SUPERIOR WELL SERVICES

SUPERIOR
Hays, Kansas

DUAL INDUCTION LOG

Company BEREXCO, LLC
Well CHRISTIE #1-35
Field
County HODGEMAN State KANSAS

Location: API # : 15-083-21640-0000
1963' FSL & 1535' FWL
SW - NE - SW
SEC 35 TWP 21S RGE 23W

Other Services
CDL/CNL
MEL/SON

Permanent Datum GROUND LEVEL Elevation 2288
Log Measured From KELLY BUSHING 13' A.G.L.
Drilling Measured From KELLY BUSHING

Elevation
K.B. 2301
D.F. 2299
G.L. 2288

Company BEREXCO, LLC
Well CHRISTIE #1-35
Field
County HODGEMAN
State KANSAS

Date	5-15-10		
Run Number	ONE		
Depth Driller	4650		
Depth Logger	4655		
Bottom Logged Interval	4653		
Top Log Interval	0		
Casing Driller	290		
Casing Logger	288		
Bit Size	7.875		
Type Fluid in Hole	CHEMICAL MUD		
Density / Viscosity	9.2 / 58	CHLORIDES 12,000	
pH / Fluid Loss	9.5 / 16.0		
Source of Sample	FLOWLINE		
Rm @ Meas. Temp	1.60 @ 78F		
Rmf @ Meas. Temp	1.20 @ 78F		
Rmc @ Meas. Temp	1.92 @ 78F		
Source of Rmf / Rmc	MEASURED		
Rm @ BHT	1.02 @ 122F		
Time Circulation Stopped	2 HOURS		
Time Logger on Bottom			
Maximum Recorded Temperature	122F		
Equipment Number	860		
Location	HAYS, KS.		
Recorded By	JEFF GRONEWEG		
Witnessed By	"G" KORALEGEDARA		

