MIDWEST WIRELINE

DUAL INDUCTION LOG

Company Castle Resources Inc
Well Shields 1
Field Lindsborg
County McPherson State Kansas

Location: API #: 15-113-21413-00-00
330 FNL & 2310 FEL
SEC 19 TWP 17S RGE 3W

Other Services
CNL/CDL
MEL

Elevation
K.B. 1341
D.F.
G.L. 1336

Permanent Datum Ground Level Elevation 1336
Log Measured From Kelly Bushing
Drilling Measured From Kelly Bushing

Date	8/20/2024			
Run Number	One			
Depth Driller	3570			
Depth Logger	3569			
Bottom Logged Interval	3568			
Top Log Interval	300			
Casing Driller	8.625 @ 360			
Casing Logger	338			
Bit Size	7.875			
Type Fluid in Hole	Chemical			
Salinity,ppm CL	4000			
Density / Viscosity	9.3 | 44			
pH / Fluid Loss	9.0 | 14.4			
Source of Sample	FLOWLINE			
Rm @ Meas. Temp	.80 @ 76			
Rmf @ Meas. Temp	.60 @ 76			
Rmc @ Meas. Temp	1.08 @ 76			
Source of Rmf / Rmc	CHARTS			
Rm @ BHT	.54 @ 112			
Operating Rig Time	2 Hours			
Max Rec. Temp. F	112			
Equipment Number	110			
Location	HAYS			
Recorded By	J. Henrickson			
Witnessed By	Jerry Green			

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Comments

N/A DENOTES NOT AVAILABLE OR NON-APPLICABLE.

Lindsborg Kansas
1 East on Hwy 4 to Buffalo Trail, 1/2 South,
West and North Into

Log Measured From: Kelly Bushing 5 Ft. Above Permanent Datum

THANK YOU FOR USING MIDWEST WIRELINE LLC
785-625-3858

Your Midwest Wireline Crew	This Log Record Was Witnessed By
Engineer: J. Henrickson	Primary Witness: Jerry Green
Operator:	Secondary Witness:
Operator:	Secondary Witness:
Operator:	Secondary Witness:

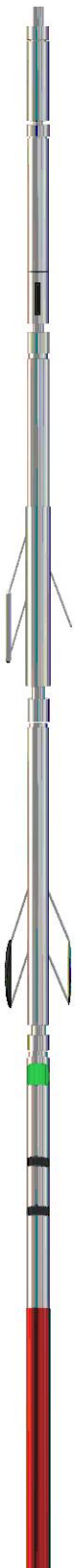
Log Variables

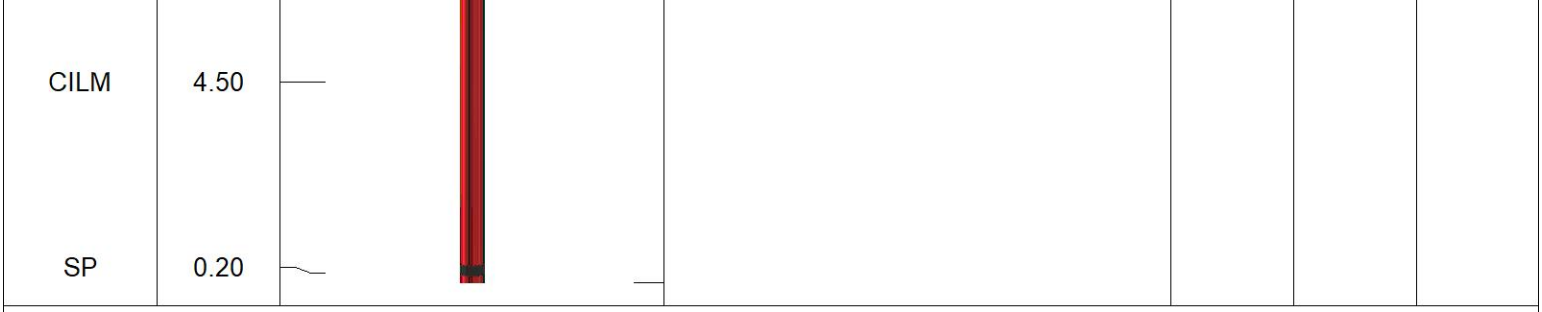
DatabaseC:\ProgramData\Warrior\Data\castle_shields_1.db
Dataset field/well/stackml/pass3.1/_vars_

Top - Bottom

A	BOREID in	BOTTEMP degF	CASEOD in	CASETHCK in	FLUIDDEN g/cc	M	MATRXDEN g/cc
1	7.875	112	5.5	0	1	2	2.71

NPORSEL	PERFS	SNDERR mmho/m	SNDERRM mmho/m	SPSHIFT mV	SRFTEMP degF	SZCOR	TDEPTH ft
Limestone	No	6	2	116	73	Off	3570

Sensor	Offset (ft)	Schematic	Description	Length (ft)	O.D. (in)	Weight (lb
GR	40.33		GR-M&W (105)	3.00	3.50	50.00
CNLSC	37.23		CNT-M&W (210)	5.00	3.50	100.00
CNSSC	36.48					
			CDL-M&W (303-03)	8.50	4.00	250.00
LSD	28.18					
DCAL	28.17					
SSD	27.68					
			ML-PSI STKBL ML (402)	7.58	4.00	65.00
MCAL	19.58					
MI	19.58					
MN	19.58					
RLL3F	15.50					
RLL3	15.50					
			DIL-M&W (506)	18.25	3.50	220.00
CILD	8.33					



Dataset: castle_shields_1.db: field/well/stackml/pass3.1
Total length: 42.33 ft
Total weight: 685.00 lb
O.D.: 4.00 in

