PIONEER

Pioneer Energy Services

Dual Induction Log

Company	H&B Petroleum Corporation
Well	Crane #1
Field	Jessie
County	Pawnee
State	Kansas
API No.	15-145-21798-00-00
Location	SE NE SW SE 720' FSL & 1555' FEL Sec: 36 Twp: 21S Rge: 15W
Other Services	CNL/CDL MEL/BHCS
Elevation	K.B. 1967 D.F. G.L. 1959

Permanent Datum	Ground Level	Elevation 1959	
Log Measured From	Kelly Bushing	8	Ft. Above Perm. Datum
Drilling Measured From	Kelly Bushing		
Date	2/23/2015		
Run Number	One		
Depth Driller	3910		
Depth Logger	3910		
Bottom Logged Interval	3909		
Top Log Interval	900		
Casing Driller	8.625 @ 925		
Casing Logger	929		
Bit Size	7.875		
Type Fluid in Hole	Chemical		
Salinity,ppm CL	5000		
Density / Viscosity	9.4 | 62		
pH / Fluid Loss	8.5 | 8.2		
Source of Sample	Flowline		
Rm @ Meas. Temp	0.65 @ 40		
Rmf @ Meas. Temp	0.49 @ 40		
Rmc @ Meas. Temp	0.88 @ 40		
Source of Rmf / Rmc	Charts		
Rm @ BHT	0.23 @ 115		
Operating Rig Time	4 Hours		
Max. Rec. Temp. F	115		
Equipment Number	91		
Location	Hays		
Recorded By	D. Schmidt		
Witnessed By	Jim Musgrove		

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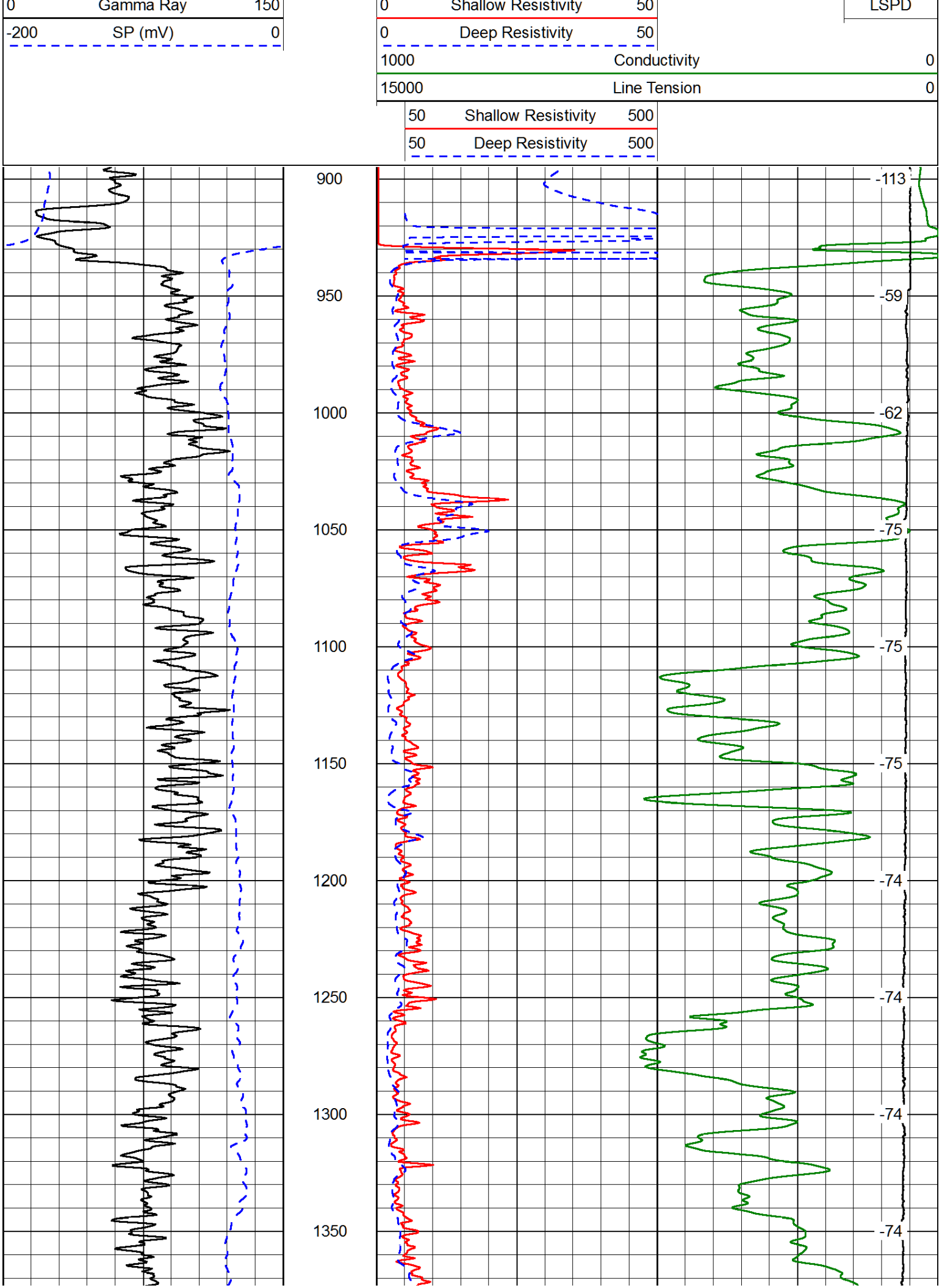
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs,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

