



DUAL INDUCTION LOG

Company Castle Resources, Inc.

Well Carter #1

Field Wildcat

County Decatur

State Kansas

Location:

API #: 15 039 21236

1950' FSL & 1100' FEL

SEC 28 TWP 5S RGE 27W

Permanent Datum Ground Level Elevation 2698'
Log Measured From KB 5' AGL
Drilling Measured From KB

Other Services
CDNL
ML
Elevation
K.B. 2703'
D.F. 2702'
G.L. 2698'

Date 10-19-16

Run Number One

Depth Driller 4450'

Depth Logger 4449'

Bottom Logged Interval 4447'

Top Log Interval 200'

Casing Driller 8 5/8" @ 282'

Casing Logger 282'

Bit Size 7 7/8"

Type Fluid in Hole Chemical

Density / Viscosity 9.3/54

pH / Fluid Loss 9/7.2

Source of Sample Pit

Rm @ Meas. Temp 1.6@76degf

Rmf @ Meas. Temp 1.2@76degf

Rmc @ Meas. Temp 1.92@76degf

Source of Rmf / Rmc Calculated

Rm @ BHT 1.06@114degf

Time Circulation Stopped 4:30 pm.

Time Logger on Bottom 5:30 p.m.

Maximum Recorded Temperature 114degf

Equipment Number T127

Location Hays, KS

Recorded By Gus Pfannenstiel

Witnessed By Mr. Jerry Green

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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

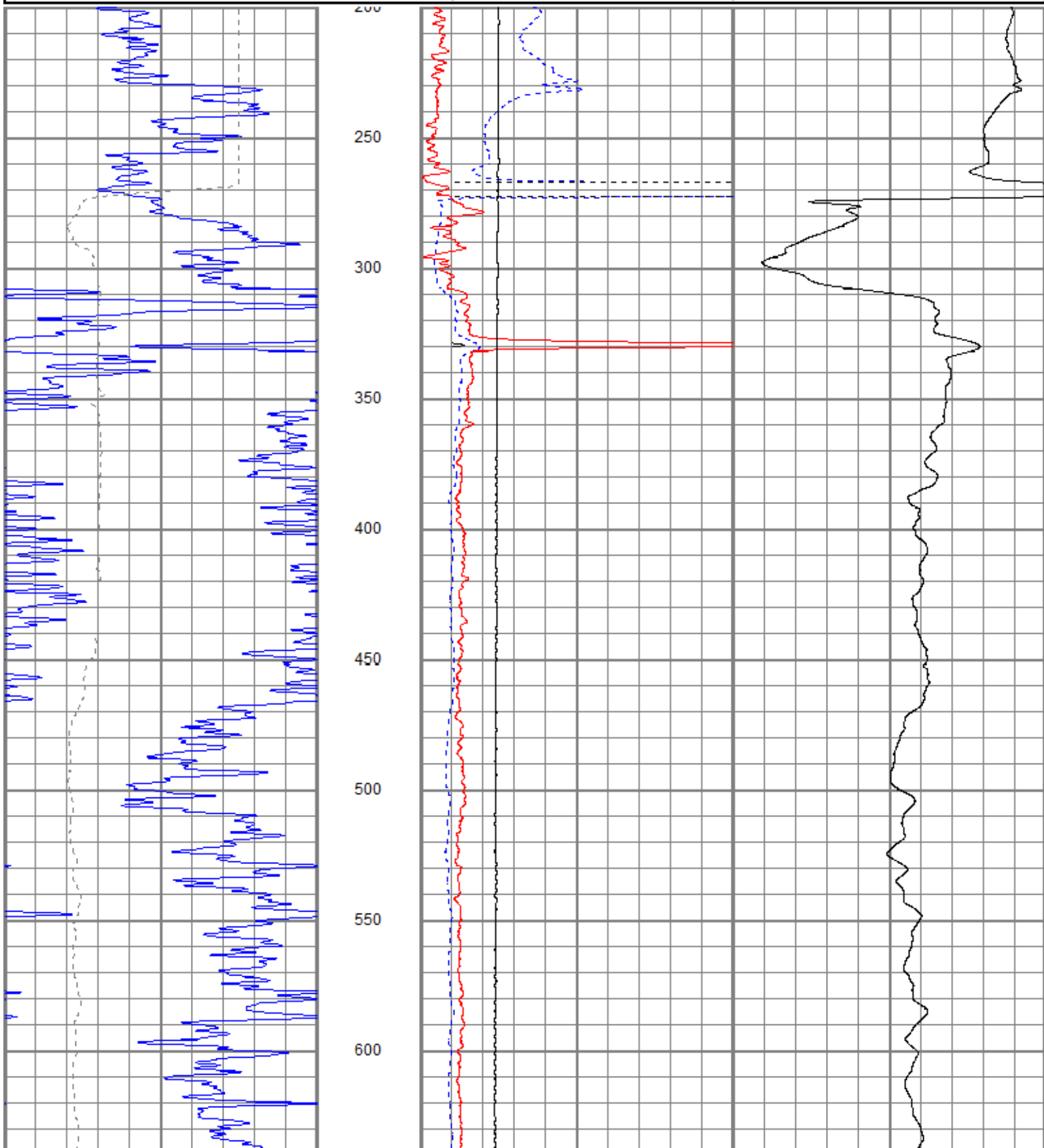


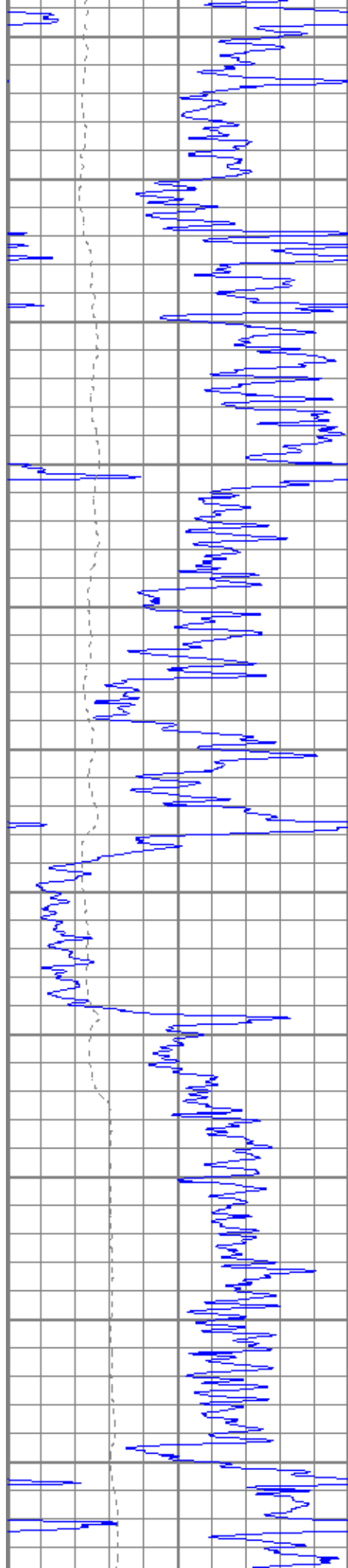
Main Pass

Database File crcarter#1oh.db
Dataset Pathname pass2dil
Presentation Format kdillin2
Dataset Creation Tue Oct 18 10:56:54 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

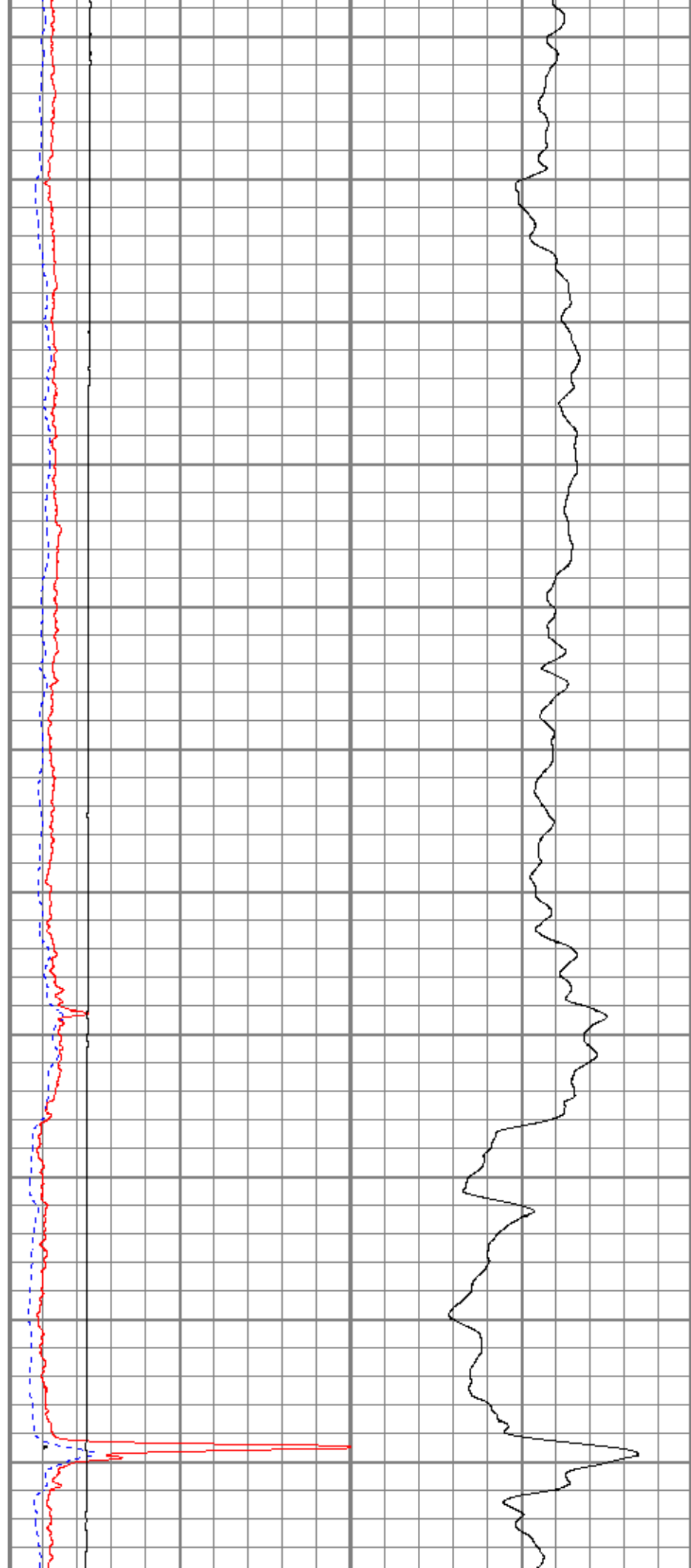
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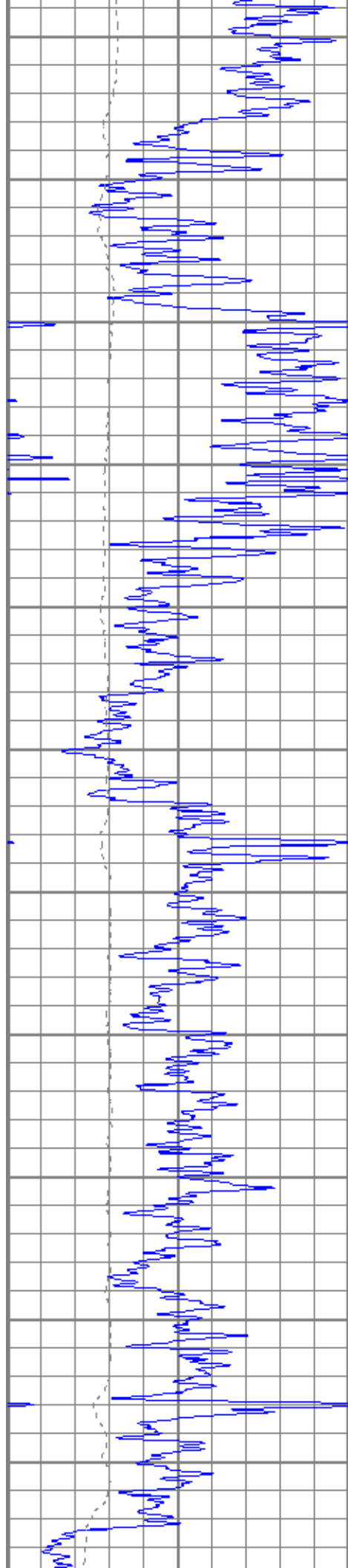
1000

