PIONEER

Pioneer Energy Services

Dual Induction Log

API No.

15-009-25939-00-00

Company Russell Oil, Inc.

Well Conner #13

Field Carroll

County Barton State Kansas

Location 875' FNL & 1600' FEL

Sec: 21 Twp: 17S Rge: 14W

Other Services
CNL/CDL
MEL

Elevation
K.B. 1907
D.F.
G.L. 1898

Permanent Datum Ground Level Elevation 1898
Log Measured From Kelly Bushing 9 Ft. Above Perm. Datum
Drilling Measured From Kelly Bushing

Date	2/7/2014		
Run Number	One		
Depth Driller	3470		
Depth Logger	3472		
Bottom Logged Interval	3471		
Top Log Interval	850		
Casing Driller	8.625 @ 874		
Casing Logger	878		
Bit Size	7.875		
Type Fluid in Hole	Chemical		
Salinity,ppm CL	11500		
Density / Viscosity	9.0	47	
pH / Fluid Loss	10.5	9.6	
Source of Sample	Flowline		
Rm @ Meas. Temp	0.51 @ 30		
Rmf @ Meas. Temp	0.38 @ 30		
Rmc @ Meas. Temp	0.69 @ 30		
Source of Rmf / Rmc	Charts		
Rm @ BHT	0.14 @ 113		
Operating Rig Time	3 Hours		
Max Rec. Temp. F	113		
Equipment Number	91		
Location	Hays		
Recorded By	D. Schmidt		
Witnessed By	Steven Angle		

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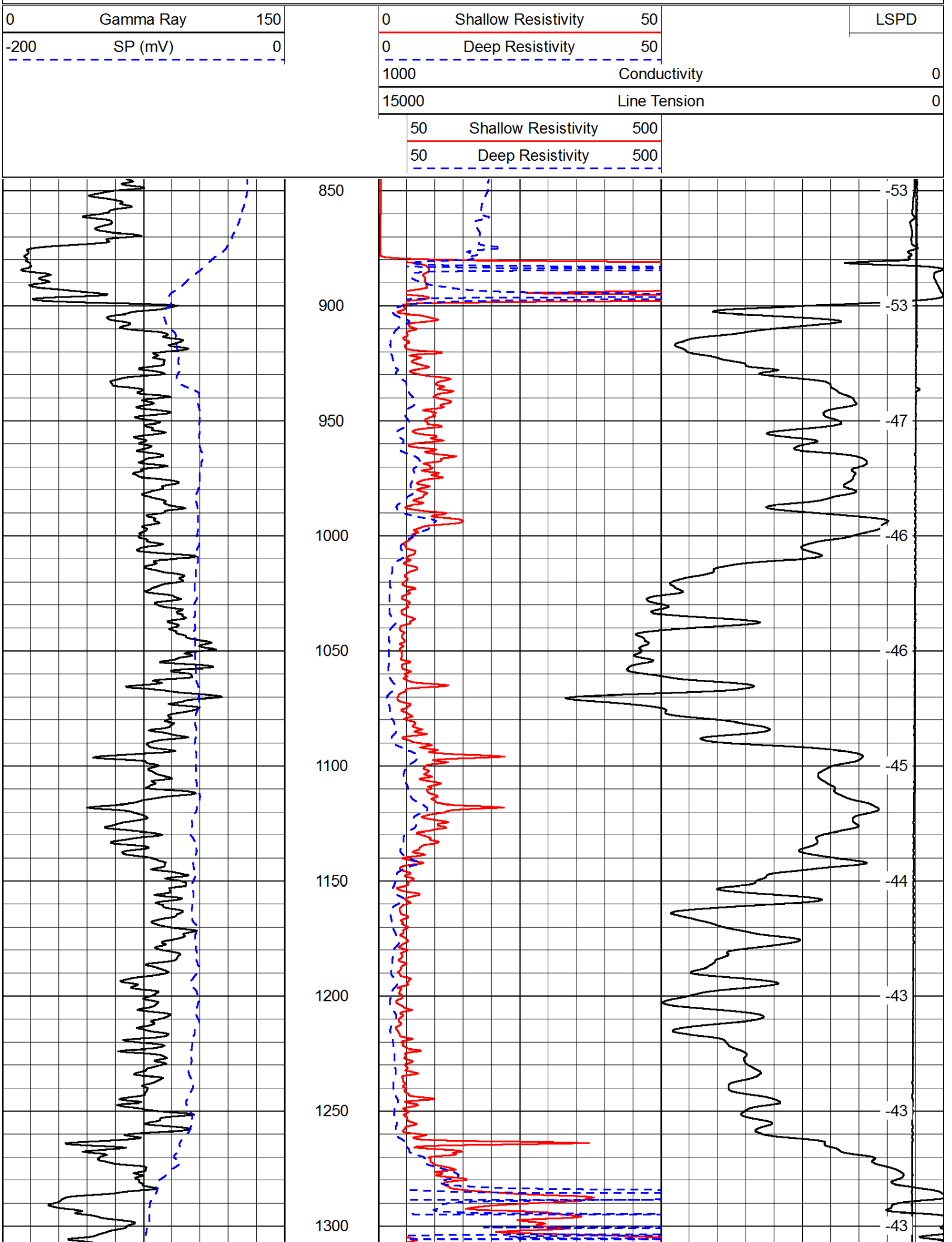
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs,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

