



Dual Induction Log

DIGITAL LOG (785) 625-3858

API No.	15-051-26,172-00-00		
Company	TDL, Inc.		
Well	Willard No. 1		
Field	Schoenchen		
County	Ellis	State	Kansas
Location	480' FNL & 2190 FEL		
Sec: 22	Twp: 15 S	Rge: 18 W	Elevation CNL/CDL MEL
Permanent Datum	Ground Level	Elevation 2028	K.B. 2038
Log Measured From	Kelly Bushing	10 Ft. Above Perm. Datum	D.F. 2028
Drilling Measured From	Kelly Bushing		G.L. 2028

Date	9/4/2011
Run Number	One
Depth Driller	3745
Depth Logger	3744
Bottom Logged Interval	3743
Top Log Interval	200
Casing Driller	8.625 @ 224
Casing Logger	225
Bit Size	7.875
Type Fluid in Hole	Chemical
Salinity, ppm CL	2900
Density / Viscosity	9.1 58
pH / Fluid Loss	10.5 6.8
Source of Sample	Flowline
Rm @ Meas. Temp	.75 @ 80
Rmf @ Meas. Temp	.56 @ 80
Rmc @ Meas. Temp	1.01 @ 80
Source of Rmf / Rmc	Charts
Rm @ BHT	.53 @ 113
Operating Rig Time	4 1/2 Hours
Max Rec. Temp. F	113
Equipment Number	17
Location	Hays
Recorded By	D.Kerr
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

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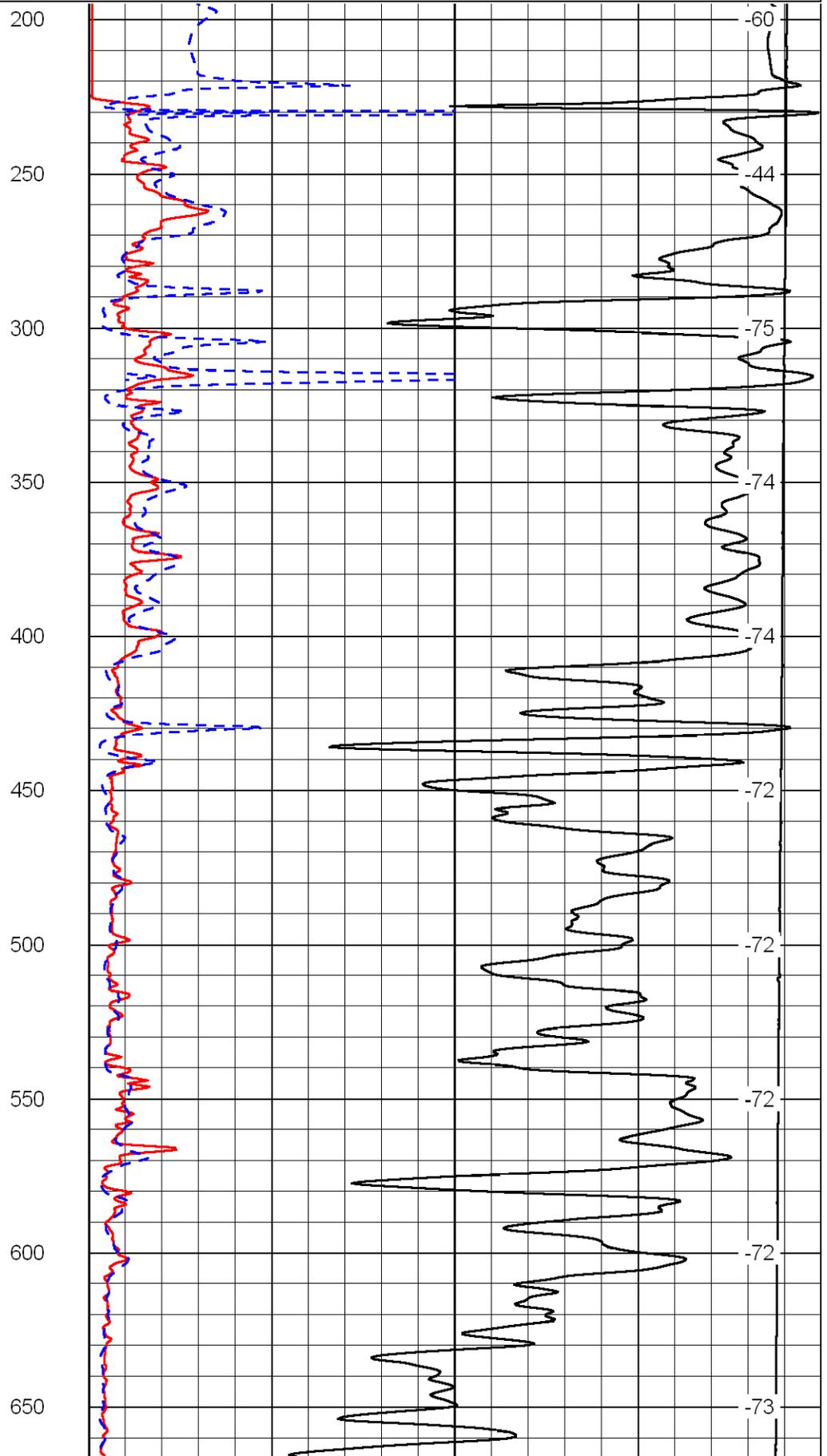
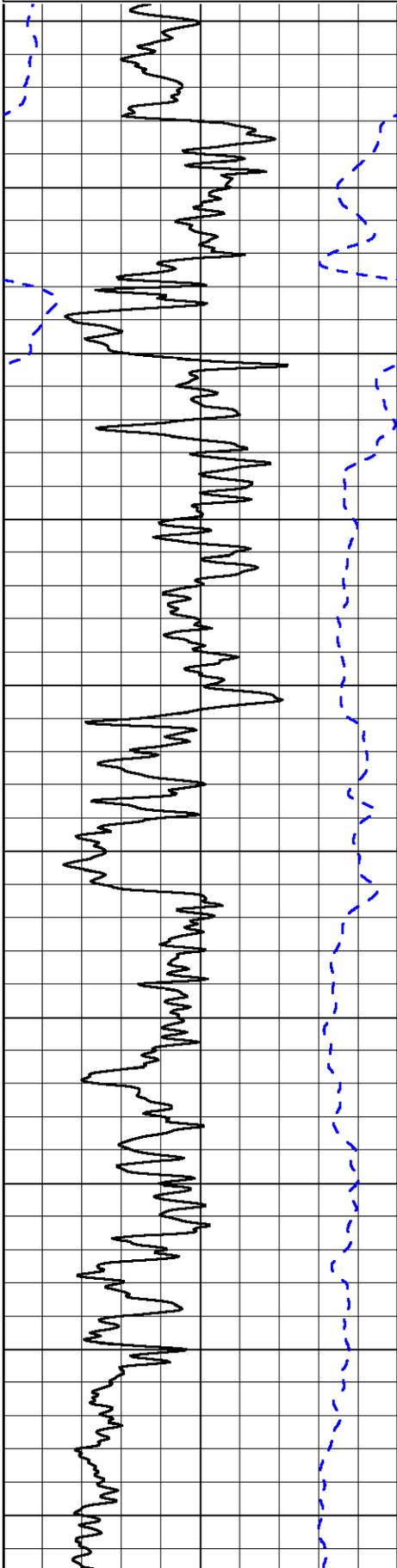
Hays KS, South to Hays Mack,
 1/2 East, South Into

