LOG-TECH

DIGITAL LOG (785) 625-3858

Dual Induction Log

API No. 15-141-20415-00-00

Company Bruce Oil Company, L.L.C.

Well Schultze No. 1

Field

County Osborne State Kansas

Location S2 NE SW
1,650' FSL & 1,980' FWL

Sec: 23 Twp: 8S Rge: 14W

Other Services
CNL/CDL
MEL

Elevation
K.B. 1813
D.F.
G.L. 1808

Permanent Datum Ground Level
Log Measured From Kelly Bushing 5 Ft. Above Perm. Datum Elevation 1808
Drilling Measured From Kelly Bushing

Date	9/2/2010		
Run Number	One		
Depth Driller	3640		
Depth Logger	3638		
Bottom Logged Interval	3637		
Top Log Interval	750		
Casing Driller	8.625 @ 781		
Casing Logger	779		
Bit Size	7.875		
Type Fluid in Hole	Chemical		
Salinity,ppm CL	7000		
Density / Viscosity	8.8 42		
pH / Fluid Loss	8.5 10.2		
Source of Sample	Flowline		
Rm @ Meas. Temp	.36 @ 78		
Rmf @ Meas. Temp	.27 @ 78		
Rmc @ Meas. Temp	.49 @ 78		
Source of Rmf / Rmc	Charts		
Rm @ BHT	.25 @ 112		
Operating Rig Time	4 Hours		
Max. Rec. Temp. F	112		
Equipment Number	10		
Location	Hays		
Recorded By	J. Long		
Witnessed By	Bob Peterson	Lonny Bruce	

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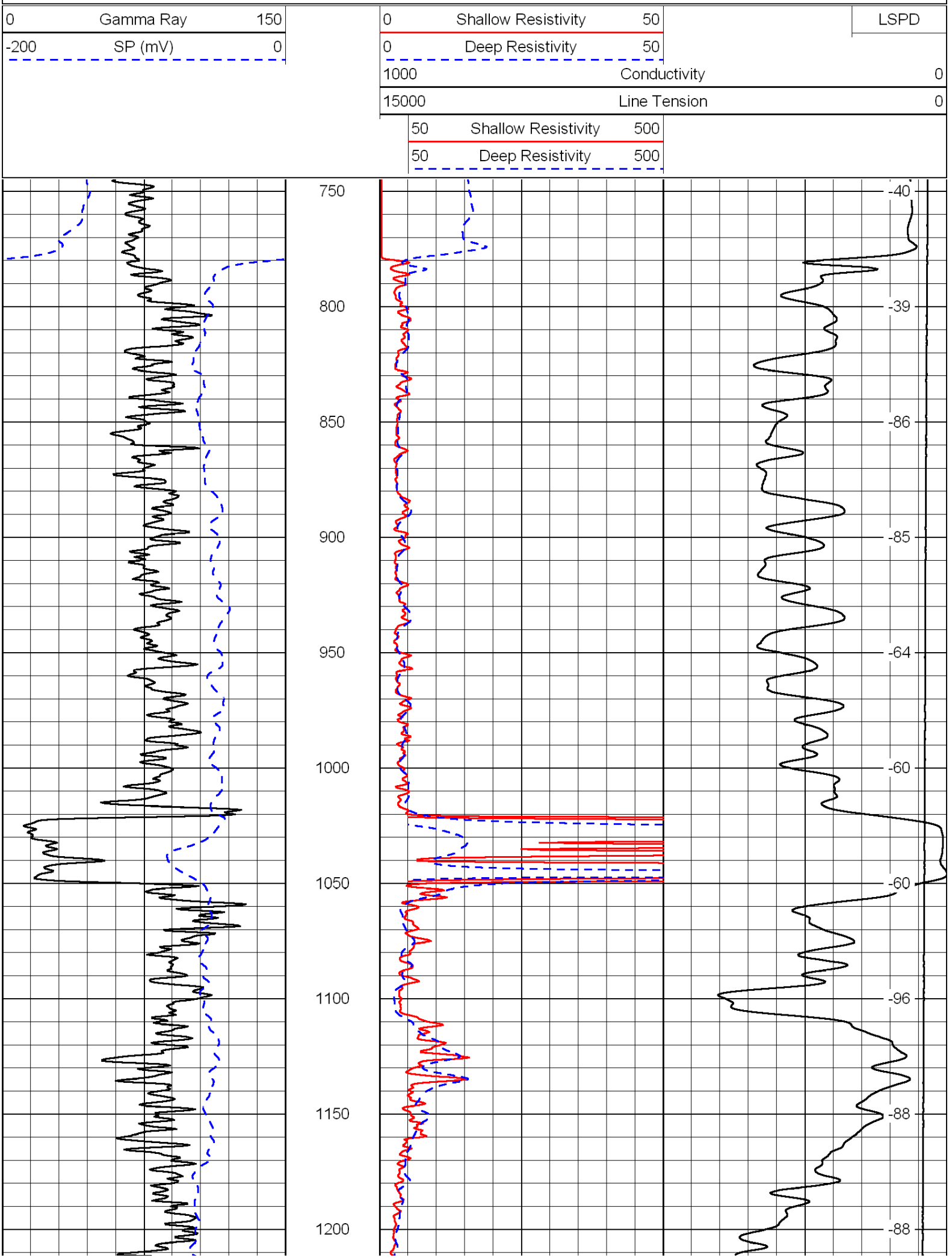
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs,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

