



Pioneer Energy Services

Dual Induction Log

API No.	Company TDI, Inc.		
	Well Gross #1		
	Field Martina East		
	County Ellis	State	Kansas
15-051-26,532-00-00	Location	1,165' FNL & 460' FWL	
	Sec: 24	Twp: 15S	Rge: 19W
	Permanent Datum	Ground Level	Elevation 1993
	Log Measured From	Kelly Bushing	10 Ft. Above Perm. Datum
	Drilling Measured From	From Kelly Bushing	K.B. 2003 D.F. 1993 G.L. 1993
Date	6/13/2013		
Run Number	One		
Depth Driller	3749		
Depth Logger	3749		
Bottom Logged Interval	3748		
Top Log Interval	1150		
Casing Driller	8.625 @ 1197		
Casing Logger	1193		
Bit Size	7.875		
Type Fluid in Hole	Chemical		
Salinity, ppm CL	3700		
Density / Viscosity	9.2	53	
pH / Fluid Loss	11.0	7.4	
Source of Sample	Flowline		
Rm @ Meas. Temp	.50 @ 82		
Rmf @ Meas. Temp	.38 @ 82		
Rmc @ Meas. Temp	.68 @ 82		
Source of Rmf / Rmc	Charts		
Rm @ BHT	.36 @ 113		
Operating Rig Time	4 Hours		
Max Rec. Temp. F	113		
Equipment Number	108		
Location	Hays		
Recorded By	J. Long		
Witnessed By	Tom Denning		
	Herb Deines		

<<< 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

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

Antonino, 3 1/8 South, East Into

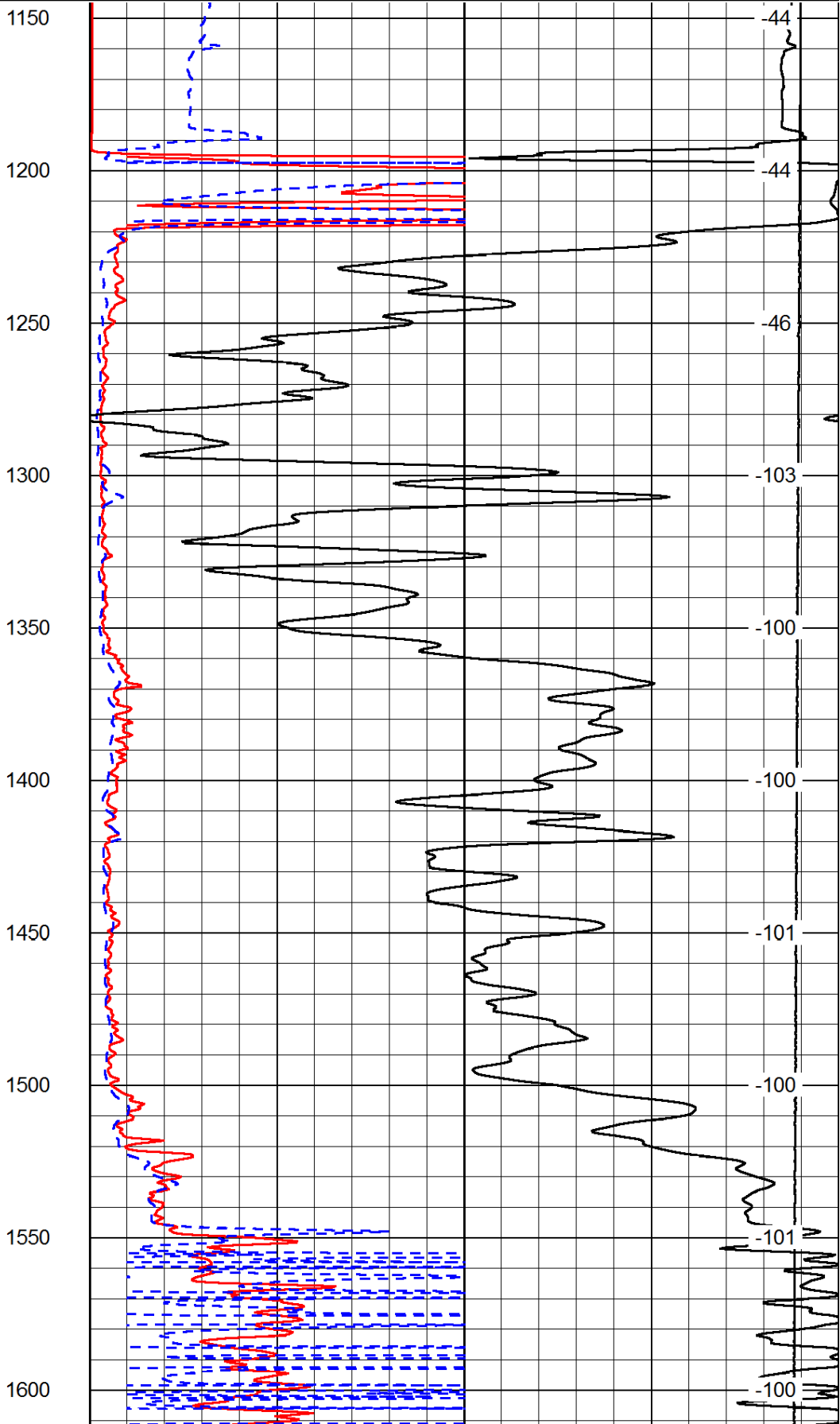
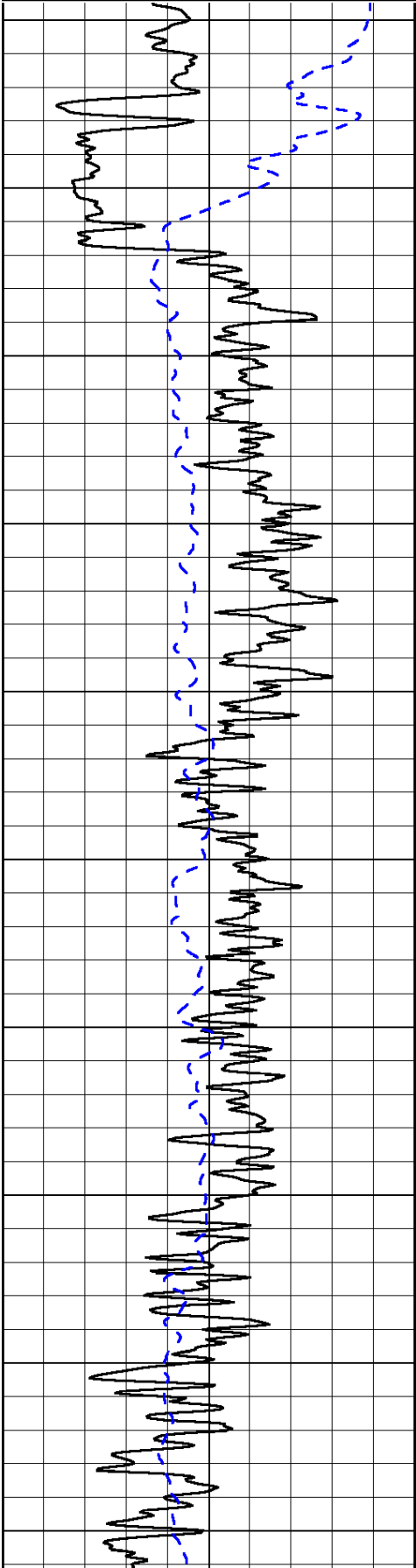
Database File: c:\warrior\data\tdi_gross # 1\tdi_gross_1hd.db
Dataset Pathname: dil\tdistck
Presentation Format: dil2in
Dataset Creation: Thu Jun 13 04:28:48 2013
Charted by: Depth in Feet scaled 1:600

