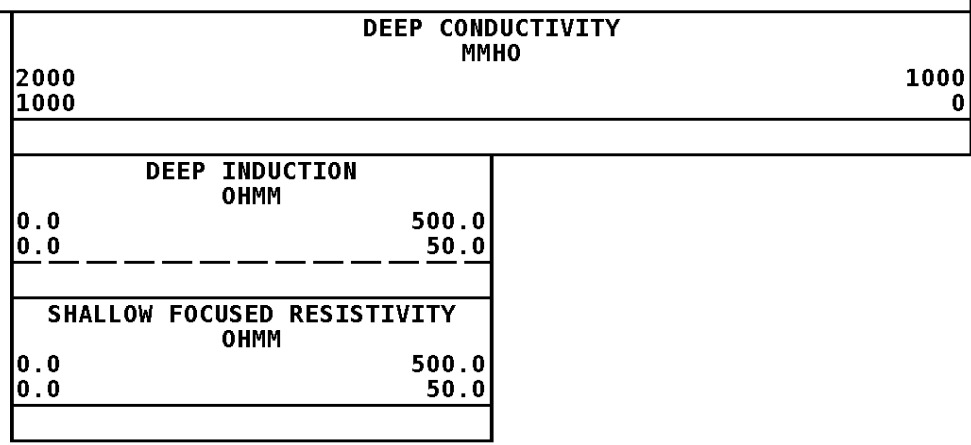
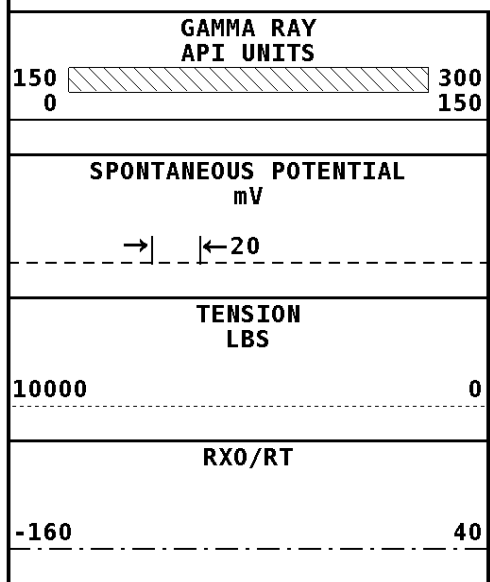
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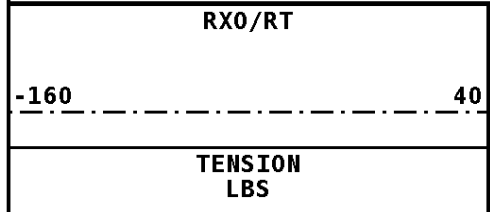
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3900
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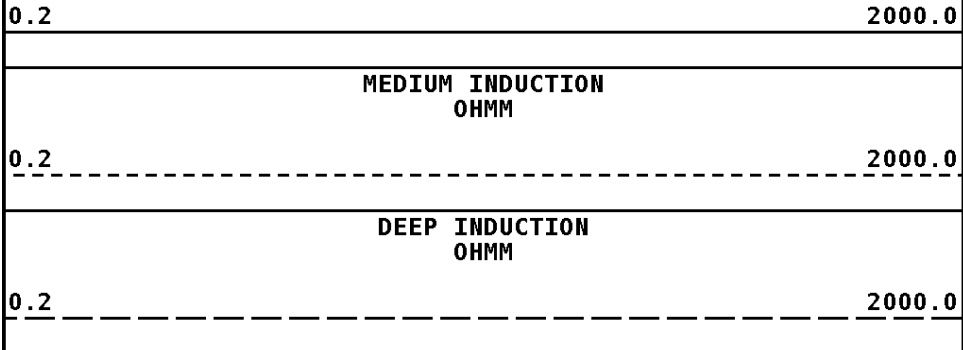
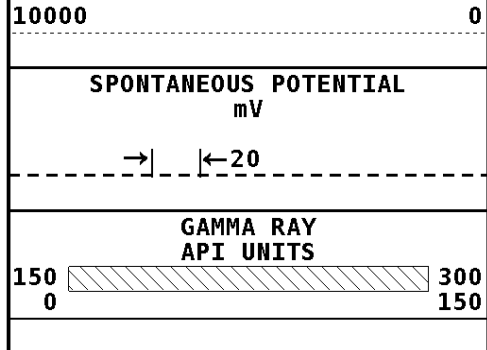


1:600 SECTION
2 INCH

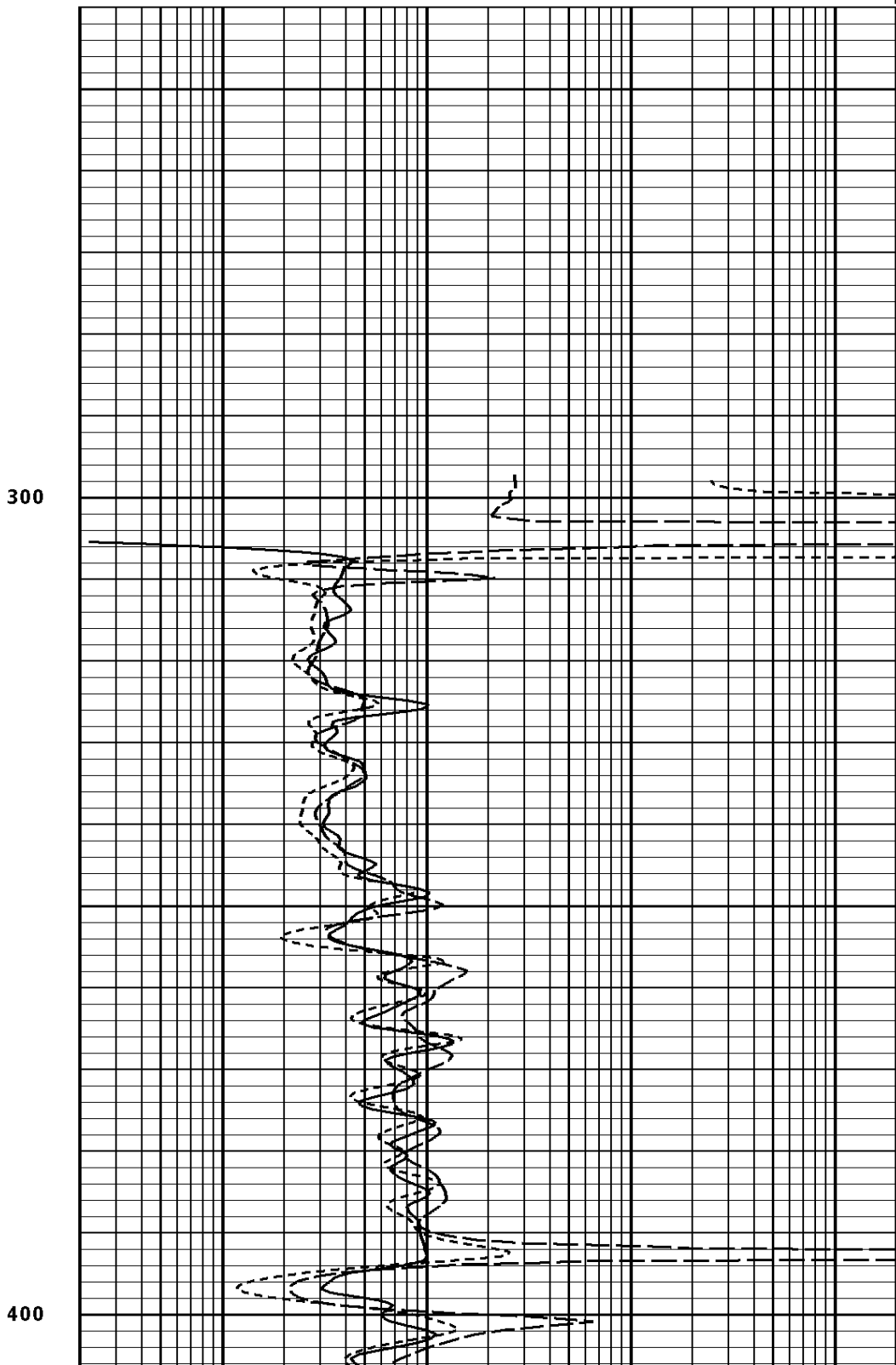
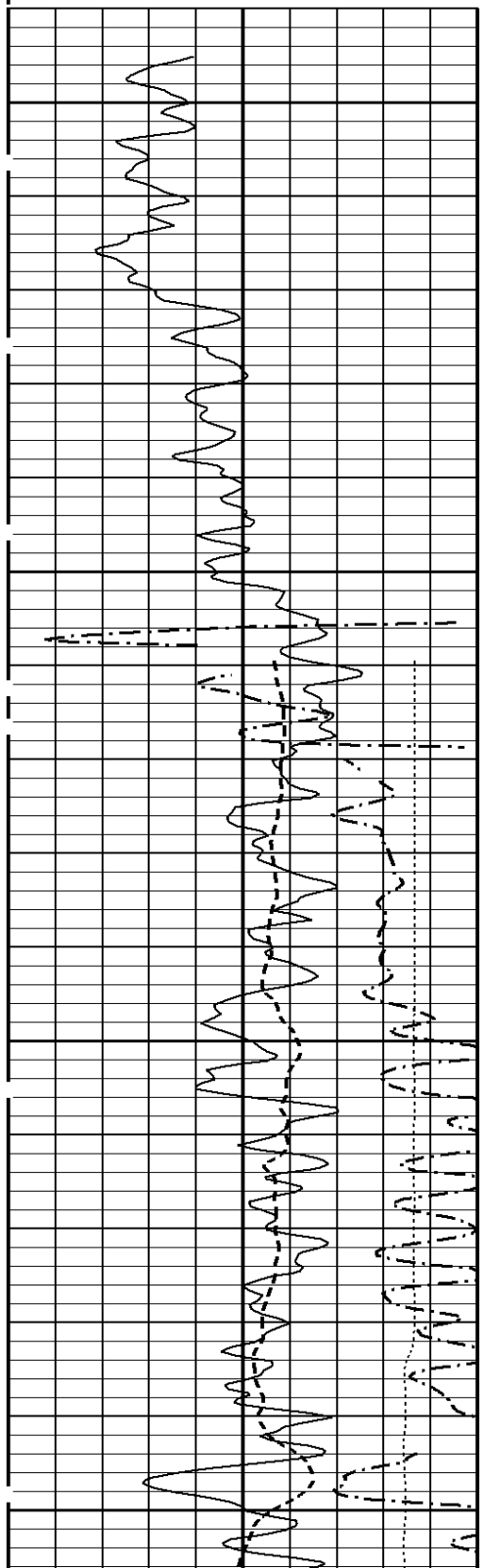


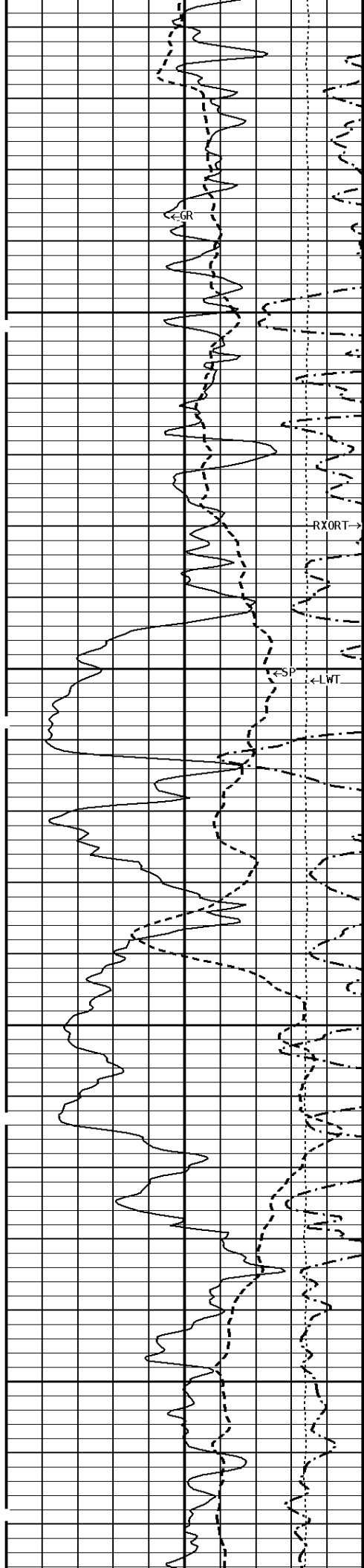
Well File: ANDERSON KING-B-1 JUN8 QSTK	Scale: 1:240
Segment: V1.D1.S7 Reprocess of Main segment	Acquired: 2012-06/08 14:02 3.2.0-10990
Reference: 0	Processed: 2012-06/08 16:01 3.2.0-10990





