



Pioneer Energy Services

Dual Induction Log

API No.

15-065-24,062-00-00

Company H&C Oil Operating, Inc.

Well Paxson-Rice Unit No.26-1

Field Wildcat

County Graham

State

Kansas

Location

1220' FSL & 2640' FWL

Sec: 26

Twp: 7S

Rge: 24W

Elevation

Permanent Datum Ground Level Elevation 2387
Log Measured From Kelly Bushing 7 Ft. Above Perm. Datum
Drilling Measured From Kelly Bushing

K.B. 2394
D.F. 2387
G.L. 2387

Date 9/22/2014

Run Number One

Depth Driller 3935

Depth Logger 3936

Bottom Logged Interval 3935

Top Log Interval 250

Casing Driller 8.625 @ 262

Casing Logger 261

Bit Size 7.875

Type Fluid in Hole Chemical

Salinity, ppm CL 600

Density / Viscosity 9.3 53

pH / Fluid Loss 11.0 6.0

Source of Sample Flowline

Rm @ Meas. Temp 1.4 @ 68

Rmf @ Meas. Temp 1.05 @ 68

Rmc @ Meas. Temp 1.89 @ 68

Source of Rmf / Rmc Charts

Rm @ BHT .83 @ 115

Operating Rig Time 4 Hours

Max Rec. Temp. F 115

Equipment Number 10

Location Hays

Recorded By C. Desaire

Witnessed By Marc Downing

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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

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(785) 625-3858

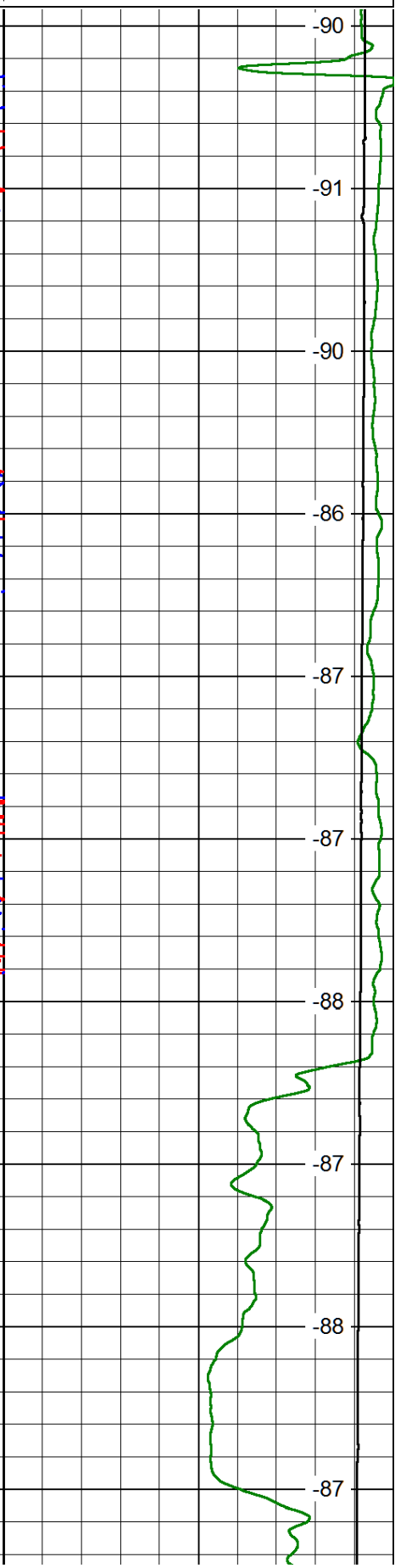
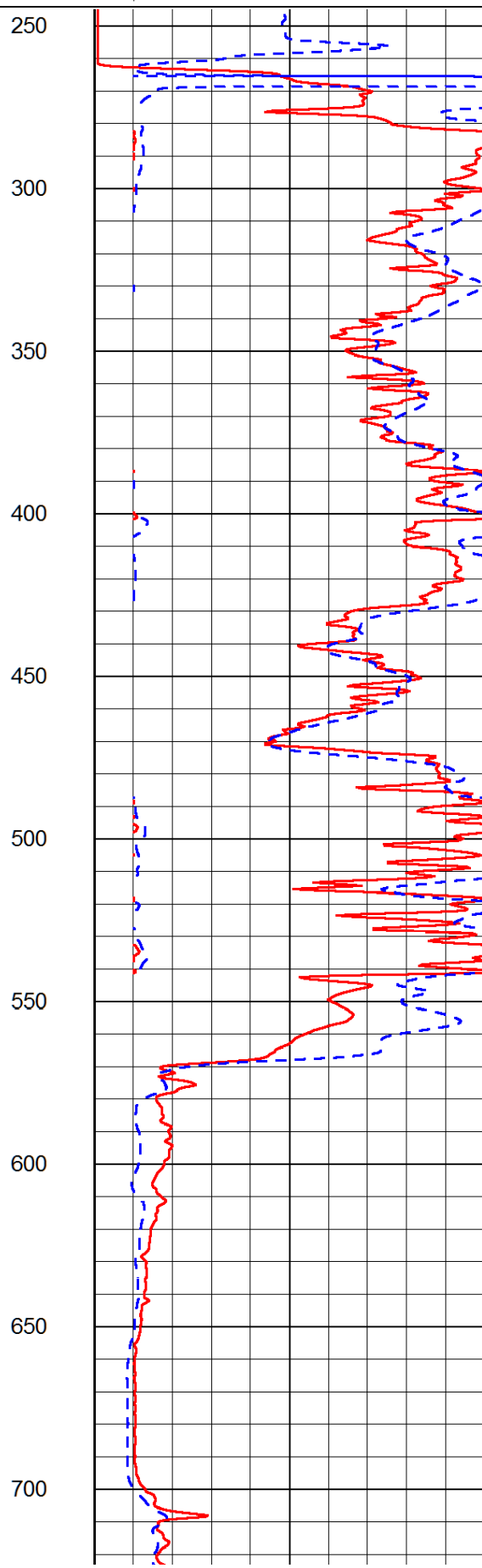
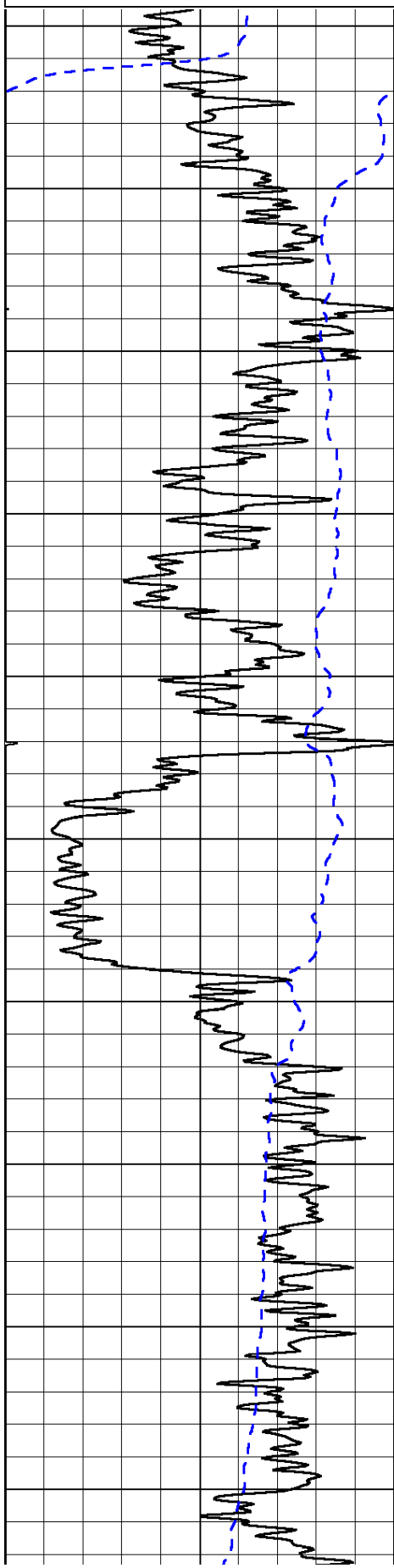
Penokee KS, 3 N on 200th to T Rd,
1/2 E, N Into thru gate