1050

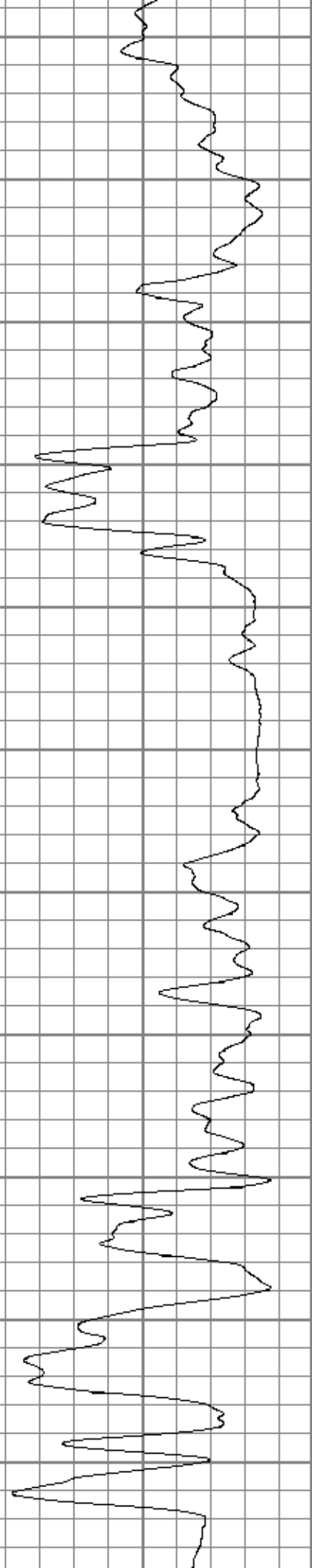
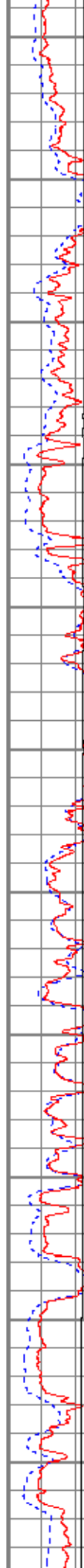
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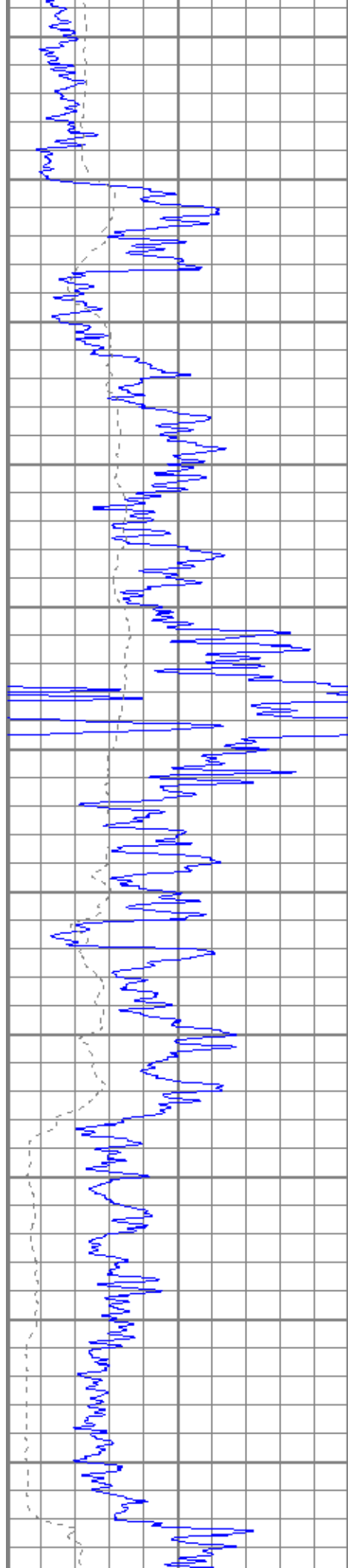
1150





