



Pioneer Energy Services

Dual Induction Log

API No.

15-159-22,804-00-00

Company **American Warrior, Inc.**

Well Dorothy No. 1-3

County Rice State Kansas

Location	W-SE-SE-SE	335' FSL & 335' FEL
1	1	1
2	2	2
3	3	3
4	4	4
5	5	5
6	6	6
7	7	7
8	8	8
9	9	9
10	10	10
11	11	11
12	12	12
13	13	13
14	14	14
15	15	15
16	16	16
17	17	17
18	18	18
19	19	19
20	20	20
21	21	21
22	22	22
23	23	23
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26	26	26
27	27	27
28	28	28
29	29	29
30	30	30
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32	32	32
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34	34	34
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38	38	38
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42	42	42
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49	49	49
50	50	50
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54	54	54
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57	57	57
58	58	58
59	59	59
60	60	60
61	61	61
62	62	62
63	63	63
64	64	64
65	65	65
66	66	66
67	67	67
68	68	68
69	69	69
70	70	70
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73	73	73
74	74	74
75	75	75
76	76	76
77	77	77
78	78	78
79	79	79
80	80	80
81	81	81
82	82	82
83	83	83
84	84	84
85	85	85
86	86	86
87	87	87
88	88	88
89	89	89
90	90	90
91	91	91
92	92	92
93	93	93
94	94	94
95	95	95
96	96	96
97	97	97
98	98	98
99	99	99
100	100	100

Sec: 3 Twp: 18S Rge: 8W

Sec: 3	Twp: 18S	Rge: 8W
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Elevation

Permanent Datum	Ground Level	Elevation 1780
Log Measured From	Kelly Bushing	8 Ft. Above Perm. Datum

Drilling Measured From Kelly Bushing

Date	11/4/14	
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Run Number	One	
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Depth Driller	3400	
	2000	

Depth	3382	
Bottom	2204	

Top α Interval	400	
Bolton Logged Interval	338	

Casino Driller	8625 @ 444	
Top Log Interval	400	

Casino Floor	436	
Casino Dining	3020	

Bit Size	7.875
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Type Fluid in Hole	Chemical
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Salinity, ppm CL	4,100	
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Density / Viscosity	9.3	48
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pH / Fluid Loss	11.0	7.2
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Source of Sample	Flowline
Bm 20 Moss Town	47 20 E3

Kill @ Meas. Temp	.47 @ 32
Bmf @ Mass Temp	35 @ 52

kill @ meas Temp	0.00	0.02
kill @ meas Temp	0.03	0.02

Source of Rmf / Rmc	Charts
100	100

Rm @ BHT	.22 @ 110	
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Operating Rig Time	4 Hours	
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Max Rec. Temp. F	110	
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Equipment Number	108	
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Location	Days
Deerfield Park	11/11/11-11/12/11

Recorded By	J. Henrickson
Witnessed By	W. J. Henrickson

Witnessed By	Wyatt Urban	
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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

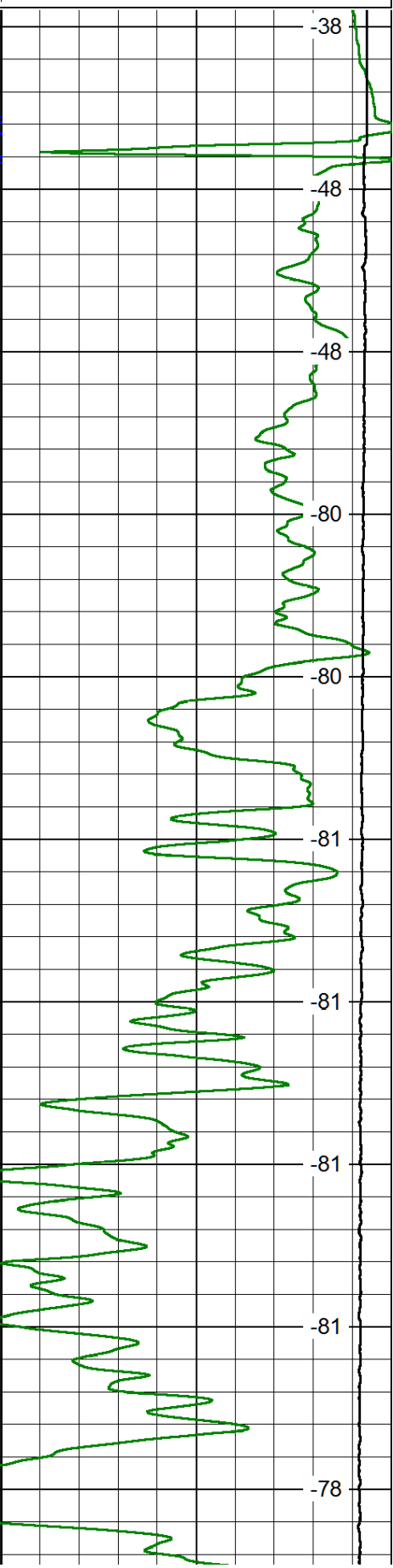
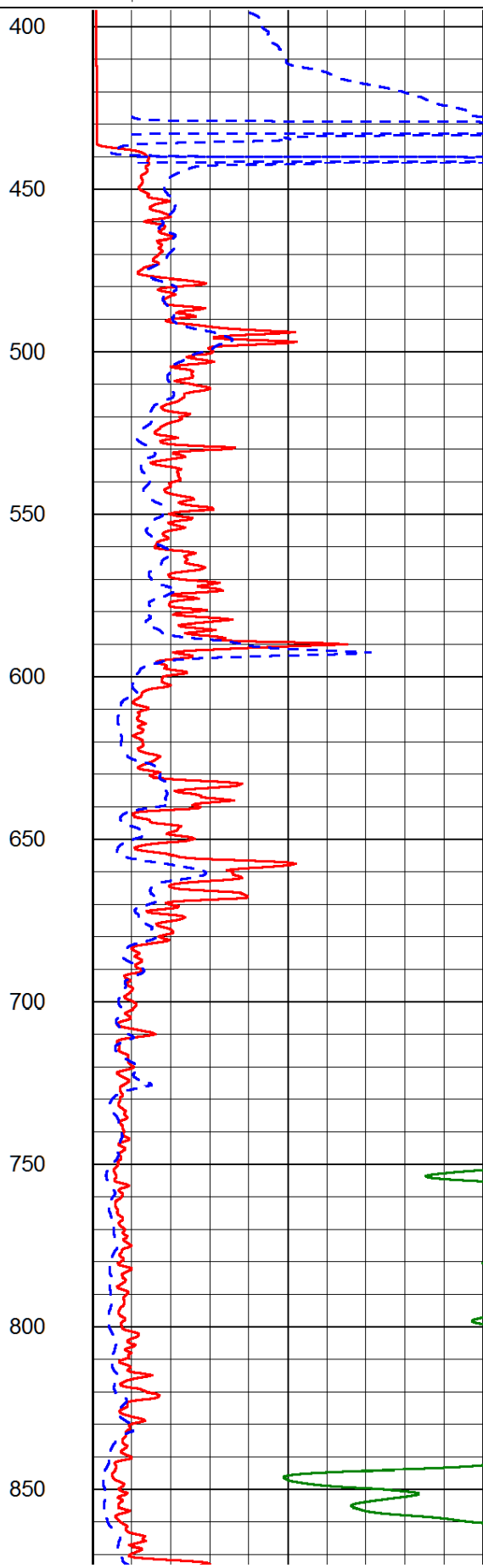
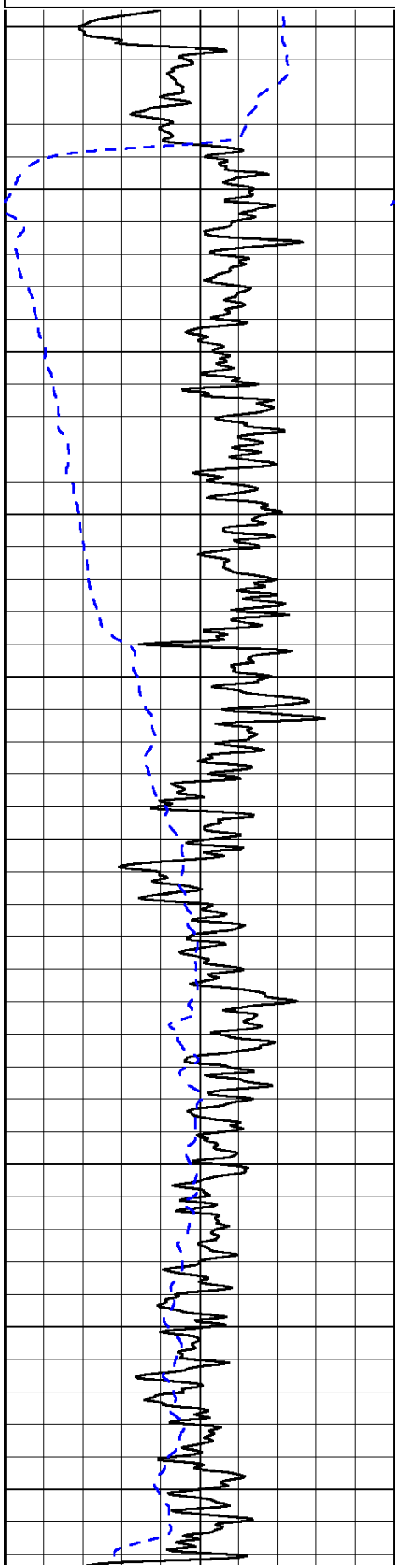
HWY 4 & HWY 14
1 East, 1 South, 1/2 West, North Into

