



DUAL INDUCTION LOG

Company	ROCKHOUND PETROLEUM,LLC.	Company	ROCKHOUND PETROLEUM,LLC.
Well	DUNN #1	Well	DUNN #1
Field	N/A	Field	N/A
County	STAFFORD	County	STAFFORD
State	KANSAS	State	KANSAS
Location:	AP1 #: 15-185-24085-0000 SW/SW/NE/NW 1070' FNL & 1415' FWL	Other Services DIL ML/SO	
Permanent Datum	SEC 8 TWP 23S RGE 13W	Elevation	
Log Measured From	GROUND LEVEL Elevation 1898	K.B. 1906	
Drilling Measured From	KELLY BUSHING 8' A.G.L. KELLY BUSHING	D.F. 1904	
		G.L. 1898	
Date	8/9/21		
Run Number	ONE		
Depth Driller	3970		
Depth Logger	3968		
Bottom Logged Interval	3966		
Top Log Interval	450		
Casing Driller	8 5/8" @ 485		
Casing Logger	485		
Bit Size	7 7/8"		
Type Fluid in Hole	CHEMICAL MUD		
Density / Viscosity	9/47		
pH / Fluid Loss	9.5/11.6		
Source of Sample	FLOWLINE		
Rm @ Meas. Temp	.6@ 70F		
Rmf @ Meas. Temp	.45@ 70F		
Rmc @ Meas. Temp	.72 @ 70F		
Source of Rmf / Rmc	MEASURED		
Rm @ BHT	.36@ 116F		
Time Circulation Stopped	2 HOURS		
Time Logger on Bottom	////		
Maximum Recorded Temperature	116F		
Equipment Number	1523		
Location	HAYS, KANSAS		
Recorded By	GUS PFANENSTIEL		
Witnessed By	KEATON JONES		

<<< Fold Here >>>

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

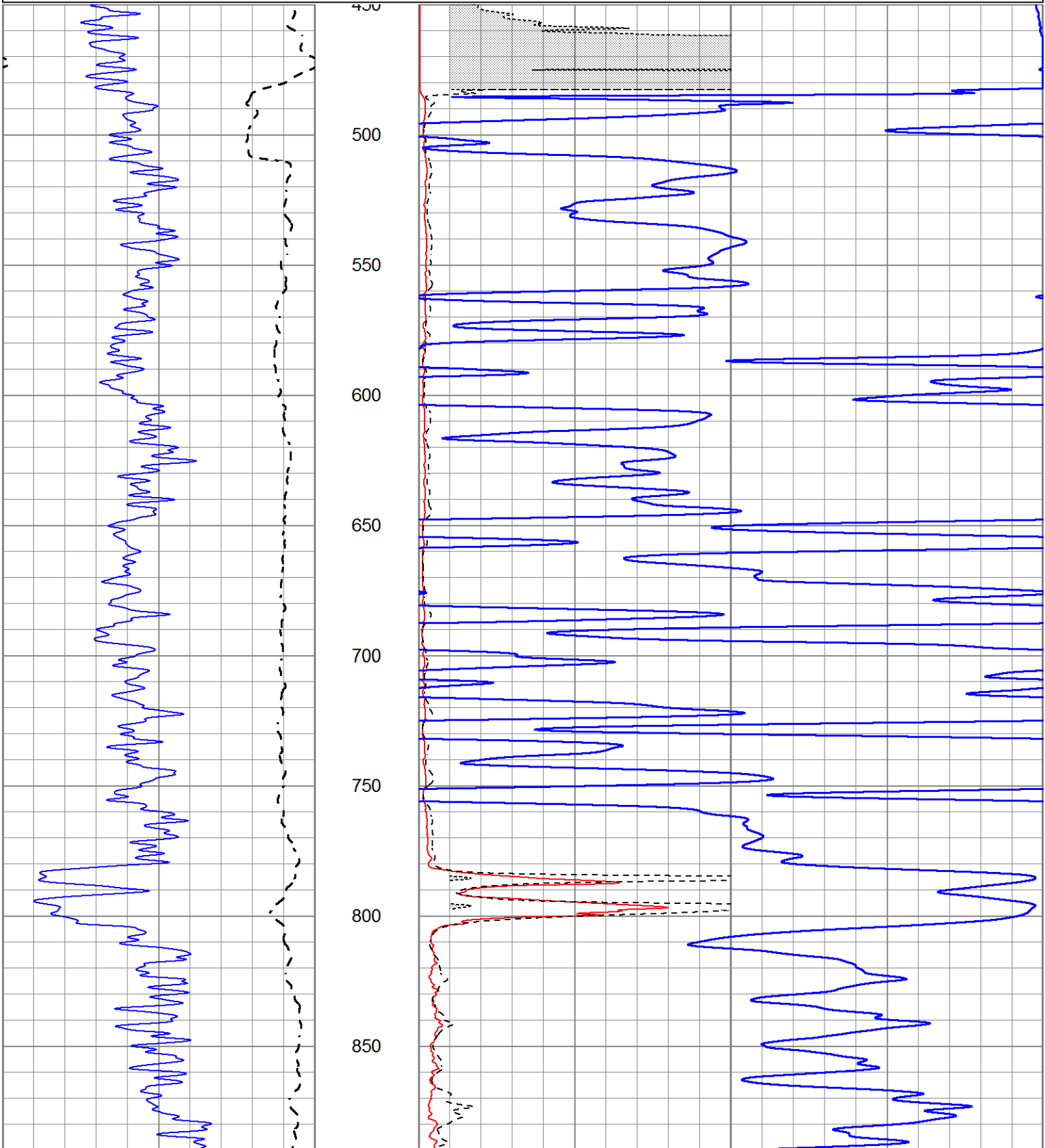
THANK YOU FOR USING ELI WIRELINE, HAYS, KS. (785) 628-6395

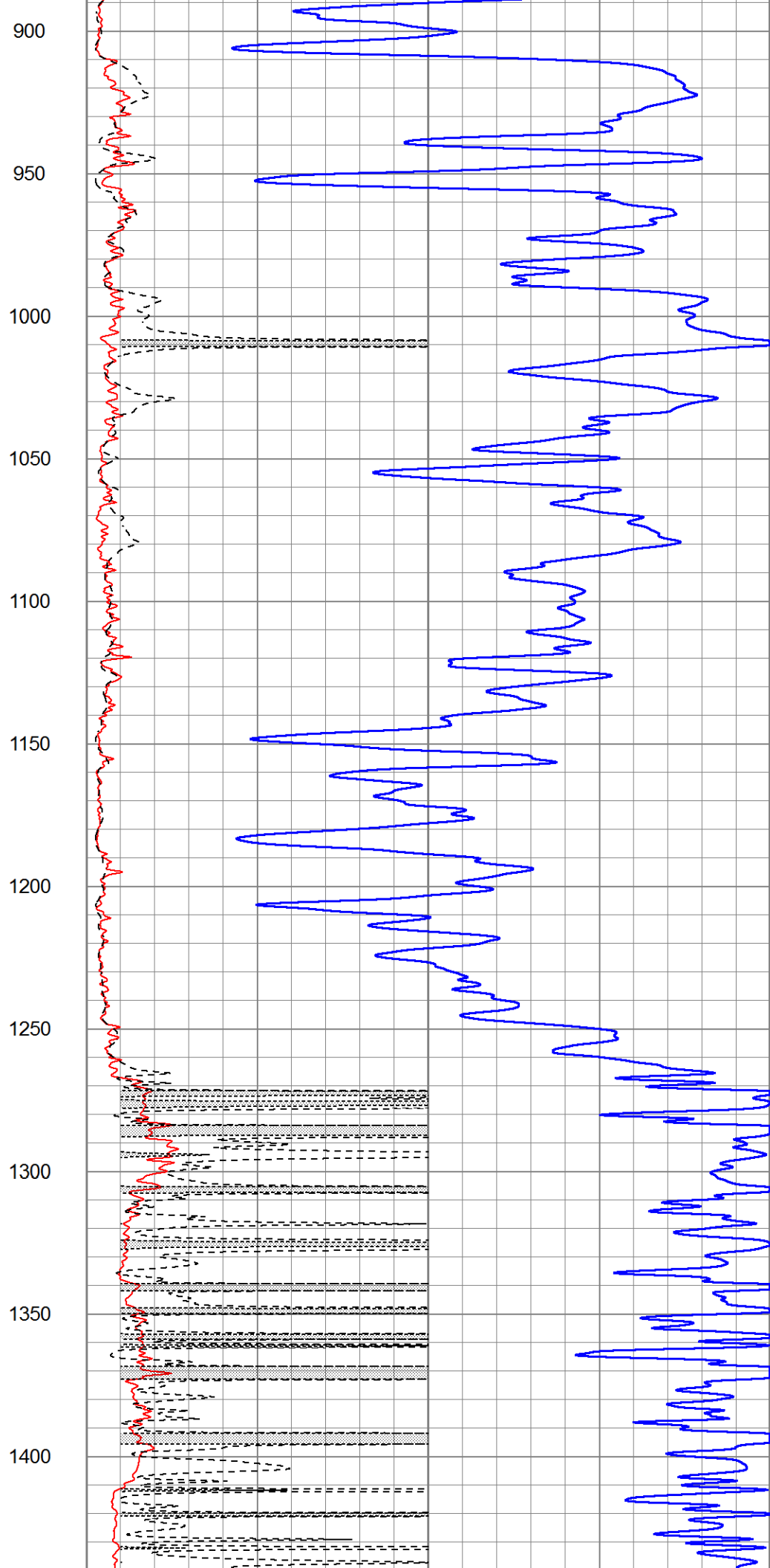
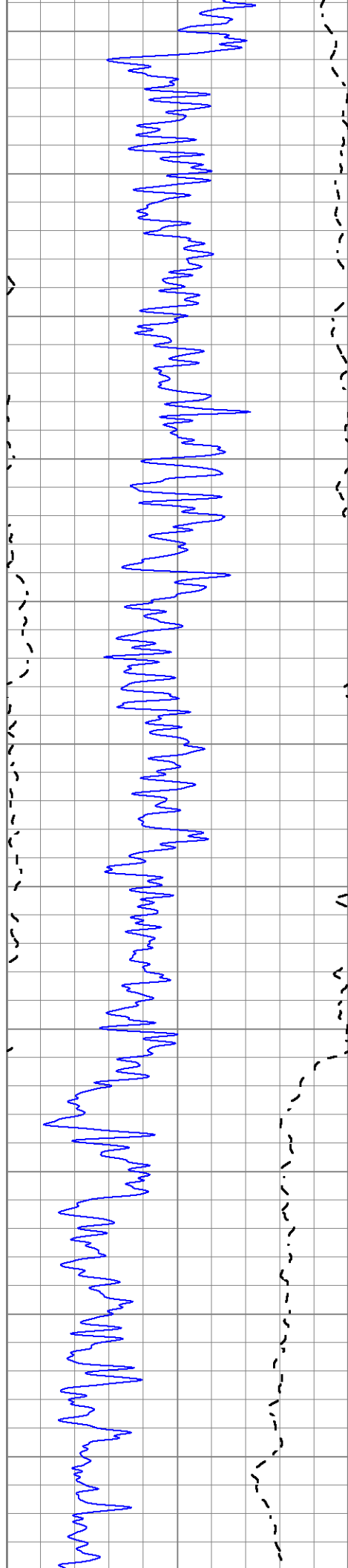
DIRECTIONS: ST. JOHN NORTH TO 80 RD., WEST 1.5 MILES
SOUTH INTO.