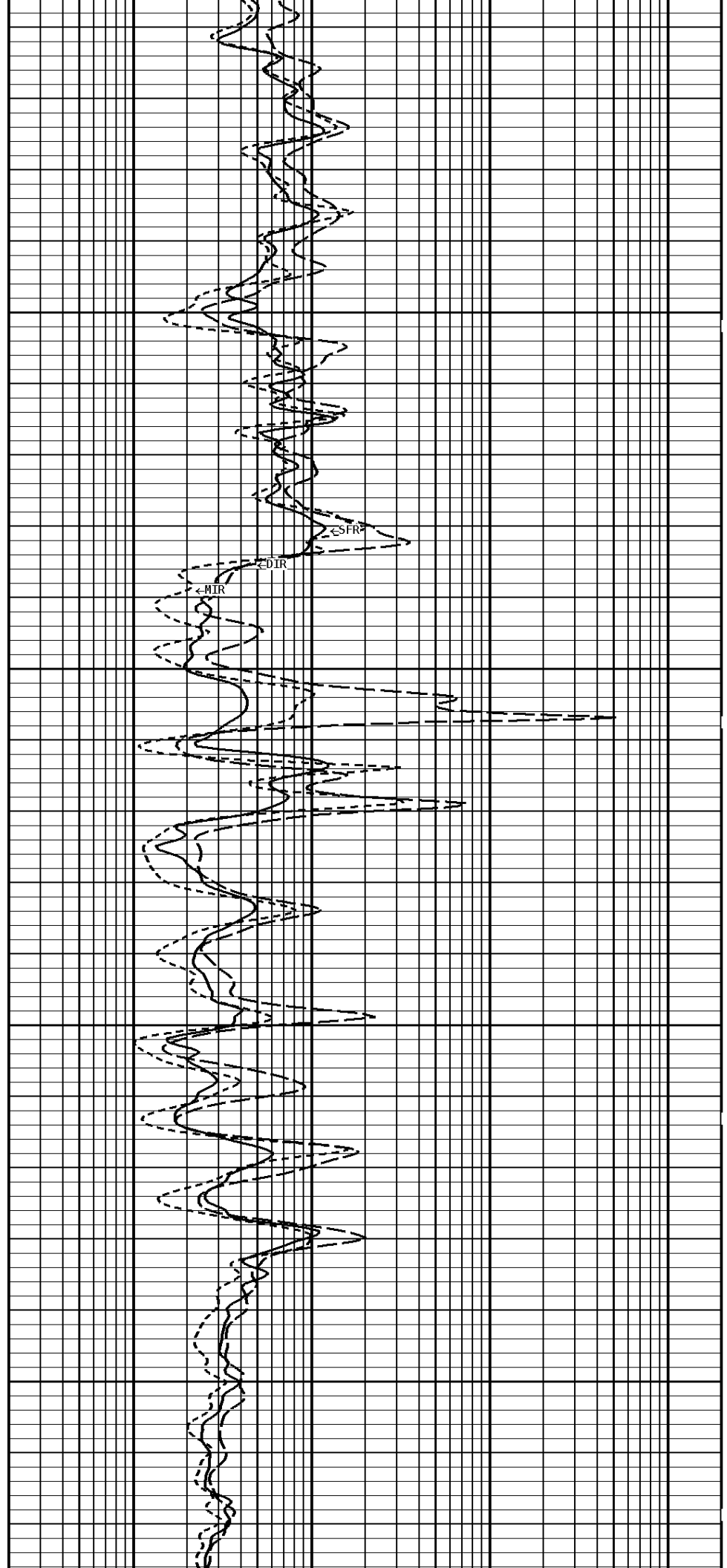
1:240 MAIN SECTION

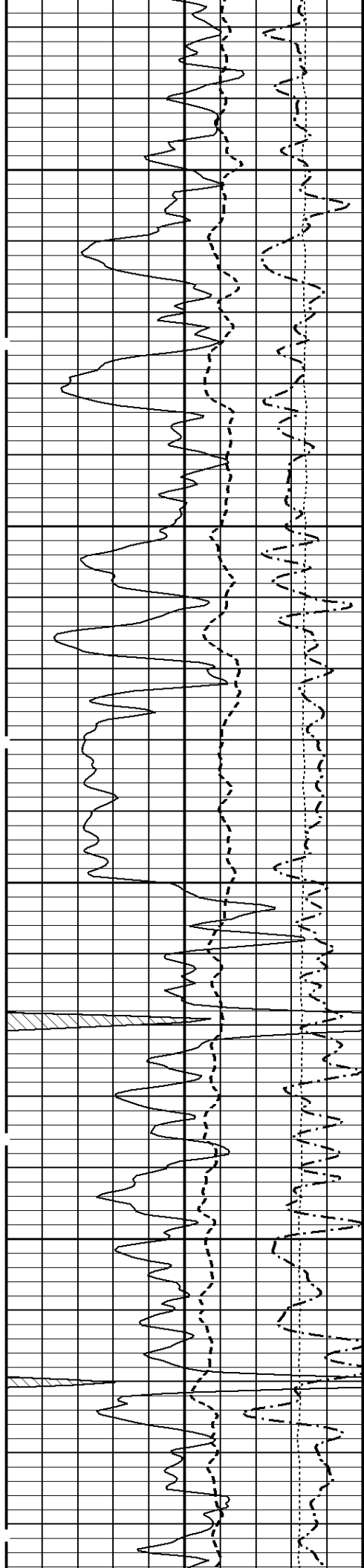




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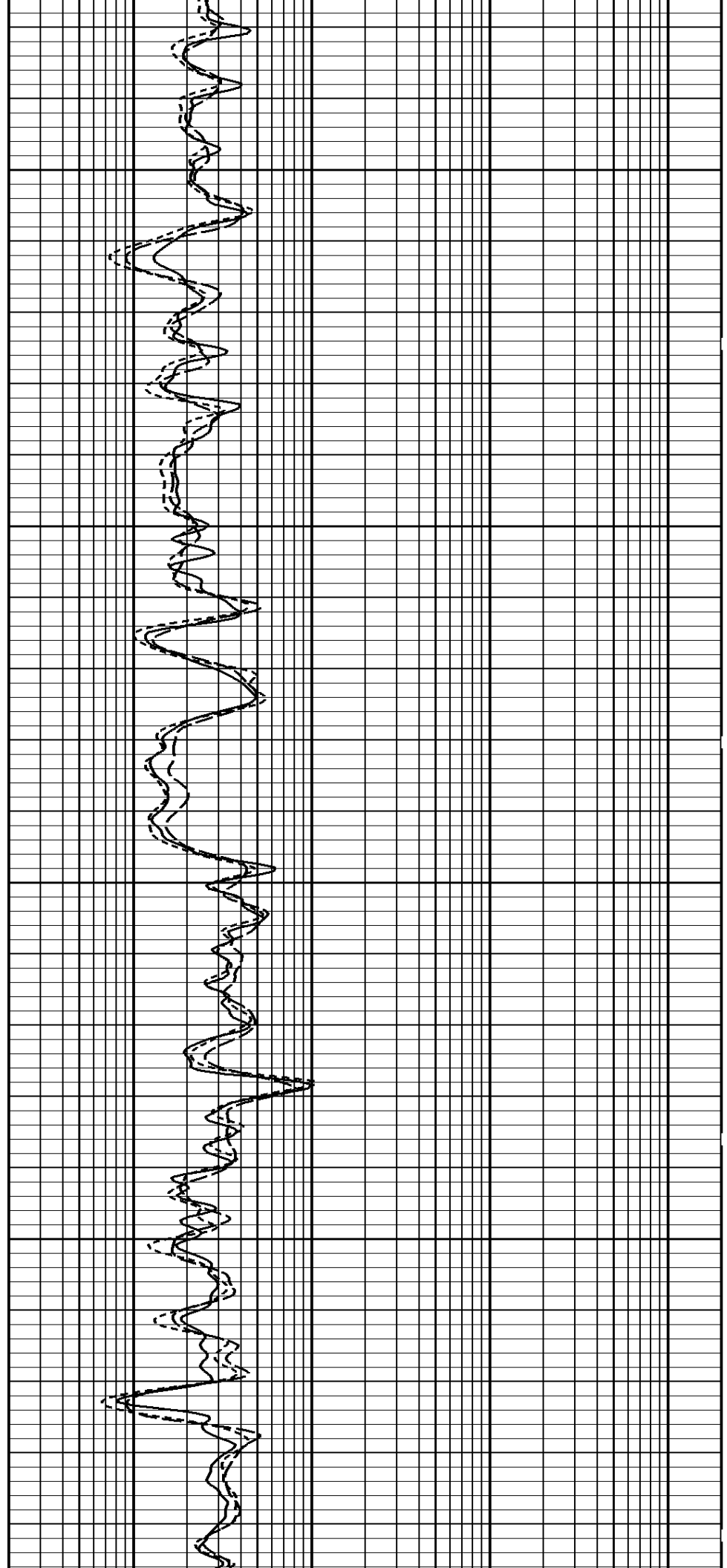
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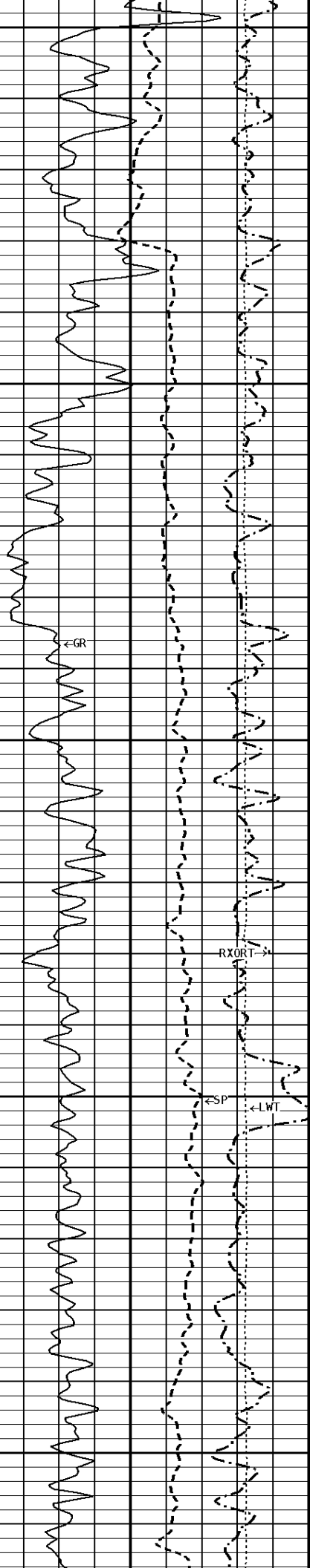




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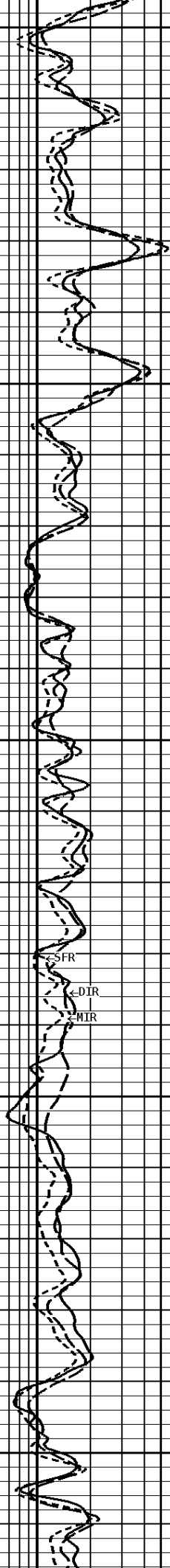
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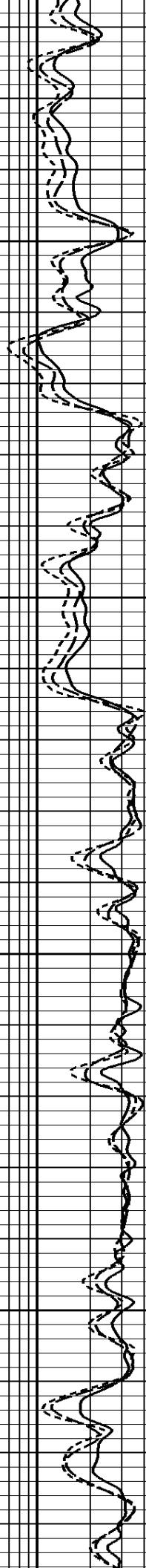
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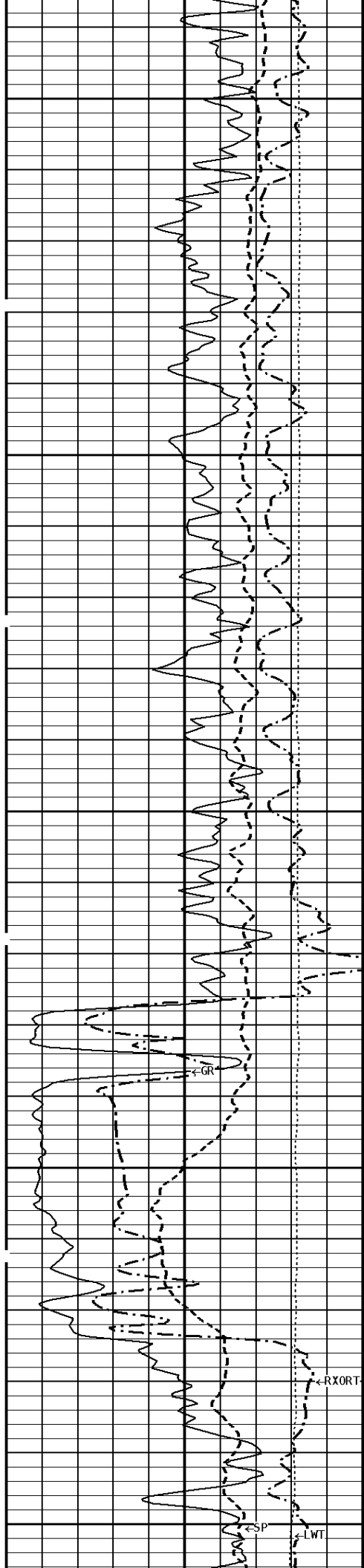




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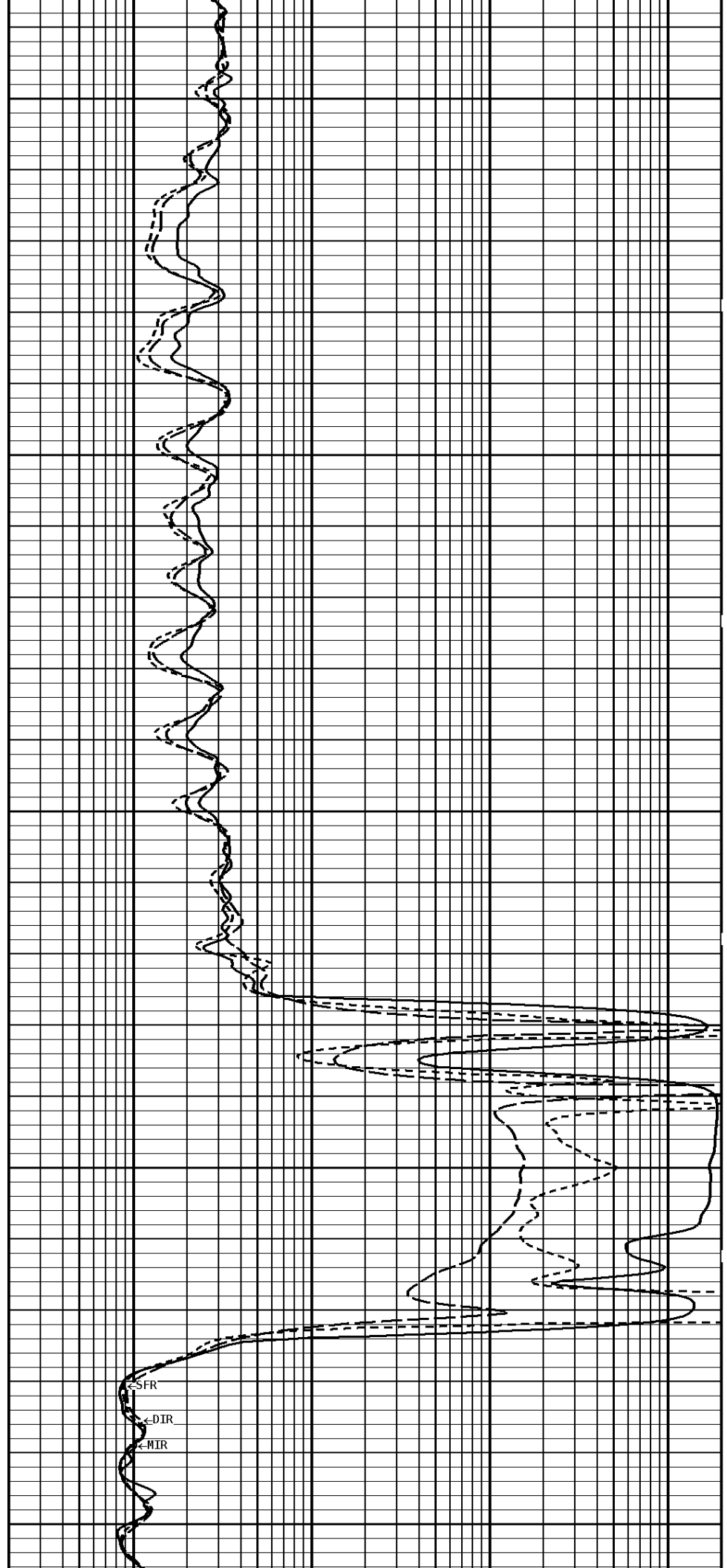
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1300

