



Dual Induction Log

Pioneer Energy Services

API No.	Company American Warrior, Inc.		
	Well White # 6-8		
	Field		
	County Ellsworth	State	Kansas
	Location SW-NW-SE-NW 1062' FNL & 1388' FWL	Other Services CNL/CDL MEL	
	Sec: 8 Twp: 16S Rge: 10W	Elevation	
Permanent Datum	Ground Level	Elevation 1868	
Log Measured From	Kelly Bushing	8 Ft. Above Perm. Datum	
Drilling Measured From	From Kelly Bushing	K.B. 1876 D.F. 1868 G.L. 1868	
Date	12/1/2013		
Run Number	One		
Depth Driller	3460		
Depth Logger	3459		
Bottom Logged Interval	3458		
Top Log Interval	350		
Casing Driller	8.625 @ 376		
Casing Logger	365		
Bit Size	7.875		
Type Fluid in Hole	Chemical		
Salinity, ppm CL	6.600		
Density / Viscosity	9.5 51		
pH / Fluid Loss	9.5 8.0		
Source of Sample	Flowline		
Rm @ Meas. Temp	.36 @ 45		
Rmf @ Meas. Temp	.27 @ 45		
Rmc @ Meas. Temp	.49 @ 45		
Source of Rmf / Rmc	Charts		
Rm @ BHT	.15 @ 111		
Operating Rig Time	3 1/2 Hours		
Max Rec. Temp. F	111		
Equipment Number	91		
Location	Hays		
Recorded By	J. Henrickson		
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 KS
10 South, 1 1/4 East, South Into(Follow Lease Road Back to West)

Database File: c:\warrior\data\amwar_white # 6-8\americanwarrior_120113hd.db
Dataset Pathname: DIL\awstk
Presentation Format: dil2in
Dataset Creation: Sun Dec 01 06:34:07 2013
Charted by: Depth in Feet scaled 1:600

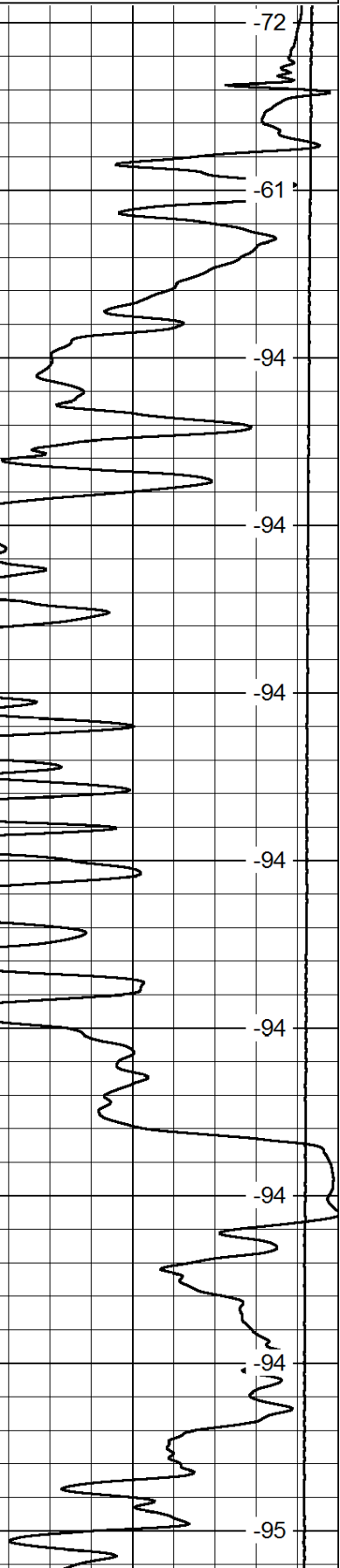
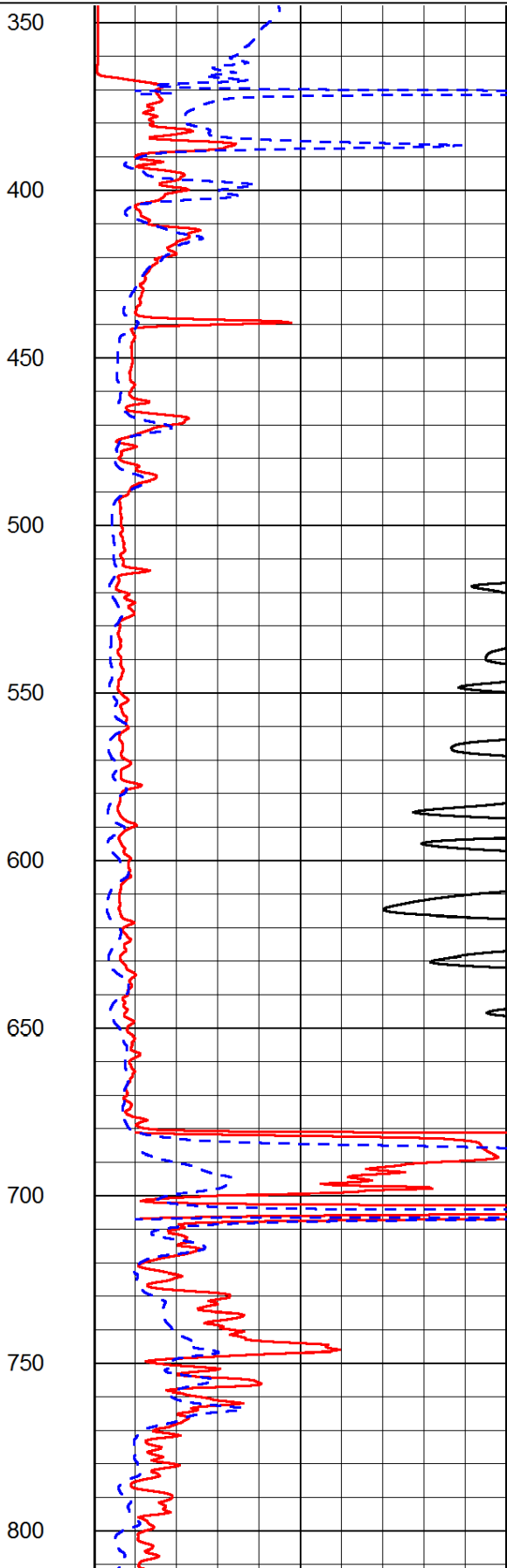
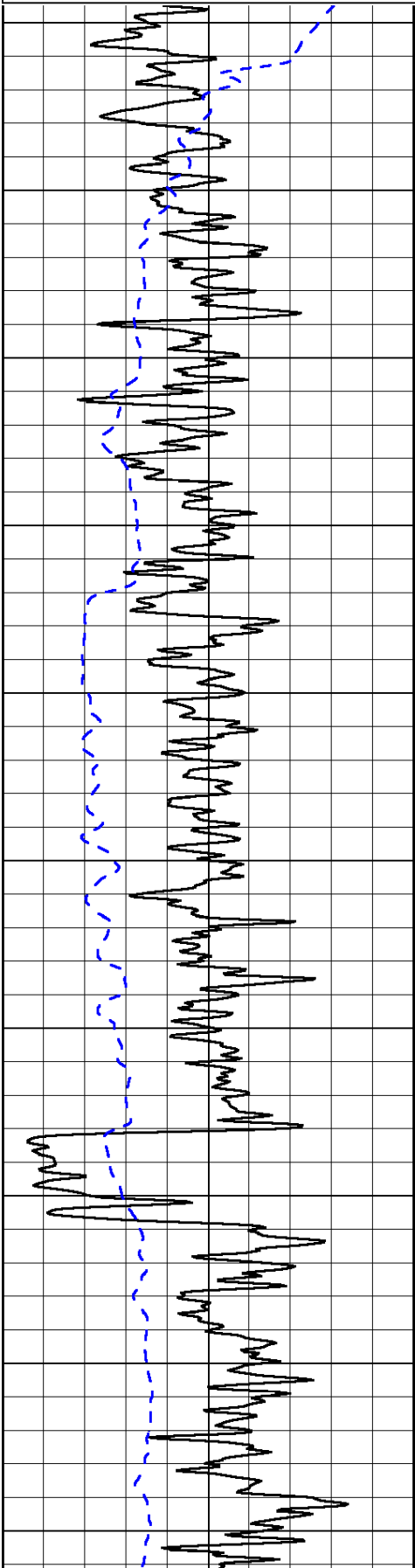
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-200	SP (mV)	0