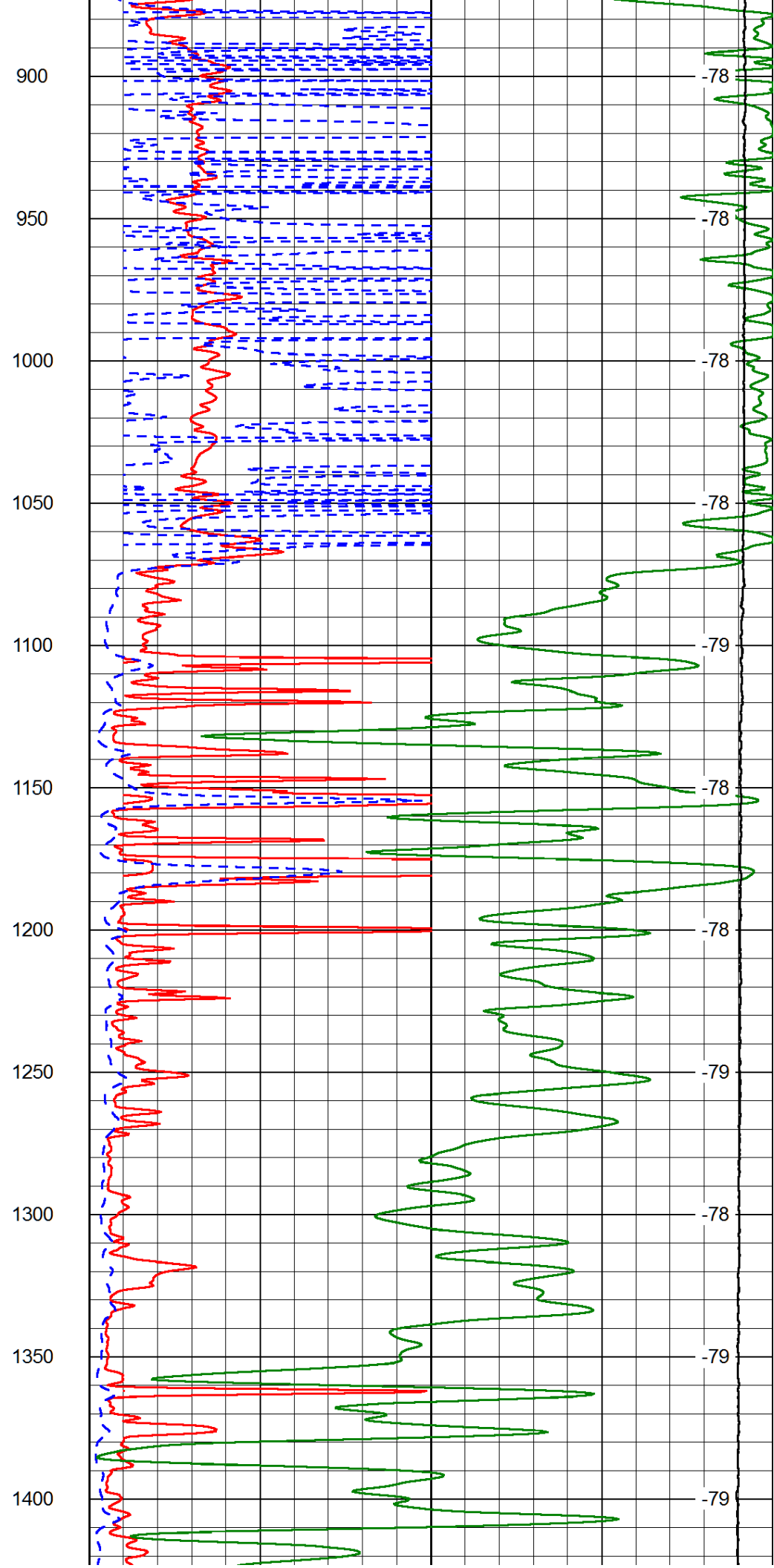
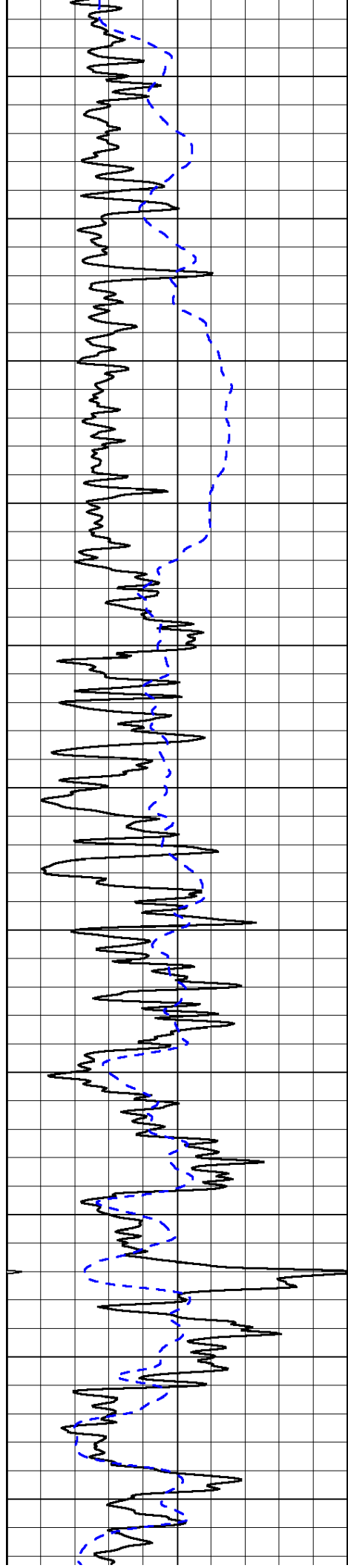
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Presentation Format: dil2in
Dataset Creation: Tue Nov 04 21:18:35 2014
Charted by: Depth in Feet scaled 1:600

