PIONEER

Pioneer Energy Services

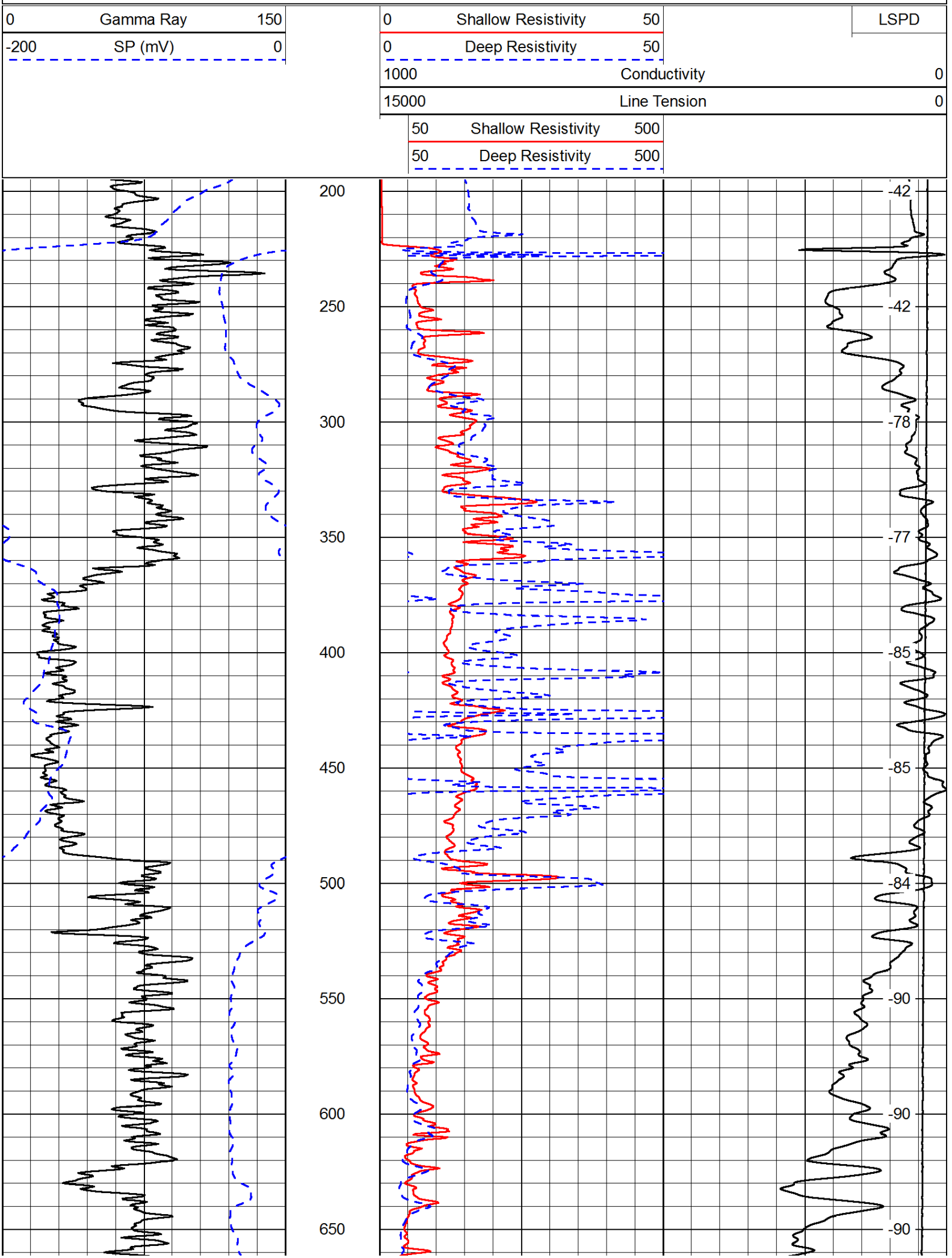
Dual Induction Log

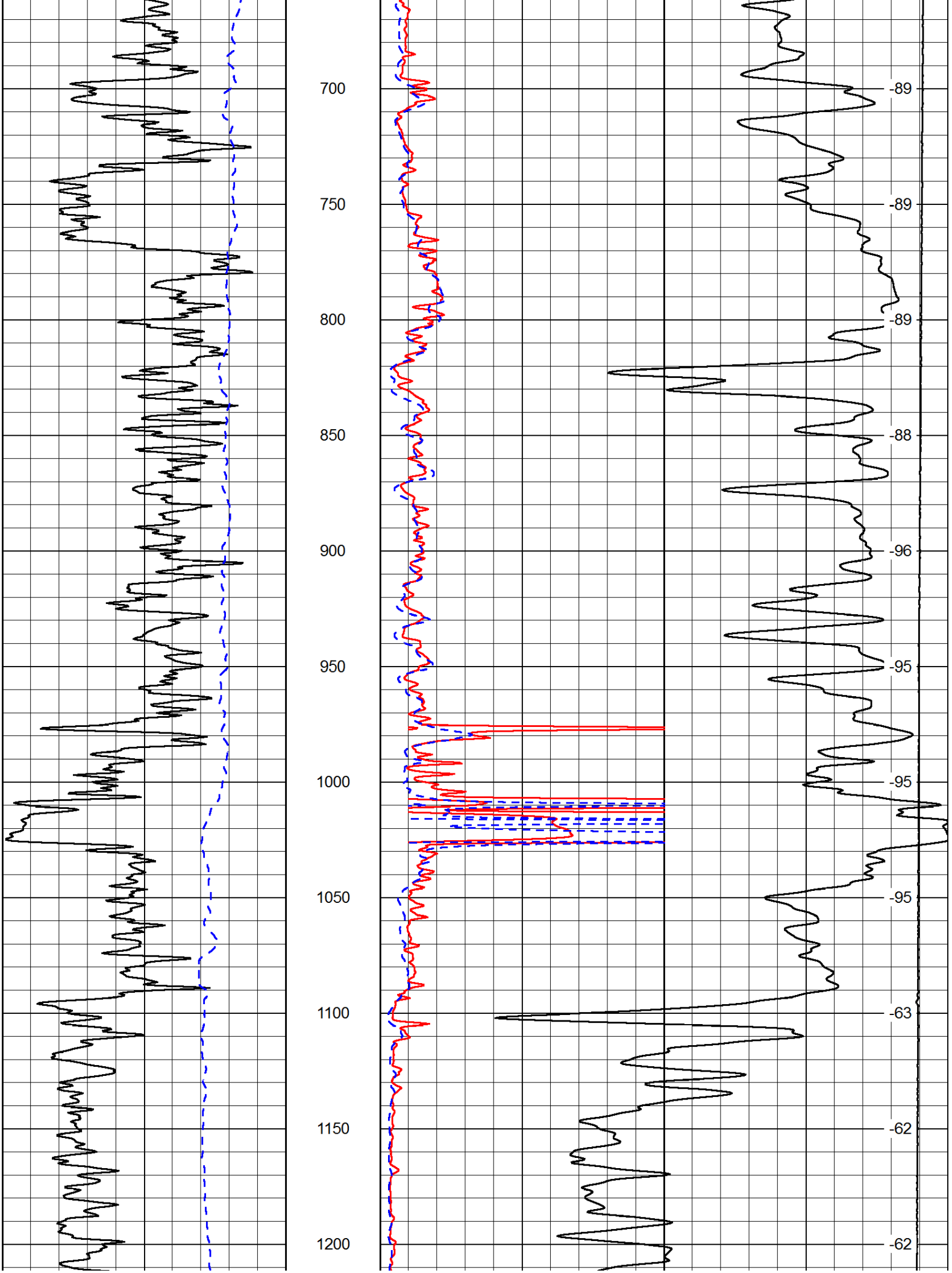
Company	American Warrior, Inc.
Well	Rothe #3-30
Field	Unknown
County	Ness State Kansas
API No.	15-135-25566-00-00
Location	1150' FNL & 2000' FWL
Sec: 30	Twp: 19 S Rge: 24 W
Permanent Datum	Ground Level Elevation 2334
Log Measured From	Kelly Bushing 11 Ft. Above Perm. Datum
Drilling Measured From	Kelly Bushing