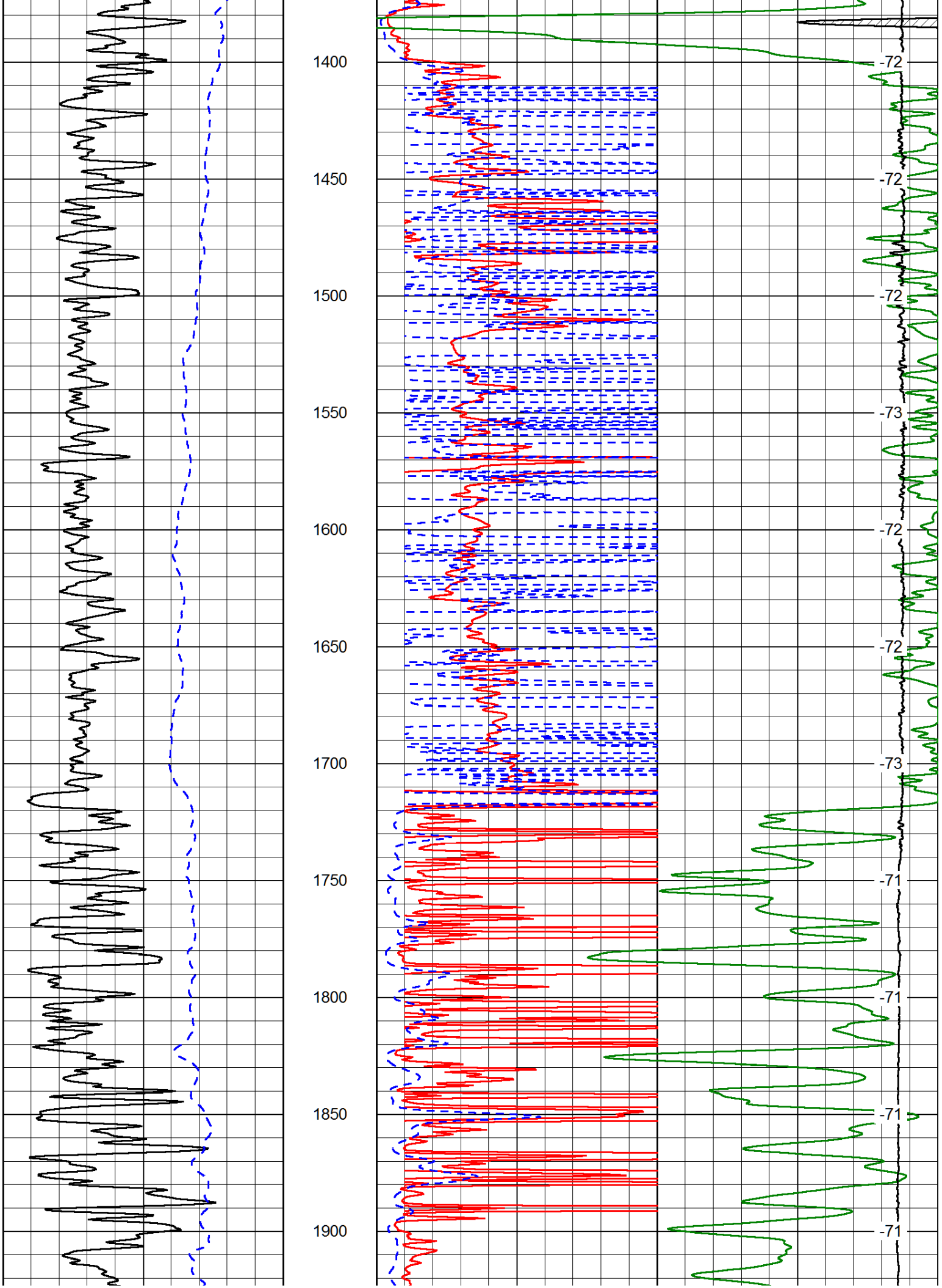
Comments

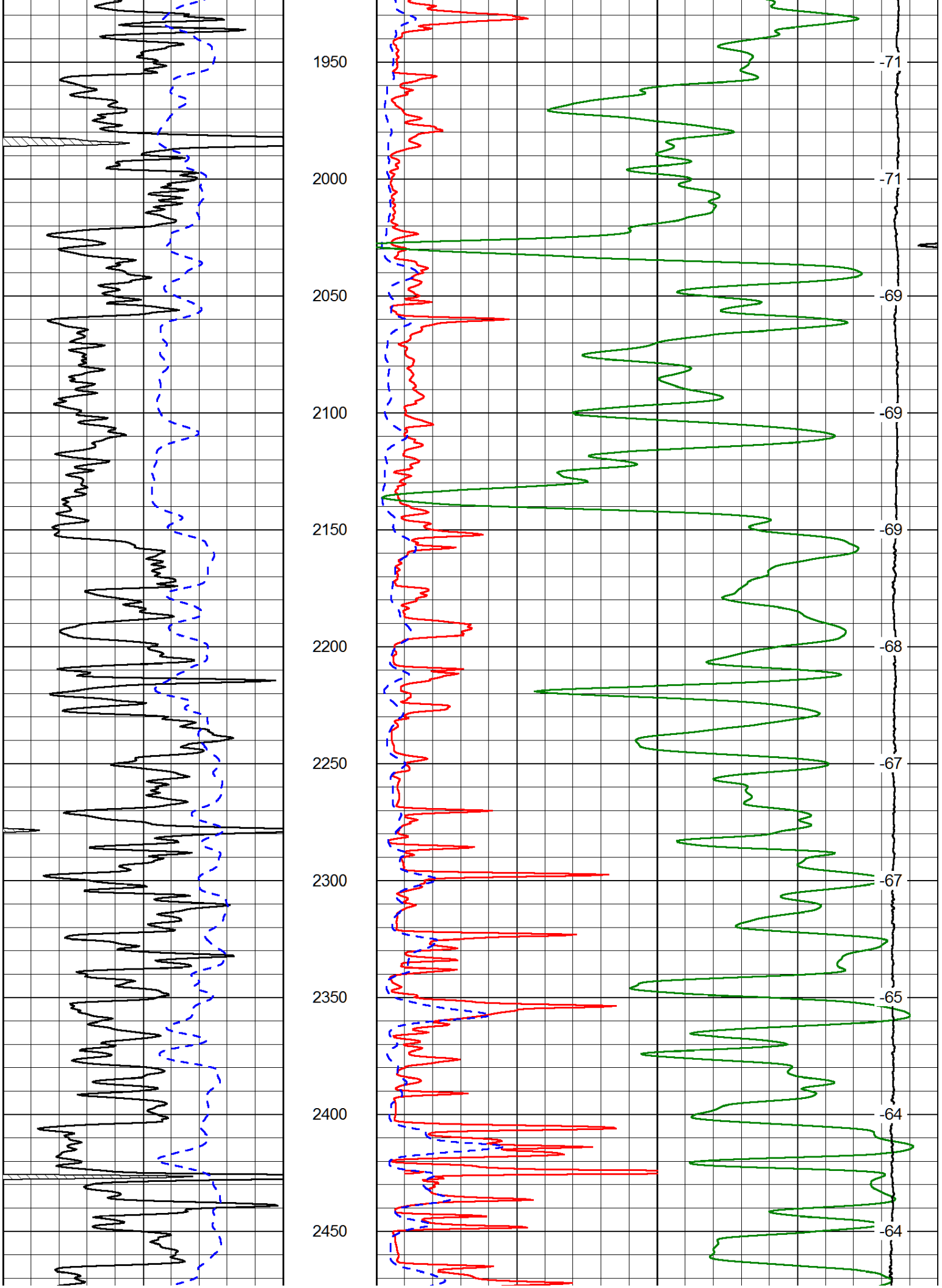
Thank you for using Log-Tech, Inc.
(785) 625-3858

