

PIONEER
Pioneer Energy Services

**MICRORESISTIVITY
LOG**

Company VAL ENERGY, INC.
Well JOHN "A" NO. 2-20
Field UNKNOWN
County THOMAS
State KANSAS

Location: API #: 15-193-20958-00-00
336' FEL & 828' FNL
SEC 20 TWP 8S RGE 35W
Permanent Datum GROUND LEVEL Elevation 3315'
Log Measured From KELLY BUSHING
Drilling Measured From KELLY BUSHING
Other Services
CNL/CDL
DIL
Elevation
K.B. 3320'
D.F. N/A
G.L. 3315'

Date	9/22/15		
Run Number	TWO		
Depth Driller	4870'		
Depth Logger	4868'		
Bottom Logged Interval	4867'		
Top Log Interval	3500'		
Casing Driller	266' @ 8.625"		
Casing Logger	264'		
Bit Size	7.875"		
Type Fluid in Hole	CHEMICAL		
Salinity, ppm CL	6,500		
Density / Viscosity	9.1 57		
pH / Fluid Loss	10.0 9.6		
Source of Sample	Flowline		
Rm @ Meas. Temp	.32 @ 76		
Rmt @ Meas. Temp	.24 @ 76		
Rmc @ Meas. Temp	.43 @ 76		
Source of Rmt / Rmc	Charts		
Rm @ BHT	.20 @ 125		
Operating Rig Time	3 1/2 HOURS		
Max Rec. Temp. F	125		
Equipment Number	108		
Location	Hays		
Recorded By	J. HENRICKSON		
Witnessed By	HARLEY SAYLES		

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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.

LEVANT EXIT ON I70
1 SOUTH, 2 WEST, 1/4 SOUTH, WEST INTO

Log Measured From: KELLY BUSHING
5 Ft. Above Permanent Datum

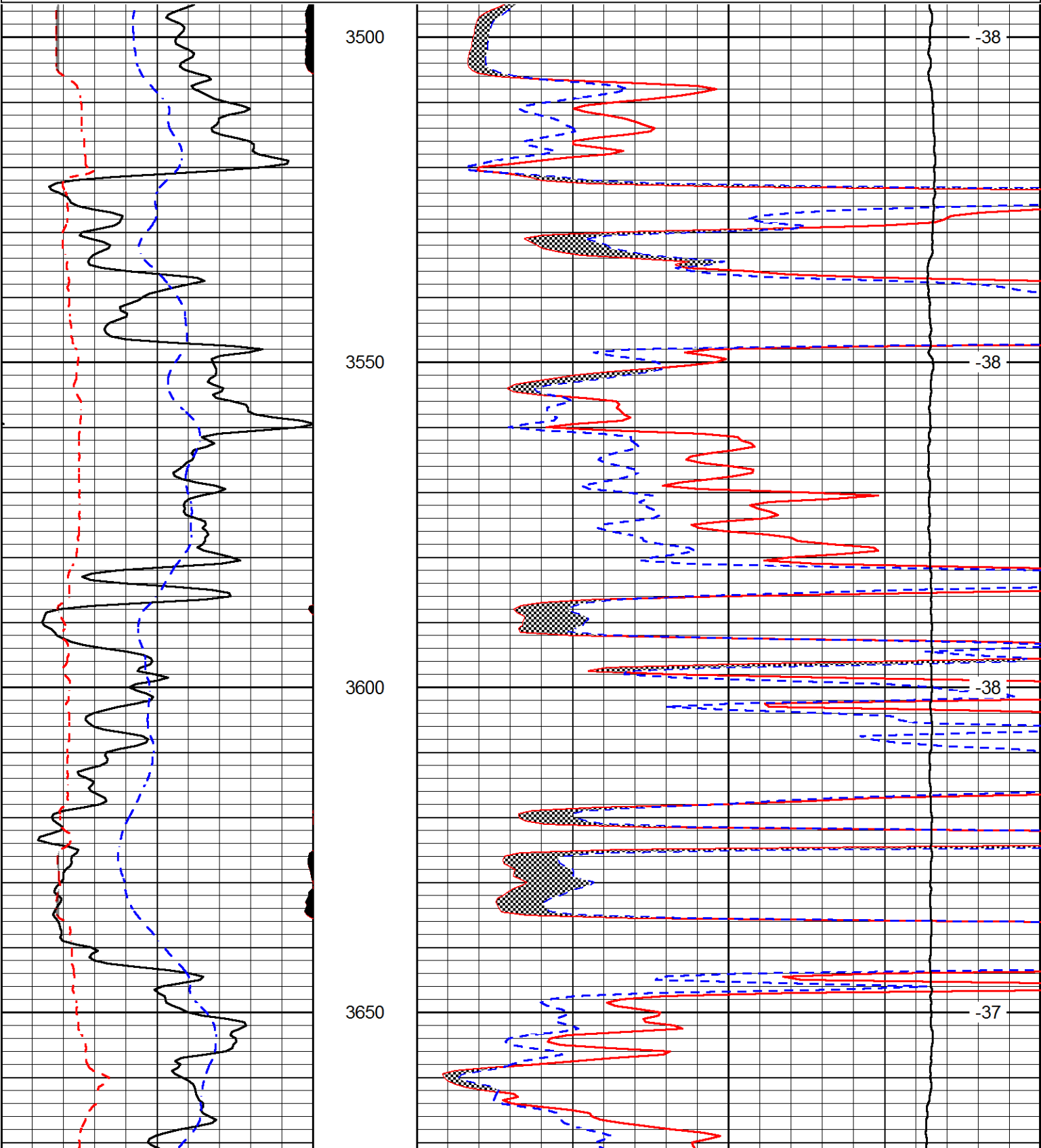
THANK YOU FOR USING PIONEER ENERGY SERVICES
www.pioneerres.com 785-625-3858

