



Dual Induction Log

Pioneer Energy Services

API No.	Company American Warrior, Inc.		
	Well White #7-8		
	Field Stollenberg		
	County Ellsworth	State	Kansas
	Location	1425' FNL & 1800' FWL	
	Sec: 8	Twp: 16S	Rge: 10W
	Permanent Datum	Ground Level	Elevation 1865
	Log Measured From	Kelly Bushing	8 Ft. Above Perm. Datum
	Drilling Measured From	Kelly Bushing	
Date		06/23/2014	
Run Number		One	
Depth Driller		3446	
Depth Logger		3449	
Bottom Logged Interval		3448	
Top Log Interval		350	
Casing Driller		8.625 @ 363	
Casing Logger		358	
Bit Size		7.875	
Type Fluid in Hole		Chemical	
Salinity, ppm CL		4600	
Density / Viscosity		9.3 56	
pH / Fluid Loss		11.0 8.0	
Source of Sample		Flowline	
Rm @ Meas. Temp		0.65 @ 72	
Rmf @ Meas. Temp		0.48 @ 72	
Rmc @ Meas. Temp		0.87 @ 72	
Source of Rmf / Rmc		Charts	
Rm @ BHT		0.42 @ 112	
Operating Rig Time		3 Hours	
Max Rec. Temp. F		112	
Equipment Number		91	
Location		Hays	
Recorded By		M. Beougher	D. Schmidt
Witnessed By		Jim Musgrove	

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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
Wilson,
South to Ave N,
East 1 1/2 Miles,
South Into

Database File: c:\warrior\data\amwar_white #7-8\american_white_7-8hd.db
Dataset Pathname: dil\awstkml
Presentation Format: dil2in
Dataset Creation: Tue Jun 24 01:07:34 2014
Charted by: Depth in Feet scaled 1:600

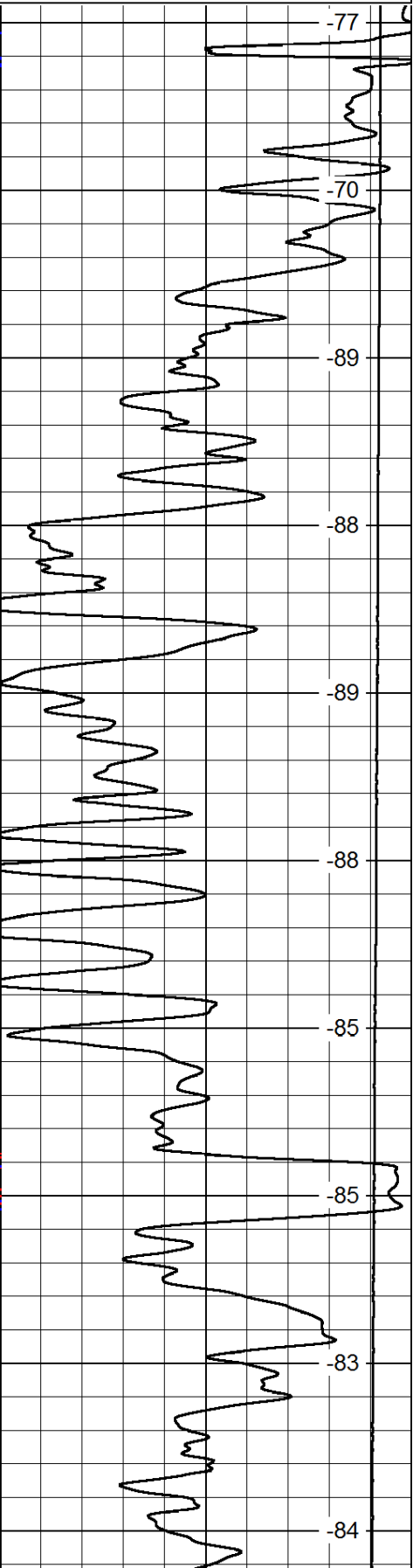
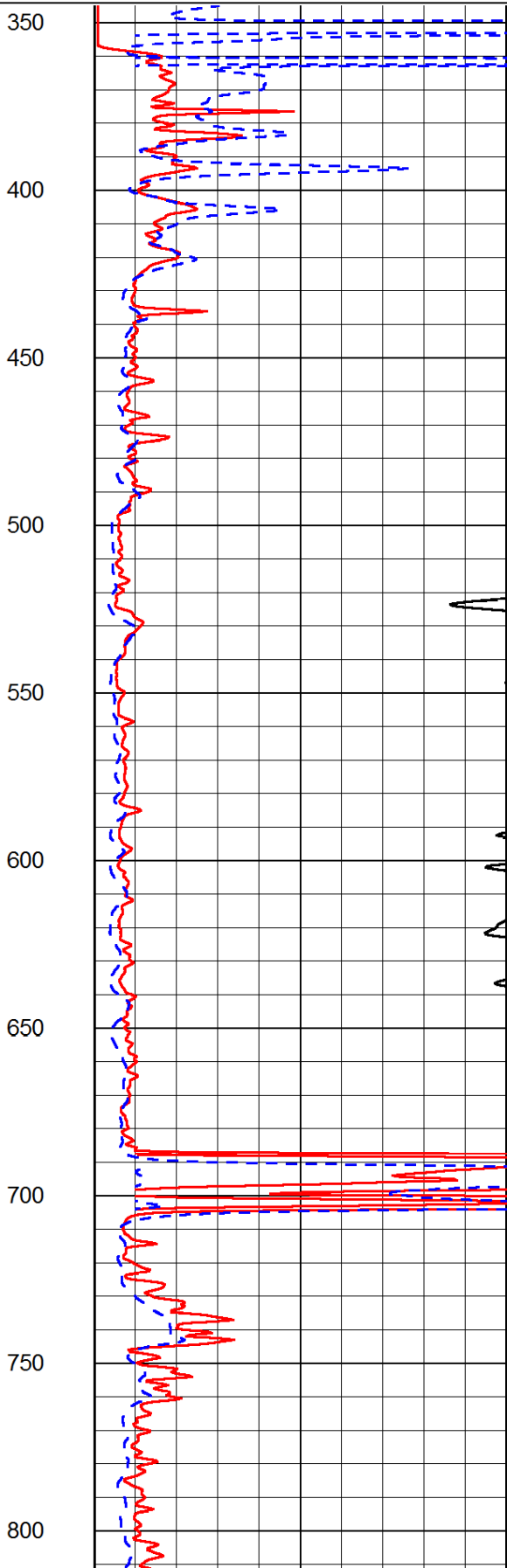
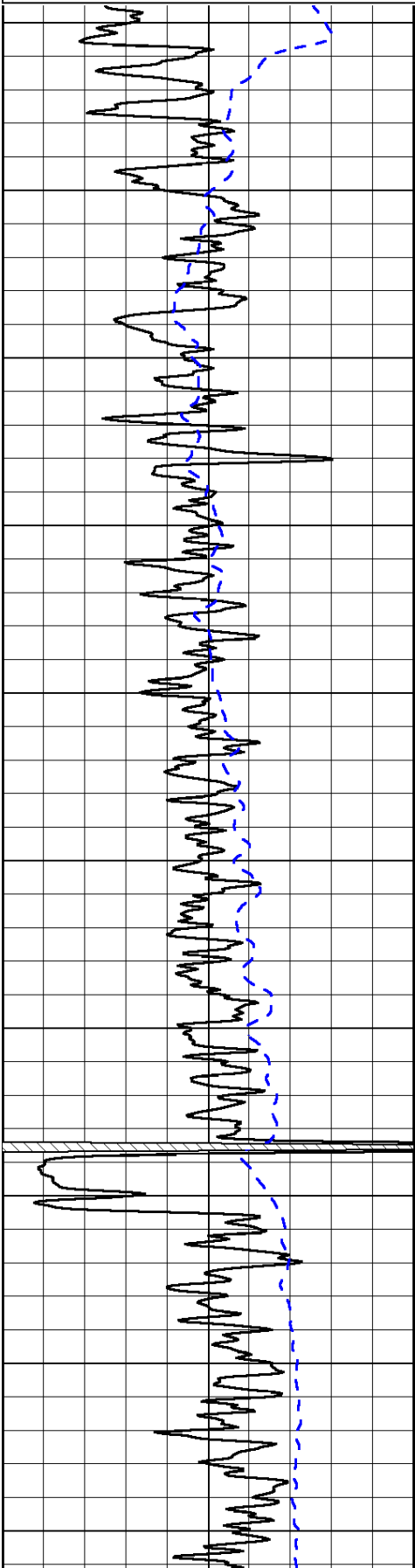
0	Gamma Ray	150
-200	SP (mV)	0

