



Pioneer Energy Services

Dual Induction Log

API No.

15-009-26057-00-00

Company Tomlinson Operating, LLC

Well Hoffman Trust #1

Field Kraft-Prusa

County Barton State Kansas

Location

SE SE SE
330' FSL / 330' FEL

Sec: 13 Twp: 16S Rge: 12W

Other Services
CNL/CDL
MEL/BHCS

Elevation

K.B. 1889
D.F.
G.L. 1880

Permanent Datum Ground Level Elevation 1880
Log Measured From Kelly Bushing 9 Ft. Above Perm. Datum
Drilling Measured From Kelly Bushing

Date 12/19/2014

Run Number One

Depth Driller 3413

Depth Logger 3412

Bottom Logged Interval 3411

Top Log Interval 400

Casing Driller 8.625 @ 413

Casing Logger 406

Bit Size 7.875

Type Fluid in Hole Chemical

Salinity, ppm CL 7300

Density / Viscosity 9.3 49

pH / Fluid Loss 8.0 9.2

Source of Sample Flowline

Rm @ Meas. Temp 0.32 @ 42

Rmf @ Meas. Temp 0.24 @ 42

Rmc @ Meas. Temp 0.43 @ 42

Source of Rmf / Rmc Charts

Rm @ BHT 0.12 @ 110

Operating Rig Time 4 Hours

Max Rec. Temp. F 110

Equipment Number 15

Location Hays

Recorded By R. Barnhart

Witnessed By Bob O'Dell

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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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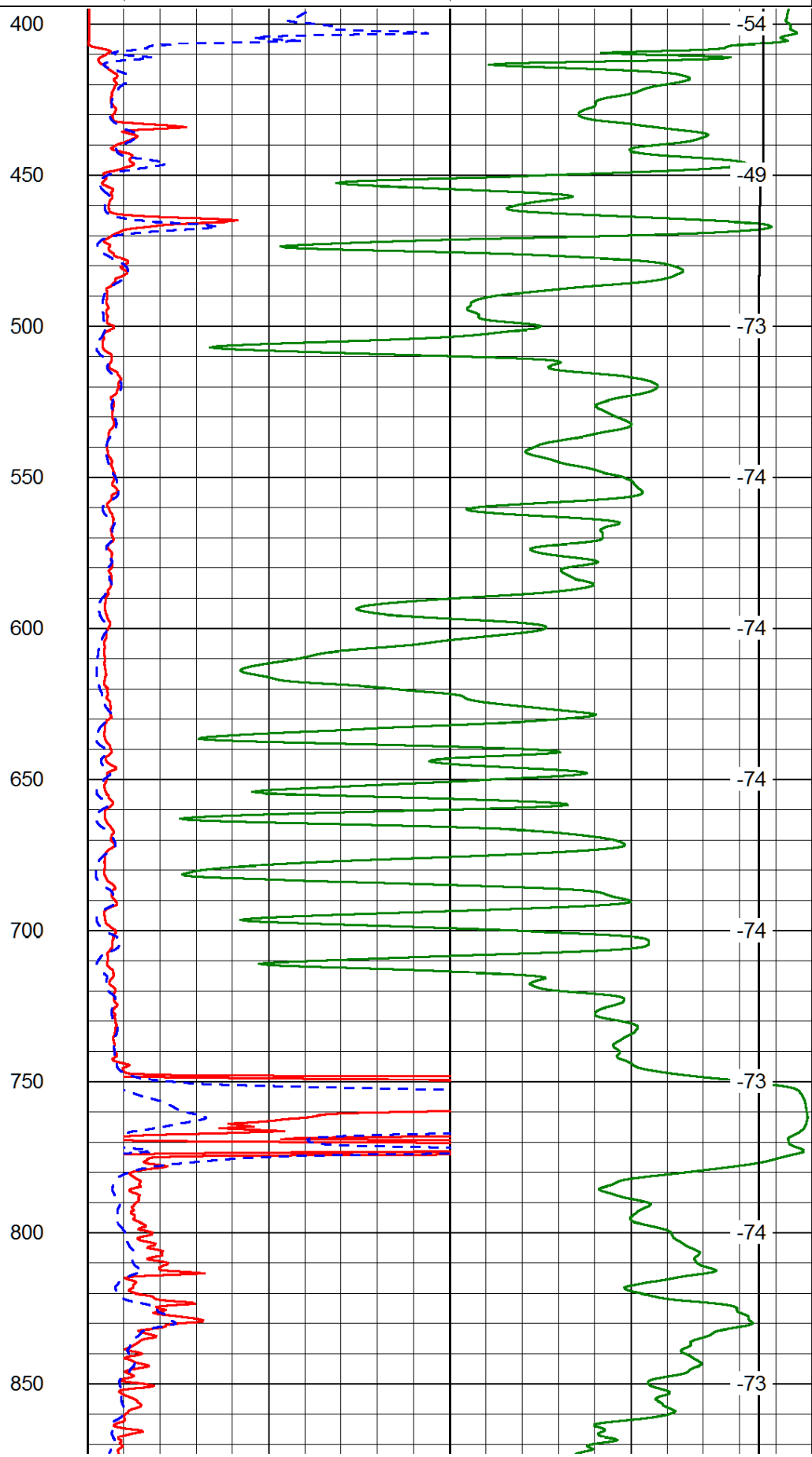
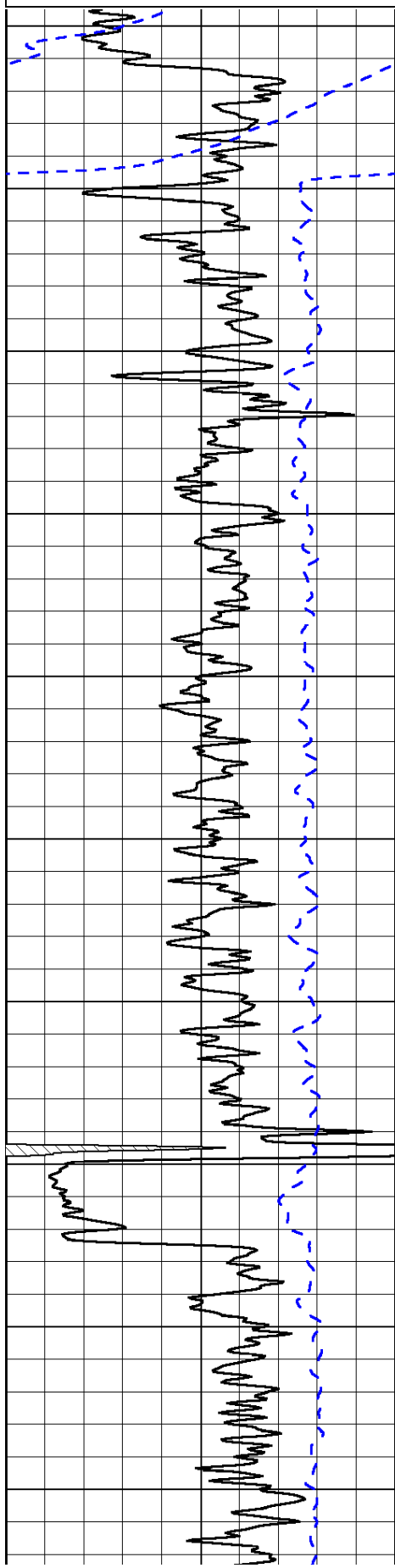
Beaver, KS:
3E, 1N, .9E, N into