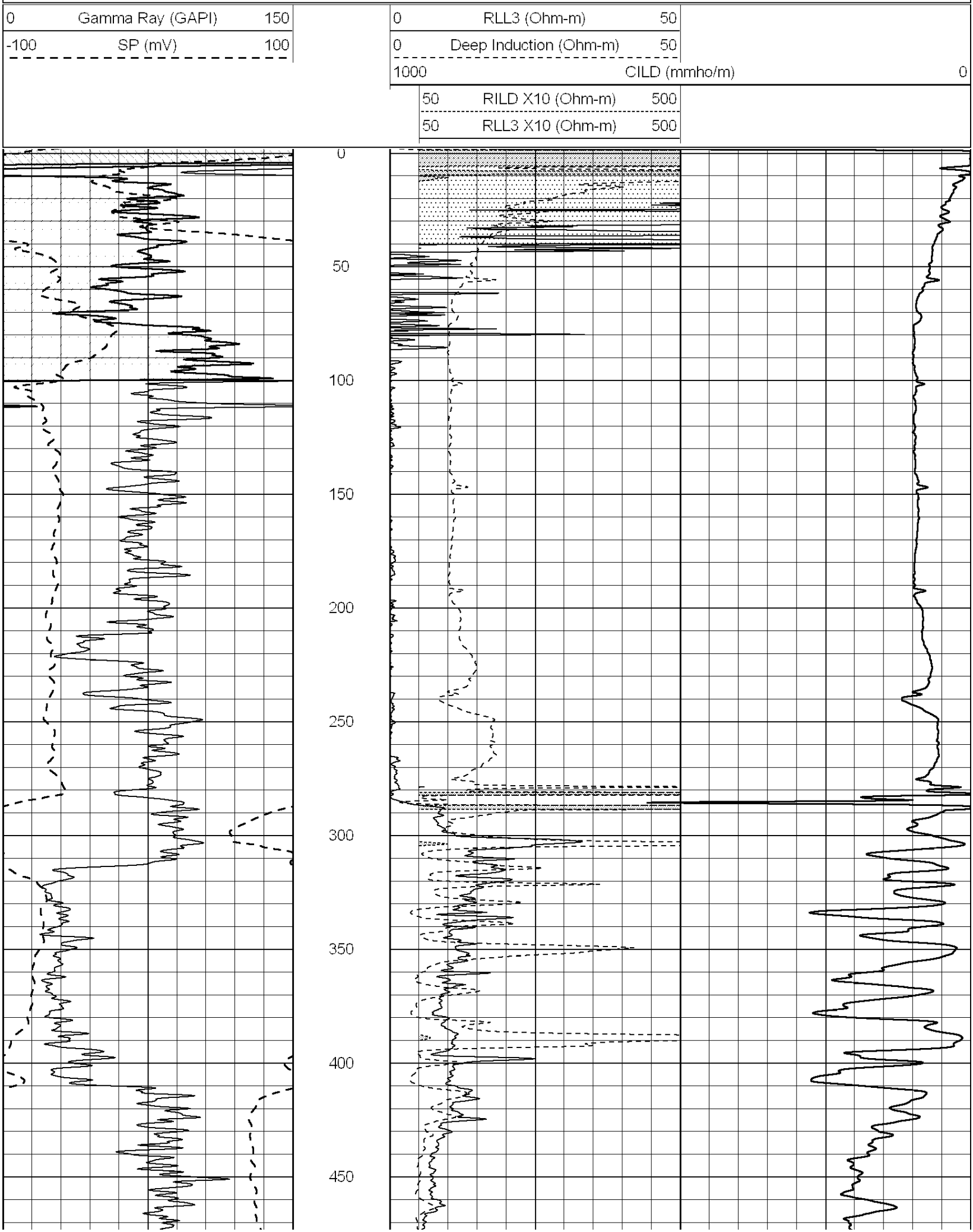
<<< Fold Here >>>

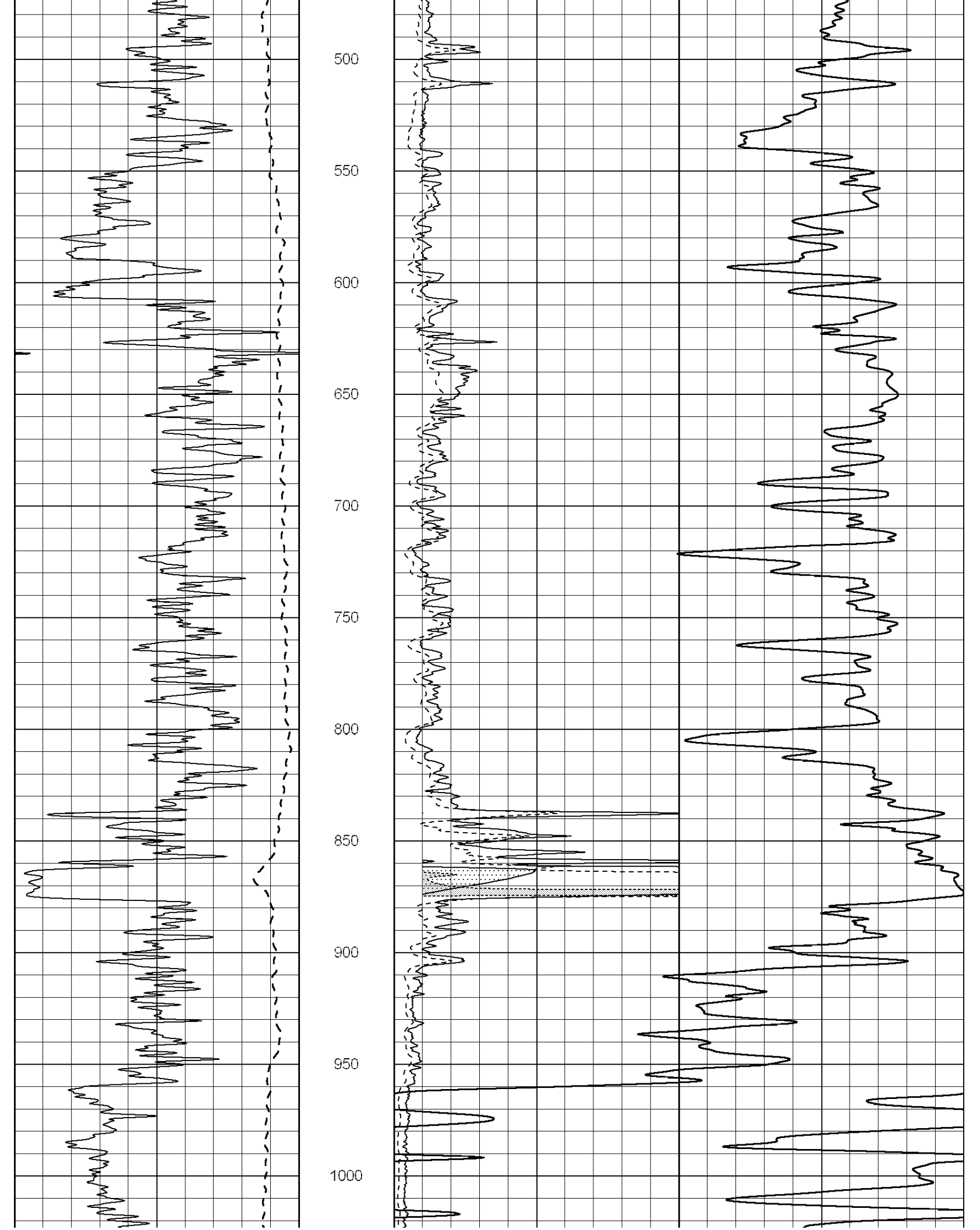
Comments

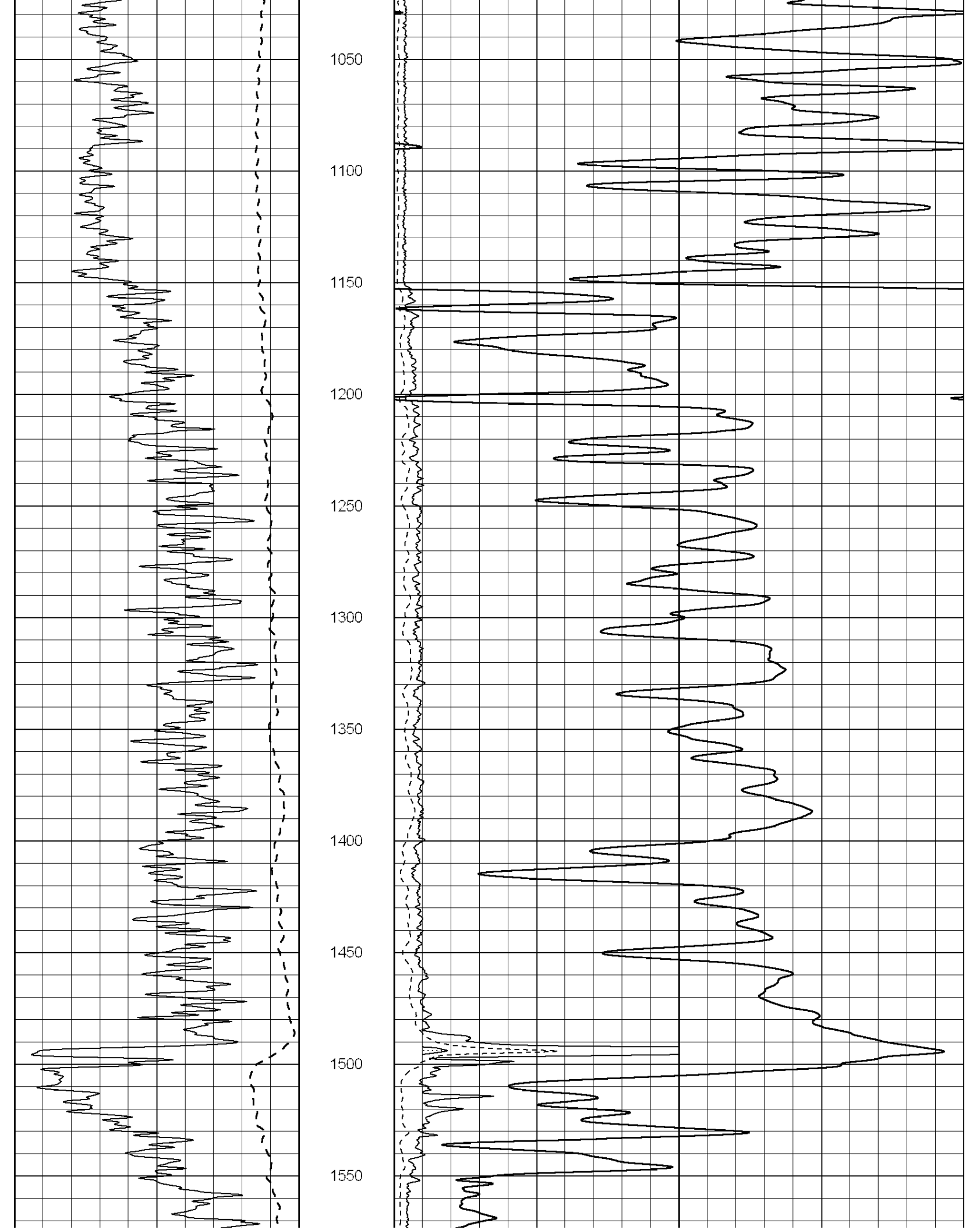
SUPERIOR WELL SERVICES
785-628-6395
THANK YOU FOR YOUR BUSINESS