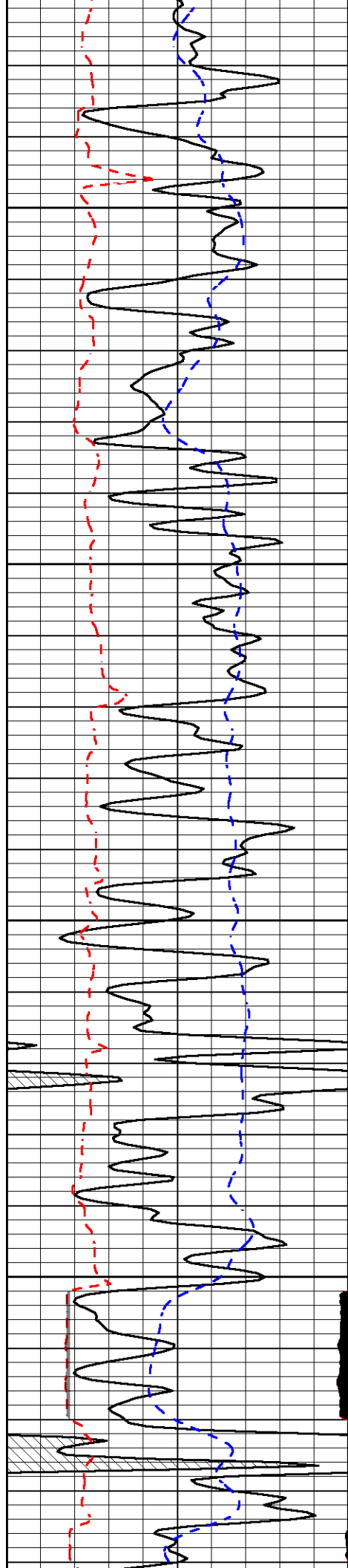
Your Pioneer Energy Services Crew
Engineer: J. HENRICKSON
Operator:
Operator:
Operator:

This Log Record Was Witnessed By
Primary Witness: HARLEY SAYLES
Secondary Witness:
Secondary Witness:
Secondary Witness:

Database File	val_john_a_2_20hd.db
Dataset Pathname	DIL/valstkml
Presentation Format	micro
Dataset Creation	Tue Sep 22 22:23:09 2015
Charted by	Depth in Feet scaled 1:240

0	Gamma Ray (GAPI)	150	0	Micro Inverese 1 X 1 (Ohm-m)	40
6	MCAL (in)	16	0	Micro Normal 2" (Ohm-m)	40
2.875	Mud Cake (in)	7.875	10000	Line Weight (lb)	0
-200	SP (mV)	0			LSPD (ft/min)



