

DUAL INDUCTION LOG

Company		MAI OIL OPERATIONS, INC.	
Well	HAWKER#1		
Field	TRAPP		
County	RUSSELL	State	KANSAS
Location:		API # : 15-167-24102-0000 NE-SE-SW-SE 625' FSL & 1625' FEL	
Permanent Datum		GROUND LEVEL Elevation 1856	
Log Measured From		KELLY BUSHING 9' A.G.L.	
Drilling Measured From		KELLY BUSHING	
SEC 27 TWP 15S RGE 13W		Elevation K.B. 1865 D.F. 1863 G.L. 1856	
Date	07/15/20		
Run Number	ONE		
Depth Driller	3410		
Depth Logger	3410		
Bottom Logged Interval	3408		
Top Log Interval	00		
Casing Driller	8 5/8" @ 521		
Casing Logger	521		
Bit Size	7 7/8"		
Type Fluid in Hole	CHEMICAL MUD		
Density / Viscosity	9.3/41		
pH / Fluid Loss	9.0/11.2		
Source of Sample	FLOWLINE		
Rm @ Meas. Temp	.9@ 82F		
Rmf @ Meas. Temp	.68@ 82F		
Rmc @ Meas. Temp	1.08 @ 82F		
Source of Rmf / Rmc	MEASURED		
Rm @ BHT	.66@ 111F		
Time Circulation Stopped	2 HOURS		
Time Logger on Bottom	////		
Maximum Recorded Temperature	111F		
Equipment Number	1523		
Location	HAYS, KANSAS		
Recorded By	GUS PFANENSTIEL		
Witnessed By	JIM MUSGROVE		

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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

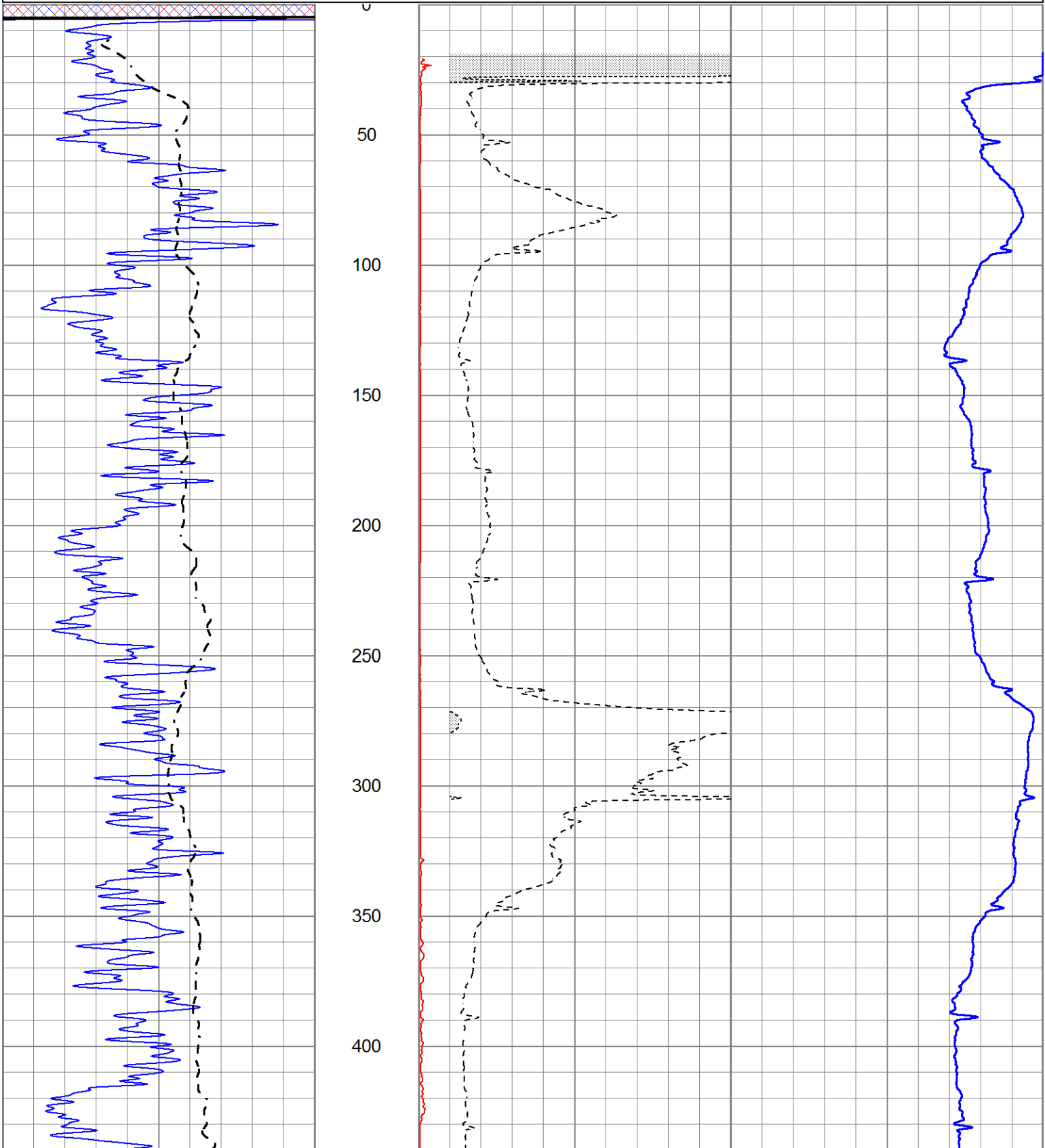
DIRECTIONS:RUSSELL SOUTH TO MICHAELIS RD., 5 EAST NORTH INTO.

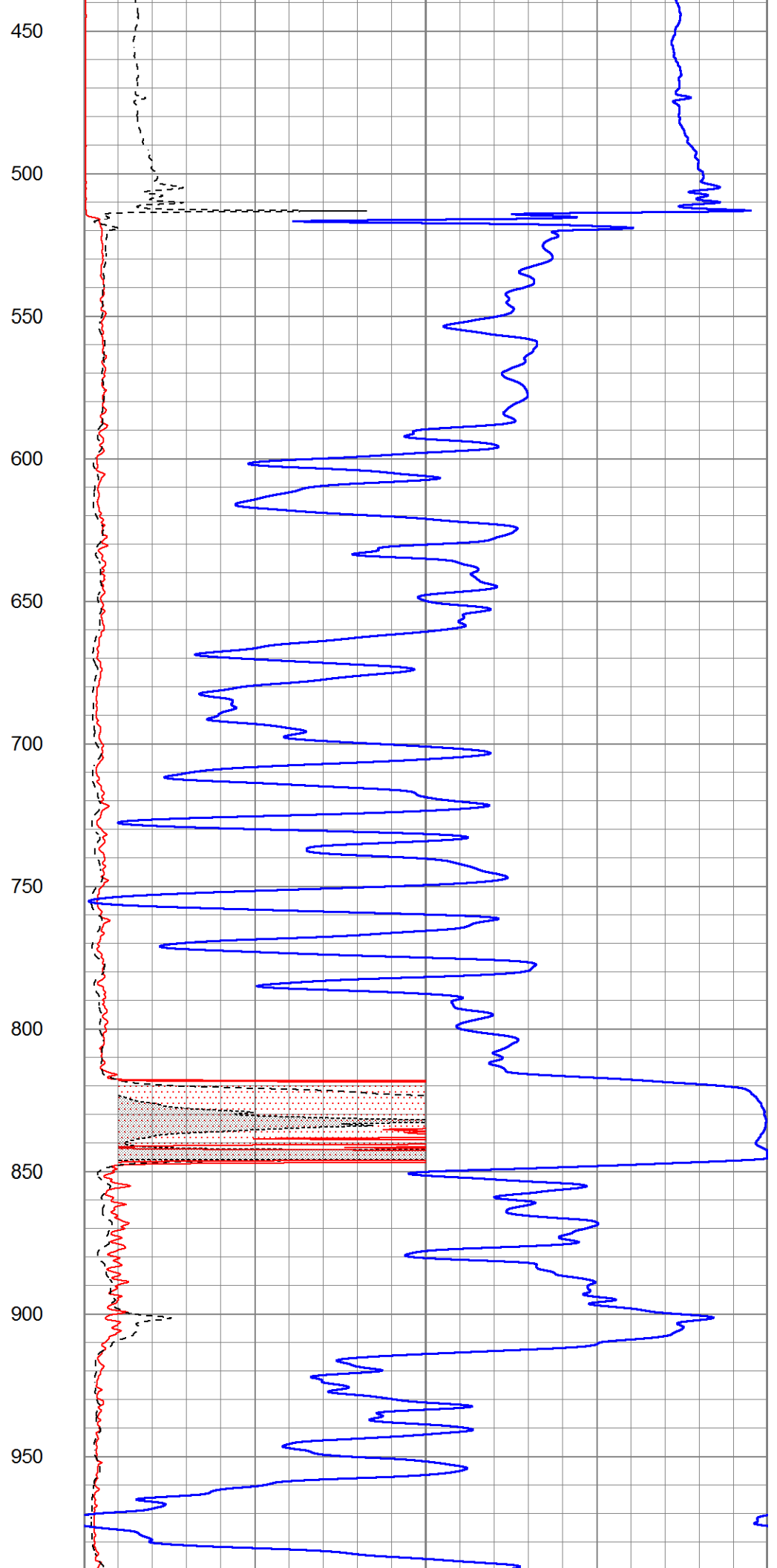
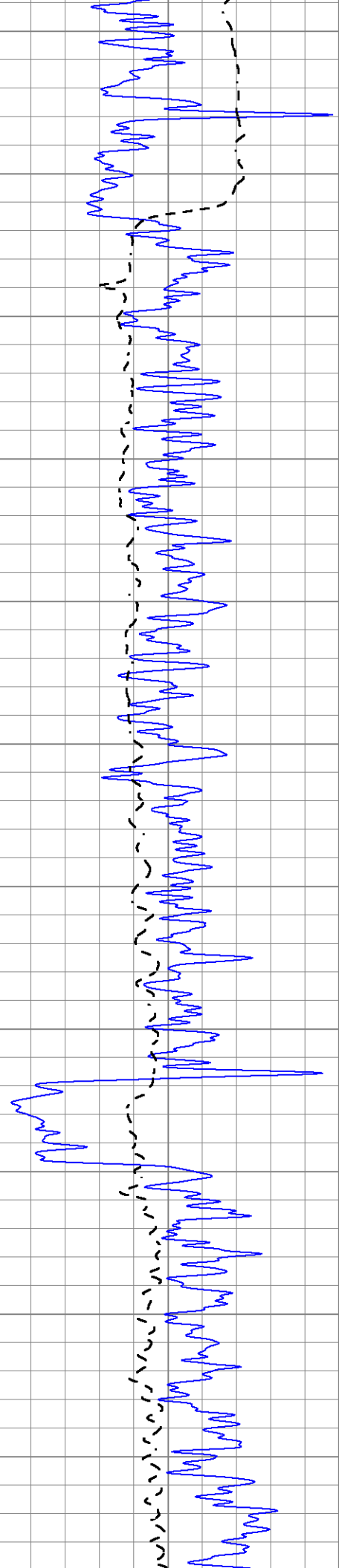


