



DUAL INDUCTION LOG

Company JASPAR COMPANY
 Well DUB FARMS #1
 Field EDGAR WEST
 County ROOKS
 State KANSAS

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 Well DUB FARMS #1
 Field EDGAR WEST
 County ROOKS State KANSAS

Location: API #: 15-163-24462-0000
 1068' FNL & 568' FEL
 NW - NE - SE - SE
 SEC 3 TWP 6S RGE 20W
 Permanent Datum GROUND LEVEL Elevation 2123
 Log Measured From KELLY BUSHING 7' A.G.L.
 Drilling Measured From KELLY BUSHING
 Other Services CDL/CNL MEL
 Elevation K.B. 2130 D.F. 2128 G.L. 2123

Date	9/10/22
Run Number	ONE
Depth Driller	3594
Depth Logger	3594
Bottom Logged Interval	3592
Top Log Interval	00
Casing Driller	8 5/8"@220'
Casing Logger	220
Bit Size	7 7/8"
Type Fluid in Hole	CHEMICAL MUD
Density / Viscosity	9.2/44
pH / Fluid Loss	10.5/8.4
Source of Sample	FLOWLINE
Rm @ Meas. Temp	2.40@71F
Rmf @ Meas. Temp	1.80@71F
Rmc @ Meas. Temp	2.88@71F
Source of Rmf / Rmc	MEASUREMENT
Rm @ BHT	1.52@112F
Time Circulation Stopped	2 HOURS
Time Logger on Bottom	3.45 P.M.
Maximum Recorded Temperature	112F
Equipment Number	922339
Location	HAYS, KANSAS
Recorded By	JEFF LUEBBERS
Witnessed By	CAMERON BRIN

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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.

15-163-24462-0000 Comments

THANK YOU FOR USING ELI WIRELINE HAYS, KANSAS (785) 628-6395
 DIRECTIONS
 STOCKTON, KS., 9N. ON HWY 183 TO PHILLIPS COUNTY LINE, 13W. ON "RD. A" TO "RD. 5", 3/4S.,
 W. INTO

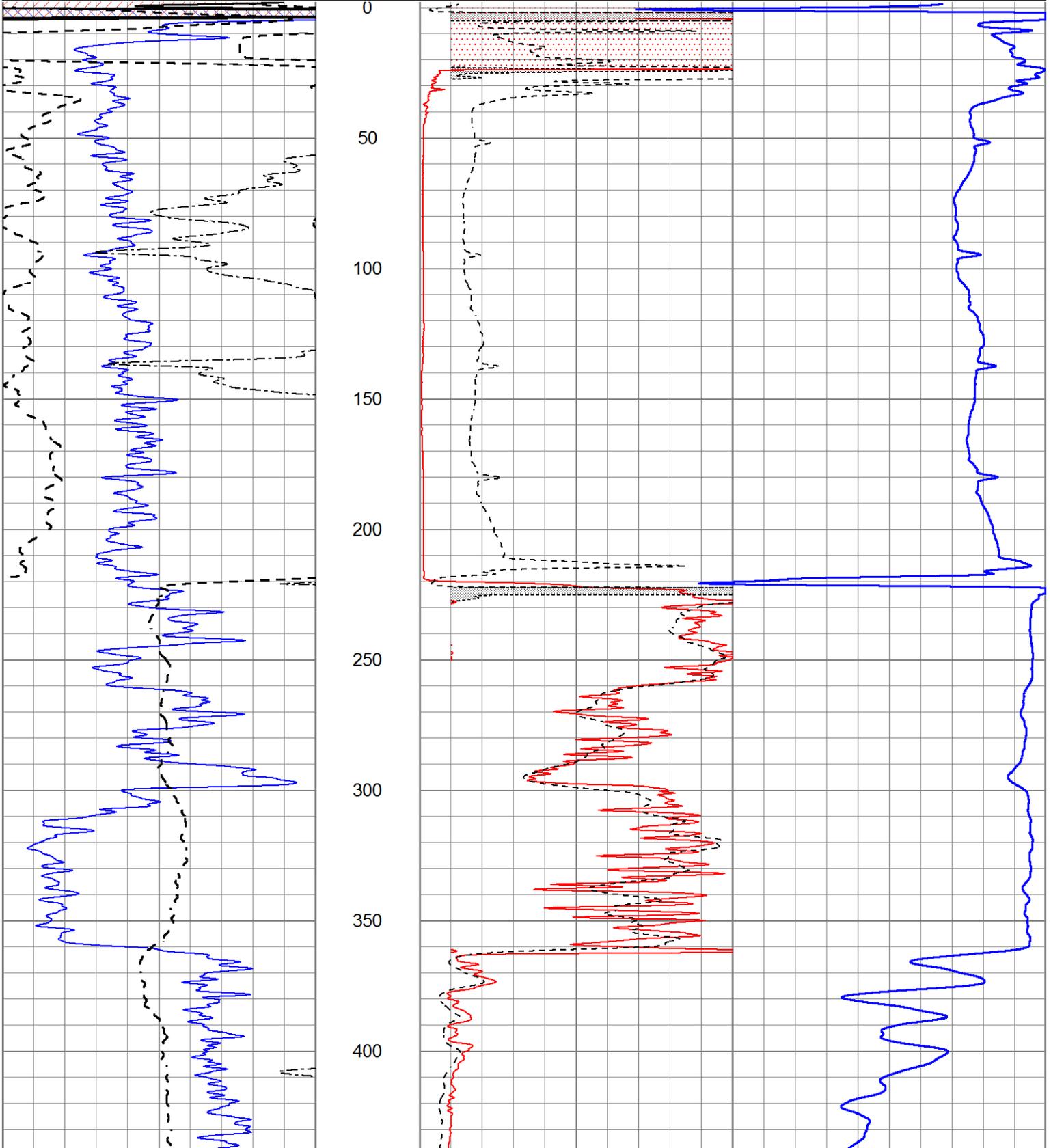


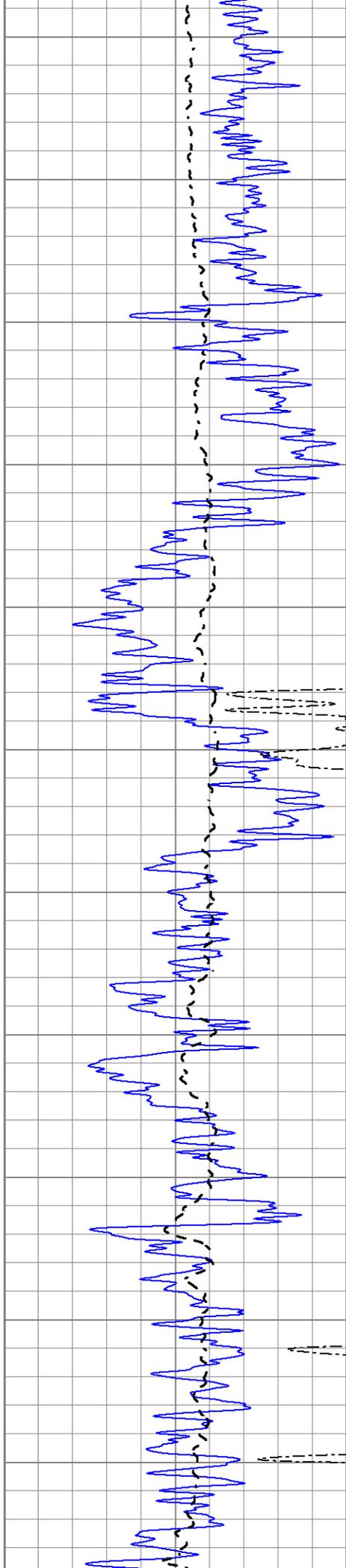
MAIN SECTION

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 Presentation Format _dil2
 Dataset Creation Sat Sep 10 17:13:16 2022
 Charted by Depth in Feet scaled 1:600

