



Pioneer Energy Services

Dual Induction Log

15-065-23,969-00-00

API No.

Company **H&C Oil Operating, Inc.**

Well **Benoit #22-1**

Field **Unknown**

County **Graham** State

Kansas

Location **1100' FSL & 950' FEL**

Other Services
CNL/CDL
MEL

Sec: **22** Twp: **8S** Rge: **21W**

Permanent Datum **Ground Level** Elevation **2058**
Log Measured From **Kelly Bushing** **7** Ft. Above Perm. Datum
Drilling Measured From **Kelly Bushing**

Elevation
K.B. 2065
D.F. 2058
G.L. 2058

Date	9/3/2013	
Run Number	One	
Depth Driller	3674	
Depth Logger	3670	
Bottom Logged Interval	3669	
Top Log Interval	200	
Casing Driller	8.625 @ 222	
Casing Logger	222	
Bit Size	7.875	
Type Fluid in Hole	Chemical	
Salinity, ppm CL	1,200	
Density / Viscosity	9.3 57	
pH / Fluid Loss	10.5 7.2	
Source of Sample	Flowline	
Rm @ Meas. Temp	2.0 @ 74	
Rmf @ Meas. Temp	1.5 @ 74	
Rmc @ Meas. Temp	2.7 @ 74	
Source of Rmf / Rmc	Charts	
Rm @ BHT	1.31 @ 113	
Operating Rig Time	3 1/2 Hours	
Max Rec. Temp. F	113	
Equipment Number	108	
Location	Hays	
Recorded By	J. Hennickson	
Witnessed By	Marc Downing	Charles Ramsay

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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

Thank you for using Pioneer Energy Services
www.pioneerres.com
785 625 3858

Damar Kansas
3 1/2 West on Hwy 18 to 380 Ave, South Into

Database File: c:\warrior\data\h&c_benoit # 22-1\h&c_benoit_22_1hd.db
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Presentation Format: dil2in
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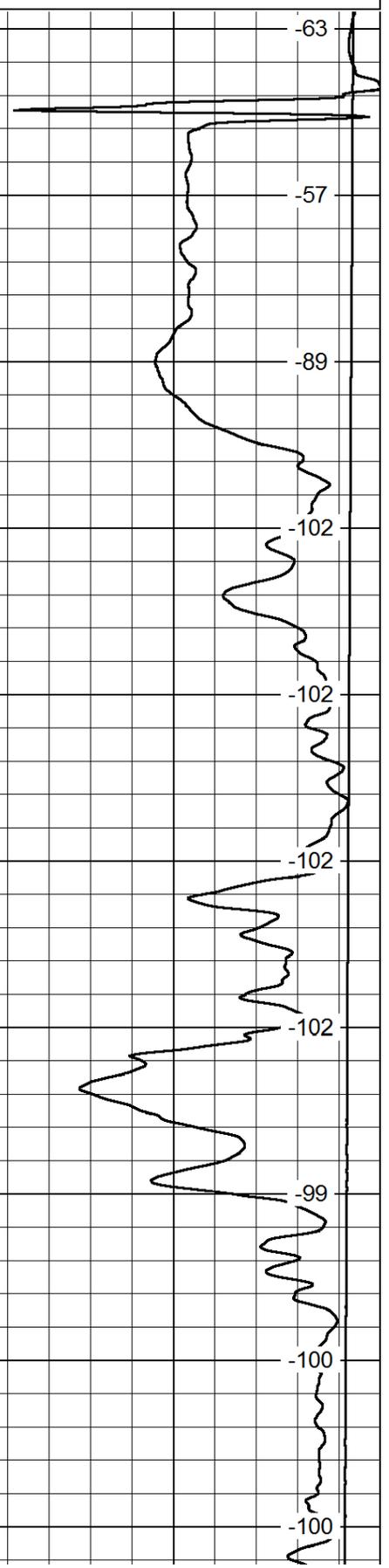
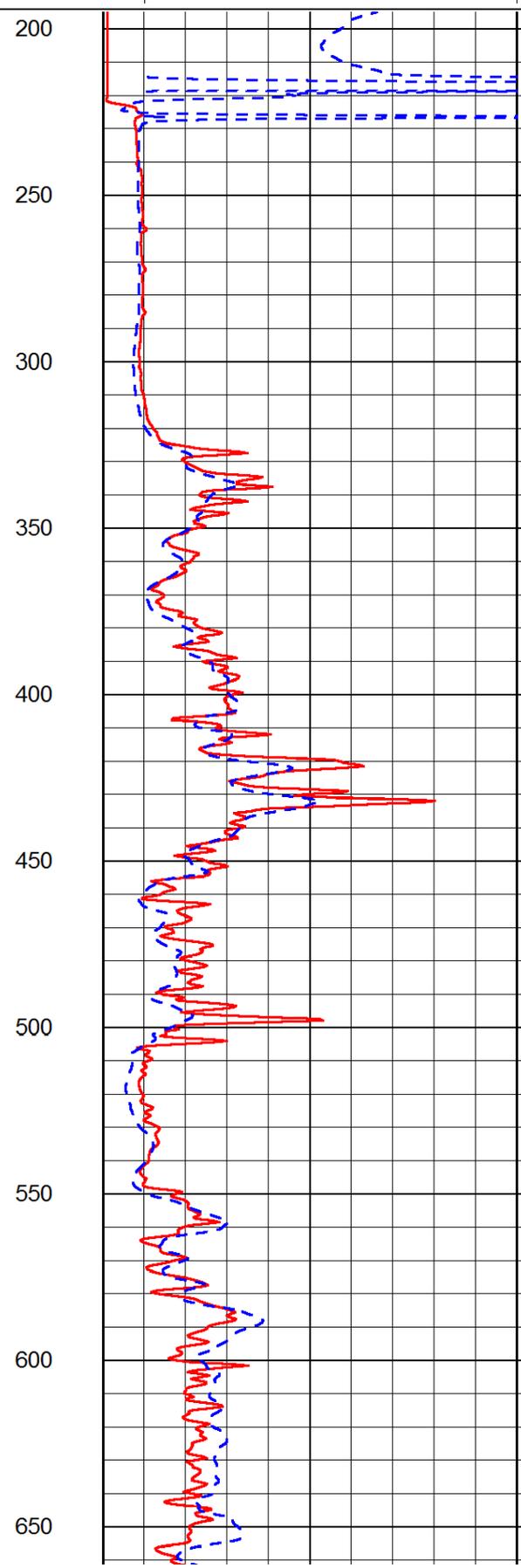
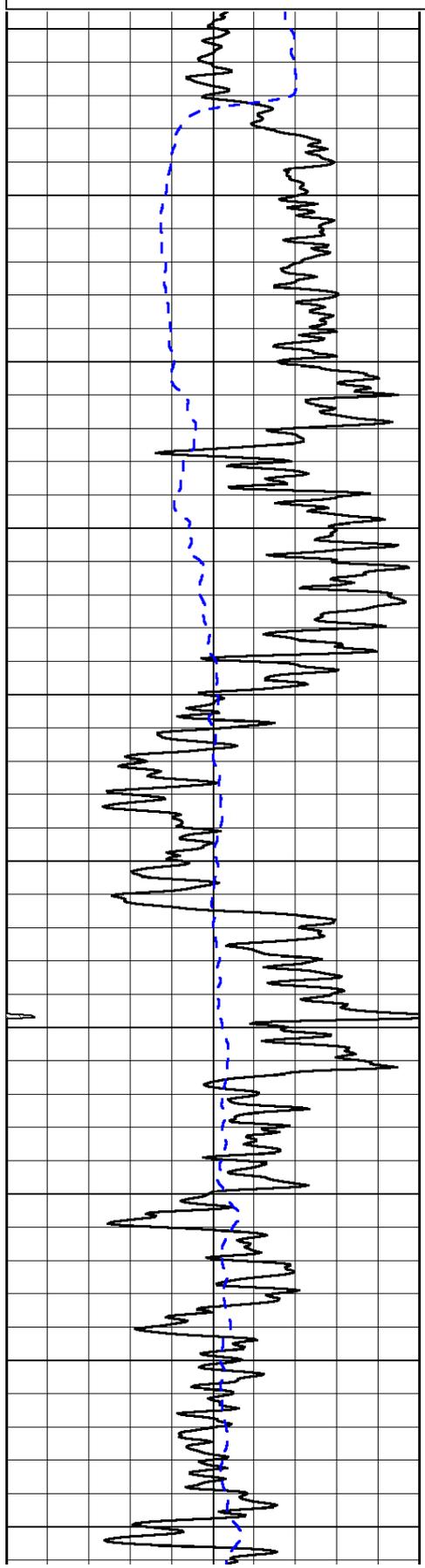
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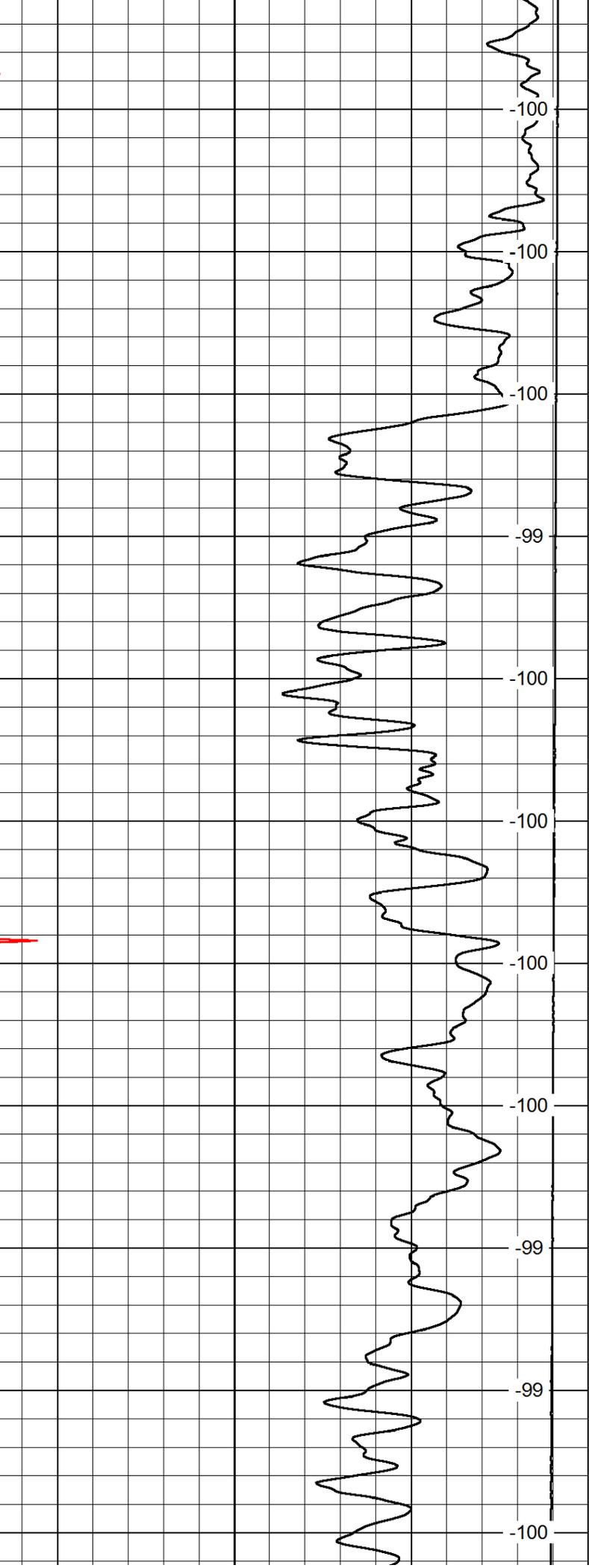
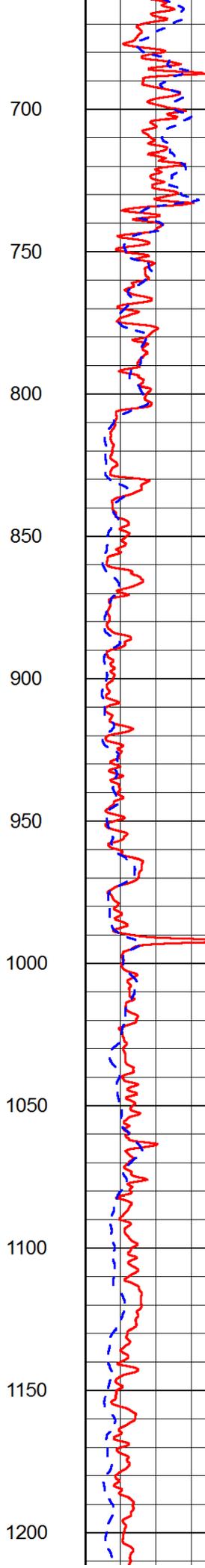
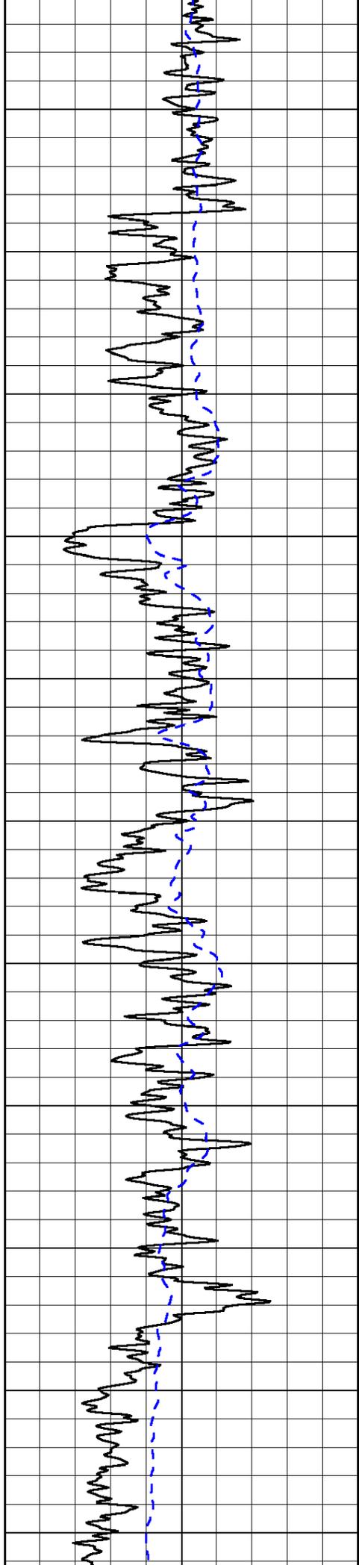
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0	Deep Resistivity	50

