LOG-TECH

DIGITAL LOG (785) 625-3858

Dual Induction Log

API No. 15-065-23,775-00-00

Company H&C Oil Operating, Inc.

Well Bollig No. 12-1

Field Law Southeast

County Graham State Kansas

Location 1,320' FNL & 1,650' FWL

Sec: 12 Twp: 10S Rge: 23W

Permanent Datum Ground Level Elevation 2420

Log Measured From Kelly Bushing 5 Ft. Above Perm. Datum

Drilling Measured From Kelly Bushing

Other Services
CNL/CDL
MEL/BHCS

Elevation
K.B. 2425
D.F.
G.L. 2420

Date	10/5/2011		
Run Number	One		
Depth Driller	4272		
Depth Logger	4271		
Bottom Logged Interval	4270		
Top Log Interval	250		
Casing Driller	8.625 @ 270		
Casing Logger	265		
Bit Size	7.875		
Type Fluid in Hole	Chemical		
Salinity,ppm CL	3000		
Density / Viscosity	9.2 72		
pH / Fluid Loss	9.0 9.6		
Source of Sample	Flowline		
Rm @ Meas. Temp	.56 @ 76		
Rmf @ Meas. Temp	.42 @ 76		
Rmc @ Meas. Temp	.76 @ 76		
Source of Rmf / Rmc	Charts		
Rm @ BHT	.36 @ 119		
Operating Rig Time	4 Hours		
Max. Rec. Temp. F	119		
Equipment Number	10		
Location	Hays		
Recorded By	J. Long		
Witnessed By	Clayton Erickson		

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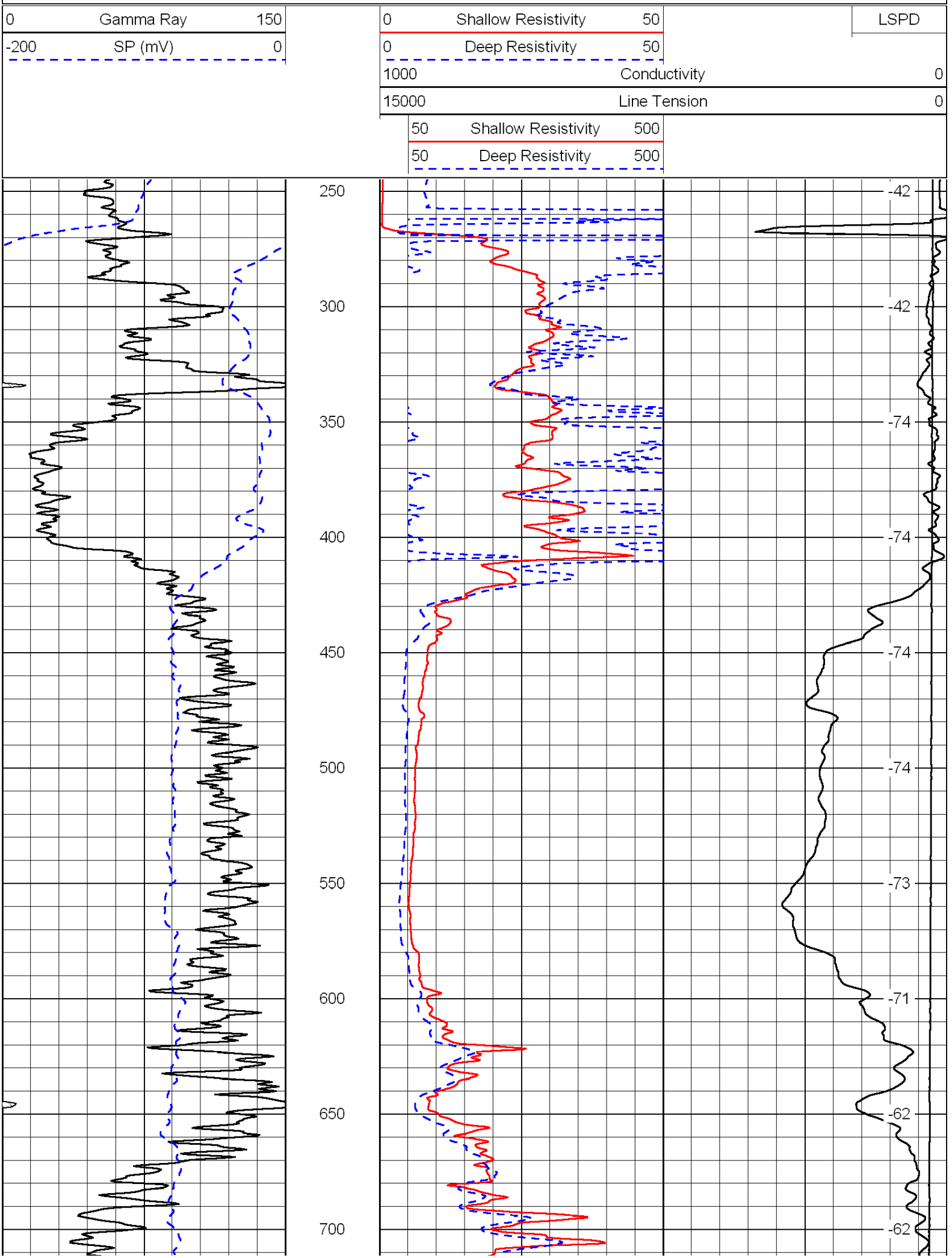
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs,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