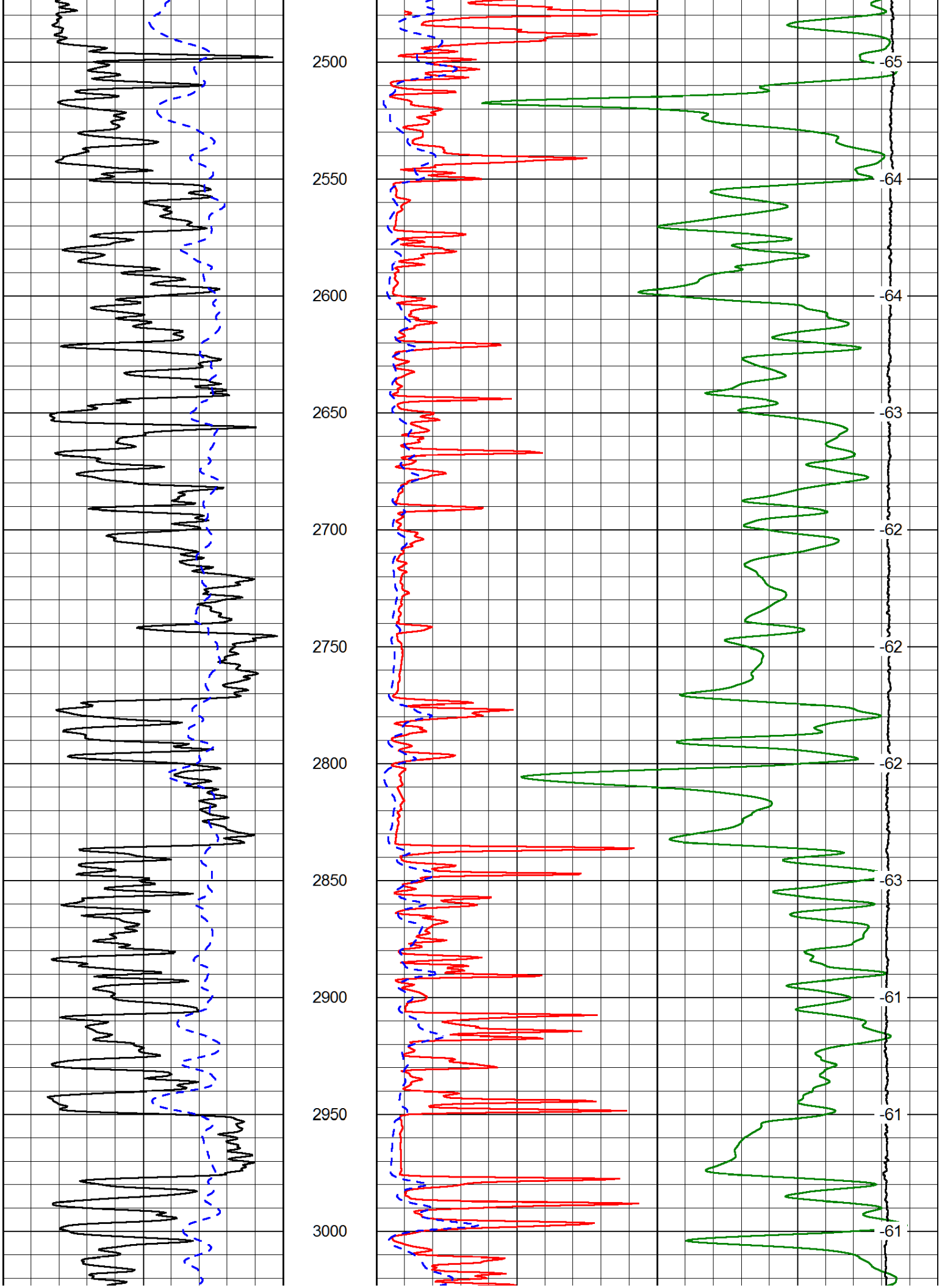
Radium,
1 1/2 West, North into

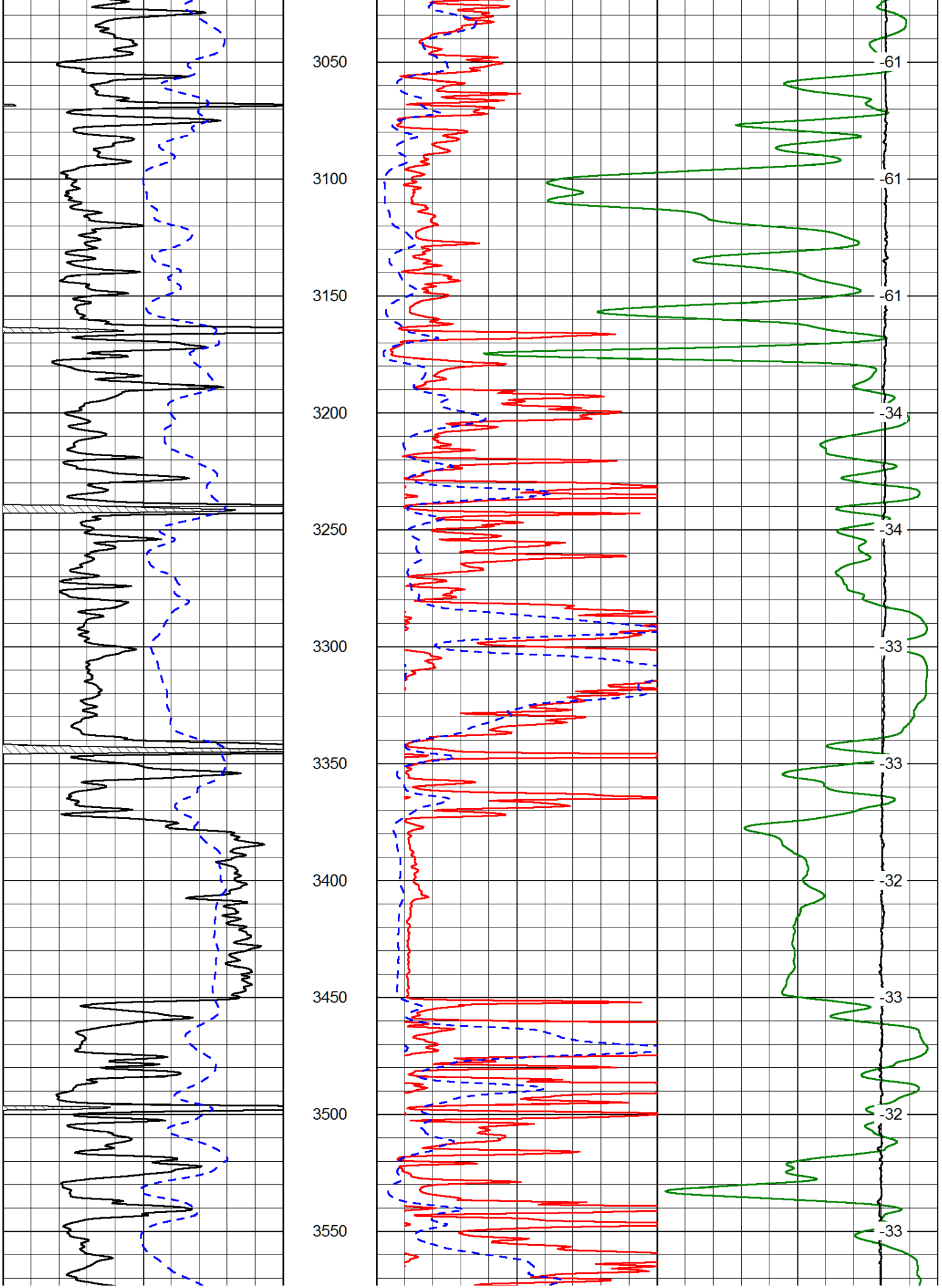
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Dataset Creation:	Mon Feb 23 11:00:06 2015
Charted by:	Depth in Feet scaled 1:600

