



DUAL INDUCTION LOG

Company	C&G DRILLING, INC.	Location:	API # : 15-015-24145-0000	Other Services CDL/CNL ML
Well	BUSENITZ B #2	2310' FSL & 1750' FEL		
Field	PLUM GROVE NW			
County	BUTLER	State	KANSAS	
Permanent Datum	SEC 14 TWP 24S RGE 4E			
Log Measured From	GROUND LEVEL	Elevation	1401	
Drilling Measured From	KELLY BUSHING	K.B. 1410 D.F. 1408 G.L. 1401		
Date	06/04/21			
Run Number	ONE			
Depth Driller	2580			
Depth Logger	2575			
Bottom Logged Interval	2573			
Top Log Interval	00			
Casing Driller	8 5/8" @ 211			
Casing Logger	211			
Bit Size	7 7/8"			
Type Fluid in Hole	CHEMICAL MUD			
Density / Viscosity	9.2/29			
pH / Fluid Loss	9.0/6.4			
Source of Sample	FLOWLINE			
Rm @ Meas. Temp	2.1 @ 70F			
Rmf @ Meas. Temp	1.58 @ 70F			
Rmc @ Meas. Temp	2.52 @ 70F			
Source of Rmf / Rmc	MEASURED			
Rm @ BHT	1.42 @ 103F			
Time Circulation Stopped	2 HOURS			
Time Logger on Bottom	////			
Maximum Recorded Temperature	103F			
Equipment Number	1523			
Location	HAYS, KANSAS			
Recorded By	GUS PFANENSTIEL			
Witnessed By	BRANDON WOLFE			

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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, HAYS, KS. (785) 628-6395

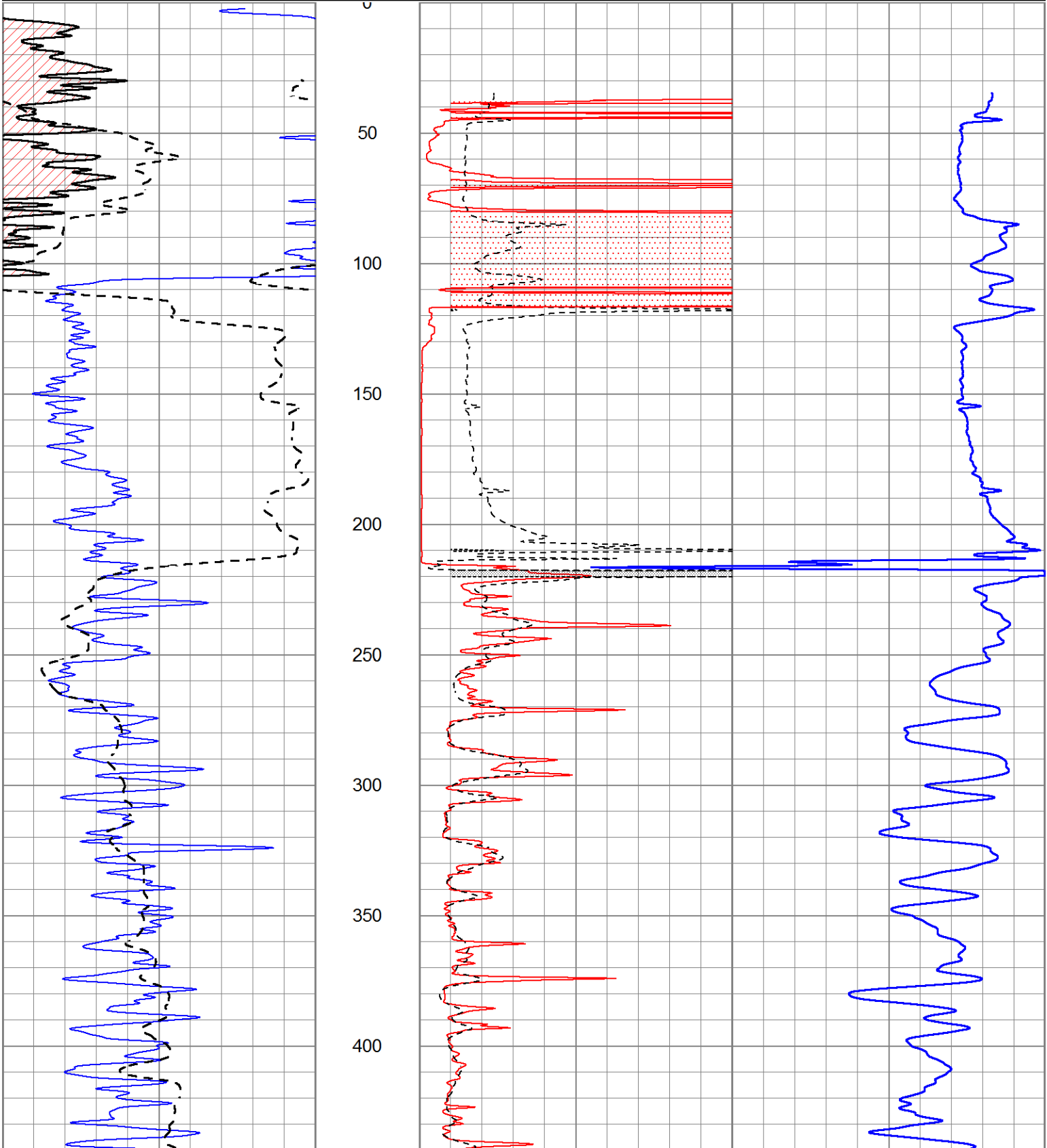
DIRECTIONS:POTWIN NORTH ON NW RIVER VALLEY RD 2 MILES,
3 MILES EAST ON NW 100, 1/2 SOUTH, WEST INTO AT TANK BATTERY

