



SUPERIOR
Hays,
Kansas

DUAL
INDUCTION
LOG

Company	GREAT PLAINS ENERGY, INC.		
Well	MOFFET #1-32		
Field			
County	NORTON	State	KANSAS
Location:	API # : 15-137-20573		Other Services CDL/CNL MICRO/SONIC
SEC 32 TWP 2S RGE 23W		Elevation	
Permanent Datum	GROUND LEVEL	Elevation	2305
Log Measured From	KELLY BUSHING 5' A.G.L.	K.B. 2310'	D.F.
Drilling Measured From	KELLY BUSHING	G.L. 2305'	
Date	7-24-11		
Run Number	TWO		
Depth Driller	3640		
Depth Logger	3640		
Bottom Logged Interval	3638		
Top Log Interval	0.0		
Casing Driller	219		
Casing Logger	219		
Bit Size	7.85		
Type Fluid in Hole	CHEMICAL MUD		
Density / Viscosity	9.3 / 41		
pH / Fluid Loss	10.5 / 7.6		
Source of Sample	FLOWLINE		
Rim @ Meas. Temp	1.10 @ 84F		
Rmf @ Meas. Temp	0.83 @ 84F		
Rmc @ Meas. Temp	1.32 @ 84F		
Source of Rmf / Rmc	MEASURED		
Rim @ BHT	.830 @ 111F		
Time Circulation Stopped	2 NHOURS		
Time Logger on Bottom	9:15 A.M.		
Maximum Recorded Temperature	111F		
Equipment Number	860		
Location	HAYS, KS.		
Recorded By	RUPP		
Witnessed By	RICHARD BELL		

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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: NORTON, 2W TO W2 RD., 3/4N, W INTO.



SUPERIOR
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MAIN SETION

Database File: 007335ddn.db
 Dataset Pathname: pass6.1
 Presentation Format: dil2
 Dataset Creation: Sun Jul 24 12:50:12 2011 by Calc Open-Cased 090629
 Charted by: Depth in Feet scaled 1:600