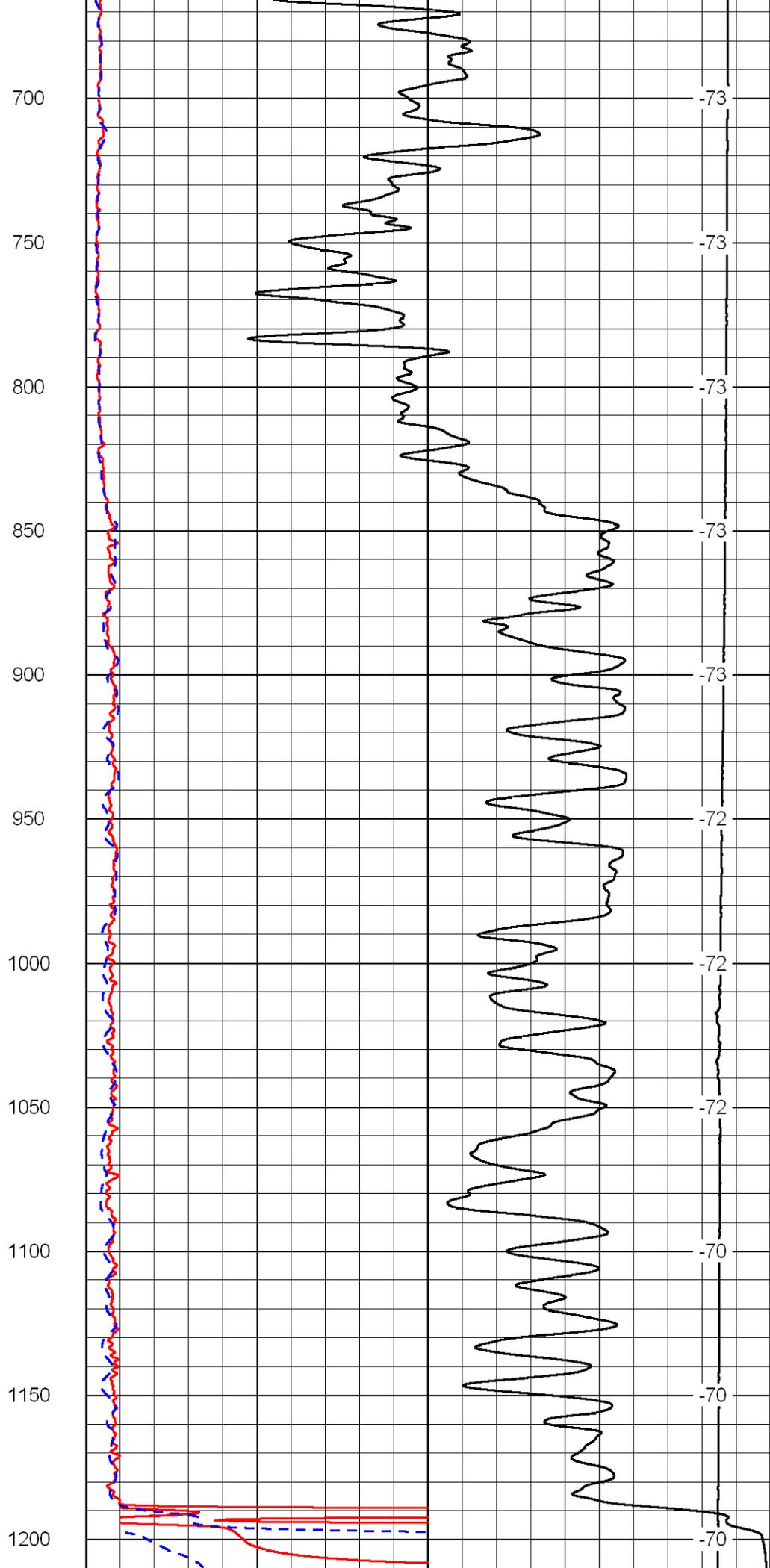
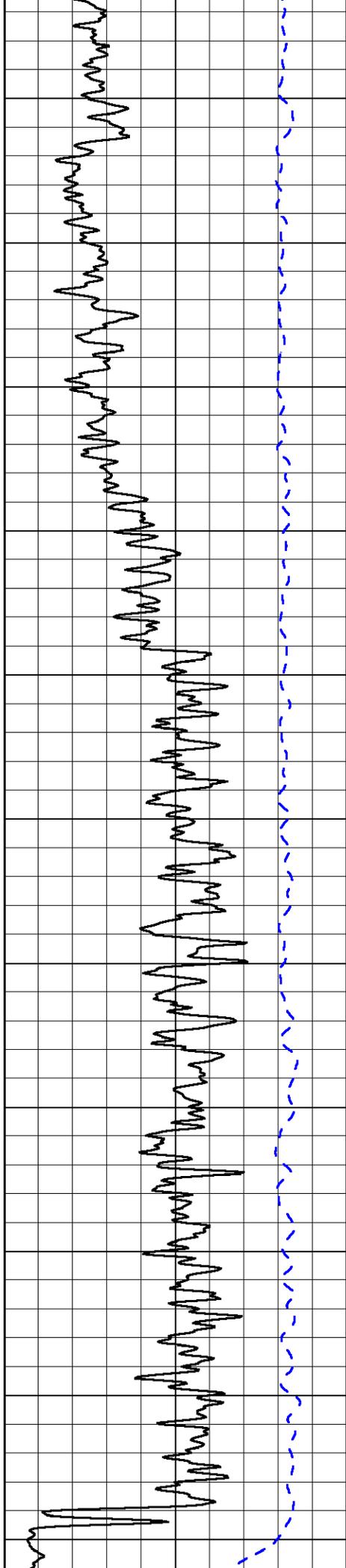
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 Presentation Format: dil2in
 Dataset Creation: Sun Sep 04 23:54:45 2011
 Charted by: Depth in Feet scaled 1:600

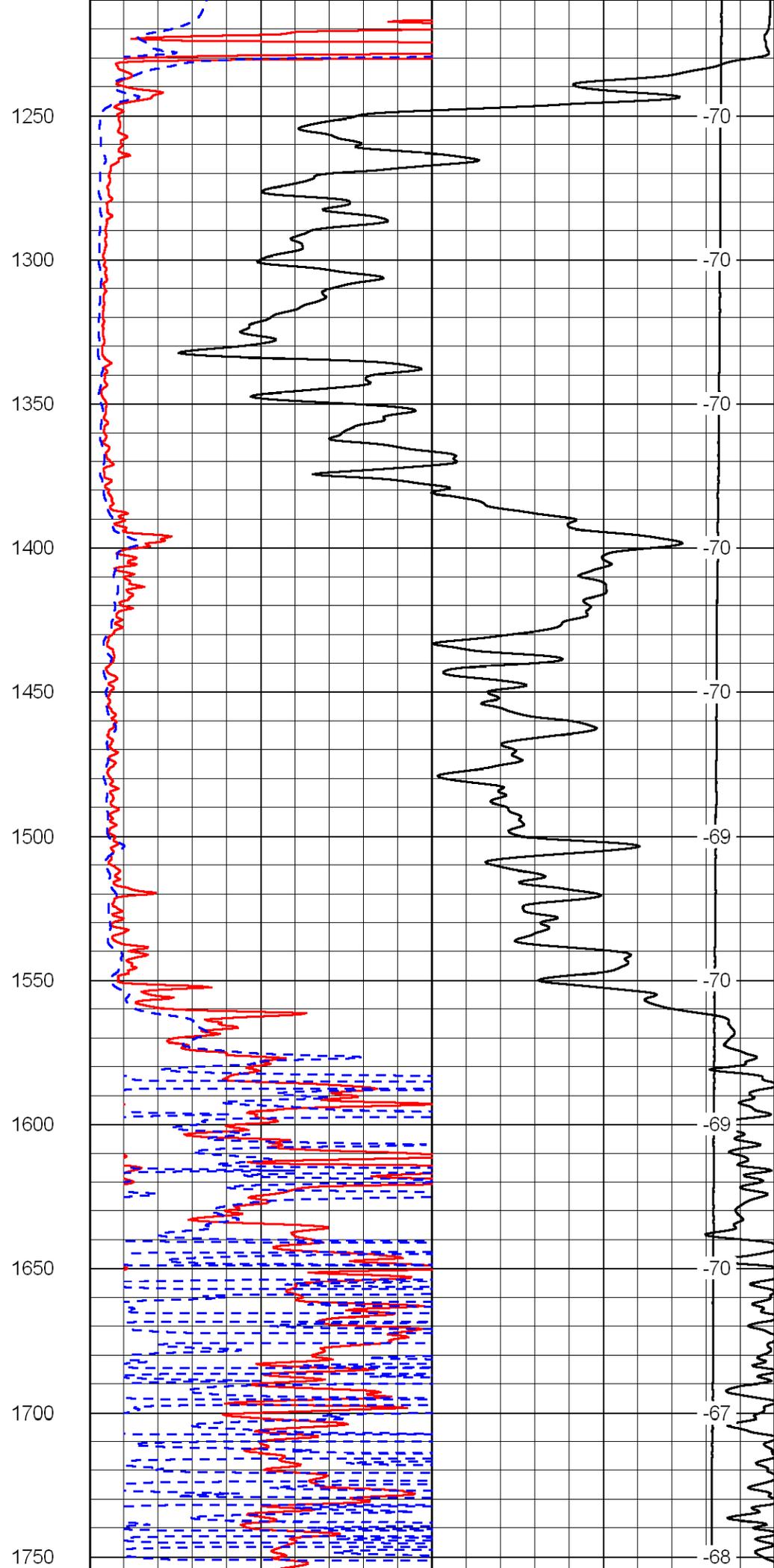
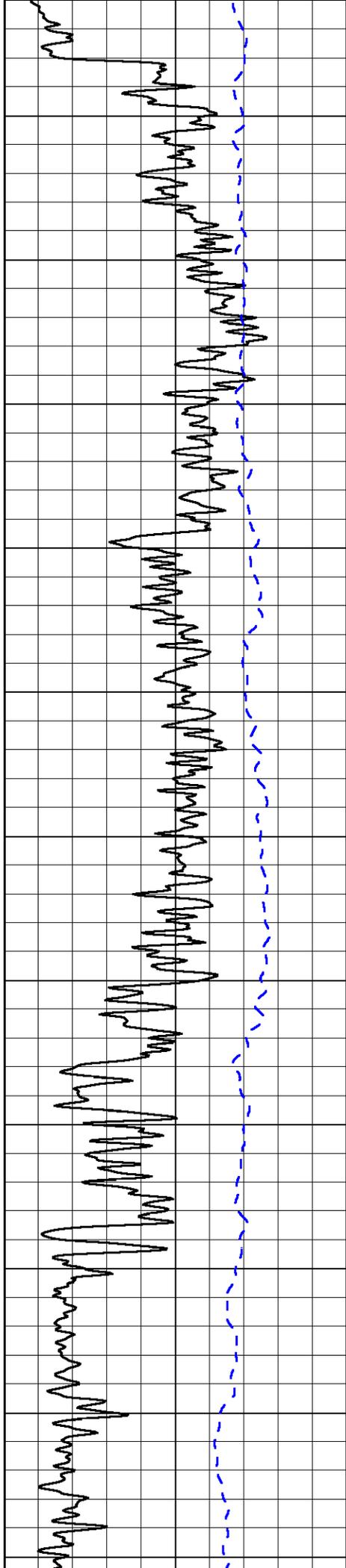
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-200 SP 0