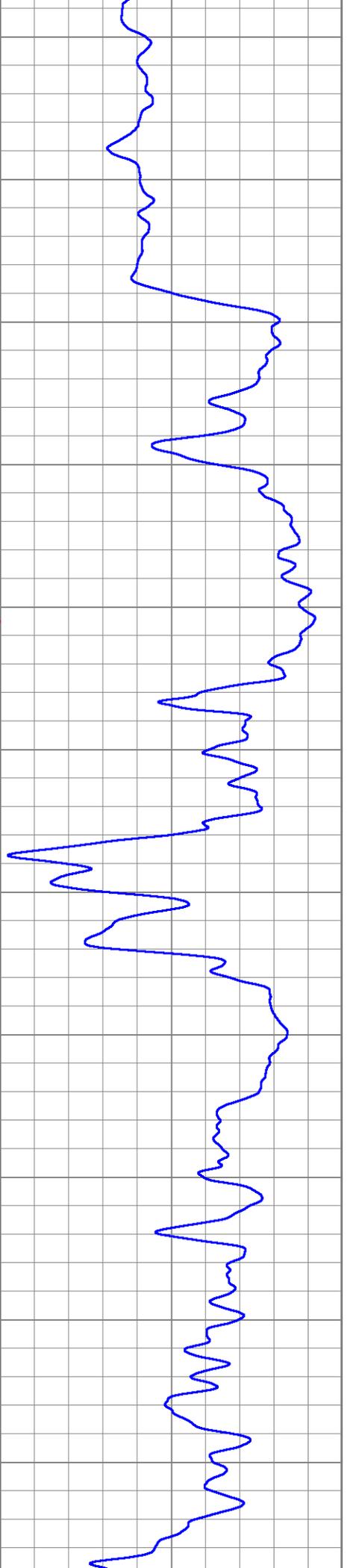
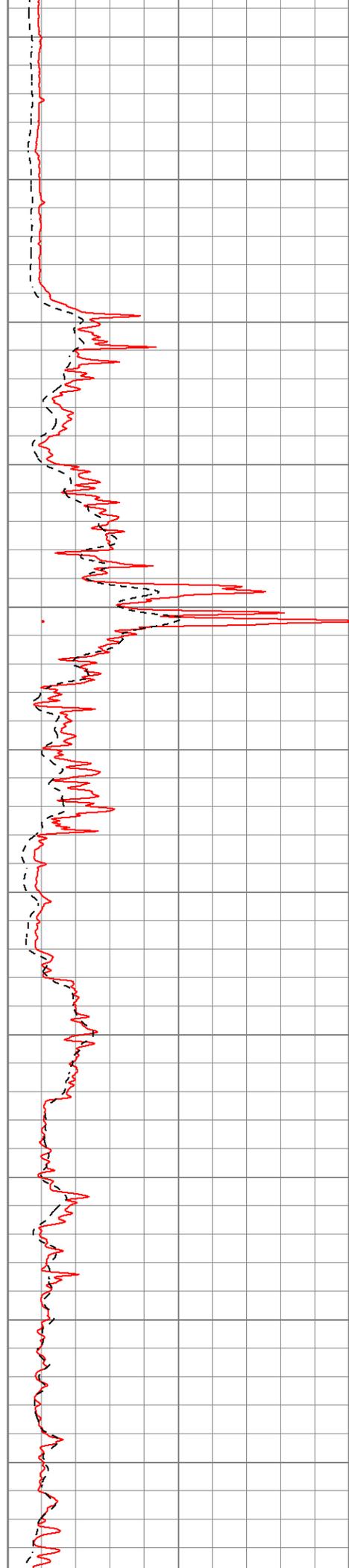
0	Gamma Ray (GAPI)	150
-100	SP (mV)	100
0	RWA (Ohm-m)	1

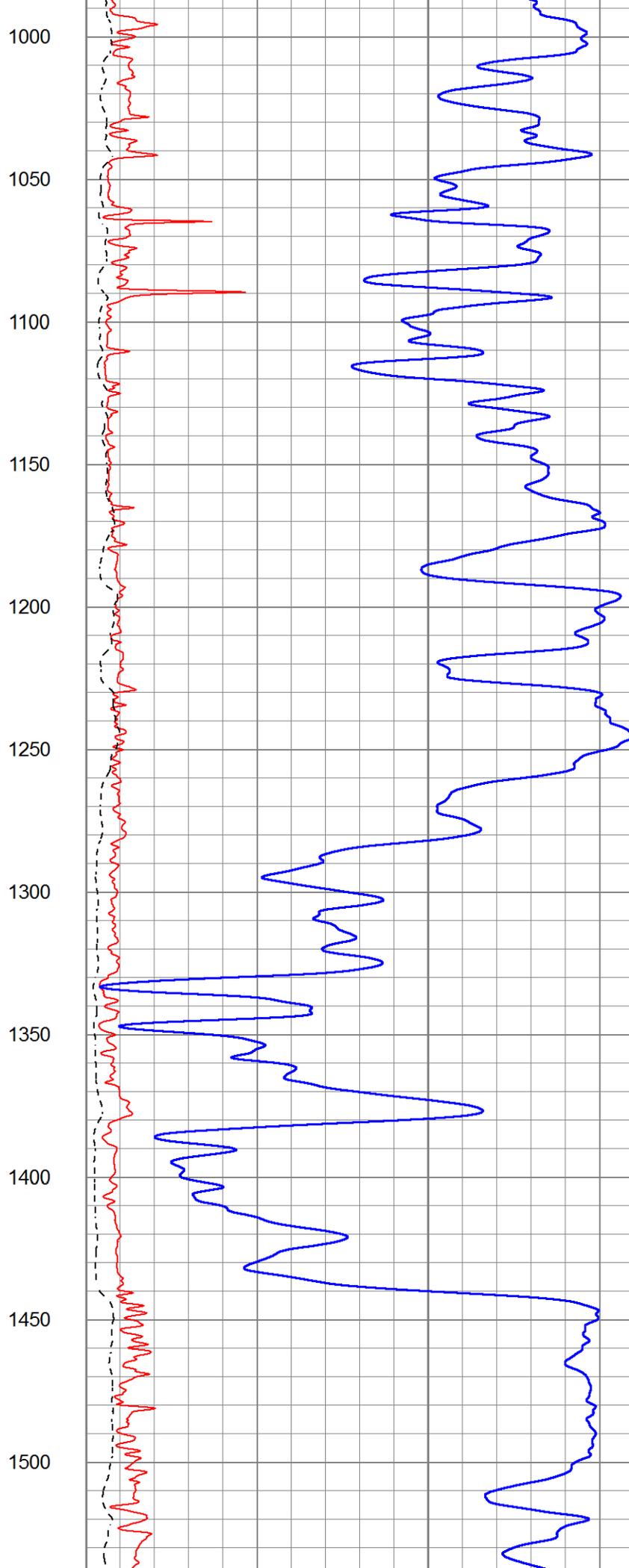
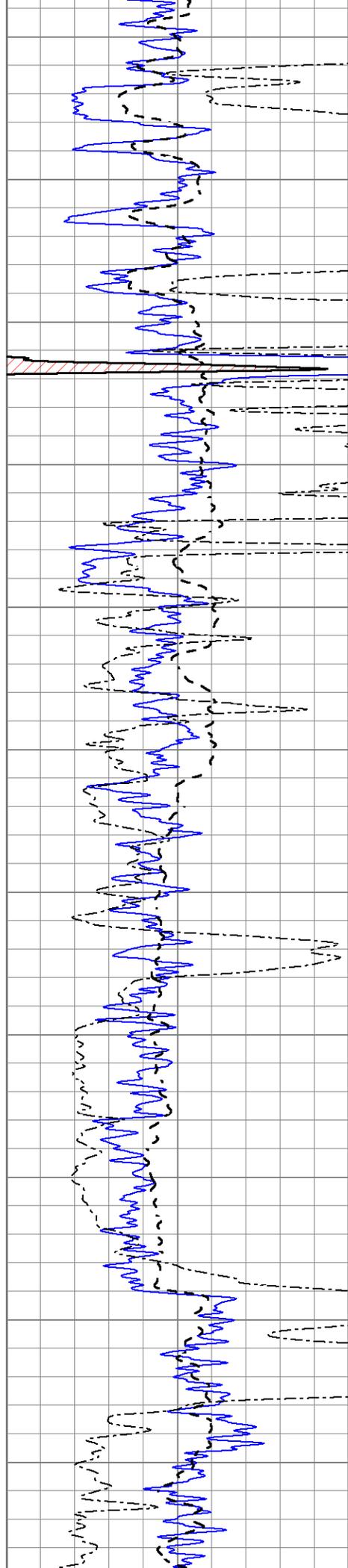
1000	CILD (mmho/m)	0
0	RLL3 (Ohm-m)	50
0	RILD (Ohm-m)	50
50	RILD X10 (Ohm-m)	500
50	RLL3 X10 (Ohm-m)	500

