



DUAL INDUCTION LOG

Company	CASTLE RESOURCES, INC.		
Well	MOORE #1		
Field	WILDCAT		
County	PAWNEE	State	KANSAS
Location:	API # : 15-145-21840-0000		Other Services CDL/CNL
1320' FNL & 380' FWL			
SEC 34 TWP 20S RGE 18W		Elevation	
Permanent Datum	GROUND LEVEL	Elevation	2156
Log Measured From	KELLY BUSHING 5' A.G.L.	D.F.	2159
Drilling Measured From	KELLY BUSHING	G.L.	2156
Date	11/4/18		
Run Number	ONE		
Depth Driller	4120		
Depth Logger	4120		
Bottom Logged Interval	4118		
Top Log Interval	00		
Casing Driller	8 5/8" @ 441'		
Casing Logger	441		
Bit Size	7 7/8"		
Type Fluid in Hole	CHEMICAL MUD	CHLORIDES 15000 PPM	
Density / Viscosity	9.0/48		
pH / Fluid Loss	9.7/14.0		
Source of Sample	FLOWLINE		
Rm @ Meas. Temp	.35 @ 75F		
Rmf @ Meas. Temp	.26 @ 75F		
Rmc @ Meas. Temp	.42 @ 75F		
Source of Rmf / Rmc	MEASUREMENT		
Rm @ BHT	.22 @ 117F		
Time Circulation Stopped	2 HOURS		
Time Logger on Bottom	////		
Maximum Recorded Temperature	117F		
Equipment Number	3802		
Location	HAYS, KANSAS		
Recorded By	JASON CAPPELLUCCI		
Witnessed By	JERRY GREEN		

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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 ELI WIRELINE SERVICES, HAYS, KS. (785) 628-6395
DIRECTIONS
HWY 183 & RUSH/PAWNEE COUNTY LINE - SOUTH TO U RD. - EAST & SOUTH INTO



MAIN SECTION

Database File: 3015ddn.db
Dataset Pathname: pass3.3
Presentation Format: _dil2
Dataset Creation: Mon Nov 05 01:44:34 2018 by Calc Open-Cased 090629
Charted by: Depth in Feet scaled 1:600

