



Pioneer Energy Services

Dual Induction Log

API No.	15-009-25,778-00-00		
Company	LD Drilling, Inc.		
Well	Lyle No. 1-14		
Field	Chase-Silica		
County	Barton	State	Kansas
Location	SE-NW-NW-NW 4701' FSL & 554' FWL		
Sec: 14	Twp: 20S	Rge: 11W	Other Services CNL/CDL MEL

Permanent Datum	Ground Level	Elevation 1754	K.B. 1759
Log Measured From	Kelly Bushing	5 Ft. Above Perm. Datum	D.F. 1754
Drilling Measured From	Kelly Bushing		G.L. 1754
Date	7/1/2013		
Run Number	One		
Depth Driller	3400		
Depth Logger	3401		
Bottom Logged Interval	3400		
Top Log Interval	350		
Casing Driller	8.625 @ 384		
Casing Logger	385		
Bit Size	7.875		
Type Fluid in Hole	Chemical		
Salinity, ppm CL	7.000		
Density / Viscosity	8.7	52	
pH / Fluid Loss	10.0	10.2	
Source of Sample	Flowline		
Rm @ Meas. Temp	.50	@ 75	
Rmf @ Meas. Temp	.38	@ 75	
Rmc @ Meas. Temp	.68	@ 75	
Source of Rmf / Rmc	Charts		
Rm @ BHT	.34	@ 110	
Operating Rig Time	4 Hours		
Max Rec. Temp. F	110		
Equipment Number	15		
Location	Hays		
Recorded By	J. Hennickson		
Witnessed By	Kurt Talbott		

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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

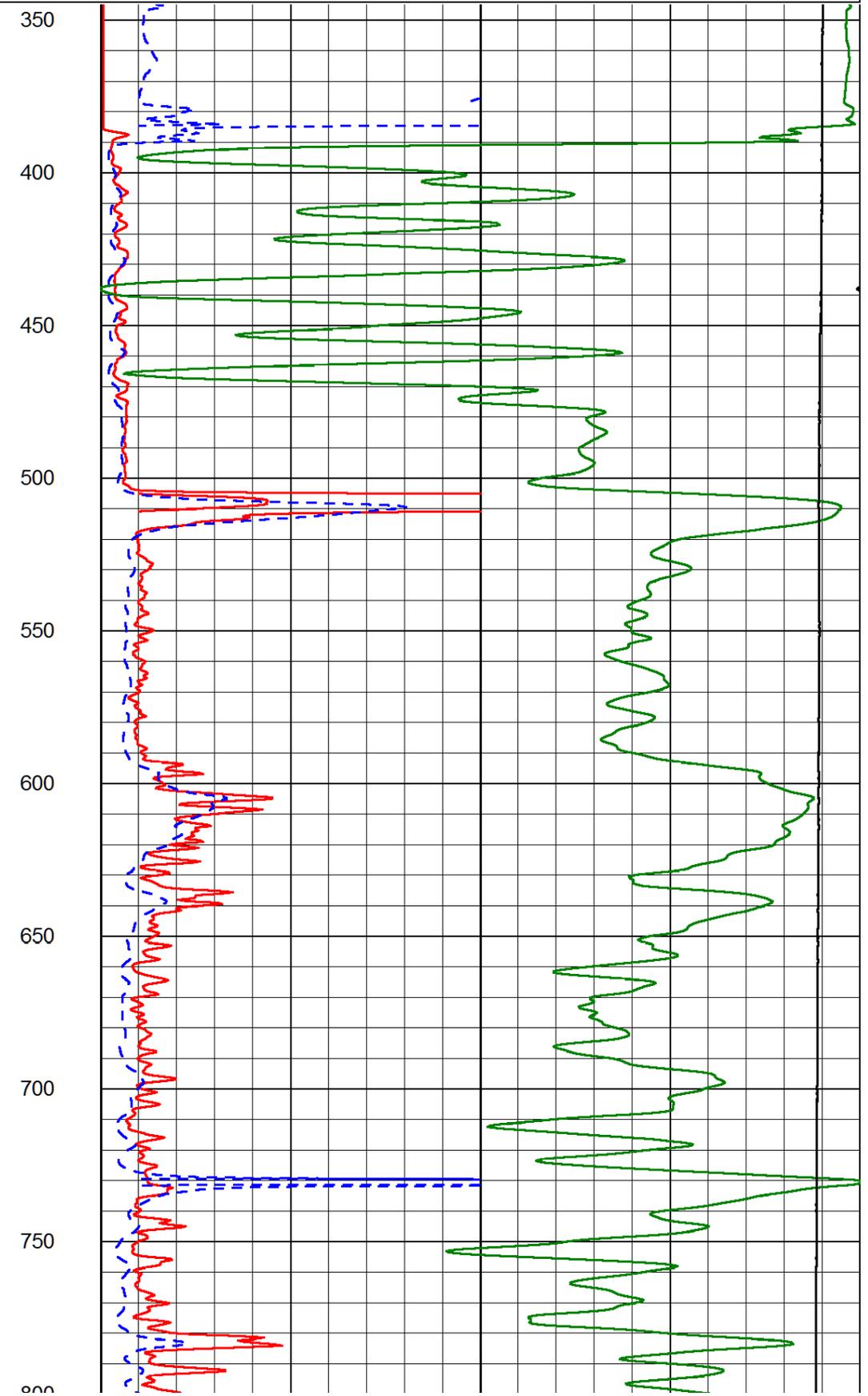
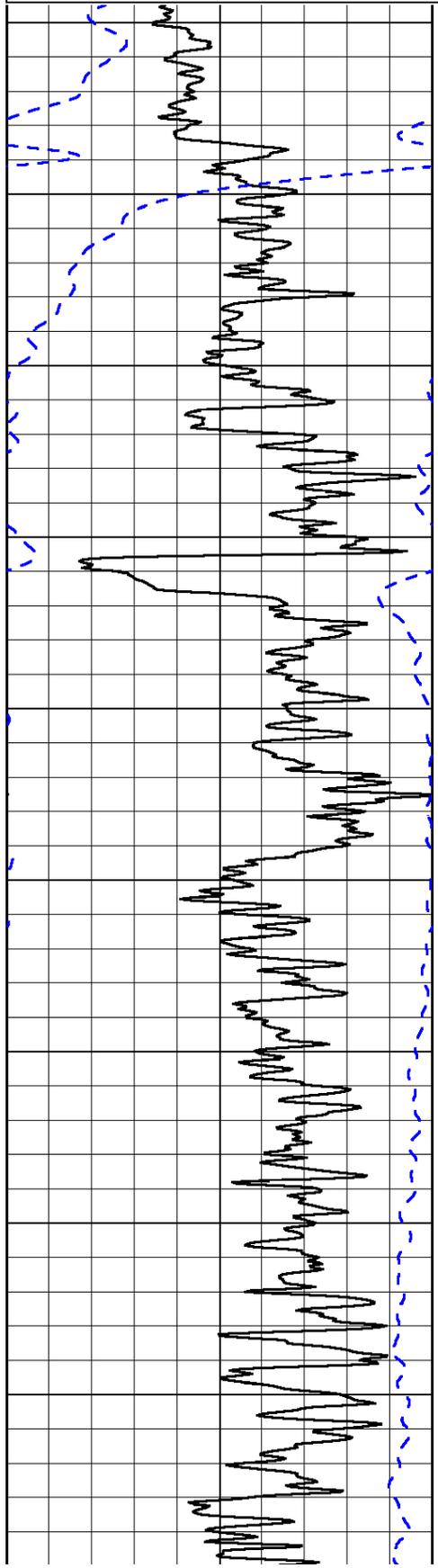
Thank you for using Log-Tech, Inc.
(785) 625-3858