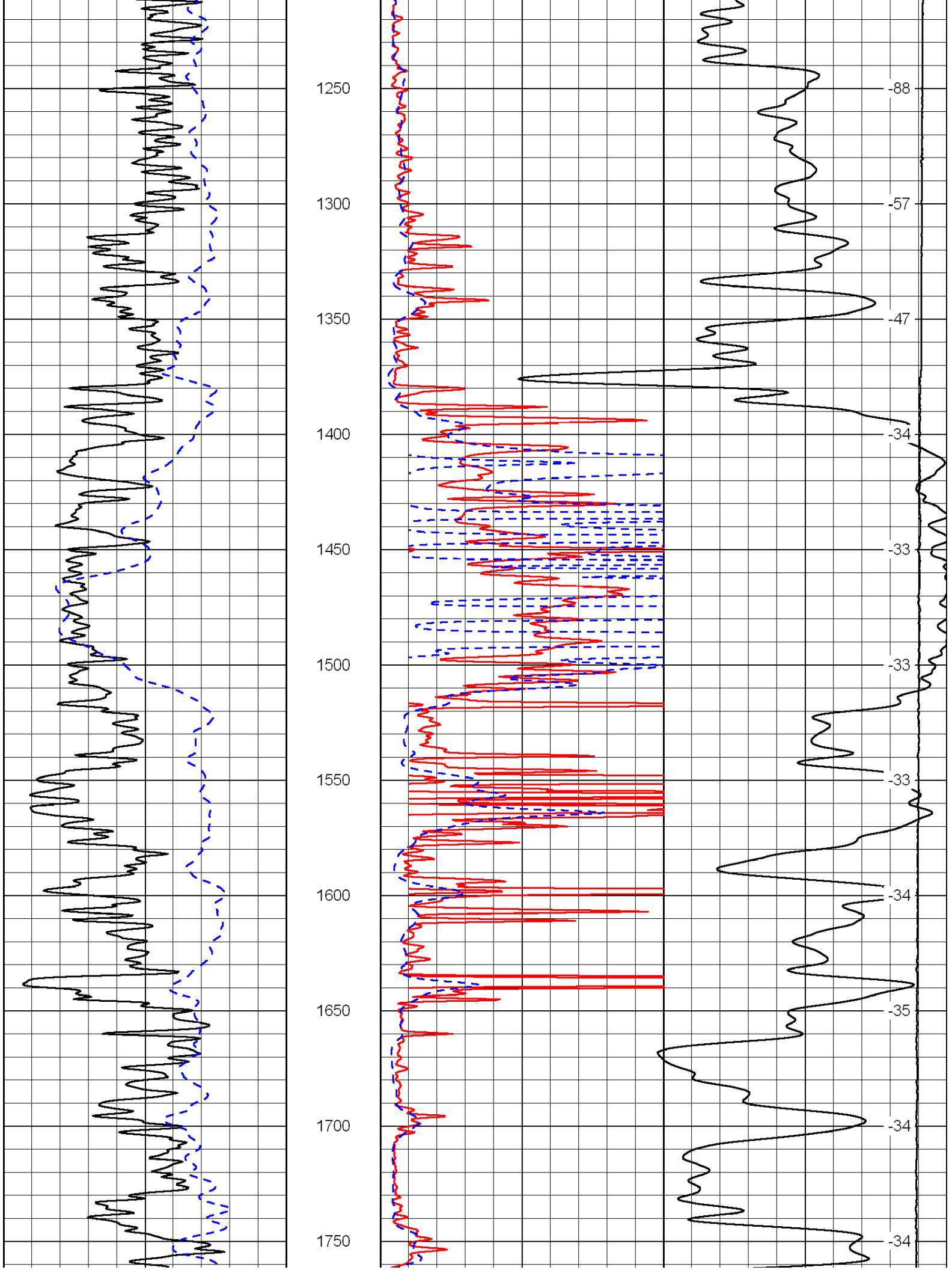
Comments

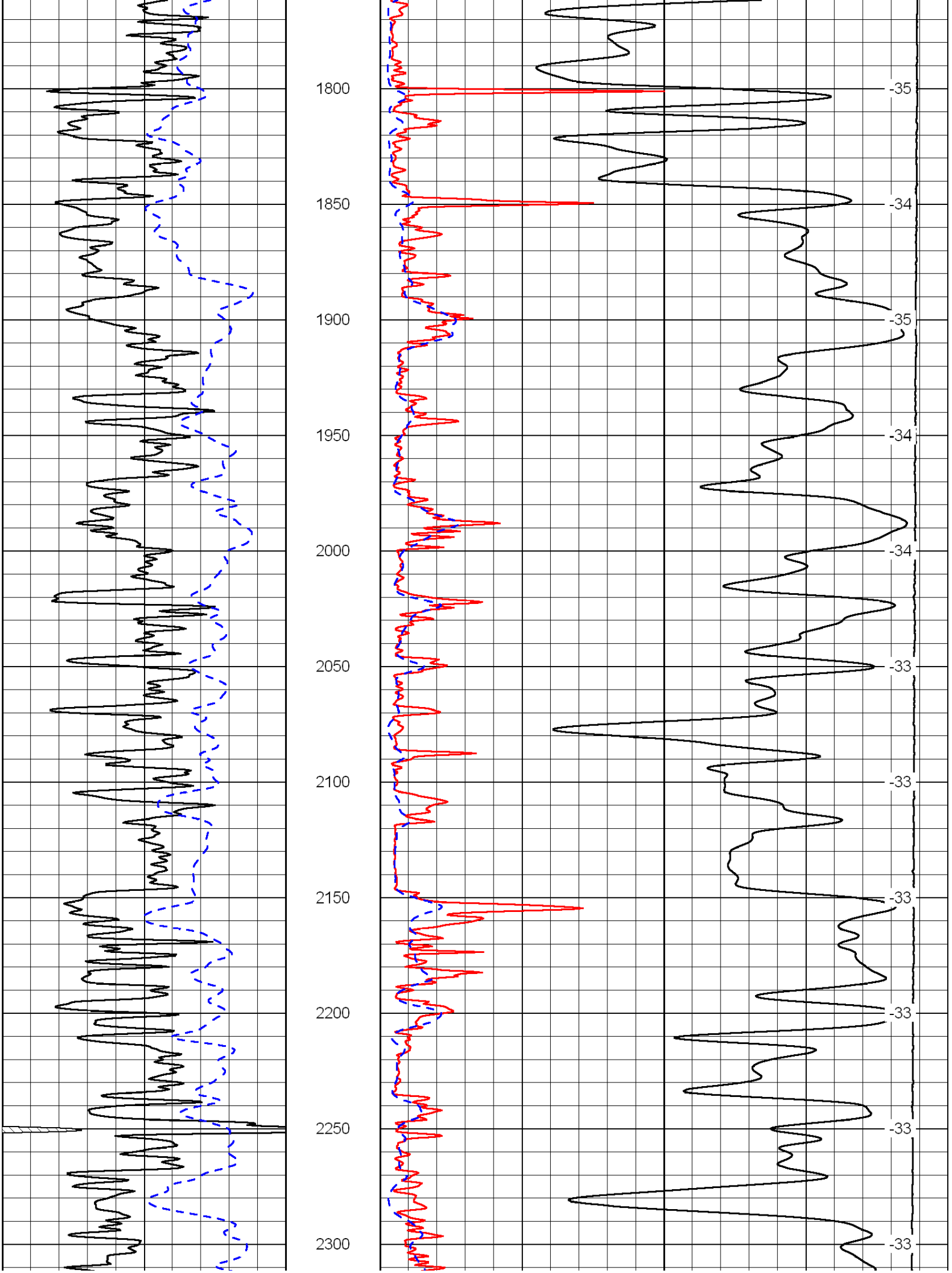
Thank you for using Log-Tech, Inc.
(785) 625-3858

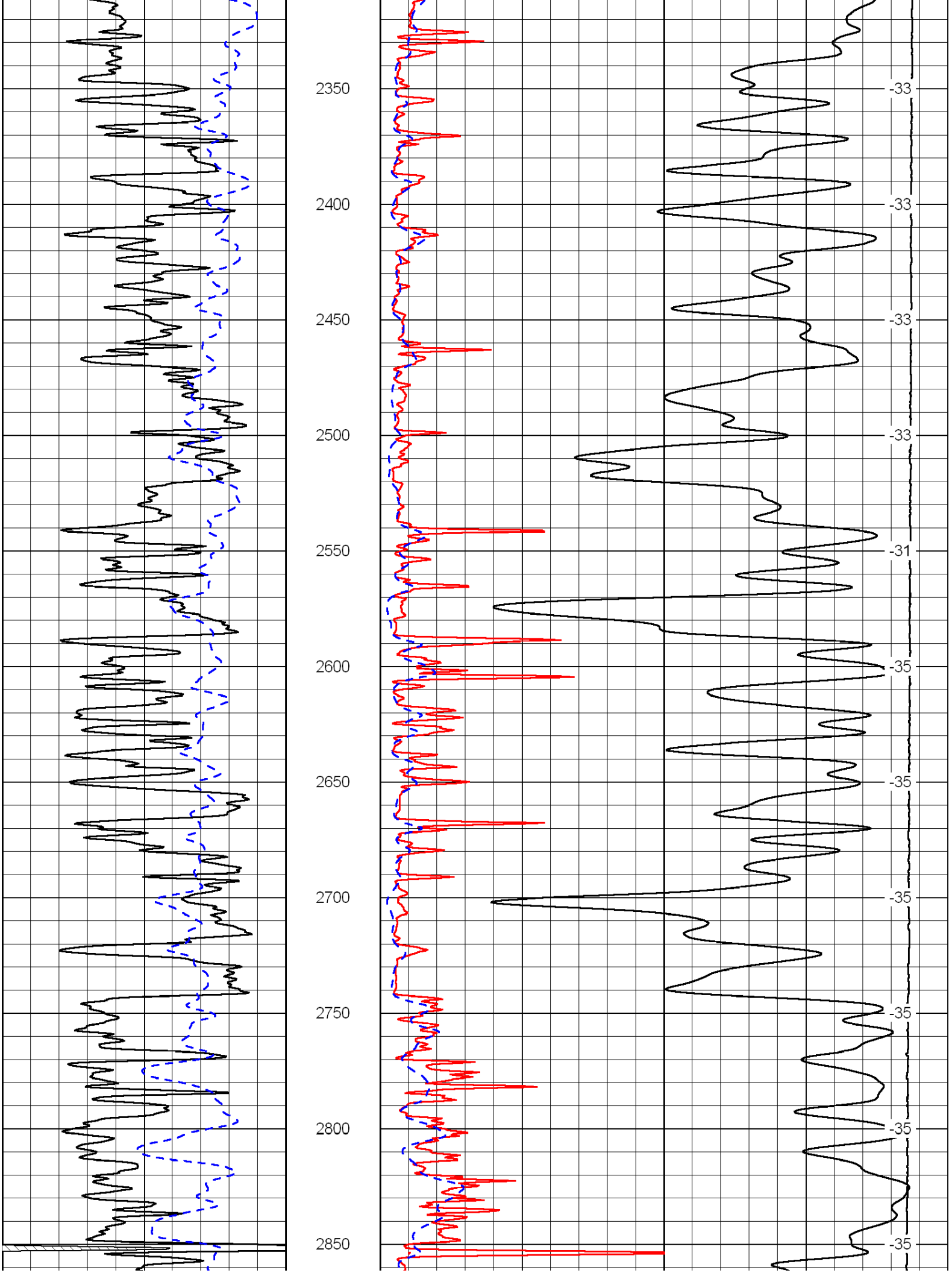
Russell, North to Highway 281 and Highway 18 Intersection, 3 1/2 West to 182 Rd, North to curve, 1/2 East, 8 North to 220 Dr, 2 East, 5 1/2 North on 200th Avenue to T, East 1/4, North to Gate, North Into

