



# DUAL INDUCTION LOG

**Company** BEAR PETROLEUM, LLC  
**Well** GL SCHMIDT "B" NO. 1  
**Field** BULL CREEK  
**County** RICE **State** KANSAS

**Company** BEAR PETROLEUM, LLC  
**Well** GL SCHMIDT "B" NO. 1  
**Field** BULL CREEK  
**County** RICE  
**State** KANSAS

**Location:** API #: 15-159-22831-00-00  
 NE NE SW NW  
 1,550' FNL & 1,250' FWL  
 SEC 21 TWP 21S RGE 8W  
**Permanent Datum** GROUND LEVEL Elevation 1629'  
**Log Measured From** KELLY BUSHING  
**Drilling Measured From** KELLY BUSHING

Other Services  
 CNL/CDL  
 MEL

Date	4/14/2016
Run Number	ONE
Depth Driller	3773'
Depth Logger	3774'
Bottom Logged Interval	3773'
Top Log Interval	250'
Casing Driller	8.625" @ 278'
Casing Logger	271'
Bit Size	7.875"
Type Fluid in Hole	CHEMICAL
Salinity, ppm CL	5000
Density / Viscosity	9.5 49
pH / Fluid Loss	9.5 8.8
Source of Sample	FLOWLINE
Rm @ Meas. Temp	.64 @ 62
Rmt @ Meas. Temp	.48 @ 62
Rmc @ Meas. Temp	.86 @ 62
Source of Rmf / Rmc	CHARTS
Rm @ BHT	.35 @ 114
Operating Rig Time	2 1/2 HOURS
Max Rec. Temp. F	114 DEG F.
Equipment Number	108
Location	COLBY
Recorded By	J. LONG
Witnessed By	JIM MUSGROVE

<<< Fold Here >>>

All interpretations are opinions based on inferences from electrical or other measurements and Pioneer Wireline Services, LLC cannot and does not guarantee the accuracy or correctness of any interpretation, and Pioneer Wireline Services, LLC will not 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.

**Comments**

N/A DENOTES NOT AVAILABLE OR NON-APPLICABLE.  
 STERLING, 1 1/2 EAST ON AVENUE W (SOUTH EDGE OF TOWN) TO 17 ROAD, 1/4 SOUTH, EAST INTO (NORTH SIDE OF RR TRACKS)

Log Measured From: KELLY BUSHING 10 Ft. Above Permanent Datum

THANK YOU FOR USING PIONEER ENERGY SERVICES  
[www.pioneerenergy.com](http://www.pioneerenergy.com) 785-625-3858

<b>Your Pioneer Energy Services Crew</b> Engineer: J. LONG Operator: Operator: Operator: M. HISS	<b>This Log Record Was Witnessed By</b> Primary Witness: JIM MUSGROVE Secondary Witness: Secondary Witness: Secondary Witness:
--	--

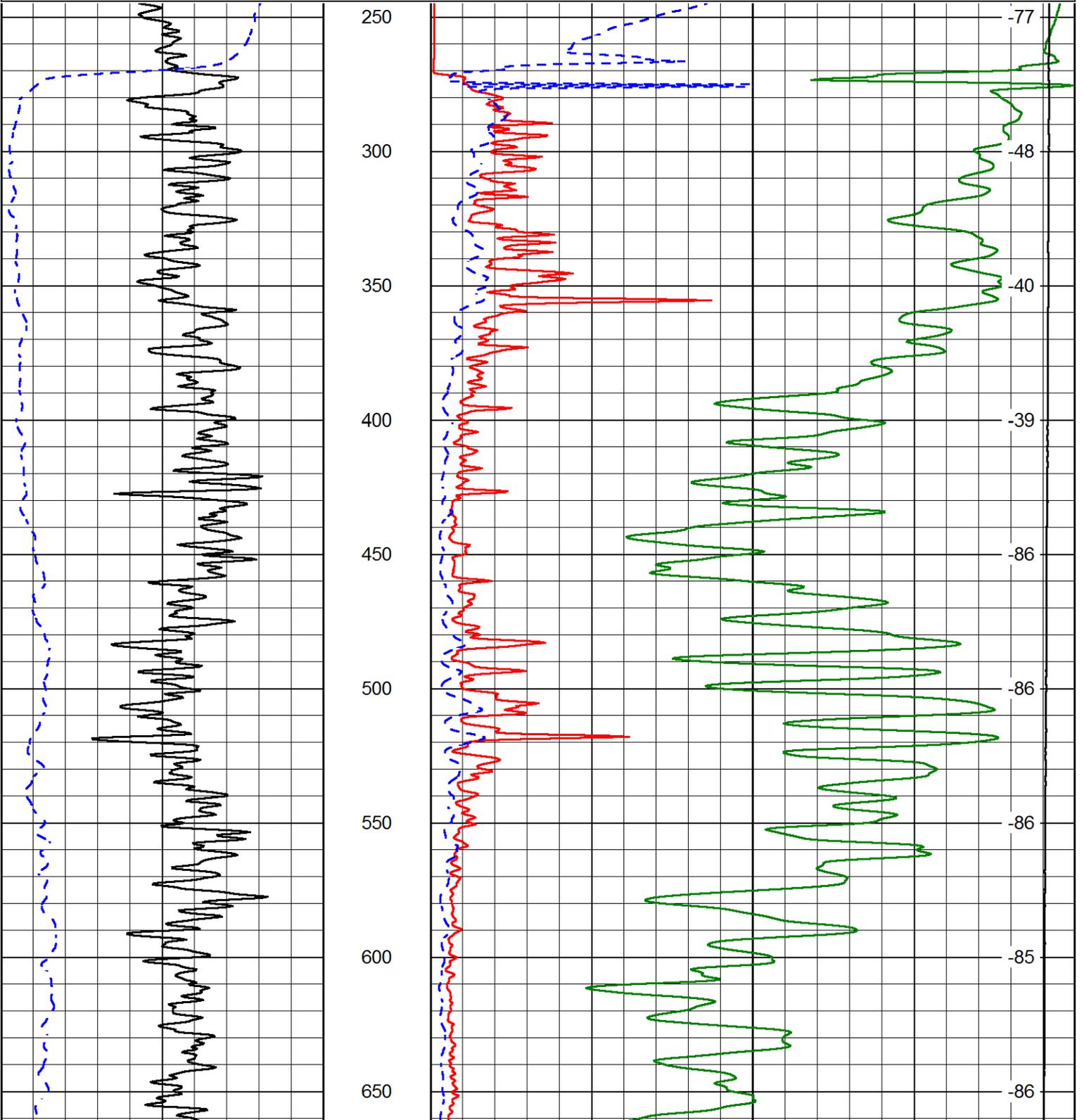
Database File bearpetroleum\_gl\_schmidt\_b\_1hd.db  
 Dataset Pathname DIL/brstckml  
 Presentation Format dil2in  
 Dataset Creation Fri Apr 15 00:00:27 2016  
 Charted by Depth in Feet scaled 1:600

