

PIONEER
Pioneer Energy Services

**MICRORESISTIVITY
LOG**

Company TDI, INC.		Company TDI, INC.	
Well	MARCOTTE #1	Well	MARCOTTE #1
Field	HAYDEN NORTHWEST	Field	HAYDEN NORTHWEST
County	ROOKS	County	ROOKS
State	KANSAS	State	KANSAS
Location:	API # : 15-163-24297-00-00 1285' FSL & 1190' FWL SEC 29 TWP 8S RGE 19W	Other Services CNL/CDL DIL	
Permanent Datum	GROUND LEVEL	Elevation	2034
Log Measured From	KELLY BUSHING	K.B.	2044
Drilling Measured From	KELLY BUSHING	D.F.	N/A
		G.L.	2034
Date	7/10/2015		
Run Number	TWO		
Depth Driller	3580		
Depth Logger	3582		
Bottom Logged Interval	3581		
Top Log Interval	2100		
Casing Driller	8.625 @ 229		
Casing Logger	229		
Bit Size	7.875		
Type Fluid in Hole	CHEMICAL		
Salinity, ppm CL	1200		
Density / Viscosity	9.4 55		
pH / Fluid Loss	10.5 7.2		
Source of Sample	Flowline		
Rm @ Meas. Temp	0.90 @ 70		
Rmf @ Meas. Temp	0.68 @ 70		
Rmc @ Meas. Temp	1.22 @ 70		
Source of Rmf / Rmc	Charts		
Rm @ BHT	0.56 @ 112		
Operating Rig Time	4 HOURS		
Max Rec. Temp. F	112		
Equipment Number	91		
Location	HAYS		
Recorded By	D. SCHMIDT		
Witnessed By	TOM DENNING	HERB DEINES	

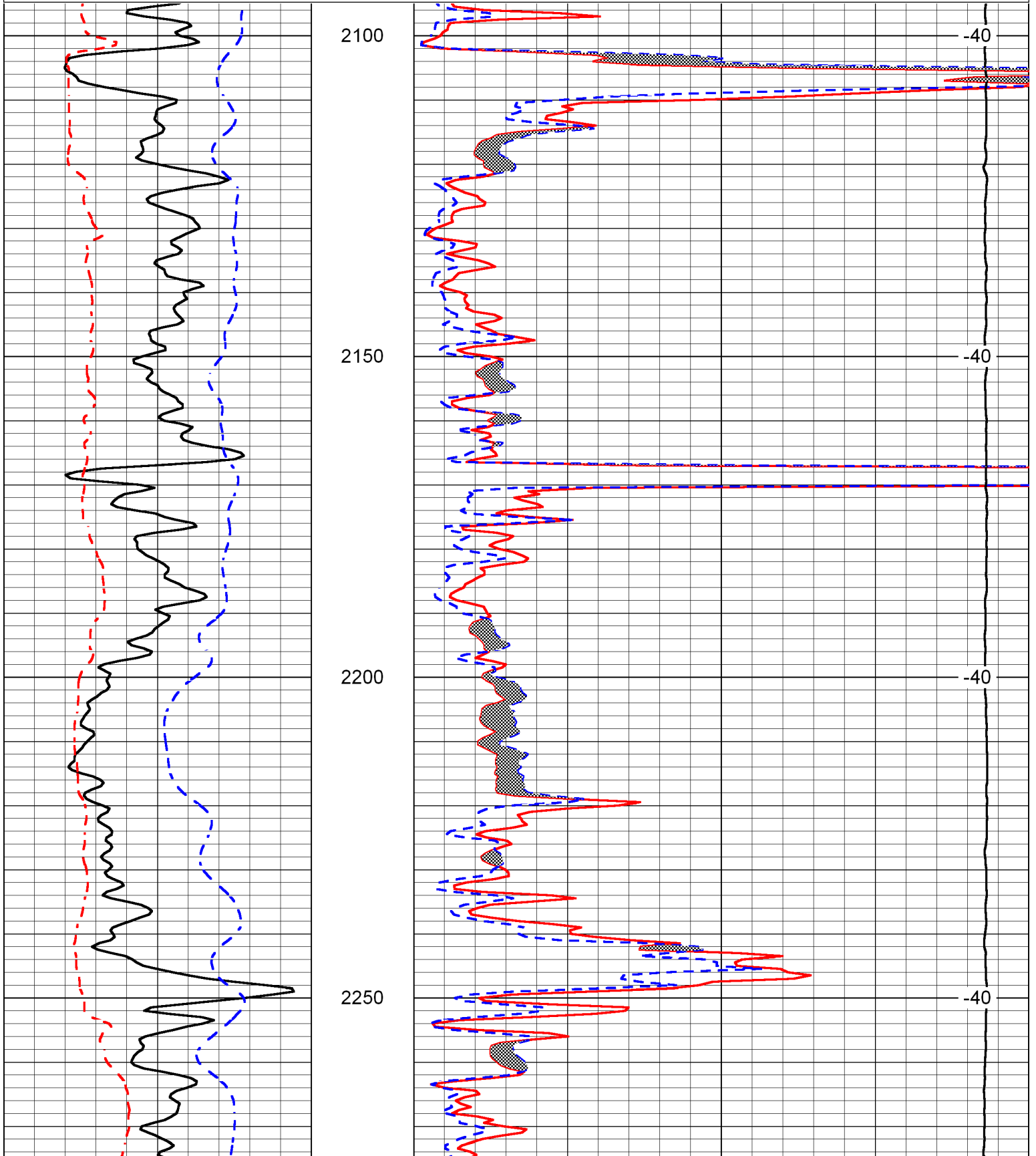
<<< Fold Here >>>	
All interpretations are opinions based on inferences from electrical or other measurements and Pioneer Wireline Services, LLC cannot and does not guarantee the accuracy or correctness of any interpretation, and Pioneer Wireline Services, LLC will not be liable or responsible for any loss, costs, damages, or expenses incurred or sustained by anyone resulting from any interpretation made by any of our officers, agents or employees.	
Comments N/A DENOTES NOT AVAILABLE OR NON-APPLICABLE. ZURICH, 6 NORTH, 1 3/4 WEST, NORTH INTO Log Measured From: KELLY BUSHING 10 Ft. Above Permanent Datum THANK YOU FOR USING PIONEER ENERGY SERVICES www.pioneerres.com 785-625-3858	
Your Pioneer Energy Services Crew	This Log Record Was Witnessed By
Engineer: D. SCHMIDT Operator: Operator: Operator:	Primary Witness: TOM DENNING Secondary Witness: HERB DEINES Secondary Witness: Secondary Witness:

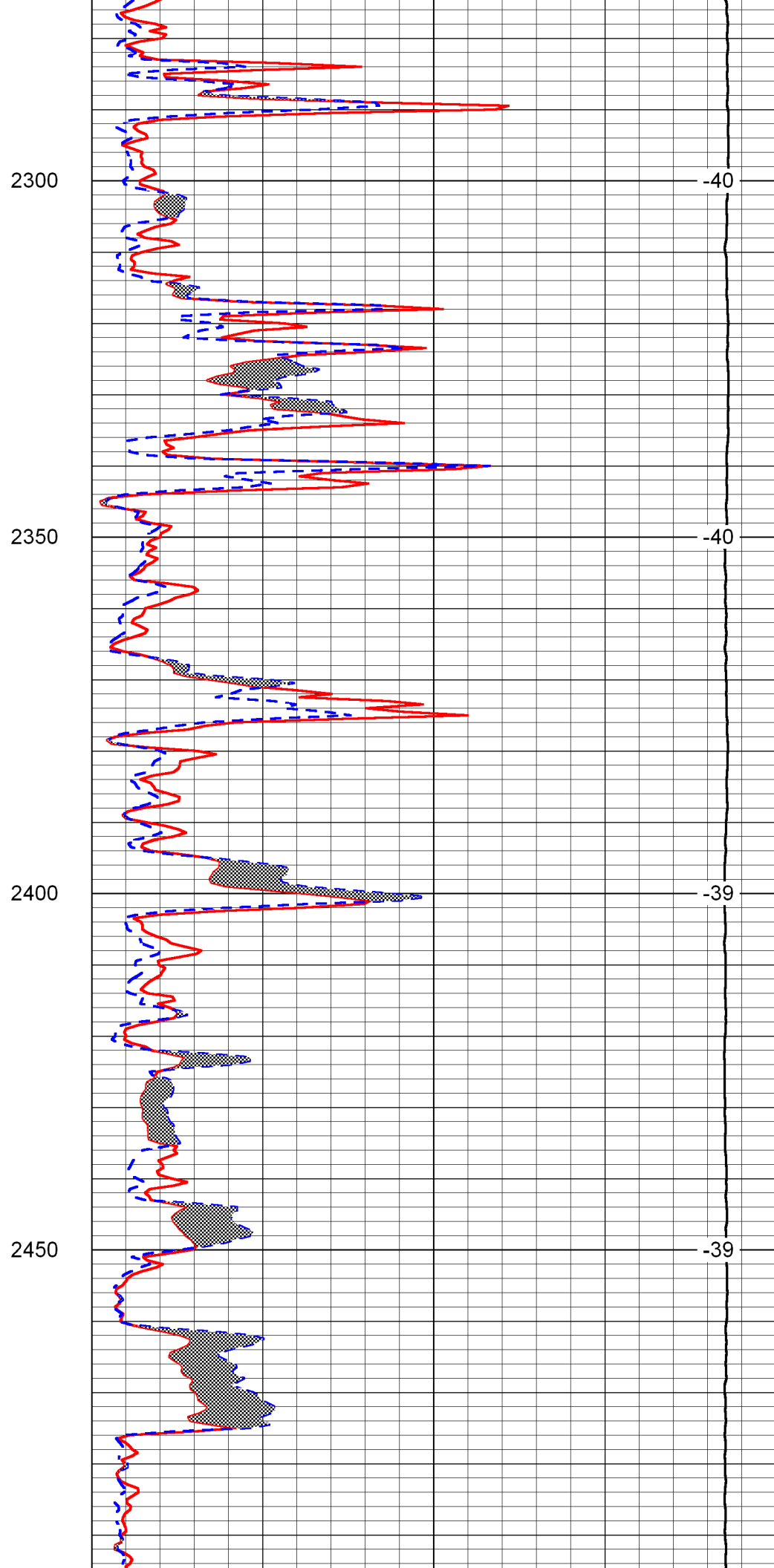
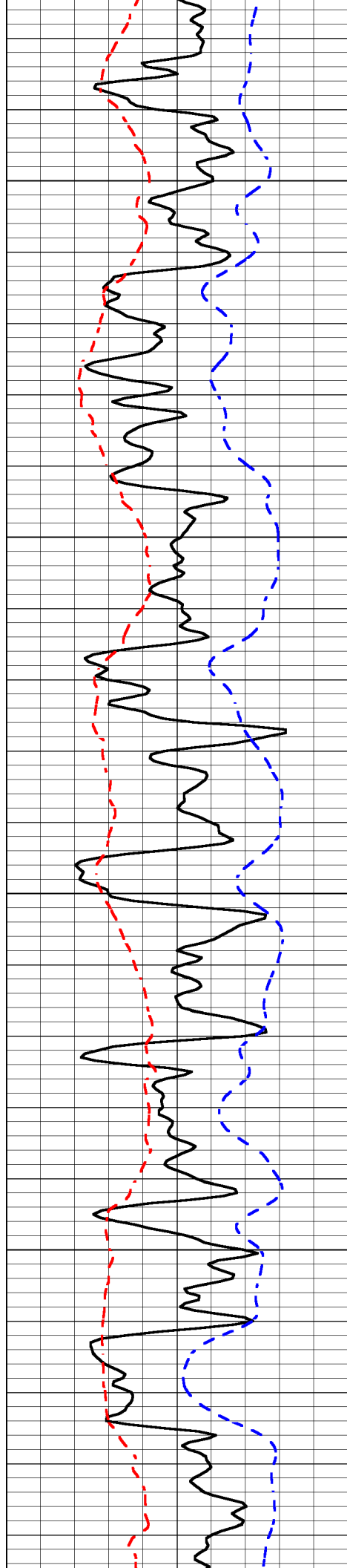
Database File tdi_marcotte #1\tdi_marcotte_1hd.db
Dataset Pathname DIL/tdstack
Presentation Format micro
Dataset Creation Fri Jul 10 10:02:11 2015
Charted by Depth in Feet scaled 1:240