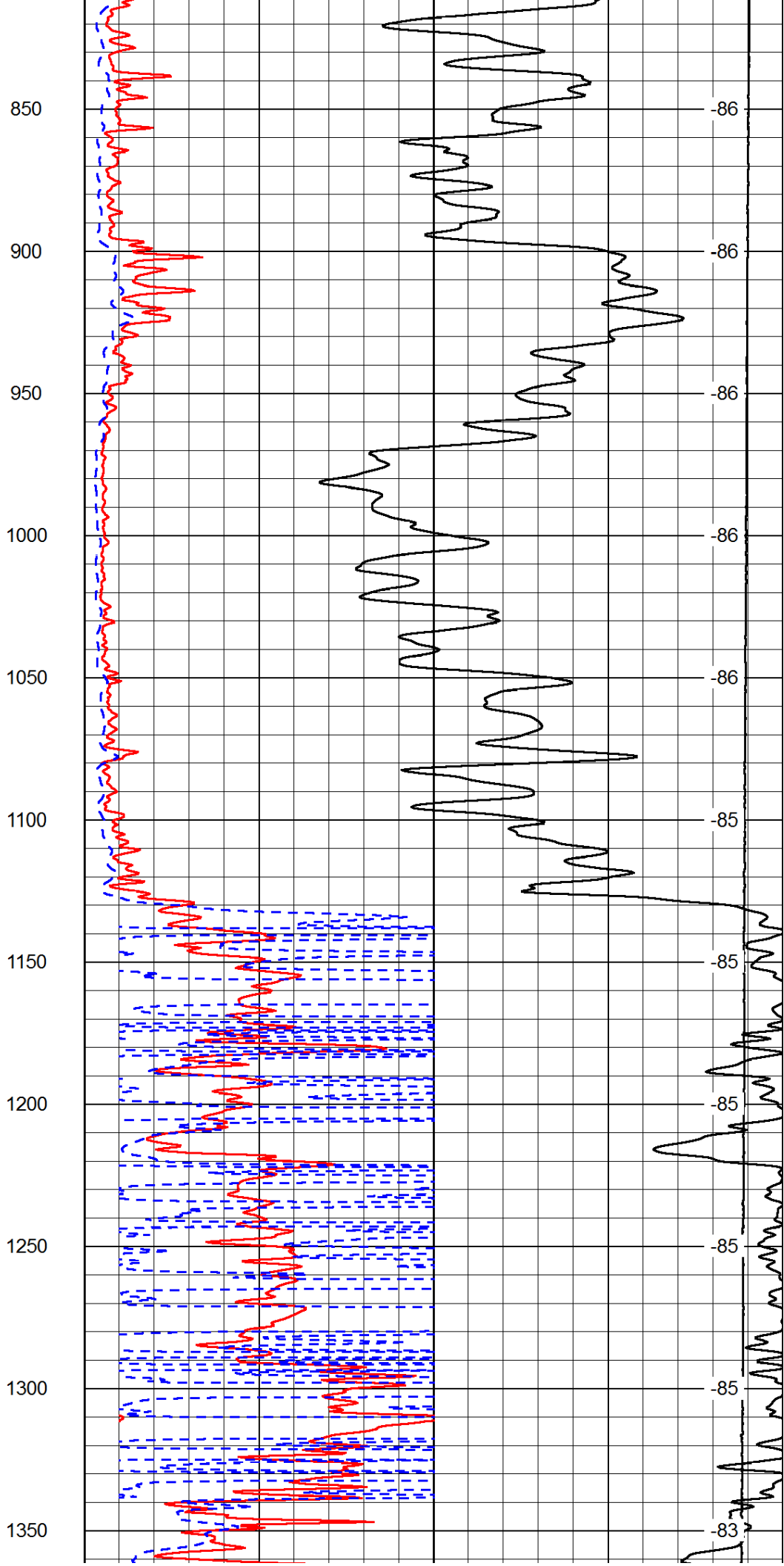
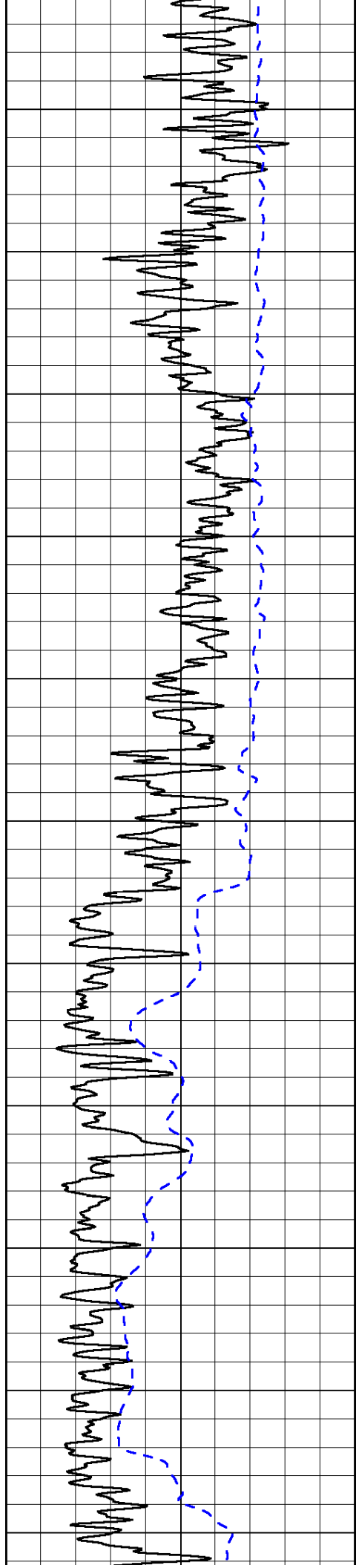
0	Shallow Resistivity	50
0	Deep Resistivity	50