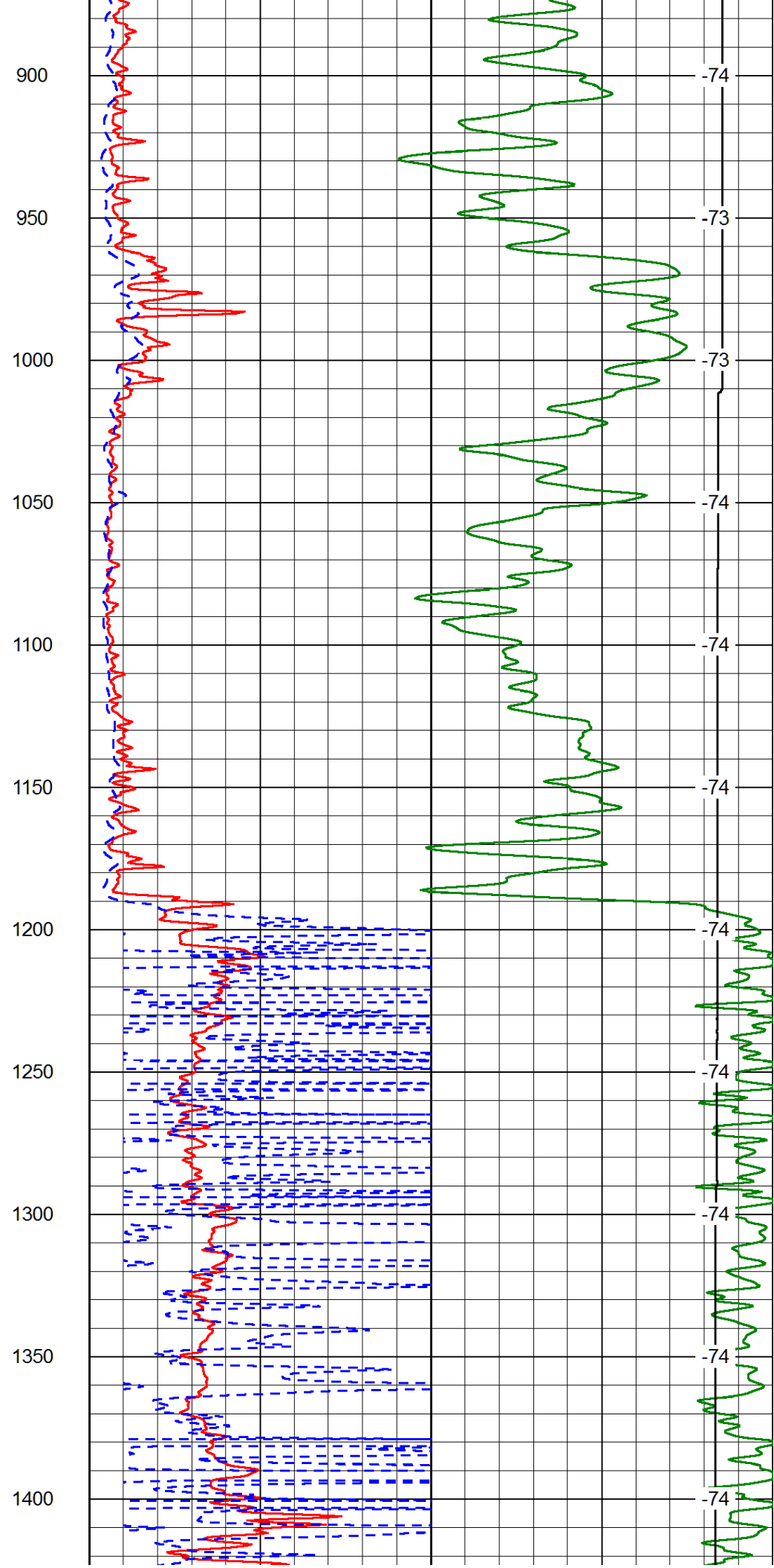
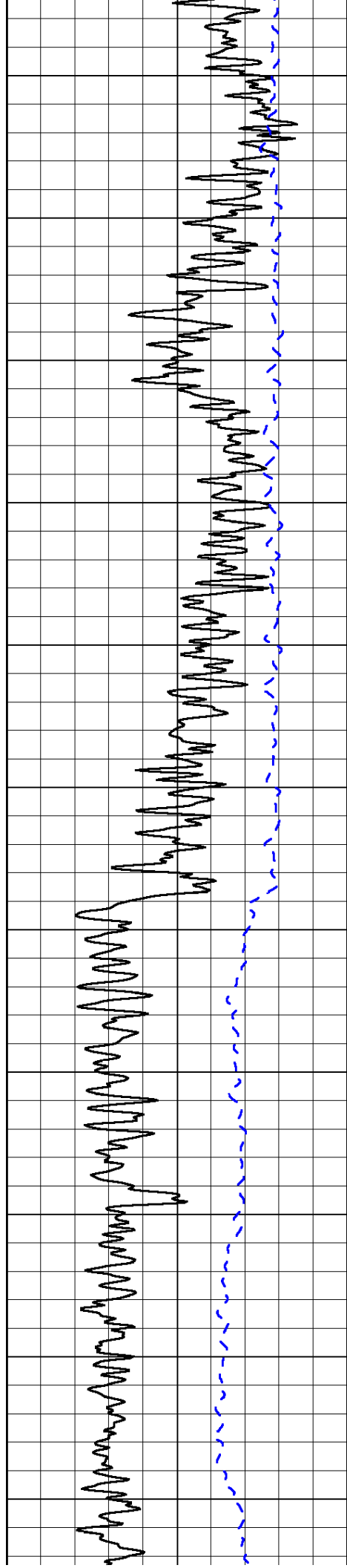
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Presentation Format: dil2in
Dataset Creation: Thu Dec 18 23:55:13 2014
Charted by: Depth in Feet scaled 1:600

