



DUAL INDUCTION LOG

Company	FOURWINDS OIL CORPORATION
Well	KEMPER B #3
Field	RAY WEST
County	NORTON
State	KANSAS
Location:	API # : 15-137-20760-0000 1650' FNL & 990' FWL NE - SW - NW SEC 23 TWP 5S RGE 21W
Permanent Datum Log Measured From Drilling Measured From	GROUND LEVEL KELLY BUSHING 7' A.G.L. KELLY BUSHING
Elevation CDL/CNL MEL	2184
K.B. 2191 D.F. 2189 G.L. 2184	
Date	4/9/22
Run Number	ONE
Depth Driller	3625
Depth Logger	3624
Bottom Logged Interval	3622
Top Log Interval	00
Casing Driller	8 5/8"@222'
Casing Logger	222
Bit Size	7 7/8"
Type Fluid in Hole	CHEMICAL MUD
Density / Viscosity	7.1/70
pH / Fluid Loss	11.0/7.8
Source of Sample	FLOWLINE
Rm @ Meas. Temp	1.70@68F
Rmf @ Meas. Temp	1.28@68F
Rmc @ Meas. Temp	2.04@68F
Source of Rmf / Rmc	MEASUREMENT
Rm @ BHT	1.02@113F
Time Circulation Stopped	8 HOURS
Time Logger on Bottom	8:30 P.M.
Maximum Recorded Temperature	113F
Equipment Number	922339
Location	HAYS, KANSAS
Recorded By	JEFF LUEBBERS
Witnessed By	CAMERON BRIN
COLE ROBBEN	

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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.

15-137-20760-0000

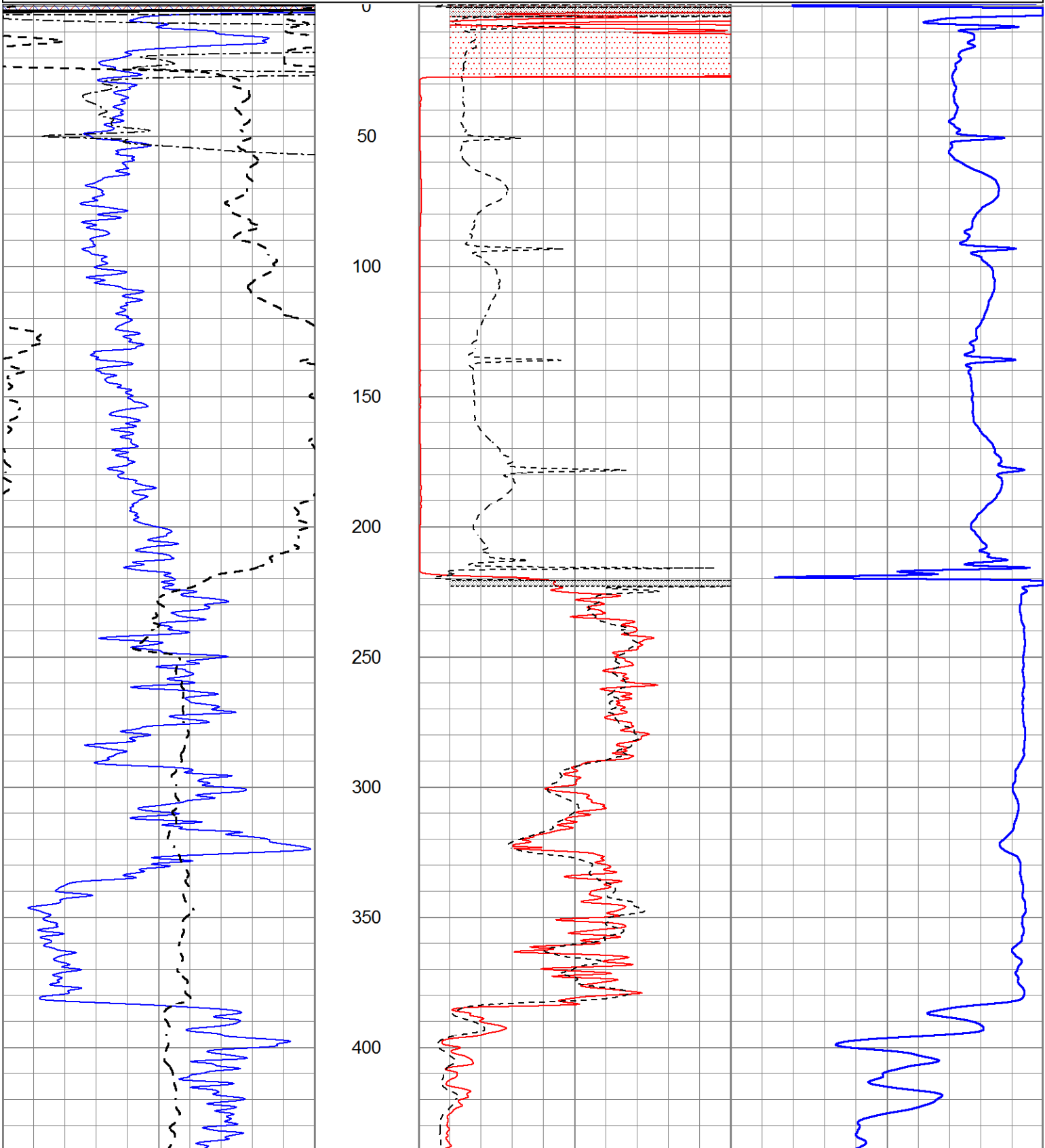
Comments

THANK YOU FOR USING ELI WIRELINE HAYS, KANSAS (785) 628-6395
DIRECTIONS
LOGAN KS. 5 W ON HWY 9 TO RD E12, 3 S TO DEAD END, E INTO CATTLE GUARD

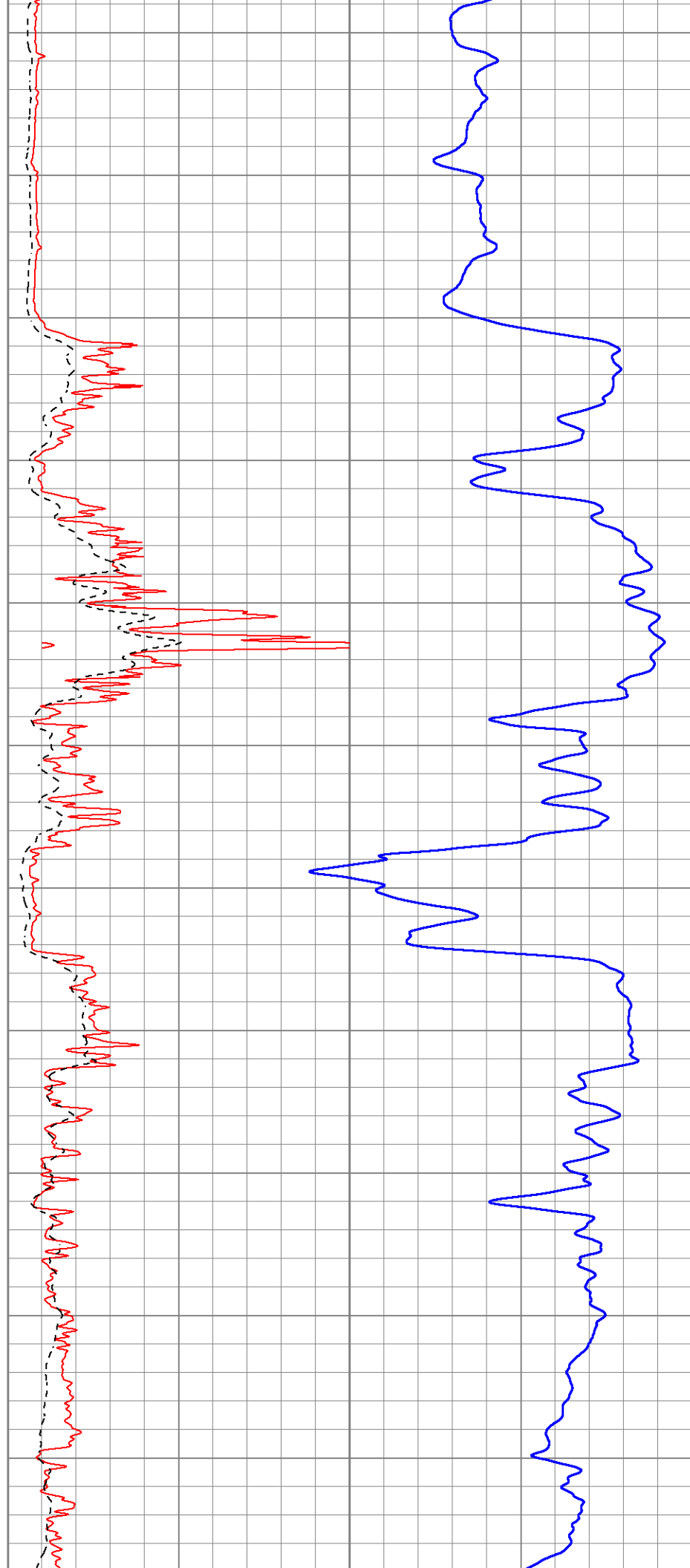
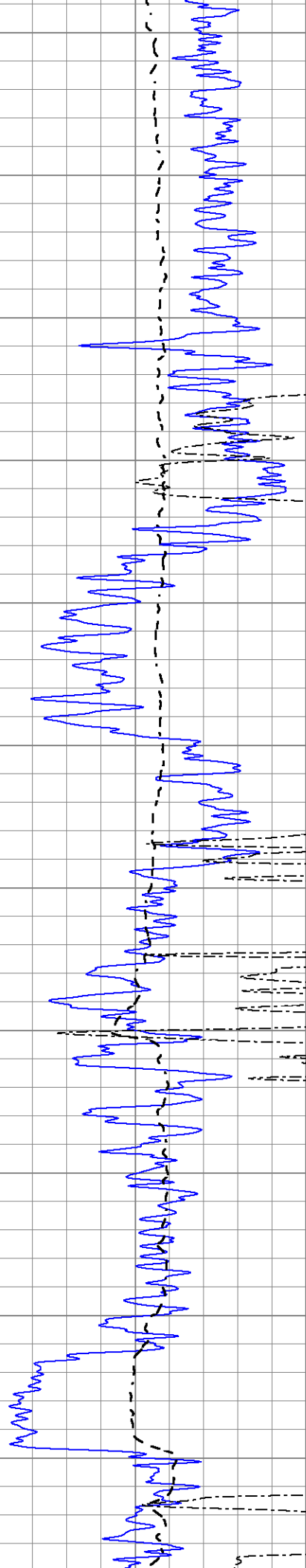


