



Dual Induction Log

DIGITAL LOG (785) 625-3858

API No.	Company Downing-Nelson Oil Co., Inc.			
	Well Vandenberg-Saxton Unit No. 1-18			
	Field Ben			
	County Pawnee State Kansas			
15-145-21,615-00-00	Location		2400' FNL & 1660' FEL	
	Sec: 18	Twp: 20 S	Rge: 20 W	Other Services CNL/CDL MEL/BHCS
Permanent Datum	Ground Level	Elevation 2220		Elevation
Log Measured From	Kelly Bushing	8 Ft. Above Perm. Datum		K.B. 2228
Drilling Measured From	Kelly Bushing			D.F. 2220
Date	11/05/2010			
Run Number	One			
Depth Driller	4368			
Depth Logger	4369			
Bottom Logged Interval	4368			
Top Log Interval	350			
Casing Driller	8.625 @ 394			
Casing Logger	392			
Bit Size	7.875			
Type Fluid in Hole	Chemical			
Salinity, ppm CL	6.000			
Density / Viscosity	9.4	51		
pH / Fluid Loss	8.0	10.8		
Source of Sample	Flowline			
Rm @ Meas. Temp	.70 @ 65			
Rmf @ Meas. Temp	.53 @ 65			
Rmc @ Meas. Temp	.95 @ 65			
Source of Rmf / Rmc	Charts			
Rm @ BHT	.20 @ 122			
Operating Rig Time	5 1/2 Hours			
Max Rec. Temp. F	122			
Equipment Number	4			
Location	Hays			
Recorded By	K. Bange			
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.

