



DUAL INDUCTION LOG

Company CARMEN SCHMITT, INC.
Well ZIEGELMEIER NO. 1-2
Field WILDCAT
County THOMAS State KANSAS

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Well ZIEGELMEIER NO. 1-2
Field WILDCAT
County THOMAS
State KANSAS

Location: API #: 15-193-20,960-00-00
NE NW SE SW
1,226' FSL & 1,959' FWL
SEC 2 TWP 7S RGE 32W
Permanent Datum GROUND LEVEL Elevation 2994'
Log Measured From KELLY BUSHING
Drilling Measured From KELLY BUSHING
Other Services
CNL/CDL
MEL
Elevation
K.B. 2999'
D.F. N/A
G.L. 2994'

Date	11/11/2015		
Run Number	ONE		
Depth Driller	4576'		
Depth Logger	4576'		
Bottom Logged Interval	4575'		
Top Log Interval	200'		
Casing Driller	8.625" @ 248'		
Casing Logger	248'		
Bit Size	7.875"		
Type Fluid in Hole	CHEMICAL		
Salinity, ppm CL	2800		
Density / Viscosity	9.3 54		
pH / Fluid Loss	10.0 7.2		
Source of Sample	Flowline		
Rm @ Meas. Temp	1.22 @ 58		
Rmt @ Meas. Temp	.92 @ 58		
Rmc @ Meas. Temp	1.65 @ 58		
Source of Rmt / Rmc	Charts		
Rm @ BHT	.58 @ 122		
Operating Rig Time	3 1/2 HOURS		
Max Rec. Temp. F	122		
Equipment Number	108		
Location	Hays		
Recorded By	J. LONG		
Witnessed By	BRAD RINE		

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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.

GEM, 2 NORTH TO X ROAD, 2 EAST TO DEAD END, 1/4 NORTH, EAST INTO

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

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

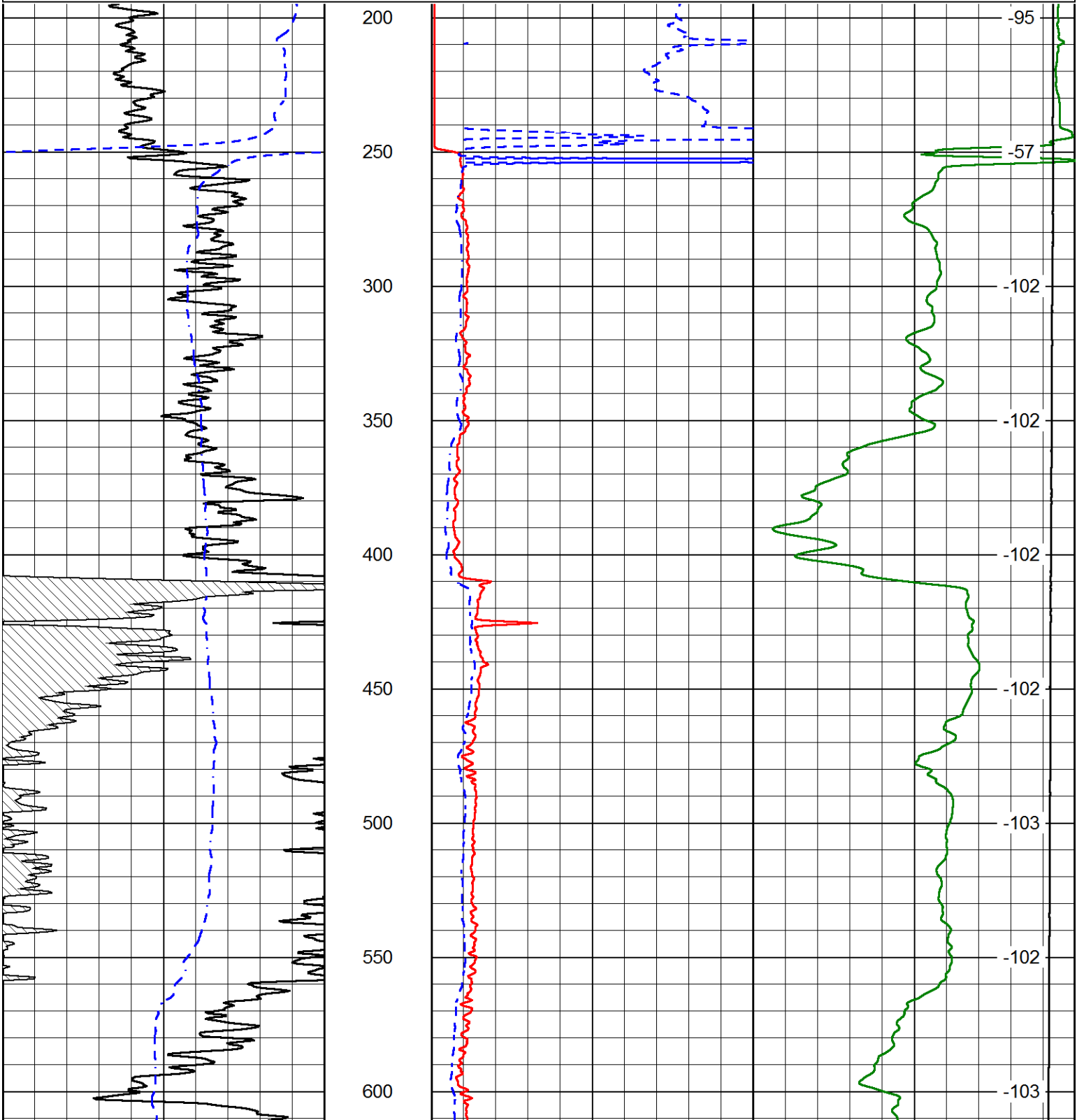
Your Pioneer Energy Services Crew

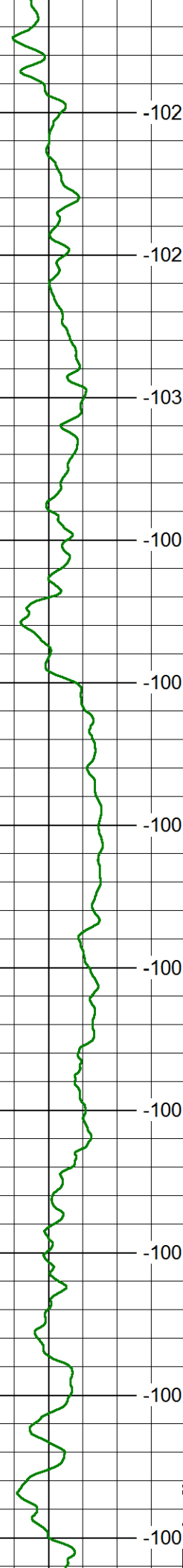
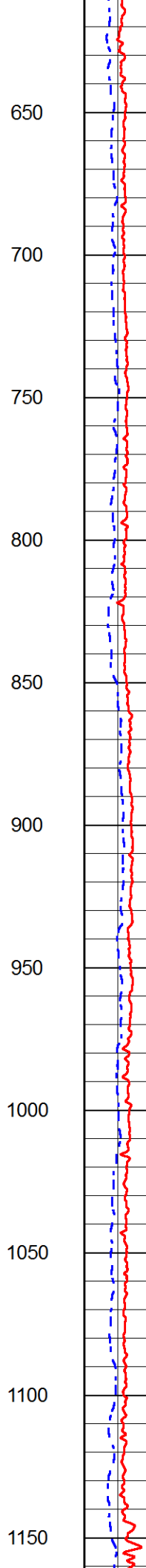
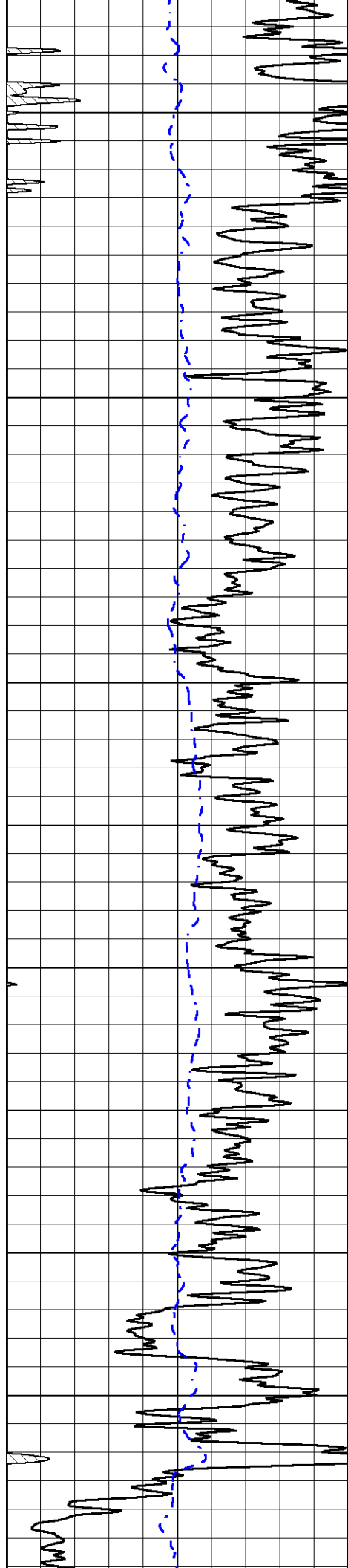
Engineer: J. LONG
Operator:
Operator:
Operator:

