



DUAL INDUCTION LOG

Company VAL ENERGY, INC.	
Well	JOHN "A" NO. 2-20
Field	UNKNOWN
County	THOMAS
State	KANSAS
Company VAL ENERGY, INC.	
Well	JOHN "A" NO. 2-20
Field	UNKNOWN
County	THOMAS
State	KANSAS
Location:	API # : 15-193-20958-00-00
336' FEL & 828' FNL	
SEC 20 TWP 8S RGE 35W	CNL/CDL MEL
Permanent Datum	GROUND LEVEL Elevation 3315'
Log Measured From	KELLY BUSHING
Drilling Measured From	KELLY BUSHING
Elevation	K.B. 3320'
	D.F. N/A
	G.L. 3315'
Date	9/22/15
Run Number	ONE
Depth Driller	4870'
Depth Logger	4868'
Bottom Logged Interval	4867'
Top Log Interval	250'
Casing Driller	266' @ 8.625"
Casing Logger	264'
Bit Size	7.875"
Type Fluid in Hole	CHEMICAL
Salinity, ppm CL	6,500
Density / Viscosity	9.1 57
pH / Fluid Loss	10.0 9.6
Source of Sample	Flowline
Rm @ Meas. Temp	.32 @ 76
Rmt @ Meas. Temp	.24 @ 76
Rmc @ Meas. Temp	.43 @ 76
Source of Rmt / Rmc	Charts
Rm @ BHT	.20 @ 125
Operating Rig Time	3 1/2 HOURS
Max Rec. Temp. F	125
Equipment Number	108
Location	Hays
Recorded By	J. HENRICKSON
Witnessed By	HARLEY SAYLES

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All interpretations are opinions based on inferences from electrical or other measurements and Pioneer Wireline Services, LLC cannot and does not guarantee the accuracy or correctness of any interpretation, and Pioneer Wireline Services, LLC will not 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.

Comments

N/A DENOTES NOT AVAILABLE OR NON-APPLICABLE.

LEVANT EXIT ON I70
1 SOUTH, 2 WEST, 1/4 SOUTH, WEST INTO

Log Measured From: KELLY BUSHING 5 Ft. Above Permanent Datum

THANK YOU FOR USING PIONEER ENERGY SERVICES
www.pioneerenergy.com 785-625-3858

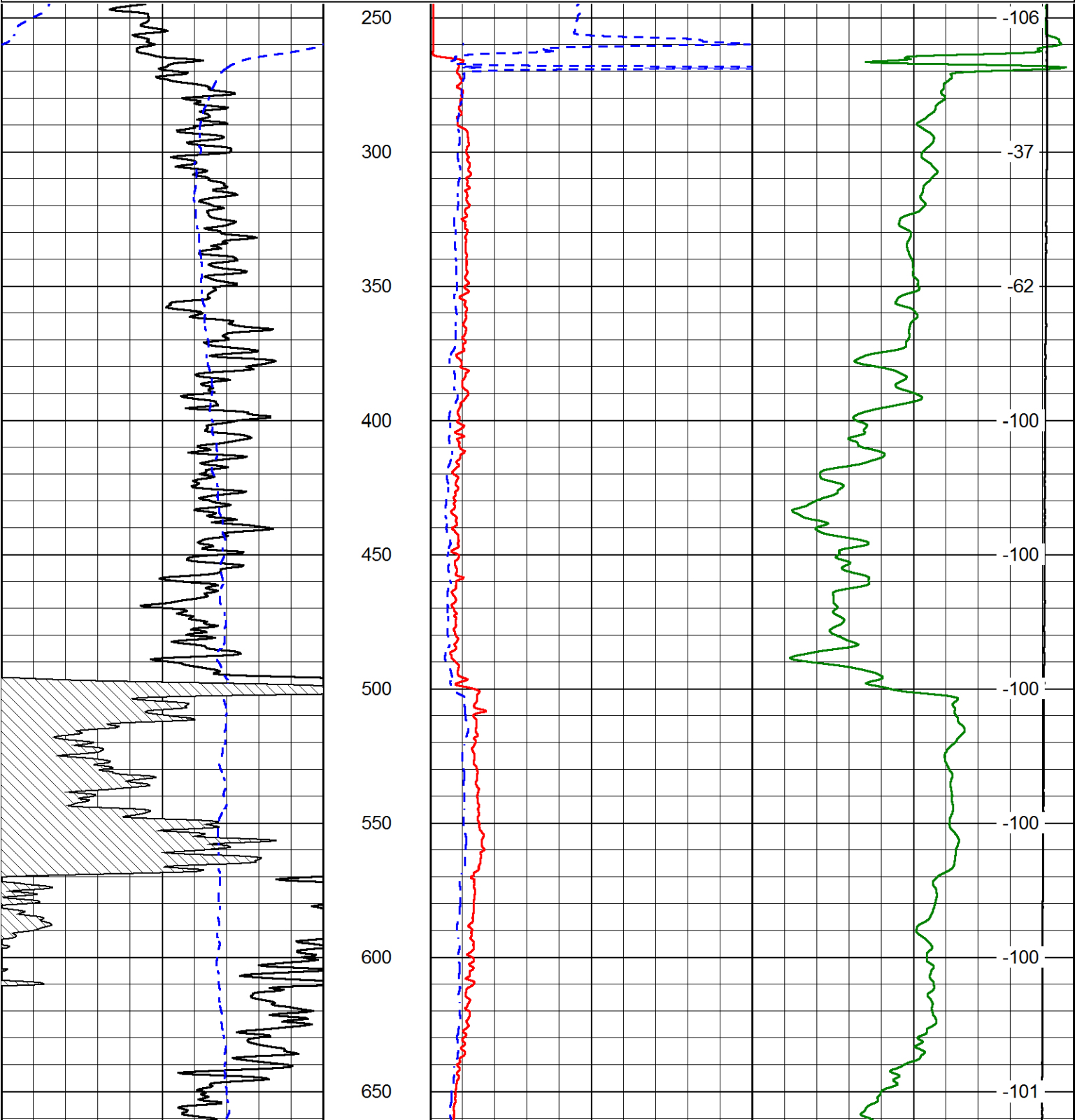
Your Pioneer Energy Services Crew

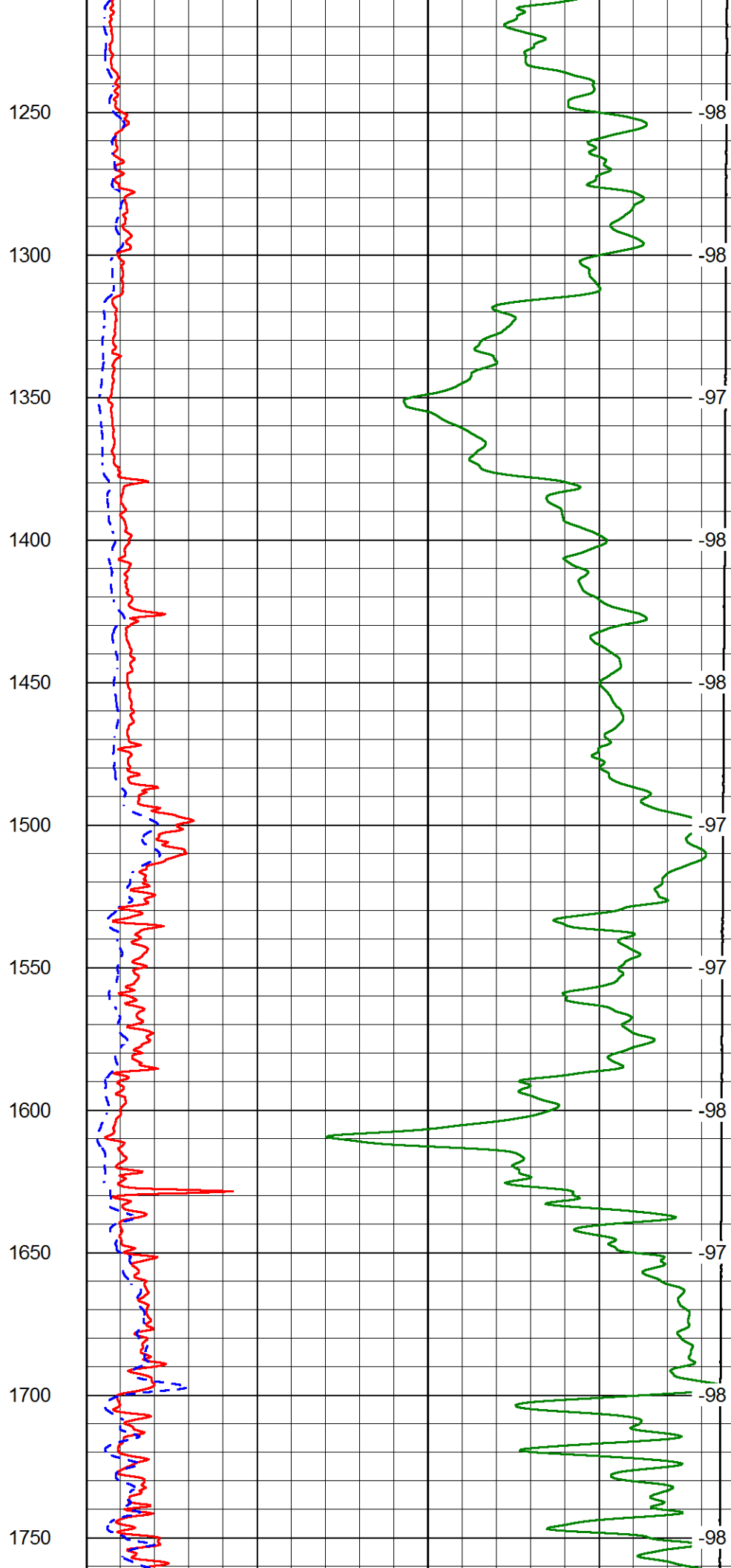
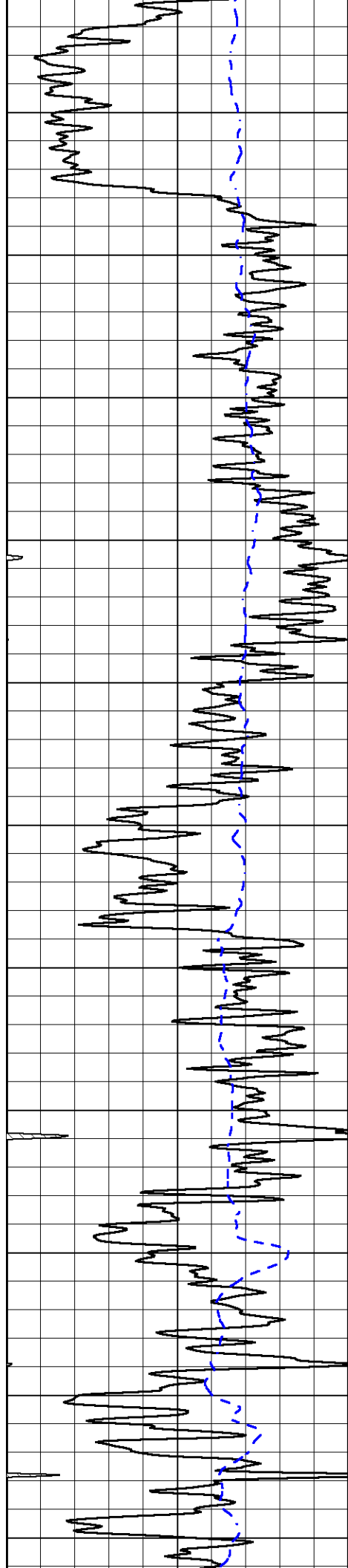
Engineer: J. HENRICKSON
Operator:
Operator:
Operator:

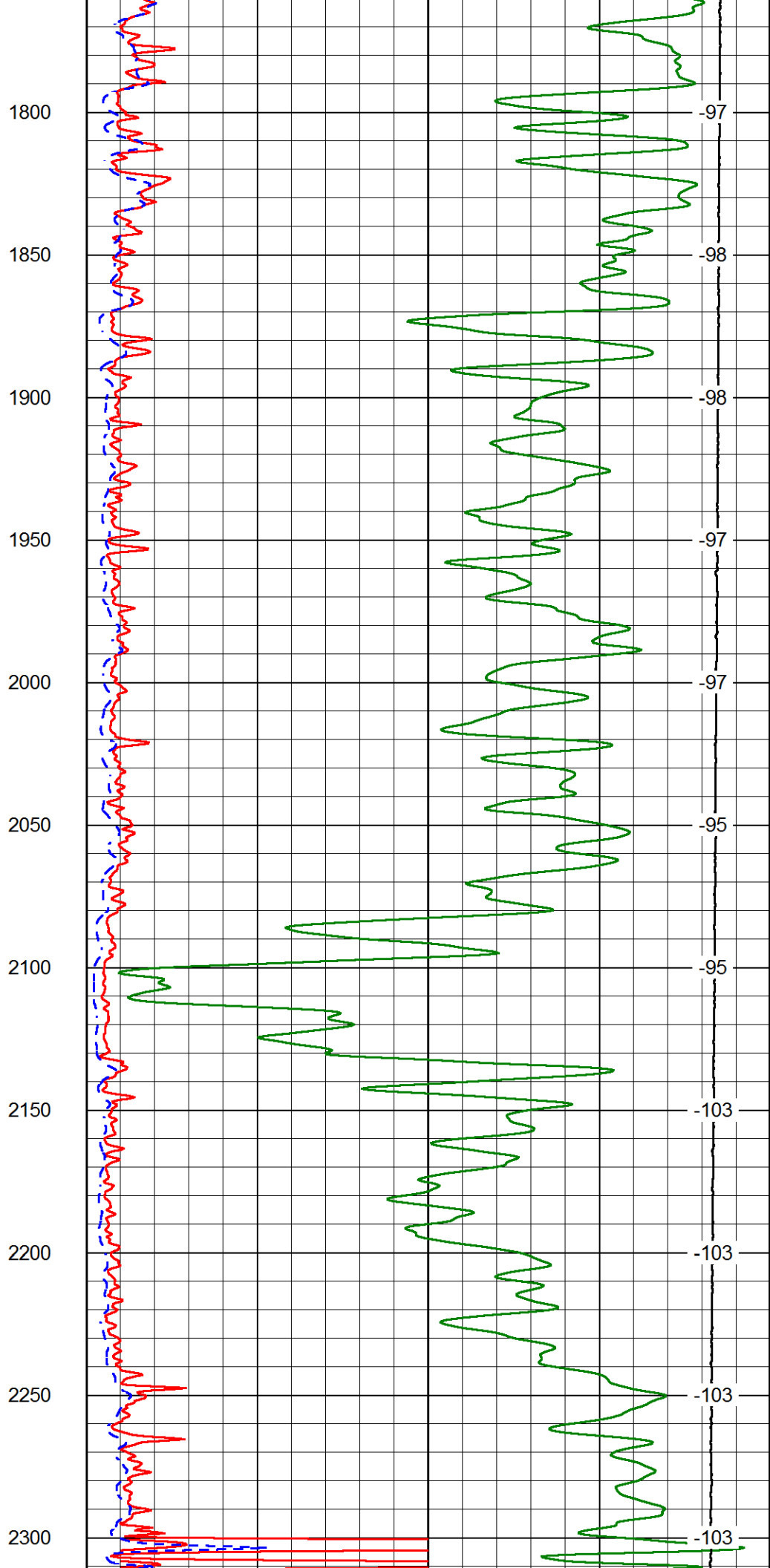
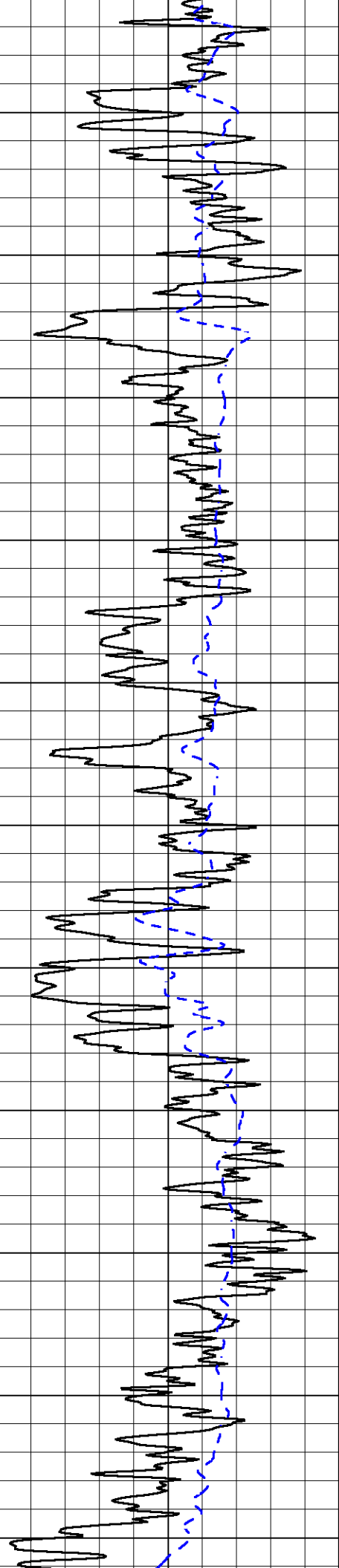
This Log Record Was Witnessed By

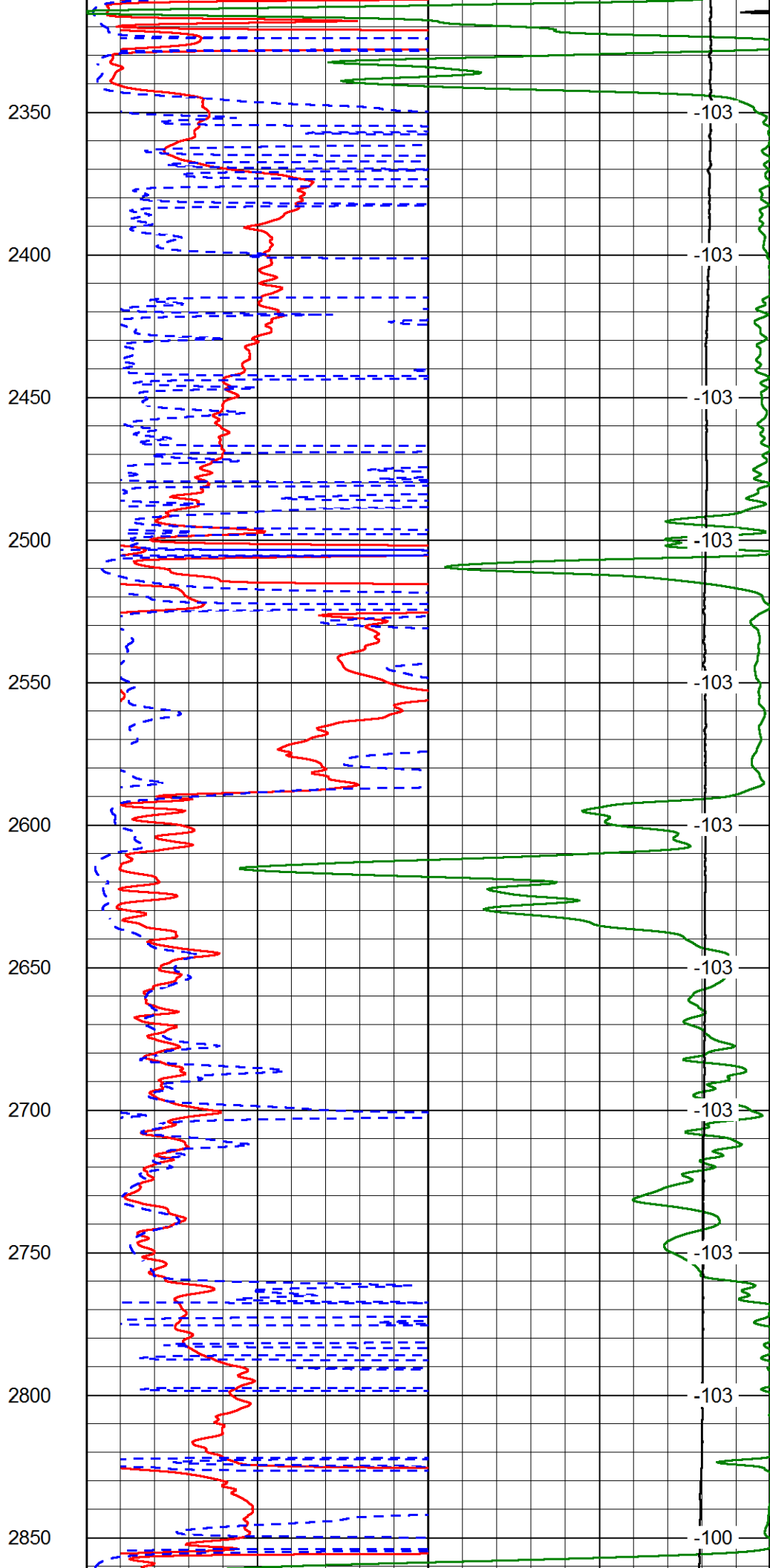
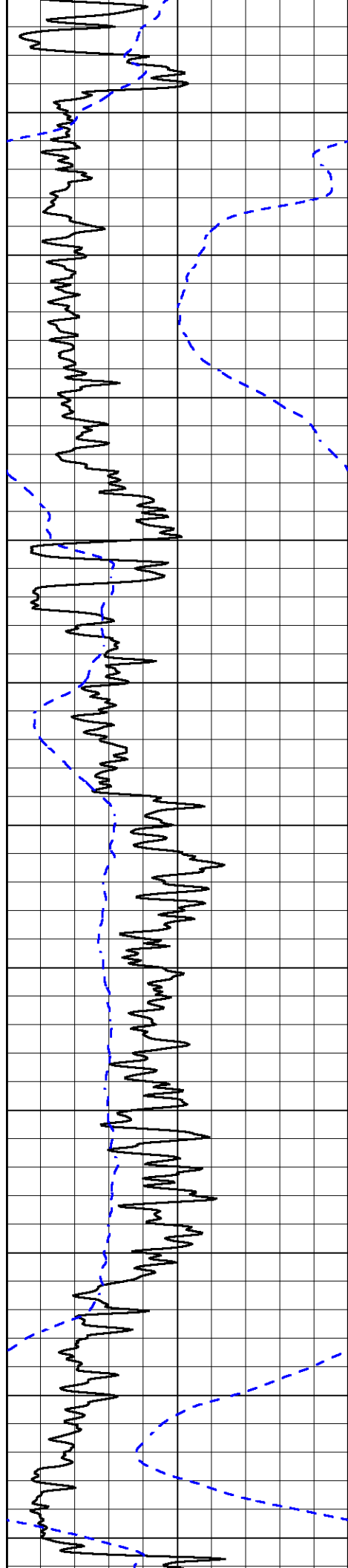
Primary Witness: HARLEY SAYLES
Secondary Witness:
Secondary Witness:
Secondary Witness:

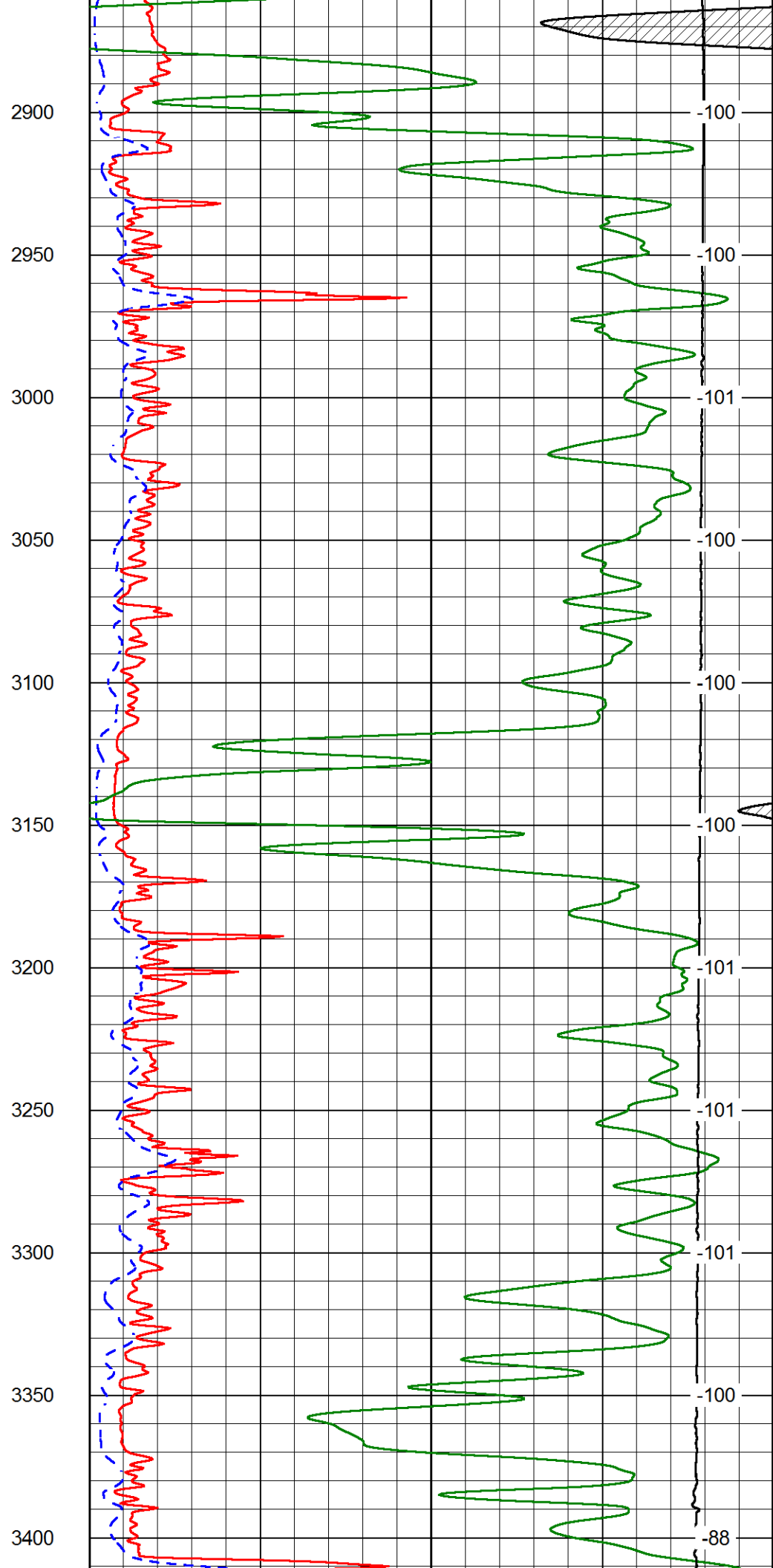
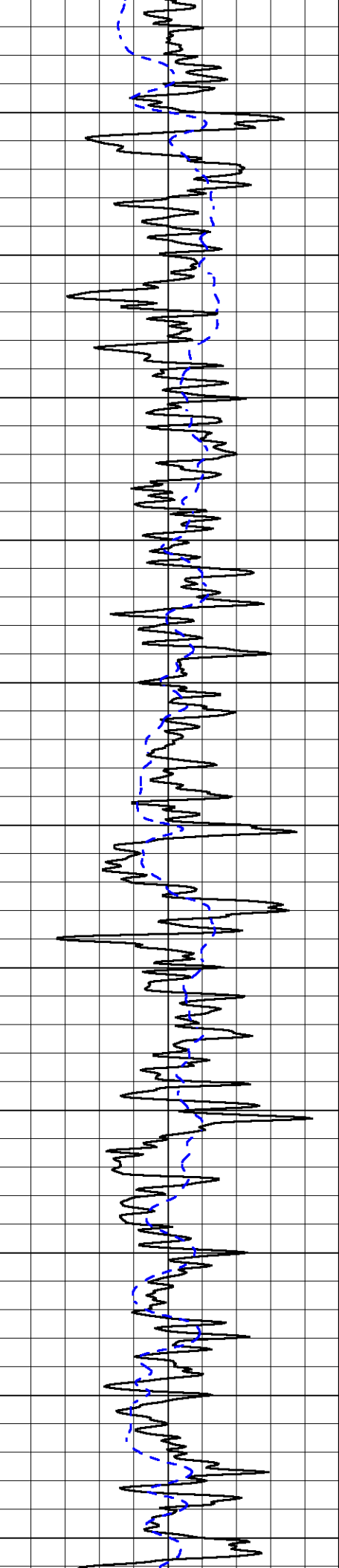
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-200	SP (mV)	0	15000	Line Tension (lb)	0
			0	Shallow Resistivity (Ohm-m)	50
			0	Deep Resistivity (Ohm-m)	50
			Shallow Resistivity		LSPD (ft/min)
			50	(Ohm-m)	500
			50	Deep Resistivity (Ohm-m)	500