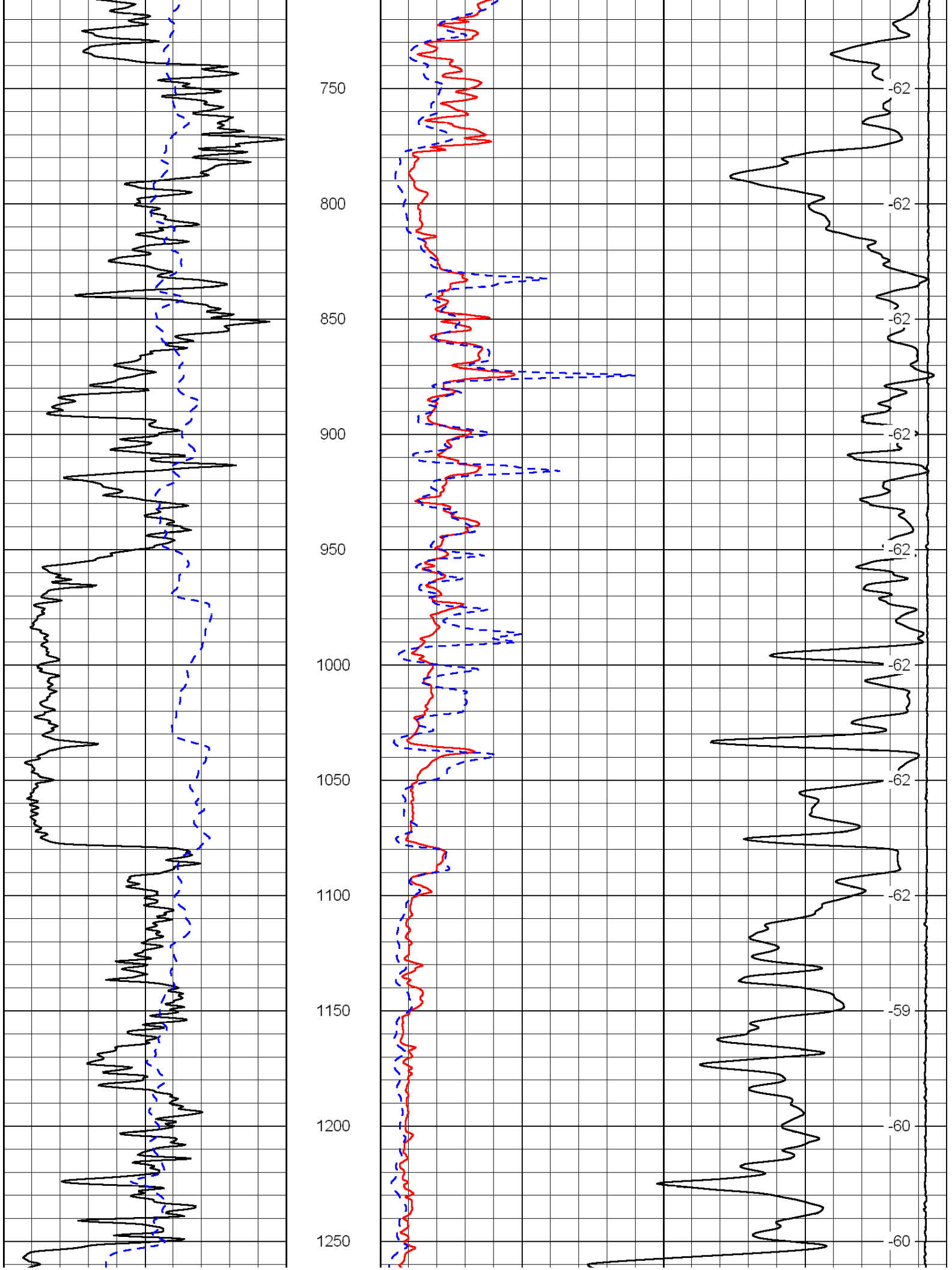
Comments

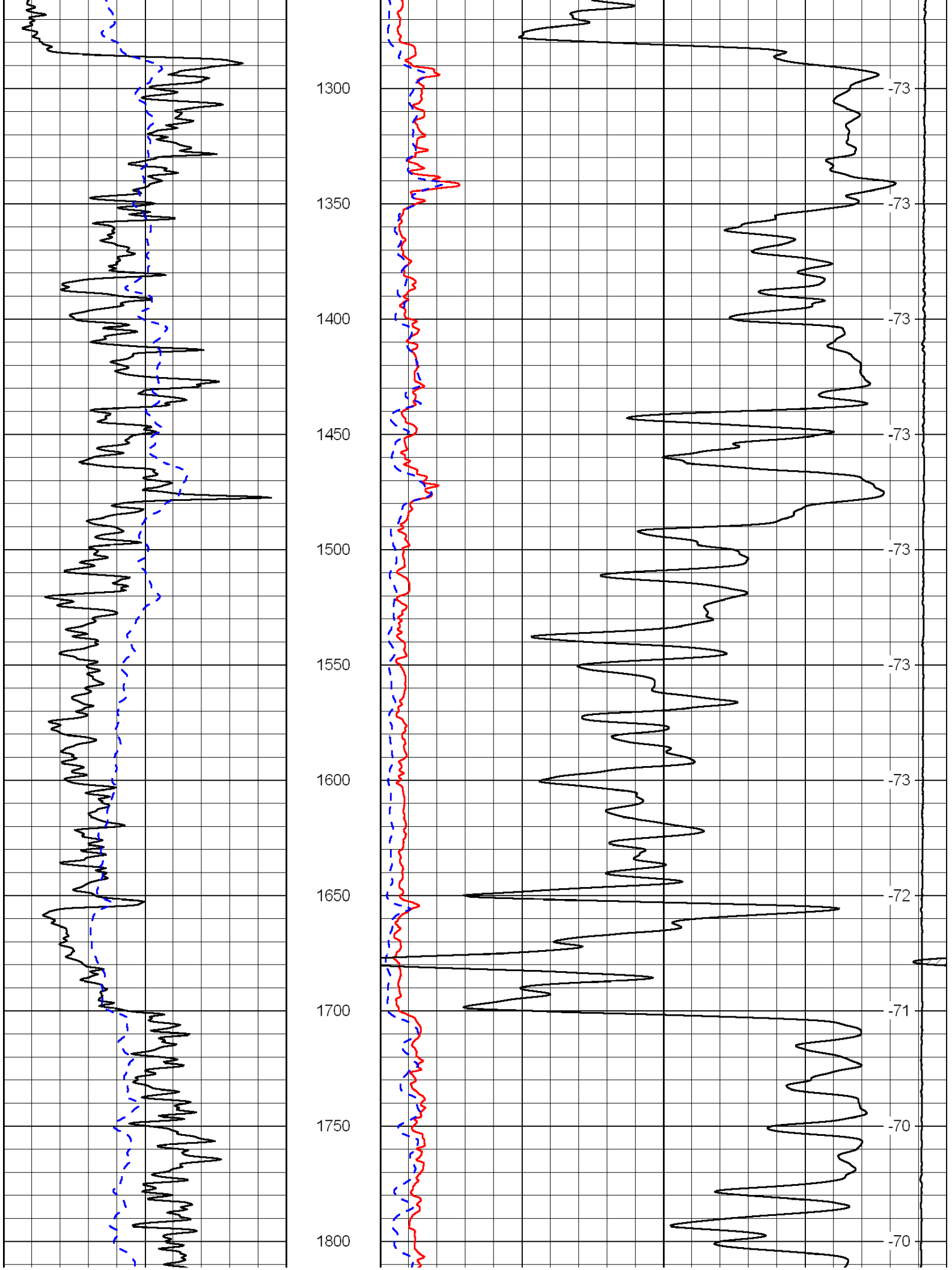
Thank you for using Log-Tech, Inc.
(785) 625-3858