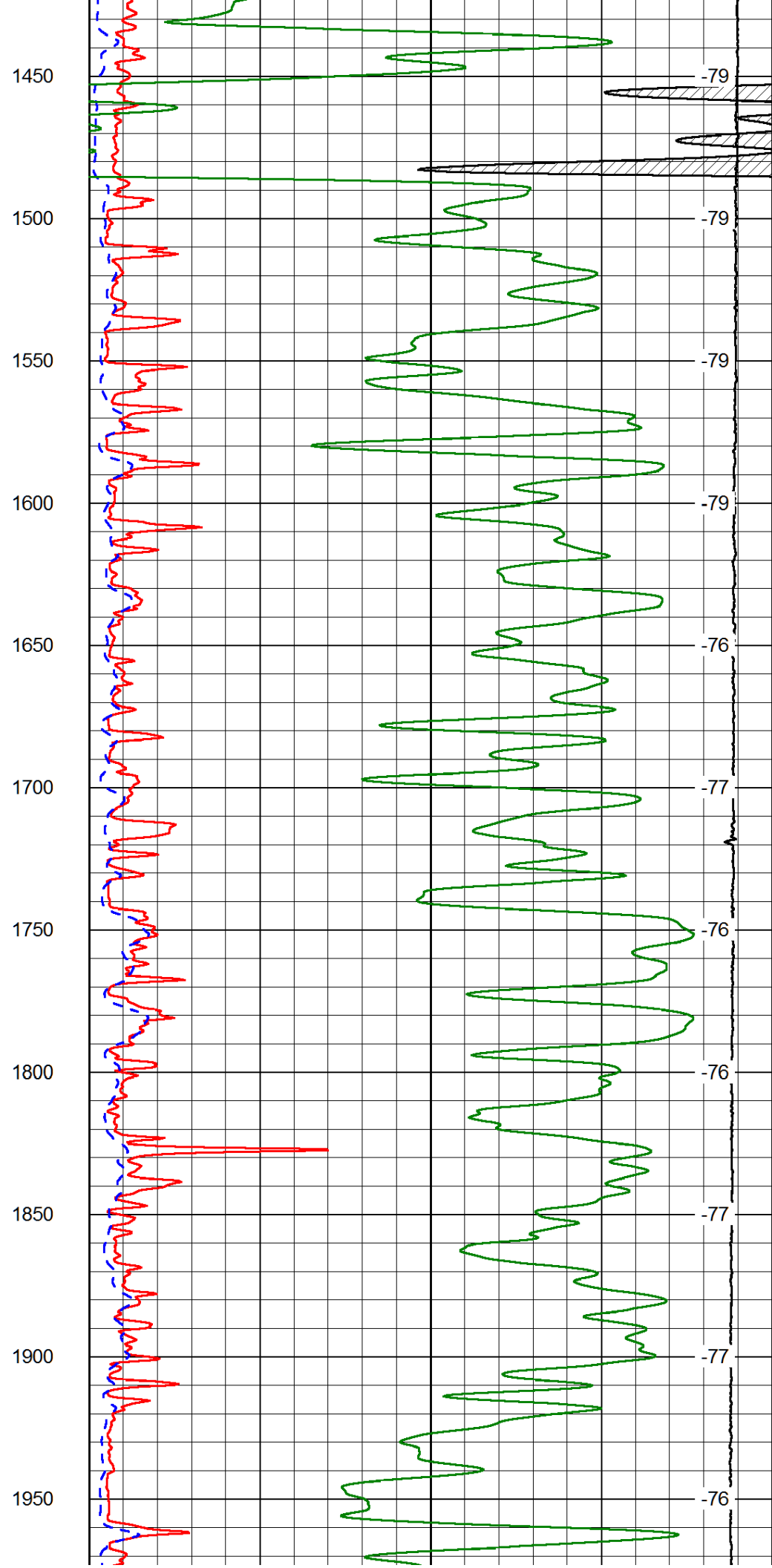
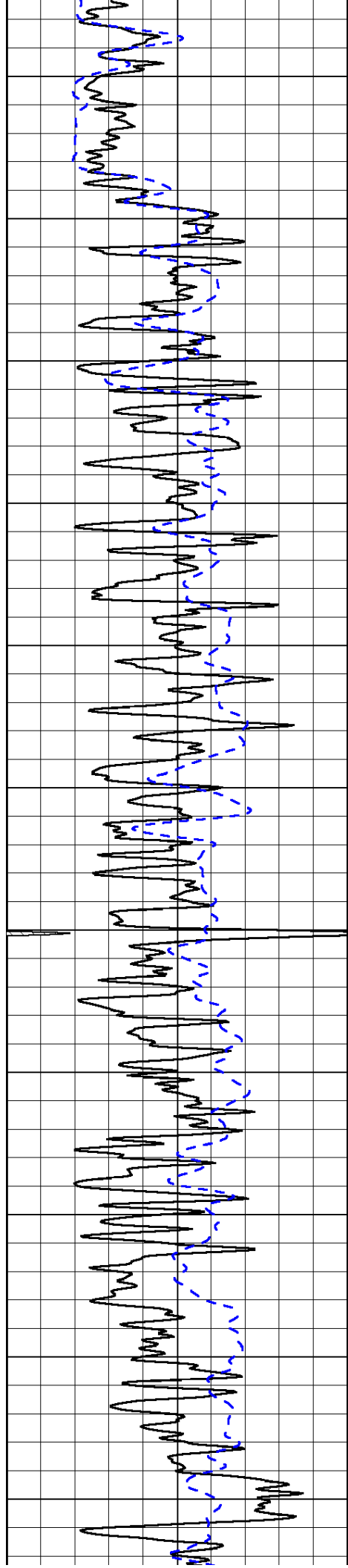
0	Gamma Ray	150
-200	SP (mV)	0

