



Dual Induction Log

Pioneer Energy Services

API No.	15-171-21,050-00-00		
Company	Landmark Resources, Inc.		
Well	Frick #1-5		
Field	Wildcat		
County	Scott	State	Kansas
Location	2280' FNL & 1469' FWL		Other Services CNL/CDL MEL/BHCS
Sec: 5	Twp: 17S	Rge: 33W	Elevation K.B. 3091 D.F. G.L. 3080
Permanent Datum	Ground Level	Elevation 3080	
Log Measured From	Kelly Bushing	11 Ft. Above Perm. Datum	
Drilling Measured From	Kelly Bushing		
Date	4/17/2014		
Run Number	One		
Depth Driller	4820		
Depth Logger	4820		
Bottom Logged Interval	4819		
Top Log Interval	250		
Casing Driller	8.625 @ 264		
Casing Logger	266		
Bit Size	7.875		
Type Fluid in Hole	Chemical		
Salinity, ppm CL	4,500		
Density / Viscosity	9.5 57		
pH / Fluid Loss	10.5 8.8		
Source of Sample	Flowline		
Rm @ Meas. Temp	.4 @ 55		
Rmf @ Meas. Temp	.3 @ 55		
Rmc @ Meas. Temp	.54 @ 55		
Source of Rmf / Rmc	Charts		
Rm @ BHT	.18 @ 124		
Operating Rig Time	5 Hours		
Max Rec. Temp. F	124		
Equipment Number	17		
Location	Hays		
Recorded By	C. Desaire		
Witnessed By	Terry McLeod		

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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

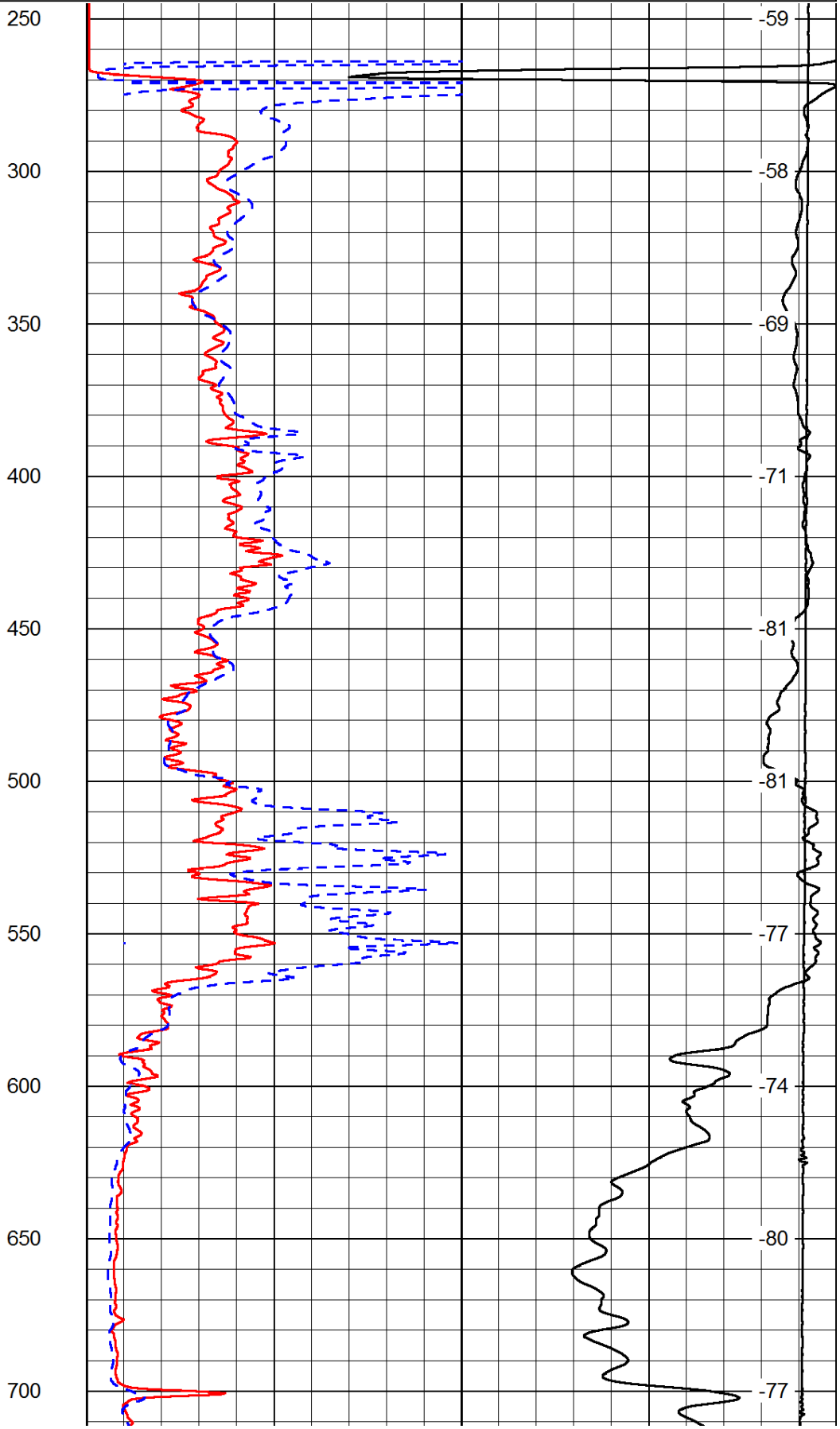
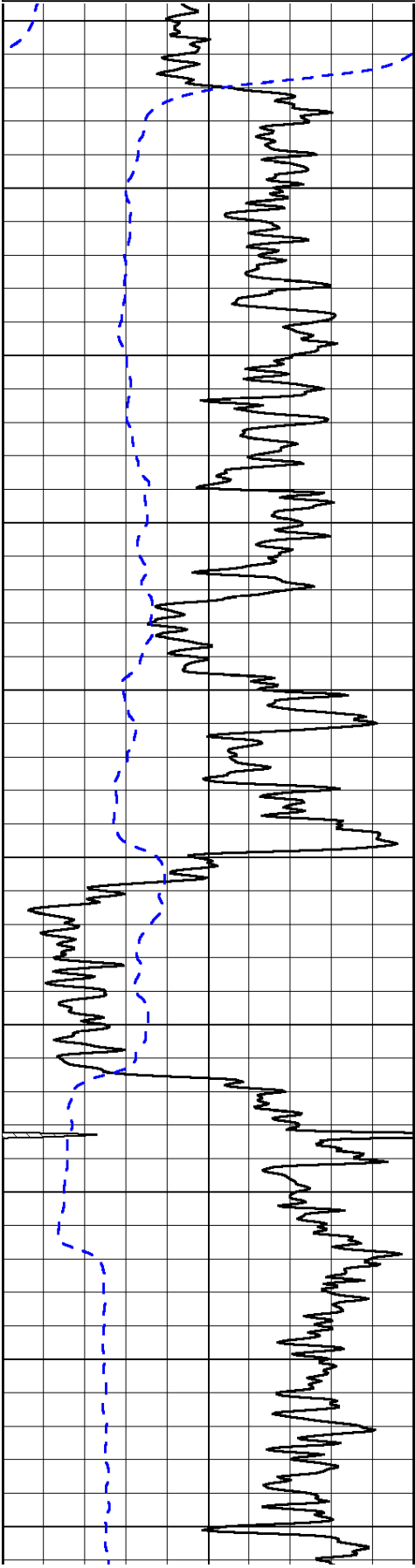
Thank you for using Pioneer Energy Services
www.pioneerres.com
785 625 3858

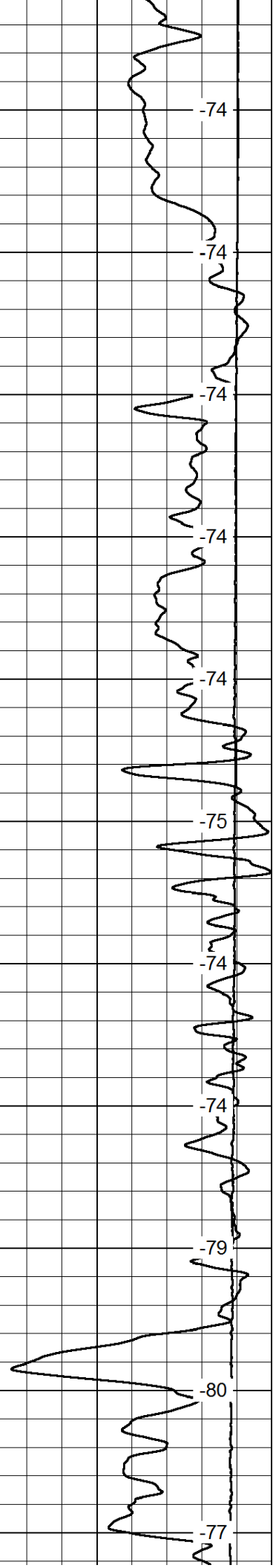
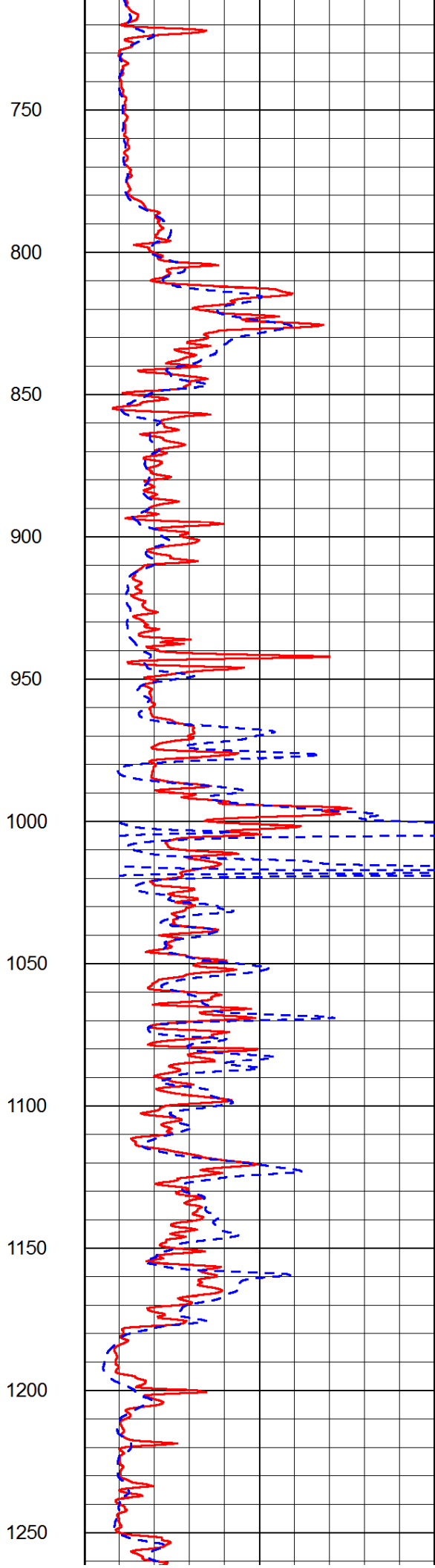
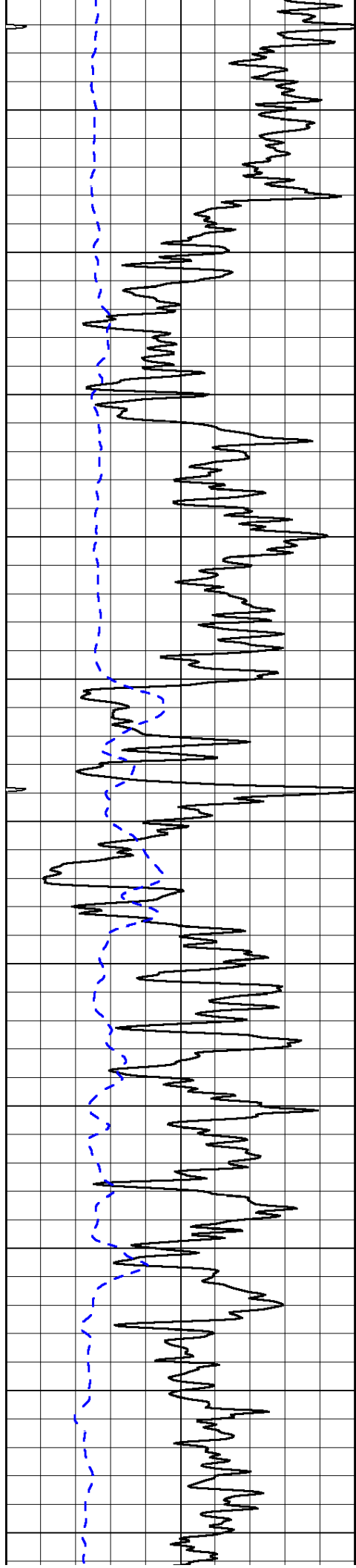
Oakley KS, S on Hwy 183 to Hwy 4,
4 W, 1 N, 3/4 W, S Into

