



PIONEER

Pioneer Energy Services

Dual Induction Log

API No.	Company AMERICAN WARRIOR, INC.		
	Well TOMASHECK #1-10		
	Field WILDCAT		
	County ROOKS	State	KANSAS
15-163-24291-00-00	Location	SE NW NW SW 2084' FSL & 432' FWL	
	Sec: 10	Twp: 10S	Rge: 19W
	Other Services CNL/CDL MEL		
	Elevation		
Permanent Datum	GROUND LEVEL	Elevation 2197	
Log Measured From	KELLY BUSHING	8	Ft. Above Perm. Datum
Drilling Measured From	KELLY BUSHING	K.B. 2205 D.F. 2197 G.L. 2197	
Date	5/25/2015		
Run Number	ONE		
Depth Driller	3830		
Depth Logger	3828		
Bottom Logged Interval	3827		
Top Log Interval	200		
Casing Driller	8.625 @ 219		
Casing Logger	217		
Bit Size	7.875		
Type Fluid in Hole	CHEMICAL		
Salinity, ppm CL	4500		
Density / Viscosity	9.4 47		
pH / Fluid Loss	10 8.0		
Source of Sample	Flowline		
Rm @ Meas. Temp	0.71 @ 78		
Rmf @ Meas. Temp	0.53 @ 78		
Rmc @ Meas. Temp	0.96 @ 78		
Source of Rmf / Rmc	Charts		
Rm @ BHT	0.48 @ 114		
Operating Rig Time	4 HOURS		
Max Rec. Temp. F	114		
Equipment Number	15		
Location	HAYS		
Recorded By	D.KERR		
Witnessed By	MARC DOWNING		

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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 Pioneer Energy Services
www.pioneerres.com
785 625 3858

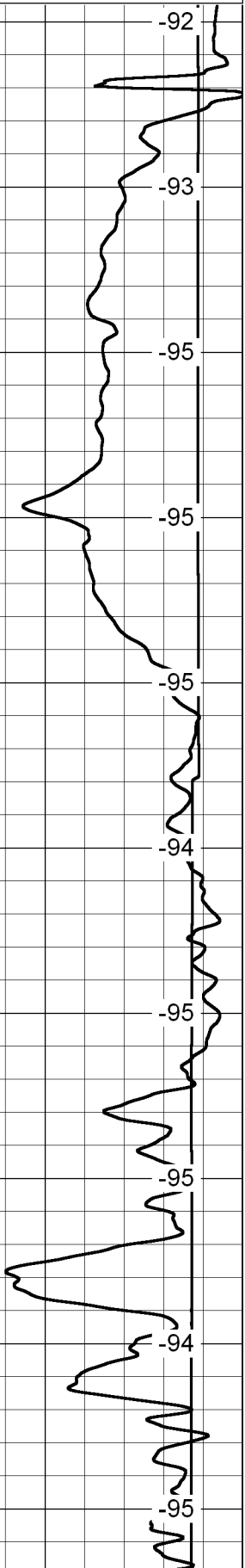
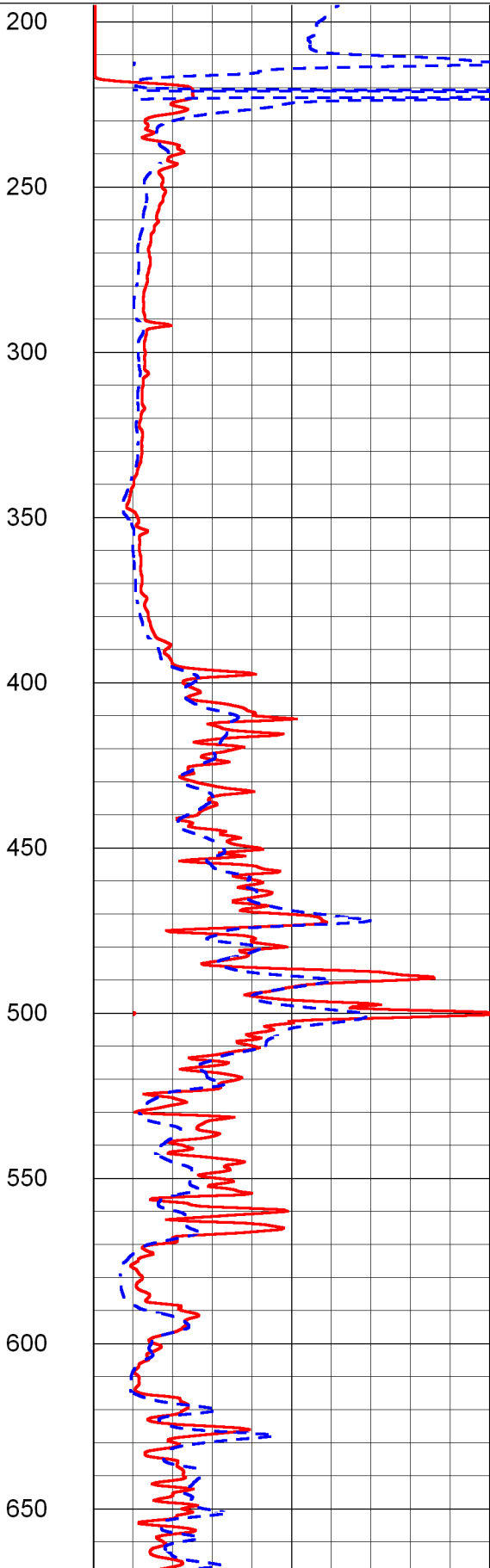
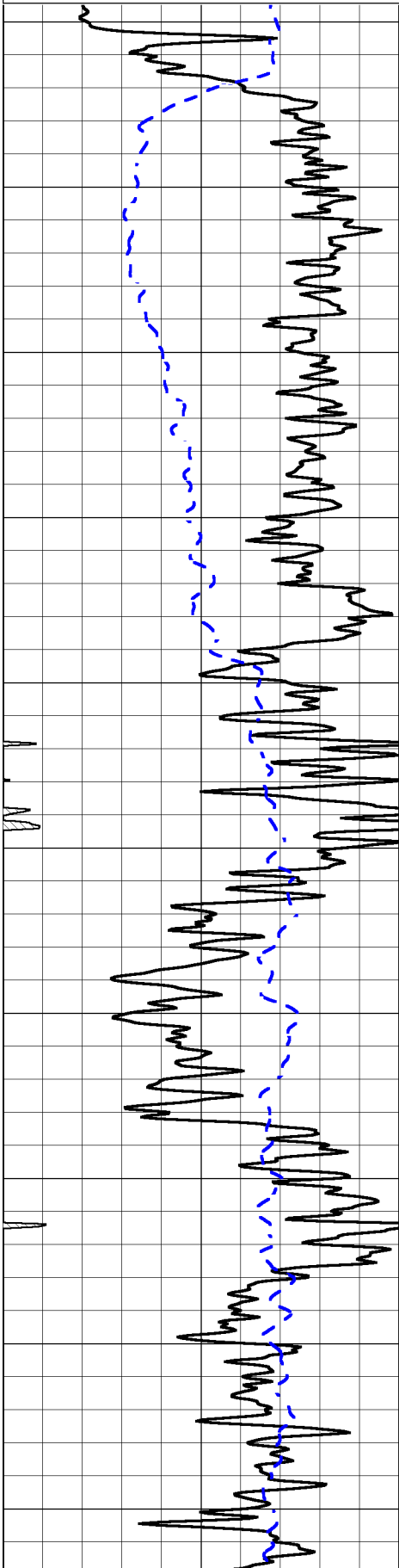
PLAINVILLE KS, SOUTH TO AA RD,
7 1/2 WEST, 1/4 NORTH, EAST INTO

