



DUAL INDUCTION LOG

Company	AUDERE EST FACERE	Company	AUDERE EST FACERE
Well	MAIDEN VOYAGE #1	Well	MAIDEN VOYAGE #1
Field	NA	Field	NA
County	ROOKS	County	ROOKS
State	KANSAS	State	KANSAS
Location:	API # : 15-163-24417-0000 1840' FSL & 1810' FWL	Other Services CDL/CNL MEL	
Permanent Datum	SEC 8 TWP 8S RGE 18W	Elevation	
Log Measured From	GROUND LEVEL Elevation 1984 KELLY BUSHING 8' A.G.L	K.B. 1982 D.F. 1980 G.L. 1984	
Drilling Measured From	KELLY BUSHING		
Date	1/6/21		
Run Number	ONE		
Depth Driller	3500		
Depth Logger	3498		
Bottom Logged Interval	3496		
Top Log Interval	00		
Casing Driller	8 5/8" @ 215		
Casing Logger	215		
Bit Size	7 7/8		
Type Fluid in Hole	CHEMICAL MUD	CHLORIDES 900 PPM	
Density / Viscosity	9.1/60		
pH / Fluid Loss	11.0/5.4		
Source of Sample	FLOWLINE		
Rm @ Meas. Temp	1.50 @ 62F		
Rmf @ Meas. Temp	1.12 @ 62F		
Rmc @ Meas. Temp	1.80 @ 62F		
Source of Rmf / Rmc	MEASUREMENT		
Rm @ BHT	0.83 @ 112F		
Time Circulation Stopped	2 HOURS		
Time Logger on Bottom	////		
Maximum Recorded Temperature	112F		
Equipment Number	3802		
Location	HAYS, KANSAS		
Recorded By	JASON CAPPELLUCCI		
Witnessed By	SPENCER STAAB	DJ REBEL	

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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

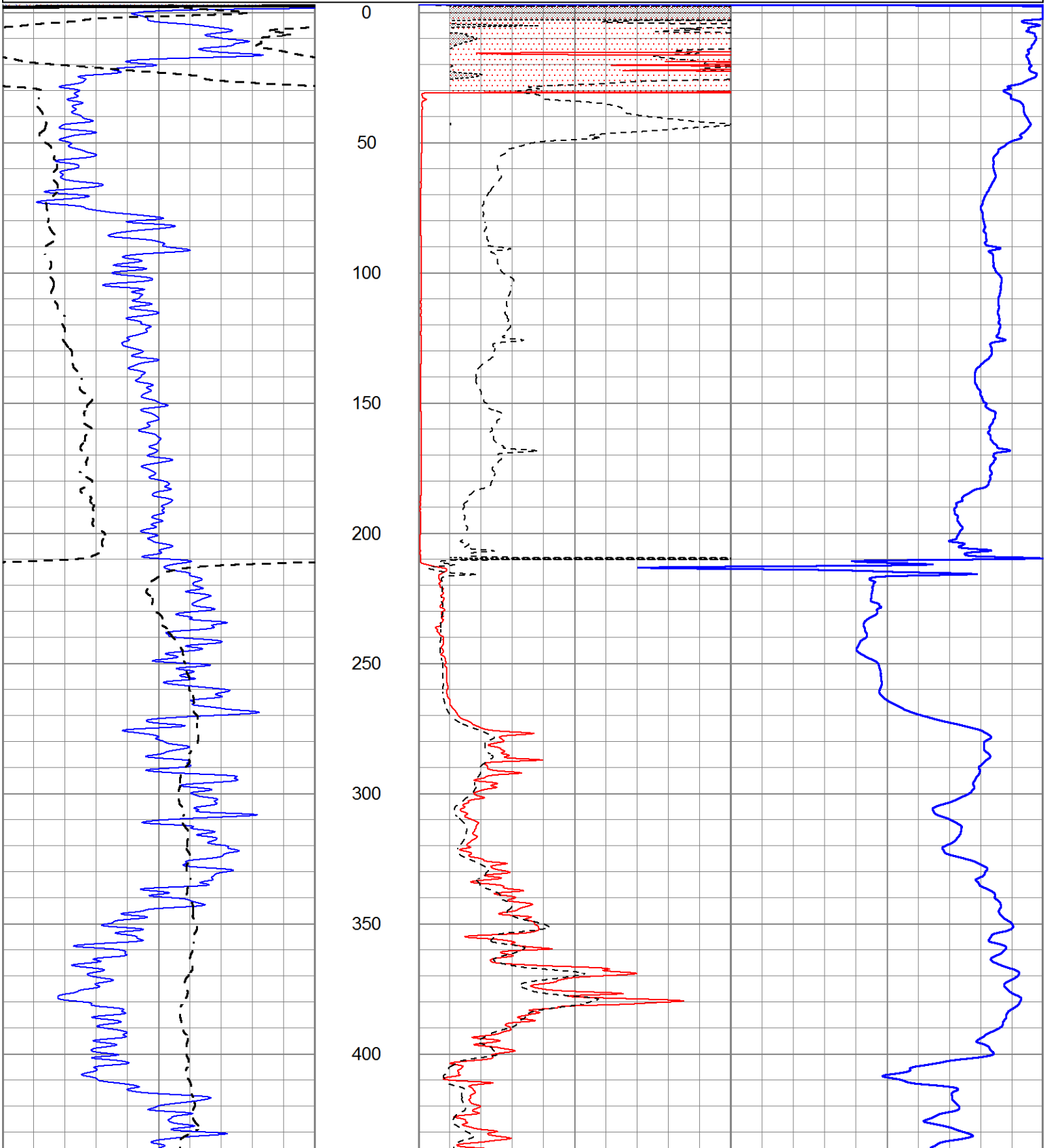
THANK YOU FOR USING ELI WIRELINE SERVICES, HAYS, KS. (785) 628-6395
DIRECTIONS
PLAINVILLE, KS., - WEST TO ROAD 14 - 14 NORTH - 1/4 EAST - NORTH INTO

