



DUAL INDUCTION LOG

Company Palomino Petroleum		Company Palomino Petroleum	
Well	ABS #1	Well	ABS #1
Field	Wildcat	Field	Wildcat
County	Ness	County	Ness
State	Kansas	State	Kansas
Location:		API #: 15 135 25922	
SEC 18 TWP 17S RGE 26W		2394' FNL & 2467' FEL	
Permanent Datum	Ground Level	Elevation	2556'
Log Measured From	KB 11' AGL		
Drilling Measured From	KB		
Other Services		CDNL ML	
Elevation		K.B. 2567'	
		D.F. 2566'	
		G.L. 2556'	
Date	9-3-16		
Run Number	One		
Depth Driller	4652'		
Depth Logger	4654'		
Bottom Logged Interval	4652'		
Top Log Interval	200'		
Casing Driller	8 5/8" @ 218'		
Casing Logger	218'		
Bit Size	7 7/8"		
Type Fluid in Hole	Chemical		
Density / Viscosity	9.3/50		
pH / Fluid Loss	10/8.8		
Source of Sample	Pit		
Rm @ Meas. Temp	2.0@74degf		
Rmf @ Meas. Temp	1.5@74degf		
Rmc @ Meas. Temp	2.4@74degf		
Source of Rmf / Rmc	Calculated		
Rm @ BHT	1.29@114degf		
Time Circulation Stopped	2:00 a.m.		
Time Logger on Bottom	4:30 a.m.		
Maximum Recorded Temperature	114degf		
Equipment Number	T127		
Location	Hays, KS		
Recorded By	Gus Pfannenstiel		
Witnessed By	Mr. Ryan Seib		

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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 interpretation, and we shall not, except in the case of gross or willful 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 set out in our current Price Schedule.

Comments

Thanks for using Gemini Wireline LLC
785-625-1182
Utica West to B Rd. South to 220Rd.
West 1 3/4 mile South into.



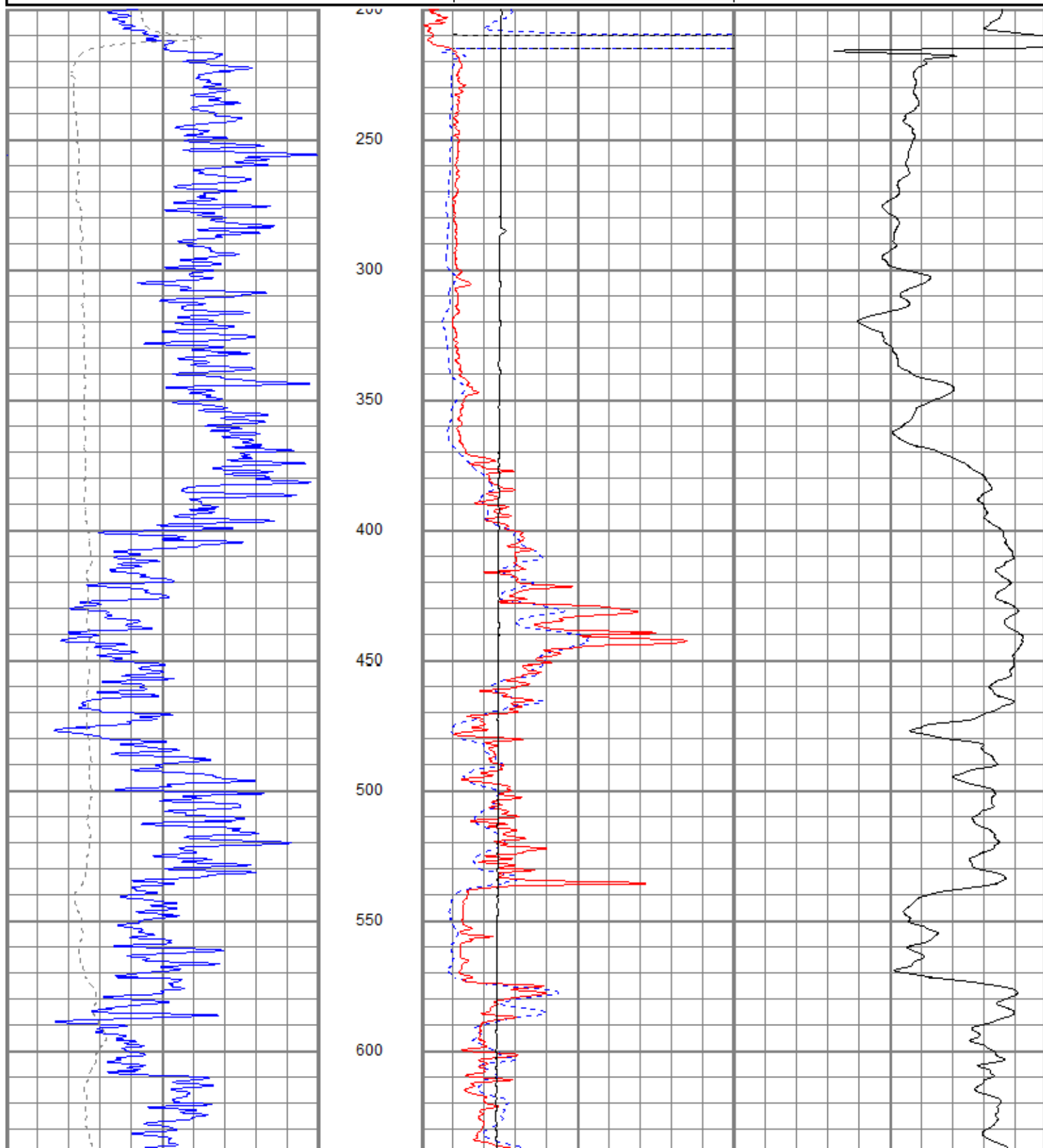
Main Pass

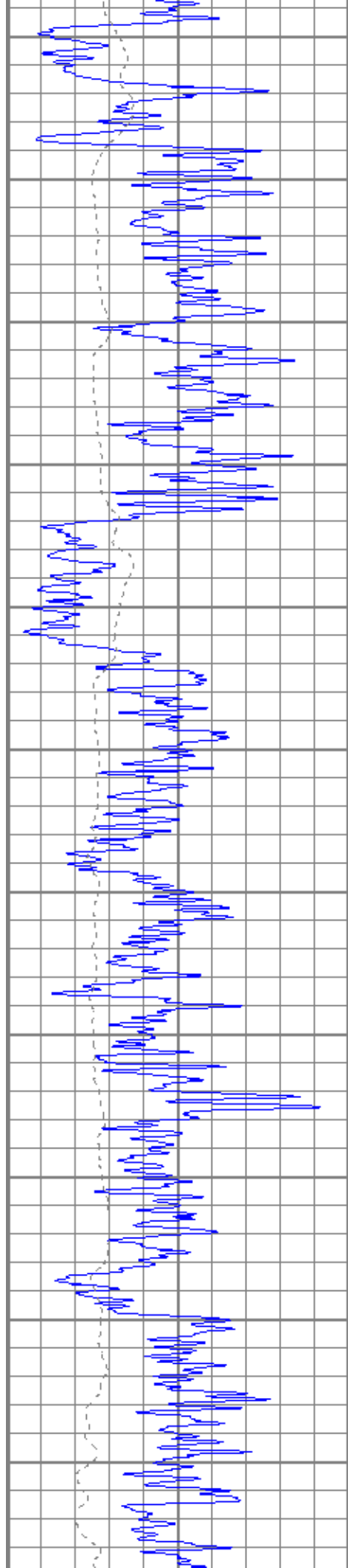
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 Dataset Pathname pass3
 Presentation Format kdillin2
 Dataset Creation Sat Sep 03 04:43:25 2016
 Charted by Depth in Feet scaled 1:600

0	GR (GAPI)	150
-200	SP (mV)	0

1000	CILD (mmho/m)	0
10000	LTEN (lb)	0

0	RILD (Ohm-m)	50
0	RLL3 (Ohm-m)	50
50	RILD x 10 (Ohm-m)	500
50	RLL3 x 10 (Ohm-m)	500





650

700

750

800

850

900

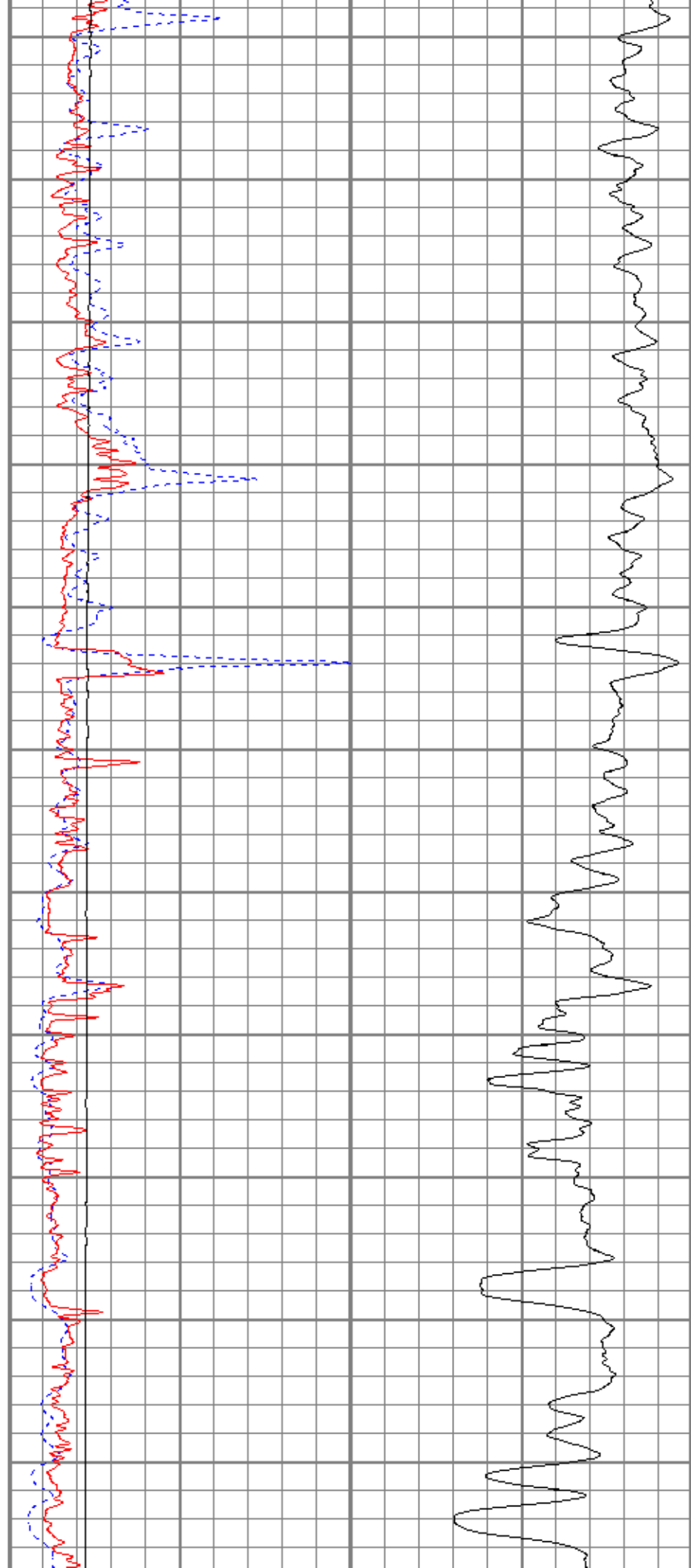
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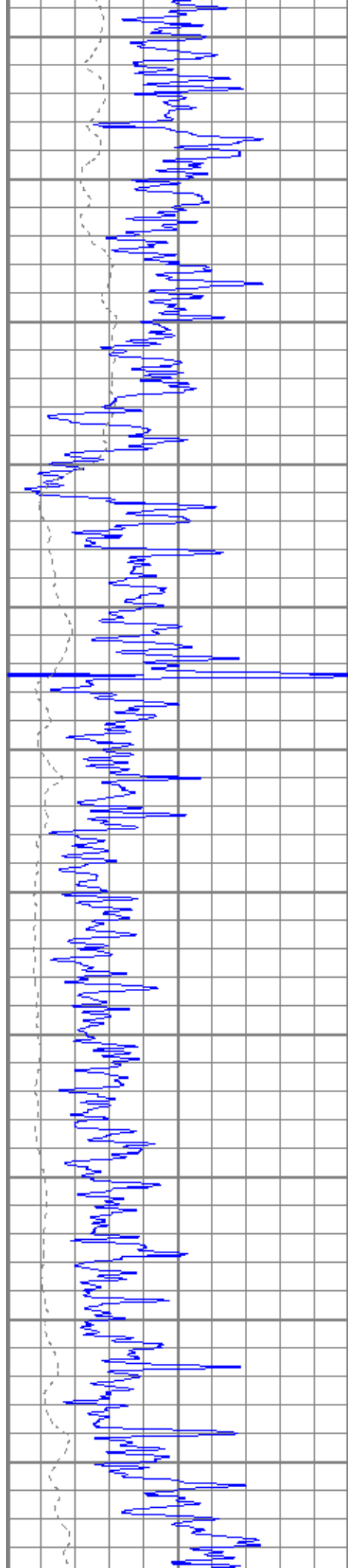
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1050