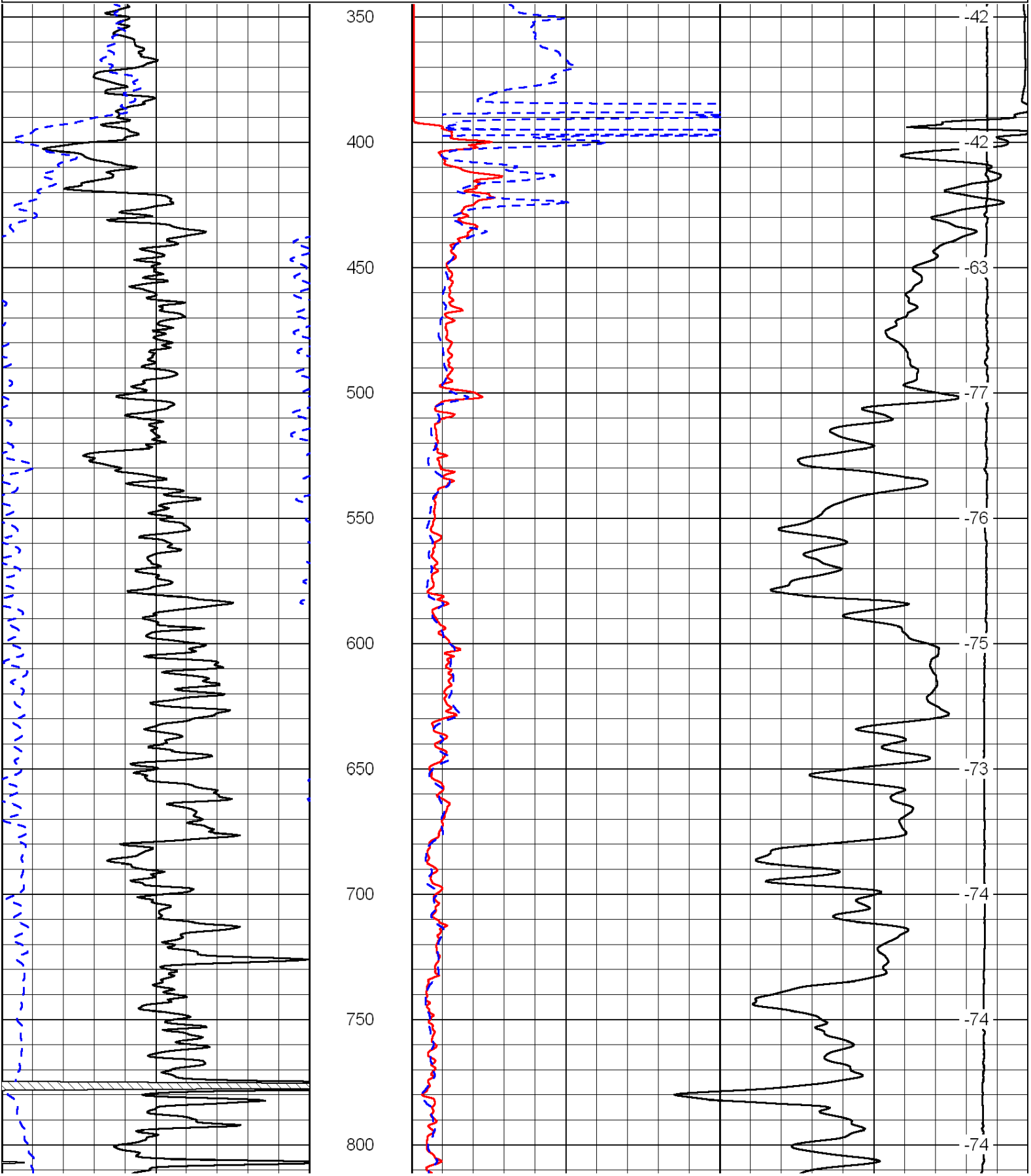
Comments

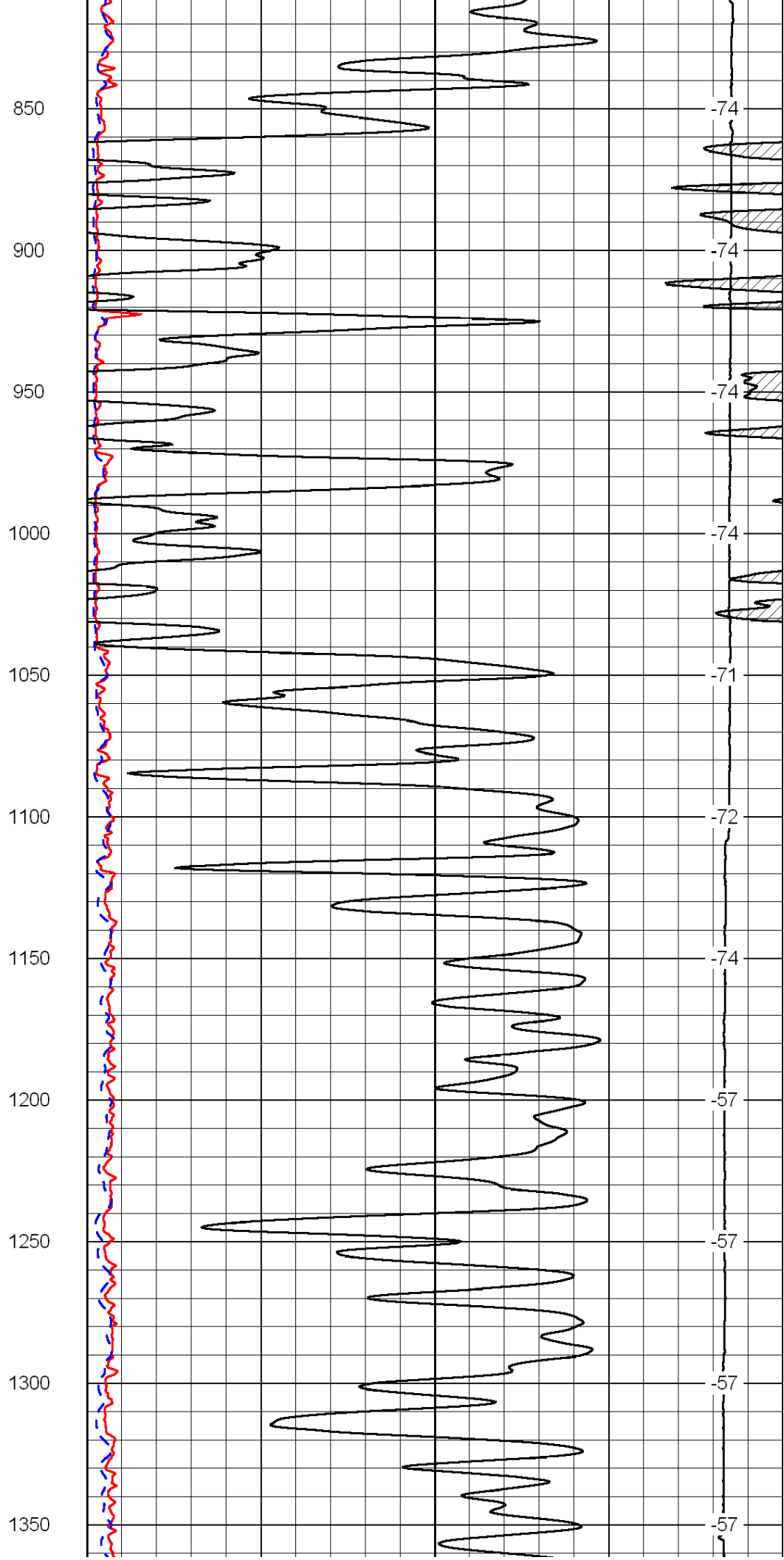
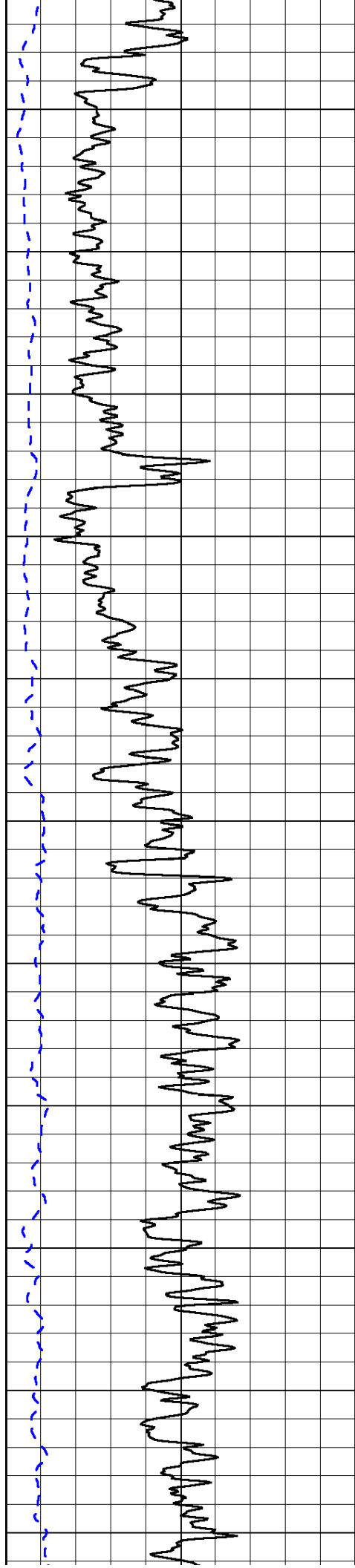
Thank you for using Log-Tech, Inc.
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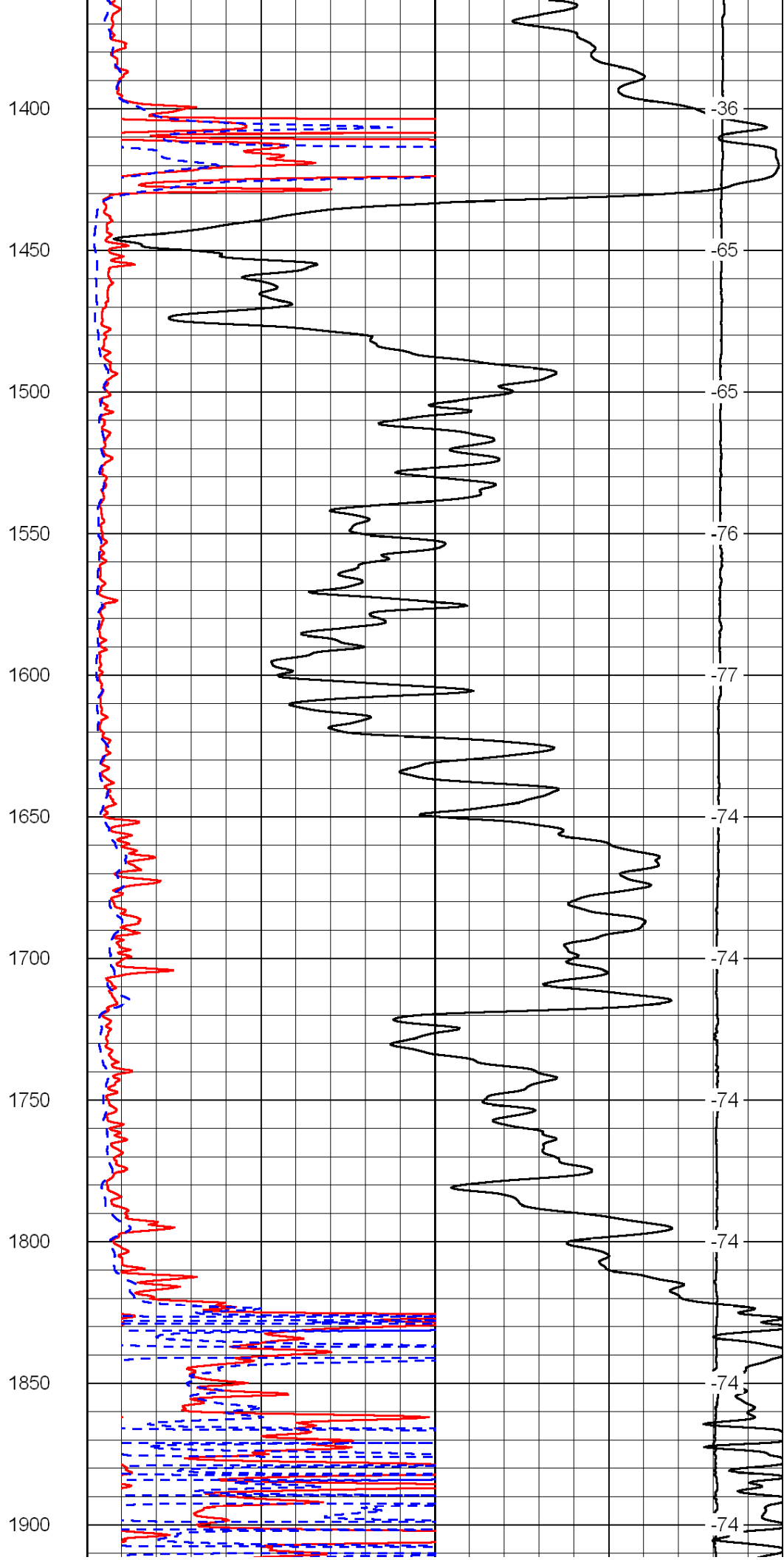
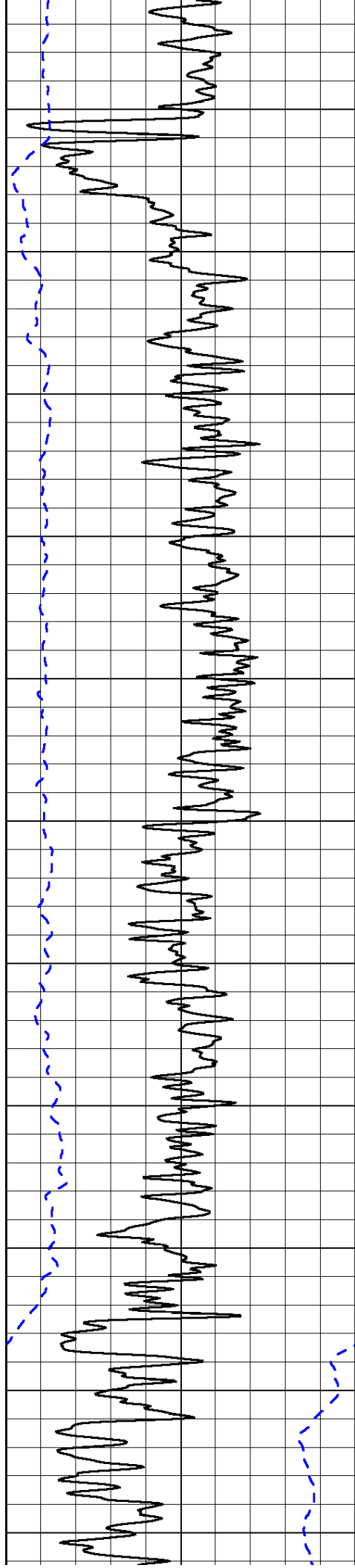
Alexander, 11 S to X rd, 1 W, 1/2 S, W into

