PIONEER
Pioneer Energy Services

Dual Induction Log

API No.	15-009-25936-00-00
Company	Bird Dog Oil, LLC
Well	Lakin-Sieker #1-23
Field	Lanterman
County	Barton
State	Kansas
Location	1335' FNL & 1000' FWL
Sec:	23
Twp:	19S
Rge:	11W
Other Services	CNL/CDL MEL/BHCS

Permanent Datum	Ground Level	Elevation 1775
Log Measured From	Kelly Bushing	10 Ft. Above Perm. Datum
Drilling Measured From	Kelly Bushing	

Elevation	
K.B.	1785
D.F.	
G.L.	1775

Date	2/2/2014		
Run Number	One		
Depth Driller	3450		
Depth Logger	3448		
Bottom Logged Interval	3447		
Top Log Interval	300		
Casing Driller	8.625 @ 309		
Casing Logger	309		
Bit Size	7.875		
Type Fluid in Hole	Chemical		
Salinity,ppm CL	8500		
Density / Viscosity	9.3 / 47		
pH / Fluid Loss	8.0 / 8.0		
Source of Sample	Flowline		
Rm @ Meas. Temp	0.30 @ 38		
Rmf @ Meas. Temp	0.23 @ 38		
Rmc @ Meas. Temp	0.41 @ 38		
Source of Rmf / Rmc	Charts		
Rm @ BHT	0.10 @ 111		
Operating Rig Time	5 Hours		
Max Rec. Temp. F	111		
Equipment Number	10		
Location	Hays		
Recorded By	D. Schmidt		
Witnessed By	Adam Nighswonger		

<<< Fold Here >>>

Comments

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

Ellinwood,
3 East to 140 Rd, 2 1/2 North,
East & North into

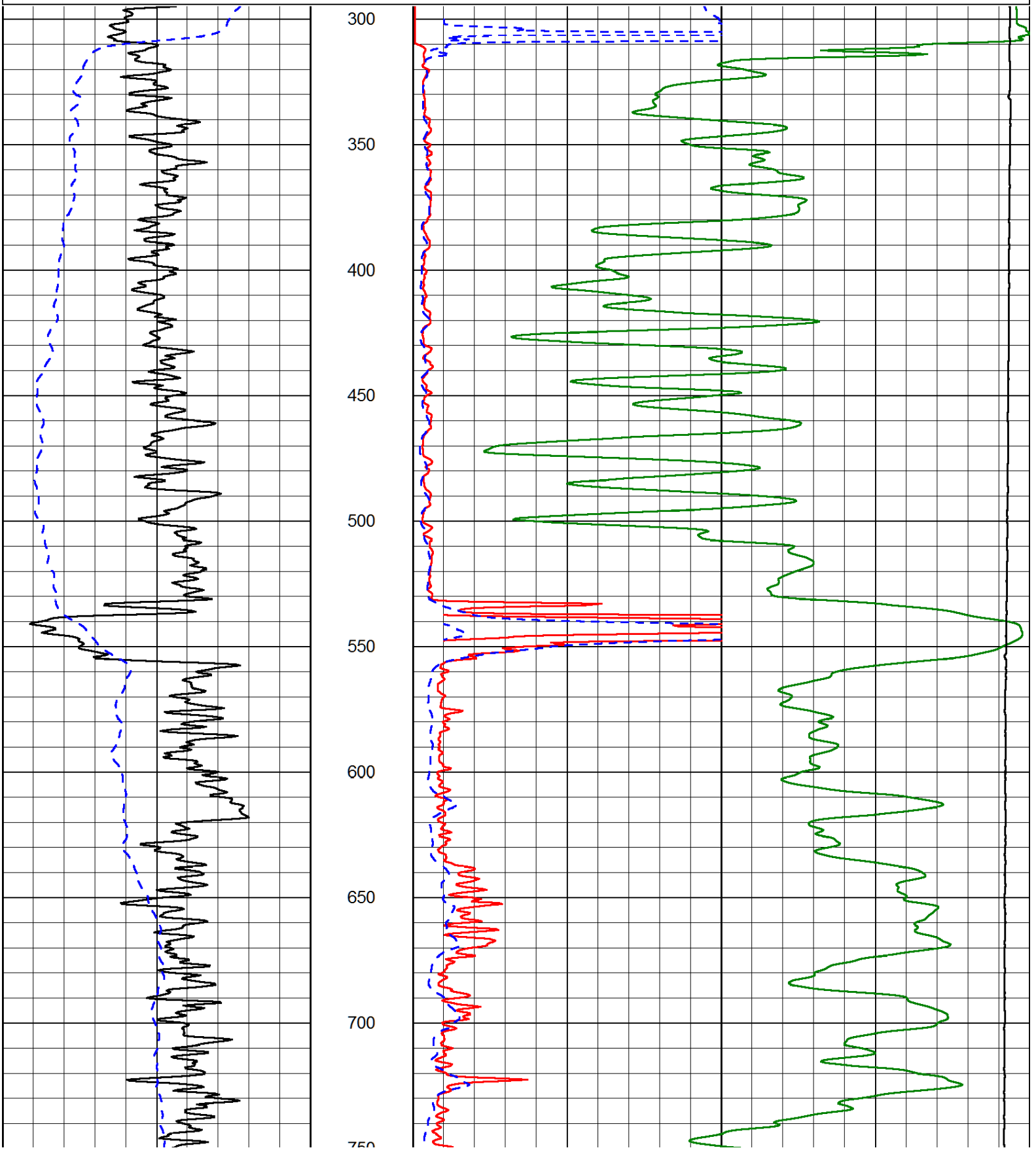
Database File:	birddog_020214hd.db
Dataset Pathname:	dil/bdstck
Presentation Format:	dil2in
Dataset Creation:	Sun Feb 02 05:42:50 2014
Charted by:	Depth in Feet scaled 1:600