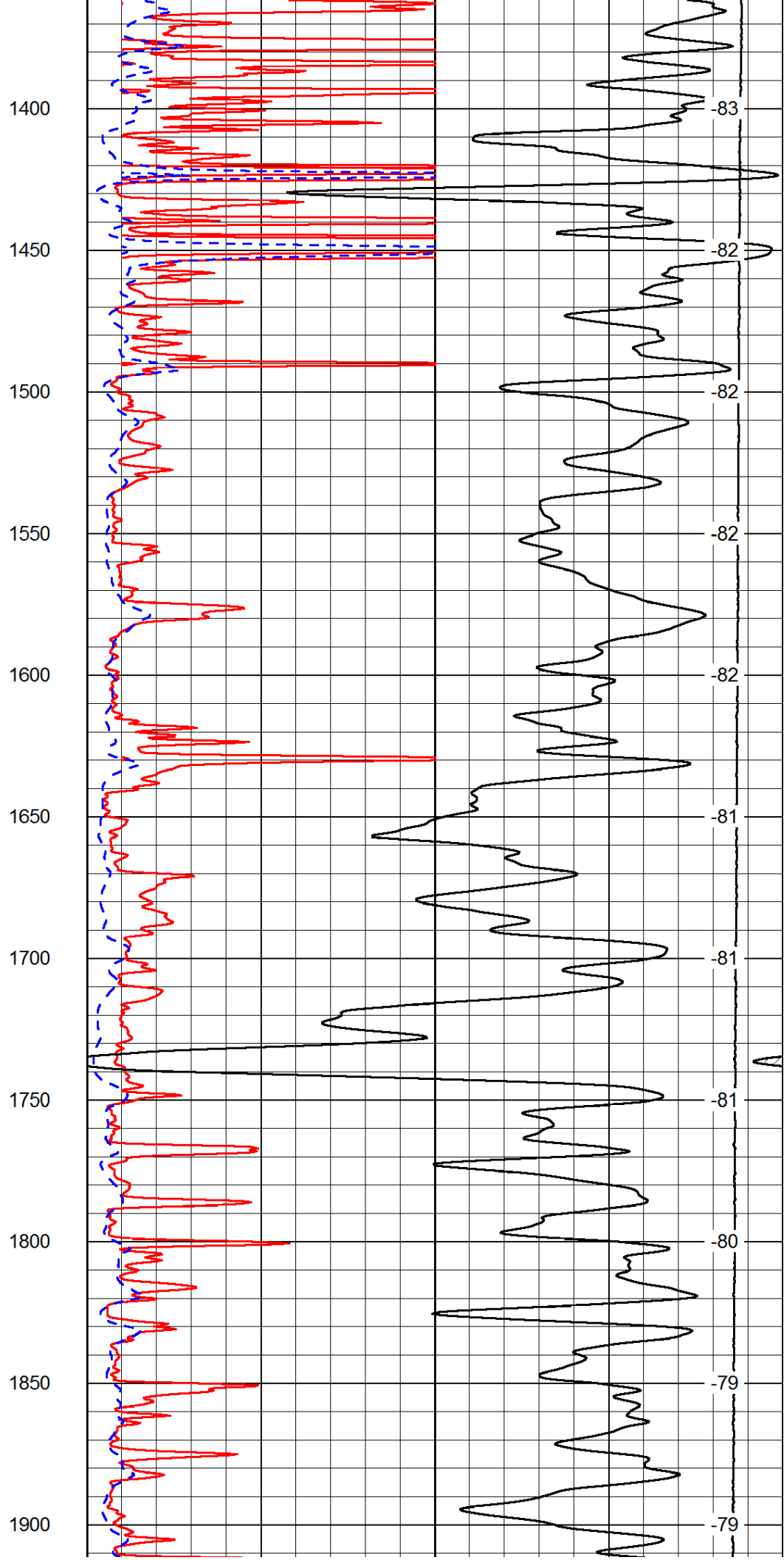
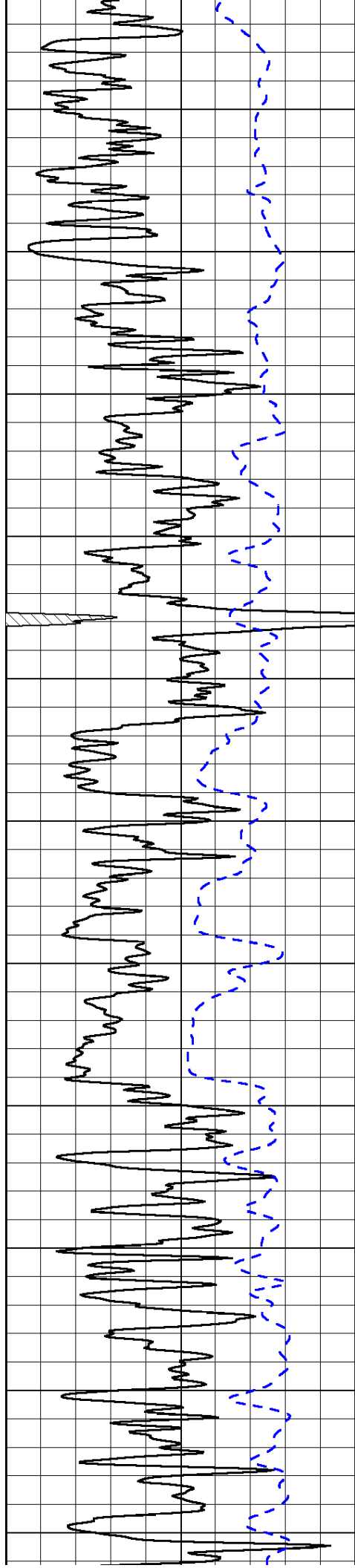
LSPD

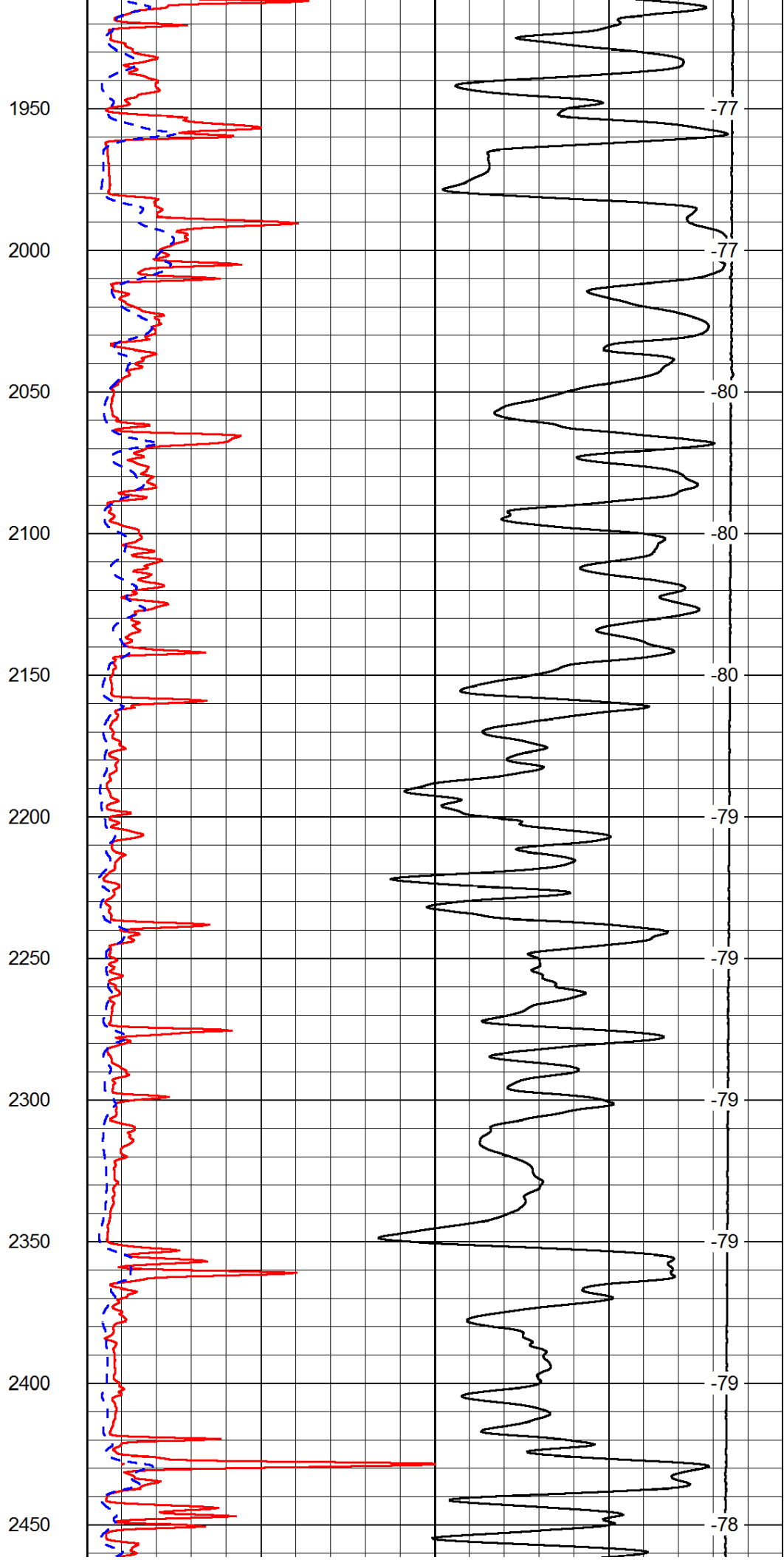
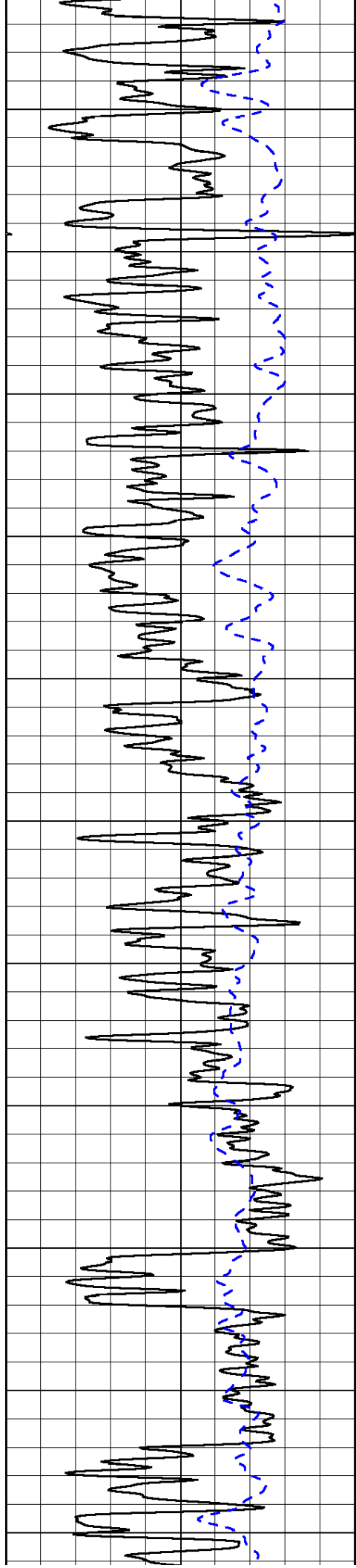
1000	Conductivity	0
15000	Line Tension	0