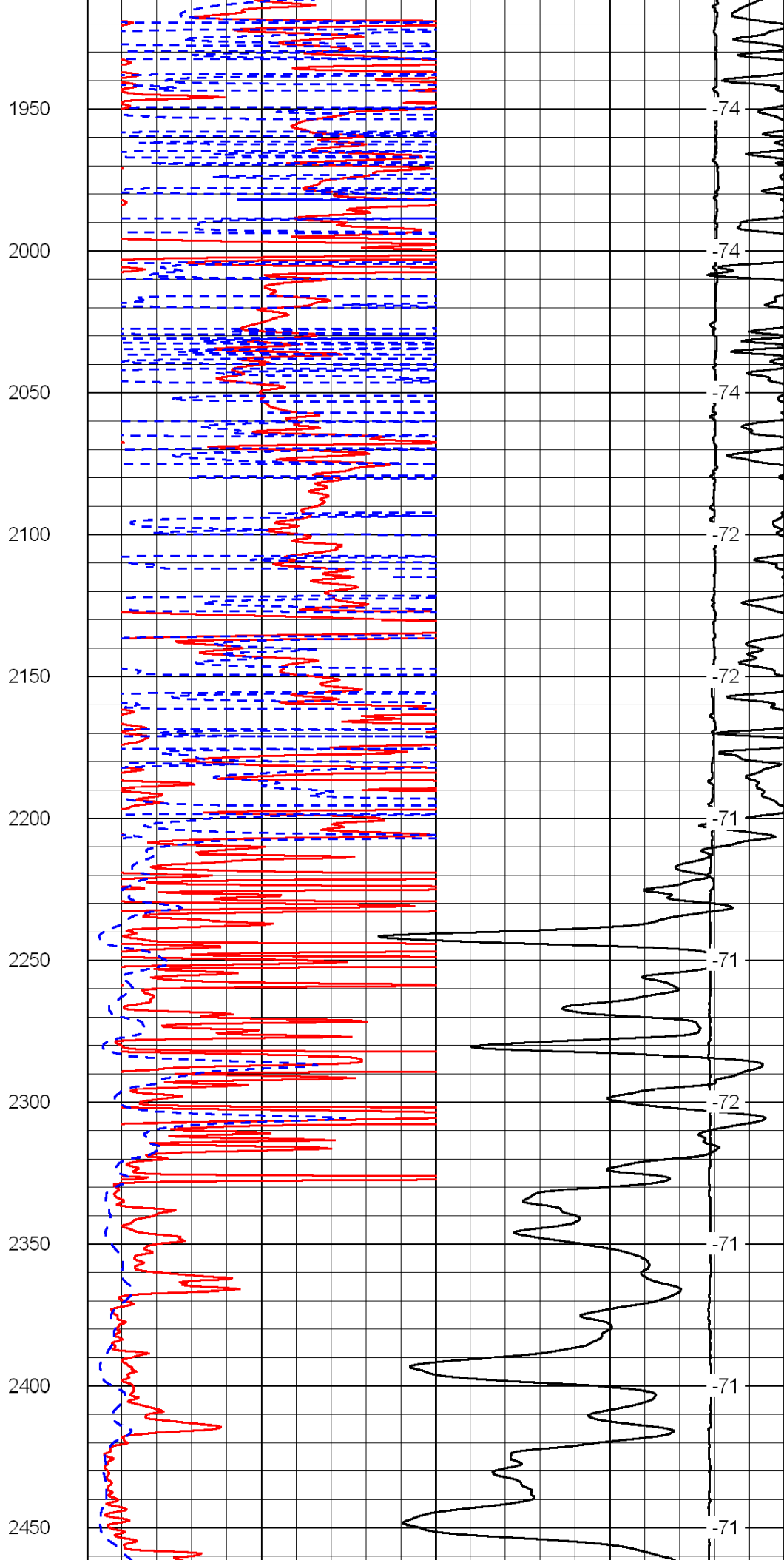
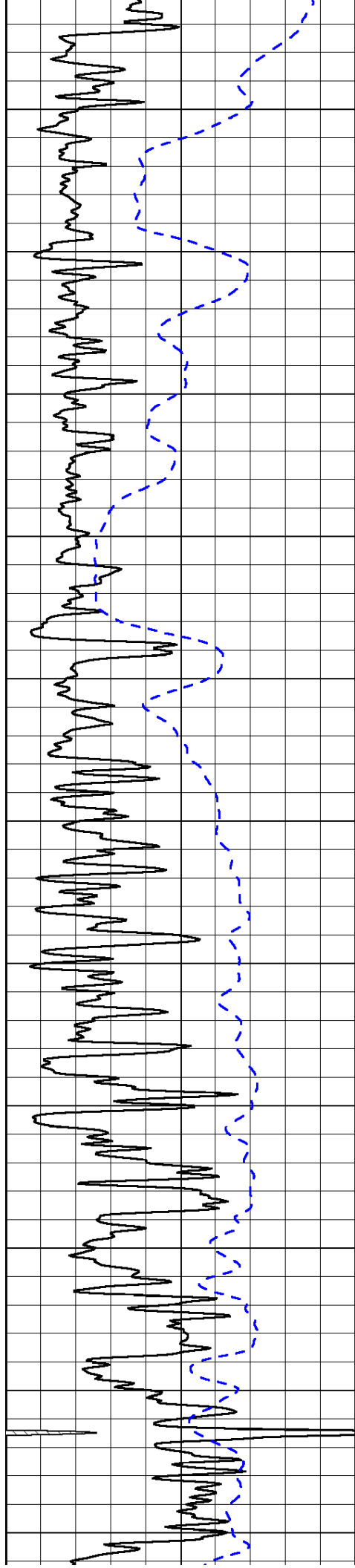
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Presentation Format: dil2in
Dataset Creation: Fri Nov 05 22:33:20 2010
Charted by: Depth in Feet scaled 1:600

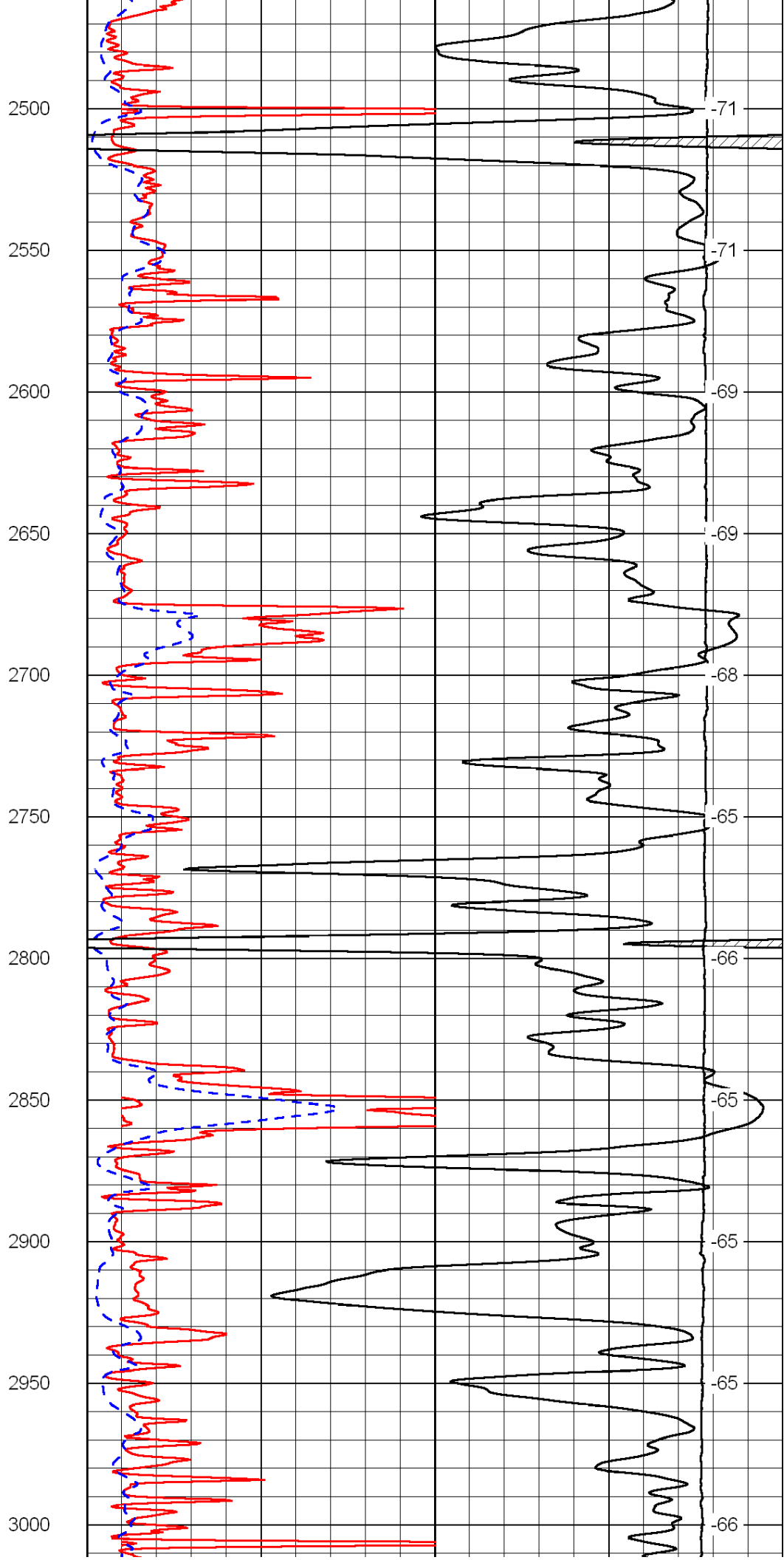
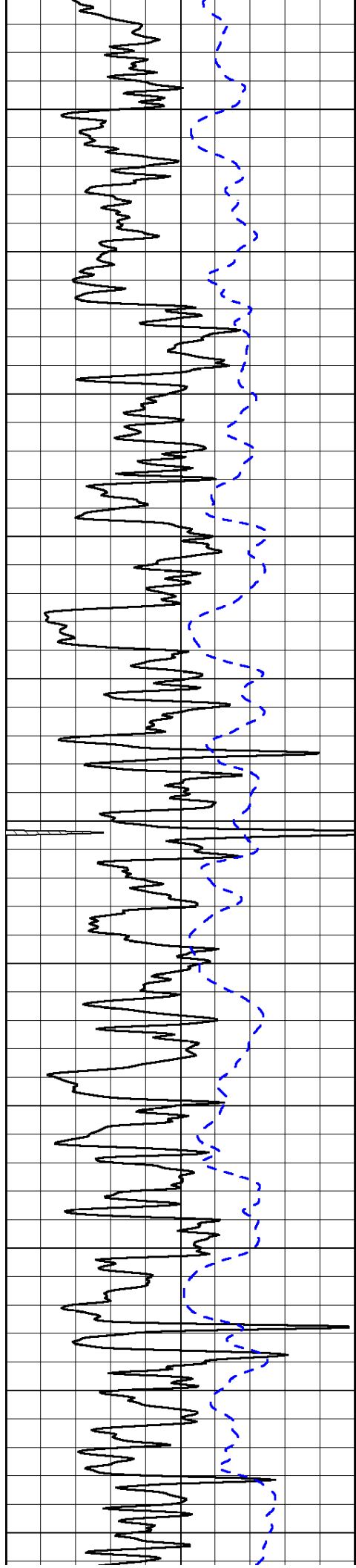
Charted by: Depth in Feet scaled 1:500								
0	Gamma Ray	150	0	Shallow Resistivity	50	LSPD		
-200	SP (mV)	0	0	Deep Resistivity	50			
			1000	Conductivity		0		
			15000	Line Tension		0		
			50	Shallow Resistivity	500			
			50	Deep Resistivity	500			