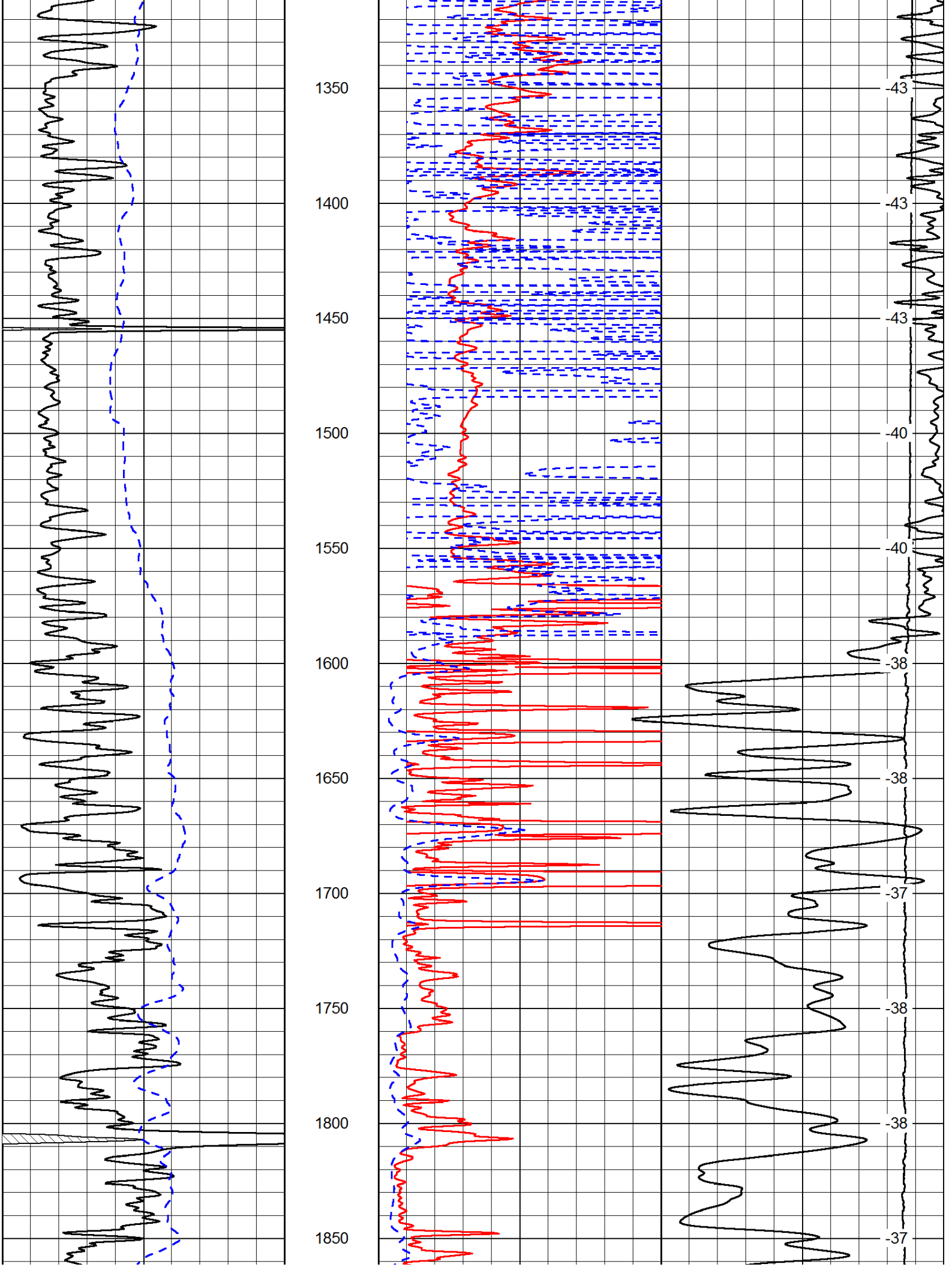
Comments

Thank you for using Pioneer Energy Services
www.pioneeres.com
785 625 3858
Russell,
South to 150 Rd, 1 West, 1 South, 1/4 West,
South into

Database File: c:\warrior\data\russell_conner #13\russell_020714hd.db
Dataset Pathname: dil/russell
Presentation Format: dil2in
Dataset Creation: Fri Feb 07 03:10:28 2014
Charted by: Depth in Feet scaled 1:600