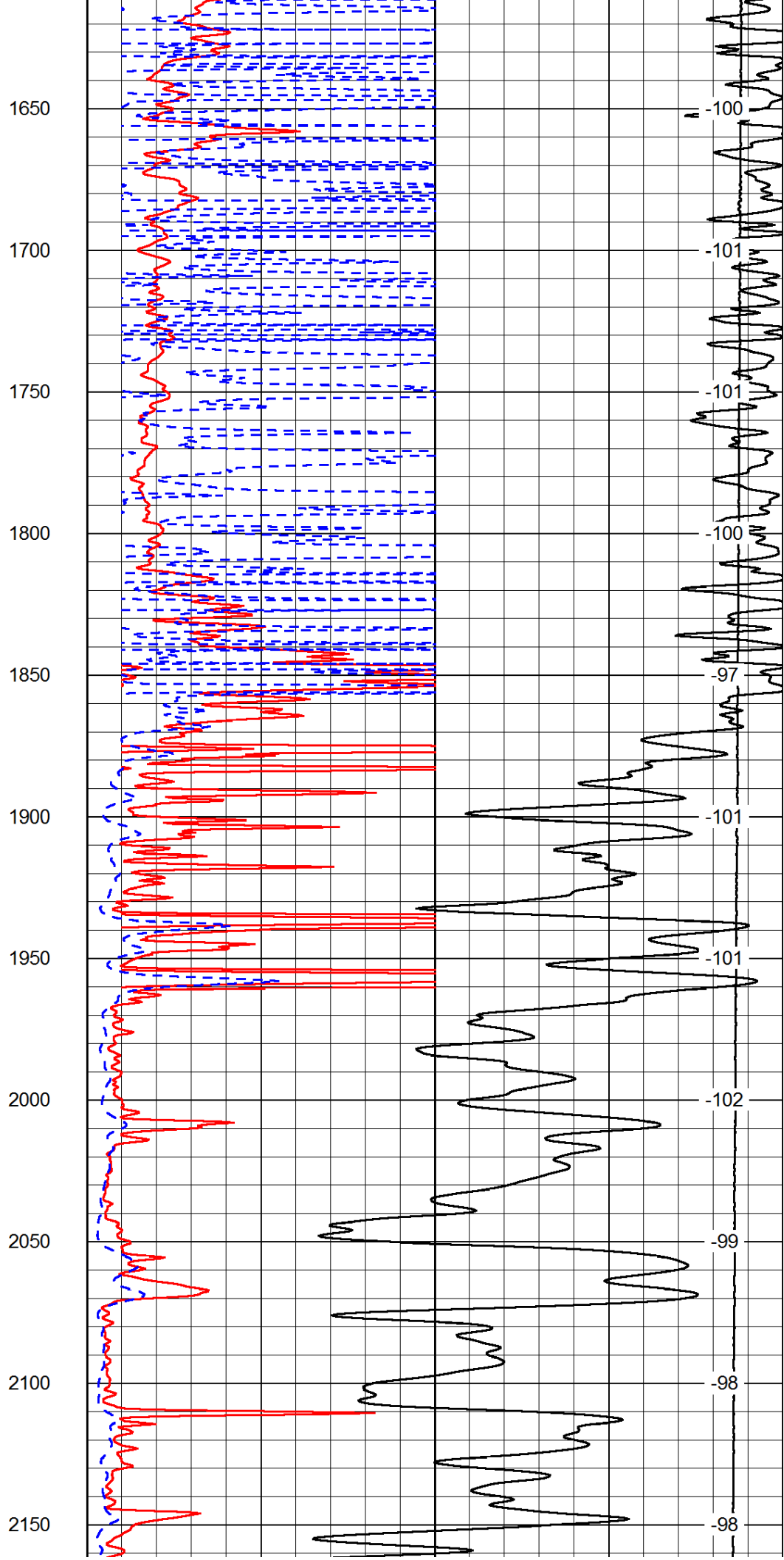
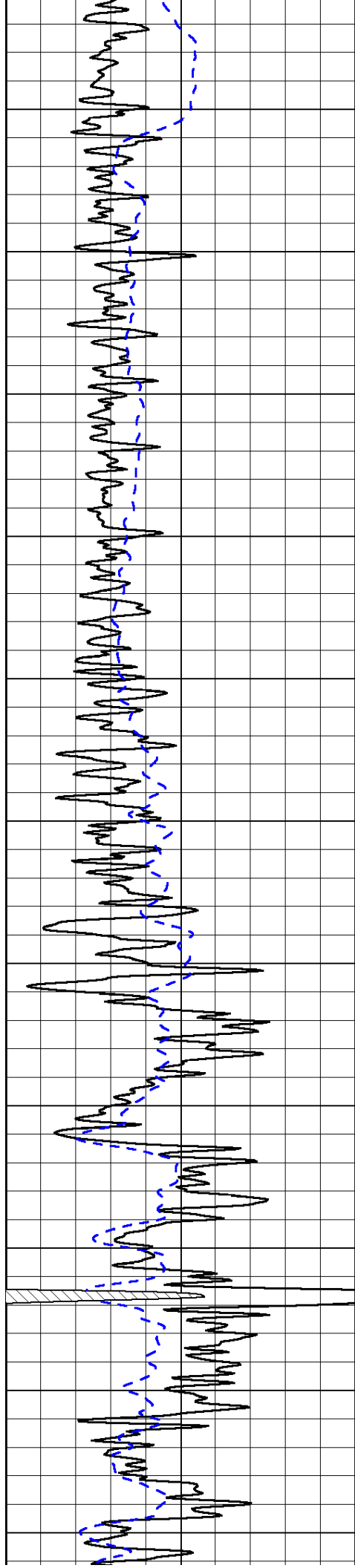
Charted by: Depth in Feet scaled 1:600

