



SUPERIOR
Hays,
Kansas

DUAL
INDUCTION
LOG

Company STARR F. SCHLOBOHM OIL OPER.
Well MORGENSTERN SOUTH #6
Field
County RUSSELL
State KANSAS

Company STARR F. SCHLOBOHM OIL OPERATIONS
Well MORGENSTERN SOUTH #6
Field
County RUSSELL State KANSAS

Location: API #: 15-167-23583
330' FNL & 1215' FEL
SEC 34 TWP 15S RGE 15W
Permanent Datum GROUND LEVEL Elevation 1938
Log Measured From KELLY BUSHING 5' A.G.L.
Drilling Measured From KELLY BUSHING
Other Services
MICRO
CDL/CNL
Elevation
K.B. 1943
D.F.
G.L. 1938

Date	7-14-09		
Run Number	ONE		
Depth Driller	3500		
Depth Logger	3494		
Bottom Logged Interval	3492		
Top Log Interval	00		
Casing Driller	978		
Casing Logger	978		
Bit Size	7.875		
Type Fluid in Hole	CHEMICAL MUD		
Density / Viscosity	9.3 / 46		
pH / Fluid Loss	9.0 / 10.4		
Source of Sample	FLOWLINE		
Rim @ Meas. Temp	0.70 @ 84F		
Rinf @ Meas. Temp	0.53 @ 84F		
Rmc @ Meas. Temp	0.84 @ 84F		
Source of Rinf / Rmc	MEASURED		
Rim @ BHT	.530 @ 110F		
Time Circulation Stopped	2 HOURS		
Time Logger on Bottom			
Maximum Recorded Temperature	110F		
Equipment Number	860		
Location	HAYS, KS.		
Recorded By	RUPP		
Witnessed By	FRANCIS C. WHISLER		

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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

SUPERIOR WELL SERVICES
785-628-6395
THANK YOU FOR YOUR BUSINESS
DIRECTIONS: GORHAM & I-70, S TO MICHAELIS RD., 1 1/2E, S INTO.



SUPERIOR
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MAIN SECTION

Database File: 003475ddn.db
Dataset Pathname: pass3.1A
Presentation Format: dil2
Dataset Creation: Tue Jul 14 04:23:06 2009 by Calc Open-Cased 051020
Charted by: Depth in Feet scaled 1:600