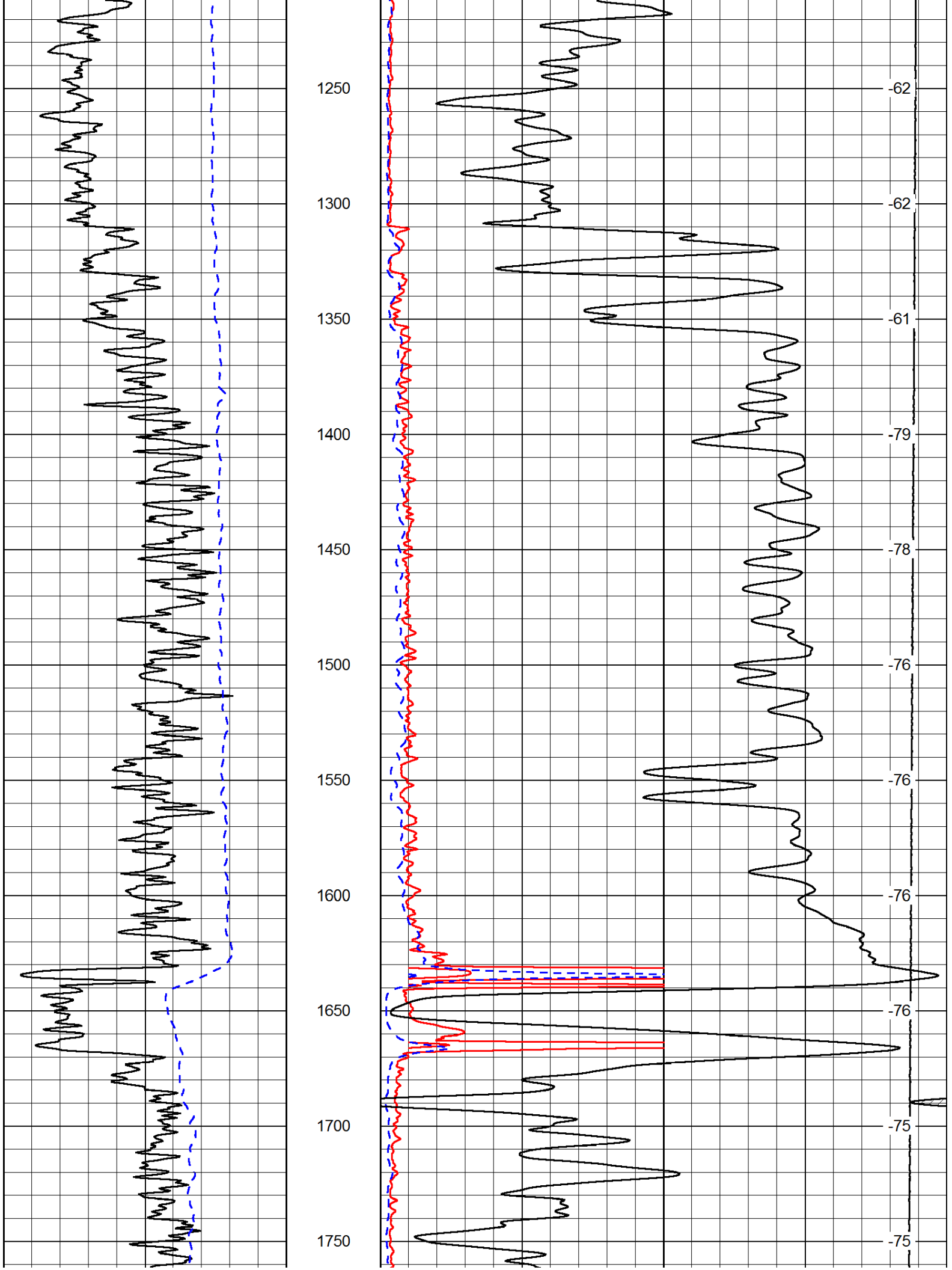
Other Services: CNL/CDL, MEL

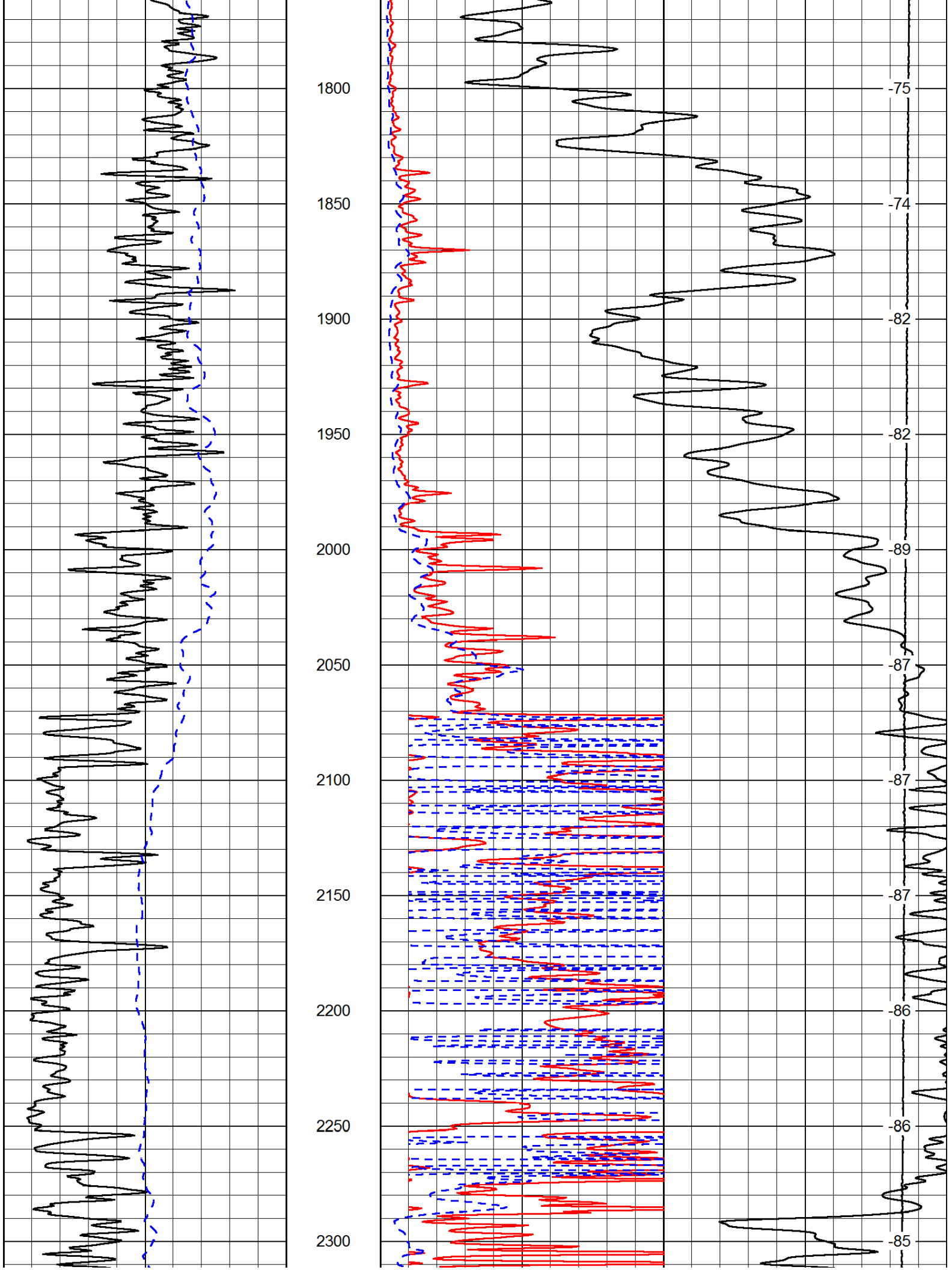
Elevation: K.B. 2345, D.F., G.L. 2334

