LOG-TECH

DIGITAL LOG (785) 625-3858

Dual Induction Log

API No. 15-051-26,170-00-00

Company	TDI, Inc.
Well	Crathorne No.1
Field	Hyacinth
County	Ellis
State	Kansas

Location: 2035' FSL & 1225' FEL

Sec: 19 Twp: 12 S Rge: 18 W

Other Services: CNL/CDL, MEL

Permanent Datum: Ground Level, Elevation 2188
Log Measured From: Kelly Bushing, 10 Ft. Above Perm. Datum
Drilling Measured From: Kelly Bushing

Elevation: K.B. 2198, D.F., G.L. 2188

Date	8/20/2011		
Run Number	One		
Depth Driller	3878		
Depth Logger	3871		
Bottom Logged Interval	3870		
Top Log Interval	200		
Casing Driller	8.625 @ 225		
Casing Logger	222		
Bit Size	7.875		
Type Fluid in Hole	Chemical		
Salinity,ppm CL	4500		
Density / Viscosity	9.1 / 50		
pH / Fluid Loss	10.5 / 7.2		
Source of Sample	Flowline		
Rm @ Meas. Temp	.58 @ 82		
Rmf @ Meas. Temp	.44 @ 82		
Rmc @ Meas. Temp	.78 @ 82		
Source of Rmf / Rmc	Charts		
Rm @ BHT	.41 @ 115		
Operating Rig Time	4 Hours		
Max Rec. Temp. F	115		
Equipment Number	10		
Location	Hays		
Recorded By	D.Kerr		
Witnessed By	Tom Denning	Herb Deines	

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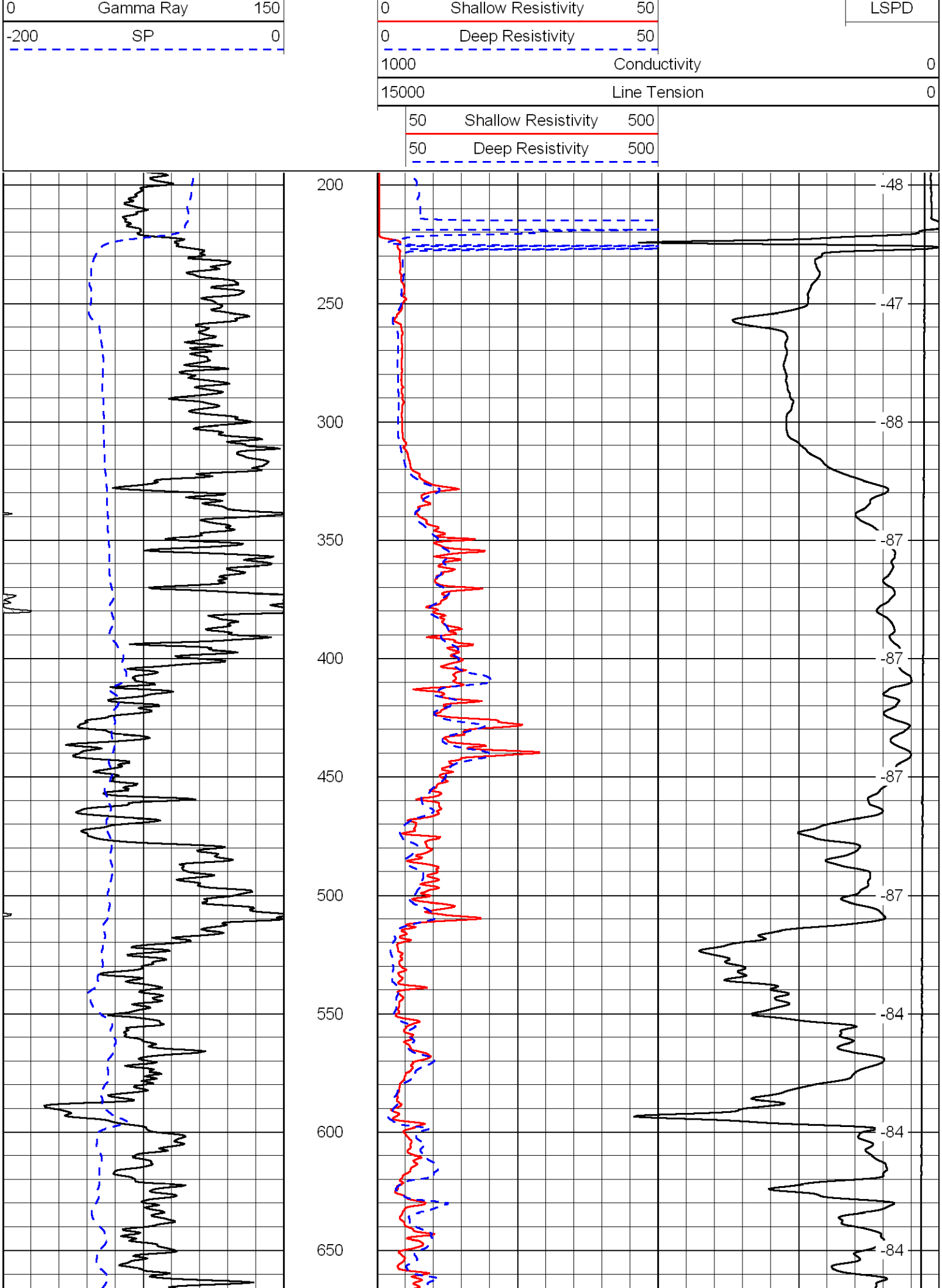
Comments