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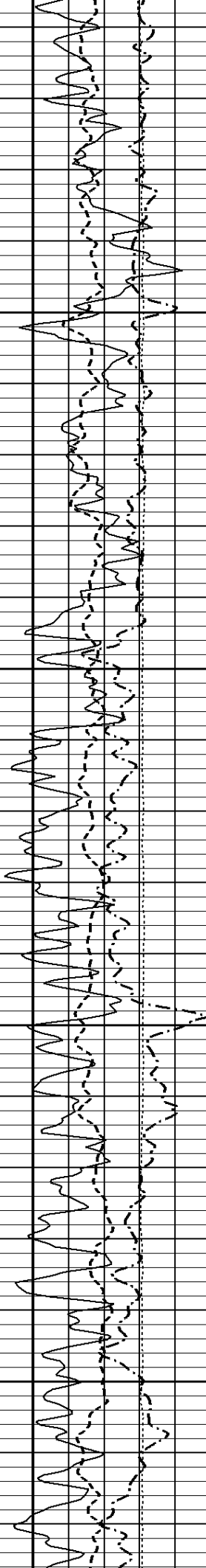
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SFR

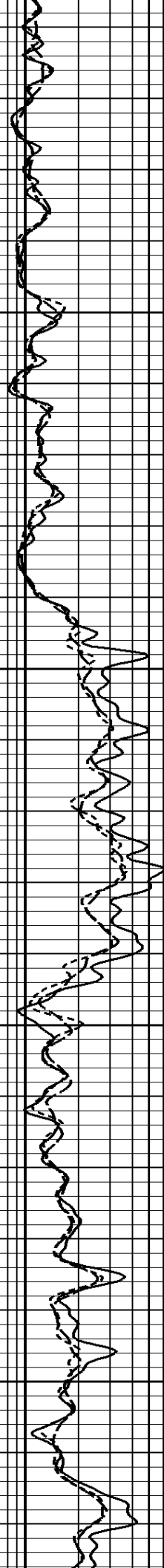
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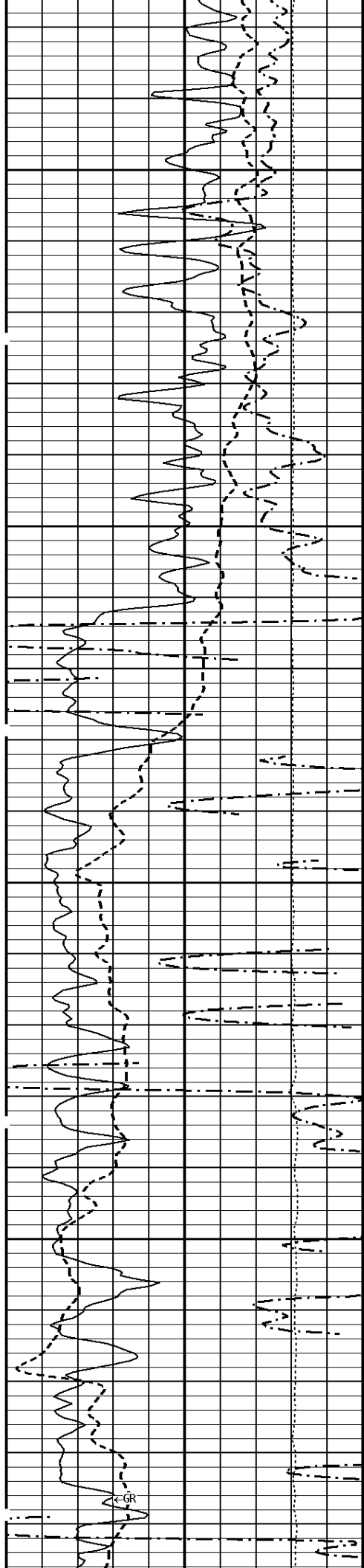
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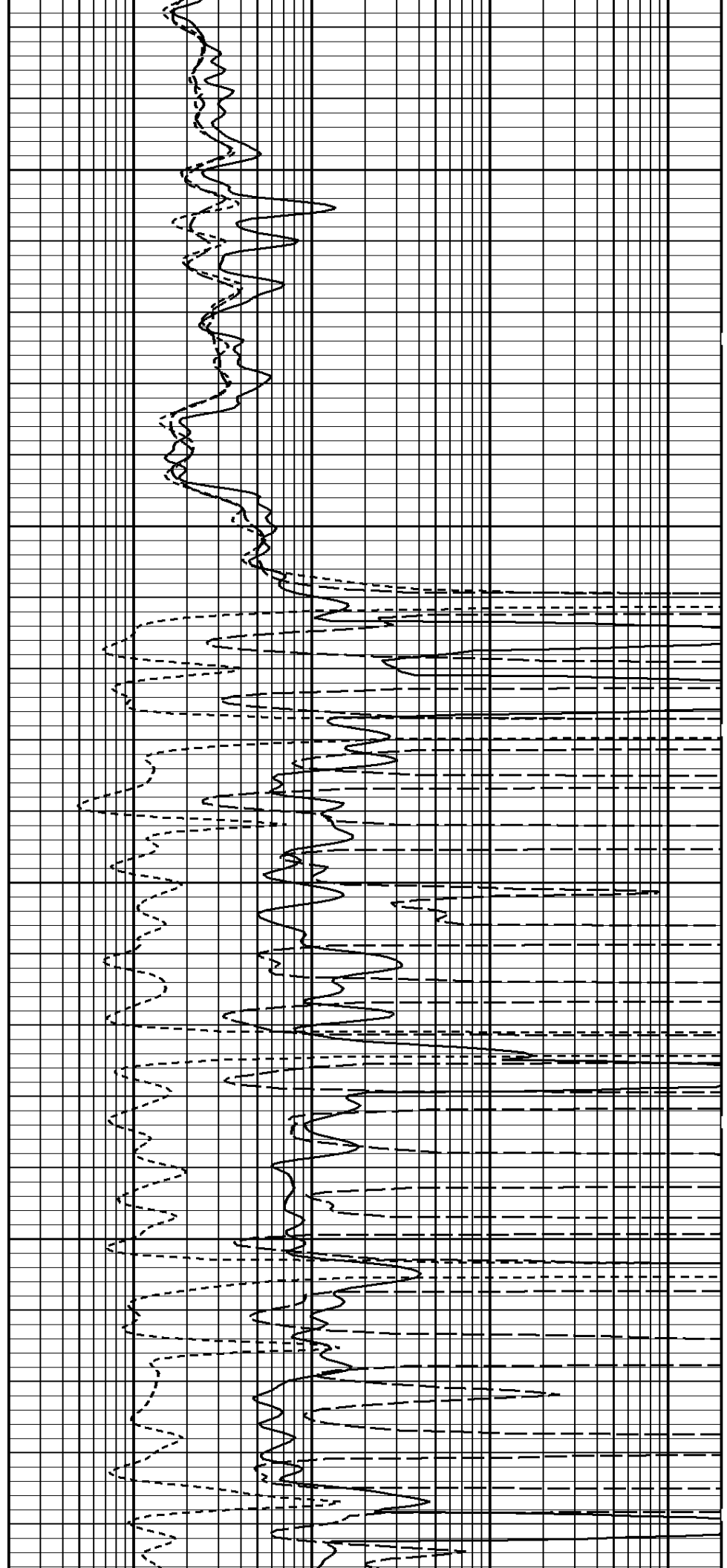
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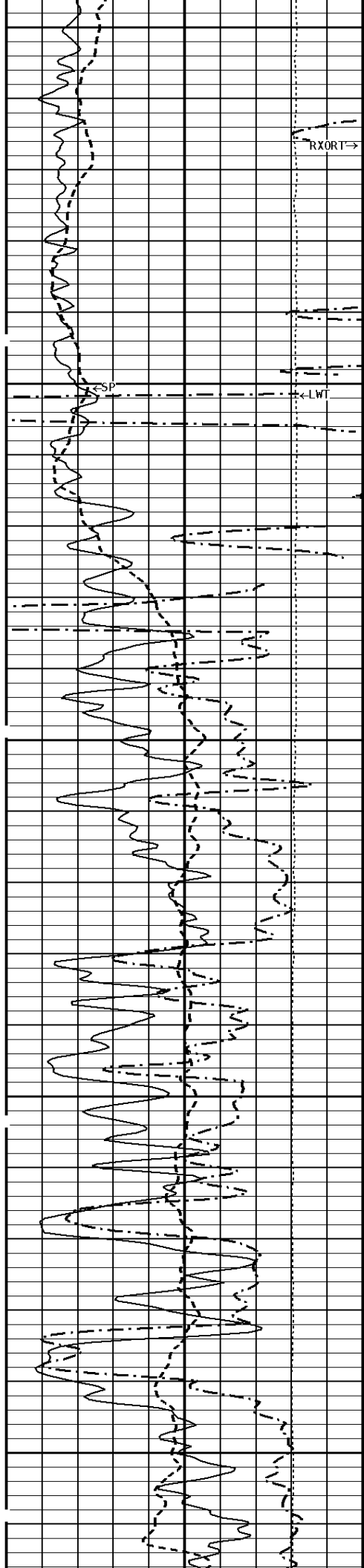




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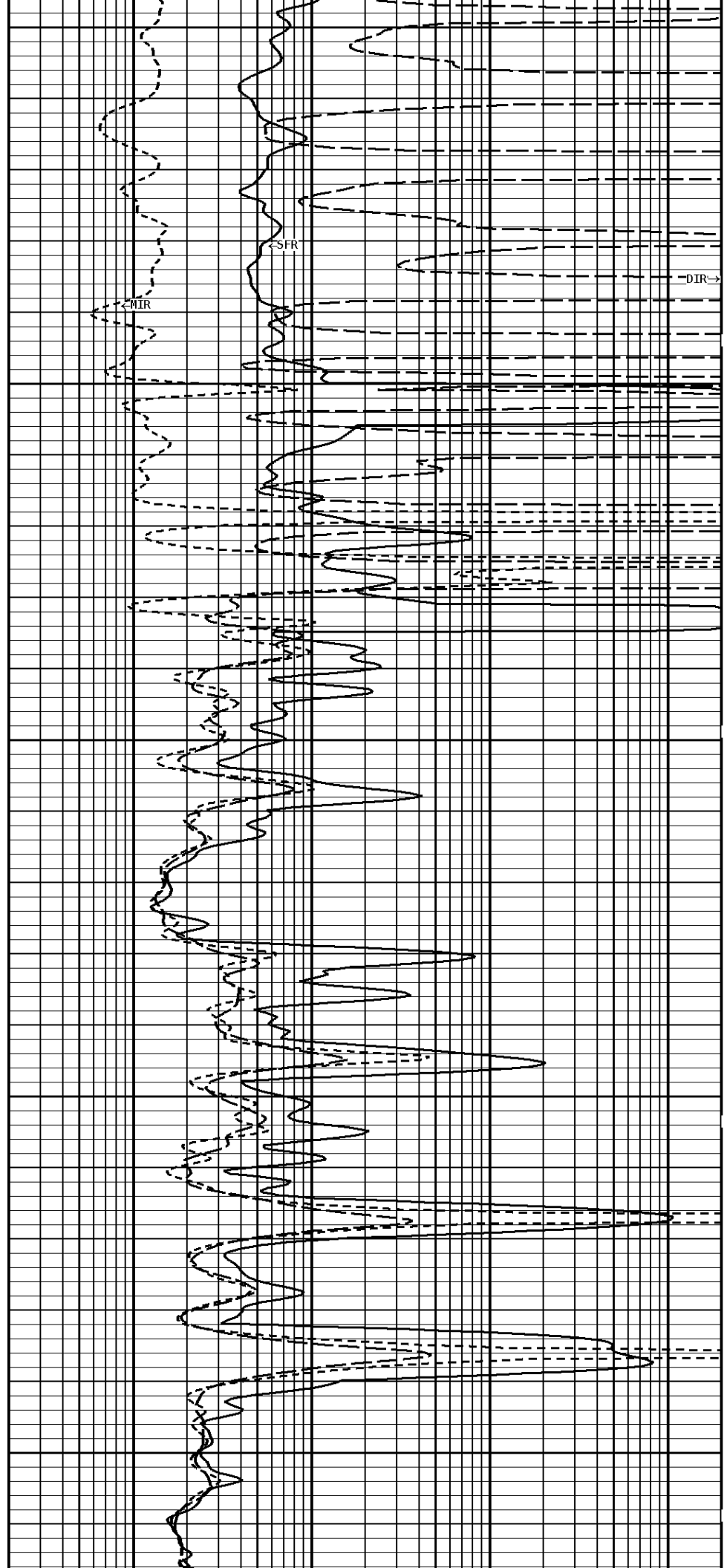
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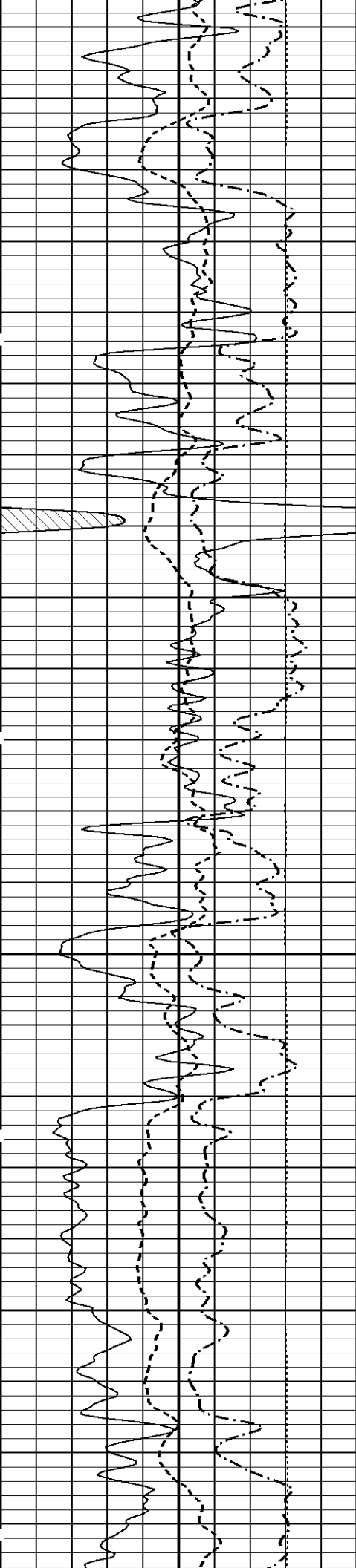