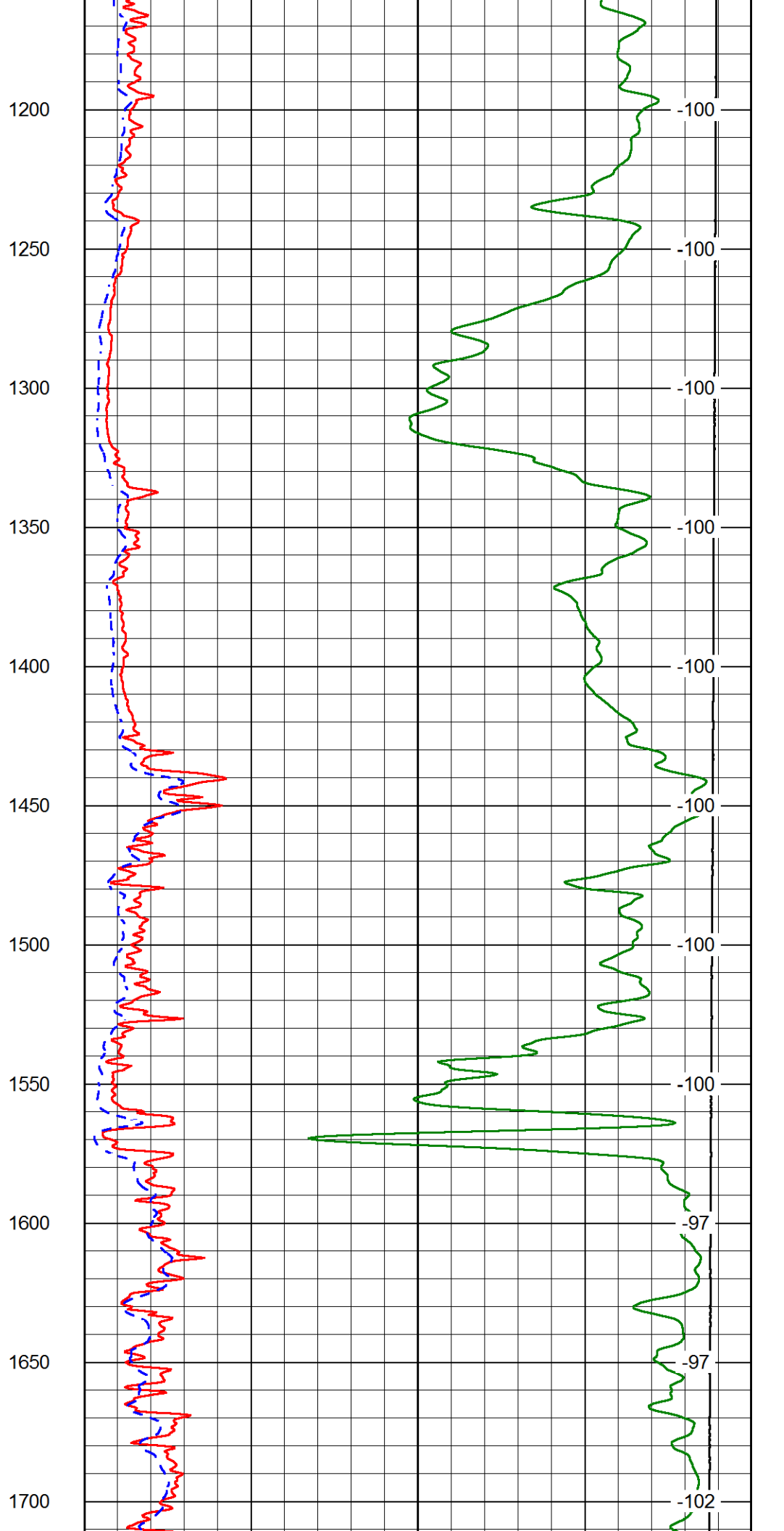
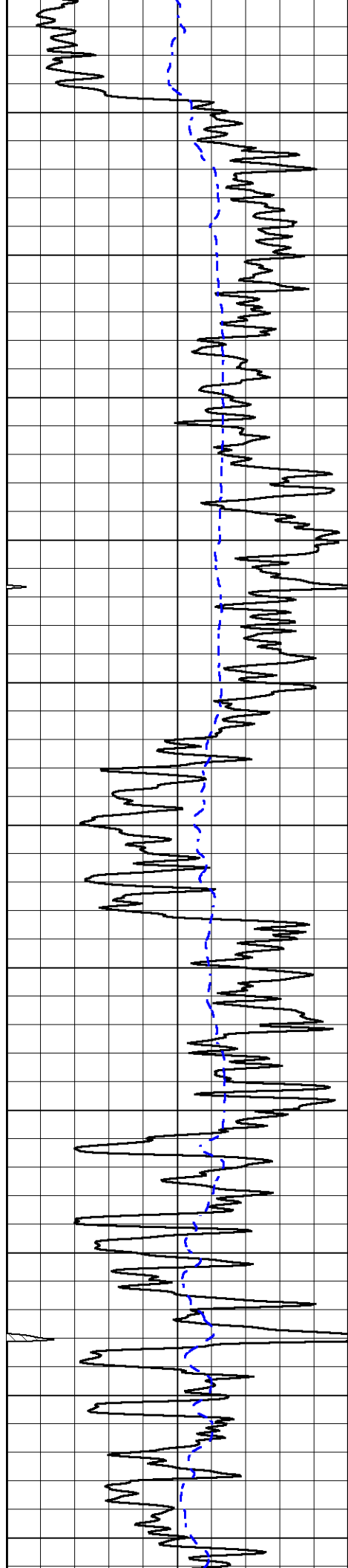
This Log Record Was Witnessed By

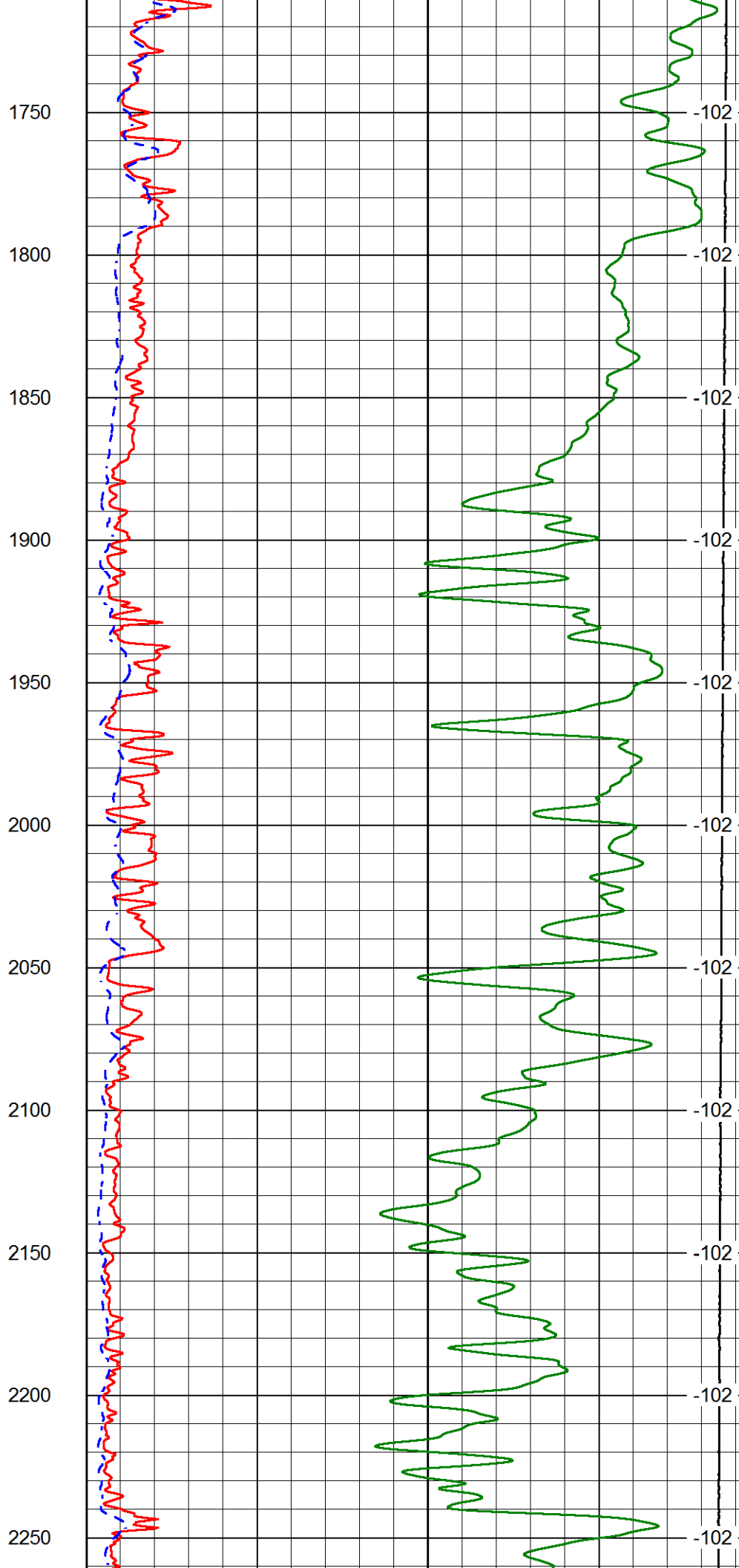
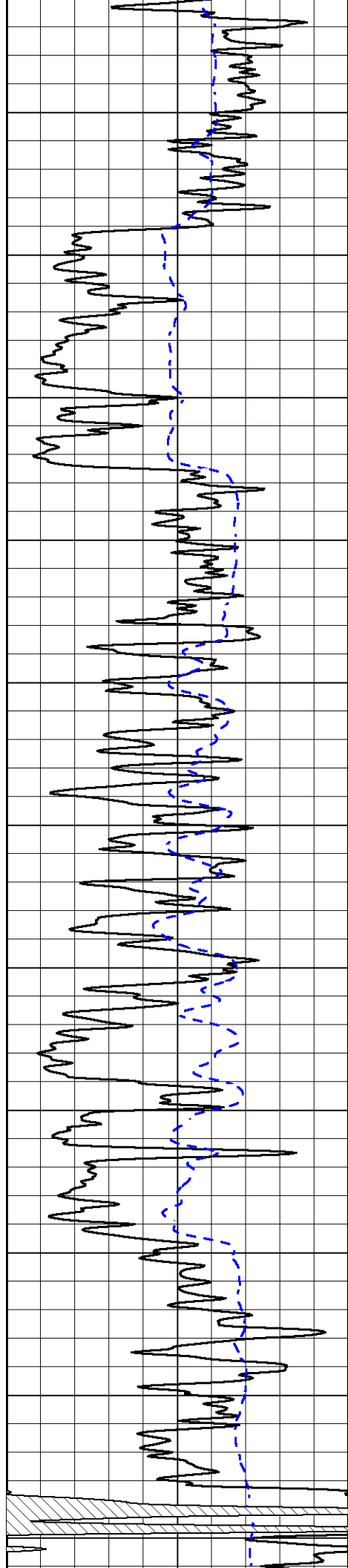
Primary Witness: BRAD RINE
Secondary Witness:
Secondary Witness:
Secondary Witness:

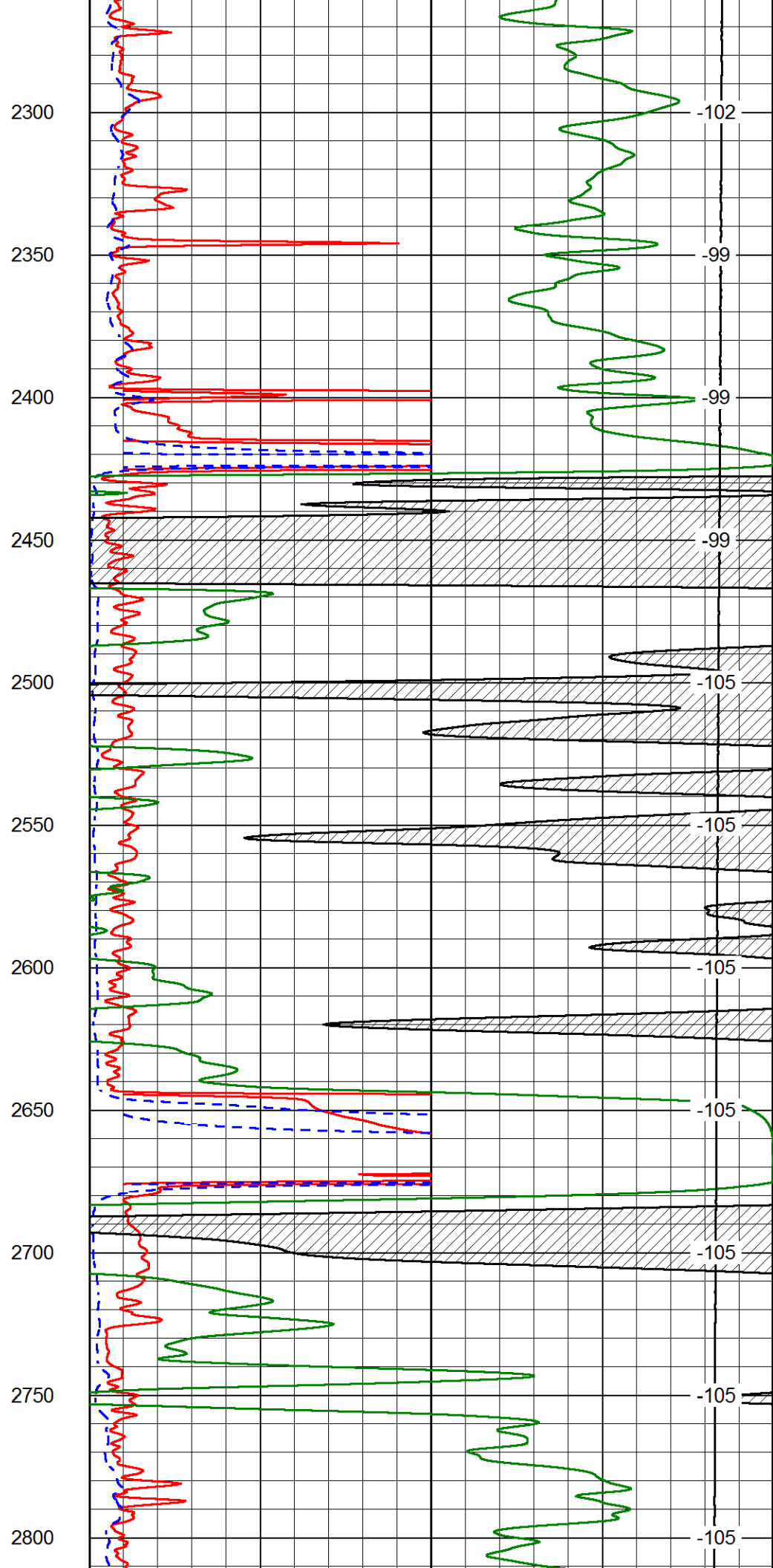
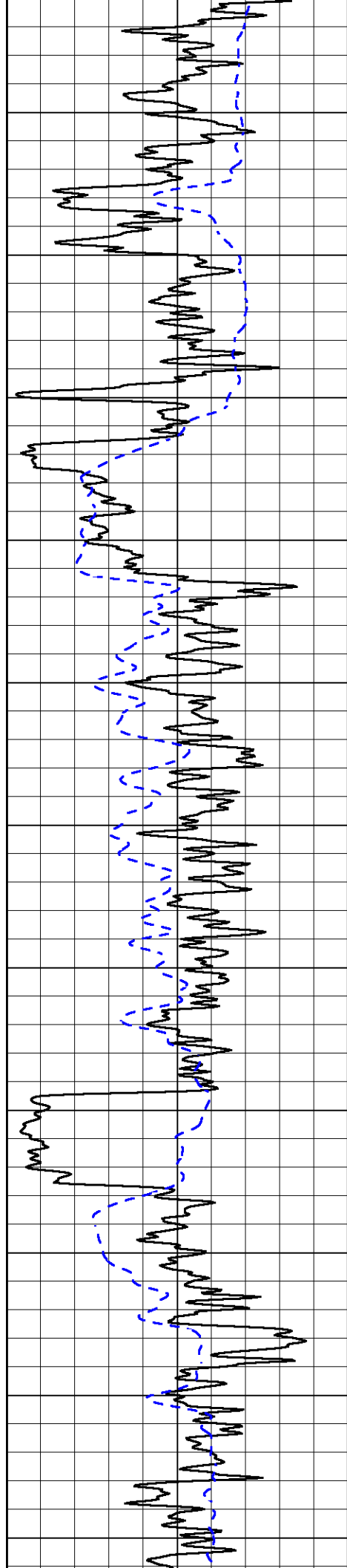
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-200	SP (mV)	0	15000	Line Tension (lb)	0
			0	Shallow Resistivity (Ohm-m)	50
			0	Deep Resistivity (Ohm-m)	50
			Shallow Resistivity		LSPD (ft/min)
			50	(Ohm-m)	500
			50	Deep Resistivity (Ohm-m)	500

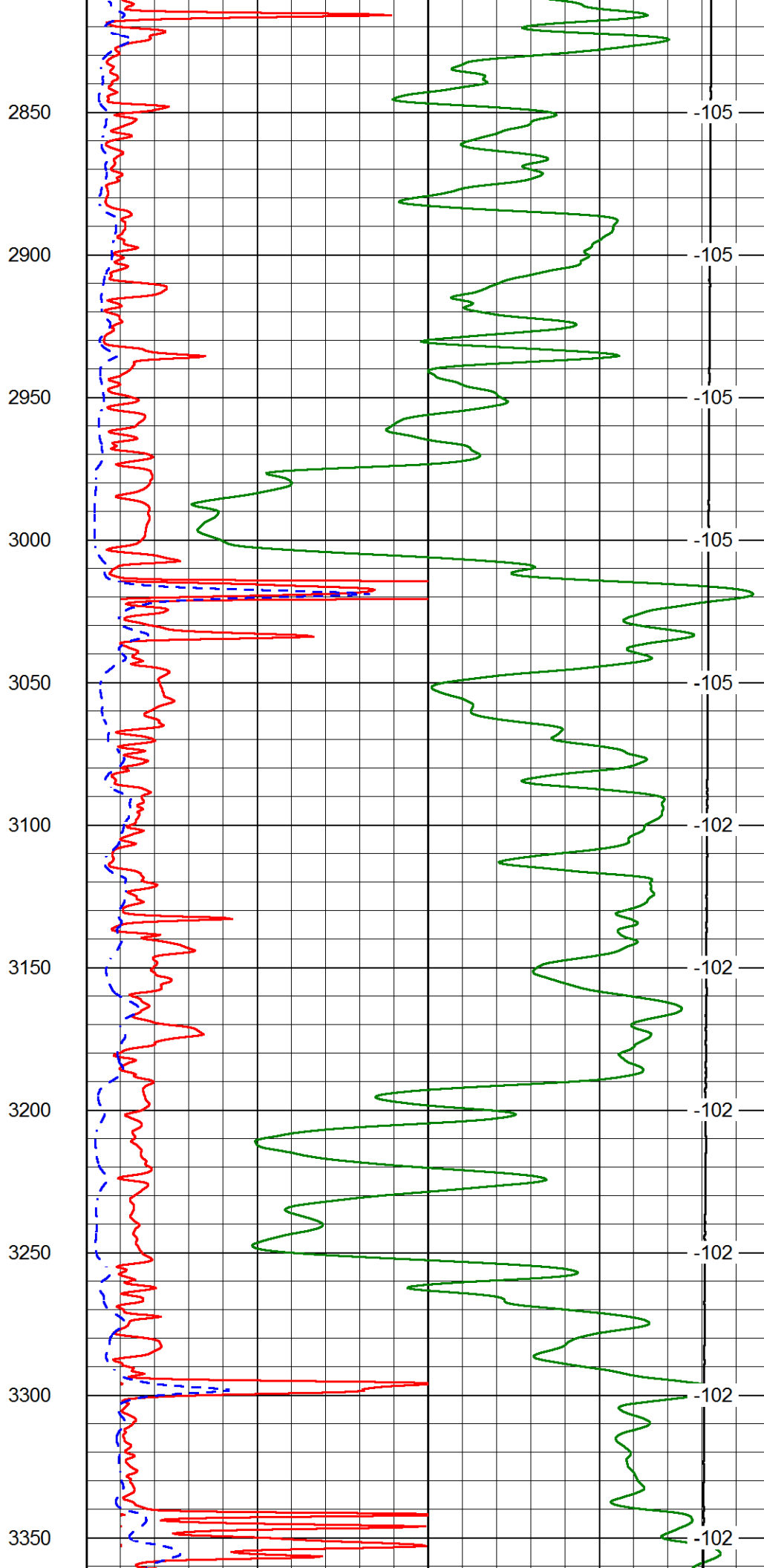
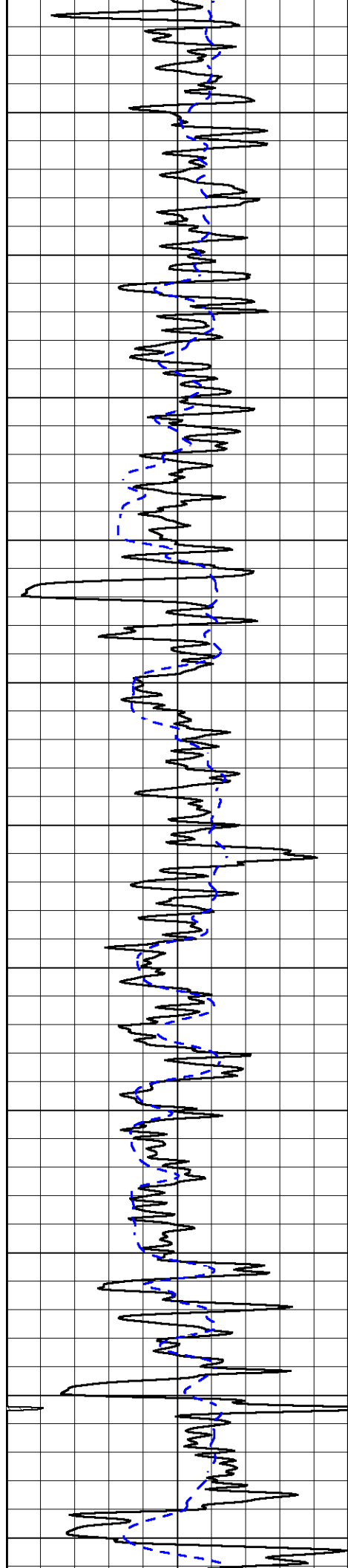