Thank you for using Log-Tech, Inc.
(785) 625-3858

Hays KS, I-70 (Exit 157) and Bypass 183,
4 North, West Into

Database File:	c:\warrior\data\tdi_crathorne_#1\tdi_crathorne_1hd.db
Dataset Pathname:	dil/tdistk
Presentation Format:	dil2in
Dataset Creation:	Sat Aug 20 11:46:08 2011
Charted by:	Depth in Feet scaled 1:600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-200 SP 0
0 Shallow Resistivity 50
0 Deep Resistivity 50
1000 Conductivity 0
15000 Line Tension 0
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50 Deep Resistivity 500
LSPD
200
250
300
350
400
450
500
550
600
650
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-47
-88
-87
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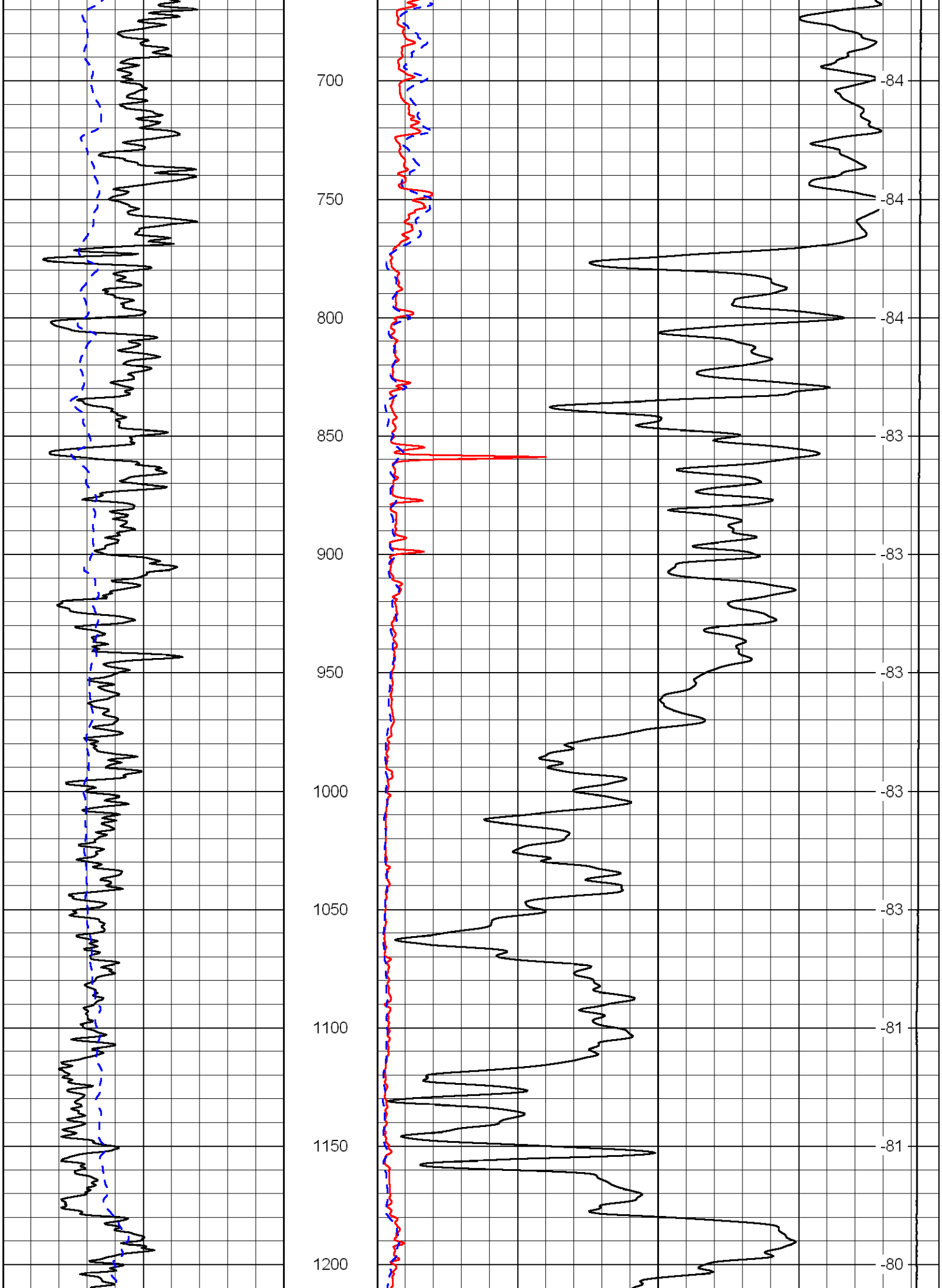
