



**DUAL
INDUCTION
LOG**

Company Palomino Petroleum
 Well Whipple #1
 Field Manteno Southwest
 County Ness
 State Kansas

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 Well Whipple #1
 Field Manteno Southwest
 County Ness State Kansas

Location: API #: 15 135 25529
 2543' FSL & 1393' FEL
 SEC 1 TWP 20S RGE 26W
 Permanent Datum Ground Level Elevation 2554'
 Log Measured From KB 10' AGL
 Drilling Measured From KB
 Other Services
 DIL
 CDNL
 Elevation
 K.B. 2564'
 D.F. 2563'
 G.L. 2554'

Date	2-3-13
Run Number	One
Depth Driller	4650'
Depth Logger	4651'
Bottom Logged Interval	4649'
Top Log Interval	200'
Casing Driller	8 5/8" @ 222'
Casing Logger	222'
Bit Size	7 7/8"
Type Fluid in Hole	Chemical
Density / Viscosity	9.4/45
pH / Fluid Loss	10.0/8.8
Source of Sample	Pit
Rm @ Meas. Temp	2@65degf
Rmf @ Meas. Temp	1.5@65degf
Rmc @ Meas. Temp	2.4@65degf
Source of Rmf / Rmc	Calculated
Rm @ BHT	1.14@114degf
Time Circulation Stopped	11:45 p.m.
Time Logger on Bottom	2:00 a.m.
Maximum Recorded Temperature	114degf
Equipment Number	T045
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



Main Pass

Database File: ppwhipple#1oh.db
 Dataset Pathname: pass2
 Presentation Format: kdrillin2
 Dataset Creation: Sun Feb 03 02:26:34 2013 by Log Open-Cased 100827
 Charted by: Depth in Feet scaled 1:600

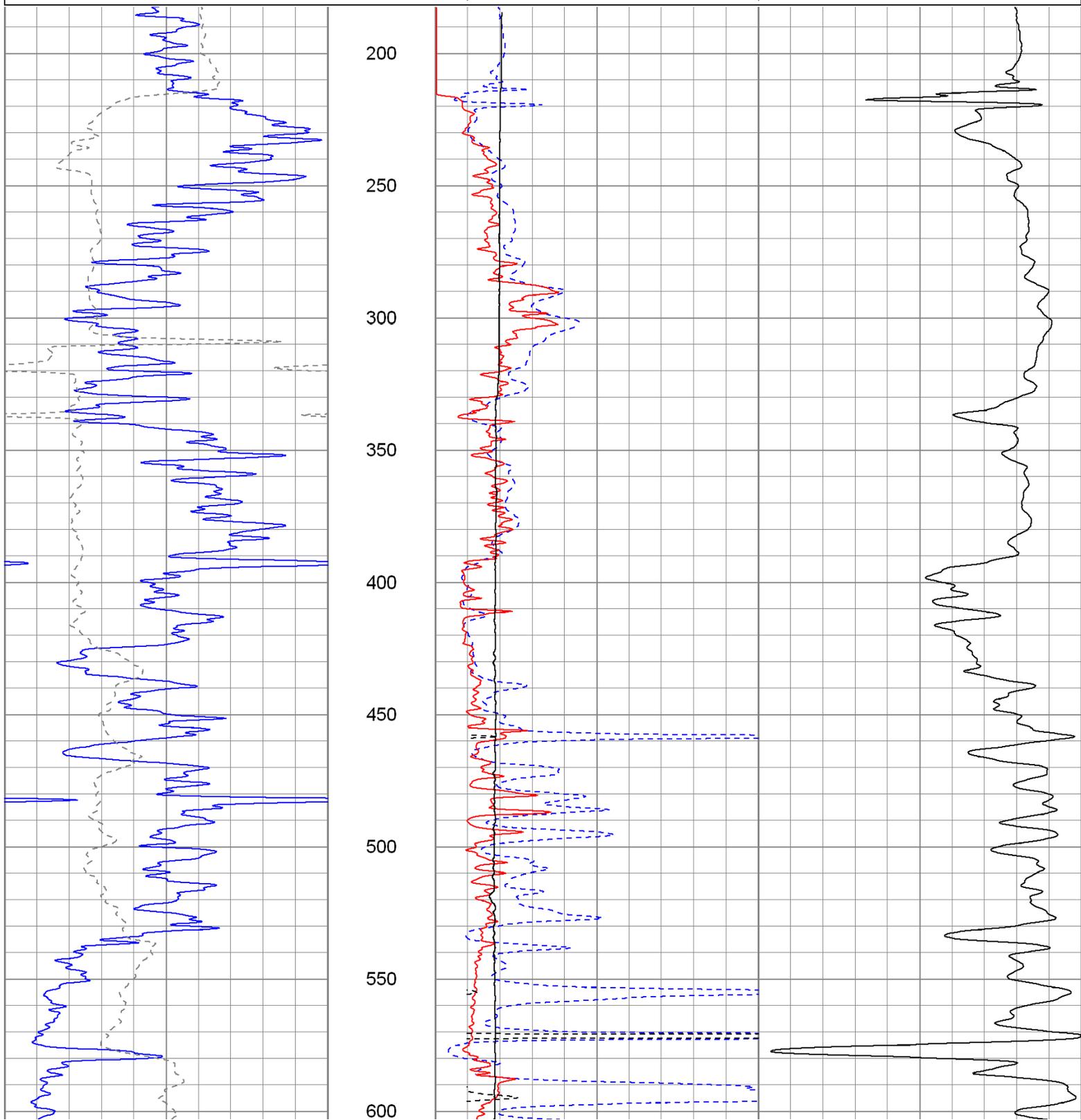
0	GR (GAPI)	150
-200	SP (mV)	0

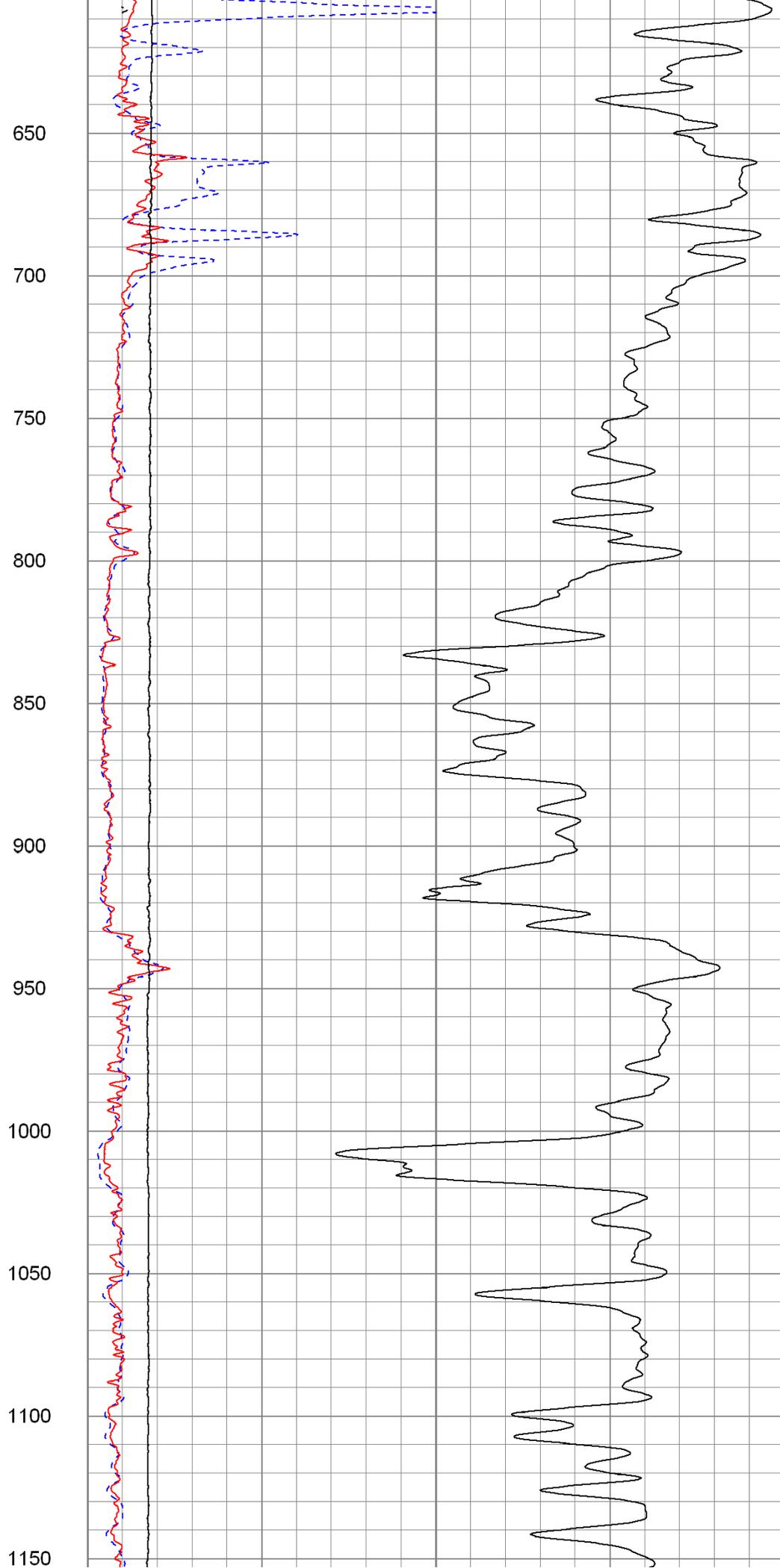
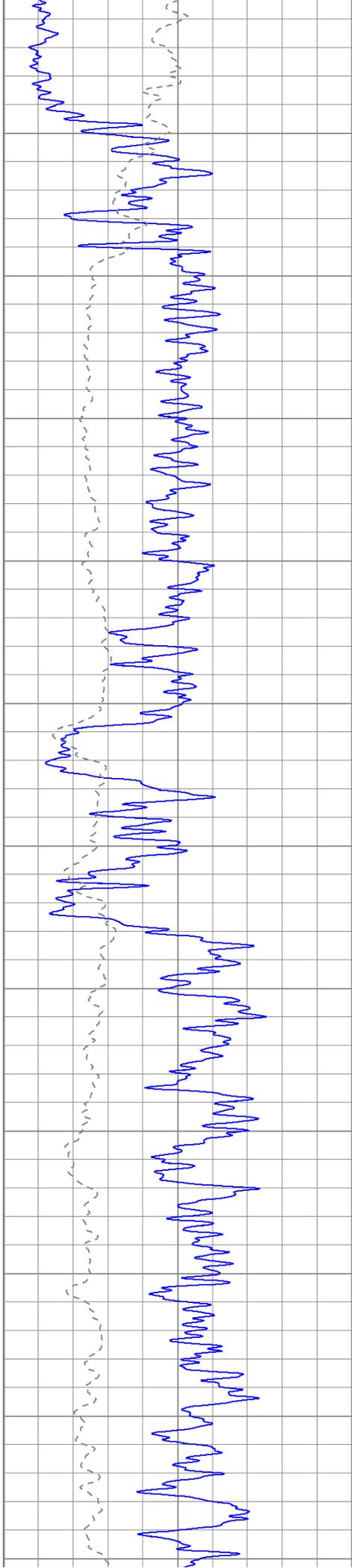
0	RILD (Ohm-m)	50
0	RLL3 (Ohm-m)	50