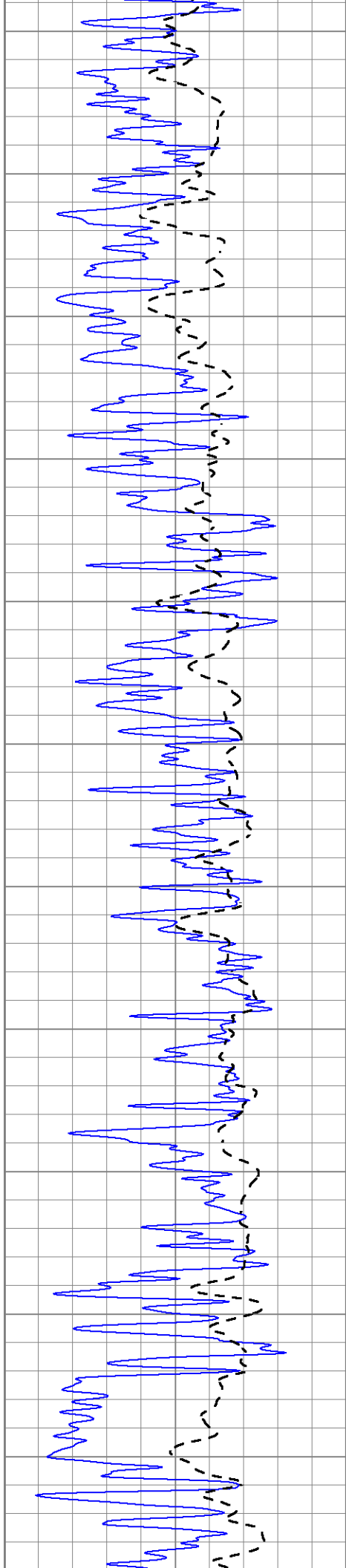
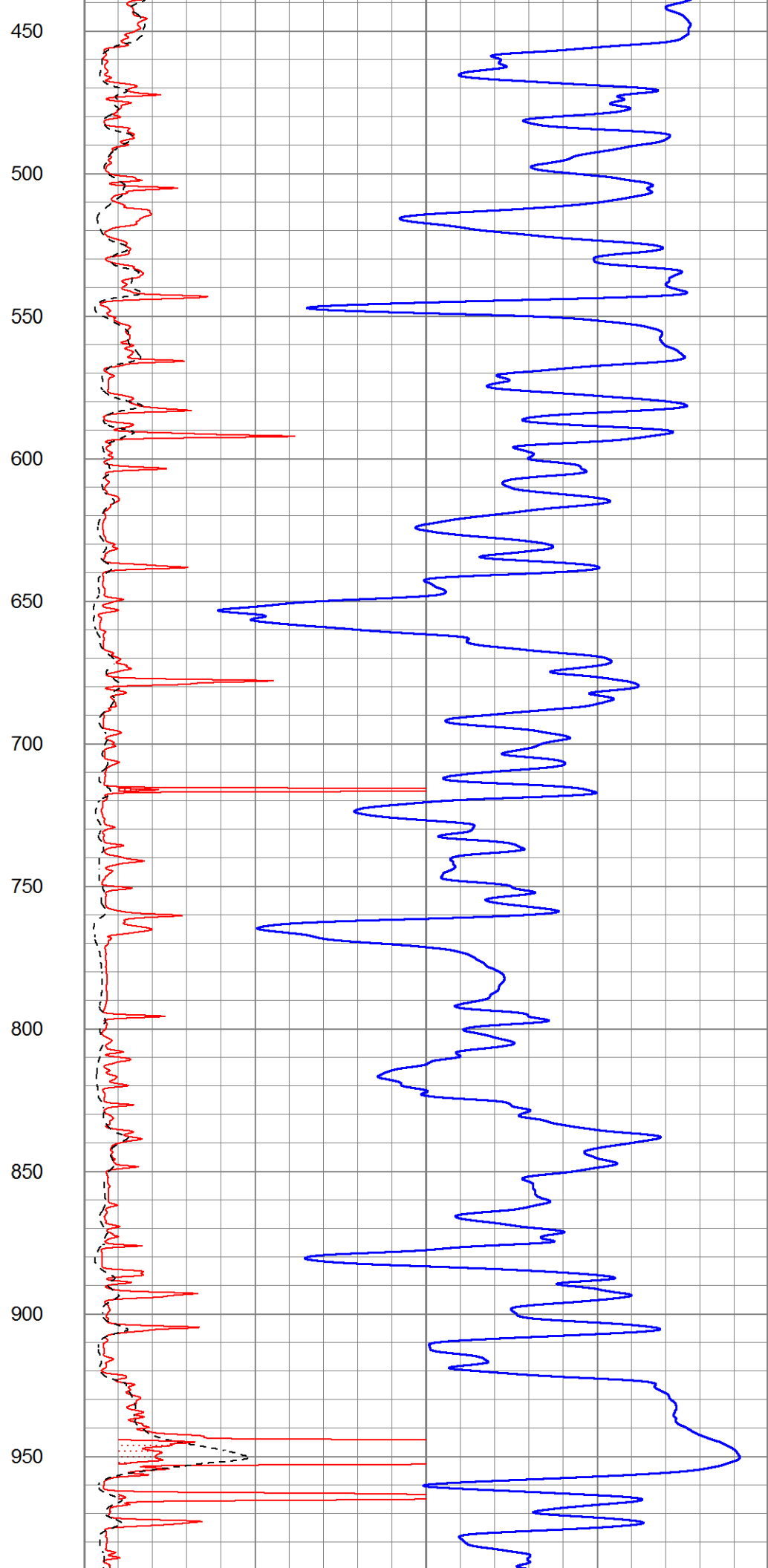


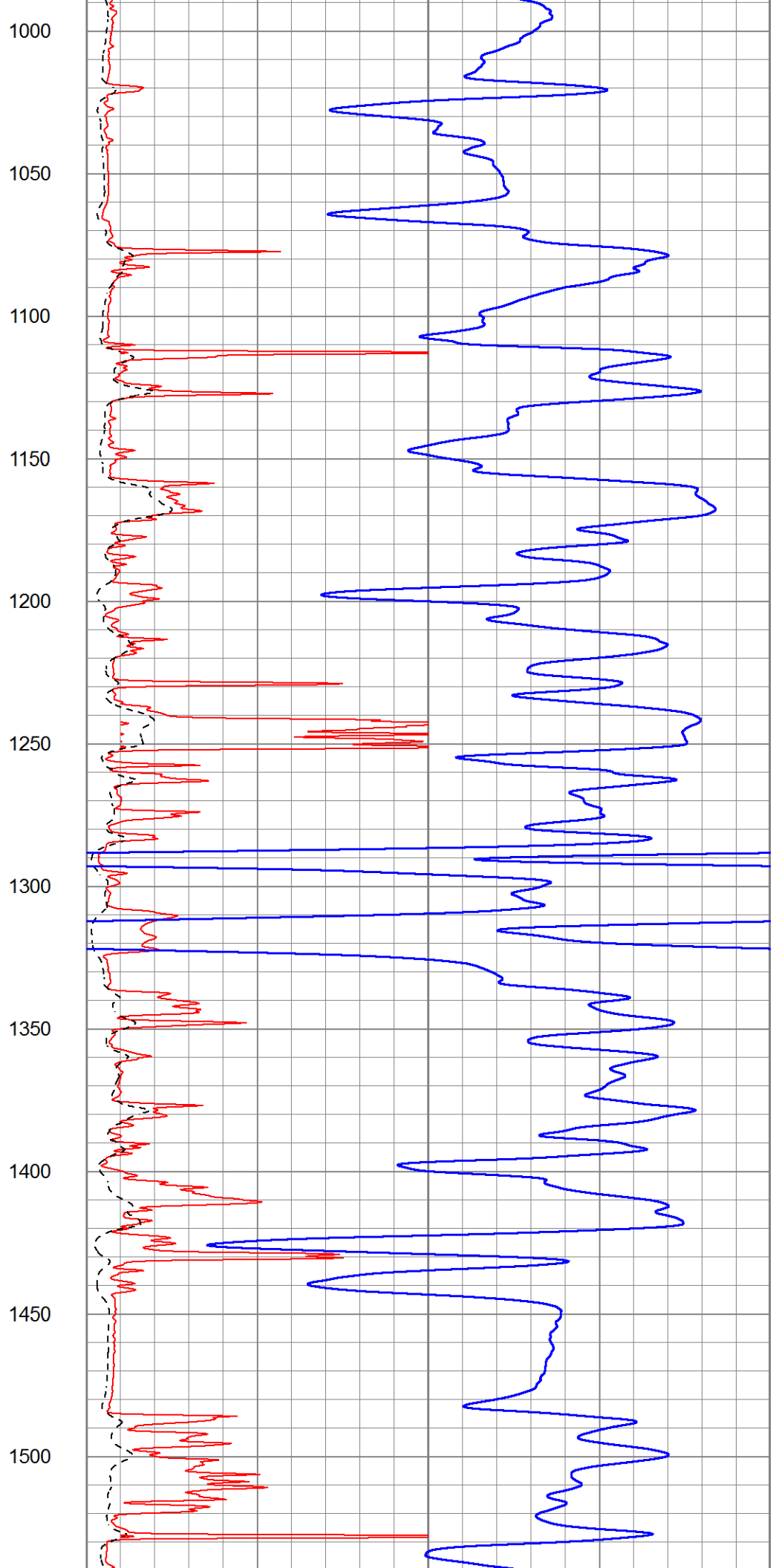
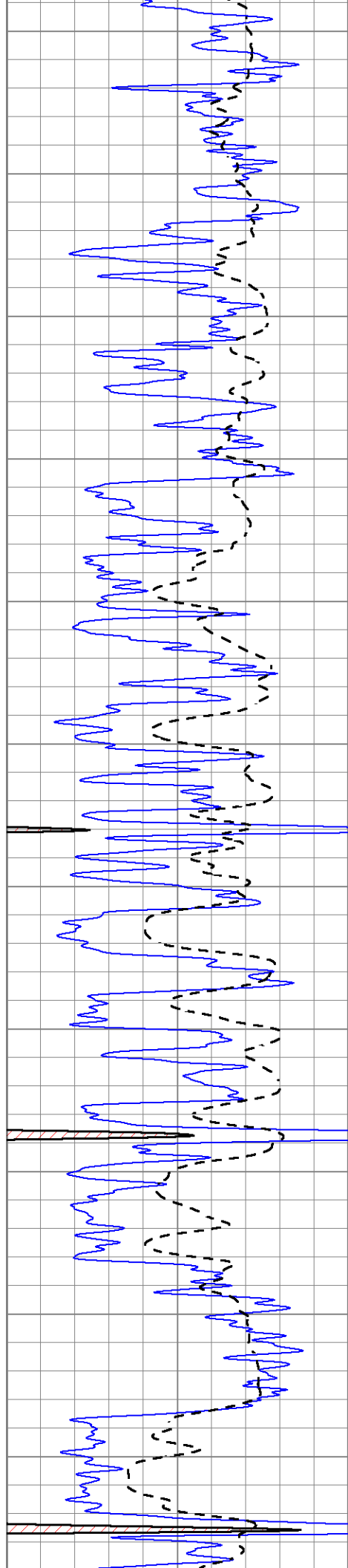
MAIN PASS

