MIDWEST WIRELINE

DUAL INDUCTION LOG

Company Castle Resources Inc.
Well Kennedy #1
Field
County Sheridan State Kansas
Location: API # : 15-179-21486-00-00
E/2 - E/2 - W/2
SEC 23 TWP 9S RGE 28W
Permanent Datum Ground Level Elevation 2802
Log Measured From Kelly Bushing
Drilling Measured From Kelly Bushing

Other Services: CNL/CDL, MEL

Elevation: K.B. 2807, D.F., G.L. 2802

Date	5/31/2022		
Run Number	One		
Depth Driller	4210		
Depth Logger	4210		
Bottom Logged Interval	4209		
Top Log Interval	300		
Casing Driller	8.625 @ 310		
Casing Logger	307		
Bit Size	7.875		
Type Fluid in Hole	Chemical		
Salinity,ppm CL	3000		
Density / Viscosity	9.5 50		
pH / Fluid Loss	9.5 8.8		
Source of Sample	FLOWLINE		
Rm @ Meas. Temp	0.55 @ 80		
Rmf @ Meas. Temp	0.41 @ 80		
Rmc @ Meas. Temp	0.74 @ 80		
Source of Rmf / Rmc	CHARTS		
Rm @ BHT	0.37 @ 118		
Operating Rig Time	3 Hours		
Max Rec. Temp. F	118		
Equipment Number	P-24		
Location	Hays		
Recorded By	B. Waggoner	D. Schmidt	
Witnessed By	Jerry Green		

<<< Fold Here >>>

Comments

N/A DENOTES NOT AVAILABLE OR NON-APPLICABLE.

Hoxie,
South to 70 Road, 1 1/2 Miles East, South 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: B. Waggoner	Primary Witness: Jerry Green
Operator:	Secondary Witness:
Operator:	Secondary Witness:
Operator:	Secondary Witness:

Sensor	Offset (ft)	Schematic	Description	Length (ft)	O.D. (in)	Weight (lb

Sensor	Offset (ft)	Schematic	Description	Length (ft)	O.D. (in)	Weight (lb
GR	40.33		GR-M&W (101)	3.00	3.50	50.00
CNLSC	37.23		CNT-M&W (207-MW)	5.00	3.50	100.00
CNSSC	36.48					
			CDL-M&W (305-05)	8.50	4.00	250.00
LSD	28.18					
DCAL	28.17					
SSD	27.68					
			ML-PSIML (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 (502 HT)	18.25	3.50	220.00
CILD	8.33					
CILM	4.50					
SP	0.20					

Dataset: castle_kennedy#1.db: field/well/stkml/pass4.15
Total length: 42.33 ft
Total weight: 685.00 lb
O.D.: 4.00 in

Log Variables

DatabaseC:\ProgramData\Warrior\Data\castle_kennedy#1.db
Dataset field/well/stkml/pass4.15/_vars_

Top - Bottom

A	BOREID in	BOTTEMP degF	CASEOD in	CASETHCK in	FLUIDDEN g/cc	M	MATRXDEN g/cc
1	7.875	118	5.5	0	1	2	2.71

NPORSEL	PERFS	SNDERR mmho/m	SNDERRM mmho/m	SPSHIFT mV	SRFTEMP degF	SZCOR	TDEPTH ft
Limestone	0	0	0	-95	80	Off	4210

Variable Description

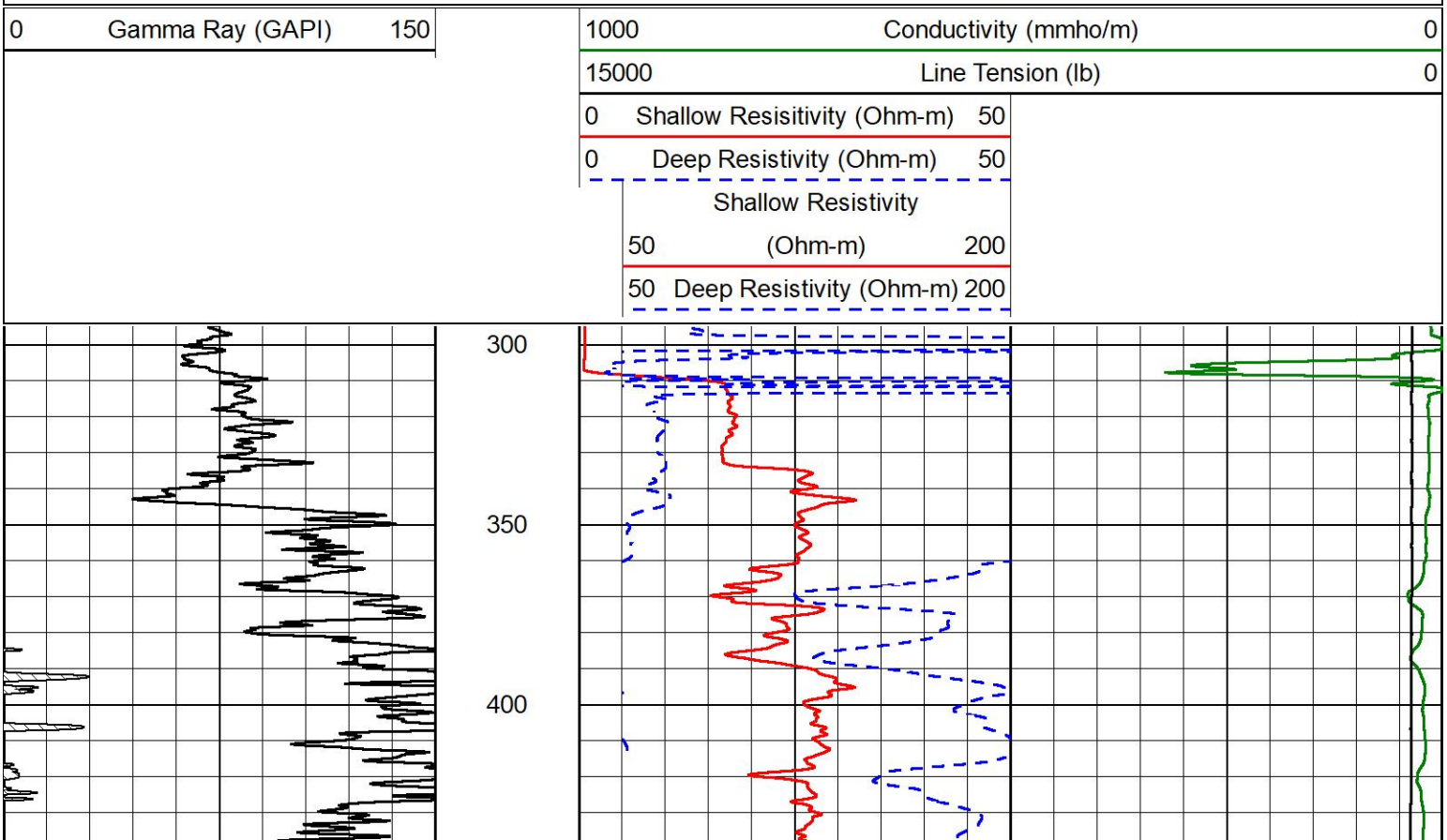
A : Cement Factor (a)
BOREID : Borehole I.D.
BOTTEMP : Bottom Hole Temperature
CASEOD : Casing O.D.
CASETHCK : Casing Thickness
FLUIDDEN : Fluid Density
M : Cement Exp (m)
MATRXDEN : Matrix Density
NPORSEL : Neutron Porosity Curve Select
PERFS : Perforation Flag
SNDERR : Deep Sonde Error Correction
SNDERRM : Medium Sonde Error Correction
SPSHIFT : S.P. Baseline Offset
SRFTEMP : Surface Temperature
SZCOR : CN Size Cor. ?
TDEPTH : Total Depth