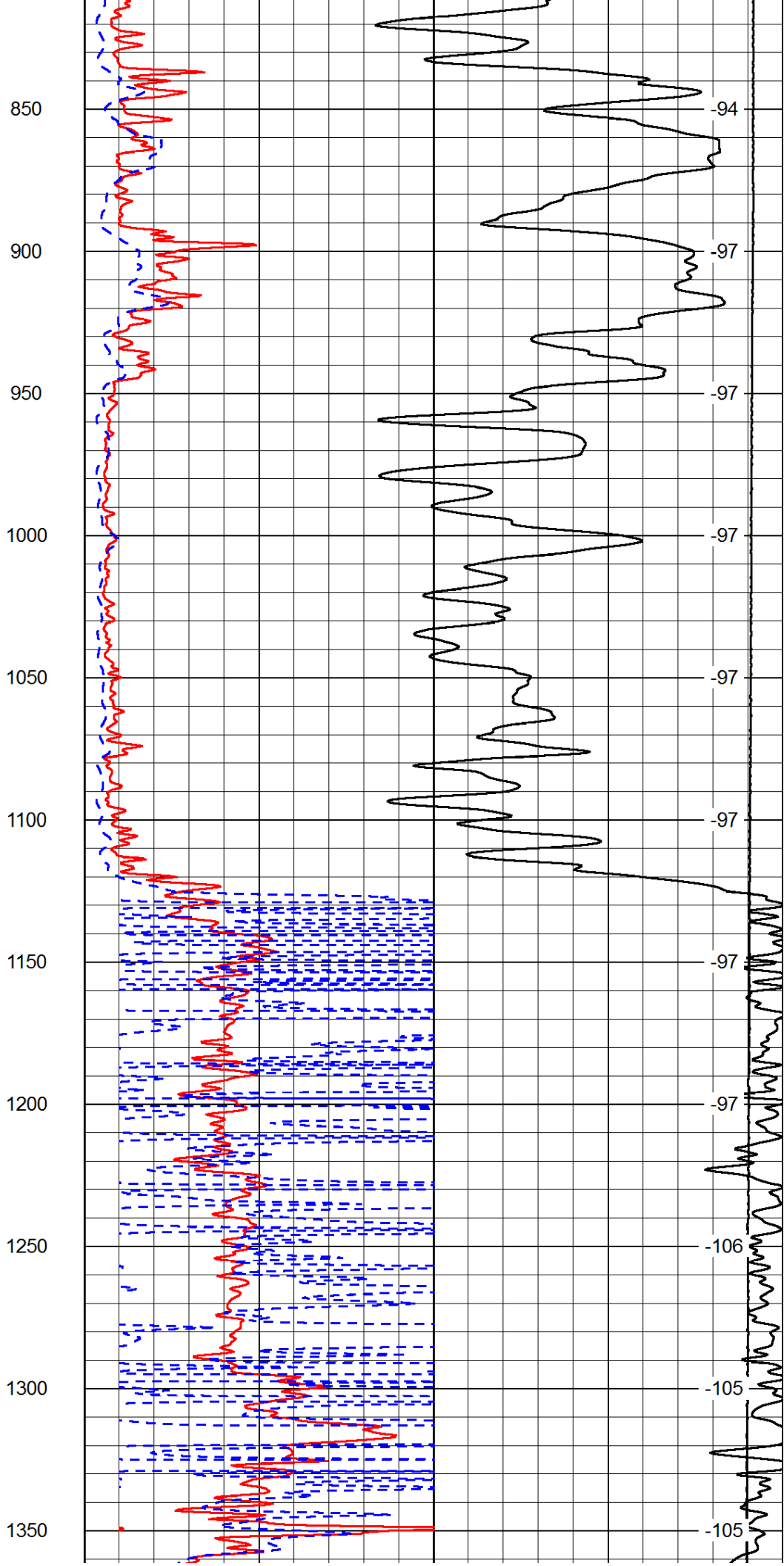
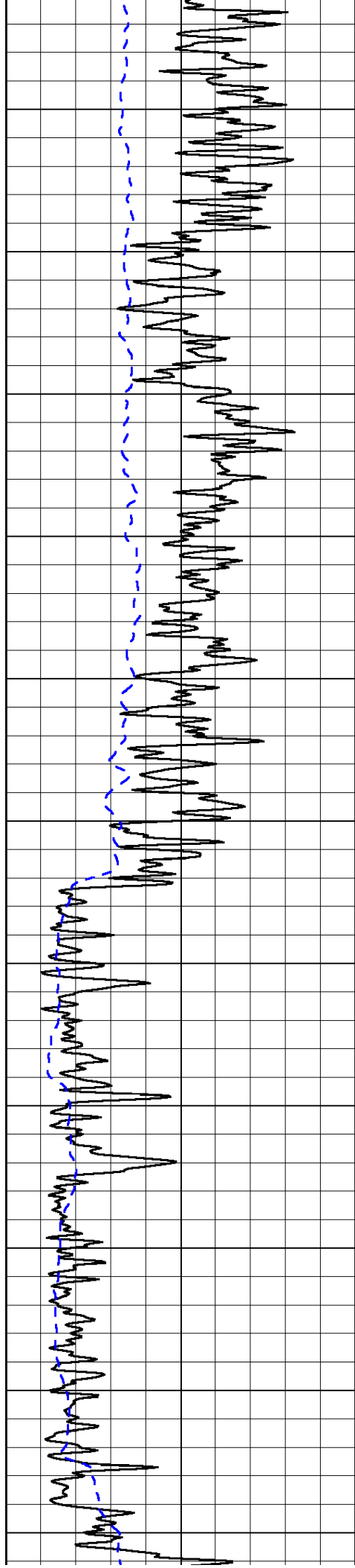
0	Shallow Resistivity	50
0	Deep Resistivity	50