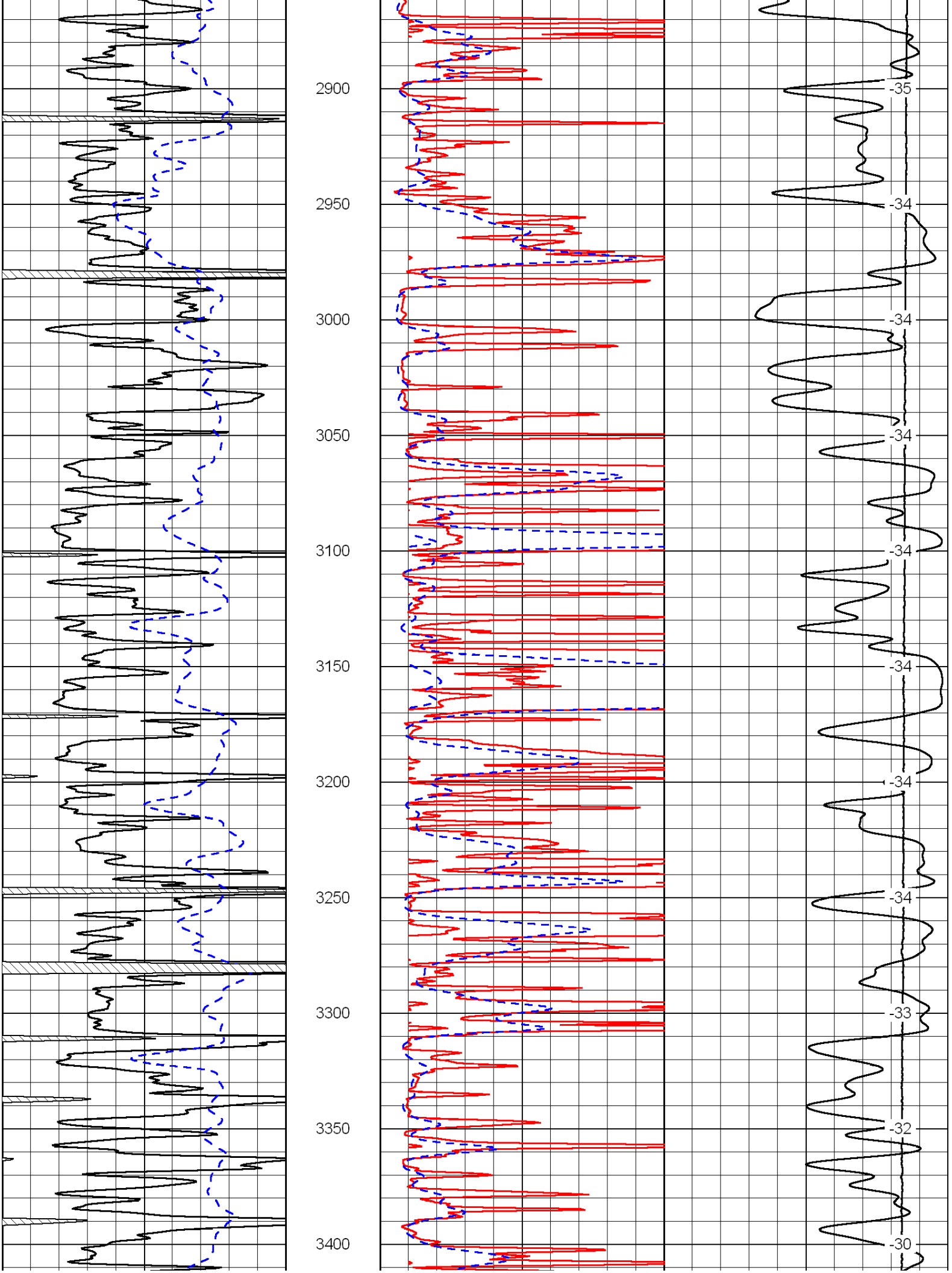
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Presentation Format:	dil2in
Dataset Creation:	Thu Sep 02 17:15:23 2010
Charted by:	Depth in Feet scaled 1:600

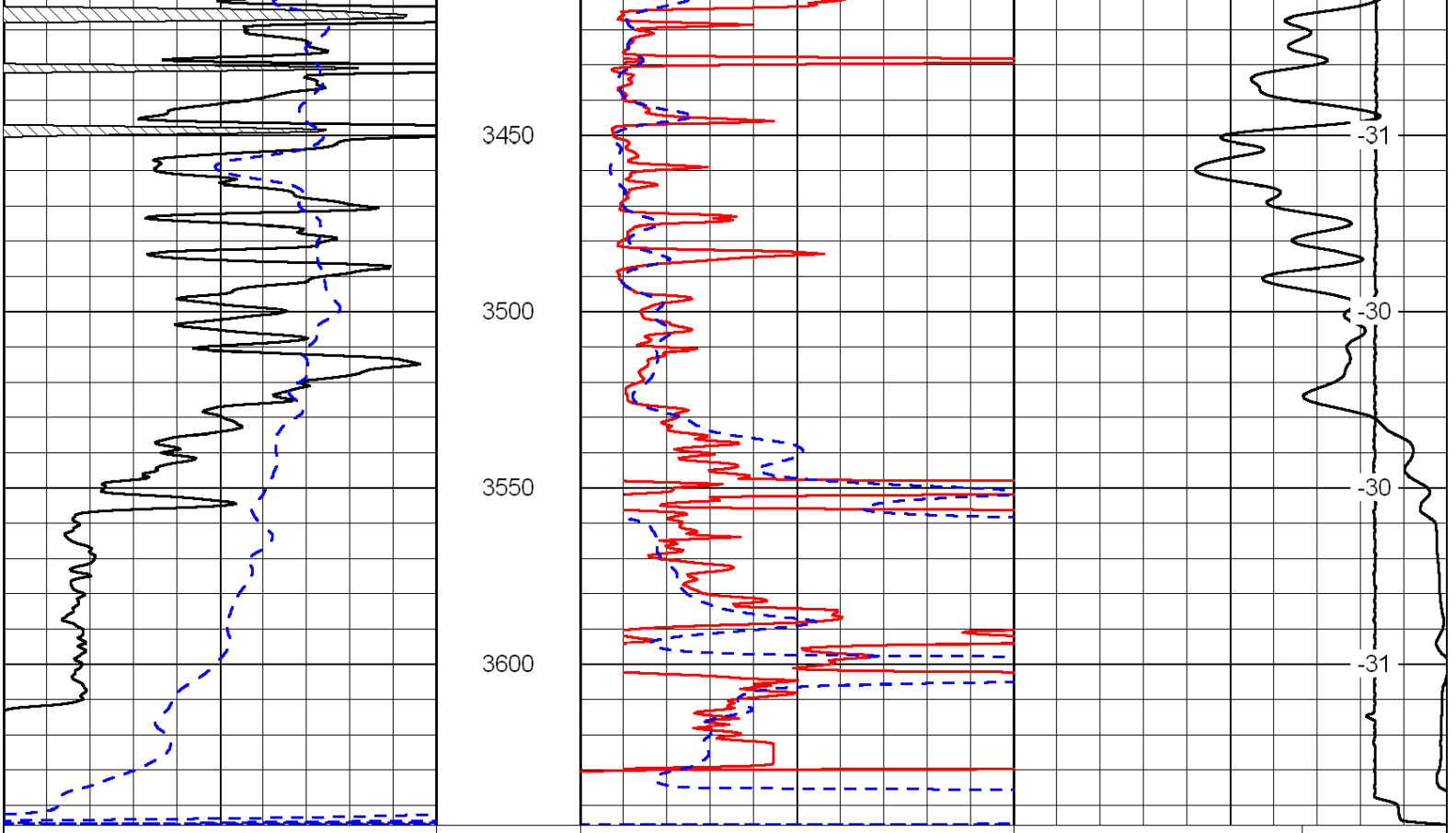

0 Gamma Ray 150
-200 SP (mV) 0
0 Shallow Resistivity 50
0 Deep Resistivity 50
1000 Conductivity 0
15000 Line Tension 0
50 Shallow Resistivity 500
50 Deep Resistivity 500
LSPD
750
800
850
900
950
1000
1050
1100
1150
1200
-40
-39
-86
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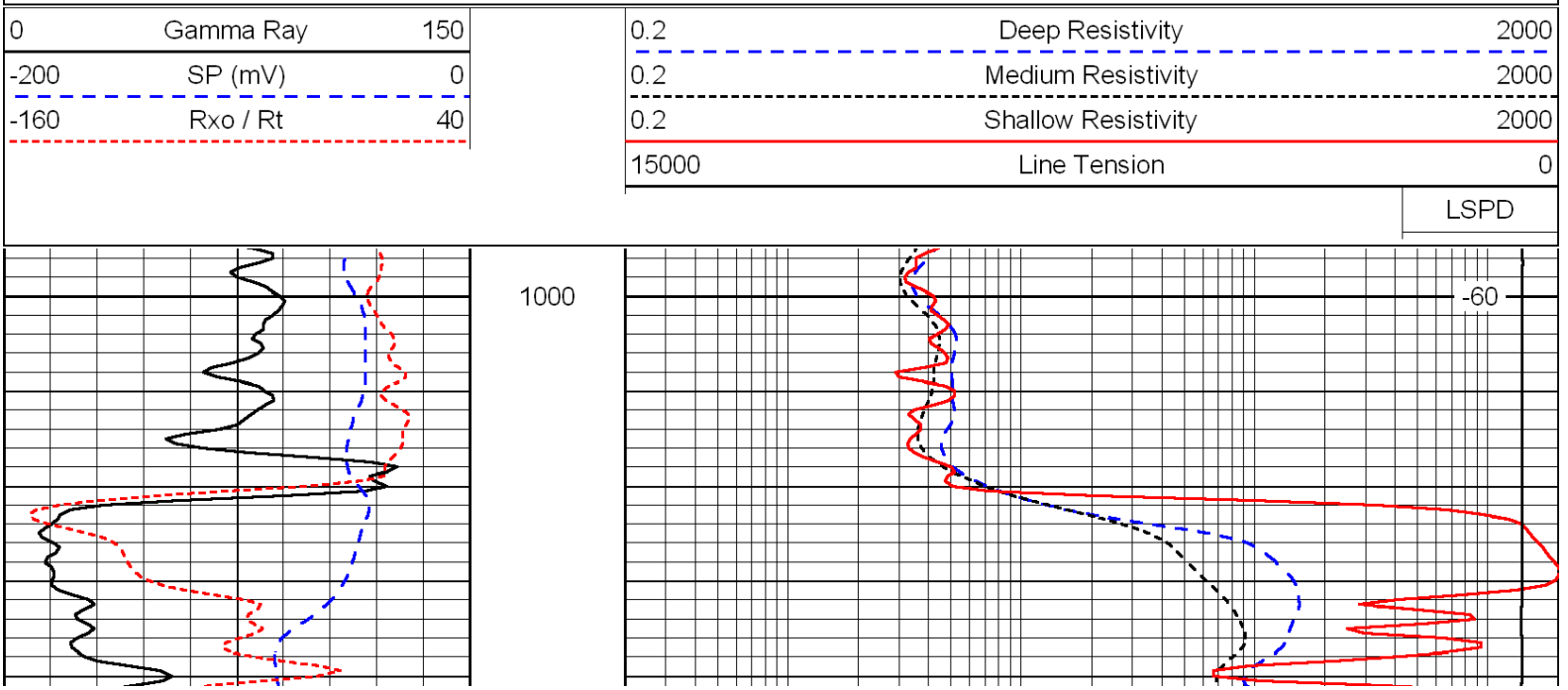