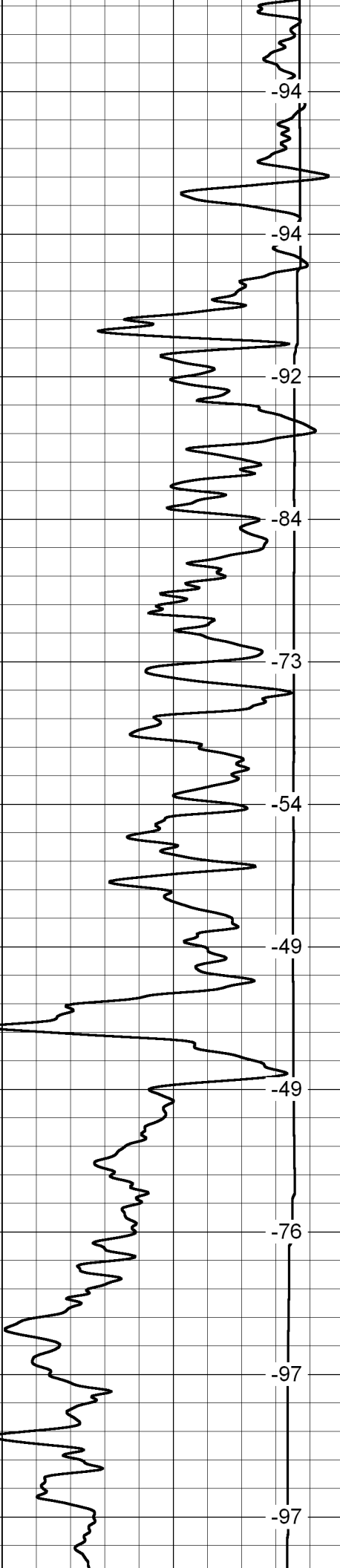
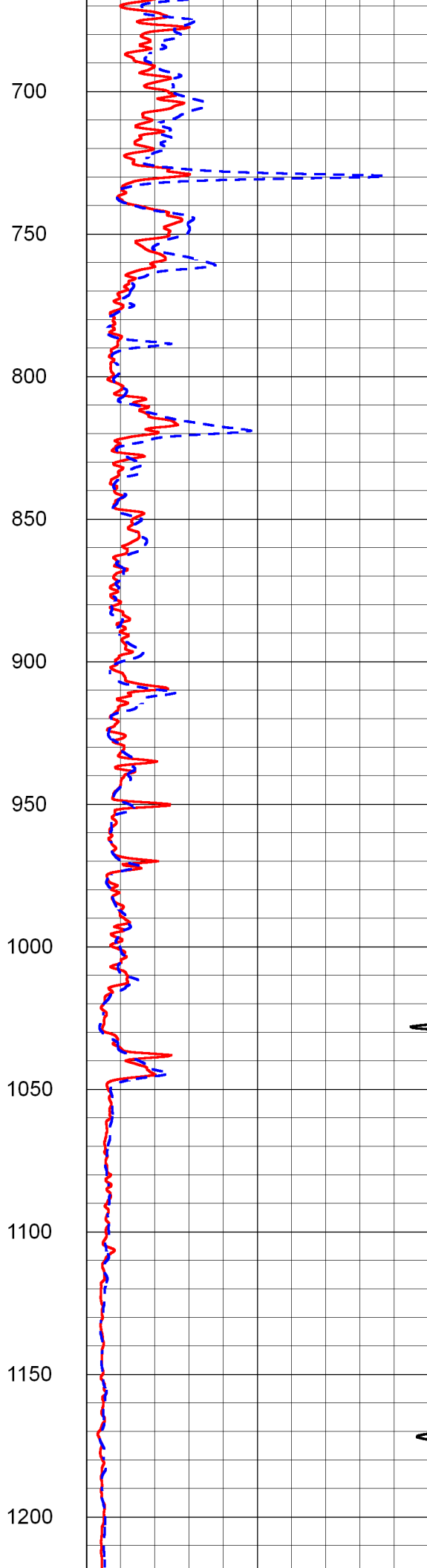
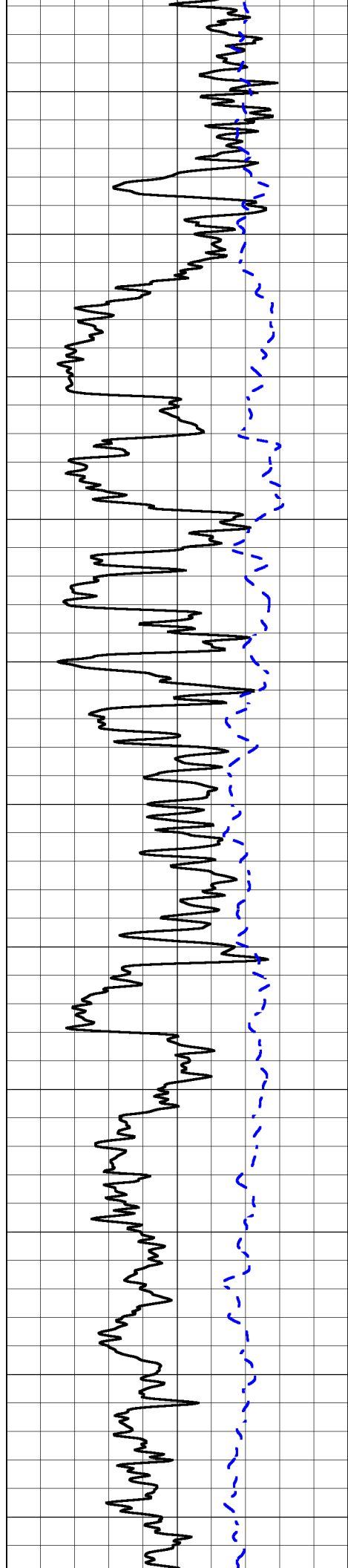
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Dataset Pathname	DIL/awstk
Presentation Format	dil2in
Dataset Creation	Mon May 25 09:30:51 2015
Charted by	Depth in Feet scaled 1:600