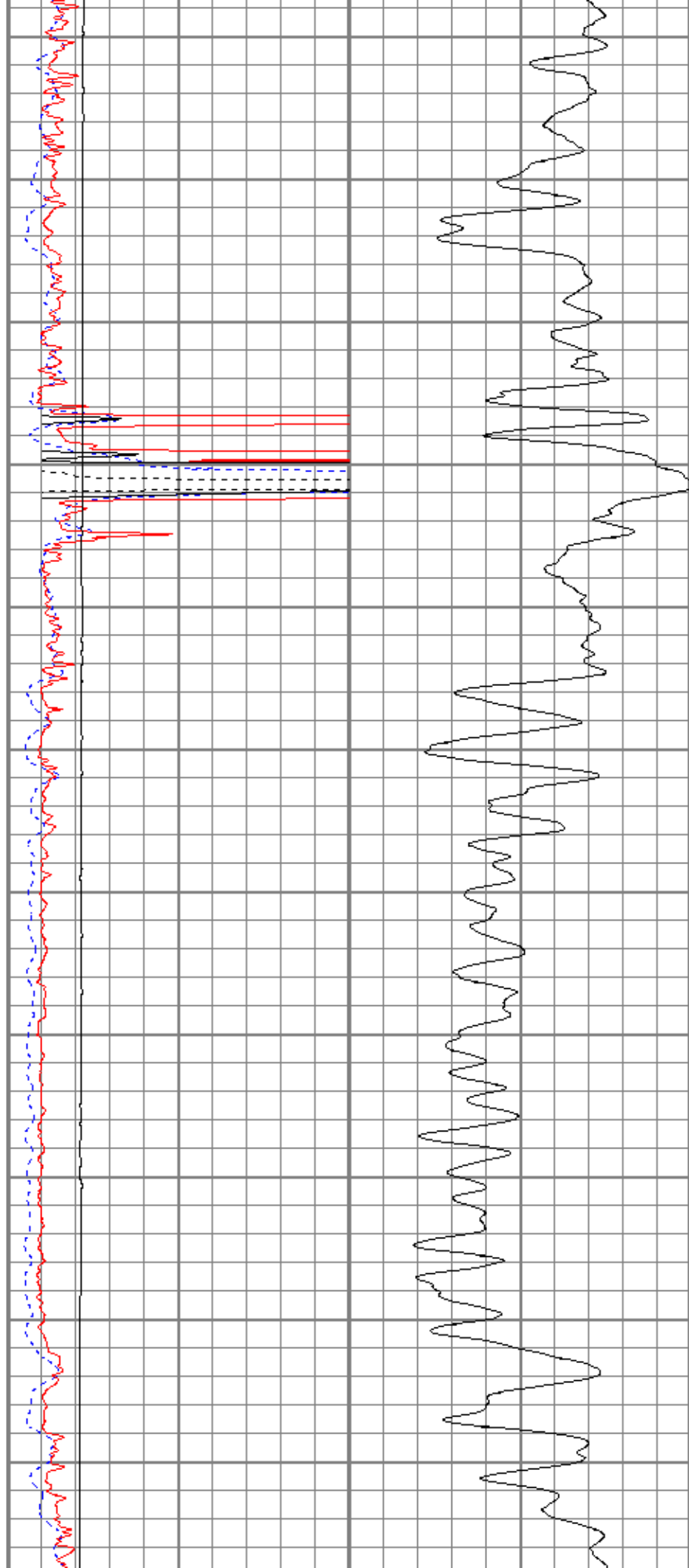
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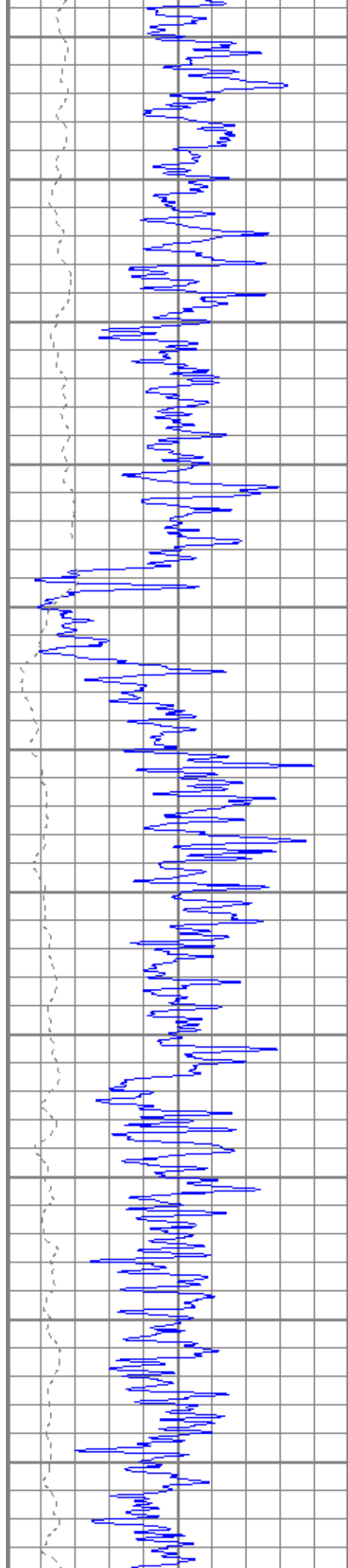
1150





1200
1250
1300
1350
1400
1450
1500
1550
1600
1650
1700





1750

1800

1850

1900

1950

2000

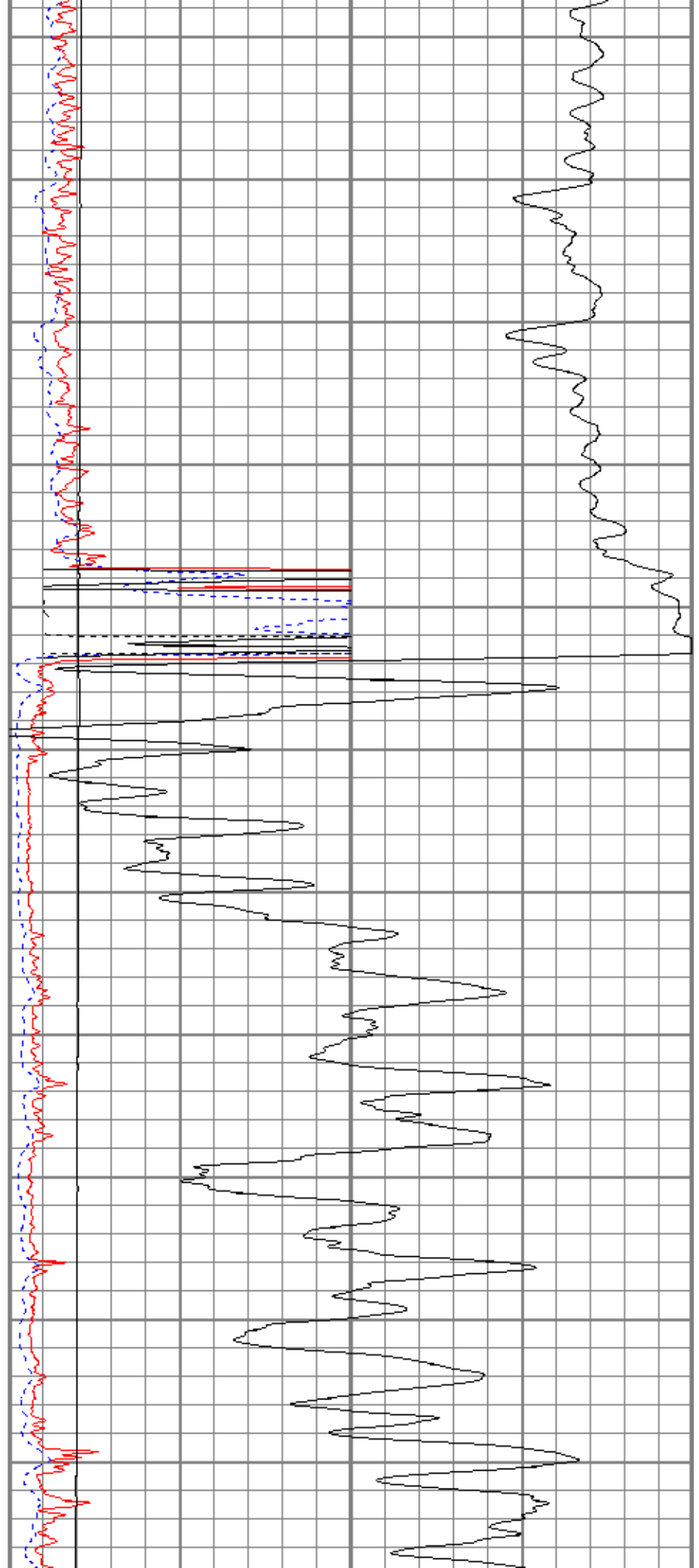
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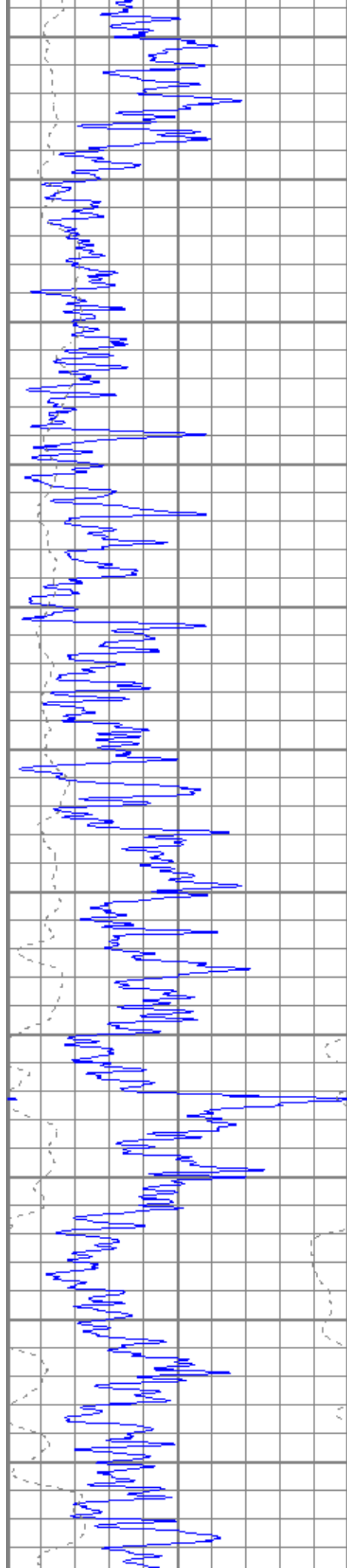
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2150

