



**DIGITAL LOG**  
(785) 625-3858

Dual Induction Log

API No.	15-063-21,841-00-00		
Company	L.D. Drilling, Inc.		
Well	Darrel No. 1-31		
Field	Lundgren		
County	Gove	State	Kansas
Location	1,850' FSL & 330' FWL		
Sec:	31	Twp:	14S Rge: 29W
Permanent Datum	Ground Level	Elevation	2695
Log Measured From	Kelly Bushing	5	Ft. Above Perm. Datum
Drilling Measured From	Kelly Bushing		
		Other Services	CNL/CDL MEL/RAG
		Elevation	K.B. 2700 D.F. 2695 G.L. 2695

Date	7/14/2010
Run Number	One
Depth Driller	4465
Depth Logger	4464
Bottom Logged Interval	4463
Top Log Interval	250
Casing Driller	8.625 @ 267
Casing Logger	262
Bit Size	7.875
Type Fluid in Hole	Chemical
Salinity, ppm CL	3300
Density / Viscosity	9.2   48
pH / Fluid Loss	9.2   8.9
Source of Sample	Flowline
Rm @ Meas. Temp	.80 @ 84
Rmf @ Meas. Temp	.60 @ 84
Rmc @ Meas. Temp	1.08 @ 84
Source of Rmf / Rmc	Charts
Rm @ BHT	.56 @ 121
Operating Rig Time	4 Hours
Max Rec. Temp. F	121
Equipment Number	10
Location	Hays
Recorded By	J. Long
Witnessed By	Tom Funk

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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

Gove, West to Rd 26, 6 South to Rd M, 3 East to Rd 32, 4 South to Rd I, 1 East to Rd 34, 1 1/2 South, South Into

Database File: c:\warrior\data\ld drilling\_darrel no. 1-31\lddrilling.db  
 Dataset Pathname: dil\dstck  
 Presentation Format: dil2in  
 Dataset Creation: Wed Jul 14 23:29:34 2010  
 Charted by: Depth in Feet scaled 1:600

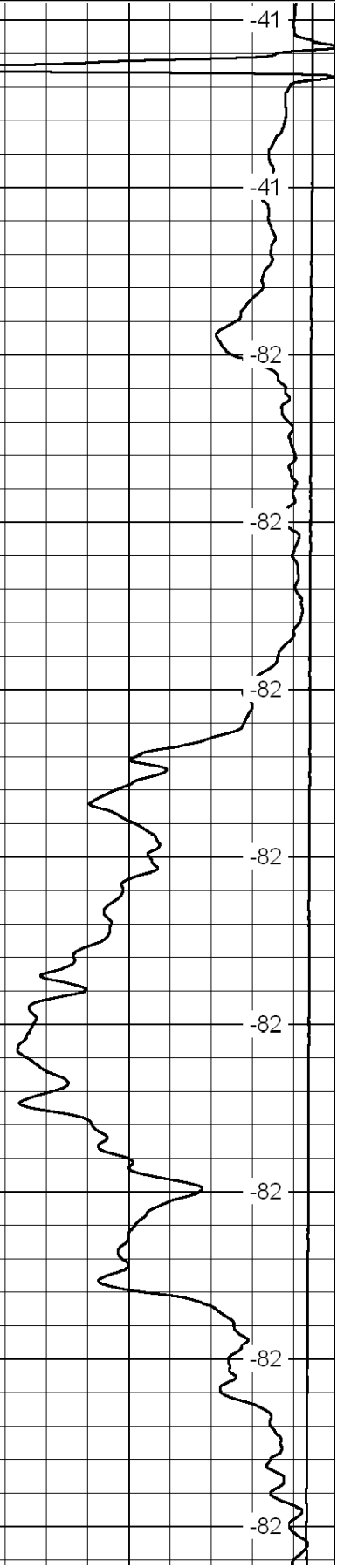
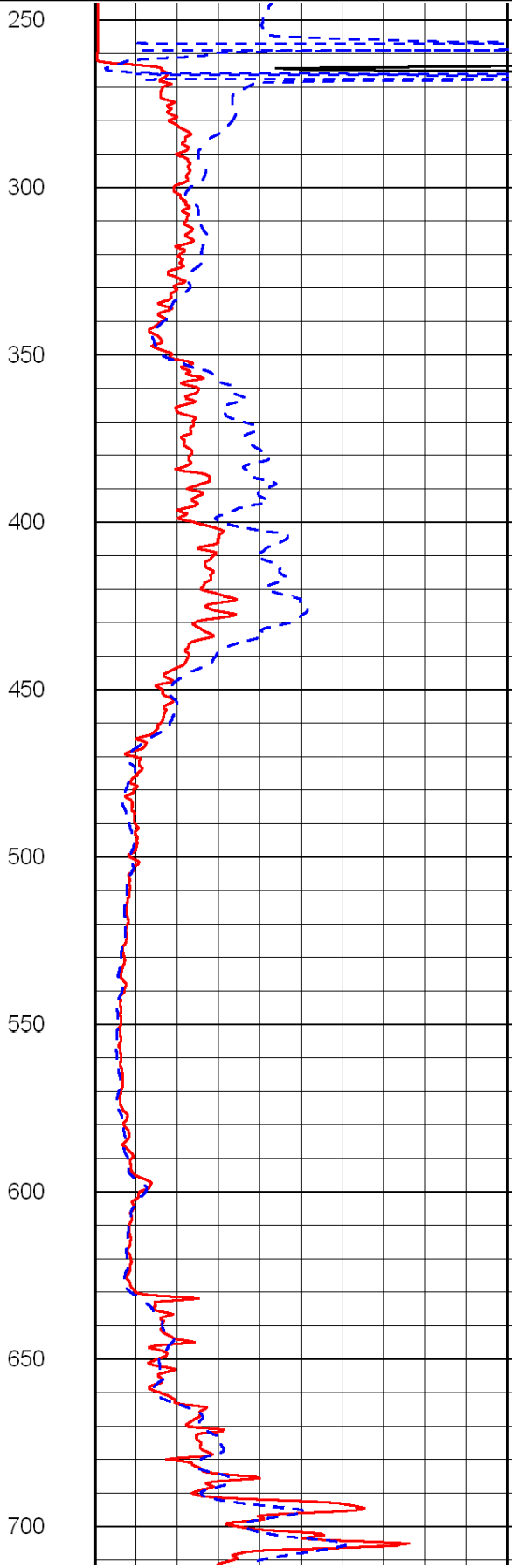
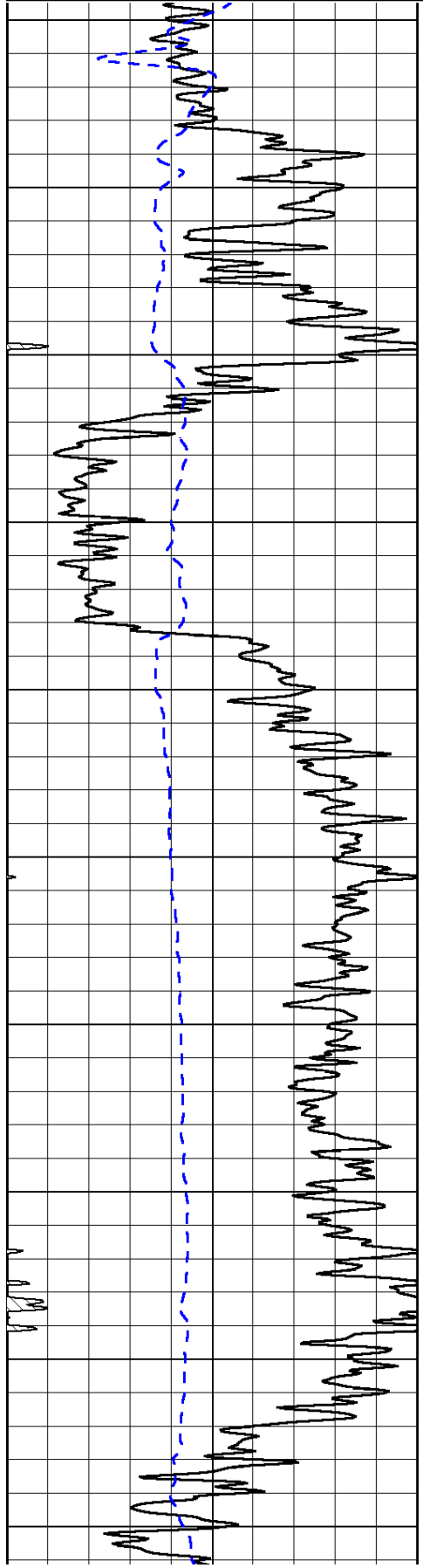
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-200	SP (mV)	0