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750
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850
900
950
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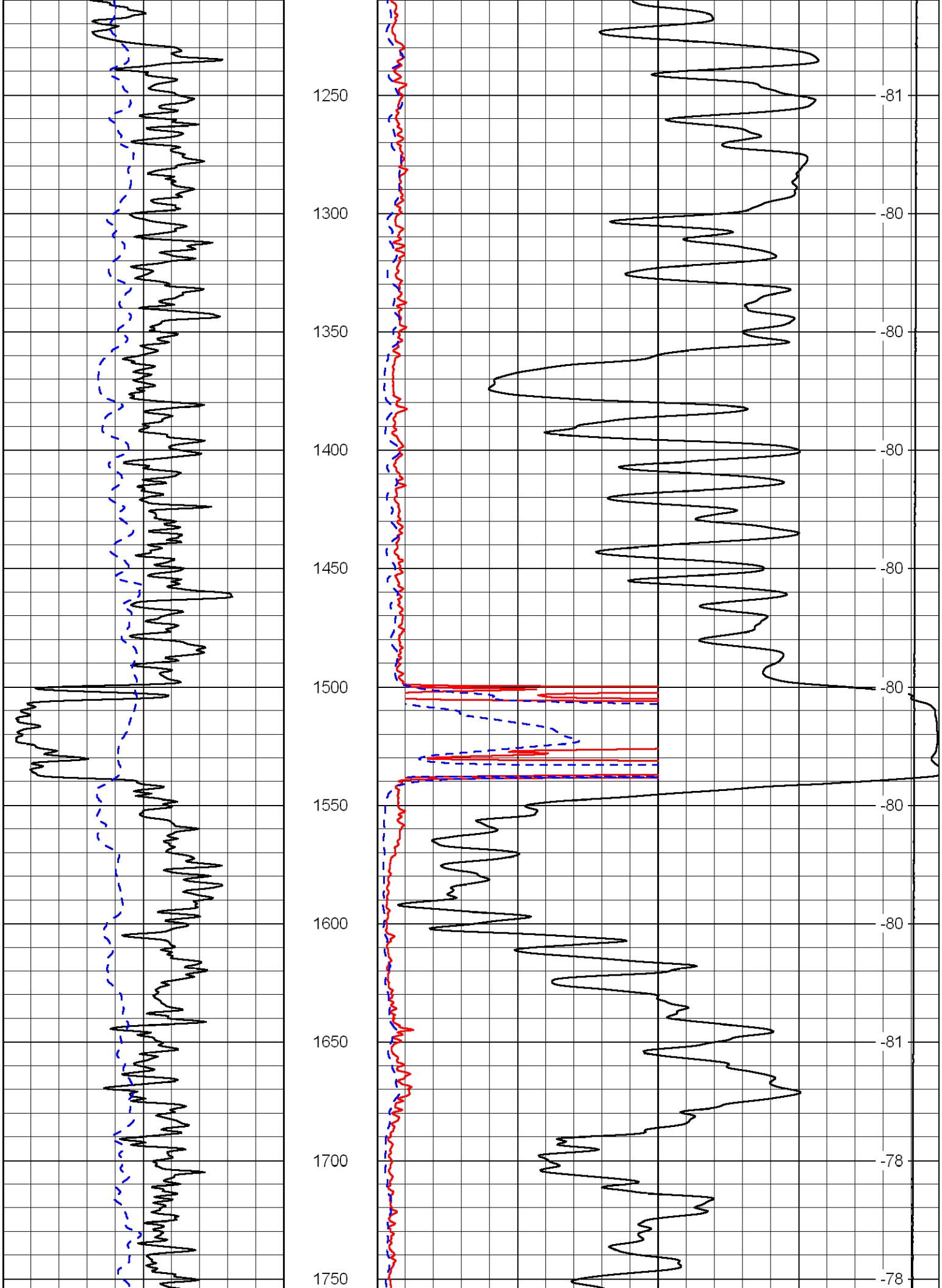
-81
-80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1300
1350
1400
1450
1500
1550
1600
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1700
1750
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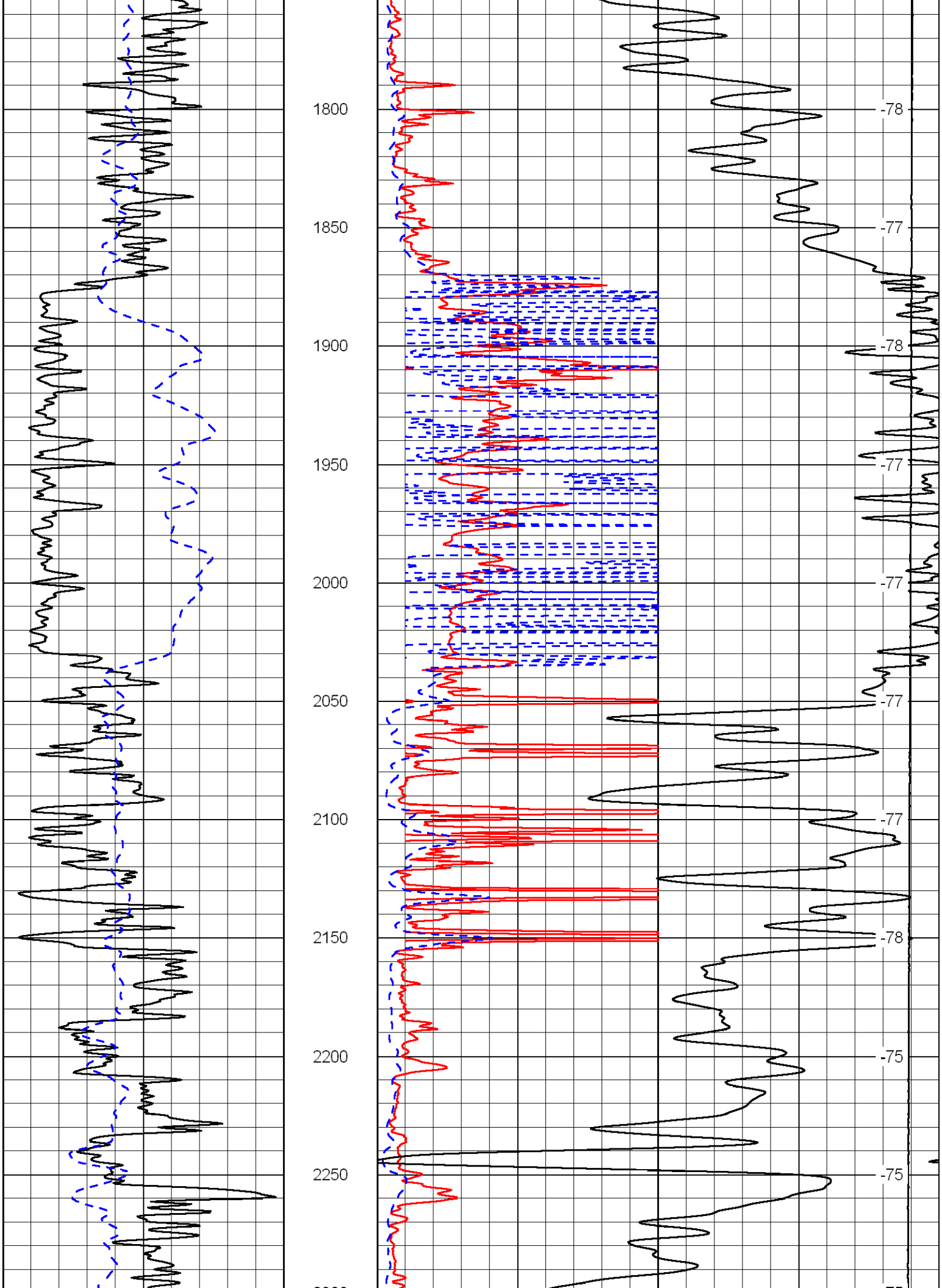
-80
-80
-80
-81
-78
-78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1850
1900
1950
2000
2050
2100
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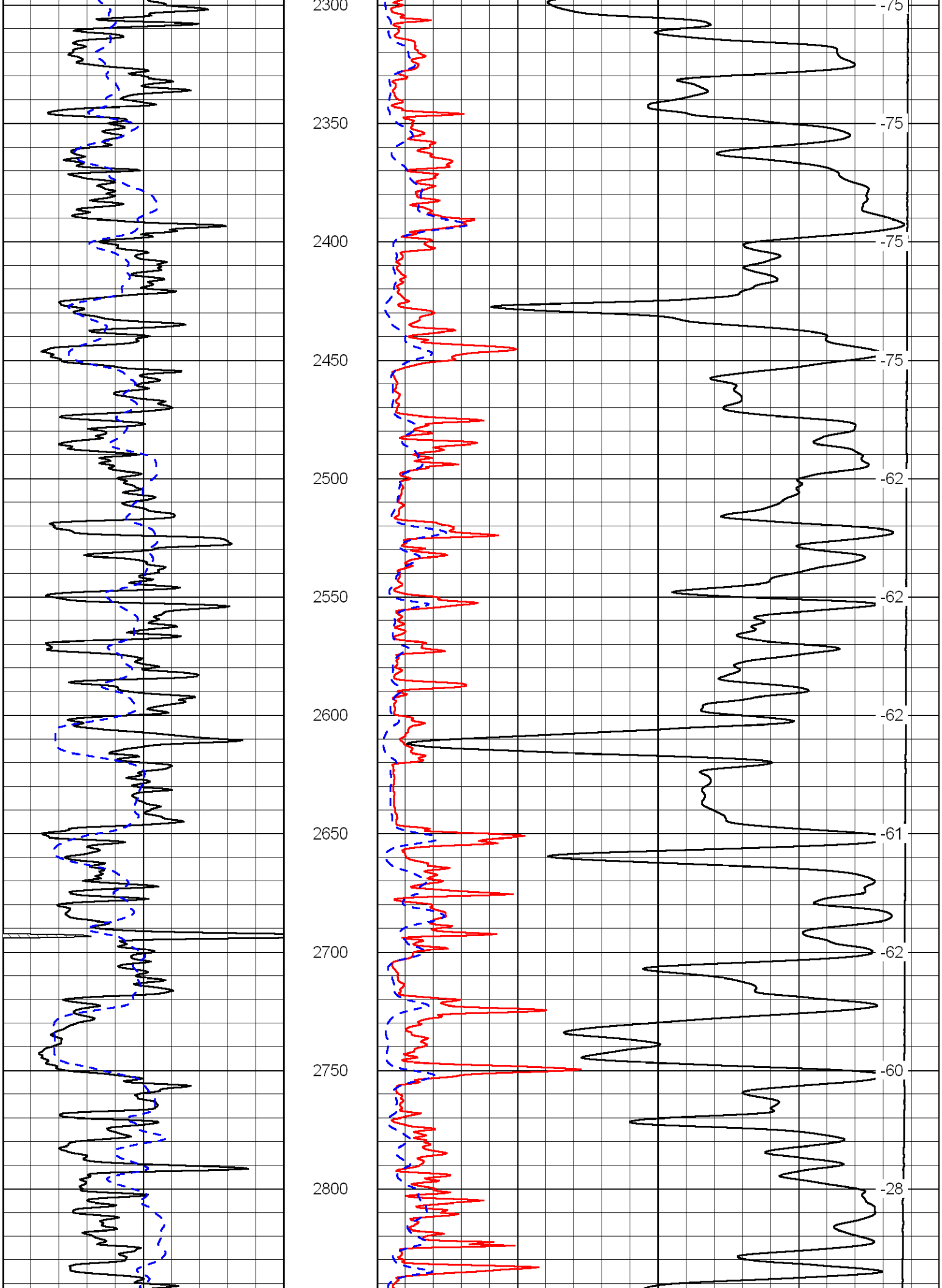
-78
-75
-75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2400
2450