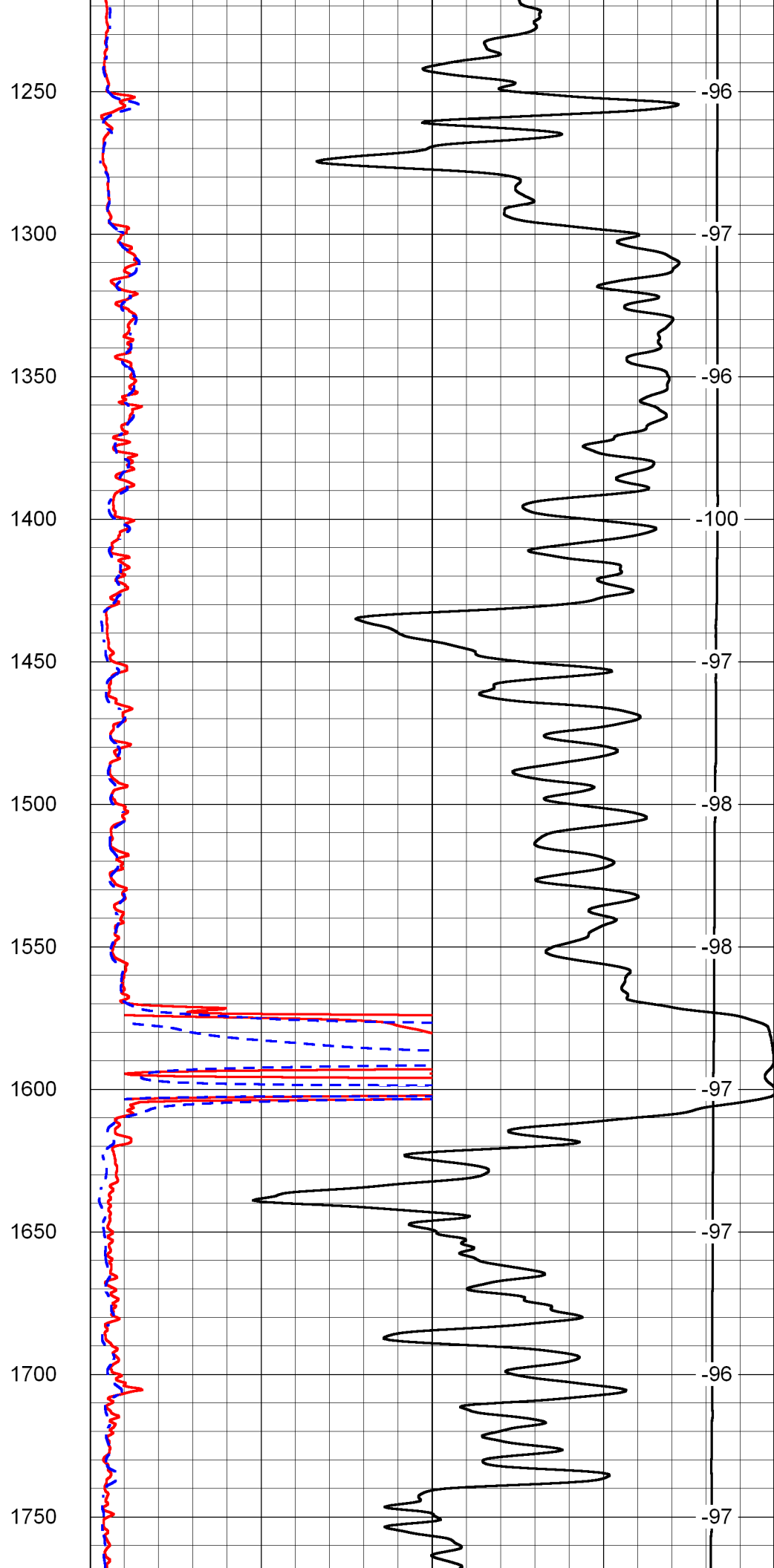
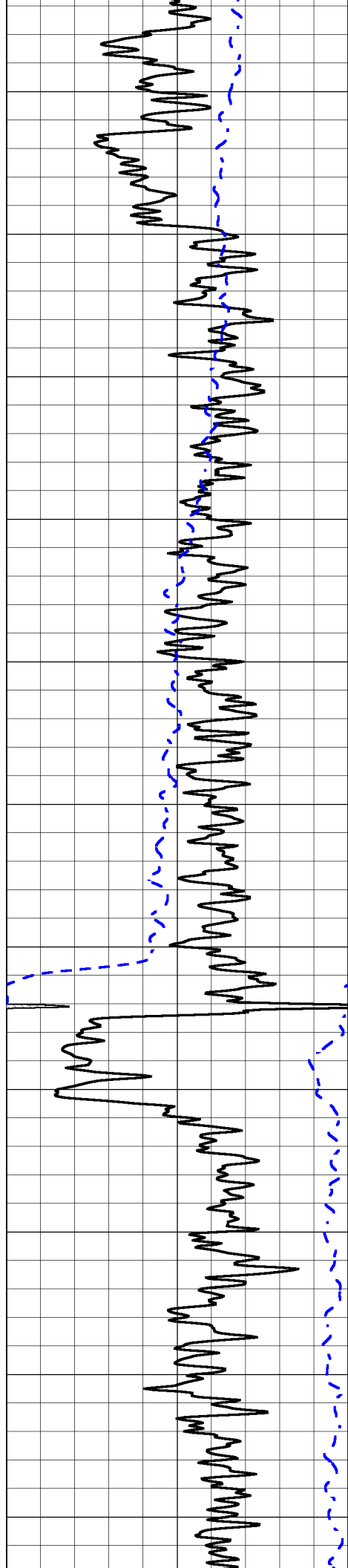
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-200	SP (mV)	0

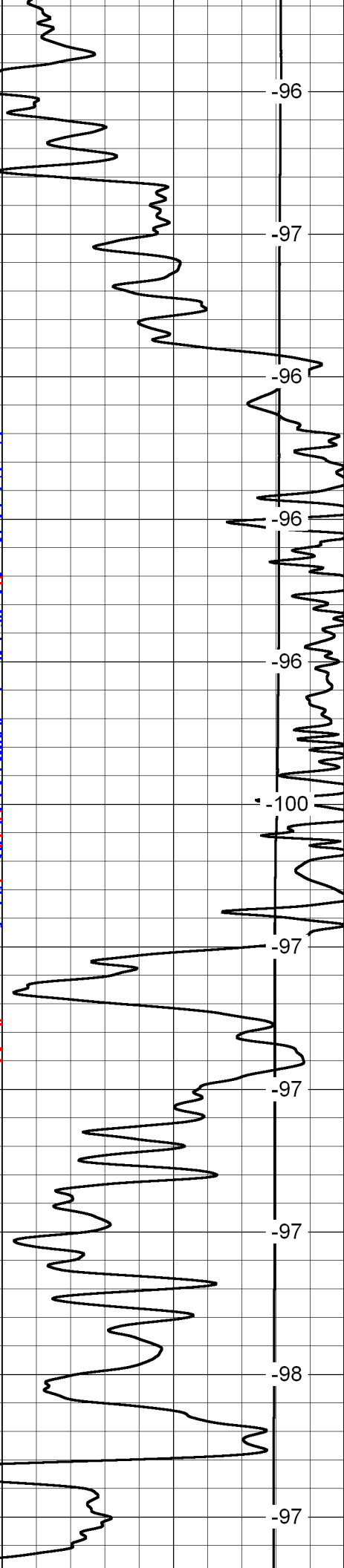
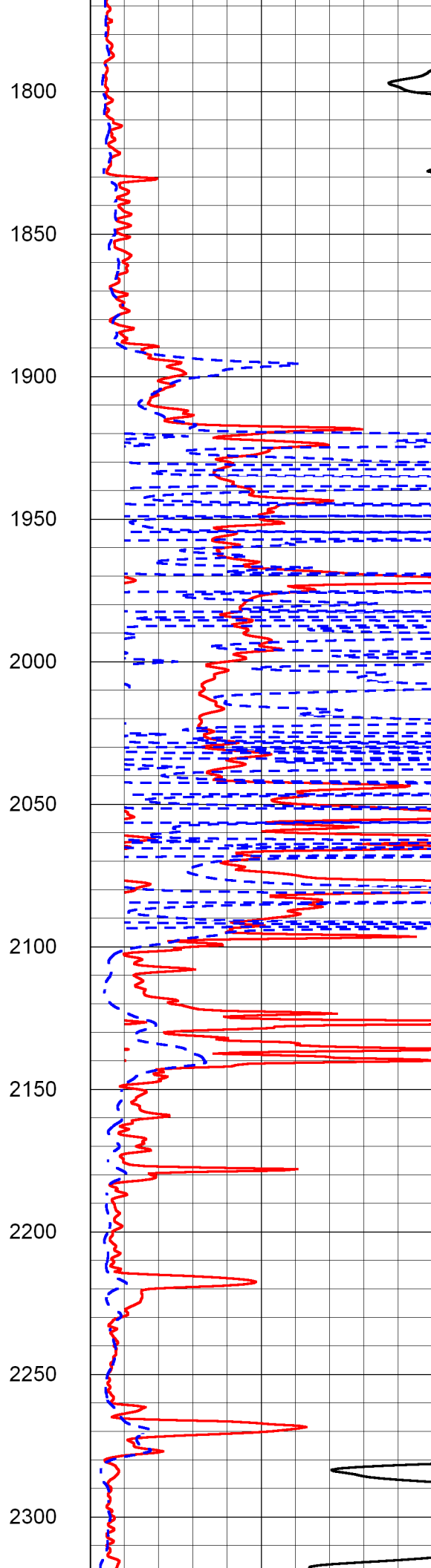
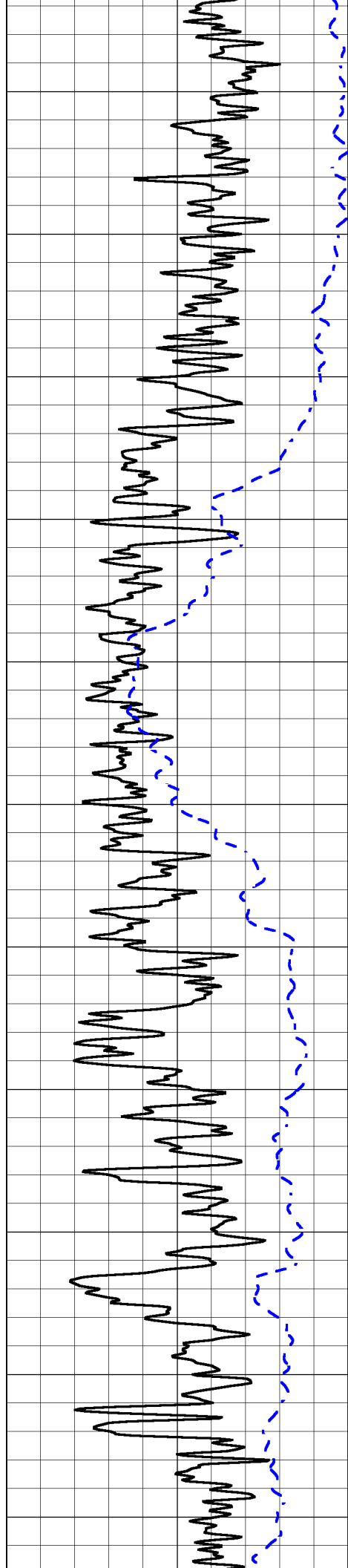
1000	Conductivity	0
15000	Line Tension	0
0	Shallow Resistivity	50
0	Deep Resistivity	50
50	Shallow Resistivity	500
50	Deep Resistivity	500