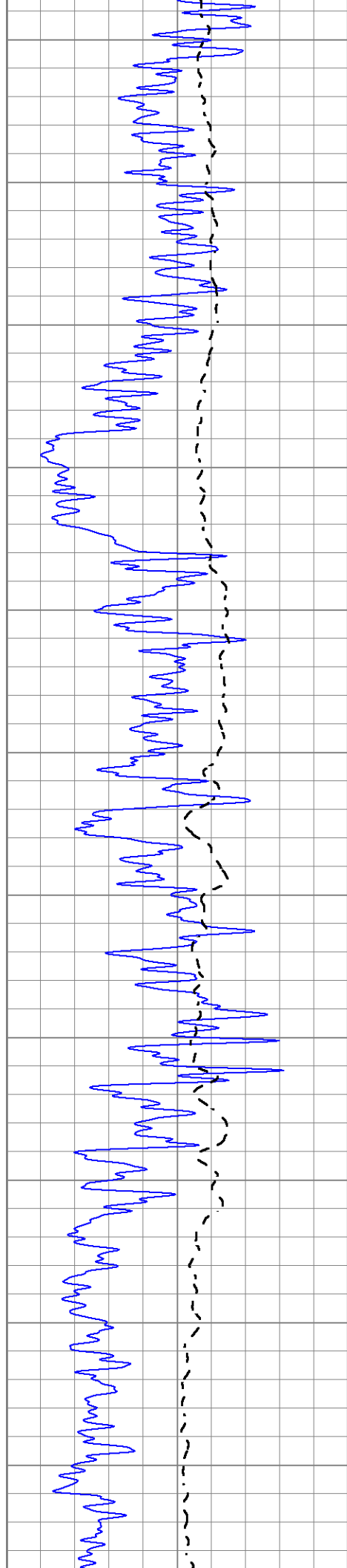


MAIN SECTION

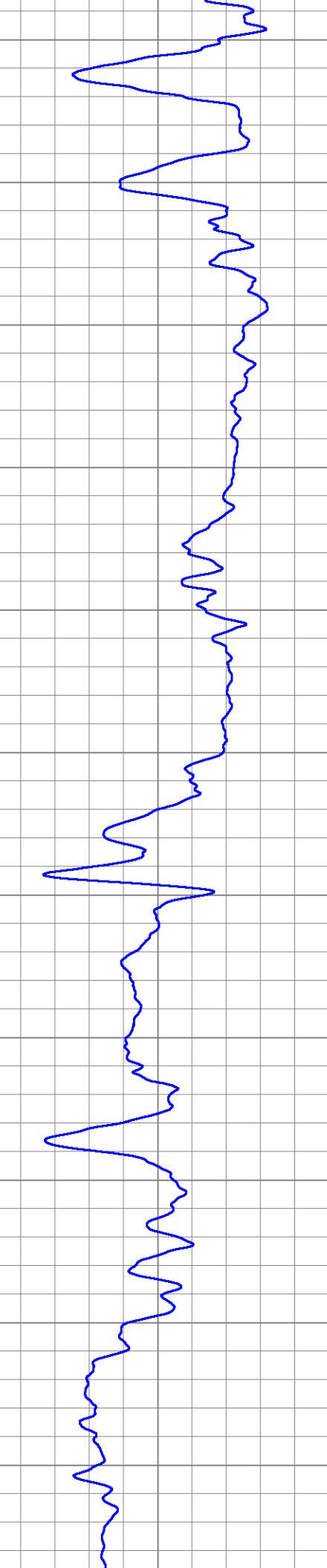
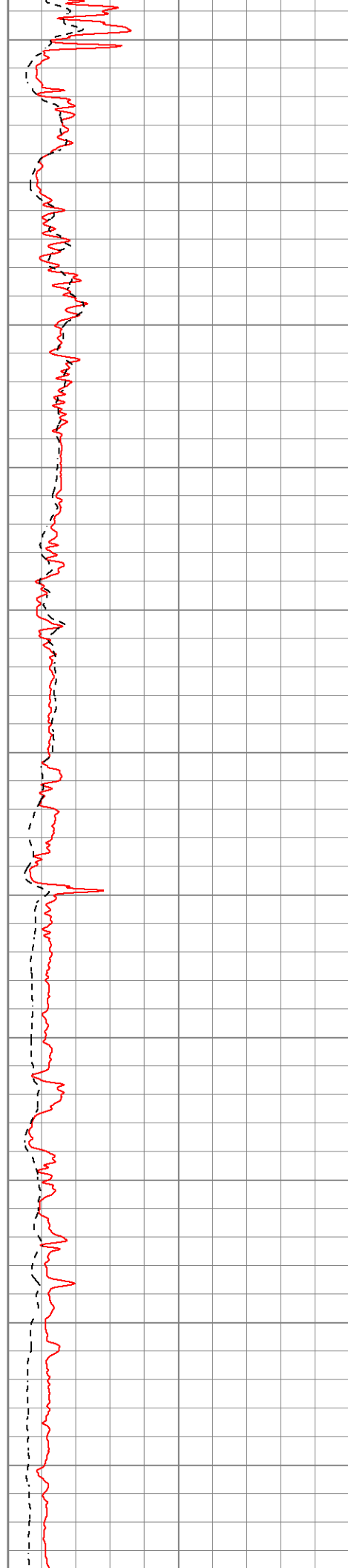
Database File	5201ddn.db
Dataset Pathname	pass3.2
Presentation Format	_dil2
Dataset Creation	Thu Jan 07 01:57:04 2021
Charted by	Depth in Feet scaled 1:600

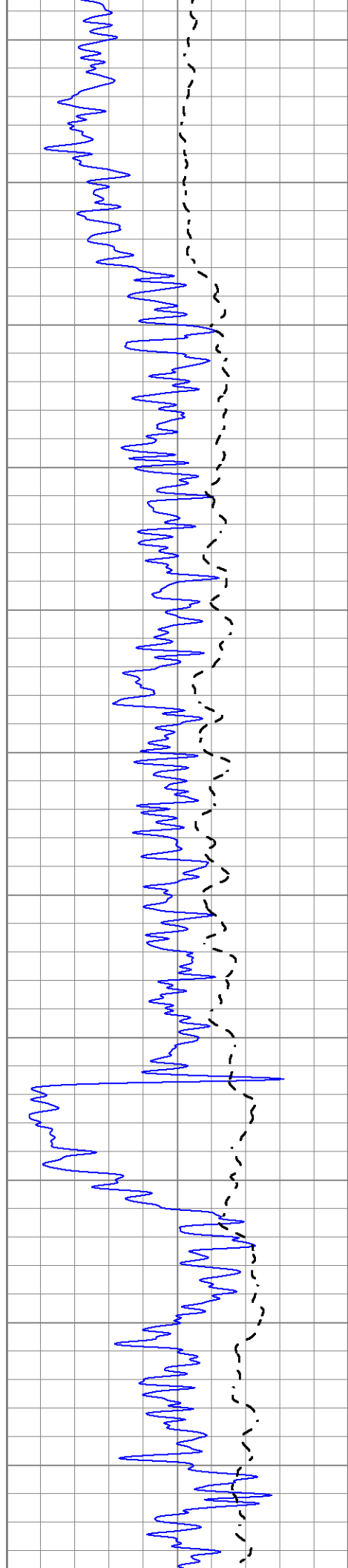
0	Gamma Ray (GAPI)	150	1000	CILD (mmho/m)	0
-100	SP (mV)	100	0	RLL3 (Ohm-m)	50
-----			0	Deep Induction (Ohm-m)	50
			50	RILD X10 (Ohm-m)	500
			50	RLL3 X10 (Ohm-m)	500