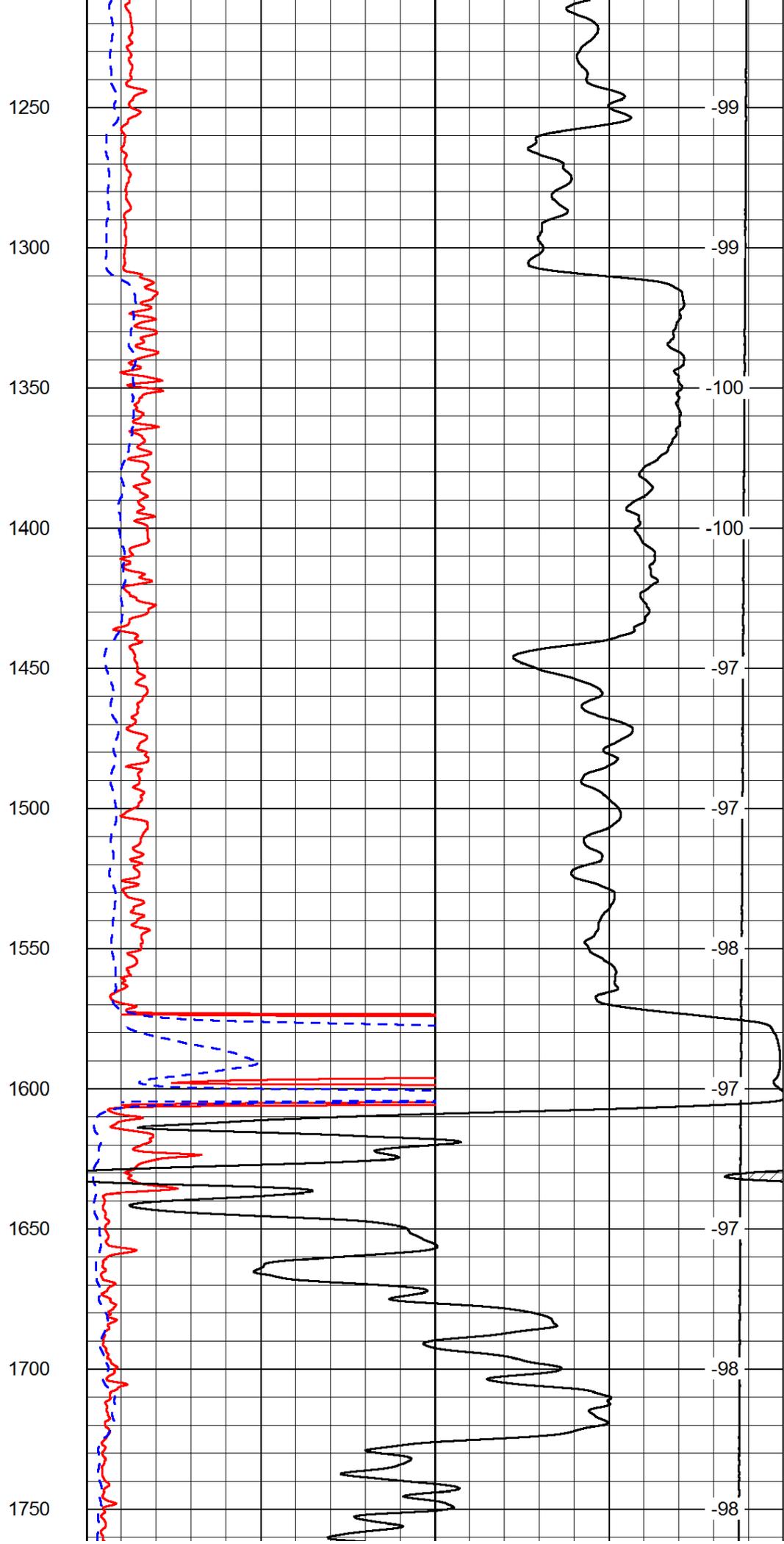
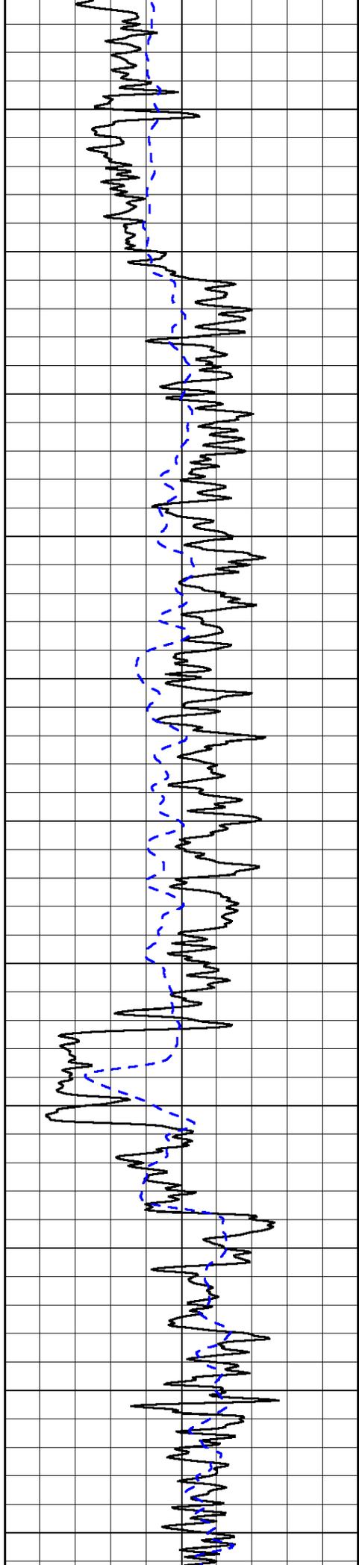
LSPD