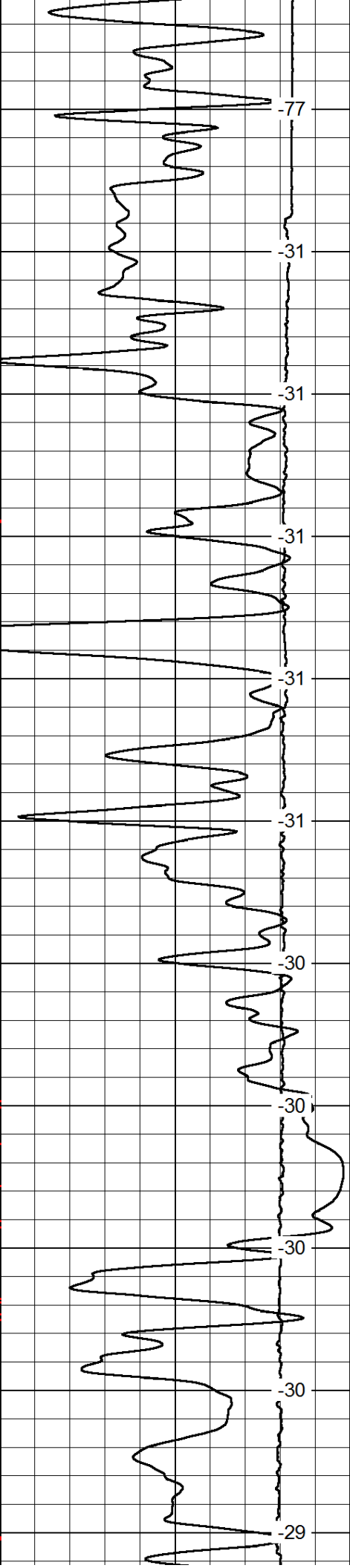
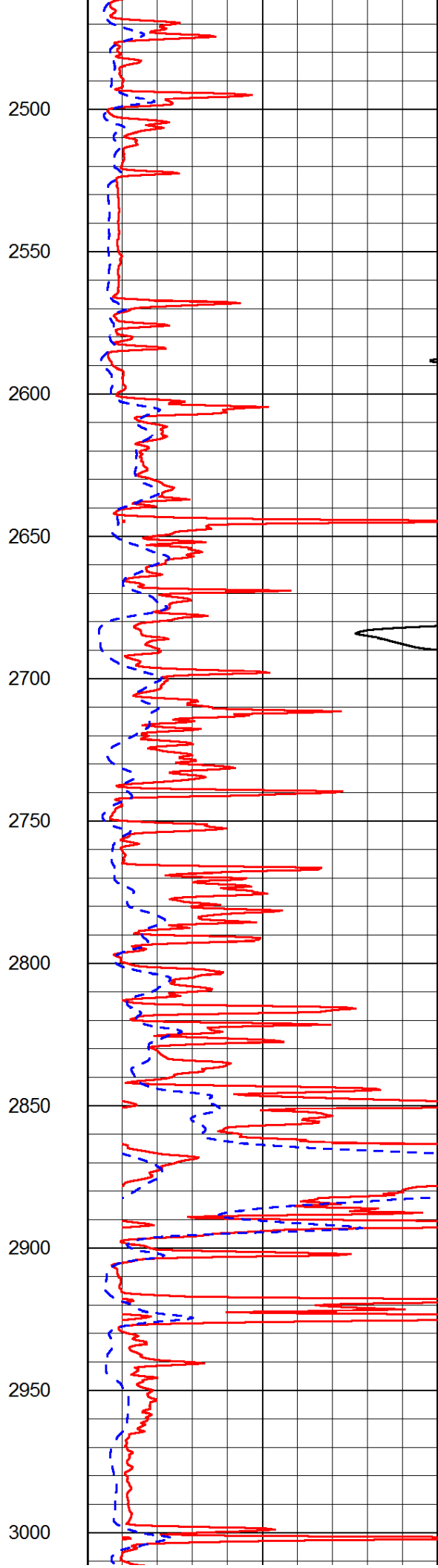
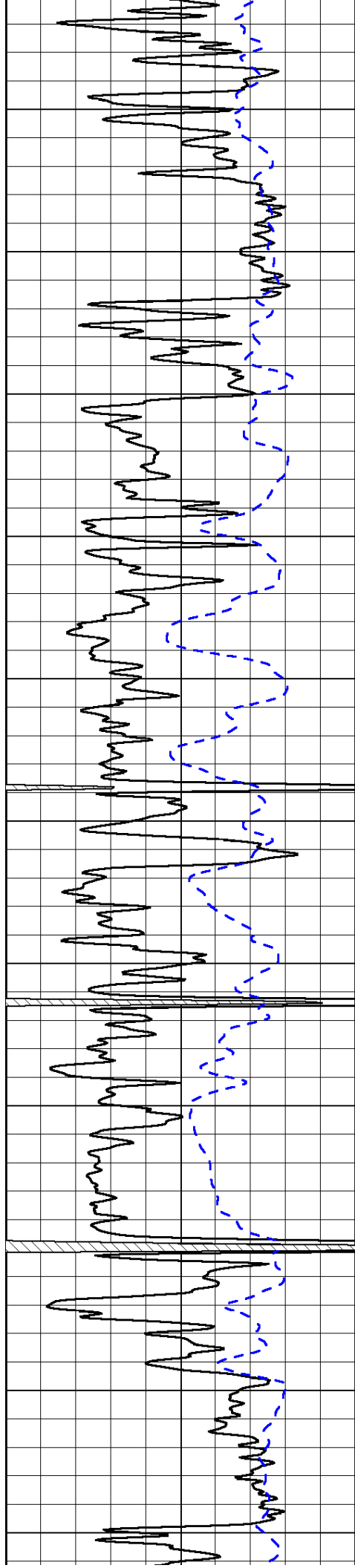
50	Shallow Resistivity	500
50	Deep Resistivity	500

