



Dual Induction Log

Pioneer Energy Services

API No.	Company Prater Oil & Gas Operations, Inc.									
	Well Banks #3									
	Field Amber Creek Pool									
	County Barber	State				Kansas				
15-007-23,986-00-00	Location 330' FSL & 1,650' FEL C SE SW SE					Other Services CNL/CDL				
	Sec: 36 Twp: 30S Rge: 12W					Elevation K.B. 1657 D.F. 1648 G.L. 1648				
	Permanent Datum Ground Level Elevation 1648 Log Measured From Kelly Bushing 9 Ft. Above Perm. Datum Drilling Measured From Kelly Bushing									
Date	3/9/2013									
Run Number	One									
Depth Driller	4470									
Depth Logger	4469									
Bottom Logged Interval	4468									
Top Log Interval	250									
Casing Driller	8.625 @ 264									
Casing Logger	264									
Bit Size	7.875									
Type Fluid in Hole	Chemical									
Salinity, ppm CL	5500									
Density / Viscosity	9.1		44							
pH / Fluid Loss	9.5		9.6							
Source of Sample	Flowline									
Rm @ Meas. Temp	.70 @ 74									
Rmf @ Meas. Temp	.53 @ 74									
Rmc @ Meas. Temp	.95 @ 74									
Source of Rmf / Rmc	Charts									
Rm @ BHT	.43 @ 121									
Operating Rig Time	2 1/2 Hours									
Max Rec. Temp. F	121									
Equipment Number	108									
Location	Hays									
Recorded By	J. Long									
Witnessed By	Scott Alberg									

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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

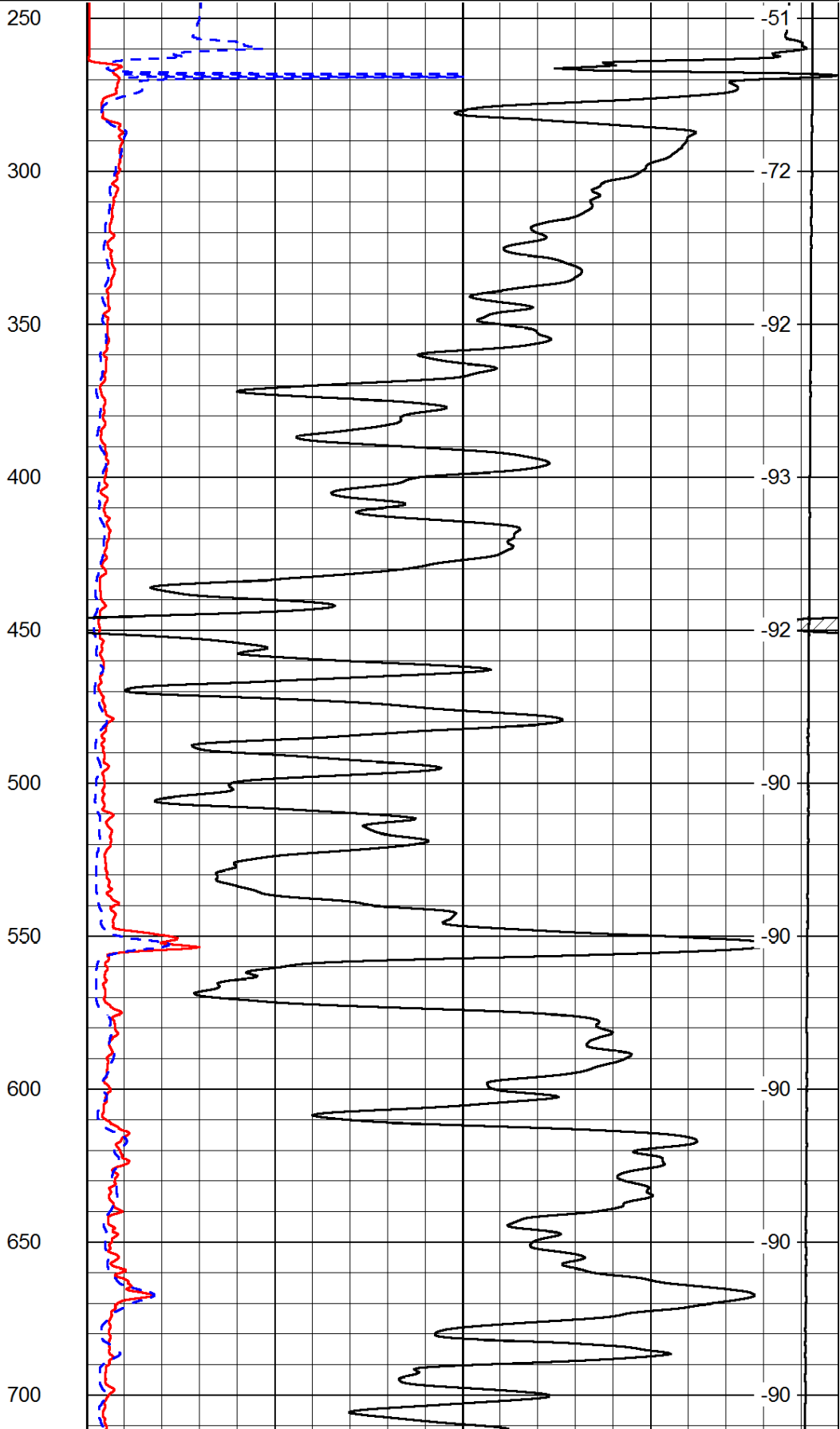
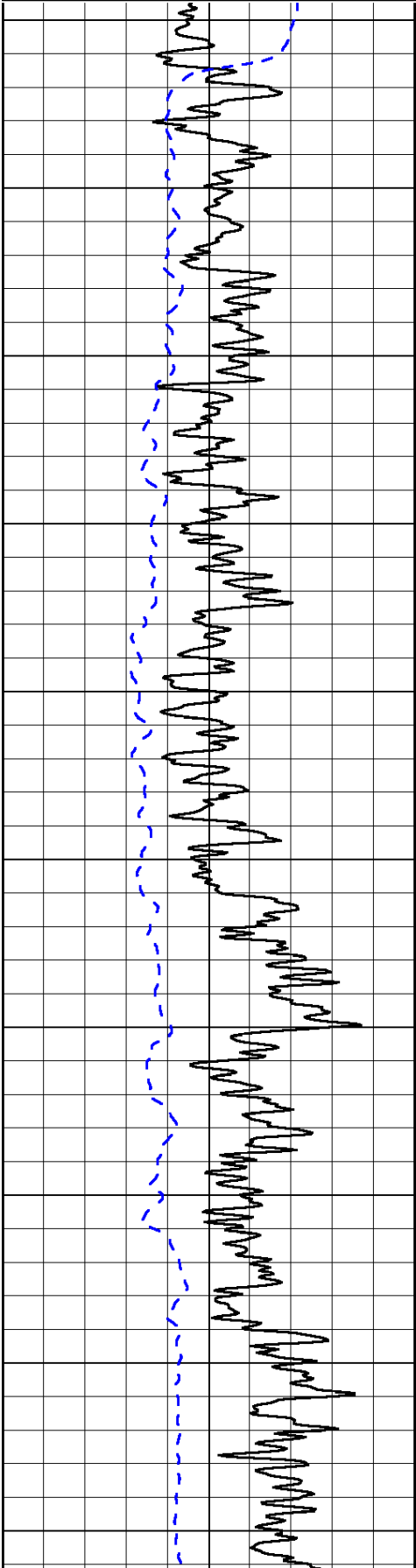
Sawyer, South to 99 Spring Road (Resort Road), 1/2 East, 3/4 South, North Into