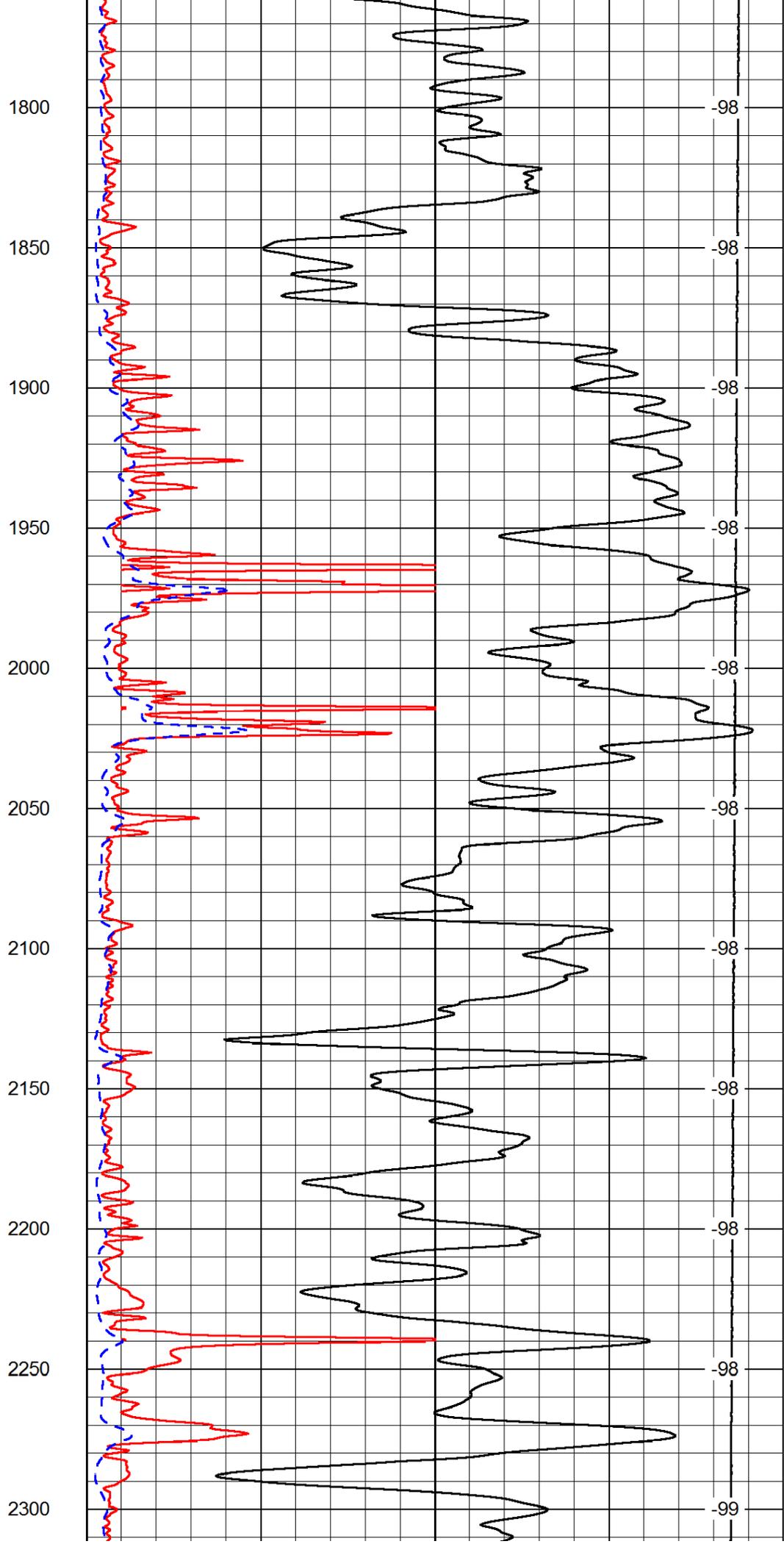
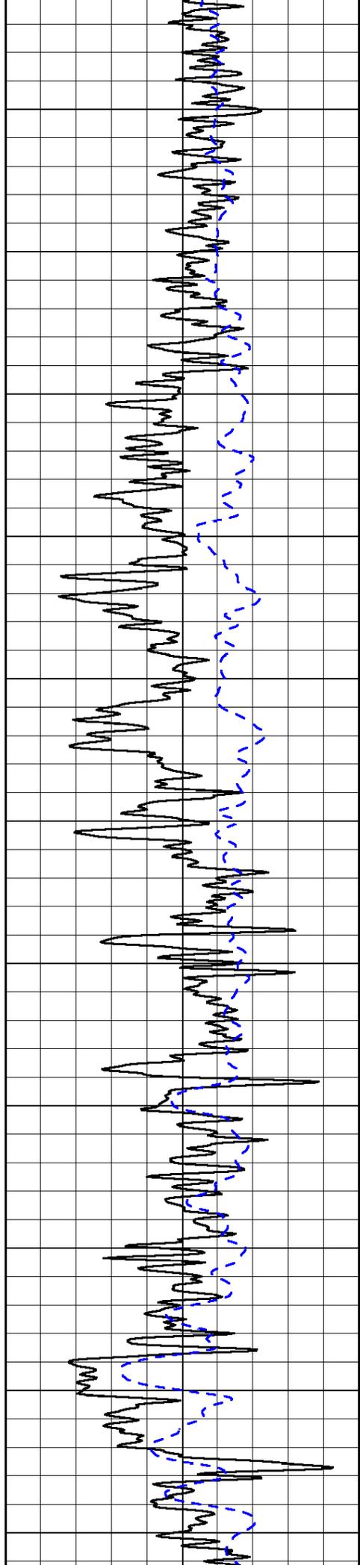
1000	Conductivity	0
15000	Line Tension	0