MIDWEST WIRELINE

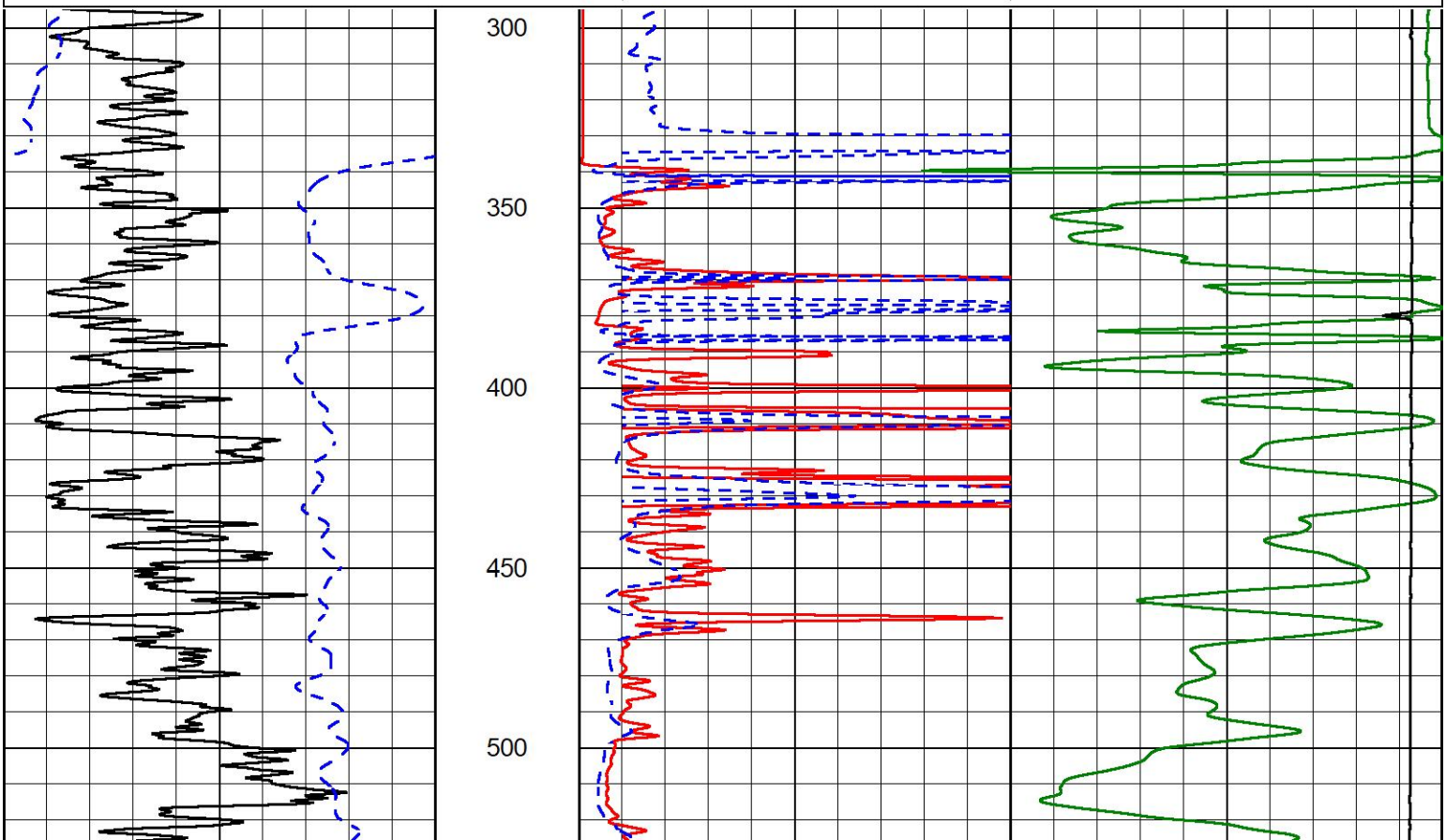
2" SCALE RESISTIVITY

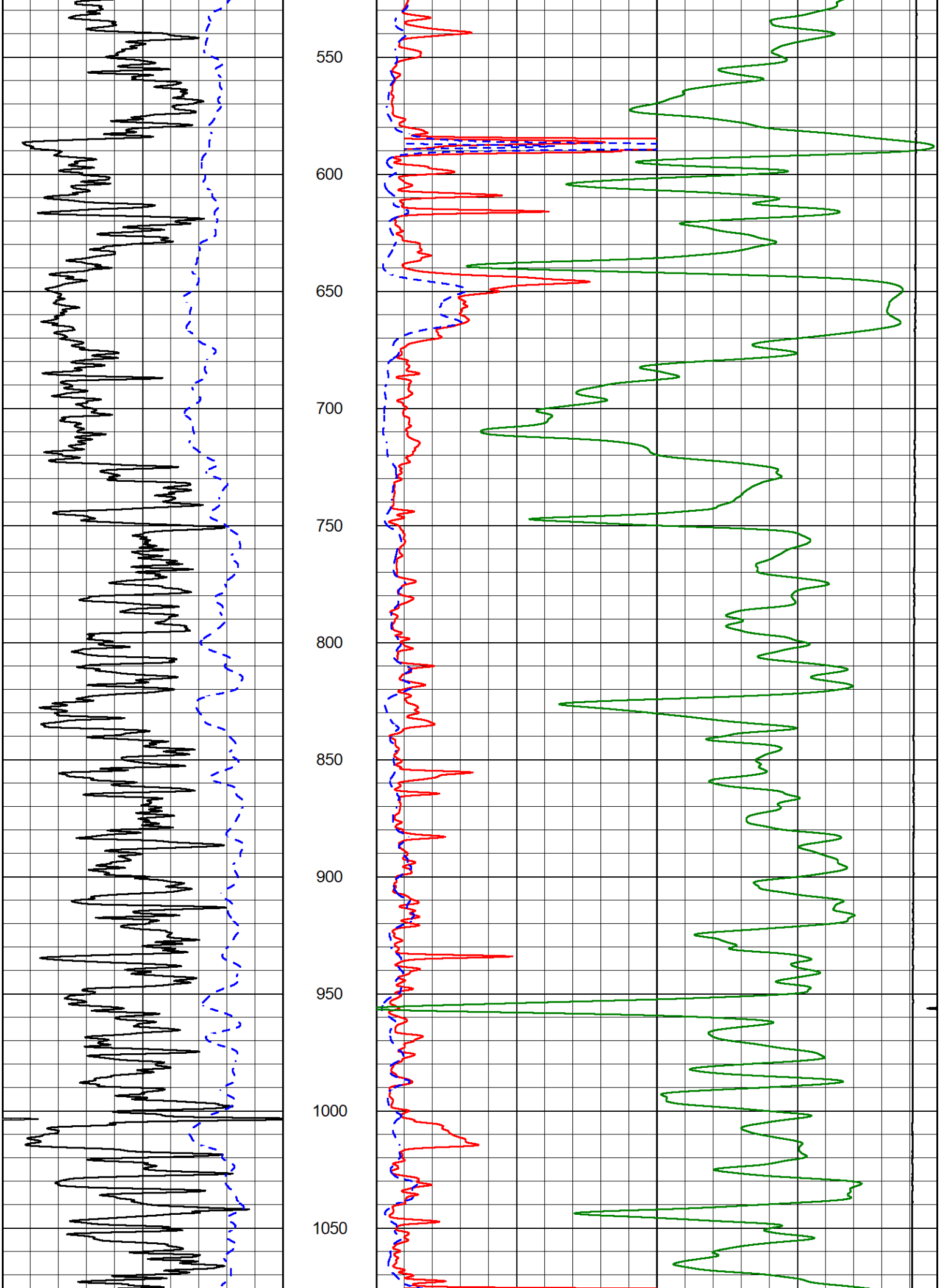
MAIN PASS

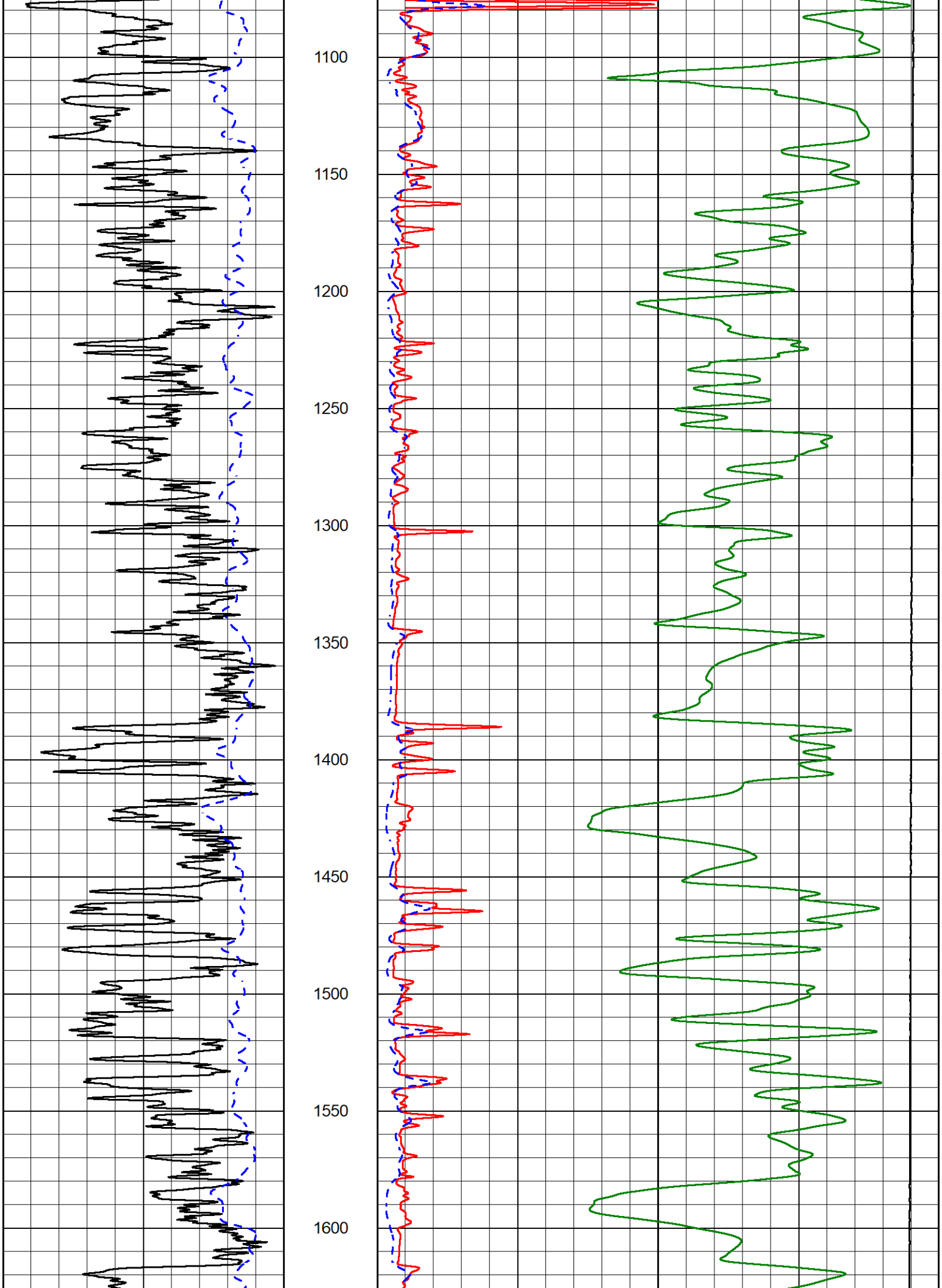
Database File	castle_shields_1.db
Dataset Pathname	stackml/pass3.2
Presentation Format	_dil2in
Dataset Creation	Tue Aug 20 20:53:43 2024
Charted by	Depth in Feet scaled 1:600

