



# Dual Induction Log

DIGITAL LOG (785) 625-3858

API No.	15-145-21666-00-00	
Company	Credo Petroleum Corporation	
Well	Springer Trust #1-18	
Field	Wildcat	
County	Pawnee	State Kansas
Location	W2 E2 SE 1320' FSL / 990' FEL	
Sec: 18	Twp: 20S	Rge: 19W
Other Services	CNL / CDL	

Permanent Datum	Ground Level	Elevation 2208
Log Measured From	Kelly Bushing	5 Ft. Above Perm. Datum
Drilling Measured From	Kelly Bushing	K.B. 2213 D.F. 2208 G.L. 2208
Date	2/17/2012	
Run Number	One	
Depth Driller	4400	
Depth Logger	4401	
Bottom Logged Interval	4400	
Top Log Interval	200	
Casing Driller	8.625 @ 223	
Casing Logger	222	
Bit Size	7.875	
Type Fluid in Hole	Chemical	
Salinity, ppm CL	9200	
Density / Viscosity	9.5	77
pH / Fluid Loss	8.0	11.2
Source of Sample	Flowline	
Rm @ Meas. Temp	1.50 @	60
Rmf @ Meas. Temp	1.13 @	60
Rmc @ Meas. Temp	2.03 @	60
Source of Rmf / Rmc	Charts	
Rm @ BHT	0.75 @	120
Operating Rig Time	3 Hours	
Max Rec. Temp. F	120	
Equipment Number	15	
Location	Hays	
Recorded By	R. Barnhart	
Witnessed By	Bruce Ard	

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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 Log-Tech, Inc.  
 (785) 625-3858  
 Rush Center, KS:  
 S to Co. Line, S to X Rd,  
 8W, 1/2S, W into

Database File: credohd.db  
 Dataset Pathname: dil/cremain  
 Presentation Format: dil2in  
 Dataset Creation: Fri Feb 17 13:04:01 2012  
 Charted by: Depth in Feet scaled 1:600

0 Gamma Ray 150  
-200 SP 0

0 Shallow Resistivity 50  
0 Deep Resistivity 50

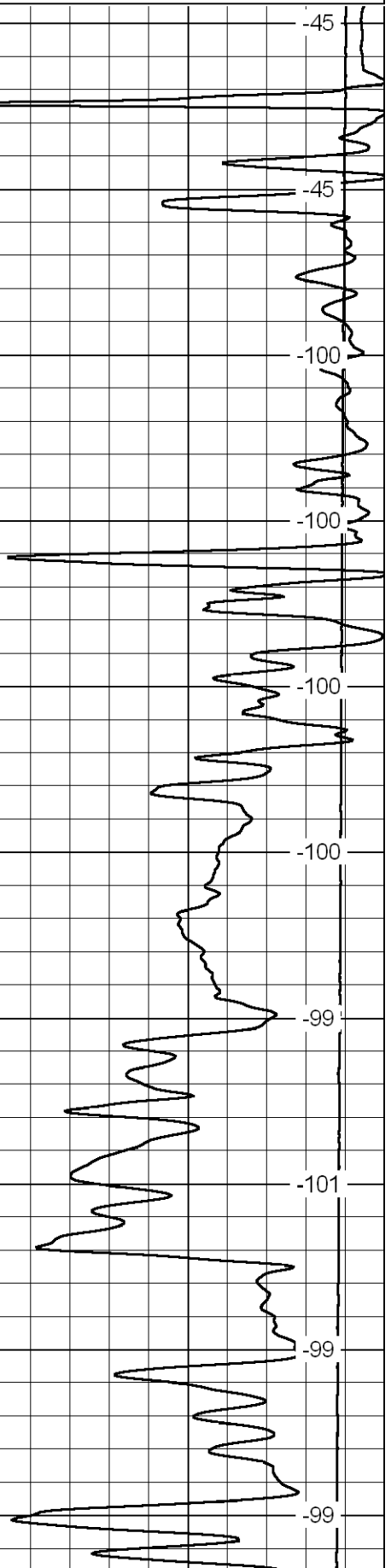
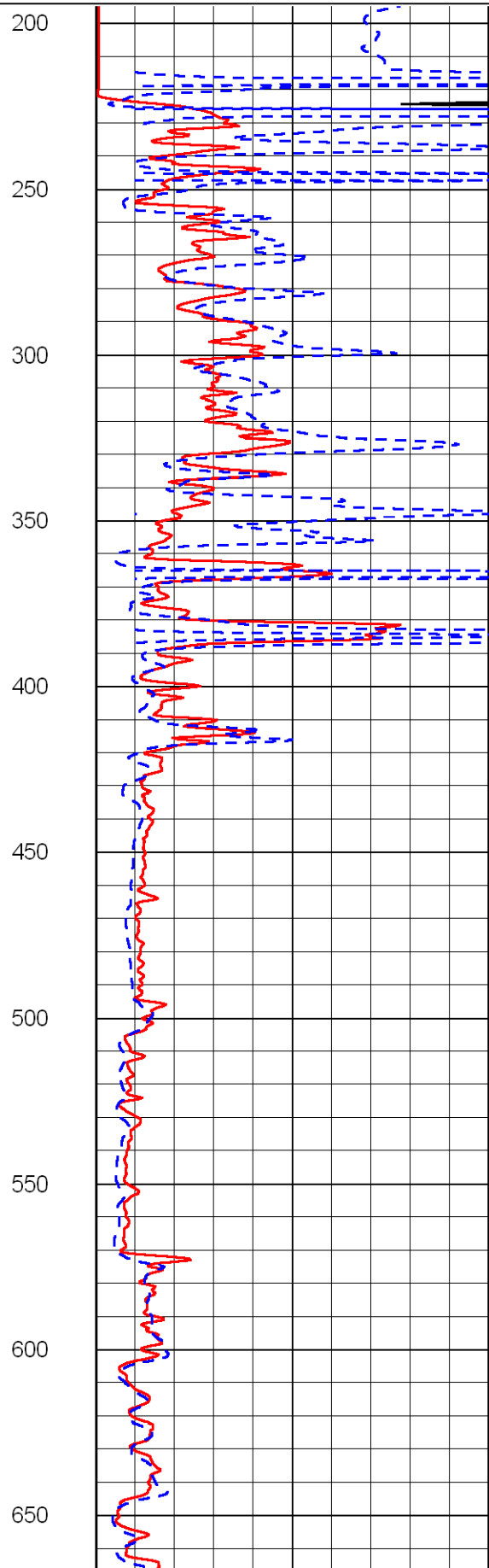
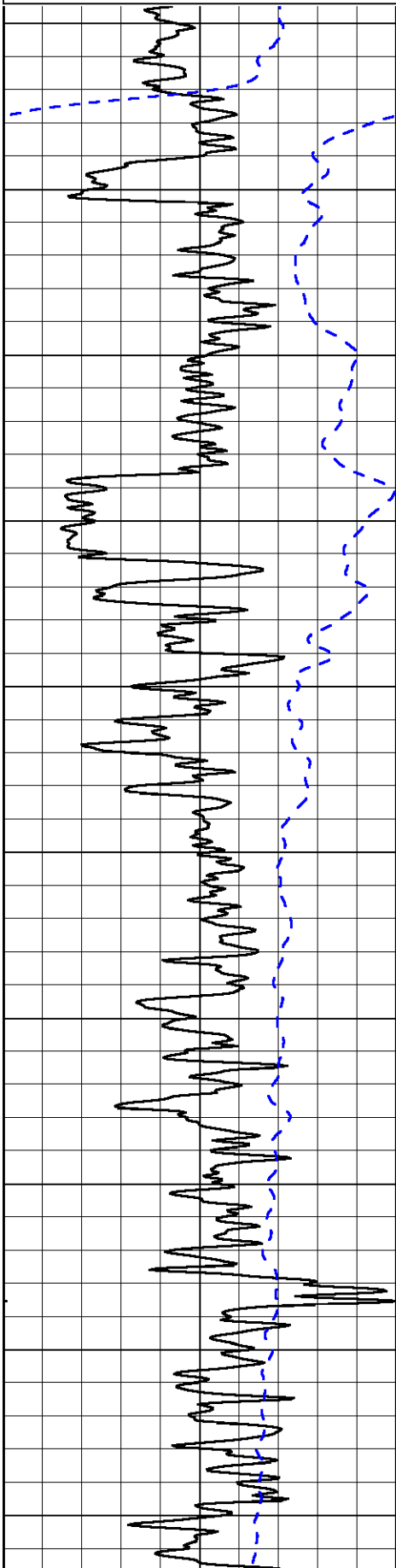
LSPD