1200
1250
1300
1350
1400
1450
1500
1550
1600
1650
1700





1750

1800

1850

1900

1950

2000

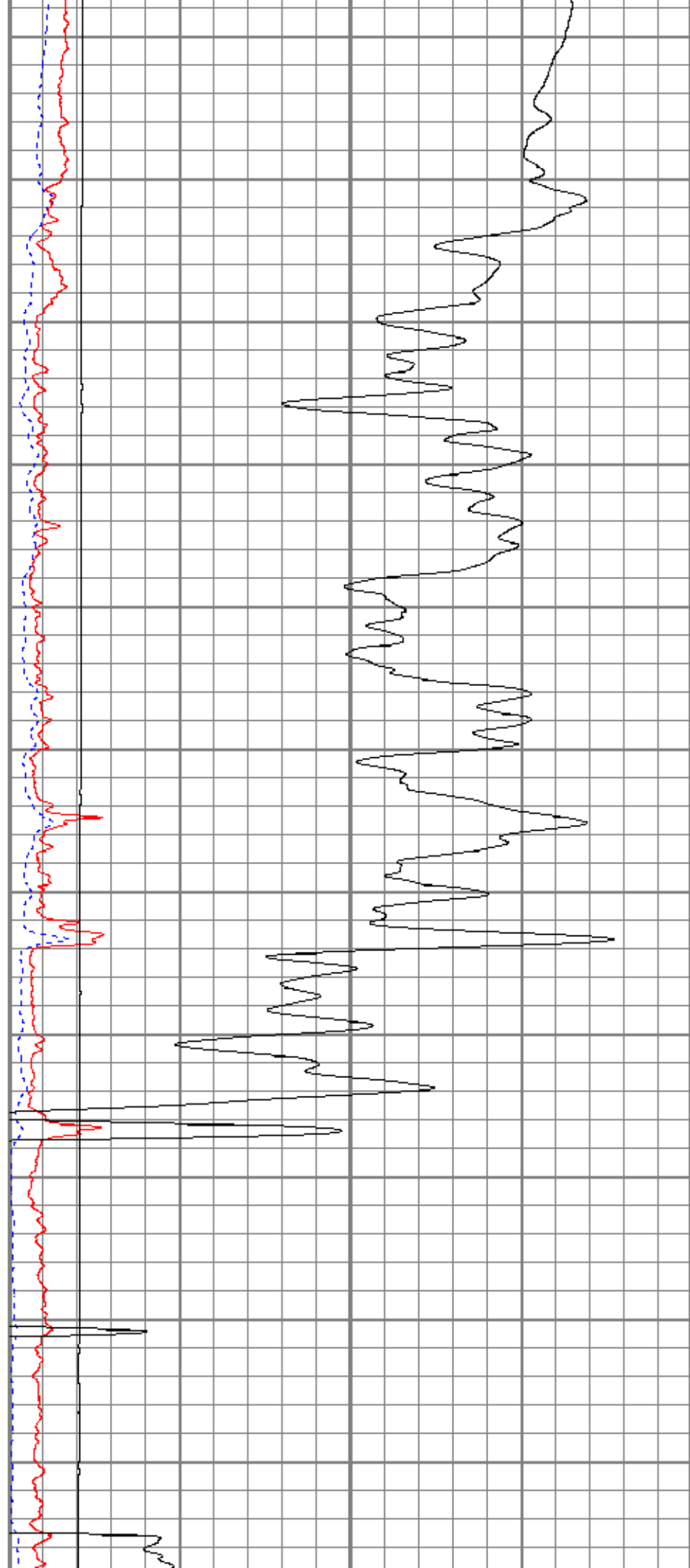
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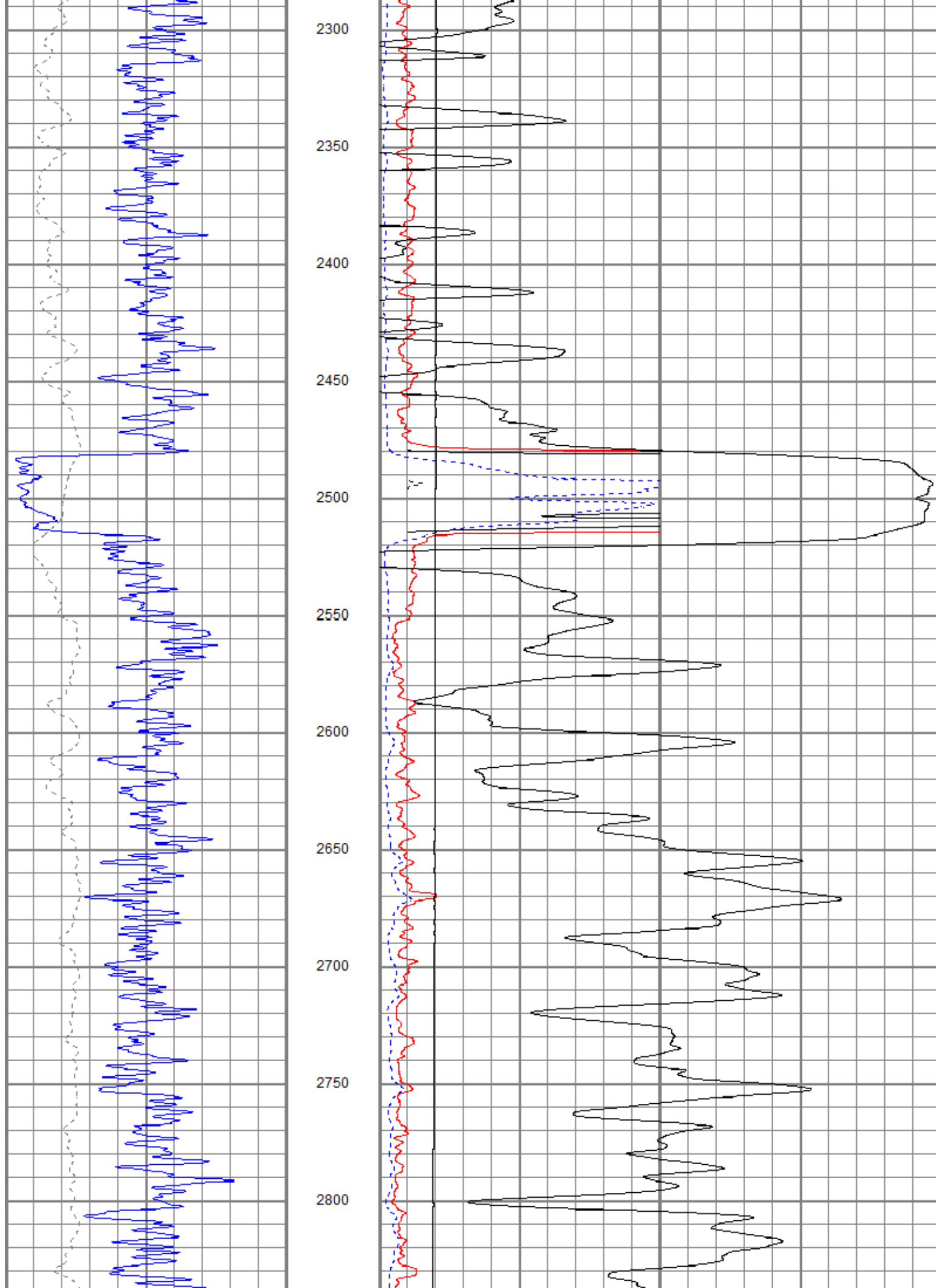
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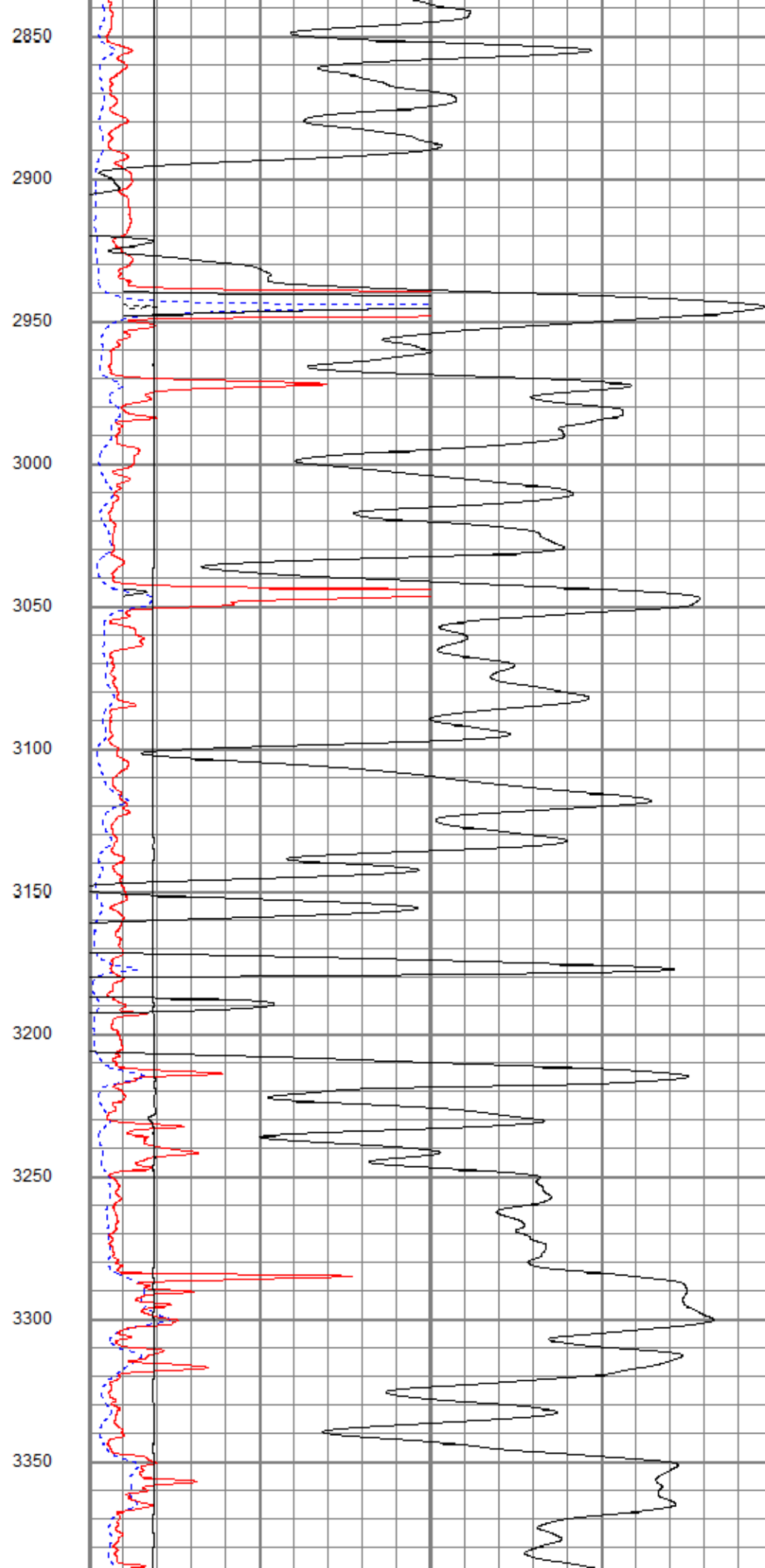
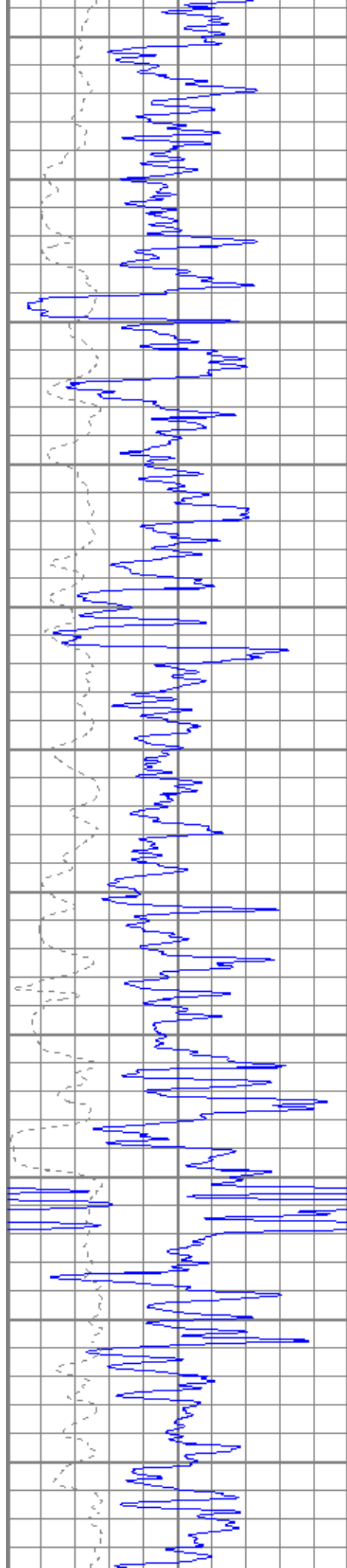
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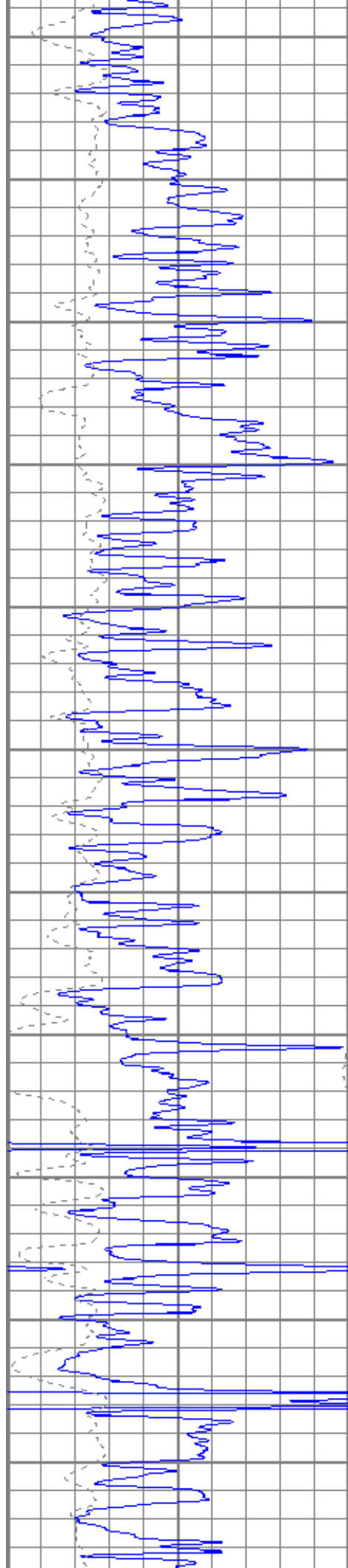
2200

