



Dual Induction Log

Pioneer Energy Services

API No.

15-167-23,917-00-00

Company Prospect Oil & Gas, Inc.
Well Saline Breaks Ranch #3
Field Russell Northeast
County Russell State Kansas

Location

330' FSL & 1207' FEL

Sec: 14

Twp: 13S

Rge: 14W

Other Services
CNL/CDL
MEL

Elevation

Permanent Datum Ground Level Elevation 1814
Log Measured From Kelly Bushing 5 Ft. Above Perm. Datum
Drilling Measured From Kelly Bushing

K.B. 1819
D.F.
G.L. 1814

Date

11/3/2013

Run Number

One

Depth Driller

3360

Depth Logger

3361

Bottom Logged Interval

3360

Top Log Interval

200

Casing Driller

8.625 @ 218

Casing Logger

217

Bit Size

7.875

Type Fluid in Hole

Chemical

Salinity, ppm CL

4200

Density / Viscosity

9.2 48

pH / Fluid Loss

10.0 7.8

Source of Sample

Flowline

Rm @ Meas. Temp

0.42 @ 63

Rmf @ Meas. Temp

0.32 @ 63

Rmc @ Meas. Temp

0.57 @ 63

Source of Rmf / Rmc

Charts

Rm @ BHT

0.24 @ 110

Operating Rig Time

3 1/2 Hours

Max Rec. Temp. F

110

Equipment Number

15

Location

Hays

Recorded By

D. Kerr

Witnessed By

Brad Hutchison

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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

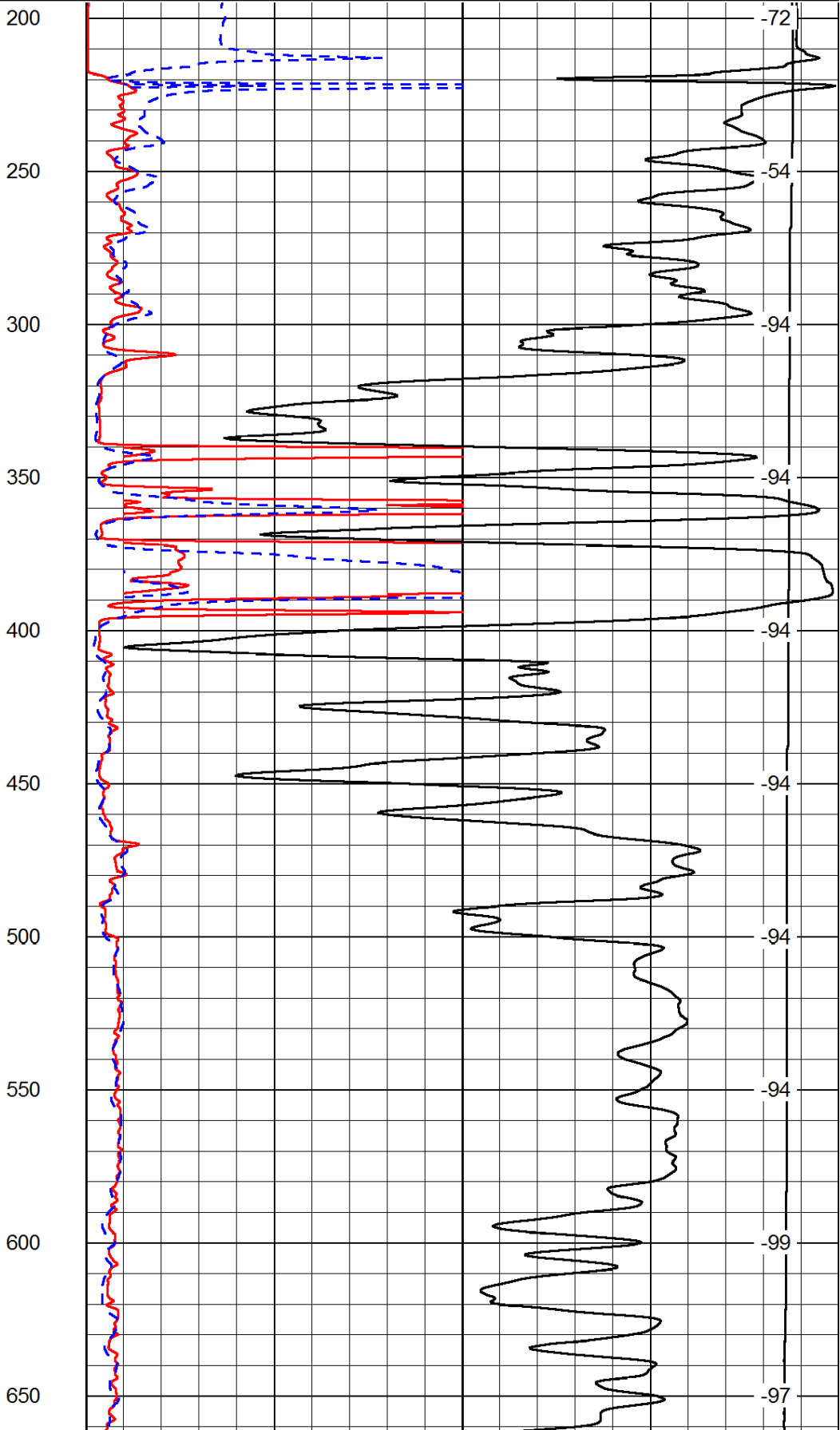
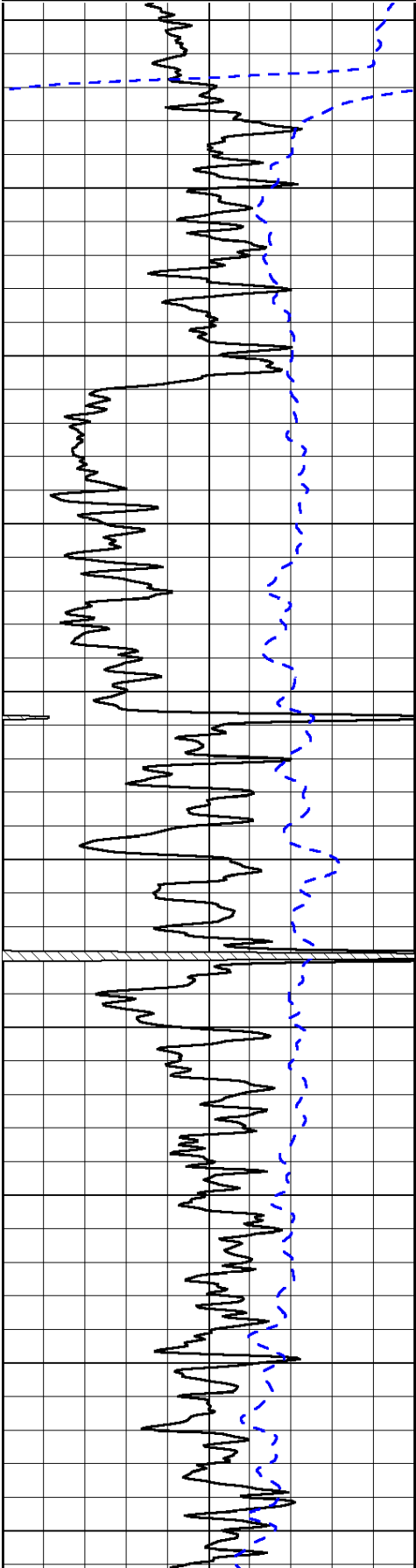
Russell KS, 1 North to Shoreline RD,
East to Gates, 1/2 East Into

