



SUPERIOR
Hays,
Kansas

DUAL
INDUCTION
LOG

Company		DOWNING - NELSON OIL COMPANY, INC.	
Well		BEFORT #1-12	
Field		RIDGE HILL	
County		ELLIS	
State		KANSAS	
Location:		API # : 15-051-26132-0000	
Permanent Datum		GROUND LEVEL	
Log Measured From		KELLY BUSHING 8' A.G.L.	
Drilling Measured From		KELLY BUSHING	
SEC 12 TWP 14S RGE 19W		Elevation	
530' FSL & 1520' FWL		CDL/CNL	
		MEL/SON	
2170		Elevation	
K.B. 2178		D.F. 2176	
G.L. 2170			
Date	5/12/11		
Run Number	ONE		
Depth Driller	3925		
Depth Logger	3927		
Bottom Logged Interval	3925		
Top Log Interval	00		
Casing Driller	8 5/8" @ 220		
Casing Logger	220		
Bit Size	7 7/8		
Type Fluid in Hole	CHEMICAL MUD	CHLORIDES 6000 PPM	
Density / Viscosity	9.1/58		
pH / Fluid Loss	9.5/8.8		
Source of Sample	FLOWLINE		
Rim @ Meas. Temp	.56 @ 76F		
Rmf @ Meas. Temp	.42 @ 76F		
Rmc @ Meas. Temp	.67 @ 76F		
Source of Rmf / Rmc	MEASURED		
Rim @ BHT	.36 @ 116F		
Time Circulation Stopped	2 HOURS		
Time Logger on Bottom			
Maximum Recorded Temperature	116F		
Equipment Number	680		
Location	HAYS, KS.		
Recorded By	JASON CAPPELLUCCI		
Witnessed By	AL DOWNING	RON NELSON	

<<< 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 SUPERIOR WELL SERVICE (785) 628-6395
DIRECTIONS
HAYS KS. - TO GOLF COURSE RD. - W. TO RD 210 - 1 S - 1/2 E. - N. INTO



SUPERIOR
Hays,
Kansas

MAIN SECTION

Database File: 007061ddn.db
Dataset Pathname: pass5.2
Presentation Format: dil2
Dataset Creation: Thu May 12 20:44:53 2011 by Calc Open-Cased 090629
Charted by: Depth in Feet scaled 1:600

0 Gamma Ray (GAPI) 150
-100 SP (mV) 100

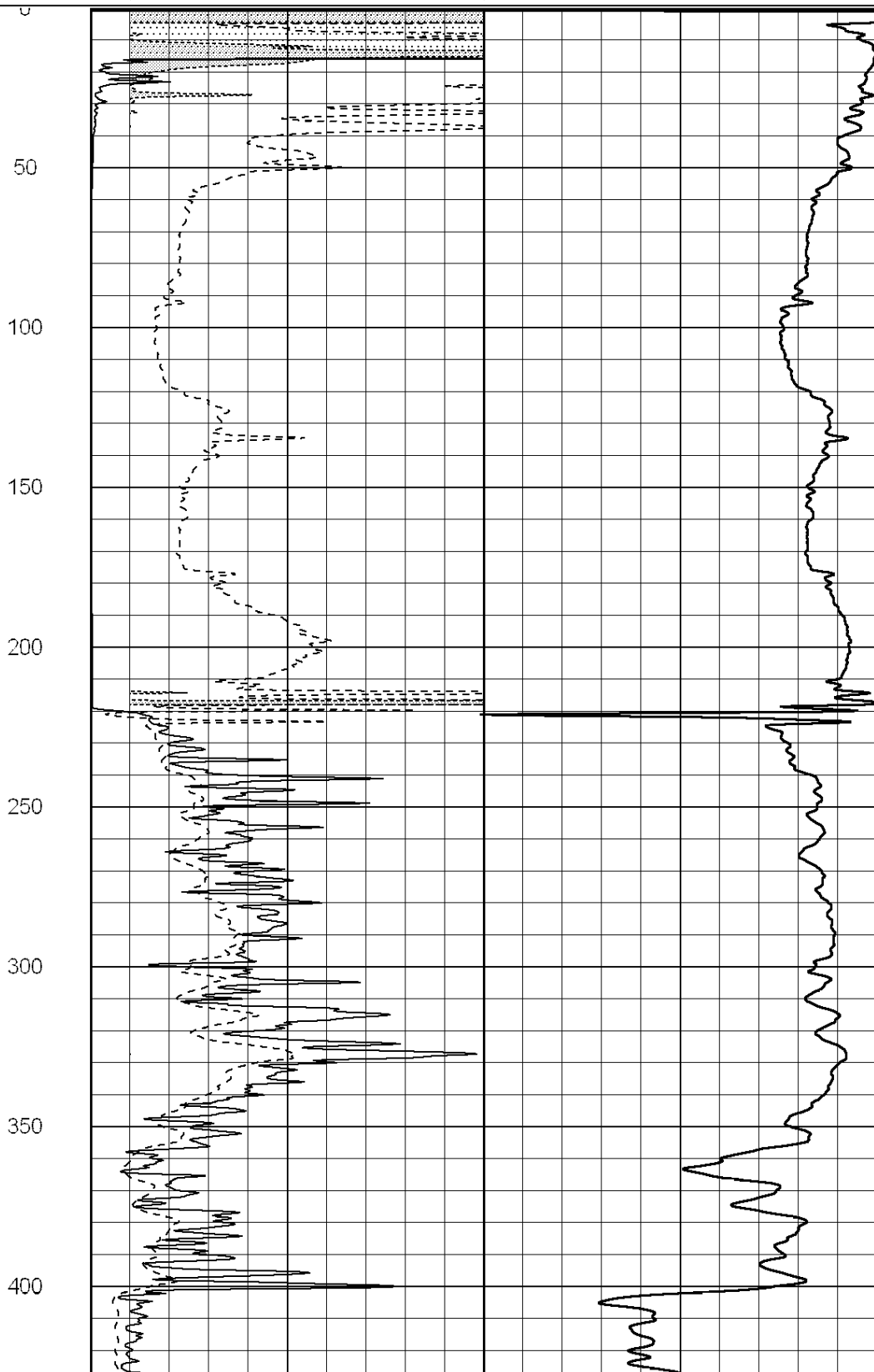
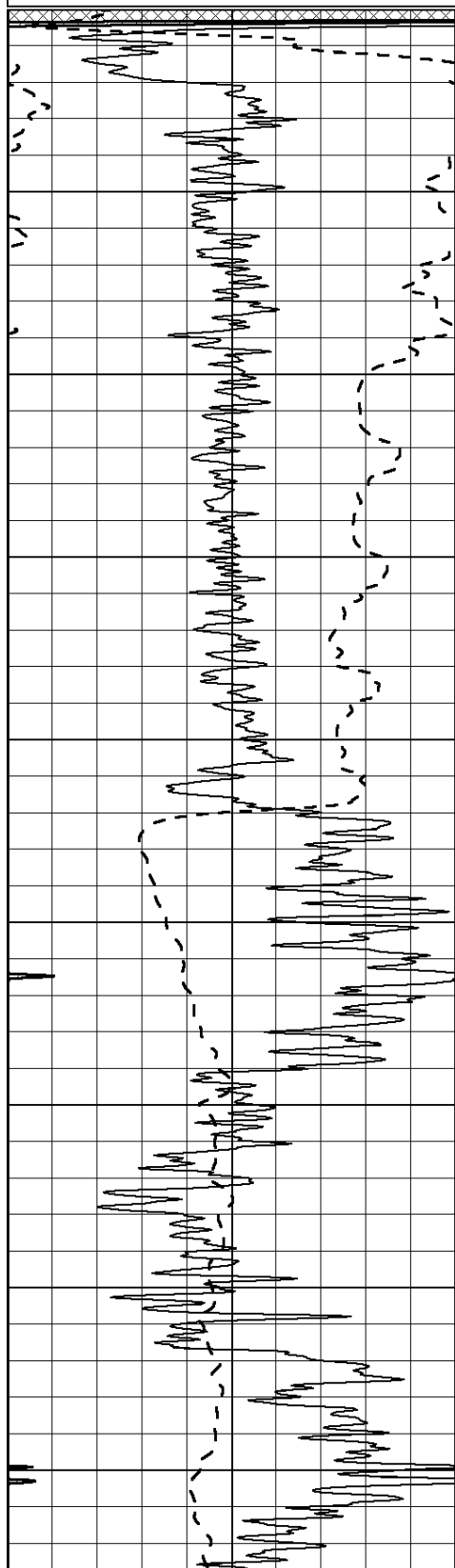
0 RLL3 (Ohm-m) 50