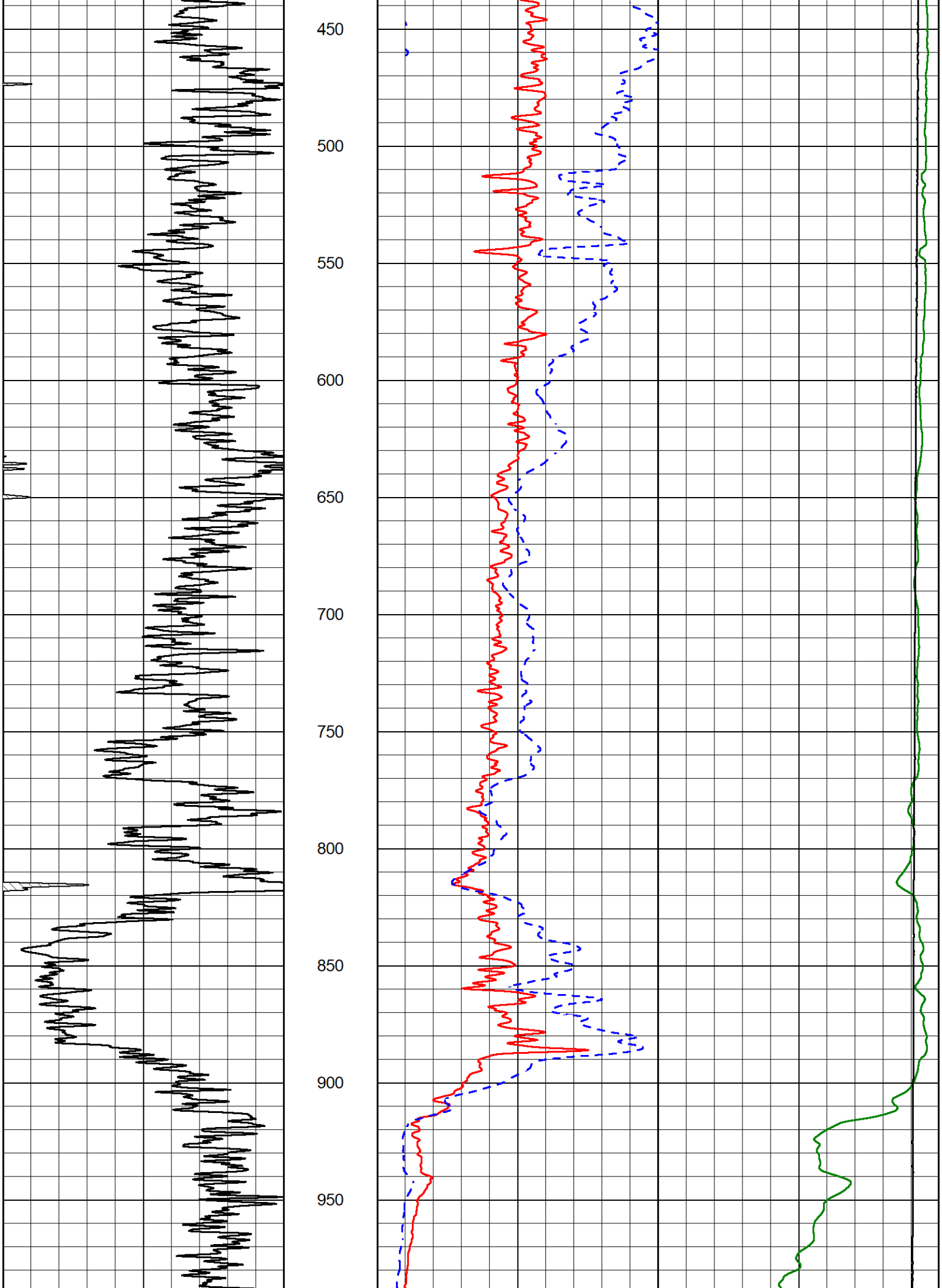
MIDWEST WIRELINE

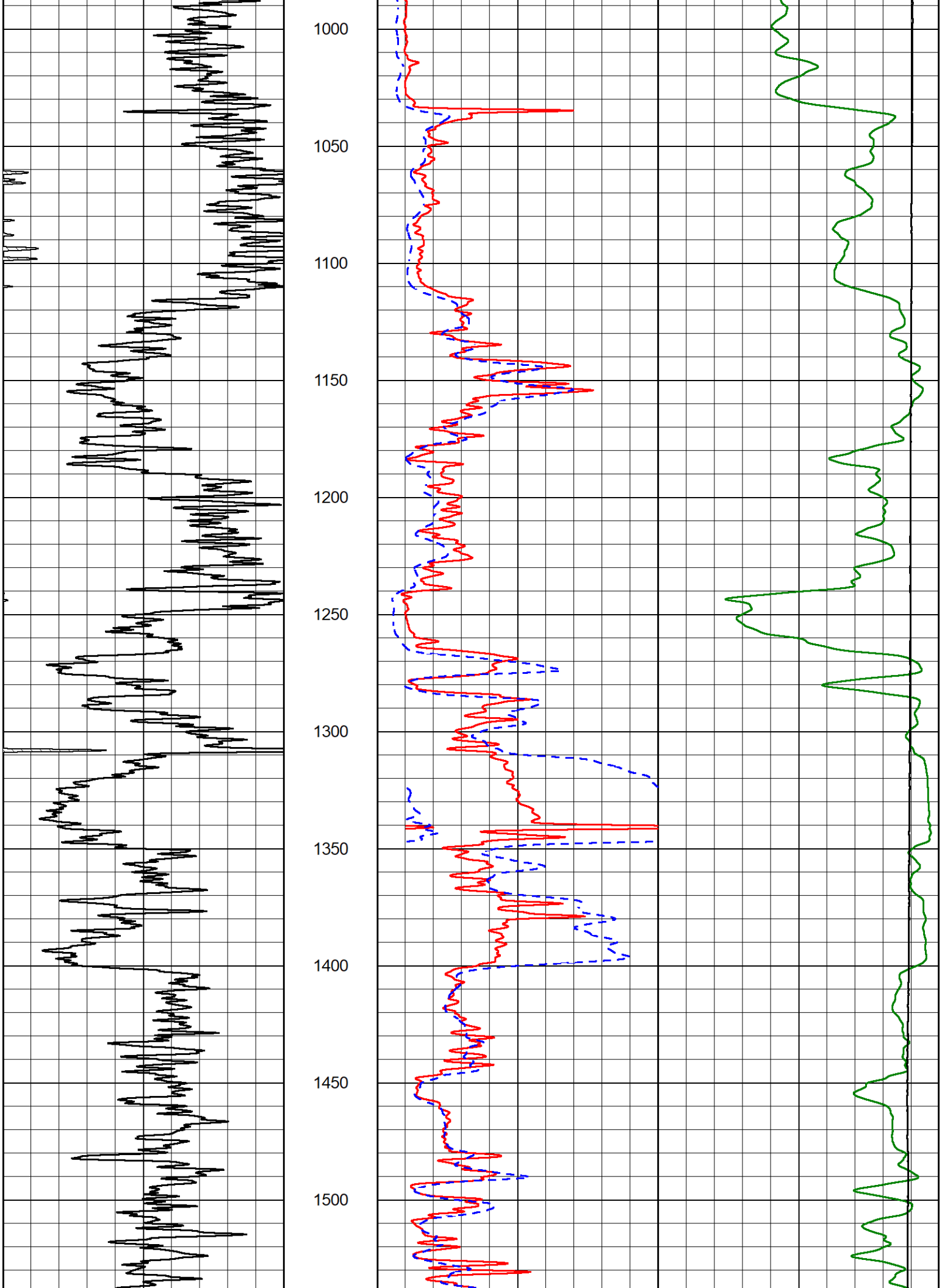
2" SCALE RESISTIVITY

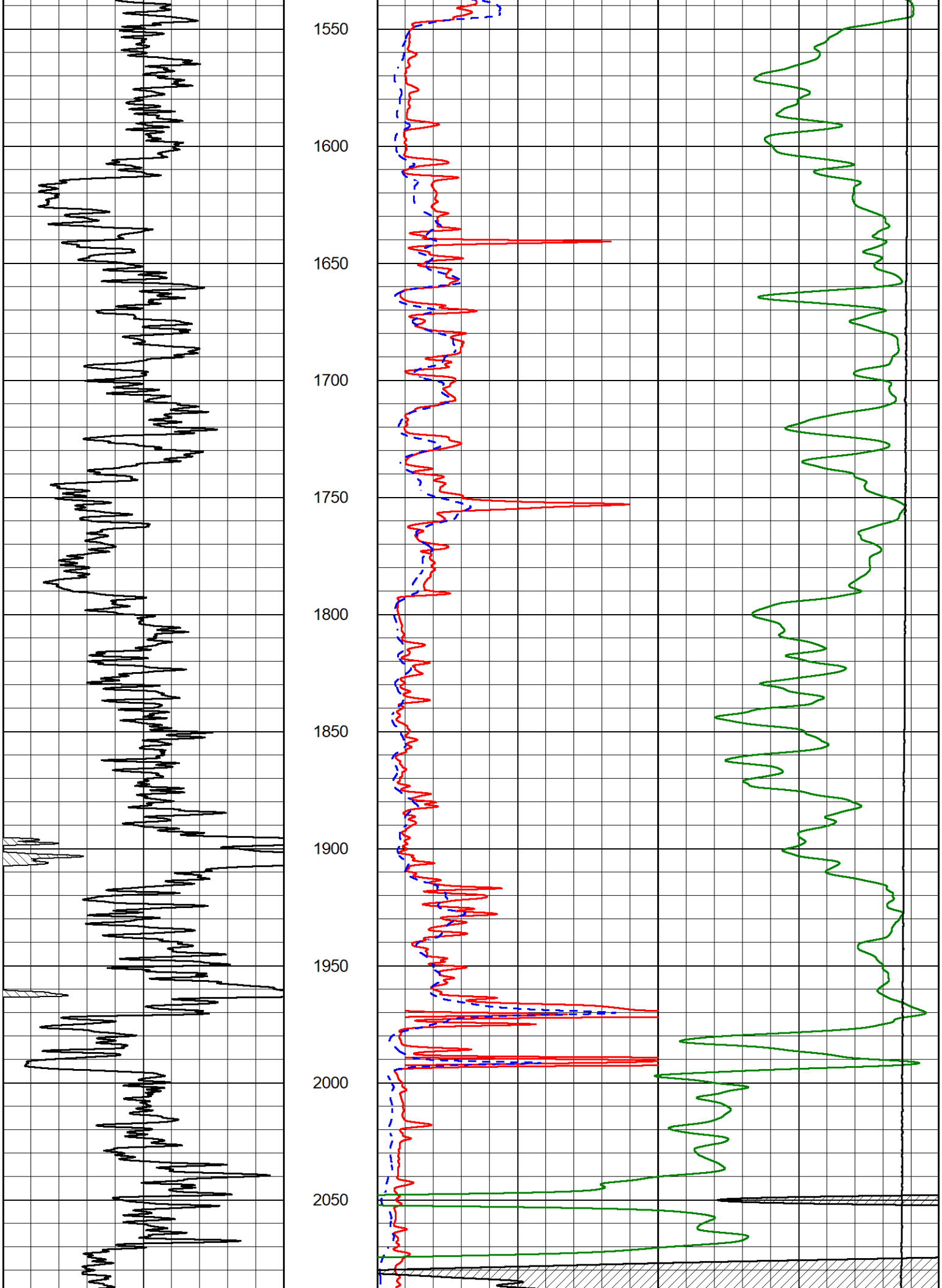
MAIN PASS