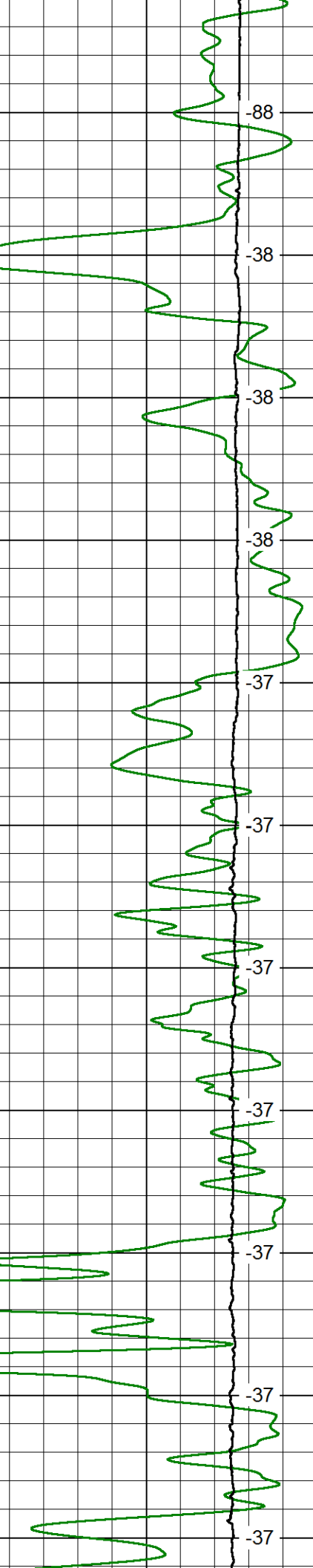
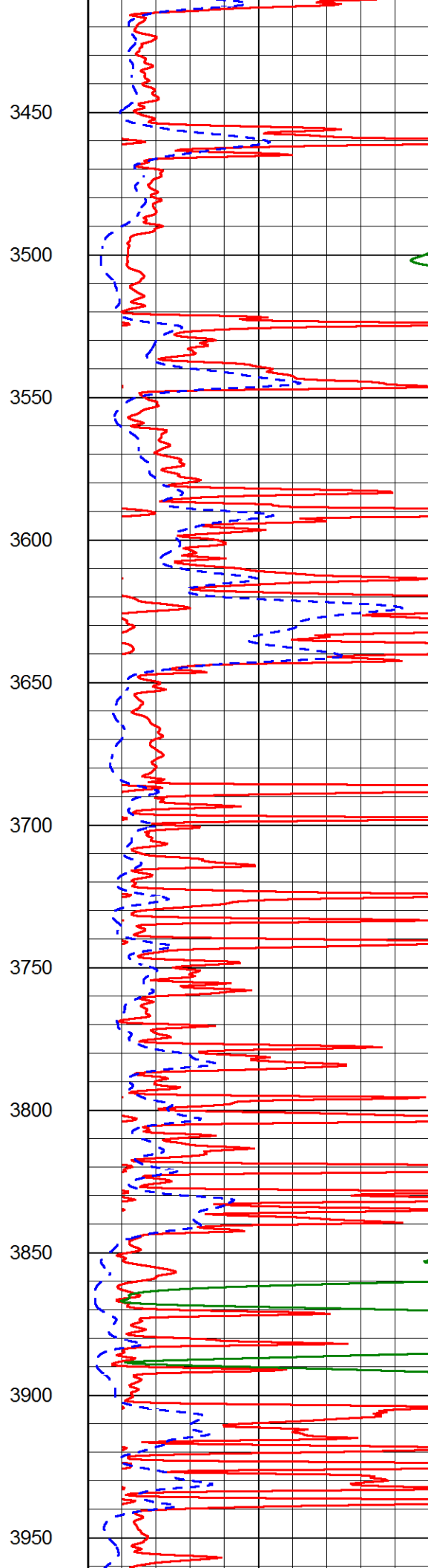
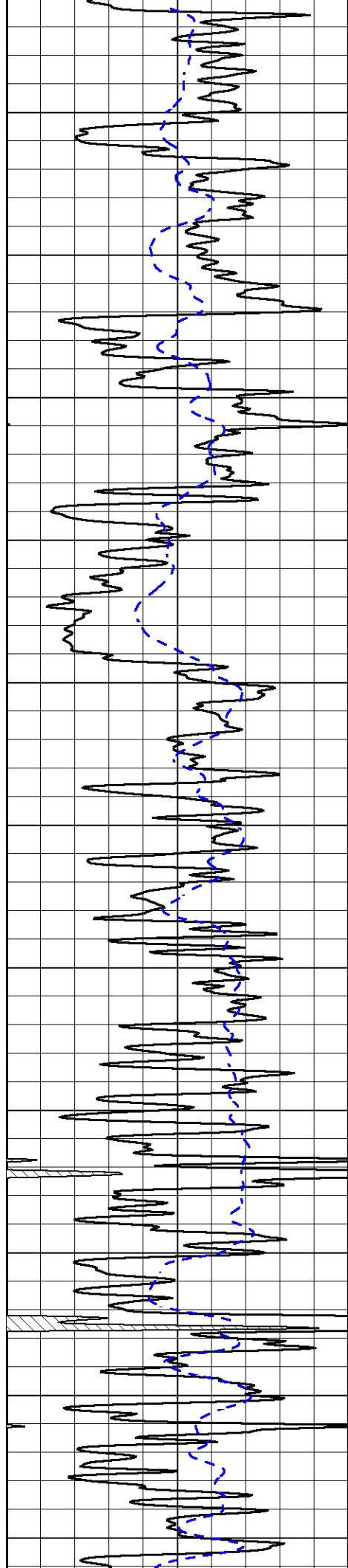


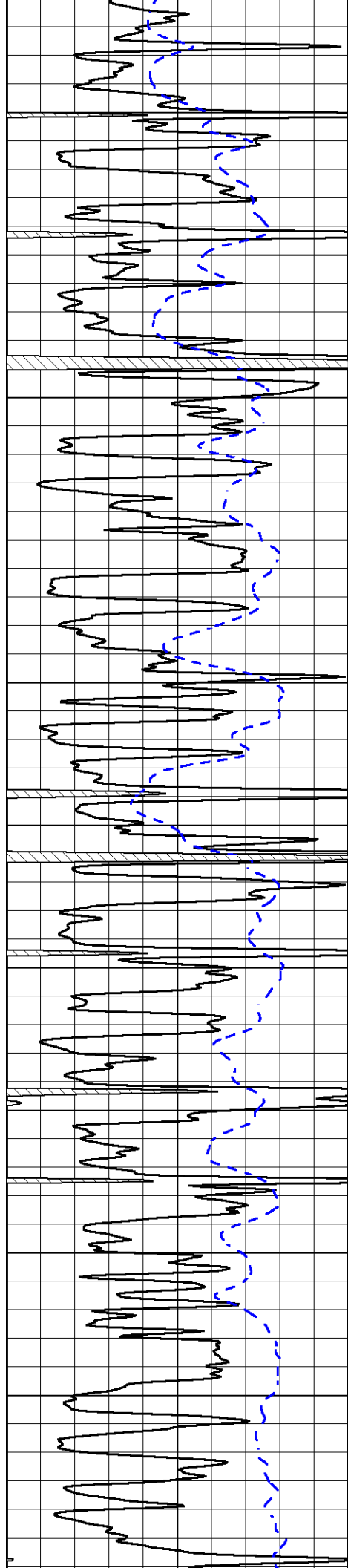












4000

4050

4100

4150

4200

4250

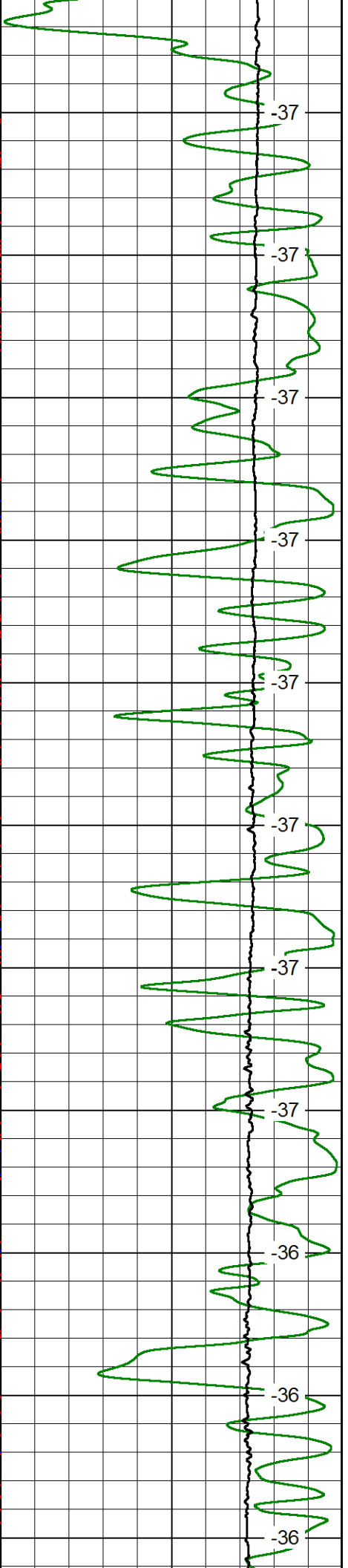
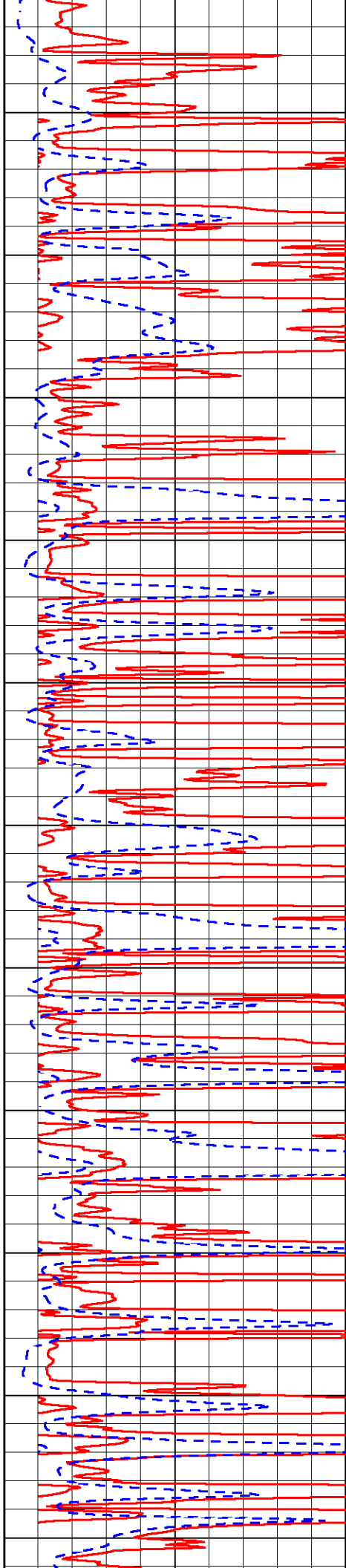
4300