Charted by: Depth in Feet scaled 1:500

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1400
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1500
1550
1600
1650
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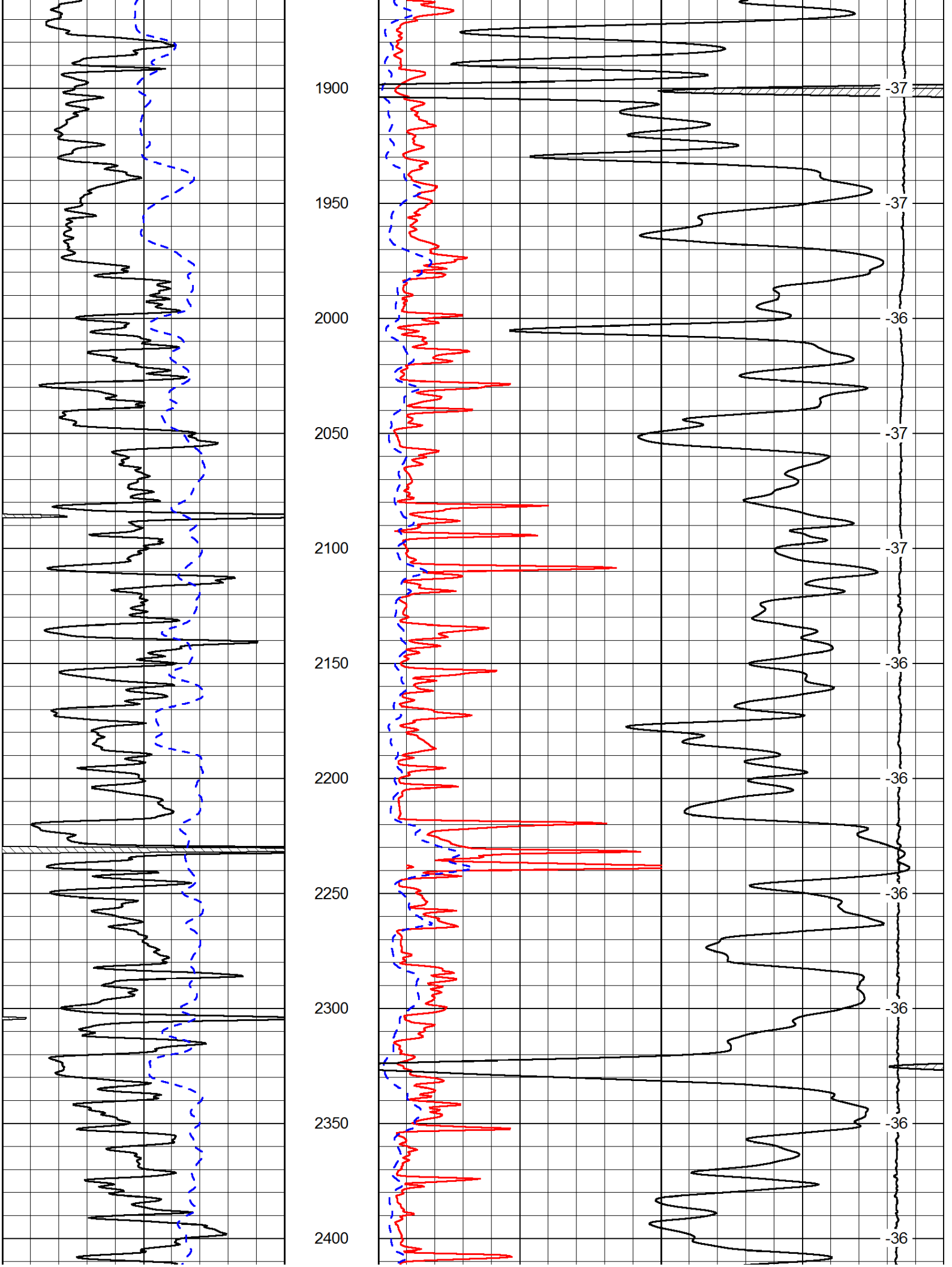
-38
-38
-37
-38
-38
