



Pioneer Energy Services

Dual Induction Log

15-163-24,142-00-00

API No.

Company **Zinszer Oil Co.**

Well **McClellan # 2**

Field **Webster**

County **Rooks** State

Kansas

Location **1320' FNL & 2310' FEL**

Sec: **4** Twp: **9S** Rge: **19W**

Permanent Datum **Ground Level** Elevation **1993**

Log Measured From **Kelly Bushing** **8** Ft. Above Perm. Datum

Drilling Measured From **Kelly Bushing**

Other Services

CNL/CDL
MEL

Date **8/21/2013**

Run Number **One**

Depth Driller **3430**

Depth Logger **3432**

Bottom Logged Interval **3431**

Top Log Interval **1400**

Casing Driller **8.625 @ 1425**

Casing Logger **1426**

Bit Size **7.875**

Type Fluid in Hole **Chemical**

Salinity,ppm CL **3000**

Density / Viscosity **9.2 55**

pH / Fluid Loss **10.0 8.8**

Source of Sample **Flowline**

Rm @ Meas. Temp **.37 @ 78**

Rmf @ Meas. Temp **.28 @ 78**

Rmc @ Meas. Temp **.50 @ 78**

Source of Rmf / Rmc **Charts**

Rm @ BHT **.26 @ 110**

Operating Rig Time **3 1/2 Hours**

Max Rec. Temp. F **110**

Equipment Number **15**

Location **Hays**

Recorded By **J. Hennickson**

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

Thank you for using Pioneer Energy Services
www.pioneerenergy.com
785 625 3858

Zurich Kansas
5 North, 1/2 West, South Into

Database File: c:\warrior\data\zinszer_mcclellan # 2\zinszer_mcclellan_2hd.db
Dataset Pathname: DIL/zinstk
Presentation Format: dil2in
Dataset Creation: Wed Aug 21 21:09:49 2013
Charted by: Depth in Feet scaled 1:600