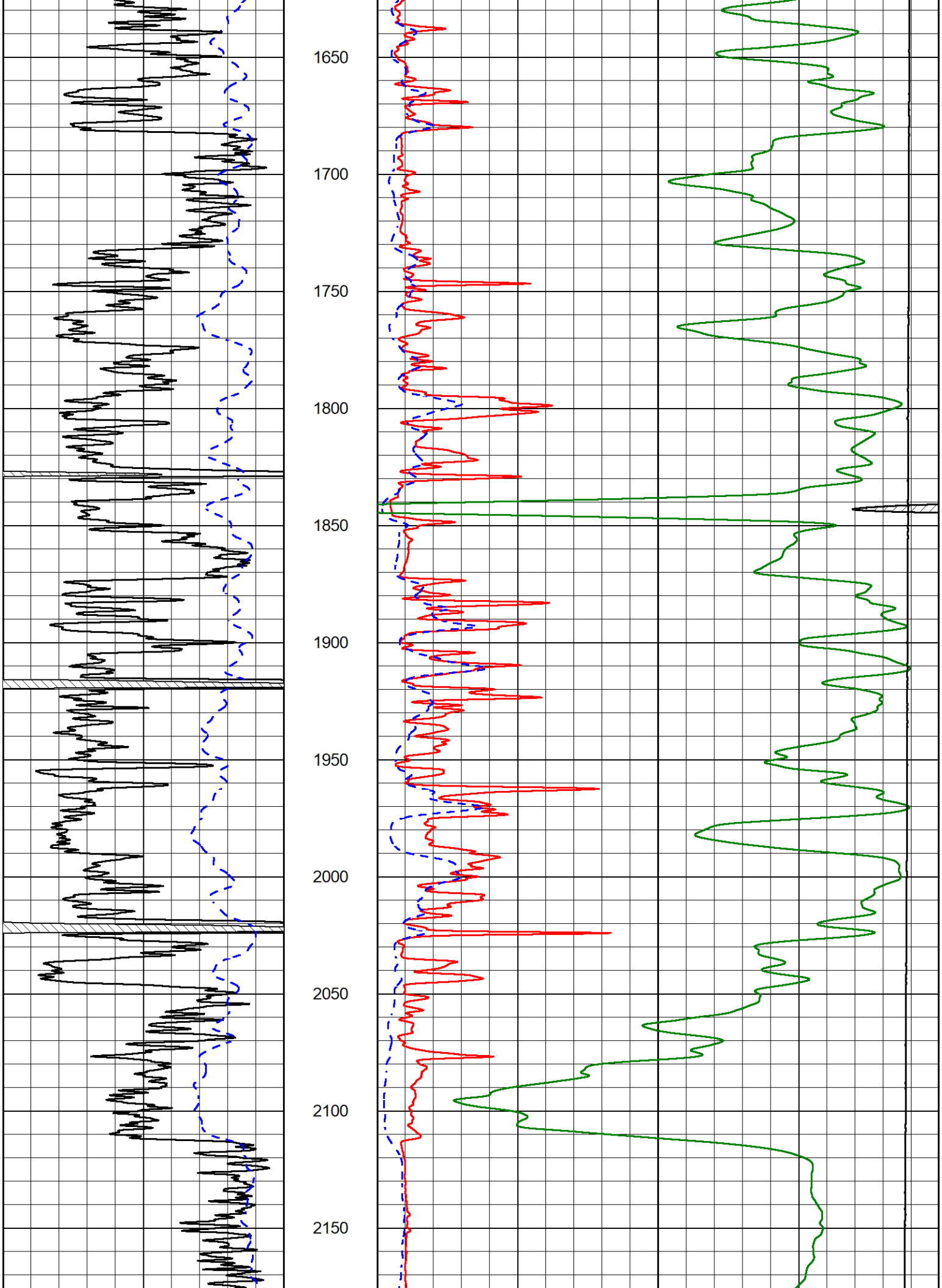
0 Gamma Ray (GAPI) 150
-200 SP (mV) 0

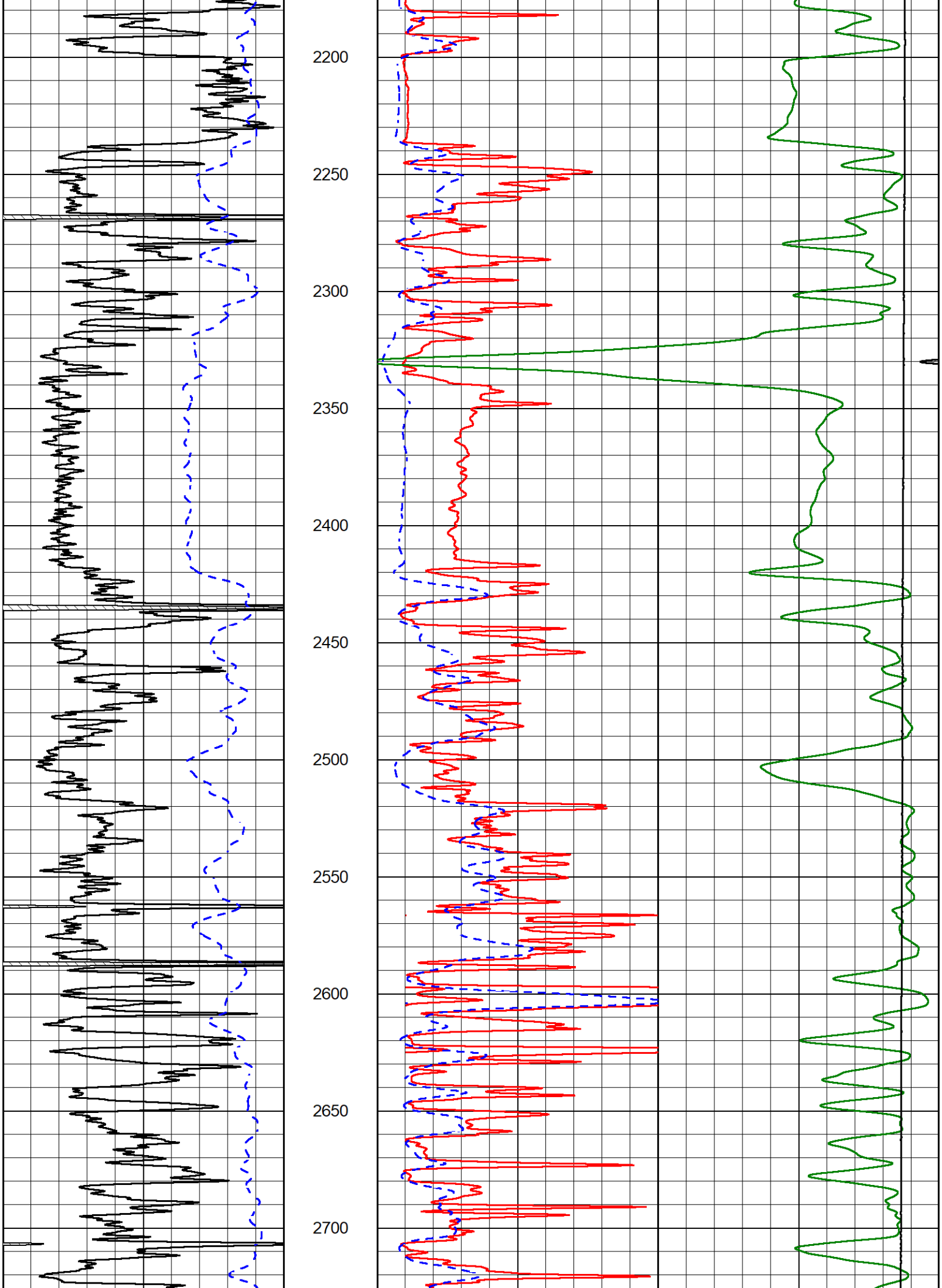
1000 Conductivity (mmho/m) 0
15000 Line Tension (lb) 0
0 Shallow Resisitivity (Ohm-m) 50
0 Deep Resistivity (Ohm-m) 50
Shallow Resistivity
50 (Ohm-m) 200
50 Deep Resistivity (Ohm-m) 200

