



Dual Induction Log

Pioneer Energy Services

API No.	Company RJM Oil Company, Inc.		
	Well Hammeke #1		
	Field Unnamed		
	County Barton	State	Kansas
	Location 1150' FNL & 1100' FWL	Other Services CNL/CDL MEL/BHCS	
	Sec: 13	Twp: 19 S	Rge: 12 W
	Permanent Datum Ground Level		Elevation 1815
	Log Measured From Kelly Bushing		9 Ft. Above Perm. Datum
	Drilling Measured From Kelly Bushing		K.B. 1824 D.F. 1815 G.L. 1815
Date	7/24/2013		
Run Number	One		
Depth Driller	3462		
Depth Logger	3462		
Bottom Logged Interval	3461		
Top Log Interval	350		
Casing Driller	8.625 @ 391		
Casing Logger	390		
Bit Size	7.875		
Type Fluid in Hole	Chemical		
Salinity, ppm CL	8000		
Density / Viscosity	9.2 48		
pH / Fluid Loss	8.5 10.4		
Source of Sample	Flowline		
Rm @ Meas. Temp	0.30 @ 76		
Rmf @ Meas. Temp	0.22 @ 76		
Rmc @ Meas. Temp	0.40 @ 76		
Source of Rmf / Rmc	Charts		
Rm @ BHT	0.20 @ 113		
Operating Rig Time	4 Hours		
Max Rec. Temp. F	113		
Equipment Number	91		
Location	Hays		
Recorded By	D. Schmidt		
Witnessed By	Jim Musgrove		

<<< 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.

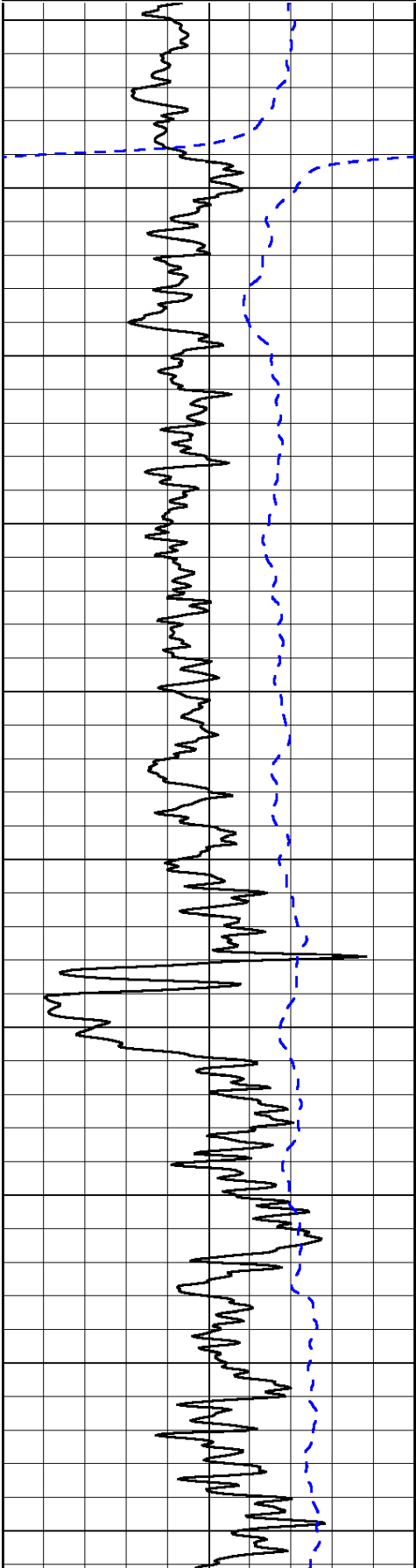
Comments

Thank you for using Pioneer Energy Services
www.pioneerres.com
785 625 3858
Ellinwood,
West to 90 Ave, 3 North,
East into

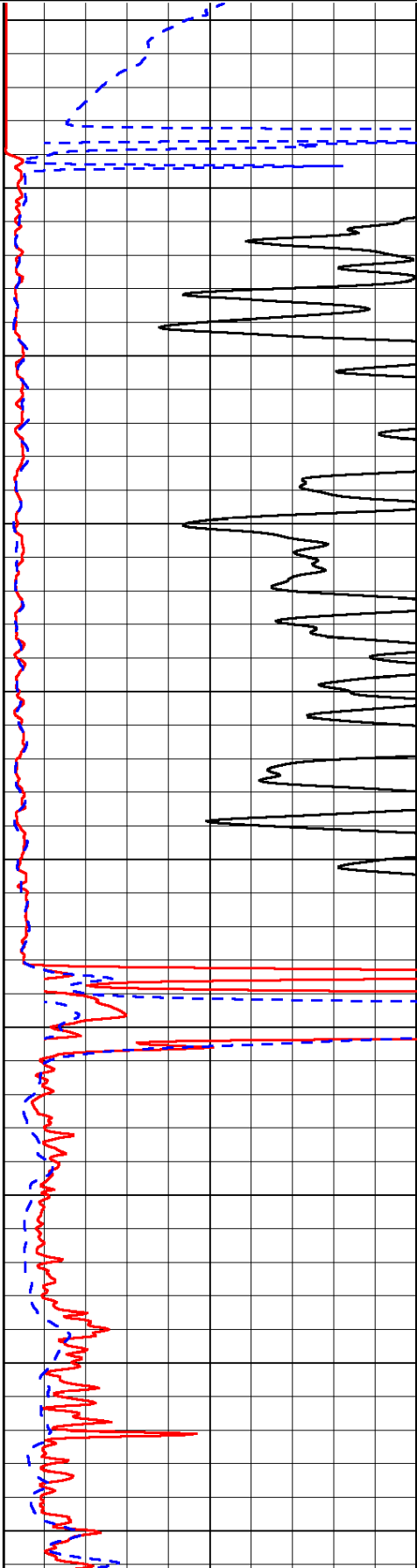
Database File: c:\warrior\data\rjm_hammeke #1\rjm_072313hd.db
Dataset Pathname: dil\rjmsstk
Presentation Format: dil2in
Dataset Creation: Wed Jul 24 12:08:35 2013
Charted by: Depth in Feet scaled 1:600

