



Dual Induction Log

Pioneer Energy Services

API No.	Company Ritchie Exploration, Inc.				
	Well Allen-Radnor #1				
	Field Wildcat				
	County Scott	State		Kansas	
15-171-21,021-00-00	Location	2420' FNL & 335' FWL			Other Services CNL/CDL
	Sec: 2	Twp: 16S	Rge: 34W	Elevation K.B. 3109 D.F. 3104 G.L. 3104	
	Permanent Datum Log Measured From Drilling Measured From	Ground Level Kelly Bushing From Kelly Bushing	Elevation 3104 5 Ft. Above Perm. Datum		
Date	2/8/2104				
Run Number	One				
Depth Driller	4955				
Depth Logger	4954				
Bottom Logged Interval	4953				
Top Log Interval	200				
Casing Driller	8.625 @ 237				
Casing Logger	236				
Bit Size	7.875				
Type Fluid in Hole	Chemical				
Salinity, ppm CL	7800				
Density / Viscosity	9.1	52			
pH / Fluid Loss	10.0	8.8			
Source of Sample	Flowline				
Rm @ Meas. Temp	0.35 @ 52				
Rmf @ Meas. Temp	0.26 @ 52				
Rmc @ Meas. Temp	0.47 @ 52				
Source of Rmf / Rmc	Charts				
Rm @ BHT	0.15 @ 126				
Operating Rig Time	2 Hours				
Max Rec. Temp. F	126				
Equipment Number	15				
Location	Hays				
Recorded By	D.Kerr				
Witnessed By	Max Lovely				

<<< Fold Here >>>

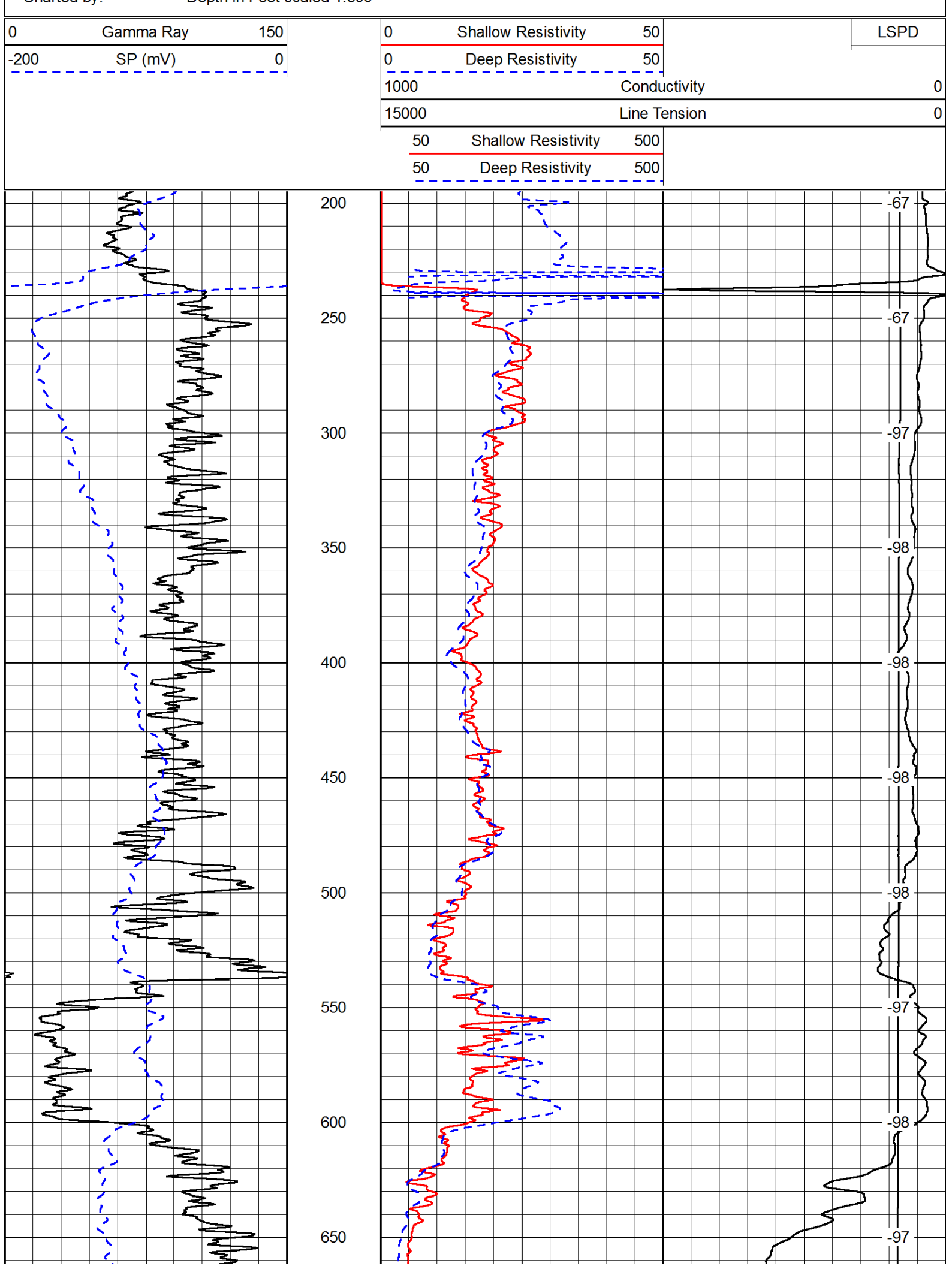
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, 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.

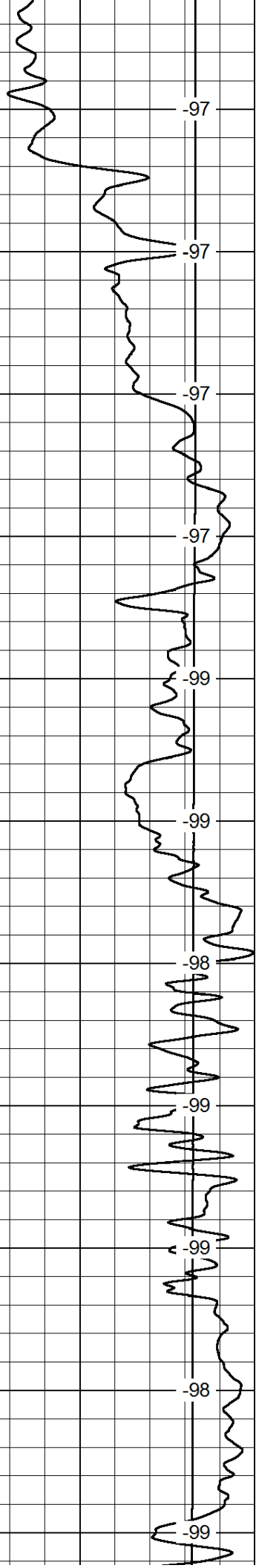
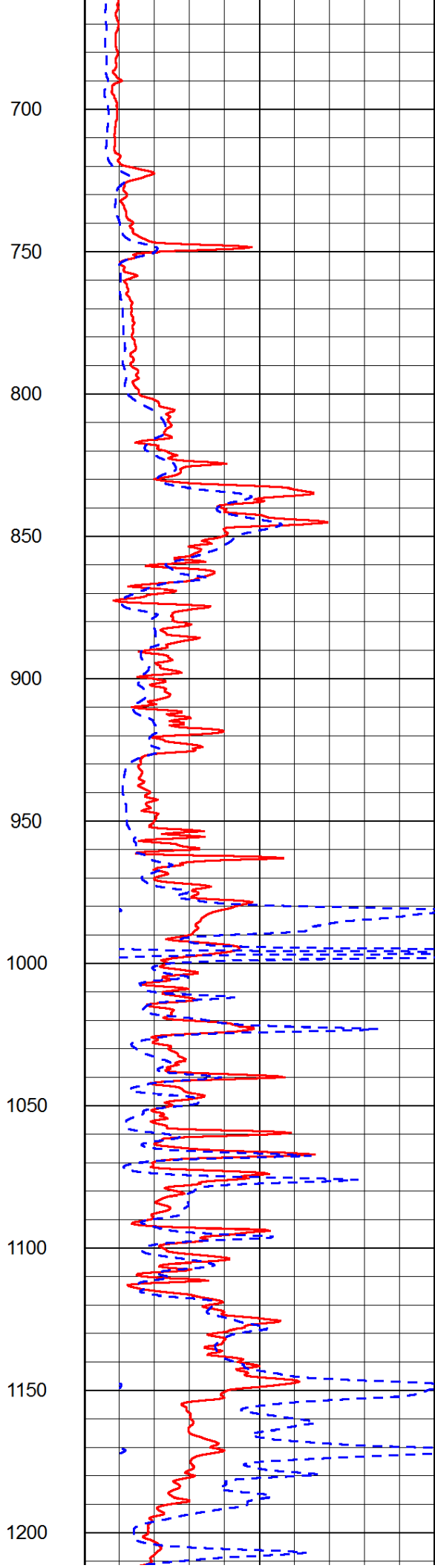
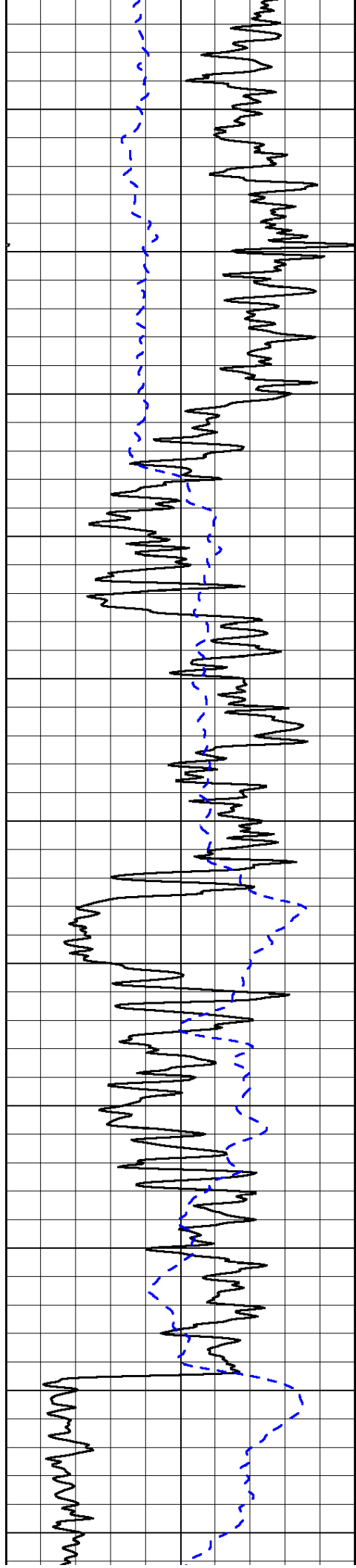
Comments