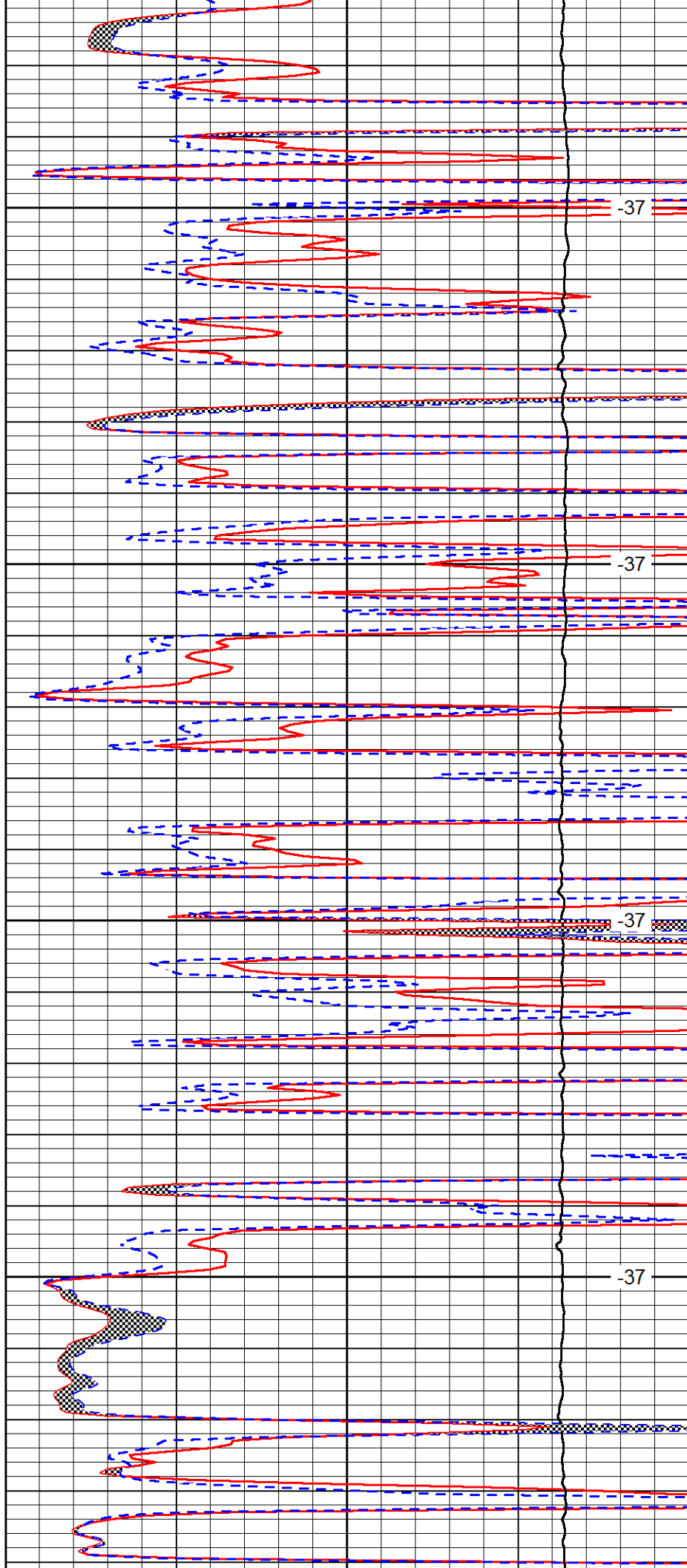


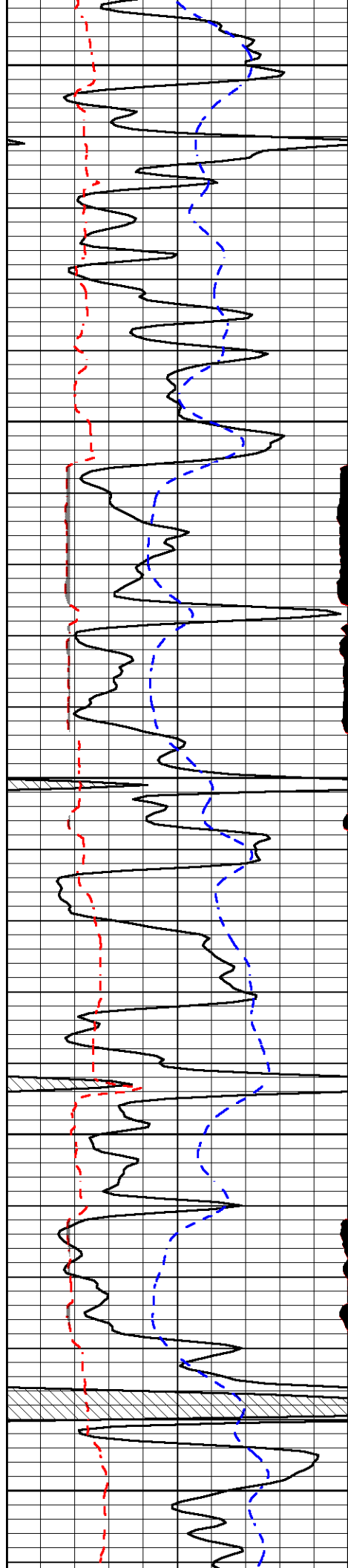
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3750