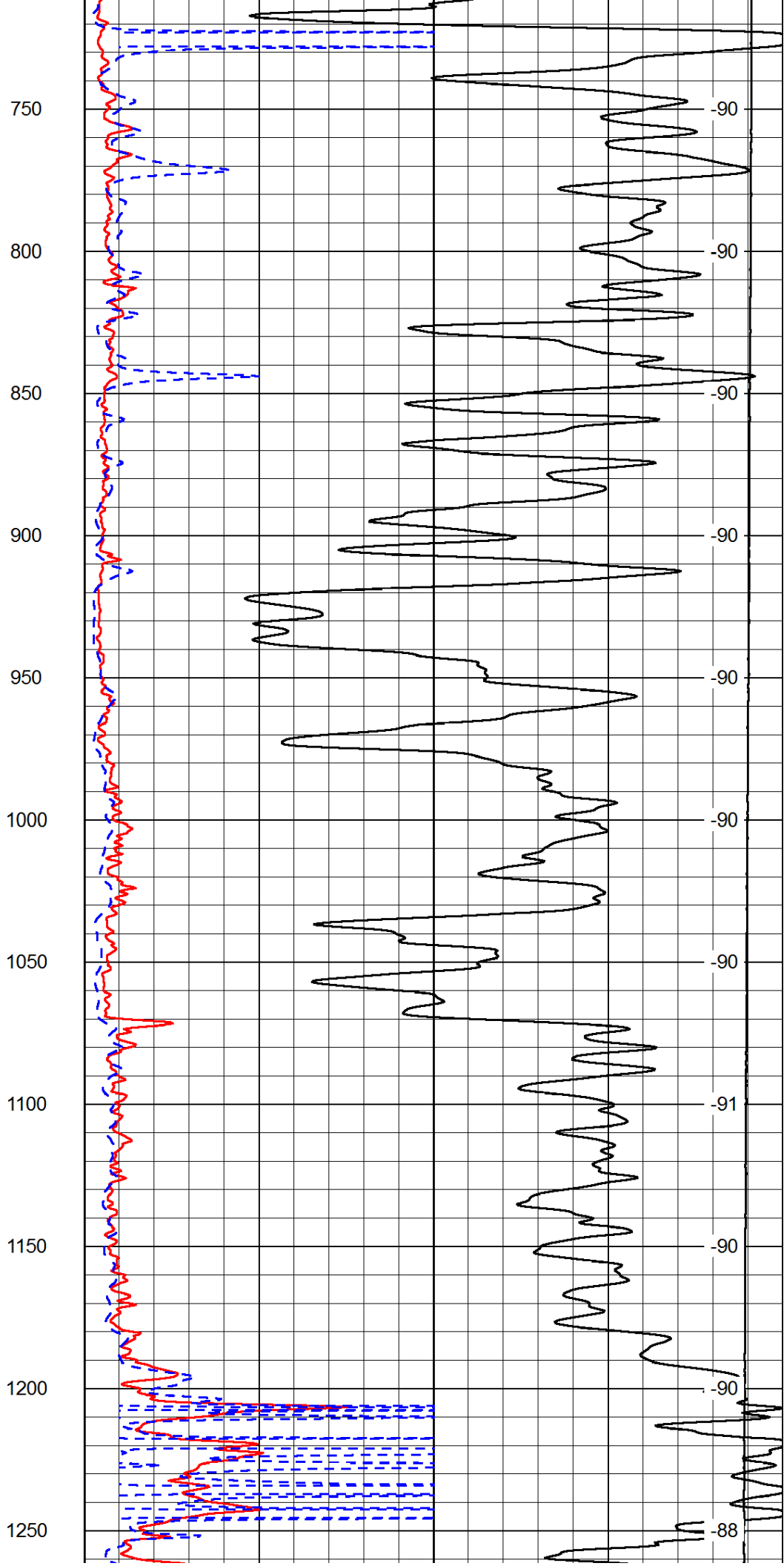
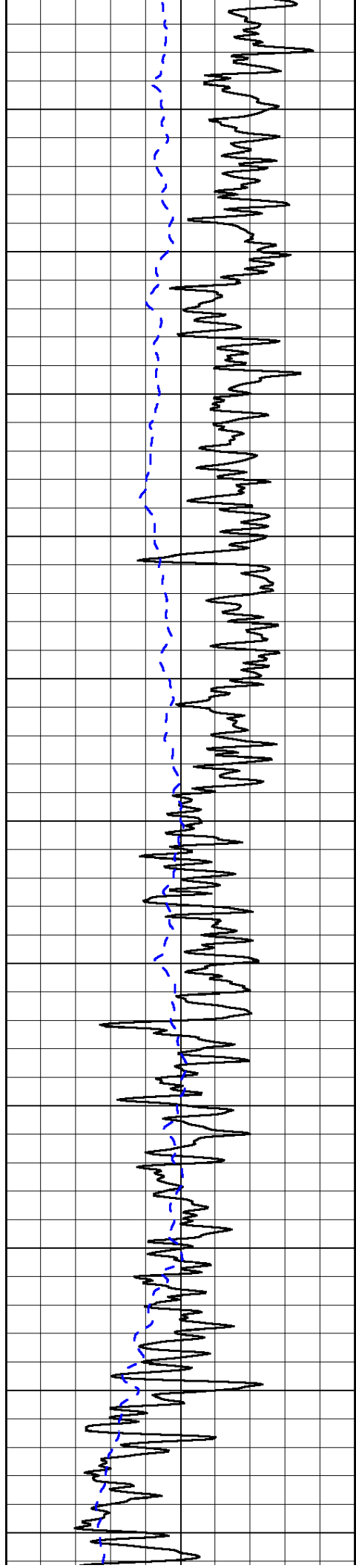
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Presentation Format: dil2in
Dataset Creation: Sun Mar 10 00:44:40 2013
Charted by: Depth in Feet scaled 1:600

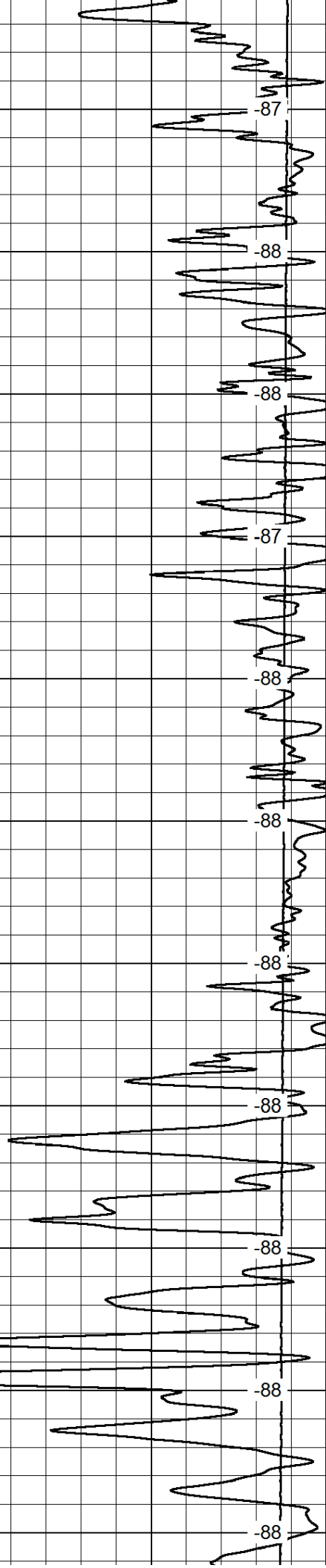
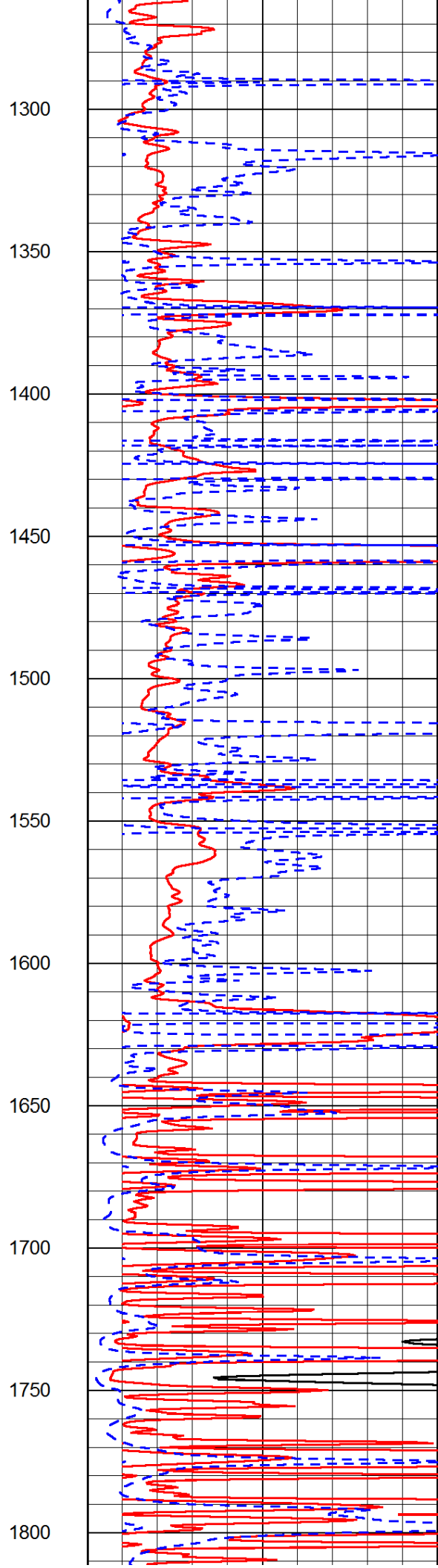
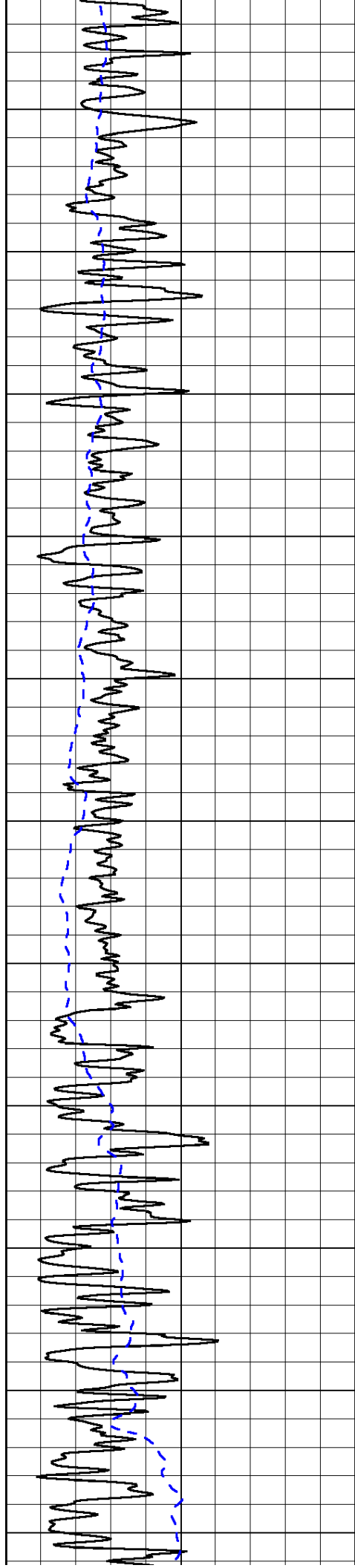
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-200	SP (mV)	0