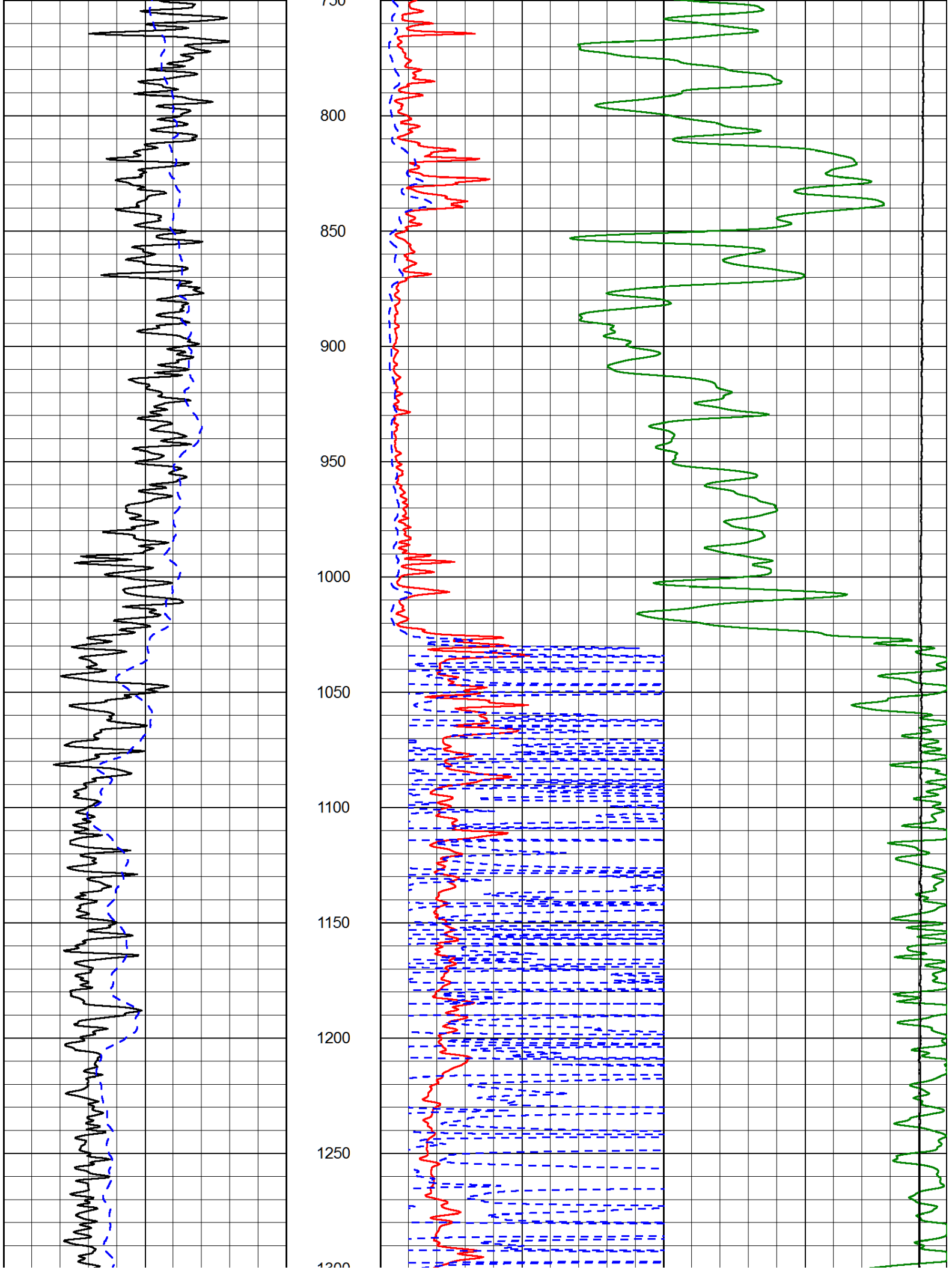
Charted by: Depth in Feet scaled 1:600

0	Gamma Ray (GAPI)	150
-200	SP (mV)	0

0	Shallow Resistivity (Ohm-m)	50
0	Deep Resistivity (Ohm-m)	50
1000	Conductivity (Ohm-m)	0
15000	Line Tension (lb)	0

	Shallow Resistivity	
50	(Ohm-m)	500
50	Deep Resistivity (Ohm-m)	500