LSPD









2350

2400

2450

2500

2550

2600

2650

2700

2750

2800

2850

-97

-96

-96

-96

-96

-101

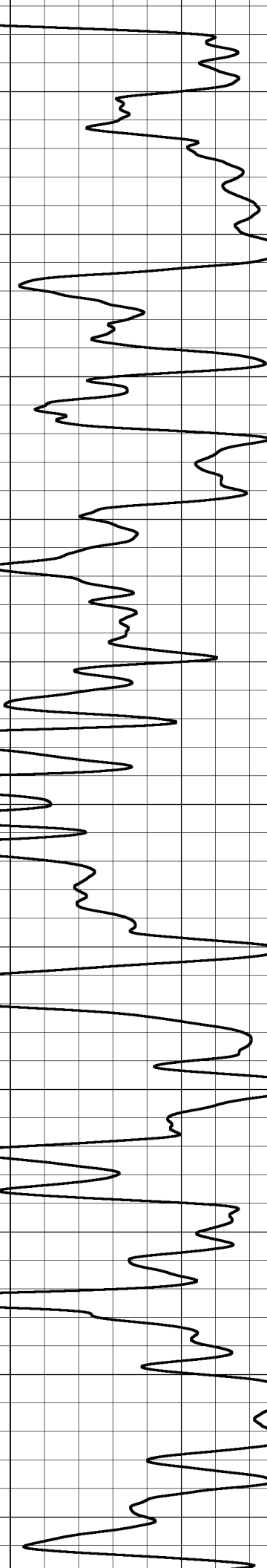
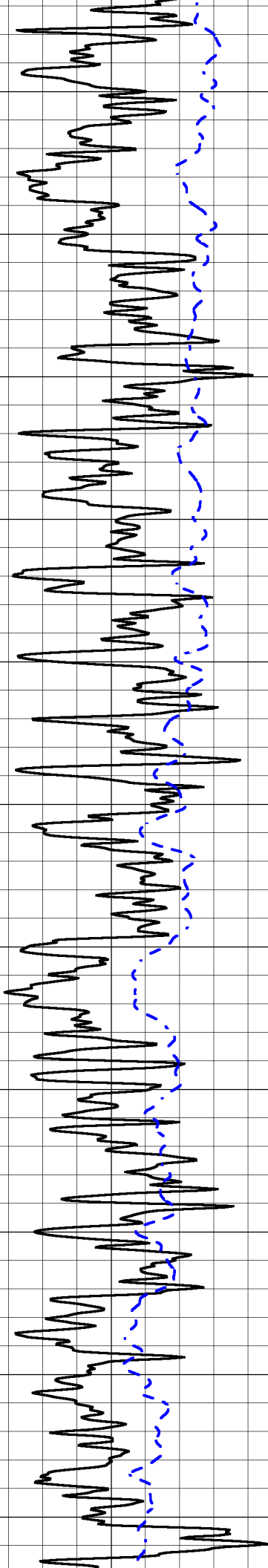
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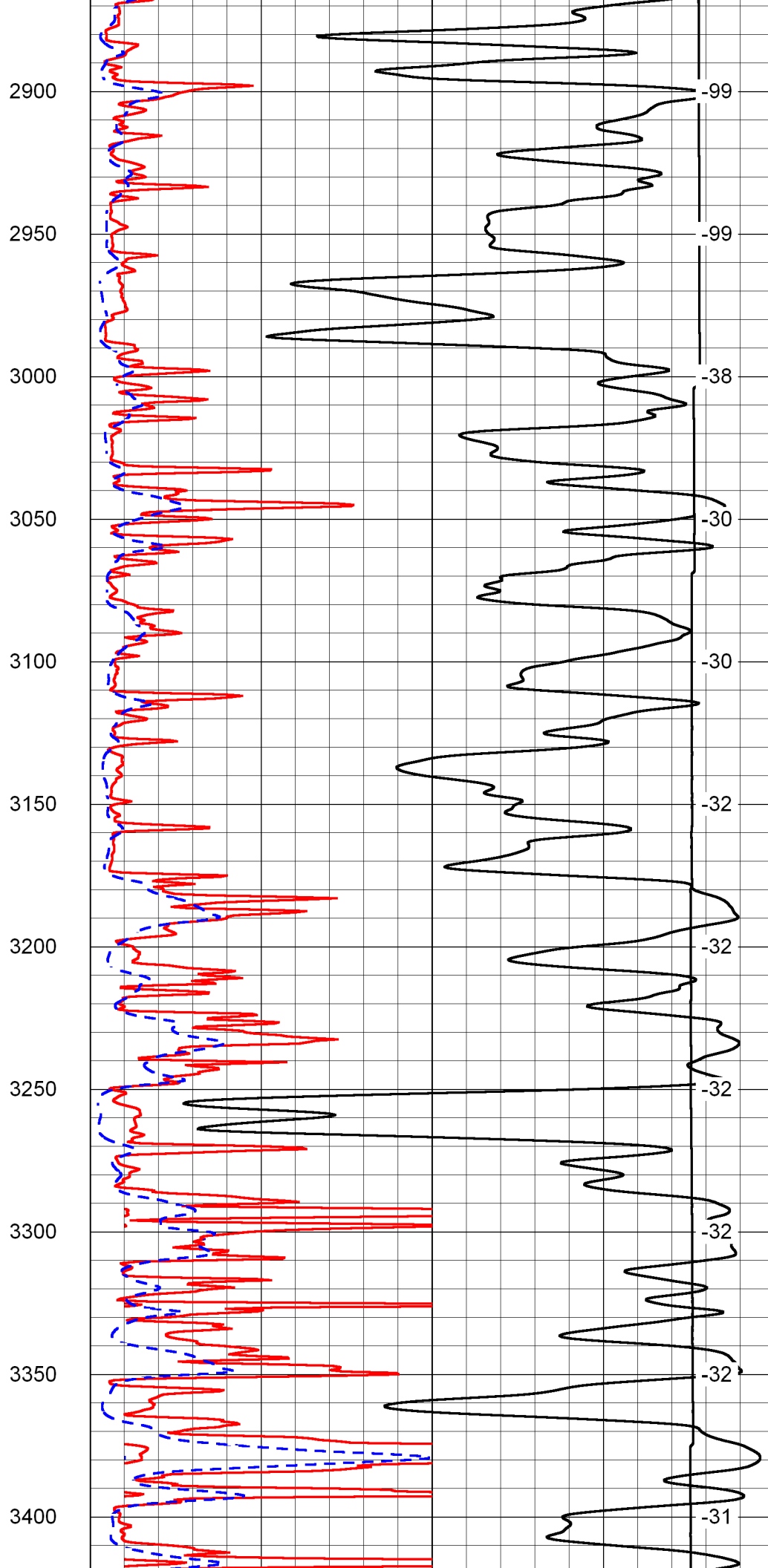
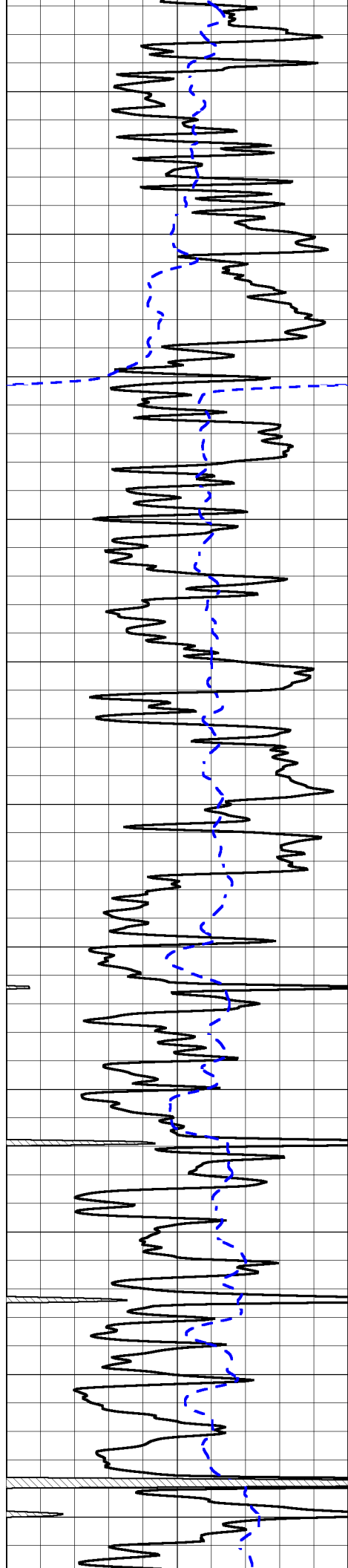
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-99