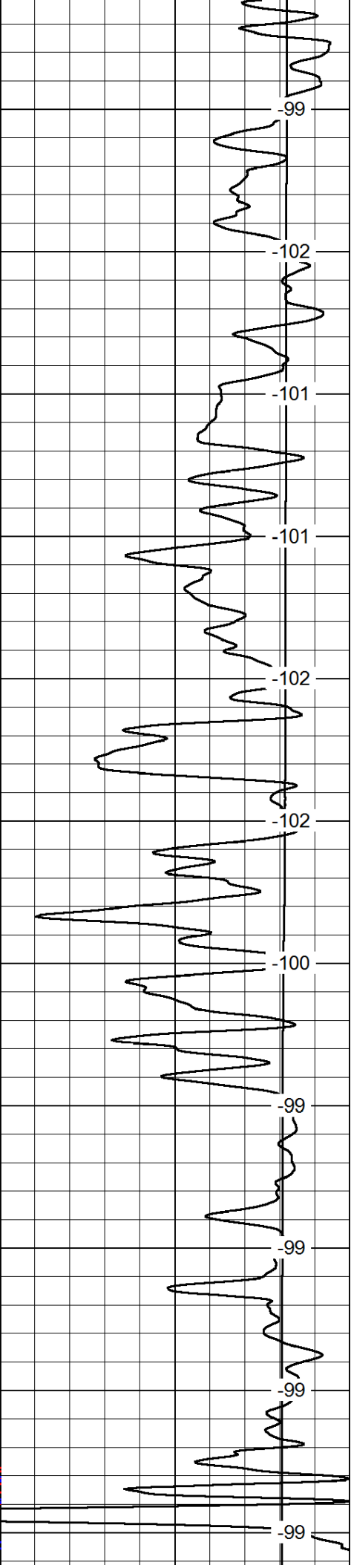
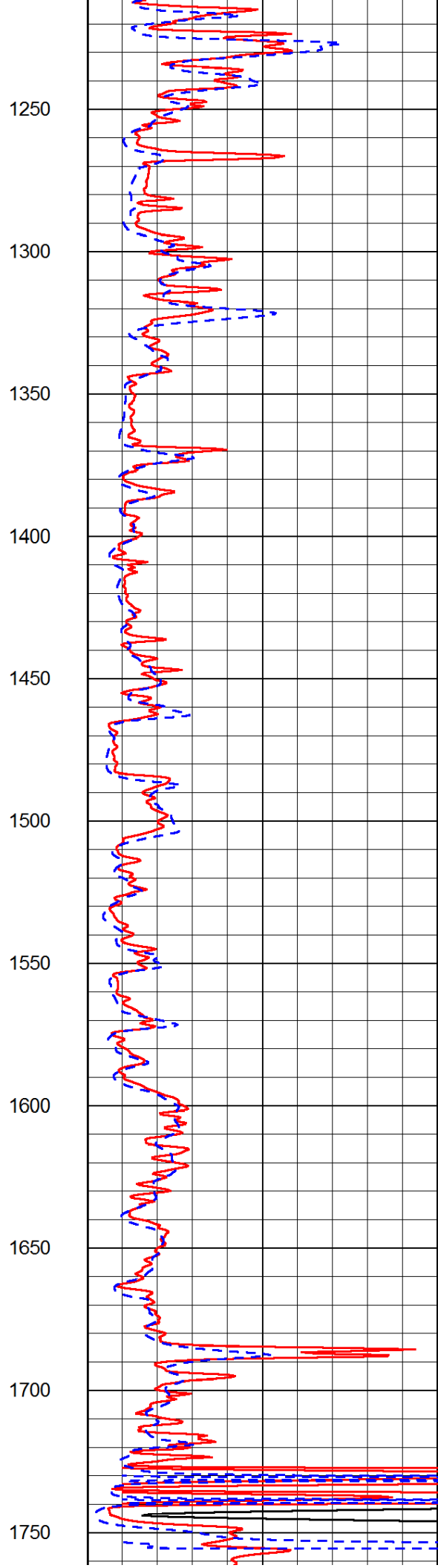
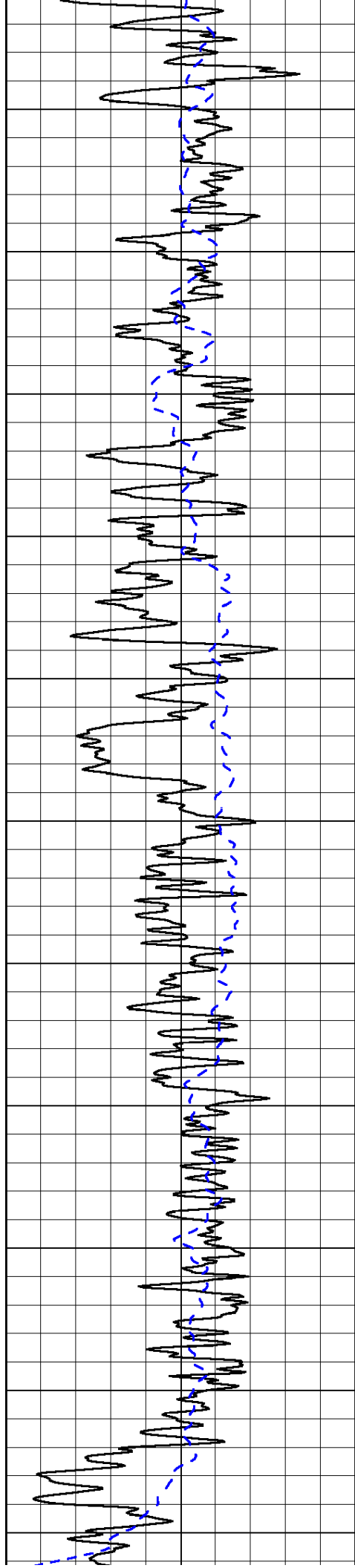
Thank you for using Pioneer Energy Services
www.pioneerres.com
785 625 3858

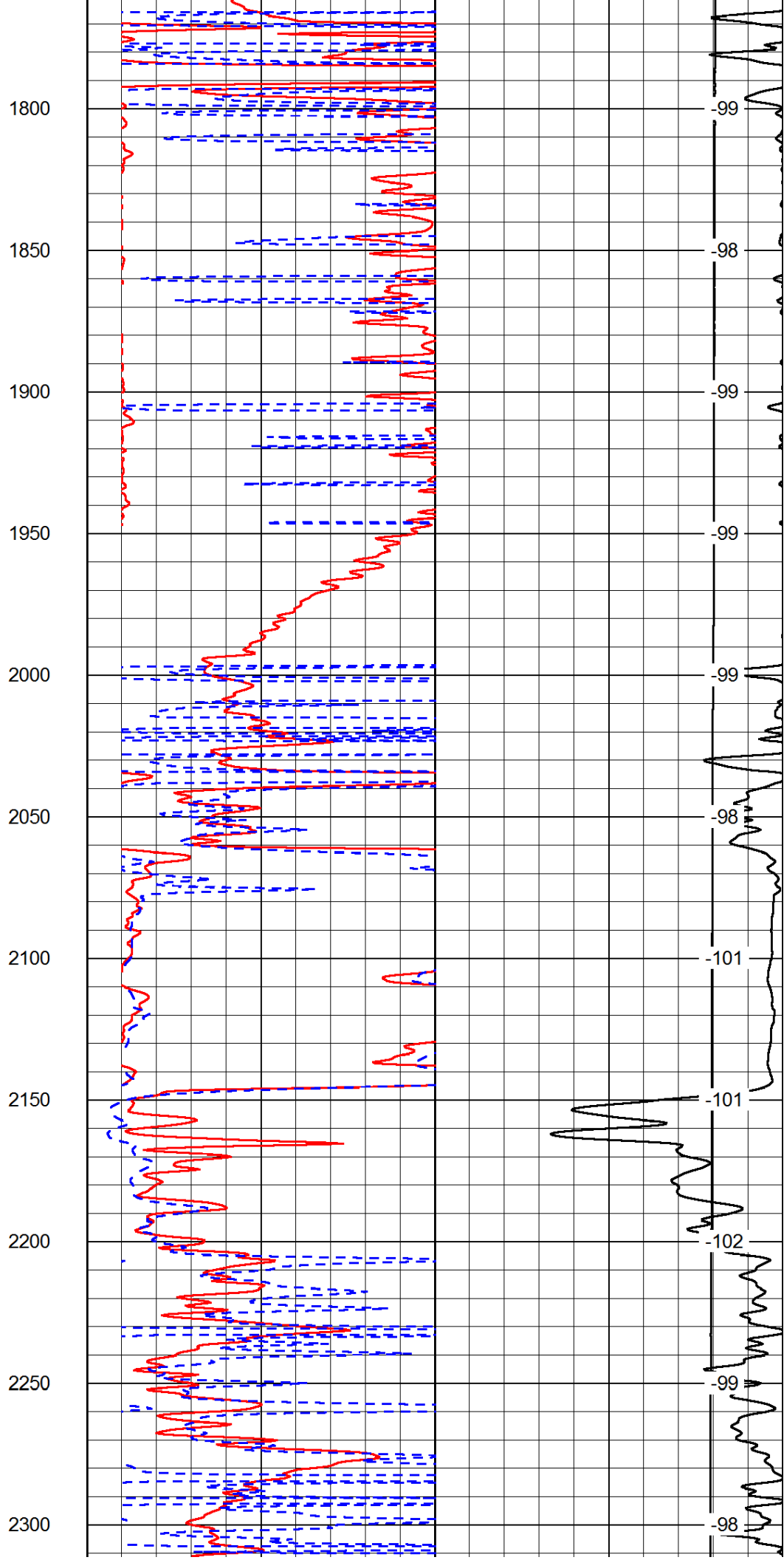
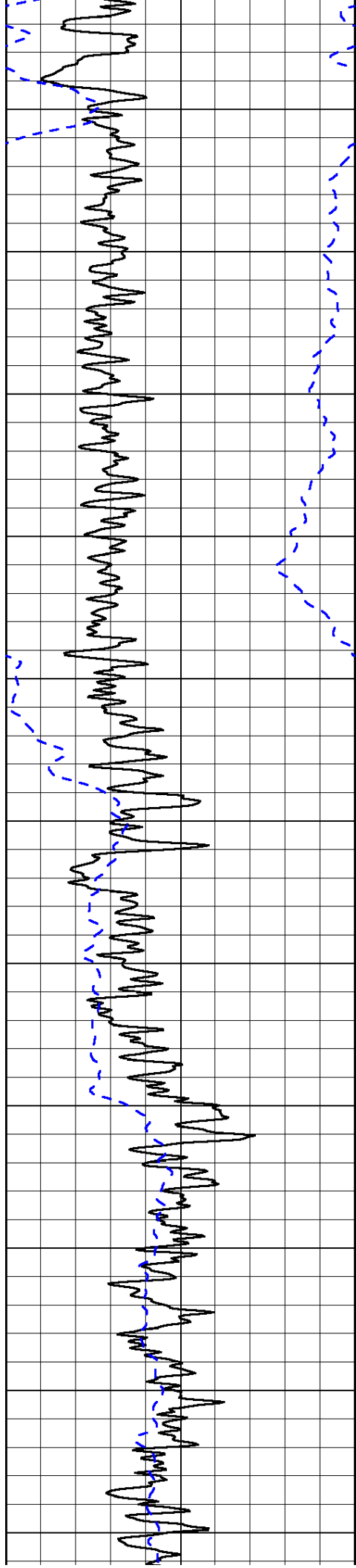
Pence KS, West to Eagle RD,
2 North, West Into(1 Mile)