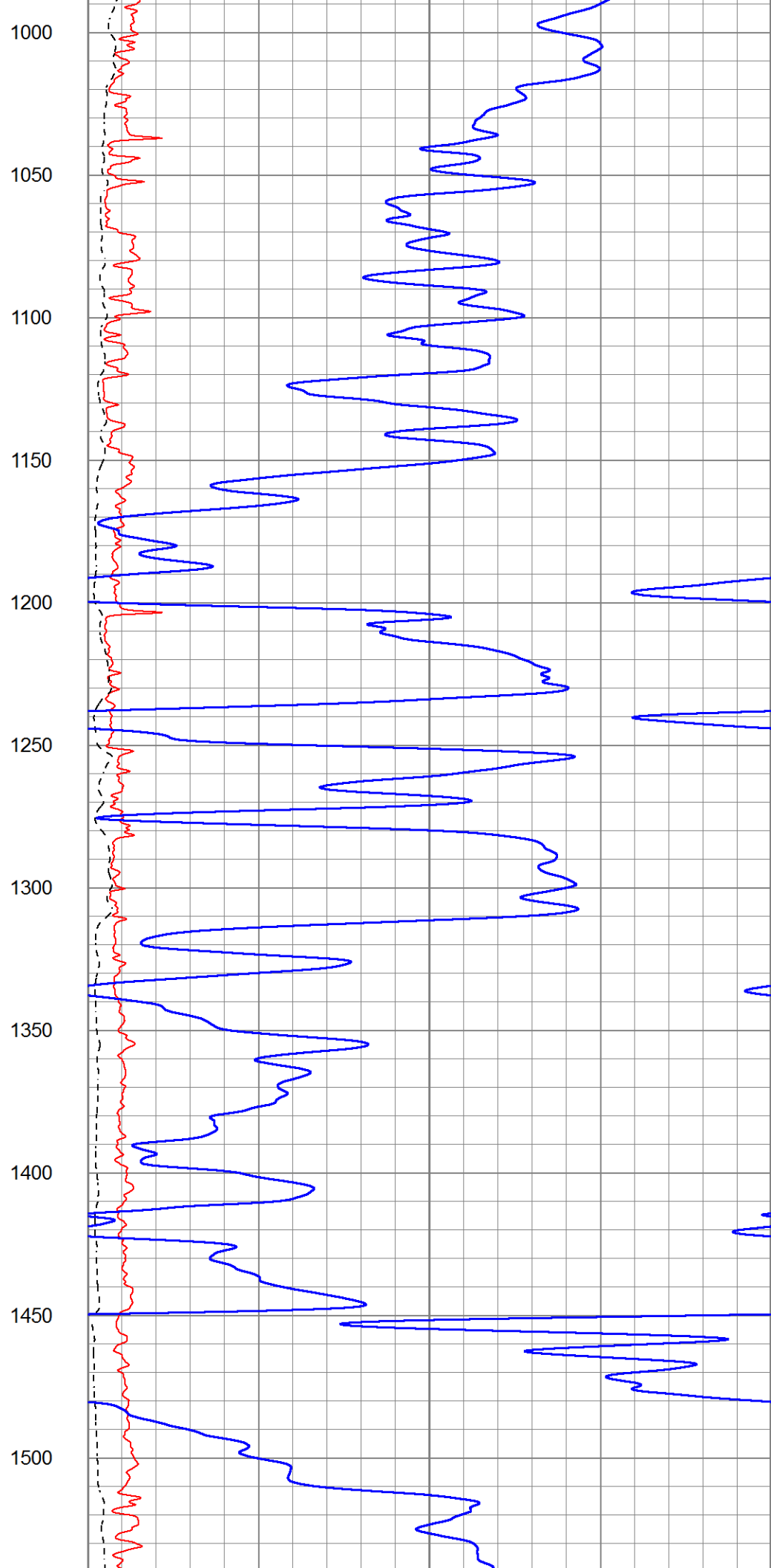
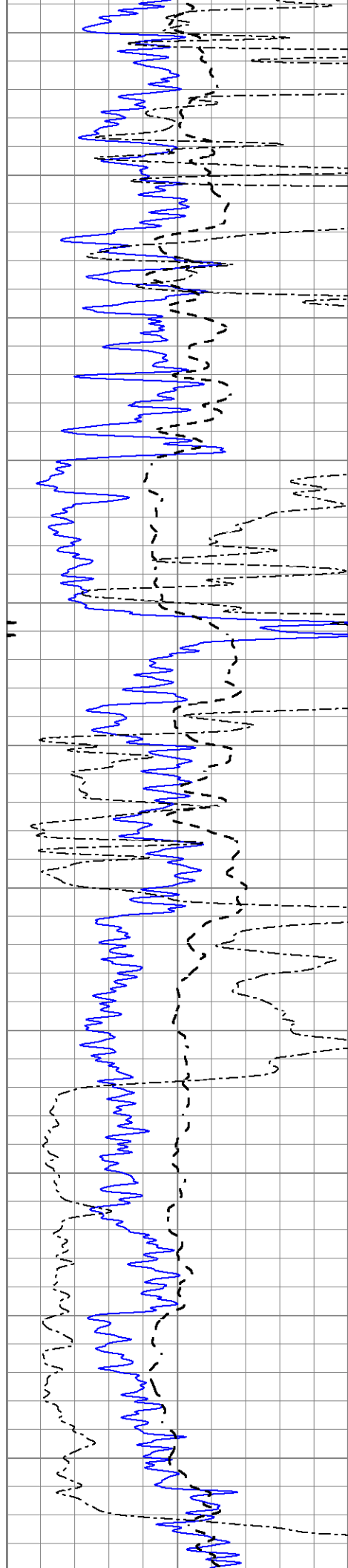
MAIN SECTION