1800
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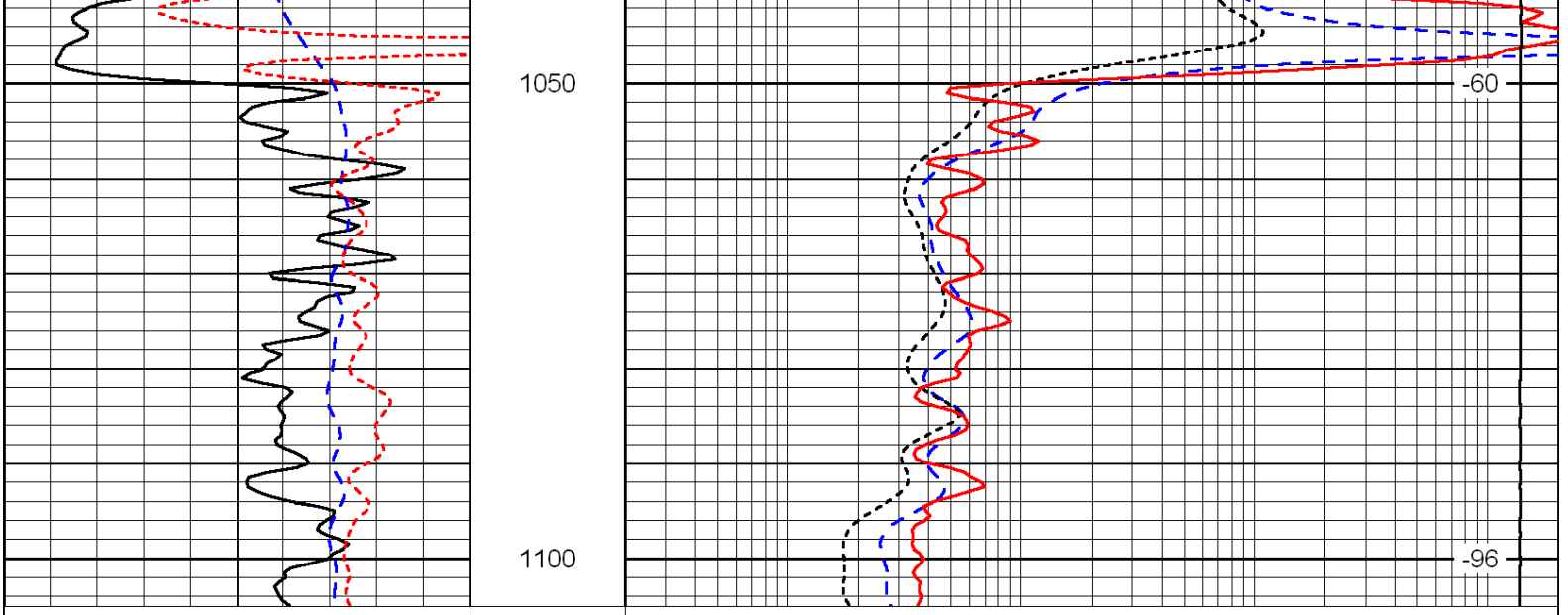

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3000
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-32
-30



Database File: c:\warrior\data\bruce oil_schultze no. 1\bruceoilhd.db
Dataset Pathname: dil/brcestck
Presentation Format: dil
Dataset Creation: Thu Sep 02 17:15:23 2010
Charted by: Depth in Feet scaled 1:240