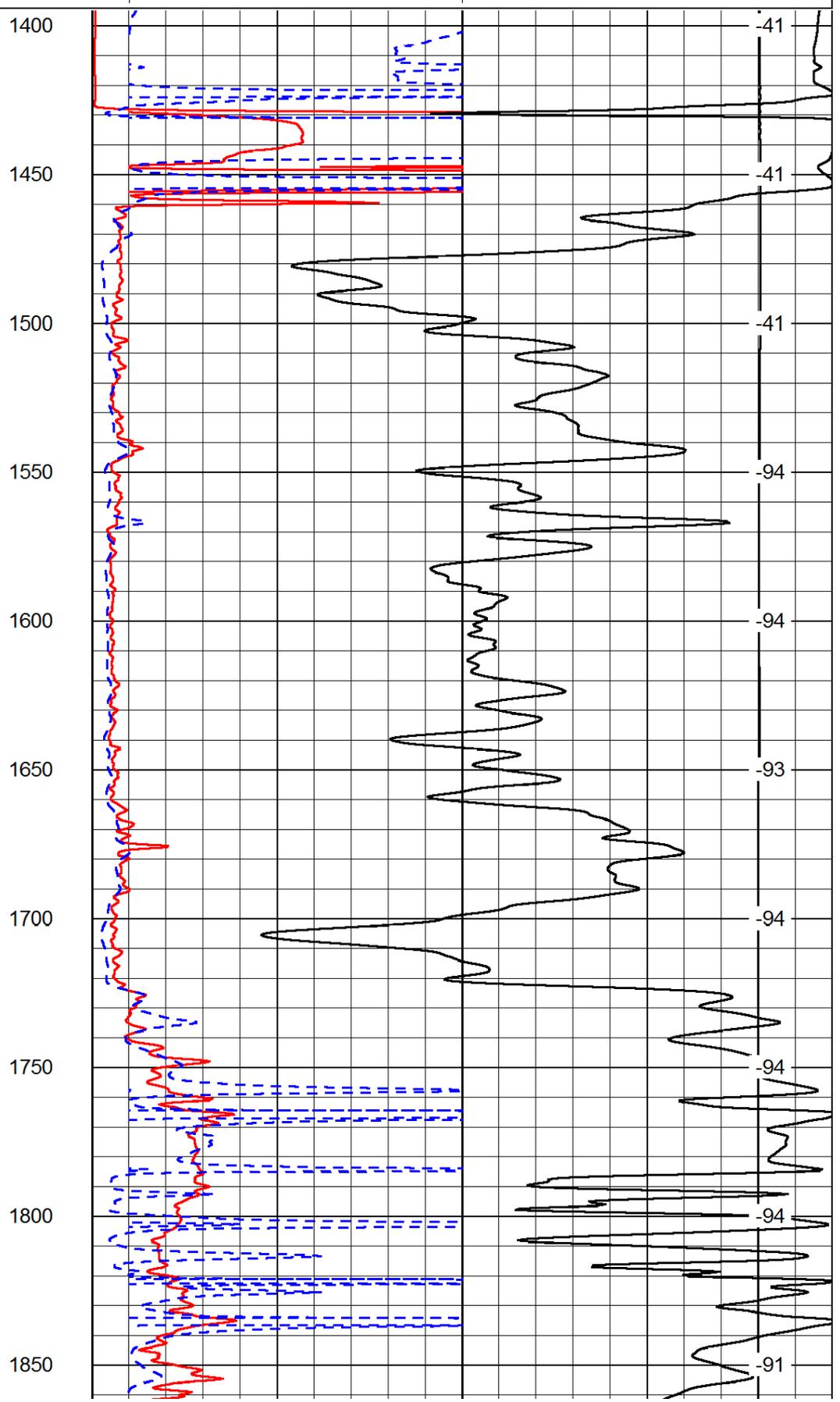
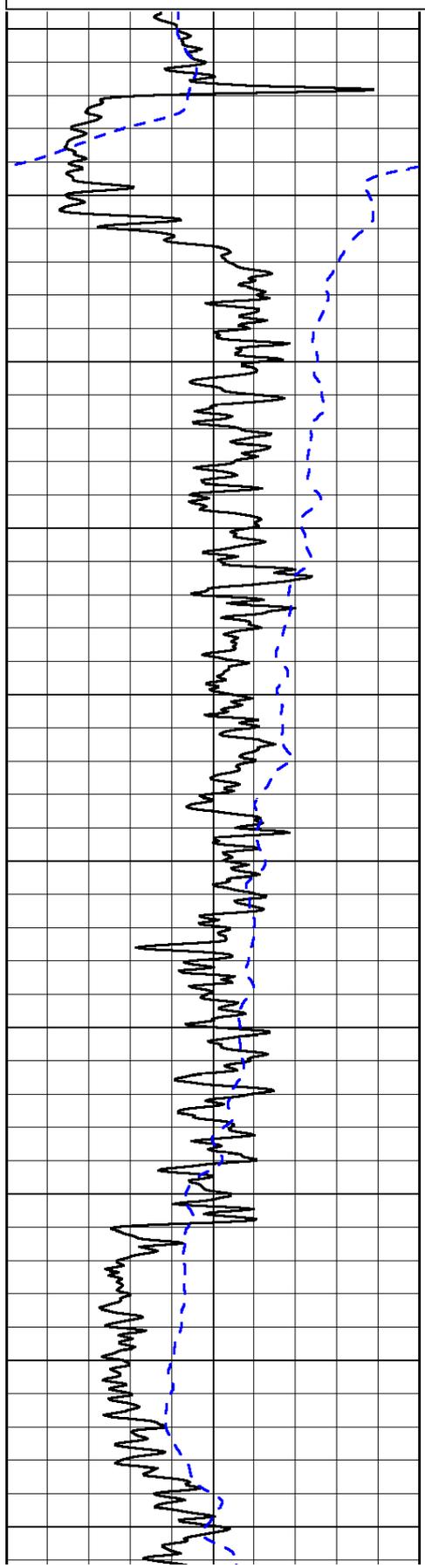
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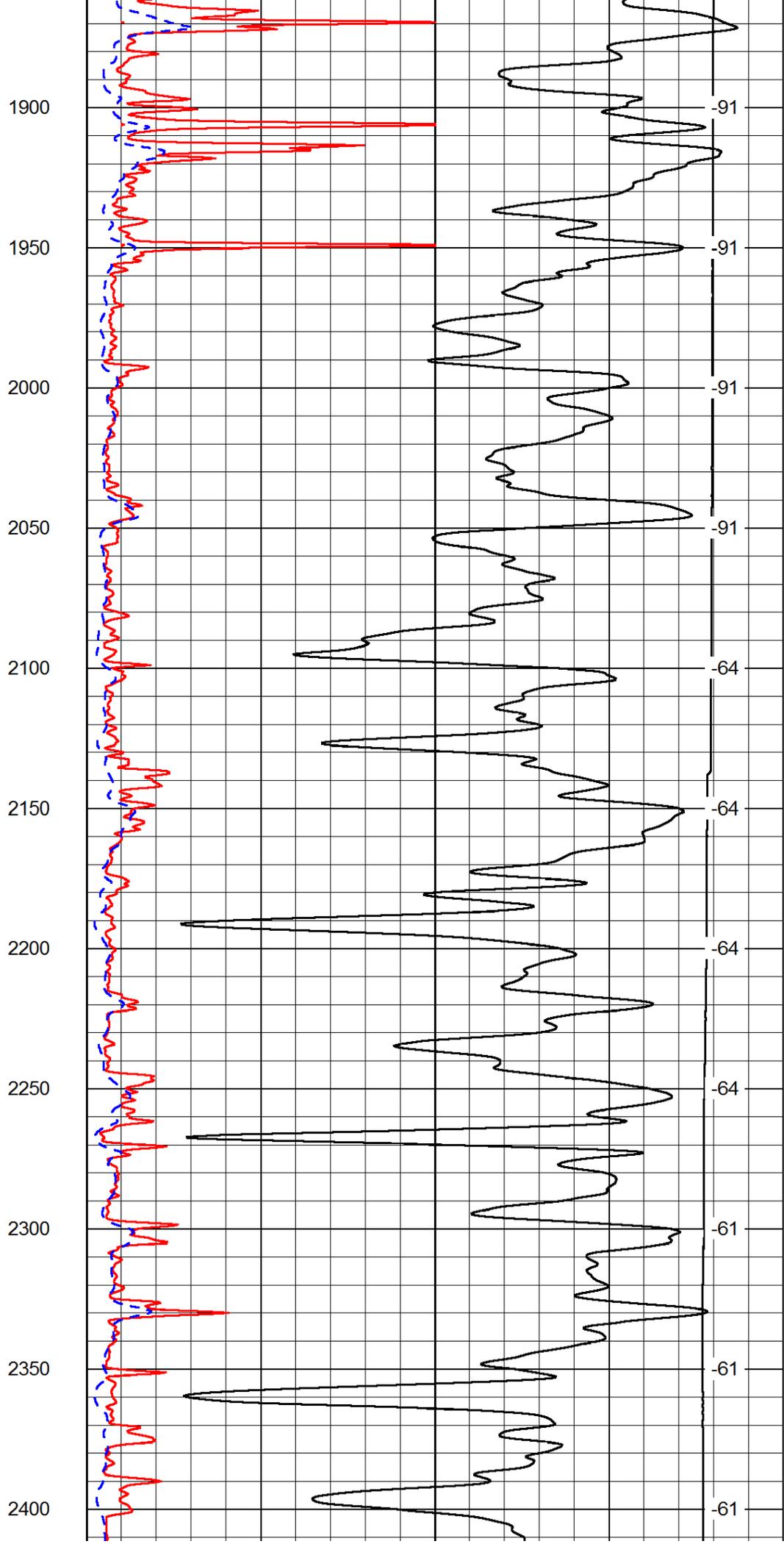
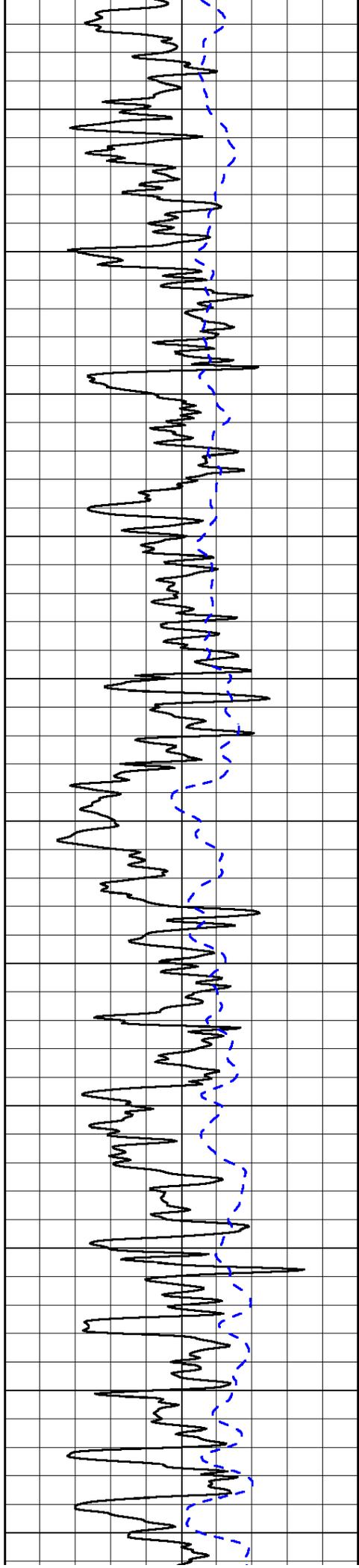