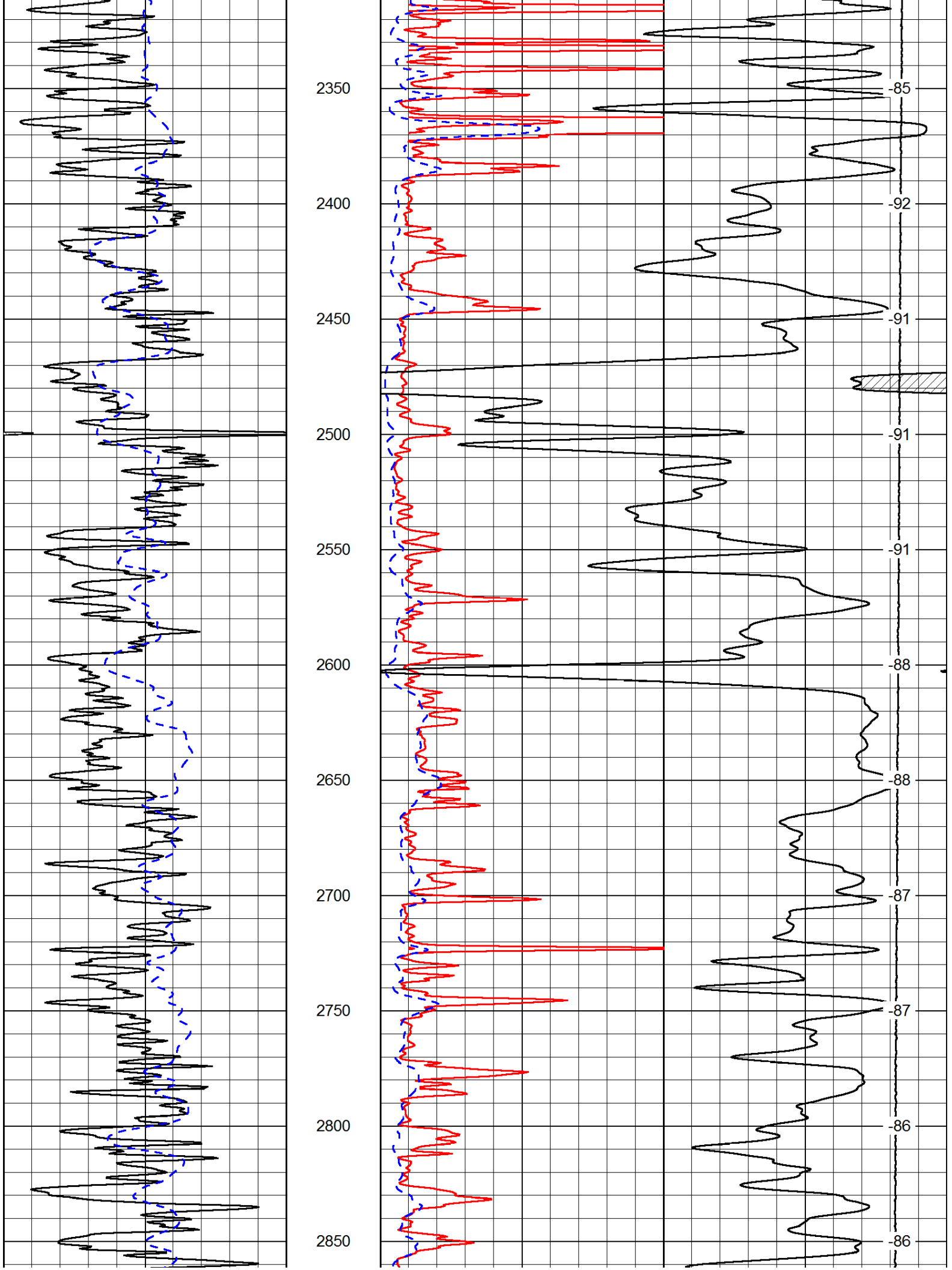
| | | |

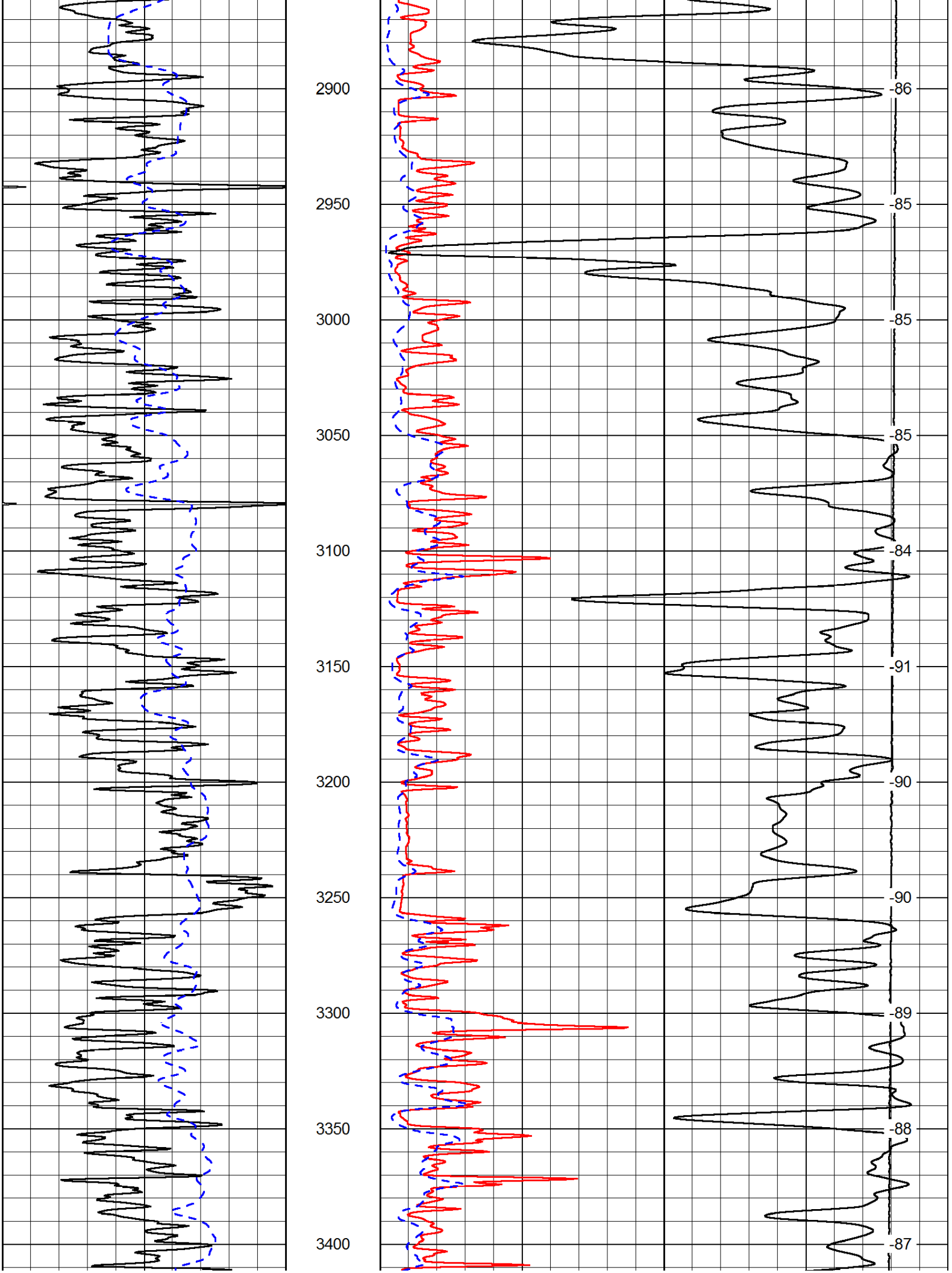

0 Gamma Ray 150
-200 SP (mV) 0
0 Shallow Resistivity 50
0 Deep Resistivity 50
1000 Conductivity 0
15000 Line Tension 0
50 Shallow Resistivity 500
50 Deep Resistivity 500
LSPD
200
250
300
350
400
450
500
550
600
650
-42
-42
-78
-77
-85
-85
-84
-90
-90
-90