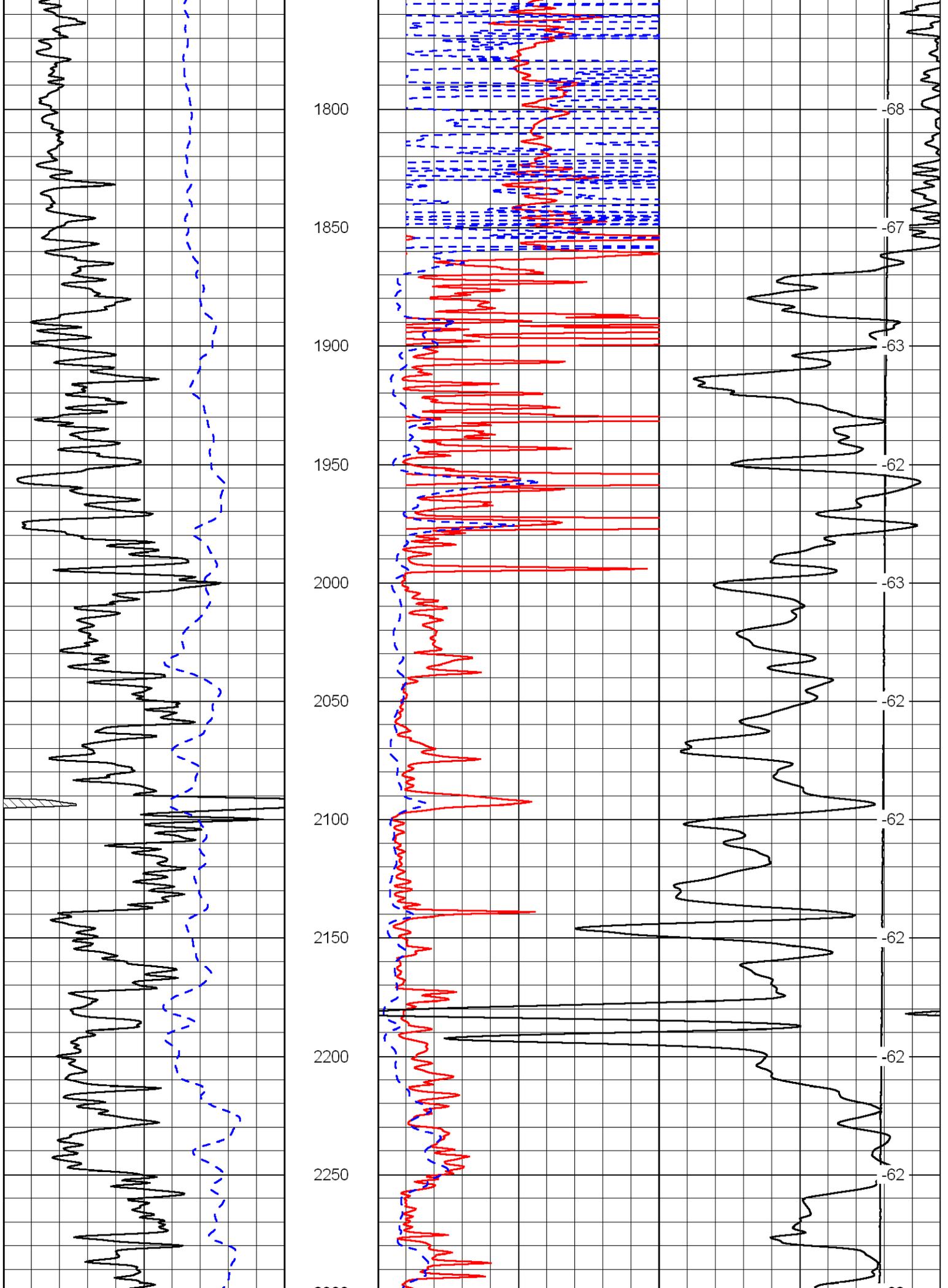
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0 Deep Resistivity 50
1000 Conductivity 0
15000 Line Tension 0
50 Shallow Resistivity 500
50 Deep Resistivity 500

