



Pioneer Energy Services

Dual Induction Log

API No.

15-065-24,033-00-00

Company Mar-Lou Oil Company, LLC.

Well Davignon No. 5

Field Morel

County Graham

State

Kansas

Location

330' FNL & 990' FWL

Sec: 20

Twp: 9S

Rge: 21W

Elevation

Permanent Datum Ground Level Elevation 2335
Log Measured From Kelly Bushing 9 Ft. Above Perm. Datum
Drilling Measured From Kelly Bushing

K.B. 2344
D.F. 2335
G.L. 2335

Date

7/18/2014

Run Number

One

Depth Driller

3900

Depth Logger

3900

Bottom Logged Interval

3899

Top Log Interval

200

Casing Driller

8.625 @ 220

Casing Logger

220

Bit Size

7.875

Type Fluid in Hole

Chemical

Salinity, ppm CL

1000

Density / Viscosity

9.0 65

pH / Fluid Loss

10.5 8.0

Source of Sample

Flowline

Rm @ Meas. Temp

1.31 @ 72

Rmf @ Meas. Temp

.98 @ 72

Rmc @ Meas. Temp

1.77 @ 72

Source of Rmf / Rmc

Charts

Rm @ BHT

.82 @ 115

Operating Rig Time

4 Hours

Max Rec. Temp. F

115

Equipment Number

108

Location

Hays

Recorded By

J. Long

D. Fischer

Witnessed By

Roger Fisher

<<< Fold Here >>>

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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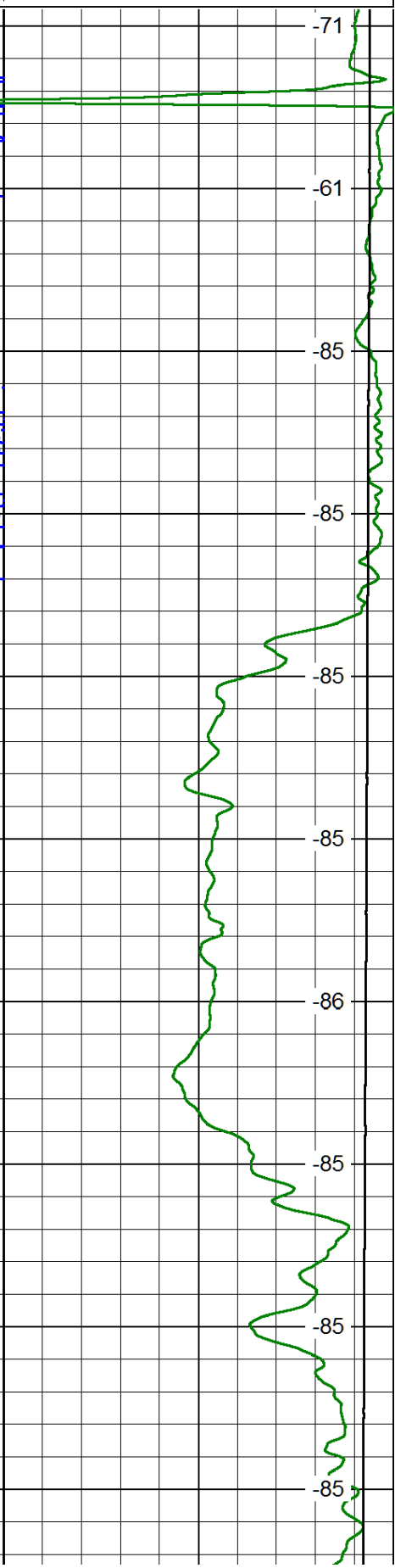
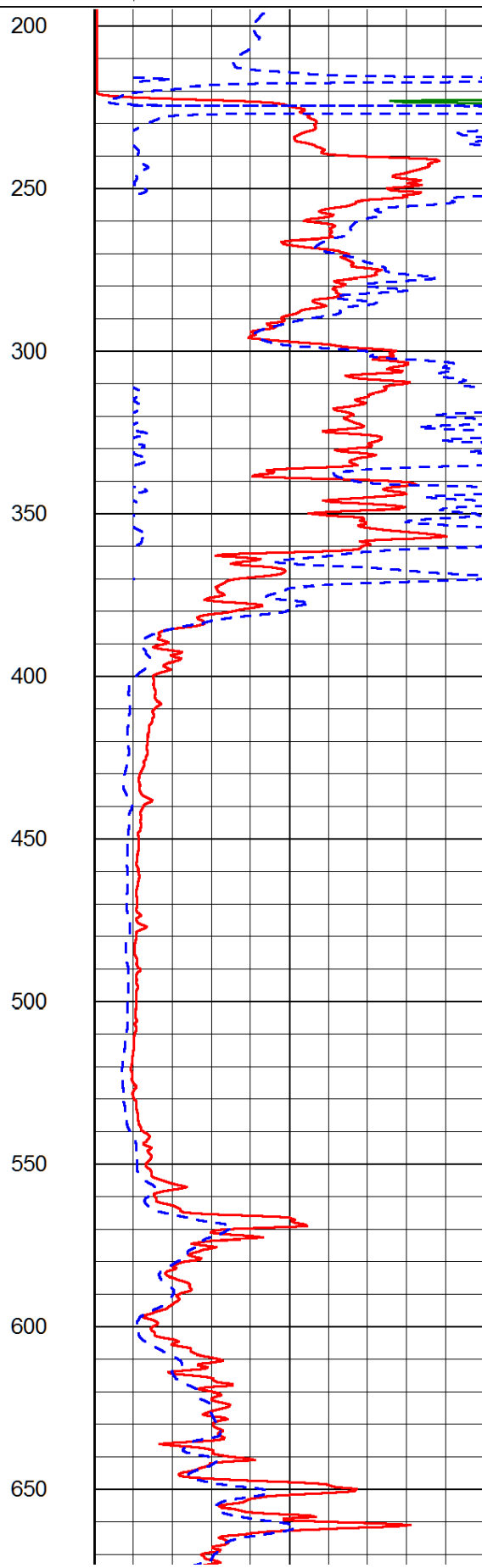
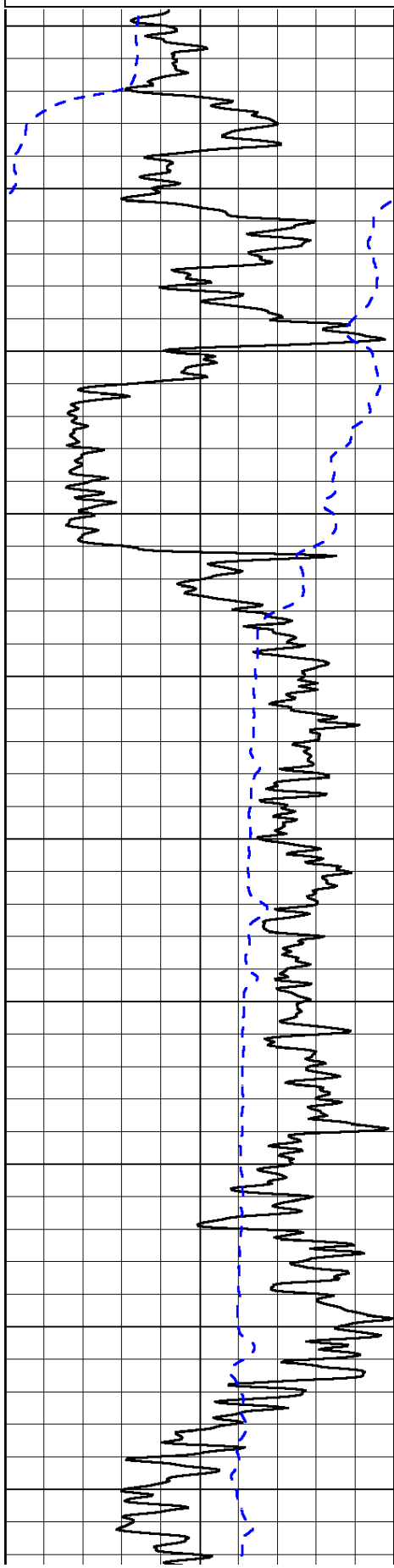
Bogue Ks., 7 1/4 South, East Into.