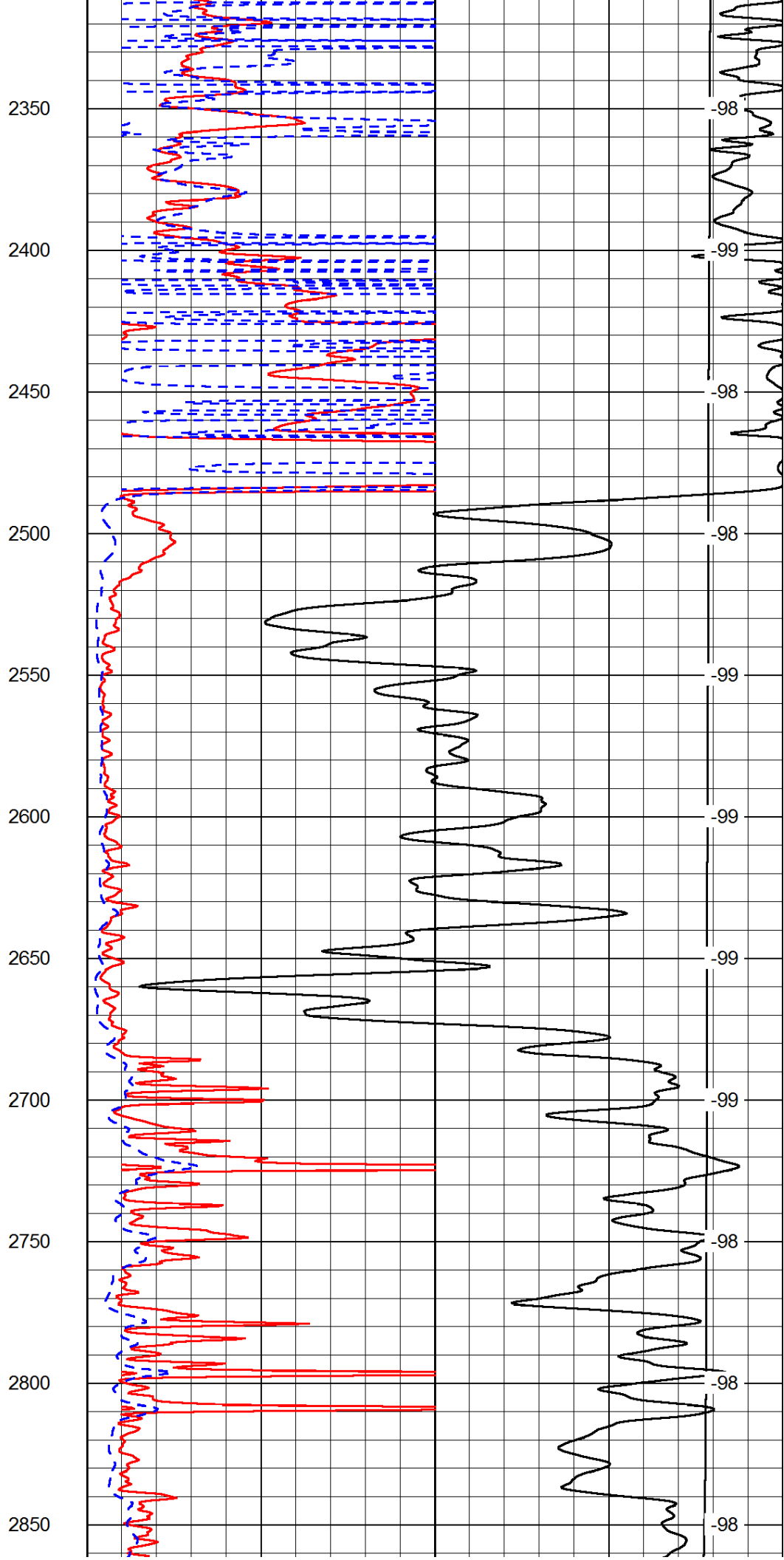
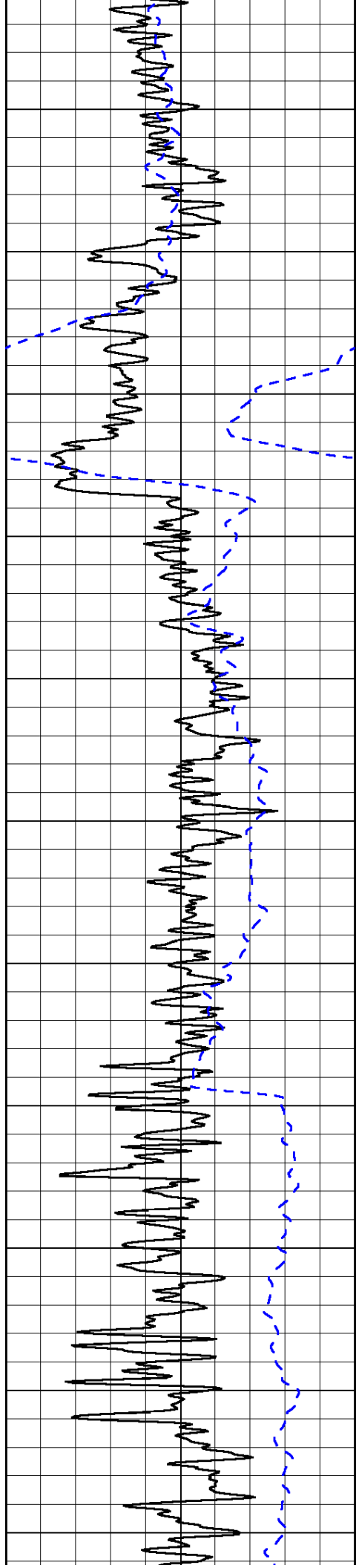
Database File: c:\warrior\data\ritchie_allen-radnor #1\ritchie_allen_radnor_1hd.db
Dataset Pathname: DIL\ritchstk2
Presentation Format: dil2in
Dataset Creation: Sat Feb 08 16:09:05 2014
Charted by: Depth in Feet scaled 1:600

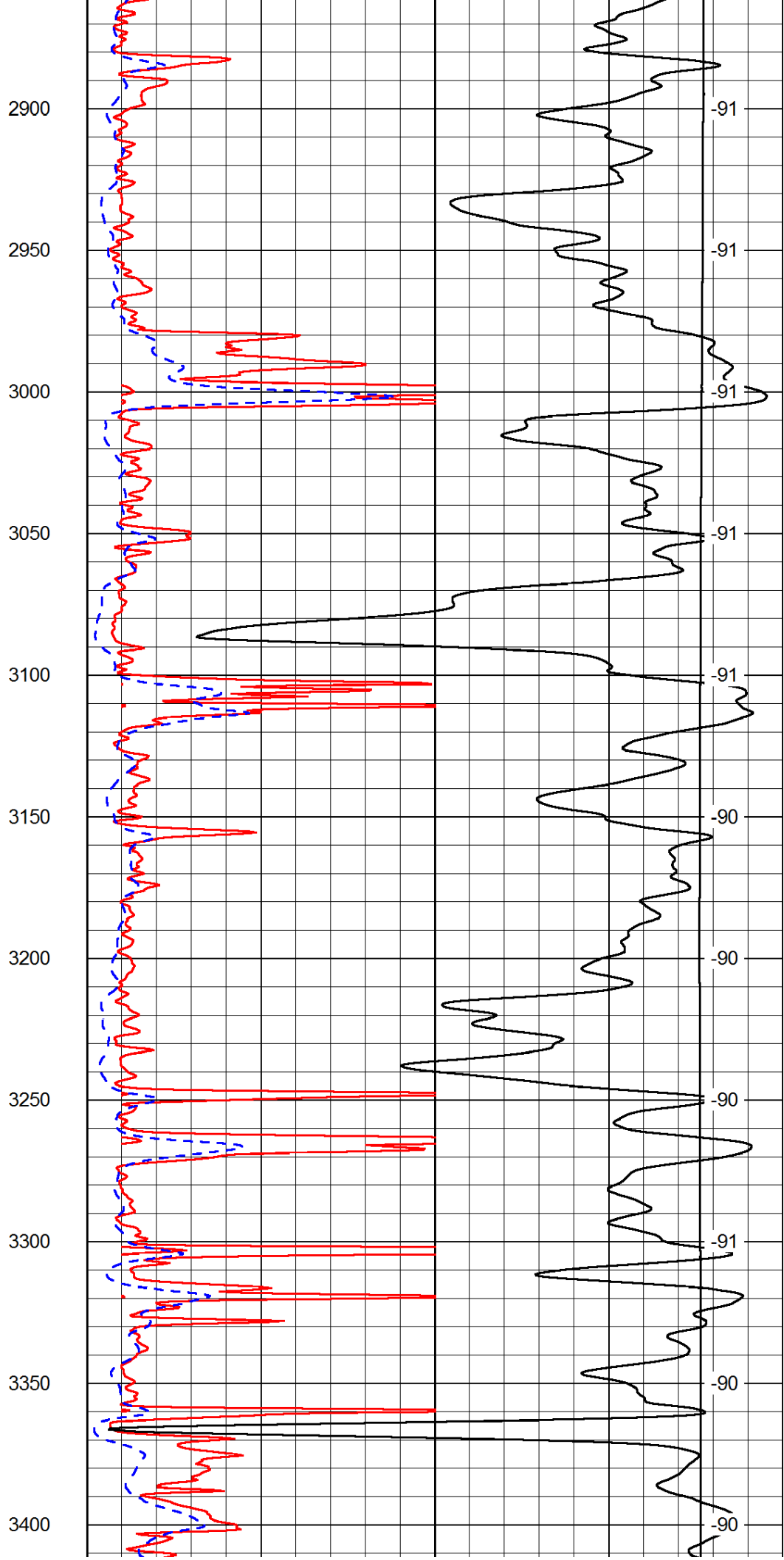
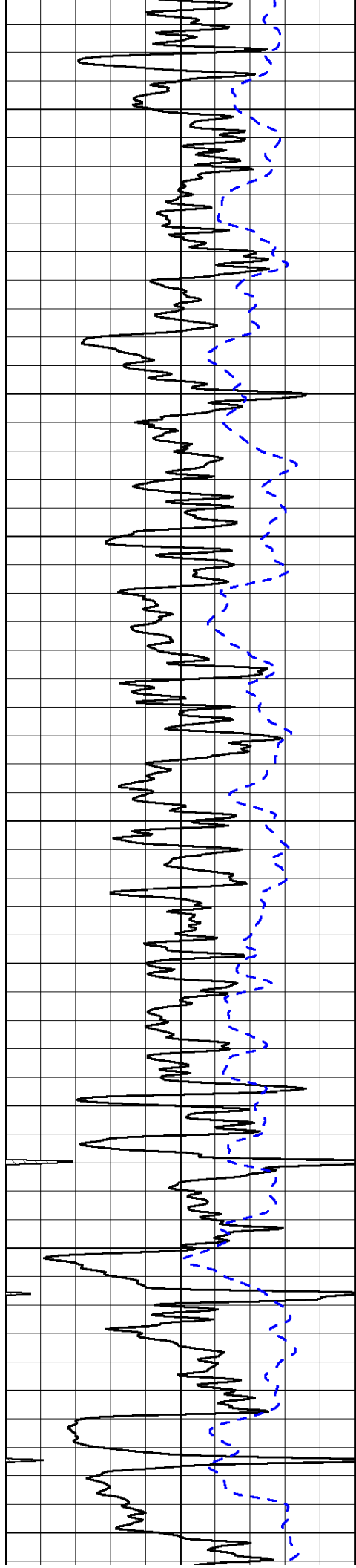


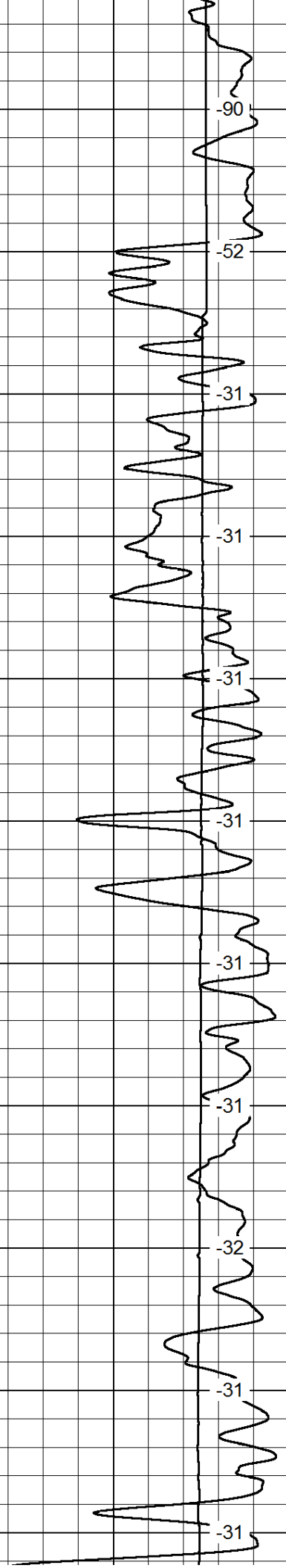
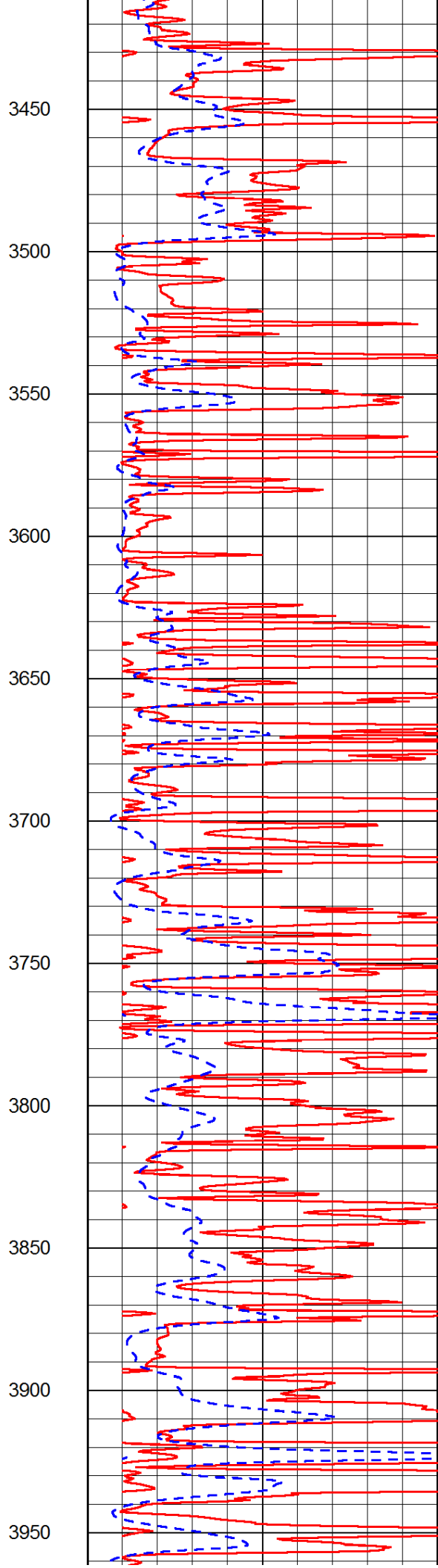
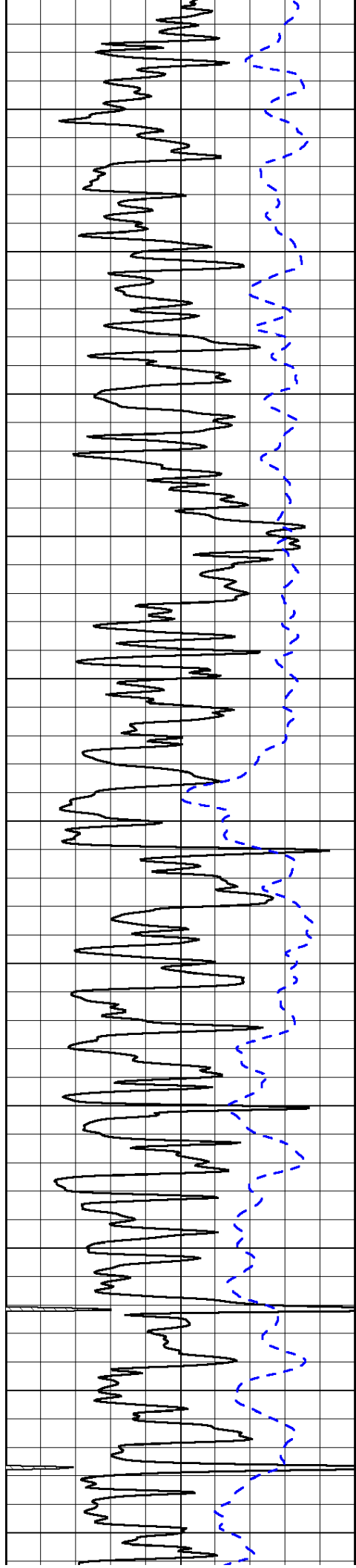