2250









3400

3450

3500

3550

3600

3650

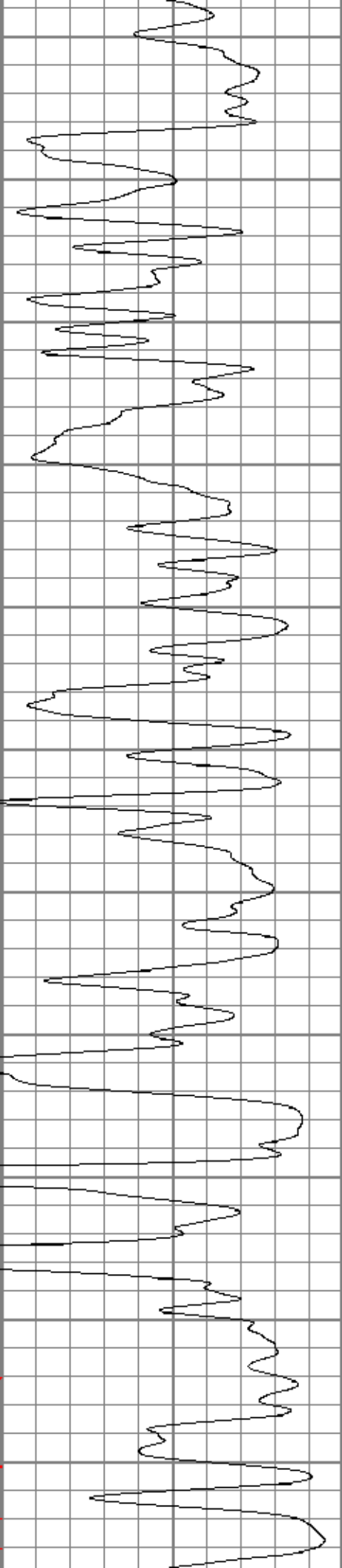
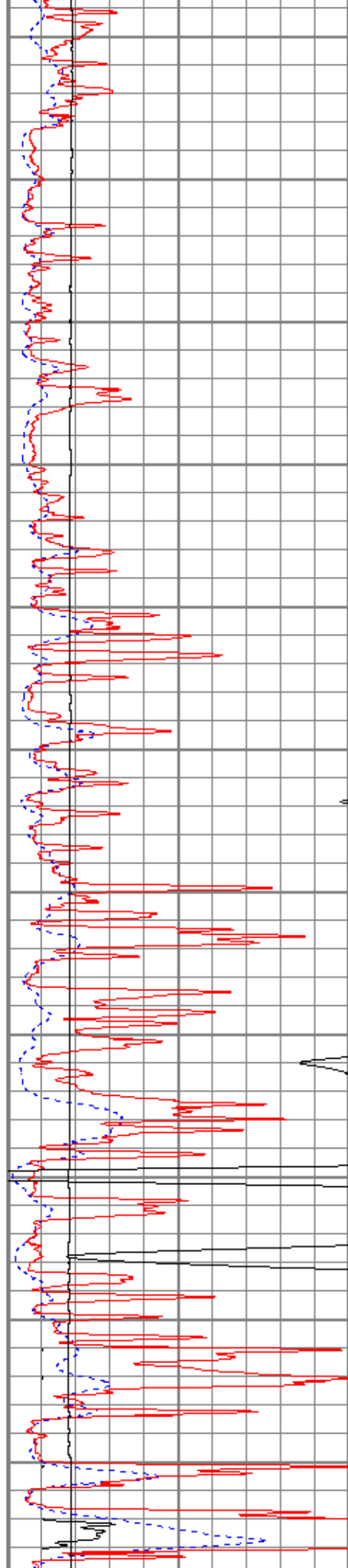
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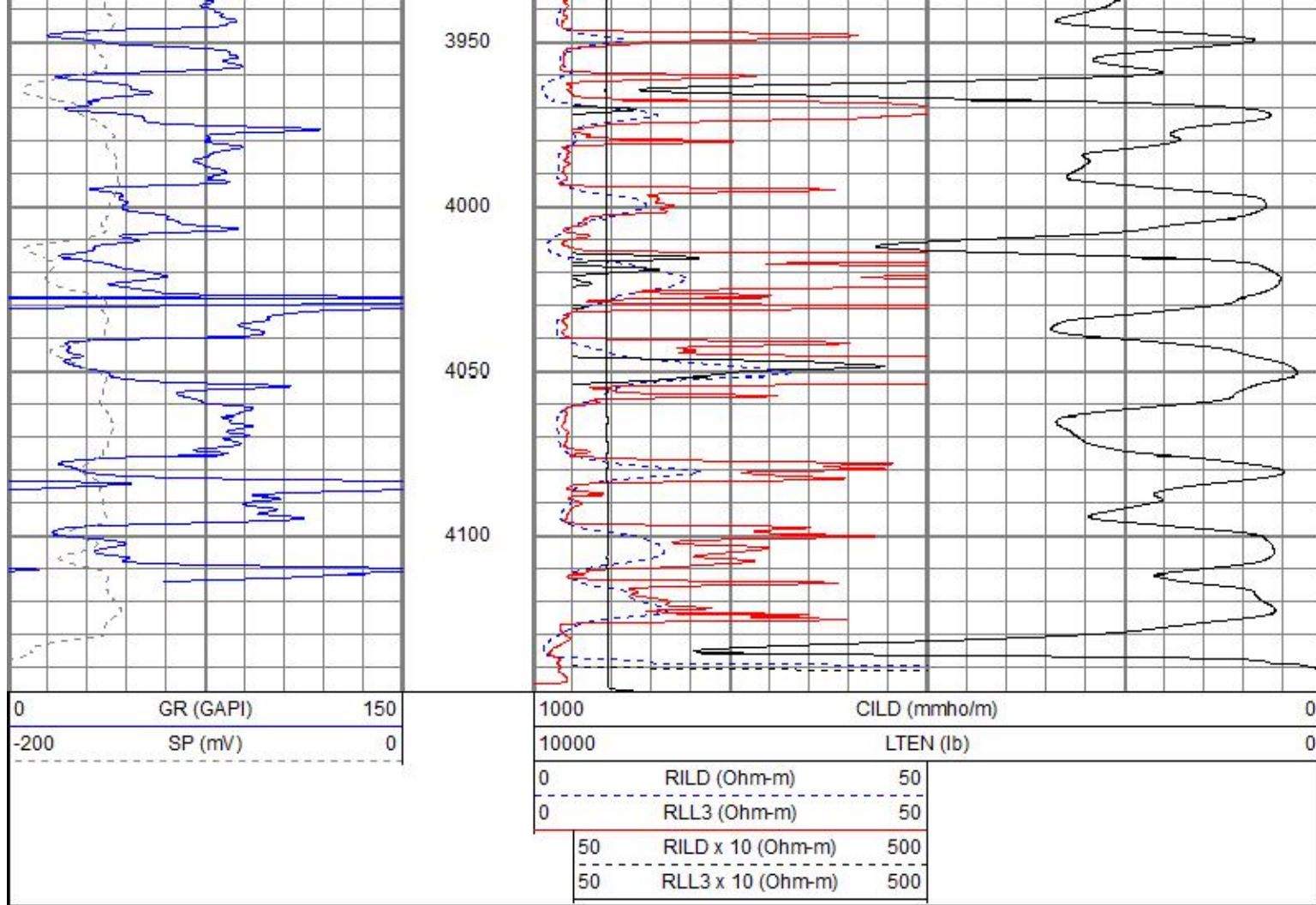
3750