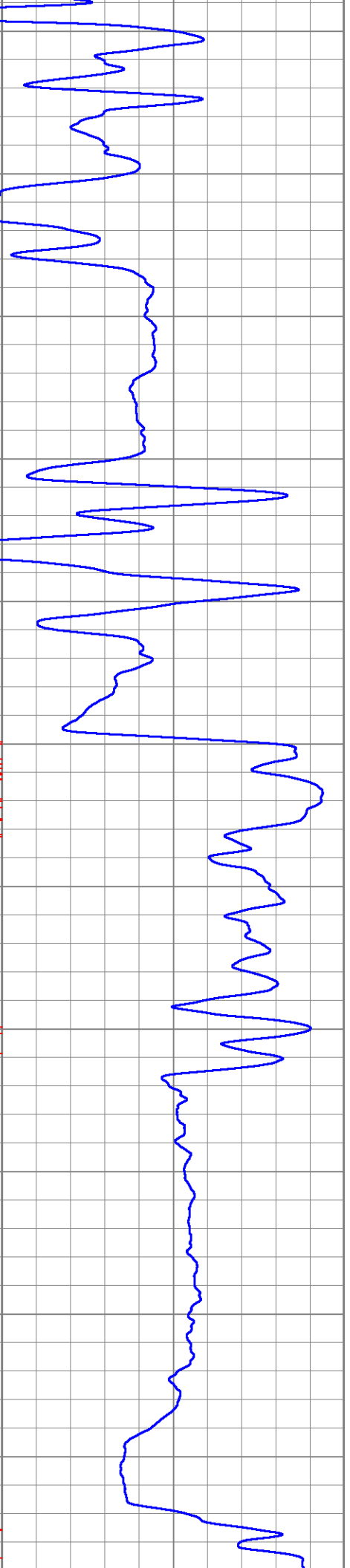
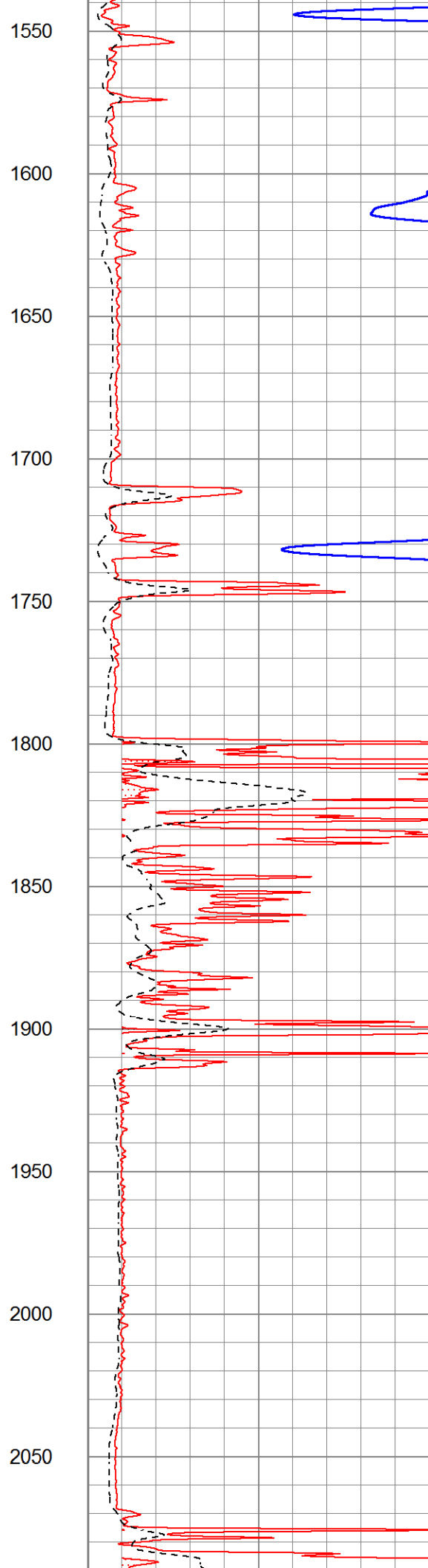
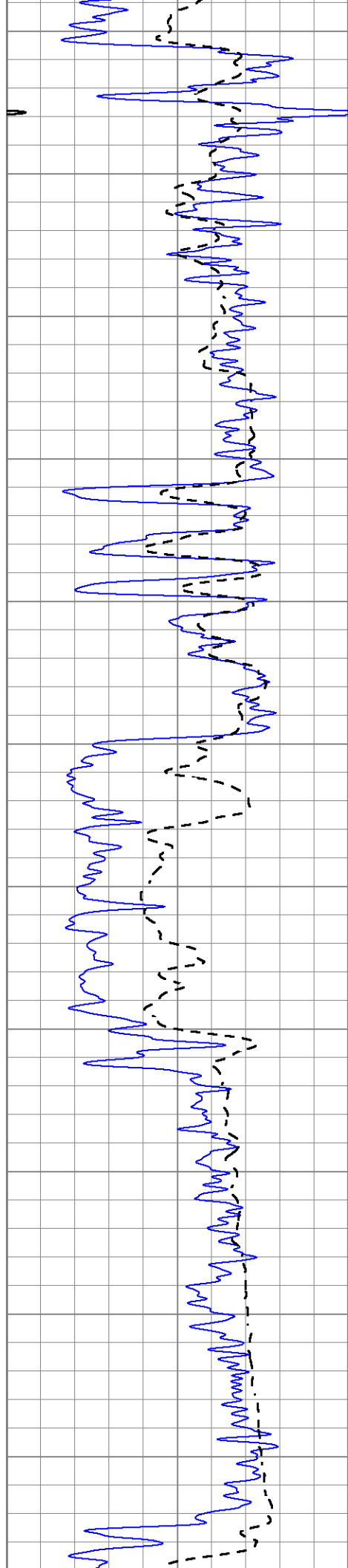
Database File	5439ddn.db
Dataset Pathname	pass3.1
Presentation Format	_dil2
Dataset Creation	Fri Jun 04 08:46:26 2021
Charted by	Depth in Feet scaled 1:600

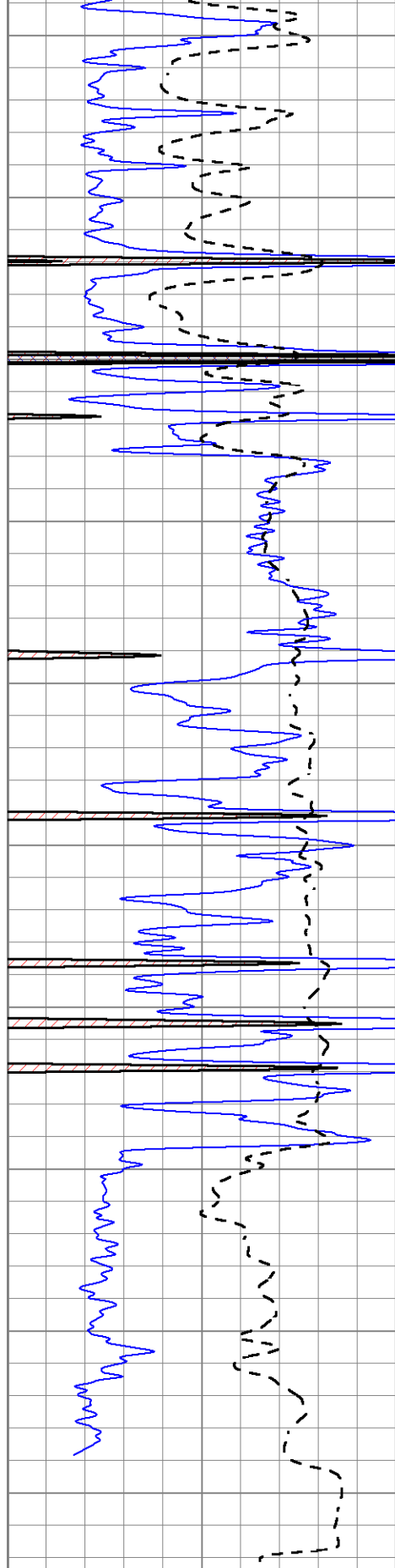
0	Gamma Ray (GAPI)	150	1000	CILD (mmho/m)	0
-100	SP (mV)	100	0	RLL3 (Ohm-m)	50
			0	RILD (Ohm-m)	50
			50	RILD X10 (Ohm-m)	500
			50	RLL3 X10 (Ohm-m)	500