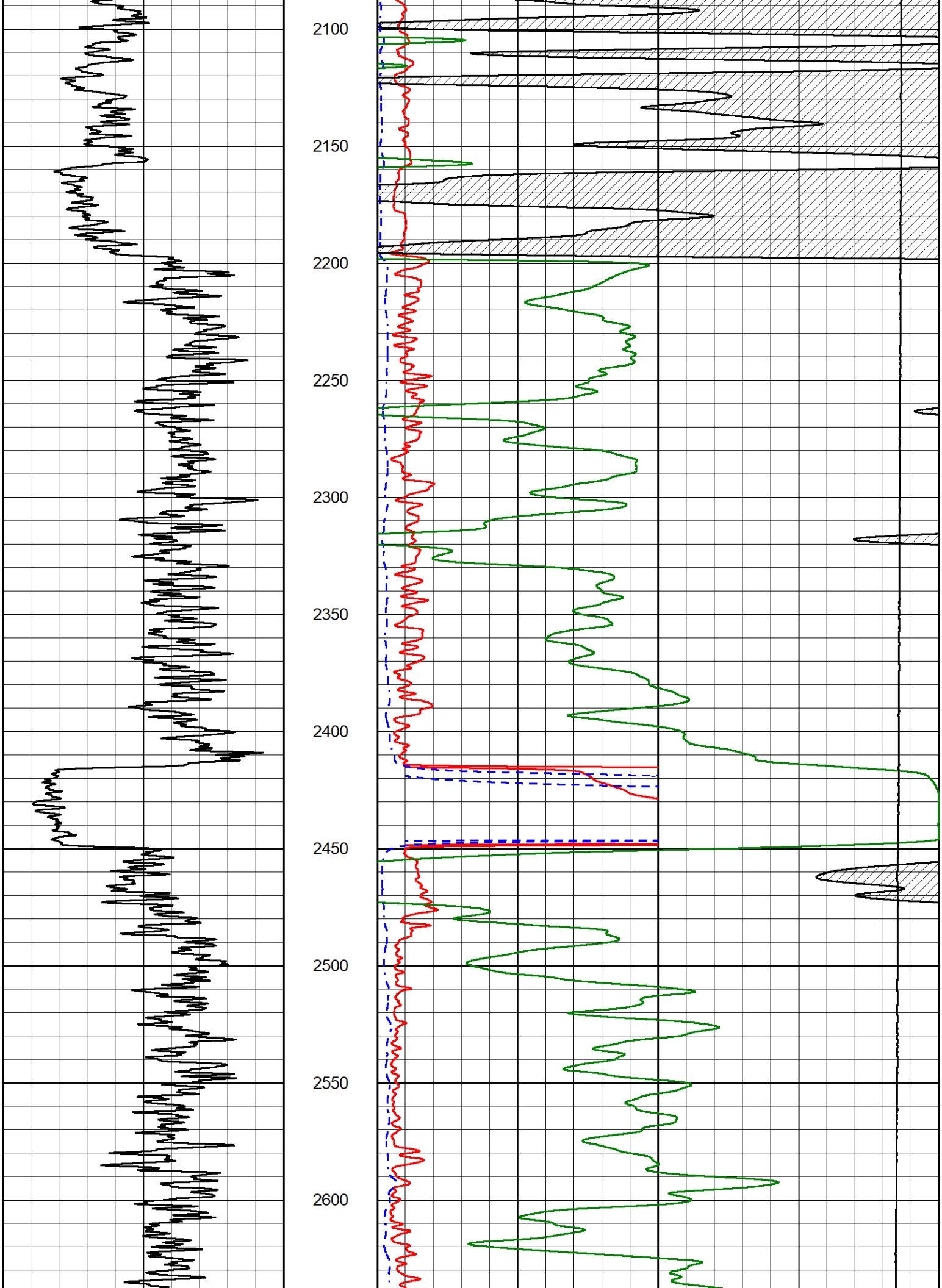
Database File	castle_kennedy#1.db
Dataset Pathname	stkml/pass4.3
Presentation Format	_dil2in
Dataset Creation	Tue May 31 16:35:57 2022
Charted by	Depth in Feet scaled 1:600