DIRECTIONS: JETMORE, KS - 6 MILES NORTH TO RD S - 4 MILES EAST
NORTH INTO

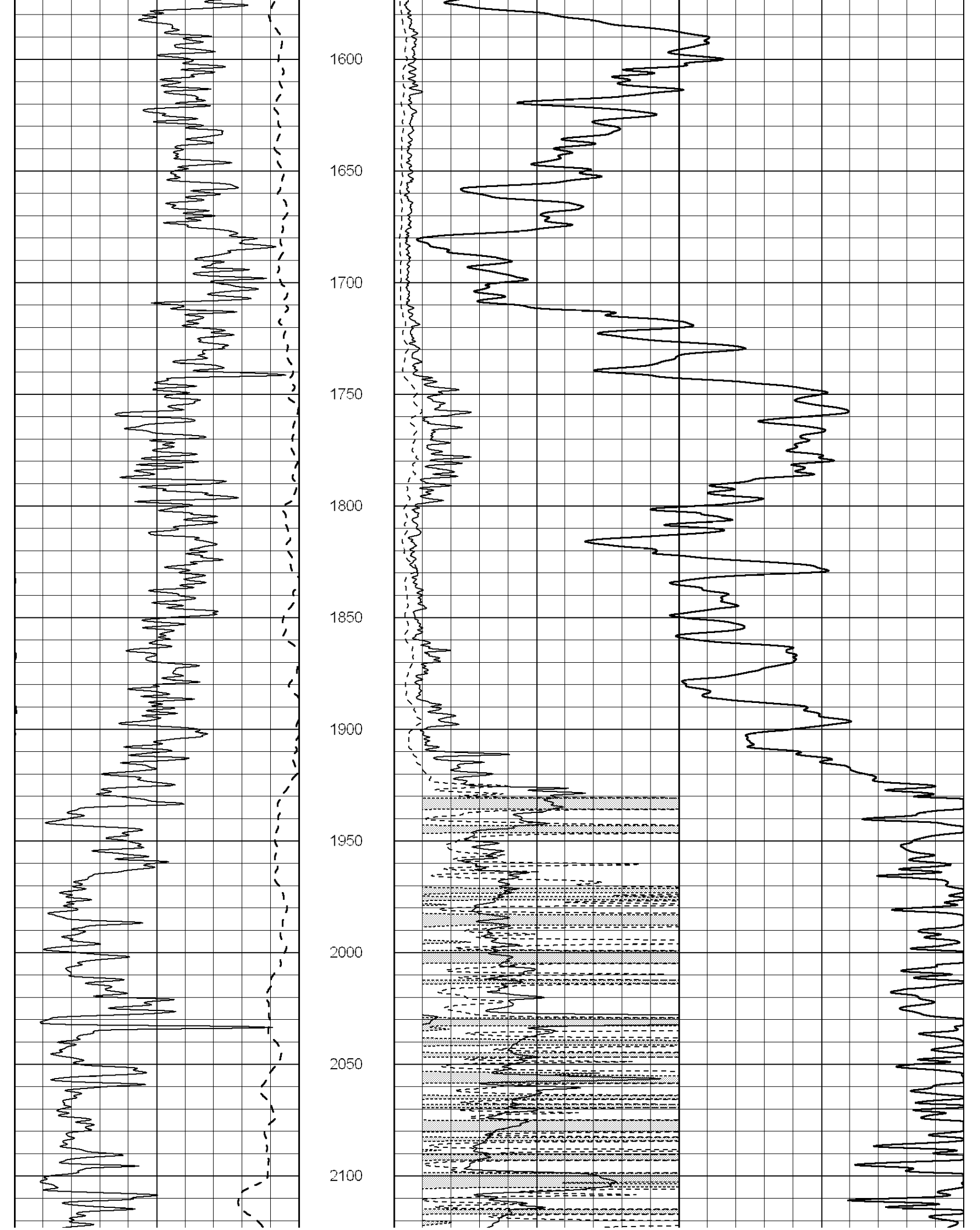
Database File: 005193ddn.db
Dataset Pathname: pass5.3
Presentation Format: dil2
Dataset Creation: Sat May 15 12:56:44 2010 by Calc Open-Cased 090629