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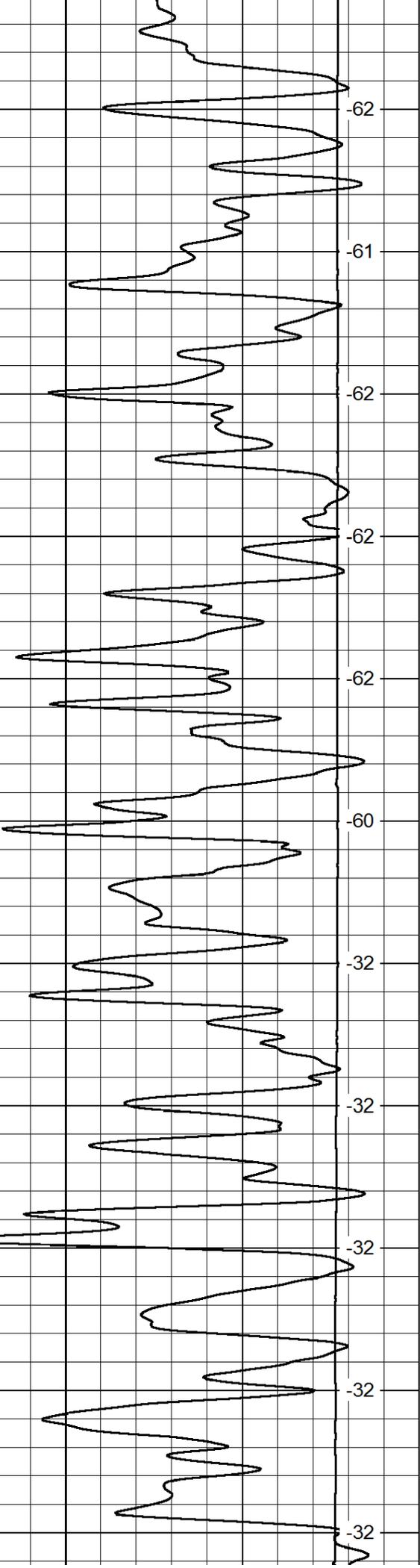
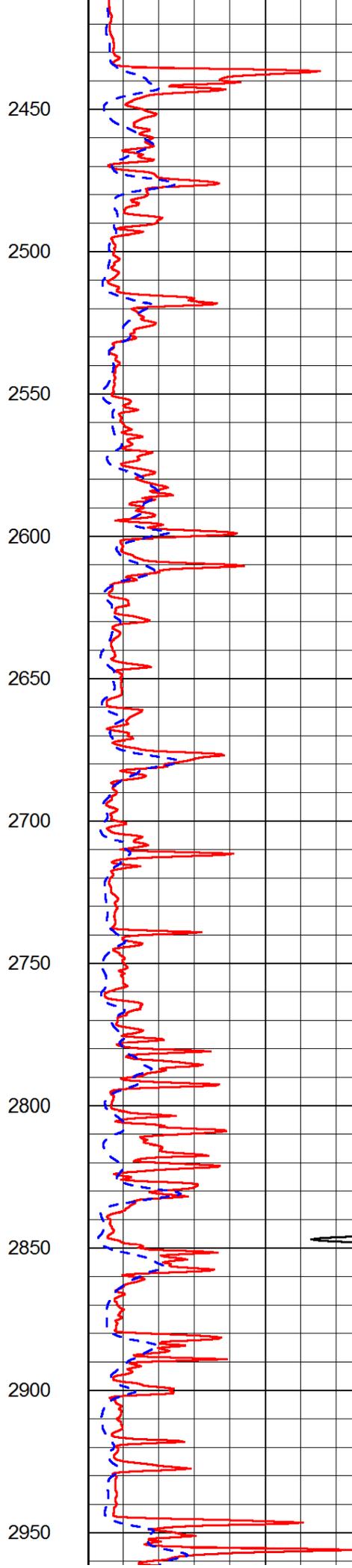
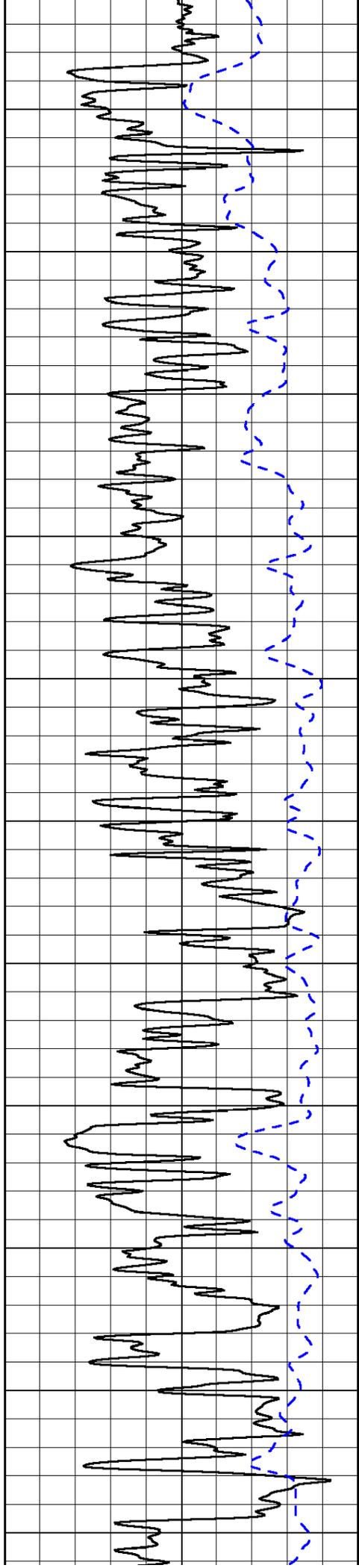
LSPD