3800

3850

3900

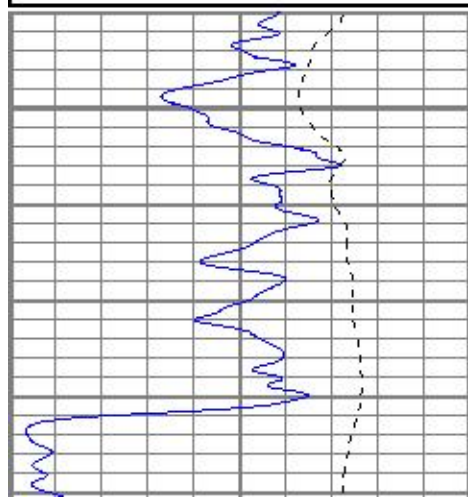




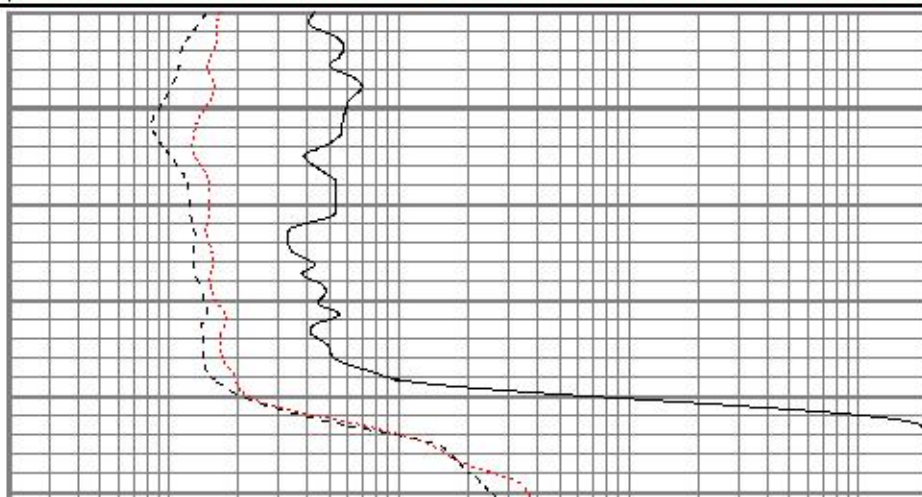
Main Pass

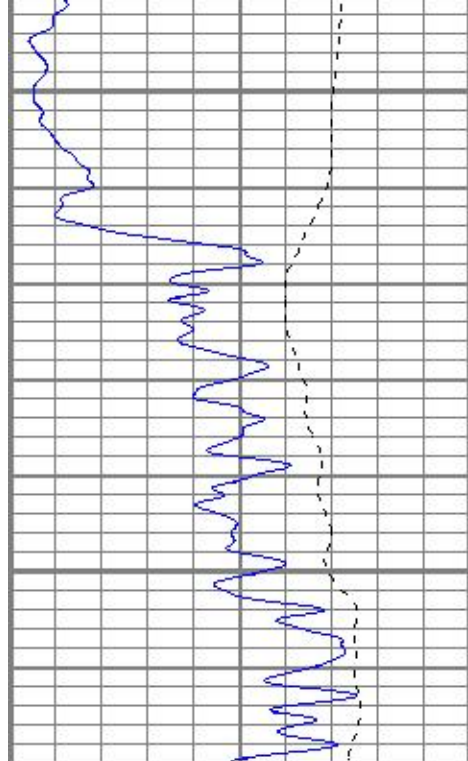
Database File: crcarter#1oh.db
 Dataset Pathname: pass2dil
 Presentation Format: kdil
 Dataset Creation: Tue Oct 18 10:56:54 2016
 Charted by: Depth in Feet scaled 1:240

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



2450





2500

2550

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

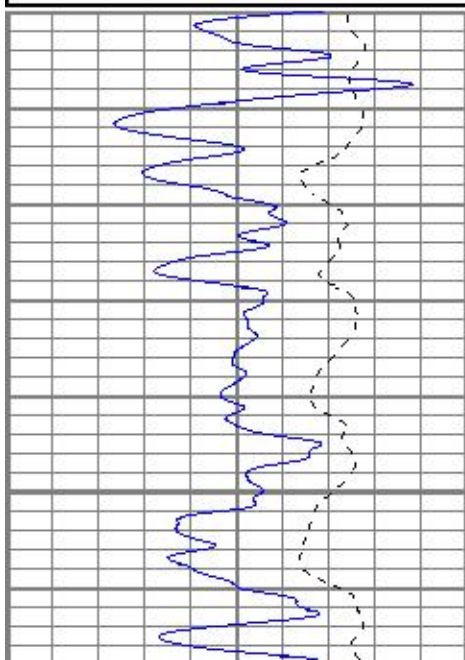


Main Pass

Database File: crcarter#1oh.db
 Dataset Pathname: pass6.1
 Presentation Format: kdil
 Dataset Creation: Fri Oct 21 08:20:52 2016
 Charted by: Depth in Feet scaled 1:240

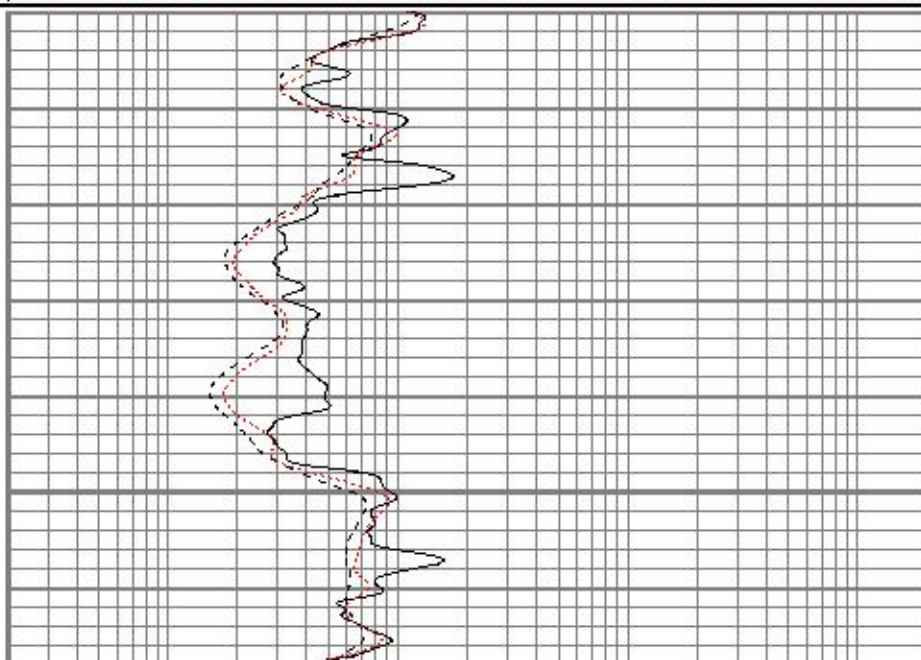
0	GR (GAPI)	150
-100	SP (mV)	100

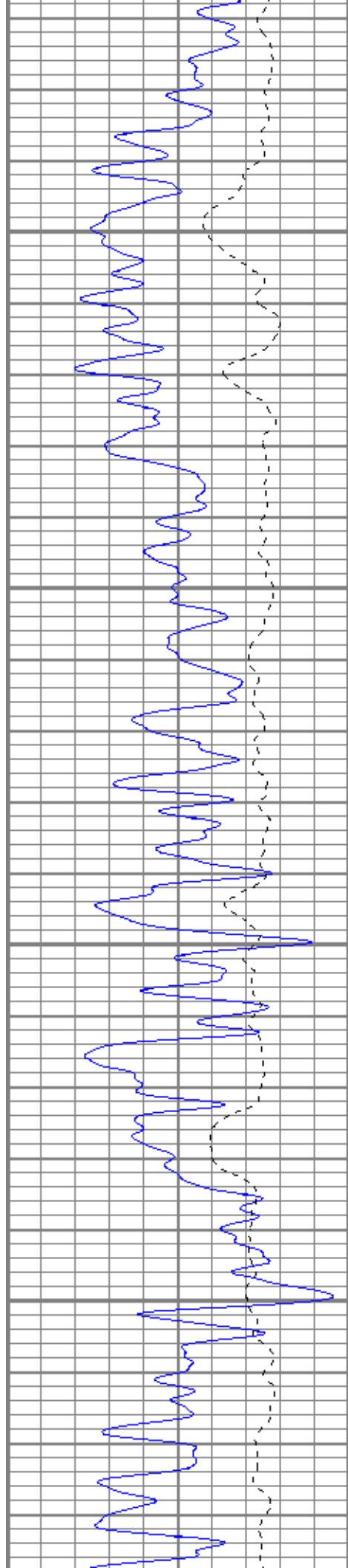
0.2	RILD (Ohm-m)	2000
0.2	RLL3 (Ohm-m)	2000
0.2	RILM (Ohm-m)	2000