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

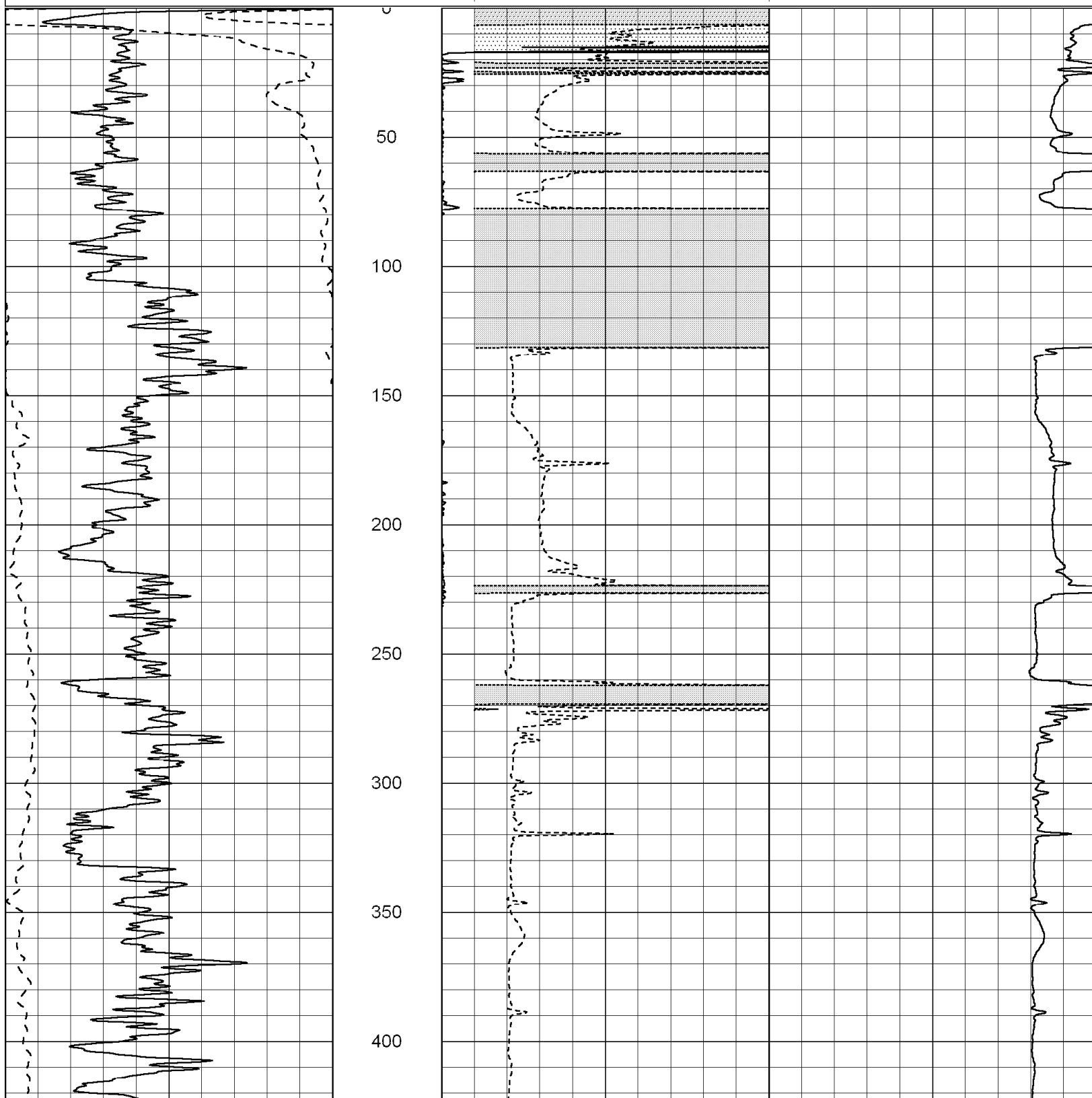
0	RLL3 (Ohm-m)	50
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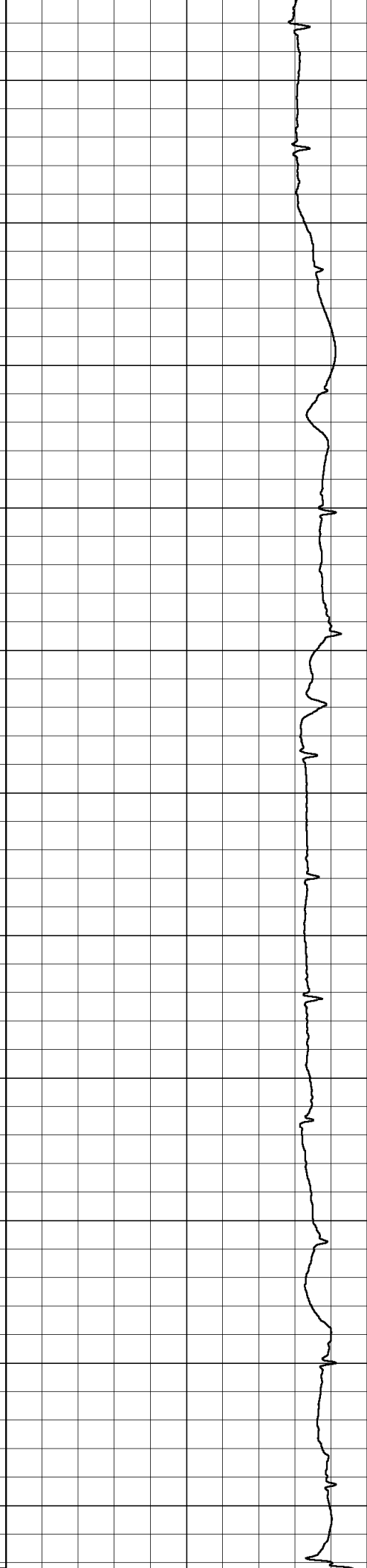
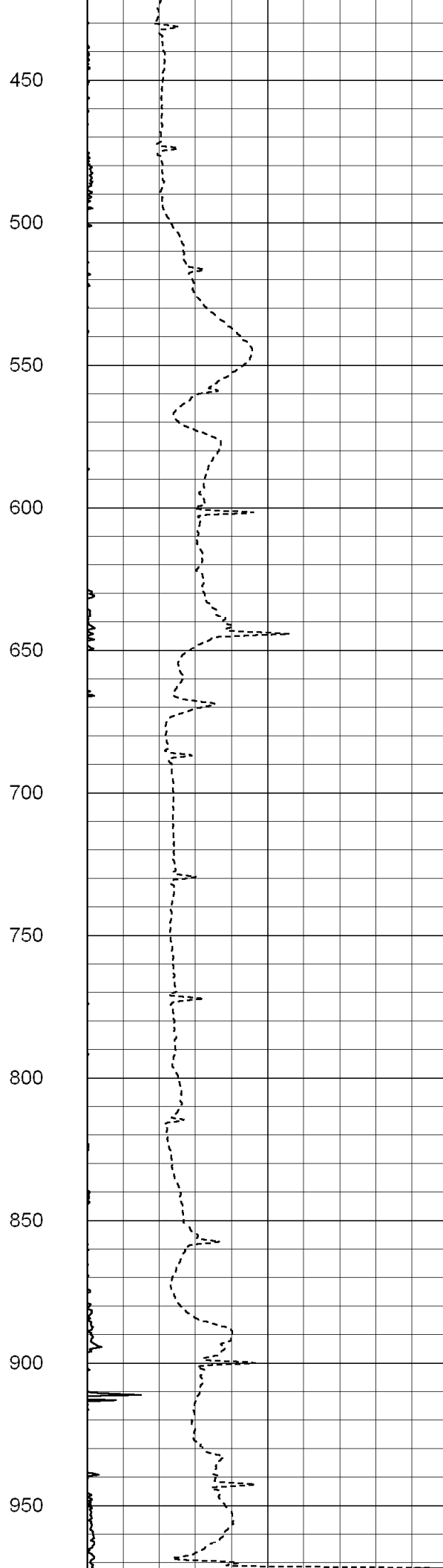
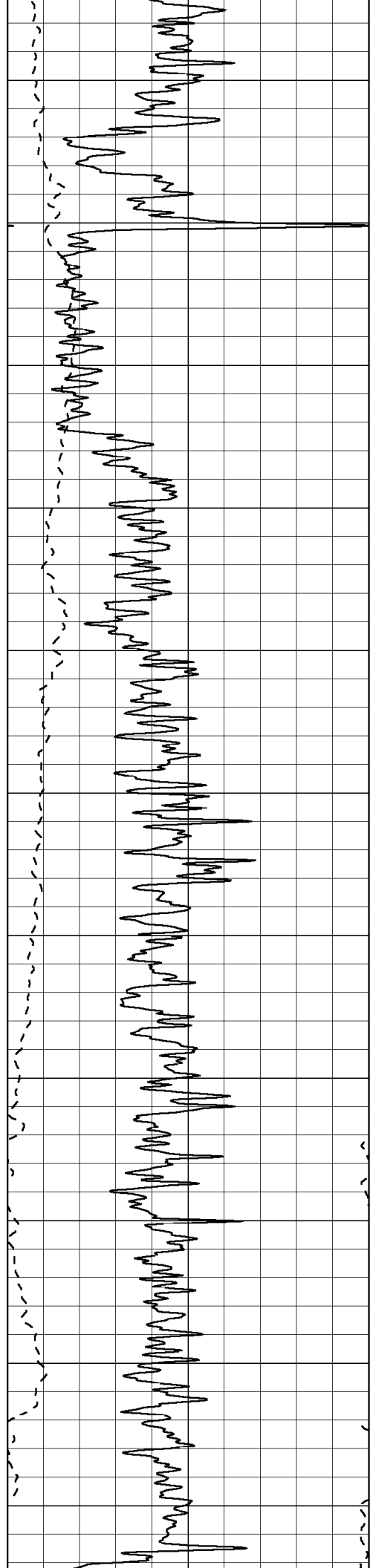
0	Deep Induction (Ohm-m)	50
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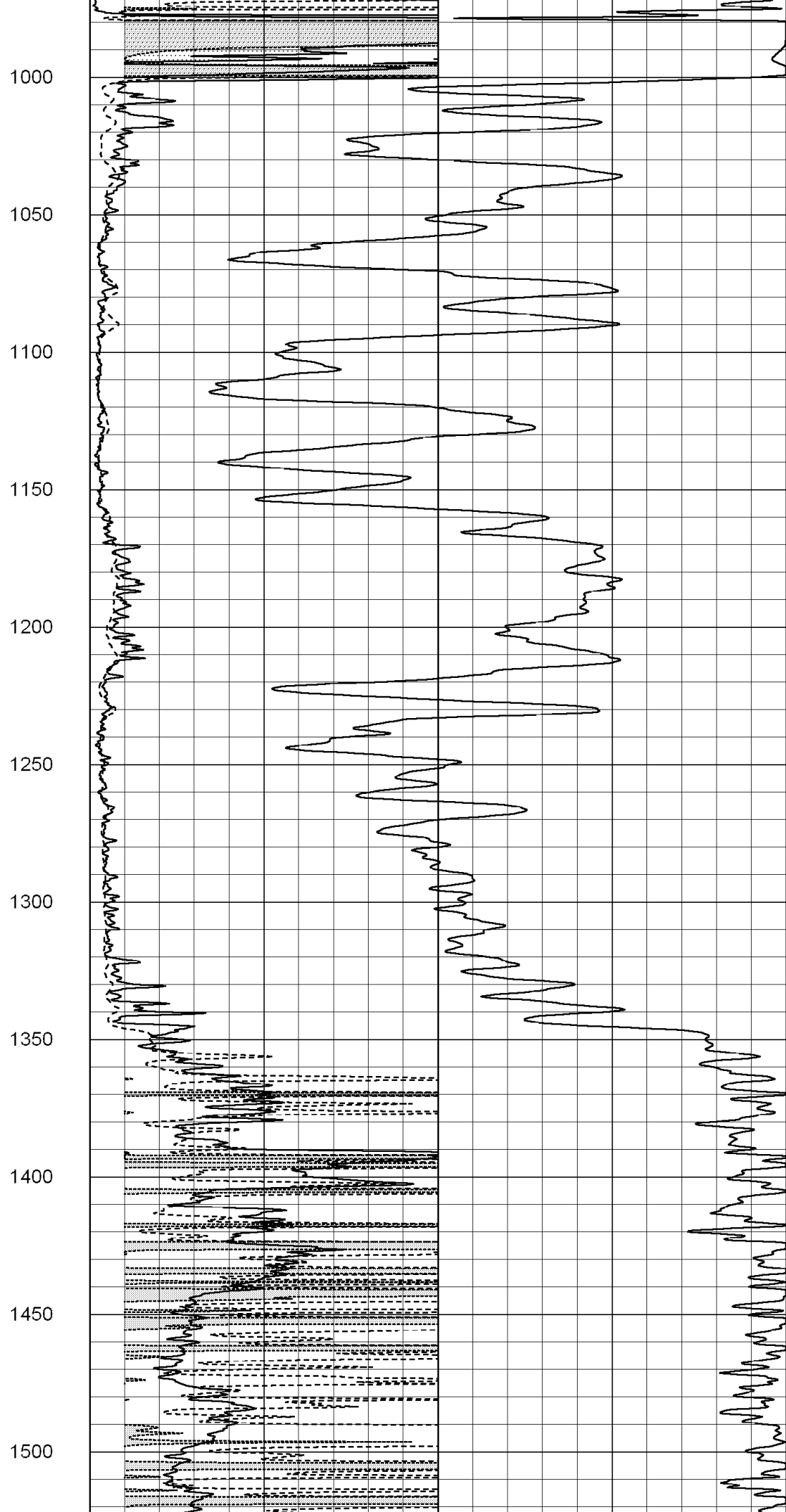
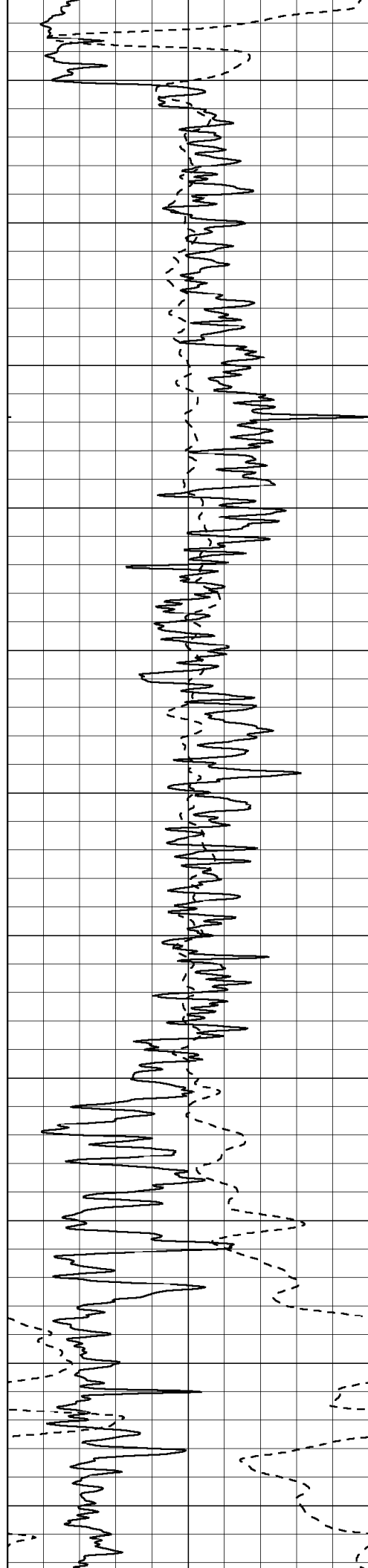
1000	CILD (mmho-m)	0
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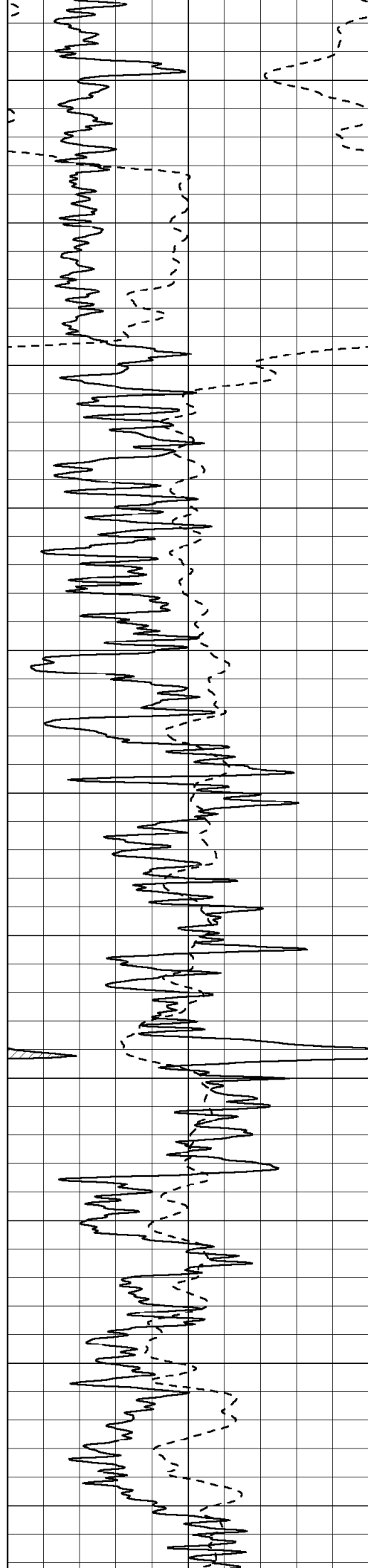
50	RILD X10 (Ohm-m)	500
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50	RLL3 X10 (Ohm-m)	500
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1550