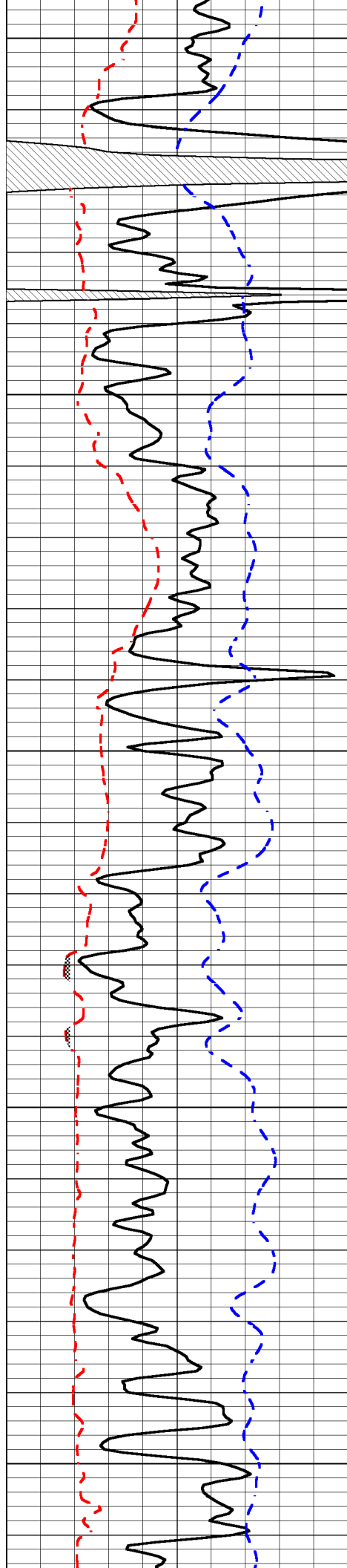
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6	MCAL (in)	16
-200	SP (mV)	0