-37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1950
2000
2050
2100
2150
2200
2250
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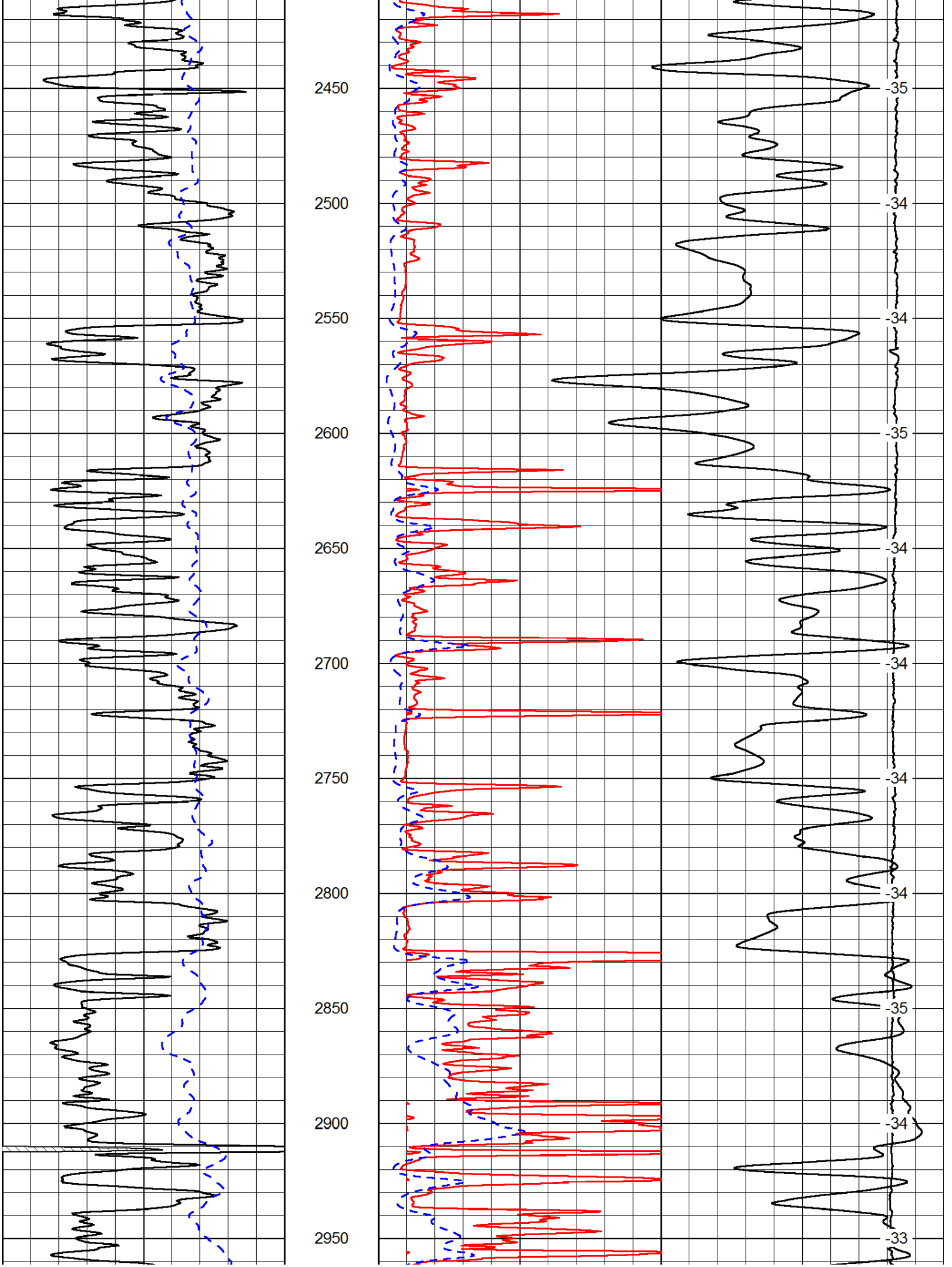
-36
-36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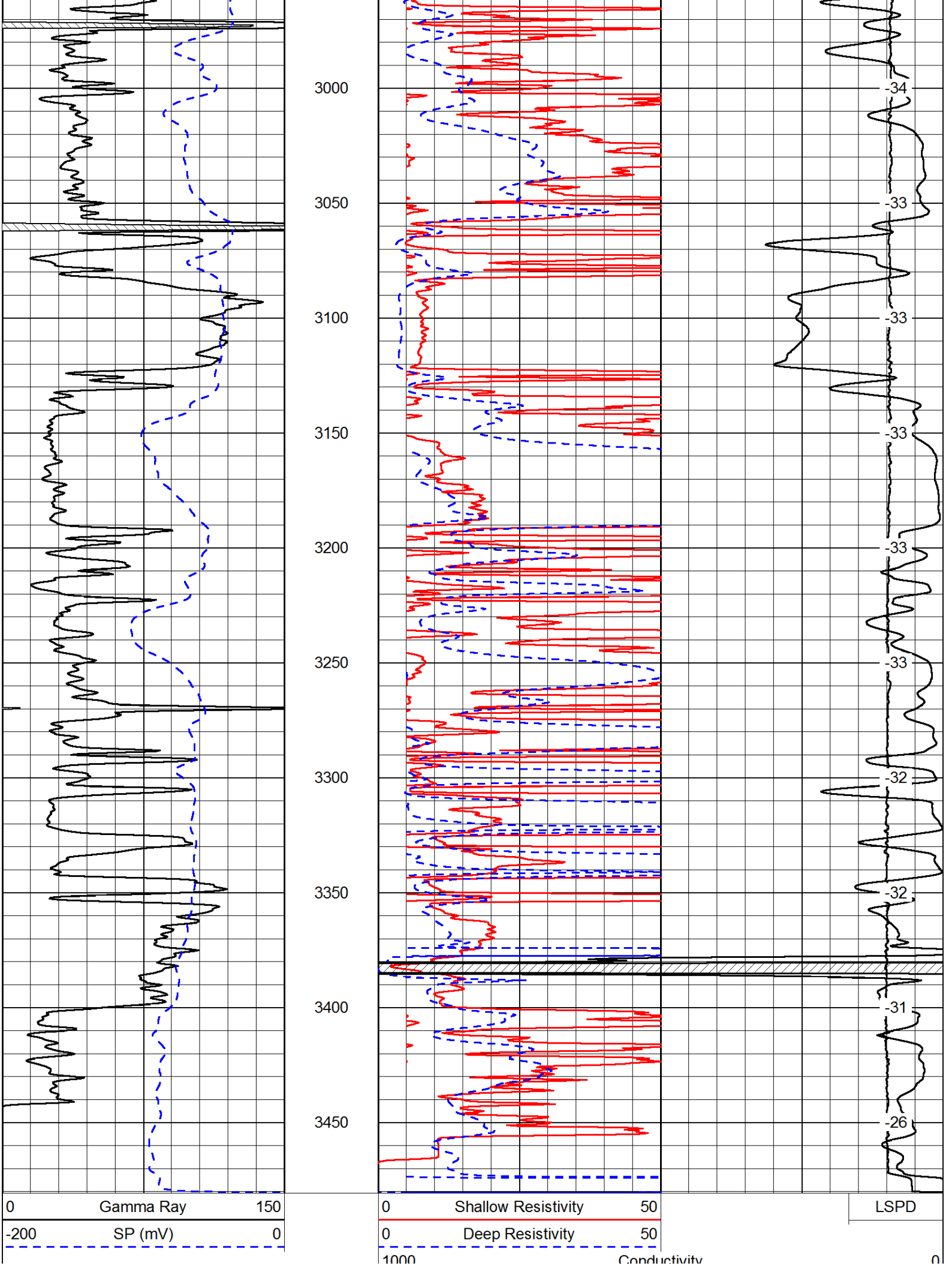
-35
-34