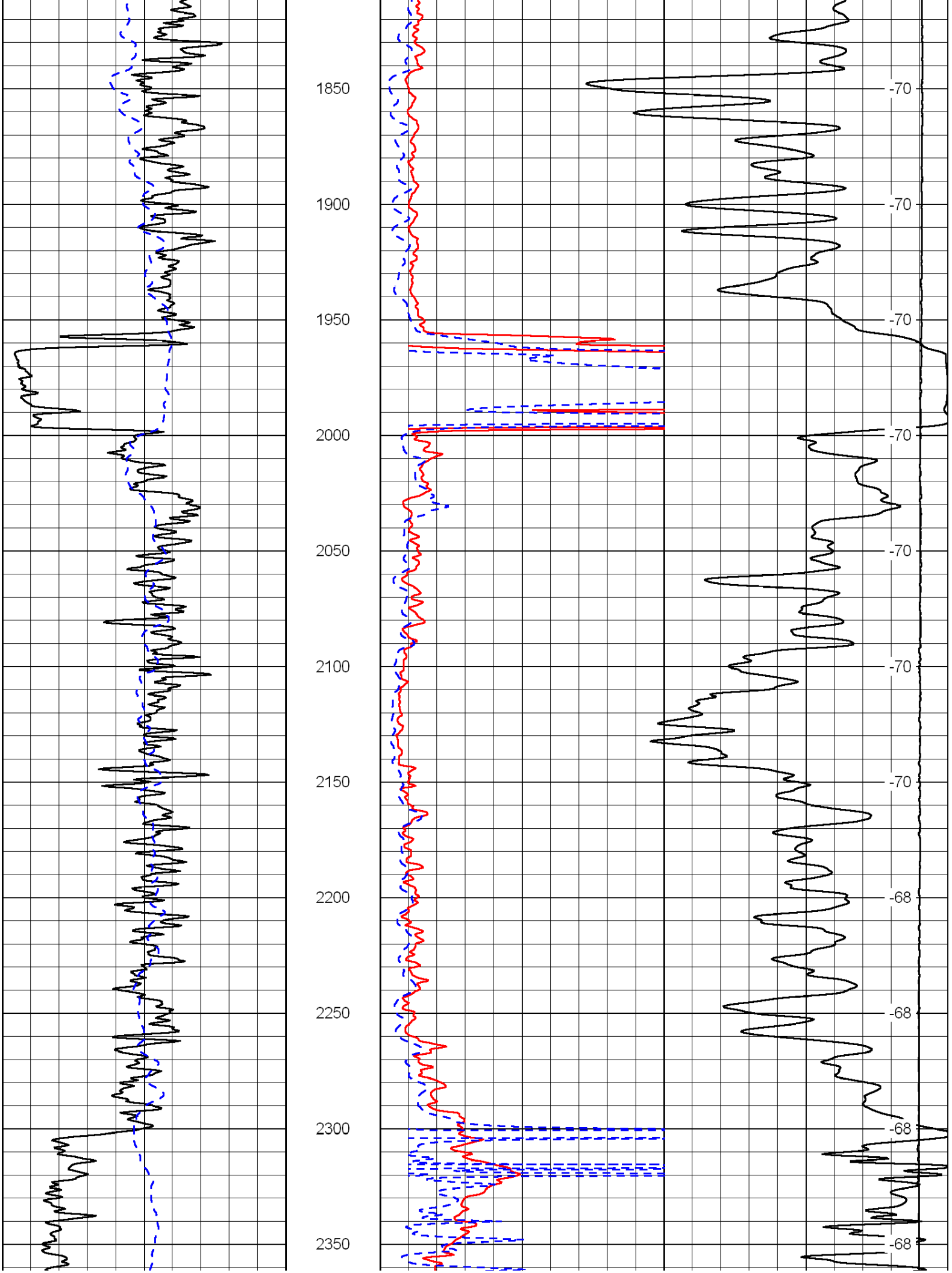
Wakeeney, North to H Road (Redline Road), 1 East to 270 Road, 2 South to F Road, 1/4 East, South Into

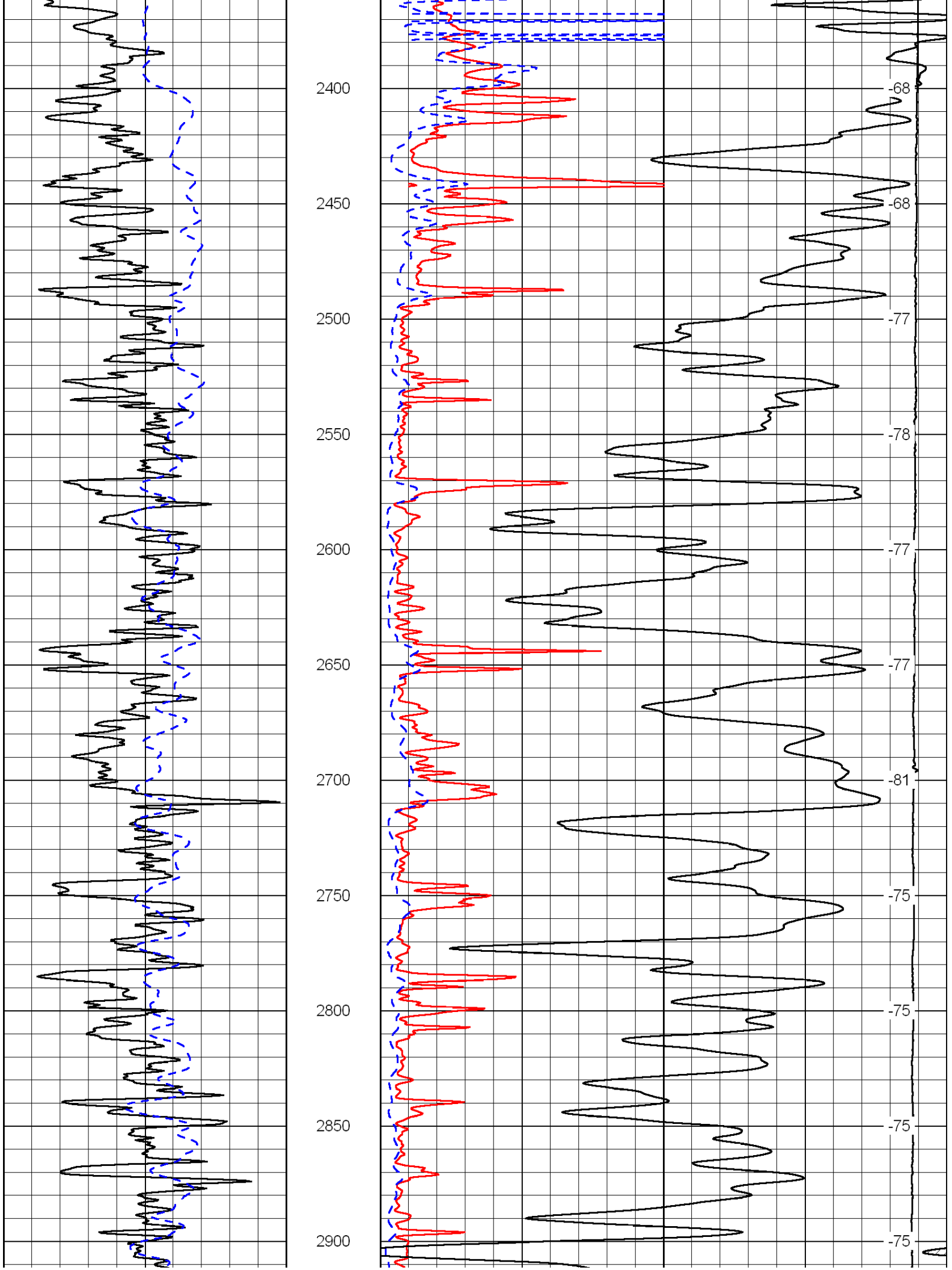
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Charted by:	Depth in Feet scaled 1:600