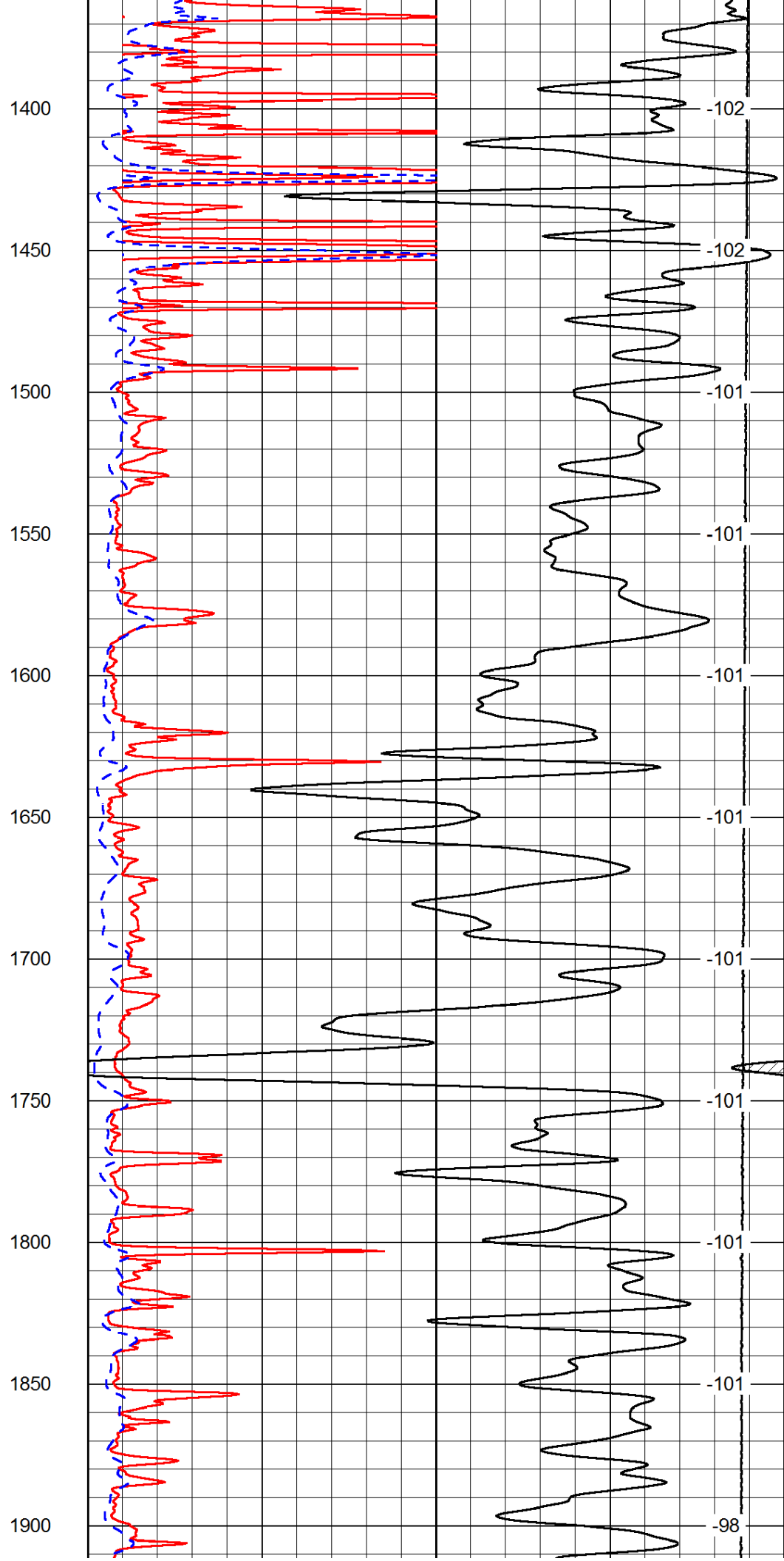
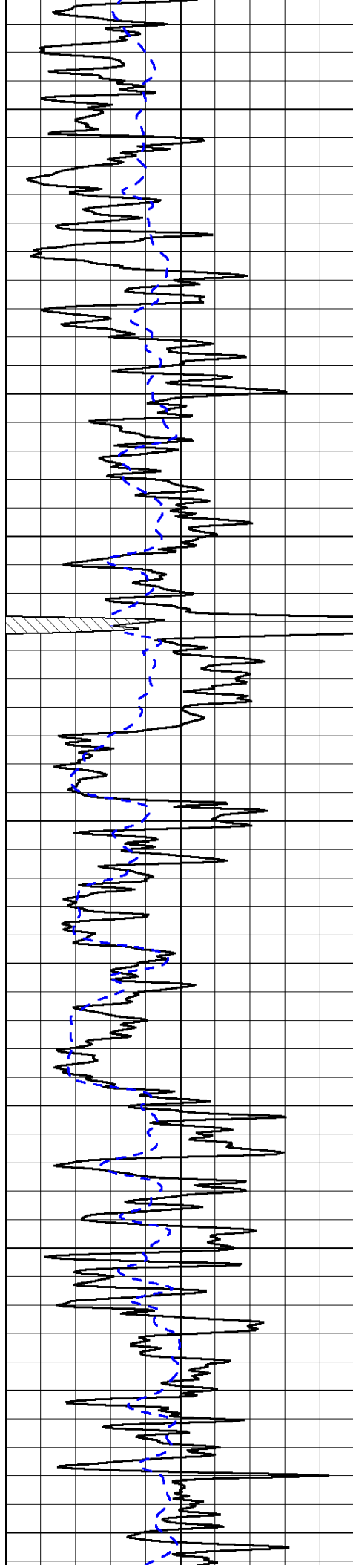
LSPD