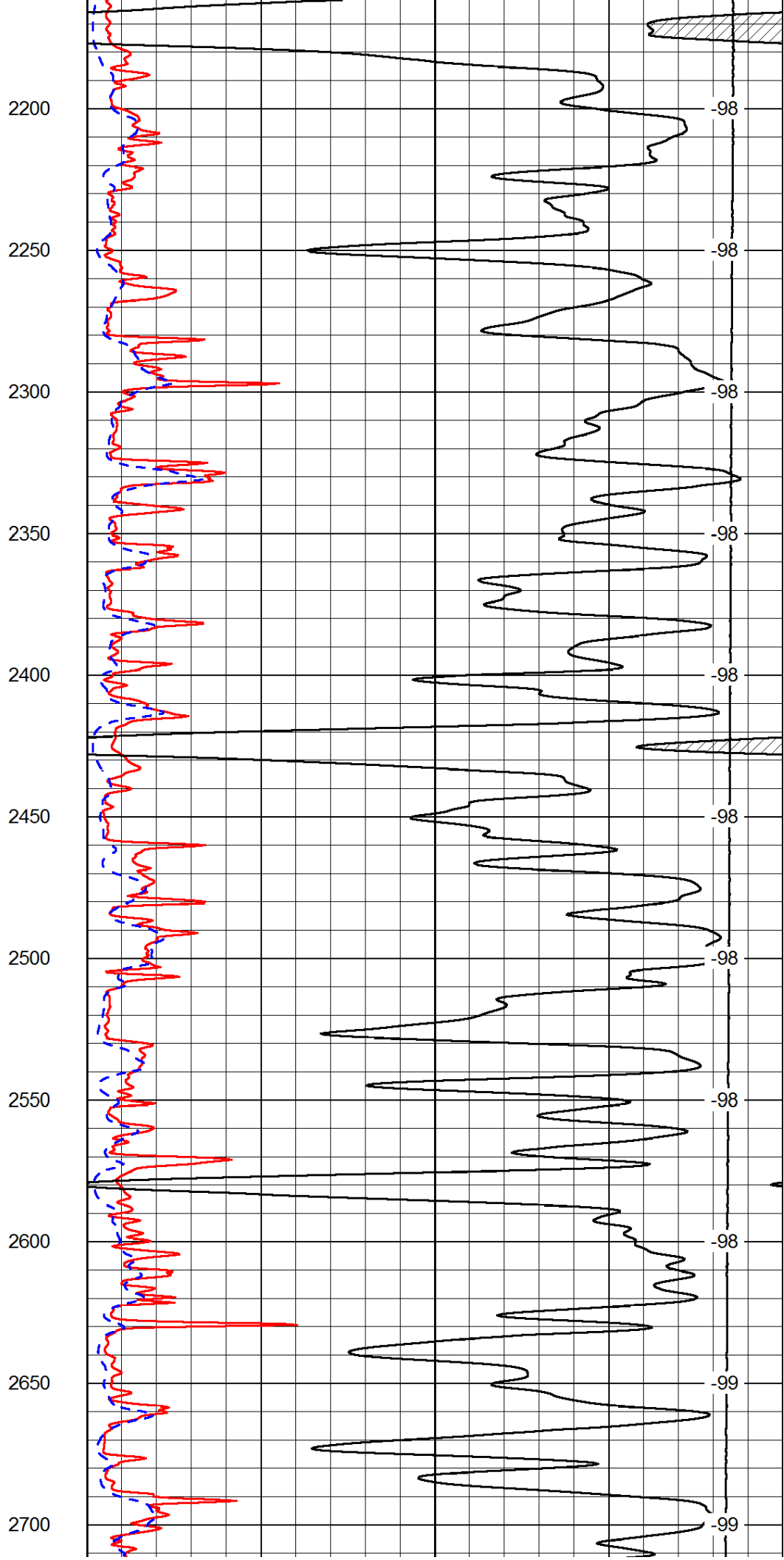
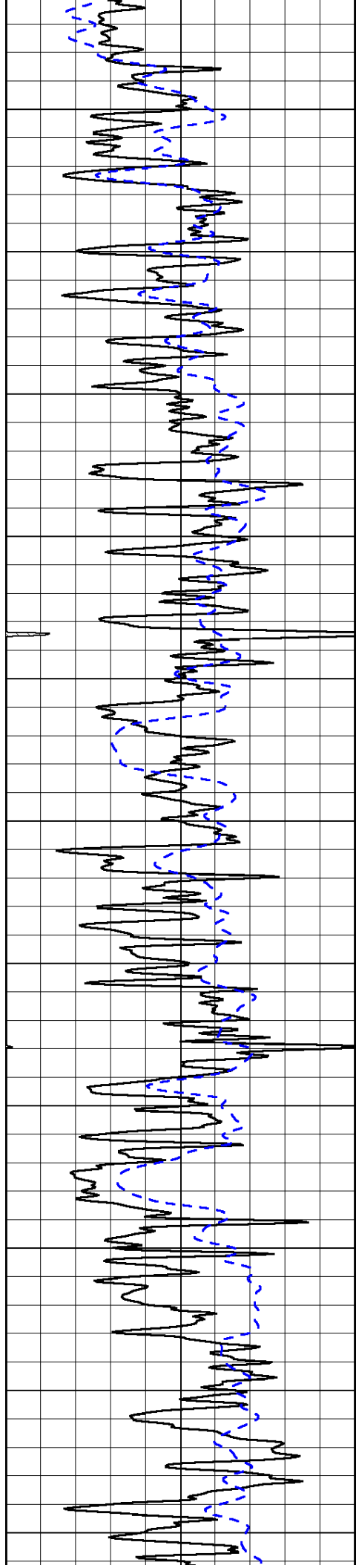
0	Gamma Ray	150
-200	SP (mV)	0

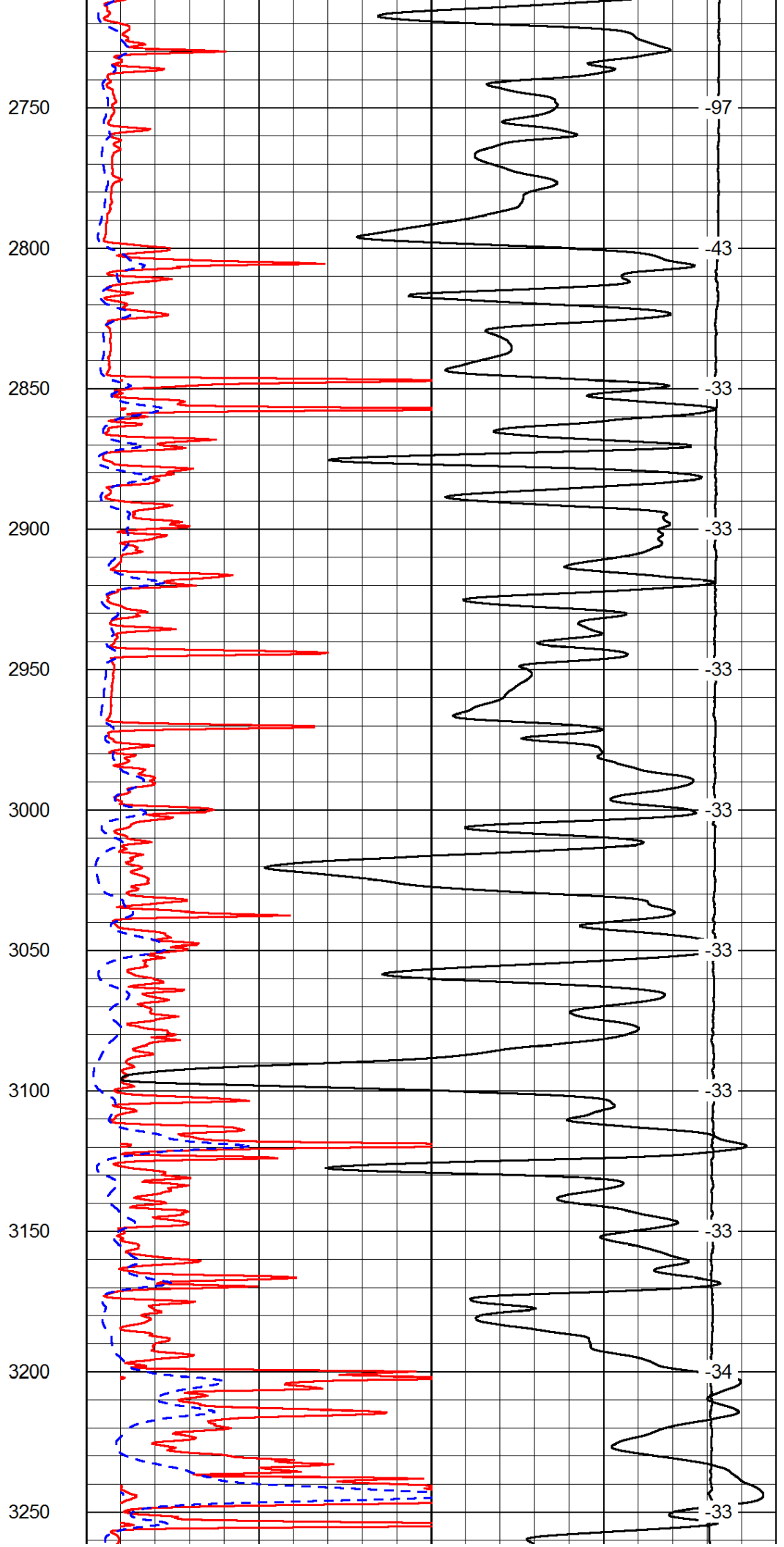
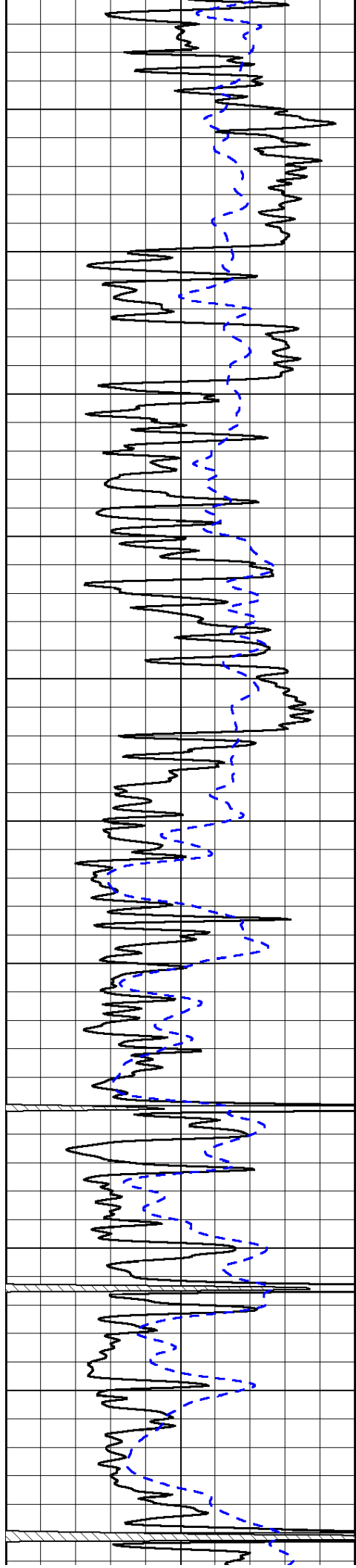
0	Shallow Resistivity	50
0	Deep Resistivity	50
1000	Conductivity	0
15000	Line Tension	0
50	Shallow Resistivity	500
50	Deep Resistivity	500