Charted by: Depth in Feet scaled 1:600

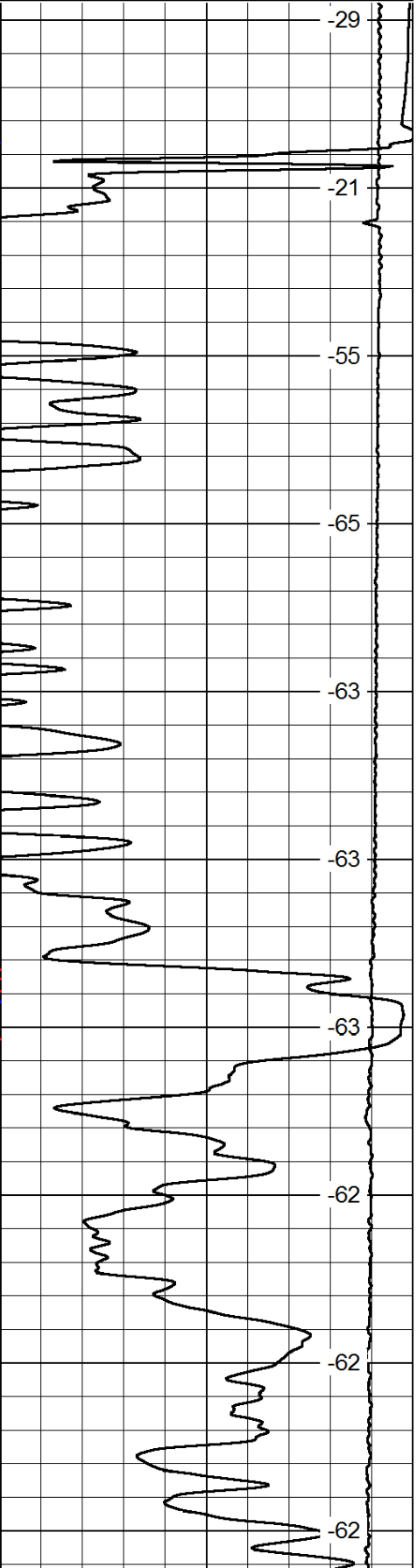
0	Gamma Ray	150
-200	SP (mV)	0

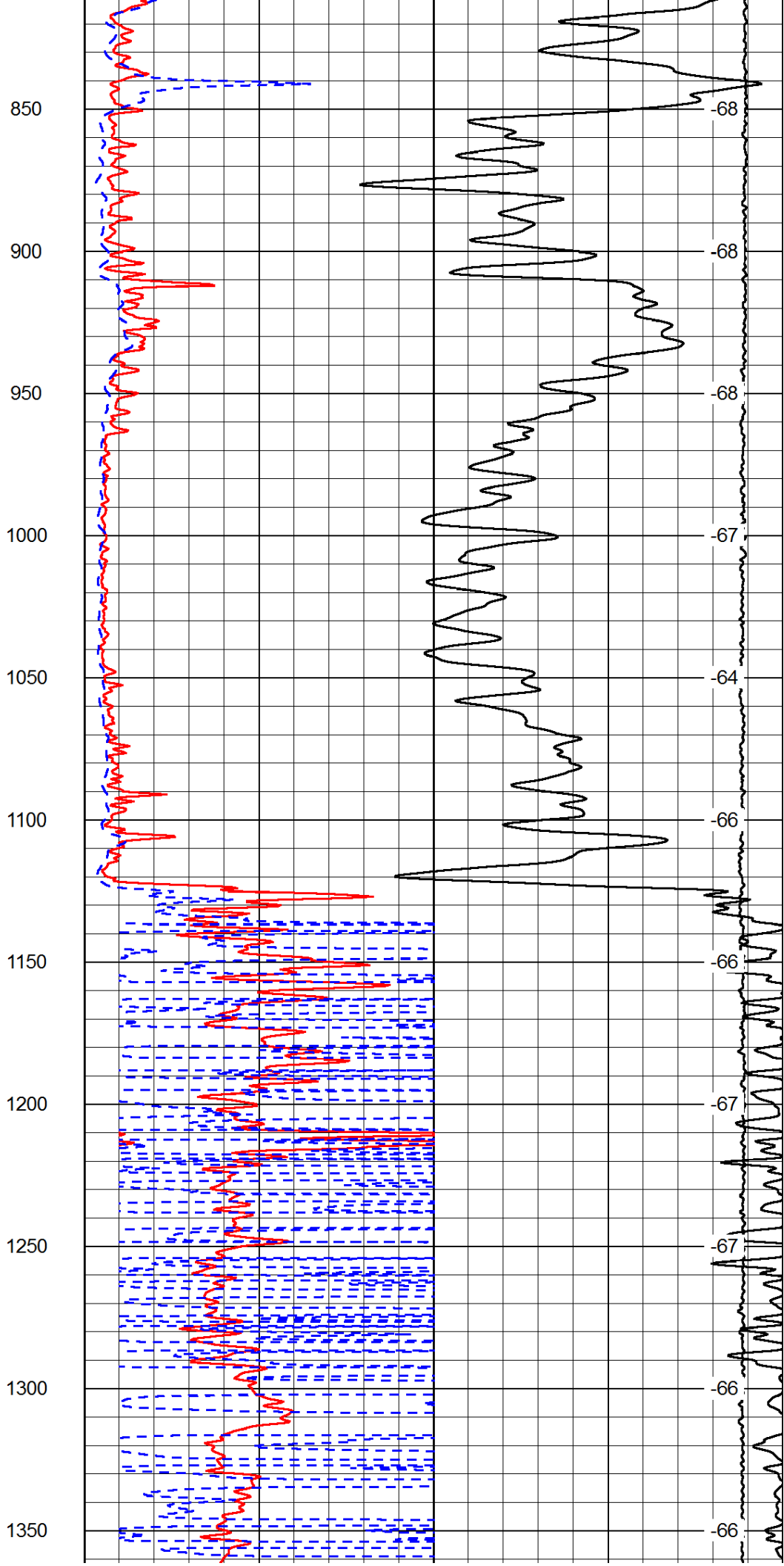
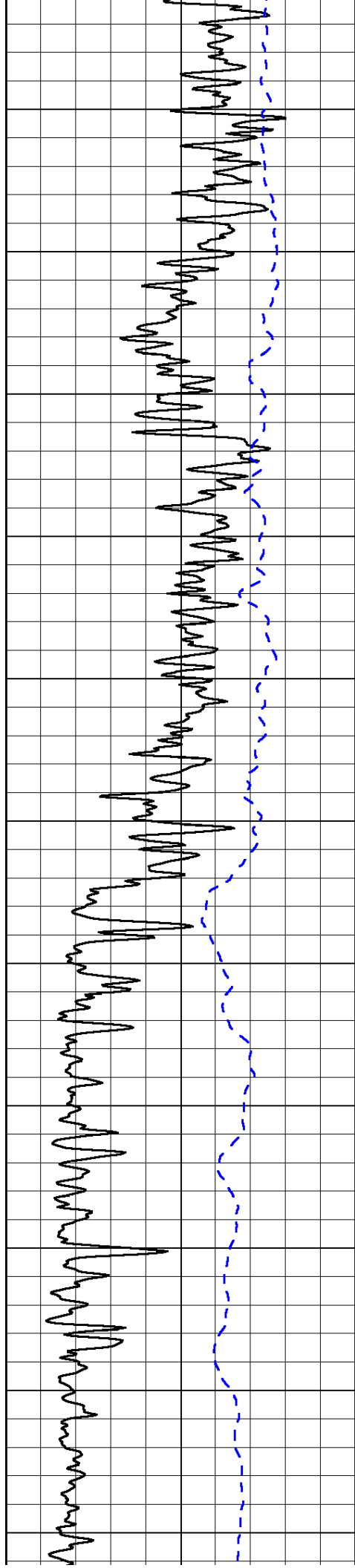