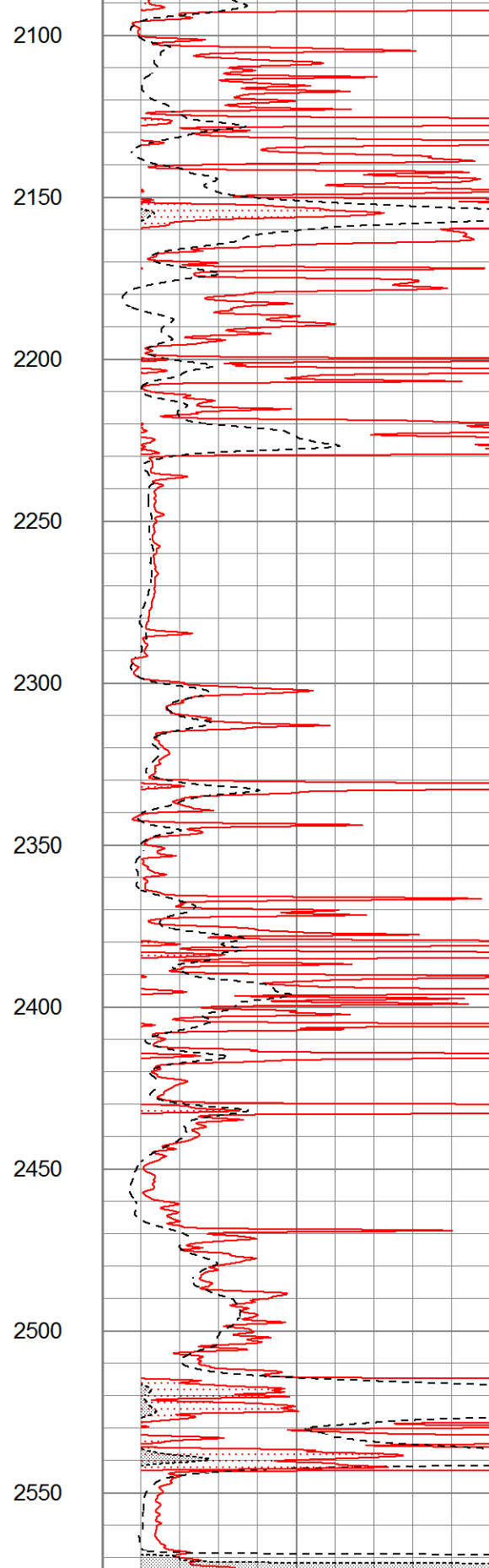




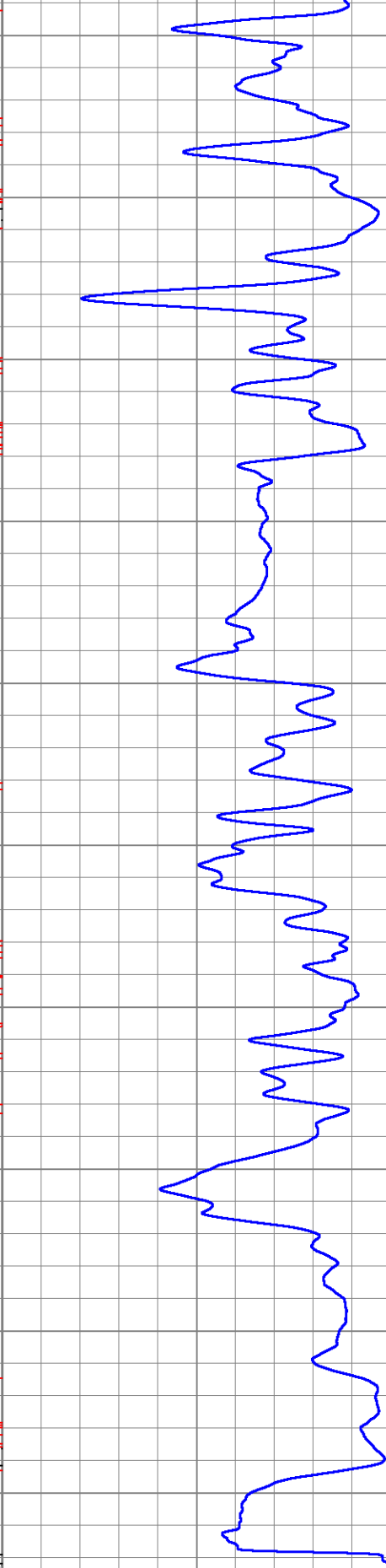




0 Gamma Ray (GAPI) 150
 -100 SP (mV) 100



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



0

0	RILD (Ohm-m)	50
50	RILD X10 (Ohm-m)	500
50	RLL3 X10 (Ohm-m)	500

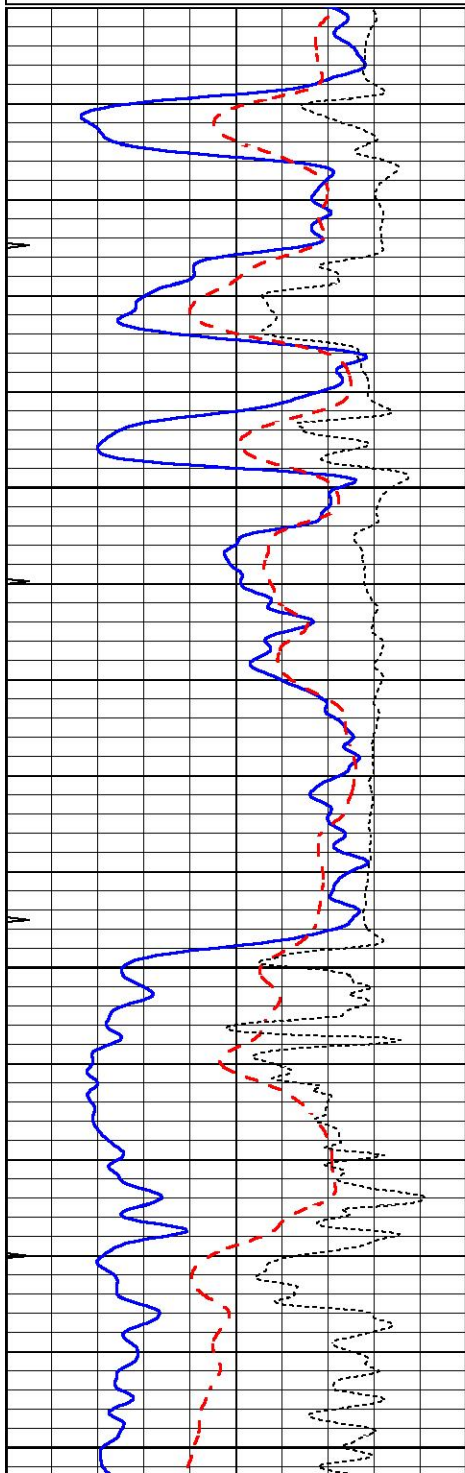


MAIN PASS

Database File 5439ddn.db
Dataset Pathname pass3.1
Presentation Format _dil
Dataset Creation Fri Jun 04 08:46:26 2021
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