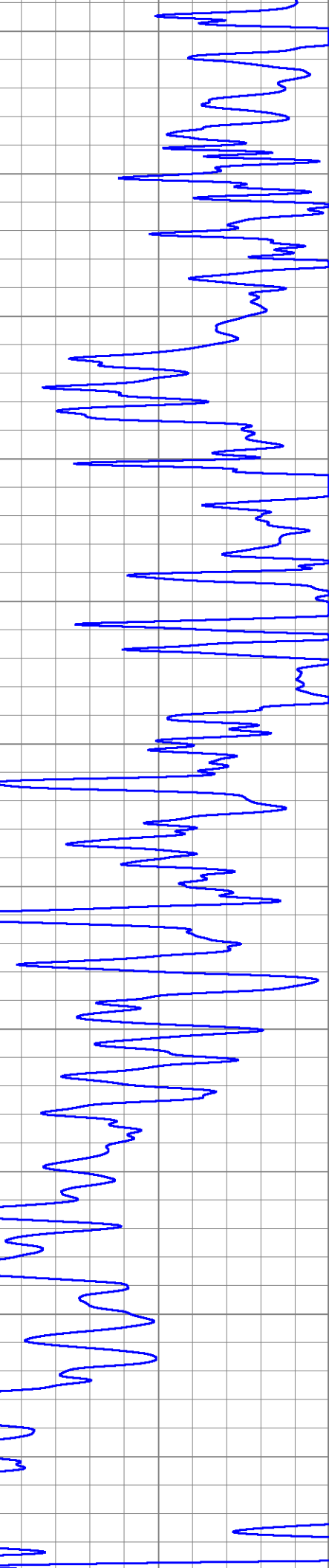
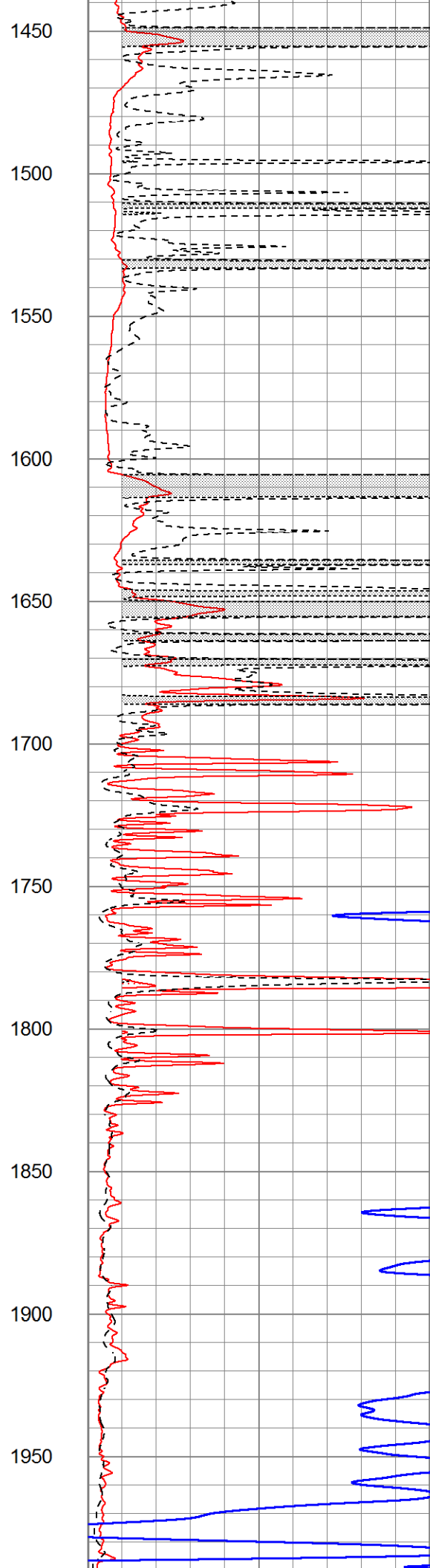
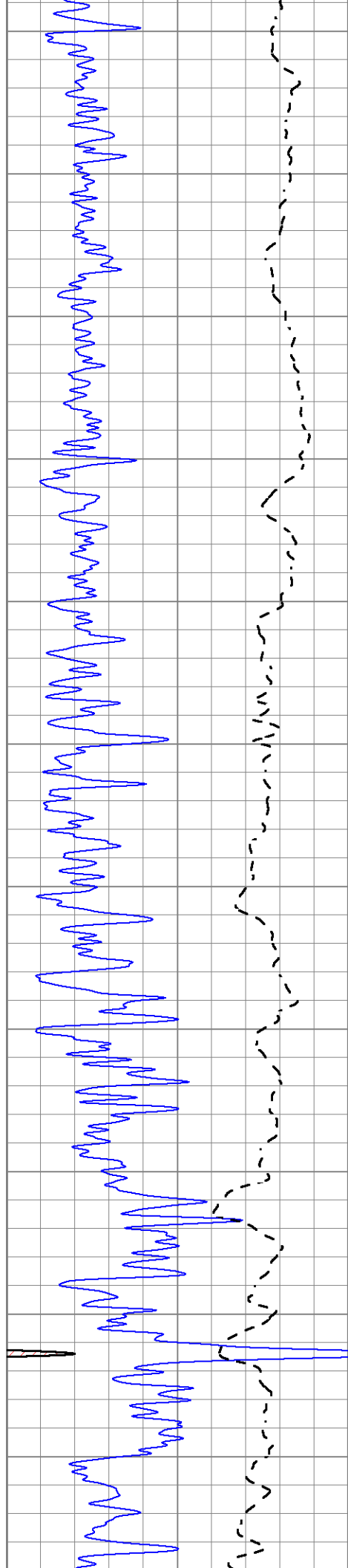