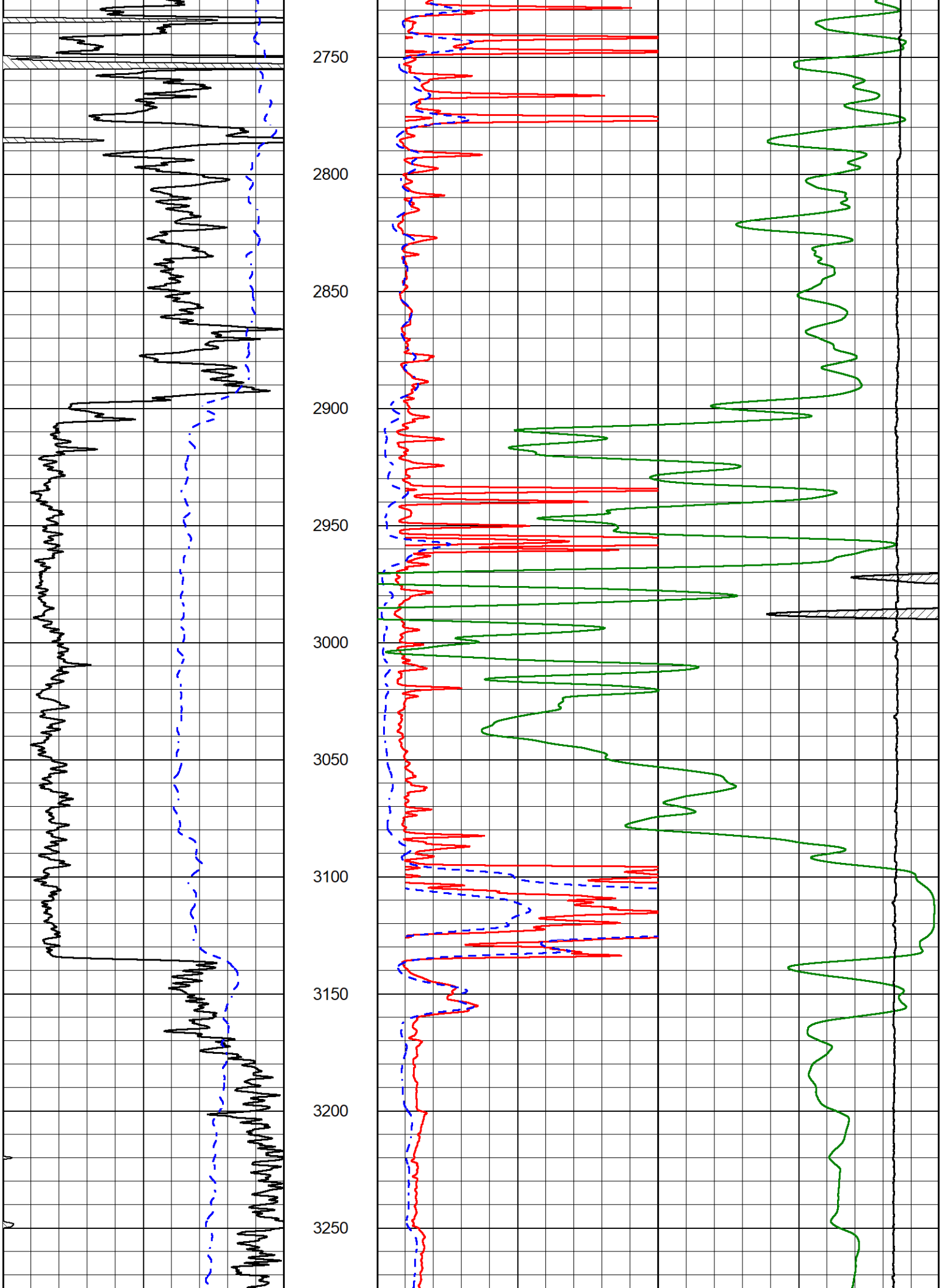


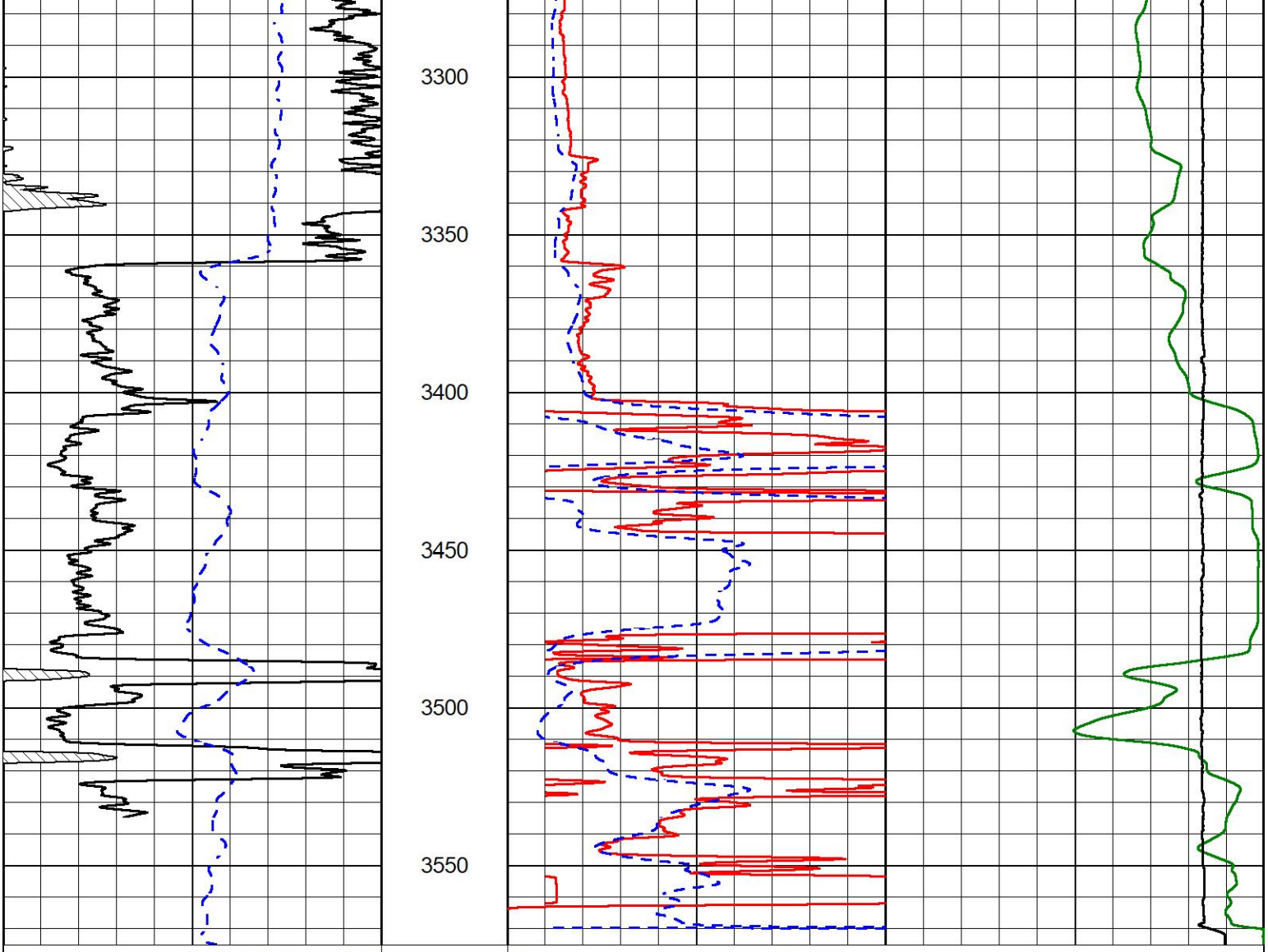

550
600
650
700
750
800
850
900
950
1000
1050


1100
1150
1200
1250
1300
1350
1400
1450
1500
1550
1600


1650
1700
1750
1800
1850
1900
1950
2000