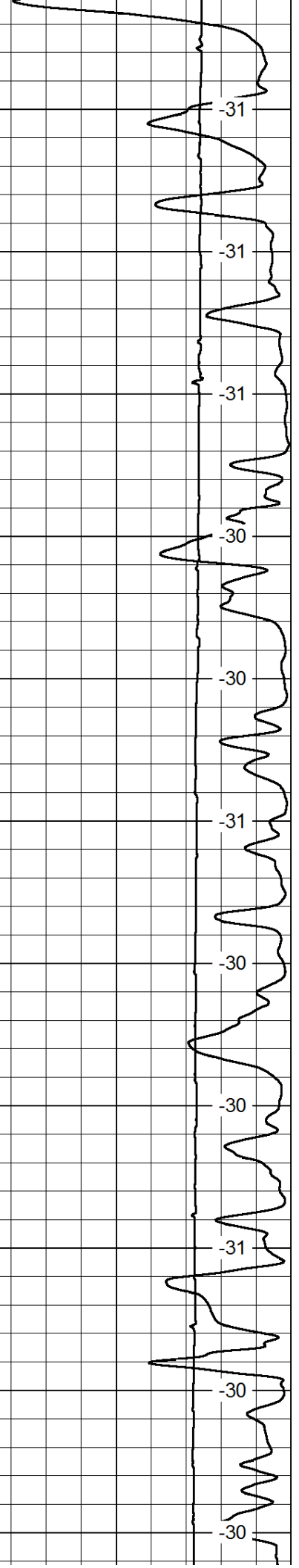
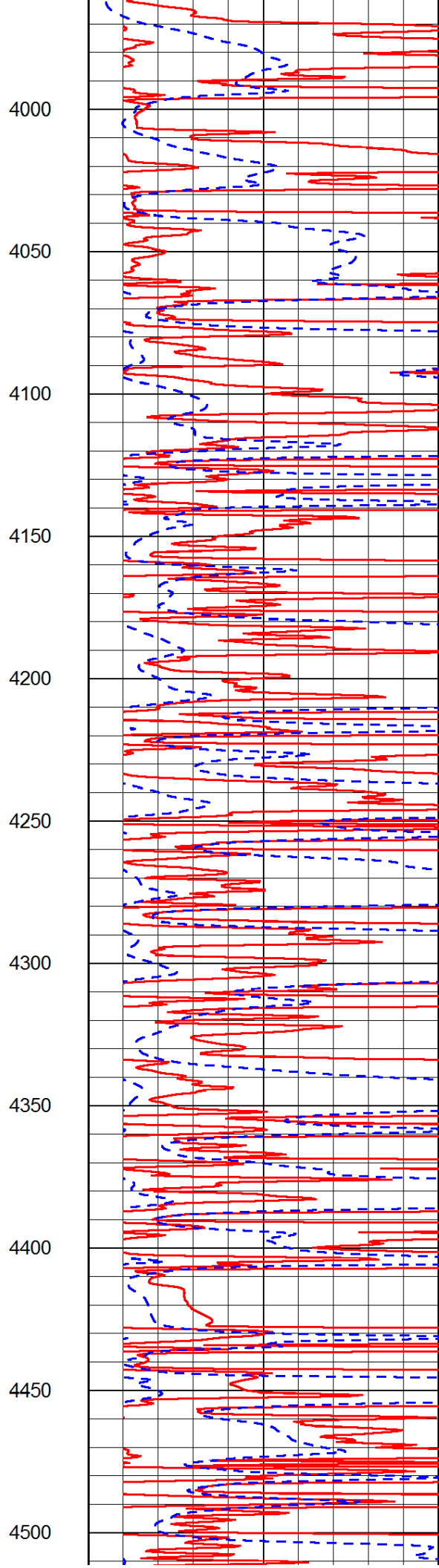
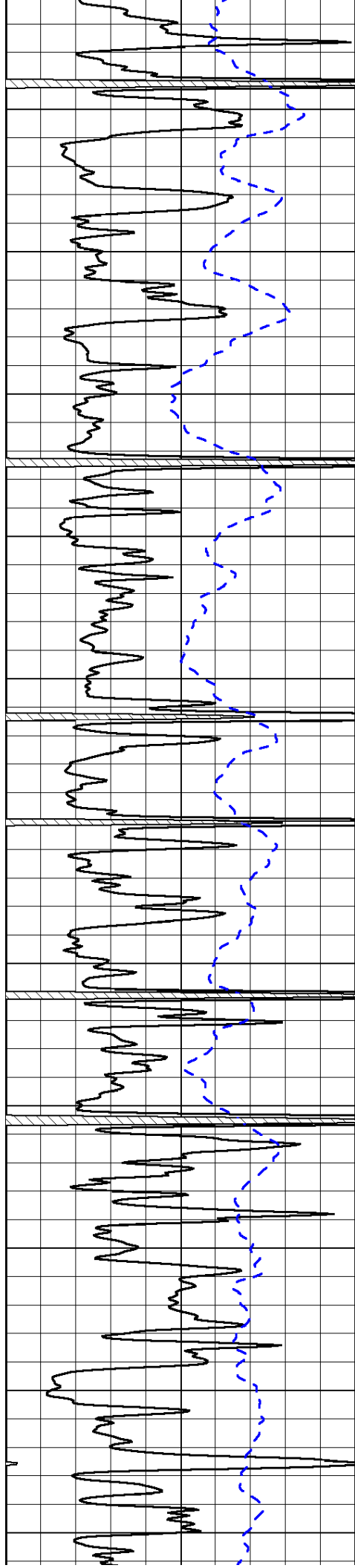


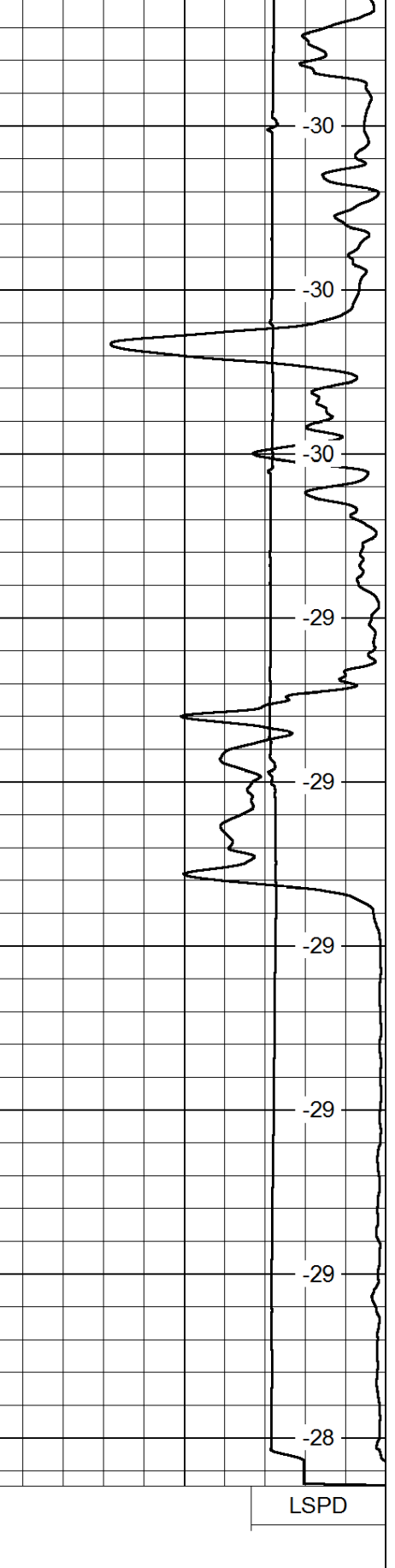
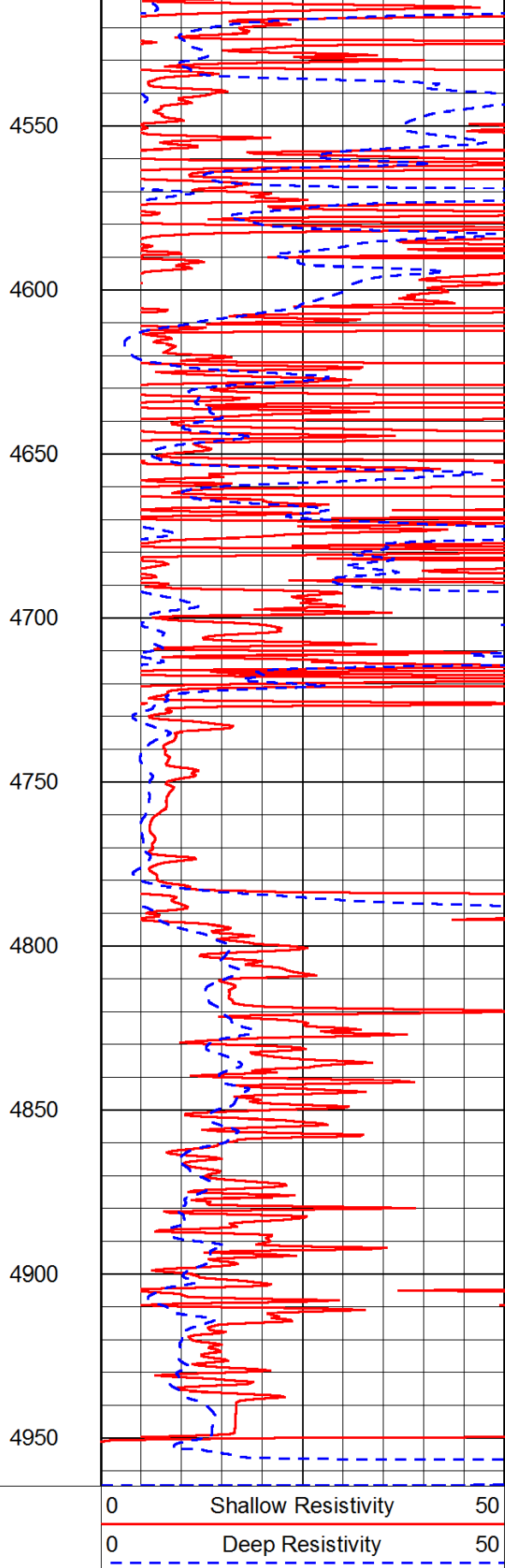
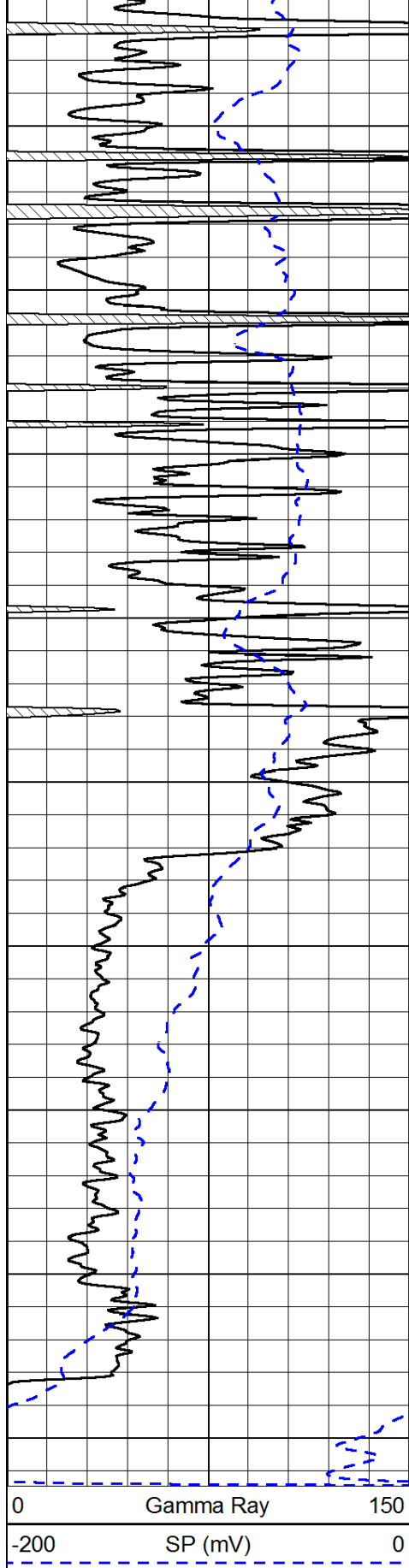