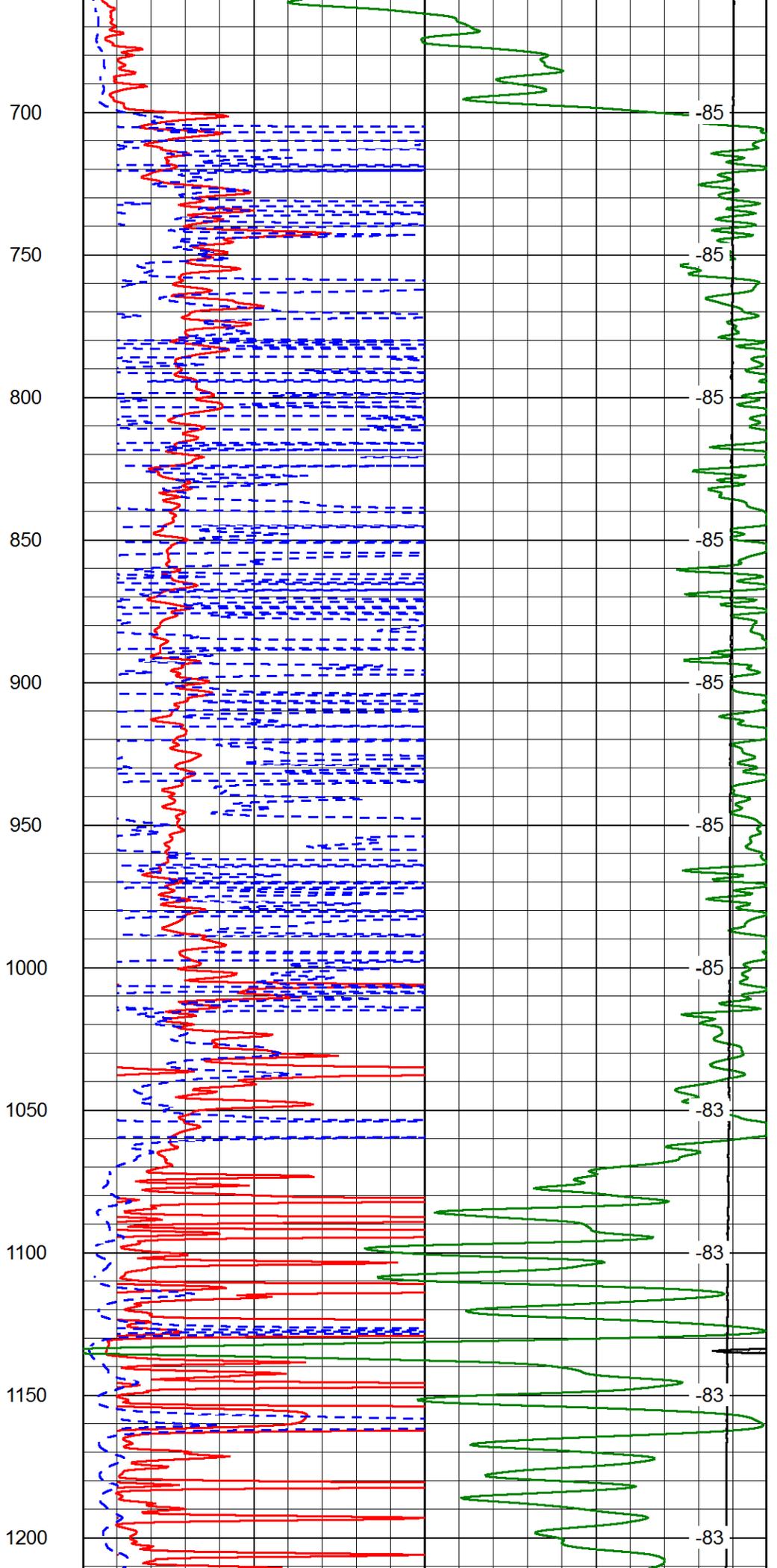
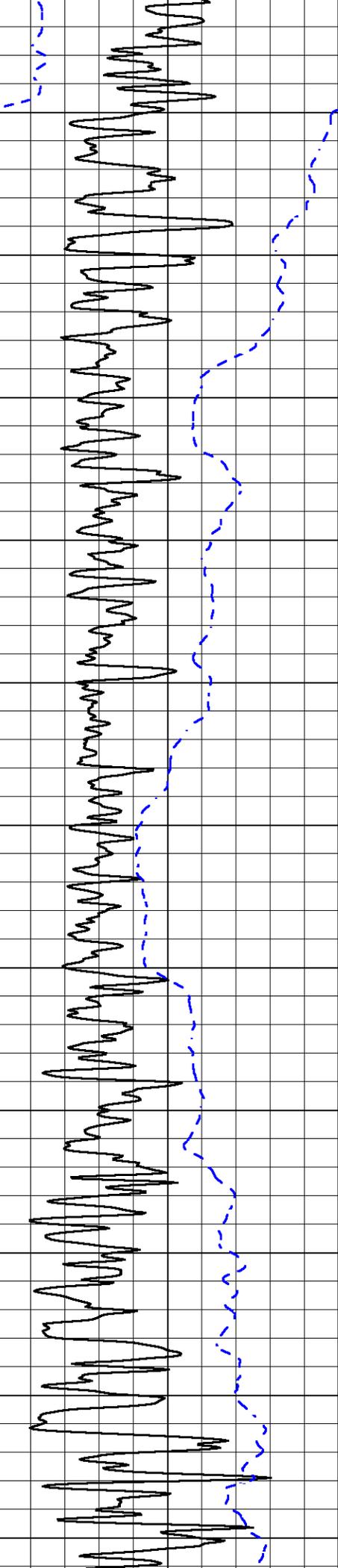
0 Gamma Ray (GAPI) 150  
 -200 SP (mV) 0

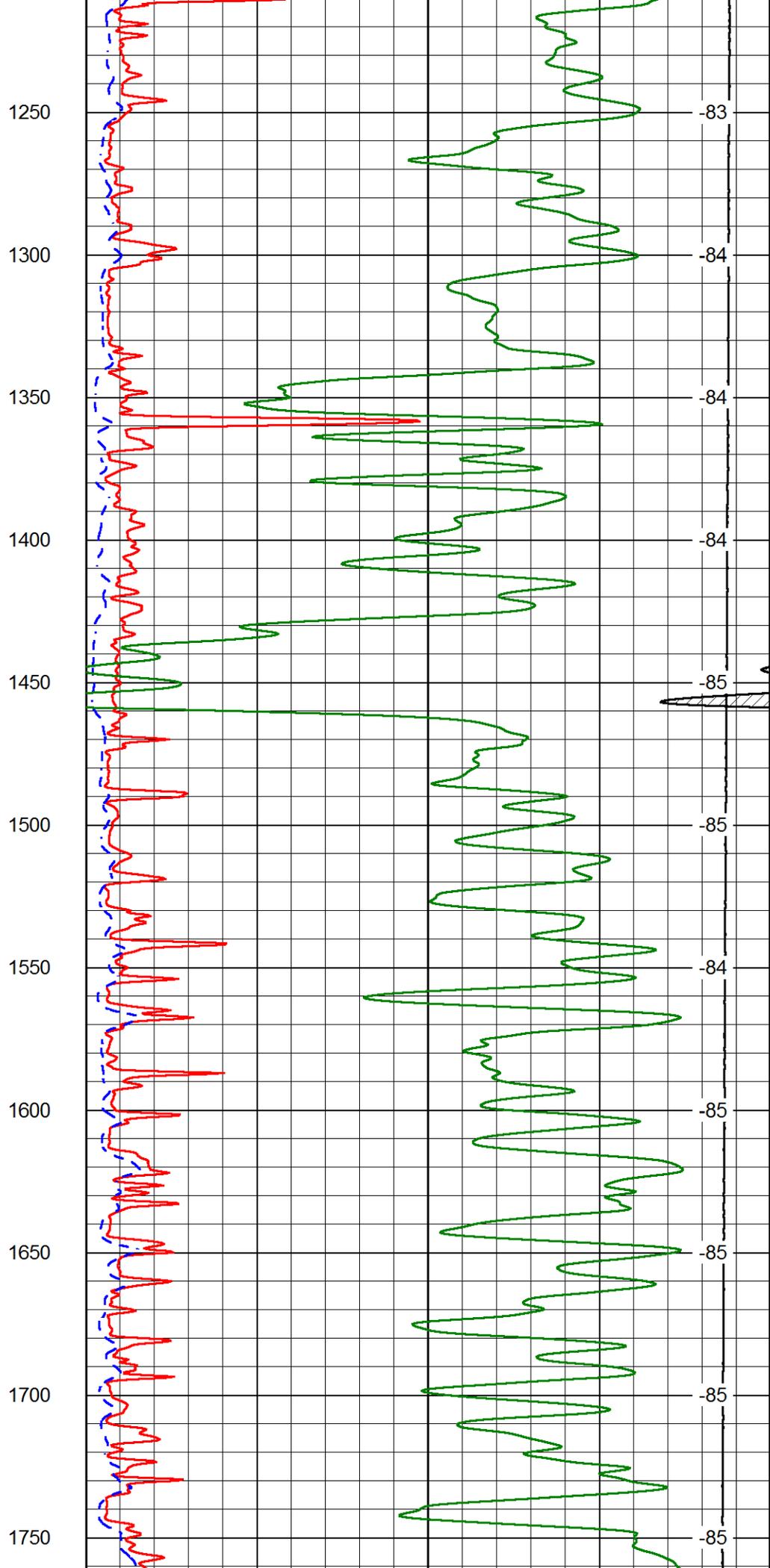
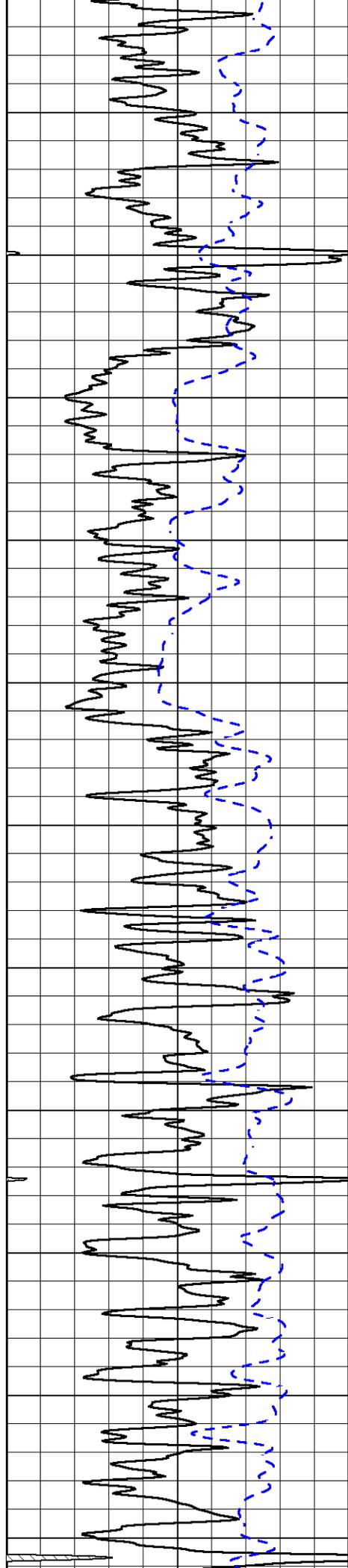
1000 Conductivity 0  
 15000 Line Tension (lb) 0