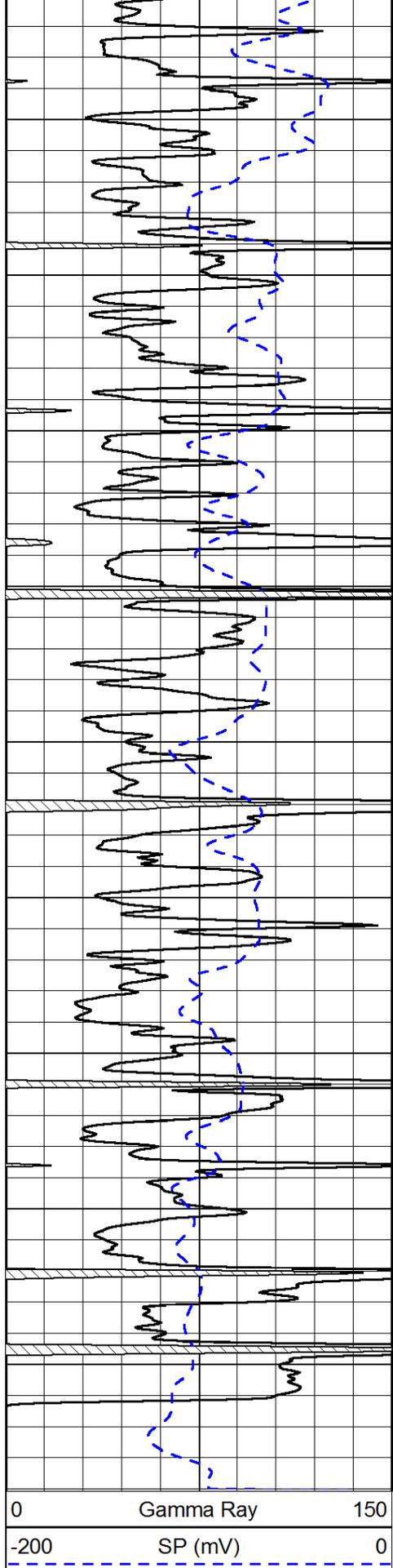
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15000	Line Tension	0