0	Gamma Ray (GAPI)	150
-100	SP (mV)	100

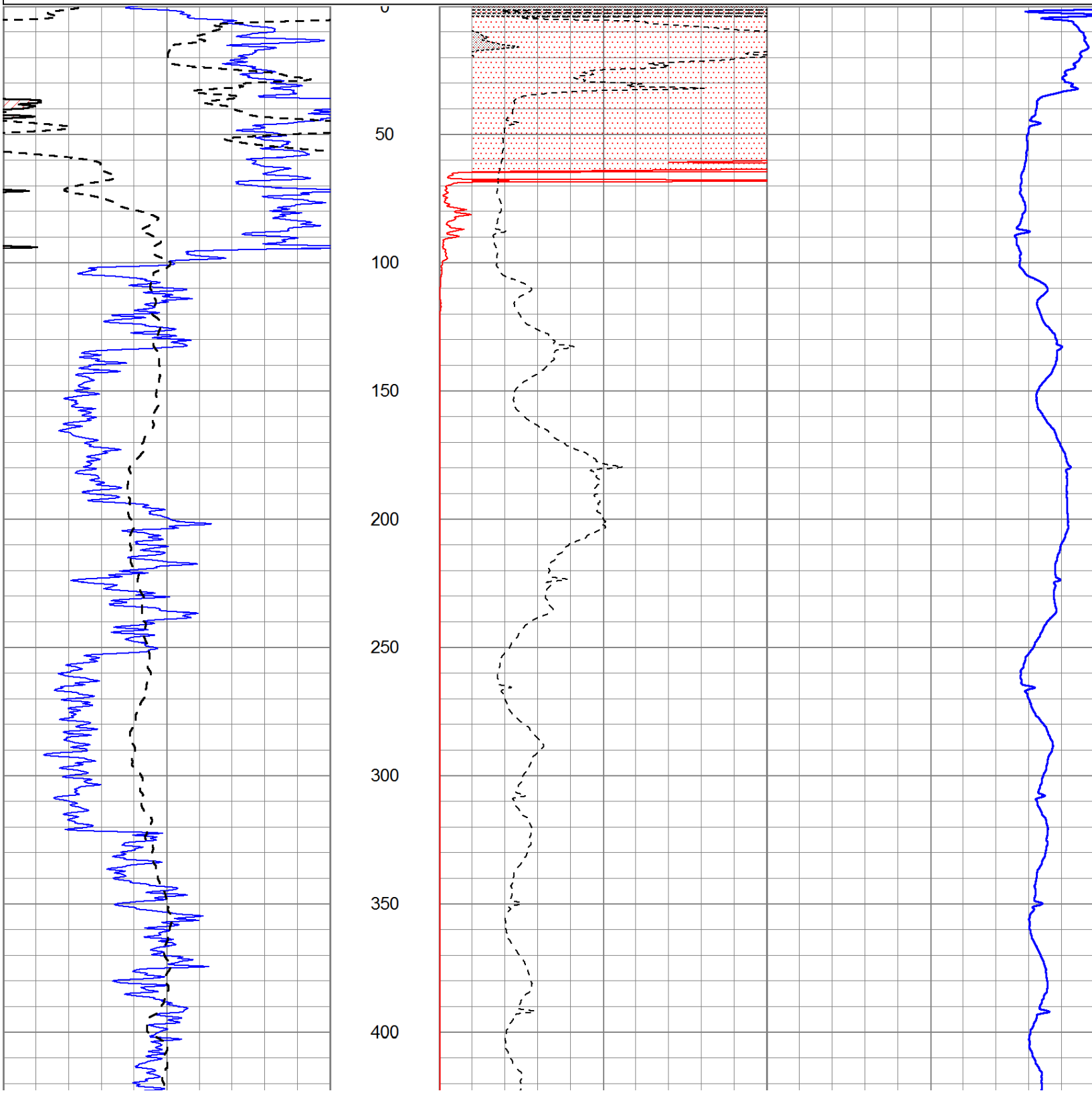
0	RLL3 (Ohm-m)	50
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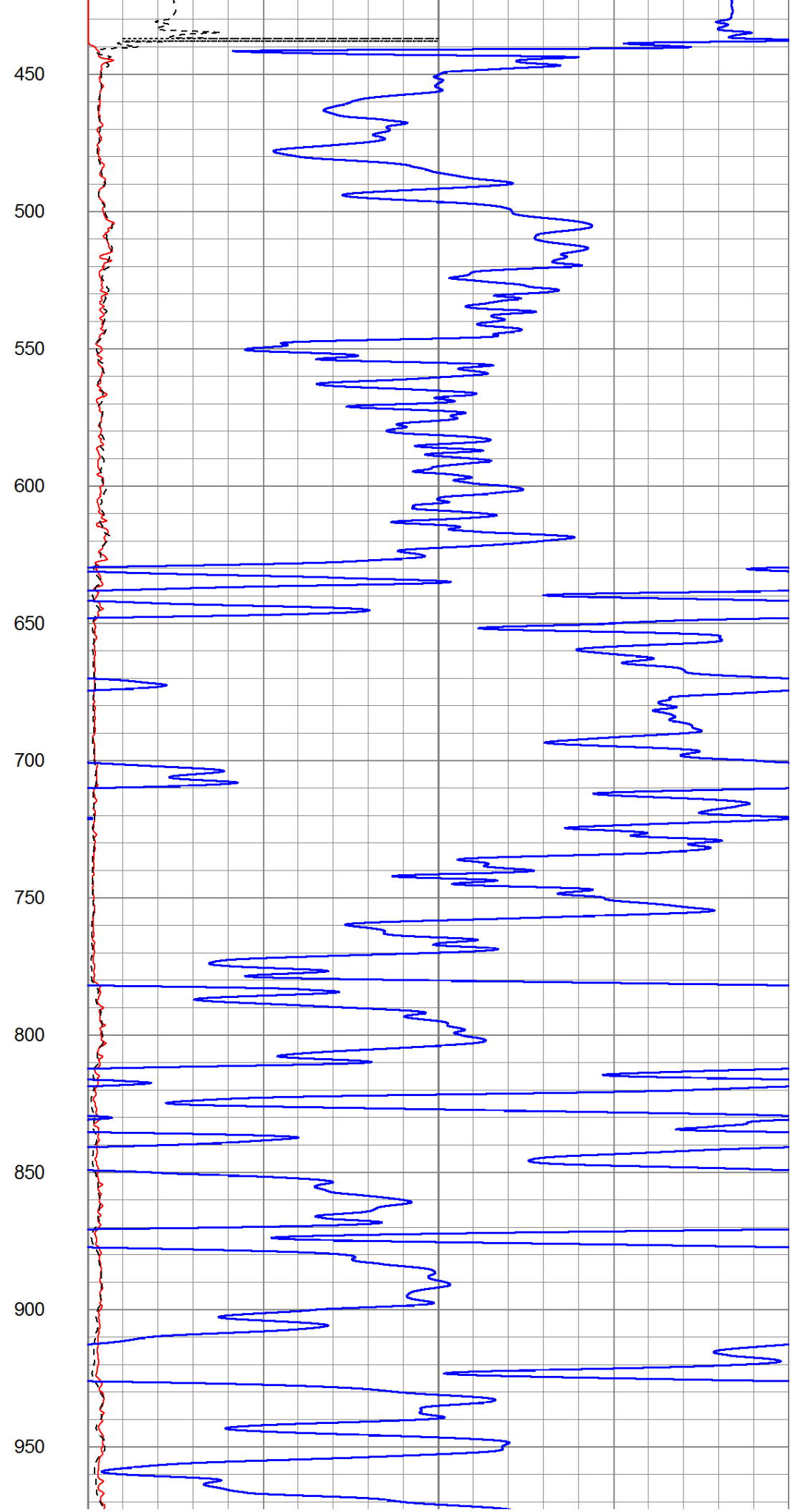
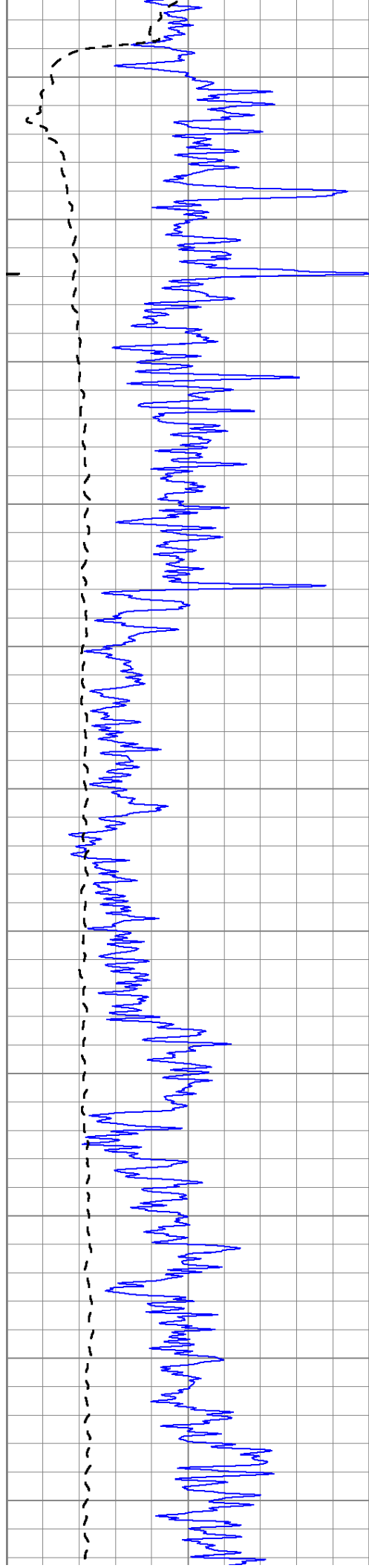
0	Deep Induction (Ohm-m)	50
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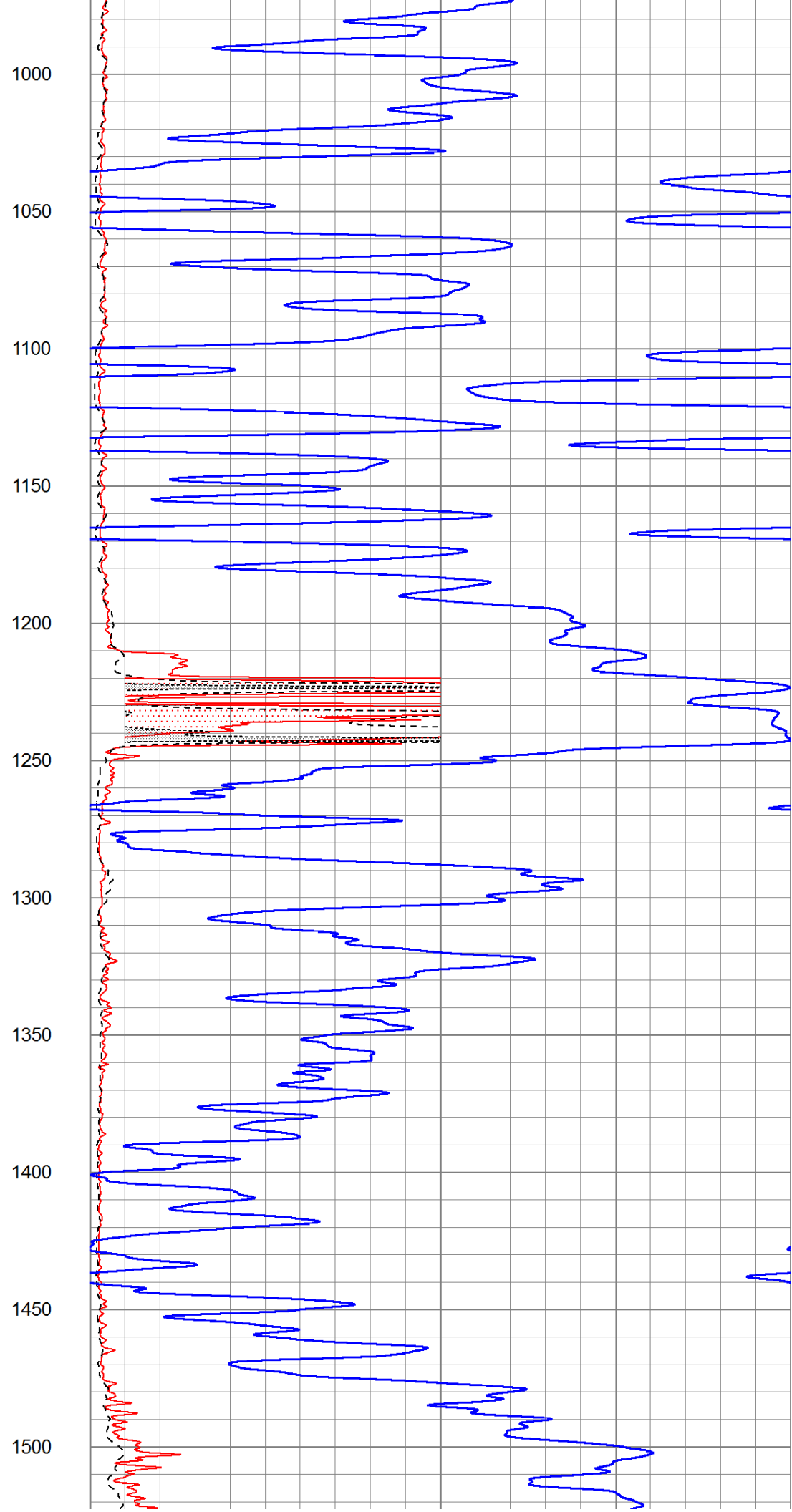