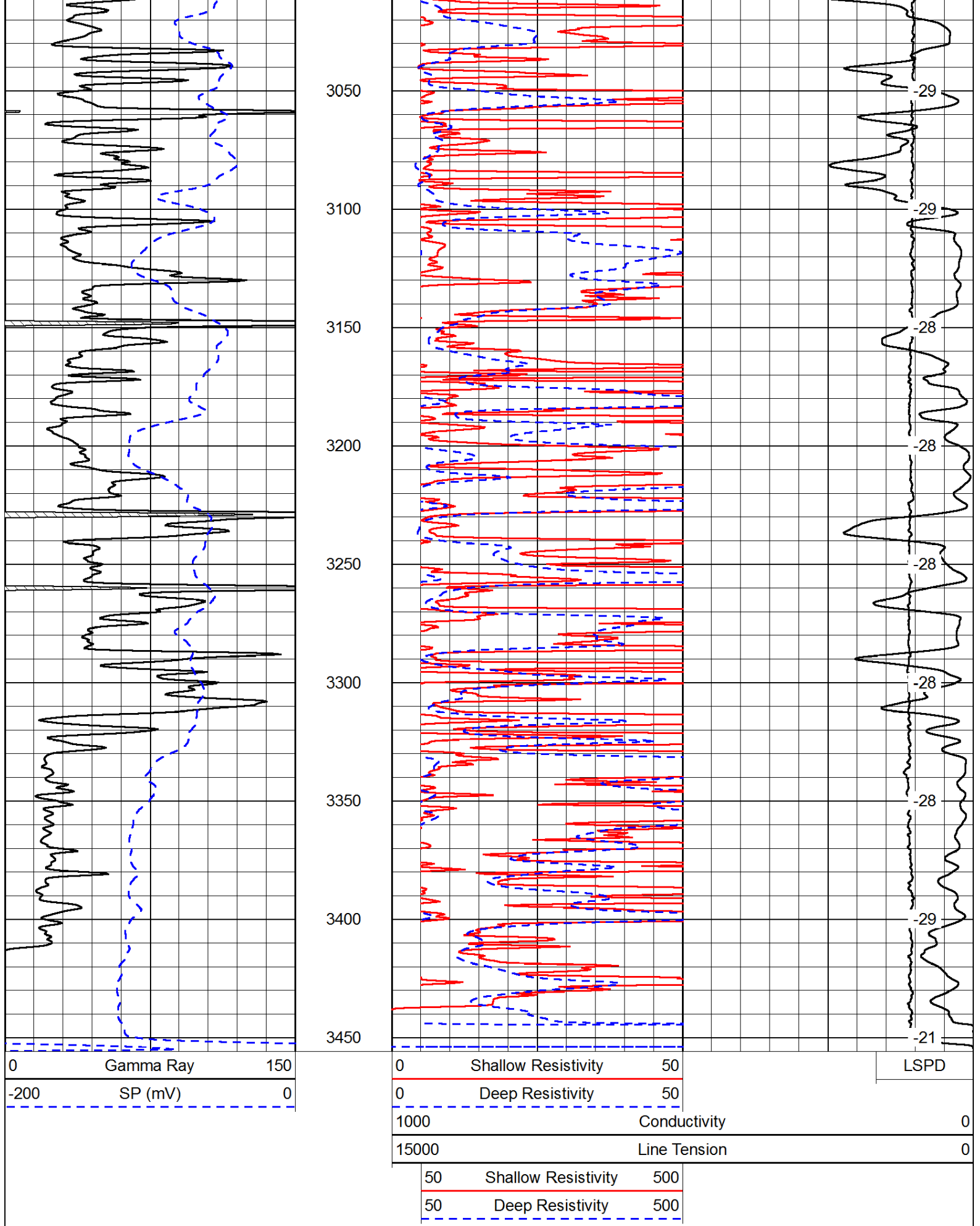










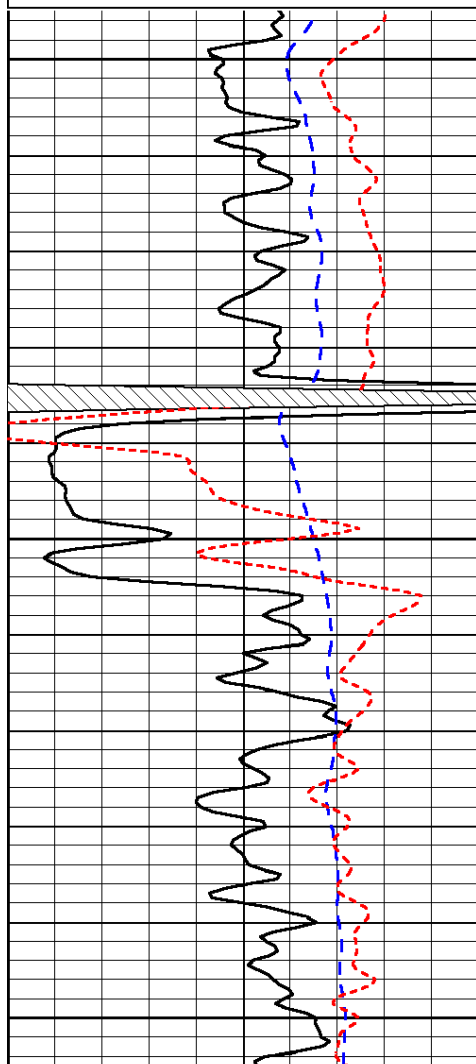


Database File: c:\warrior\data\amwar_white #7-8\american_white_7-8hd.db
Dataset Pathname: dil/awstkm1
Presentation Format: dil
Dataset Creation: Tue Jun 24 01:07:34 2014
Charted by: Depth in Feet scaled 1:240

