



Pioneer Energy Services

Dual Induction Log

API No.		Company Hess Oil Company			
		Well McCurdy #1			
		Field Wildcat			
		County	Ness	State	Kansas
15-135-25666-00-00		Location	SW SE NW SW 1600' FSL / 950' FWL		
		Sec: 16	Twp: 17S	Rge: 22W	Other Services CNL / CDL
Permanent Datum		Ground Level	Elevation 2296		
Log Measured From		Kelly Bushing	5	Ft. Above Perm. Datum	
Drilling Measured From		Kelly Bushing			
Date		9/28/2013			
Run Number		One			
Depth Driller		4400			
Depth Logger		4396			
Bottom Logged Interval		4395			
Top Log Interval		200			
Casing Driller		8.625 @ 217			
Casing Logger		216			
Bit Size		7.875			
Type Fluid in Hole		Chemical			
Salinity, ppm CL		9000			
Density / Viscosity		9.0	62		
pH / Fluid Loss		8.0	16.0		
Source of Sample		Flowline			
Rm @ Meas. Temp		0.60 @ 70			
Rmf @ Meas. Temp		0.45 @ 70			
Rmc @ Meas. Temp		0.81 @ 70			
Source of Rmf / Rmc		Charts			
Rm @ BHT		0.35 @ 120			
Operating Rig Time		2 Hours			
Max Rec. Temp. F		120			
Equipment Number		15			
Location		Hays			
Recorded By		R. Barnhart			
Witnessed By		Seth Evenson			

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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

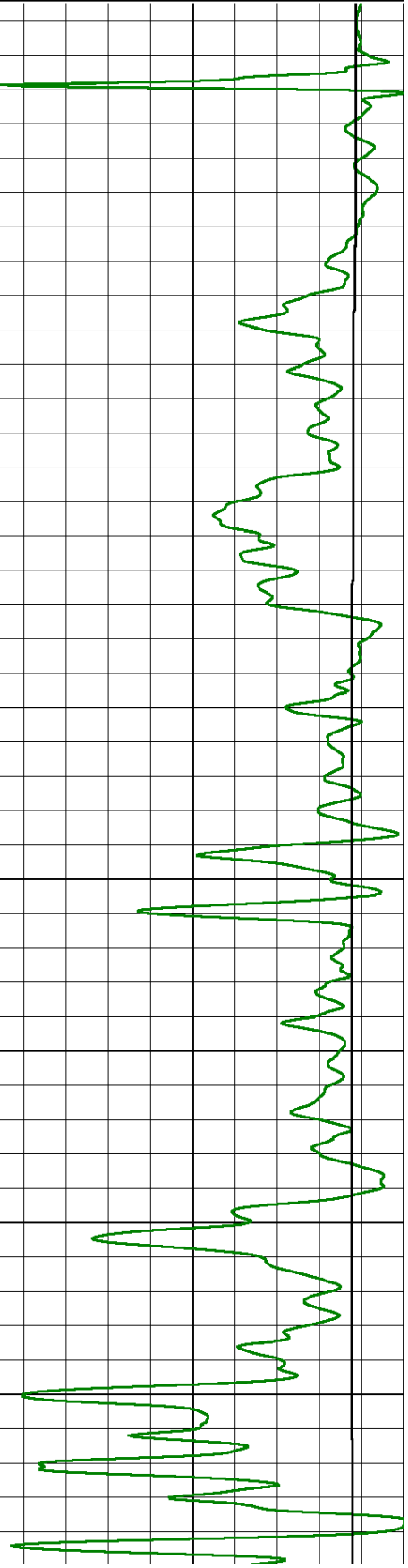
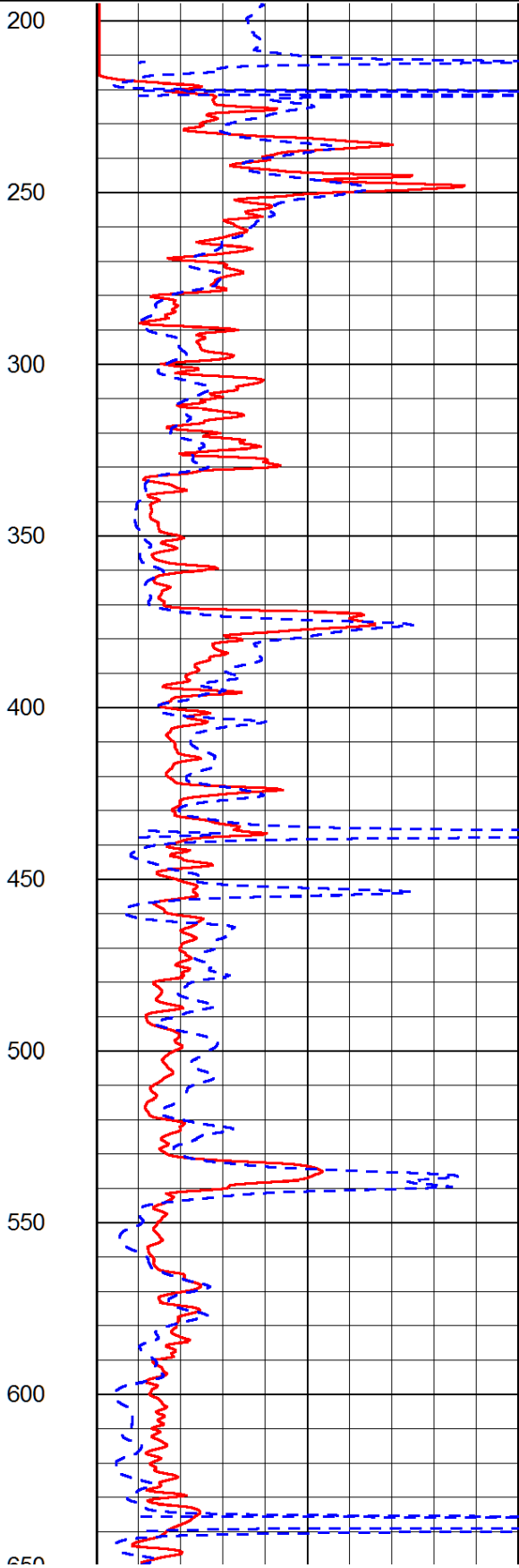
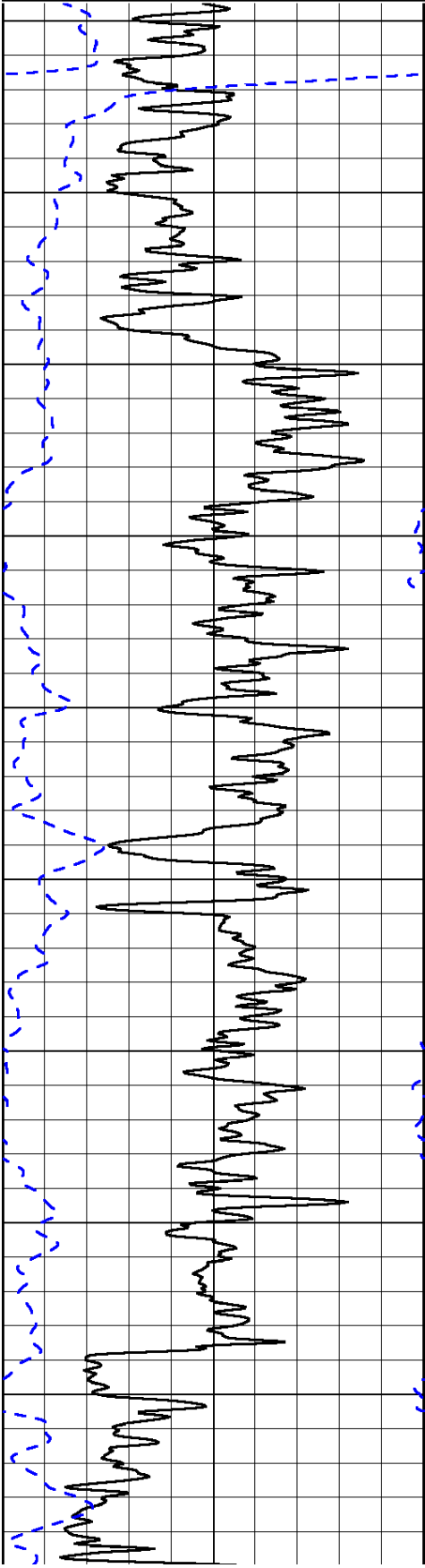
Brownell, KS:
1 1/2W, 5S, E into