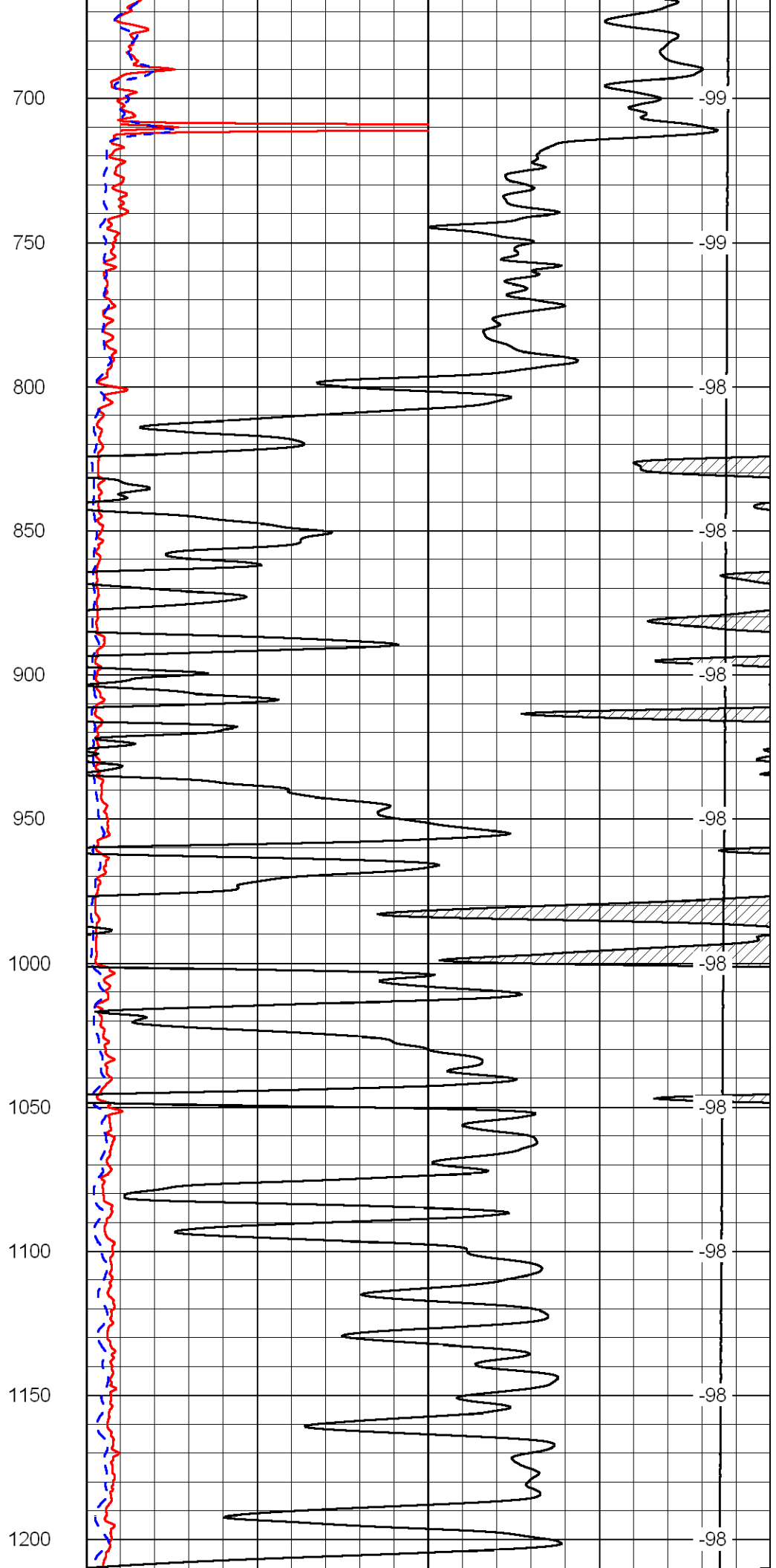
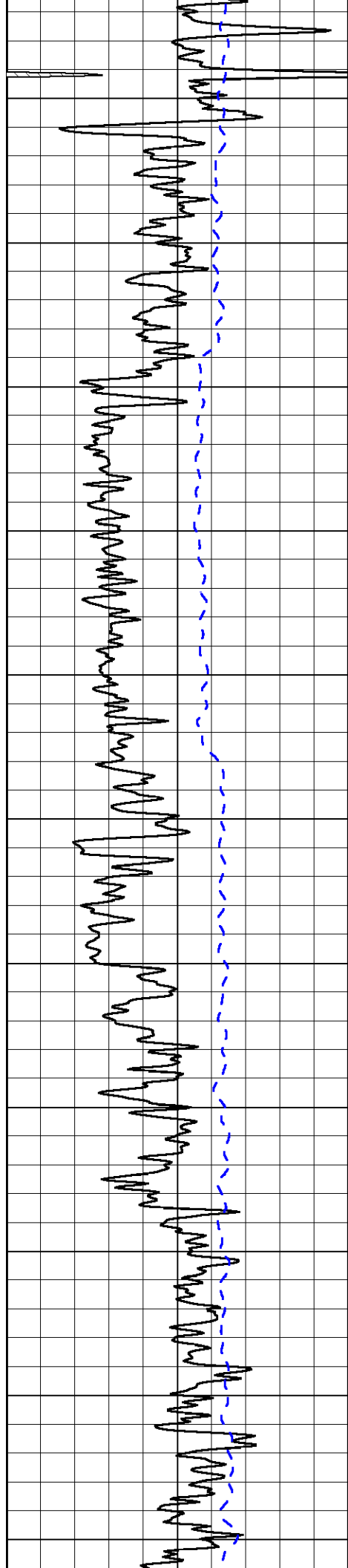
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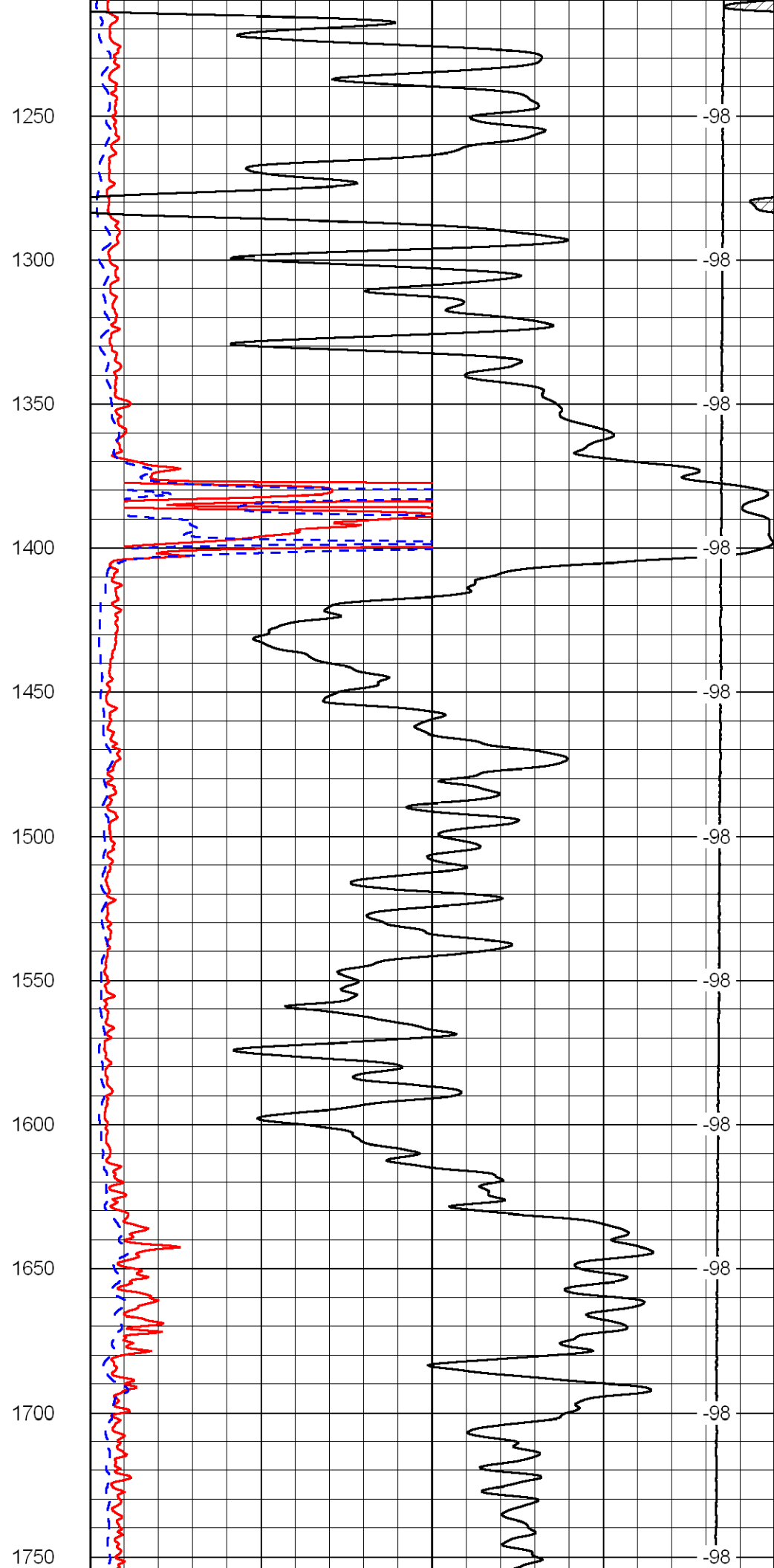
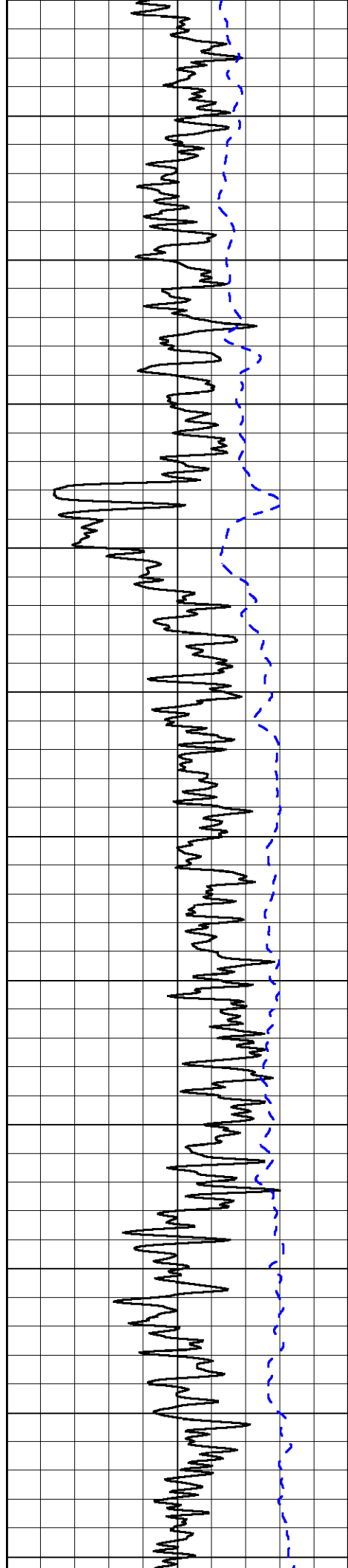
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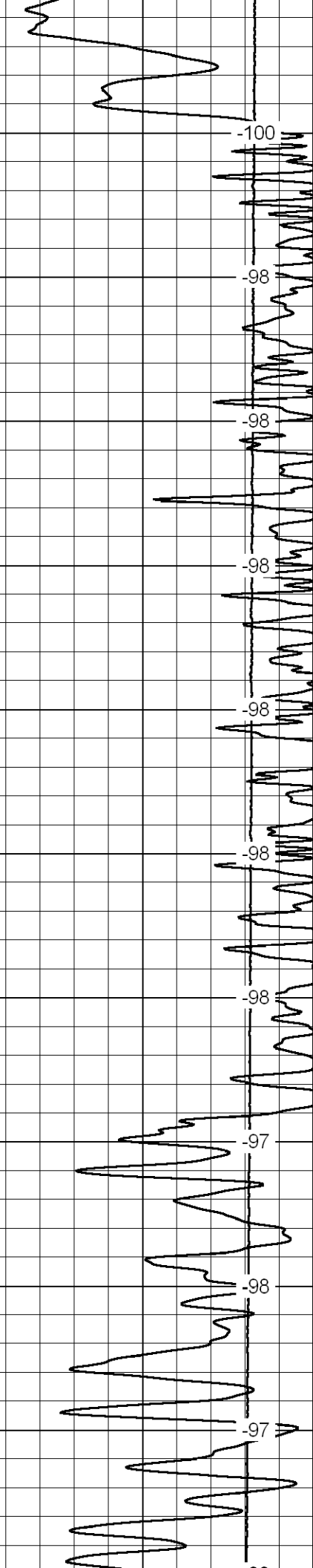
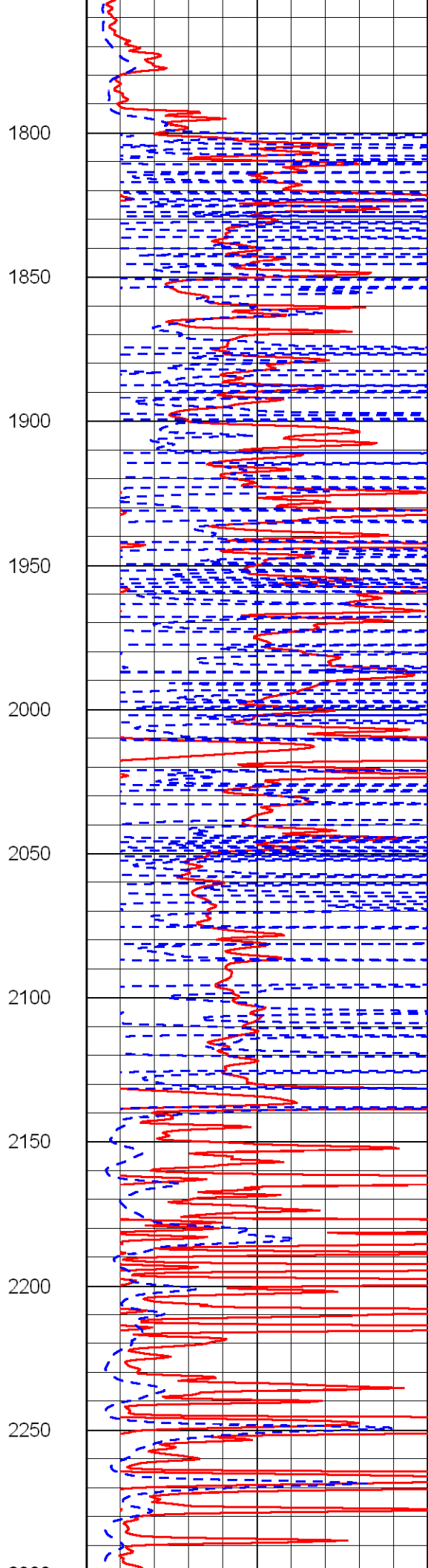
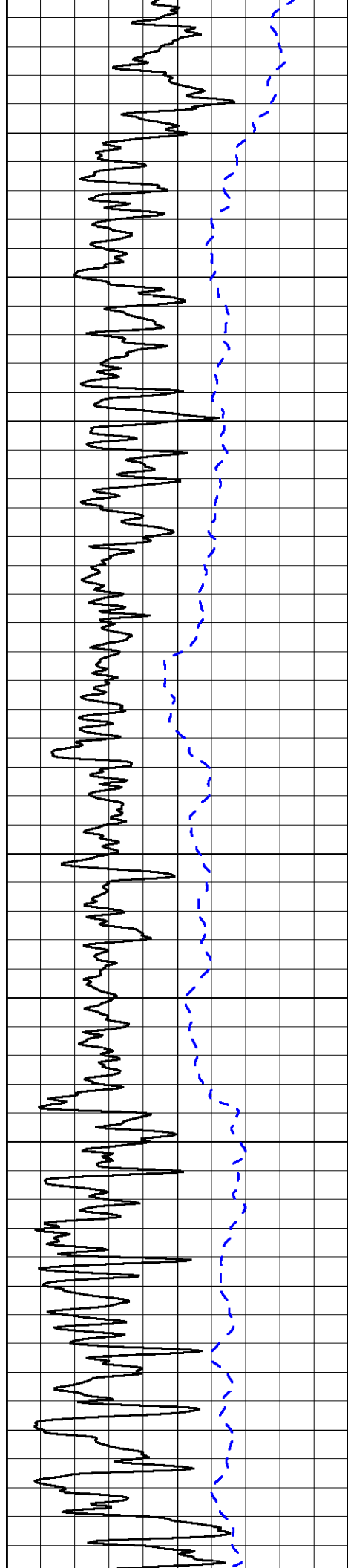
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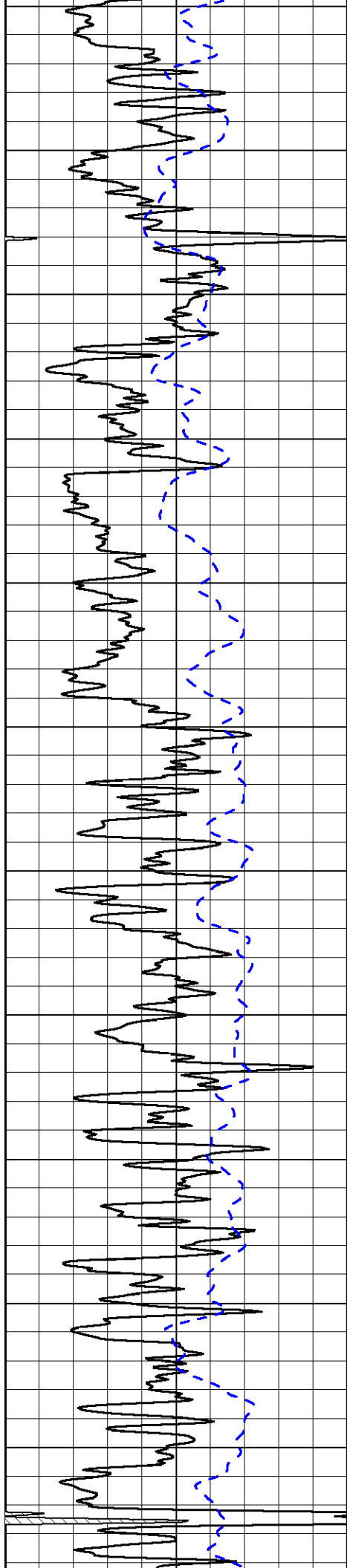
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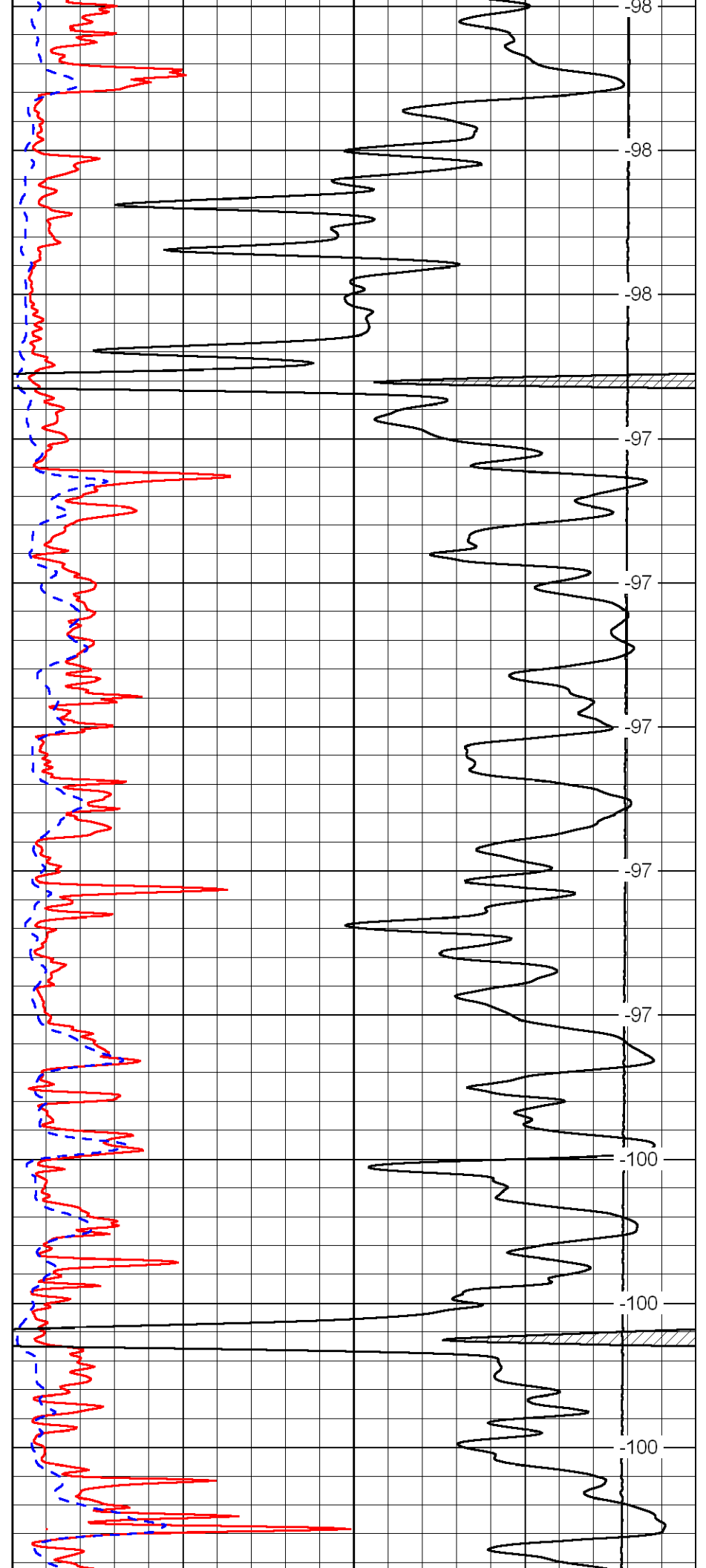




