



DIGITAL LOG (785) 625-3858

Dual Induction Log

API No.	15-051-26,315-00-00	
Company	TDL, Inc.	
Well	Bieker No. 2	
Field	Martina East	
County	Ellis	State
Location	W2 NW NE SE 2,310' FSL & 1,265' FEL	
Sec: 24	Twp: 15S	Rge: 19W
Other Services	CNL/CDL MEL	
Permanent Datum	Ground Level	Elevation 1979
Log Measured From	Kelly Bushing	10 Ft. Above Perm. Datum
Drilling Measured From	Kelly Bushing	K.B. 1989 D.F. 1979 G.L. 1979

Date	7/17/2012
Run Number	One
Depth Driller	3750
Depth Logger	3748
Bottom Logged Interval	3747
Top Log Interval	1150
Casing Driller	8.625 @ 1173
Casing Logger	1171
Bit Size	7.875
Type Fluid in Hole	Chemical
Salinity, ppm CL	2000
Density / Viscosity	9.2 57
pH / Fluid Loss	10.5 6.8
Source of Sample	Flowline
Rm @ Meas. Temp	.82 @ 78
Rmf @ Meas. Temp	.62 @ 78
Rmc @ Meas. Temp	1.11 @ 78
Source of Rmf / Rmc	Charts
Rm @ BHT	.56 @ 114
Operating Rig Time	4 Hours
Max Rec. Temp. F	114
Equipment Number	108
Location	Hays
Recorded By	J. Long
Witnessed By	Tom Denning

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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.
(785) 625-3858

Hays, 5 1/3 South to Antonino Road, 3 West, 3 1/2 South, West Into

Database File: tdi_bieker_2hd.db
 Dataset Pathname: dil/tdistck
 Presentation Format: dil2in
 Dataset Creation: Tue Jul 17 14:25:06 2012
 Charted by: Depth in Feet scaled 1:600

0	Gamma Ray	150
-200	SP	0

0	Shallow Resistivity	50
0	Deep Resistivity	50

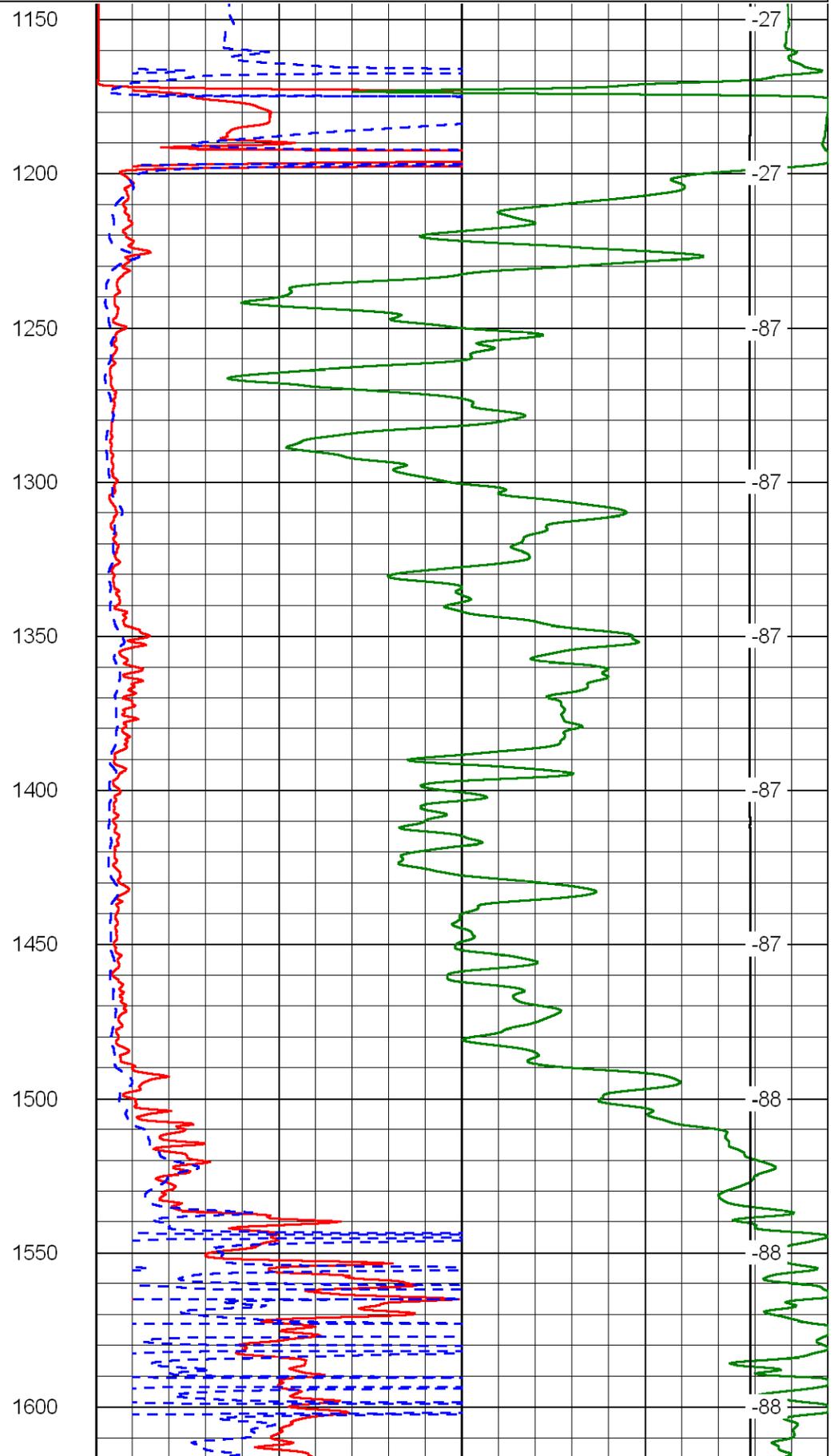
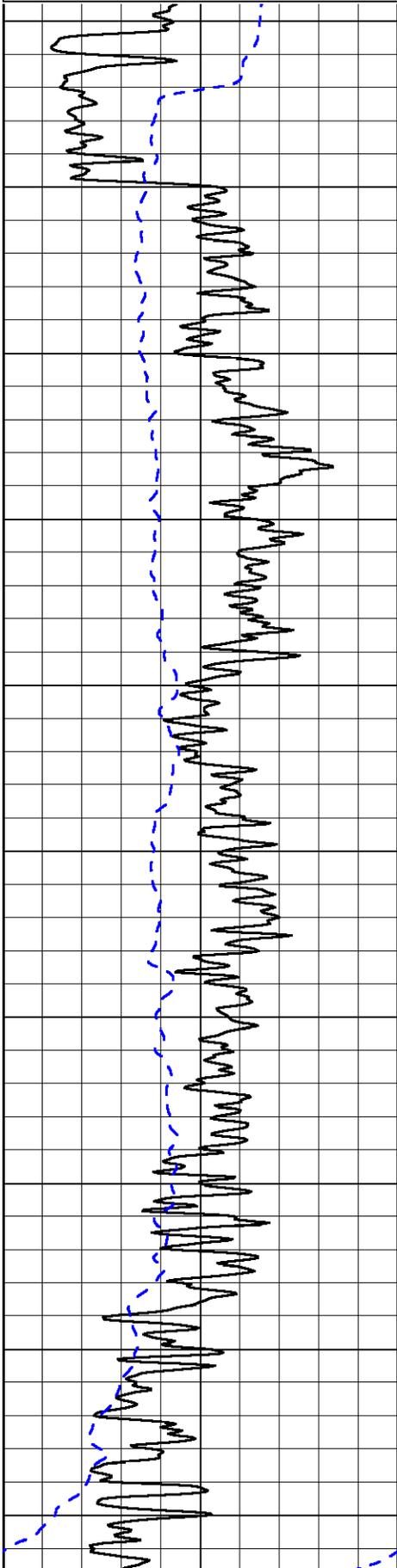
LSPD