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

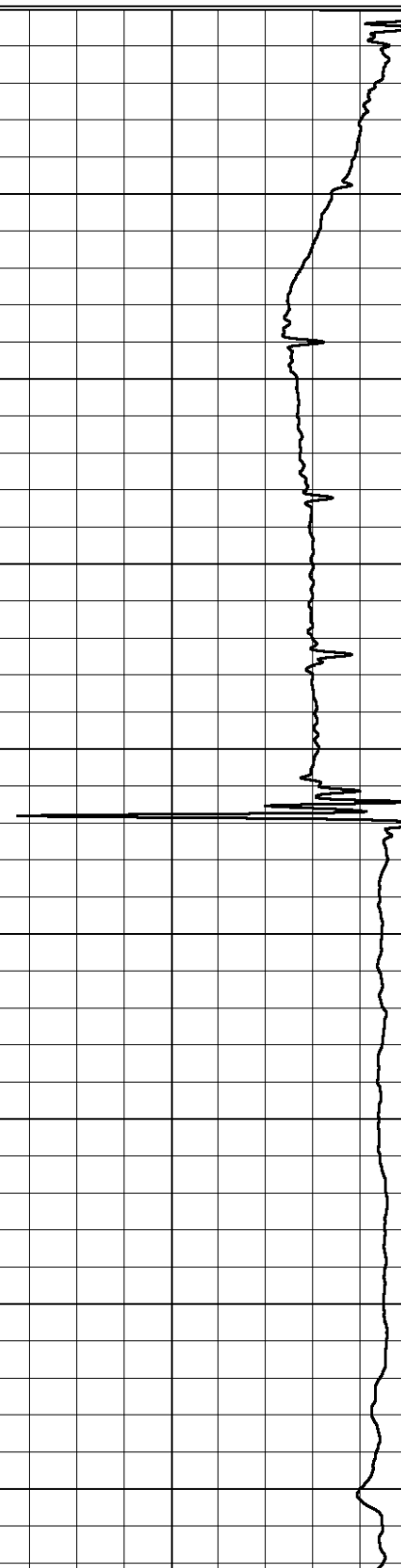
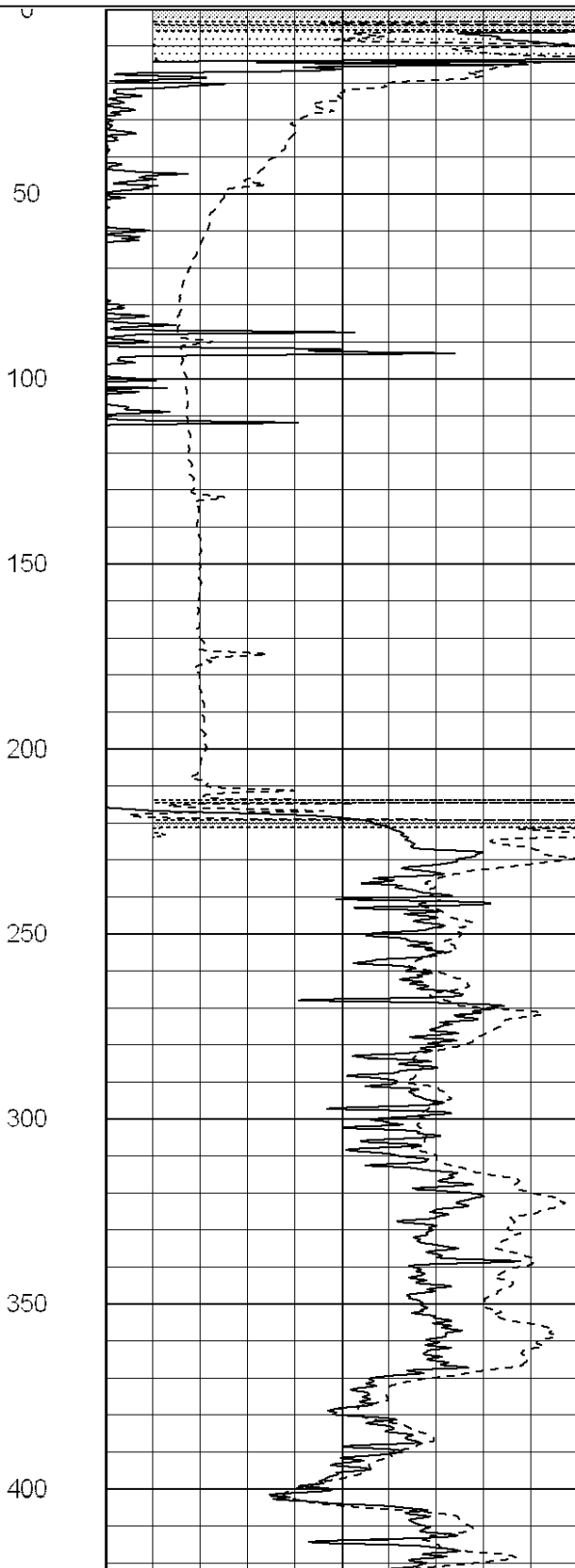
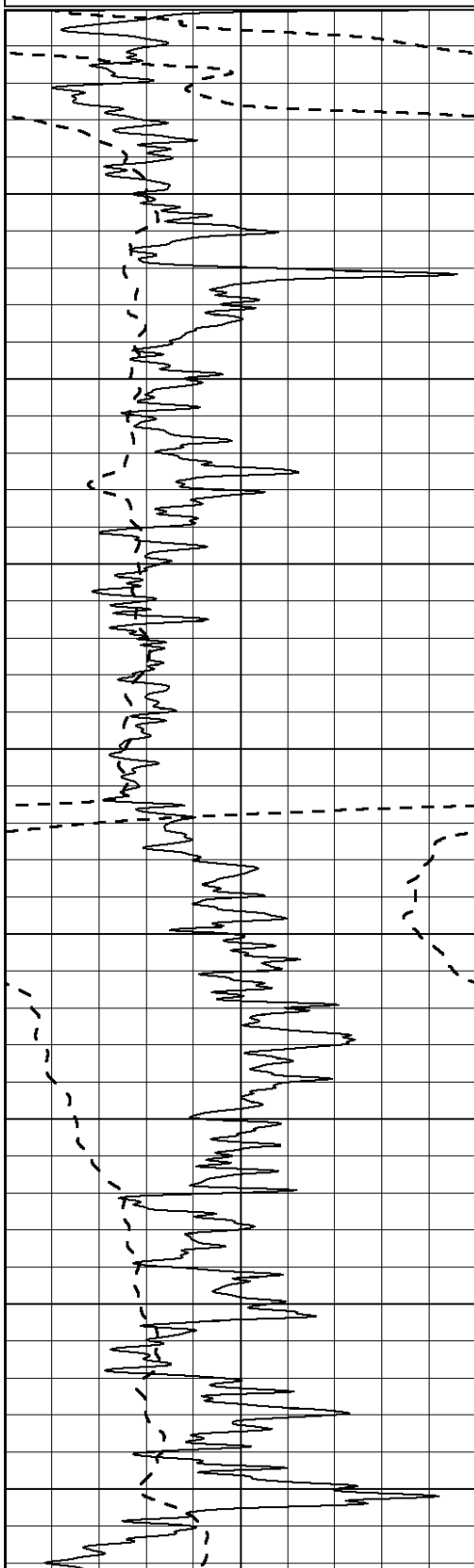