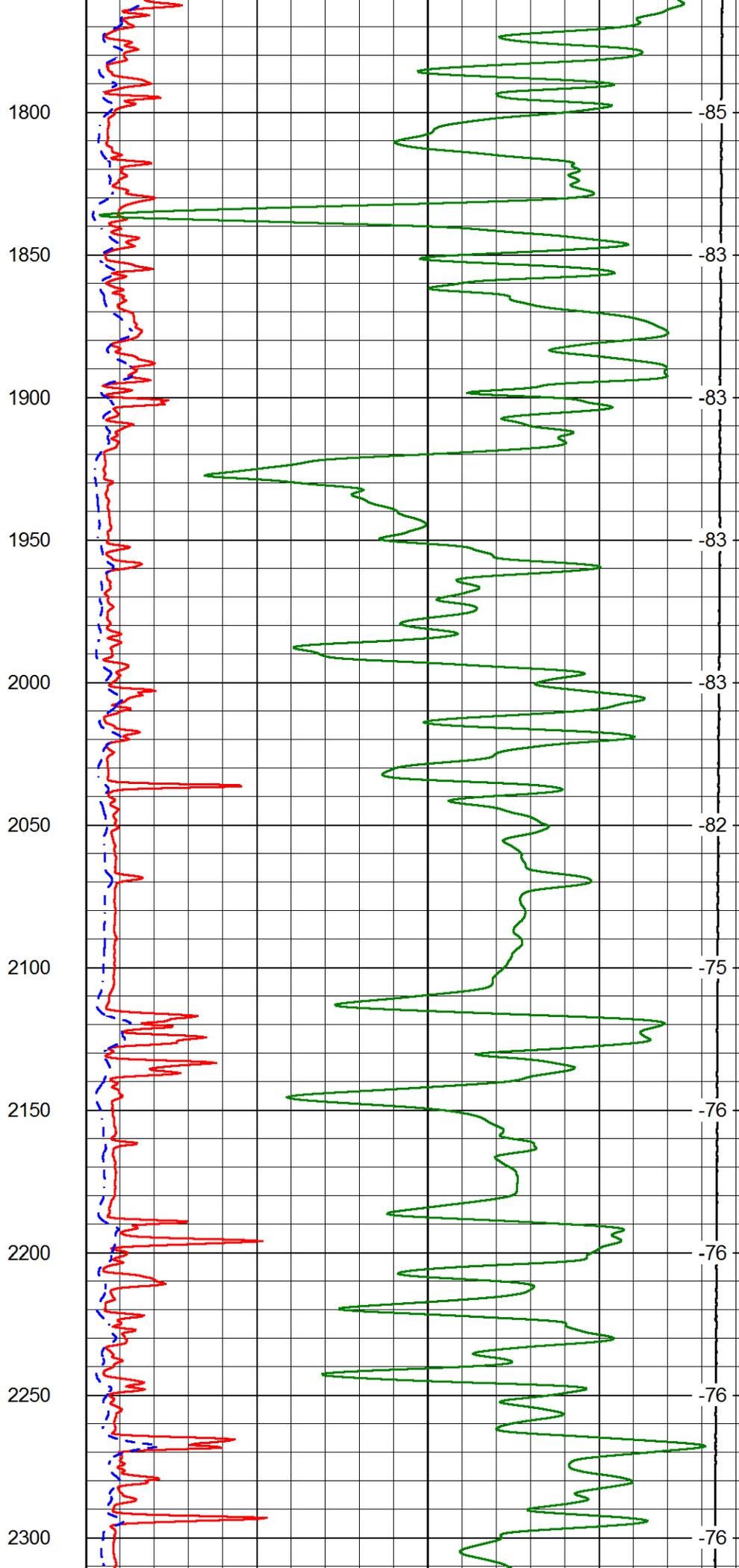
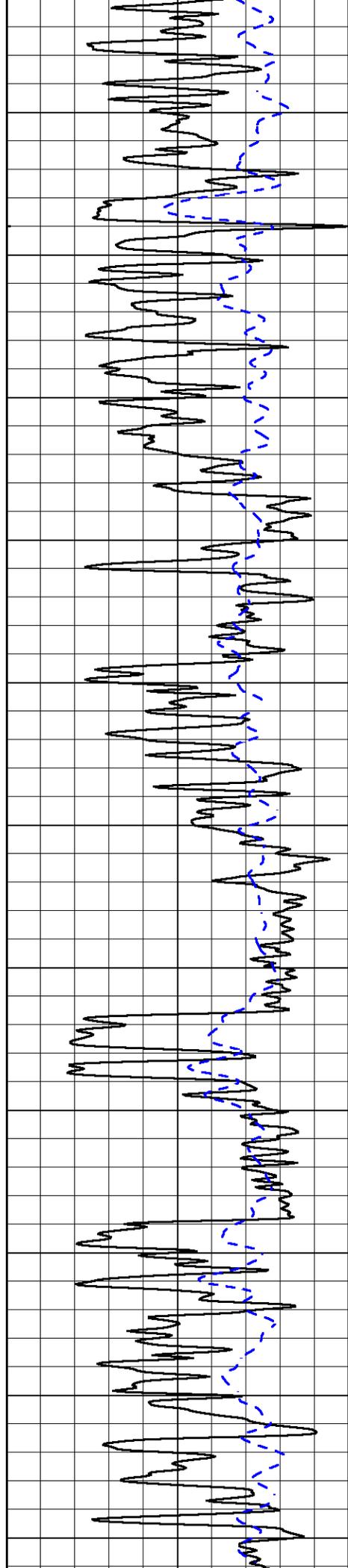
0 Shallow Resistivity (Ohm-m) 50  
 0 Deep Resistivity (Ohm-m) 50  
 Shallow Resistivity  
 50 (Ohm-m) 500  
 50 Deep Resistivity (Ohm-m) 500