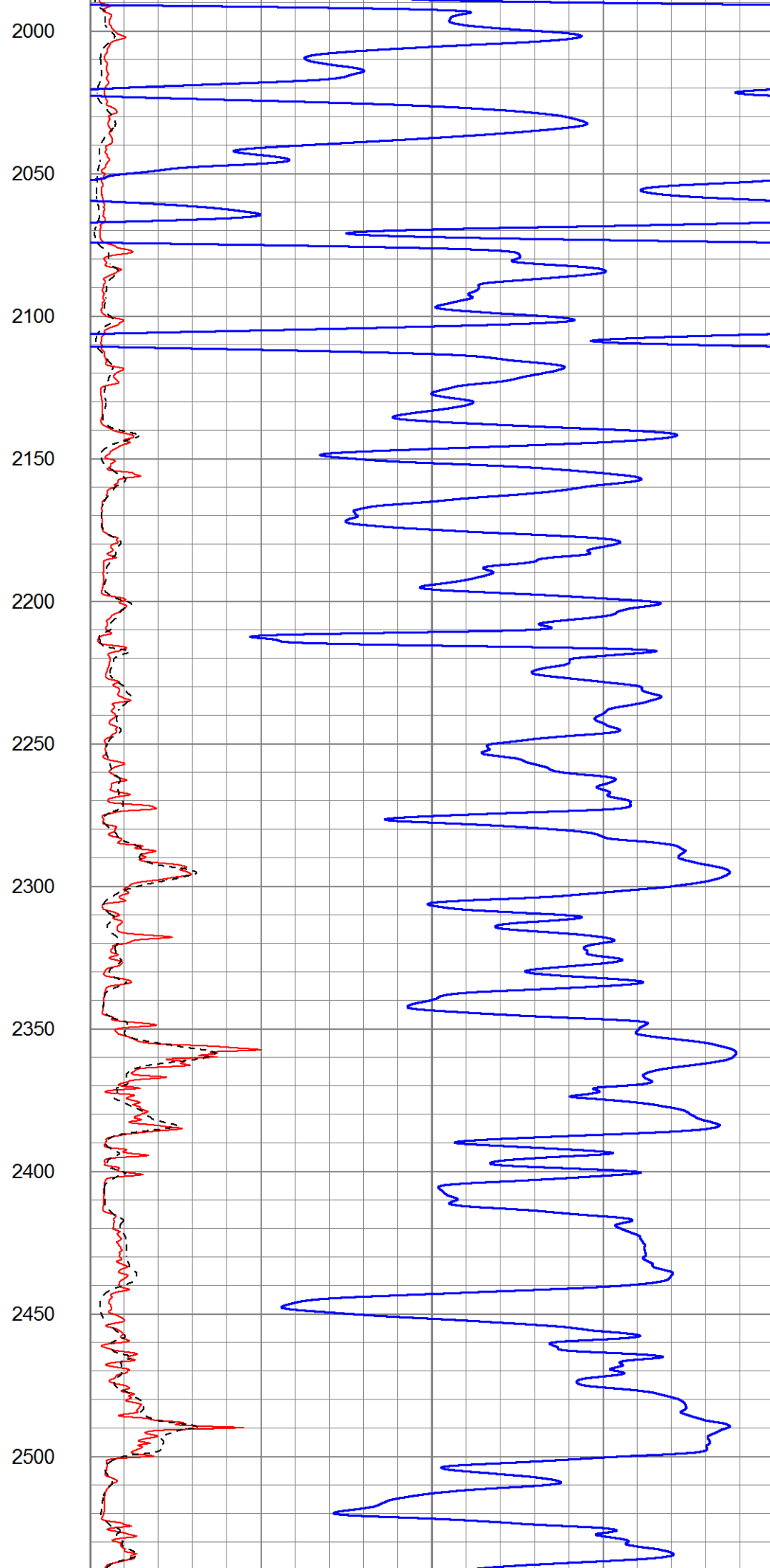
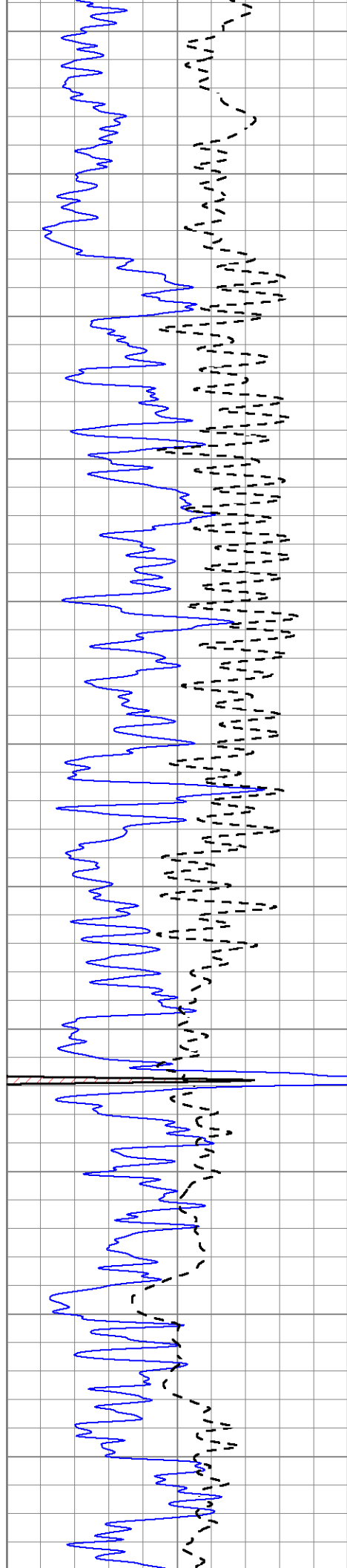
MAIN PASS

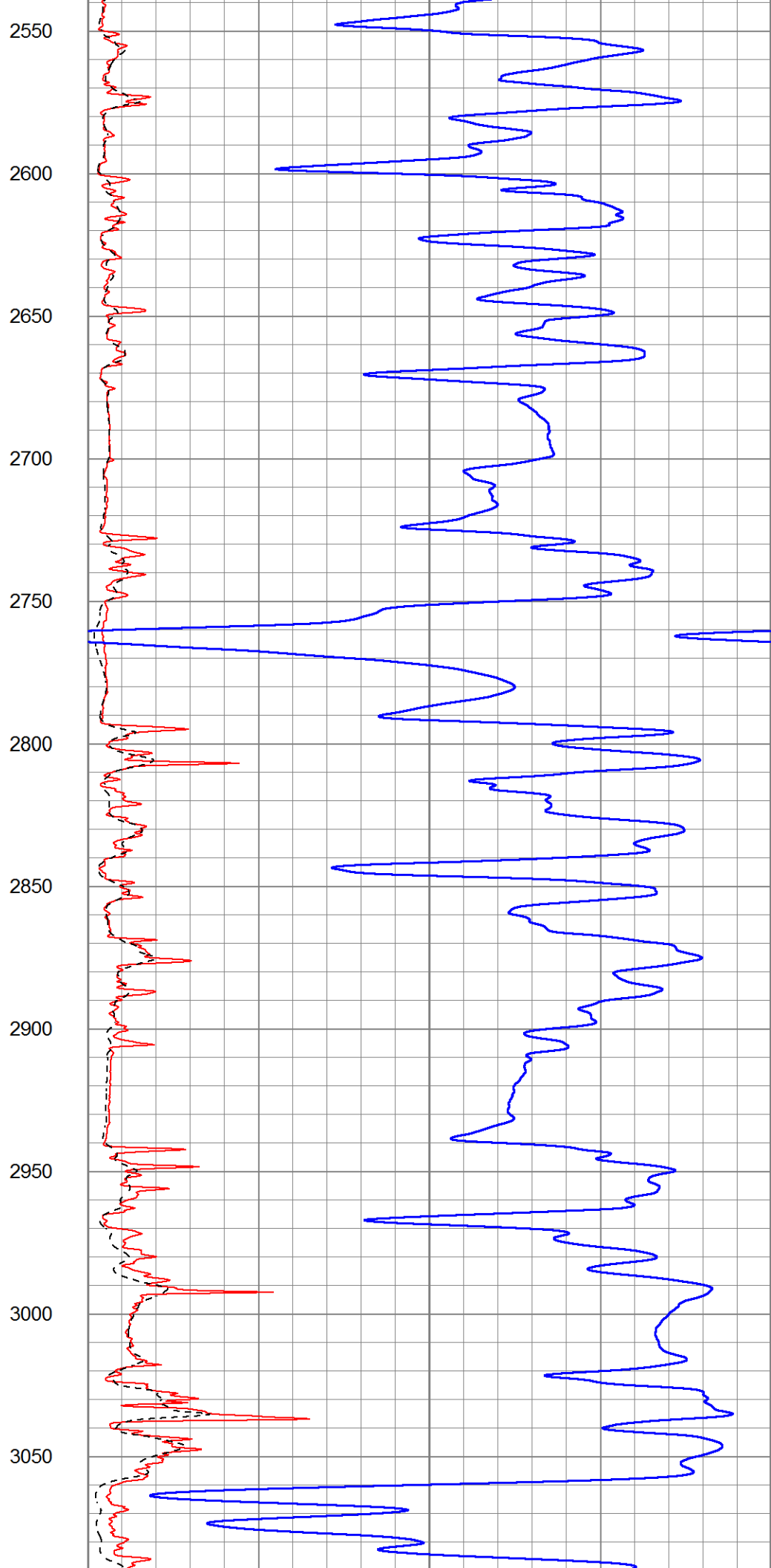
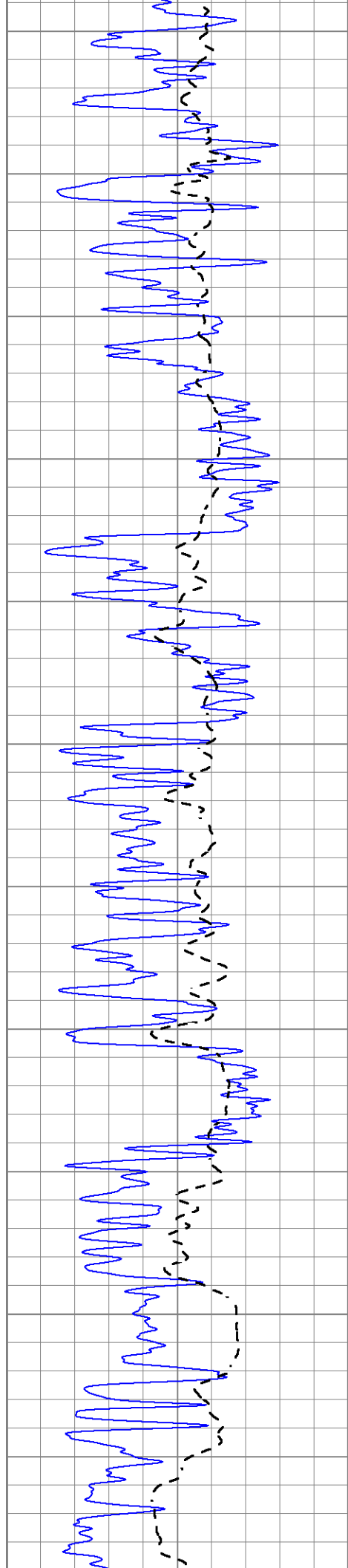
0	Gamma Ray (GAPI)	150	1000	CILD (mmho/m)	0
-100	SP (mV)	100	0	RLL3 (Ohm-m)	50
-----			0	RILD (Ohm-m)	50
			50	RILD X10 (Ohm-m)	500
			50	RLL3 X10 (Ohm-m)	500