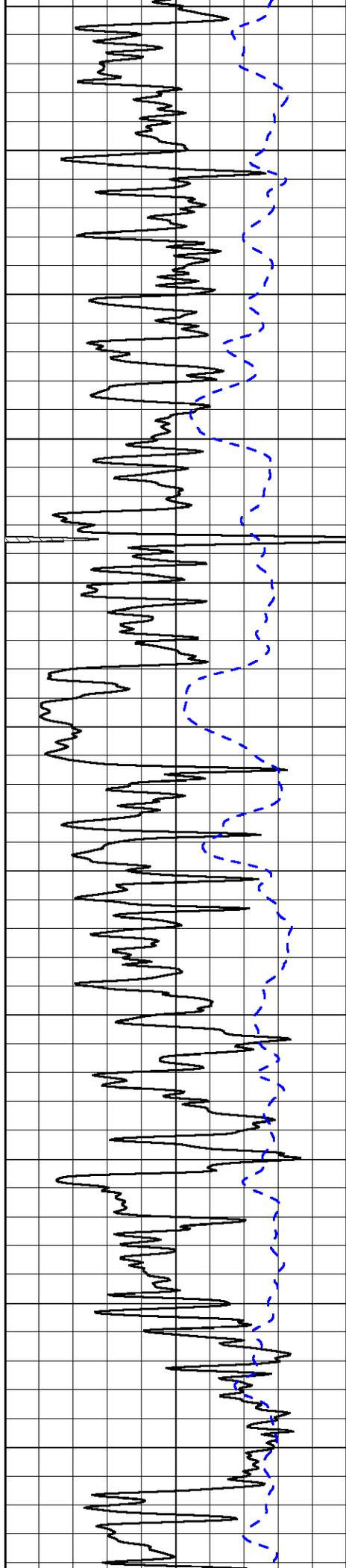
LSPD



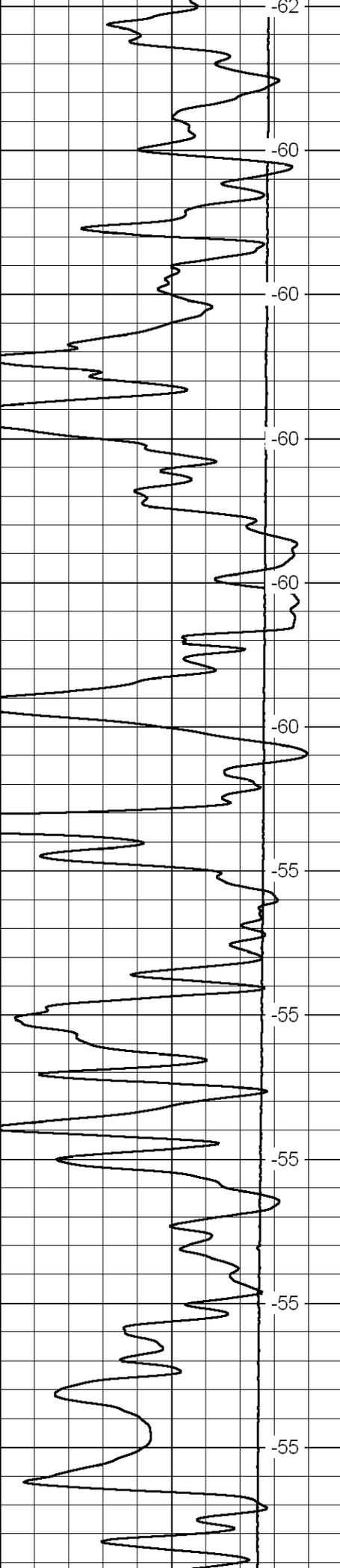
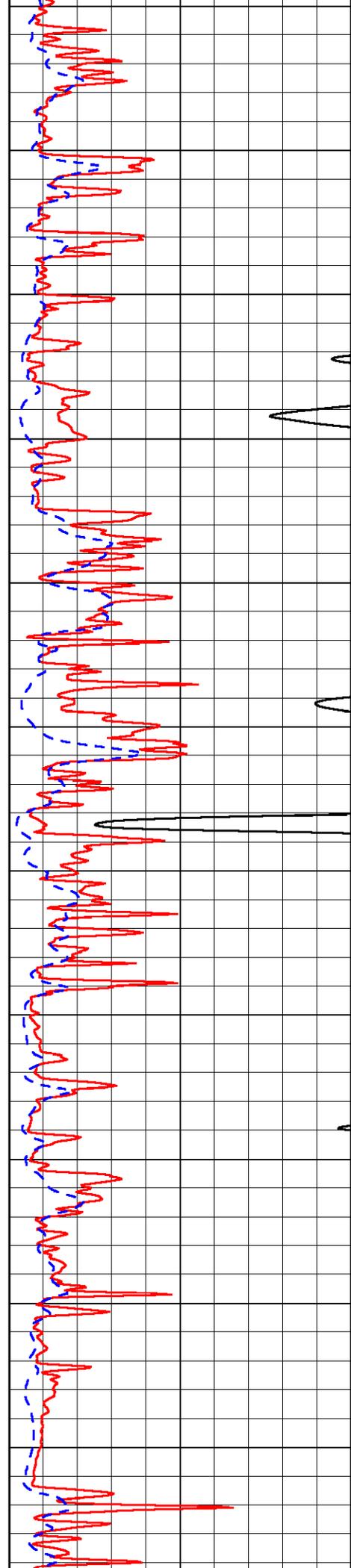


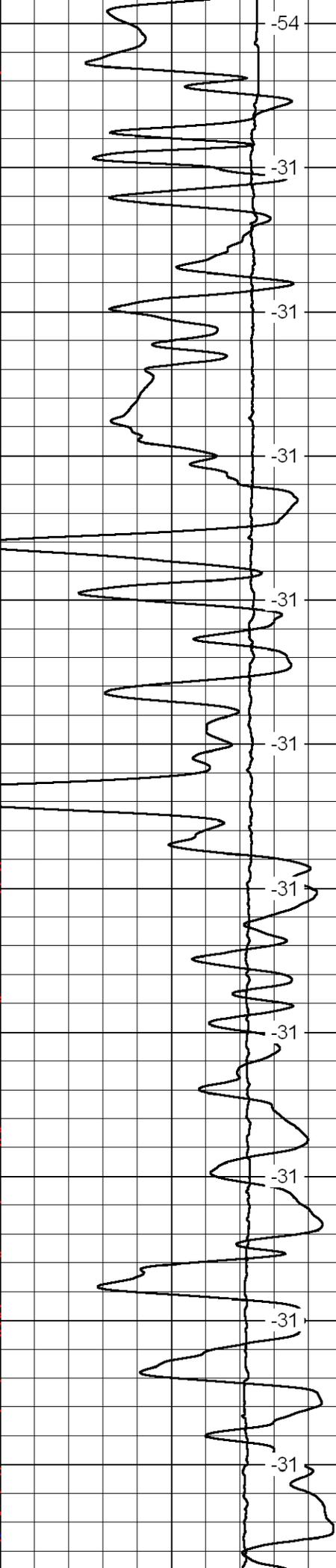
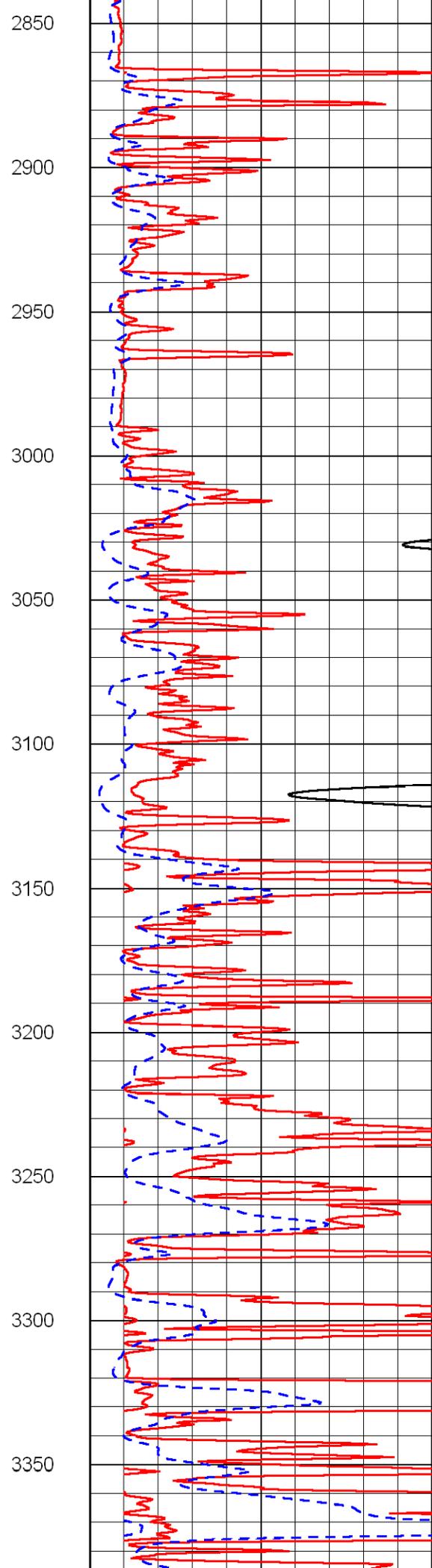
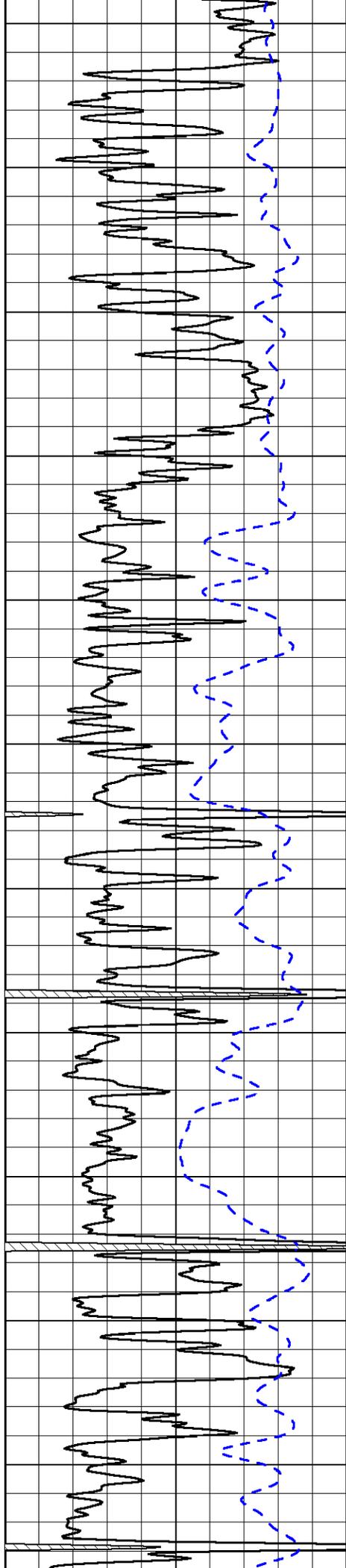