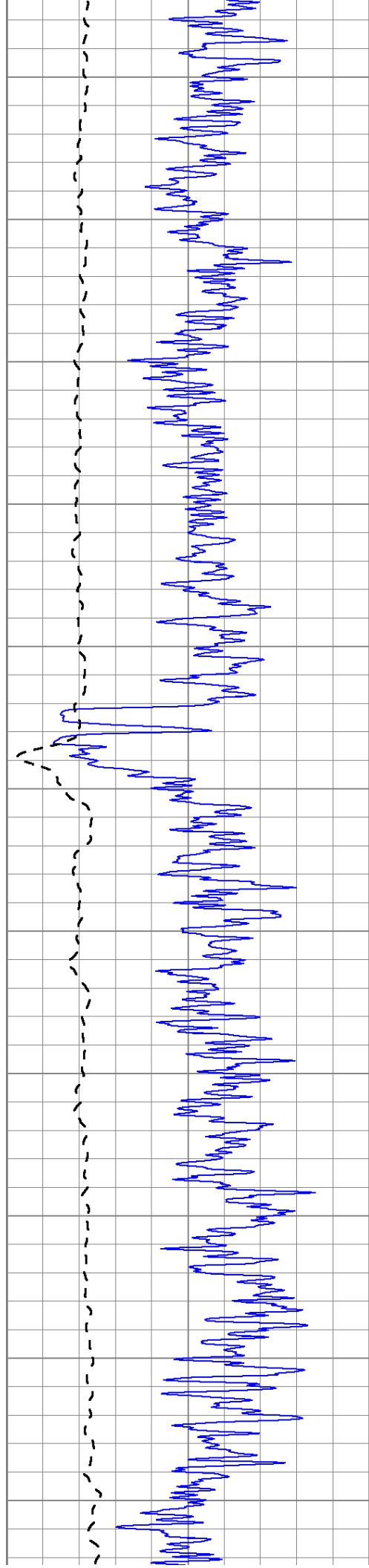
1000	CILD (mmho/m)	0
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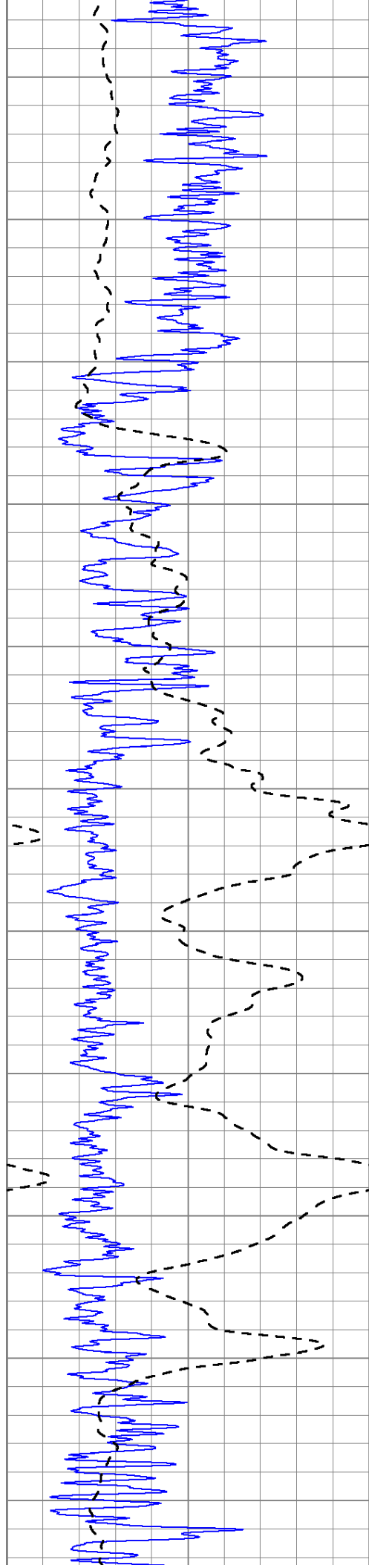
50	RILD X10 (Ohm-m)	500
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50	RLL3 X10 (Ohm-m)	500
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1550