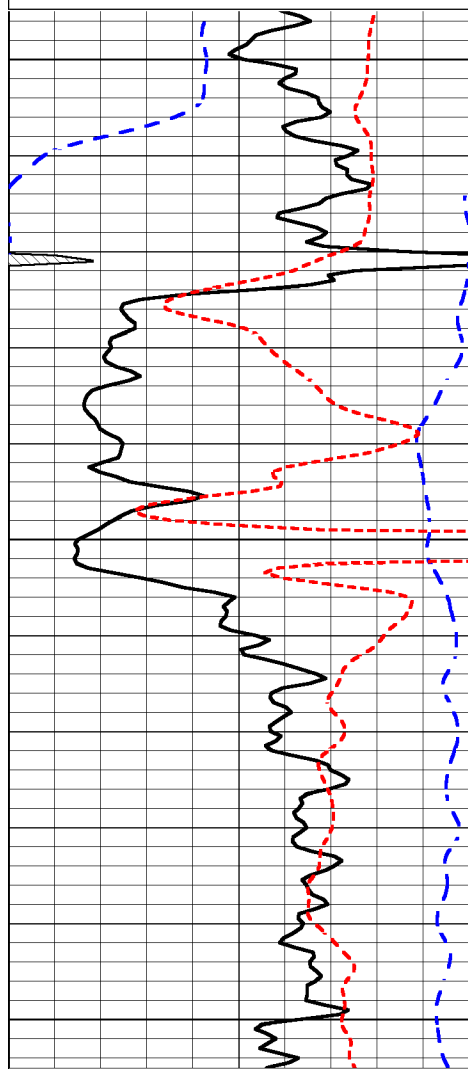
-98

-99





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



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

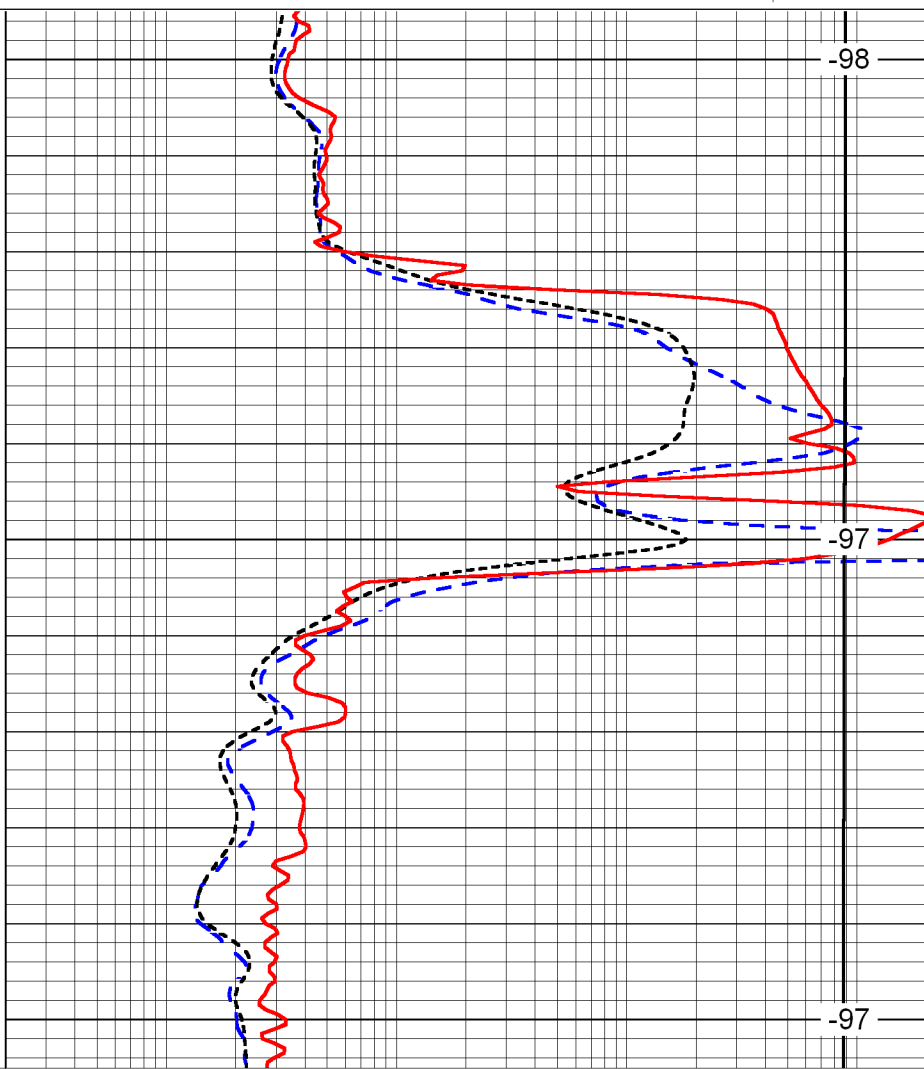
0.2	Deep Resistivity	2000
0.2	Medium Resistivity	2000
0.2	Shallow Resistivity	2000
15000	Line Tension	0