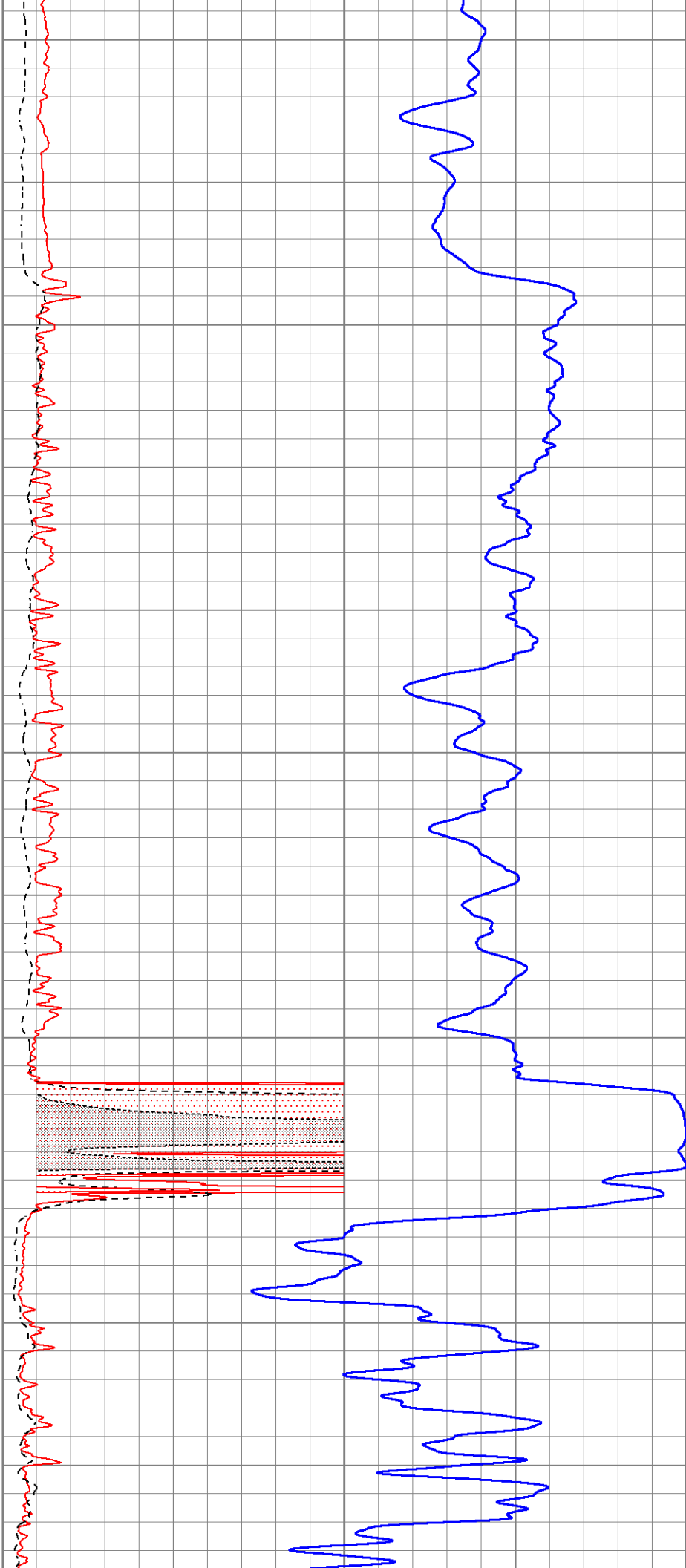


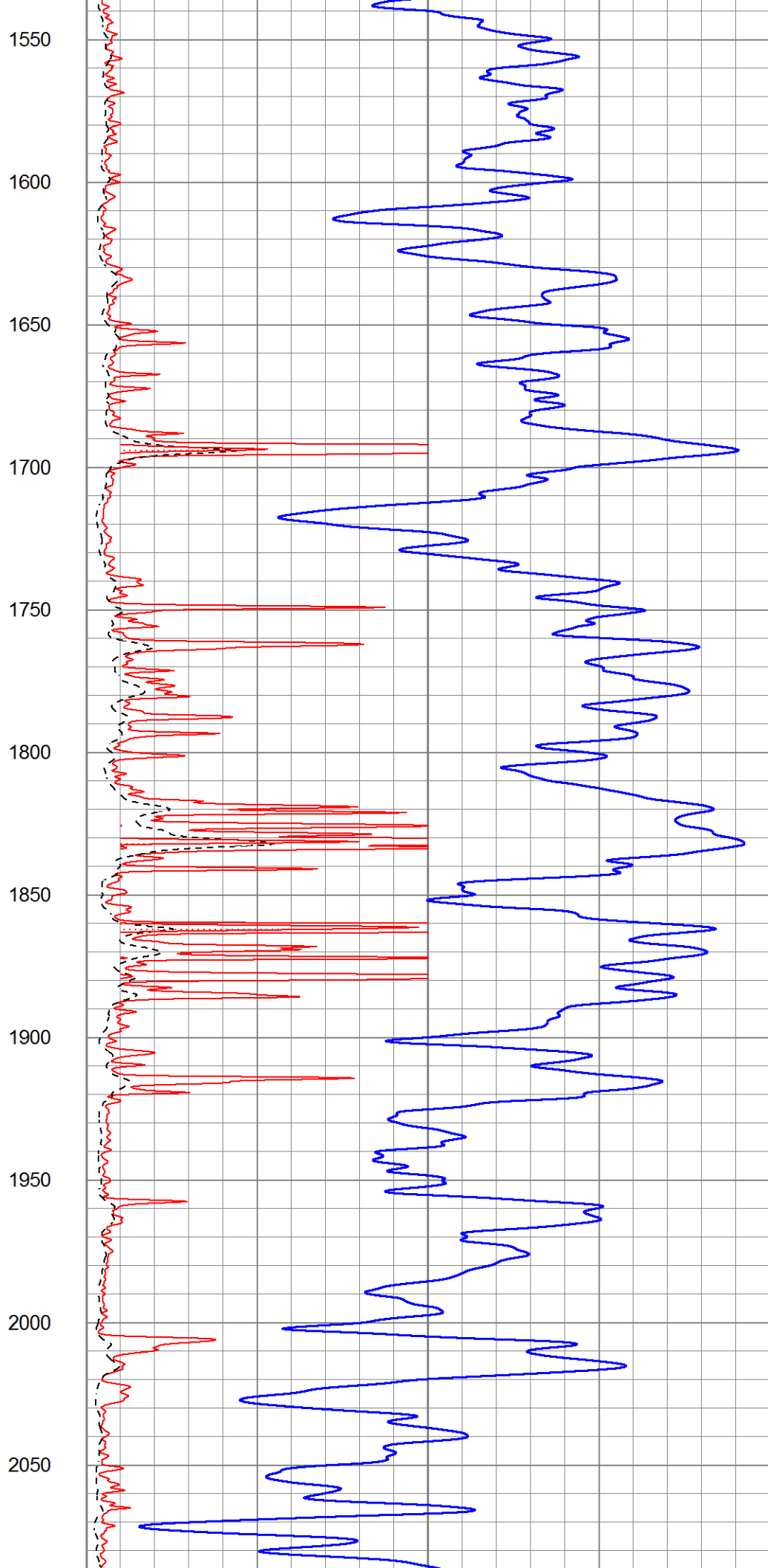
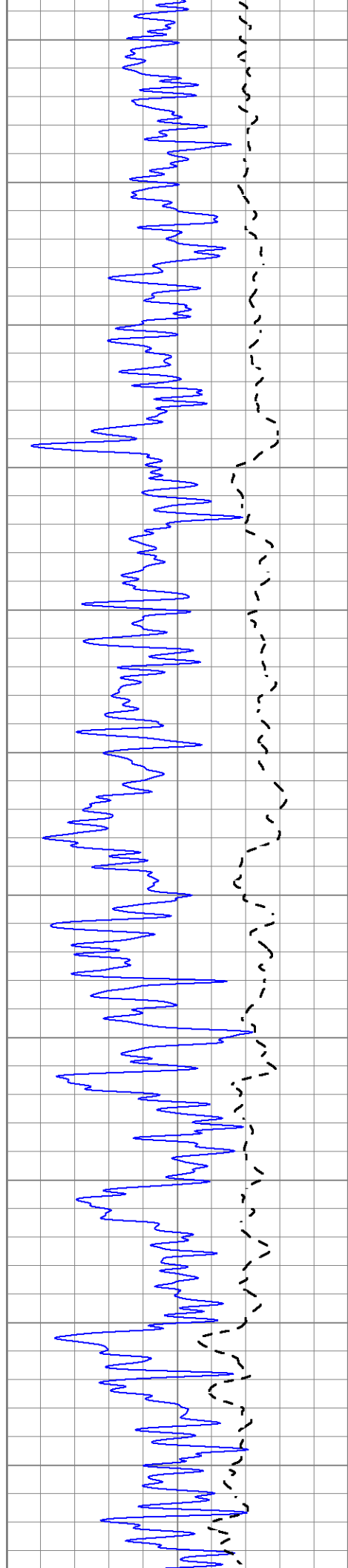
450
500
550
600
650
700
750
800
850
900
950

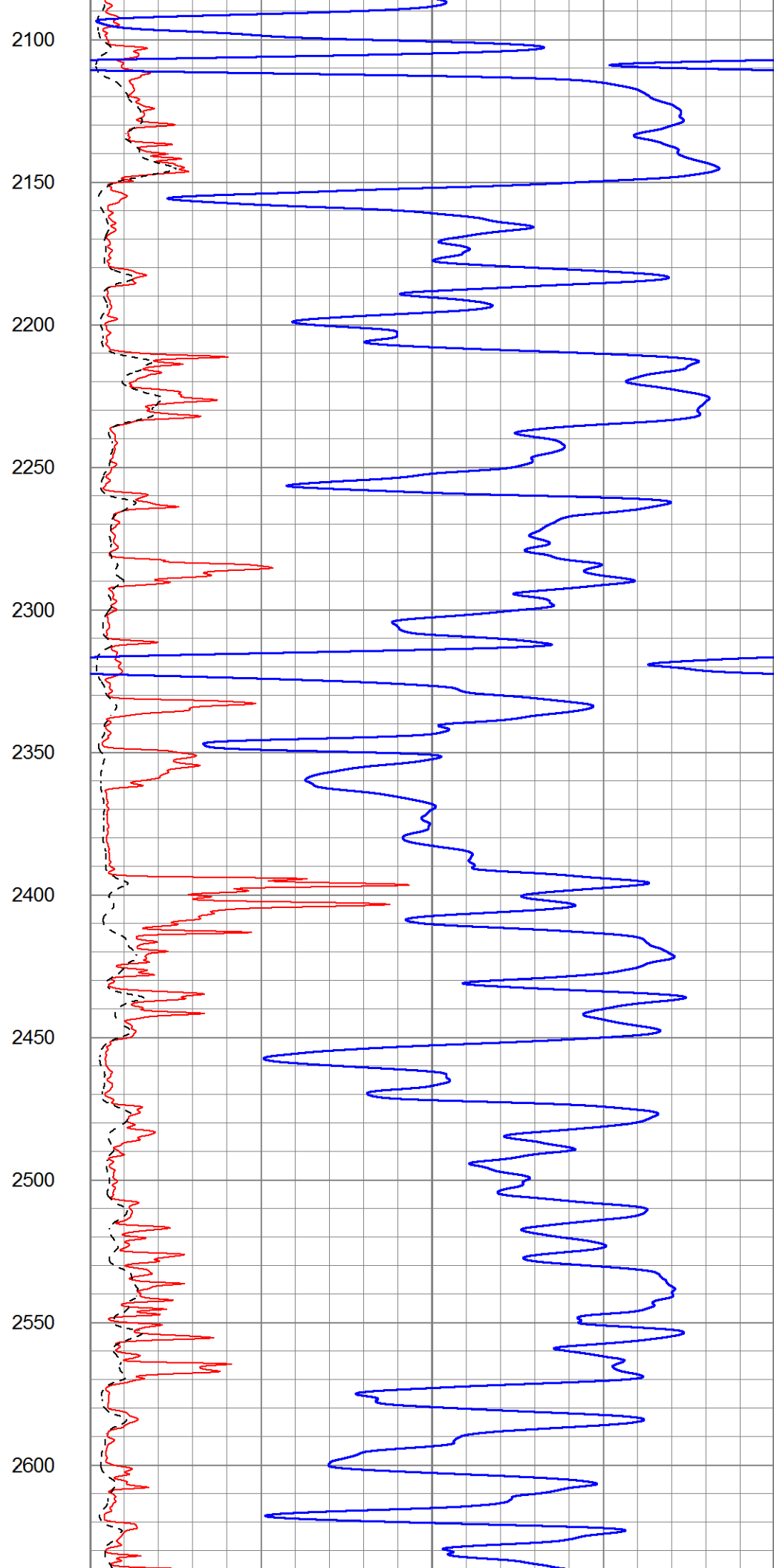
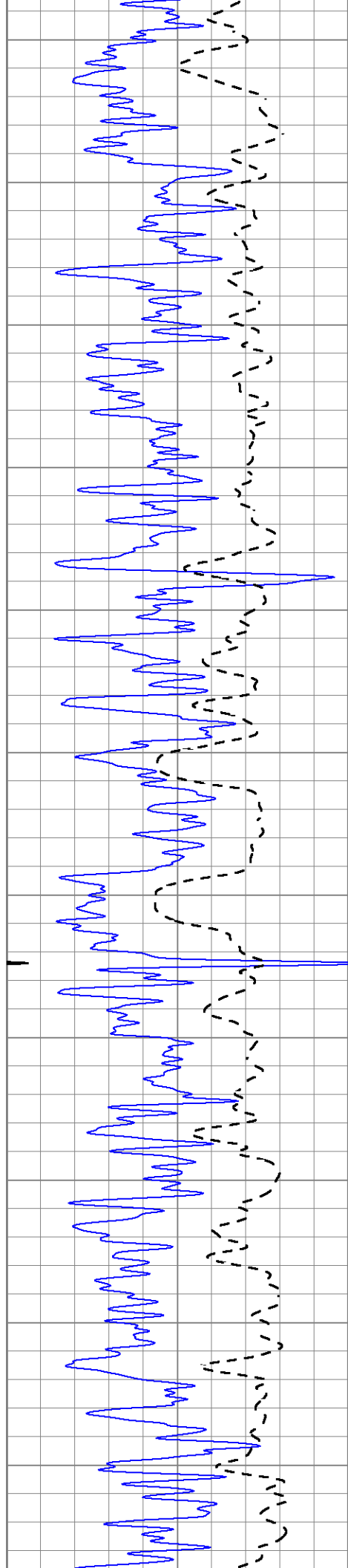