4350

4400

4450

4500



-37

-37

-37

-37

-37

-37

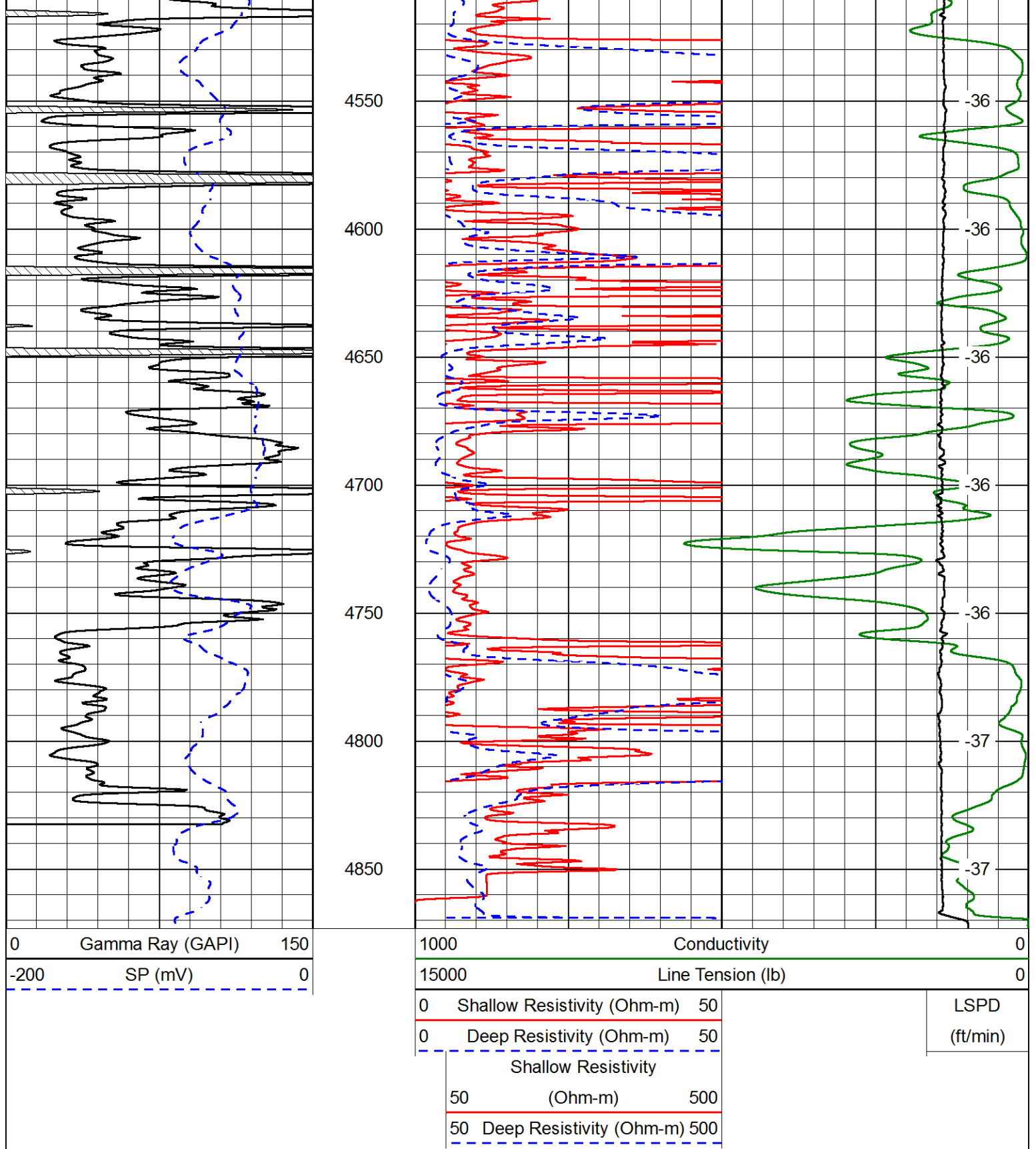
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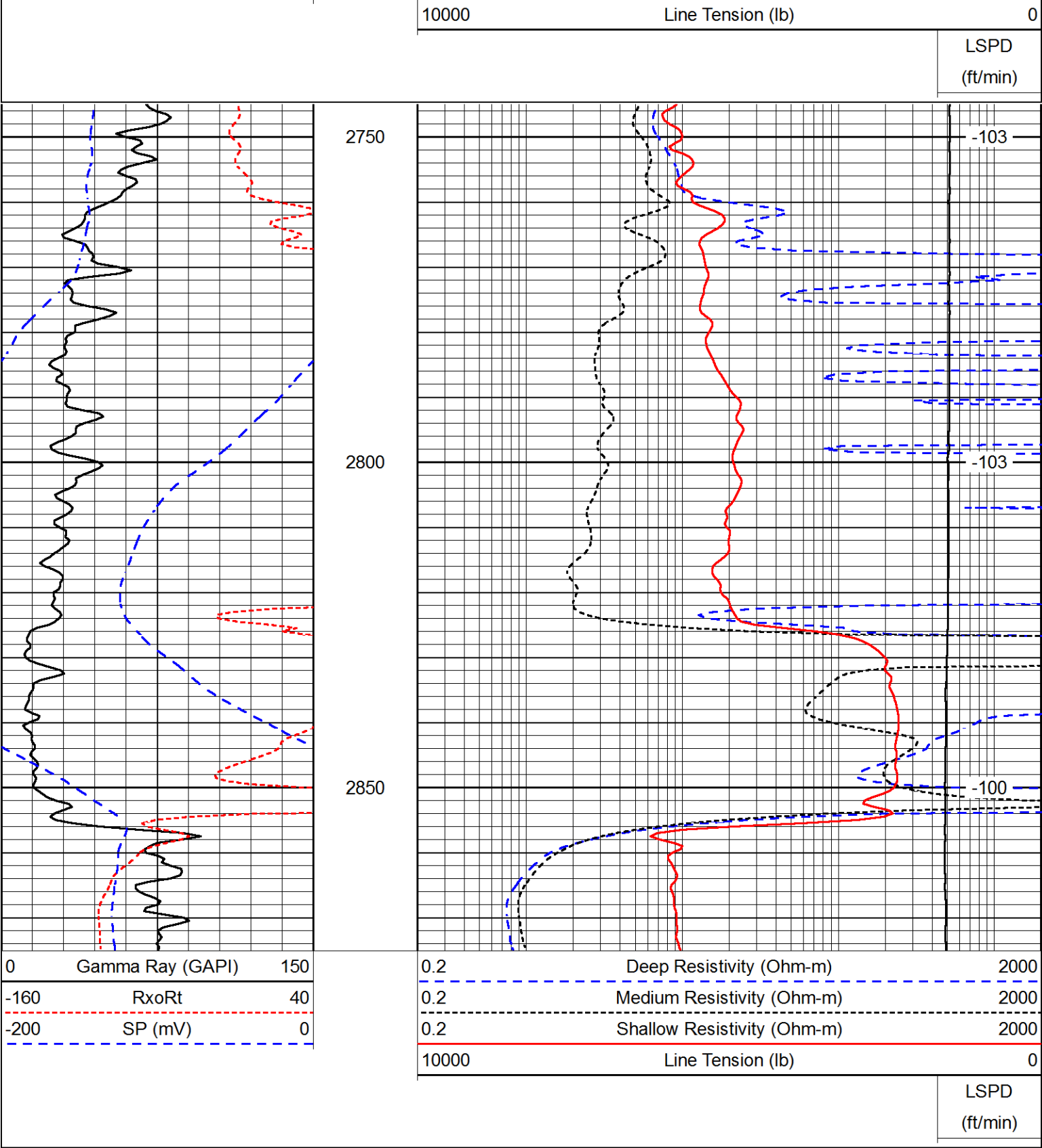
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Database File val_john_a_2_20hd.db
 Dataset Pathname DIL/valstkml
 Presentation Format dil
 Dataset Creation Tue Sep 22 22:23:09 2015
 Charted by Depth in Feet scaled 1:240

0	Gamma Ray (GAPI)	150	0.2	Deep Resistivity (Ohm-m)	2000
-160	RxoRt	40	0.2	Medium Resistivity (Ohm-m)	2000
-200	SP (mV)	0	0.2	Shallow Resistivity (Ohm-m)	2000



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		10000	Line Tension (lb)	0	

LSPD
(ft/min)

3500

-38

3550

-38

3600

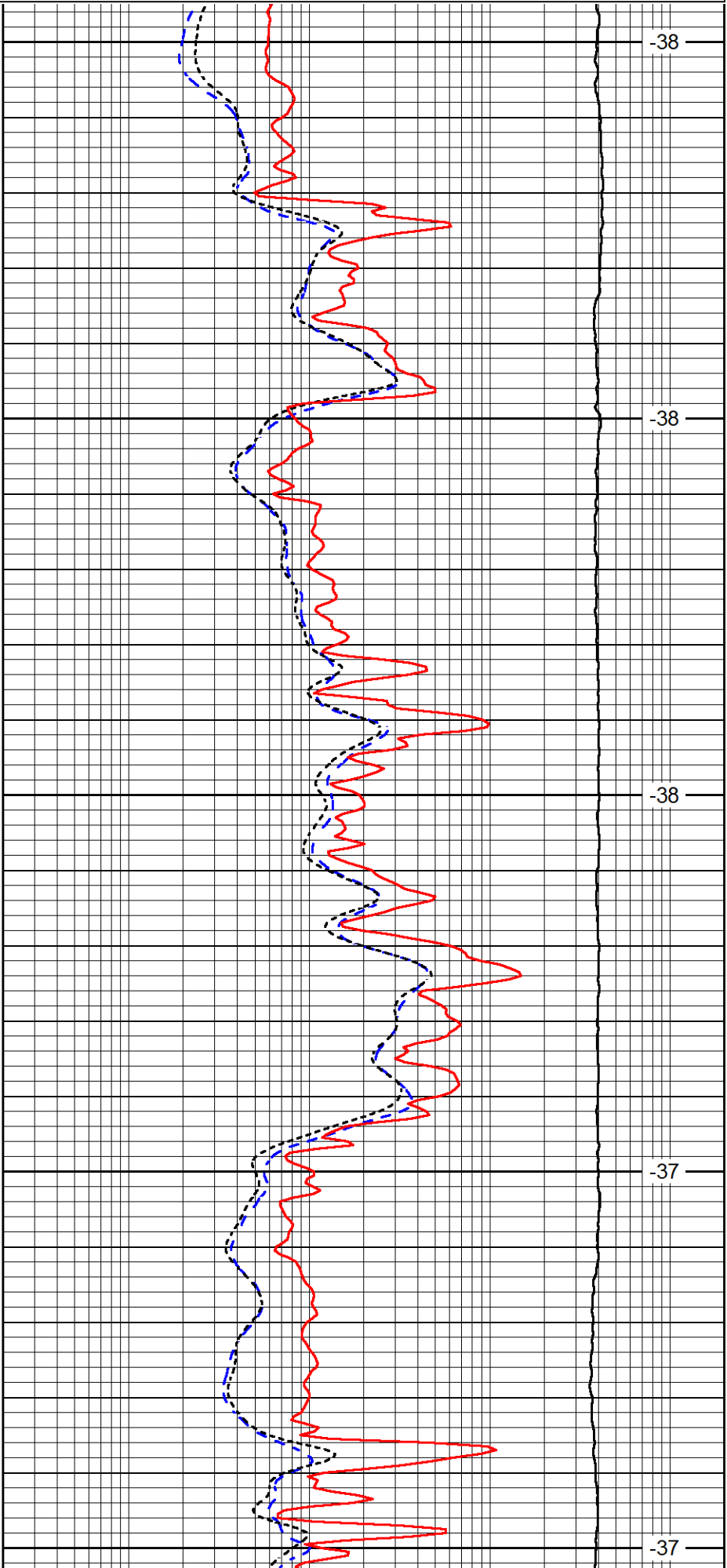
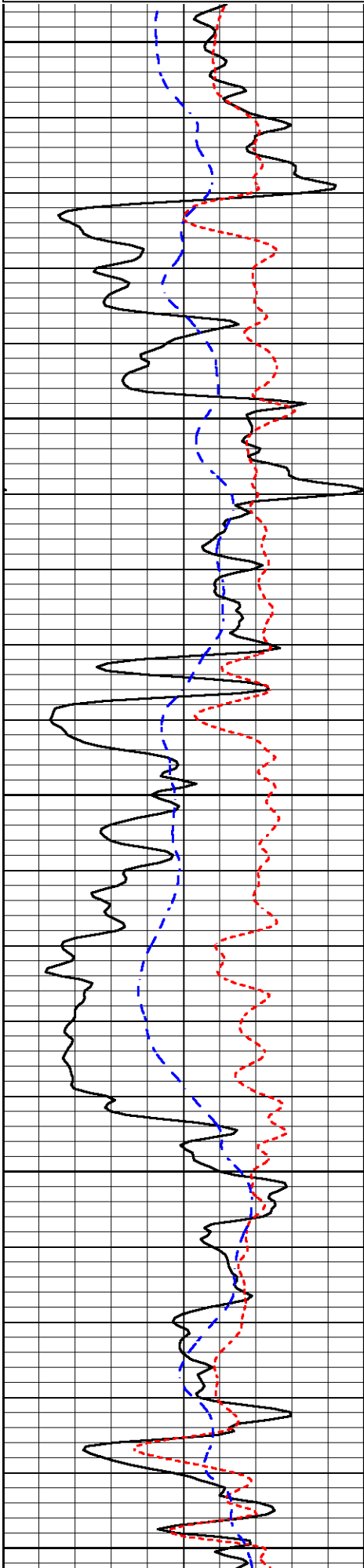
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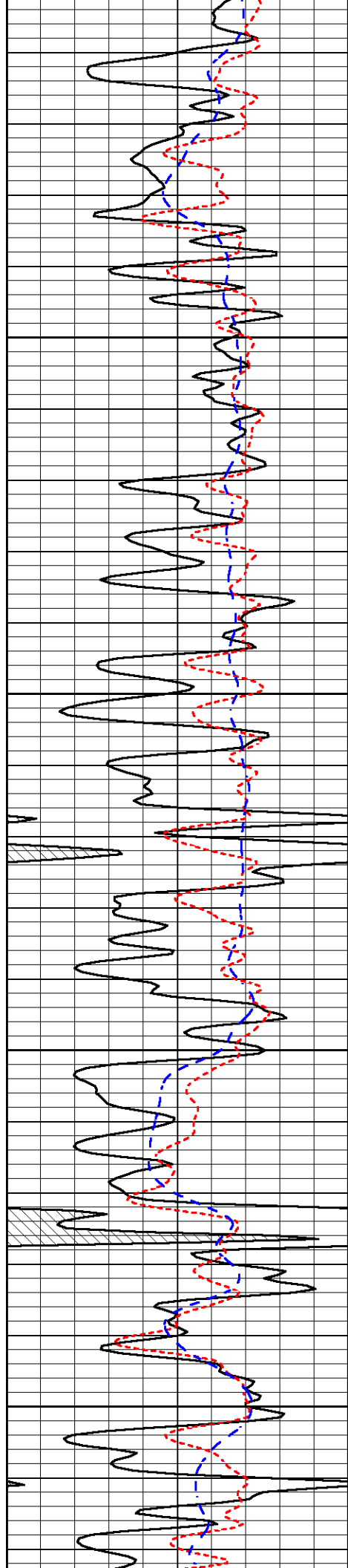
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-37