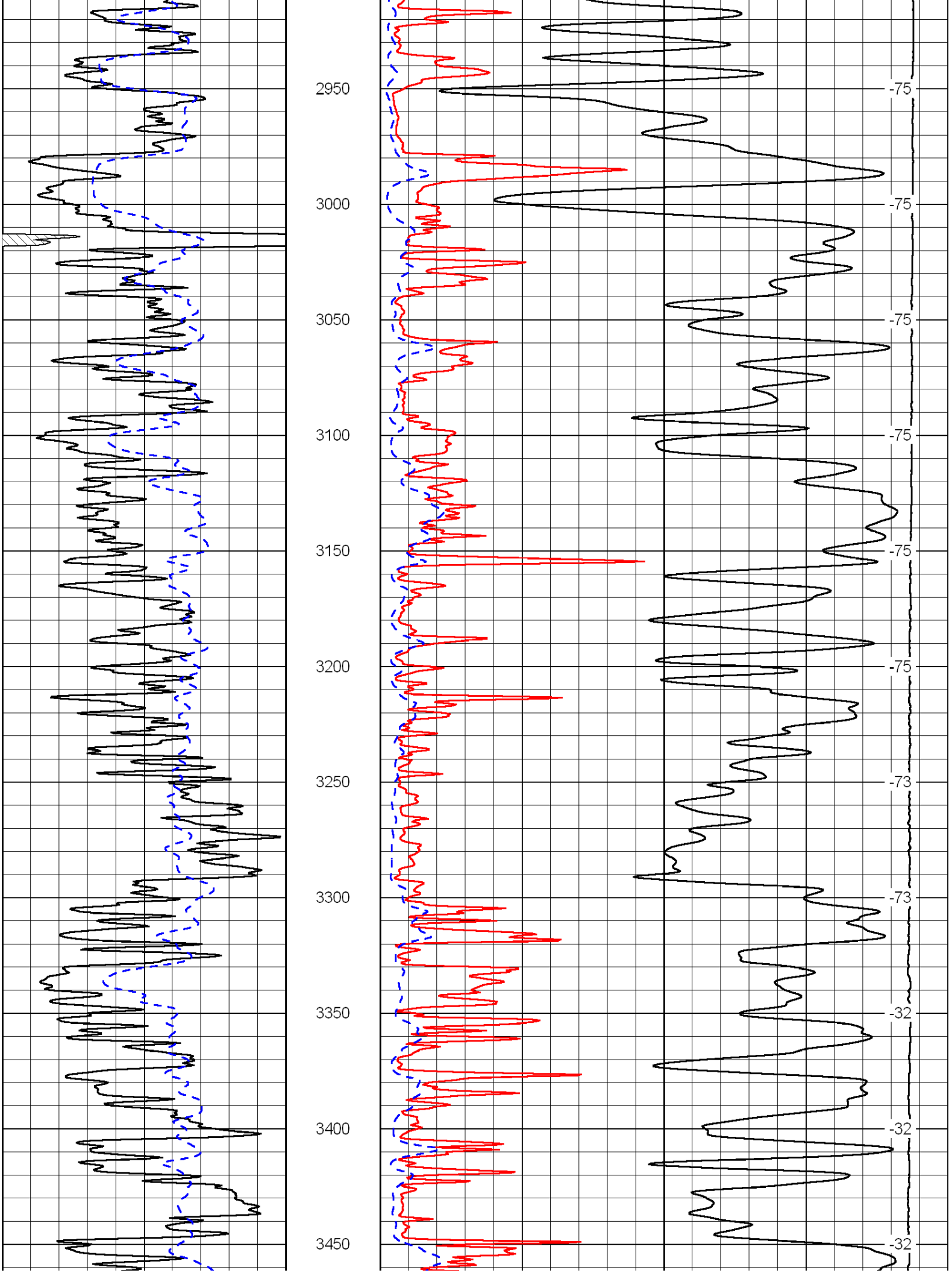

0 Gamma Ray 150
-200 SP (mV) 0
0 Shallow Resistivity 50
0 Deep Resistivity 50
1000 Conductivity 0
15000 Line Tension 0
50 Shallow Resistivity 500
50 Deep Resistivity 500
LSPD
250
300
350
400
450
500
550
600
650
700
-42
-42
-74
-74
-74
-74
-73
-71
-62
-62

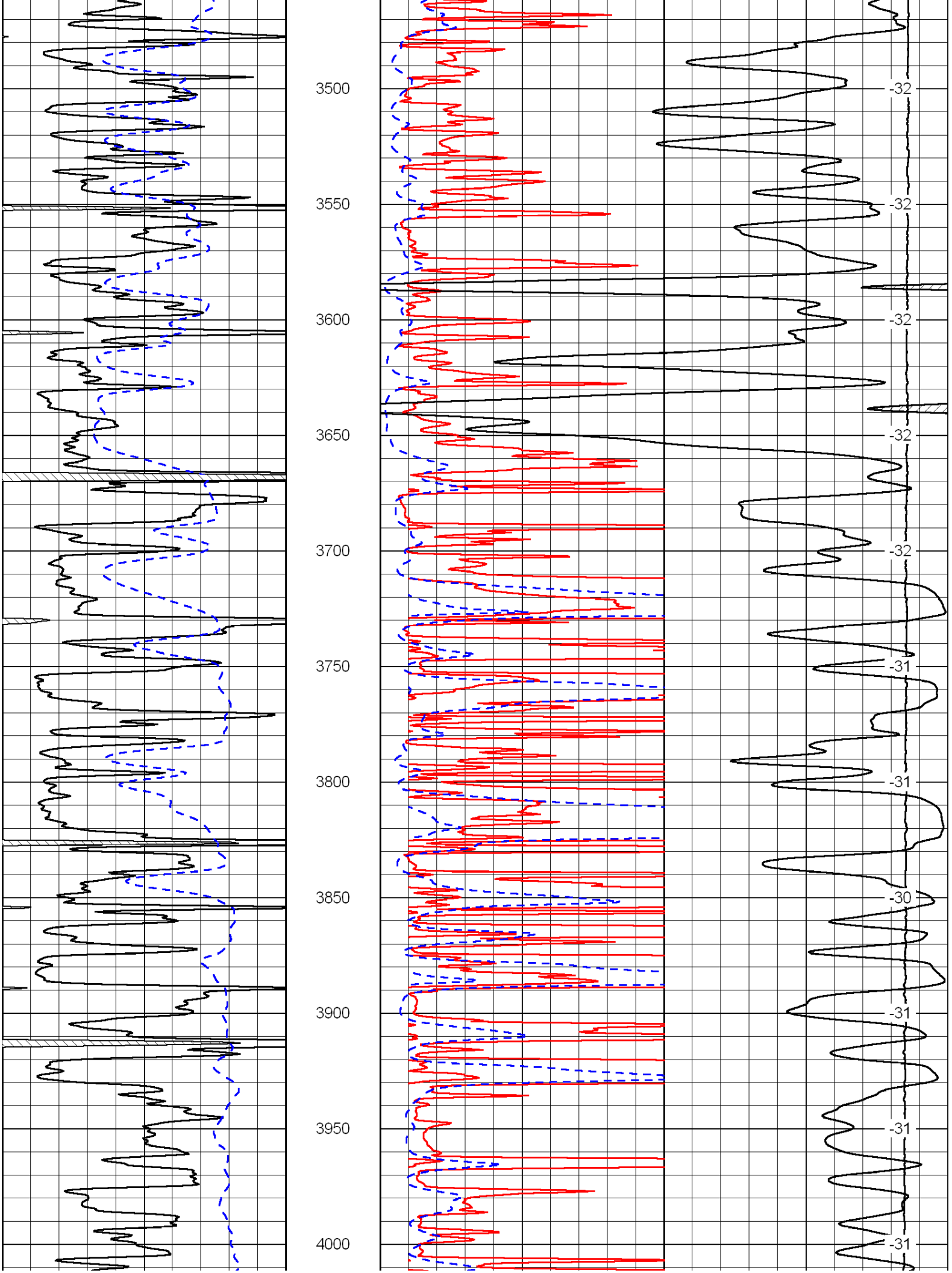

750
800
850
900
950
1000
1050
1100
1150
1200
1250
-62
-62
-62
-62
-62
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-62
-59
-60
-60