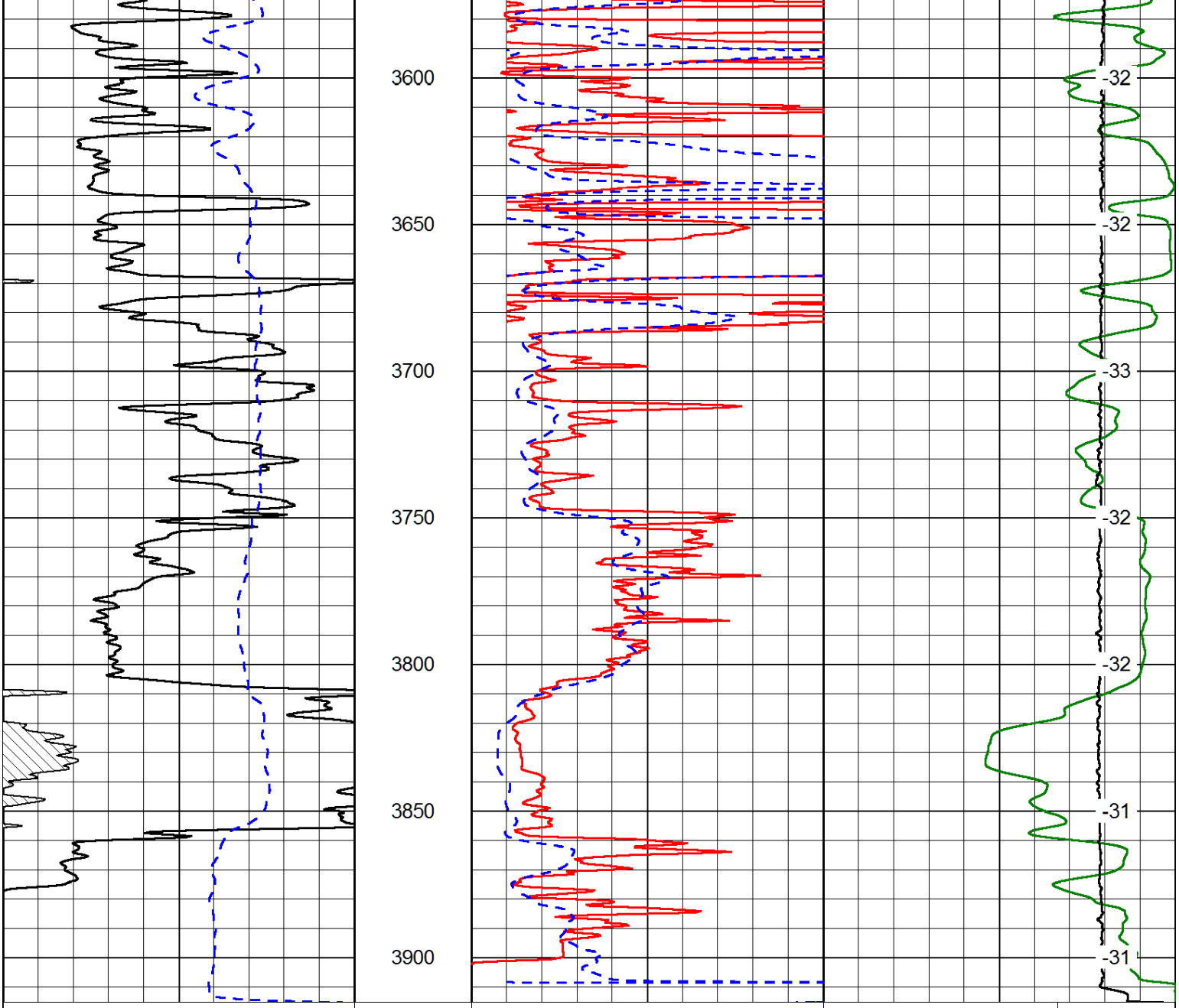

0 Gamma Ray 150
-200 SP (mV) 0
0 Shallow Resistivity 50
0 Deep Resistivity 50
1000 Conductivity 0
15000 Line Tension 0
50 Shallow Resistivity 500
50 Deep Resistivity 500
LSPD
900
950
1000
1050
1100
1150
1200
1250
1300
1350
-113
-59
-62
-75
-75
-75
-74
-74
-74
-74


1400
1450
1500
1550
1600
1650
1700
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1800
1850
1900
-72
-72
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-73
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-72
-73
-71
-71
-71
-71

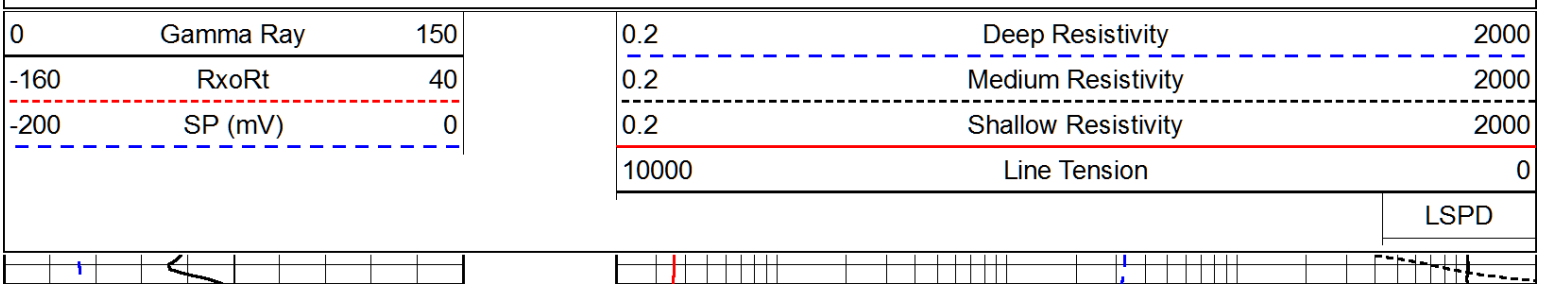

1950
2000
2050
2100
2150
2200
2250
2300
2350
2400
2450
-71
-71
-69
-69
-69
-68
-67
-67
-65
-64
-64

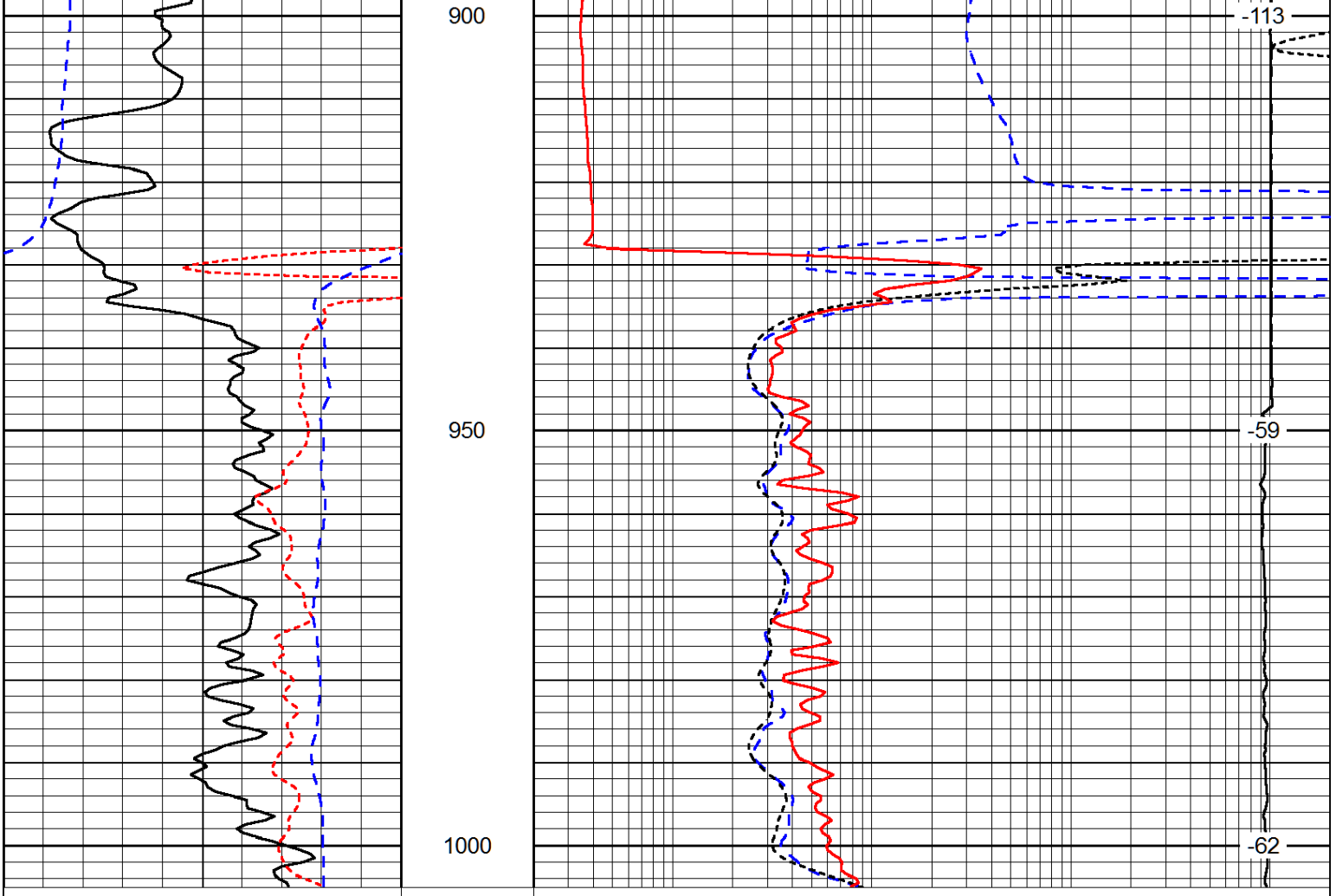

2500
2550
2600
2650
2700
2750
2800
2850
2900
2950
3000
-65
-64
-64
-63
-62
-62
-62
-63
-61
-61
-61