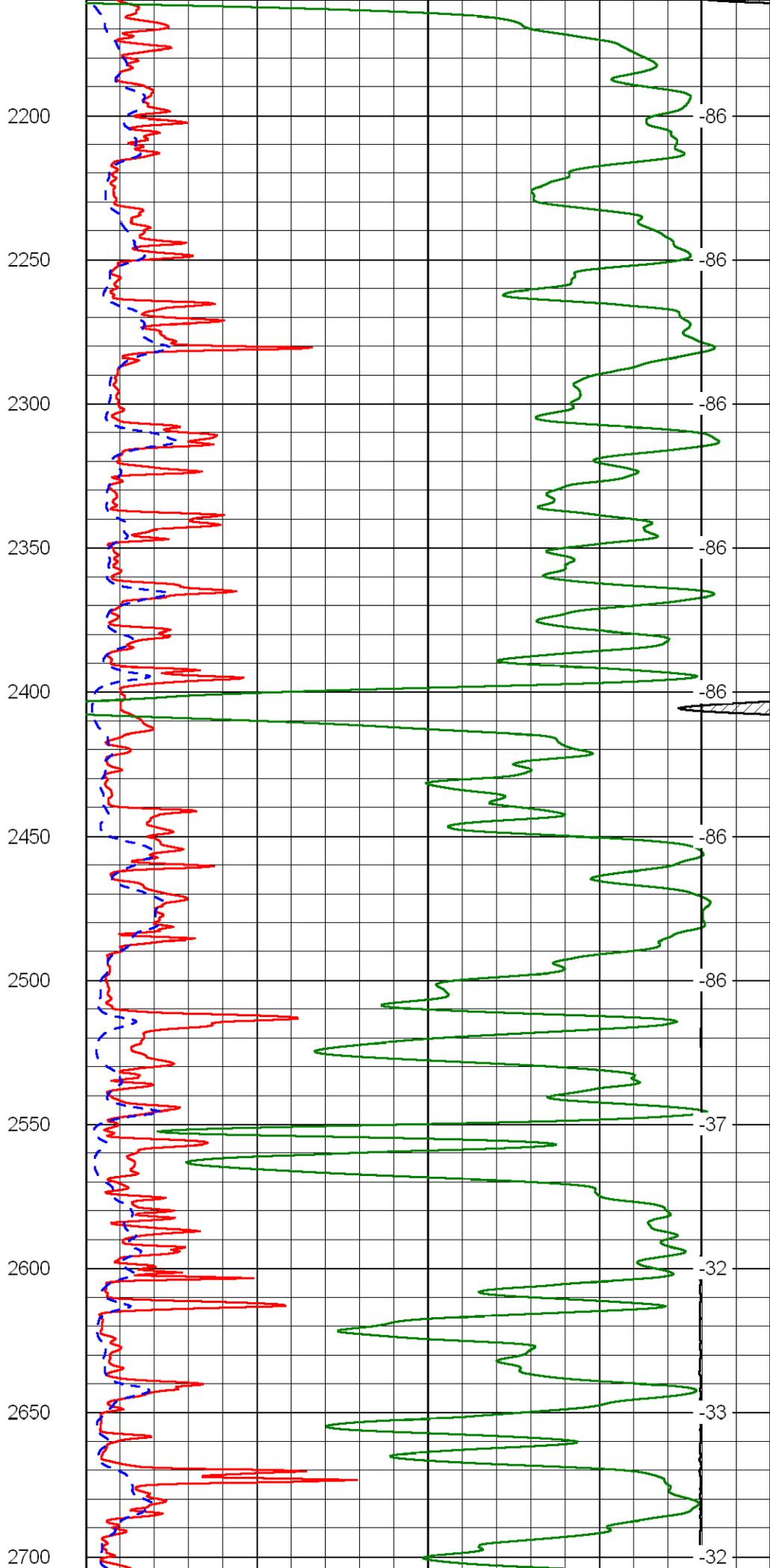
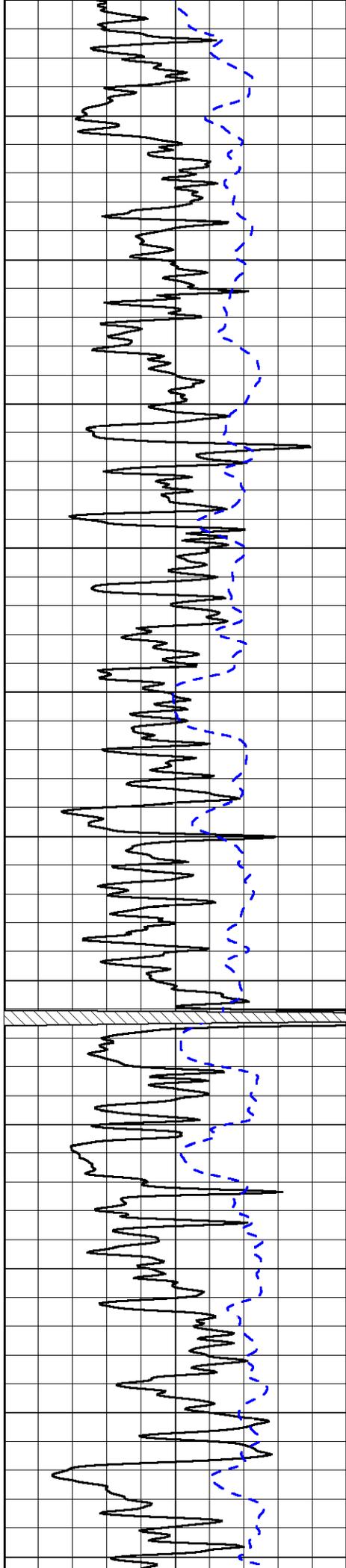
1000	Conductivity	0
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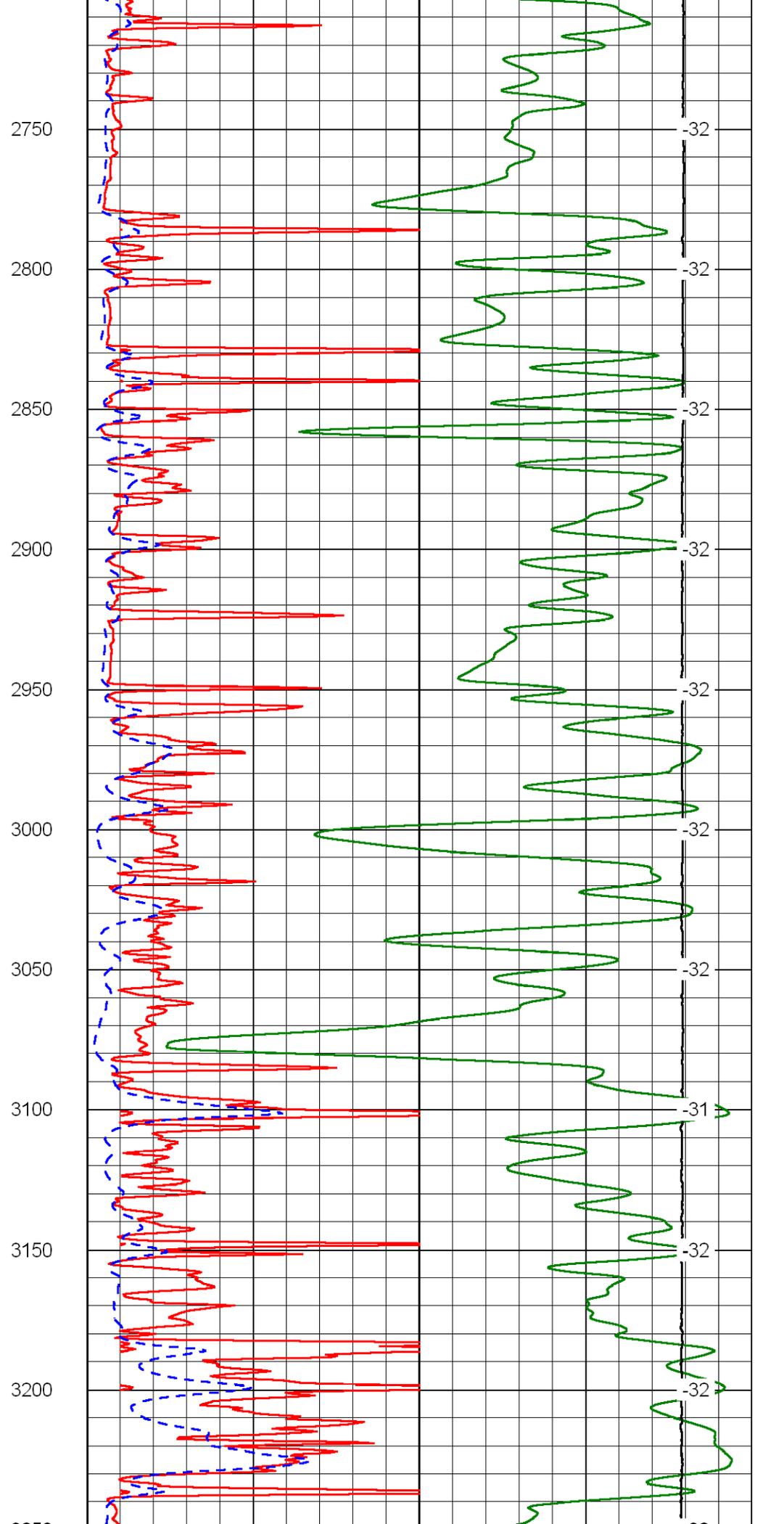