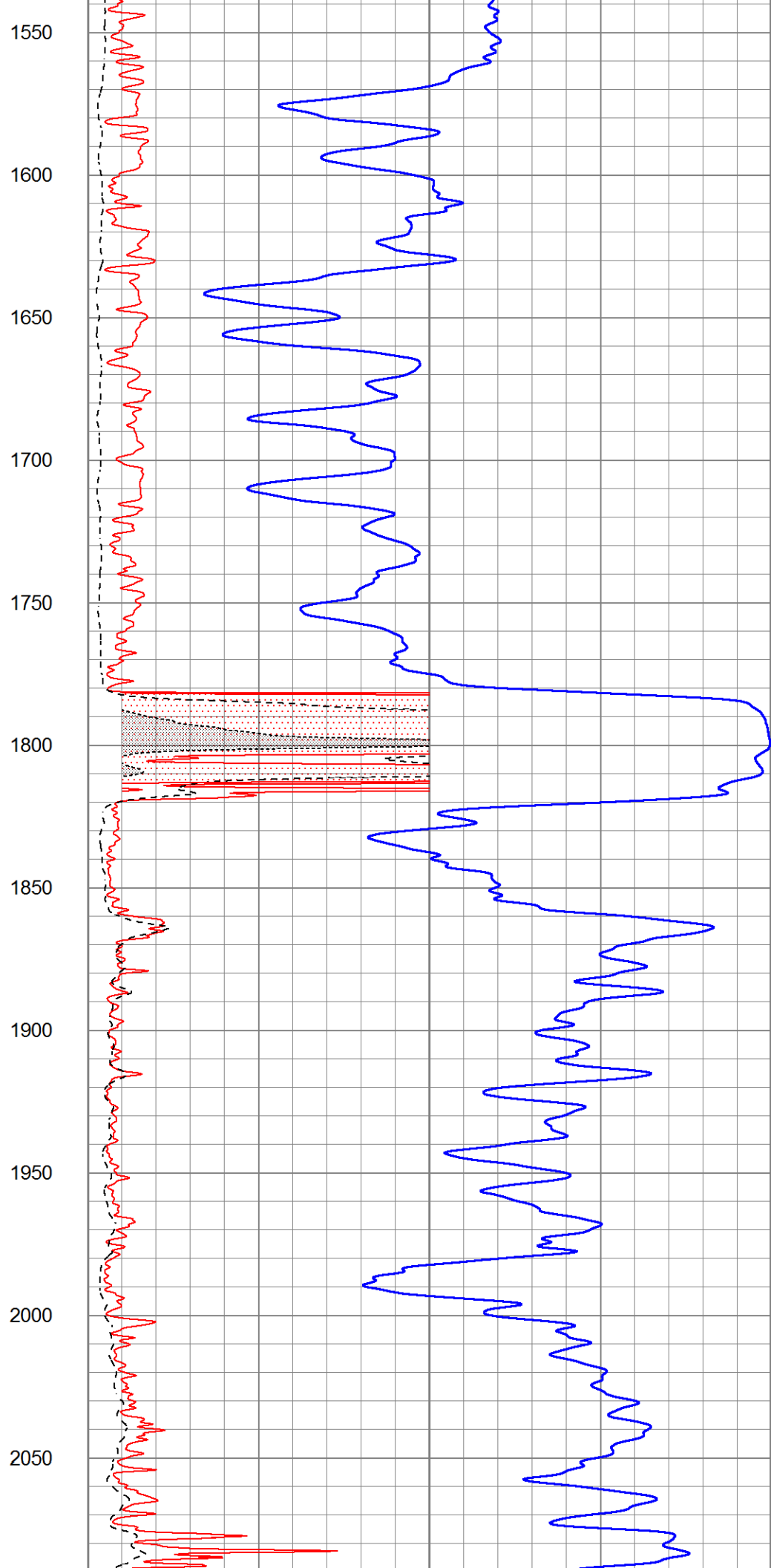
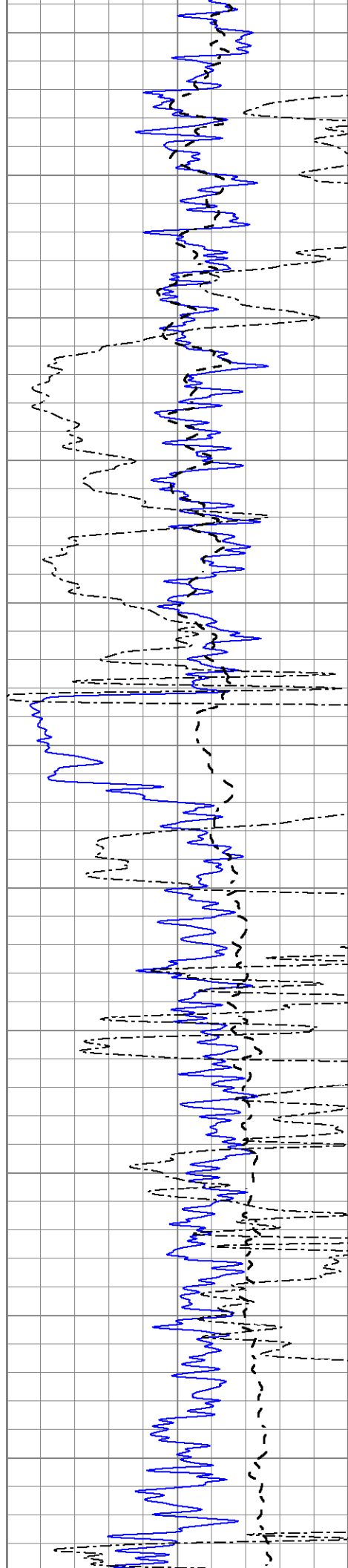
0	Gamma Ray (GAPI)	150	1000	CILD (mmho/m)	0
-100	SP (mV)	100	0	RLL3 (Ohm-m)	50
0	RWA (Ohm-m)	1	0	RILD (Ohm-m)	50
			50	RILD X10 (Ohm-m)	500
			50	RLL3 X10 (Ohm-m)	500

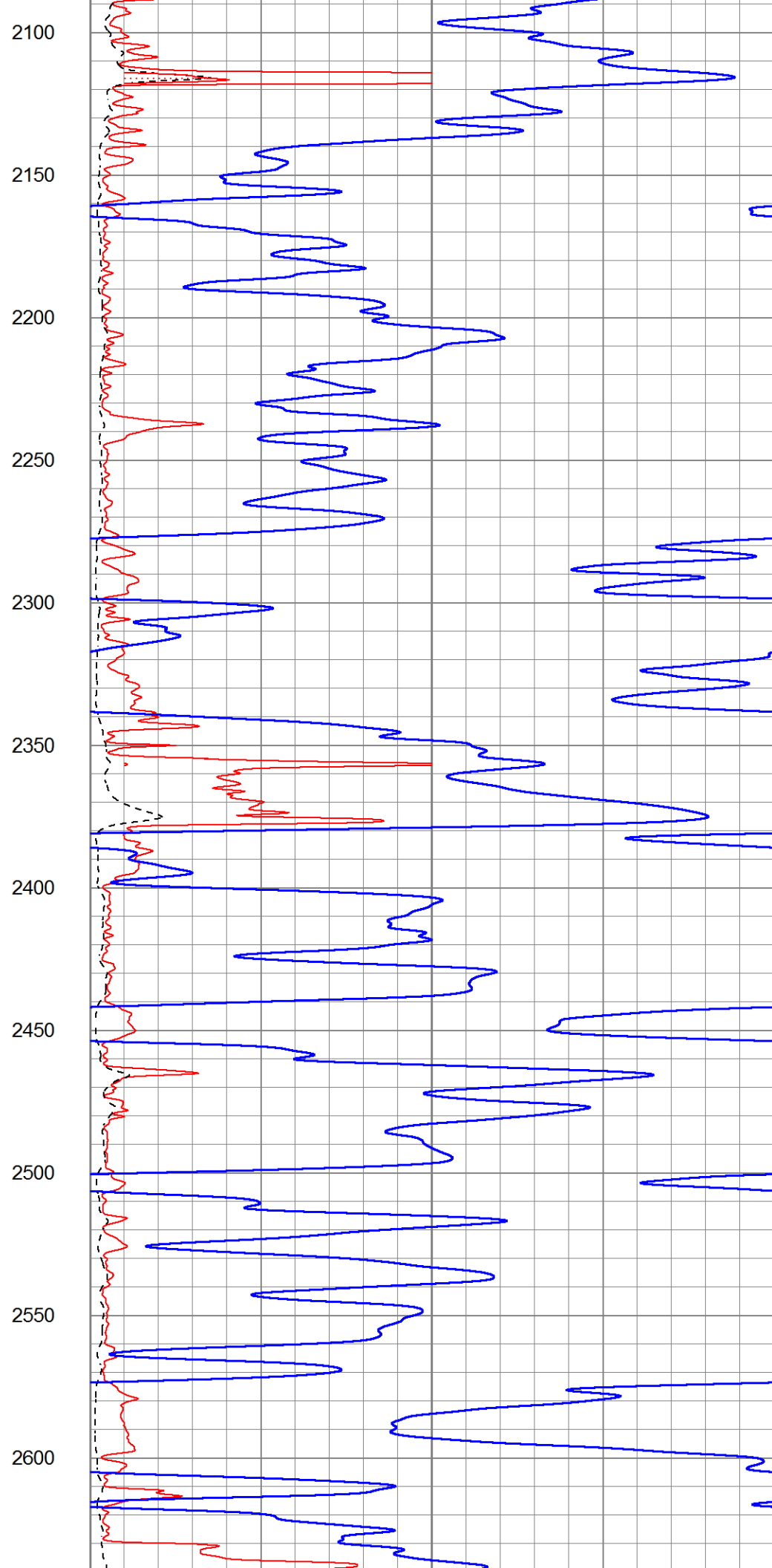
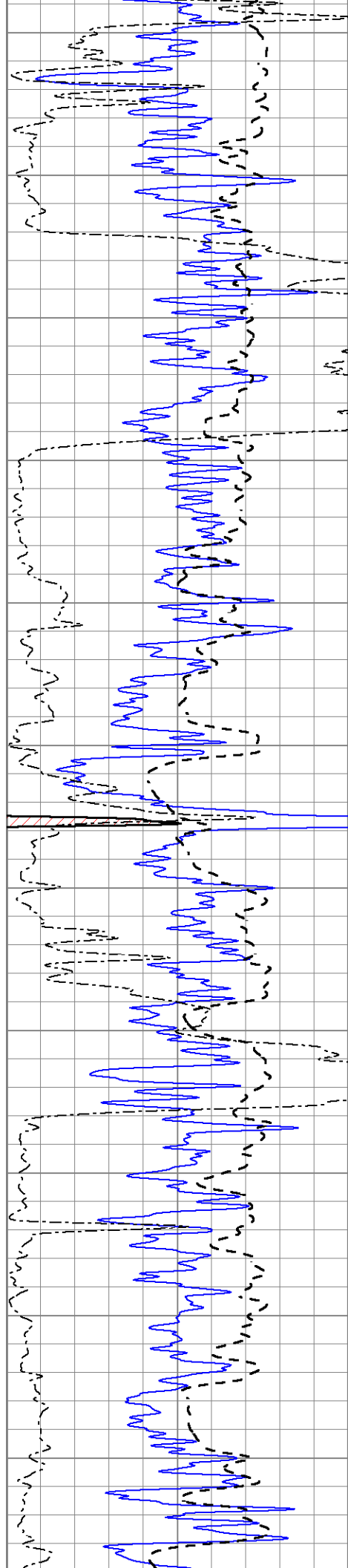