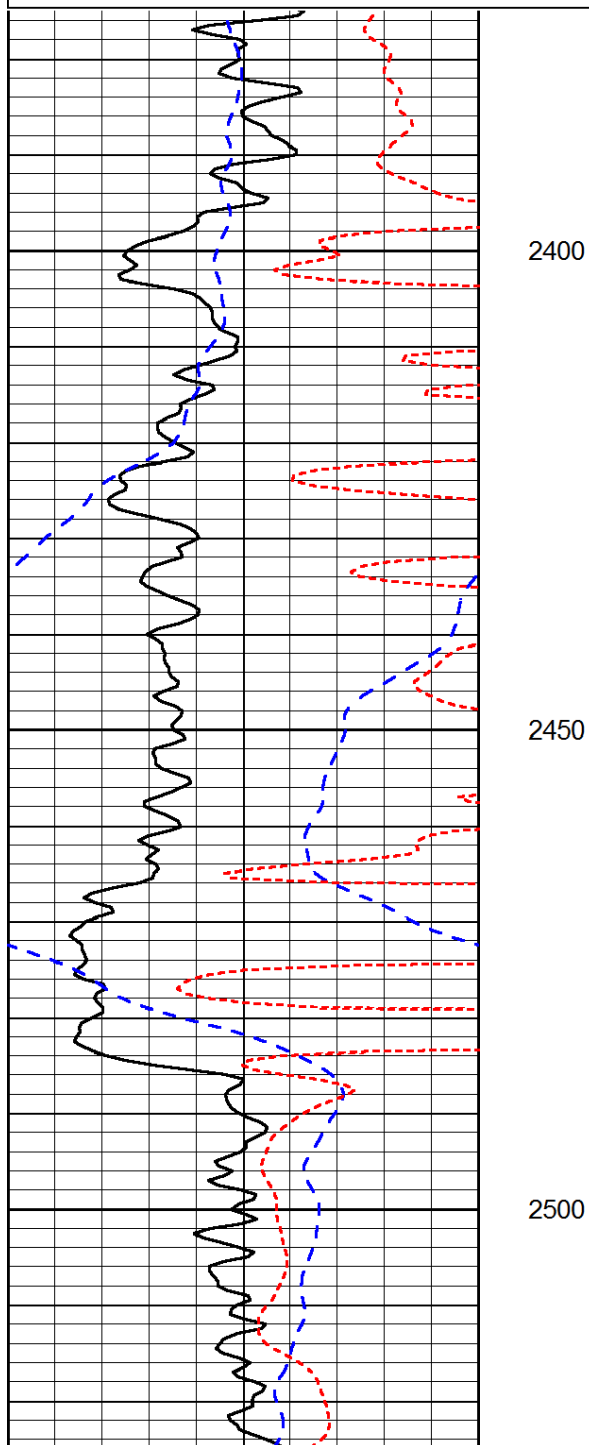
0	Gamma Ray	150
-200	SP (mV)	0
0	Shallow Resistivity	50
0	Deep Resistivity	50
1000	Conductivity	0
15000	Line Tension	0
50	Shallow Resistivity	500
50	Deep Resistivity	500

Database File: C:\work\data\antonio_ali\radnor_#1\antonio_ali\radnor_1.mda
Dataset Pathname: DIL/ritchstk2
Presentation Format: dil
Dataset Creation: Sat Feb 08 16:09:05 2014
Charted by: Depth in Feet scaled 1:240

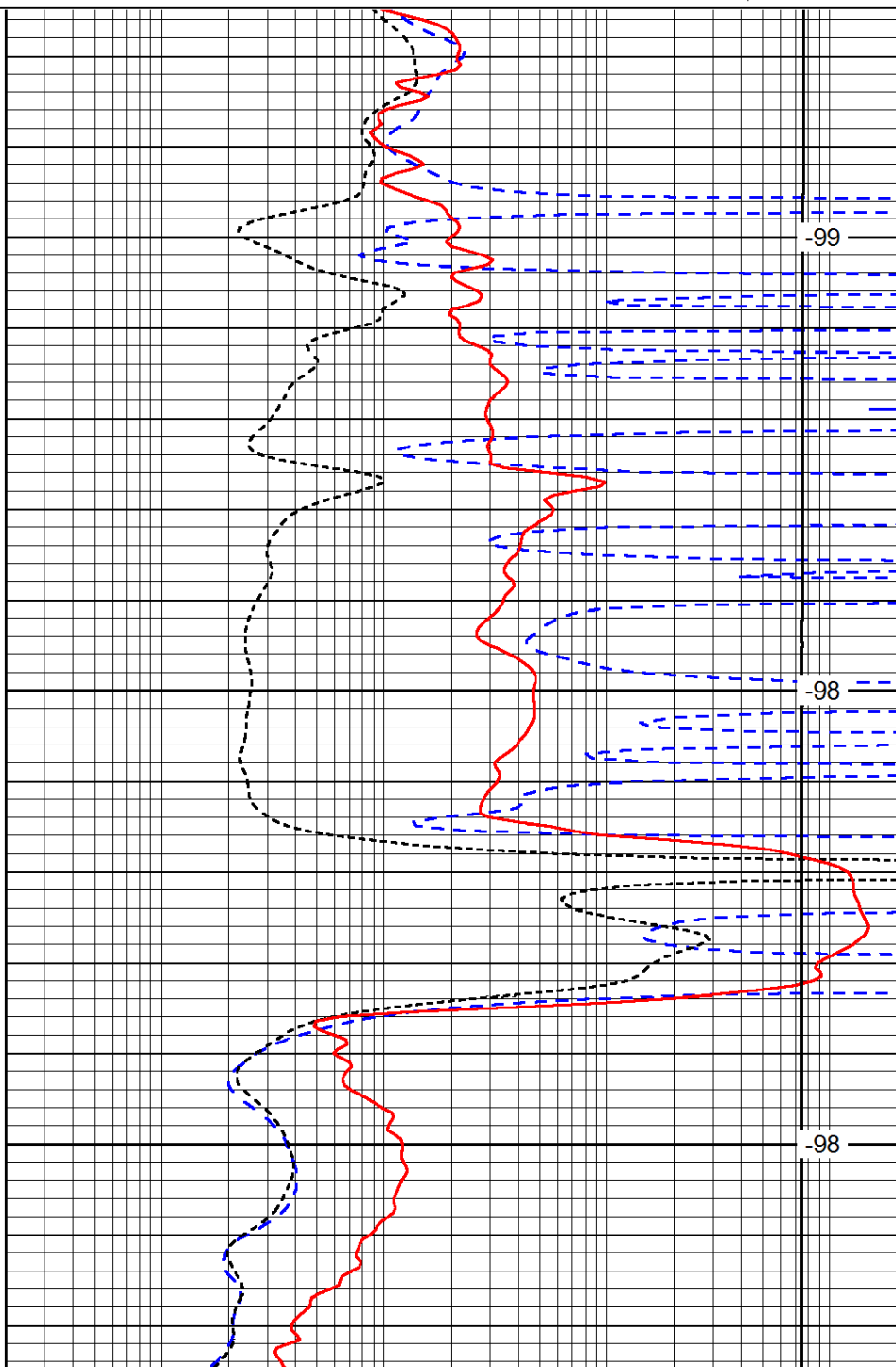
0	Gamma Ray	150
-200	SP (mV)	0
-160	RxoRt	40

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

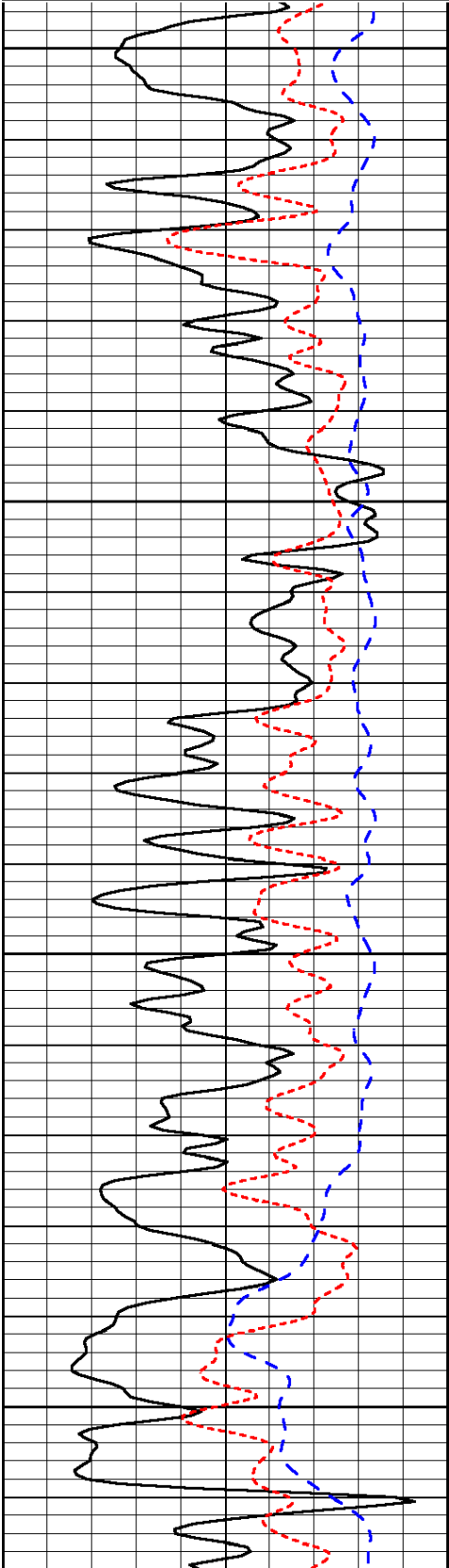
LSPD

Database File: c:\warrior\data\ritchie_allen-radnor #1\ritchie_allen_radnor_1hd.db
Dataset Pathname: DIL/ritchstk2
Presentation Format: dil
Dataset Creation: Sat Feb 08 16:09:05 2014
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