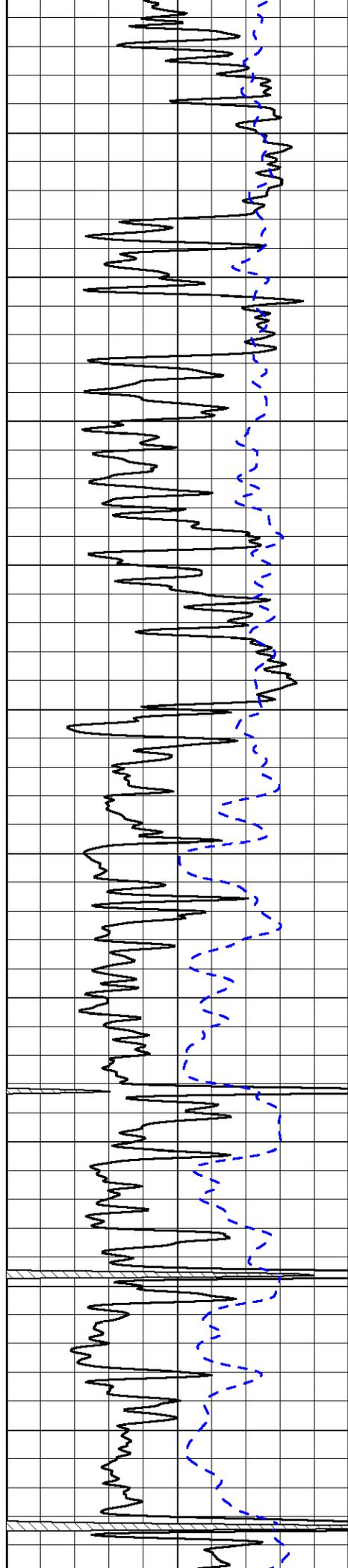
15000	Line Tension	0
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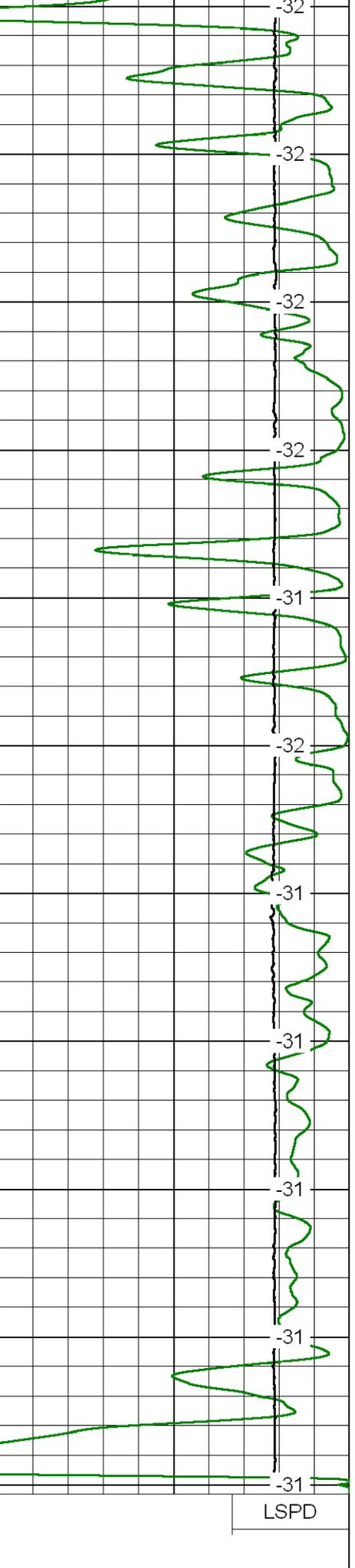
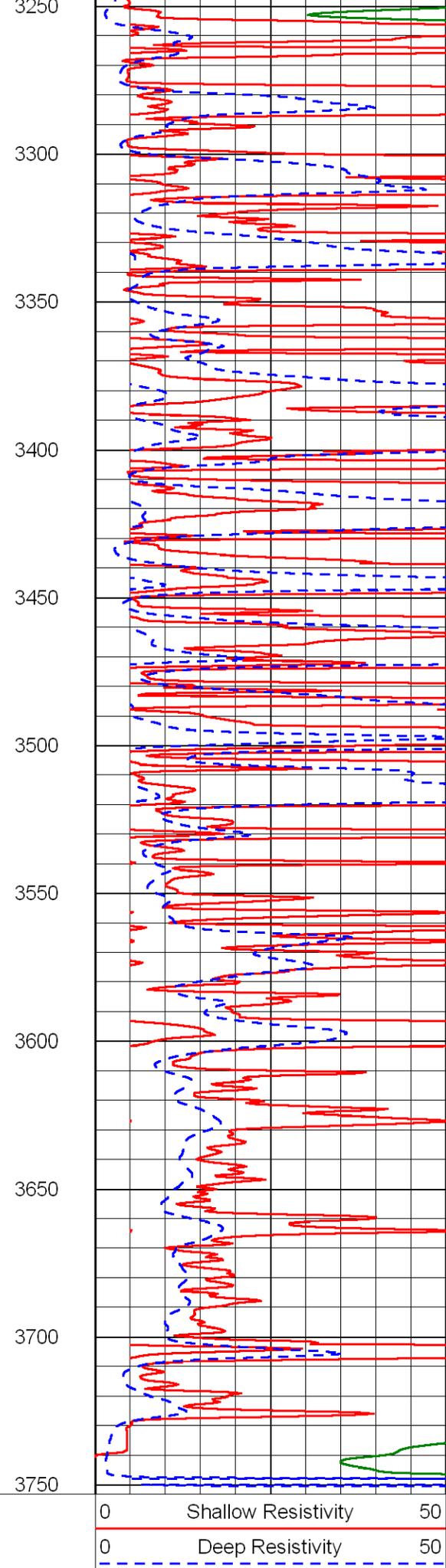
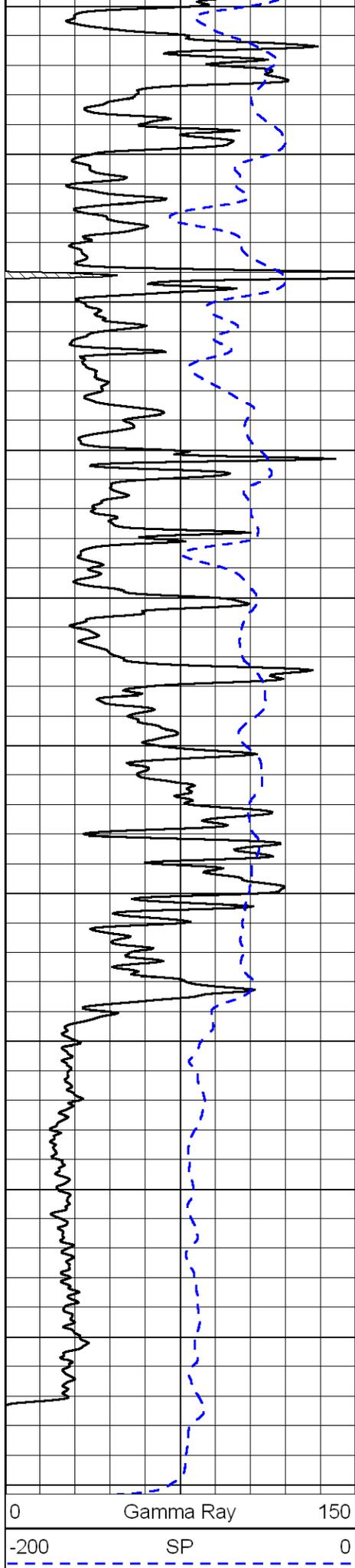