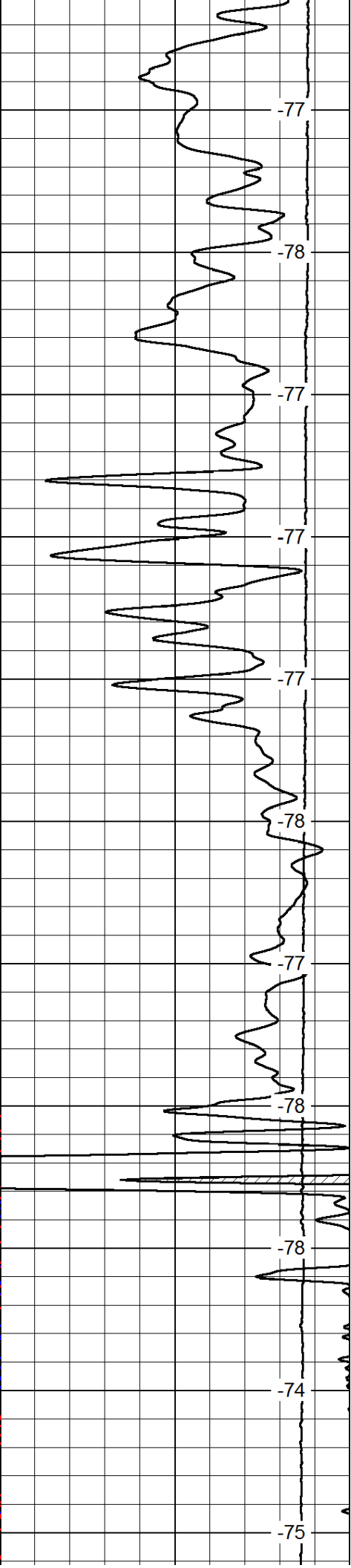
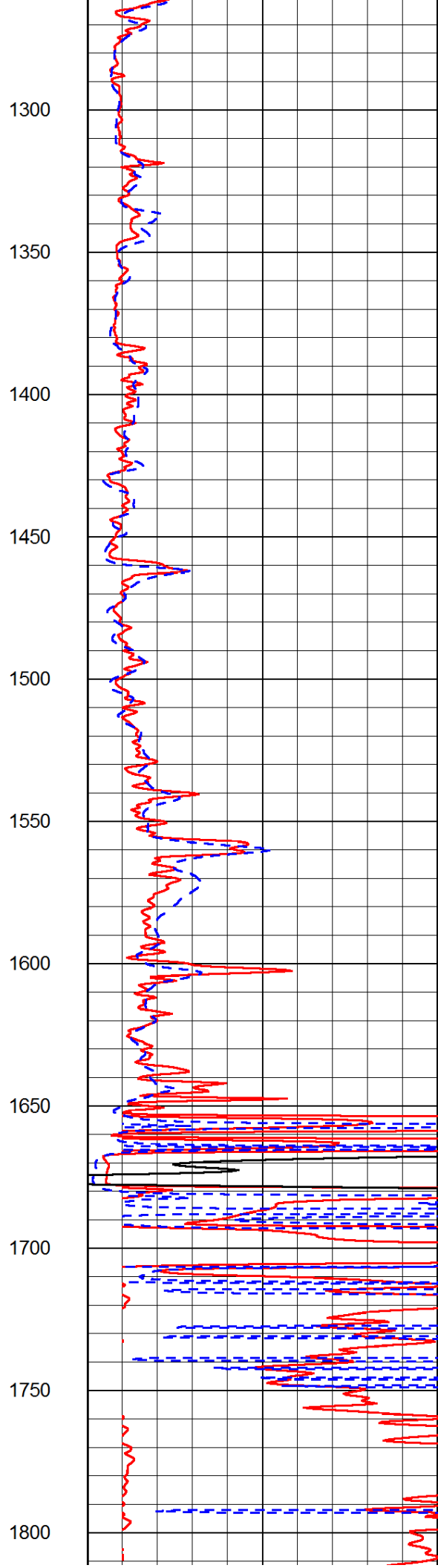
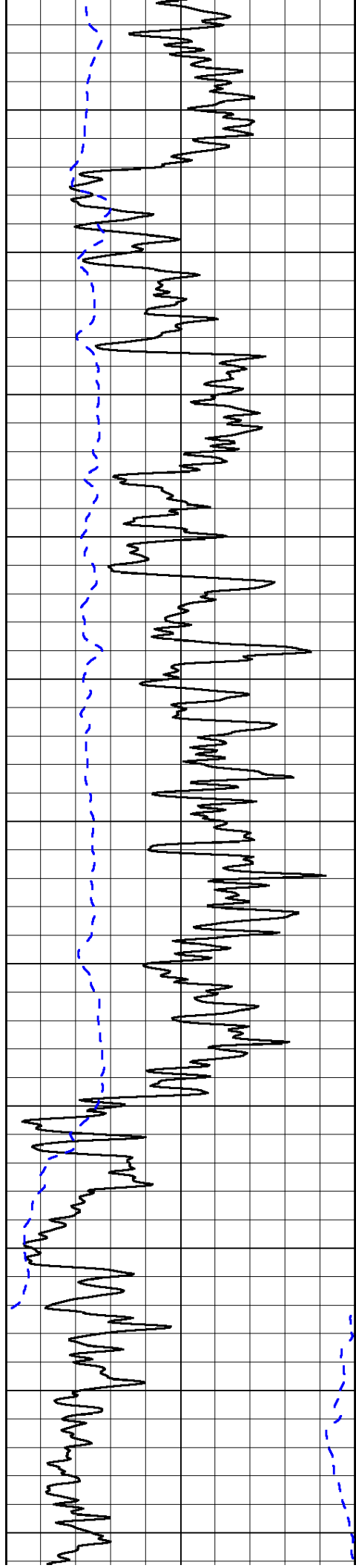
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Presentation Format: dil2in
Dataset Creation: Thu Apr 17 08:47:06 2014
Charted by: Depth in Feet scaled 1:600