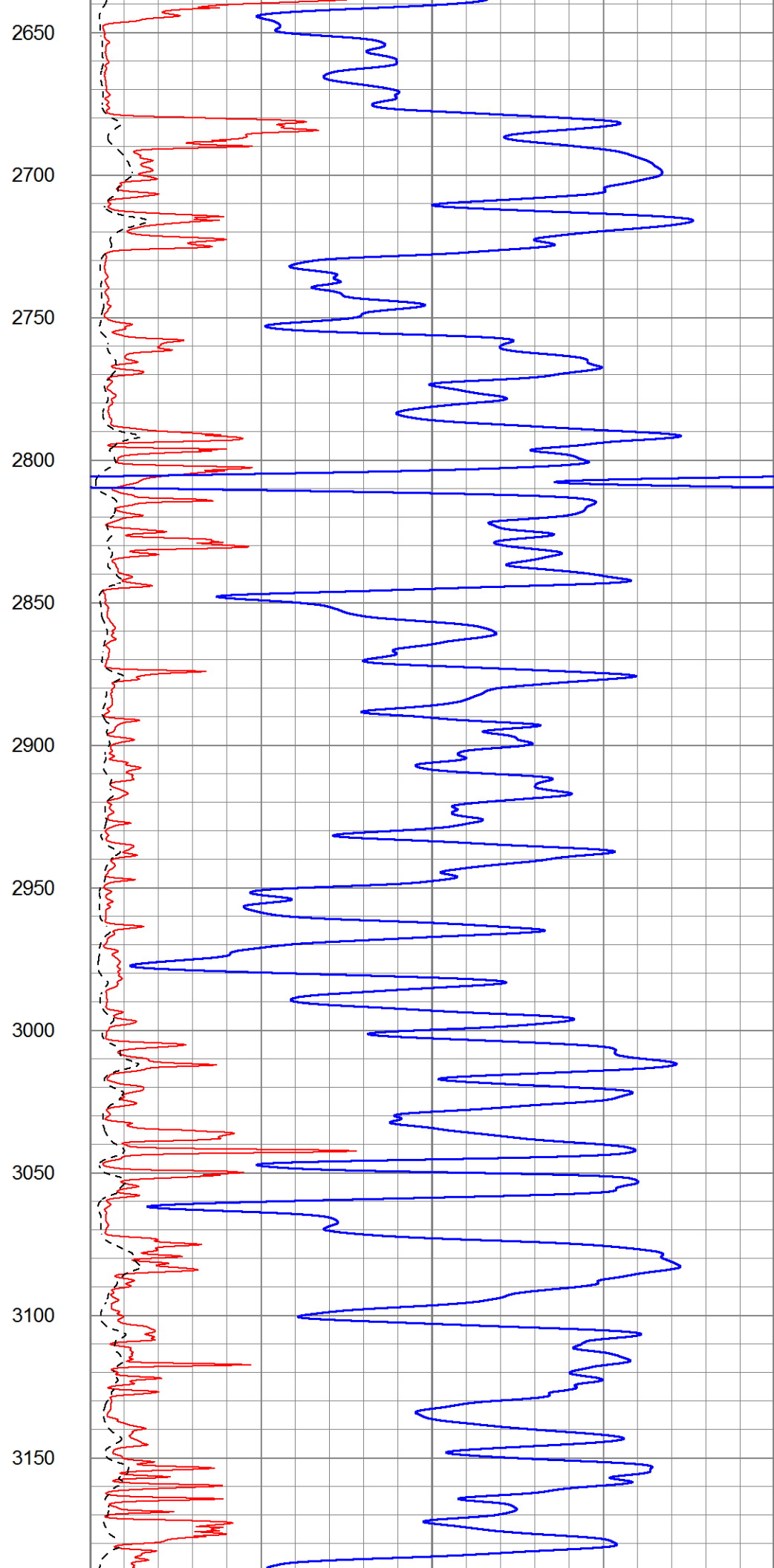
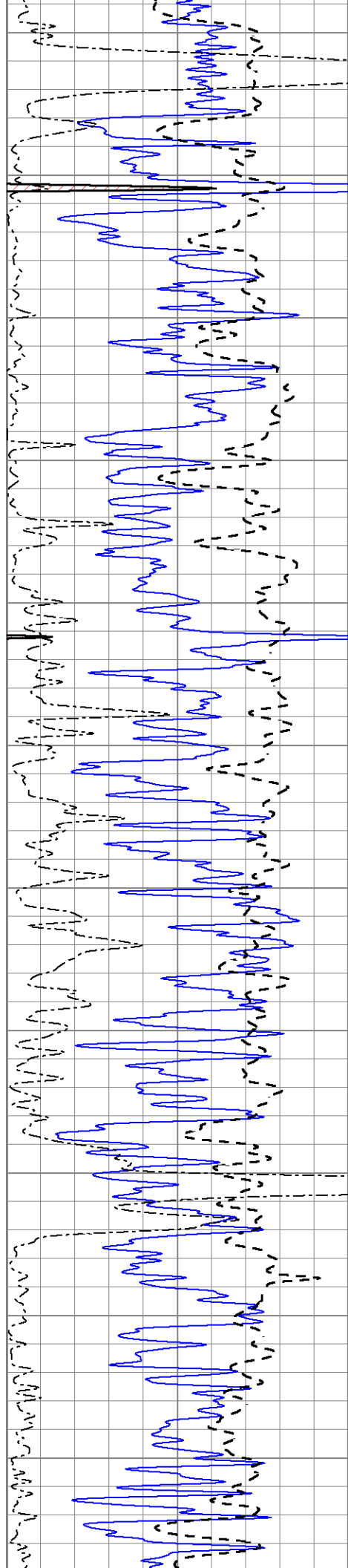
450
500
550
600
650
700
750
800
850
900
950