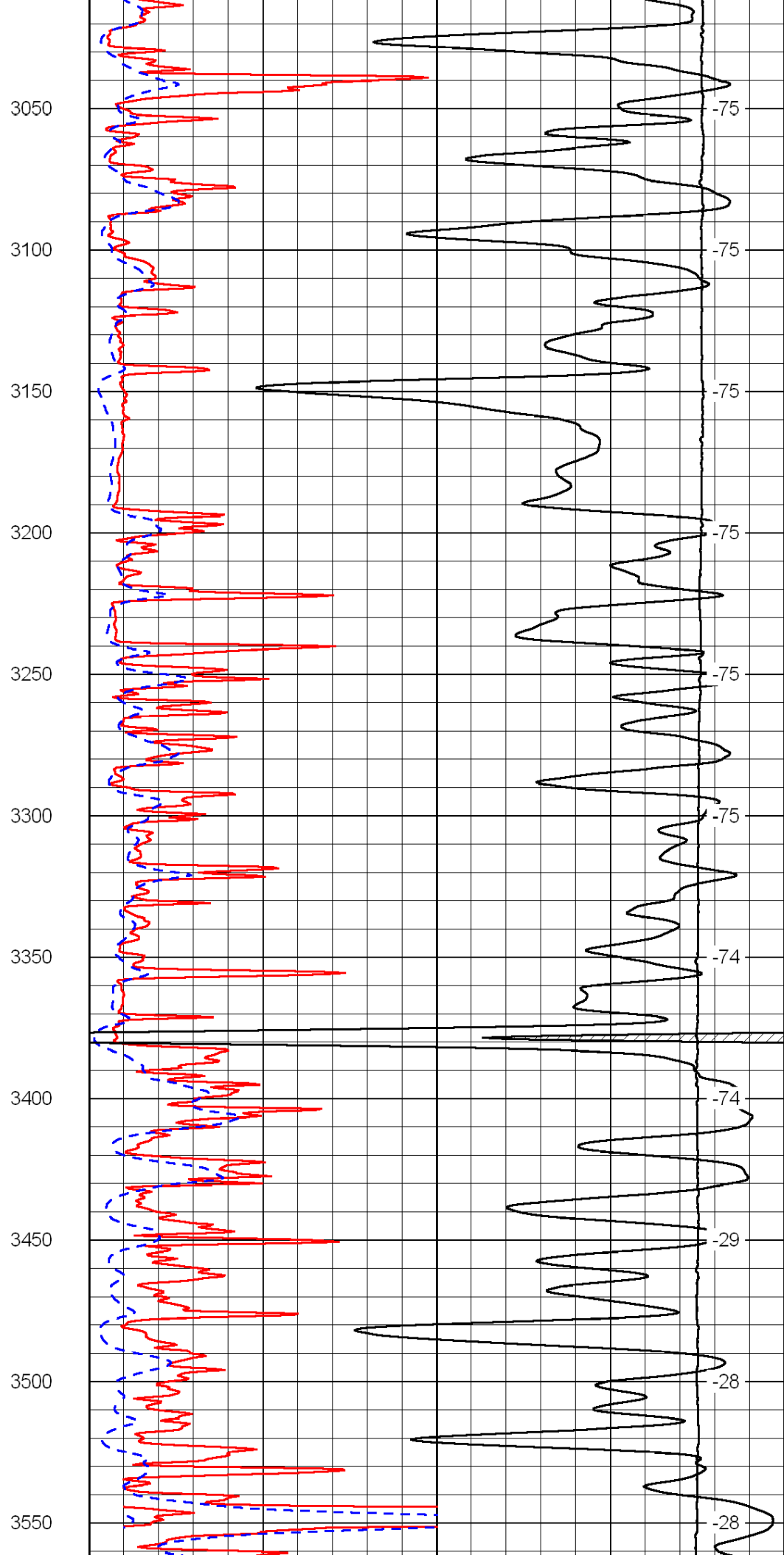
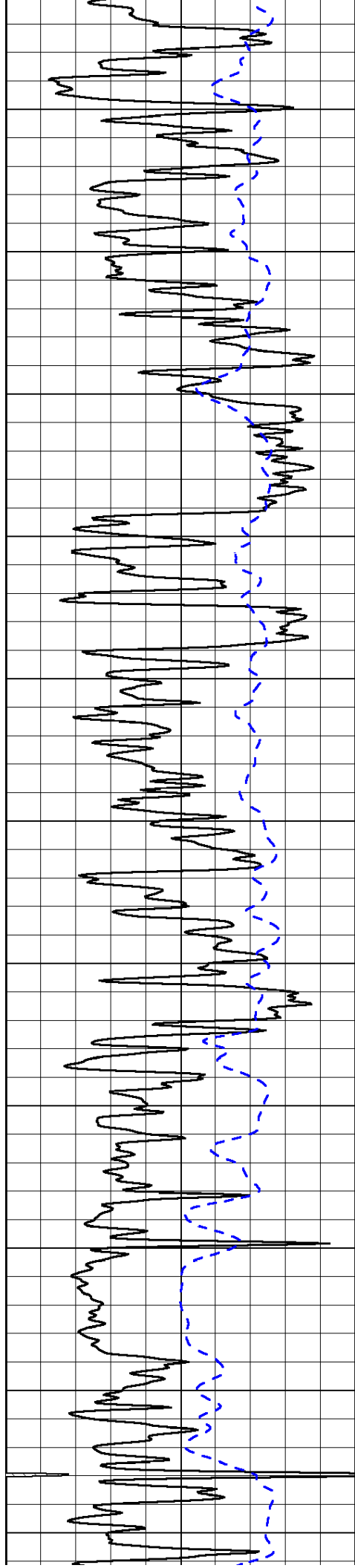


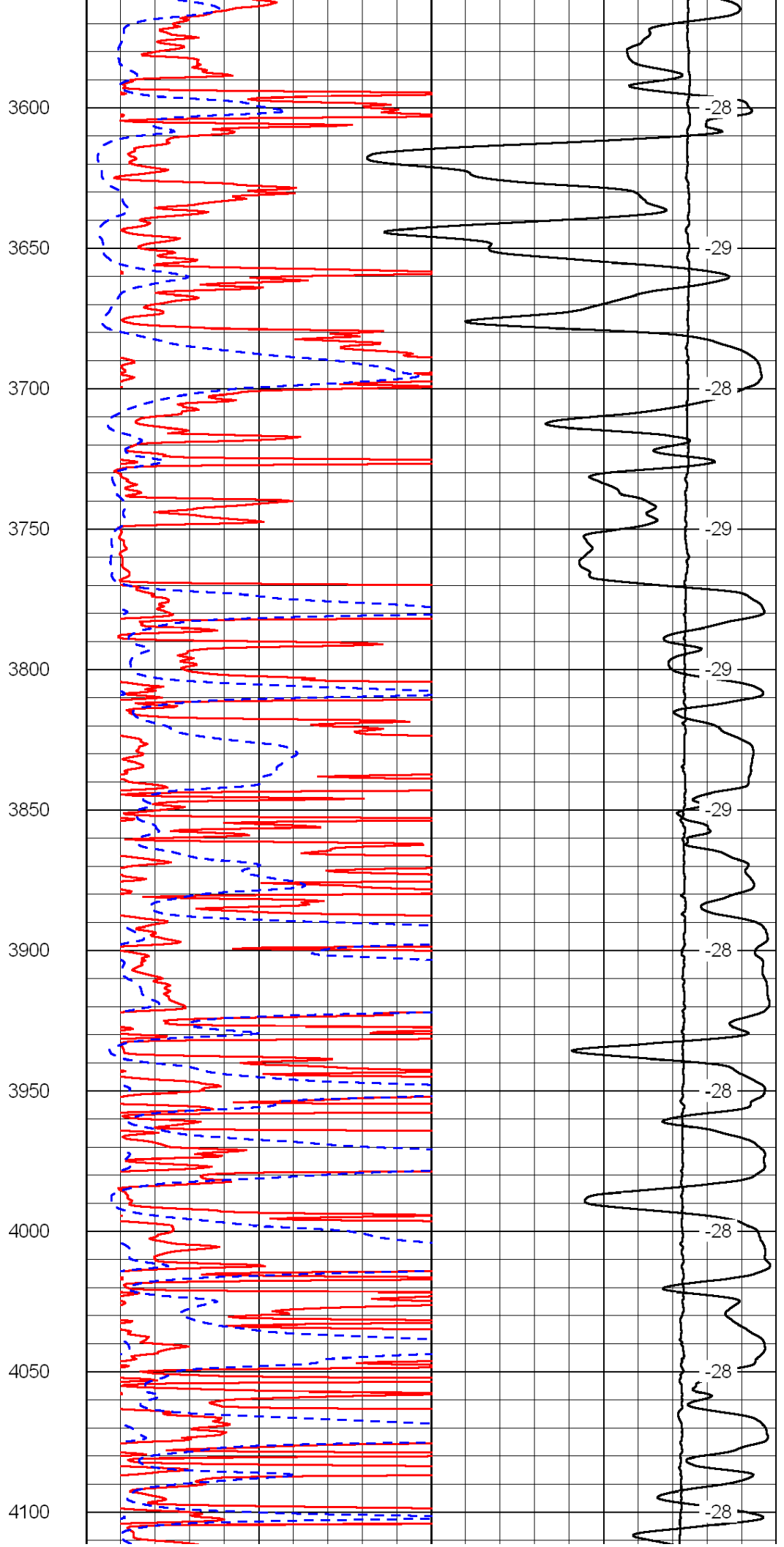
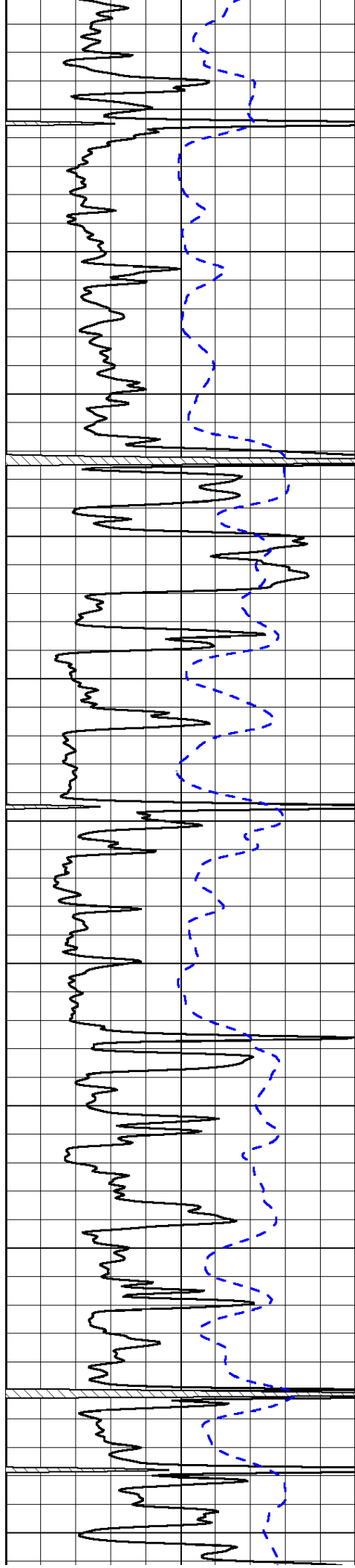