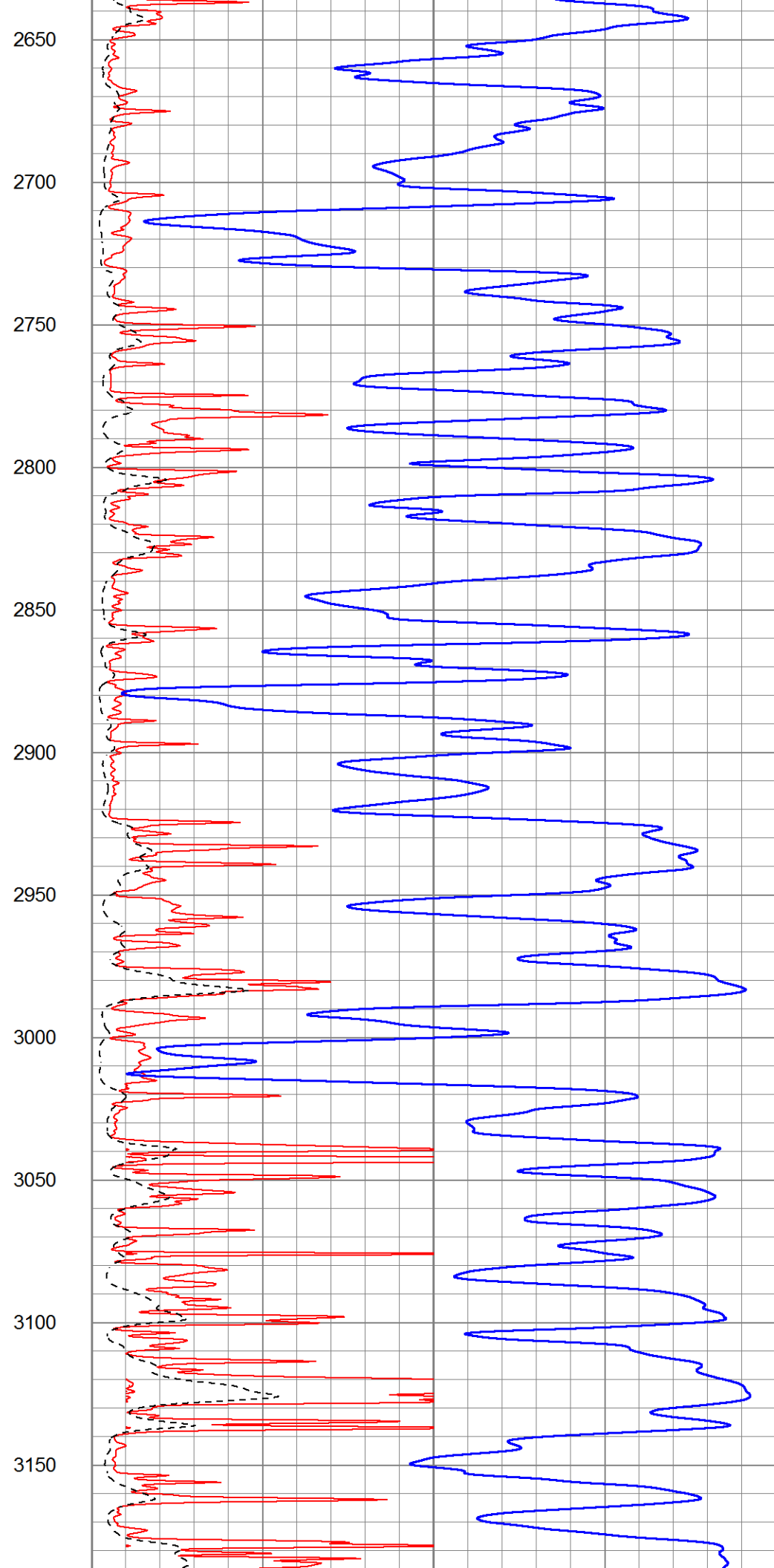
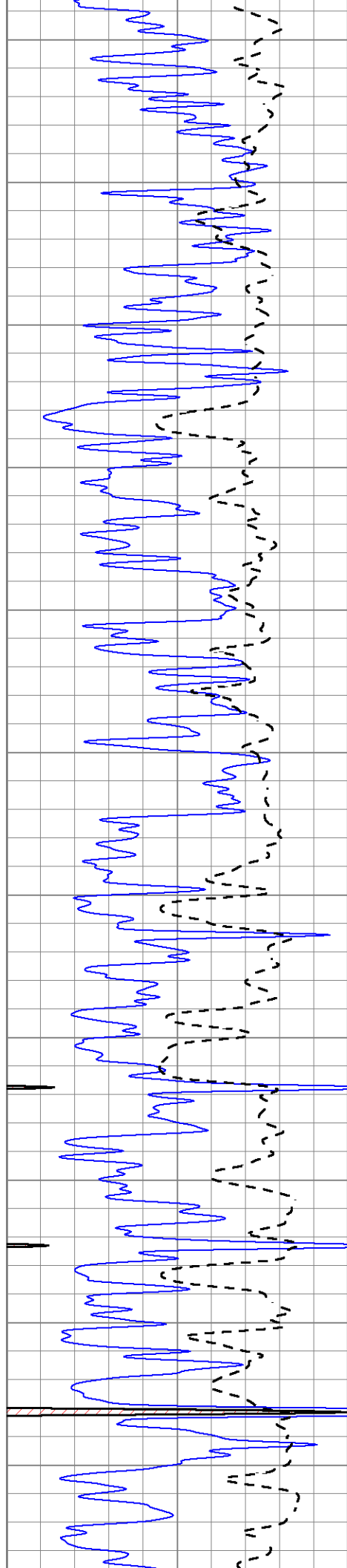