0	Gamma Ray	150
-200	SP (mV)	0
-160	Rxo / Rt	40

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

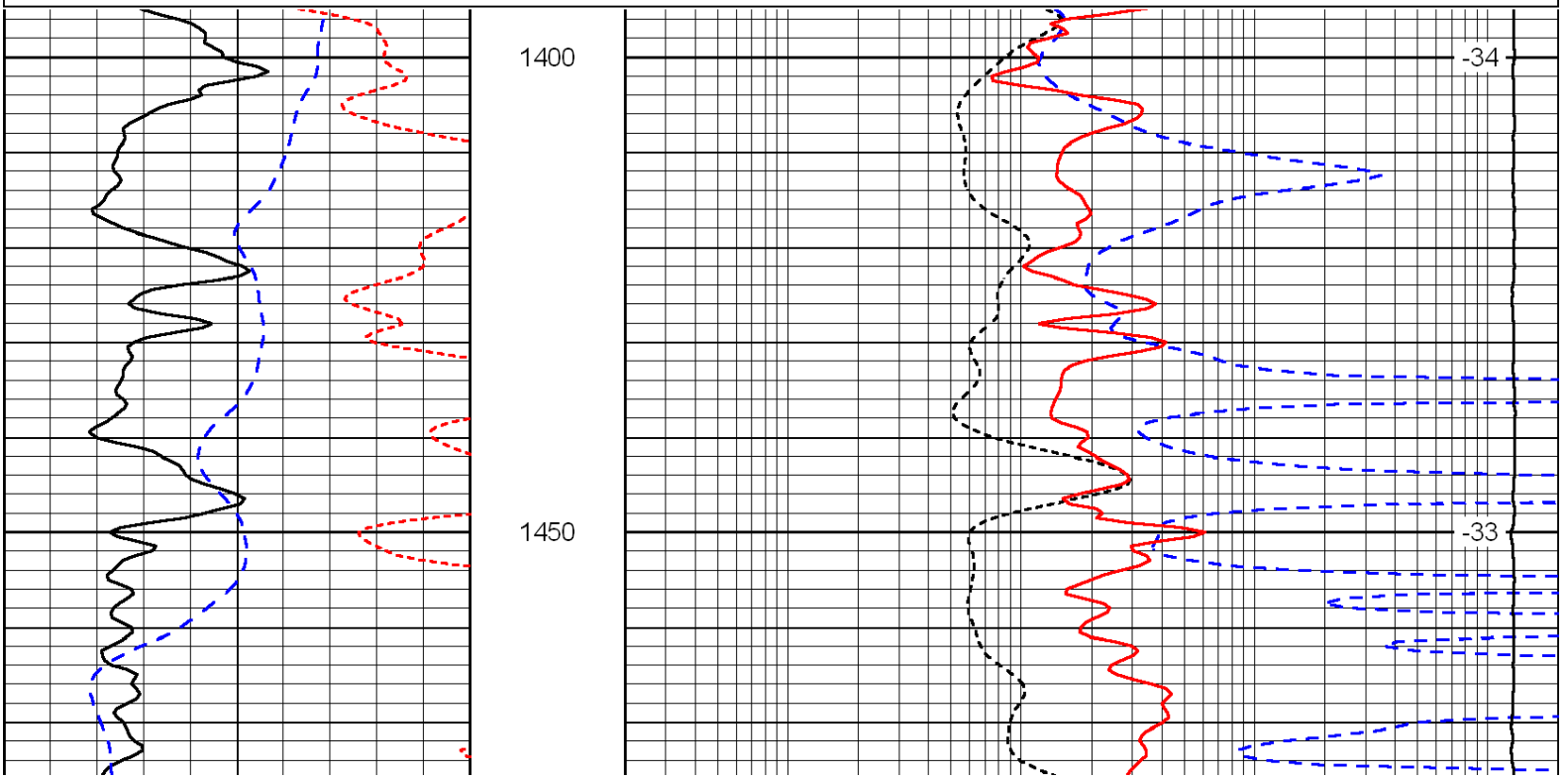
LSPD

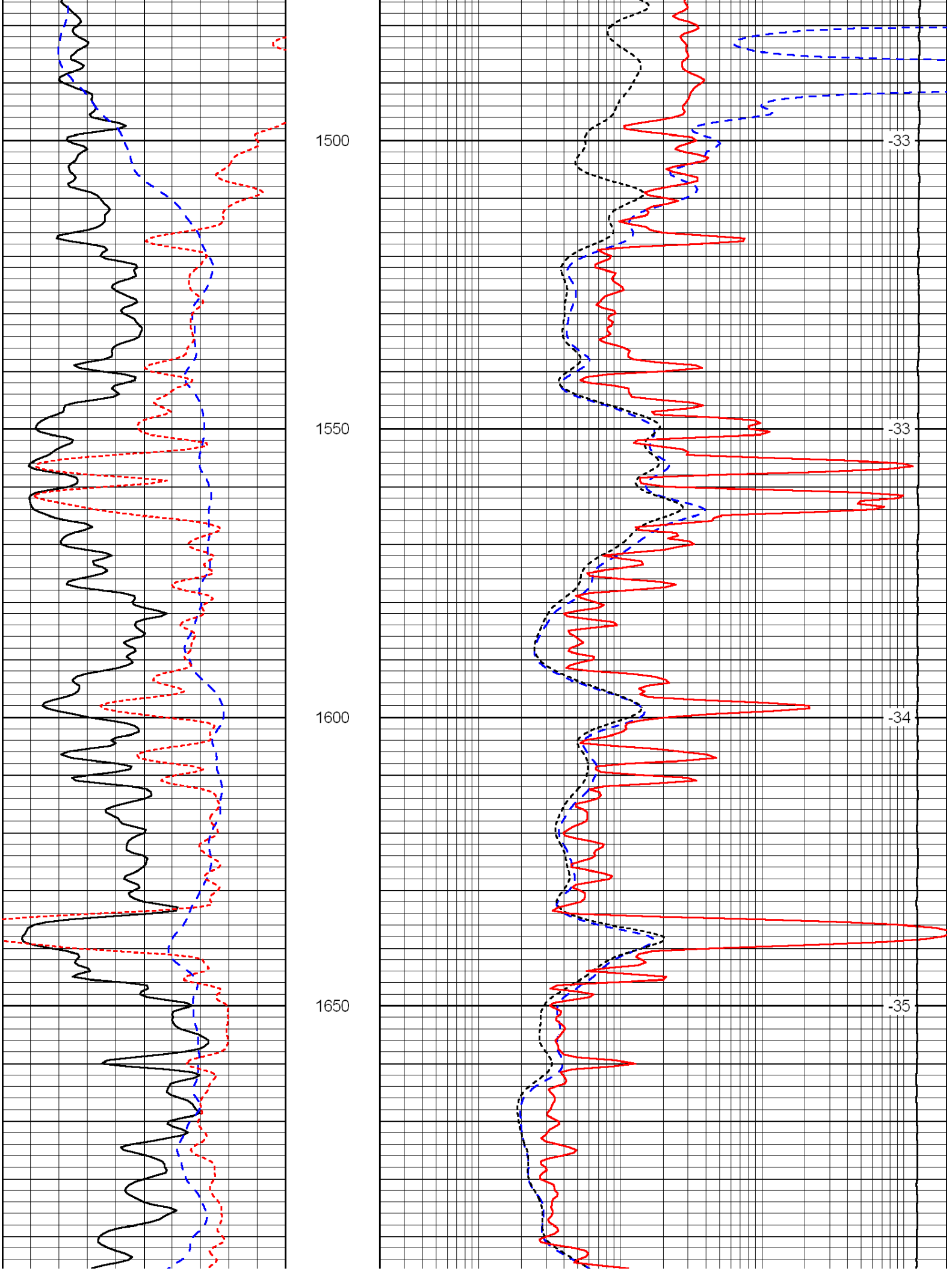
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Charted by:	Depth in Feet scaled 1:240

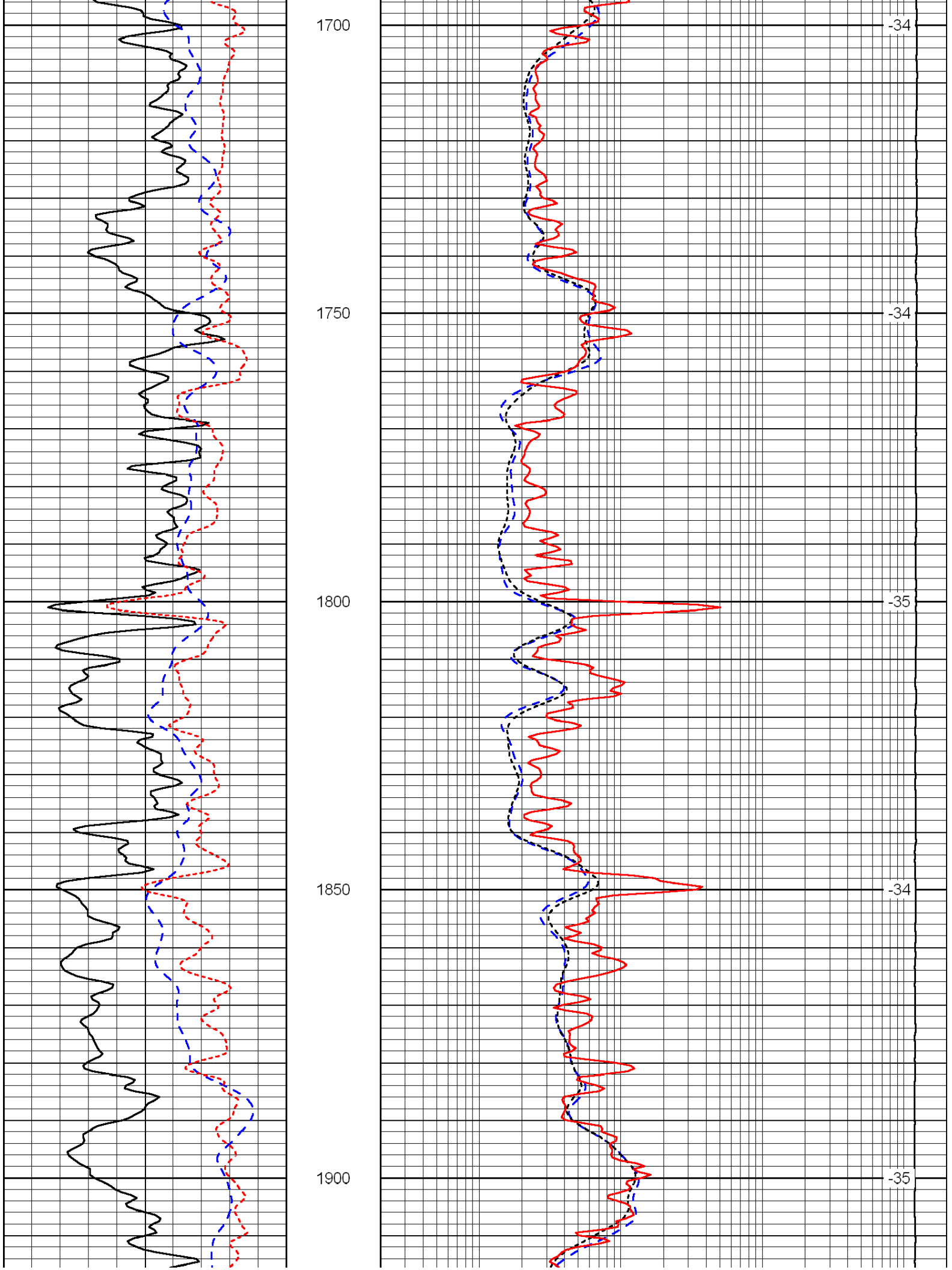
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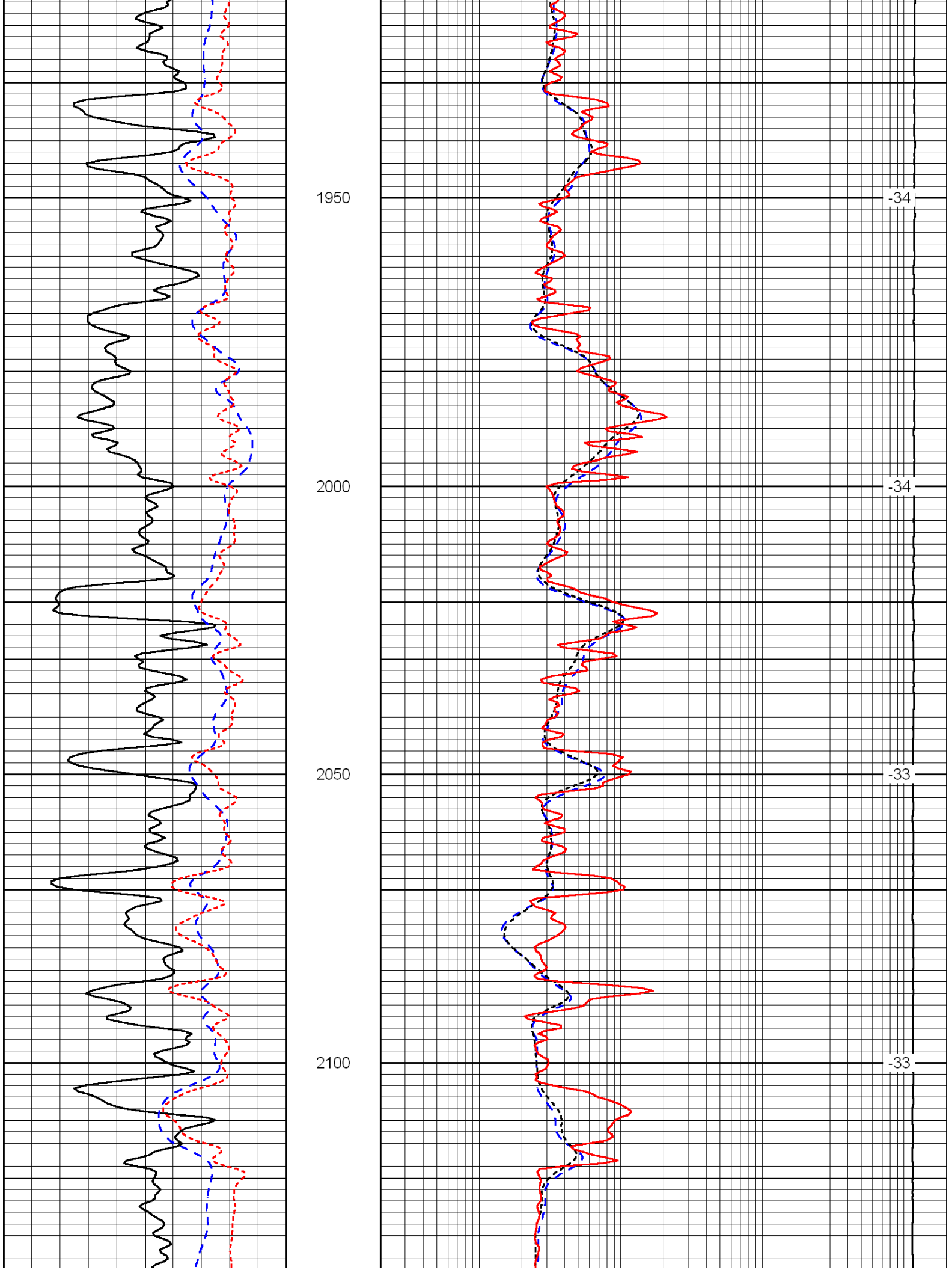
0.2	Deep Resistivity	2000
0.2	Medium Resistivity	2000
0.2	Shallow Resistivity	2000
15000	Line Tension	0