3700

-37



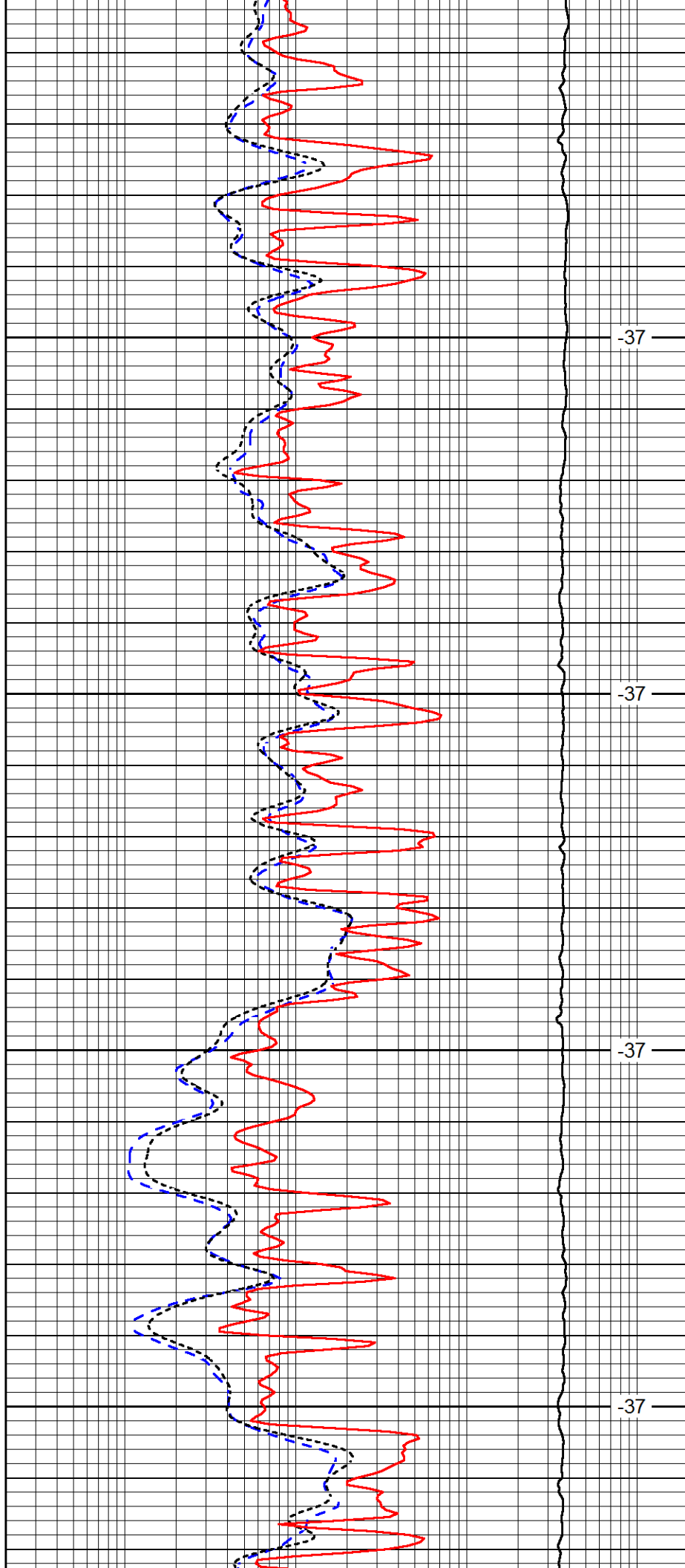


3750

3800

3850

3900

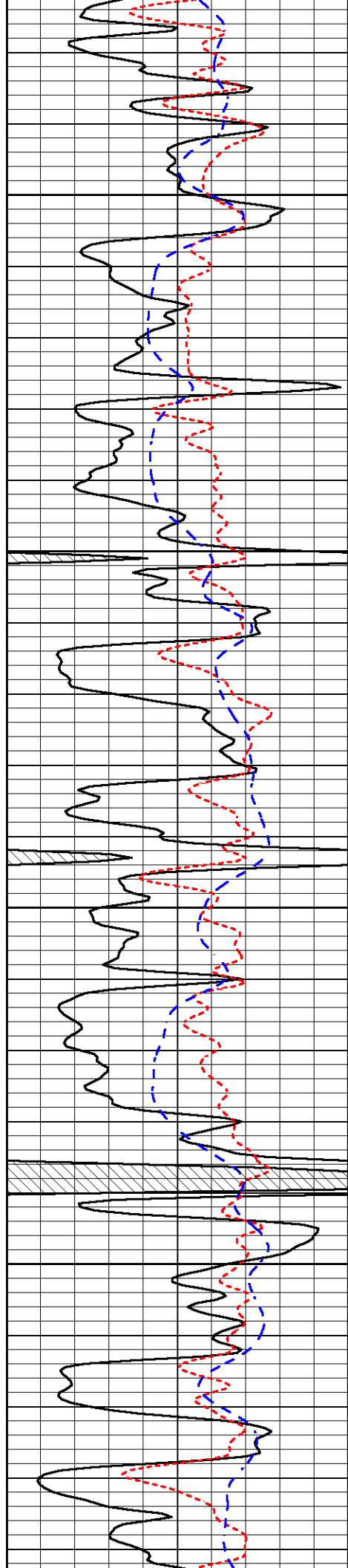


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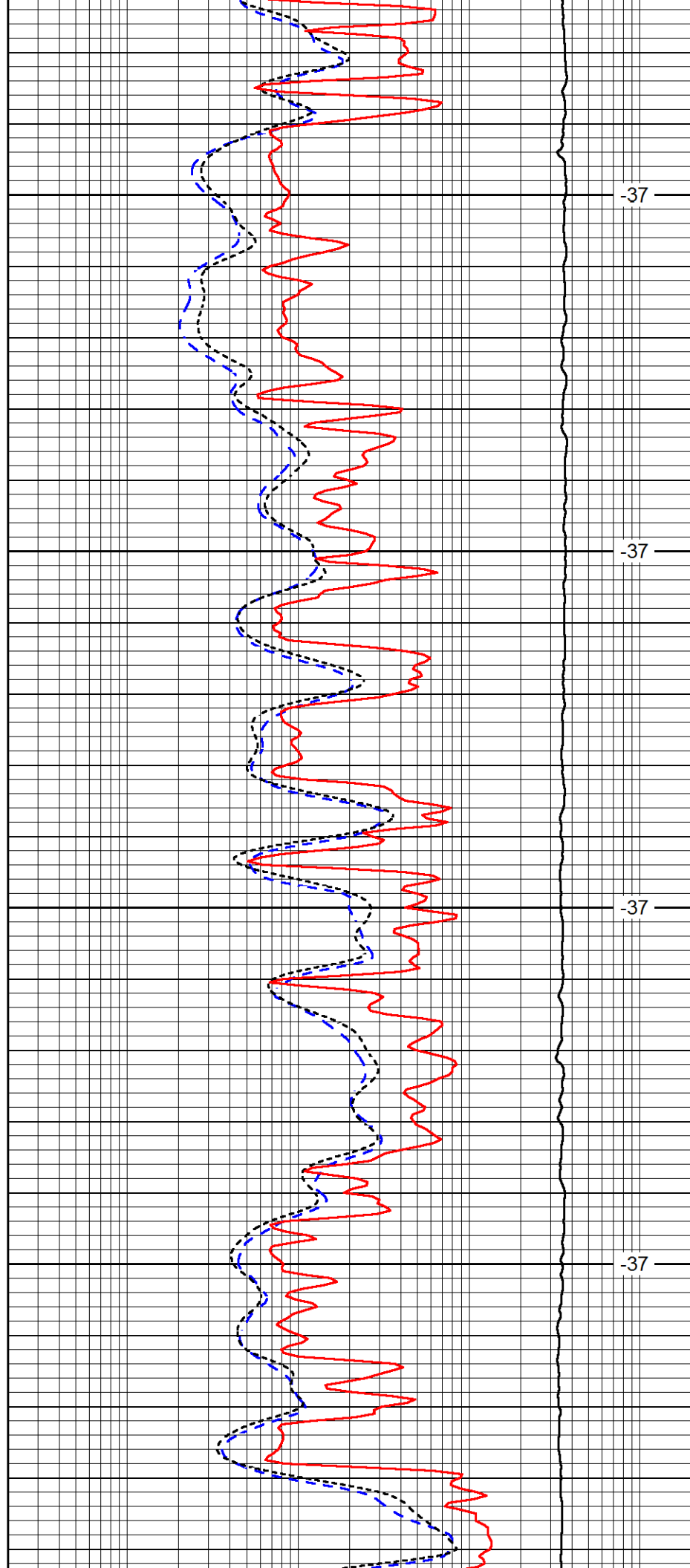


3950

4000

4050

4100

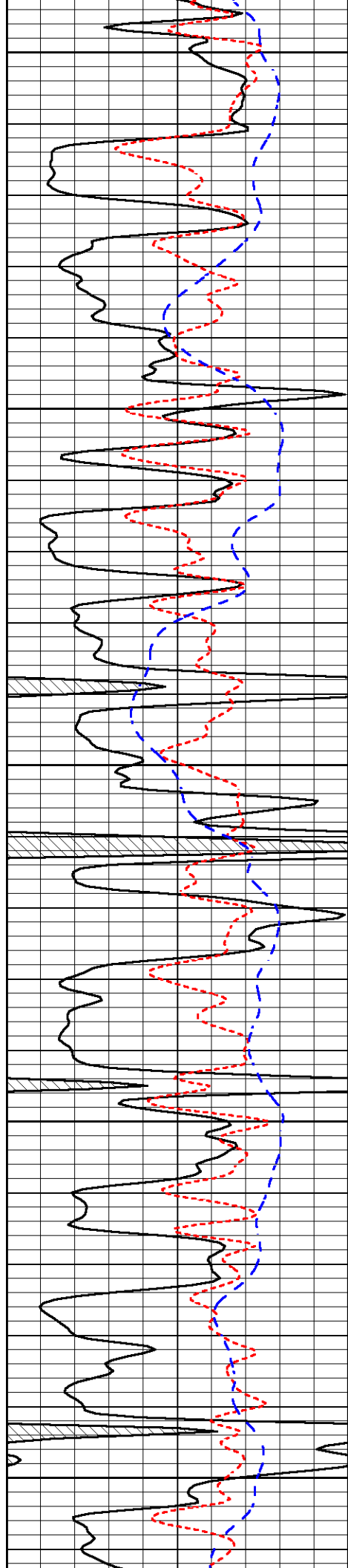