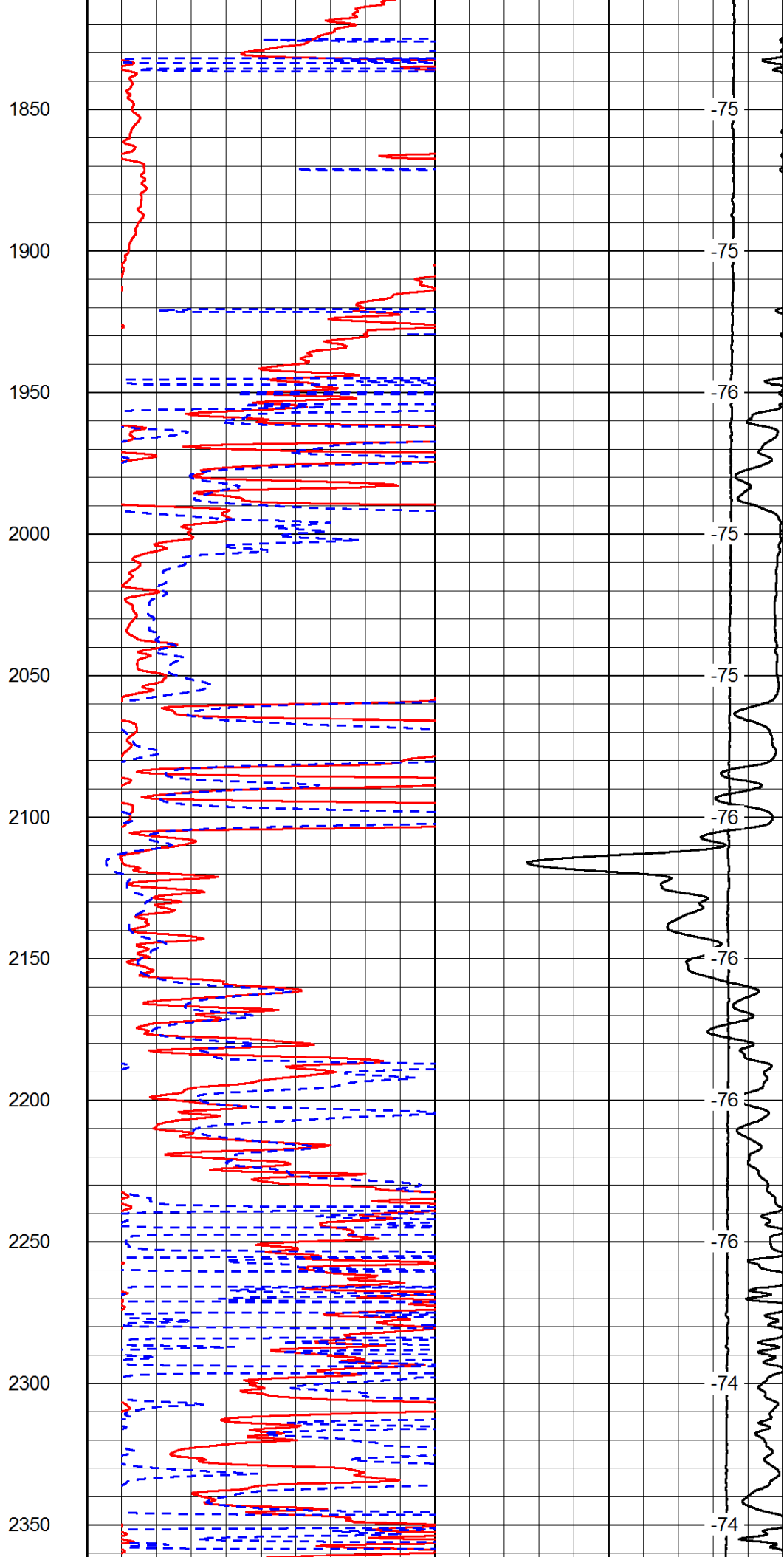
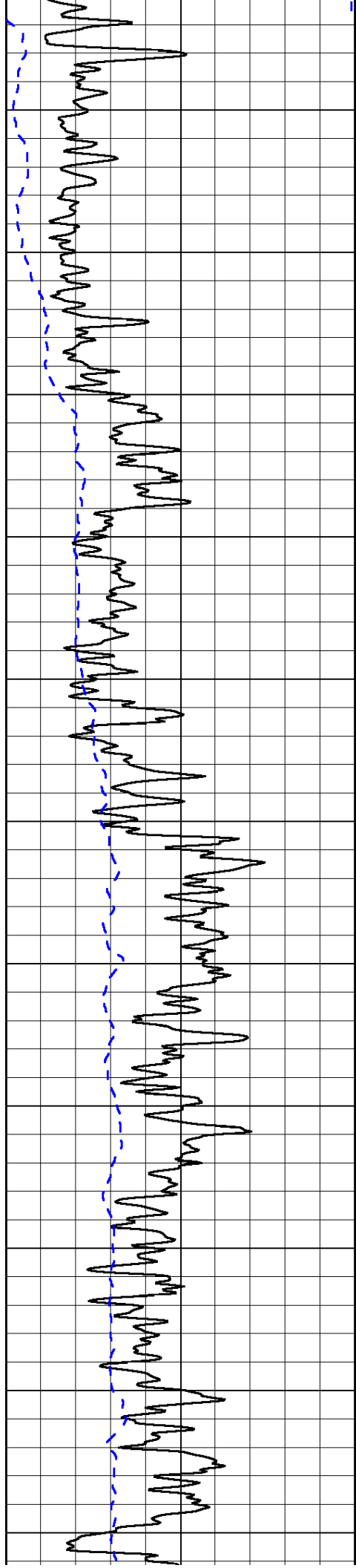
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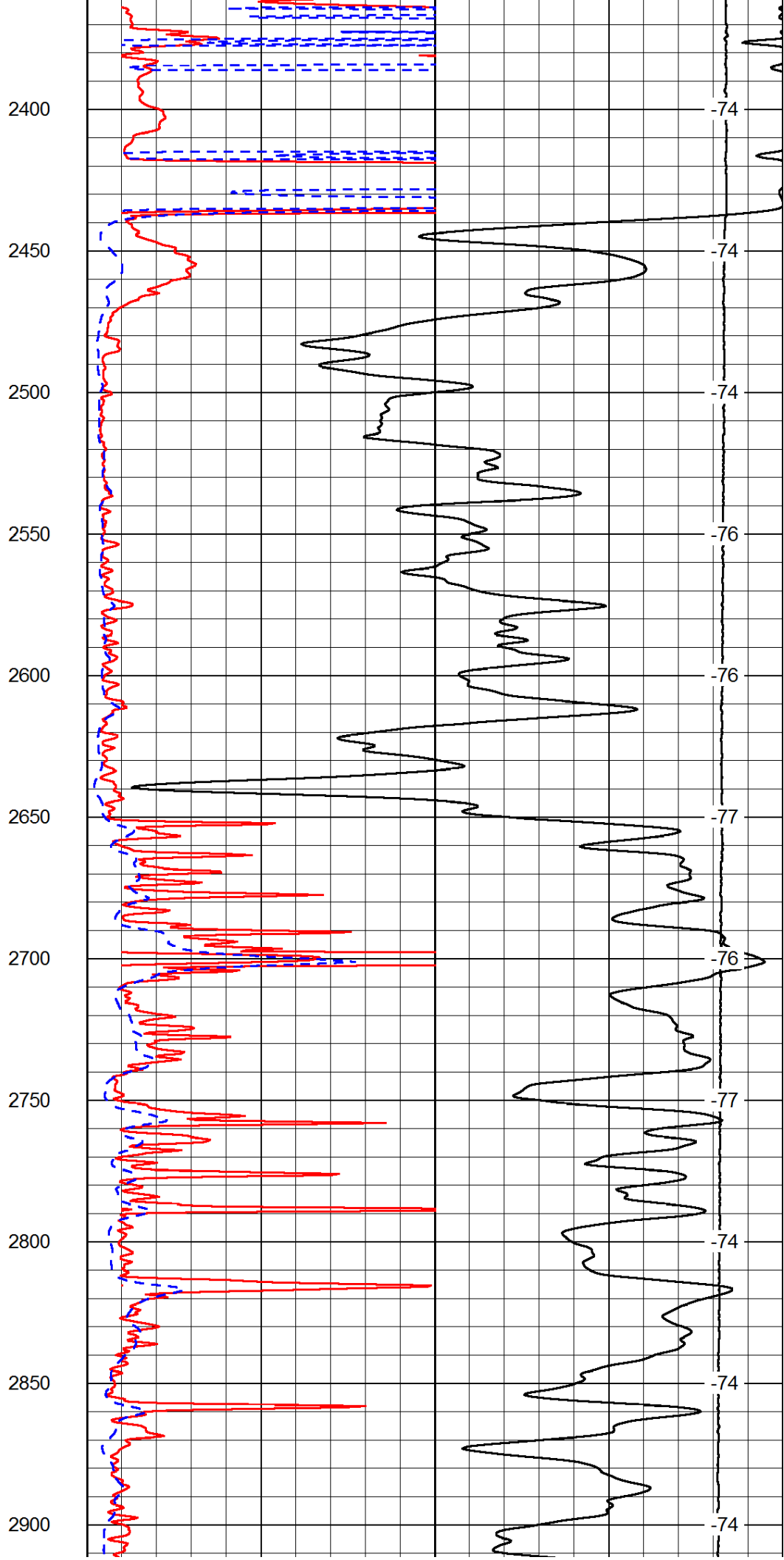
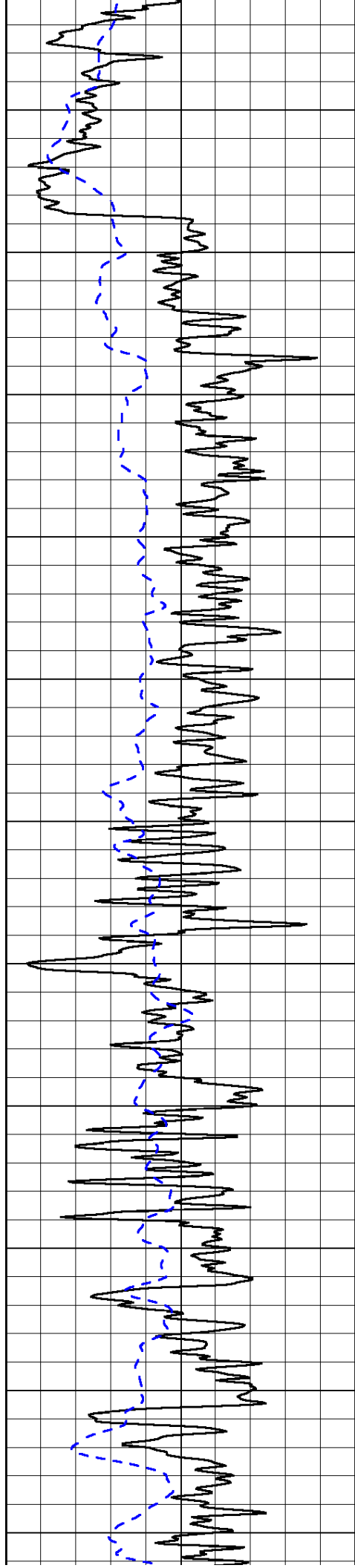
0 Shallow Resistivity 50			LSPD
0 Deep Resistivity 50			
1000 Conductivity			0
15000 Line Tension			0
	50 Shallow Resistivity 500		
	50 Deep Resistivity 500		

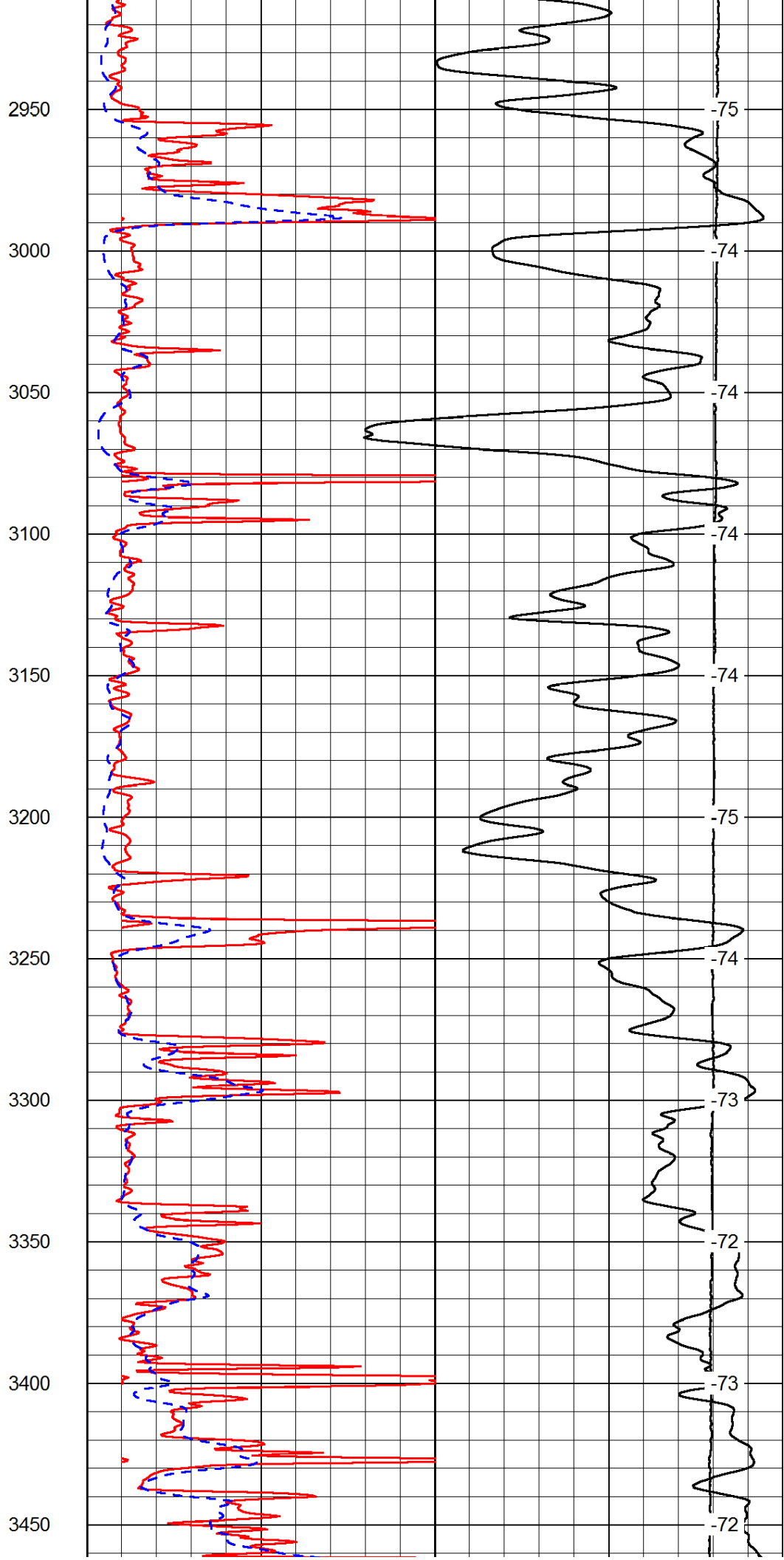
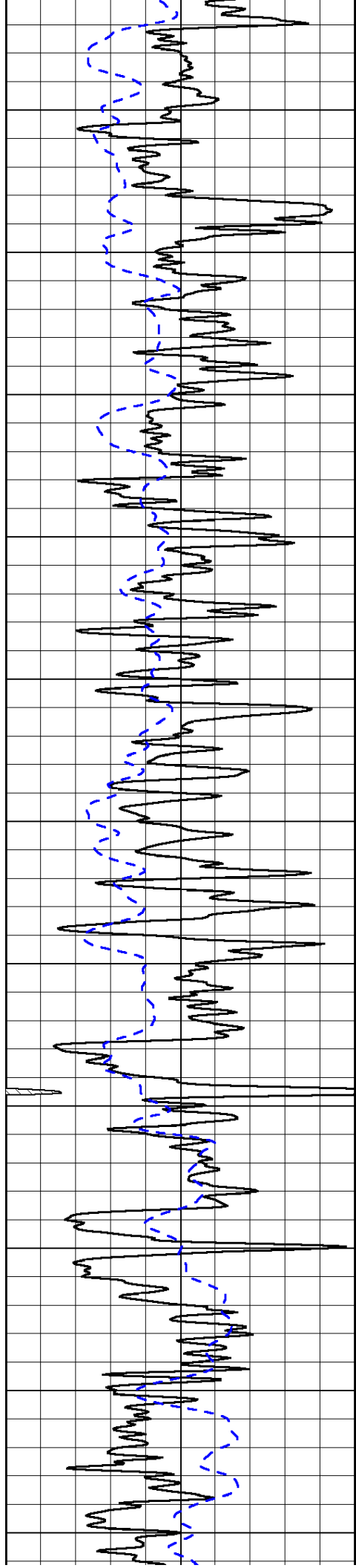