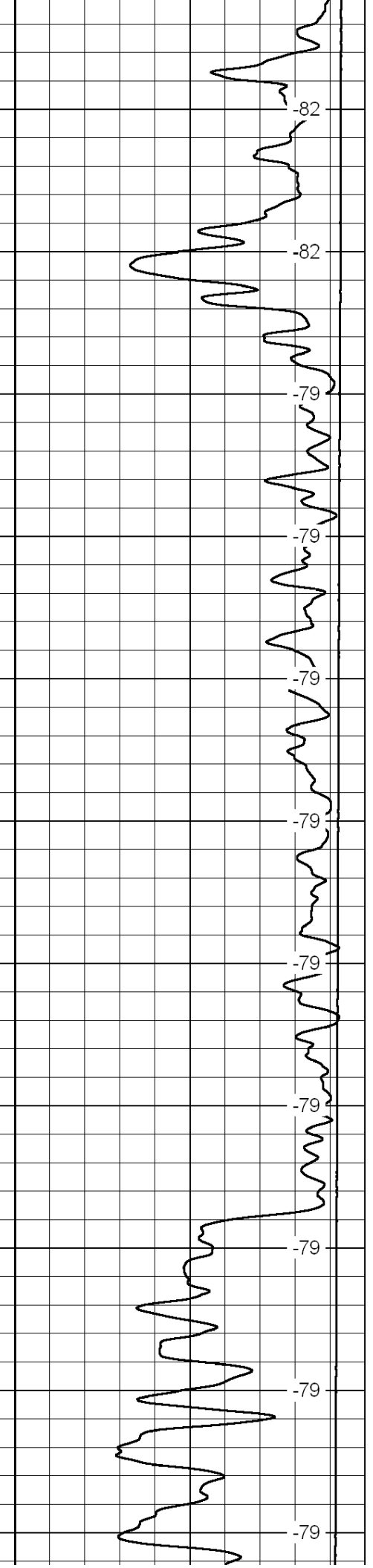
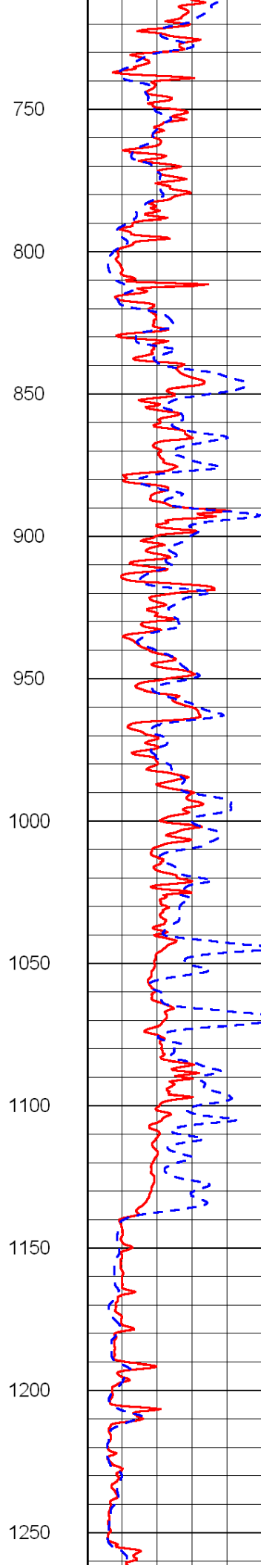
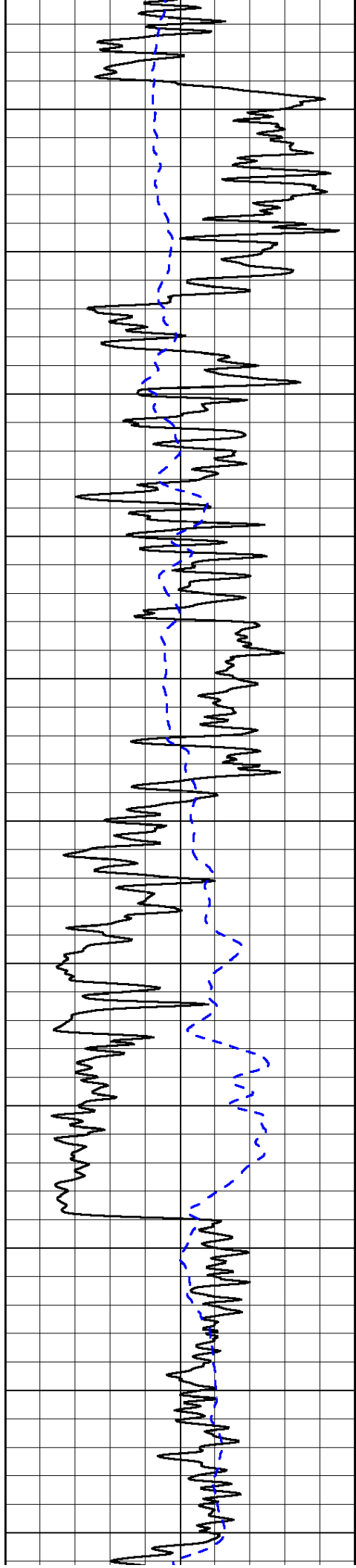
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0	Deep Resistivity	50

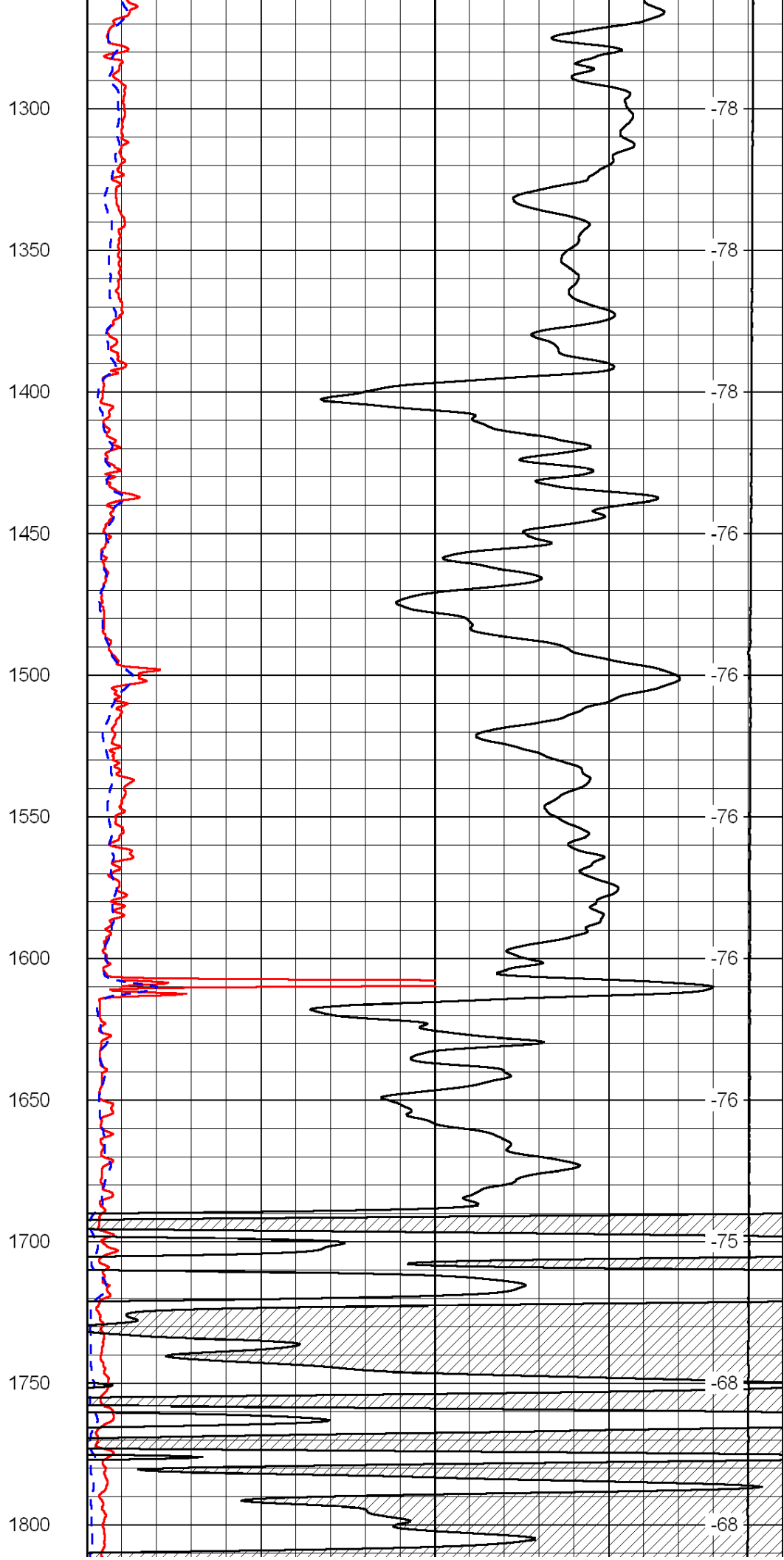
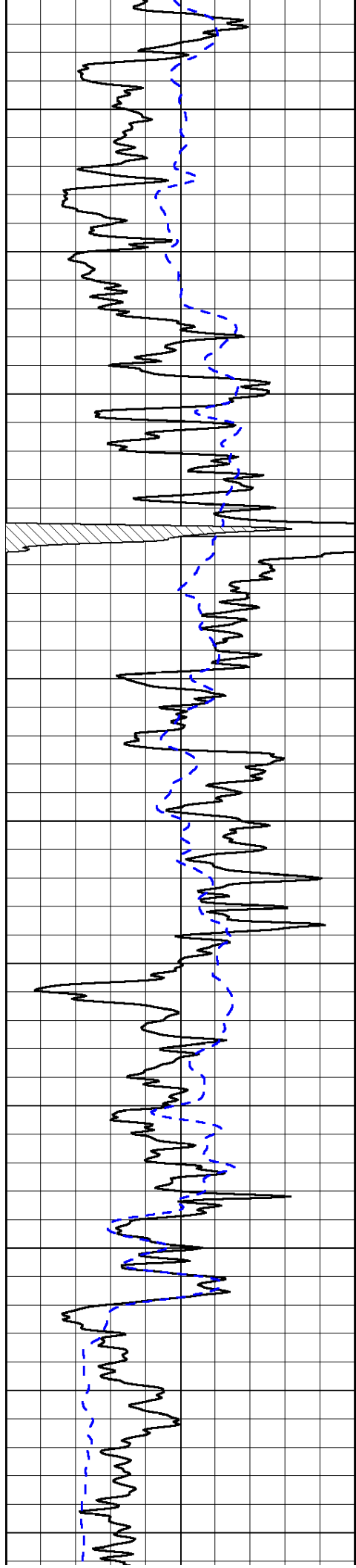
LSPD