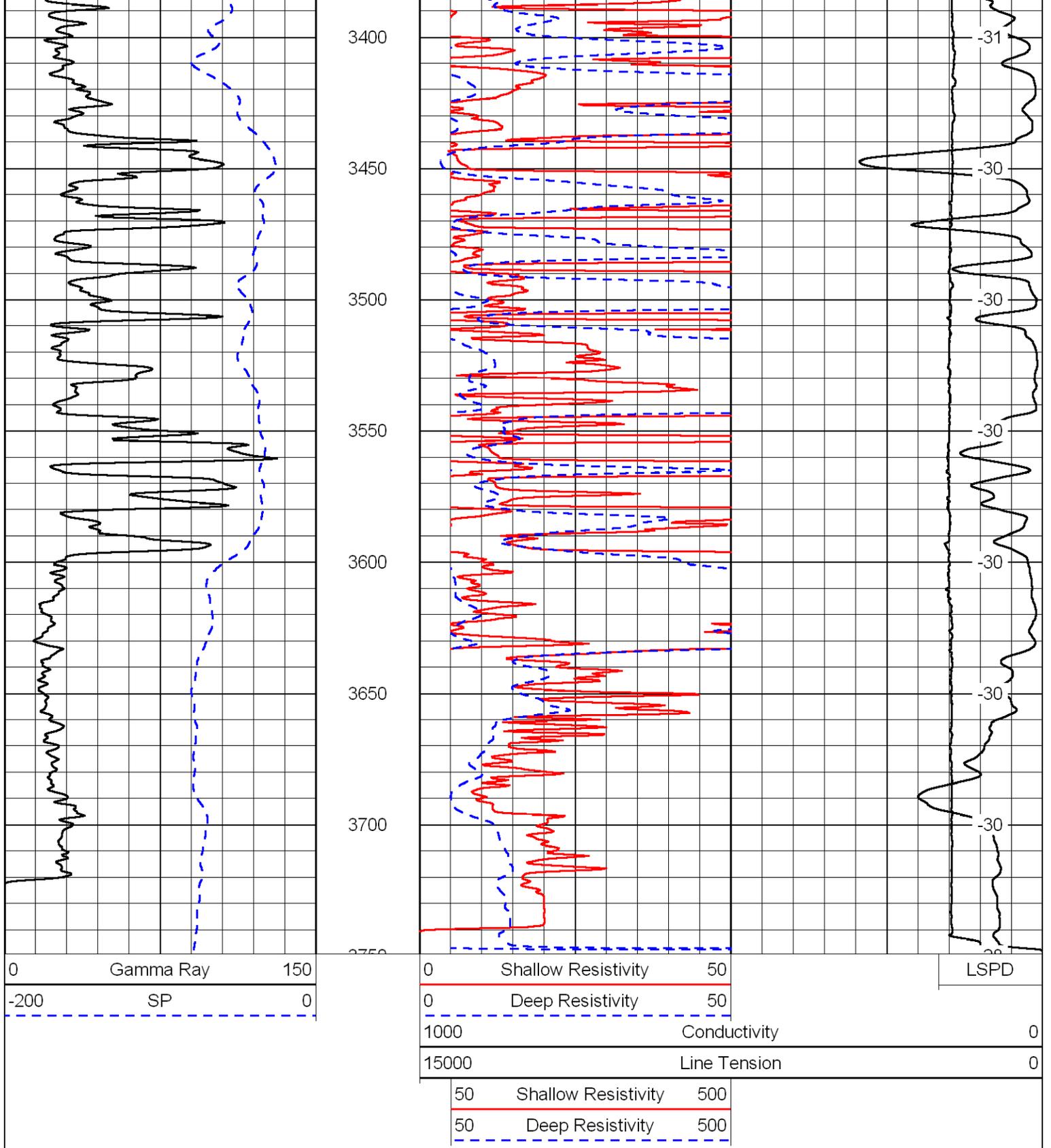




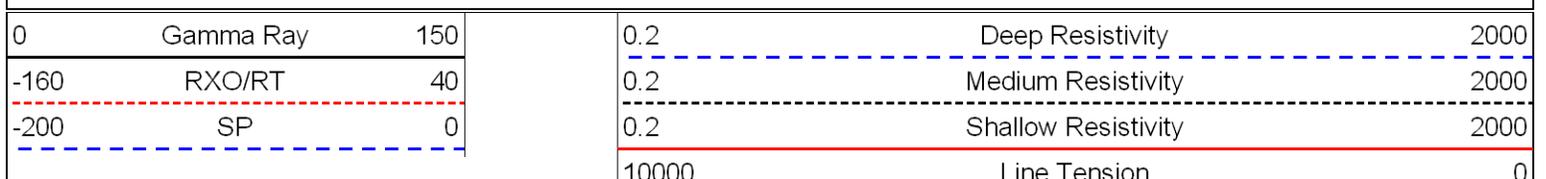
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2500
2550
2600
2650
2700
2750
2800