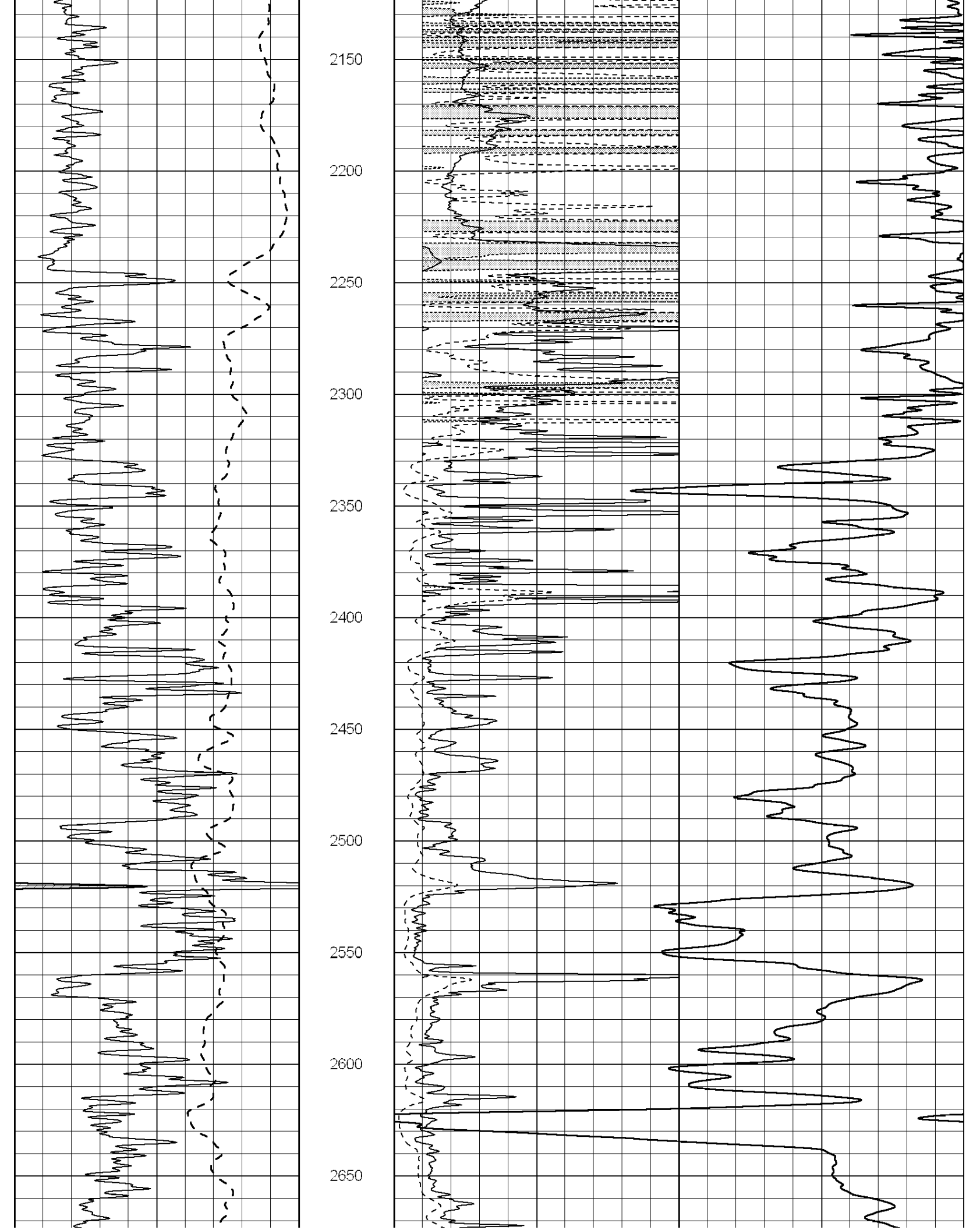
Charted by: Depth in Feet scaled 1:600

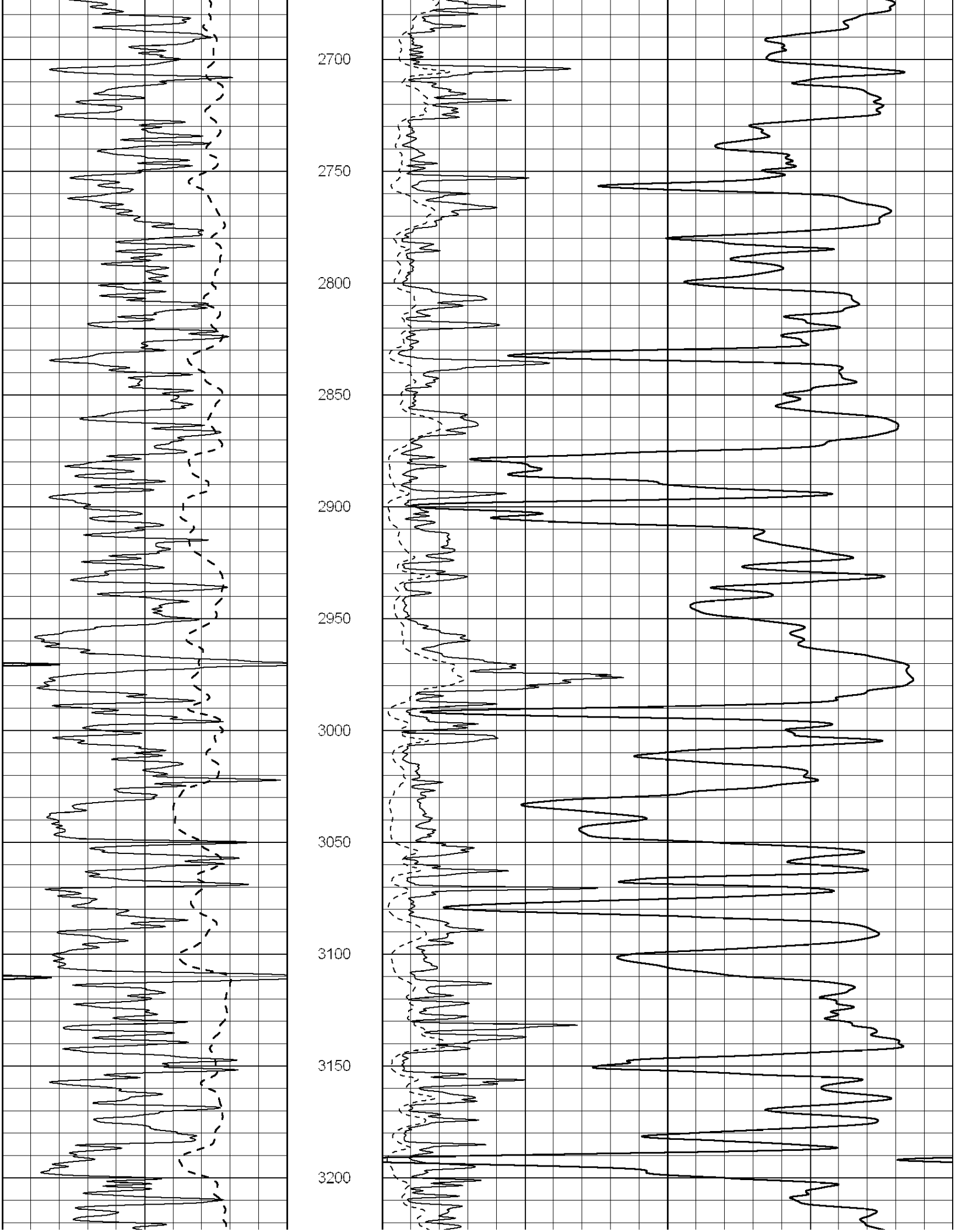


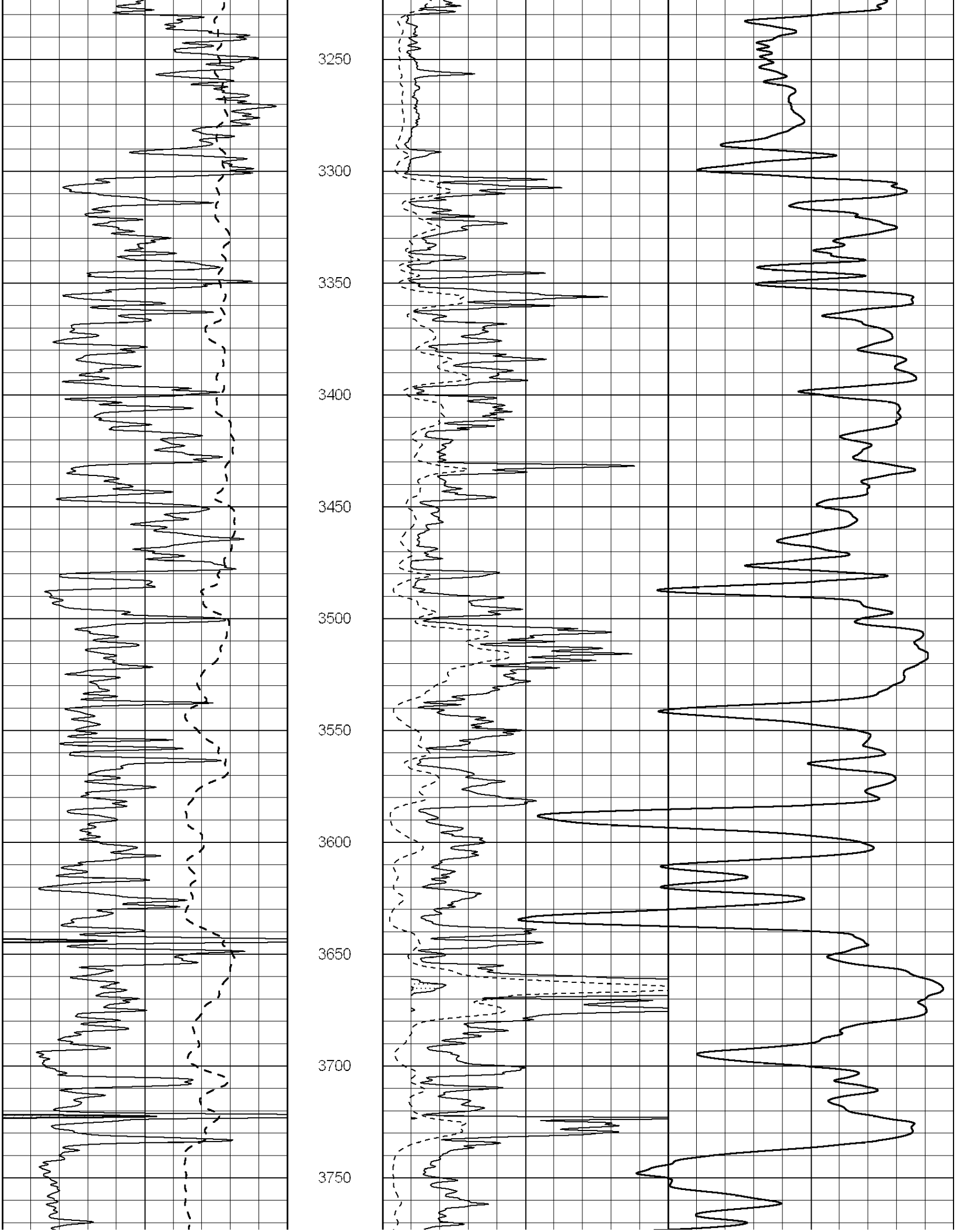

500
550
600
650
700
750
800
850
900
950
1000

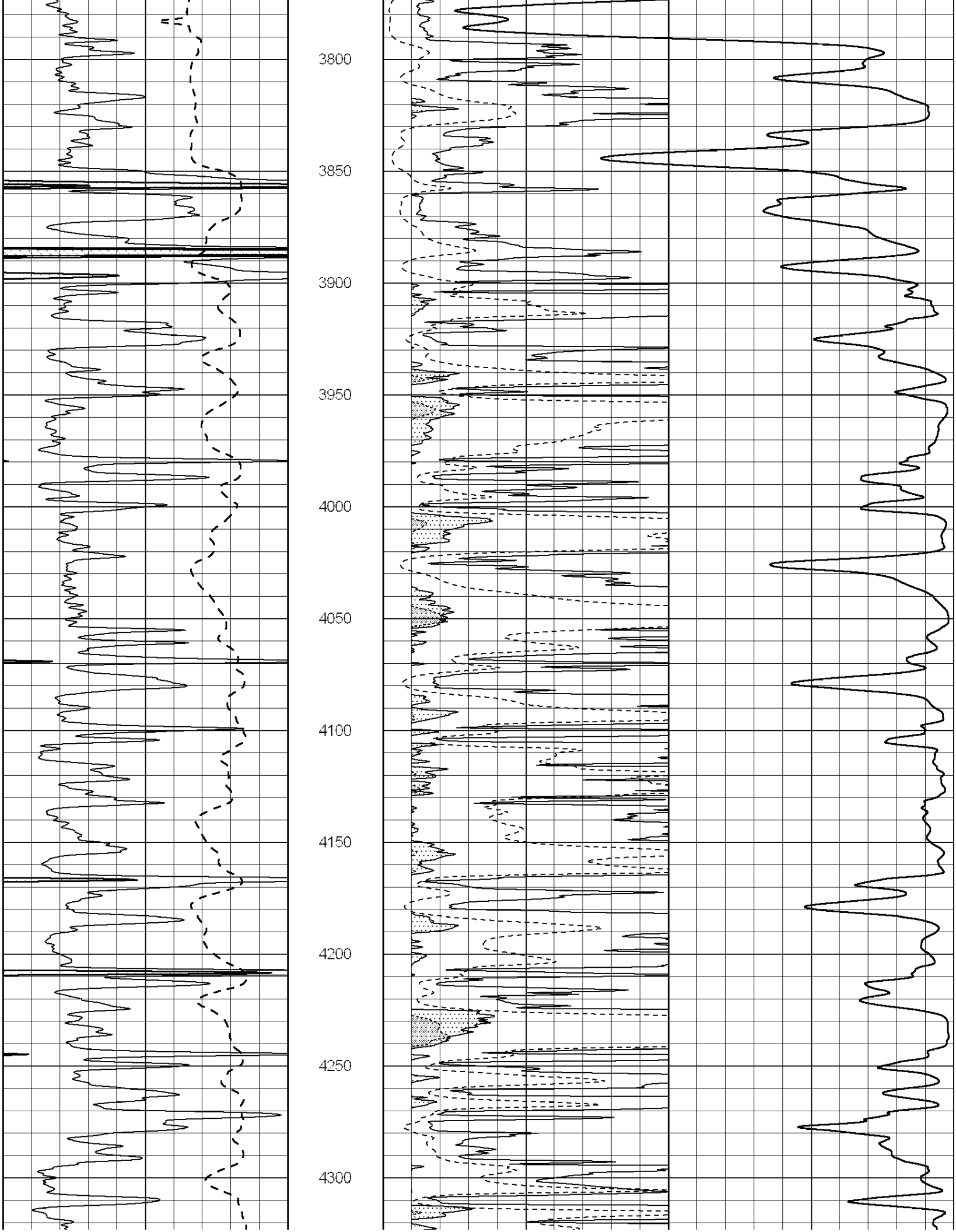

1050
1100
1150
1200
1250
1300
1350
1400
1450
1500
1550