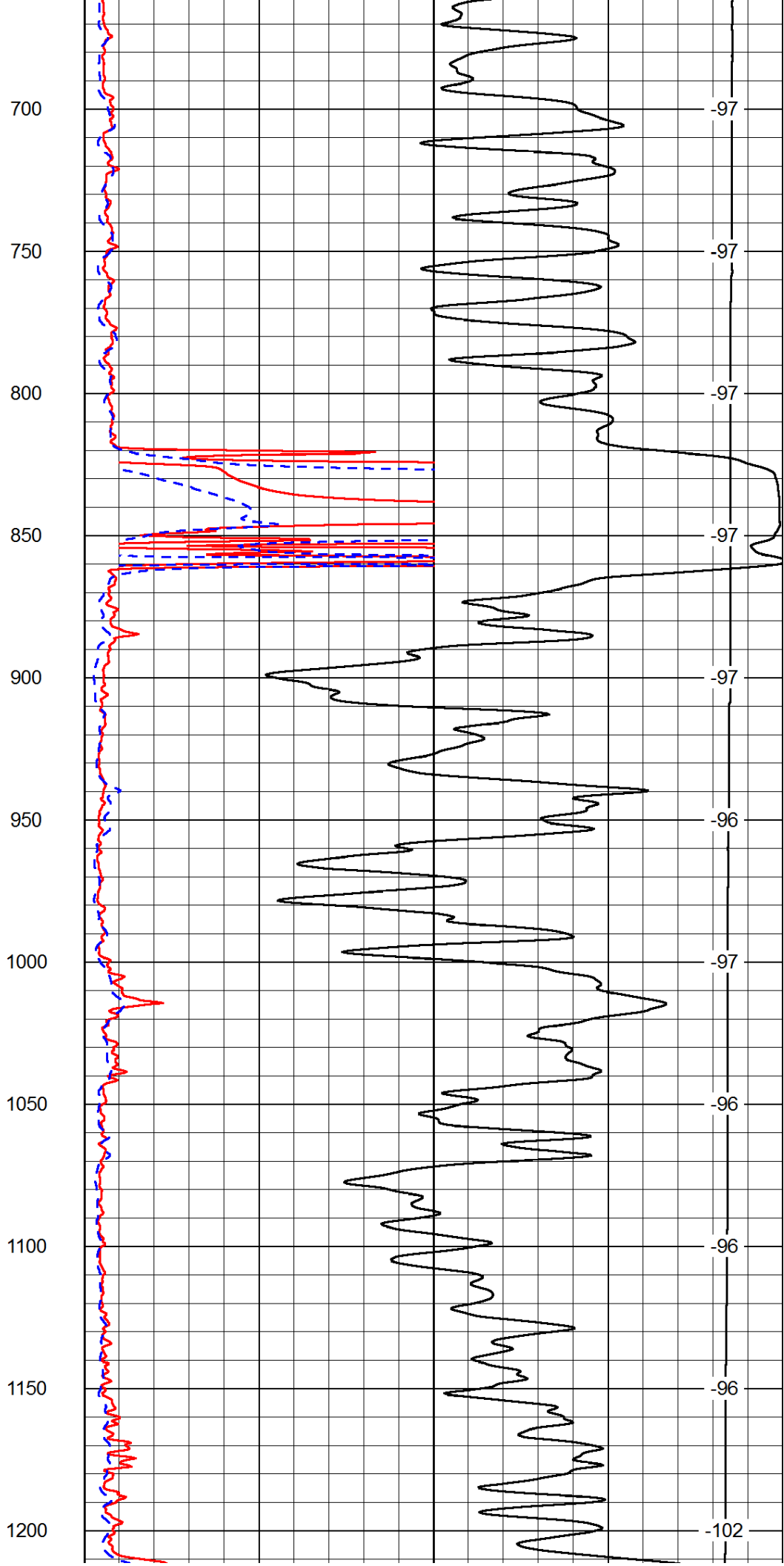
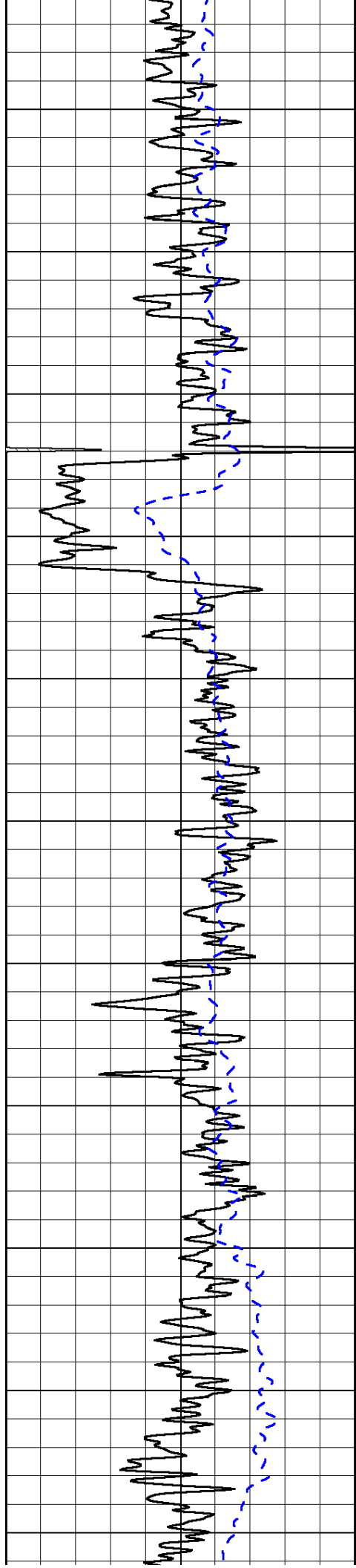
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Dataset Pathname: DIL\prostk
Presentation Format: dil2in
Dataset Creation: Sun Nov 03 20:24:48 2013
Charted by: Depth in Feet scaled 1:600