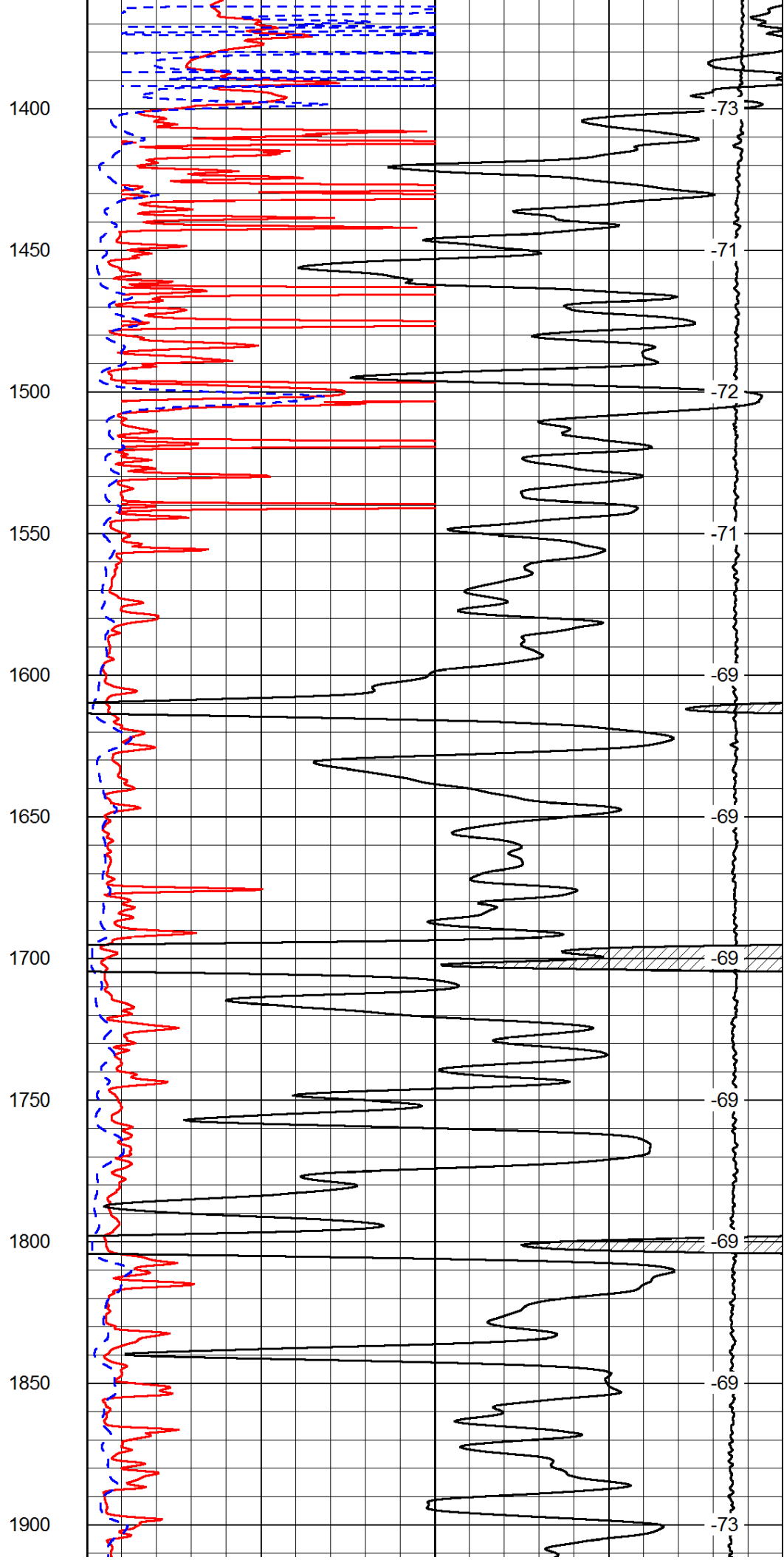
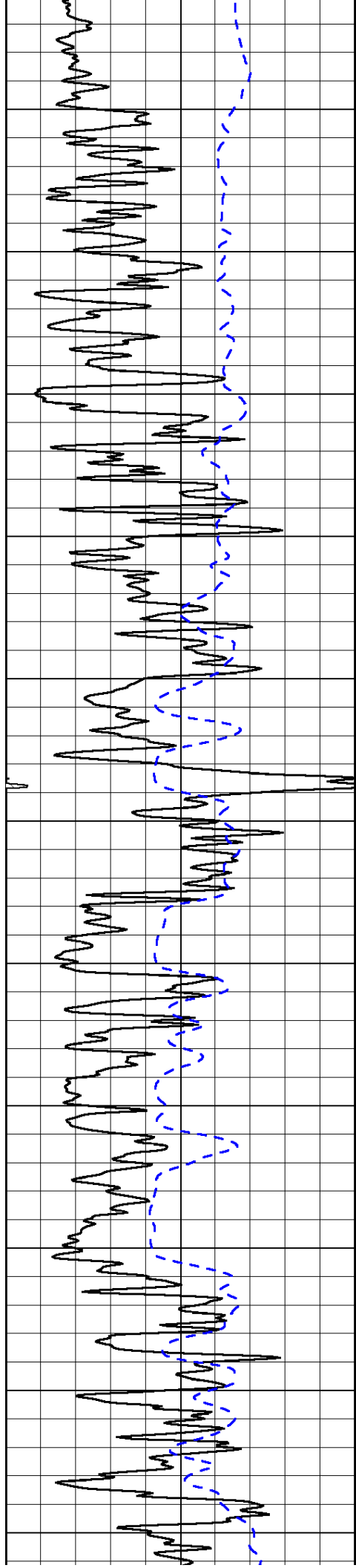
0	Shallow Resistivity	50
0	Deep Resistivity	50
1000	Conductivity	0
15000	Line Tension	0
50	Shallow Resistivity	500
50	Deep Resistivity	500