1600

1650

1700

1750

1800

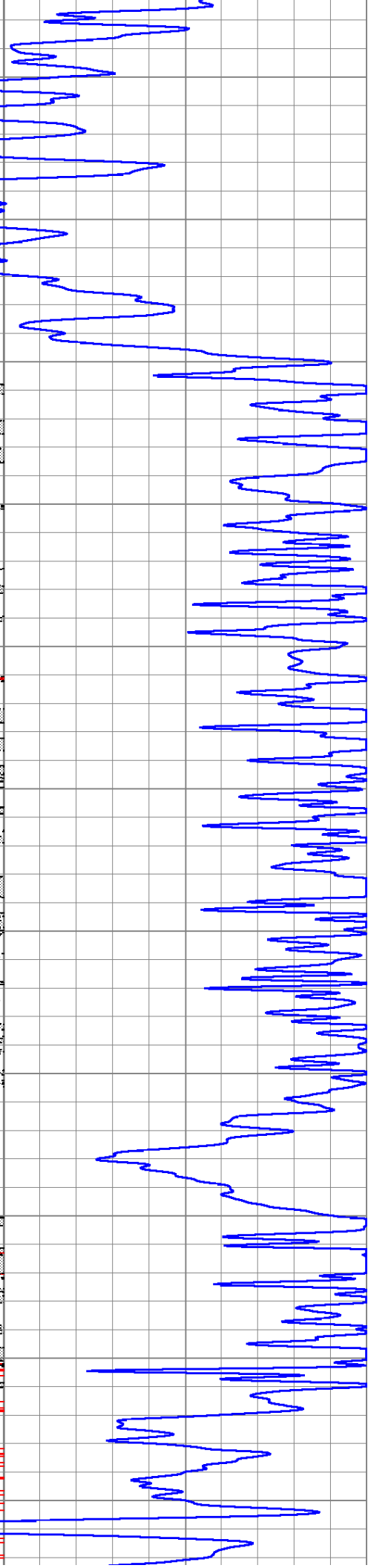
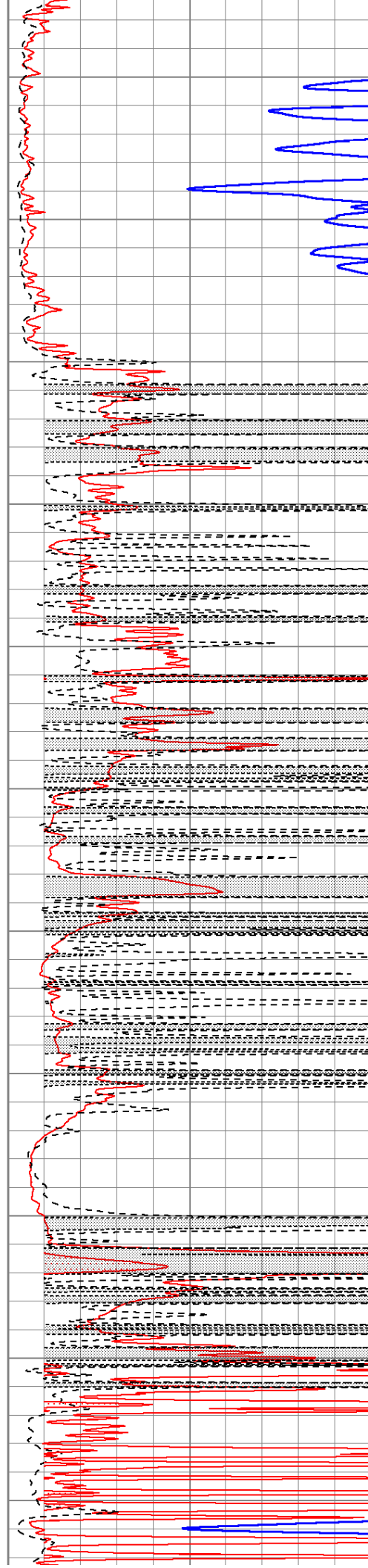
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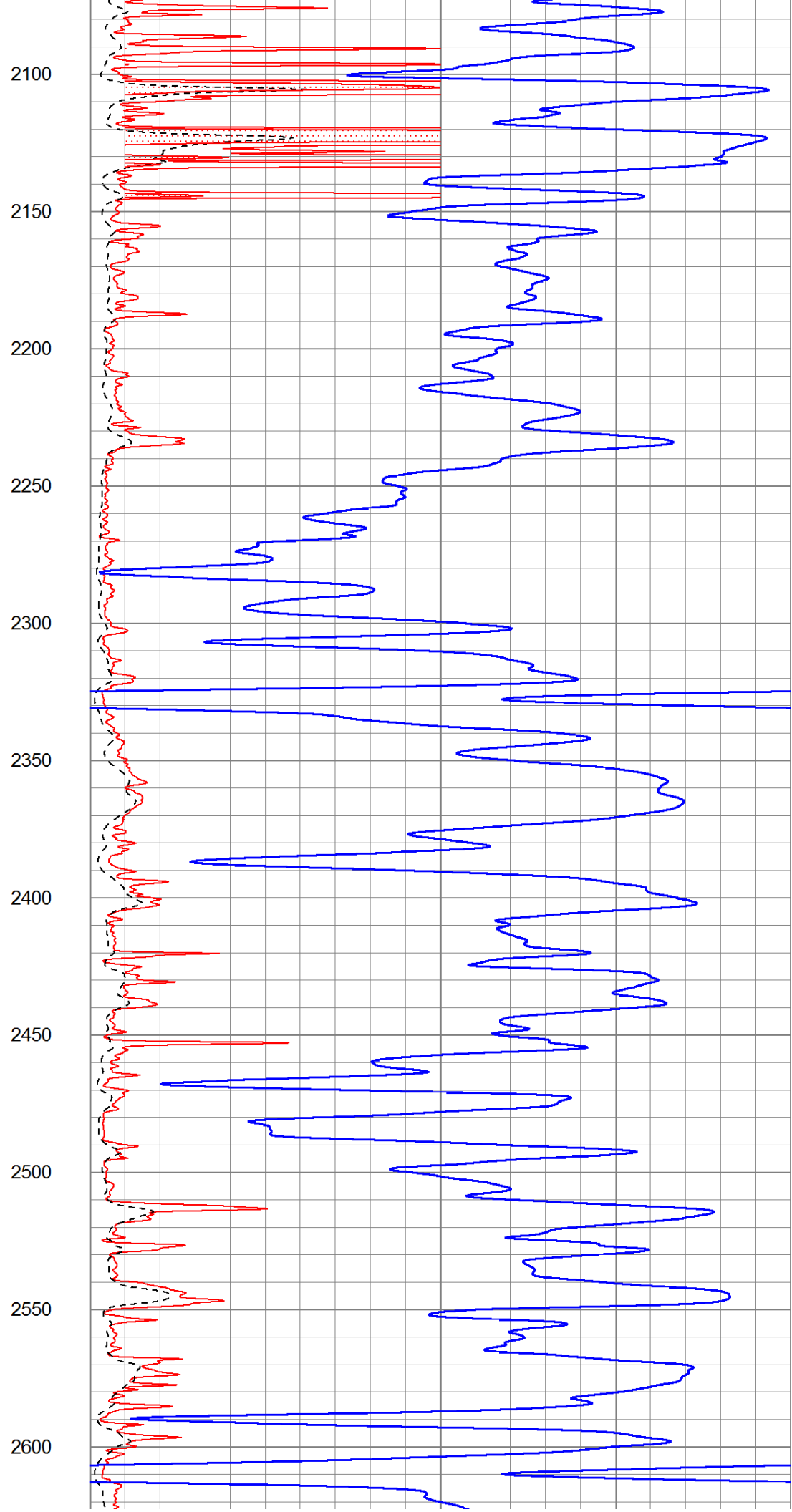
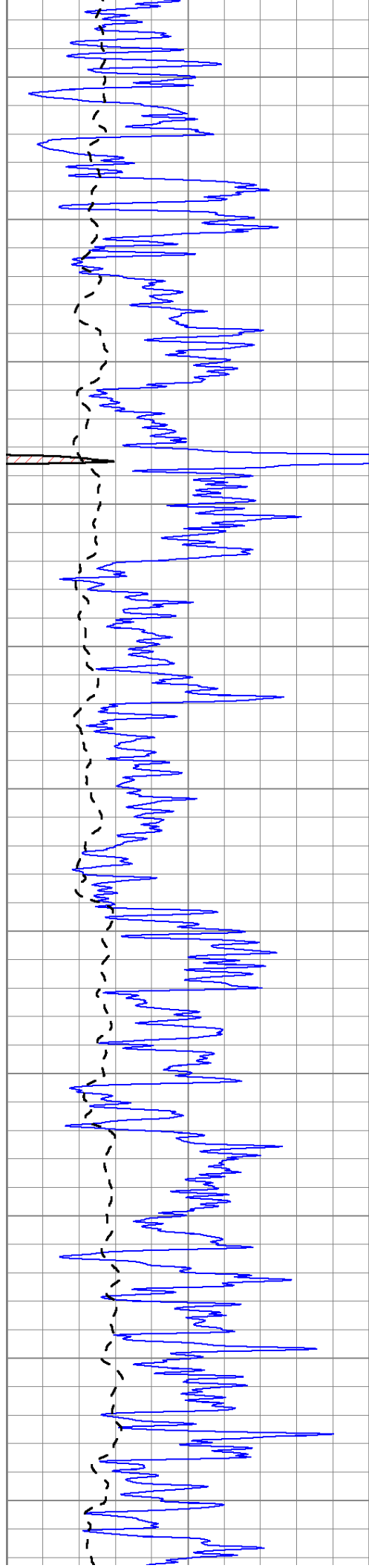
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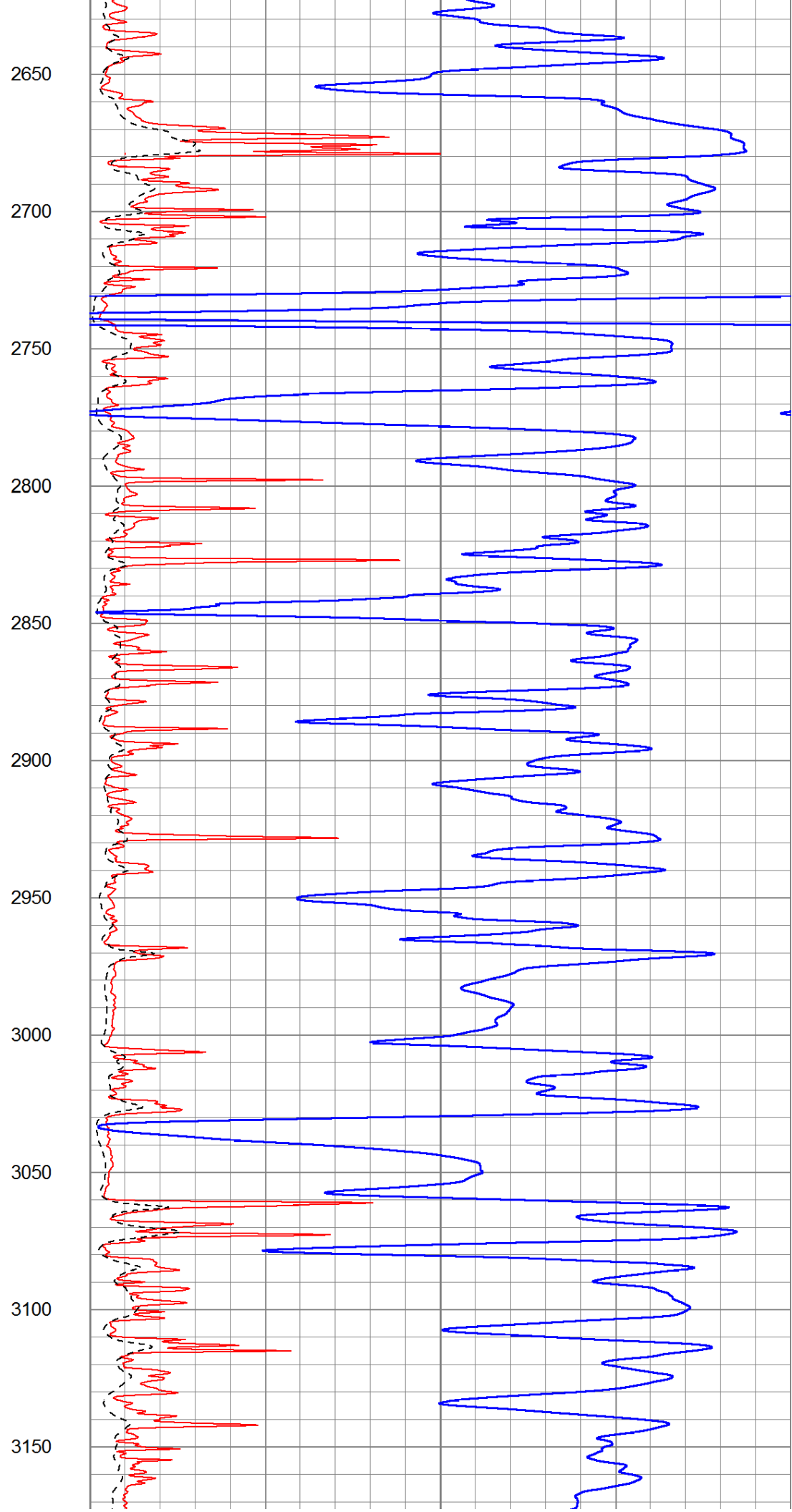