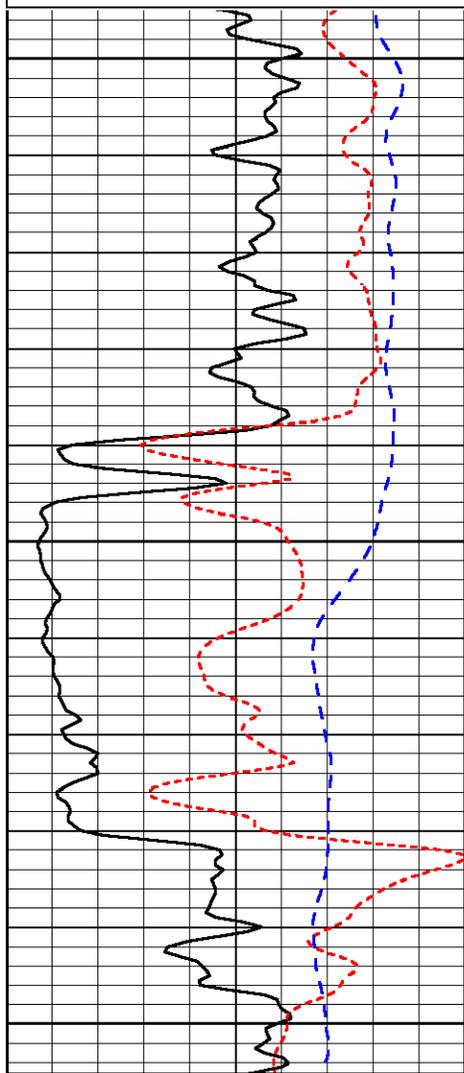






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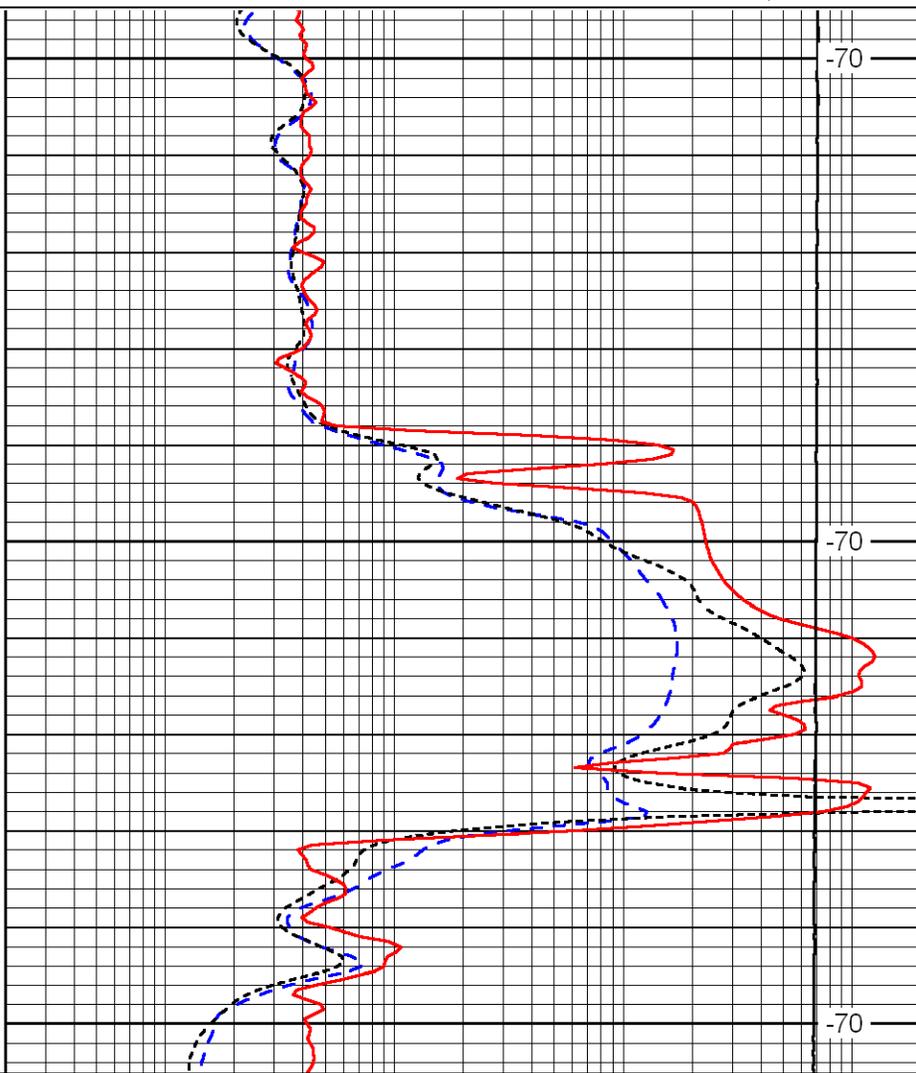


1150

1200

1250

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



-70

-70

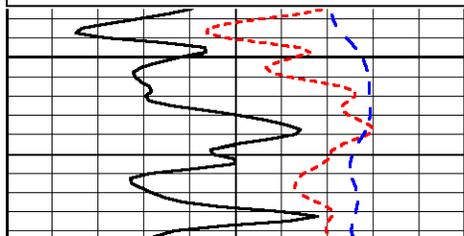
-70

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

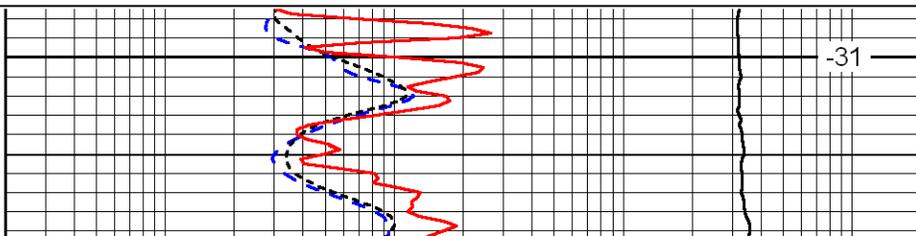
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0	Gamma Ray	150
-160	RXO/RT	40
-200	SP	0

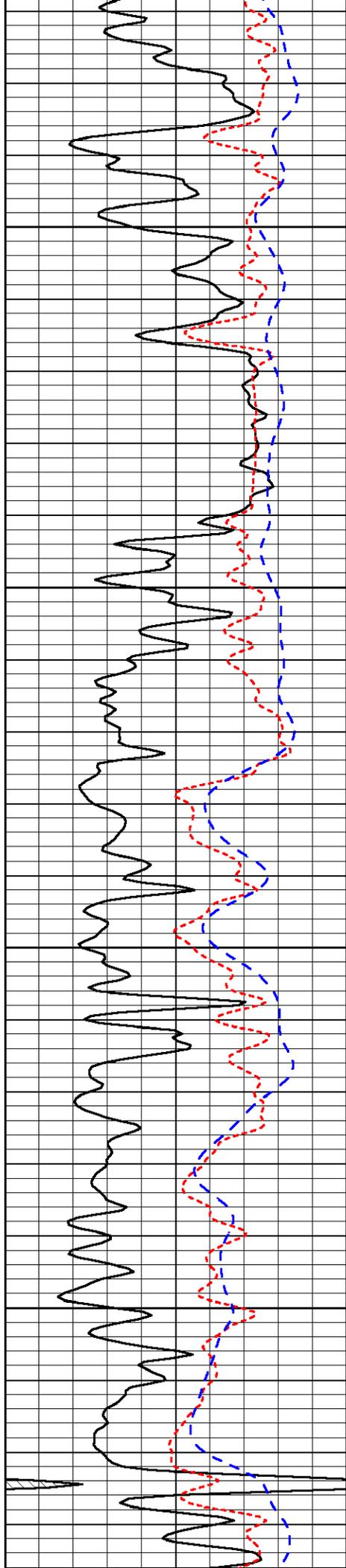
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0.2	Medium Resistivity	2000
0.2	Shallow Resistivity	2000
10000	Line Tension	0