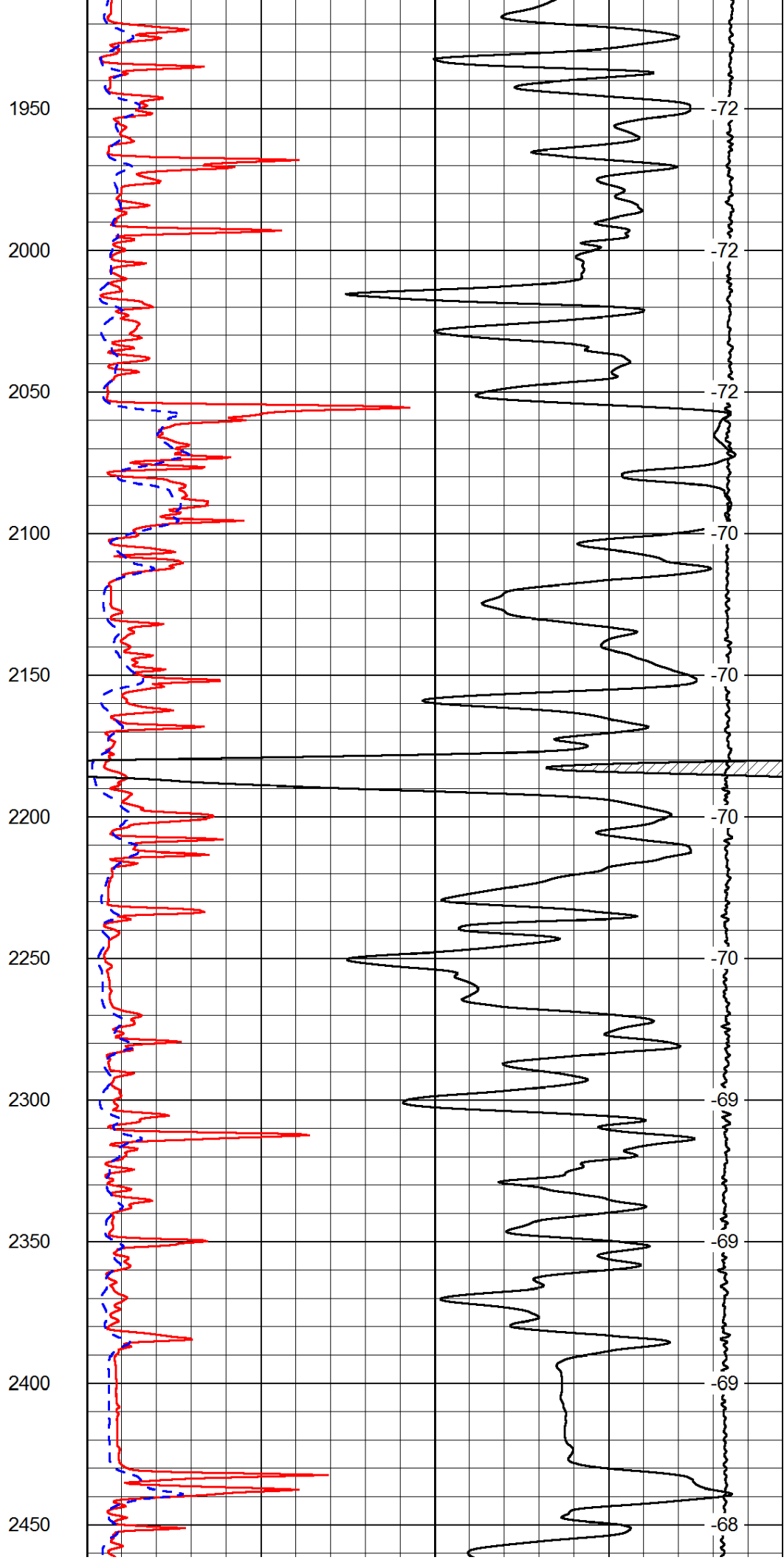
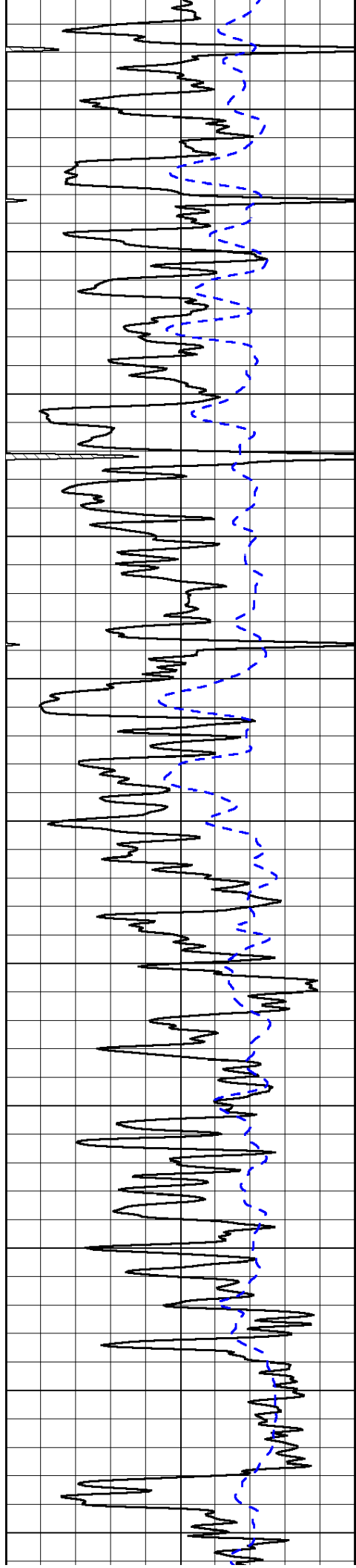