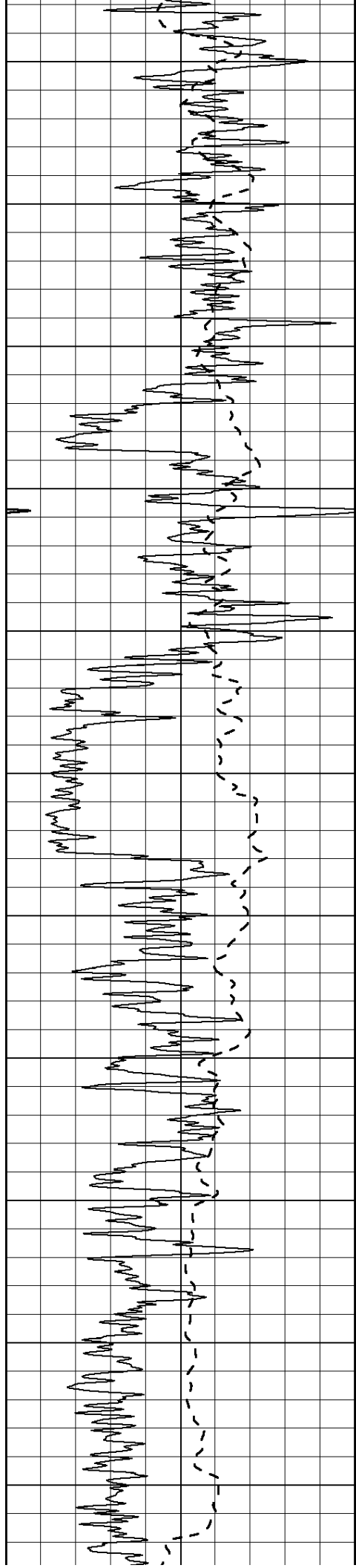
0 Deep Induction (Ohm-m) 50

1000 CILD (mmho/m) 0

50 RILD X10 (Ohm-m) 500

50 RLL3 X10 (Ohm-m) 500





450

500

550

600

650

700

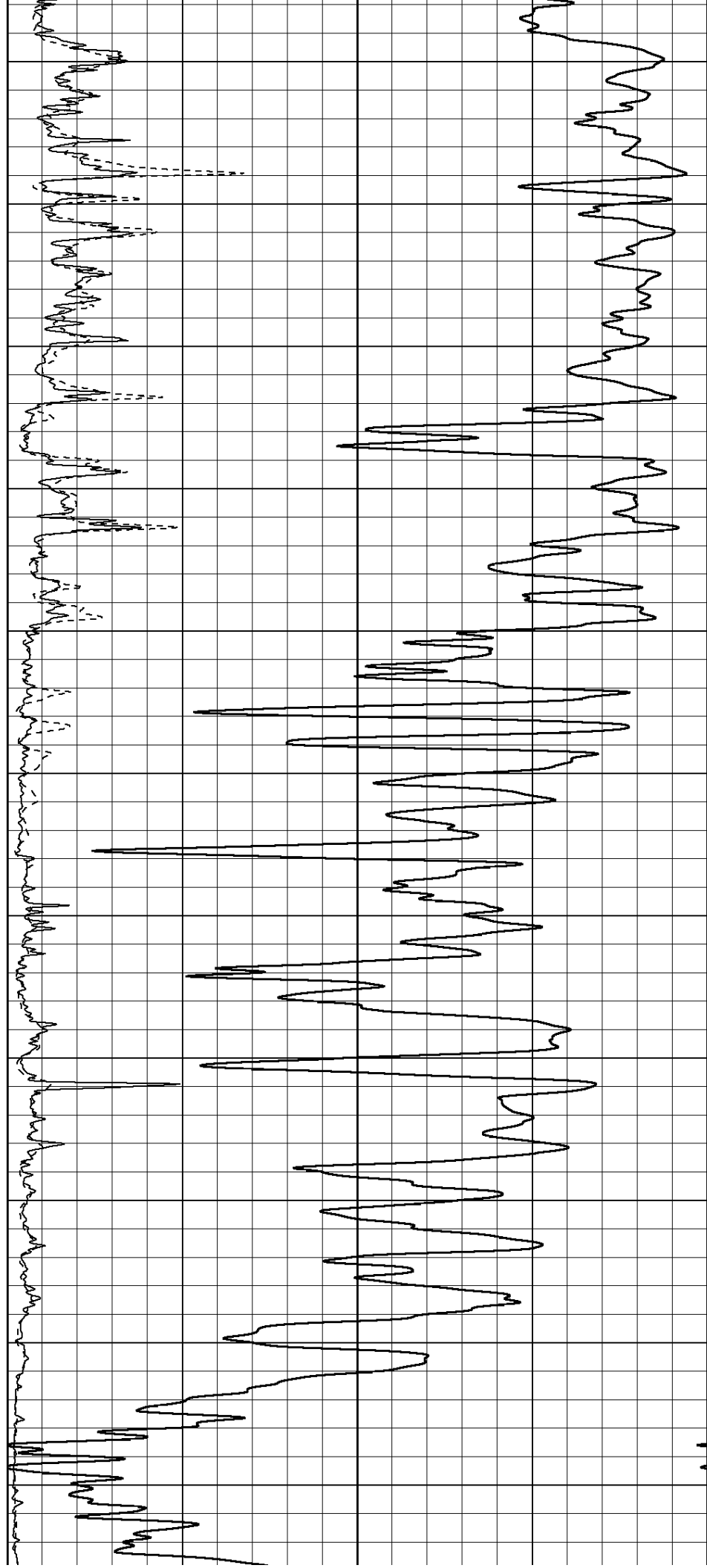
750

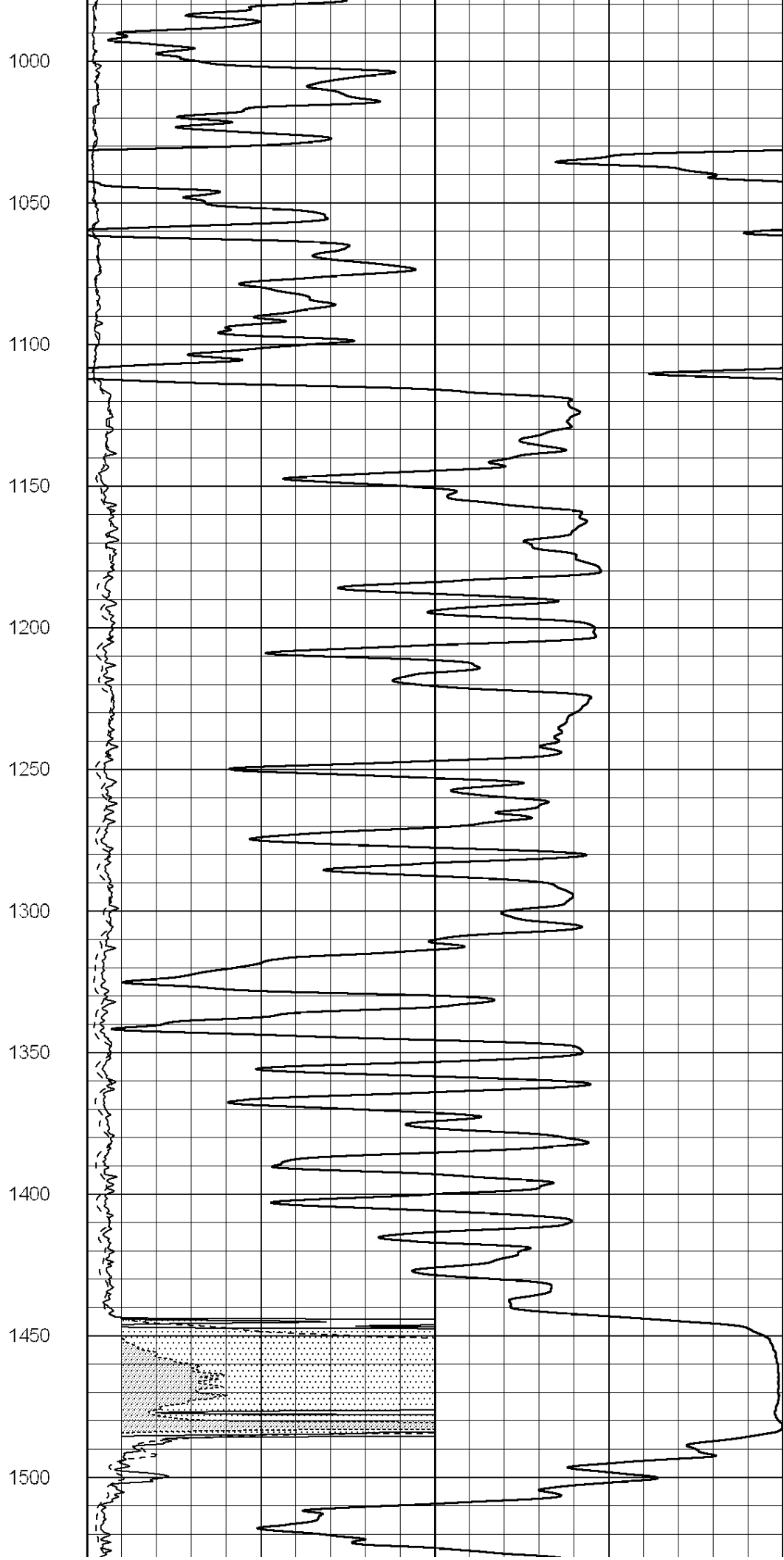
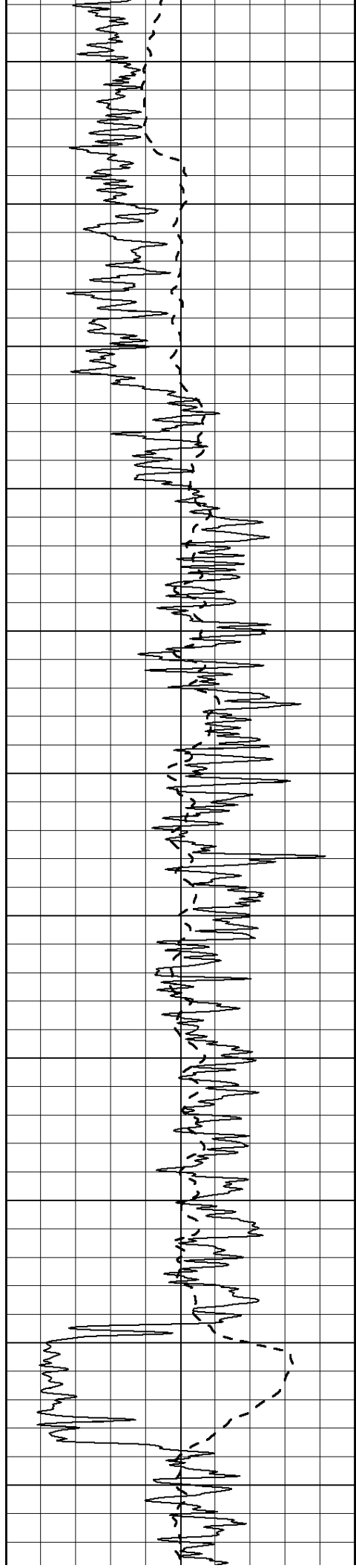
800

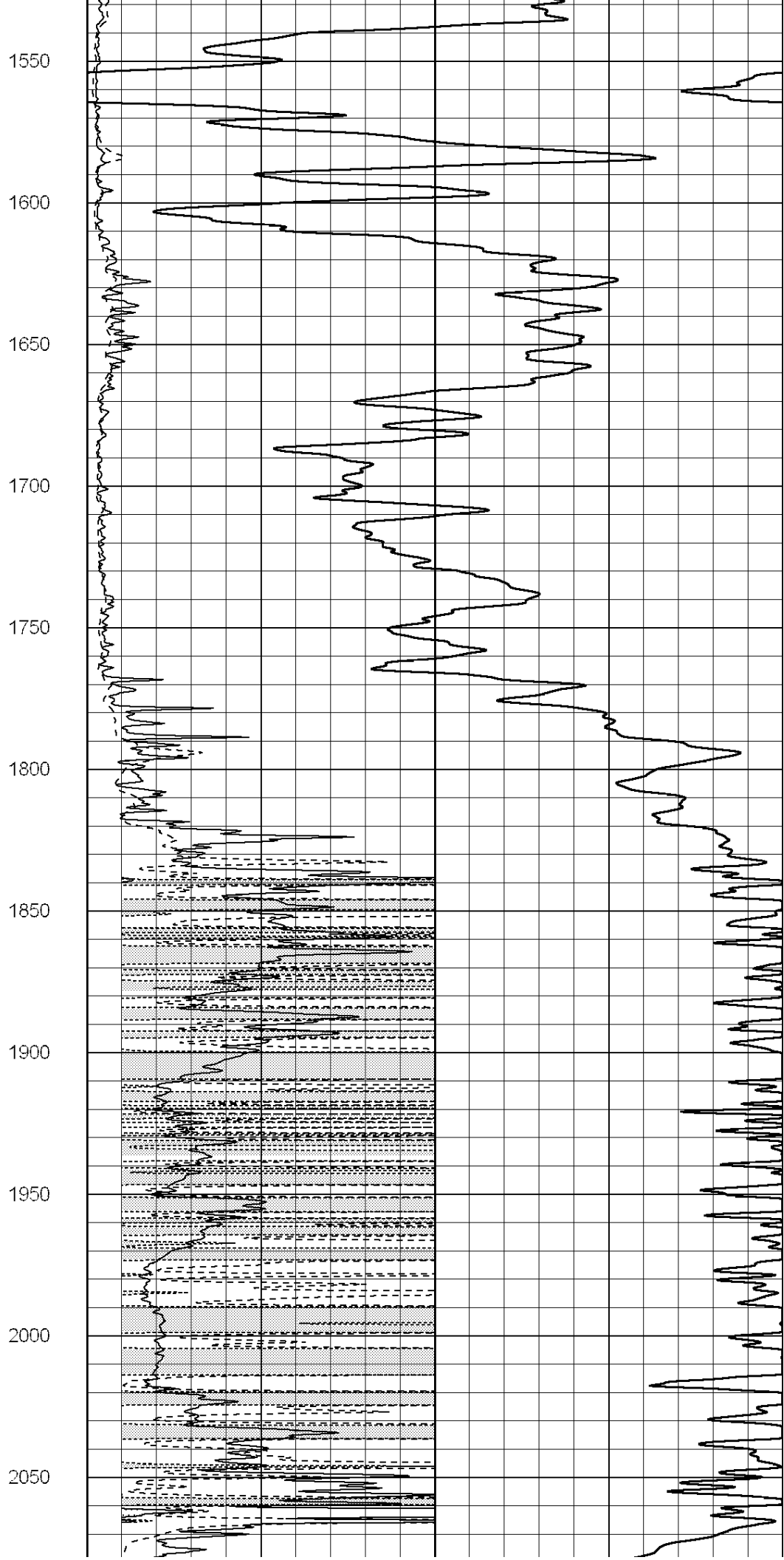
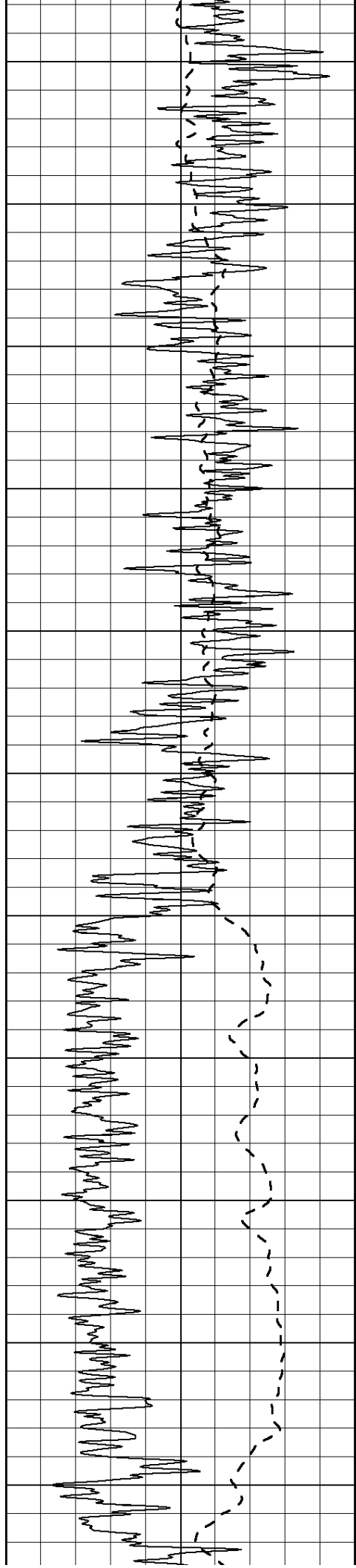
850