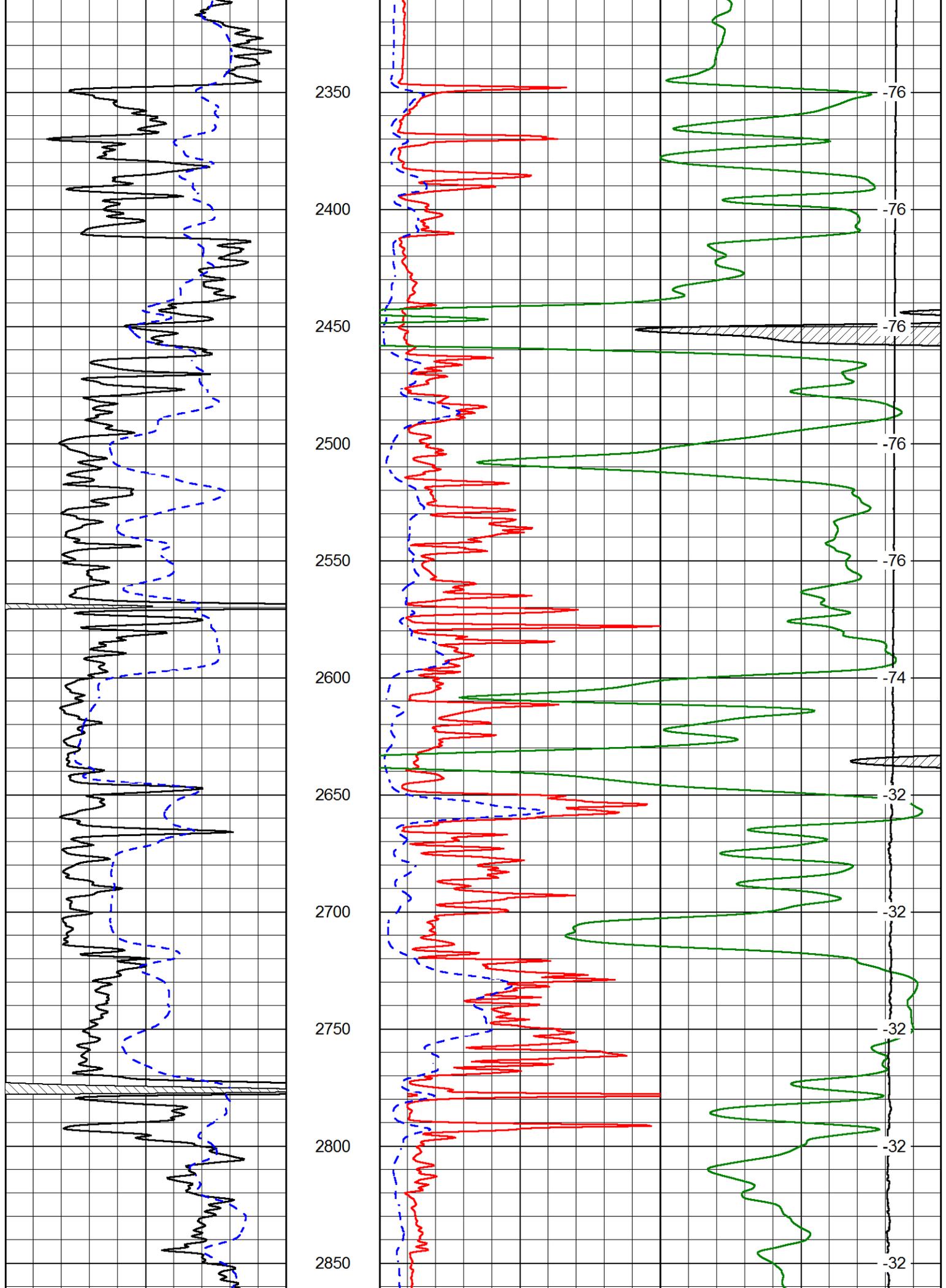
LSPD  
 (ft/min)

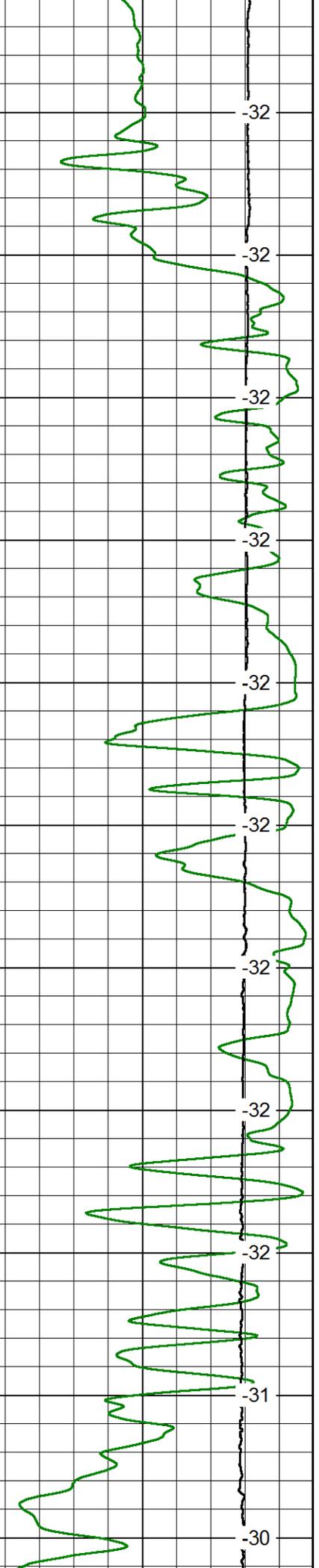
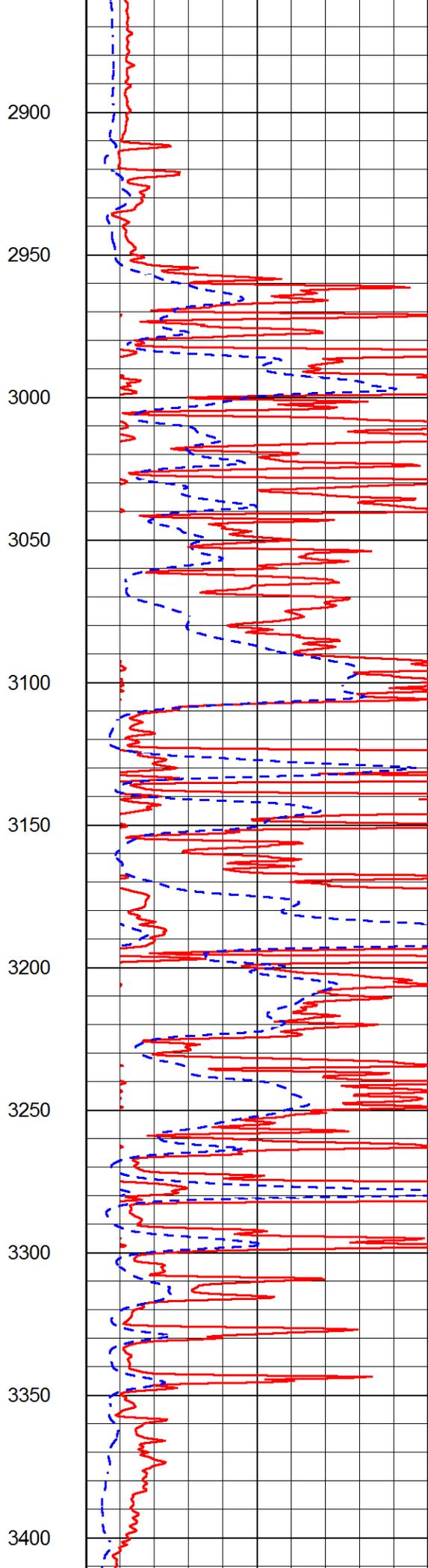
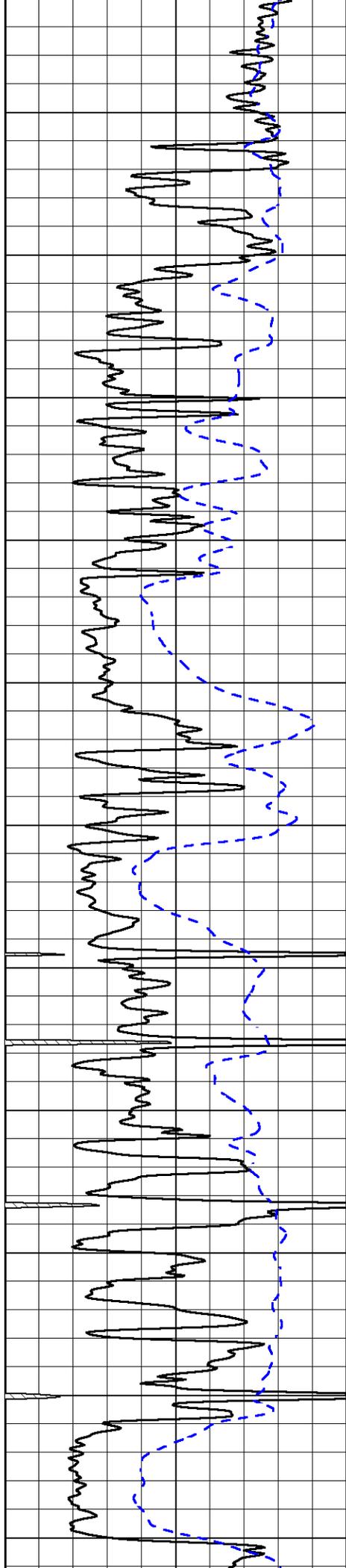


