PIONEER

Pioneer Energy Services

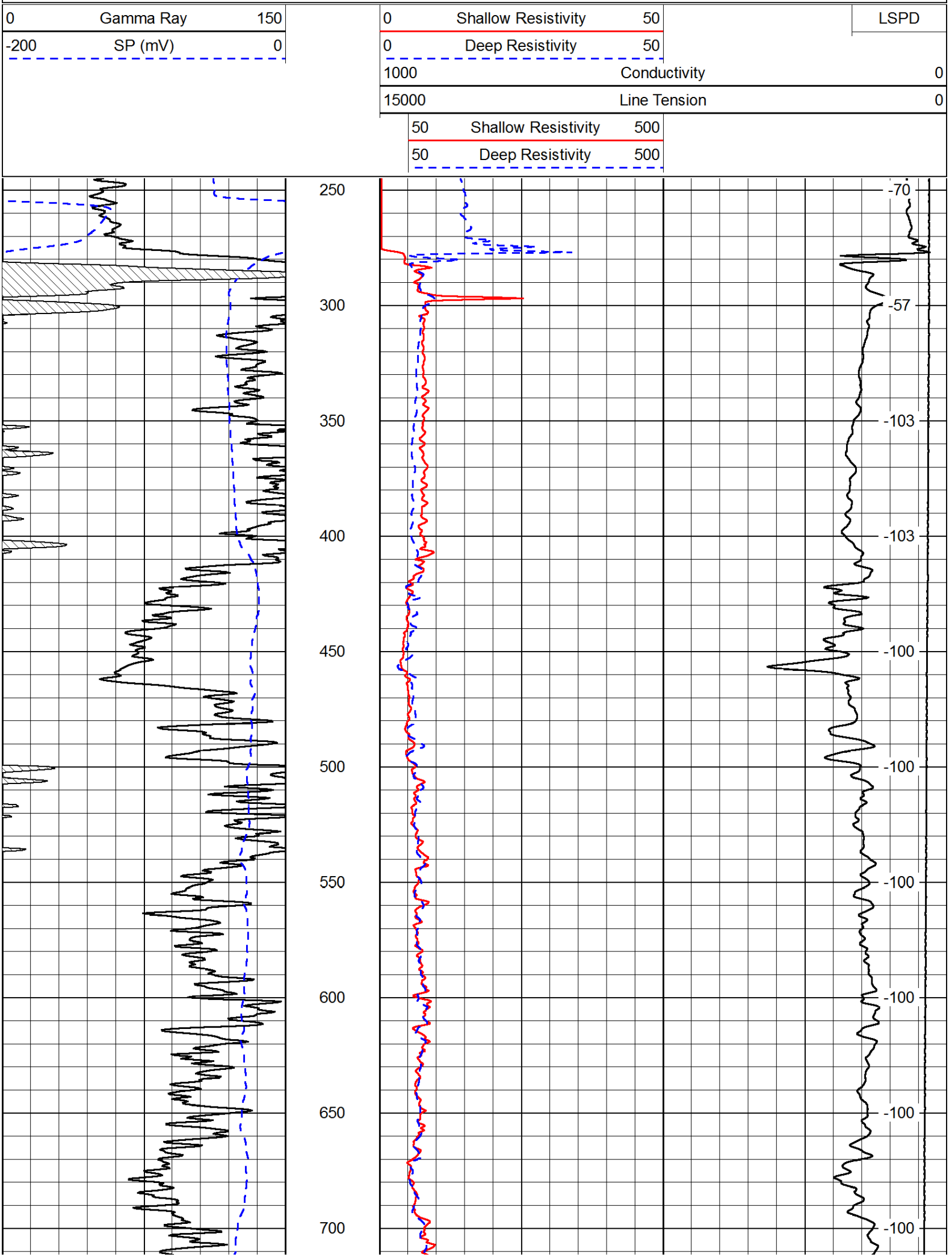
Dual Induction Log

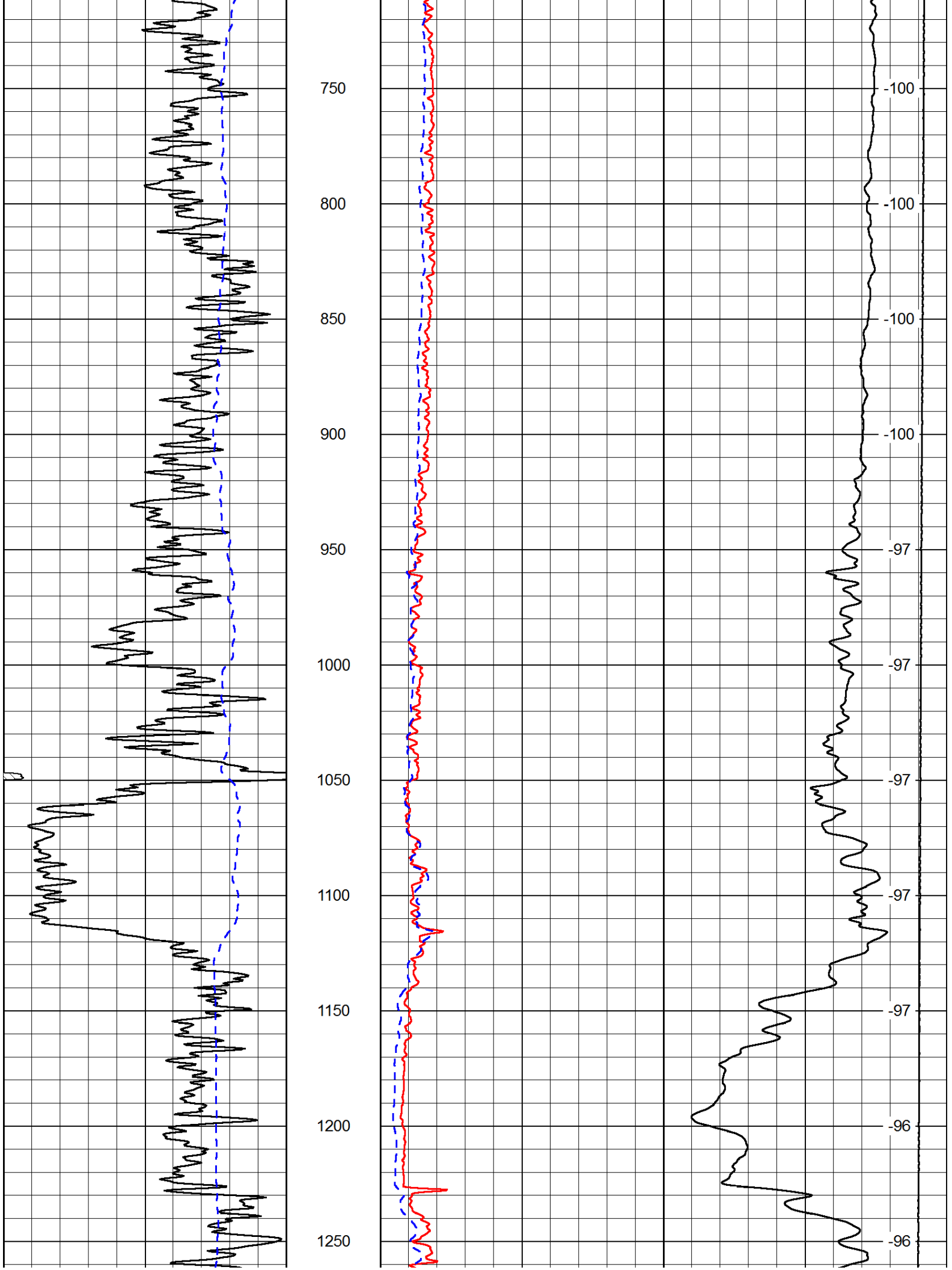
Company	Norstar Petroleum, Inc.
Well	BA Kern Trust # 1-30
Field	Unnamed
County	Thomas State Kansas
API No.	15-193-20904-00-00
Location	2232' FSL & 840' FEL
	Sec: 30 Twp: 10 S Rge: 34 W
Permanent Datum	Ground Level Elevation 3243
Log Measured From	Kelly Bushing 10 Ft. Above Perm. Datum
Drilling Measured From	Kelly Bushing