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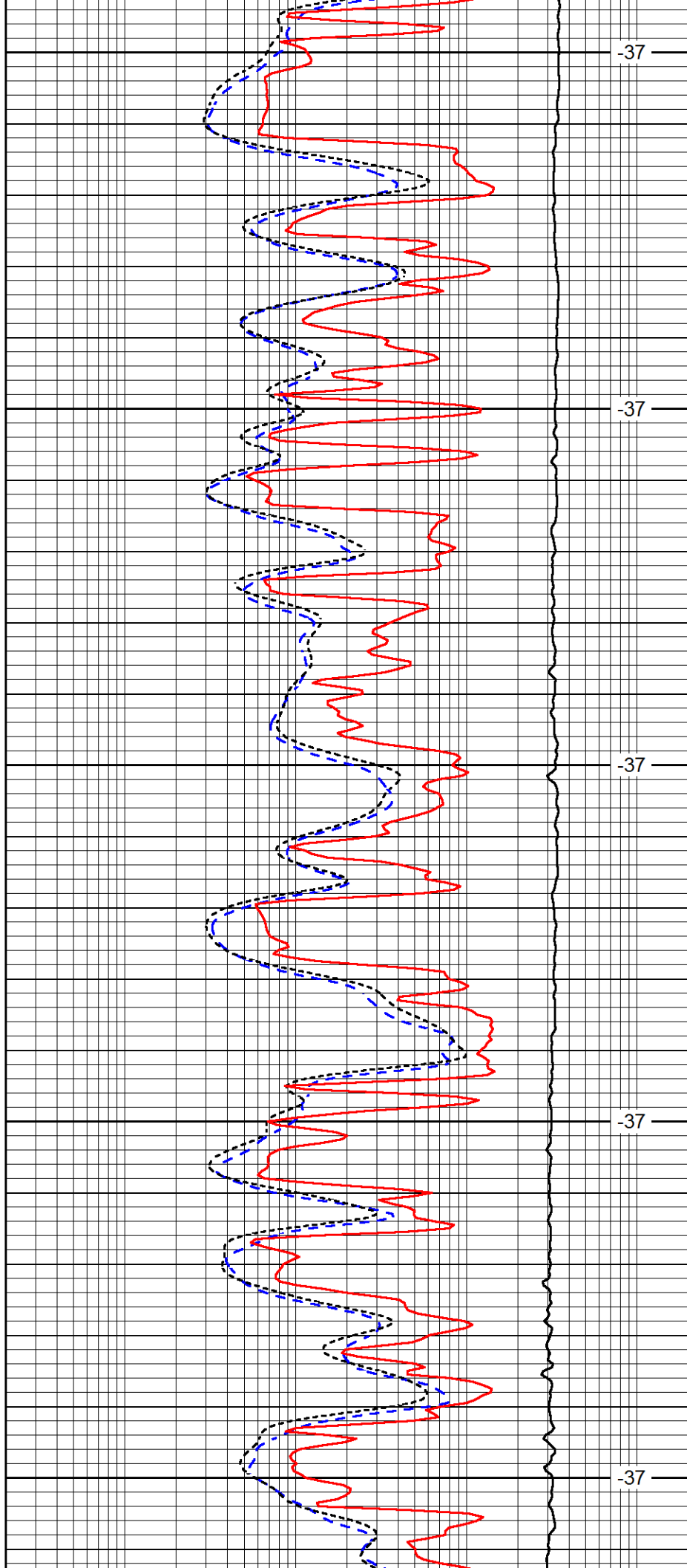
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4200

4250

4300

4350



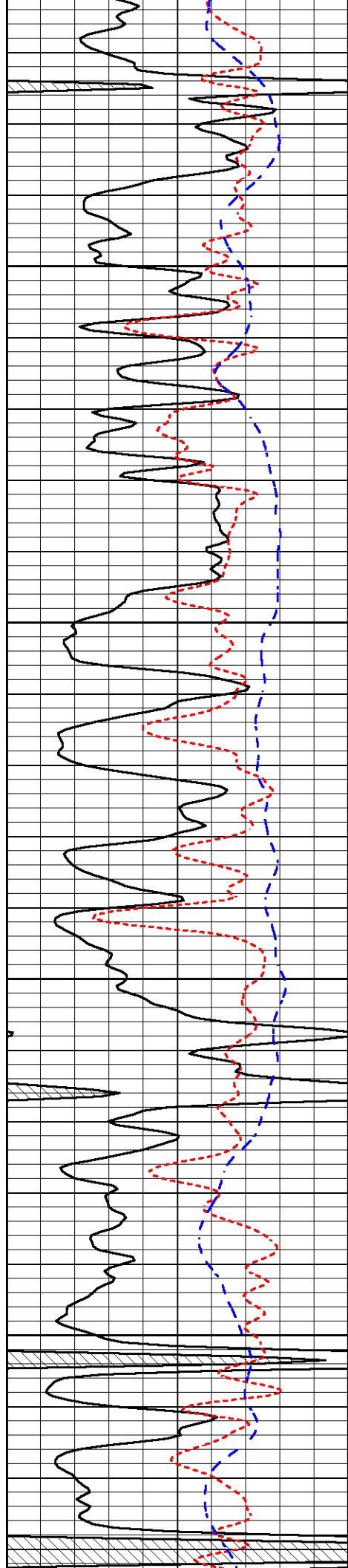
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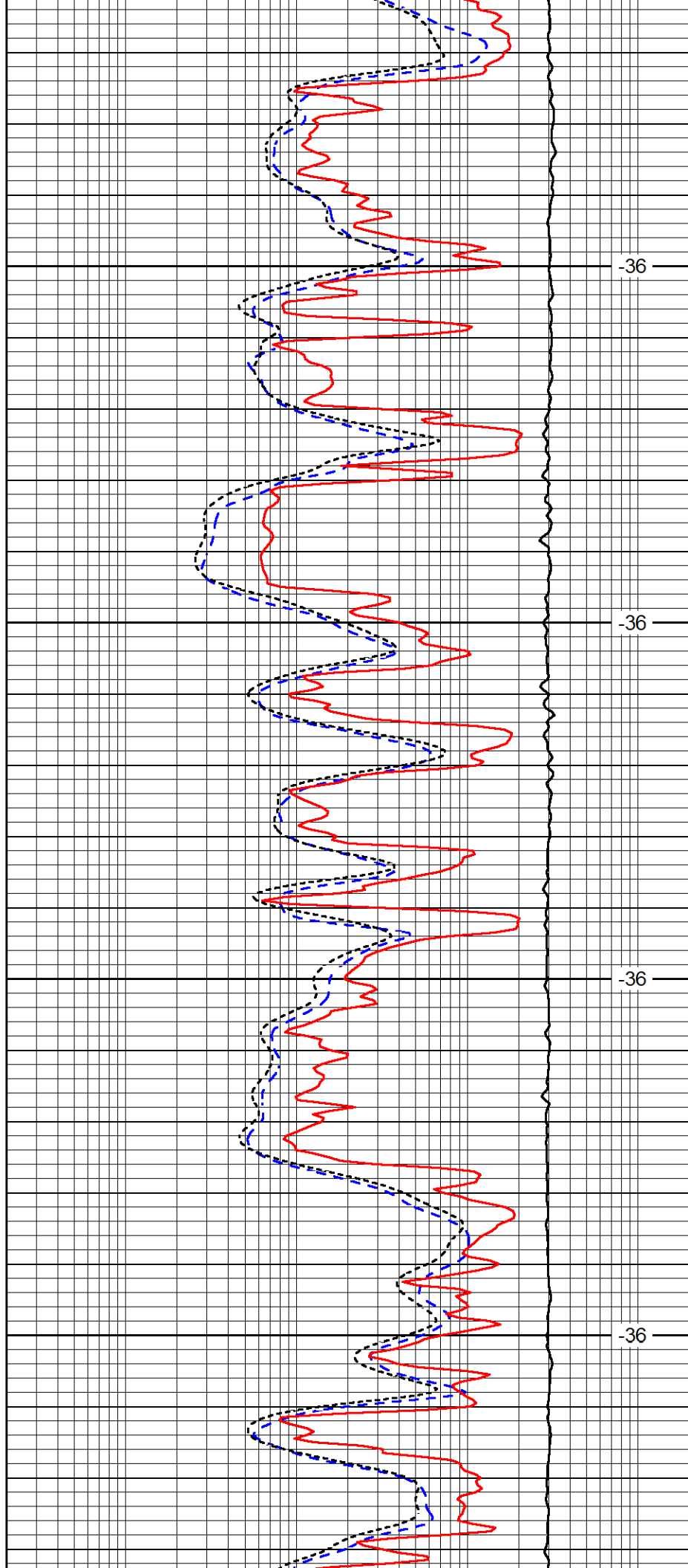