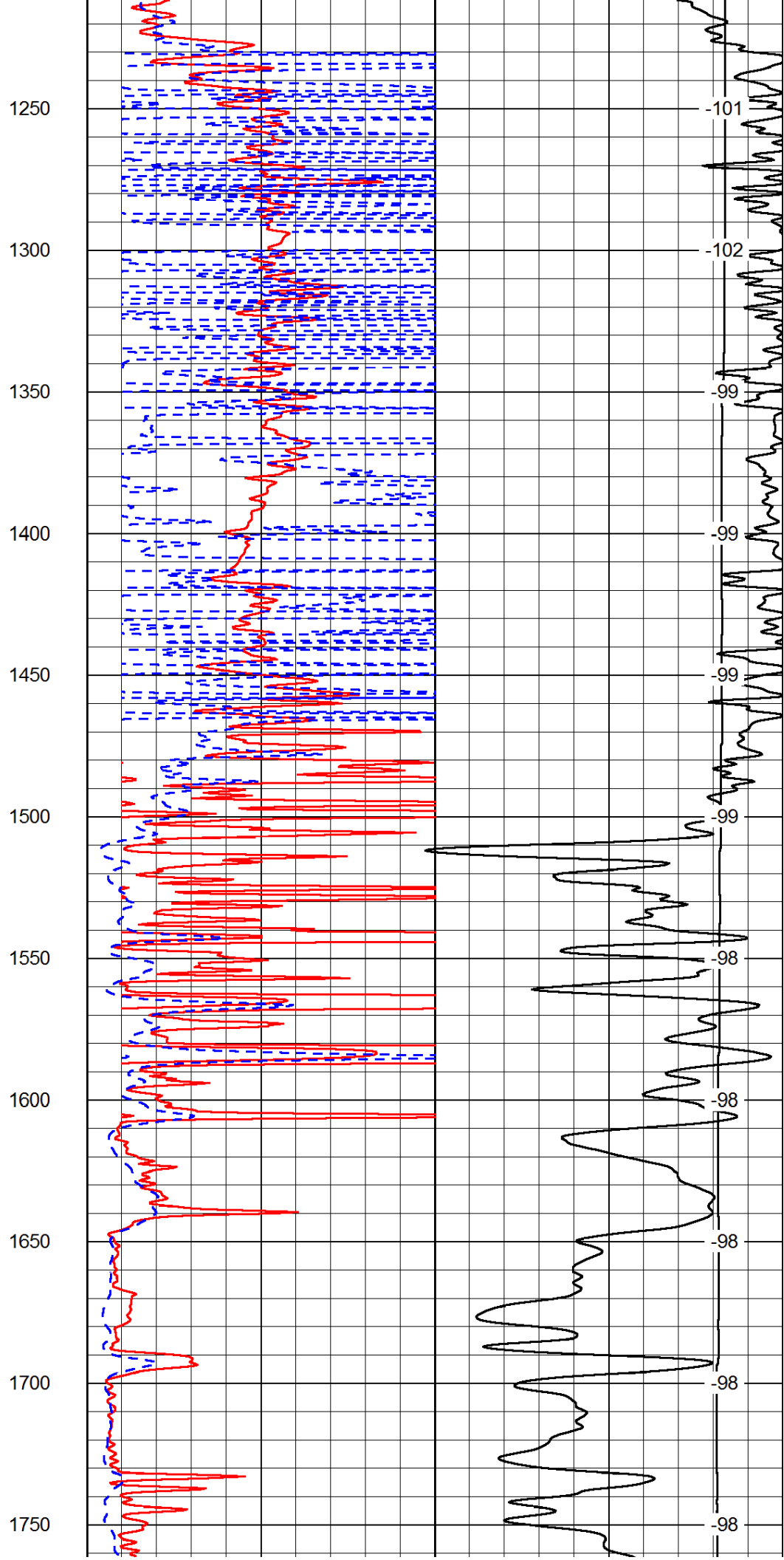
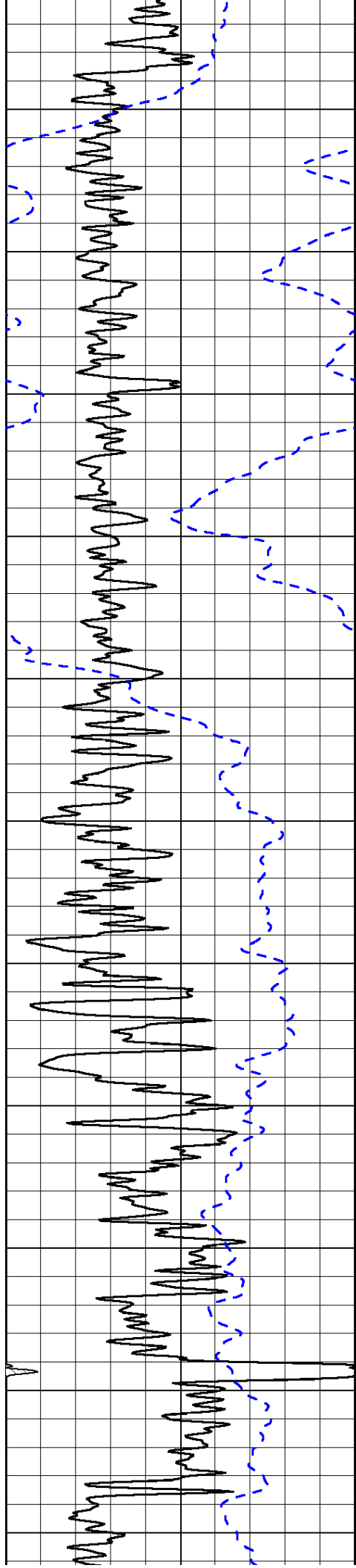
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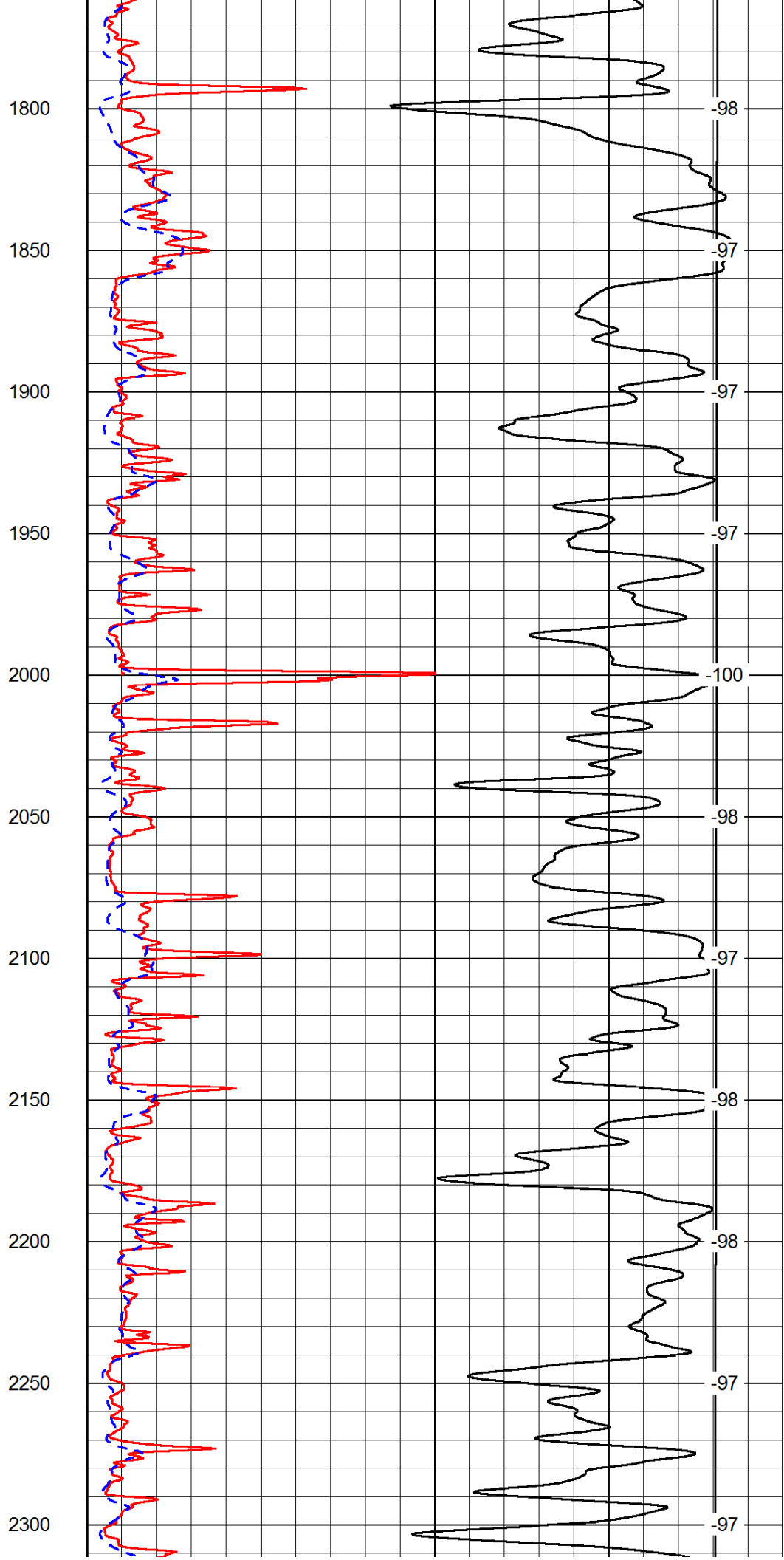
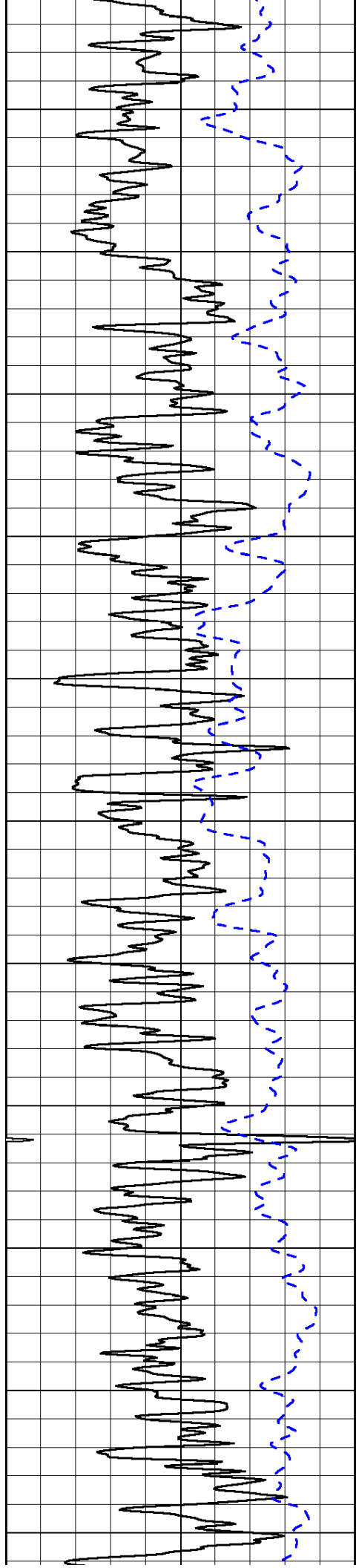
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-200	SP (mV)	0