LSPD

1550

1600

1650



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

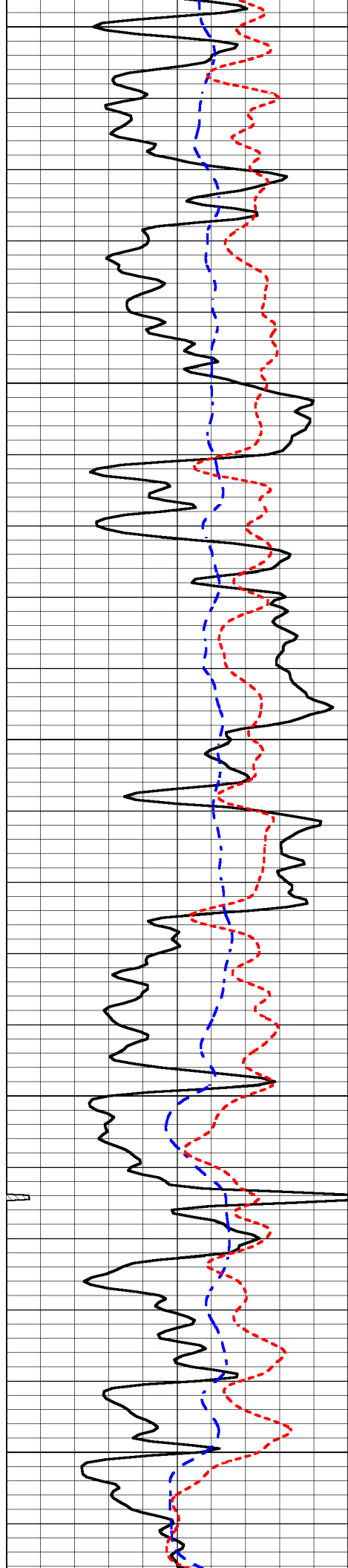
LSPD

Database File amwar_tomasheck #1-10\americanwarrior_tomasheck_1_10hd.db
Dataset Pathname DIL/awstk
Presentation Format dil
Dataset Creation Mon May 25 09:30:51 2015
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



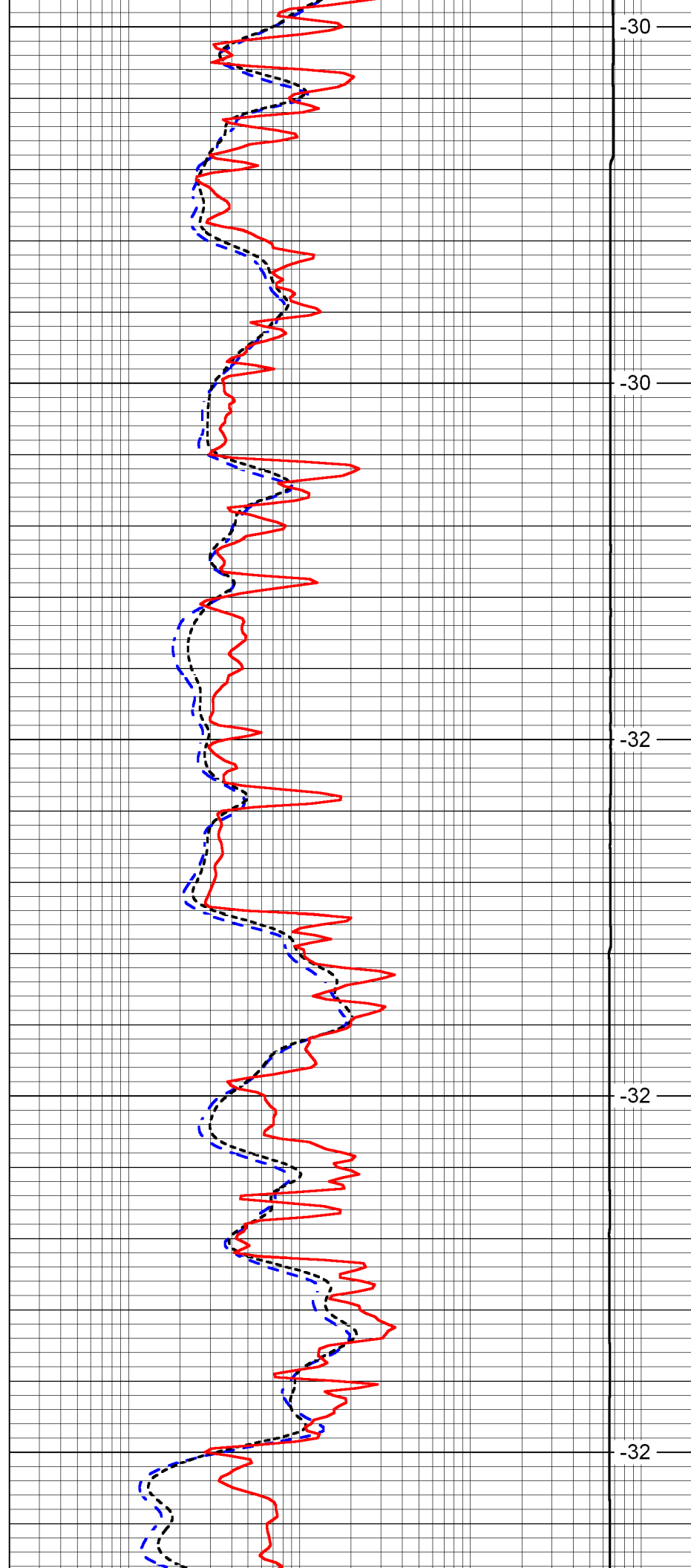
3050

3100

3150

3200

3250



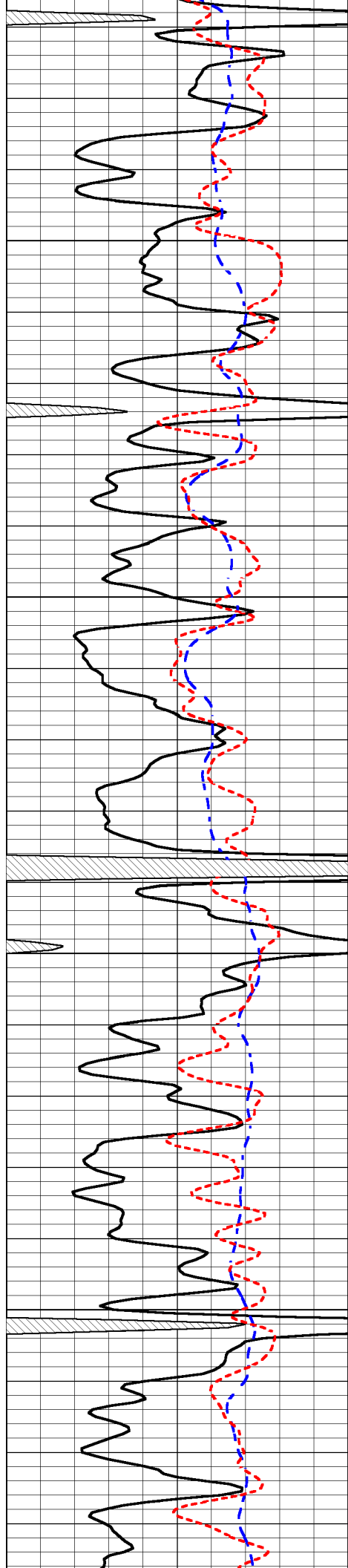
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-30