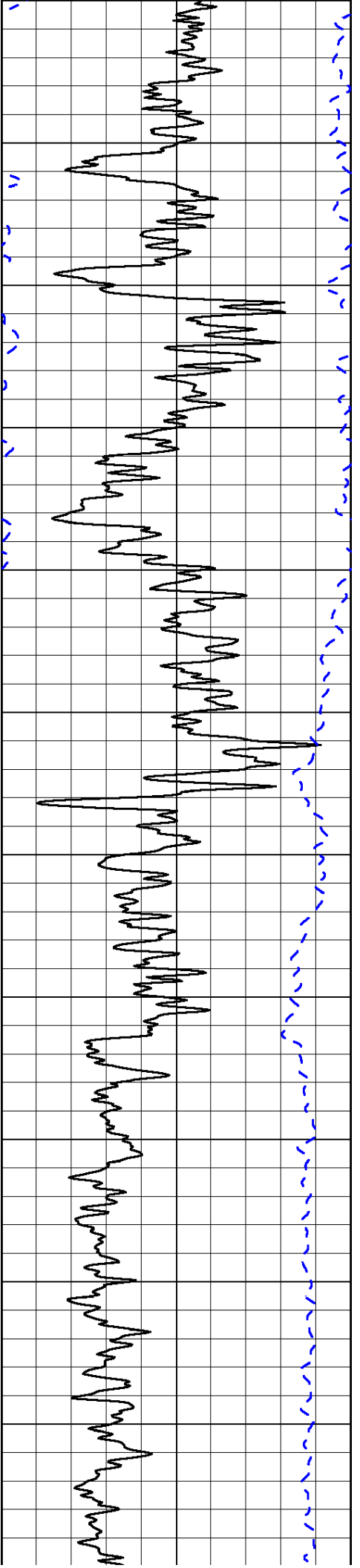
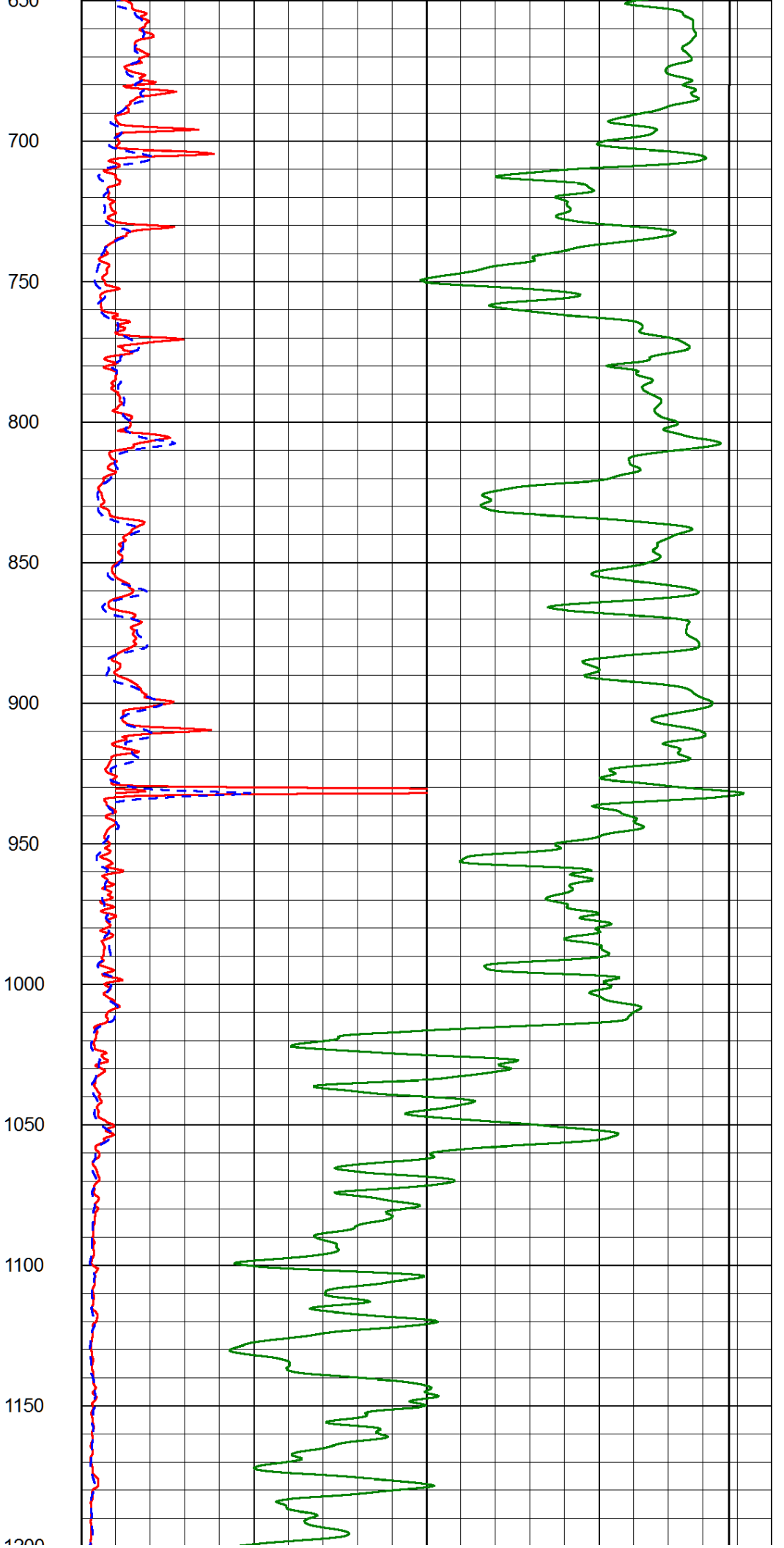
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Presentation Format: dil2in
Dataset Creation: Sat Sep 28 06:10:33 2013
Charted by: Depth in Feet scaled 1:600