2500
2550
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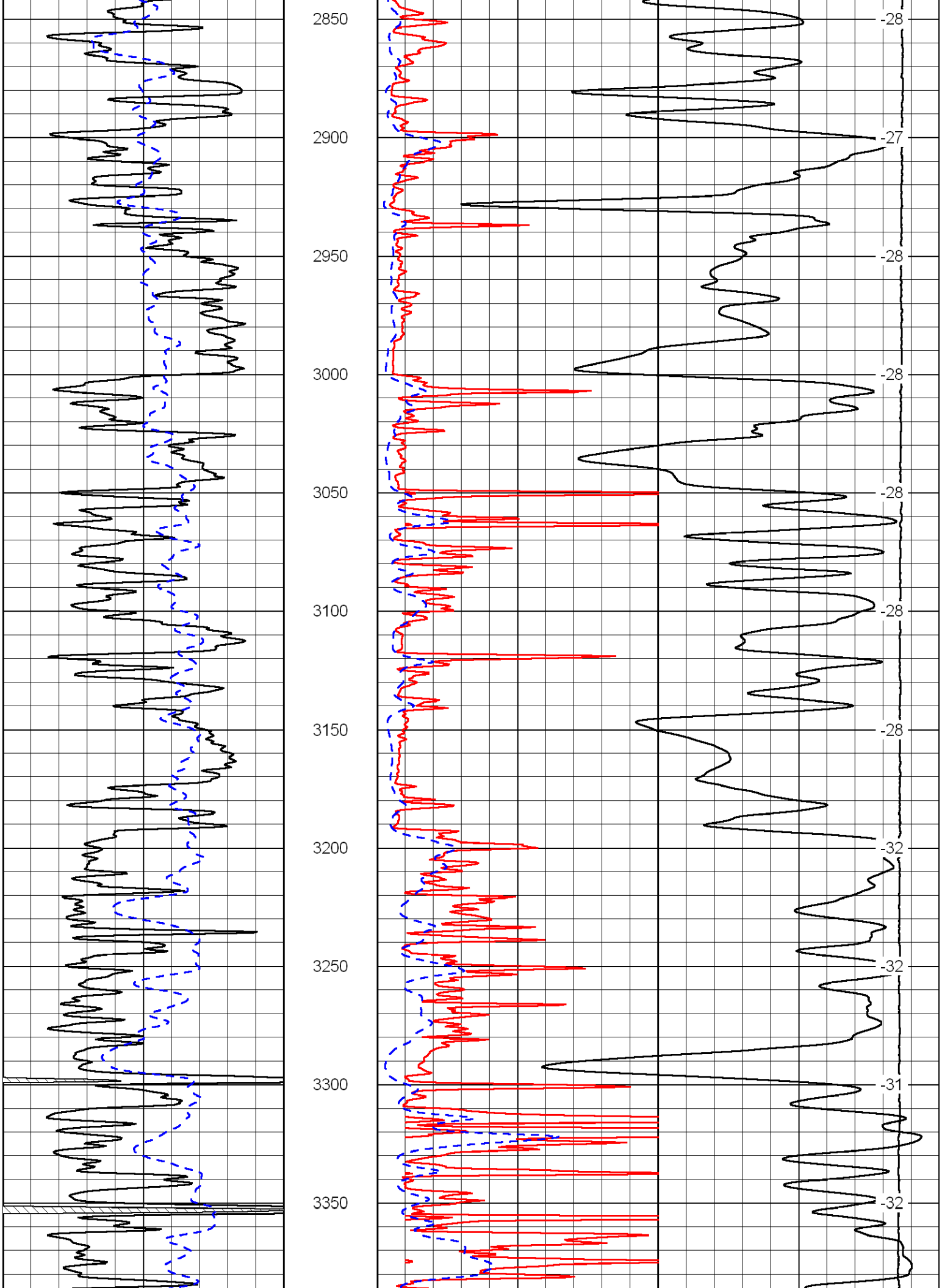
-62
-61
-62
-60
-28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2900
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3000
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3100
3150
3200
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-28
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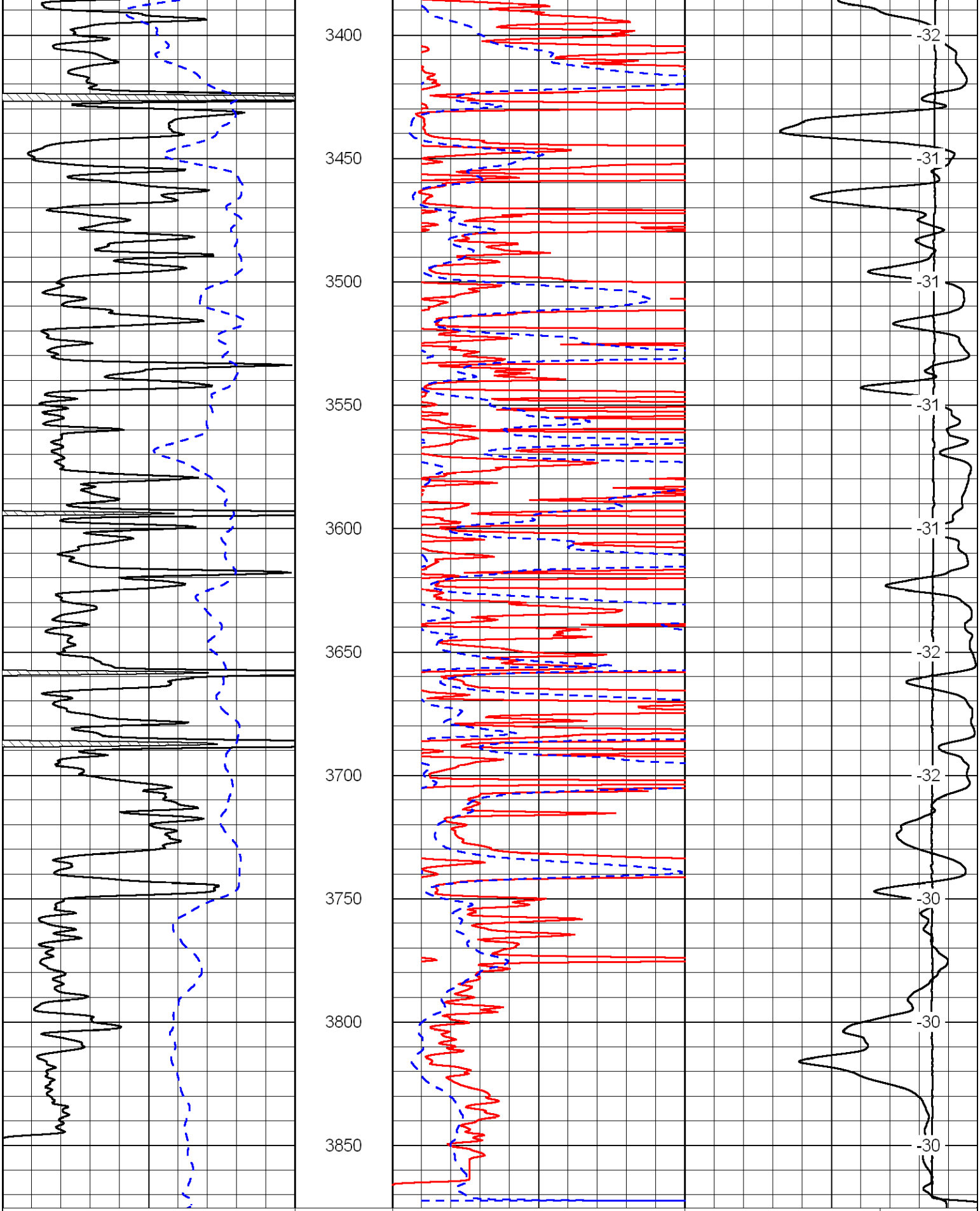
-32
-31
-32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3500
3550
3600
3650
3700
3750
3800
3850
-32
-31
-31
-31
-31
-32
-32
-30
-30
-30
0
Gamma Ray
150
-200
SP
0
0
Shallow Resistivity
50
0
Deep Resistivity
50
LSPD
1000
Conductivity
0
15000
Line Tension
0
50
Shallow Resistivity
500