0	RLL3 (Ohm-m)	50
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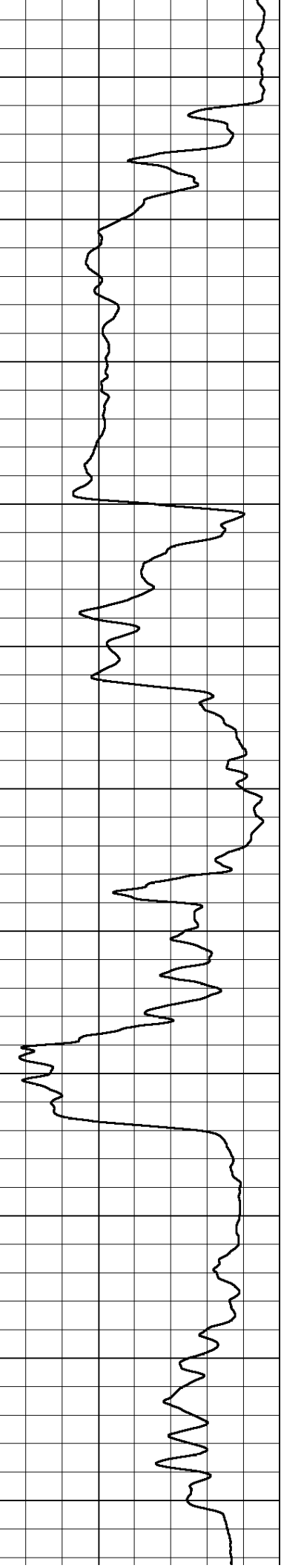
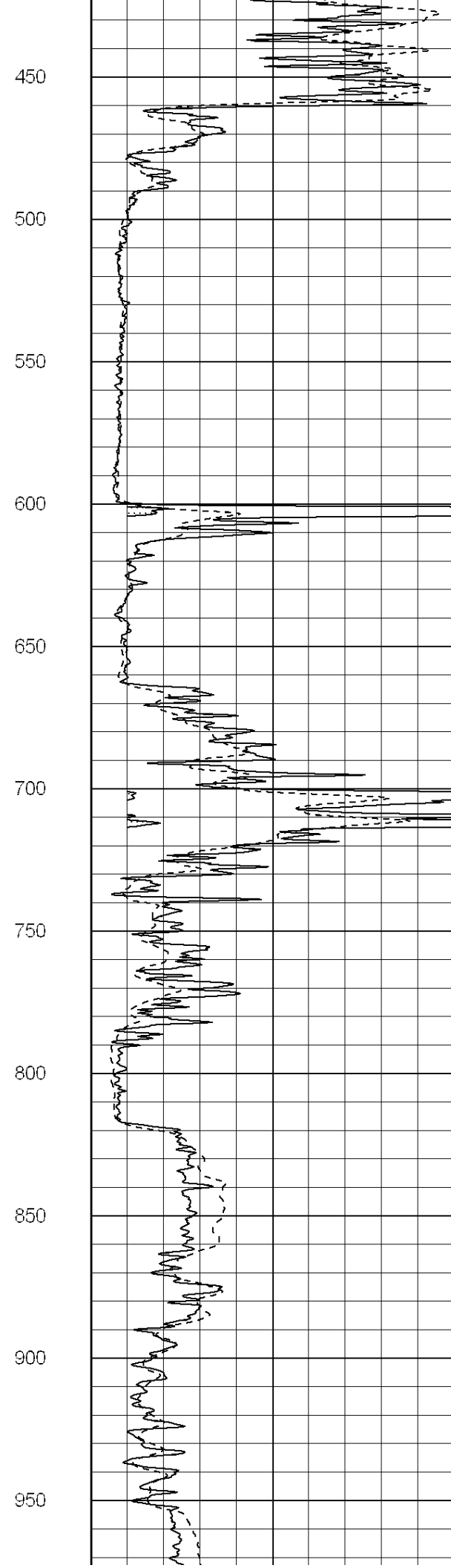
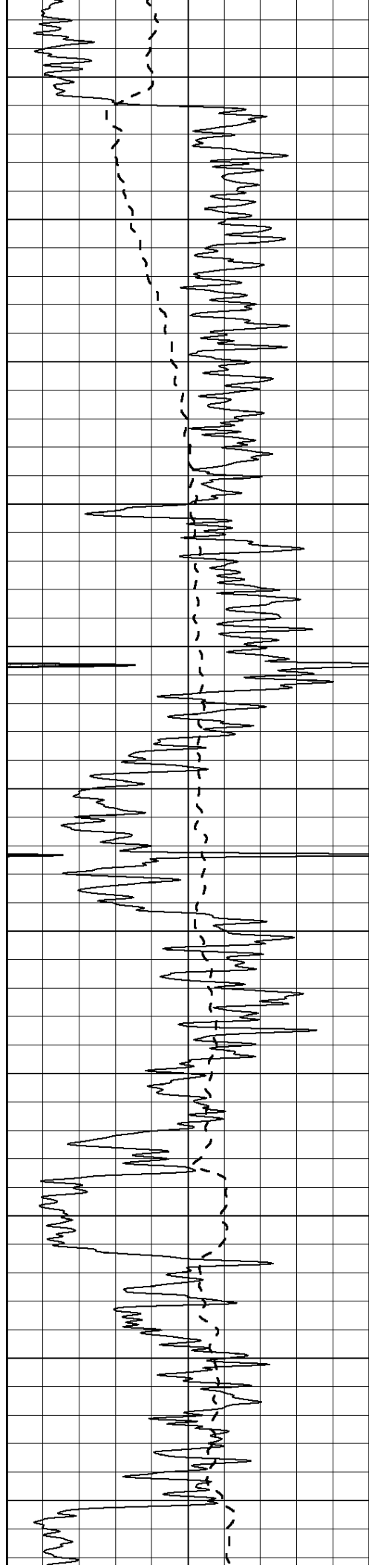