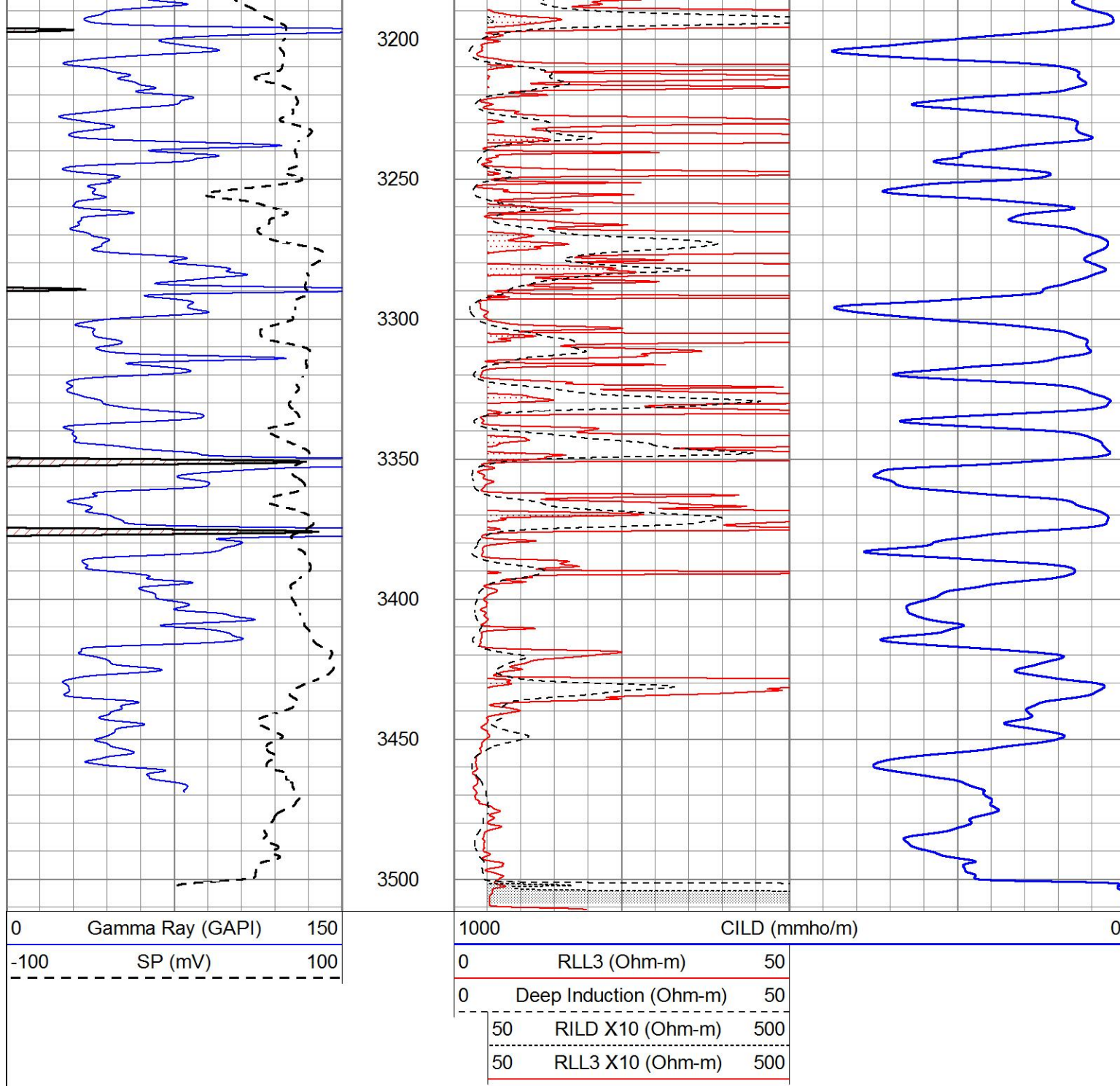
1000
1050
1100
1150
1200
1250
1300
1350
1400
1450
1500









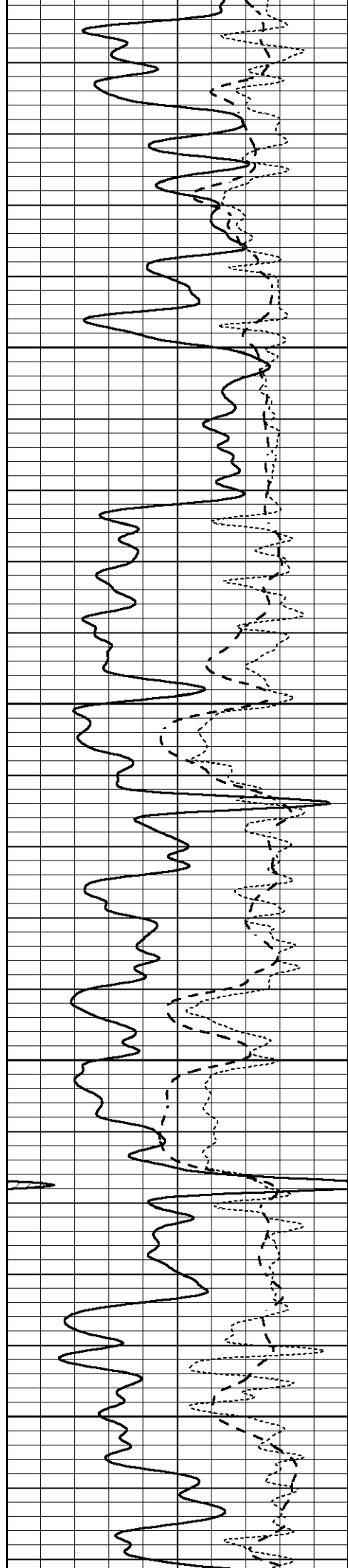


MAIN SECTION

Database File 5201ddn.db
 Dataset Pathname pass3.1
 Presentation Format _dil
 Dataset Creation Wed Jan 06 23:48:31 2021
 Charted by Depth in Feet scaled 1:240

0	GAMMA RAY (GAPI)	150	0.2	SHALLOW GUARD (Ohm-m)	2000
-100	SP (mV)	100	0.2	MEDIUM INDUCTION (Ohm-m)	2000
-250	Rxo/Rt	50	0.2	DEEP INDUCTION (Ohm-m)	2000