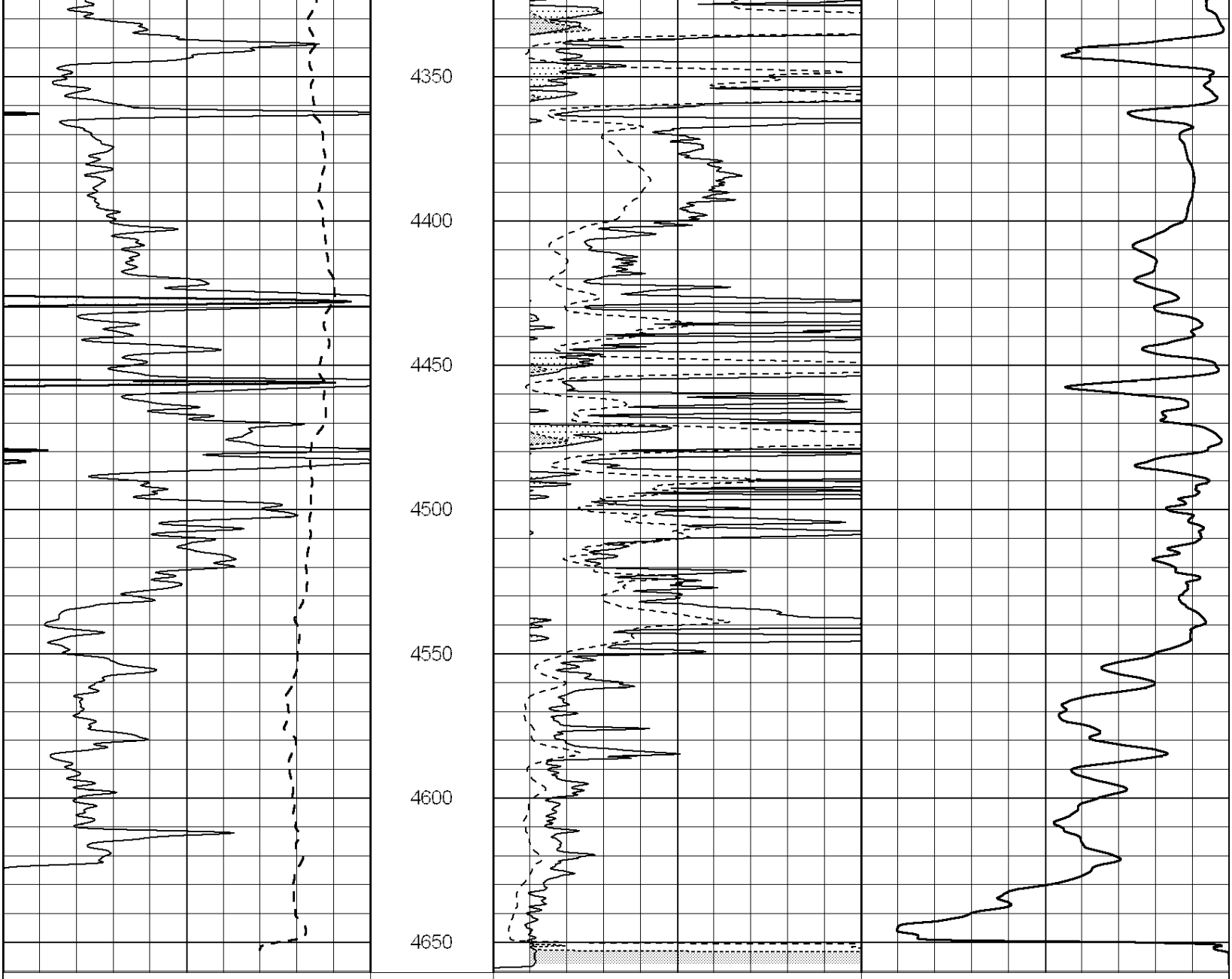

1600
1650
1700
1750
1800
1850
1900
1950
2000
2050
2100


2150
2200
2250
2300
2350
2400
2450
2500
2550
2600
2650

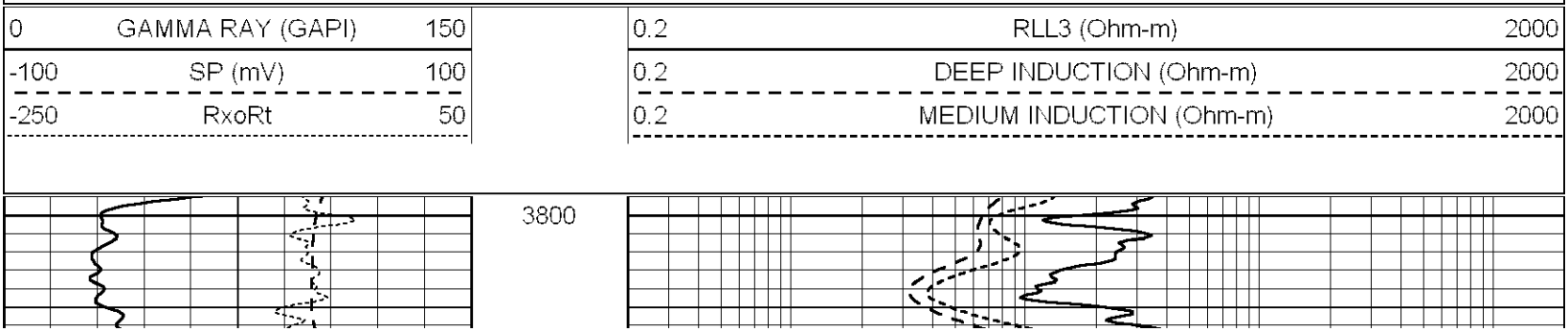

2700
2750
2800
2850
2900
2950
3000
3050
3100
3150
3200

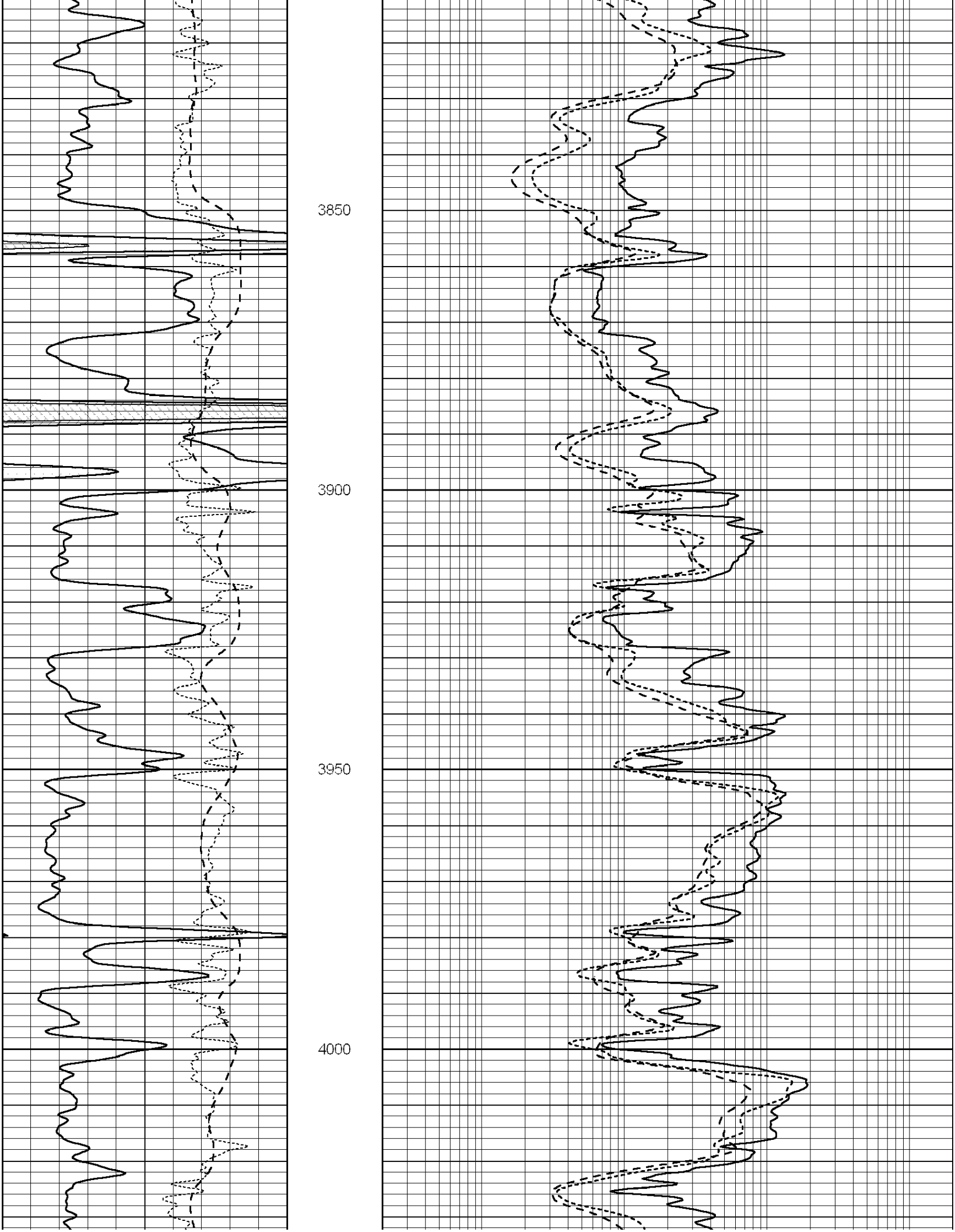

3250
3300
3350
3400
3450
3500
3550
3600
3650
3700
3750