0	Deep Induction (Ohm-m)	50
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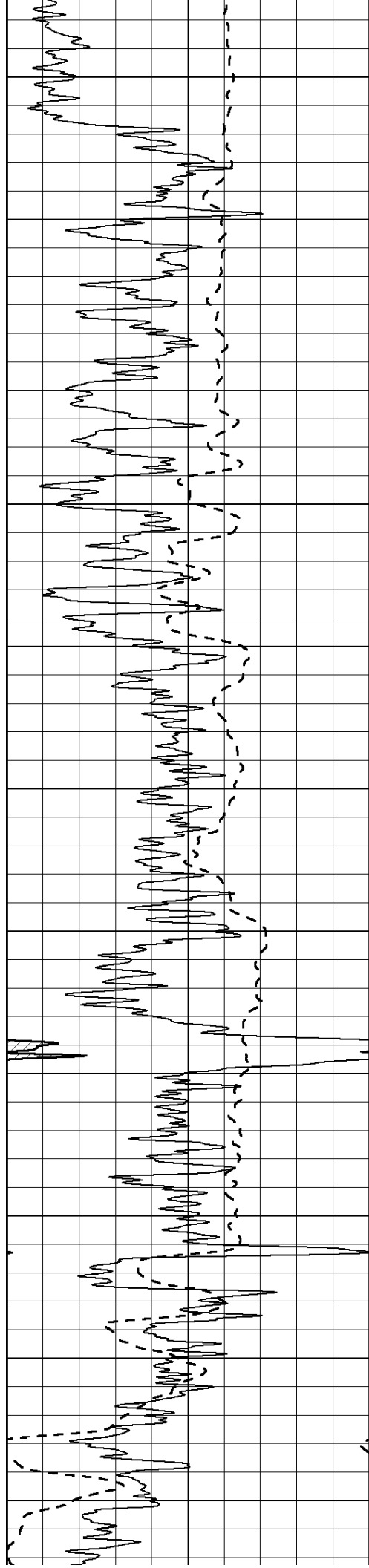
1000	CILD (mmho/m)	0
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50	RILD X10 (Ohm-m)	500
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50	RLL3 X10 (Ohm-m)	500
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1000