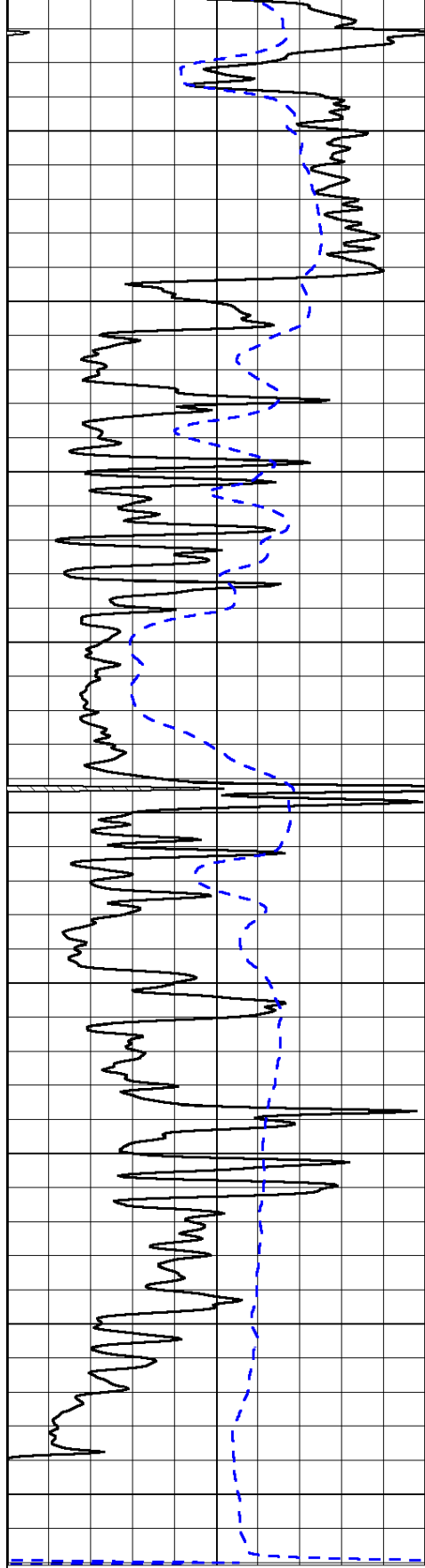
LSPD	0
------	---



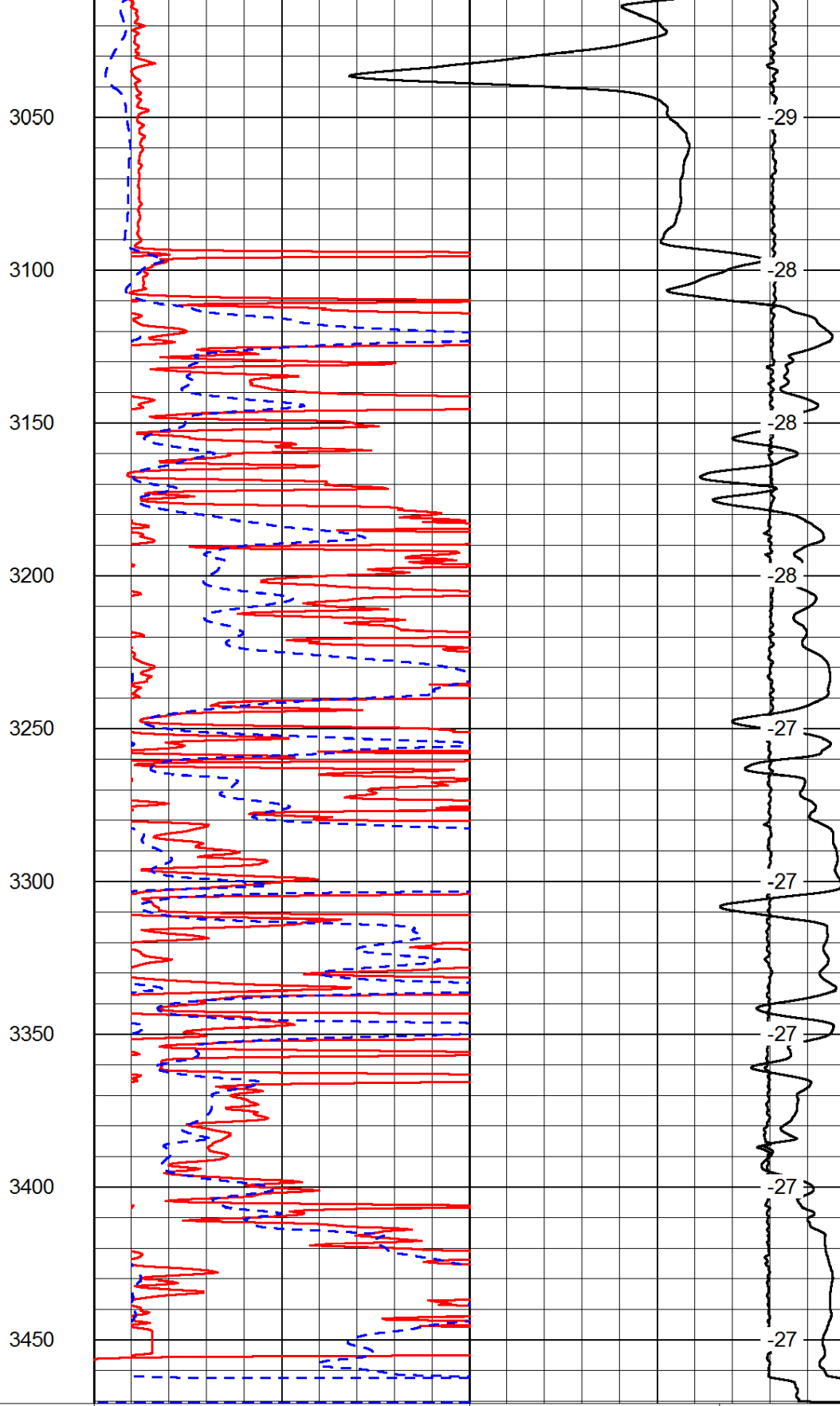








0 Gamma Ray 150
-200 SP (mV) 0



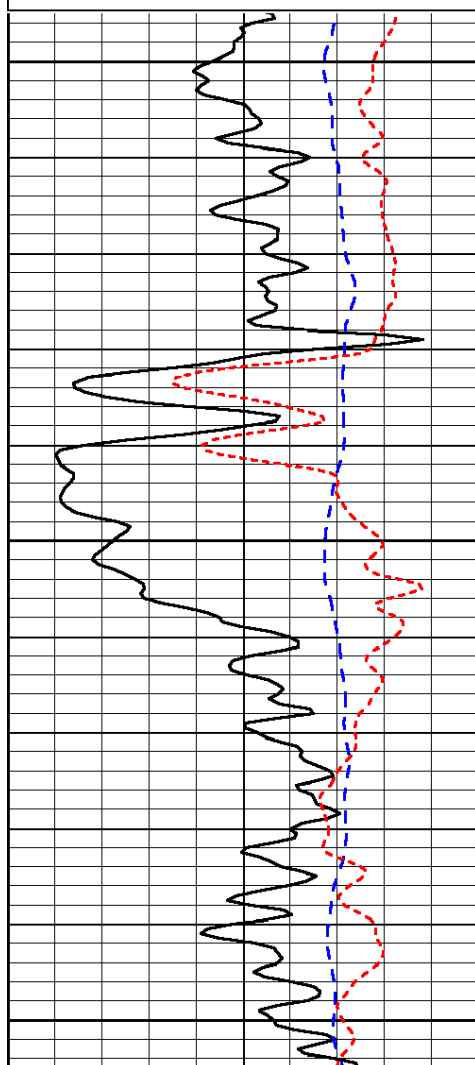
0	Shallow Resistivity	50	LSPD
0	Deep Resistivity	50	
1000	Conductivity		0
15000	Line Tension		0
50	Shallow Resistivity	500	
50	Deep Resistivity	500	

Database File: c:\warrior\data\rjm_hammeke #1\rjm_072313hd.db
Dataset Pathname: dil/rjmstk
Presentation Format: dil
Dataset Creation: Wed Jul 24 12:08:35 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