1600

1650

1700

1750

1800

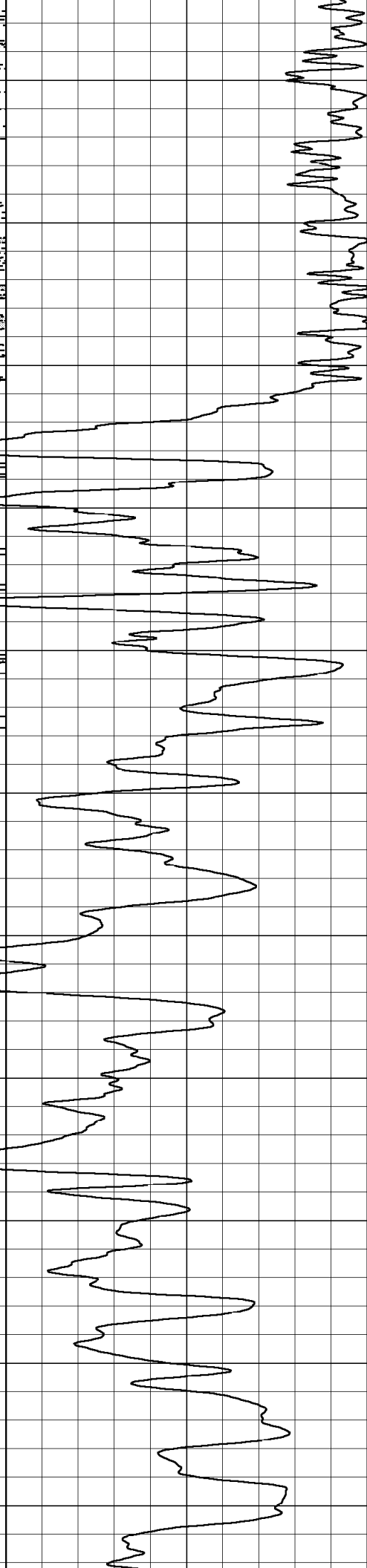
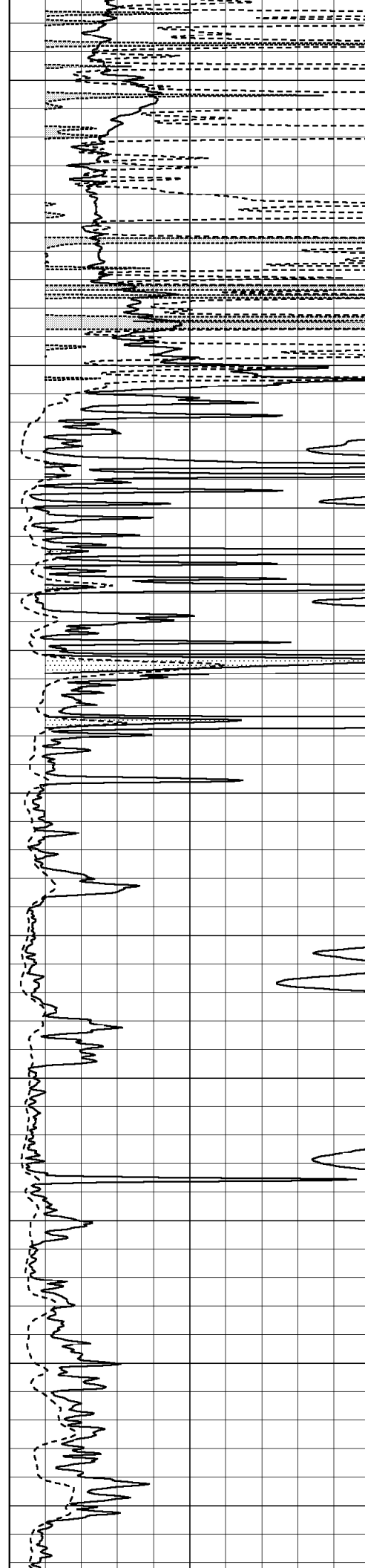
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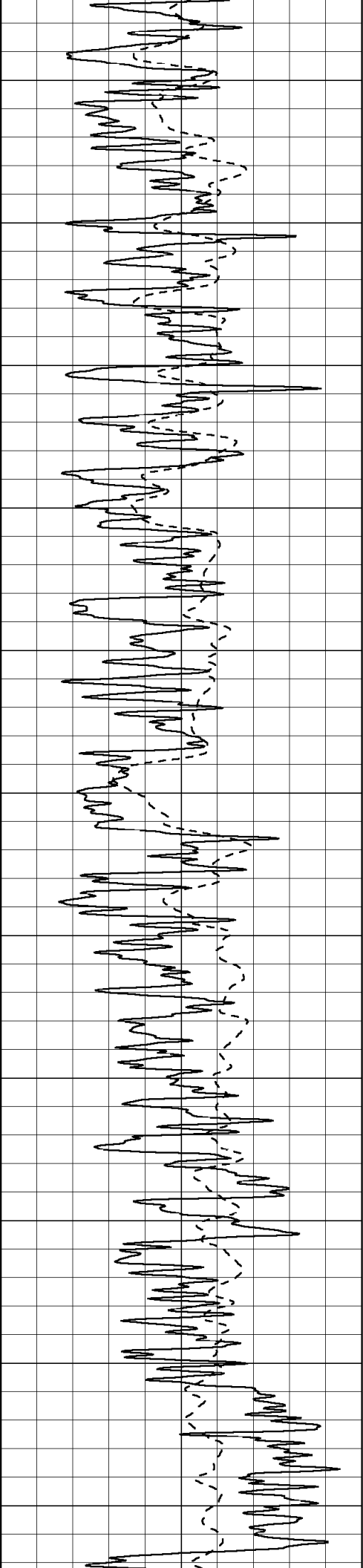
1900