1050

1100

1150

1200

1250

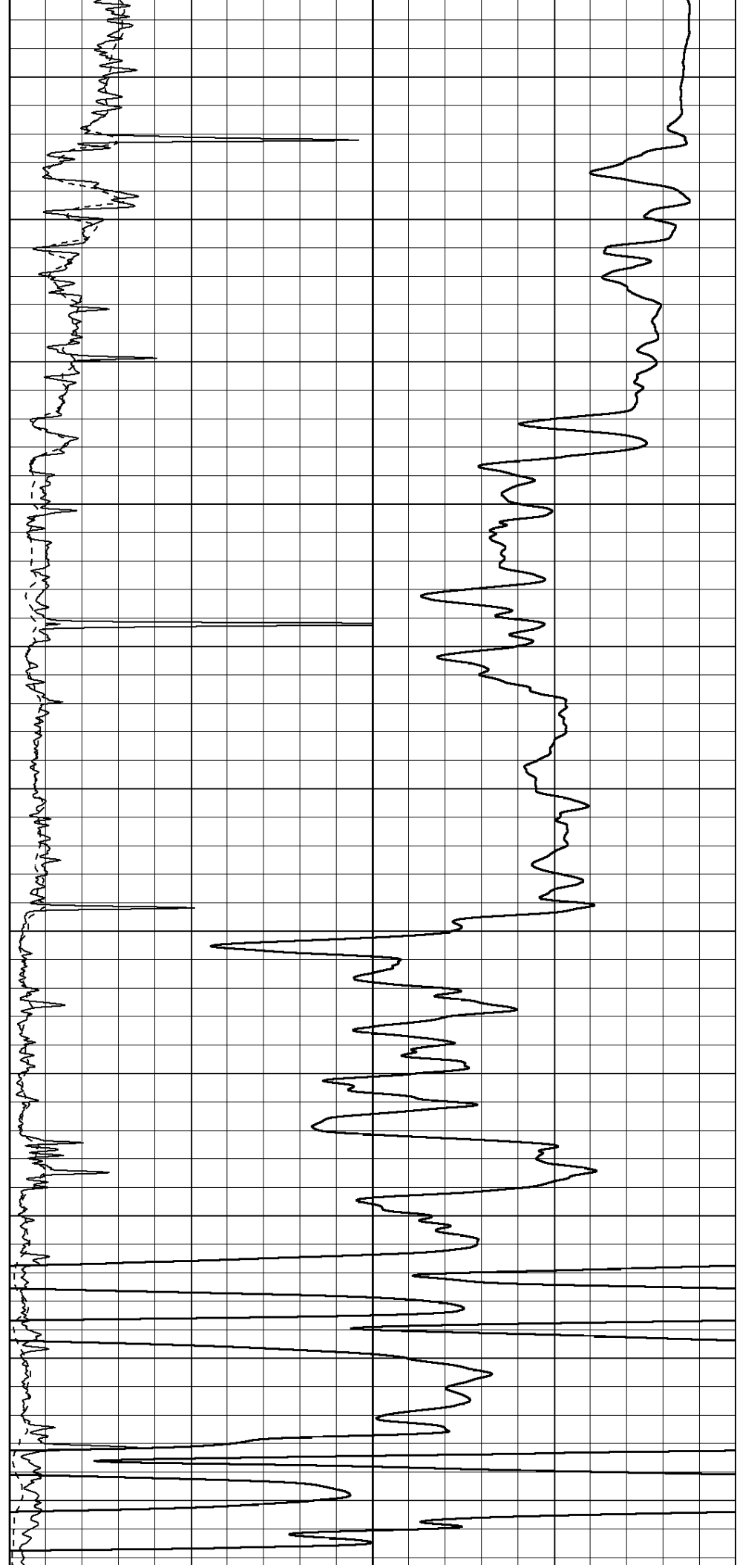
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