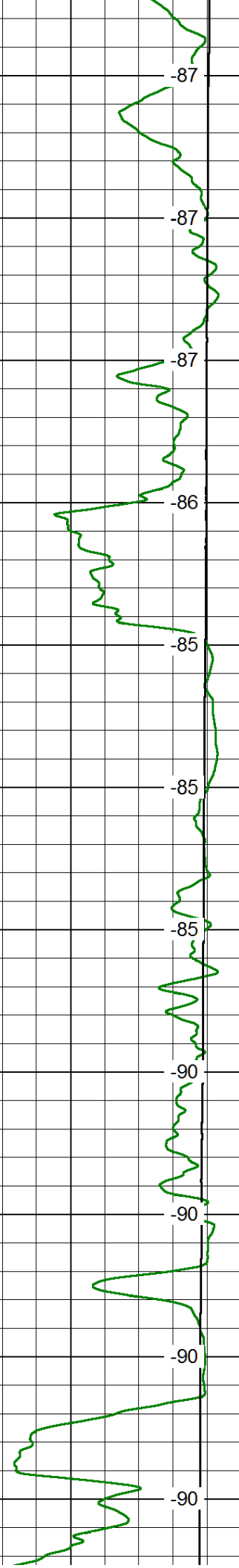
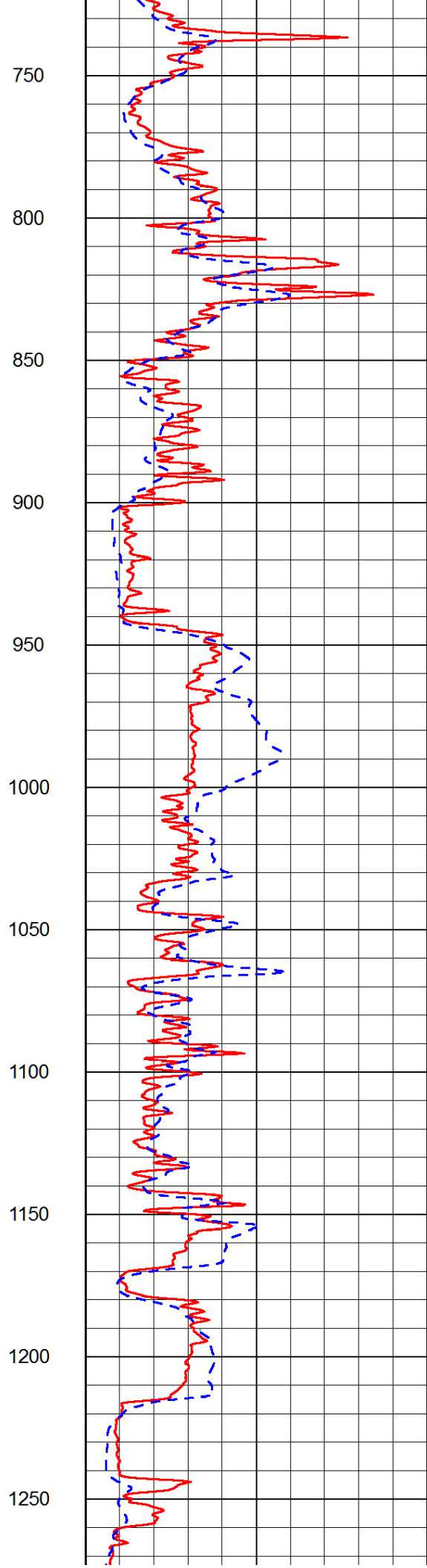
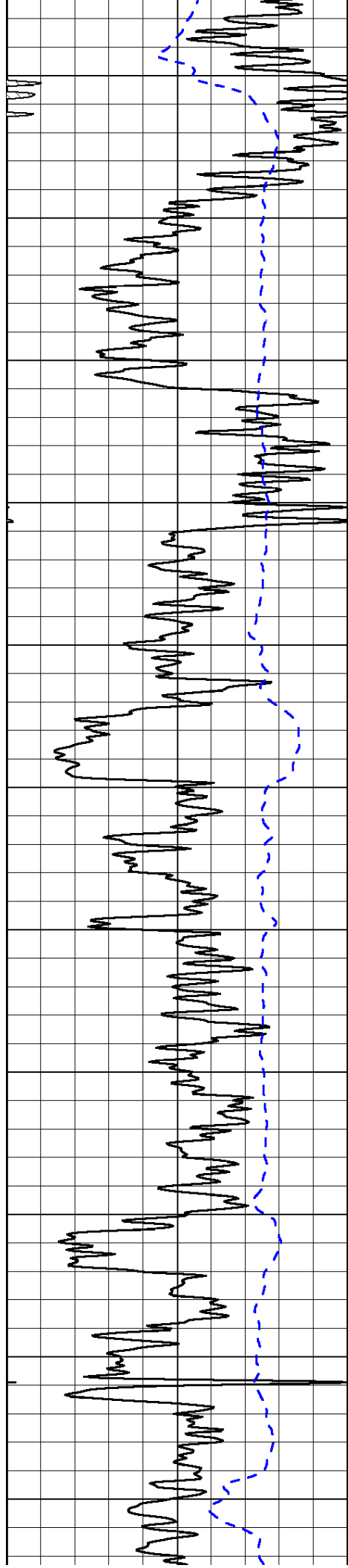
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Presentation Format: dil2in
Dataset Creation: Mon Sep 22 10:38:10 2014
Charted by: Depth in Feet scaled 1:600