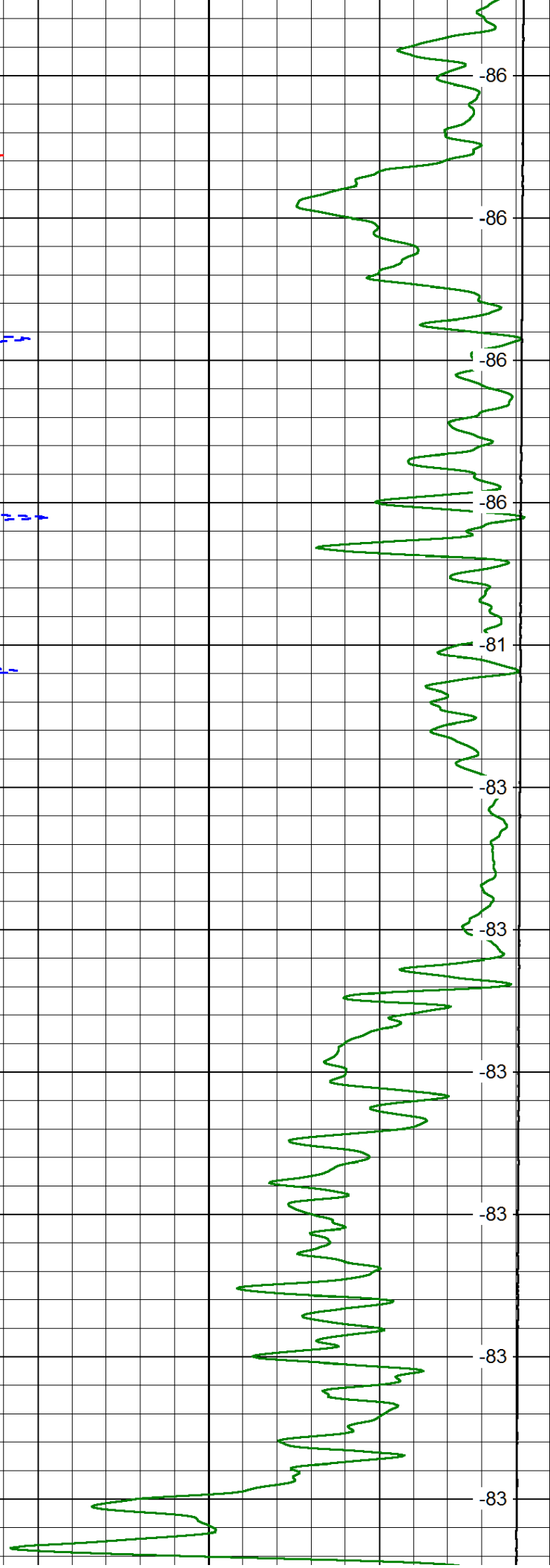
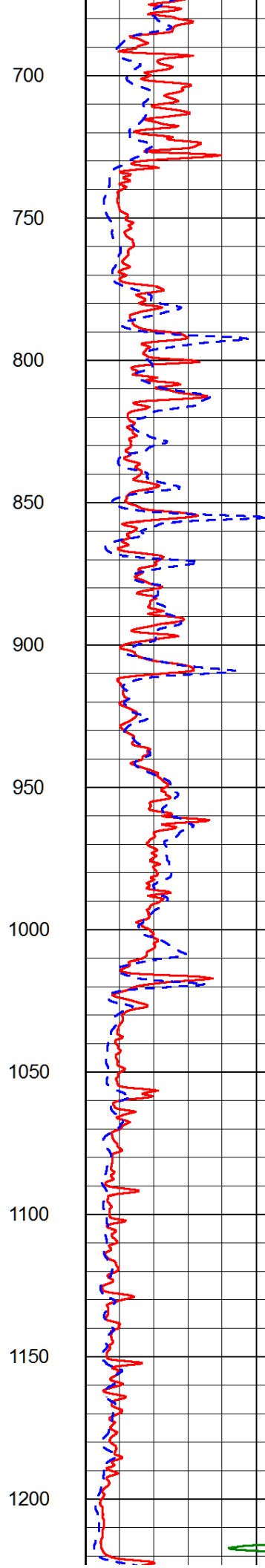
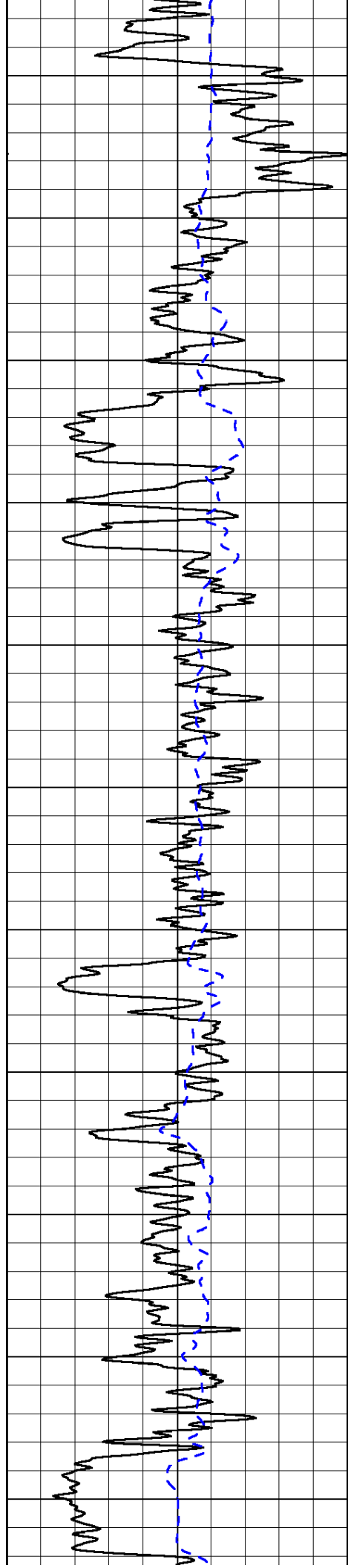
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Dataset Pathname: DIL/marstck
Presentation Format: dil2in
Dataset Creation: Fri Jul 18 05:25:12 2014
Charted by: Depth in Feet scaled 1:600

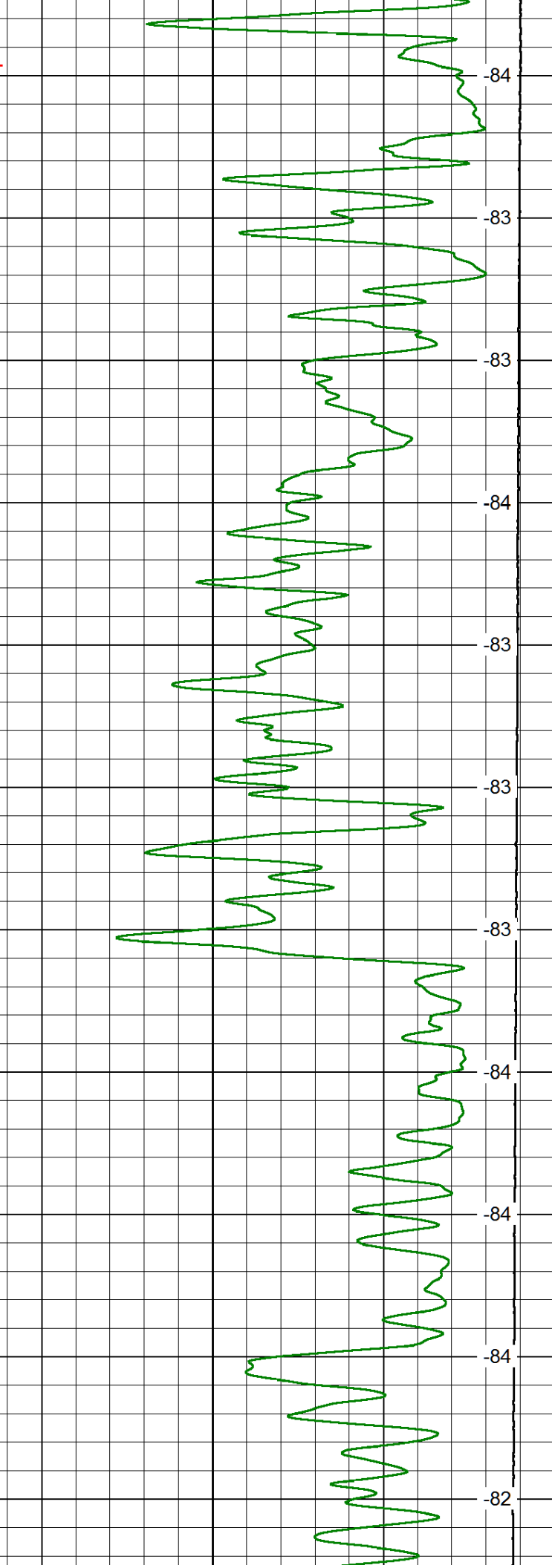
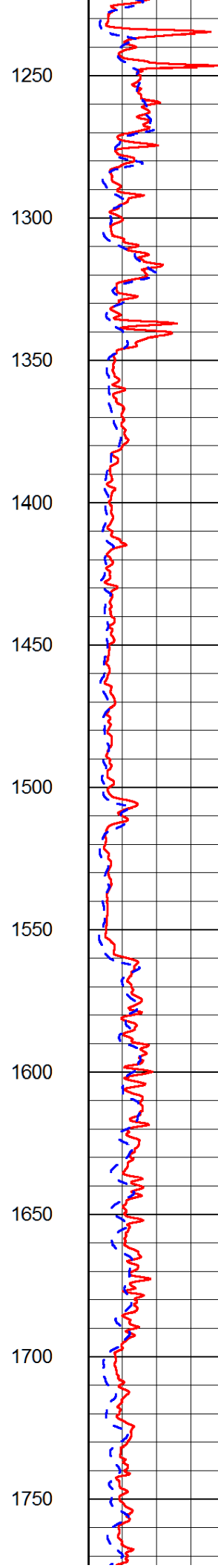
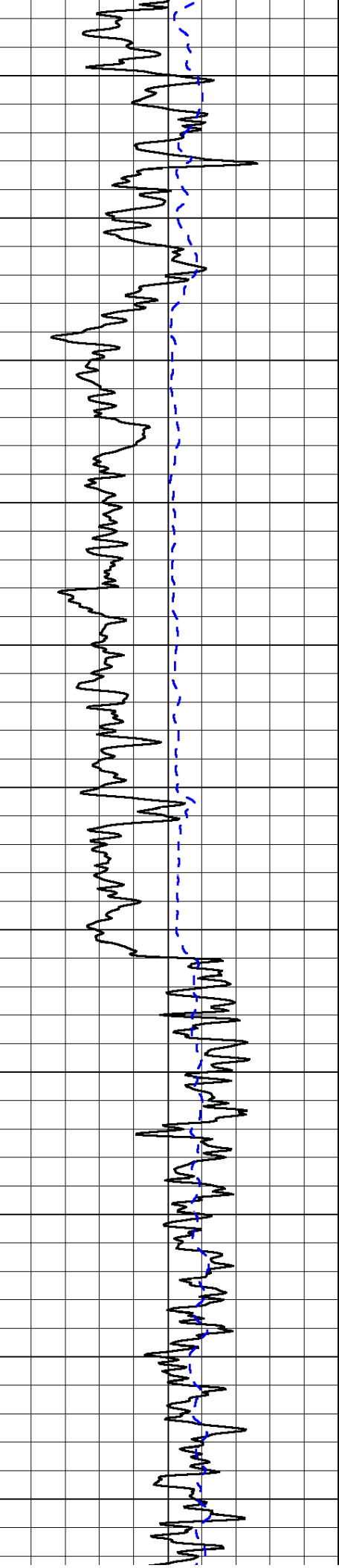
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-200	SP (mV)	0