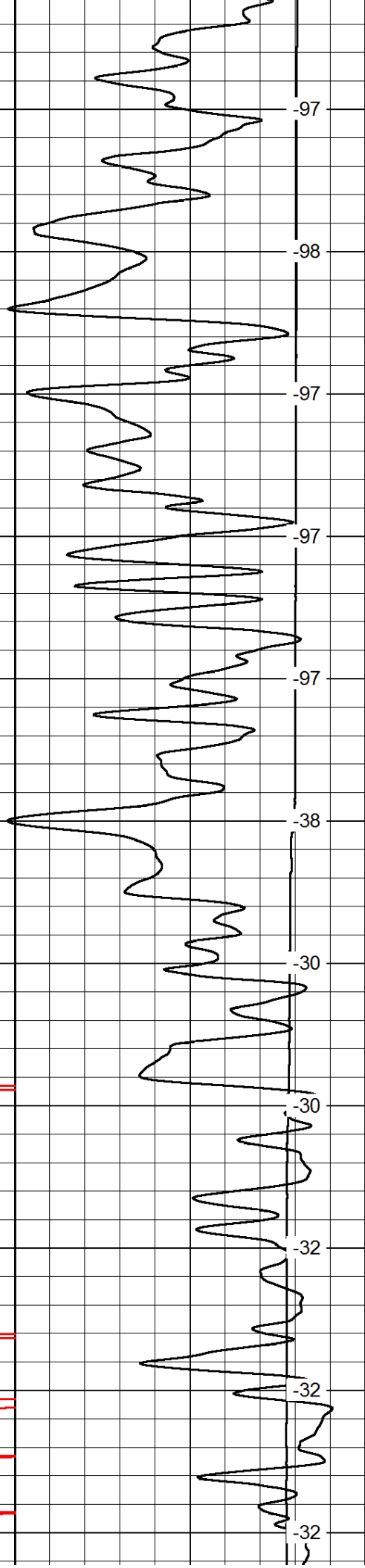
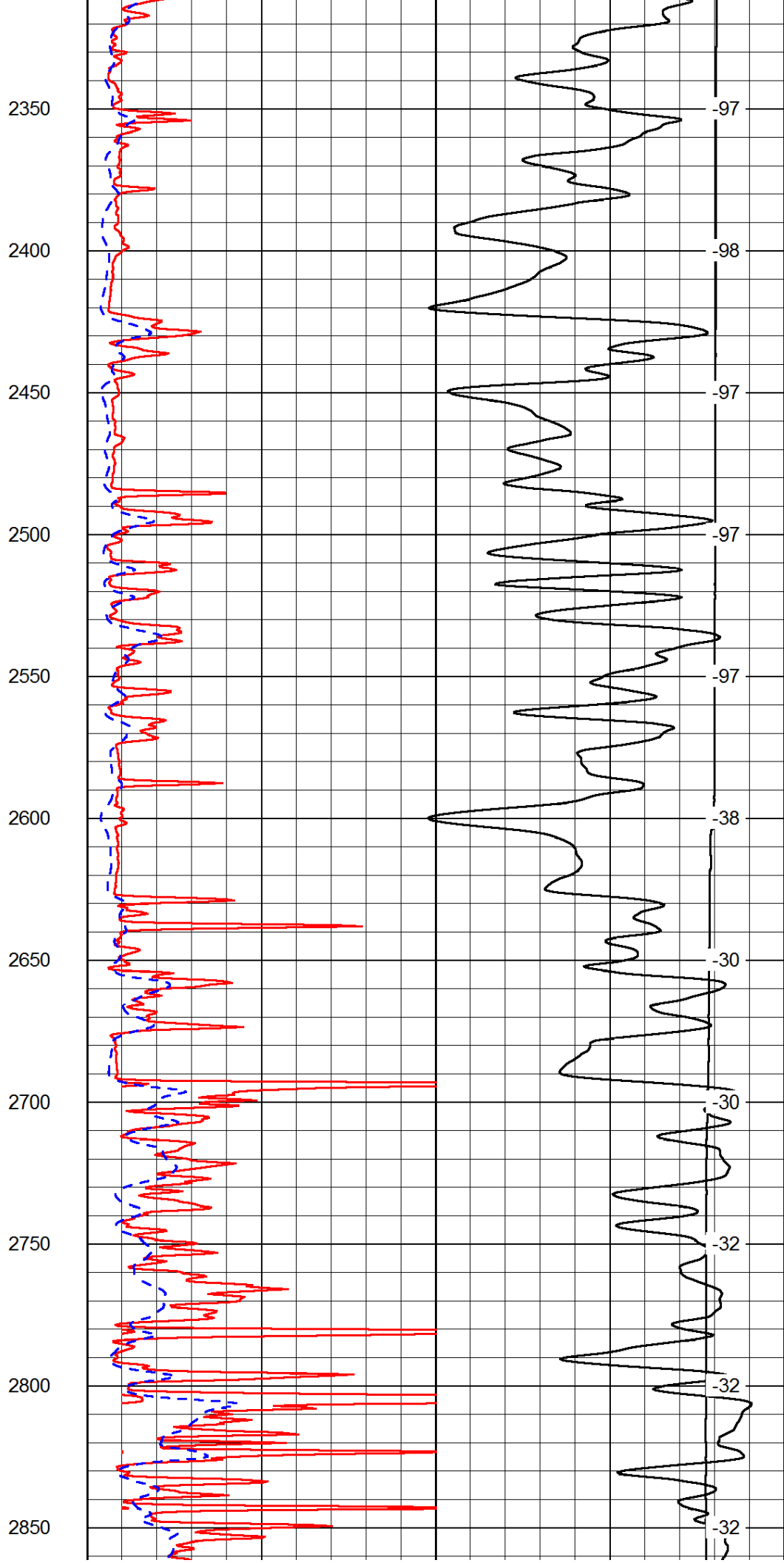
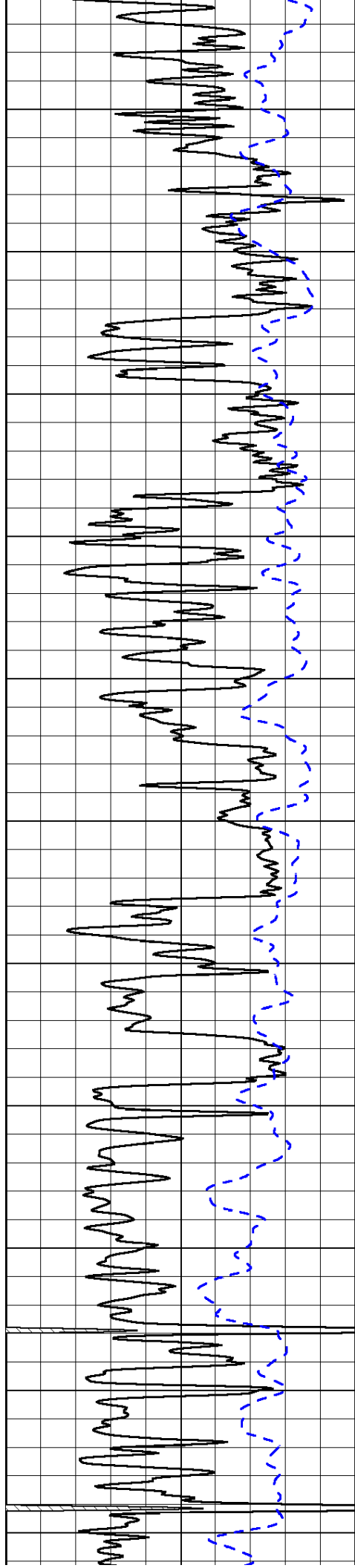
0 Shallow Resistivity 50			LSPD
0 Deep Resistivity 50			
1000 Conductivity			0
15000 Line Tension			0
50	Shallow Resistivity	500	
50	Deep Resistivity	500	