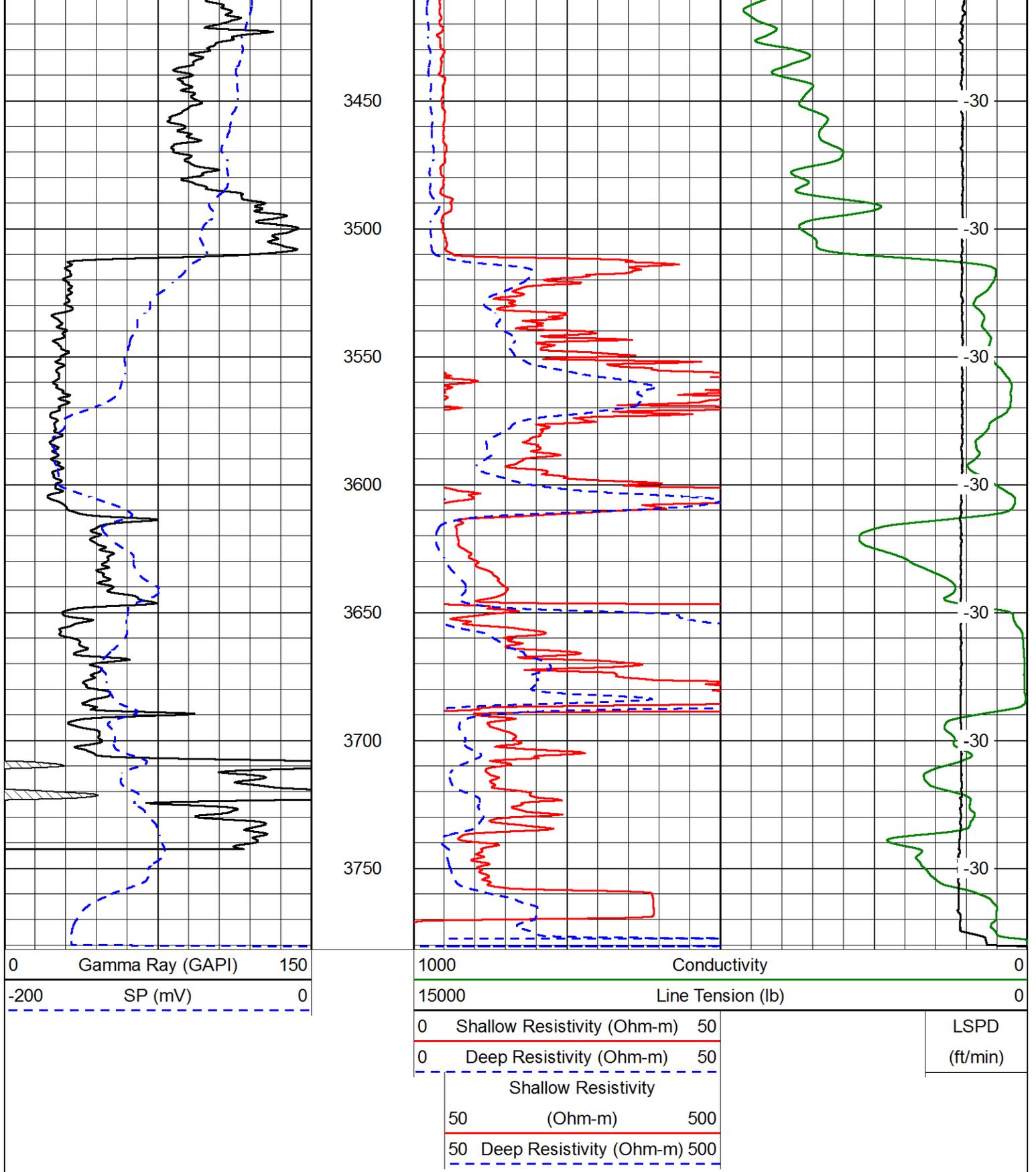




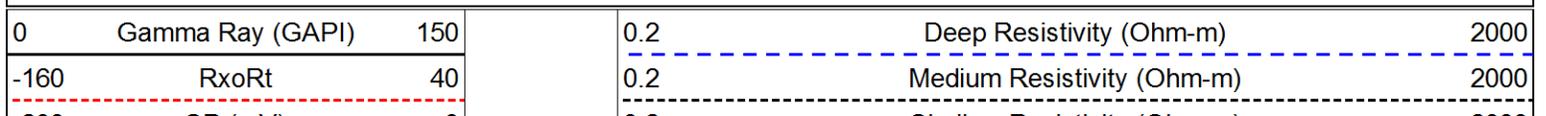








Database File: bearpetroleum\_gl\_schmidt\_b\_1hd.db  
 Dataset Pathname: DIL/brstckml  
 Presentation Format: dil  
 Dataset Creation: Fri Apr 15 00:00:27 2016  
 Charted by: Depth in Feet scaled 1:240