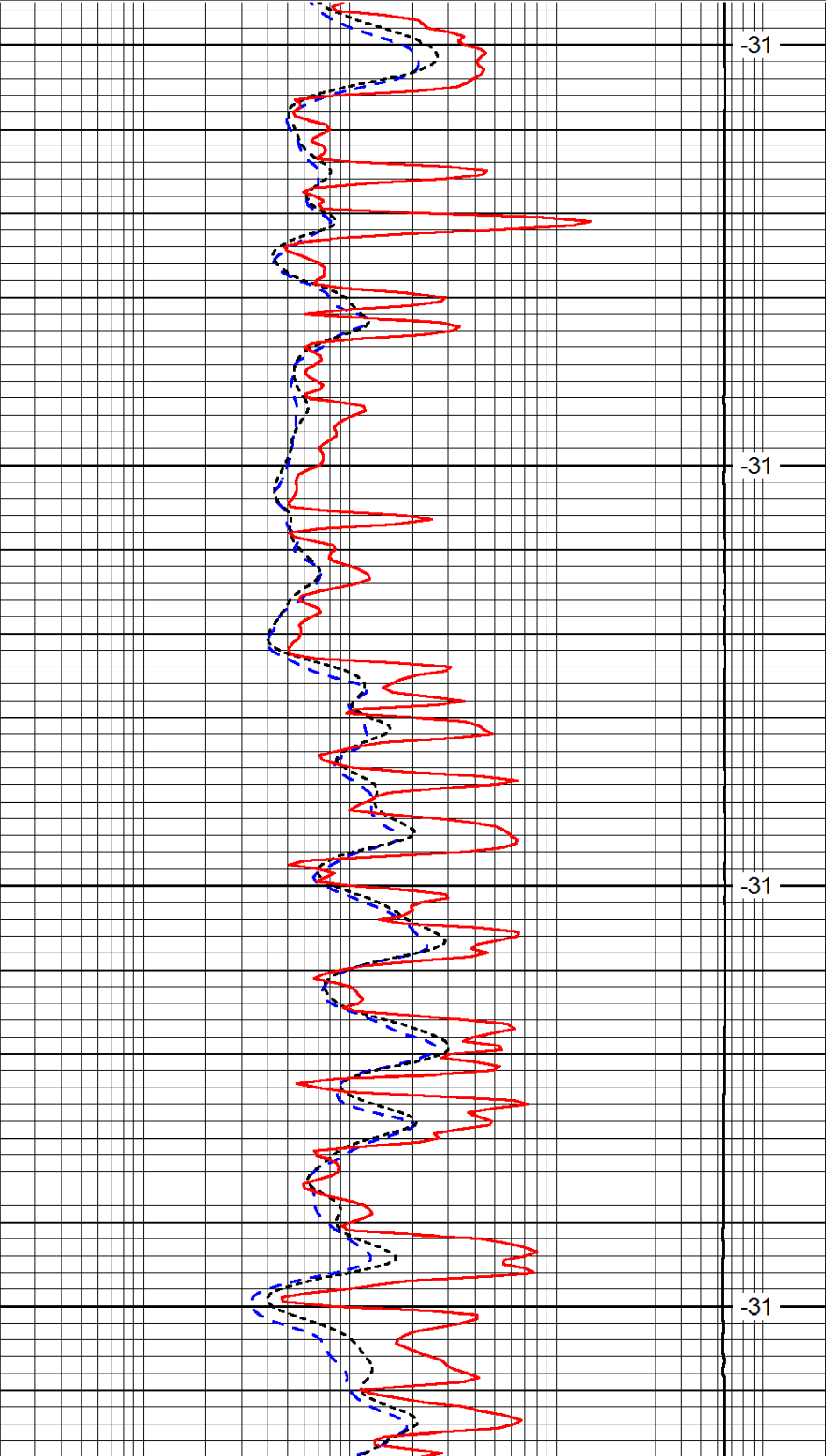


3550

3600

3650

3700

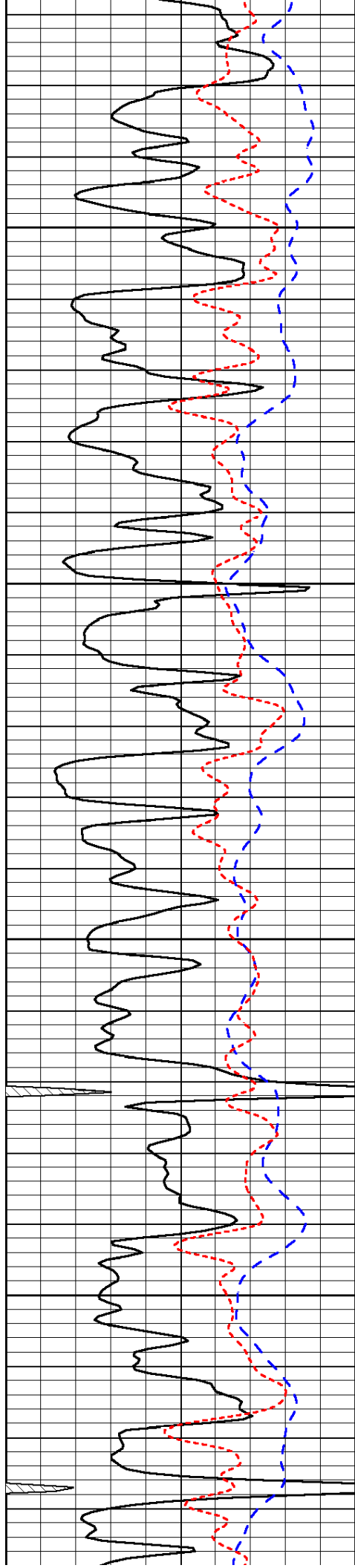


-31

-31

-31

-31

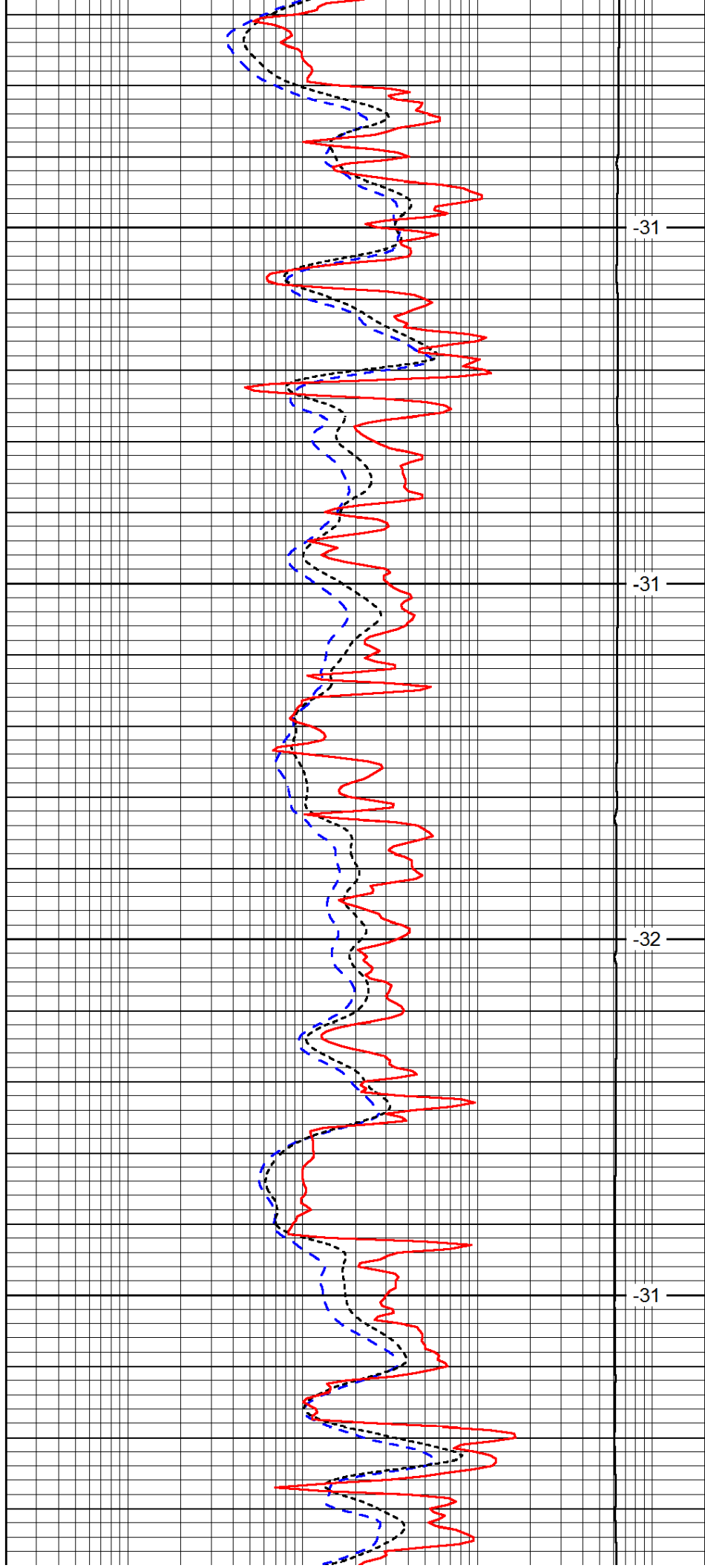


3750

3800

3850

3900

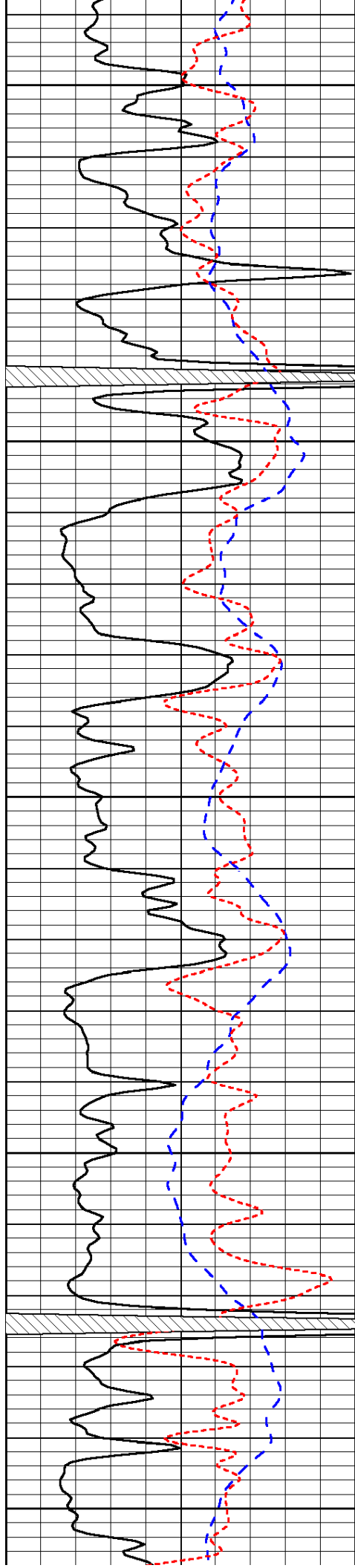


-31

-31

-32

-31



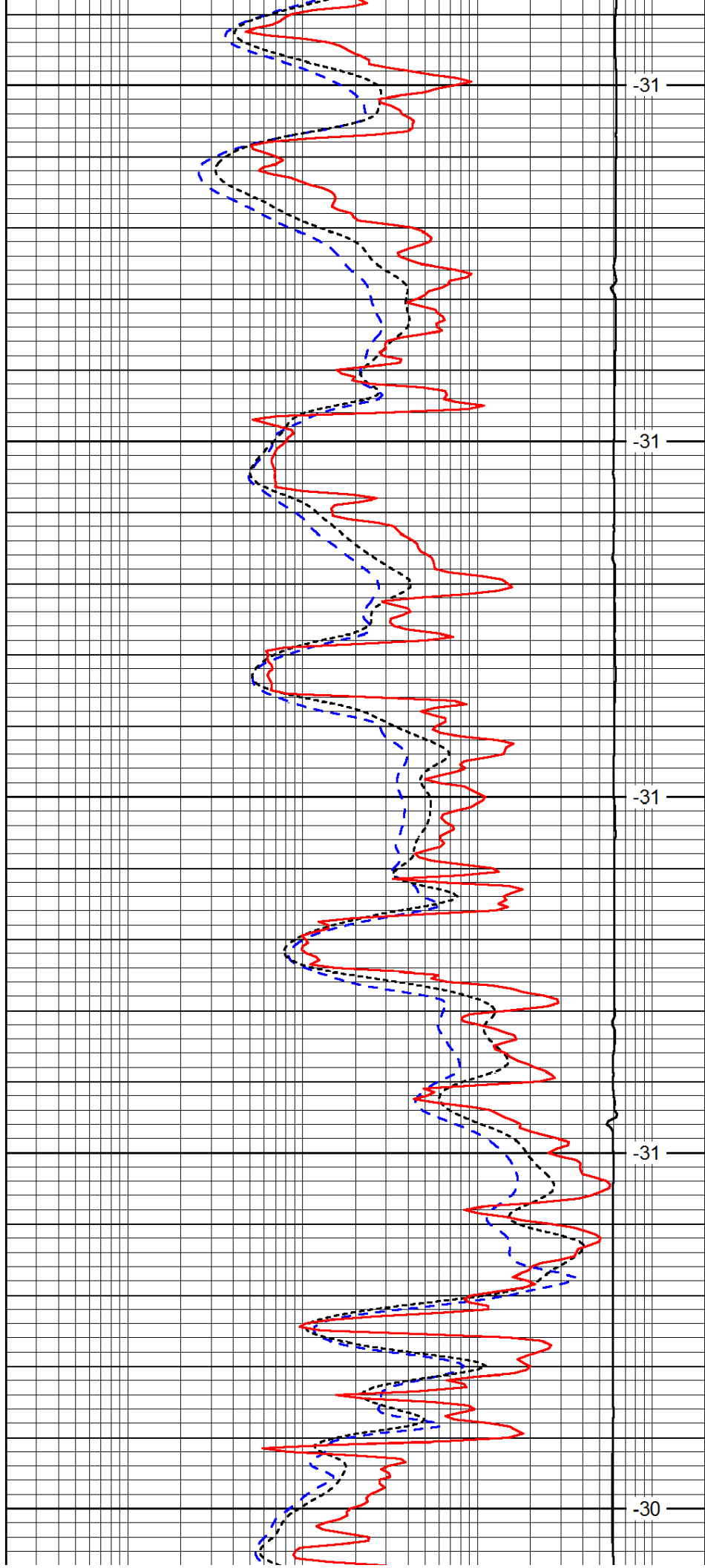