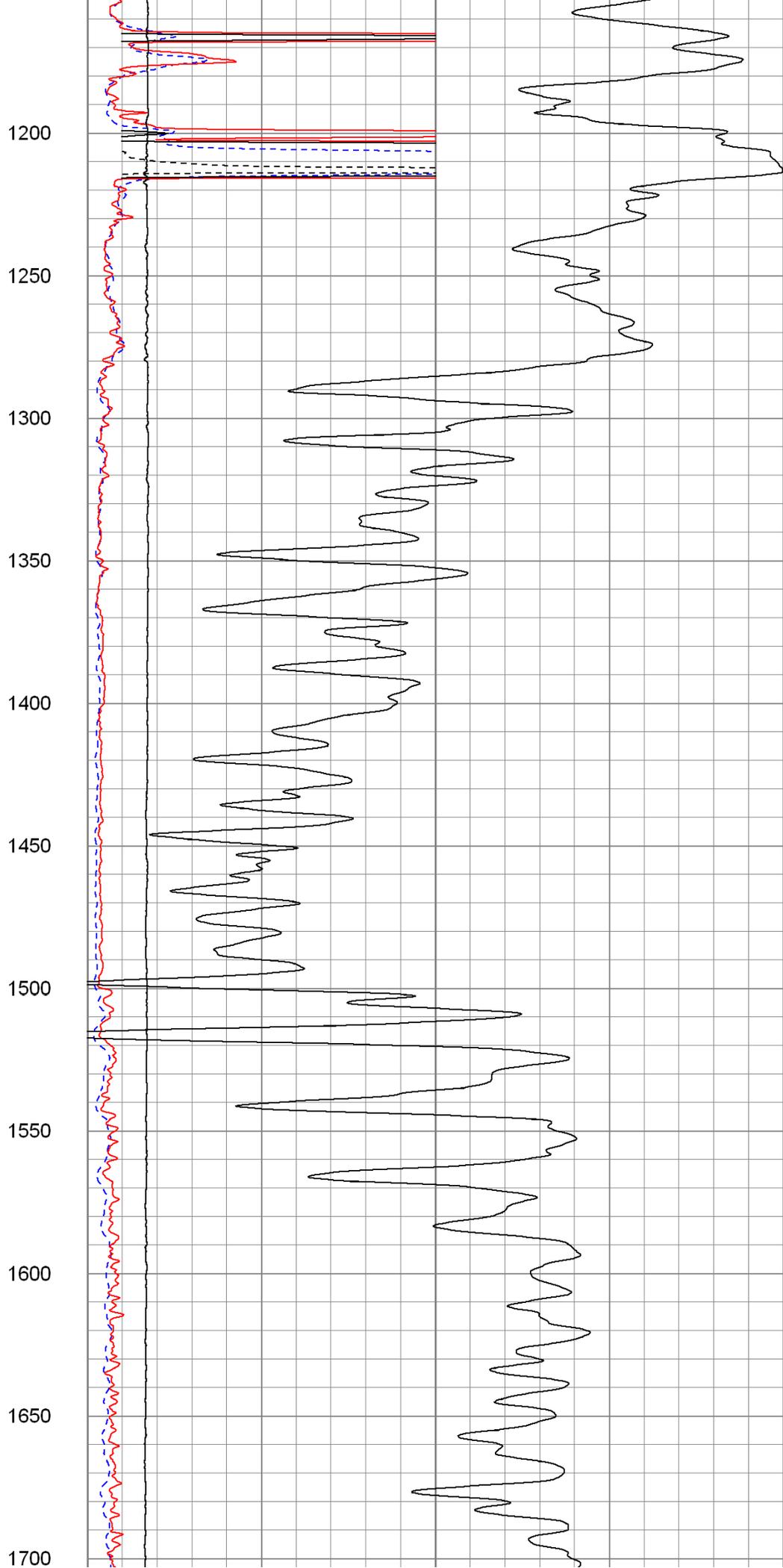
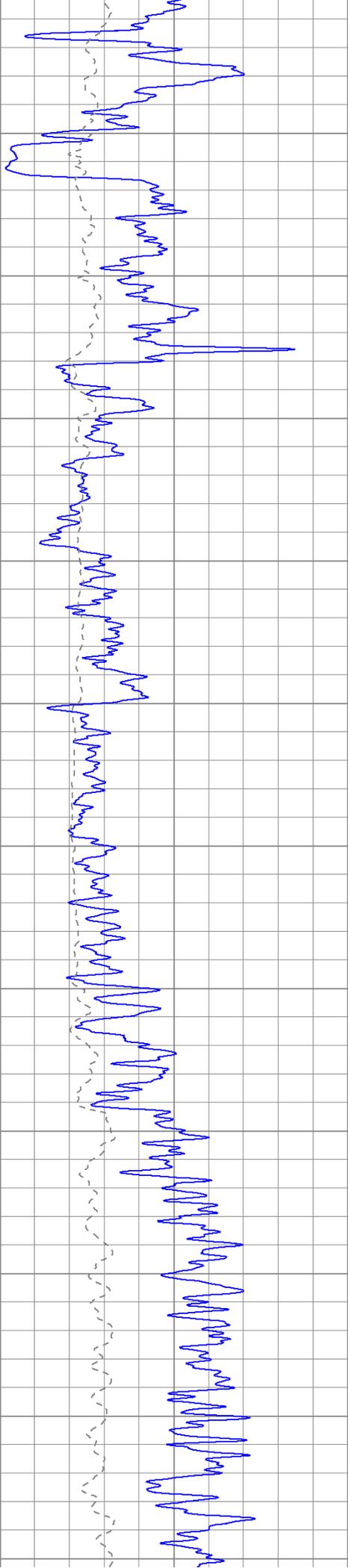
1000	CILD (mmho/m)	0
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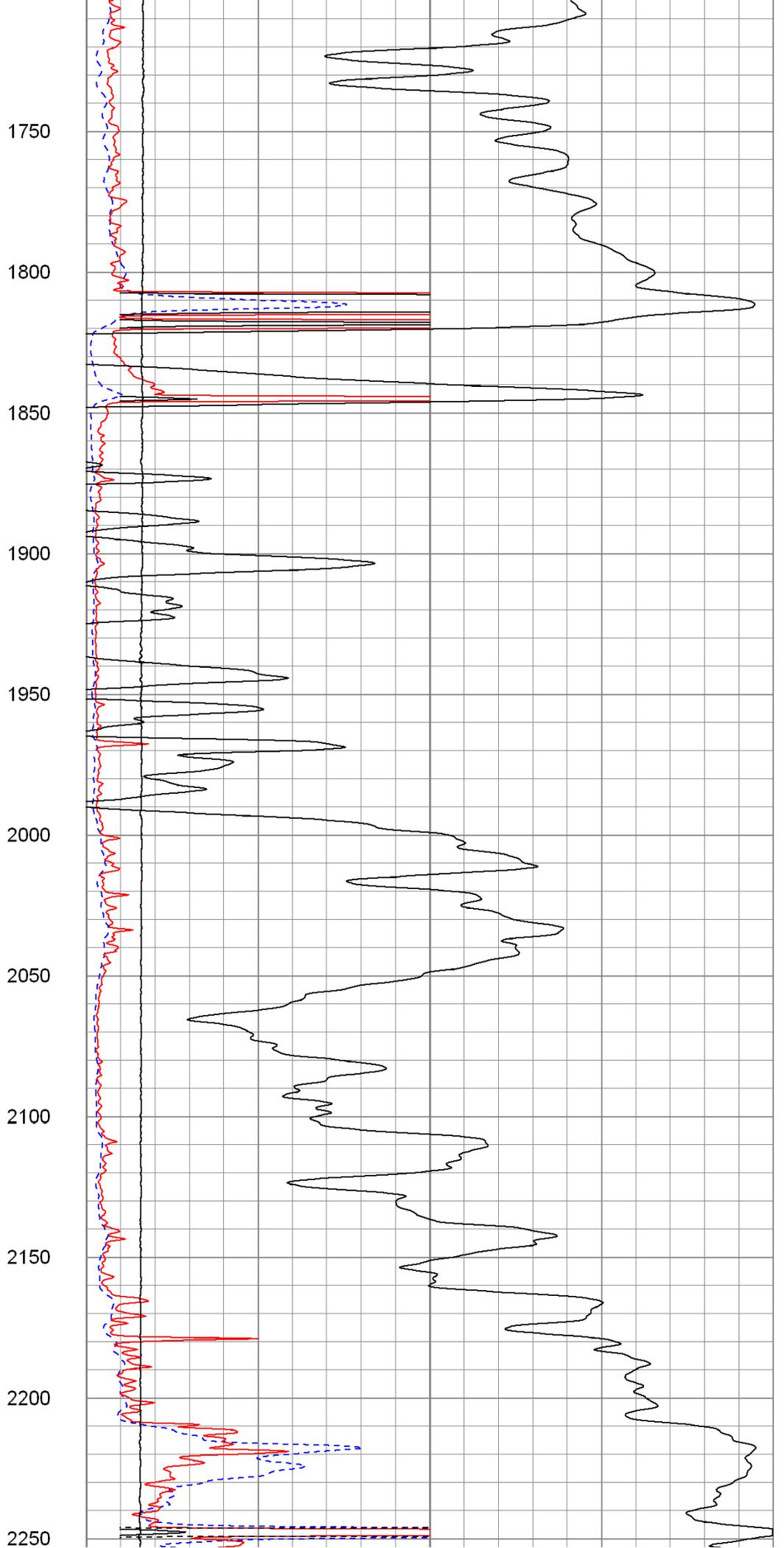
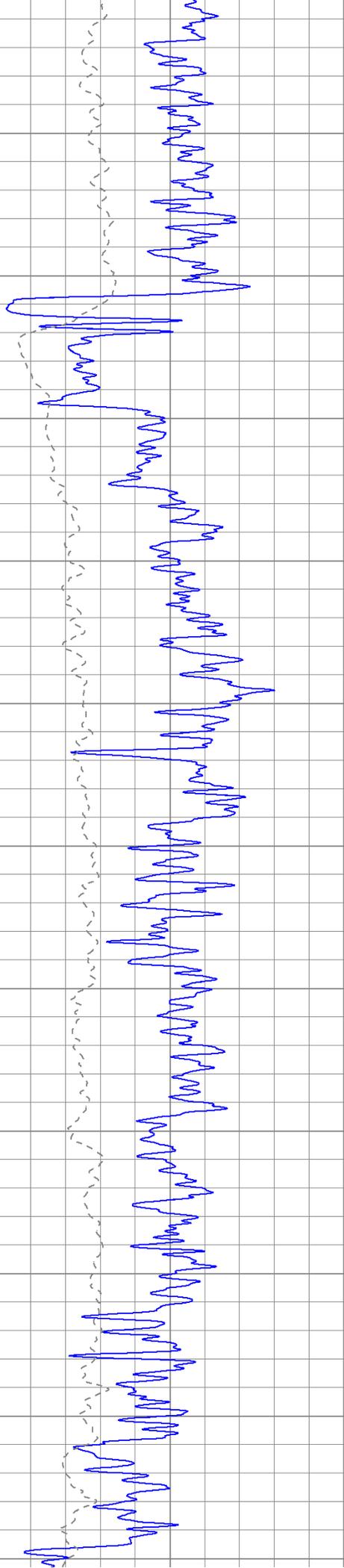
10000	LTEN (lb)	0
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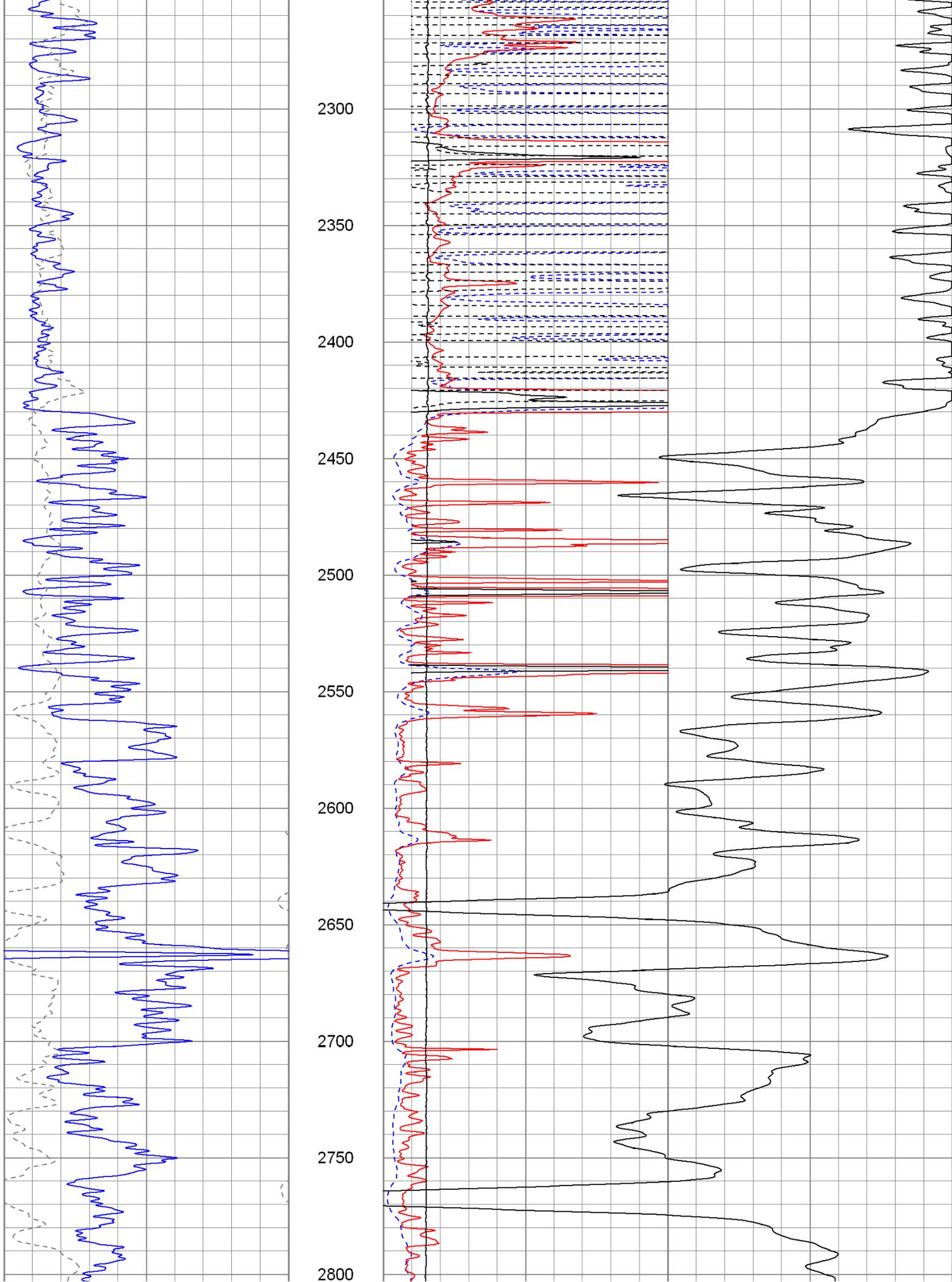
50	RILD x 10 (Ohm-m)	500
50	RLL3 x 10 (Ohm-m)	500