0	Micro Inverse 1 X 1	40
0	Micro Normal 2"	40
15000	Line Weight	0

LSPD







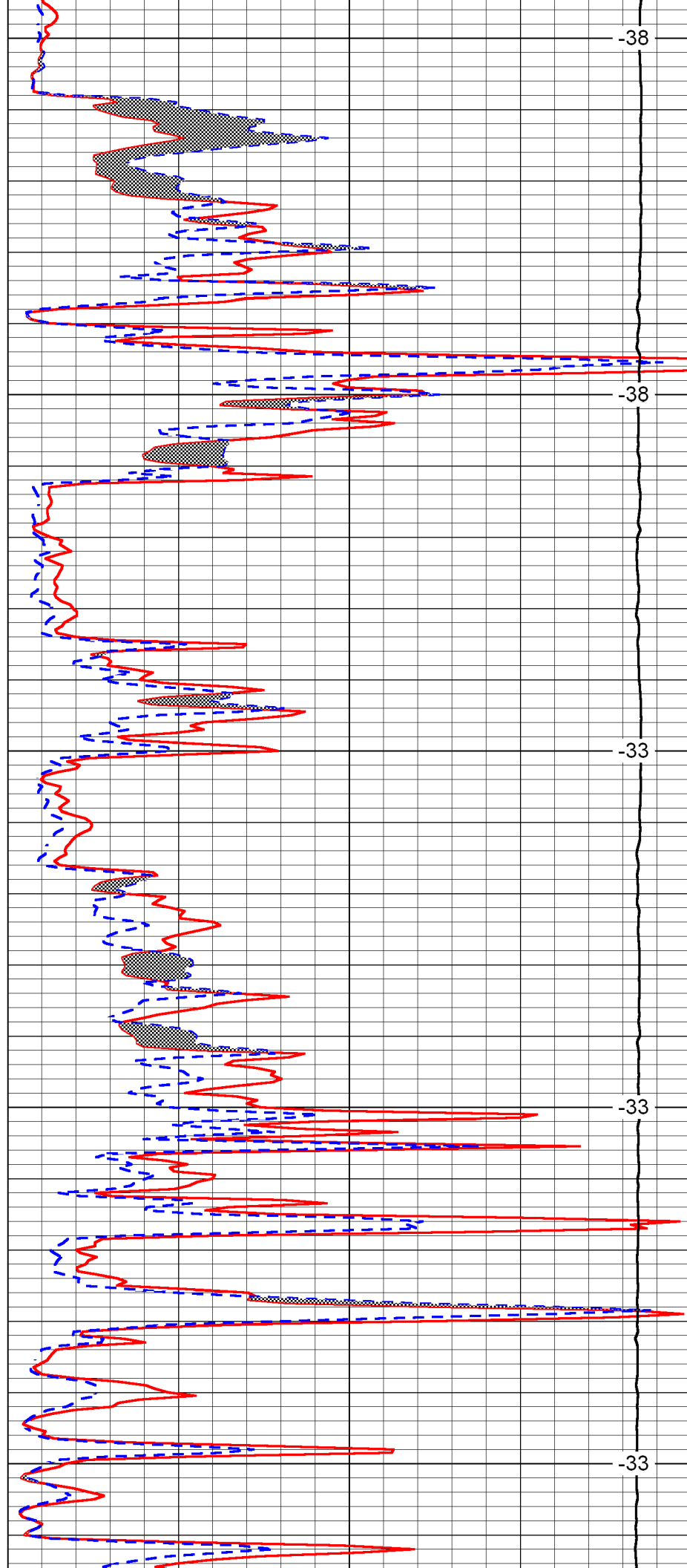
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2550

2600

2650

2700



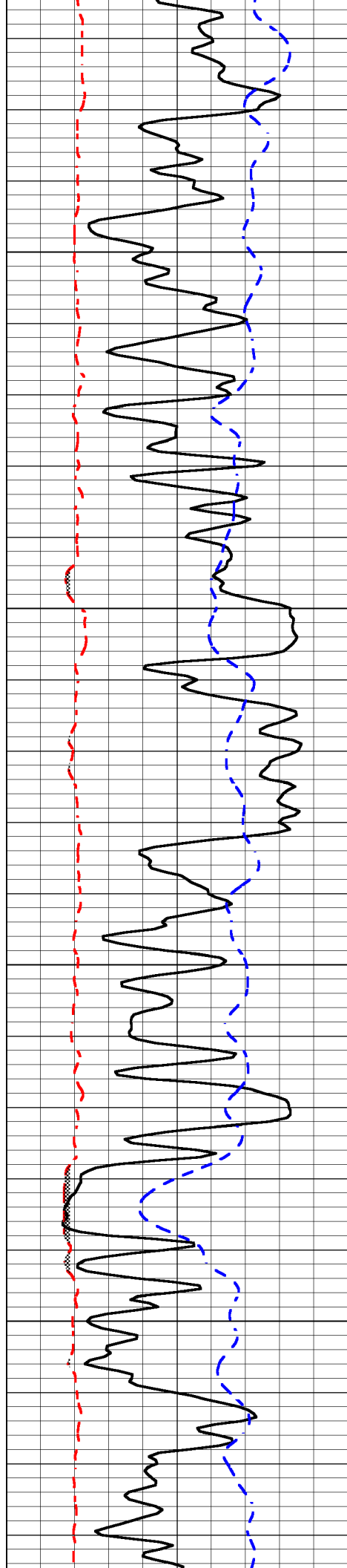
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-38