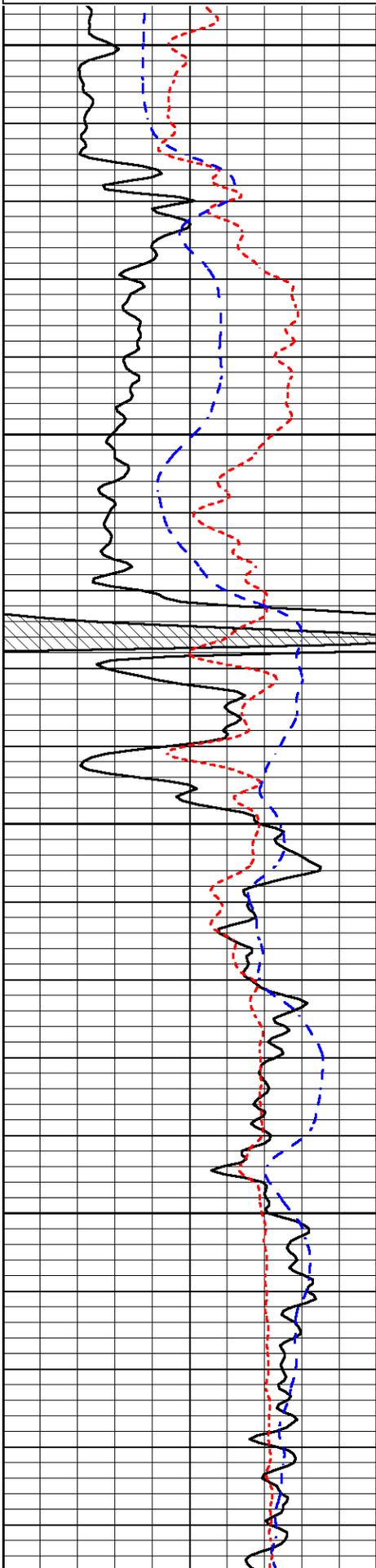


-200 SP (mV) 0

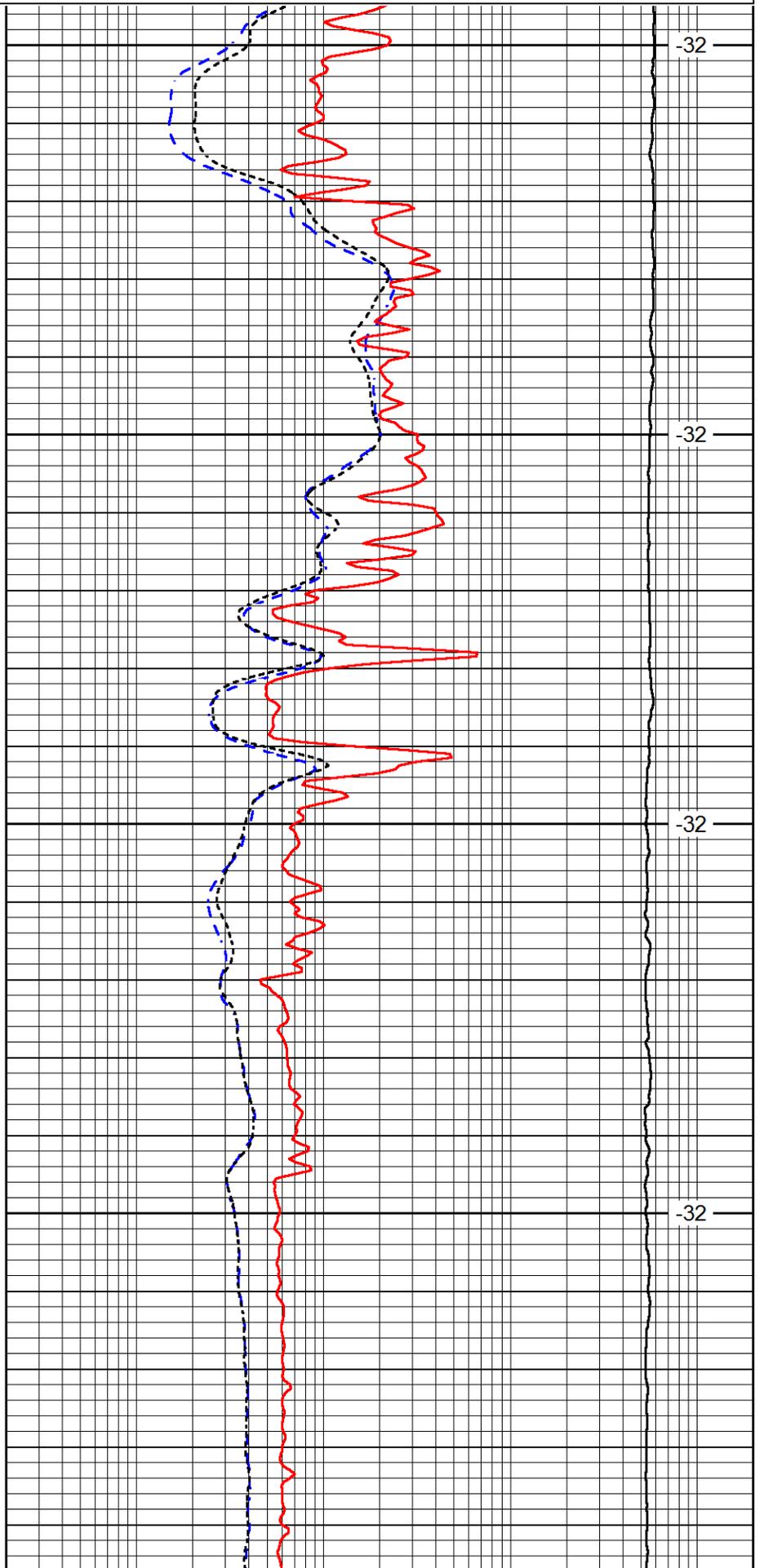
0.2 Shallow Resistivity (Ohm-m) 2000

10000 Line Tension (lb) 0

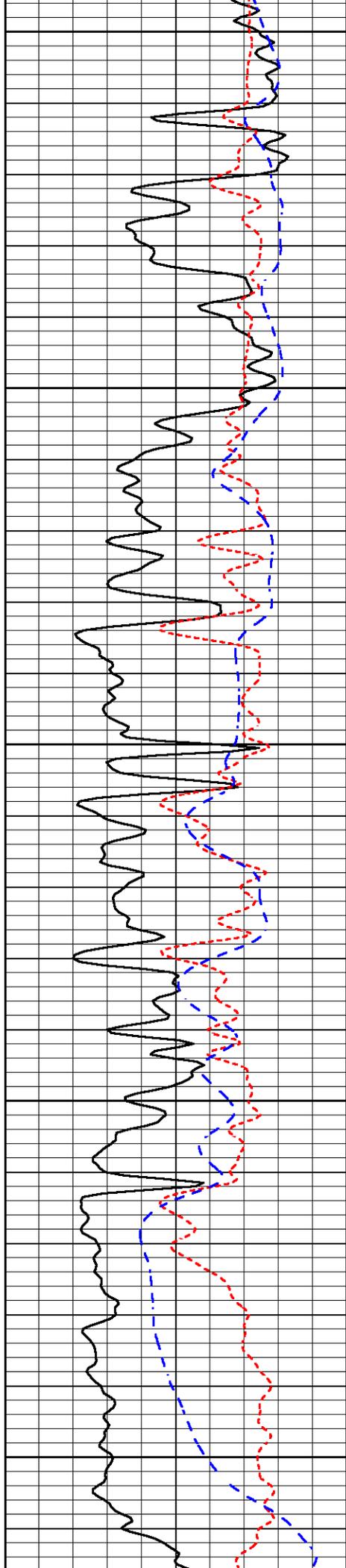
LSPD  
(ft/min)



