



Pioneer Energy Services

Dual Induction Log

API No.	15-167-23929-00-00		
Company	Prospect Oil & Gas Corp.		
Well	Big Canyons Ranch # 1		
Field	Machin		
County	Russell	State	Kansas
Location	1090' FNL & 505' FWL		
Sec: 4	Twp: 13 S	Rge: 14 W	Other Services CNL/CDL MEL

Permanent Datum	Ground Level	Elevation	1779
Log Measured From	Kelly Bushing	7	Ft. Above Perm. Datum
Drilling Measured From	Kelly Bushing		
Date	12-30-2013		
Run Number	One		
Depth Driller	3320		
Depth Logger	3319		
Bottom Logged Interval	3318		
Top Log Interval	200		
Casing Driller	8.625 @ 231		
Casing Logger	220		
Bit Size	7.875		
Type Fluid in Hole	Chemical		
Salinity, ppm CL	2000		
Density / Viscosity	9.0	56	
pH / Fluid Loss	10.5	6.8	
Source of Sample	Flowline		
Rm @ Meas. Temp	0.54	@	38
Rmf @ Meas. Temp	0.40	@	38
Rmc @ Meas. Temp	0.72	@	38
Source of Rmf / Rmc	Charts		
Rm @ BHT	0.18	@	111
Operating Rig Time	3 1/2 Hours		
Max Rec. Temp. F	111		
Equipment Number	91		
Location	Hays		
Recorded By	Y. Ruiz		
Witnessed By	Brad Hutchison		

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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.

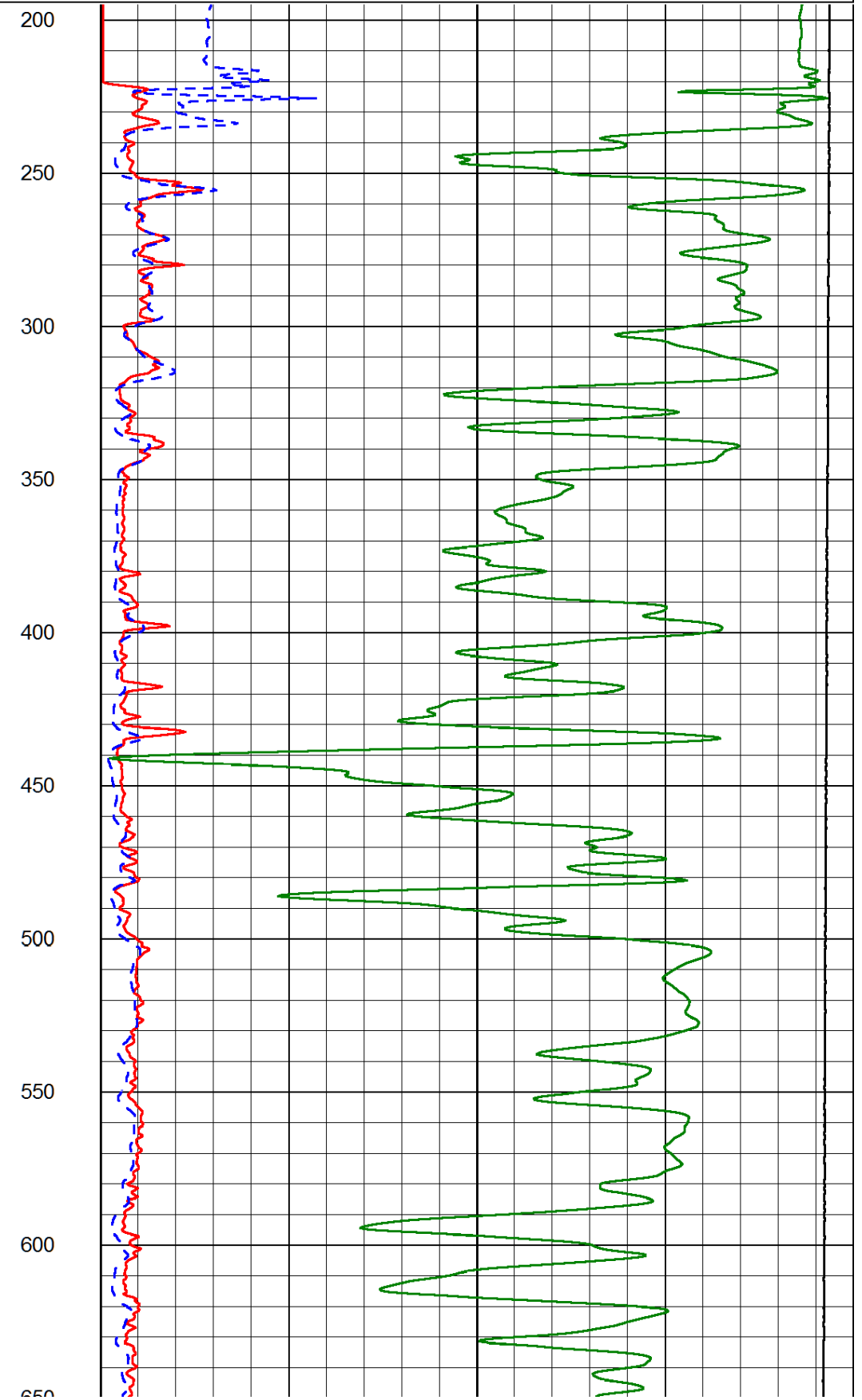
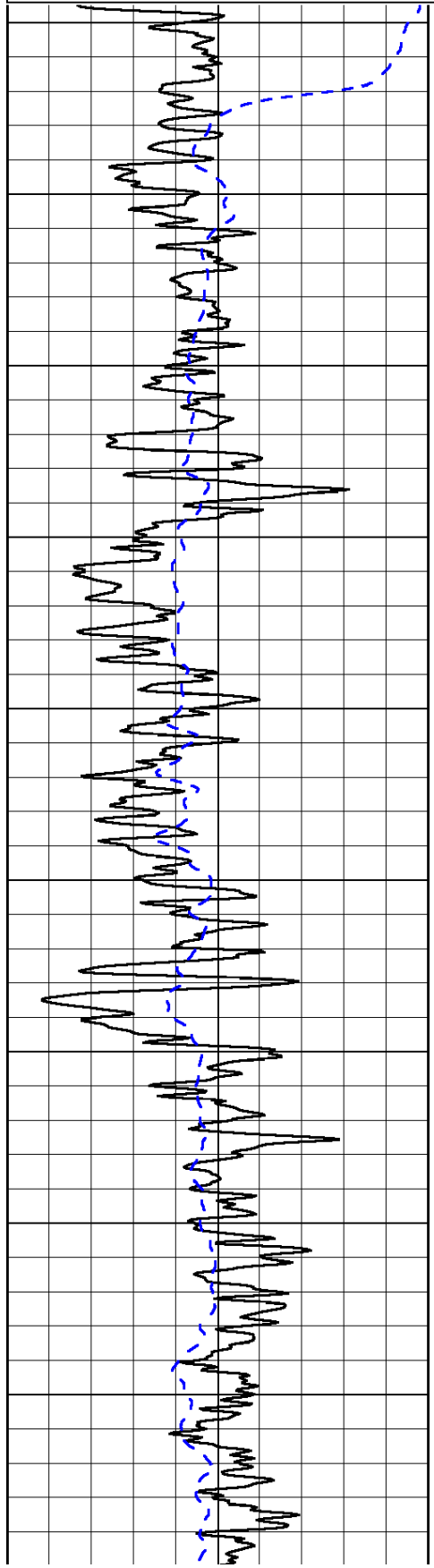
Comments