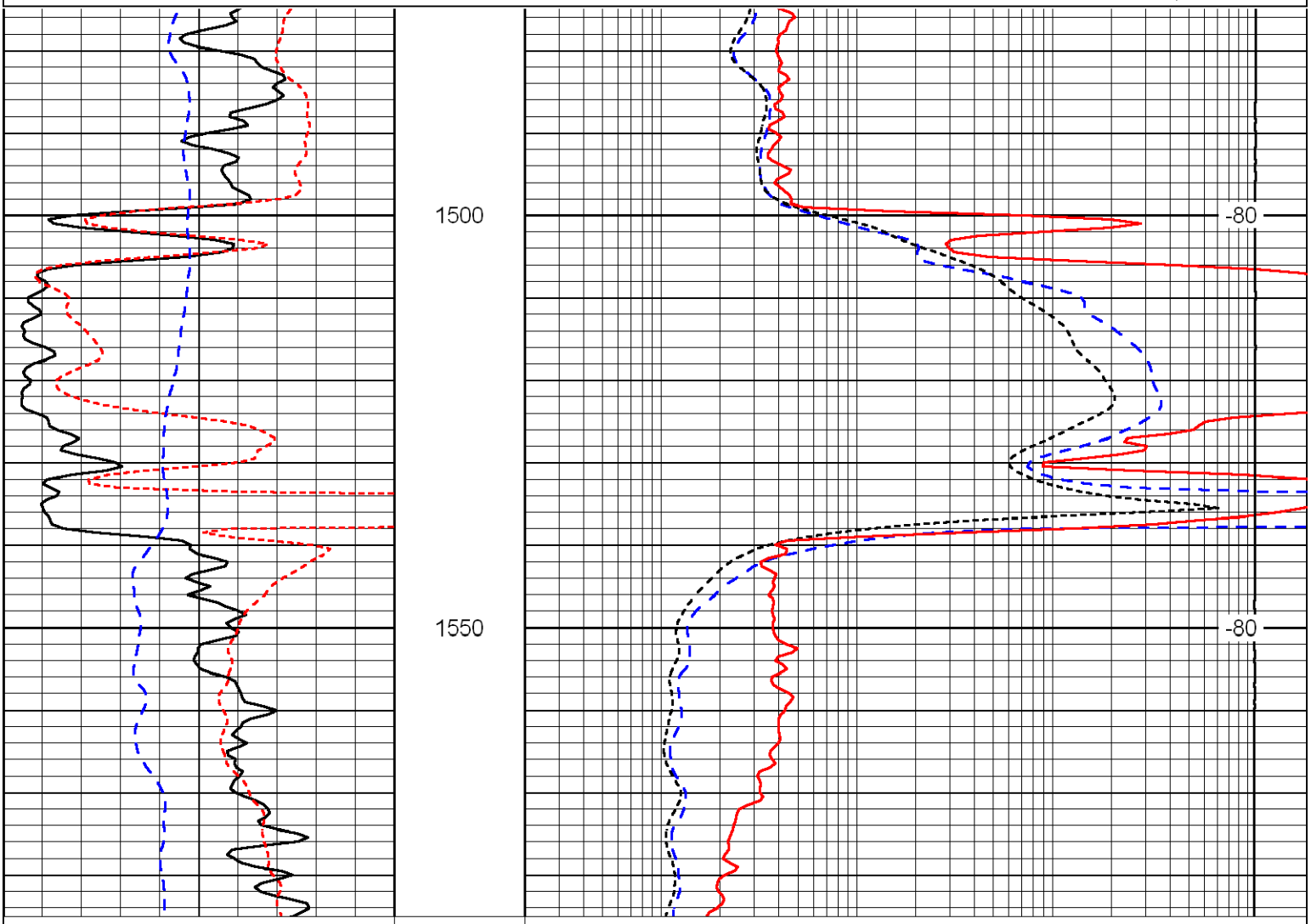
50	Deep Resistivity	500

Database File: c:\warrior\data\tdi_crathorne_#1\tdi_crathorne_1hd.db
Dataset Pathname: dil/tdistk
Presentation Format: dil
Dataset Creation: Sat Aug 20 11:46:08 2011
Charted by: Depth in Feet scaled 1:240