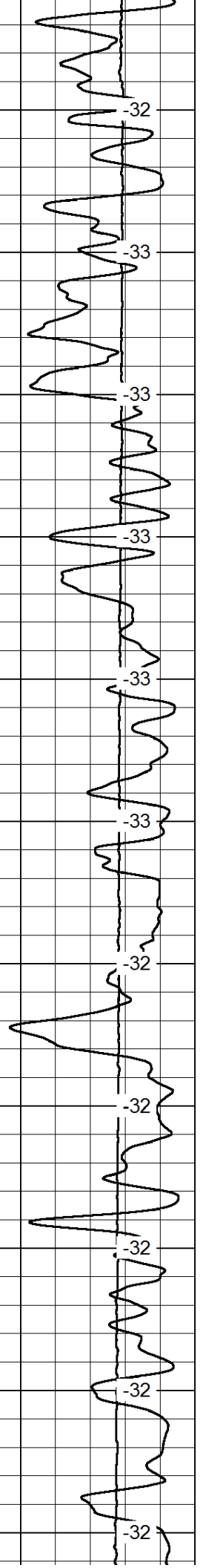
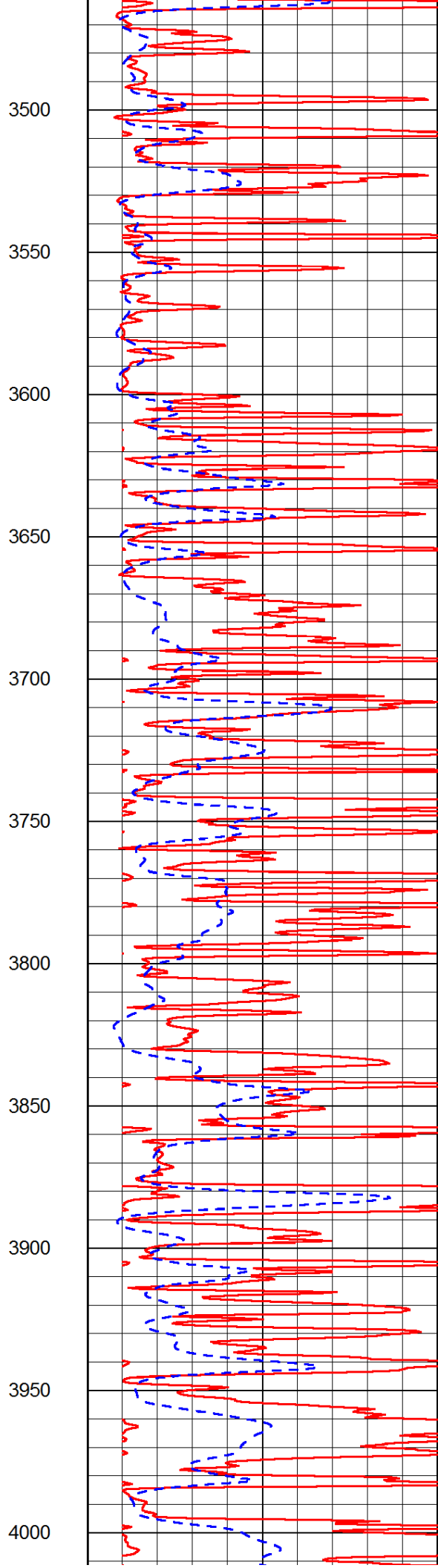
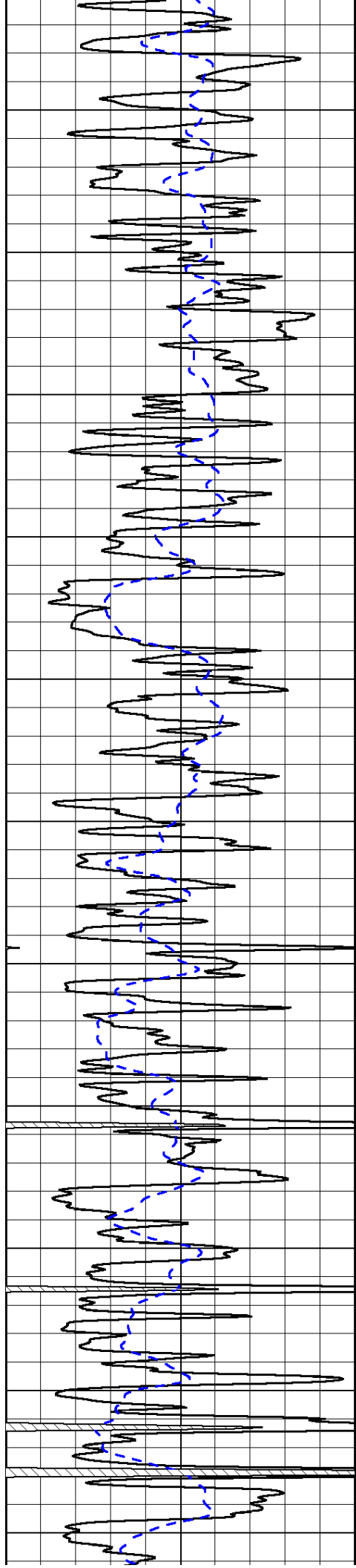


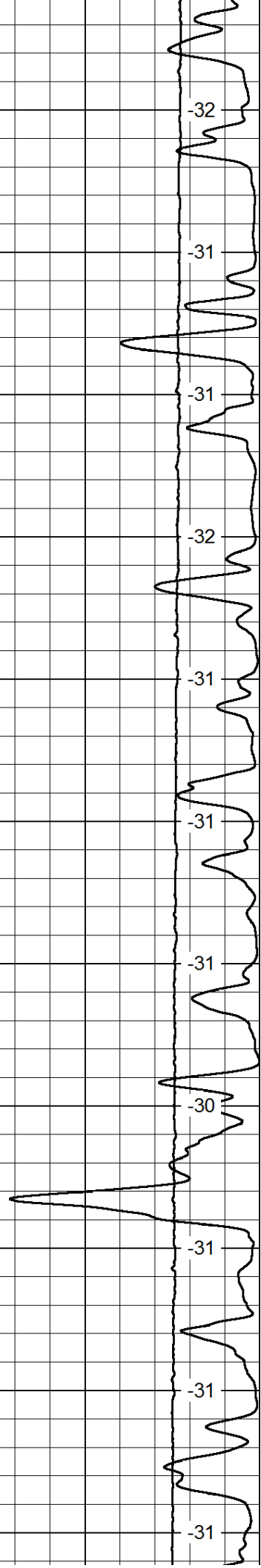
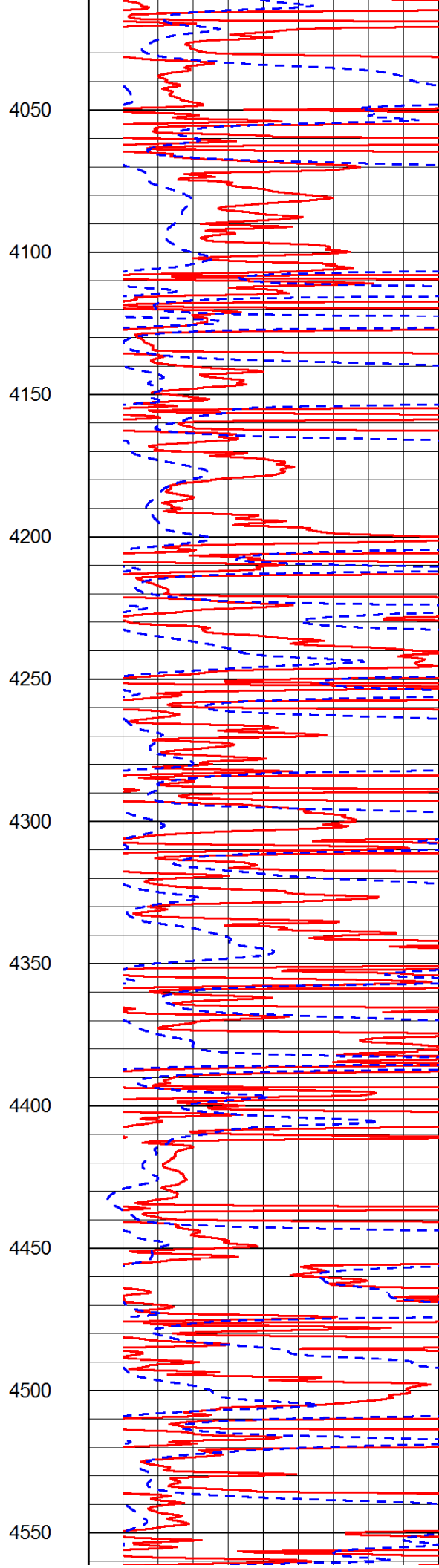
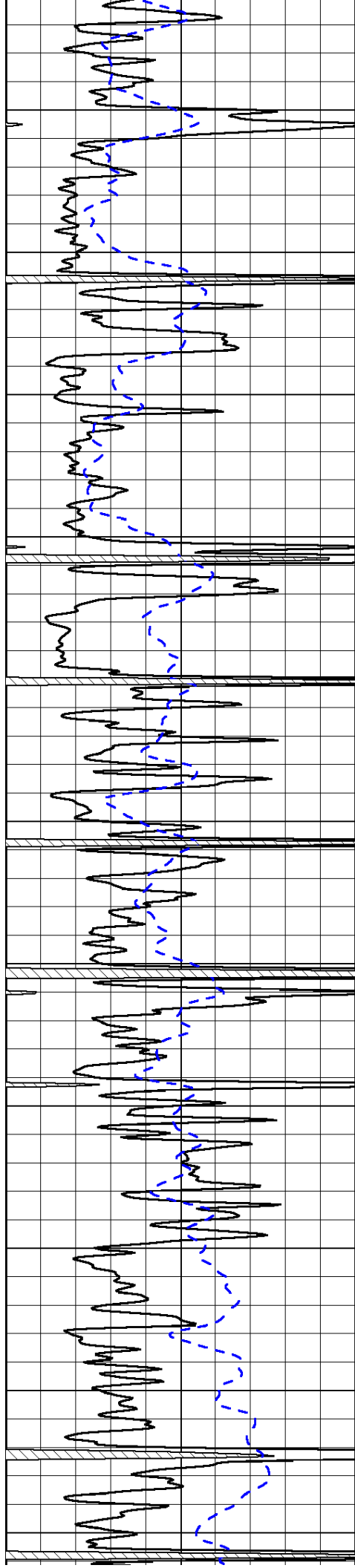