2700  
2750  
2800  
2850



-32  
-32  
-32  
-32



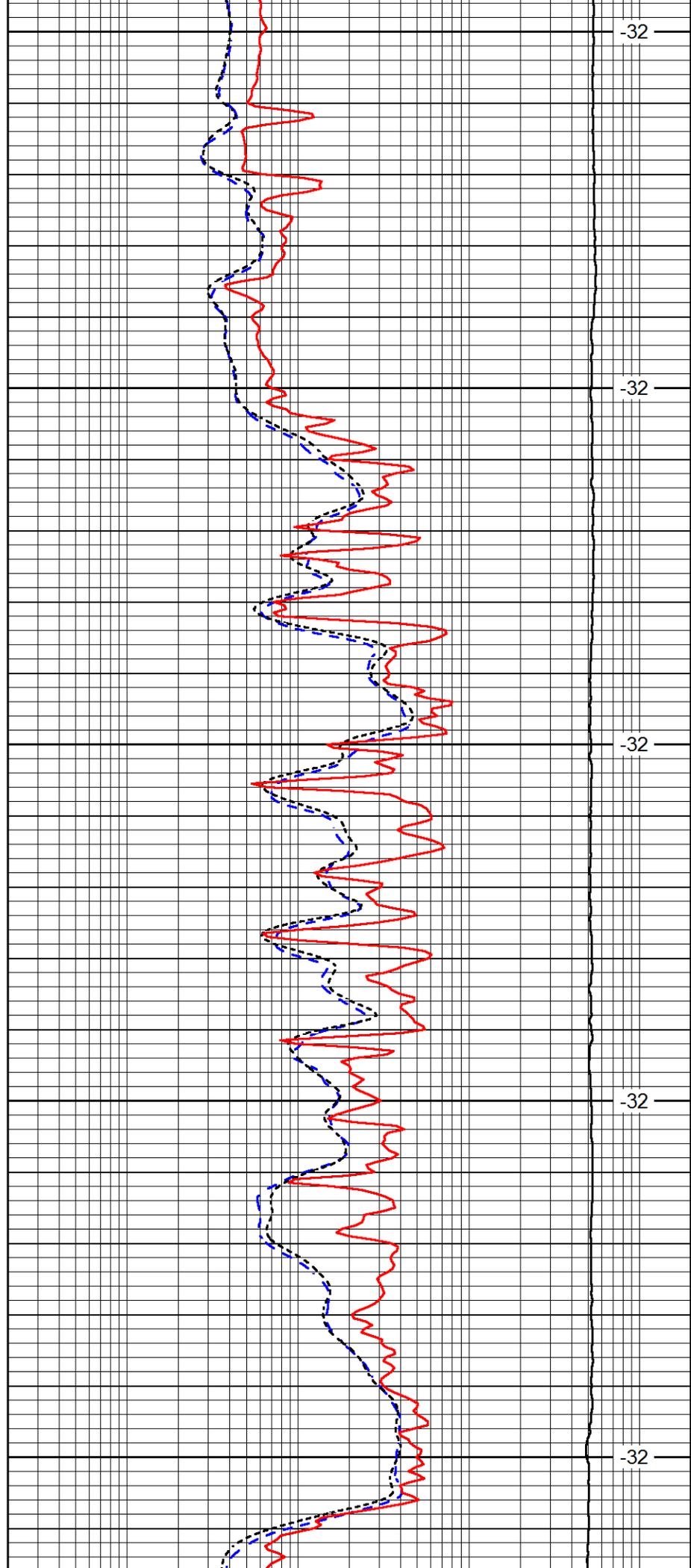
2900

2950

3000

3050

3100



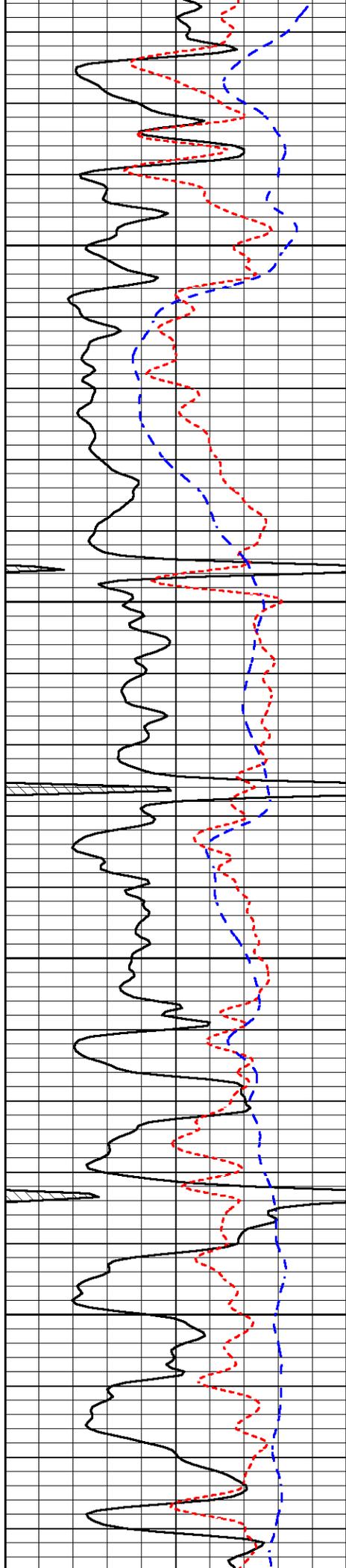
-32

-32

-32

-32

-32

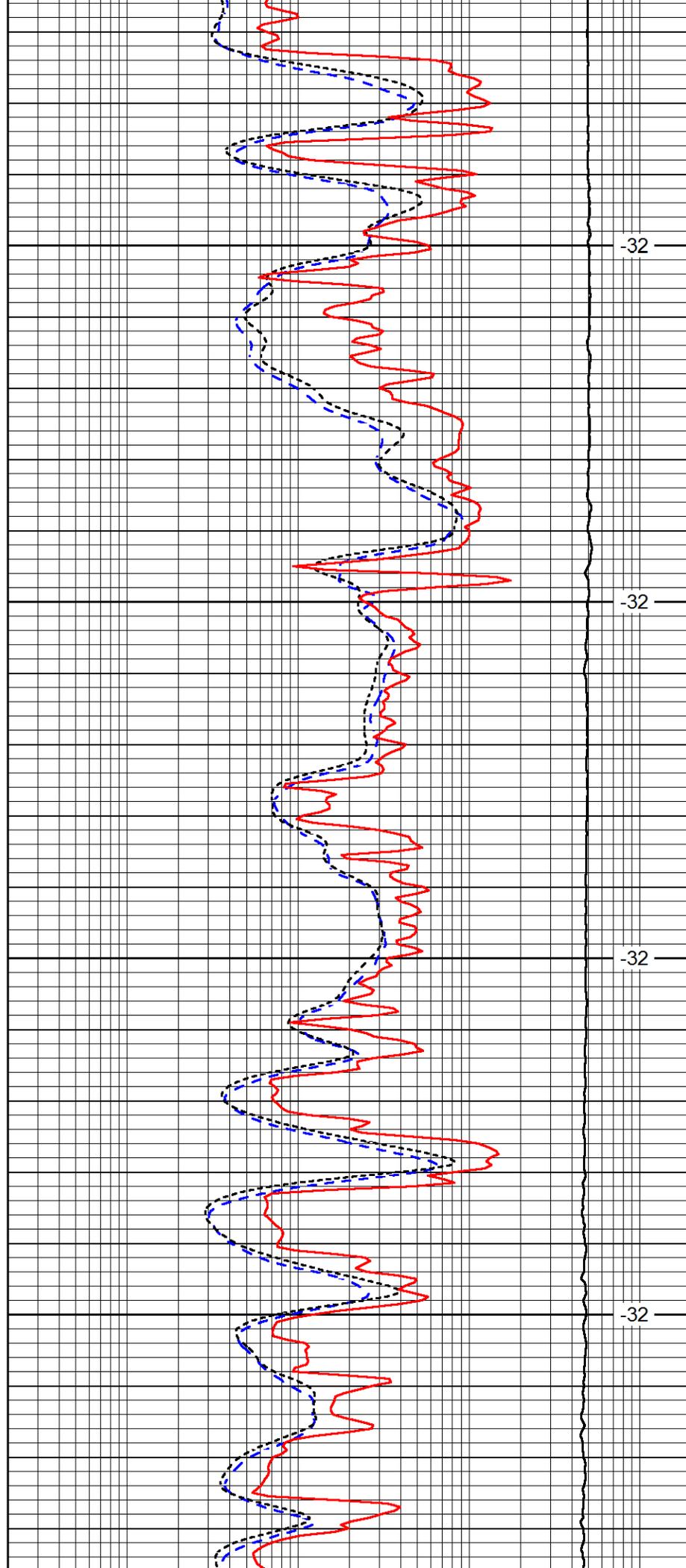


3150

3200

3250

3300

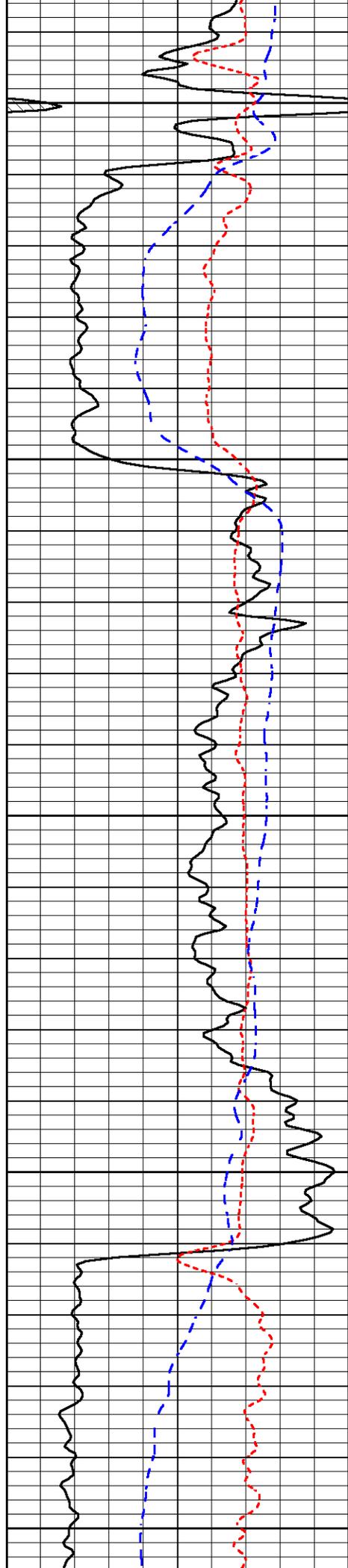


-32

-32

-32

-32



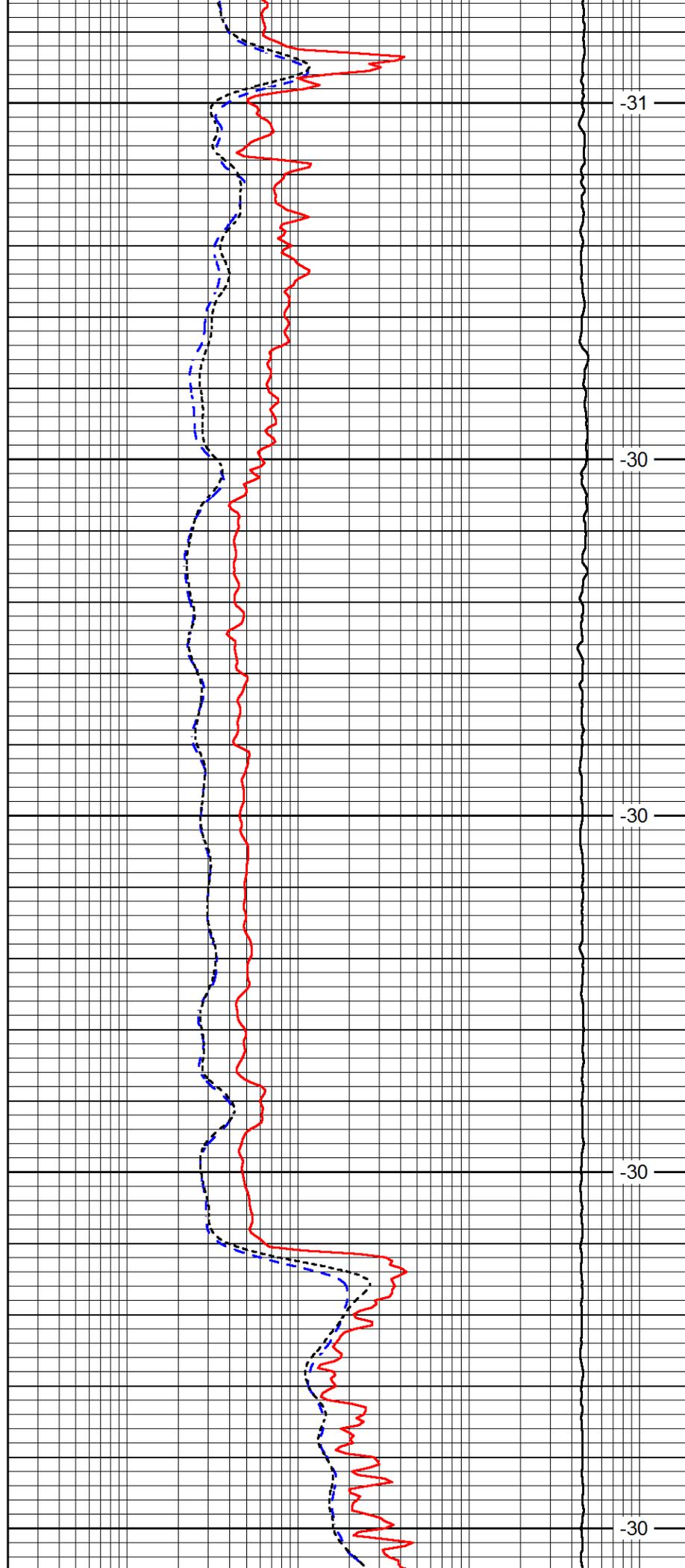
3350

3400