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



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

Database File: c:\warrior\data\tdi_crathorne_#1\tdi_crathorne_1hd.db
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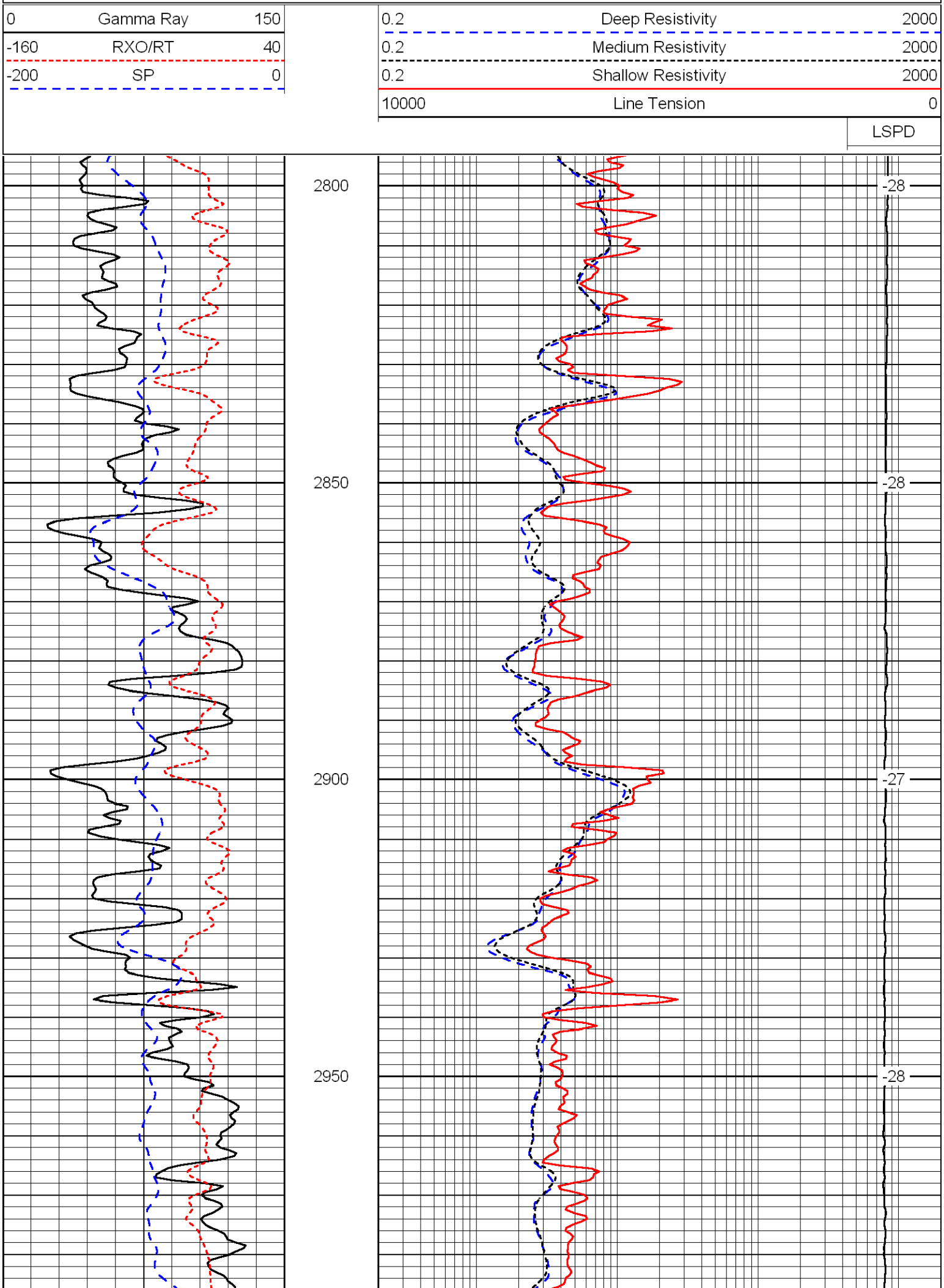
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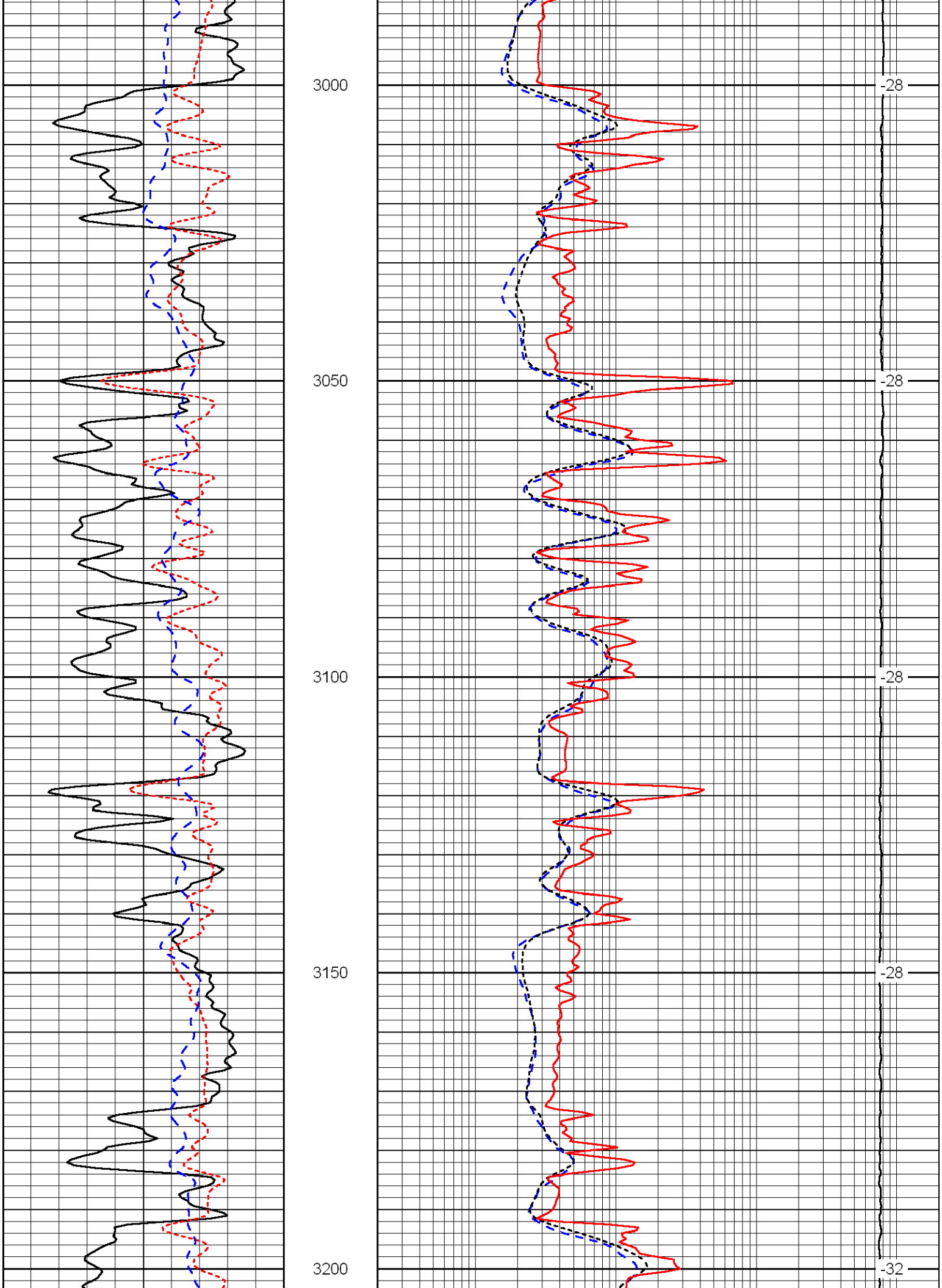