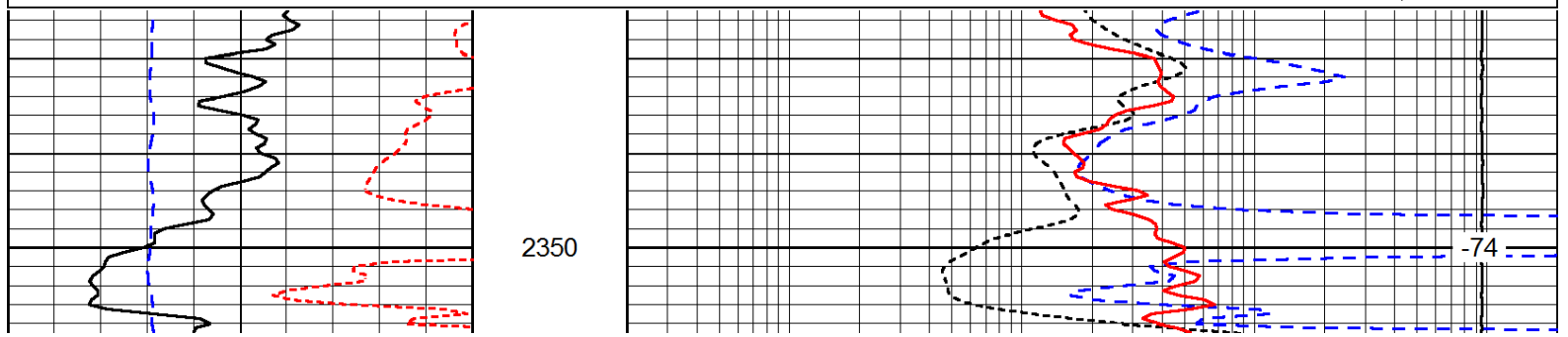
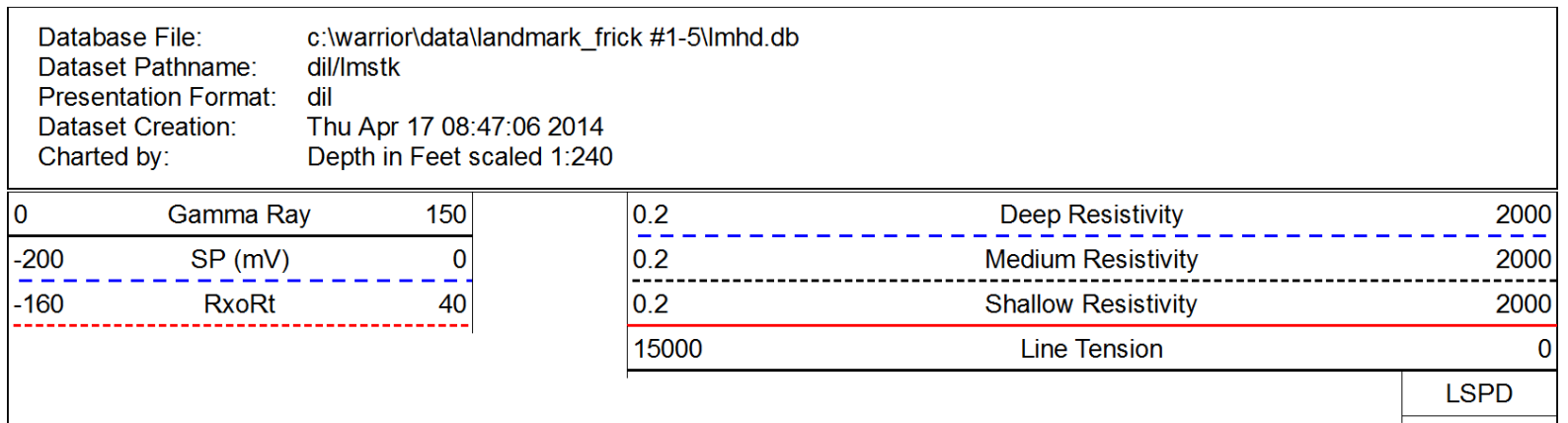
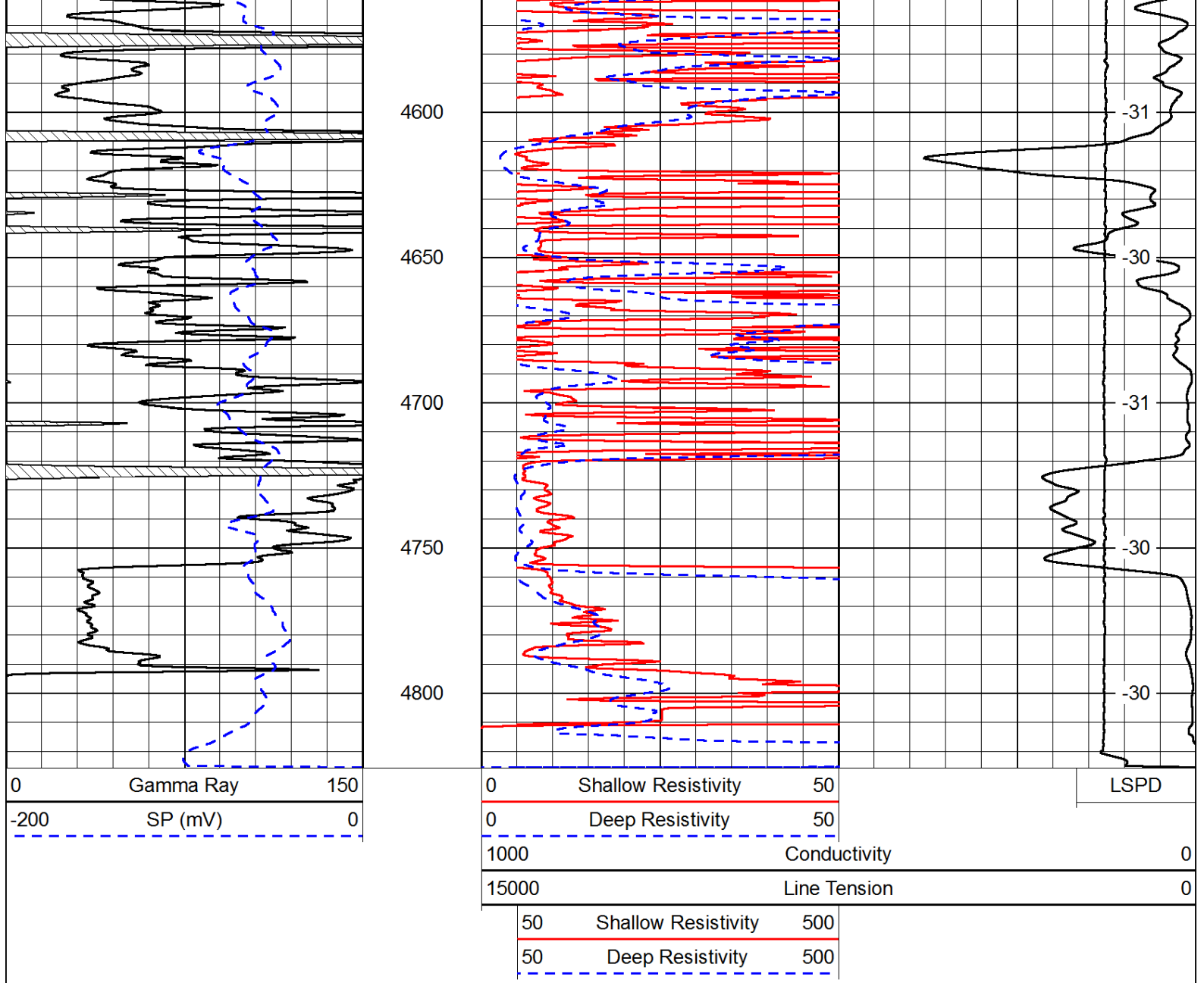