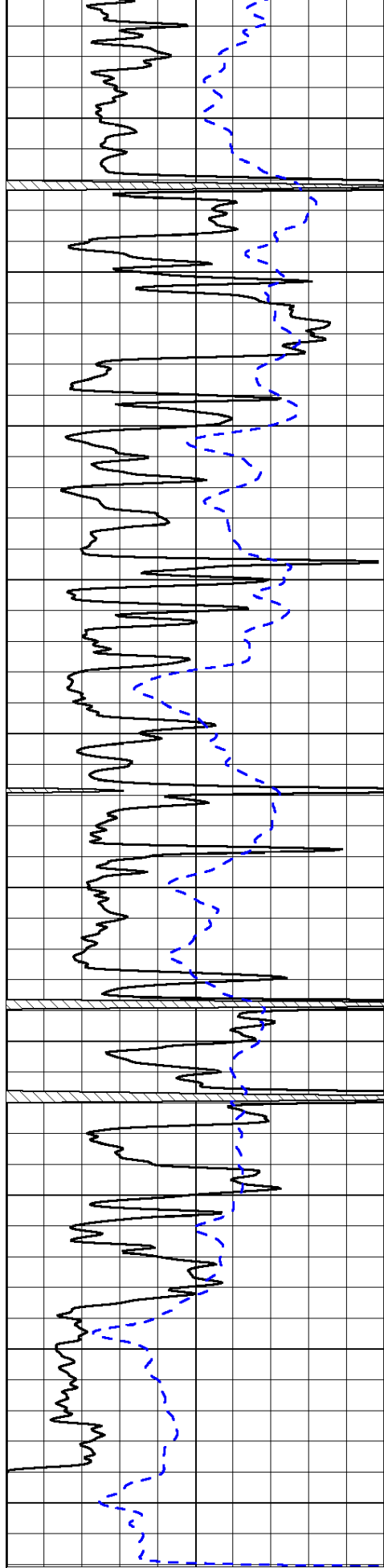




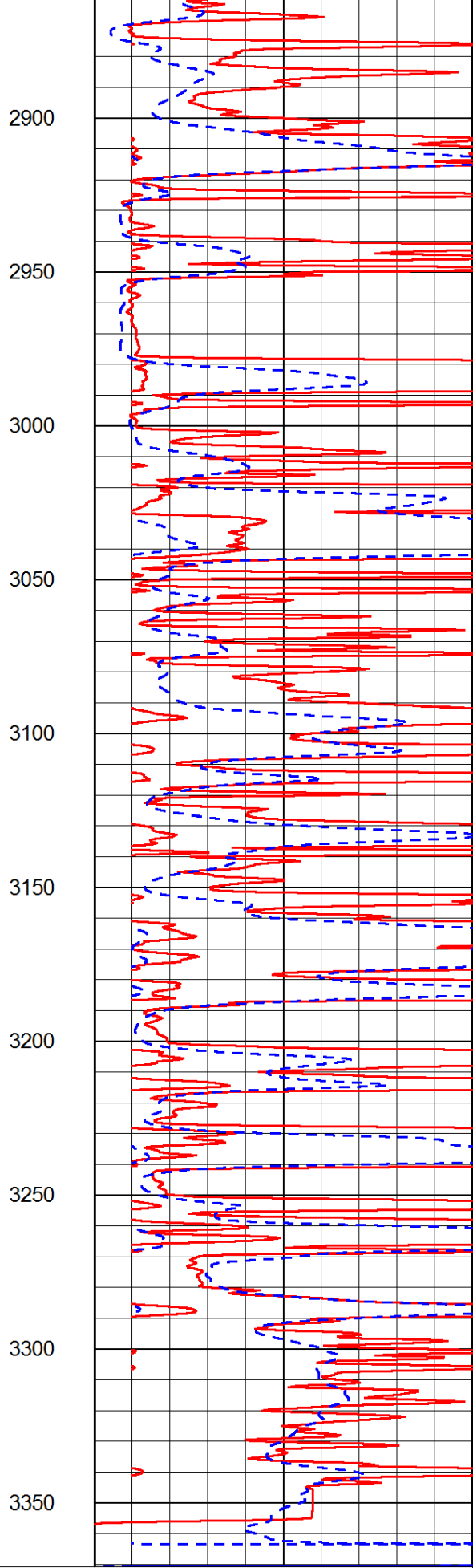




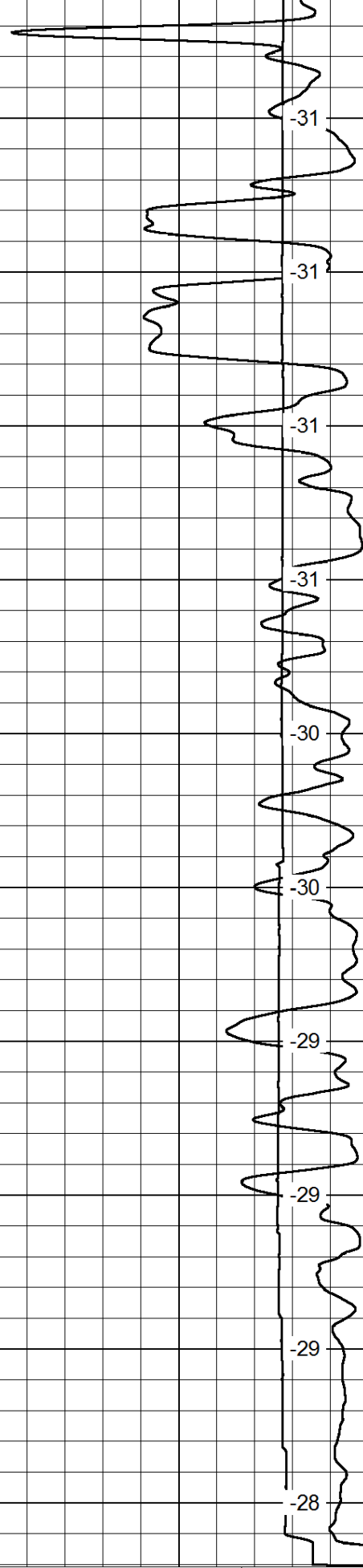




0 Gamma Ray 150
-200 SP (mV) 0



0 Shallow Resistivity 50
0 Deep Resistivity 50



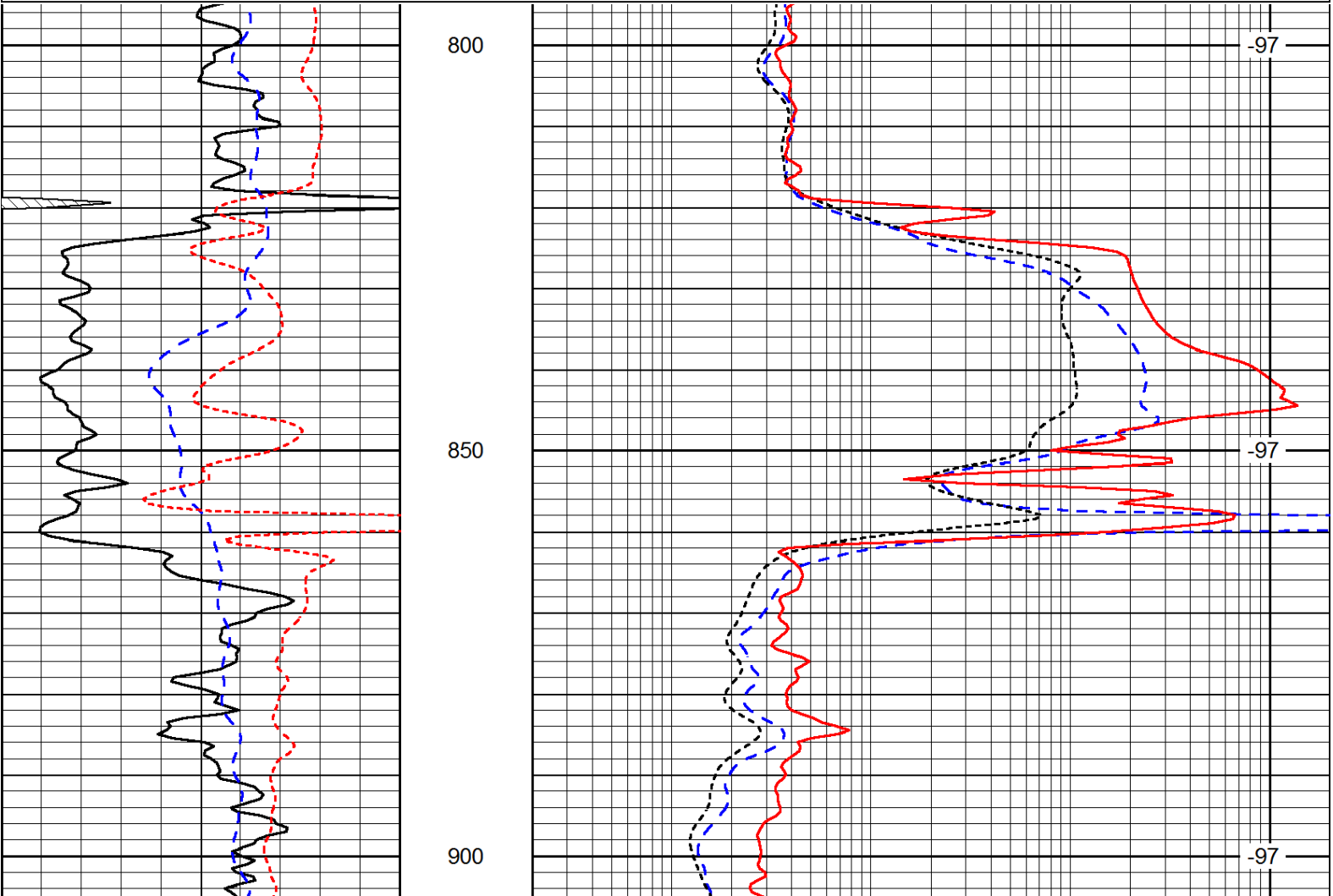
LSPD
-31
-31
-31
-31
-31
-30
-30
-29
-29
-29
-28

1000 Conductivity 0
45000 Line Tension 0

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

Database File:	c:\warrior\data\prospect_saline breaks ranch #3\prospect_salinebreaks_3hd.db				
Dataset Pathname:	DIL/prostk				
Presentation Format:	dil				