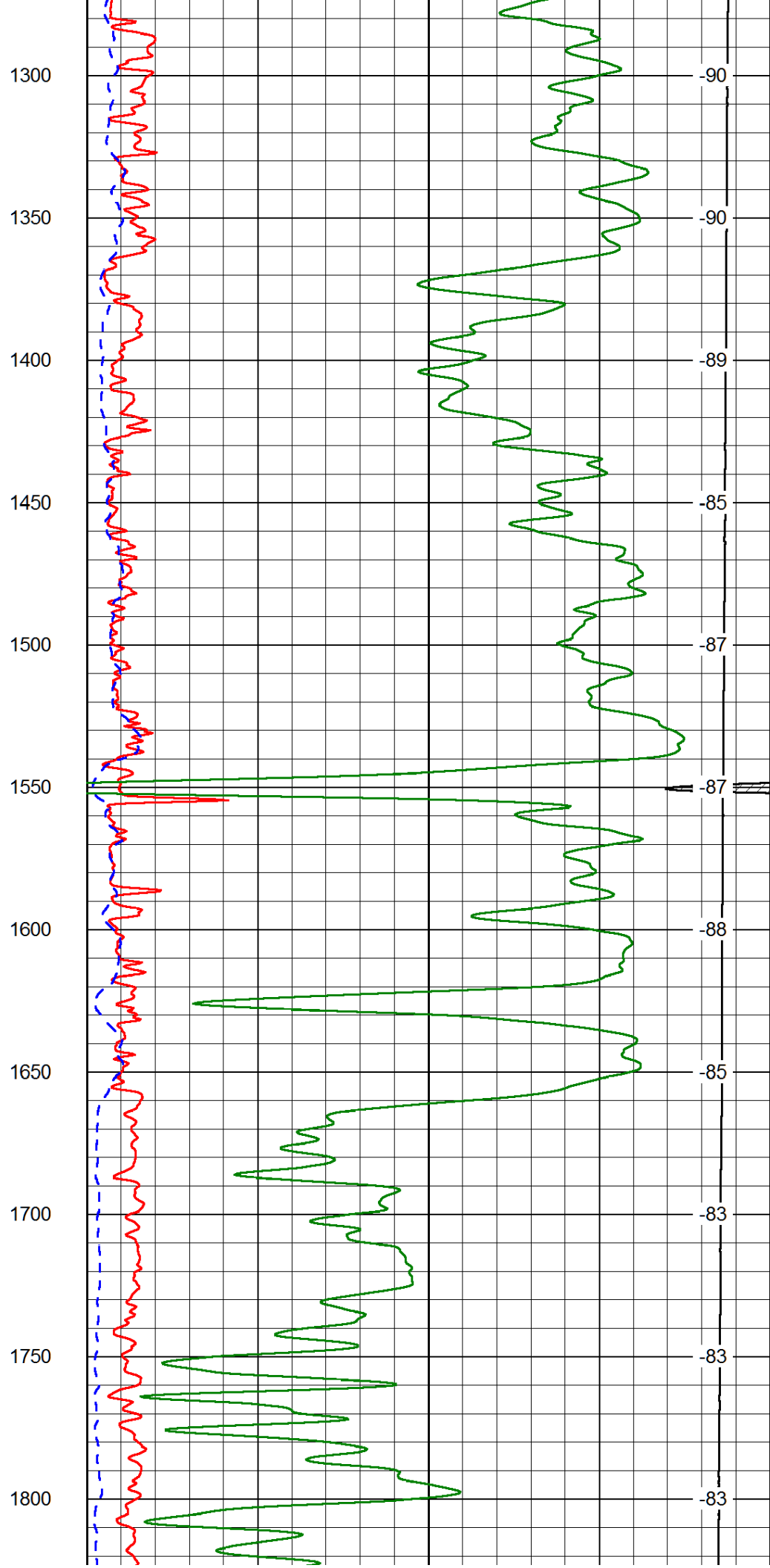
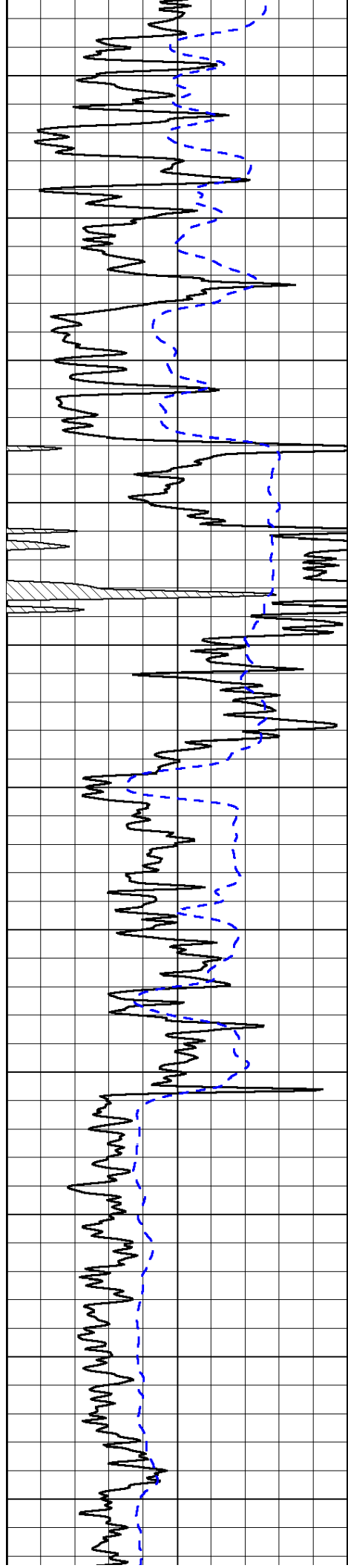
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-200	SP (mV)	0

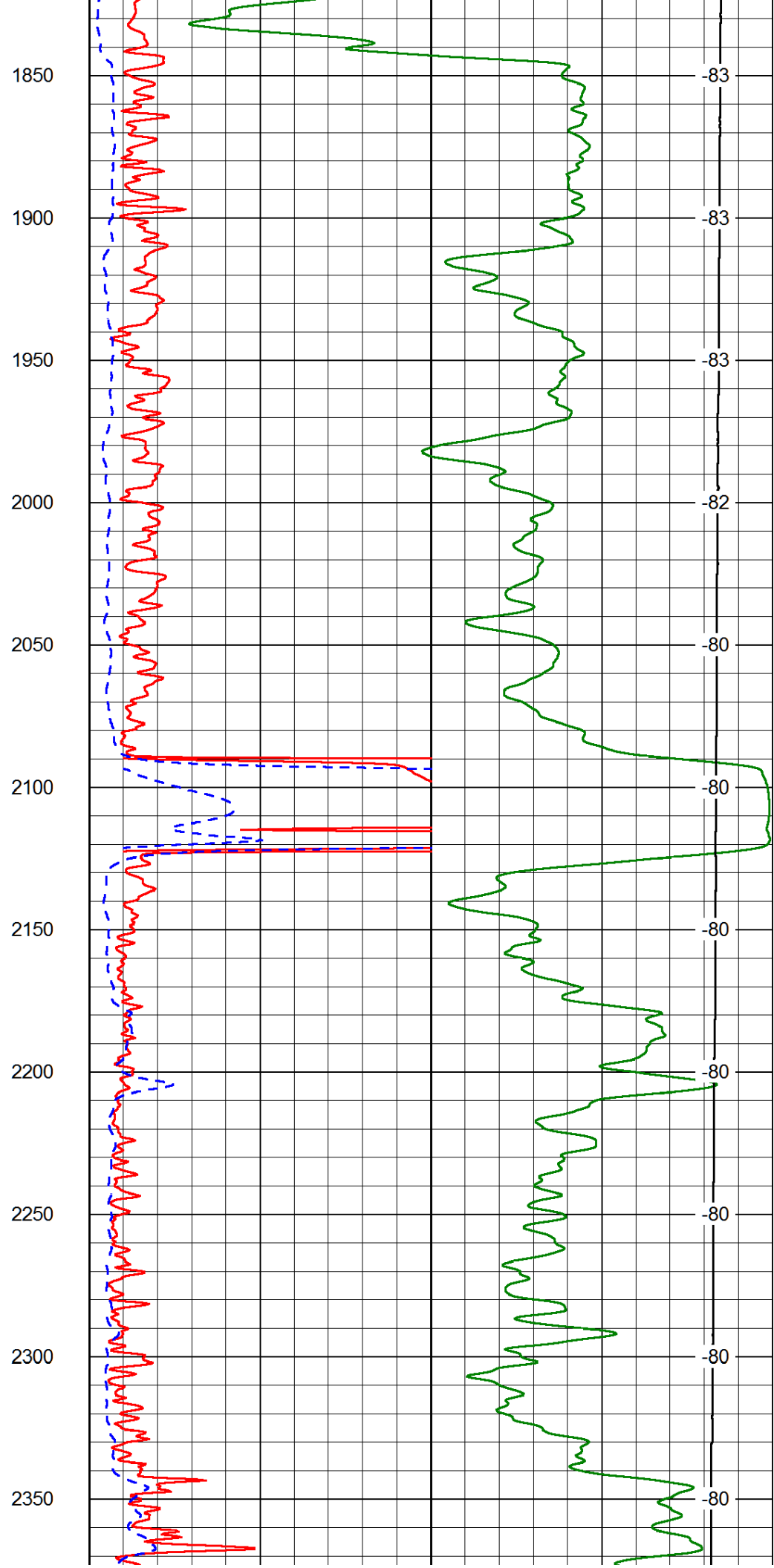
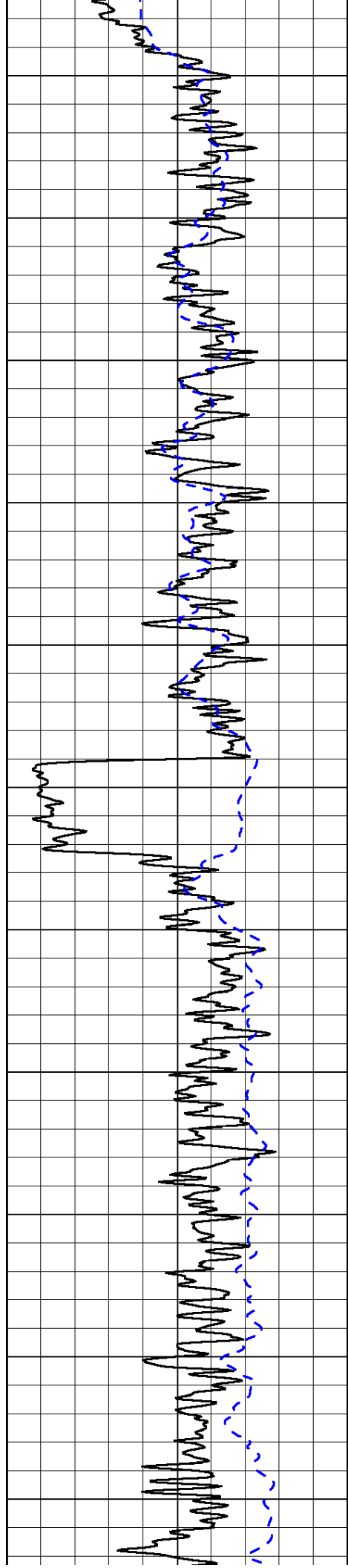
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0	Deep Resistivity	50
1000	Conductivity	0
15000	Line Tension	0
50	Shallow Resistivity	500
50	Deep Resistivity	500