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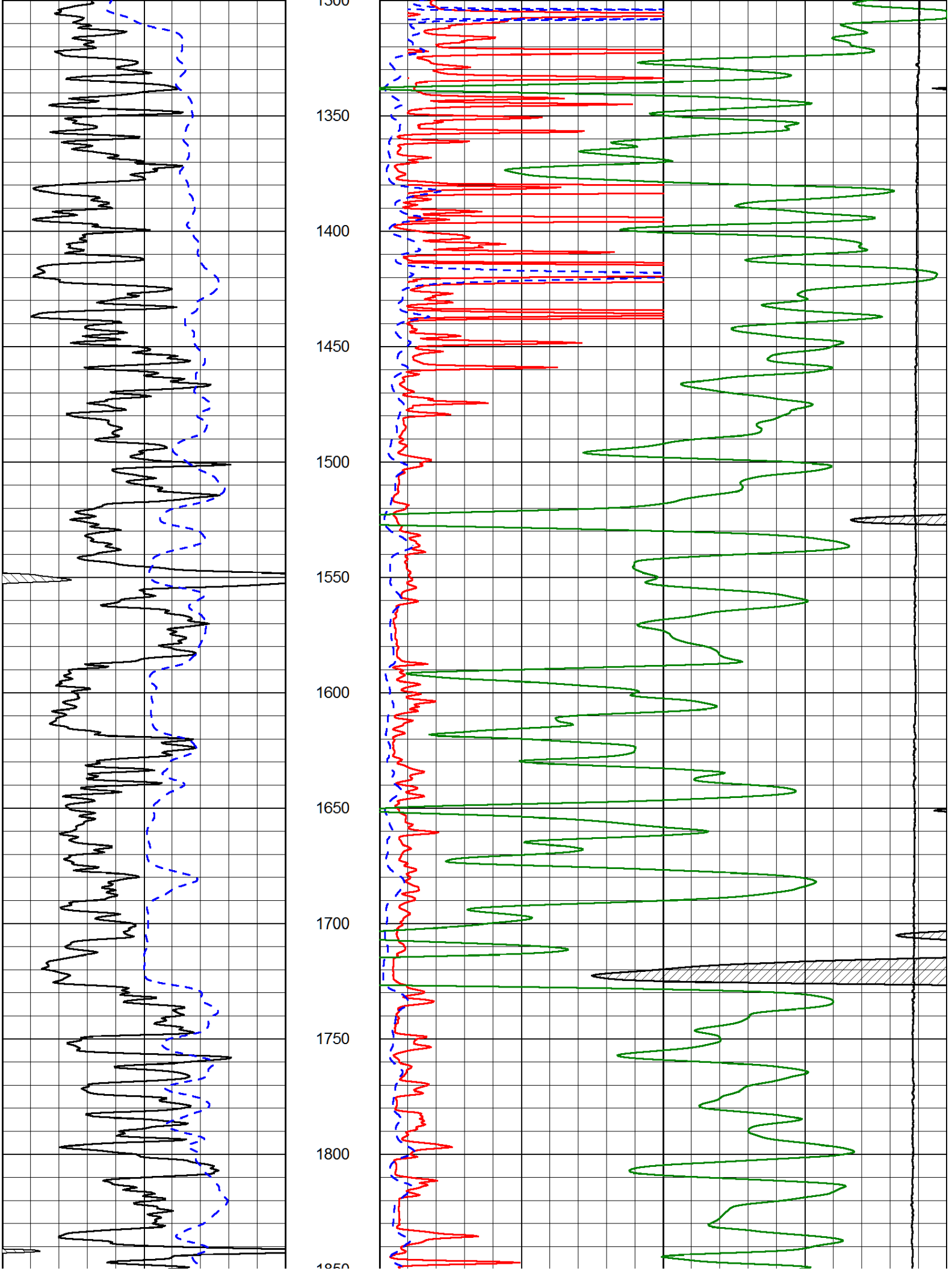
850
900
950
1000
1050
1100
1150
1200
1250
1300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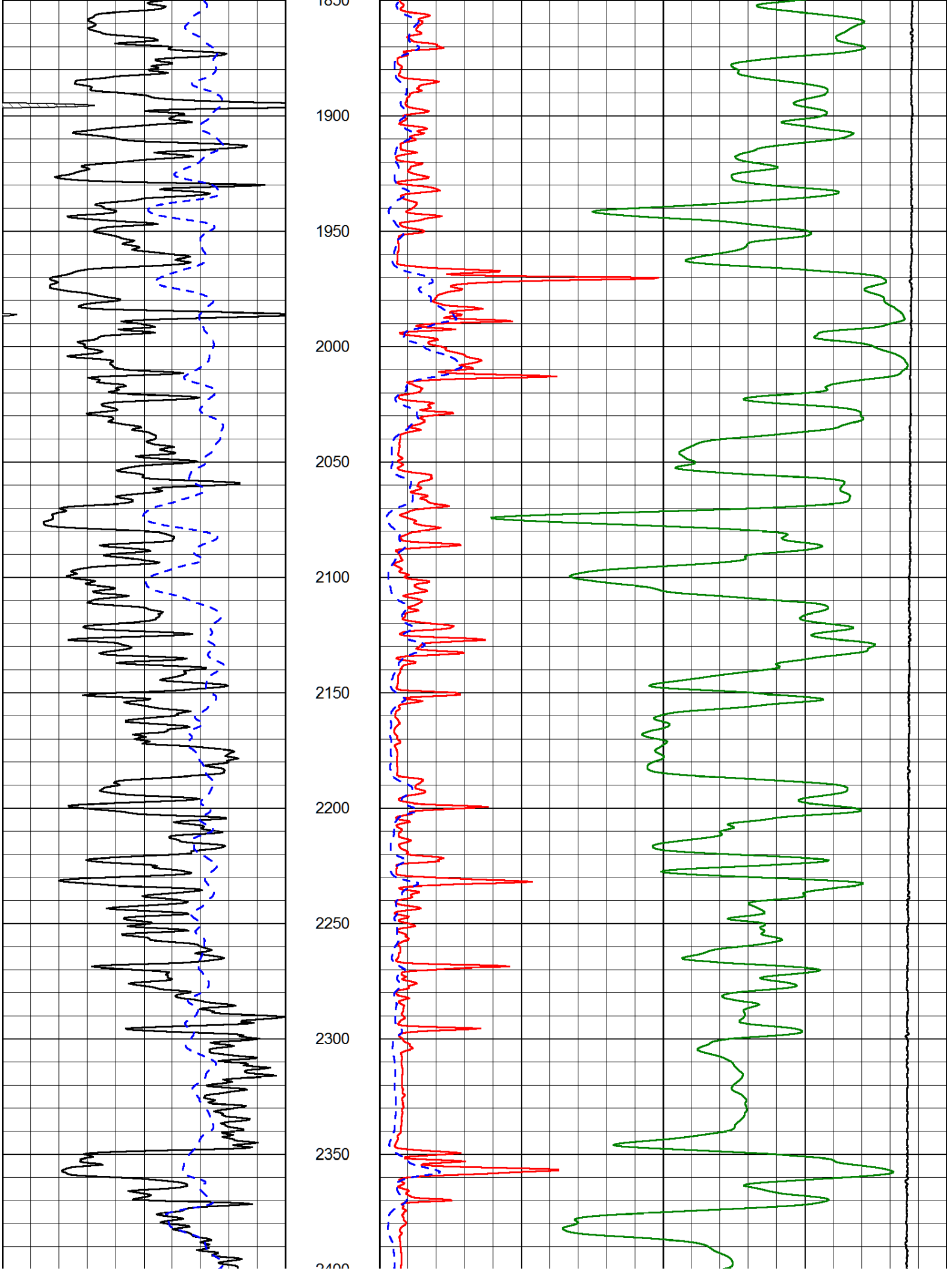
1400
1450
1500
1550
1600
1650
1700
1750
1800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2000