-33

-33

-33

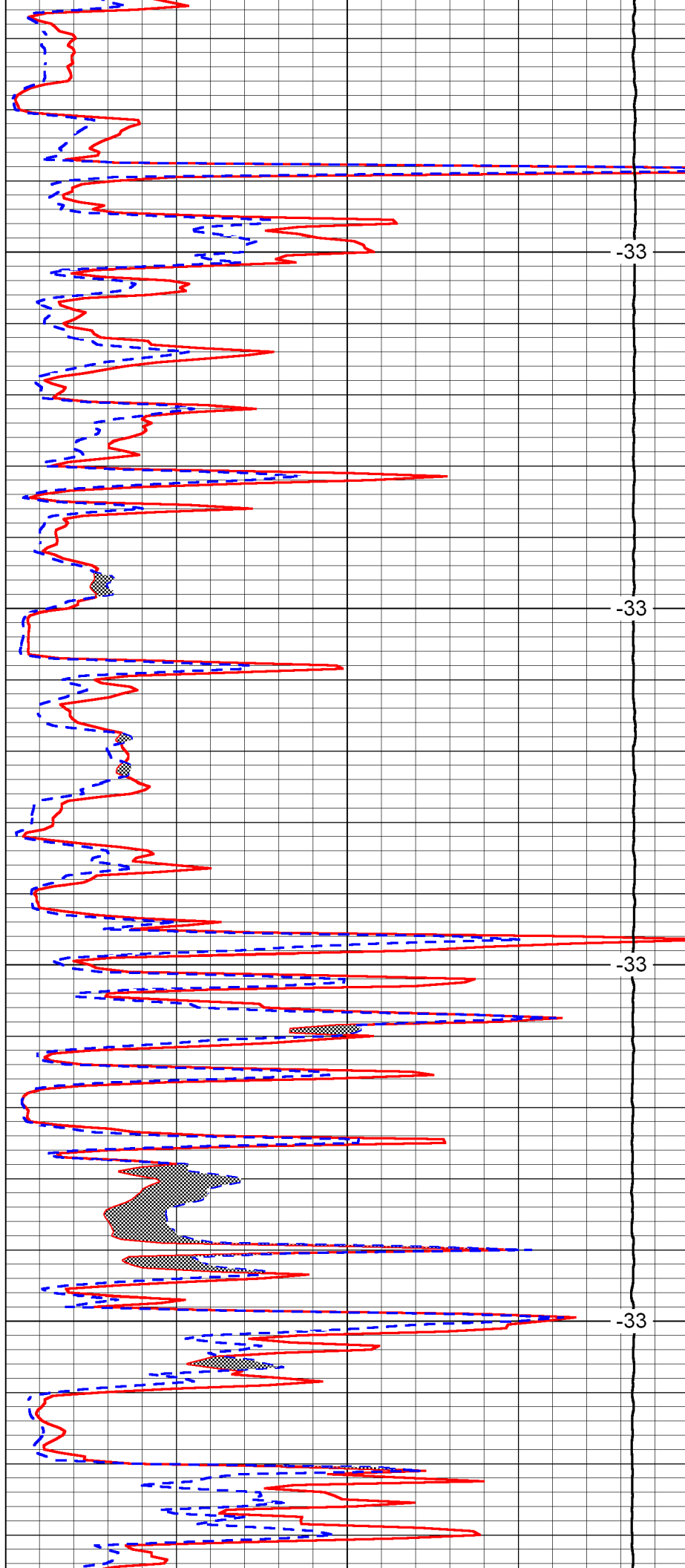


2750

2800

2850

2900

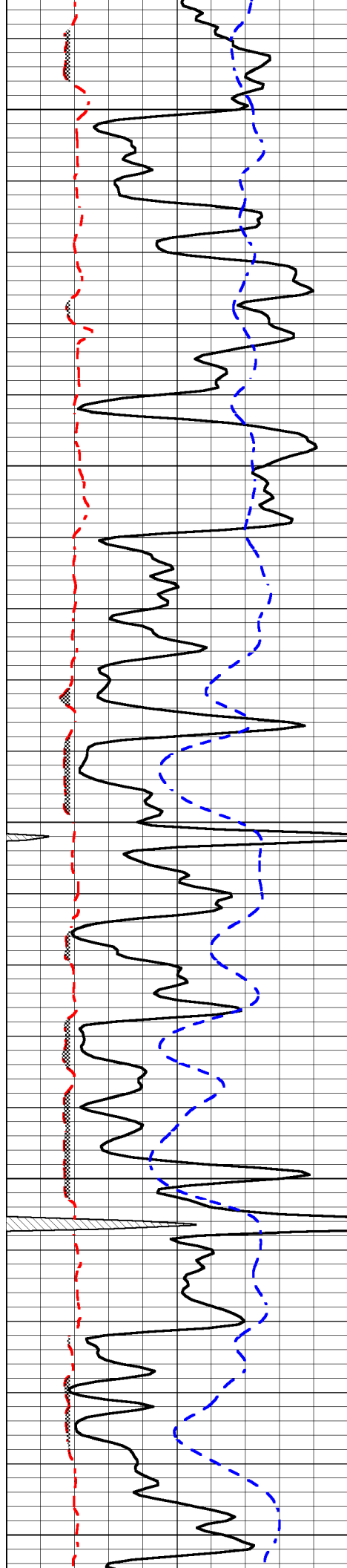