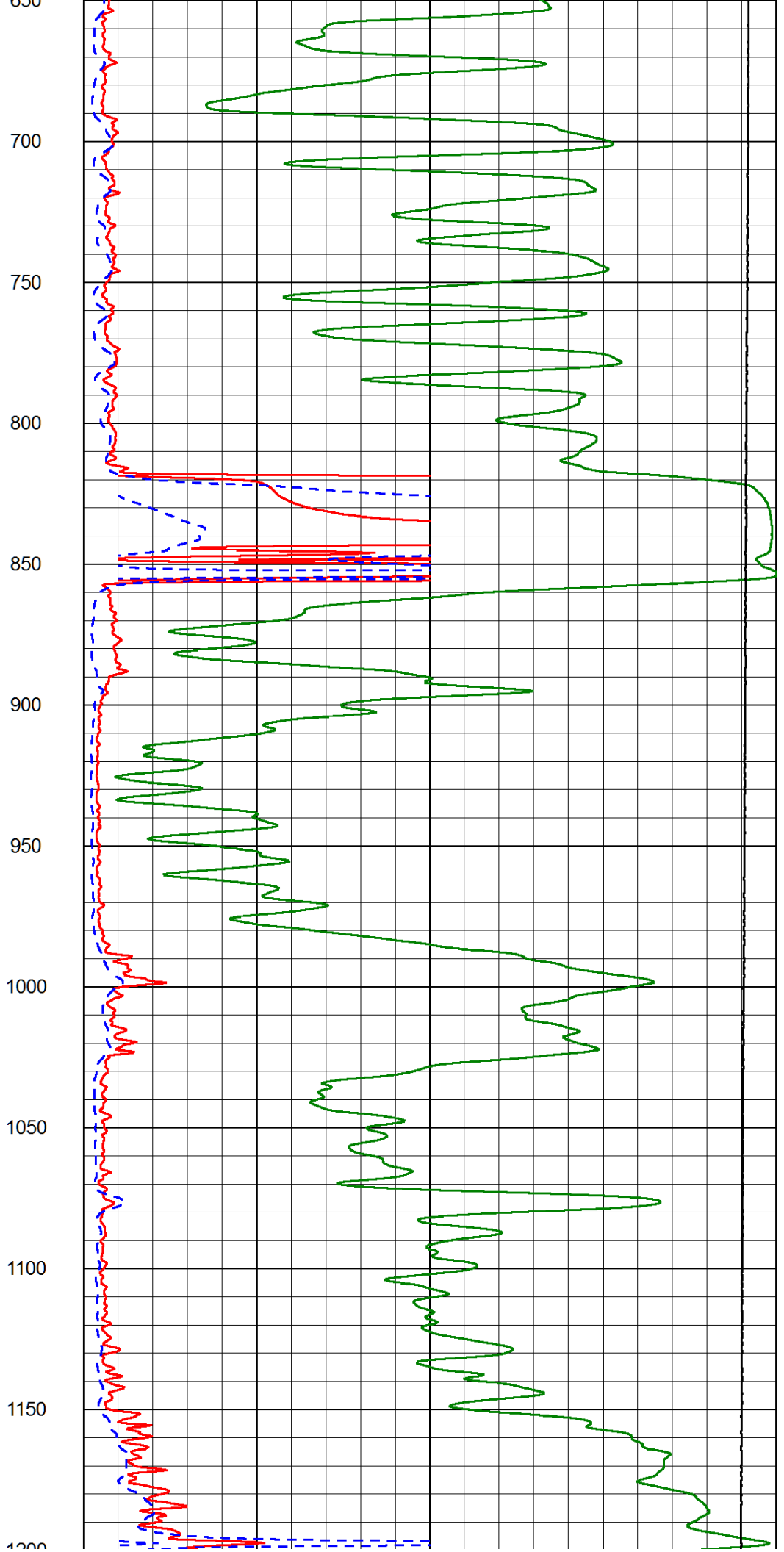
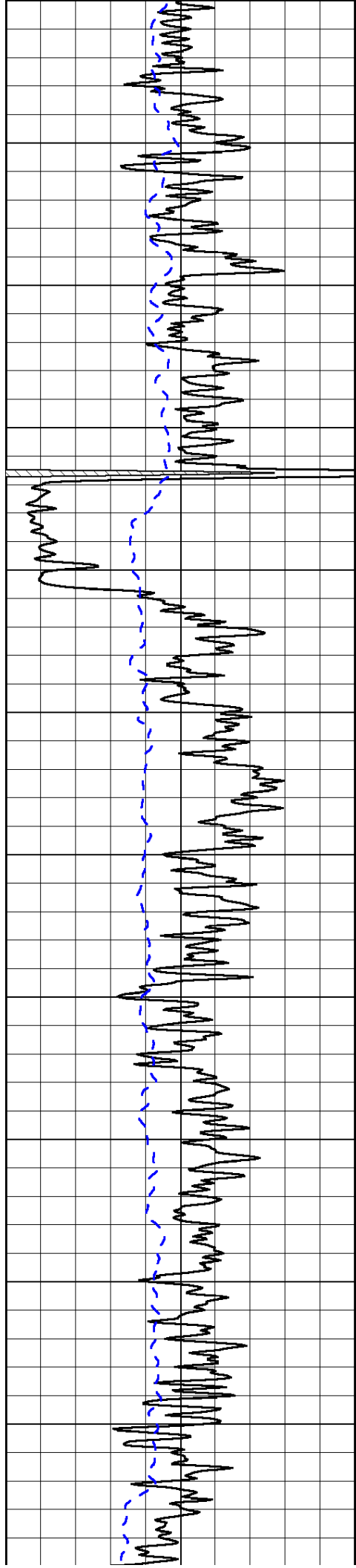
Thank you for using Log-Tech, Inc.
 (785) 625-3858
 Russell,
 North to Shoreline Rd, 1 1/2 West to 183 Rd,
 1 North, 1/2 west, 1 1/2 North,
 East into