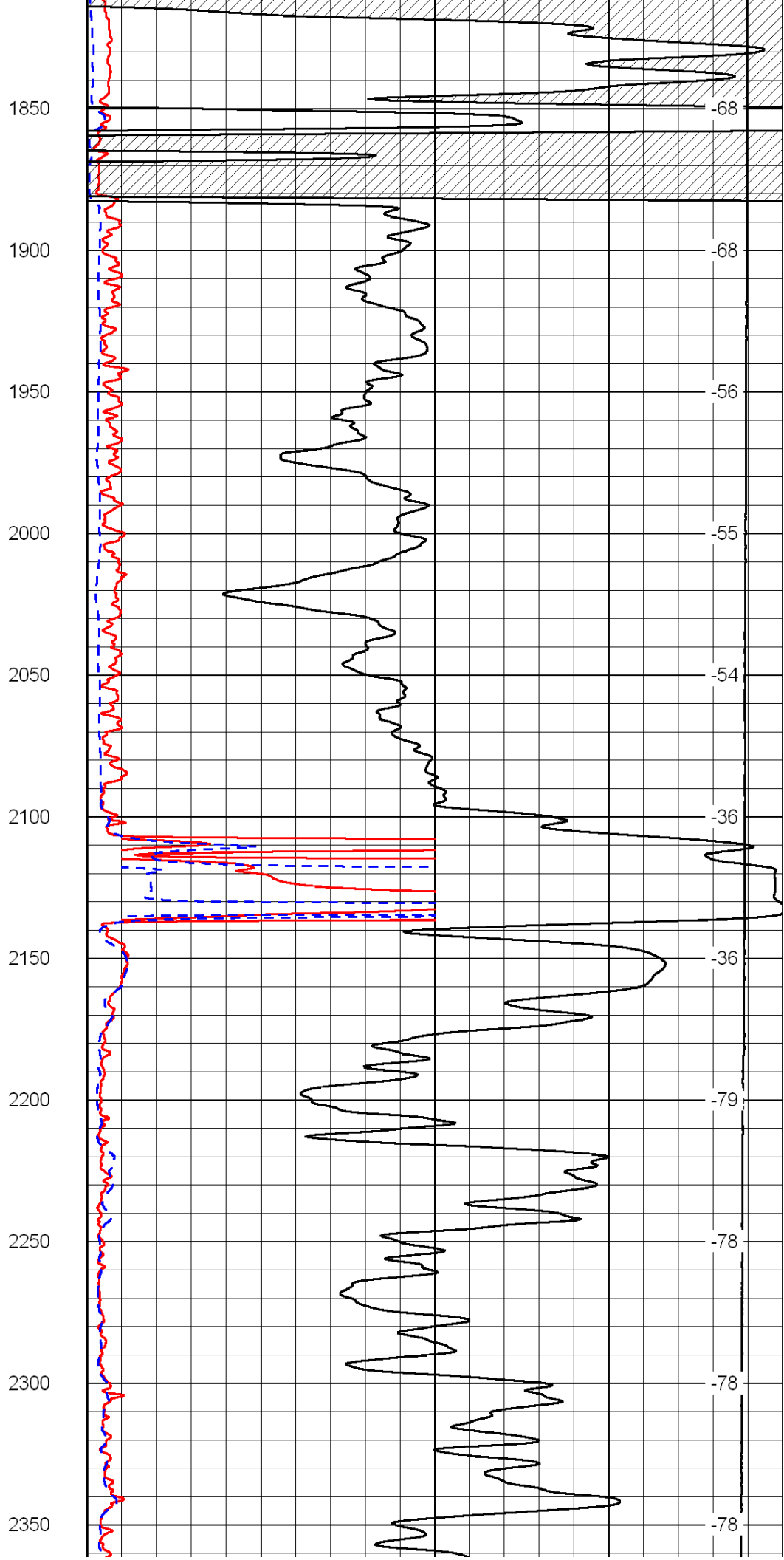
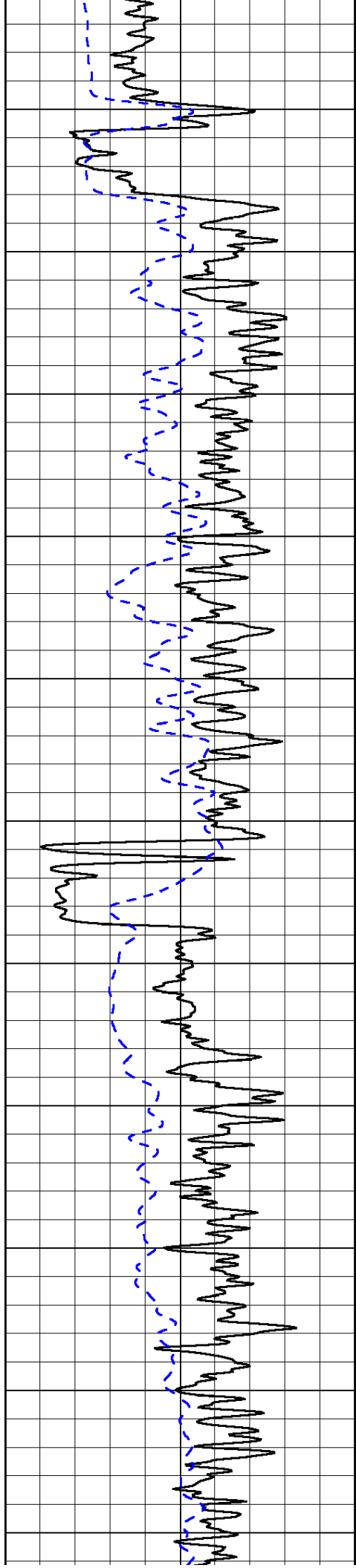
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15000	Line Tension	0

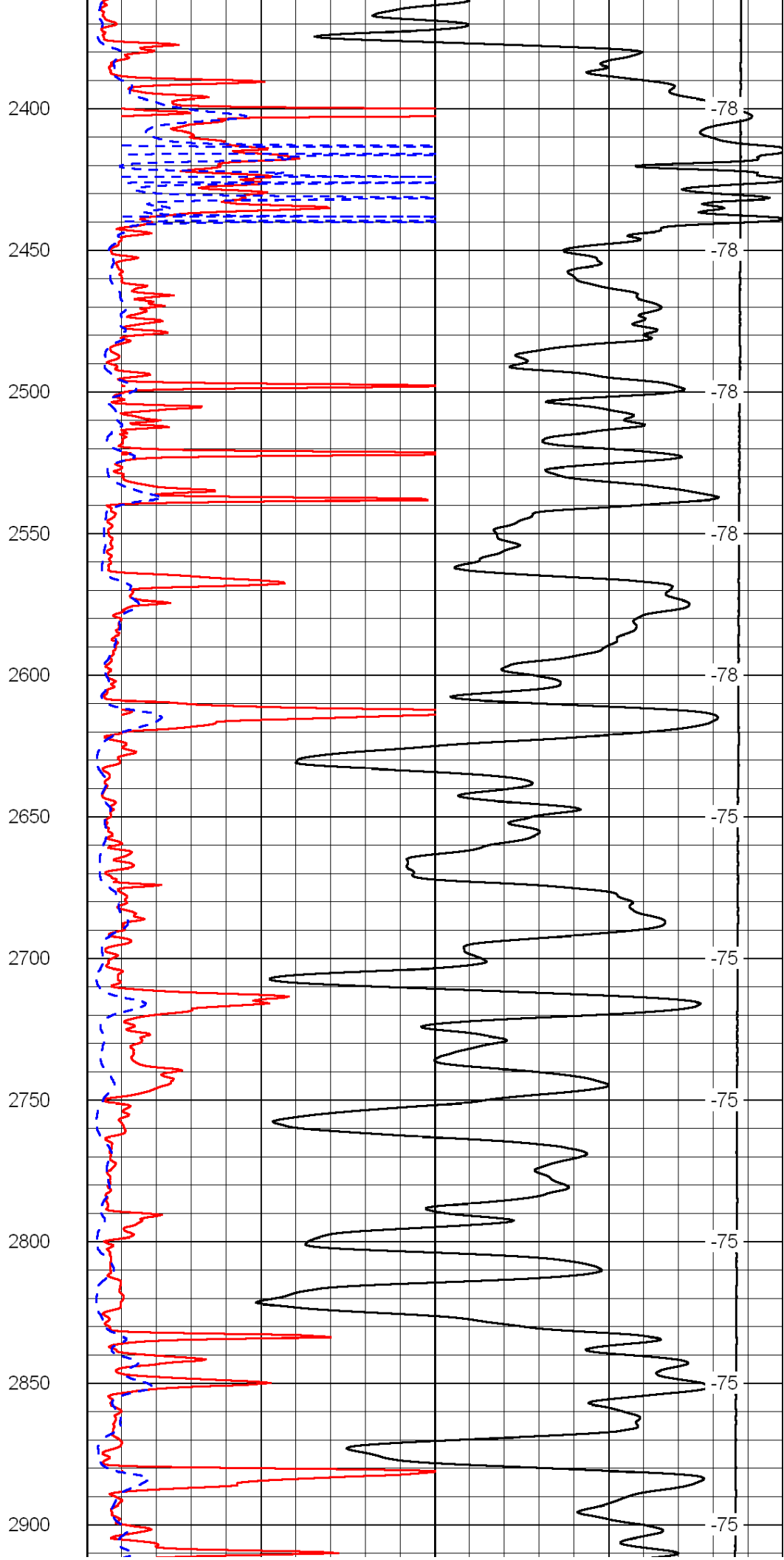
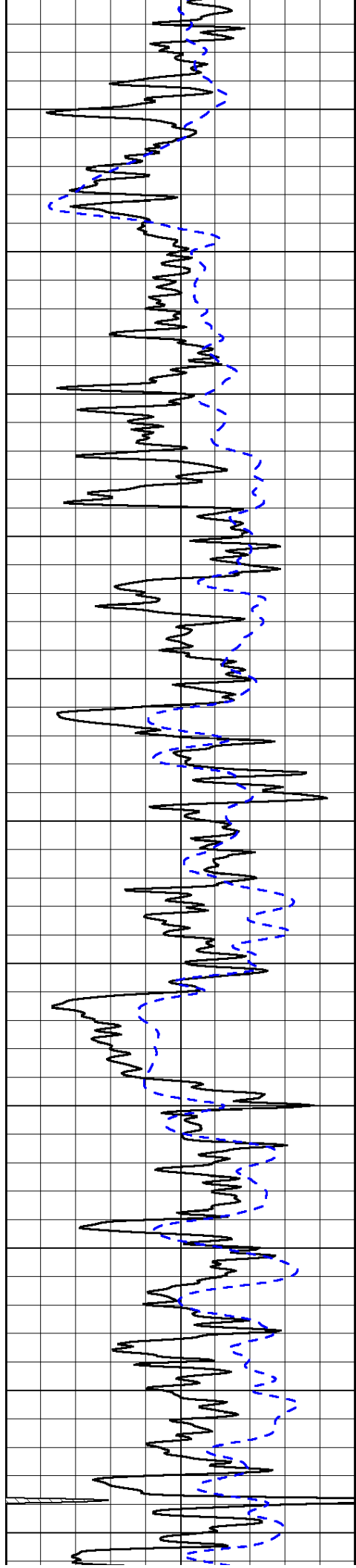
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50	Deep Resistivity	500