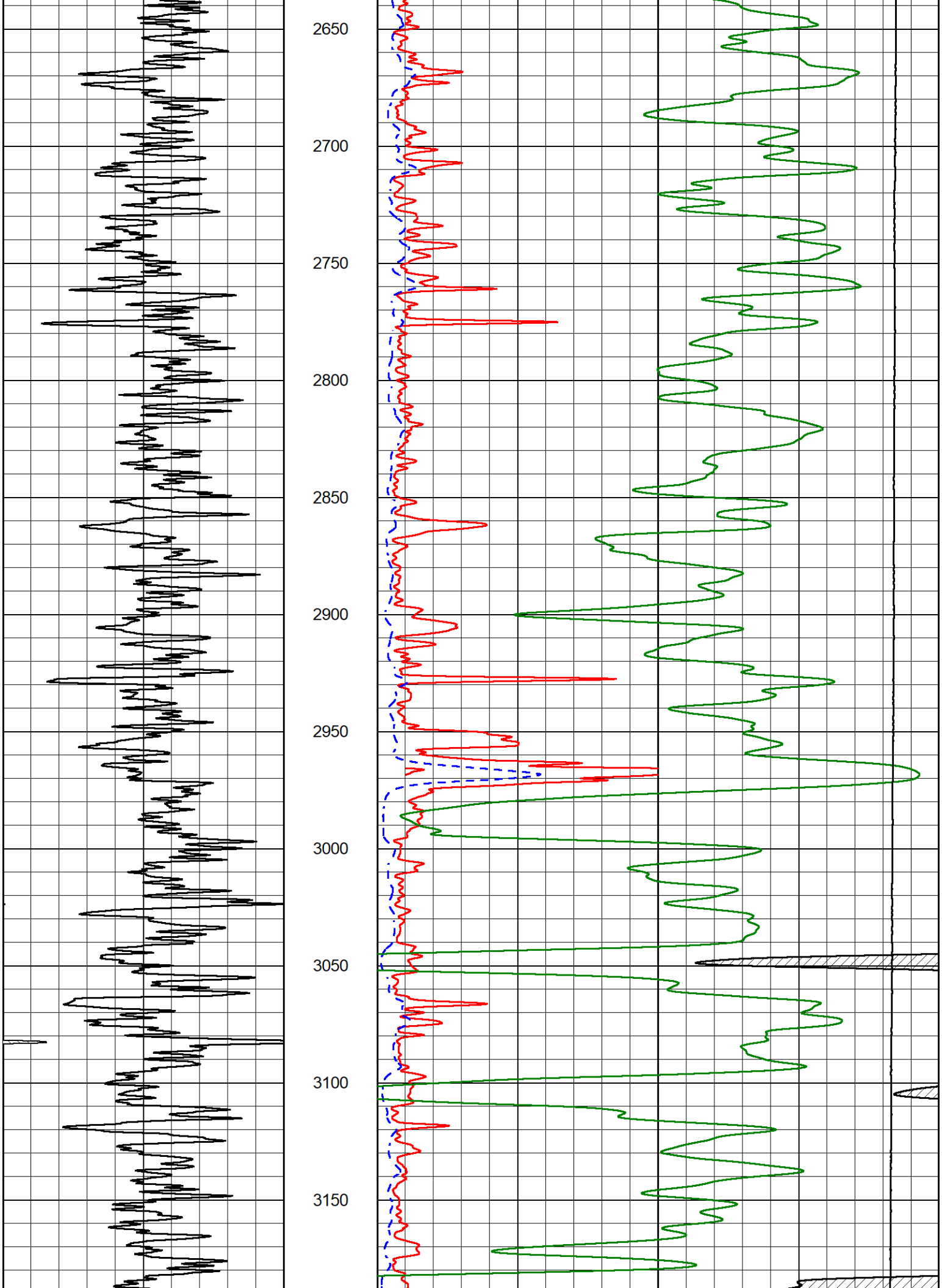


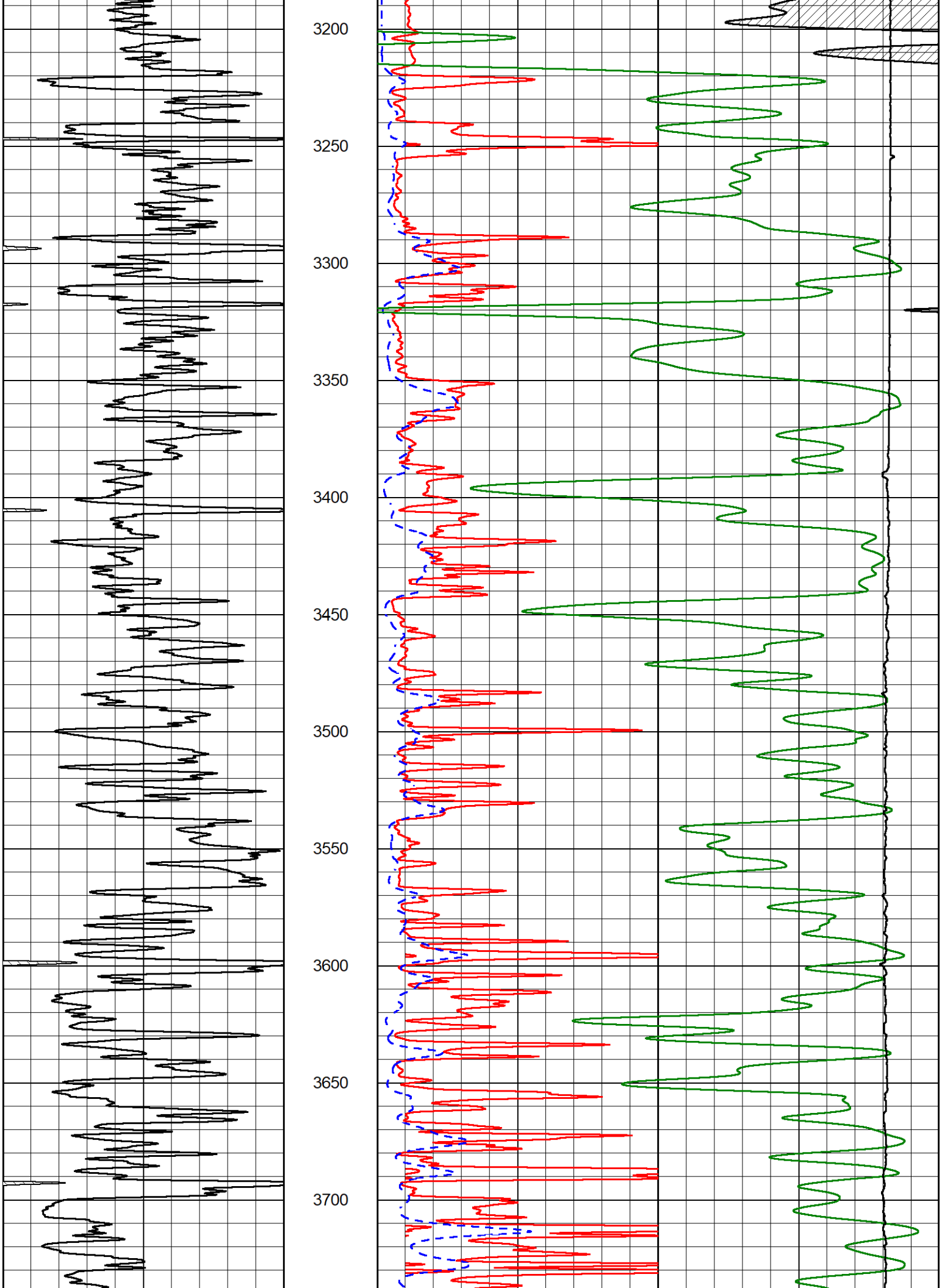

450
500
550
600
650
700
750
800
850
900
950

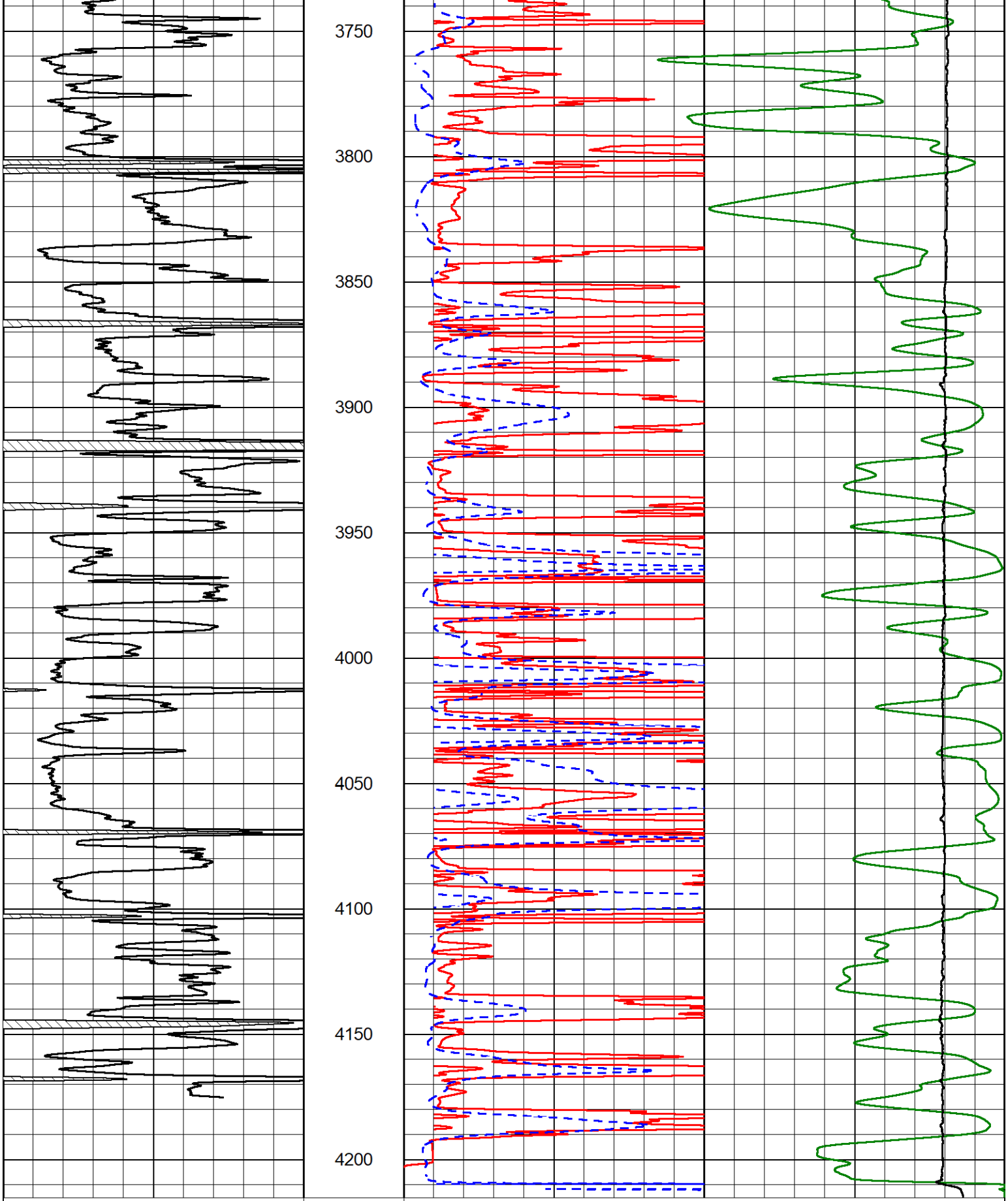

1000
1050
1100
1150
1200
1250
1300
1350
1400
1450
1500


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
3300
3350
3400
3450
3500
3550
3600
3650
3700


3750
3800
3850
3900
3950
4000
4050
4100
4150