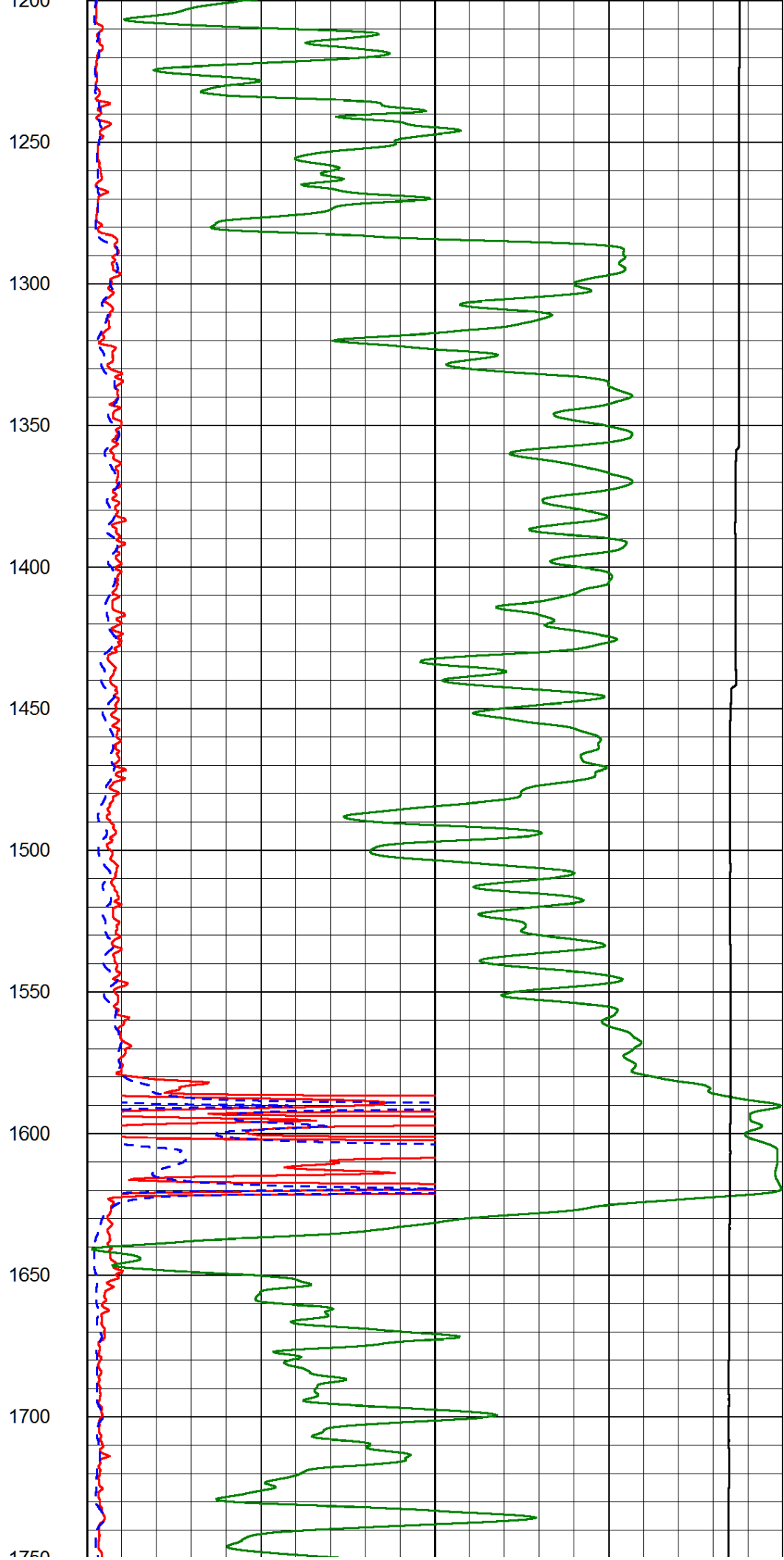
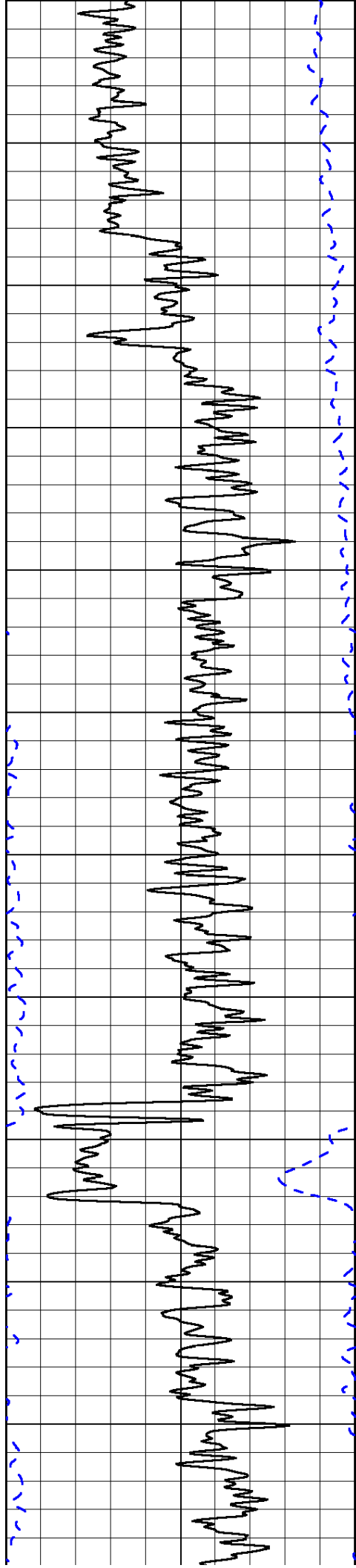
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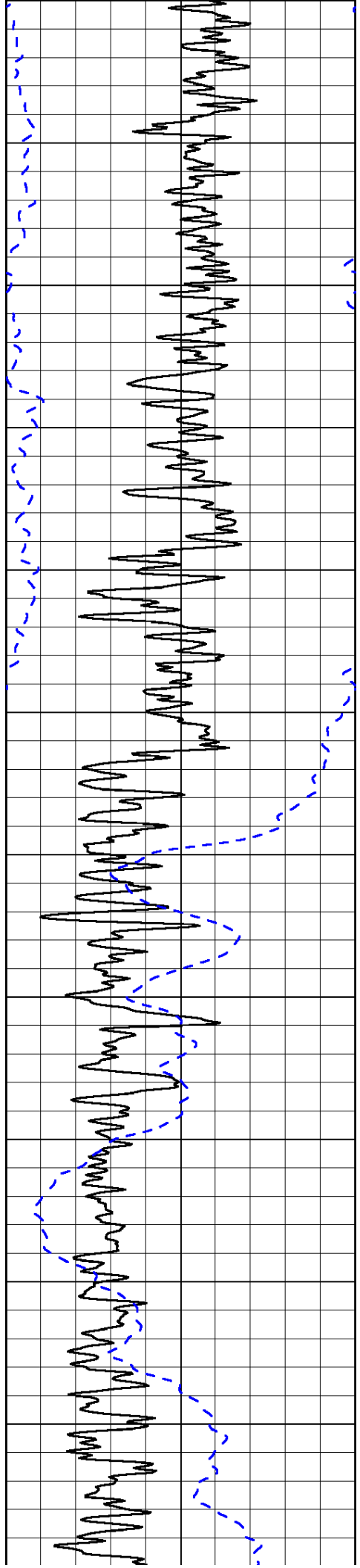
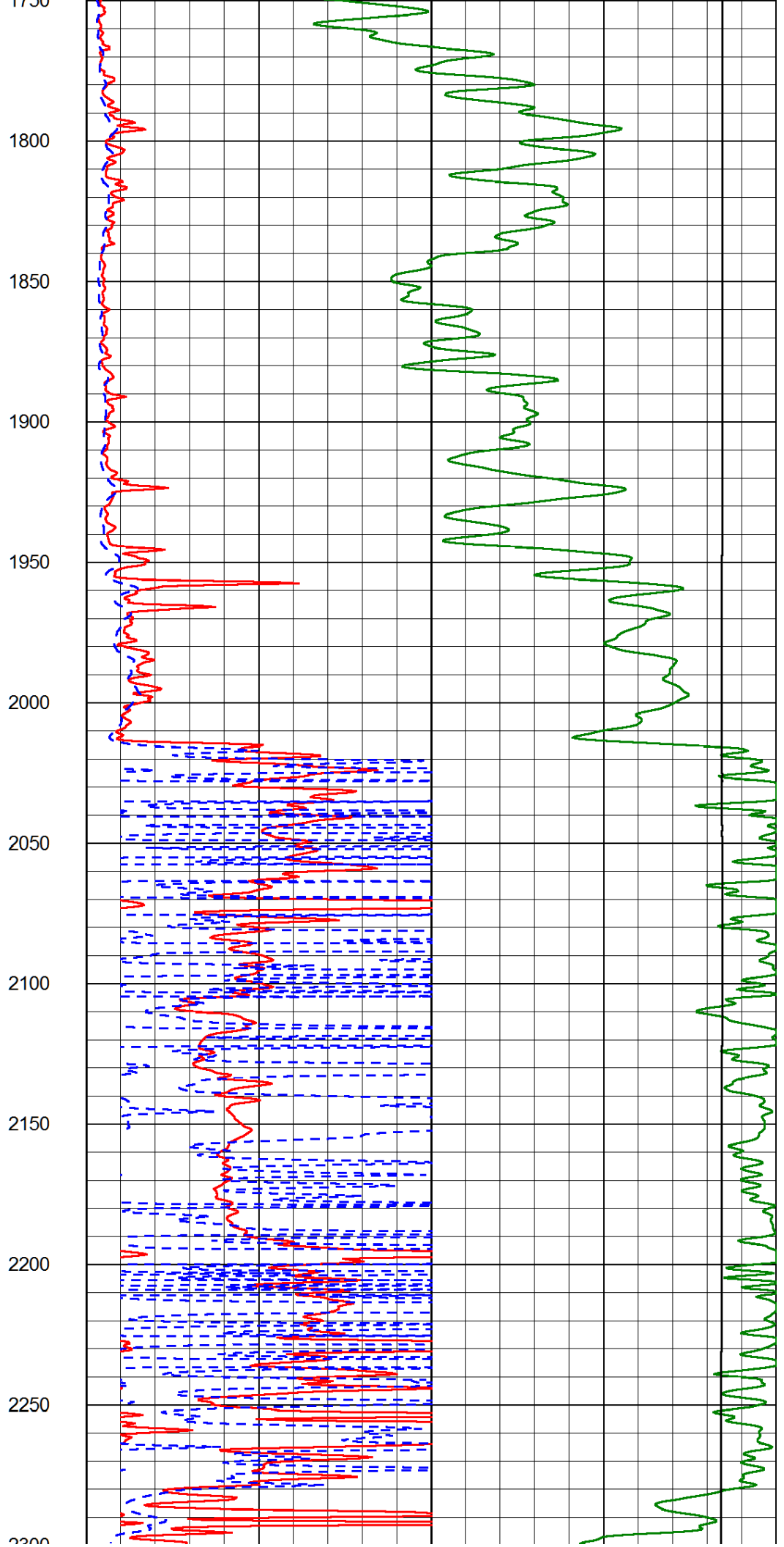
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-200	SP (mV)	0