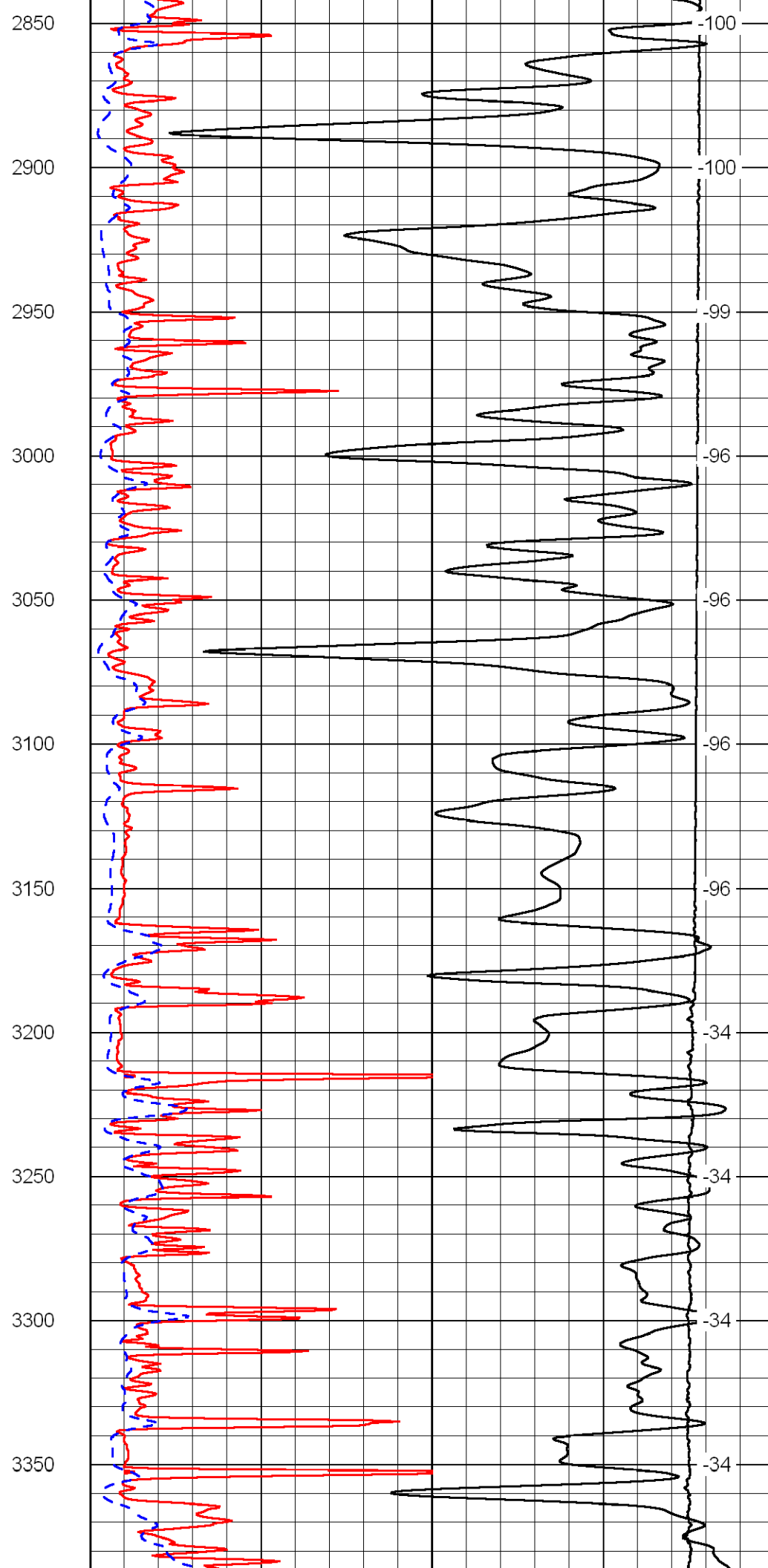
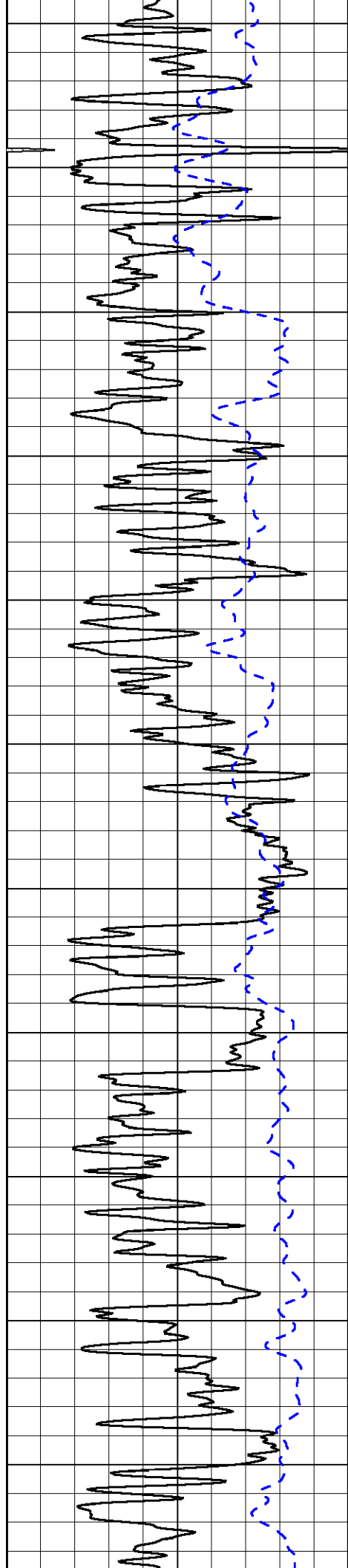