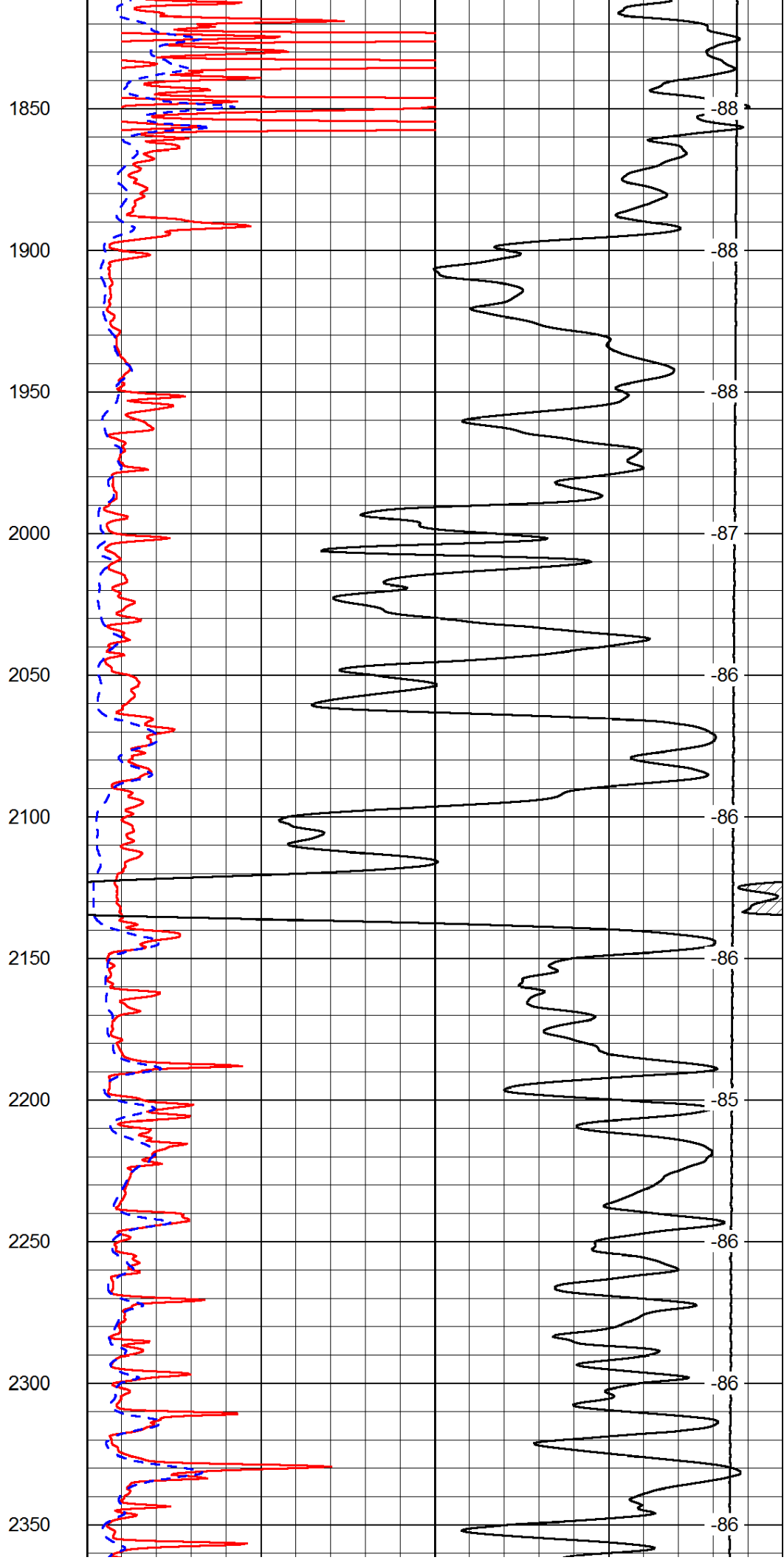
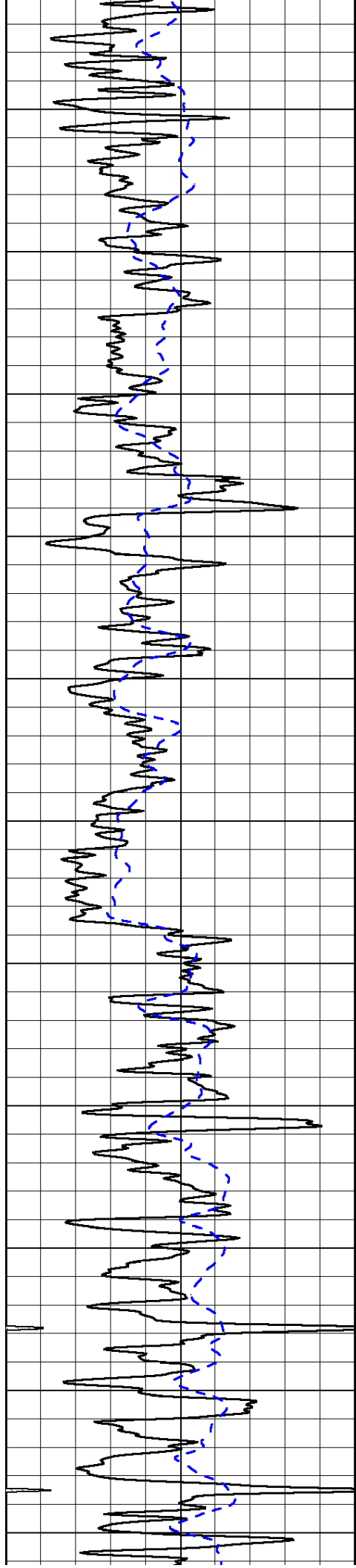
0	Shallow Resistivity	50
0	Deep Resistivity	50
1000	Conductivity	0
15000	Line Tension	0
50	Shallow Resistivity	500
50	Deep Resistivity	500

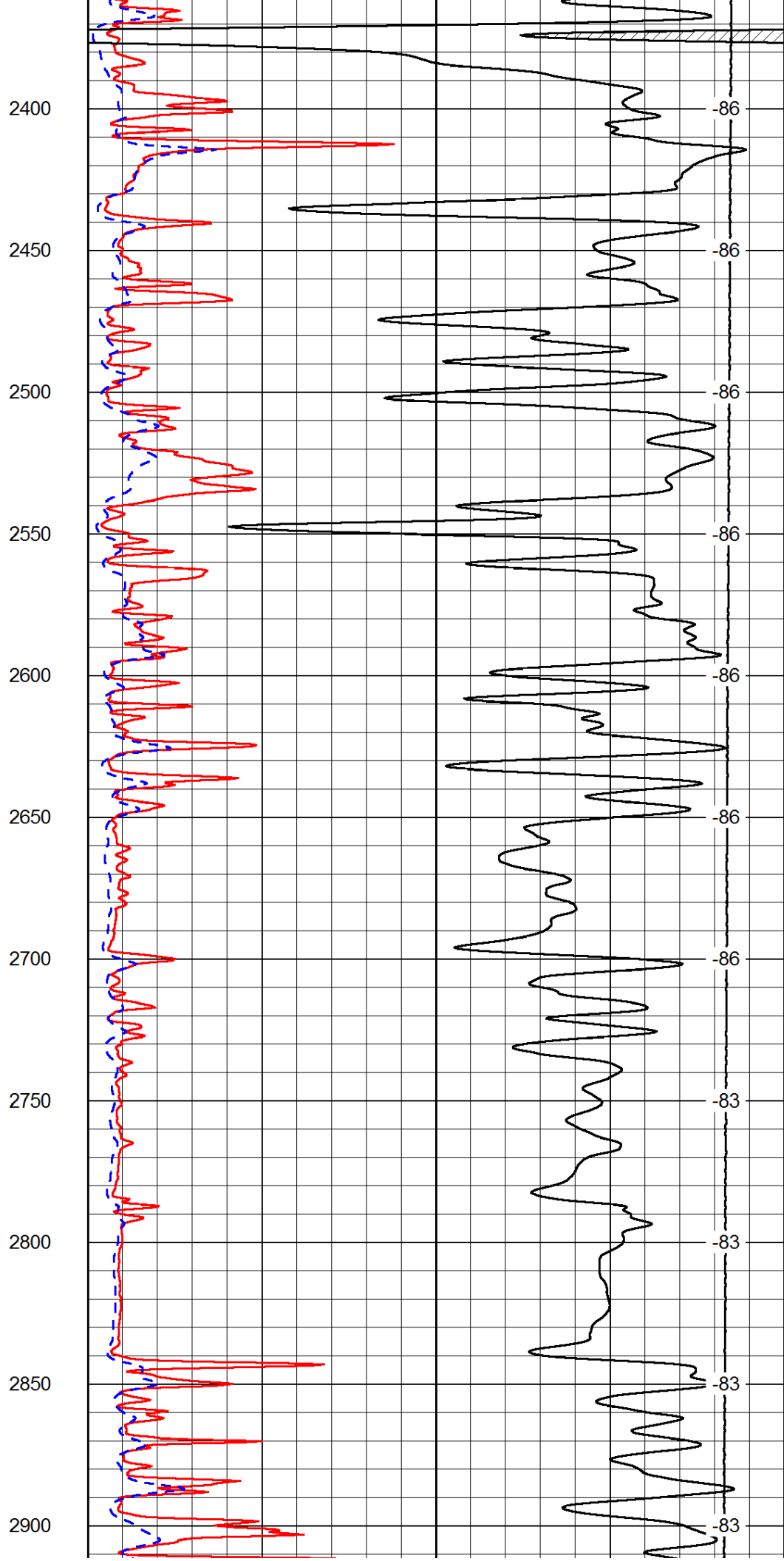
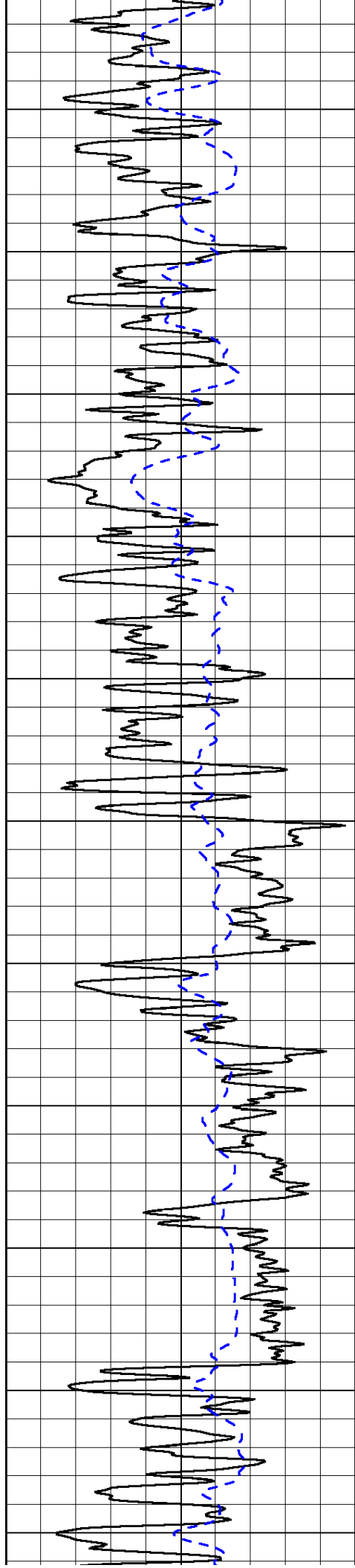
LSPD
0
0