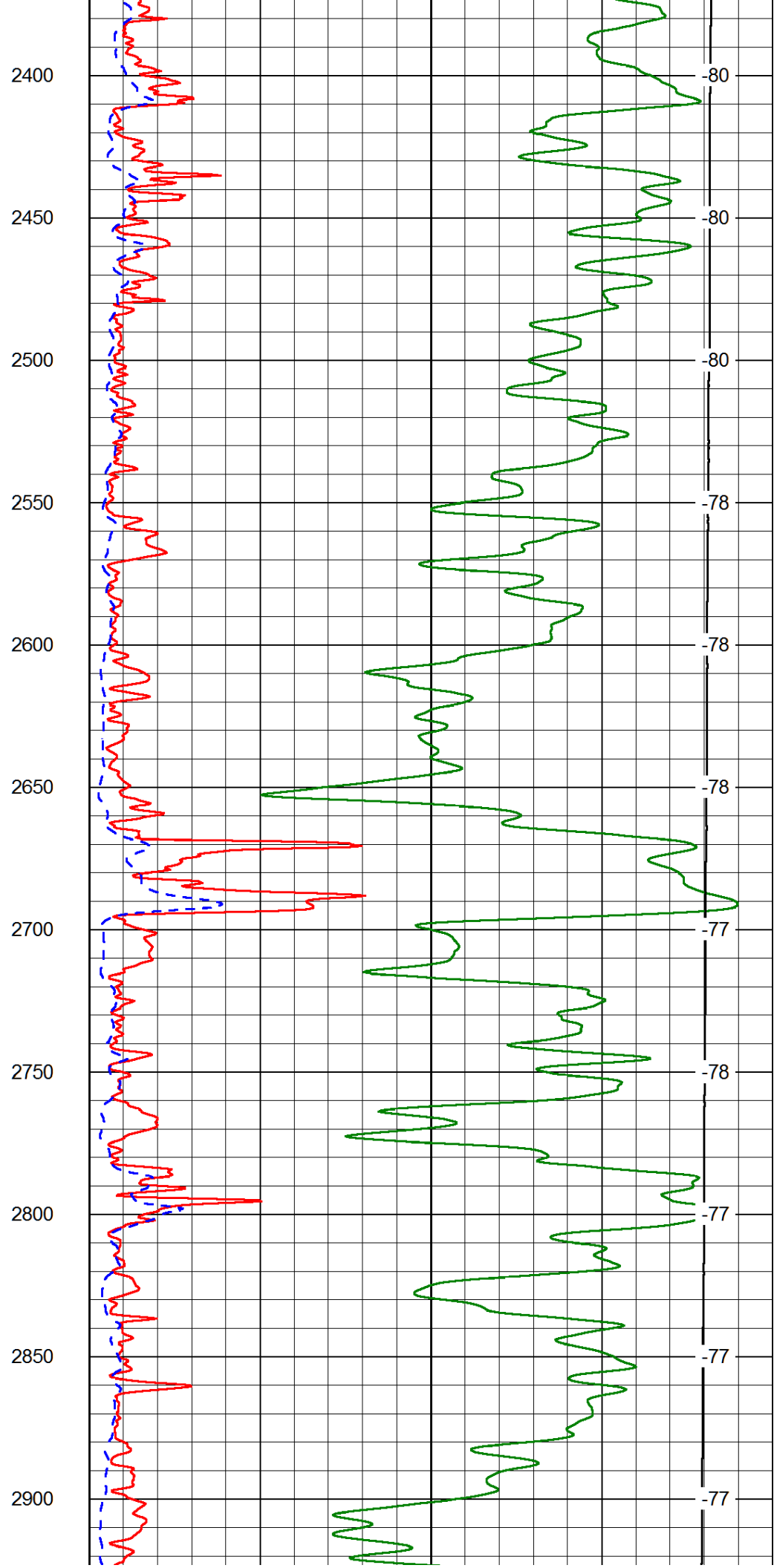
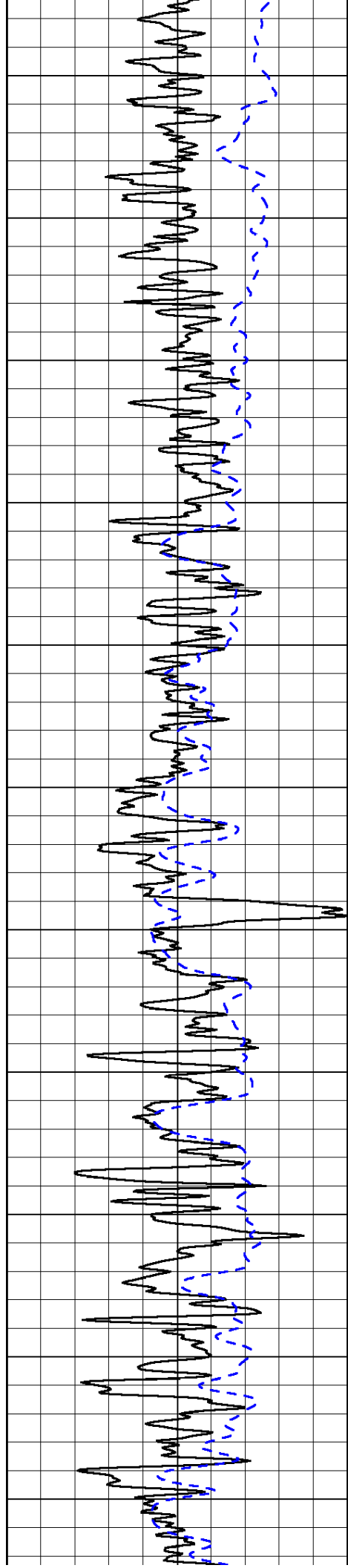
LSPD