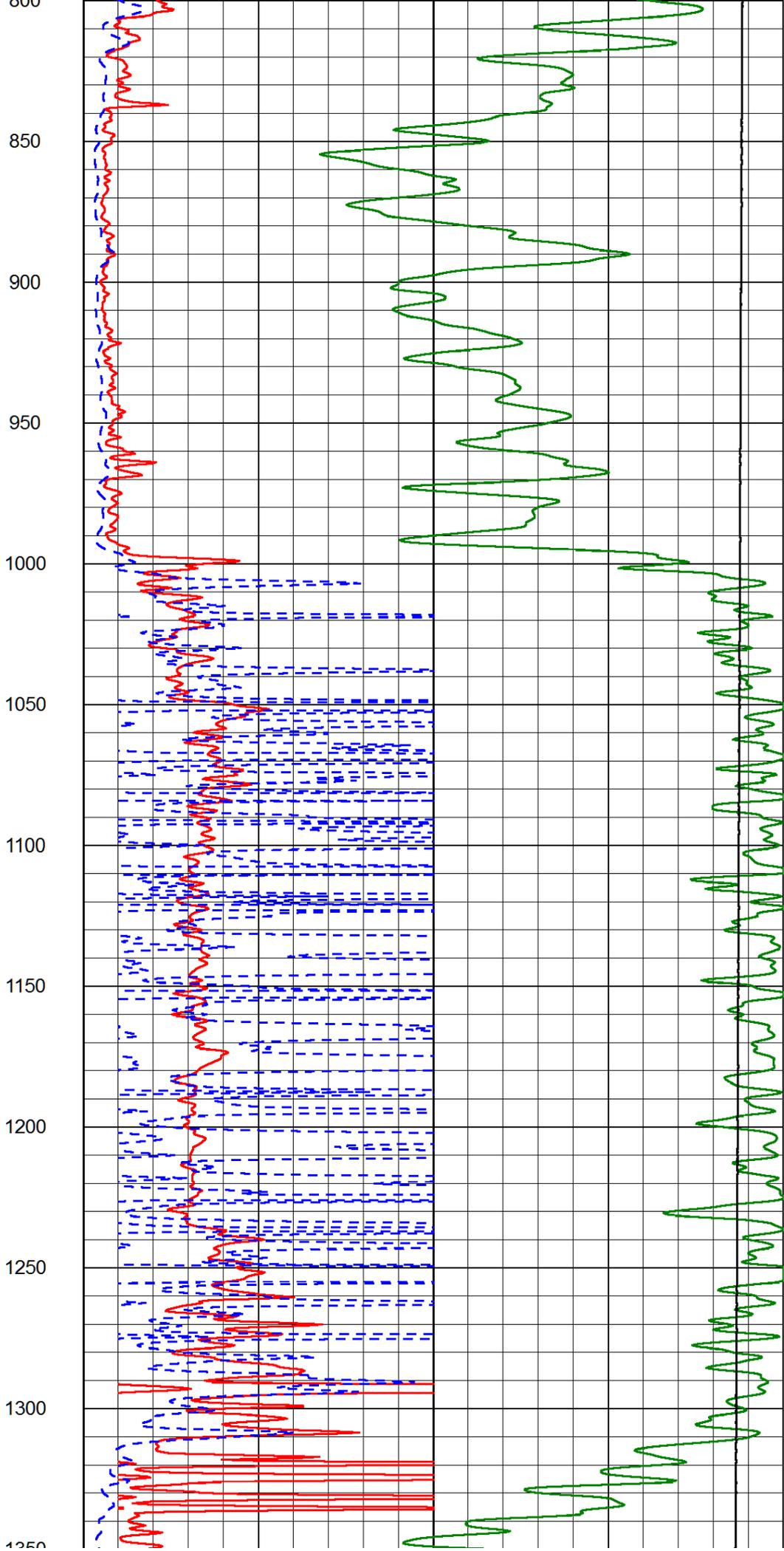
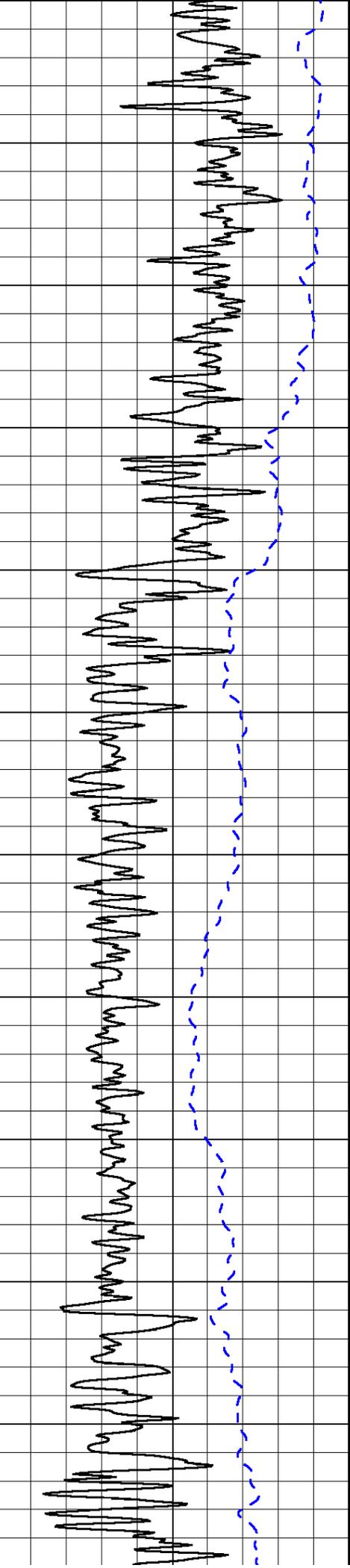
Ellinwood KS
South on Stafford Blk Top to 50 Rd, East to 150 Rd
1/2 North, W and N into (about 1 mile)