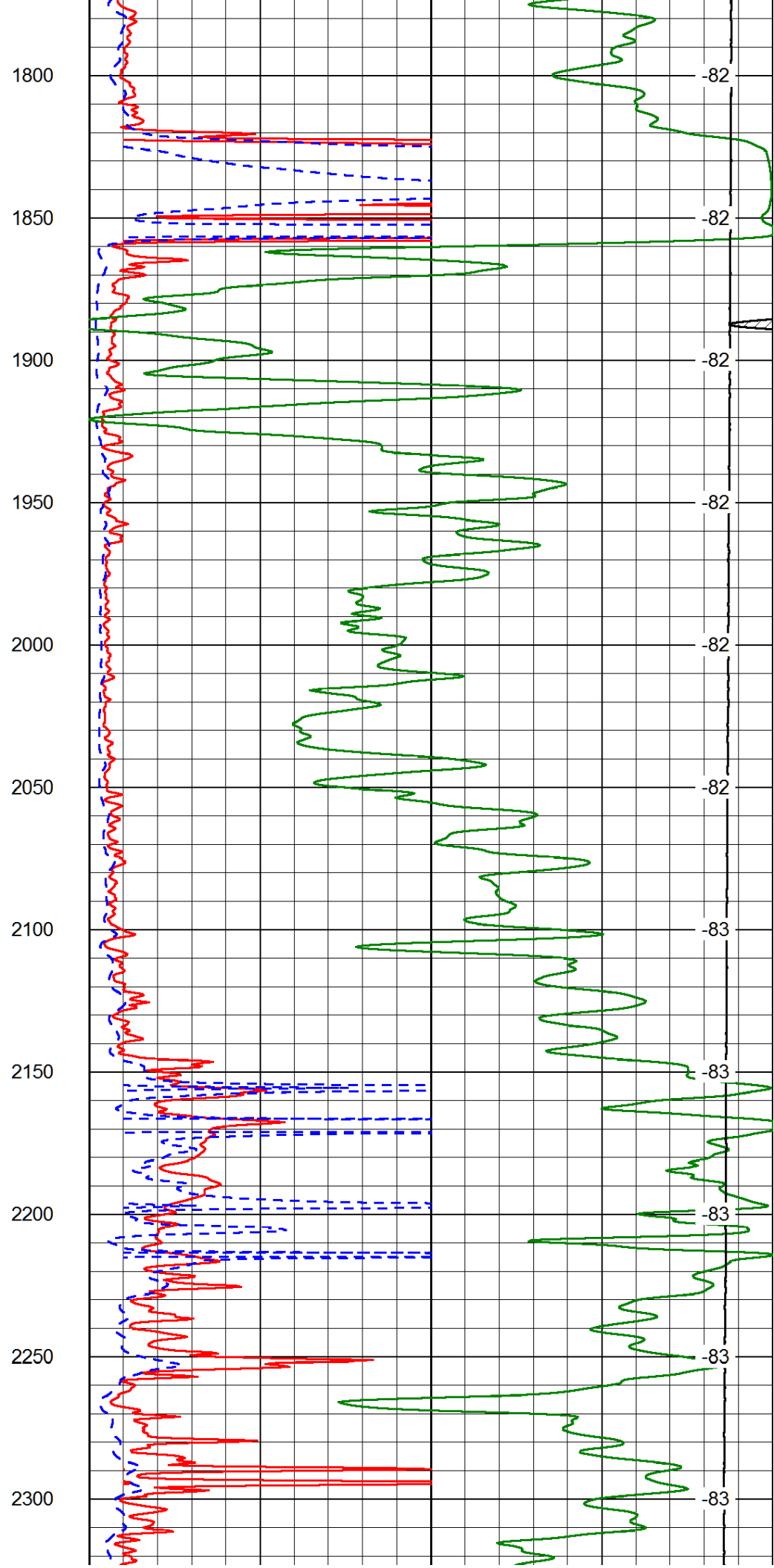
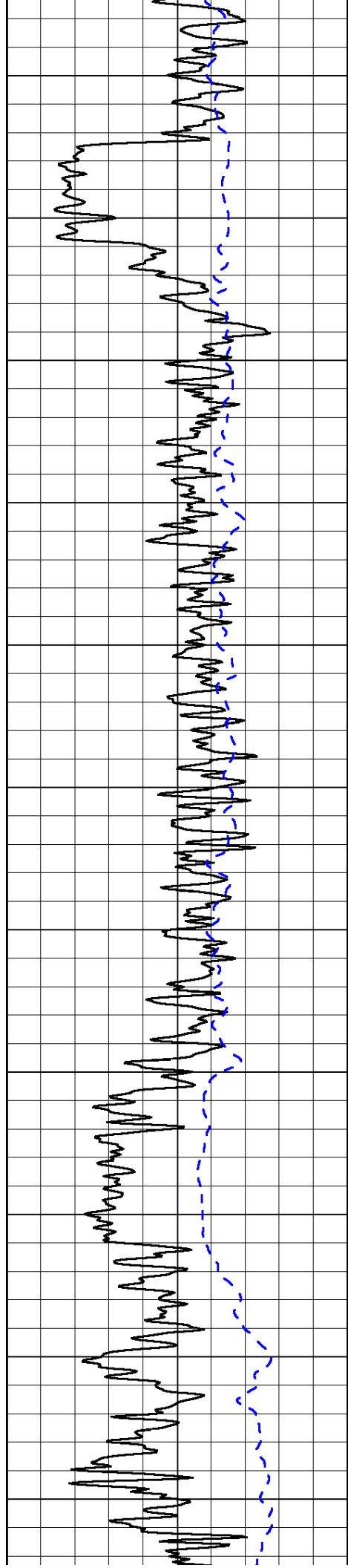
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0	Deep Resistivity	50
1000	Conductivity	0
15000	Line Tension	0
50	Shallow Resistivity	500
50	Deep Resistivity	500