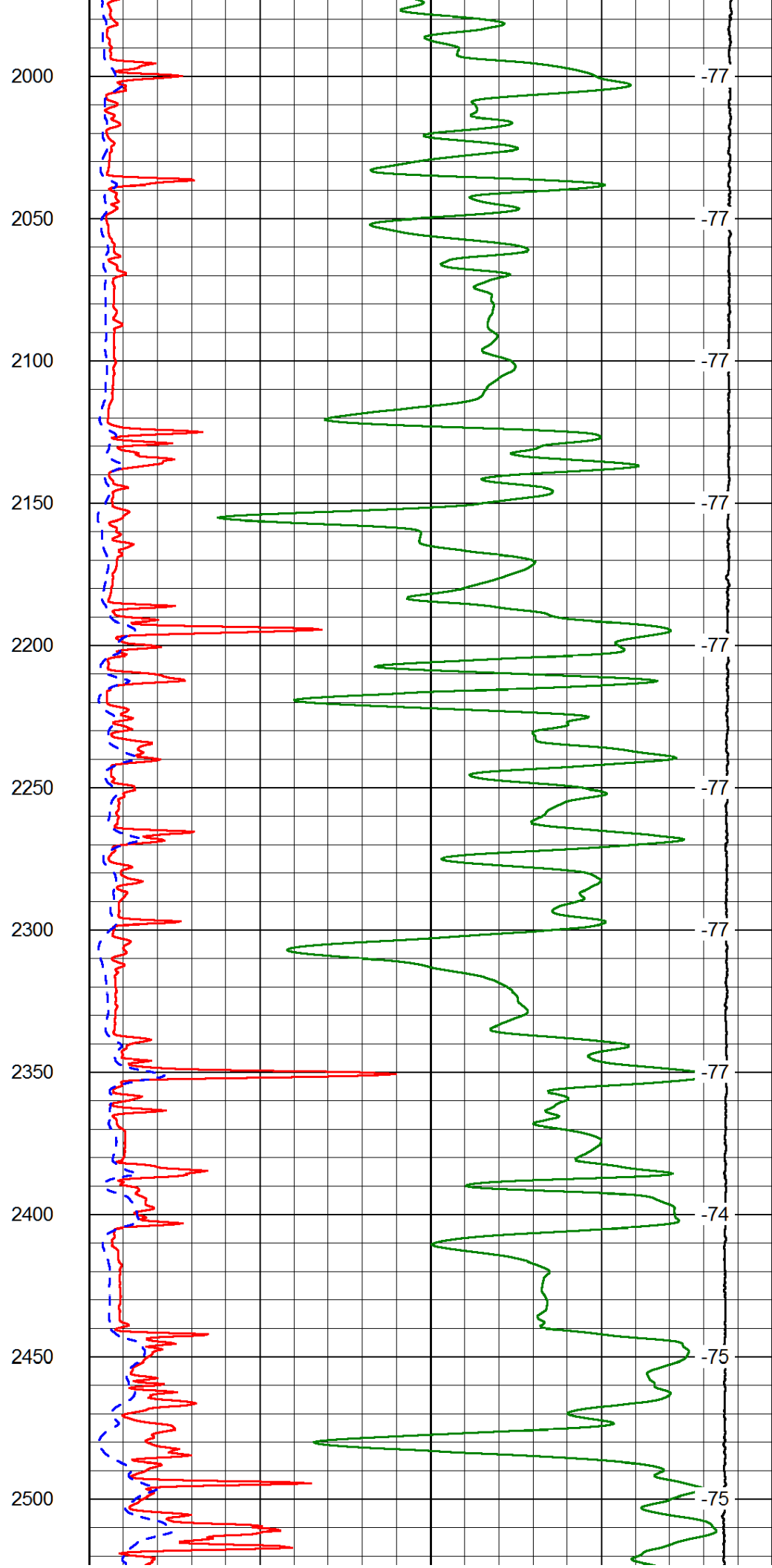
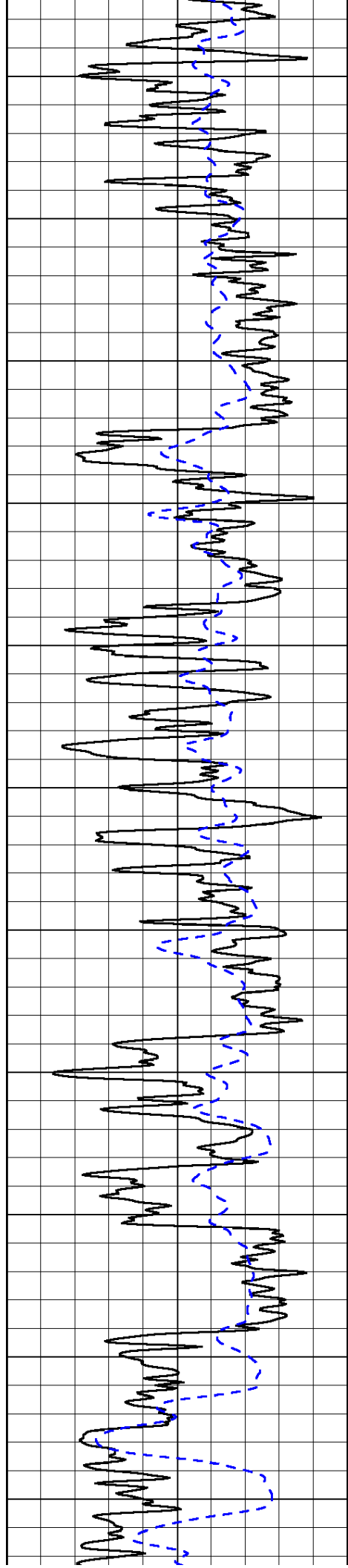
0	Shallow Resistivity	50
0	Deep Resistivity	50
1000	Conductivity	0
15000	Line Tension	0
50	Shallow Resistivity	500
50	Deep Resistivity	500