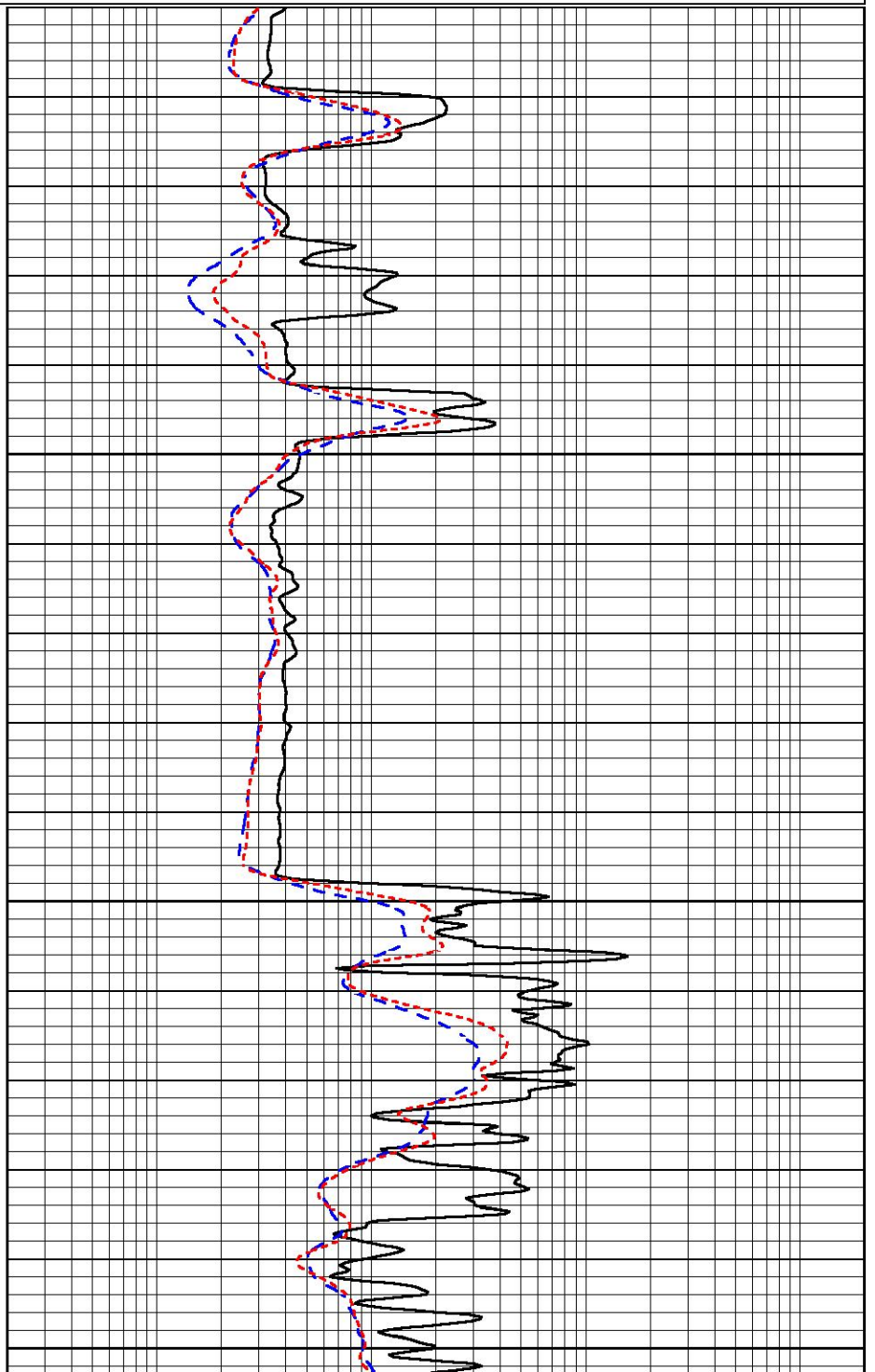


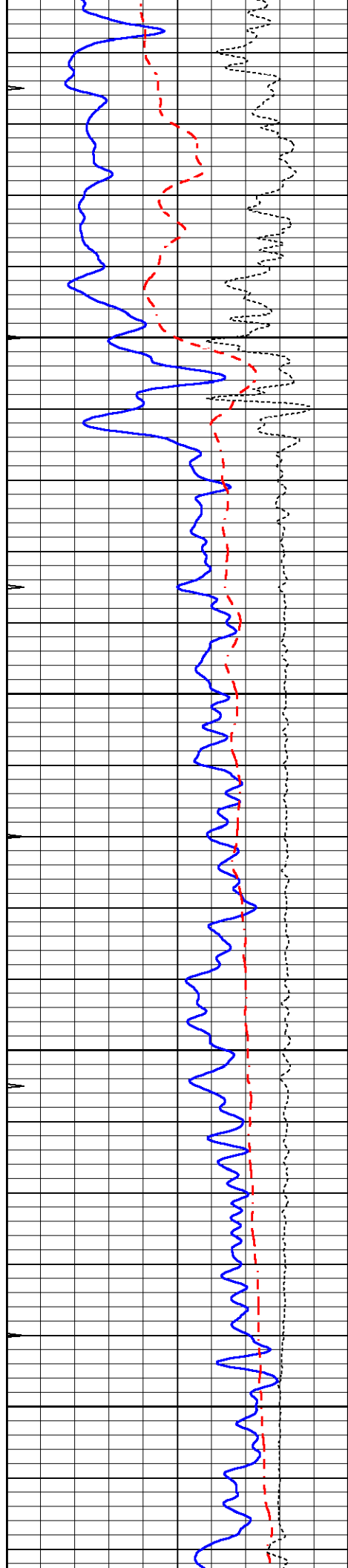
1700

1750

1800

1850



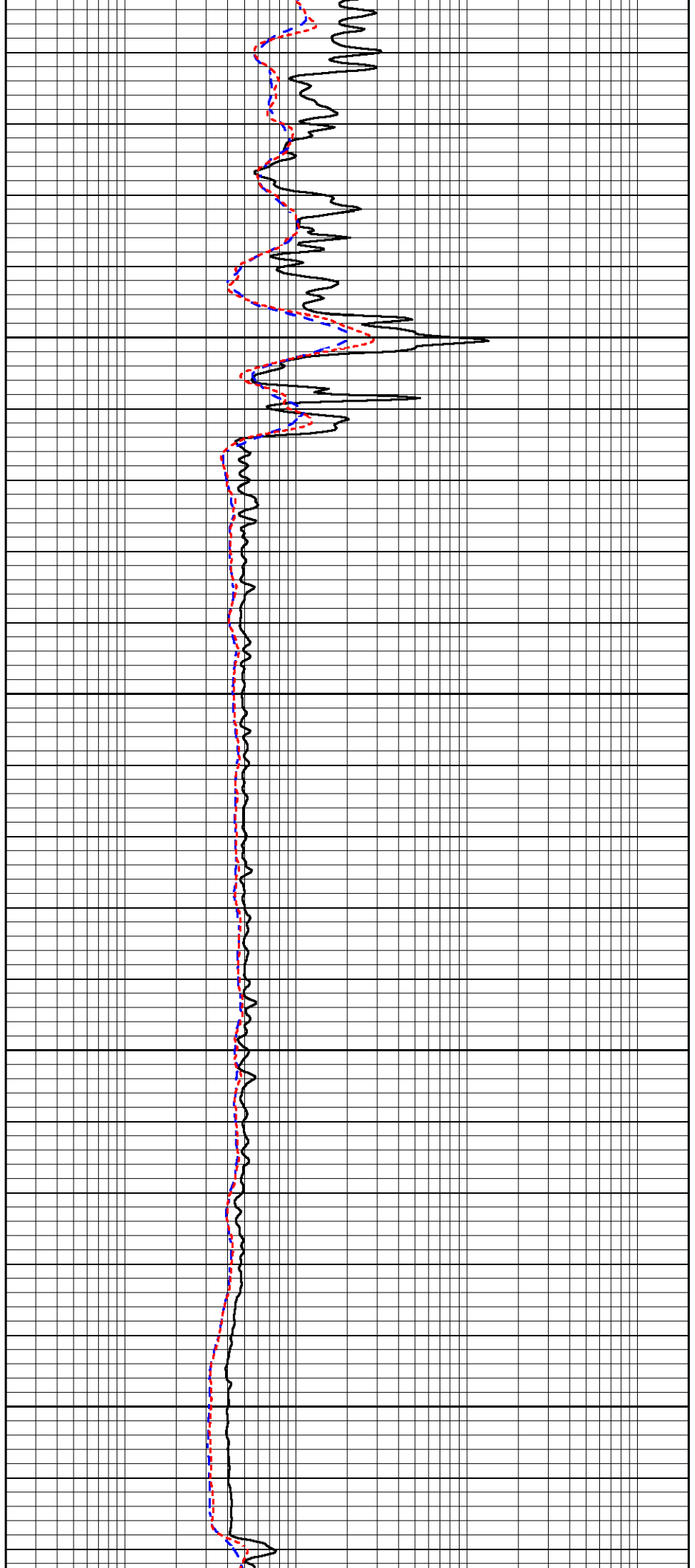


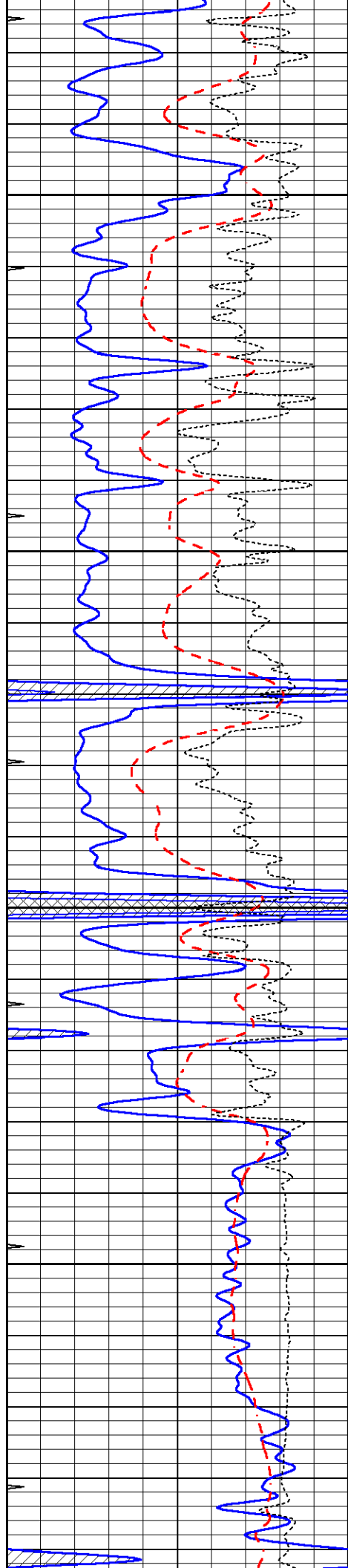
1900

1950

2000

2050