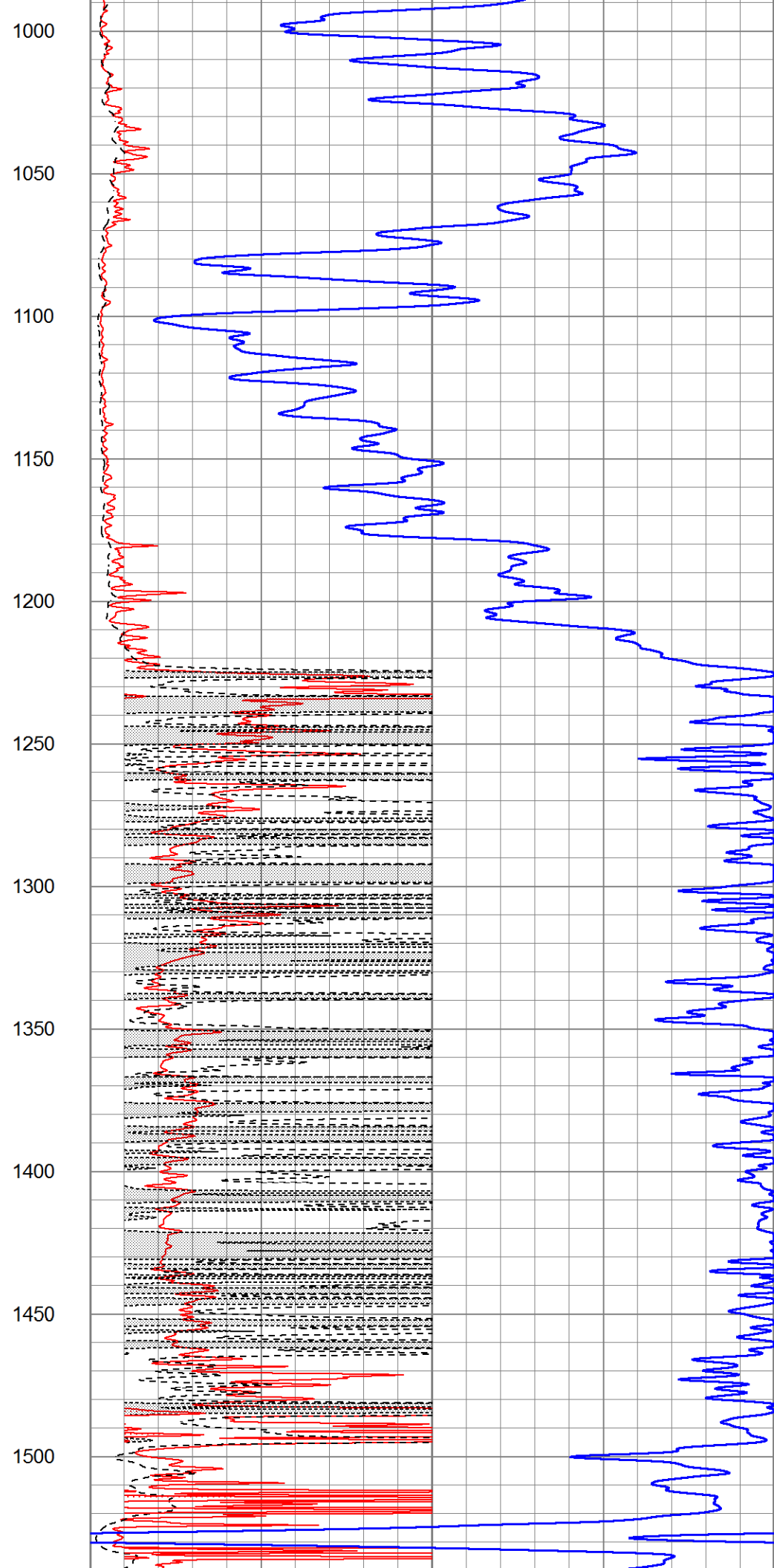
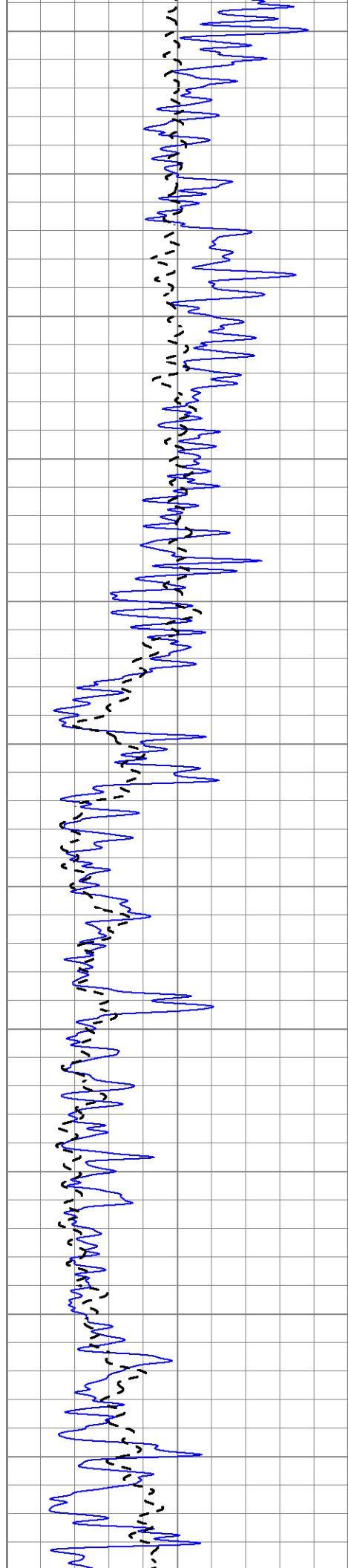
MAIN PASS

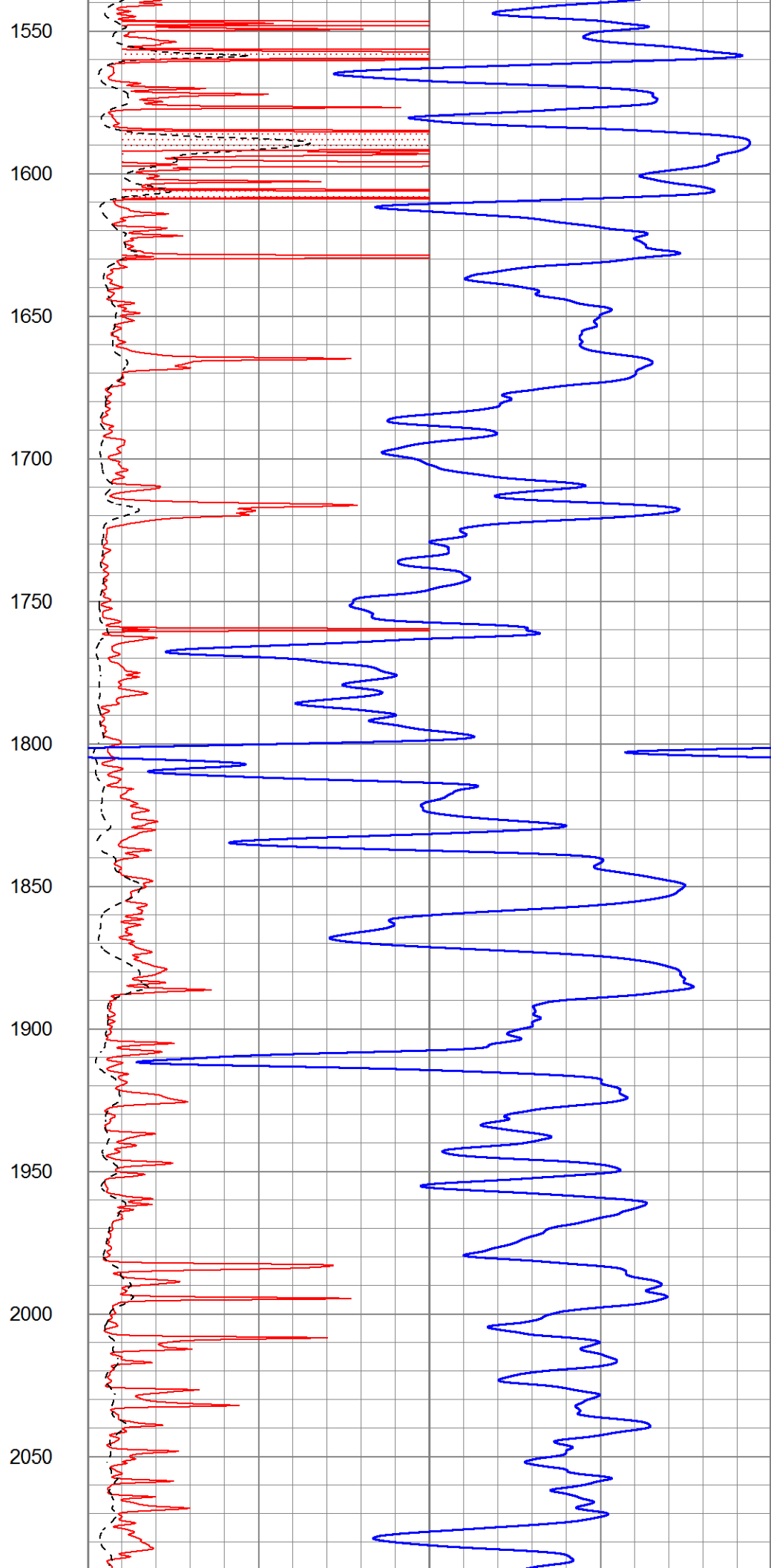
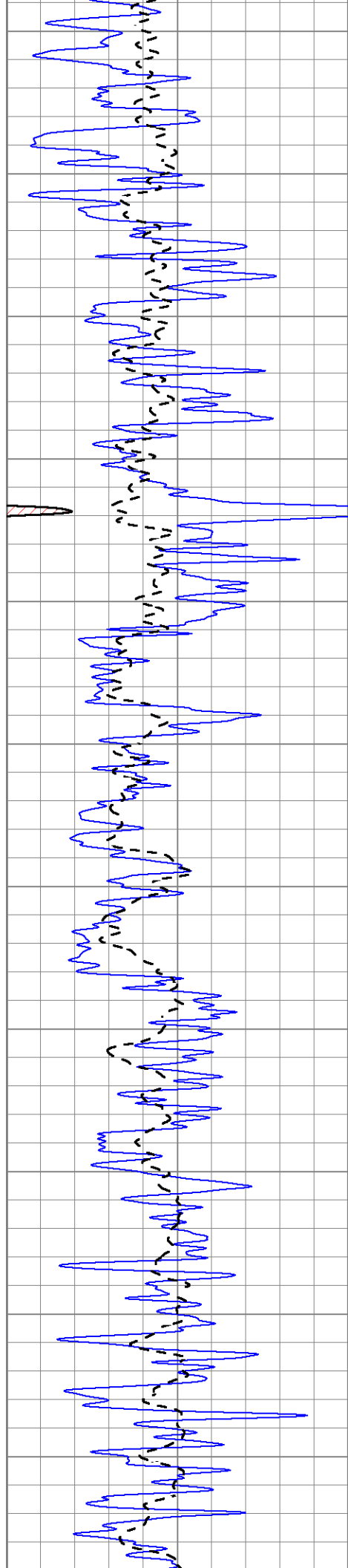
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Dataset Pathname	pass3.1
Presentation Format	_dil2
Dataset Creation	Wed Jul 15 14:54:20 2020
Charted by	Depth in Feet scaled 1:600