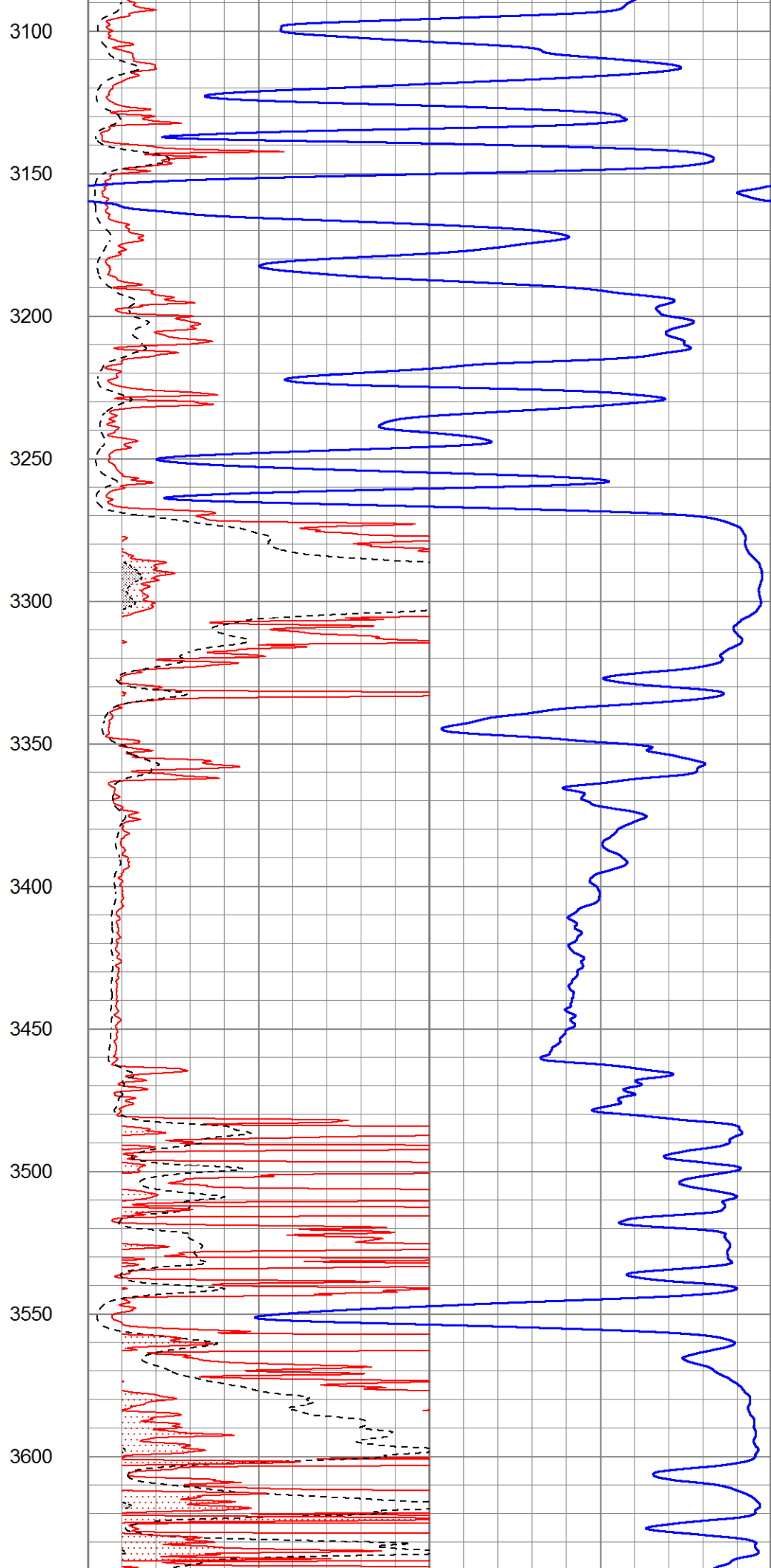
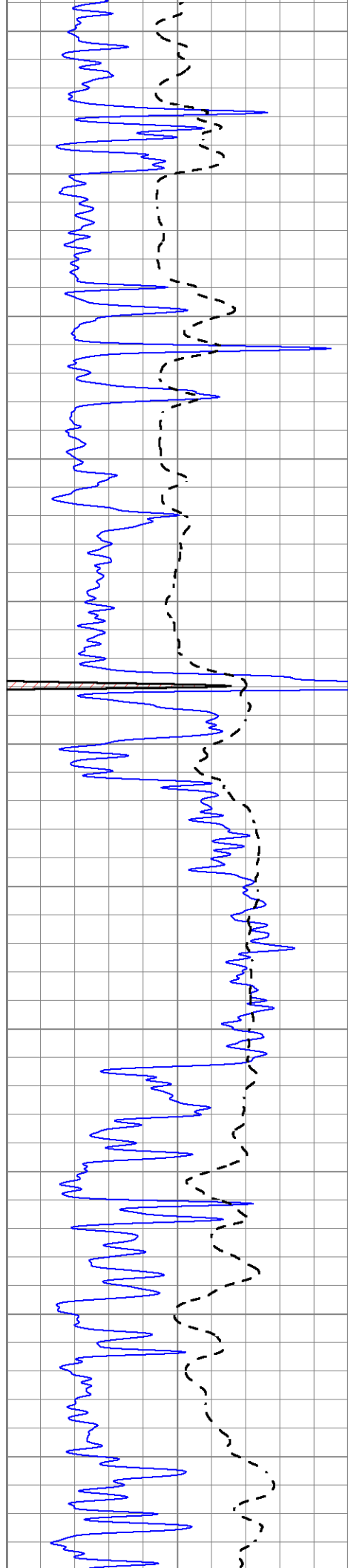