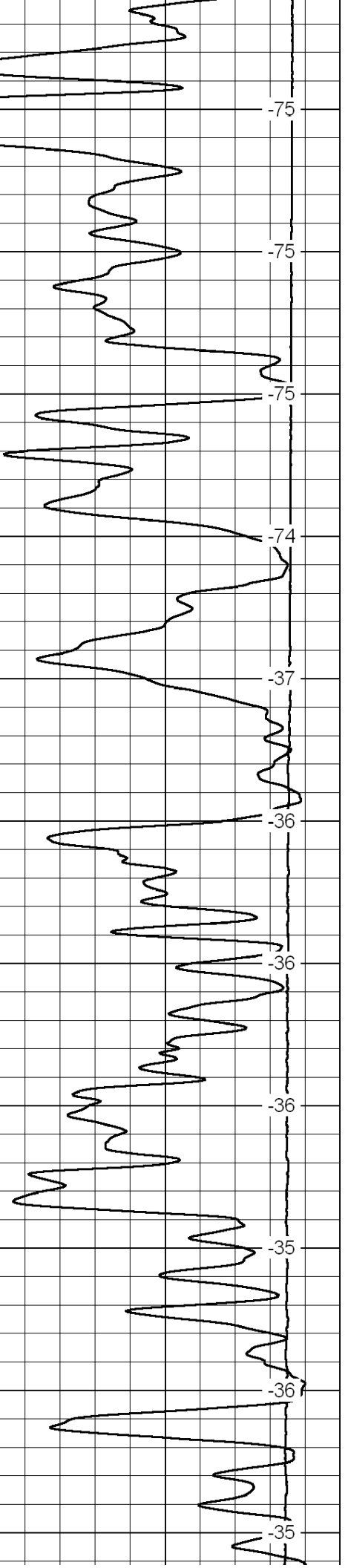
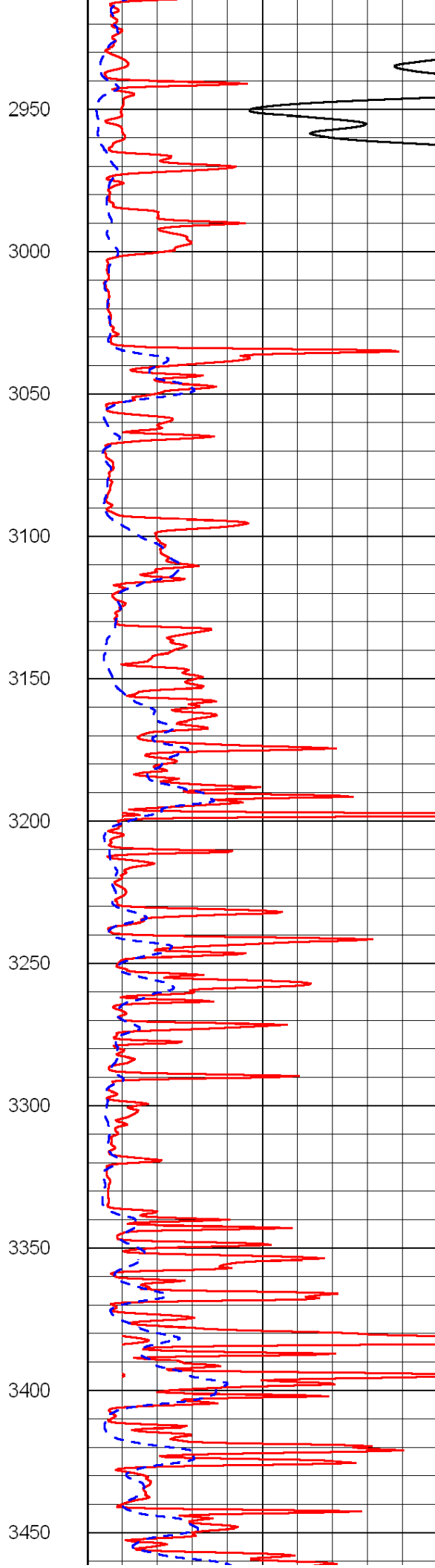
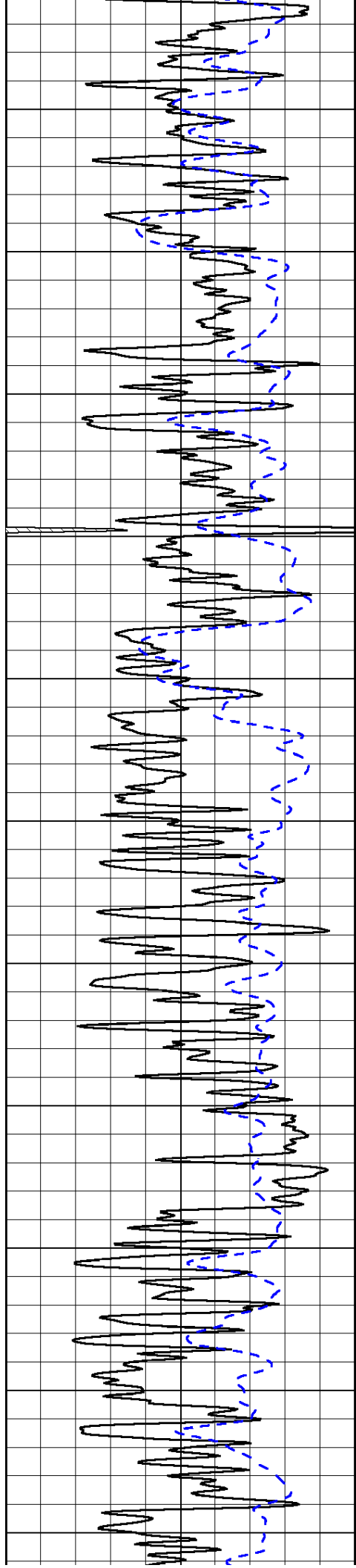


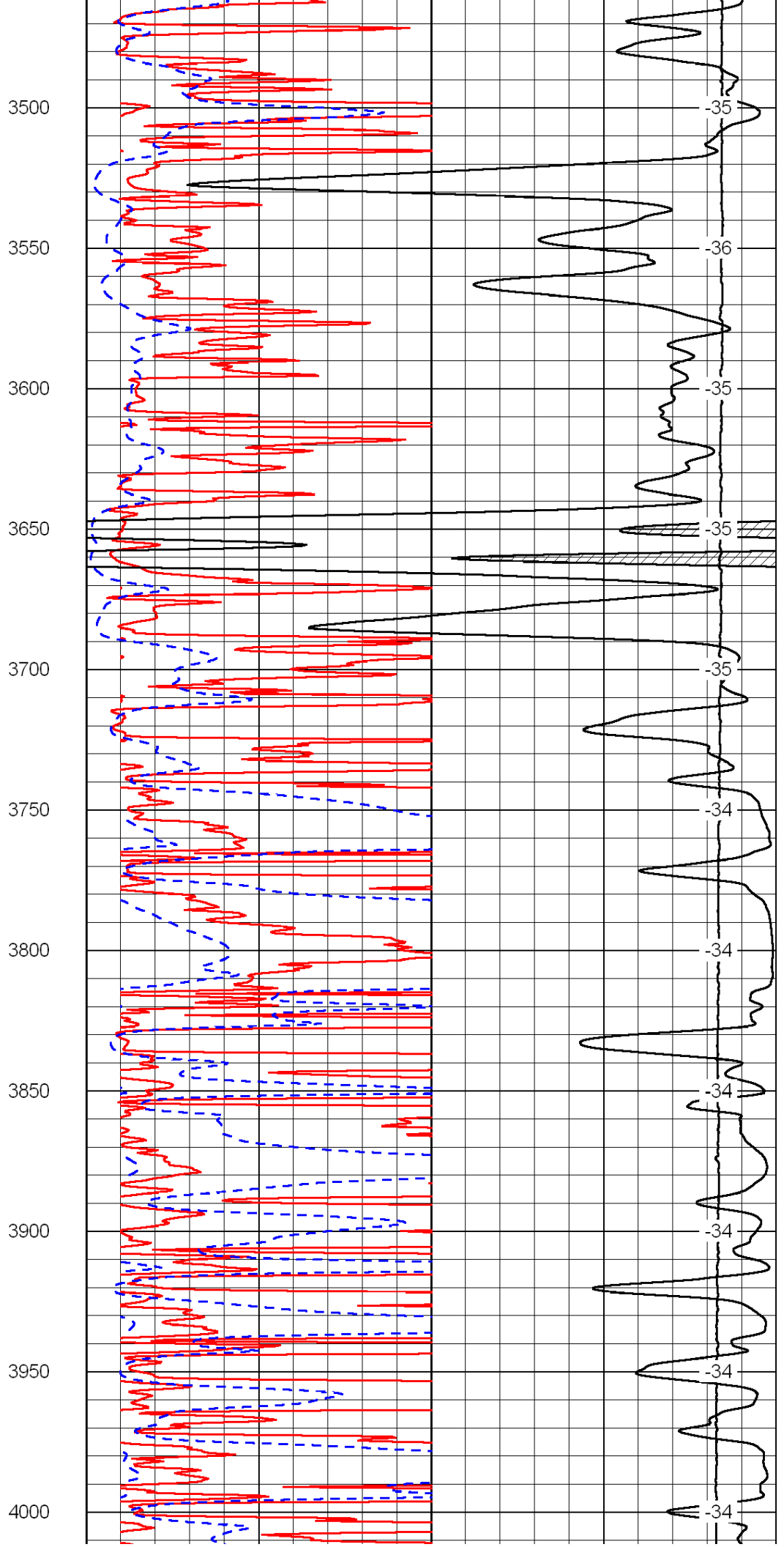
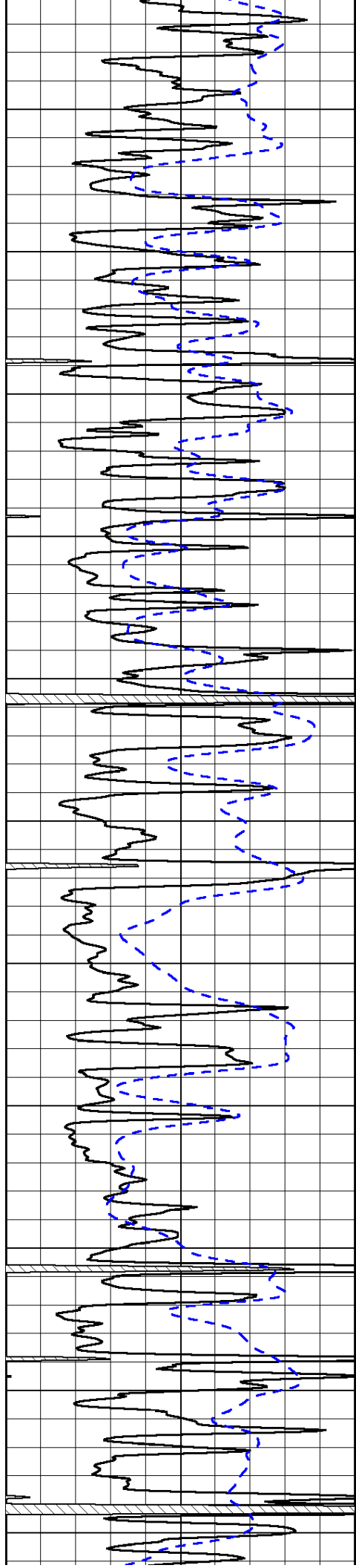