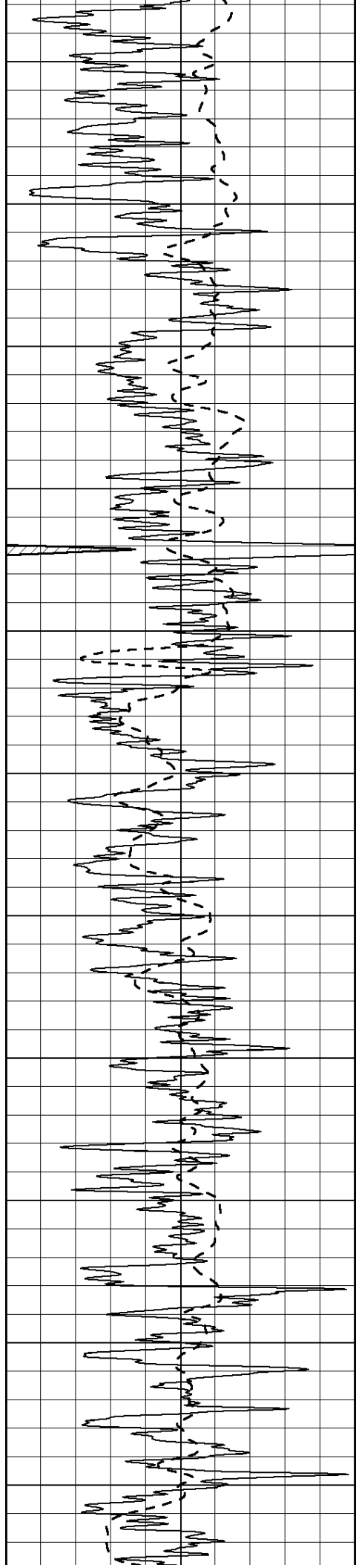
900

950









2100

2150

2200

2250

2300

2350

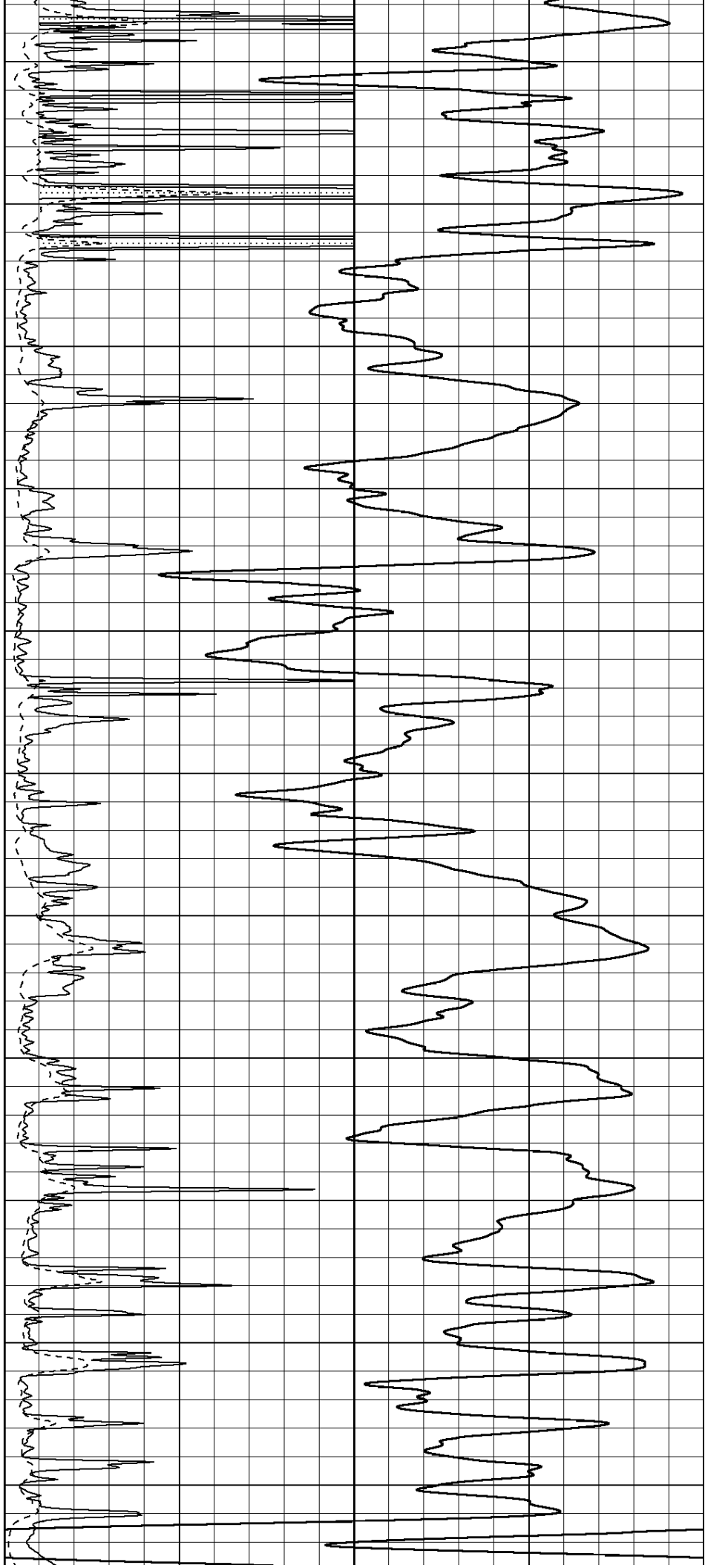
2400

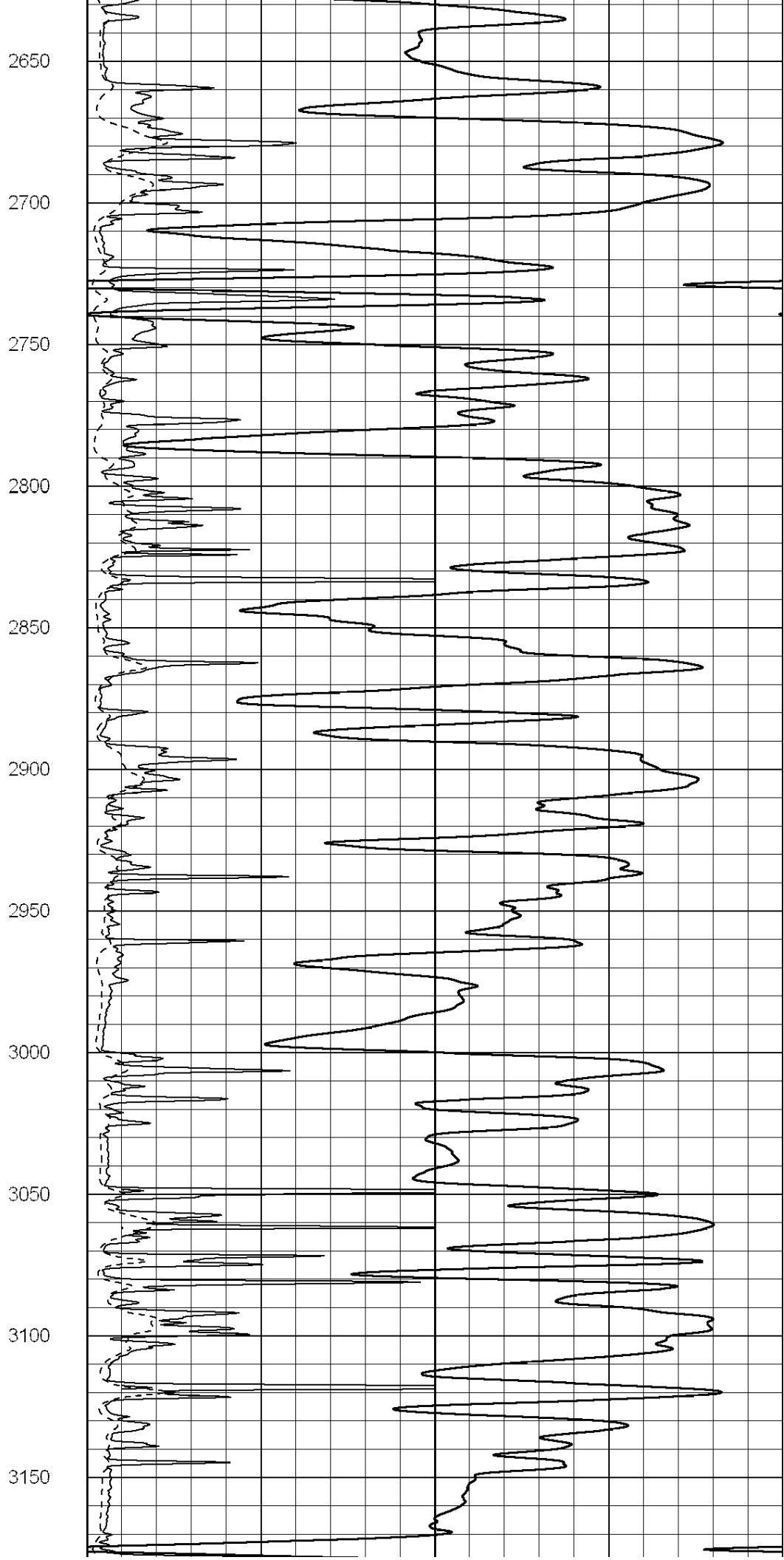
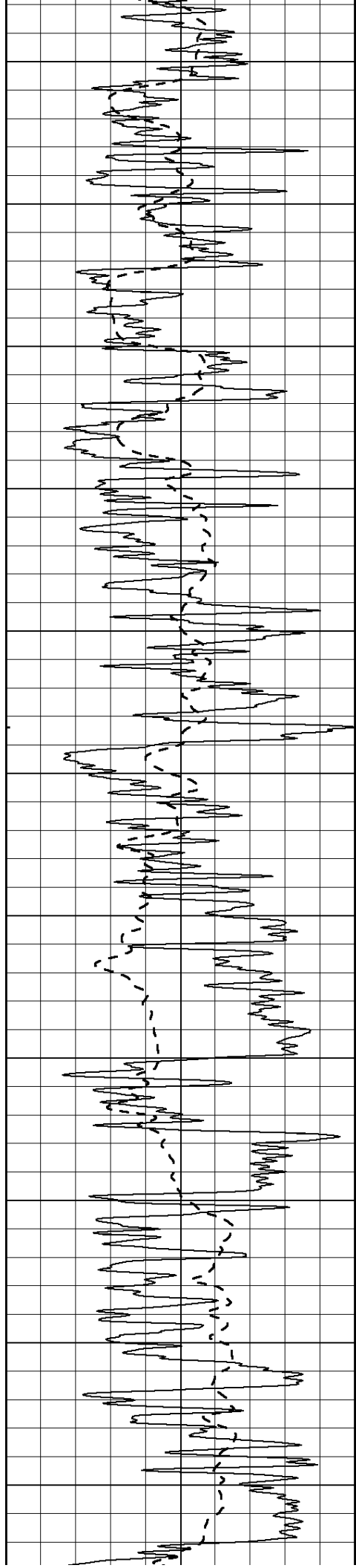
2450