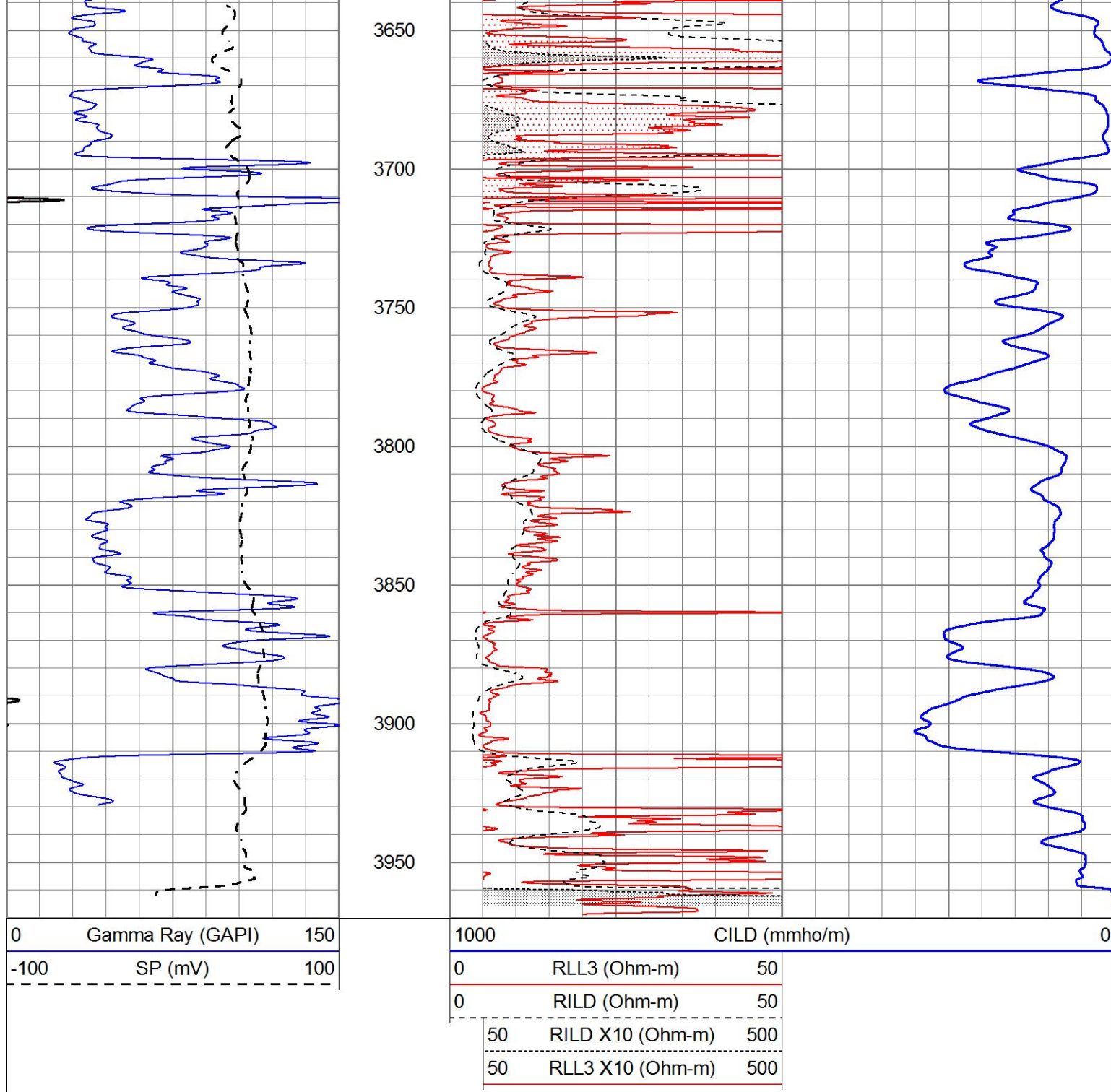








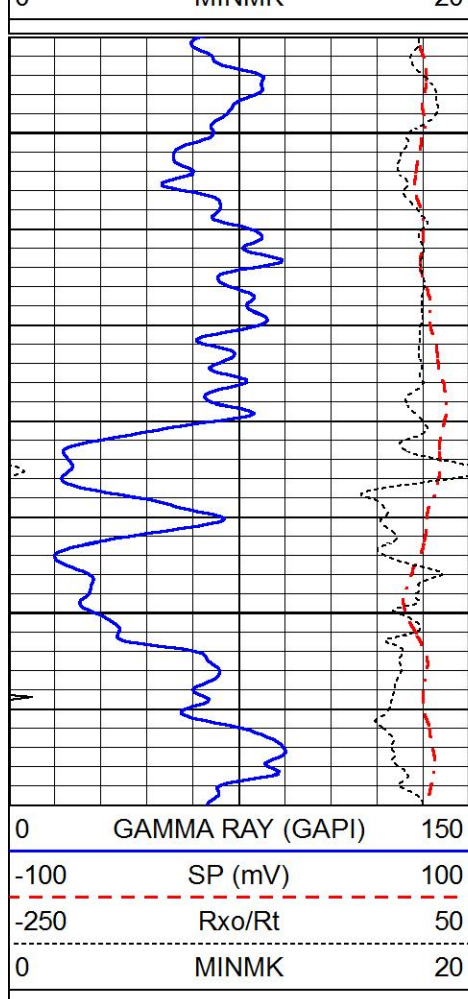




MAIN PASS

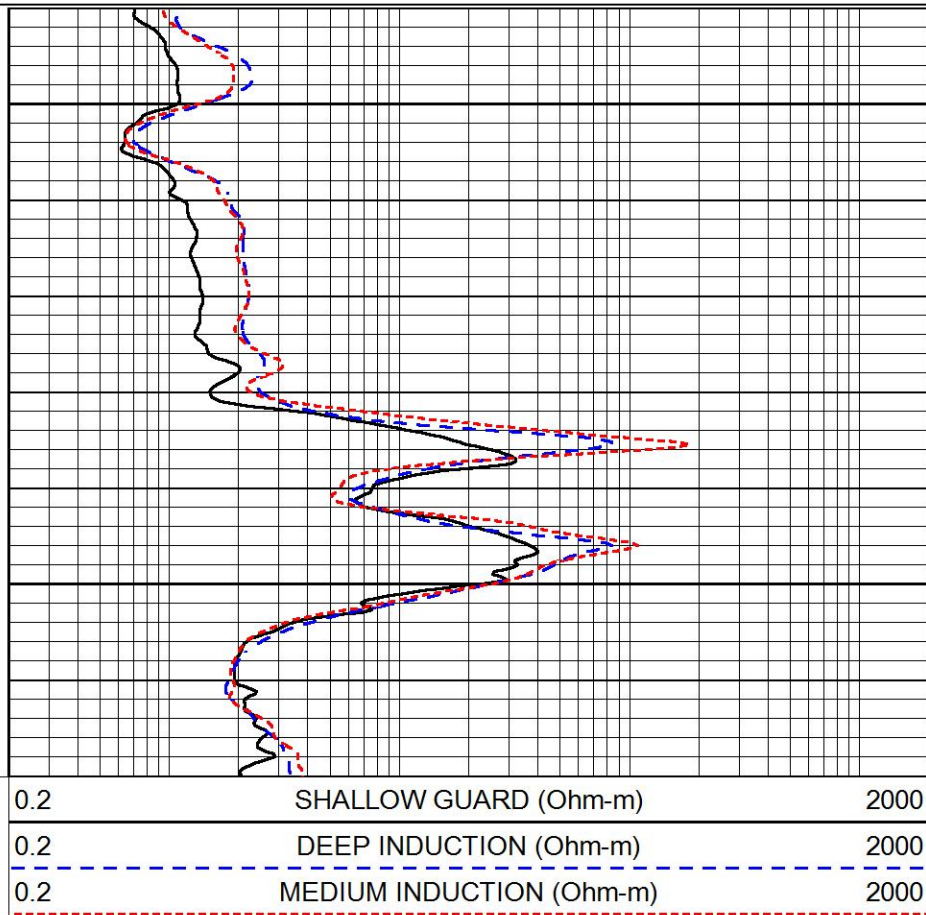
Database File 5612ddn.db
 Dataset Pathname pass3.1
 Presentation Format _dil
 Dataset Creation Mon Aug 09 01:36:10 2021
 Charted by Depth in Feet scaled 1:240

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



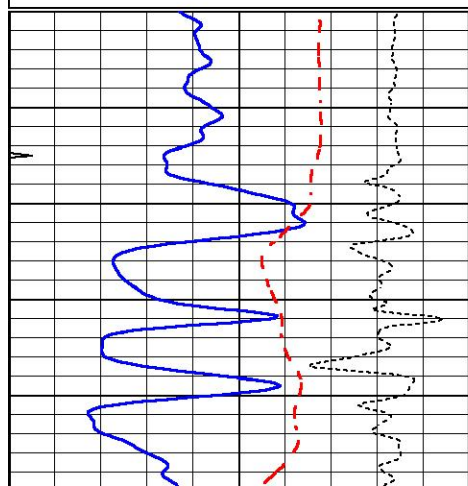
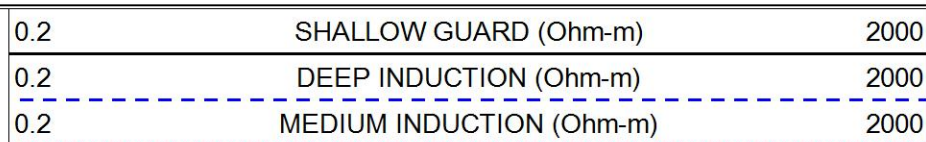
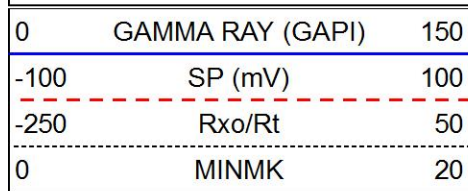
750