50	Shallow Resistivity	500
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50	Deep Resistivity	500
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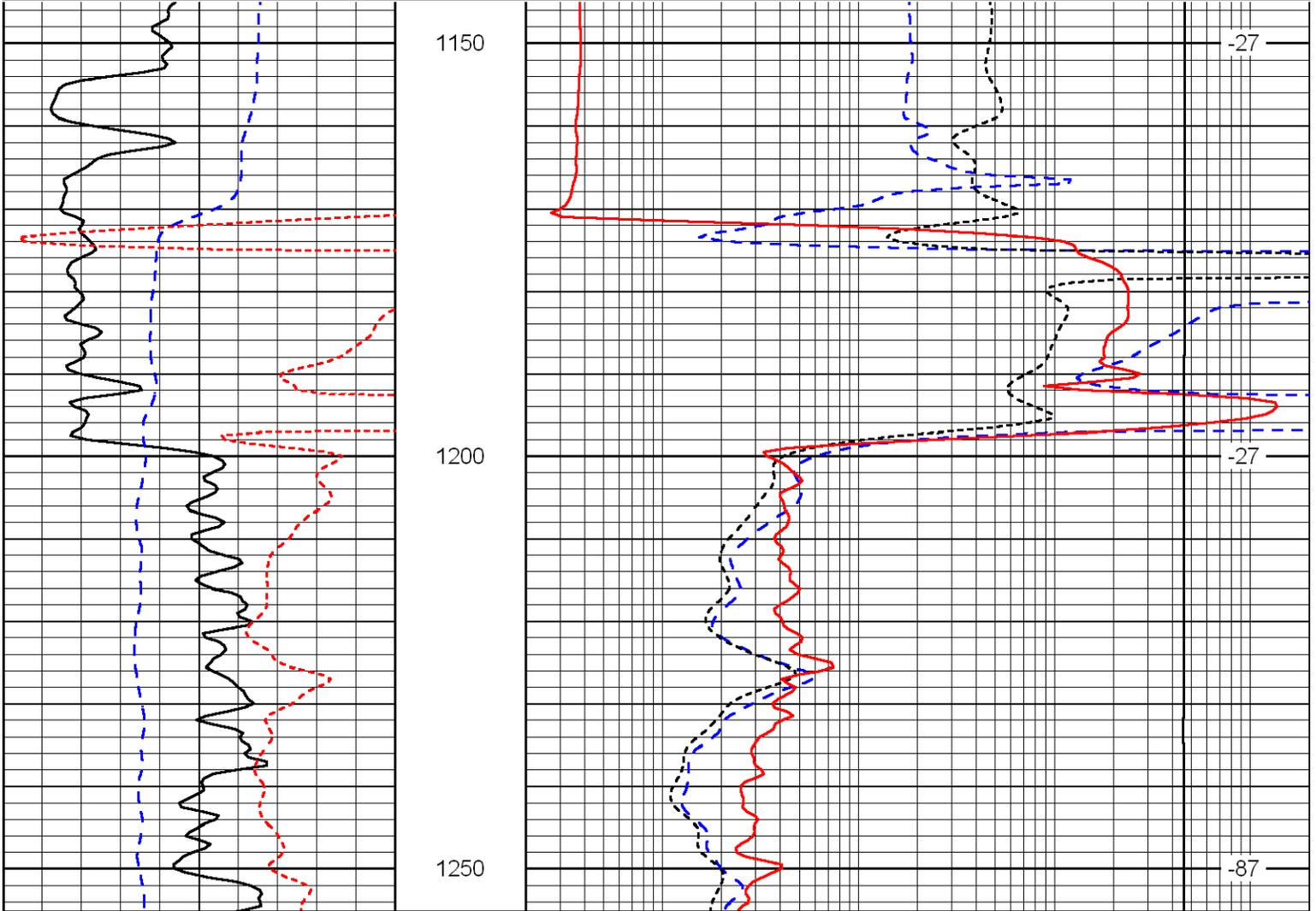