2050
2100
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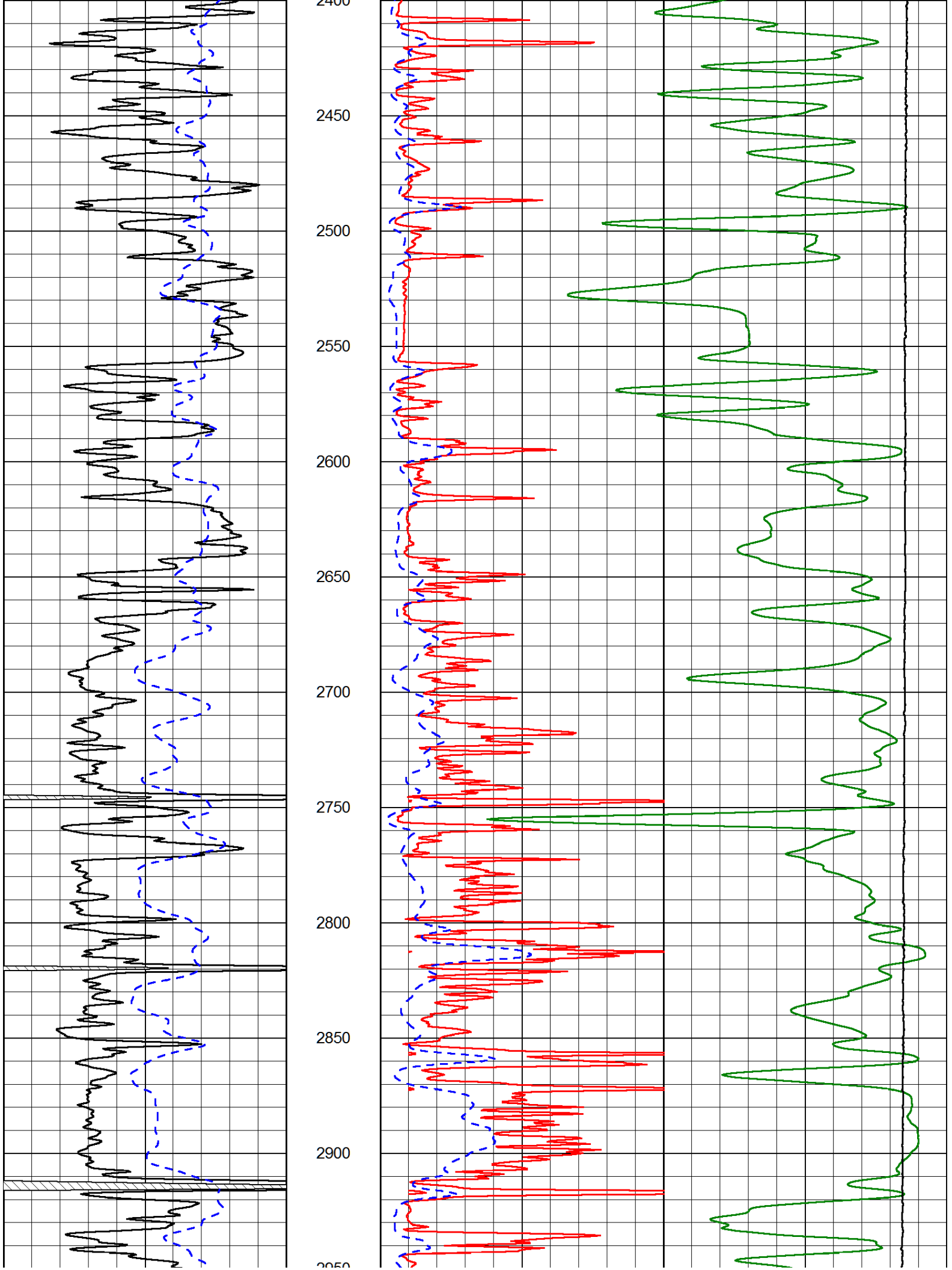
2200
2250
2300
2350
2400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2500
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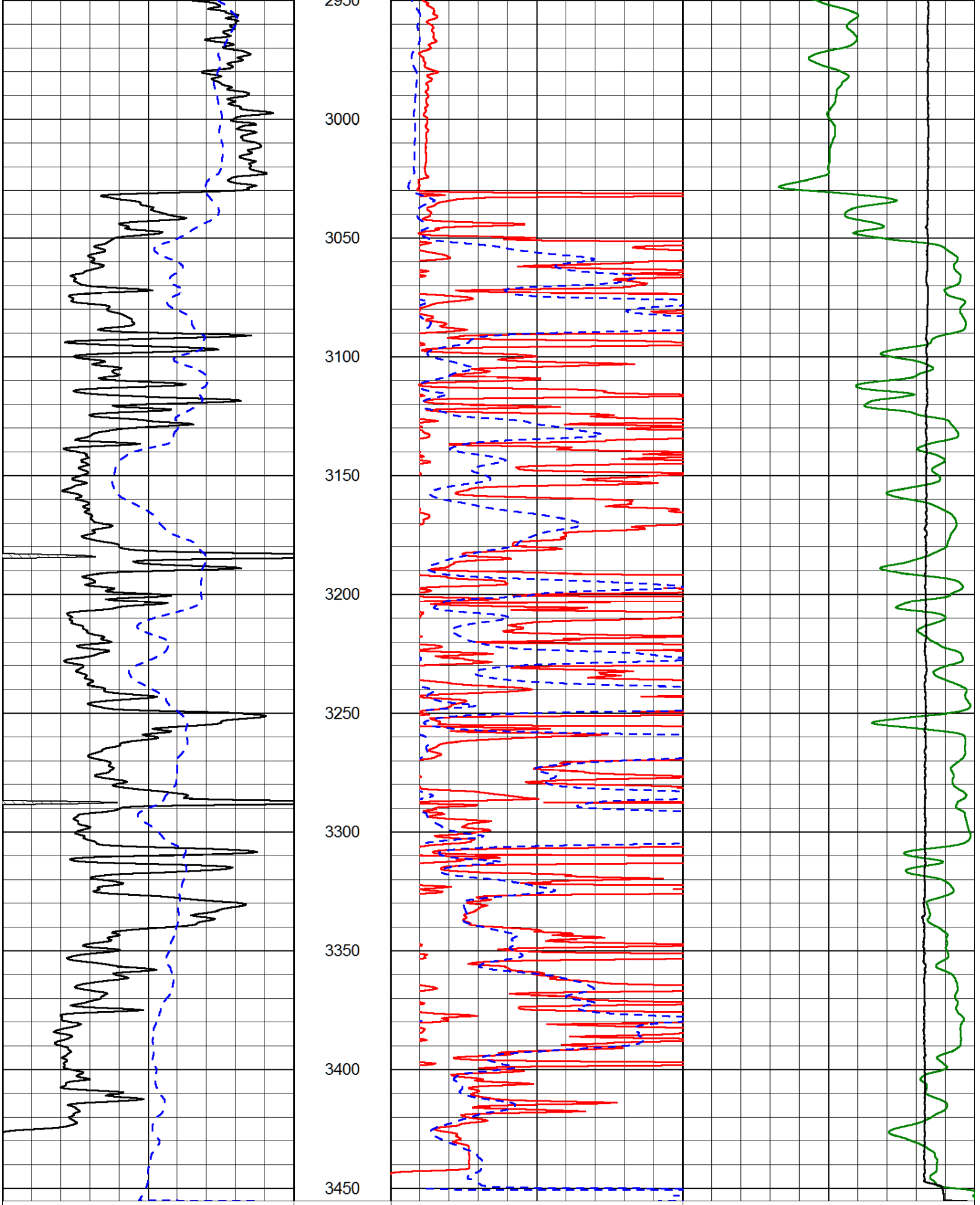
2600
2650
2700
2750
2800
2850
2900
2950