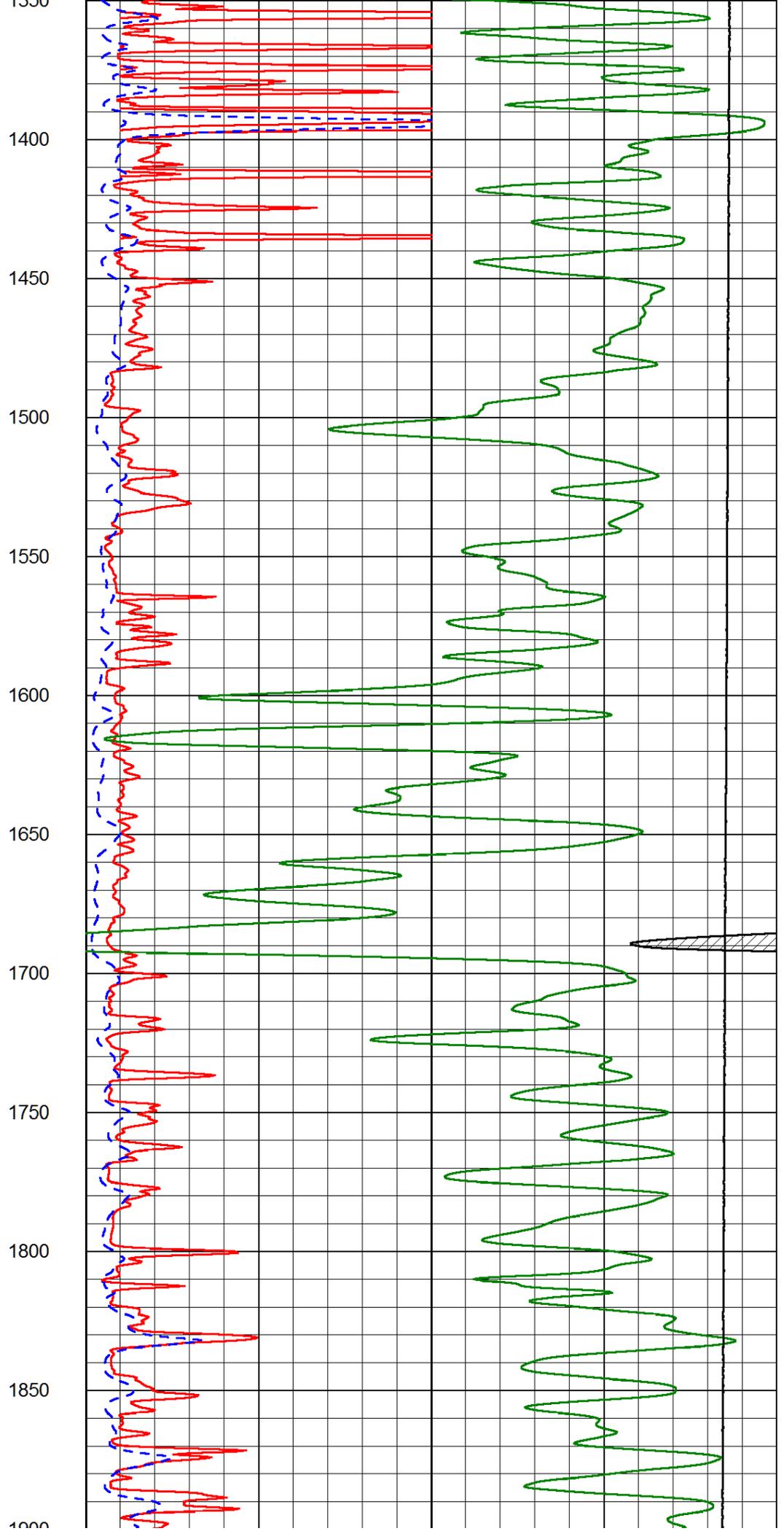
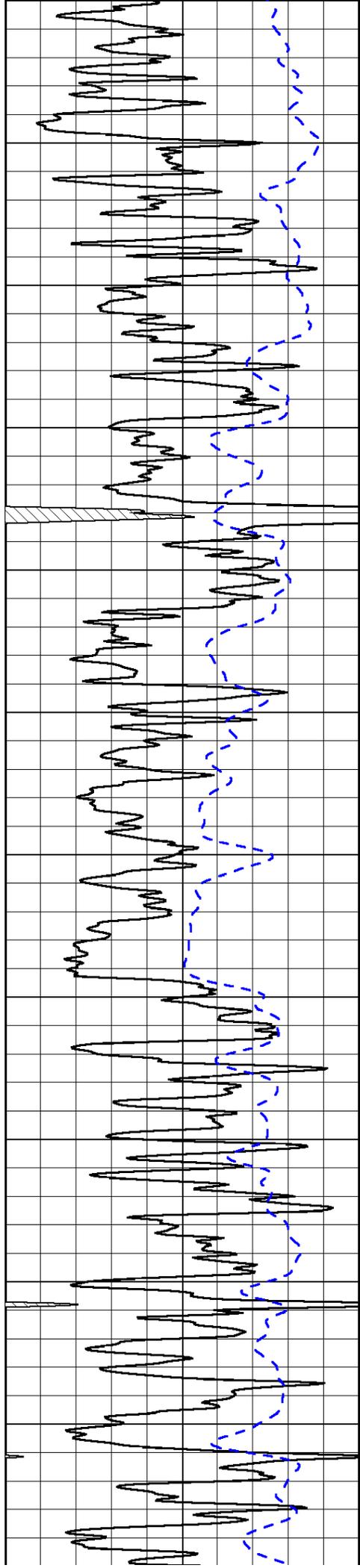
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 Dataset Creation: Mon Jul 01 14:27:51 2013
 Charted by: Depth in Feet scaled 1:600

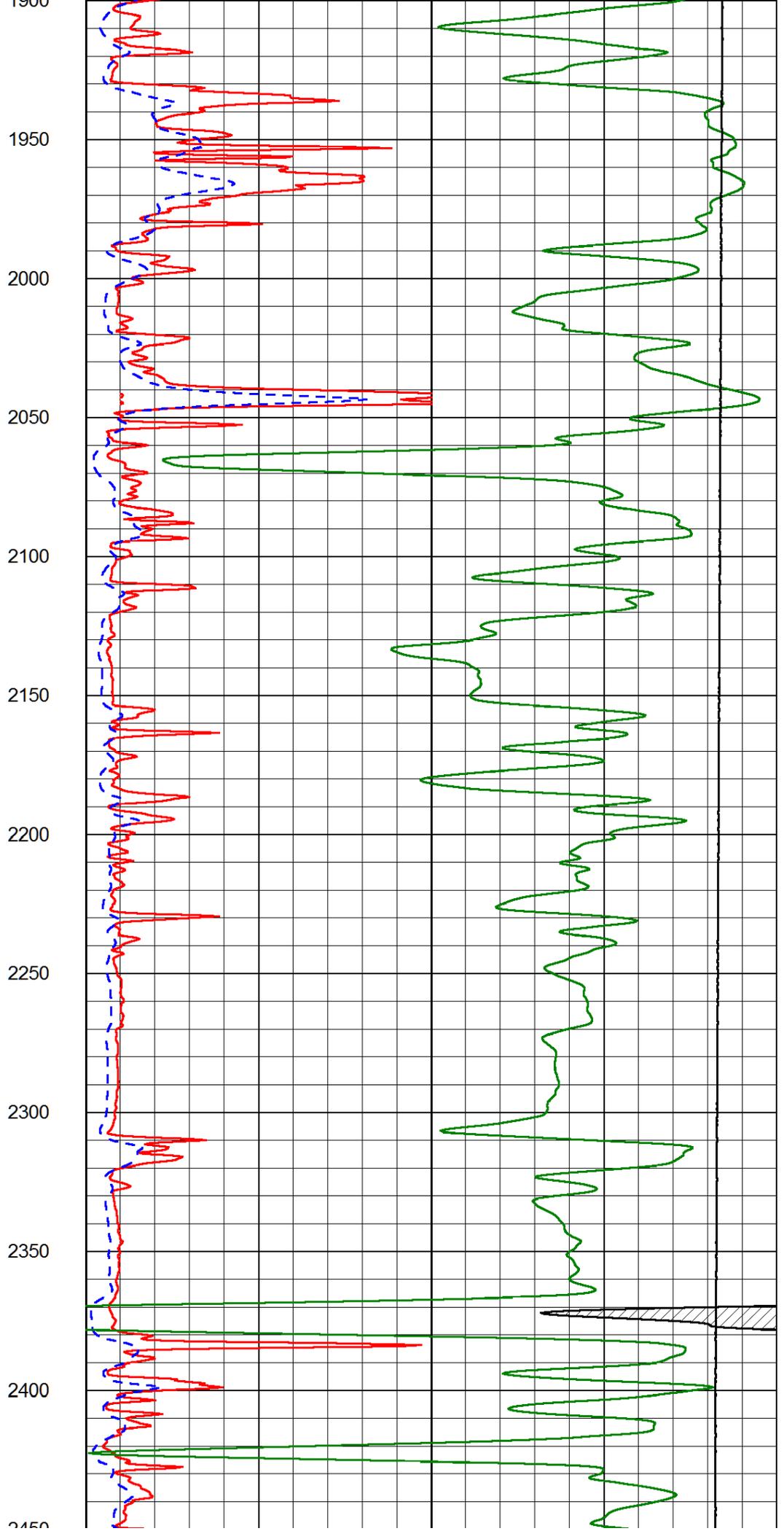
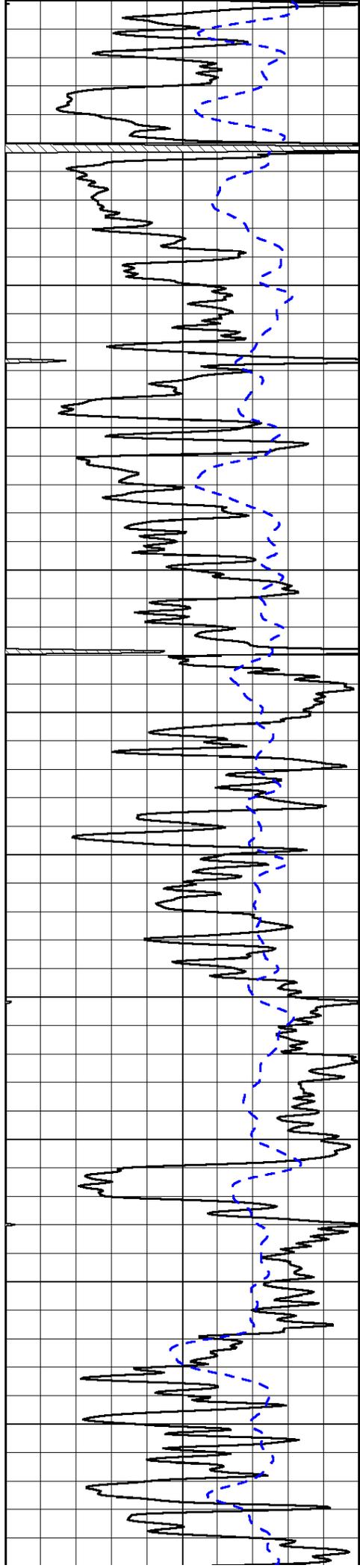
0	Gamma Ray (GAPI)	150
-200	SP (mV)	0