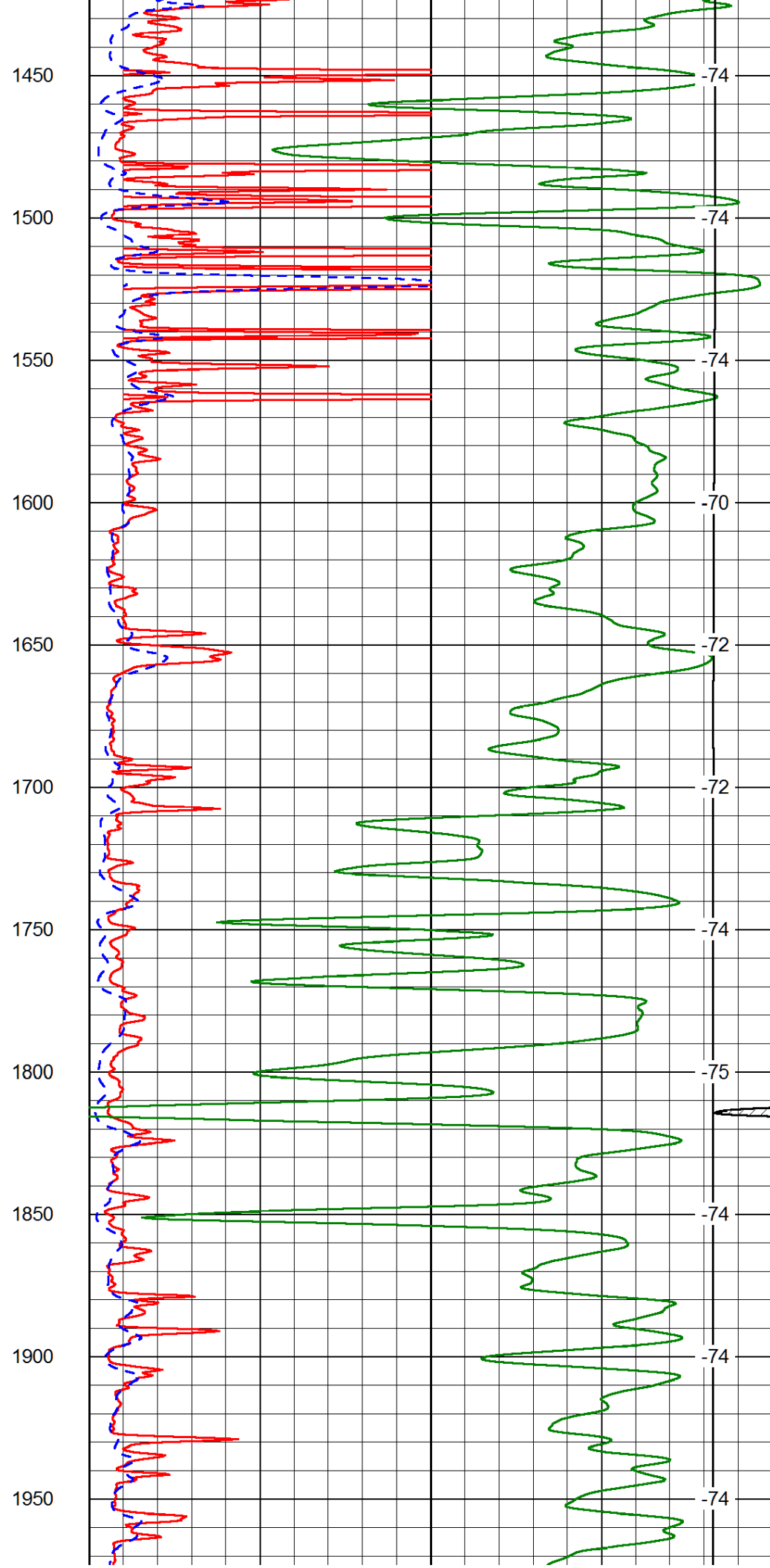
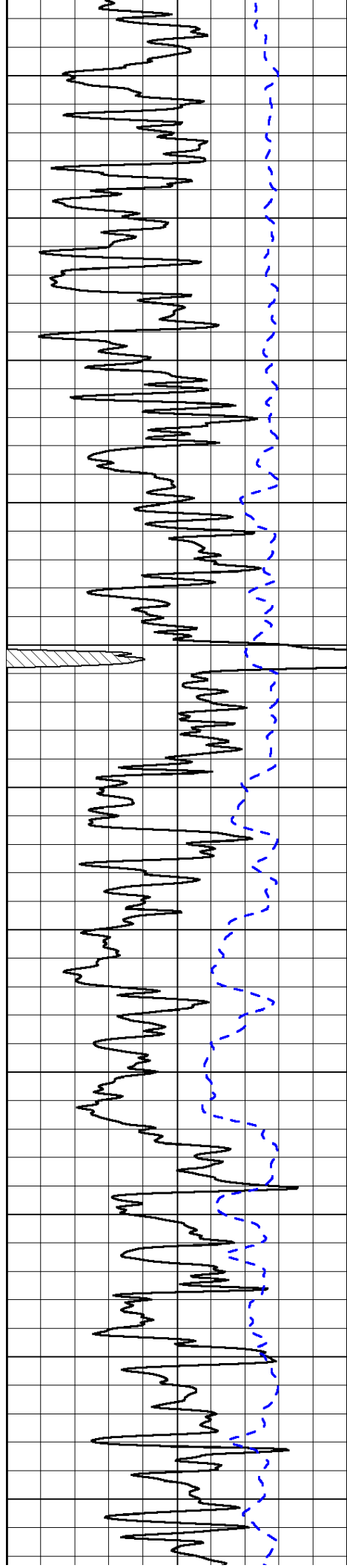
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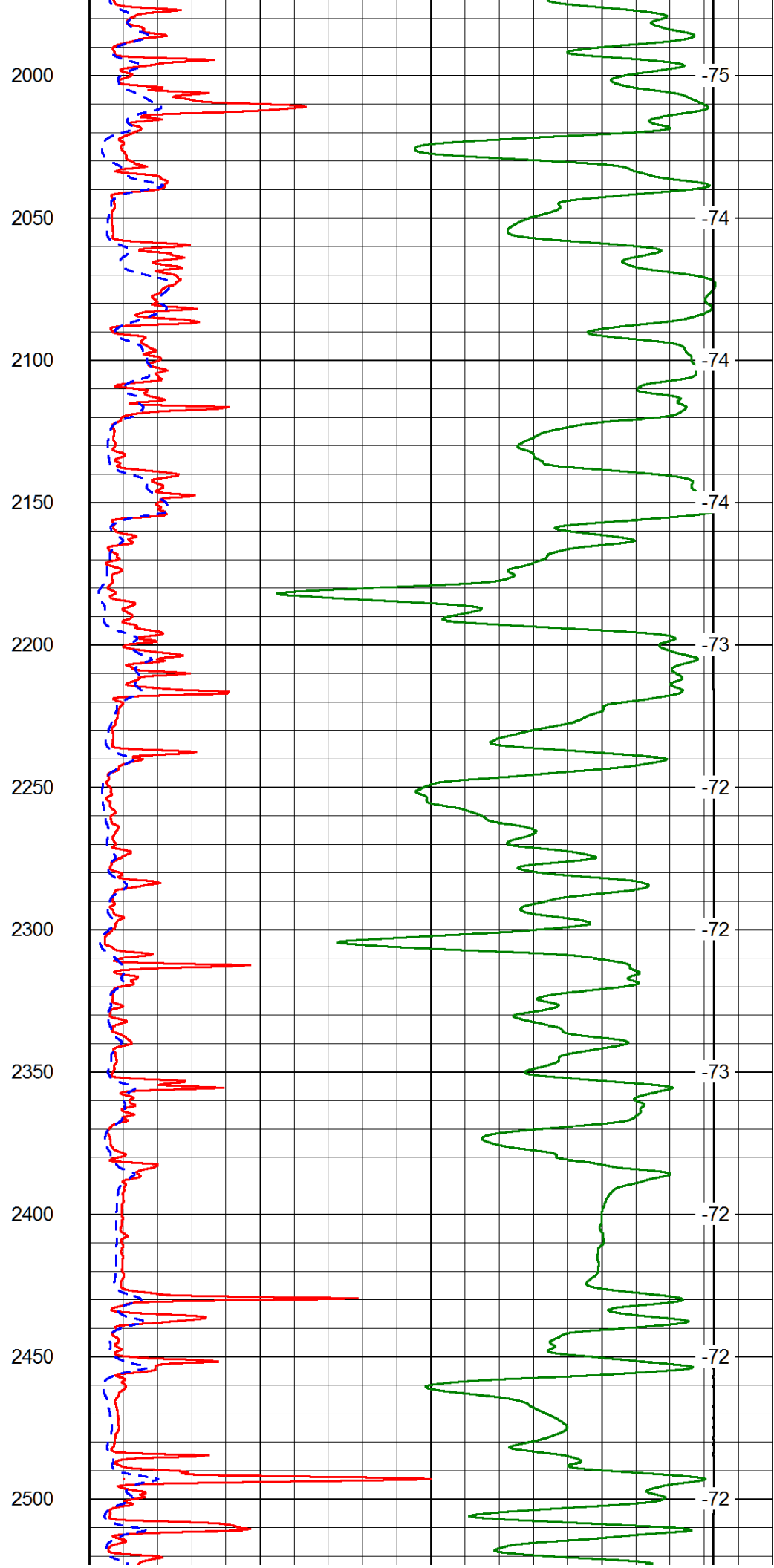
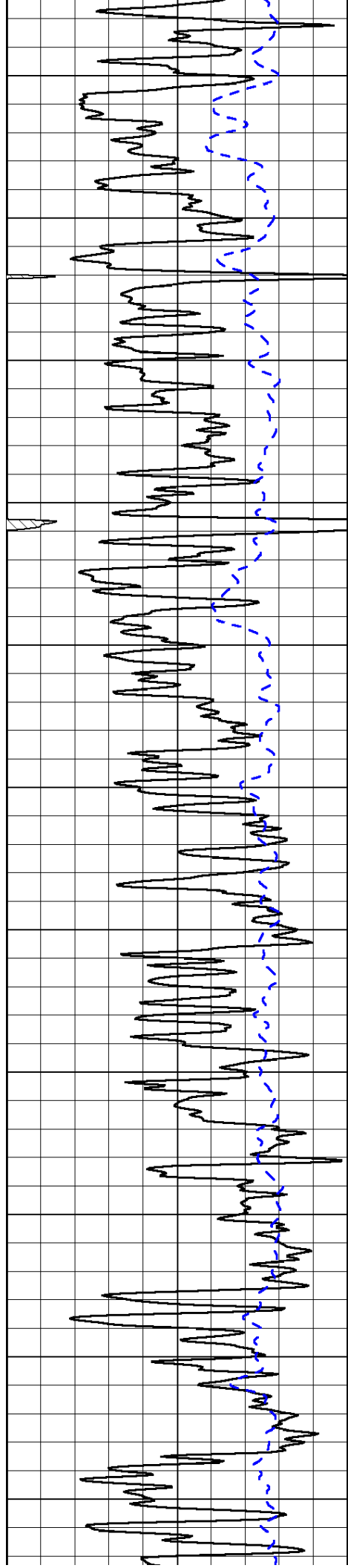
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0	Deep Resistivity	50
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15000	Line Tension	0
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50	Deep Resistivity	500