-33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3050
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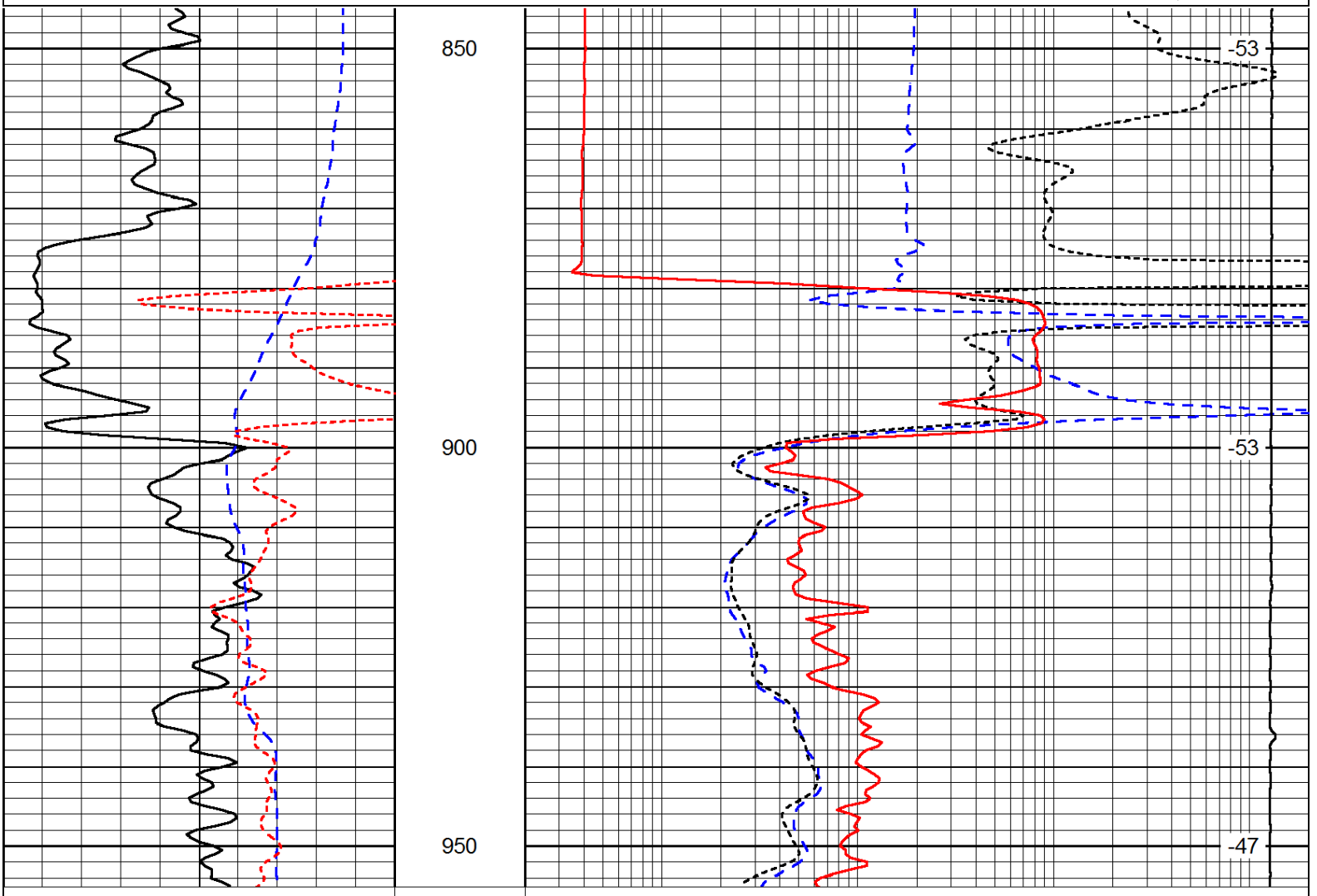
3300
3350
3400
3450
-34
-33
-33
-33
-33
-33
-32
-32
-31
-26
0
Gamma Ray
150
-200
SP (mV)
0
0
Shallow Resistivity
50
0
Deep Resistivity
50
1000
Conductivity
0
LSPD