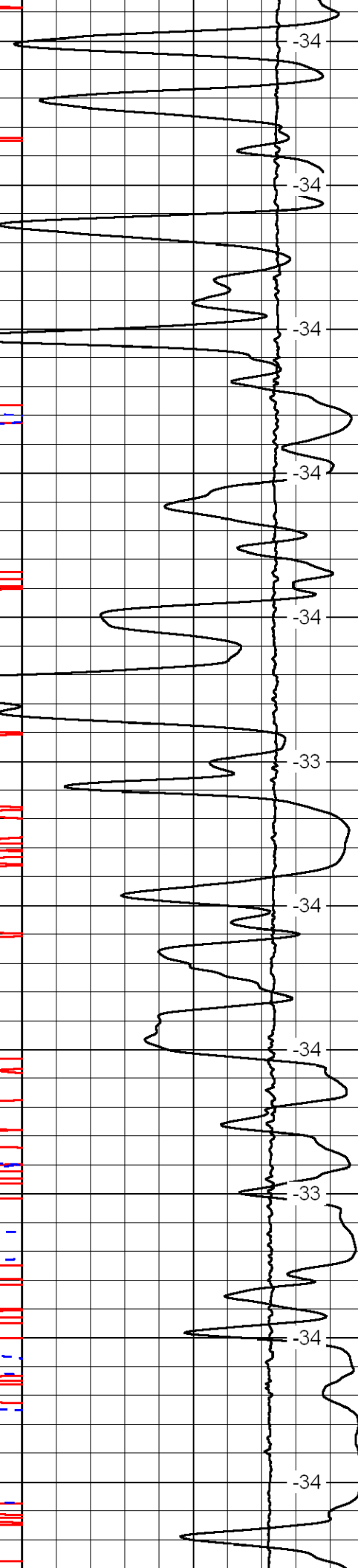
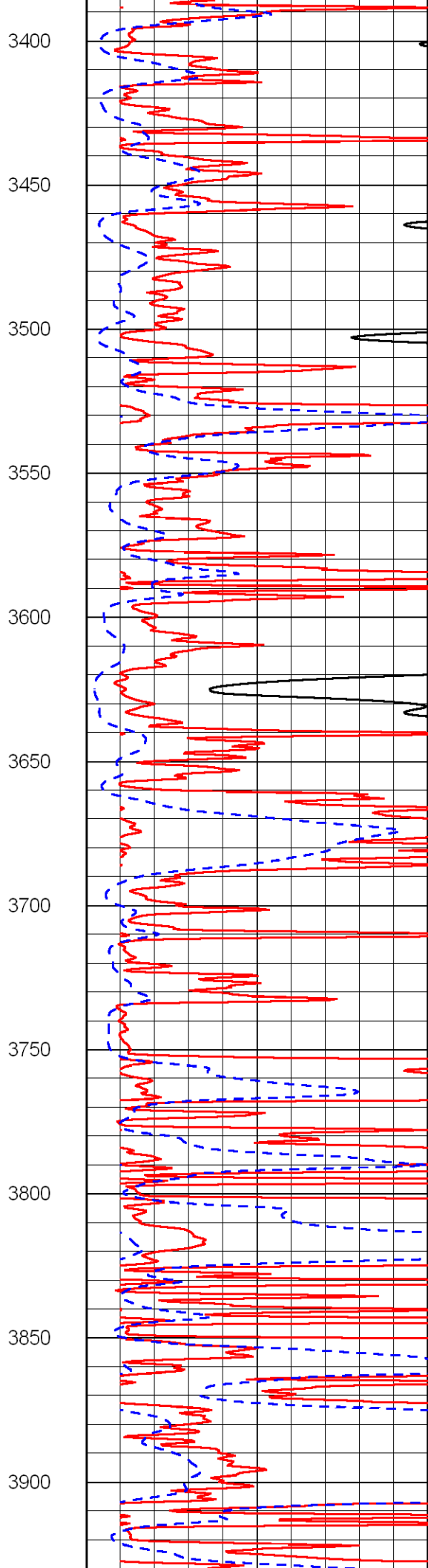
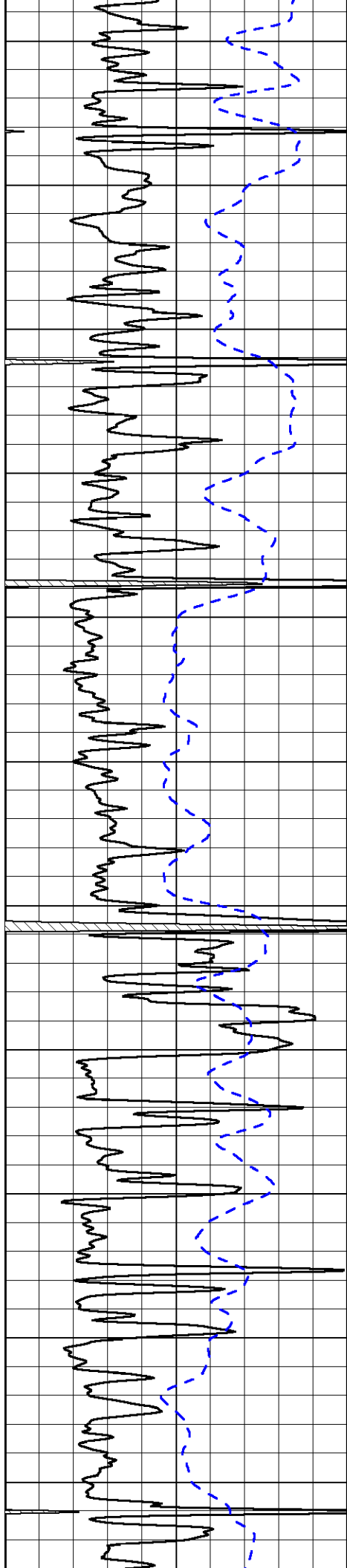