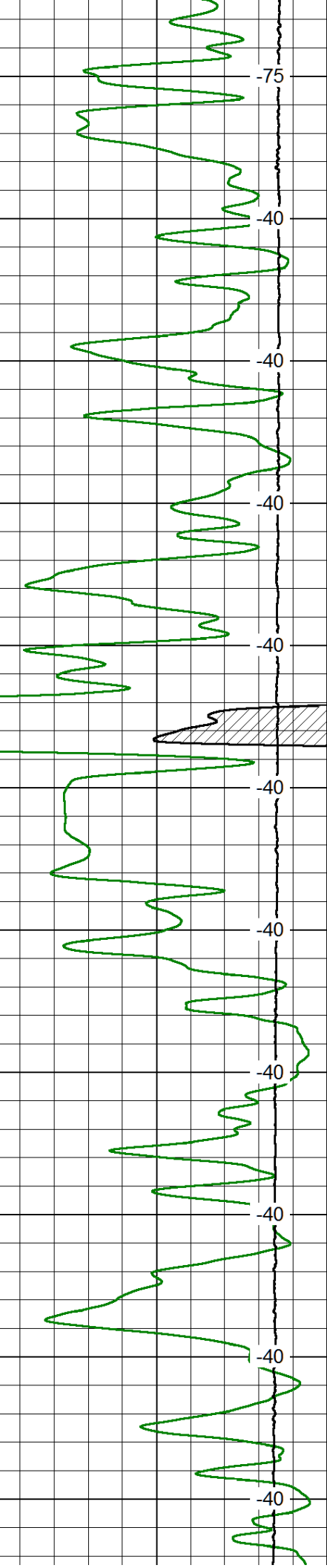
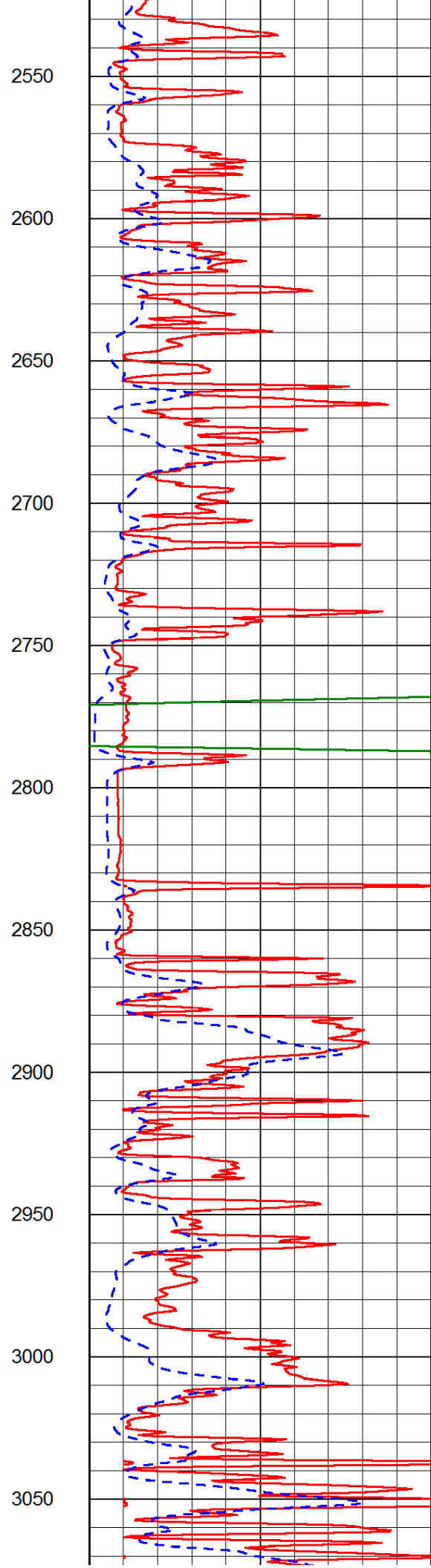
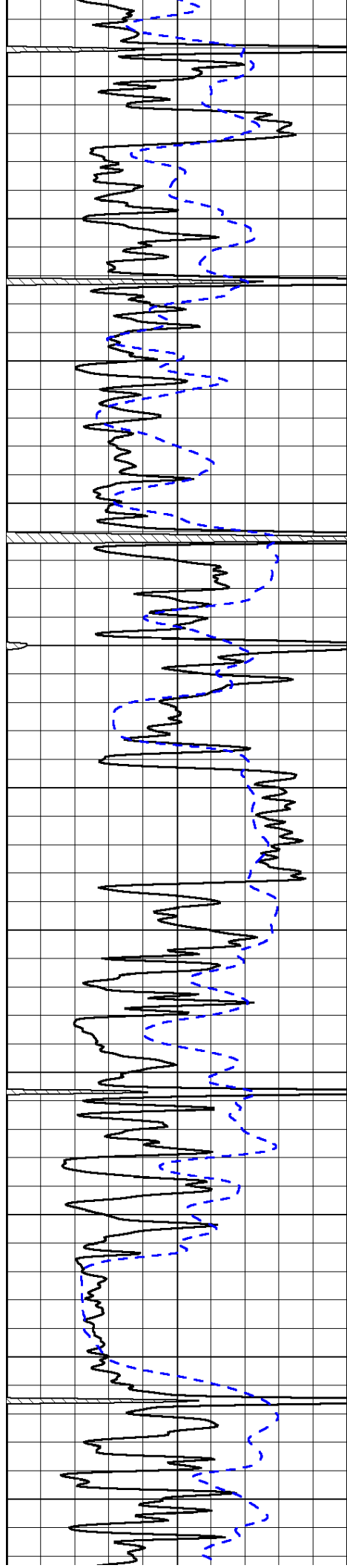
LSPD