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

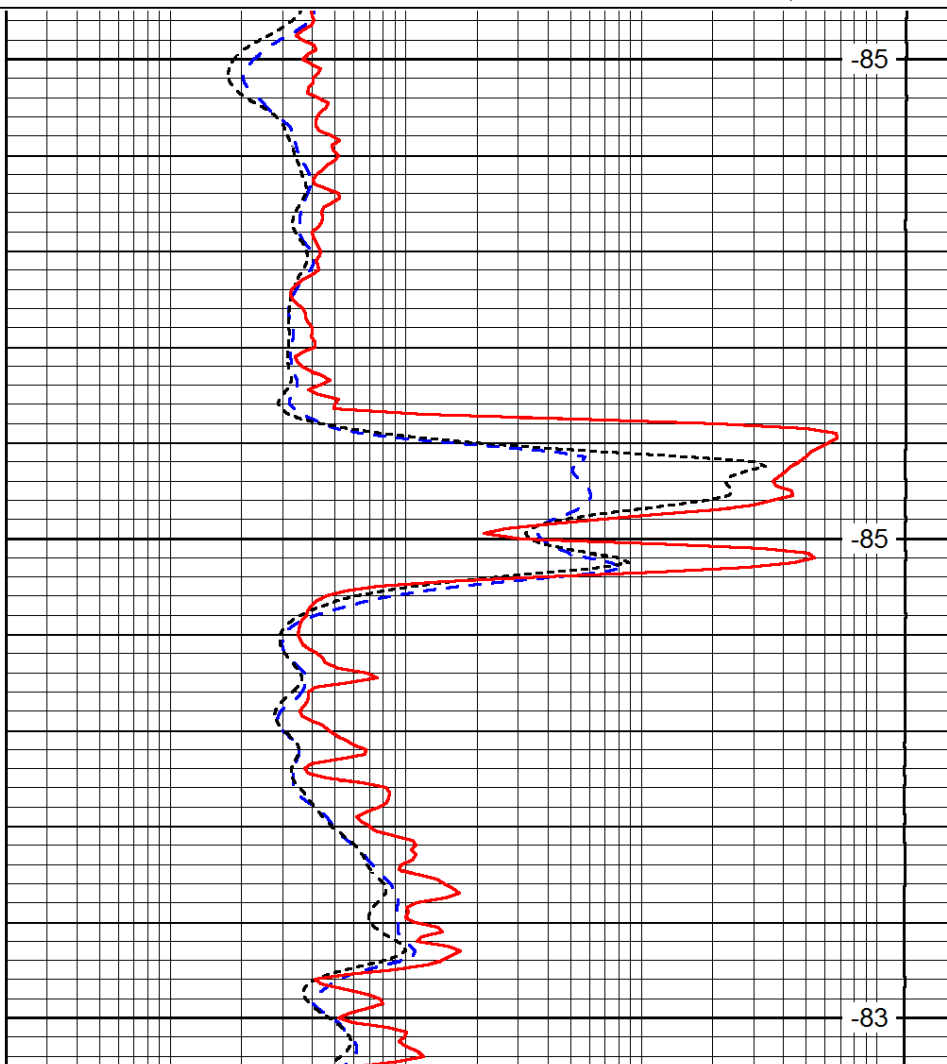
LSPD



650

700

750



-85

-85

-83

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

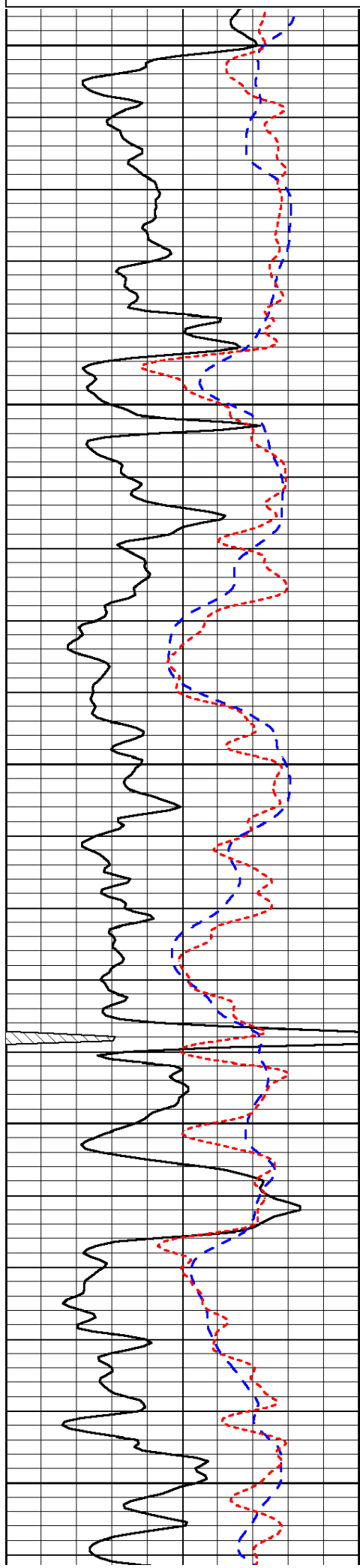
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-200	SP (mV)	0
-160	RxoRt	40