3800

3850





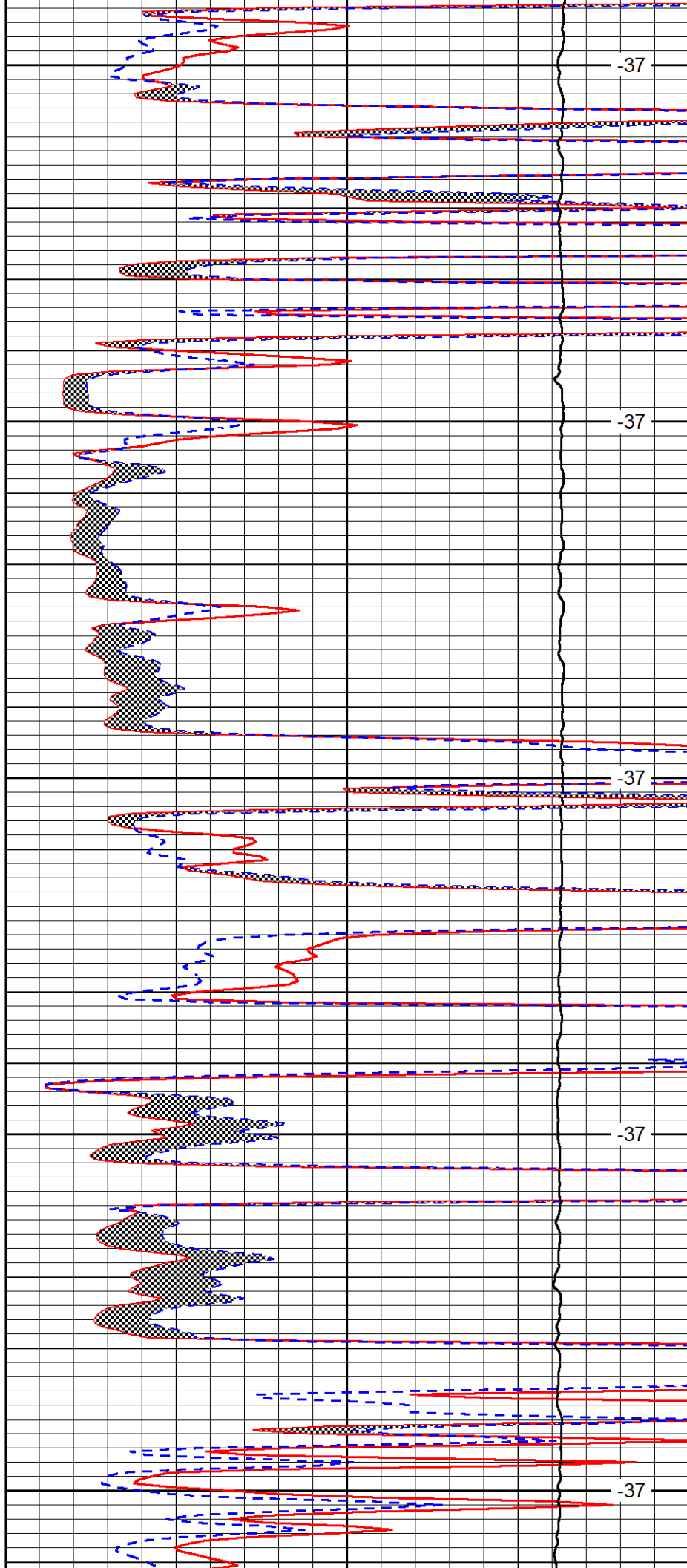
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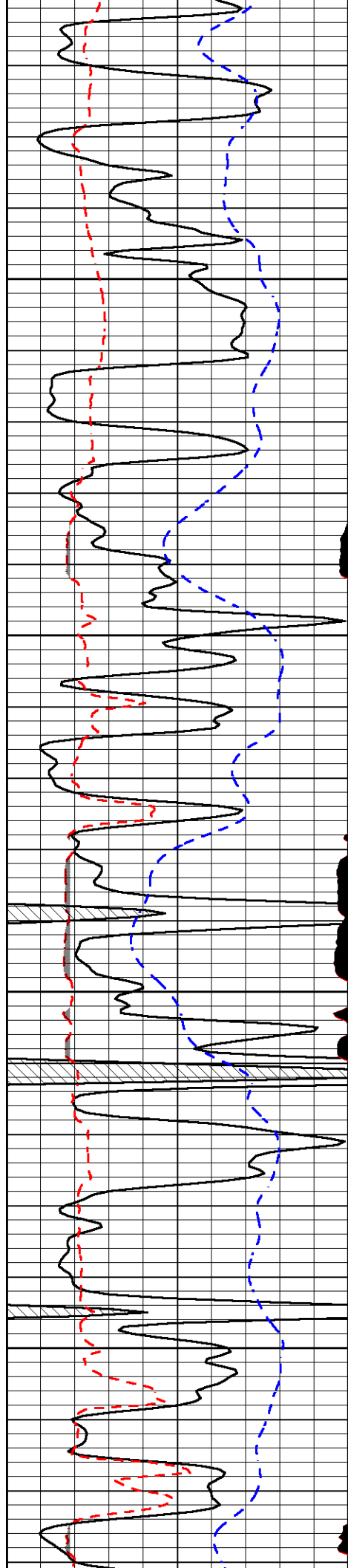
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4000