4200
0 Gamma Ray (GAPI) 150
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

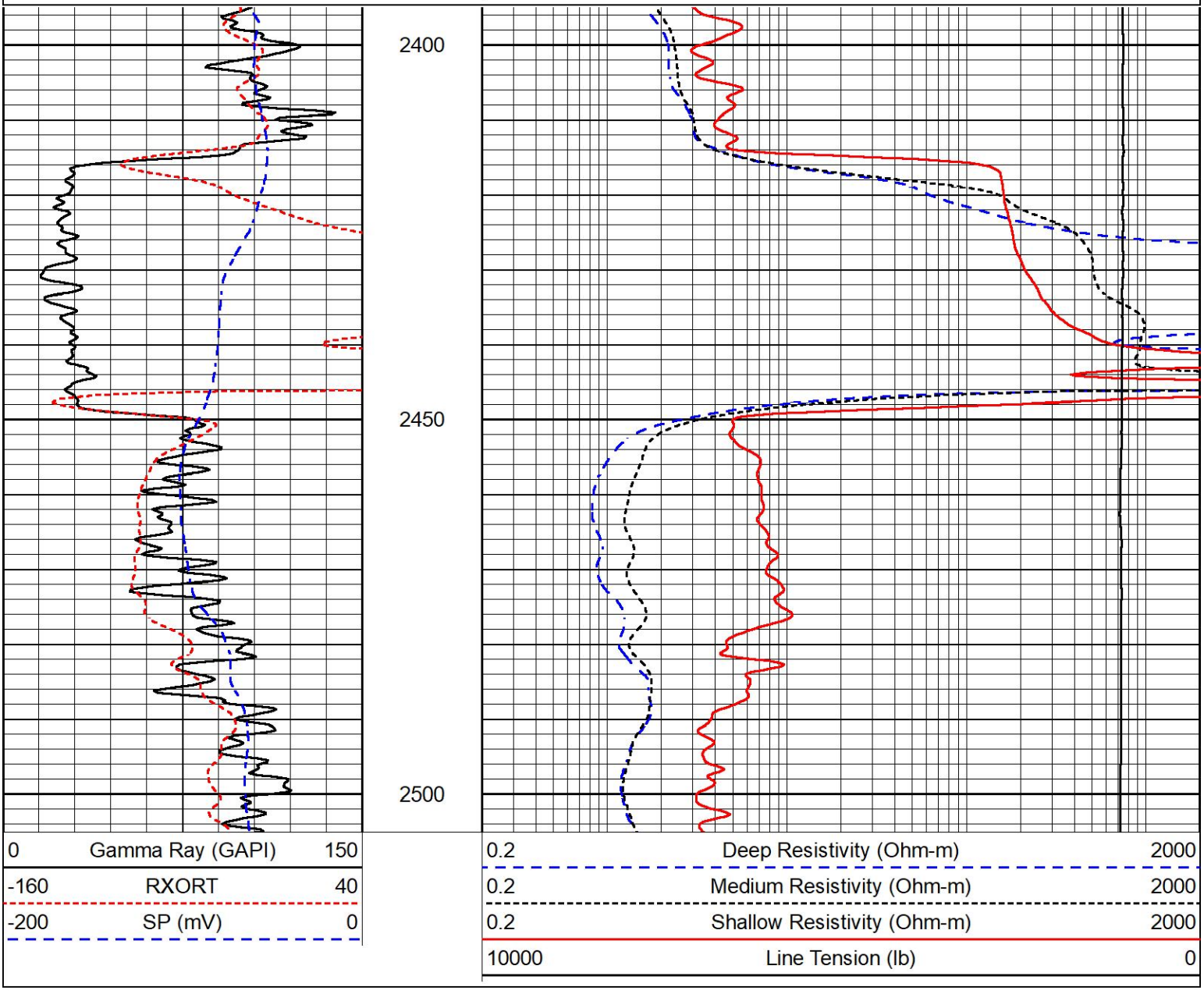
50 Deep Resistivity (Ohm-m) 200

MIDWEST WIRELINE

ANHYDRITE SECTION

MAIN PASS

Database File	castle_kennedy#1.db
Dataset Pathname	stkml/pass4.4
Presentation Format	_dil
Dataset Creation	Tue May 31 16:36:14 2022
Charted by	Depth in Feet scaled 1:240