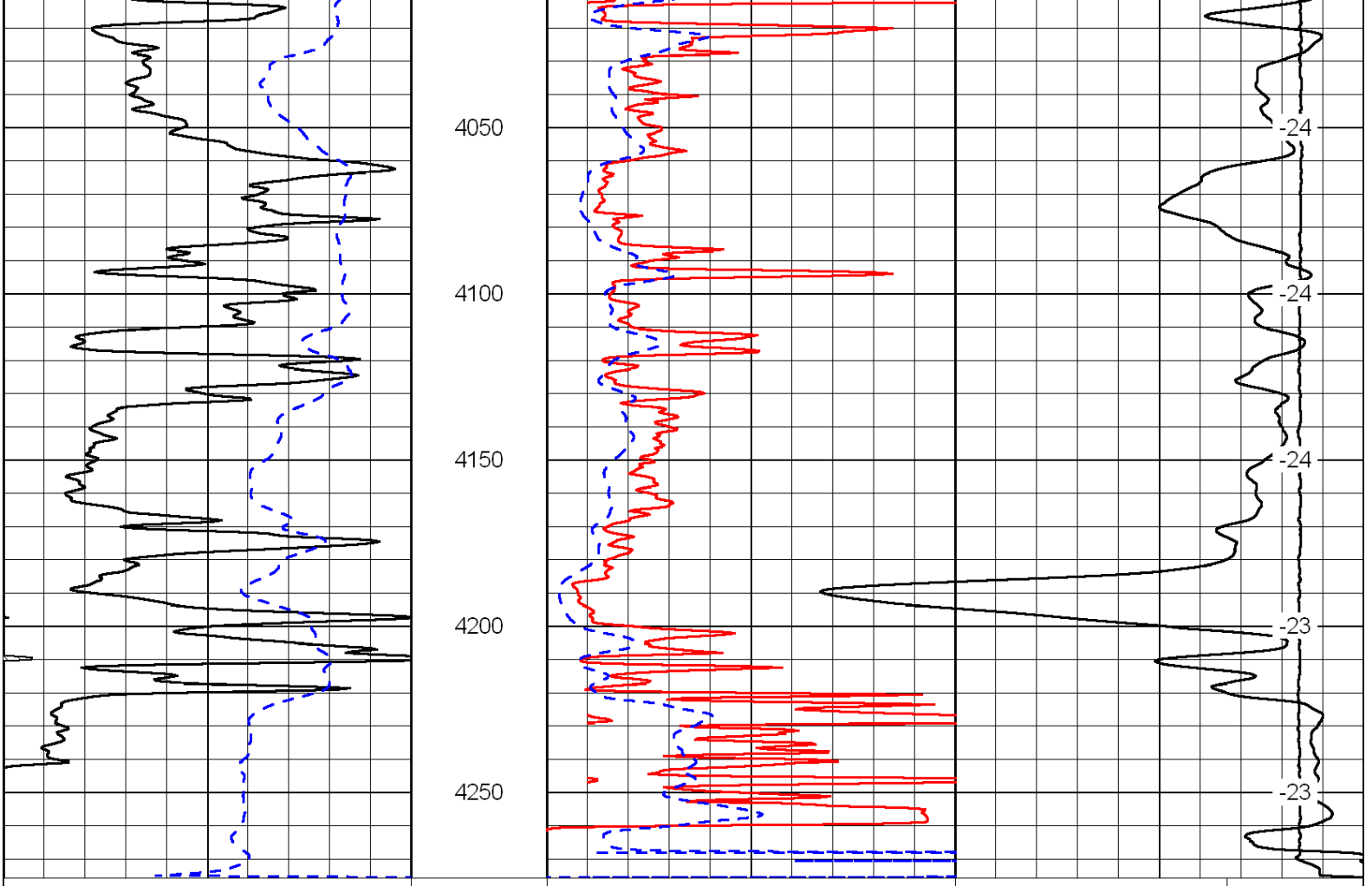

1300
1350
1400
1450
1500
1550
1600
1650
1700
1750
1800
-73
-73
-73
-73
-73
-73
-72
-71
-70
-70


1850
1900
1950
2000
2050
2100
2150
2200
2250
2300
2350
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-68
-68
-68
-68

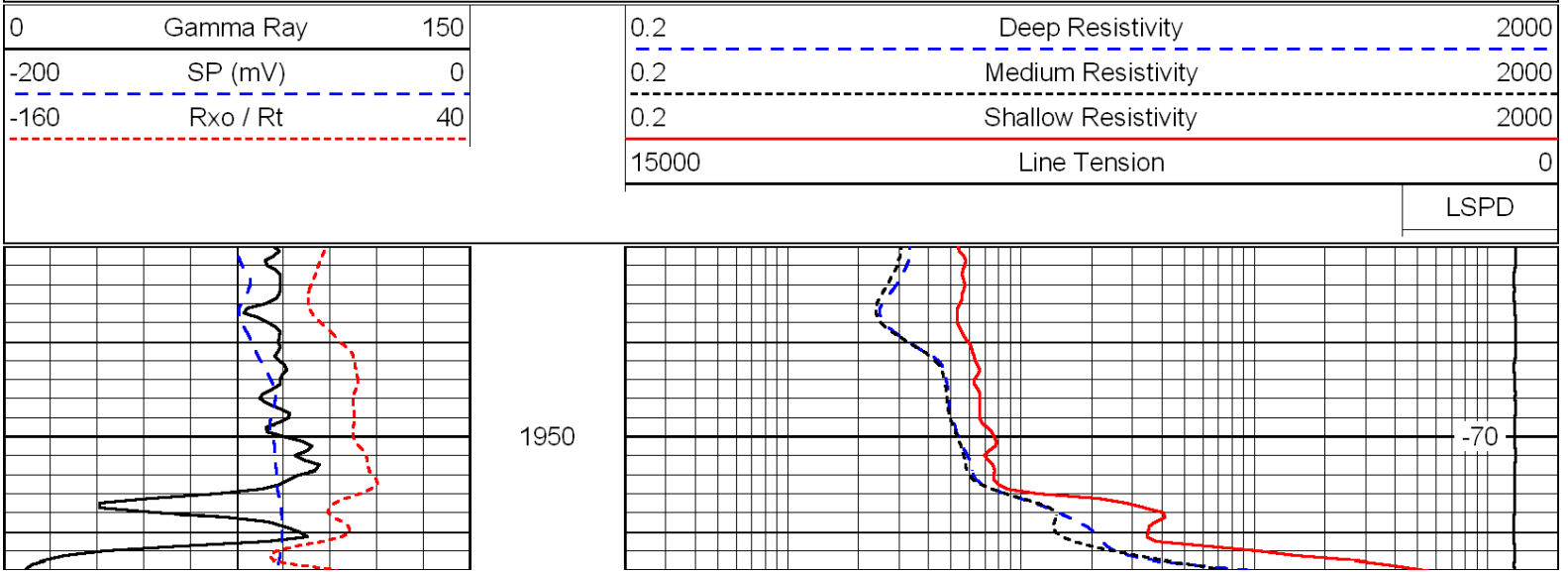

2400
2450
2500
2550
2600
2650
2700
2750
2800
2850
2900
-68
-68
-77
-78
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-81
-75
-75
-75
-75