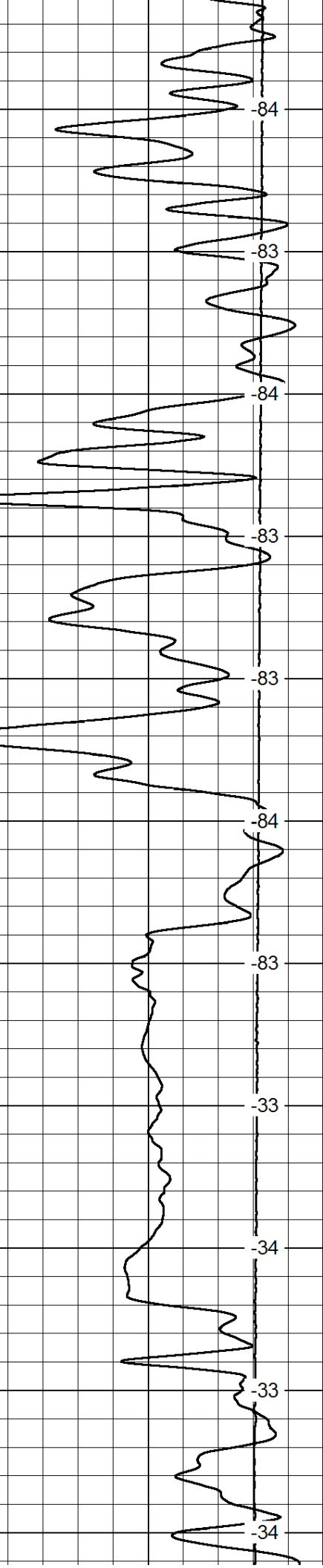
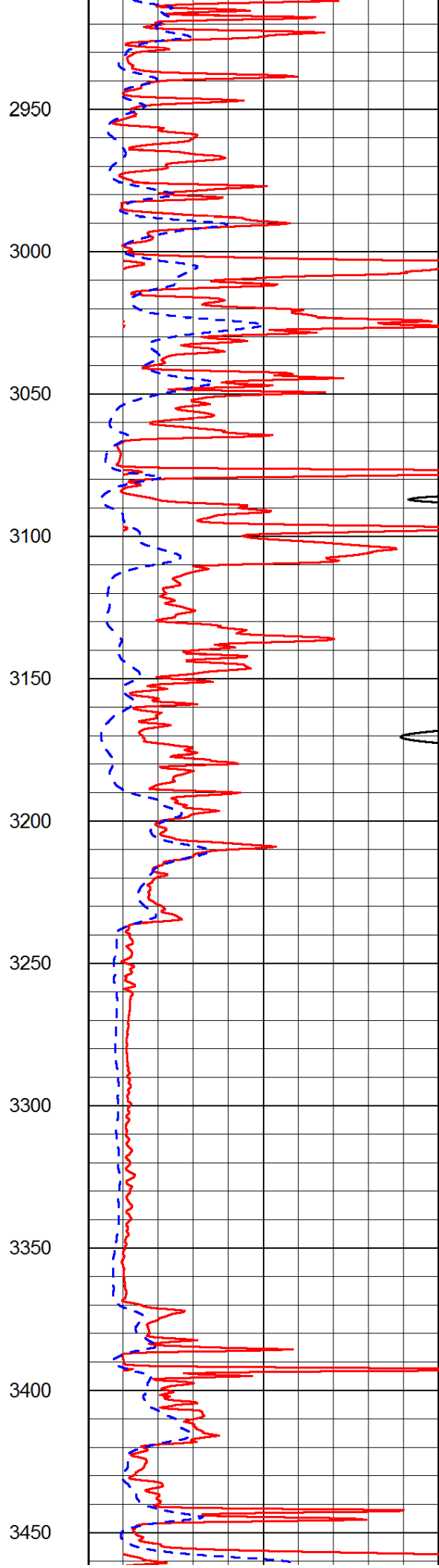
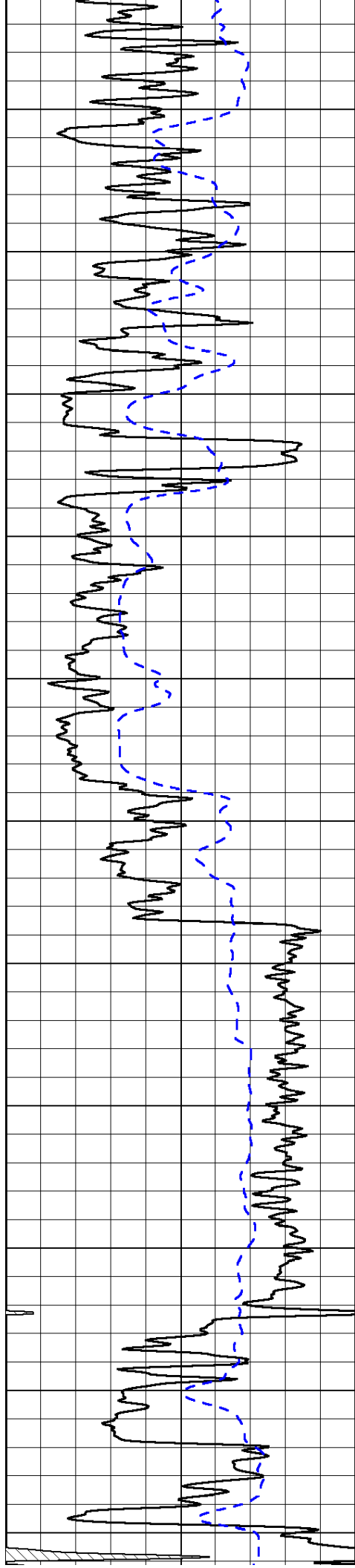


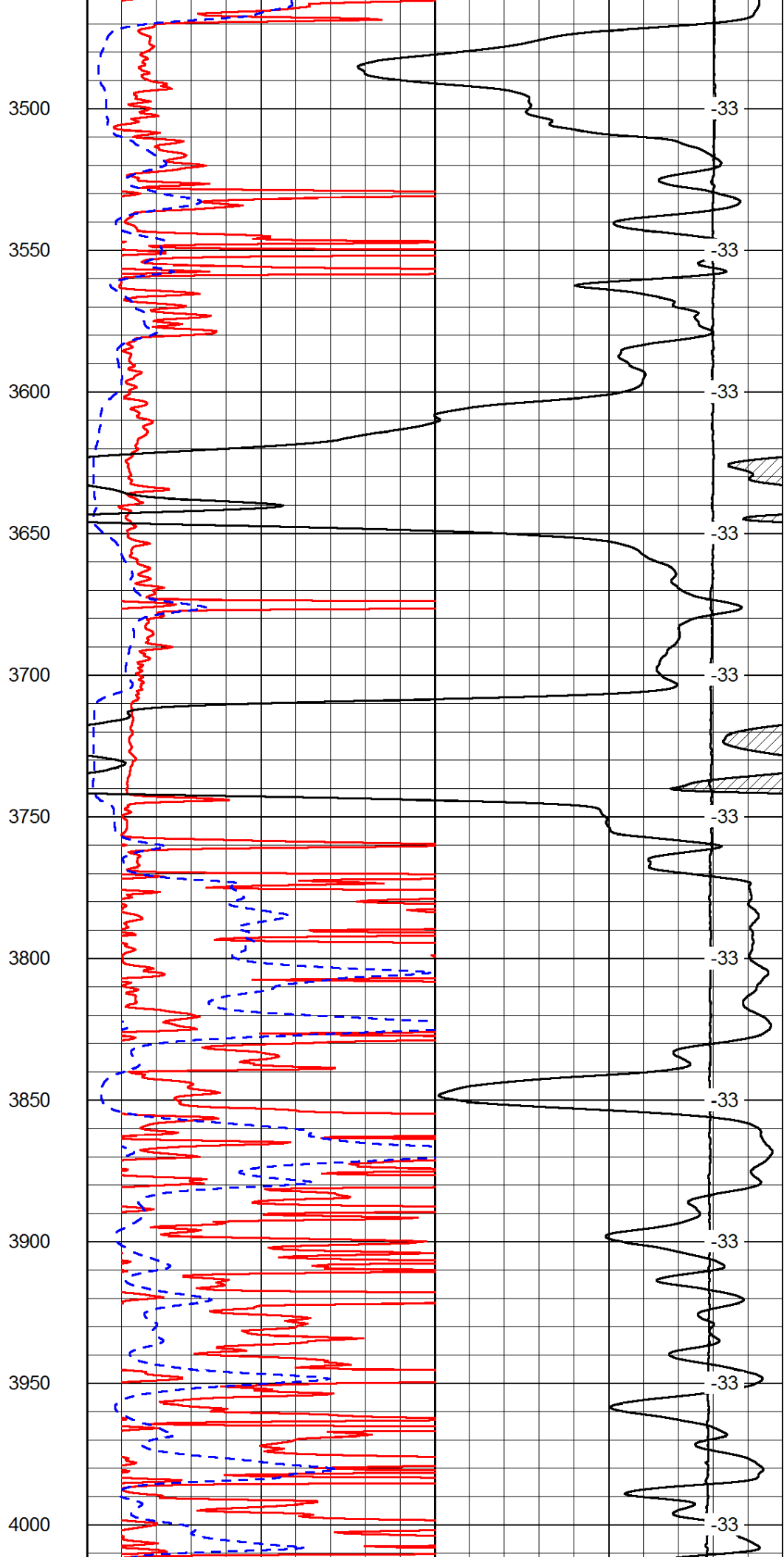
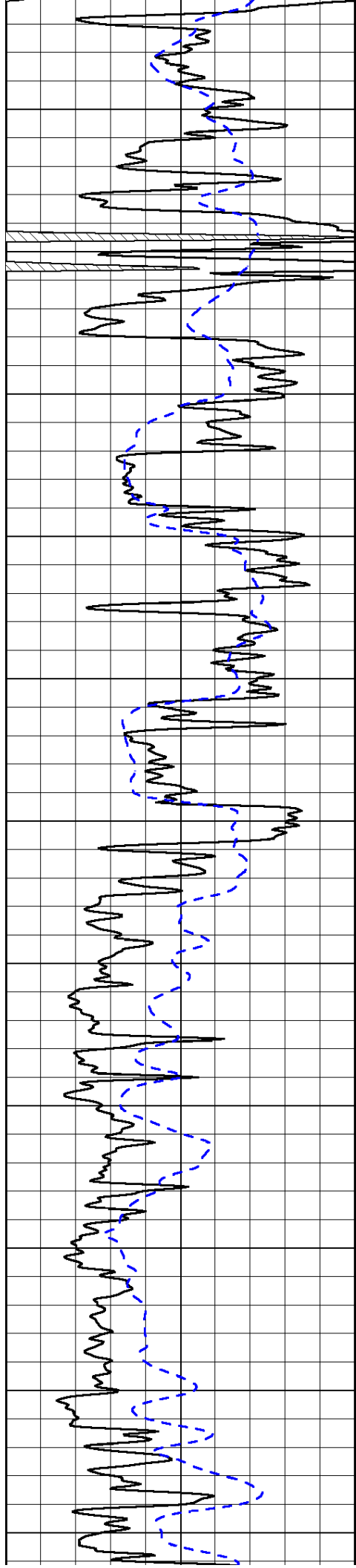