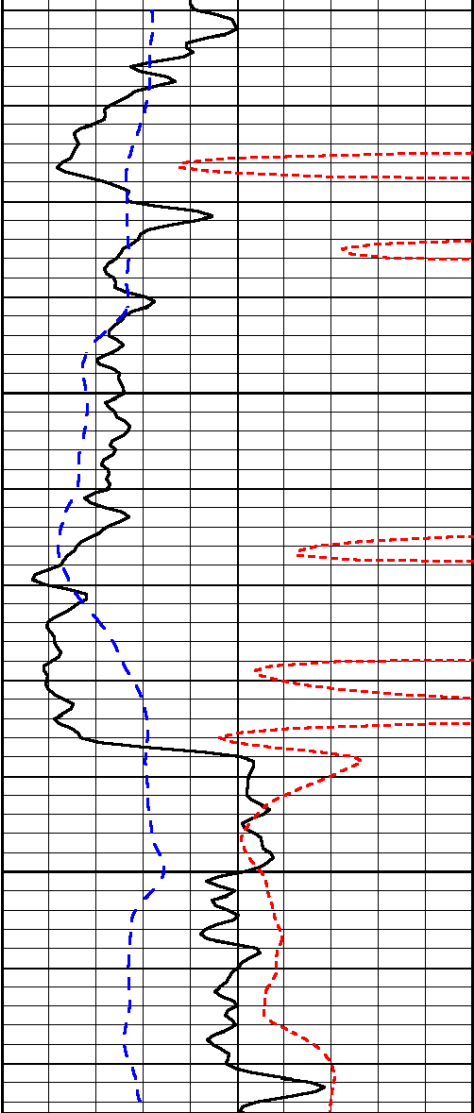








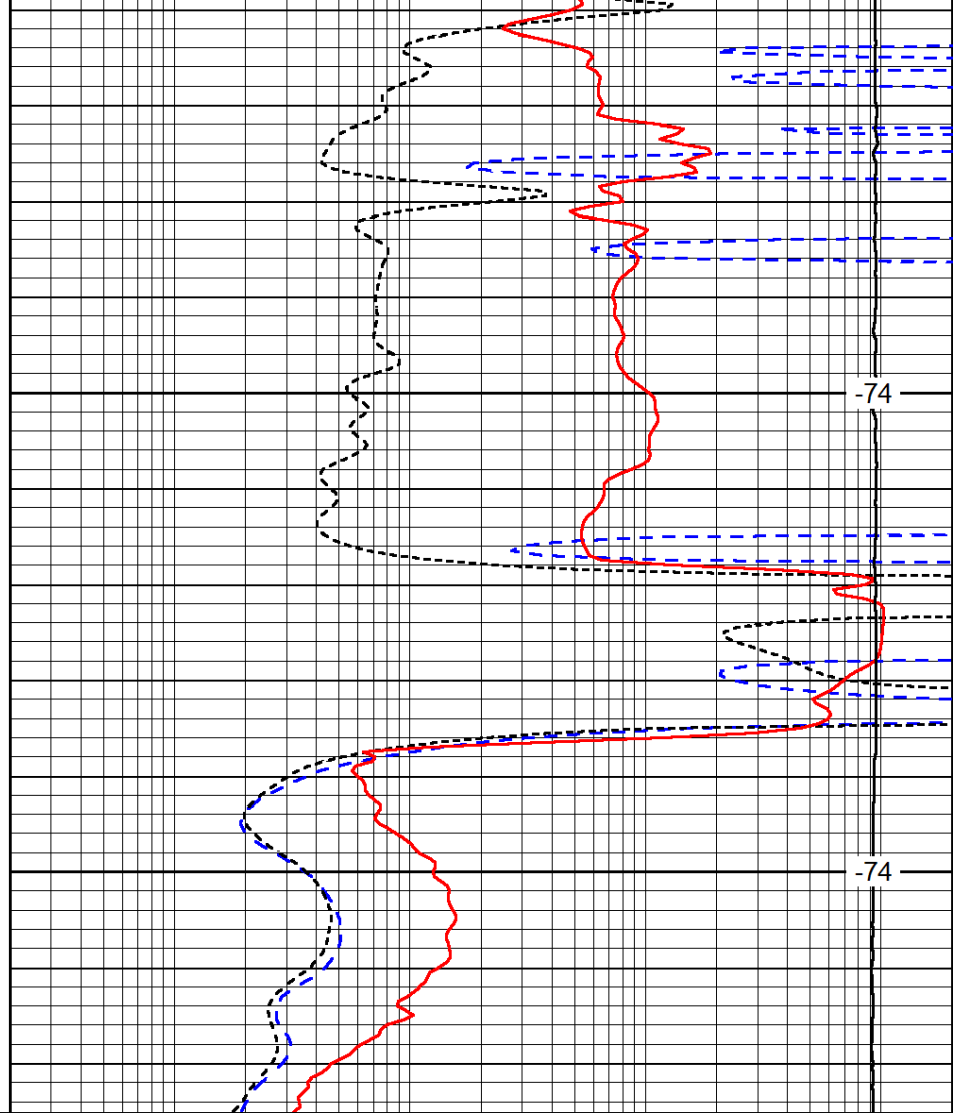




0	Gamma Ray	150
-200	SP (mV)	0
-160	RxoRt	40

2400

2450



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

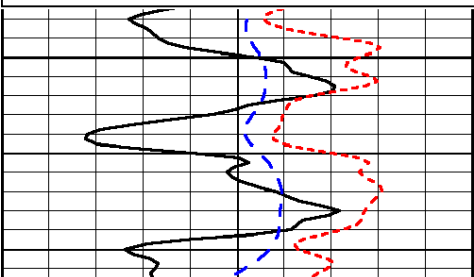
LSPD

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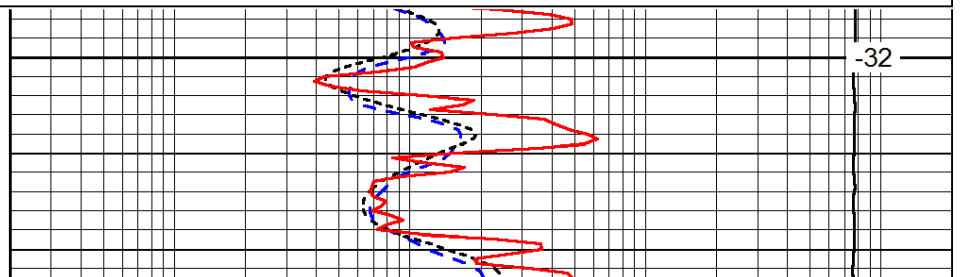
0	Gamma Ray	150
-200	SP (mV)	0
-160	RxoRt	40