3050
3100
3150
3200
3250
3300
3350
3400
3450
3500
3550
-61
-61
-61
-34
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-32
-33
-32
-33

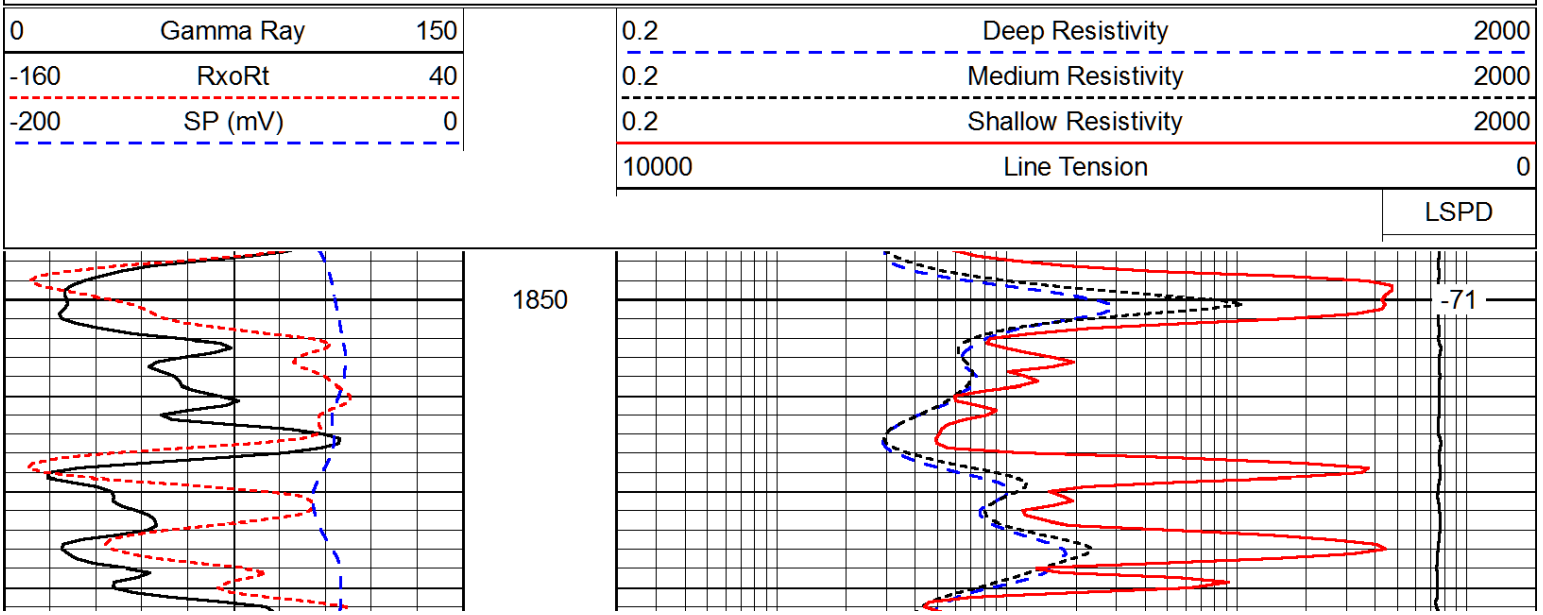


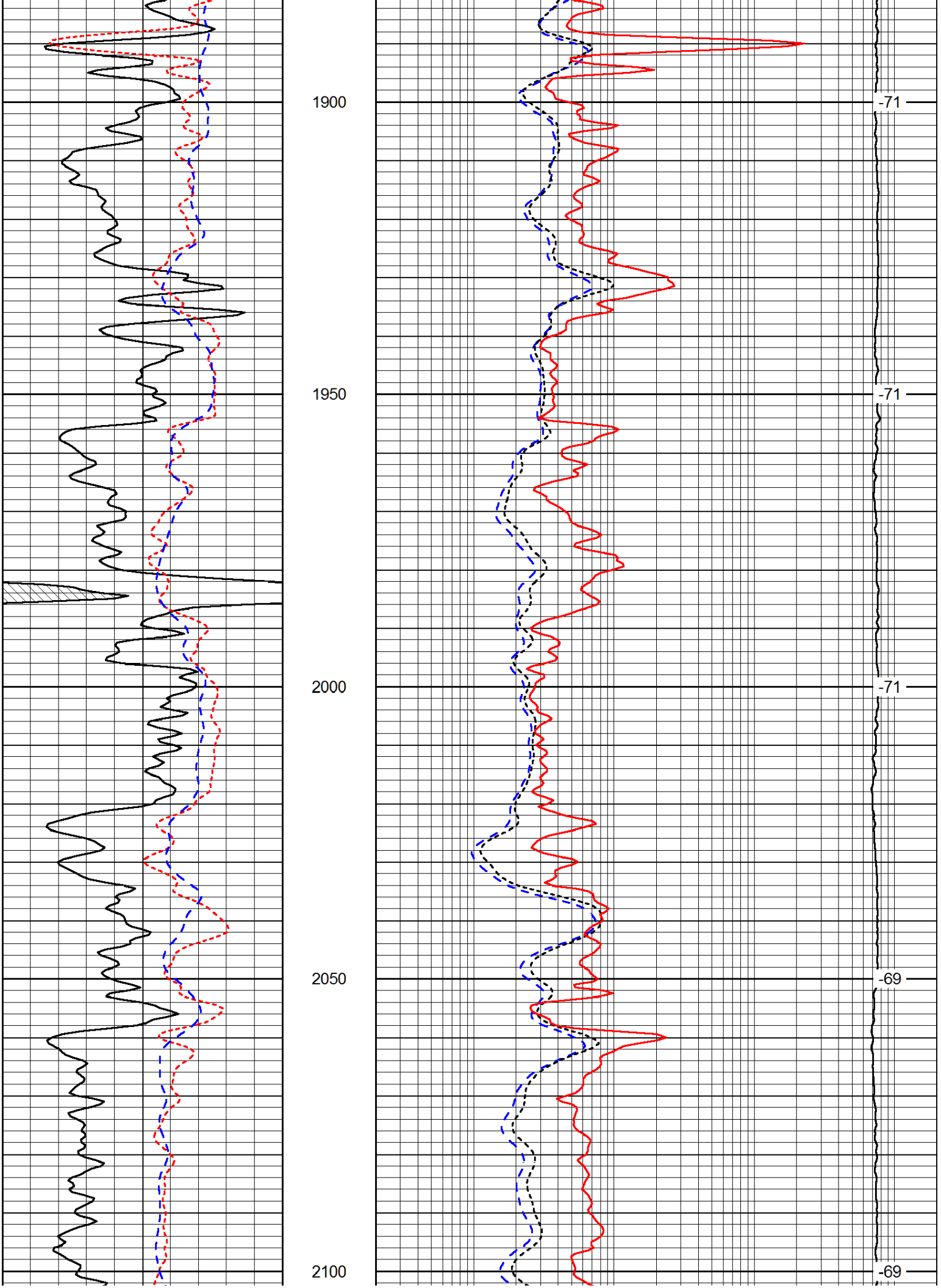
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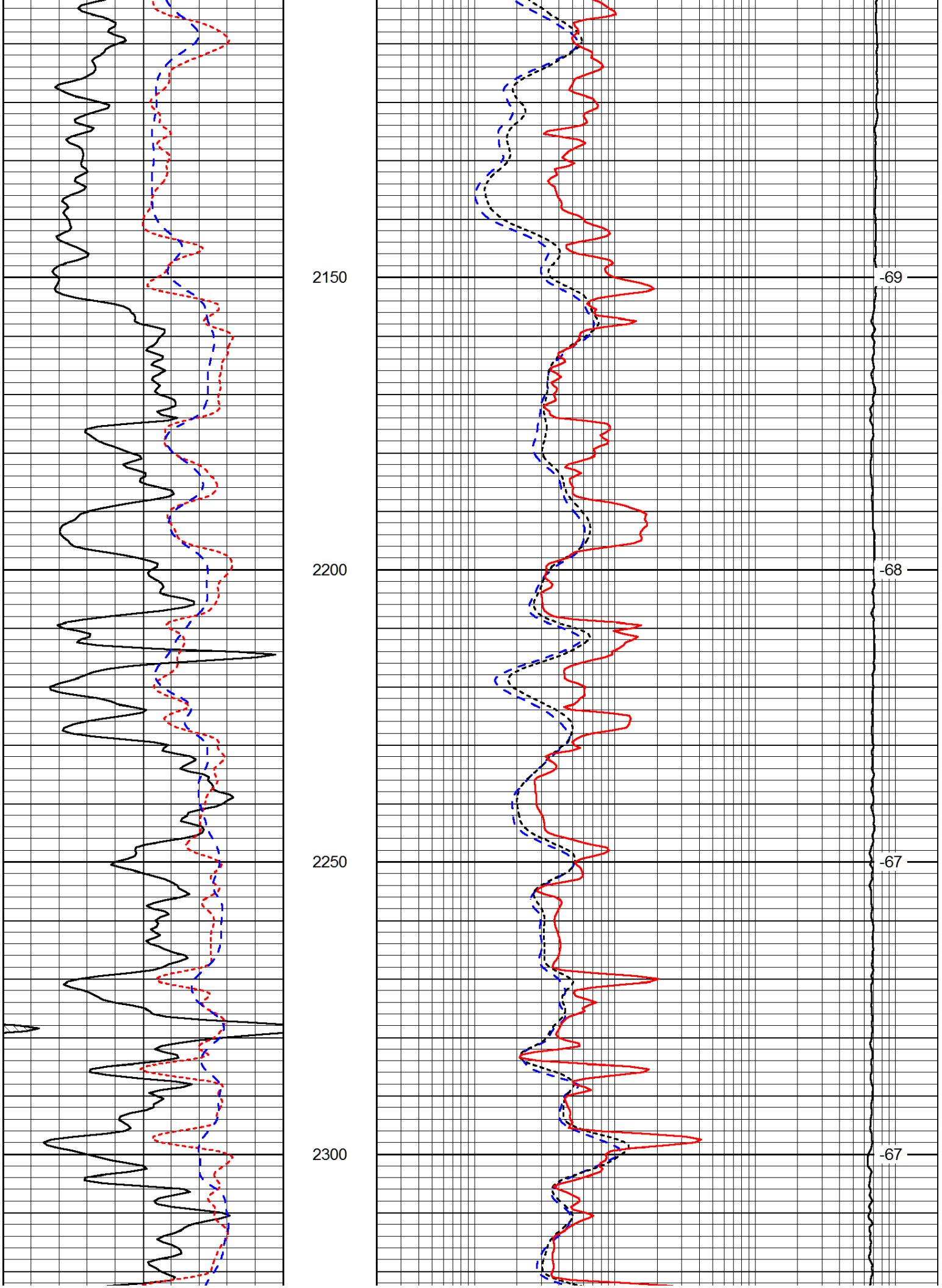