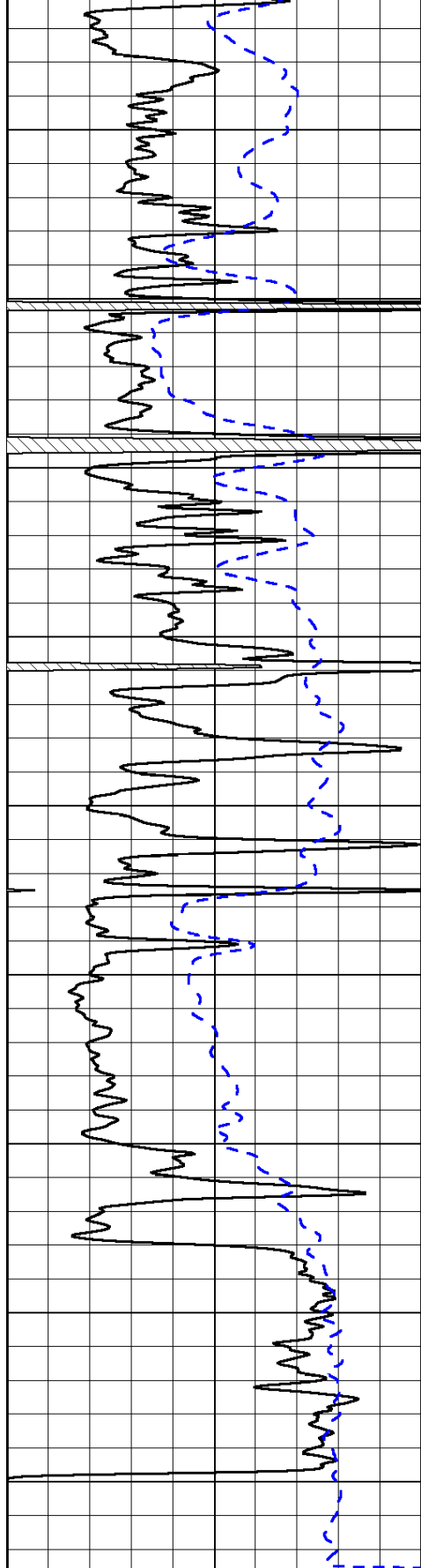




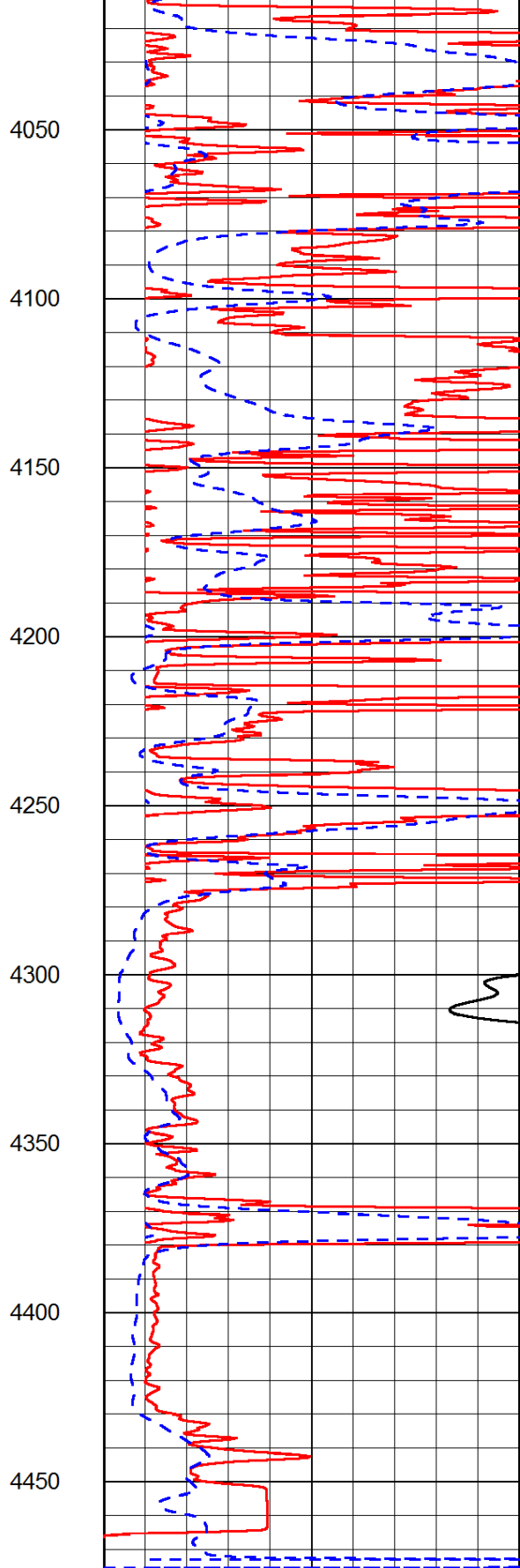




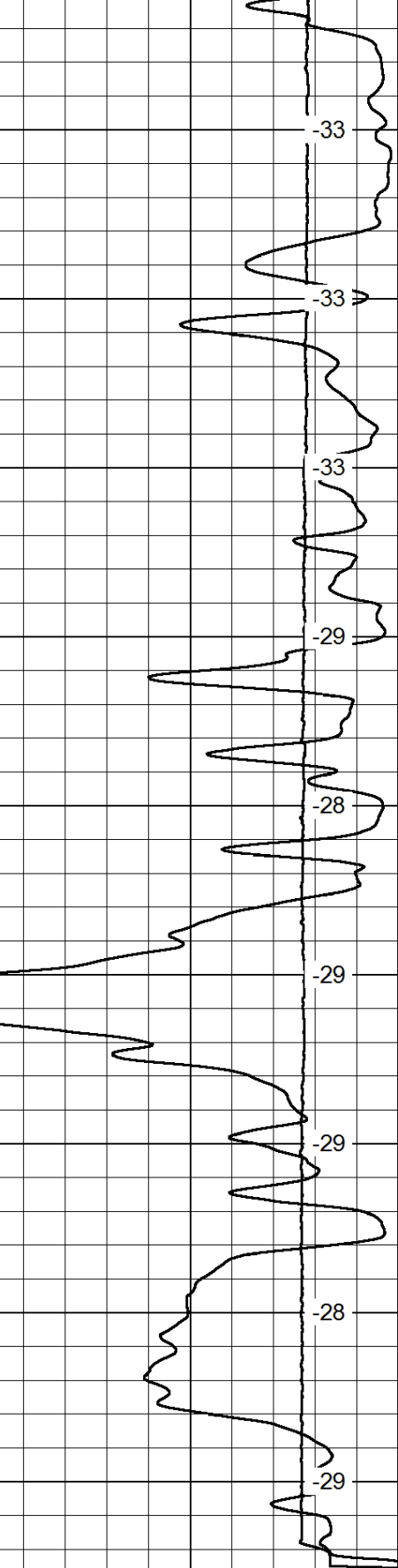




0 Gamma Ray 150
-200 SP (mV) 0



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



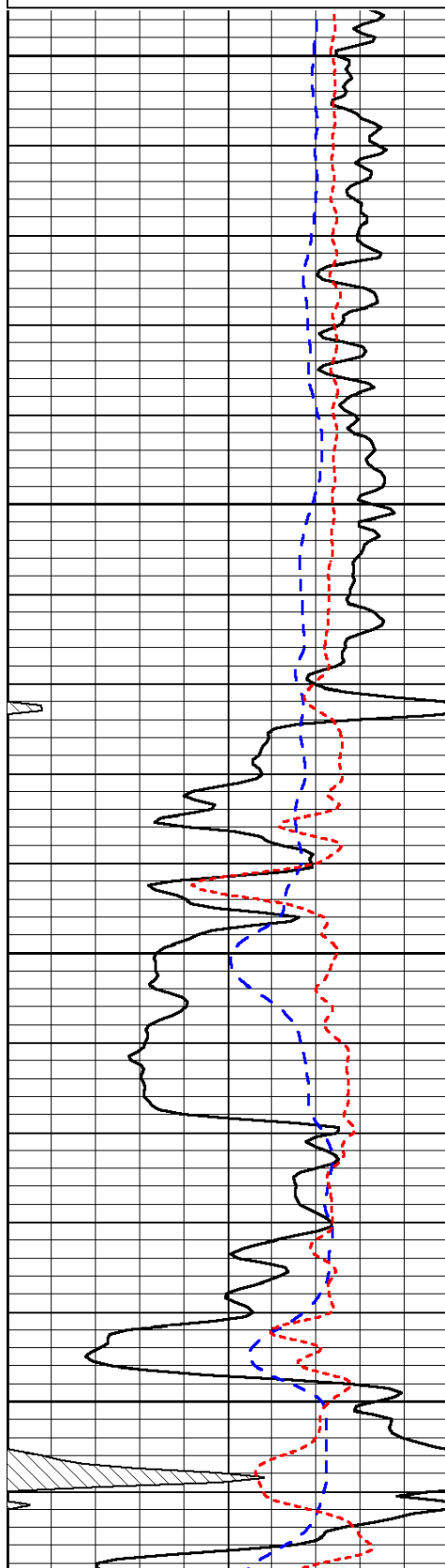
LSPD
-33
-33
-33
-29
-28
-29
-29
-28
-29

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Dataset Pathname: dil/pratstck
Presentation Format: dil
Dataset Creation: Sun Mar 10 00:44:40 2013
Charted by: Depth in Feet scaled 1:240