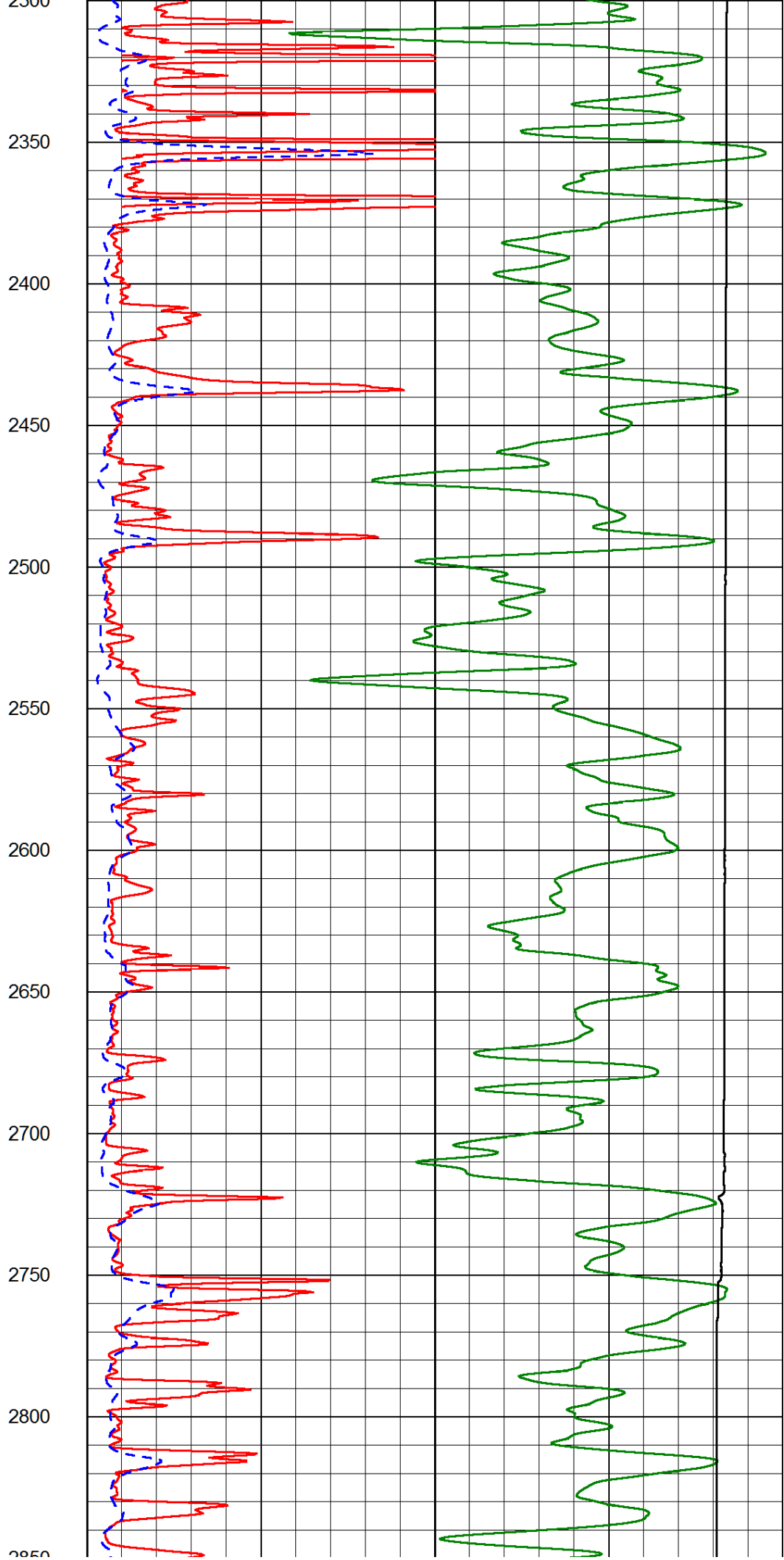
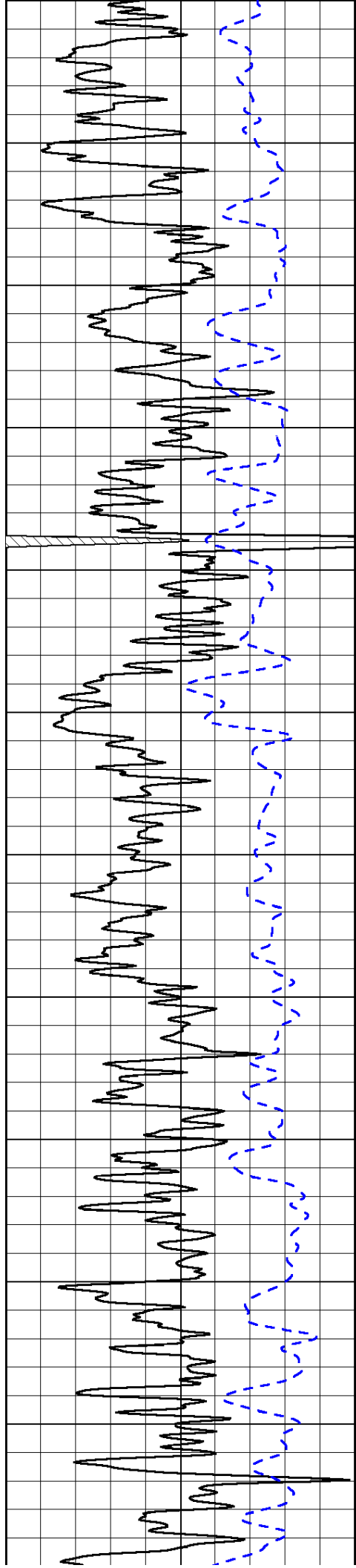
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0	Deep Resistivity (Ohm-m)	50
1000	Conductivity (Ohm-m)	0
15000	Line Tension (lb)	0
50	Shallow Resistivity (Ohm-m)	500
50	Deep Resistivity (Ohm-m)	500