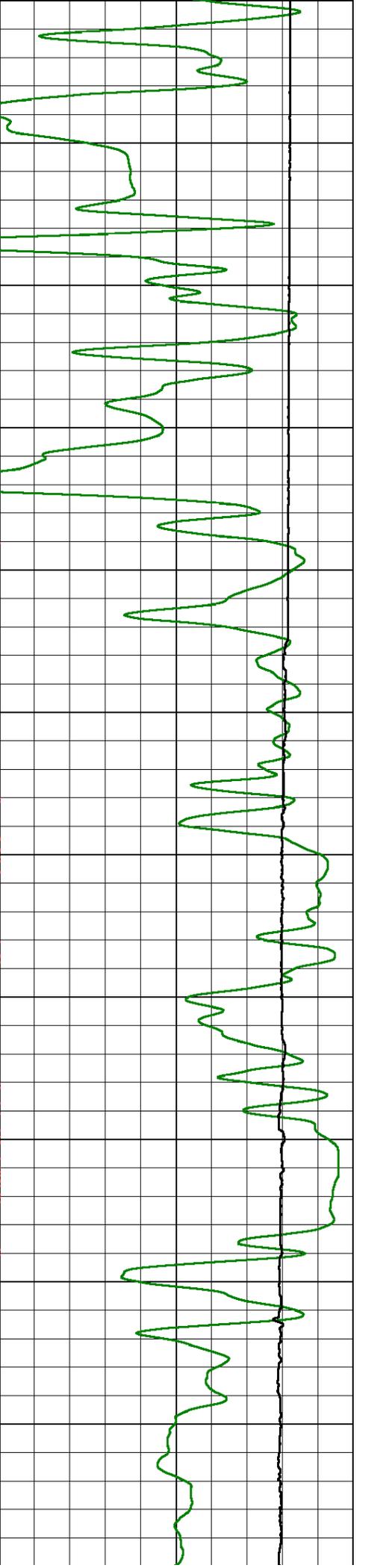
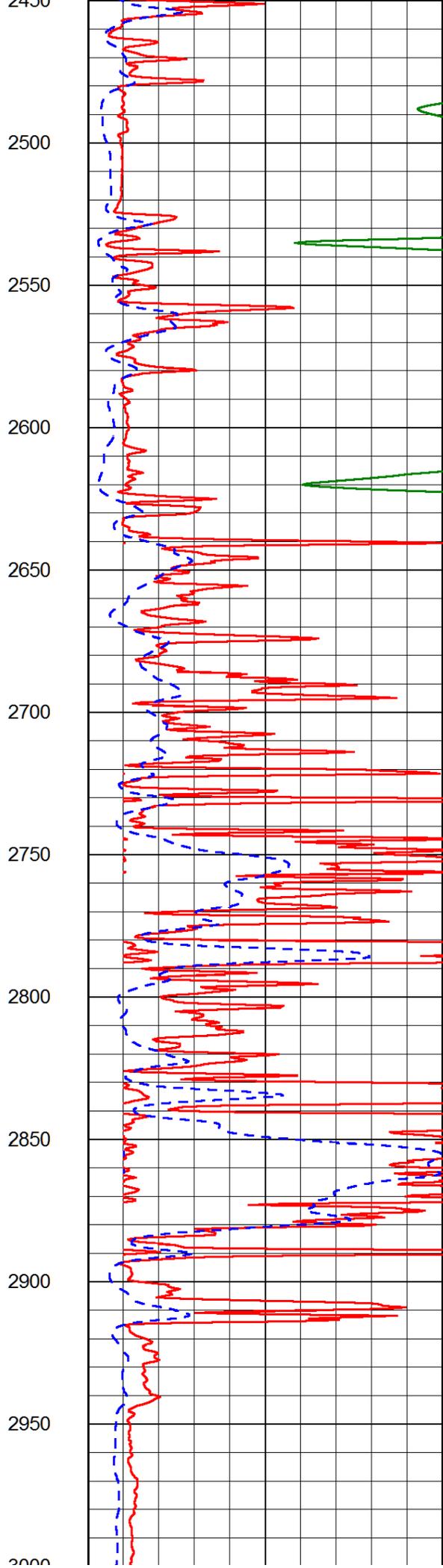
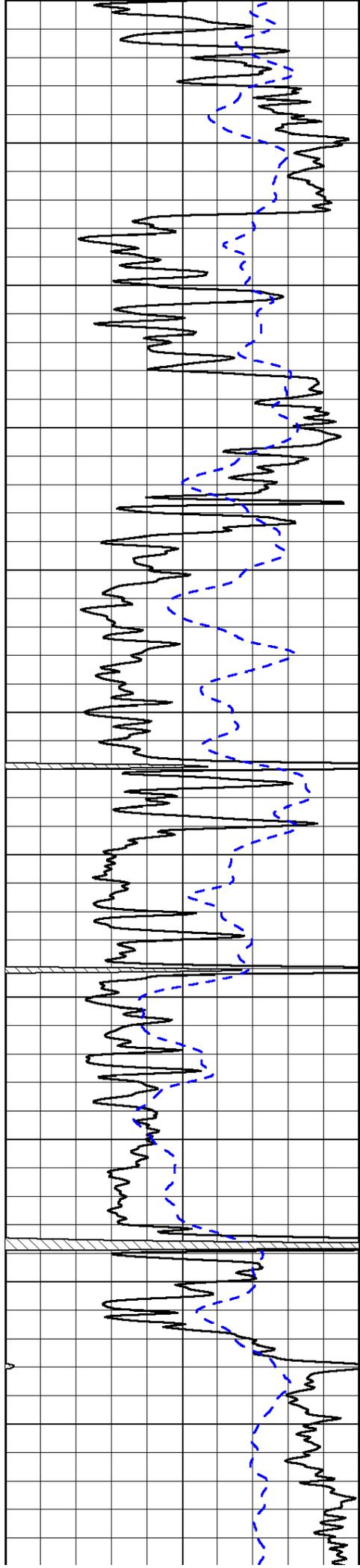
0	Shallow Resistivity (Ohm-m)	50
0	Deep Resistivity (Ohm-m)	50
1000	Conductivity (Ohm-m)	0
15000	Line Tension (lb)	0
50	Shallow Resistivity (Ohm-m)	500
50	Deep Resistivity (Ohm-m)	500