4050

4100



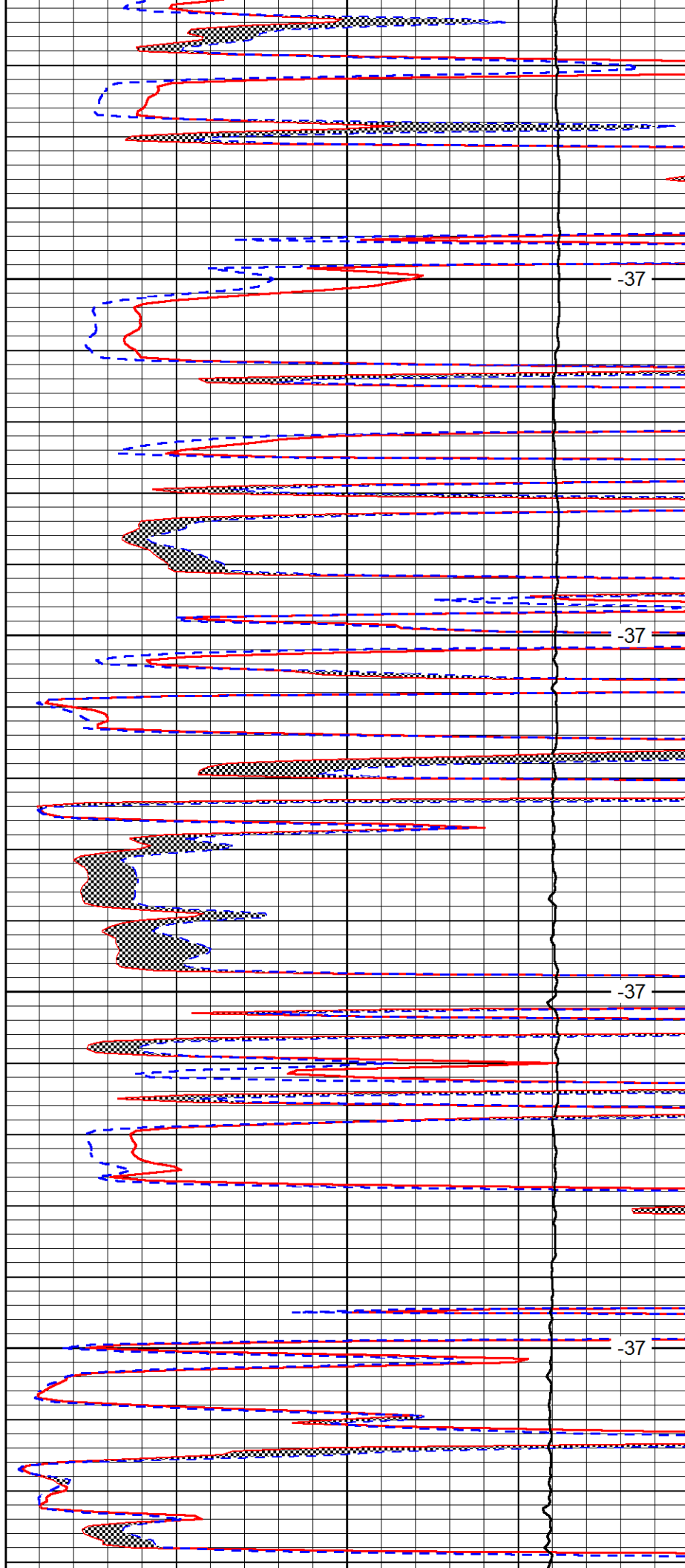


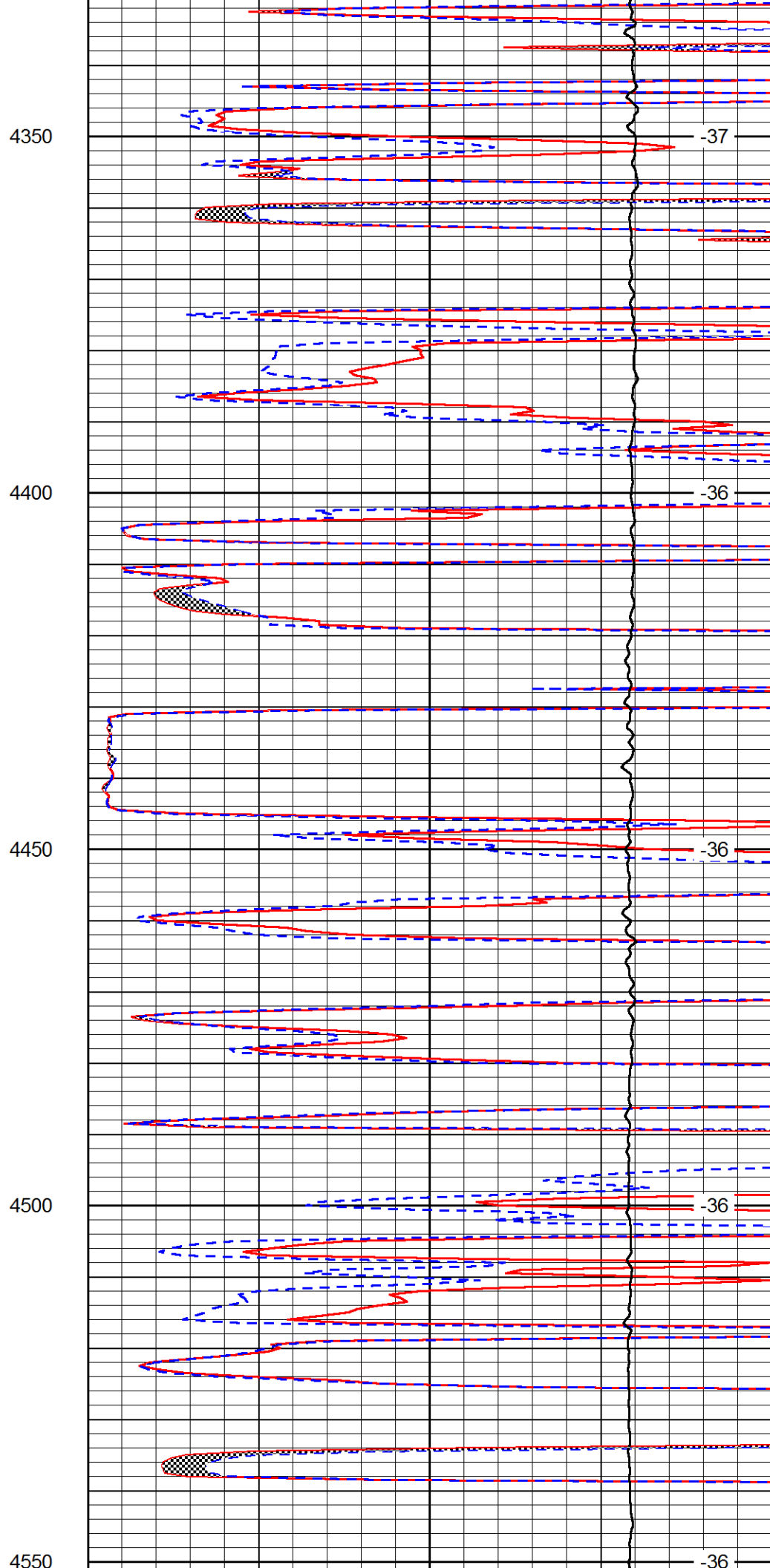
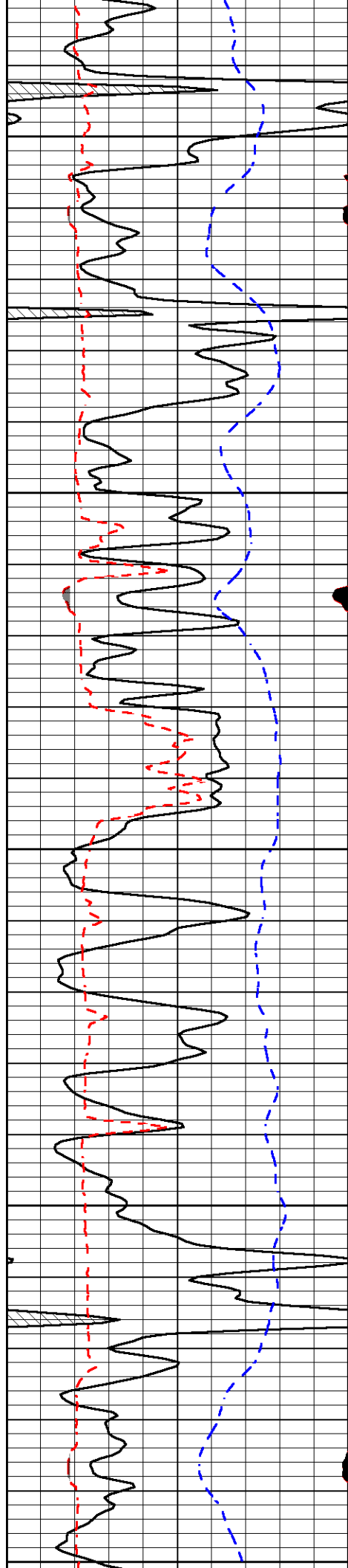