2050
2100
2150


2200
2250
2300
2350
2400
2450
2500
2550
2600
2650
2700


2750
2800
2850
2900
2950
3000
3050
3100
3150
3200
3250



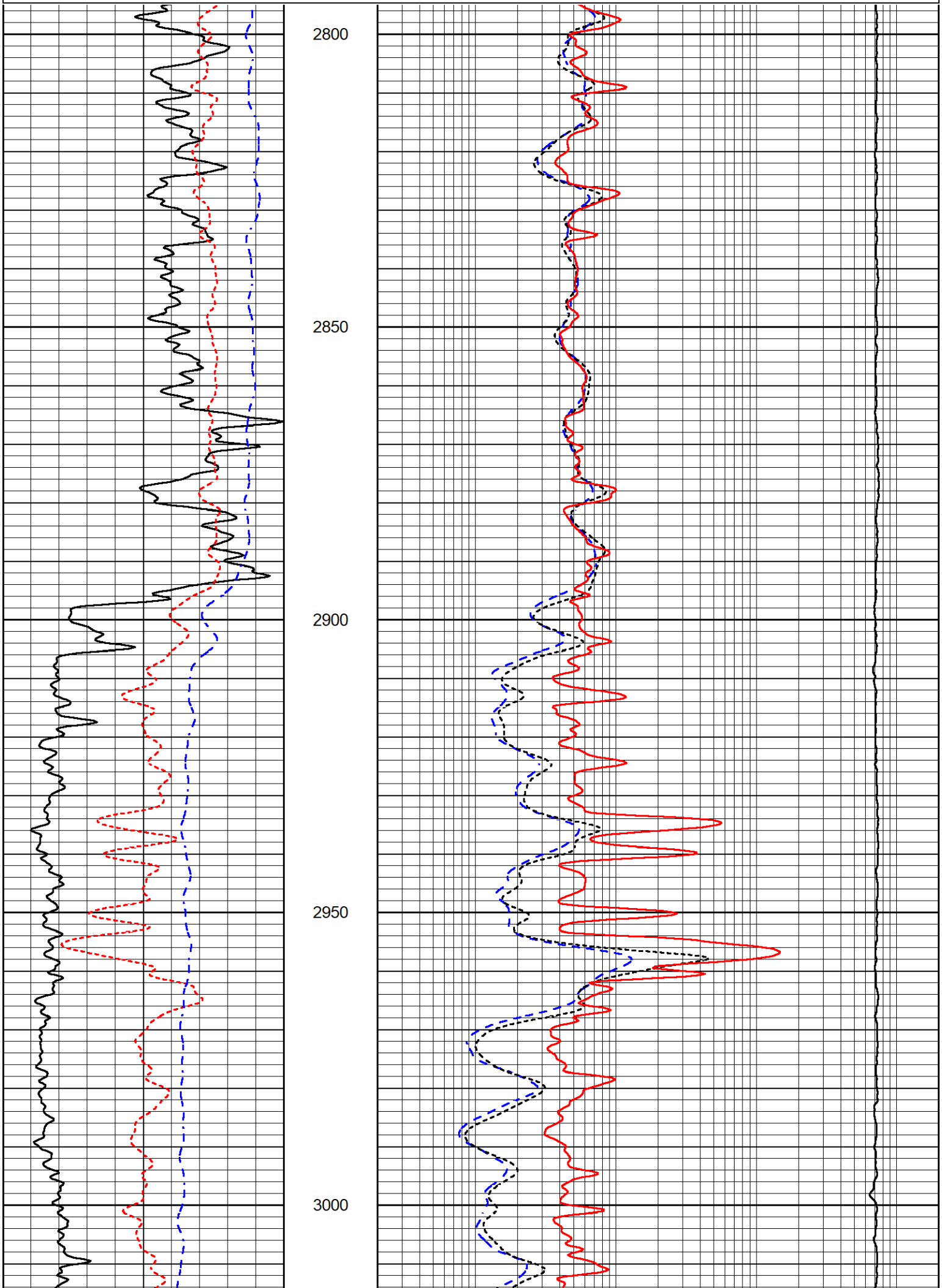
DETAIL SECTION

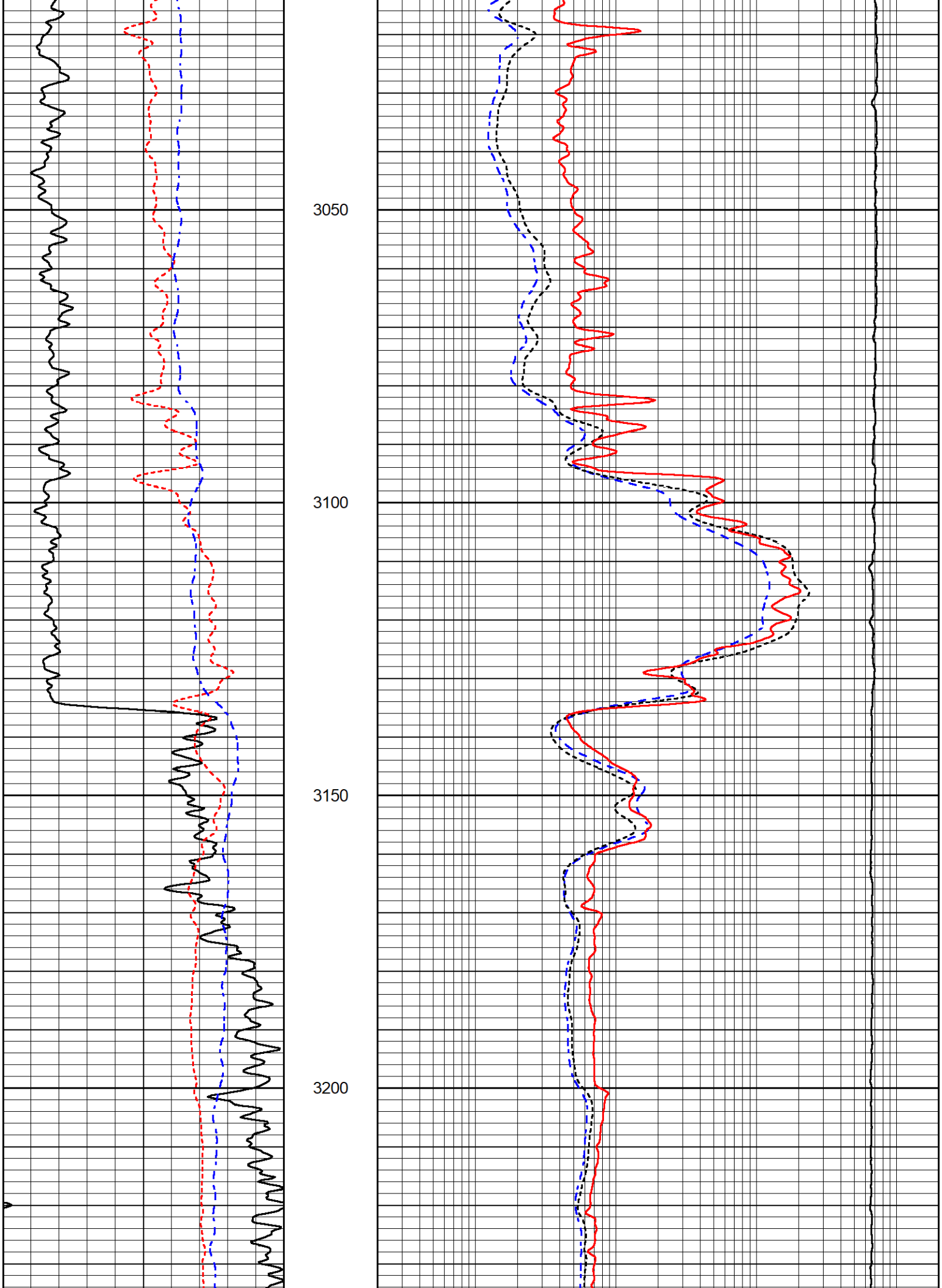