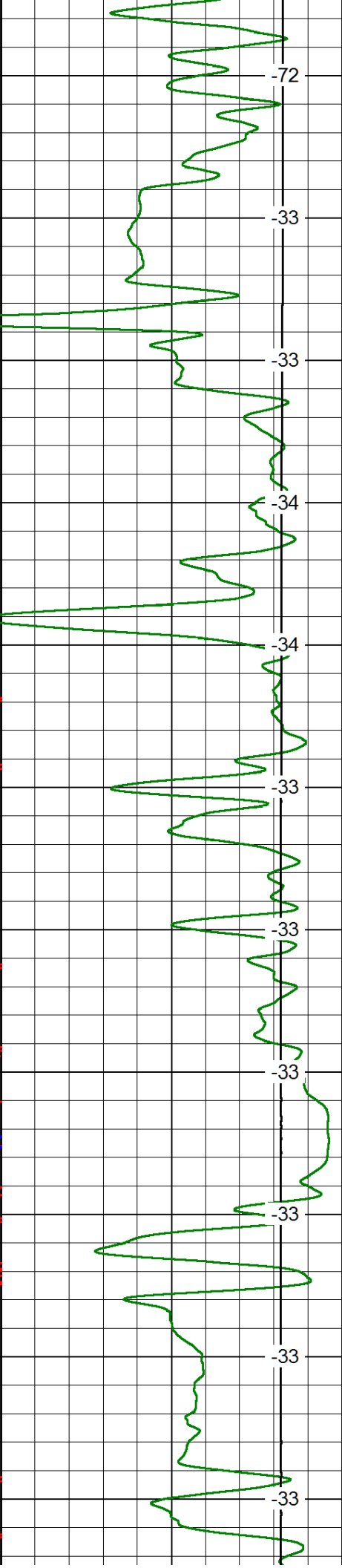
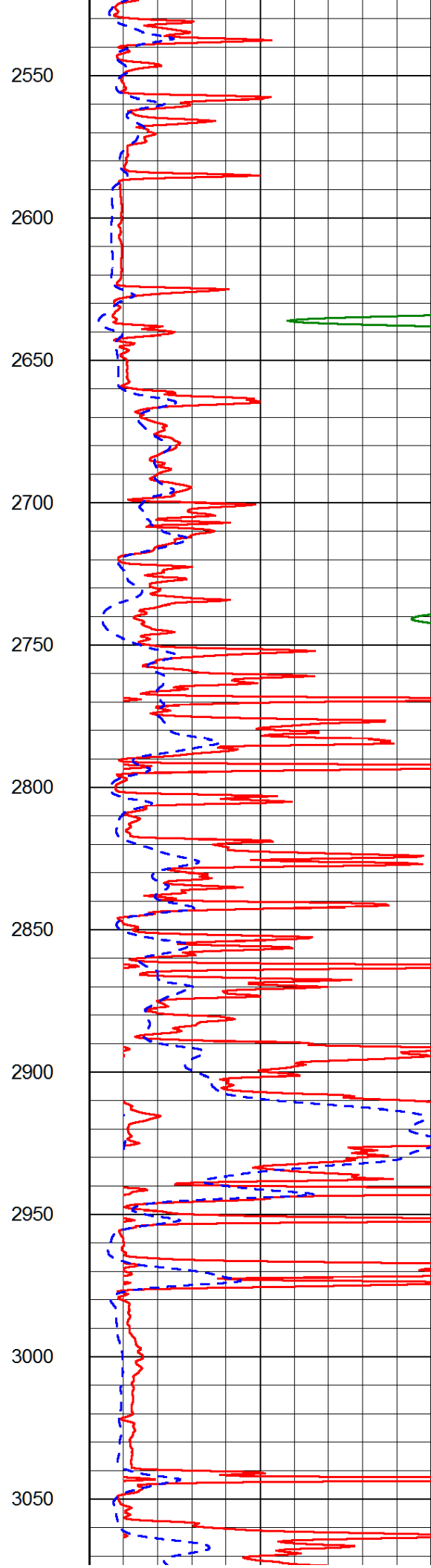
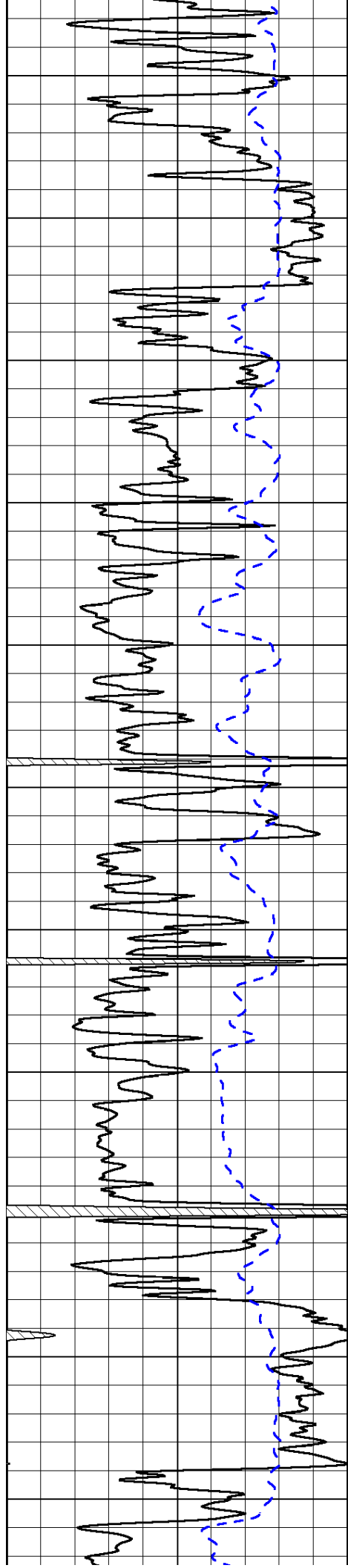
LSPD