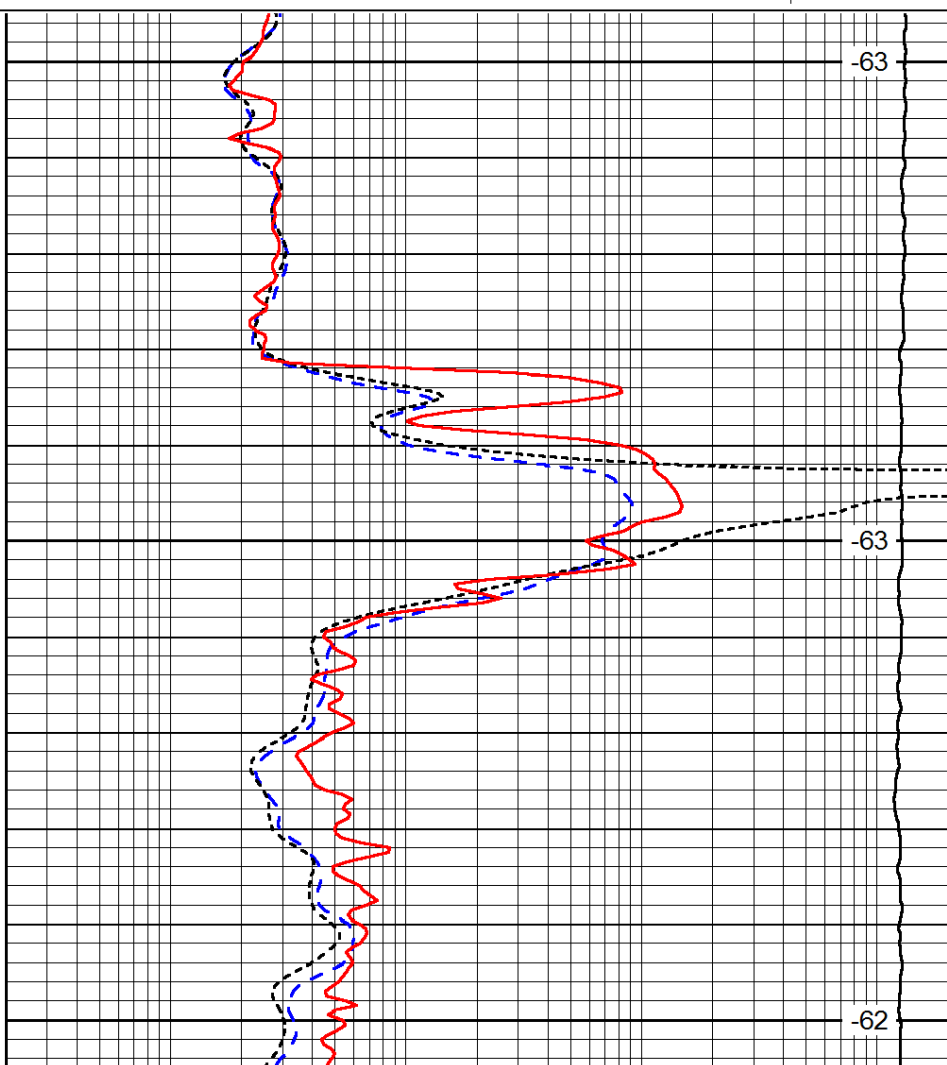
LSPD



600

650

700



-63

-63

-62

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

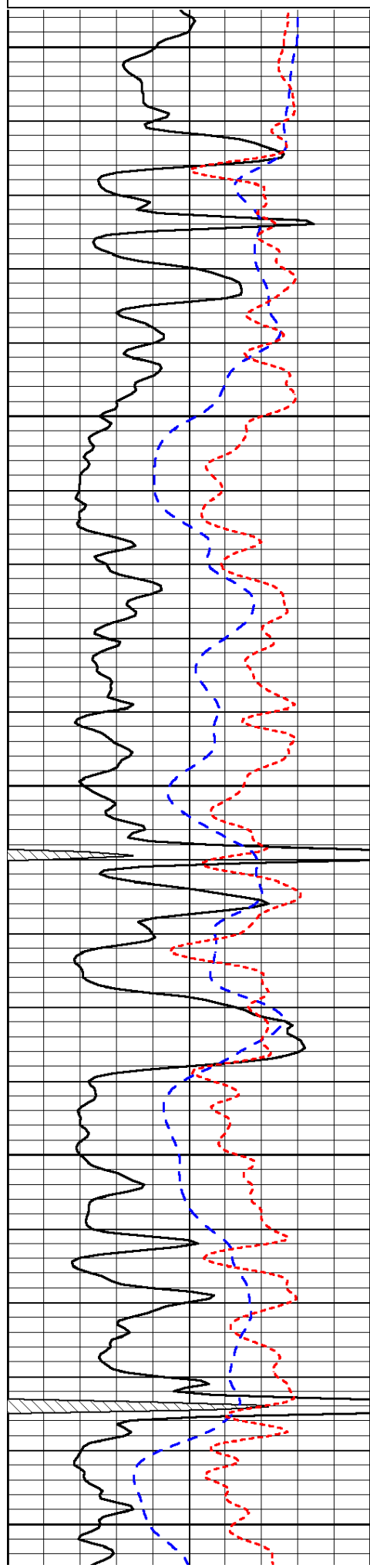
0.2	Deep Resistivity	2000
0.2	Medium Resistivity	2000
0.2	Shallow Resistivity	2000
15000	Line Tension	0

LSPD

Database File: c:\warrior\data\rjm_hammeke #1\rjm_072313hd.db
Dataset Pathname: dil/rjmstk
Presentation Format: dil
Dataset Creation: Wed Jul 24 12:08:35 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