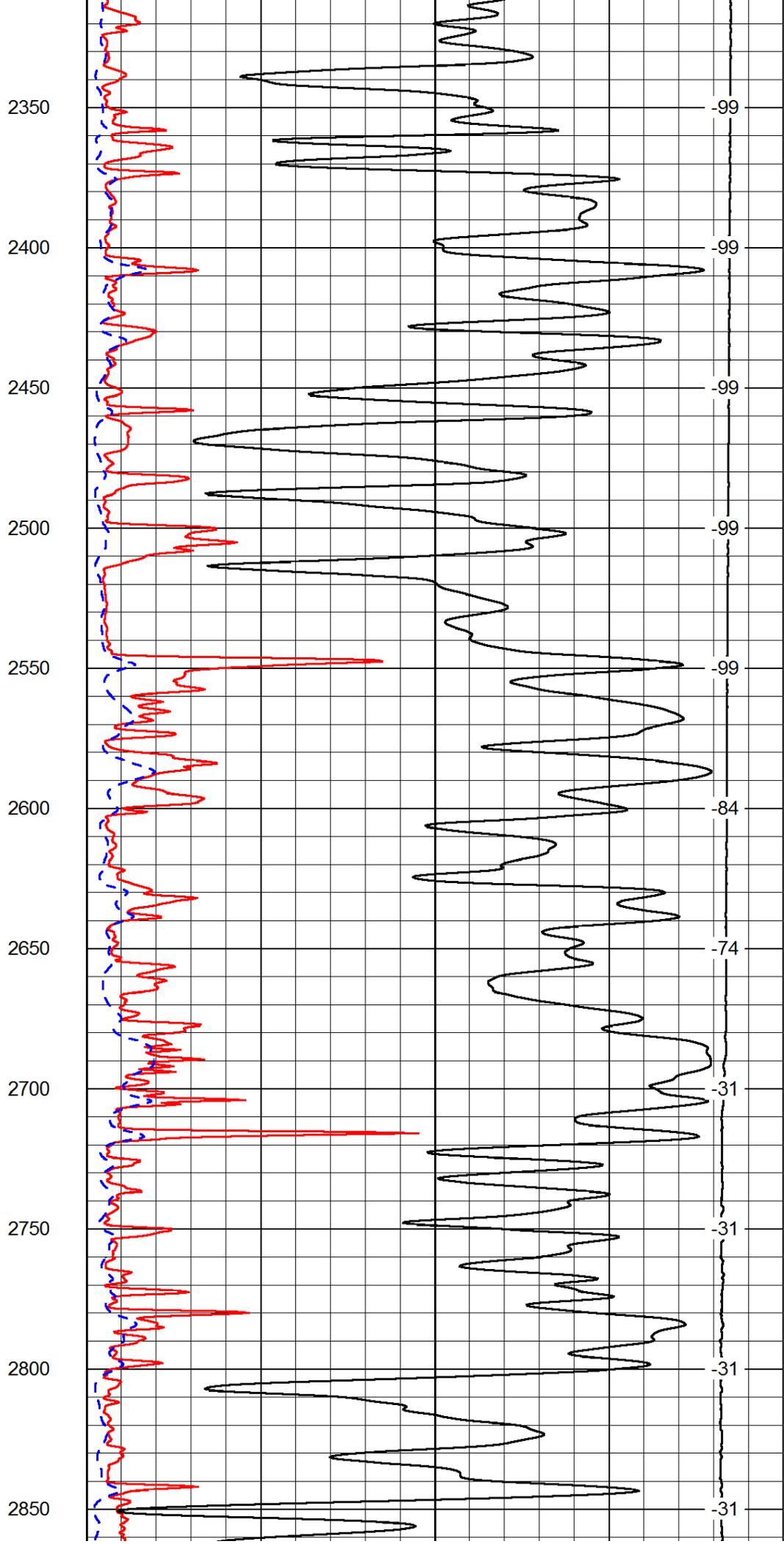
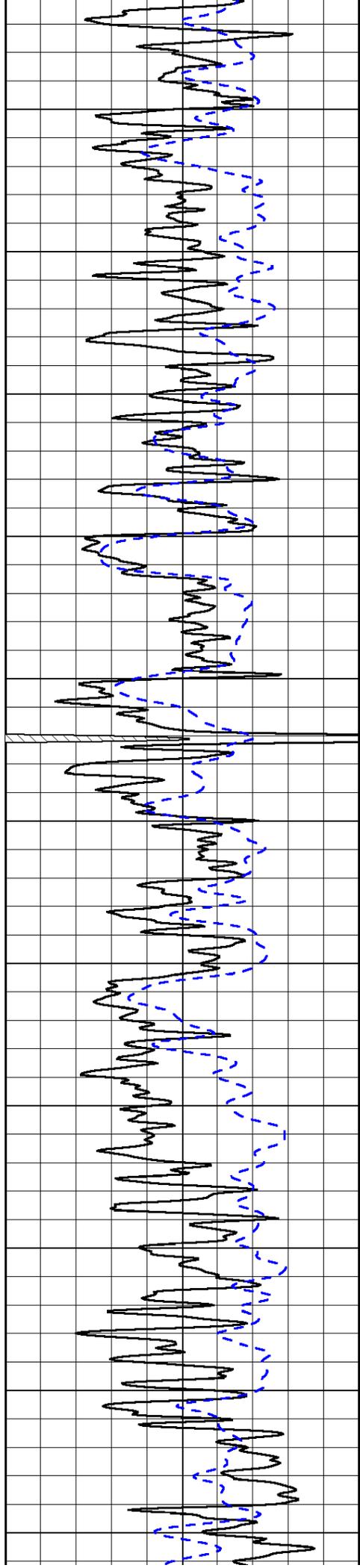
50	Shallow Resistivity	500
50	Deep Resistivity	500

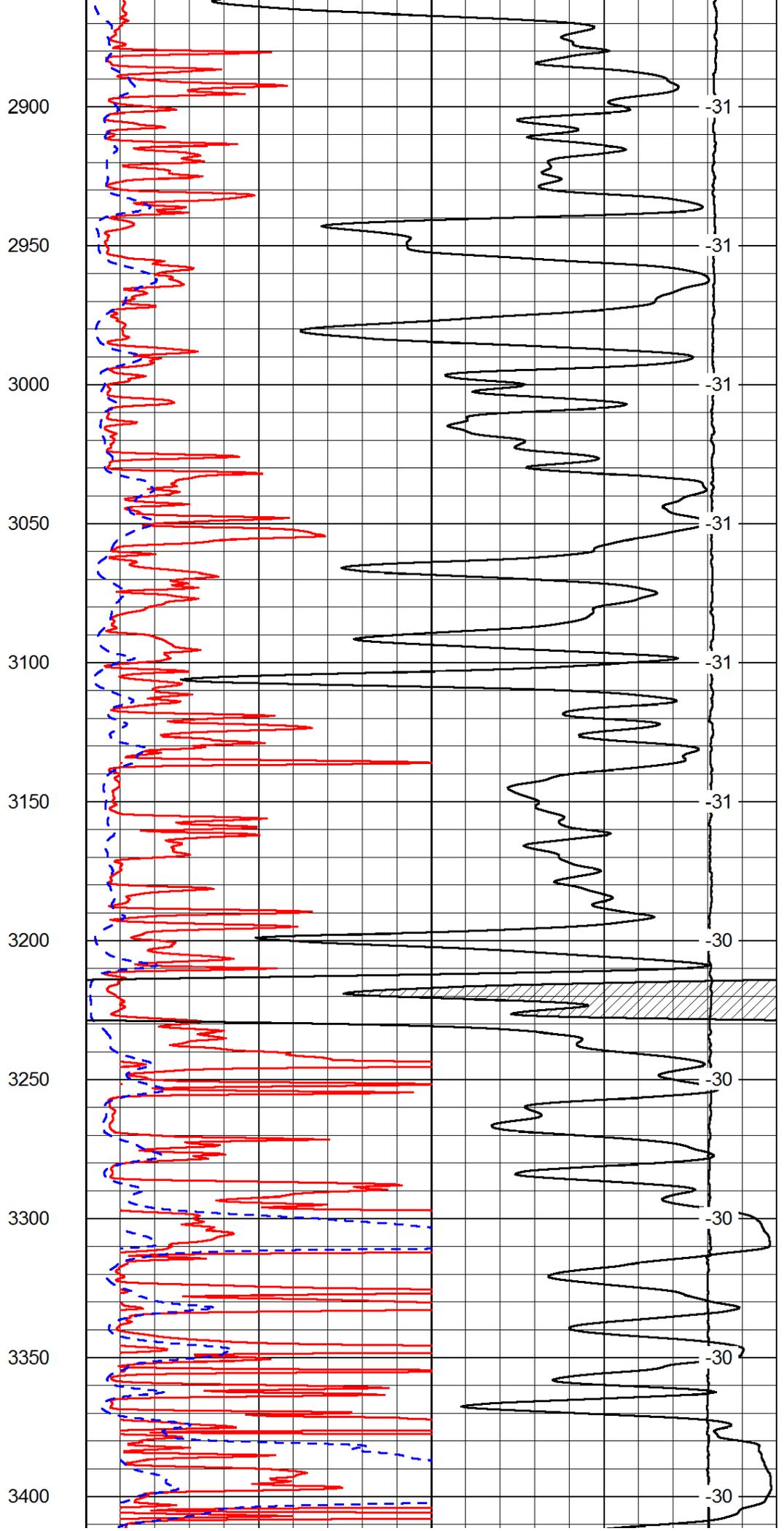
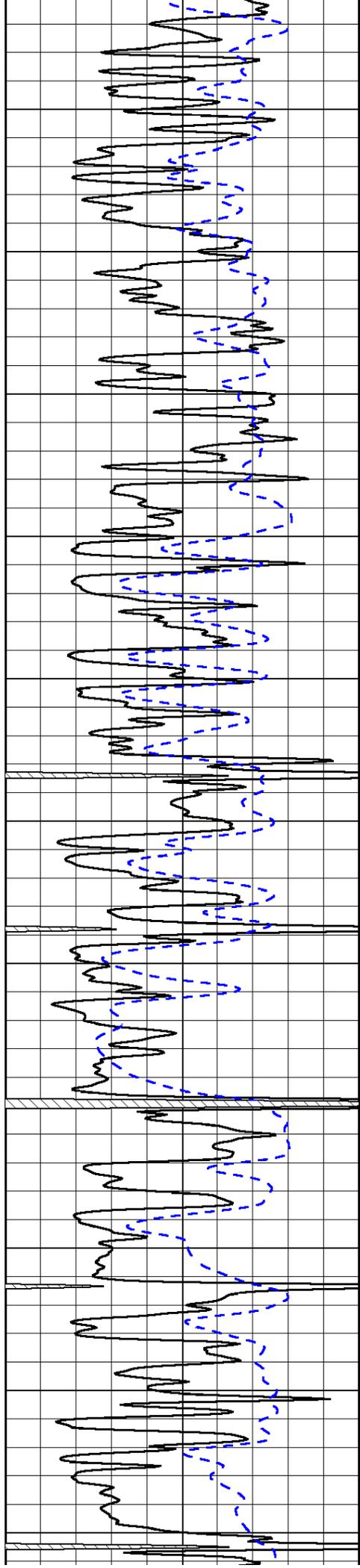