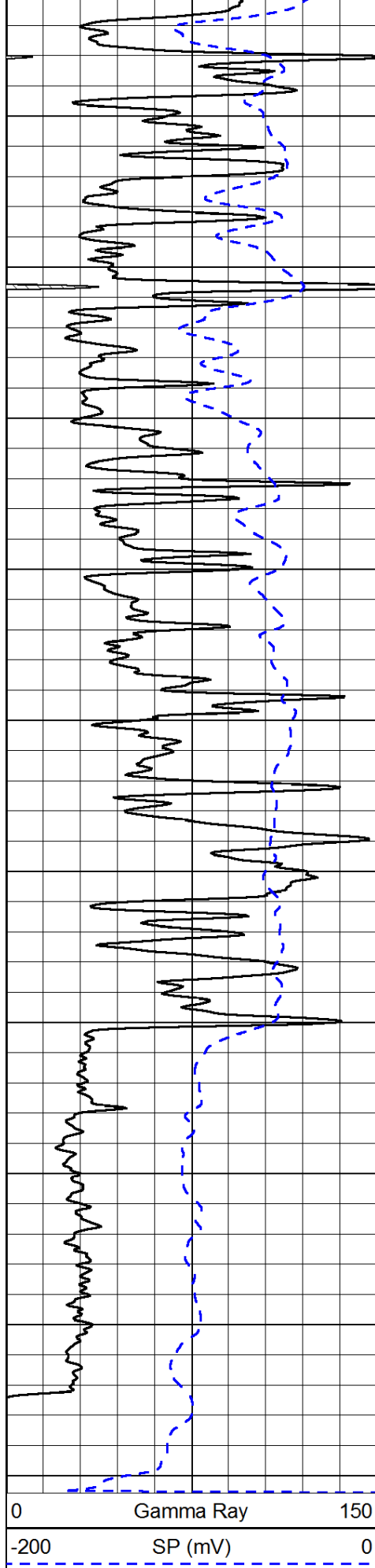
LSPD
0
0



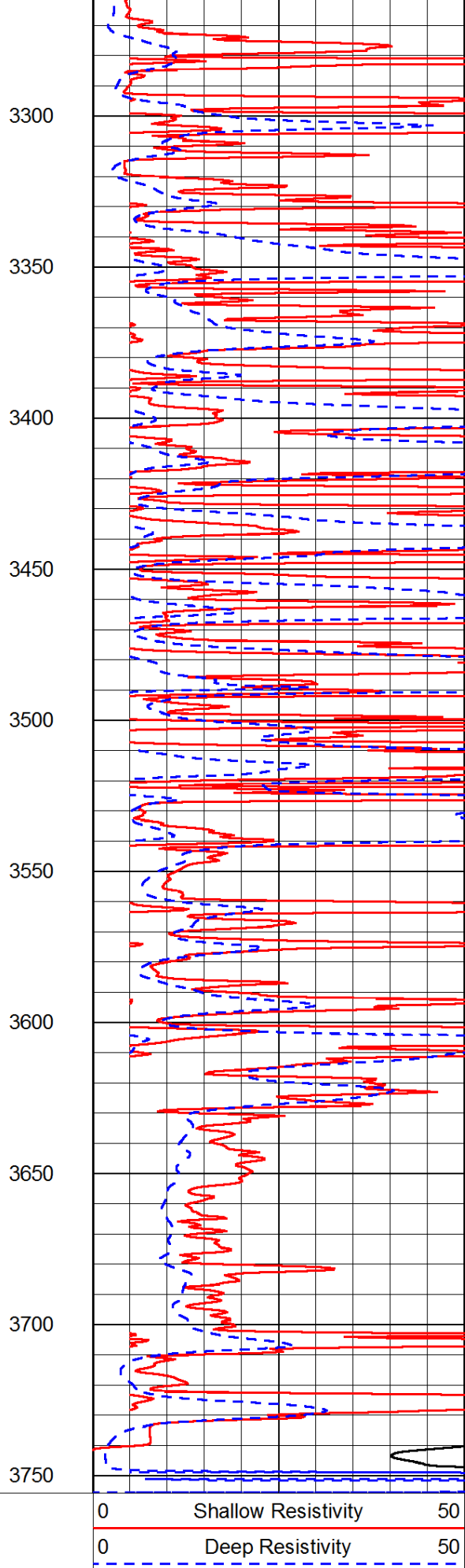




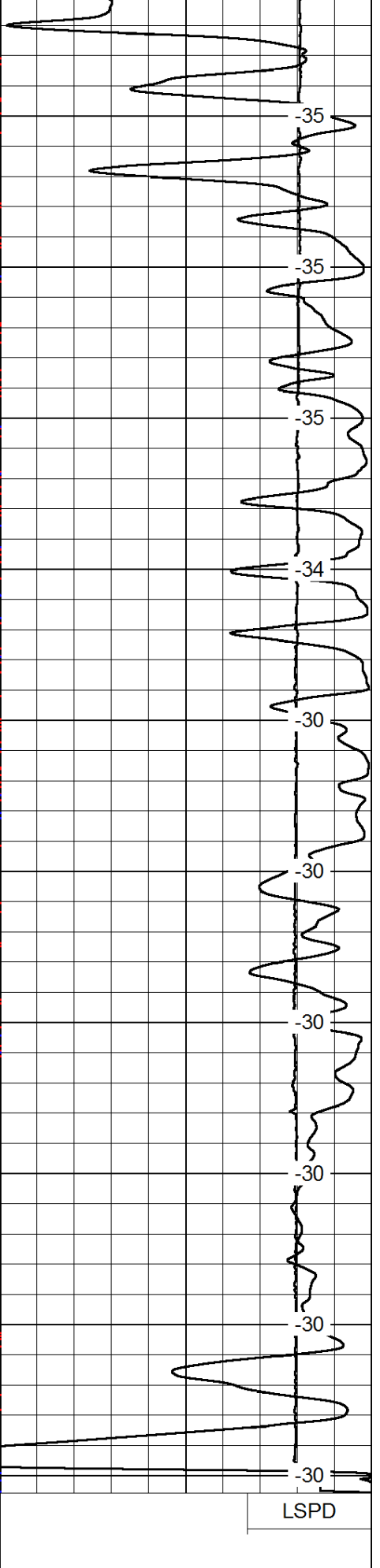




0 Gamma Ray 150
-200 SP (mV) 0



0 Shallow Resistivity 50
0 Deep Resistivity 50



LSPD

1000 Conductivity 0

15000 Line Tension 0

50 Shallow Resistivity 500

Database File:

c:\warrior\data\tdi_gross # 1\tdi_gross_1hd.db

Dataset Pathname:

dil/tdistck

Presentation Format:

dil

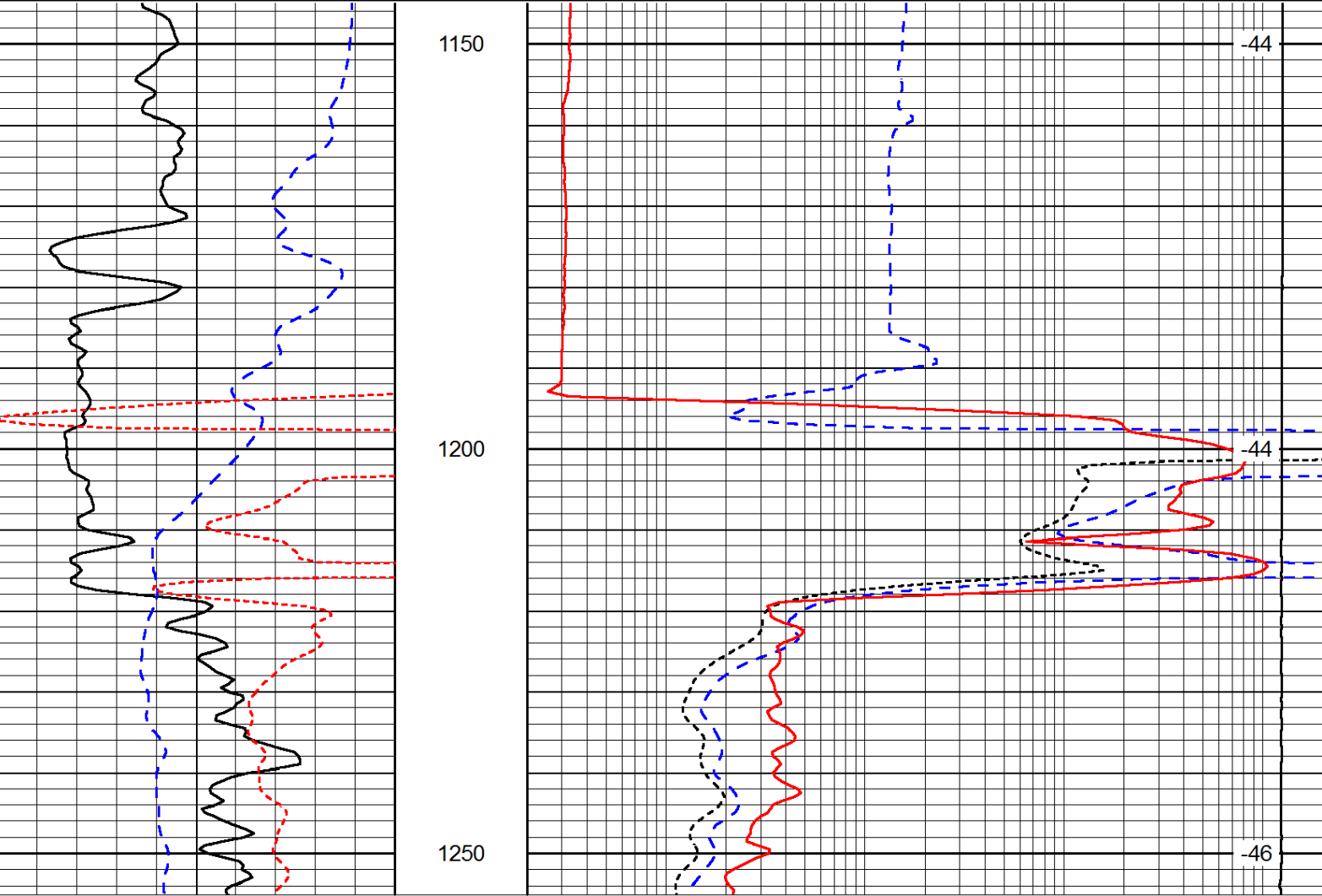
Dataset Creation:

Thu Jun 13 04:28:48 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



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

Database File:

c:\warrior\data\tdi_gross # 1\tdi_gross_1hd.db

Dataset Pathname:

dil/tdistck

Presentation Format:

dil

Dataset Creation:

Thu Jun 13 04:28:48 2013

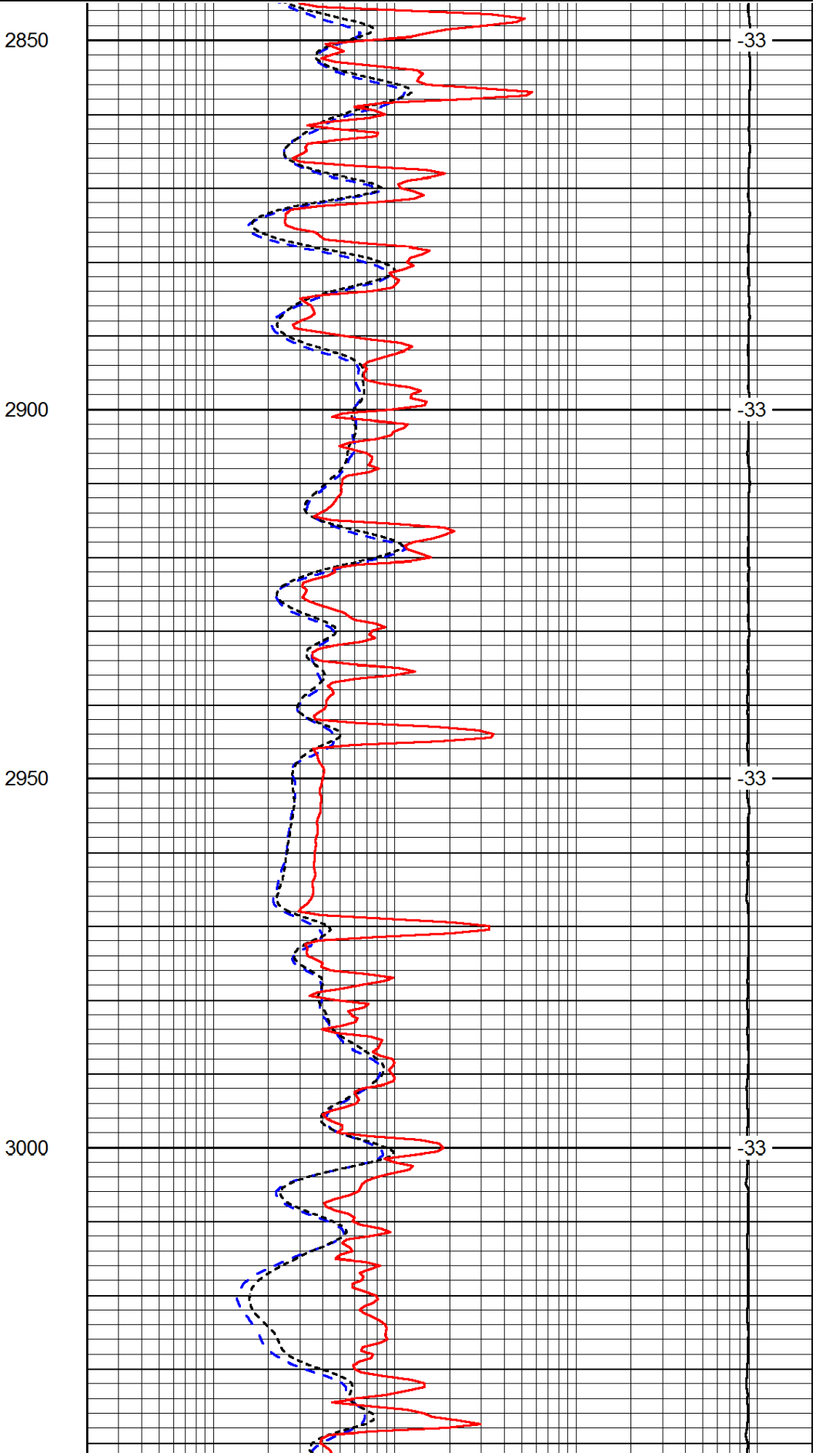
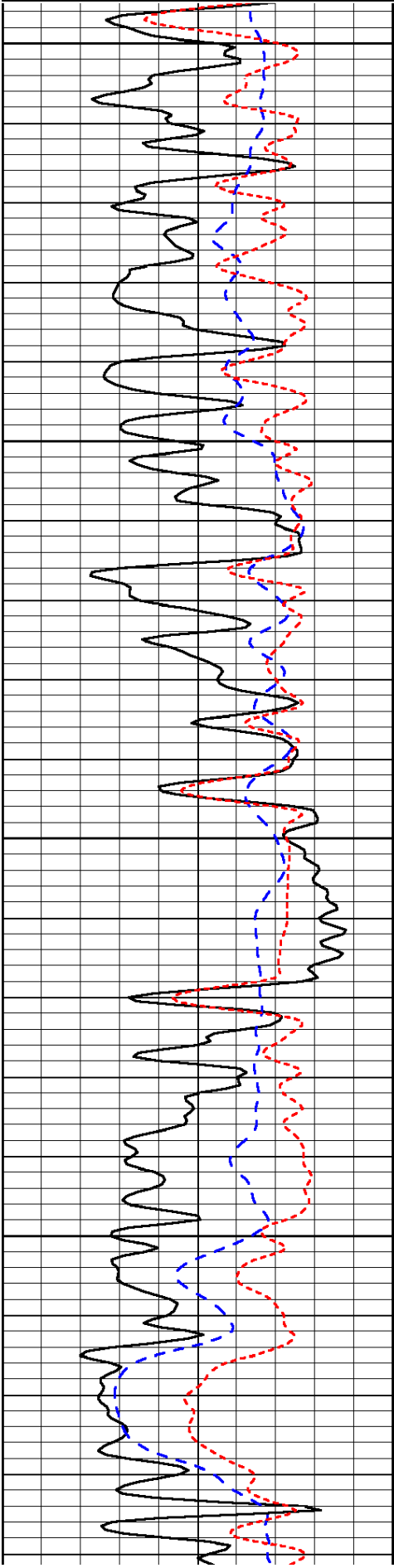
Charted by:

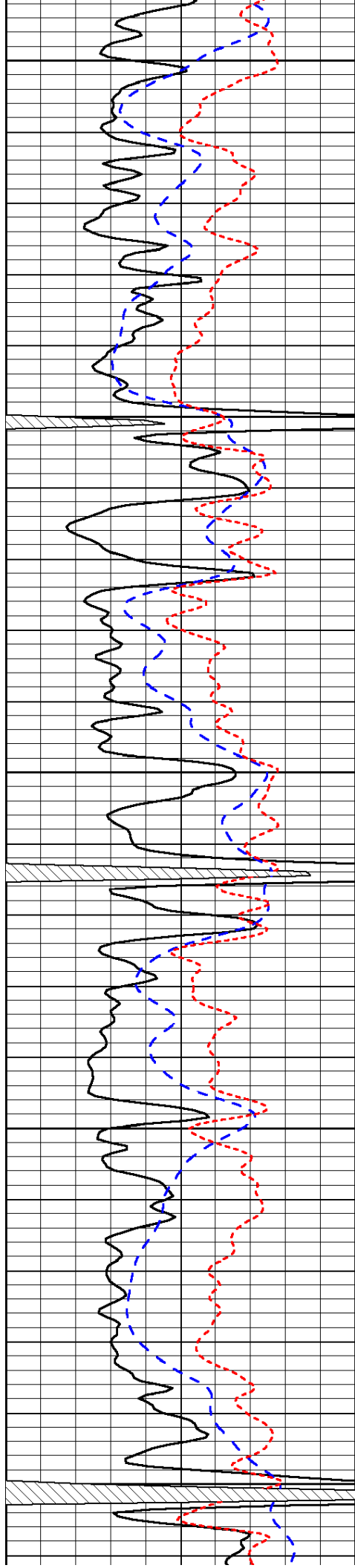
Depth in Feet scaled 1:240

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





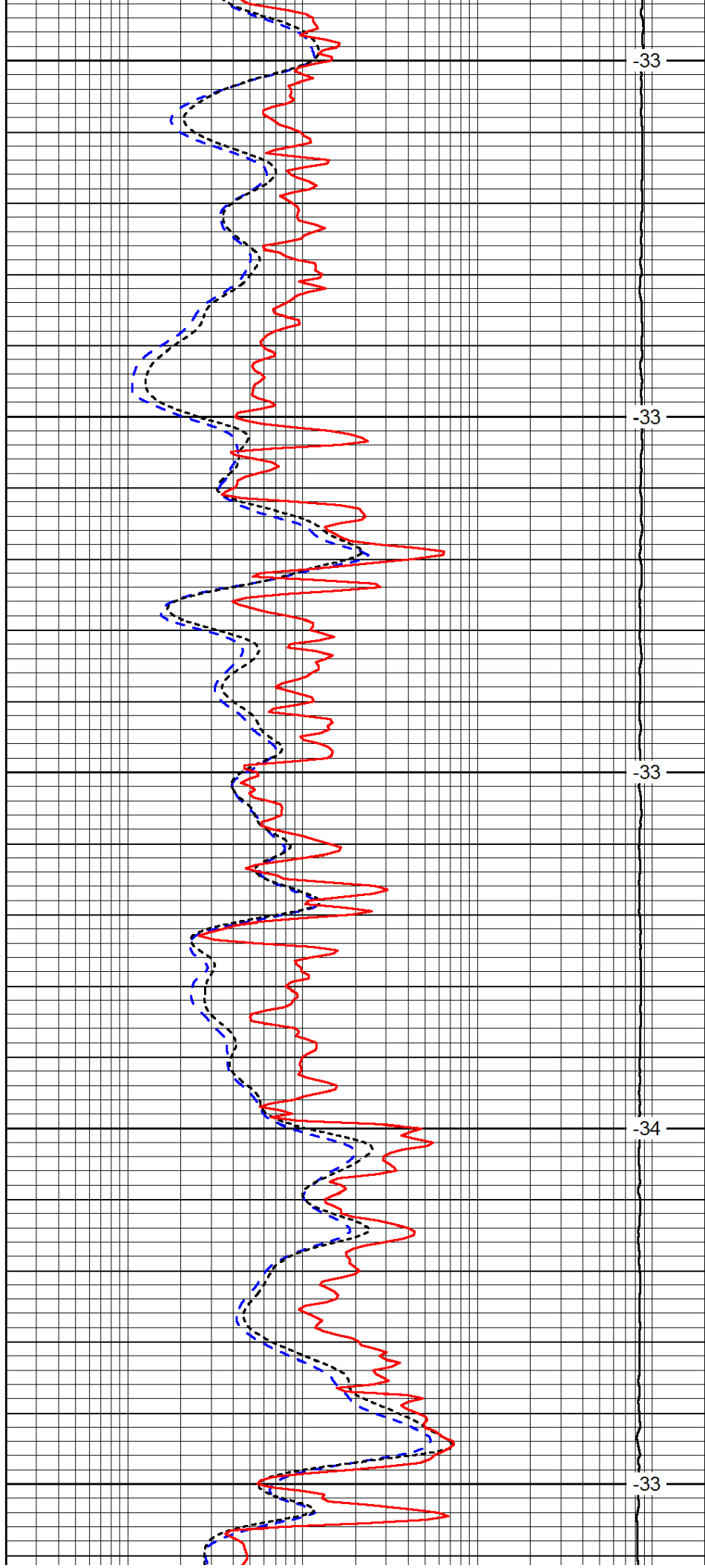
3050

3100

3150

3200

3250



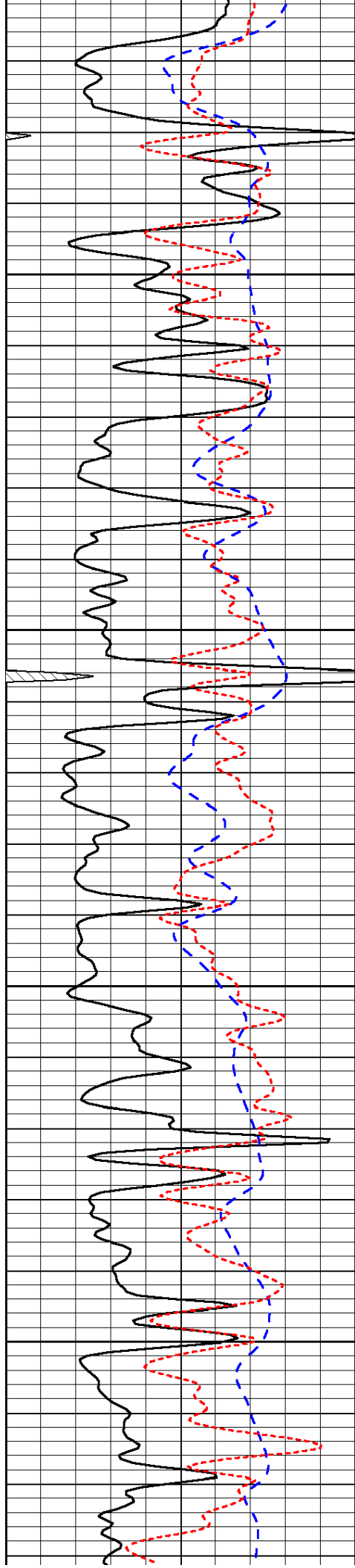
-33

-33

-33

-34

-33

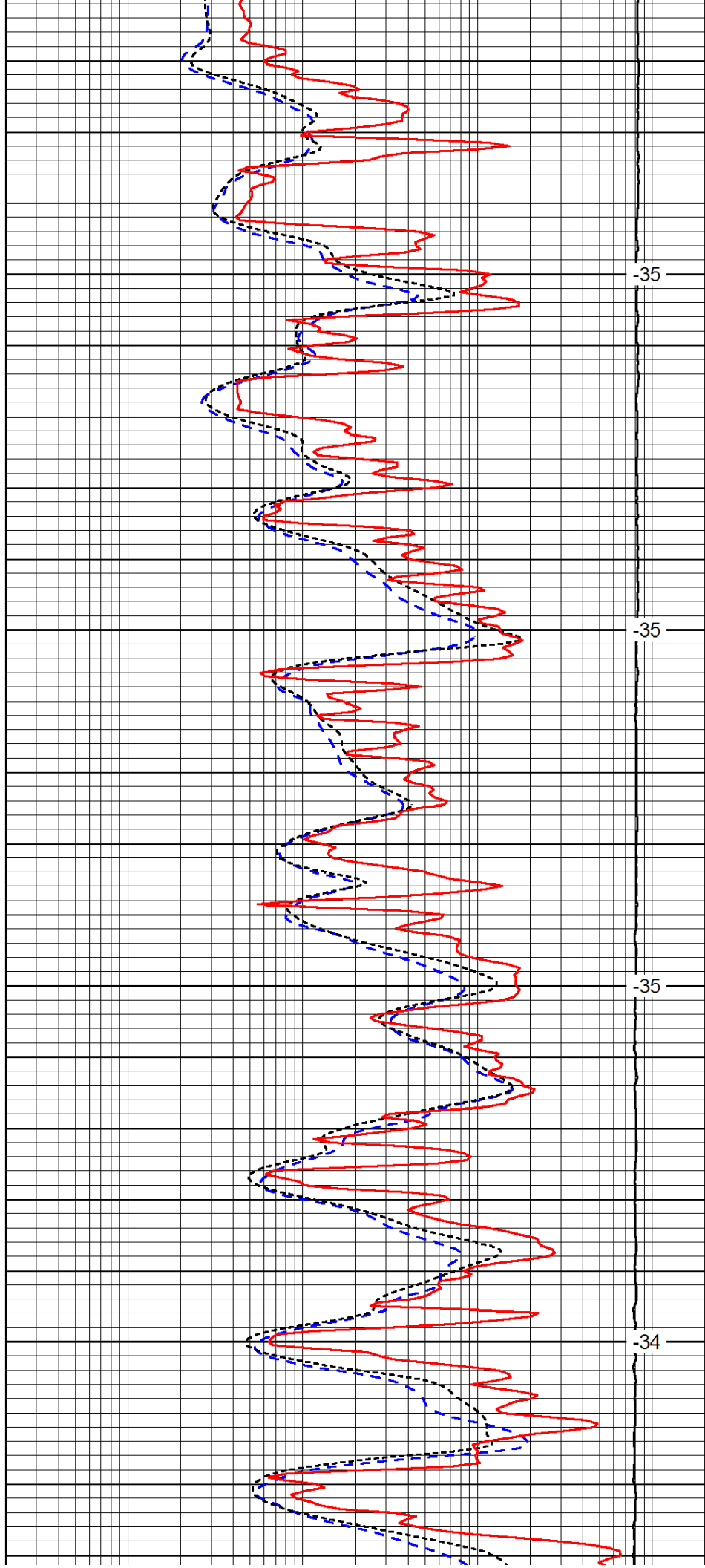