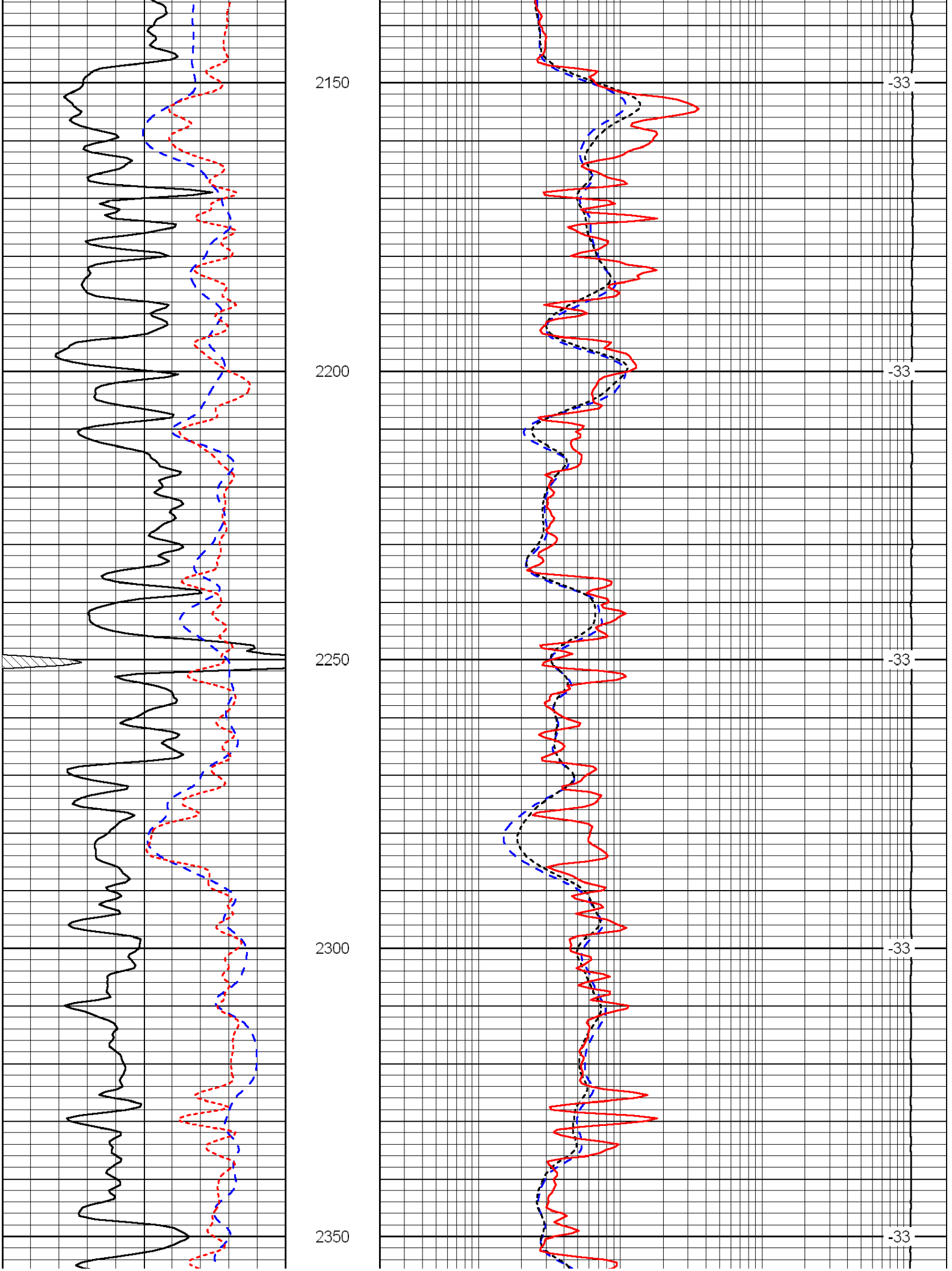
LSPD

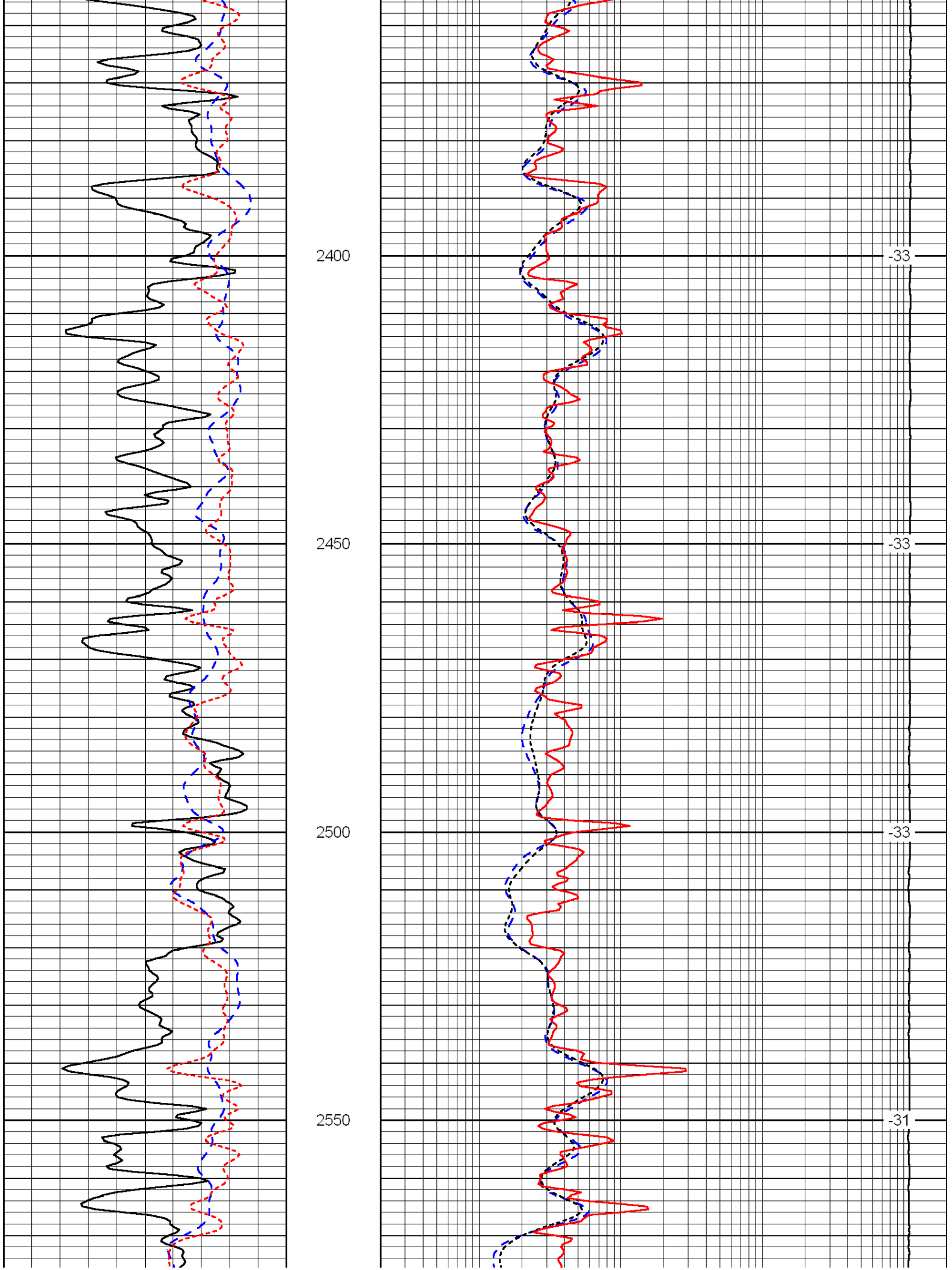


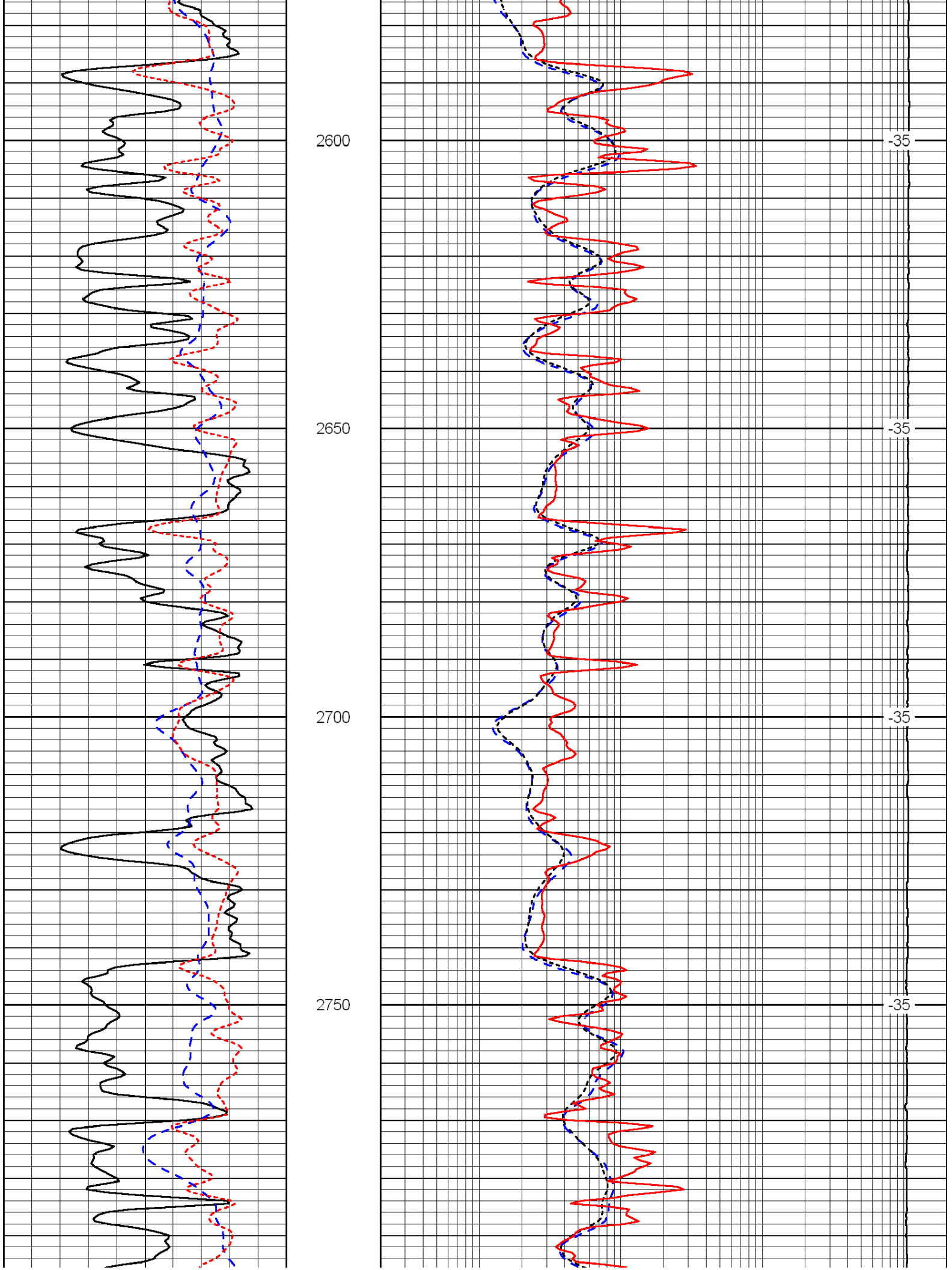

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