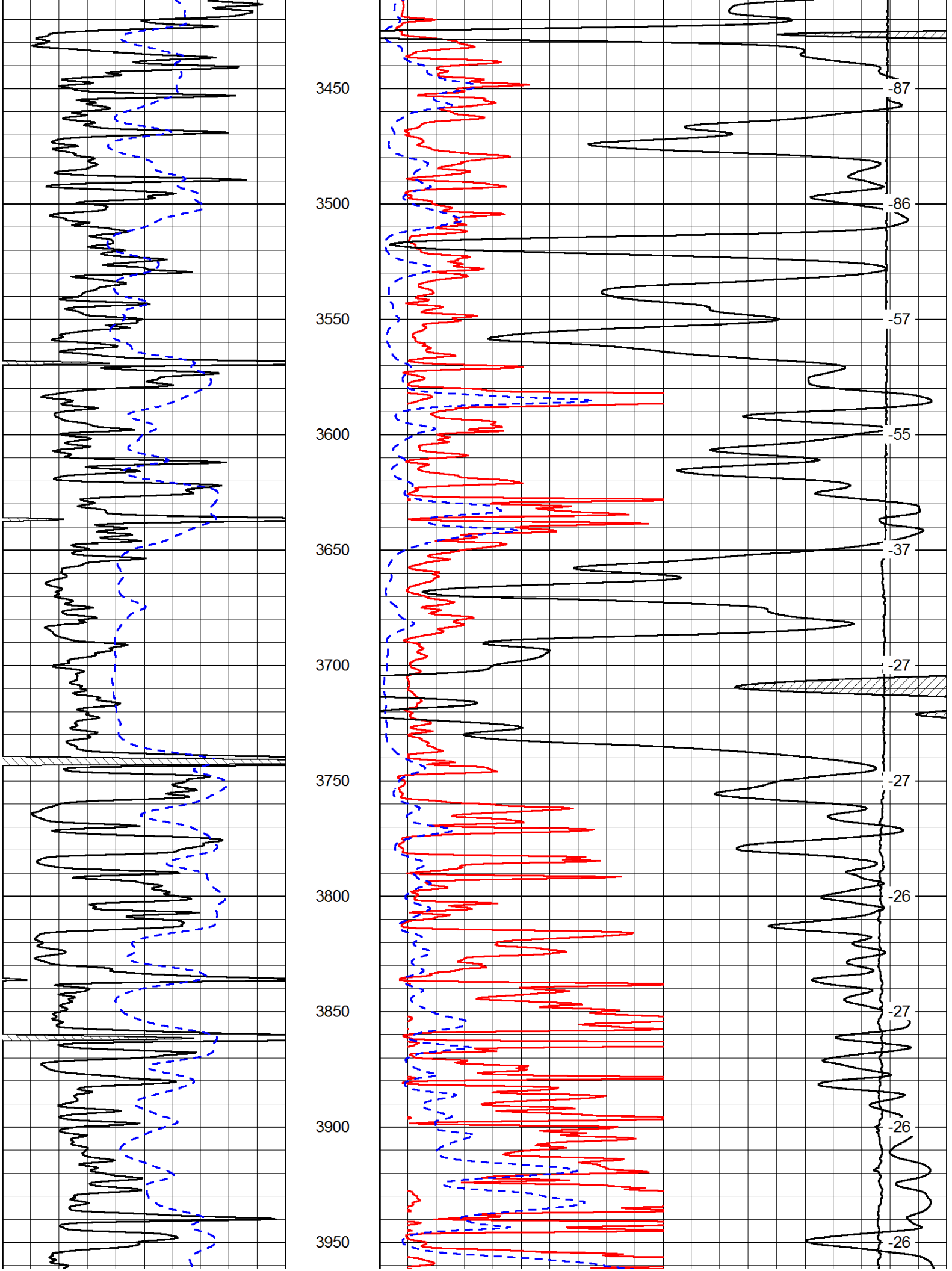

700
750
800
850
900
950
1000
1050
1100
1150
1200
-89
-89
-89
-88
-96
-95
-95
-95
-63
-62
-62

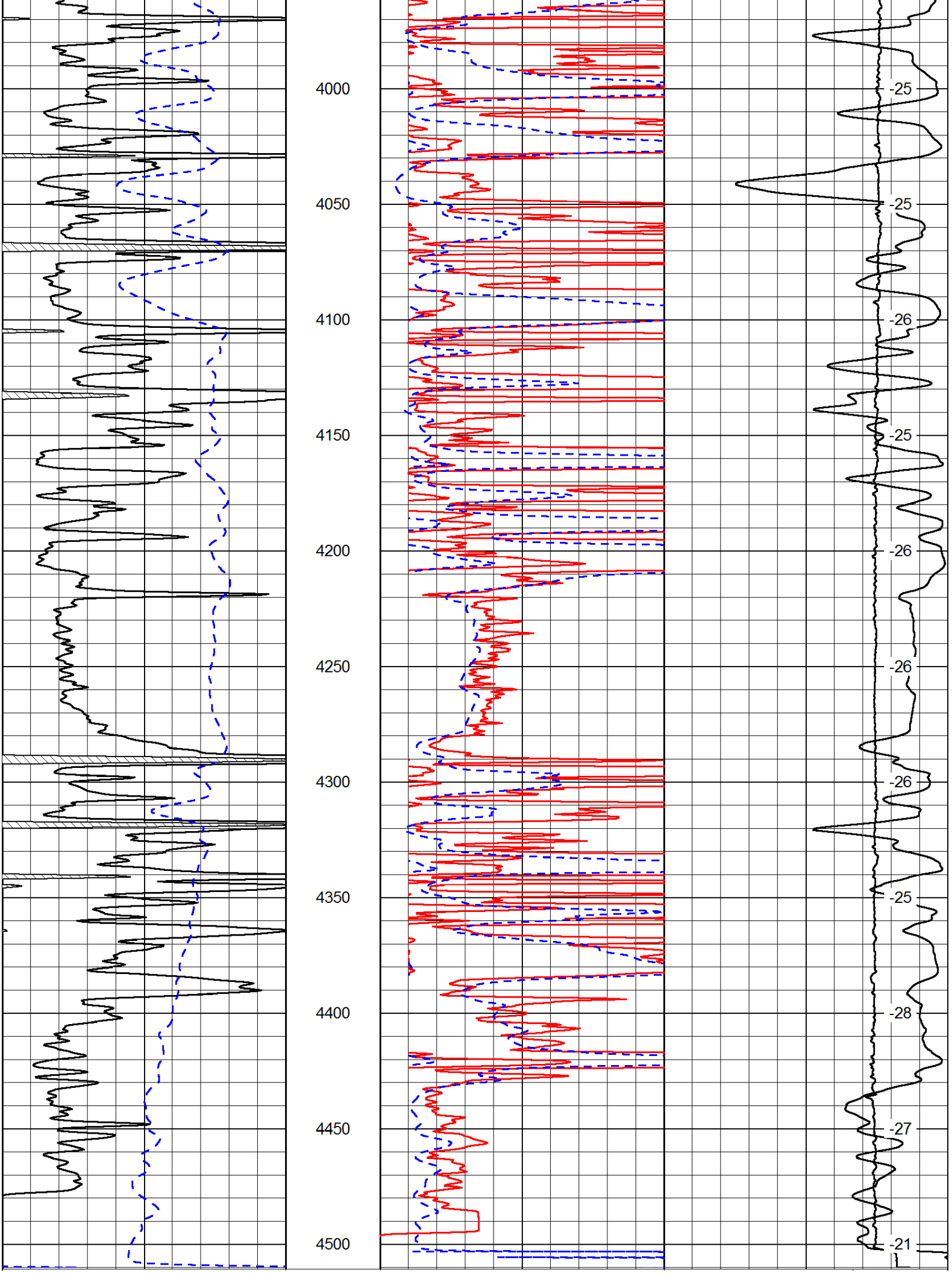

1250
1300
1350
1400
1450
1500
1550
1600
1650
1700
1750
-62
-62
-61
-79
-78
-76
-76
-76
-76
-75
-75


1800
1850
1900
1950
2000
2050
2100
2150
2200
2250
2300
-75
-74
-82
-82
-89
-87
-87
-87
-86
-86
-85


2350
2400
2450
2500
2550
2600
2650
2700
2750
2800
2850
-85
-92
-91
-91
-91
-88
-88
-87
-87
-86
-86


2900
2950
3000
3050
3100
3150
3200
3250
3300
3350
3400
-86
-85
-85
-85
-84
-91
-90
-90
-89
-88
-87


3450
3500
3550
3600
3650
3700
3750
3800
3850
3900
3950
-87
-86
-57
-55
-37
-27
-27
-26
-27
-26
-26


4000
4050
4100
4150
4200
4250
4300
4350
4400
4450
4500
-25
-25
-26
-25
-26
-26
-25
-28
-27
-21