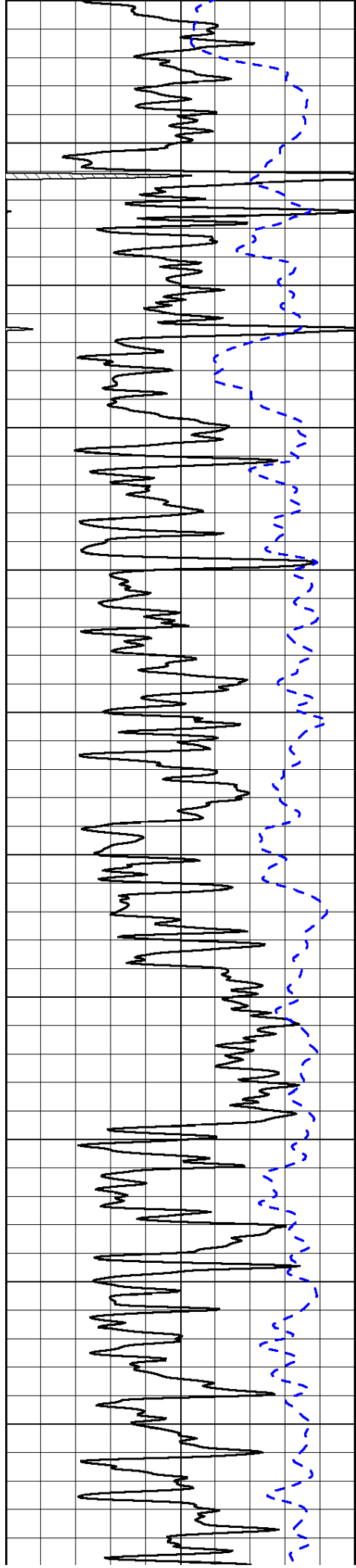




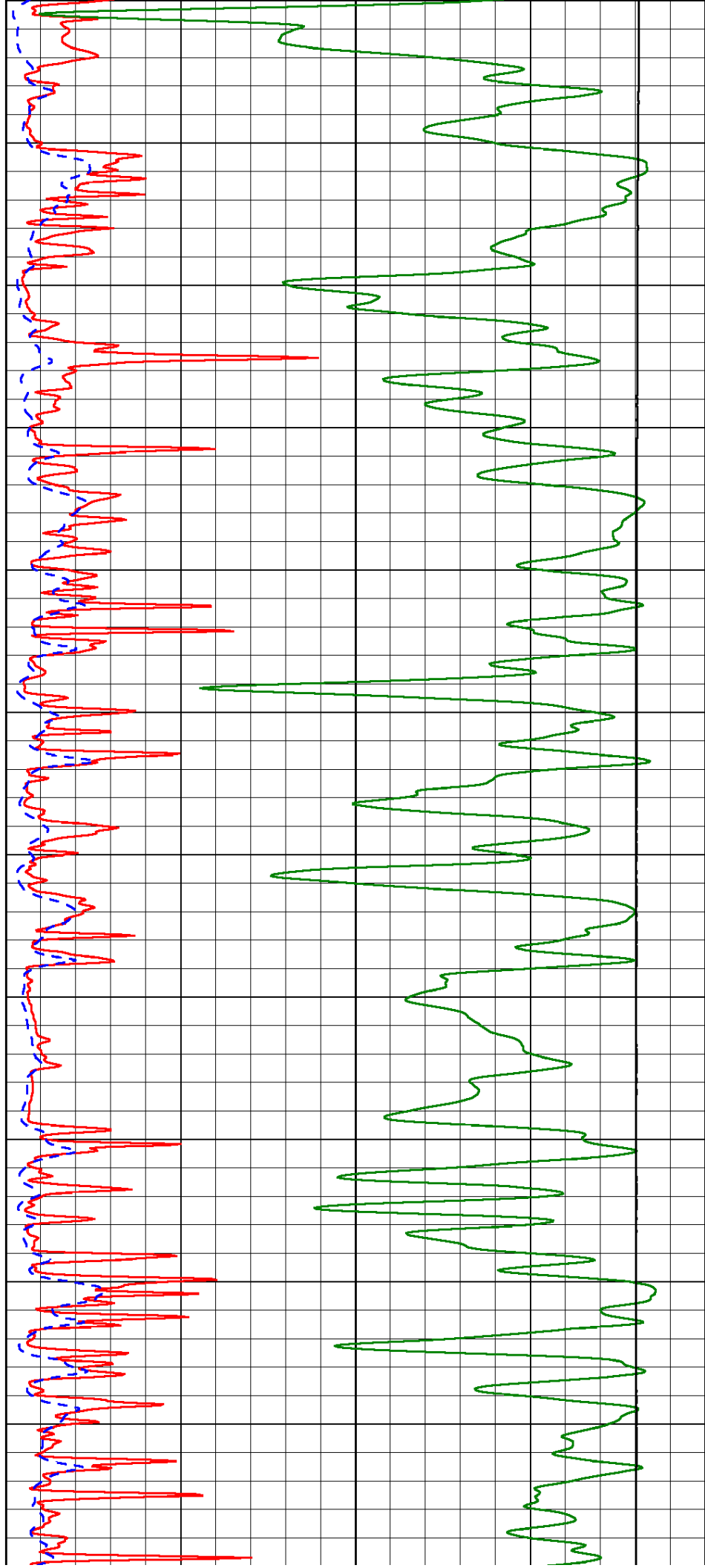


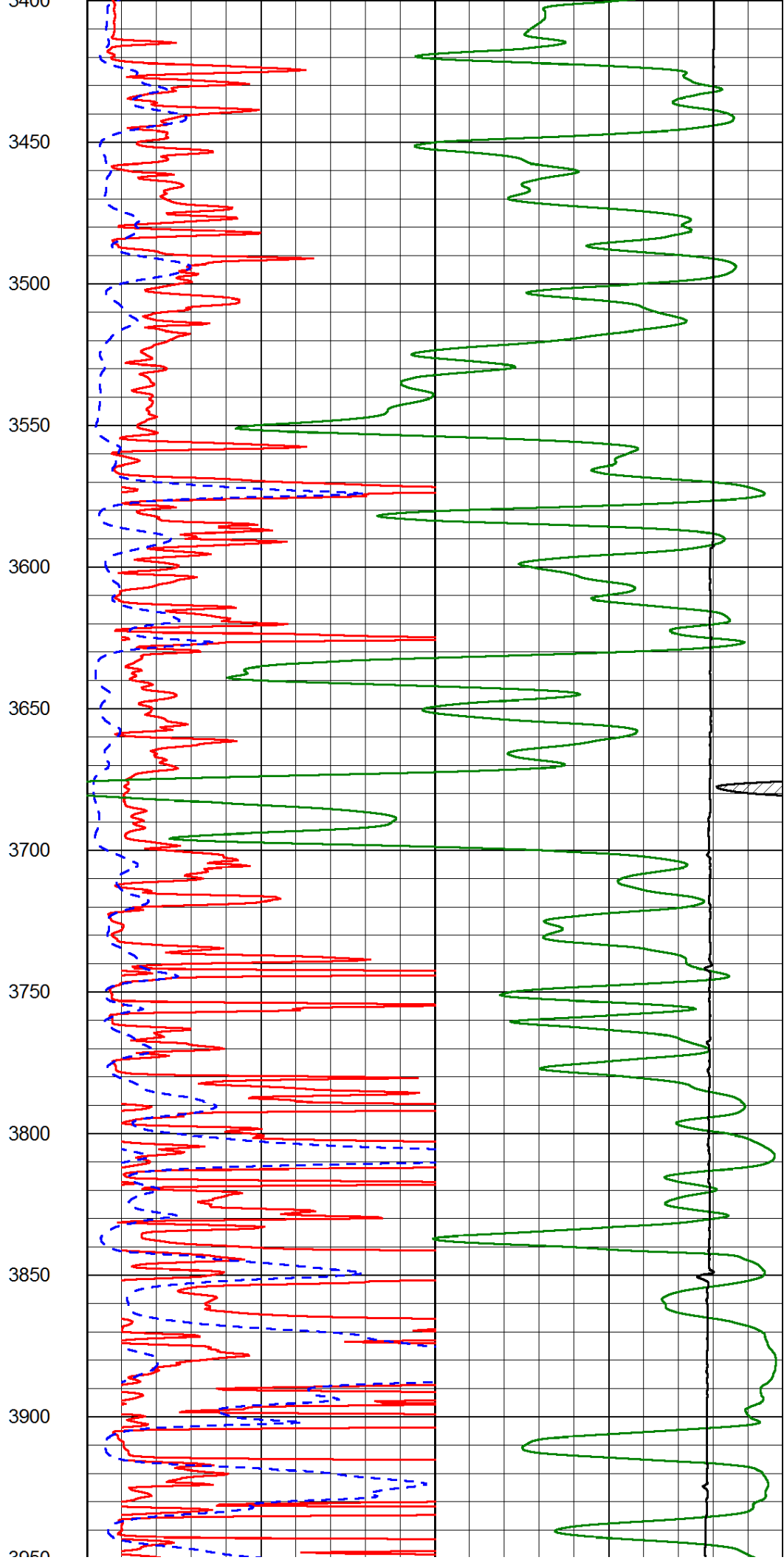
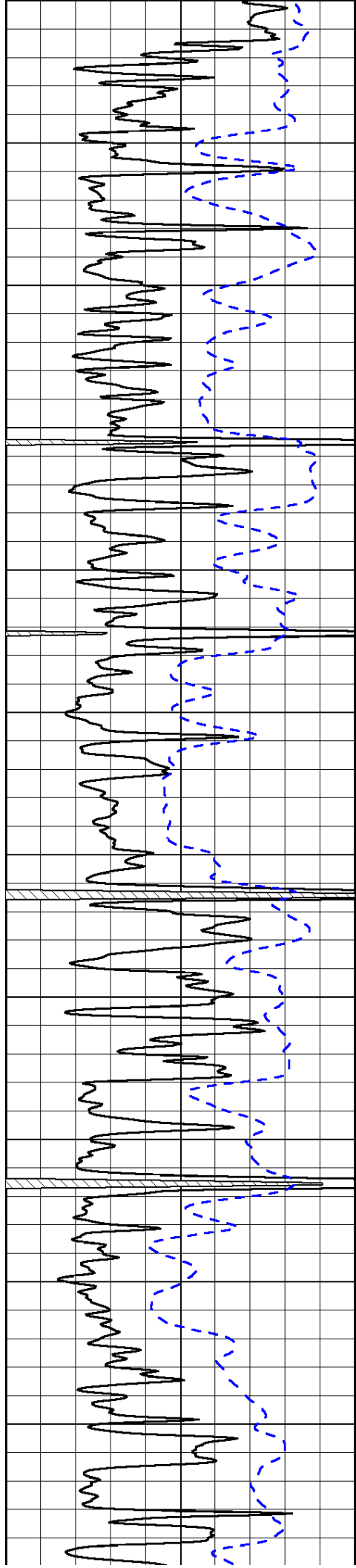


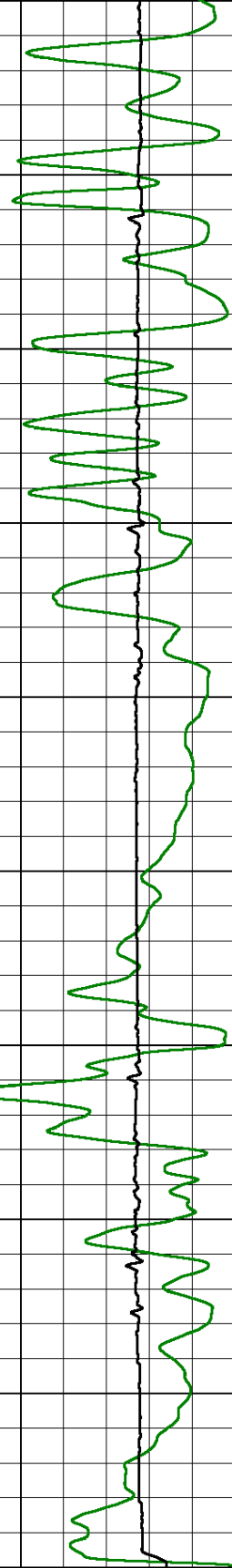
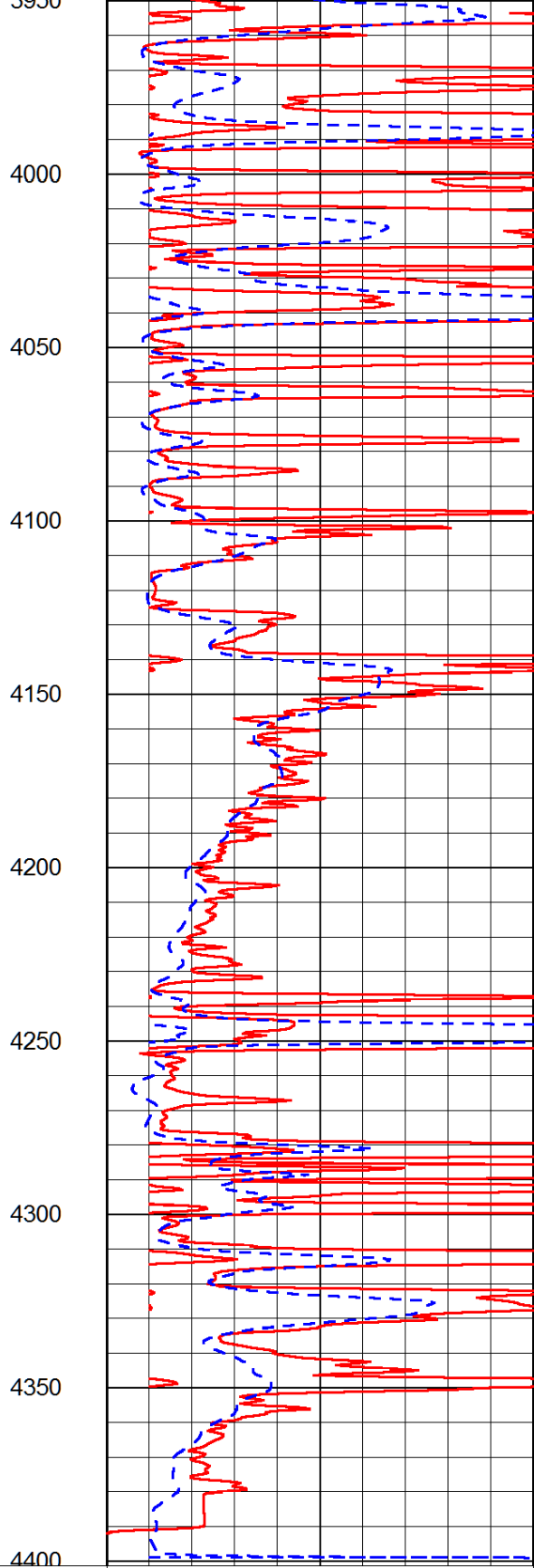
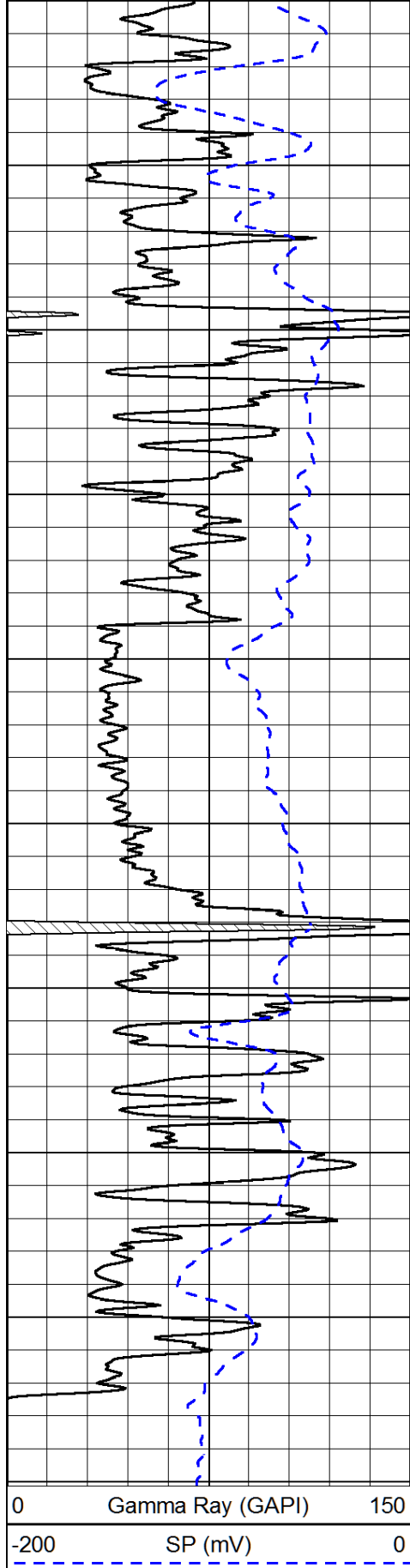