800



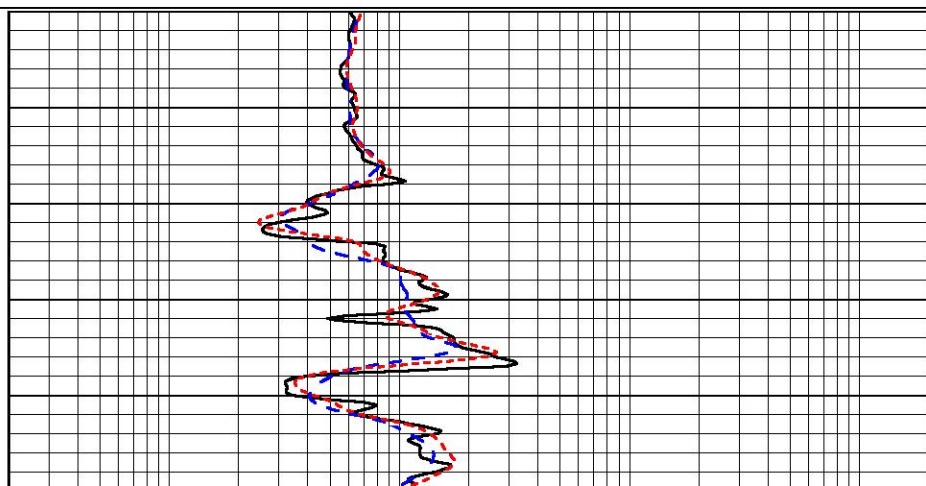
MAIN PASS

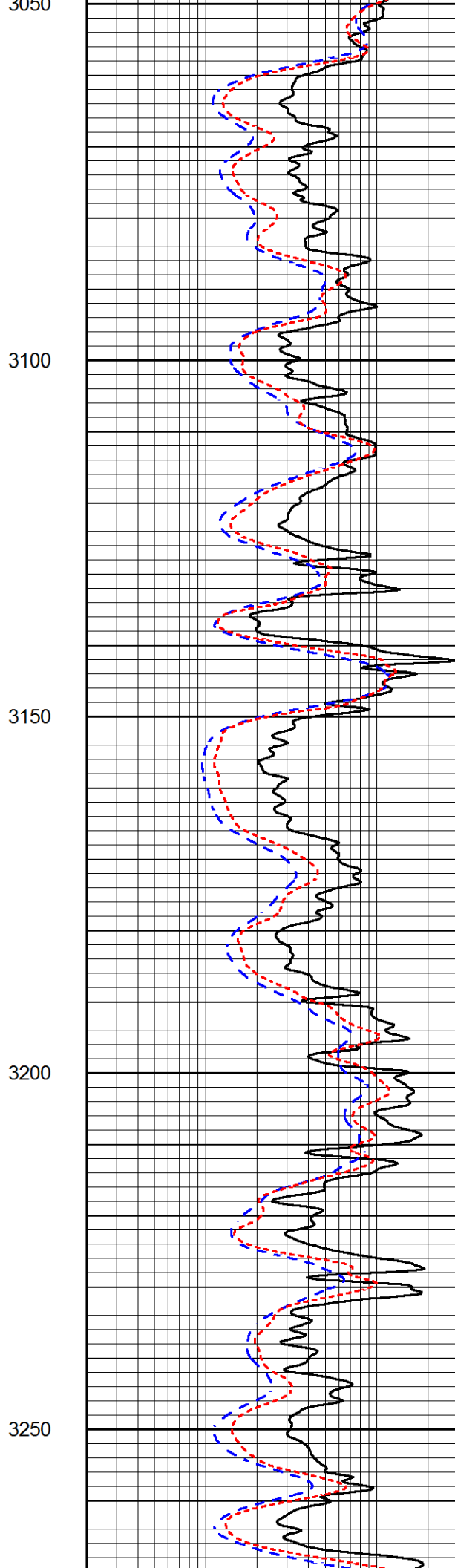
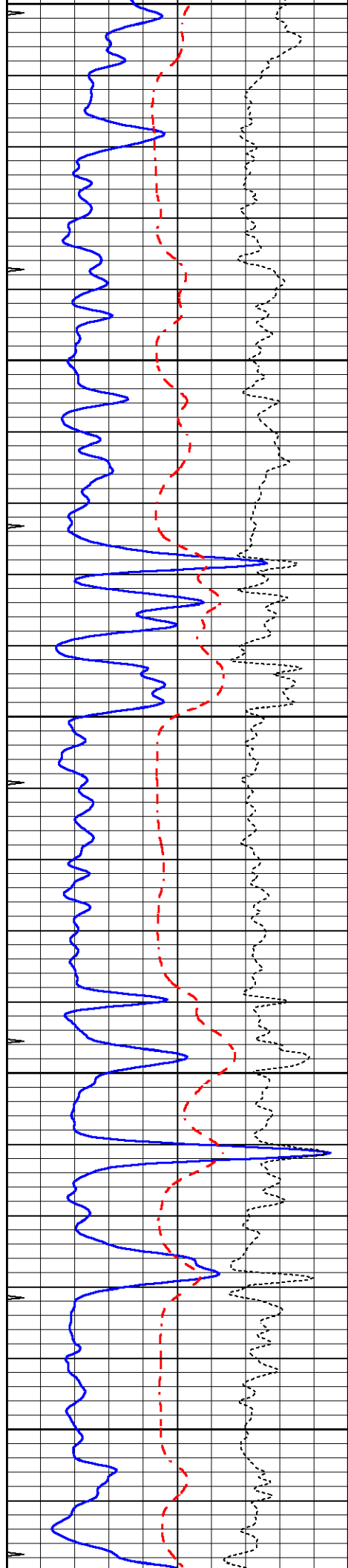
Database File 5612ddn.db
 Dataset Pathname pass3.1
 Presentation Format _dil
 Dataset Creation Mon Aug 09 01:36:10 2021
 Charted by Depth in Feet scaled 1:240