Dataset Creation:	Sun Nov 03 20:24:48 2013				
Charted by:	Depth in Feet scaled 1:240				

0	Gamma Ray	150	0.2	Deep Resistivity	2000
-200	SP (mV)	0	0.2	Medium Resistivity	2000
-160	RxoRt	40	0.2	Shallow Resistivity	2000
			15000	Line Tension	0
					LSPD



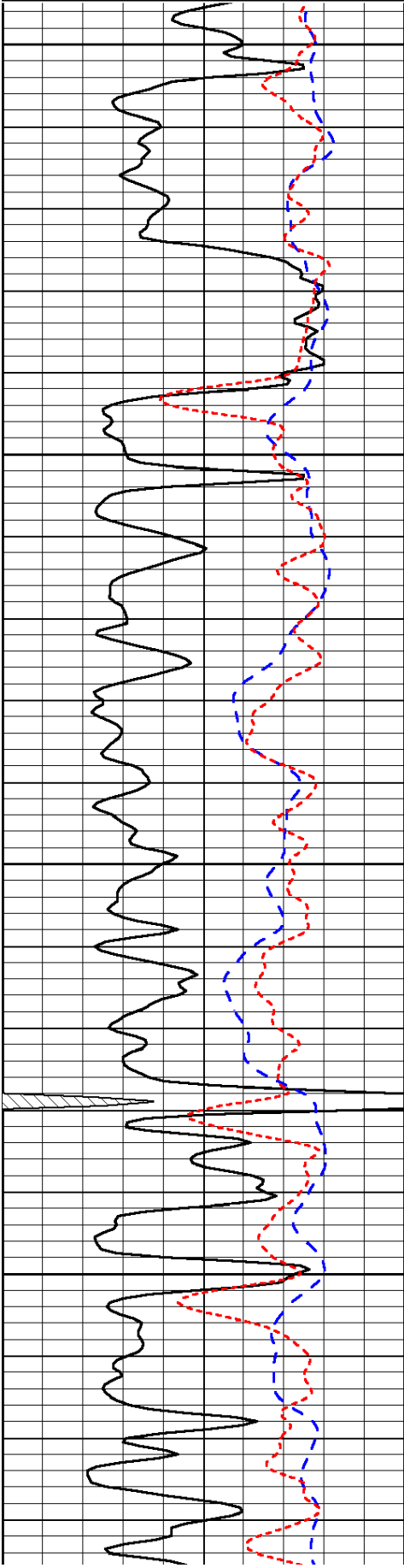
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-200	SP (mV)	0	0.2	Medium Resistivity	2000
-160	RxoRt	40	0.2	Shallow Resistivity	2000
			15000	Line Tension	0
					LSPD

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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
15000	Line Tension	0