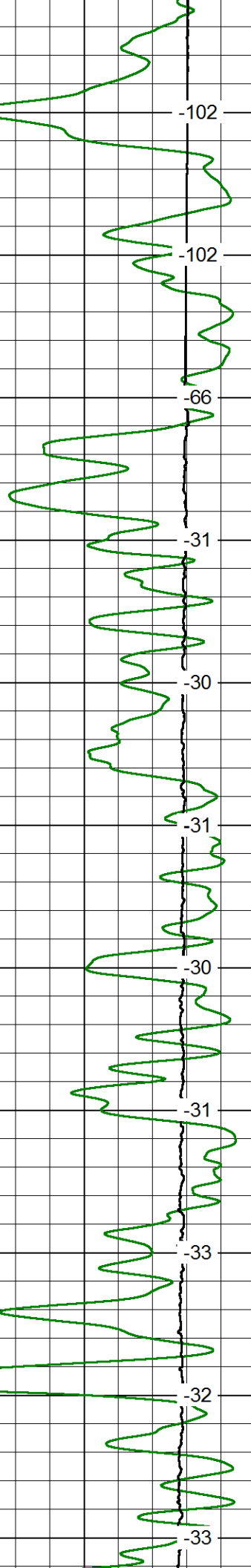
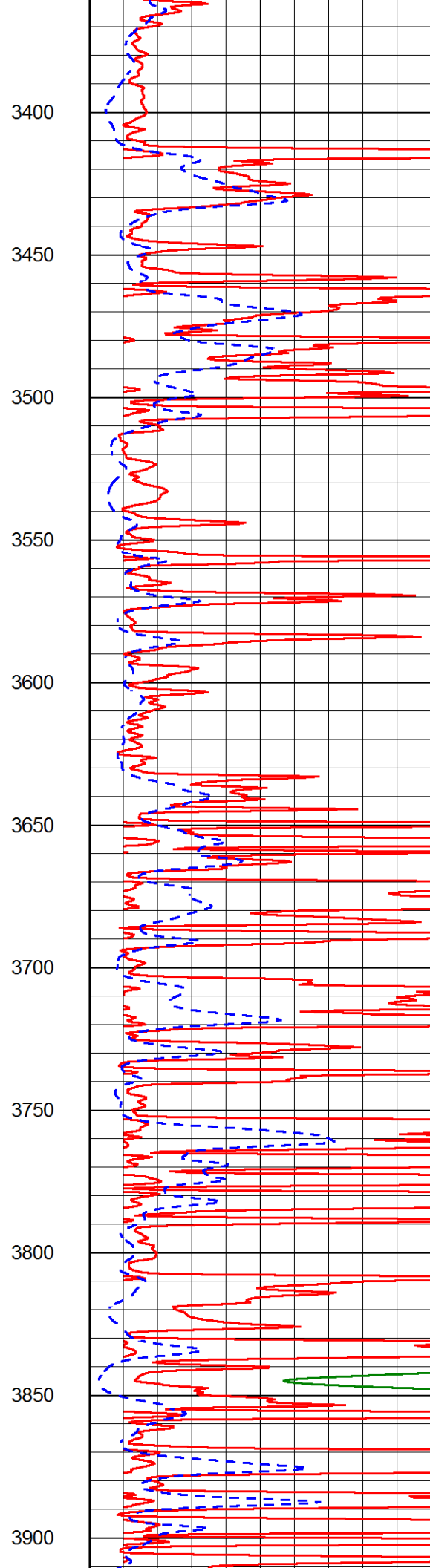
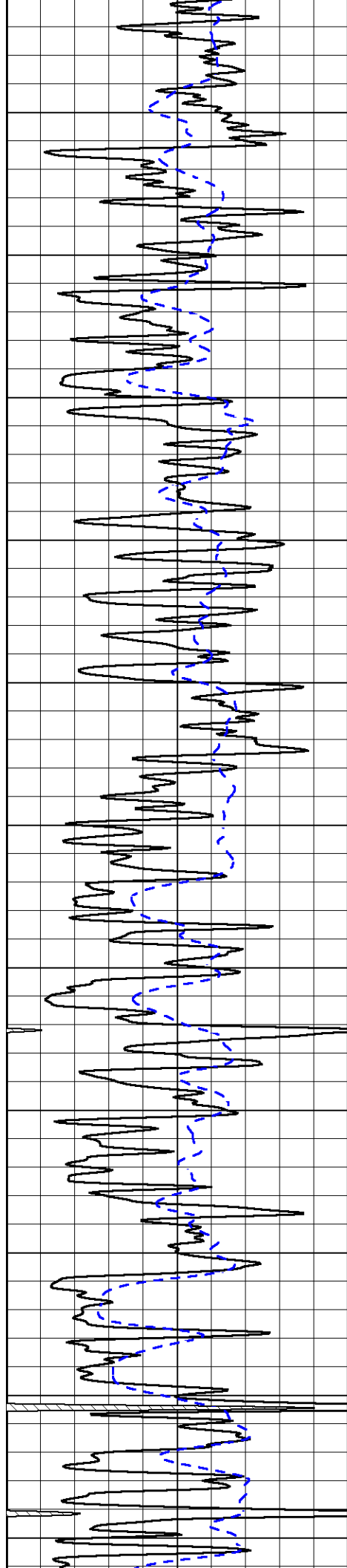


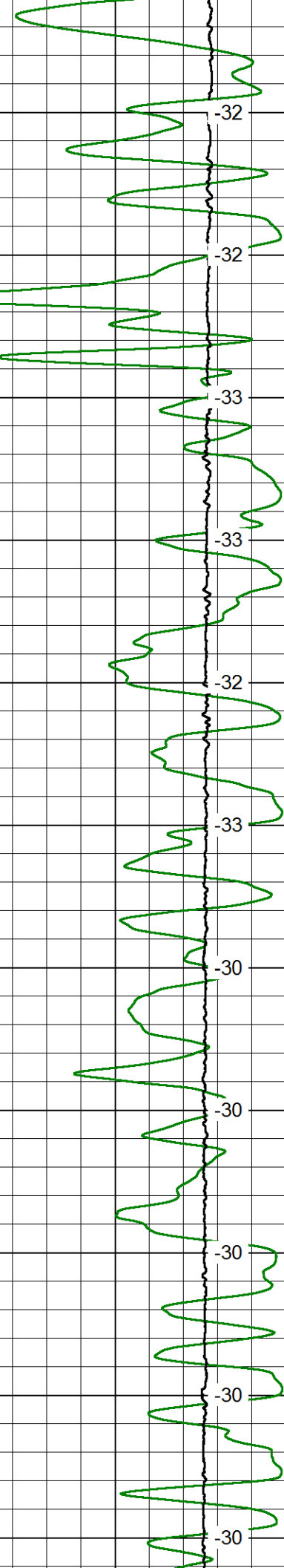
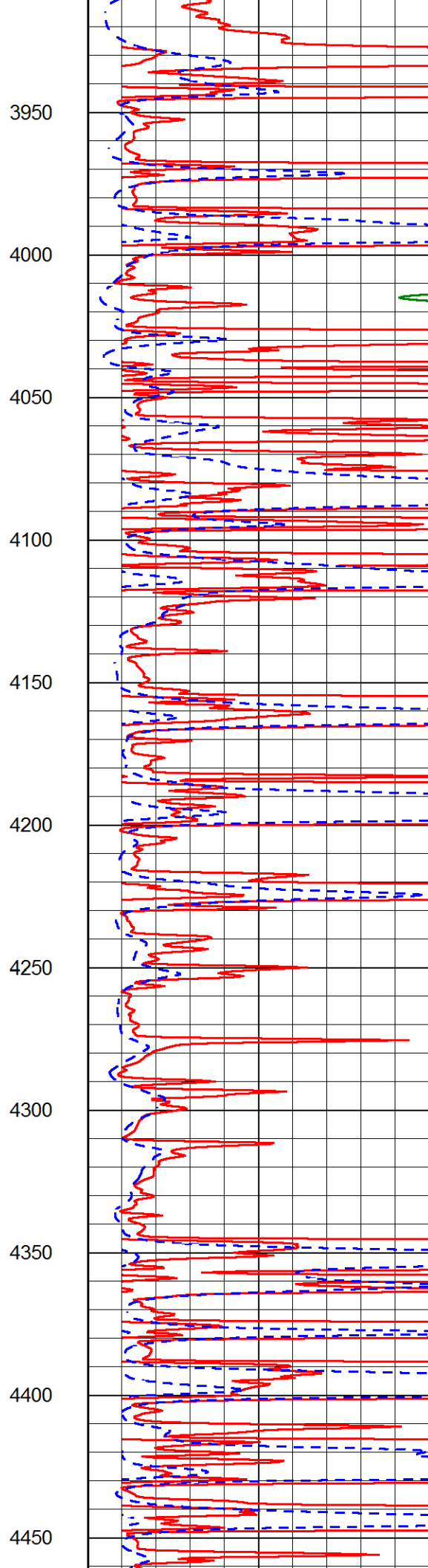
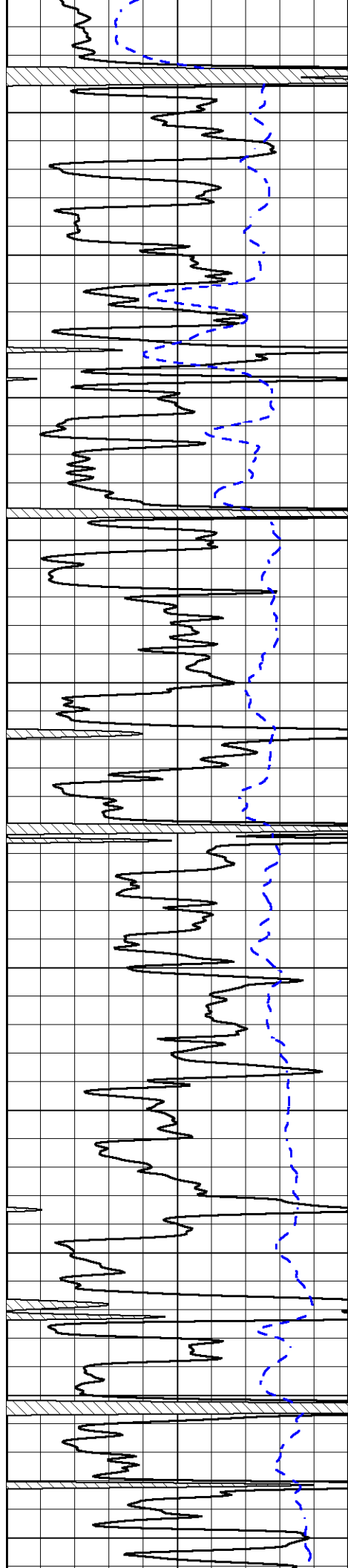