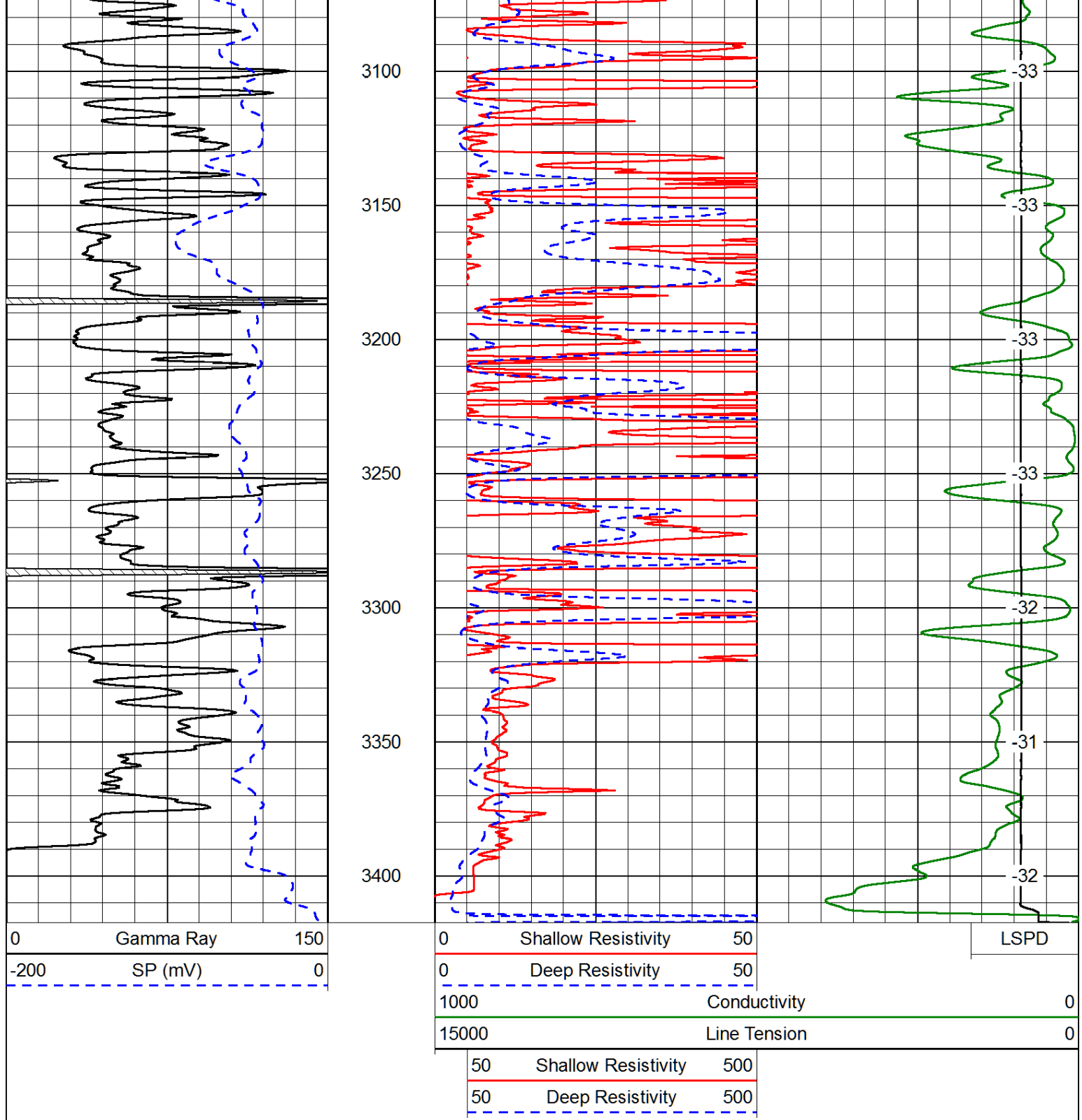




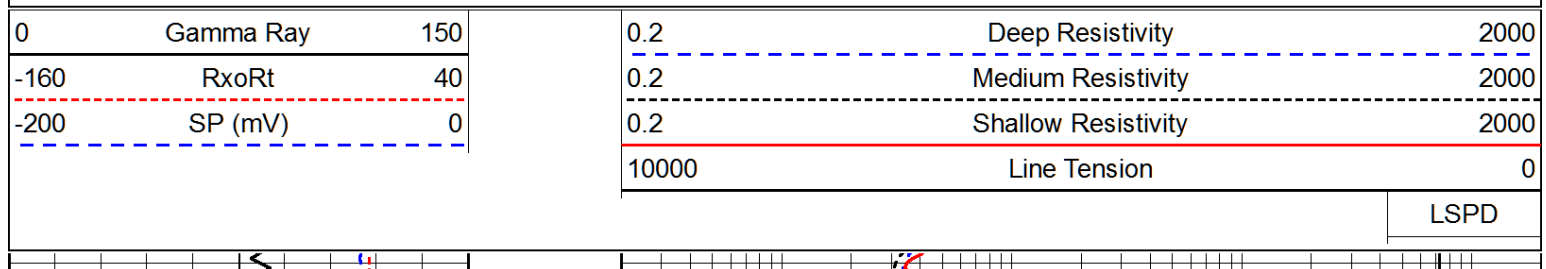


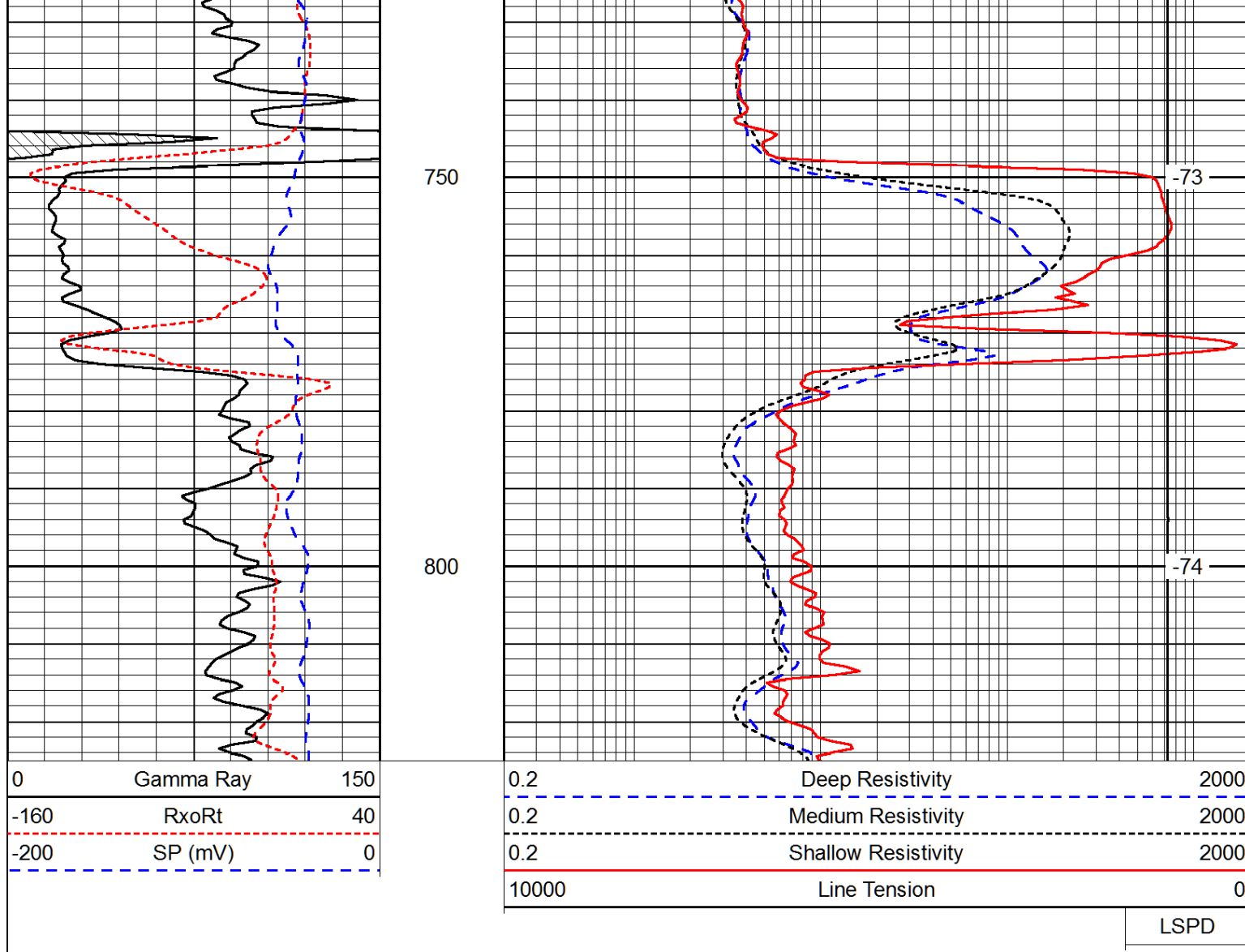




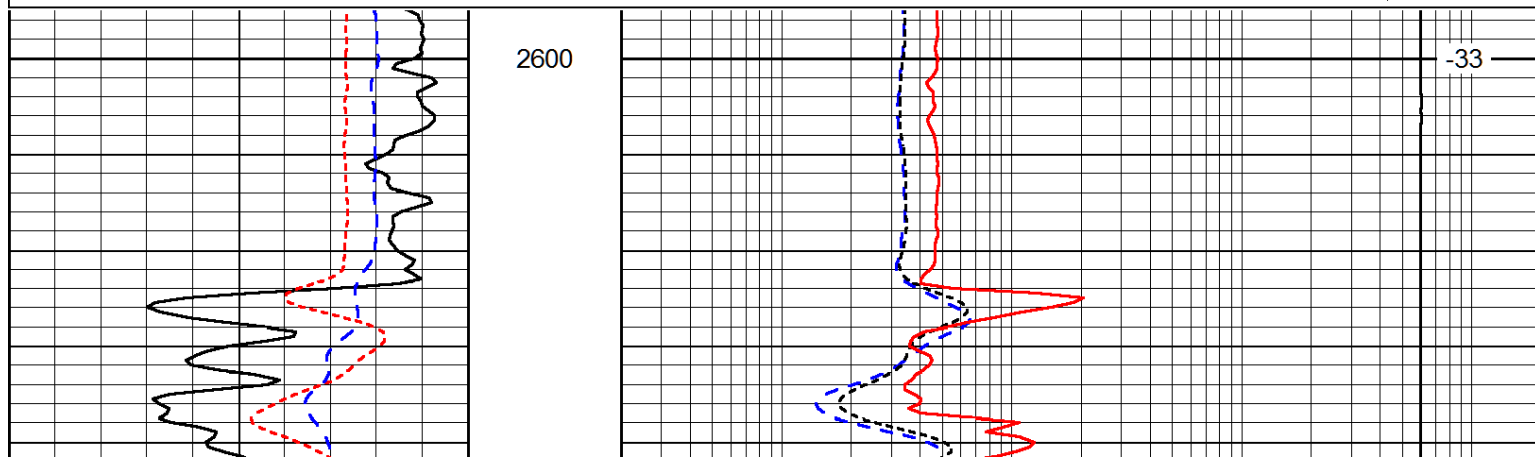
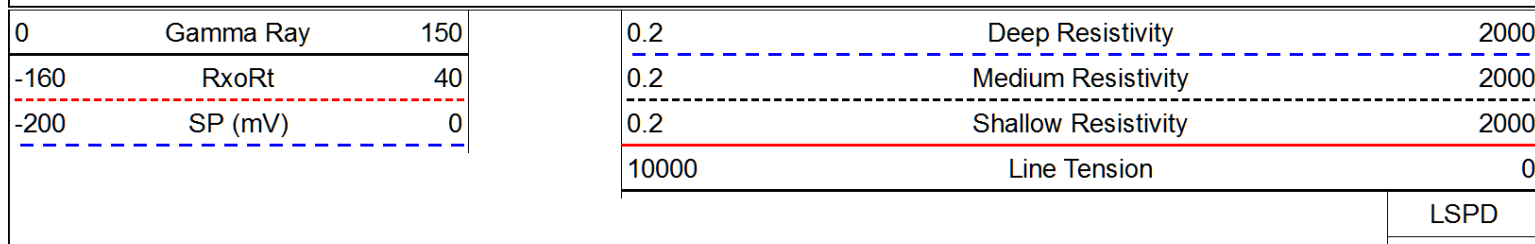


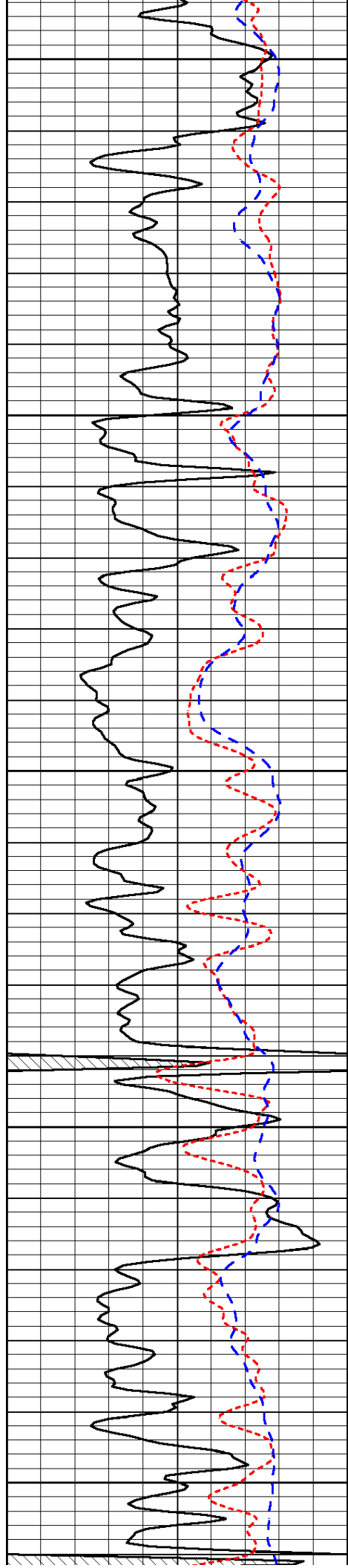
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Dataset Pathname: dil/tommain
Presentation Format: dil