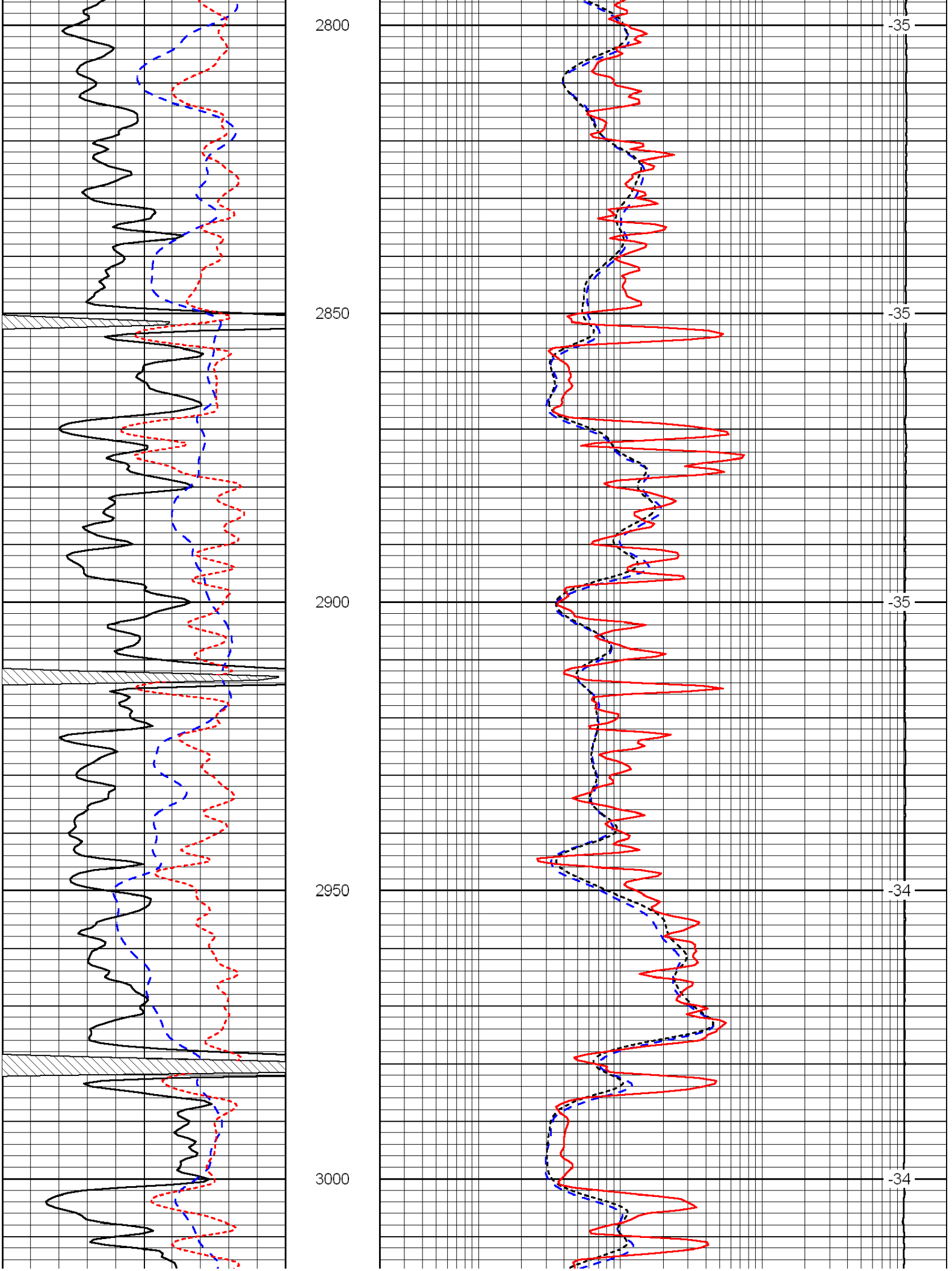

1700
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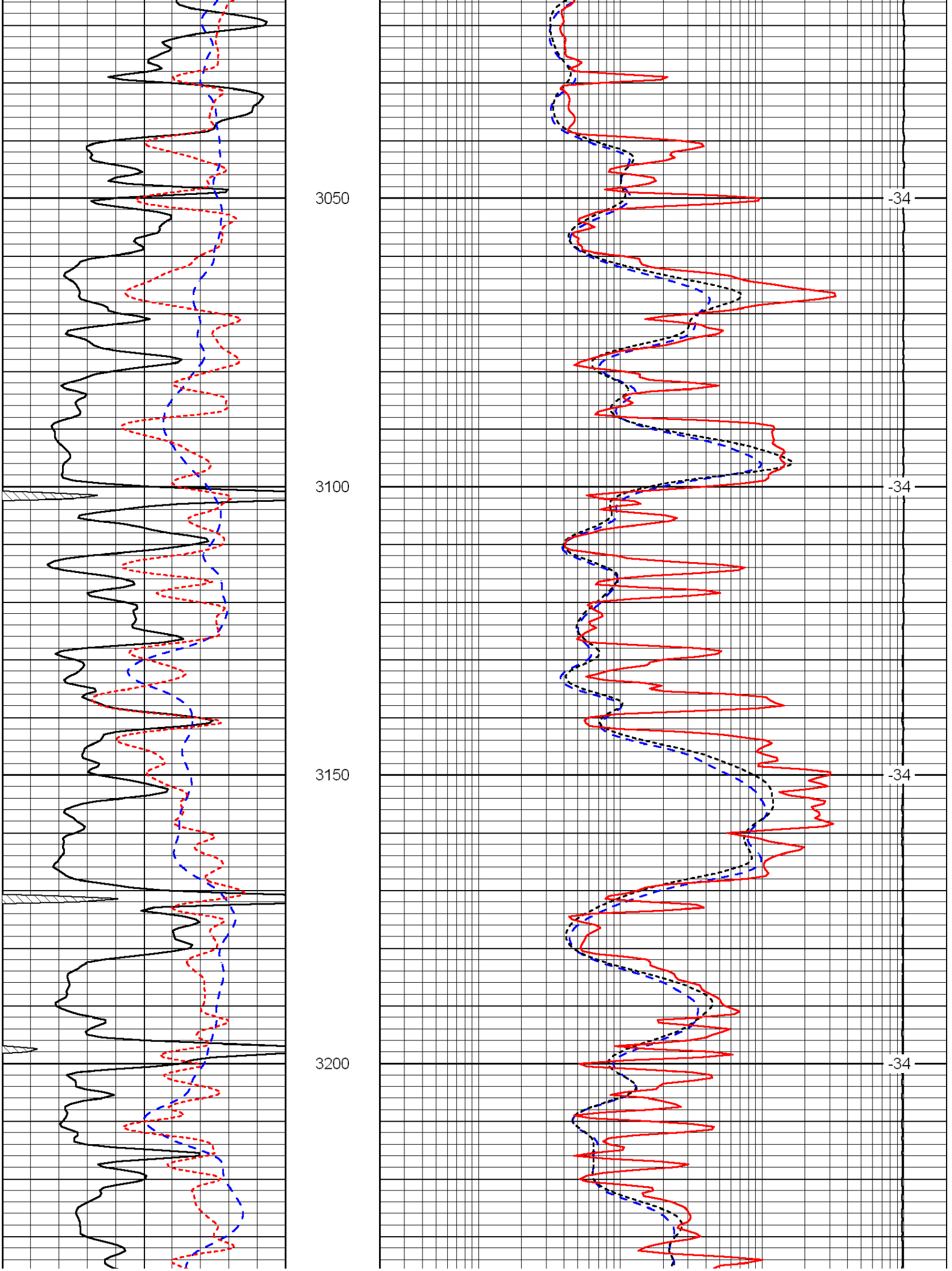