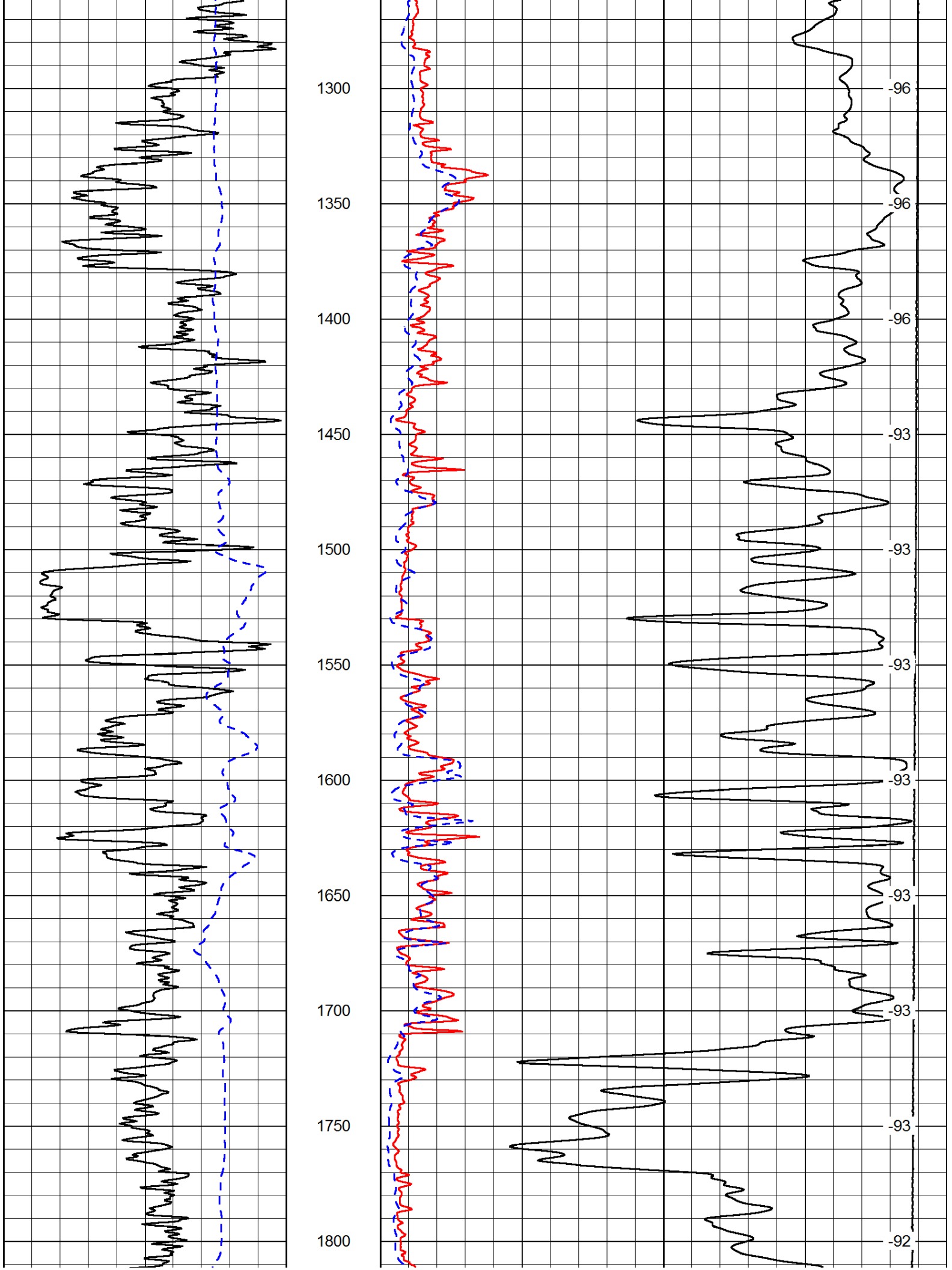
Other Services: CNL/CDL, MEL

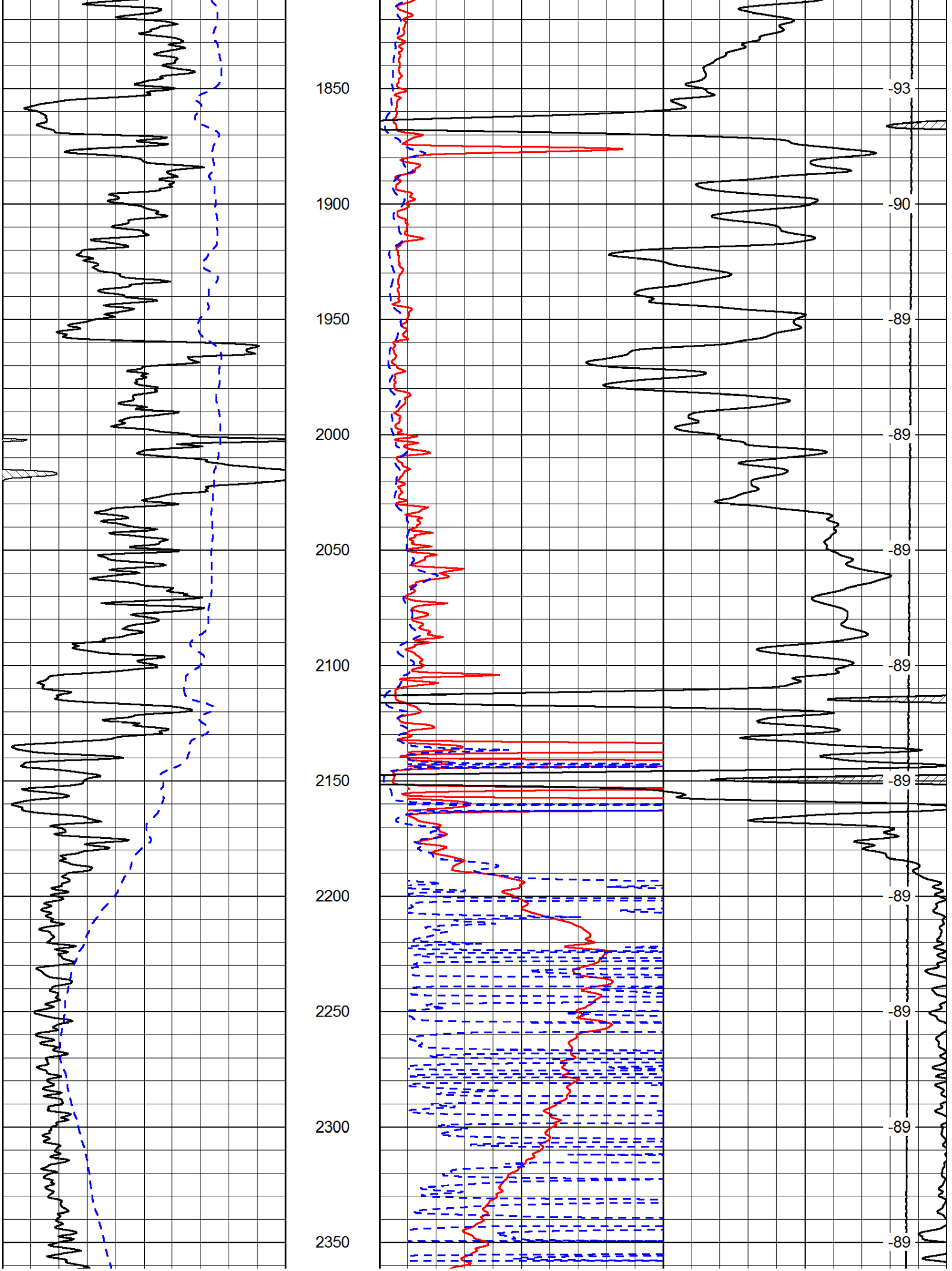
Elevation: K.B. 3253, D.F., G.L. 3243

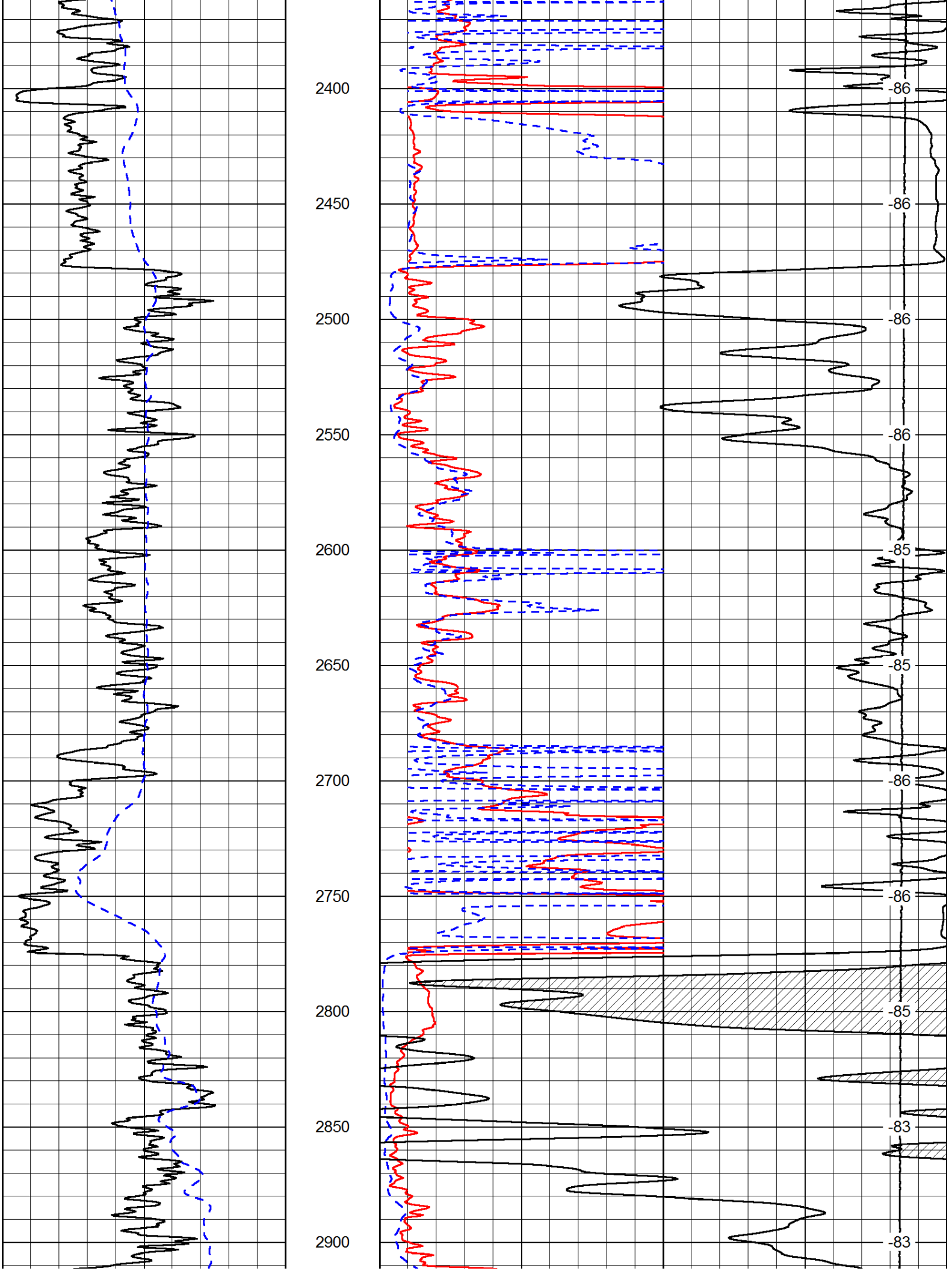
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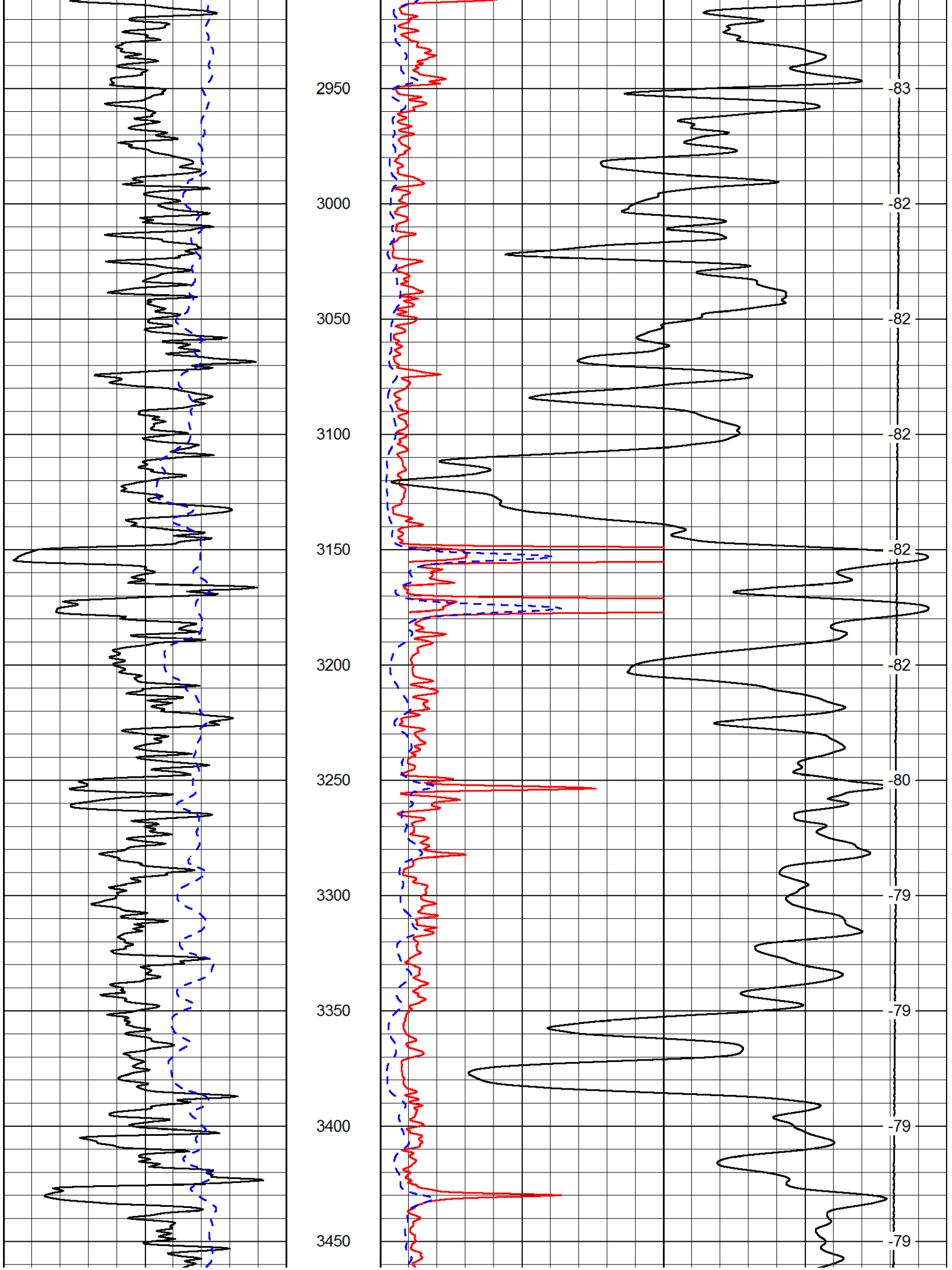

0 Gamma Ray 150
-200 SP (mV) 0
0 Shallow Resistivity 50
0 Deep Resistivity 50
1000 Conductivity 0
15000 Line Tension 0
50 Shallow Resistivity 500
50 Deep Resistivity 500
LSPD
250
300
350
400
450
500
550
600
650
700
-70
-57
-103
-103
-100
-100
-100
-100
-100