Dataset Creation: Thu Dec 18 23:55:13 2014
Charted by: Depth in Feet scaled 1:240





Database File: tomlinson_hhd.db
Dataset Pathname: dil/tommain
Presentation Format: dil
Dataset Creation: Thu Dec 18 23:55:13 2014
Charted by: Depth in Feet scaled 1:240





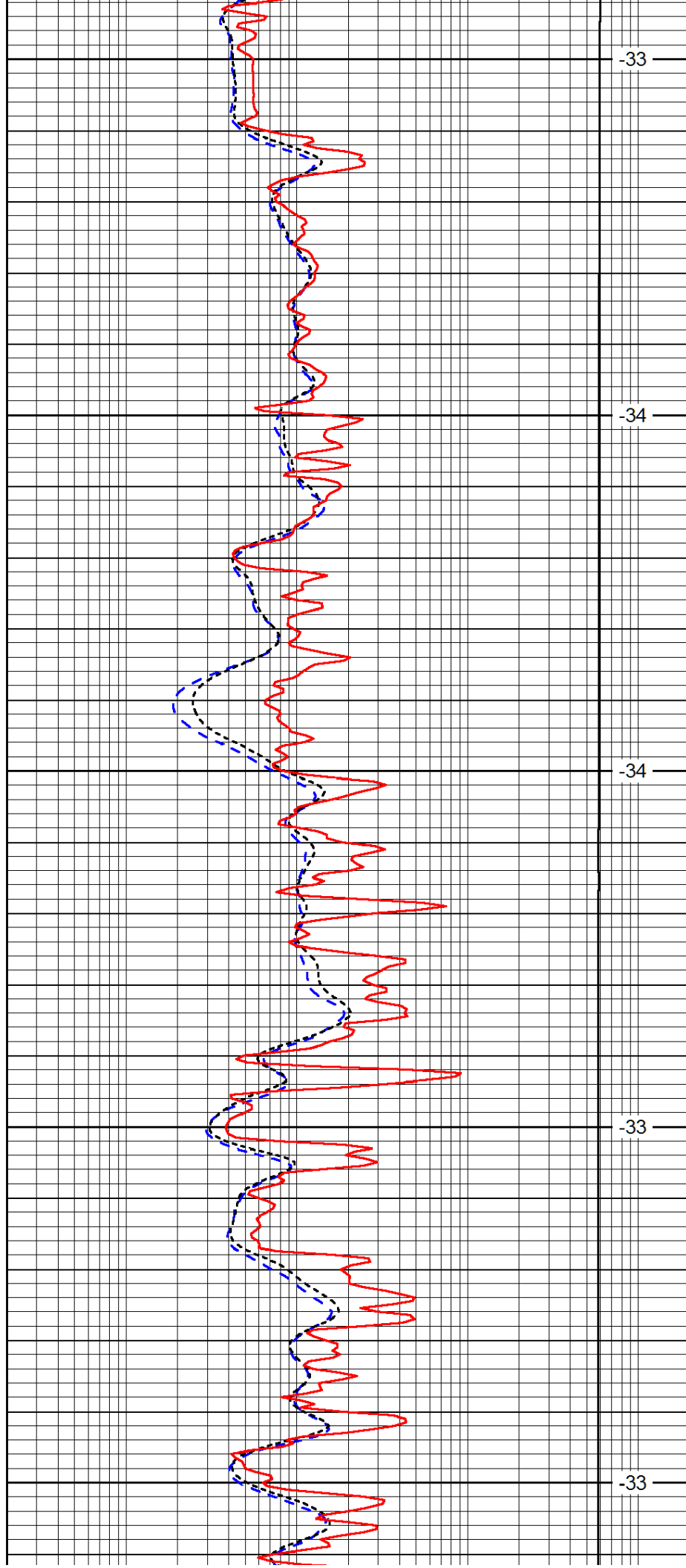
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2700