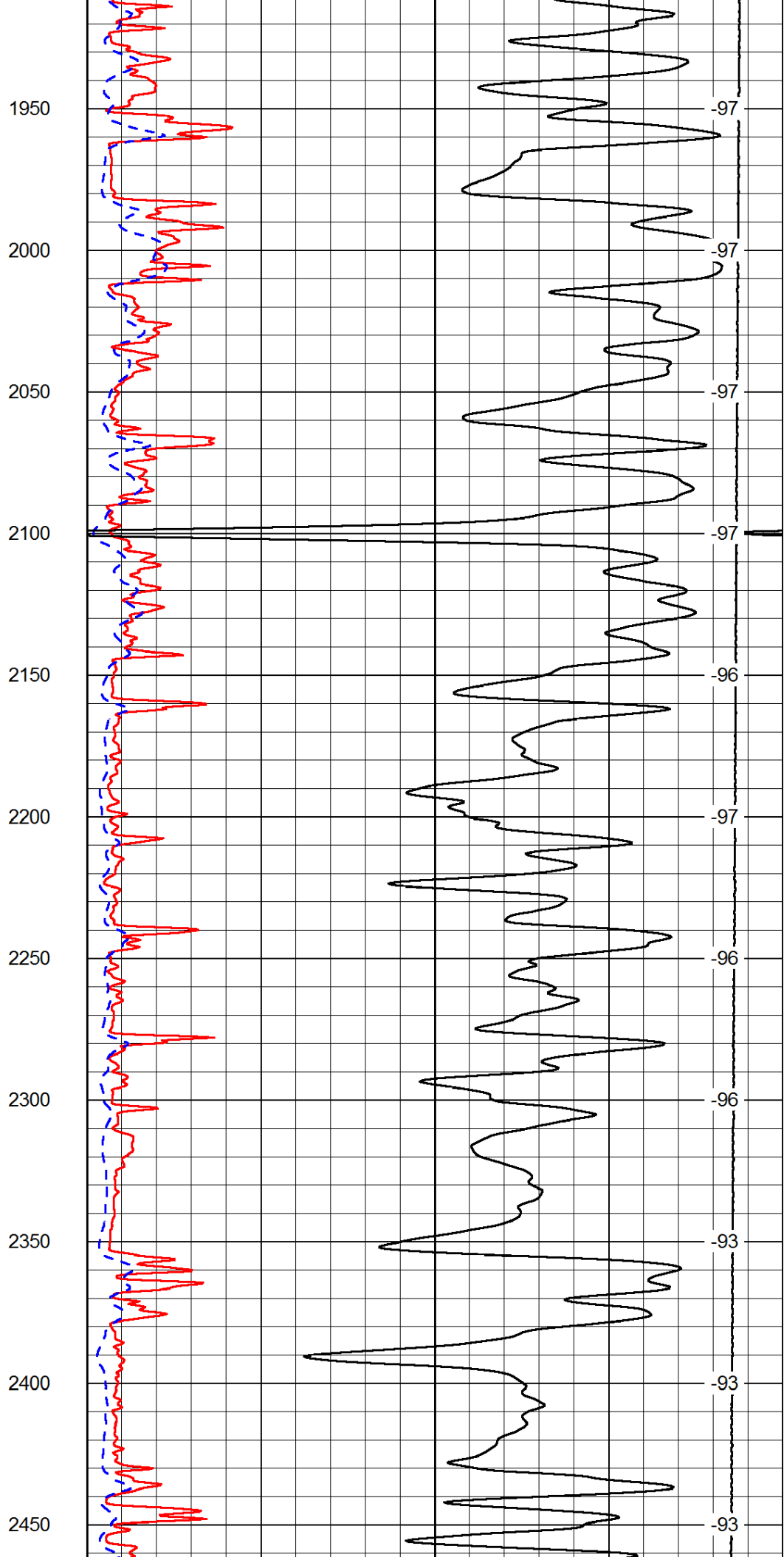
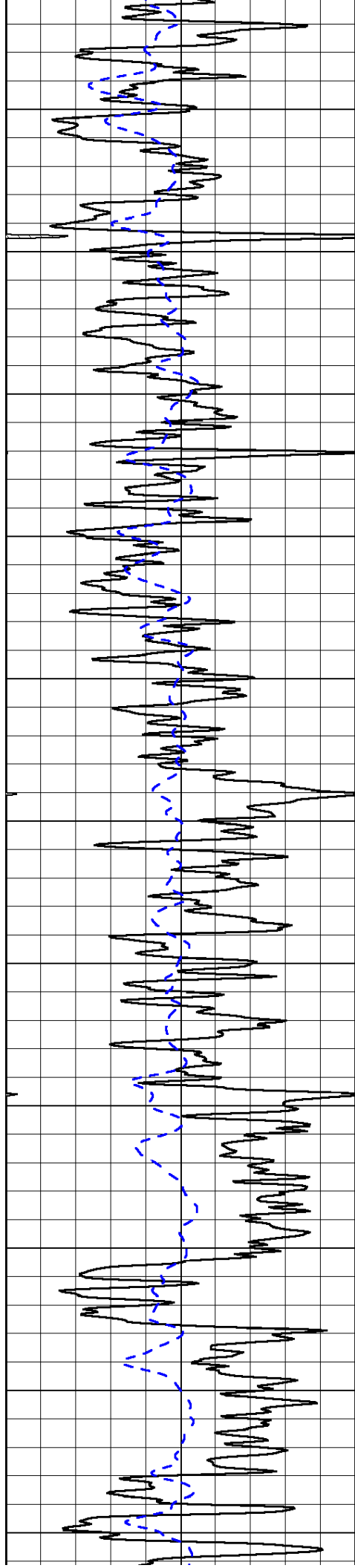
1000	Conductivity	0
15000	Line Tension	0

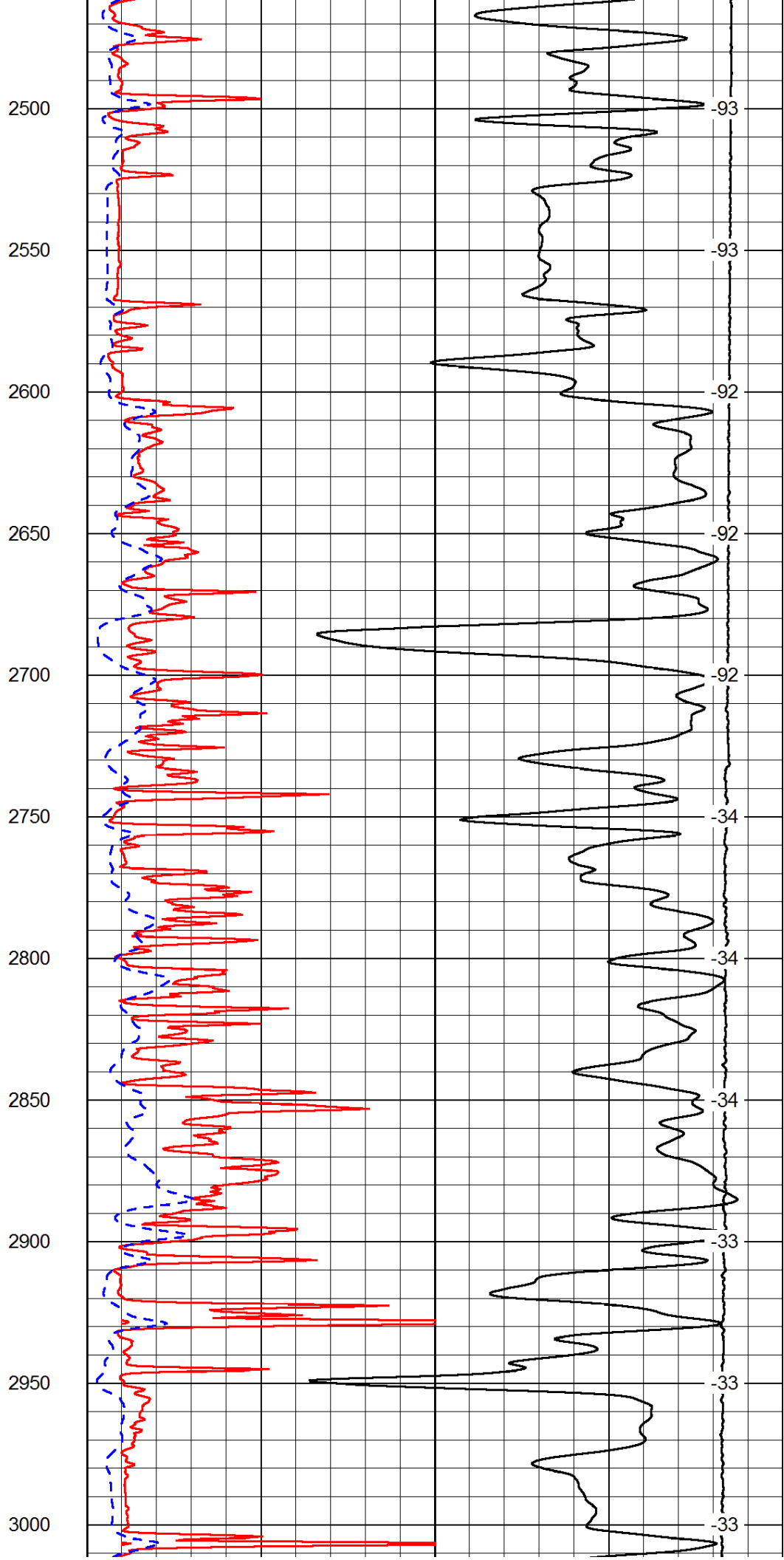
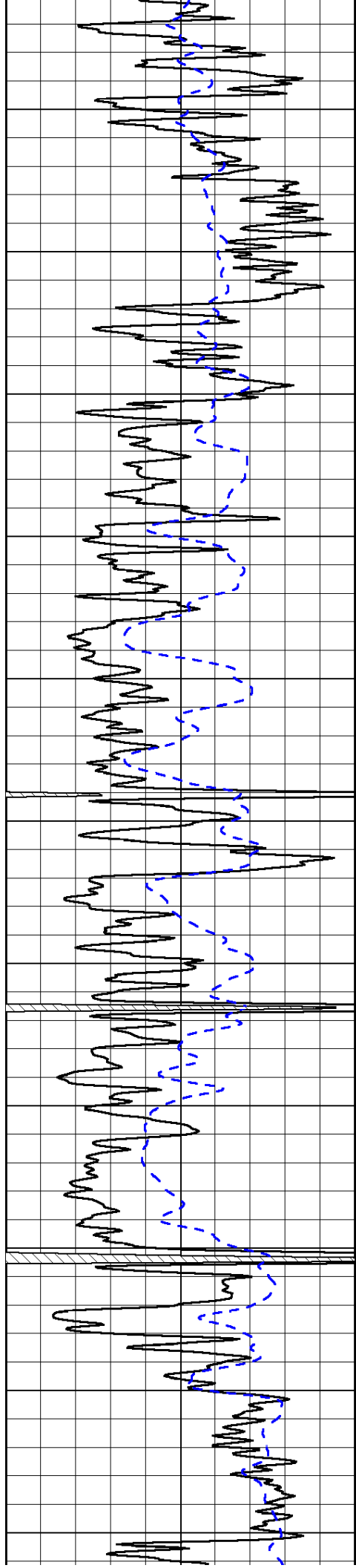
50	Shallow Resistivity	500
50	Deep Resistivity	500