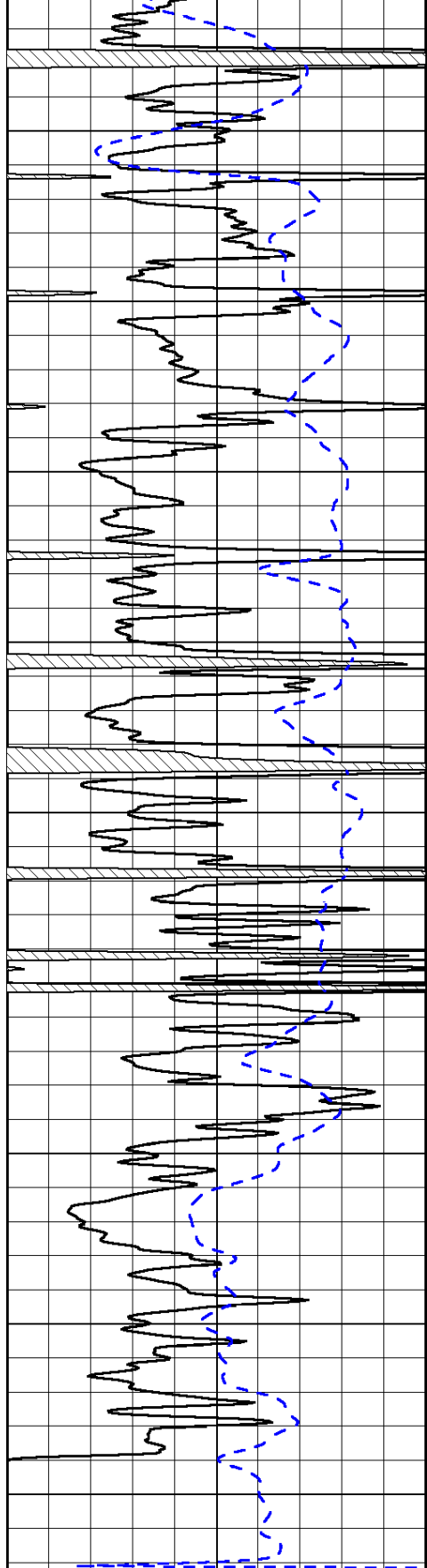




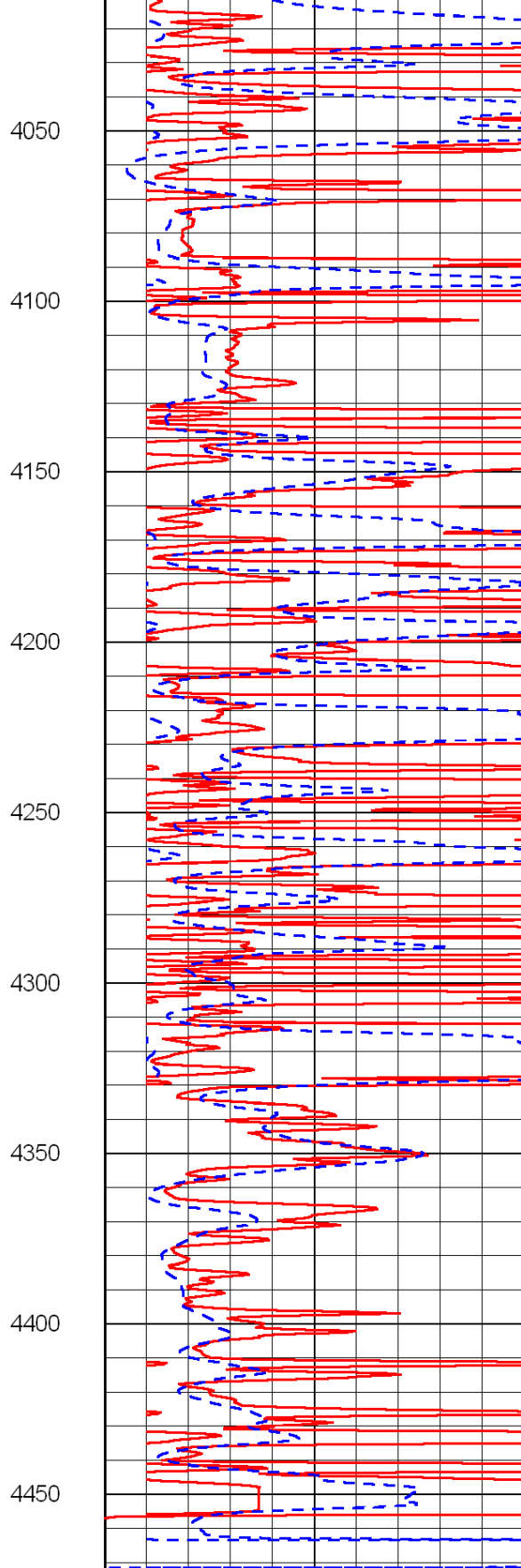




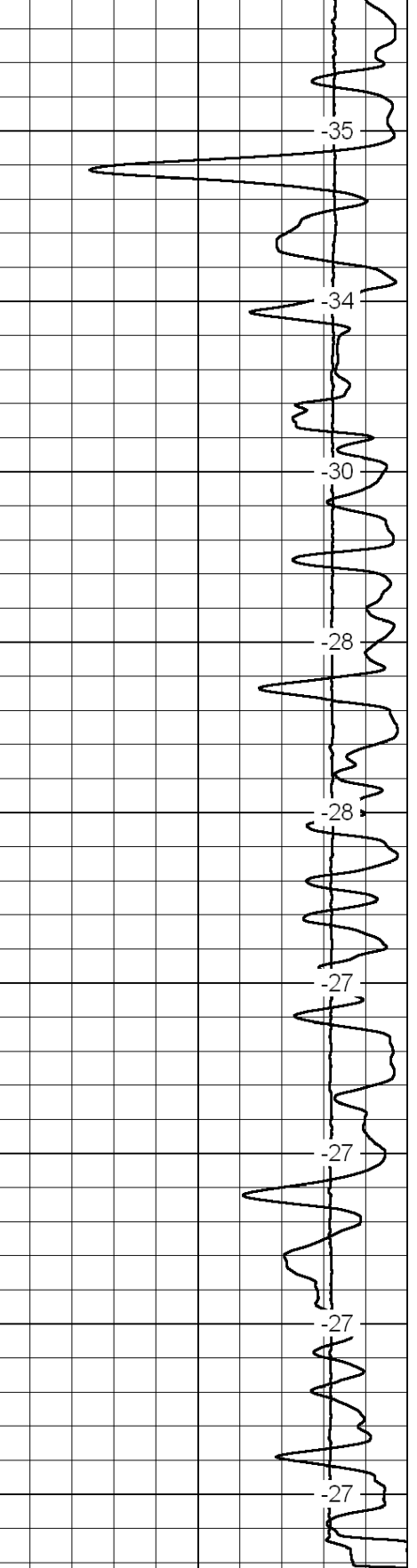




0      Gamma Ray      150  
 -200      SP (mV)      0



0      Shallow Resistivity      50  
 0      Deep Resistivity      50



LSPD

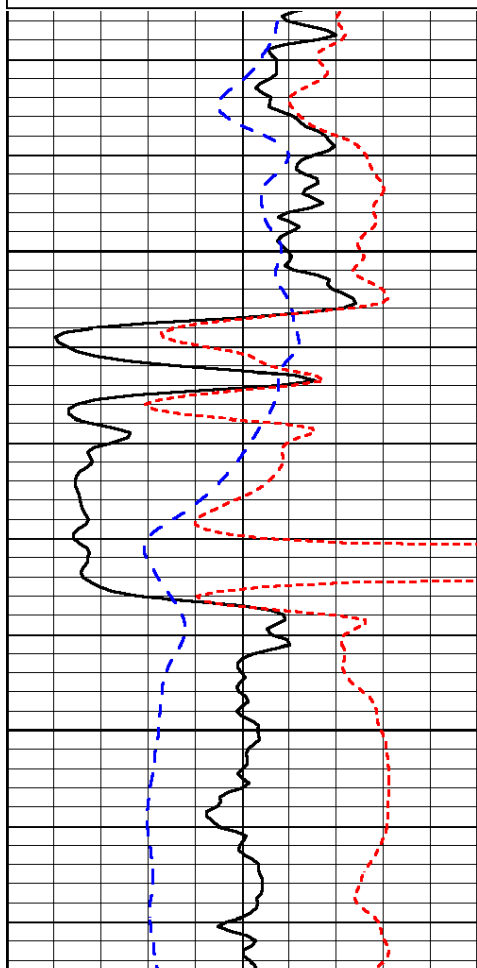
1000	Conductivity	0
15000	Line Tension	0
50	Shallow Resistivity	500
50	Deep Resistivity	500

Database File: c:\warrior\data\ld drilling\_darrel no. 1-31\lddrilling.db  
 Dataset Pathname: dil\ldstck  
 Presentation Format: dil  
 Dataset Creation: Wed Jul 14 23:29:34 2010  
 Charted by: Depth in Feet scaled 1:240

0	Gamma Ray	150
-200	SP (mV)	0
-160	Rxo / Rt	40

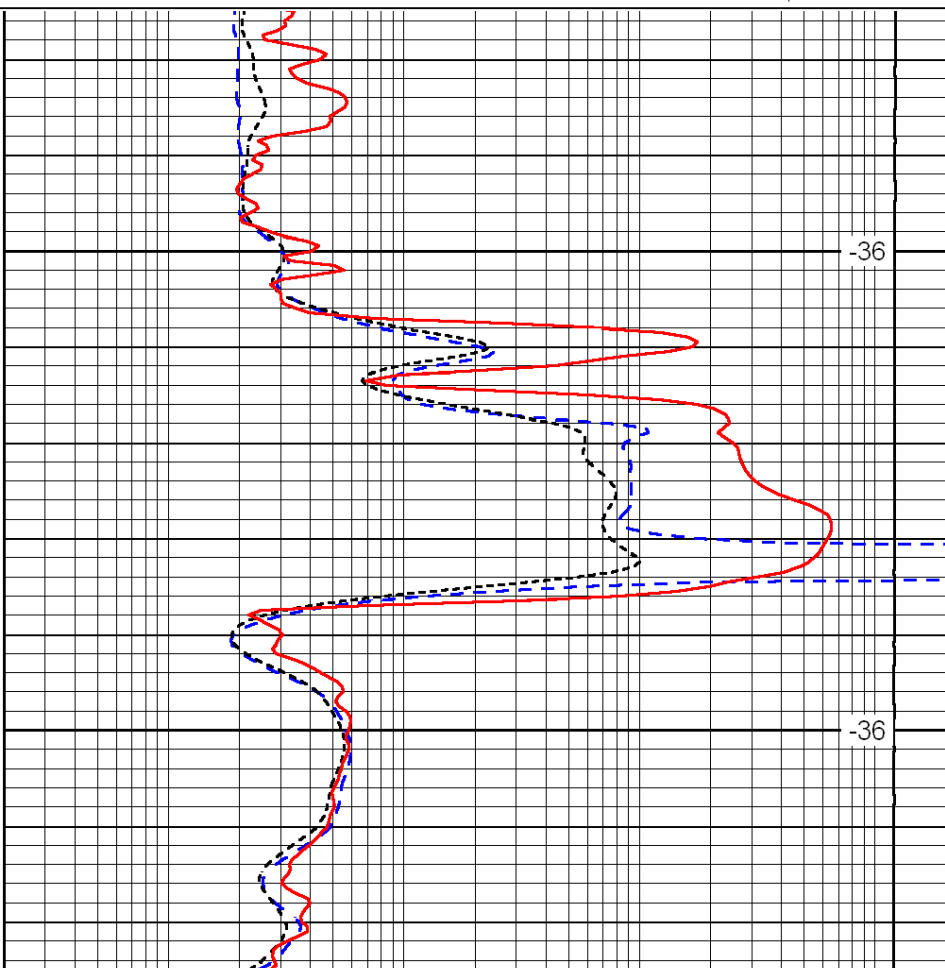
0.2	Deep Resistivity	2000
0.2	Medium Resistivity	2000
0.2	Shallow Resistivity	2000
15000	Line Tension	0