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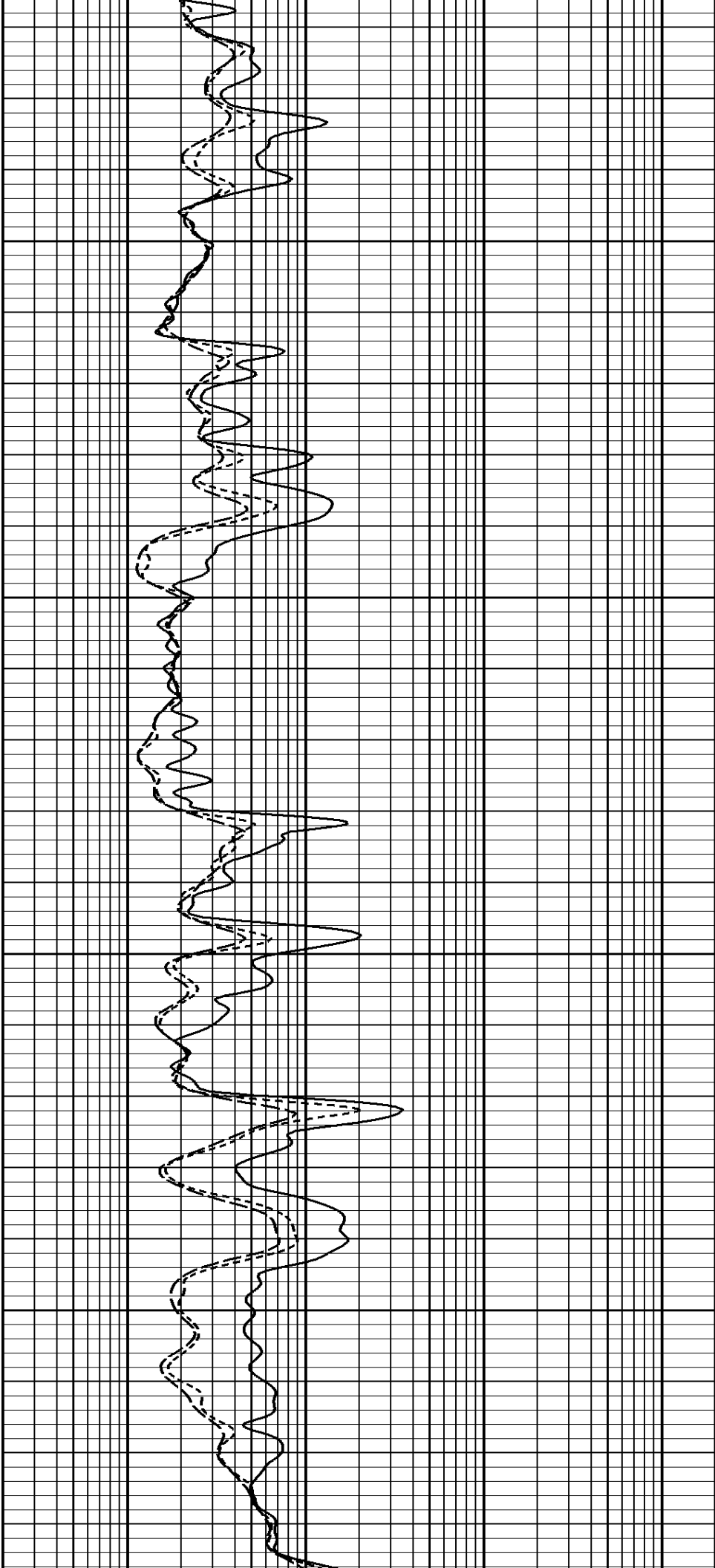
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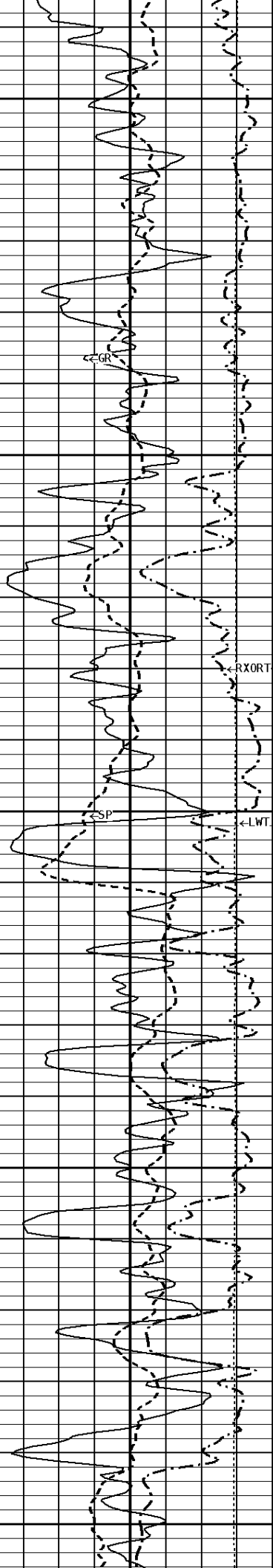


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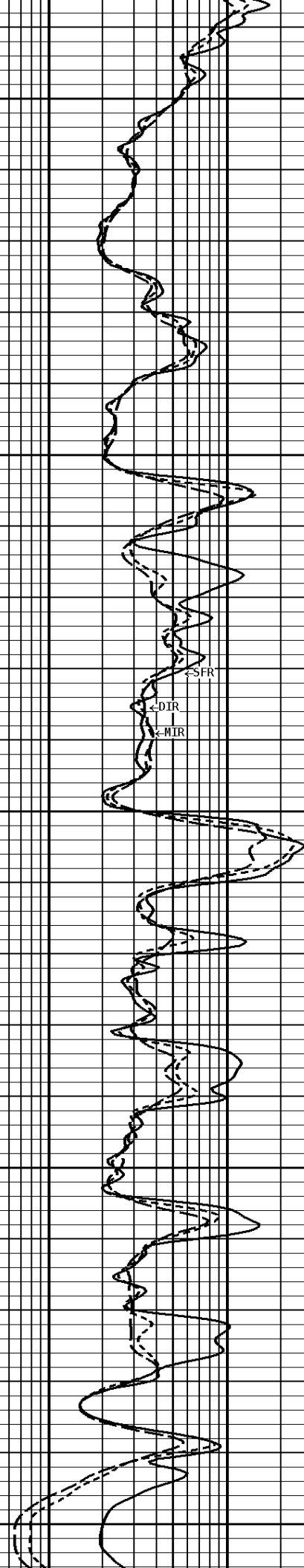
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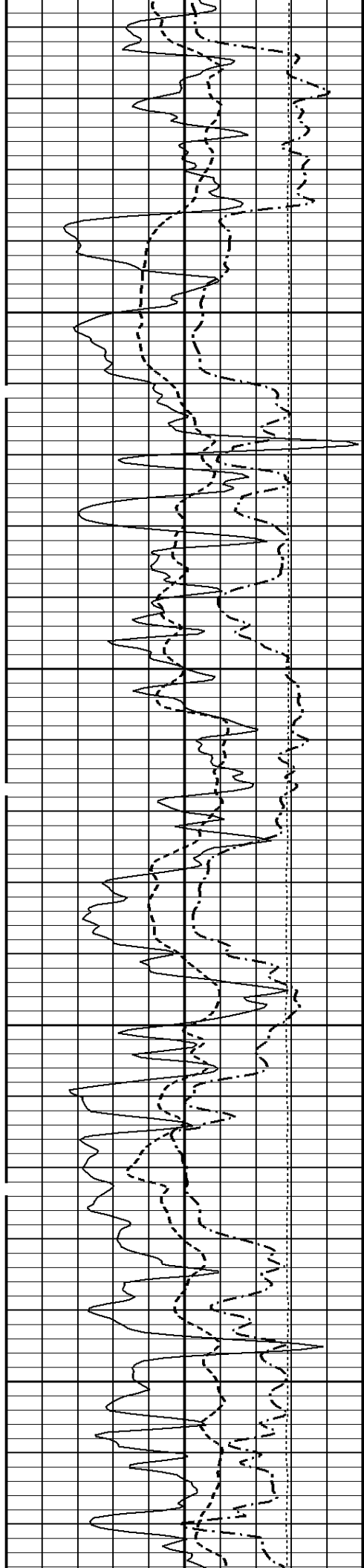
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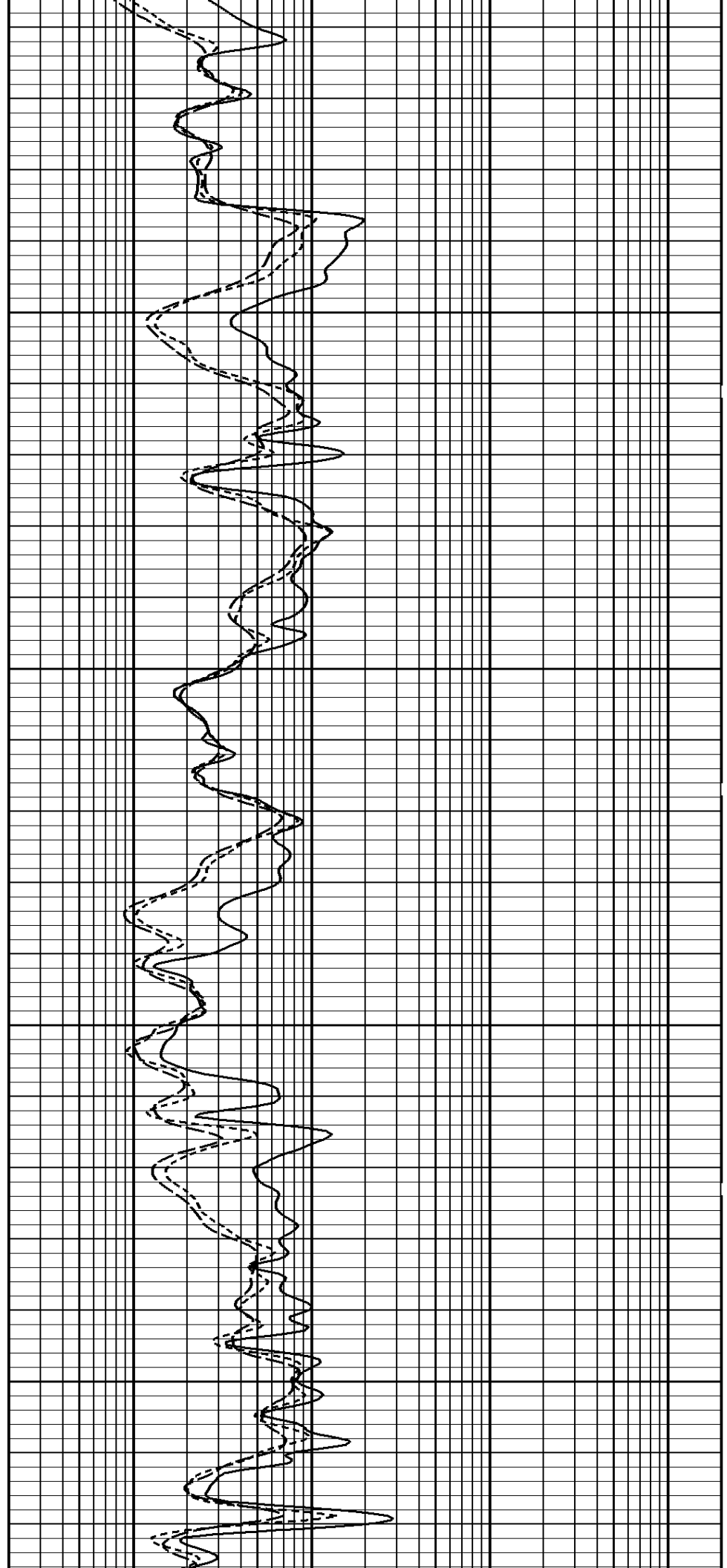


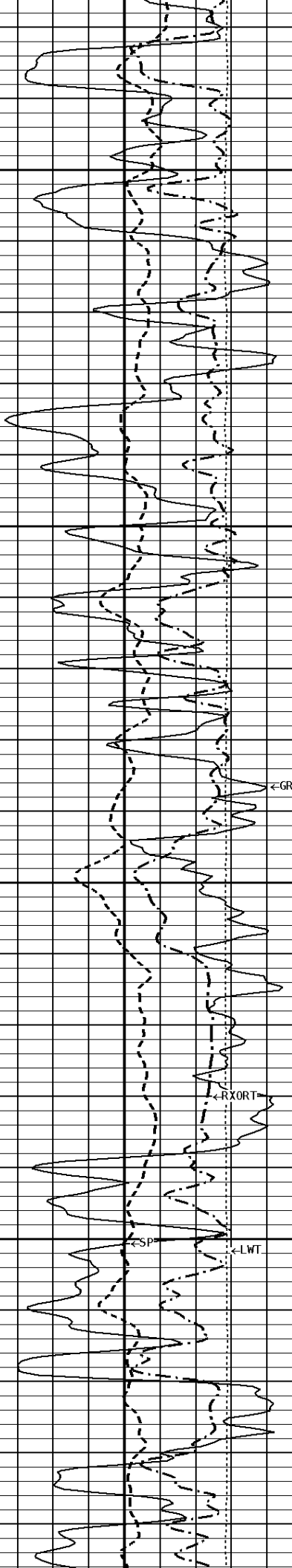
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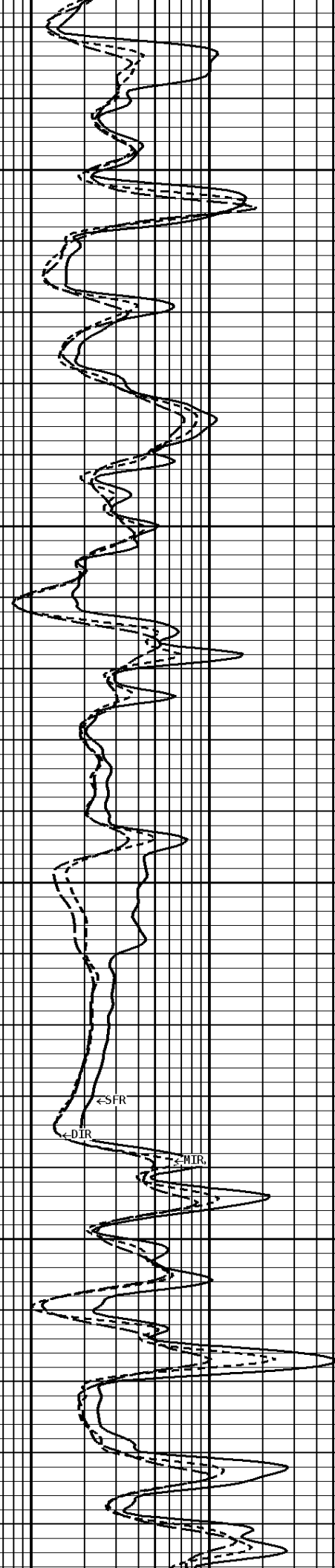
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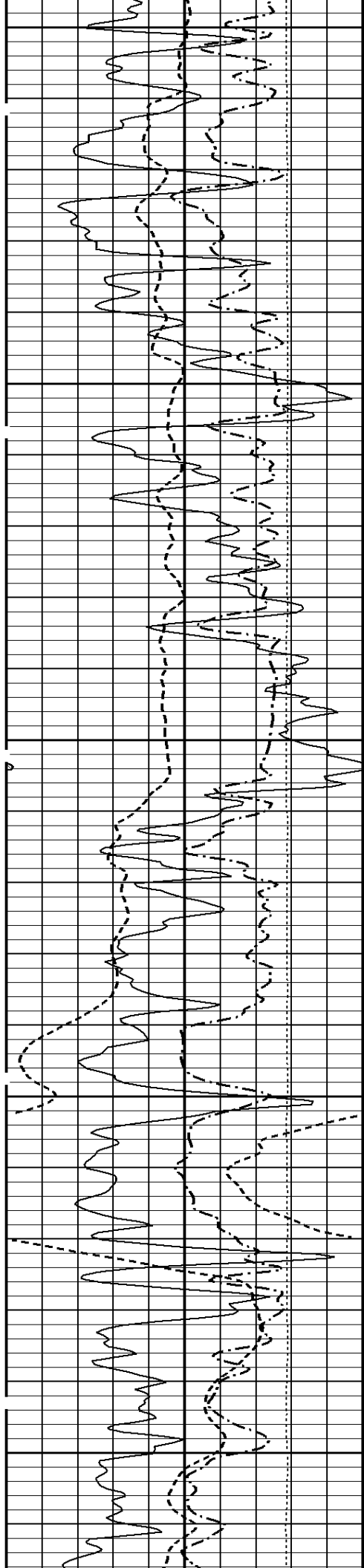