2850
2900
2950
3000
3050
3100
3150
3200
3250
3300
3350
3400







0 Gamma Ray (GAPI) 150
-200 SP (mV) 0

0 Shallow Resistivity (Ohm-m) 50
0 Deep Resistivity (Ohm-m) 50
1000 Conductivity (Ohm-m) 0
15000 Line Tension (lb) 0

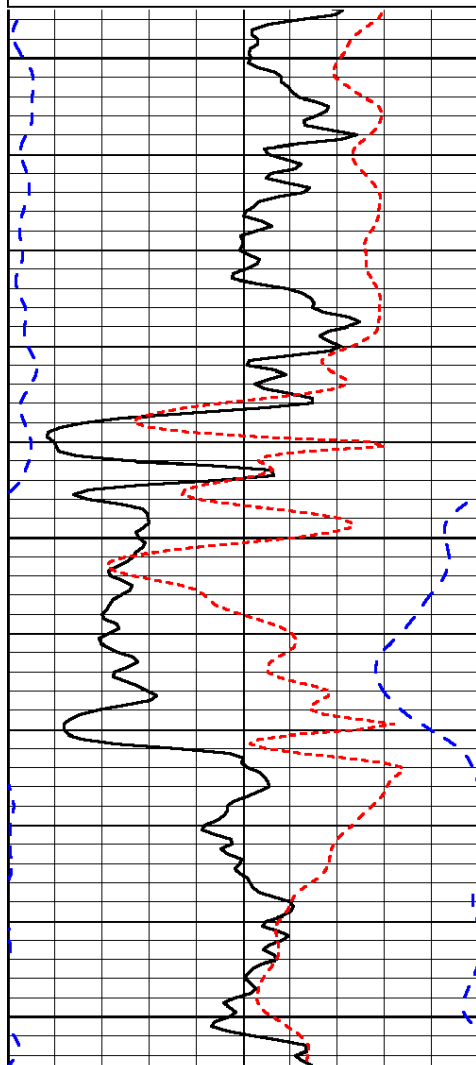
Shallow Resistivity
50 (Ohm-m) 500
50 Deep Resistivity (Ohm-m) 500

Database File: hess_hd.db
Dataset Pathname: dil/hsmain
Presentation Format: dil
Dataset Creation: Sat Sep 28 06:10:33 2013
Charted by: Depth in Feet scaled 1:240

0	Gamma Ray (GAPI)	150
-160	RXO/RT	40
-200	SP (mV)	0

0.2	Deep Resistivity (Ohm-m)	2000
0.2	Medium Resistivity (Ohm-m)	2000
0.2	Shallow Resistivity (Ohm-m)	2000
10000	Line Tension (lb)	0

LSPD
(ft/min)

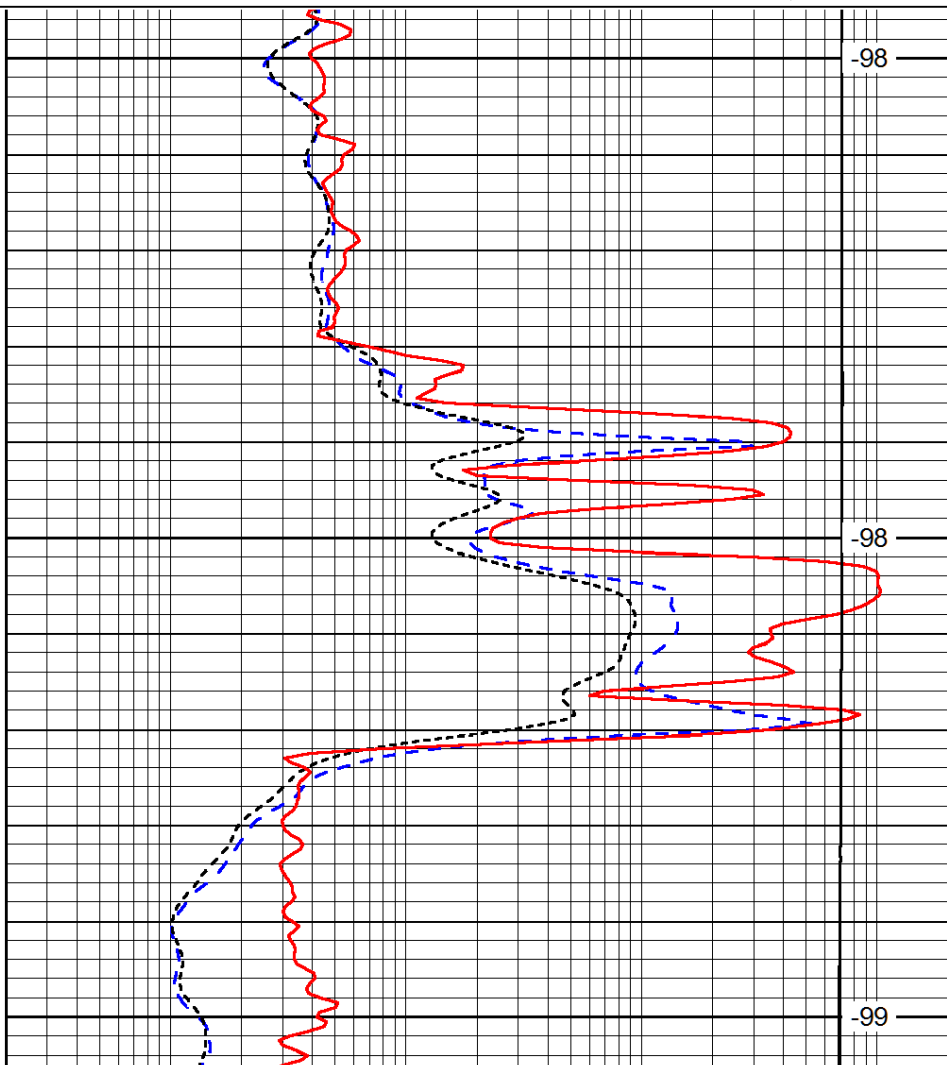


1550

1600

1650

0	Gamma Ray (GAPI)	150
-160	RXO/RT	40
-200	SP (mV)	0



-98

-98

-99

0.2	Deep Resistivity (Ohm-m)	2000
0.2	Medium Resistivity (Ohm-m)	2000
0.2	Shallow Resistivity (Ohm-m)	2000
10000	Line Tension (lb)	0

LSPD
(ft/min)

Database File: hess_hd.db
Dataset Pathname: dil/hsmain
Presentation Format: dil
Dataset Creation: Sat Sep 28 06:10:33 2013
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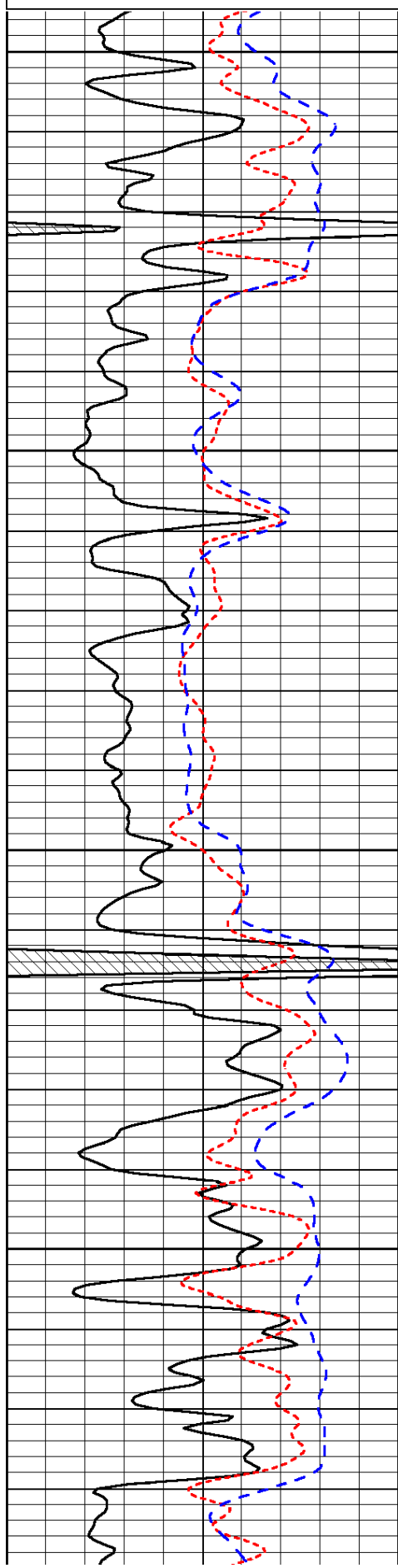
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0.2	Deep Resistivity (Ohm-m)	2000
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-160	RXO/RT	40
-200	SP (mV)	0

0.2	Medium Resistivity (Ohm-m)	2000
0.2	Shallow Resistivity (Ohm-m)	2000
10000	Line Tension (lb)	0

LSPD
(ft/min)