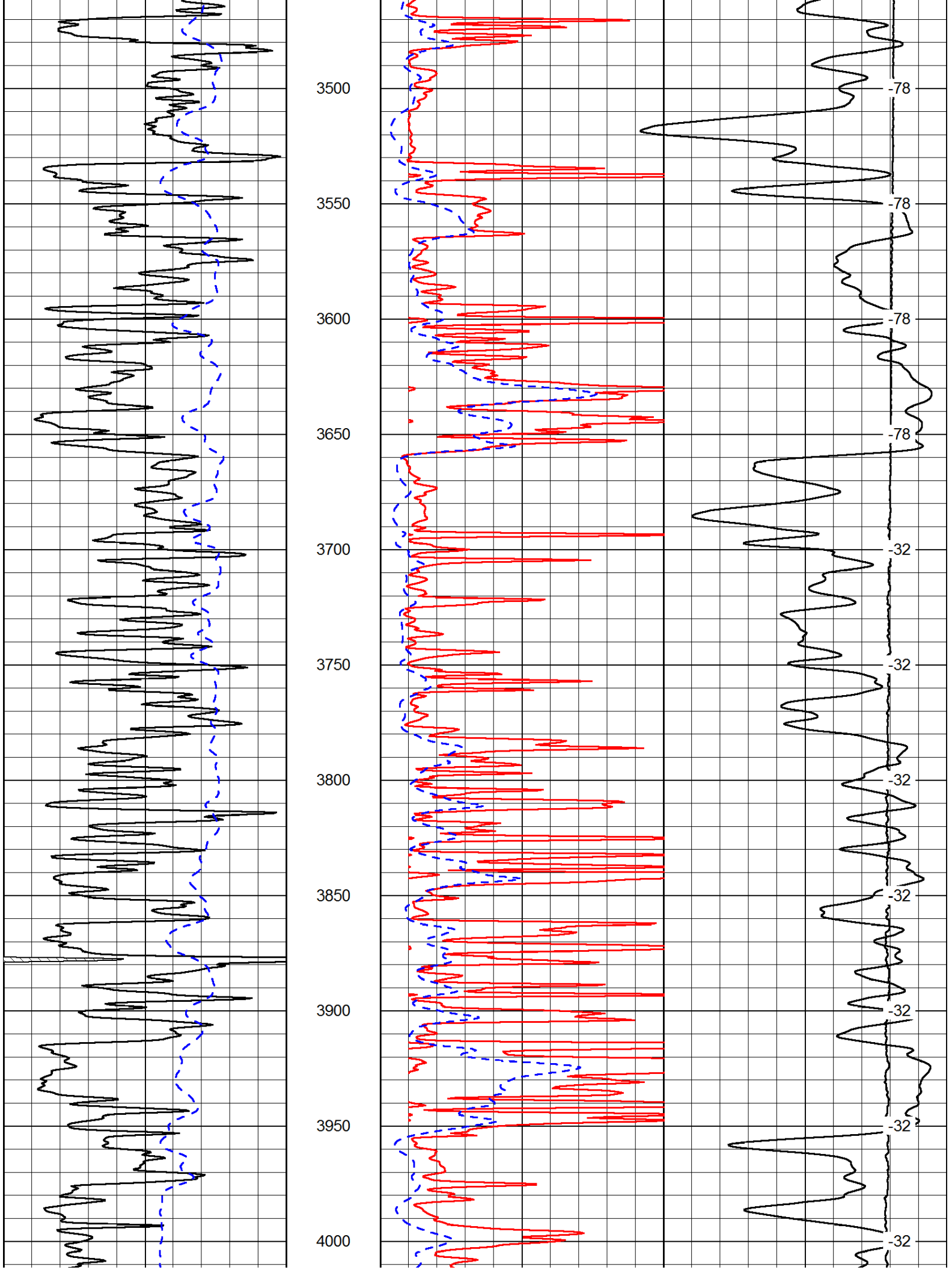

750
800
850
900
950
1000
1050
1100
1150
1200
1250
-100
-100
-100
-97
-97
-97
-97
-96
-96

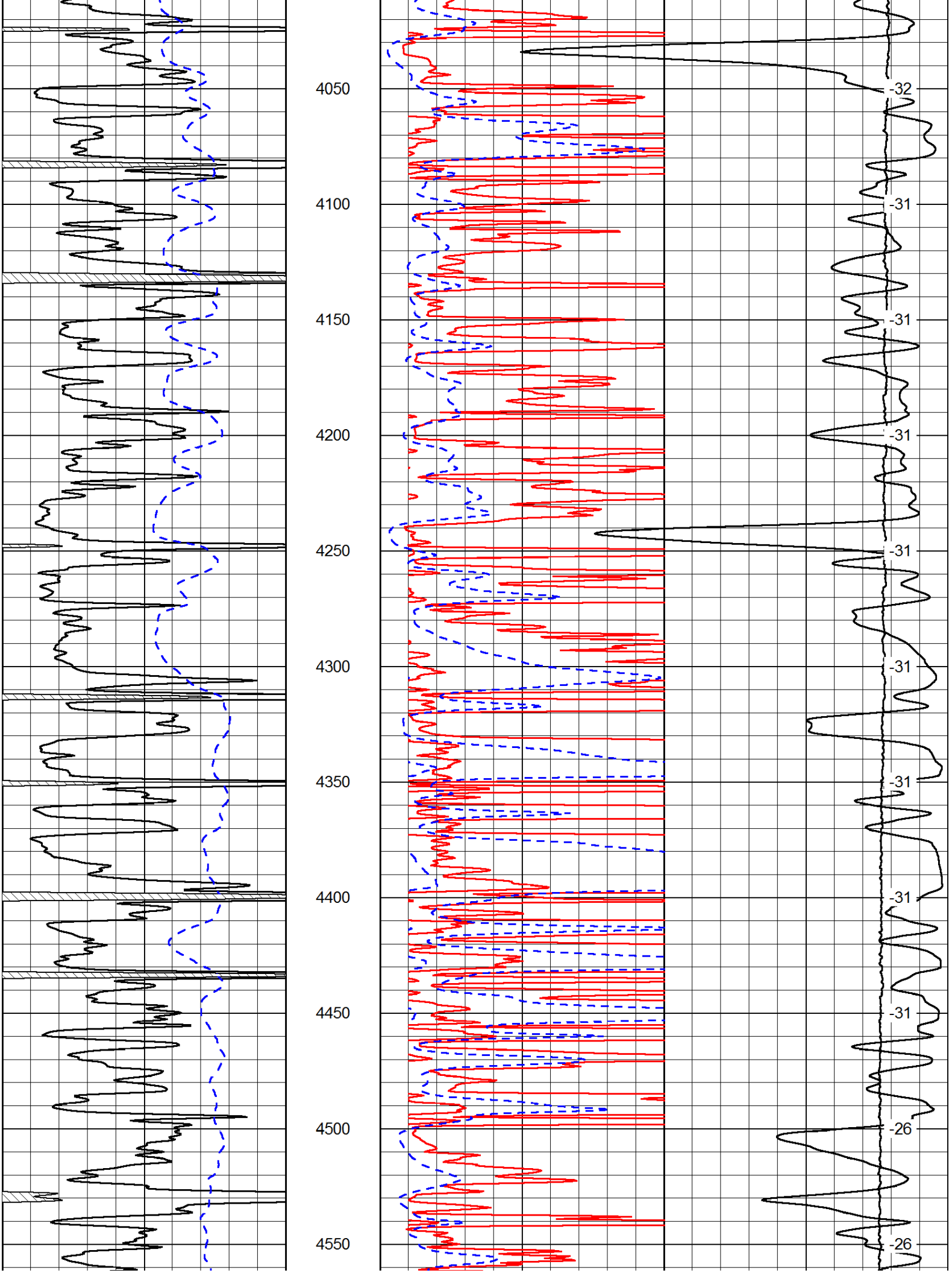

1300
1350
1400
1450
1500
1550
1600
1650
1700
1750
1800
-96
-96
-96
-93
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-93
-93
-93
-93
-93
-92