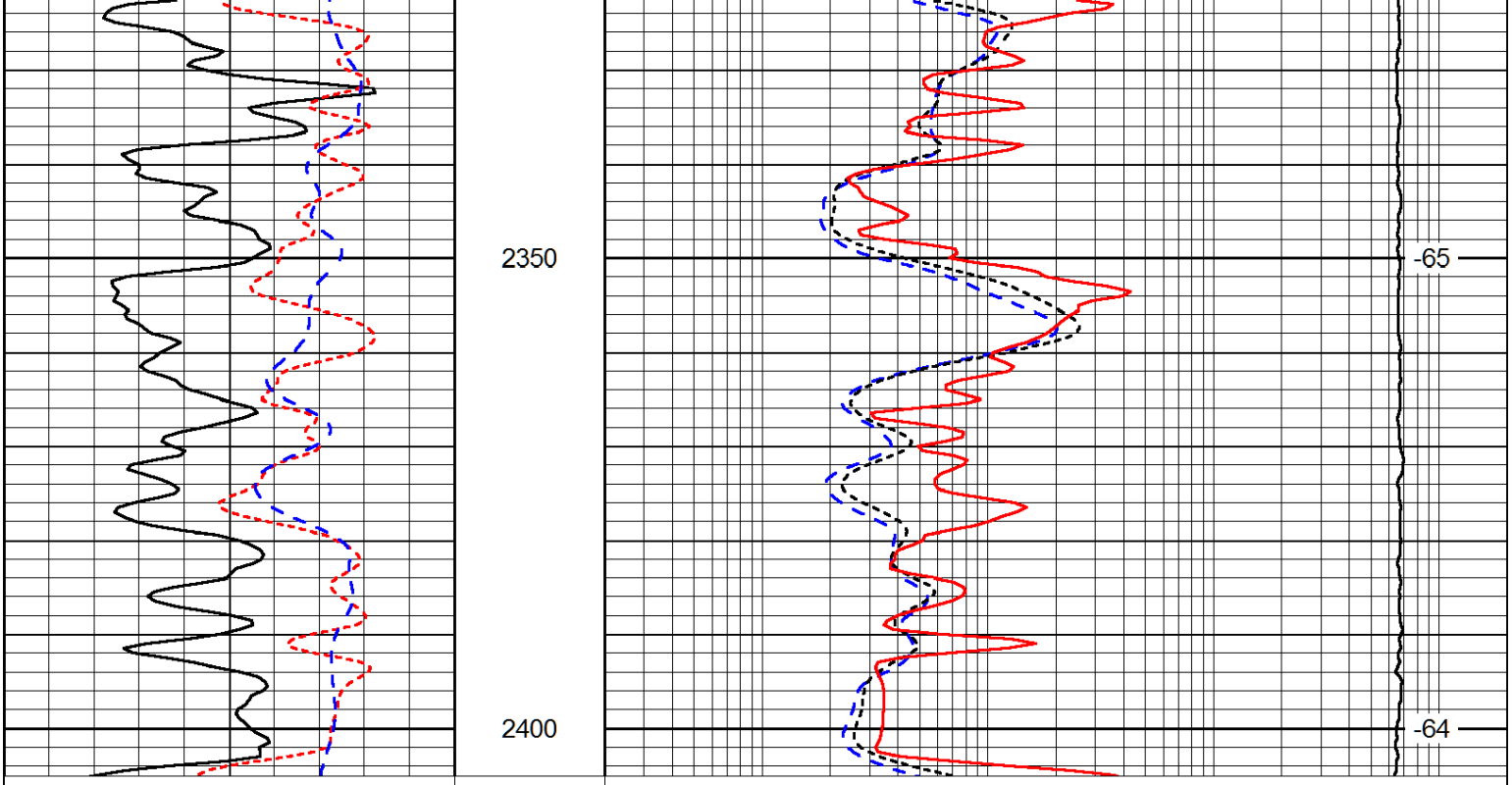


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1900
1950
2000
2050
2100
-71
-71
-71
-69
-69