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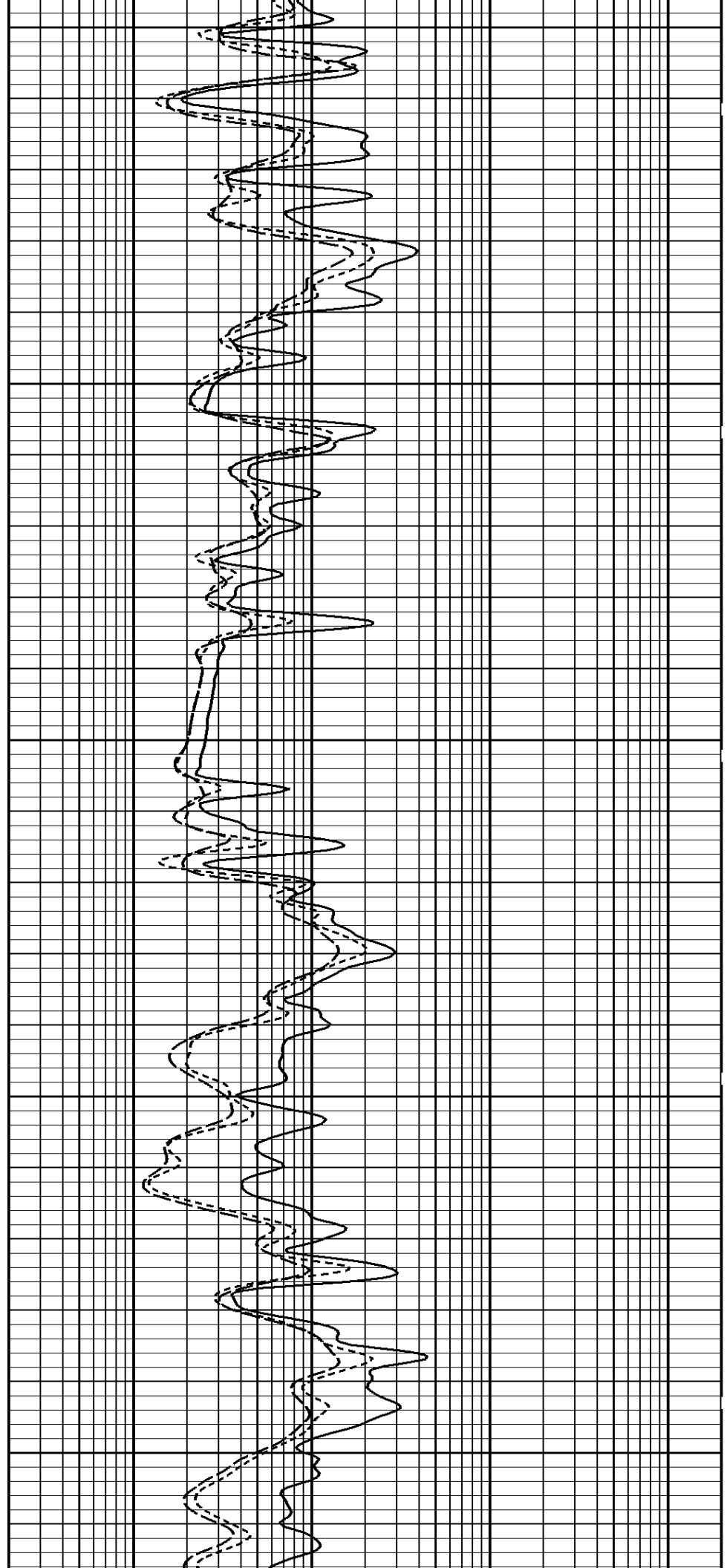
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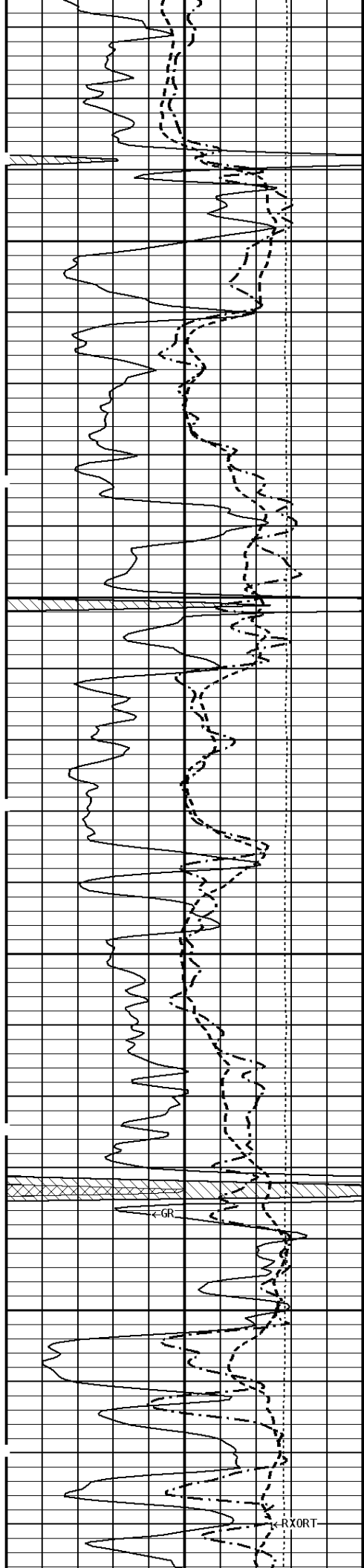




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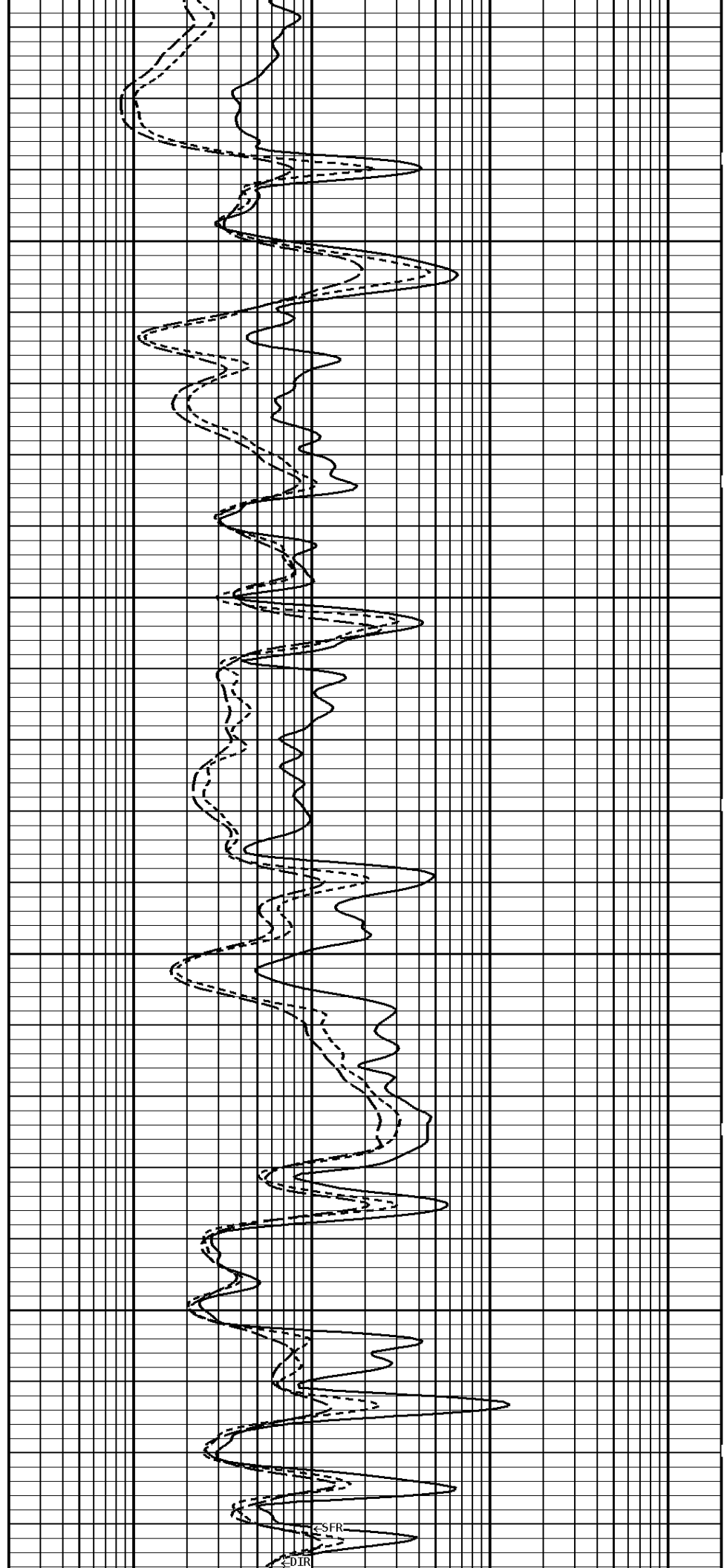
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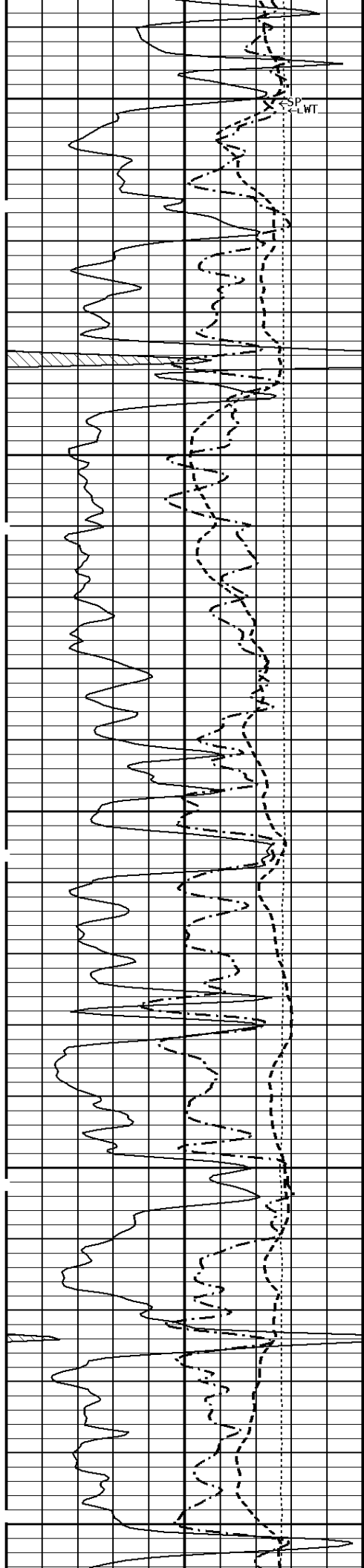




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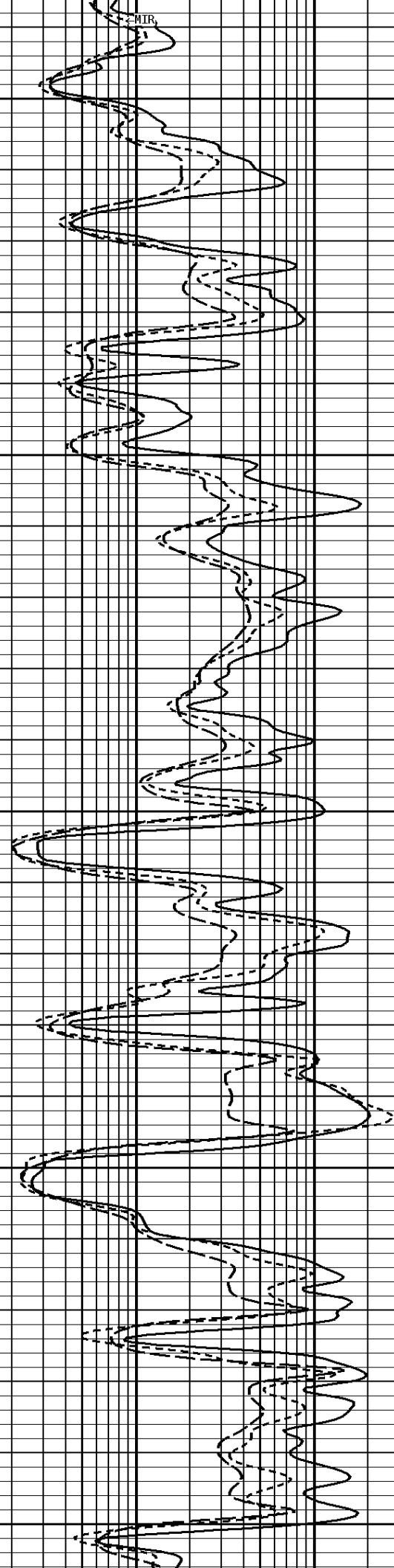