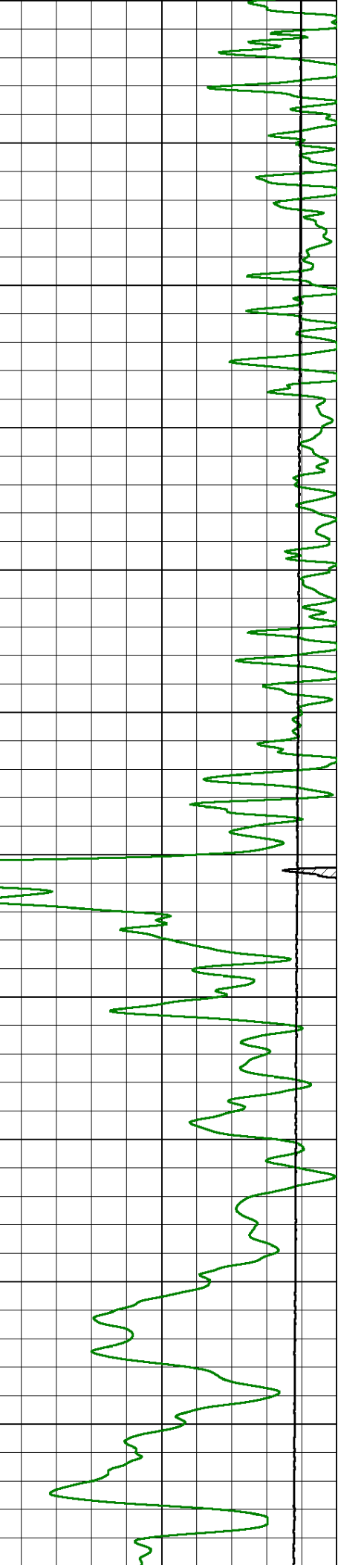
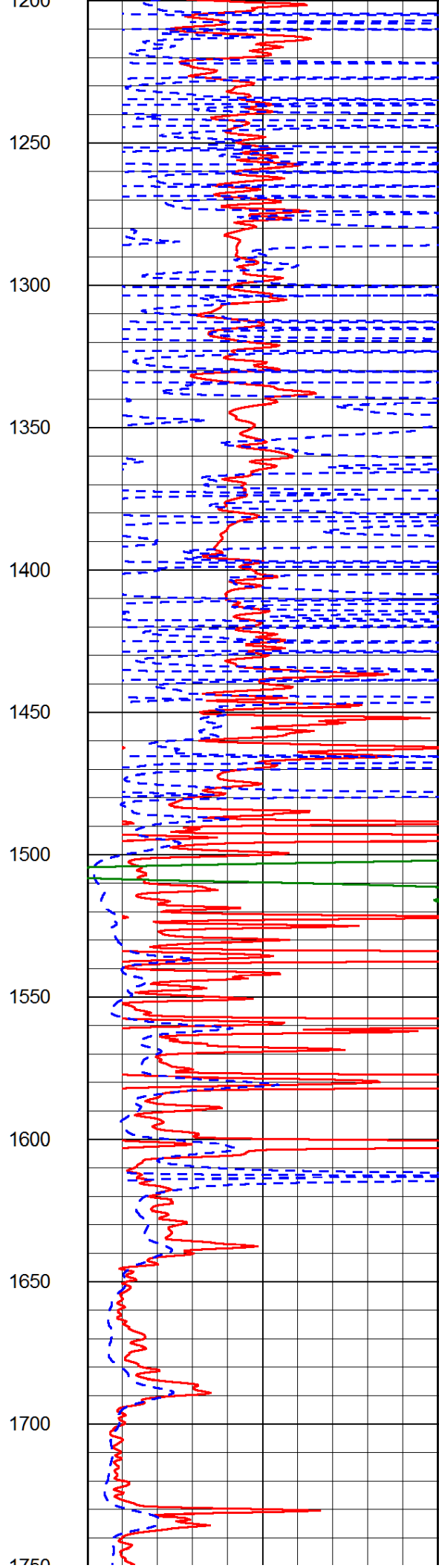
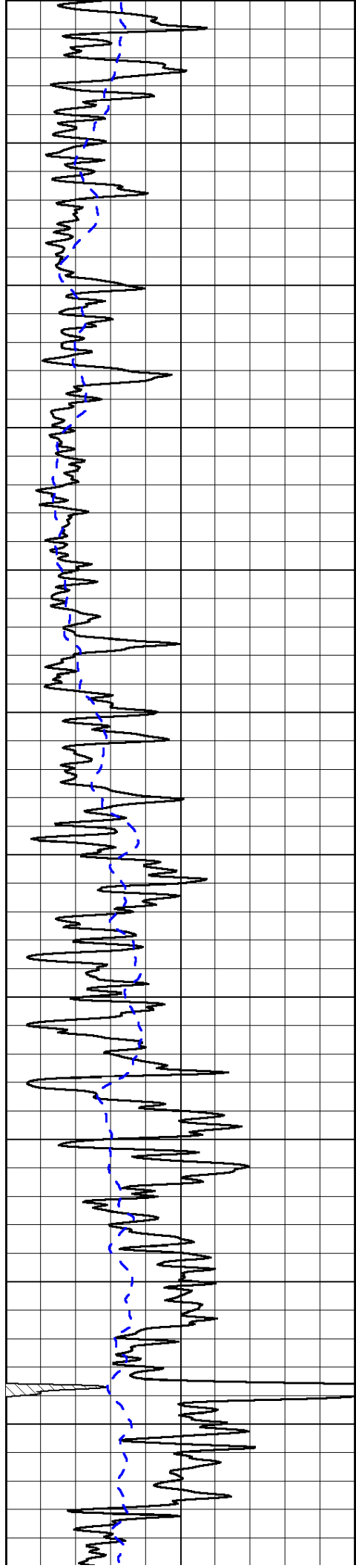
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 Charted by: Depth in Feet scaled 1:600

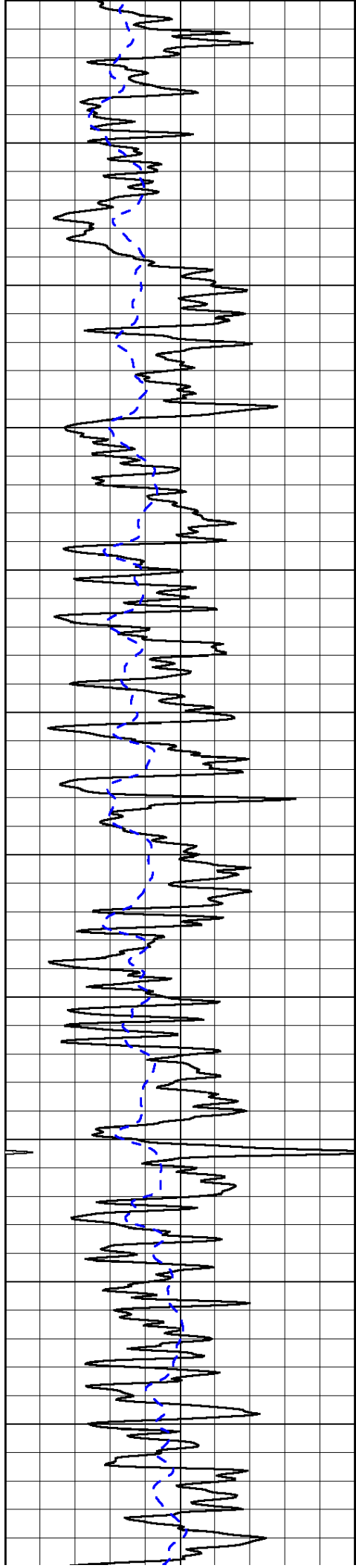
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-200	SP (mV)	0

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

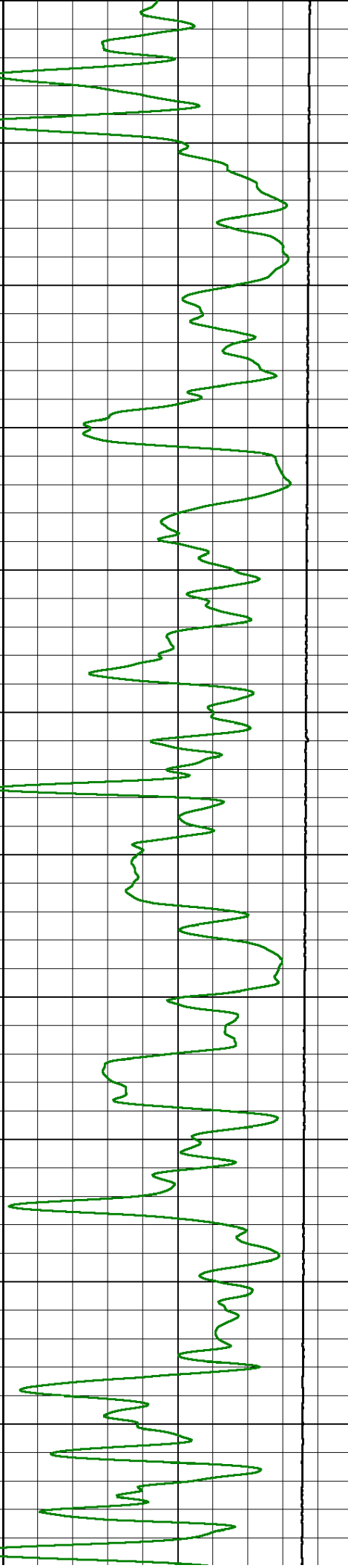
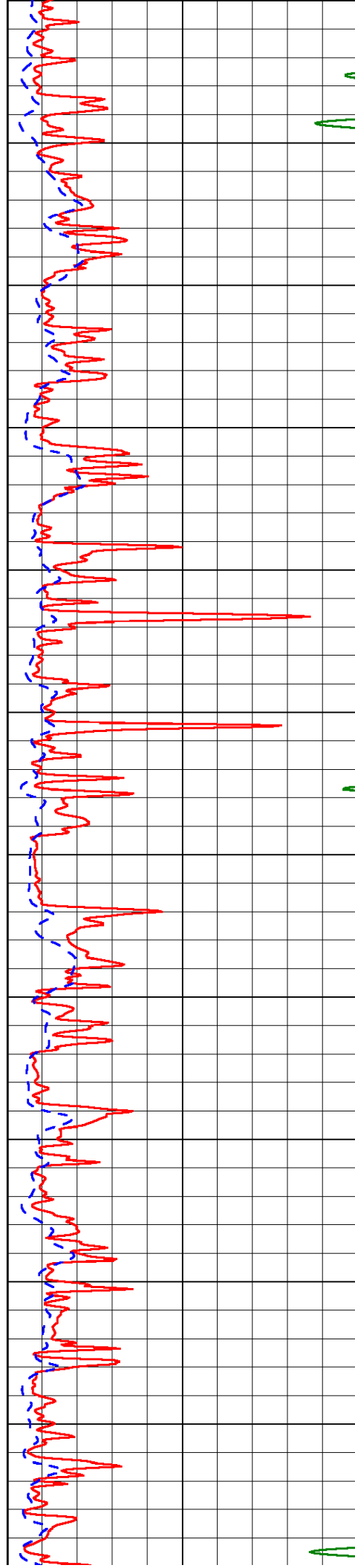