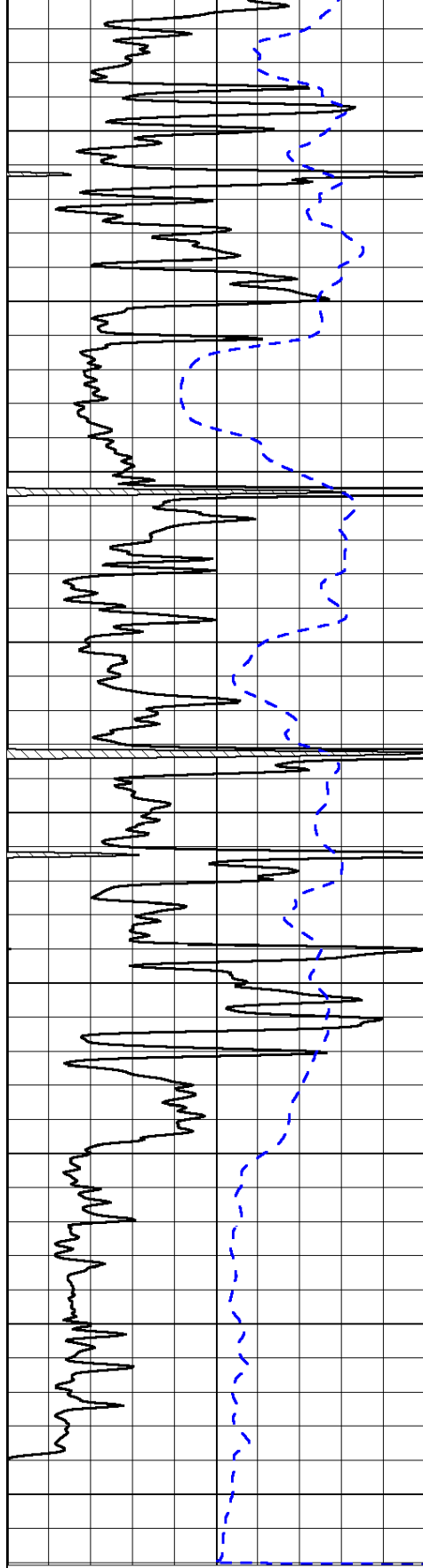




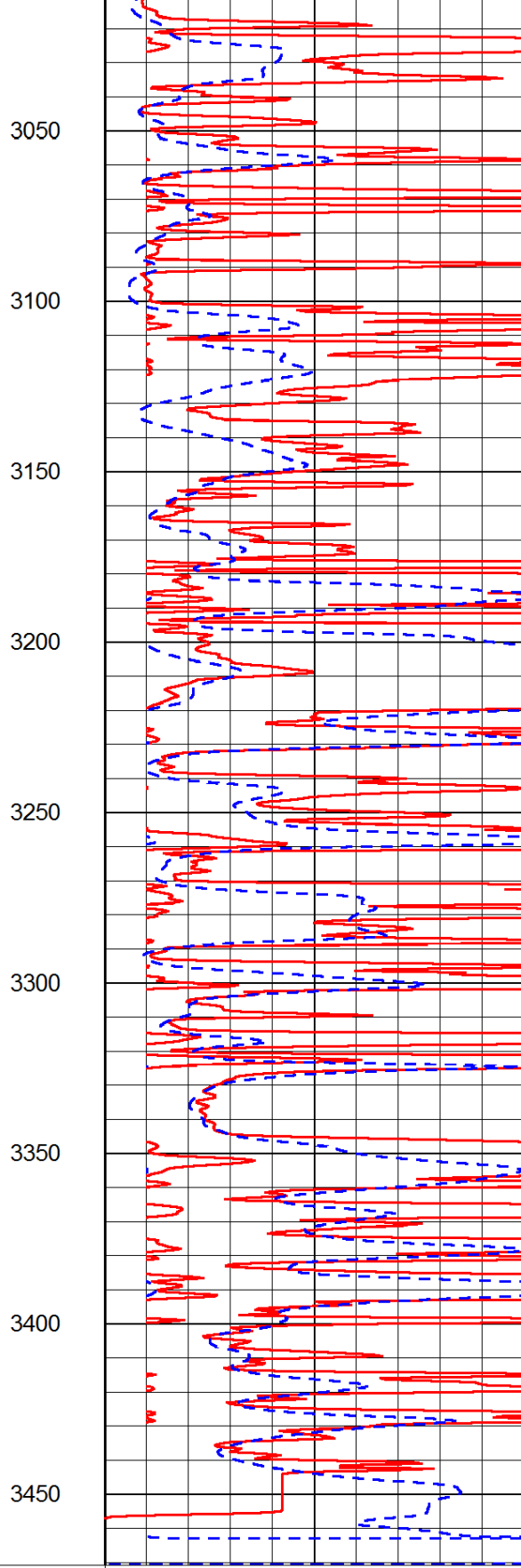




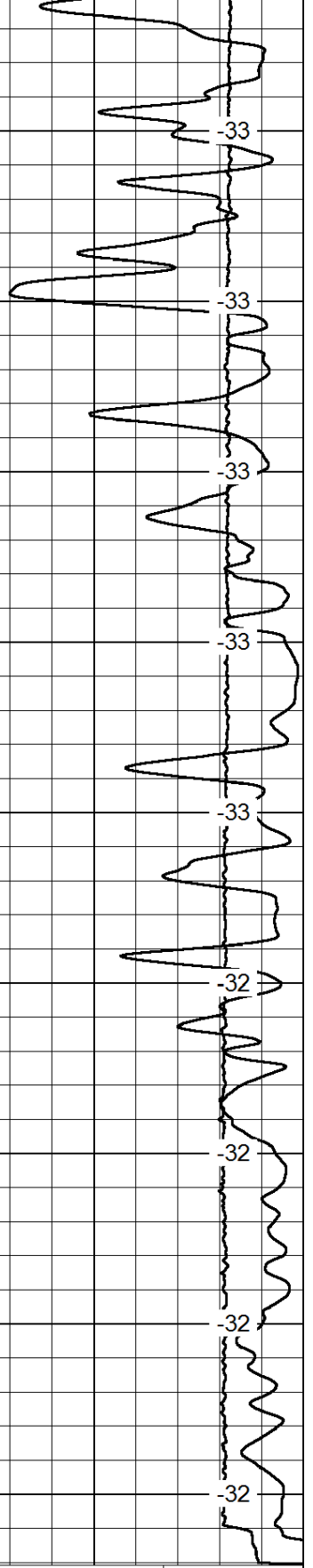




0 Gamma Ray 150
-200 SP (mV) 0



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



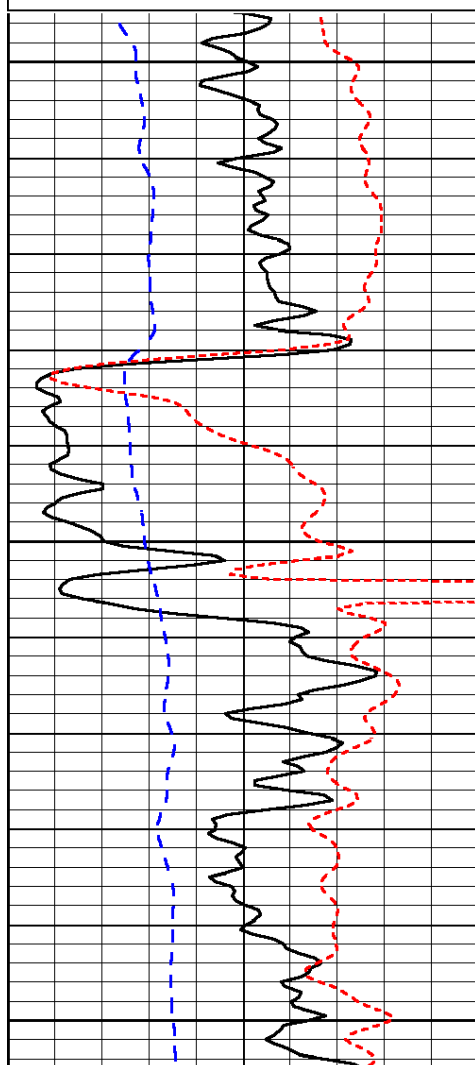
LSPD
0
0

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Dataset Pathname: DIL/awstk
Presentation Format: dil