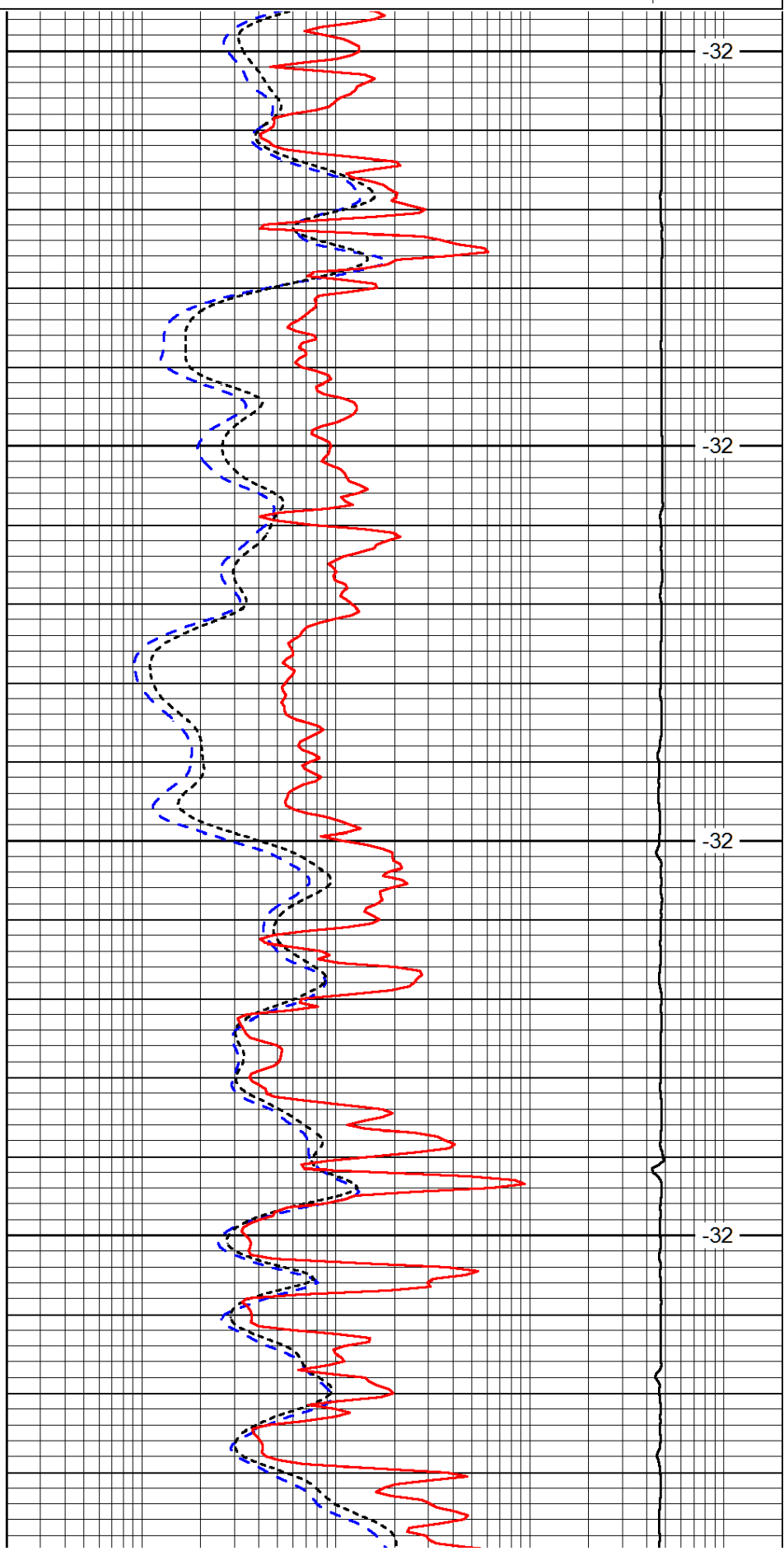


3600

3650

3700

3750

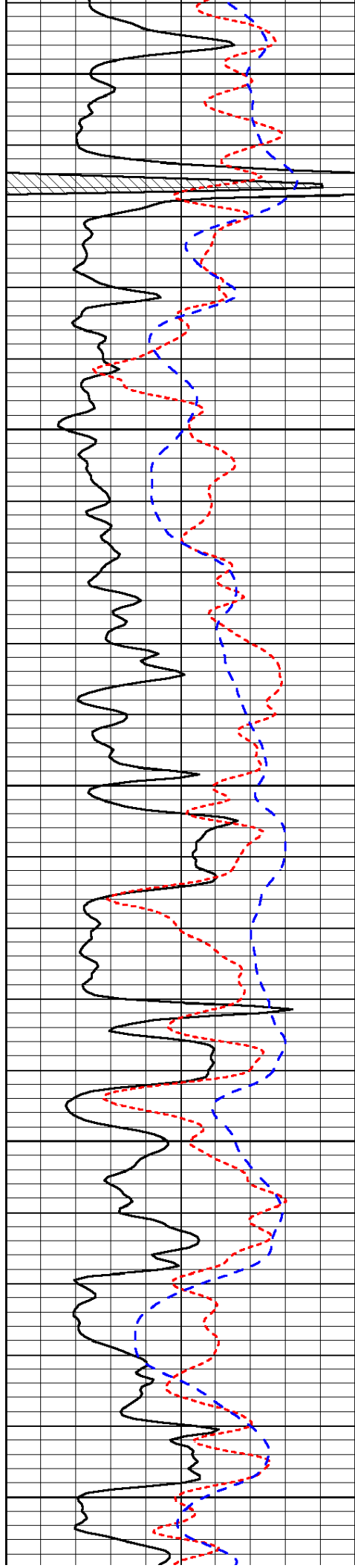


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-32

-32



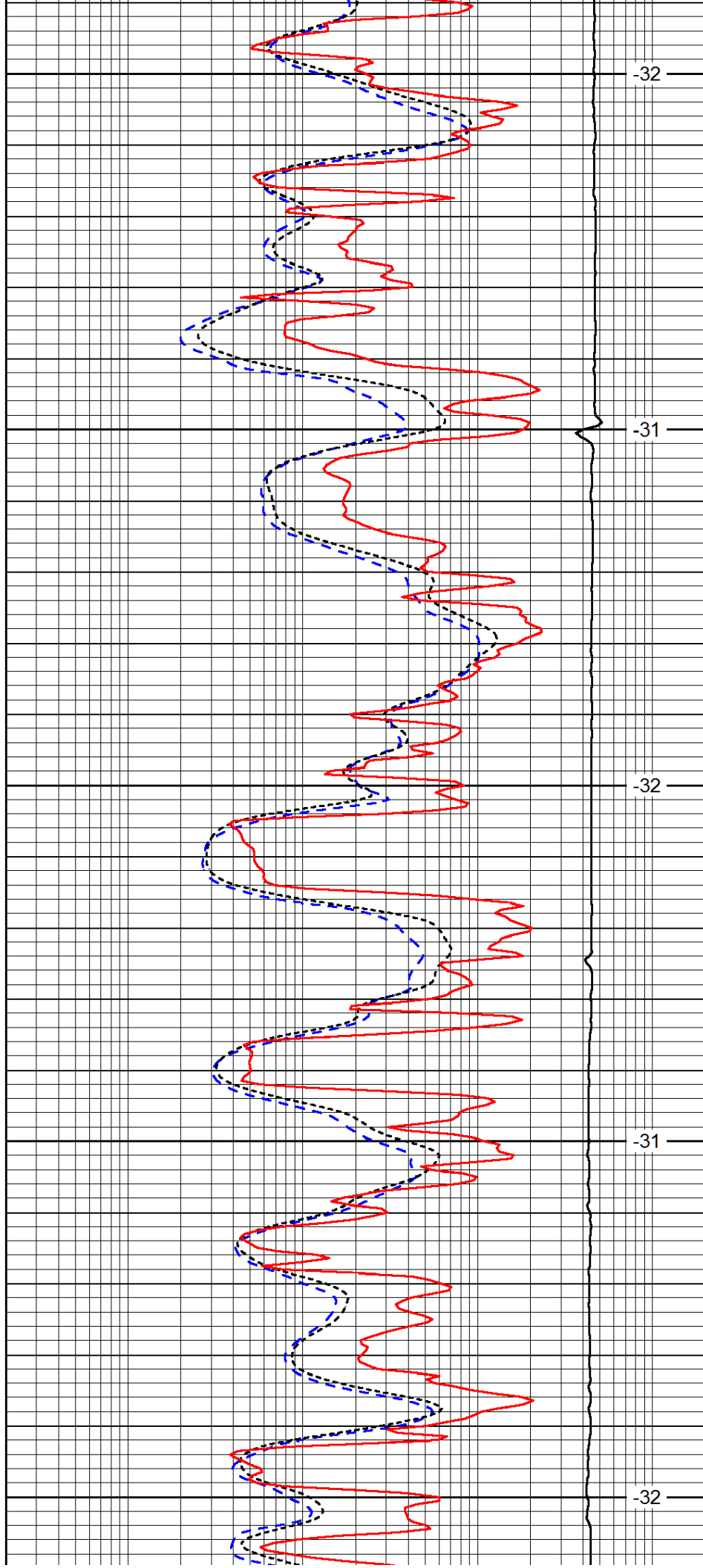
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3850

3900

3950

4000



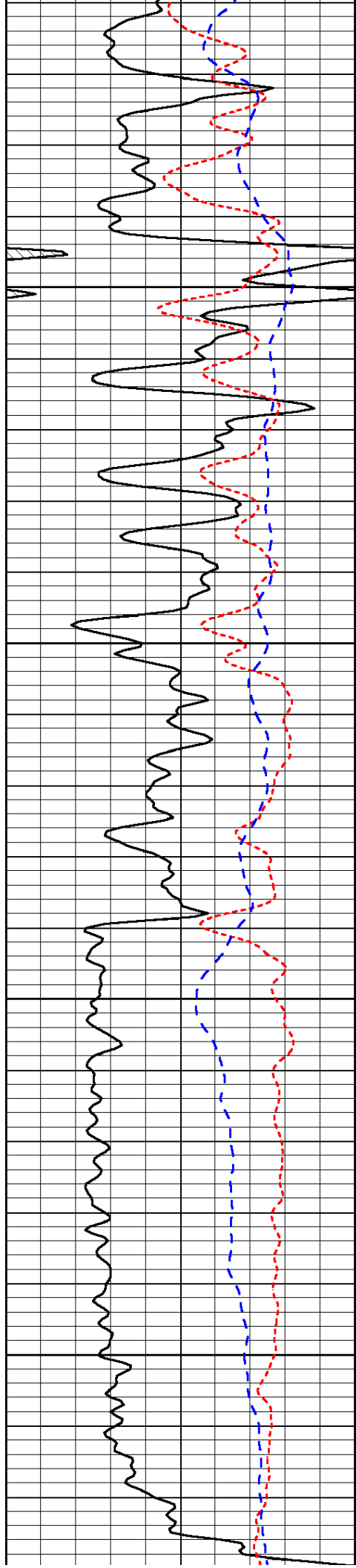
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-32