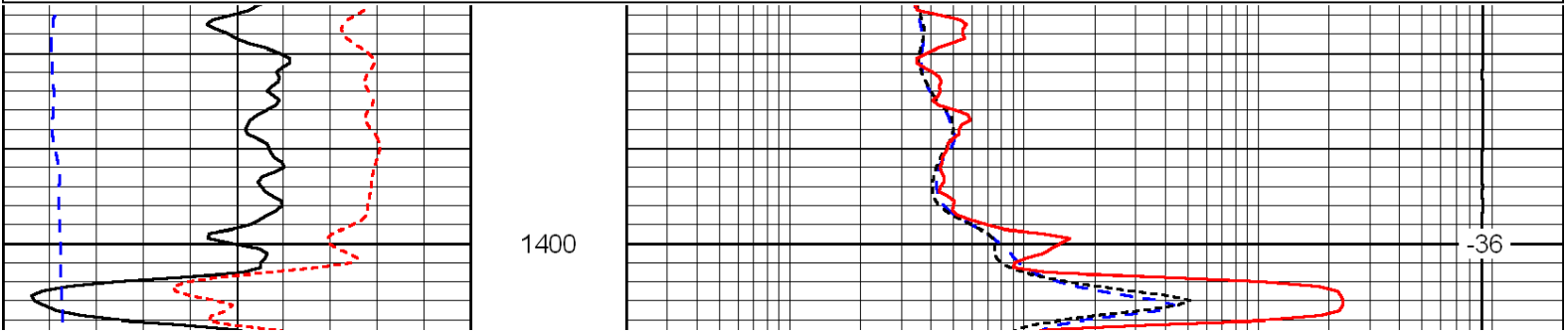
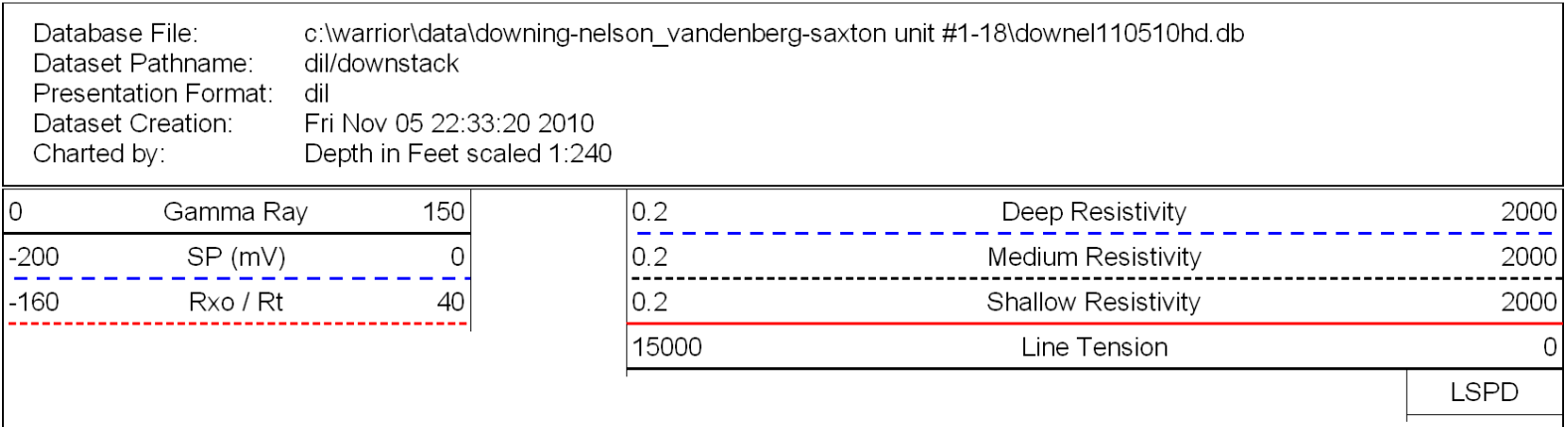
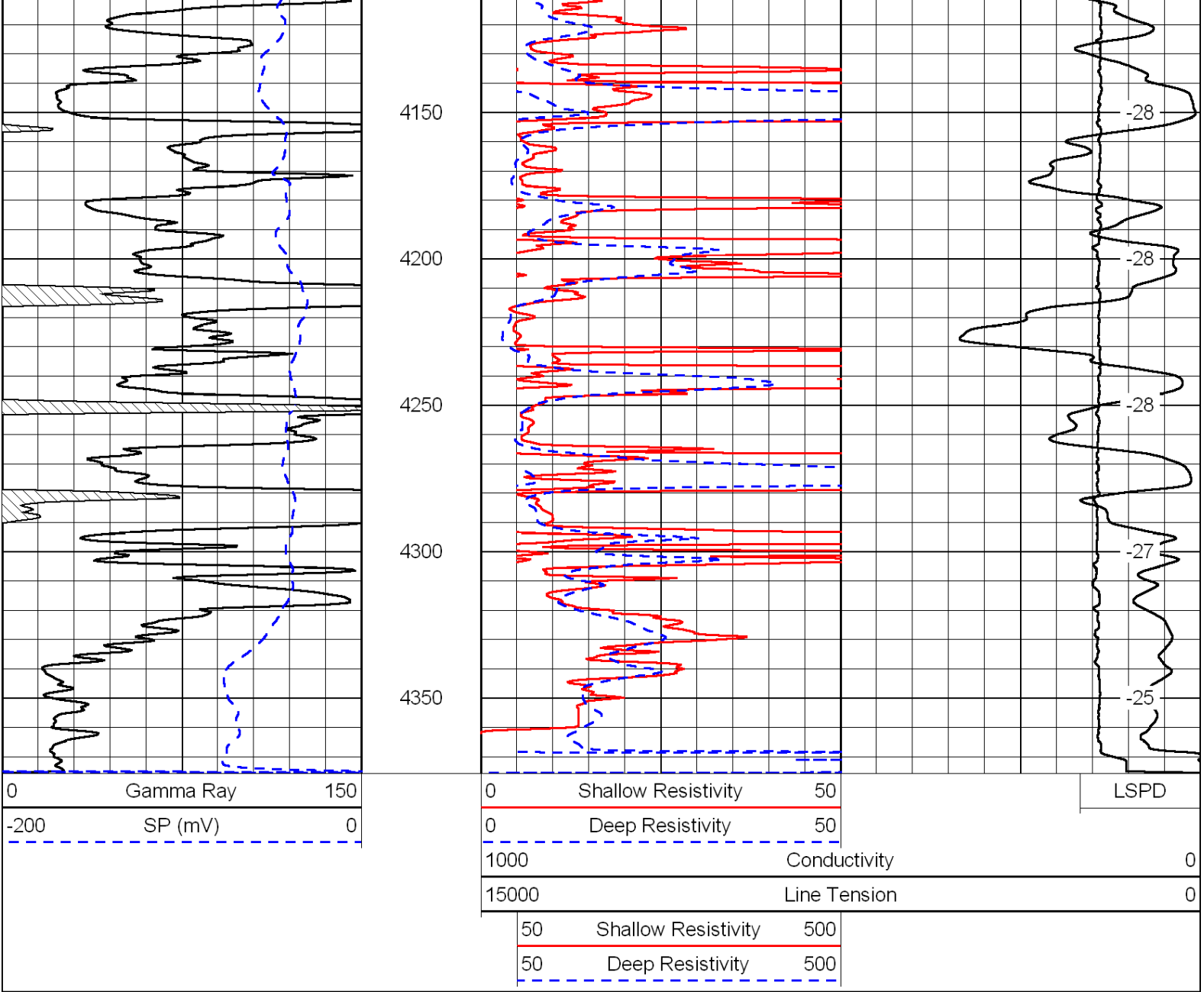