LSPD



2100

2150



-36

-36

0	Gamma Ray	150
-200	SP (mV)	0
-160	Rxo / Rt	40

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

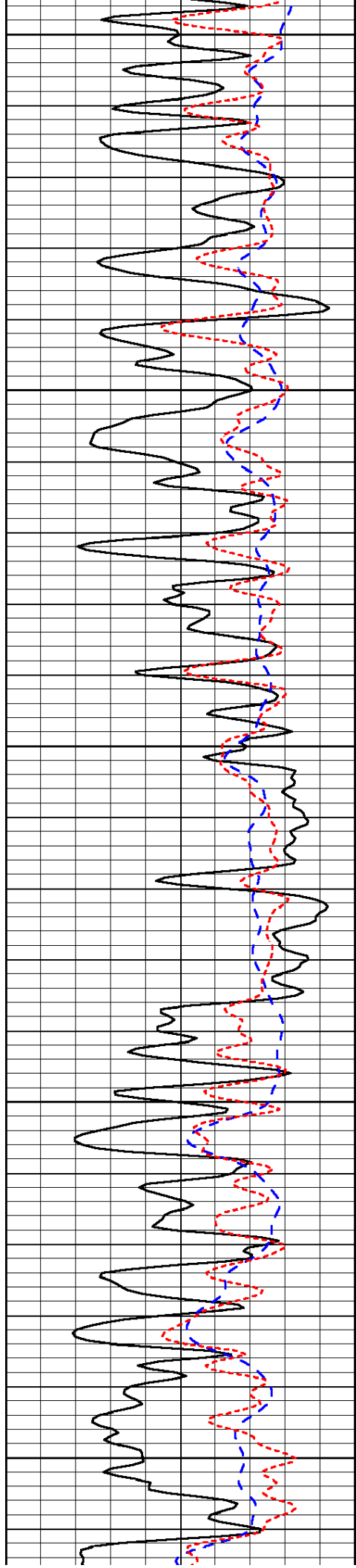
LSPD

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0	Gamma Ray	150
-200	SP (mV)	0
-160	Rxo / Rt	40

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

LSPD



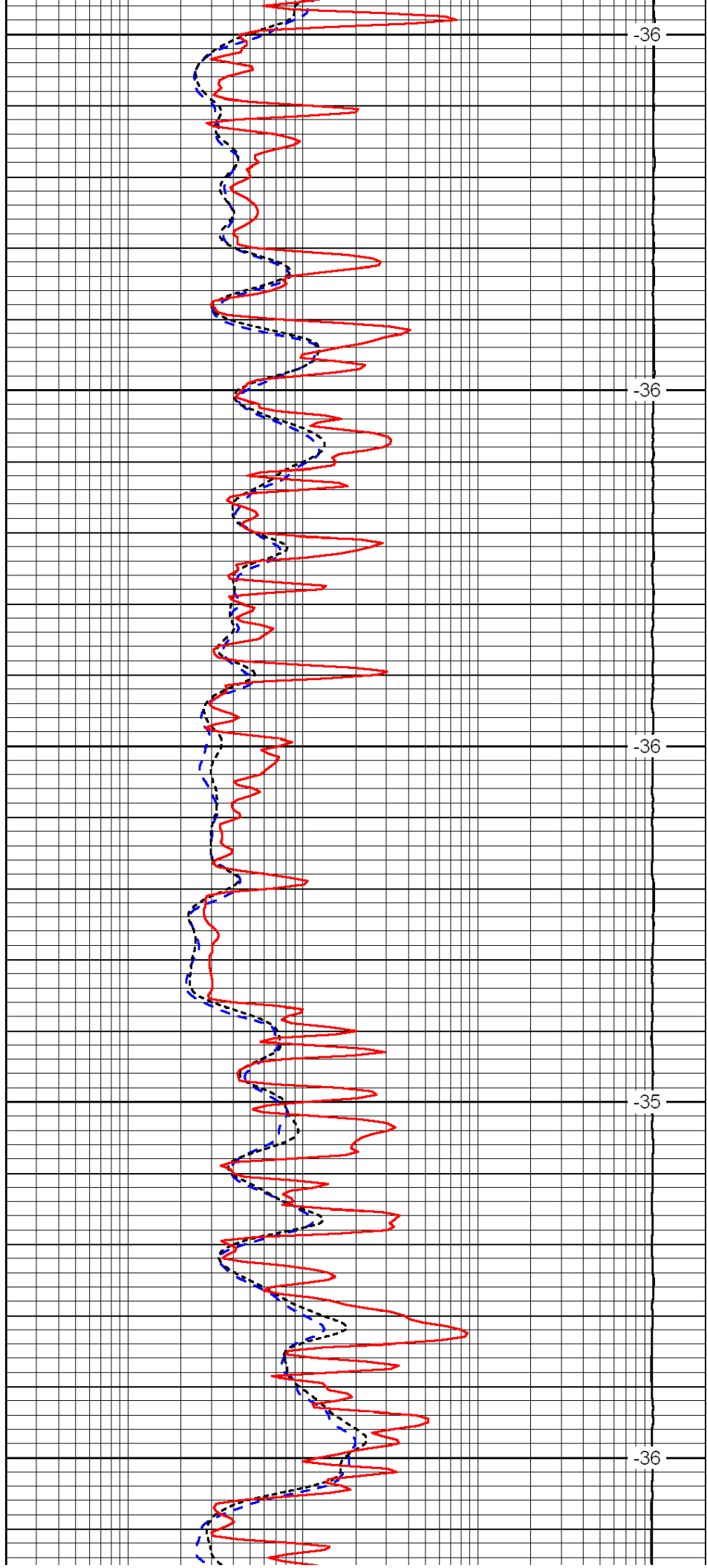
3200

3250

3300

3350

3400



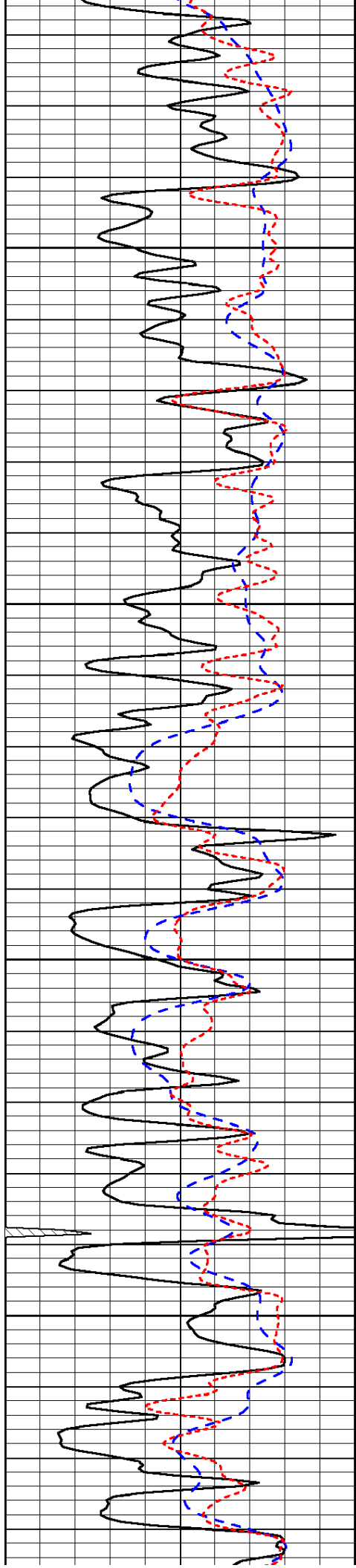
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-36

-36

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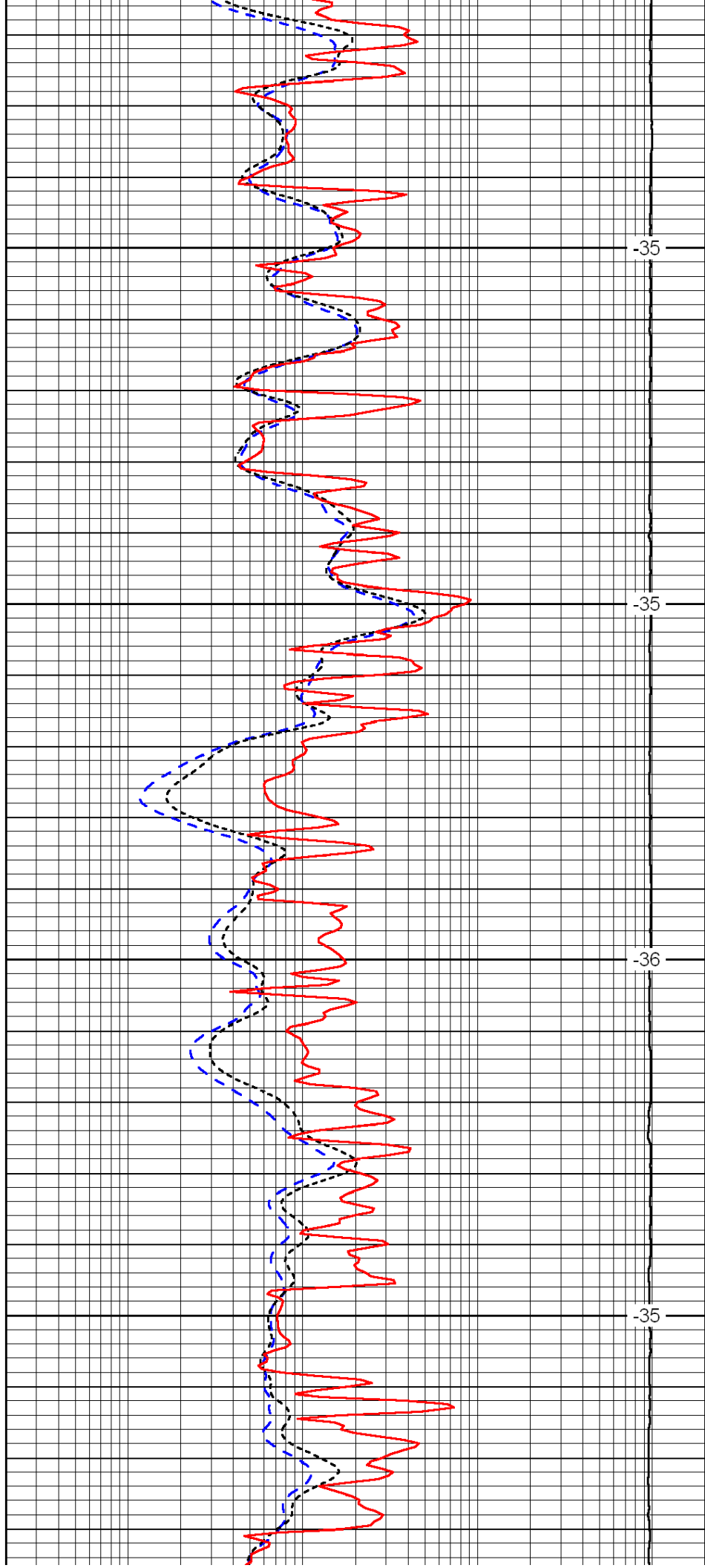