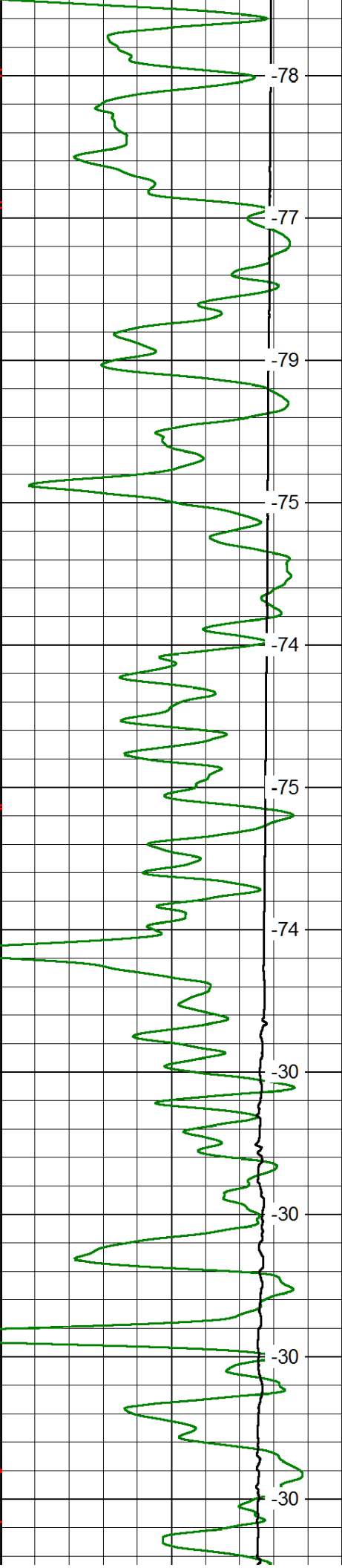
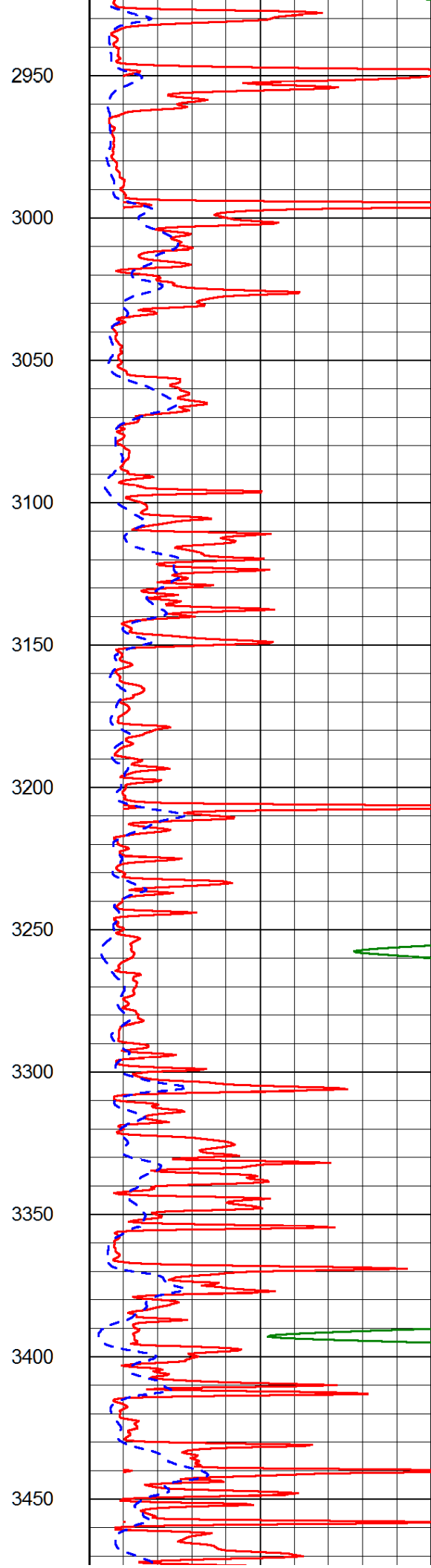
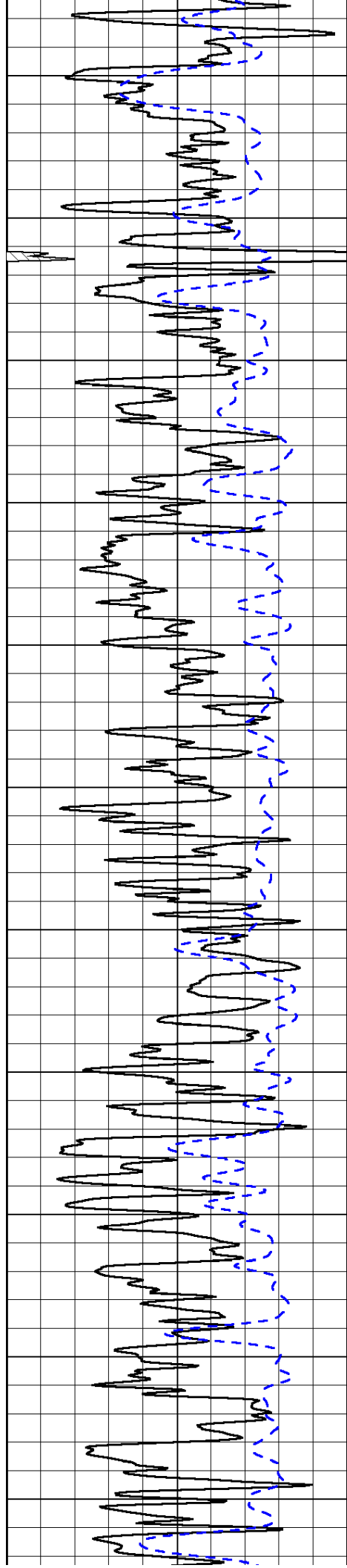