3950

4000

4050

4100

4150



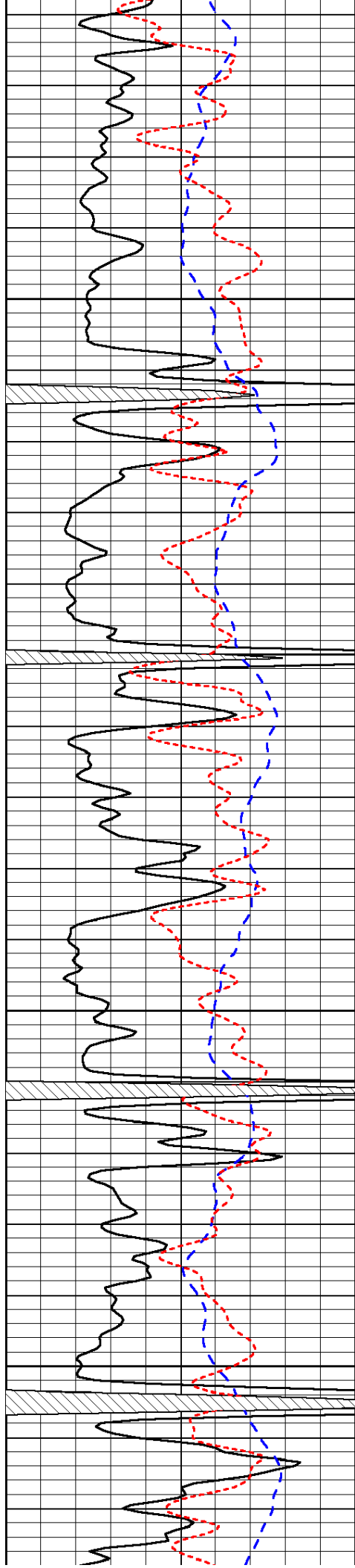
-31

-31

-31

-31

-30

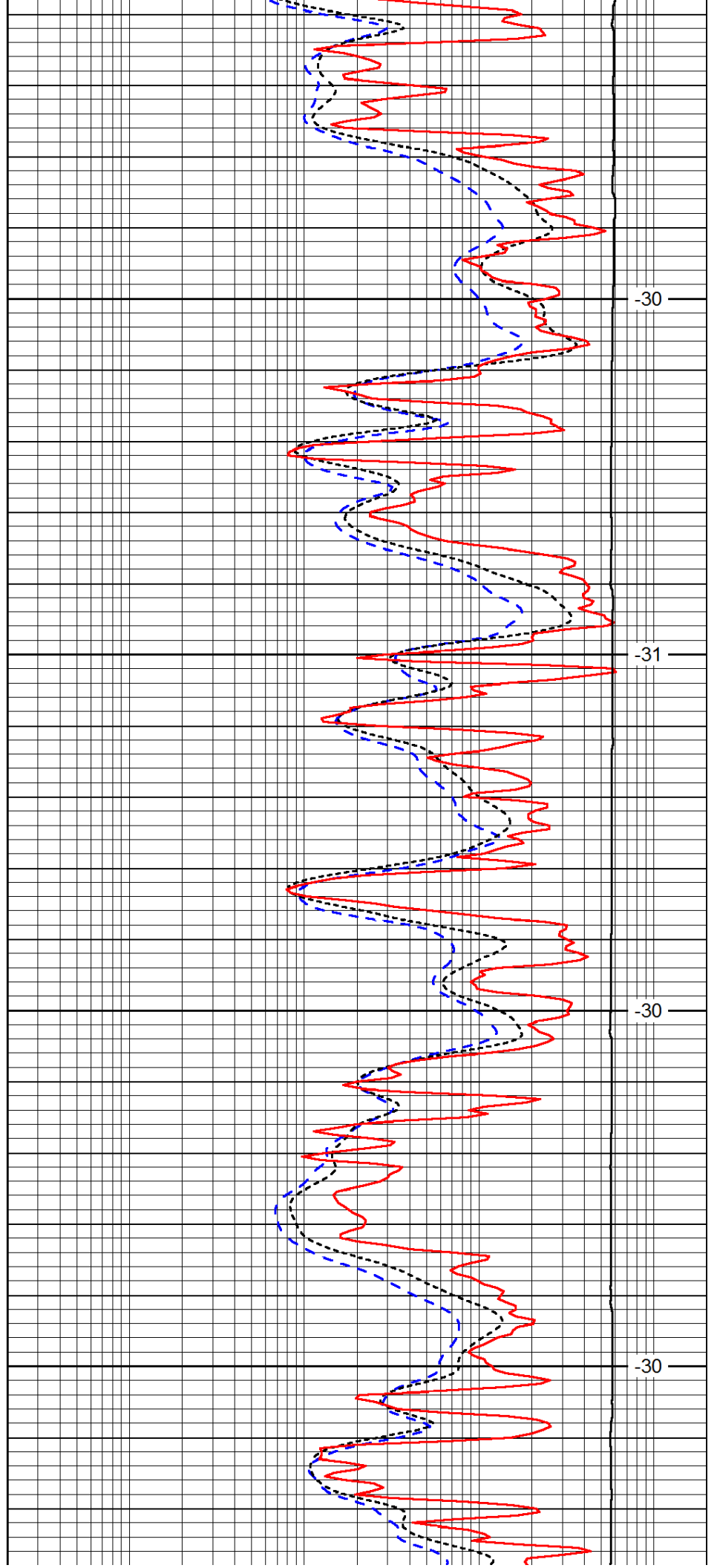


4200

4250

3000

4350

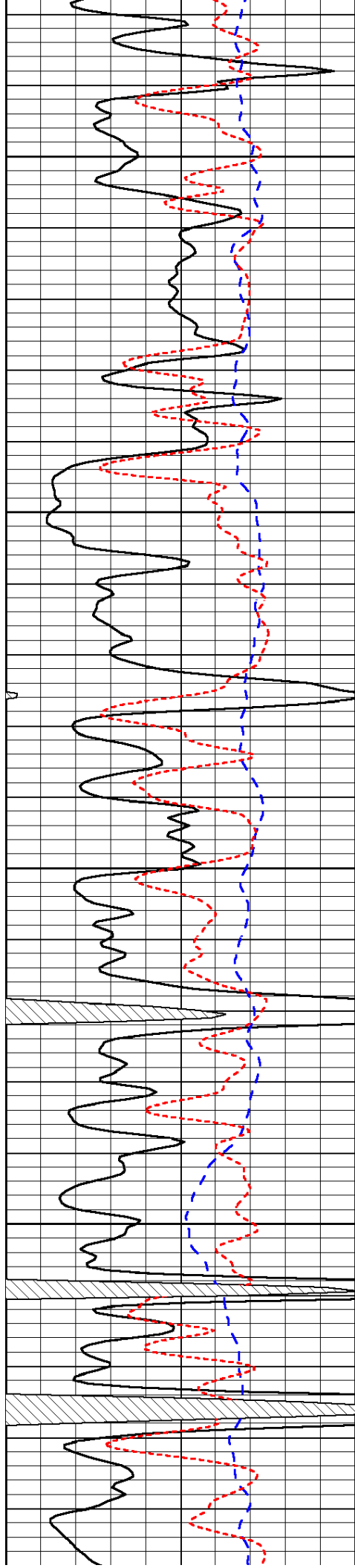


-30

-31

-30

-30

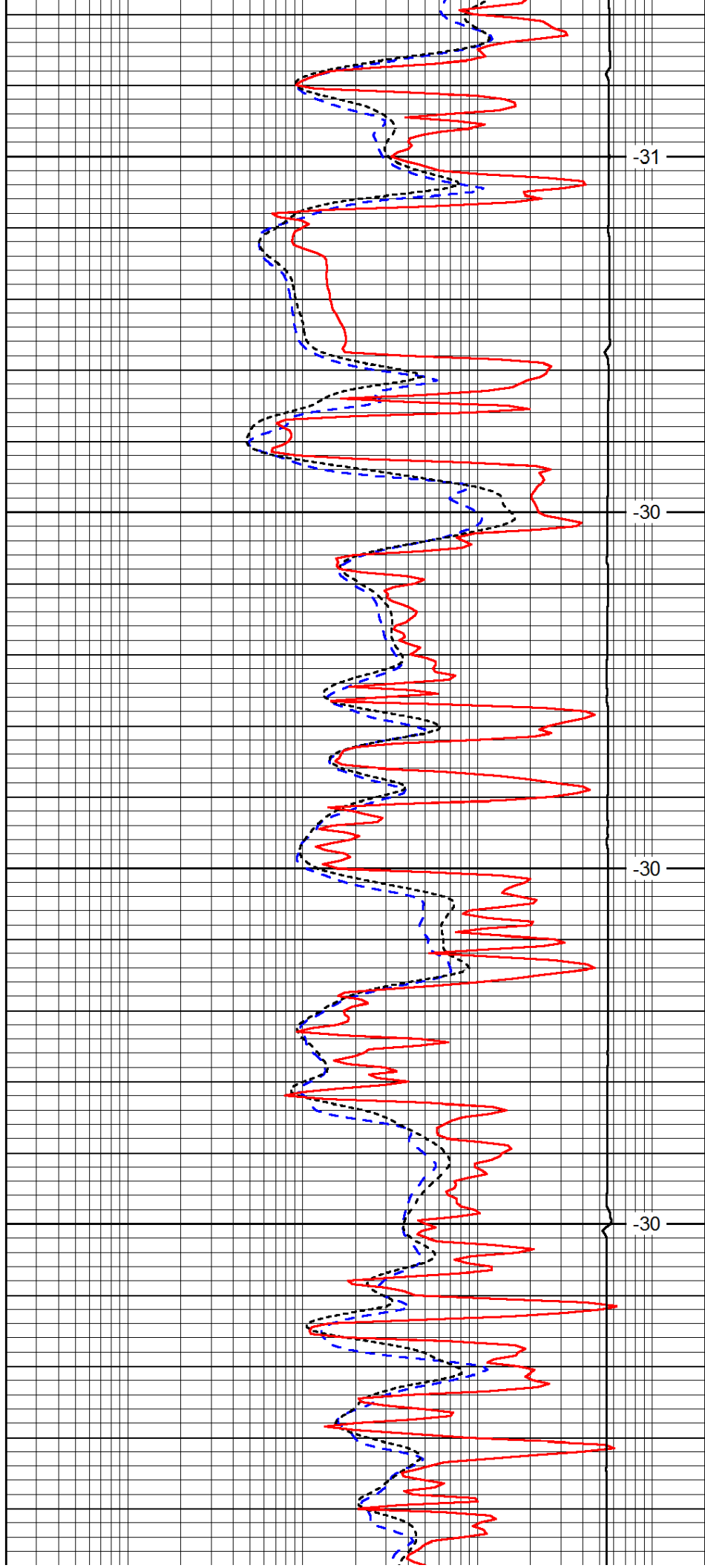


4400

4450

4500