2900



-31

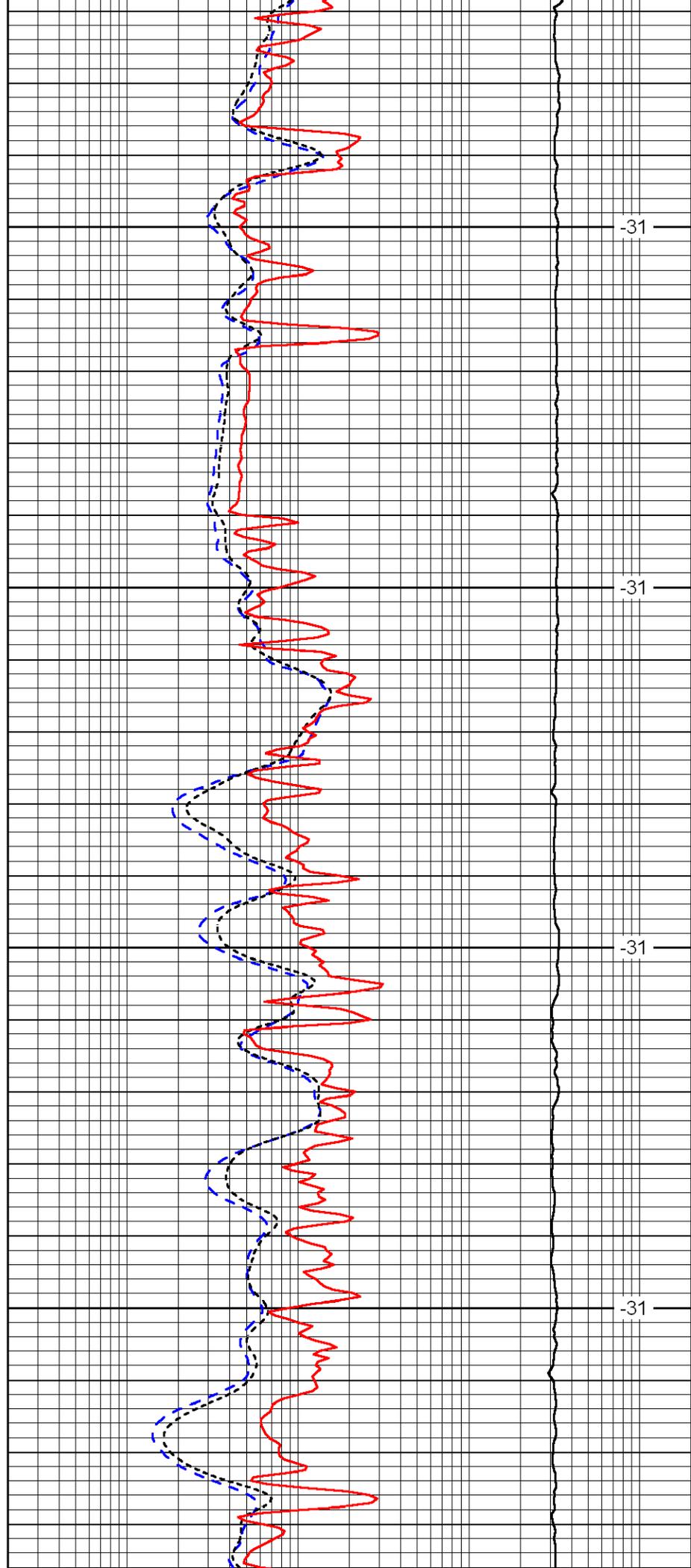


2950

3000

3050

3100

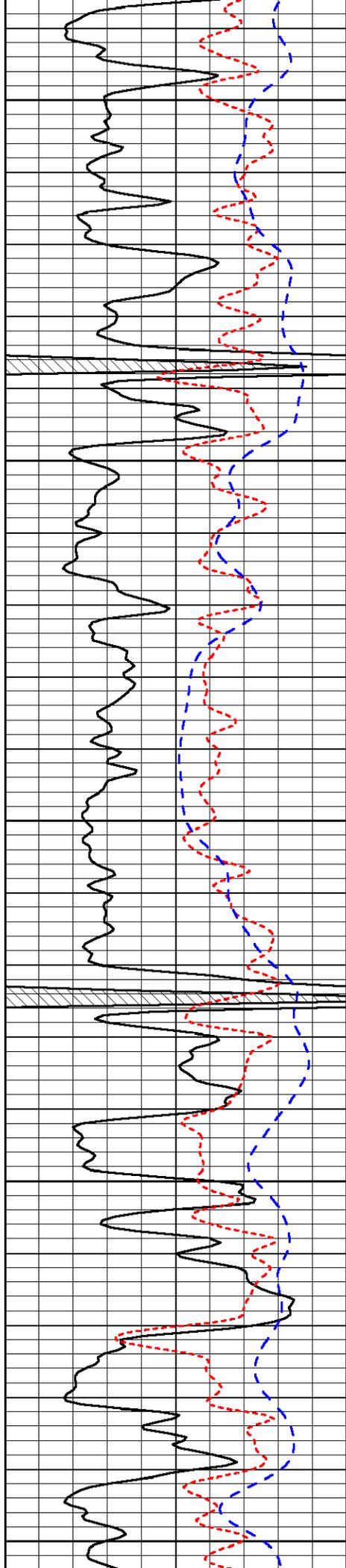


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-31

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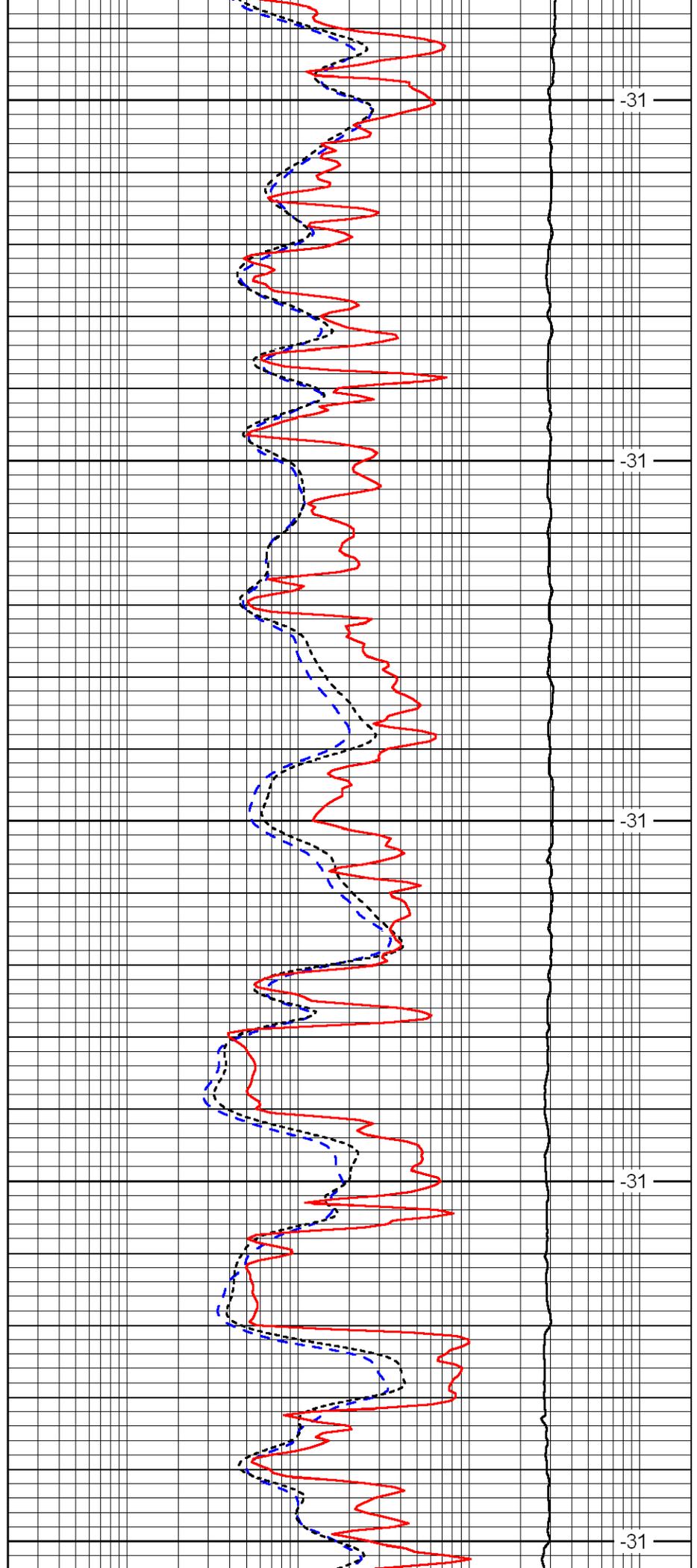
3150

3200

3250

3300

3350



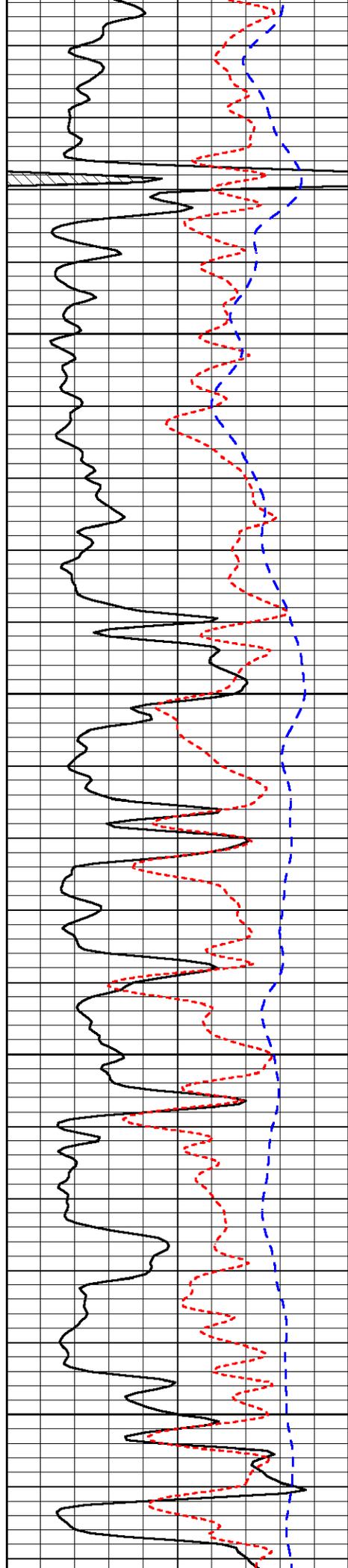
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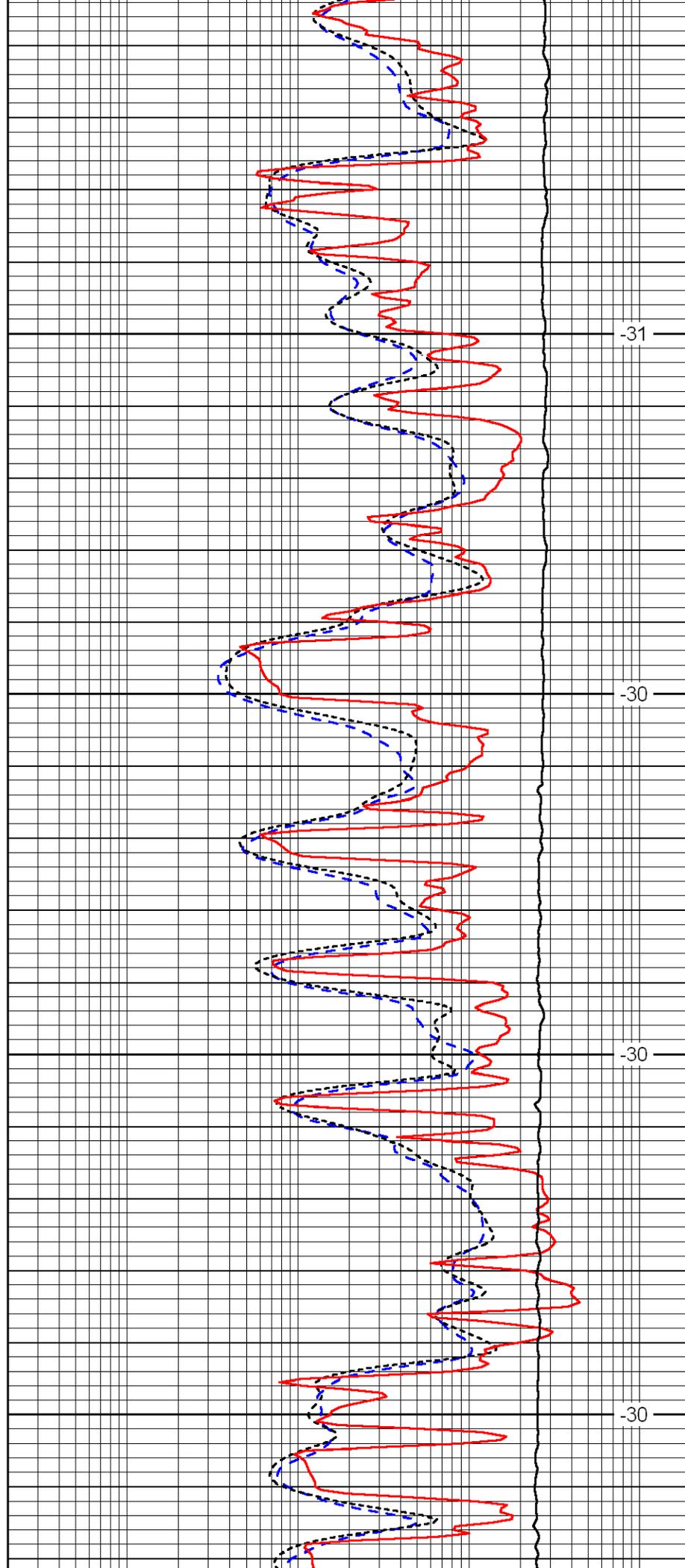