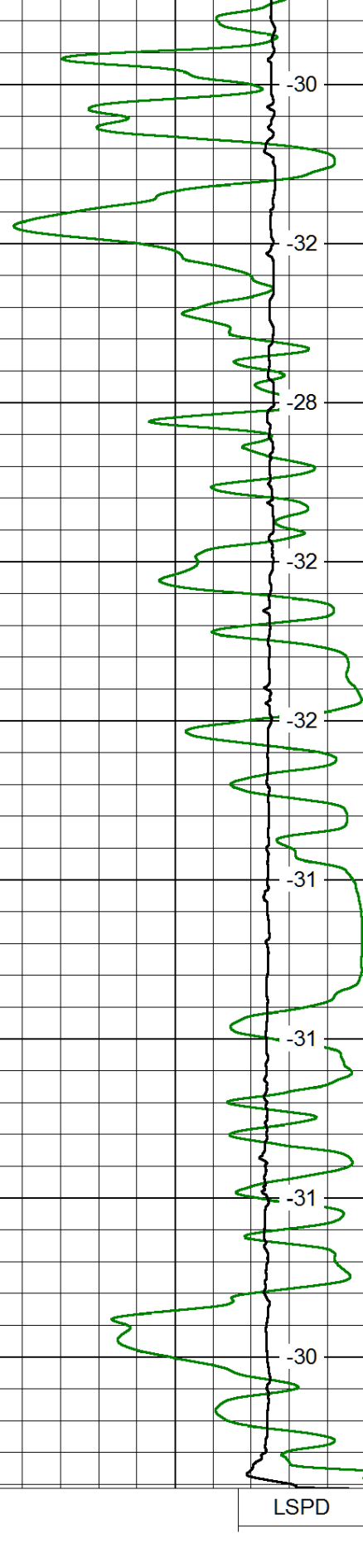
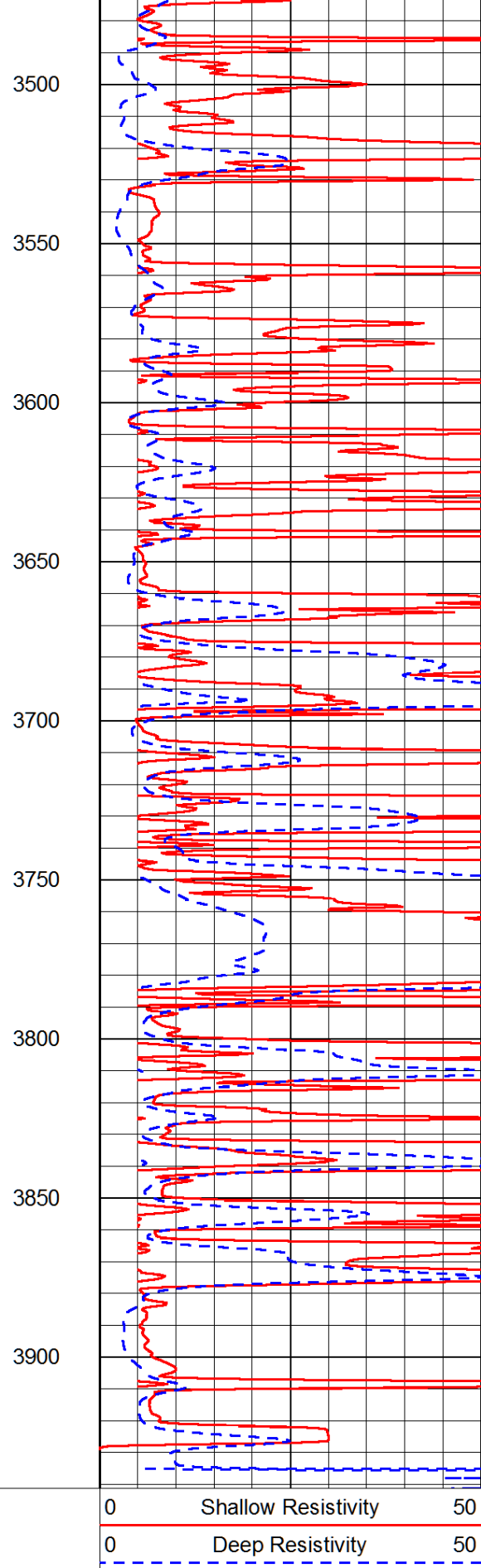
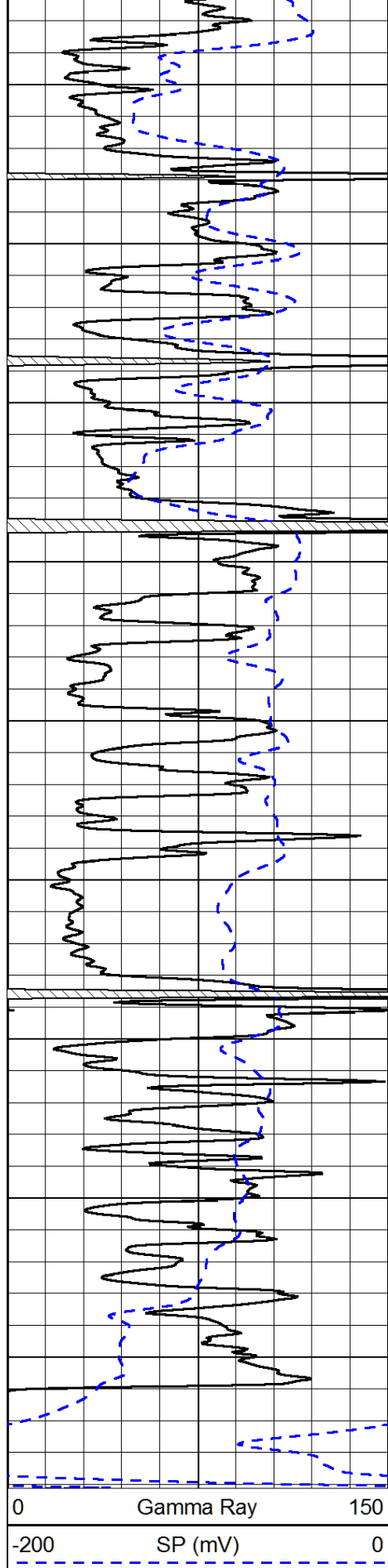












0	Gamma Ray	150
-200	SP (mV)	0

0	Shallow Resistivity	50
0	Deep Resistivity	50

1000	Conductivity	0
15000	Line Tension	0

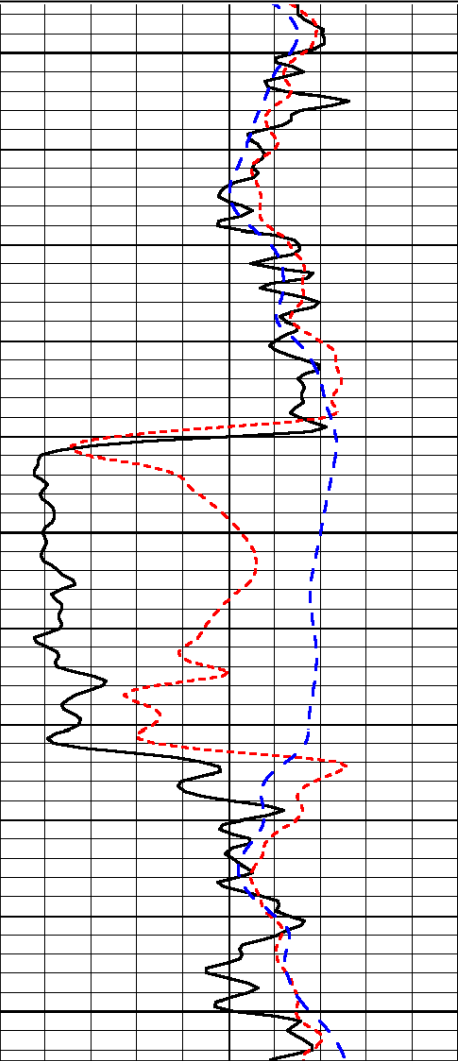
50	Shallow Resistivity	500
50	Deep Resistivity	500

Database File: hchd.db
Dataset Pathname: dil/hcstk2
Presentation Format: dil
Dataset Creation: Mon Sep 22 10:38:10 2014
Charted by: Depth in Feet scaled 1:240