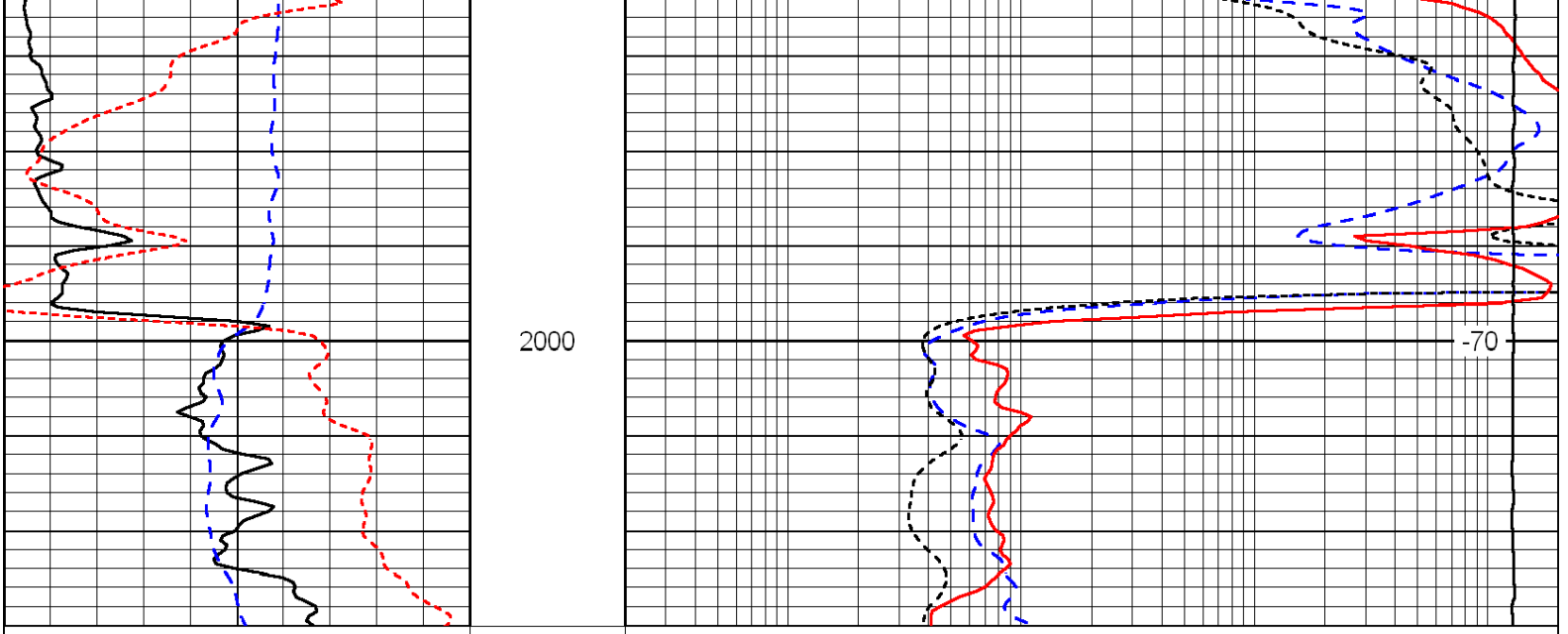

2950
3000
3050
3100
3150
3200
3250
3300
3350
3400
3450
-75
-75
-75
-75
-75
-73
-73
-32
-32
-32


3500
3550
3600
3650
3700
3750
3800
3850
3900
3950
4000
-32
-32
-32
-32
-32
-31
-31
-30
-31
-31
-31



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Dataset Pathname: dil/hcstck
Presentation Format: dil
Dataset Creation: Thu Oct 06 00:26:17 2011
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