-31

-32

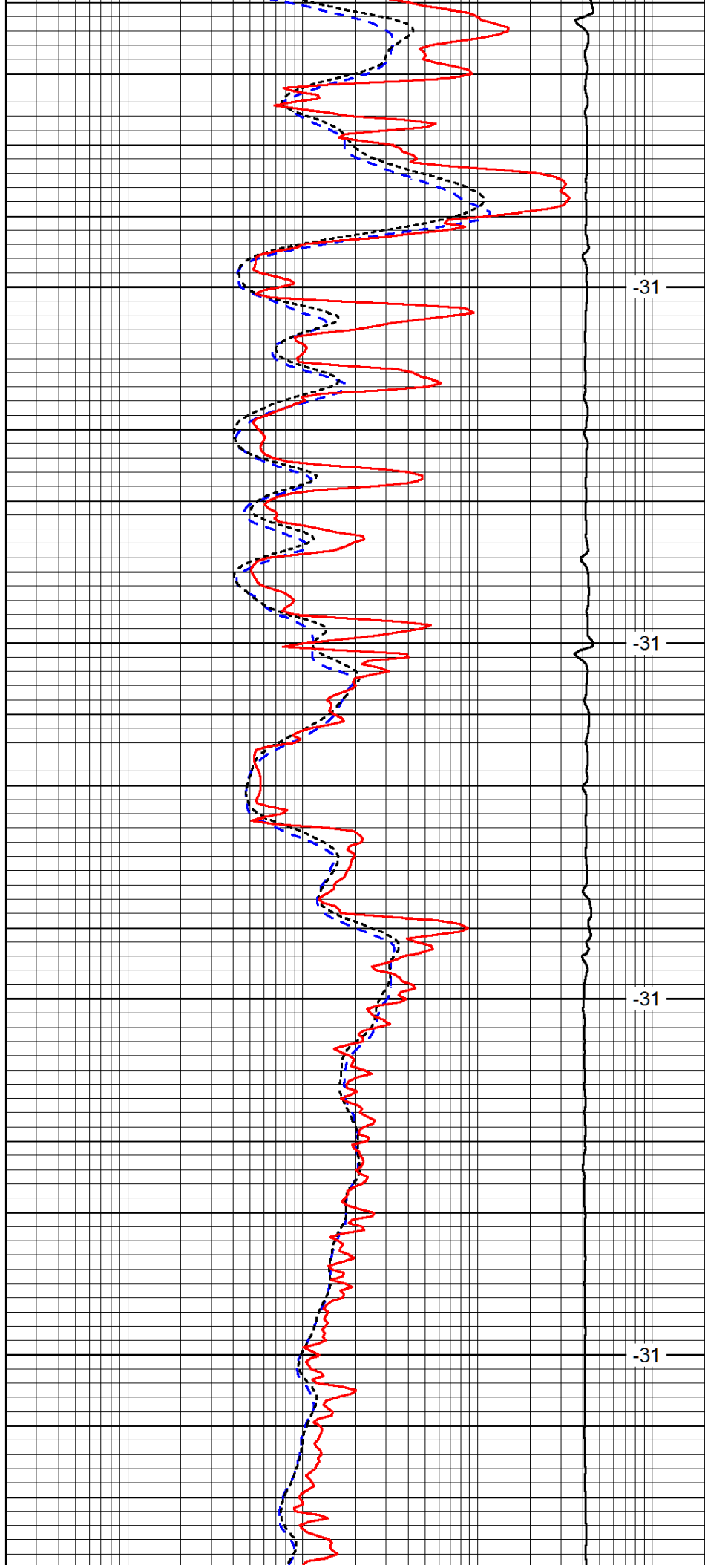


4050

4100

4150

4200

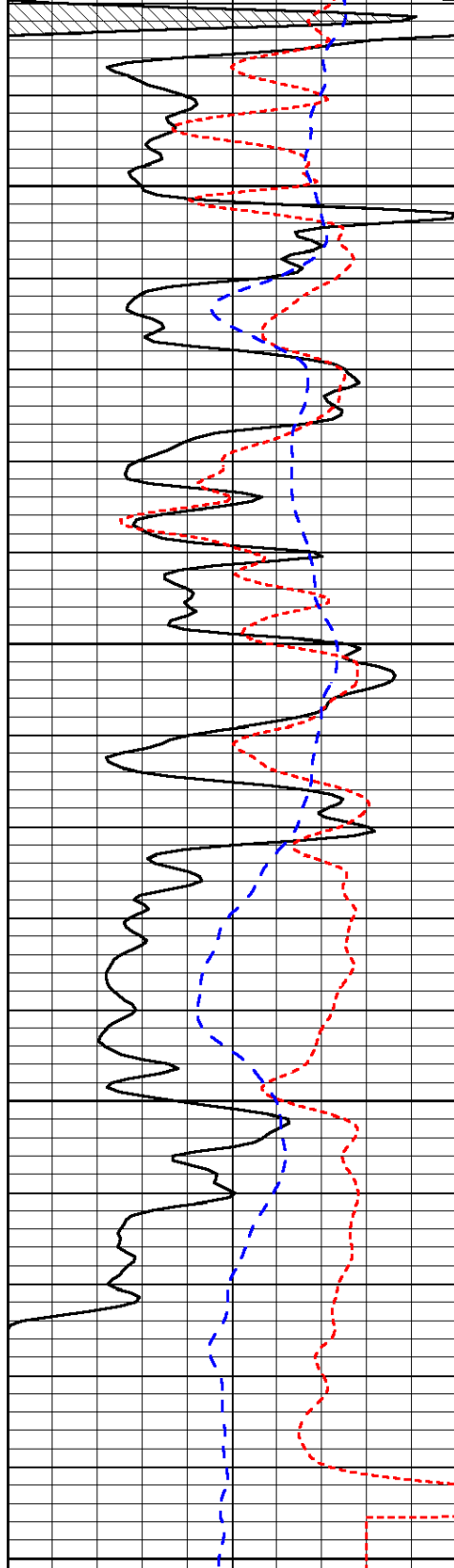


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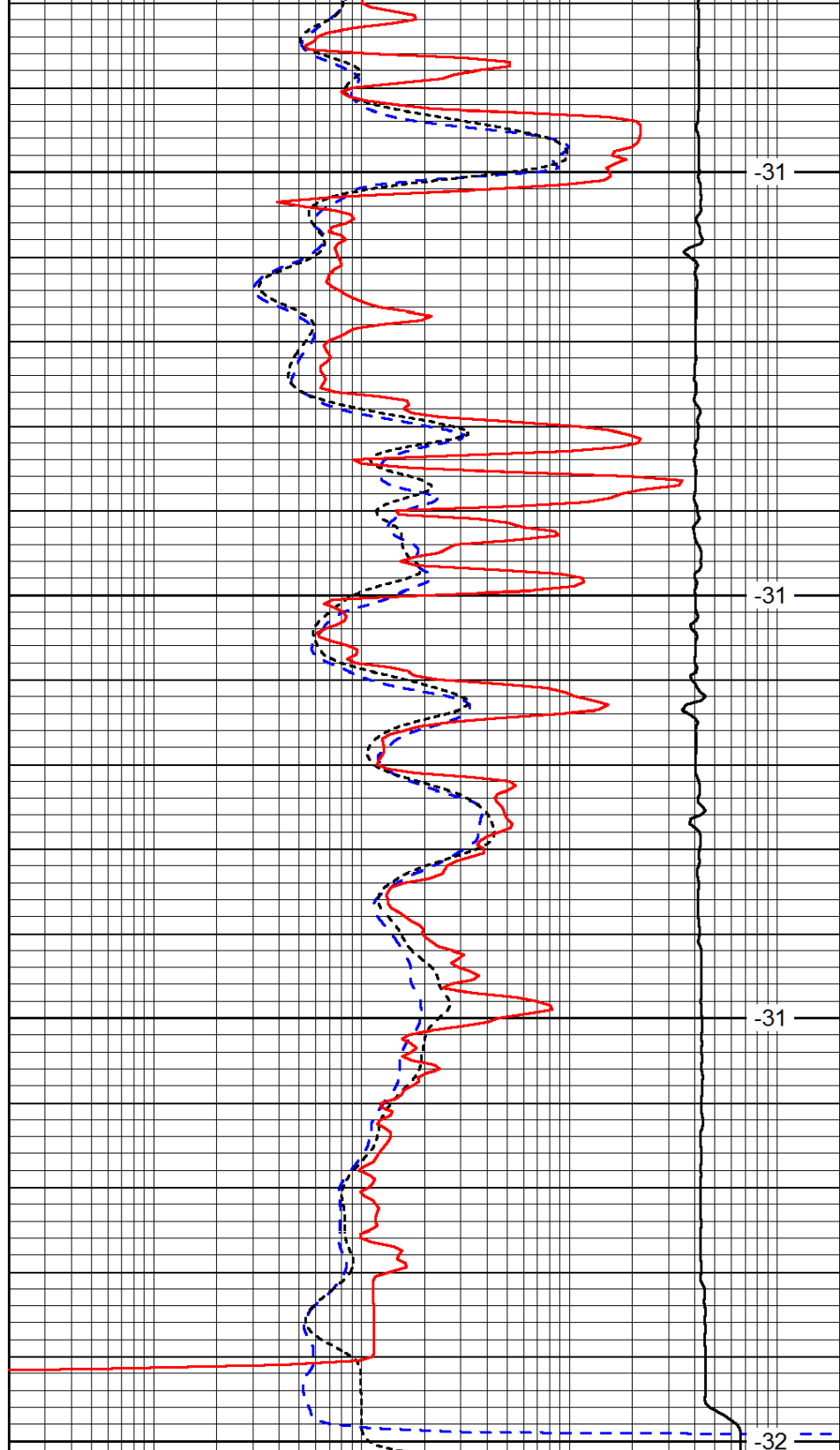
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-31



0	Gamma Ray (GAPI)	150
-160	RXO/RT	40
-200	SP (mV)	0

4250
4300
4350
4400



0.2	Deep Resistivity (Ohm-m)	2000
0.2	Medium Resistivity (Ohm-m)	2000
0.2	Shallow Resistivity (Ohm-m)	2000
10000	Line Tension (lb)	0

LSPD
(ft/min)