MAIN PASS

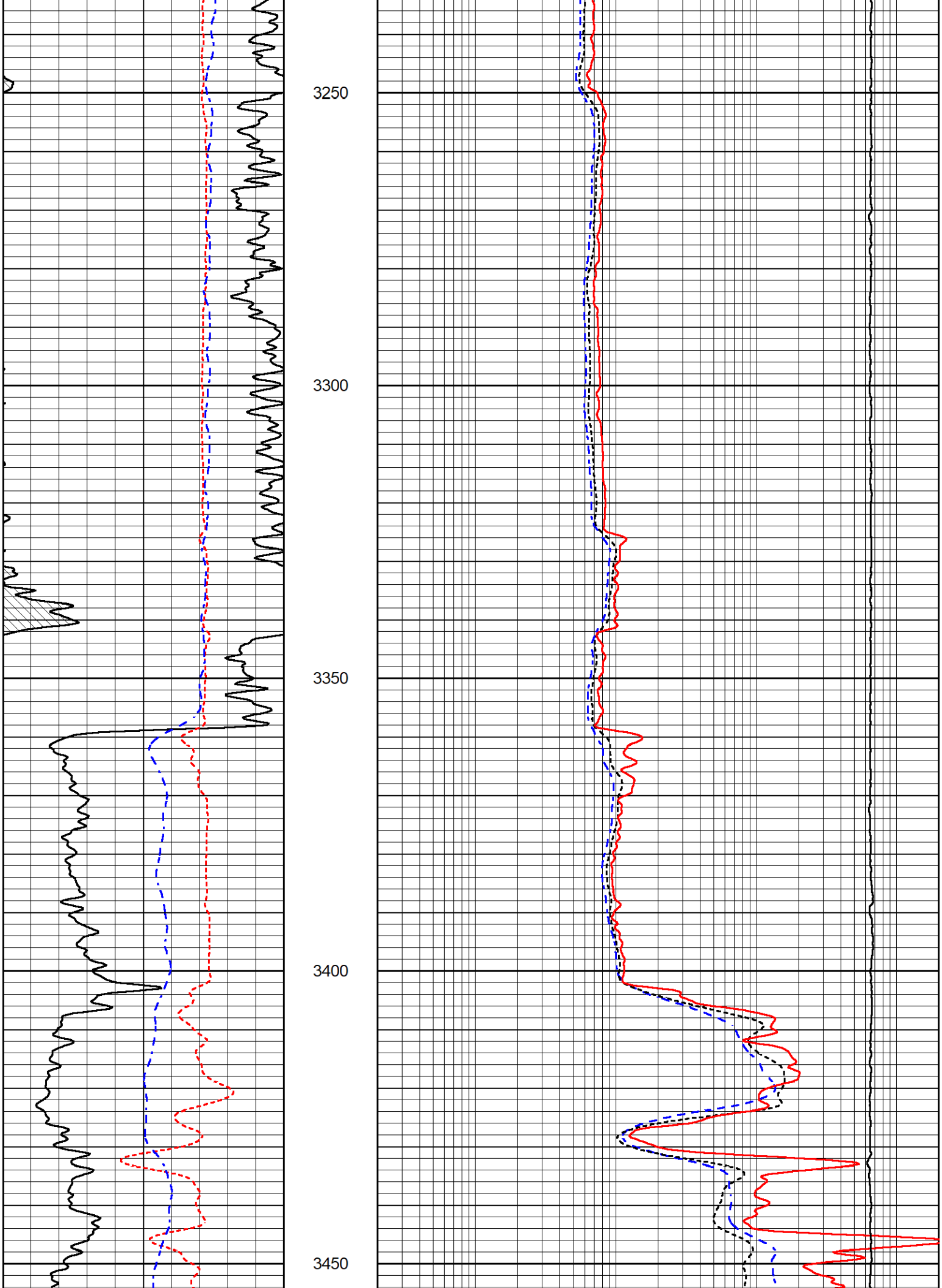
Database File	castle_shields_1.db
Dataset Pathname	stackml/pass3.1
Presentation Format	_dil
Dataset Creation	Tue Aug 20 20:54:03 2024
Charted by	Depth in Feet scaled 1:240