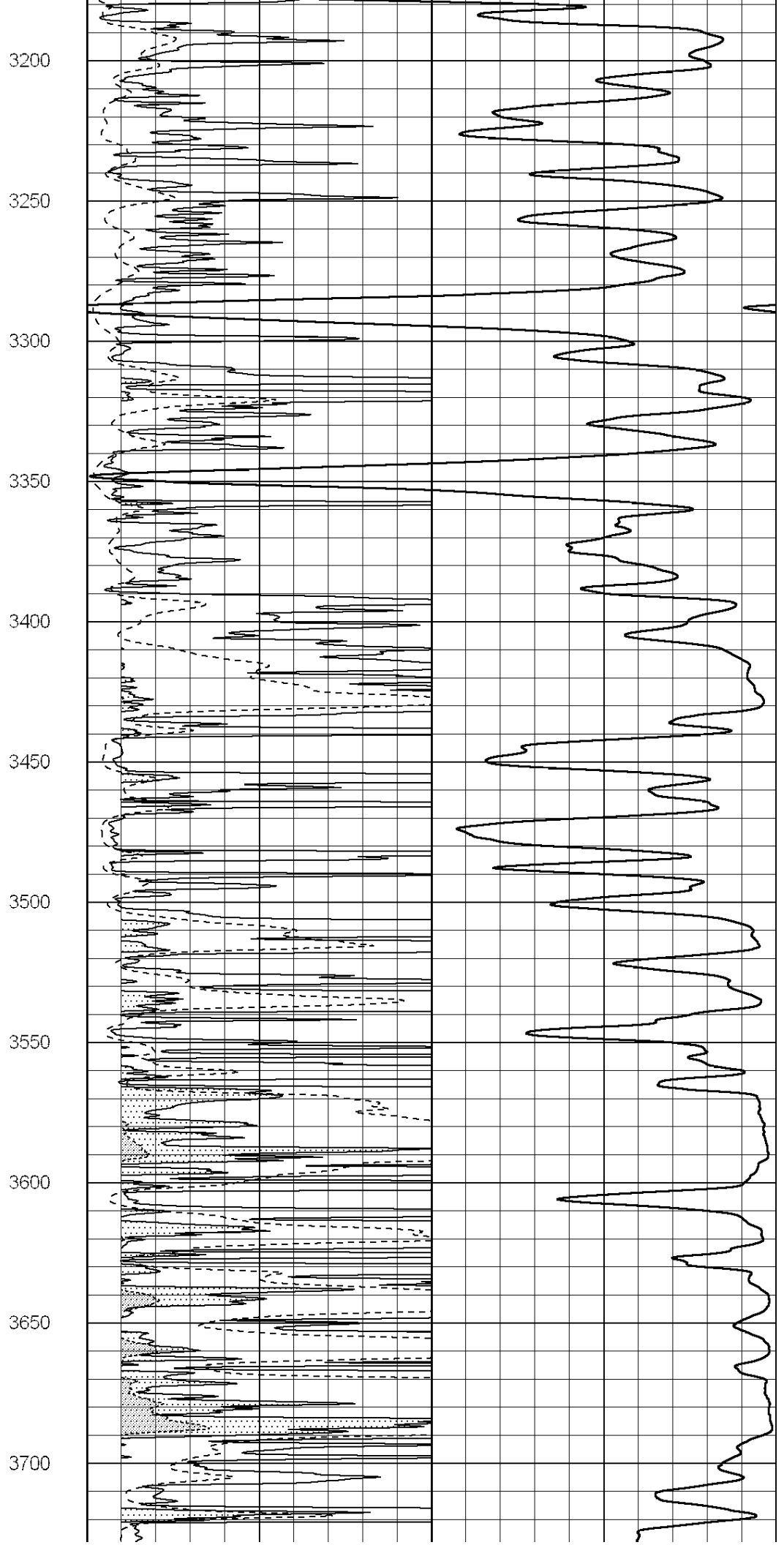
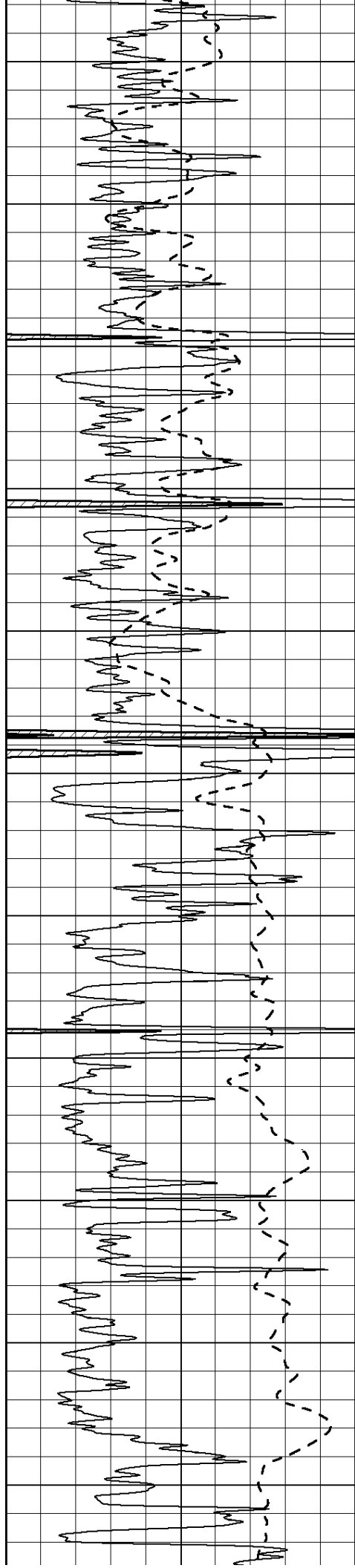
2500