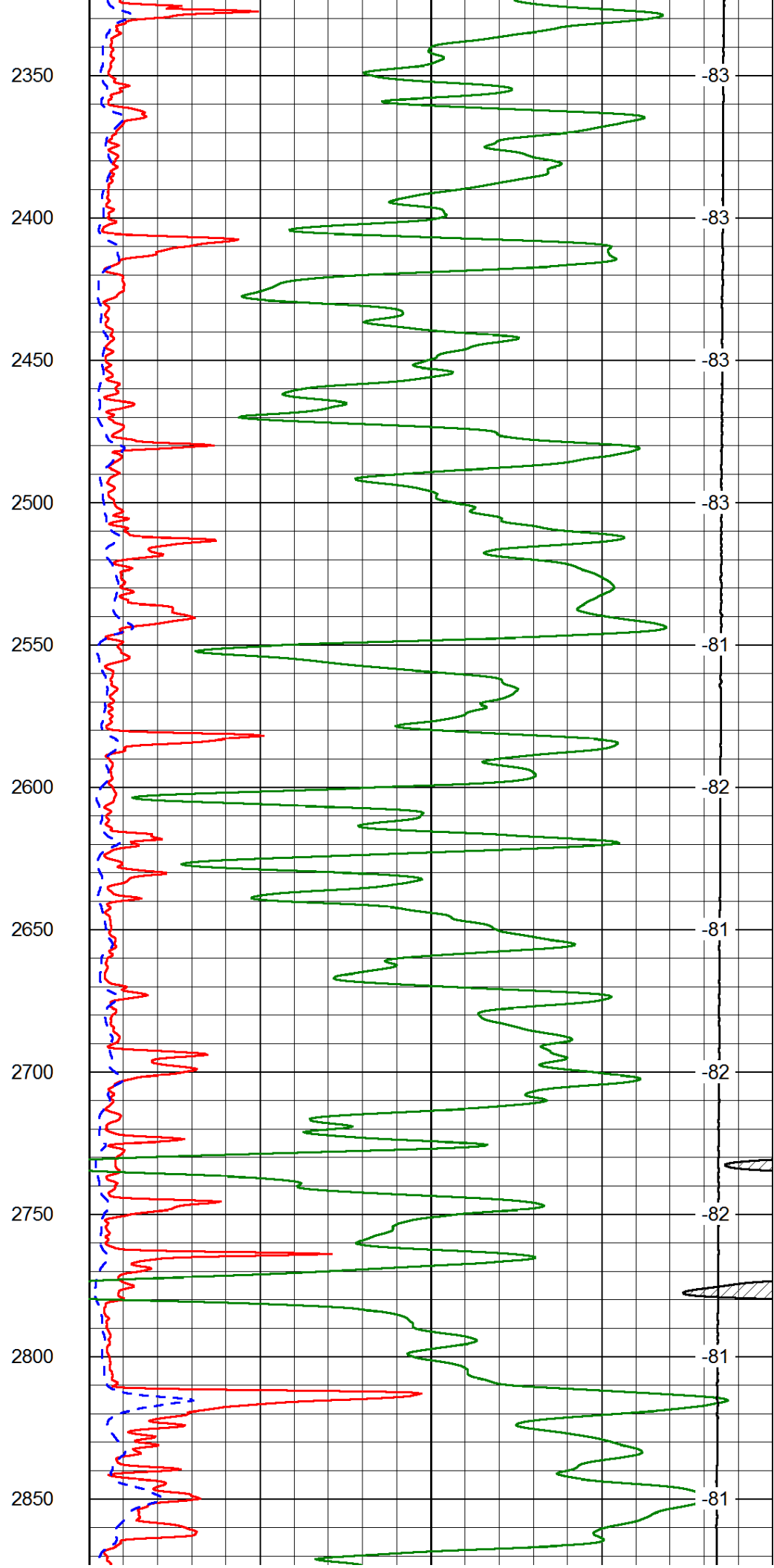
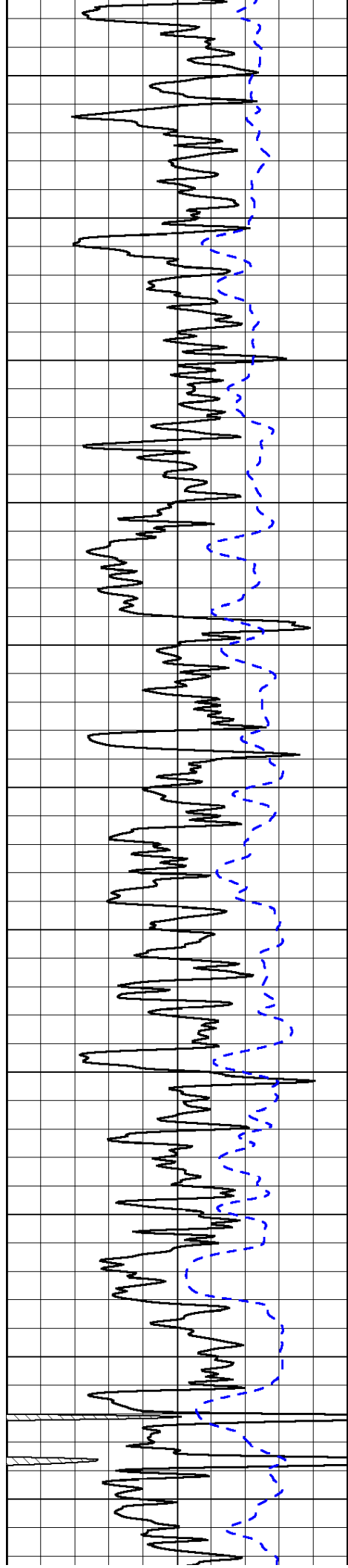
LSPD