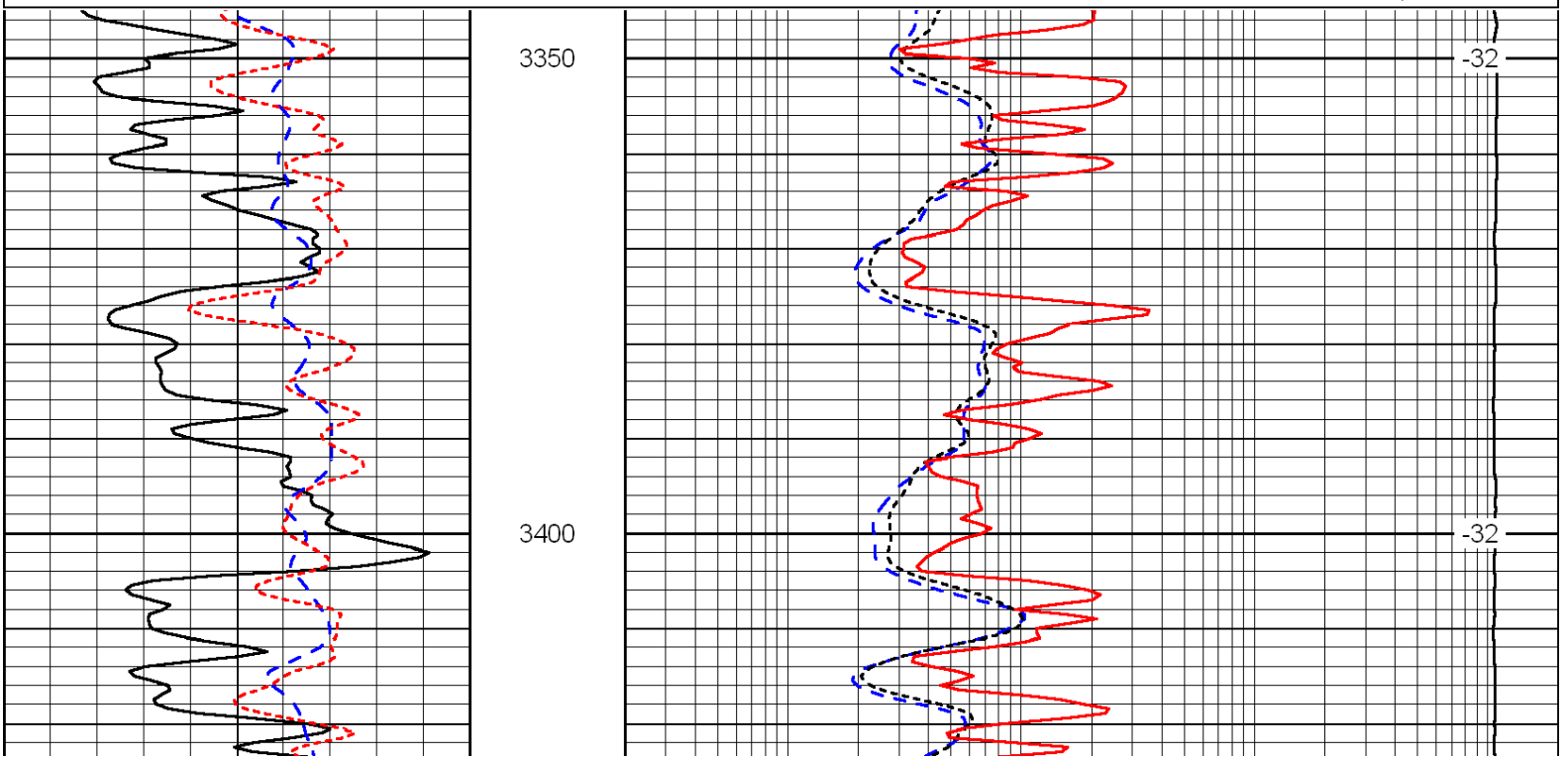
LSPD

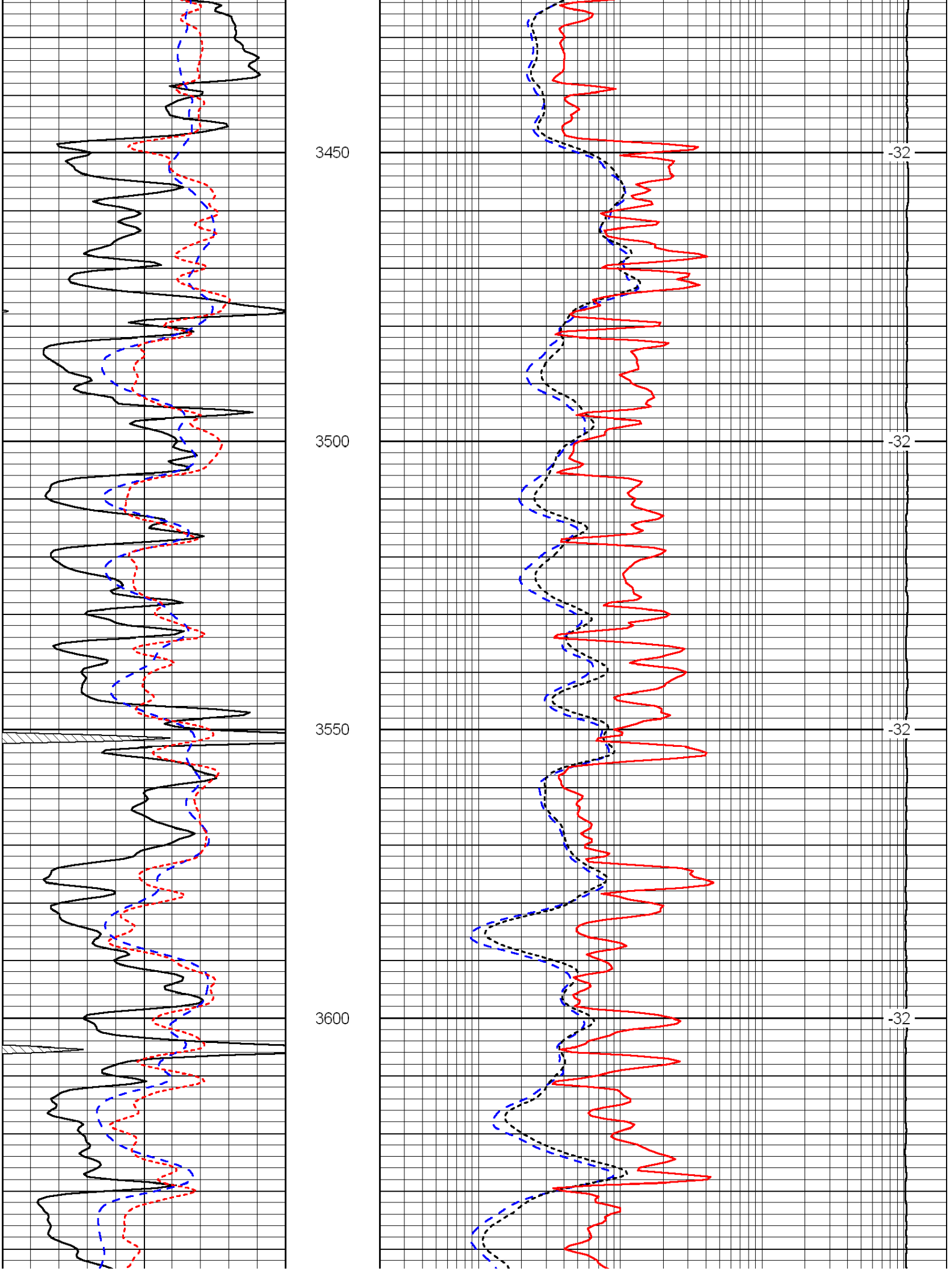
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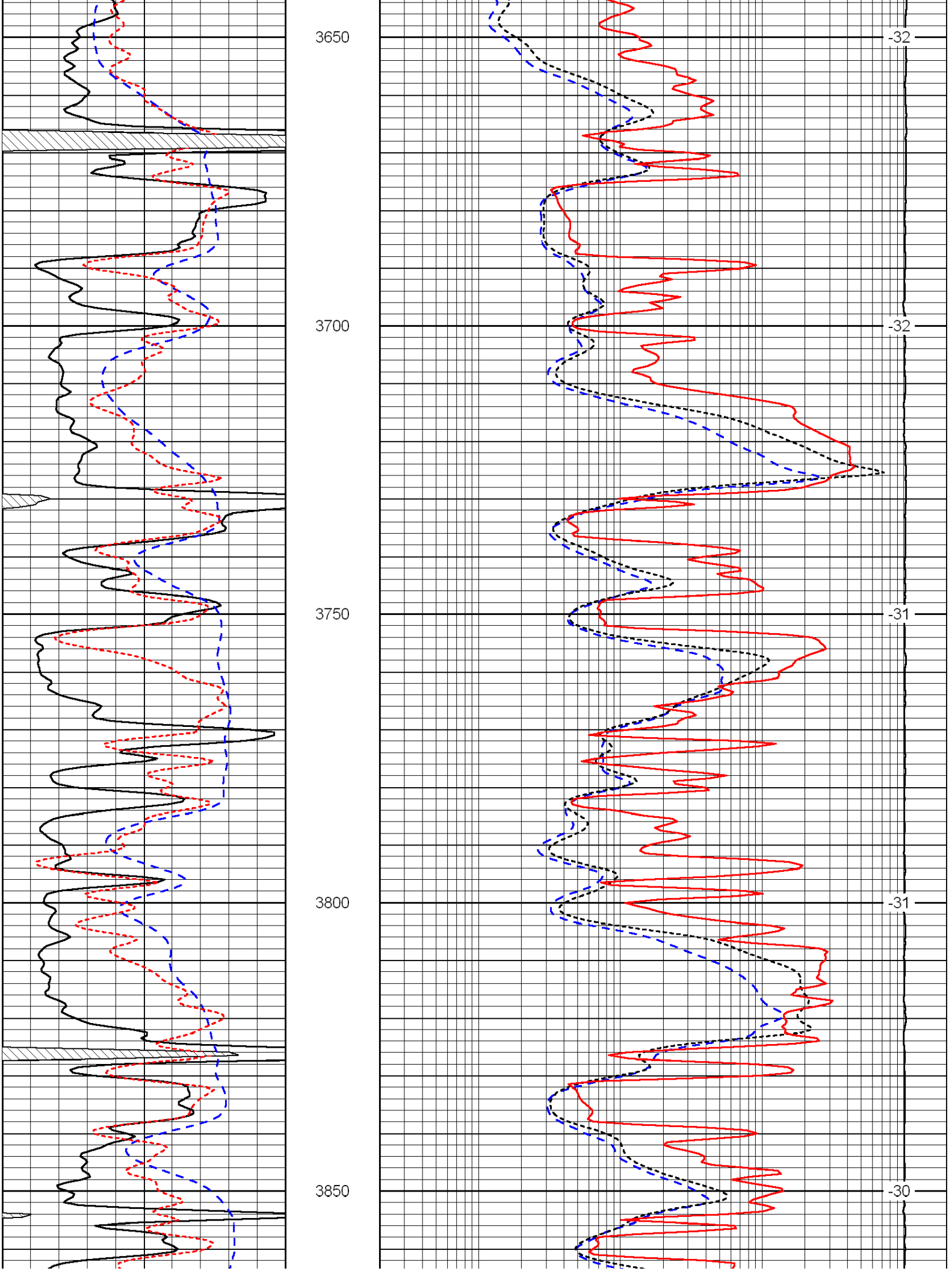
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-200	SP (mV)	0
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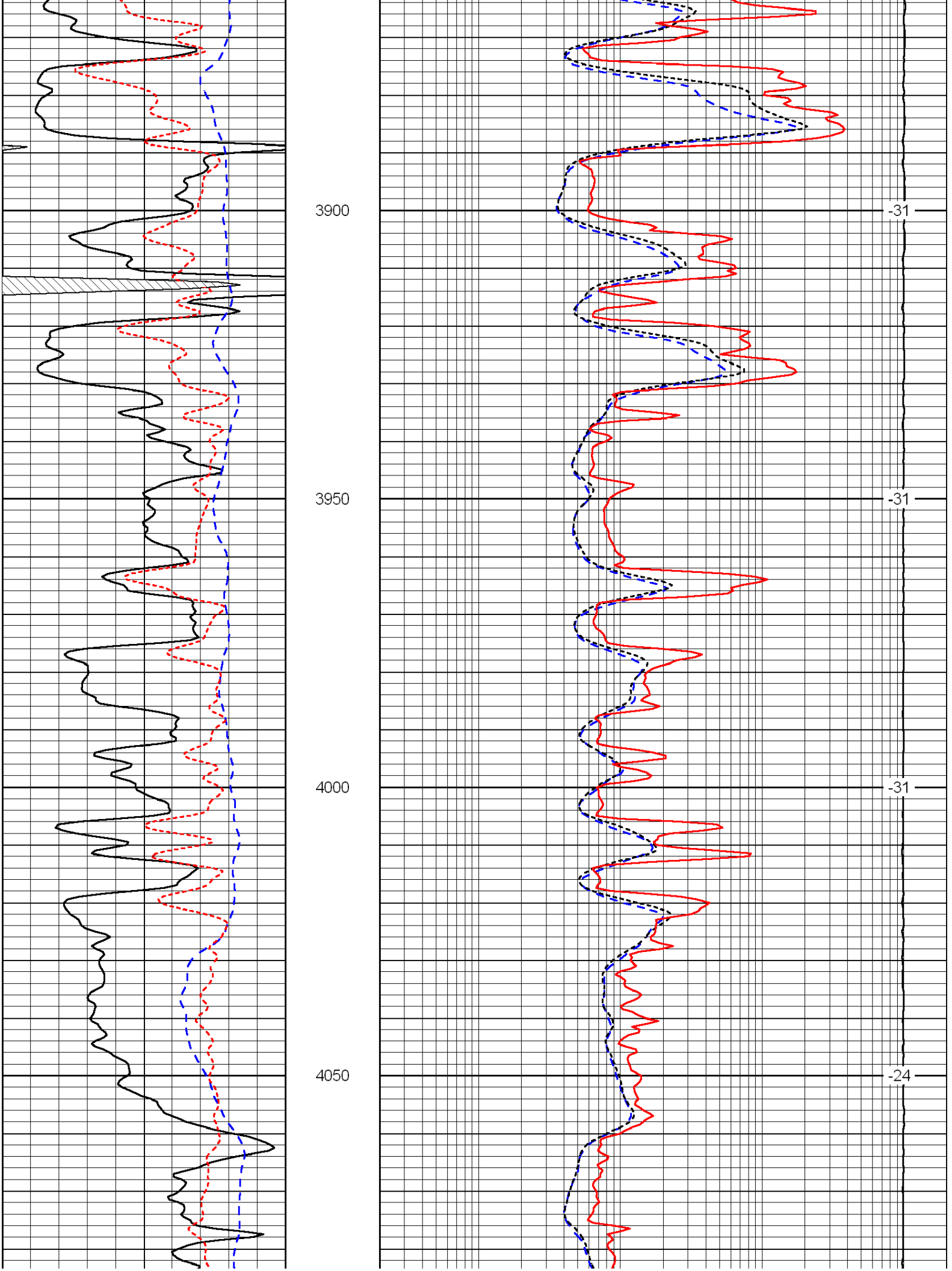
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0.2	Medium Resistivity	2000
0.2	Shallow Resistivity	2000
15000	Line Tension	0