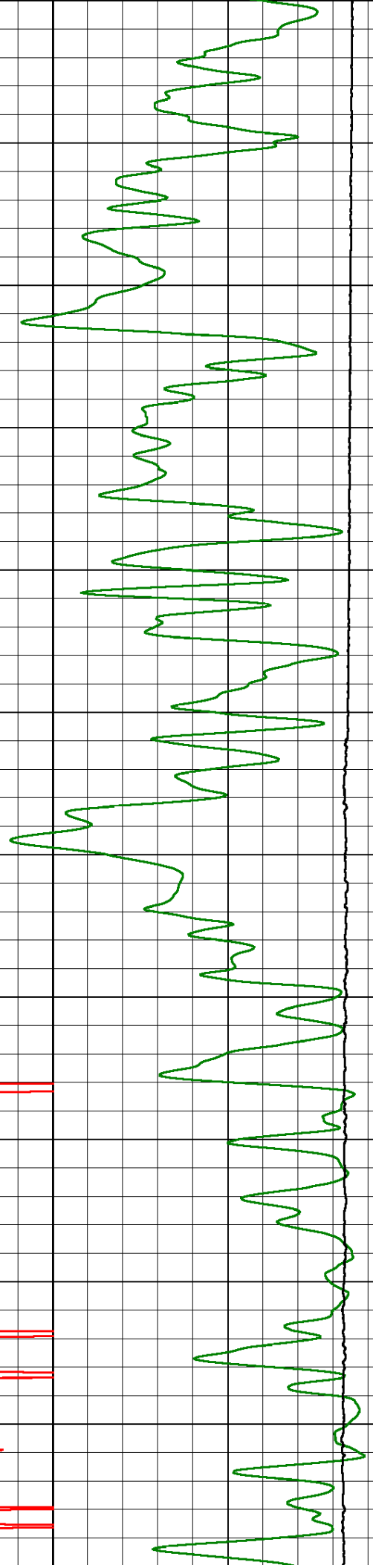
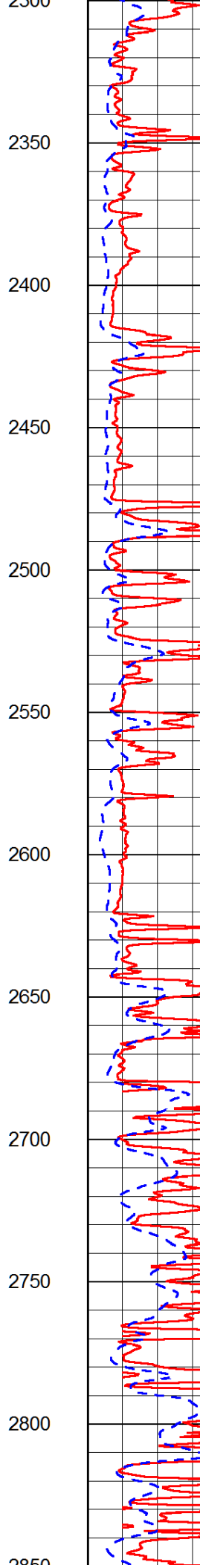
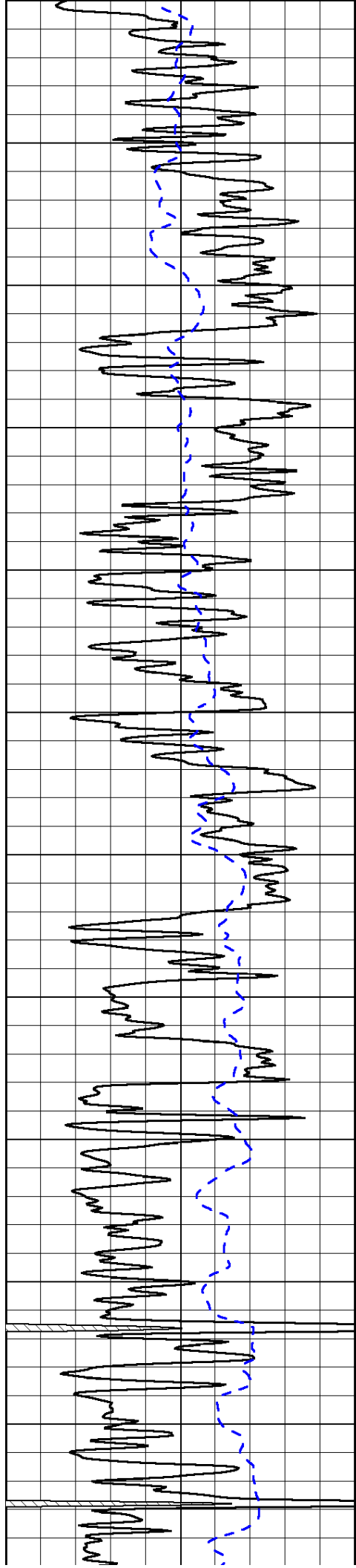