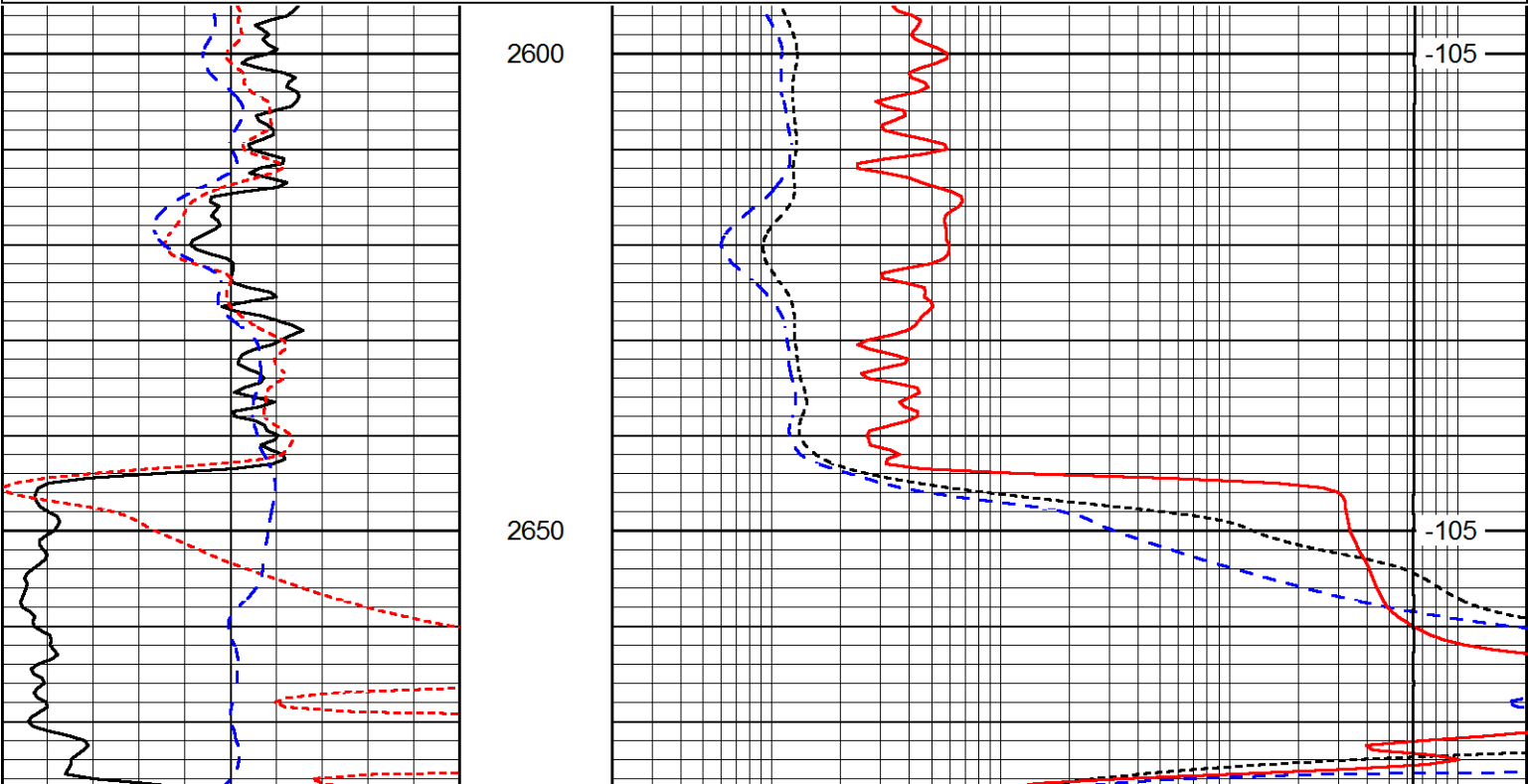
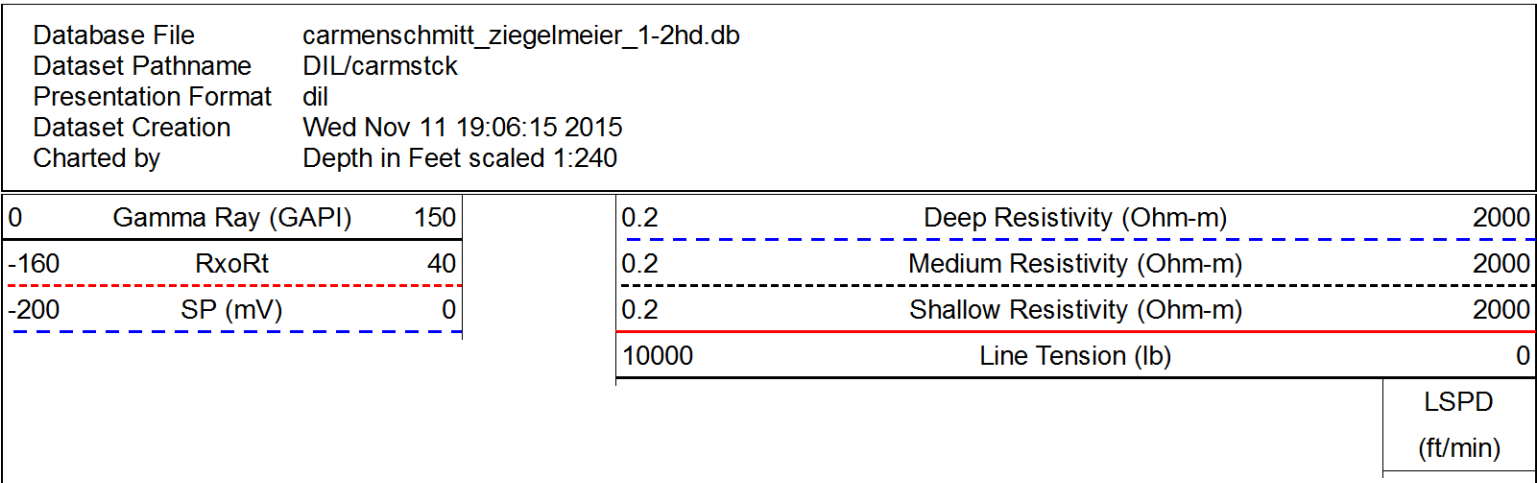
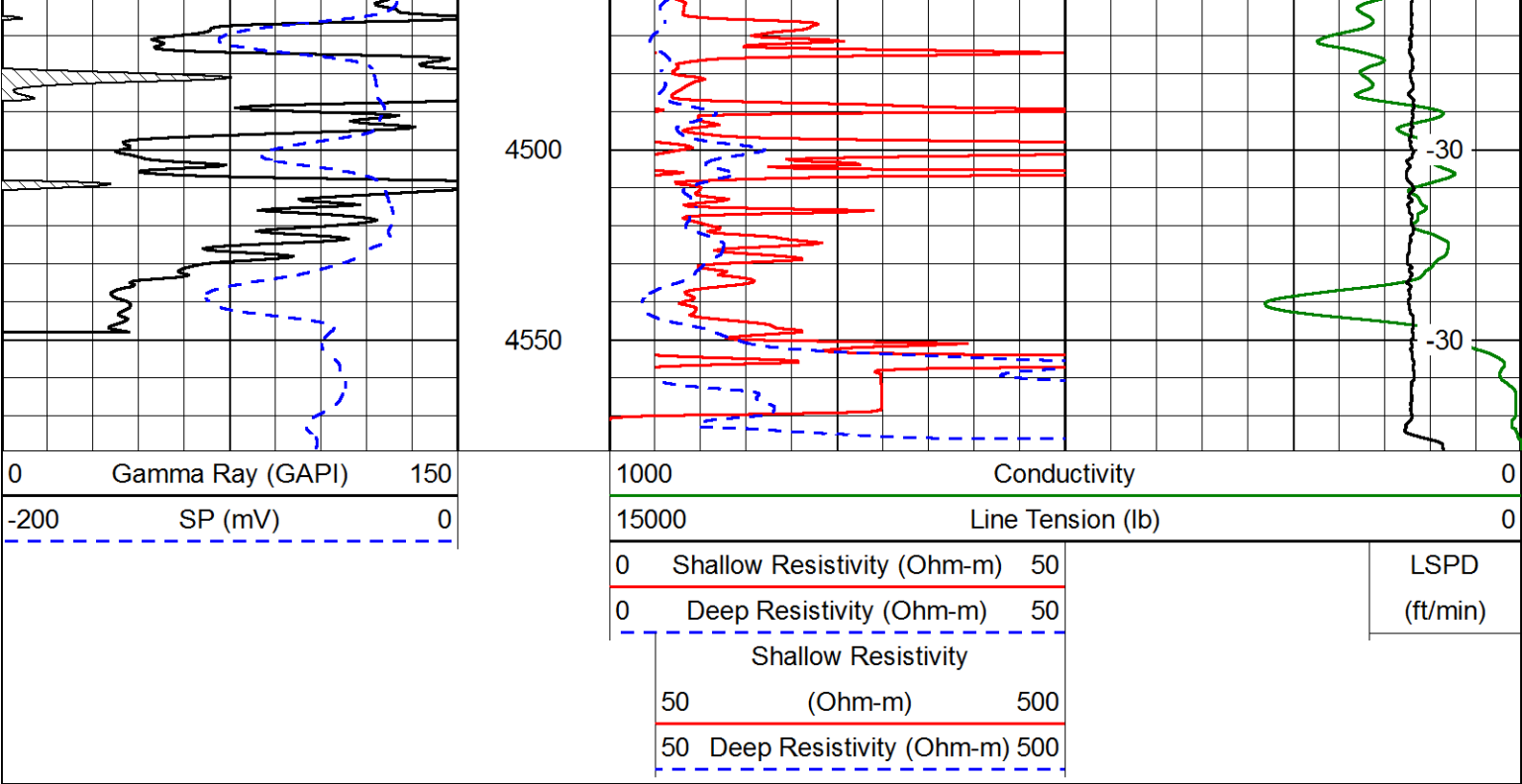