2200

2250





2300

2350

2400

2450

2500

2550

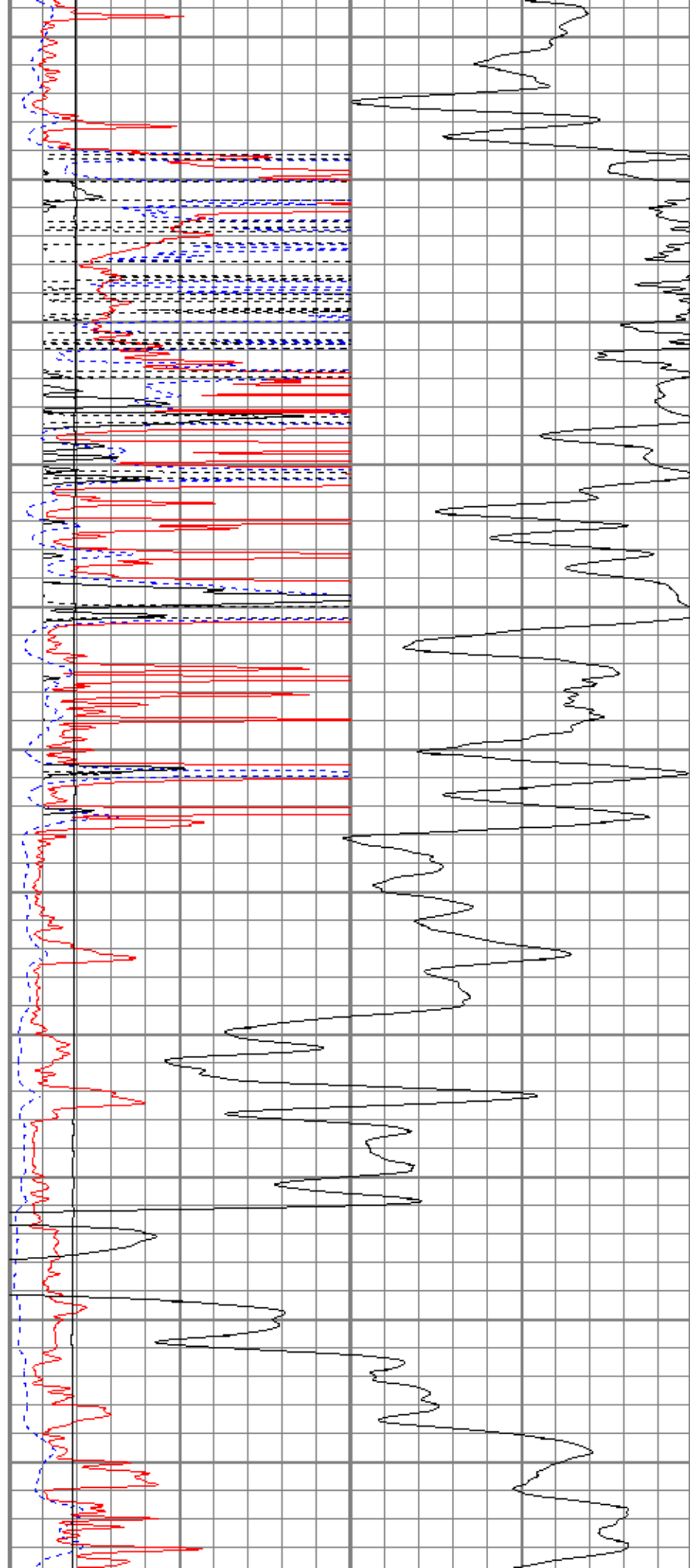
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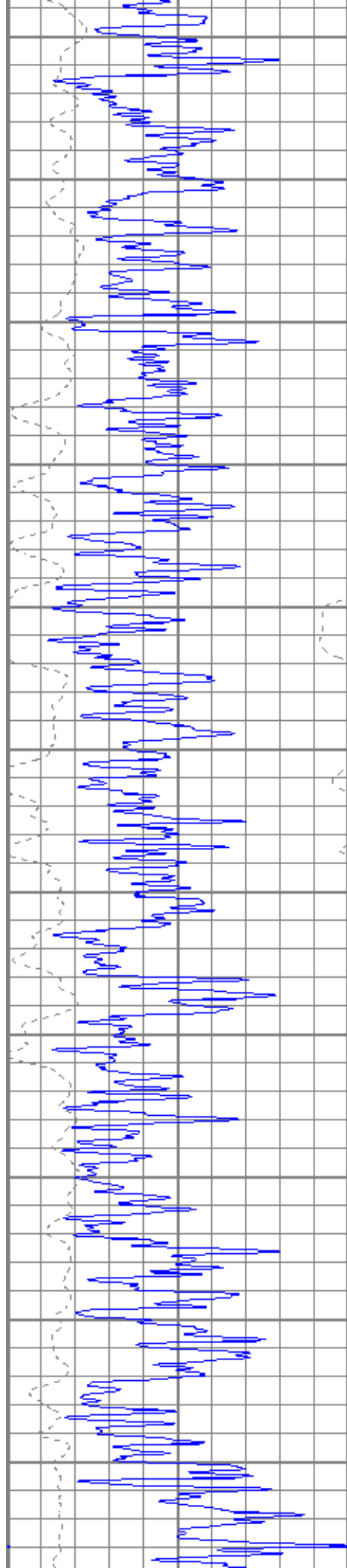
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2700

2750

2800





2850

2900

2950

3000

3050

3100

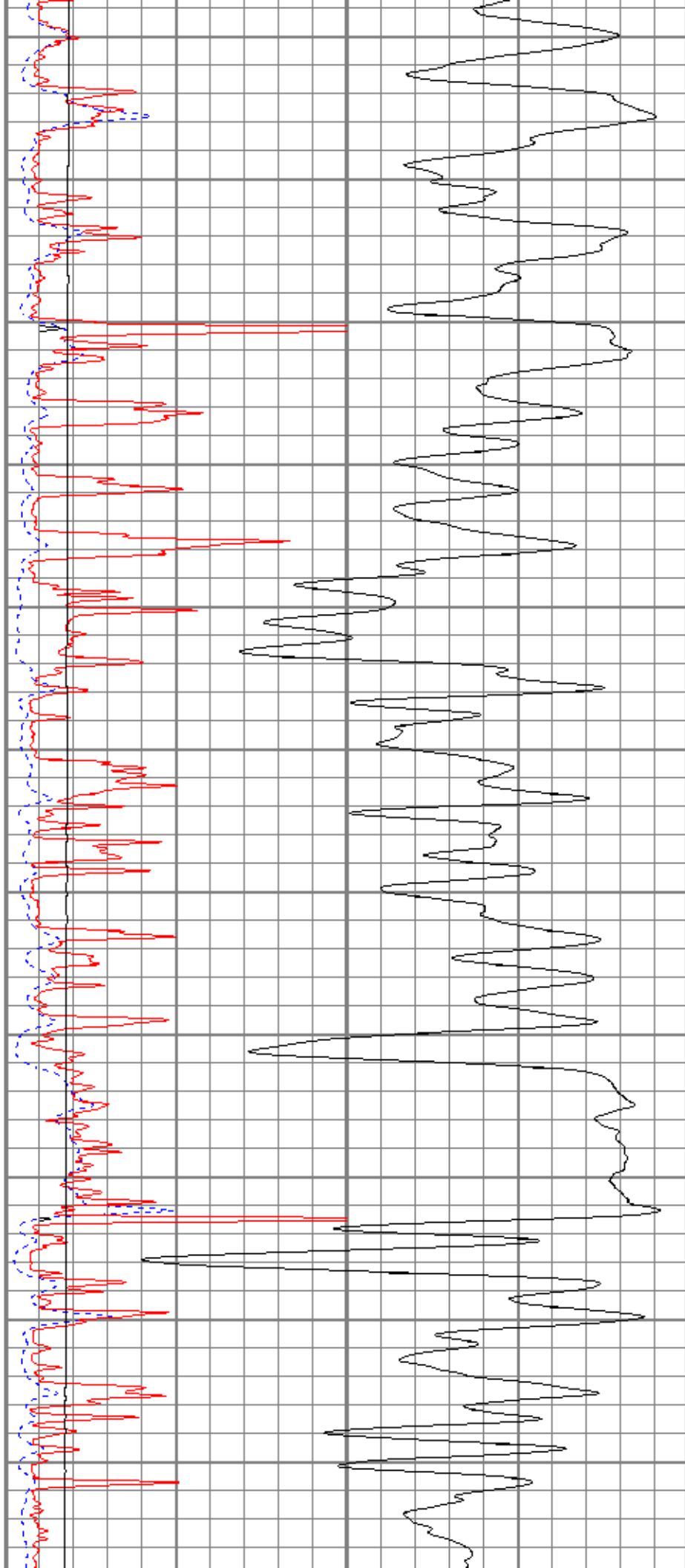
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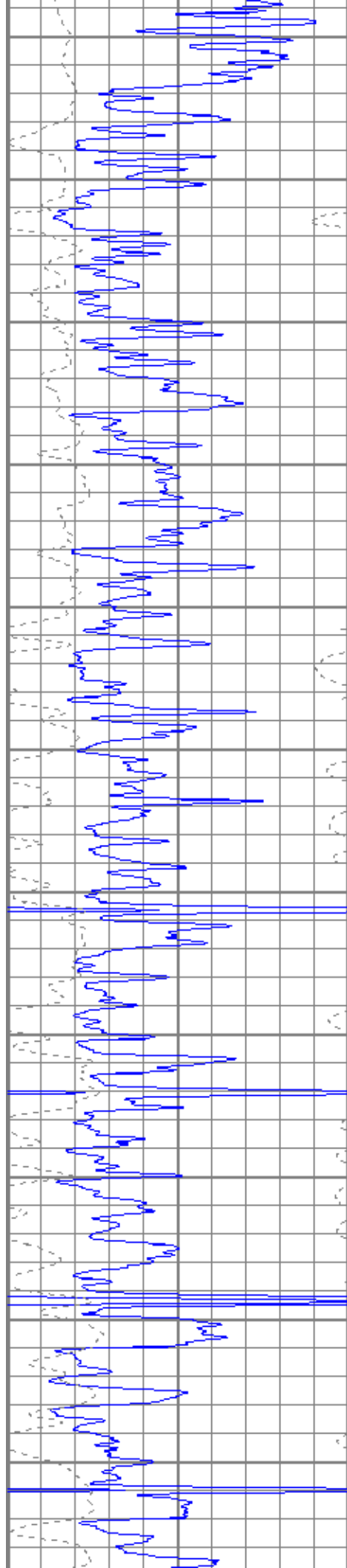
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3250