50	Shallow Resistivity	500
50	Deep Resistivity	500

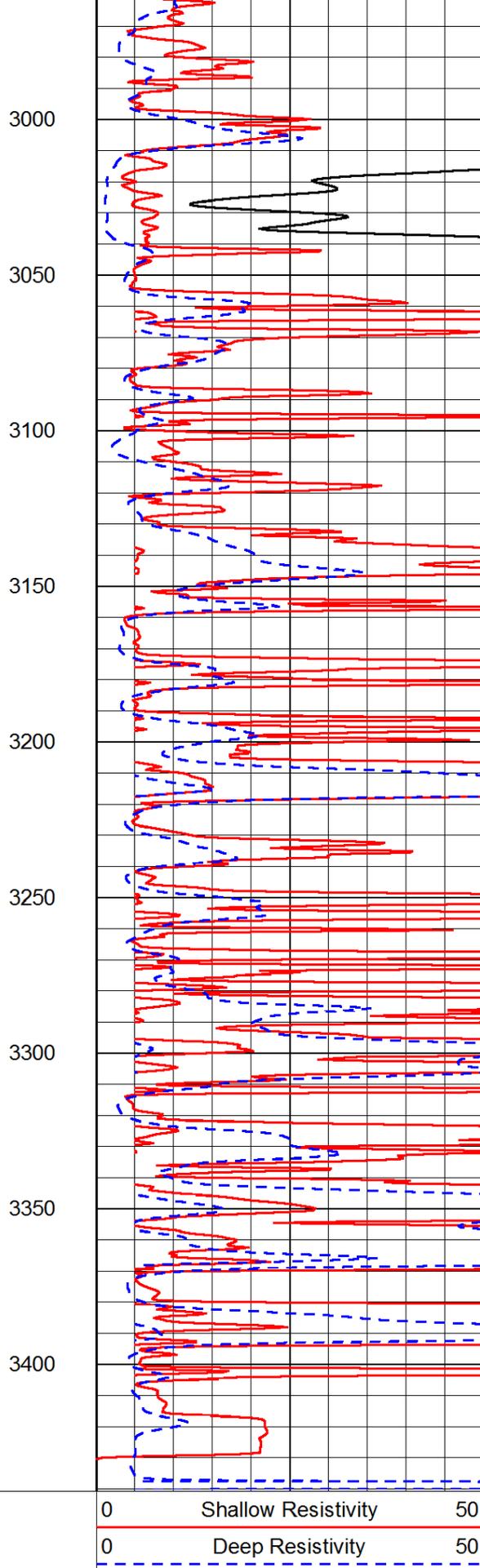




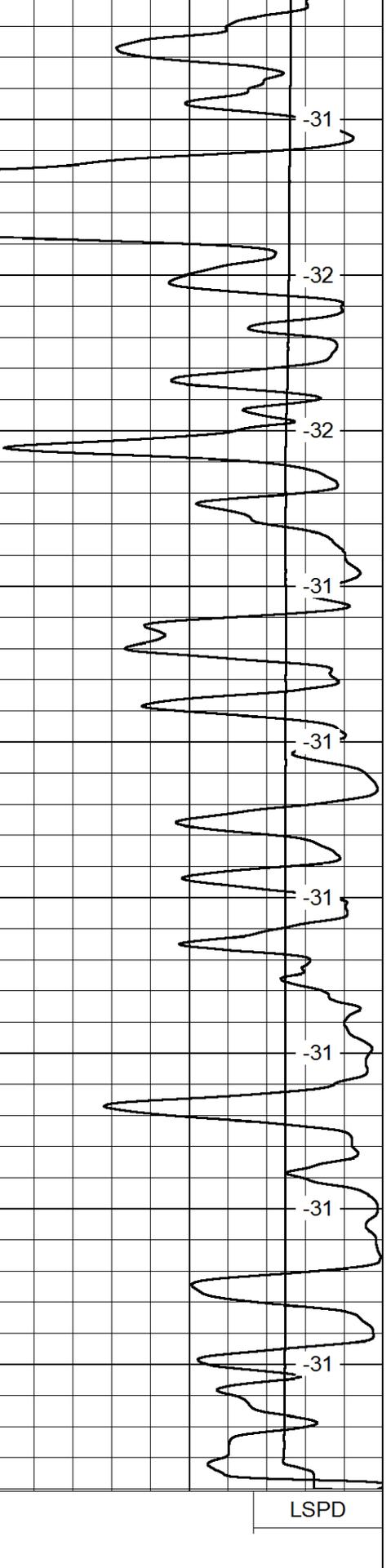




0 Gamma Ray 150
 -200 SP (mV) 0



0 Shallow Resistivity 50
 0 Deep Resistivity 50



1000 Conductivity 0
 15000 Line Tension 0

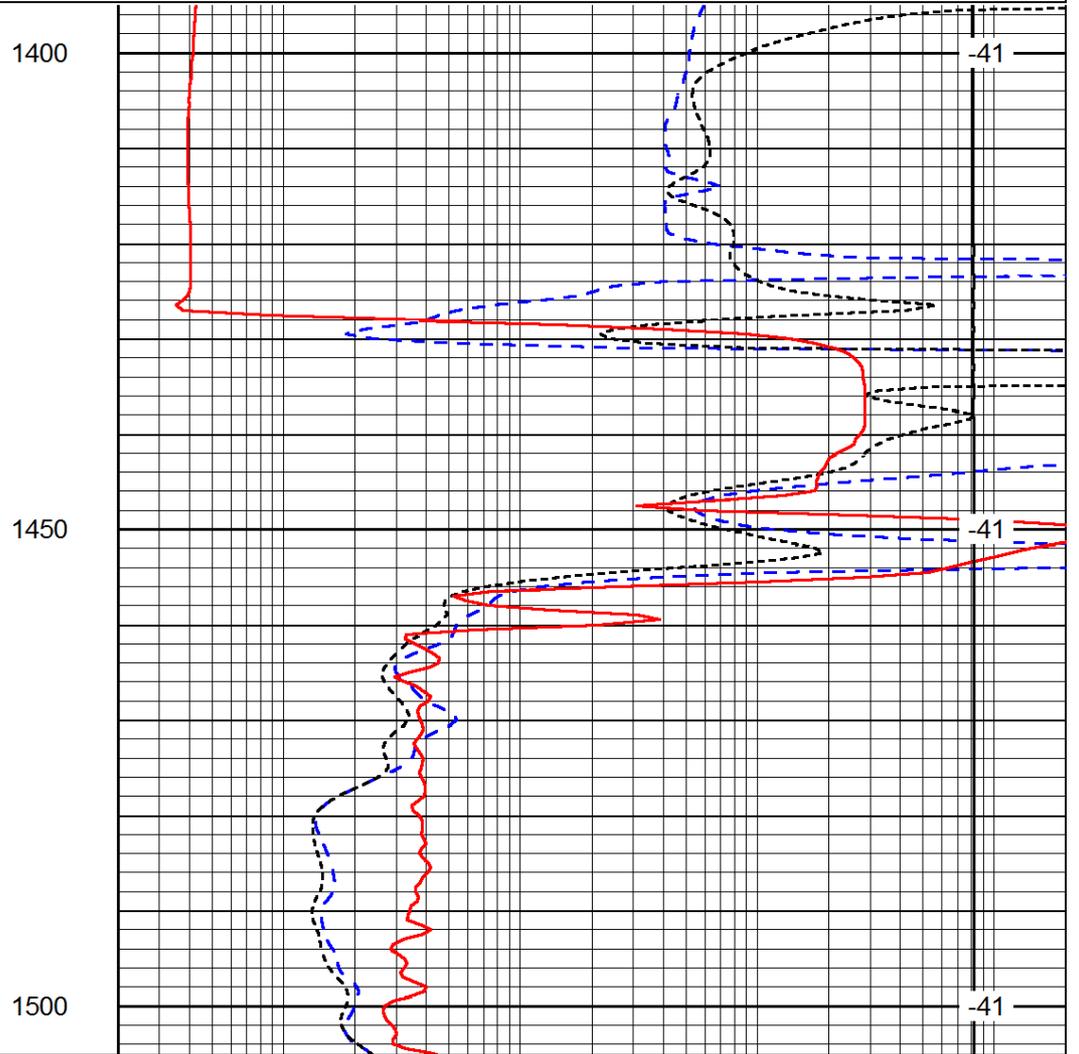
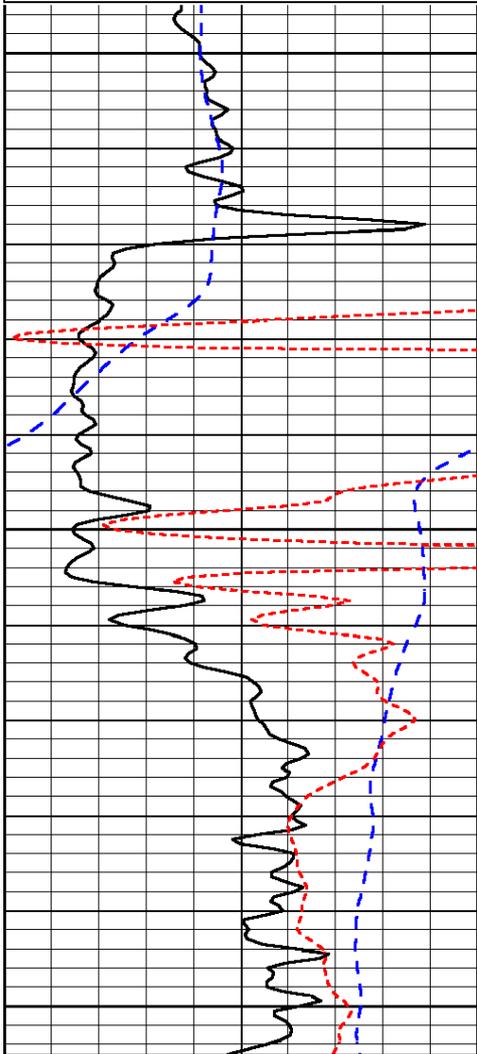
50 Shallow Resistivity 500
 50 Deep Resistivity 500