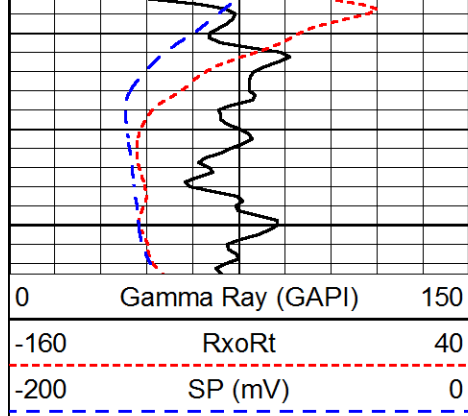




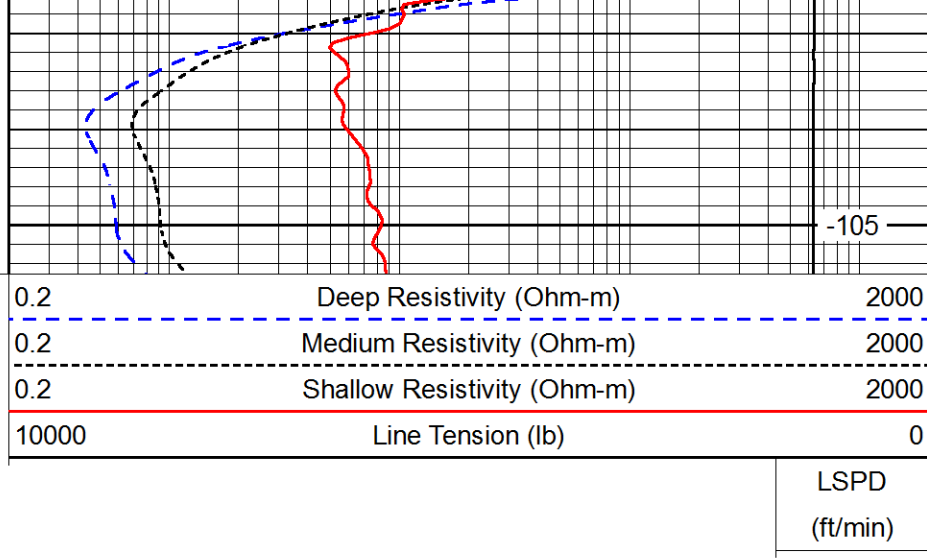




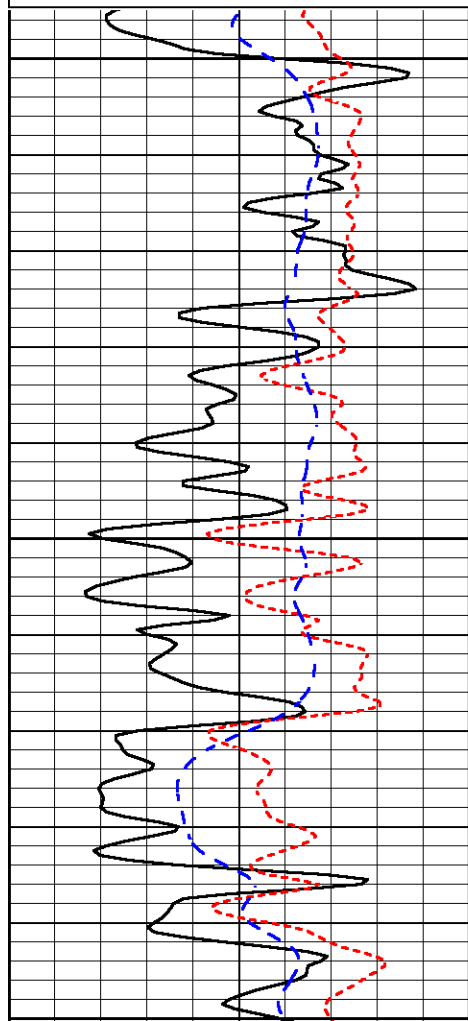
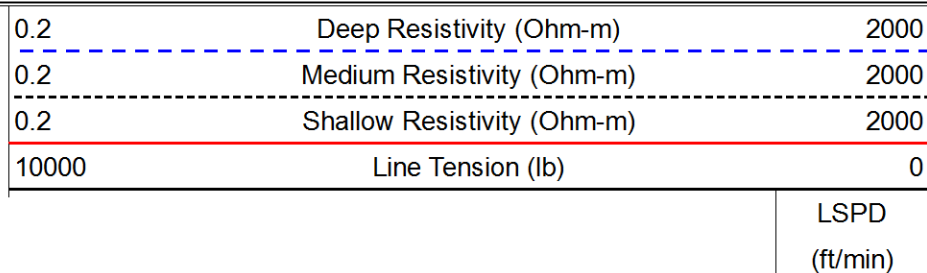
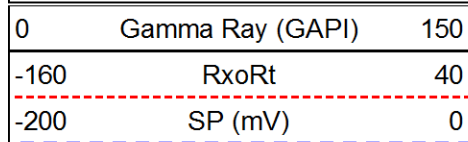




2700



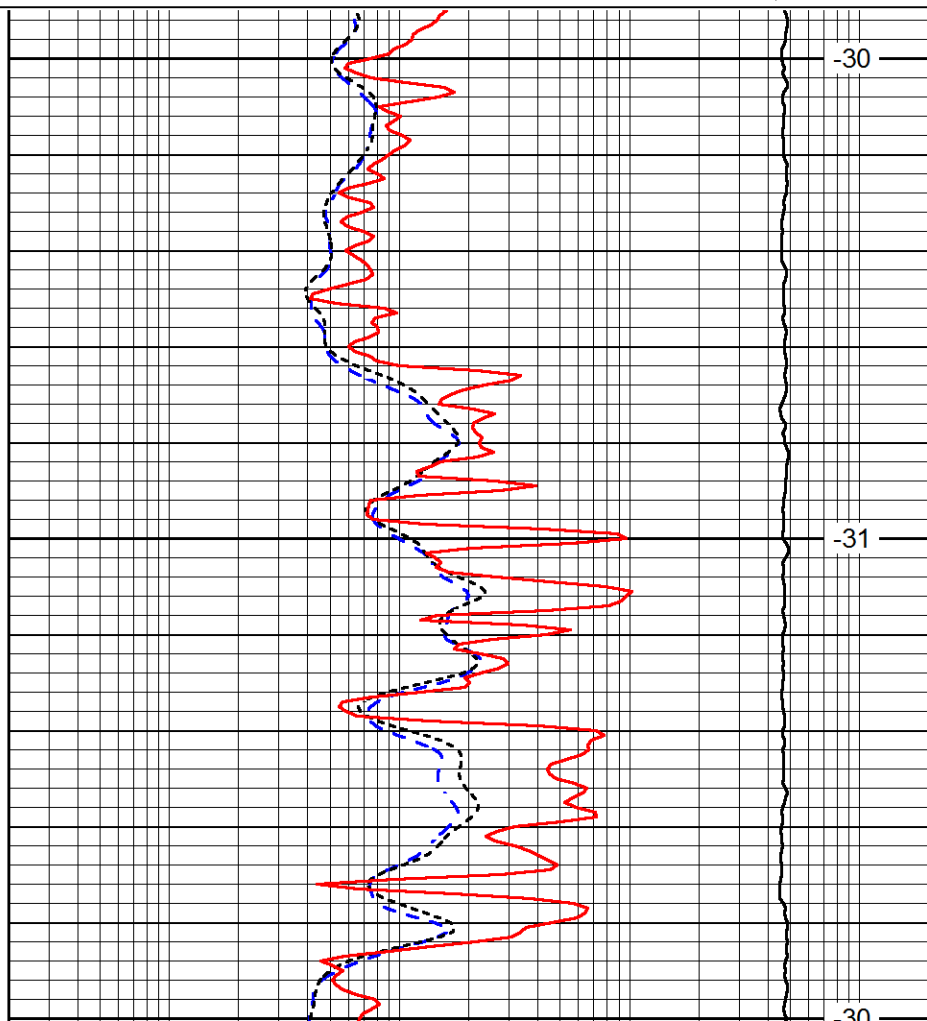
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 Presentation Format: dil
 Dataset Creation: Wed Nov 11 19:06:15 2015
 Charted by: Depth in Feet scaled 1:240