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

LSPD



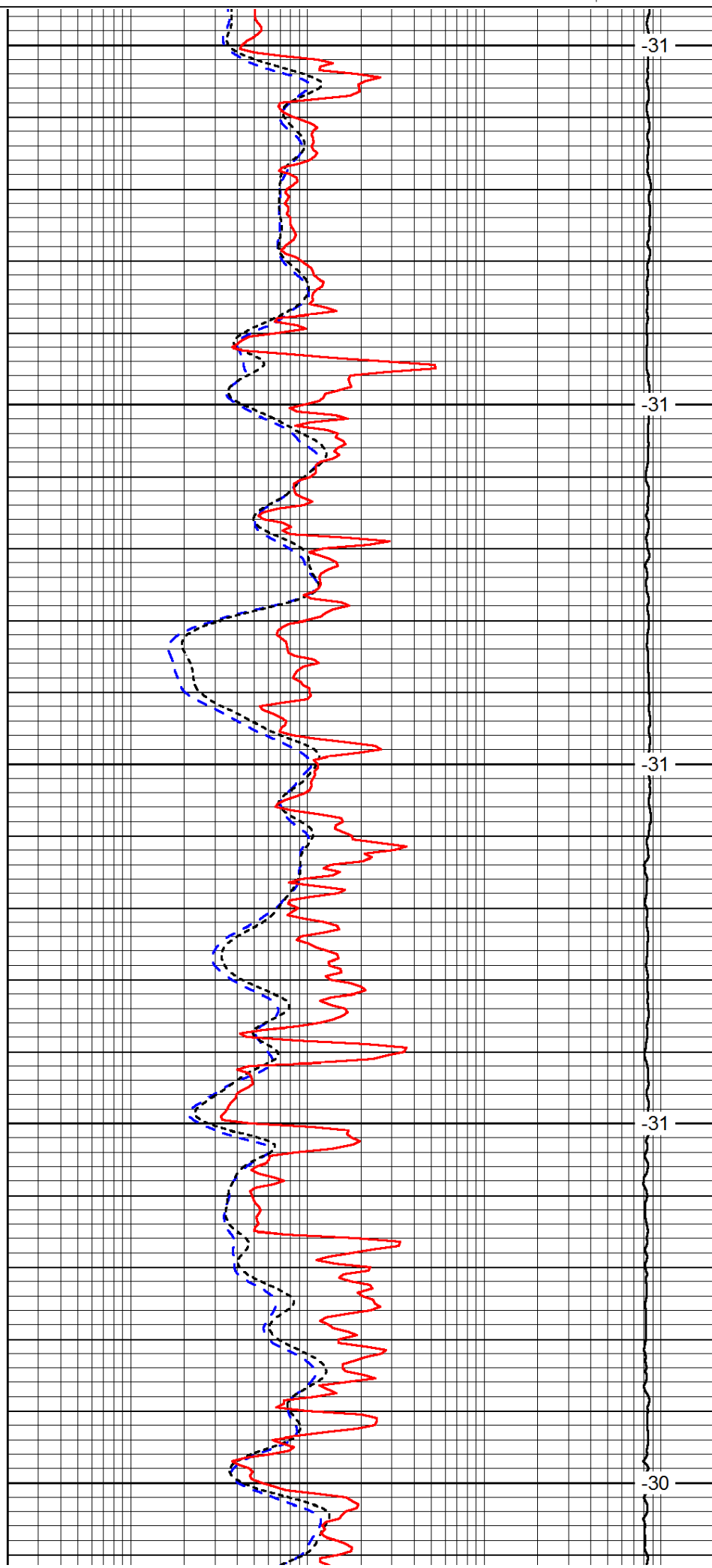
2600

2650

2700

2750

2800



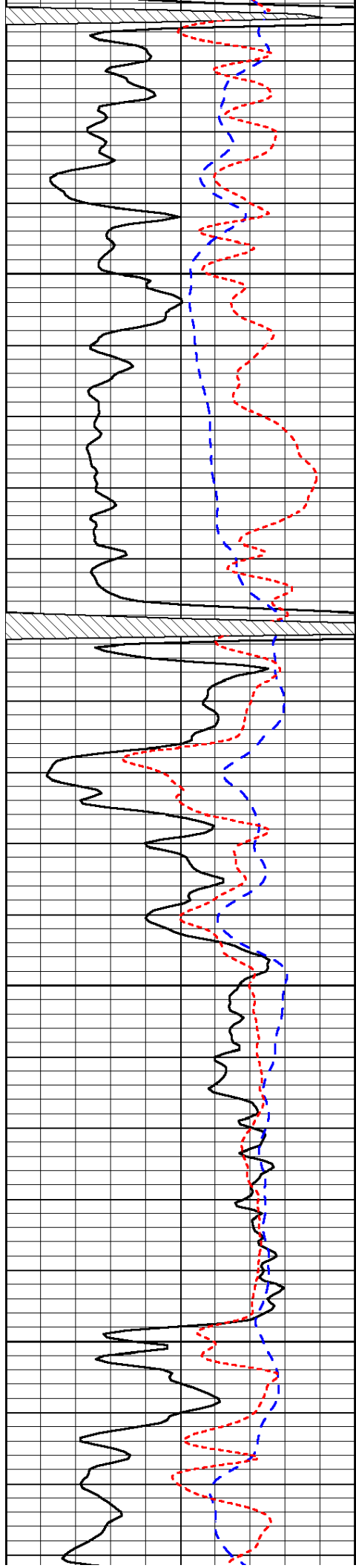
-31

-31

-31

-31

-30

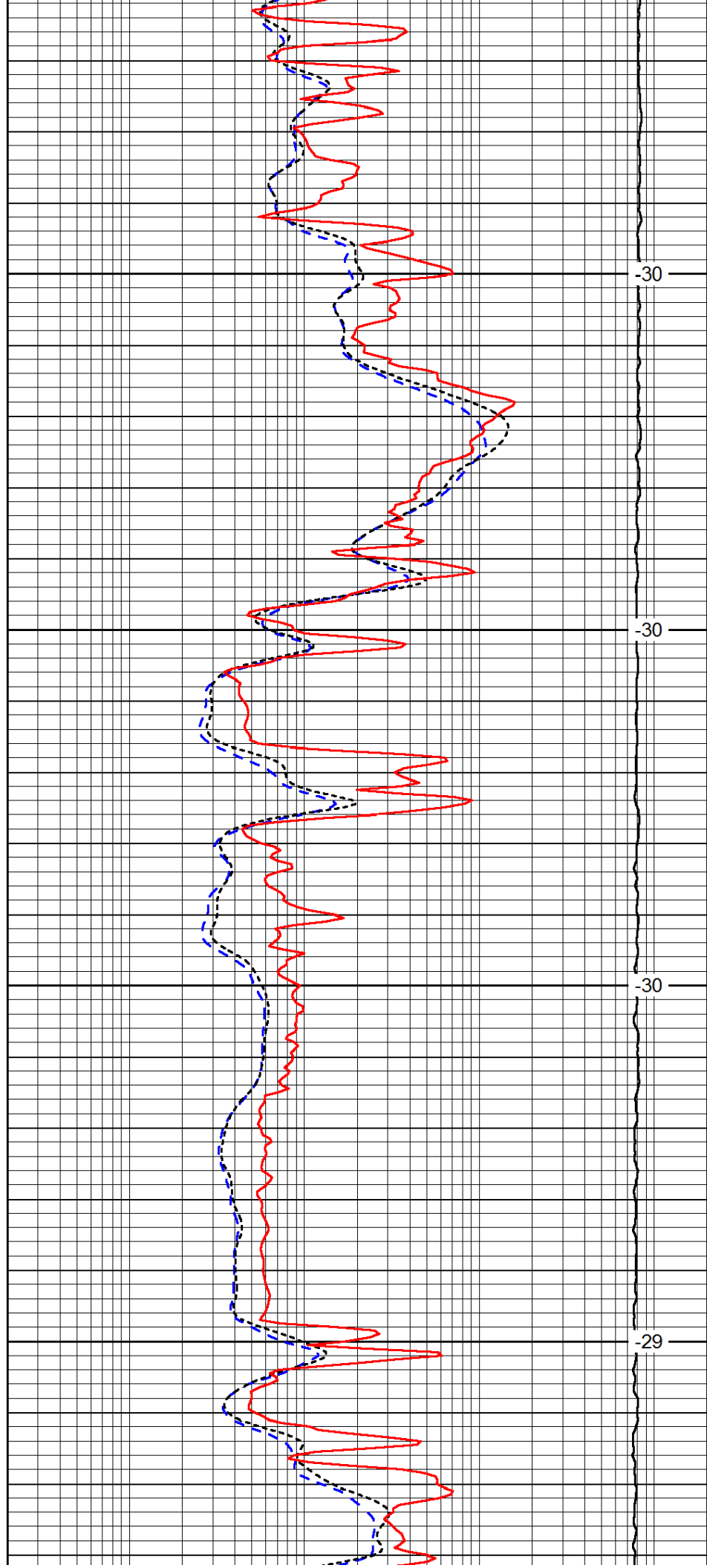


2850

2900

2950

3000