1950

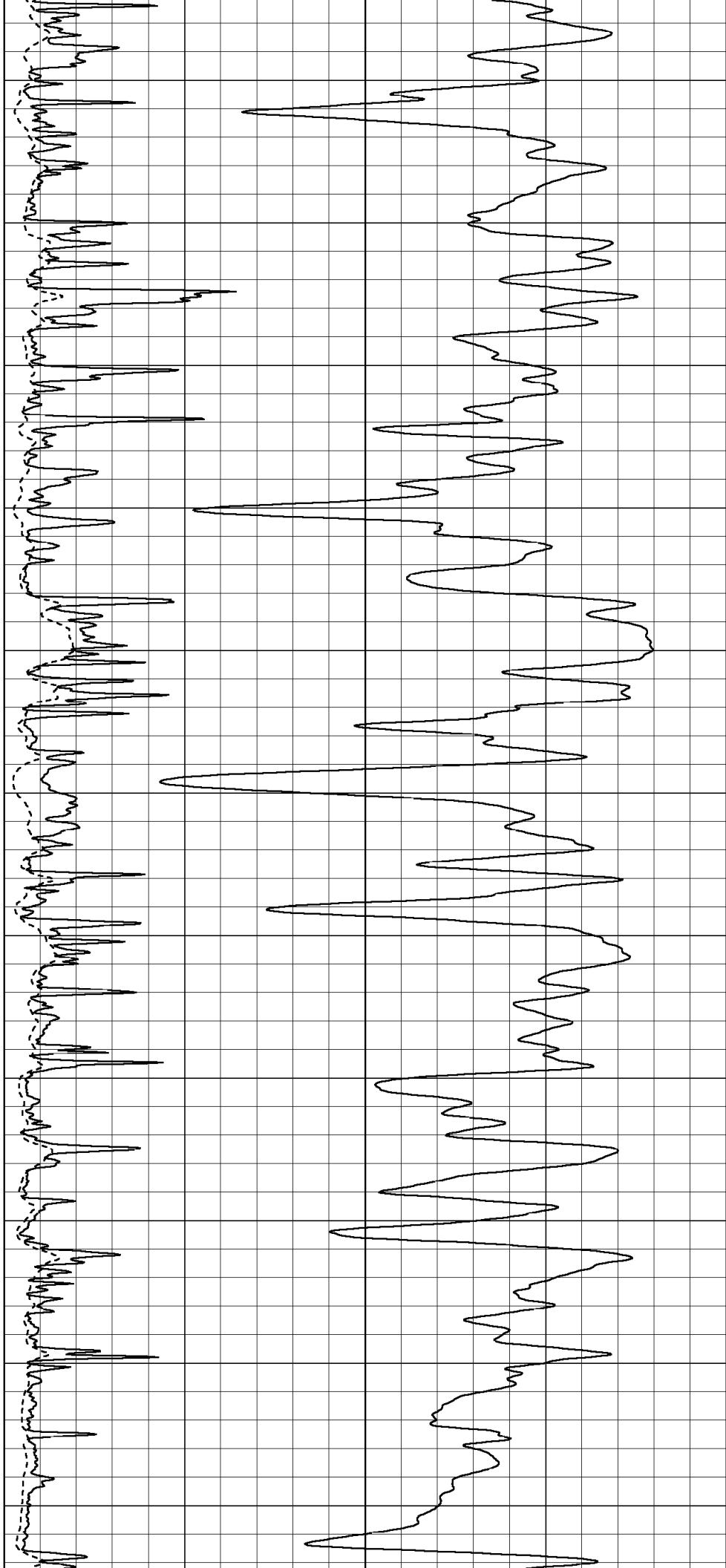
2000

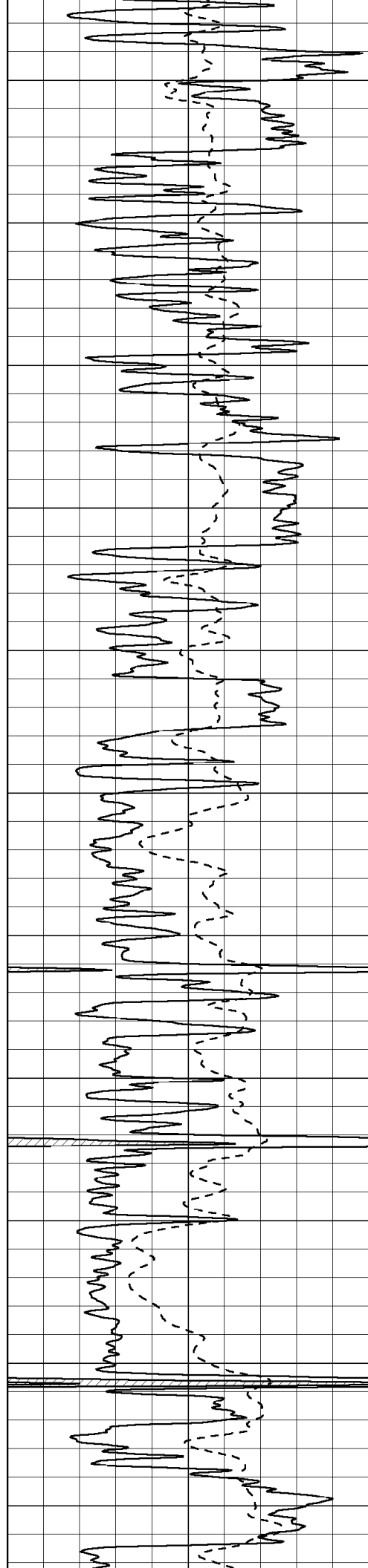
2050



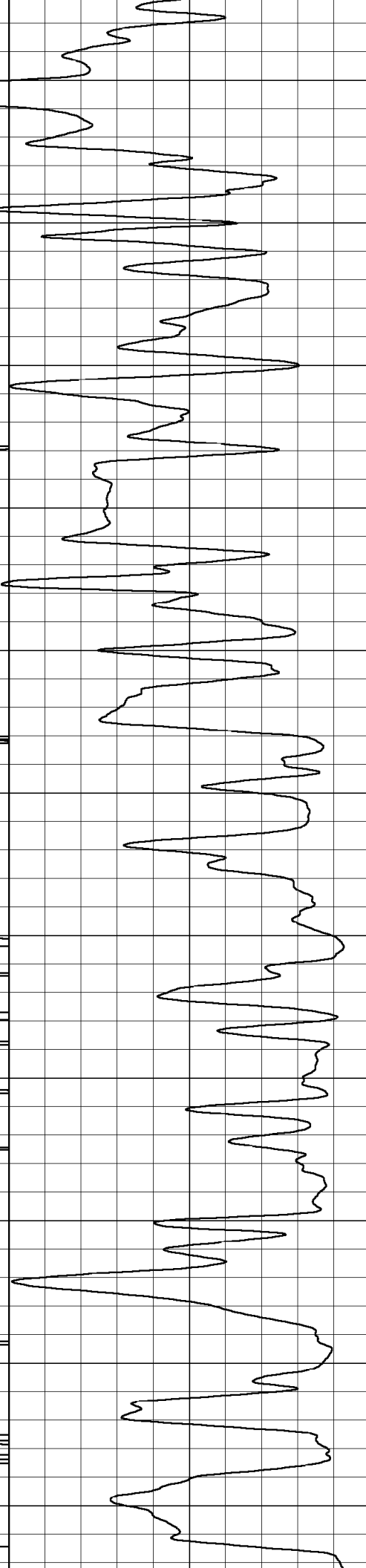
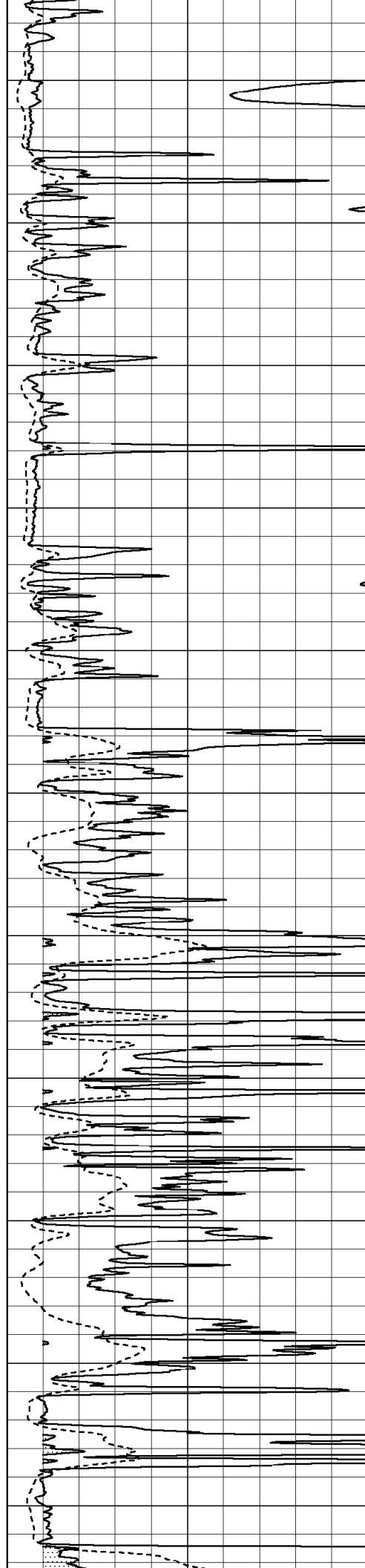


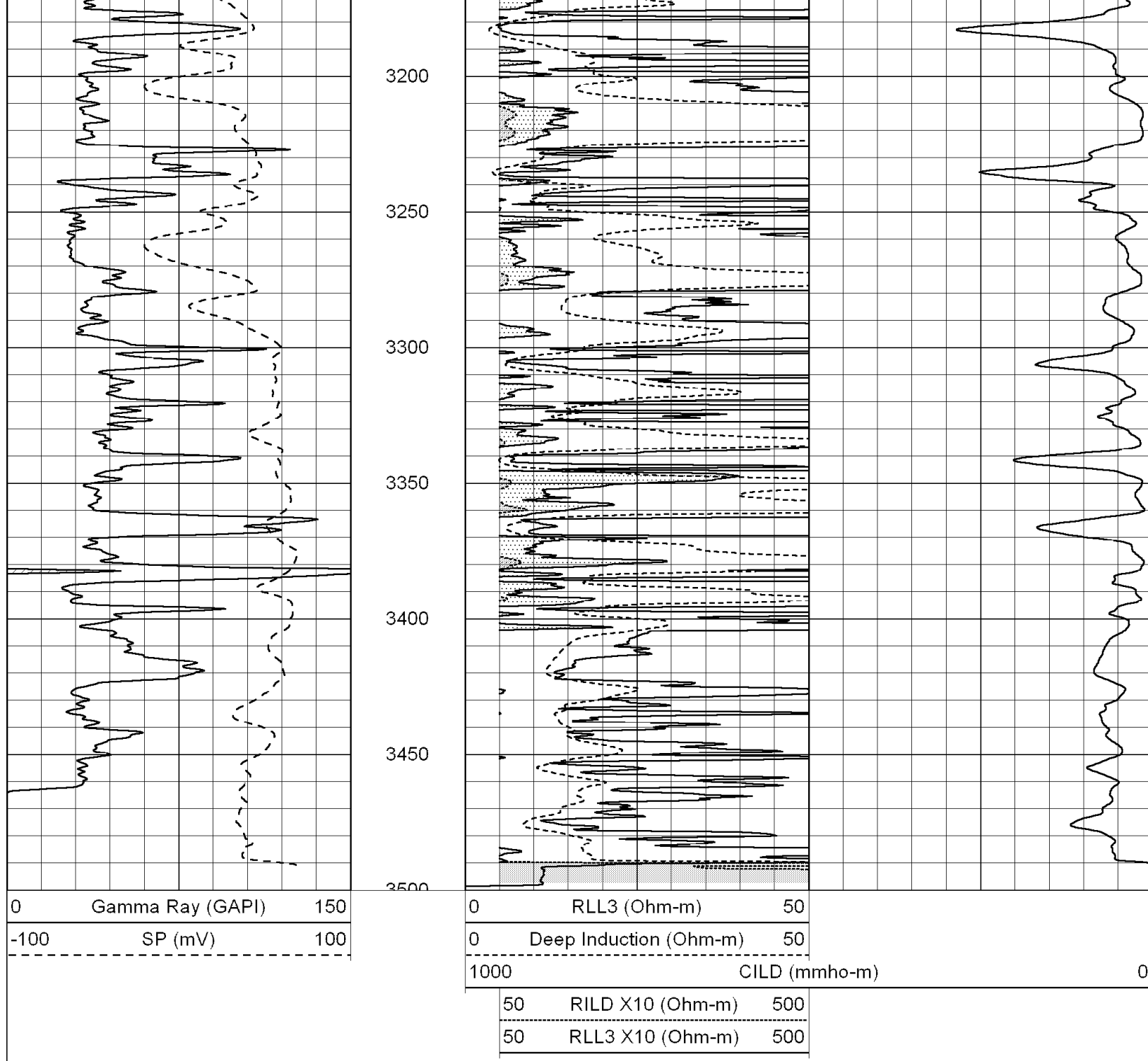
2100
2150
2200
2250
2300
2350
2400
2450
2500
2550
2600