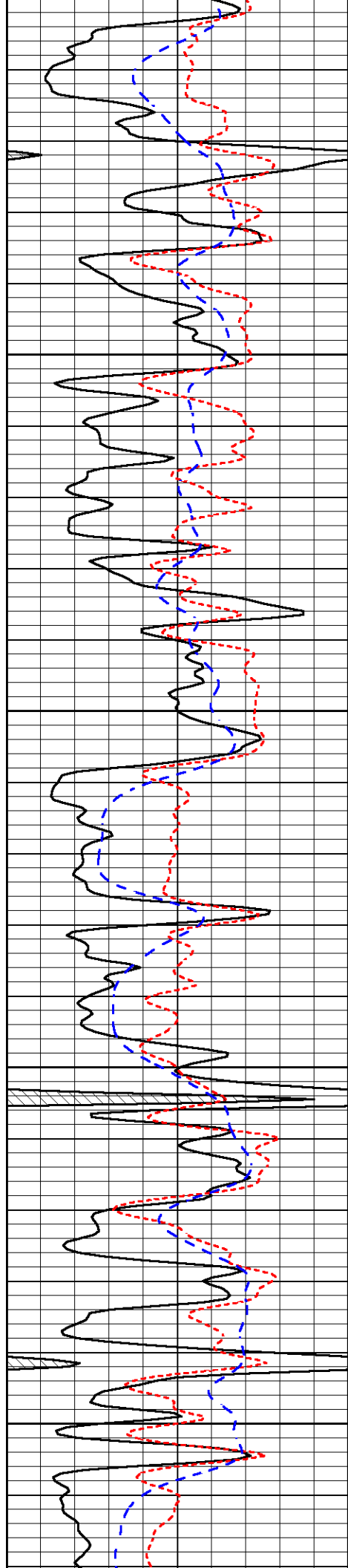


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3650

3700



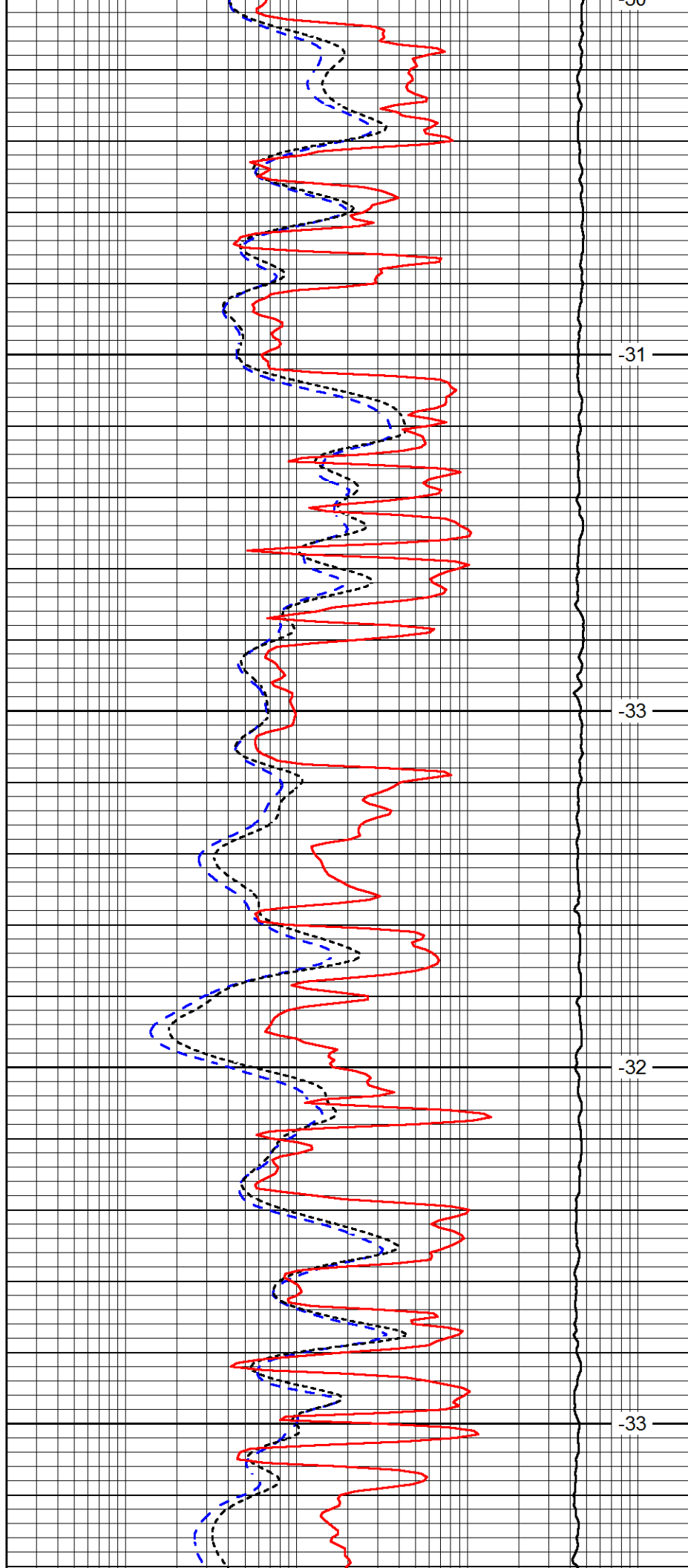


3750

3800

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3900

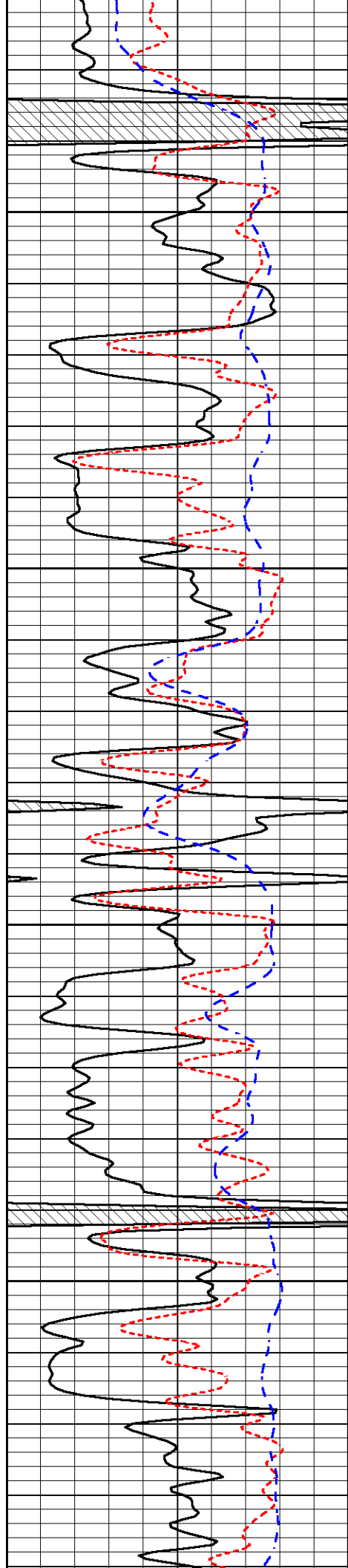


-31

-33

-32

-33

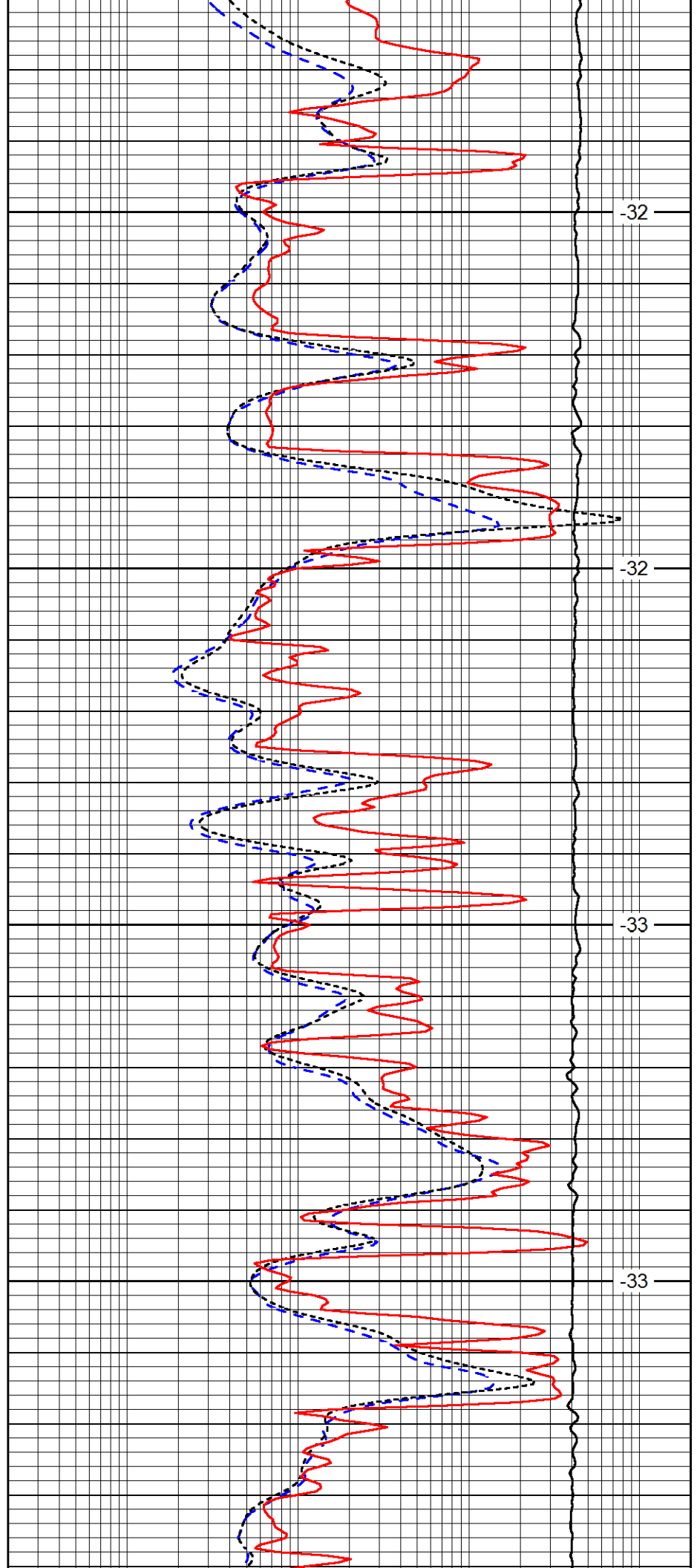


3950

4000

4050

4100

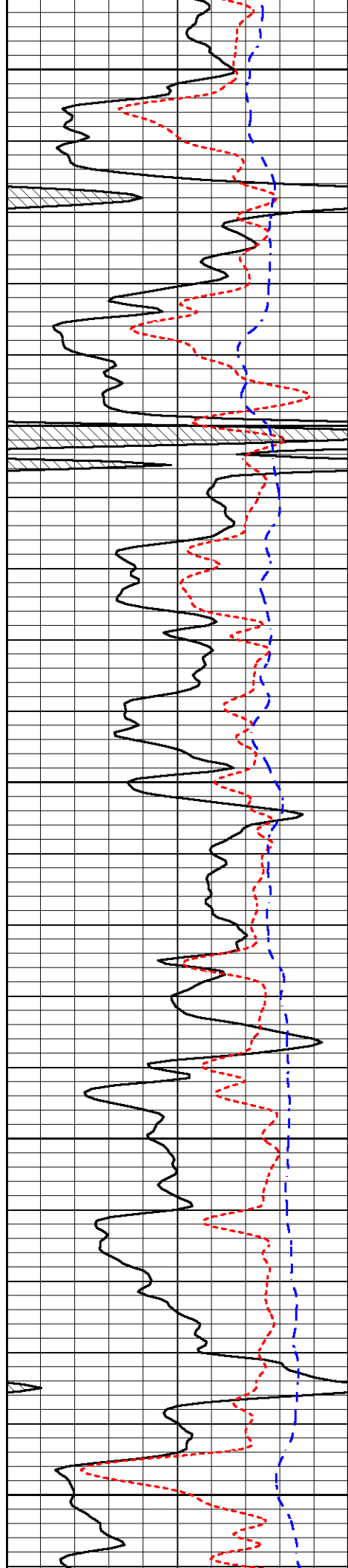


-32

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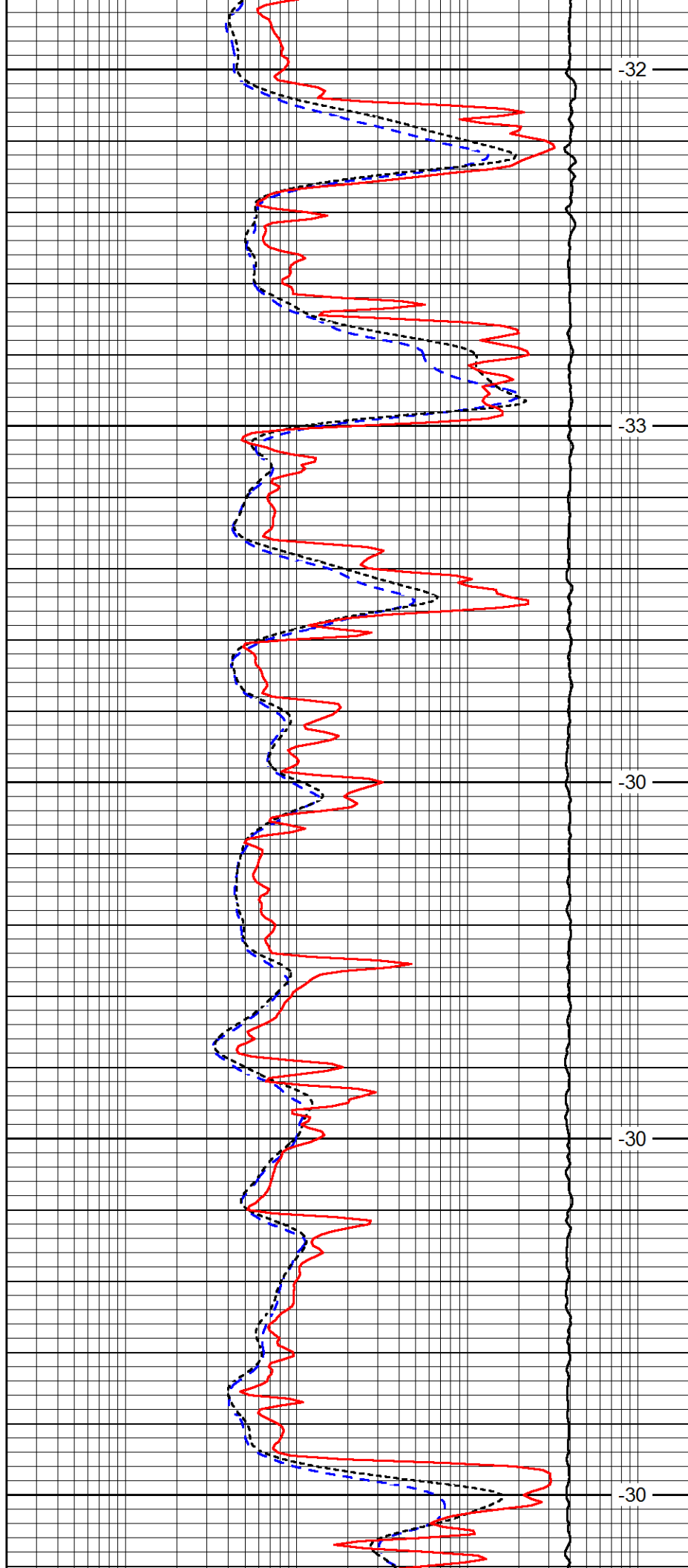