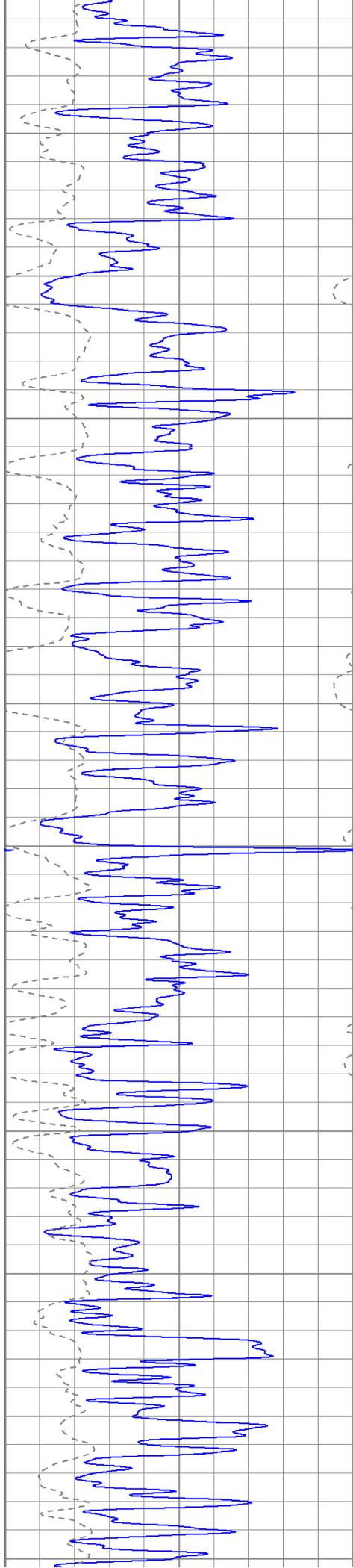












2850

2900

2950

3000

3050

3100

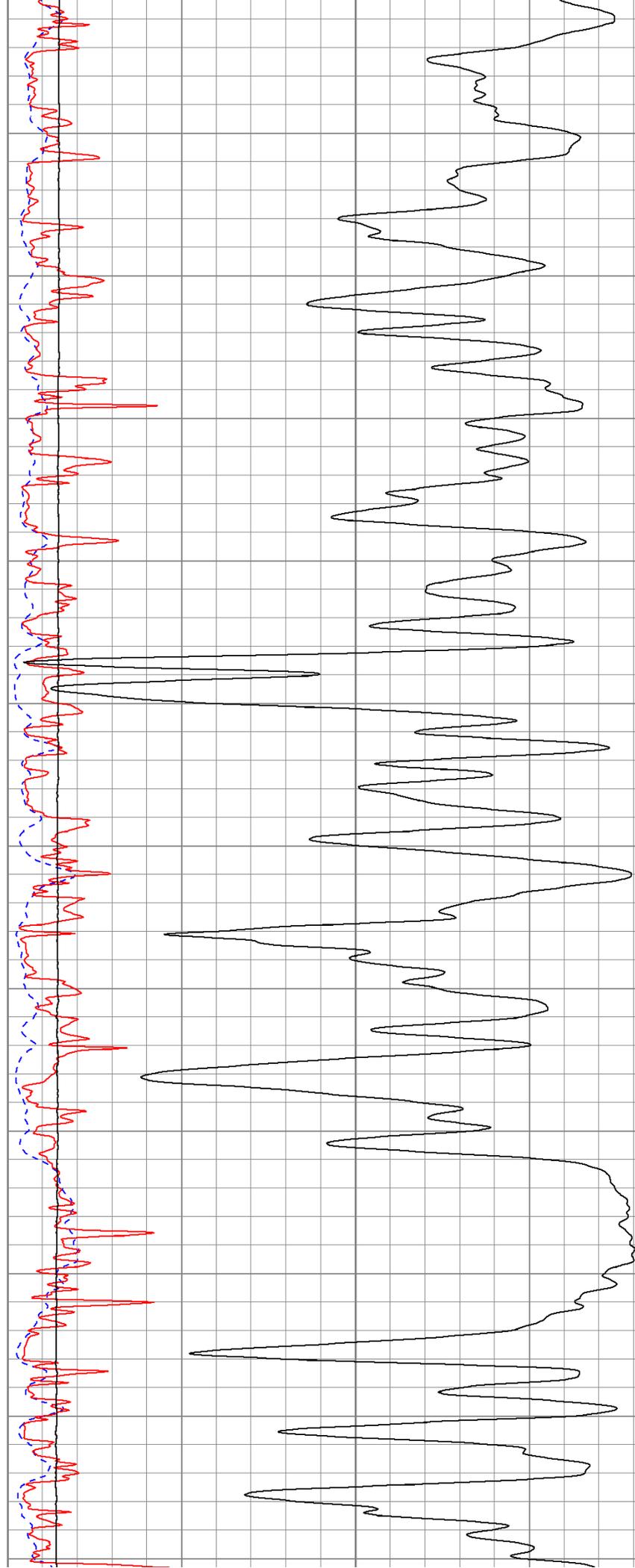
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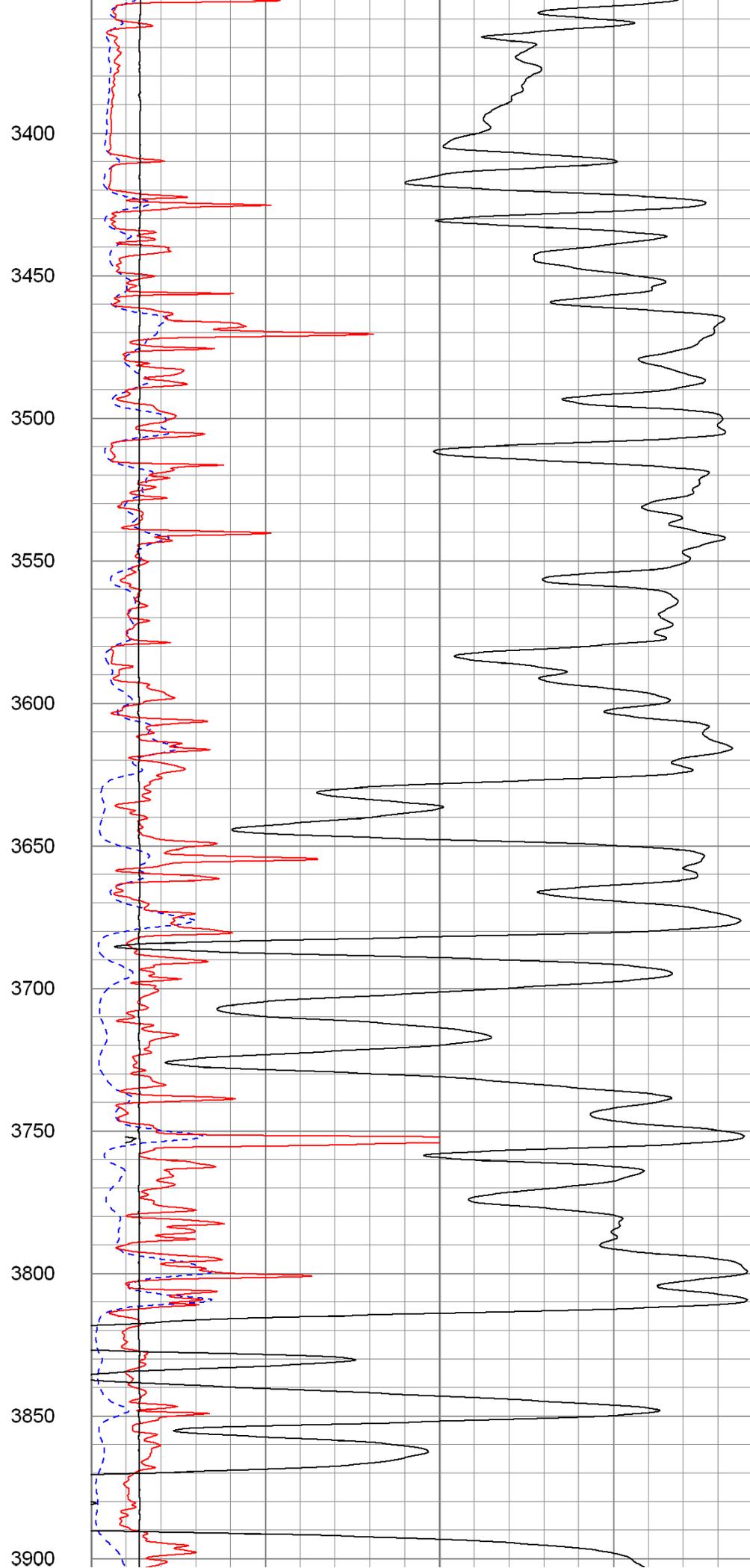
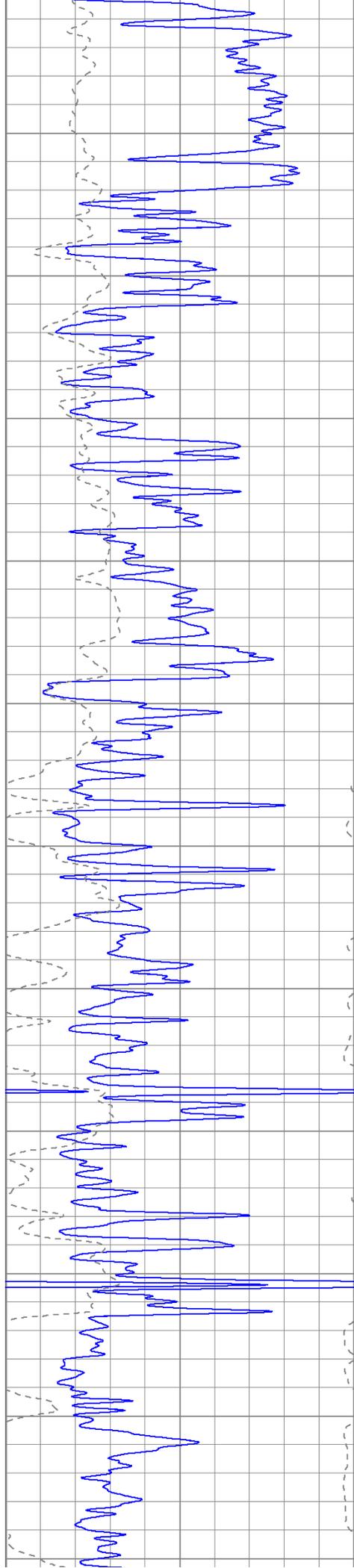
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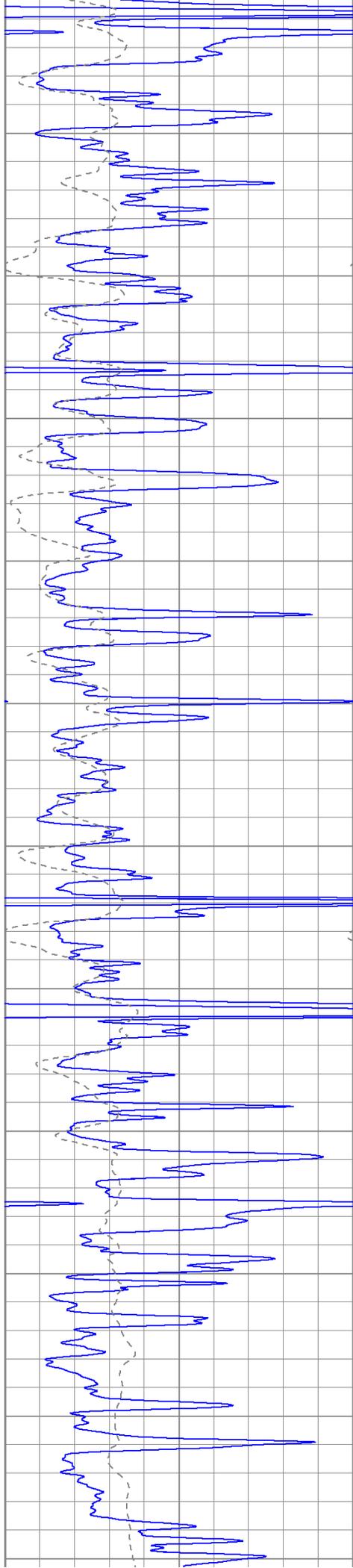
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3300