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

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

LSPD

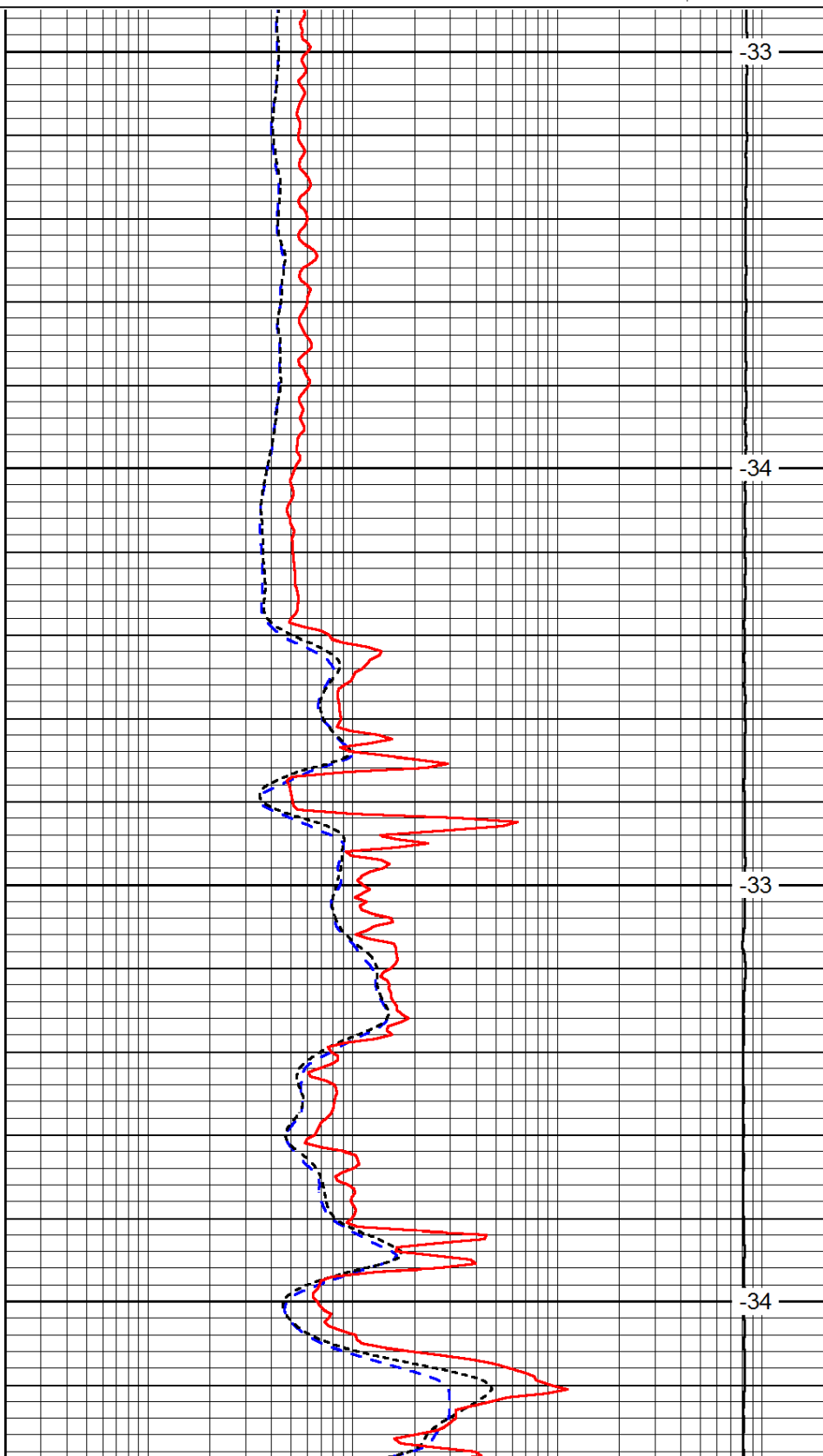


3300

3350

3400

3450

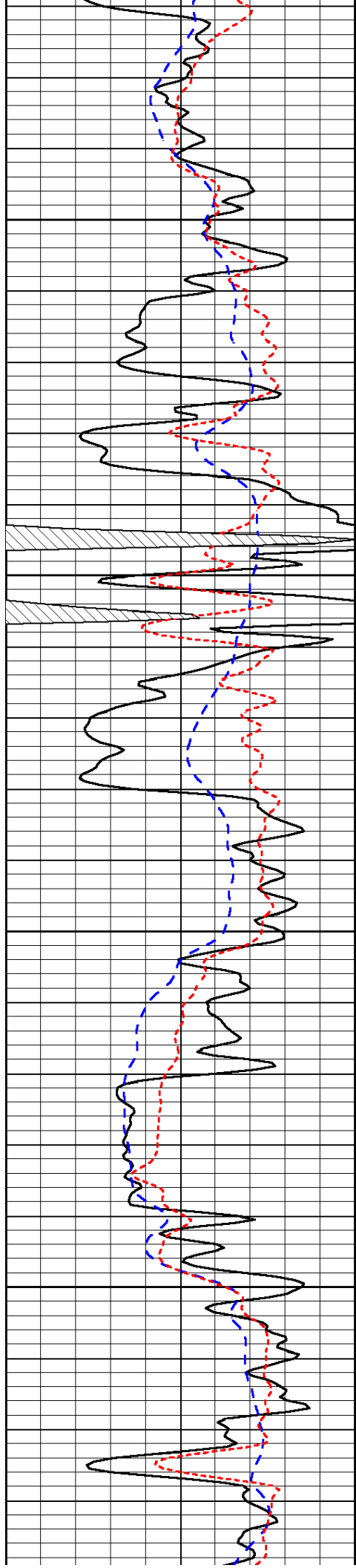


-33

-34

-33

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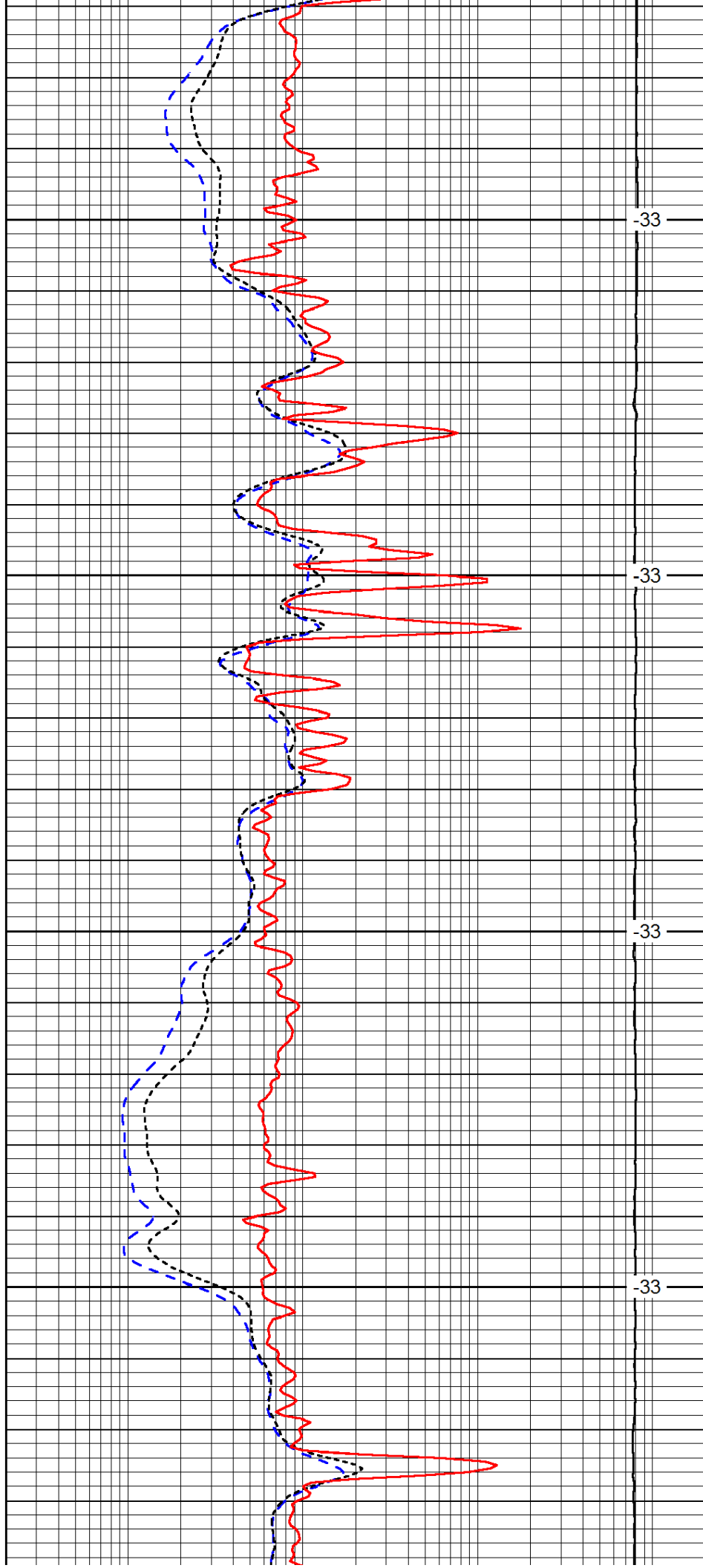