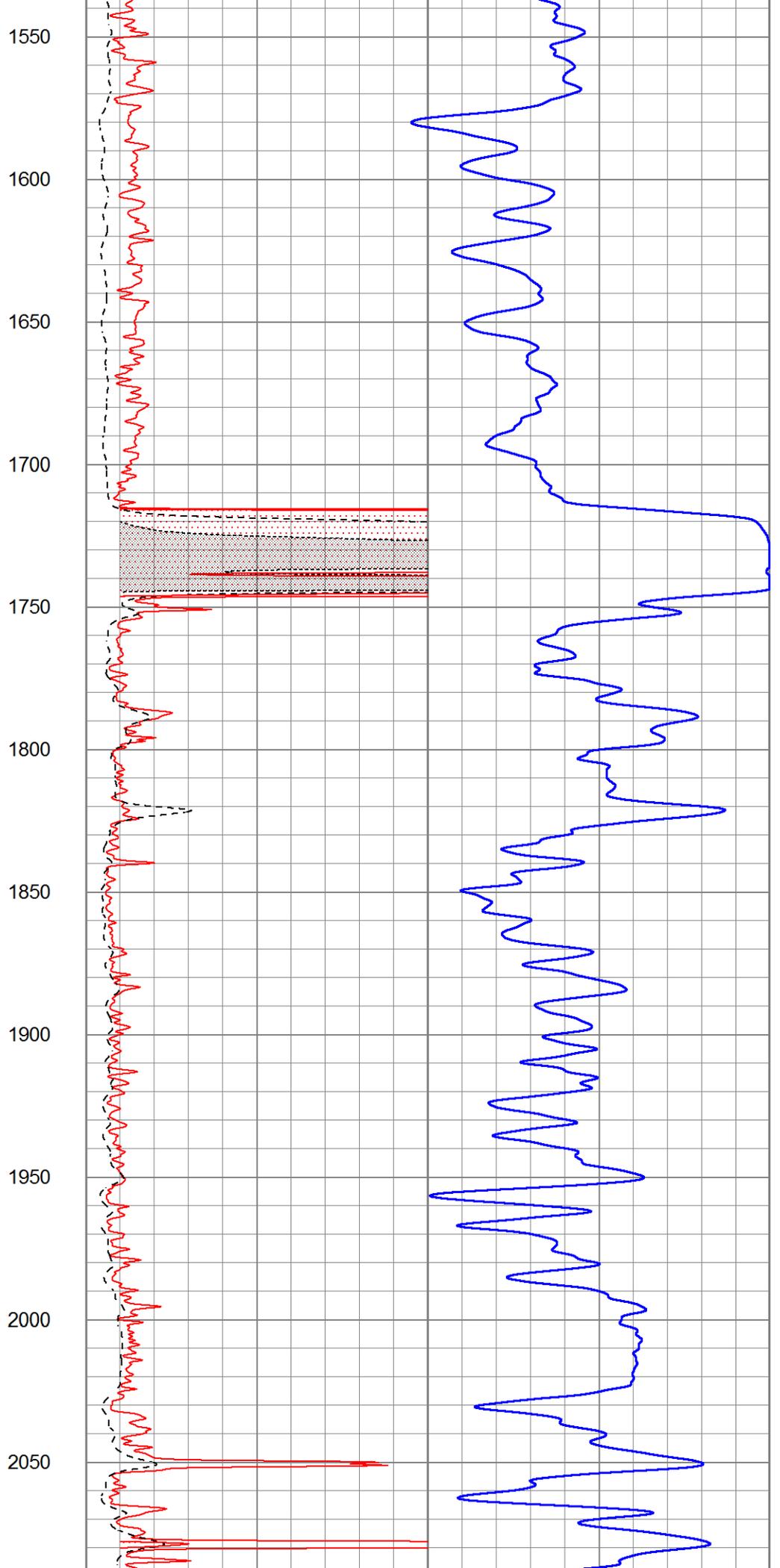
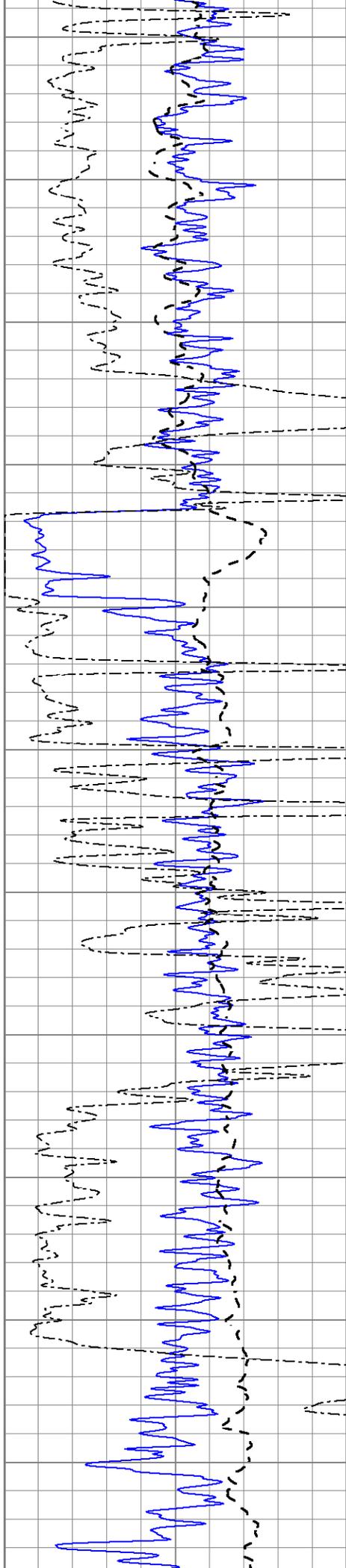


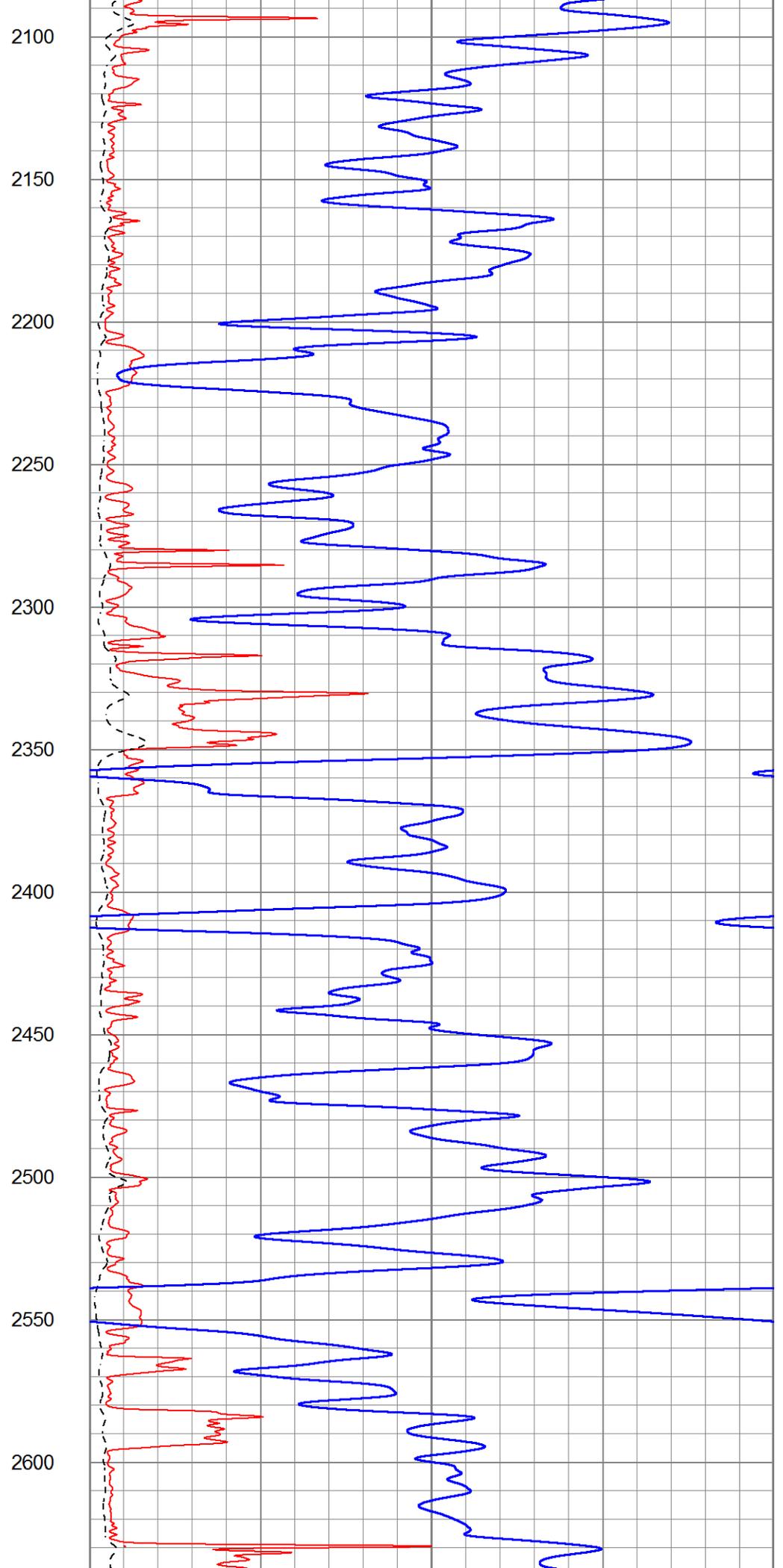
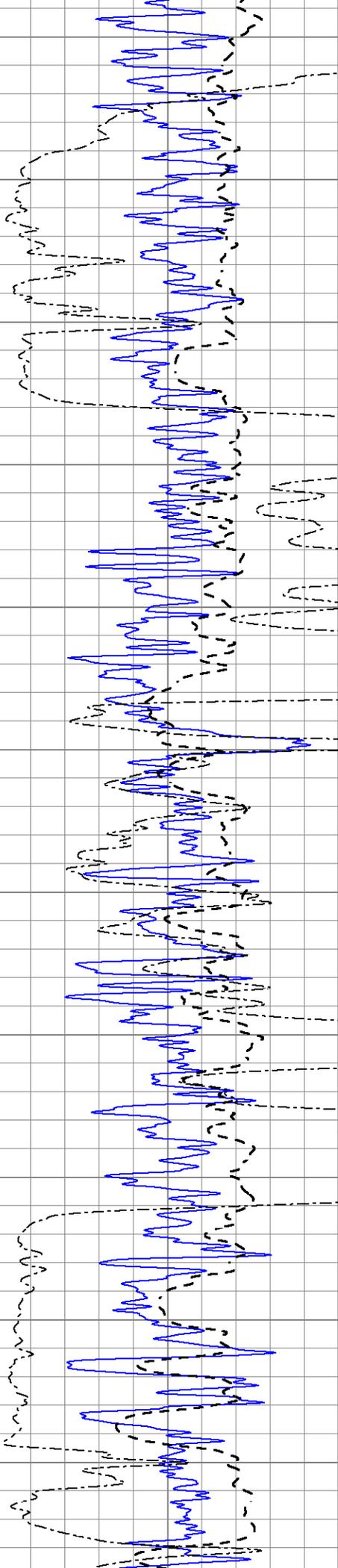