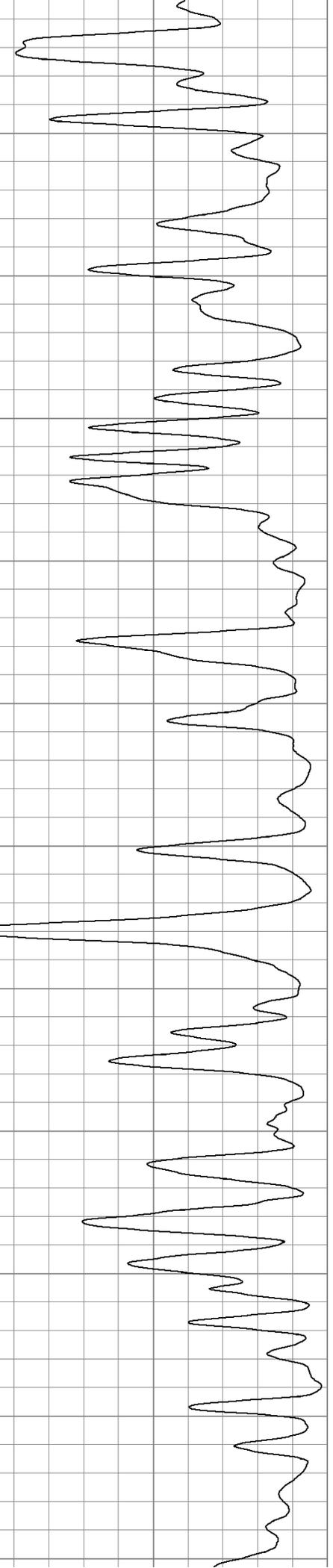
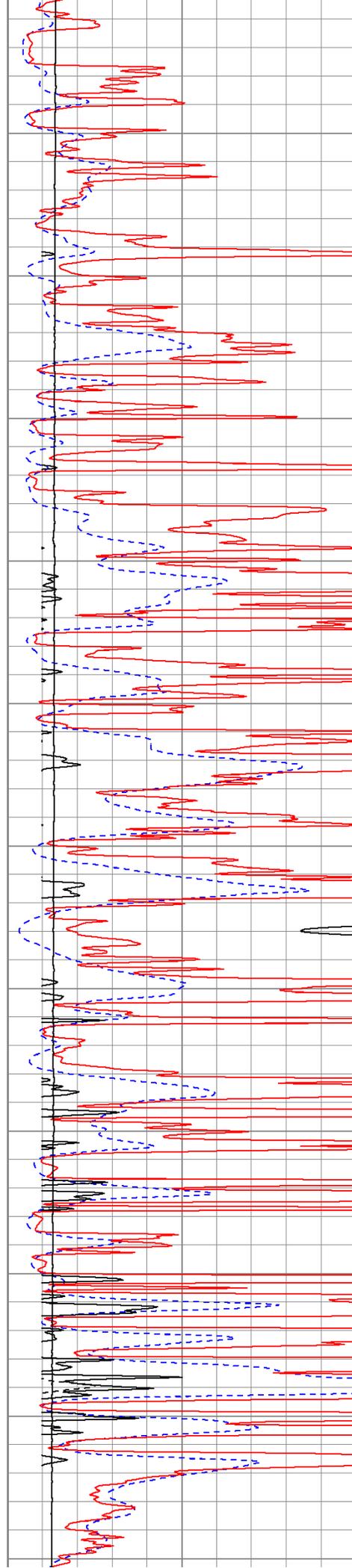
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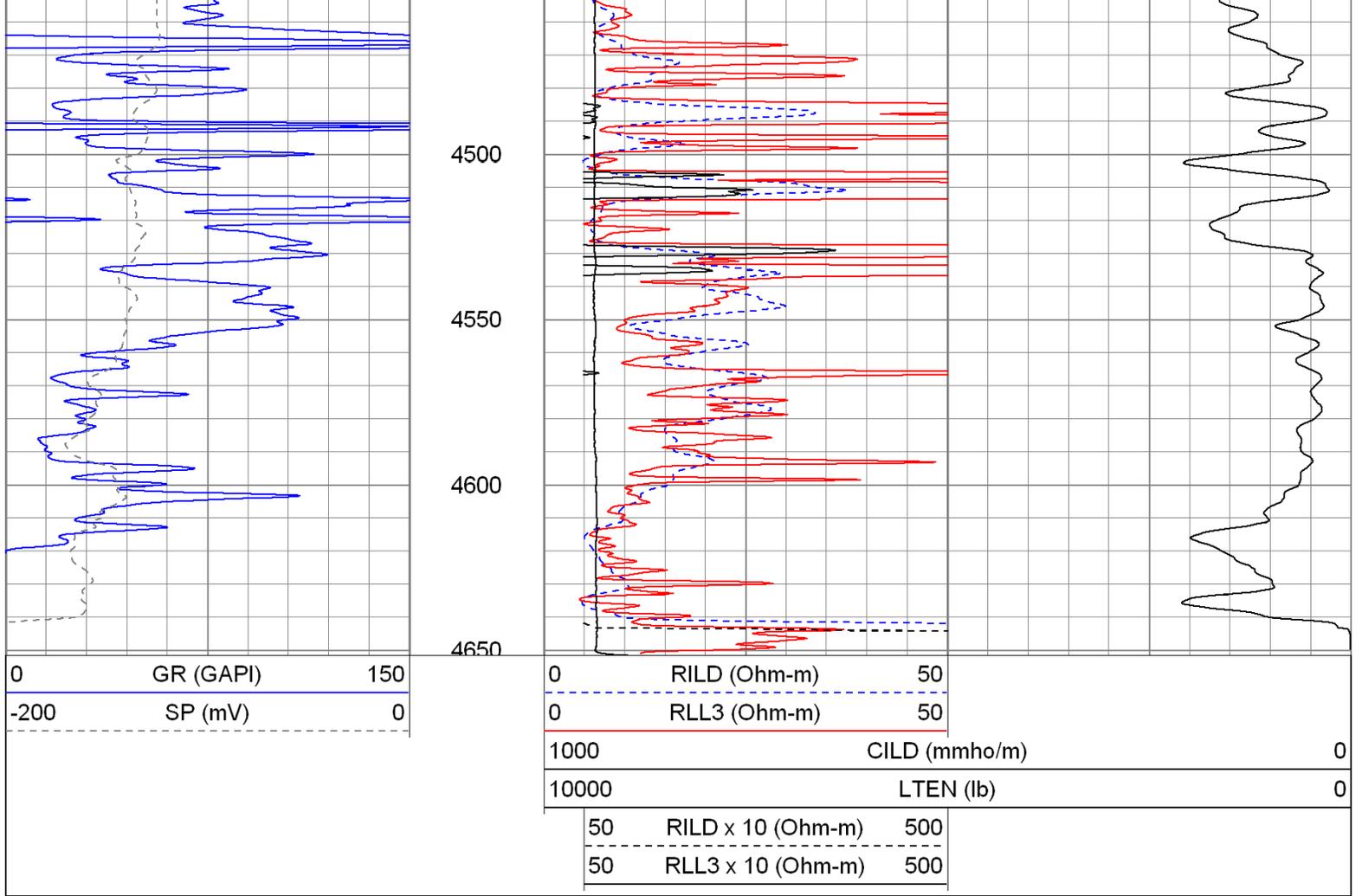






3950
4000
4050
4100
4150
4200
4250
4300
4350
4400
4450

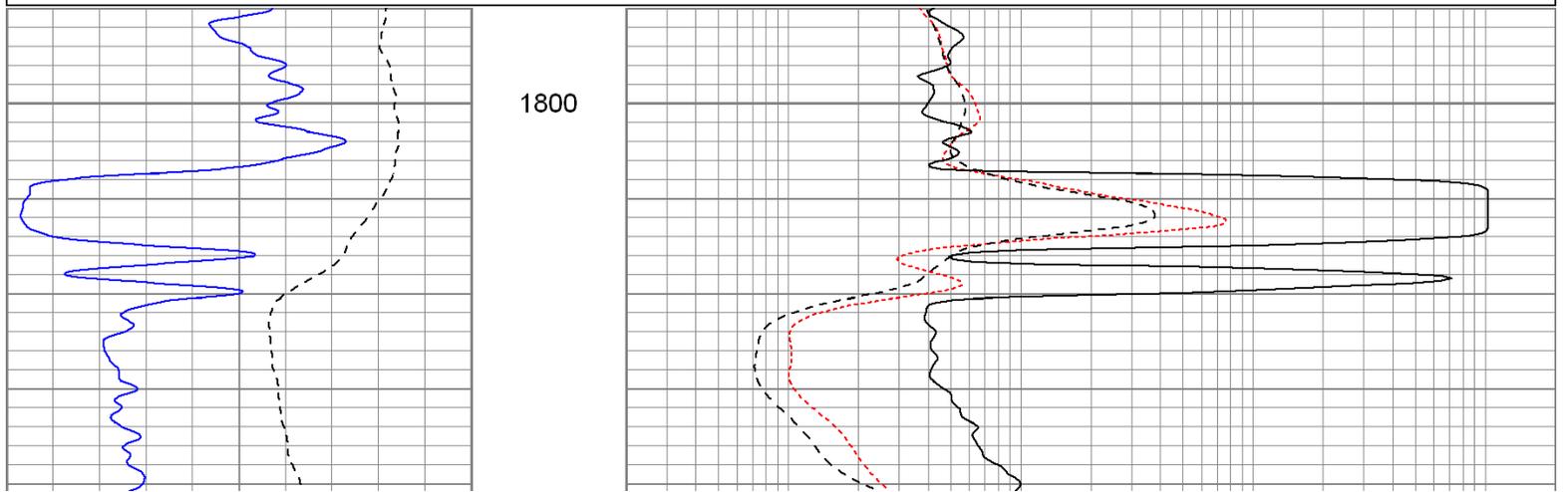


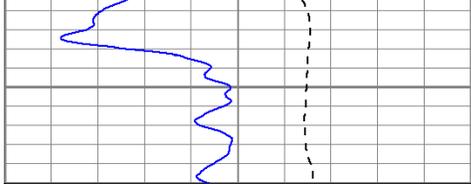


Main Pass

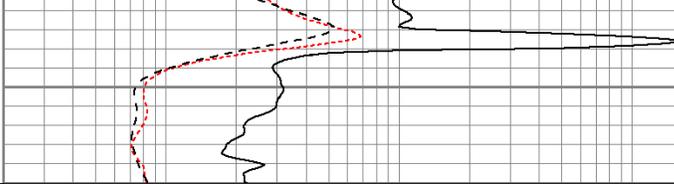
Database File: ppwhipple#1oh.db
 Dataset Pathname: pass2
 Presentation Format: kdil
 Dataset Creation: Sun Feb 03 02:26:34 2013 by Log Open-Cased 100827
 Charted by: Depth in Feet scaled 1:240