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

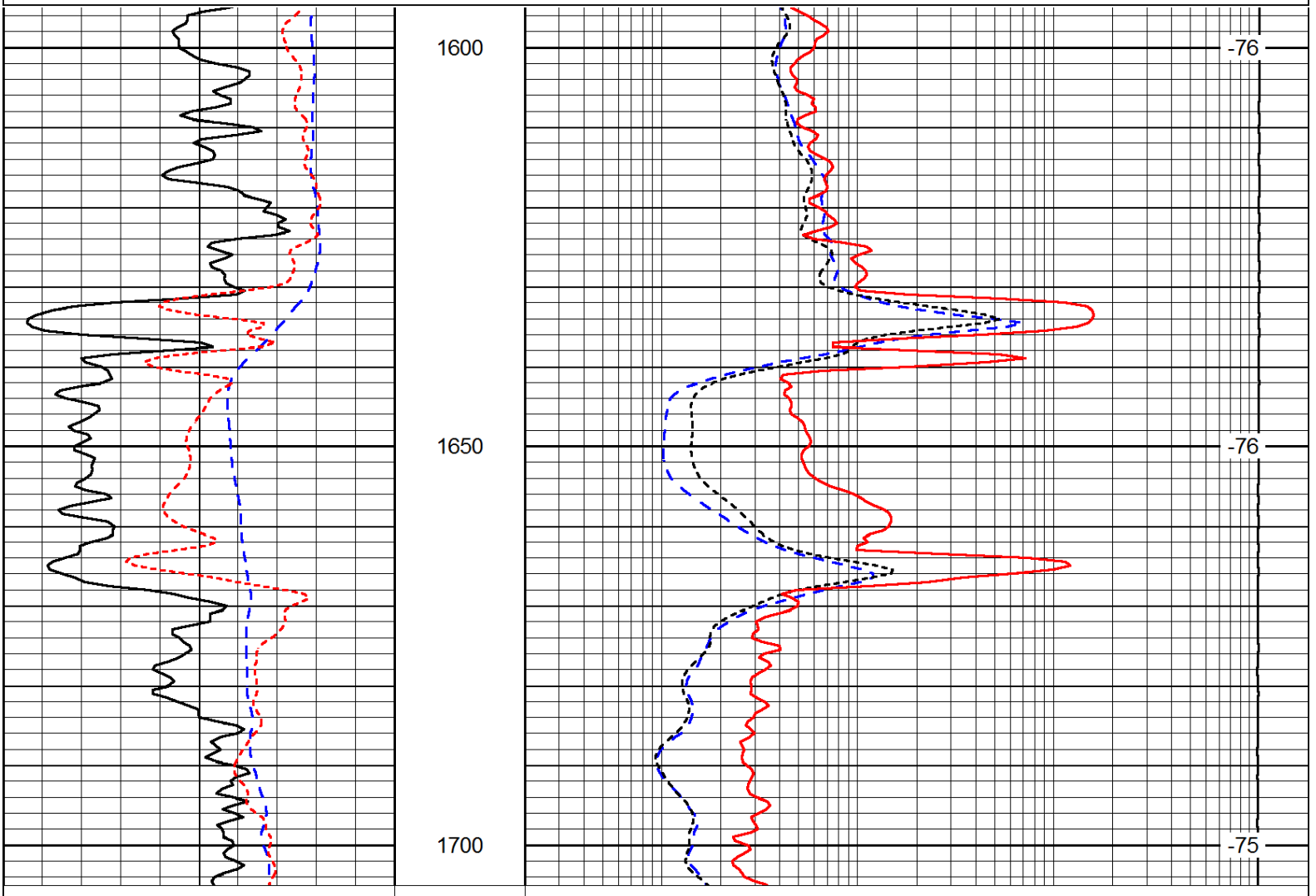
LSPD

Database File: c:\warrior\data\amwar_rothe #3-30\american warrior_050113hd.db
Dataset Pathname: DIL/awstk
Presentation Format: dil
Dataset Creation: Wed May 01 03:48:40 2013
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