LSPD

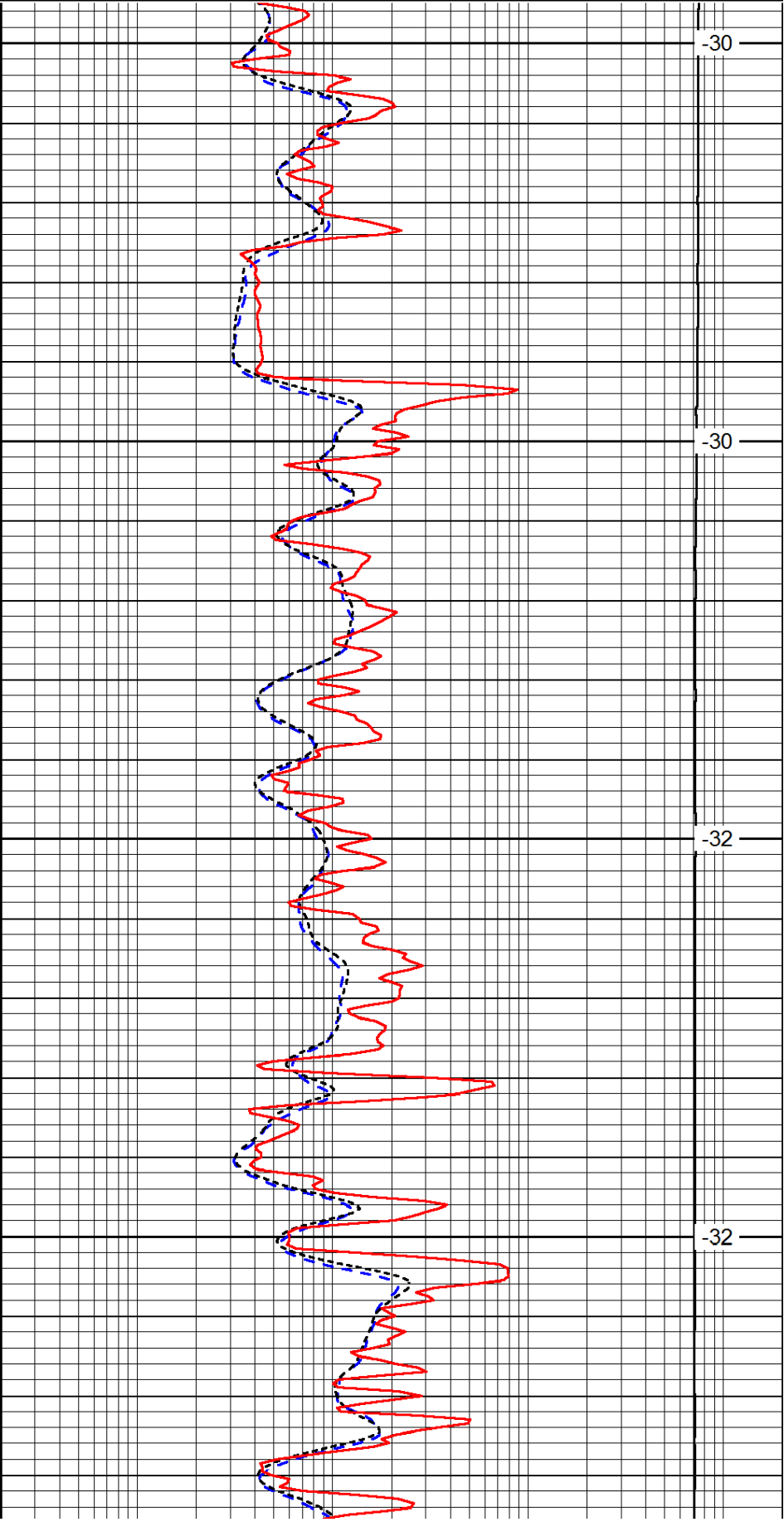


2650

2700

2750

2800

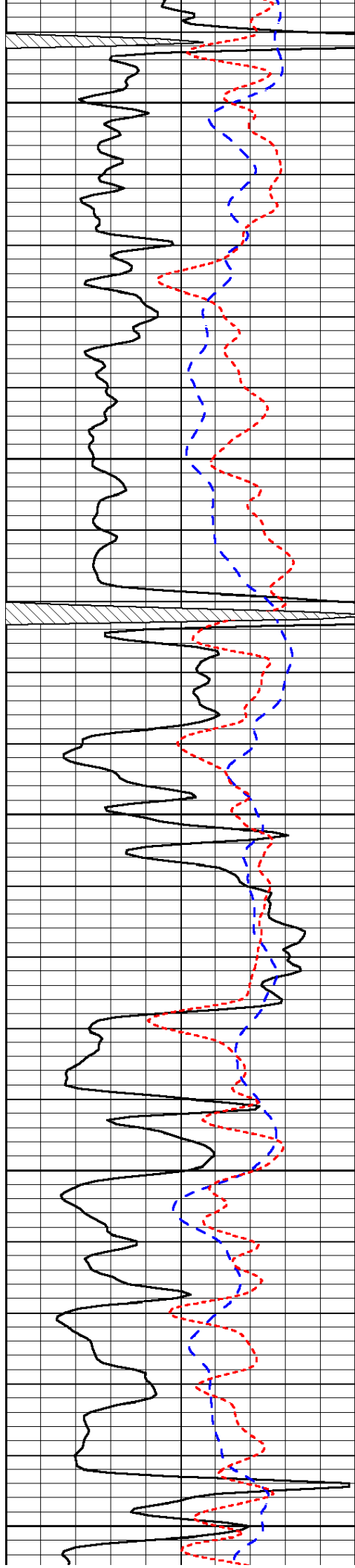


-30

-30

-32

-32



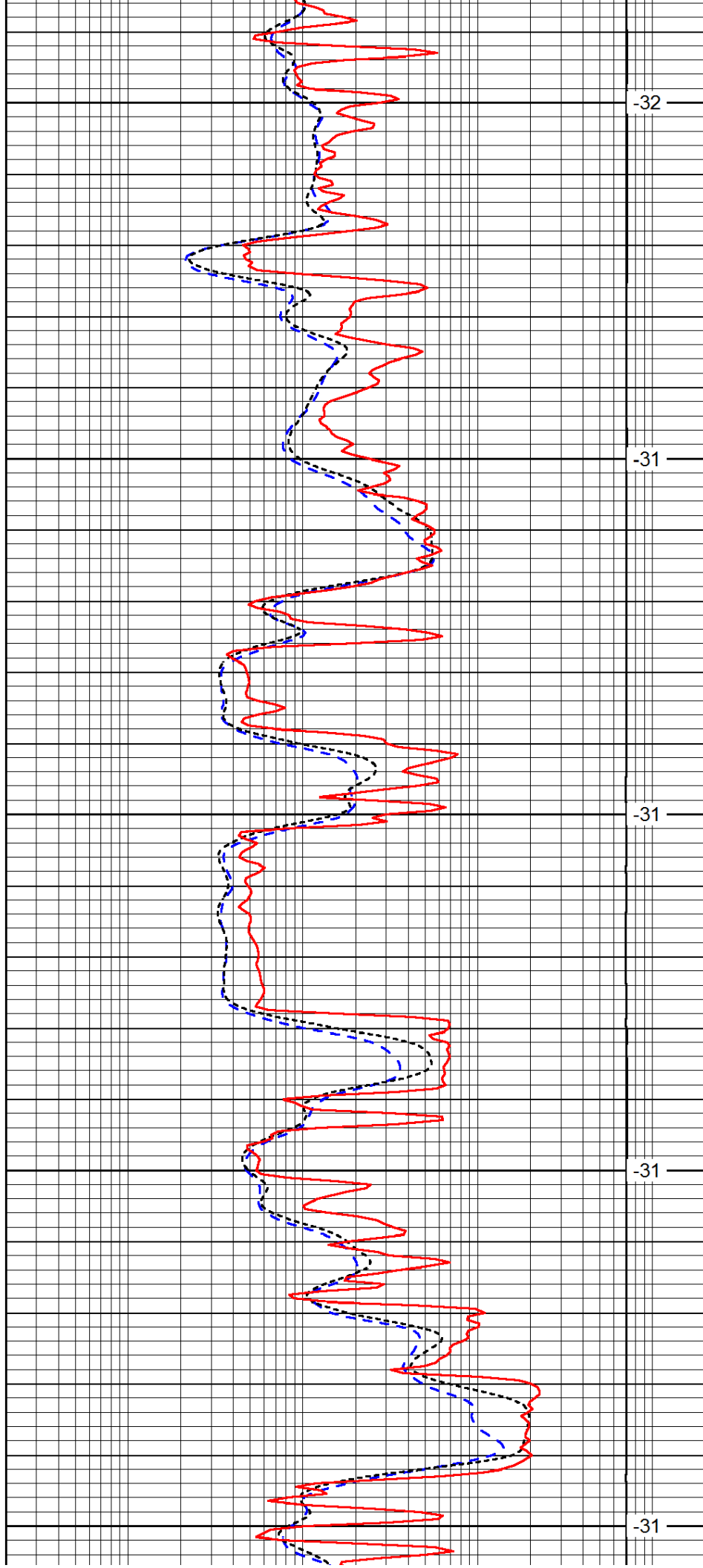
2850

2900

2950

3000

3050



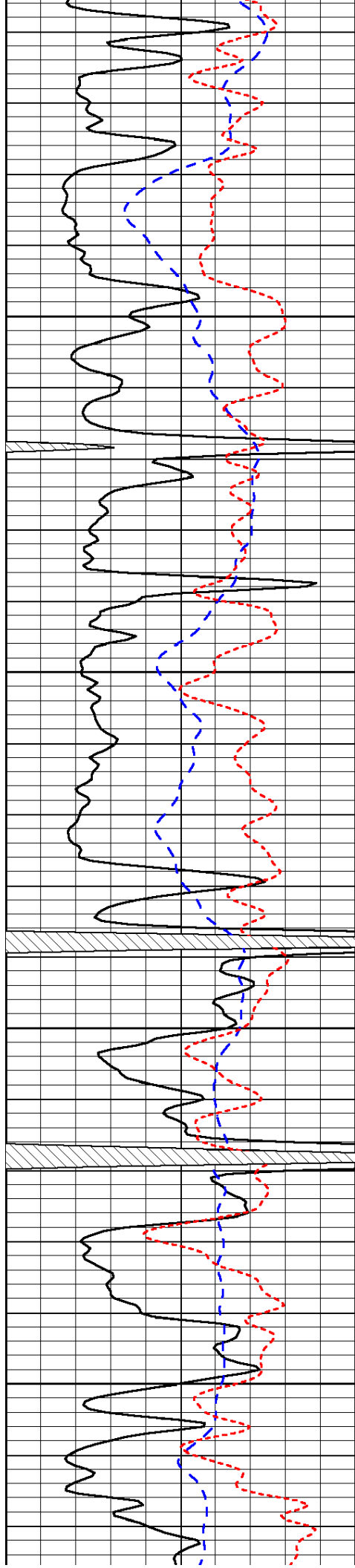
-32

-31

-31

-31

-31