MIDWEST WIRELINE

DETAIL SECTION

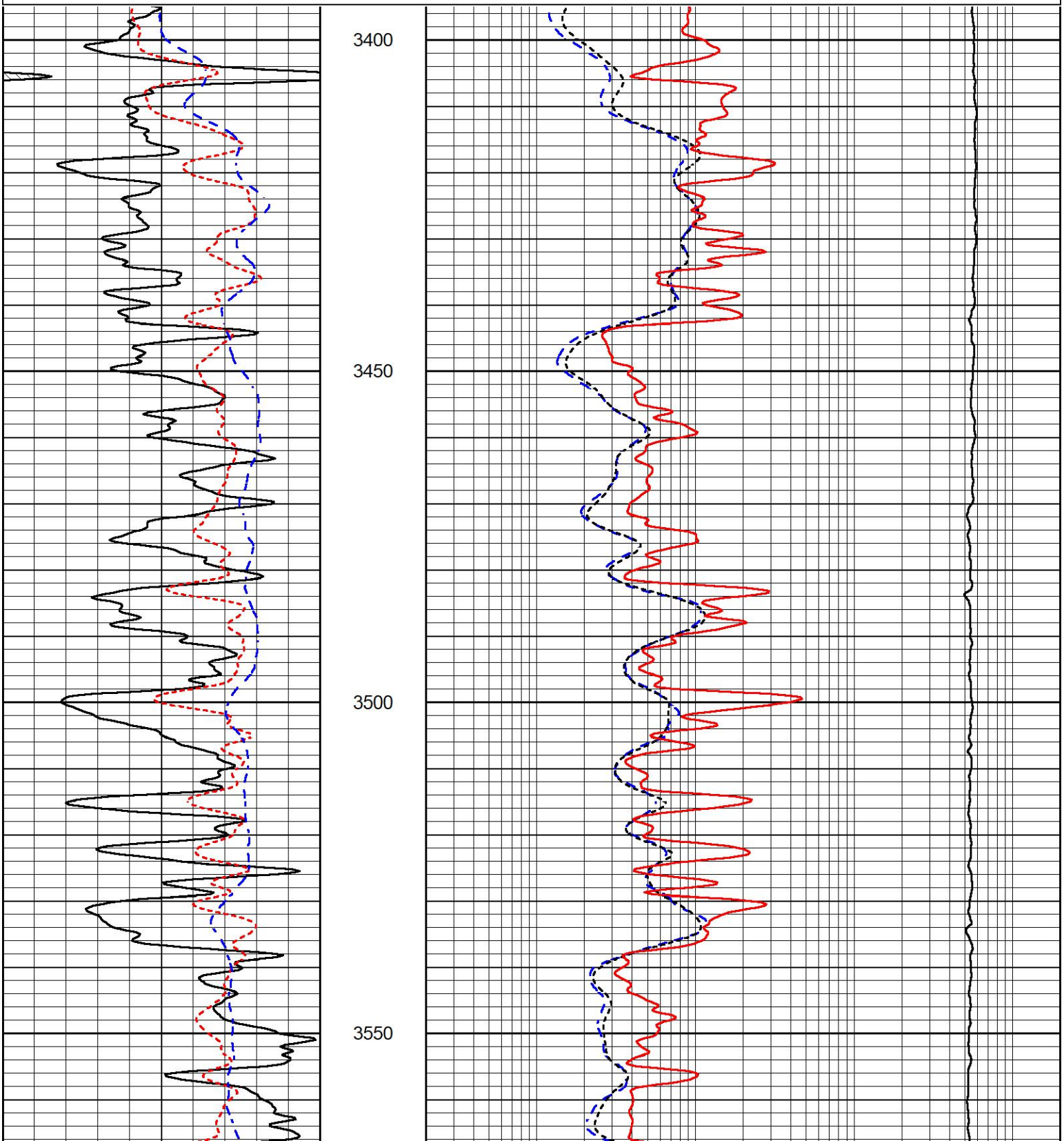
MIDWEST WIRELINE

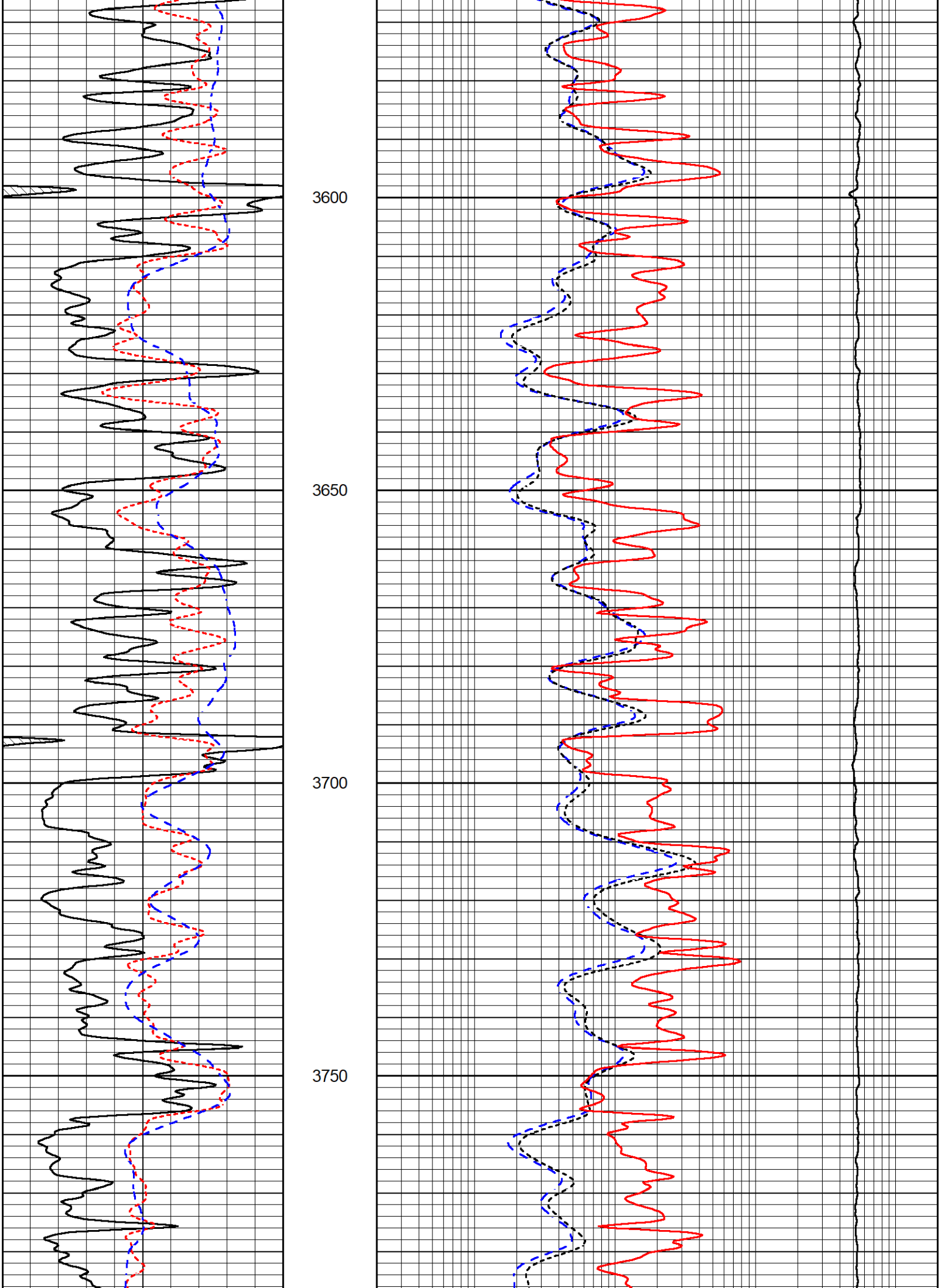
MAIN PASS

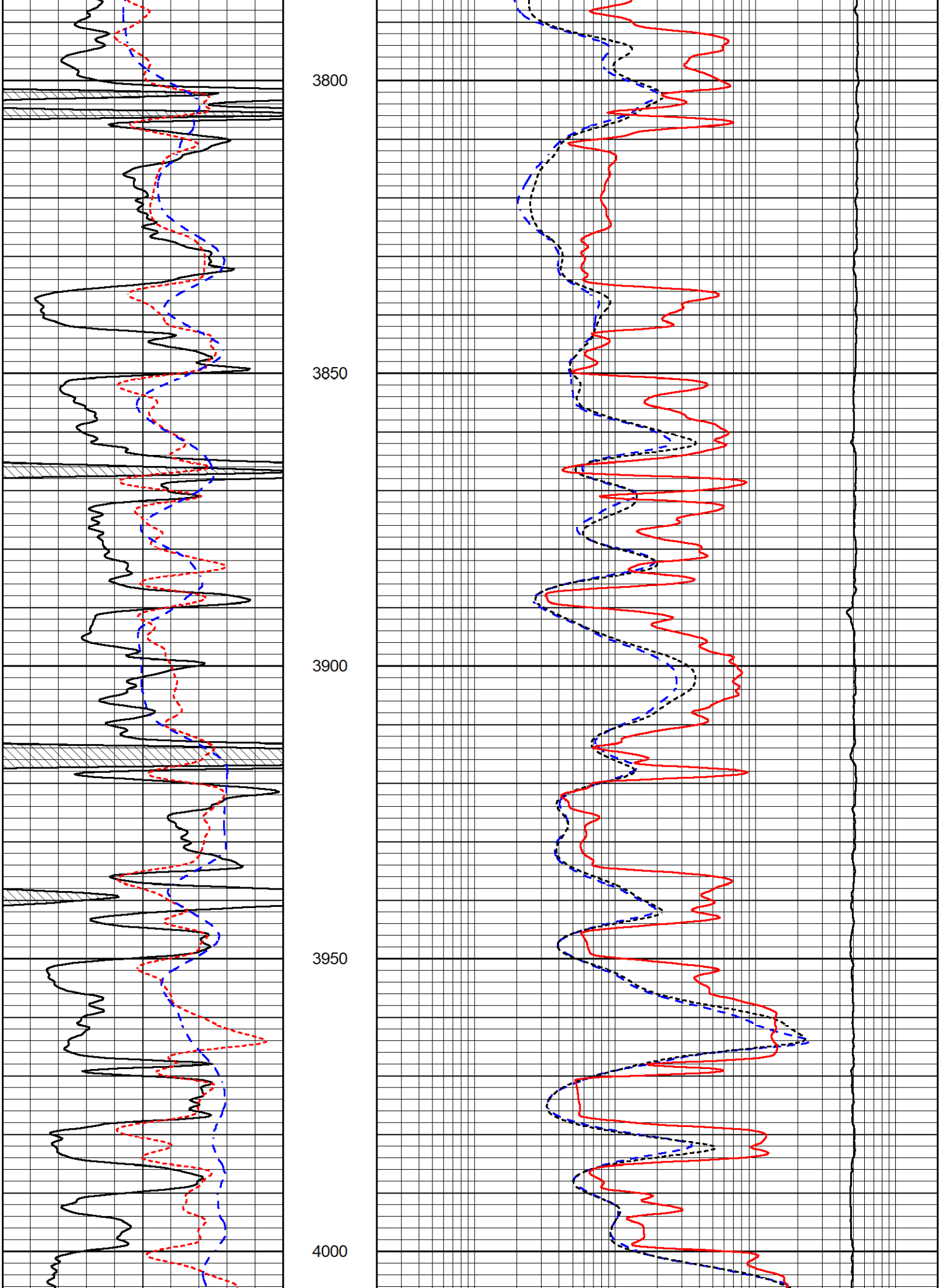
Database File	castle_kennedy#1.db
Dataset Pathname	stkml/pass4.1
Presentation Format	_dil
Dataset Creation	Tue May 31 16:35:32 2022
Charted by	Depth in Feet scaled 1:240