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

0.2	Deep Resistivity	2000
0.2	Medium Resistivity	2000
0.2	Shallow Resistivity	2000
10000	Line Tension	0

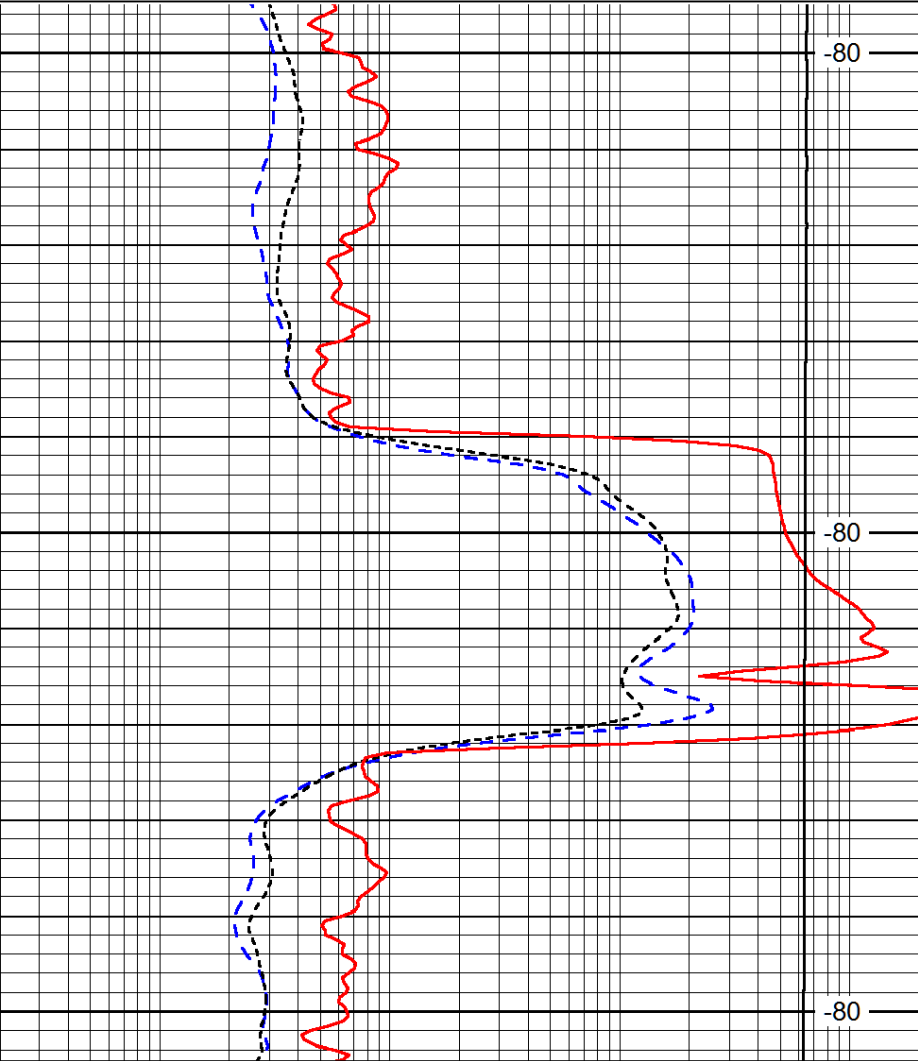
LSPD



2050

2100

2150



-80

-80

-80

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

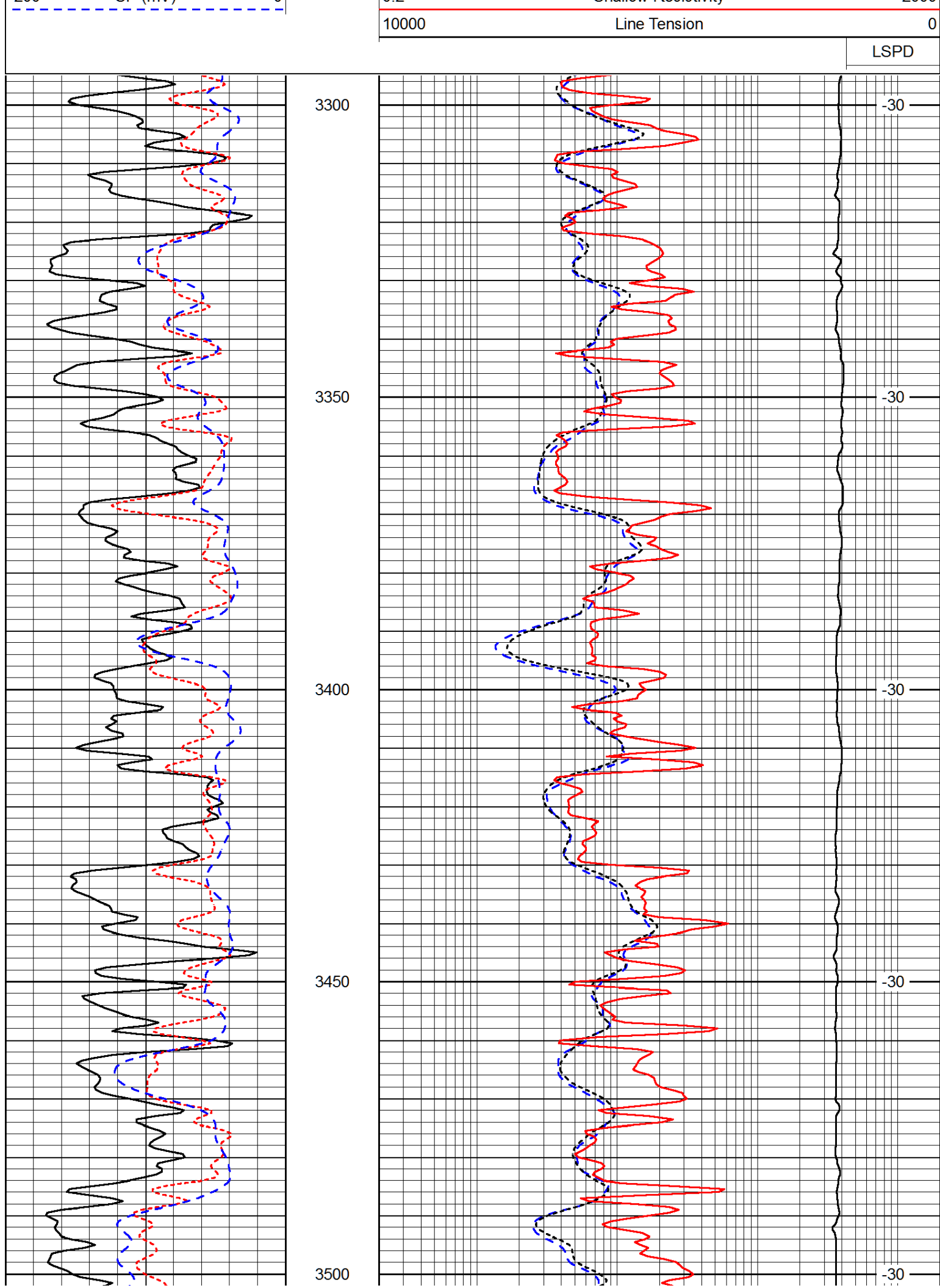
0.2	Deep Resistivity	2000
0.2	Medium Resistivity	2000
0.2	Shallow Resistivity	2000
10000	Line Tension	0