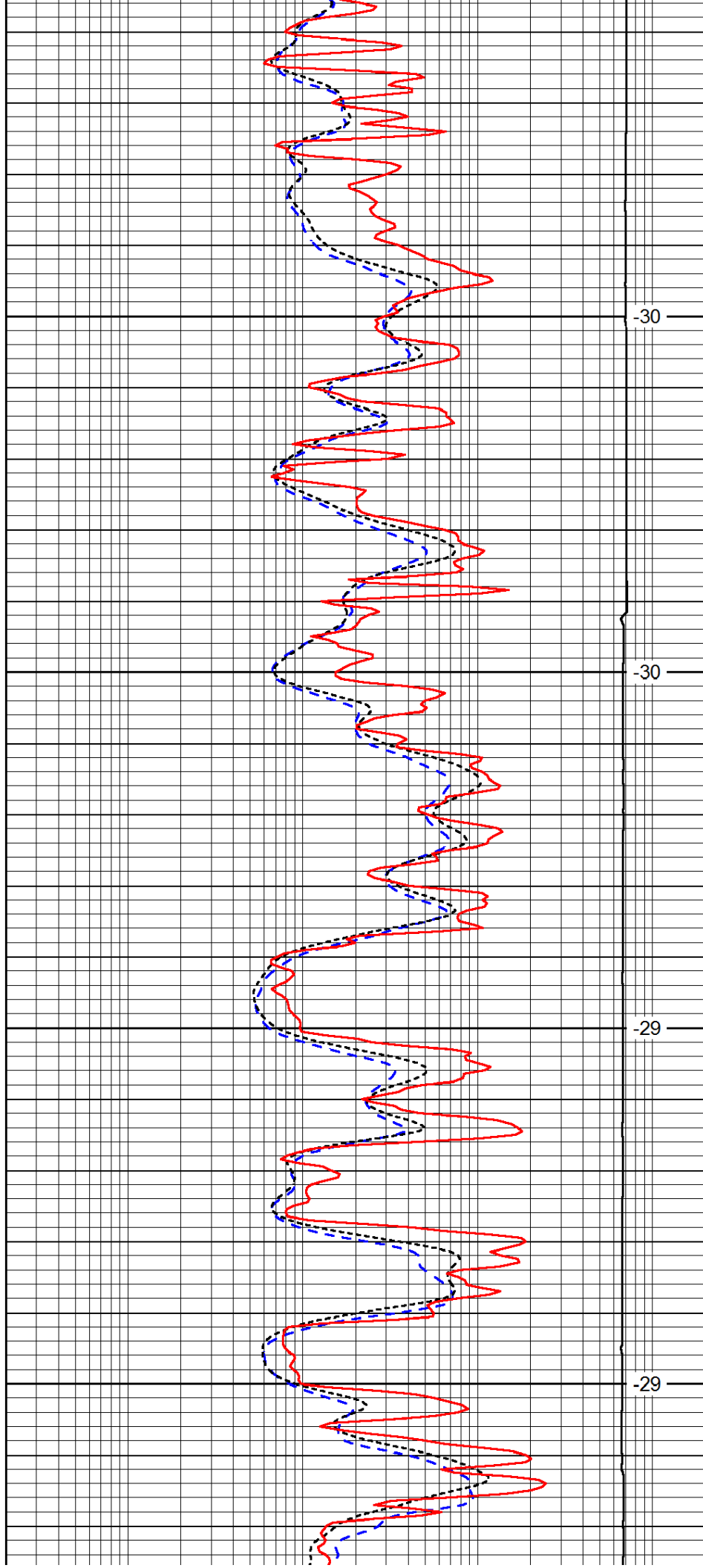


3100

3150

3200

3250

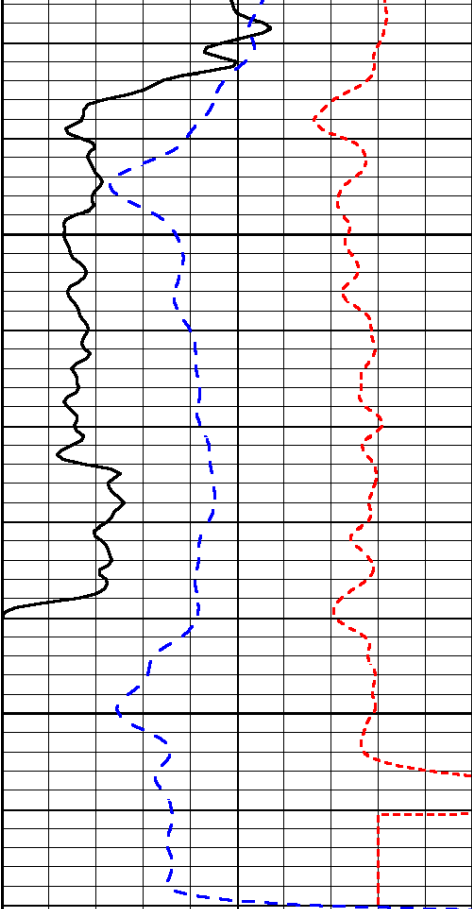


-30

-30

-29

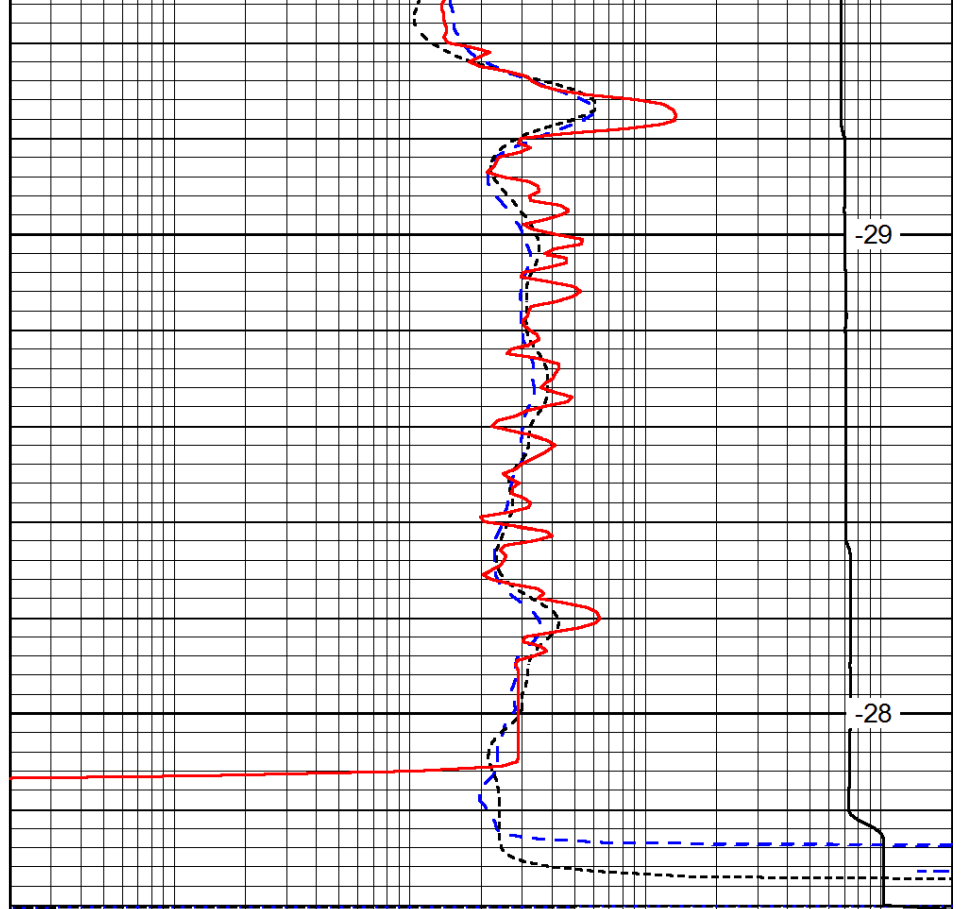
-29



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

3300

3350



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

-29

-28

LSPD