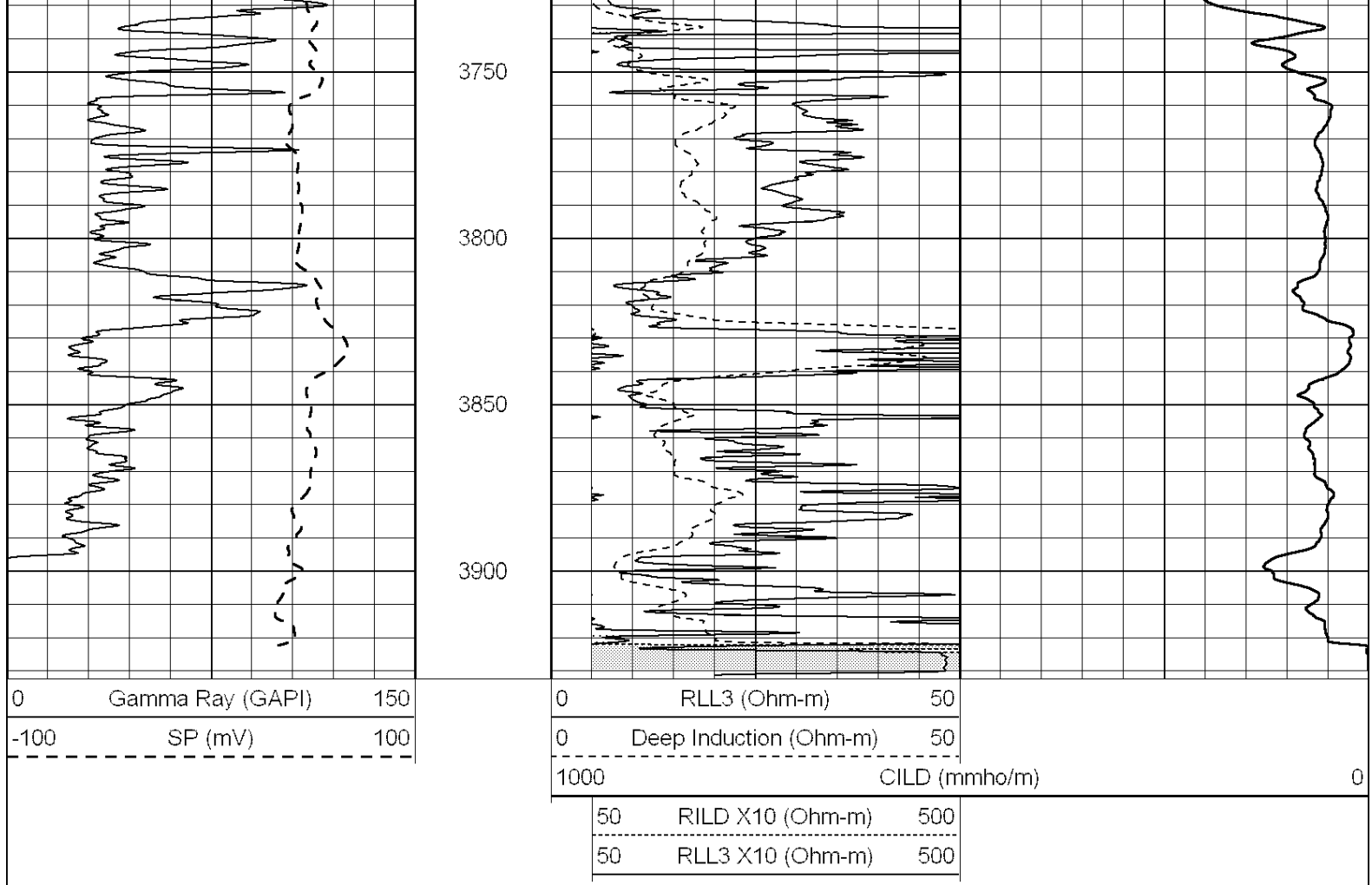
2550

2600







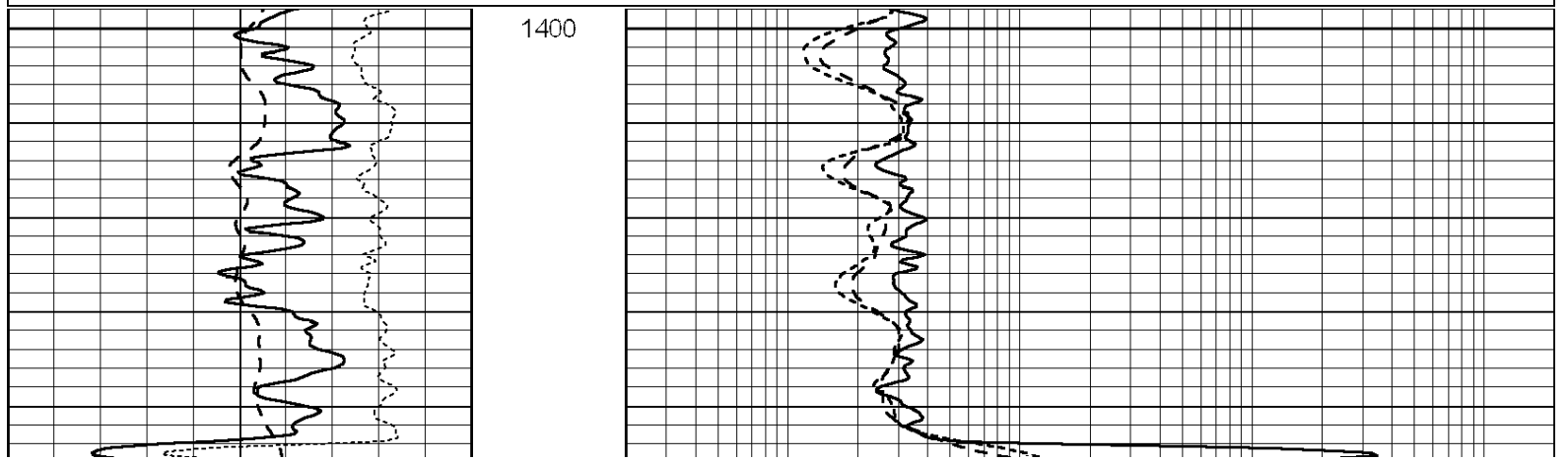


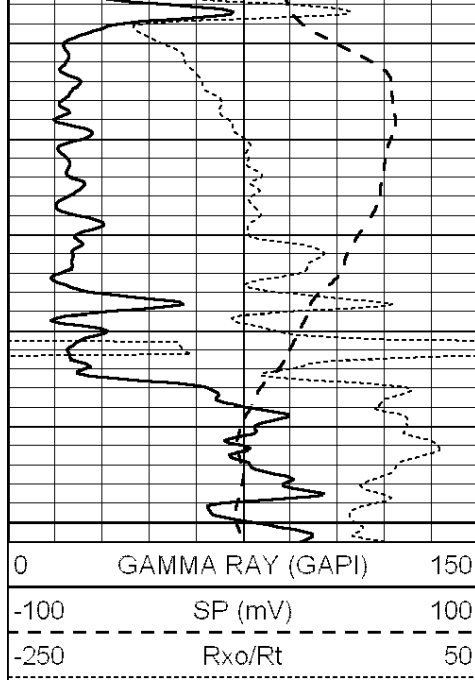
SUPERIOR
Hays,
Kansas

ANHYDRITE

Database File: 007061ddn.db
 Dataset Pathname: pass5.3
 Presentation Format: _dil
 Dataset Creation: Thu May 12 20:18:14 2011 by Calc Open-Cased 090629
 Charted by: Depth in Feet scaled 1:240

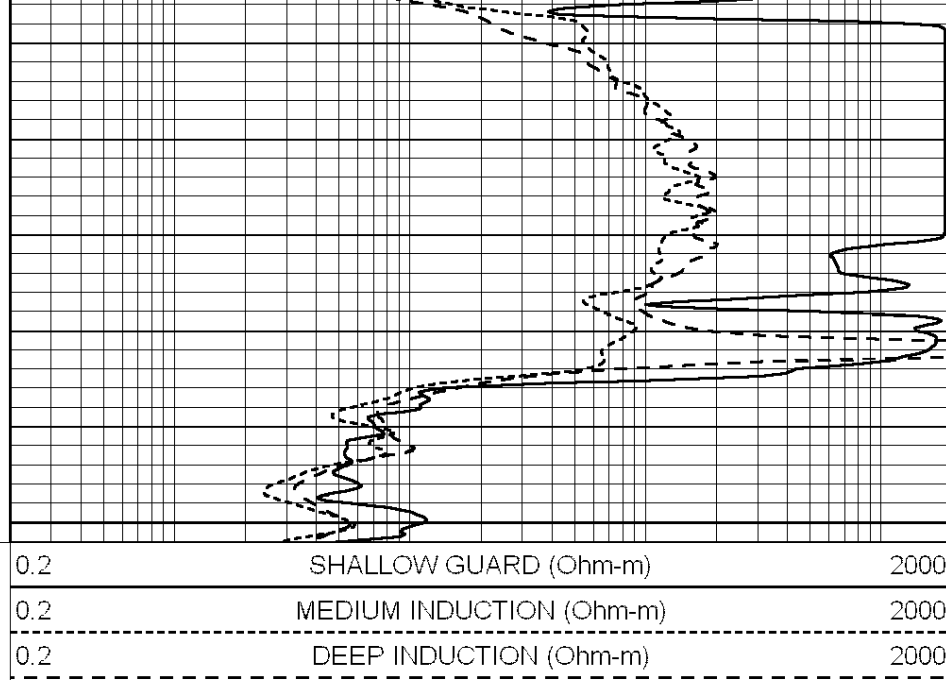
0	GAMMA RAY (GAPI)	150	0.2	SHALLOW GUARD (Ohm-m)	2000
-100	SP (mV)	100	0.2	MEDIUM INDUCTION (Ohm-m)	2000
-250	Rxo/Rt	50	0.2	DEEP INDUCTION (Ohm-m)	2000





1450

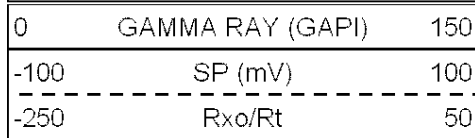
1500



SUPERIOR
Hays,
Kansas

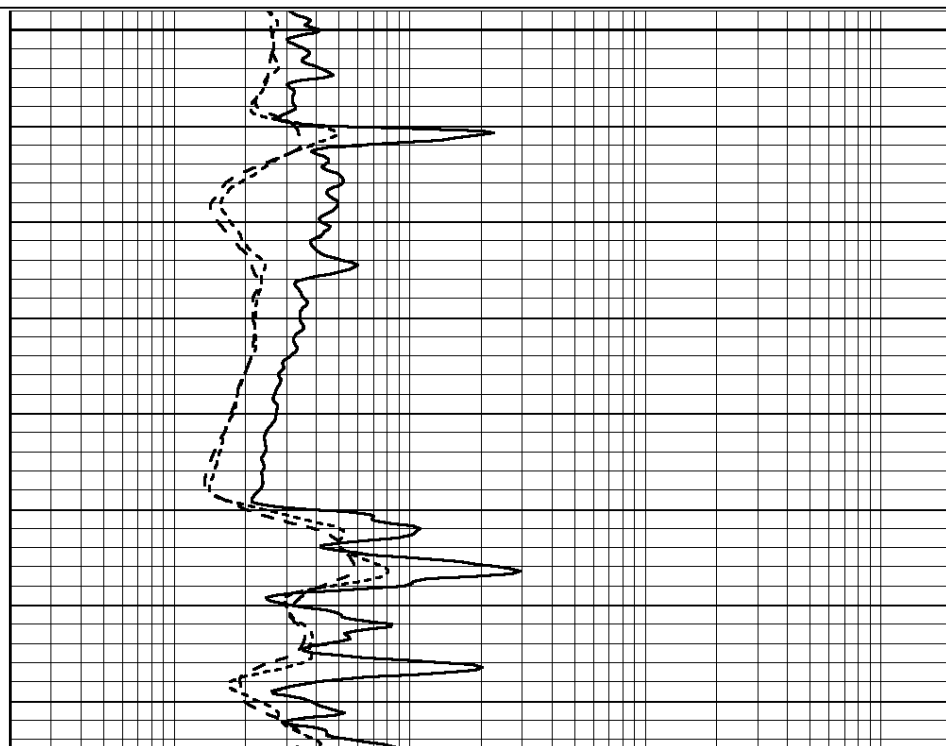
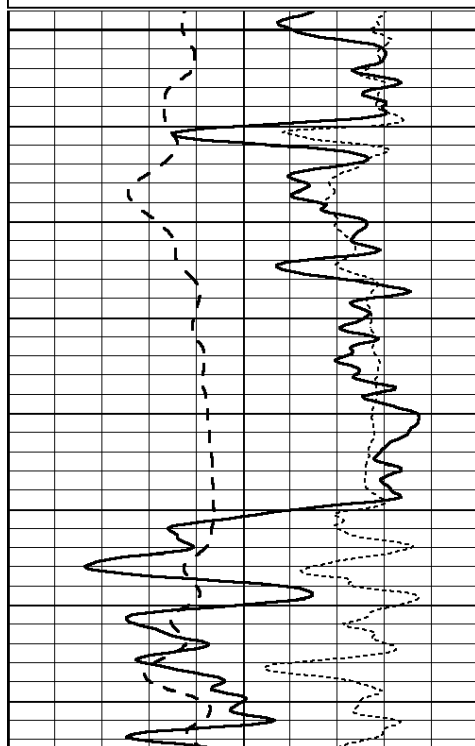
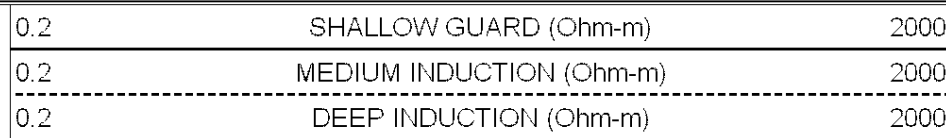
MAIN SECTION