3000
3050
3100
3150
3200
3250
3300
3350
3400
3450
0 Gamma Ray (GAPI) 150
-200 SP (mV) 0
0 Shallow Resistivity (Ohm-m) 50
0 Deep Resistivity (Ohm-m) 50
1000 Conductivity (Ohm-m) 0
15000 Line Tension (lb) 0

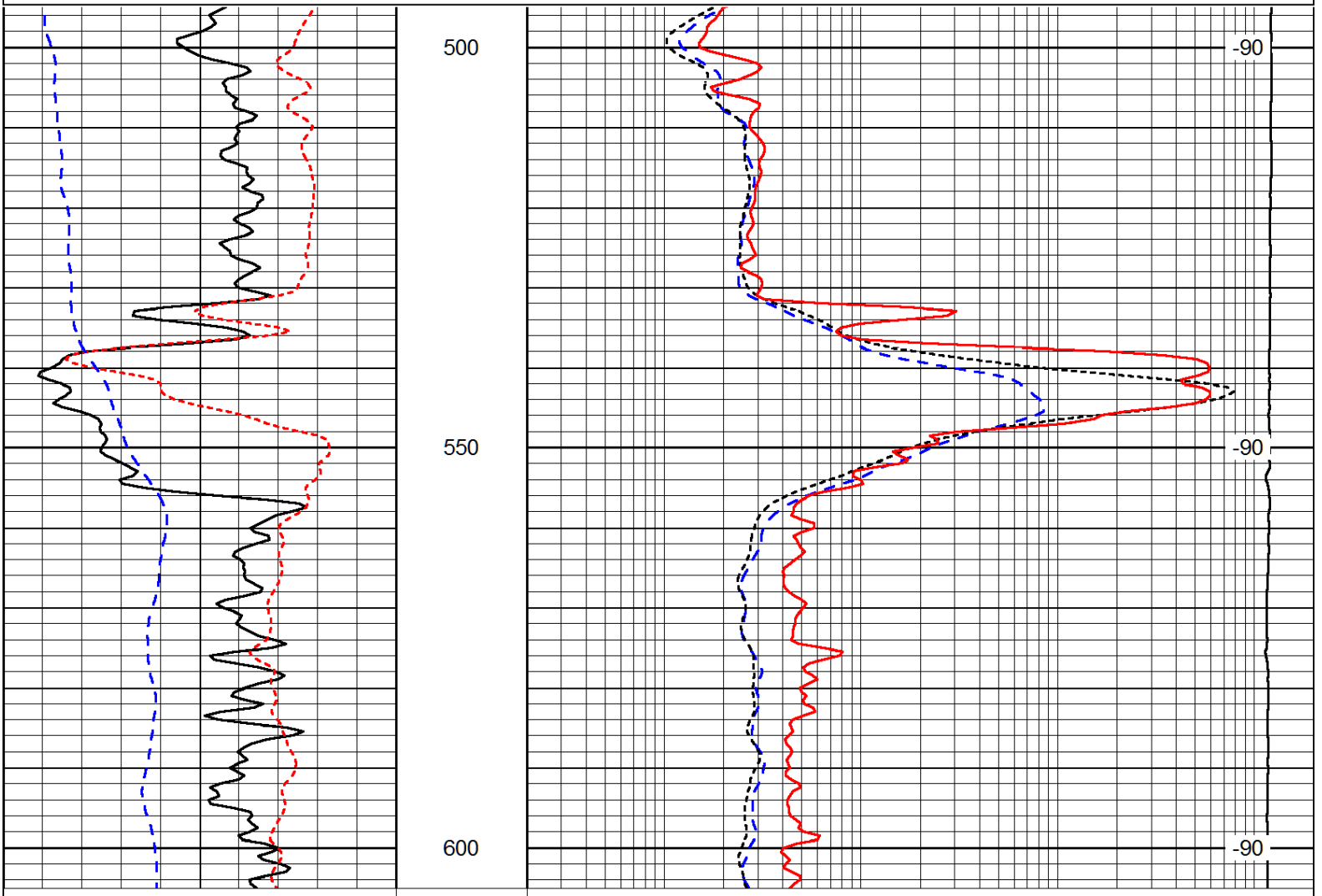
	Shallow Resistivity	
50	(Ohm-m)	500
50	Deep Resistivity (Ohm-m)	500