3400

3450

3500

3550

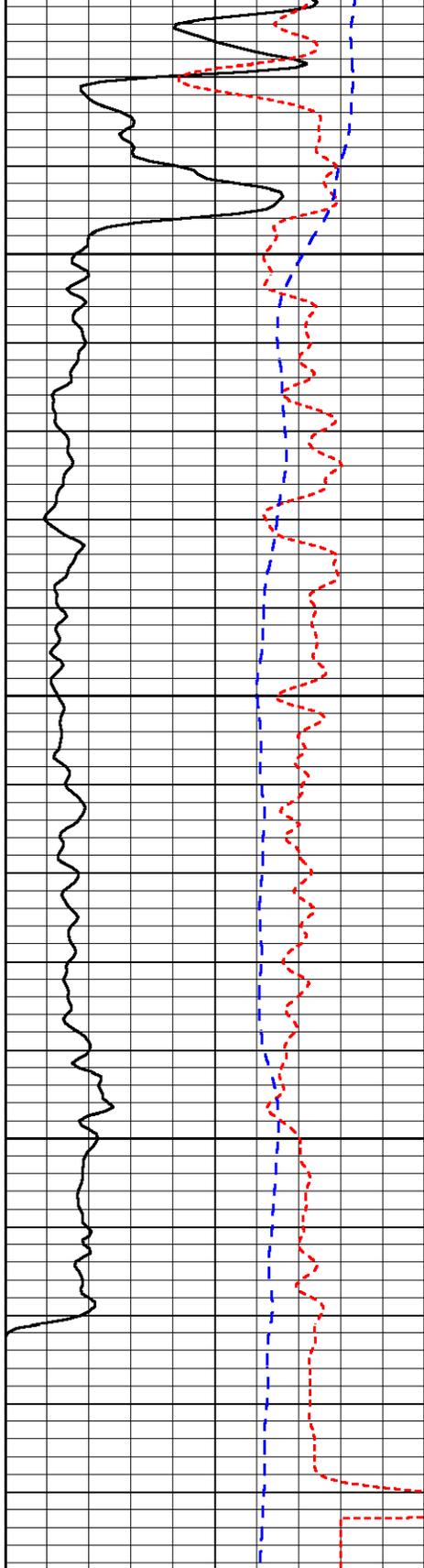


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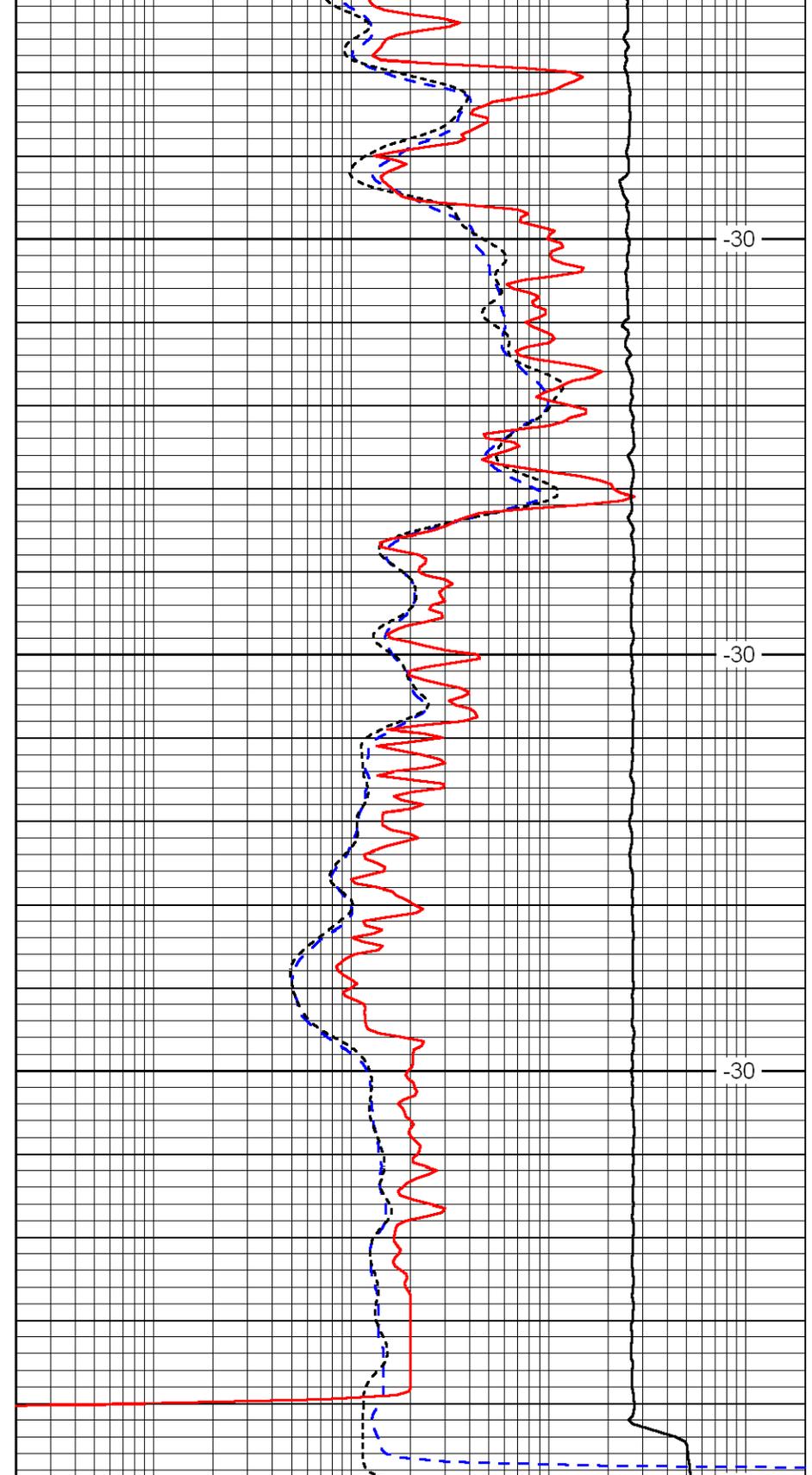


0	Gamma Ray	150
-160	RXO/RT	40
-200	SP	0

3600

3650

3700



-30

-30

-30

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

LSPD