15000	Line Tension	0
50	Shallow Resistivity	500
50	Deep Resistivity	500

Database File: tdi_bieker_2hd.db
 Dataset Pathname: dil/tdistck
 Presentation Format: dil
 Dataset Creation: Tue Jul 17 14:25:06 2012
 Charted by: Depth in Feet scaled 1:240

0	Gamma Ray	150	0.2	Deep Resistivity	2000		
-160	RXO/RT	40	0.2	Medium Resistivity	2000		
-200	SP	0	0.2	Shallow Resistivity	2000		
					10000	Line Tension	0
							LSPD



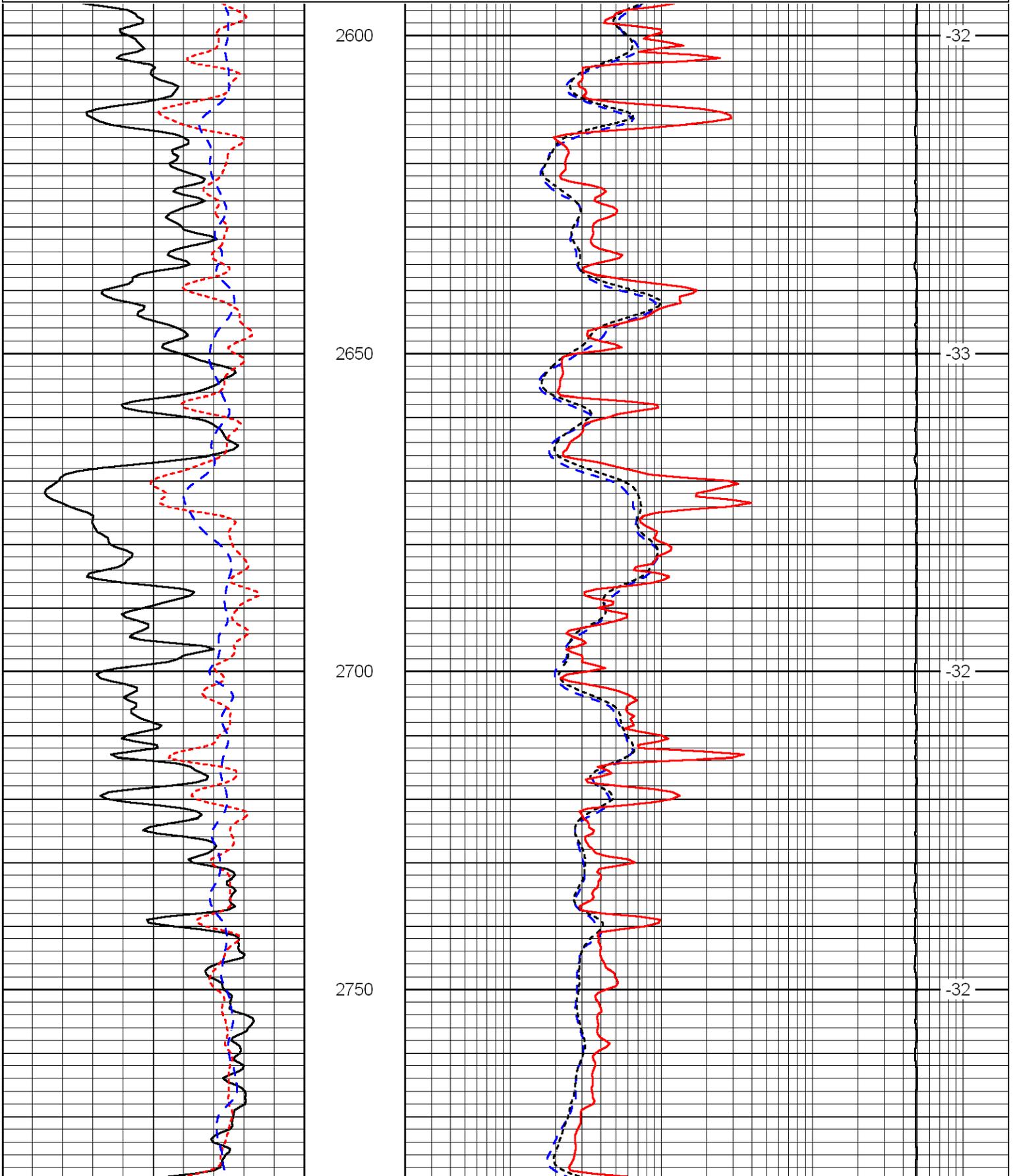
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-160	RXO/RT	40	0.2	Medium Resistivity	2000		
-200	SP	0	0.2	Shallow Resistivity	2000		
					10000	Line Tension	0
							LSPD

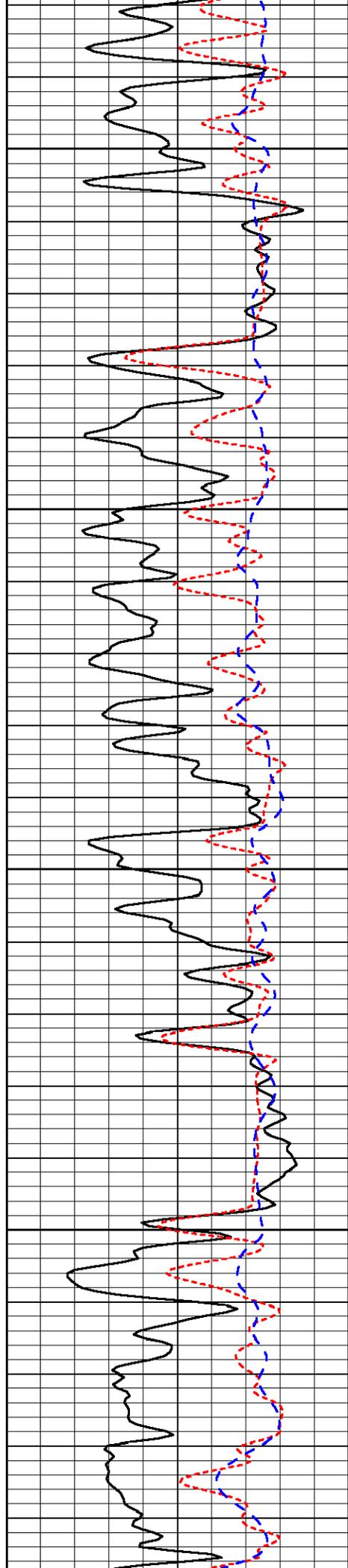
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 Presentation Format: dil