Gamma Ray
150
-160
RXO/RT
40
-200
SP
0
0.2
Deep Resistivity
2000
0.2
Medium Resistivity
2000
0.2
Shallow Resistivity
2000
10000
Line Tension
0
LSPD
2800
2850
2900
2950
-28
-28
-27
-28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3100
3150
3200
-28
-28
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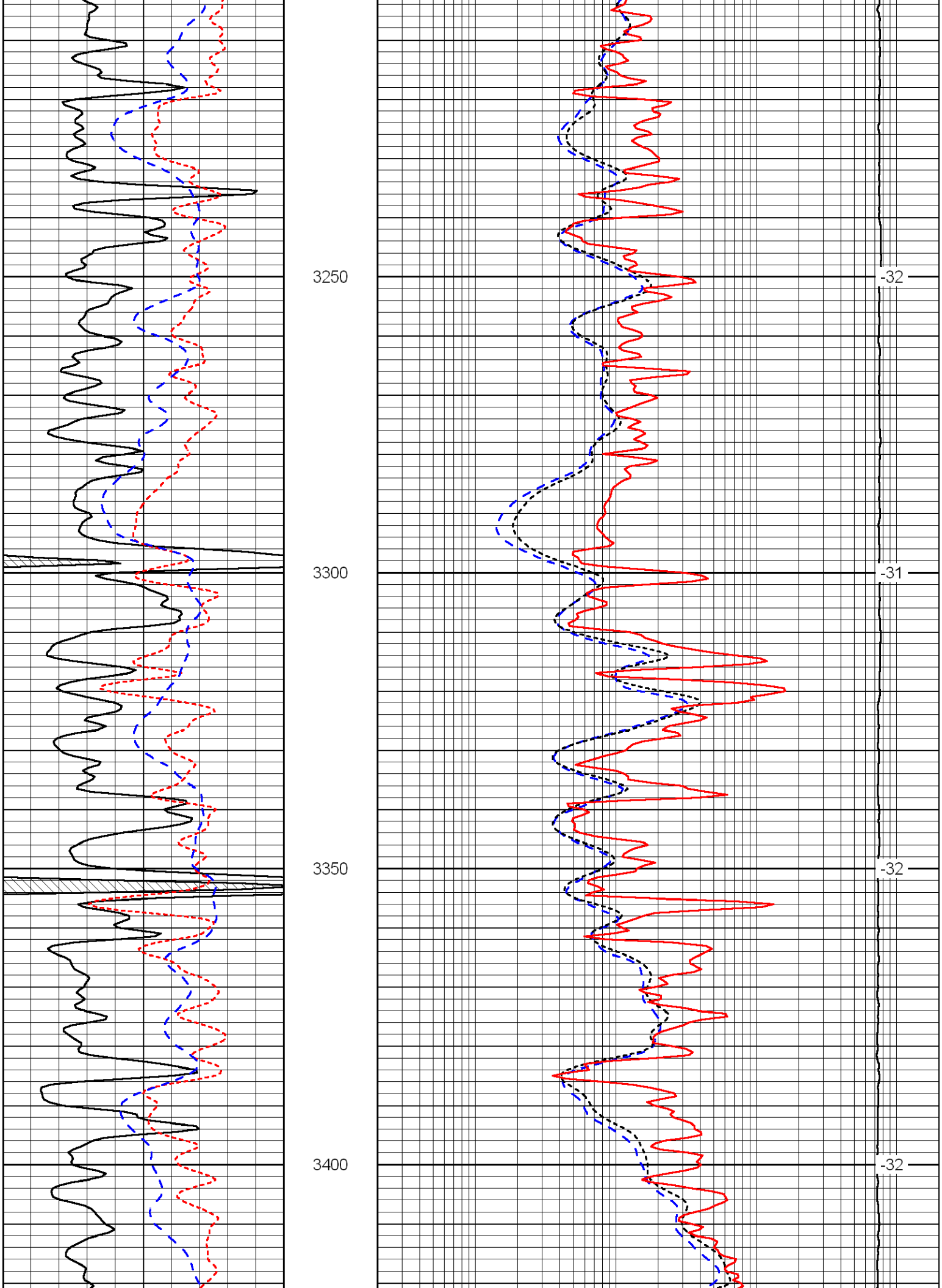