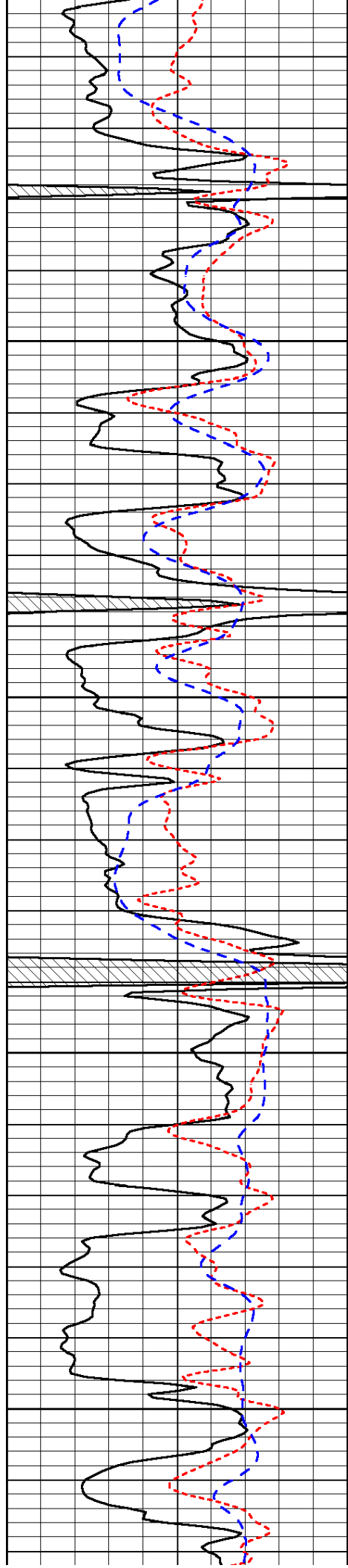
LSPD

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

0.2	Deep Resistivity	2000
0.2	Medium Resistivity	2000
0.2	Shallow Resistivity	2000



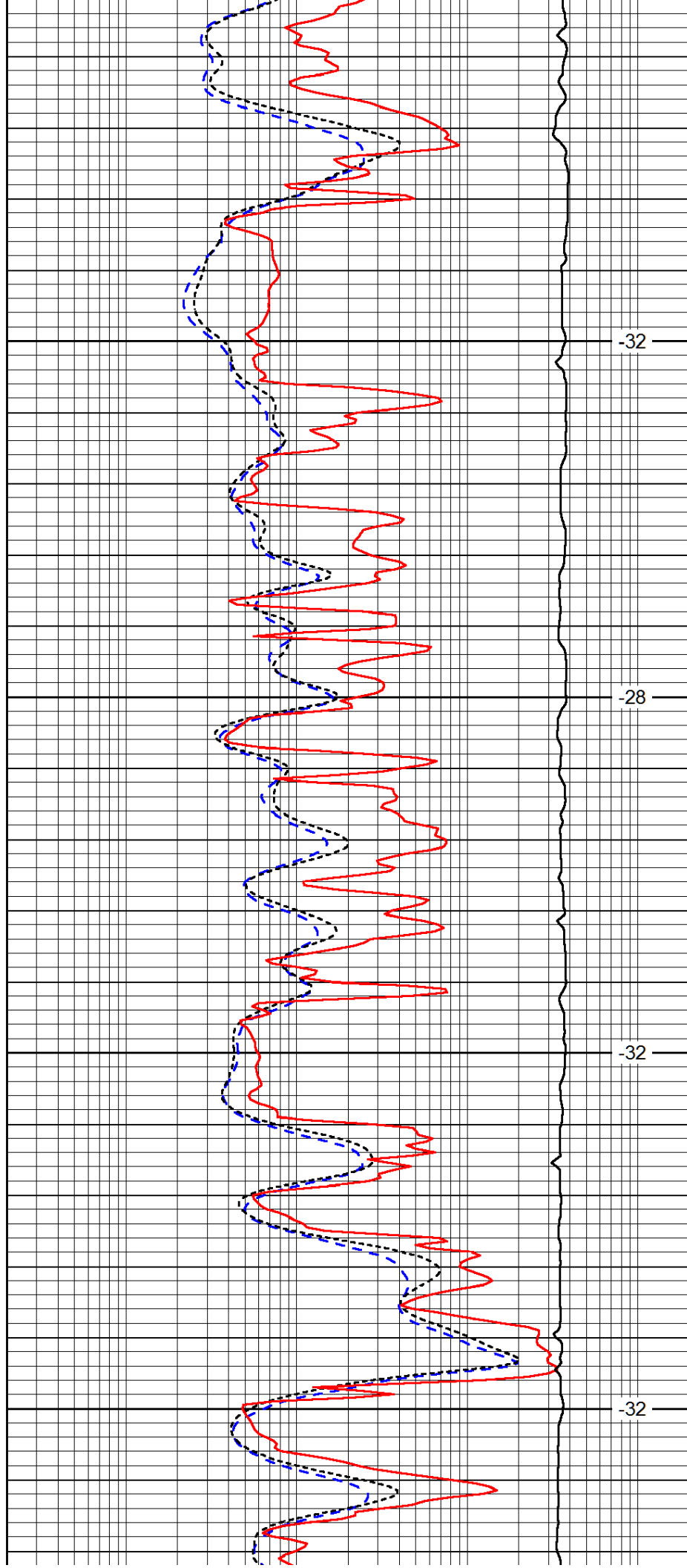


3550

3600

3650

3700

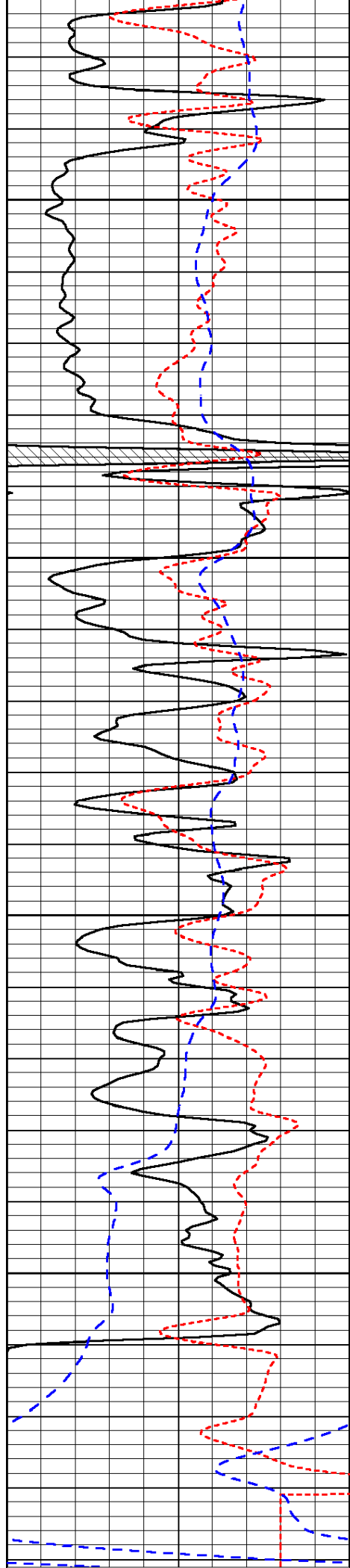


-32

-28

-32

-32

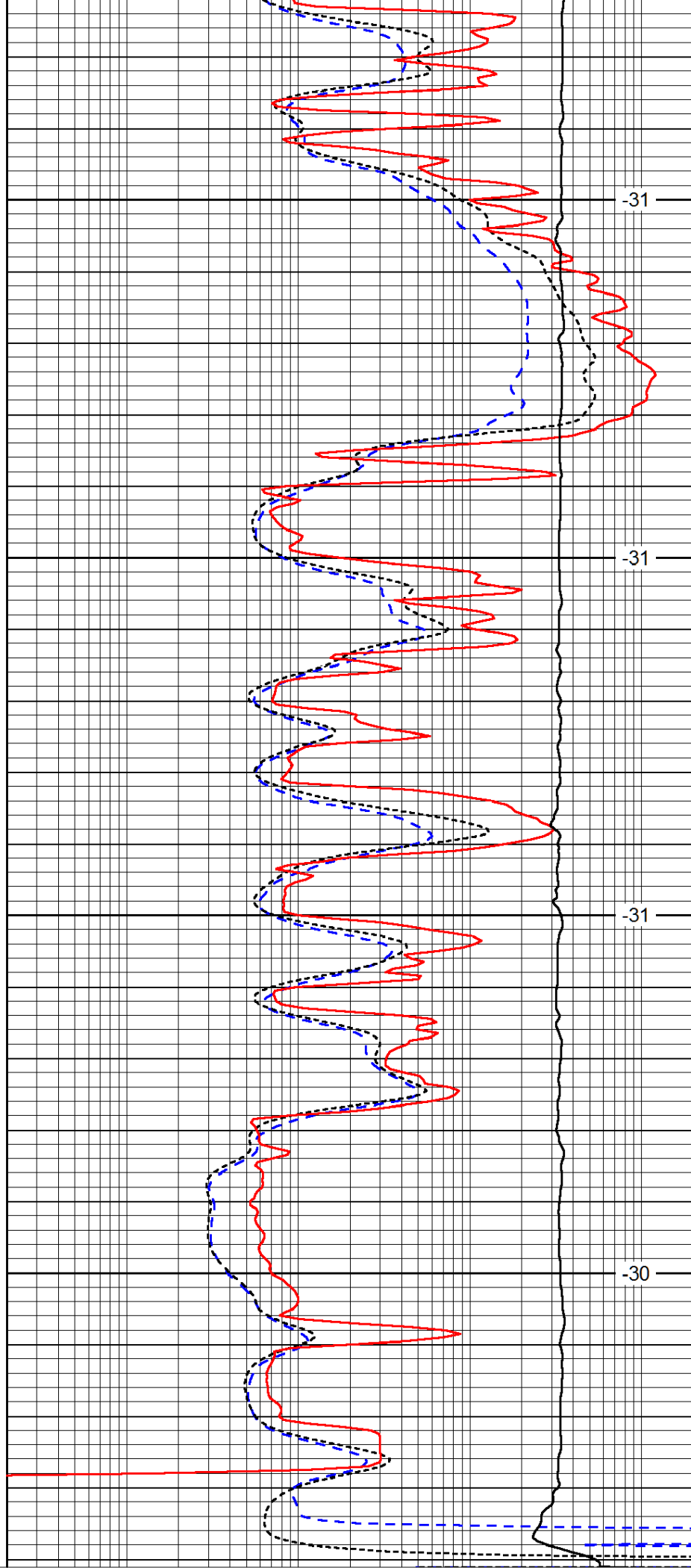


3750

3800

3850

3900



-31

-31

-31

-30

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

0.2	Deep Resistivity	2000
0.2	Medium Resistivity	2000
0.2	Shallow Resistivity	2000
10000	Line Tension	0
		LSPD