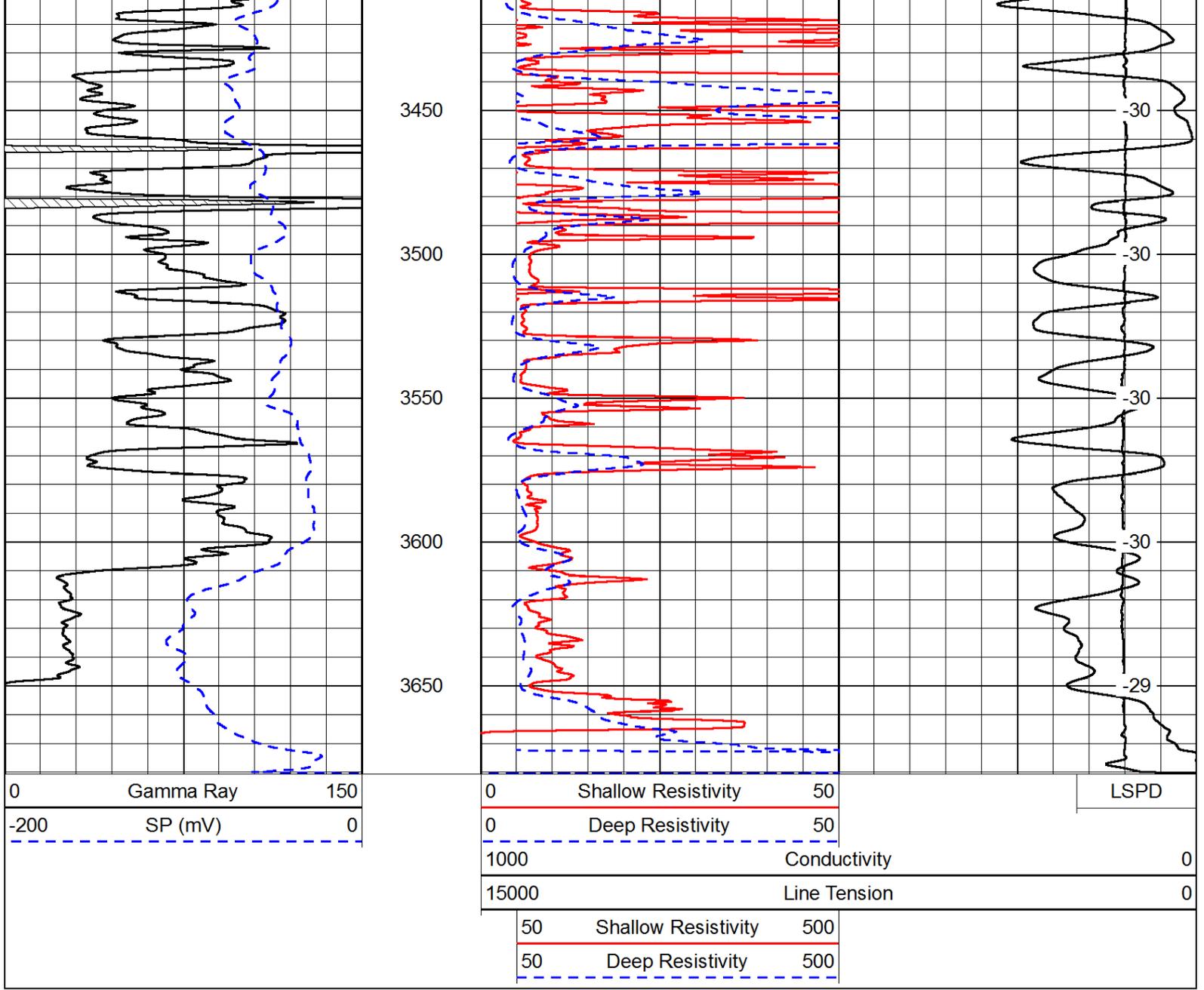




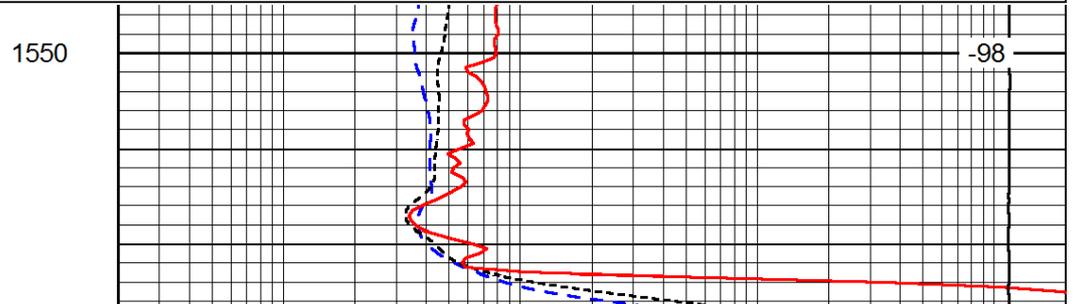
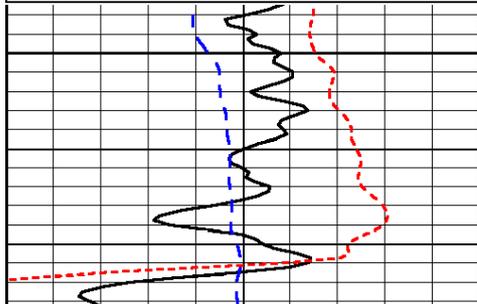
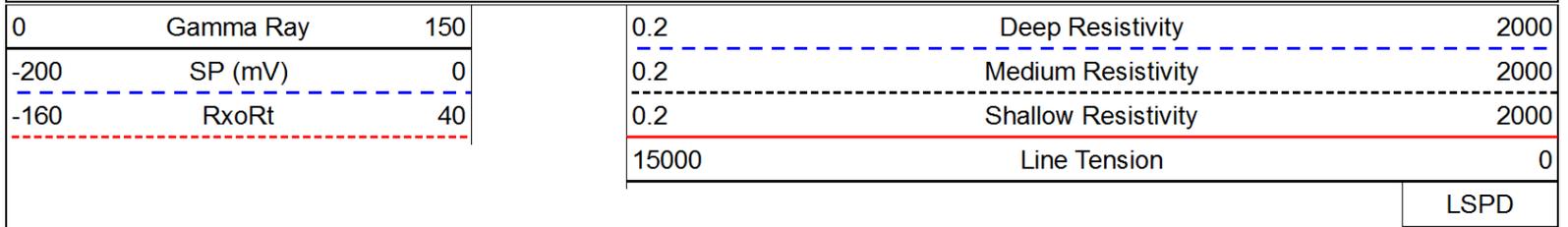