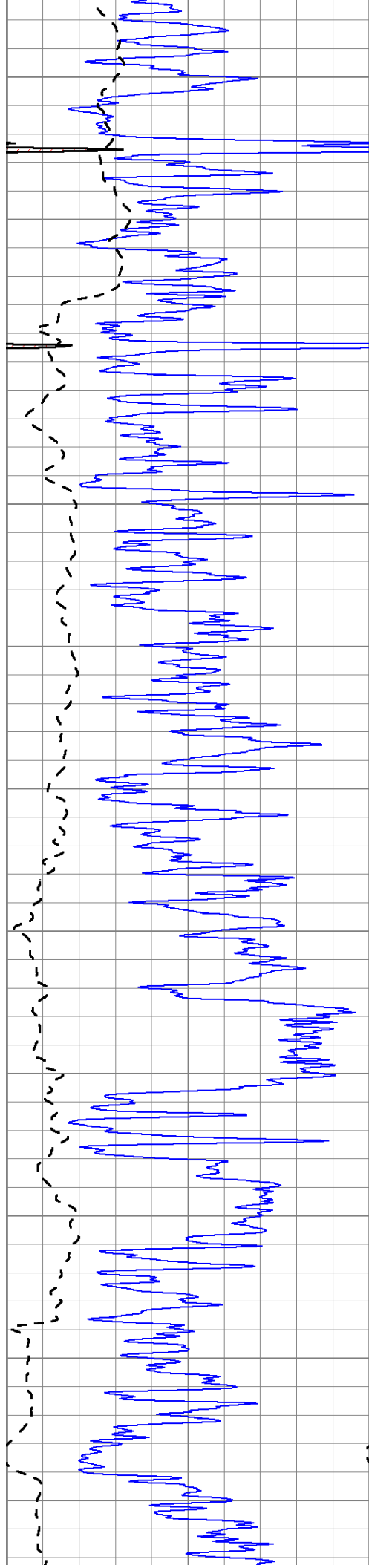
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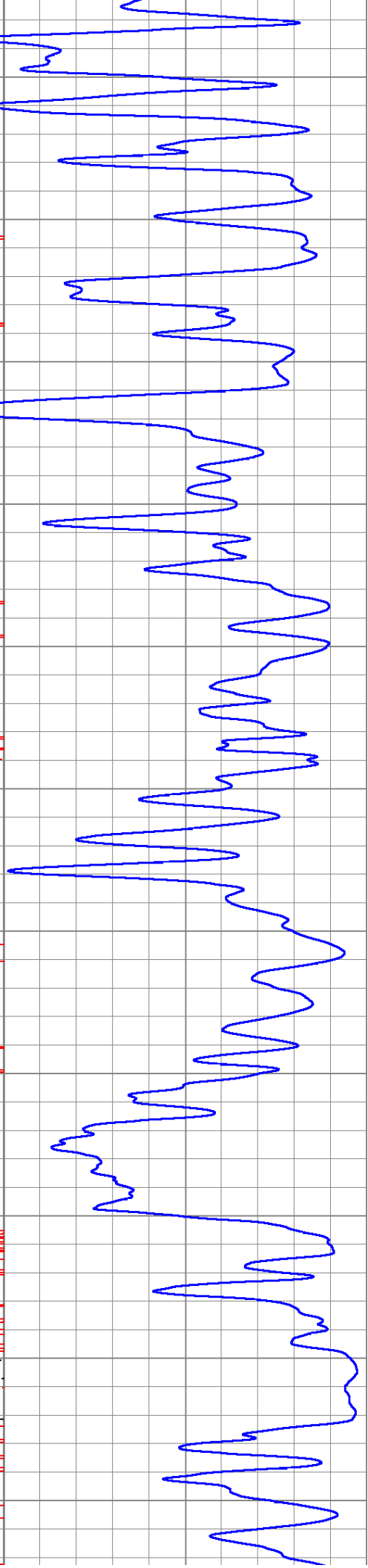
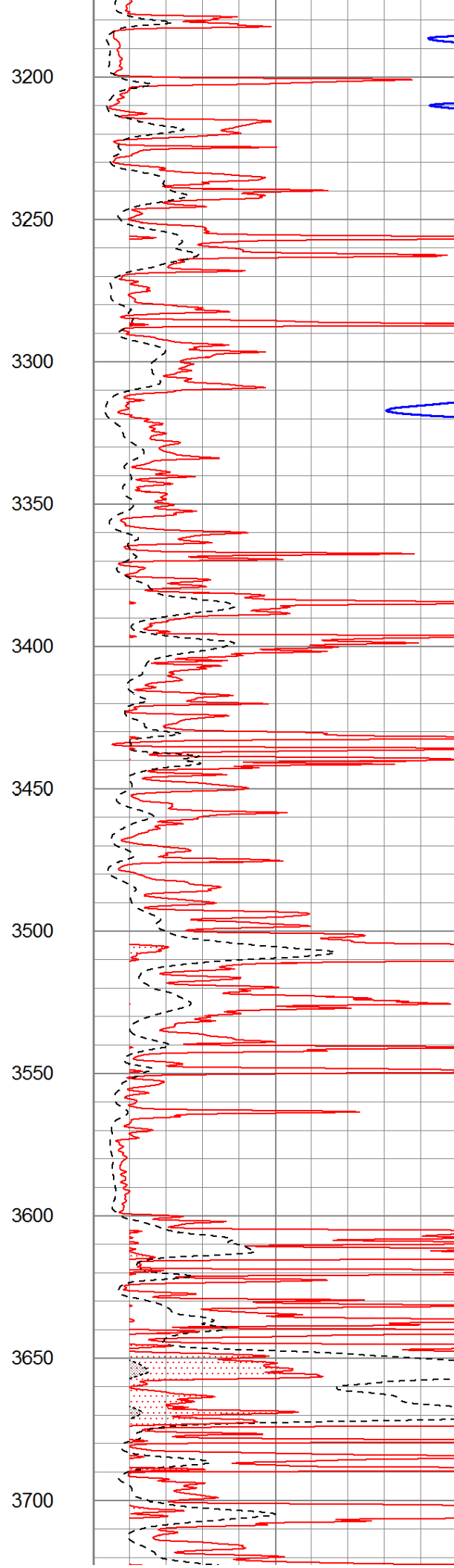
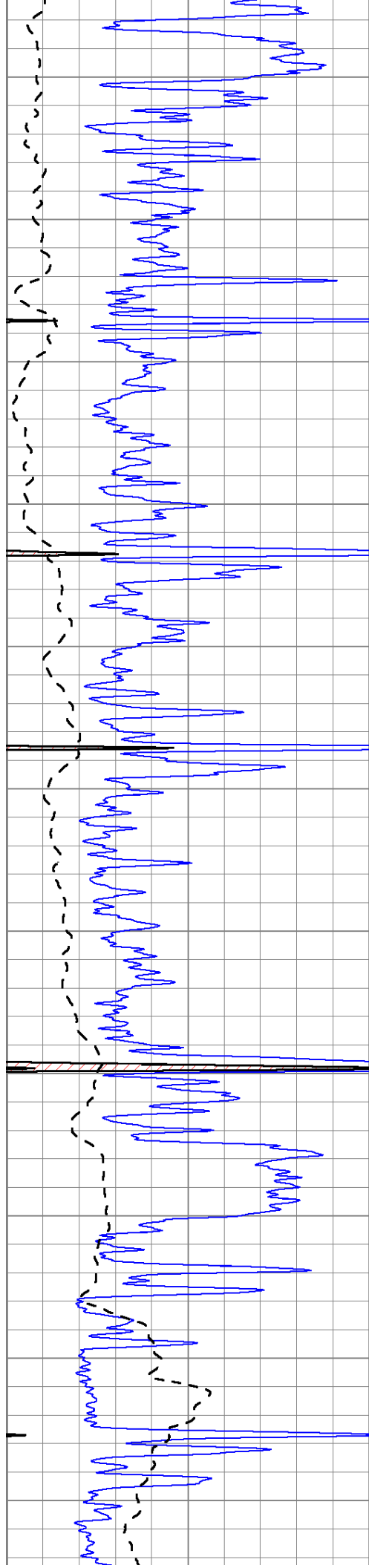
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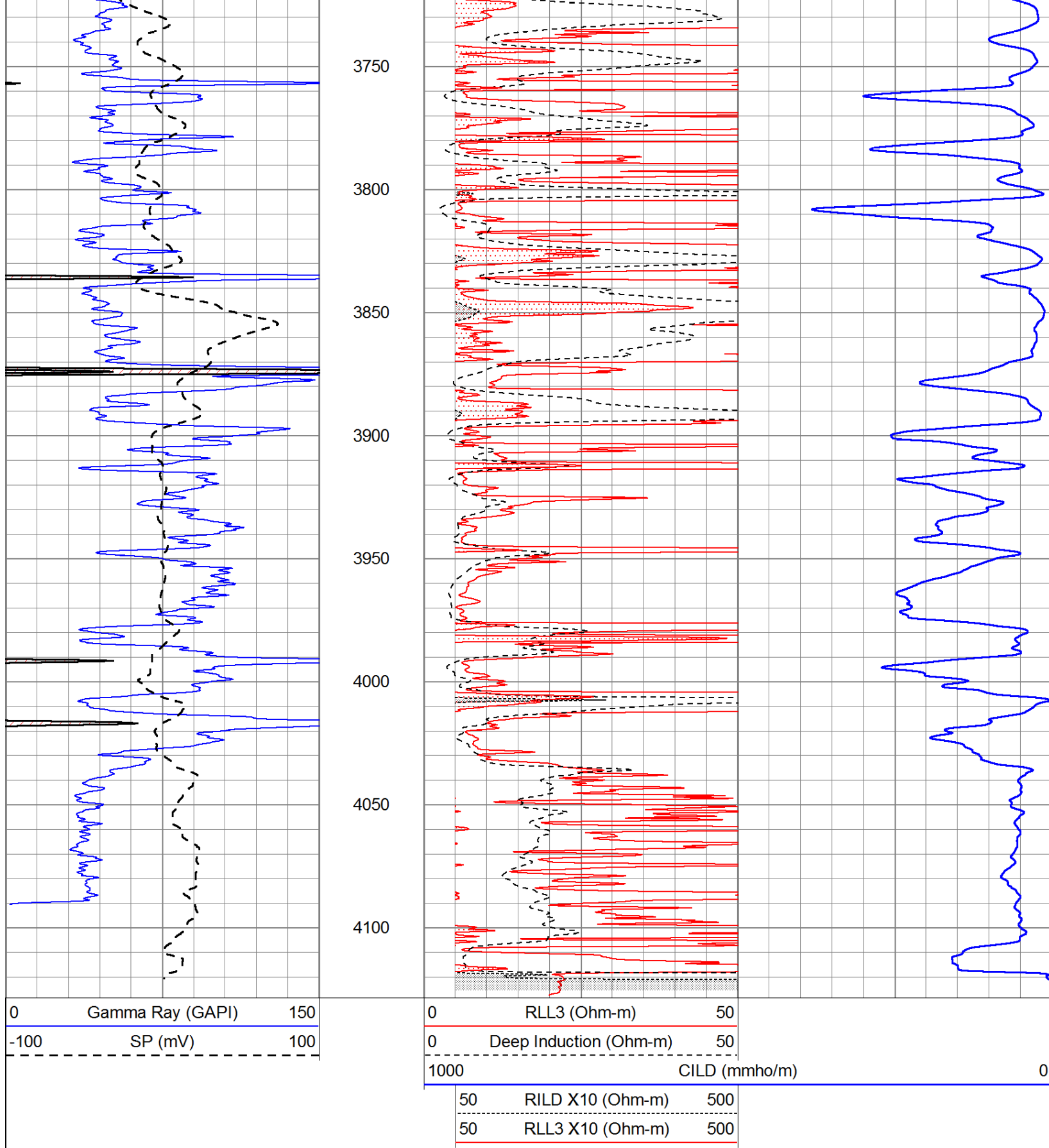
2050