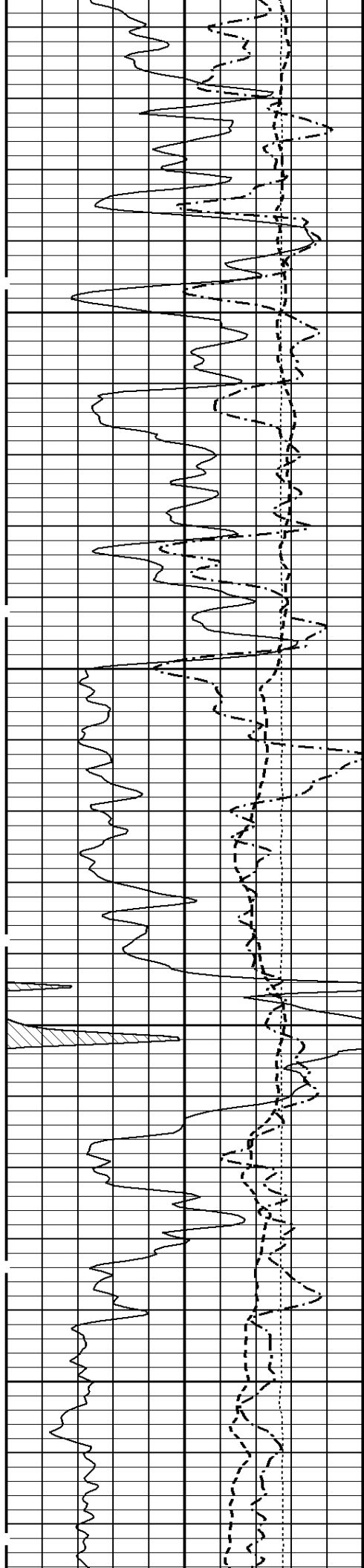


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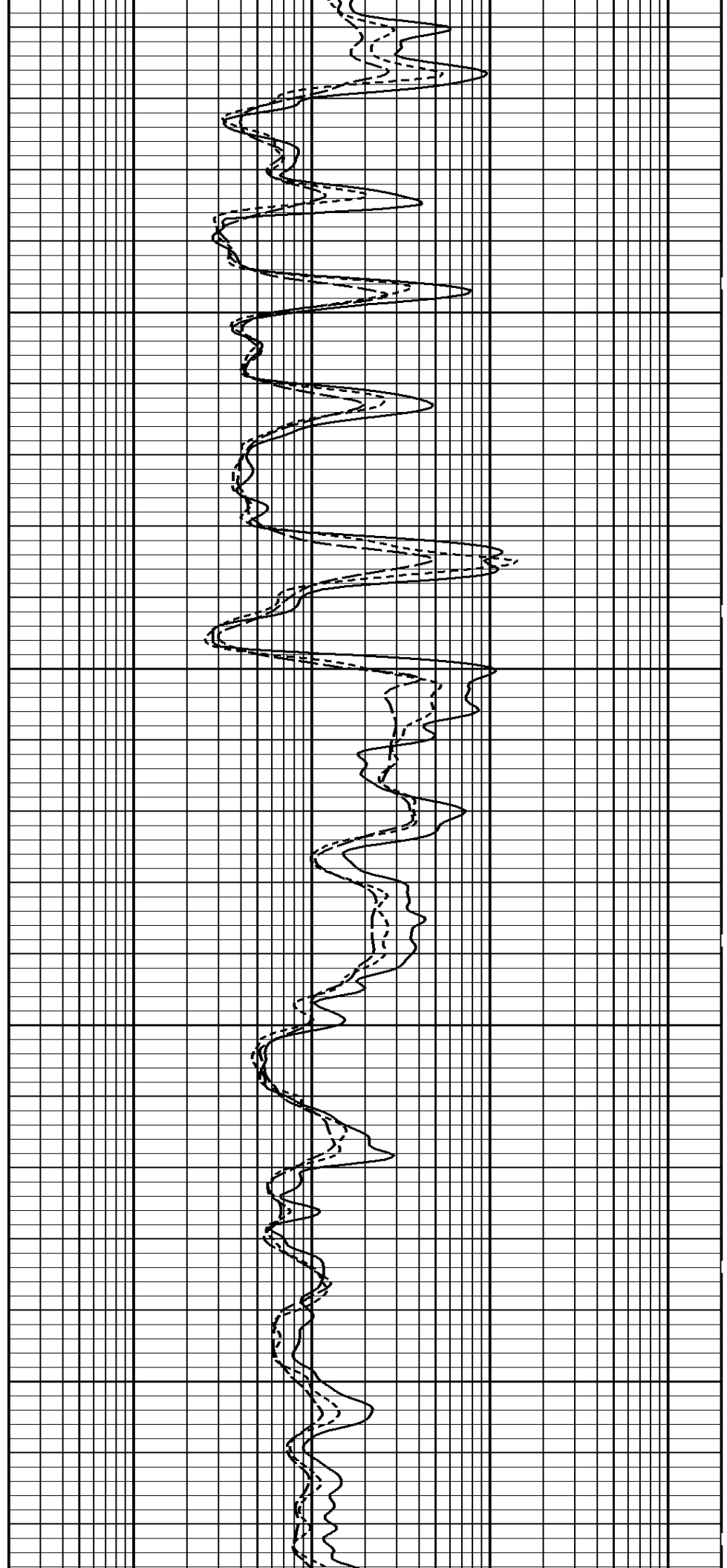
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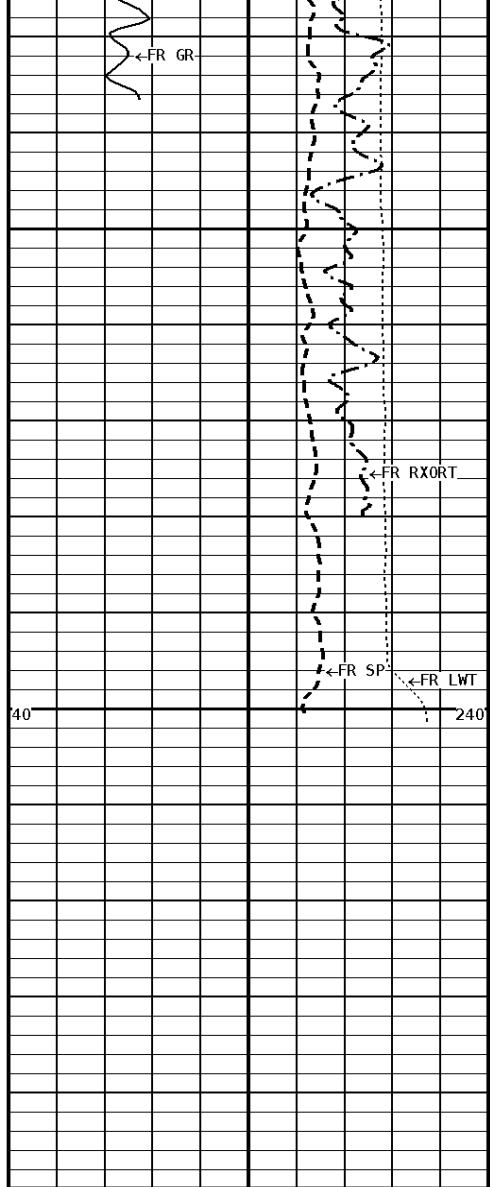




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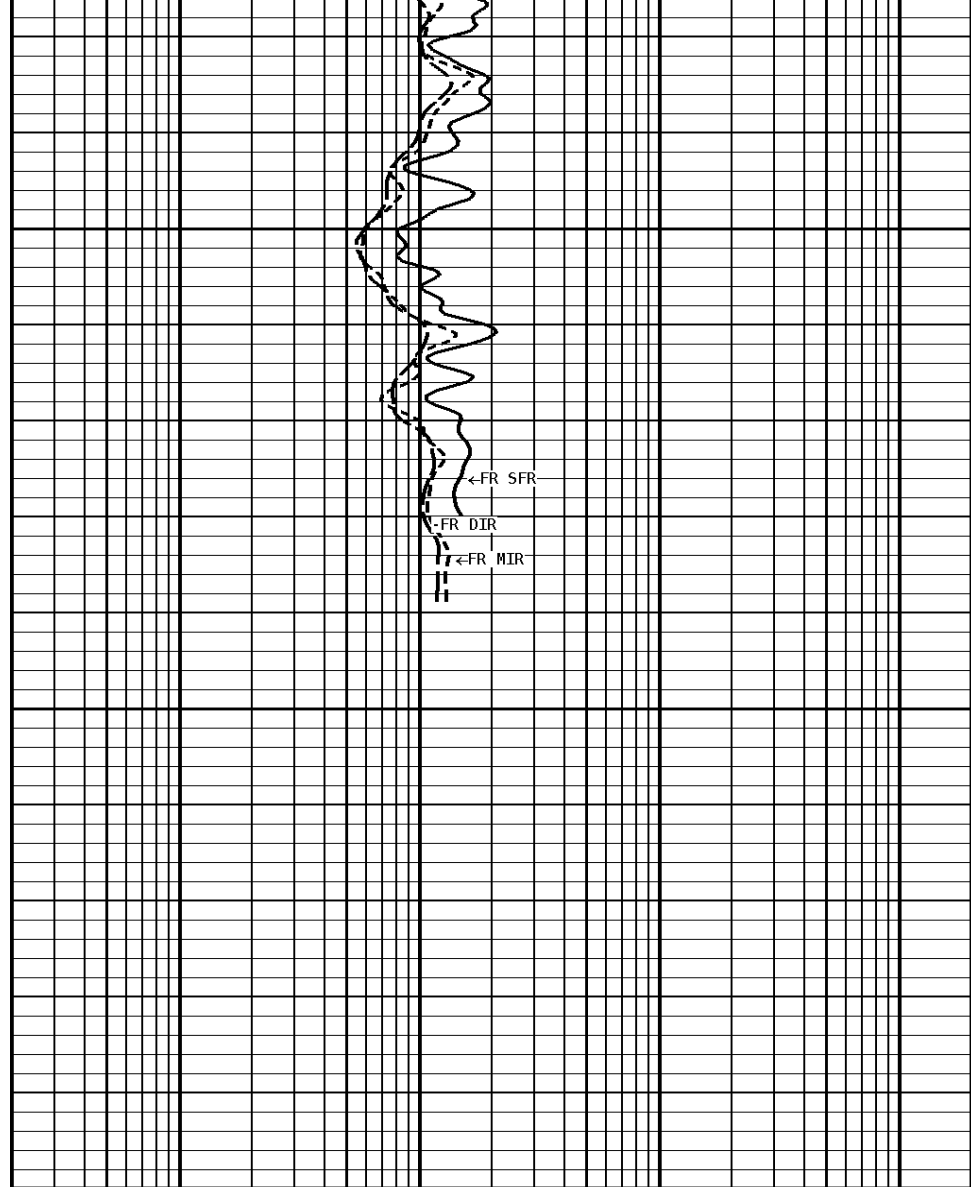
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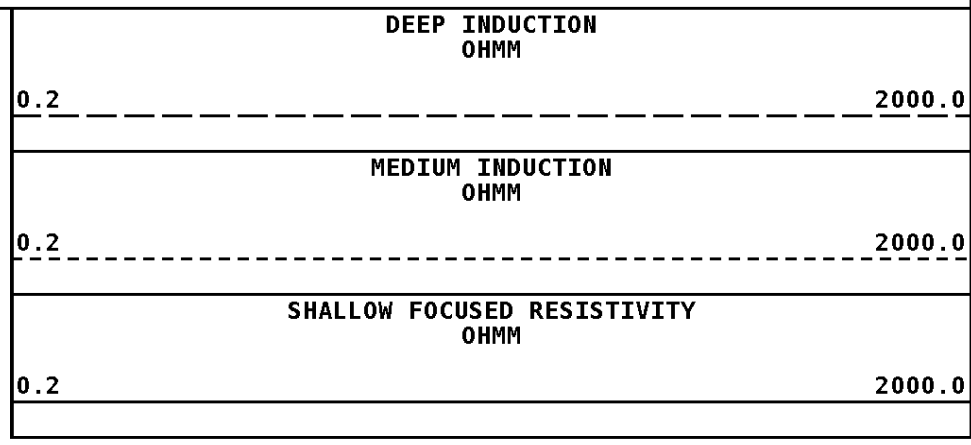
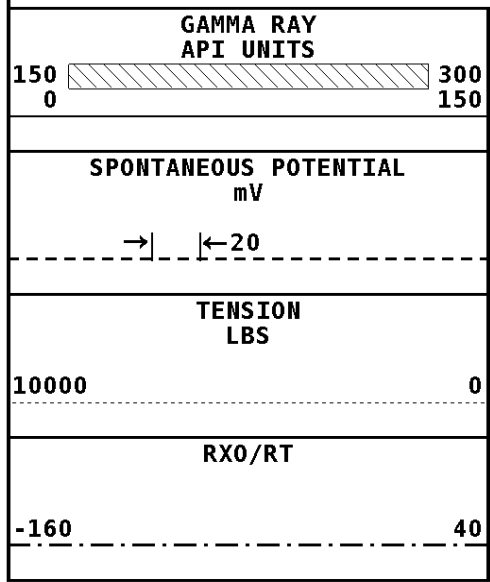


3998

File #1.1.7



1:240 MAIN SECTION



* Borehole Zone Factors *

Zone 1 99999.0 to 0.0 Feet	
Drill Bit Size _____	7.875 in
BHT Depth _____	4000.000 ft

Borehole Temperature	121.0	degF
Temperature Gradient	1.00	DFHF
Resistivity Of Mud	0.500	ohm/m
Standoff	0.0	
Resistivity Of Mud Temperature	85.00	degF

Well File: ANDERSON KING-B-1 JUN8_QSTK

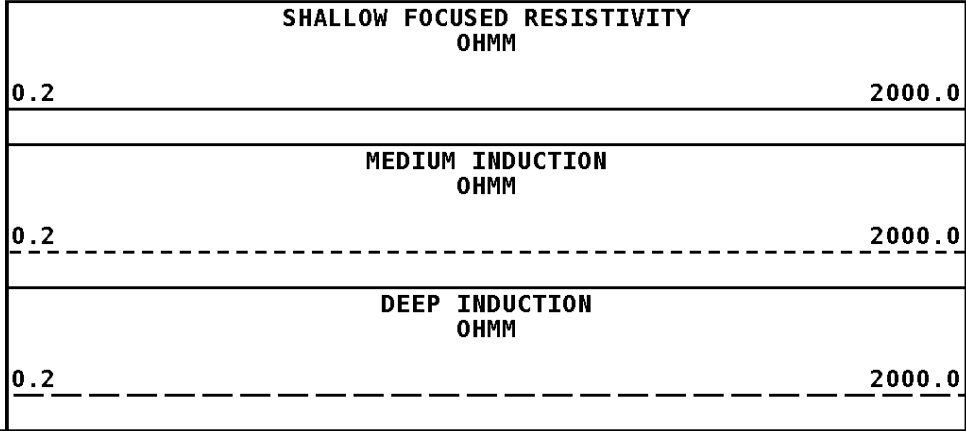
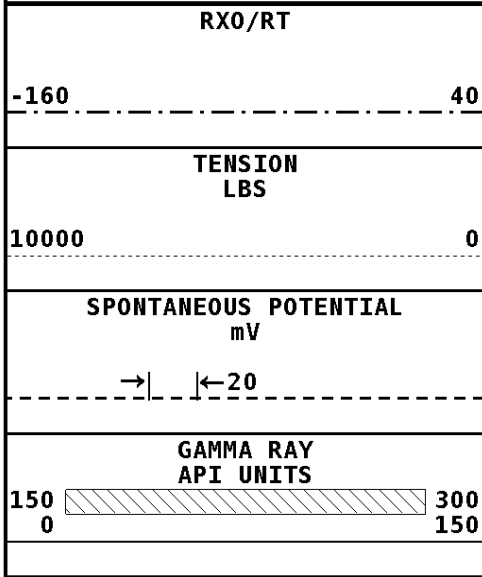
Scale: 1:240