3300

3350





3400

3450

3500

3550

3600

3650

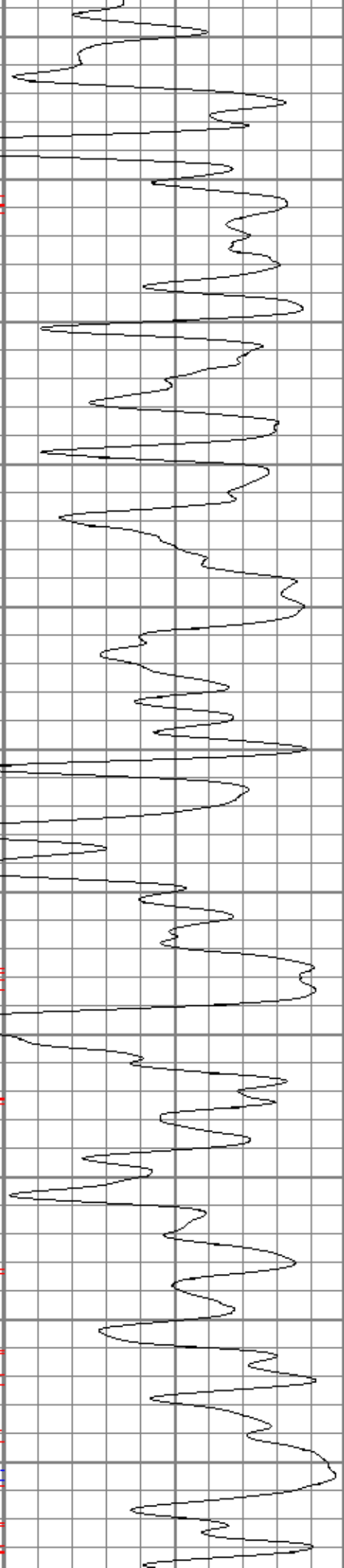
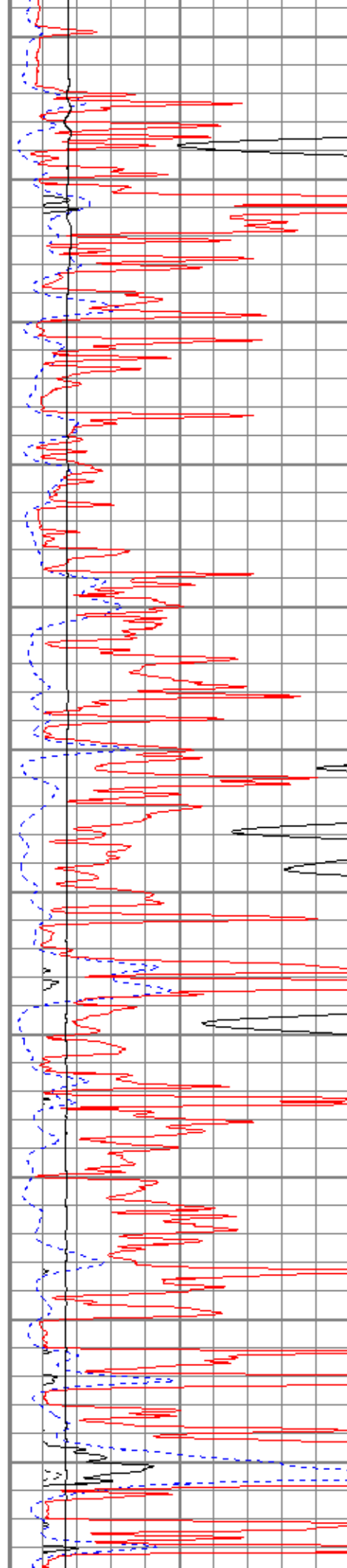
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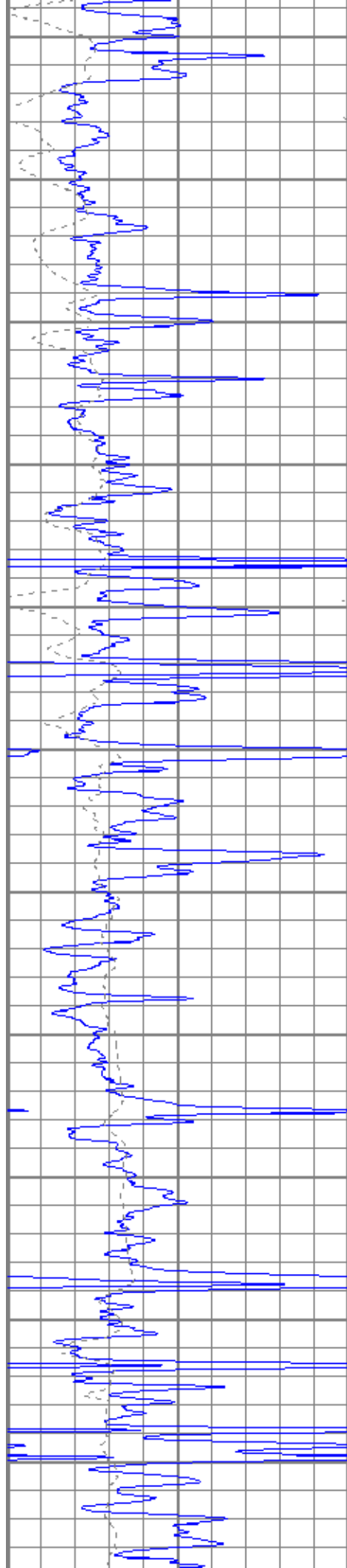
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3800

3850

3900





3950

4000

4050

4100

4150

4200

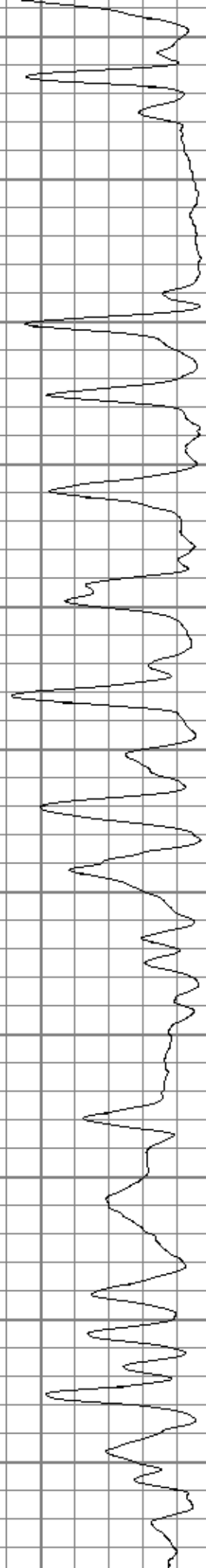
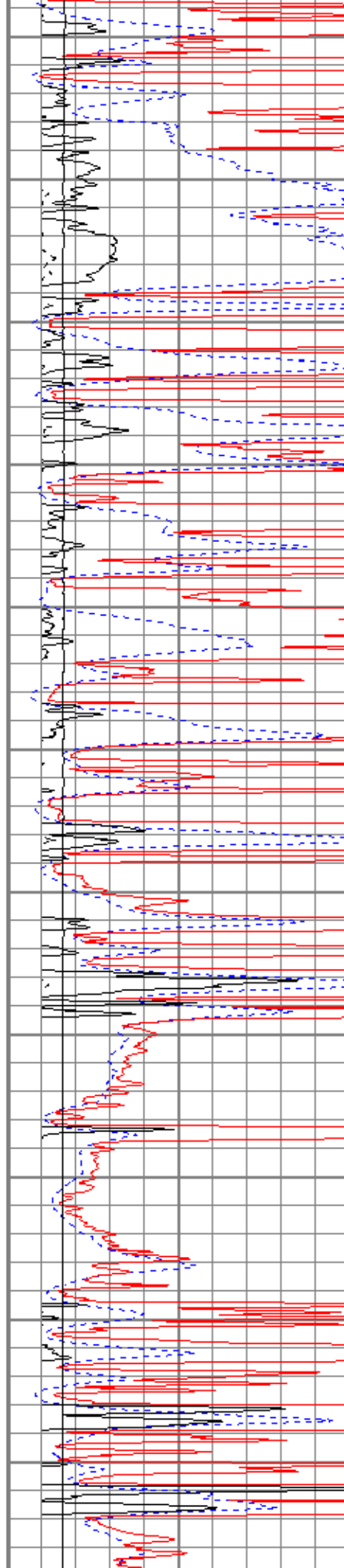
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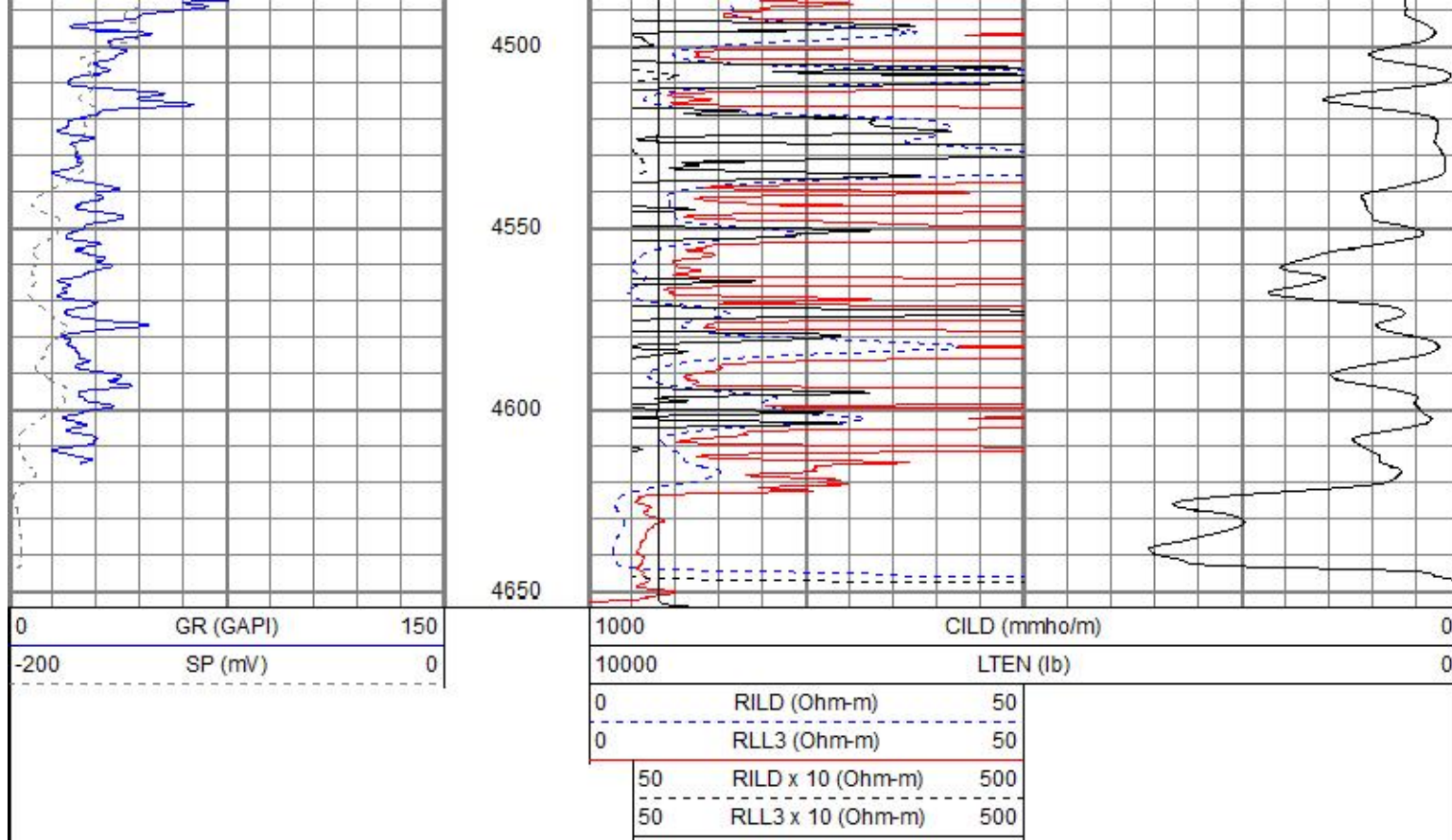
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4350