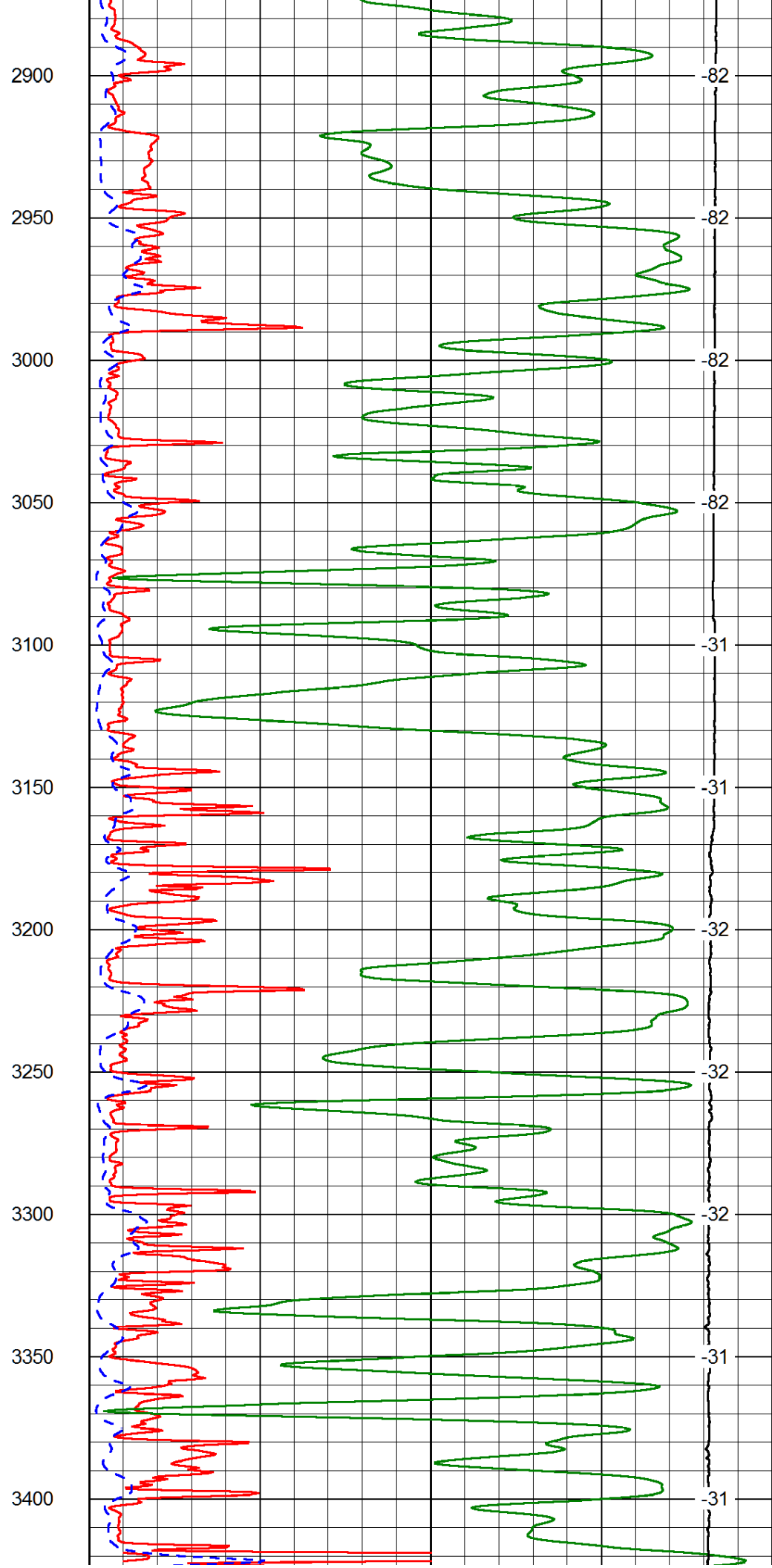
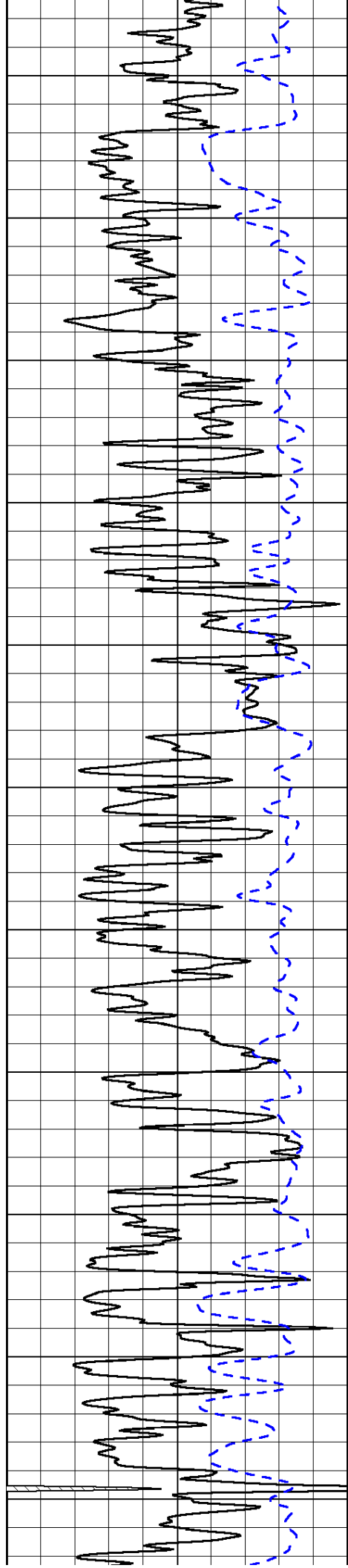


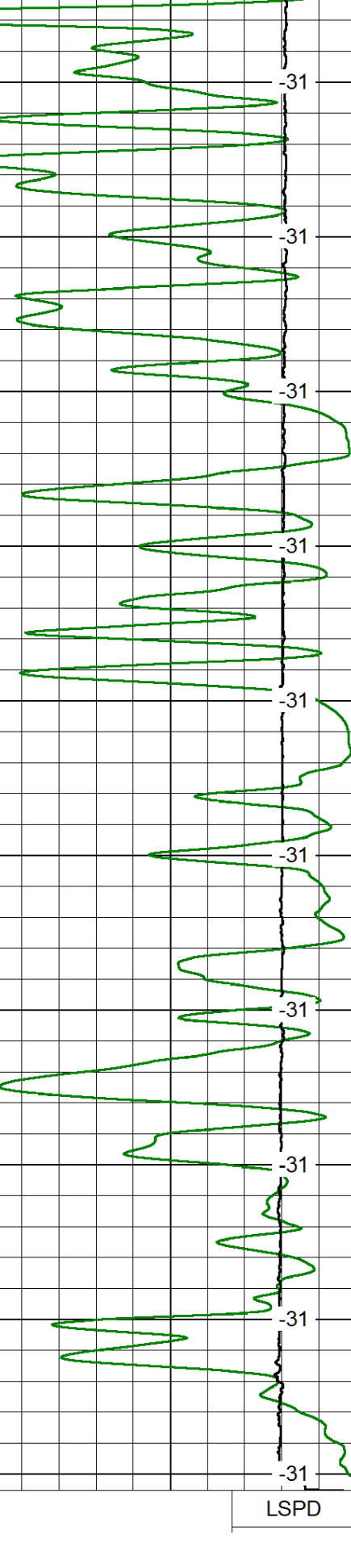
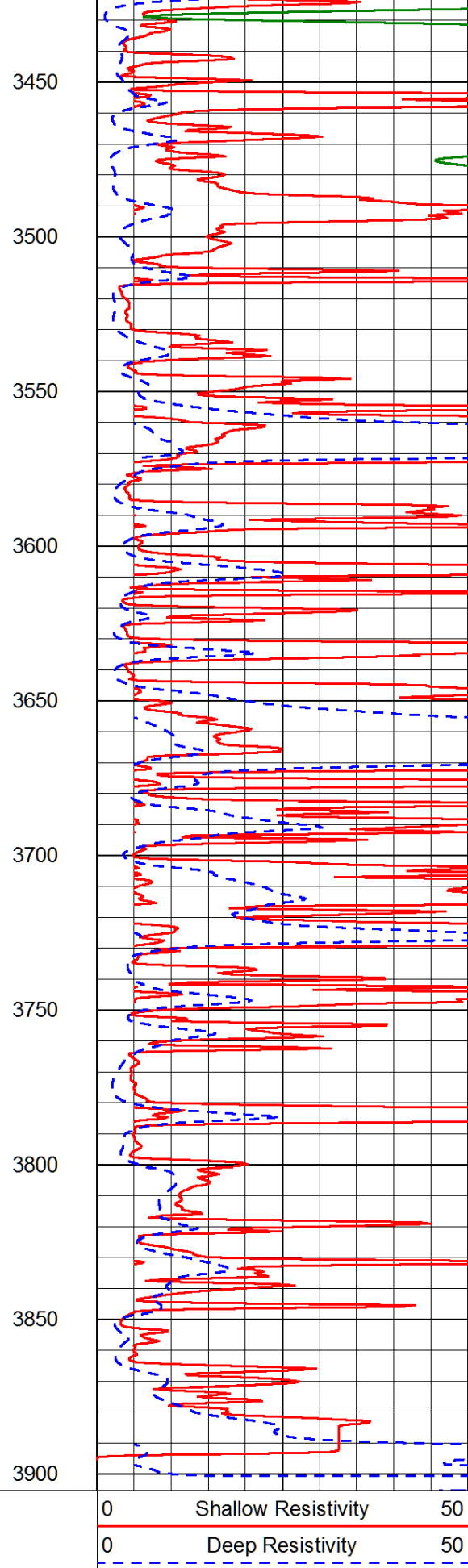
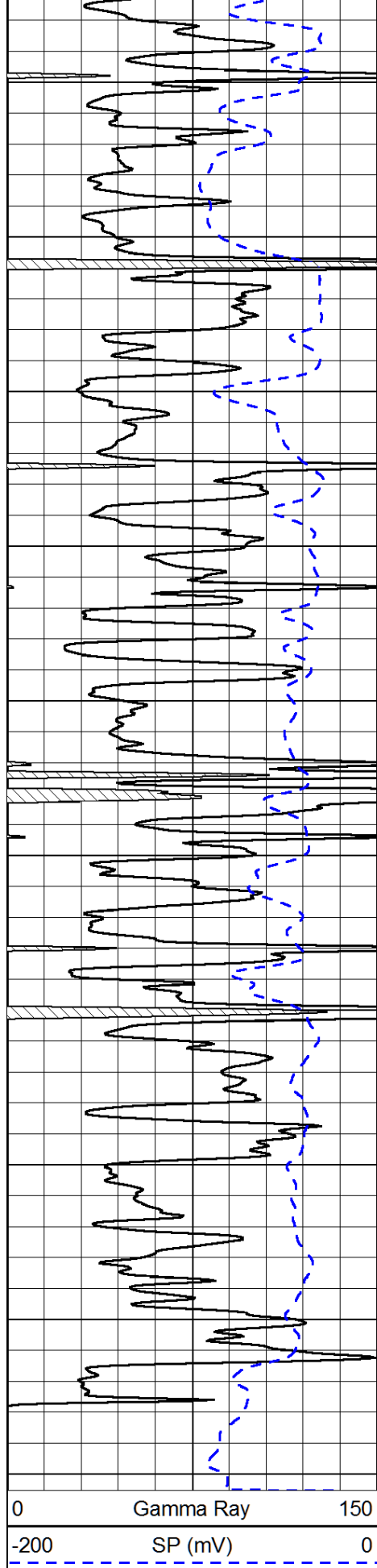