Dataset Creation: Sun Dec 01 06:34:07 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

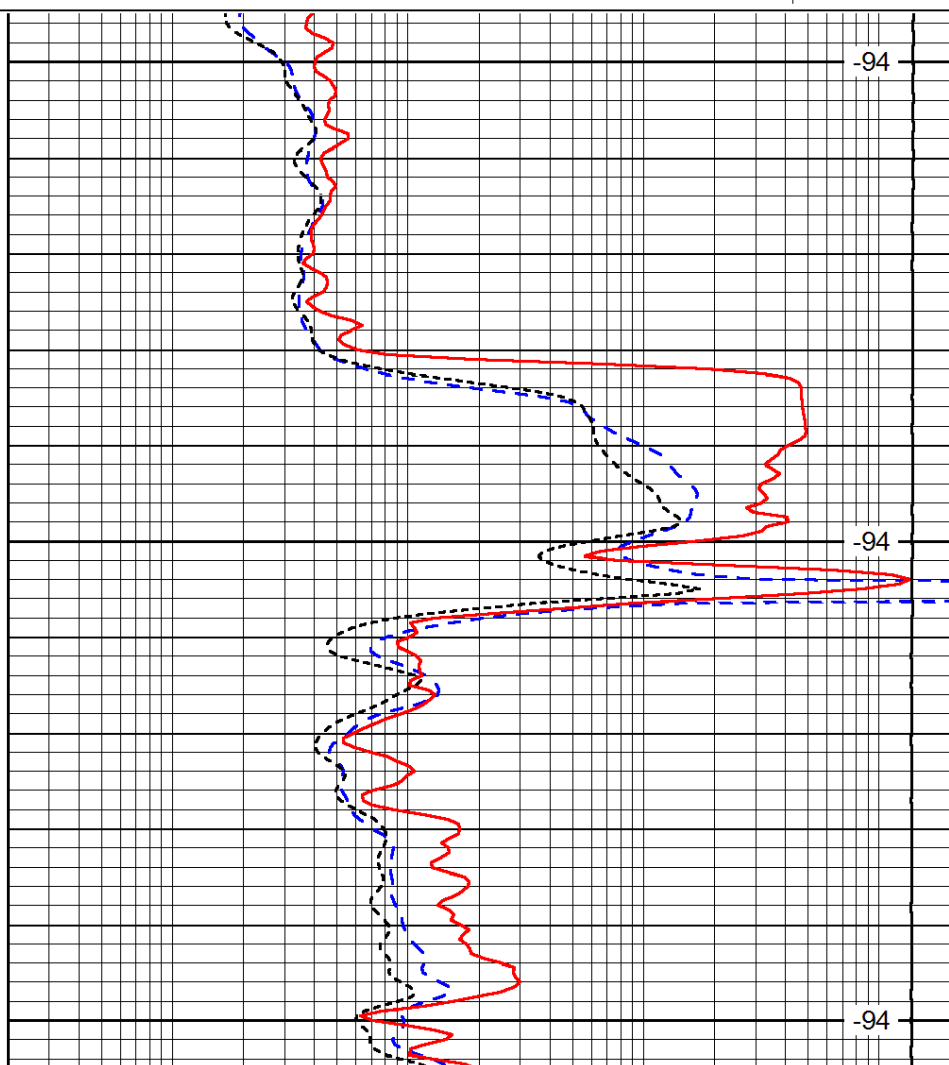
LSPD



650

700

750



-94

-94

-94

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

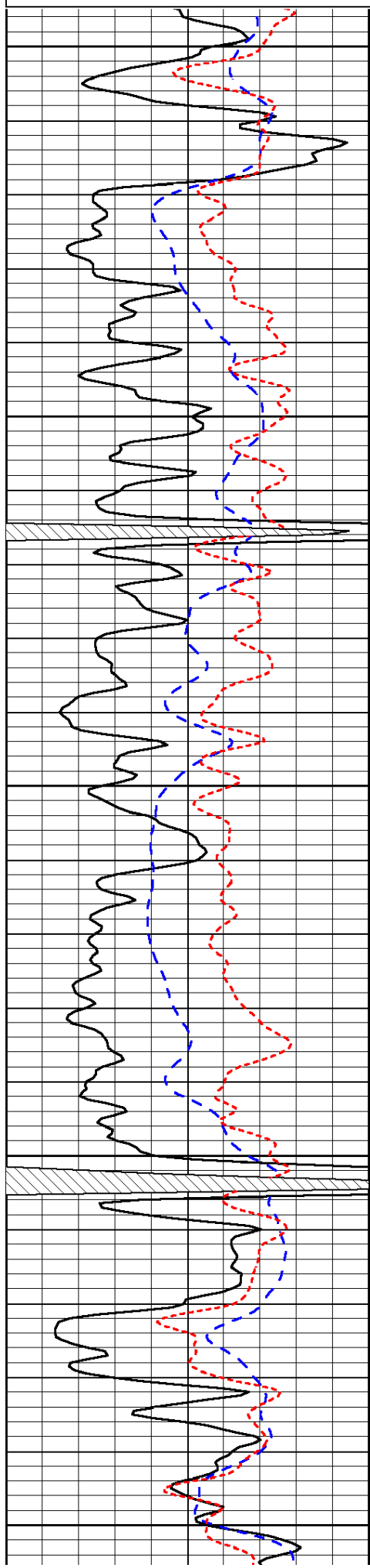
0.2	Deep Resistivity	2000
0.2	Medium Resistivity	2000
0.2	Shallow Resistivity	2000
15000	Line Tension	0