2650
2700
2750
2800
2850
2900
2950
3000
3050
3100
3150



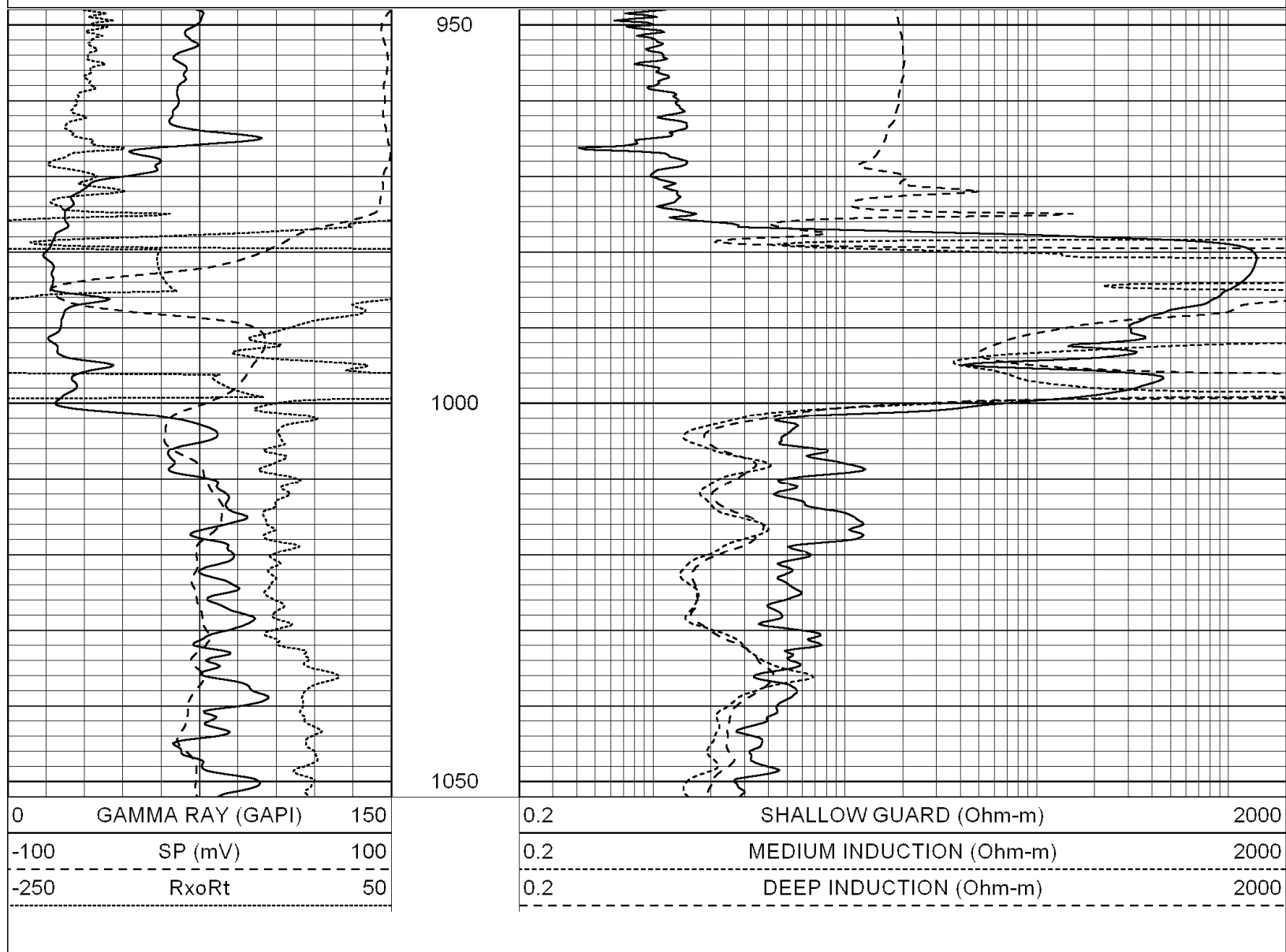


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MAIN SECTION

Database File: 003475ddn.db
 Dataset Pathname: pass3.1
 Presentation Format: dil
 Dataset Creation: Tue Jul 14 04:16:41 2009 by Calc Open-Cased 051020
 Charted by: Depth in Feet scaled 1:240

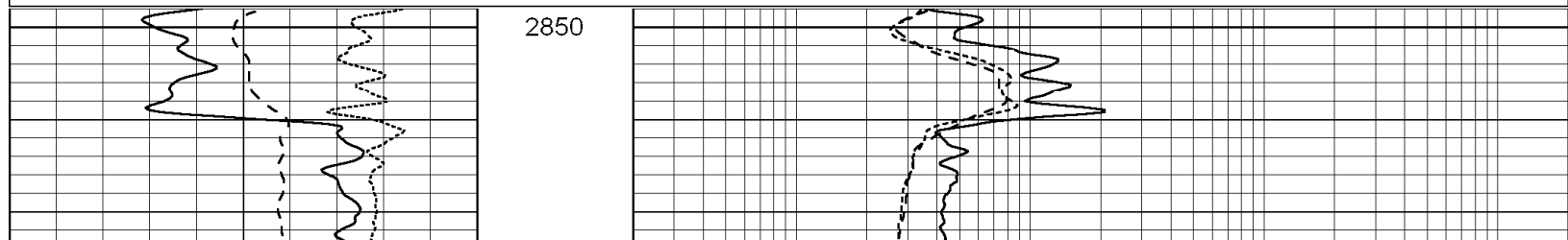
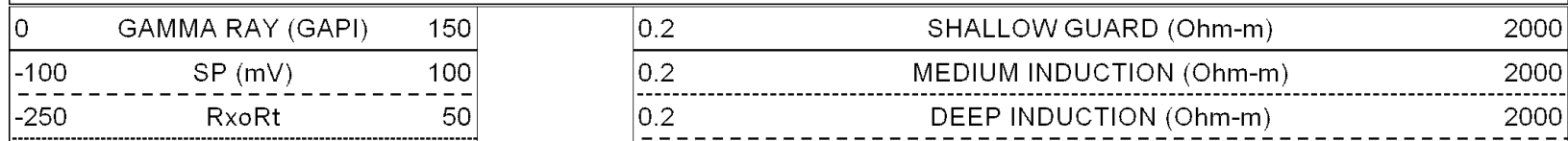
0	GAMMA RAY (GAPI)	150	0.2	SHALLOW GUARD (Ohm-m)	2000
-100	SP (mV)	100	0.2	MEDIUM INDUCTION (Ohm-m)	2000
-250	RxoRt	50	0.2	DEEP INDUCTION (Ohm-m)	2000