3450

3500

3550

3600

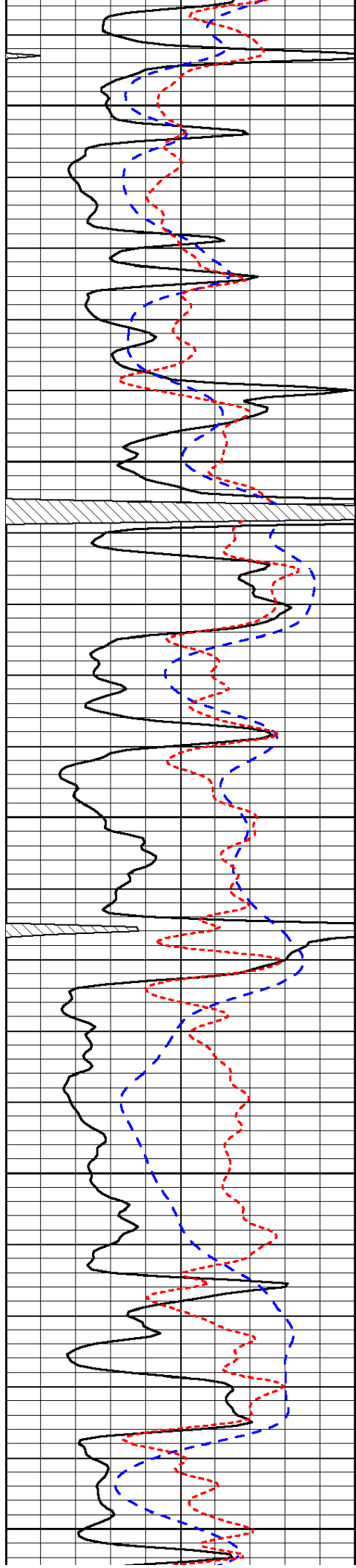


-35

-35

-36

-35



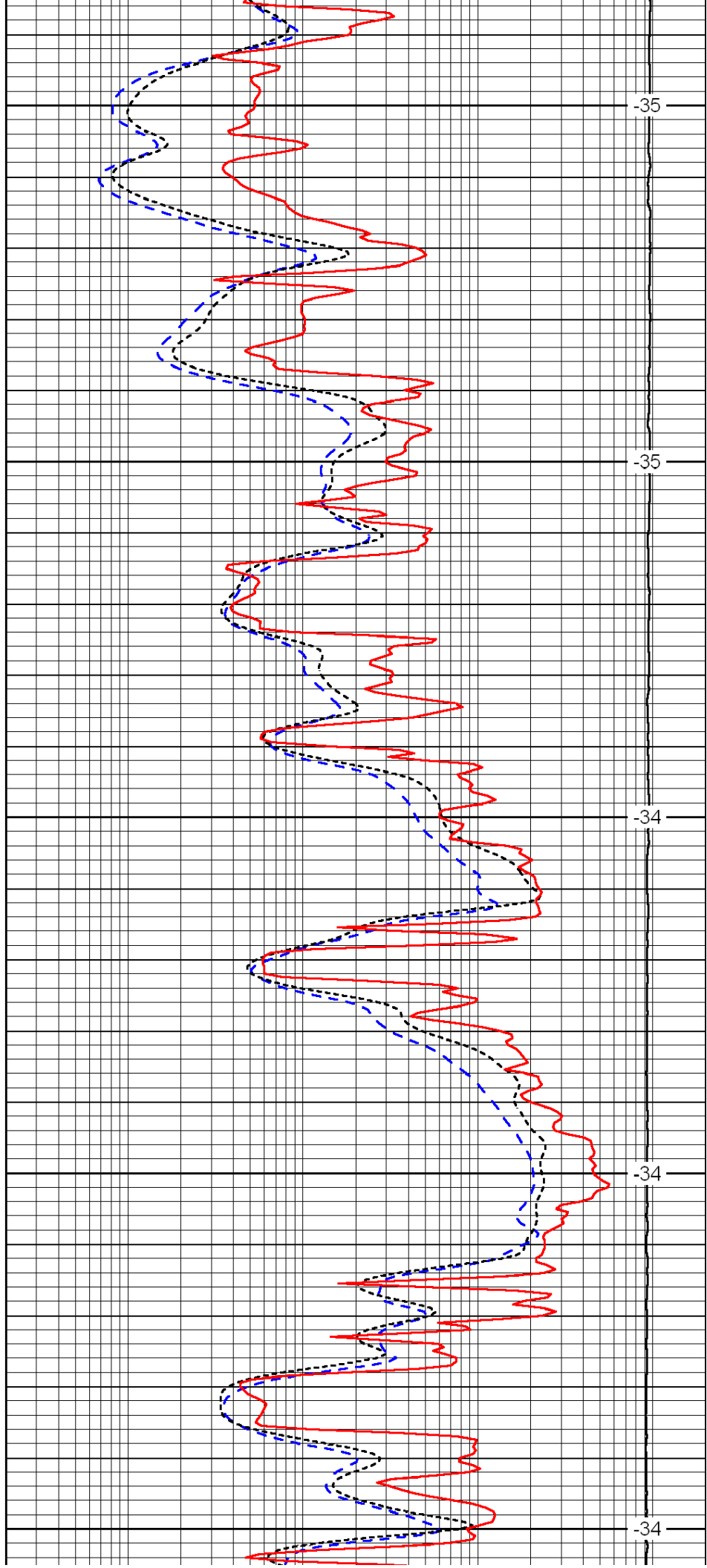
3650

3700

3750

3800

3850



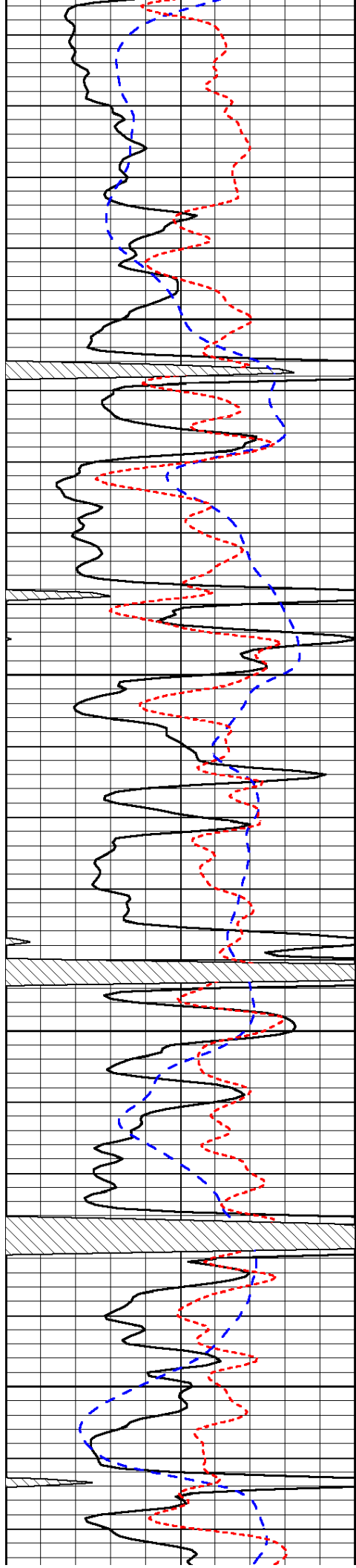
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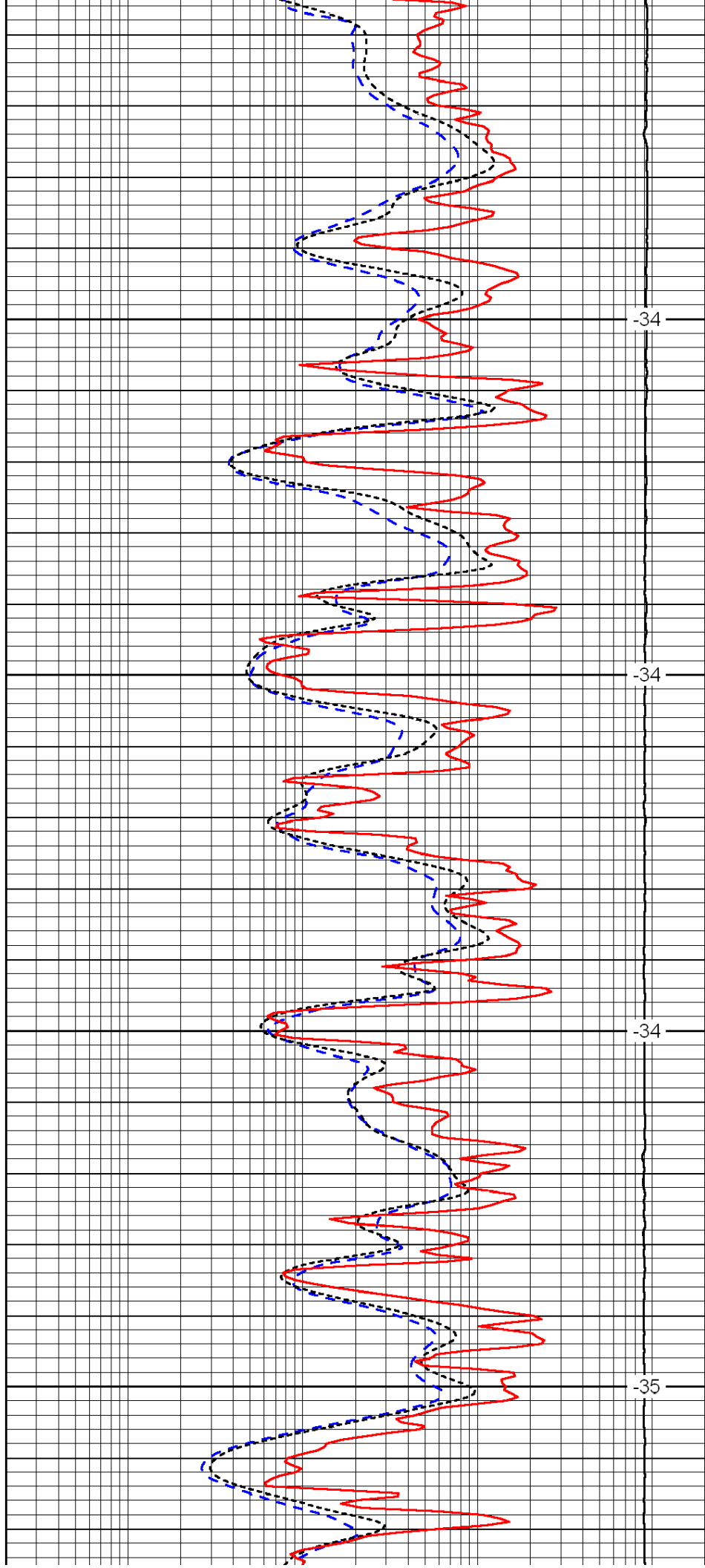