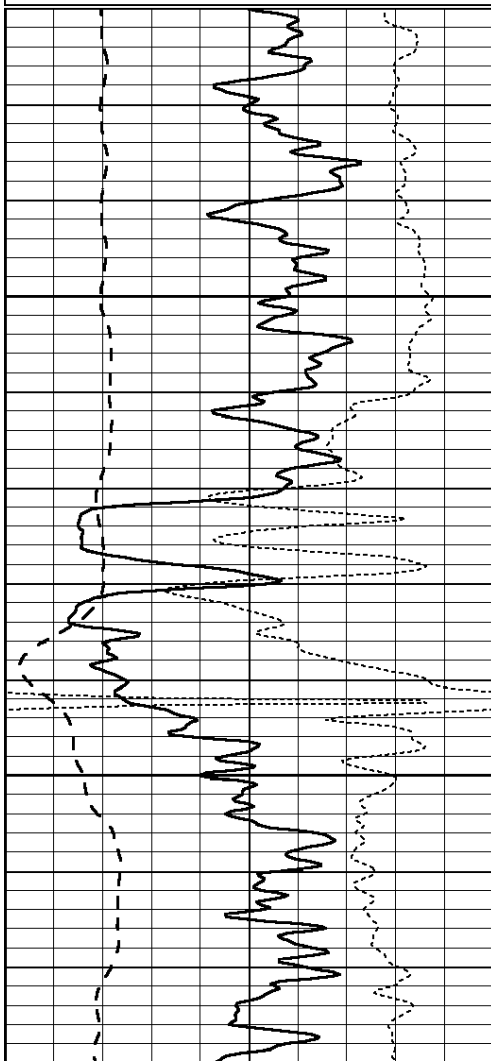


ANHYDRITE

Dataset Pathname: pass3.2
Presentation Format: _dil
Dataset Creation: Mon Nov 05 01:24:09 2018 by Calc Open-Cased 090629
Charted by: Depth in Feet scaled 1:240