0	Gamma Ray	150
-160	RXO/RT	40
-200	SP	0

0.2	Deep Resistivity	2000
0.2	Medium Resistivity	2000
0.2	Shallow Resistivity	2000
10000	Line Tension	0

LSPD



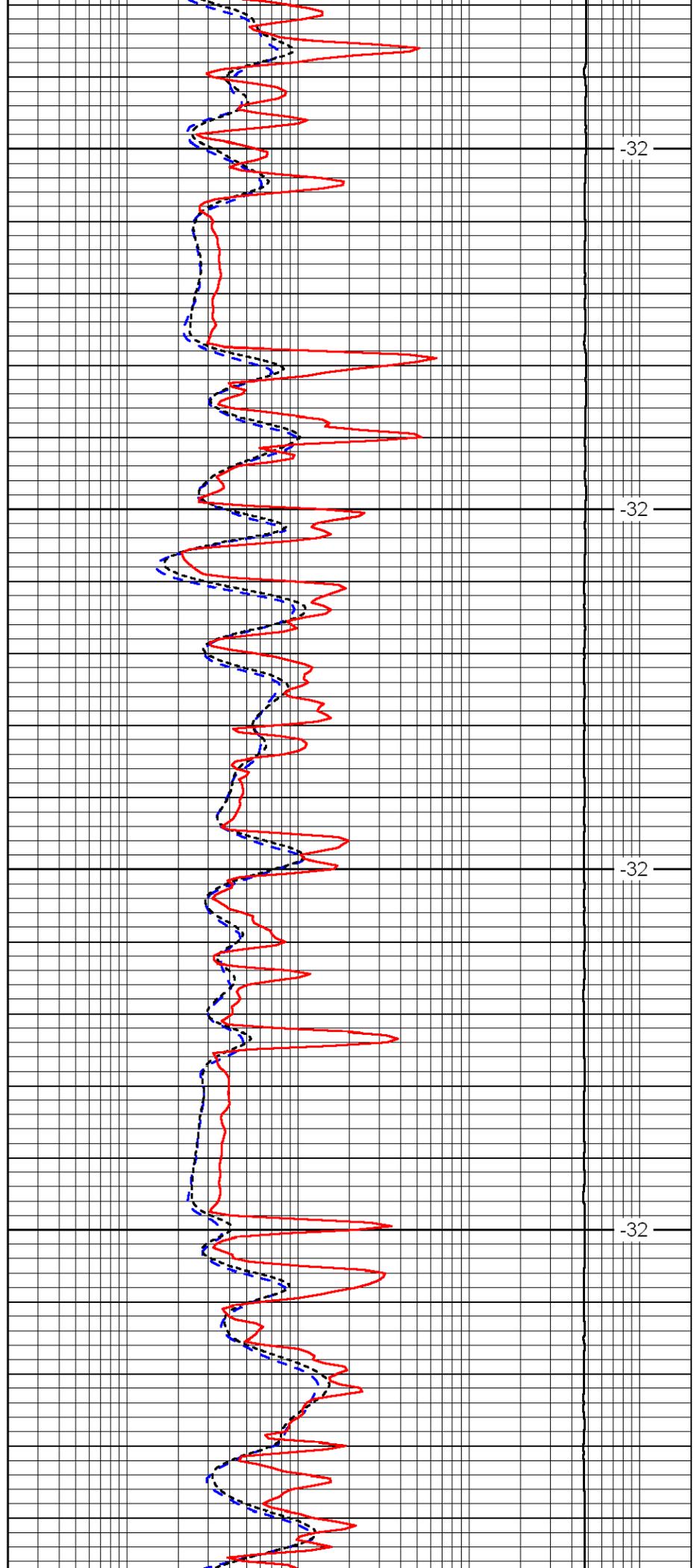


2800

2850

2900

2950

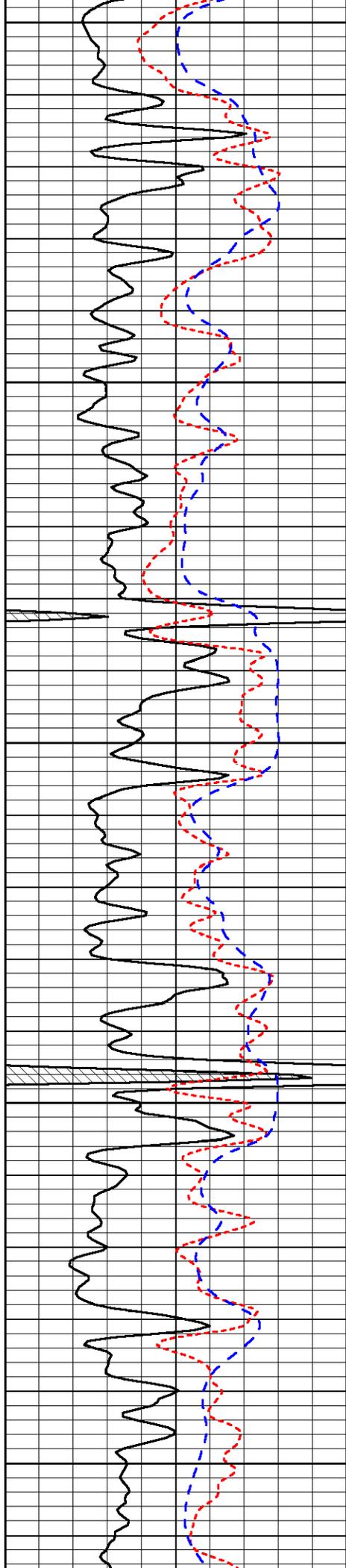


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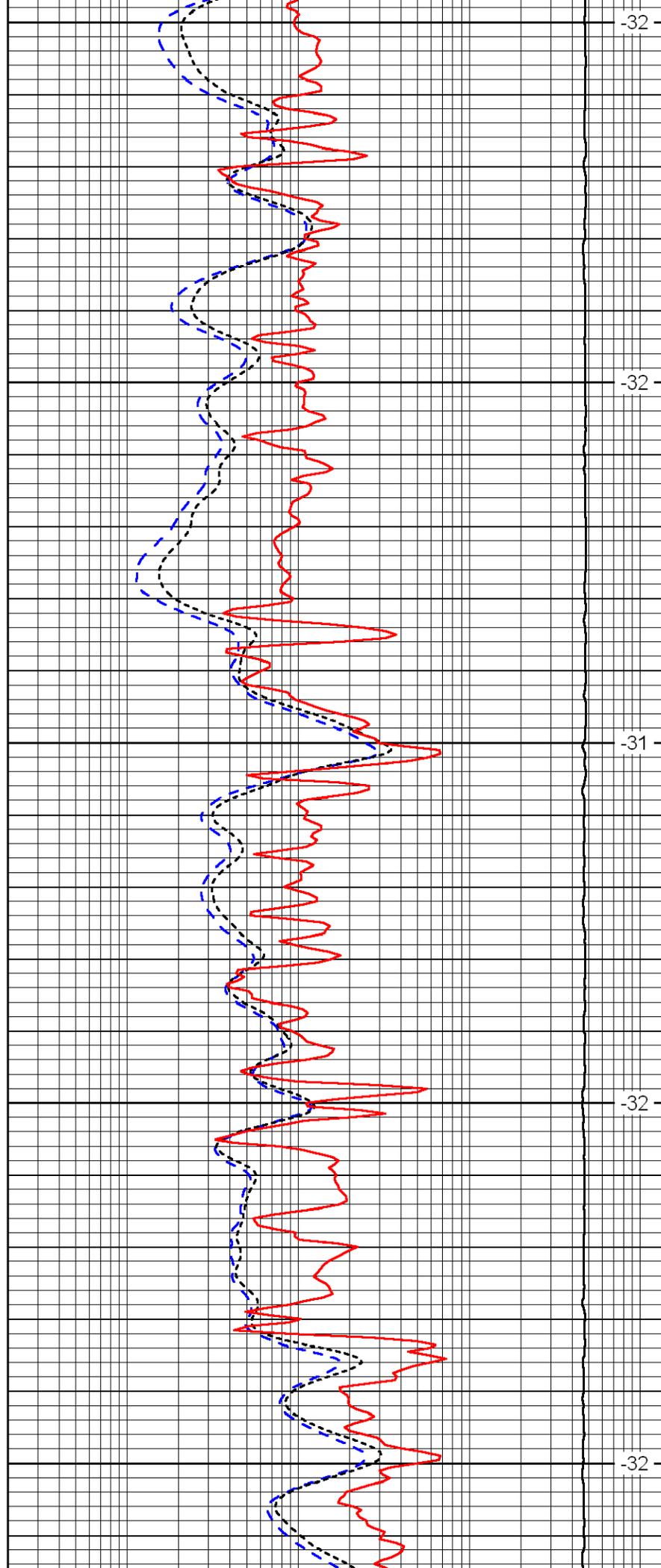
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3050