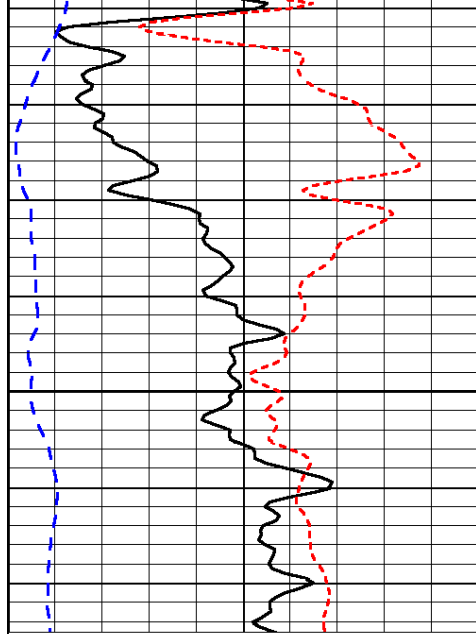






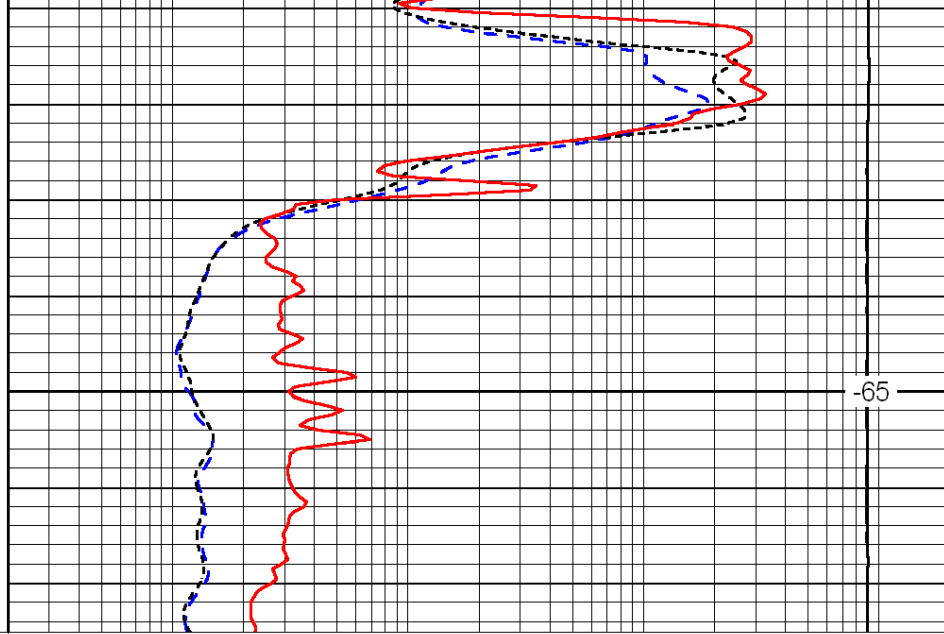






0	Gamma Ray	150
-200	SP (mV)	0
-160	Rxo / Rt	40

1450



0.2	Deep Resistivity	2000
0.2	Medium Resistivity	2000
0.2	Shallow Resistivity	2000
15000	Line Tension	0

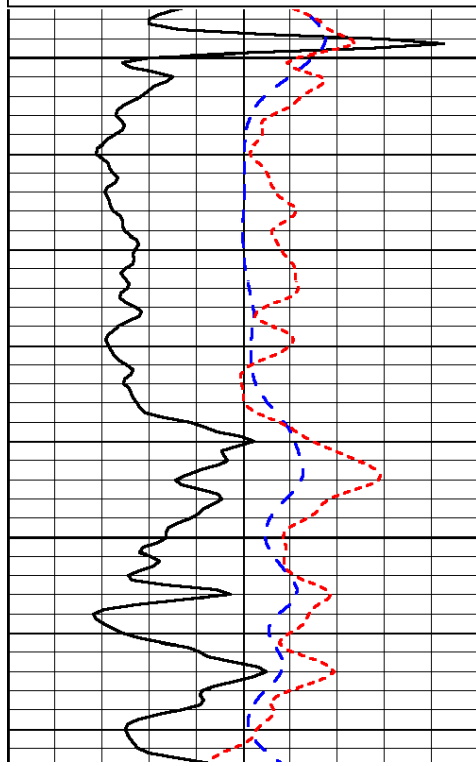
LSPD

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 Presentation Format: dil
 Dataset Creation: Fri Nov 05 22:33:20 2010
 Charted by: Depth in Feet scaled 1:240

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-200	SP (mV)	0
-160	Rxo / Rt	40

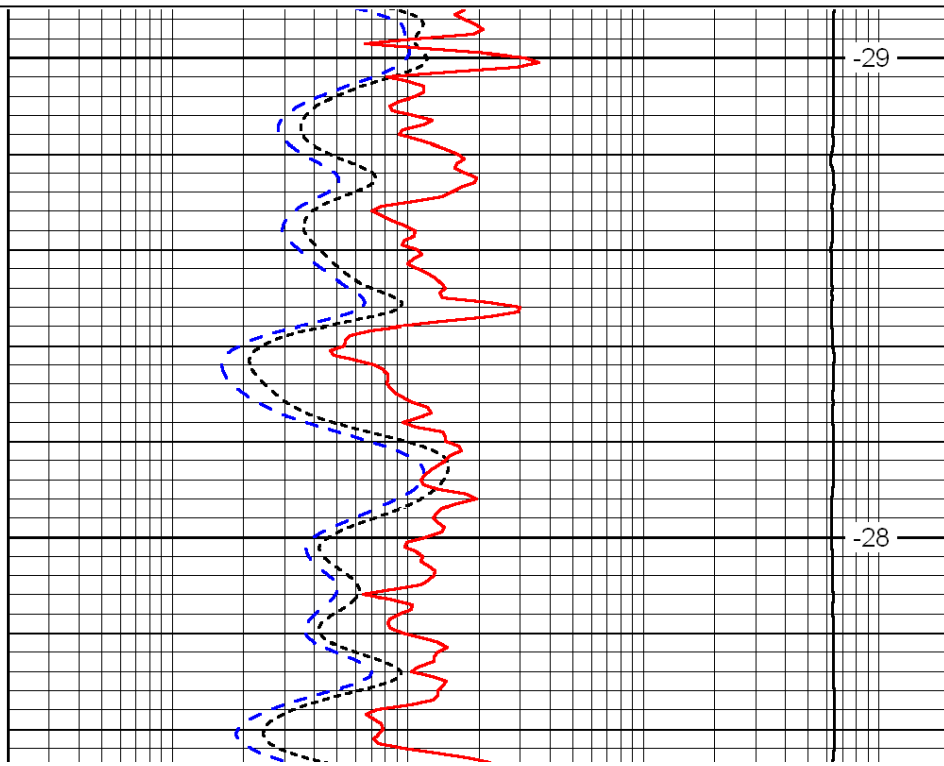
0.2	Deep Resistivity	2000
0.2	Medium Resistivity	2000
0.2	Shallow Resistivity	2000
15000	Line Tension	0