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4450

4500

4550

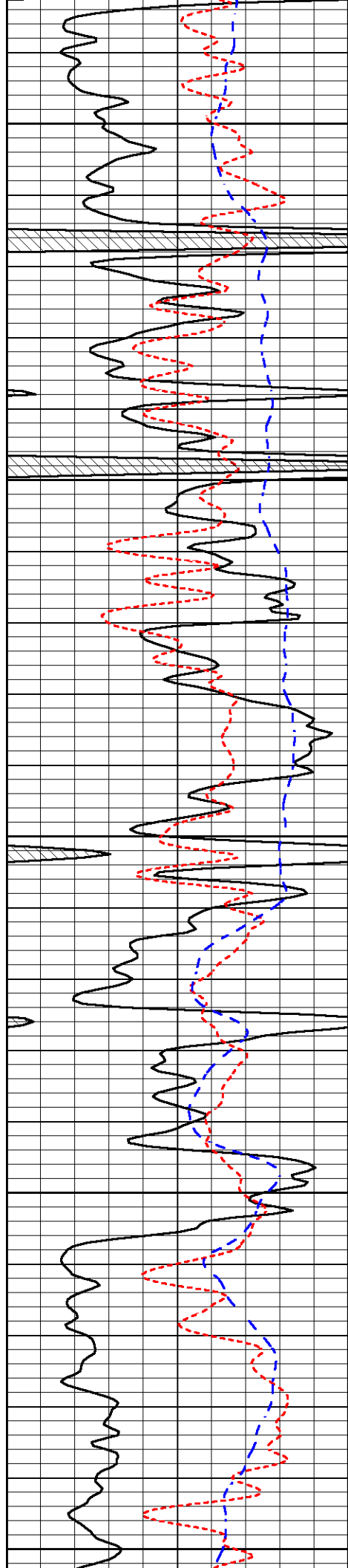


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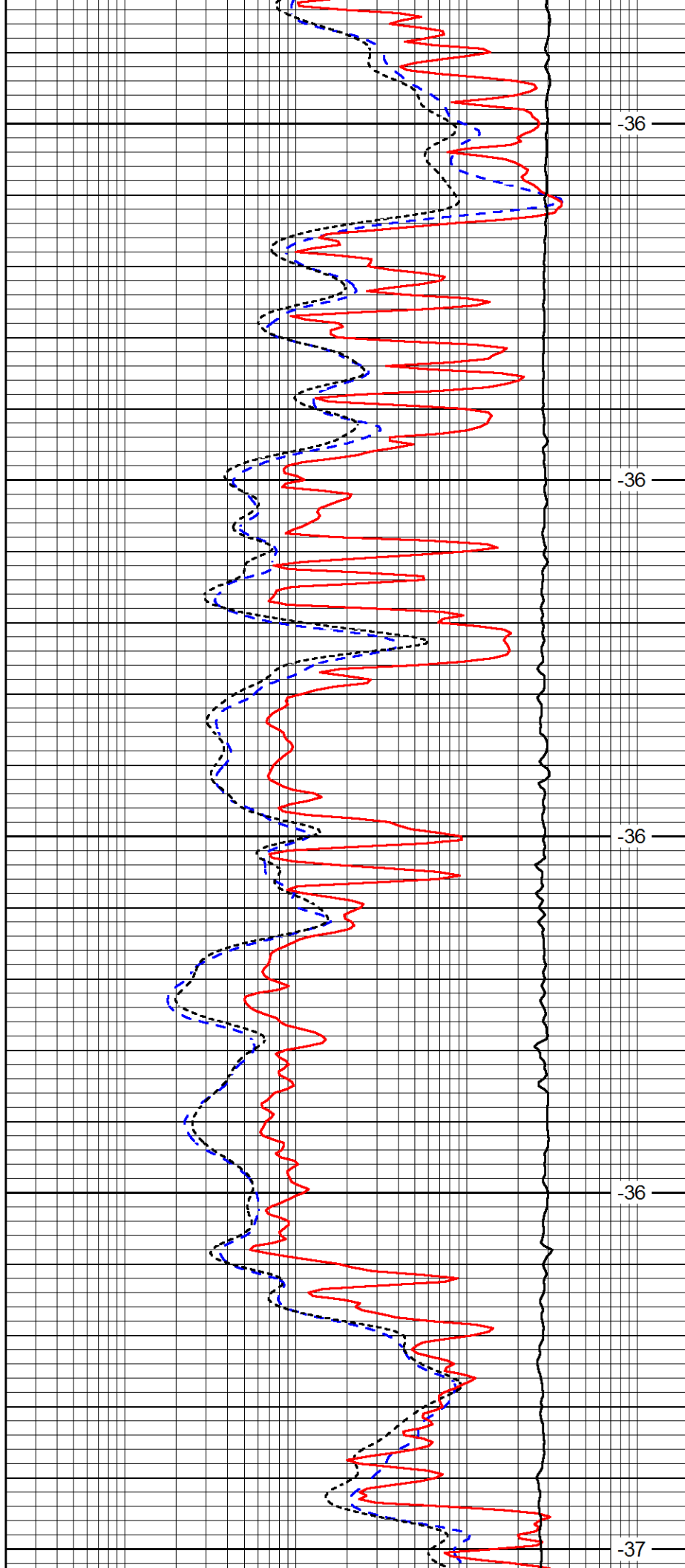
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4650

4700

4750

4800



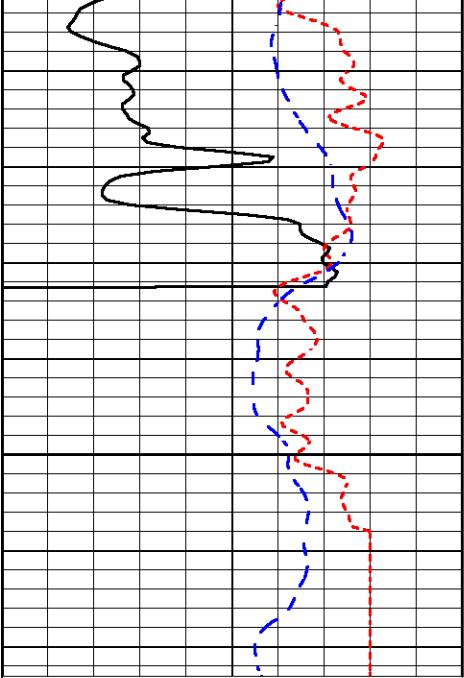
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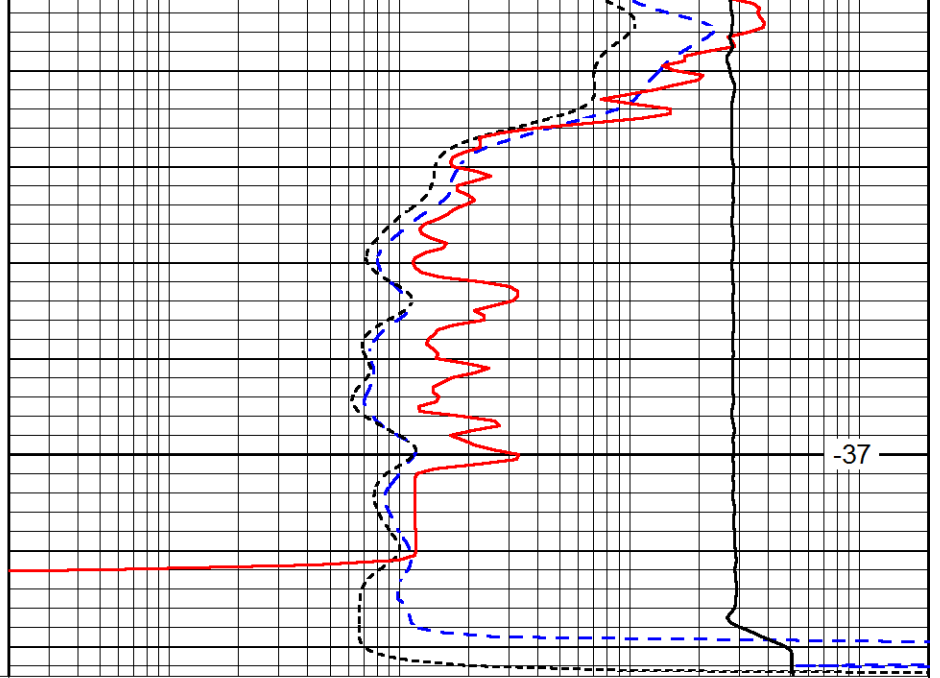
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4850



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-37

LSPD
(ft/min)