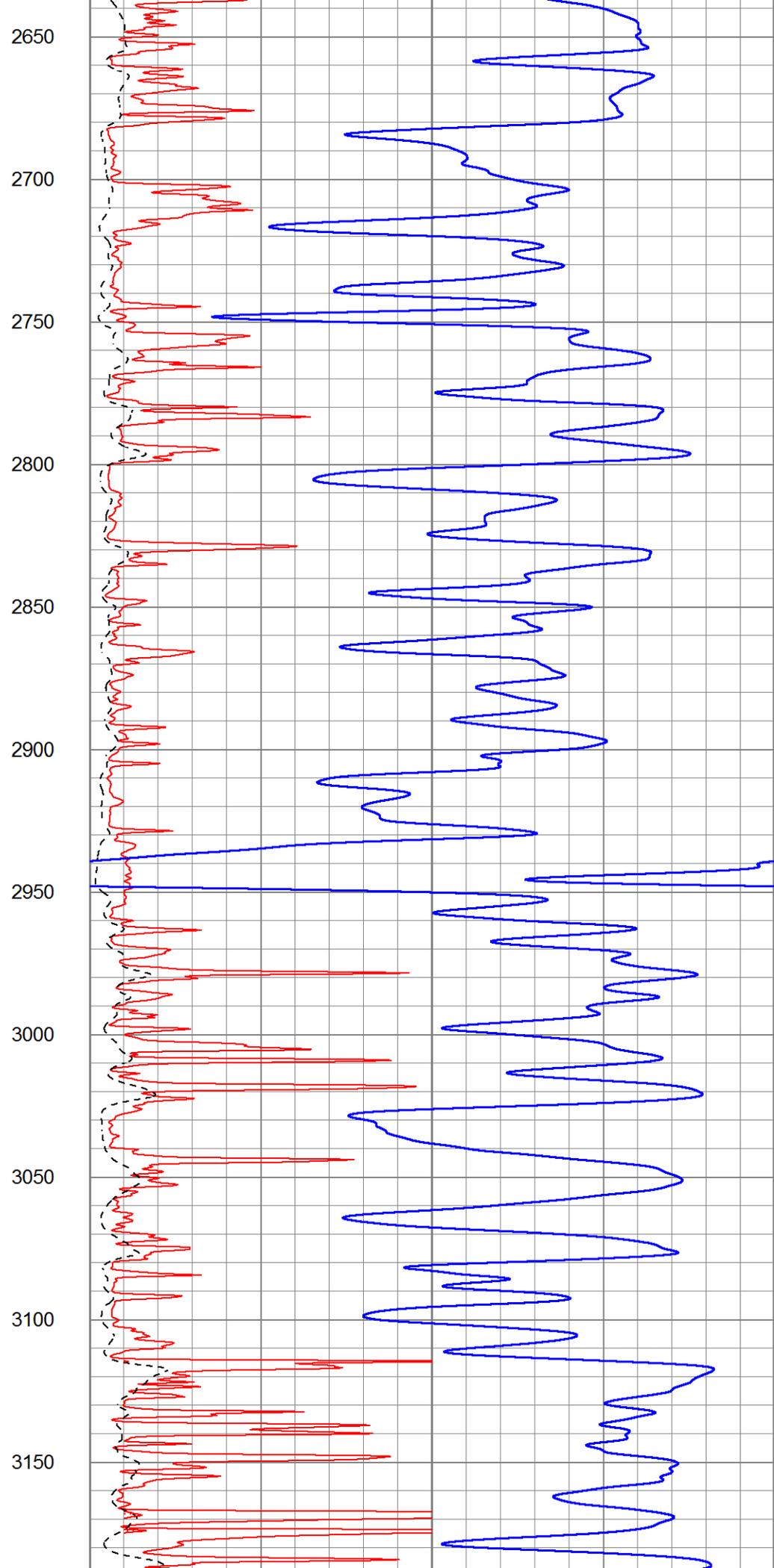
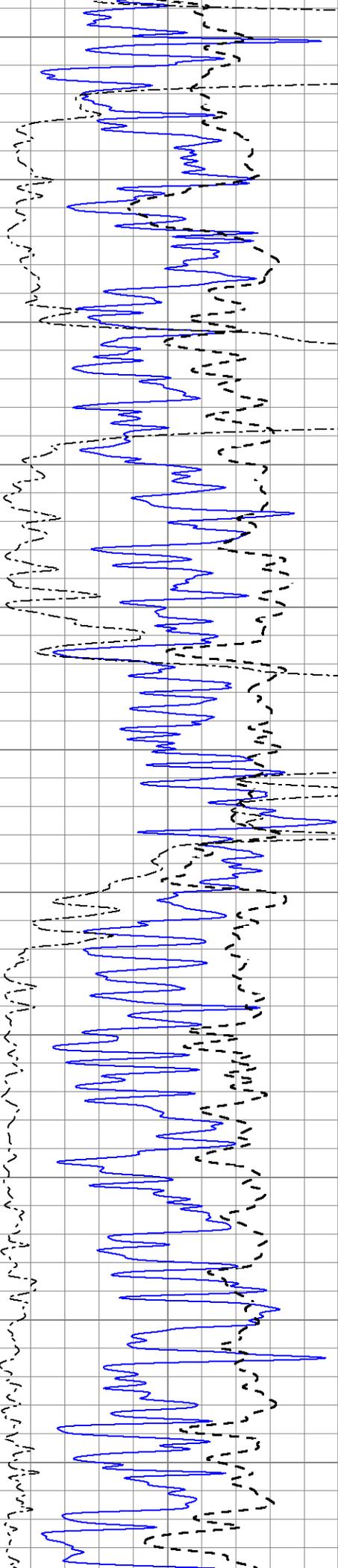
450
500
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950