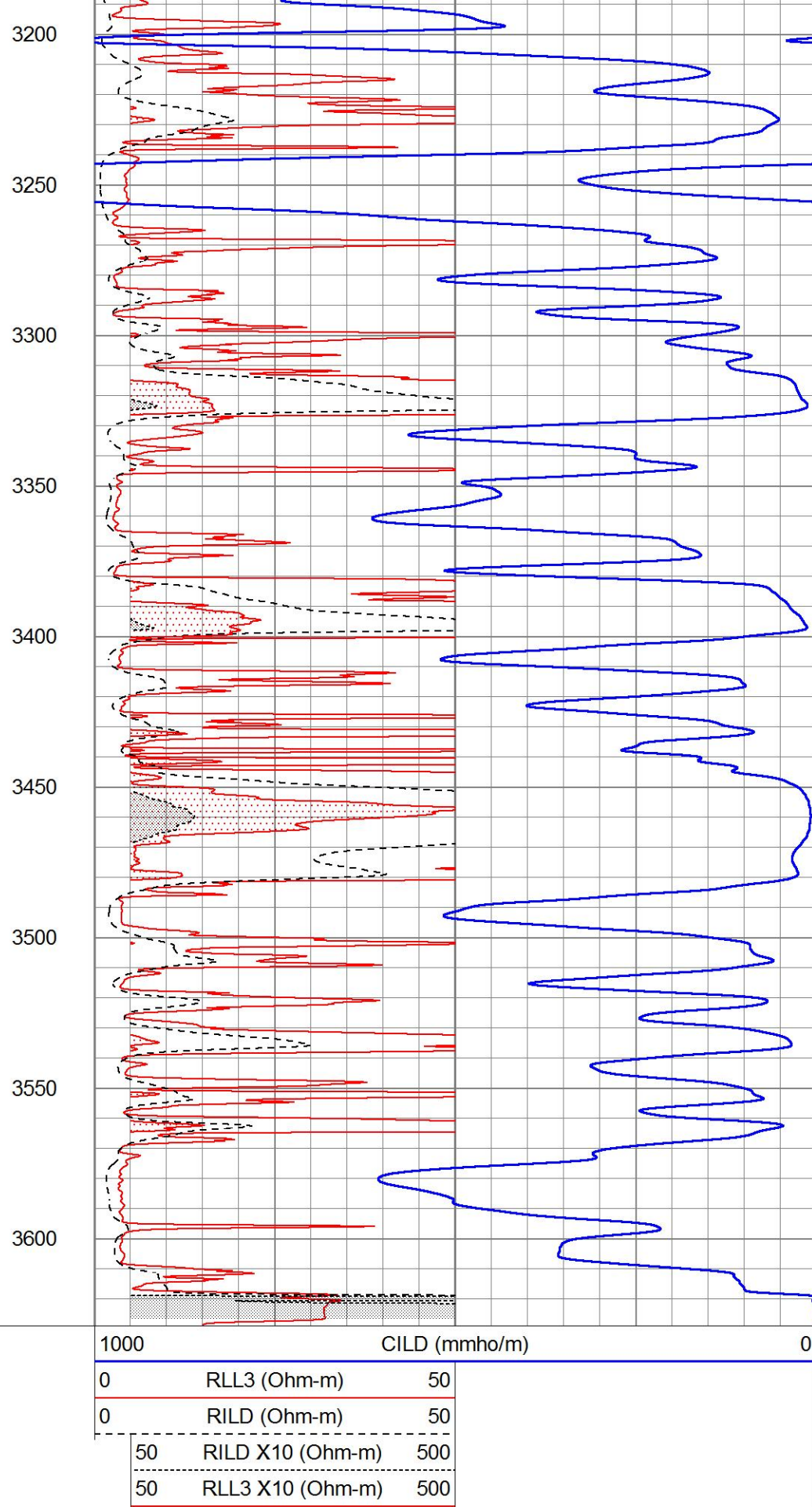
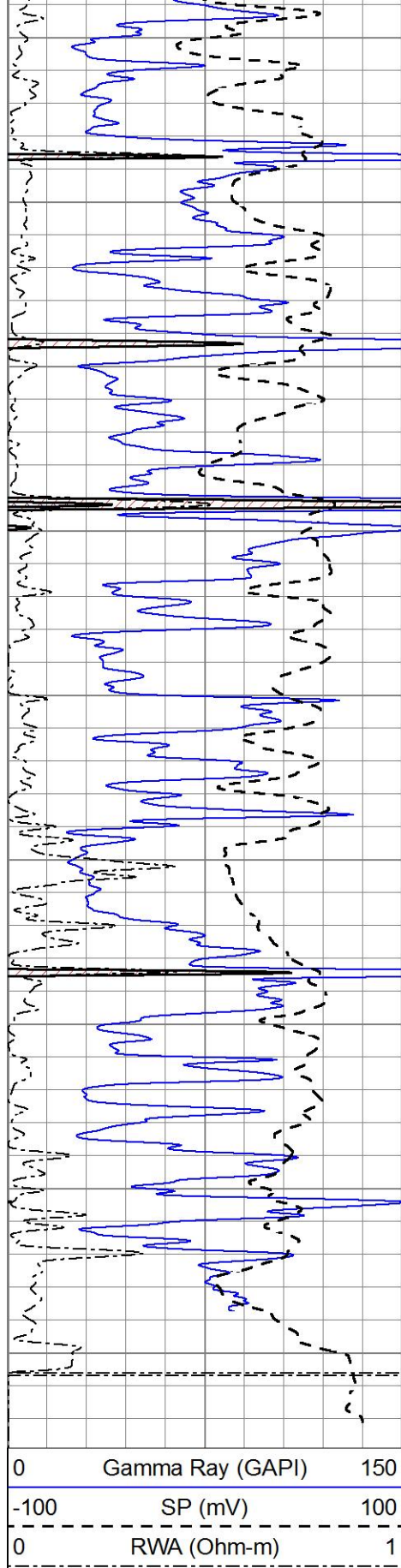










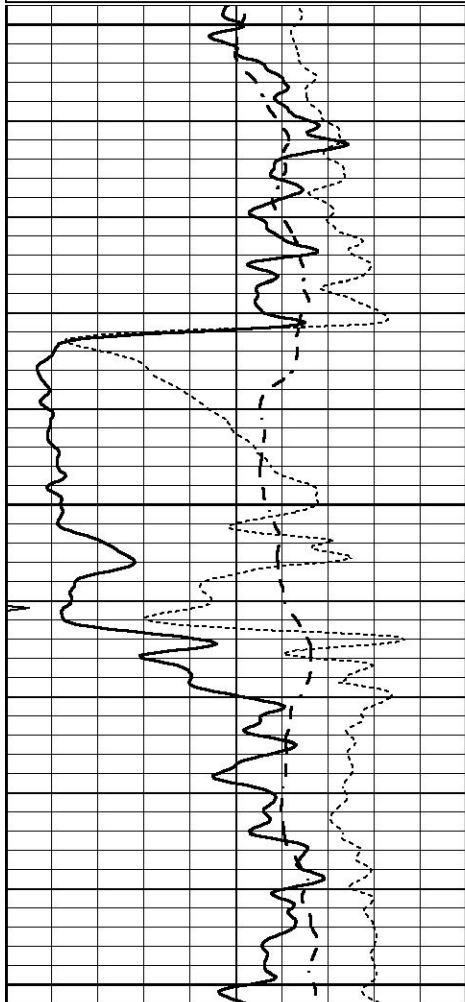


ANHYDRITE

Database File 6275pe.db
 Dataset Pathname pass6.1A
 Presentation Format _dil
 Dataset Creation Sat Apr 09 22:21:22 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

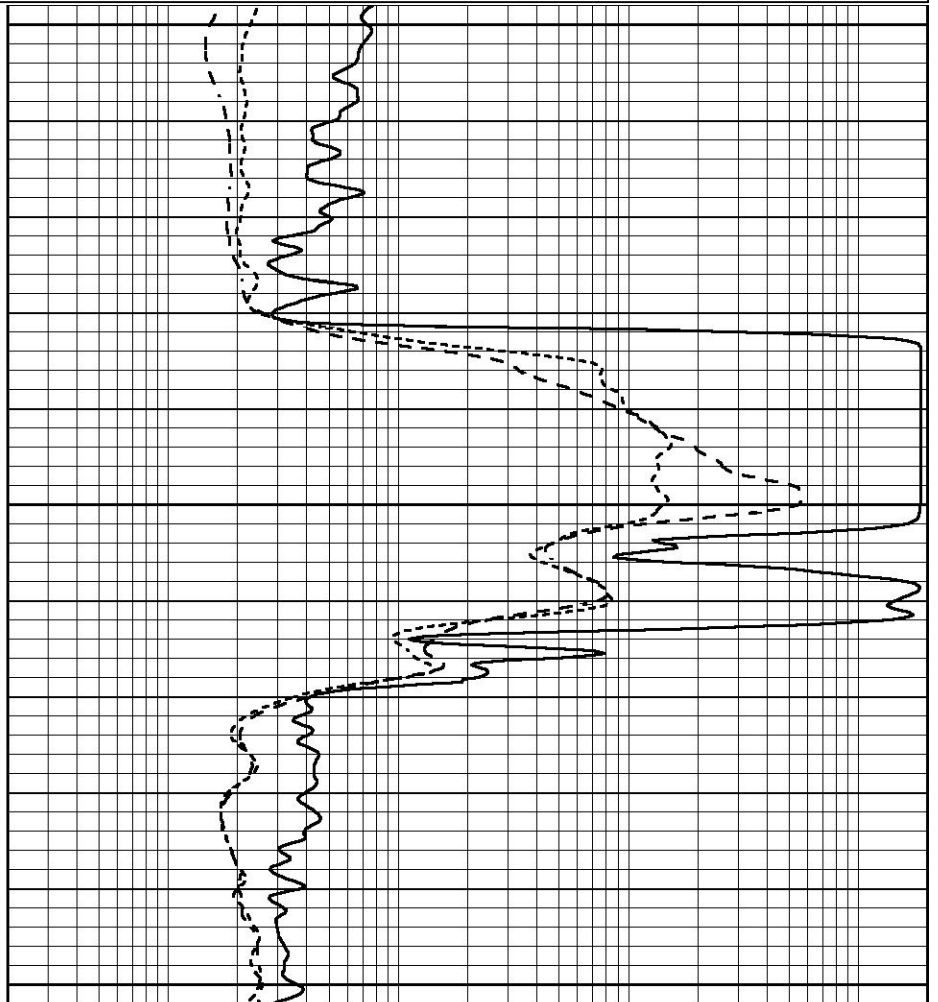
0.2	SHALLOW GUARD (Ohm-m)	2000
0.2	DEEP INDUCTION (Ohm-m)	2000
0.2	MEDIUM INDUCTION (Ohm-m)	2000