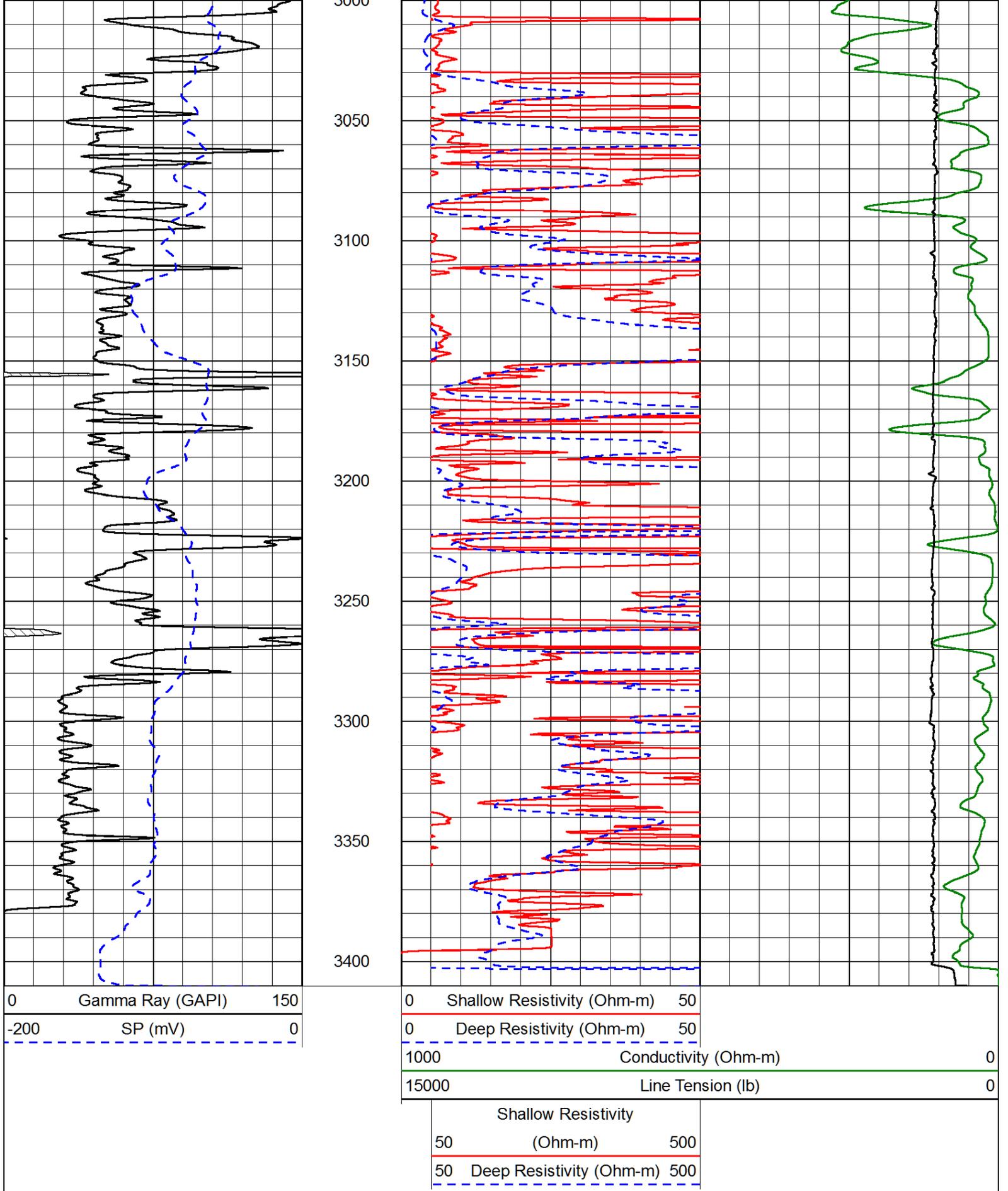










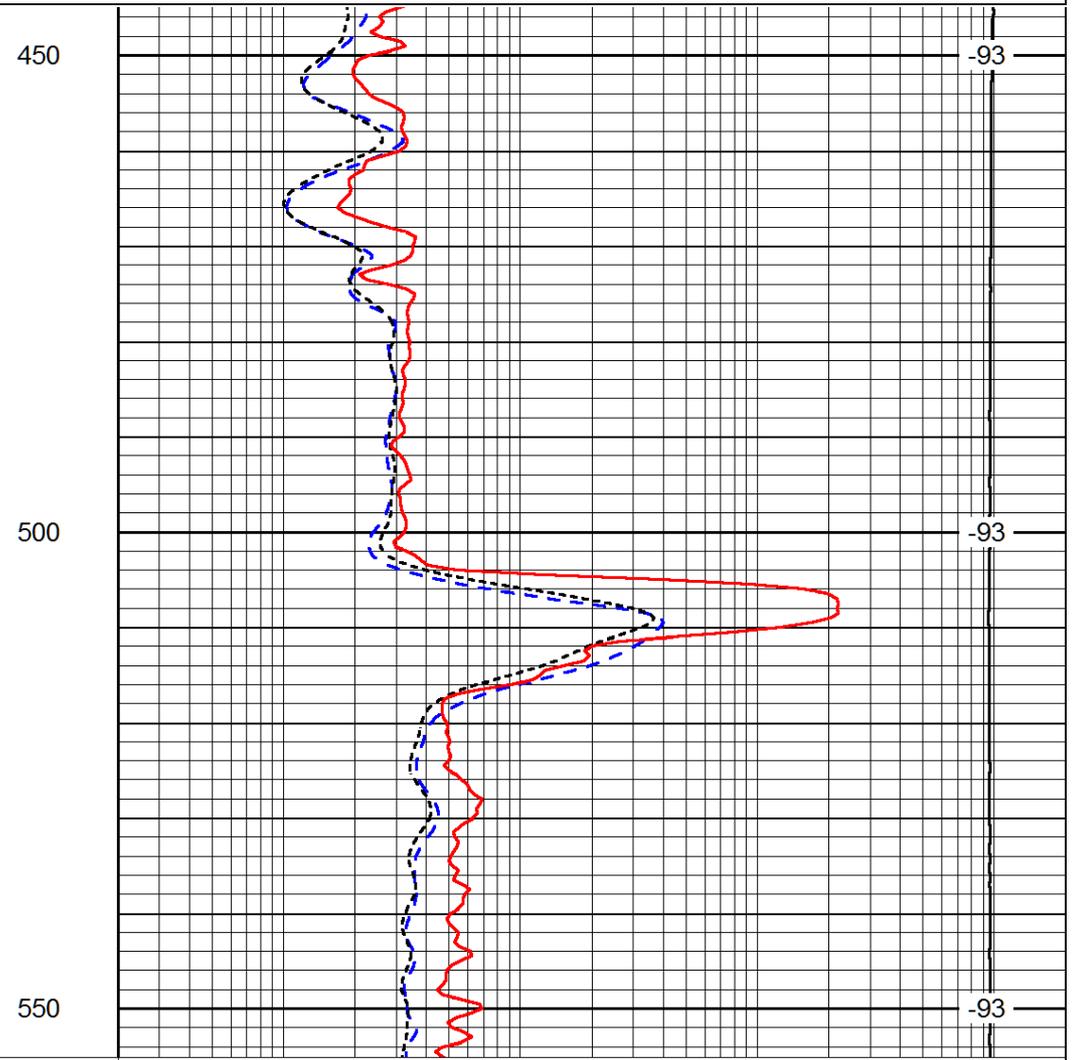
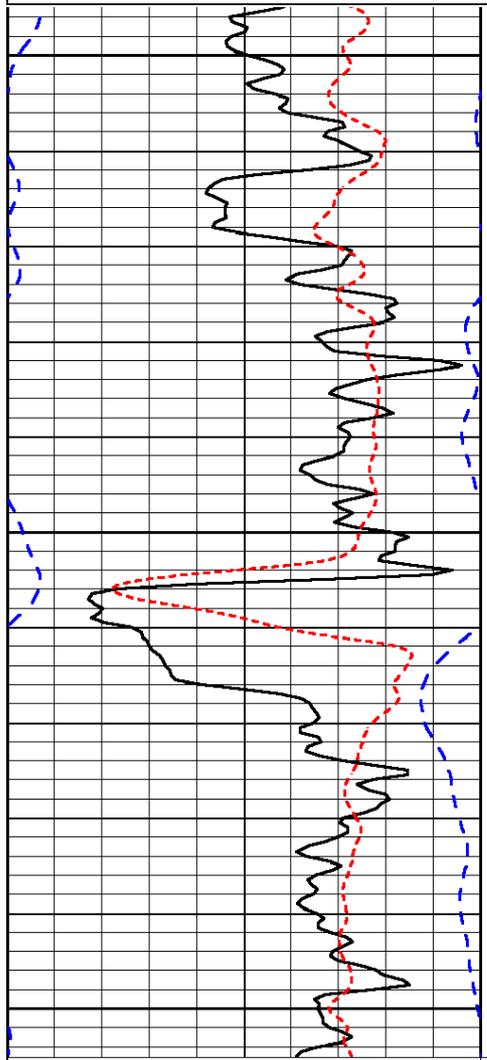