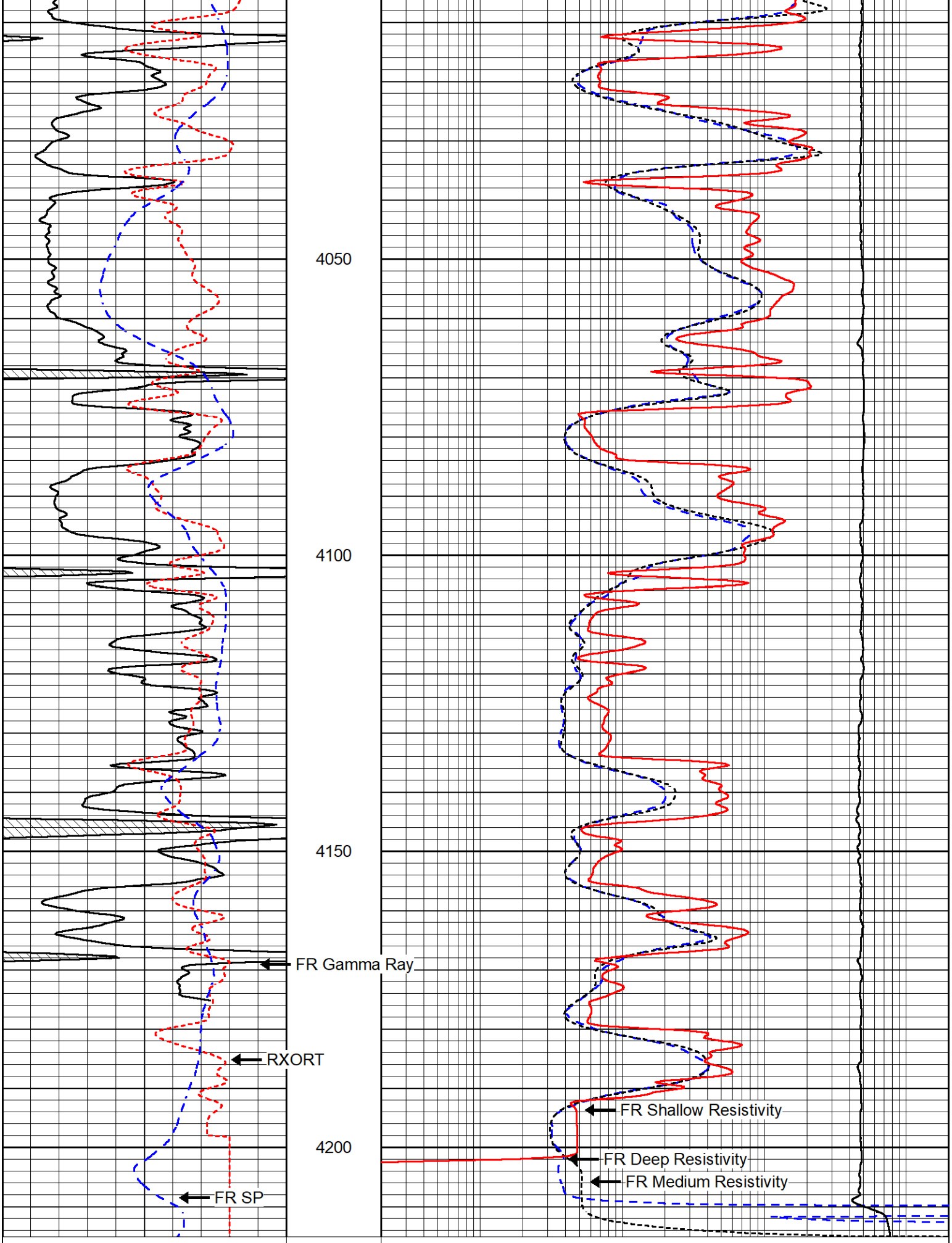
0	Gamma Ray (GAPI)	150
-160	RXORT	40
-200	SP (mV)	0

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




3600
3650
3700
3750


3800
3850
3900
3950
4000


4050
4100
4150
4200
FR Gamma Ray
RXORT
FR SP
FR Shallow Resistivity
FR Deep Resistivity
FR Medium Resistivity
0
Gamma Ray (GAPI)
150
-160
RXORT
40
0.2
Deep Resistivity (Ohm-m)
2000
0.2
Medium Resistivity (Ohm-m)
2000