1750

1800

1850



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



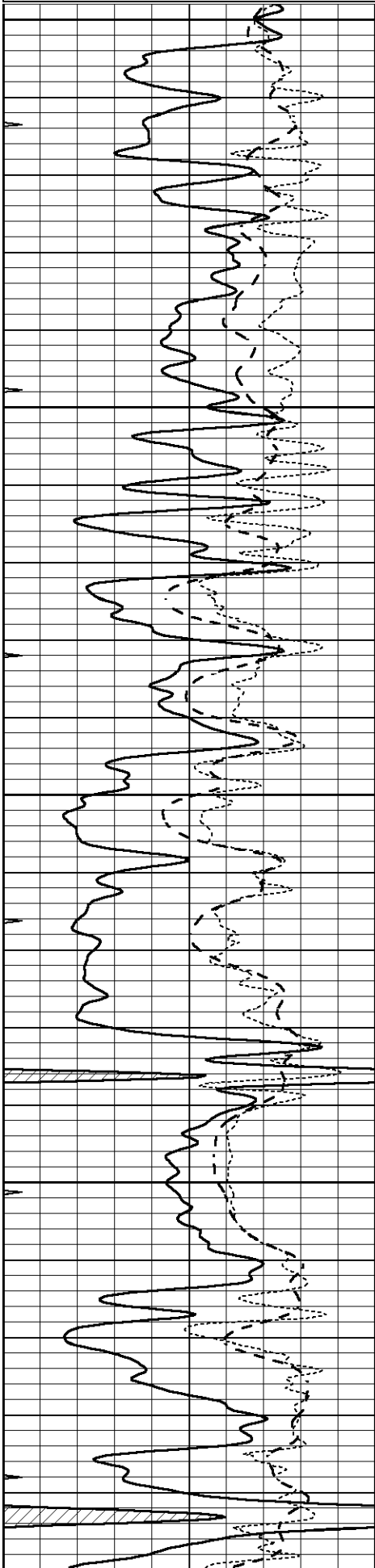
MAIN SECTION

Database File 6275pe.db
 Dataset Pathname pass6.1M
 Presentation Format _dil
 Dataset Creation Sat Apr 09 22:20:29 2022
 Charted by Depth in Feet scaled 1:240

0	GAMMA RAY (GAPI)	150
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0.2	SHALLOW GUARD (Ohm-m)	2000
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0	SP (mV)	100
-100	Rxo/Rt	50
-250	MINMK	20