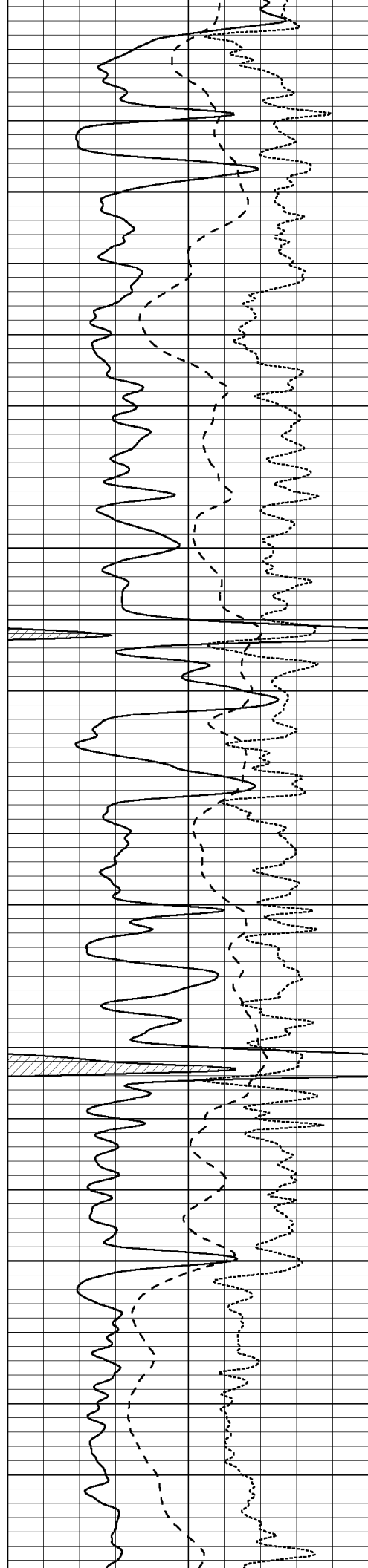


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MAIN SECTION

Database File: 003475ddn.db
Dataset Pathname: pass3.1A
Presentation Format: dil
Dataset Creation: Tue Jul 14 04:23:06 2009 by Calc Open-Cased 051020
Charted by: Depth in Feet scaled 1:240