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 Dataset Pathname: DIL/ldstk
 Presentation Format: dil
 Dataset Creation: Mon Jul 01 14:27:51 2013
 Charted by: Depth in Feet scaled 1:240

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)



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

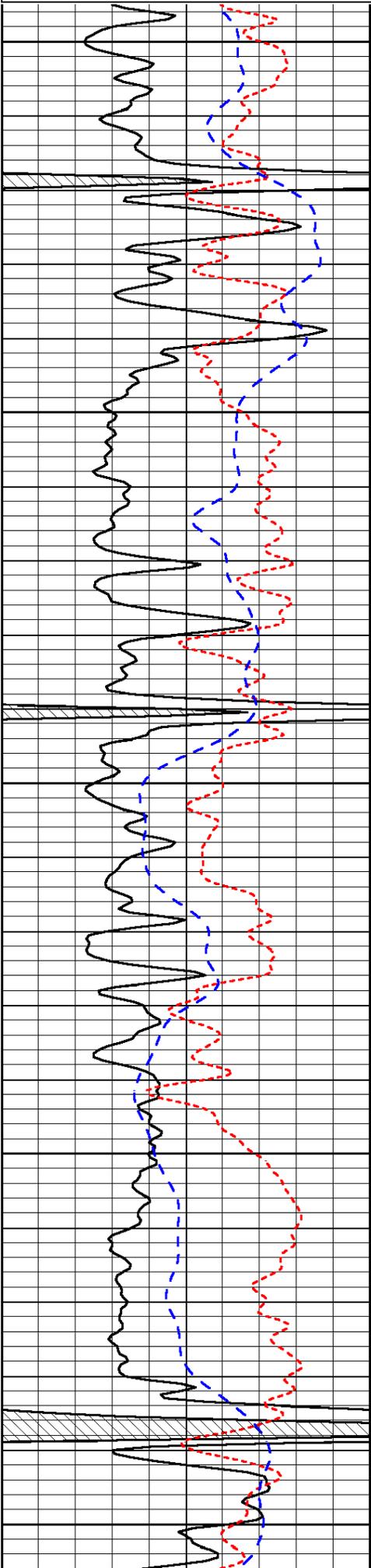
LSPD
(ft/min)

Database File: Id_drilling_lyle_1_14hd.db
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 Presentation Format: dil
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 Charted by: Depth in Feet scaled 1:240