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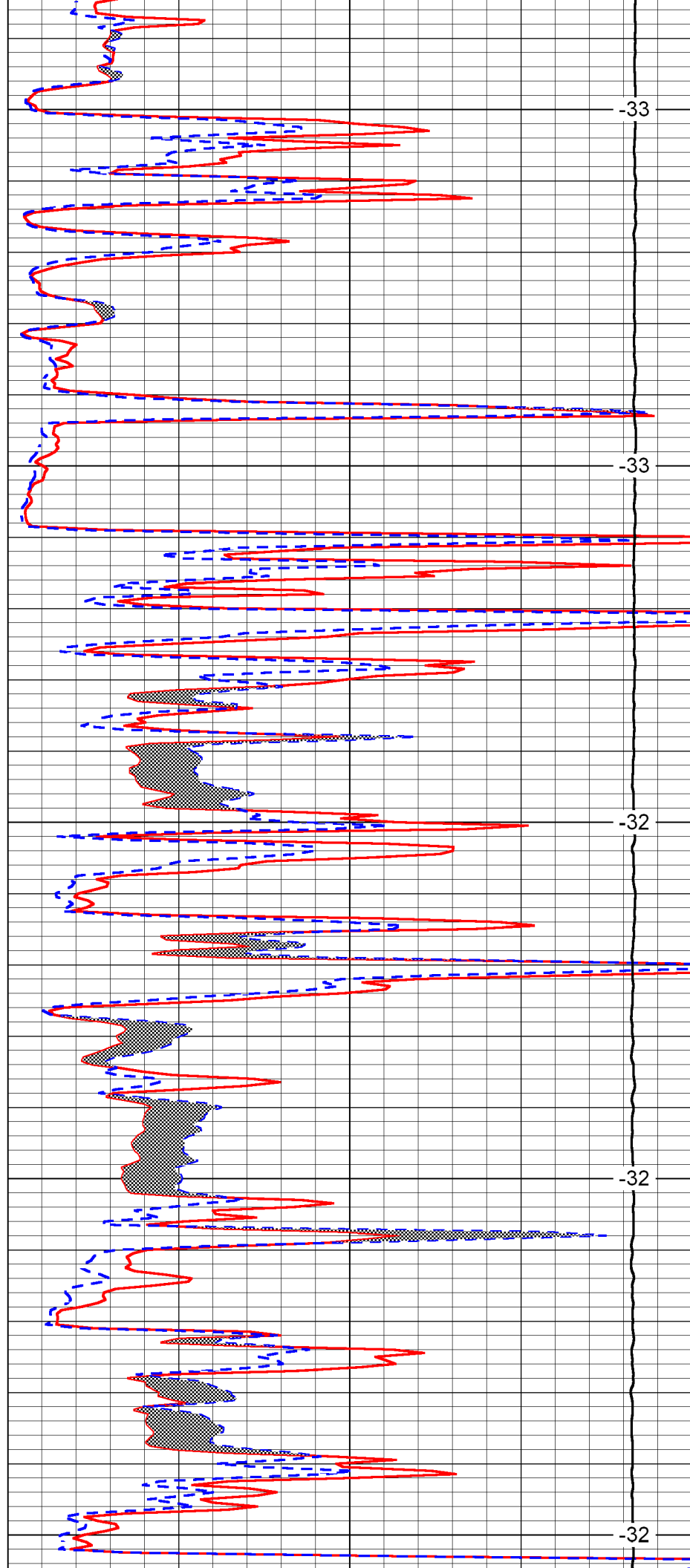
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3000