0 Gamma Ray 150
-200 SP (mV) 0

0 Shallow Resistivity 50
0 Deep Resistivity 50

LSPD
0

1000 Conductivity 0
15000 Line Tension 0

50 Shallow Resistivity 500

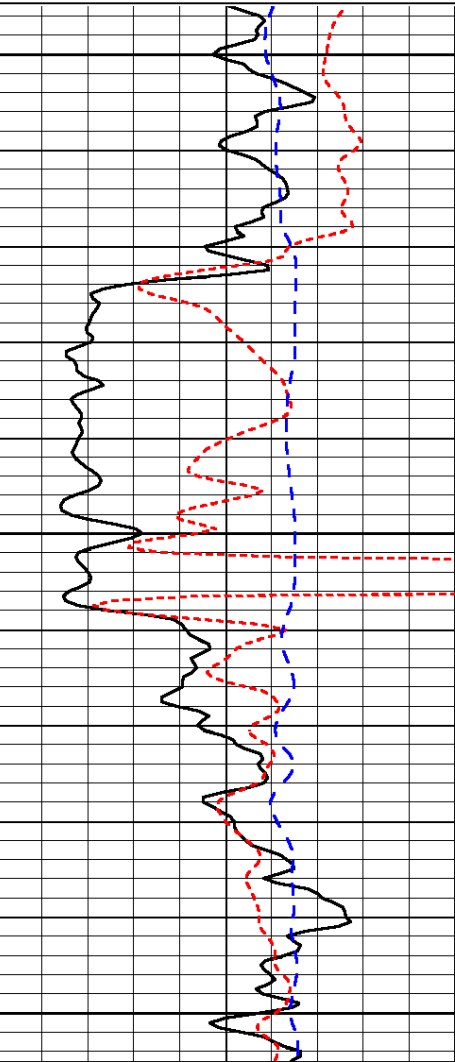
50 Deep Resistivity 500

Database File: mar-lou_davignon_5hd.db
Dataset Pathname: DIL/marstck
Presentation Format: dil
Dataset Creation: Fri Jul 18 05:25:12 2014
Charted by: Depth in Feet scaled 1:240

0	Gamma Ray	150
-160	RXO/RT	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

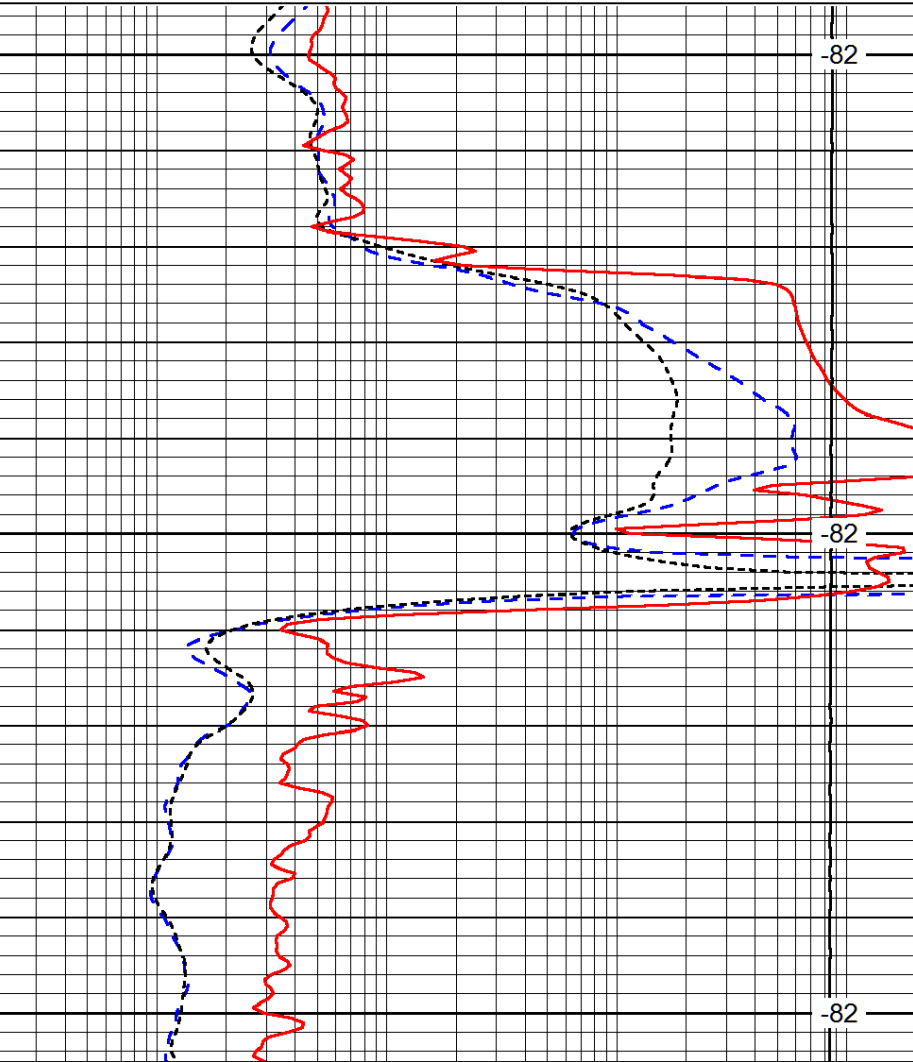


0	Gamma Ray	150
-160	RXO/RT	40
-200	SP (mV)	0

1800

1850

1900



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

LSPD

Database File: mar-lou_davignon_5hd.db
Dataset Pathname: DIL/marstck
Presentation Format: dil
Dataset Creation: Fri Jul 18 05:25:12 2014
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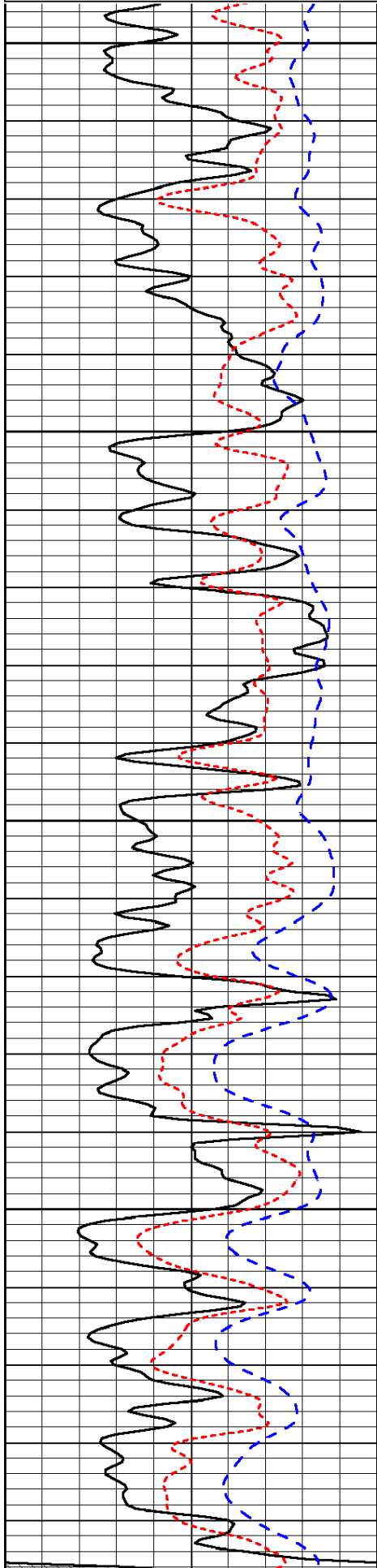
0	Gamma Ray	150
-160	RXO/RT	40
-200	SP (mV)	0