-32

-32

-32

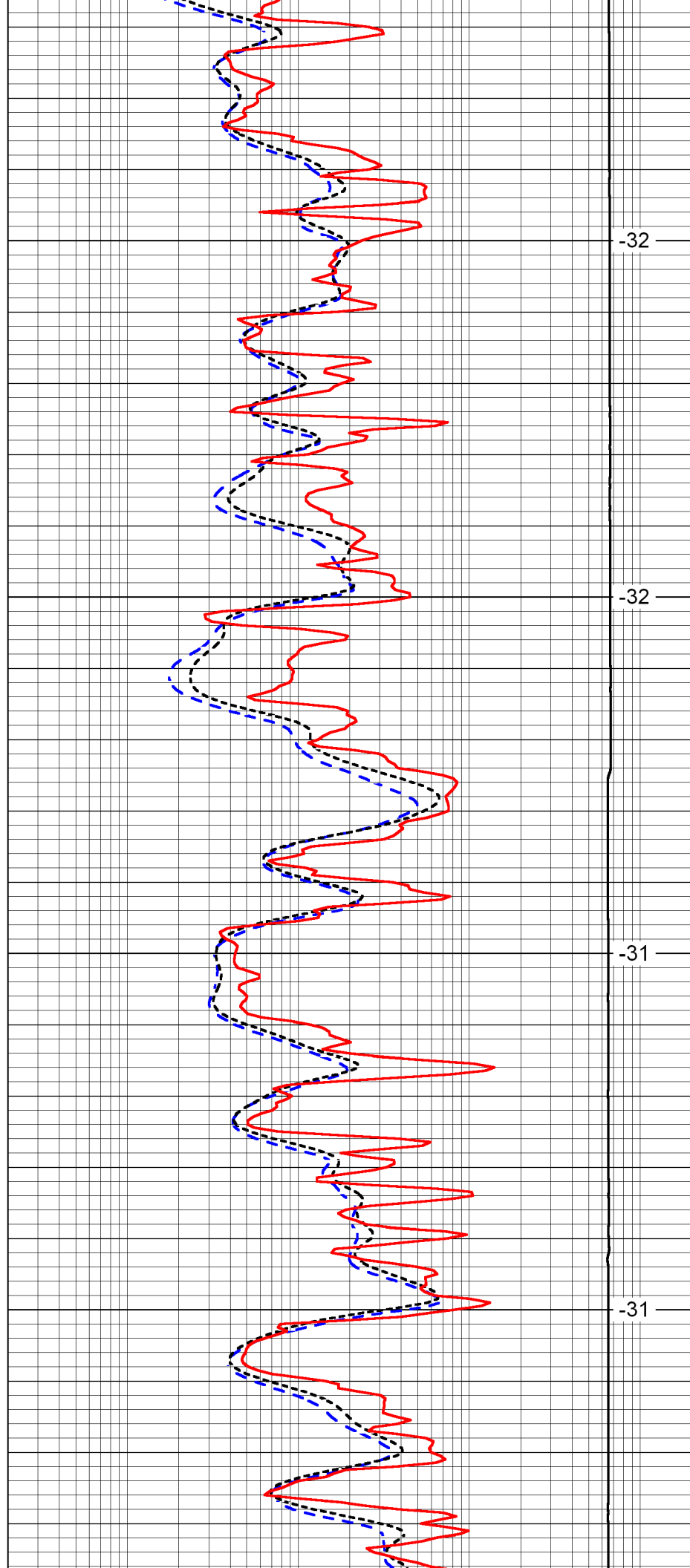


3300

3350

3400

3450

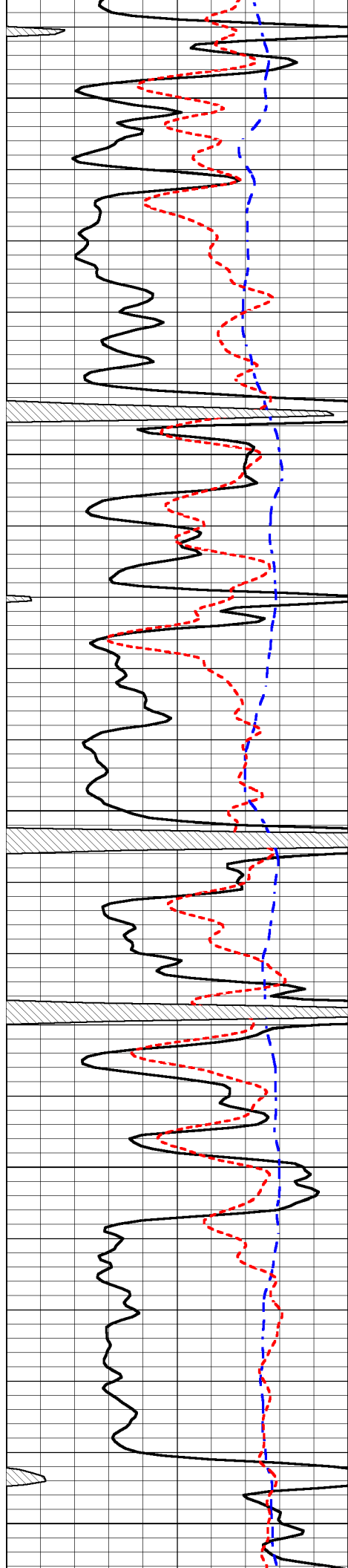


-32

-32

-31

-31



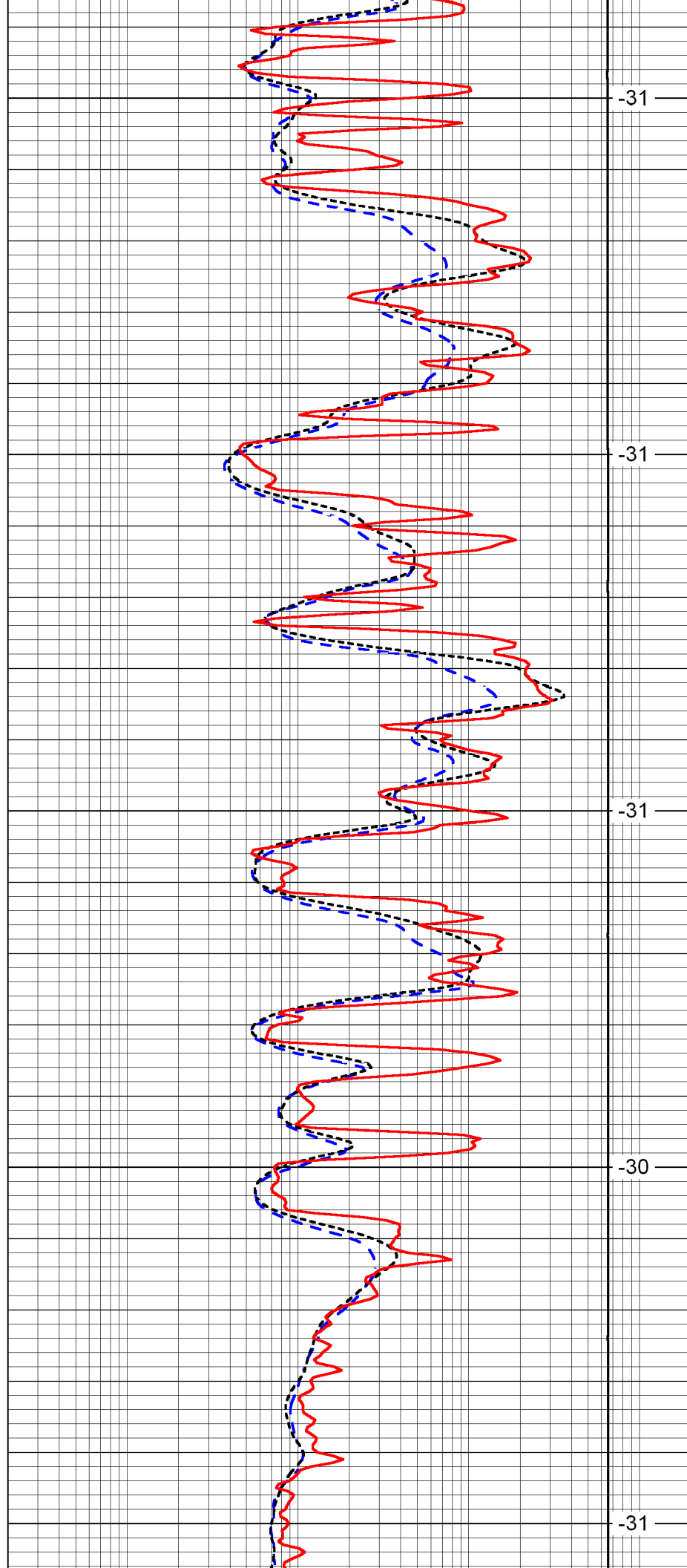
3500

3550