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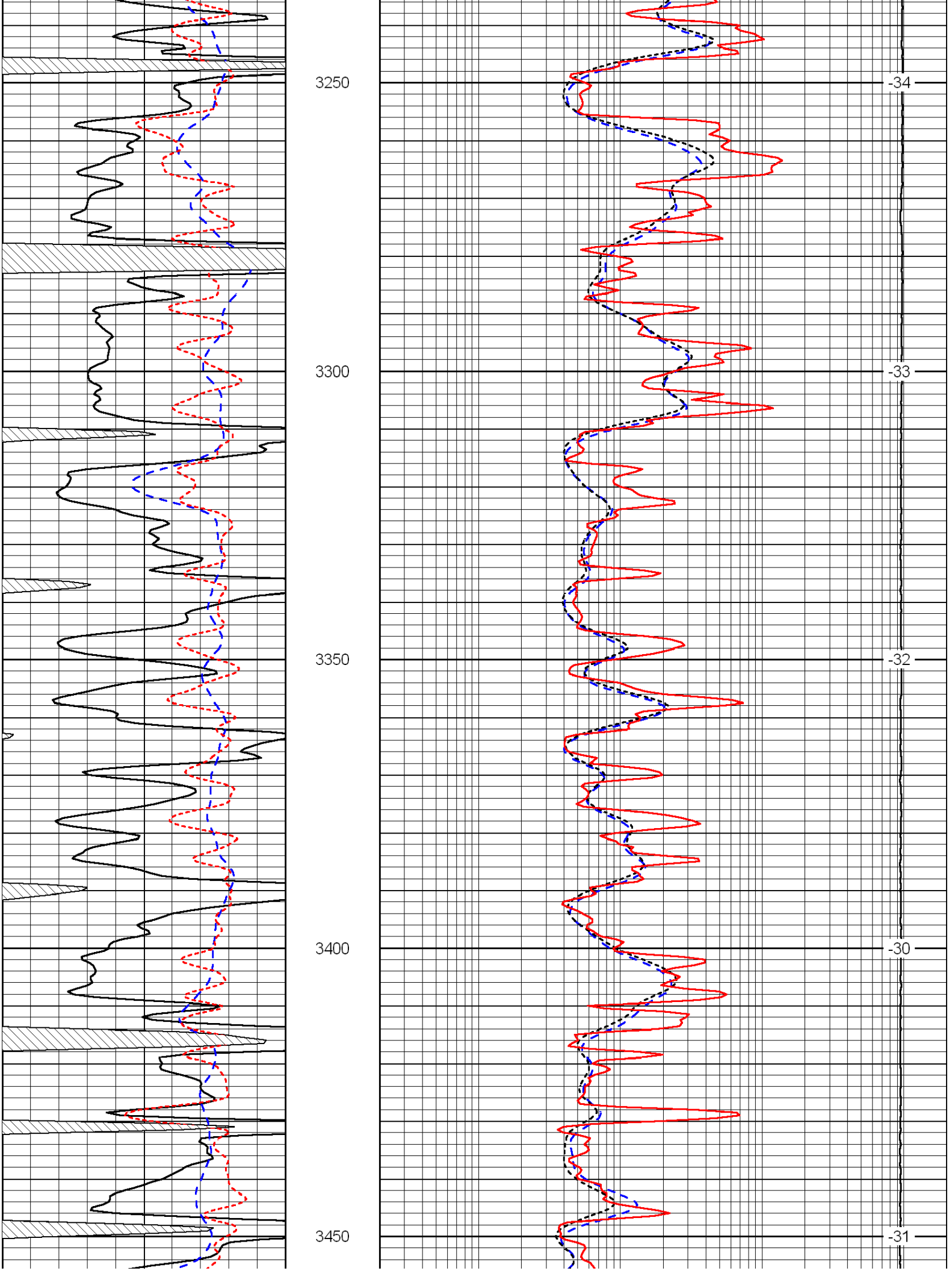

2150
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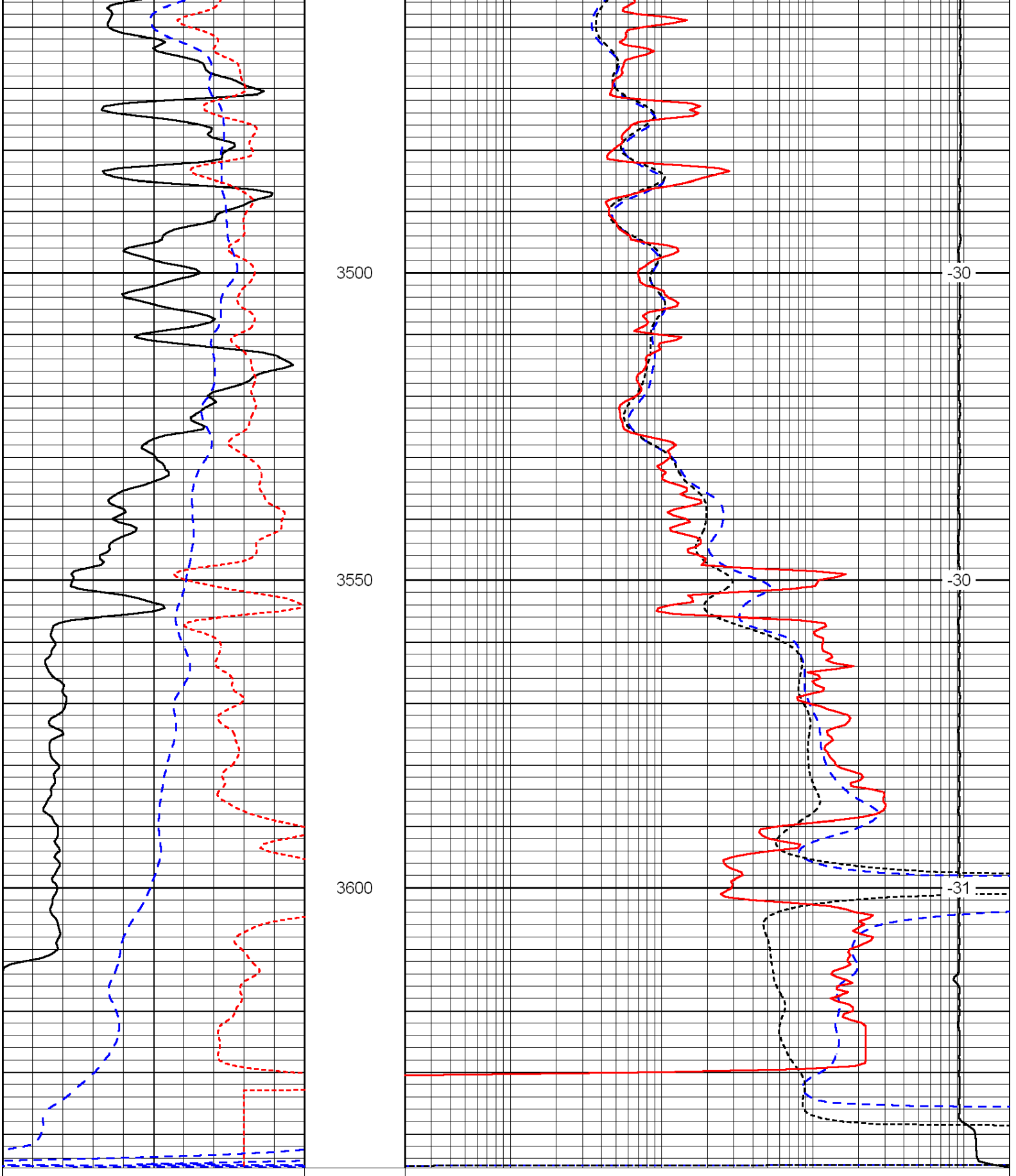

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