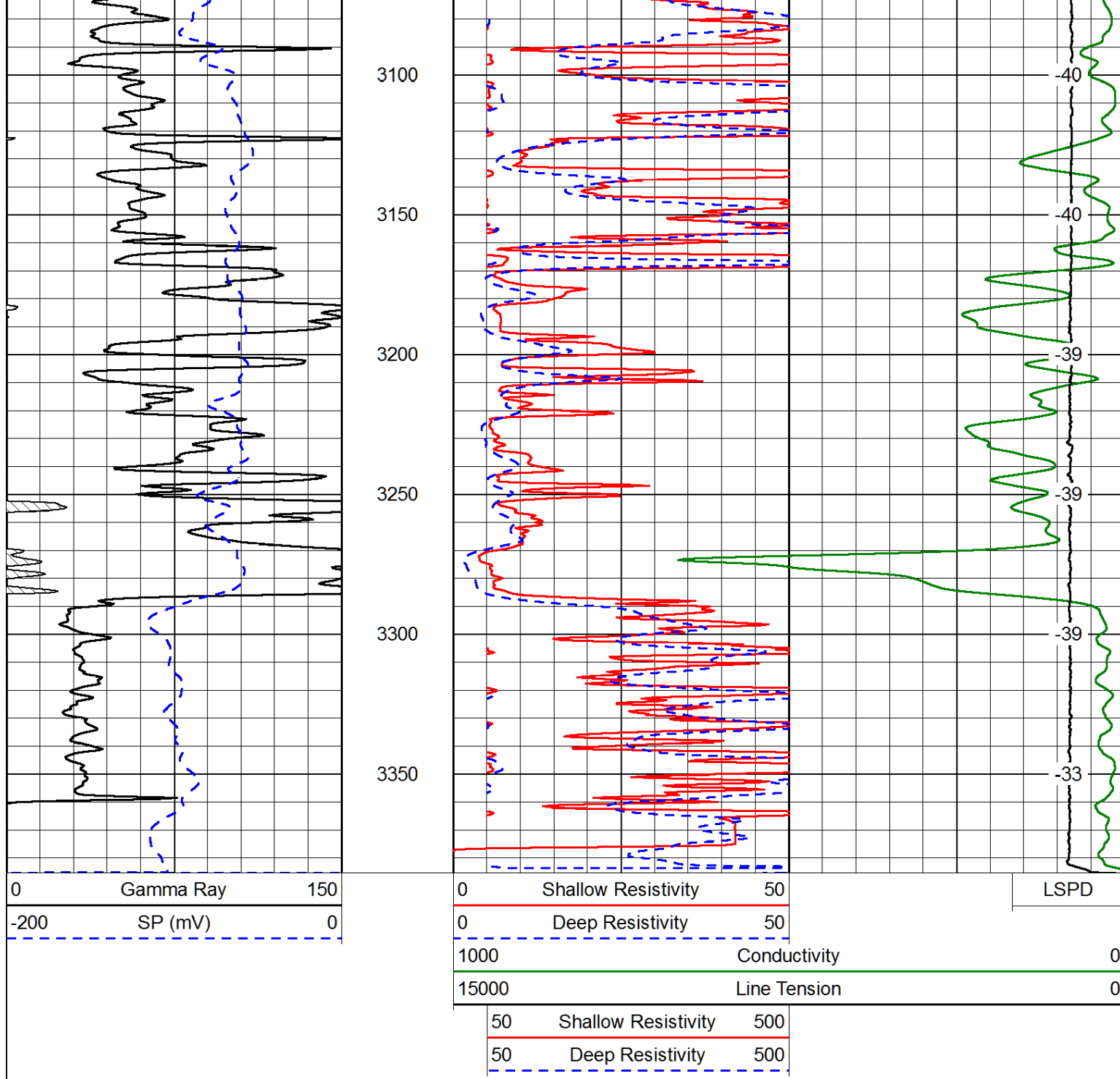






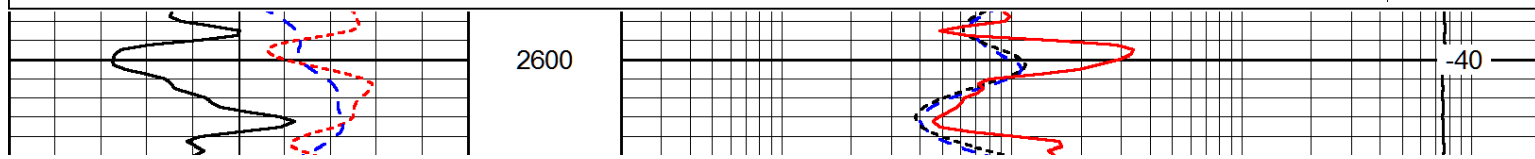


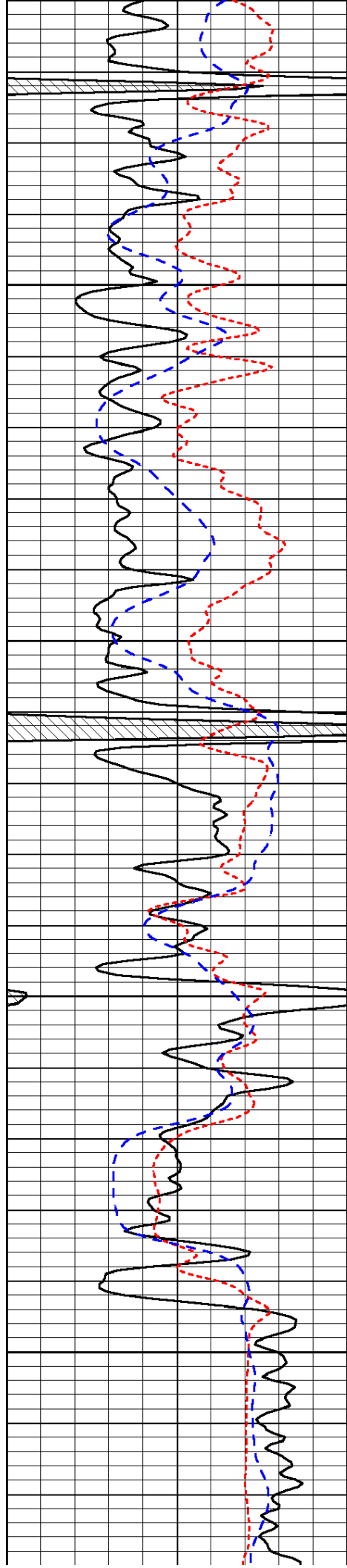




Database File: american_warrior_dorothy_1_3hd.db
 Dataset Pathname: DIL/awstk
 Presentation Format: dil
 Dataset Creation: Tue Nov 04 21:18:35 2014
 Charted by: Depth in Feet scaled 1:240

0	Gamma Ray	150	0.2	Deep Resistivity	2000
-160	RxoRt	40	0.2	Medium Resistivity	2000
-200	SP (mV)	0	0.2	Shallow Resistivity	2000
			10000	Line Tension	0
			LSPD		