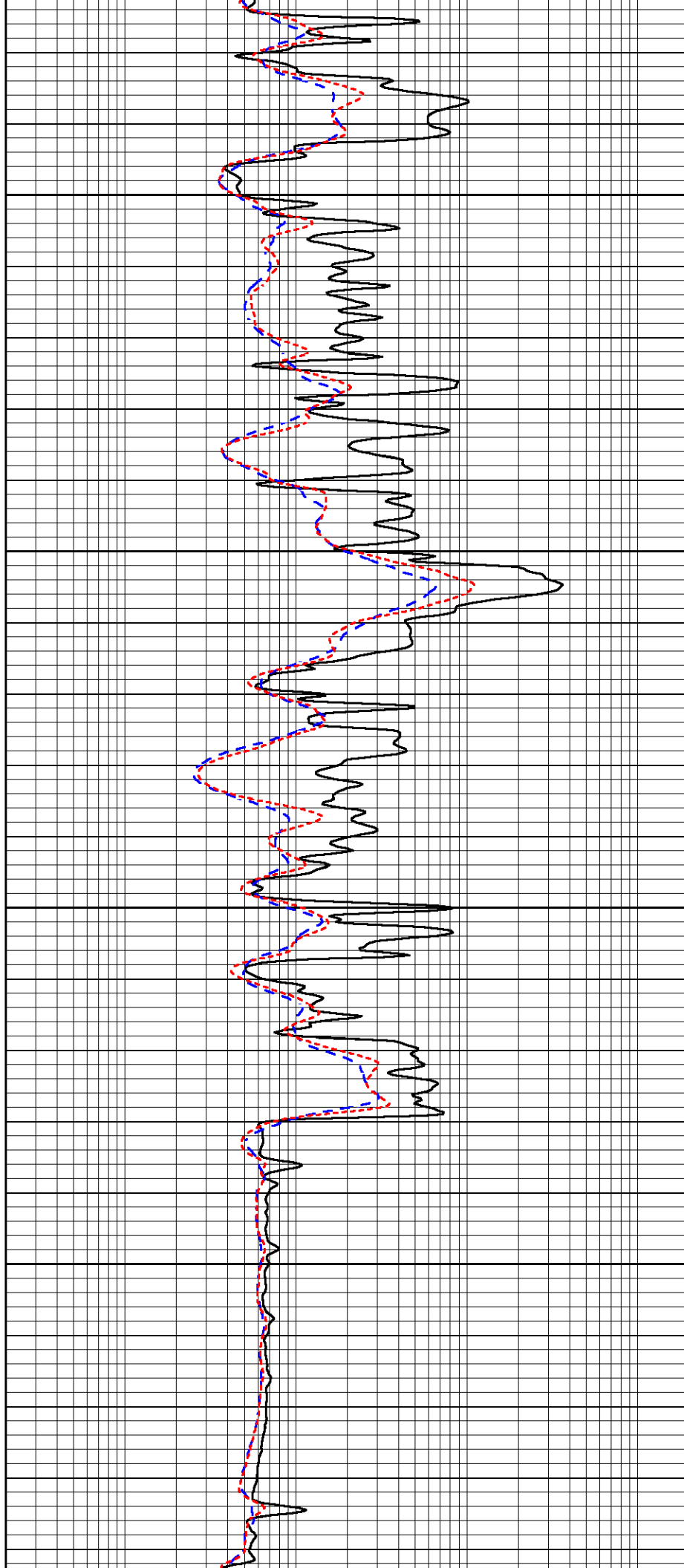


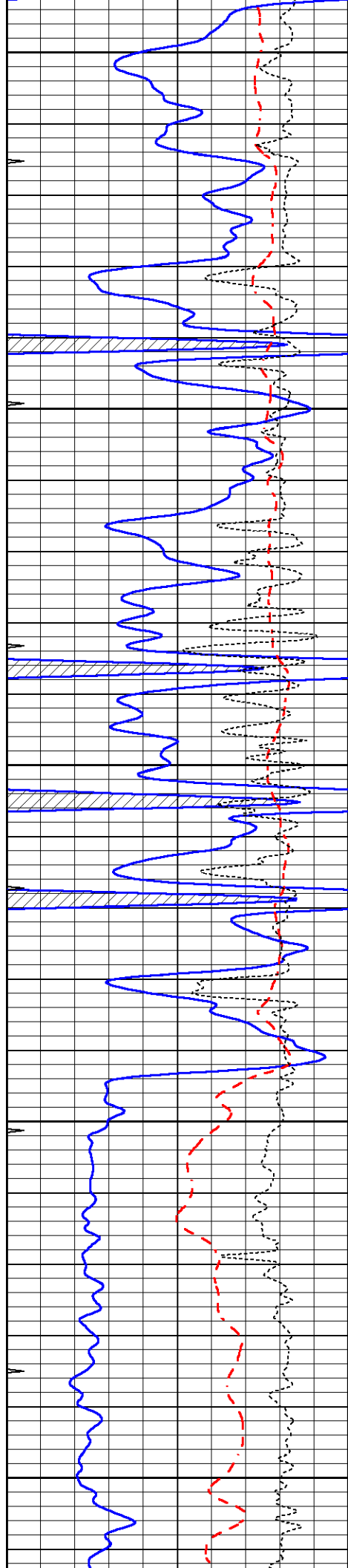
2100

2150

2200

2250





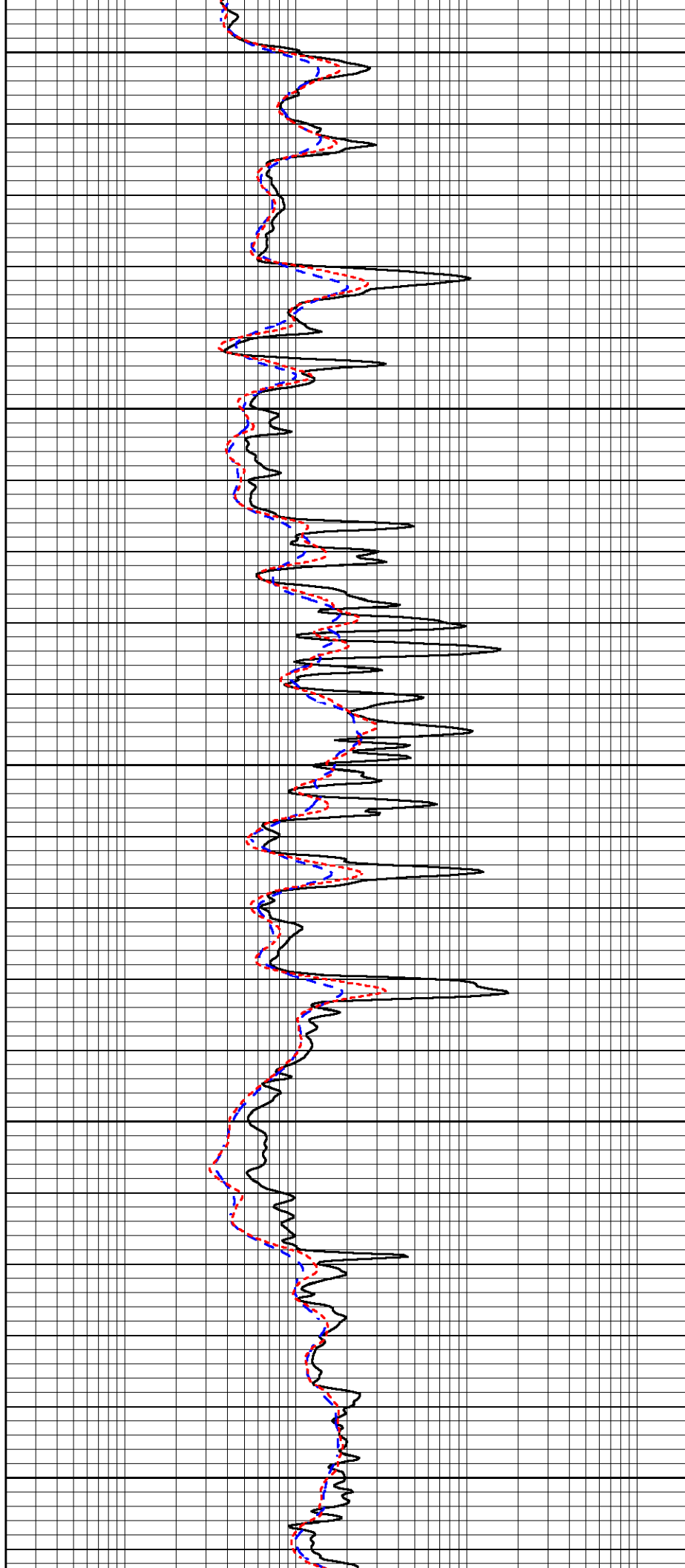
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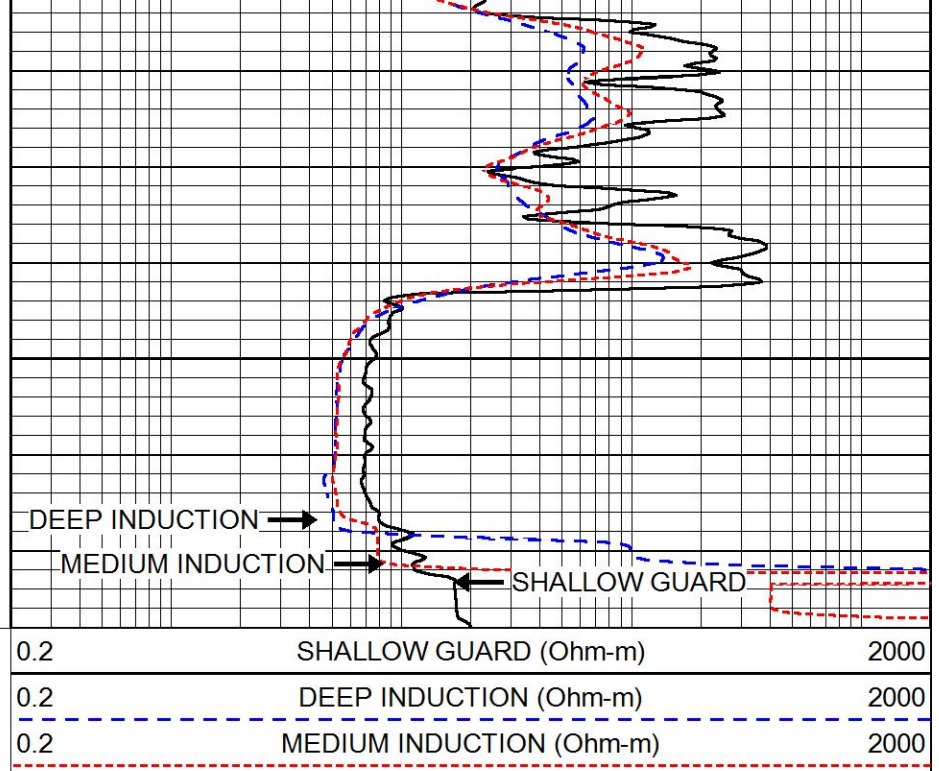