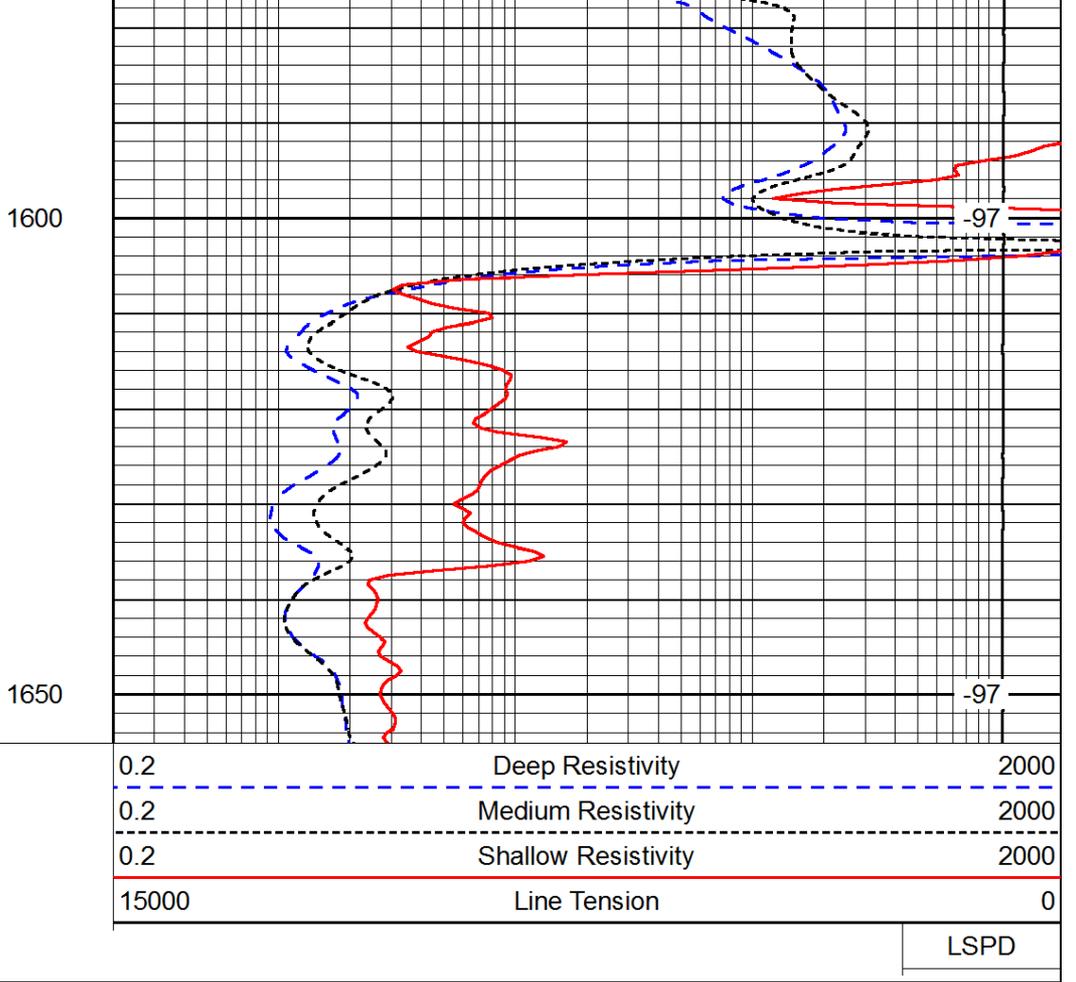
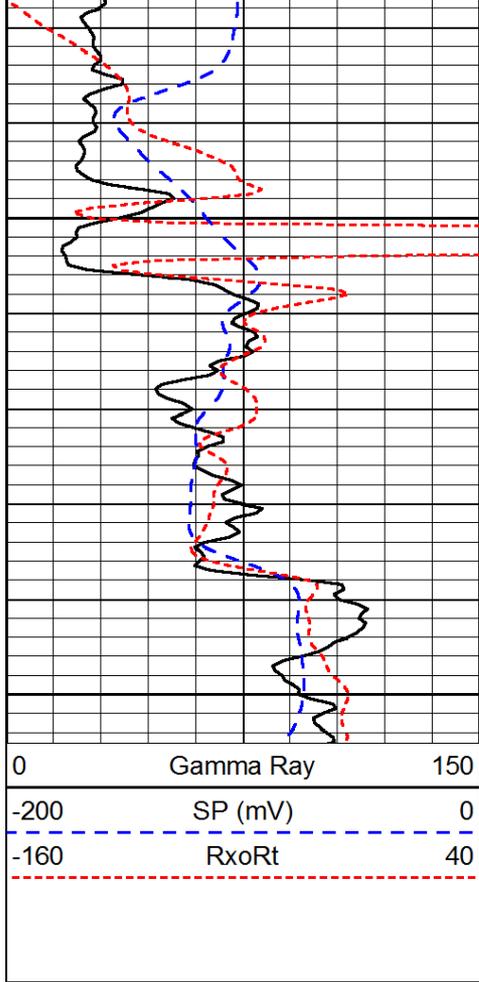




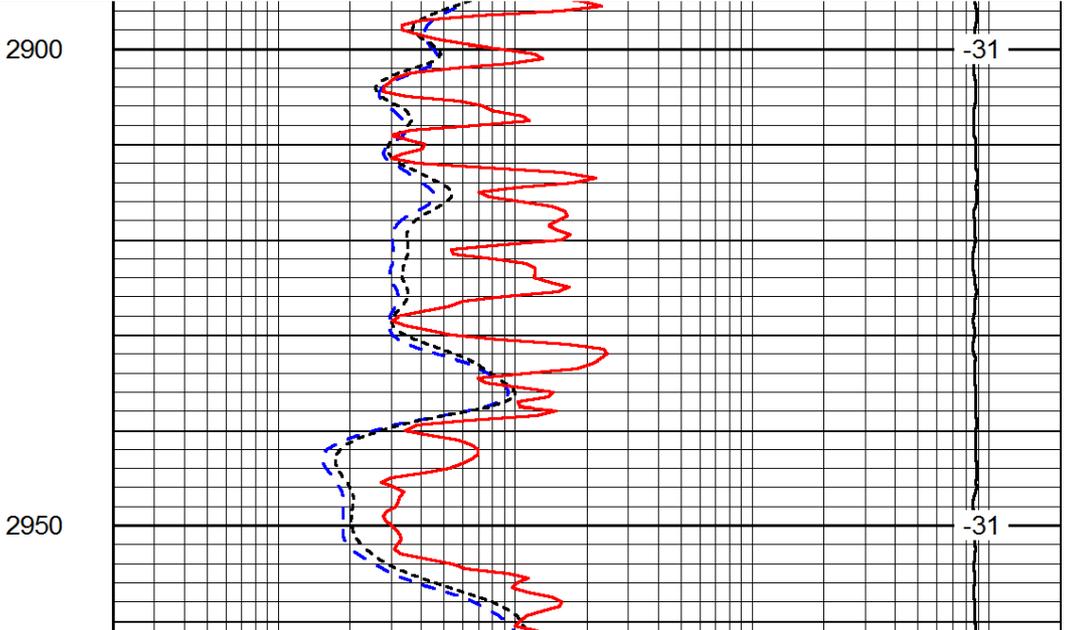
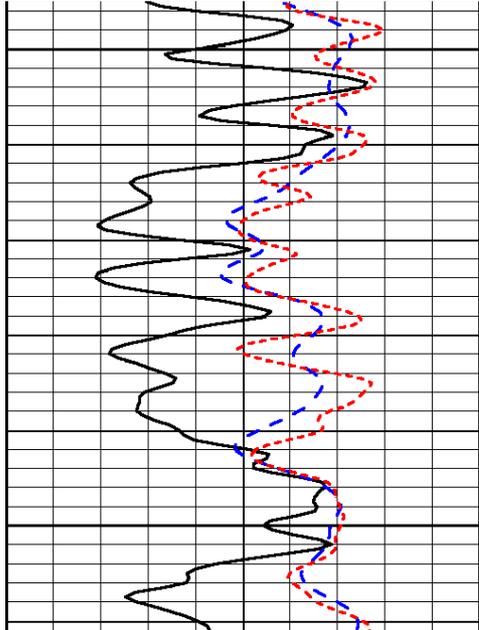
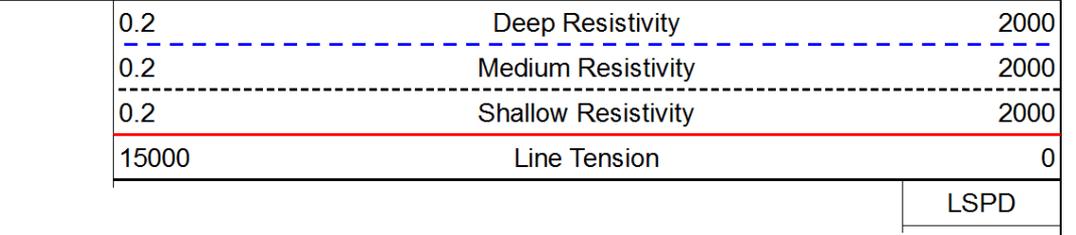
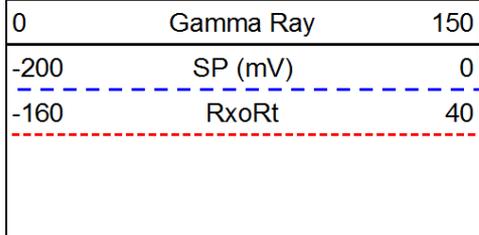