3500

3550

3600

3650

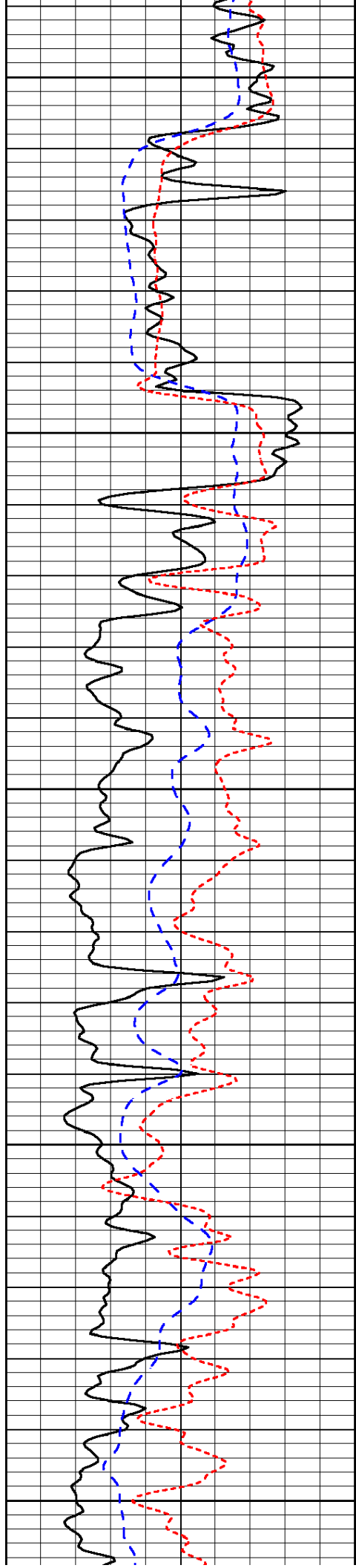


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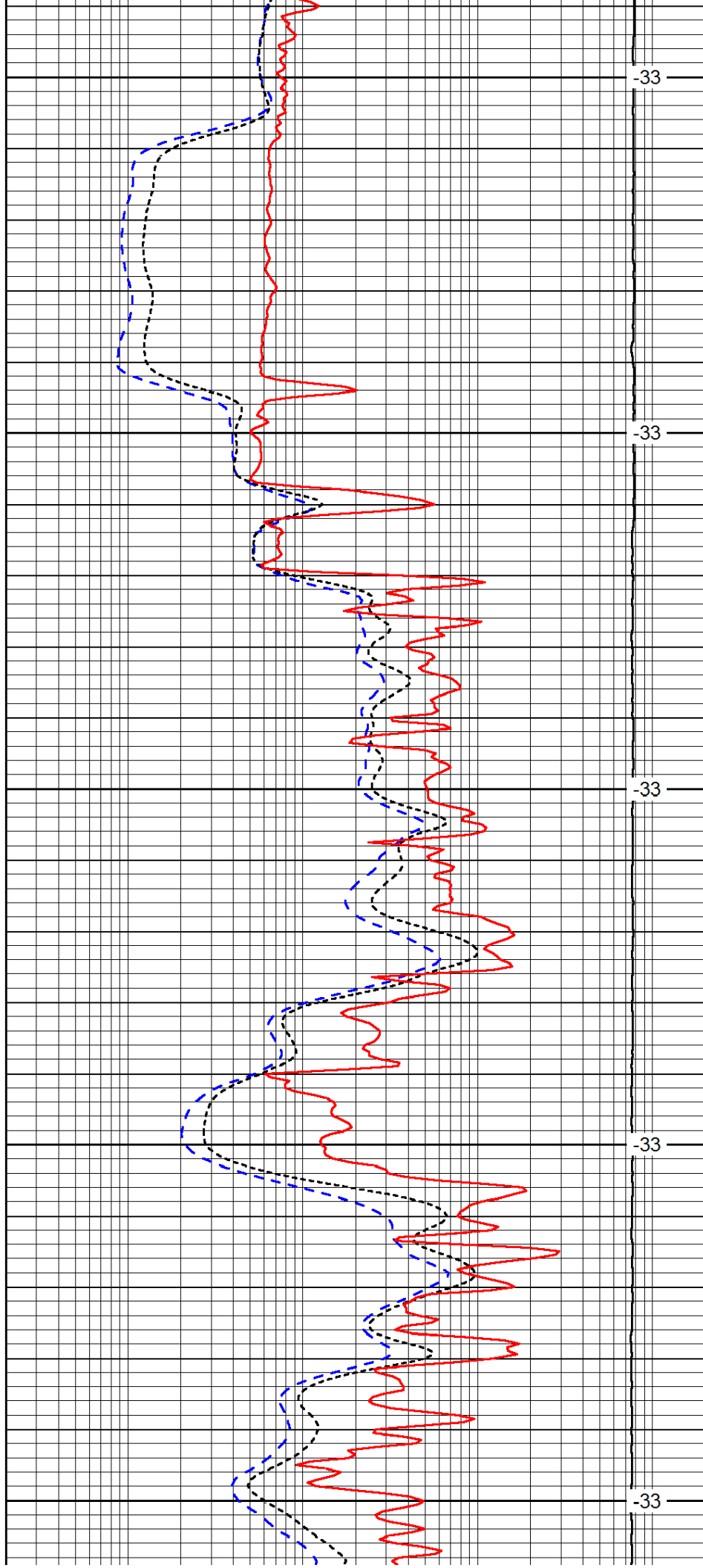
3700

3750

3800

3850

3900



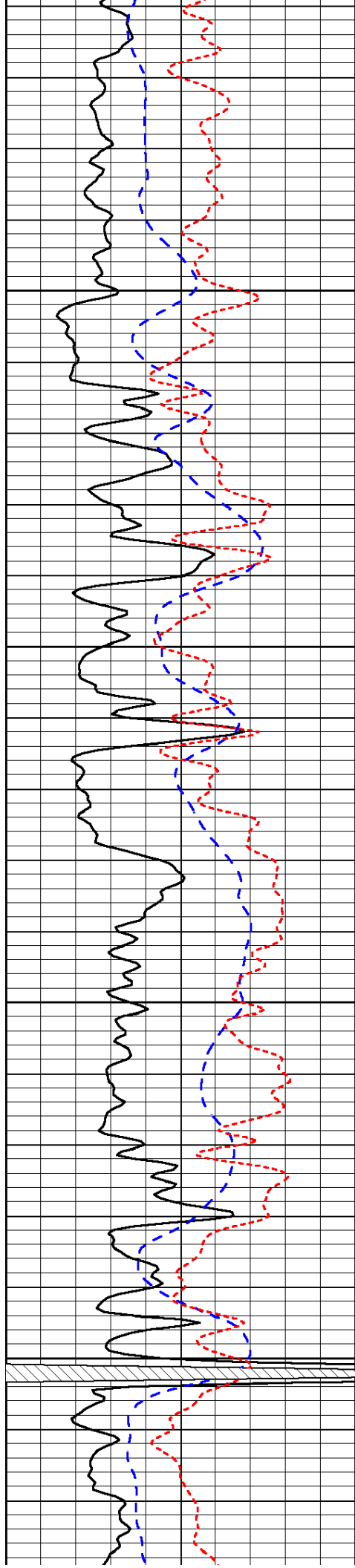
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-33