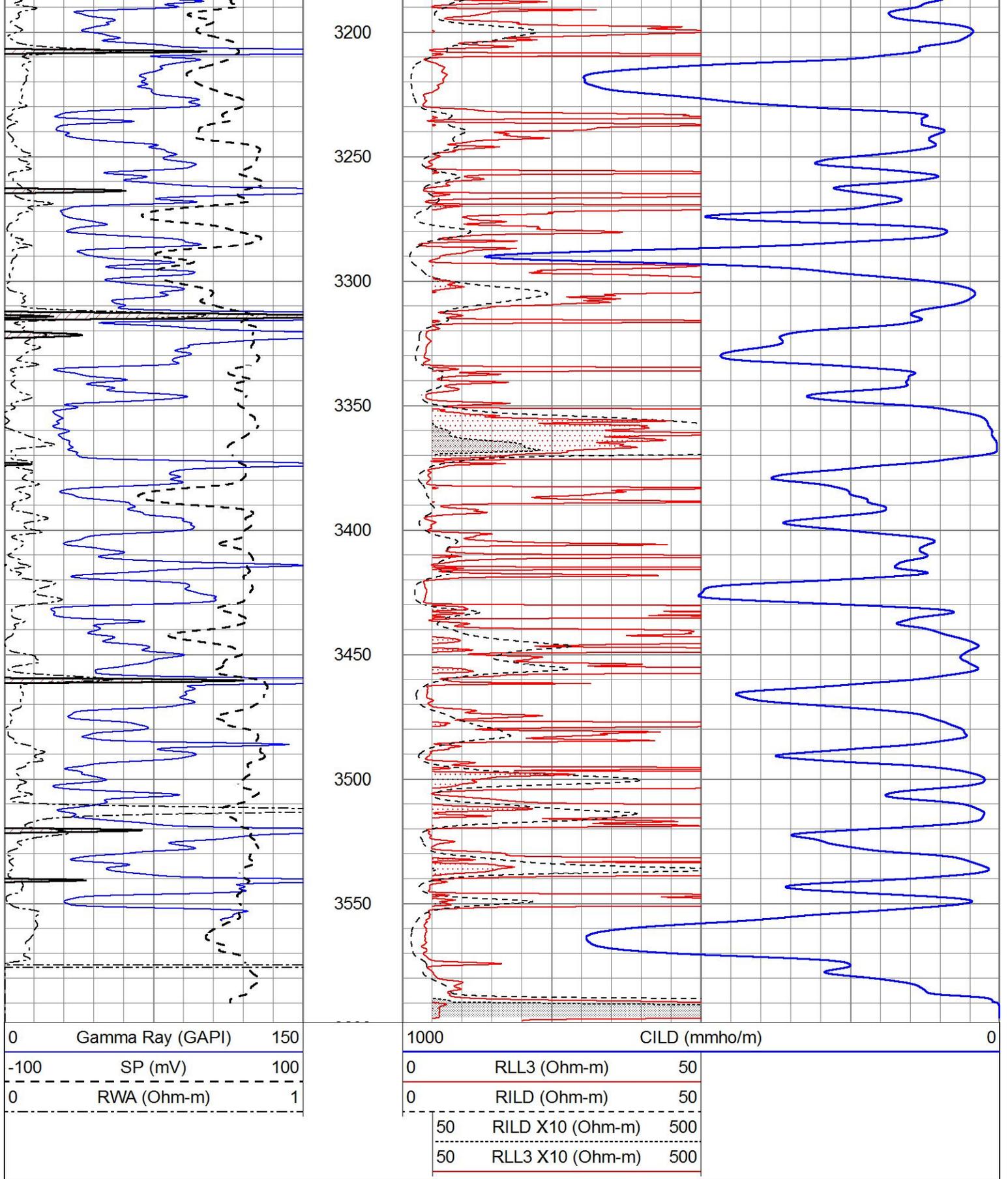










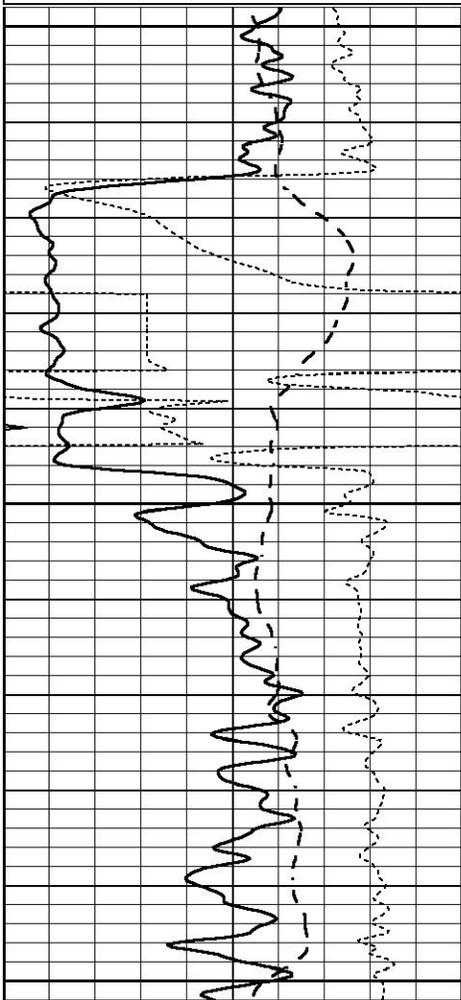


ANHYDRITE

Dataset Pathname pass4.1A
 Presentation Format _dil
 Dataset Creation Sat Sep 10 17:29:01 2022
 Charted by Depth in Feet scaled 1:240

0	GAMMA RAY (GAPI)	150
-100	SP (mV)	100
-250	Rxo/Rt	50
0	MINMK	20

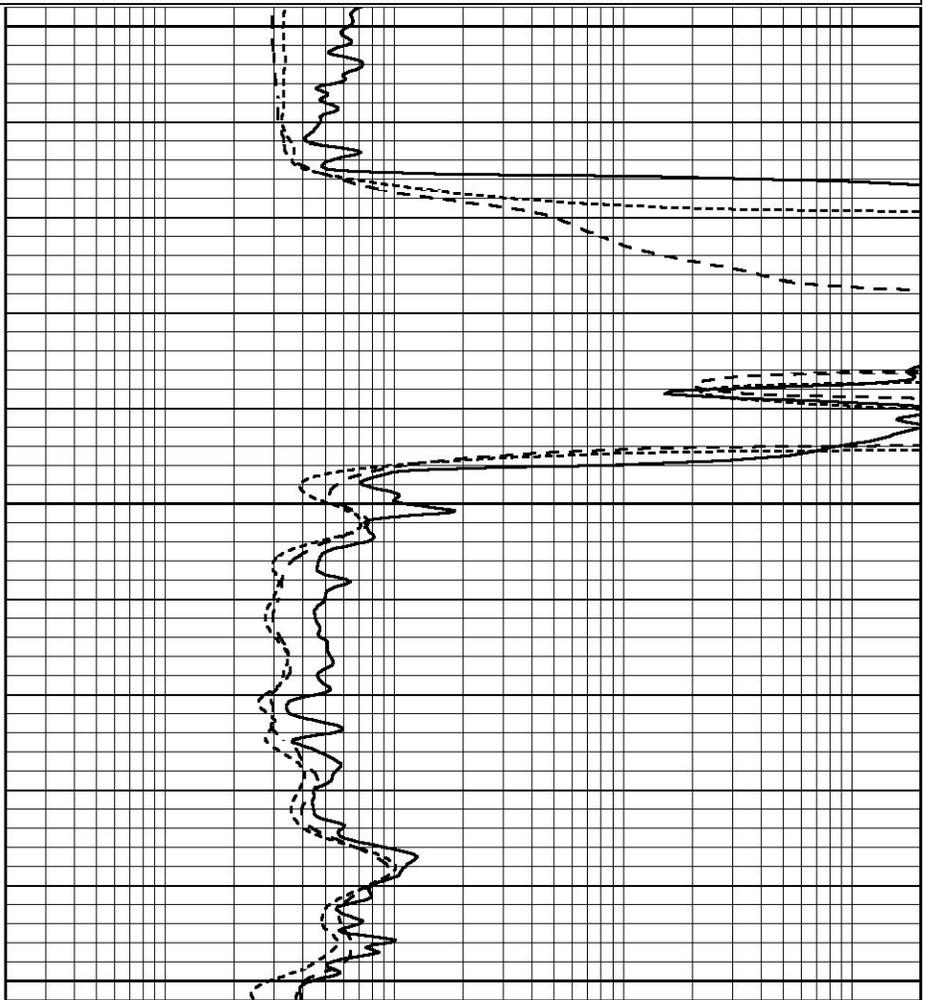
0.2	SHALLOW GUARD (Ohm-m)	2000
0.2	DEEP INDUCTION (Ohm-m)	2000
0.2	MEDIUM INDUCTION (Ohm-m)	2000