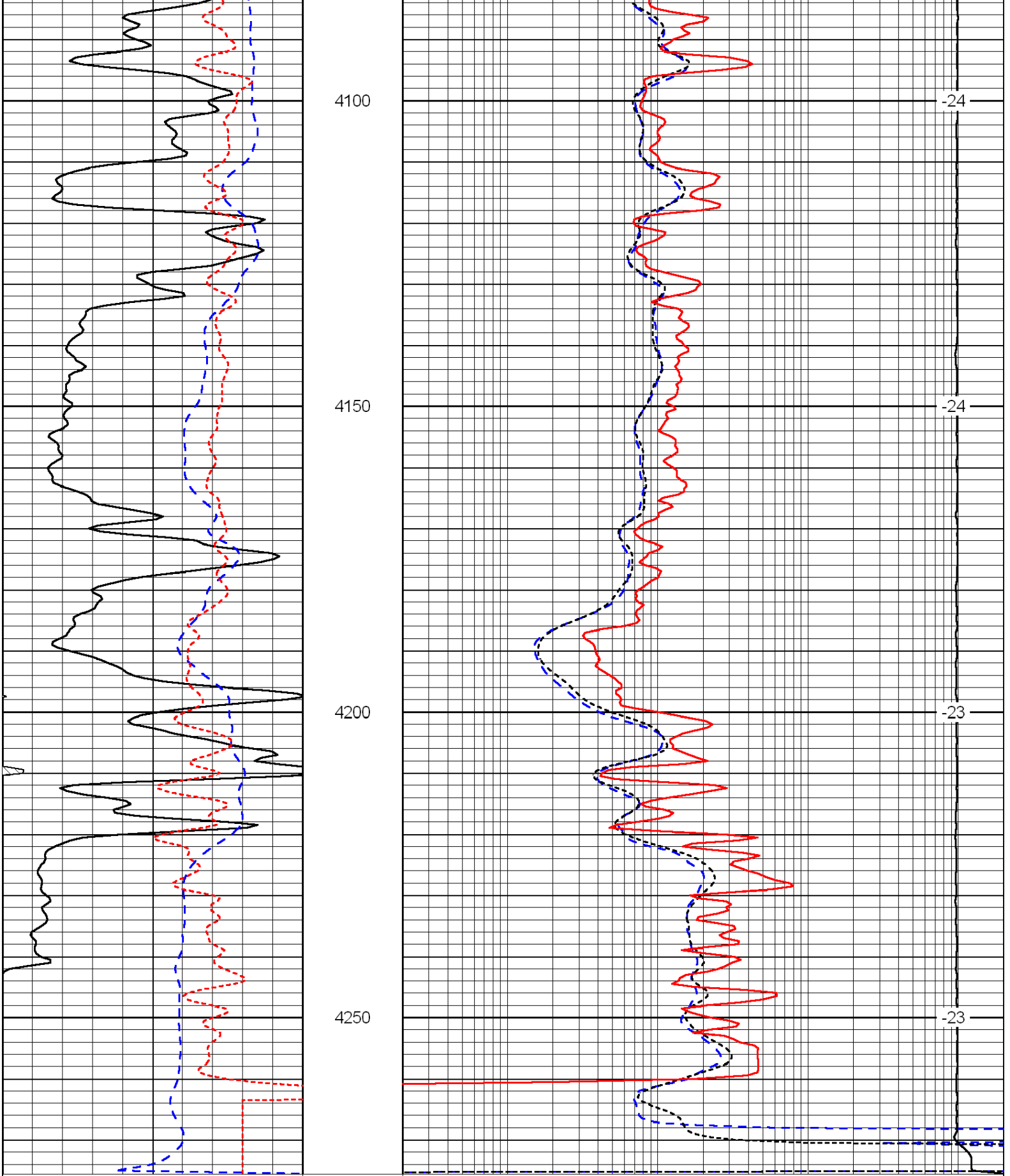
LSPD




3450
3500
3550
3600
-32
-32
-32
-32


3650
3700
3750
3800
3850
-32
-32
-31
-31
-30


3900
3950
4000
4050
-31
-31
-31
-24



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