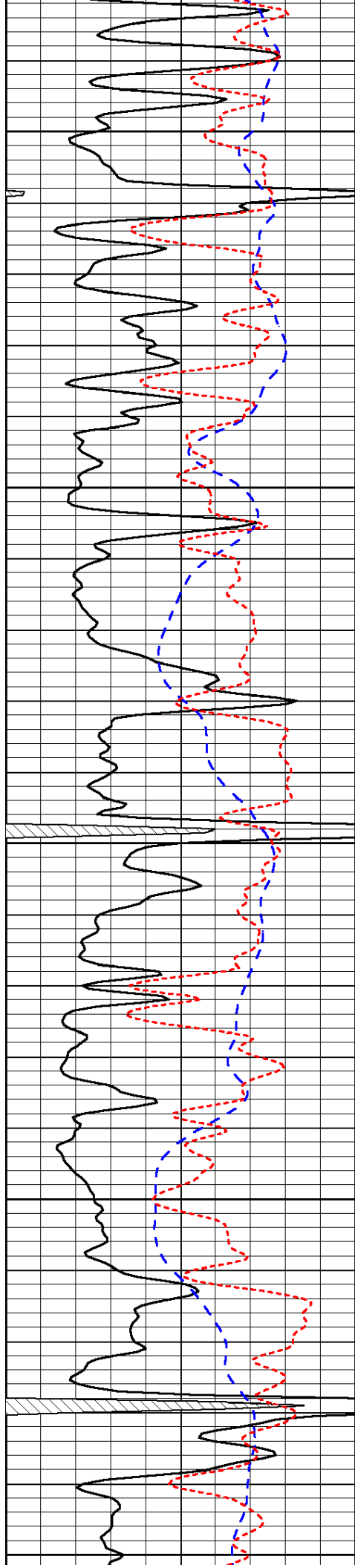


-30

-30

-30

-29



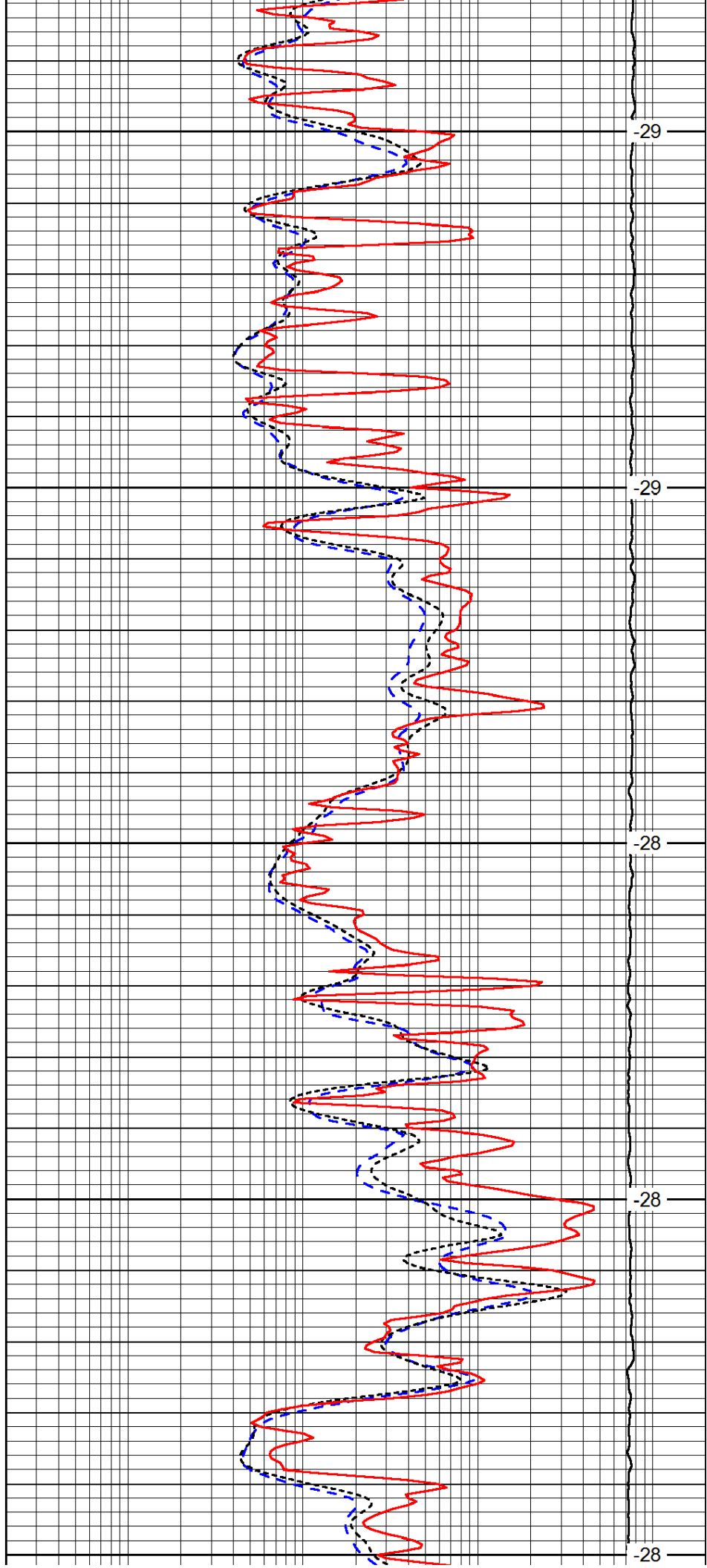
3050

3100

3150

3200

3250



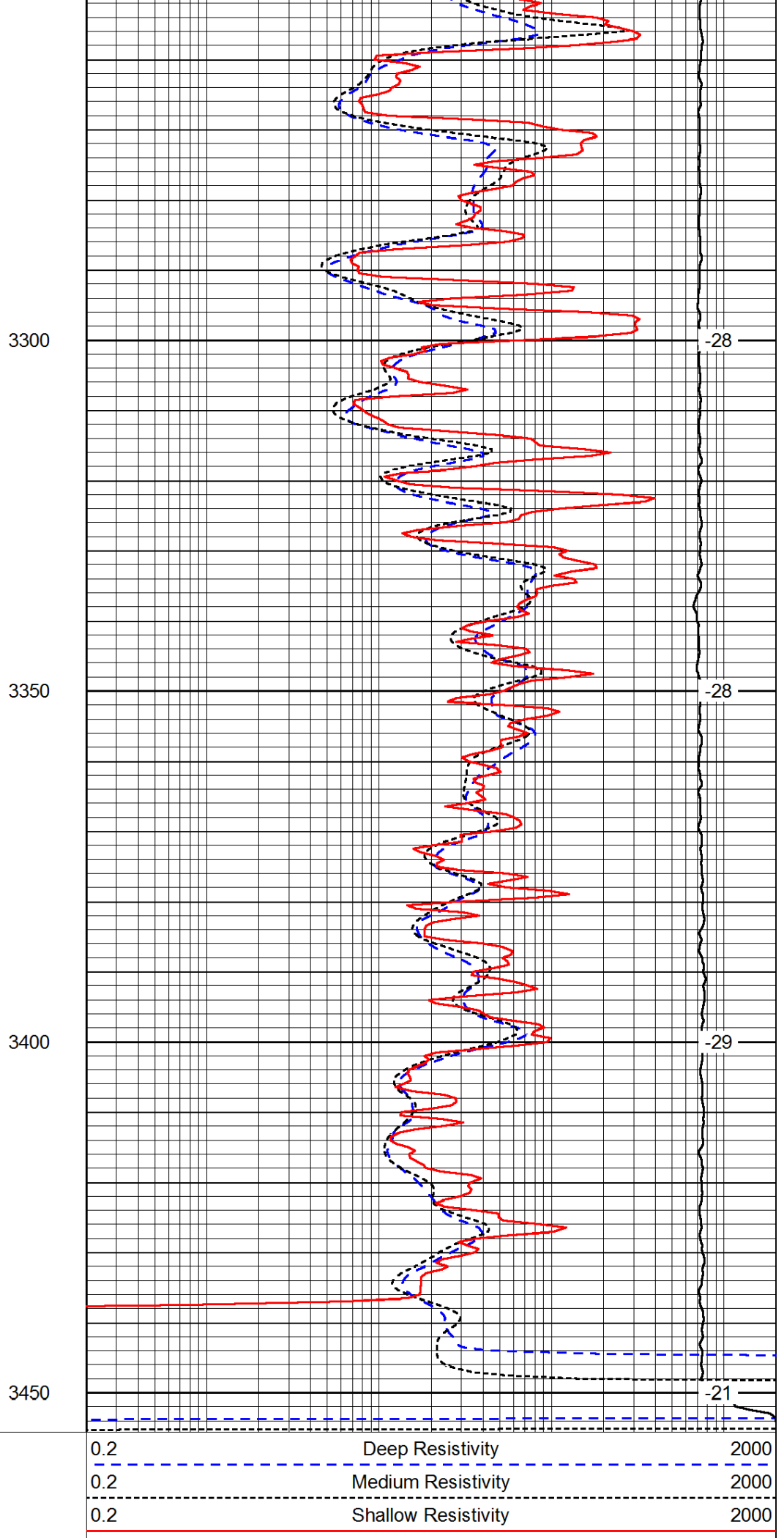
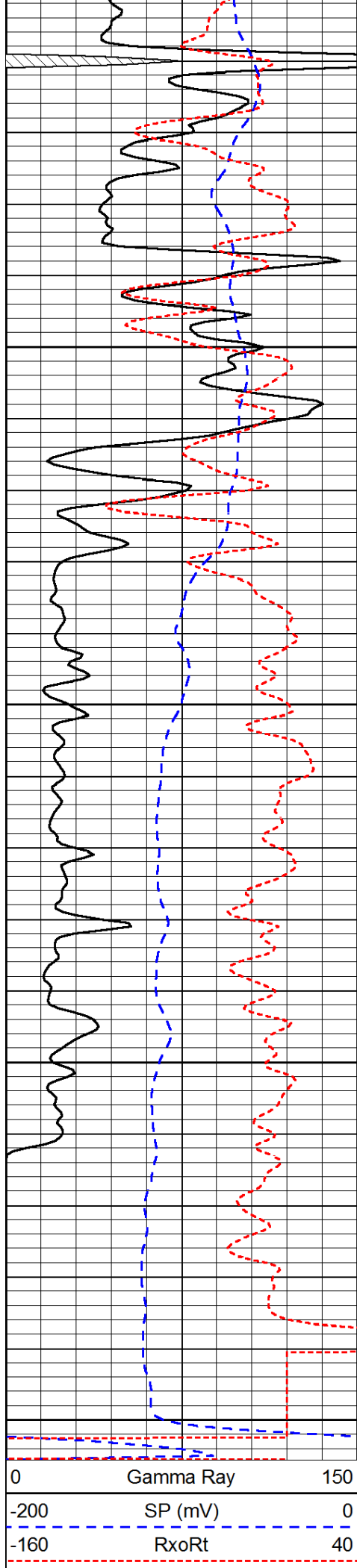
-29

-29

-28

-28

-28



	15000	Line tension	0
			LSPD