1700

1750

1800



0	GAMMA RAY (GAPI)	150
-100	SP (mV)	100
-250	Rxo/Rt	50
0	MINMK	20

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

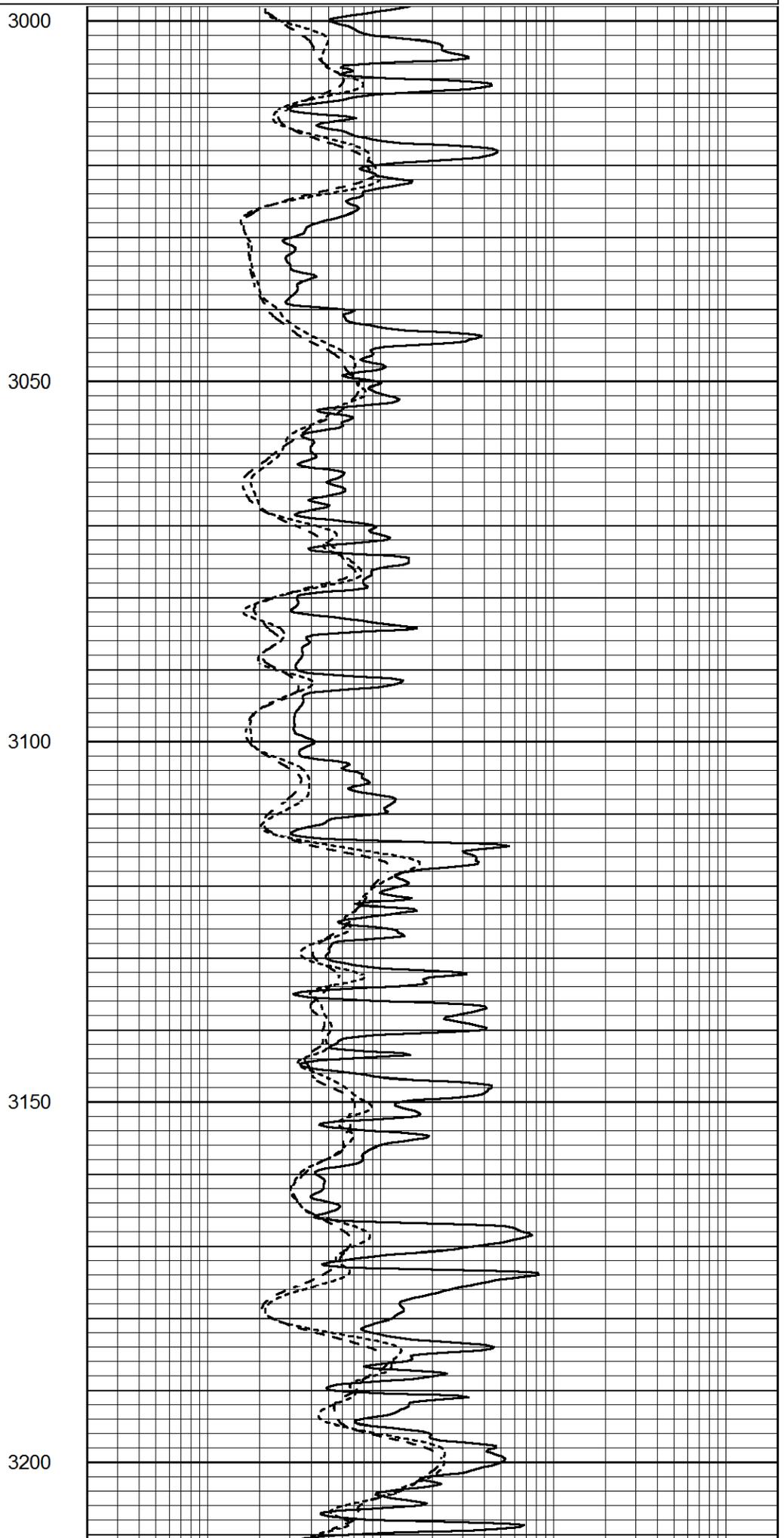
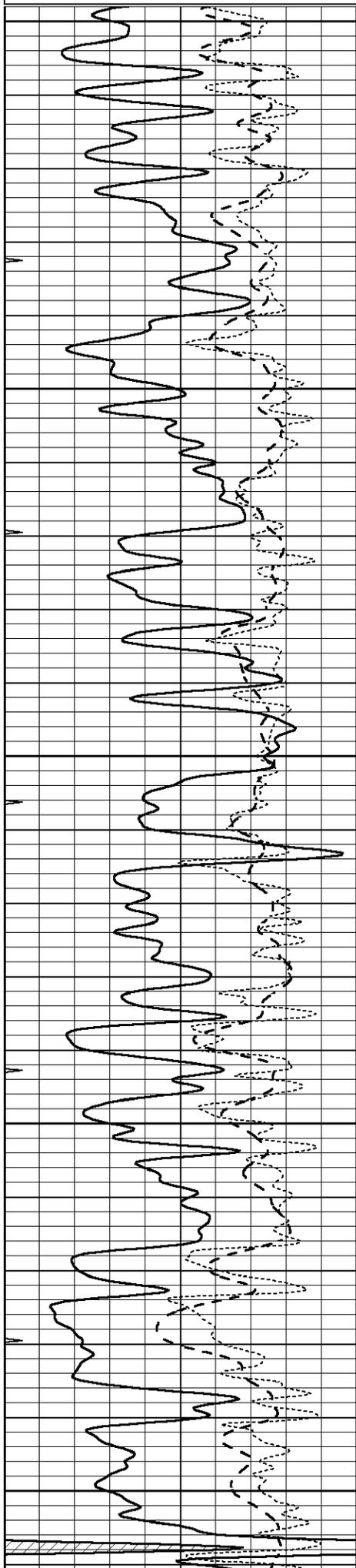


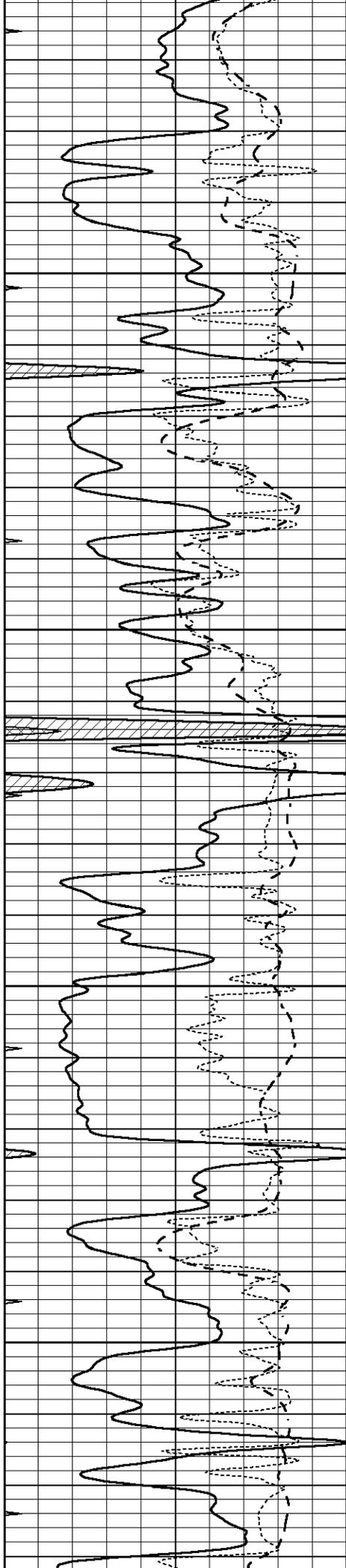
MAIN SECTION

Database File 6923ddn.db
 Dataset Pathname pass4.1M
 Presentation Format _dil
 Dataset Creation Sat Sep 10 17:13:16 2022
 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	DEEP INDUCTION (Ohm-m)	2000
0.2	MEDIUM INDUCTION (Ohm-m)	2000