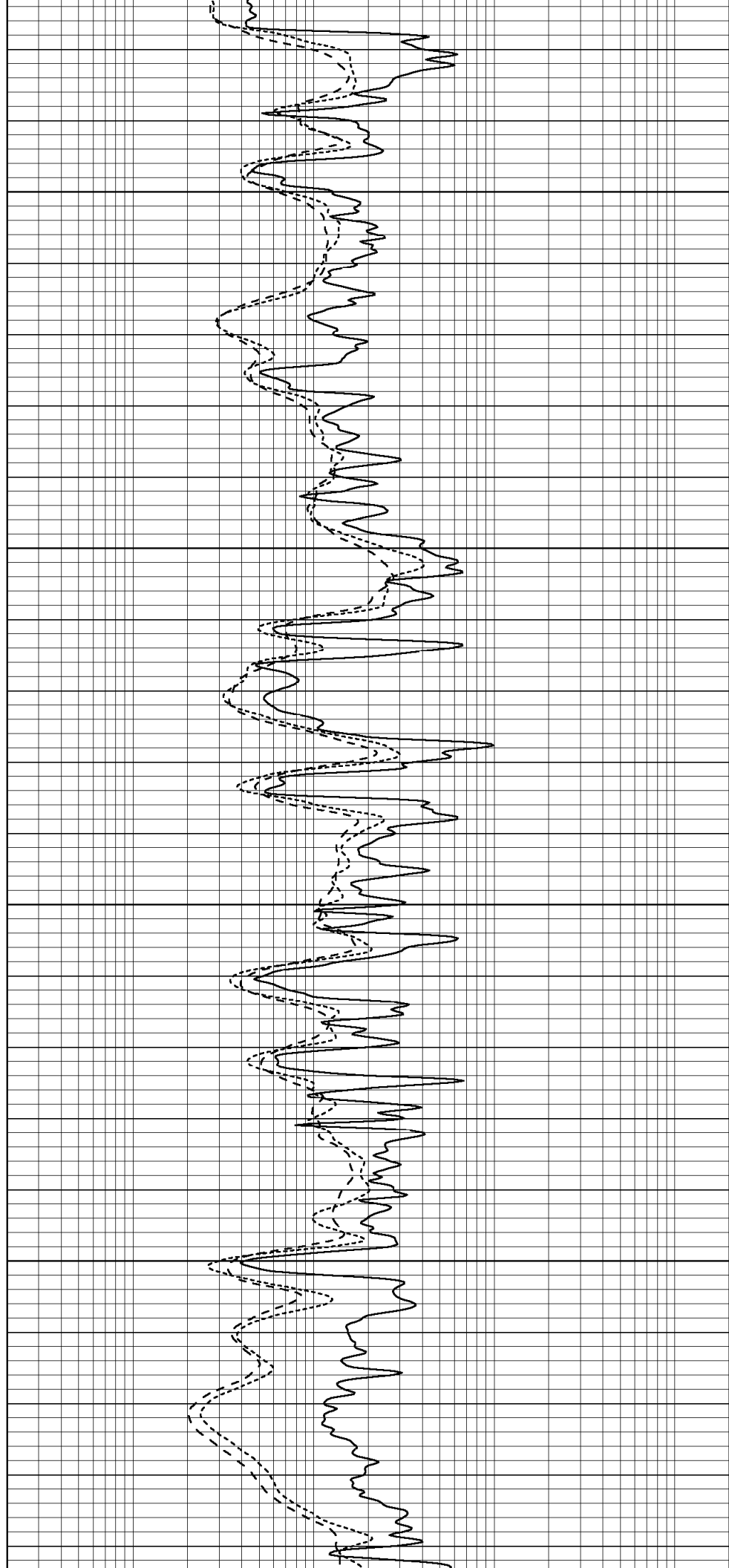


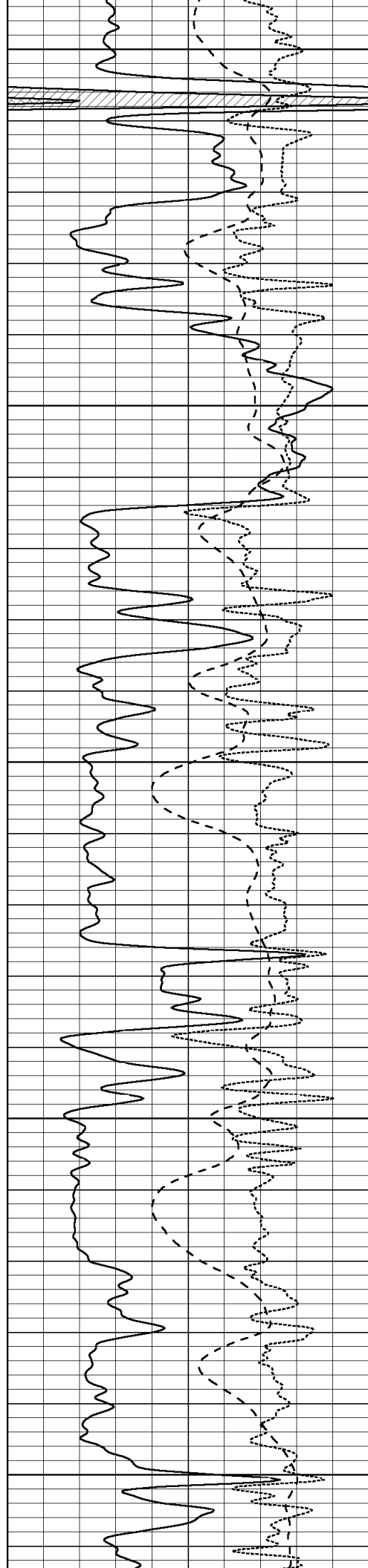
2900

2950

3000

3050





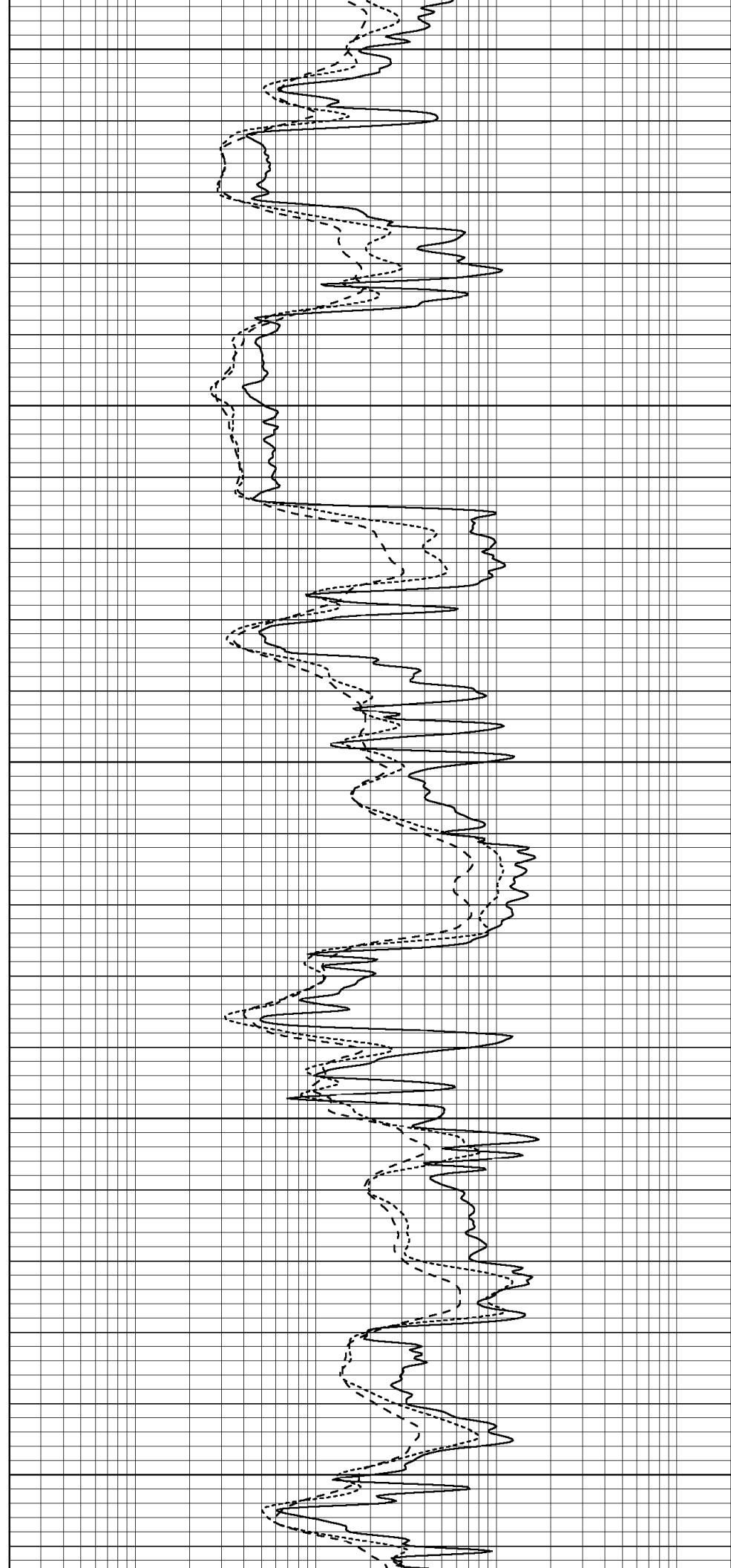
3100

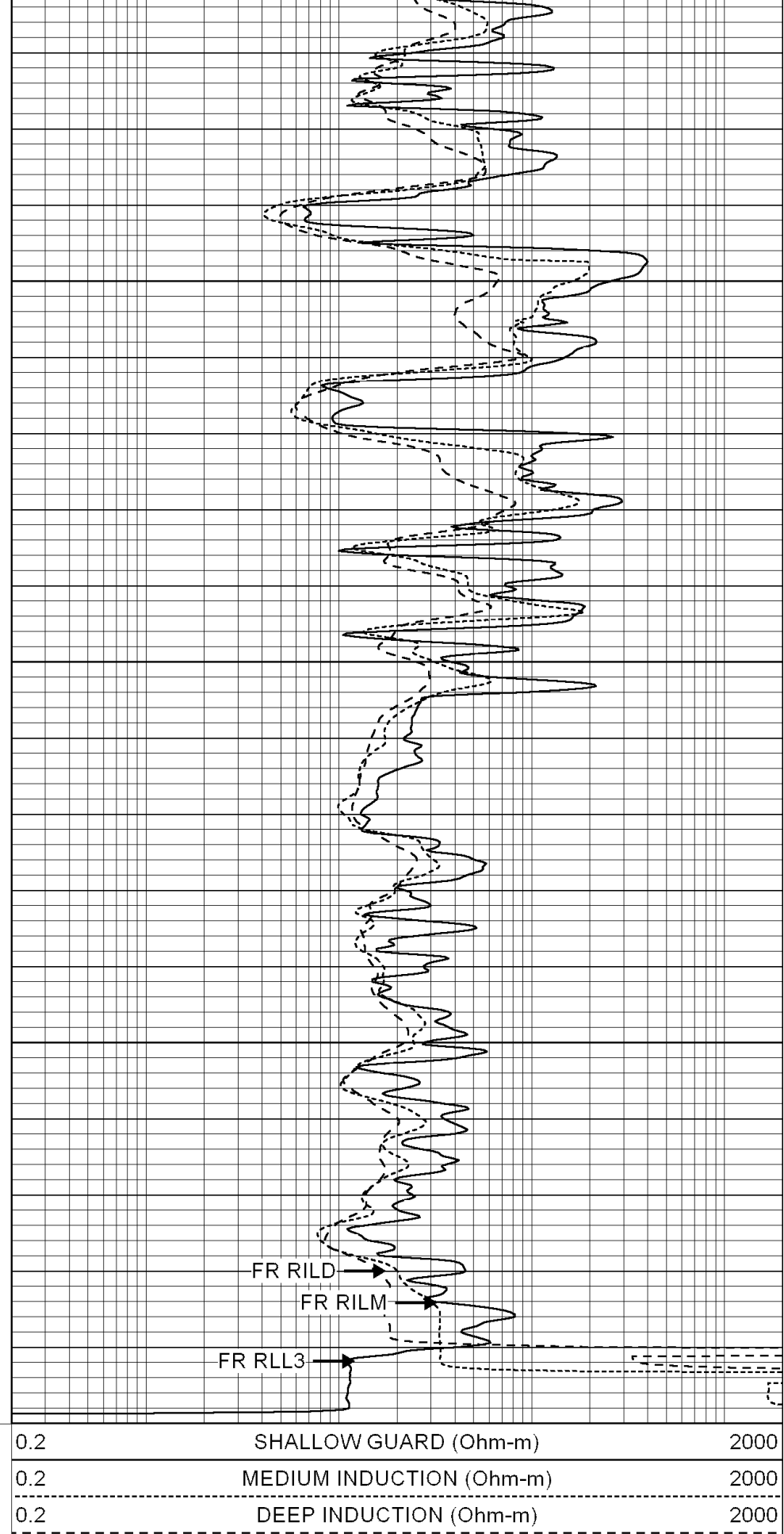
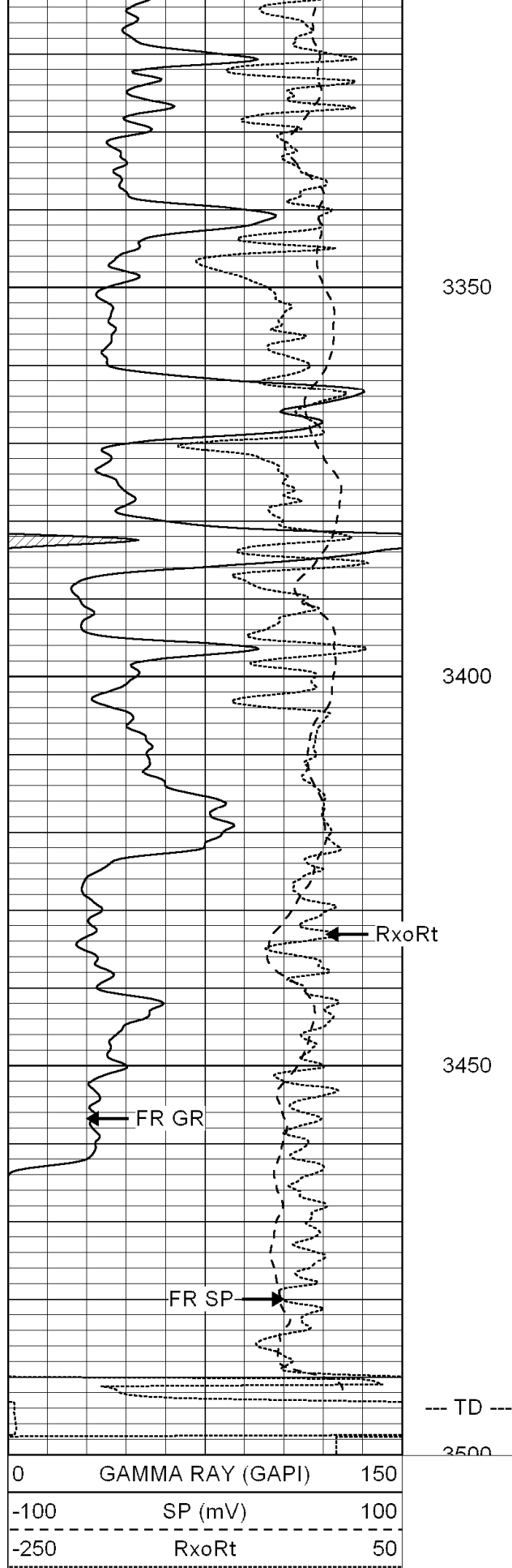
3150

3200

3250

3300







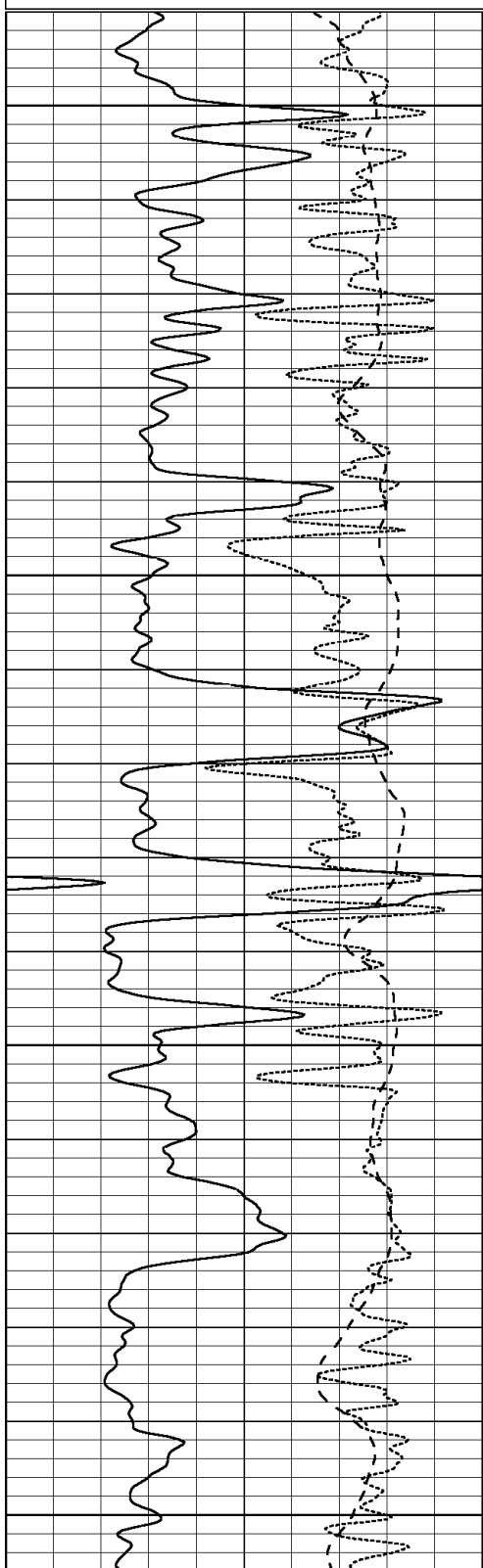
Hays,
Kansas

REPEAT SECTION

Database File: 003475ddn.db
Dataset Pathname: pass2.A
Presentation Format: dil
Dataset Creation: Tue Jul 14 05:07:54 2009
Charted by: Depth in Feet scaled 1:240