4400

4450

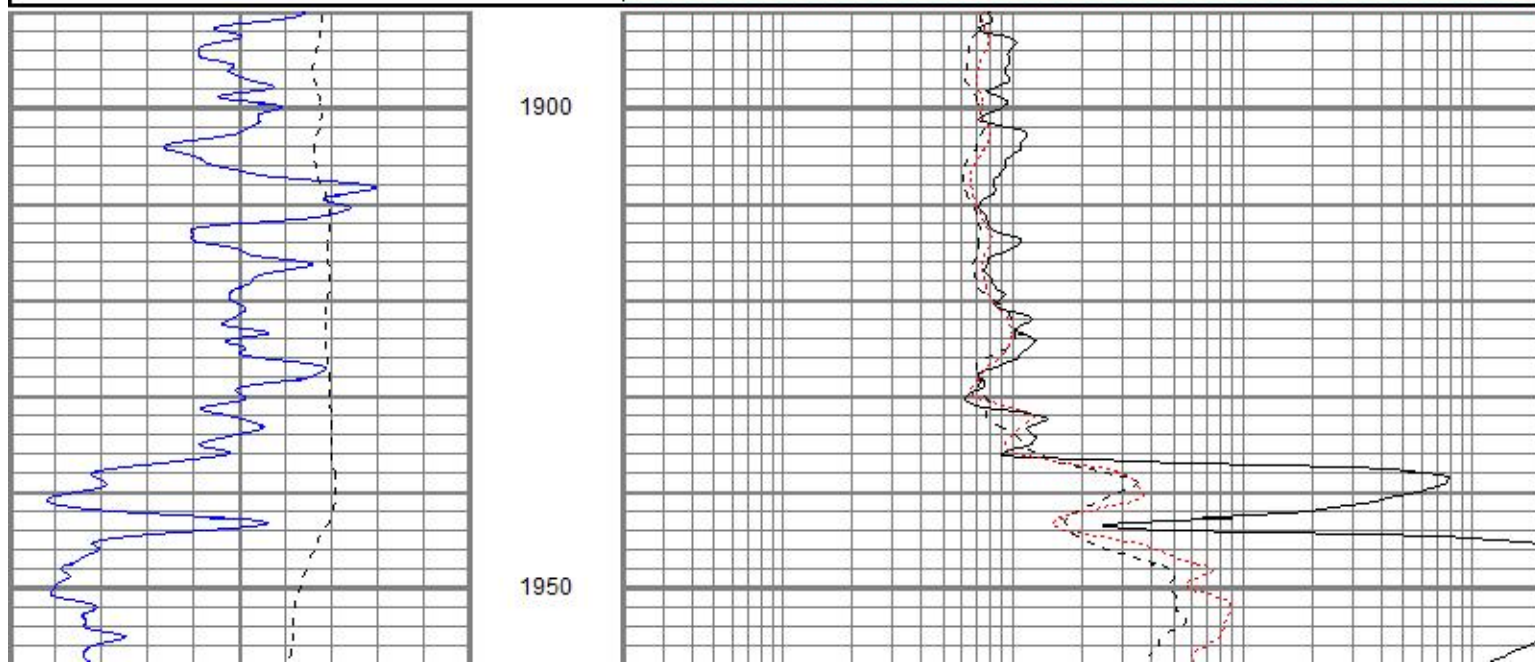


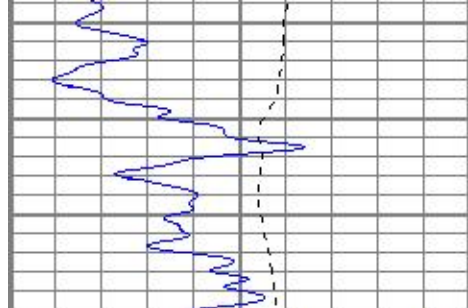


Main Pass

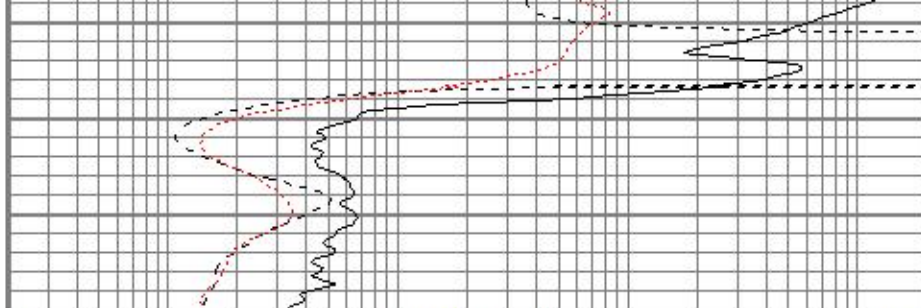
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 Dataset Pathname pass3
 Presentation Format kdil
 Dataset Creation Sat Sep 03 04:43:25 2016
 Charted by Depth in Feet scaled 1:240

0	GR (GAPI)	150	0.2	RILD (Ohm-m)	2000
-100	SP (mV)	100	0.2	RLL3 (Ohm-m)	2000
			0.2	RILM (Ohm-m)	2000





0	GR (GAPI)	150
-100	SP (mV)	100



0.2	RILD (Ohm-m)	2000
0.2	RLL3 (Ohm-m)	2000
0.2	RILM (Ohm-m)	2000

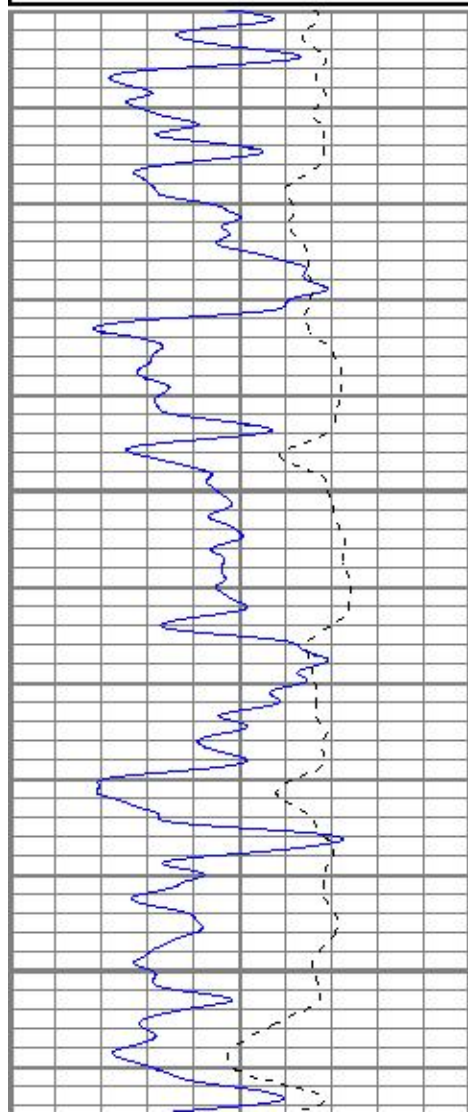


Main Pass

Database File ppabs#1oh.db
 Dataset Pathname pass3.1
 Presentation Format kdil
 Dataset Creation Sat Sep 03 05:12:04 2016
 Charted by Depth in Feet scaled 1:240

0	GR (GAPI)	150
-100	SP (mV)	100

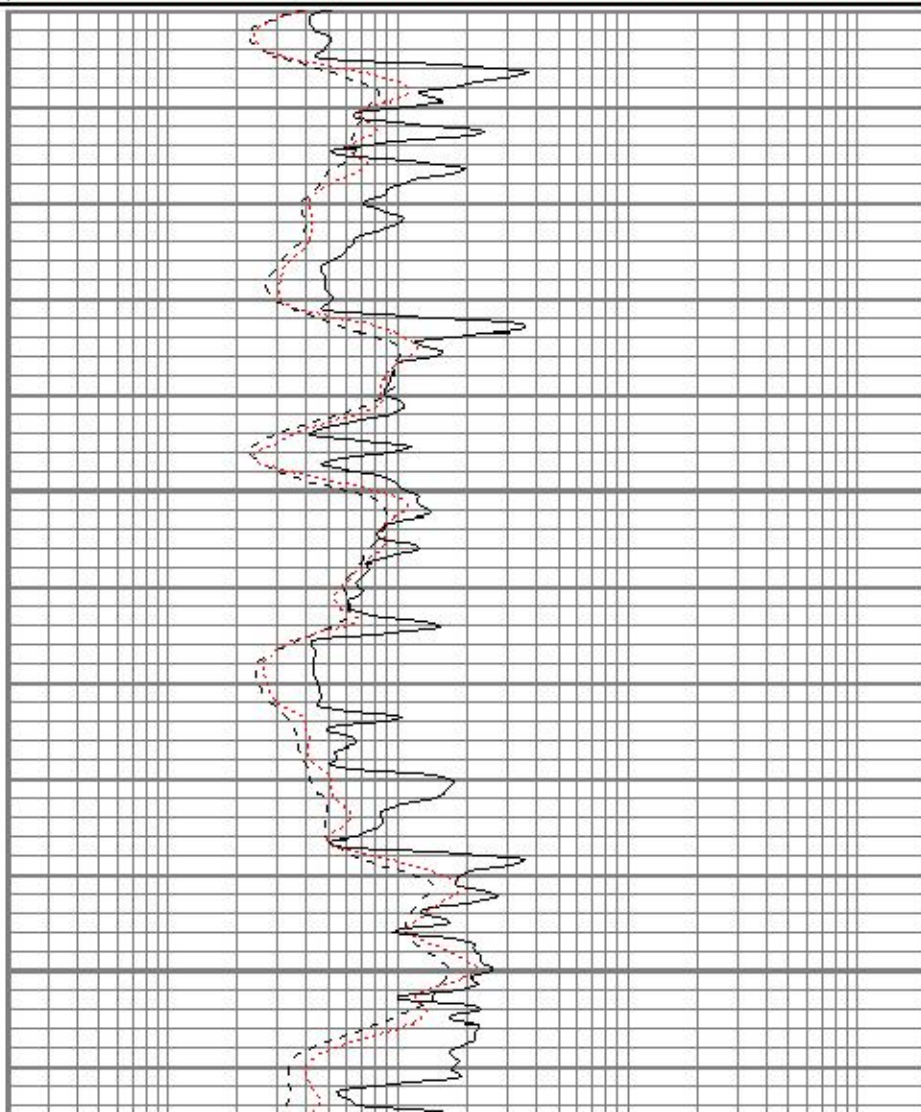
0.2	RILD (Ohm-m)	2000
0.2	RLL3 (Ohm-m)	2000
0.2	RILM (Ohm-m)	2000