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-200	SP (mV)	0

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

LSPD



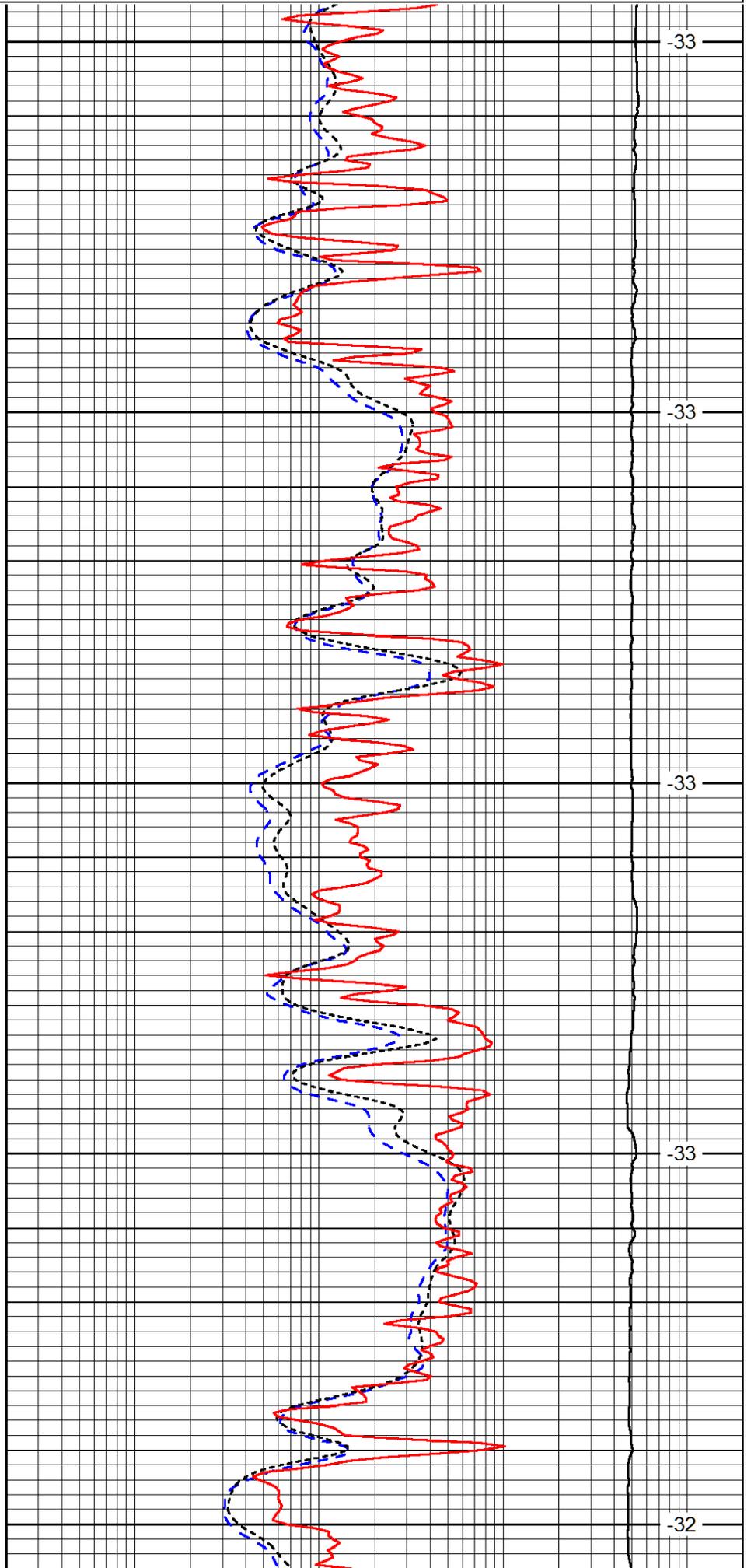
2700

2750

2800

2850

2900



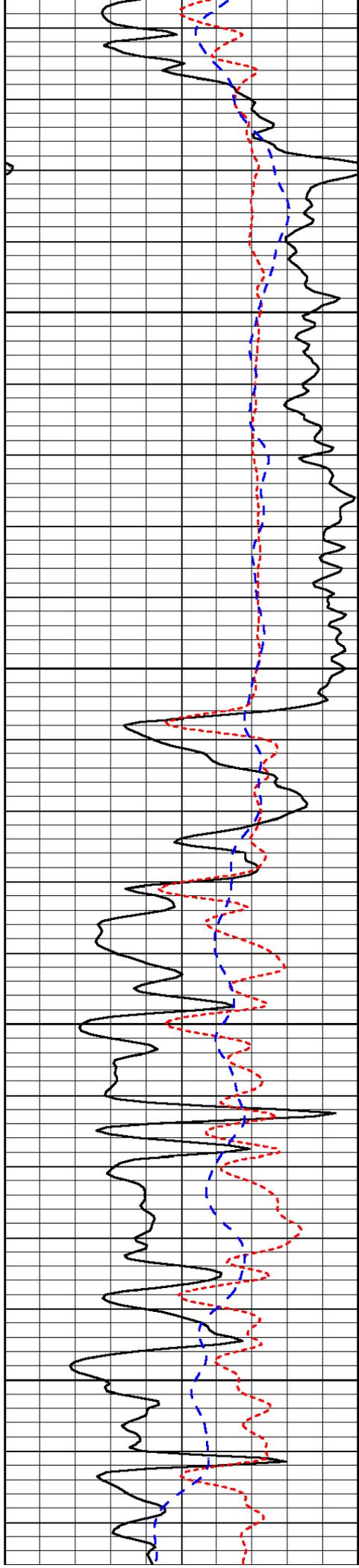
-33

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-33

-33

-32

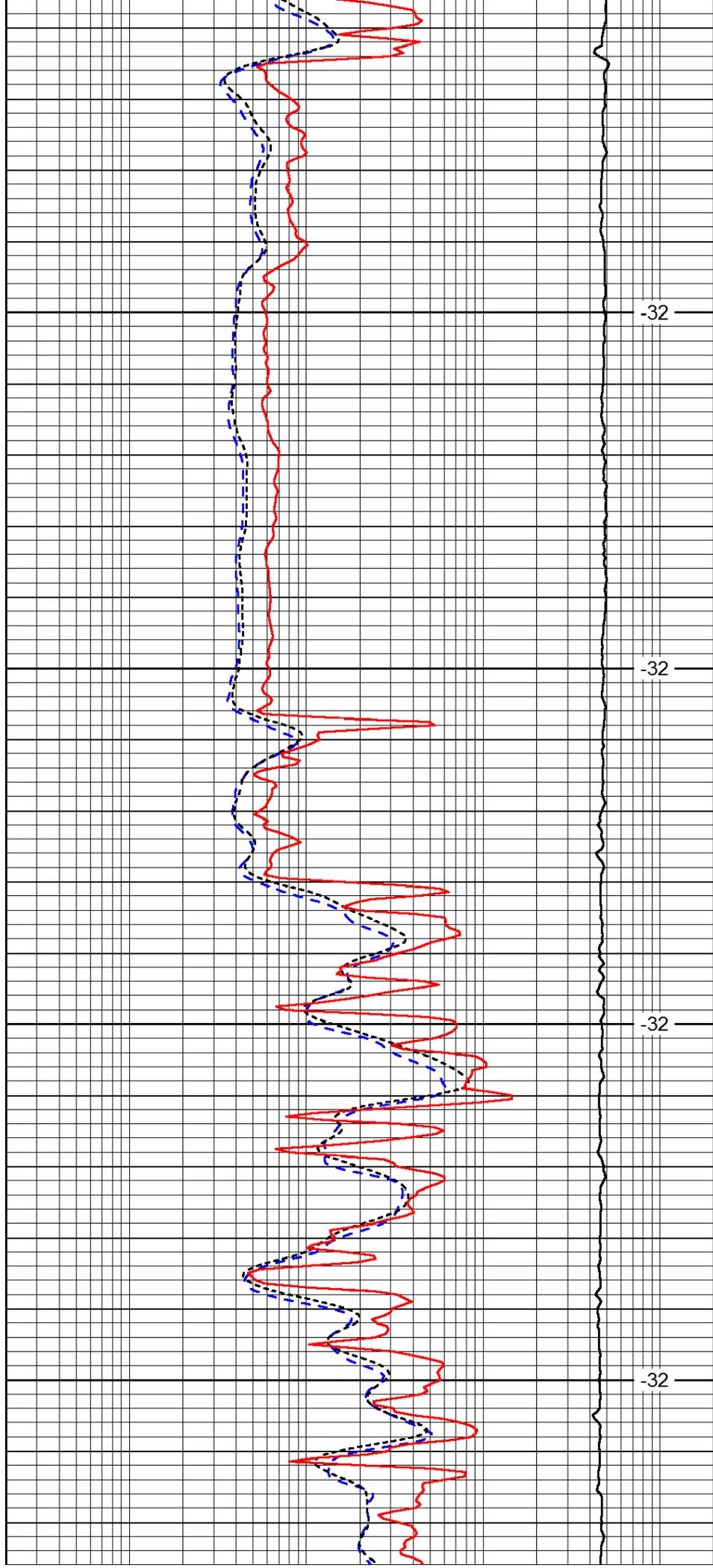


2950