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

Database File: c:\warrior\data\russell_conner #13\russell_020714hd.db
Dataset Pathname: dil/russell
Presentation Format: dil
Dataset Creation: Fri Feb 07 03:10:28 2014
Charted by: Depth in Feet scaled 1:240

0	Gamma Ray	150
-200	SP (mV)	0
-160	RxoRt	40

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



0	Gamma Ray	150
-200	SP (mV)	0
-160	RxoRt	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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Dataset Creation: Fri Feb 07 03:10:28 2014
Charted by: Depth in Feet scaled 1:240

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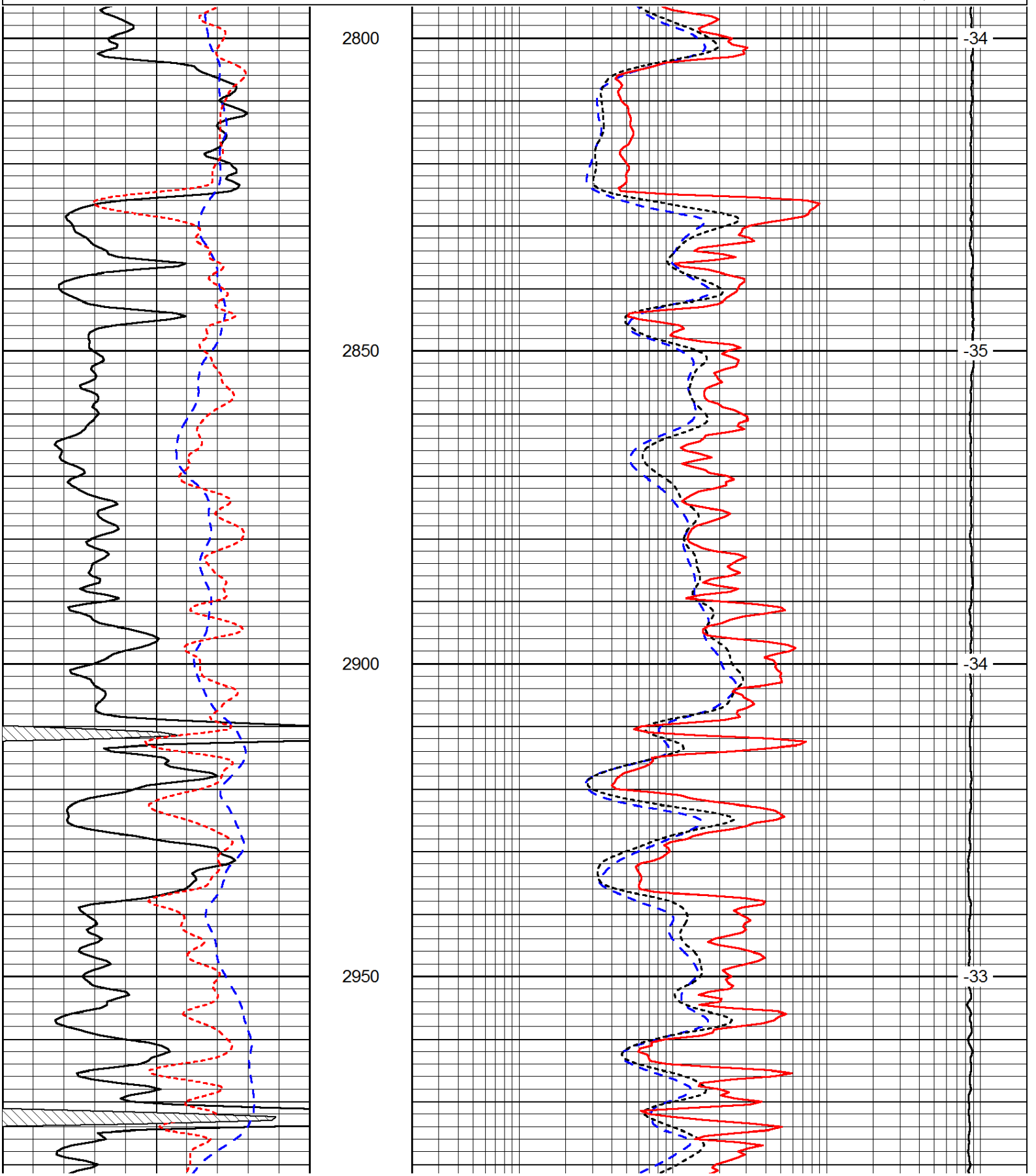
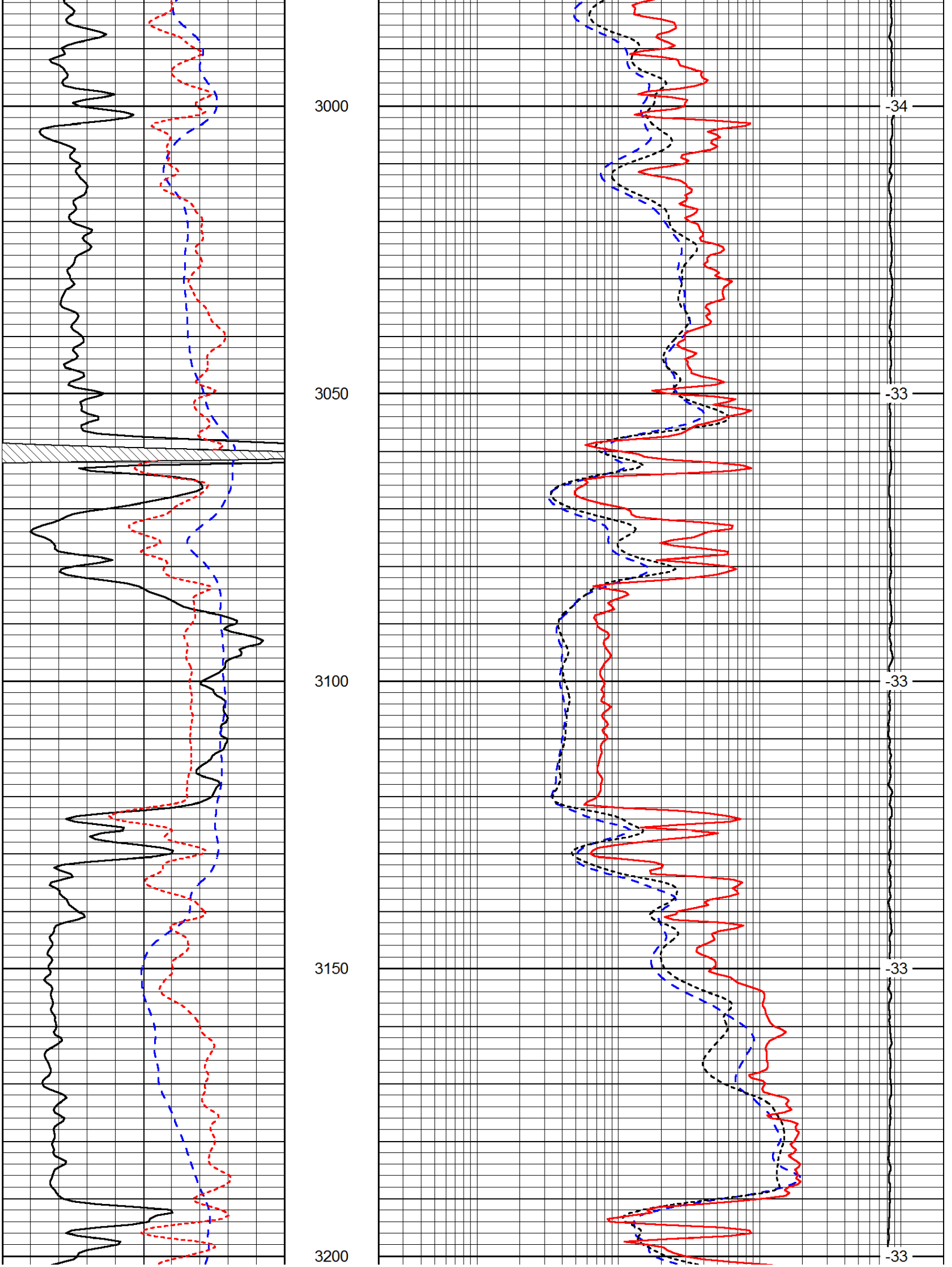
-200	SP (mV)	0
-160	RxoRt	40