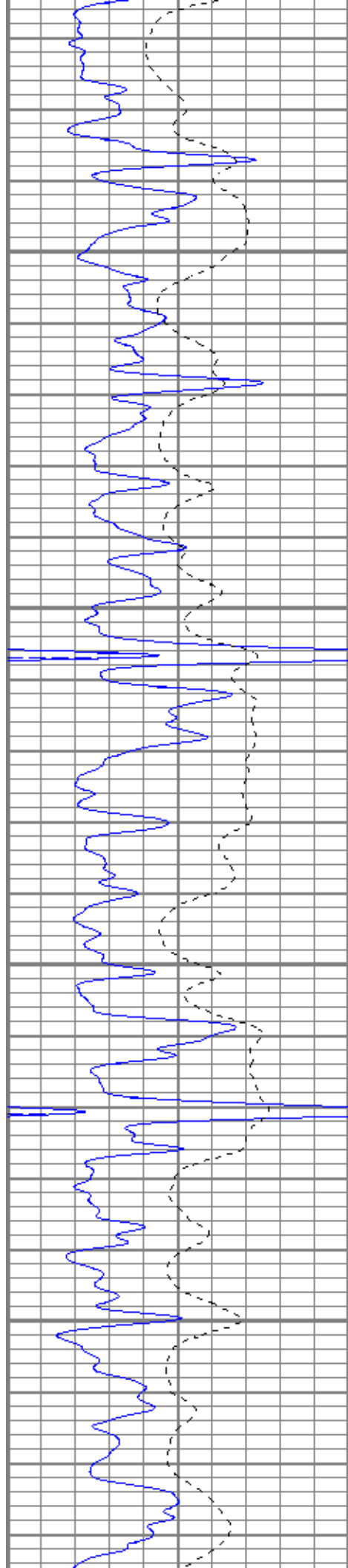


3500

3550

3600



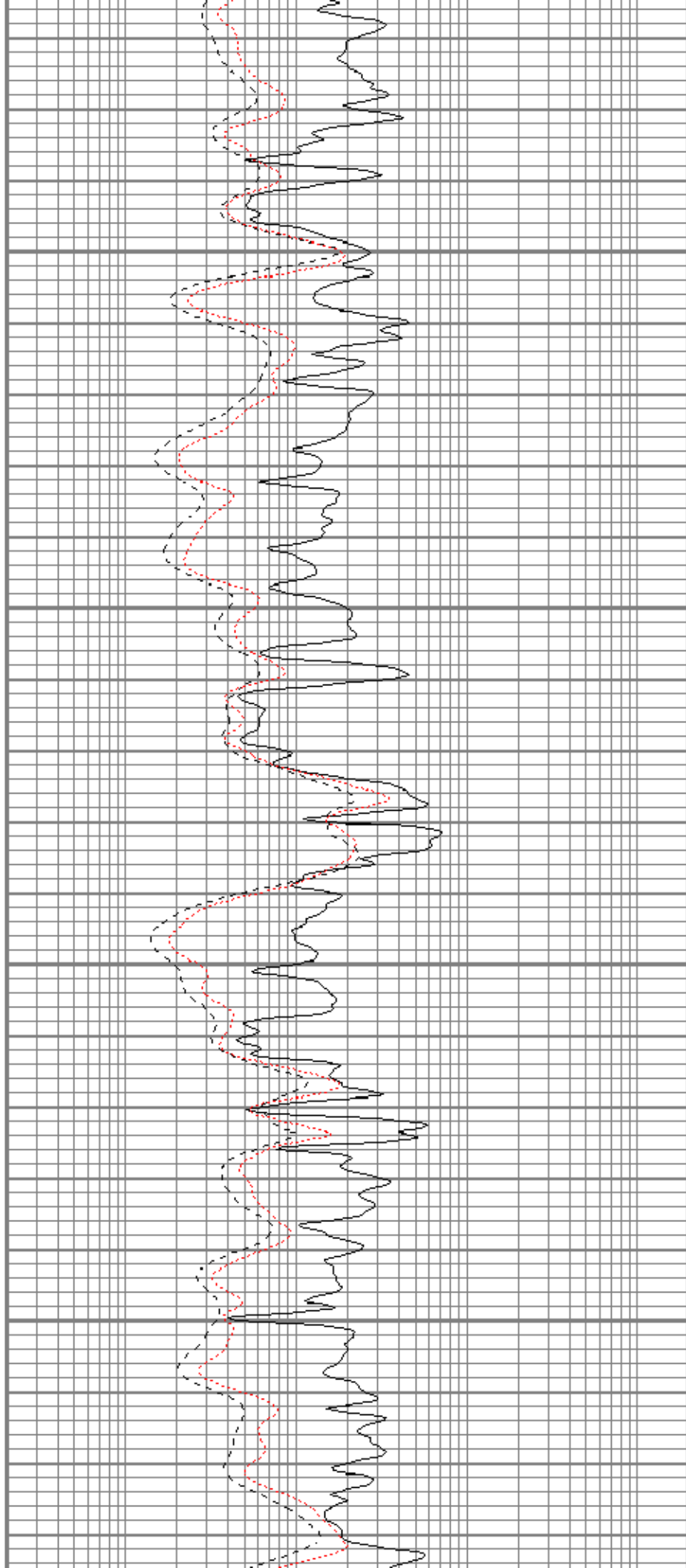


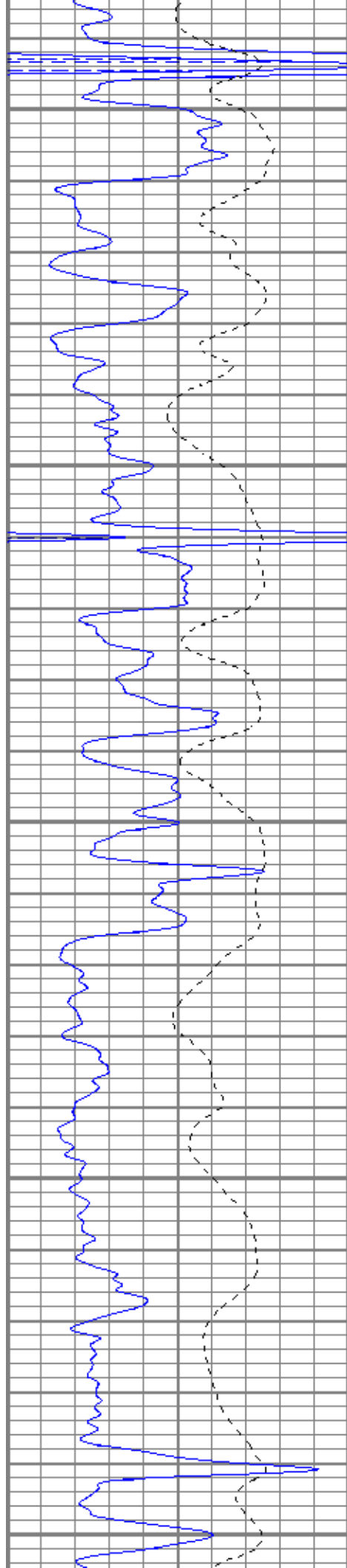
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3700

3750

3800





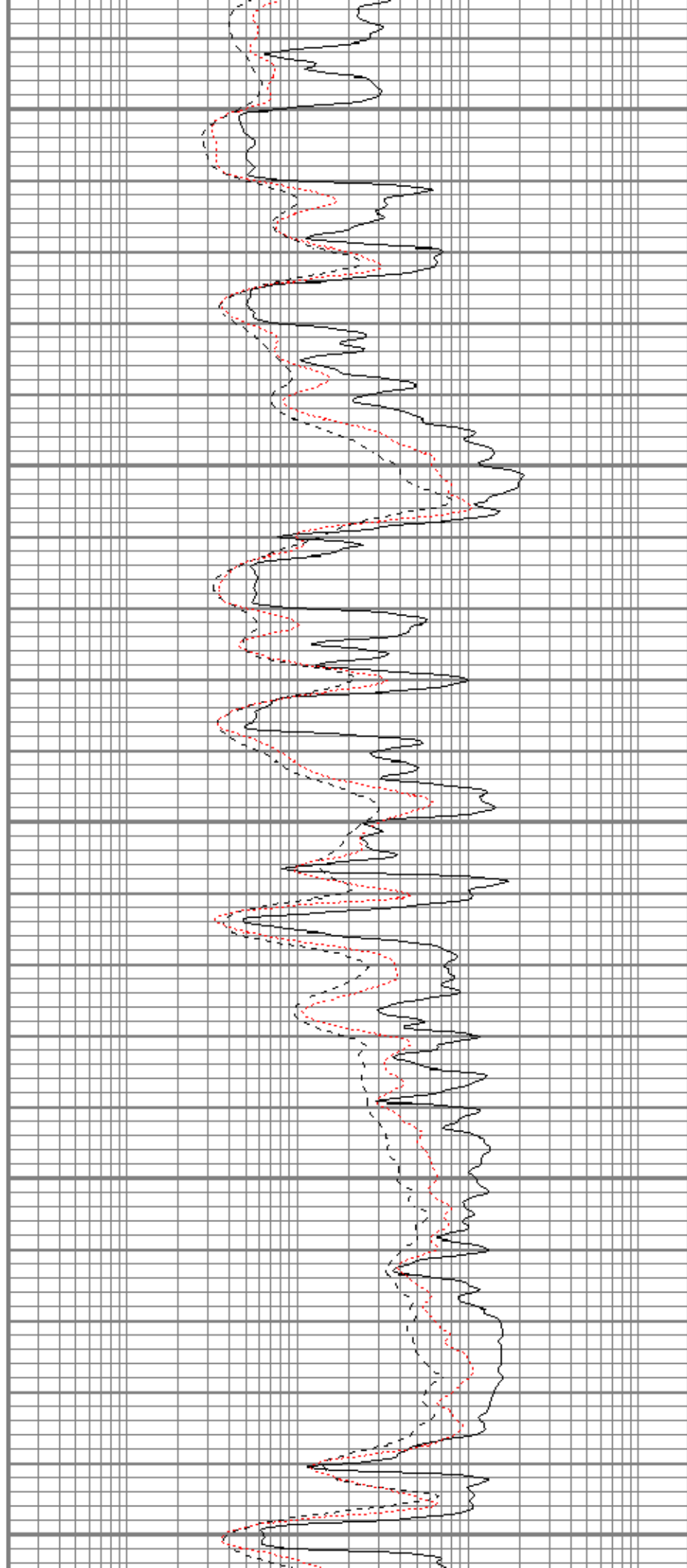
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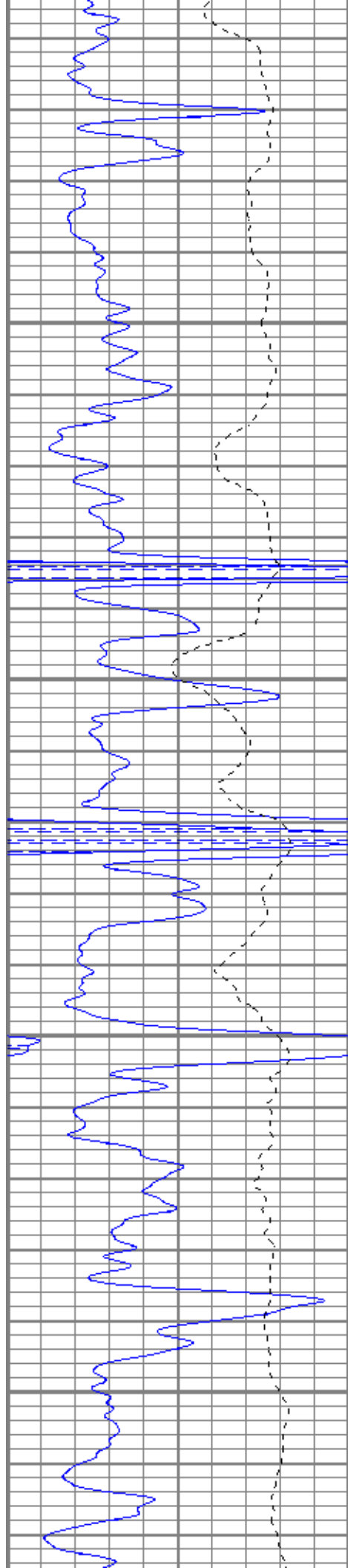
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3950