-200	SP (mV)	0
0.2	Shallow Resistivity (Ohm-m)	2000
10000	Line Tension (lb)	0

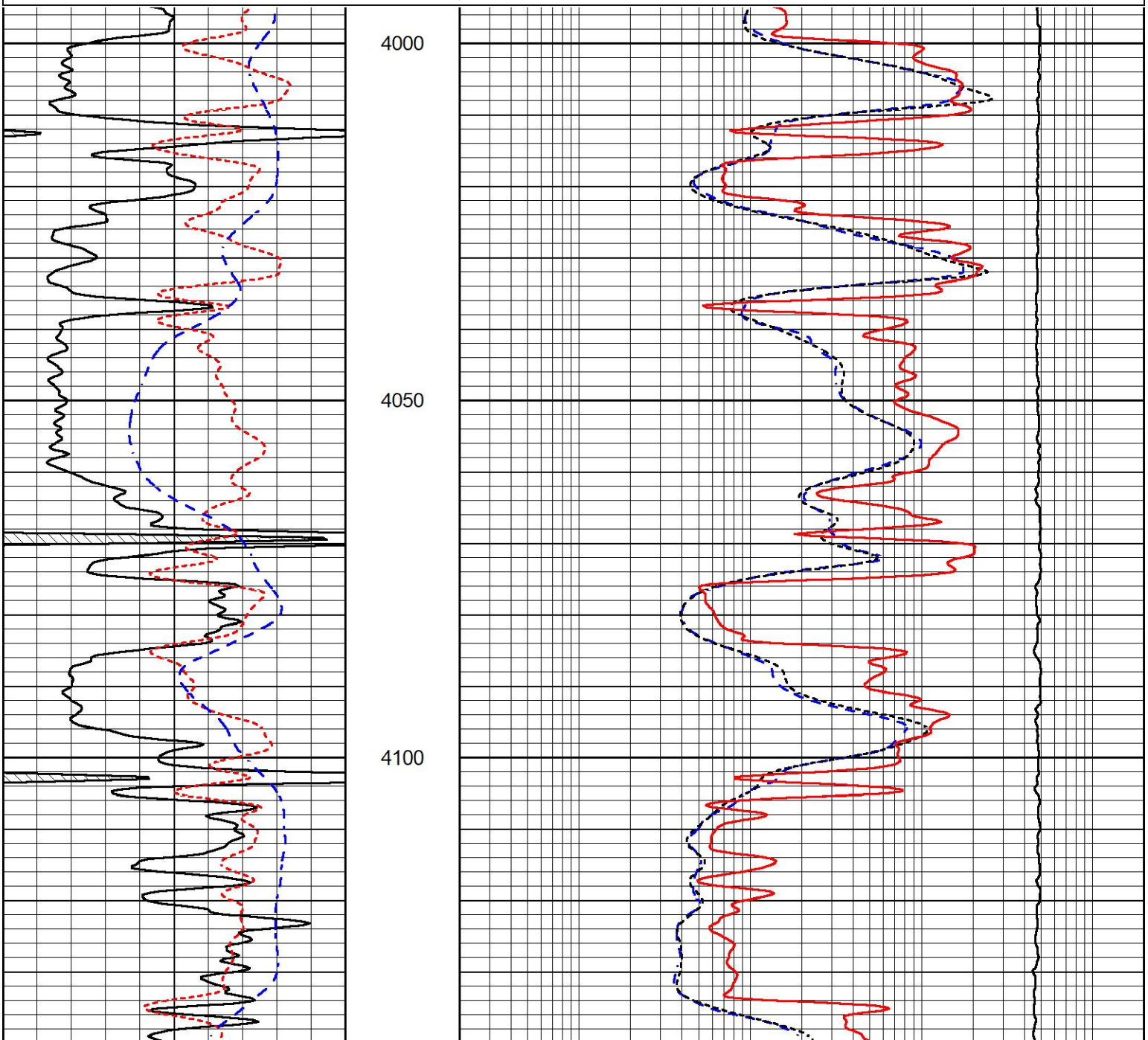
MIDWEST WIRELINE

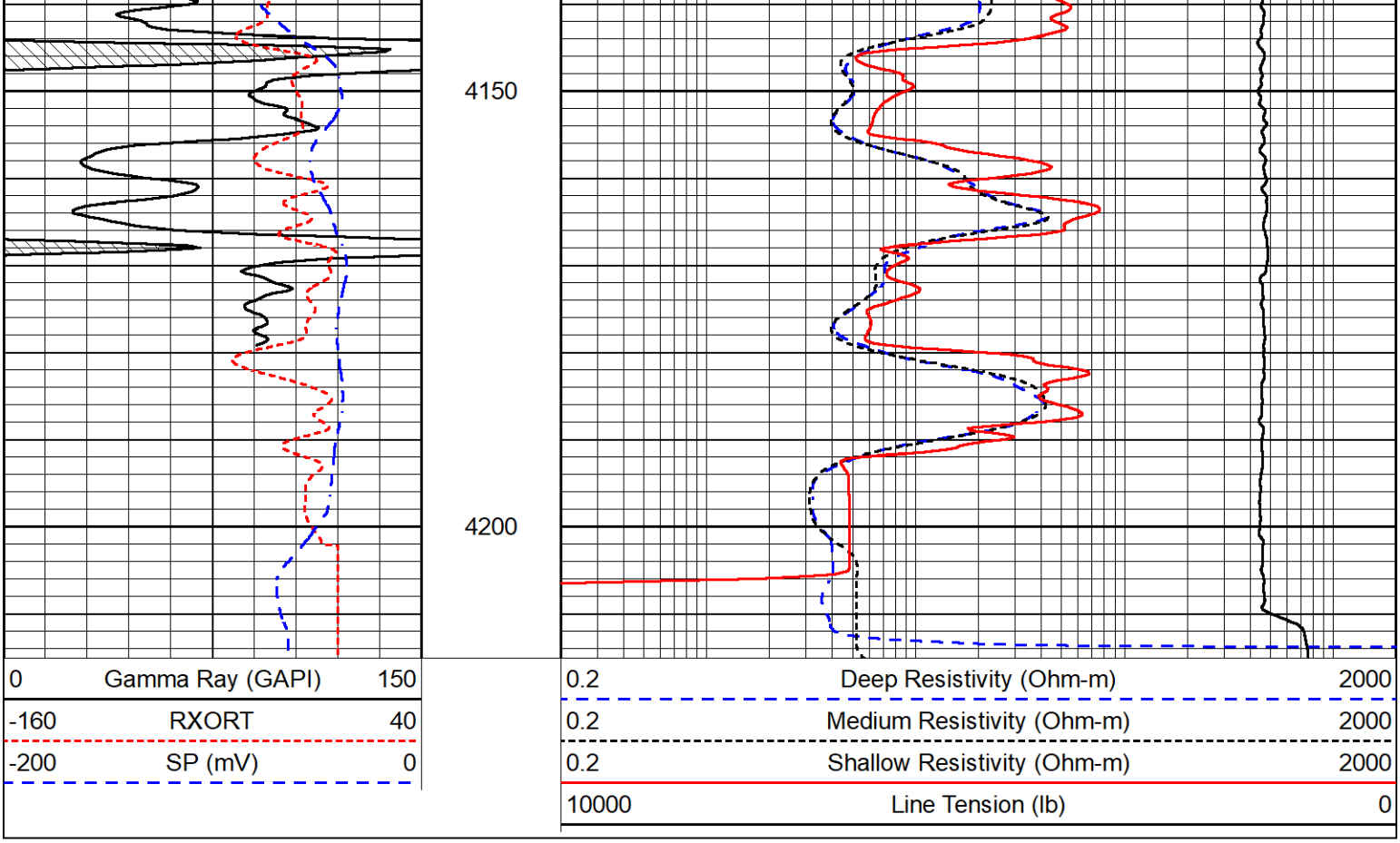
REPEAT SECTION

REPEAT PASS

Database File	castle_kennedy#1.db
Dataset Pathname	stkml/pass3.1
Presentation Format	_dil
Dataset Creation	Tue May 31 16:05:18 2022
Charted by	Depth in Feet scaled 1:240

0	Gamma Ray (GAPI)	150
-160	RXORT	40
-200	SP (mV)	0
0.2	Deep Resistivity (Ohm-m)	2000
0.2	Medium Resistivity (Ohm-m)	2000
0.2	Shallow Resistivity (Ohm-m)	2000
10000	Line Tension (lb)	0





Calibration Report

Database File	castle_kennedy#1.db
Dataset Pathname	stkml/pass4.15
Dataset Creation	Tue May 31 15:53:37 2022

Dual Induction Calibration Report

Serial-Model:	502 HT-M&W
Surface Cal Performed:	Wed Feb 9 17:39:00 2022

	Readings		References			Results	
Loop:	Air	Loop	Air	Loop		m	b
Deep	83.639	487.104	0.000	183.000	mmho/m	0.454	-38.000
Medium	113.335	1585.690	0.000	442.000	mmho/m	0.350	-10.000

Microlog Calibration Report

Serial-Model:	402-PSIML
Performed:	Mon Jan 24 20:31:16 2022

	Readings		References			Results	
	Zero	Cal	Zero	Cal		m	b
Normal	0.0000	1.0000	0.0000	1.0000	Ohm-m	21000.0000	-0.8000
Inverse	0.0000	1.0000	0.0000	1.0000	Ohm-m	20000.0000	0.0000
Caliper	1.0052	1.0858	5.0000	16.5000	in	65.0000	-59.8000

Compensated Density Calibration Report

Serial-Model:	305-05-M&W
Source #:	20762B

Master Calibration Performed:	Fri Apr 22 07:18:08 2022

Master Calibration

	Density		Far Detector	Near Detector	
Magnesium	1.755	g/cc	8862.47	9339.96	cps
Aluminum	2.600	g/cc	1556.73	5707.29	cps

Spine Angle = 74.19 Density/Spine Ratio = 0.467

	Size		Reading
Small Ring	4.00	in	1.74
Large Ring	14.00	in	1.38

Compensated Neutron Calibration Report

Serial-Model:	207-MW-M&W
Source #:	100046B
Master Calibration Performed:	Mon Nov 29 15:06:24 2021

Master 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:	101	
Tool Model:	M&W	
Performed:	Mon Jan 24 19:14:46 2022	
Calibrator Value:	500.0	GAPI
Background Reading:	24.0	cps
Calibrator Reading:	637.0	cps
Sensitivity:	0.5500	GAPI/cps

MIDWEST WIRELINE

Company	Castle Resources Inc.
Well	Kennedy #1
Field	
County	Sheridan
State	Kansas