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





1850



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

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

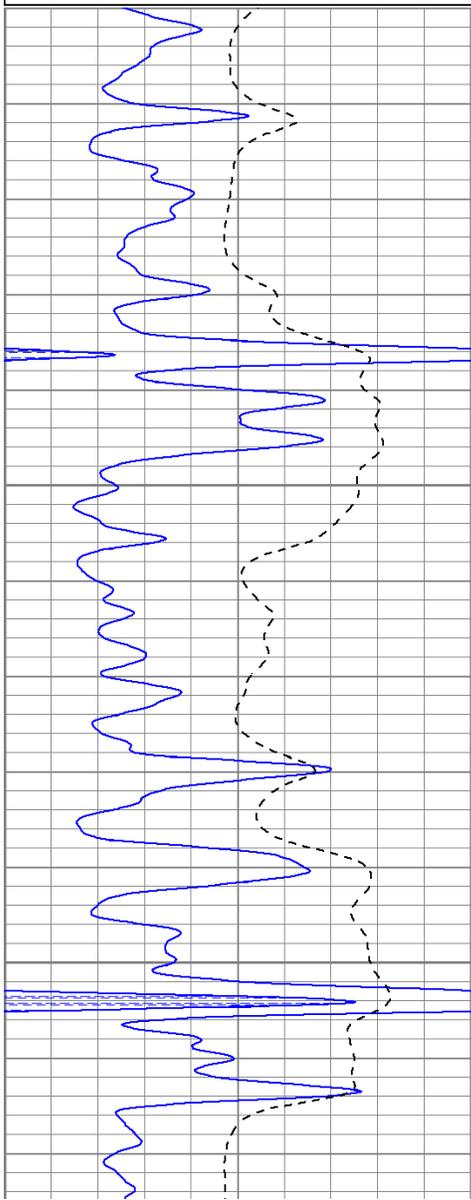


Main Pass

Database File: ppwhipple#1oh.db
 Dataset Pathname: pass2
 Presentation Format: kdil
 Dataset Creation: Sun Feb 03 02:26:34 2013 by Log Open-Cased 100827
 Charted by: Depth in Feet scaled 1:240

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

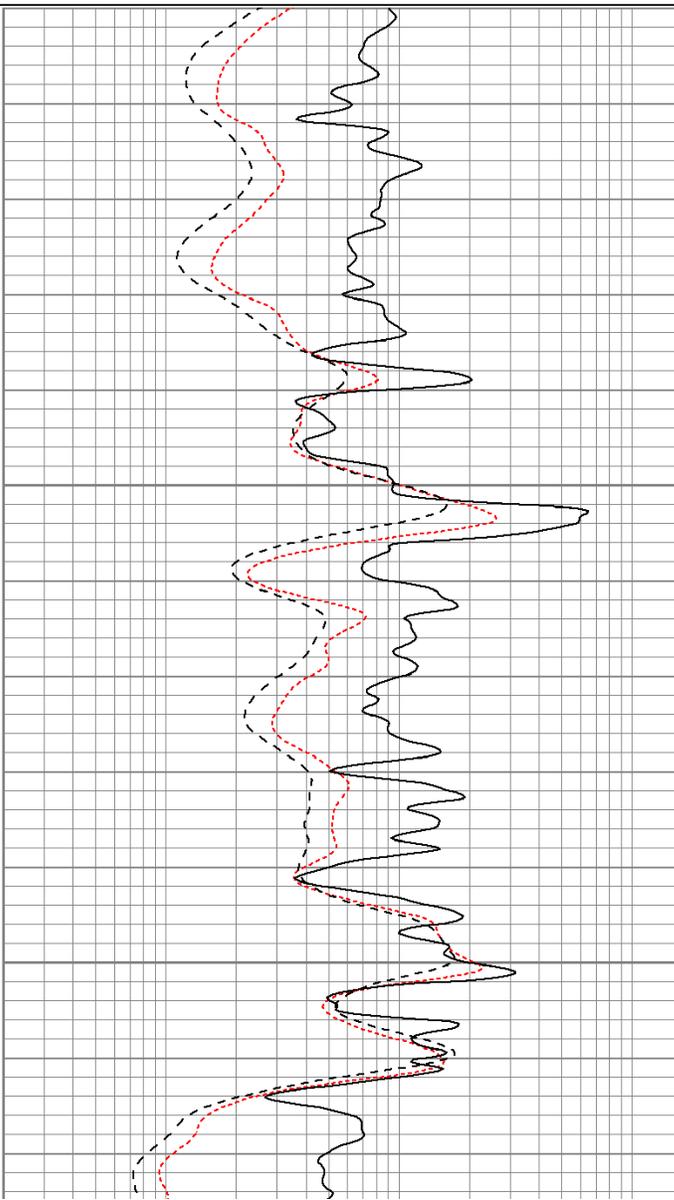
0.2	RILM (Ohm-m)	2000
0.2	RILD (Ohm-m)	2000
0.2	RLL3 (Ohm-m)	2000