3100

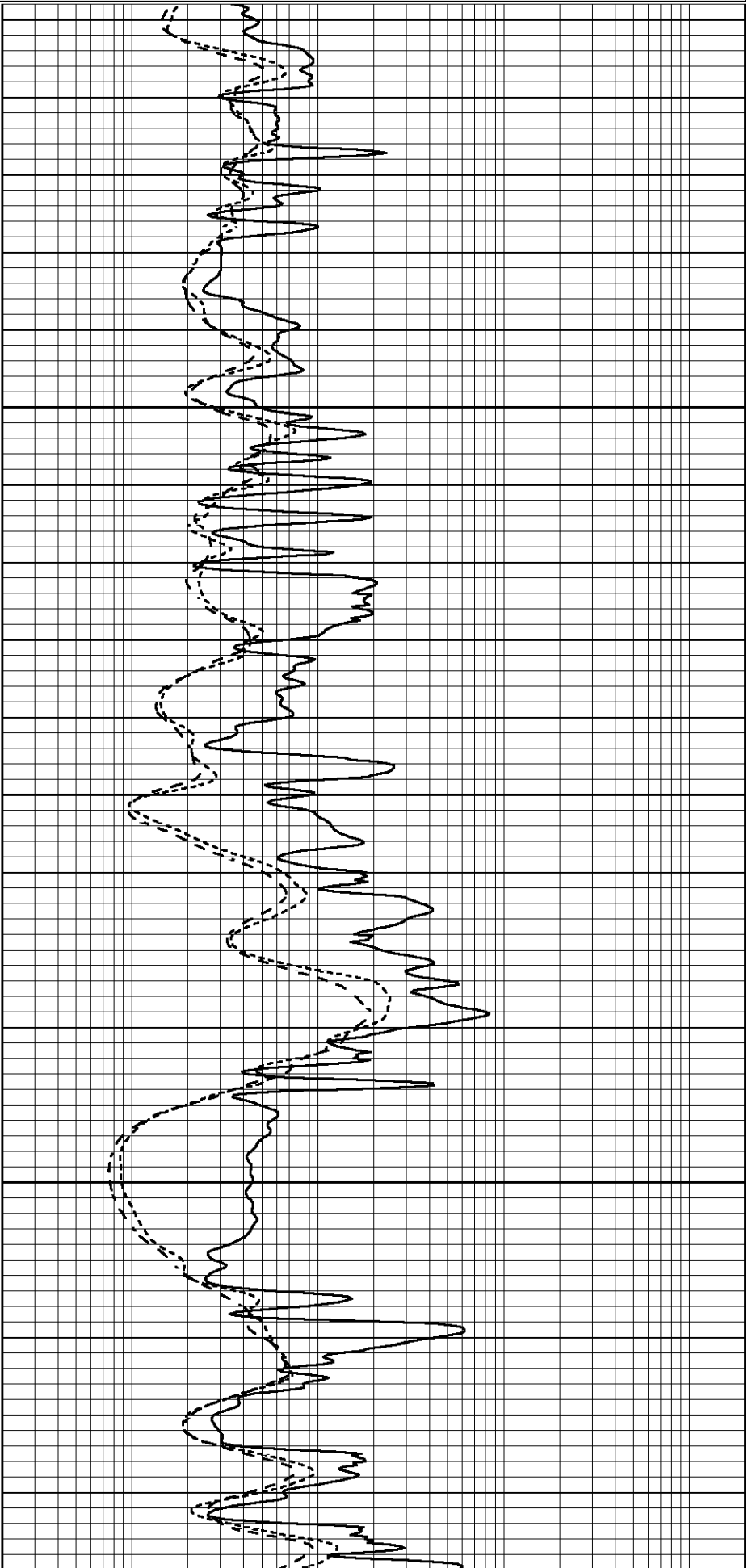
3150

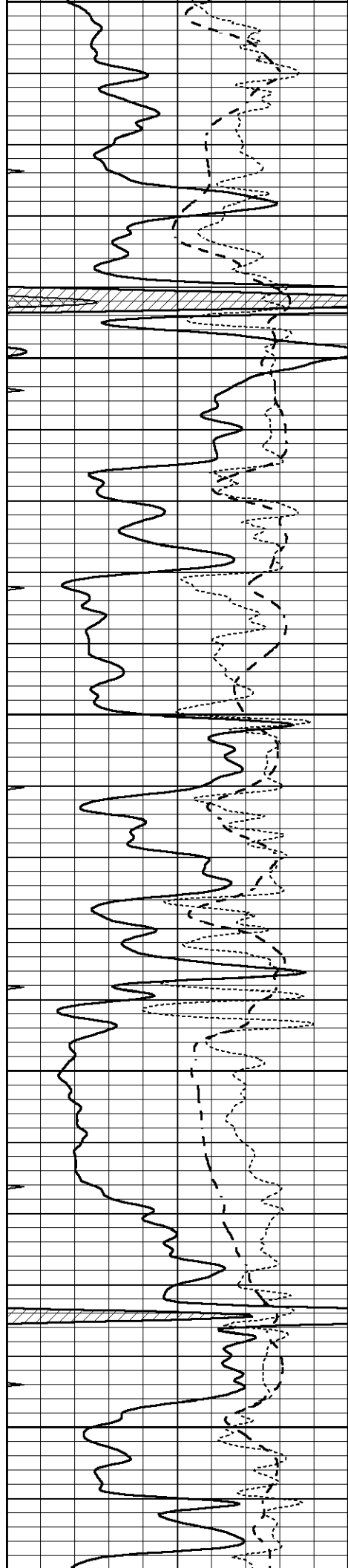
3200

3250

3300

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





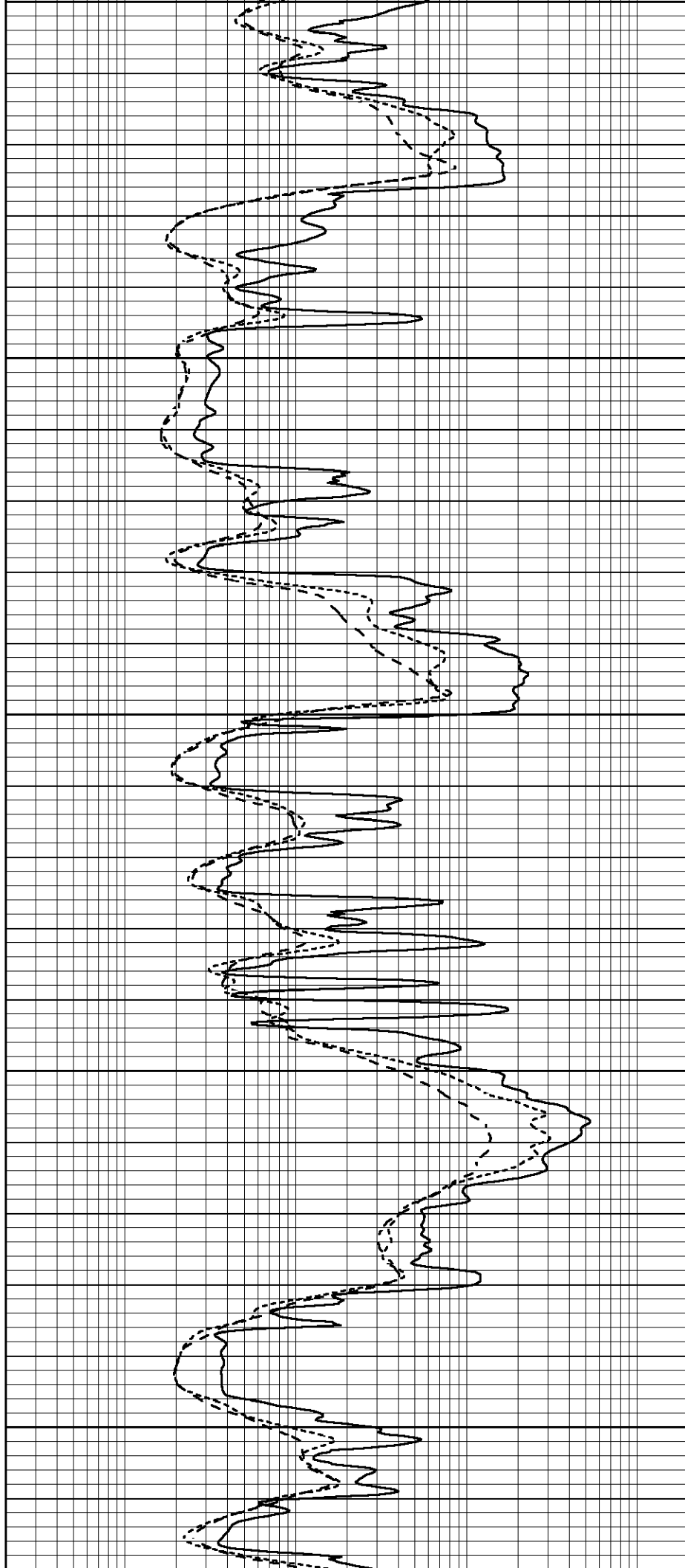
3300

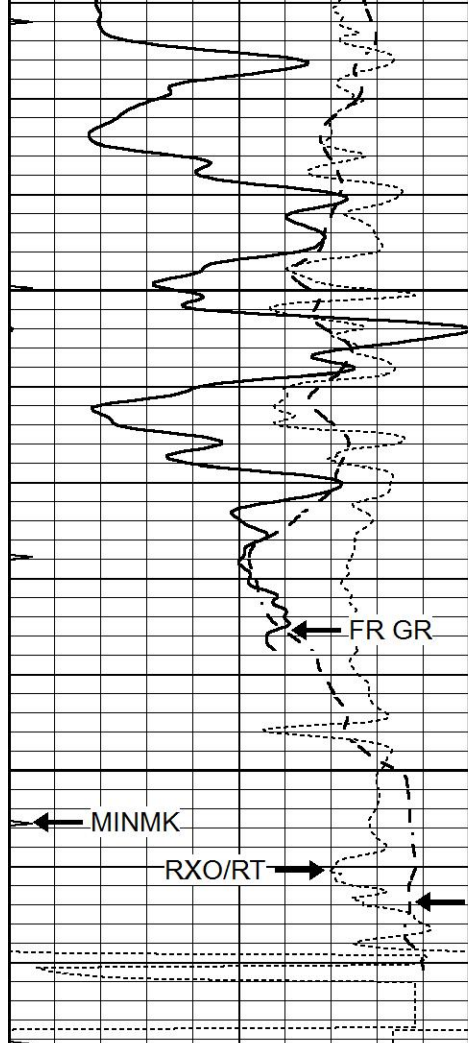
3350

3400

3450

3500





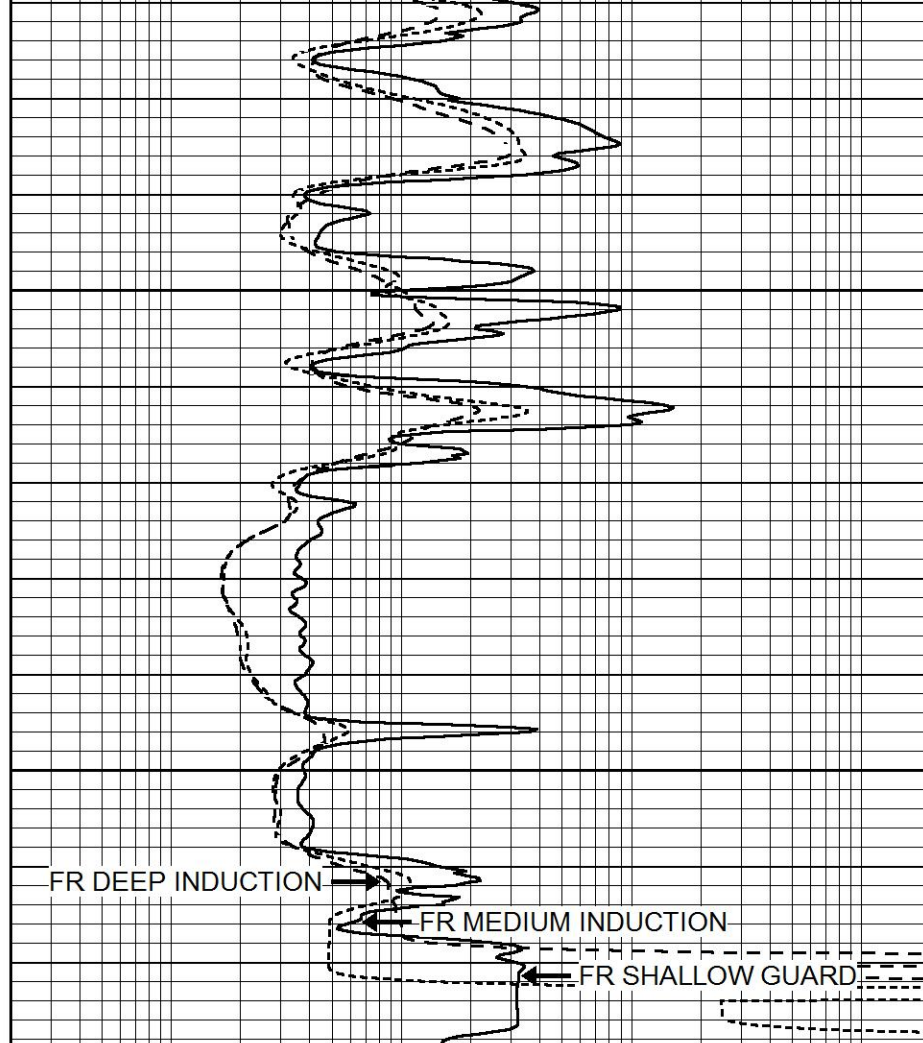
3550

3600

FR SP

LTD 3624

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

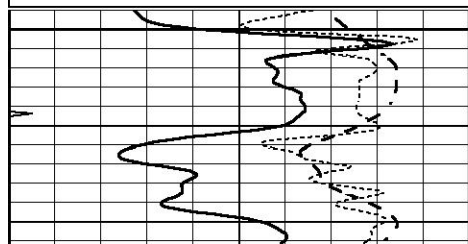


REPEAT SECTION

Database File 6275pe.db
 Dataset Pathname pass5.1R
 Presentation Format _dil
 Dataset Creation Sat Apr 09 21:57:40 2022
 Charted by Depth in Feet scaled 1:240