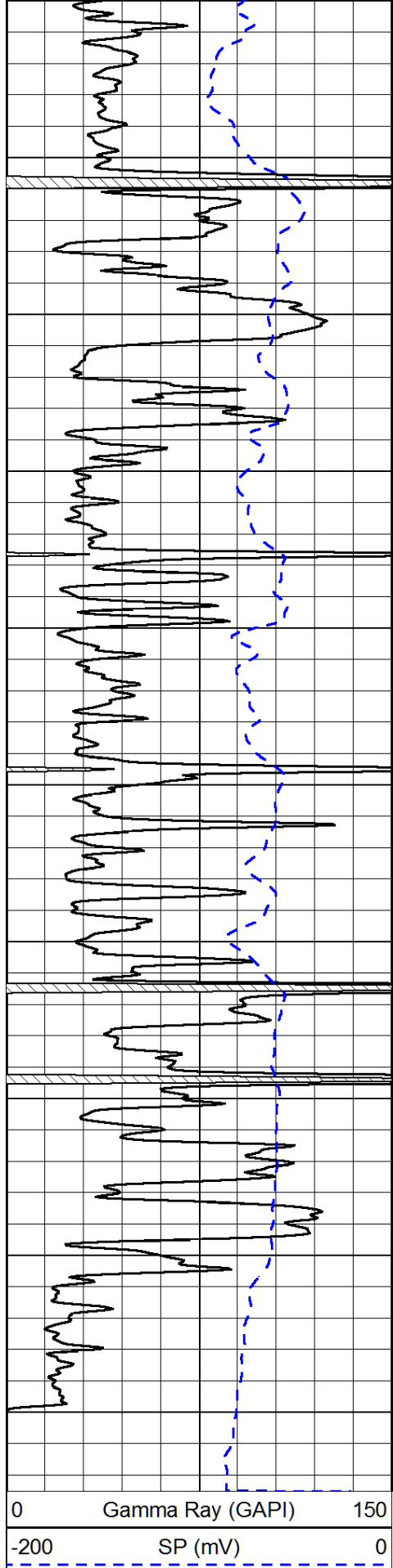




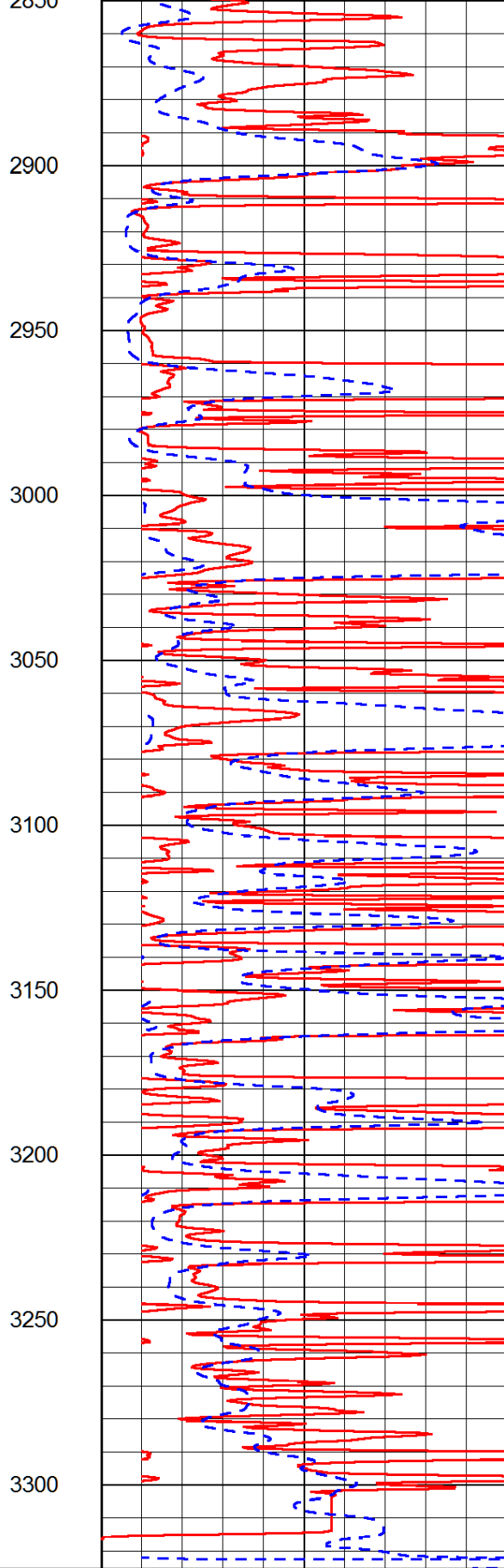
1750
1800
1850
1900
1950
2000
2050
2100
2150
2200
2250
2300



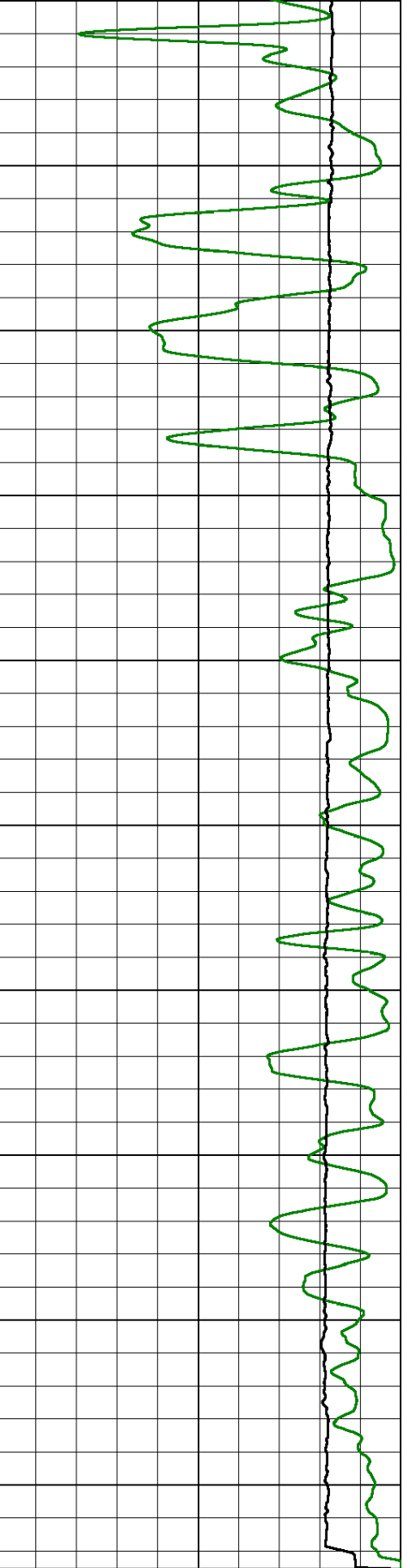




0 Gamma Ray (GAPI) 150
 -200 SP (mV) 0



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



1000 Conductivity (Ohm-m) 0
 15000 Line Tension (lb) 0

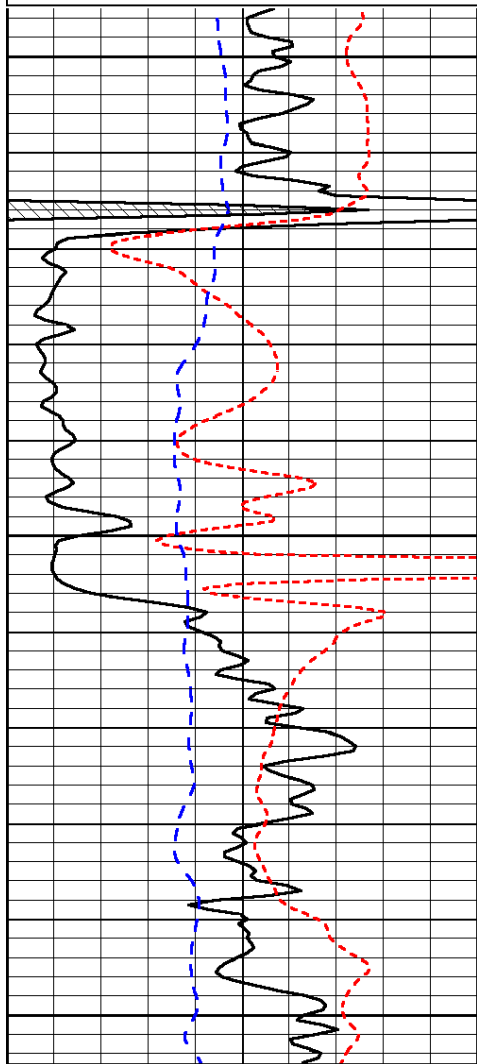
Shallow Resistivity
 (Ohm-m) 50 500

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 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