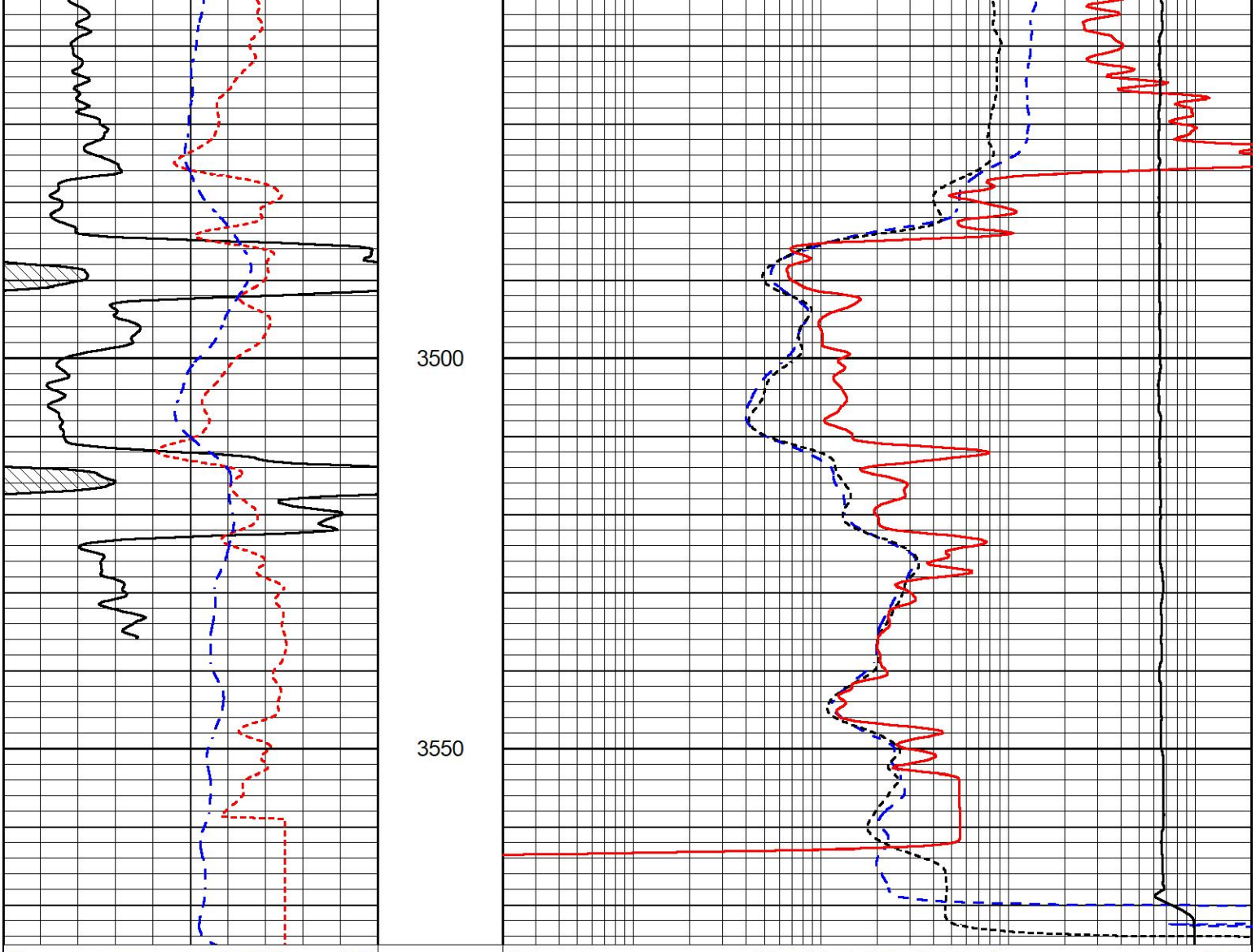
0	Gamma Ray (GAPI)	150
50	RXORT	250
-200	SP (mV)	0