LSPD



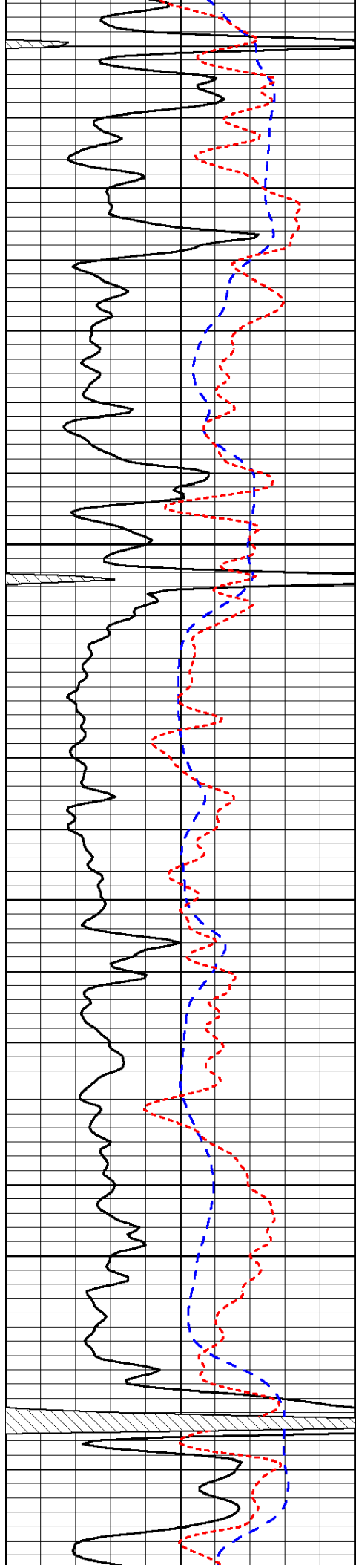
3450

3500



-29

-28

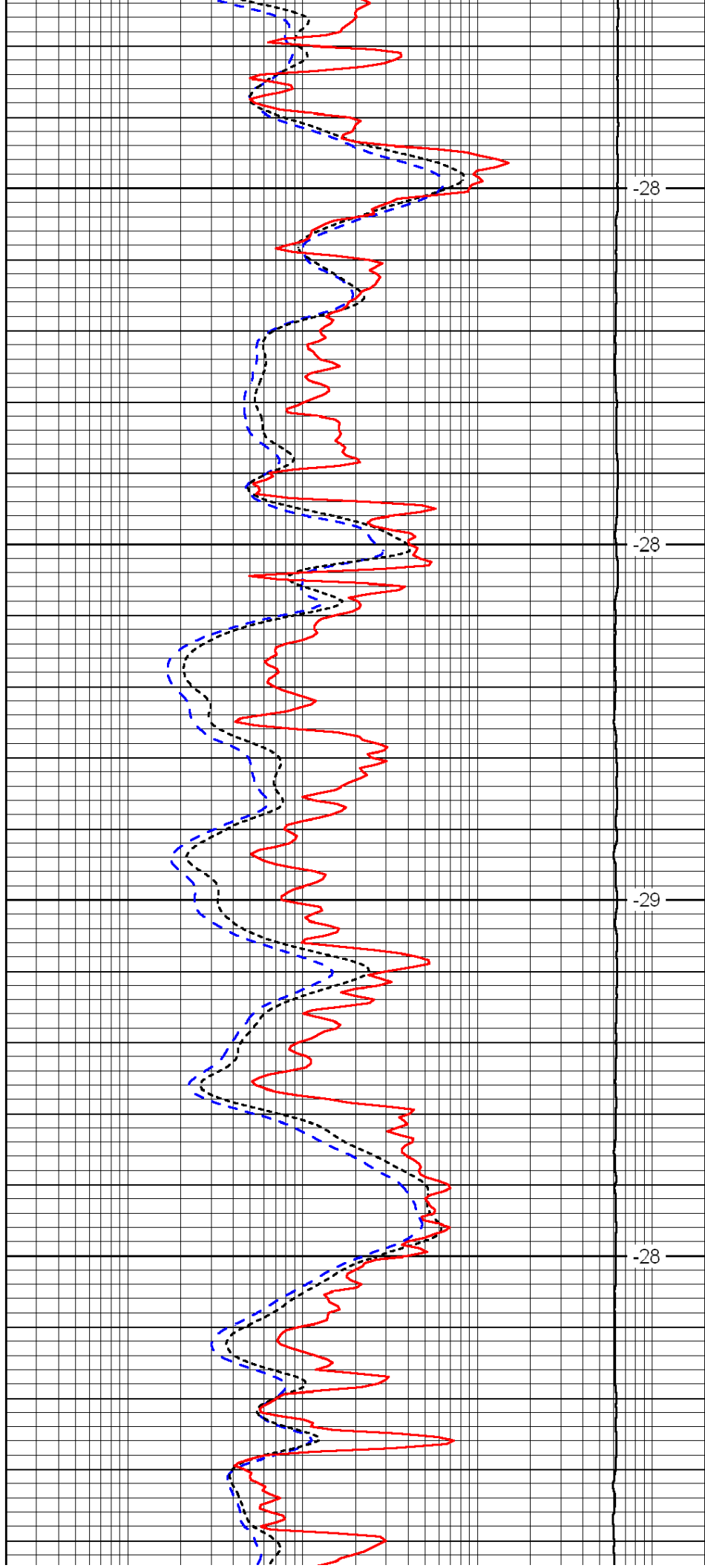


3550

3600

3650

3700

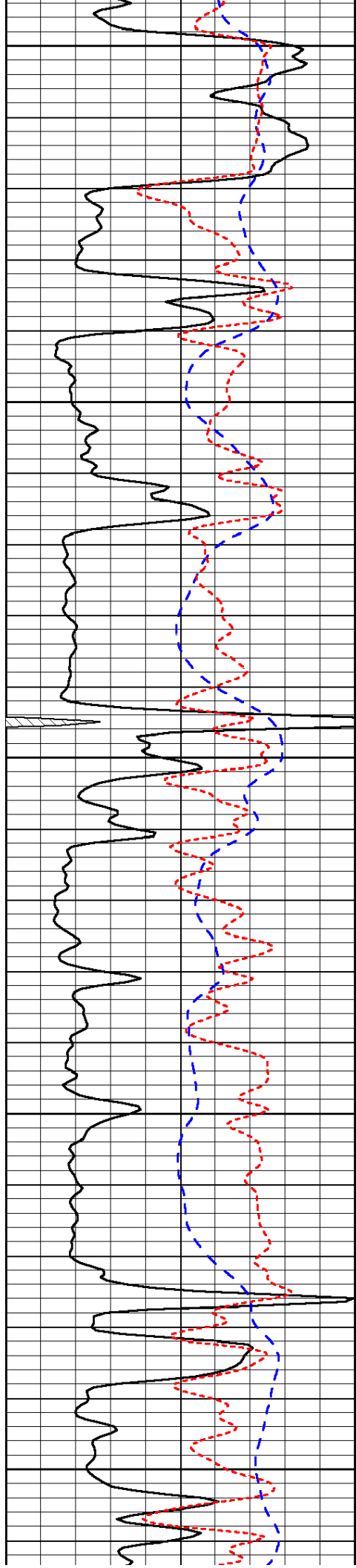


-28

-28

-29

-28



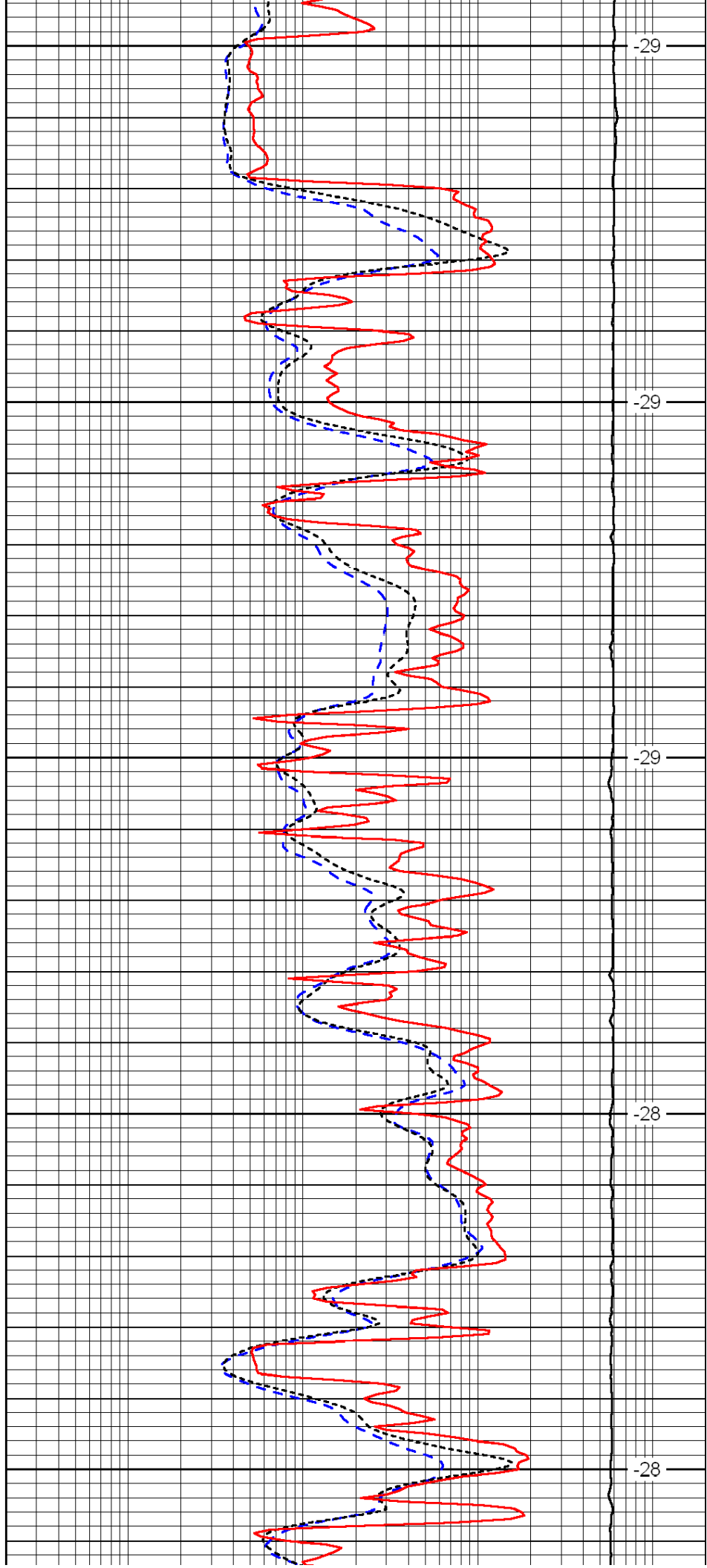
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3800