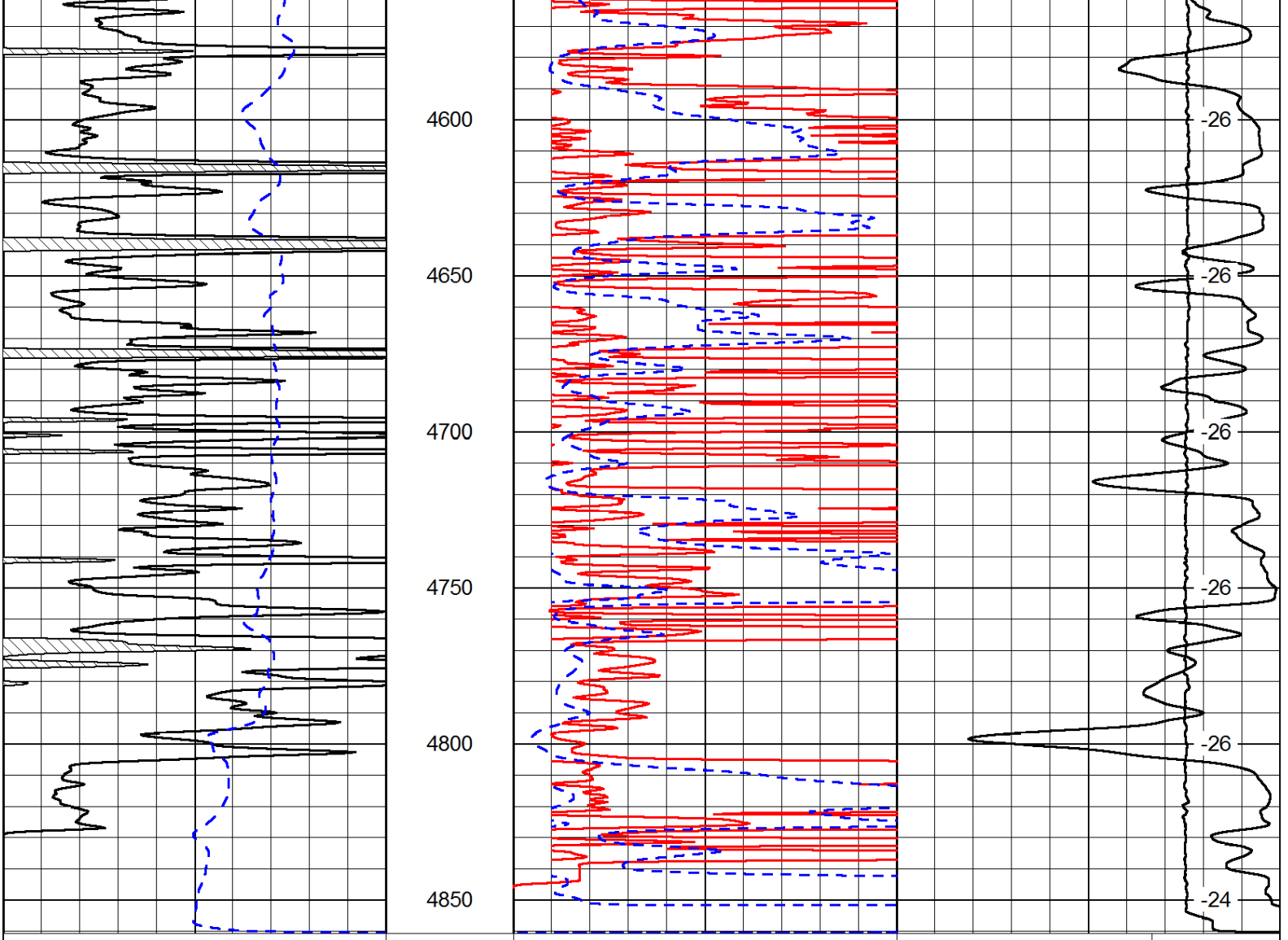

1850
1900
1950
2000
2050
2100
2150
2200
2250
2300
2350
-93
-90
-89
-89
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-89
-89
-89
-89
-89
-89


2400
2450
2500
2550
2600
2650
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-86
-85
-83
-83

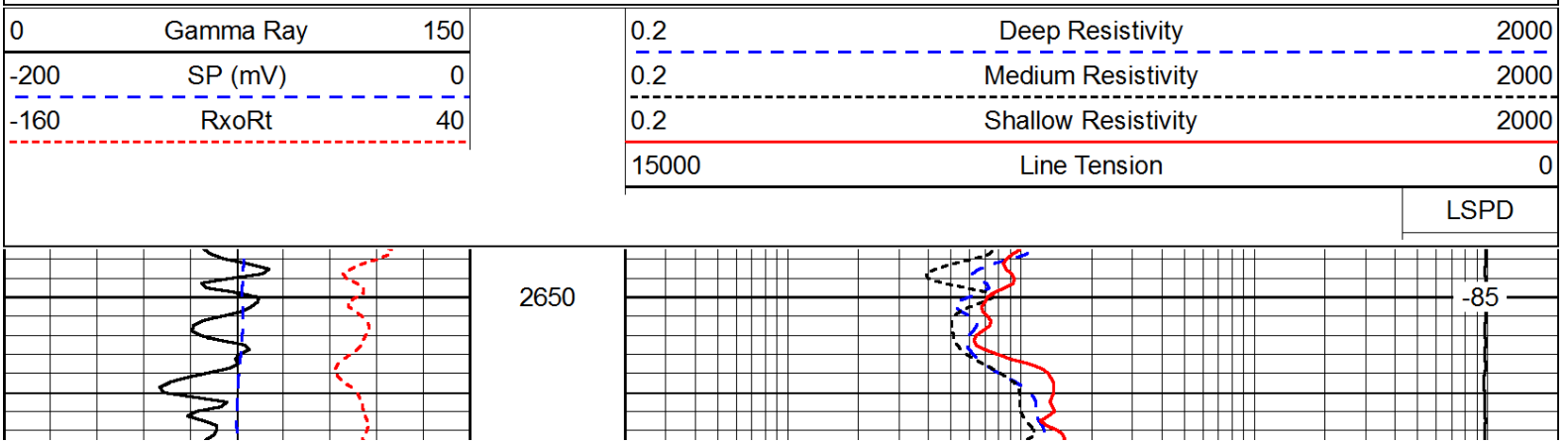

2950
3000
3050
3100
3150
3200
3250
3300
3350
3400
3450
-83
-82
-82
-82
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-79
-79
-79
-79

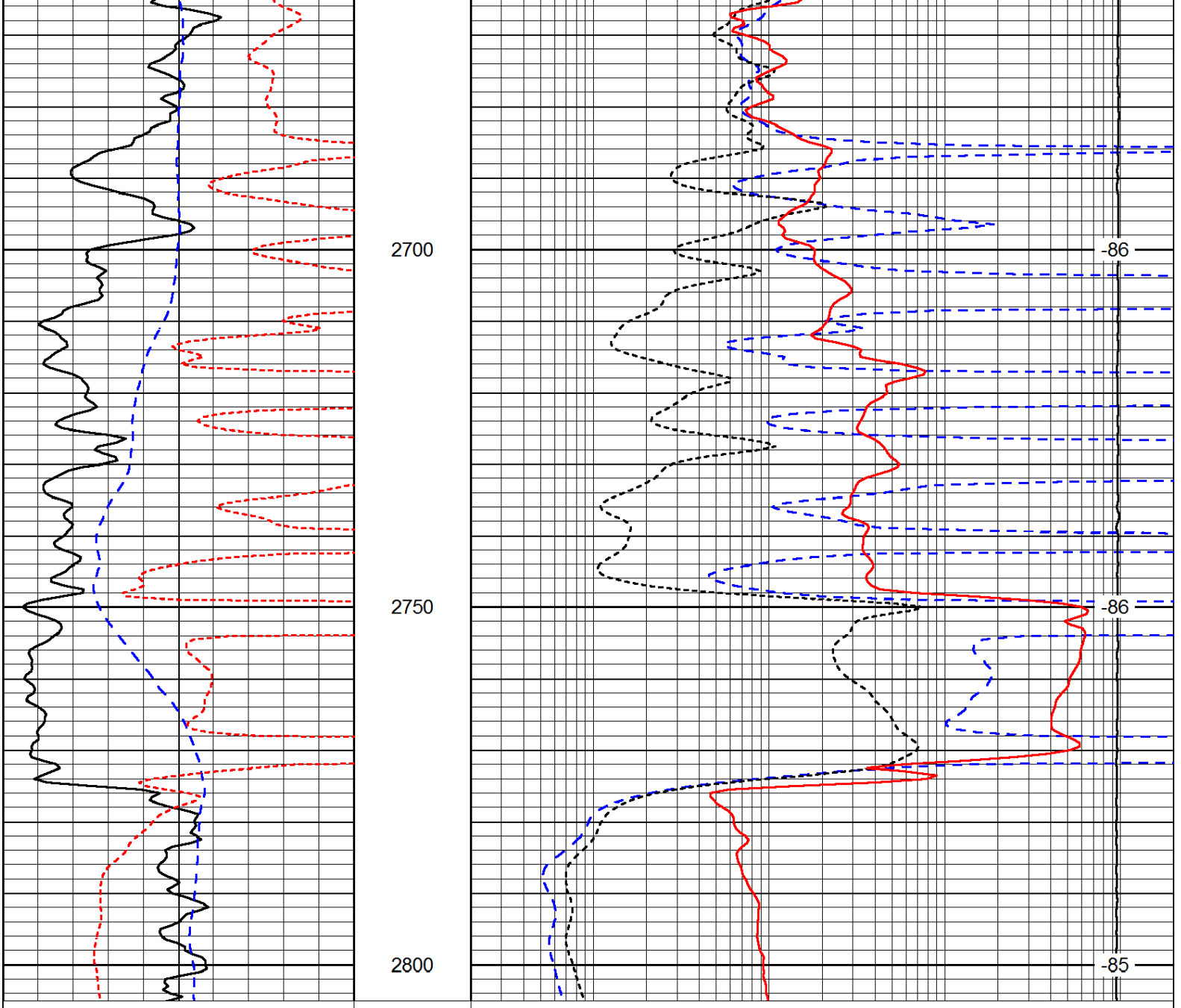

3500
3550
3600
3650
3700
3750
3800
3850
3900
3950
4000
-78
-78
-78
-32
-32
-32
-32
-32
-32