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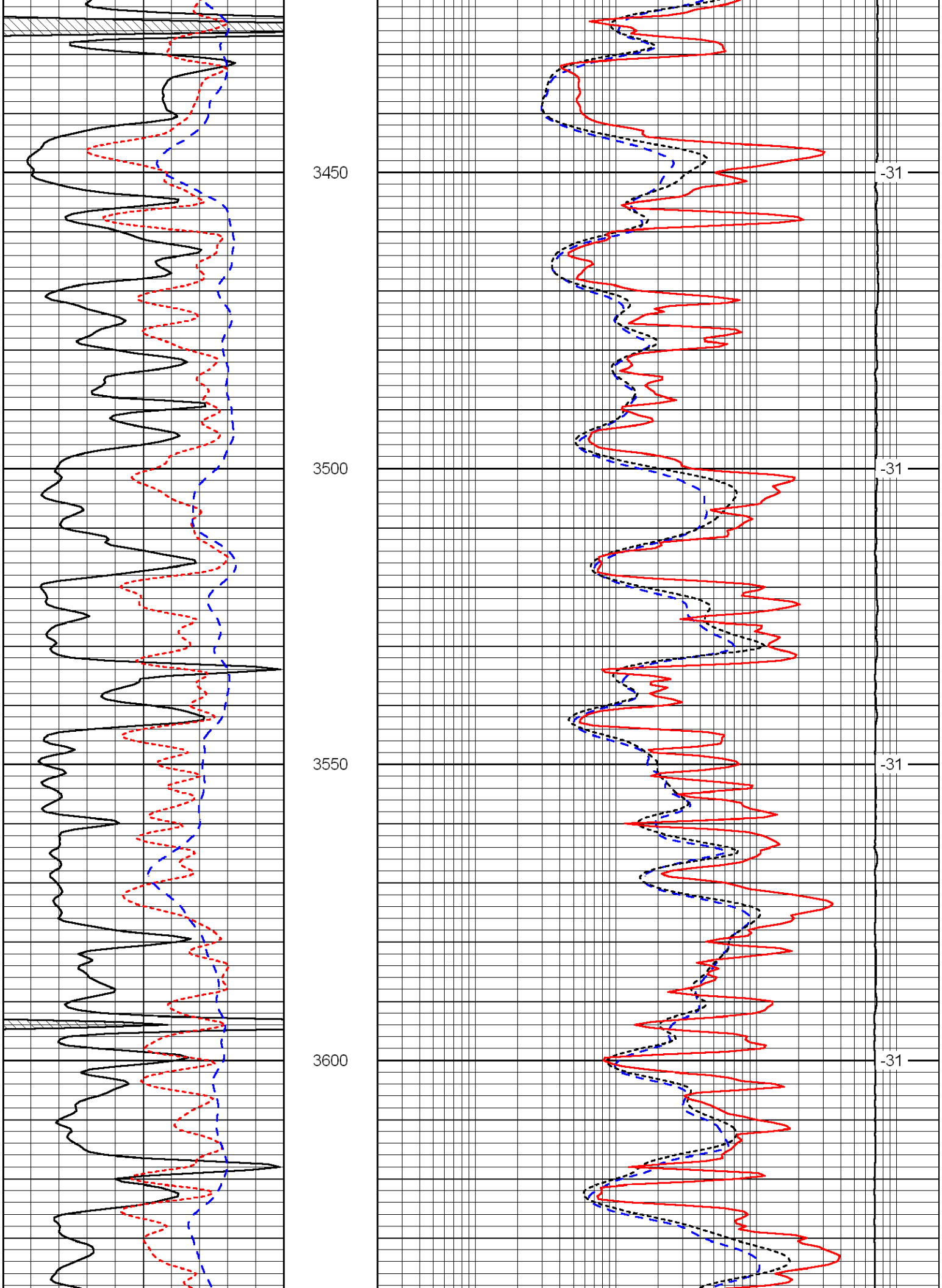
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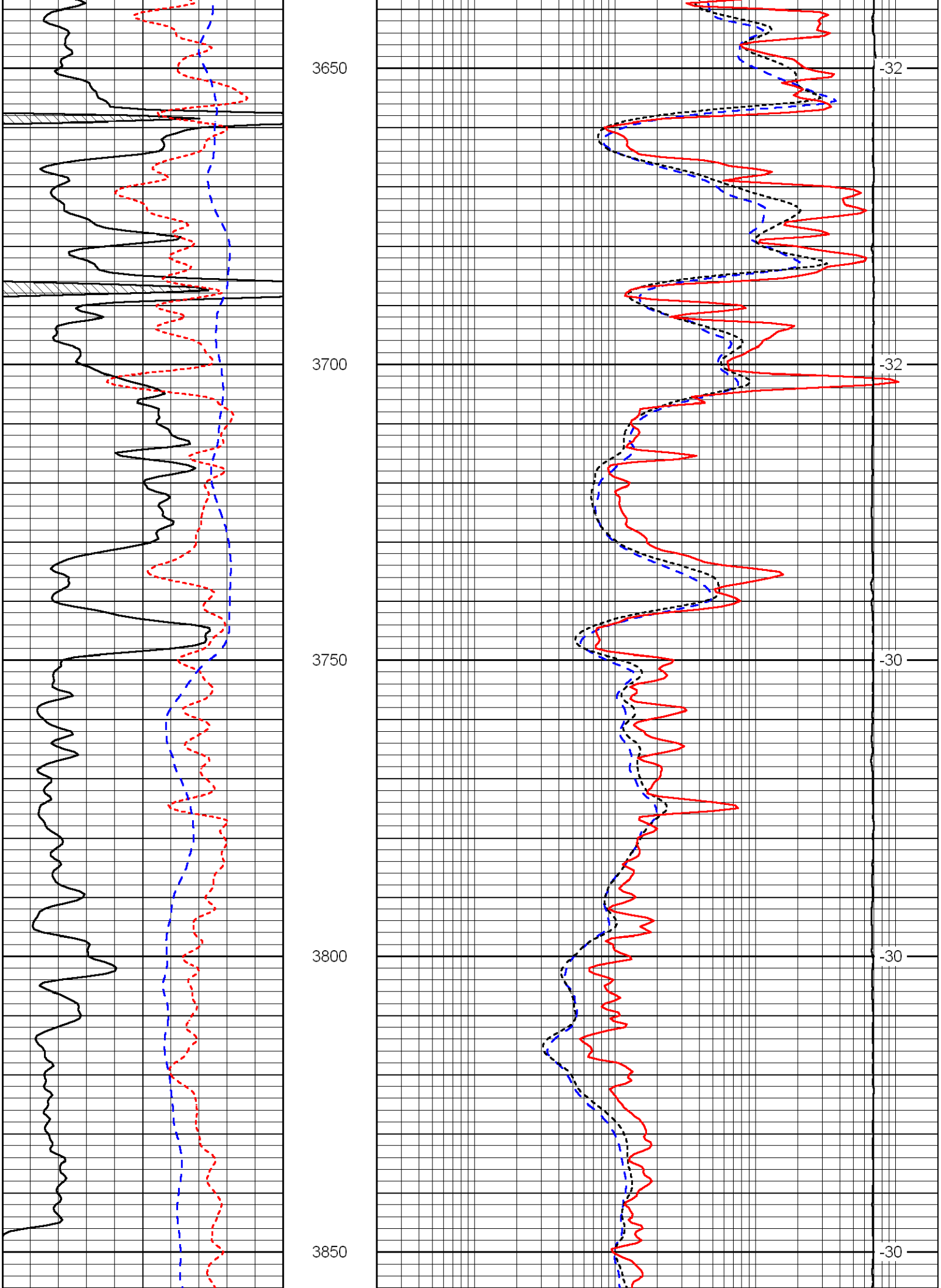
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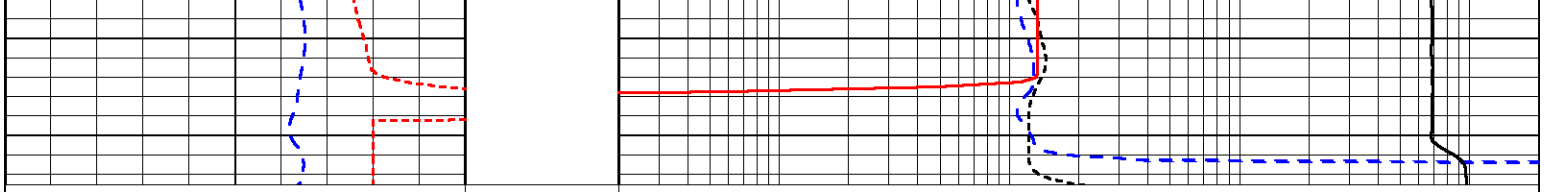

0	Gamma Ray	150
-160	RXO/RT	40
-200	SP	0

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

LSPD