3450

3500

3550



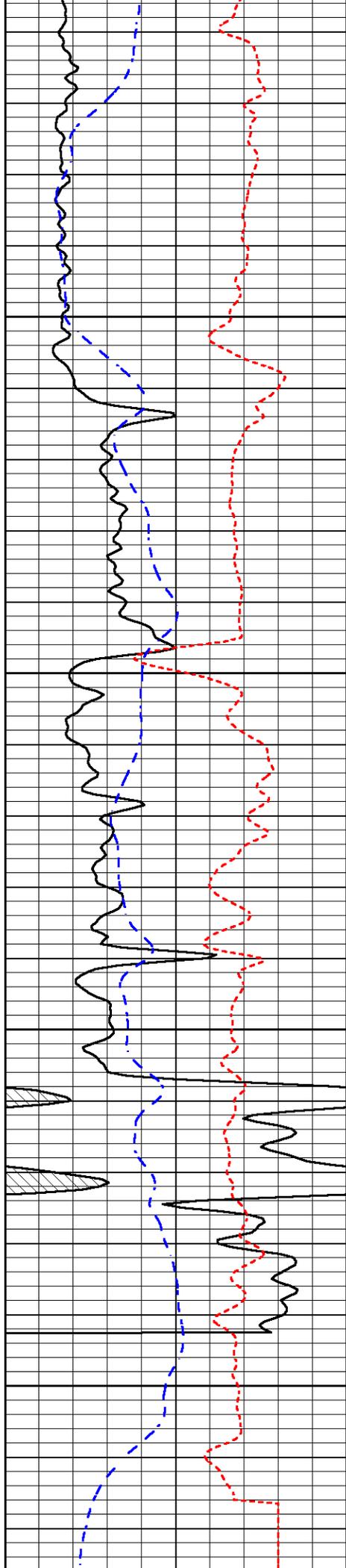
-31

-30

-30

-30

-30

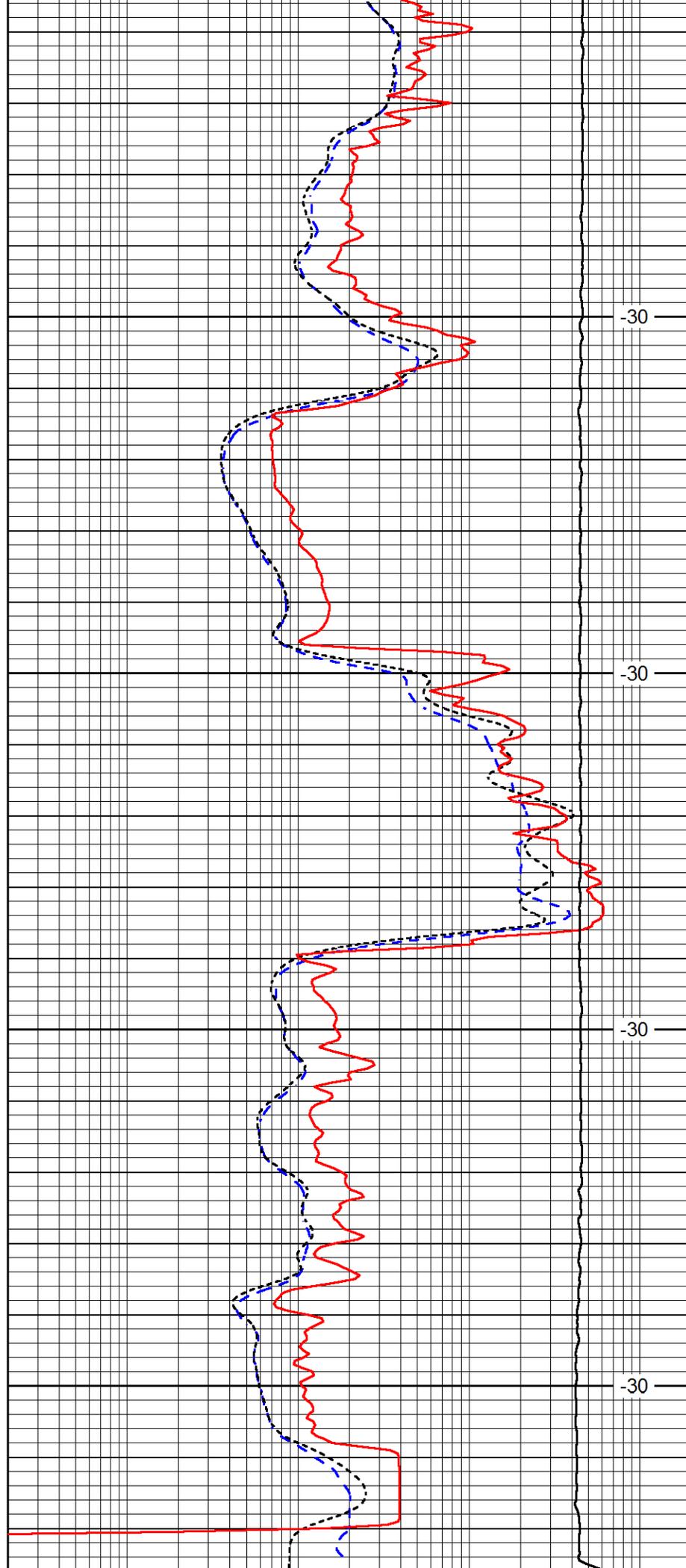


3600

3650

3700

3750



-30

-30

-30

-30

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

0.2	Deep Resistivity (Ohm-m)	2000
0.2	Medium Resistivity (Ohm-m)	2000
0.2	Shallow Resistivity (Ohm-m)	2000
10000	Line Tension (lb)	0

LSPD  
(ft/min)