LSPD

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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



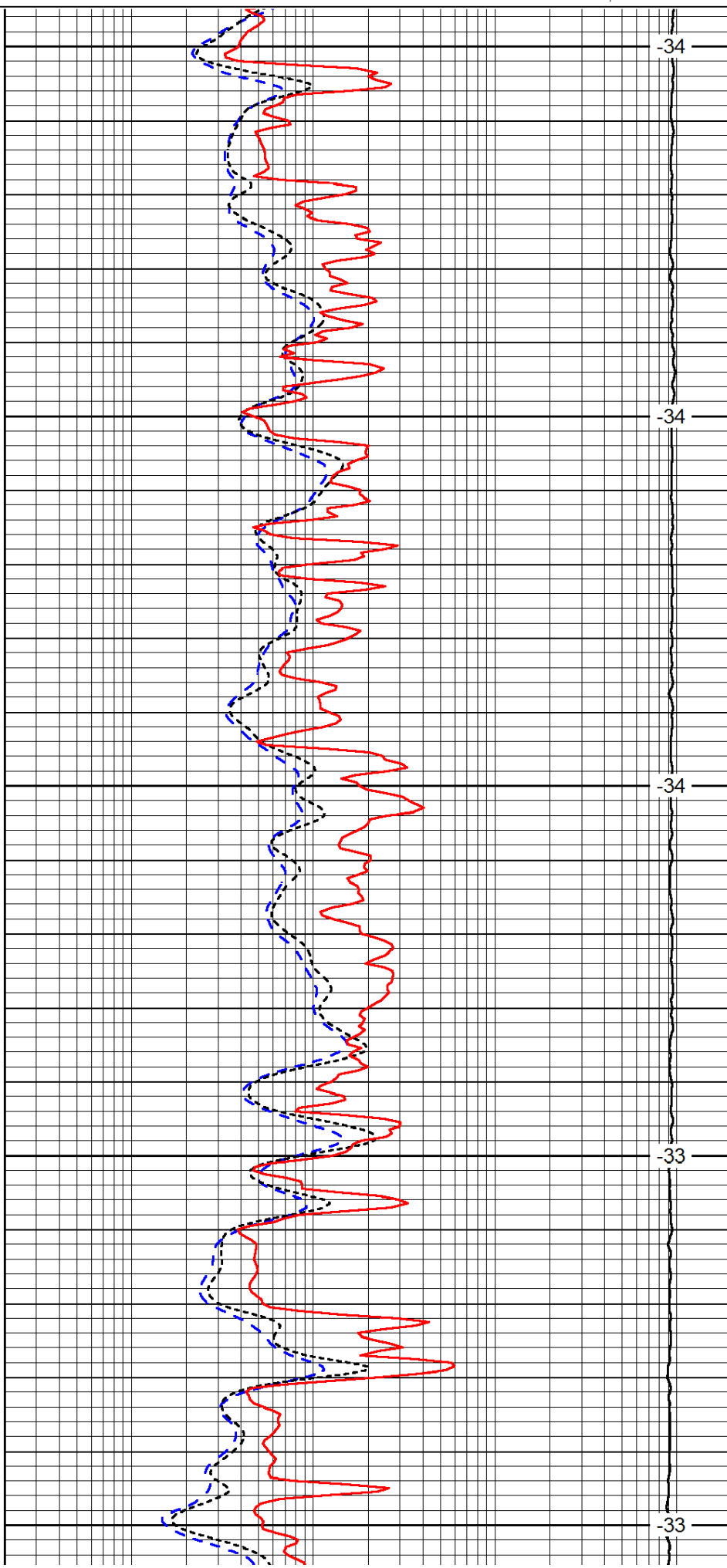
2750

2800

2850

2900

2950



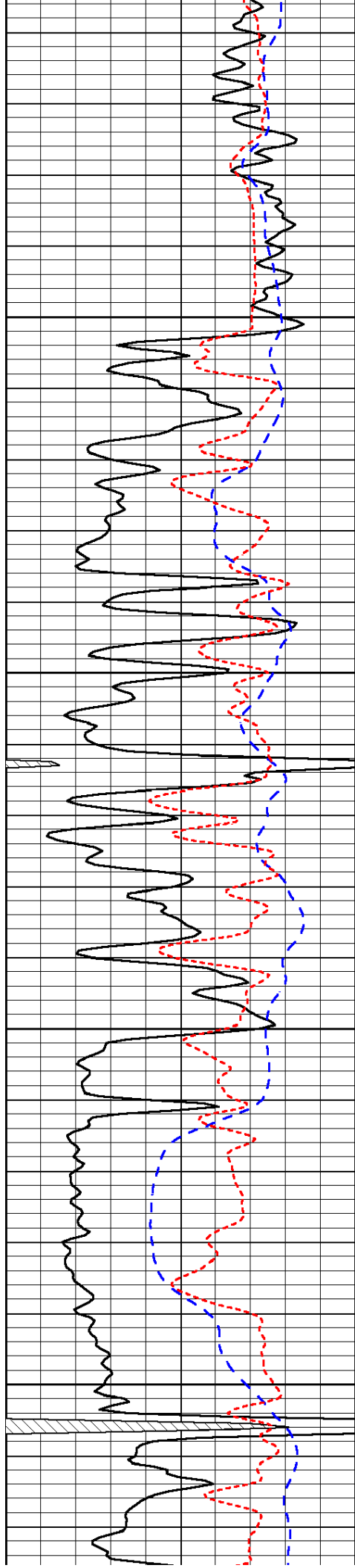
-34