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

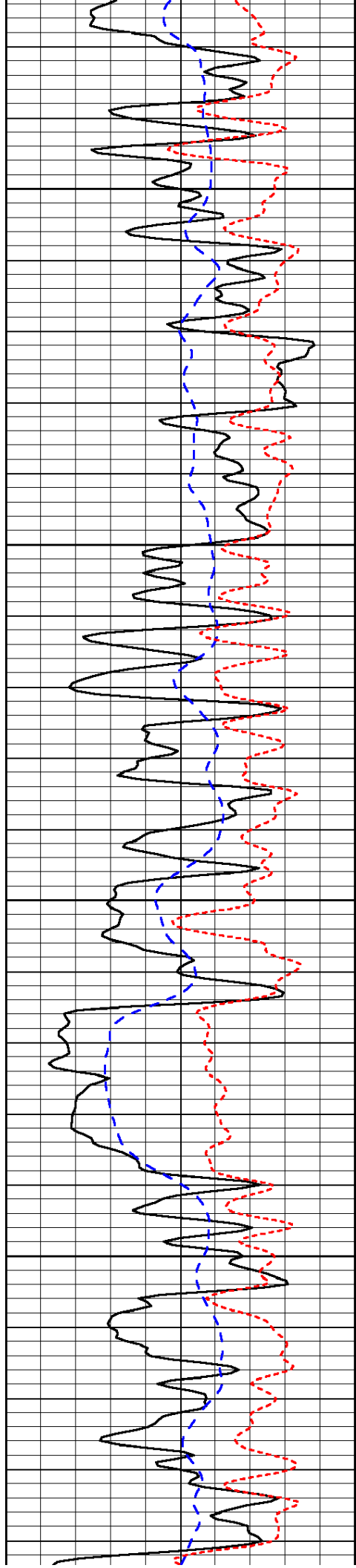
LSPD



3500



-32

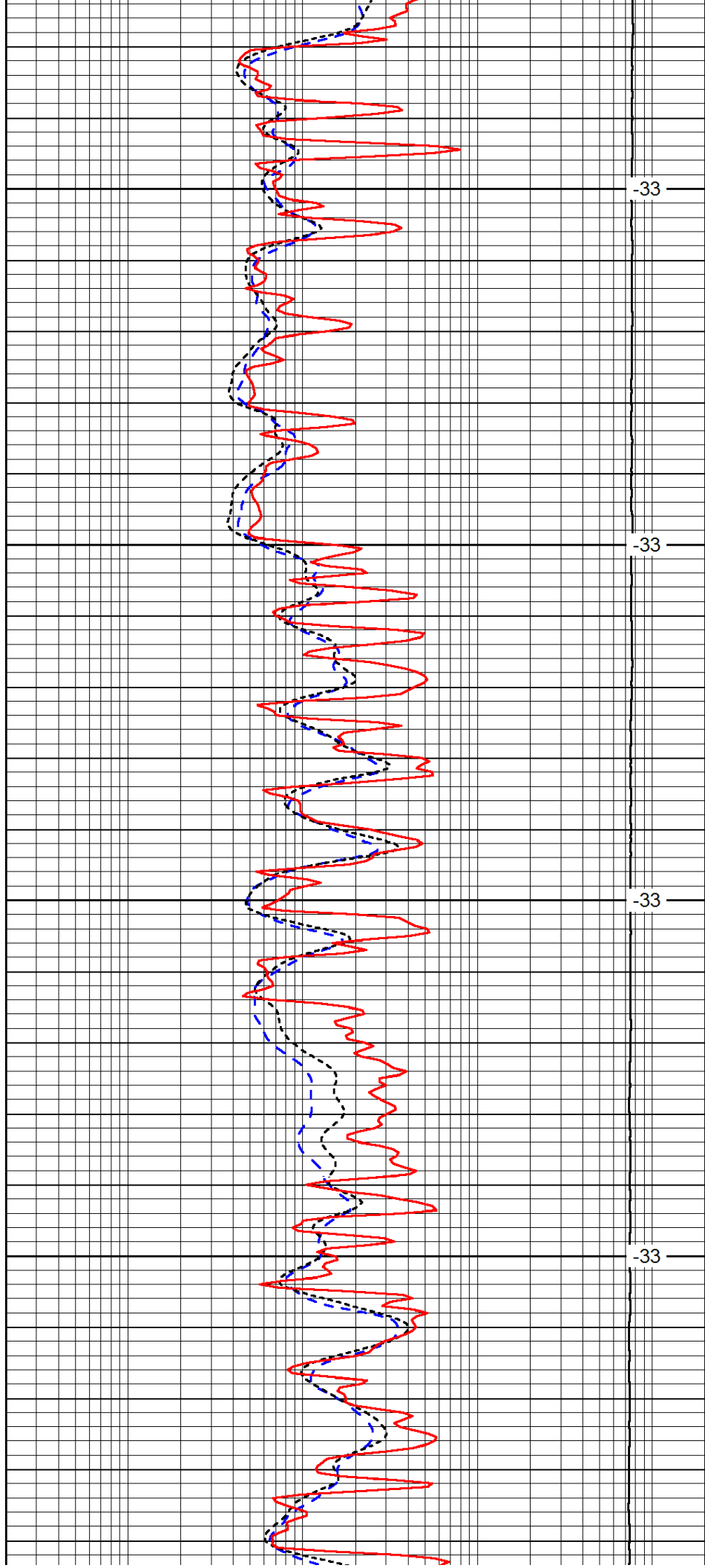


3550

3600

3650

3700

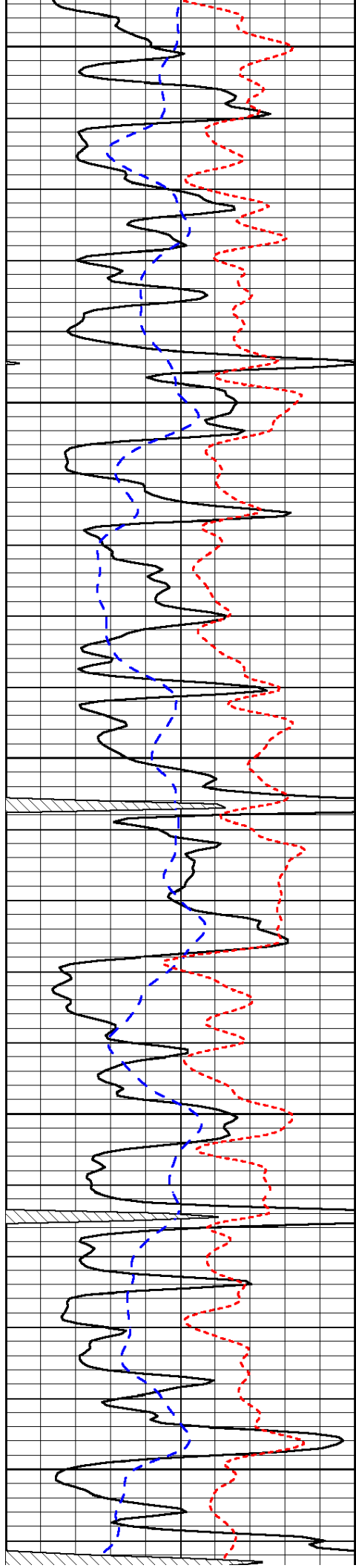


-33

-33

-33

-33



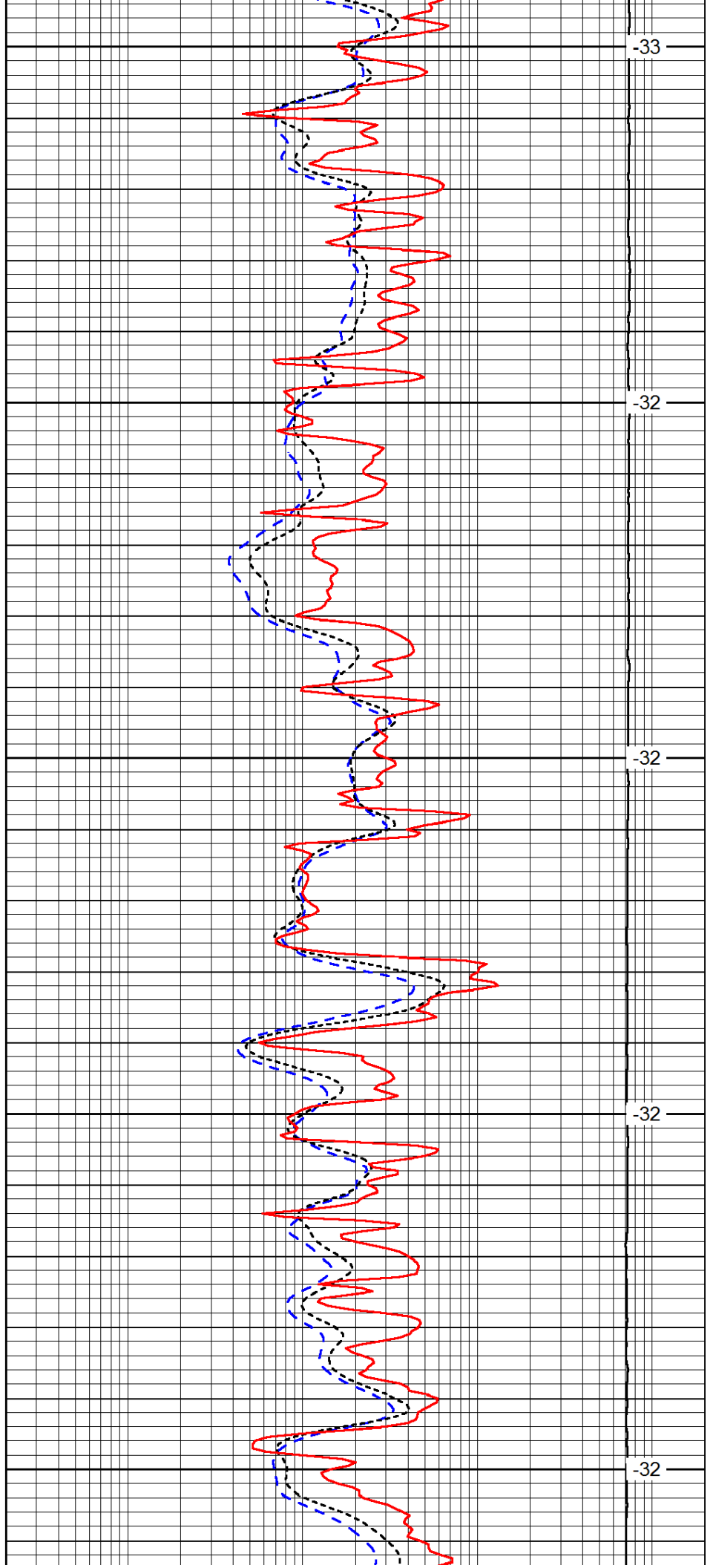
3750

3800

3850

3900

3950



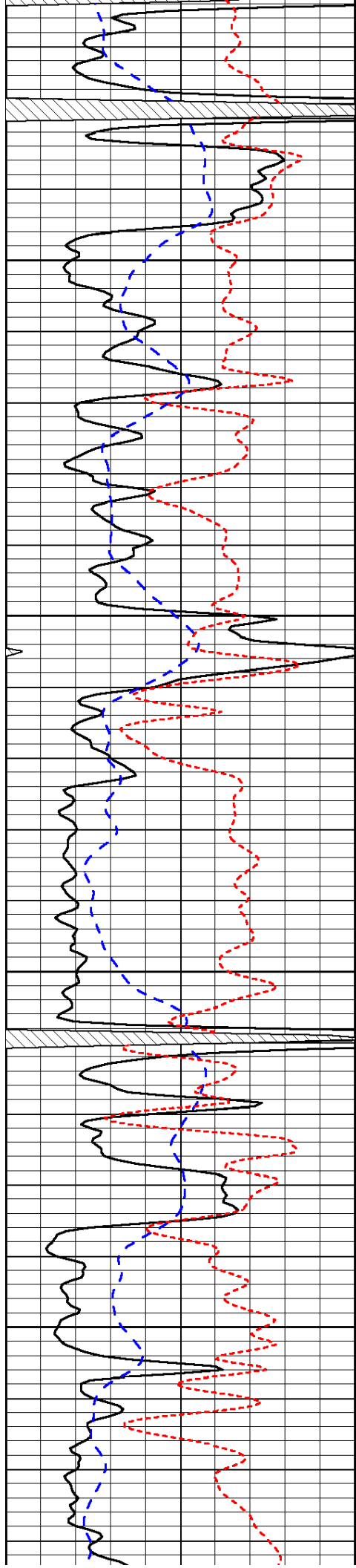
-33

-32

-32

-32

-32

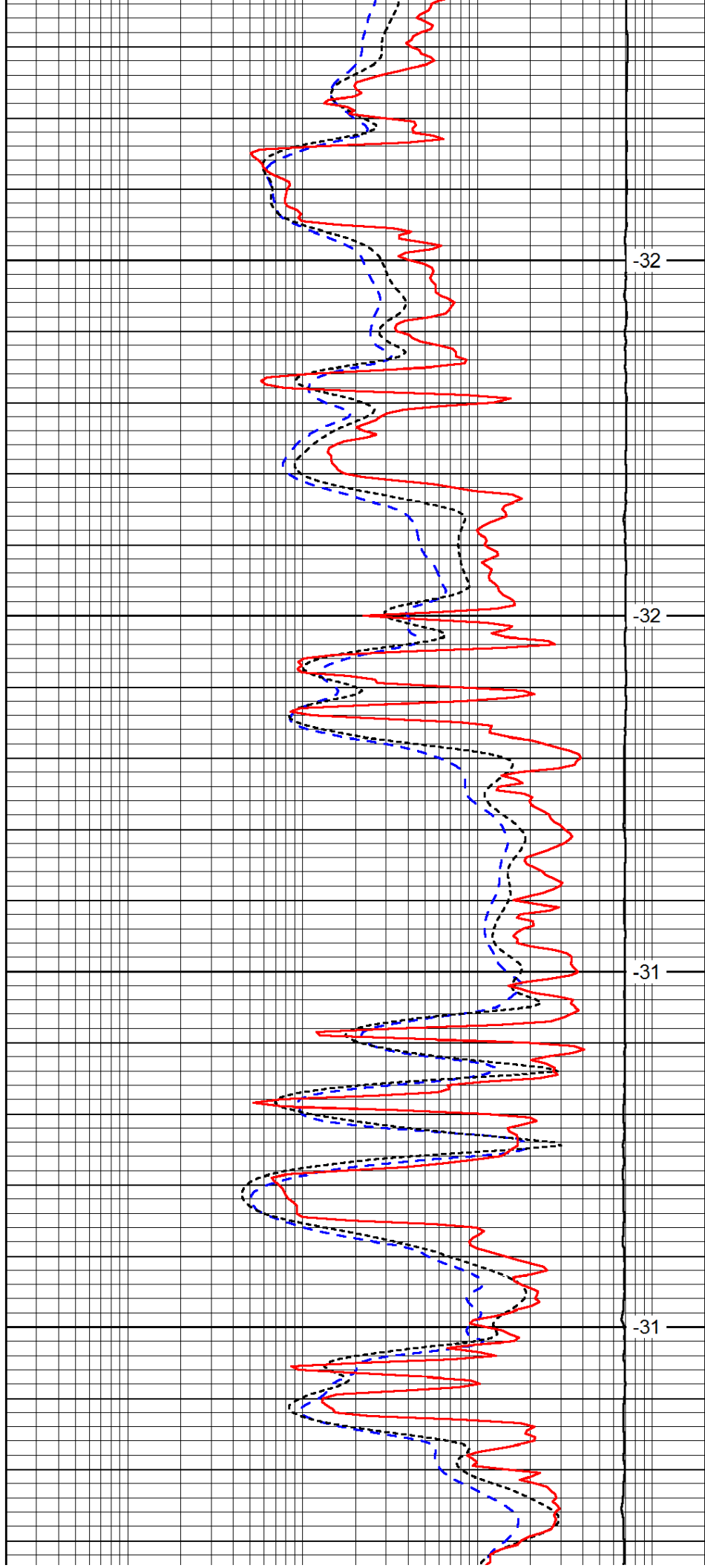


4000

4050

4100

4150

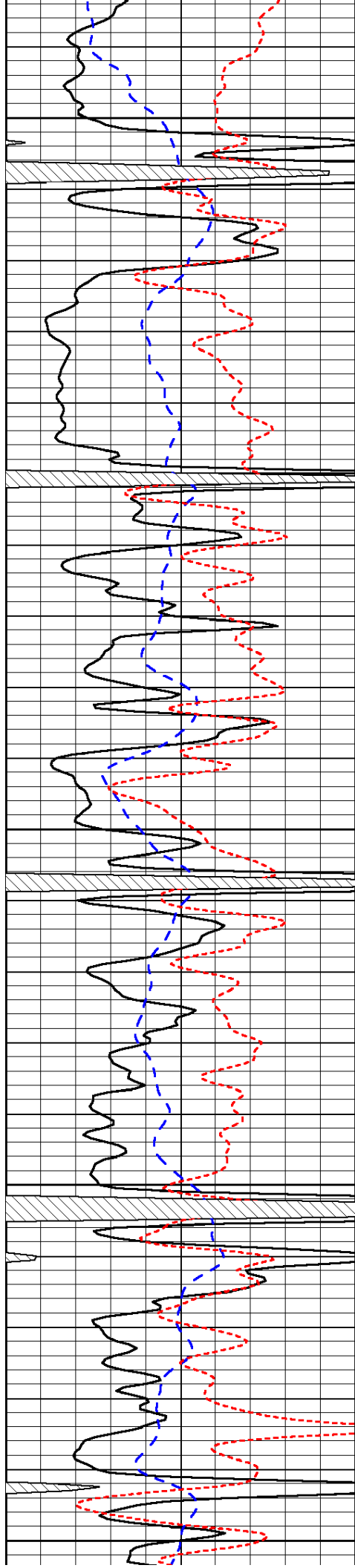