Database File: c:\warrior\data\zinszer_mcclellan # 2\zinszer_mcclellan_2hd.db
 Dataset Pathname: DIL/zinstk
 Presentation Format: dil
 Dataset Creation: Wed Aug 21 21:09:49 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



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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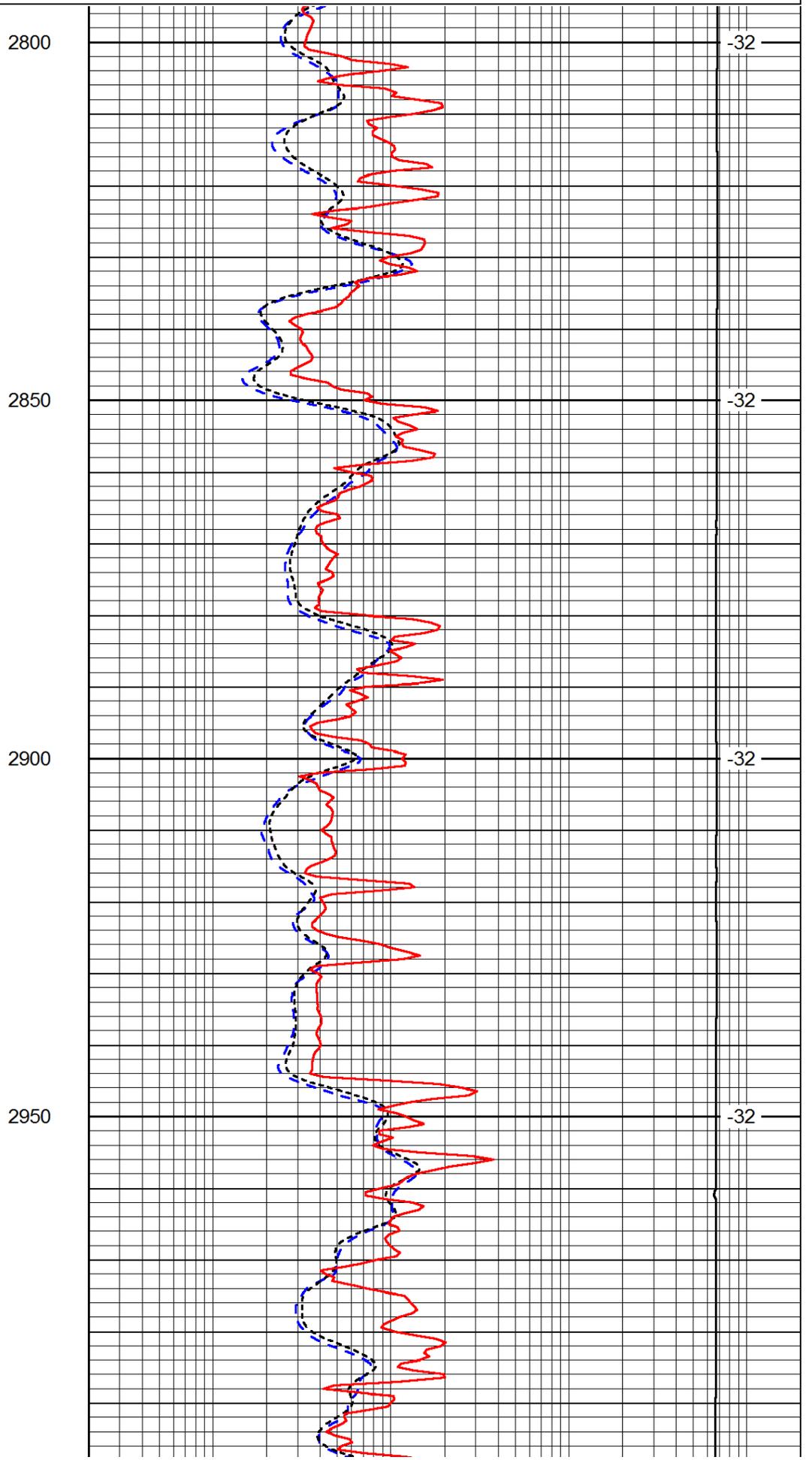
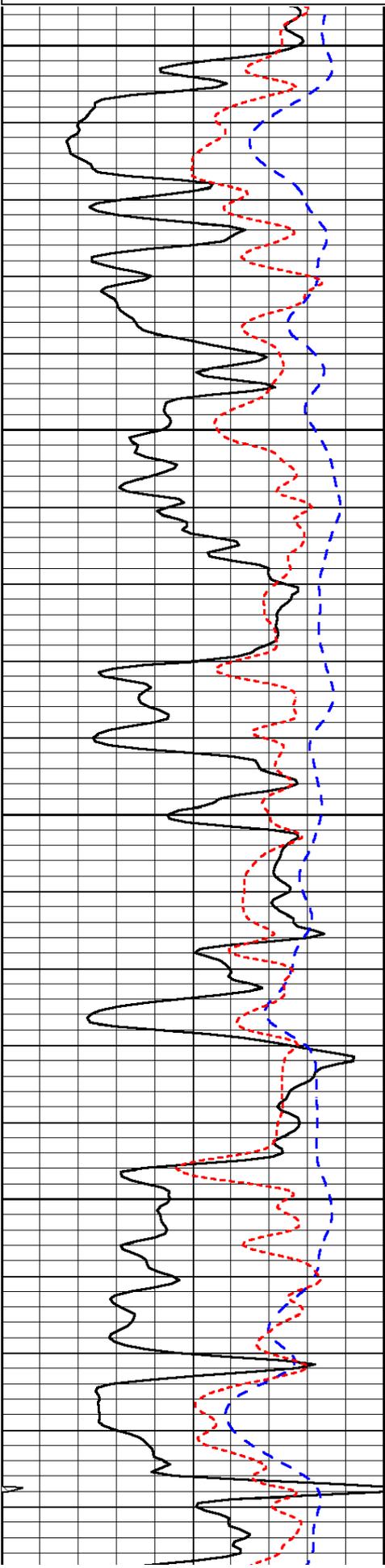
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-200	SP (mV)	0