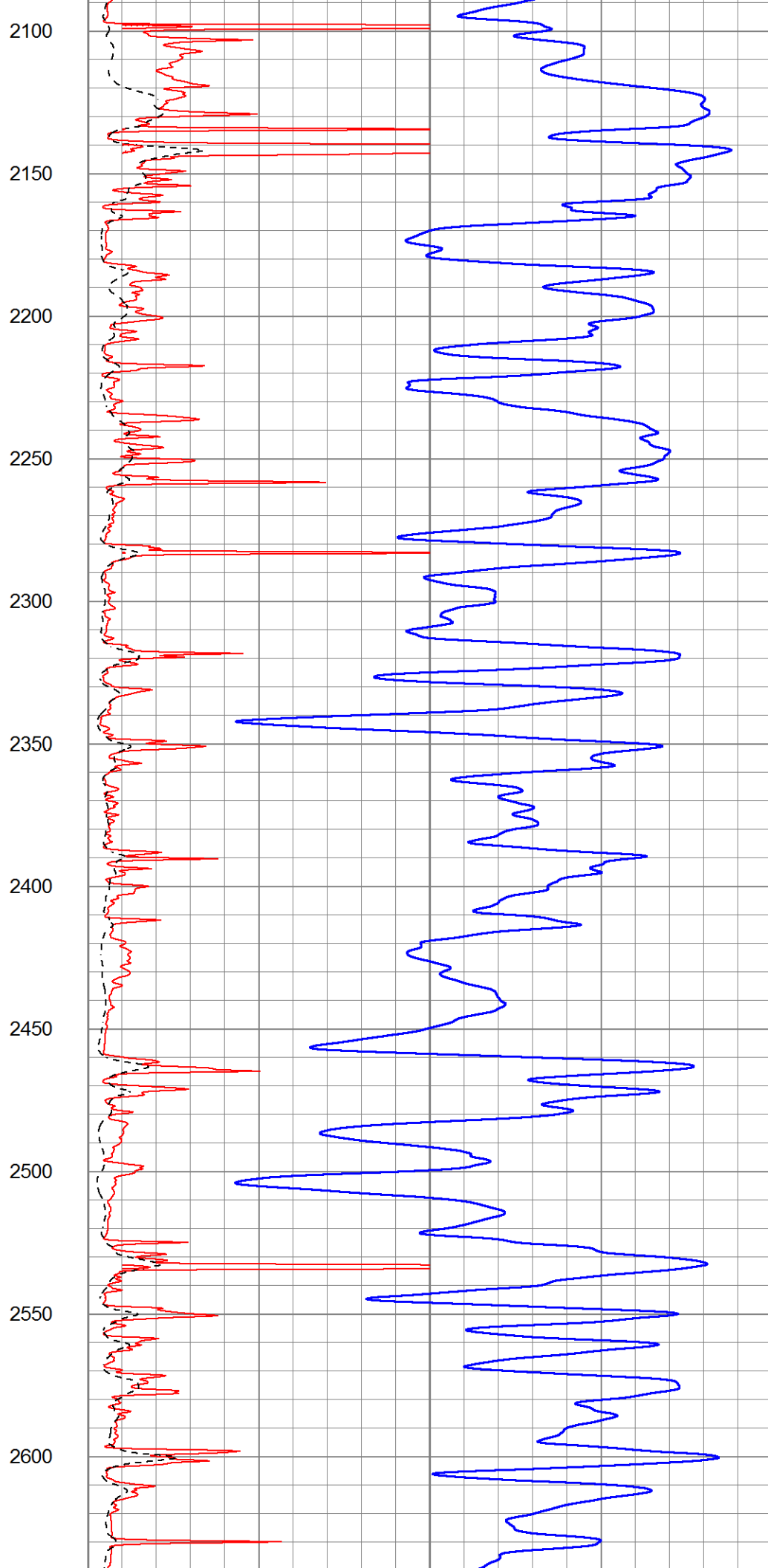
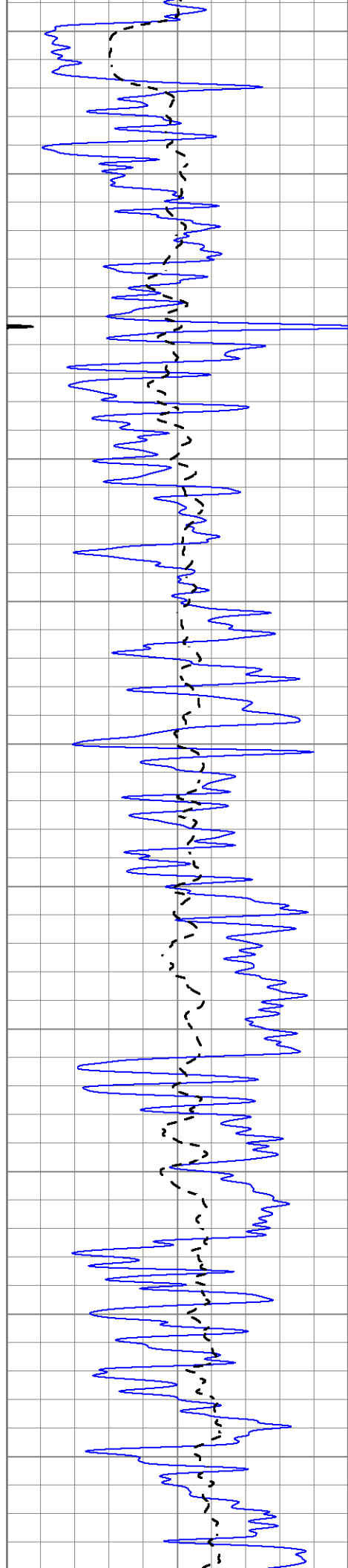
0	Gamma Ray (GAPI)	150	1000	CILD (mmho/m)	0
-100	SP (mV)	100	0	RLL3 (Ohm-m)	50
-----			0	RILD (Ohm-m)	50
			50	RILD X10 (Ohm-m)	500
			50	RLL3 X10 (Ohm-m)	500