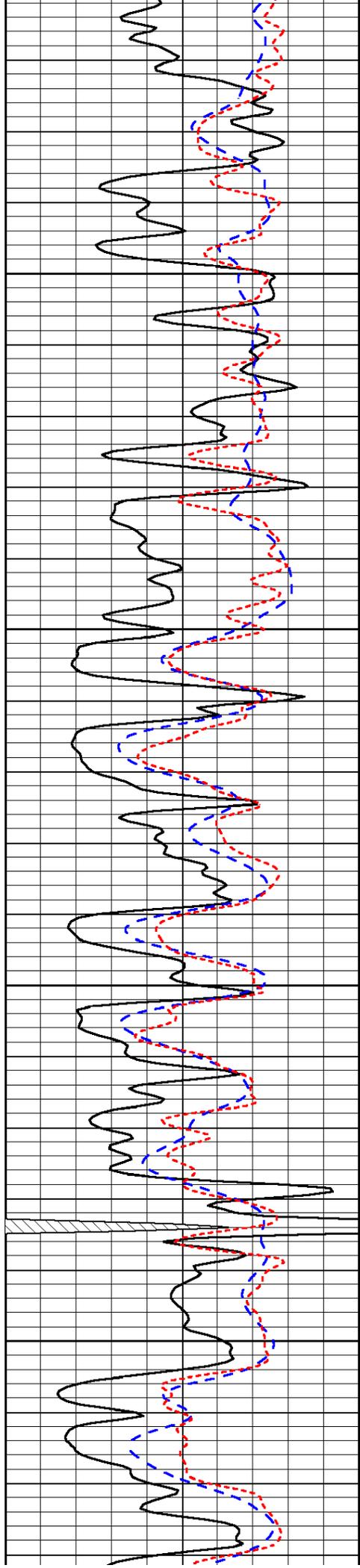
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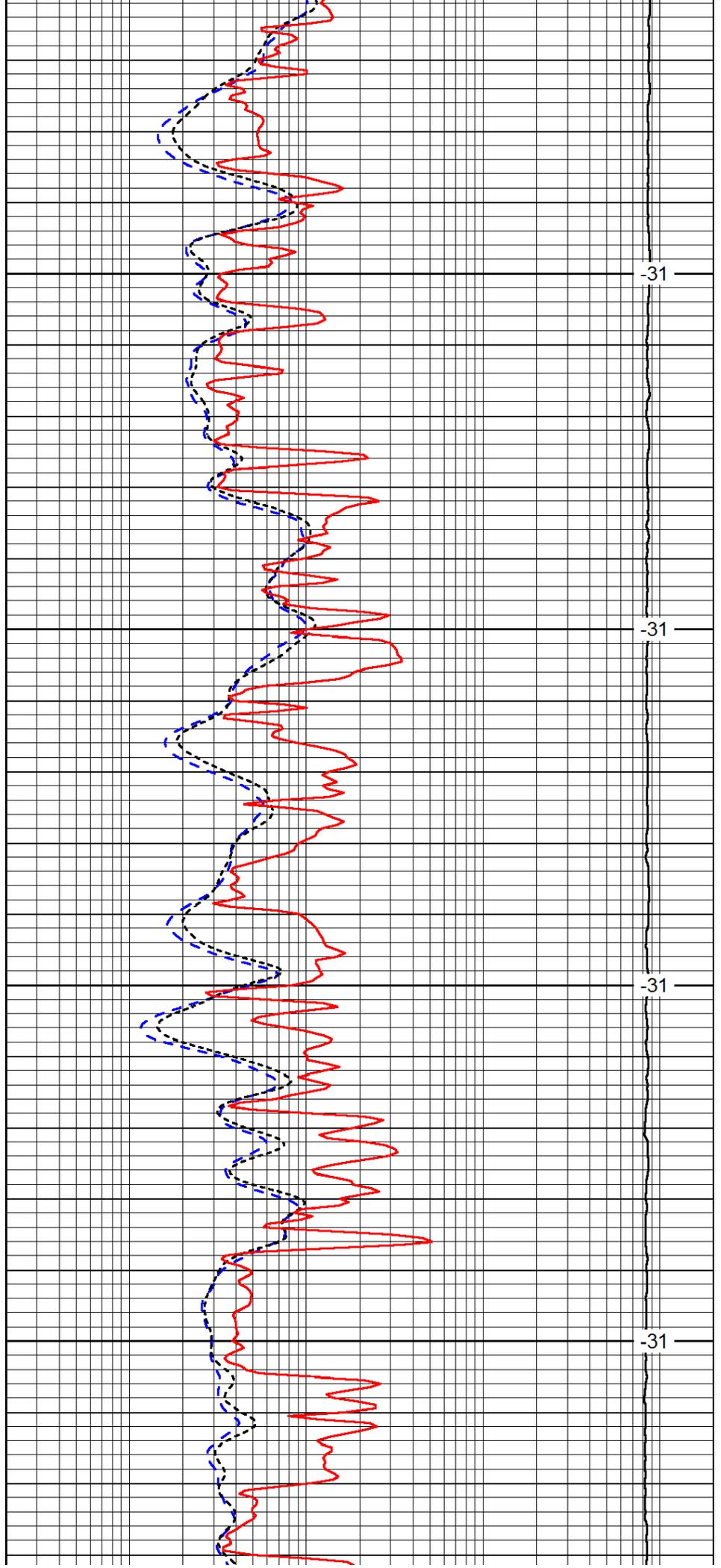


3000

3050

3100

3150

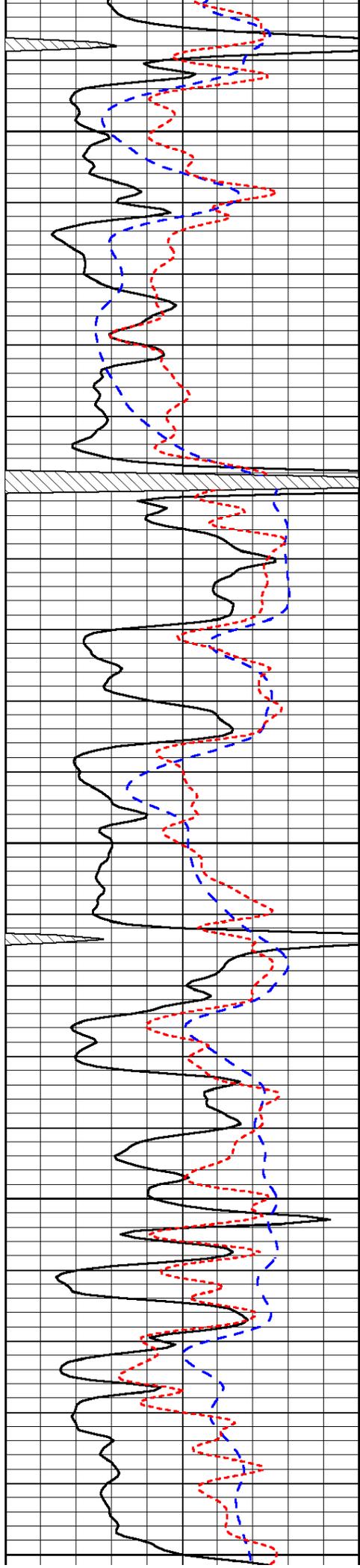


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-31

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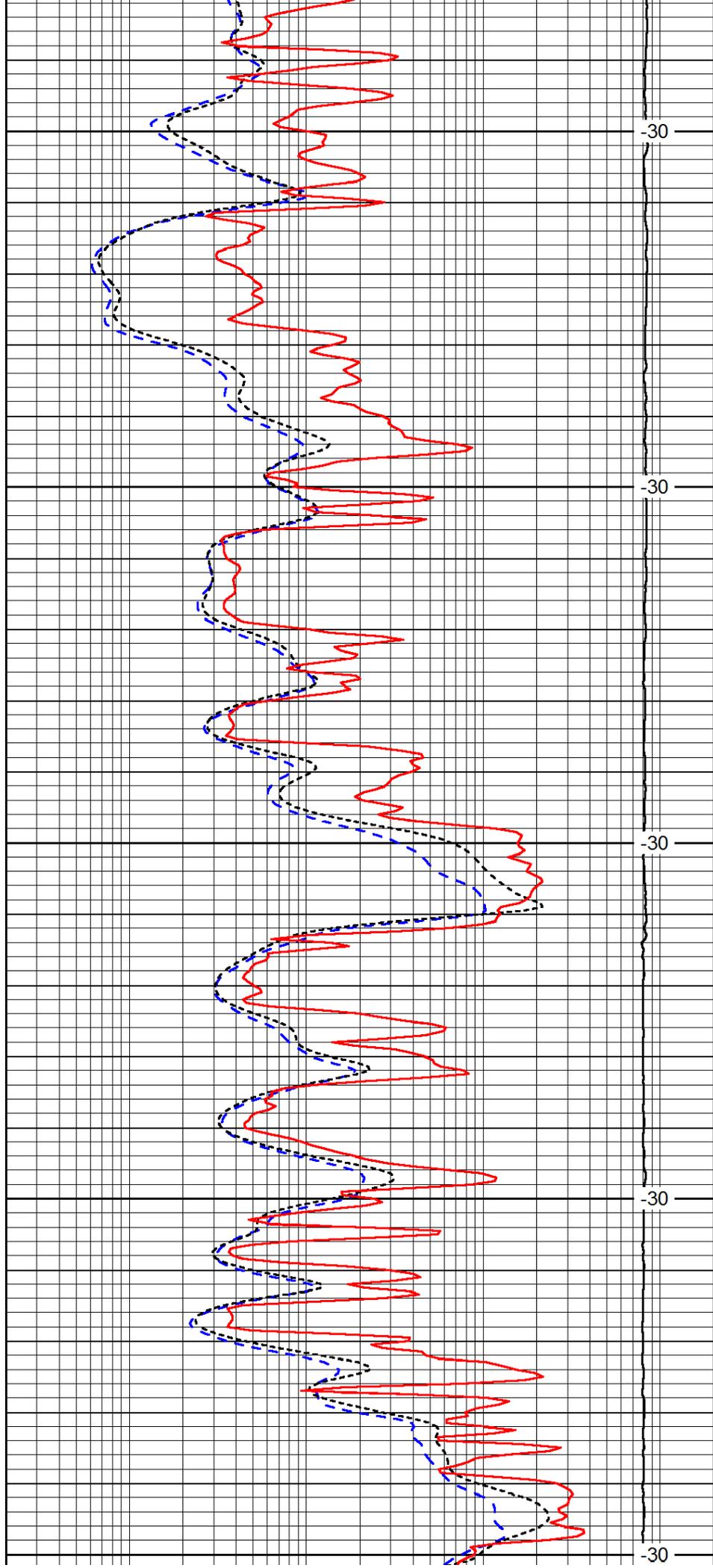
3200