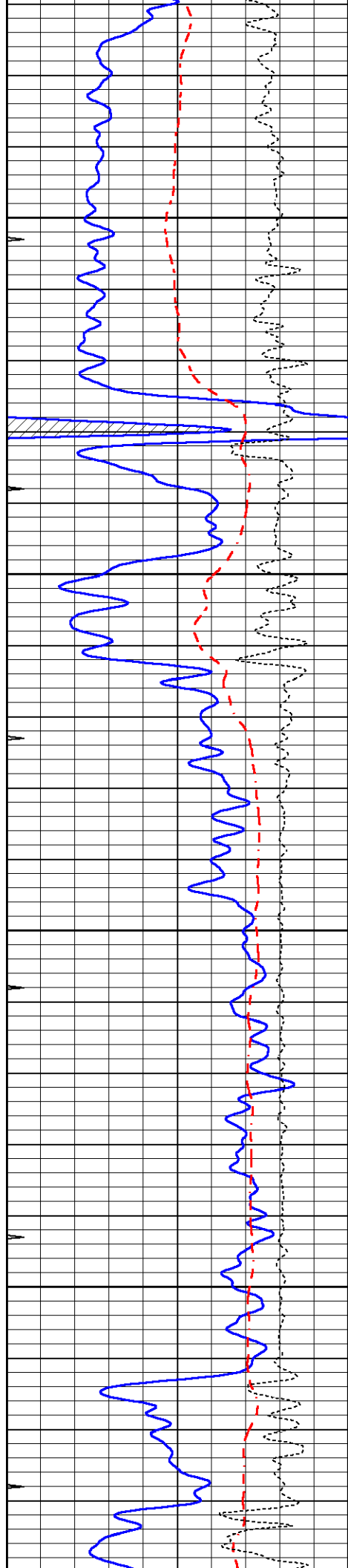


3000

3250





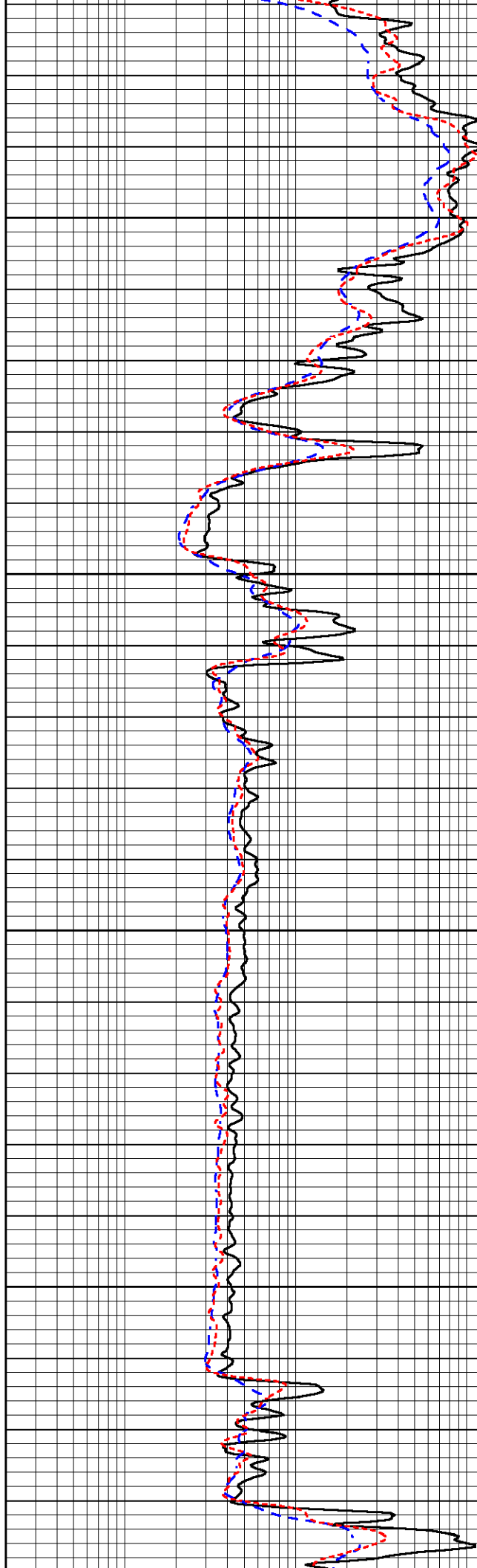


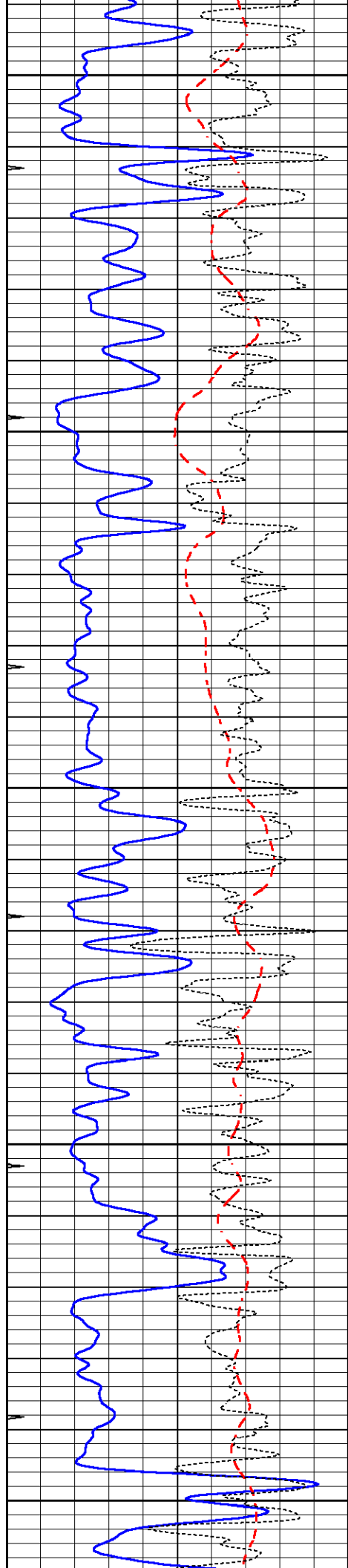
3300

3350

3400

3450





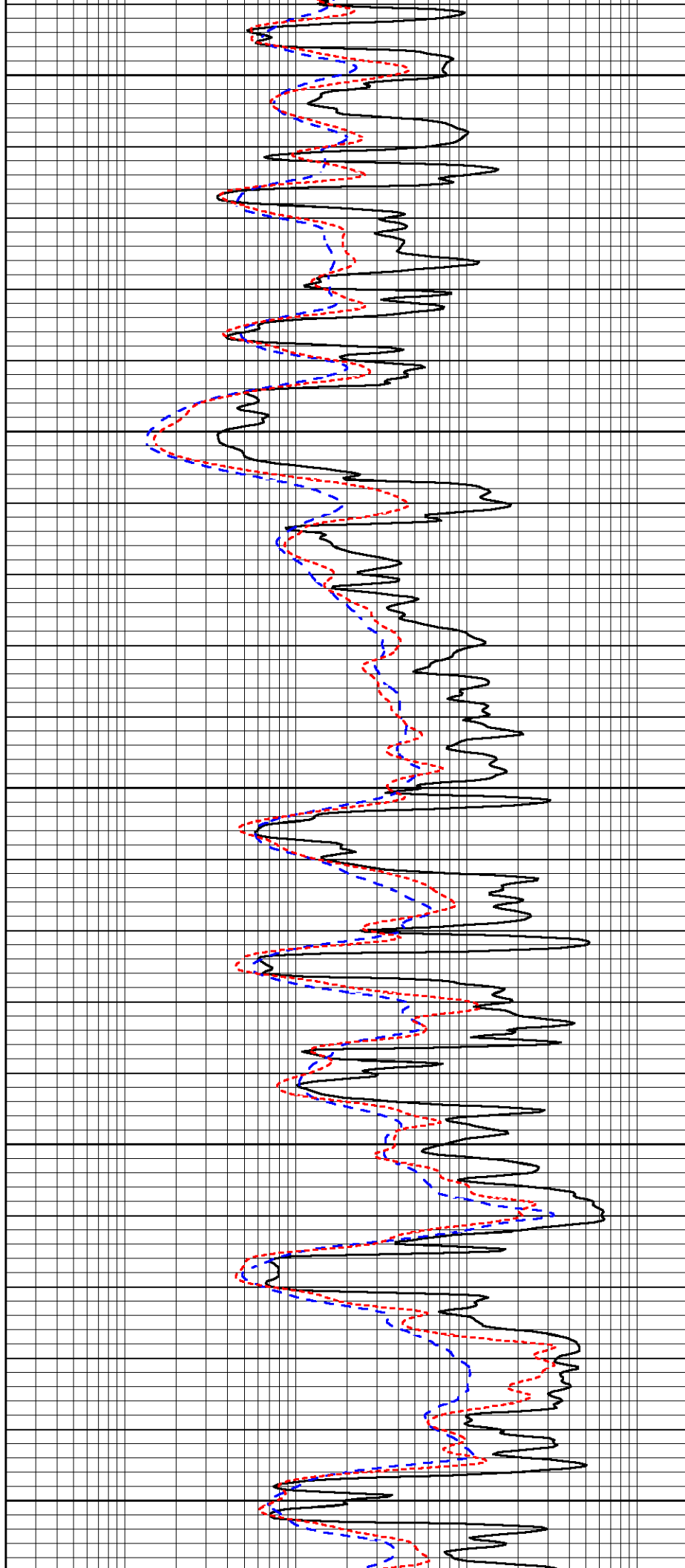
3500

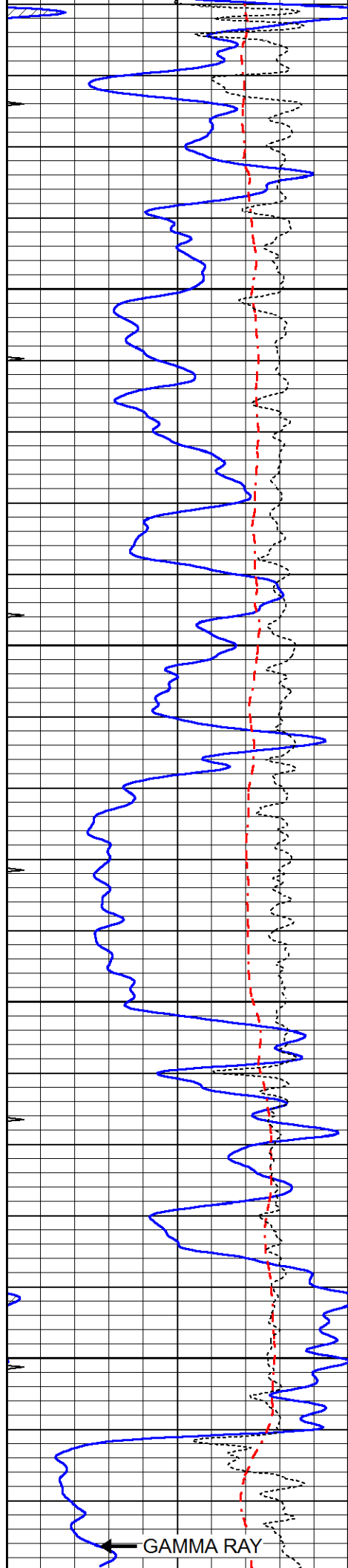
3550

3600

3650

3700



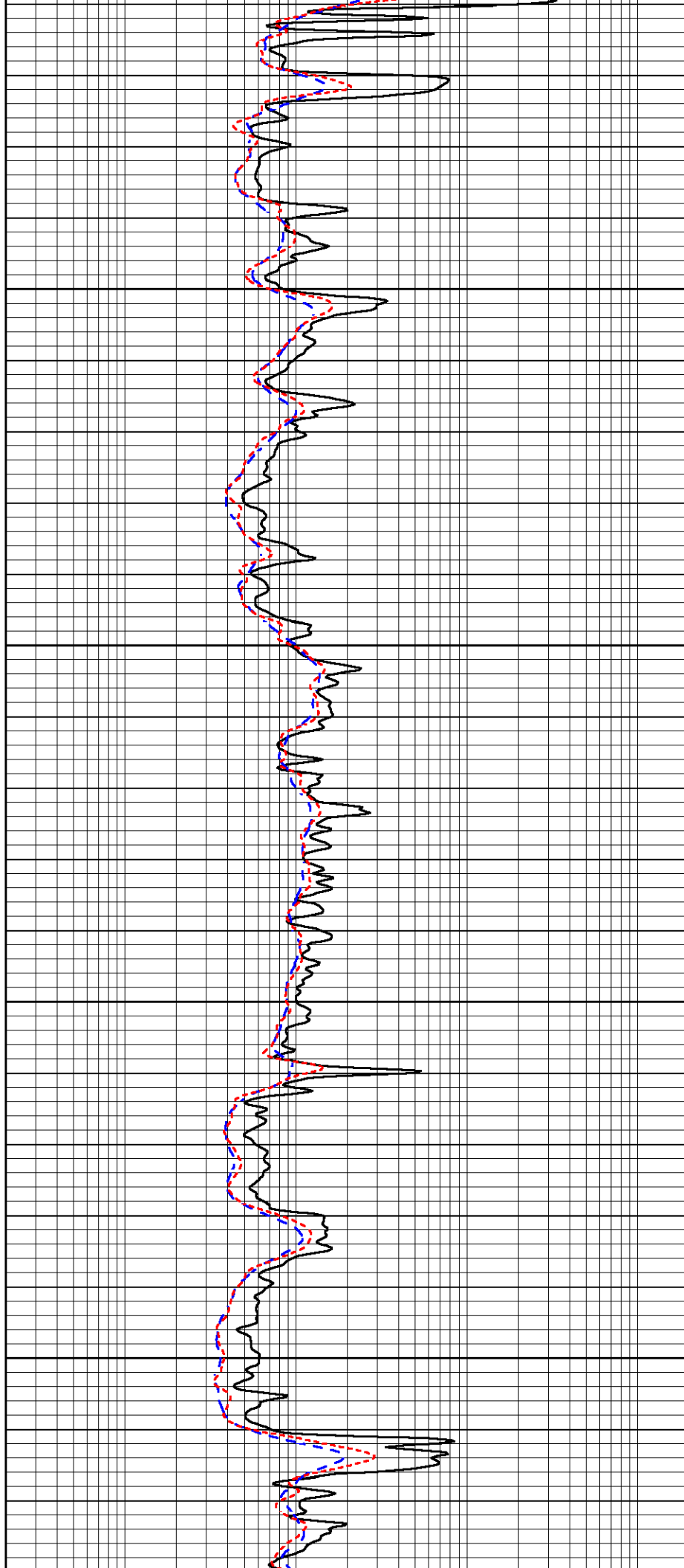


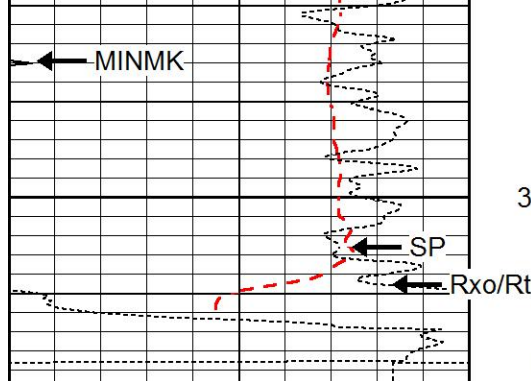
3750

3800

3850

3900

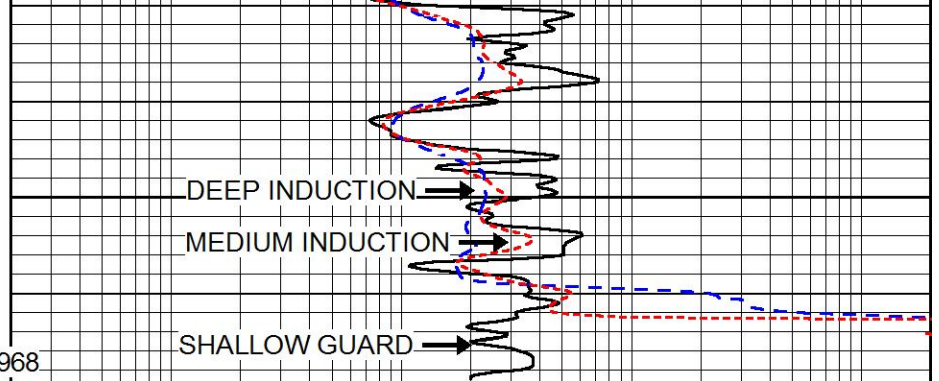




0	GAMMA RAY (GAPI)	150
-100	SP (mV)	100
-250	Rxo/Rt	50
0	MINMK	20

3950

LTD 3968



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

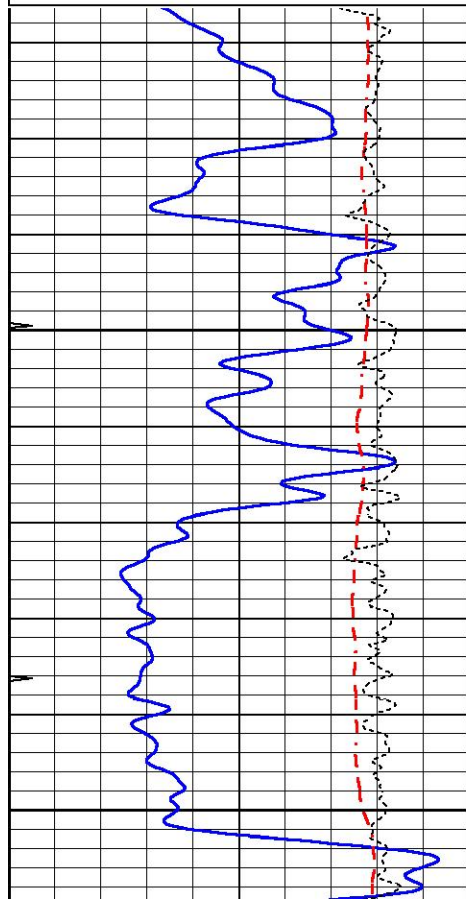


REPEAT SECTION

Database File 5612ddn.db
 Dataset Pathname pass2RP