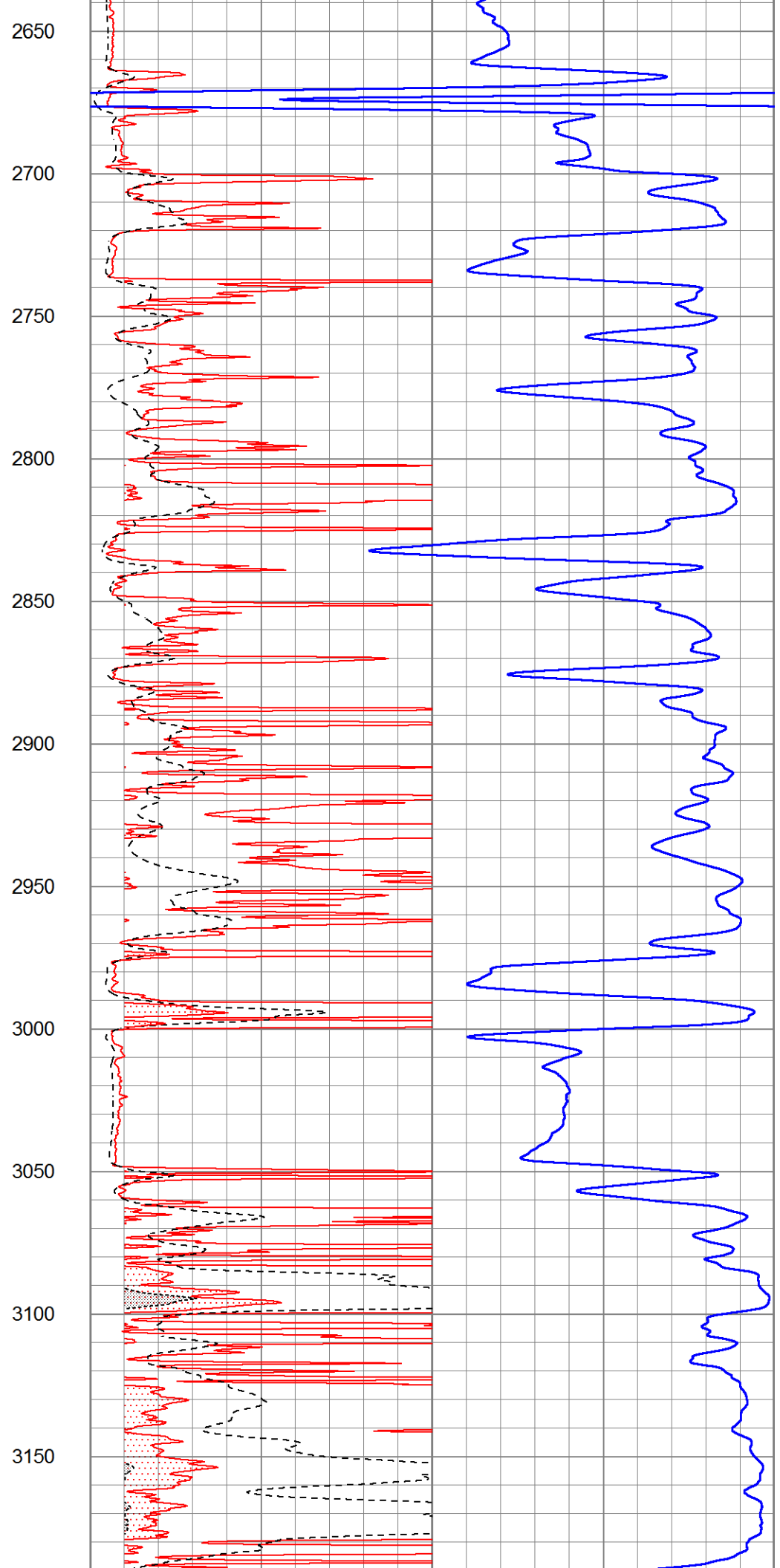
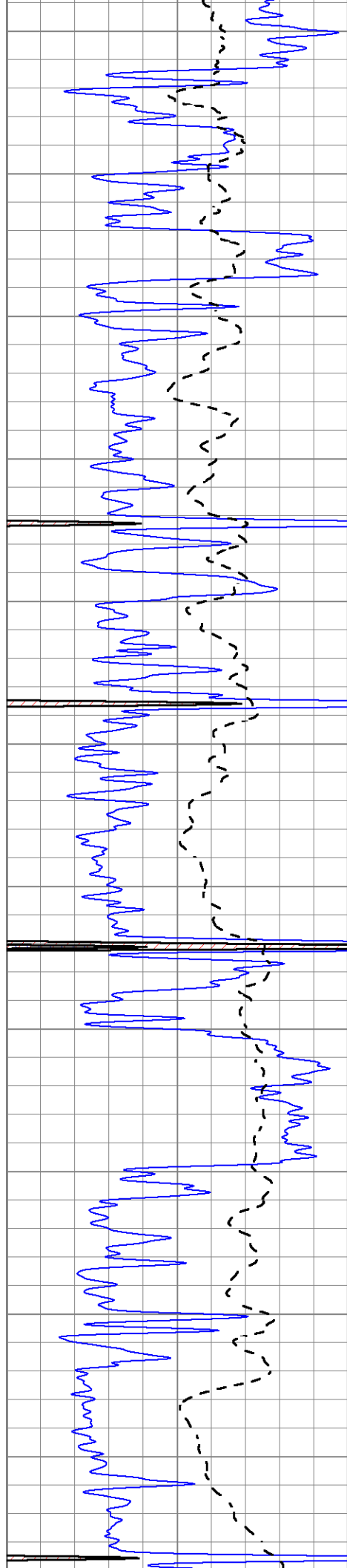


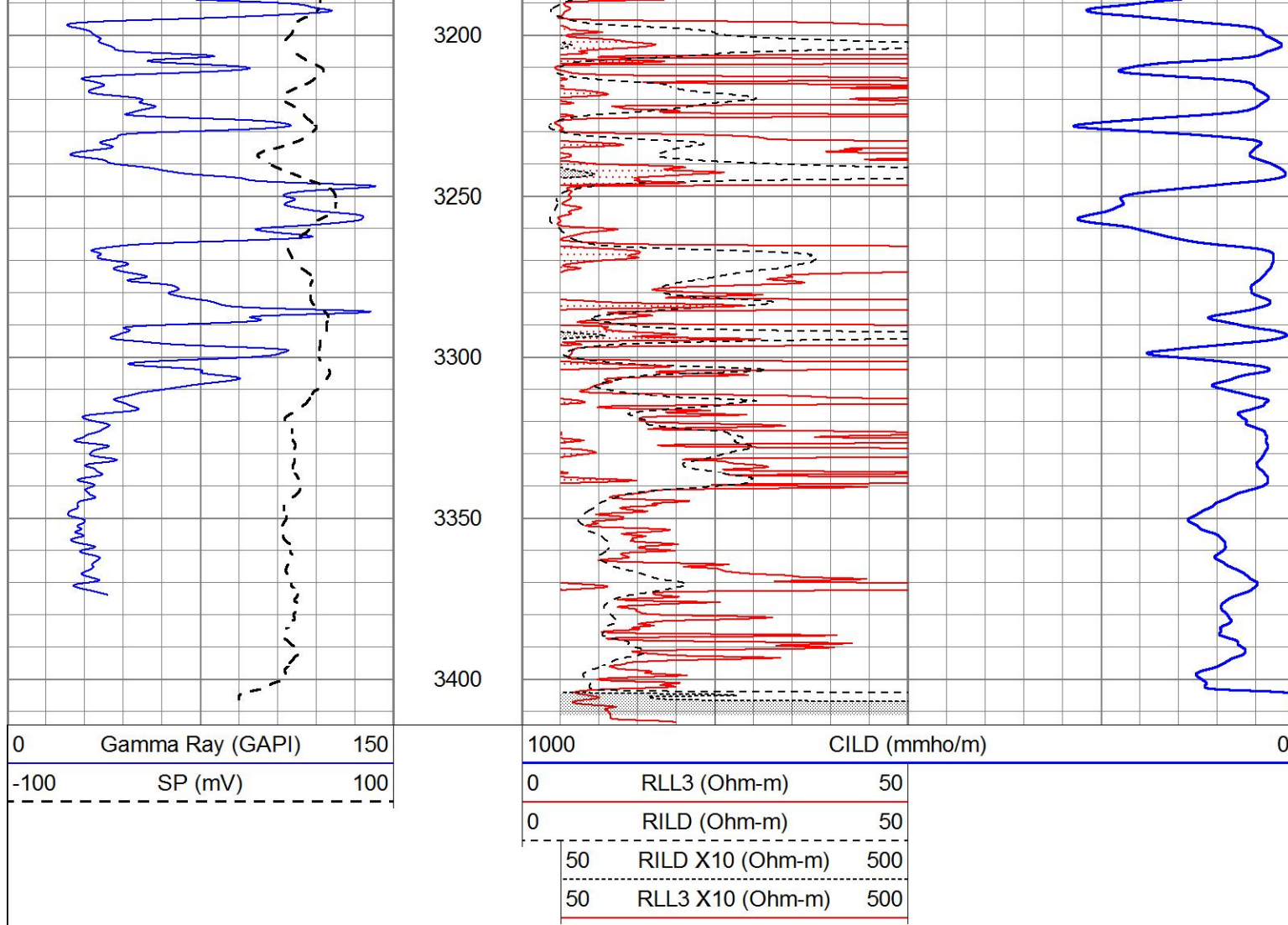








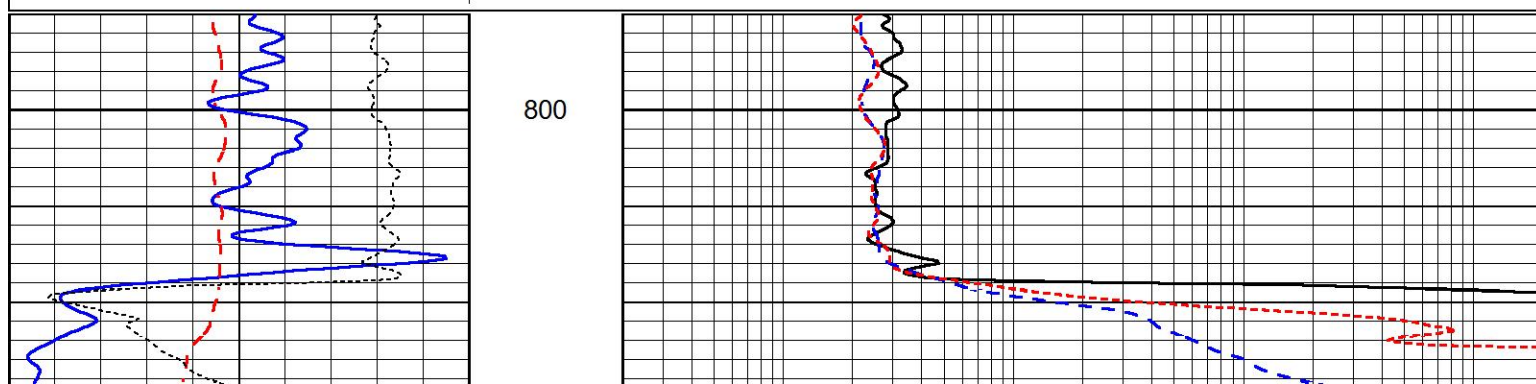


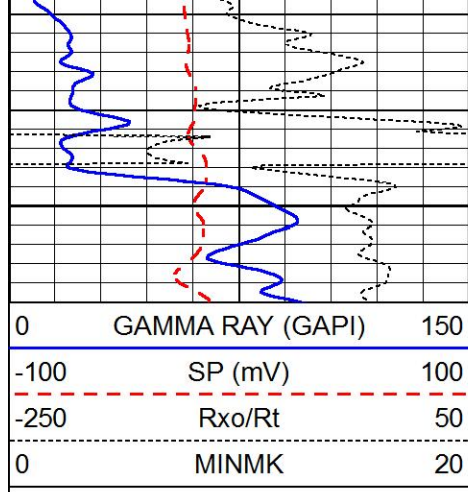


MAIN PASS

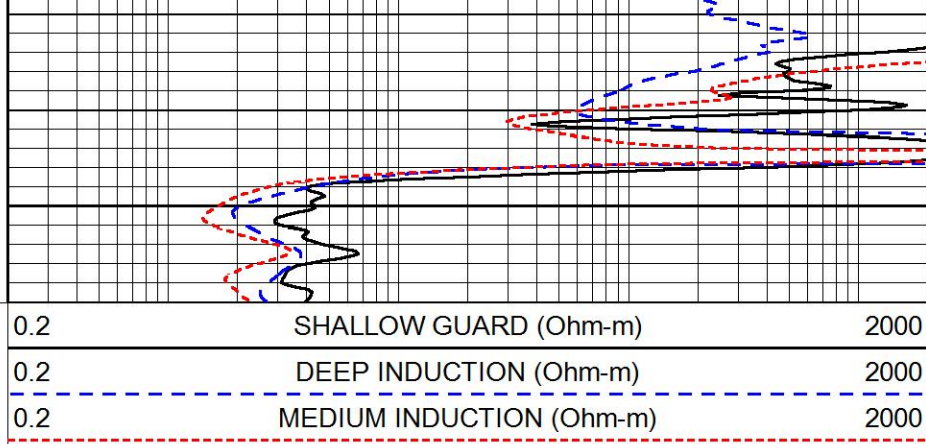
Database File 4695ddn.db
 Dataset Pathname pass3.1
 Presentation Format _dil
 Dataset Creation Wed Jul 15 14:54:20 2020
 Charted by Depth in Feet scaled 1:240