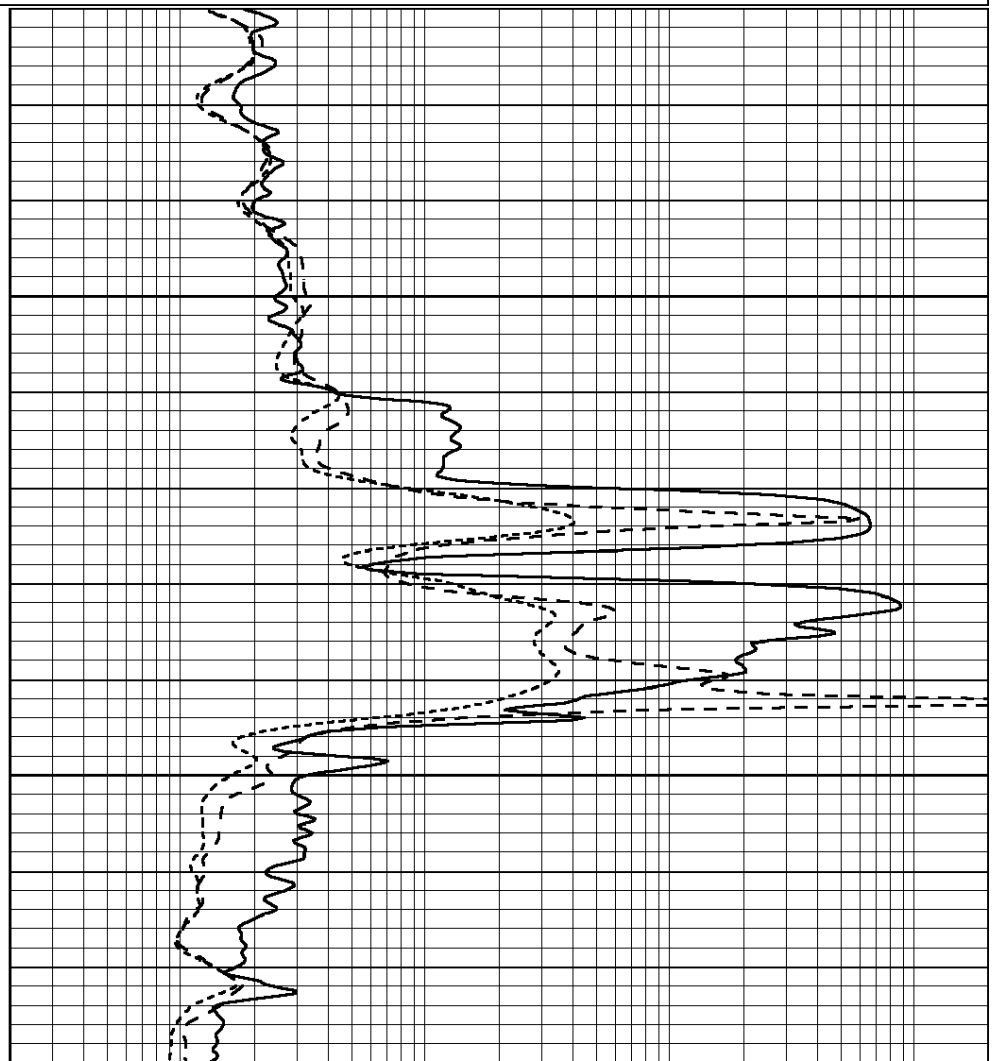
0	GAMMA RAY (GAPI)	150
-100	SP (mV)	100
-250	Rxo/Rt	50

0.2	SHALLOW GUARD (Ohm-m)	2000
0.2	MEDIUM INDUCTION (Ohm-m)	2000
0.2	DEEP INDUCTION (Ohm-m)	2000



1200

1250



0	GAMMA RAY (GAPI)	150
-100	SP (mV)	100
-250	Rxo/Rt	50

0.2	SHALLOW GUARD (Ohm-m)	2000
0.2	MEDIUM INDUCTION (Ohm-m)	2000
0.2	DEEP INDUCTION (Ohm-m)	2000

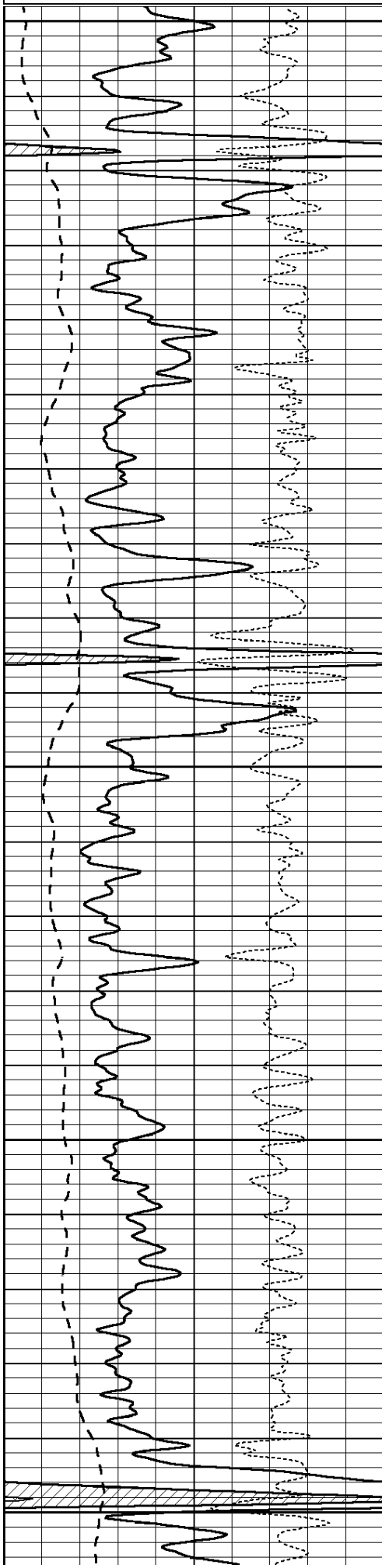


MAIN SECTION

Database File: 3015ddn.db
Dataset Pathname: pass3.1
Presentation Format: _dil
Dataset Creation: Mon Nov 05 01:00:48 2018 by Calc Open-Cased 090629
Charted by: Depth in Feet scaled 1:240

0	GAMMA RAY (GAPI)	150
-100	SP (mV)	100

0.2	SHALLOW GUARD (Ohm-m)	2000
0.2	MEDIUM INDUCTION (Ohm-m)	2000



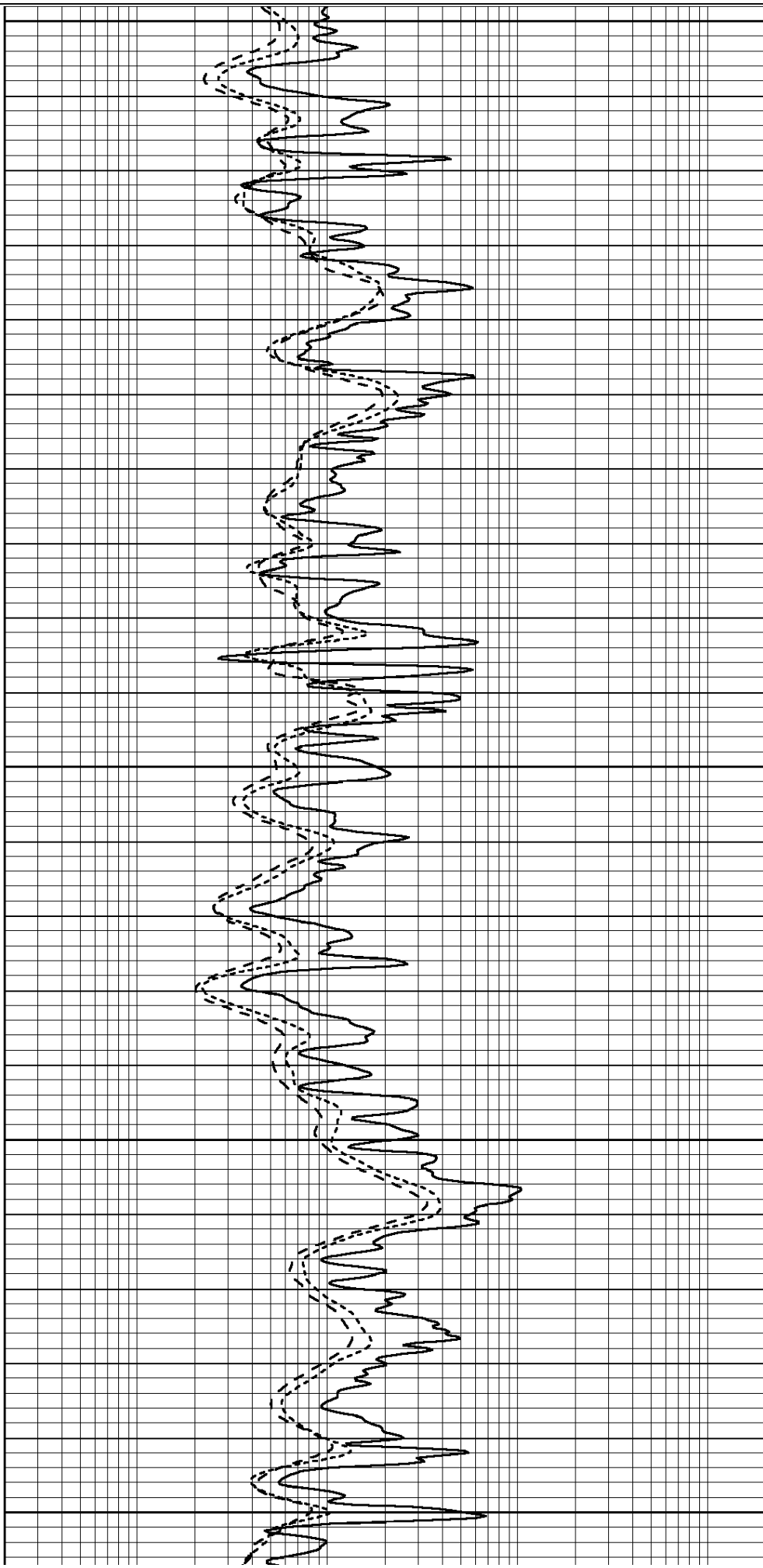
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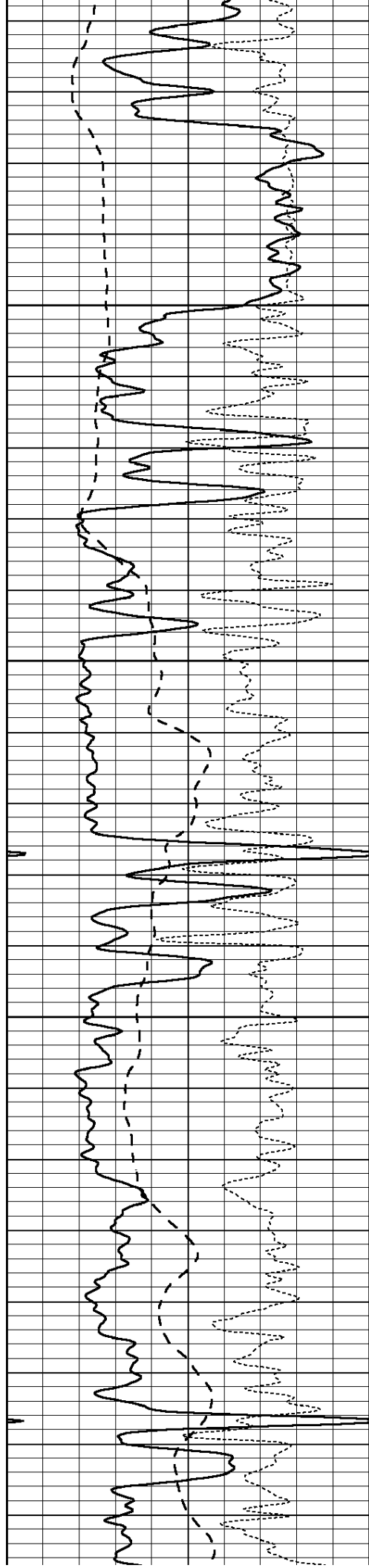
3400