 Presentation Format _dil
 Dataset Creation Mon Aug 09 01:40:29 2021
 Charted by Depth in Feet scaled 1:240

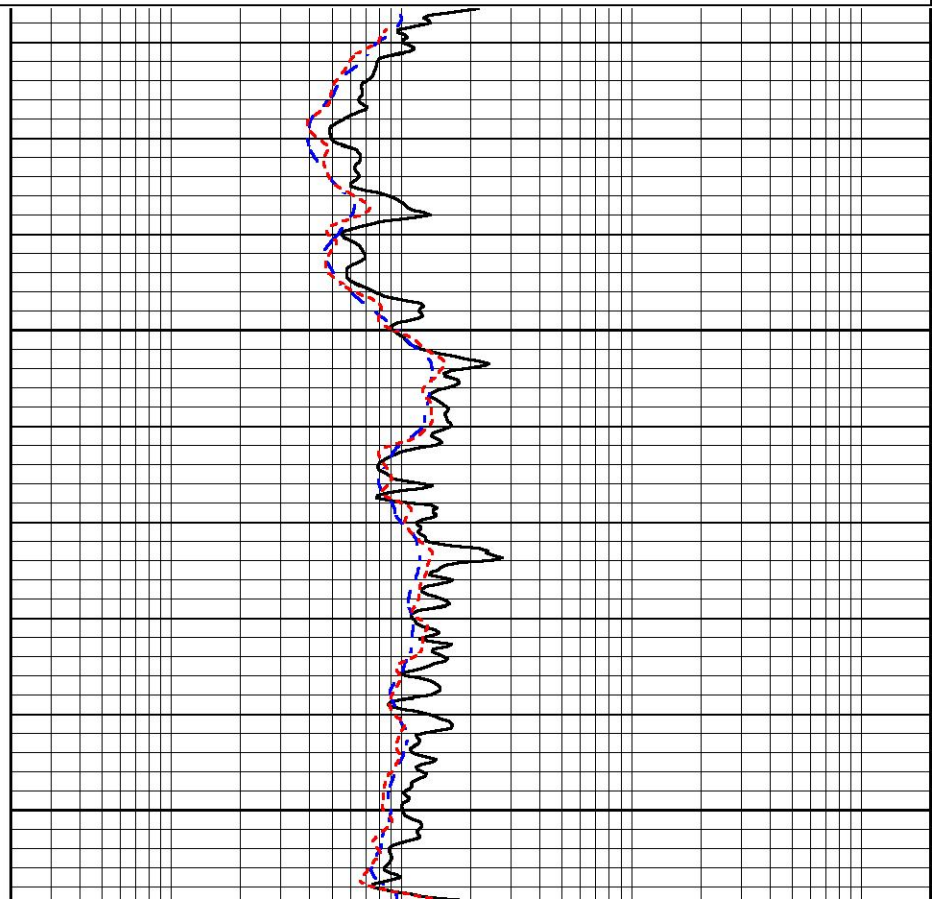
0	GAMMA RAY (GAPI)	150
-100	SP (mV)	100
-250	Rxo/Rt	50
0	MINMK	20

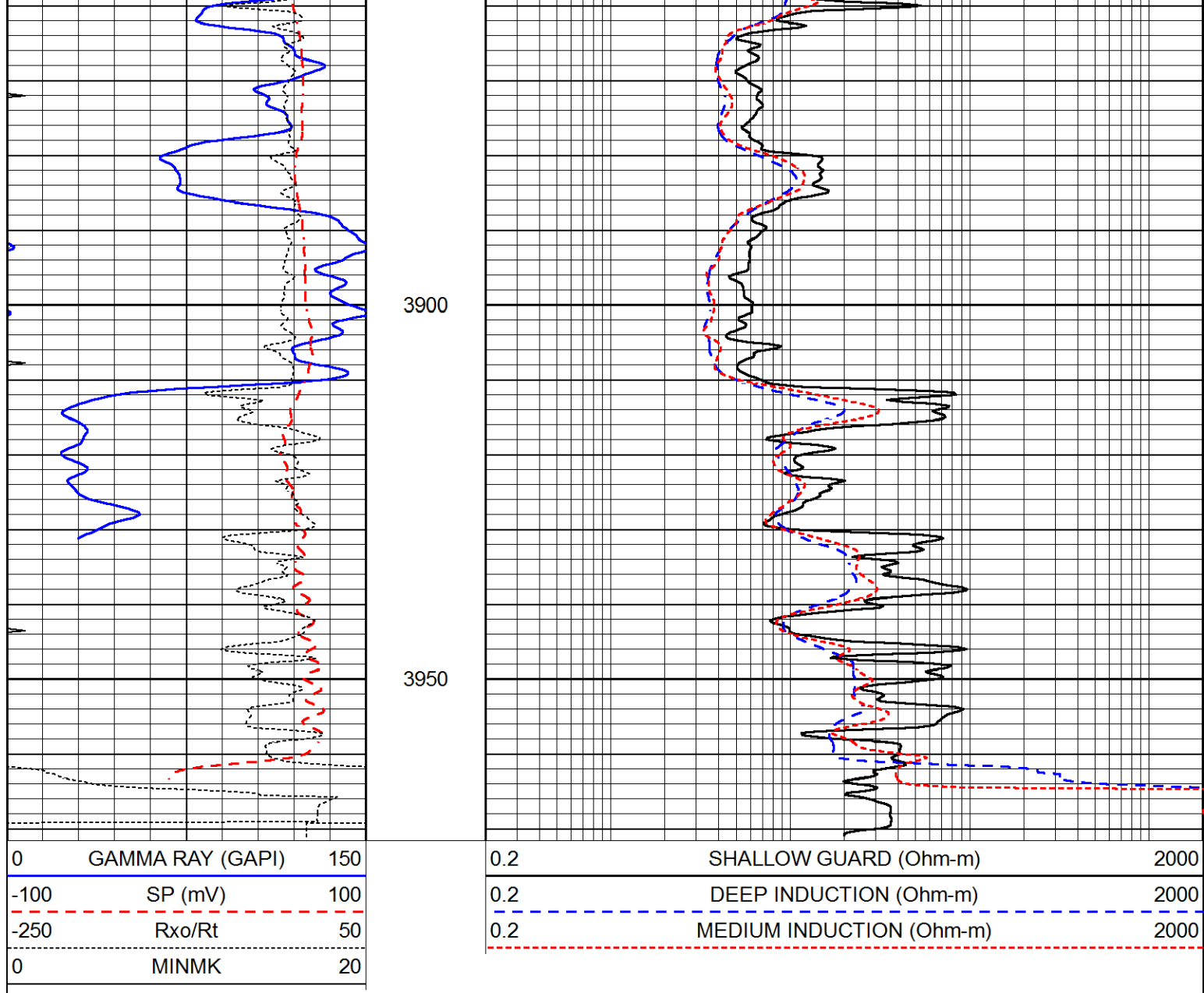
0.2	SHALLOW GUARD (Ohm-m)	2000
0.2	DEEP INDUCTION (Ohm-m)	2000
0.2	MEDIUM INDUCTION (Ohm-m)	2000



3800

3850





Calibration Report								
Database File	5612ddn.db							
Dataset Pathname	pass2RP							
Dataset Creation	Mon Aug 09 01:40:29 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					
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 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			