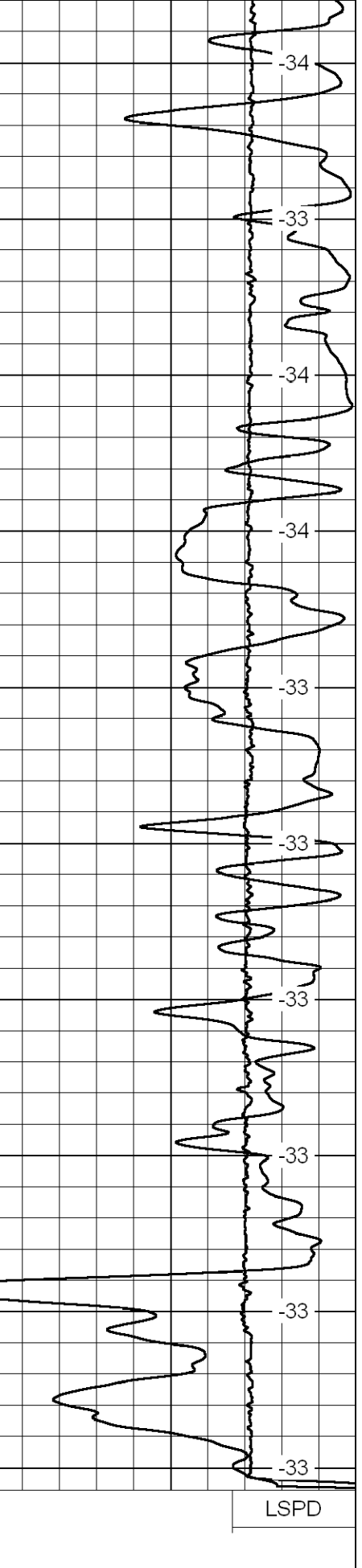
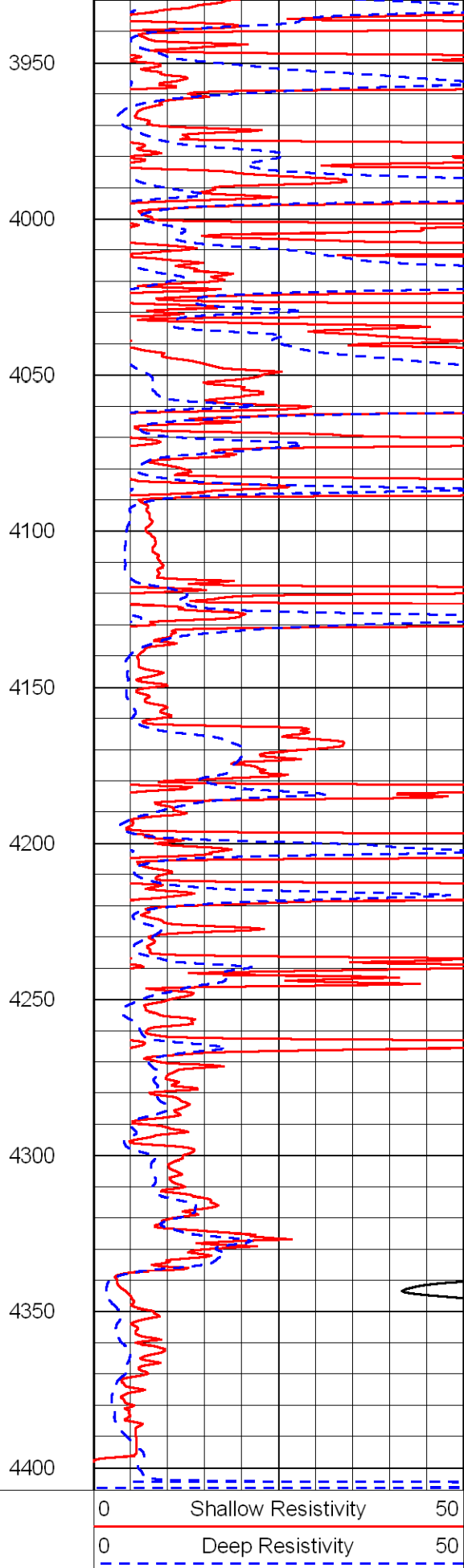
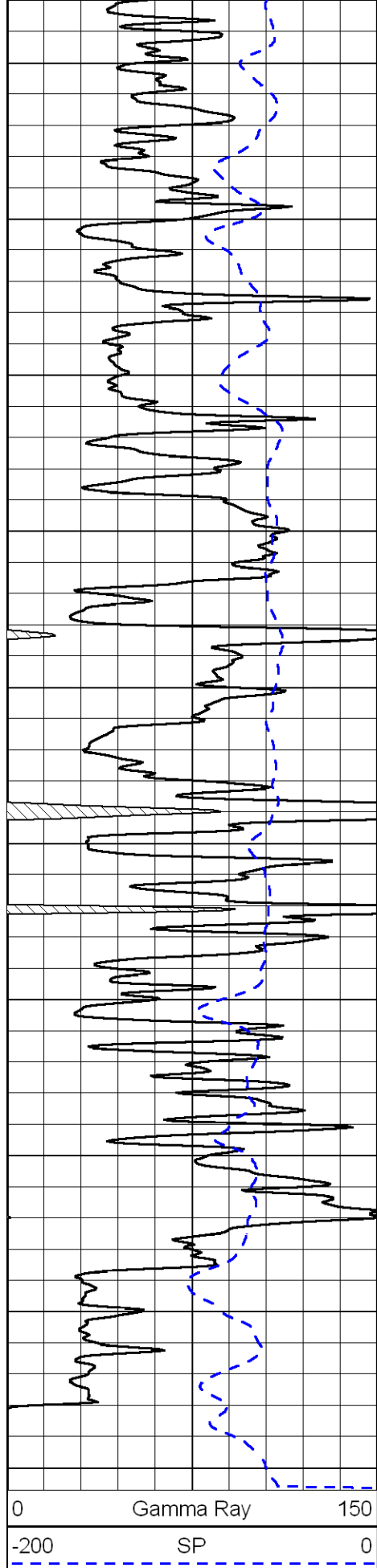
2300  
2350  
2400  
2450  
2500  
2550  
2600  
2650  
2700  
2750  
2800



-98  
-98  
-98  
-97  
-97  
-97  
-97  
-97  
-100  
-100  
-100







0 150

-200 0

1000 Conductivity 0

15000 Line Tension 0

50 Shallow Resistivity 500

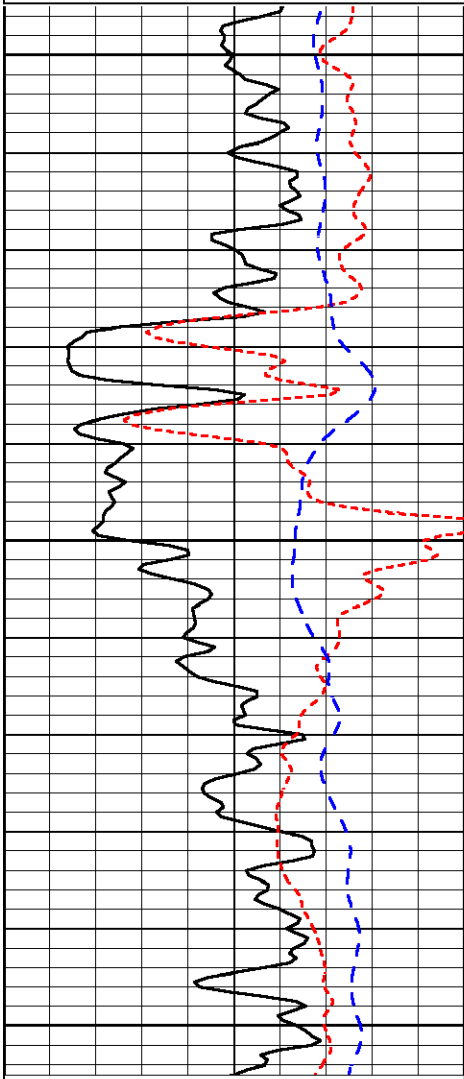
50 Deep Resistivity 500

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 Dataset Creation: Fri Feb 17 13:04:01 2012  
 Charted by: Depth in Feet scaled 1:240

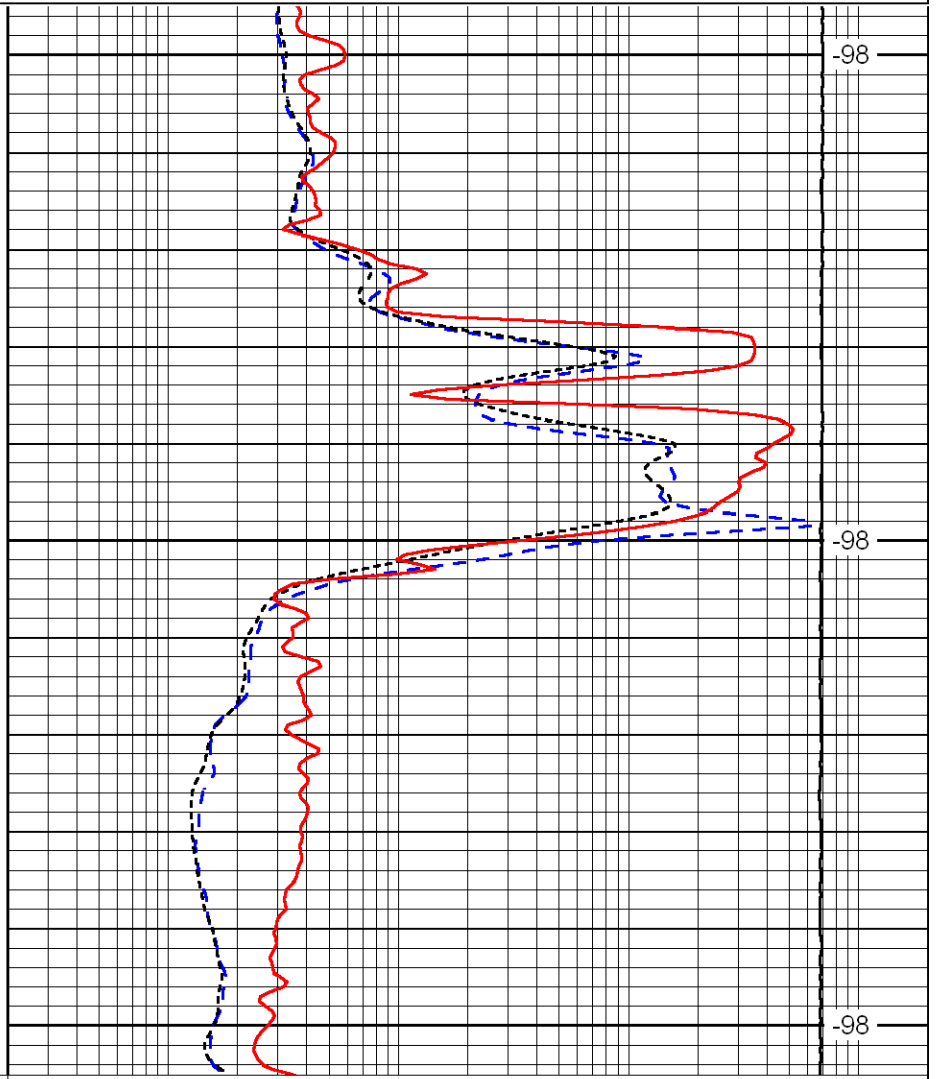
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-160	RXO/RT	40
-200	SP	0