3300

3350



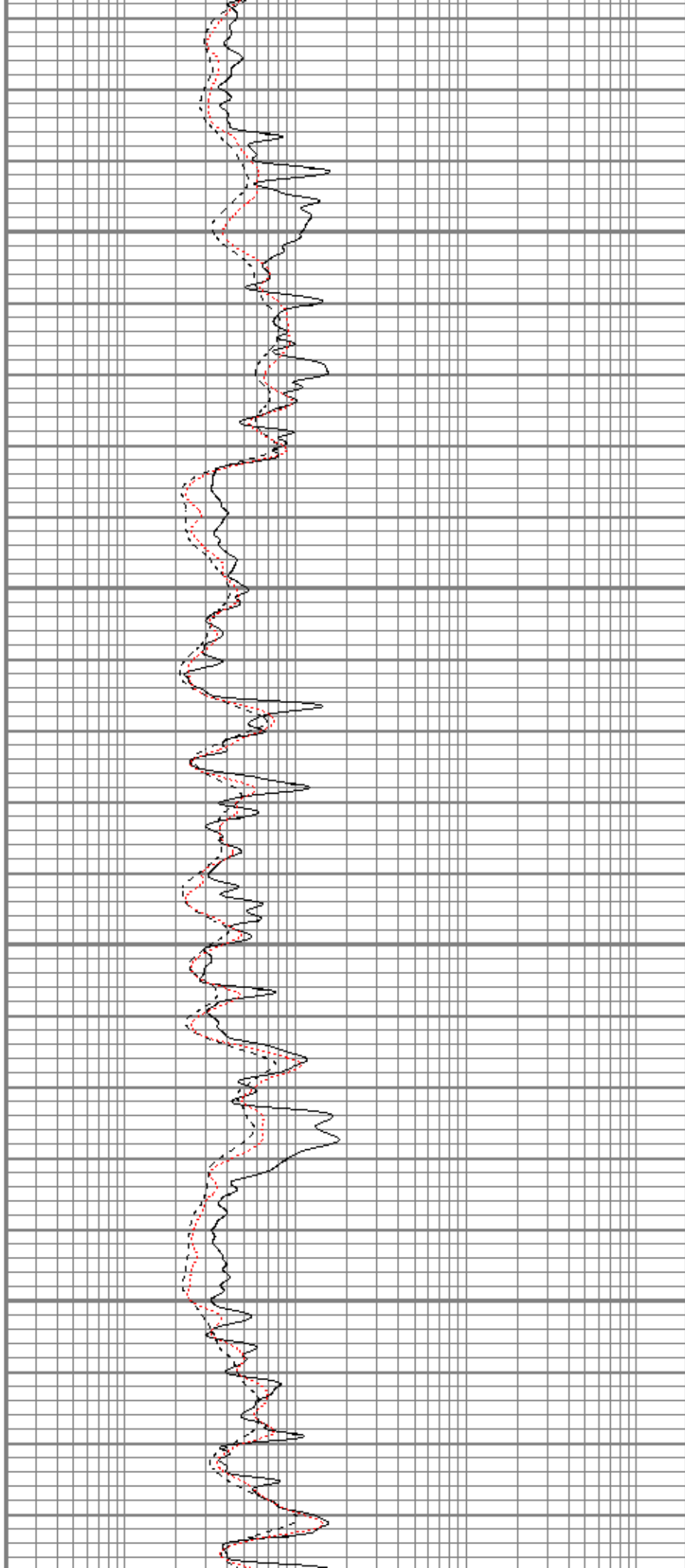


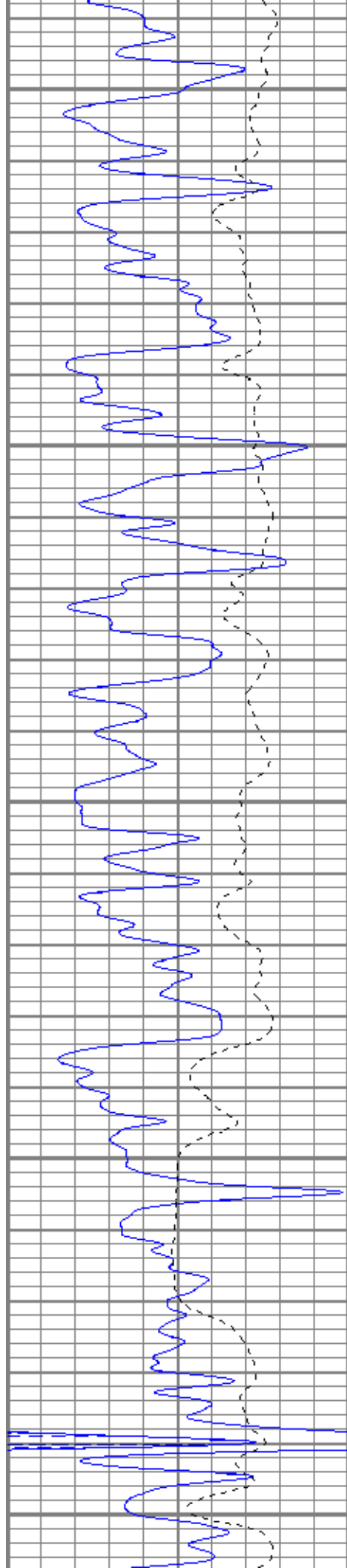
3400

3450

3500

3550





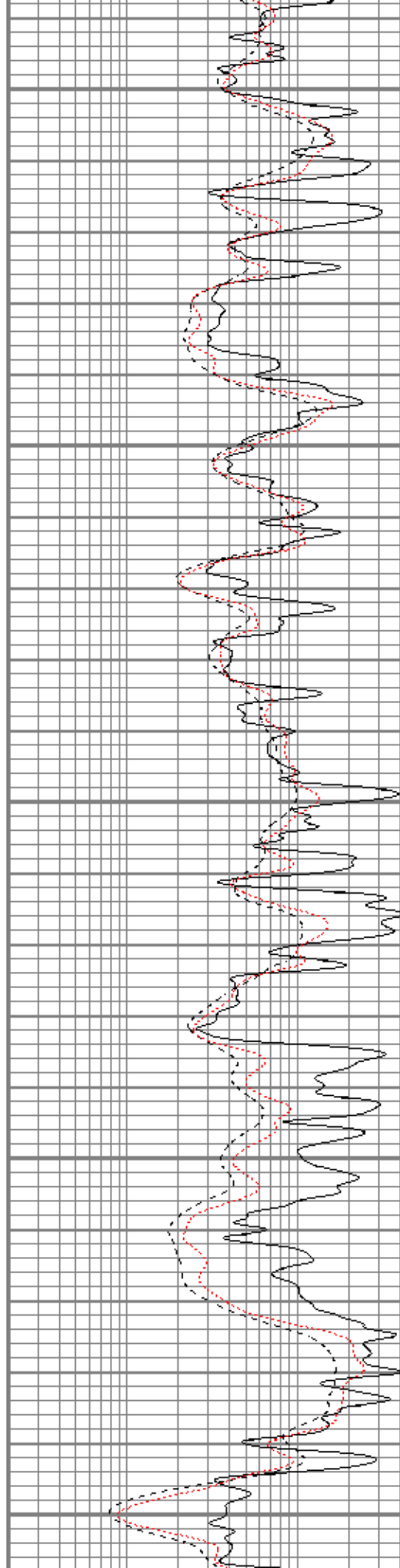
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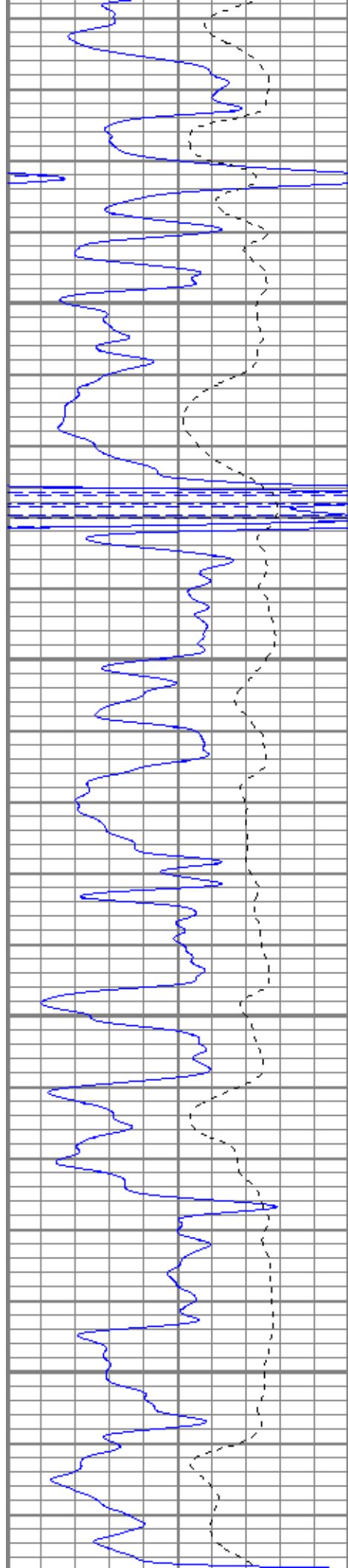
3650