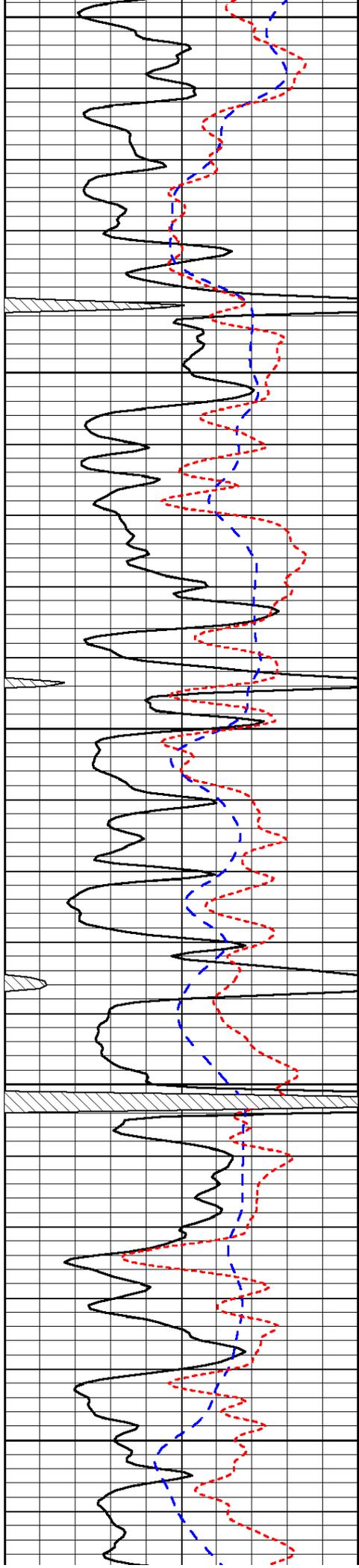
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0.2	Medium Resistivity	2000