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

-160	RXO/R1	40
-200	SP (mV)	0

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

LSPD

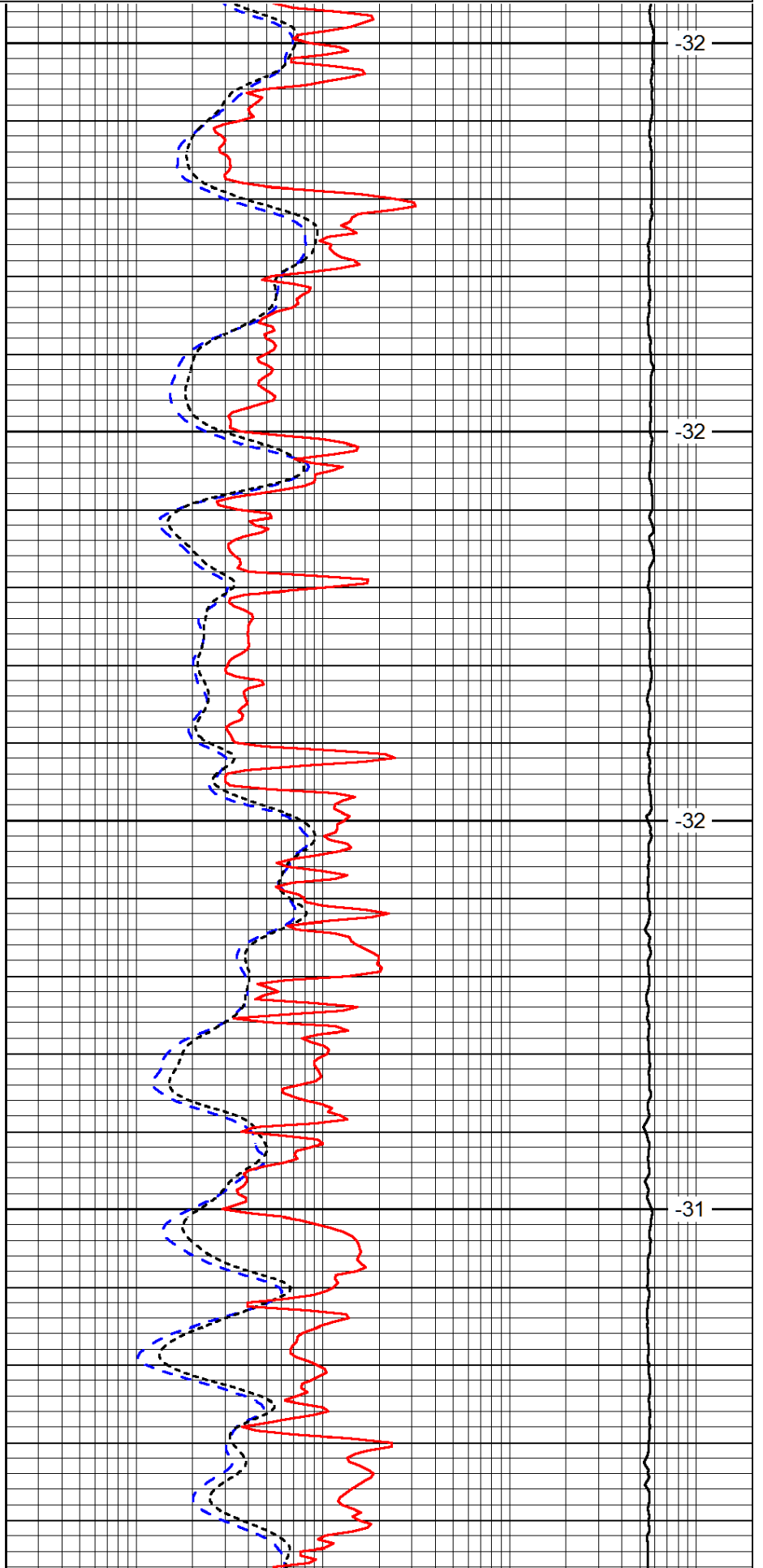


3200

3250

3300

3350

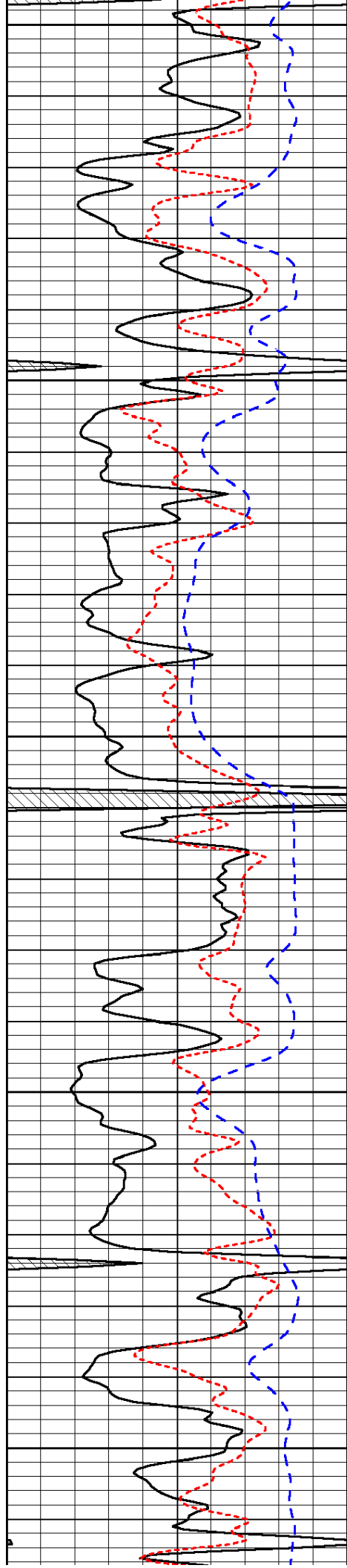


-32

-32

-32

-31



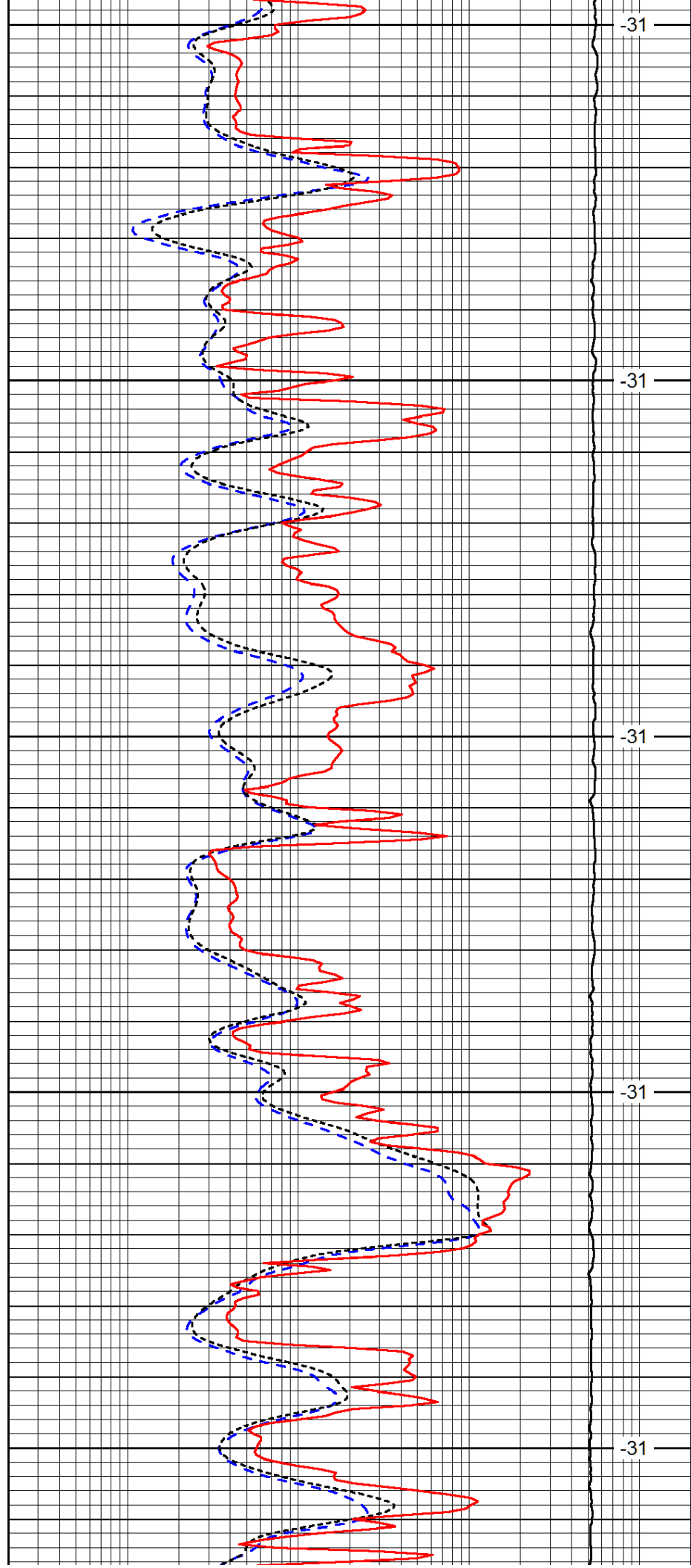
3400

3450

3500

3550

3600



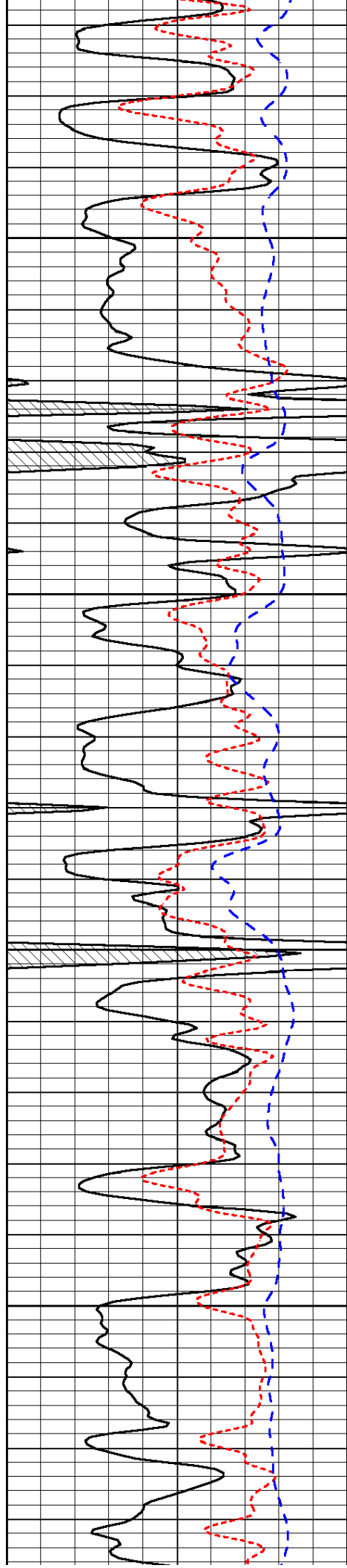