3700

3750

3800



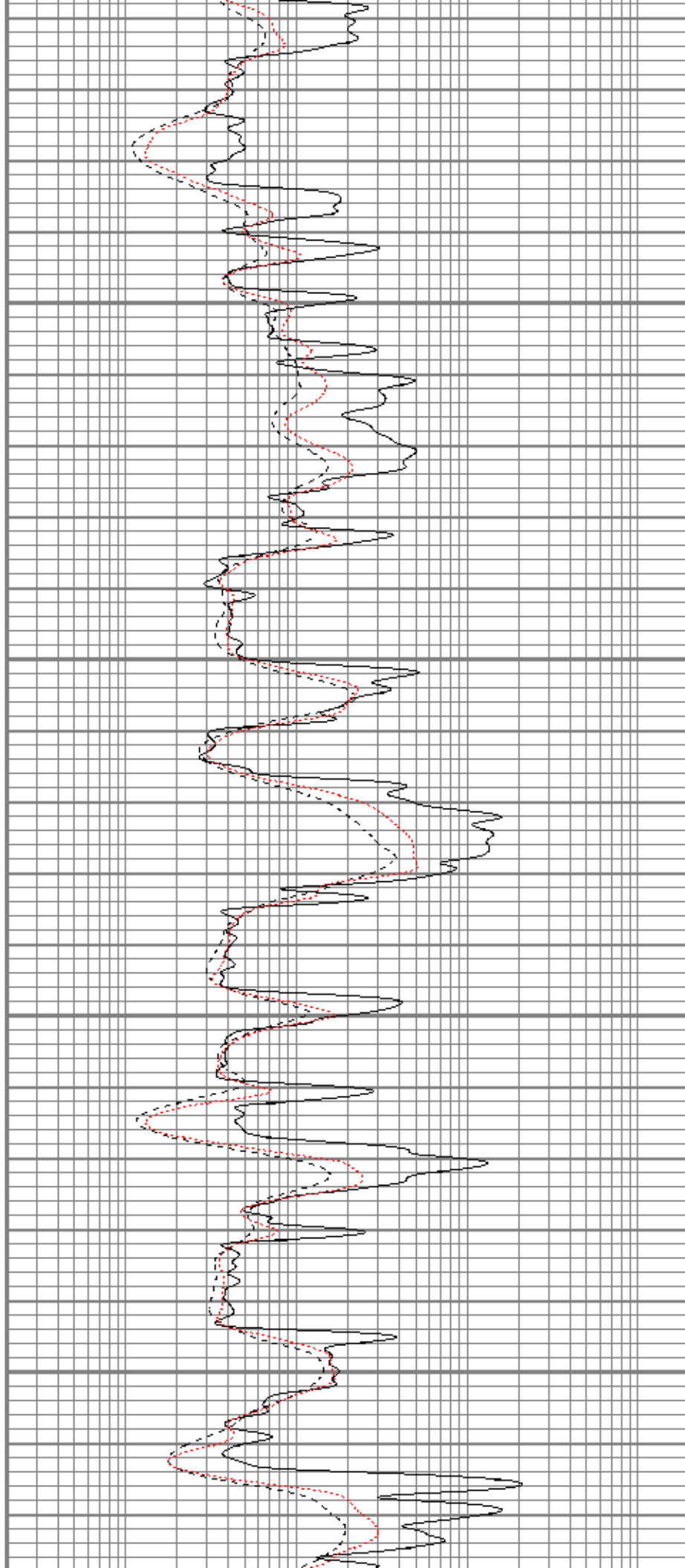


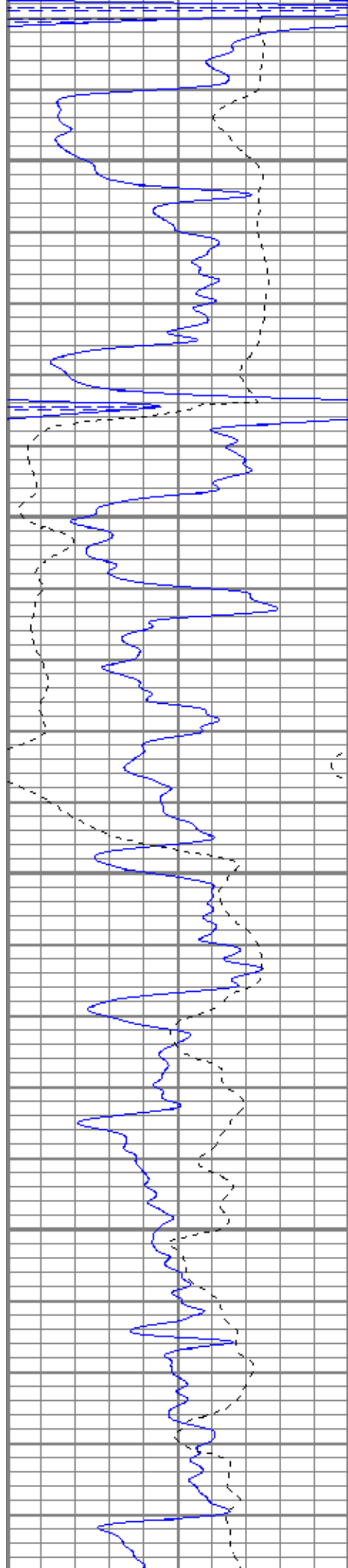
3850

3900

3950

4000





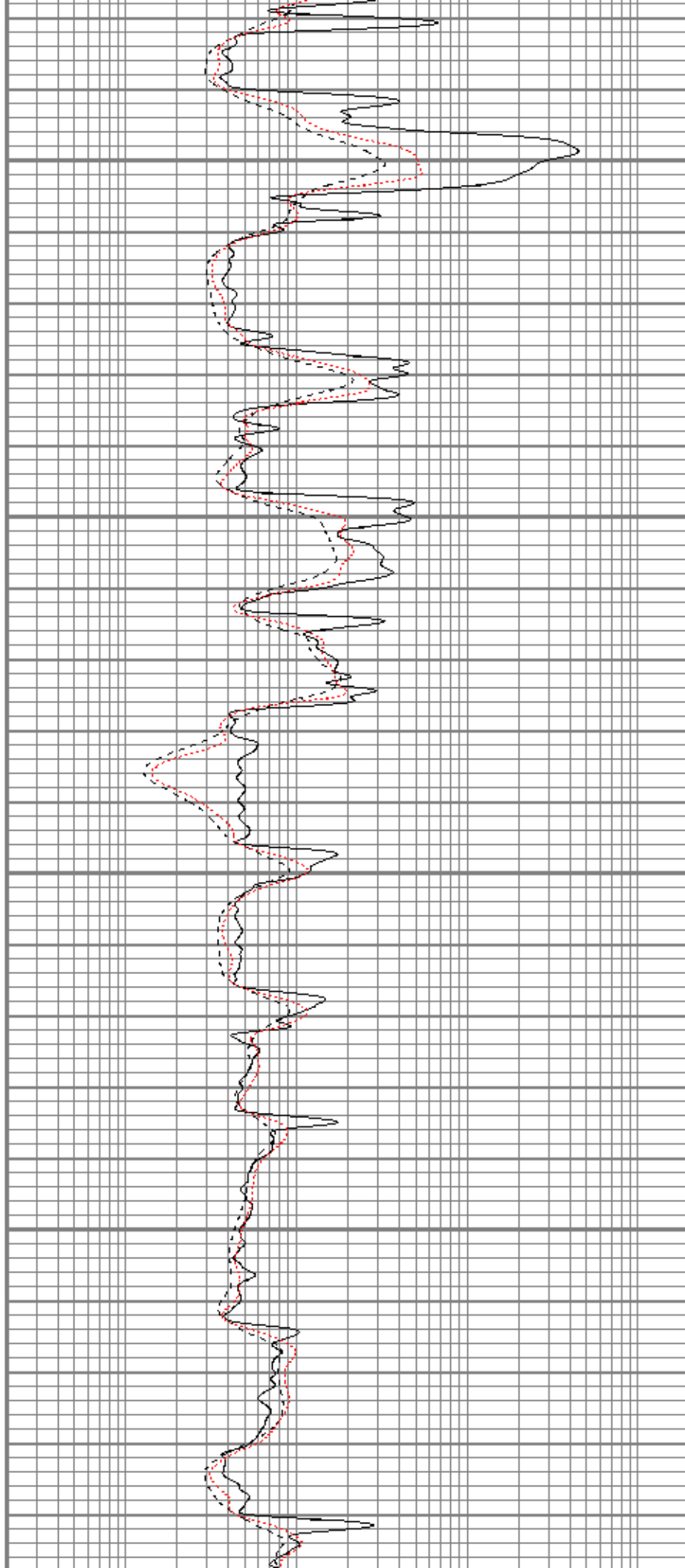
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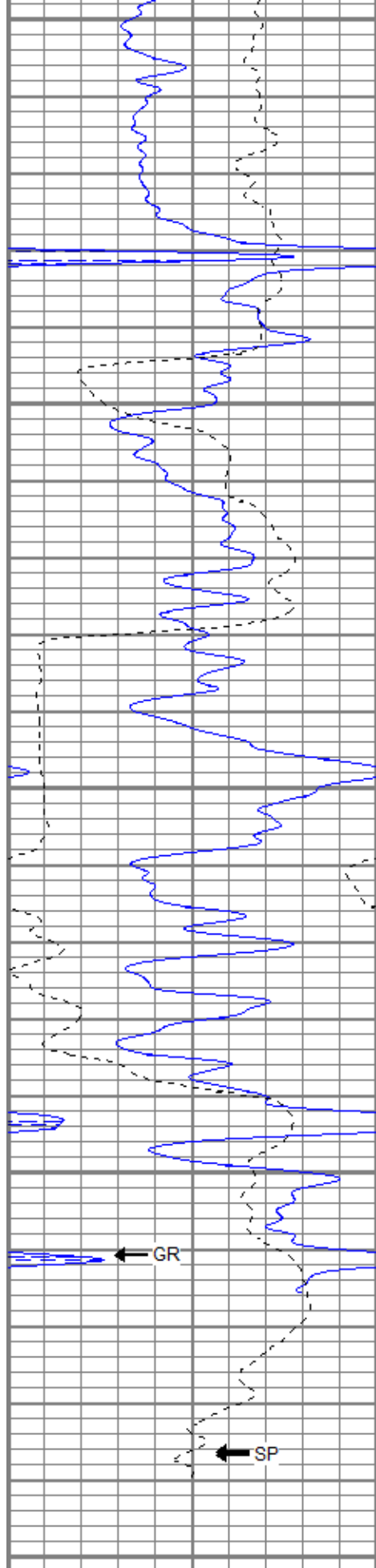
Merg Point