3100

3150

3200



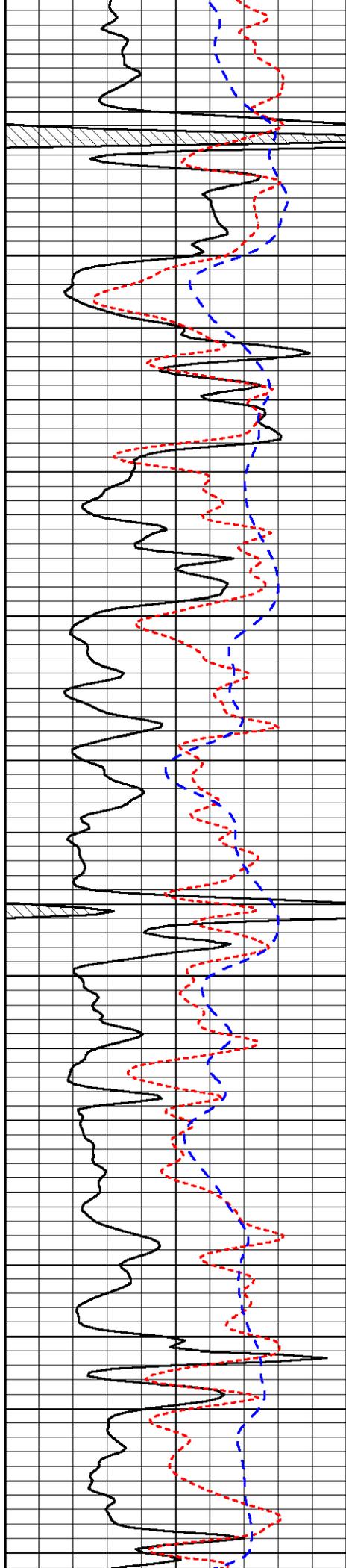
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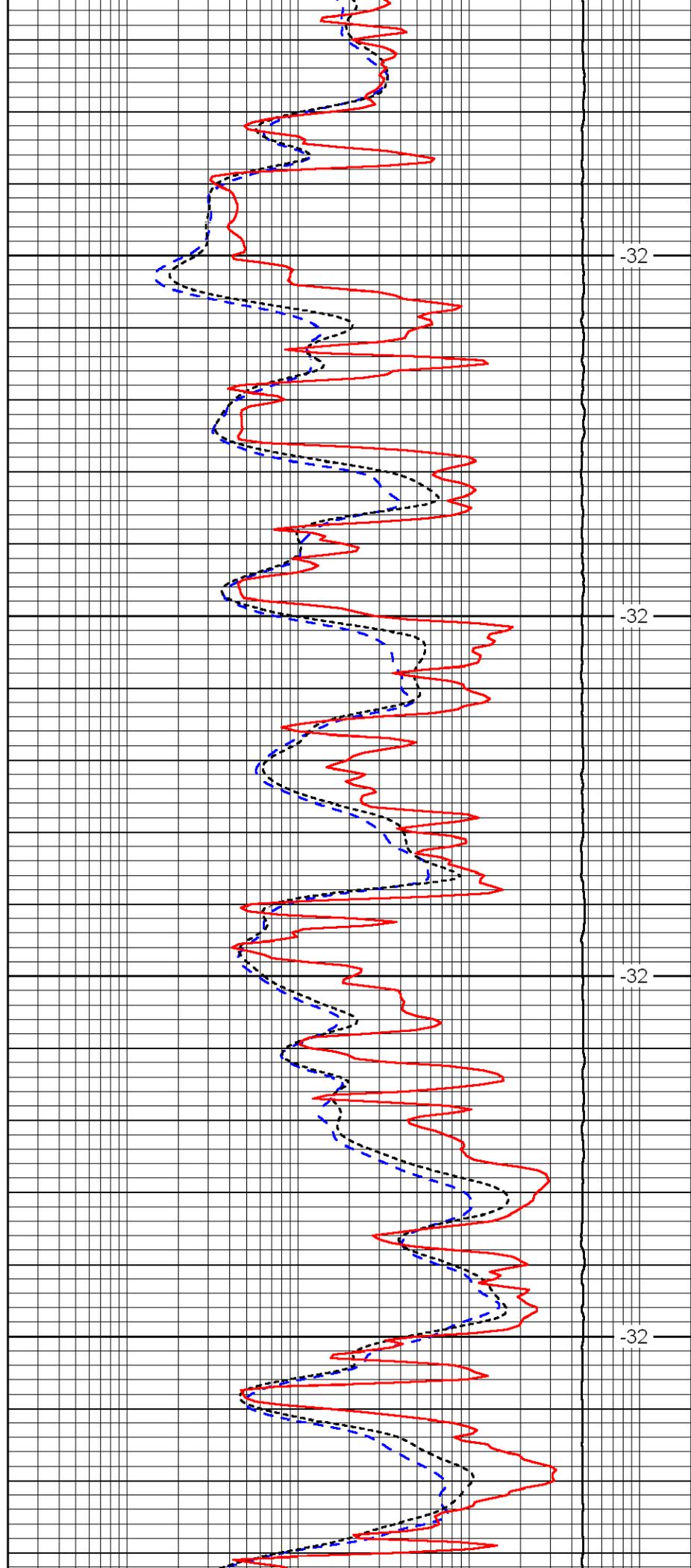