4000

4050



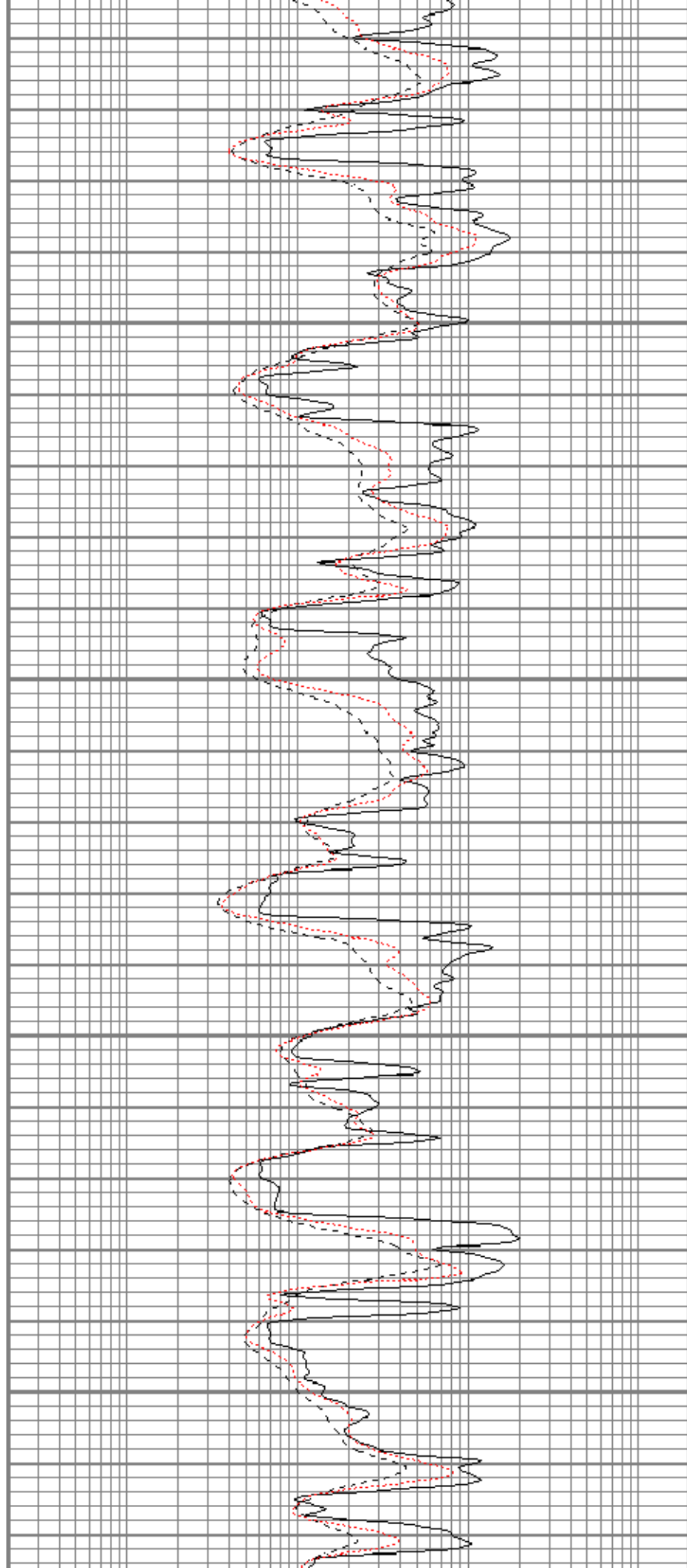


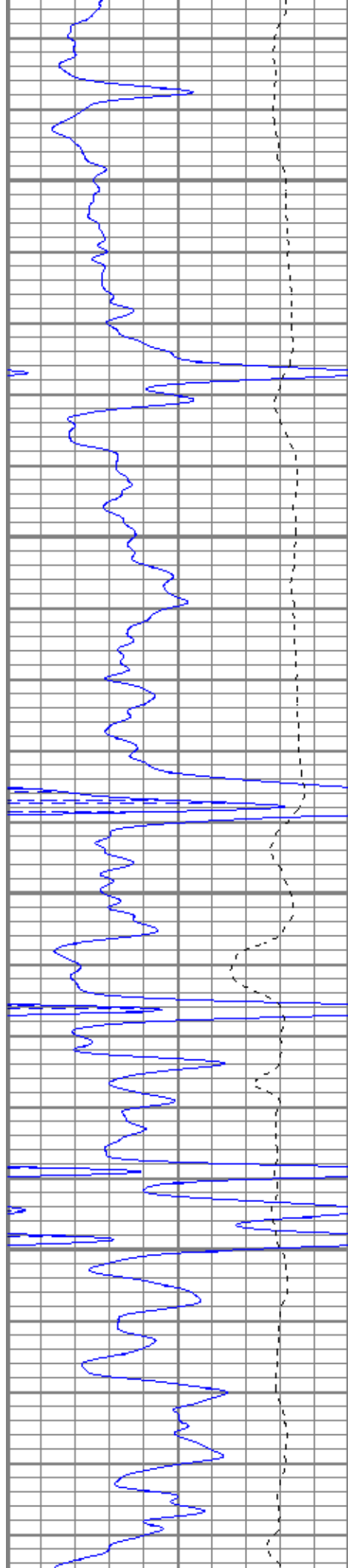
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4150

4200

4250



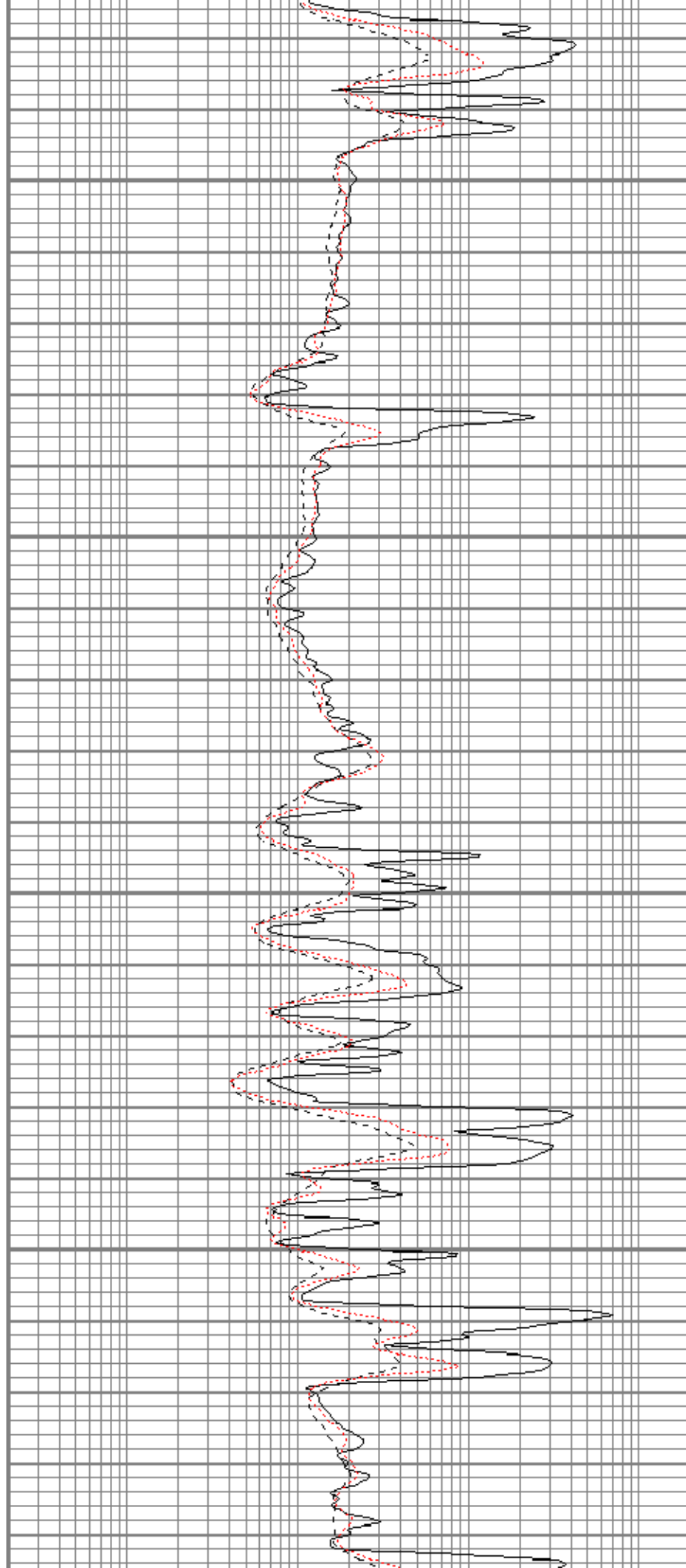


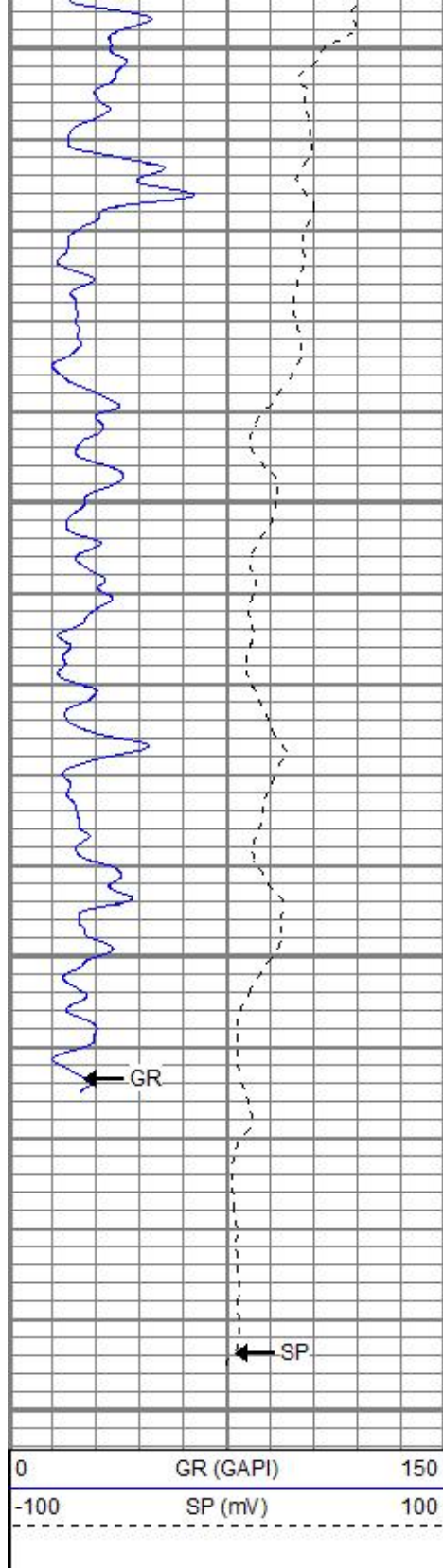
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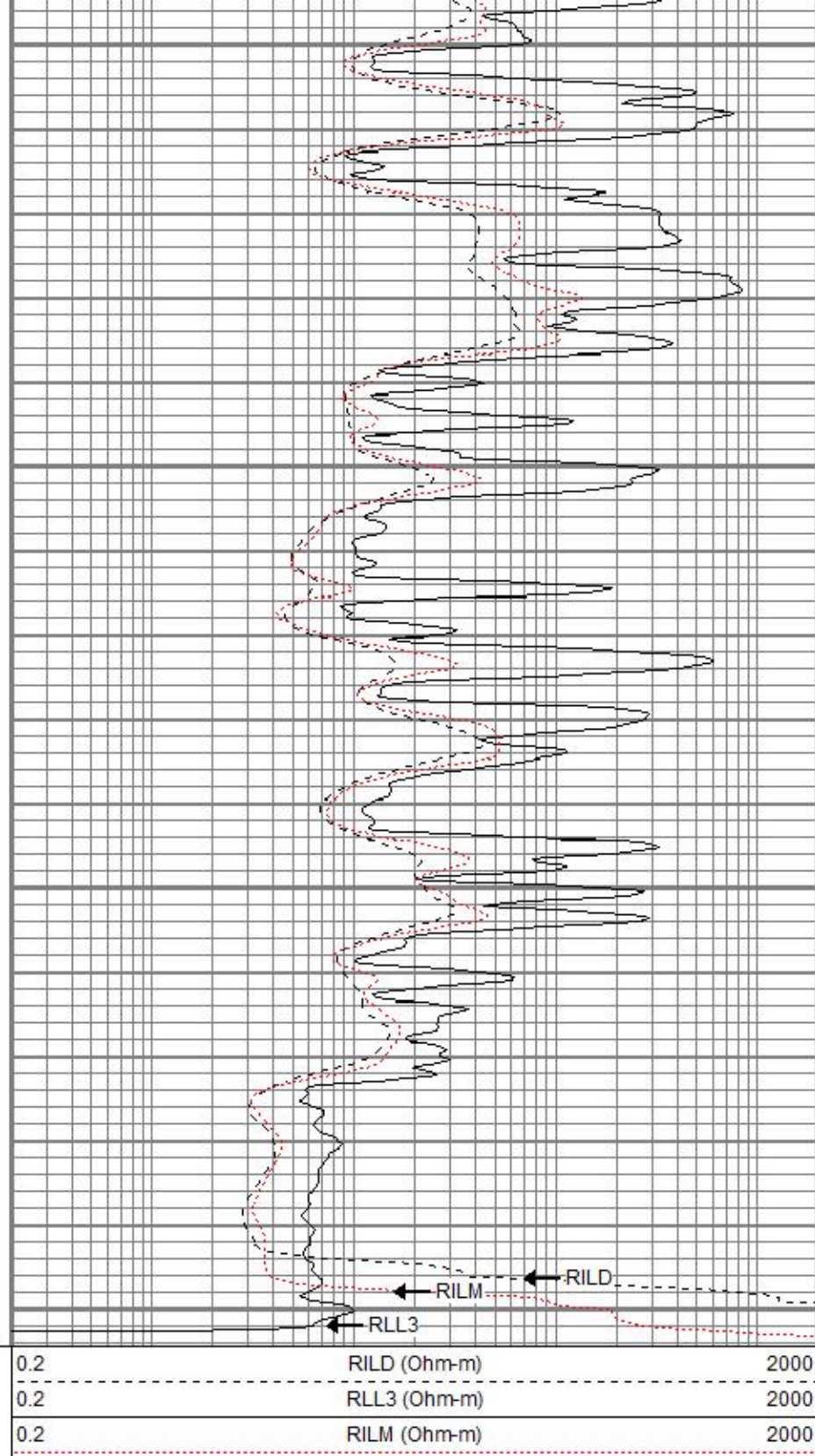