4100

4150

4200





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

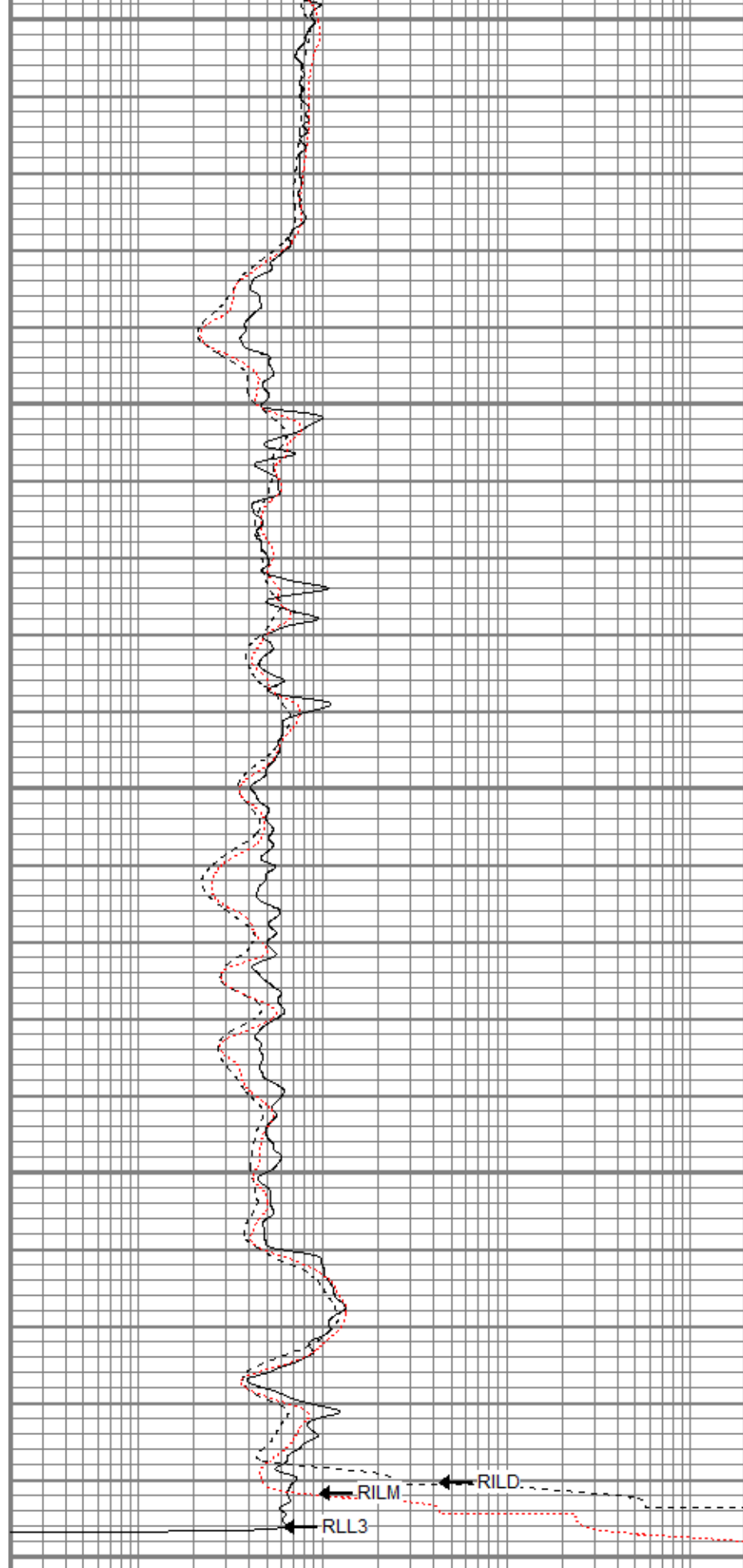
4250

4300

4350

4400

4450



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

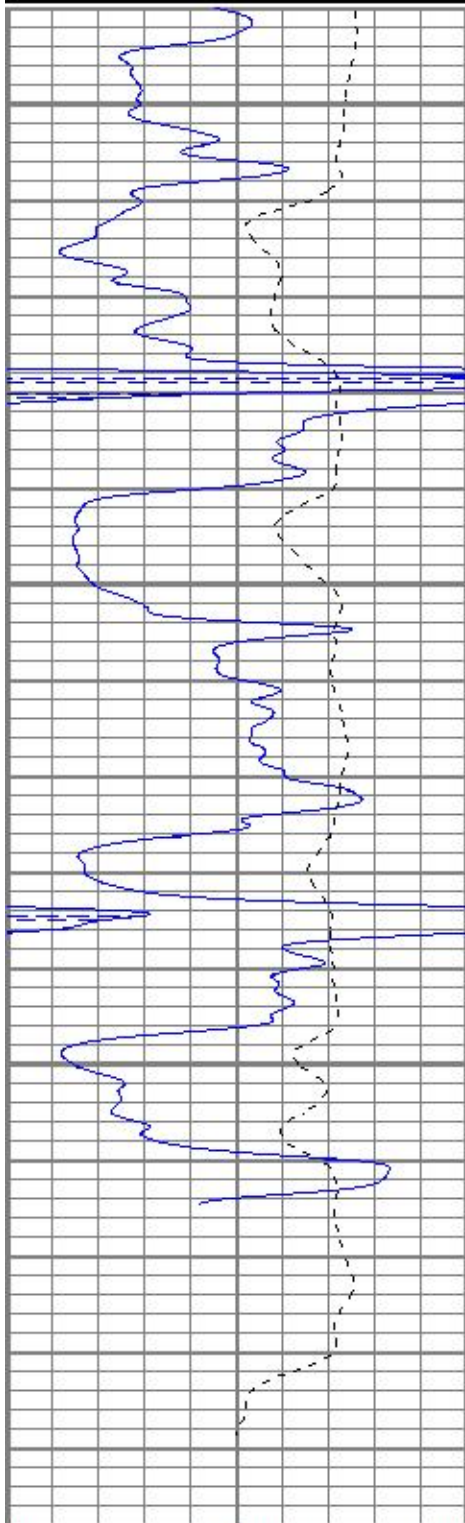


Repeat Pass

Database File crcarter#1oh.db
Dataset Pathname pass1.1
Presentation Format kdil
Dataset Creation Tue Oct 18 10:59:50 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

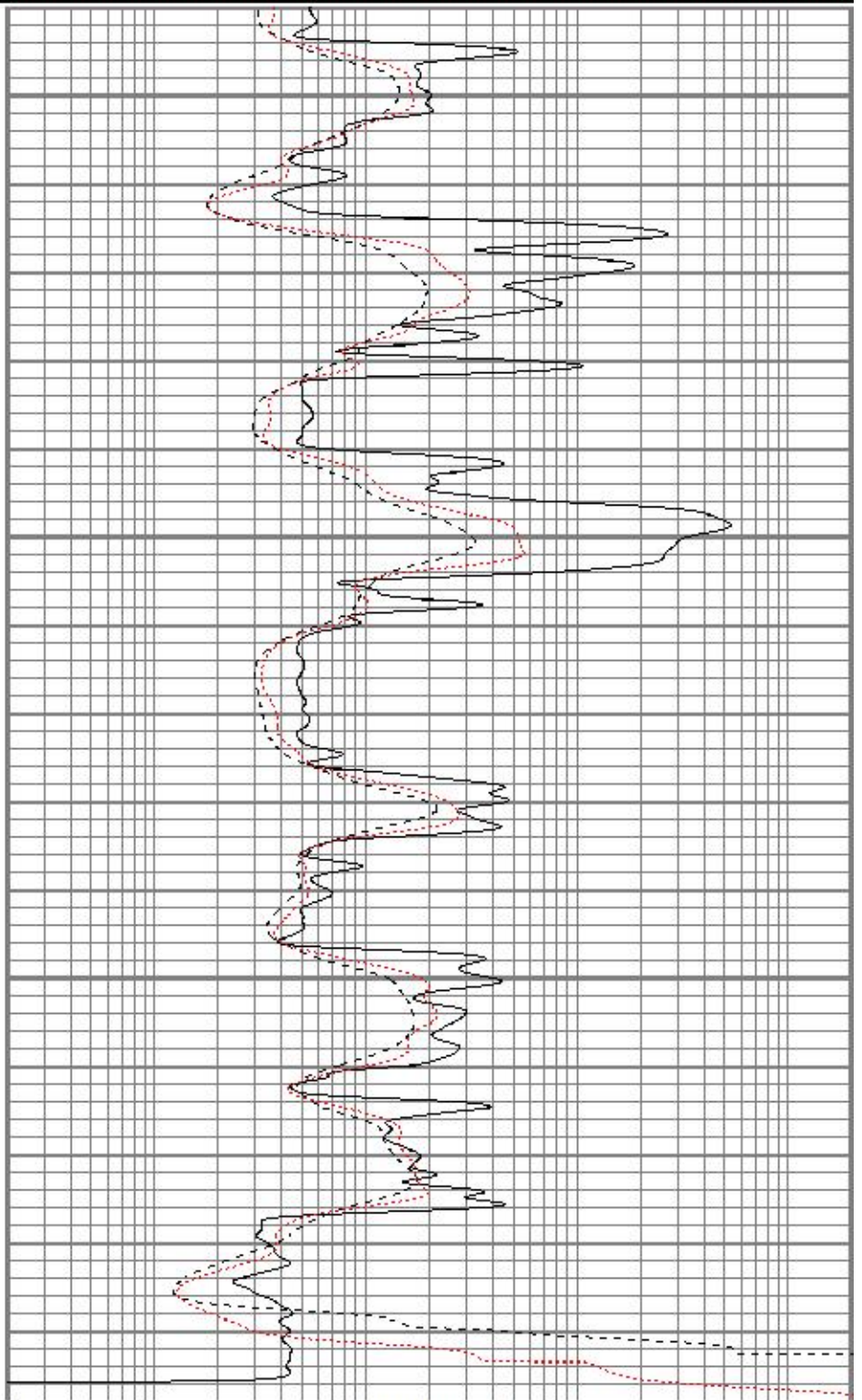


4000

4050

4100

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

Calibration Report	
Database File	crcarter#1oh.db
Dataset Pathname	pass1.1
Dataset Creation	Tue Oct 18 10:59:50 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	-15.046

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

Compensated Density Calibration Report
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Serial-Model:	2501DHT-DHT
Source / Verifier:	csv-j12 /
Master Calibration Performed:	Thu Jan 21 09:35:41 2016
Before Survey Verification Performed:	
After Survey Verification Performed:	

Master Calibration					
Density			Far Detector	Near Detector	
Magnesium	1.750	g/cc	711.36	284.22	cps
Aluminum	2.660	g/cc	133.07	180.42	cps
Spine Angle = 74.83			Density/Spine Ratio = 0.524		
Size			Reading		
Small Ring	8.15	in	5979.71		
Large Ring	14.00	in	9974.72		

Before Survey Verification			
	<u>Target</u>		<u>Measured</u>
		g/cc	g/cc
		g/cc	g/cc
		g/cc	g/cc
After Survey Verification			
	<u>Target</u>		<u>Measured</u>
		g/cc	g/cc
		g/cc	g/cc
		g/cc	g/cc
Gamma Ray Calibration Report			
Serial Number:	2000		
Tool Model:	P2000		
Performed:	Sun Dec 13 16:43:47 2015		
Calibrator Value:	1.0	GAPI	
Background Reading:	0.0	cps	
Calibrator Reading:	1.0	cps	
Sensitivity:	0.2200	GAPI/cps	
Neutron Calibration Report			
Serial Number:	5108		
Tool Model:	PROBE		
Performed:	Thu Jan 21 09:36:17 2016		
Calibrator Value:	1	NAPI	
Calibrator Reading:	1	cps	
Sensitivity:	1	NAPI/cps	

Sensor	Offset (ft)	Schematic	Description	Length (ft)	O.D. (in)	Weight (lb)	
NEU	36.60		CHD-None	0.75	1.50	5.00	
			NEU-PROBE (5108) Probe	4.92	3.63	85.00	
GR	30.81		GR-P2000 (2000)	3.67	3.25	40.00	
			CDL-DHT (2501DHT) Digital High Temp CDL Tool	9.69	4.00	201.00	
LSD	22.02						
DCAL	21.73						
SSD	21.48						
HEADVOLT	19.71						

SP	10.60		19.71	4.00	300.00
CILD	10.60				
CILM	6.89				
RLL3	1.70				
Dataset: crcarter#1oh.db: field/well/run1/pass1.1 Total length: 38.73 ft Total weight: 631.00 lb O.D.: 4.00 in					