-160 RxoRt 40

0.2 Shallow Resistivity 2000
15000 Line Tension 0

LSPD





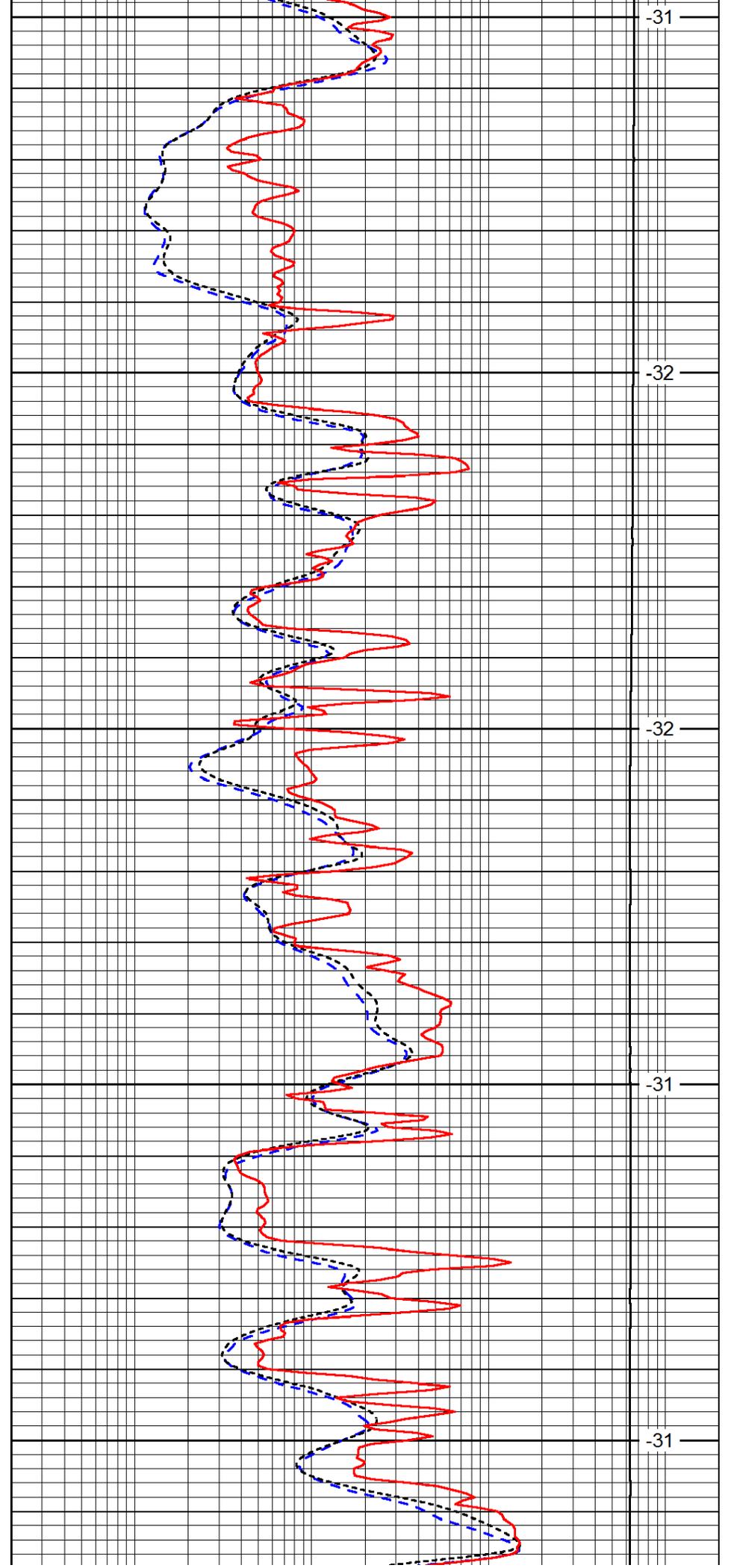
3000

3050

3100

3150

3200



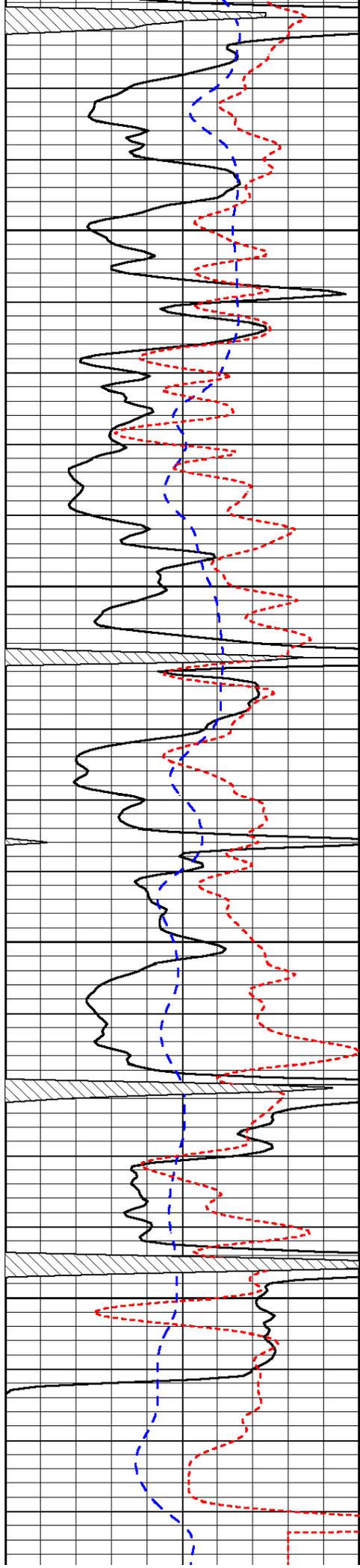
-31

-32

-32

-31

-31

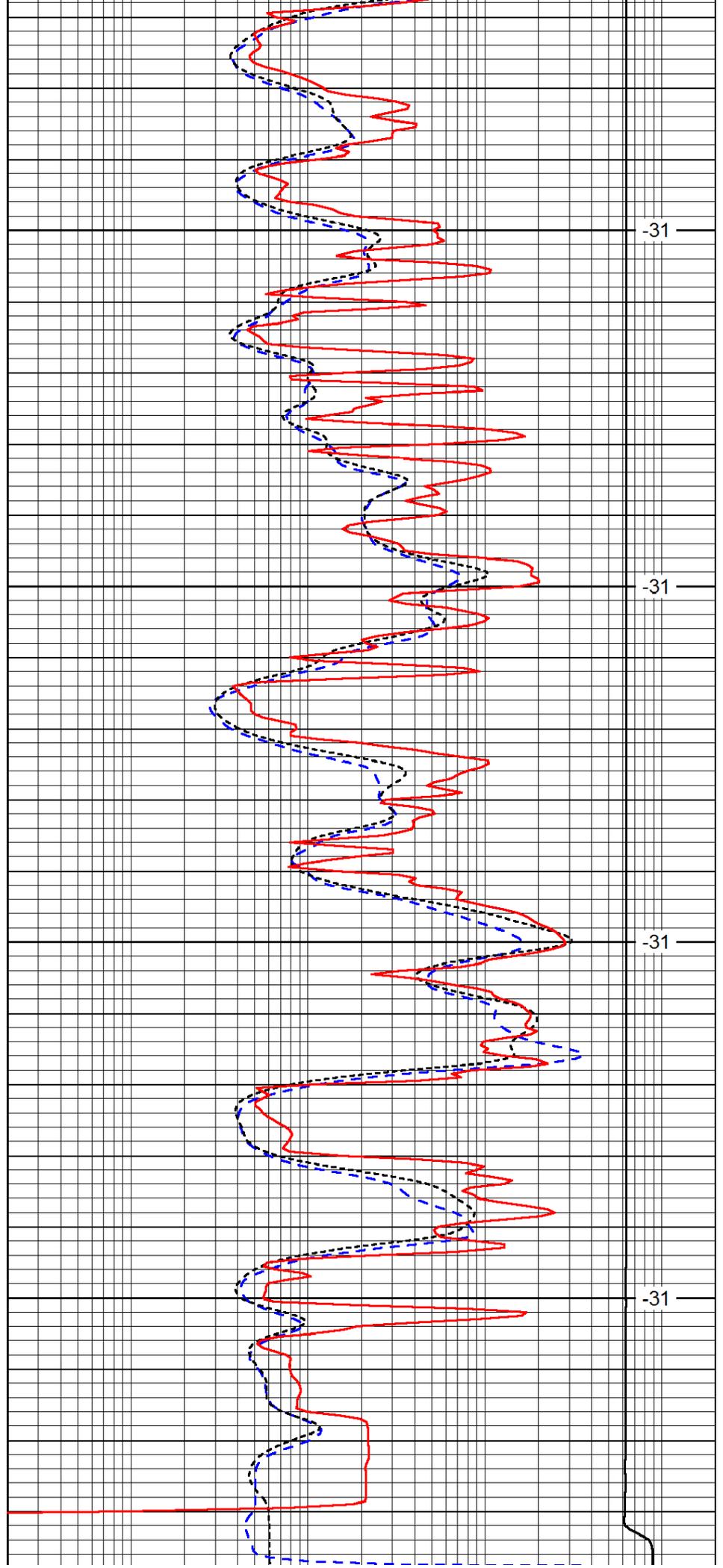


3250

3300

3350

3400



-31

-31

-31

-31

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