0.2	Deep Resistivity	2000
0.2	Medium Resistivity	2000
0.2	Shallow Resistivity	2000
10000	Line Tension	0

LSPD



1350  
1400  
1450



-98  
-98  
-98

0	Gamma Ray	150
-160	RXO/RT	40
-200	SP	0

0.2	Deep Resistivity	2000
0.2	Medium Resistivity	2000
0.2	Shallow Resistivity	2000
10000	Line Tension	0

LSPD

Database File: credohd.db  
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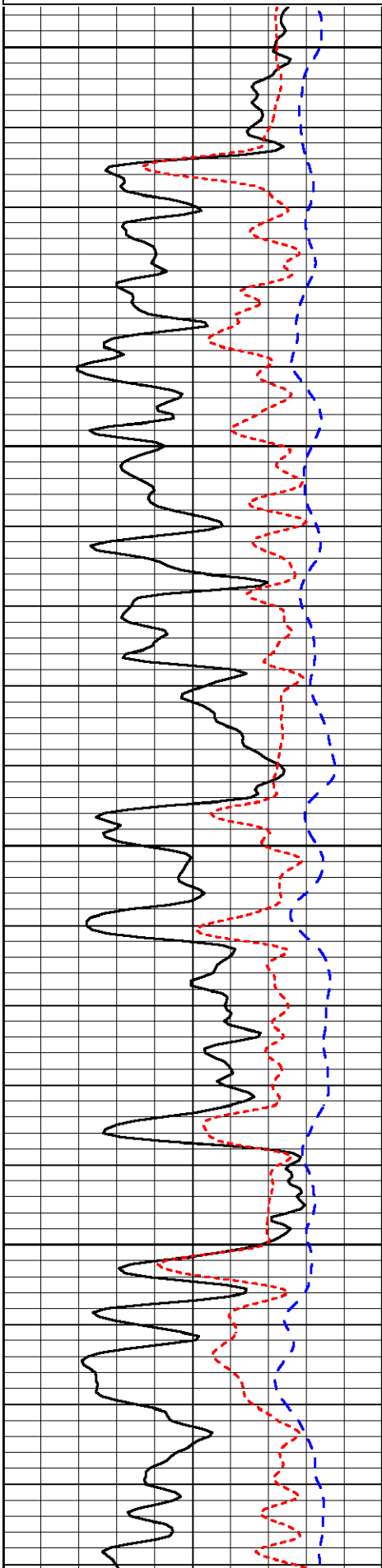
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0.2	Deep Resistivity	2000
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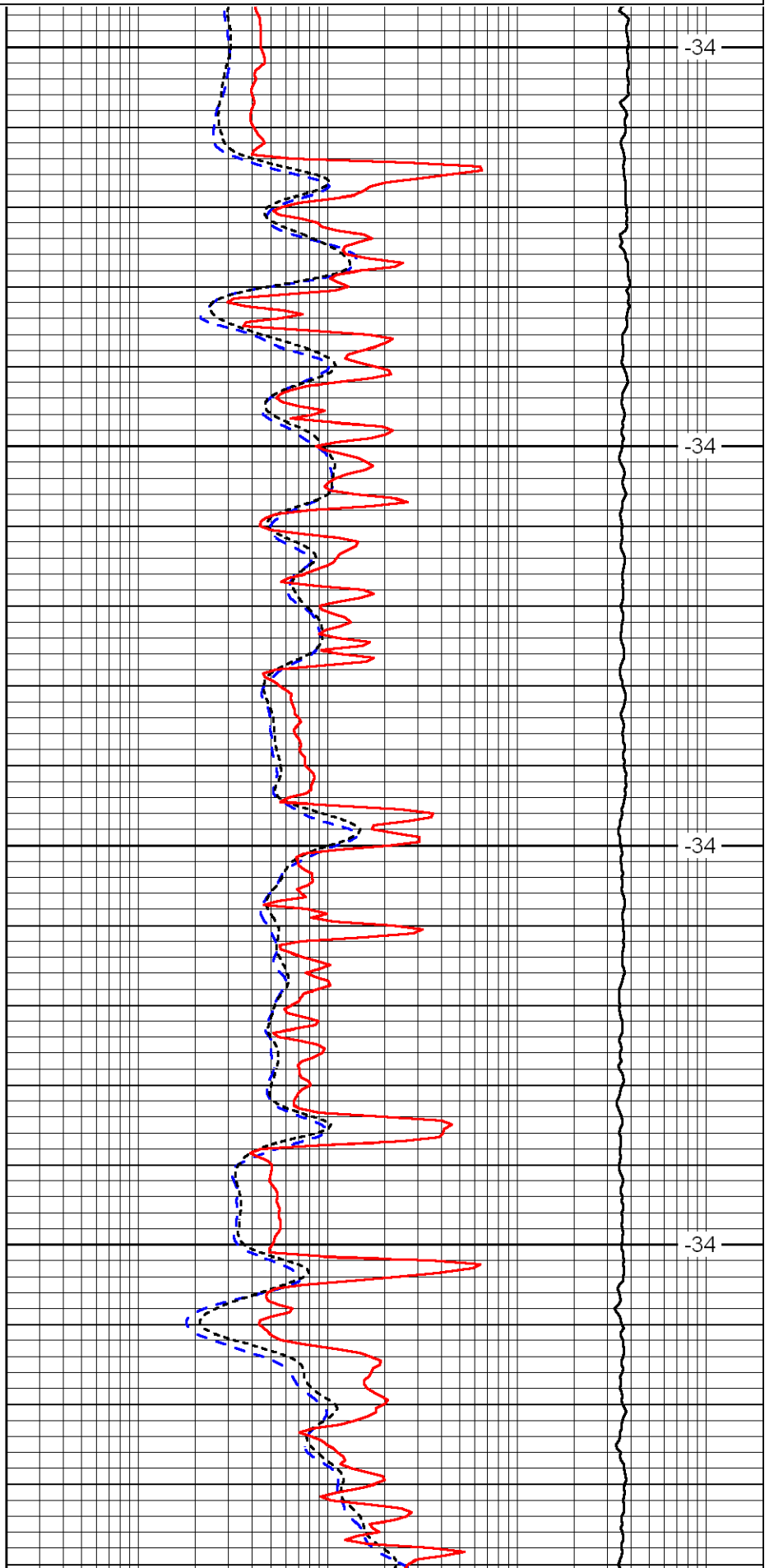
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-200	SP	0