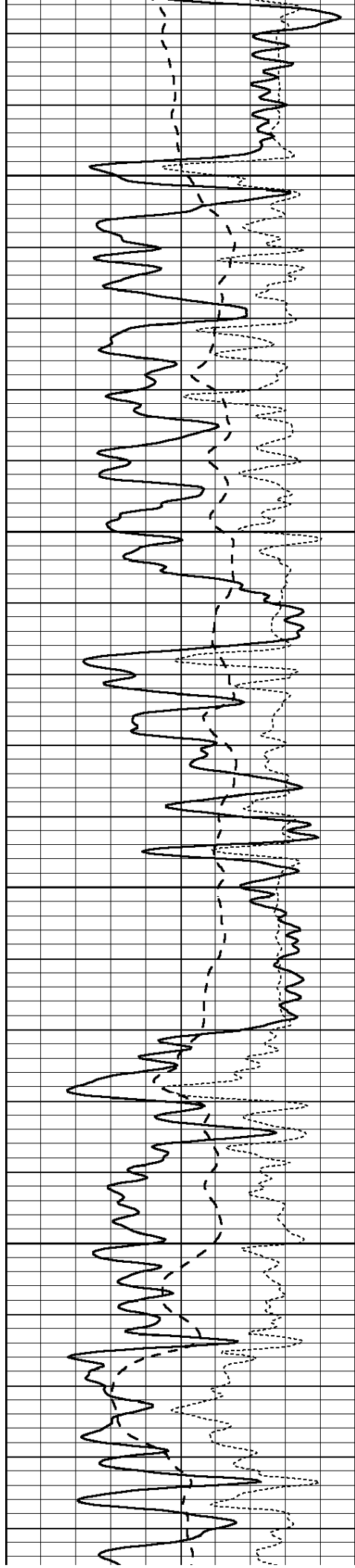
Database File: 007061ddn.db
 Dataset Pathname: pass5.1
 Presentation Format: _dil
 Dataset Creation: Thu May 12 20:00:53 2011 by Calc Open-Cased 090629
 Charted by: Depth in Feet scaled 1:240