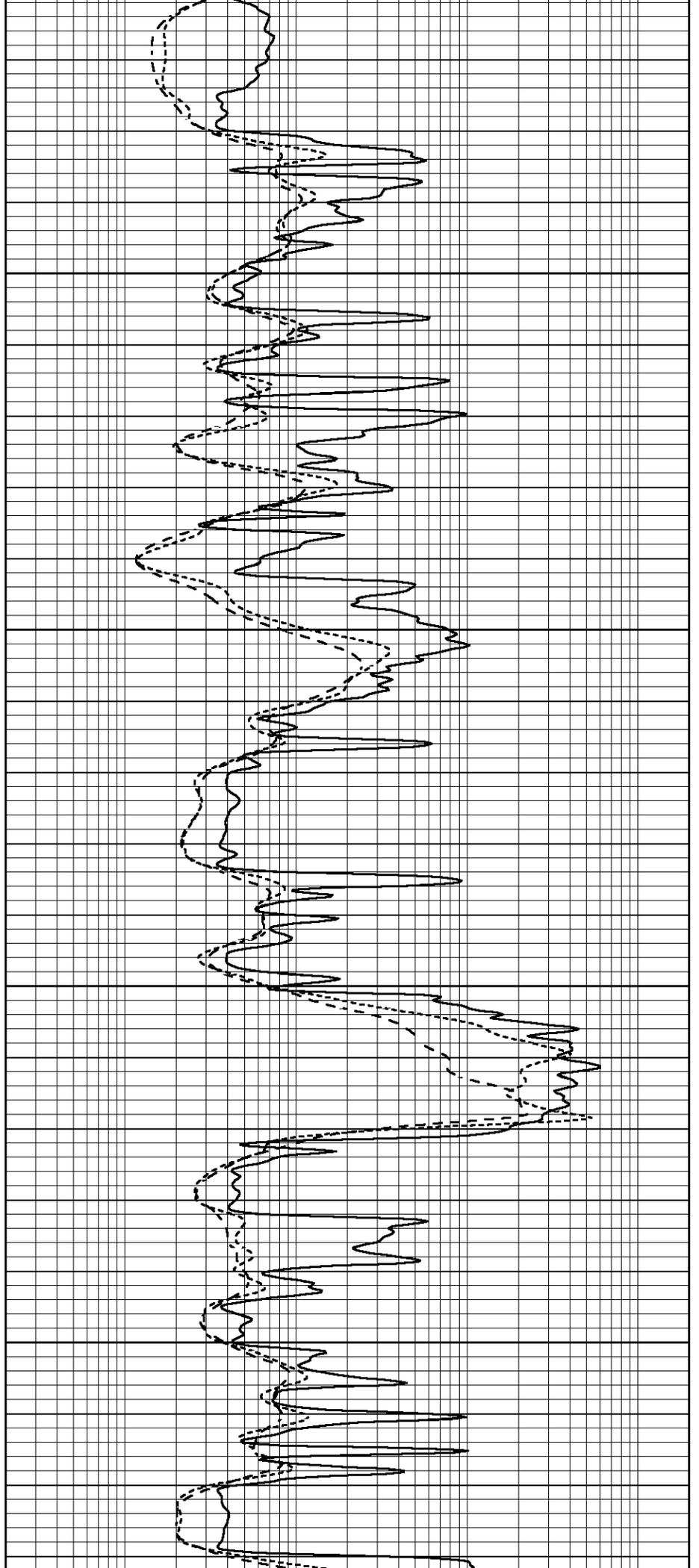


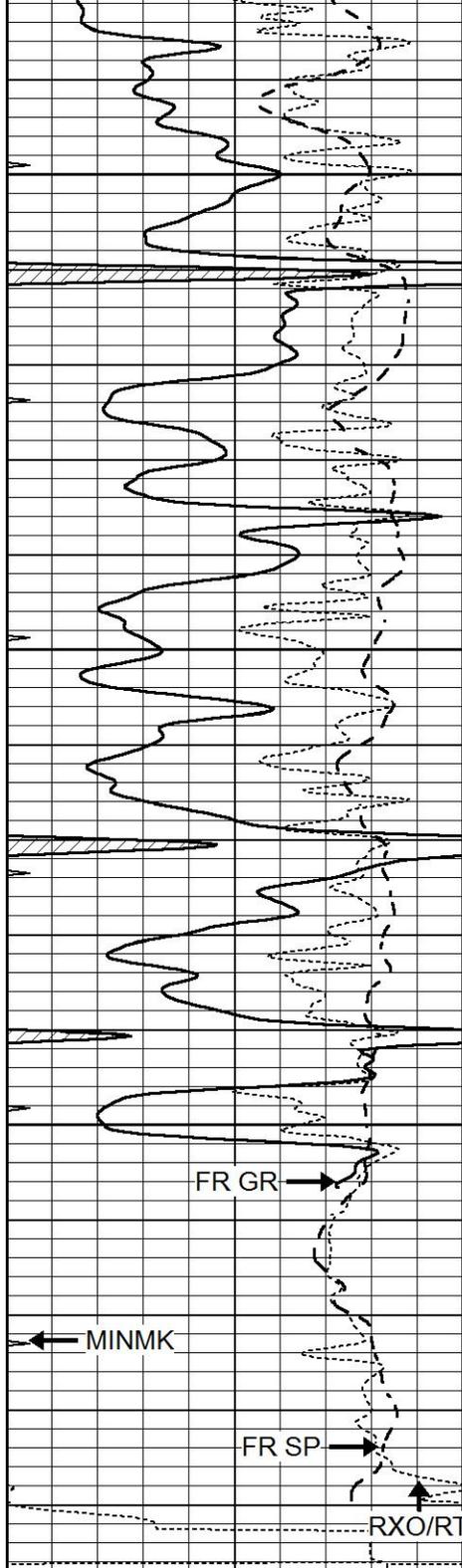
3250

3300

3350

3400





3450

3500

3550

FR GR →

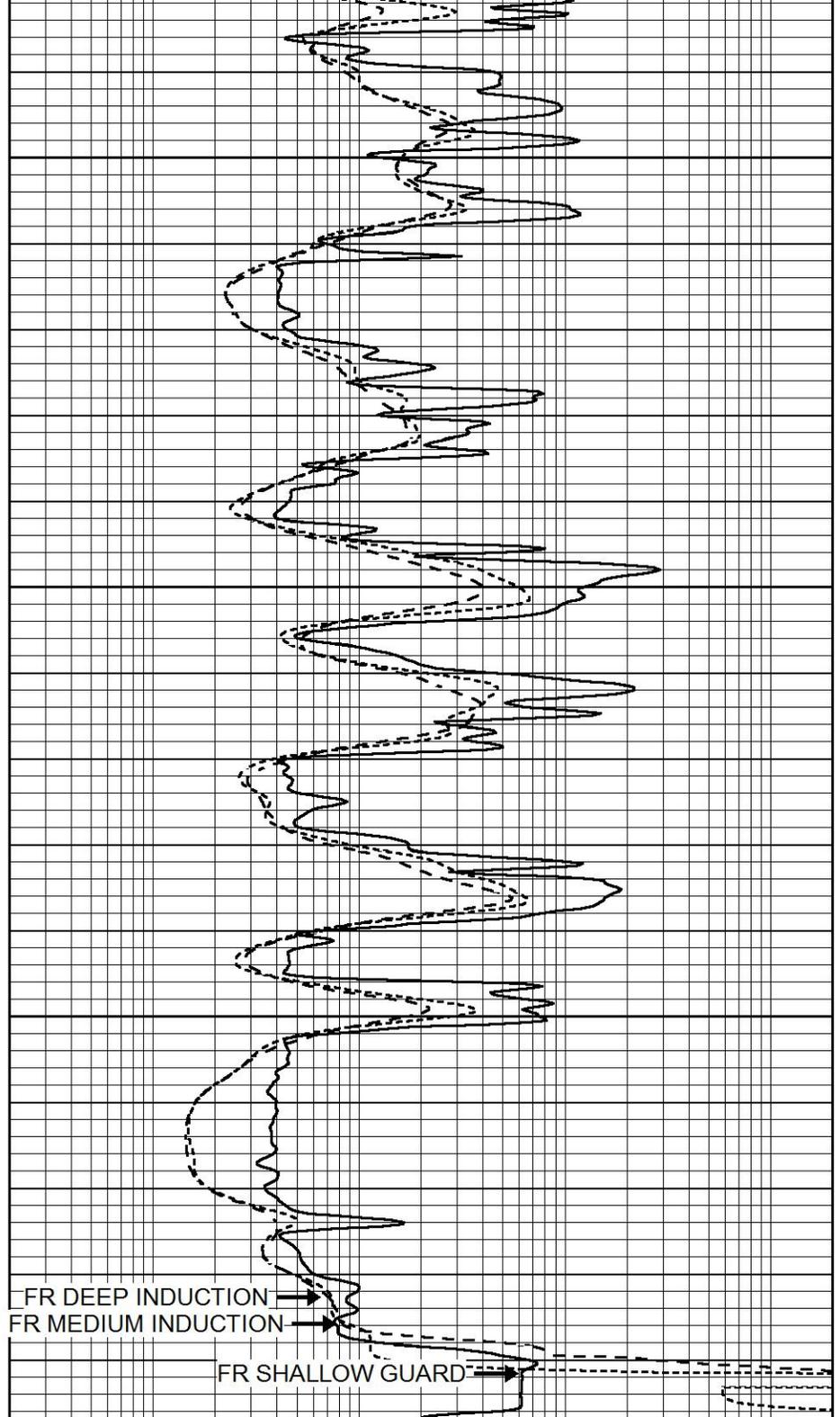
← MINMK

FR SP →

RXO/RT →

LTD 3594

0	GAMMA RAY (GAPI)	150
-100	SP (mV)	100
-250	Rxo/Rt	50
0	MINMK	20



FR DEEP INDUCTION →

FR MEDIUM INDUCTION →

FR SHALLOW GUARD →

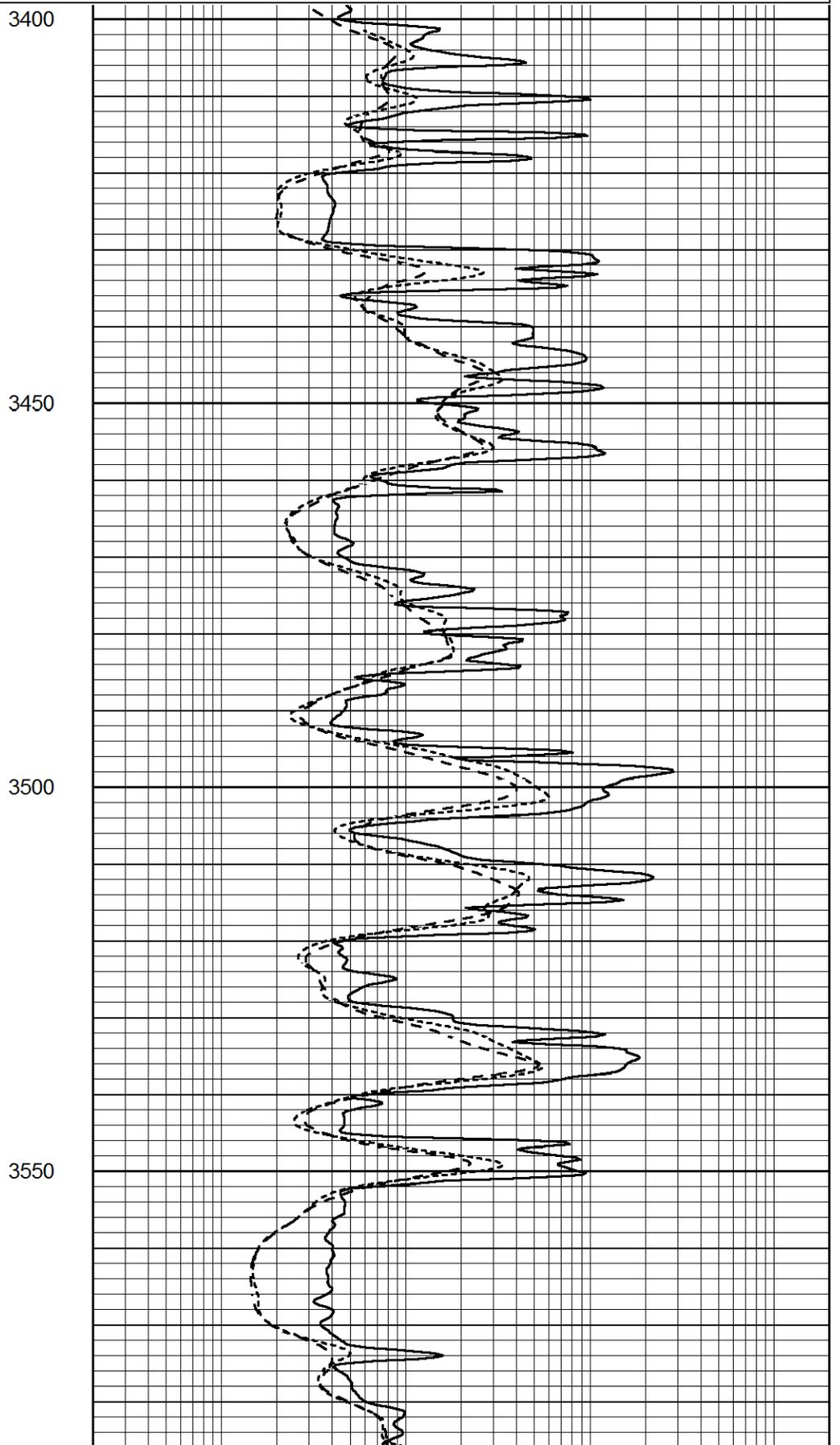
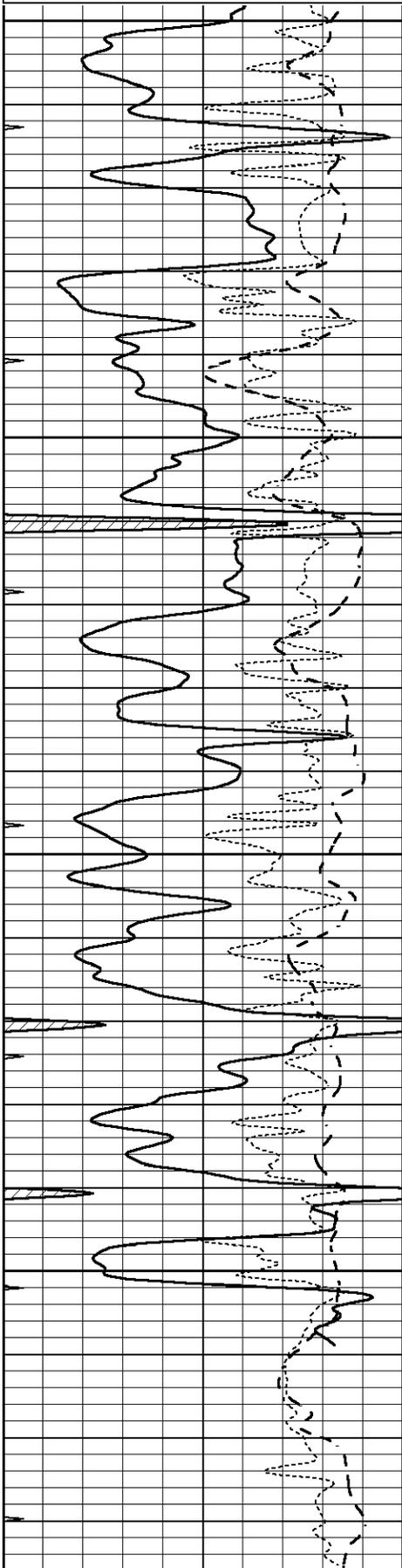
0.2	SHALLOW GUARD (Ohm-m)	2000
0.2	DEEP INDUCTION (Ohm-m)	2000
0.2	MEDIUM INDUCTION (Ohm-m)	2000

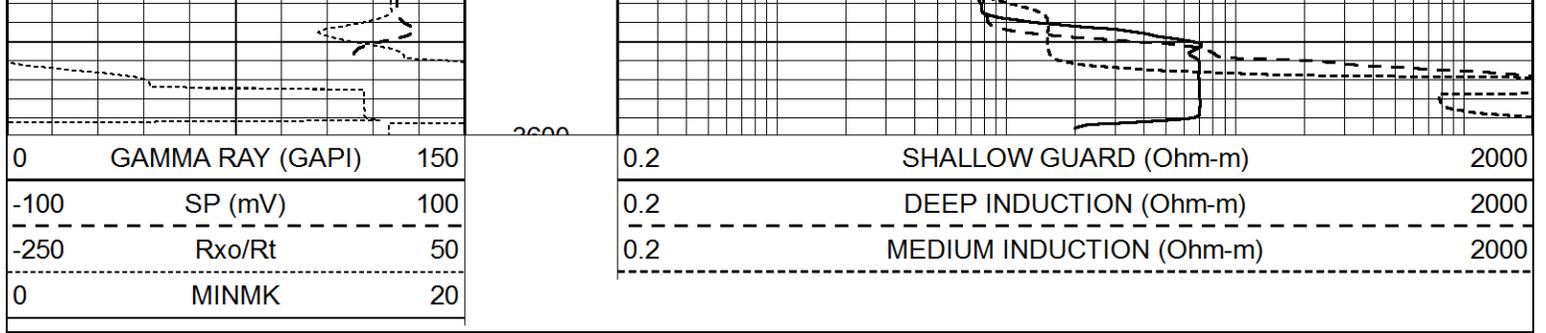


REPEAT SECTION

0	GAMMA RAY (GAPI)	150
-100	SP (mV)	100
-250	Rxo/Rt	50
0	MINMK	20

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





Calibration Report

Database File 6923ddn.db
 Dataset Pathname pass4.1M
 Dataset Creation Sat Sep 10 17:13:16 2022

Dual Induction Calibration Report

Serial-Model: PROBE8-DILG
 Surface Cal Performed: Sat Sep 10 16:14:54 2022
 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			V	References			Results	
	Air	Loop			Air	Loop		m	b
Deep	0.015	0.648		V	0.000	400.000	mmho/m	640.000	6.000
Medium	0.029	0.796		V	0.000	464.000	mmho/m	630.000	-6.000
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			mmho/m	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			mmho/m	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		

Litho Density Calibration Report
 Serial: 004 Model: PRB

Master Calibration

Performed Tue Aug 02 11:29:35 2022

	Background	Magnesium	Aluminum	Aluminum+Fe	