3050

3100

3150



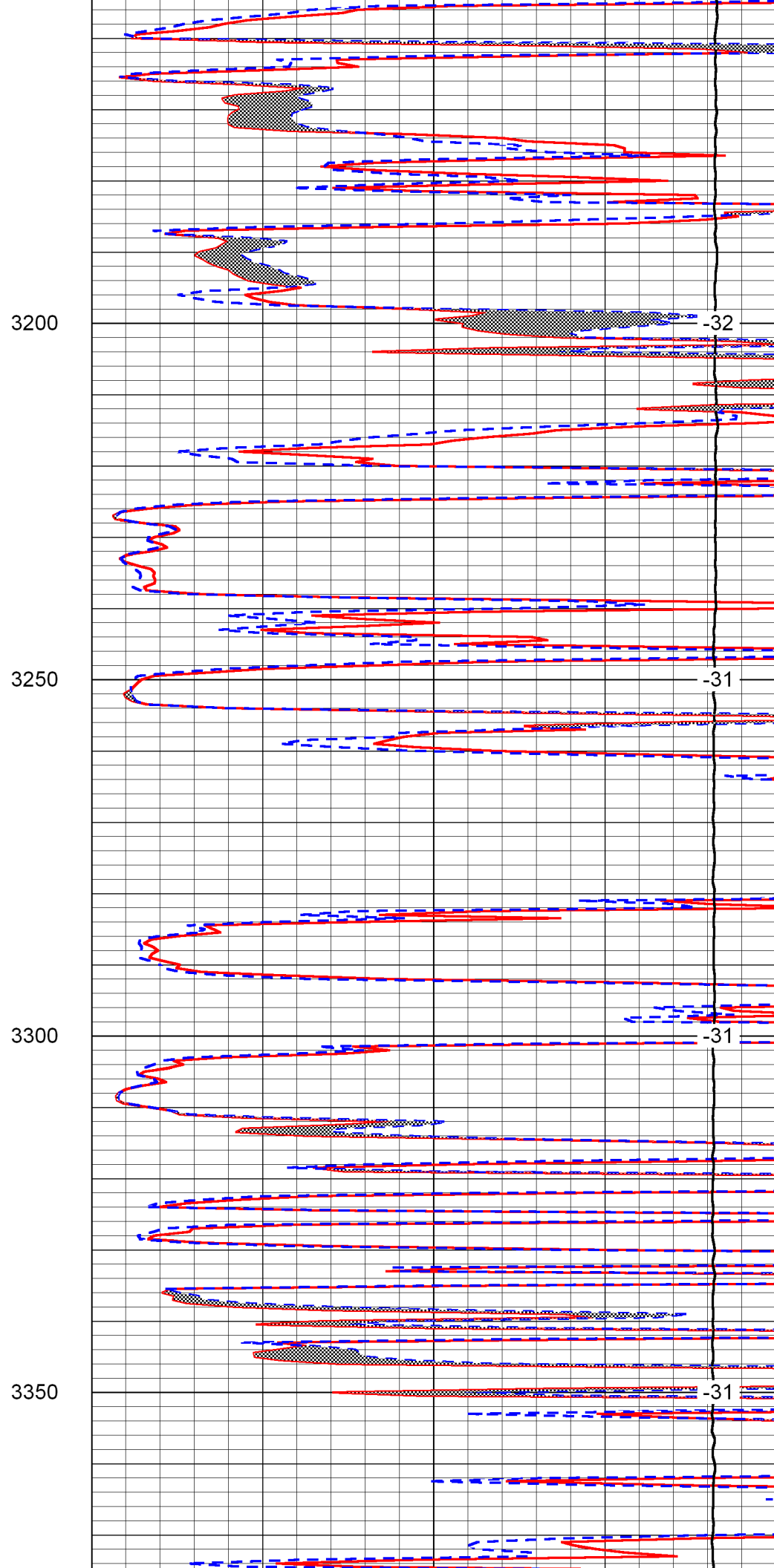
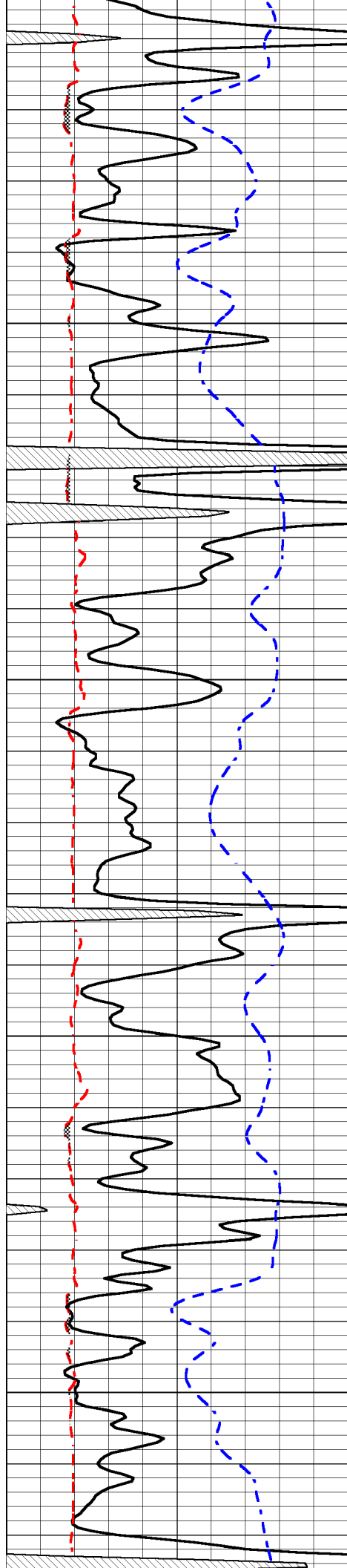
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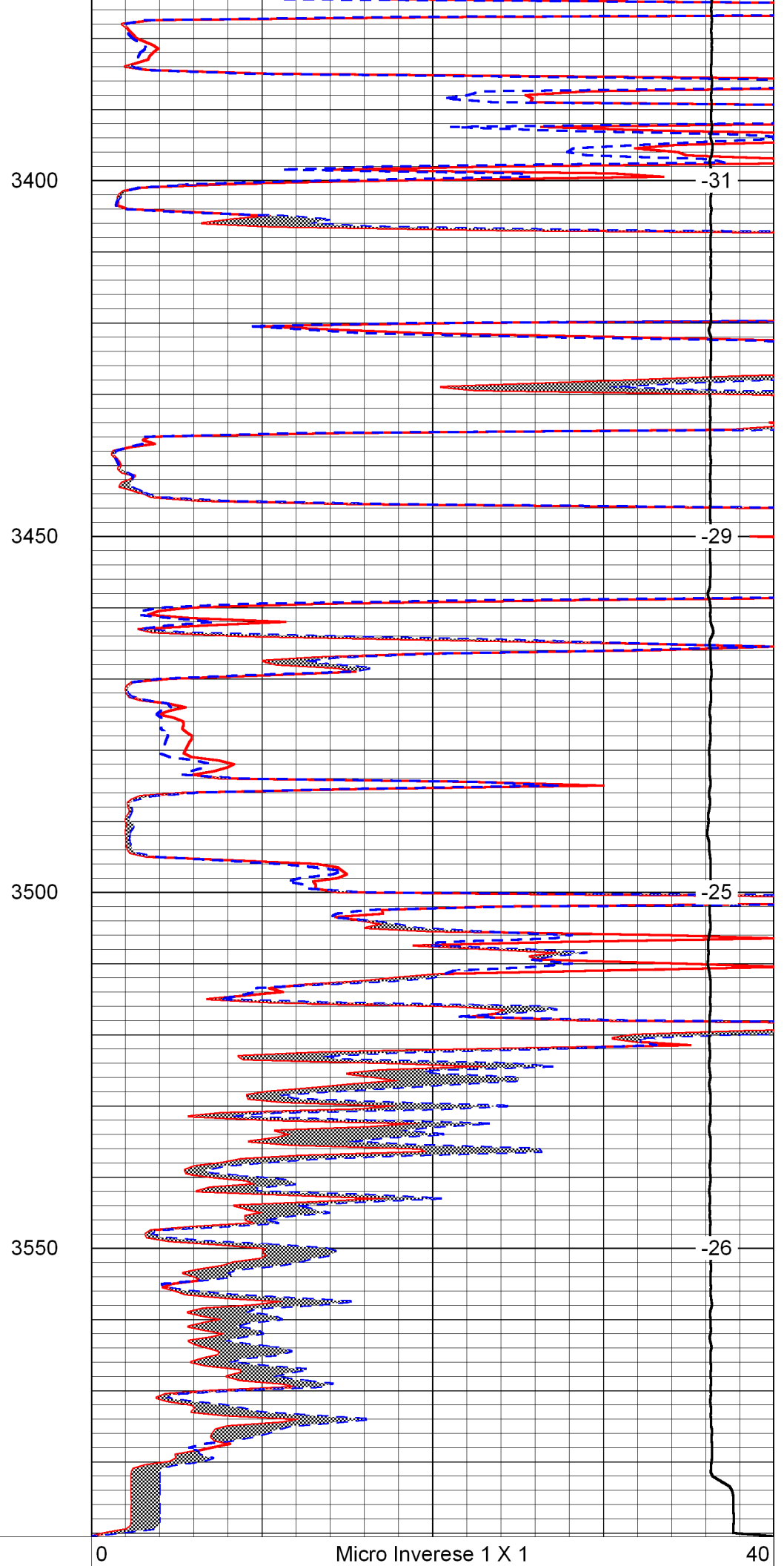