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

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

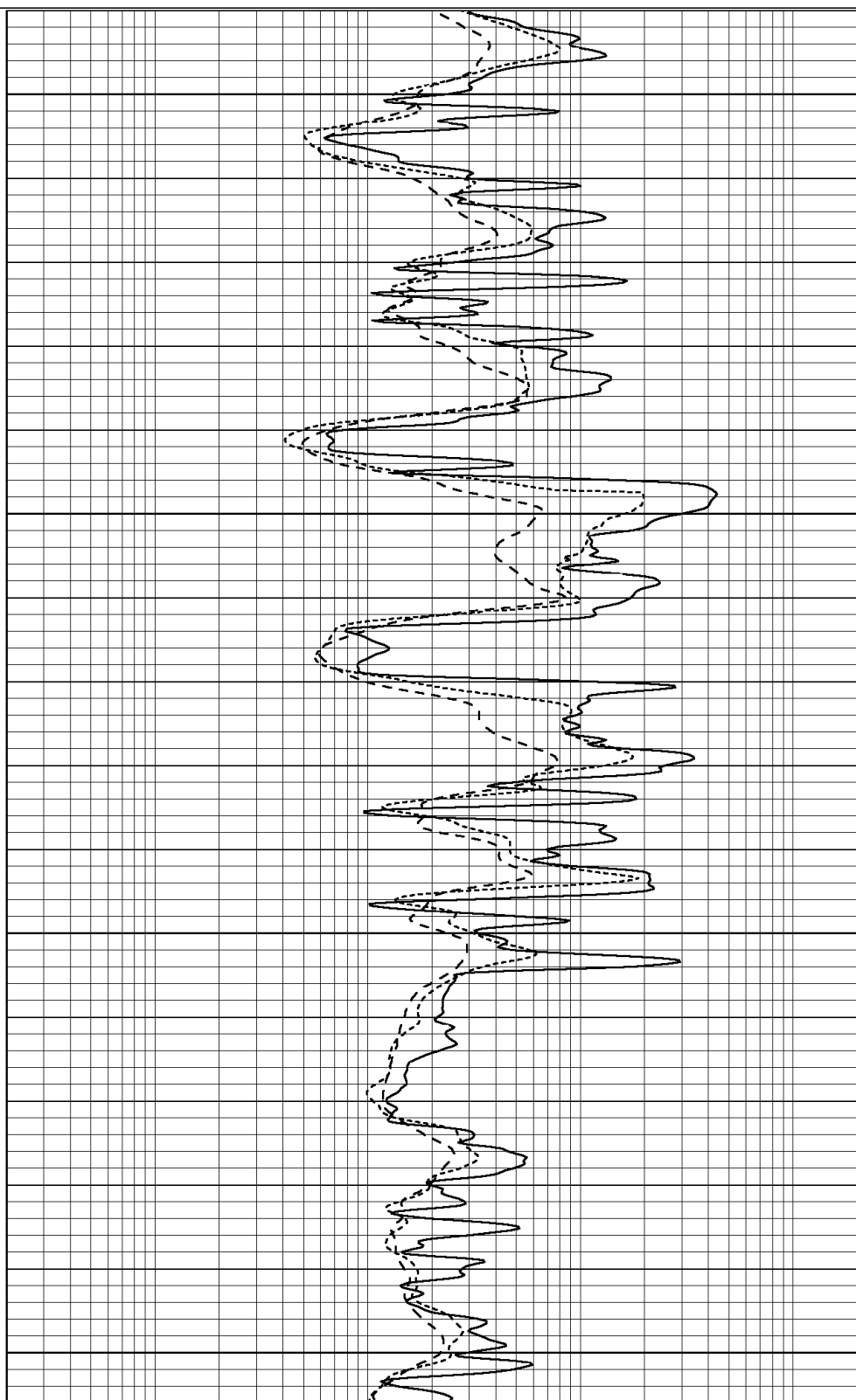


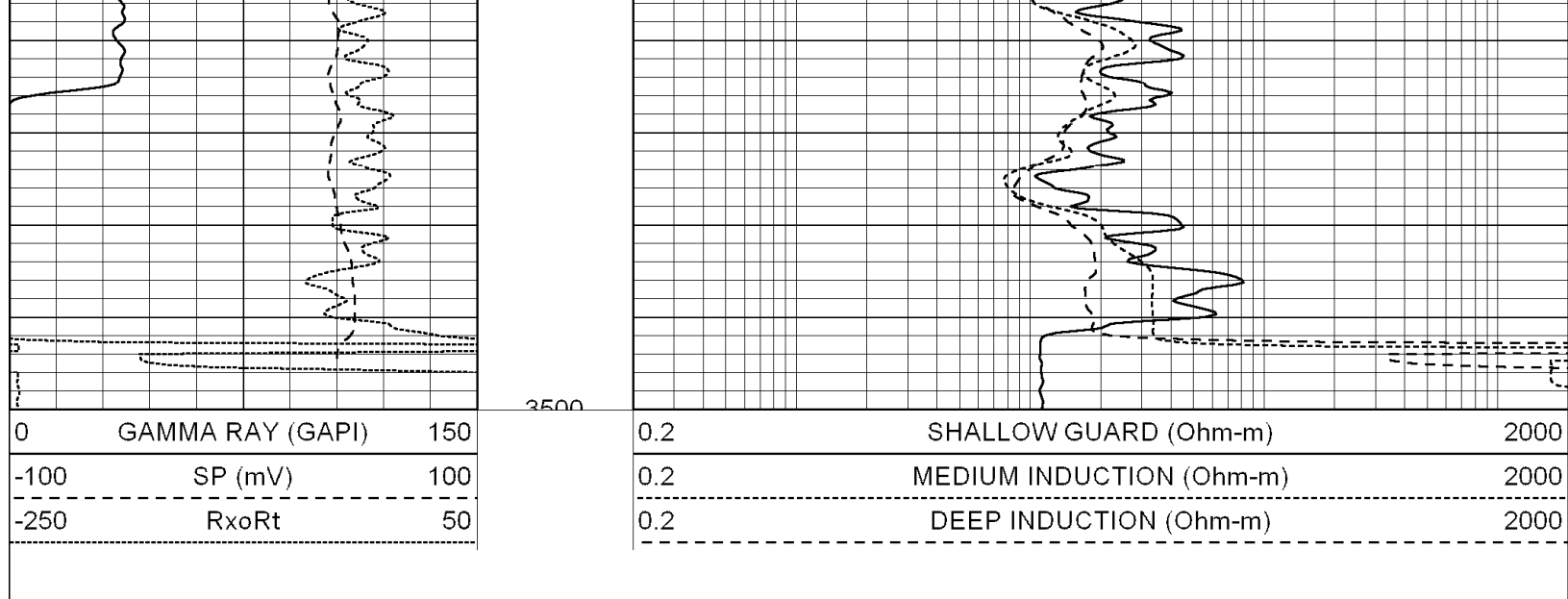
3300

3350

3400

3450





Calibration Report

Database File: 003475ddn.db
 Dataset Pathname: pass3.1A
 Dataset Creation: Tue Jul 14 04:23:06 2009 by Calc Open-Cased 051020

Dual Induction Calibration Report

Serial-Model: DIL5-GEAR
 Performed: Tue Jul 14 03:22:41 2009

Readings				References			Results	
Loop:	Air	Loop		Air	Loop		m	b
Deep	0.004	0.654	V	0.000	400.000	mmho-m	510.000	-7.000
Medium	-0.005	0.737	V	0.000	462.500	mmho-m	490.000	-10.000
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: Tue Jul 14 02:57:33 2009

Master Calibration

	Density			Far Detector	Near Detector	
Magnesium	1.710	g/cc		1006.91	528.07	cps
Aluminum	2.600	g/cc		233.49	355.80	cps
Spine Angle = 74.88				Density/Spine Ratio = 0.588		
	Size			Reading		
Small Ring	8.70	in		2.77	V	
Large Ring	13.80	in		4.14	V	

Compensated Neutron Calibration Report

Serial Number: NEU_11
 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:	Tue Jul 14 02:57:11 2009	
Calibrator Value:	1.0	GAPI
Background Reading:	0.0	cps
Calibrator Reading:	1.0	cps
Sensitivity:	0.5400	GAPI/cps