Database File: birddog_020214hd.db
Dataset Pathname: dil/bdstck
Presentation Format: dil
Dataset Creation: Sun Feb 02 05:42:50 2014
Charted by: Depth in Feet scaled 1:240

0	Gamma Ray (GAPI)	150
-160	RXO/RT	40
-200	SP (mV)	0

0.2	Deep Resistivity (Ohm-m)	2000
0.2	Medium Resistivity (Ohm-m)	2000
0.2	Shallow Resistivity (Ohm-m)	2000
10000	Line Tension (lb)	0

LSPD (ft/min)



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LSPD (ft/min)

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Dataset Creation:	Sun Feb 02 05:42:50 2014
Charted by:	Depth in Feet scaled 1:240

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-200	SP (mV)	0

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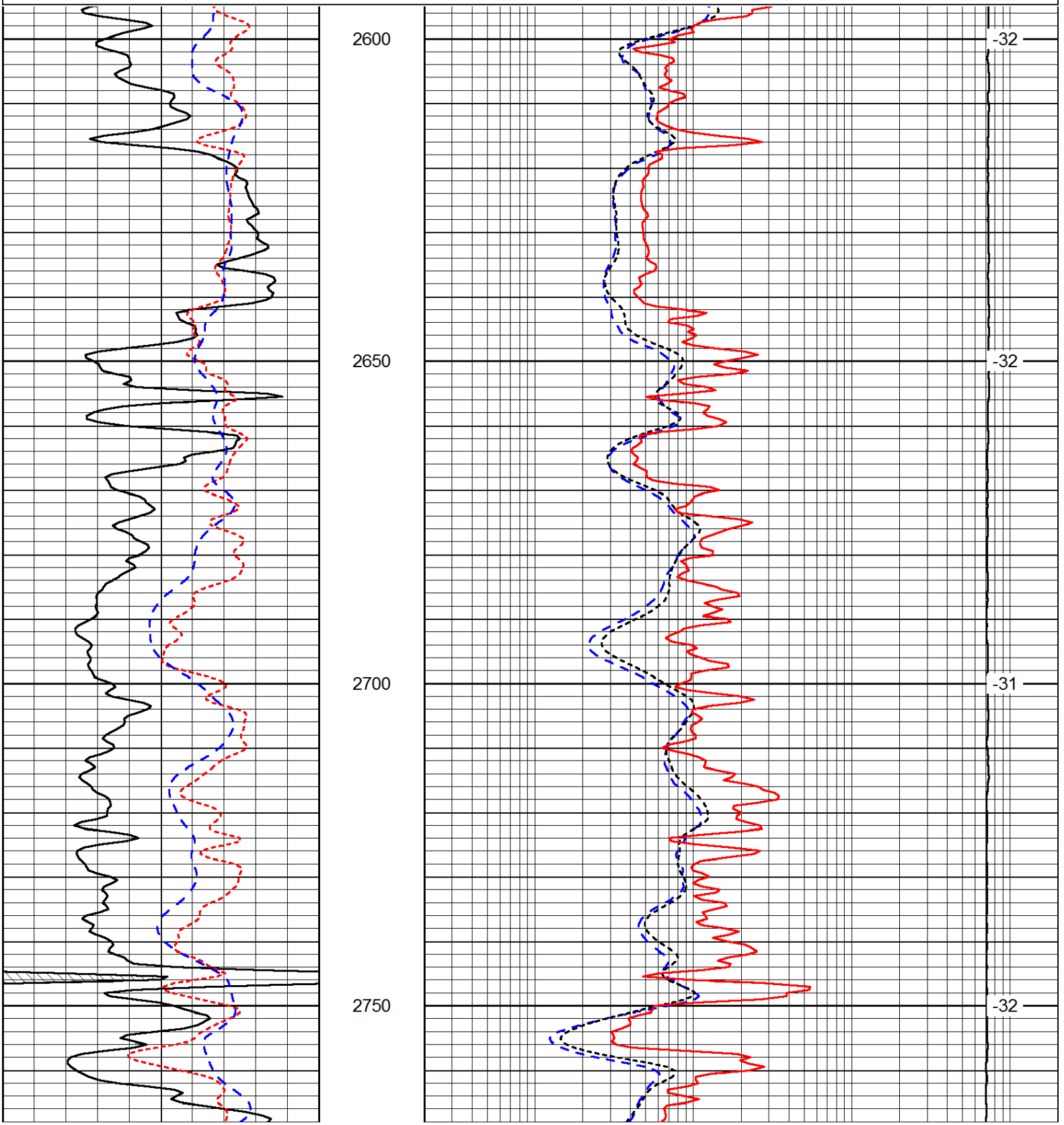
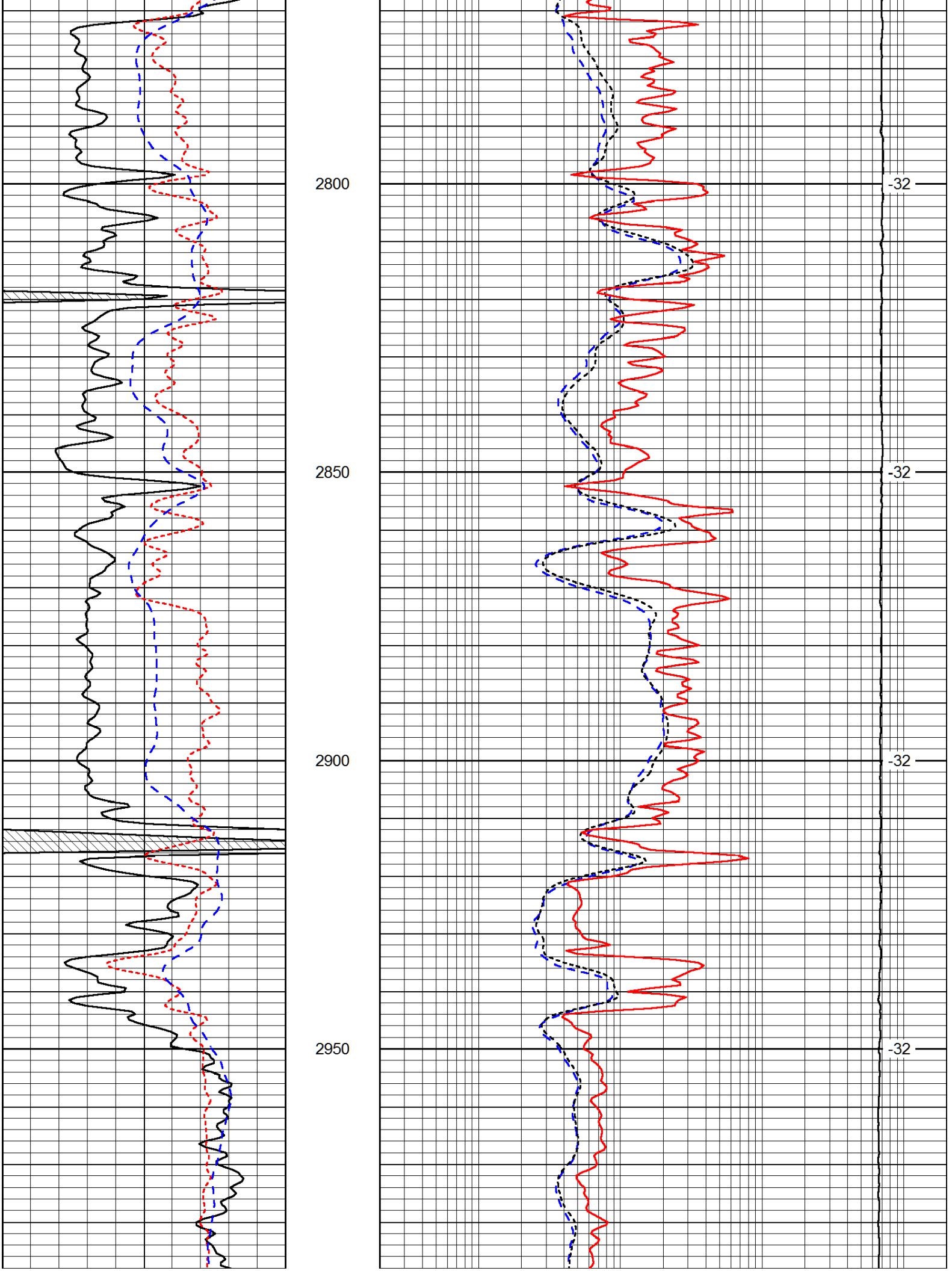
0.2	Medium Resistivity (Ohm-m)	2000
0.2	Shallow Resistivity (Ohm-m)	2000
10000	Line Tension (lb)	0