Window 1	1154.2	10019.5	3137.9	2795.6	cps
Window 2	1054.4	8507.6	2733.4	2469.5	cps

Window 2	1034.4	8597.0	2733.4	2409.5	cps
Window 3	902.3	5241.4	1832.1	1719.3	cps
Window 4	251.9	261.1	255.8	252.9	cps
Long Space	0.0	7543.2	1679.0	1415.0	cps
Short Space	4.4	2049.3	1321.7	1116.8	cps
Rho		1.7100	2.5900	0.0000	g/cc
Pe		2.0000	2.7500	5.7900	

Rib Angle : 43.7 Rib Slope : 0.957 Density/Spine Ratio : 0.562
 Spine Angle : 73.7 Spine Slope : 3.426 Spine Intercept : -17.2

Before Survey Verification

Performed Wed Dec 31 18:00:00 1969

Window 1	0.0	0.0	0.0	0.0	cps
Window 2	0.0	0.0	0.0	0.0	cps
Window 3	0.0	0.0	0.0	0.0	cps
Window 4	0.0	0.0	0.0	0.0	cps
Long Space	0.0	0.0	0.0	0.0	cps
Short Space	0.0	0.0	0.0	0.0	cps
Measured Rho		0.0000	0.0000	0.0000	g/cc
Measured Correction		0.0000	0.0000	0.0000	g/cc
Measured Pe			0.0000	0.0000	

After Survey Verification

Performed Wed Dec 31 18:00:00 1969

Window 1	0.0	0.0	0.0	0.0	cps
Window 2	0.0	0.0	0.0	0.0	cps
Window 3	0.0	0.0	0.0	0.0	cps
Window 4	0.0	0.0	0.0	0.0	cps
Long Space	0.0	0.0	0.0	0.0	cps
Short Space	0.0	0.0	0.0	0.0	cps
Measured Rho		0.0000	0.0000	0.0000	g/cc
Measured Correction		0.0000	0.0000	0.0000	g/cc
Measured Pe			0.0000	0.0000	

Compensated Neutron Calibration Report

Serial Number: 070808PMC
 Tool Model: NABORS

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: 070558
 Tool Model: OPEN_GR
 Performed: Mon Sep 05 14:32:31 2022

Calibrator Value: 1.0 GAPI

Background Reading:
Calibrator Reading:

0.0
1.0

cps
cps

Sensitivity:

0.3000

GAPI/cps