4050
4100
4150
4200
4250
4300
4350
4400
4450
4500
4550
-32
-31
-31
-31
-31
-31
-31
-31
-31
-26
-26



Database File: c:\warrior\data\norstar_ba kern trust #1-30\norstar_010814hd.db
Dataset Pathname: DIL/norstk
Presentation Format: dil
Dataset Creation: Thu Jan 09 00:35:15 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

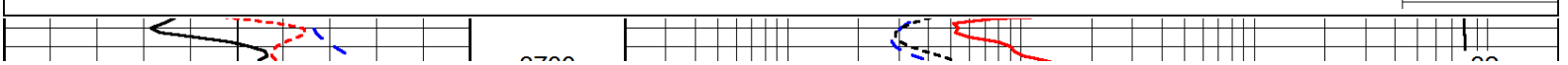
LSPD

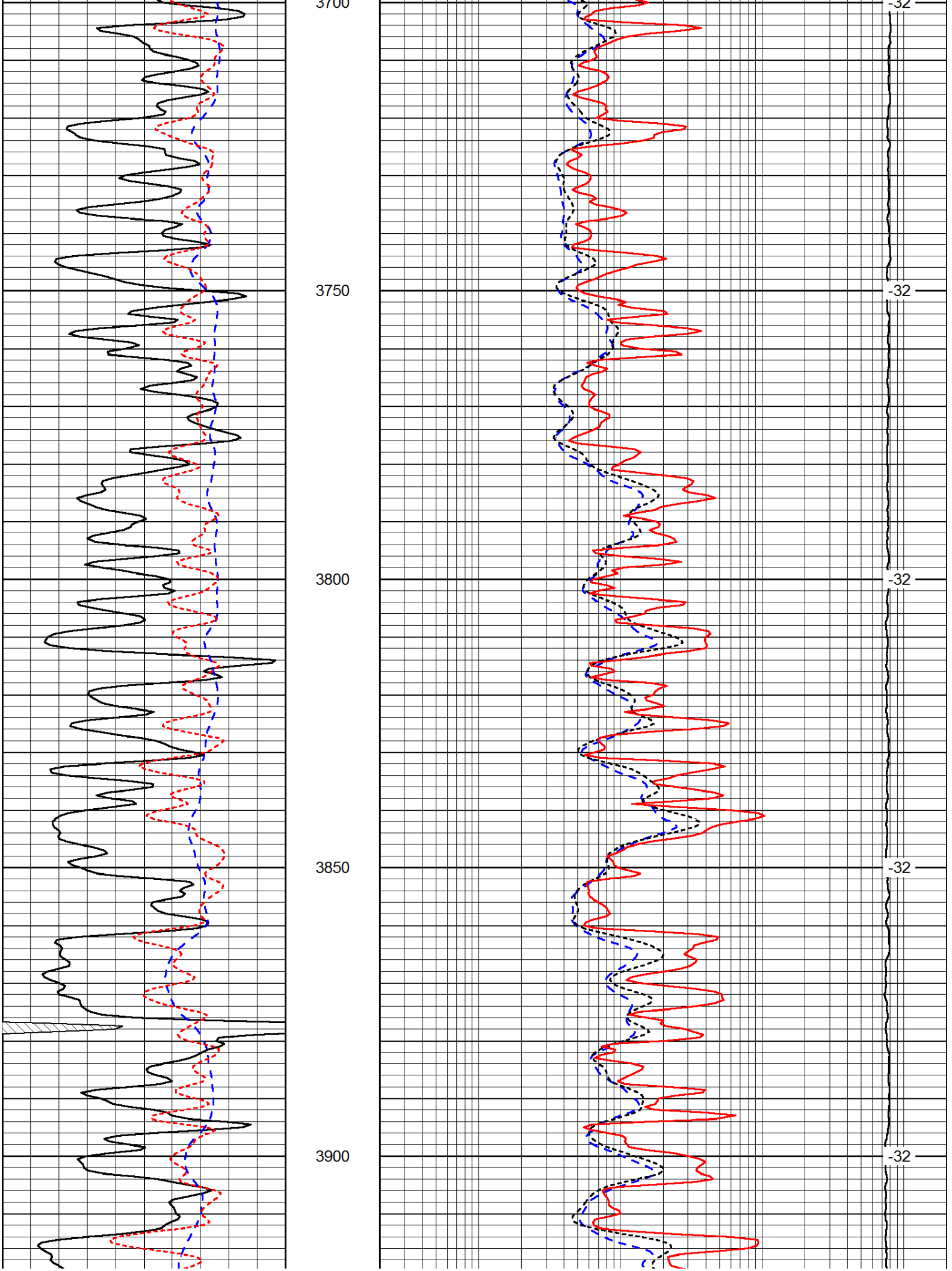
Database File:	c:\warrior\data\norstar_ba kern trust #1-30\norstar_010814hd.db
Dataset Pathname:	DIL/norstk
Presentation Format:	dil
Dataset Creation:	Thu Jan 09 00:35:15 2014
Charted by:	Depth in Feet scaled 1:240

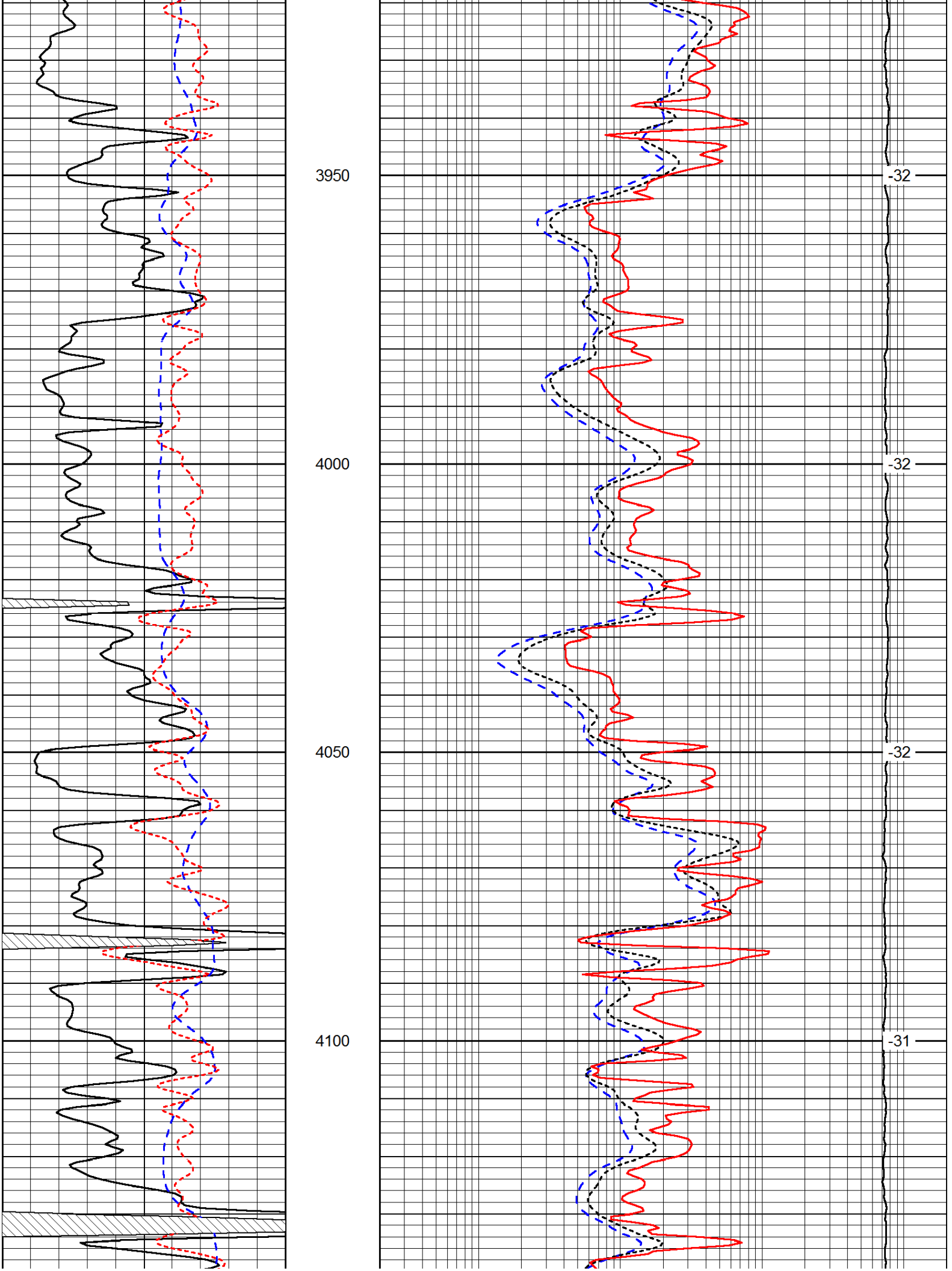
0	Gamma Ray	150
-200	SP (mV)	0
-160	RxoRt	40