3250

3300

3350

3400



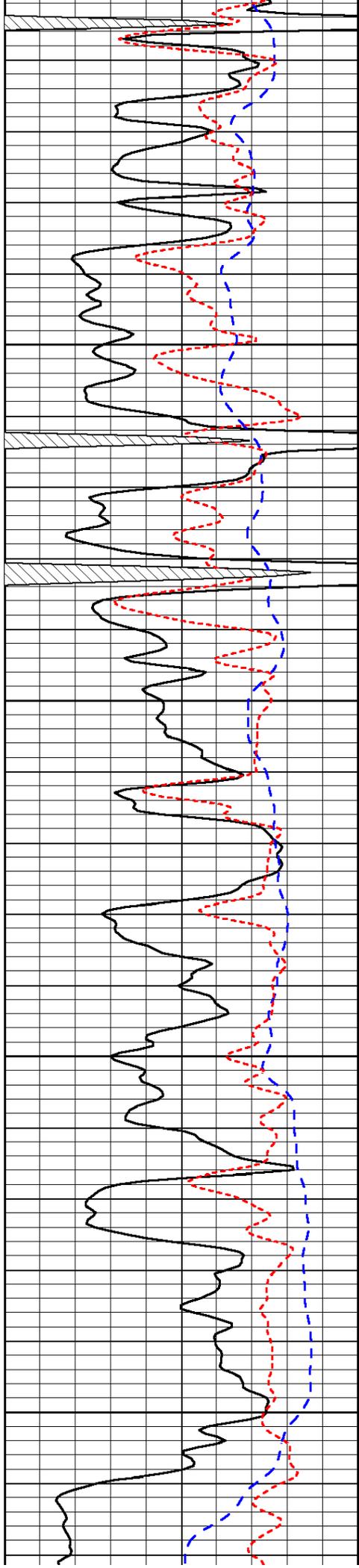
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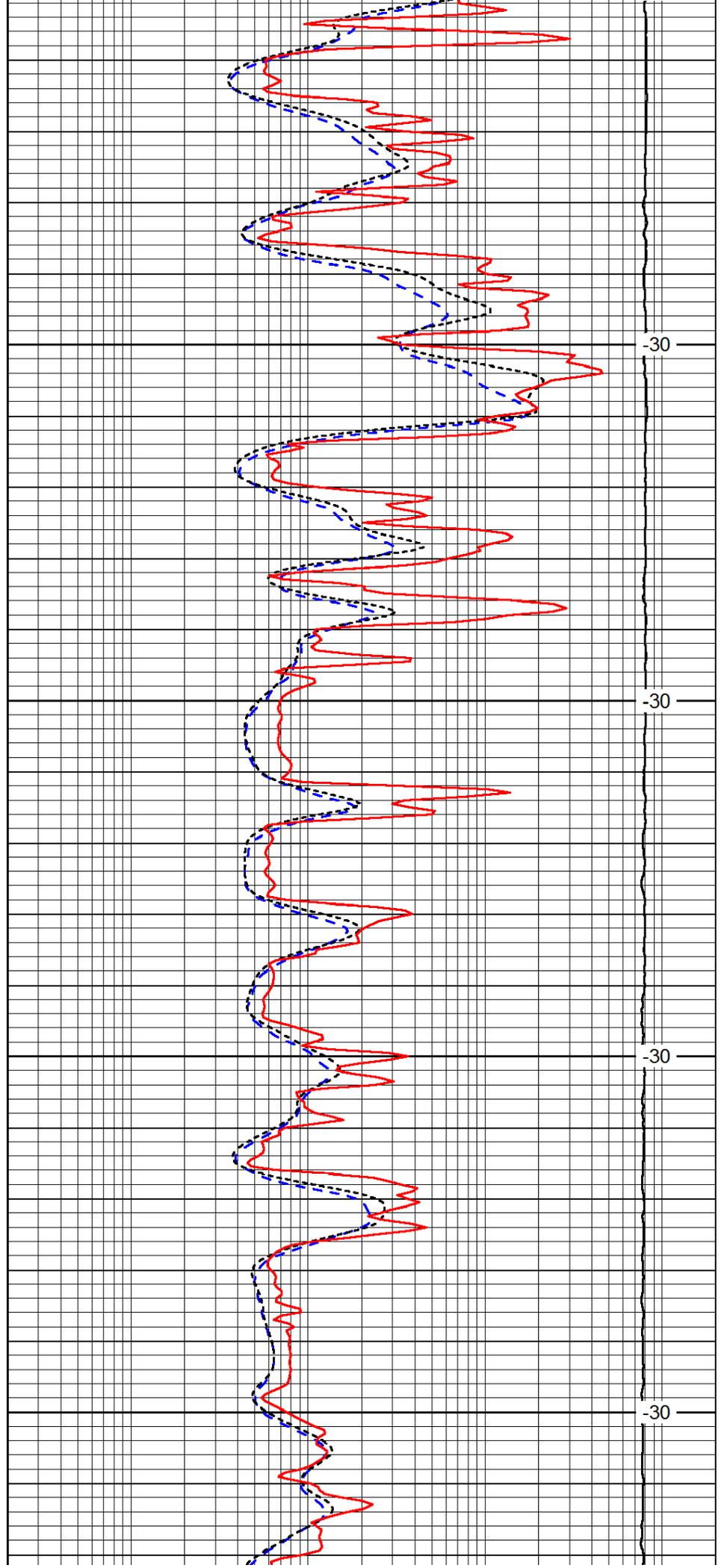


3450

3500

3550

3600

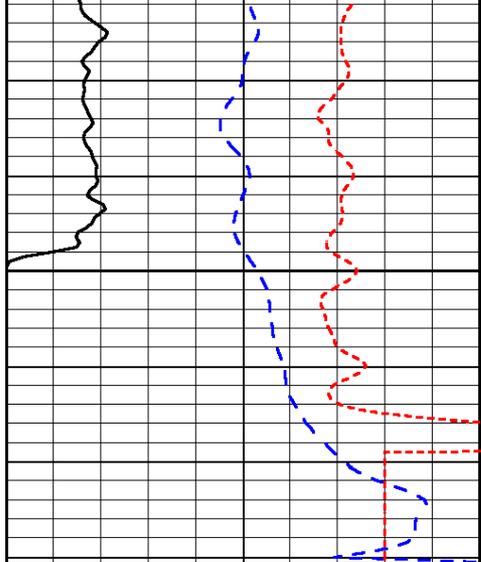


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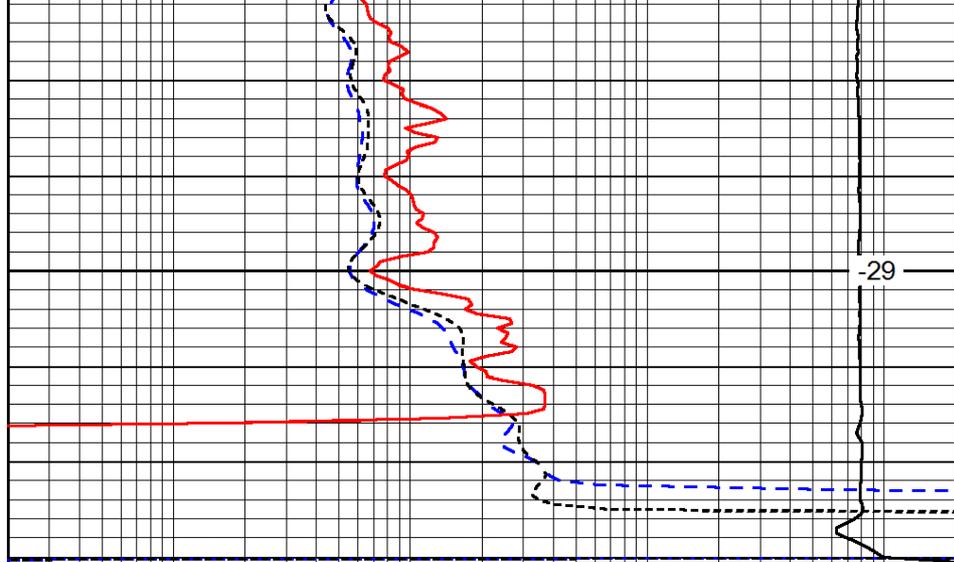
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-30



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

3650



0.2	Deep Resistivity	2000
0.2	Medium Resistivity	2000
0.2	Shallow Resistivity	2000
15000	Line Tension	0

LSPD