Segment: V1.D1.S6 Reprocess of Repeat segment

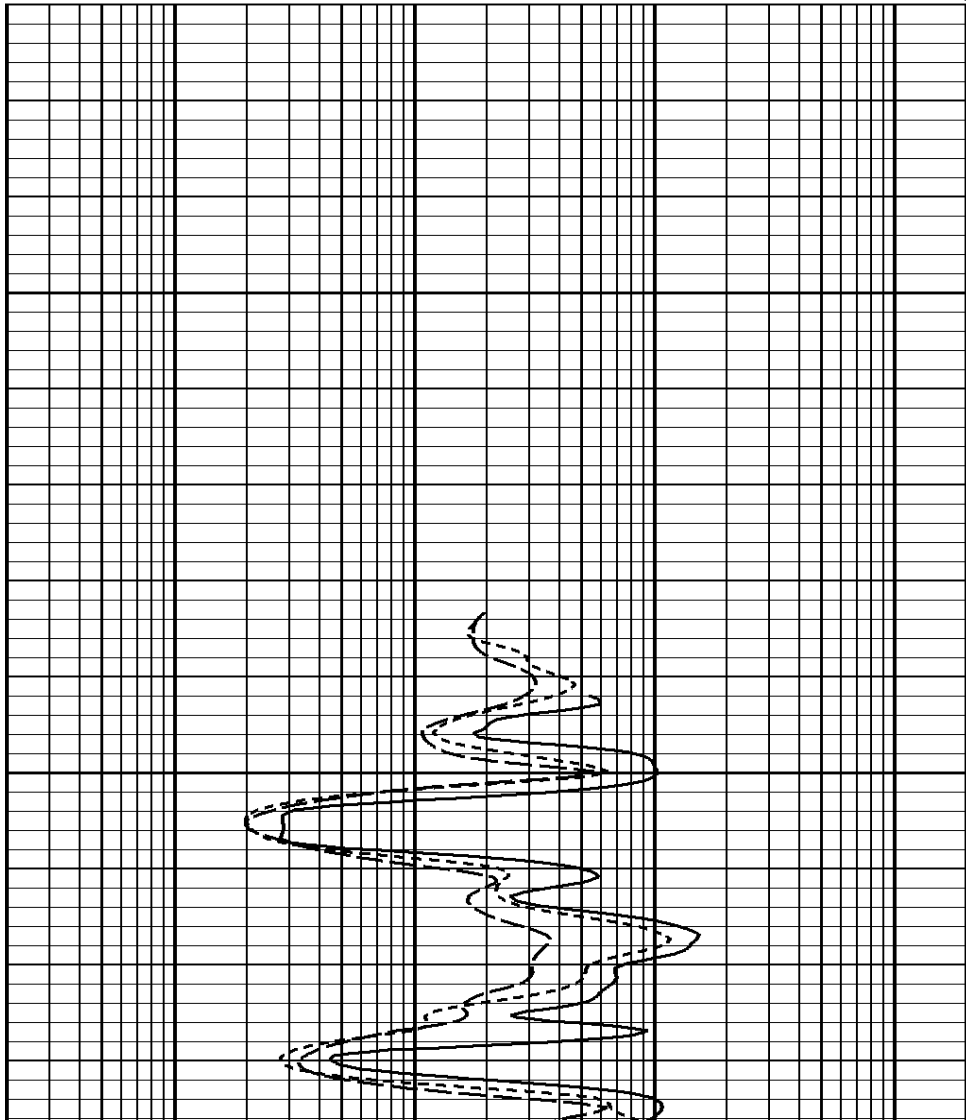
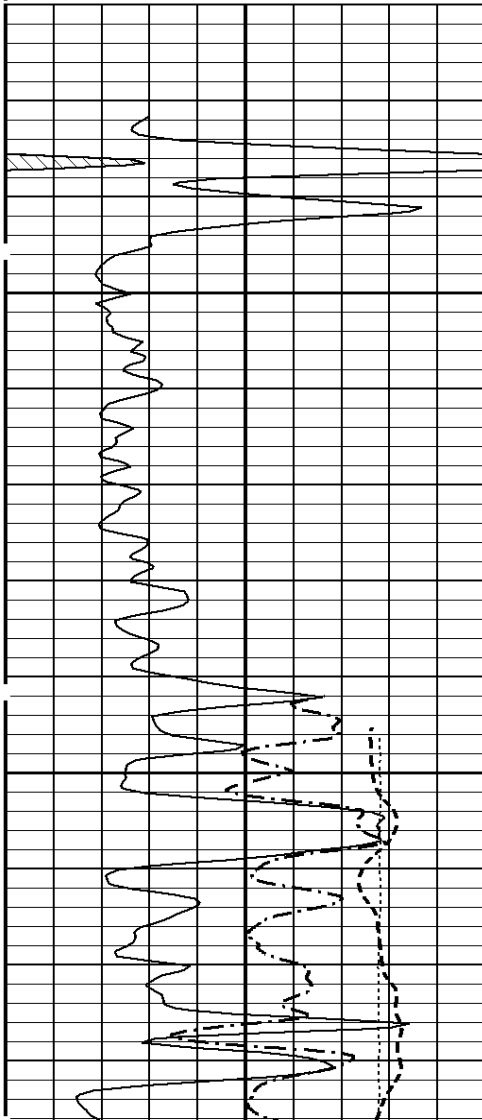
Acquired: 2012-06/08 13:42 3.2.0-10990

Reference: 0

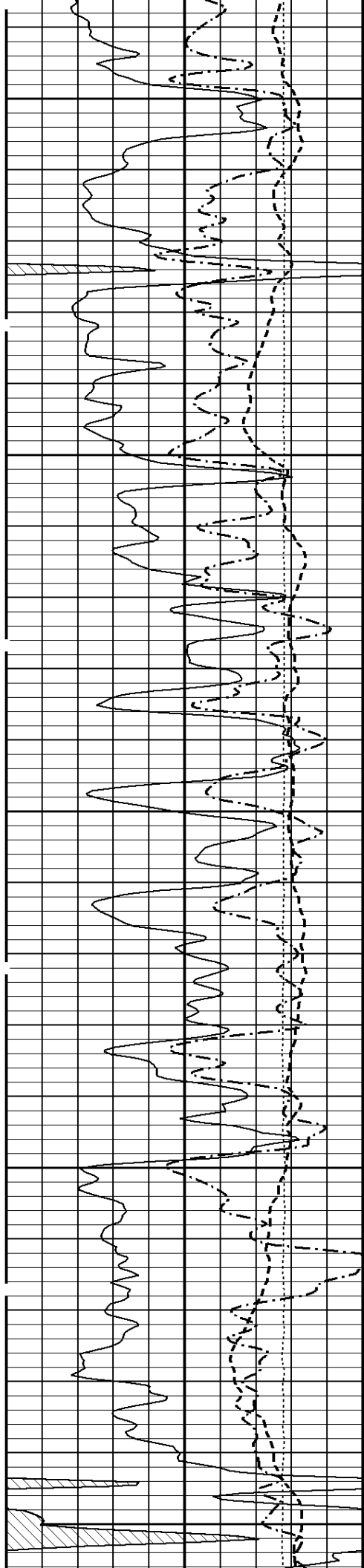
Processed: 2012-06/08 16:01 3.2.0-10990



1:240 REPEAT SECTION

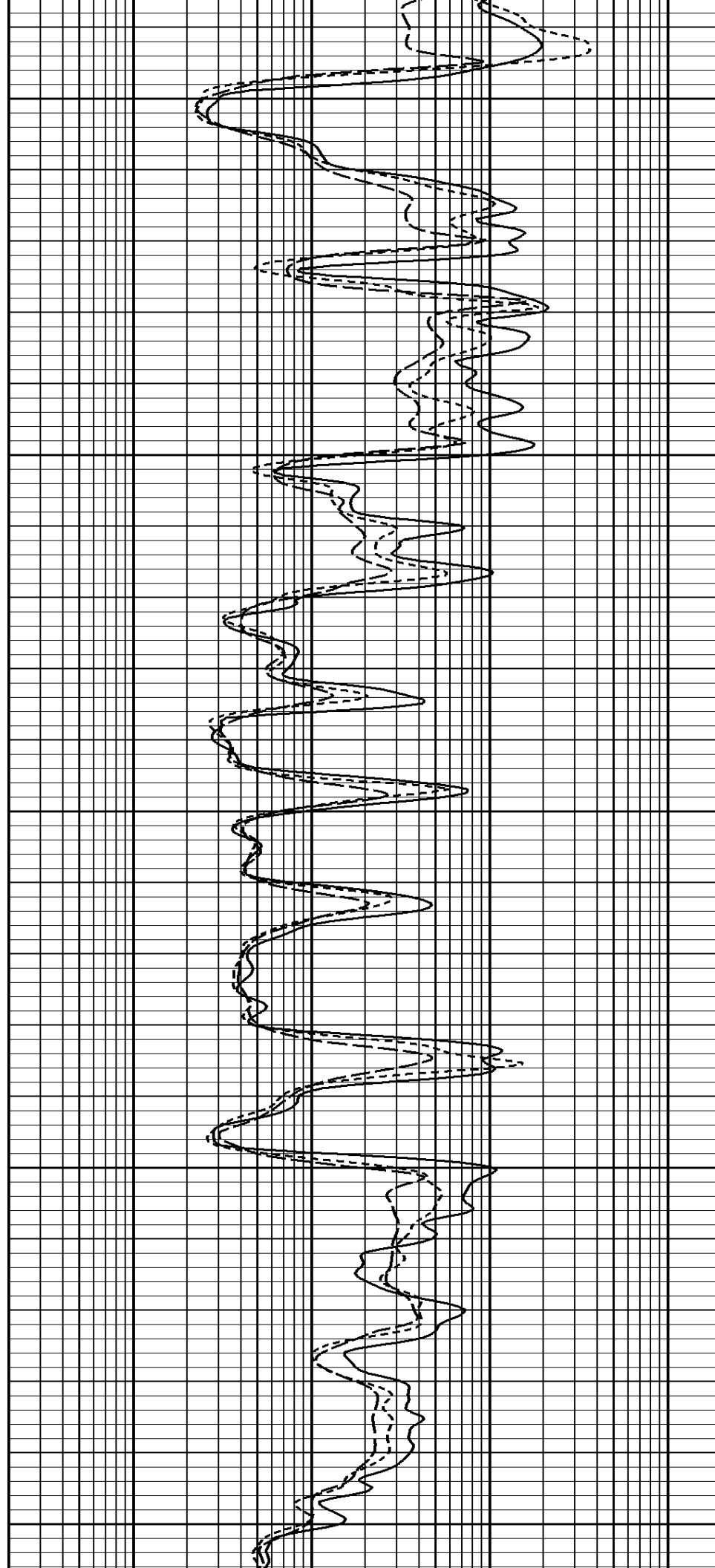


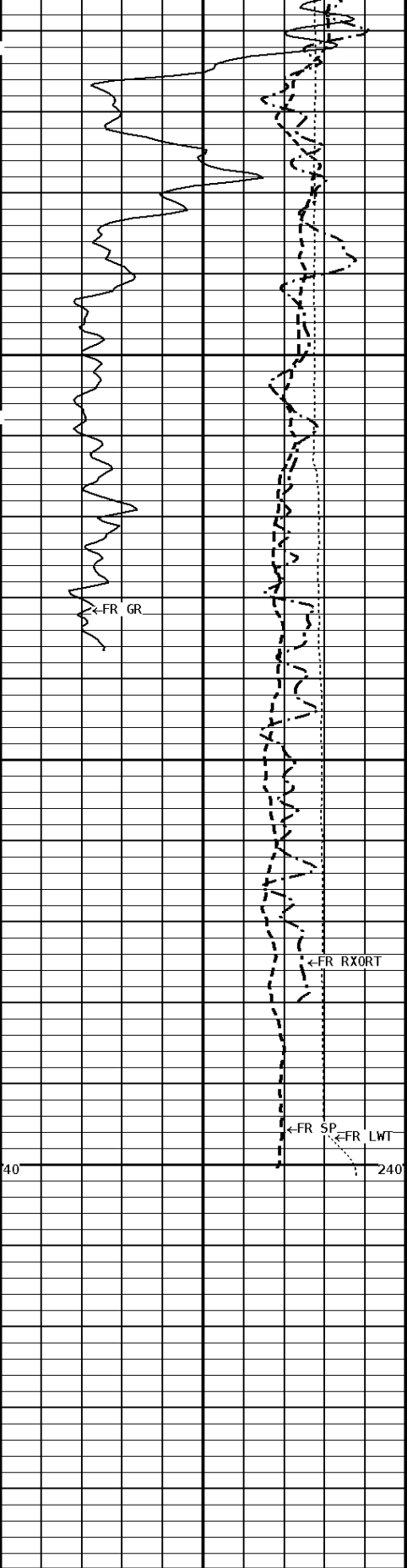
3600



3700

3800

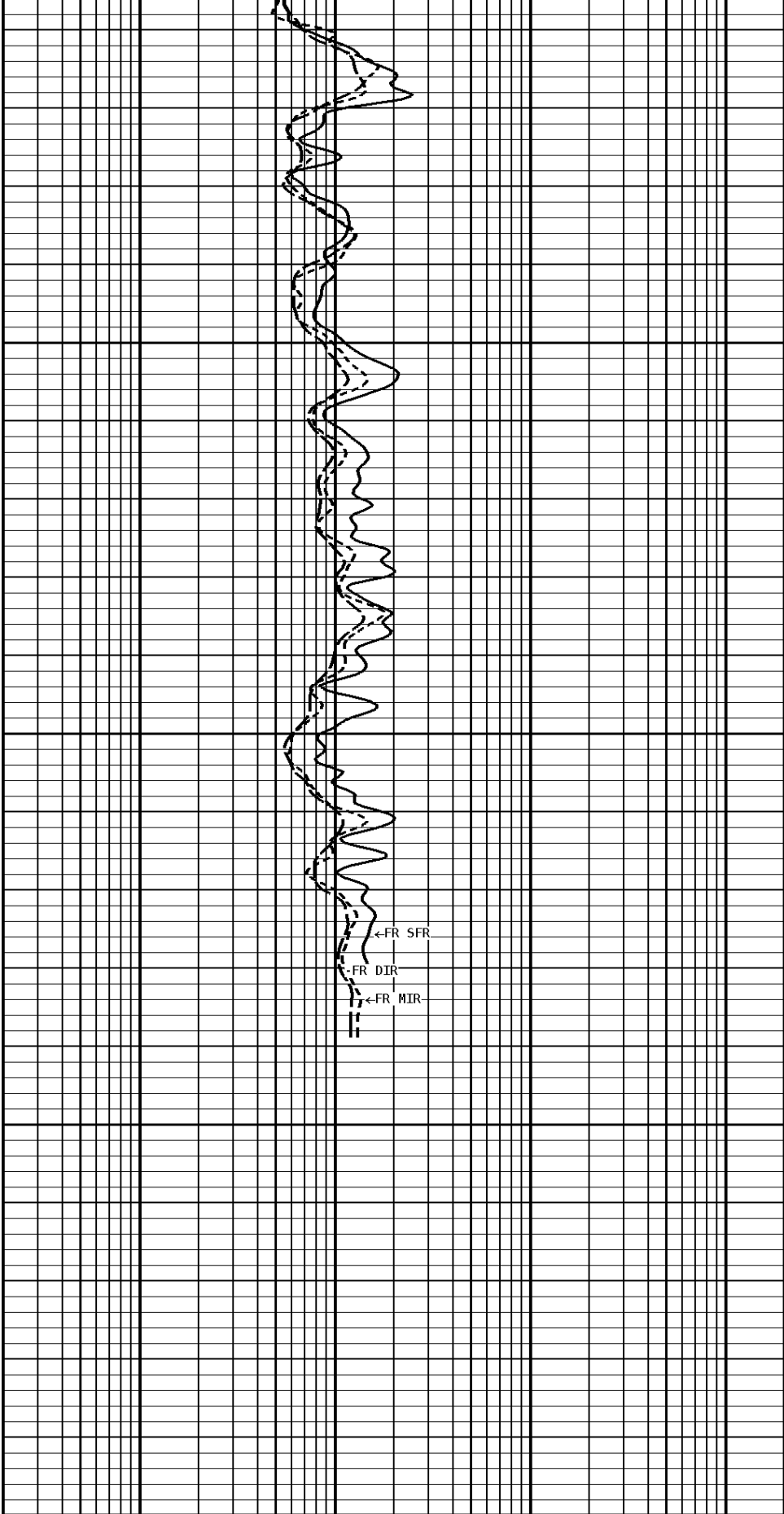




3900

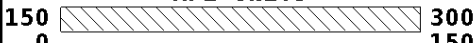
3998
4000

File #1.1.6

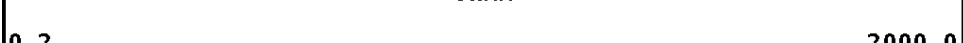


1:240 REPEAT SECTION

GAMMA RAY
API UNITS



DEEP INDUCTION
OHMM



SPONTANEOUS POTENTIAL mV	
→	←20
TENSION LBS	
10000	0
RXO/RT	
-160	40

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
BHT Depth	_____	4000.000 ft
Borehole Temperature	_____	121.0 degF
Temperature Gradient	_____	1.00 DFHF
Resistivity Of Mud	_____	0.500 ohm/m
Standoff	_____	0.0
Resistivity Of Mud Temperature	_____	85.00 degF