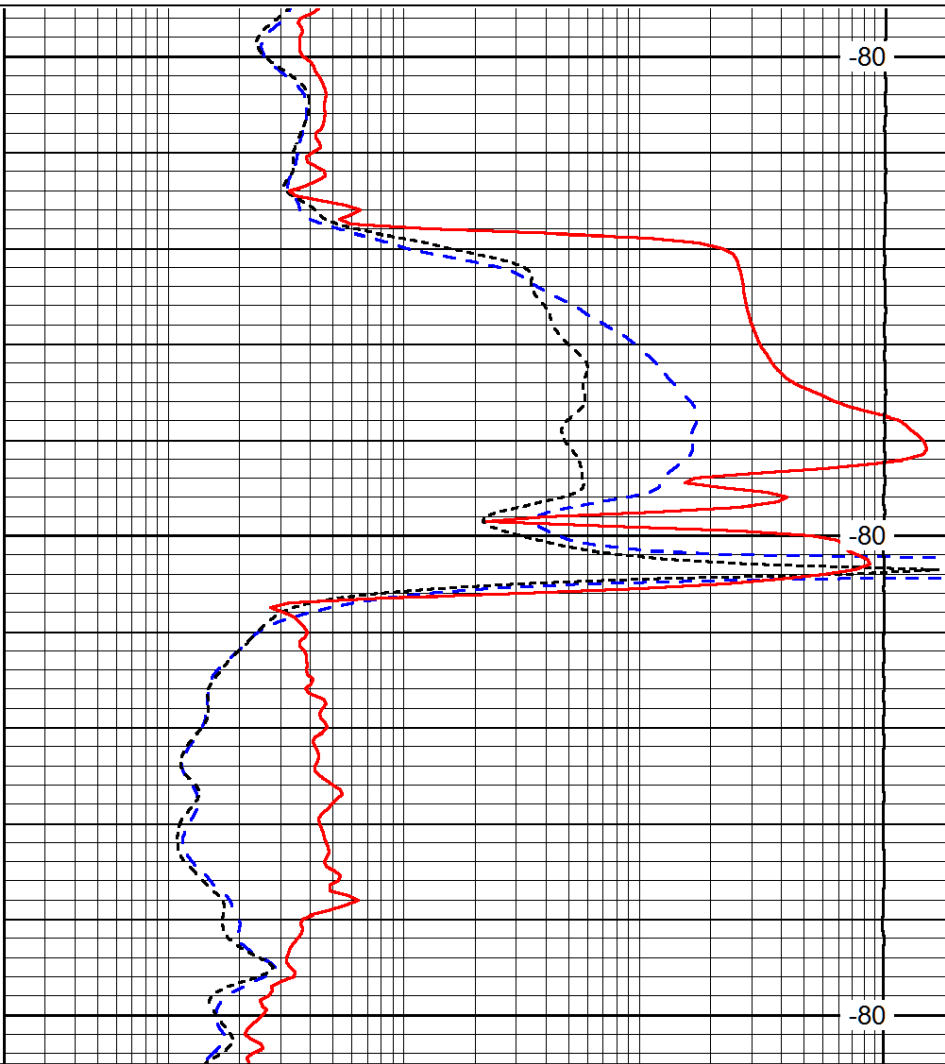
LSPD
(ft/min)



800

850

900



-80

-80

-80

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

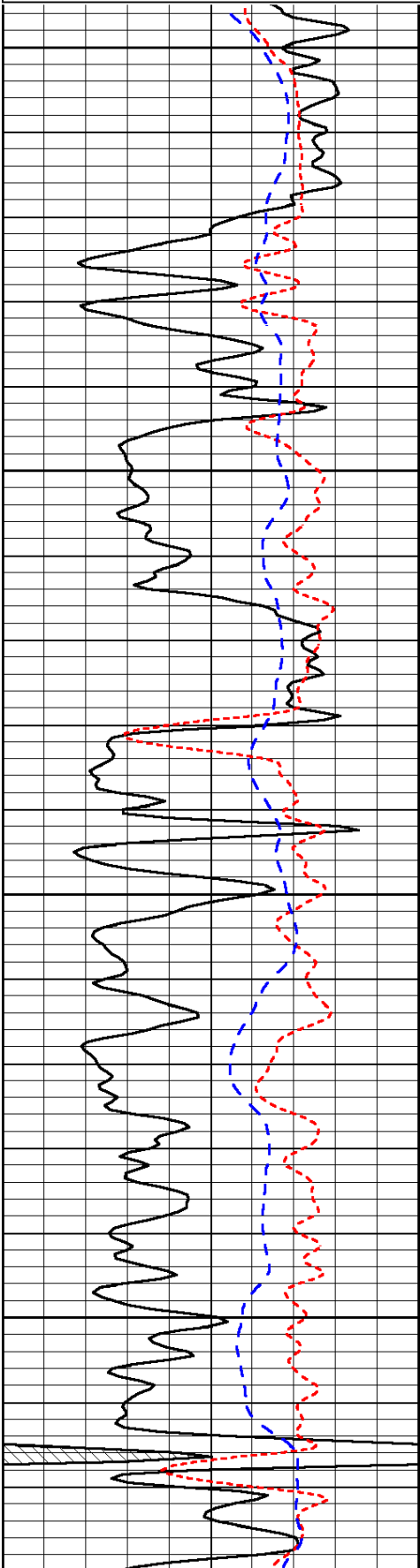
LSPD
(ft/min)

Database File: prospect_123013hd.db
 Dataset Pathname: DIL/@00000e60
 Presentation Format: dil
 Dataset Creation: Mon Dec 30 13:25:32 2013

0	Gamma Ray (GAPI)	150
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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
(ft/min)