LSPD (ft/min)

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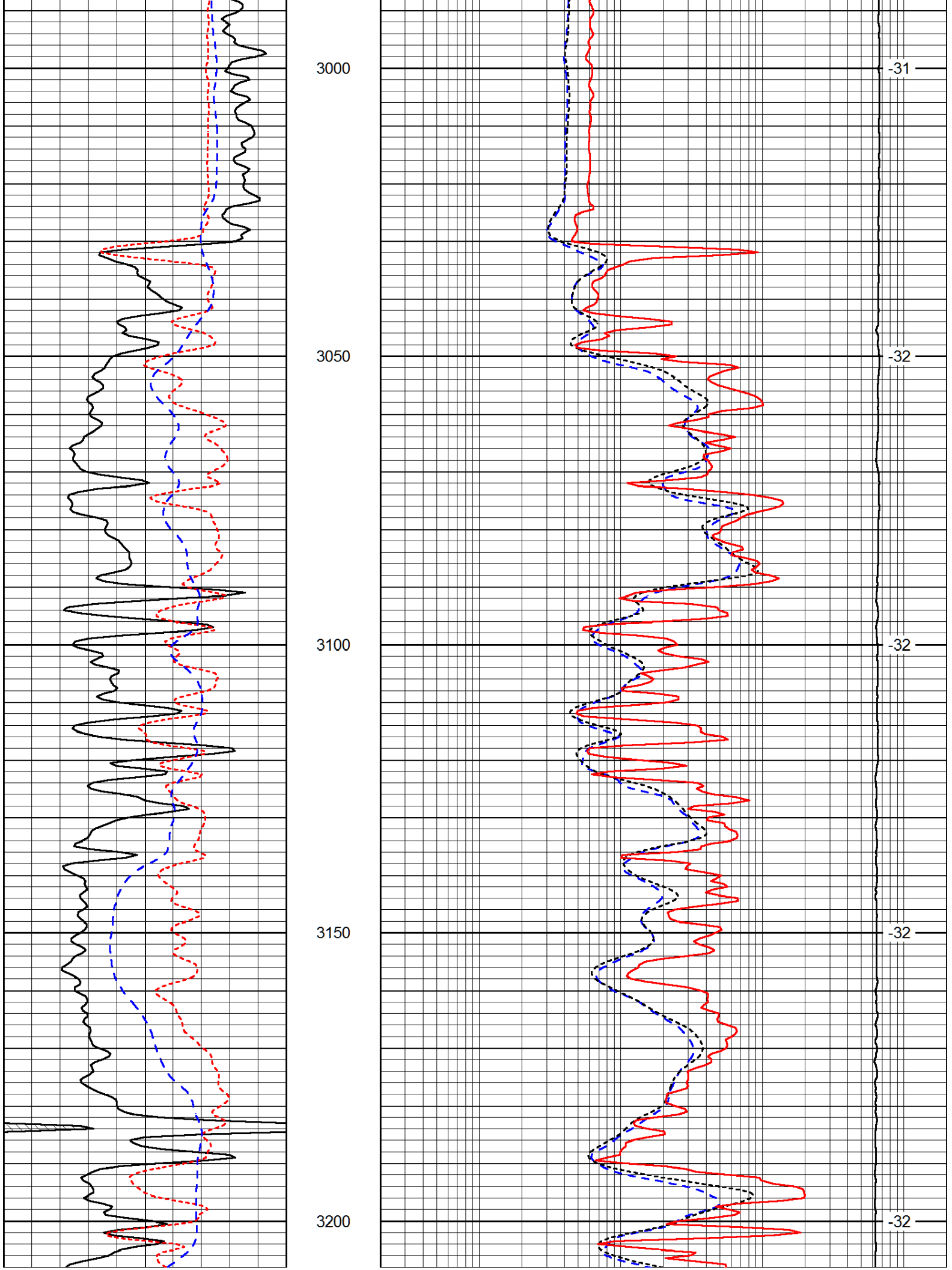
2850
2900
2950
-32
-32
-32
-32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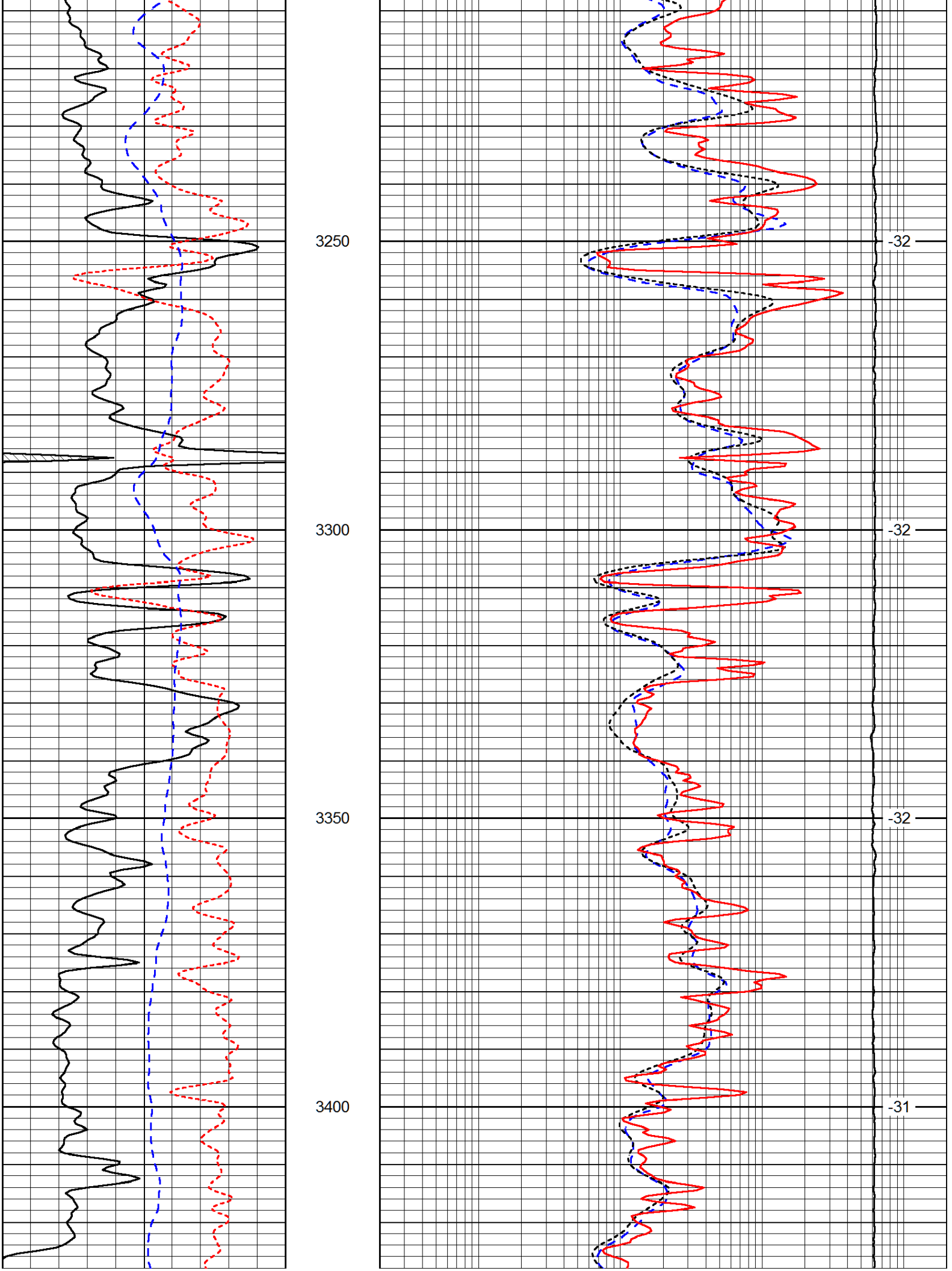