-32

-32

-31

-31



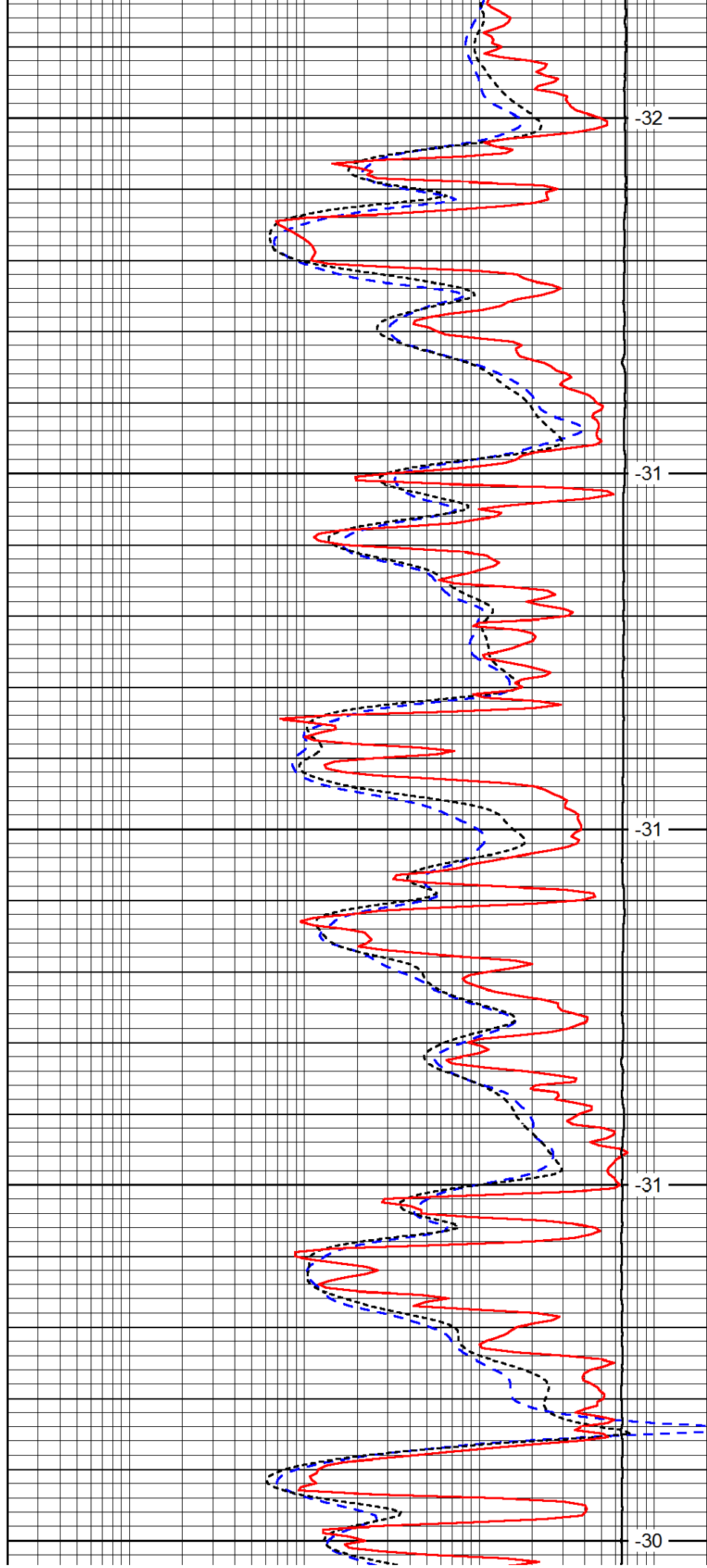
4200

4250

4300

4350

4400



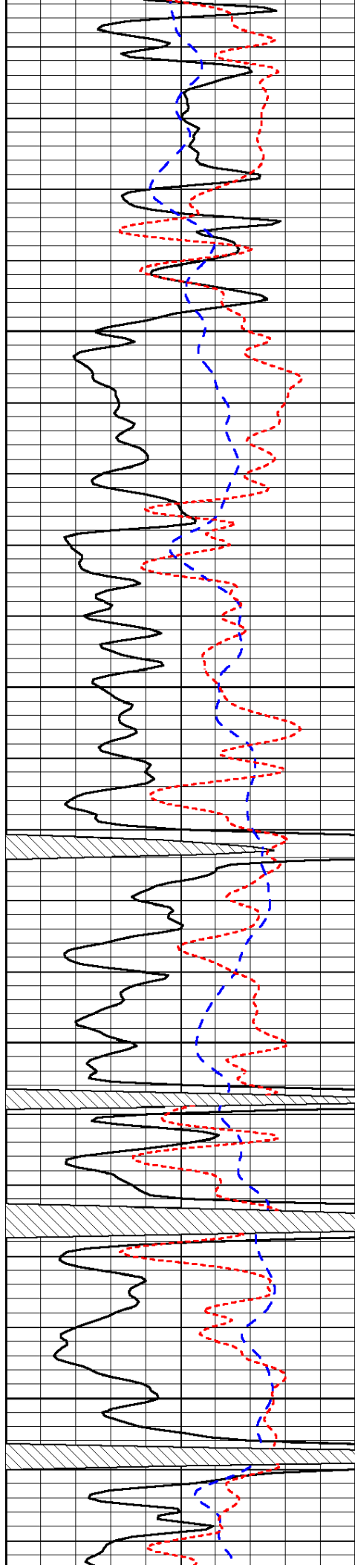
-32

-31

-31

-31

-30

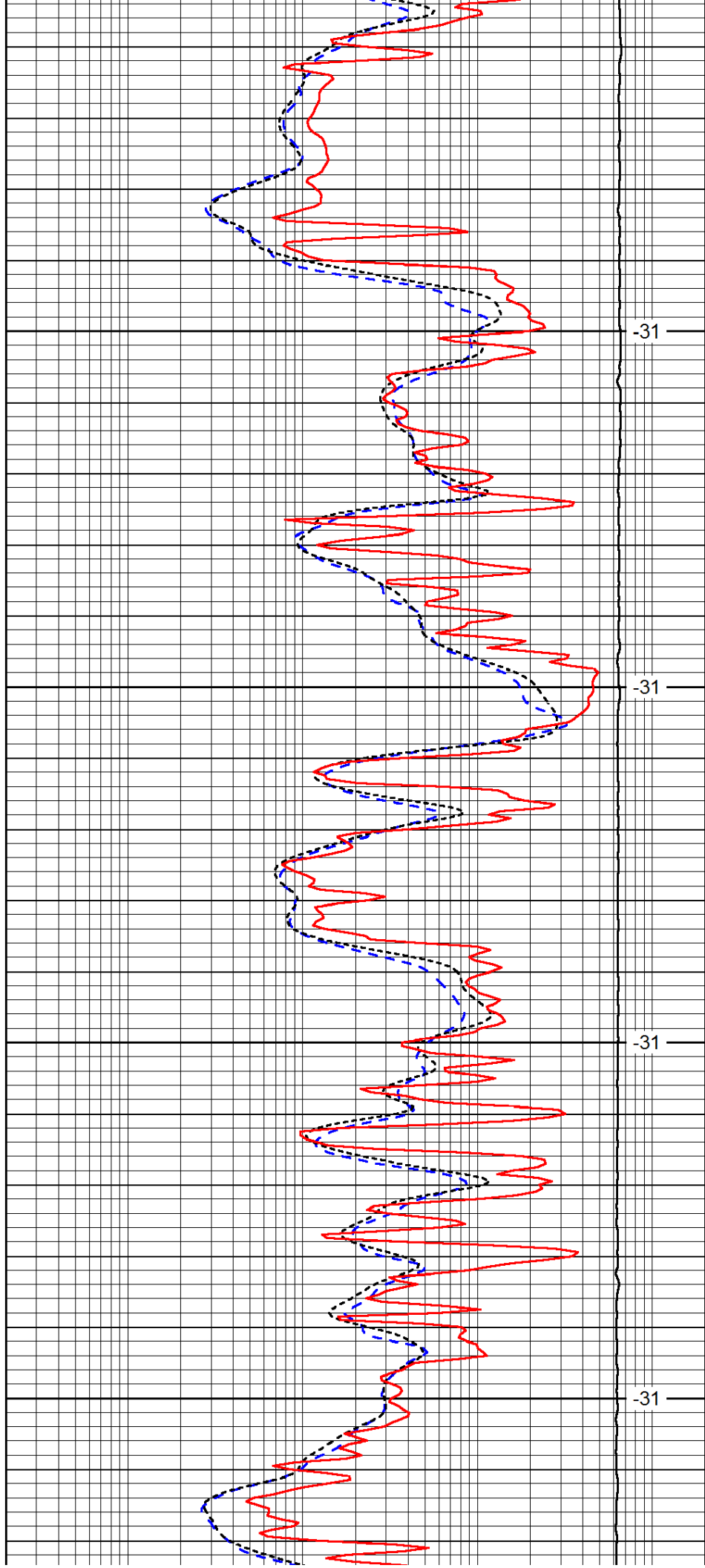


4450

4500

4550

4600

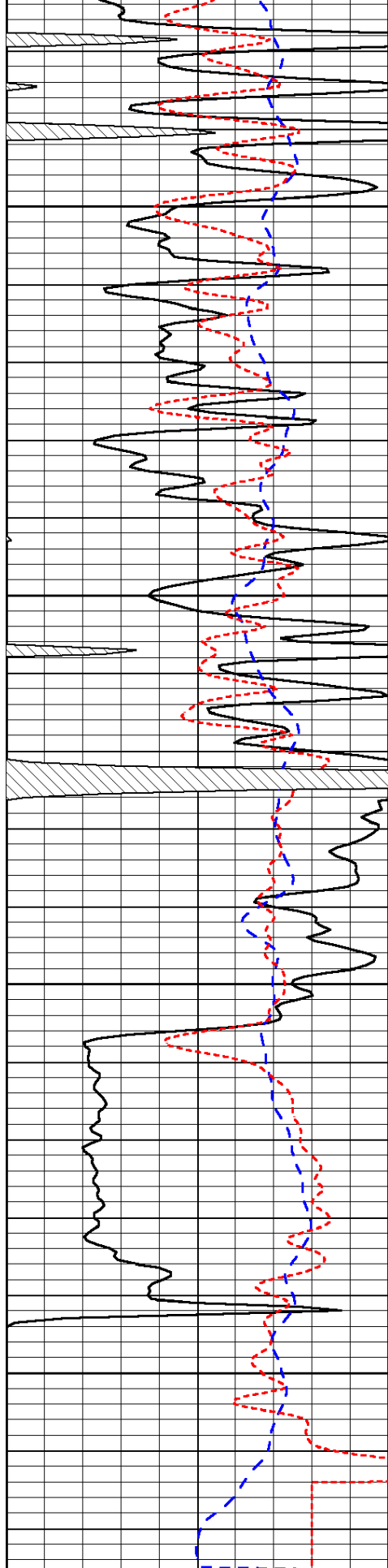


-31

-31

-31

-31



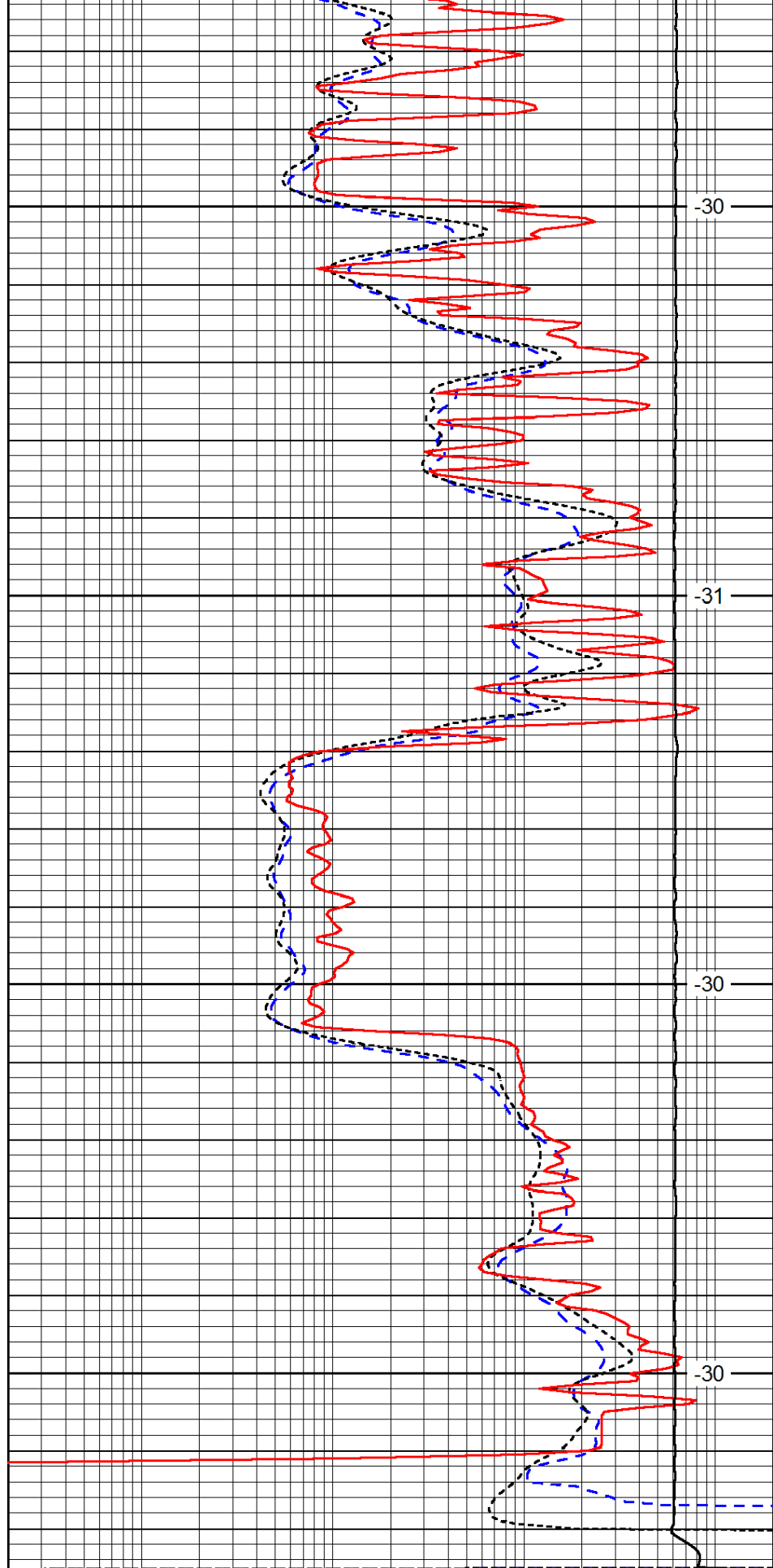
0	Gamma Ray	150
-200	SP (mV)	0
-160	RxoRt	40

4650

4700

4750

4800



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