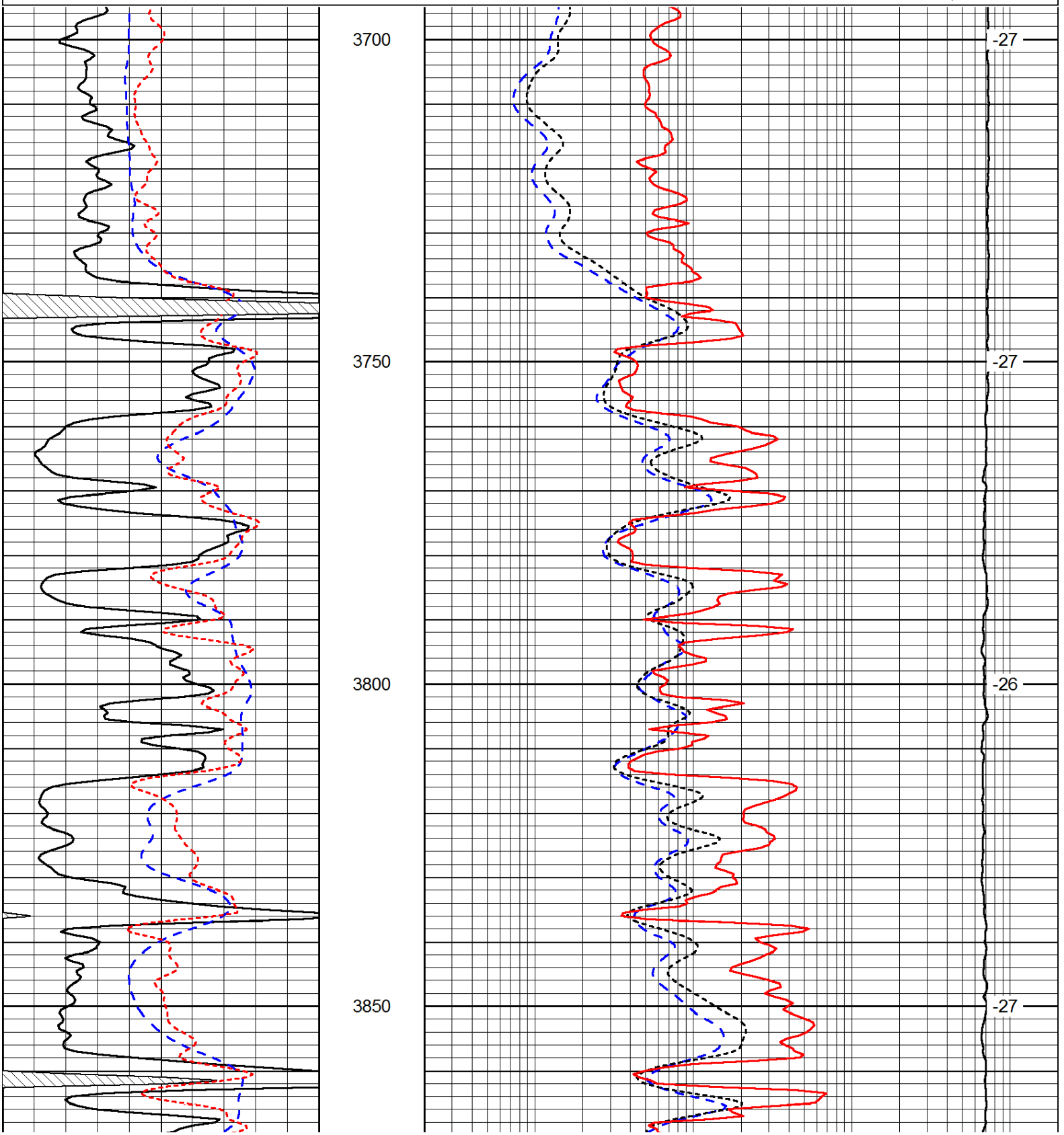
LSPD

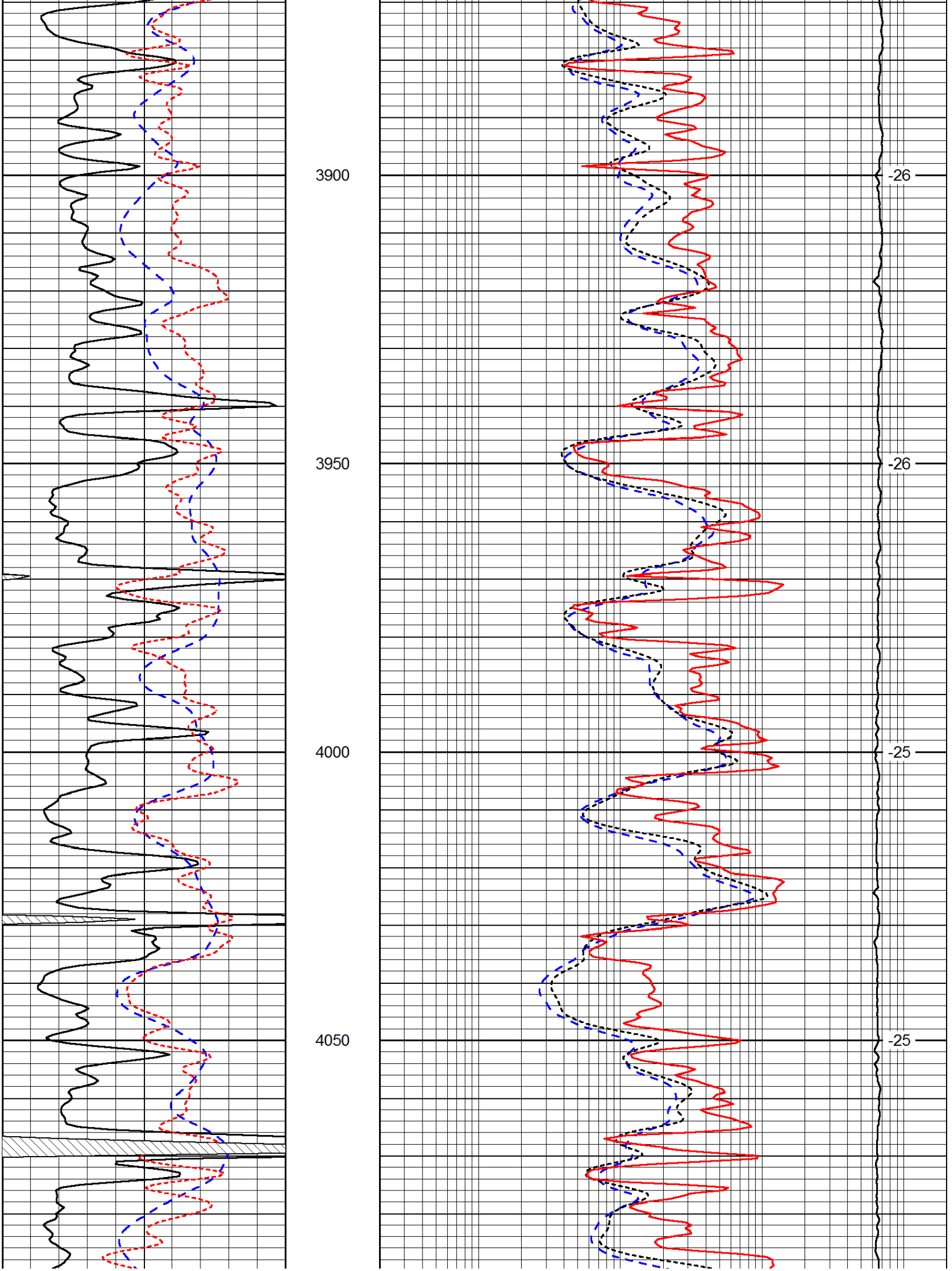
Database File:	c:\warrior\data\amwar_rothe #3-30\american warrior_050113hd.db
Dataset Pathname:	DIL/awstk
Presentation Format:	dil
Dataset Creation:	Wed May 01 03:48:40 2013
Charted by:	Depth in Feet scaled 1:240