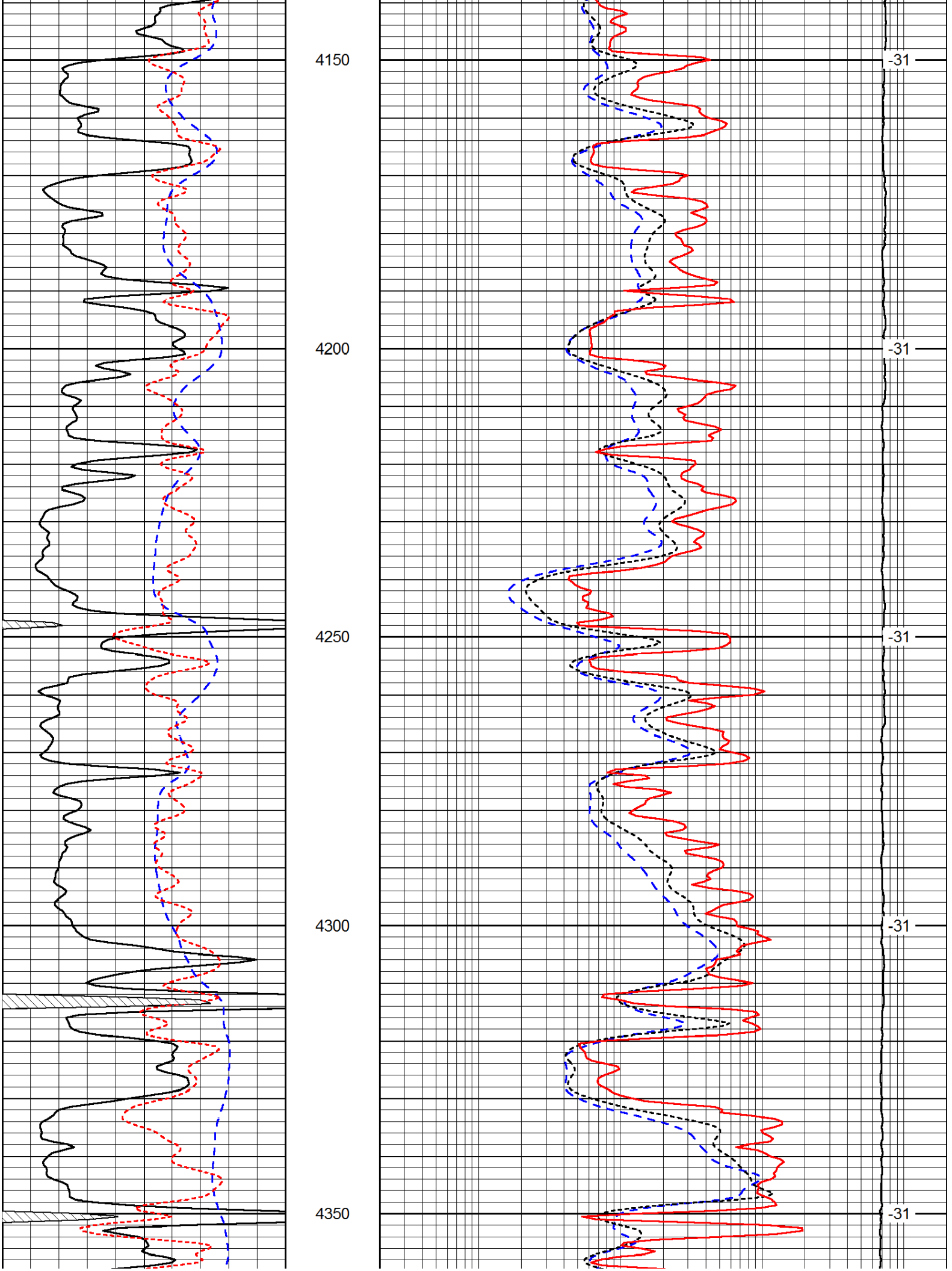
0.2	Deep Resistivity	2000
0.2	Medium Resistivity	2000
0.2	Shallow Resistivity	2000
15000	Line Tension	0