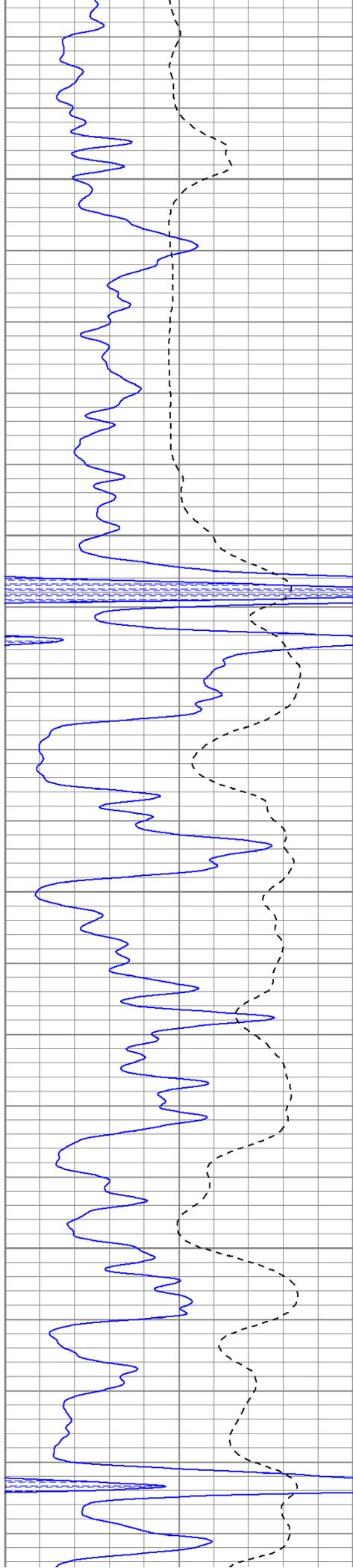


3700

3750

3800



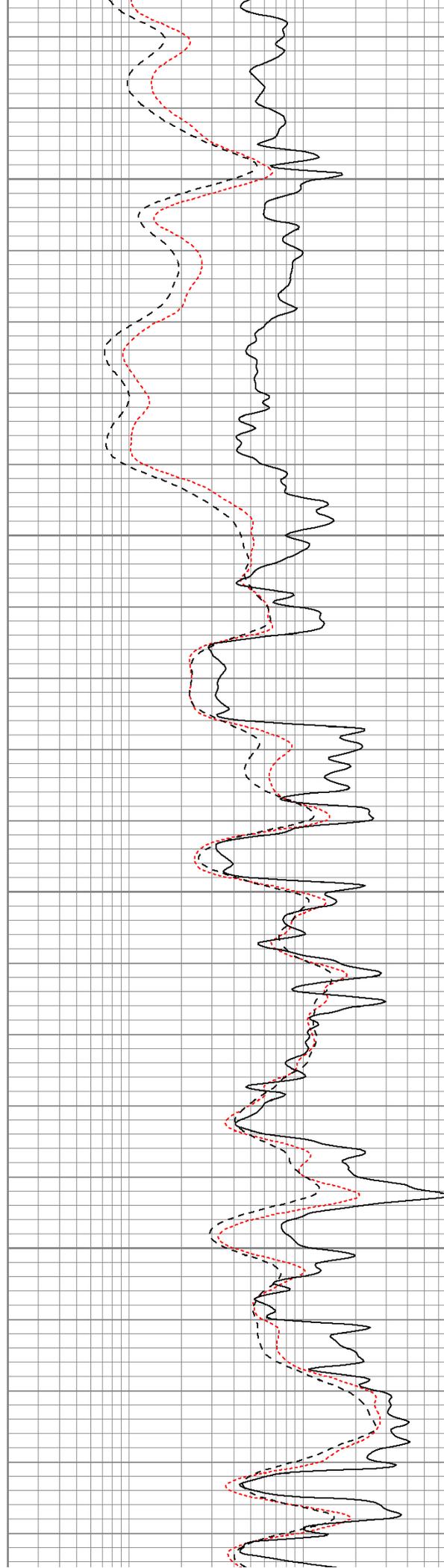


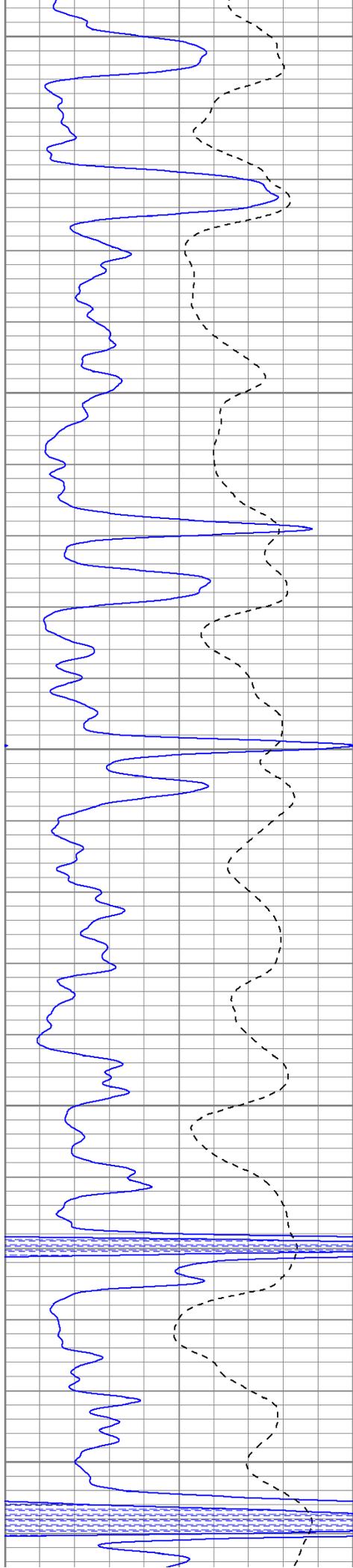
3850

3900

3950

4000





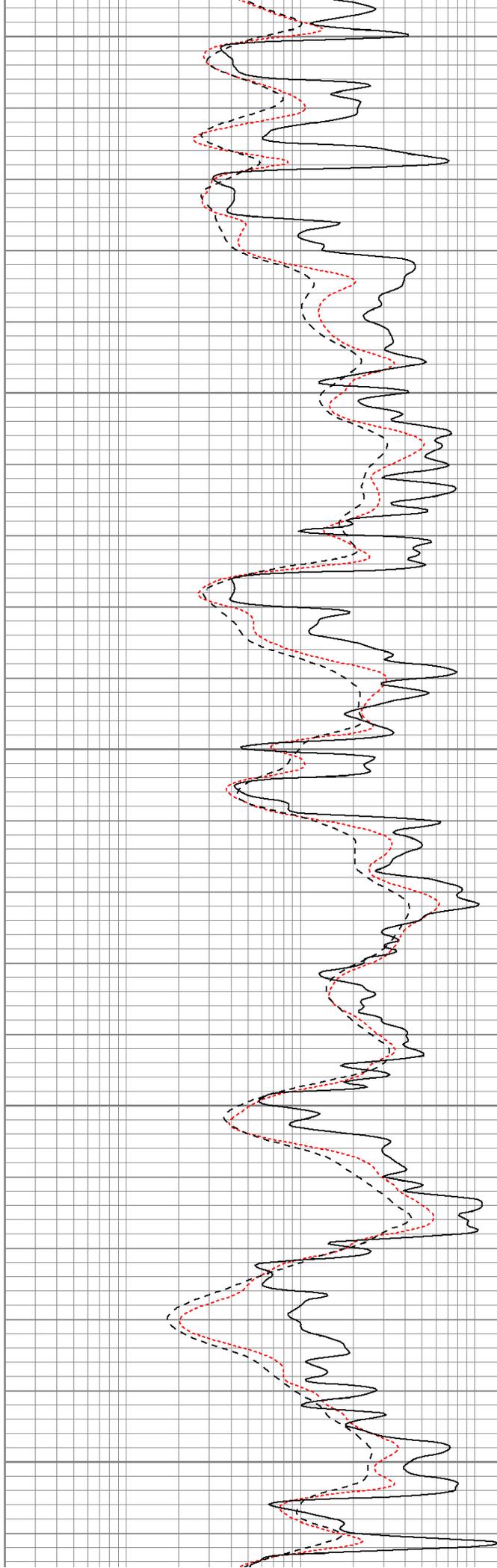
4050

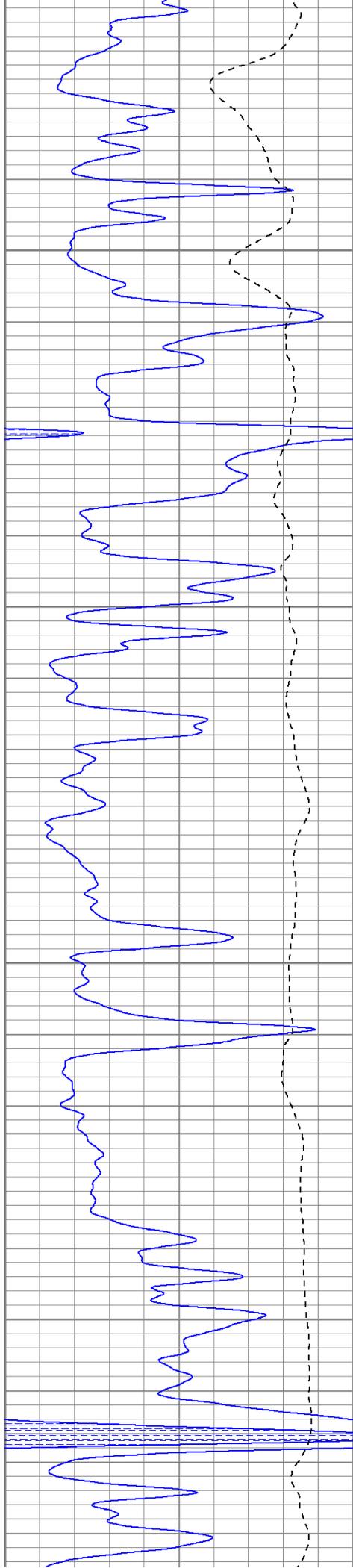
4100

4150

4200

4250



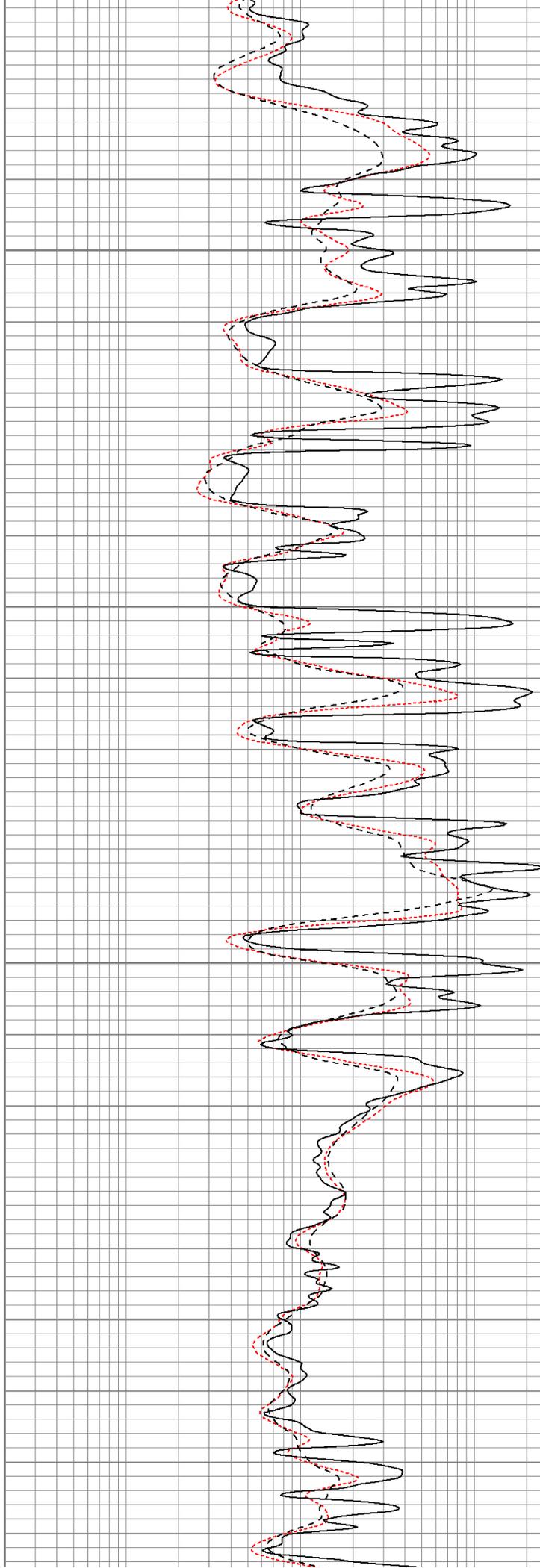


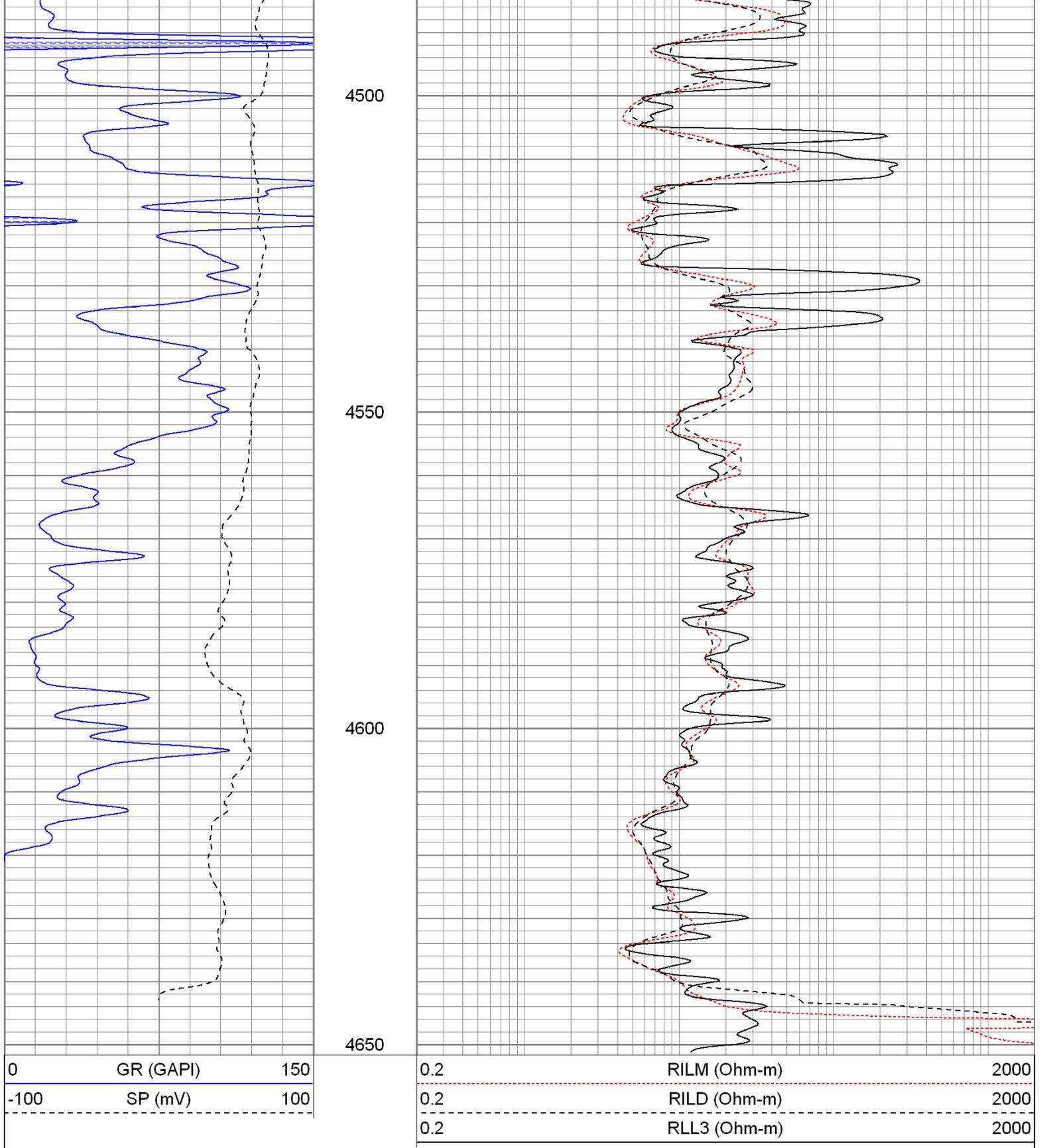
4300

4350

4400

4450



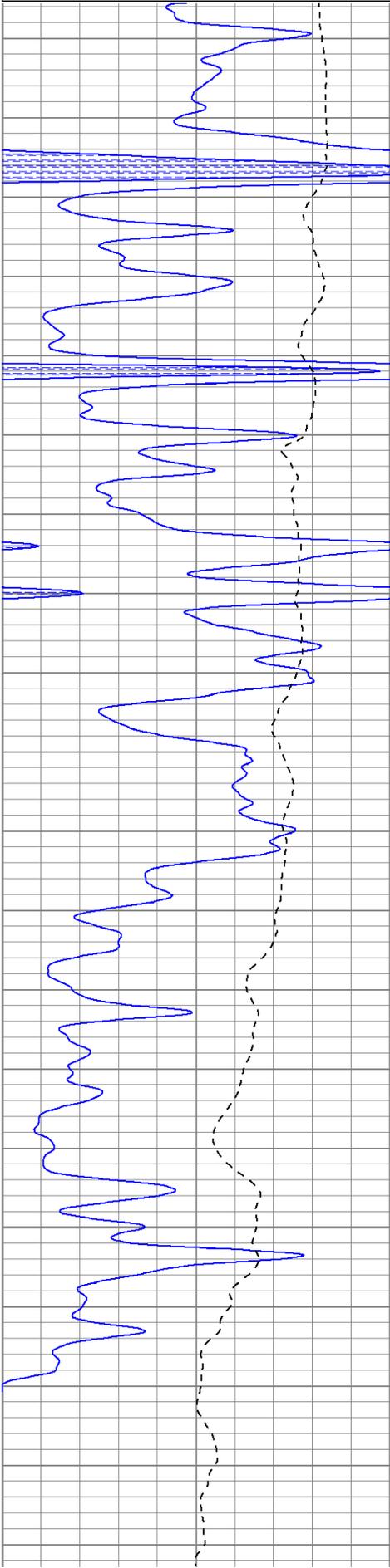


Repeat Pass

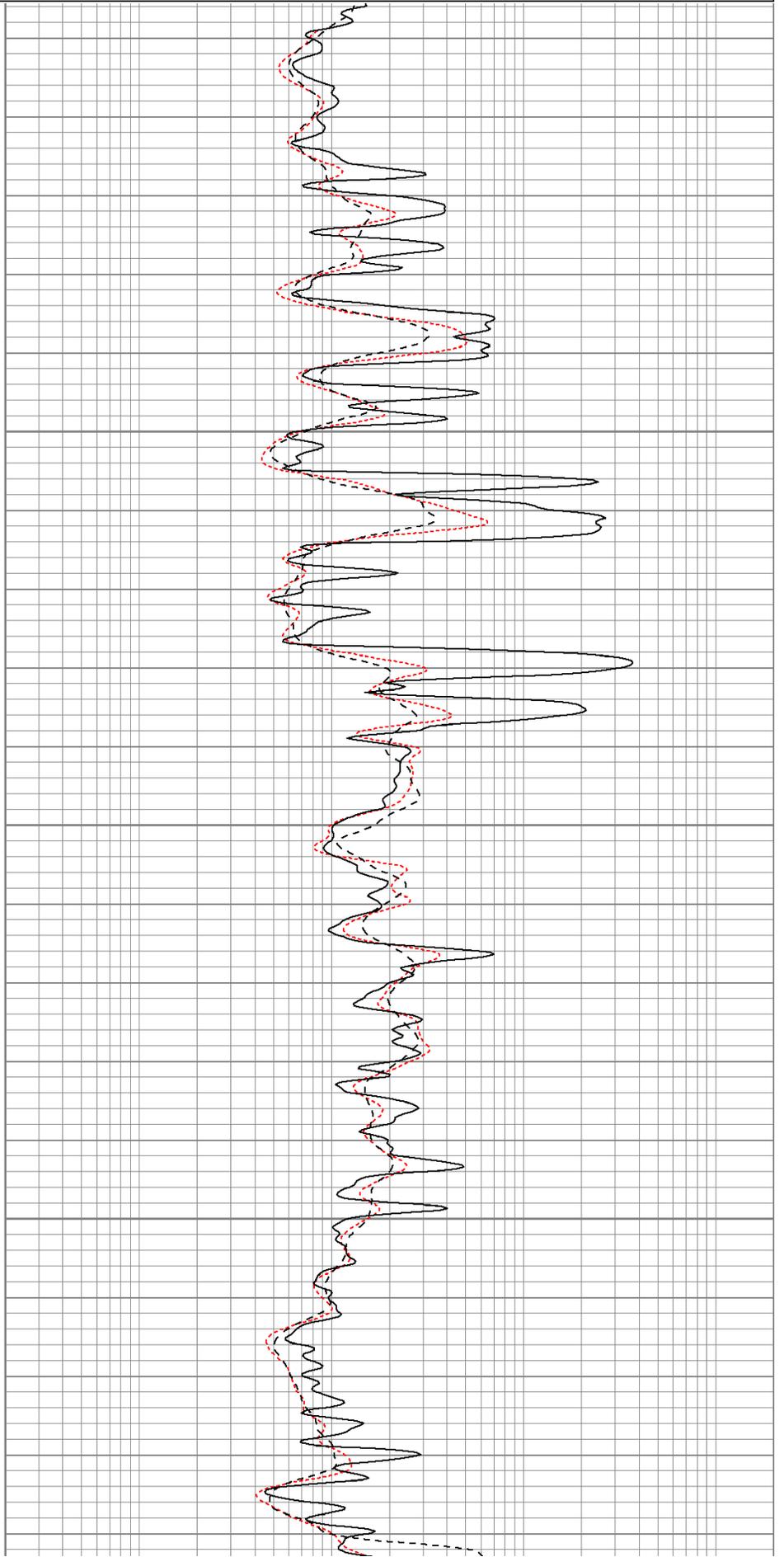
Database File: ppwhipple#1oh.db
 Dataset Pathname: pass1
 Presentation Format: kdil
 Dataset Creation: Sun Feb 03 02:16:33 2013 by Log-Open-Caseid 100927

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

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



4450
4500
4550
4600



			4650					
0	GR (GAPI)	150		0.2	RILM (Ohm-m)			2000
-100	SP (mV)	100		0.2	RILD (Ohm-m)			2000
				0.2	RLL3 (Ohm-m)			2000

Calibration Report

Database File: ppwhipple#1oh.db
Dataset Pathname: pass1
Dataset Creation: Sun Feb 03 02:16:33 2013 by Log Open-Cased 100827

Dual Induction Calibration Report

Serial-Model: 080522-Probe