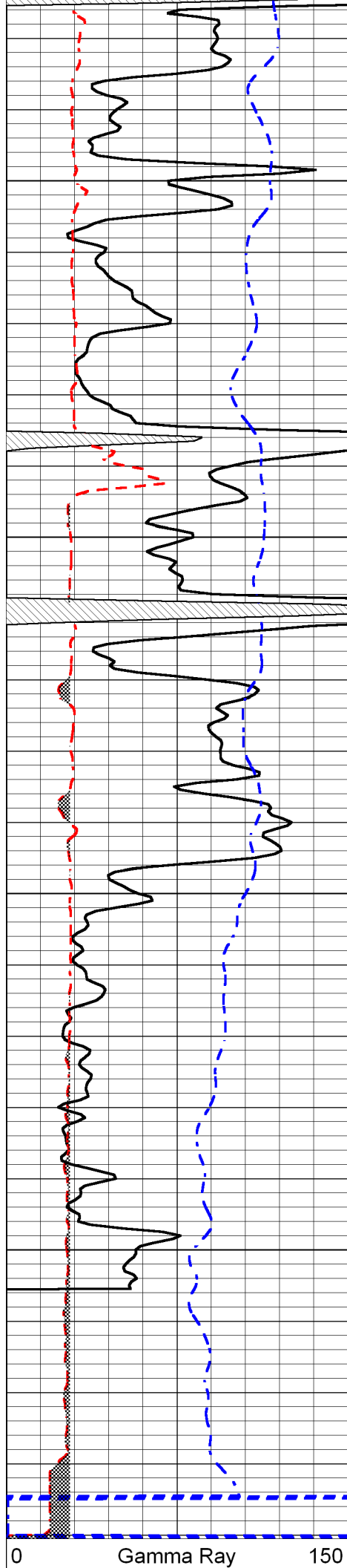
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-32

-32

-32





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