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			



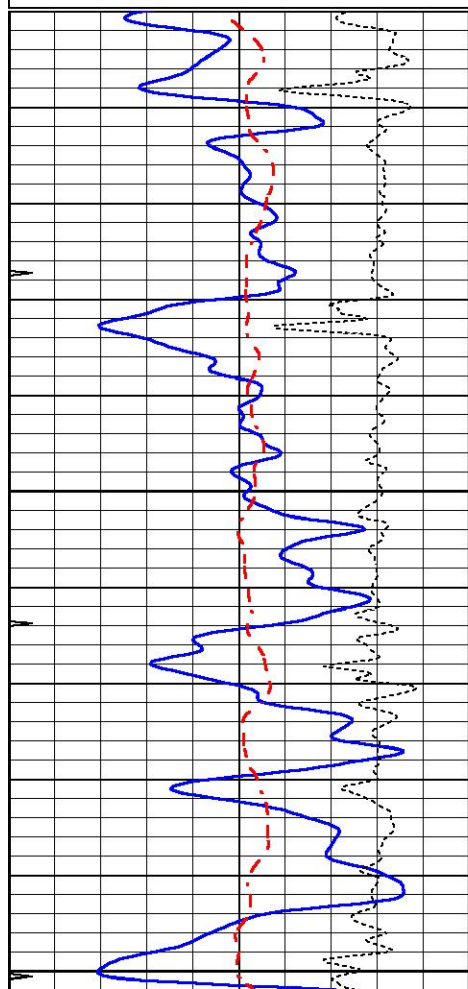
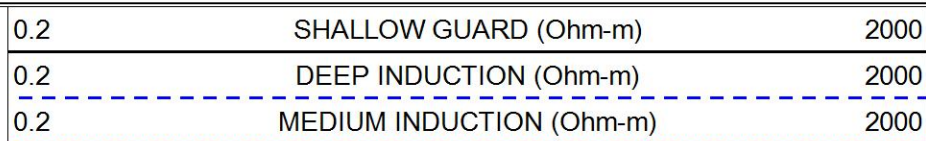
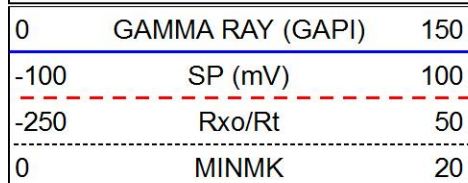


850



MAIN PASS

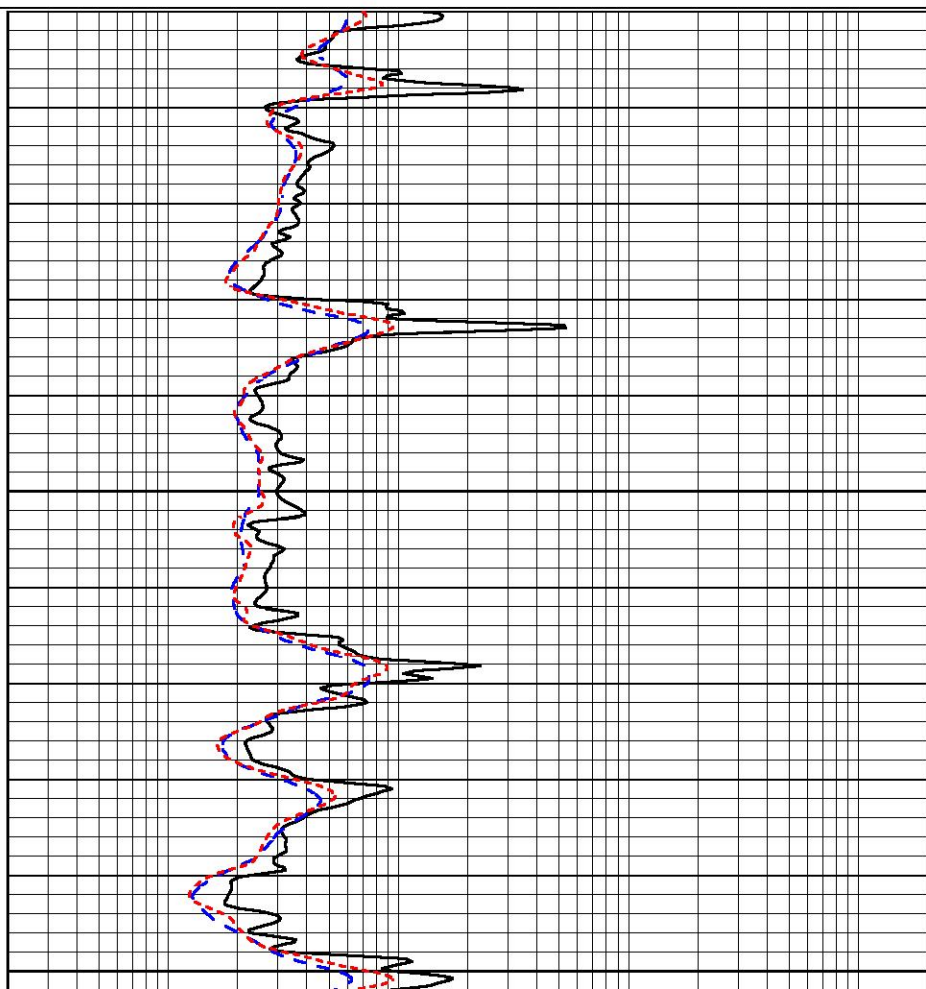
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 Charted by Depth in Feet scaled 1:240