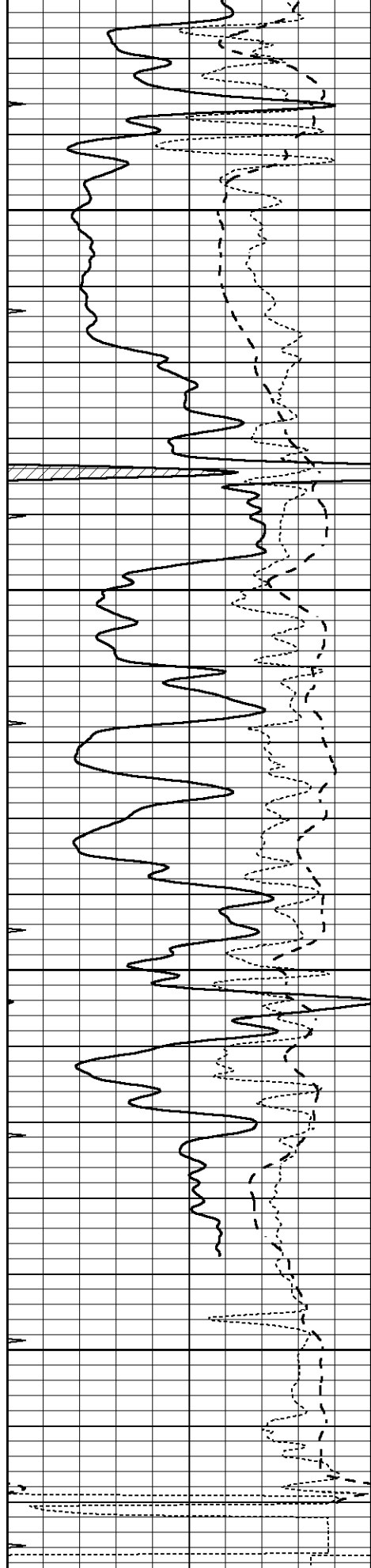
0	GAMMA RAY (GAPI)	150
-100	SP (mV)	100
-250	Rxo/Rt	50
0	MINMK	20

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



3400





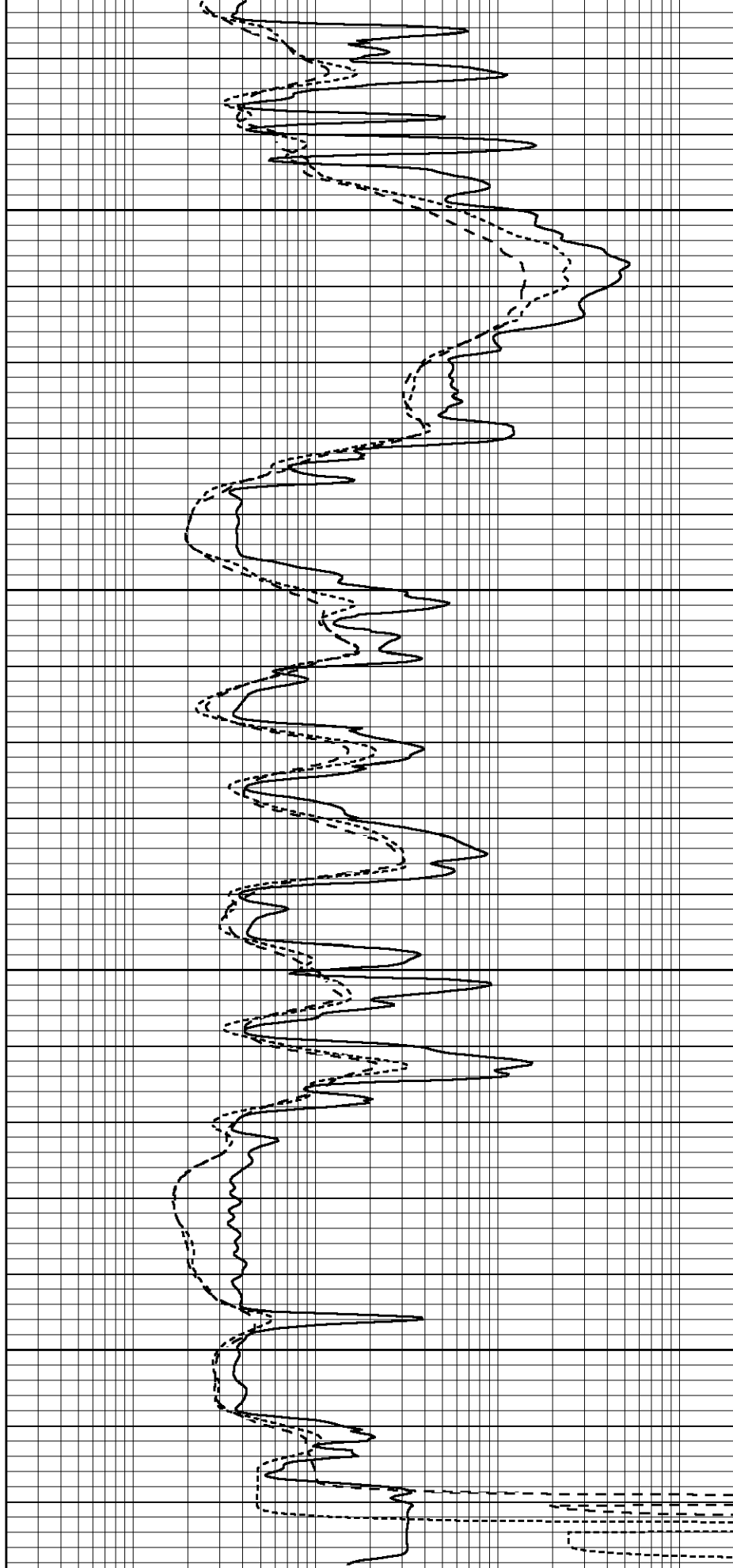
0	GAMMA RAY (GAPI)	150
-100	SP (mV)	100
-250	Rxo/Rt	50

3450

3500

3550

3600



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

0	MINMK	20
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Calibration Report		
Database File	6275pe.db	
Dataset Pathname	pass6.1M	
Dataset Creation	Sat Apr 09 22:20:29 2022	

Dual Induction Calibration Report

Serial-Model:	PROBE9-DILG
Surface Cal Performed:	Wed Mar 23 10:31:45 2022
Downhole Cal Performed:	Wed Mar 11 11:31:19 2020
After Survey Verification Performed:	Wed Mar 11 11:31:22 2020

Surface Calibration								
Loop:	Readings			References			Results	
	Air	Loop		Air	Loop		m	b
Deep	-0.014	0.629	V	0.000	400.000	mmho/m	720.000	-12.000
Medium	0.039	0.728	V	0.000	464.000	mmho/m	720.000	-12.000
Internal:	Zero	Cal		Zero	Cal		m	b
Deep	0.011	0.610	V	0.000	400.000	mmho/m	667.135	-7.256
Medium	0.005	0.712	V	0.000	464.000	mmho/m	655.677	-3.102

Downhole Calibration								
	Readings			References			Results	
	Zero	Cal		Zero	Cal		m'	b'
Deep	0.000	0.000	mmho/m	14.508	388.384	mmho/m	1.000	0.000
Medium	0.000	0.000	mmho/m	166.367	504.400	mmho/m	1.000	0.000
LL3		7.500	V		1400.000	Ohm-m		
		0.000	V		20.000	Ohm-m		
		-7.200	V		4000.000	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		

Litho Density Calibration Report		
Serial: 002	Model: PRB	

Master Calibration					Performed Mon May 11 12:00:22 2020
	Background	Magnesium	Aluminum	Aluminum+Fe	
Window 1	787.5	10229.8	2775.7	2400.0	cps
Window 2	729.6	8732.5	2418.3	2137.0	cps
Window 3	603.0	4606.3	1428.3	1320.0	cps
Window 4	173.7	178.2	174.1	173.1	cps
Long Space	0.0	8002.9	1688.7	1407.4	cps
Short Space	1.1	1870.8	1208.3	1030.3	cps
Rho		1.7100	2.5900	0.0000	g/cc
Pe		2.0000	2.7500	5.7900	
Rib Angle	: 44.3	Rib Slope	: 0.976	Density/Spine Ratio	: 0.545

Spine Angle		: 74.3	Spine Slope		: 3.559	Spine Intercept		: -17.8
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:		Tue Mar 22 20:25:25 2022						
Calibrator Value:		1.0		GAPI				
Background Reading:		0.0		cps				
Calibrator Reading:		1.0		cps				
Sensitivity:		0.3000		GAPI/cps				