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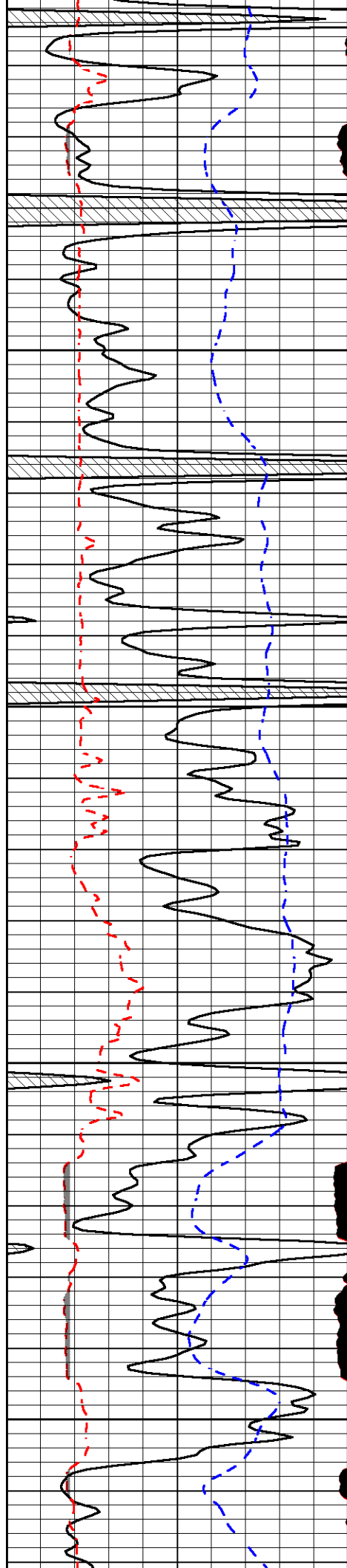
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4250