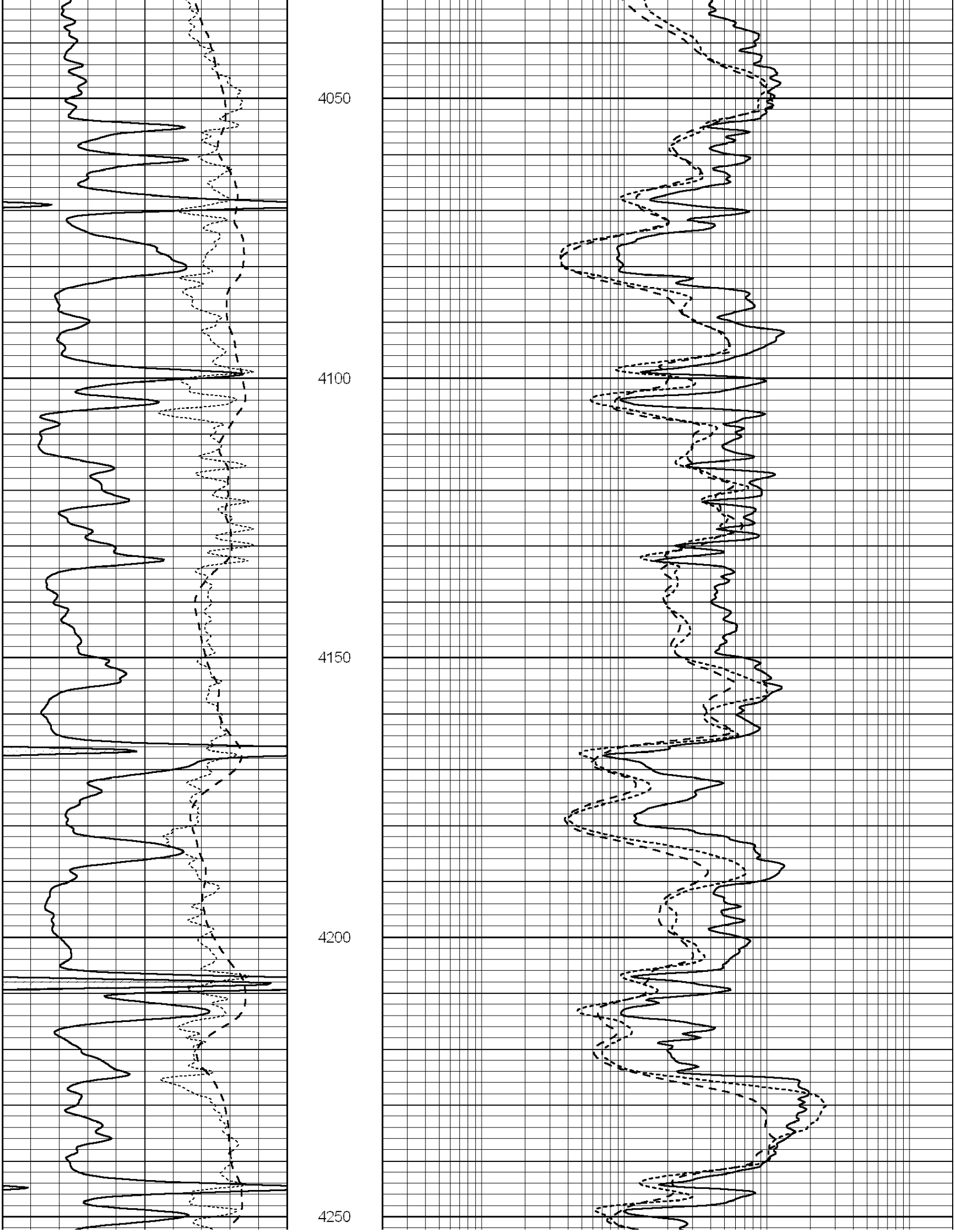

3800
3850
3900
3950
4000
4050
4100
4150
4200
4250
4300

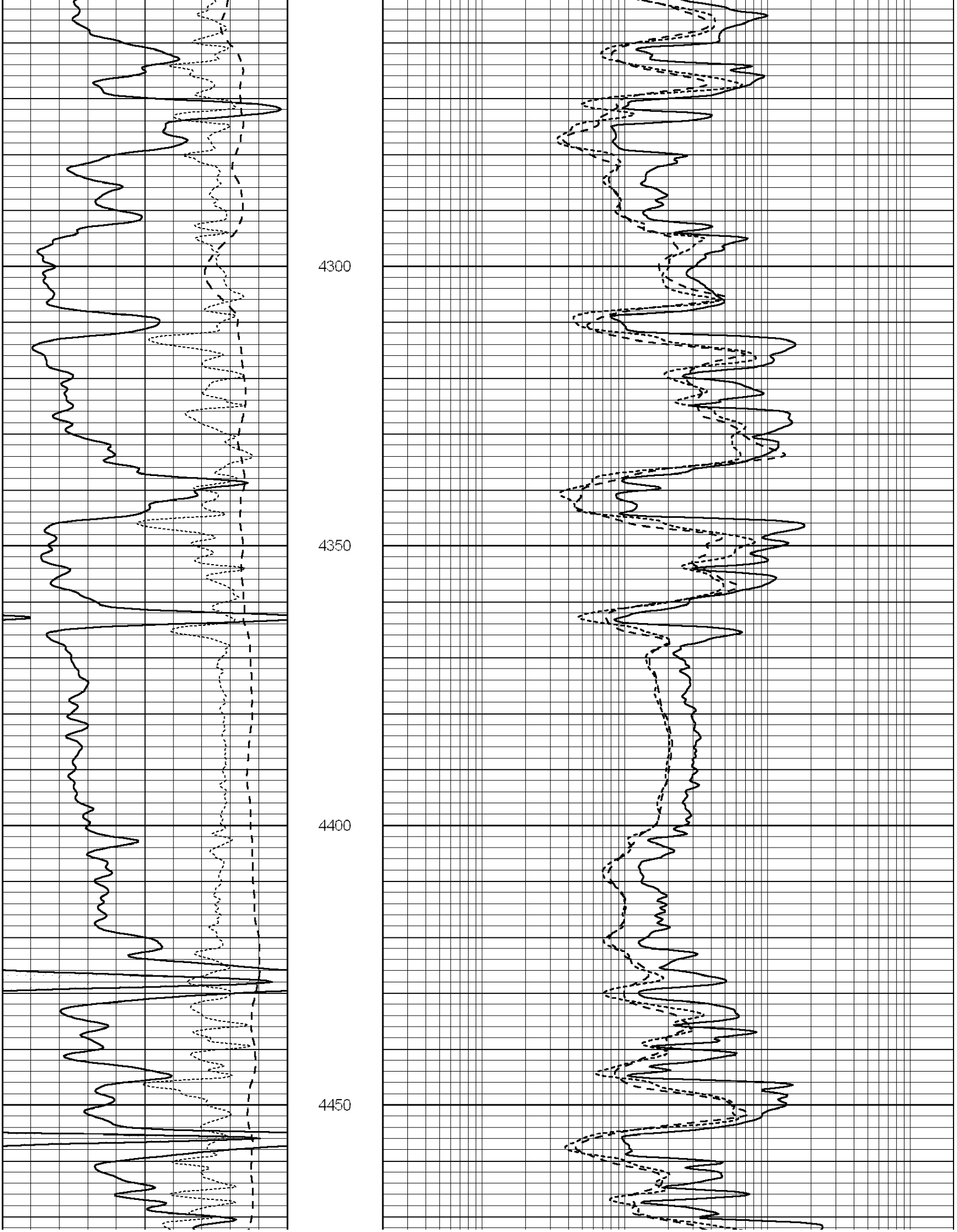


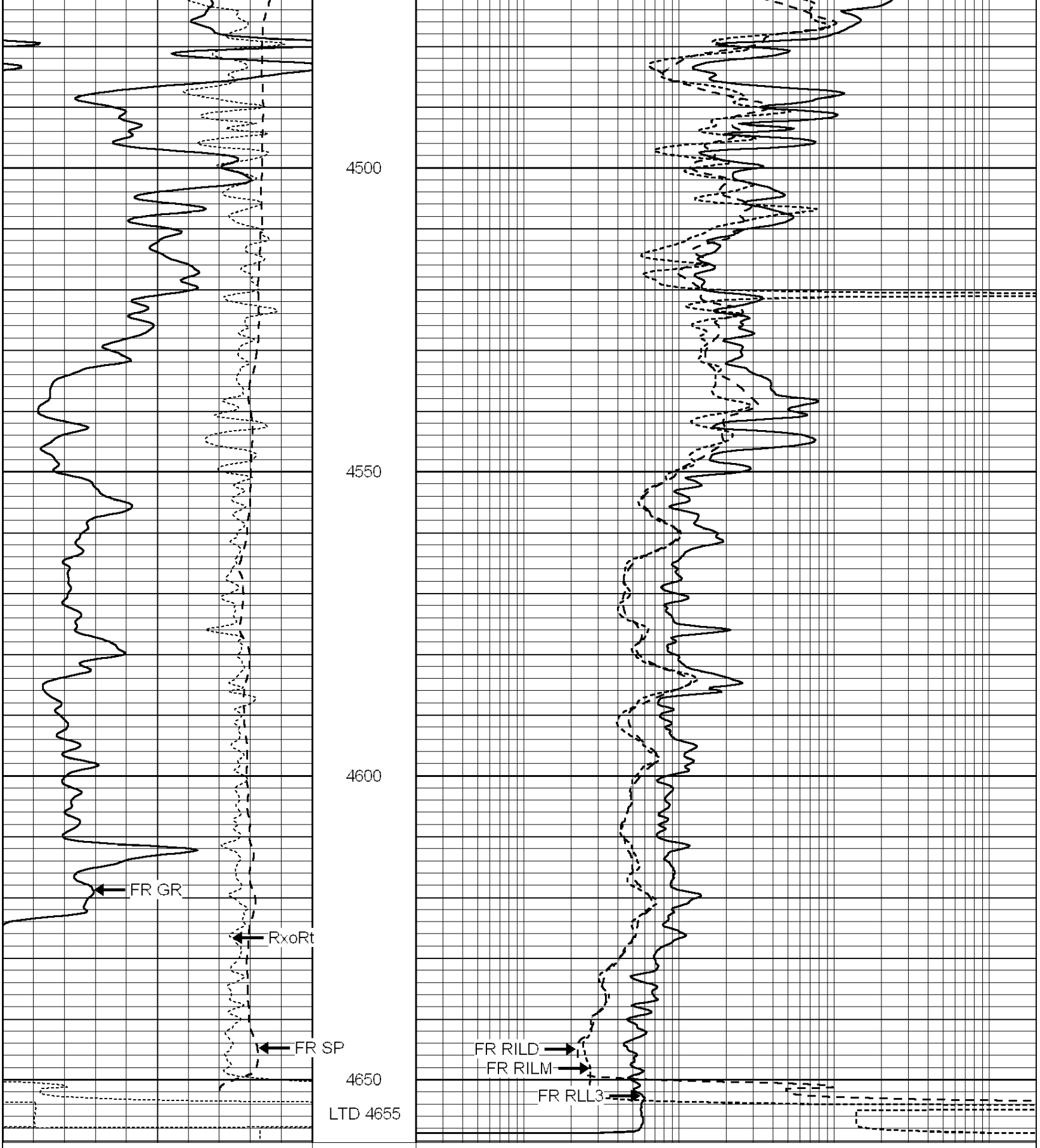
Database File: 005193ddn.db
Dataset Pathname: pass5.2.3
Presentation Format: dil
Dataset Creation: Sat May 15 11:51:43 2010 by Calc Open-Cased 090629
Charted by: Depth in Feet scaled 1:240




3850
3900
3950
4000


4050
4100
4150
4200
4250


4300
4350
4400
4450


4500
4550
4600
4650
FR GR
RxoRt
FR SP
FR RILD
FR RILM
FR RLL3
LTD 4655
0 GAMMA RAY (GAPI) 150
-100 SP (mV) 100
-250 RxoRt 50
0.2 RLL3 (Ohm-m) 2000
0.2 DEEP INDUCTION (Ohm-m) 2000
0.2 MEDIUM INDUCTION (Ohm-m) 2000