2750

2800

2850



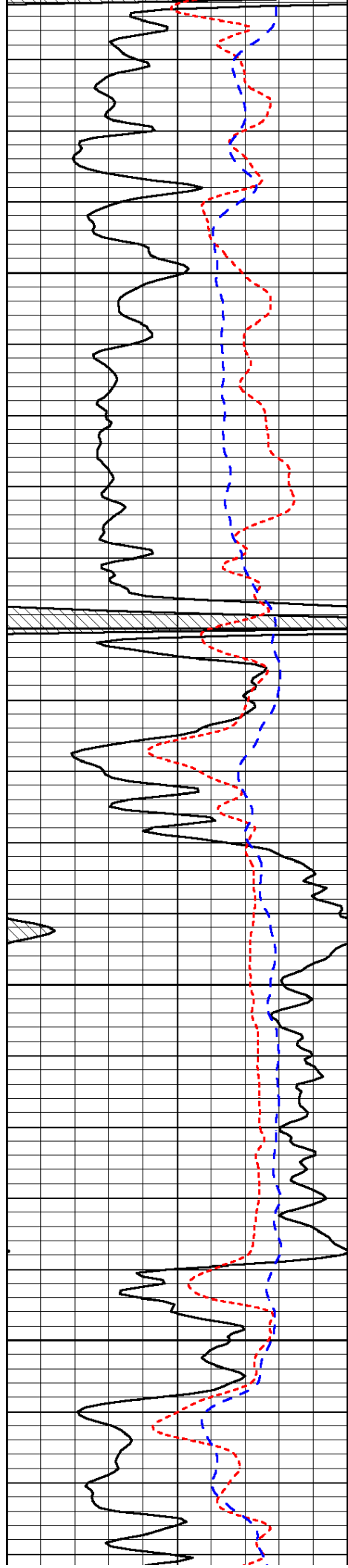
-33

-34

-34

-33

-33

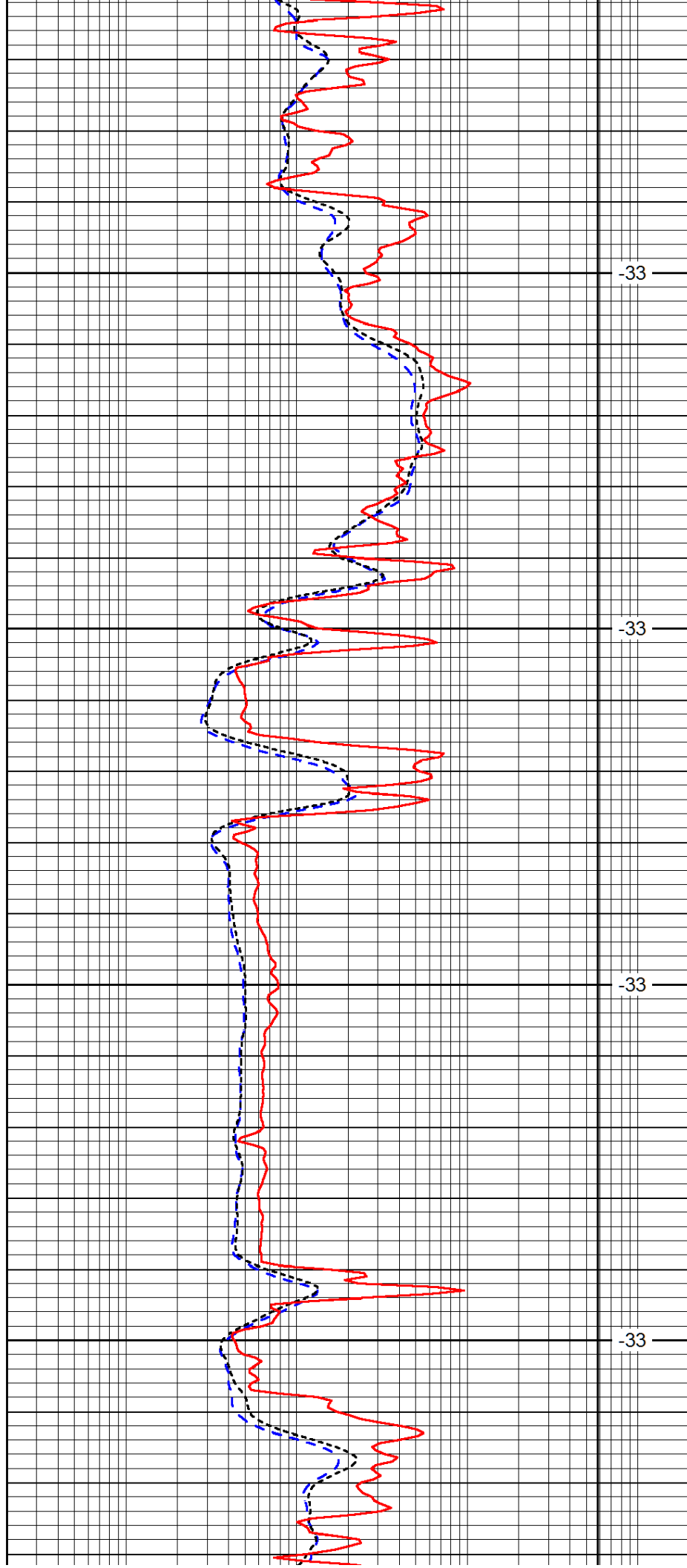


2900

2950

3000

3050

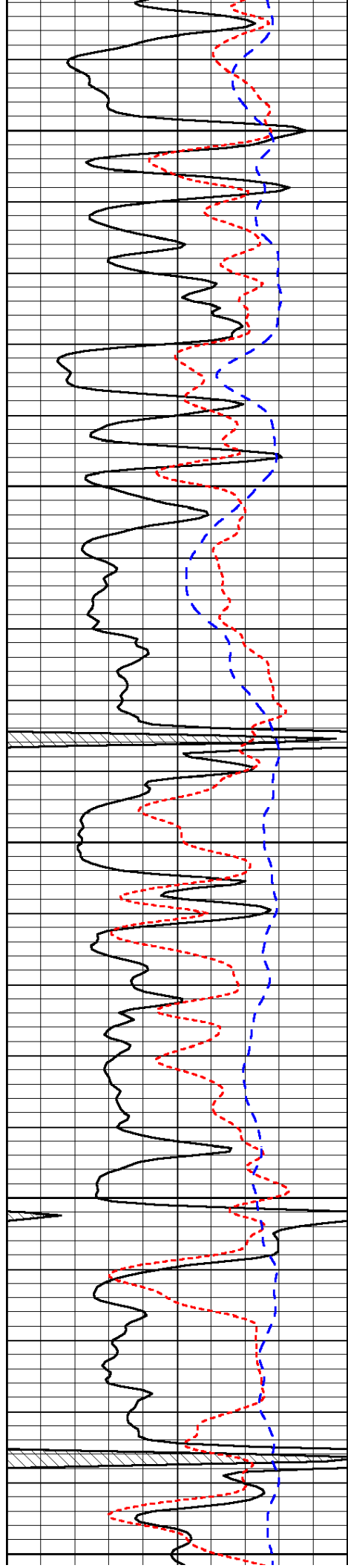


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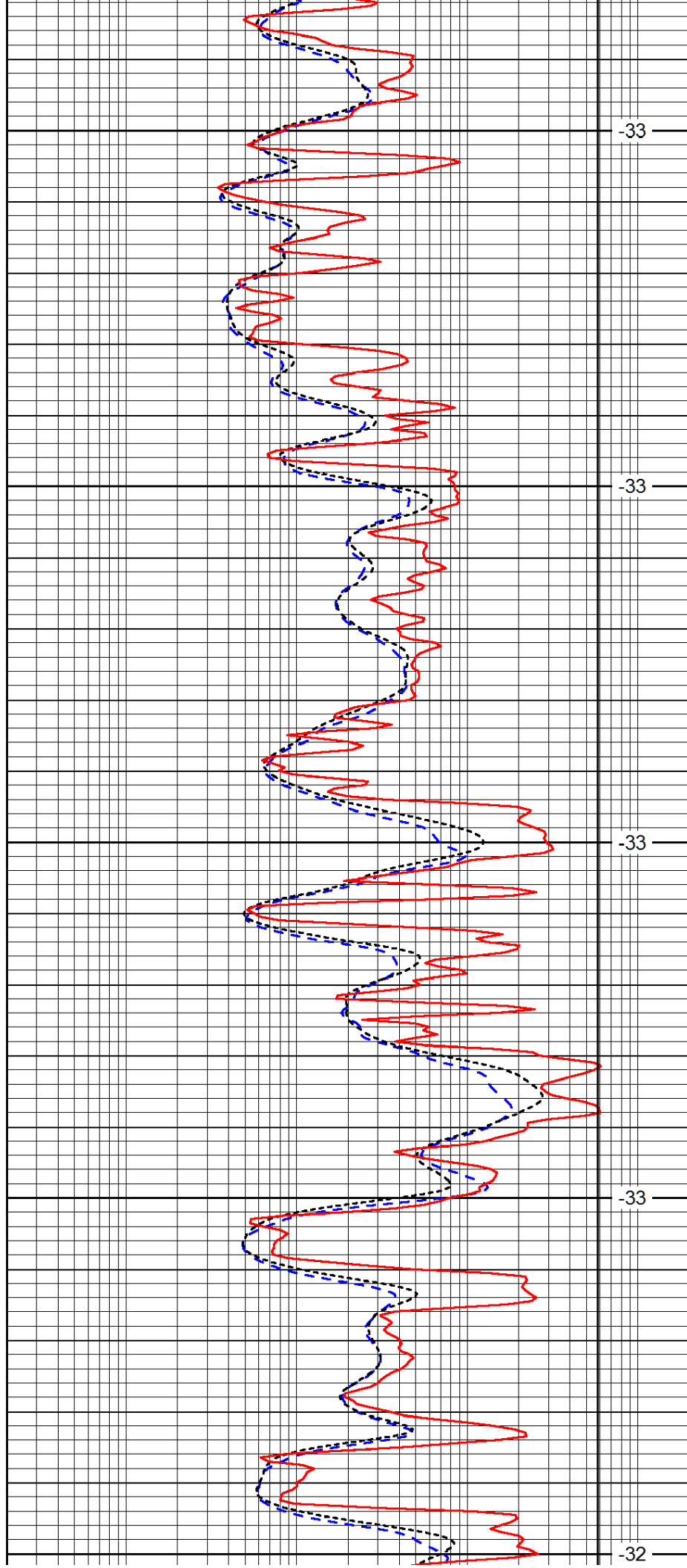
3100

3150