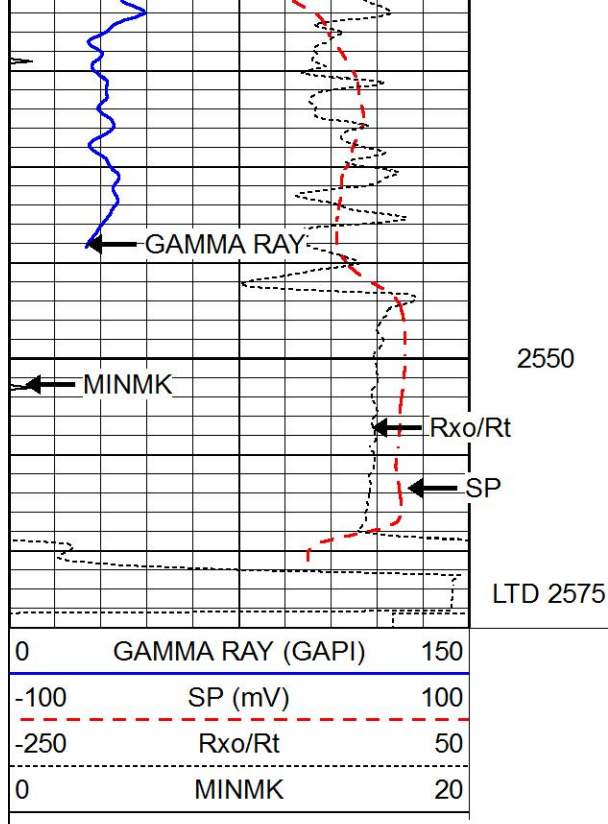
2350

2400

2450

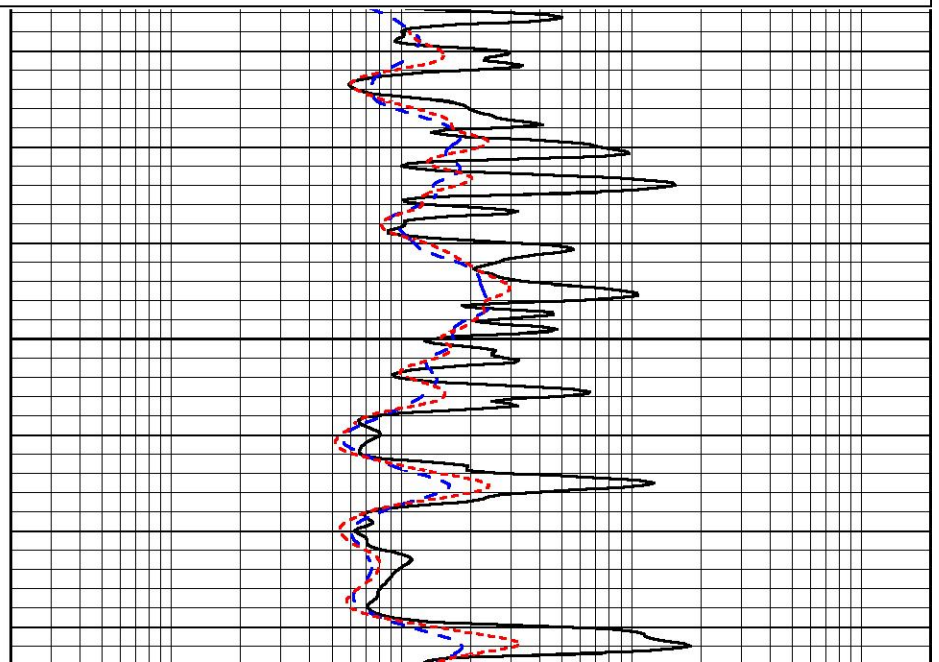
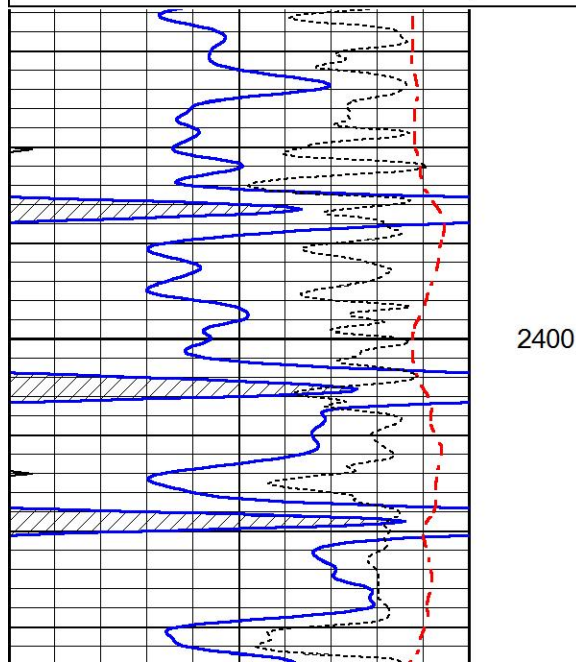
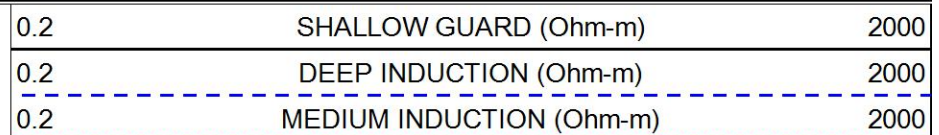
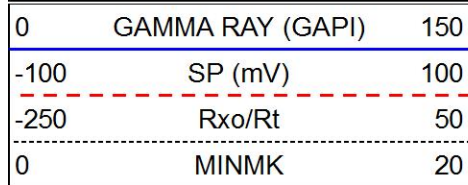
2500