3450

3500

3550



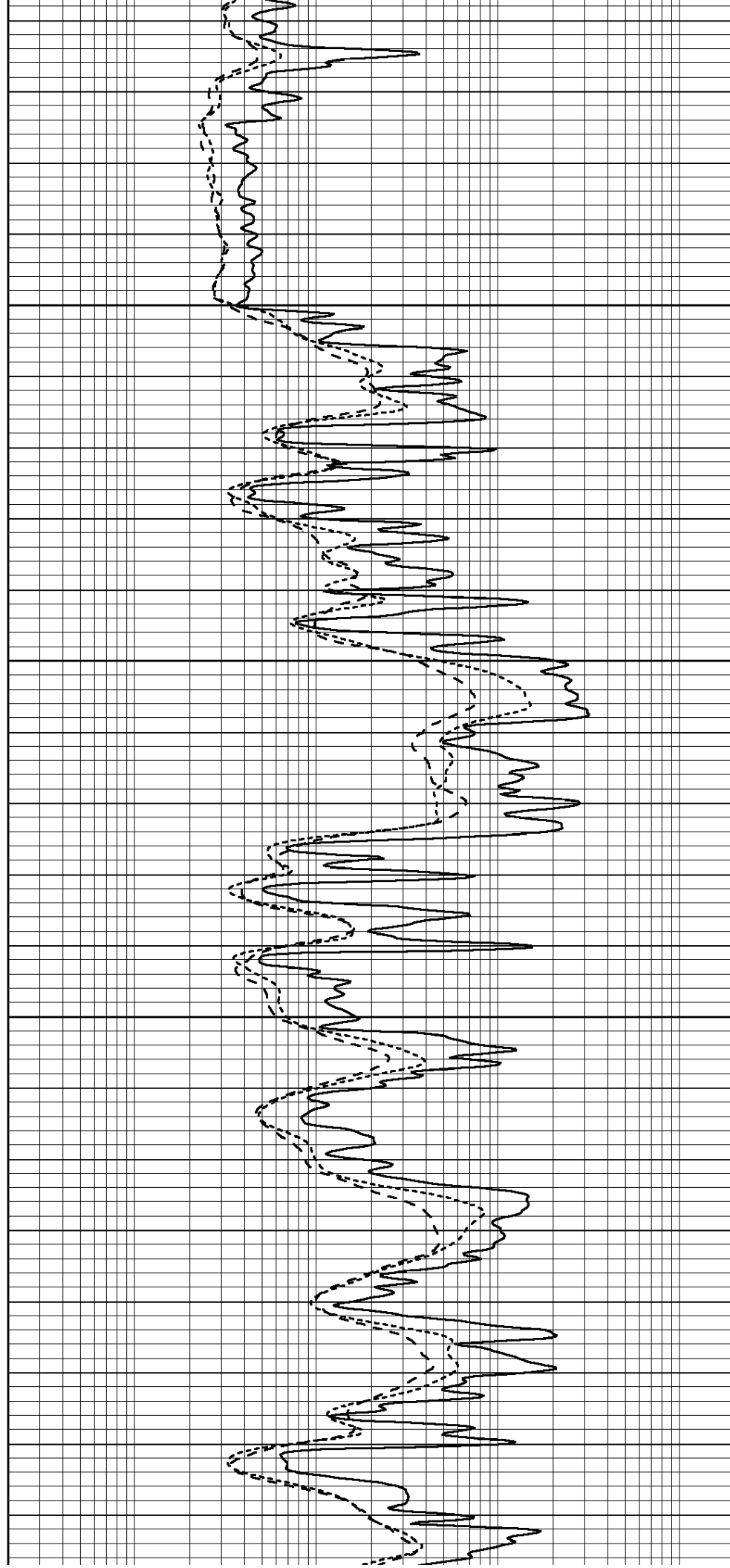


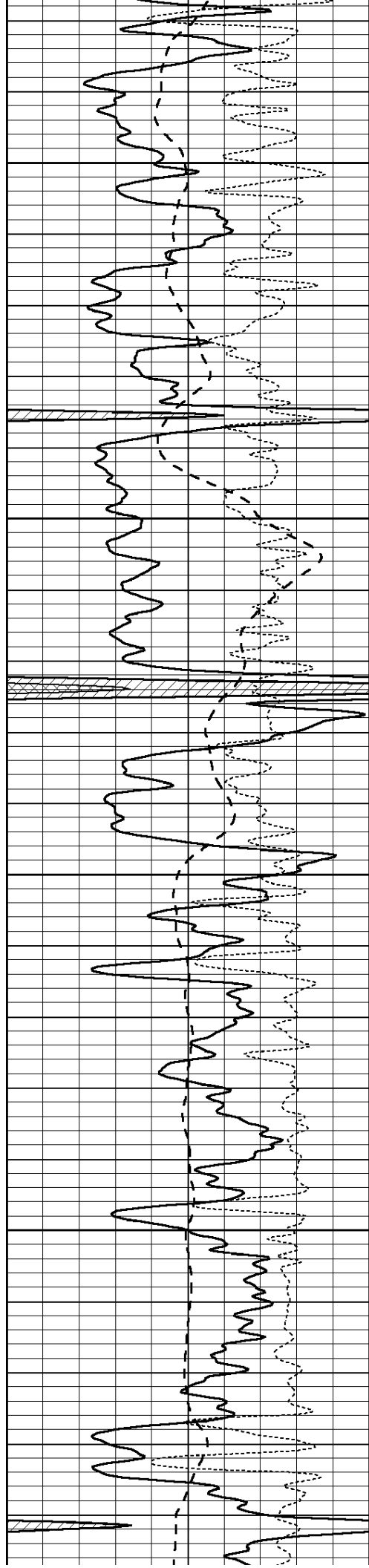
3600

3650

3700

3750



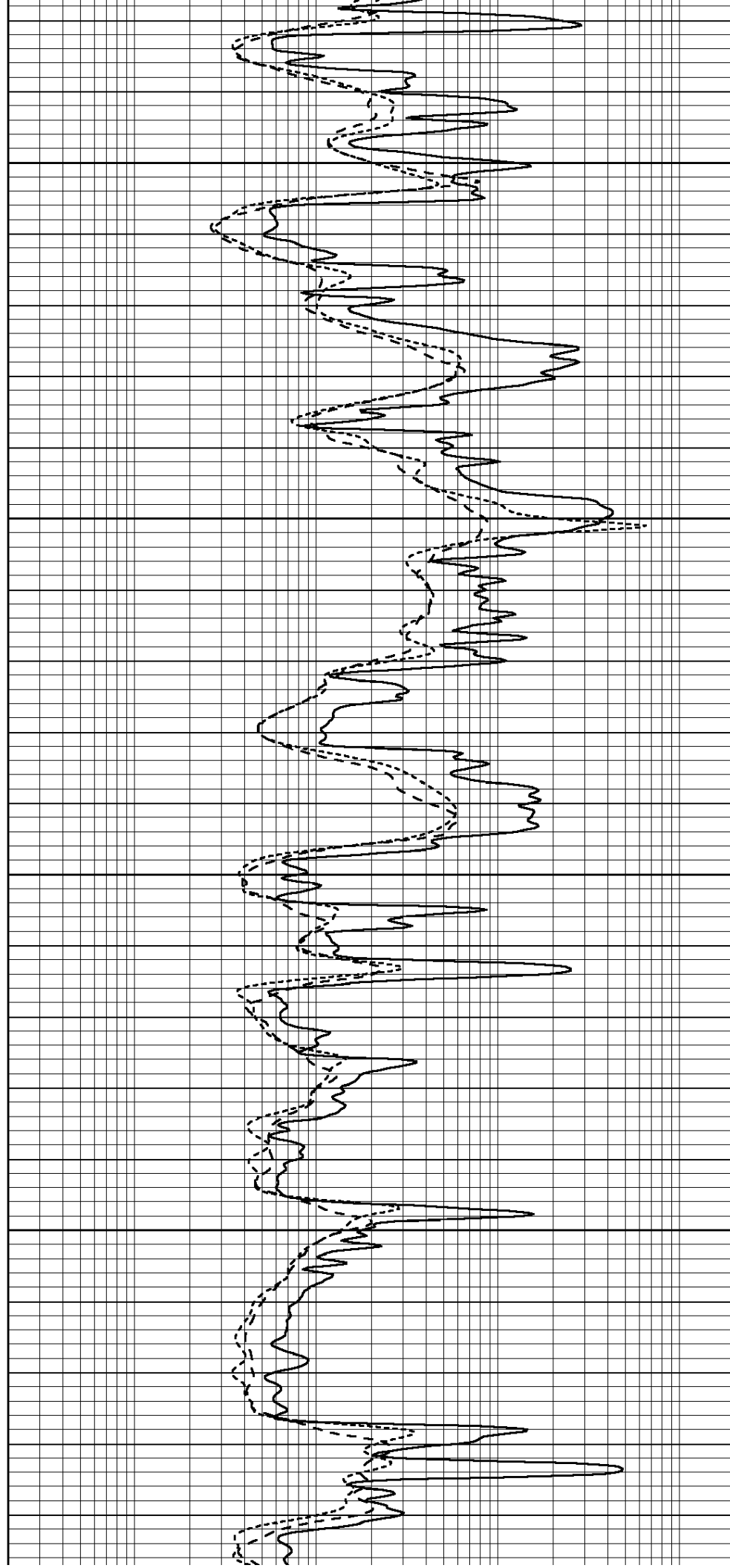


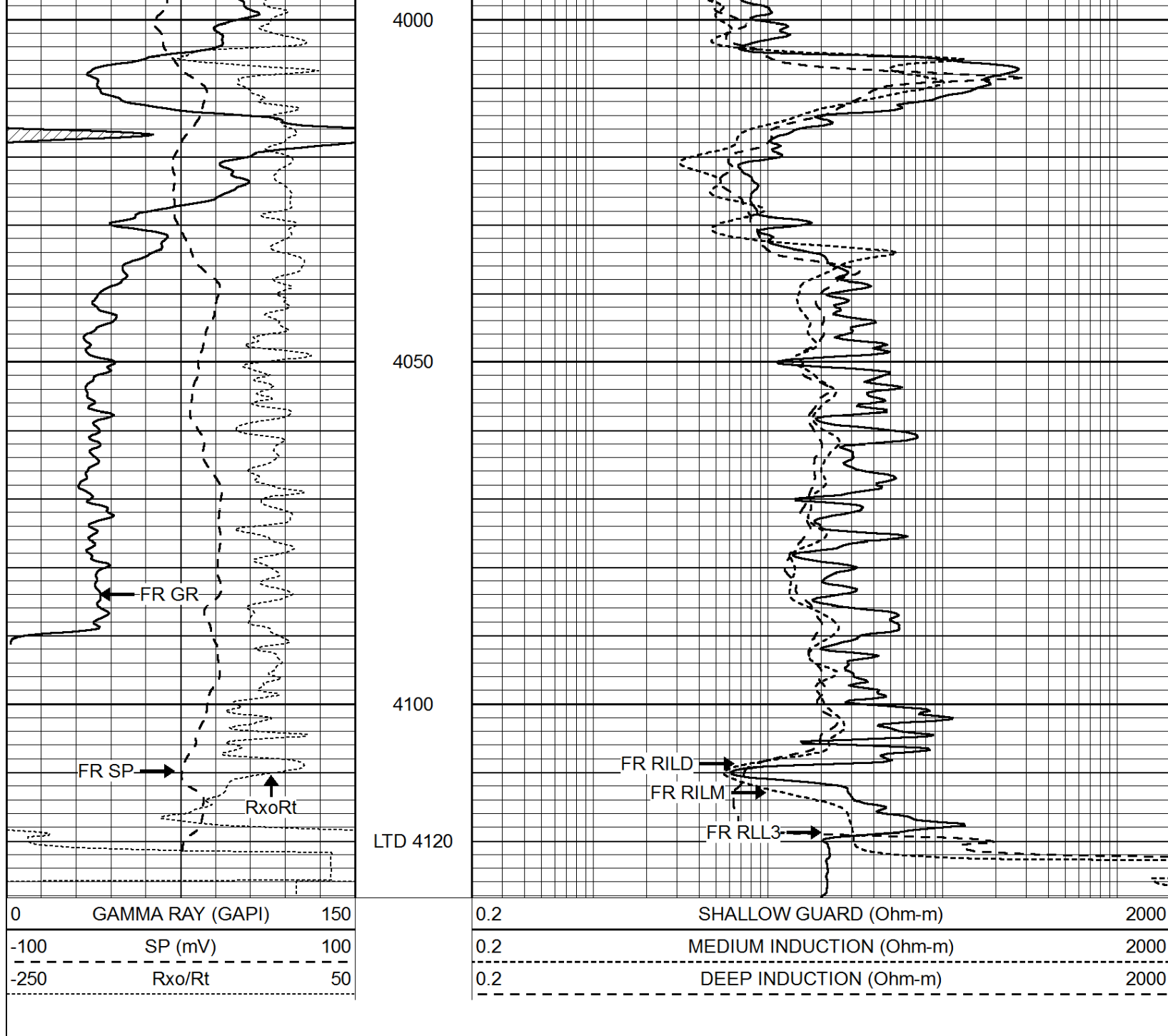
3800

3850

3900

3950





Calibration Report

Database File: 3015ddn.db
 Dataset Pathname: pass3.1
 Dataset Creation: Mon Nov 05 01:00:48 2018 by Calc Open-Cased 090629

Dual Induction Calibration Report

Serial-Model: PROBE8-DILG
 Surface Cal Performed: Fri Aug 01 06:33:19 2008
 Downhole Cal Performed: Mon Jul 28 11:08:27 2008
 After Survey Verification Performed: Mon Jul 28 11:08:27 2008

Surface Calibration

Loop:	Readings			References			Results	
	Air	Loop		Air	Loop		m	b
Deep	0.015	0.648	V	0.000	400.000	mmho/m	632.616	-9.730
Medium	0.029	0.796	V	0.000	464.000	mmho/m	605.049	-17.680

Internal:	Zero	Cal		Zero	Cal		m	b
Deep	0.017	0.657	V	0.000	400.000	mmho/m	625.153	-10.619
Medium	0.016	0.757	V	0.000	464.000	mmho/m	625.992	-9.739
Downhole Calibration								
	Readings			References			Results	
	Zero	Cal		Zero	Cal		m'	b'
Deep	0.000	0.000	mmho/m	2.011	405.777	mmho/m	1.000	0.000
Medium	0.000	0.000	mmho/m	7.590	503.393	mmho/m	1.000	0.000
LL3		7.500	V		1500.000	Ohm-m		
		0.000	V		20.000	Ohm-m		
		-7.200	V		3800.000	mmho-m		
After Survey Verification								
	Readings			Targets			Results	
	Zero	Cal		Zero	Cal		m'	b'
Deep	0.000	0.000	mmho/m	0.000	0.000	mmho/m	0.000	0.000
Medium	0.000	0.000	mmho/m	0.000	0.000	mmho/m	0.000	0.000
LL3		1.000	Ohm-m		1.000	Ohm-m		
		0.000	Ohm-m		0.000	Ohm-m		
		1.000	mmho-m		1.000	mmho-m		
Compensated Density Calibration Report								
	Serial-Model:				GEAR4-GEARHART			
	Source / Verifier:				143 / 143			
	Master Calibration Performed:				Sun Oct 28 18:47:20 2018			
	Before Survey Verification Performed:							
	After Survey Verification Performed:							
Master Calibration								
	Density			Far Detector		Near Detector		
Magnesium	1.710	g/cc		1057.18	511.74	cps		
Aluminum	2.580	g/cc		231.56	346.96	cps		
	Spine Angle = 75.65			Density/Spine Ratio = 0.555				
	Size			Reading				
Small Ring	8.30	in		3.70	V			
Large Ring	14.00	in		6.34	V			
Before Survey Verification								
	Target			Measured				
		g/cc			g/cc			
		g/cc			g/cc			
		g/cc			g/cc			
After Survey Verification								
	Target			Measured				
		g/cc			g/cc			
		g/cc			g/cc			
		g/cc			g/cc			
Compensated Neutron Calibration Report								
	Serial Number:				080621			
	Tool Model:				Probe			

PRE-SURVEY VERIFICATION			
Detector	Readings	Measured	Target
Short Space	cps		
Long Space	cps	pu	pu
POST-SURVEY VERIFICATION			
Detector	Readings	Measured	Target
Short Space	cps		
Long Space	cps	pu	pu
Gamma Ray Calibration Report			
Serial Number:	7		
Tool Model:	Probe1		
Performed:	Sun Oct 28 01:56:41 2018		
Calibrator Value:	1.0	GAPI	
Background Reading:	0.0	cps	
Calibrator Reading:	1.0	cps	
Sensitivity:	0.4700	GAPI/cps	