3600

3650

3700



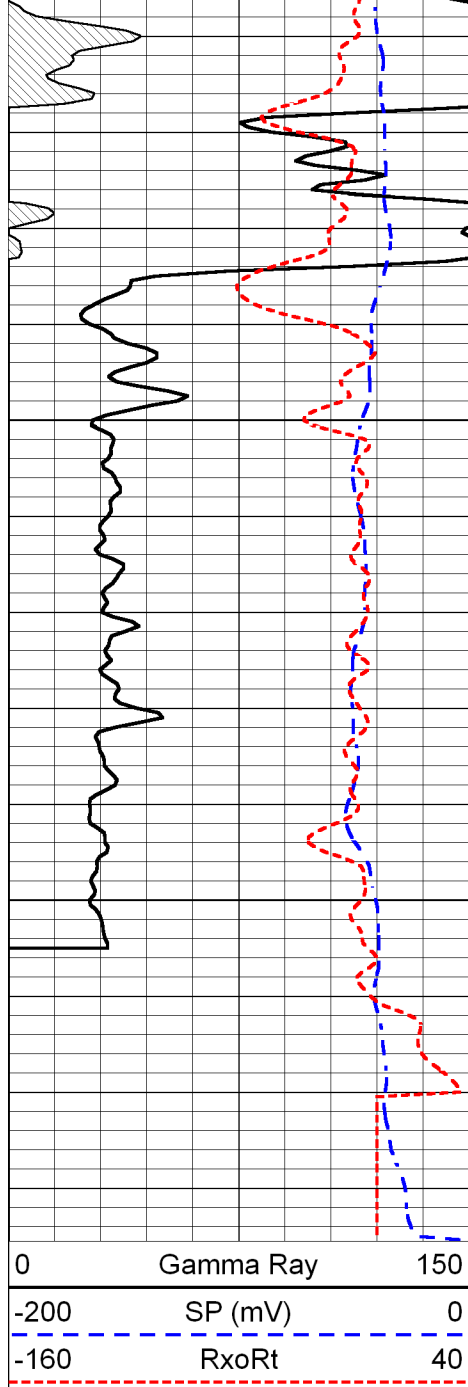
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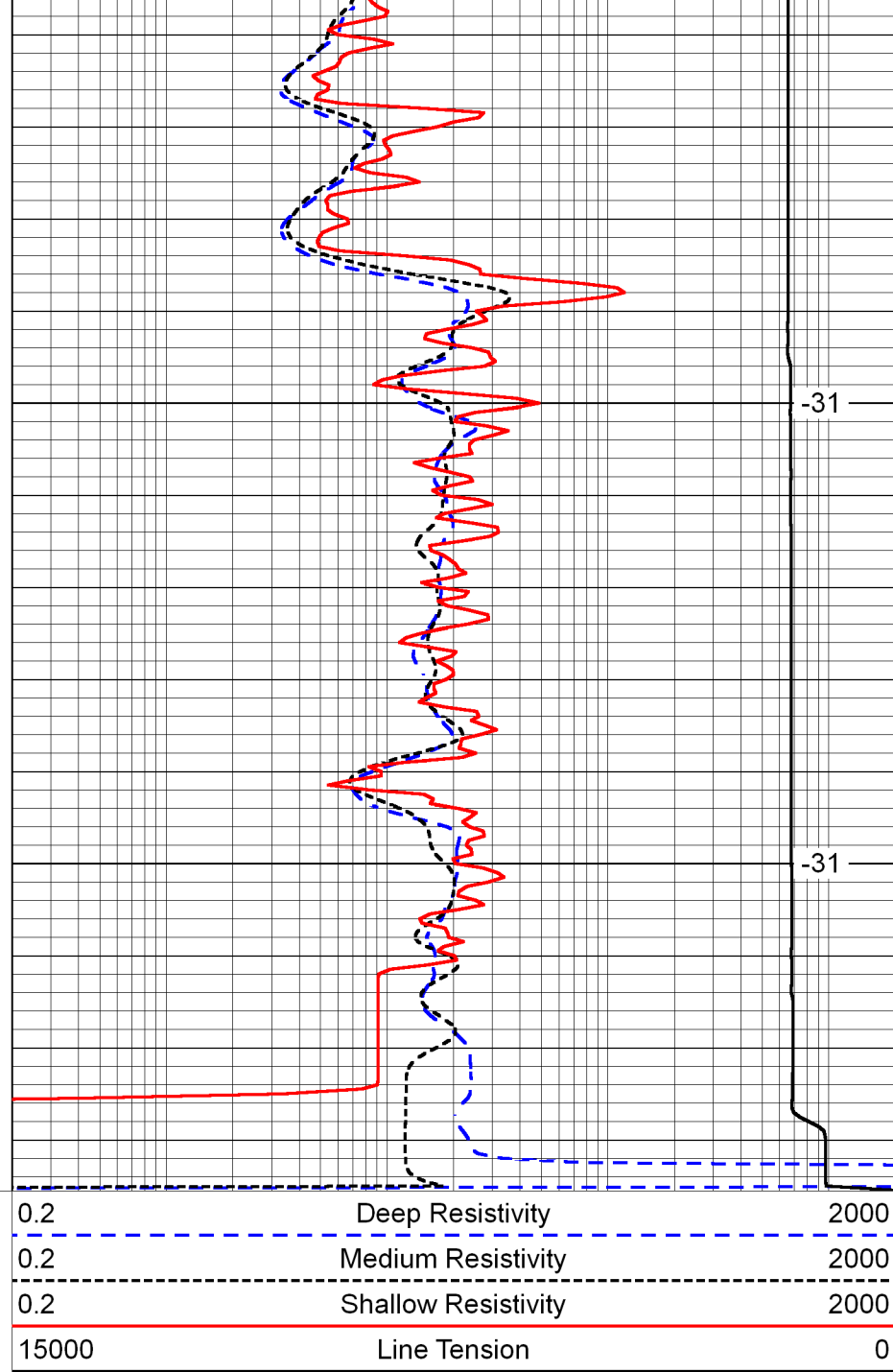
-30

-31



3750

3800



-31

-31

LSPD