3850

3900

3950



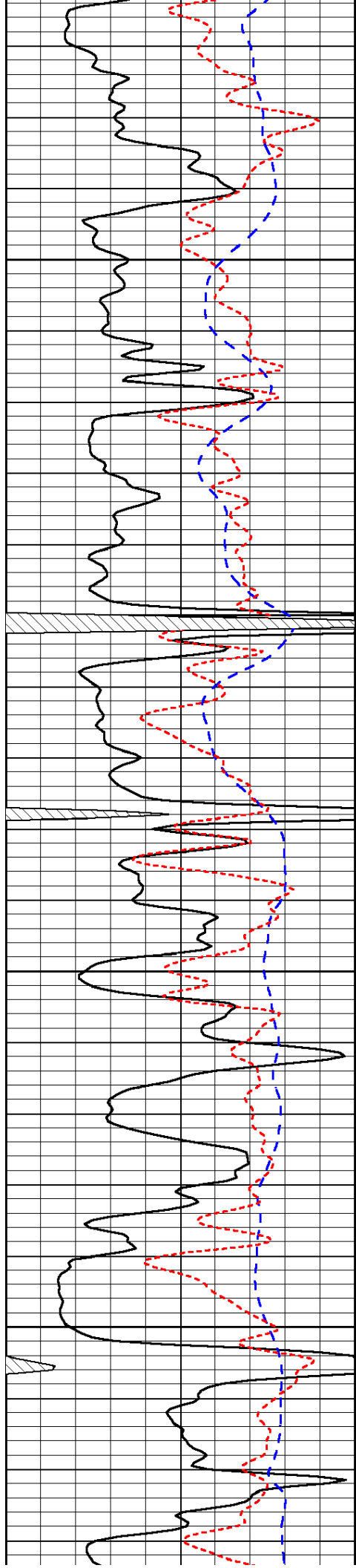
-29

-29

-29

-28

-28

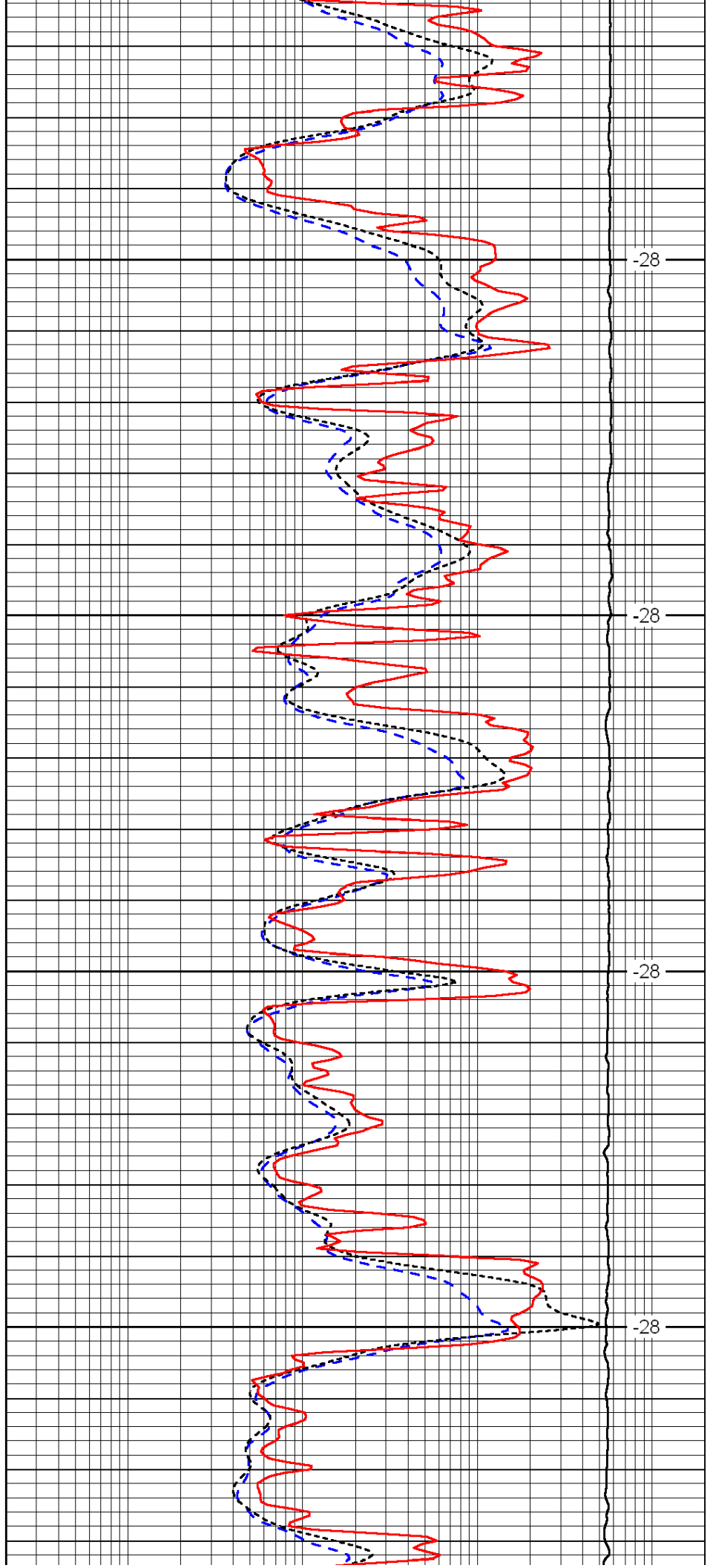


4000

4050

4100

4150

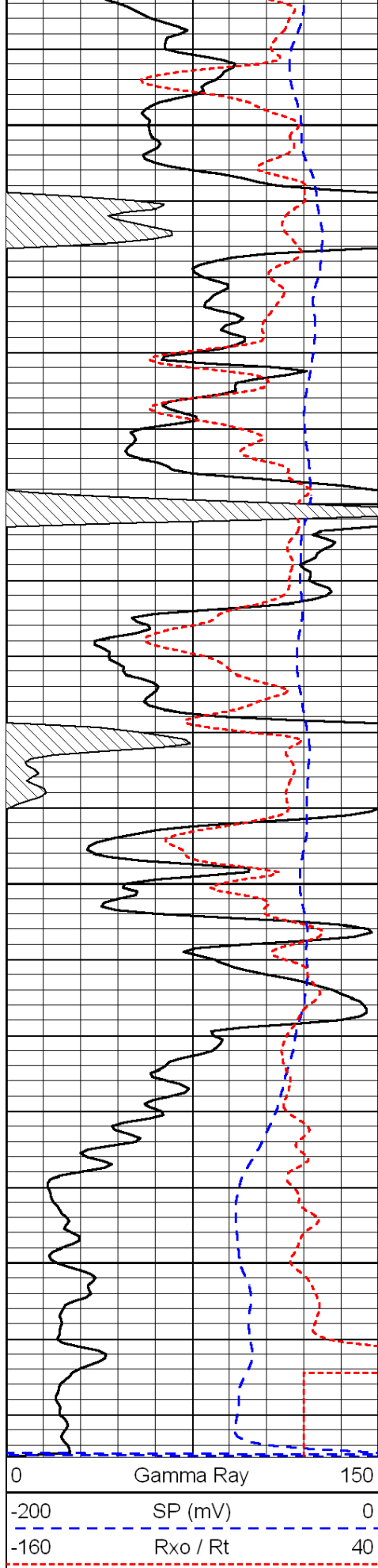


-28

-28

-28

-28



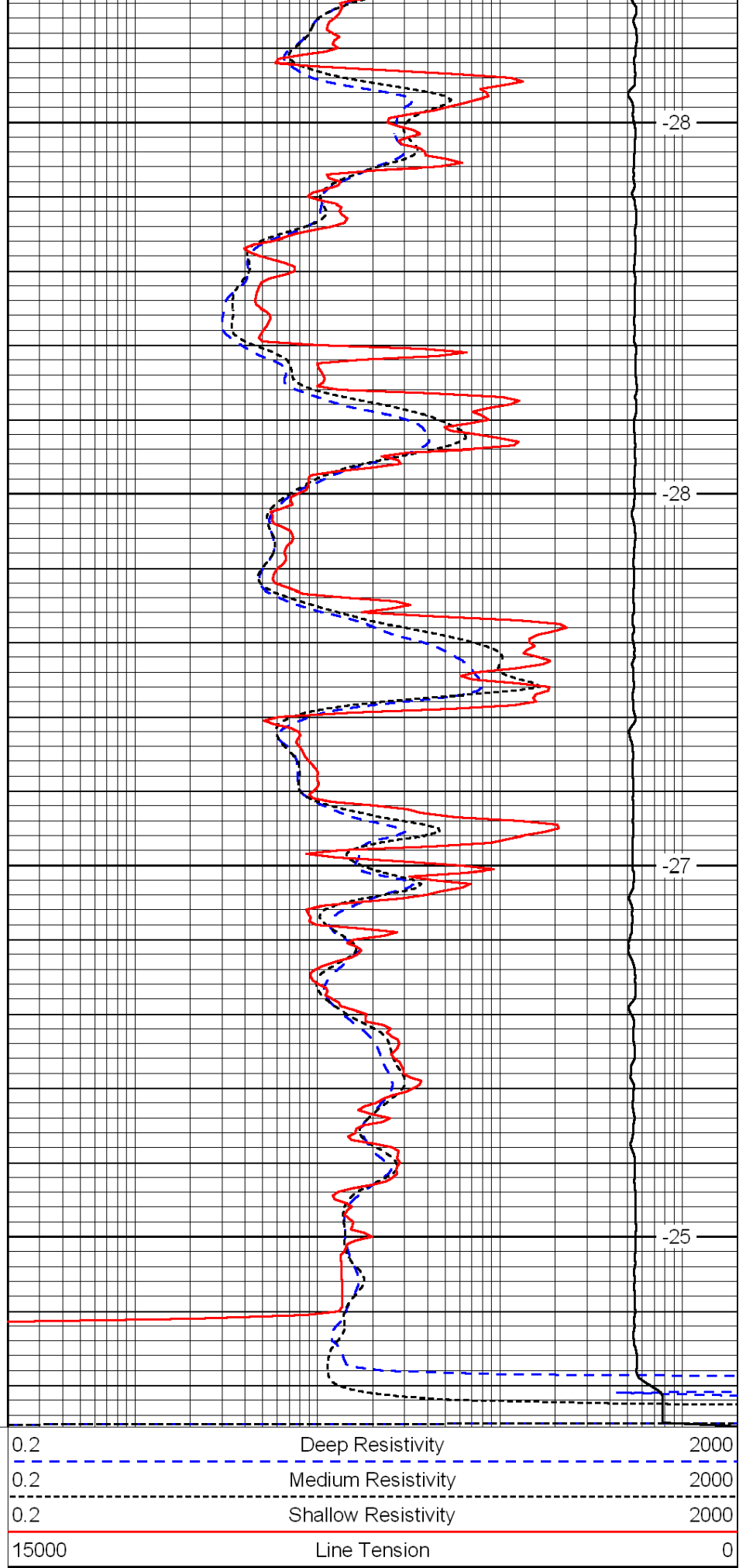
4200

4250

4300

4350

0	Gamma Ray	150
-200	SP (mV)	0
-160	Rxo / Rt	40



-28

-28

-27

-25

0.2	Deep Resistivity	2000
0.2	Medium Resistivity	2000
0.2	Shallow Resistivity	2000
15000	Line Tension	0

LSPD