0.2	Deep Resistivity (Ohm-m)	2000
0.2	Medium Resistivity (Ohm-m)	2000
0.2	RLL3 (Ohm-m)	2000
10000	Line Tension (lb)	0


2800
2850
2900
2950
3000


3050
3100
3150
3200


3250
3300
3350
3400
3450



0	Gamma Ray (GAPI)	150
50	RXORT	250
-200	SP (mV)	0

0.2	Deep Resistivity (Ohm-m)	2000
0.2	Medium Resistivity (Ohm-m)	2000
0.2	RLL3 (Ohm-m)	2000
10000	Line Tension (lb)	0

MIDWEST WIRELINE

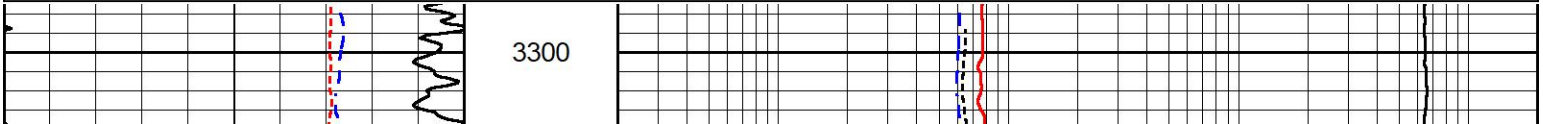
REPEAT SECTION

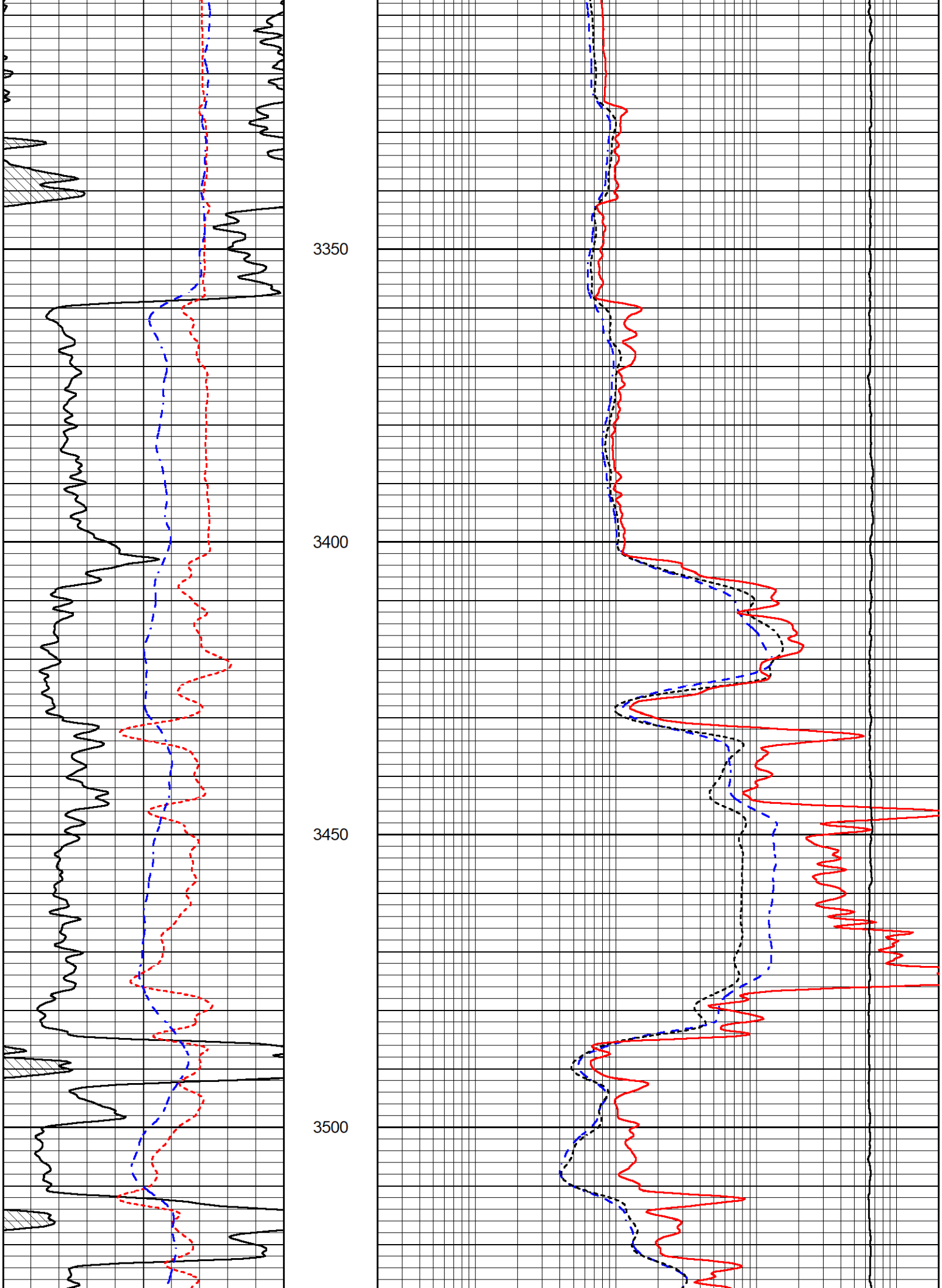
REPEAT PASS

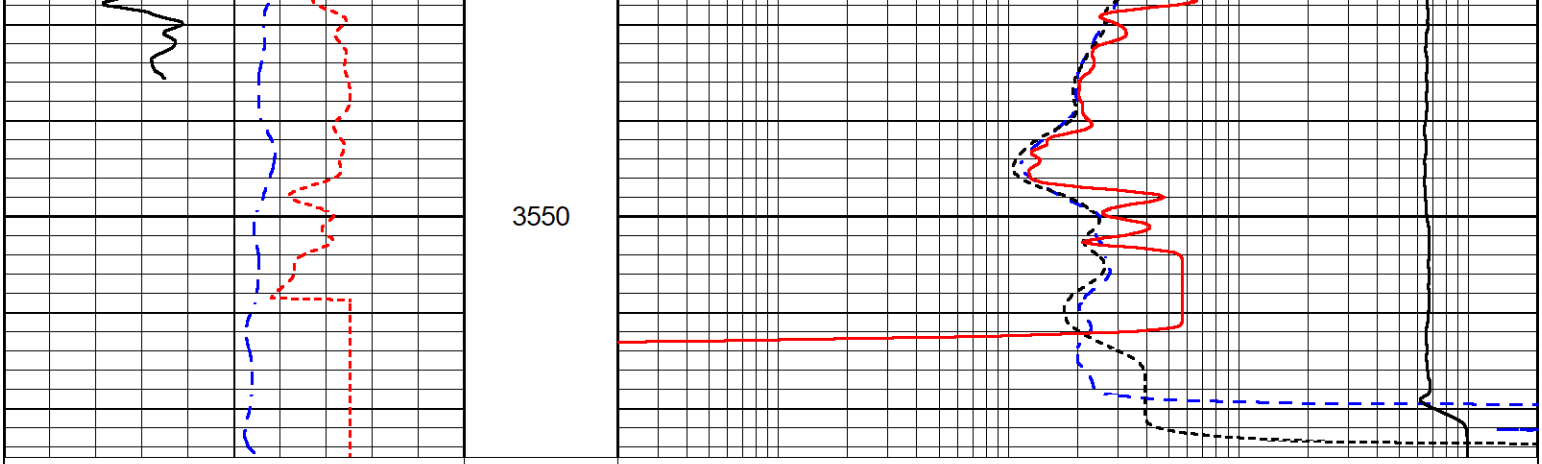
Database File	castle_shields_1.db
Dataset Pathname	stackml/pass2.1
Presentation Format	_dil
Dataset Creation	Tue Aug 20 20:24:31 2024
Charted by	Depth in Feet scaled 1:240

0	Gamma Ray (GAPI)	150
50	RXORT	250
-200	SP (mV)	0

0.2	Deep Resistivity (Ohm-m)	2000
0.2	Medium Resistivity (Ohm-m)	2000
0.2	RLL3 (Ohm-m)	2000
10000	Line Tension (lb)	0




3350
3400
3450
3500



0	Gamma Ray (GAPI)	150
50	RXORT	250
-200	SP (mV)	0

0.2	Deep Resistivity (Ohm-m)	2000
0.2	Medium Resistivity (Ohm-m)	2000
0.2	RLL3 (Ohm-m)	2000
10000	Line Tension (lb)	0

Calibration Report

Database File	castle_shields_1.db
Dataset Pathname	stackml/pass3.1
Dataset Creation	Tue Aug 20 20:54:03 2024

Dual Induction Calibration Report

Serial-Model:	506-M&W
Surface Cal Performed:	Sun Jun 30 20:32:27 2024

	Readings		References			Results	
Loop:	Air	Loop	Air	Loop		m	b
Deep	84.211	428.152	0.000	255.800	mmho/m	0.465	-32.000
Medium	141.000	670.654	0.000	255.800	mmho/m	0.390	-10.000

Microlog Calibration Report

Serial-Model:	402-PSI STKBL ML
Performed:	Thu May 30 05:58:00 2024

	Readings		References			Results	
	Zero	Cal	Zero	Cal		m	b
Normal	0.0037	0.0043	0.0000	10.0000	Ohm-m	16000.0000	0.0000
Inverse	0.1208	0.0013	0.0000	10.0000	Ohm-m	20500.0000	0.0000
Caliper	1.0046	1.1419	5.5000	20.0000	in	50.0000	-44.6250

Compensated Density Calibration Report

Serial-Model:	303-03-M&W
Source #:	21170B
Master Calibration Performed:	Fri Mar 22 13:26:25 2024

Master Calibration

	Density		Far Detector	Near Detector	
Magnesium	1.680	g/cc	5466.68	7555.42	cps

Aluminum	2.580	g/cc	1173.67	5050.86	cps

Spine Angle = 75.33 Density/Spine Ratio = 0.566

	Size		Reading
Small Ring	4.00	in	1.17
Large Ring	14.00	in	1.07

Compensated Neutron Calibration Report

Serial Number: 210
Tool Model: M&W

CALIBRATION

Detector	Readings		Target		Normalization
Short Space	6240.00	cps	1000.00	cps	1.6025
Long Space	460.00	cps	1000.00	cps	1.9500

Gamma Ray Calibration Report

Serial Number: 105
Tool Model: M&W
Performed: Sat Oct 21 23:48:19 2023

Calibrator Value: 500.0 GAPI

Background Reading: 24.0 cps
Calibrator Reading: 637.0 cps

Sensitivity: 0.6000 GAPI/cps

MIDWEST WIRELINE

Company	Castle Resources Inc
Well	Shields 1
Field	Lindsborg
County	McPherson
State	Kansas