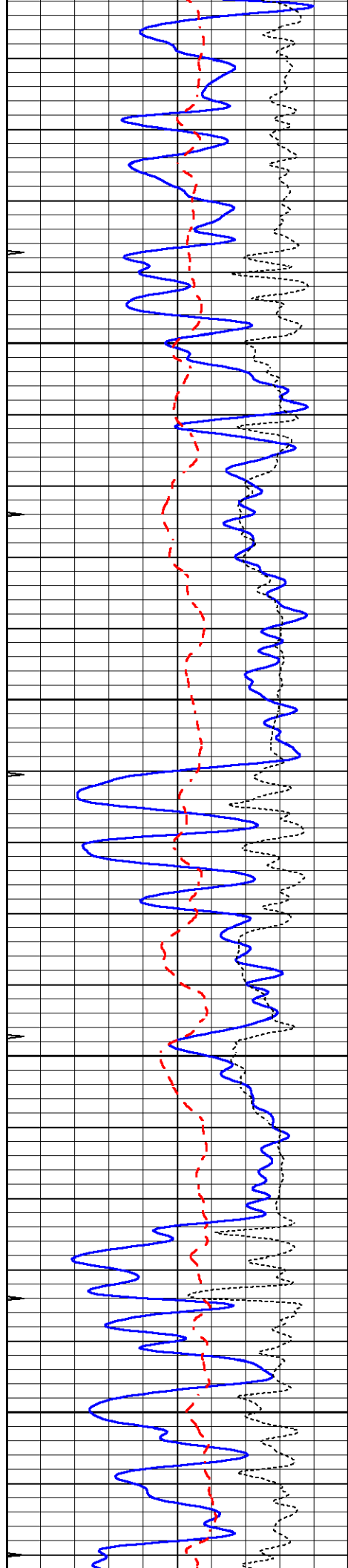


2250

2300

2350



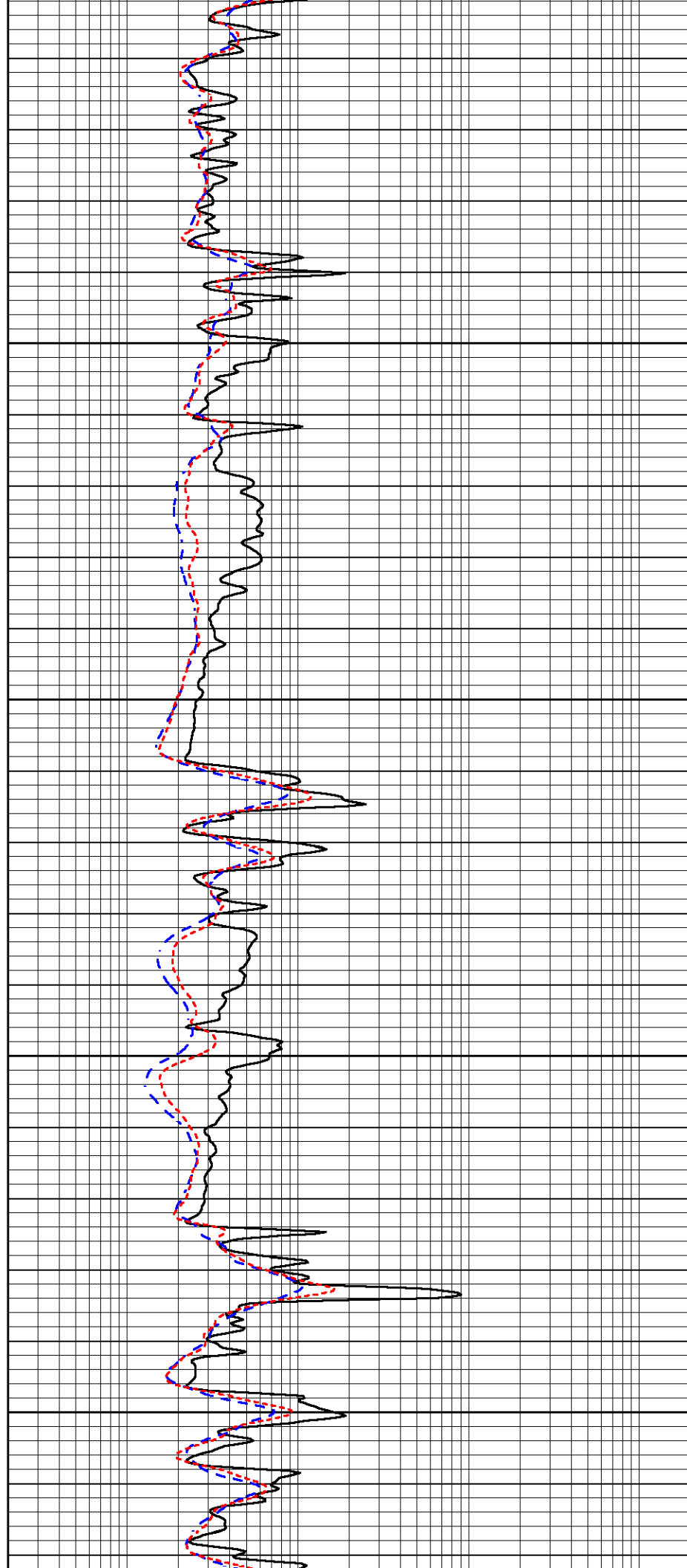


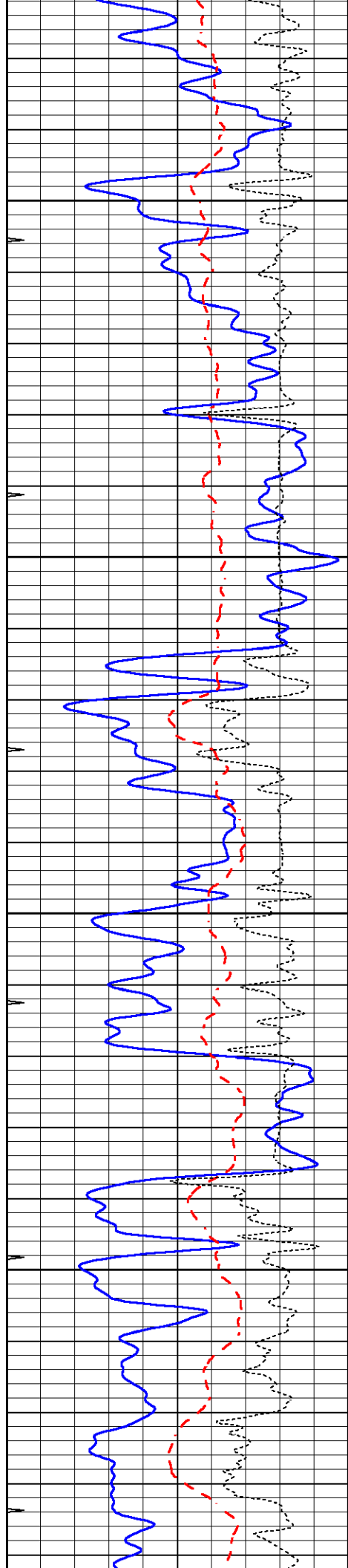
2400

2450

2500

2550



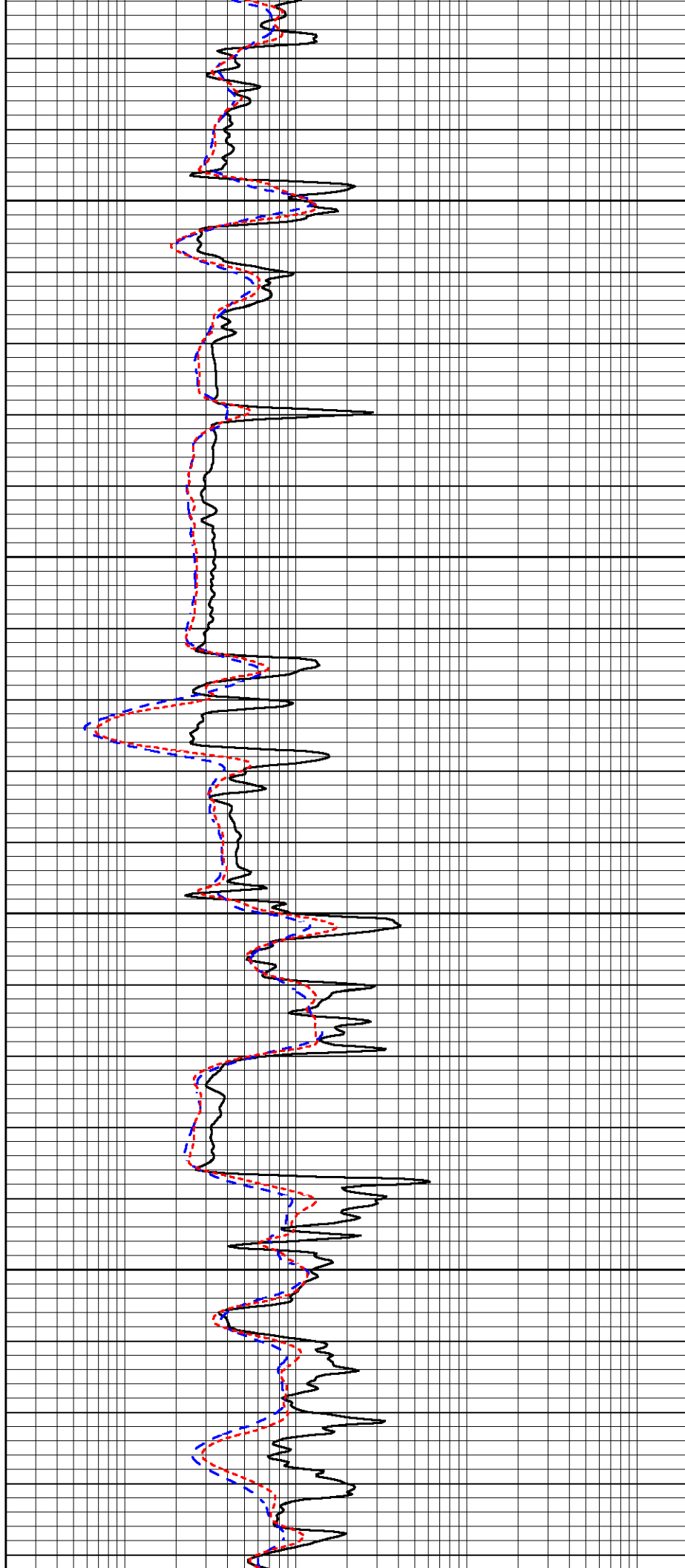


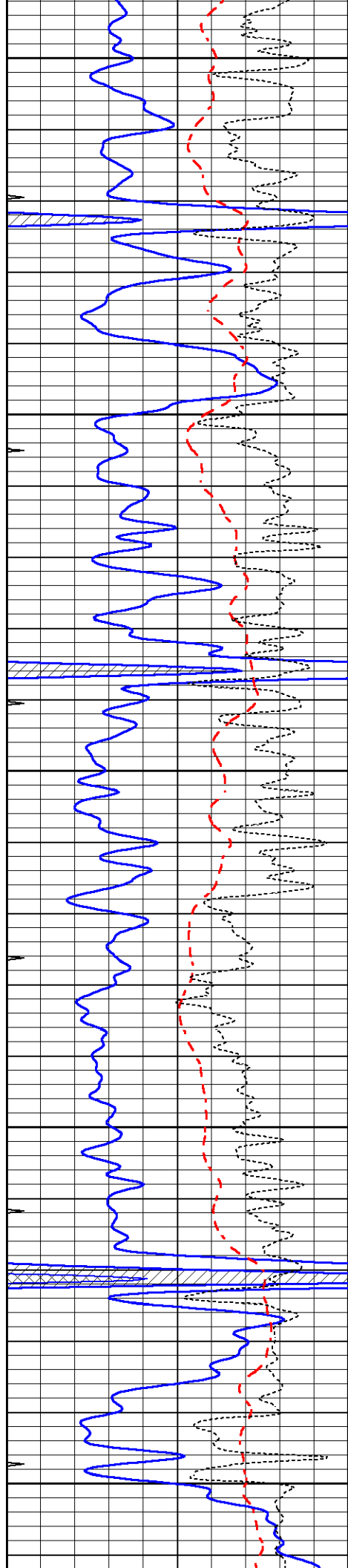
2600

2650

2700

2750





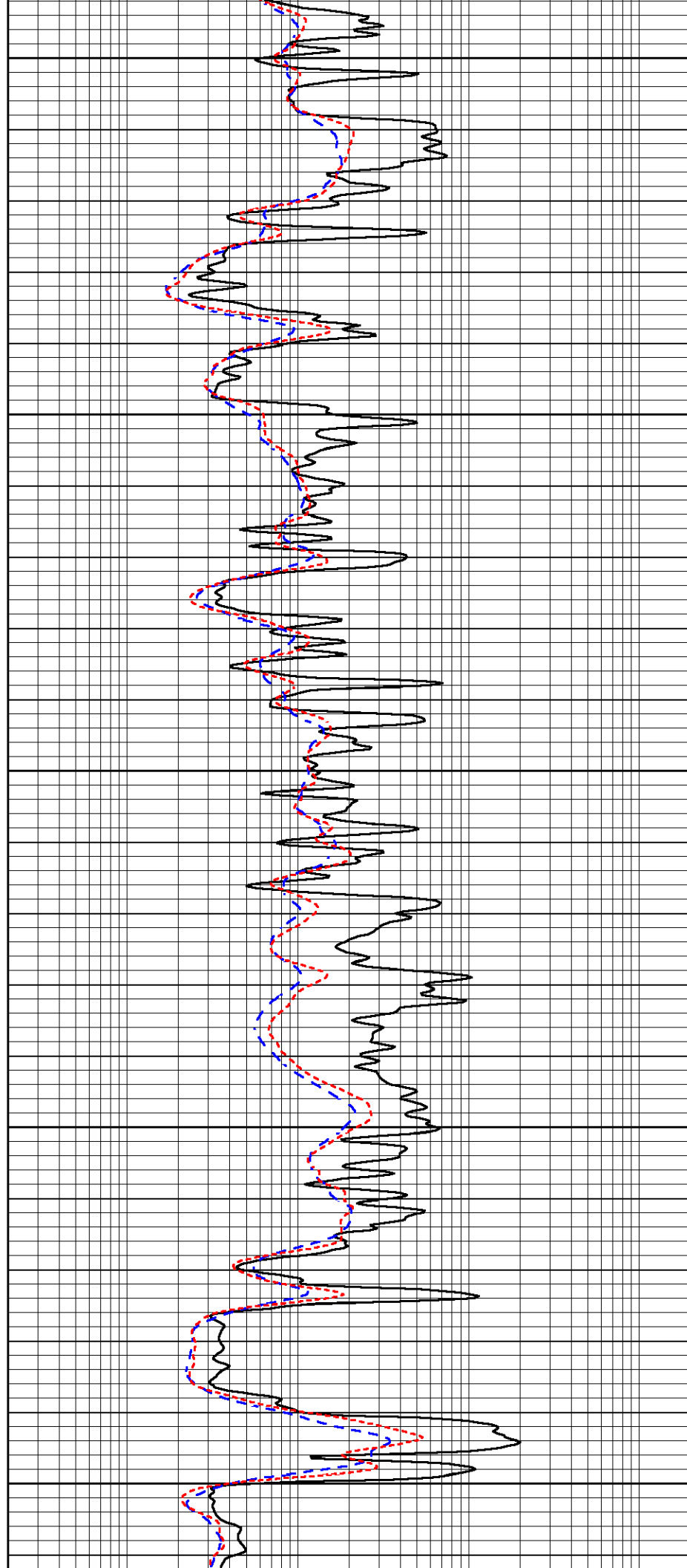
2800

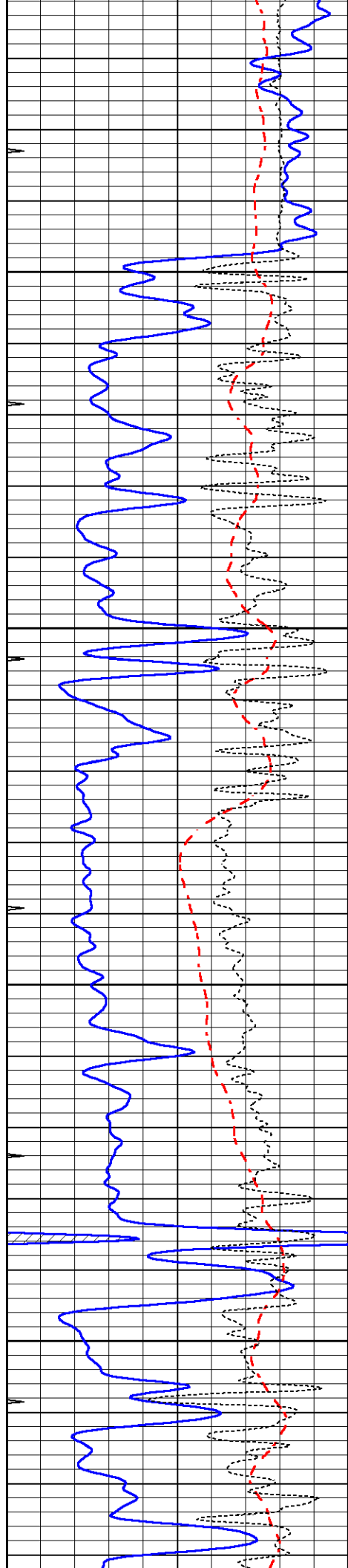
2850

2900

2950

3000



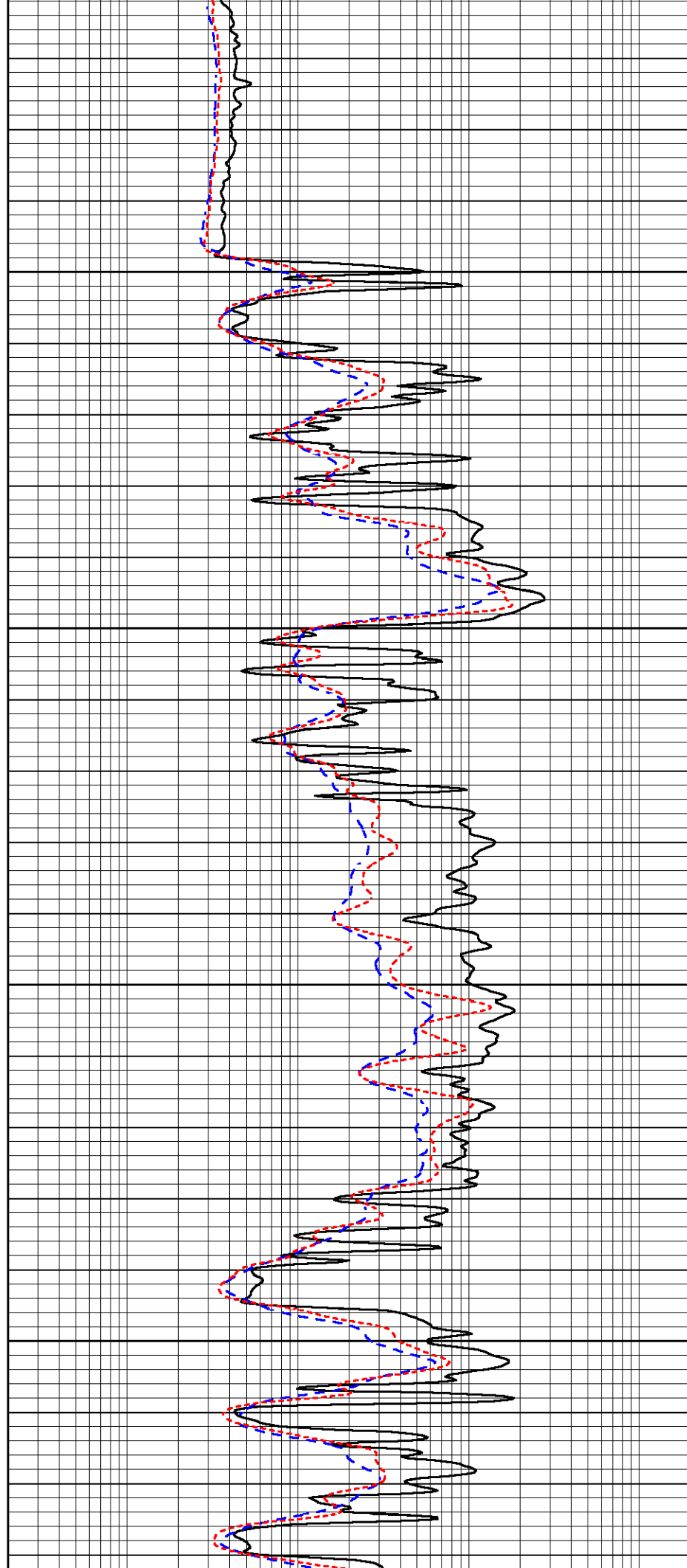


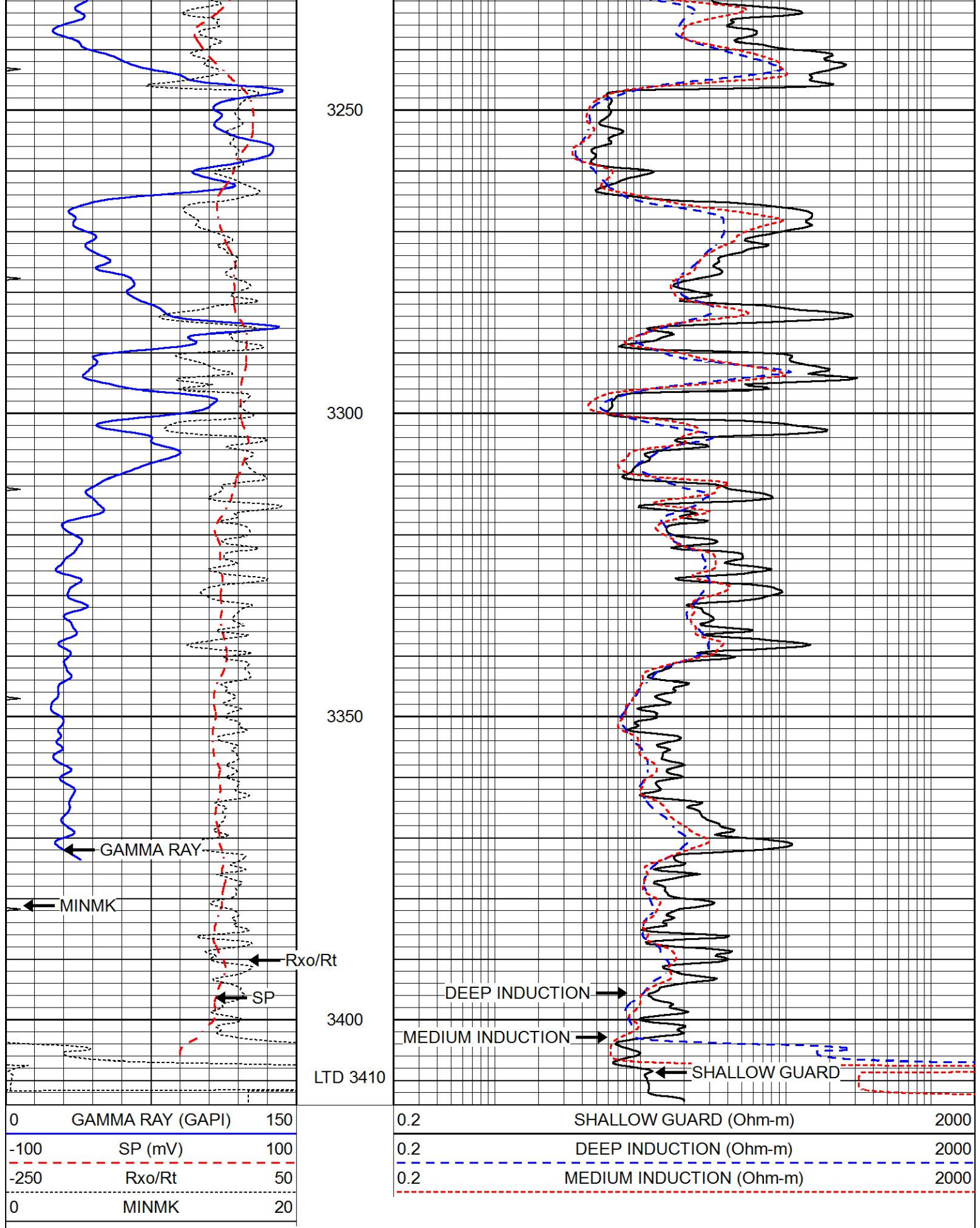
3050

3100

3150

3200





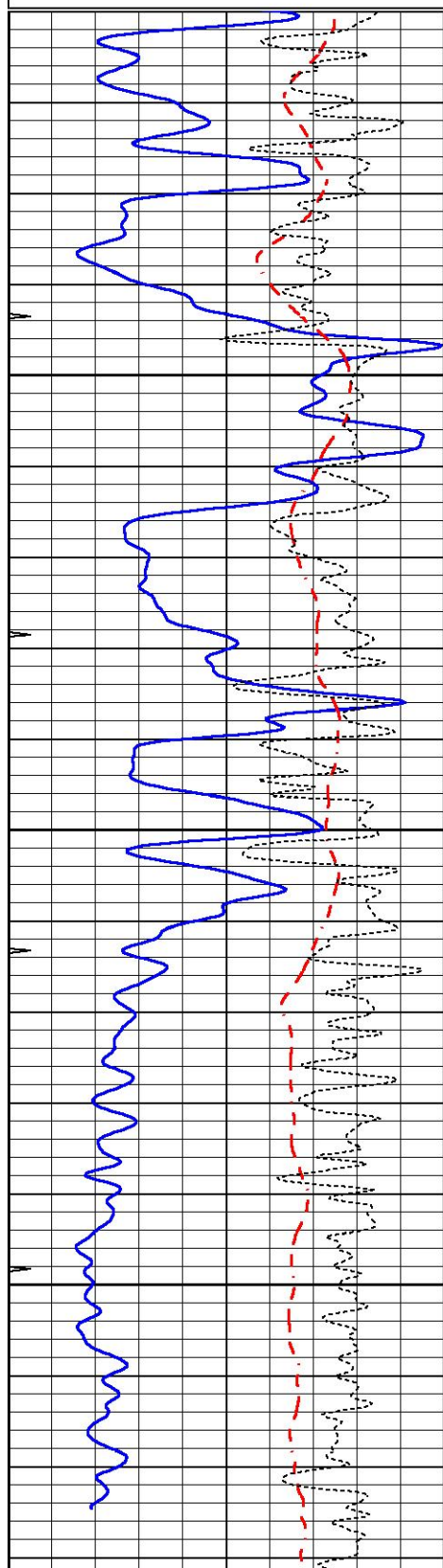
REPEAT SECTION

REF LAY SECTION

Database File 4695ddn.db
Dataset Pathname pass2RP.1
Presentation Format _dil
Dataset Creation Wed Jul 15 14:35:00 2020
Charted by Depth in Feet scaled 1:240