3250

3300

3350

3400

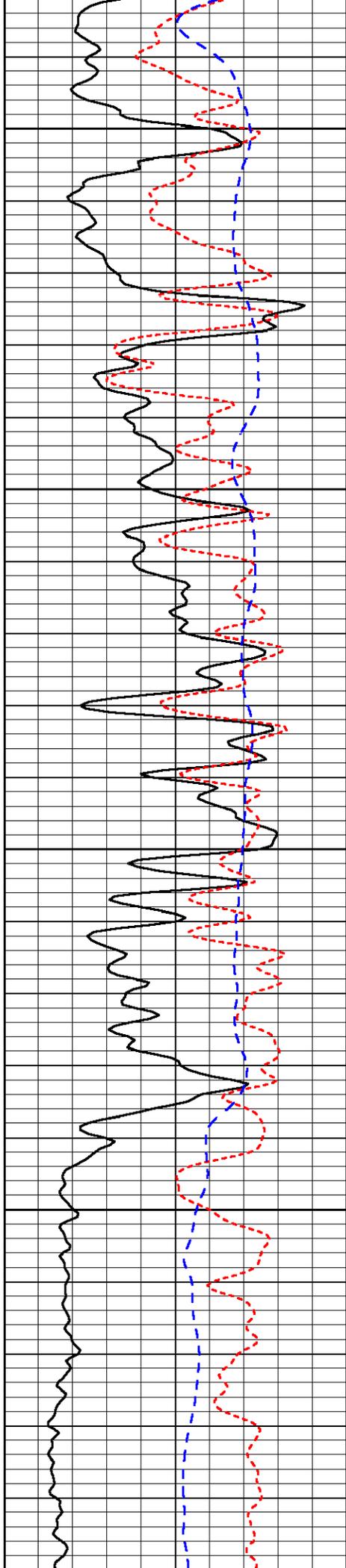


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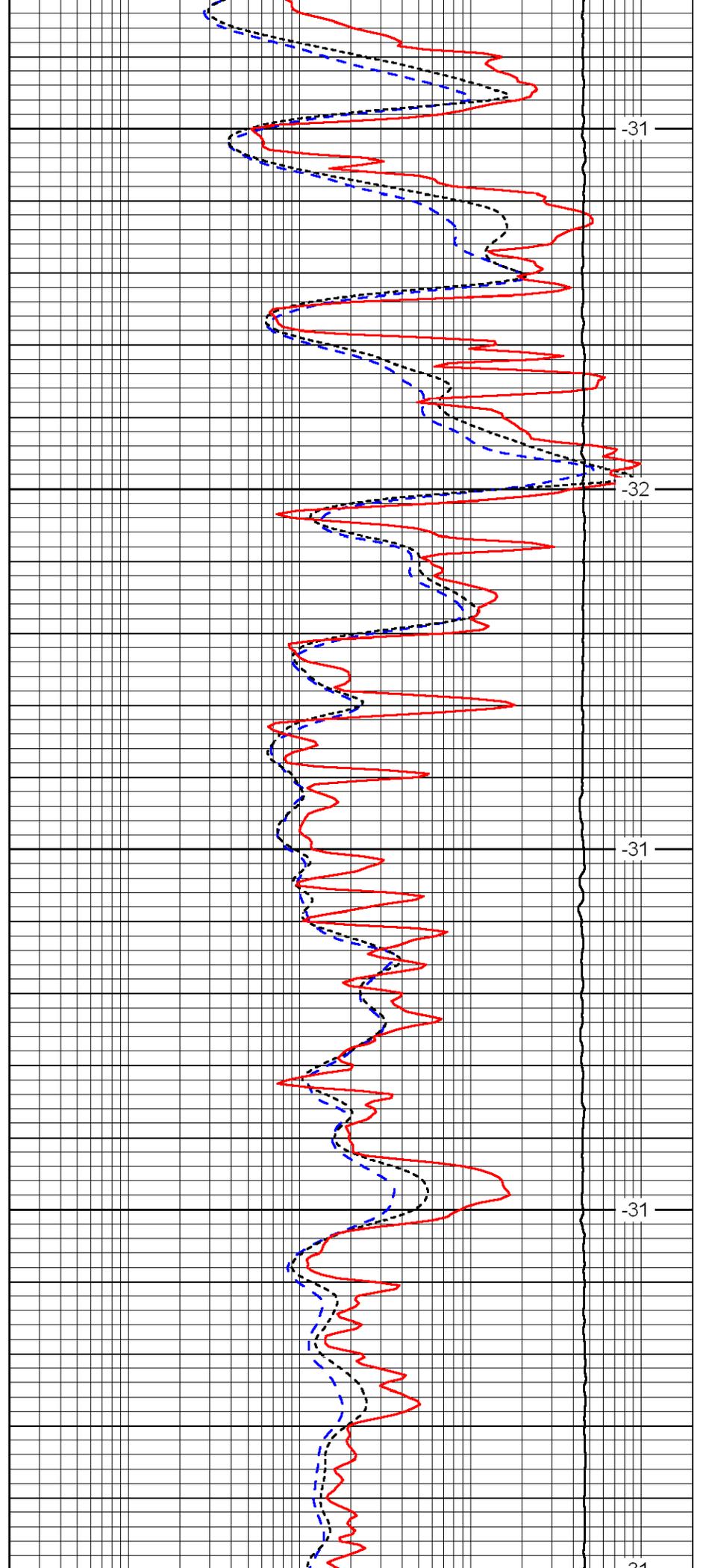
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3500

3550

3600

3650



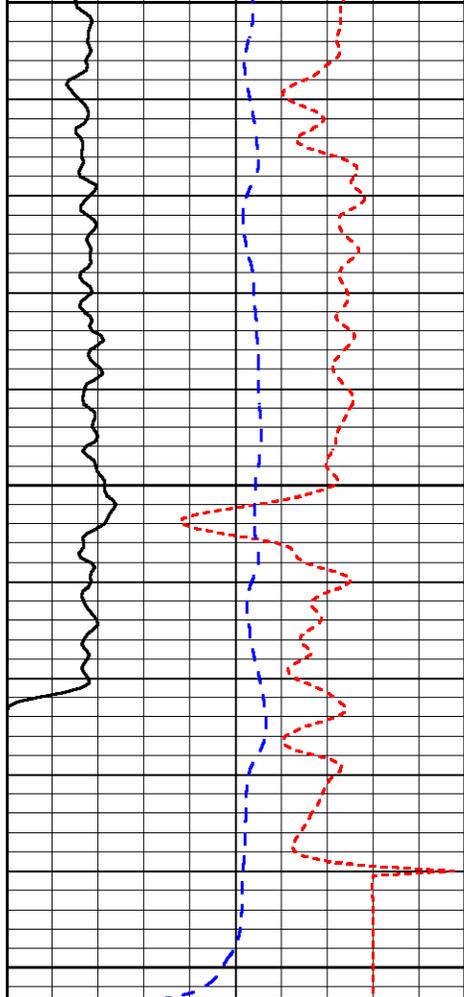
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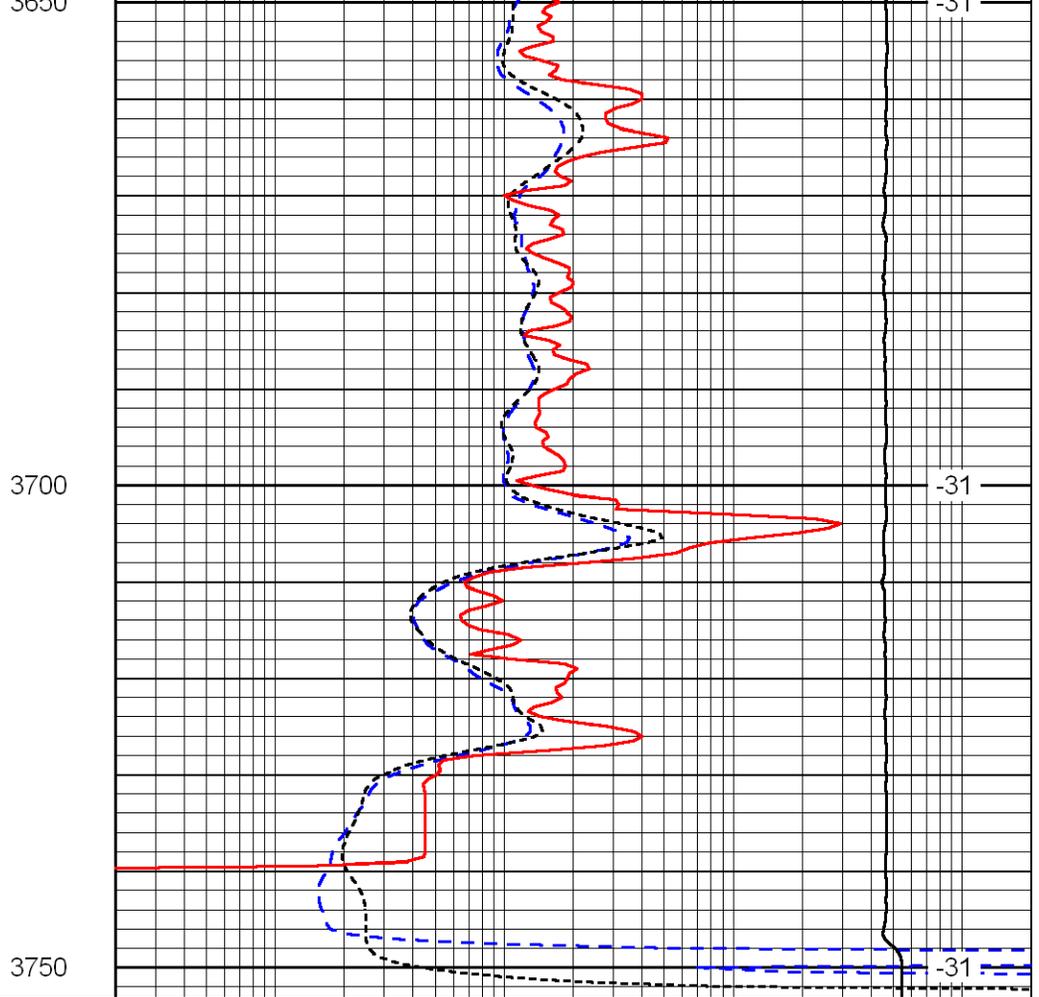
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-160	RXO/RT	40
-200	SP	0



0.2	Deep Resistivity	2000
0.2	Medium Resistivity	2000
0.2	Shallow Resistivity	2000
10000	Line Tension	0

LSPD