2150
2200
2250
2300
-69
-68
-67
-67



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

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

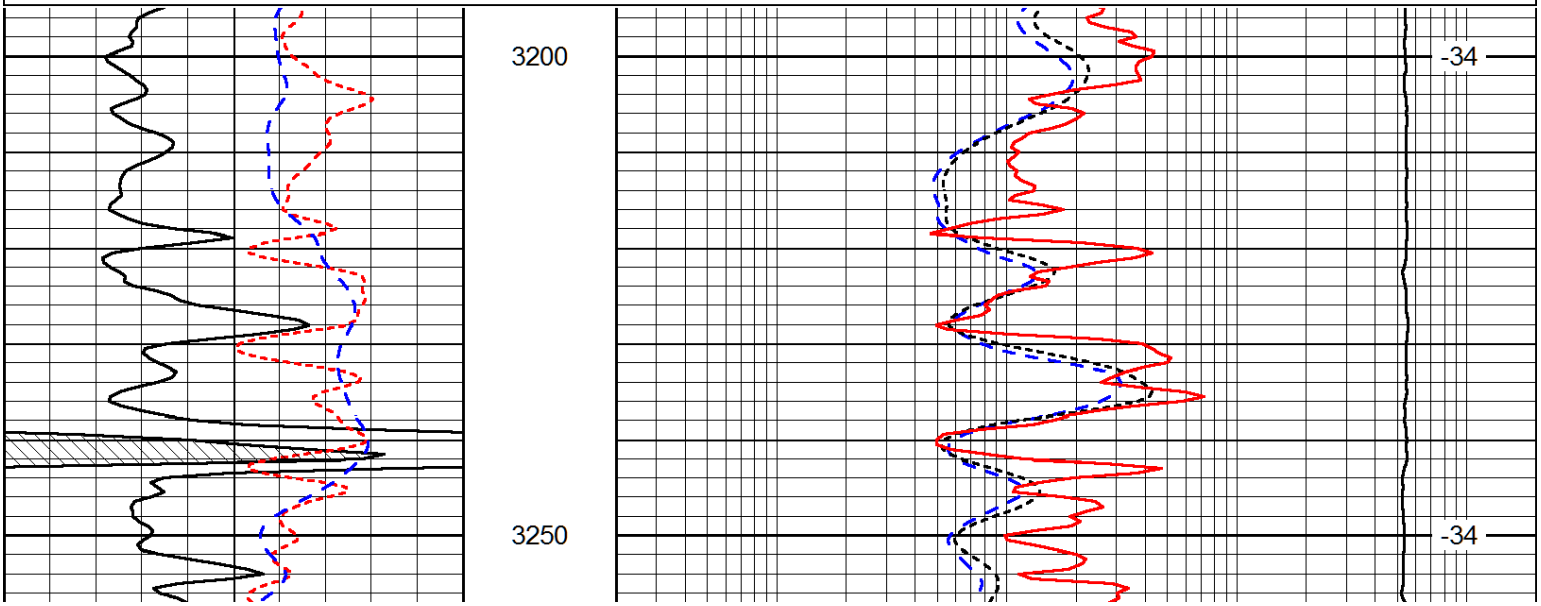
LSPD

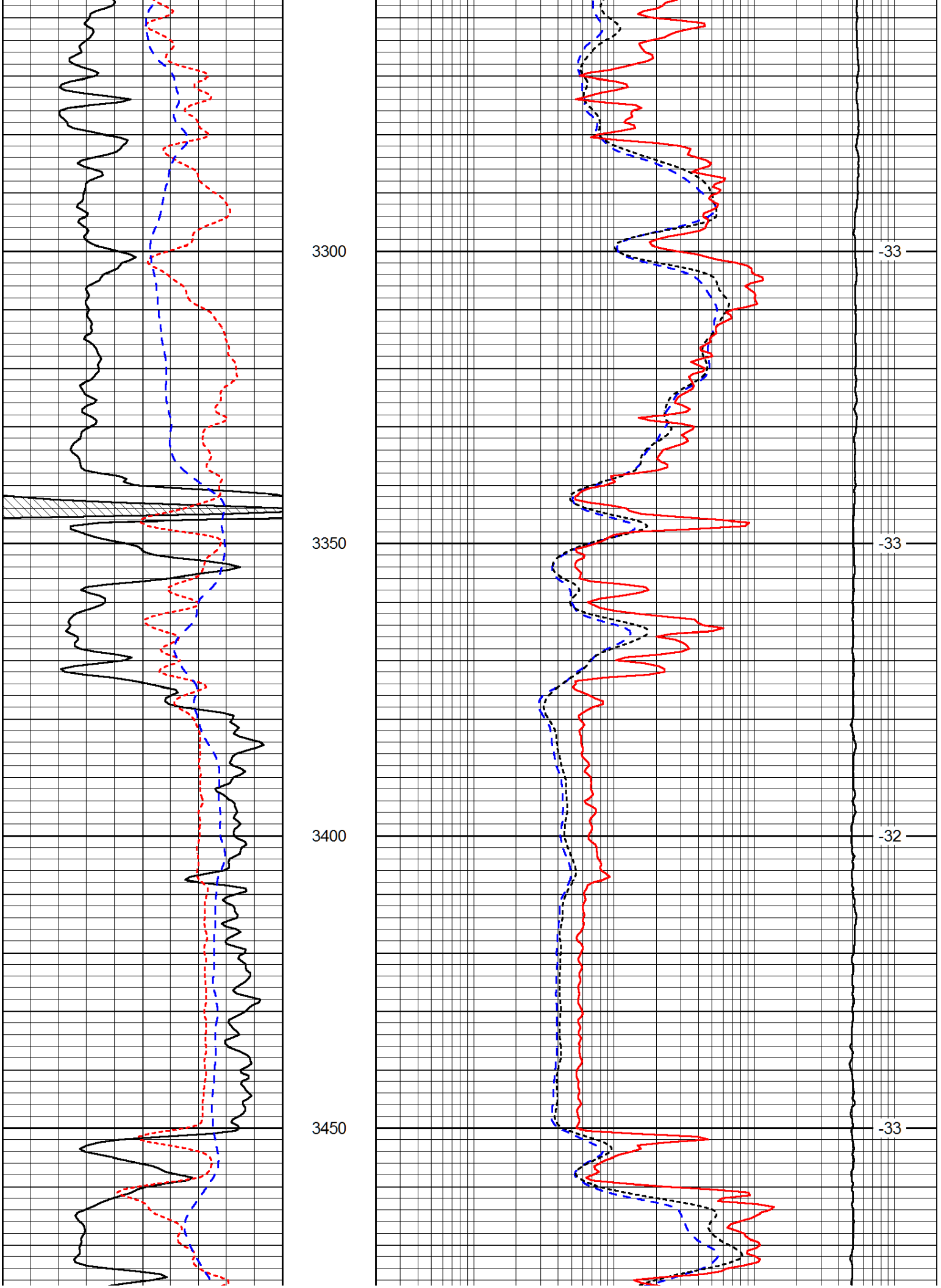
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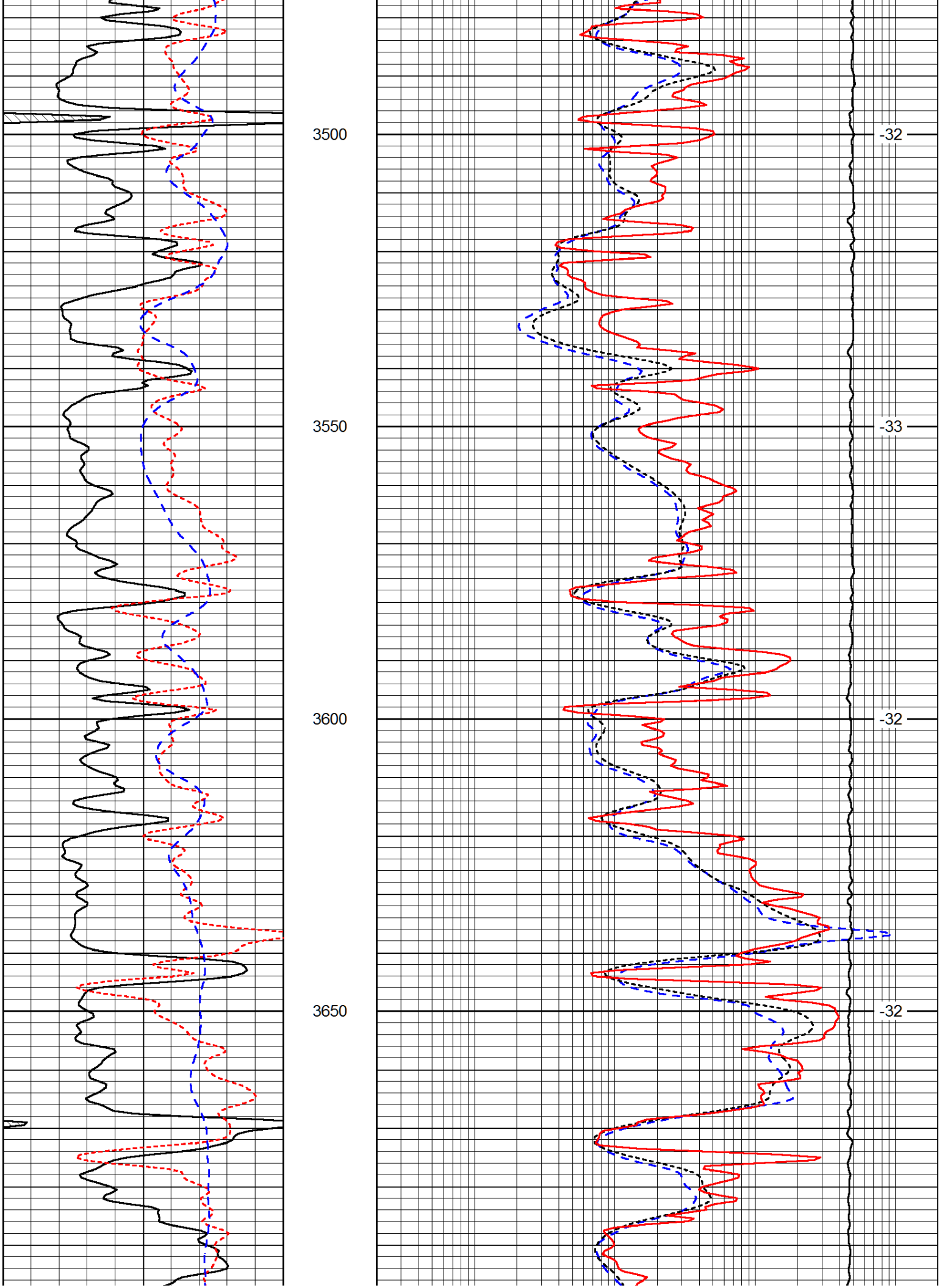
0	Gamma Ray	150
-160	RxoRt	40
-200	SP (mV)	0