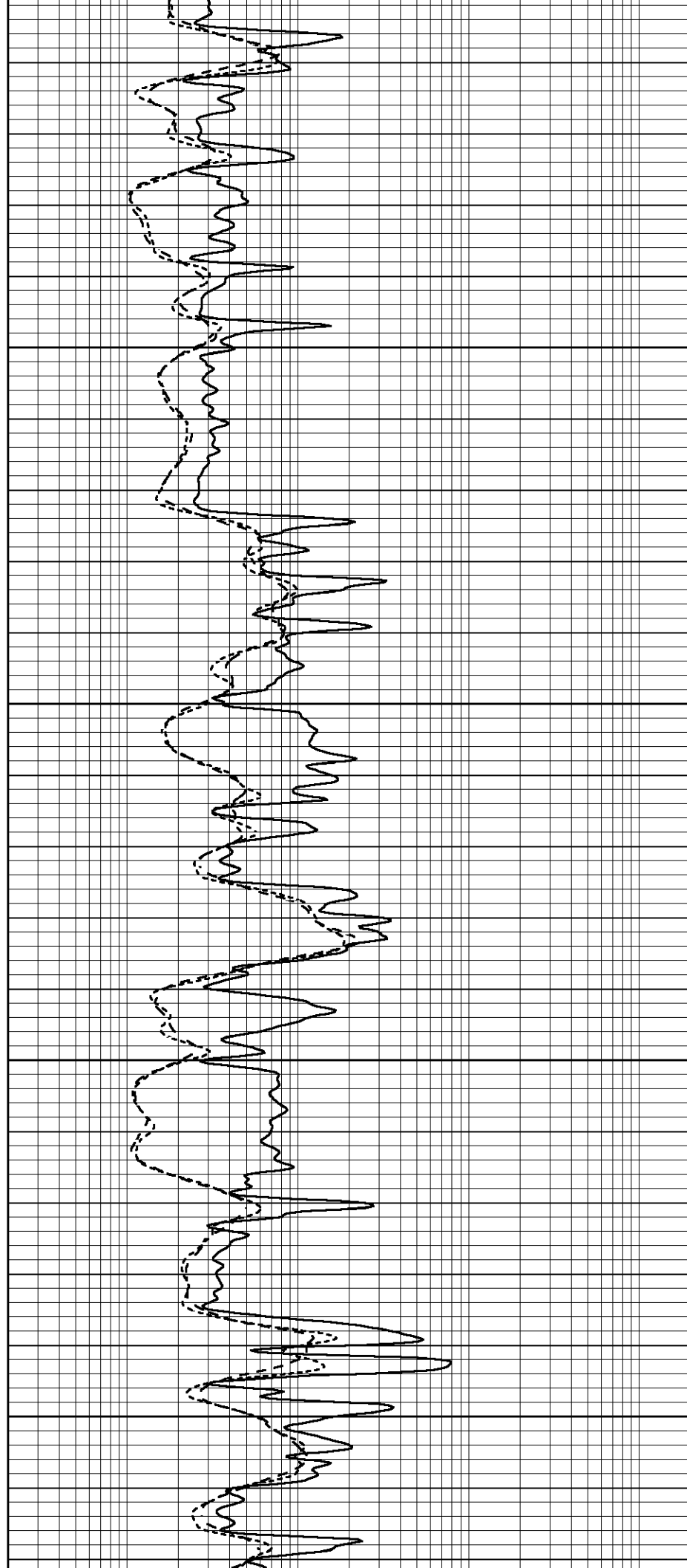


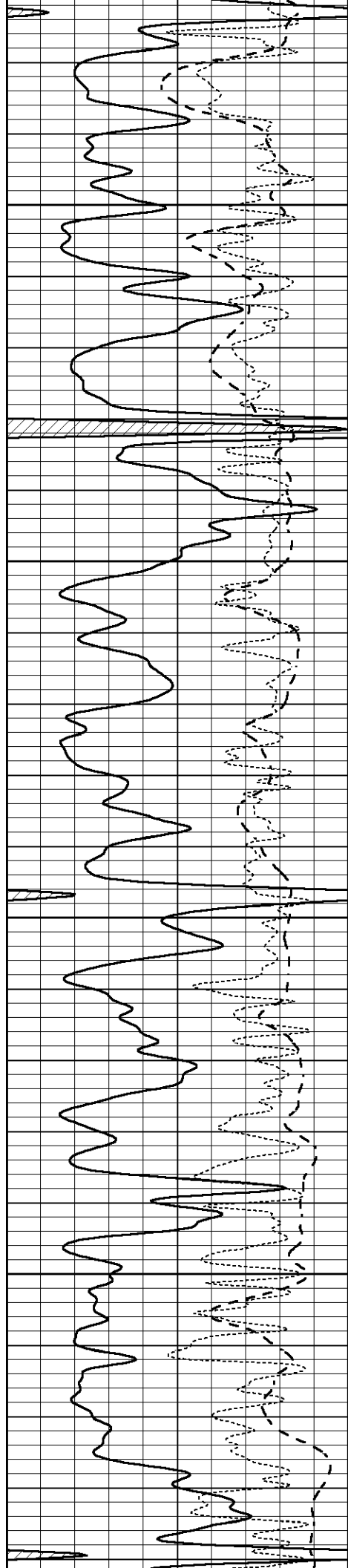
2900

2950

3000

3050



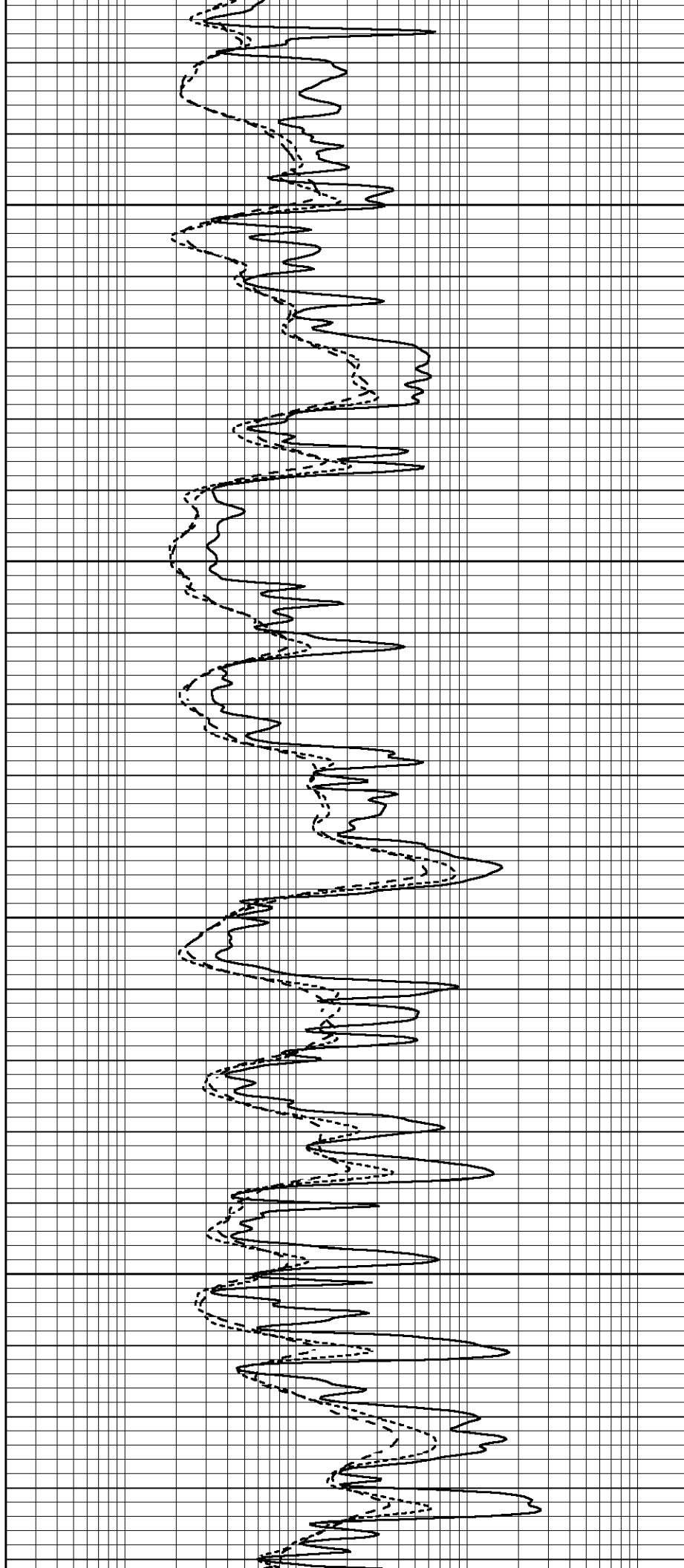


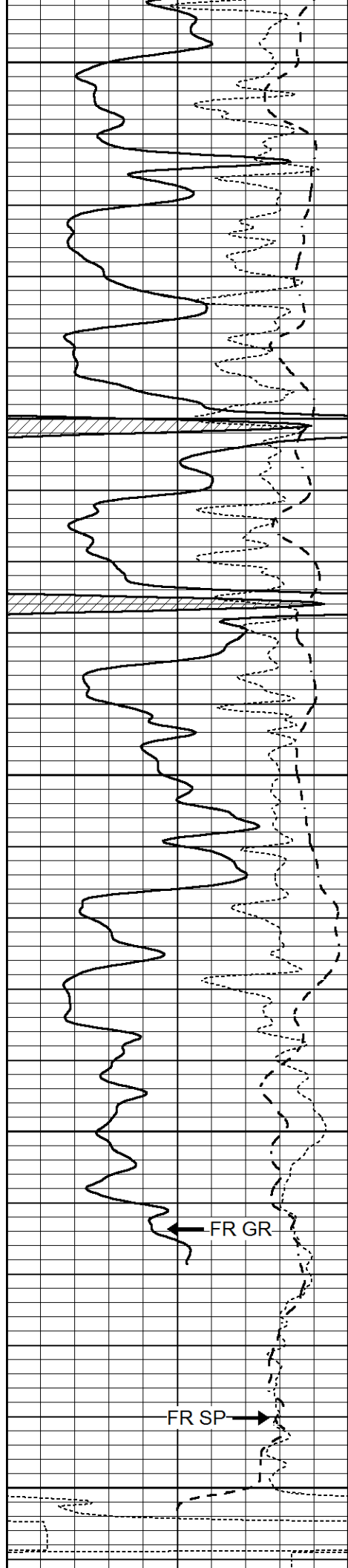
3100

3150

3200

3250





3300

3350

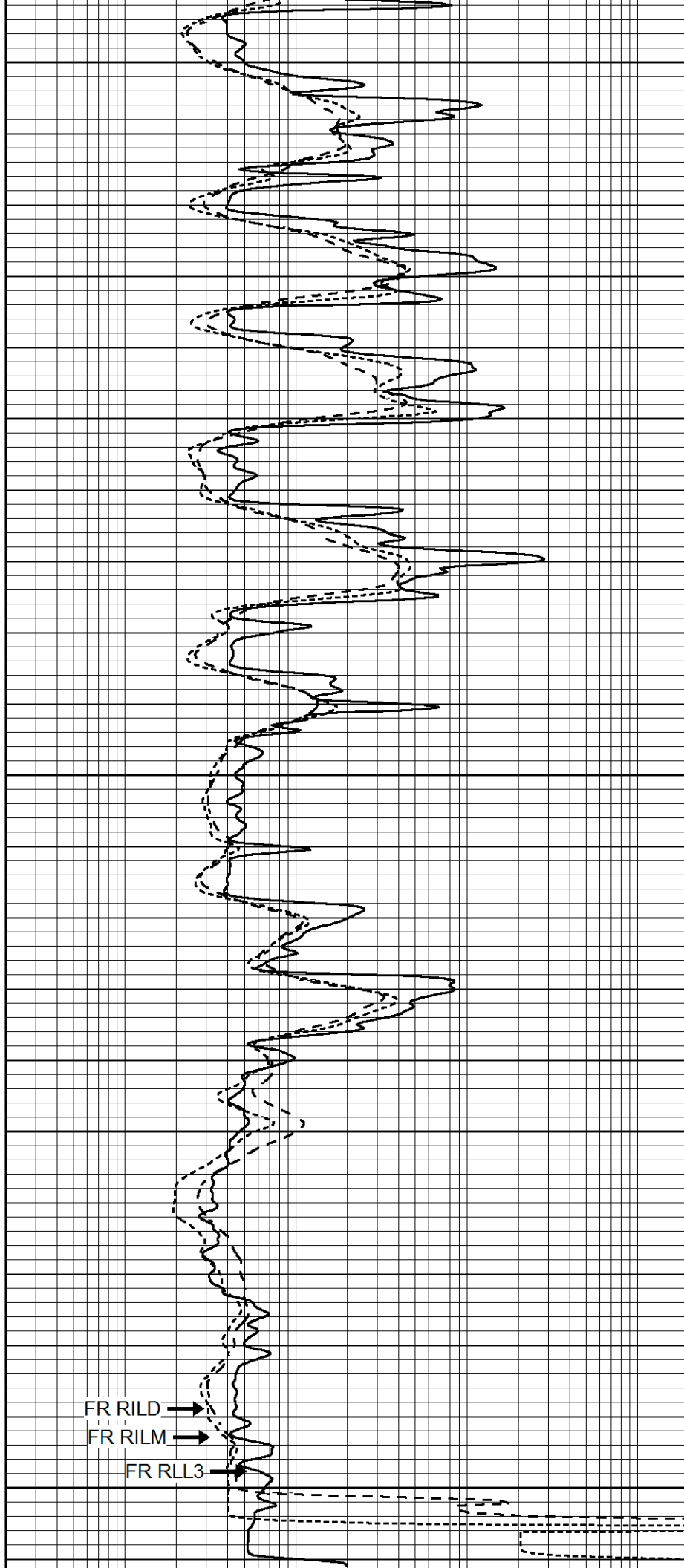
3400

3450

FR GR

FR SP

LTD 3498
3300



FR RILD

FR RILM

FR RLL3

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