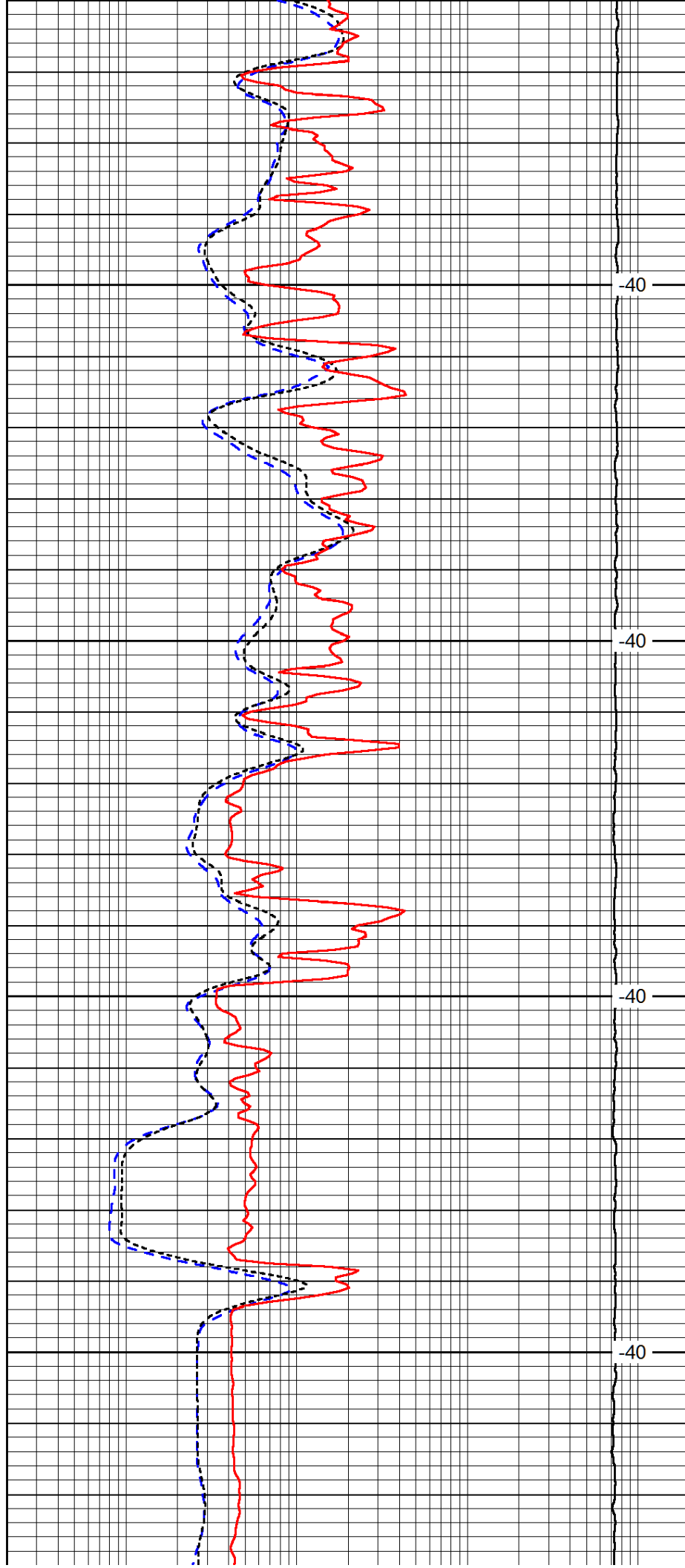


2650

2700

2750

2800

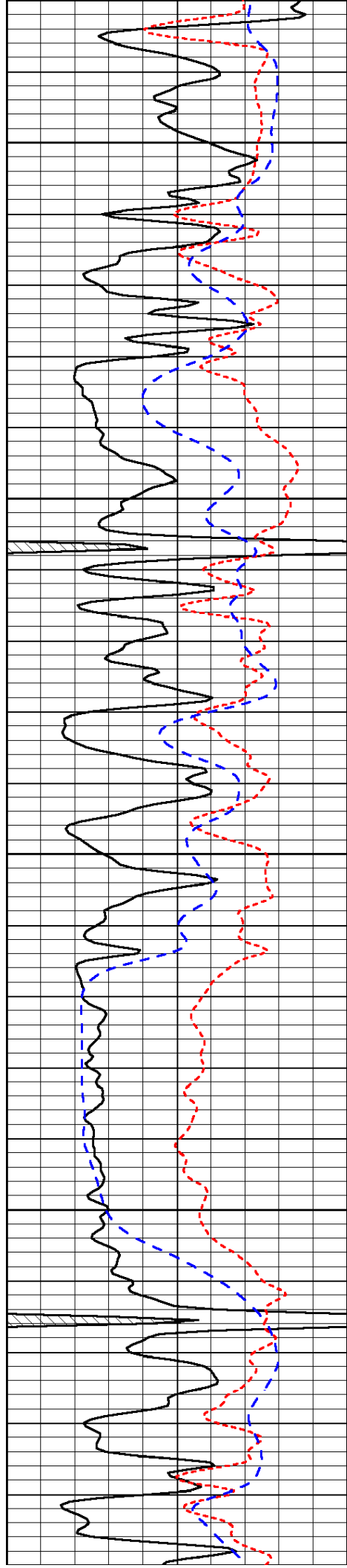


-40

-40

-40

-40



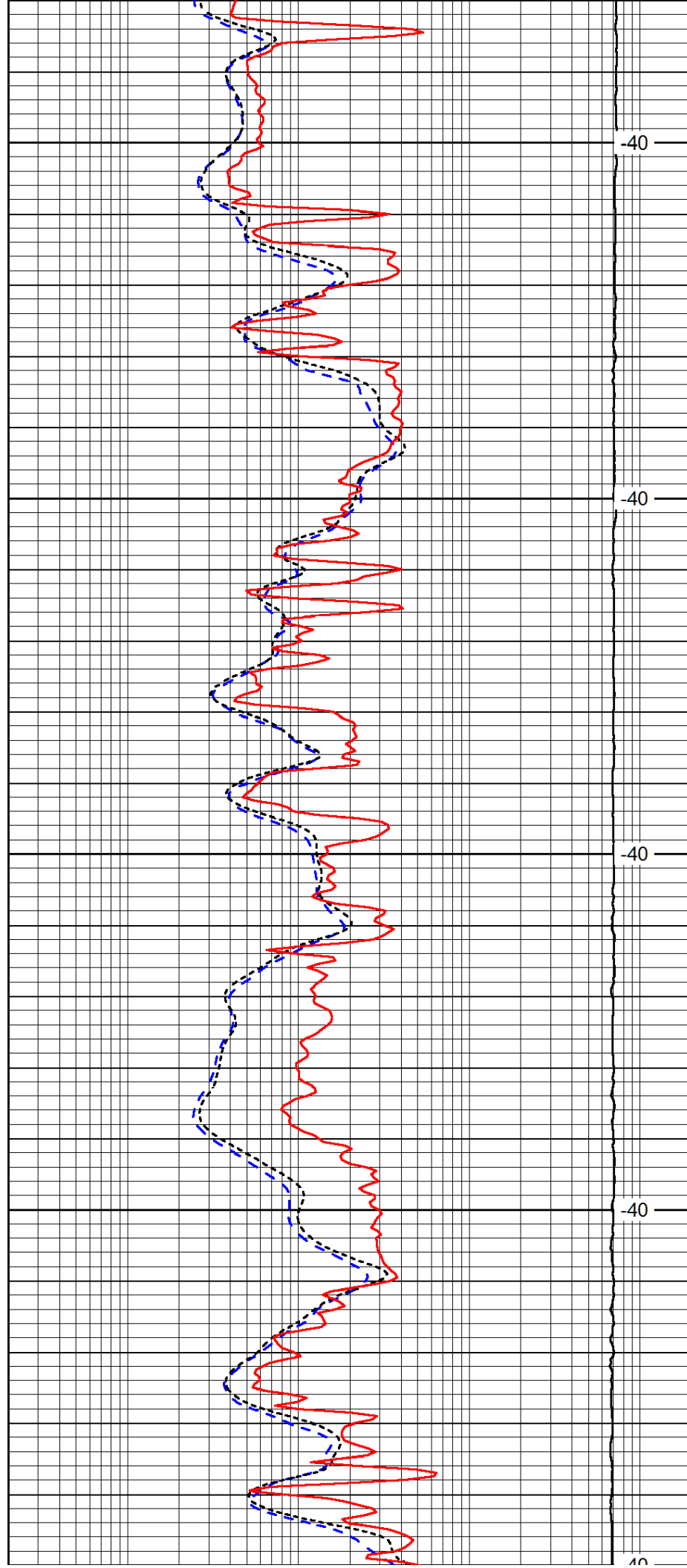
2850

2900

2950

3000

3050



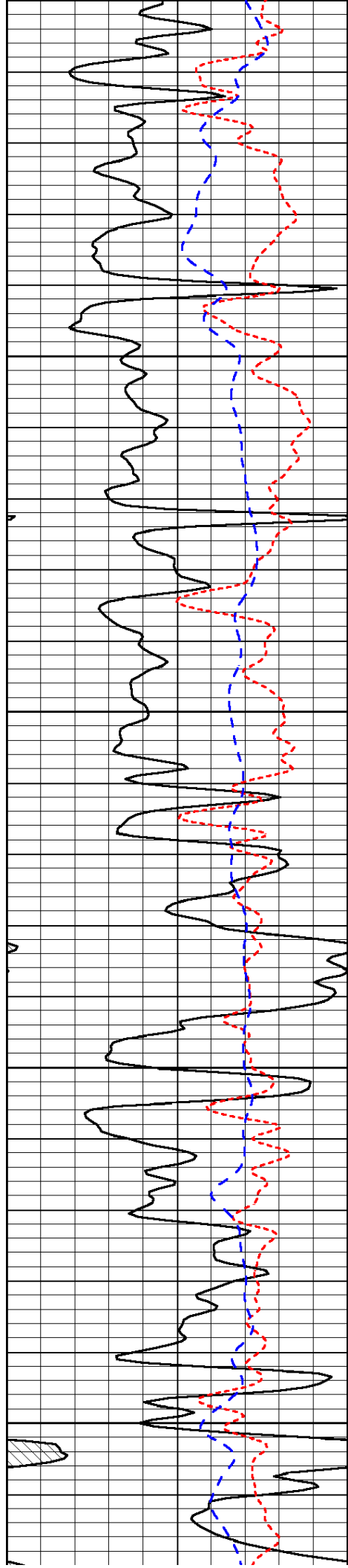
2850

2900

2950

3000

3050