2950

3000



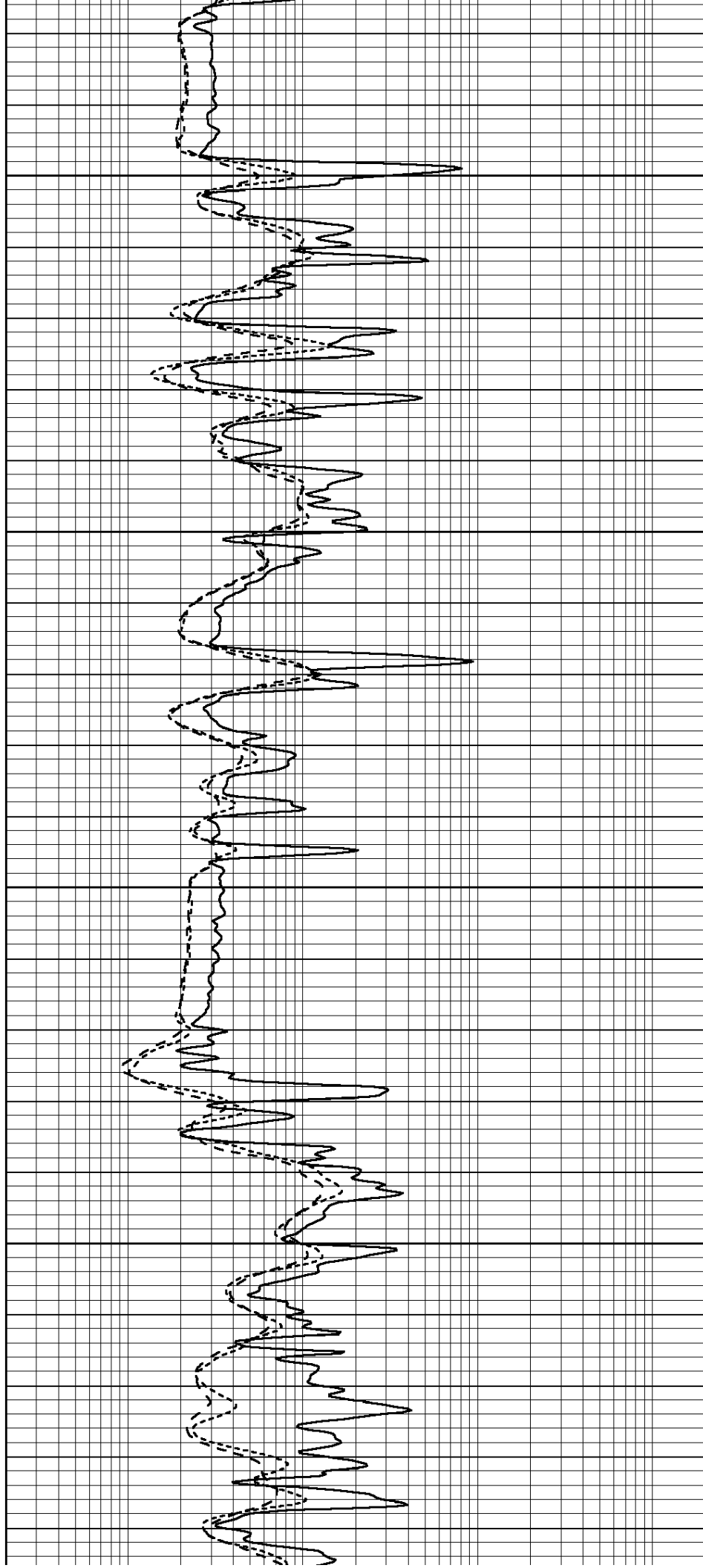


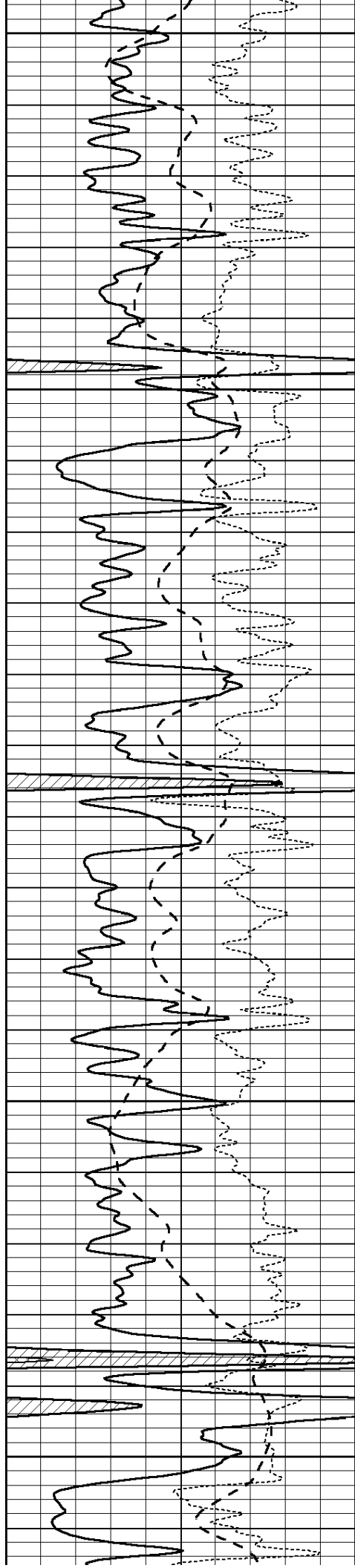
3050

3100

3150

3200





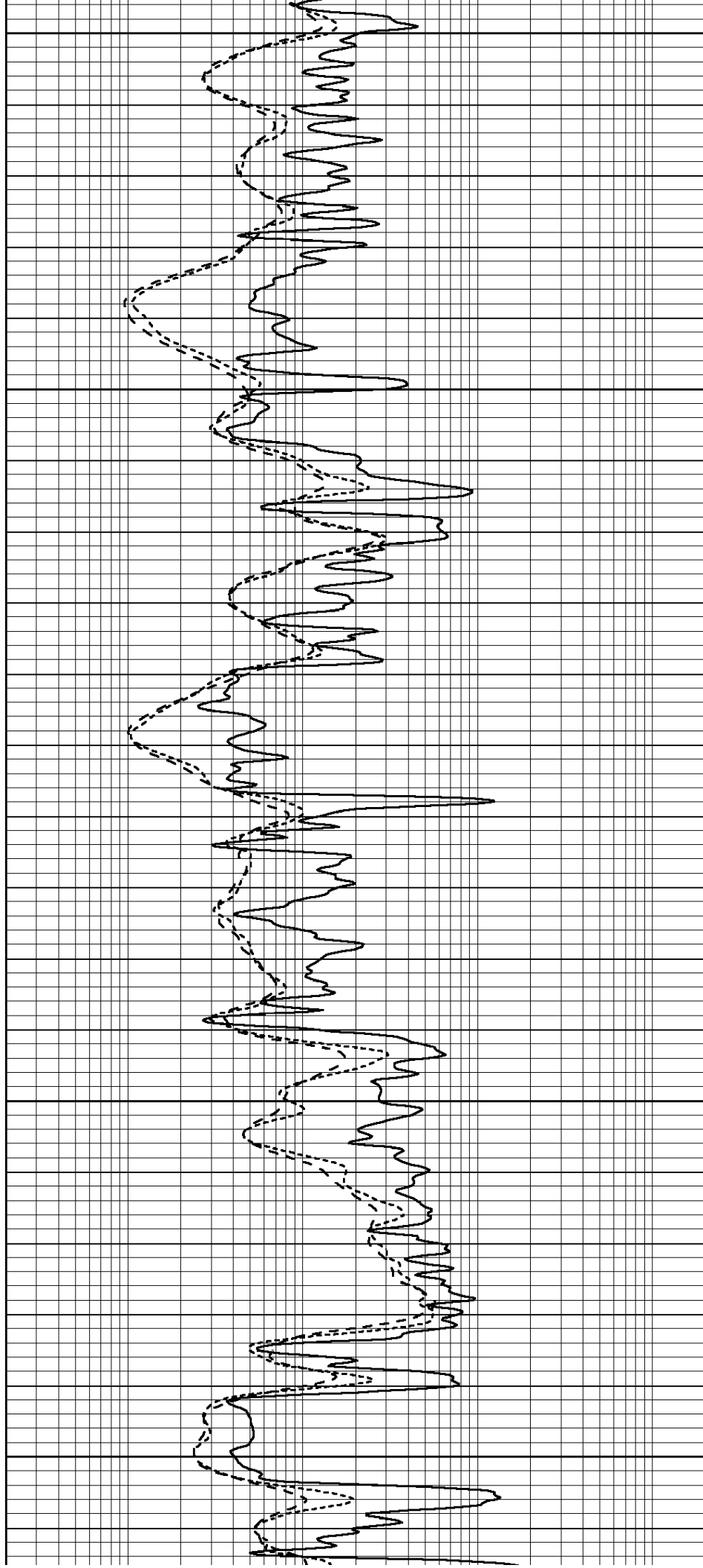
3250

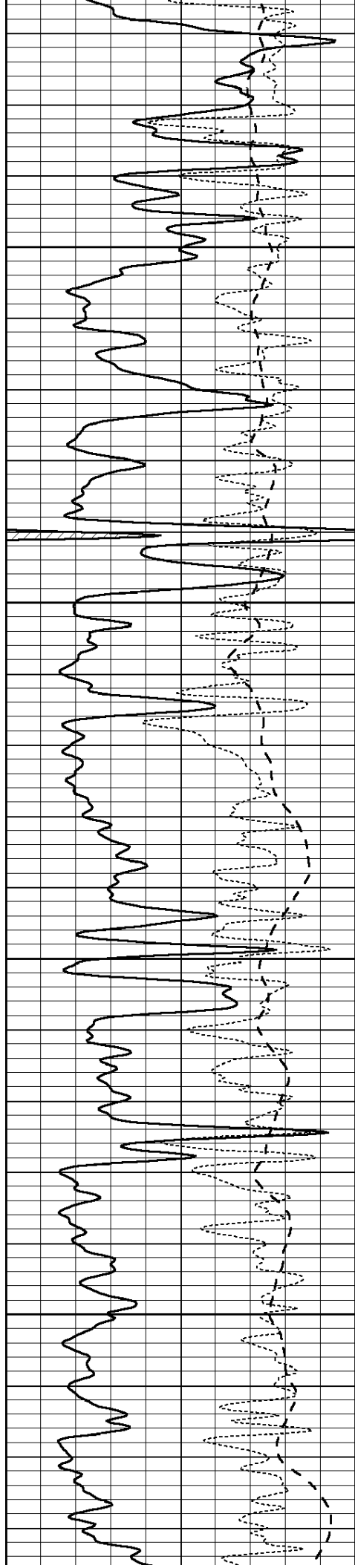
3300

3350

3400

3450



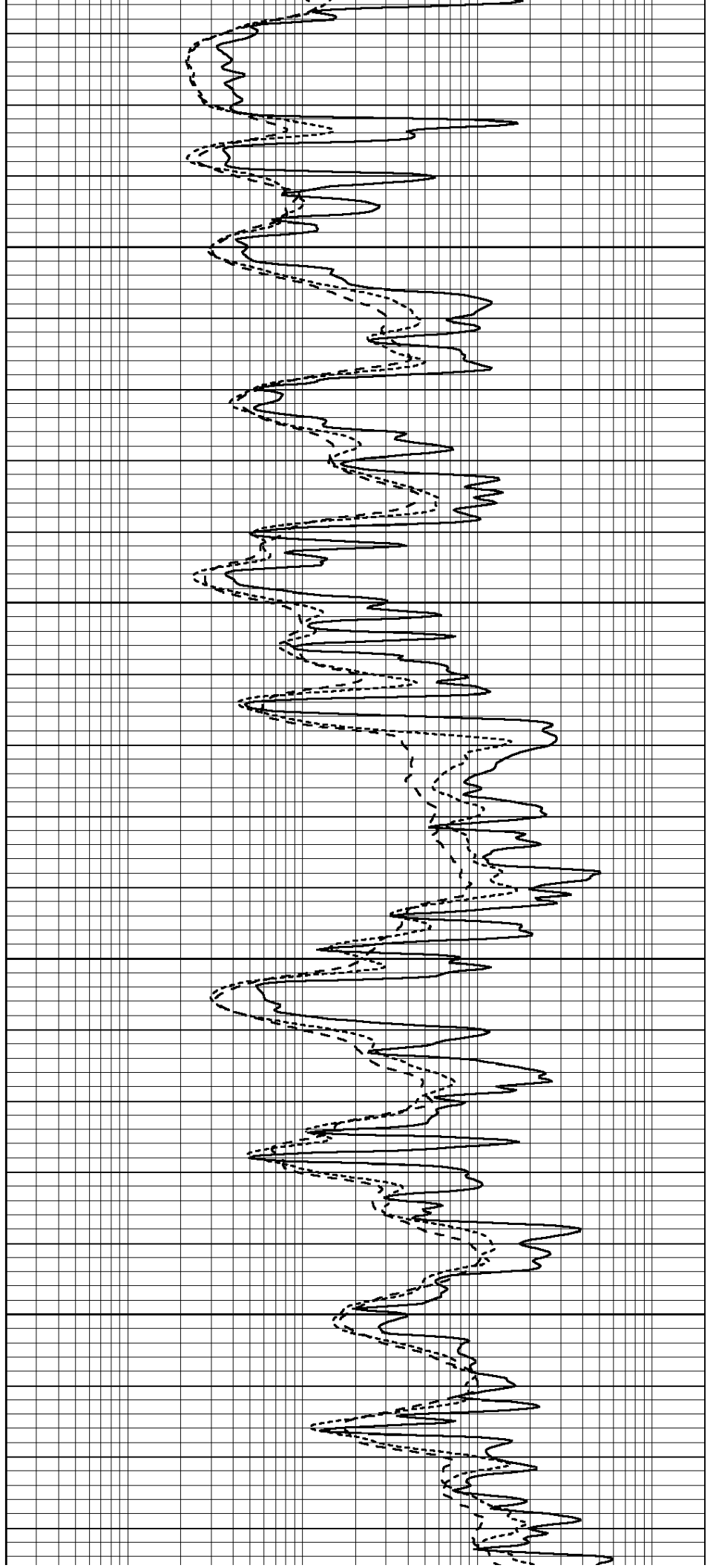


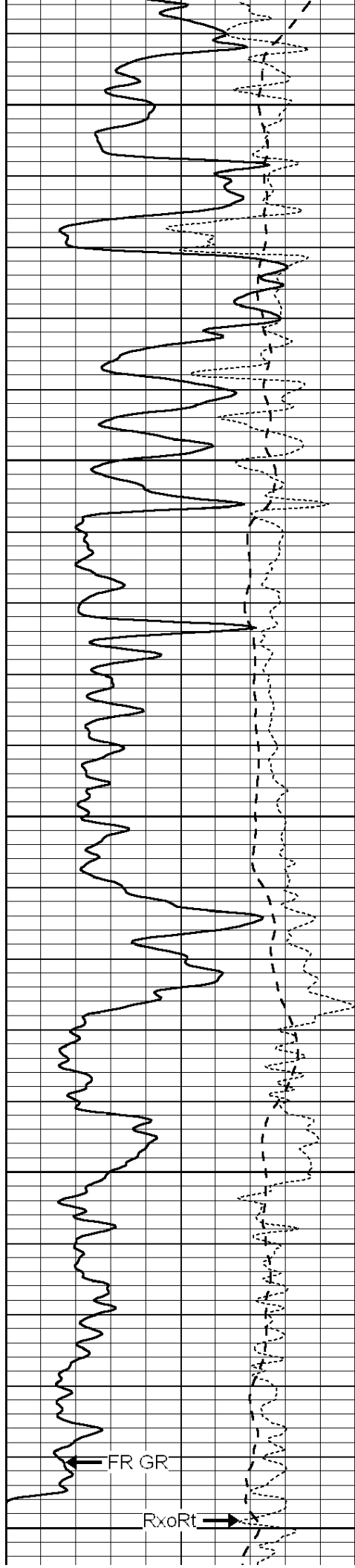
3500

3550

3600

3650





3700

3750

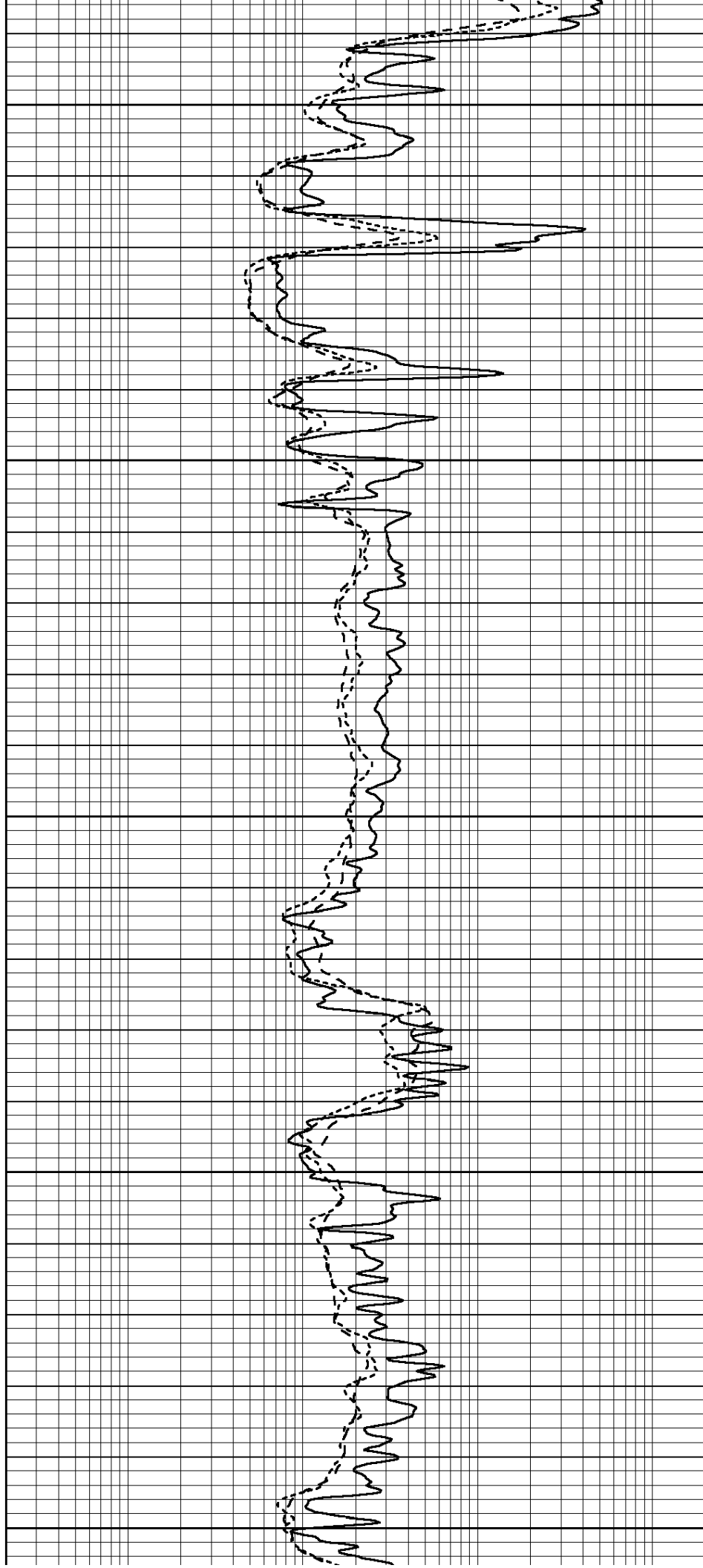
3800

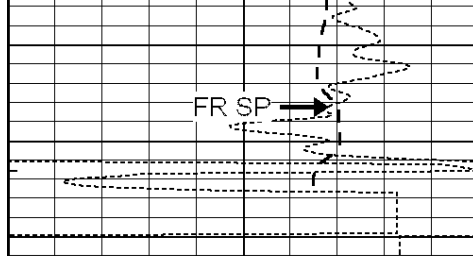
3850

3900

FR GR

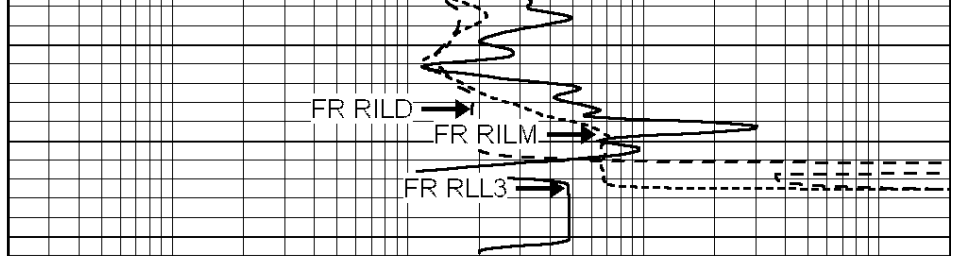
RxoRt





LTD 3927

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



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



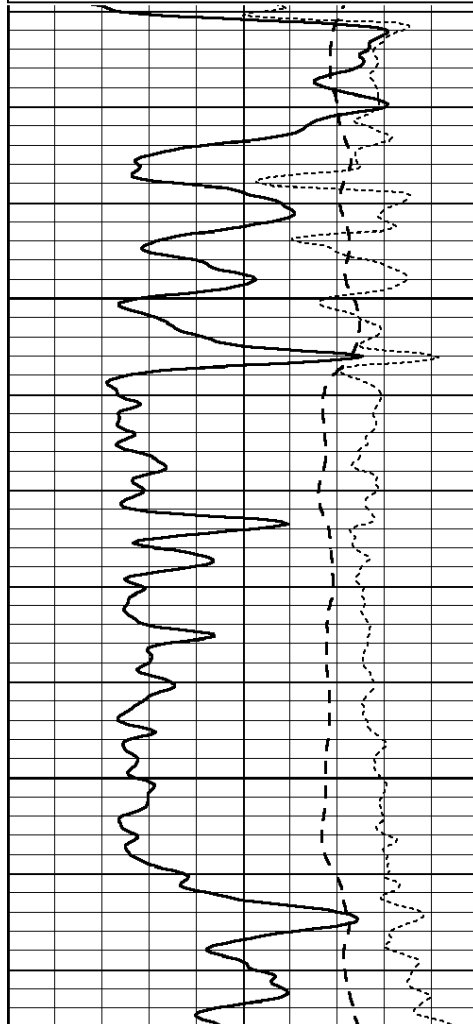
SUPERIOR
Hays,
Kansas

REPEAT SECTION

Database File: 007061ddn.db
 Dataset Pathname: pass3.1
 Presentation Format: _dil
 Dataset Creation: Thu May 12 19:53:10 2011 by Calc Open-Cased 090629
 Charted by: Depth in Feet scaled 1:240

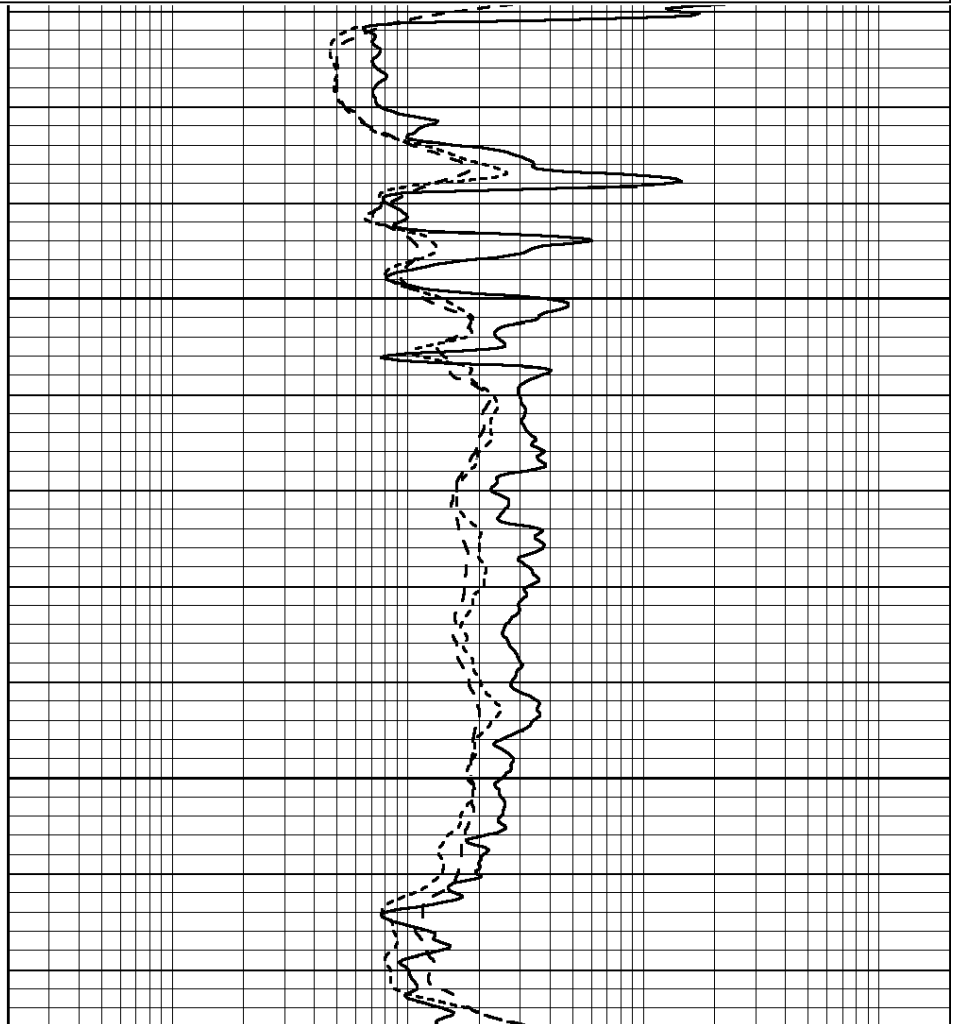
0	GAMMA RAY (GAPI)	150
-100	SP (mV)	100
-250	Rxo/Rt	50

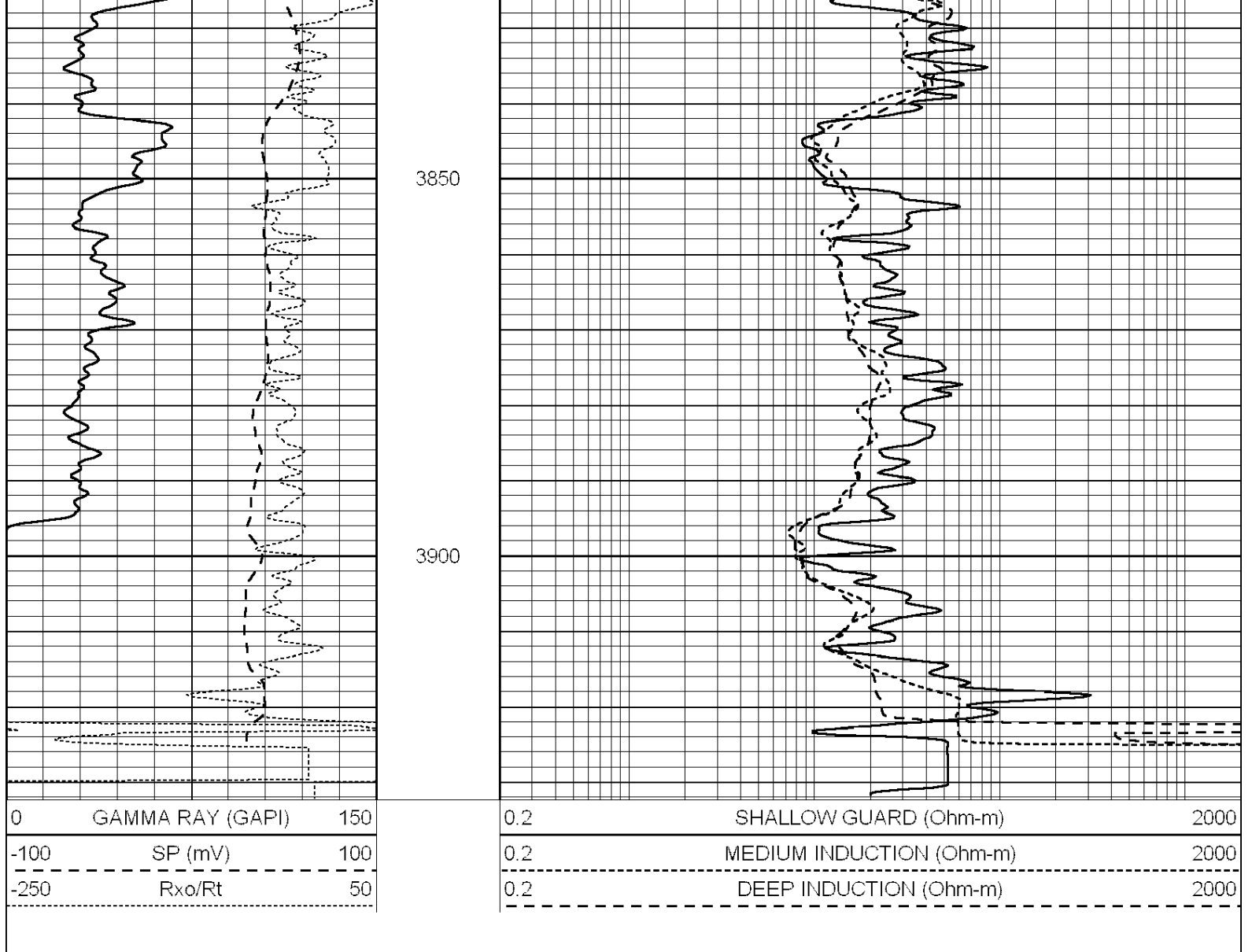
0.2	SHALLOW GUARD (Ohm-m)	2000
0.2	MEDIUM INDUCTION (Ohm-m)	2000
0.2	DEEP INDUCTION (Ohm-m)	2000



3750

3800





Calibration Report

Database File: 007061ddn.db
 Dataset Pathname: pass5.1
 Dataset Creation: Thu May 12 20:00:53 2011 by Calc Open-Cased 090629

Dual Induction Calibration Report

Serial-Model: PROBE7-DILG
 Surface Cal Performed: Wed Jul 30 06:14:24 2008
 Downhole Cal Performed: Mon Jul 28 12:02:56 2008