*** Calibration Summary ***

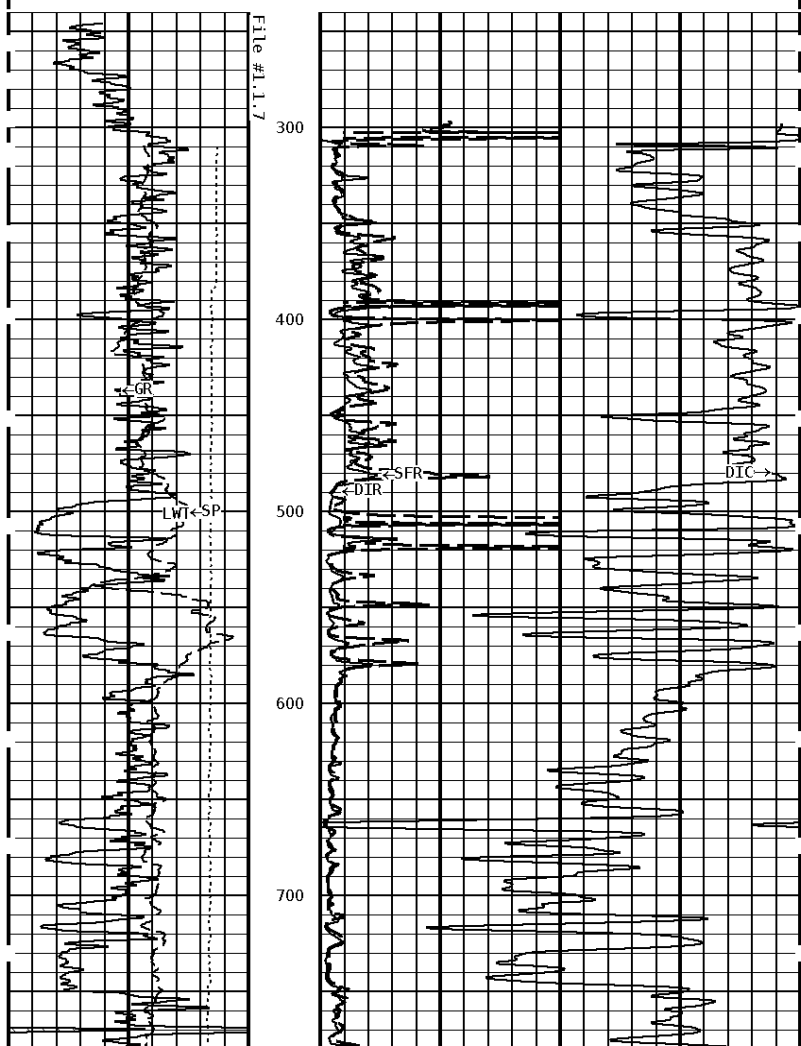
Shop Calibration GRT-B						
Performed : 25-MAY-2012			Time : 12:30			
Sensor Suite : GR-GR5			ID : GRT-BA-121			
	Measured	Units	Calibrated	Units		
GR	Background	Jig	Jig	GRAPI		
	51	355	175			
Shop Calibration PIT-CA						
Performed : 30-Jan-2012			Time : 11:54			
Sensor Suite : P-IND-T			ID : PIT-AC-13			
Medium						
	Measured		Calibrated		Units	
	R	X	R	X		
Air	136365	125049	0.0	0.0	MMHOS	
Zero	131065	131066	-36.4	57.9	MMHOS	
Reference	251107	249423	4963.6	5057.9	MMHOS	
Loop	157393	168994	2732.3	980.6	MMHOS	
Sonde Error			-11.9	-380.7	MMHOS	
Cond			4963.6	5057.9	MMHOS	
Deep						
	Measured		Calibrated		Units	
	R	X	R	X		
Air	132977	127485	0.0	0.0	MMHOS	
Zero	131089	131070	24.9	12.0	MMHOS	
Reference	237110	236051	2024.9	2012.0	MMHOS	
Loop	154740	173084	1279.3	458.2	MMHOS	
Sonde Error			4.2	-116.9	MMHOS	
Cond			2024.9	2012.0	MMHOS	
Temperature						
	Measured		Calibrated		Units	
	Low	High	Low	High		
	16980.0	56920.0	70.0	350.0	DEGF	
Performed : 30-Jan-2012			Time : 12:01			
Sensor Suite : SFL			ID : PIT-AC-13			
Internal						
	Measured		Calibrated		Units	
	Zero	Reference	Zero	Reference		
Im	32767.9	49251.2	0.0	7028.0	uA	
Ib	32770.9	49303.8	0.0	1750.0	mA	
MOM1	32786.1	60265.8	0.0	175.0	mV	

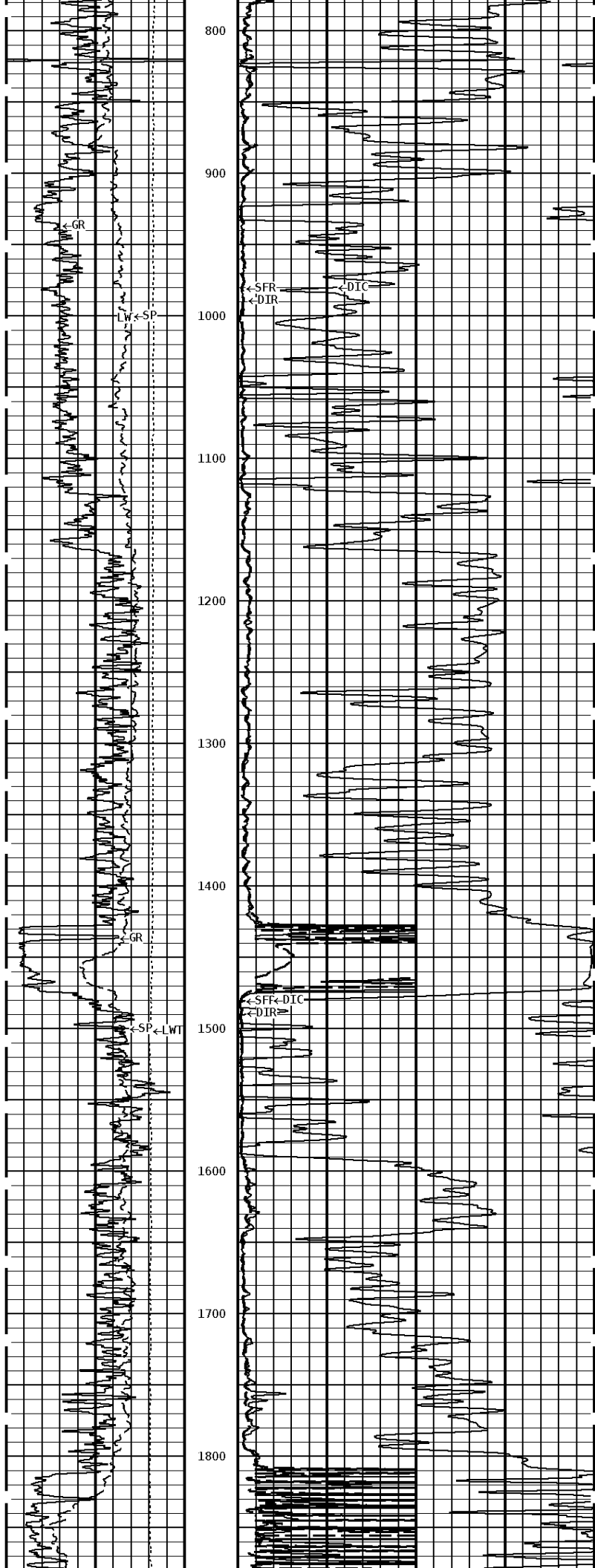
Equivalent SFL		43.97	OHMM
Performed : 30-Jan-2012		Time : 12:03	
Sensor Suite : P-SP		ID : PIT-AC-13	
Internal			
Measured		Calibrated	
Zero	Reference	Zero	Reference
32769.2	58922.1	0.0	1000.0
Units		mV	
Performed : 30-JAN-2012		Time : 13:25	
Sensor Suite : P-RMUD		ID : PIT-AC-13	
Internal			
Measured		Calibrated	
Zero	Reference	Zero	Reference
Rmi	0.0	34825.0	0.0
Rmv	0.0	34825.0	0.0
Equivalent Rm		0.0871	OHMM

Well File: ANDERSON KING-B-1 JUN8 QSTK **Scale:** 1:1200
Segment: V1.D1.S7 Reprocess of Main segment **Acquired:** 2012-06/08 14:02 3.2.0-10990
Reference: 0 **Processed:** 2012-06/08 16:01 3.2.0-10990

TENSION LBS	DEEP INDUCTION OHMM
10000 ----- 0	0.0 ----- 500.0 0.0 ----- 50.0
SPONTANEOUS POTENTIAL mV	SHALLOW FOCUSED OHMM
→ ← 20	0.0 ----- 500.0 0.0 ----- 50.0
GAMMA RAY API UNITS	DEEP CONDUCTIVITY MHMO
150 300 0 ----- 150	2000 ----- 1000 1000 ----- 0

1:1200 MAIN SECTION





800
900
1000
1100
1200
1300
1400
1500
1600
1700
1800

SFR
DIR

DIC

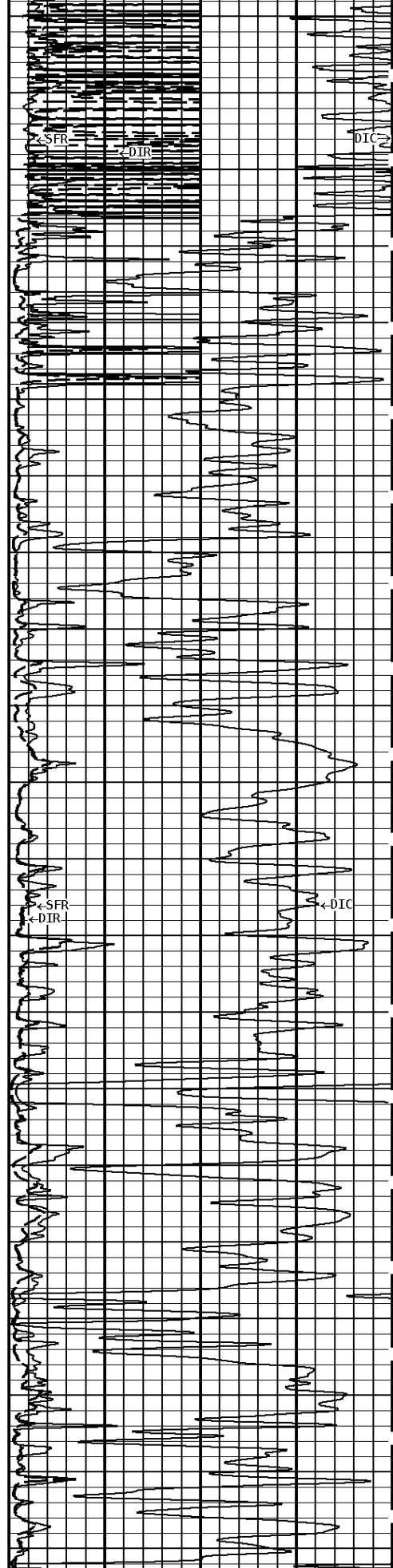
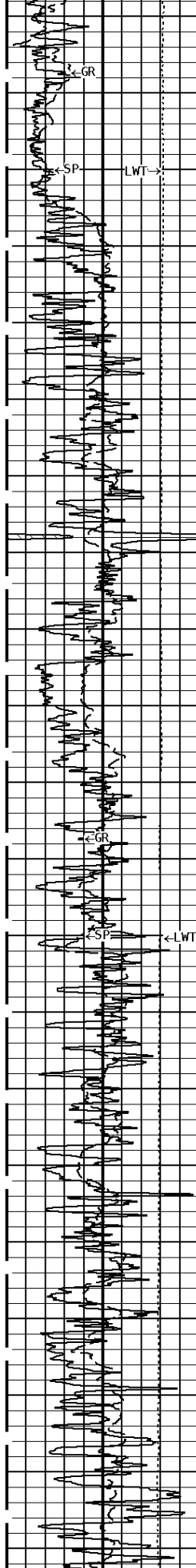
SP

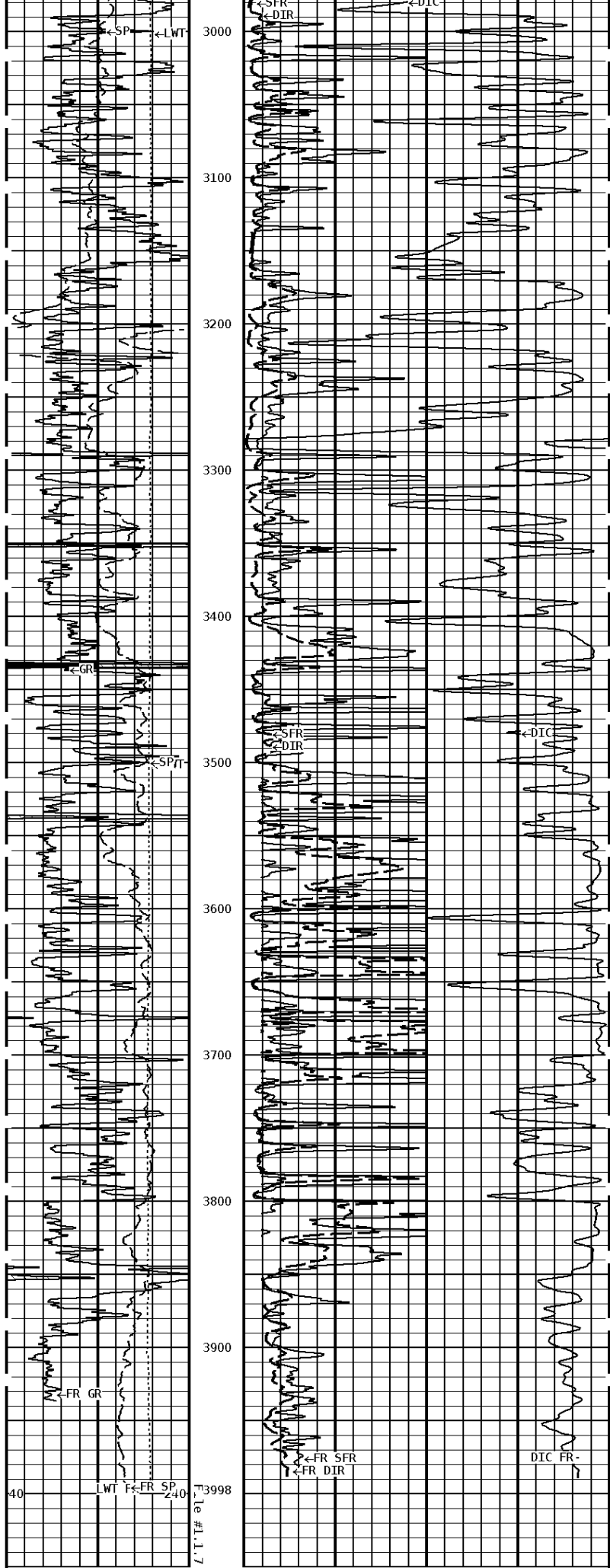
GR

SP LWT


SFR-DIC
DIR

1900
2000
2100
2200
2300
2400
2500
2600
2700
2800
2900





1:1200 MAIN SECTION

GAMMA RAY API UNITS 150  300 0 150		DEEP CONDUCTIVITY MMHO 2000 1000 1000 0	
SPONTANEOUS POTENTIAL mV → ← 20		SHALLOW FOCUSED OHMM 0.0 500.0 0.0 50.0	
TENSION LBS 10000 0		DEEP INDUCTION OHMM 0.0 500.0 0.0 50.0	



Tucker
 WIRELINE SERVICES

Company: ANDERSON ENERGY, INC.
 Well: KING B #1
 Location: 1555' FSL & 1000' FEL
 Logged: 2012-06-08
 K.B. Elev: 2148.0