-34

-34

-33

-33

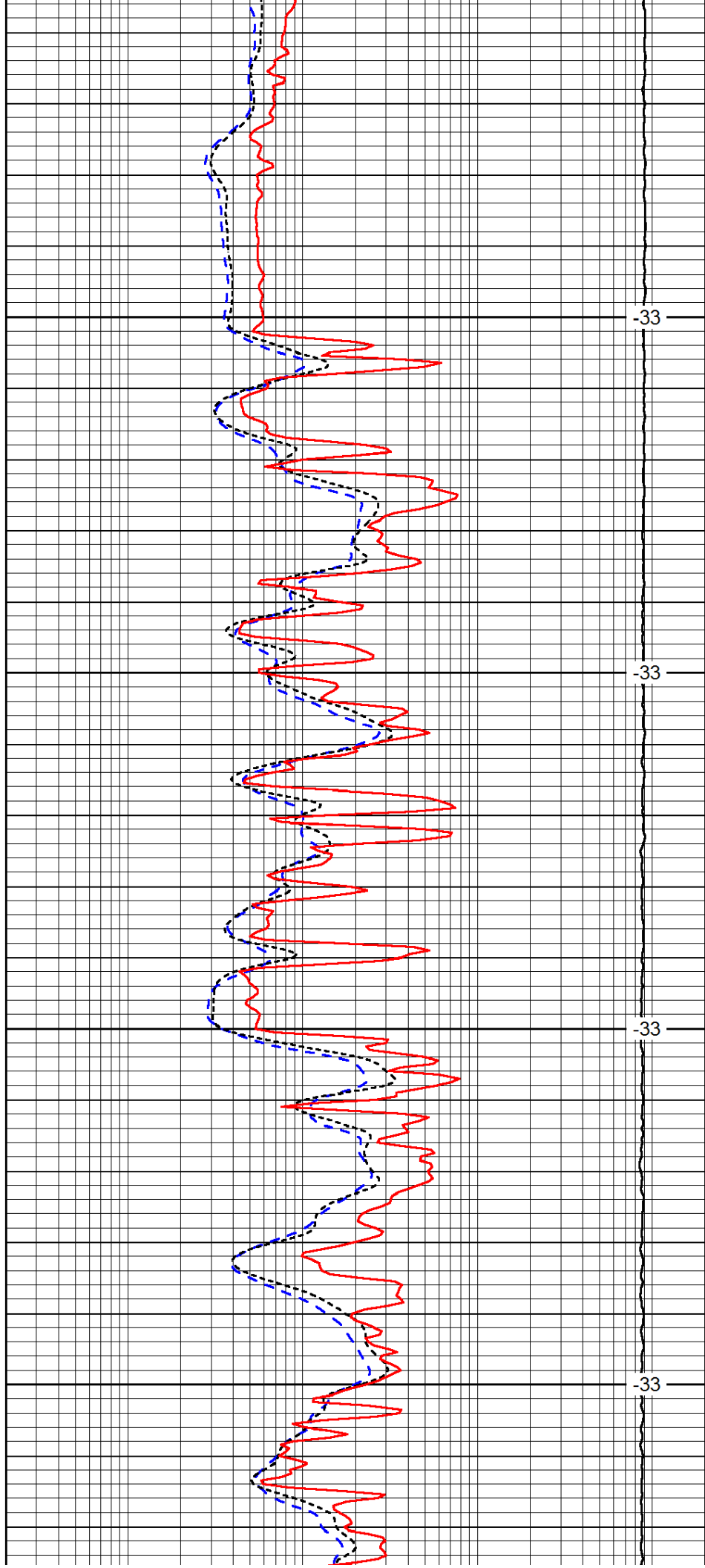


3000

3050

3100

3150

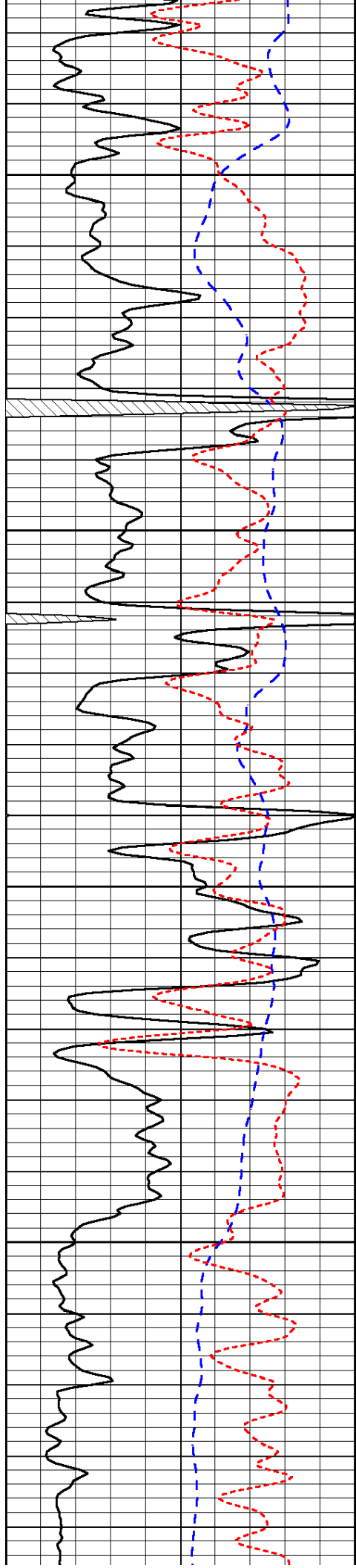


-33

-33

-33

-33

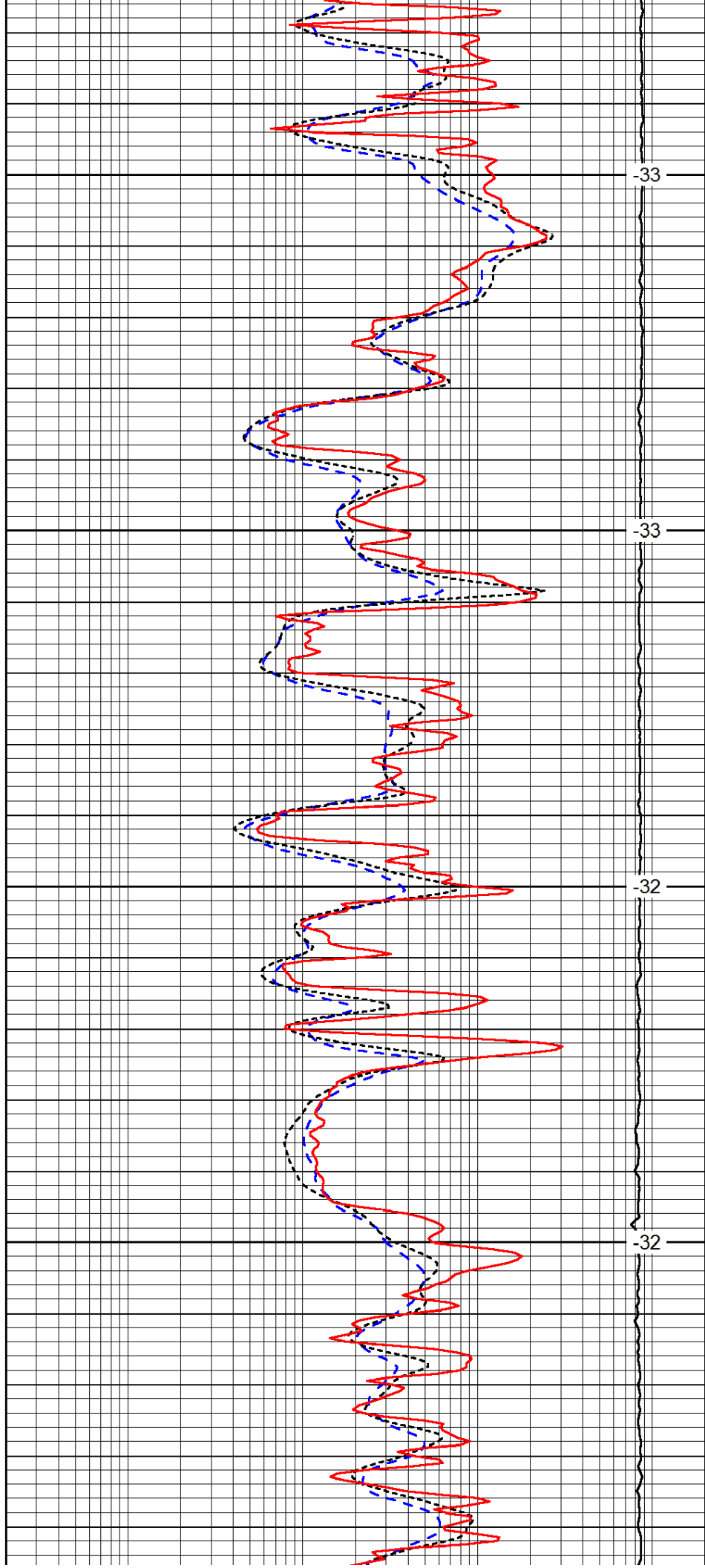


3200

3250

3300

3350



-33

-33

-32

-32