0.2	Medium Resistivity	2000
0.2	Shallow Resistivity	2000
10000	Line Tension	0

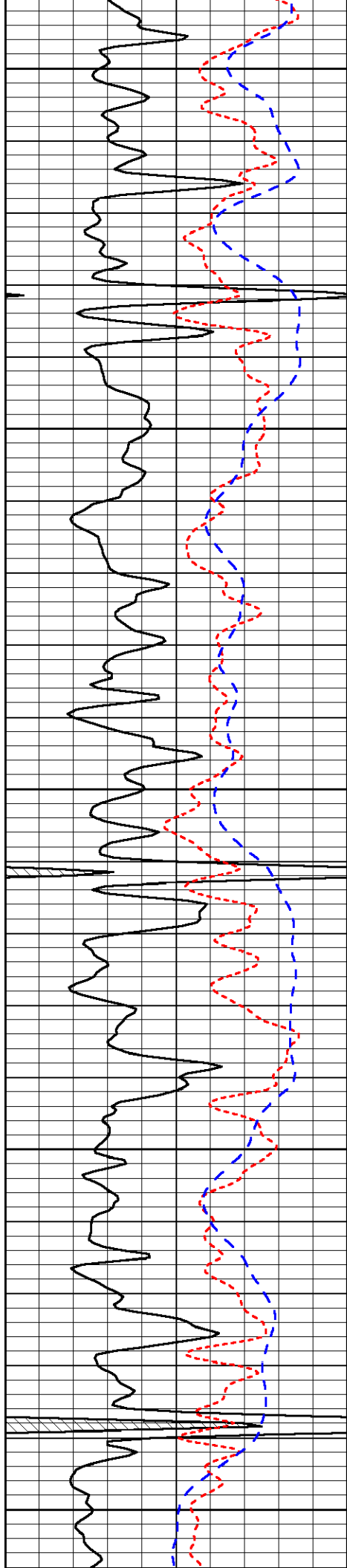
LSPD



3200  
3250  
3300  
3350



-34  
-34  
-34  
-34



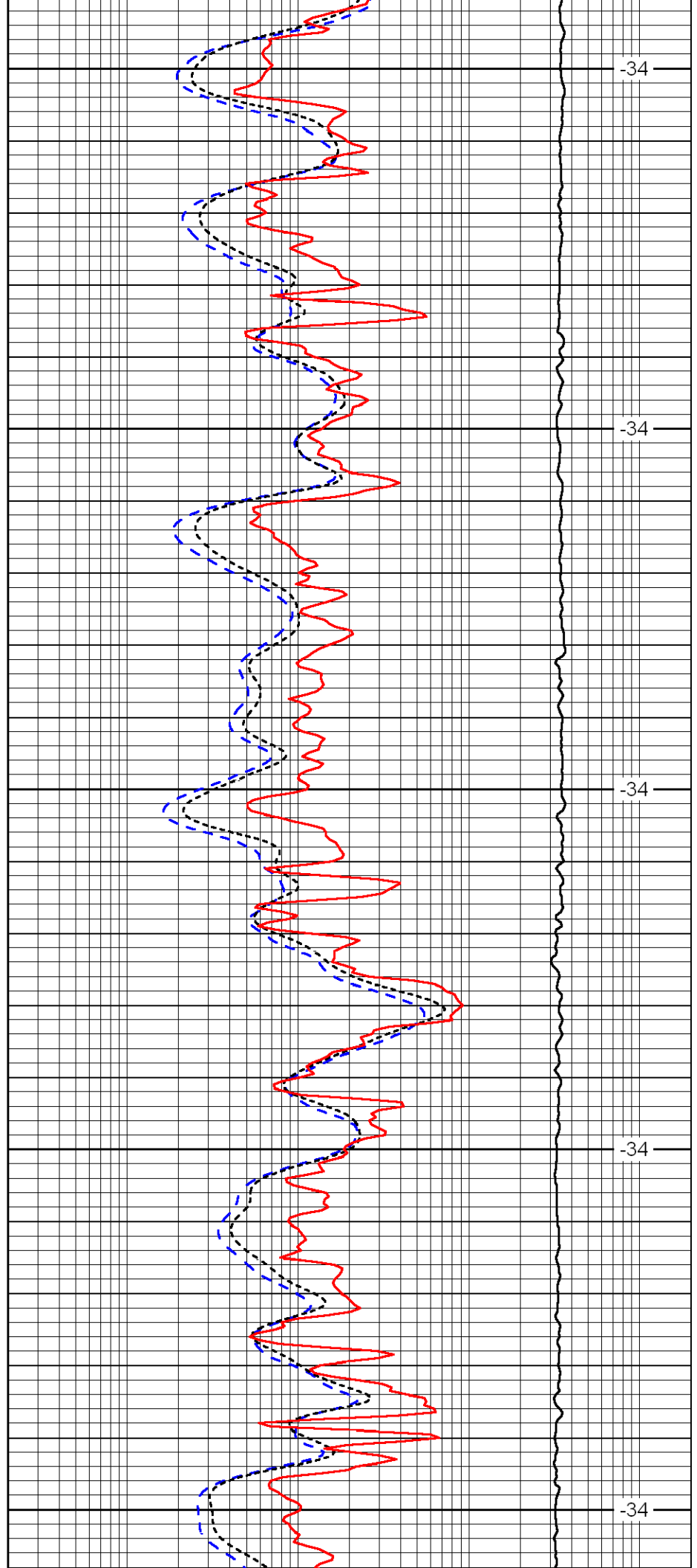
3400

3450

3500

3550

3600



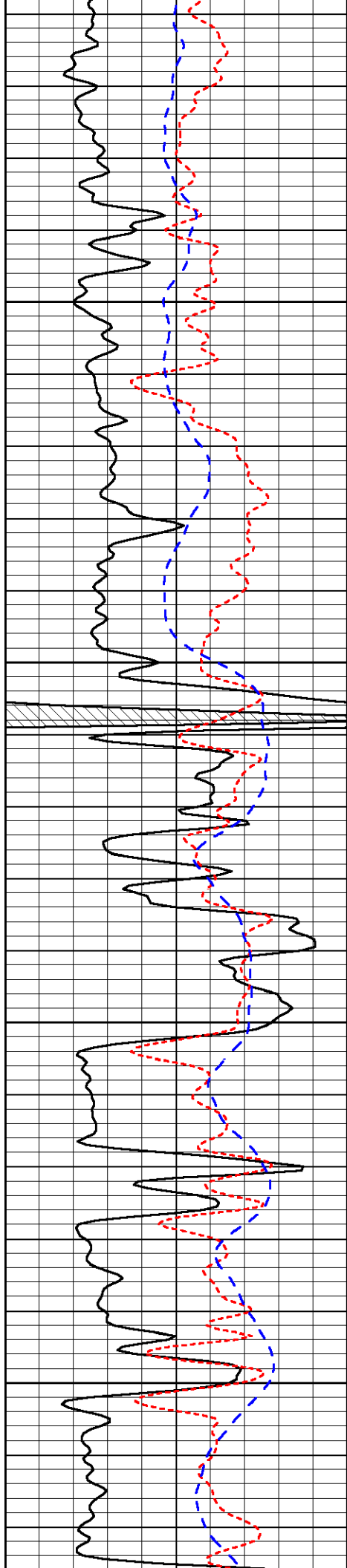
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-34

-34

-34

-34

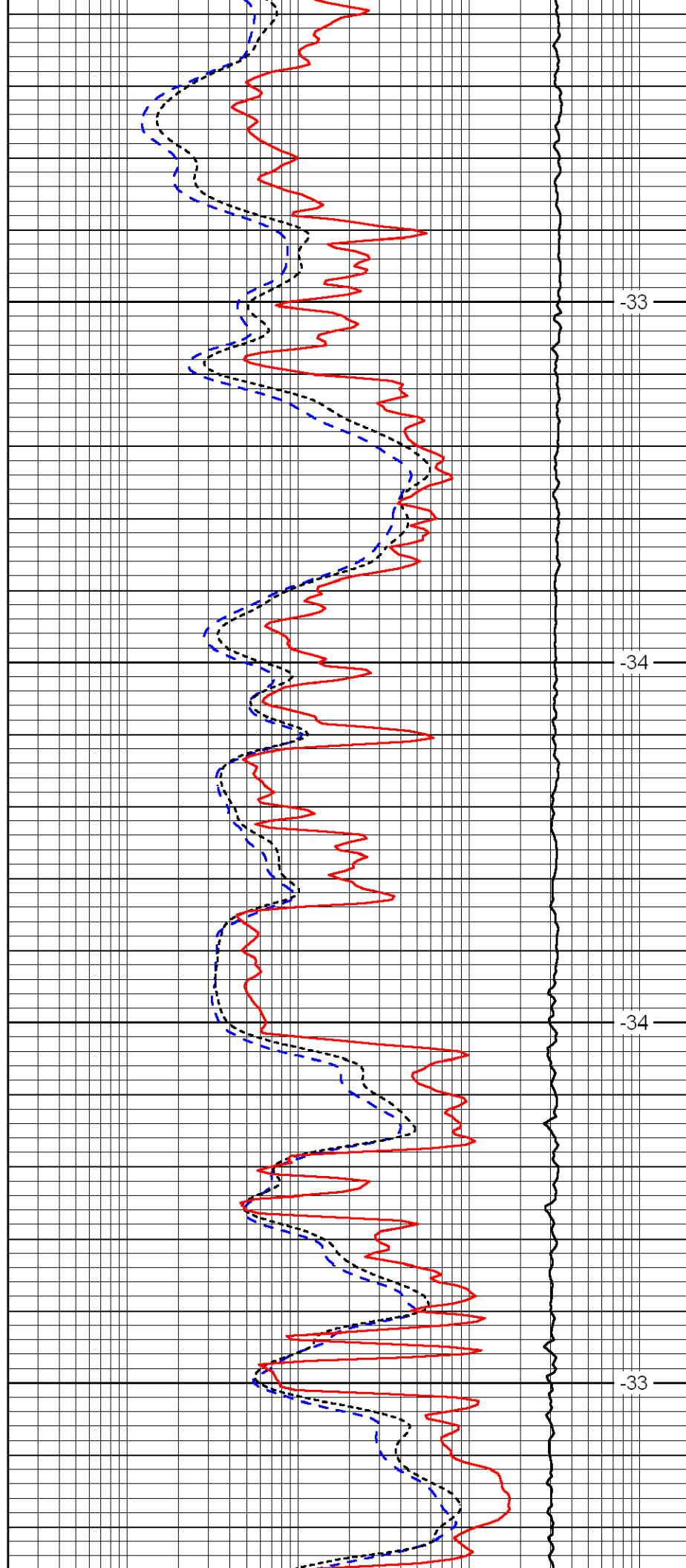


3650

3700

3750

3800

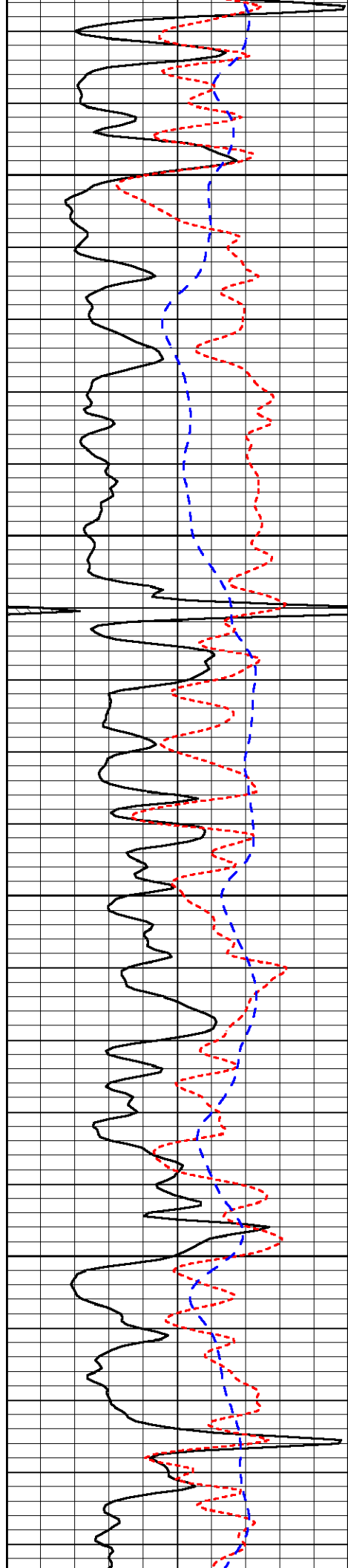


-33

-34

-34

-33

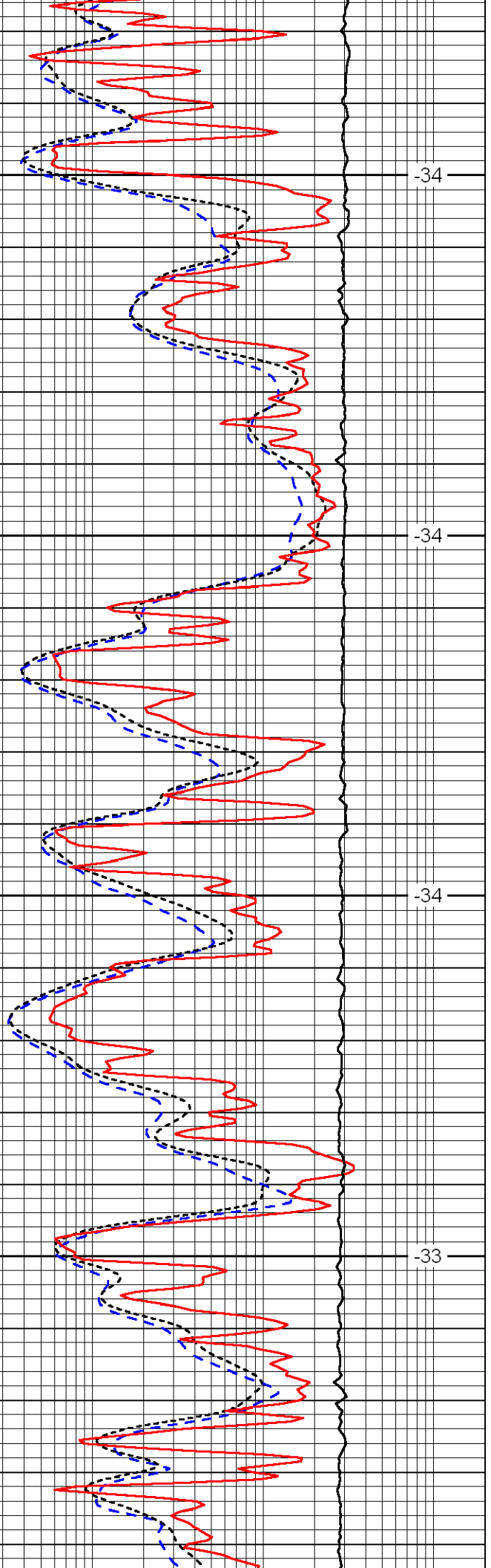


3850

3900

3950

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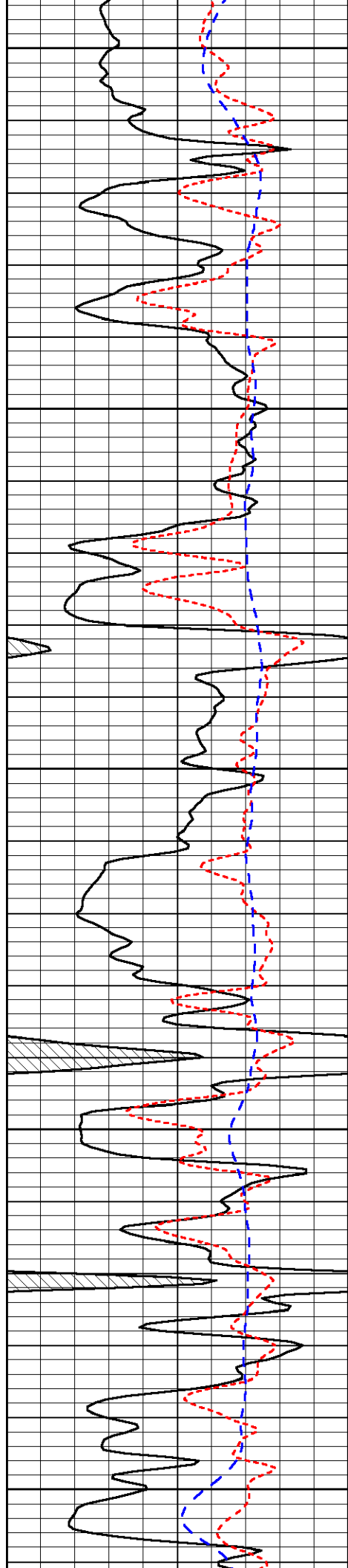