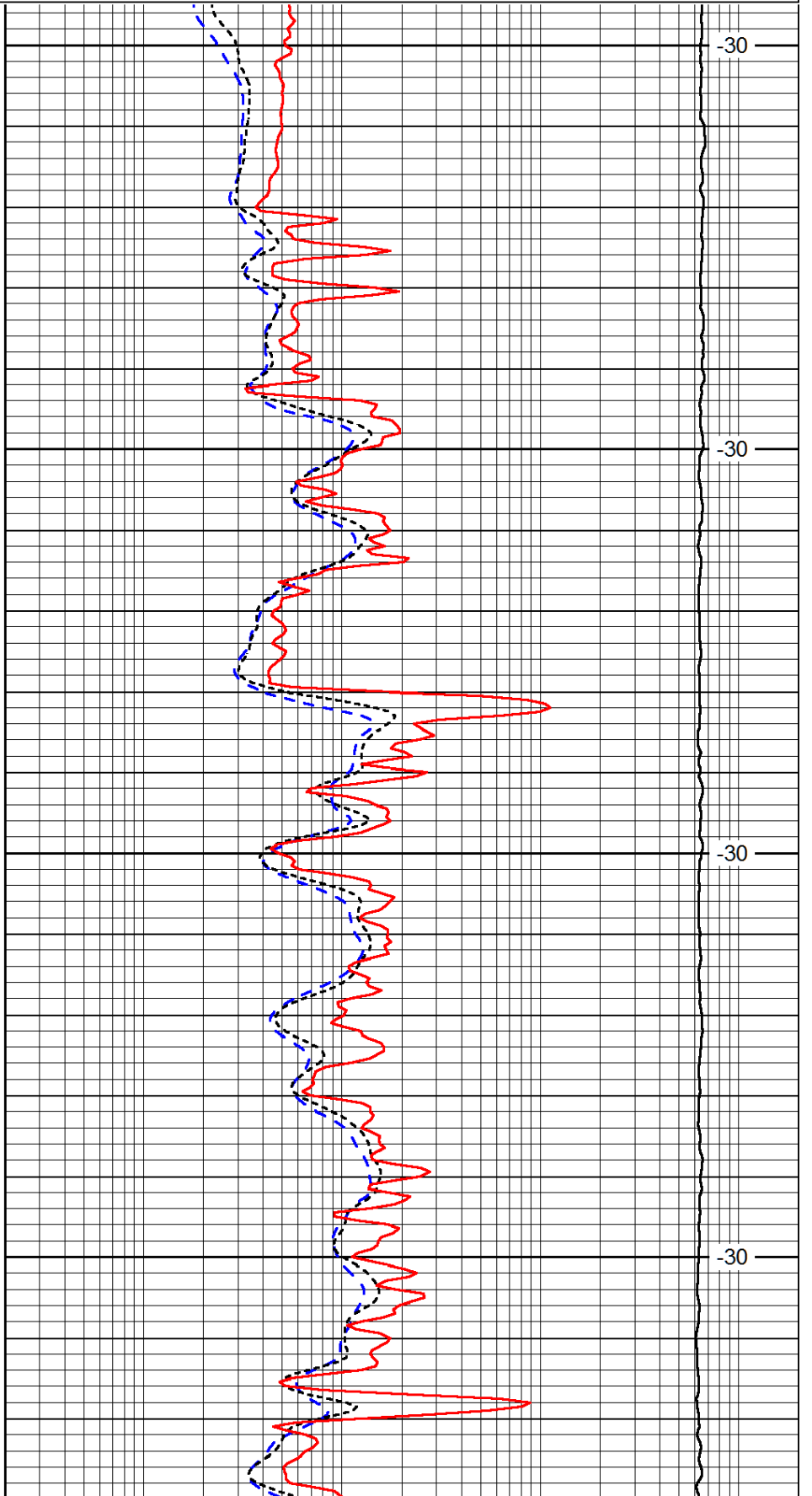


2600

2650

2700

2750

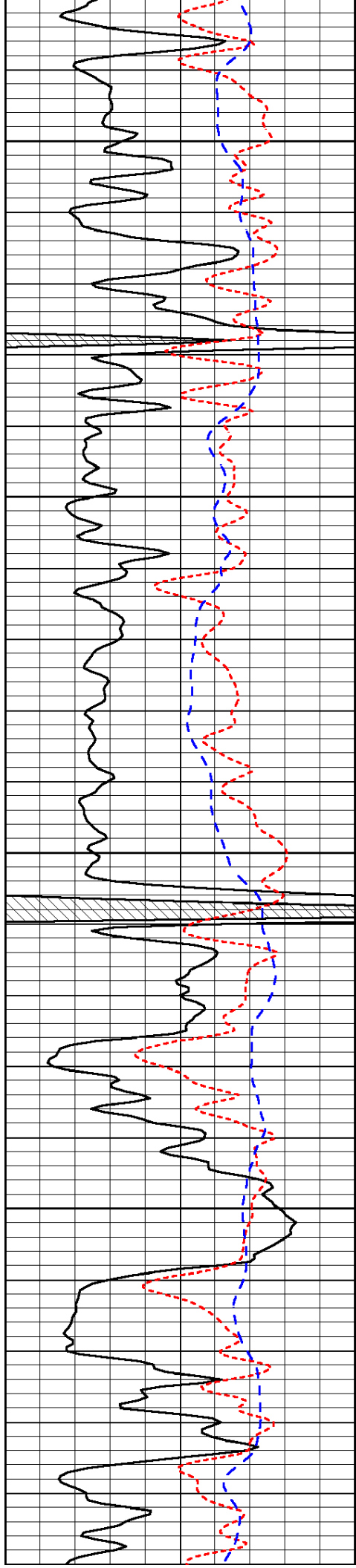


-30

-30

-30

-30



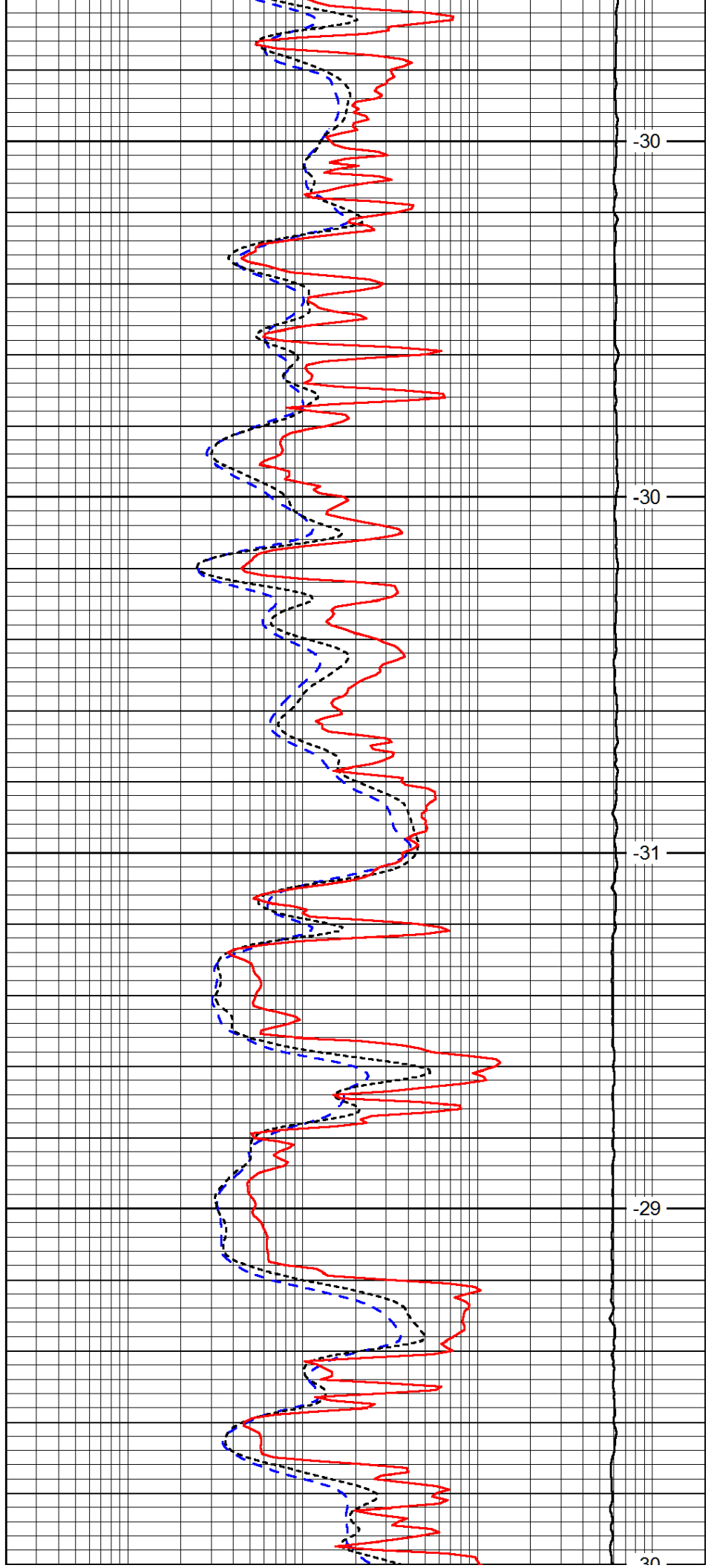
2800

2850

2900

2950

3000



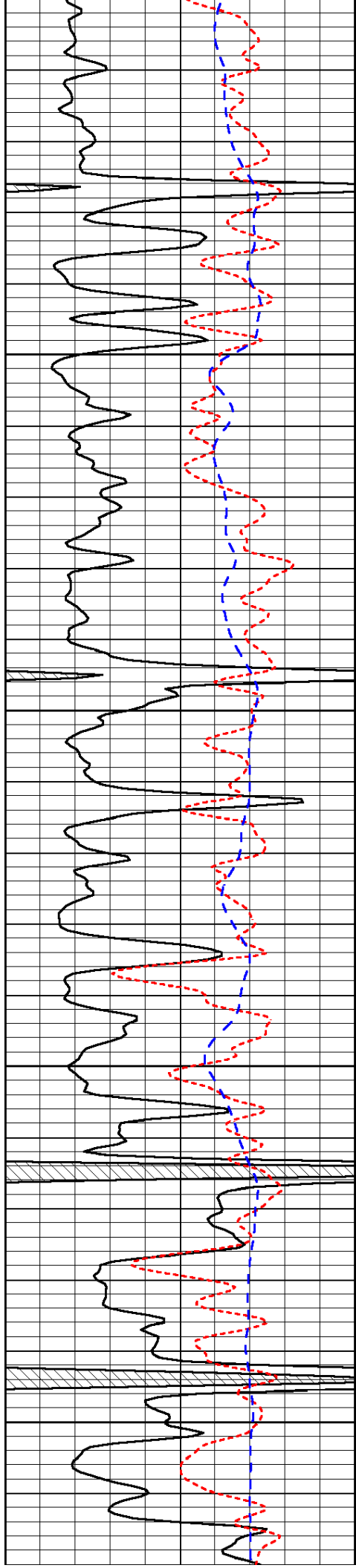
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-30