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4550

4600

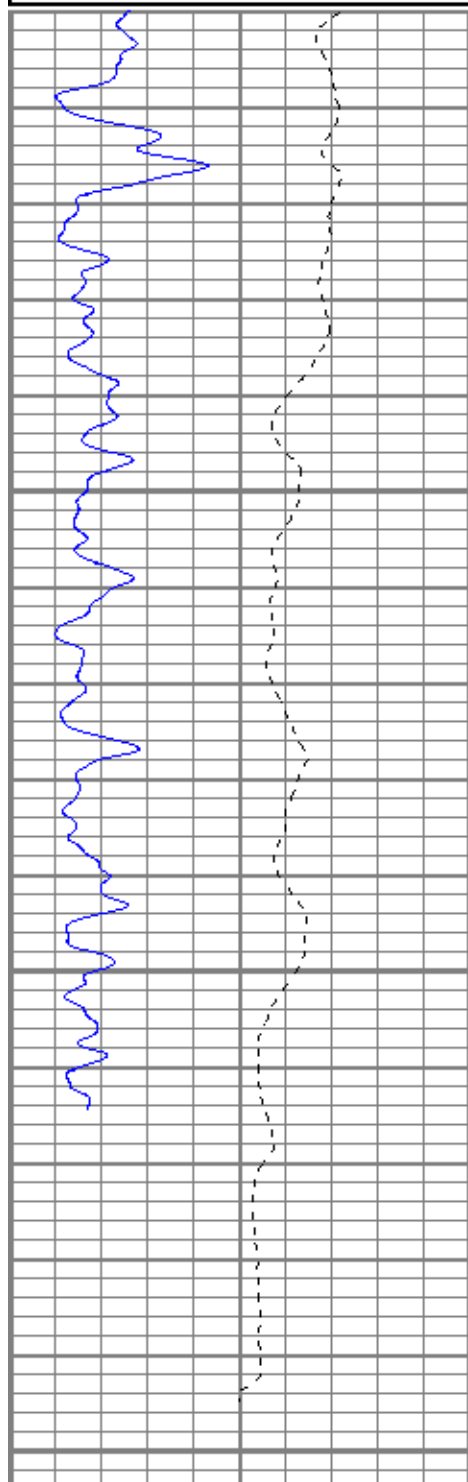
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Repeat Pass

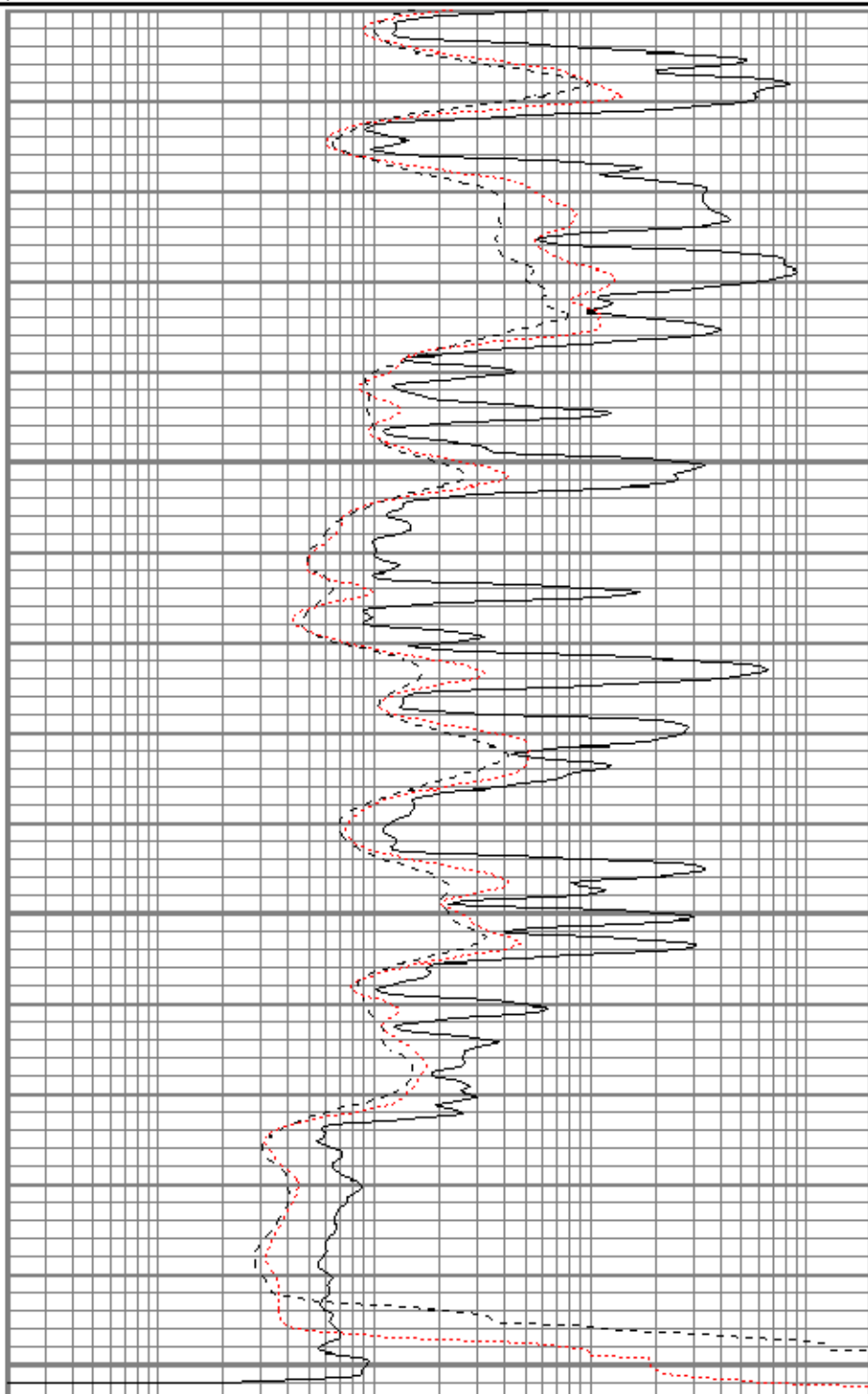
Database File ppabs#1oh.db
 Dataset Pathname pass2.1
 Presentation Format kdil
 Dataset Creation Sat Sep 03 05:35:50 2016
 Charted by Depth in Feet scaled 1:240

	GR (GAPI)	150
-100	SP (mV)	100



0	GR (GAPI)	150
-100	SP (mV)	100

0.2	RILD (Ohm-m)	2000
0.2	RLL3 (Ohm-m)	2000
0.2	RILM (Ohm-m)	2000



0.2	RILD (Ohm-m)	2000
0.2	RLL3 (Ohm-m)	2000
0.2	RILM (Ohm-m)	2000

Calibration Report

Database File ppabs#1oh.db
Dataset Pathname pass2.1
Dataset Creation Sat Sep 03 05:35:50 2016

Dual Induction Calibration Report

Serial-Model: 1989-ADM
Surface Cal Performed: Mon Jul 11 21:35:42 2016
Downhole Cal Performed: Mon Jul 11 21:36:11 2016
After Survey Verification Performed: Mon Jul 11 21:36:11 2016

Surface Calibration								
Readings			References			Results		
Loop:	Air	Loop		Air	Loop		m	b
Deep	0.002	0.656	V	0.000	350.000	mmho/m	535.560	-1.118
Medium	0.003	0.745	V	0.000	400.000	mmho/m	538.828	-1.427
Internal:	Zero	Cal		Zero	Cal		m	b
Deep	0.002	0.656	V	0.000	350.000	mmho/m	535.220	-1.003
Medium	0.003	0.745	V	0.000	550.000	mmho/m	741.357	-2.036

Downhole Calibration								
Readings			References			Results		
Internal:	Zero	Cal		Zero	Cal		m	b
Deep	-0.036	349.993	mmho/m	-0.114	350.108	mmho/m	1.001	-0.078
Medium	0.039	400.181	mmho/m	0.053	399.799	mmho/m	0.999	0.013
Shallow	2.503	0.015	V	500.000	2.000	Ohm-m	200.177	-2.046

After Survey Verification								
Readings			Targets			Results		
Internal:	Zero	Cal		Zero	Cal		m'	b'
Deep	0.000	0.000	mmho/m	-0.036	349.993	mmho/m	1.001	-0.078
Medium	0.000	0.000	mmho/m	0.039	400.181	mmho/m	0.999	0.013
Shallow	0.000	0.000	Ohm-m	500.000	2.000	Ohm-m	1.000	0.000

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Neutron Calibration Report								
Serial Number:			2301AN					
Tool Model:			Oilex					
Performed:			Tue Jun 28 11:51:54 2016					
Calibrator Value:			1		NAPI			
Calibrator Reading:			1		cps			
Sensitivity:			1		NAPI/cps			

Gamma Ray Calibration Report								
Serial Number:			1					
Tool Model:			A					
Performed:			Tue Jun 28 11:51:59 2016					
Calibrator Value:			1.0		GAPI			
Background Reading:			0.0		cps			
Calibrator Reading:			1.0		cps			
Sensitivity:			0.7000		GAPI/cps			

Temperature Calibration Report					
Serial Number:		1			
Tool Model:		A			
Performed:		Sat Apr 09 21:14:20 2016			
		Reference		Reading	
Low Reference:		0.00	degF	0.00	degF
High Reference:		32.00	degF	32.00	degF
Gain:		1.00			

Offset: 0.00
Delta Spacing: 1

Inclinometer Calibration Report

Performed: Fri Nov 13 12:11:33 2015

	Low Read.	High Read.	Low Ref.	High Ref.	
X Accelerometer	205.00	1843.00	-1.00	1.00	gee
Y Accelerometer	205.00	1843.00	-1.00	1.00	gee
Z Accelerometer					gee

Sensor	Offset (ft)	Schematic	Description	Length (ft)	O.D. (in)	Weight (lb)
PSTAT	38.23		CHD-STD	0.50	1.69	1.00
GR	36.95		ADT1PULSE-A (1) Pulsed Interface Tool #1	0.83	3.50	10.00
TEMP	33.98		ADT1ADC-A (1) Analog Interface #1	0.83	3.50	10.00
ASTAT	33.69		ADT1SENSORS-A (1)	4.54	3.50	10.00
GRD	33.44		NEU-Oilex (2301AN) Oilex 100V NEU	4.27	3.50	80.00
ACCY	33.27					
ACCX	33.27					
SSTAT	33.27					
NEU	32.50					
LStat	22.54					
LS8	21.88		ADT1LITH-A (1) Admyr Litho Density Tool	9.29	3.50	240.00
LS7	21.88					
LS6	21.88					
LS5	21.88					
LS4	21.88					
LS3	21.88					
LS2	21.88					
LS1	21.88					
LSV	21.88					
LSD	21.86					
SSV	21.67					
SS8	21.67					
SS7	21.67		DIL-ADM (1989) Dual Induction	19.71	4.00	300.00
SS6	21.67					
SS5	21.67					
SS4	21.67					
SS3	21.67					
SS2	21.67					
SS1	21.67					
DCAL	21.61					
SSD	21.27					
SP	10.60					
CILD	10.60					
CILM	6.89					
RLL3	1.70					
TR Mon	0.00					
		Dataset:	ppabs#1oh.db: field/well/run1/pass2.1			
		Total length:	38.31 ft			
		Total weight:	651.00 lb			
		O.D.:	4.00 in			