3300

3350

3400

3450

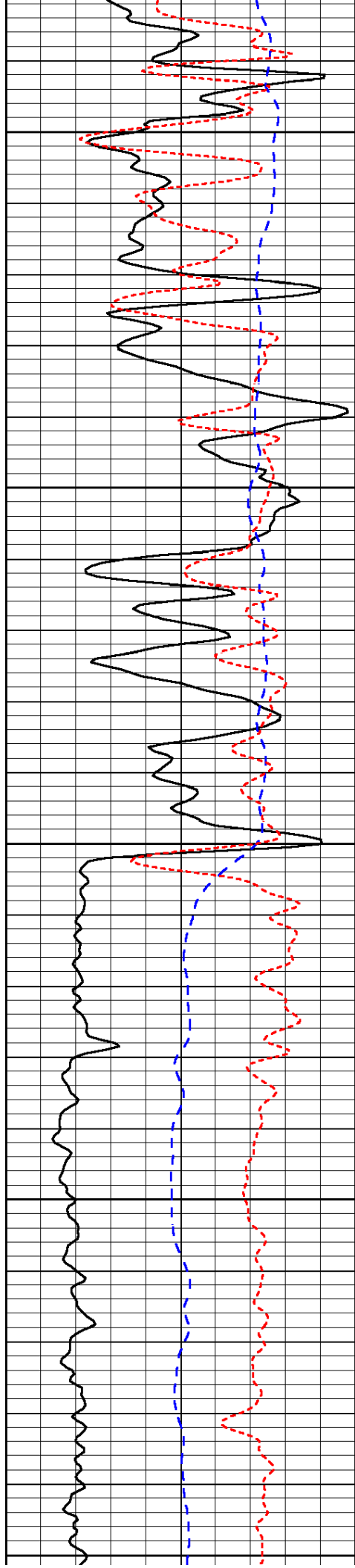


-35

-35

-35

-34



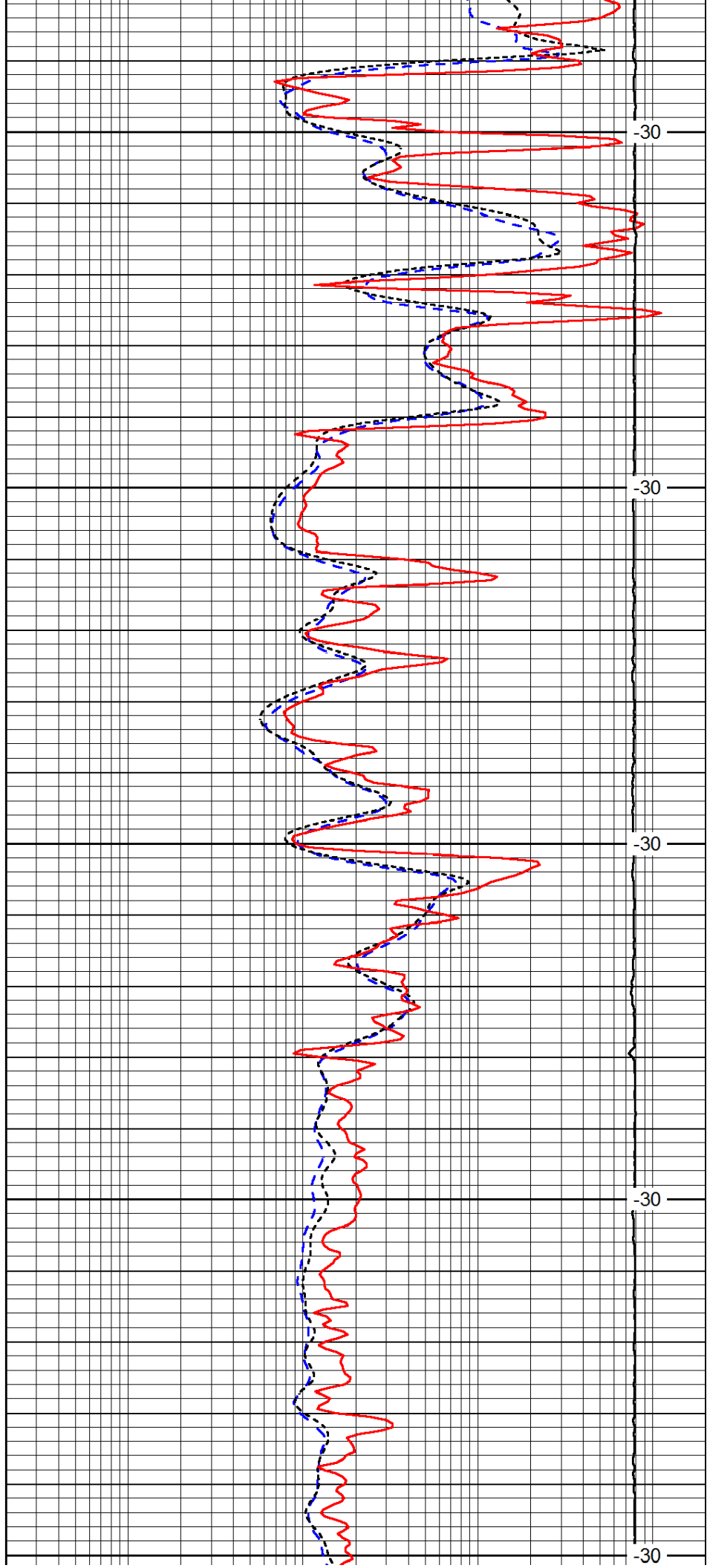
3500

3550

3600

3650

3700



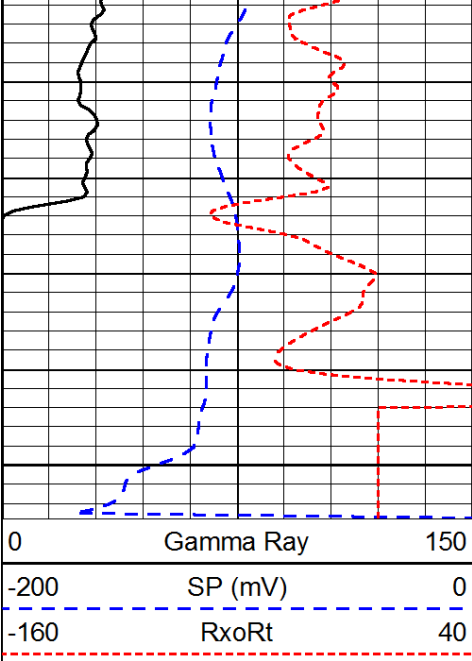
-30

-30

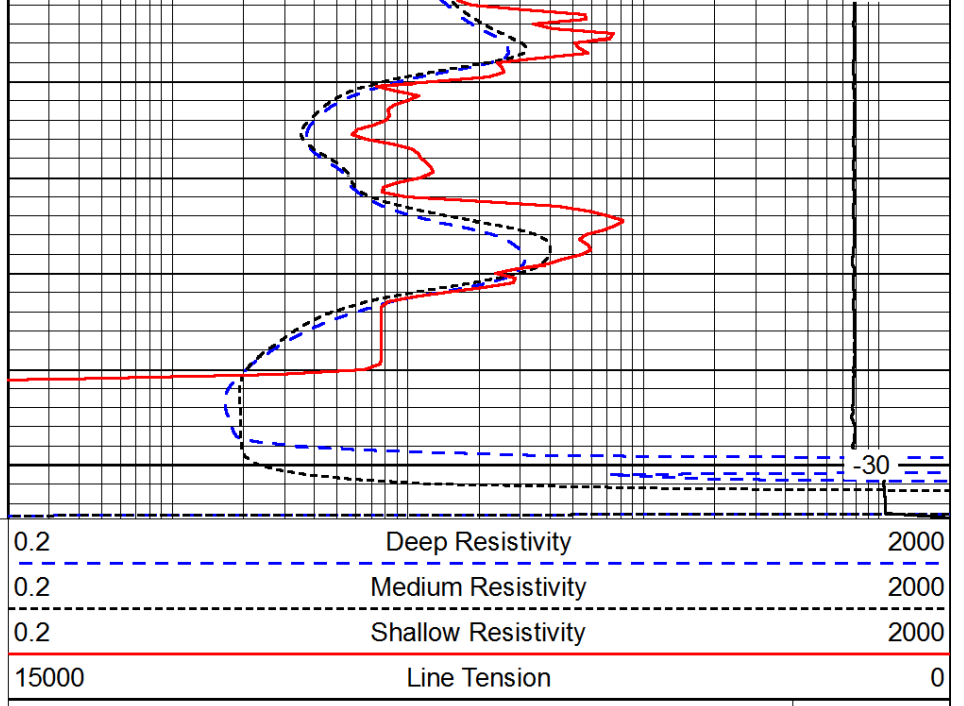
-30

-30

-30



3750



-30

LSPD