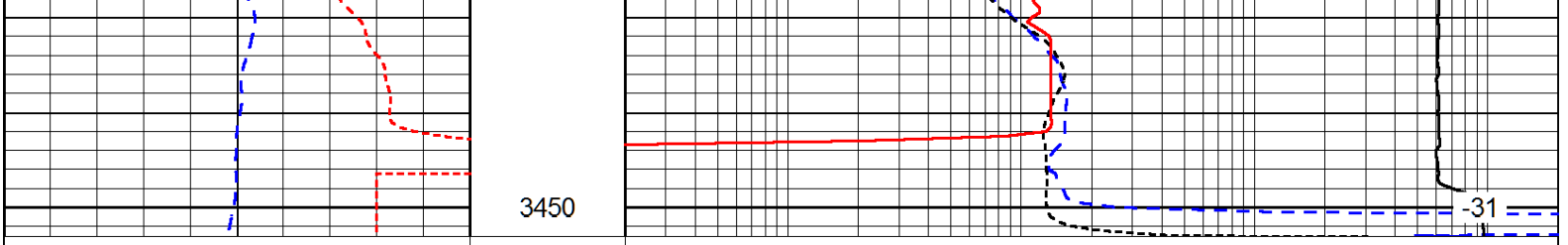
3050
3100
3150
3200
-31
-32
-32
-32
-32


3250
3300
3350
3400
-32
-32
-32
-31



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LSPD
(ft/min)