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4200

4250

4300

4350



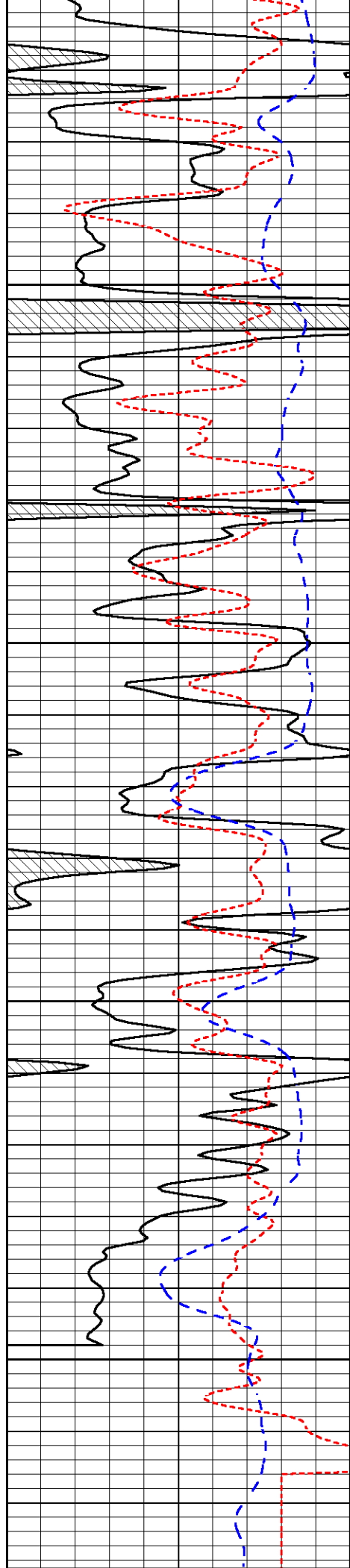
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-33

-30

-30

-30

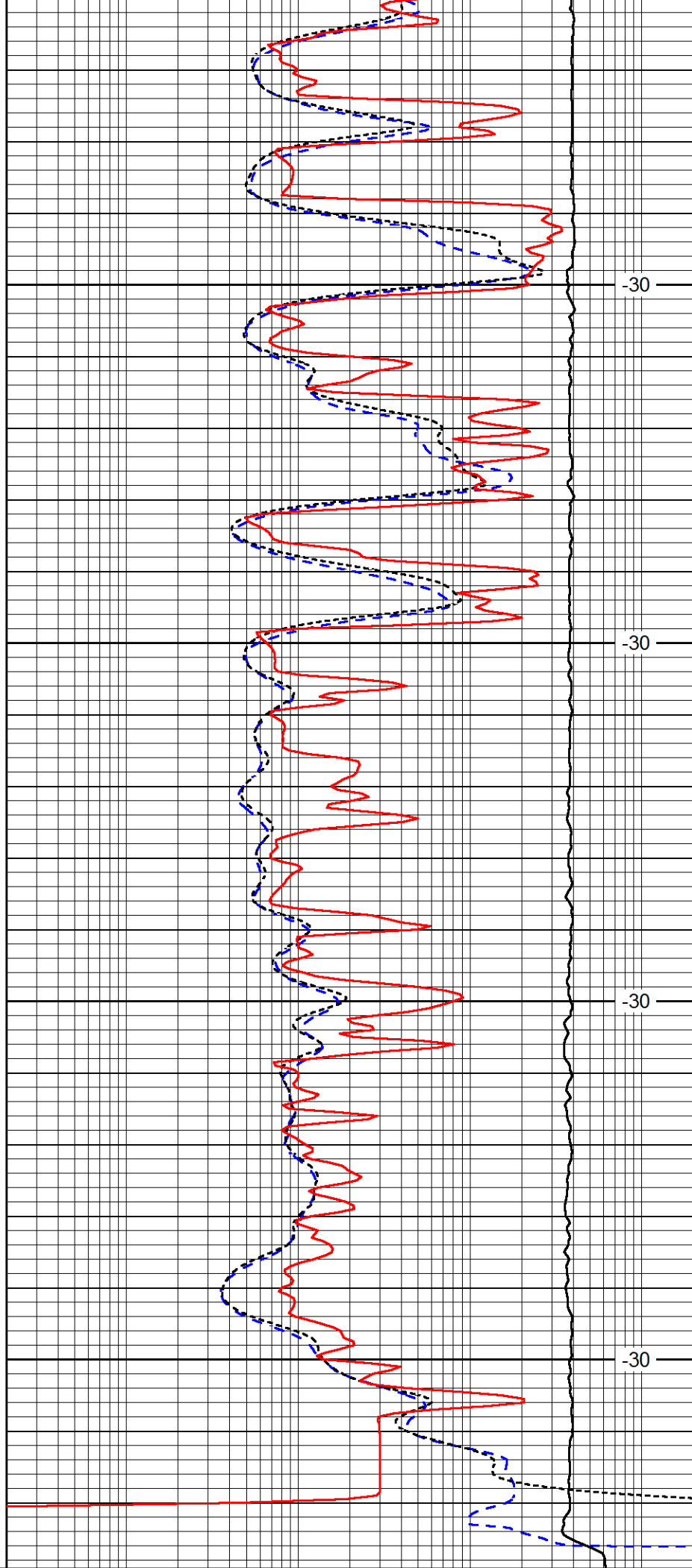


4400

4450

4500

4550



-30

-30

-30

-30

0	Gamma Ray (GAPI)	150
-160	RxoRt	40
-200	SP (mV)	0

0.2	Deep Resistivity (Ohm-m)	2000
0.2	Medium Resistivity (Ohm-m)	2000
0.2	Shallow Resistivity (Ohm-m)	2000
10000	Line Tension (lb)	0
		LSPD (ft/min)