-33

-33

-33

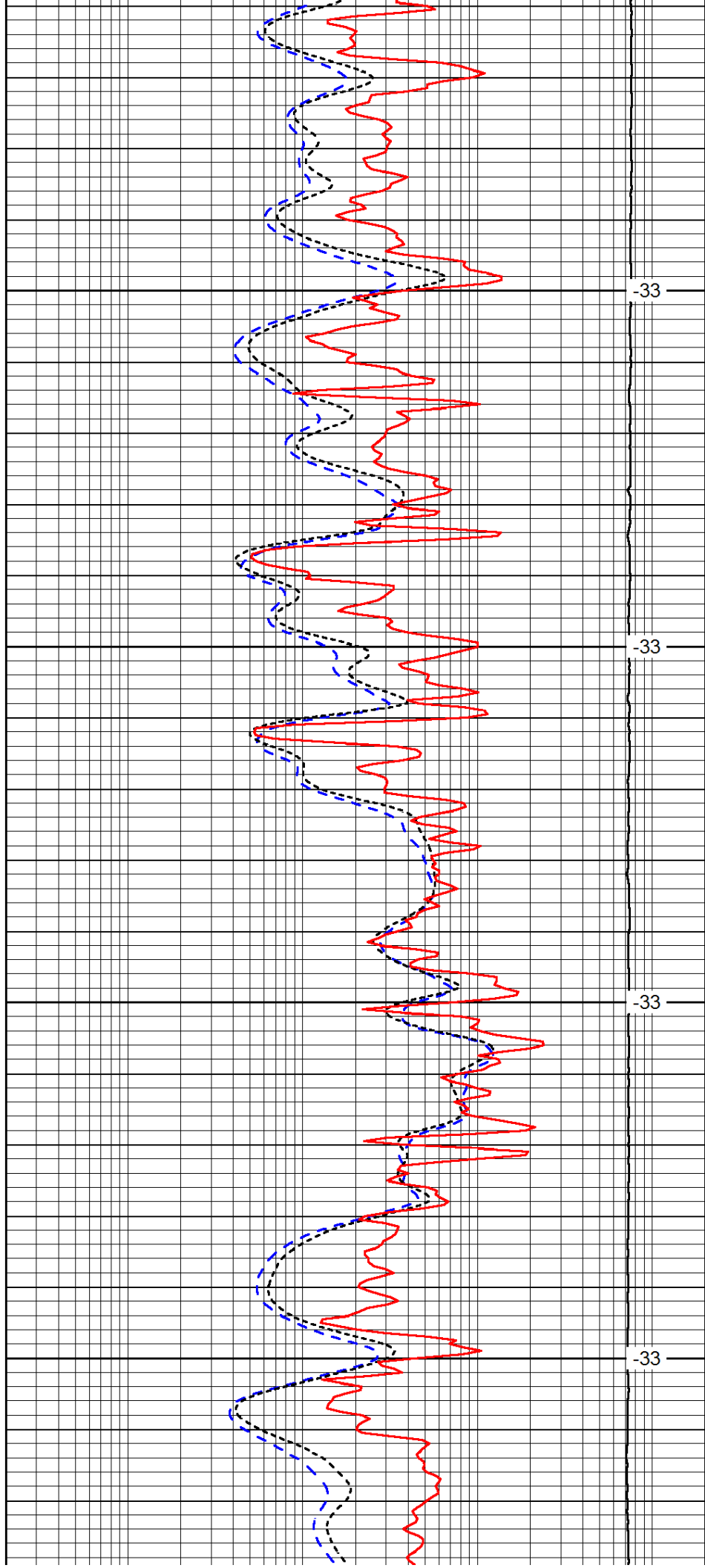


3950

4000

4050

4100

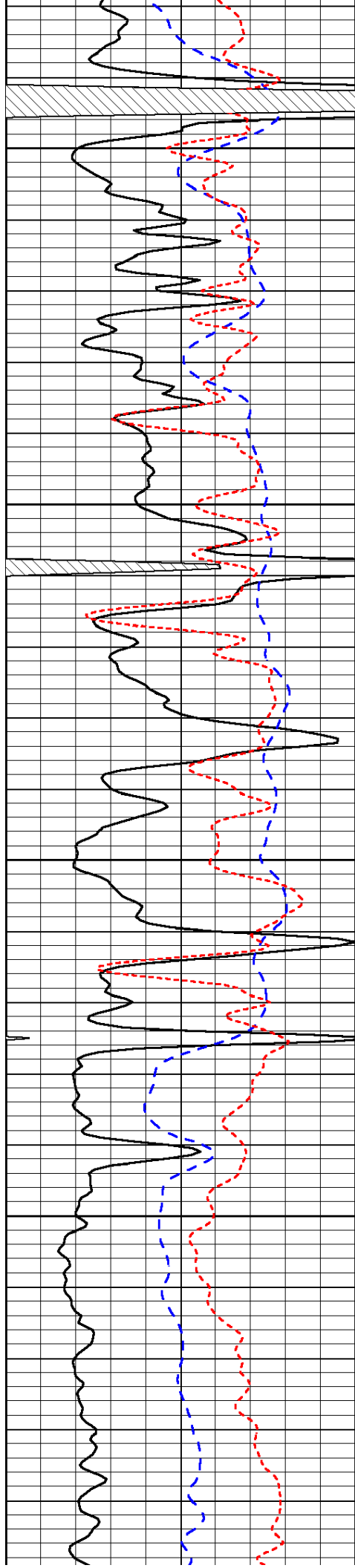


-33

-33

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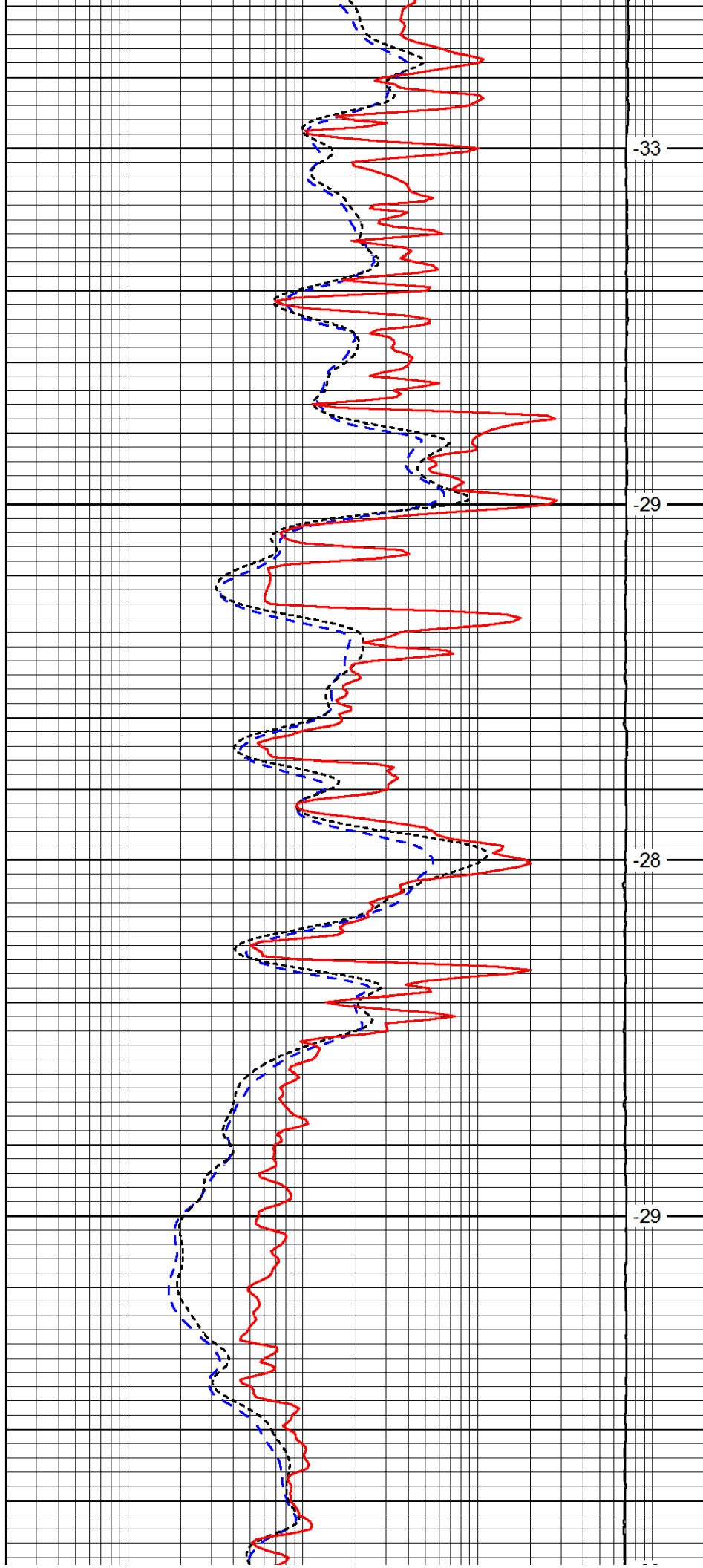


4150

4200

4250

4300

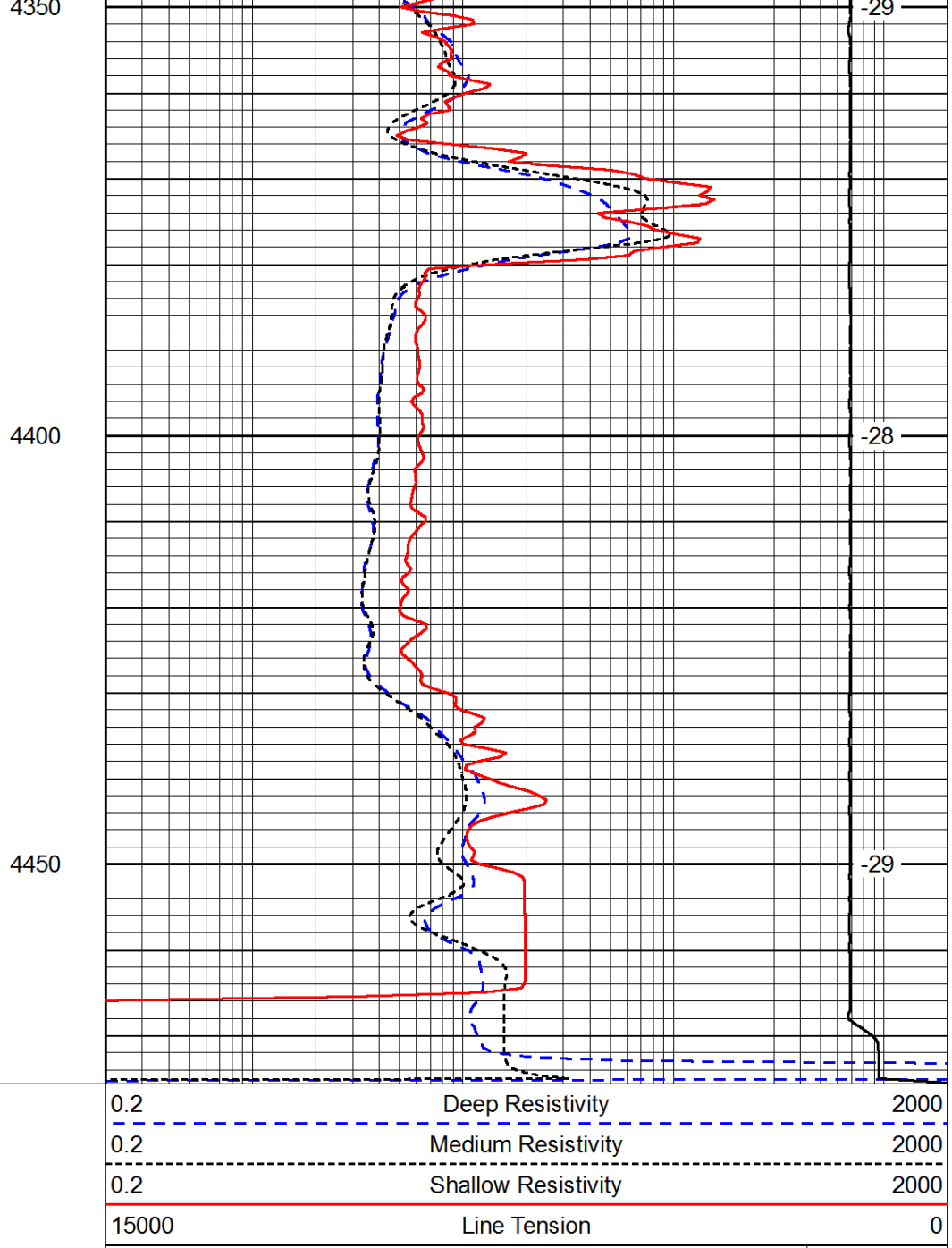
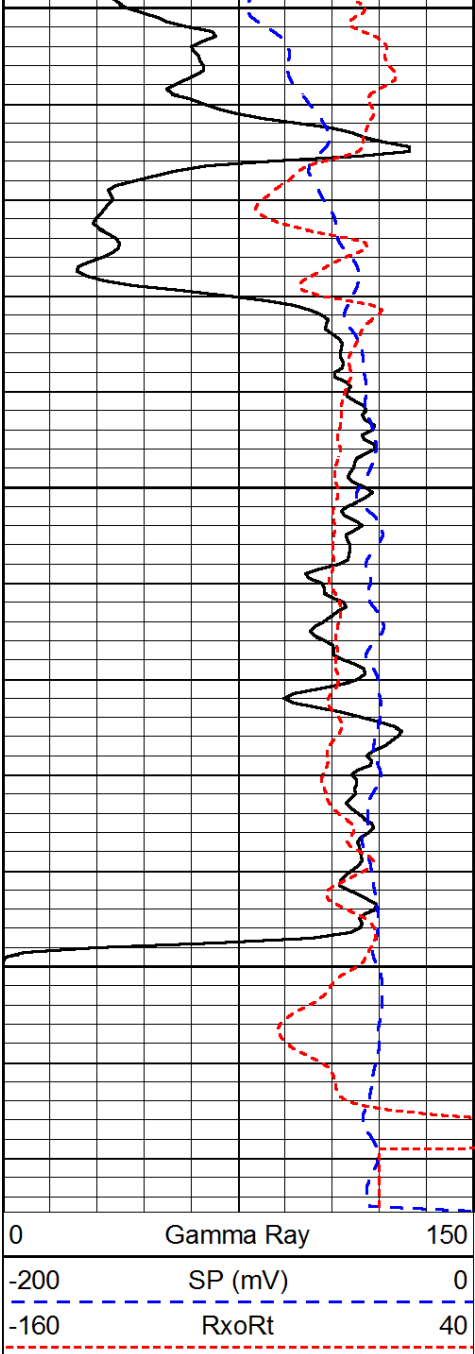


-33

-29

-28

-29



LSPD