SUPERIOR

SUPERIOR WELL SERVICES

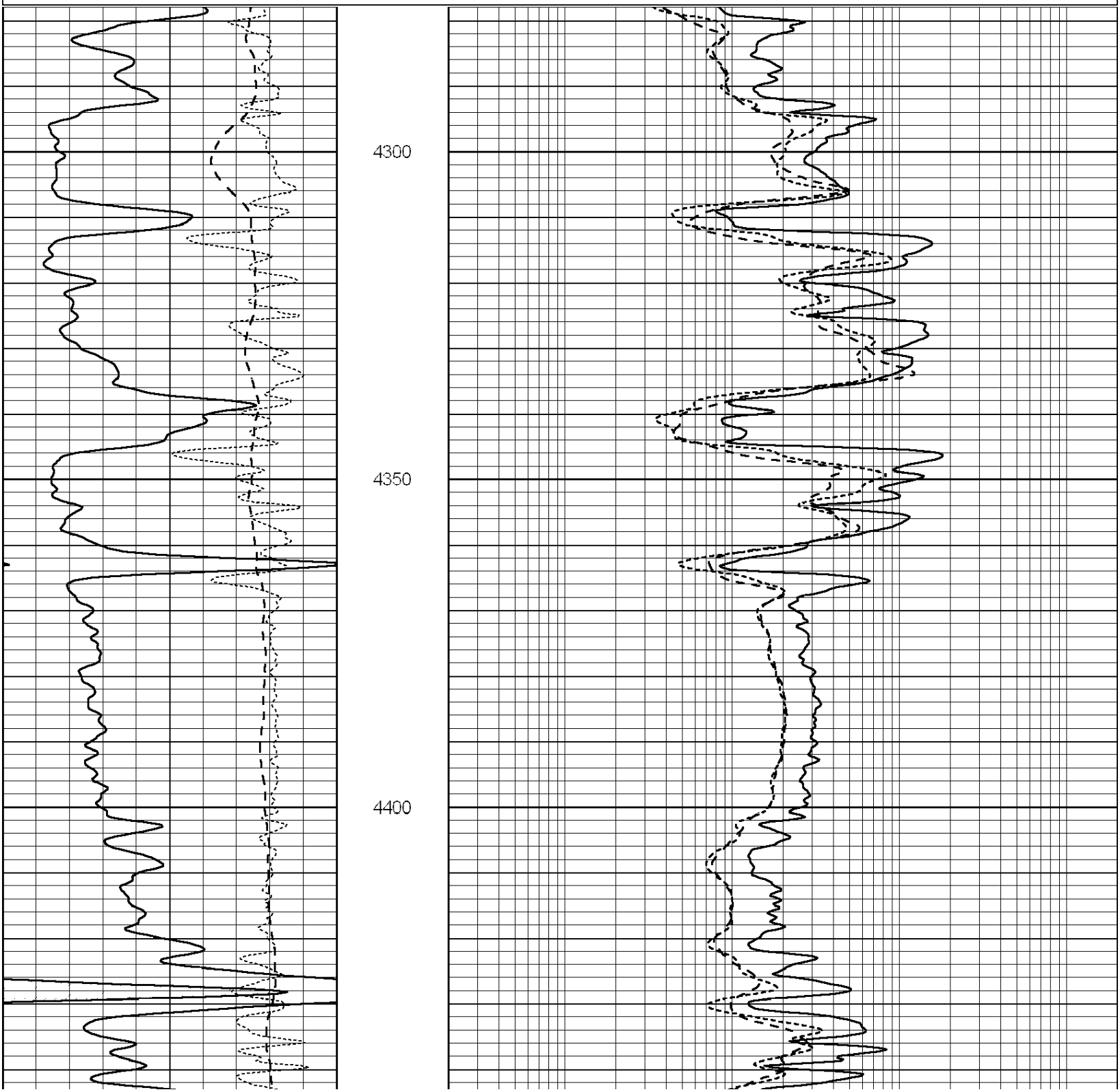
SUPERIOR
Hays,
Kansas

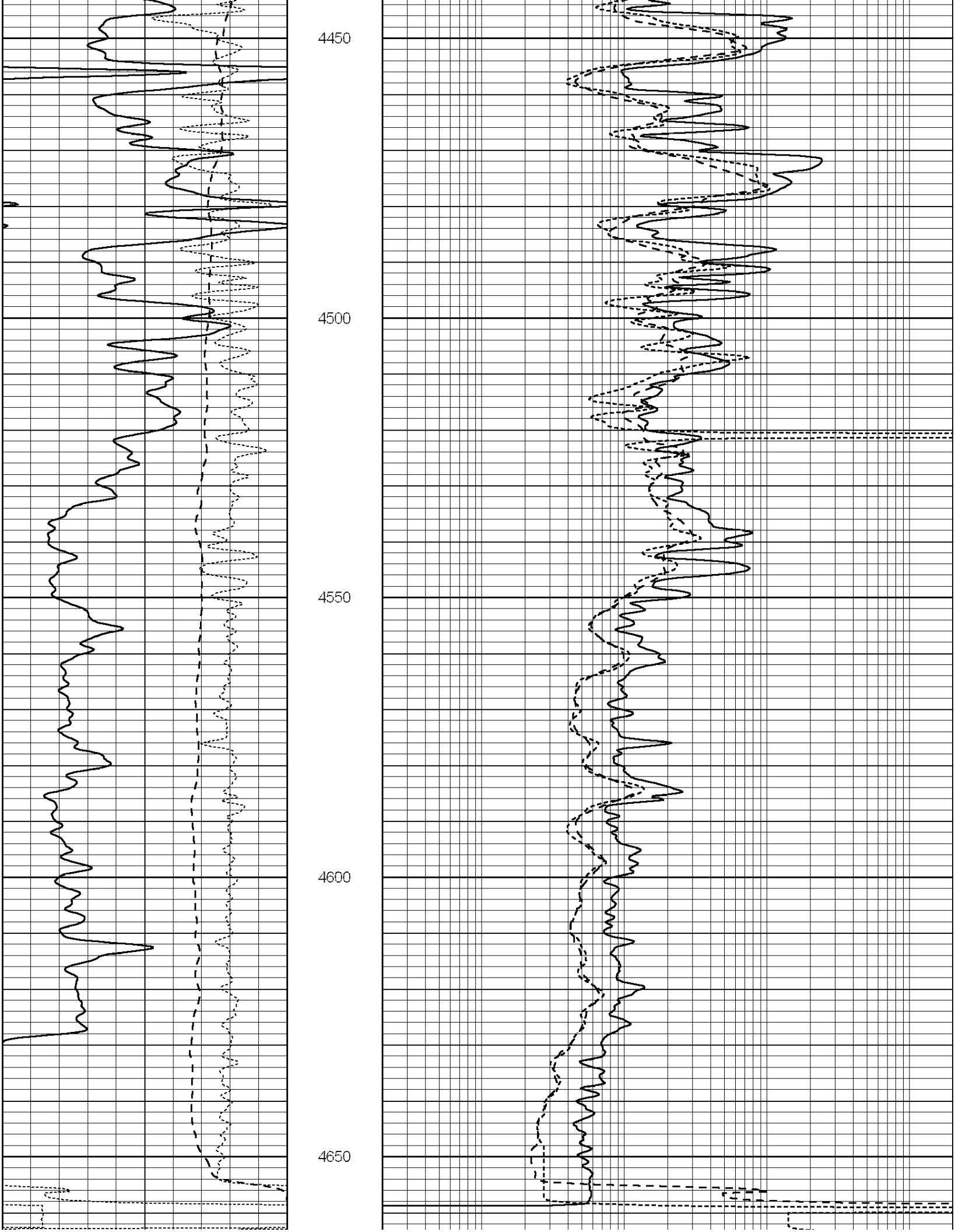
REPEAT SECTION

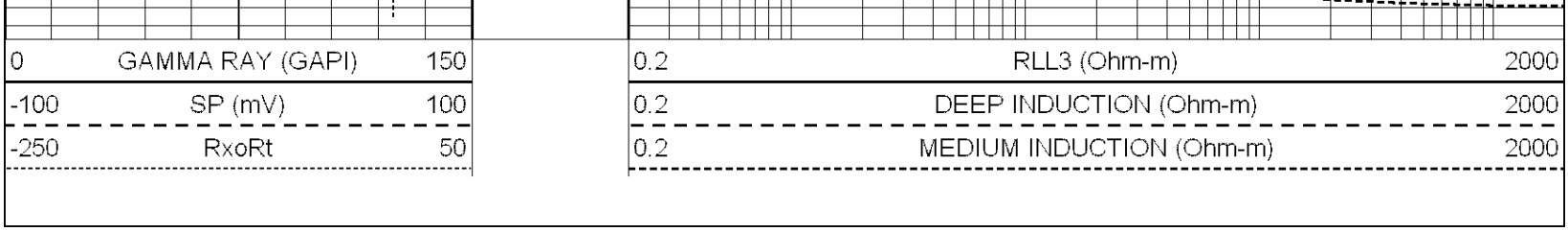
Database File:	005193ddn.db
Dataset Pathname:	pass4.4
Presentation Format:	dil
Dataset Creation:	Sat May 15 13:53:07 2010
Charted by:	Depth in Feet scaled 1:240

0	GAMMA RAY (GAPI)	150
-100	SP (mV)	100
-250	RxoRt	50

0.2	RLL3 (Ohm-m)	2000
0.2	DEEP INDUCTION (Ohm-m)	2000
0.2	MEDIUM INDUCTION (Ohm-m)	2000




4450
4500
4550
4600
4650



Calibration Report

Database File: 005193ddn.db
Dataset Pathname: pass5.3
Dataset Creation: Sat May 15 12:56:44 2010 by Calc Open-Cased 090629

Dual Induction Calibration Report

Serial-Model: DIL5-GEAR
Performed: Wed May 12 00:24:58 2010

	Readings			References			Results	
Loop:	Air	Loop		Air	Loop		m	b
Deep	0.004	0.654	V	0.000	400.000	mmho/m	550.000	-10.000
Medium	-0.005	0.737	V	0.000	462.500	mmho/m	520.000	-12.000
Internal:	Zero	Cal		Zero	Cal		m	b
Deep	0.006	0.655	V	0.000	400.000	mmho/m	615.668	-3.483
Medium	0.010	0.747	V	0.000	462.500	mmho/m	627.607	-6.064

Compensated Density Calibration Report

Serial-Model: GEAR1-GEARHART
Source / Verifier: 147 / 147
Master Calibration Performed: Thu May 13 22:22:01 2010

Master Calibration

	Density		Far Detector	Near Detector	
Magnesium	1.710	g/cc	1243.76	629.14	cps
Aluminum	2.570	g/cc	282.16	435.01	cps

Spine Angle = 76.03 Density/Spine Ratio = 0.563

	Size		Reading	
Small Ring	9.05	in	3.82	V
Large Ring	14.00	in	6.37	V

Compensated Neutron Calibration Report

Serial Number: NEU_1I
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

Gamma Ray Calibration Report

Serial Number: GR5
Tool Model: OPEN
Performed: Wed May 12 00:23:46 2010

Calibrator Value:	1.0	GAPI
Background Reading:	0.0	cps
Calibrator Reading:	1.0	cps
Sensitivity:	0.6200	GAPI/cps