4550

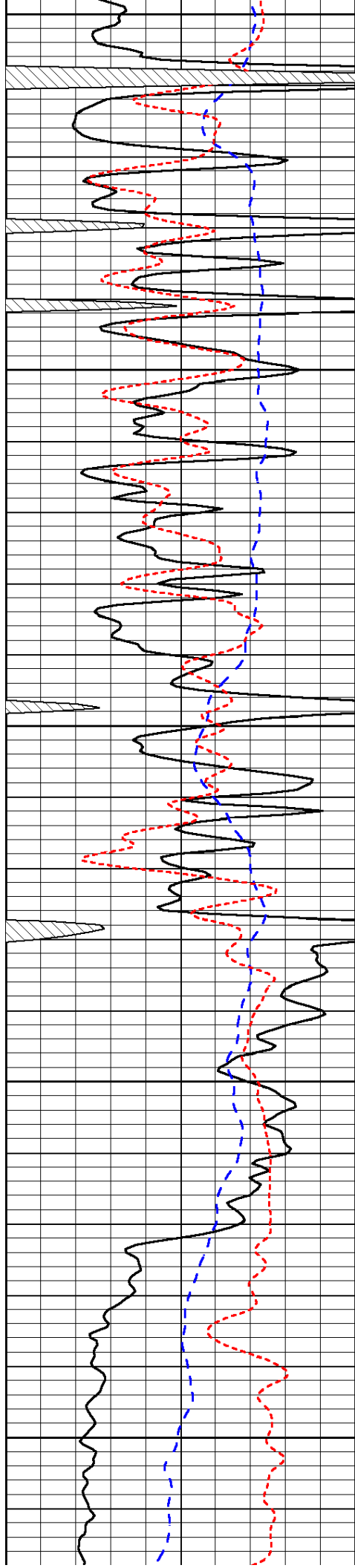


-31

-30

-30

-30



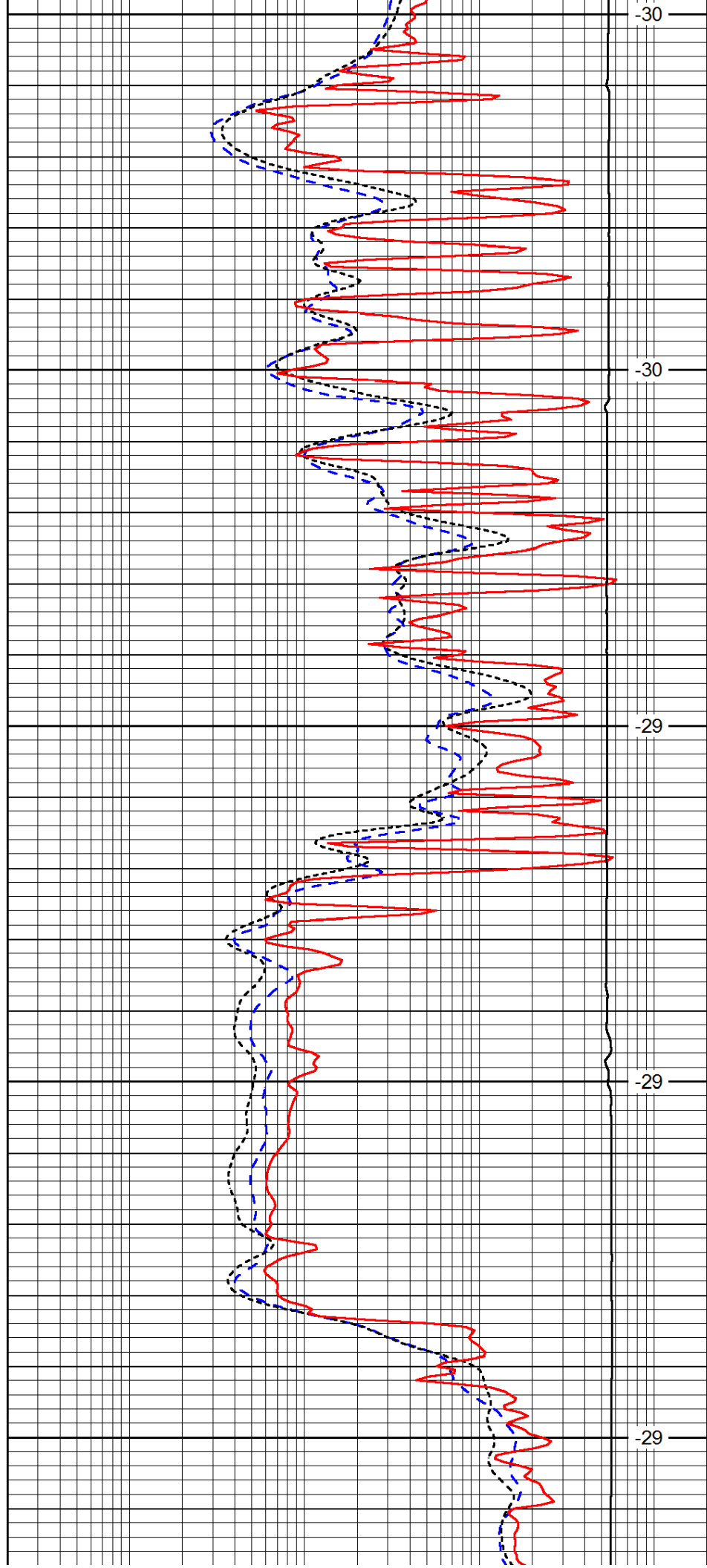
4600

4650

4700

4750

4800



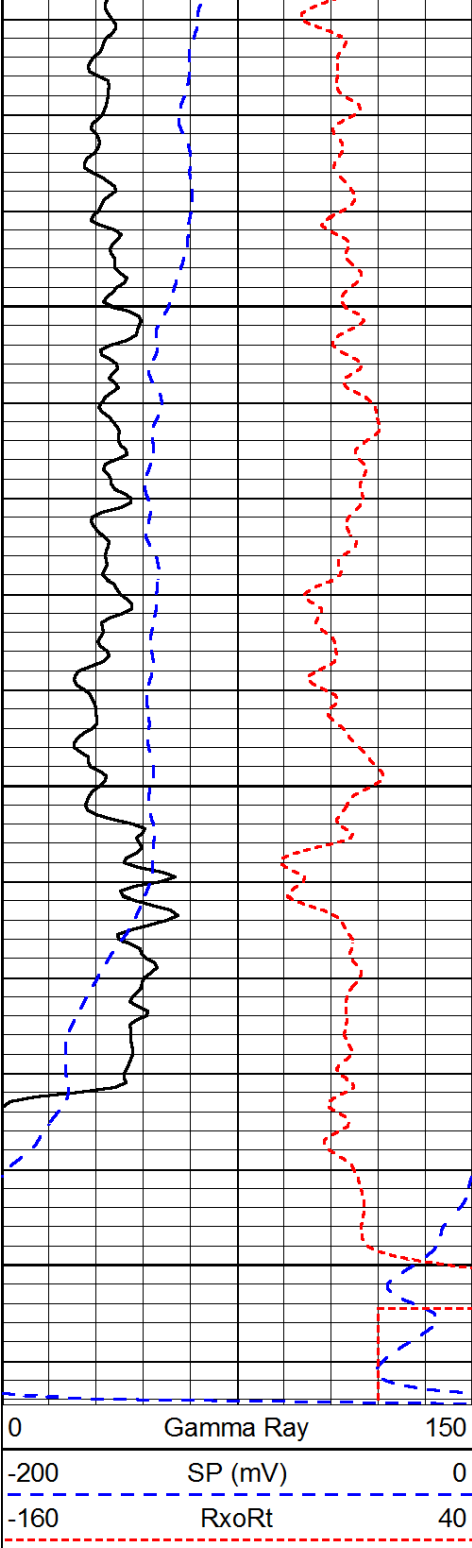
-30

-30

-29

-29

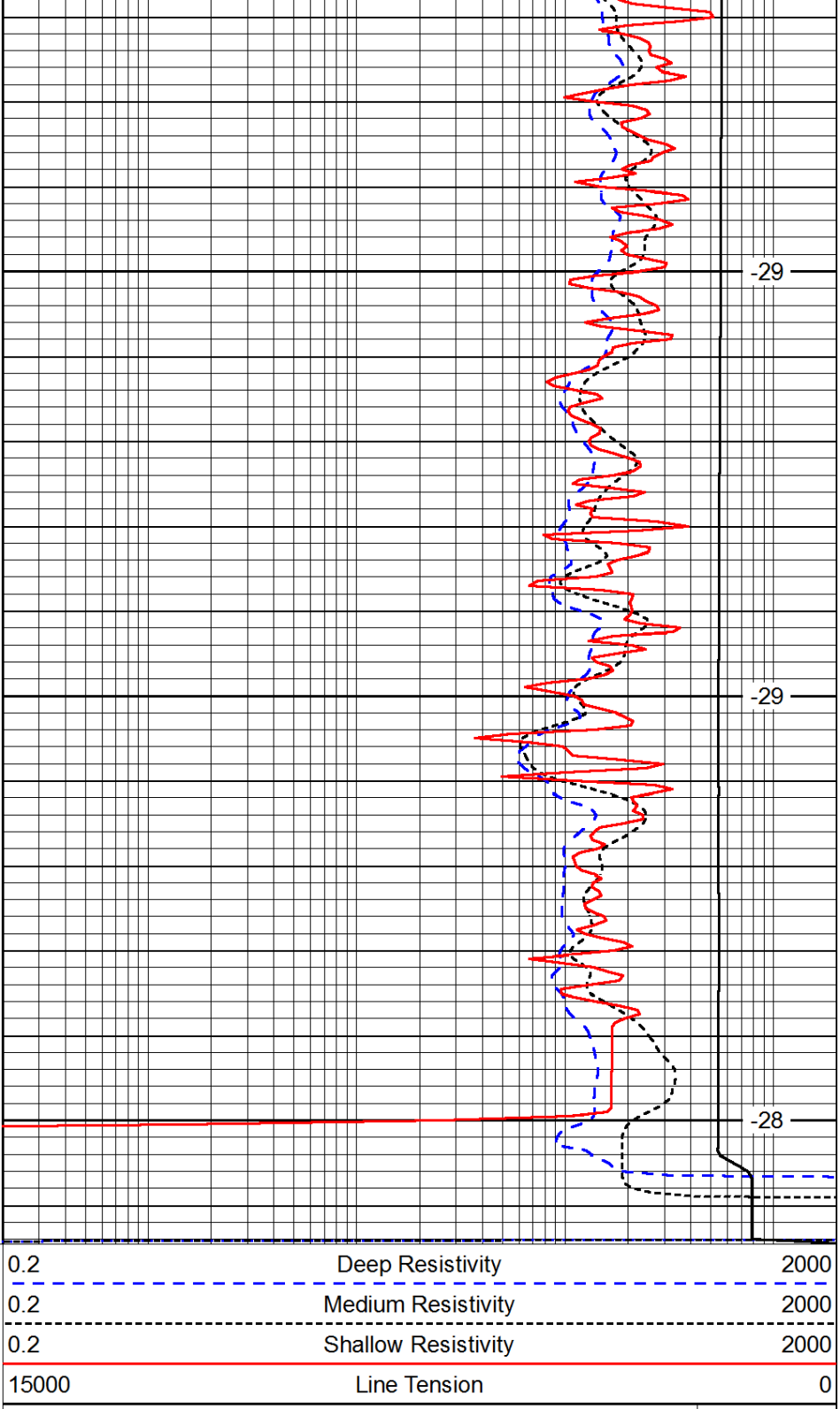
-29



4850

4900

4950



-29

-29

-28

LSPD