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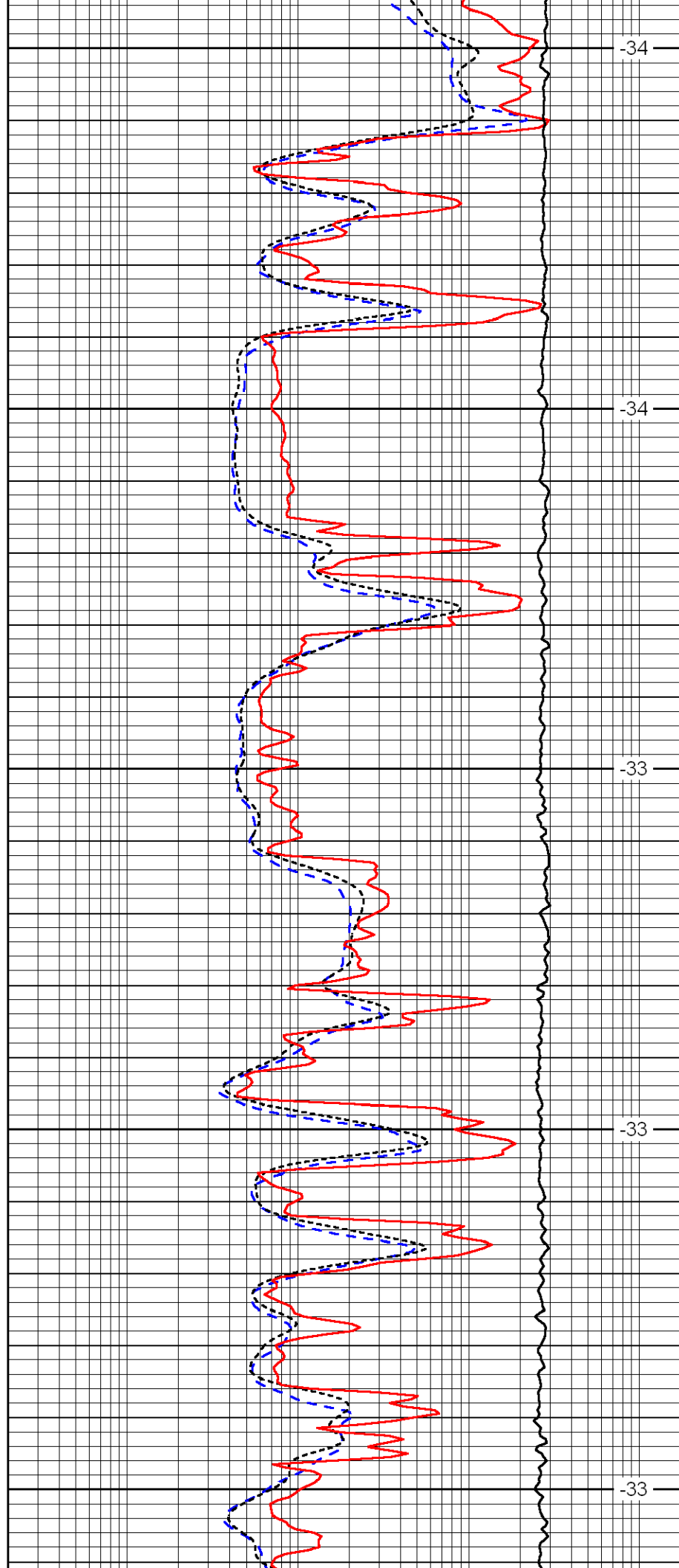
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4100

4150

4200

4250



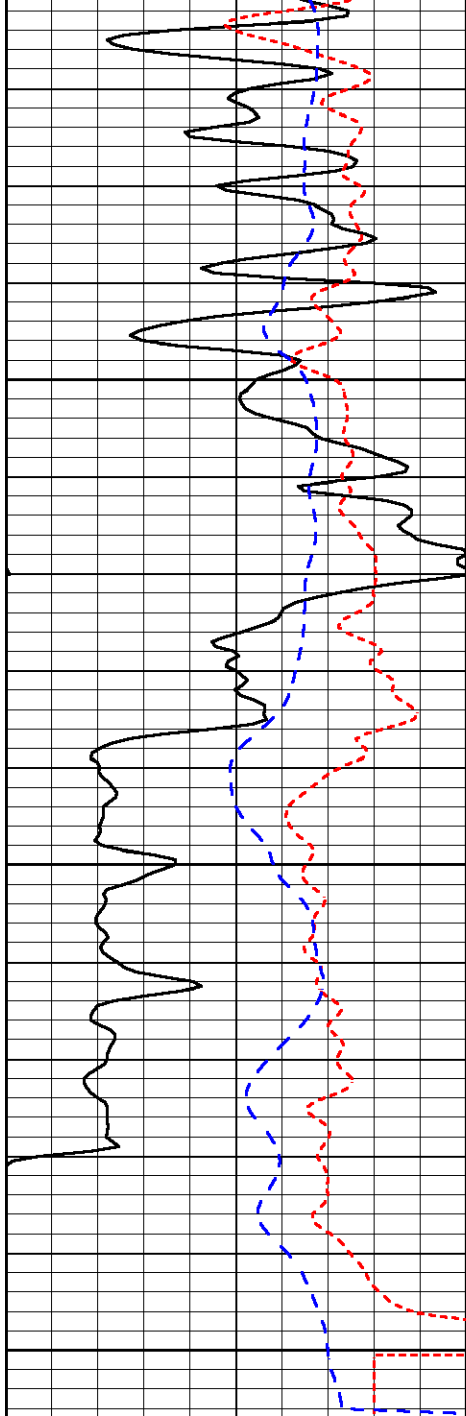
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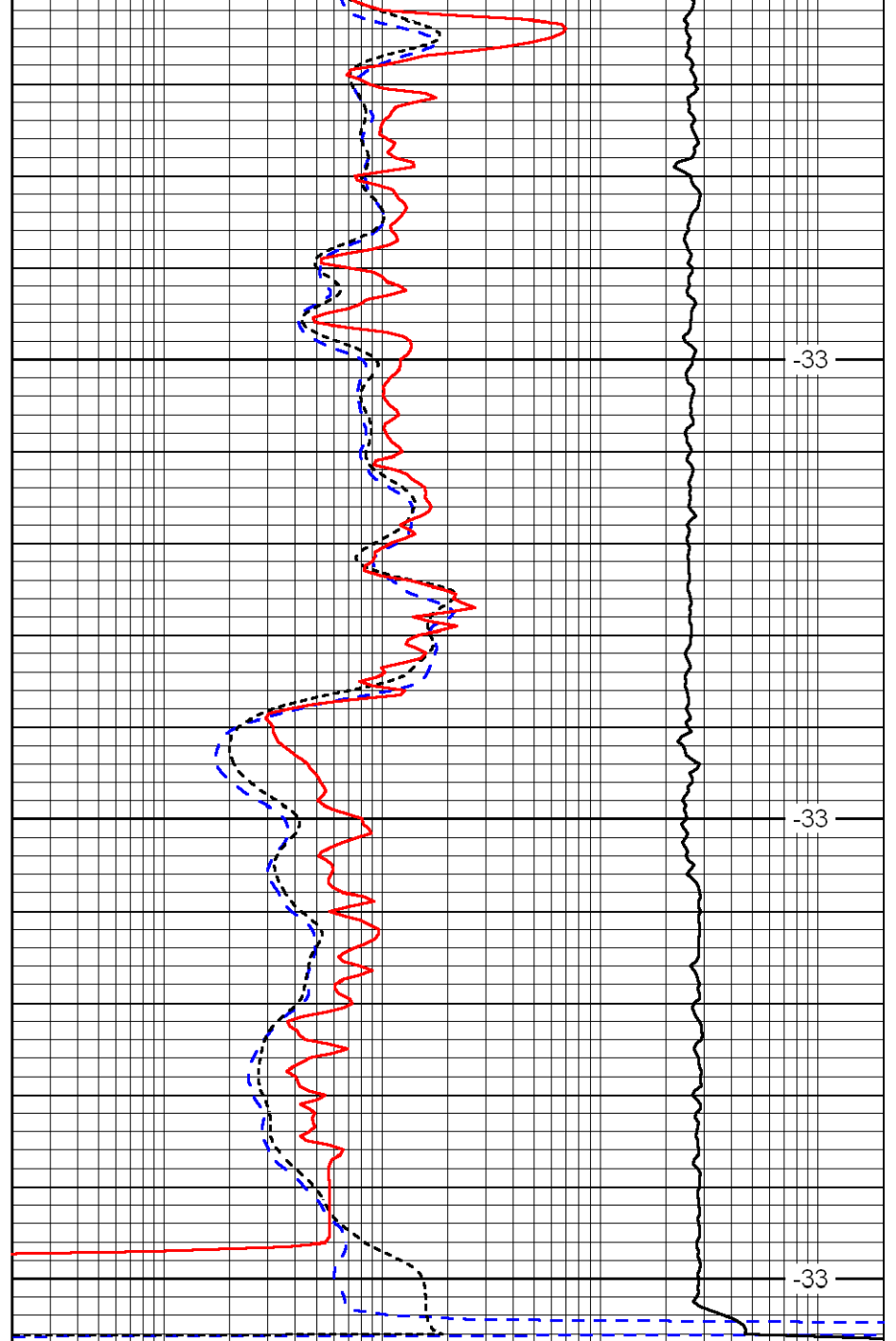


4300

4350

4400

0	Gamma Ray	150
-160	RXO/RT	40
-200	SP	0



-33

-33

-33

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0.2	Medium Resistivity	2000
0.2	Shallow Resistivity	2000
10000	Line Tension	0

LSPD