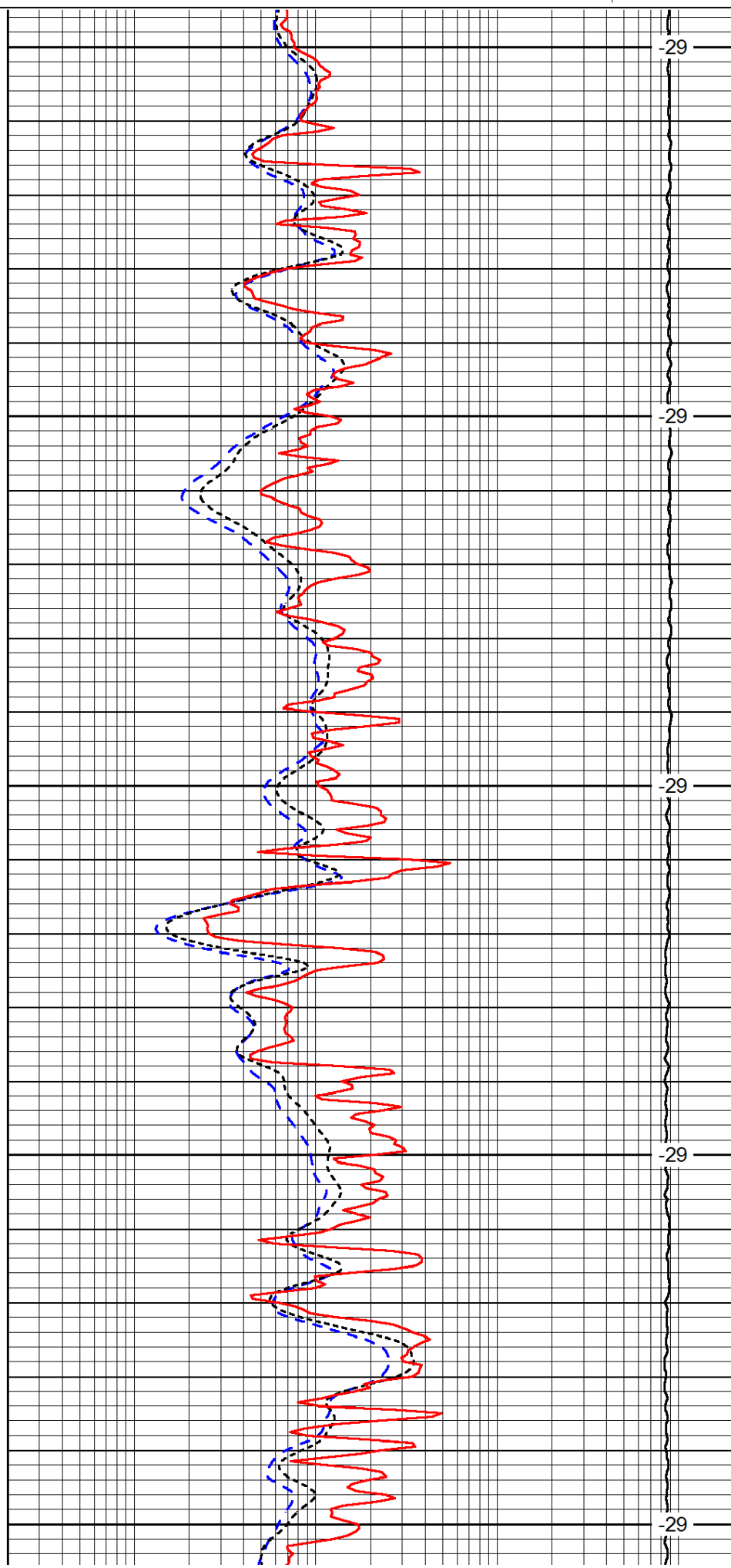
2700

2750

2800

2850

2900



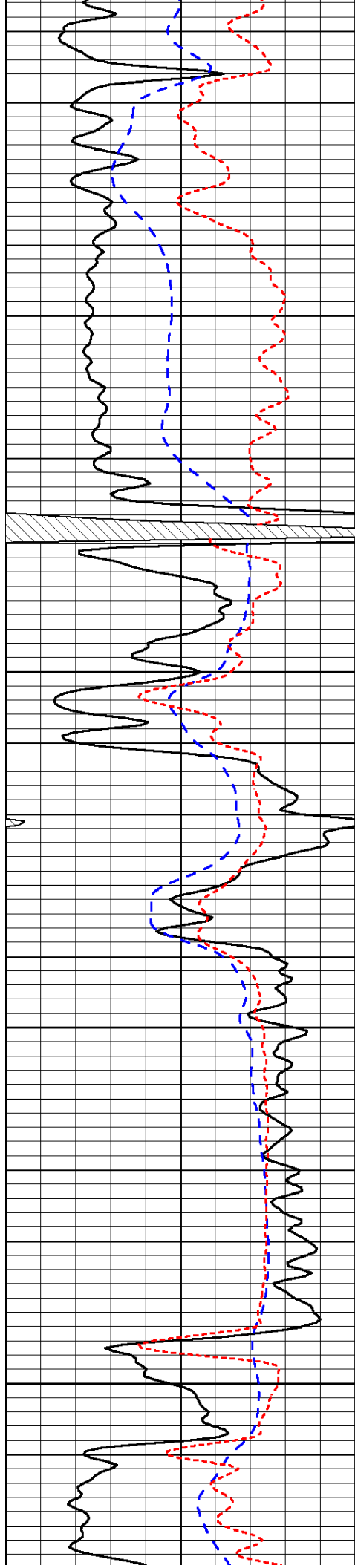
-29

-29

-29

-29

-29

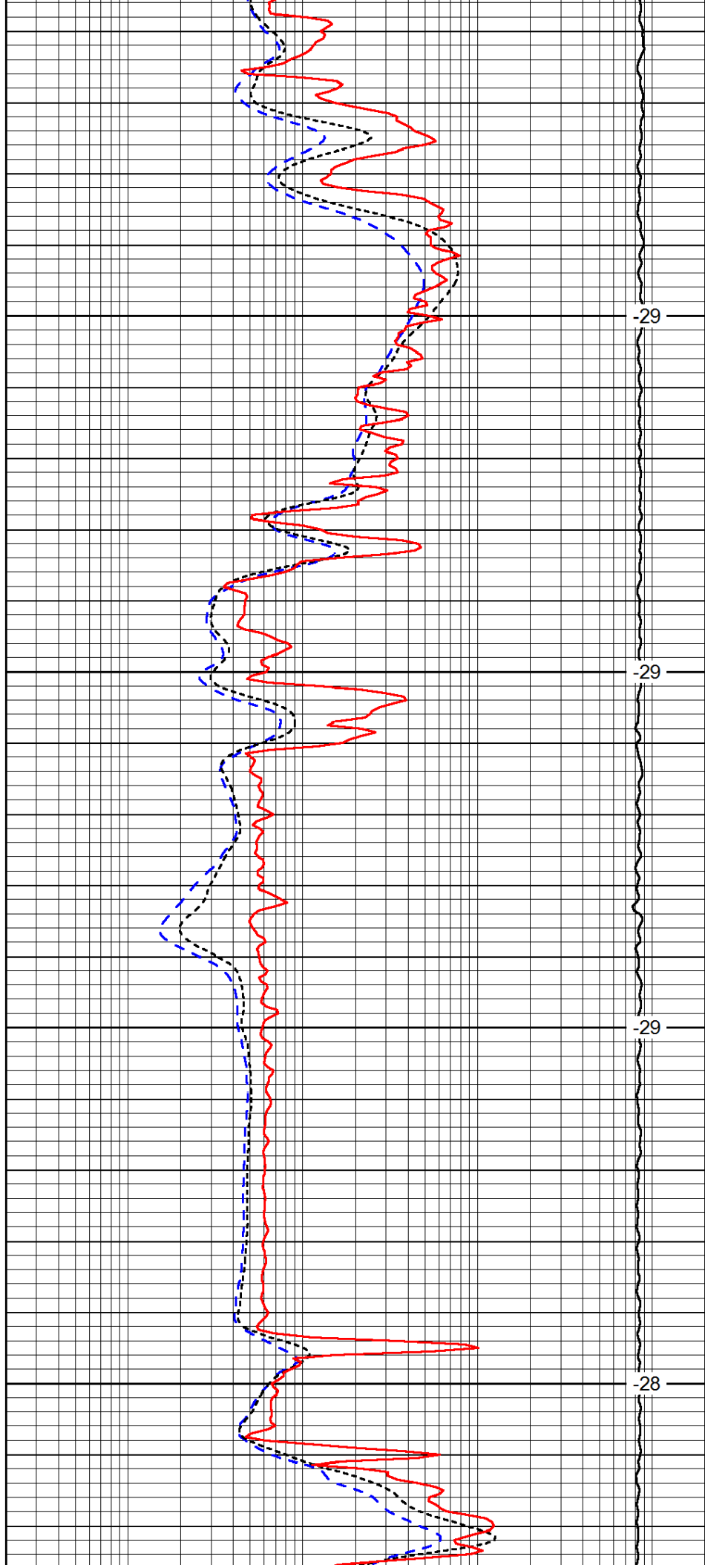


2950

3000

3050

3100

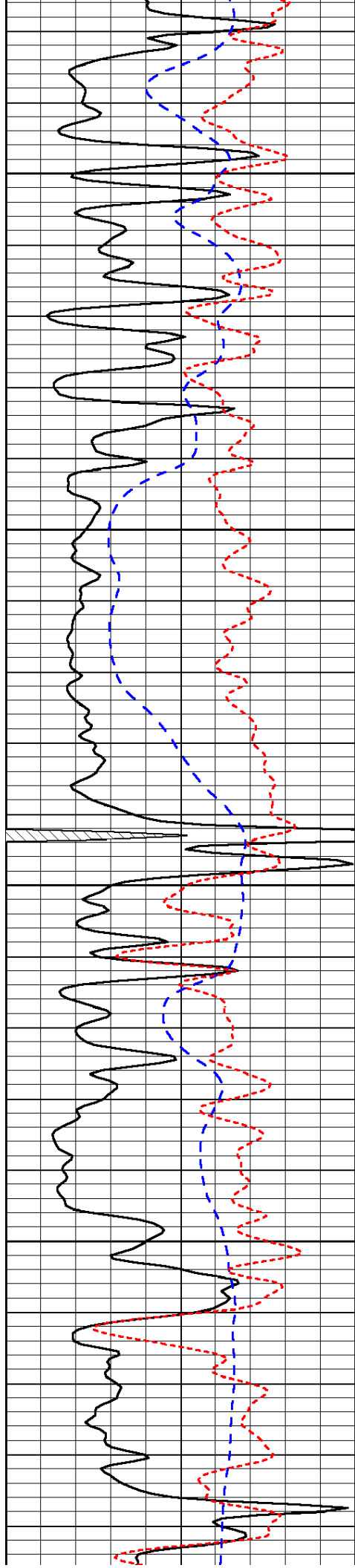


-29

-29

-29

-28

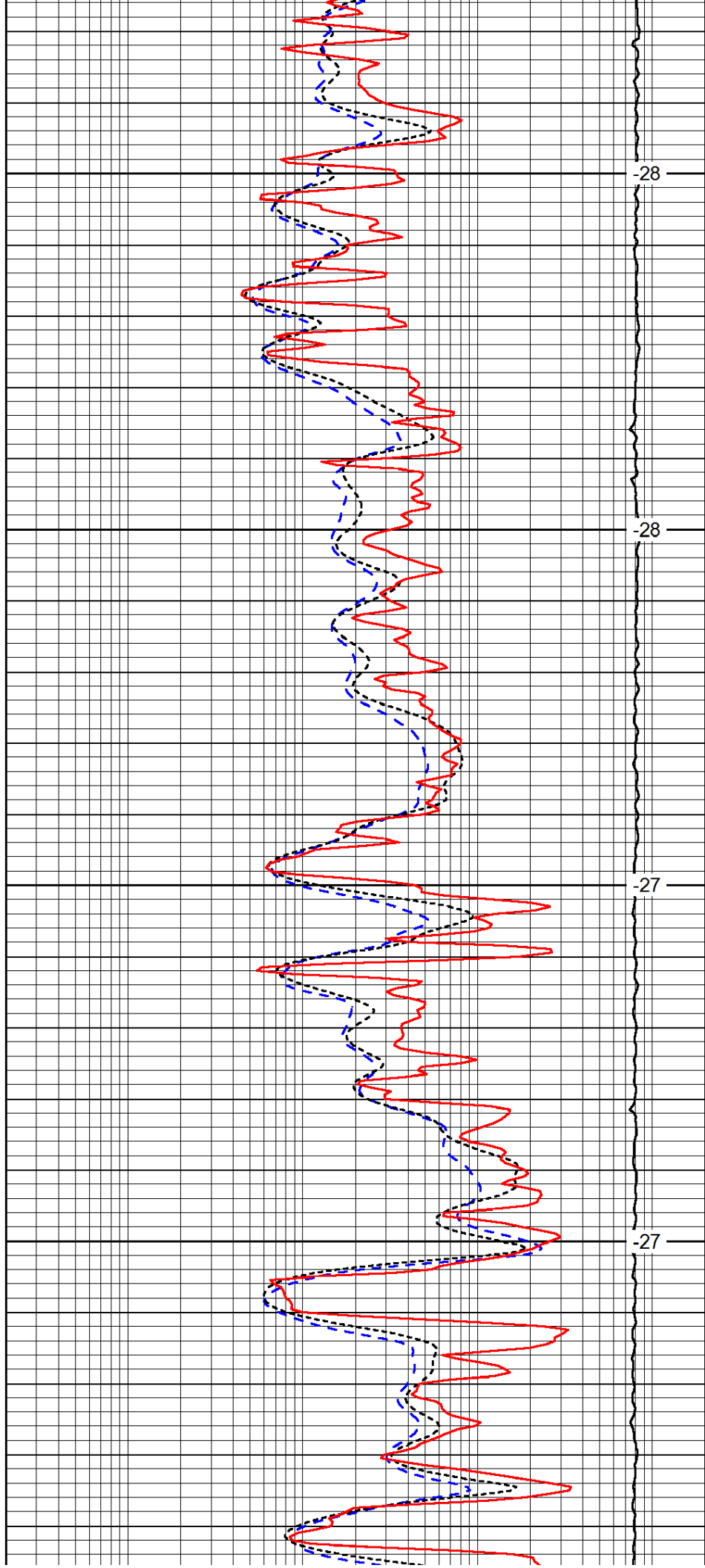