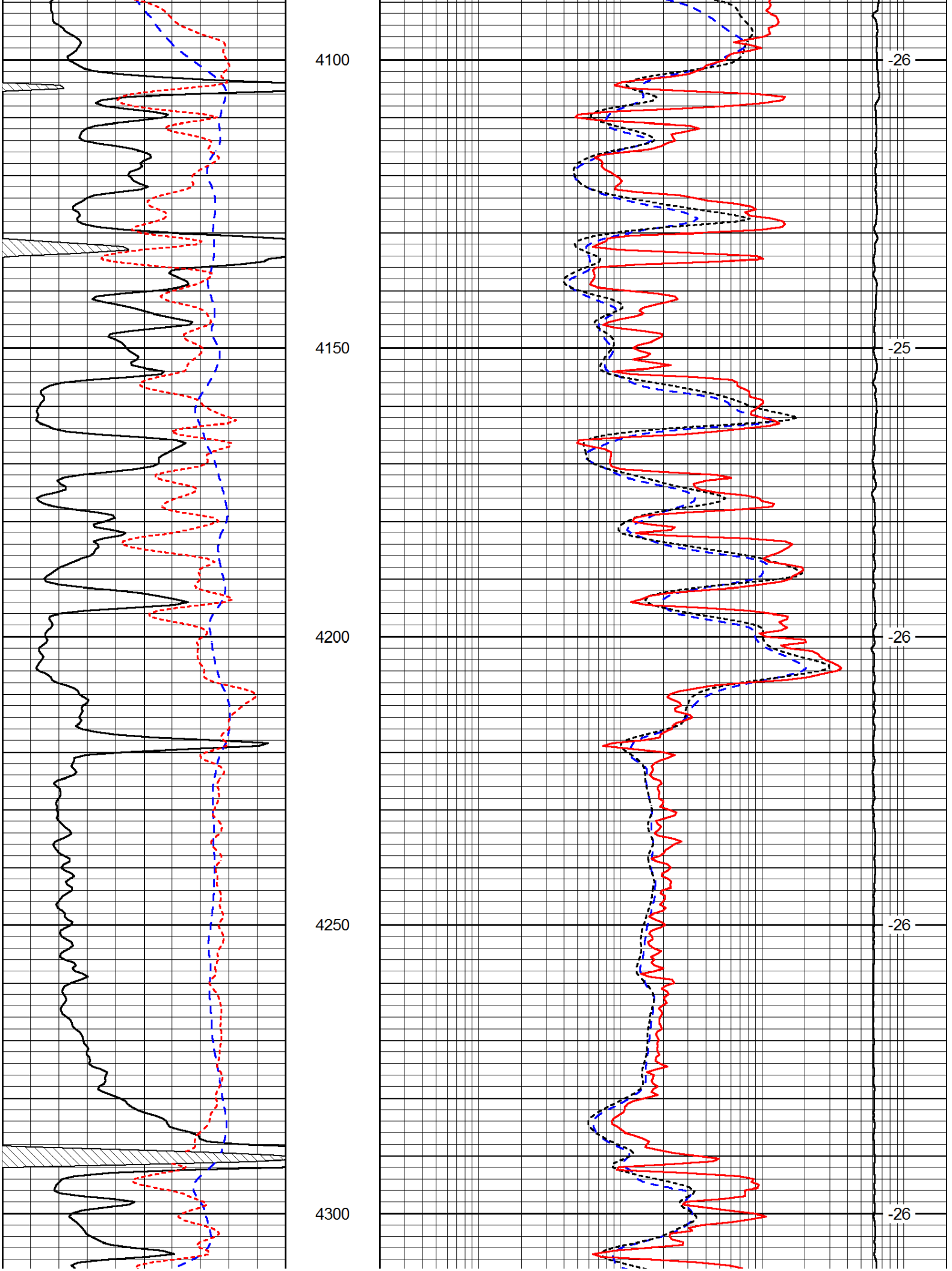
0	Gamma Ray	150
-200	SP (mV)	0
-160	RxoRt	40

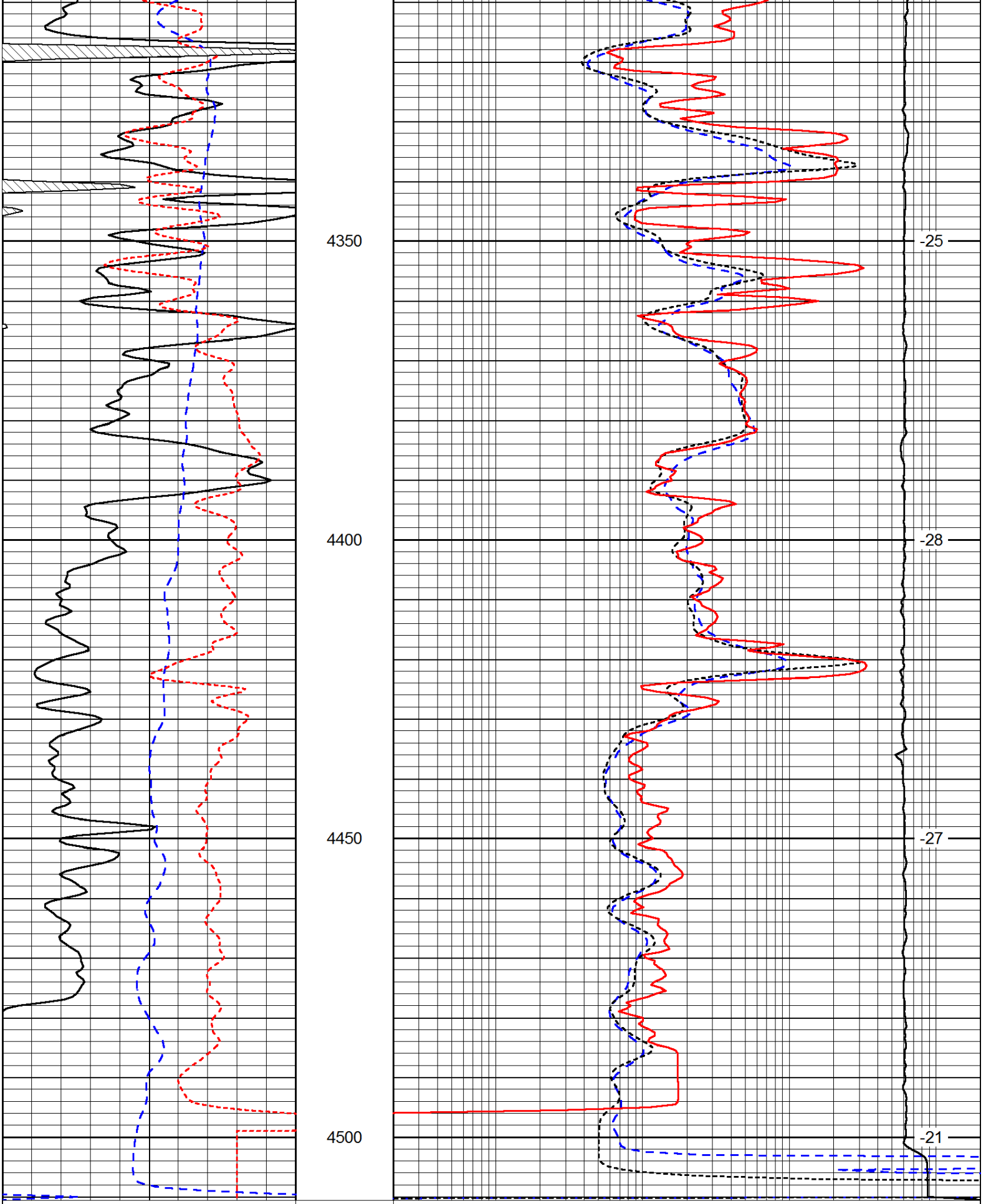
0.2	Deep Resistivity	2000
0.2	Medium Resistivity	2000
0.2	Shallow Resistivity	2000
15000	Line Tension	0

LSPD




3900
3950
4000
4050
-26
-26
-25
-25


4100
4150
4200
4250
4300
-26
-25
-26
-26
-26


4350
4400
4450
4500
-25
-28
-27
-21
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