4300





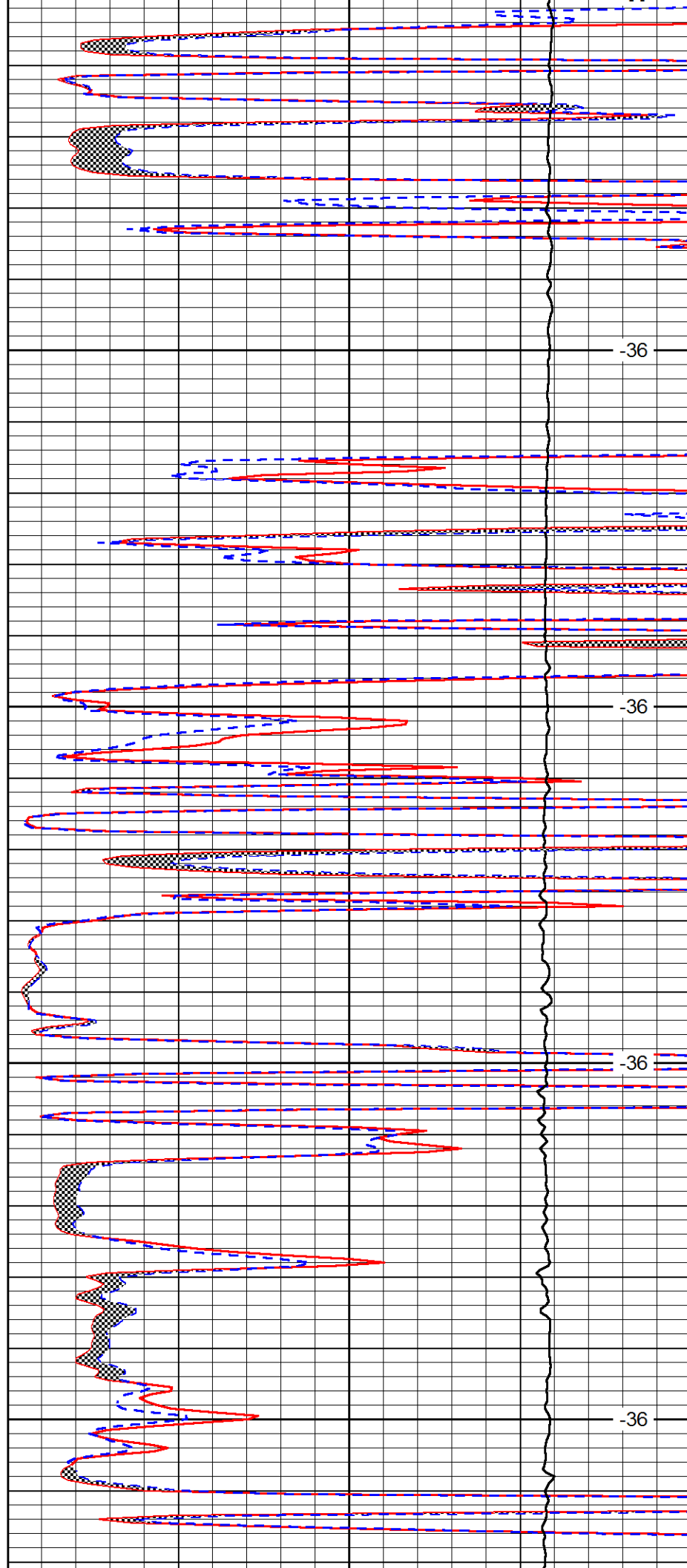


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4650

4700

4750

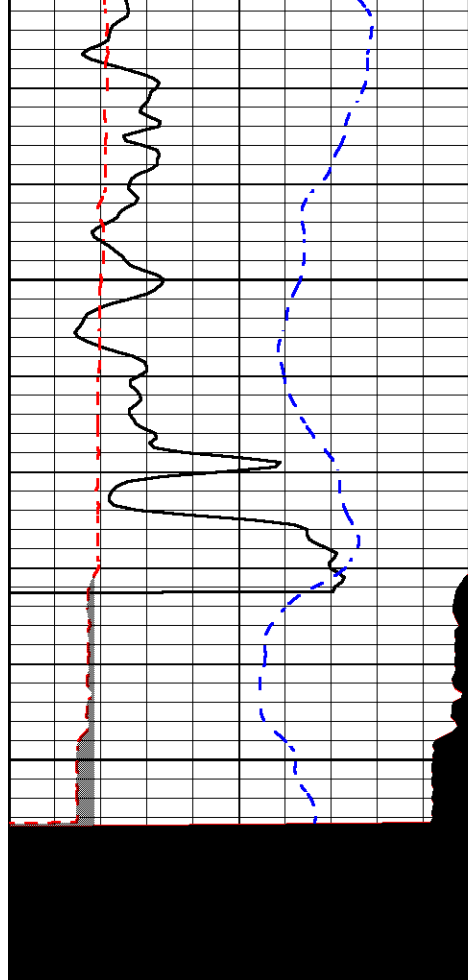


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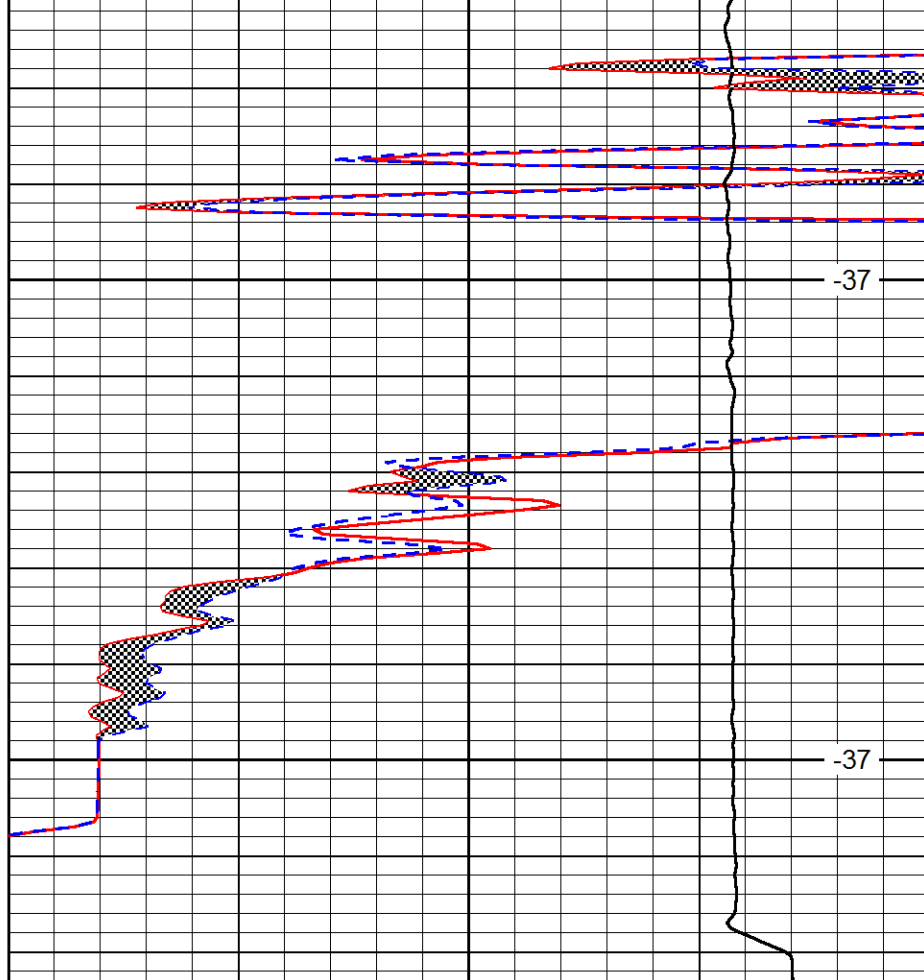
-36



0	Gamma Ray (GAPI)	150
6	MCAL (in)	16
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-200	SP (mV)	0

4800

4850



0	Micro Inverse 1 X 1 (Ohm-m)	40
0	Micro Normal 2" (Ohm-m)	40
10000	Line Weight (lb)	0

LSPD
(ft/min)