3150

3200

3250

3300

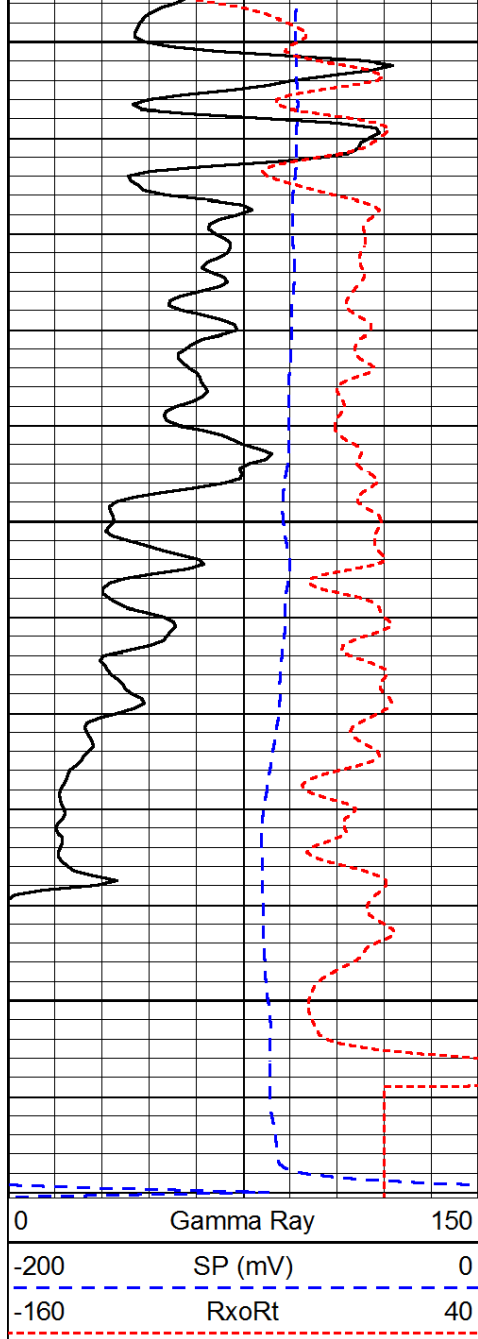


-28

-28

-27

-27

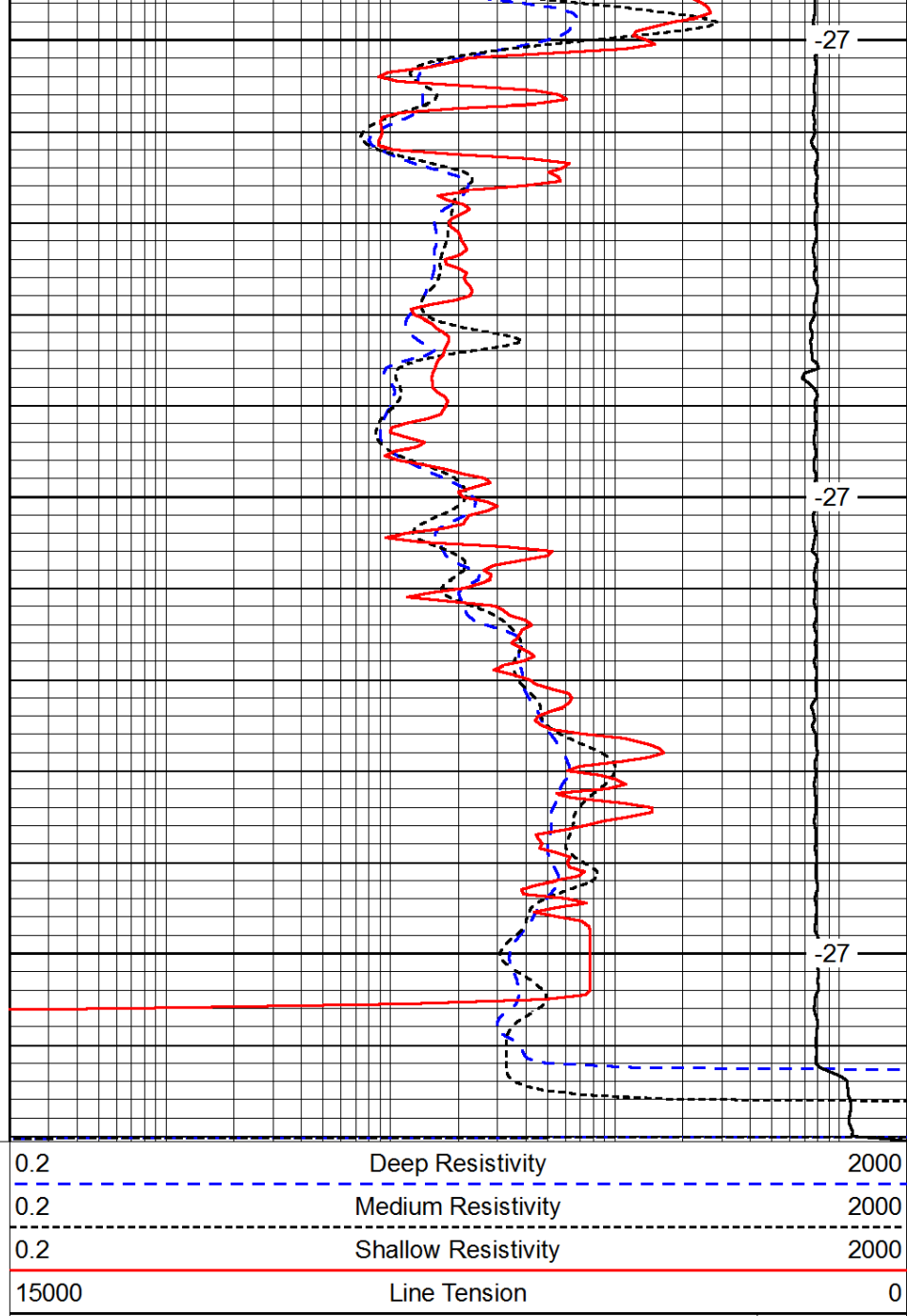


3350

3400

3450

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



-27

-27

-27

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

LSPD