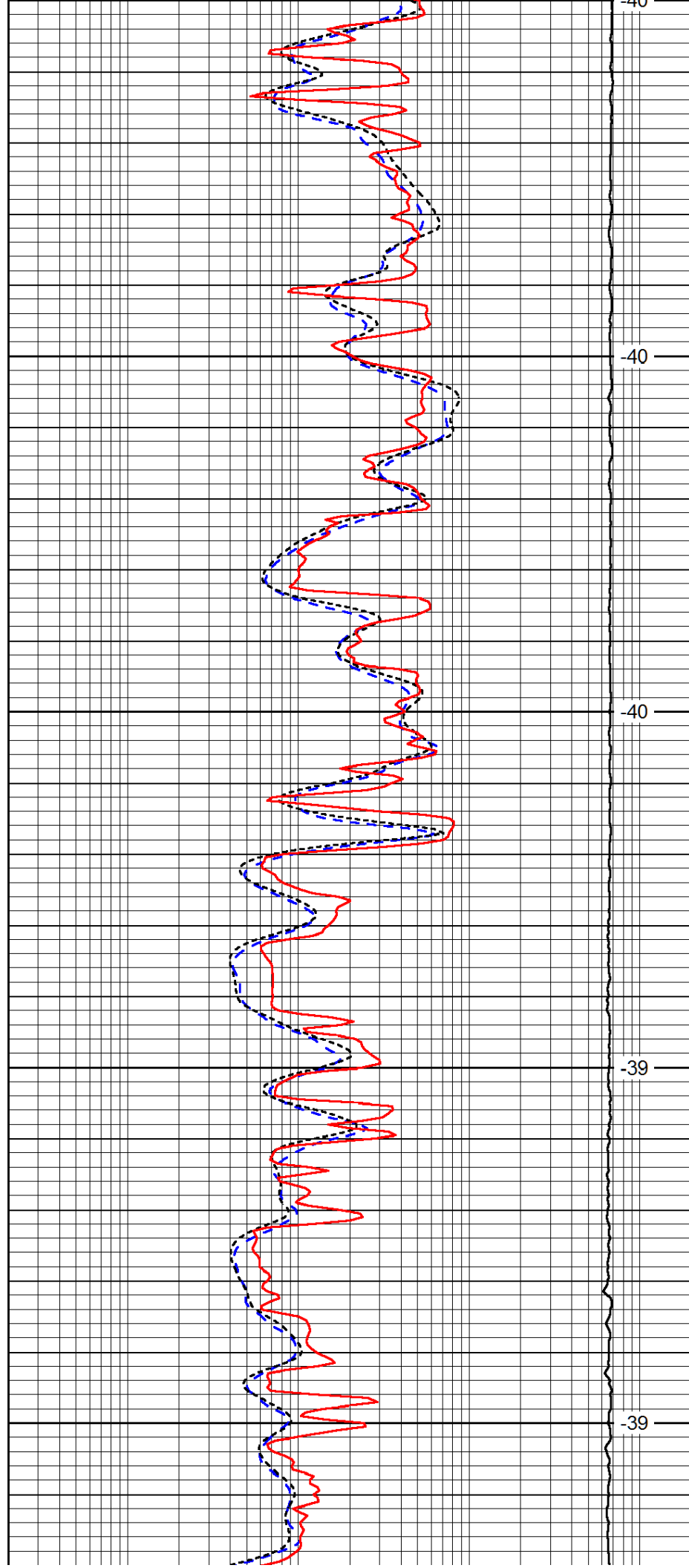
3050

3100

3150

3200

3250

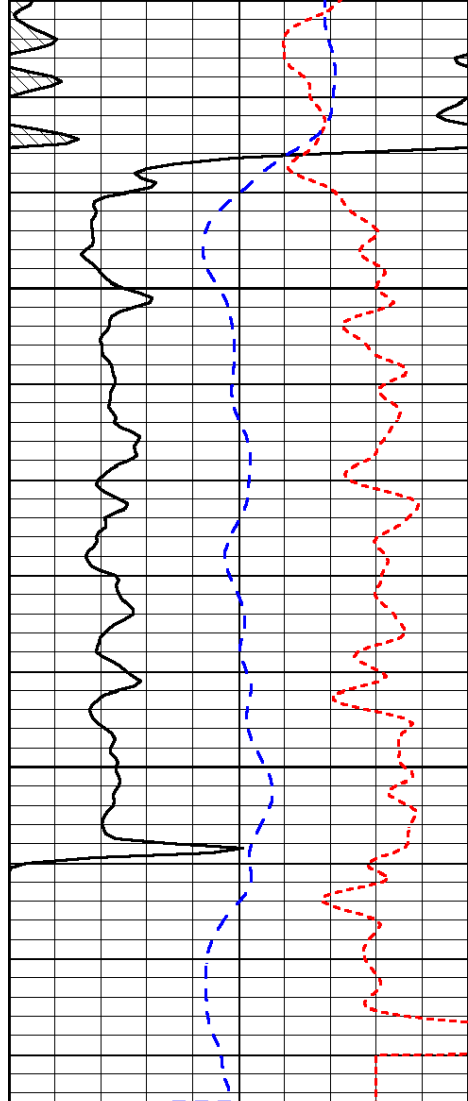


-40

-40

-39

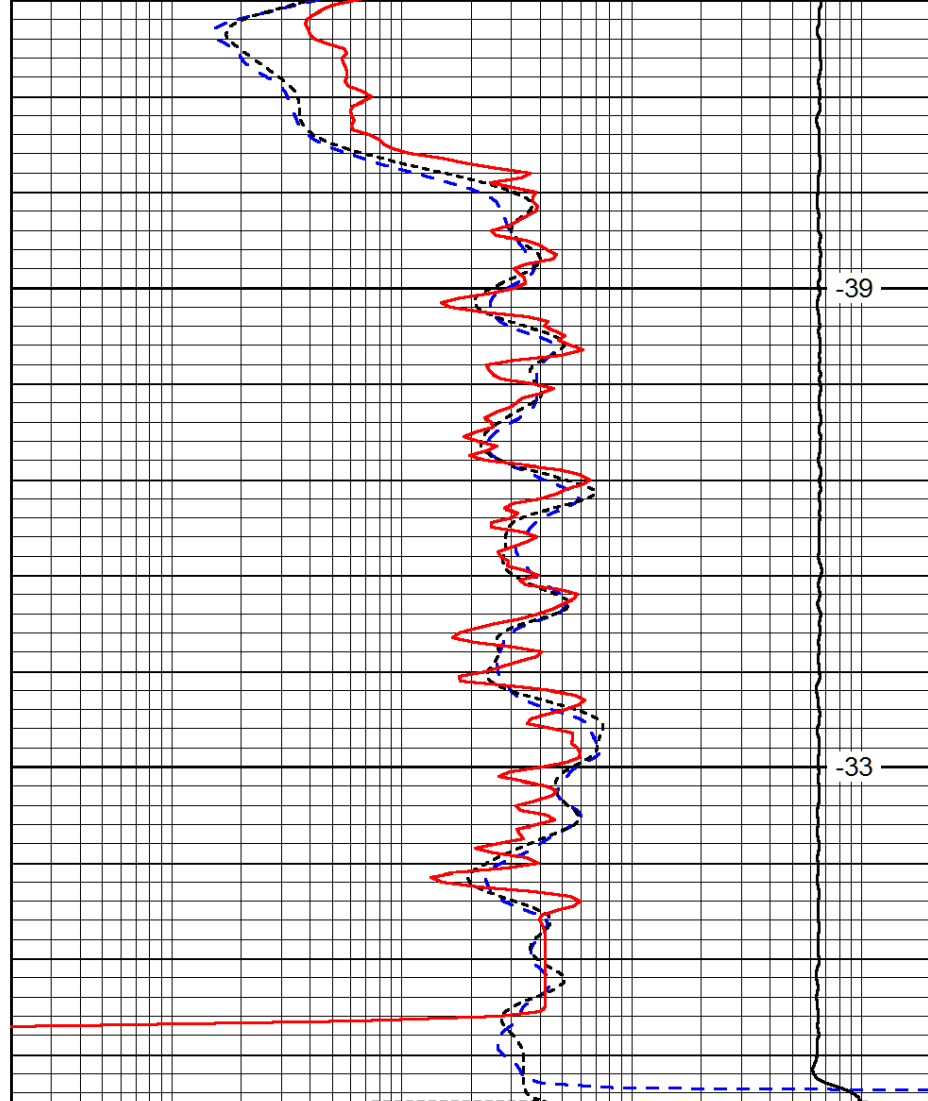
-39



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

3300

3350



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

LSPD