 After Survey Verification Performed: Mon Jul 28 12:02:56 2008

Surface Calibration

Readings				References			Results	
Loop:	Air	Loop		Air	Loop		m	b
Deep	-0.014	0.629	V	0.000	400.000	mmho/m	621.923	8.759
Medium	0.039	0.728	V	0.000	464.000	mmho/m	673.322	-26.058
Internal:	Zero	Cal		Zero	Cal		m	b
Deep	0.011	0.610	V	0.000	400.000	mmho/m	667.135	-7.256
Medium	0.005	0.712	V	0.000	464.000	mmho/m	655.677	-3.102

Downhole Calibration

Readings References Results

	Zero	Cal		Zero	Cal		m'	b'
Deep	0.000	0.000	mmho/m	14.508	388.384	mmho/m	1.000	0.000
Medium	0.000	0.000	mmho/m	166.367	504.400	mmho/m	1.000	0.000
LL3		7.500	V		1400.000	Ohm-m		
		0.000	V		20.000	Ohm-m		
		-7.200	V		4000.000	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		

Compensated Density Calibration Report

Serial-Model:	GEAR4-GEARHART
Source / Verifier:	143 / 143
Master Calibration Performed:	Wed Jan 26 17:58:17 2011

Master Calibration						
	Density			Far Detector		Near Detector
Magnesium	1.710	g/cc		1015.91	497.51	cps
Aluminum	2.600	g/cc		227.67	350.20	cps
Spine Angle = 76.79			Density/Spine Ratio = 0.579			
	Size			Reading		
Small Ring	8.00	in		2.50	V	
Large Ring	14.00	in		4.70	V	

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	

Gamma Ray Calibration Report

Serial Number:	#8	
Tool Model:	OPEN	
Performed:	Sun Apr 10 22:50:36 2011	
Calibrator Value:	150.0	GAPI
Background Reading:	0.0	cps
Calibrator Reading:	175.0	cps
Sensitivity:	0.8971	GAPI/cps