Surface Cal Performed: Sun Dec 02 13:33:30 2012
Downhole Cal Performed: Sun Dec 02 13:35:39 2012
After Survey Verification Performed: Sun Dec 02 13:35:39 2012

Surface Calibration									
Readings				References			Results		
Loop:	Air	Loop		Air	Loop		m	b	
Deep	0.001	0.638	V	0.000	400.000	mmho/m	628.149	-0.909	
Medium	0.003	0.735	V	0.000	464.000	mmho/m	634.133	-1.885	
Internal:	Zero	Cal		Zero	Cal		m	b	
Deep	0.001	0.639	V	0.000	400.000	mmho/m	627.770	-0.927	
Medium	0.003	0.735	V	0.000	464.000	mmho/m	634.038	-1.896	

Downhole Calibration									
Readings				References			Results		
	Zero	Cal		Zero	Cal		m'	b'	
Deep	-0.587	400.153	mmho/m	0.019	400.261	mmho/m	0.999	0.605	
Medium	-0.685	463.926	mmho/m	0.012	464.081	mmho/m	0.999	0.696	
LL3		7.259	V		750.000	Ohm-m			
		-0.000	V		12.000	Ohm-m			
		-7.420	V		3745.000	mmho-m			

Compensated Density Calibration Report

Serial-Model: 2388DHT-DHT
Source / Verifier: /
Master Calibration Performed: Mon Jan 07 17:00:17 2013

Master Calibration									
Density			Far Detector		Near Detector				
Magnesium	1.750	g/cc	717.11		305.57	cps			
Aluminum	2.620	g/cc	140.63		205.93	cps			