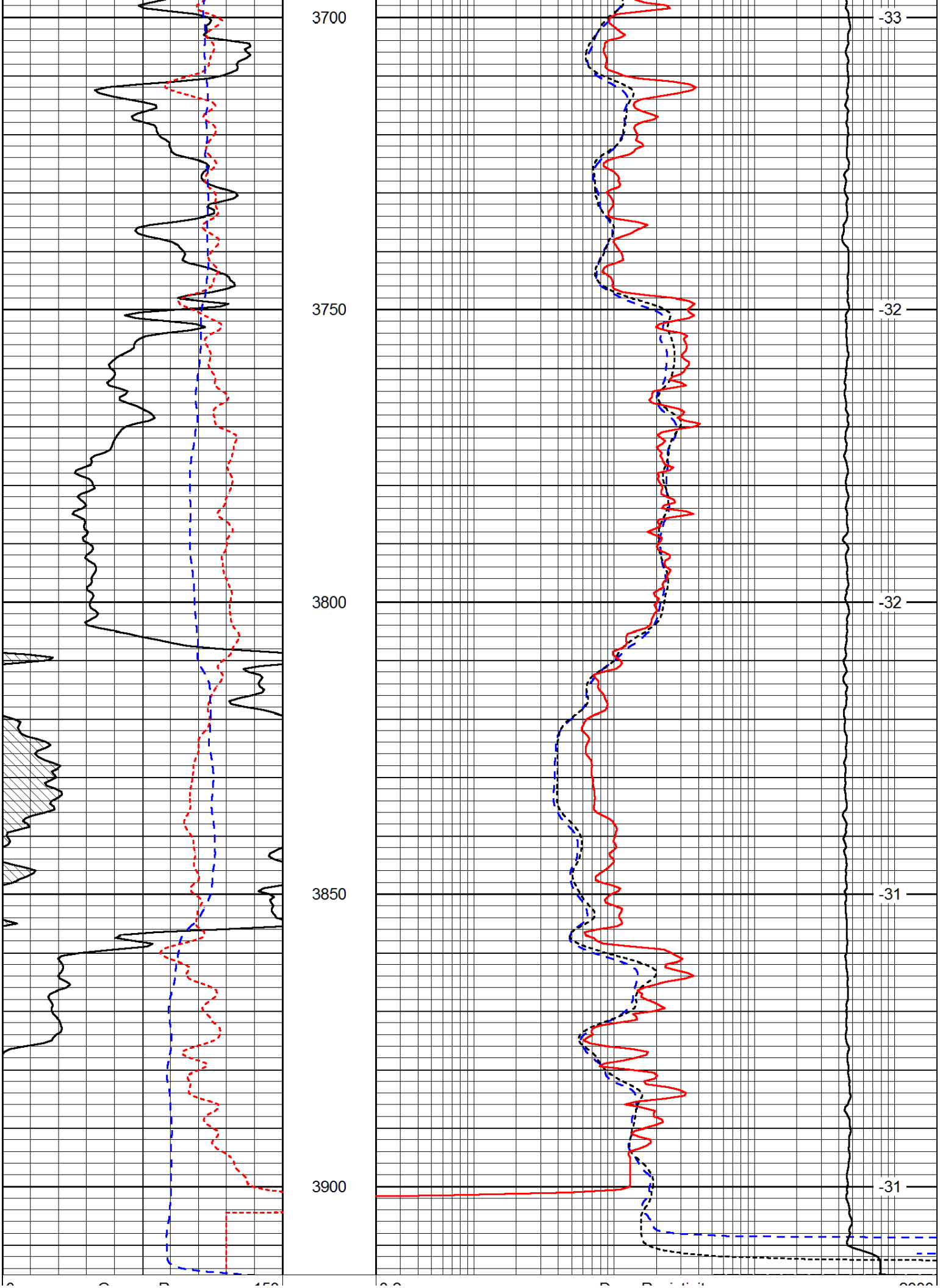
0.2	Deep Resistivity	2000
0.2	Medium Resistivity	2000
0.2	Shallow Resistivity	2000
10000	Line Tension	0

LSPD




3300
3350
3400
3450
-33
-33
-32
-33


3500
3550
3600
3650
-32
-33
-32
-32


3700
3750
3800
3850
3900
-33
-32
-32
-31
-31

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

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

LSPD