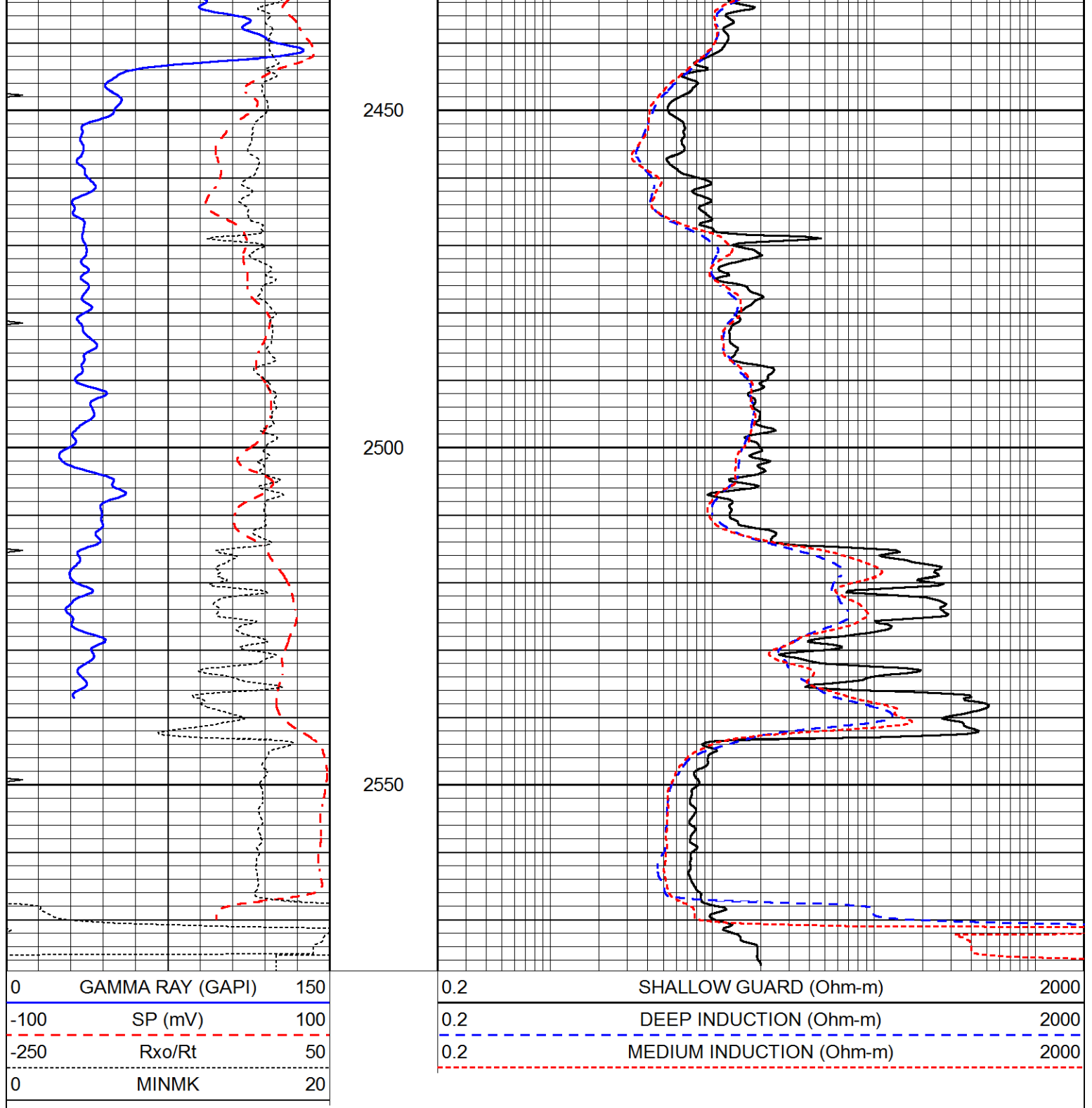




REPEAT SECTION

Database File 5439ddn.db
 Dataset Pathname pass2.1
 Presentation Format _dil
 Dataset Creation Fri Jun 04 08:33:20 2021
 Charted by Depth in Feet scaled 1:240





Calibration Report

Database File 5439ddn.db
 Dataset Pathname pass2.1
 Dataset Creation Fri Jun 04 08:33:20 2021

Dual Induction Calibration Report

Serial-Model: PROBE8-DILG
 Surface Cal Performed: Mon Sep 10 14:28:35 2018
 Downhole Cal Performed: Mon Sep 10 14:28:38 2018
 After Survey Verification Performed: Mon Sep 10 14:28:40 2018

Surface Calibration

Readings

References

Results

Loop:	Air	Loop		Air	Loop		m	b
Deep	0.015	0.648	V	0.000	400.000	mmho/m	620.000	0.000
Medium	0.029	0.796	V	0.000	464.000	mmho/m	590.000	-12.000
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			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		

Litho Density Calibration Report								
Serial: 001N			Model: PRB					

Master Calibration					Performed Thu Mar 19 11:30:16 2020			
	Background	Magnesium	Aluminum	Aluminum+Fe				
Window 1	1572.2	7510.8	2837.3	2643.1				cps
Window 2	1446.2	6523.9	2552.8	2409.9				cps
Window 3	1060.9	3611.4	1731.5	1684.8				cps
Window 4	145.5	363.4	363.2	368.1				cps
Long Space	0.0	5077.7	1106.6	963.7				cps
Short Space	3.1	1709.3	1103.4	916.9				cps
Rho		1.7100	2.5900	0.0000				g/cc
Pe		2.0000	2.7500	5.7900				
Rib Angle	: 44.0	Rib Slope	: 0.965	Density/Spine Ratio			: 0.555	
Spine Angle	: 74.0	Spine Slope	: 3.481	Spine Intercept			: -17.4	

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			
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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: 6I
Tool Model: G

CALIBRATION

Detector	Readings		Target		Normalization
Short Space	1.00	cps	1.00	cps	1.0000
Long Space	1.00	cps	1.00	cps	1.0000

PRE-SURVEY VERIFICATION

	Detector	Readings	Measured	Target
1)	Short Space	cps		
	Long Space	cps	pu	pu
2)	Short Space	cps		
	Long Space	cps	pu	
3)	Short Space	cps		
	Long Space	cps	pu	

POST-SURVEY VERIFICATION

	Detector	Readings	Measured	Target
1)	Short Space	cps		
	Long Space	cps	pu	pu
2)	Short Space	cps		
	Long Space	cps	pu	pu
3)	Short Space	cps		
	Long Space	cps	pu	pu

Gamma Ray Calibration Report

Serial Number: GR6
Tool Model: OPEN
Performed: Thu Jul 30 20:04:35 2020

Calibrator Value: 150.0 GAPI

Background Reading: 0.0 cps
Calibrator Reading: 276.0 cps

Sensitivity: 0.7500 GAPI/cps