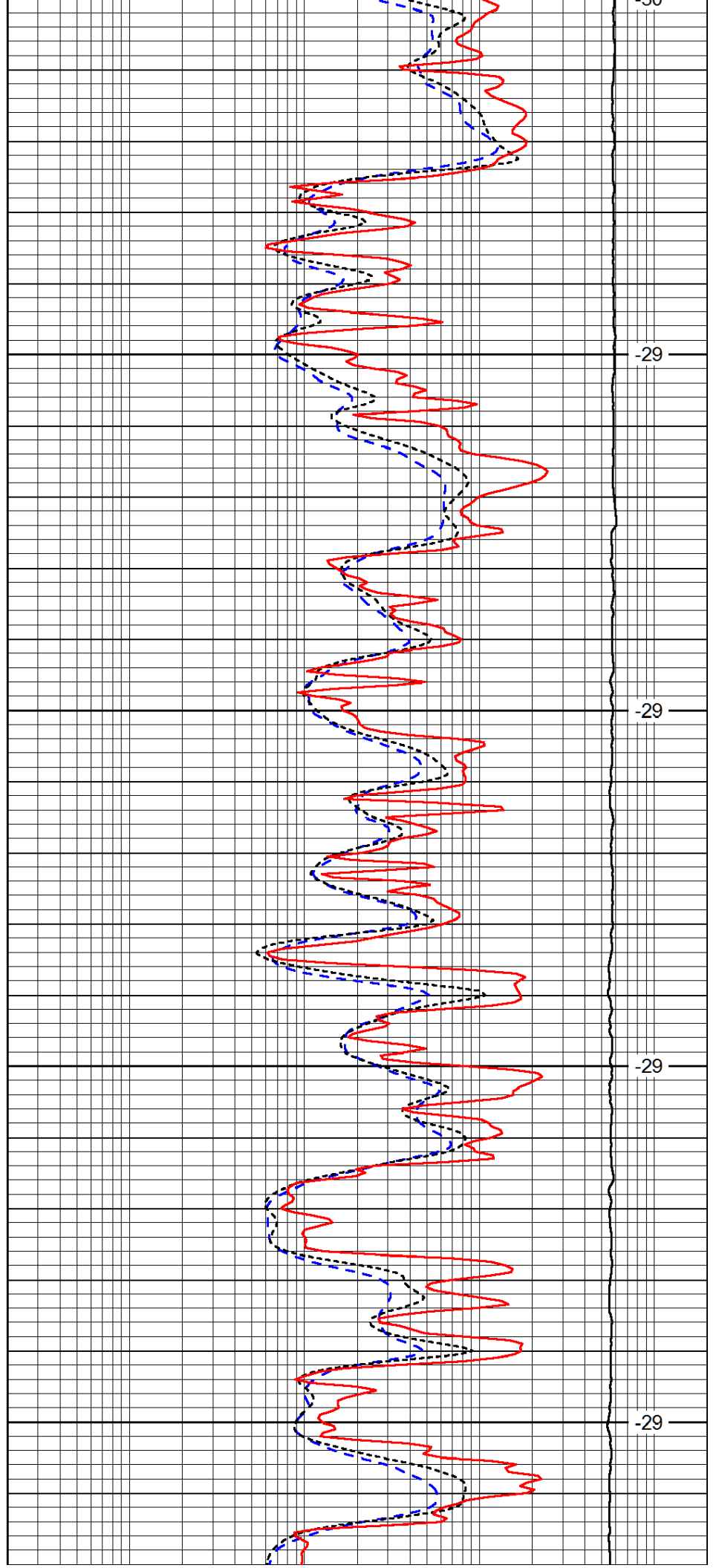
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-29

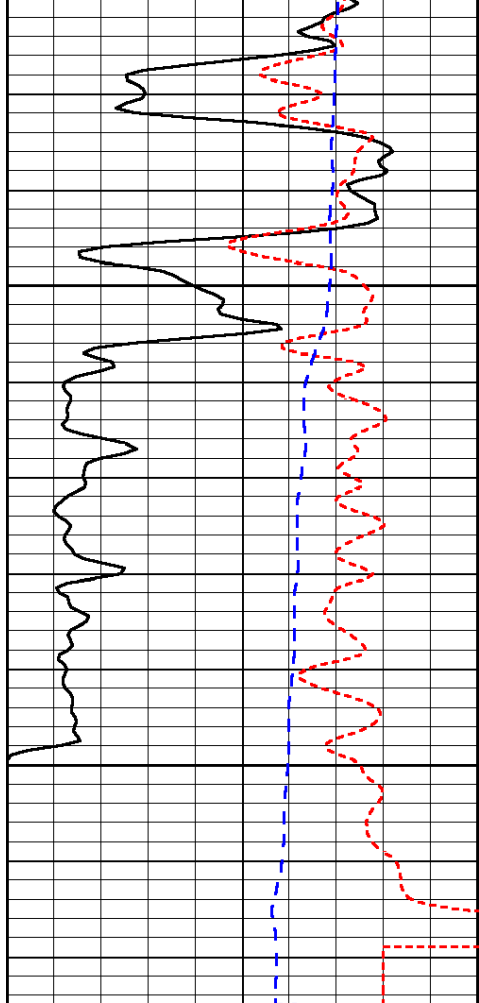
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3000
3050
3100
3150
3200



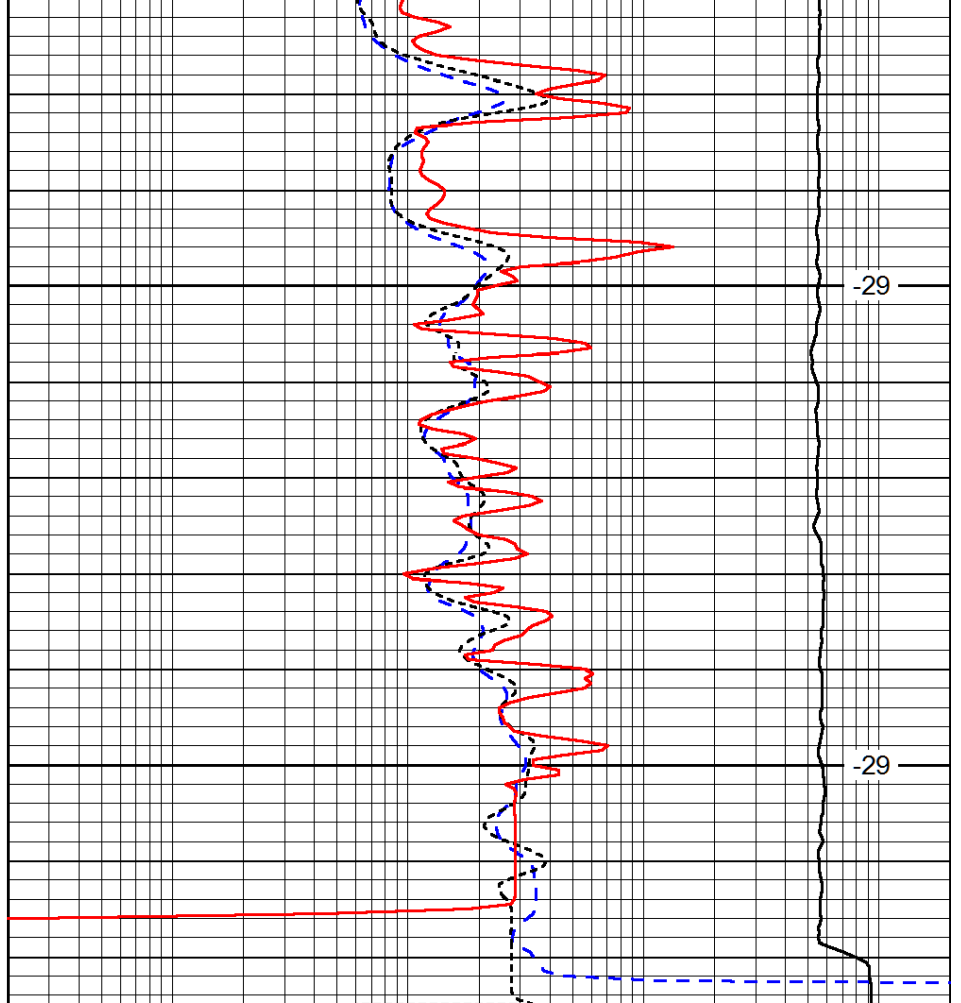
-30
-29
-29
-29
-29



3250

3300

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



-29

-29

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)