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

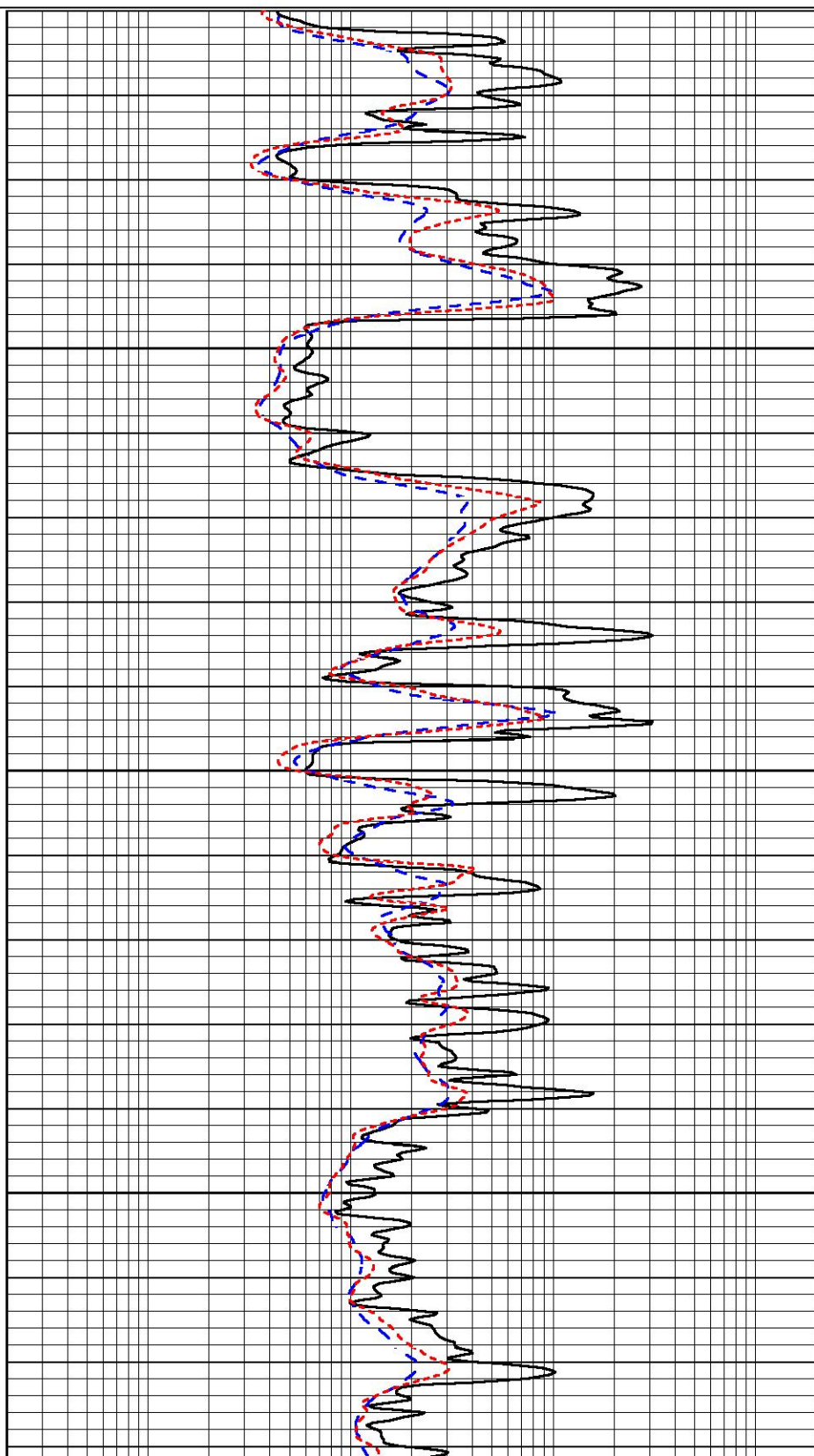
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0.2	DEEP INDUCTION (Ohm-m)	2000
0.2	MEDIUM INDUCTION (Ohm-m)	2000

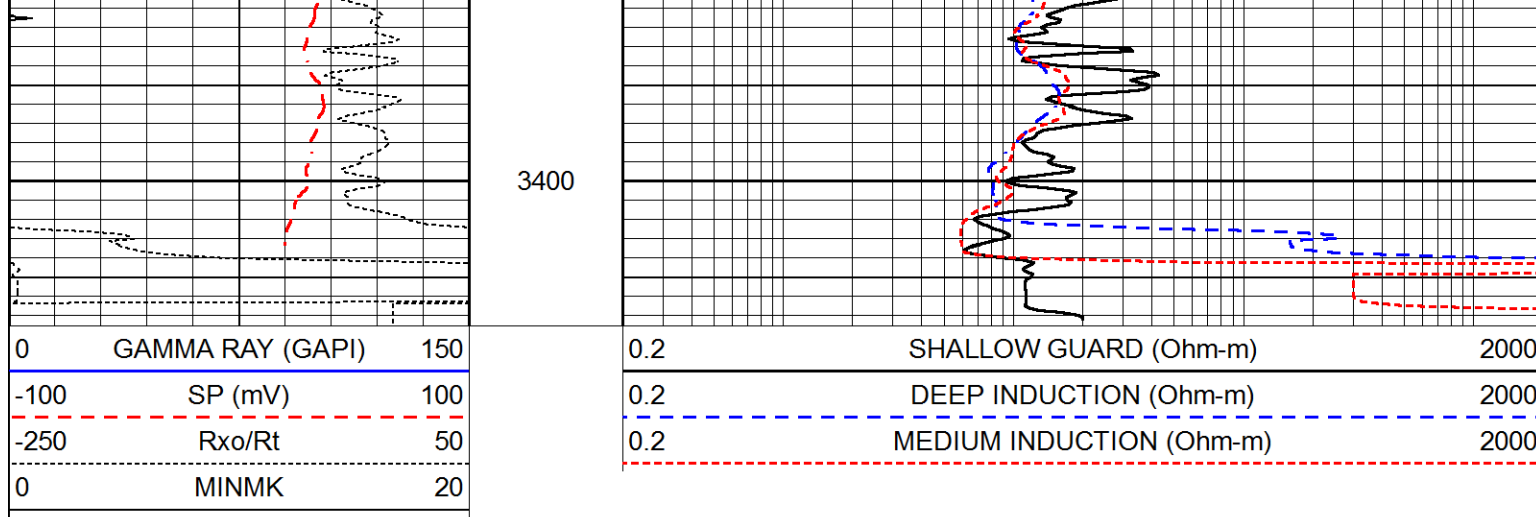


3250

3300

3350





Calibration Report									
Database File	4695ddn.db								
Dataset Pathname	pass2RP.1								
Dataset Creation	Wed Jul 15 14:35:00 2020								
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			

Master Calibration		Performed Tue Mar 10 15:08:00 2020			
	Background	Magnesium	Aluminum	Aluminum+Fe	
Window 1	780.1	6981.9	2088.6	1871.2	cps
Window 2	718.6	5898.2	1813.8	1664.1	cps
Window 3	580.0	2989.5	1088.0	1039.1	cps
Window 4	172.8	175.7	175.3	173.5	cps
Long Space	0.0	5179.6	1095.2	945.5	cps
Short Space	1.1	1228.6	821.2	690.4	cps
Rho		1.7100	2.5900	0.0000	g/cc
Pe		2.0000	2.7500	5.7900	
Rib Angle	: 45.5	Rib Slope	: 1.016	Density/Spine Ratio	: 0.548
Spine Angle	: 75.5	Spine Slope	: 3.857	Spine Intercept	: -18.9

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	

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Compensated Neutron Calibration Report
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Serial Number:	6I
Tool Model:	G

CALIBRATION					
	Detector	Readings		Target	Normalization
	Short Space	1.00	cps	1.00	1.0000
	Long Space	1.00	cps	1.00	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:	Wed Jul 03 12:57:34 2019	
	Calibrator Value:	150.0	GAPI
	Background Reading:	0.0	cps
	Calibrator Reading:	276.0	cps
	Sensitivity:	0.8500	GAPI/cps