3200

3250

3300



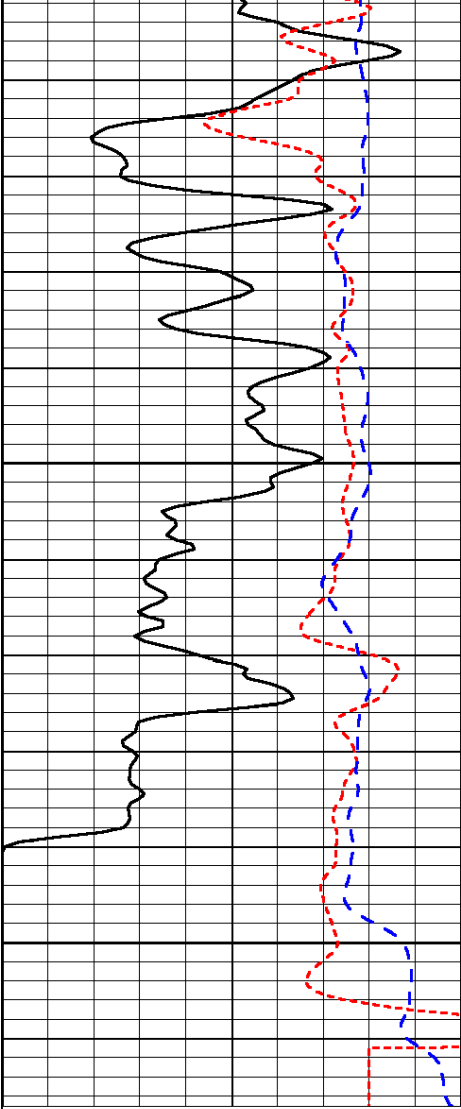
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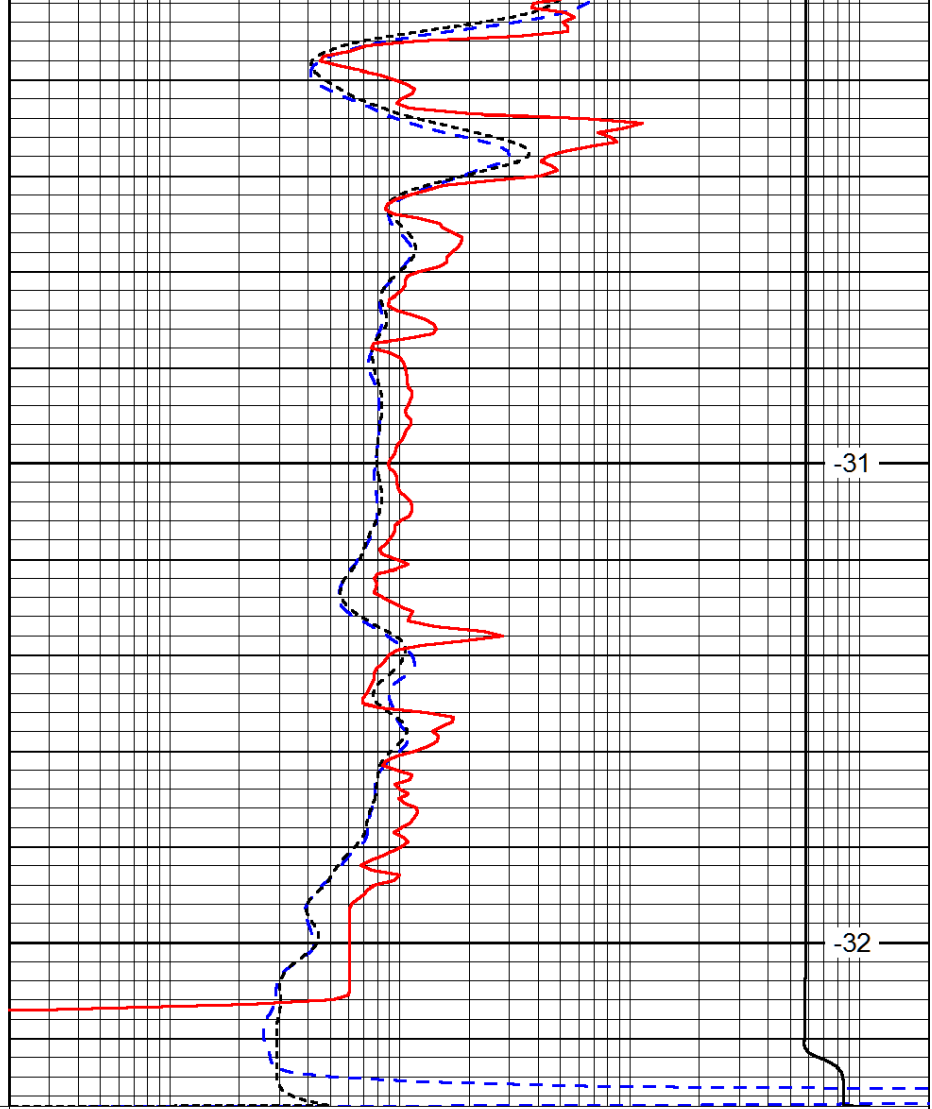
-32



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

3350

3400



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

-31

-32

LSPD