3900

3950

4000

4050

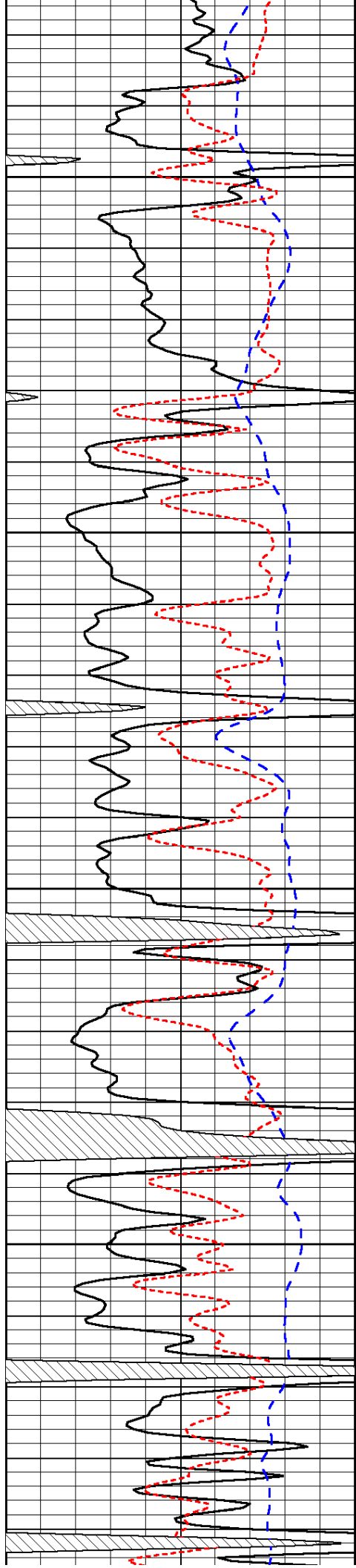


-34

-34

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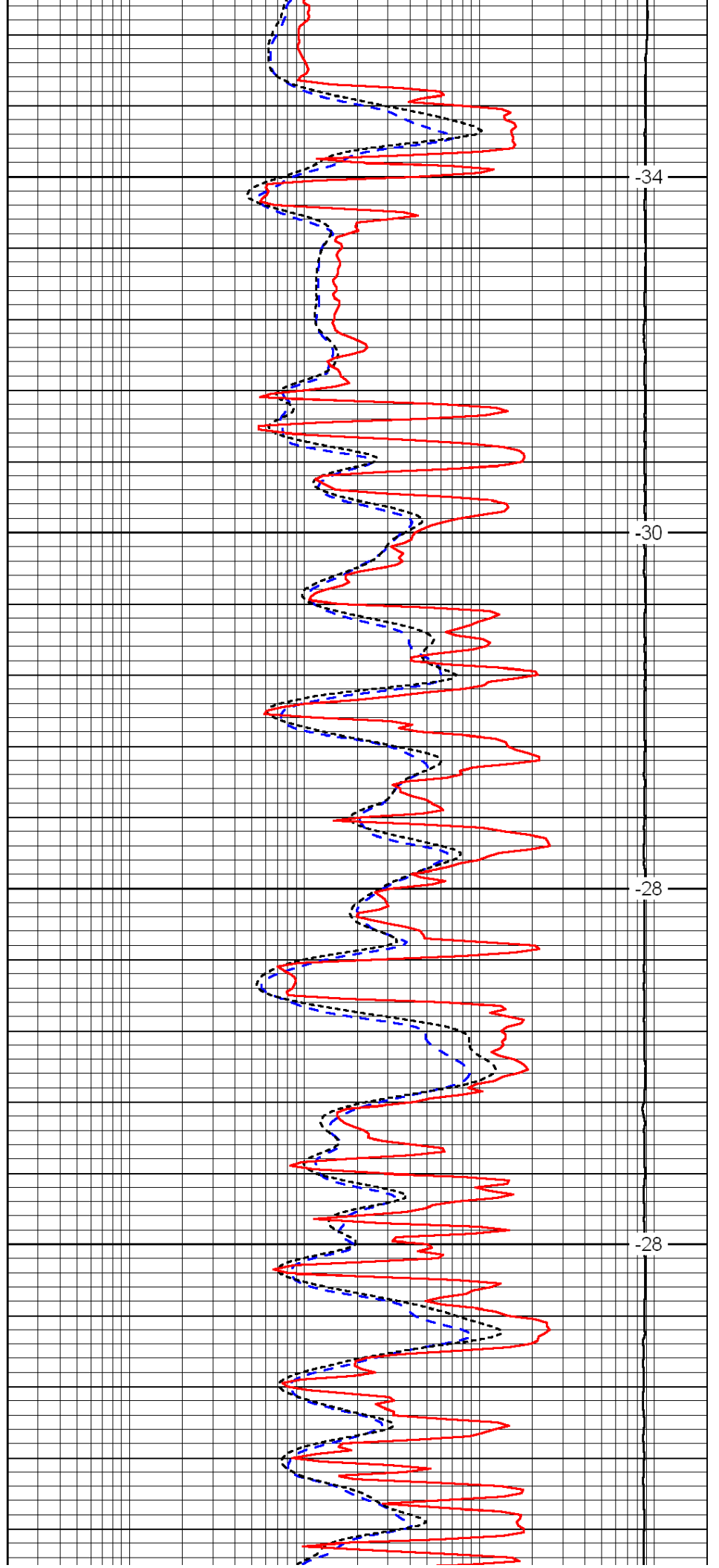


4100

4150

4200

4250

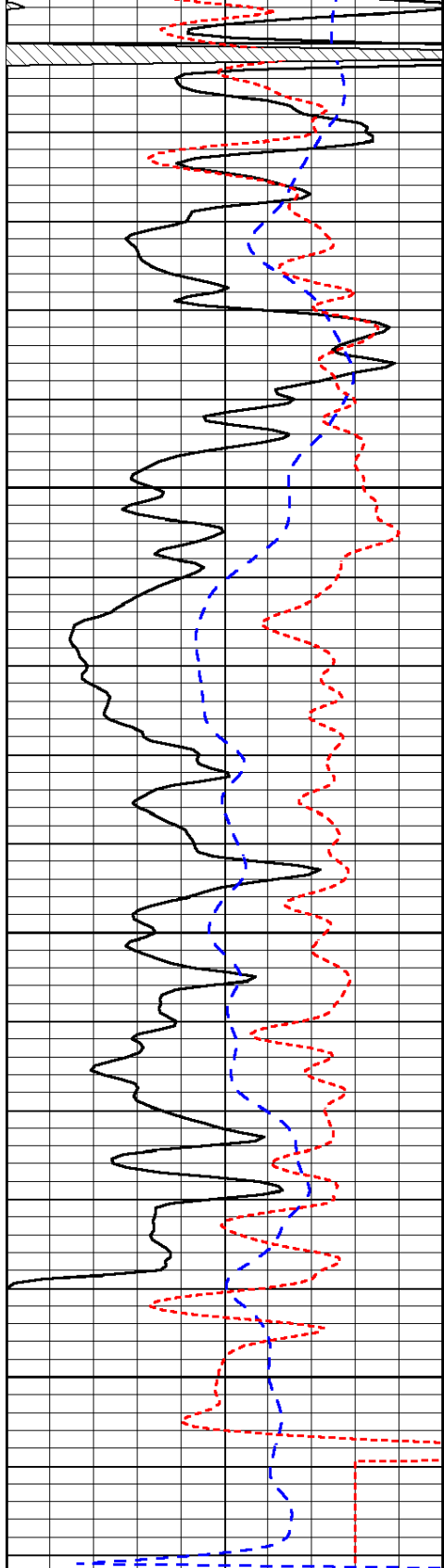


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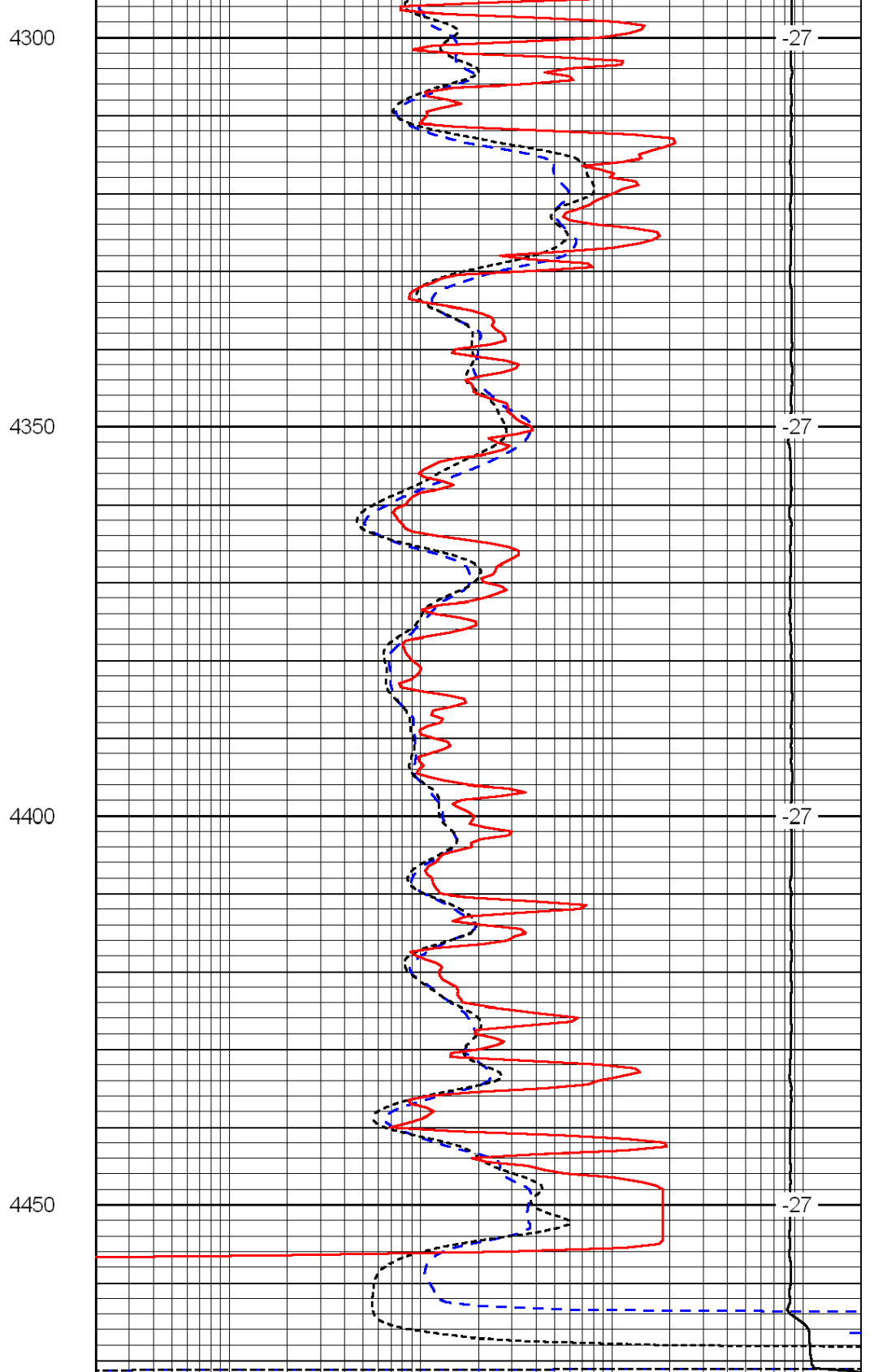
-30

-28

-28



0	Gamma Ray	150
-200	SP (mV)	0
-160	Rxo / Rt	40



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

LSPD