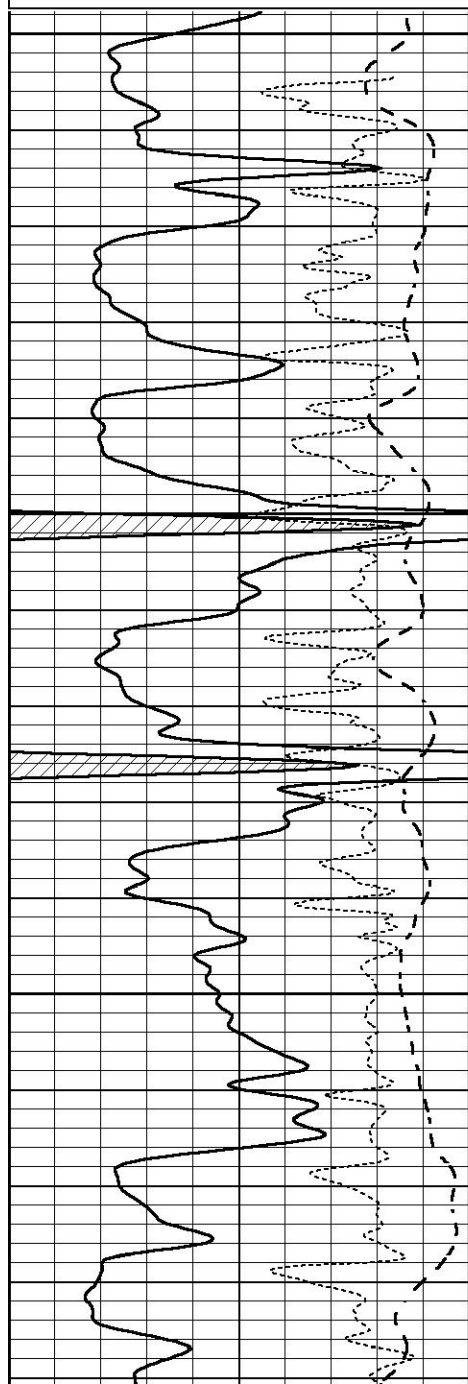


REPEAT SECTION

Database File 5201ddn.db
 Dataset Pathname pass2.1
 Presentation Format _dil
 Dataset Creation Wed Jan 06 23:47:48 2021
 Charted by Depth in Feet scaled 1:240

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

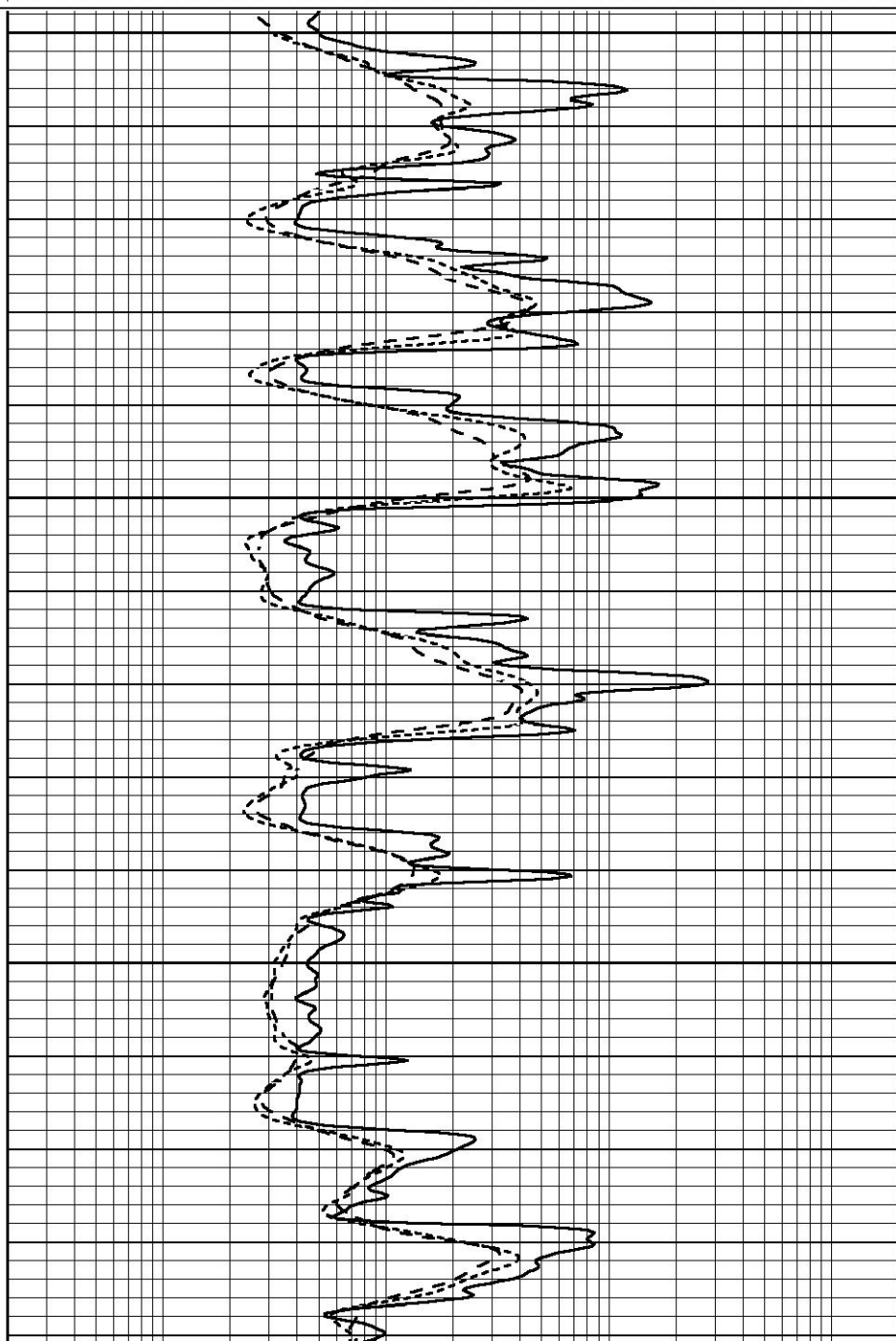
0.2	SHALLOW GUARD (Ohm-m)	2000
0.2	MEDIUM INDUCTION (Ohm-m)	2000
0.2	DEEP INDUCTION (Ohm-m)	2000