Spine Angle = 76.38			Density/Spine Ratio = 0.519						
Size			Reading						
Small Ring	8.25	in	5771.32						
Large Ring	14.00	in	10165.20						

Gamma Ray Calibration Report

Serial Number: 2000
 Tool Model: P2000
 Performed: Wed Jan 23 07:42:55 2013

 Calibrator Value: 1.0 GAPI

 Background Reading: 0.0 cps
 Calibrator Reading: 1.0 cps

 Sensitivity: 0.2400 GAPI/cps

Neutron Calibration Report

Serial Number: 5108
 Tool Model: PROBE
 Performed: Mon Jan 07 17:00:44 2013

 Calibrator Value: 1 NAPI

 Calibrator Reading: 1 cps

 Sensitivity: 1 NAPI/cps

Sensor	Offset (ft)	Schematic	Description	Len (ft)	OD (in)	Wt (lb)	
NEU	37.96		None	0.75	1.50	5.00	
			NEU-PROBE (5108) Probe	4.92	3.63	85.00	
GR	32.57		GR-P2000 (2000)	3.67	3.25	40.00	
			CDL-DHT (2388DHT) Digital High Temp CDL Tool	9.69	4.00	201.00	
LSD	23.78						
DCAL	23.49						
SSD	23.24						
HEADVOLT	21.47						
CILD	10.60			DIL-Probe (080522) Probe Dual Induction	21.47	4.00	345.00
SP	10.60						
CILM	6.89						
RLL3	1.70						

Dataset: ppwhipple#1oh.db: field/well/run1/pass1
 Total Length: 40.49 ft
 Total Weight: 676.00 lb
 O.D.: 4.00 in