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

LSPD

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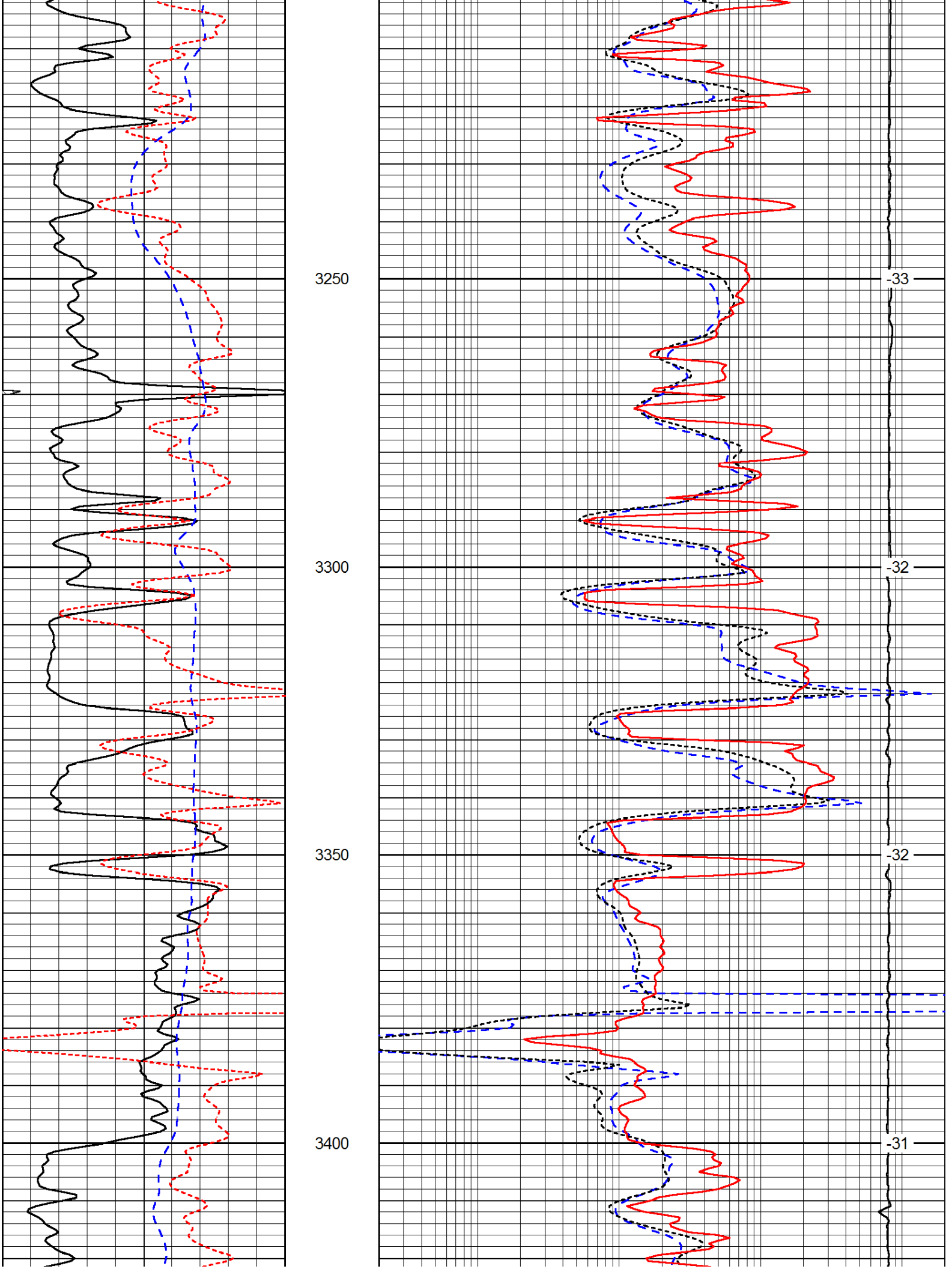
3050
3100
3150
3200
-34
-33
-33
-33
-33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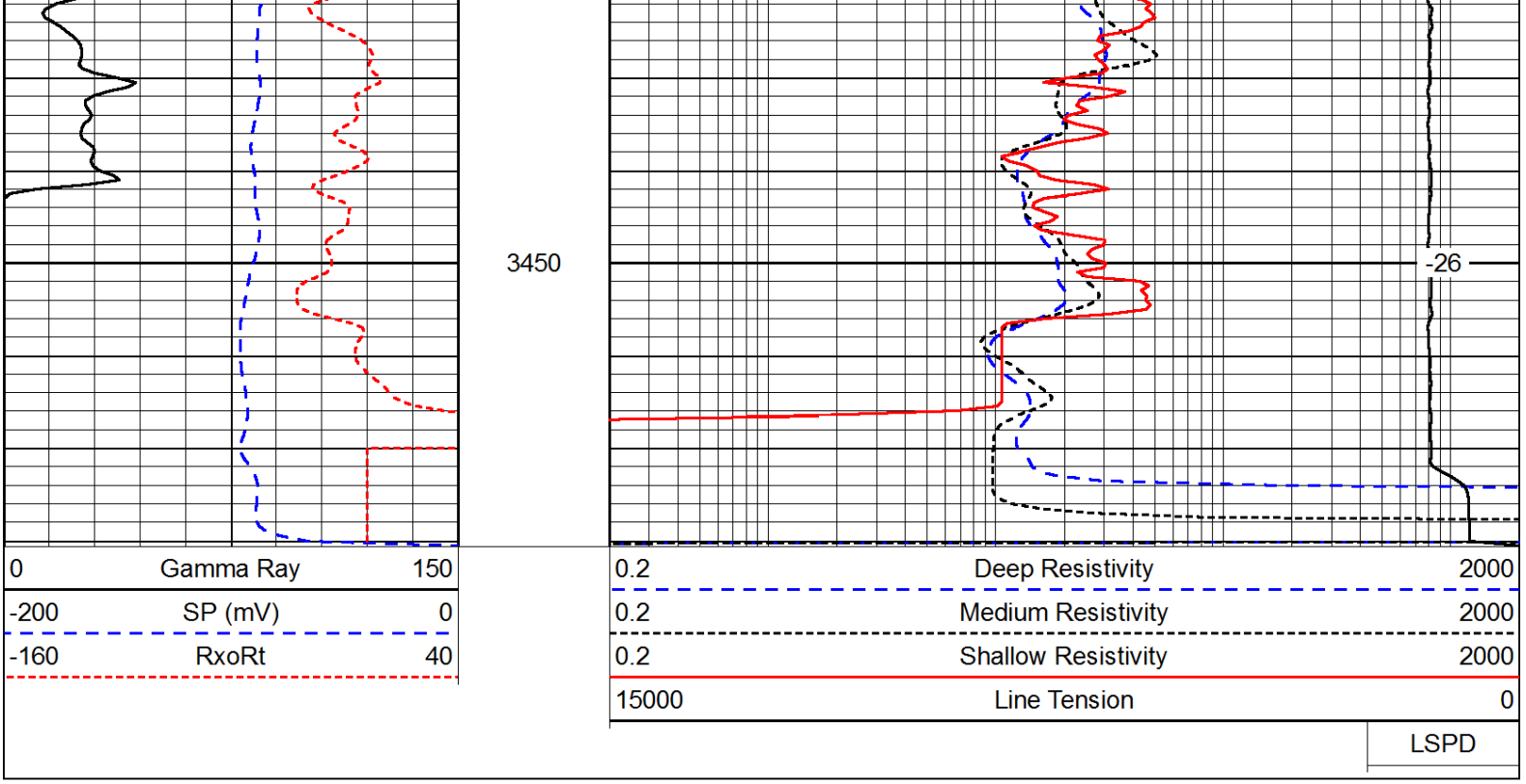
3300
3350
3400
-33
-32
-32
-31


3450
-26
0 Gamma Ray 150
-200 SP (mV) 0
-160 RxoRt 40
0.2 Deep Resistivity 2000
0.2 Medium Resistivity 2000
0.2 Shallow Resistivity 2000
15000 Line Tension 0
LSPD