3000

3050

3100

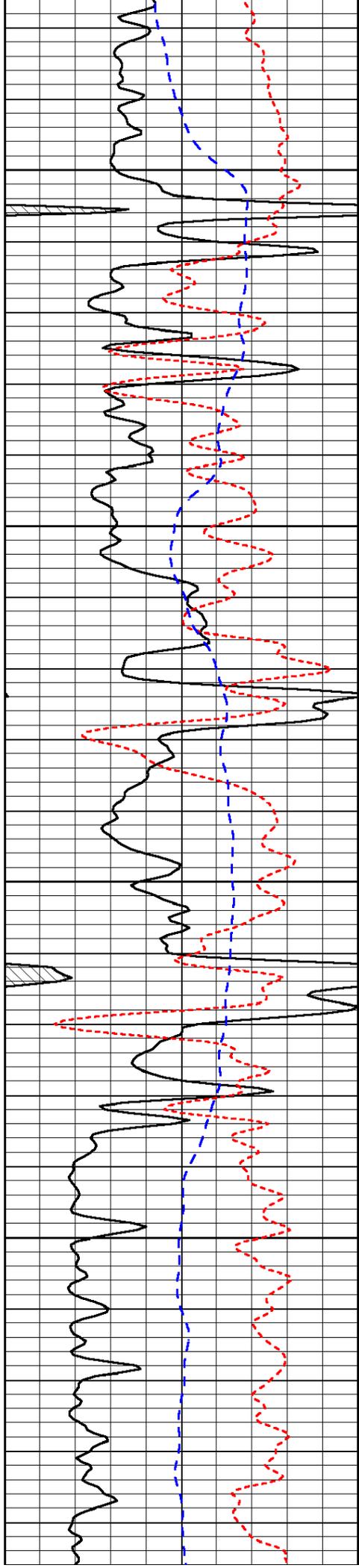


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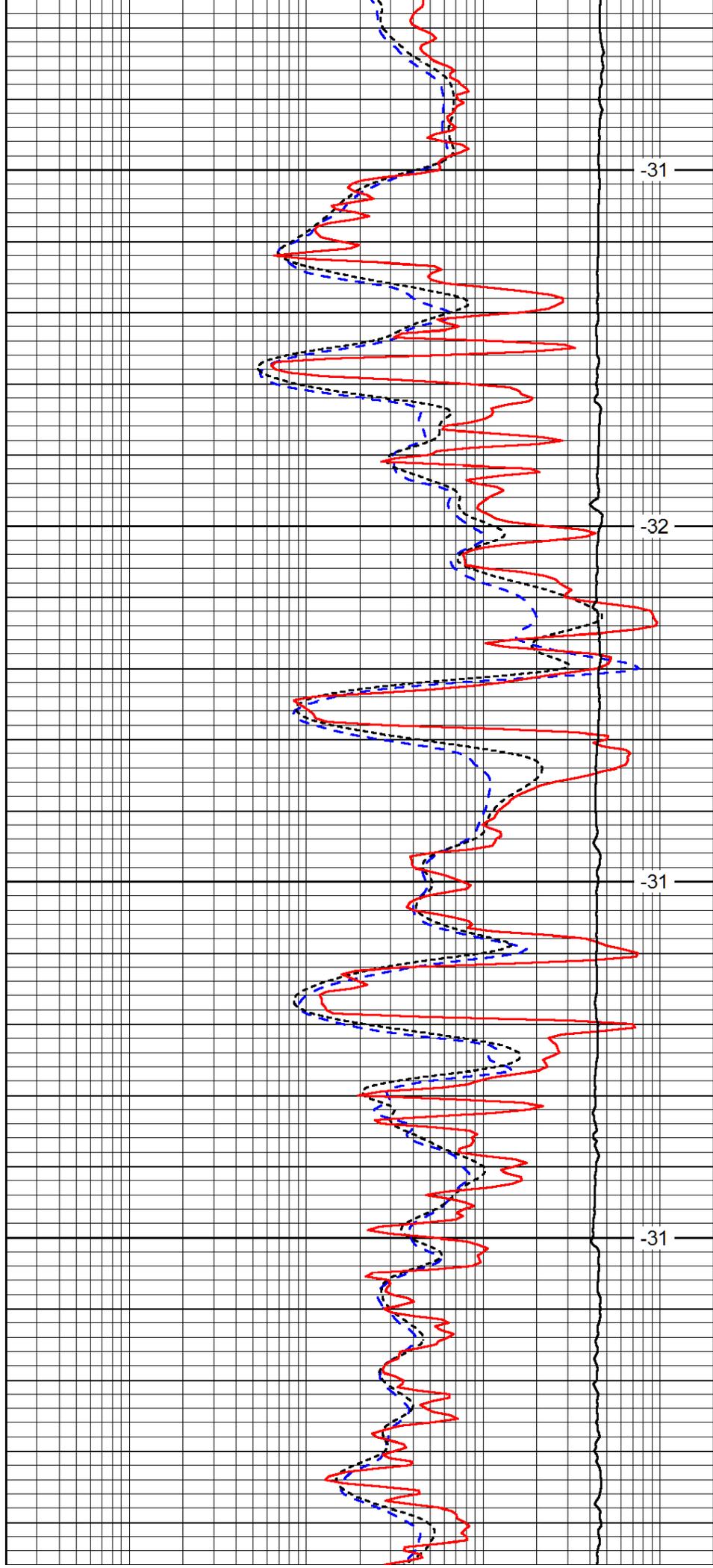


3150

3200

3250

3300

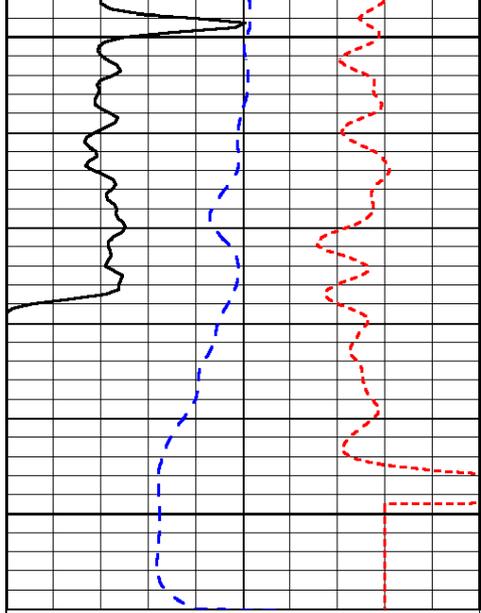


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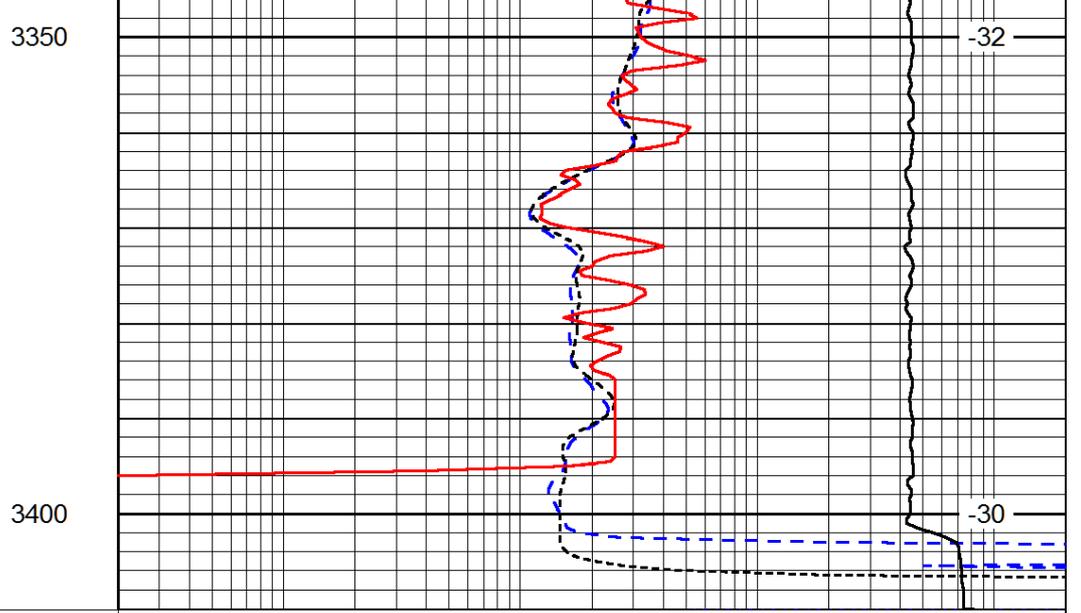
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