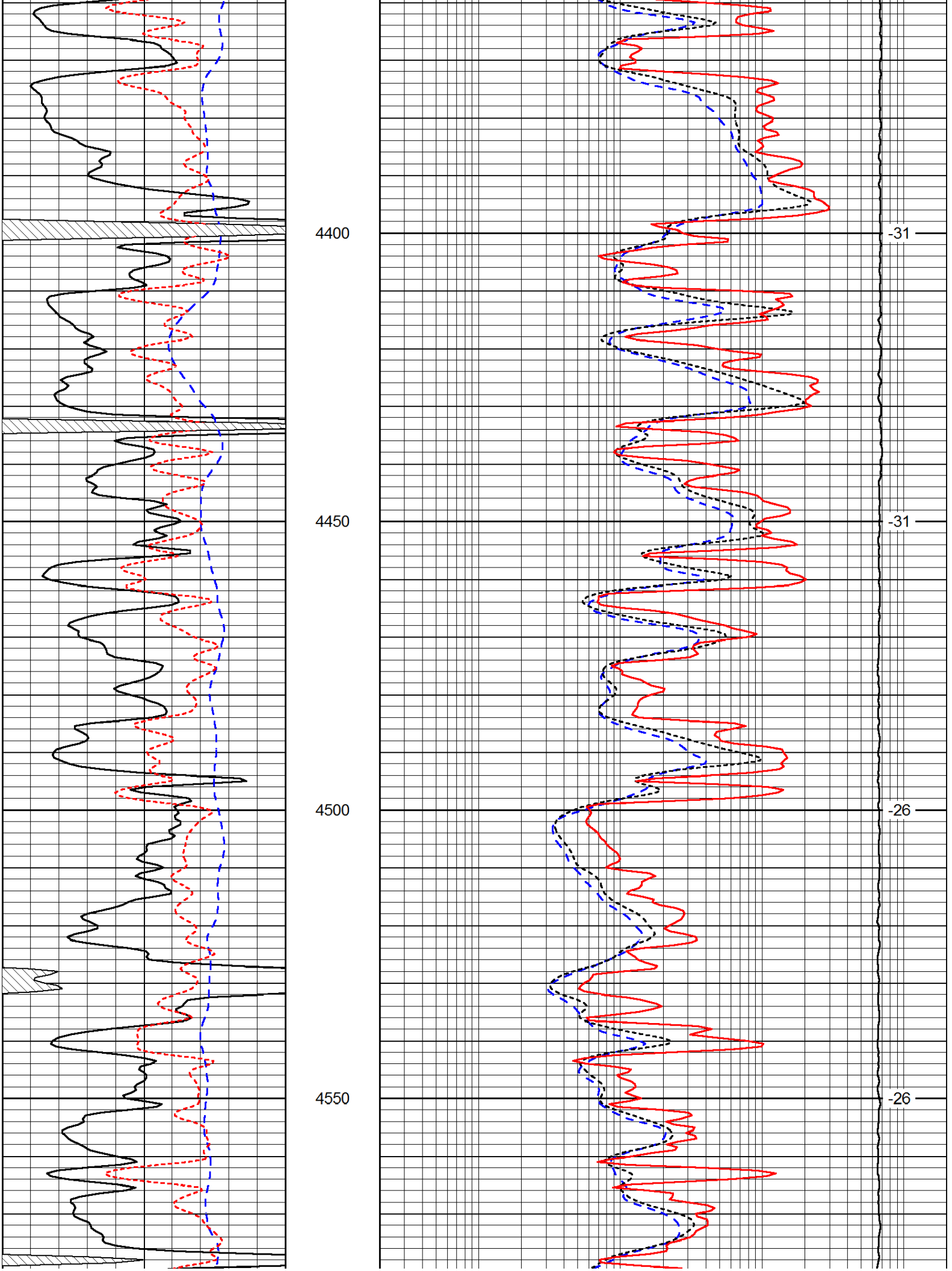
LSPD

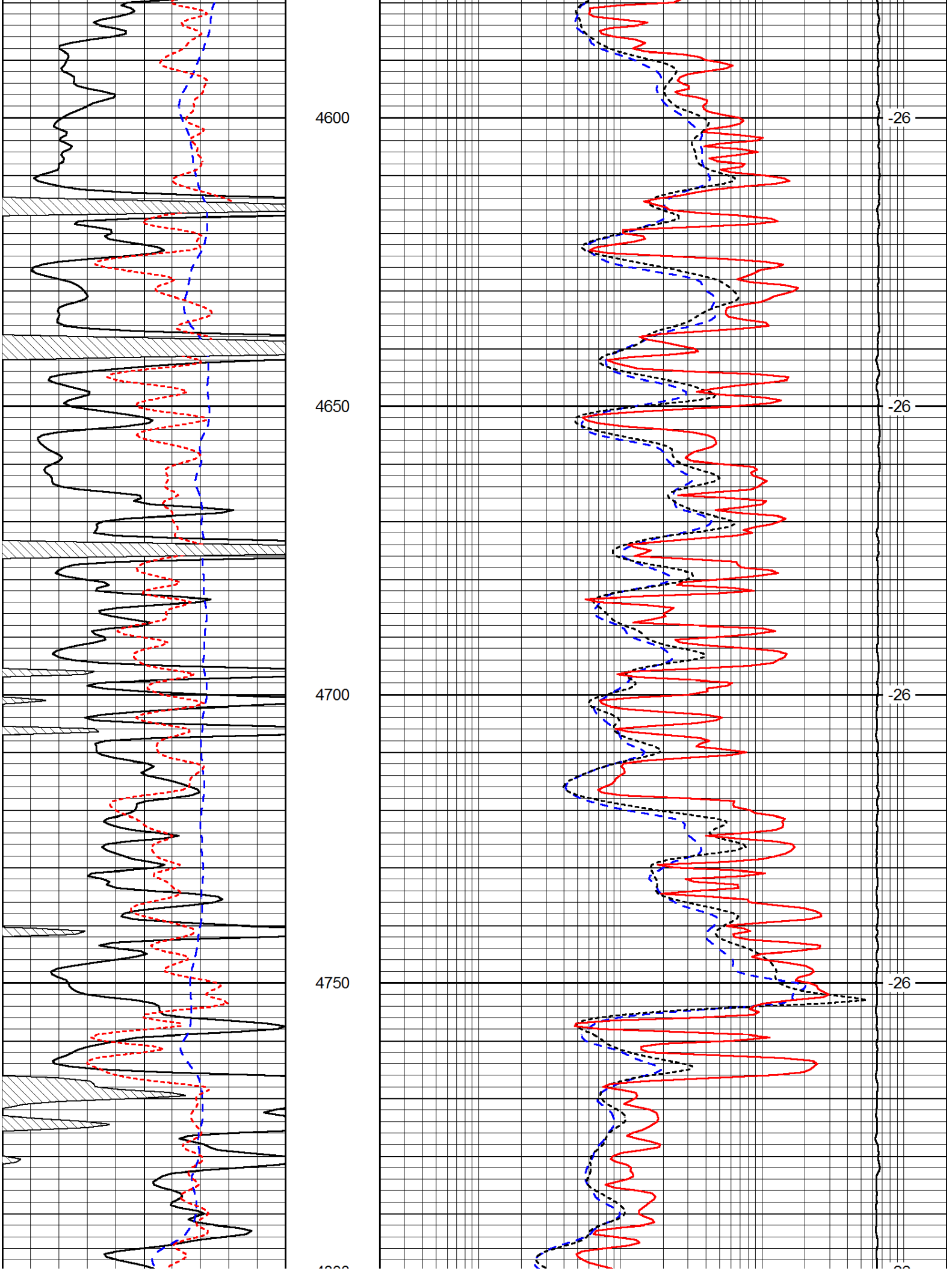


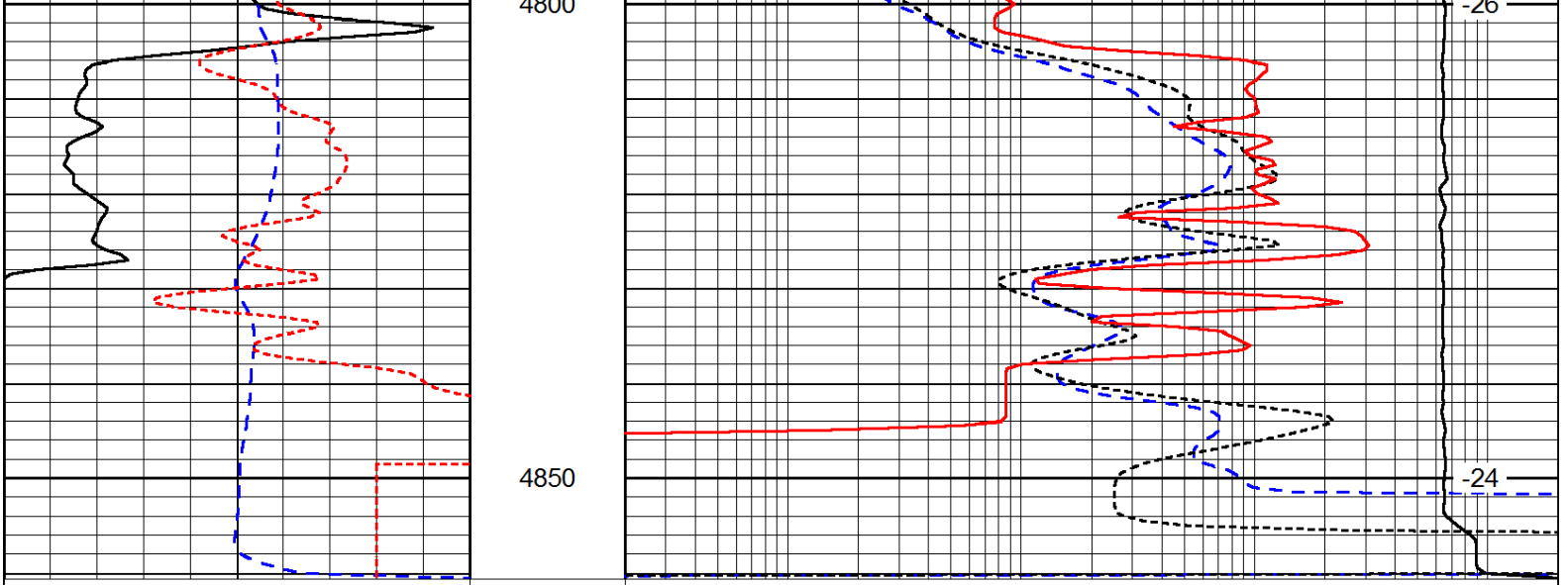

3700
3750
3800
3850
3900
-32
-32
-32
-32
-32


3950
4000
4050
4100
-32
-32
-32
-31


4150
4200
4250
4300
4350
-31
-31
-31
-31
-31


4400
4450
4500
4550
-31
-31
-26
-26


4600
4650
4700
4750
-26
-26
-26
-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