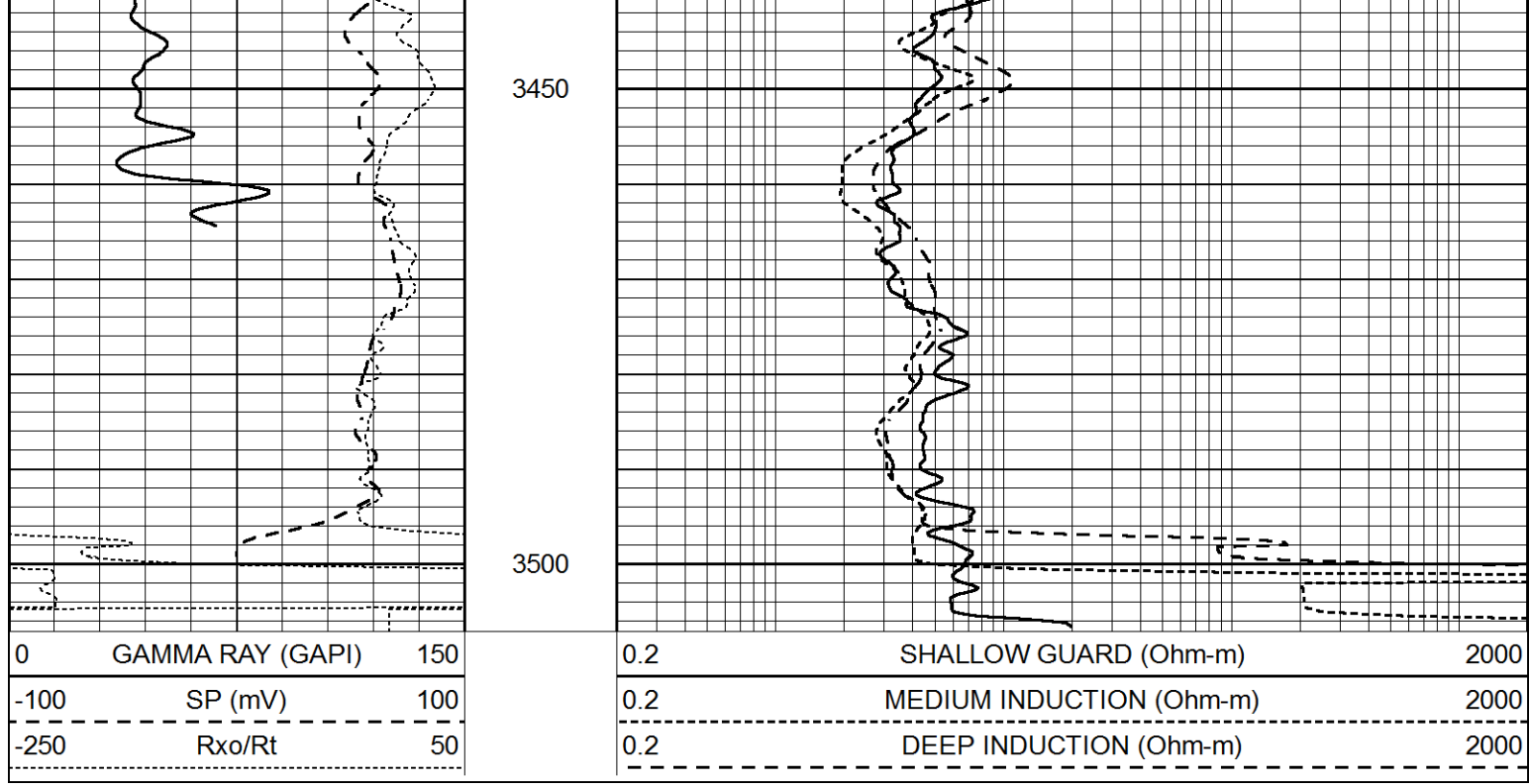


3300

3350

3400





Calibration Report									
Database File	5201ddn.db								
Dataset Pathname	pass2.1								
Dataset Creation	Wed Jan 06 23:47:48 2021								
Dual Induction Calibration Report									
Serial-Model:				FW1410-55-Probe					
Surface Cal Performed:				Tue Feb 19 11:44:18 2019					
Downhole Cal Performed:				Tue Feb 19 11:44:24 2019					
After Survey Verification Performed:				Tue Feb 19 11:44:27 2019					
Surface Calibration									
Readings				References			Results		
Loop:	Air	Loop		Air	Loop		m	b	
Deep	0.011	0.656	V	1.000	400.000	mmho/m	618.595	-5.524	
Medium	-0.000	0.731	V	1.000	464.000	mmho/m	632.856	1.197	
Internal:	Zero	Cal		Zero	Cal		m	b	
Deep	0.007	0.649	V	0.000	400.000	mmho/m	623.784	-4.595	
Medium	0.004	0.743	V	0.000	464.000	mmho/m	627.284	-2.251	
Downhole Calibration									
Readings				References			Results		
	Zero	Cal		Zero	Cal		m'	b'	
Deep	-0.824	395.917	mmho/m	-0.976	397.550	mmho/m	1.004	-0.149	
Medium	3.565	471.327	mmho/m	3.468	471.590	mmho/m	1.001	-0.099	
LL3		7.503	V		1500.000	Ohm-m			
		0.001	V		20.000	Ohm-m			
		-7.481	V		3745.000	mmho-m			
After Survey Verification									
Readings				Targets			Results		
	Zero	Cal		Zero	Cal		m'	b'	

Deep	0.000	0.000	mmho/m	-0.824	395.917	mmho/m	1.000	0.000
Medium	0.000	0.000	mmho/m	3.565	471.327	mmho/m	1.000	0.000
LL3		0.000	Ohm-m		1500.000	Ohm-m		
		0.000	Ohm-m		20.000	Ohm-m		
		0.000	mmho-m		3745.000	mmho-m		
Litho Density Calibration Report Serial: 140703 Model: V4_10P Source Number: 74GBq-19								
Master Calibration			Performed: Wed Dec 02 12:04:44 2020					
	Background	Aluminum	Magnesium					
Window 1	595.38	5386.50	23898.92	cps				
Window 2	52.78	1248.21	5993.75	cps				
Window 4	251.36	1200.30	5155.55	cps				
Window 5	545.15	9066.30	17240.12	cps				
Window 6	43.35	1491.73	2929.24	cps				
Window 8	258.76	2917.82	5450.26	cps				
Bulk Density	-	2.6020	1.6830	g/cc				
Pe	-	3.0000	2.5070	b/e				
LS Alpha:	: -1.8726	SS Alpha:	: -0.7656	LS CPE:	: 1.0742			
LS Beta:	: 127345.0723	SS Beta:	: 20293.3834	SS CPE:	: 1.5427			
Before Survey Background Counts Verification			Performed: Wed Dec 31 18:00:00 1969					
Window 1	0.00	cps						
Window 2	0.00	cps						
Window 4	0.00	cps						
Window 5	0.00	cps						
Window 6	0.00	cps						
Window 8	0.00	cps						
After Survey Background Counts Verification			Performed: Wed Dec 31 18:00:00 1969					
Window 1	0.00	cps						
Window 2	0.00	cps						
Window 4	0.00	cps						
Window 5	0.00	cps						
Window 6	0.00	cps						
Window 8	0.00	cps						
Lithodensity Caliper Calibration			Performed: Wed Dec 02 12:04:44 2020					
Results	Readings	References (in)						
Low	High	Low	High		Gain		Offset	
8003.0	11159.9	8.0	14.0		0.0		-7.2	
Before Survey Caliper Verification			Performed:					
	Reference	Reading						
Caliper (in)								
After Survey Caliper Verification			Performed:					

	Reference	Reading
Caliper (in)		
Compensated Neutron Calibration Report		
Serial Number:		080621PMC
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:	7	
Tool Model:	Probe1	
Performed:	Tue Dec 10 10:02:55 2019	
Calibrator Value:	1.0	GAPI
Background Reading:	0.0	cps
Calibrator Reading:	1.0	cps
Sensitivity:	0.4800	GAPI/cps