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-31

-31

-31

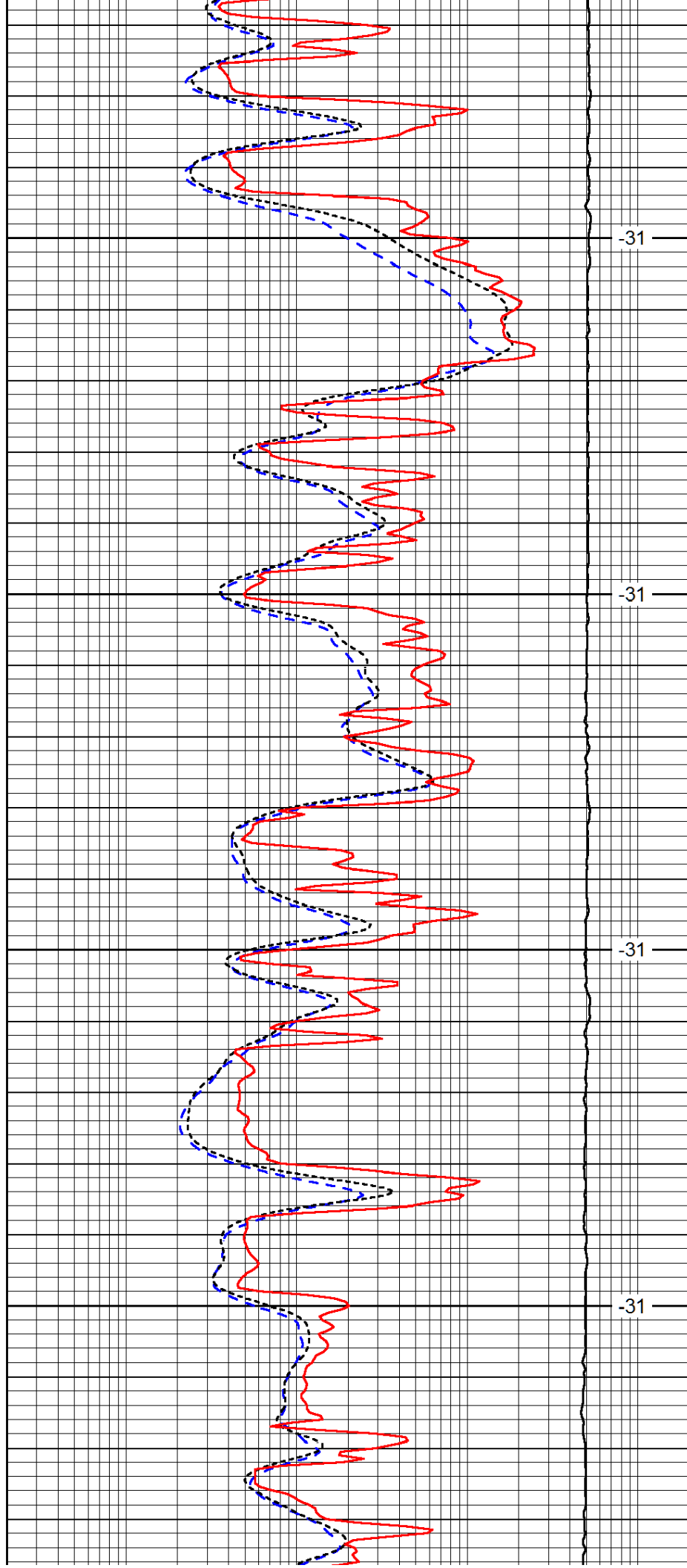


3650

3700

3750

3800

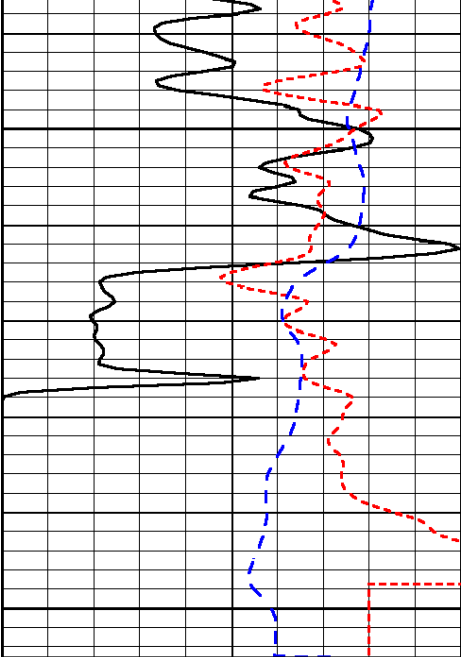


-31

-31

-31

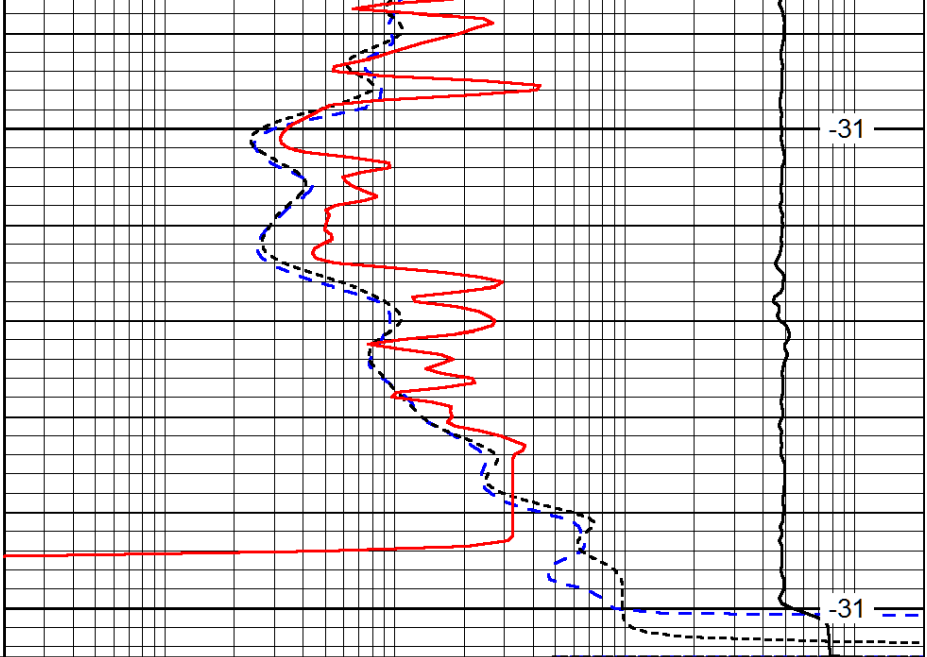
-31



3850

3900

0	Gamma Ray	150
-160	RXO/RT	40
-200	SP (mV)	0



-31

-31

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

LSPD