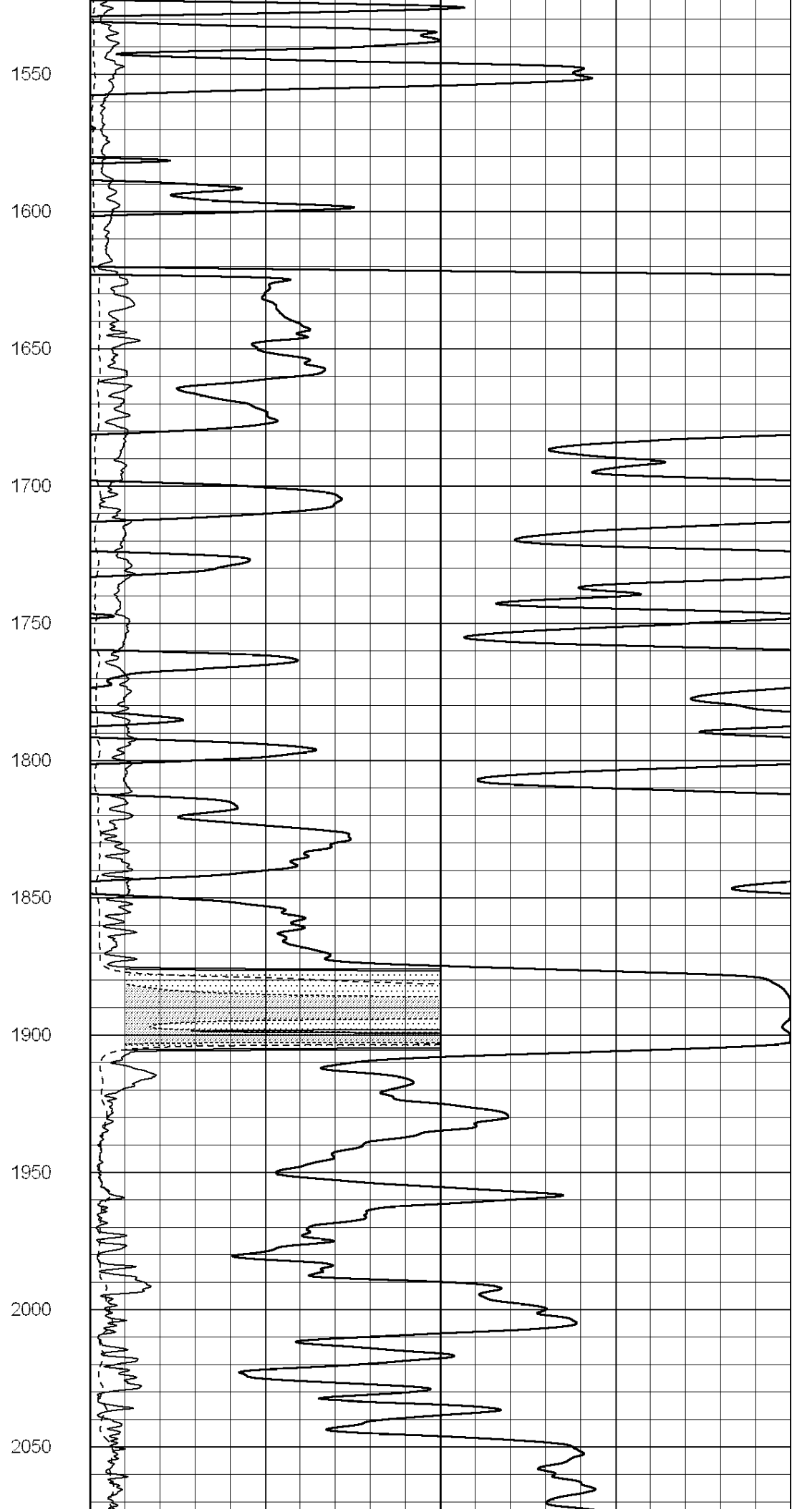
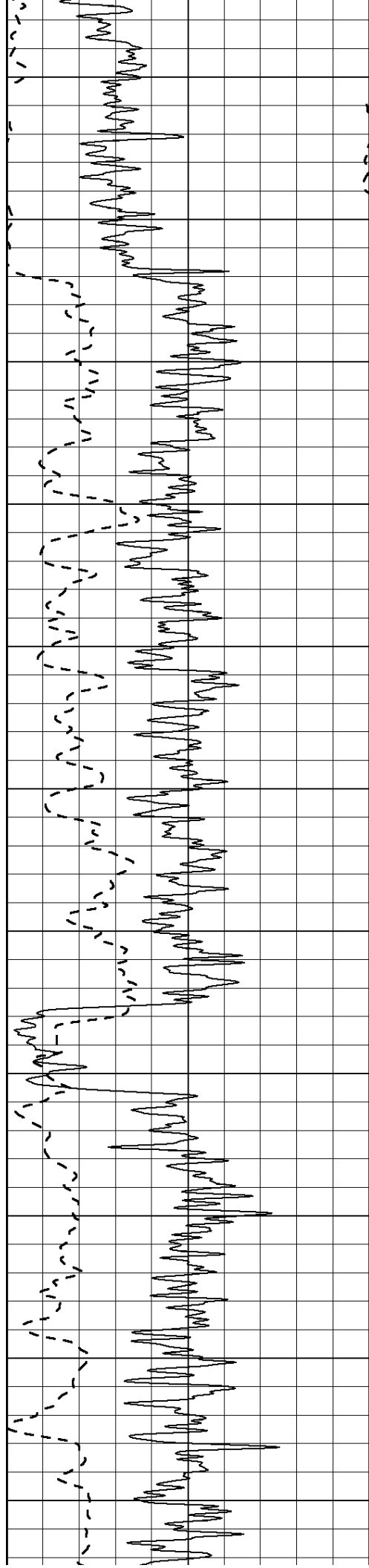
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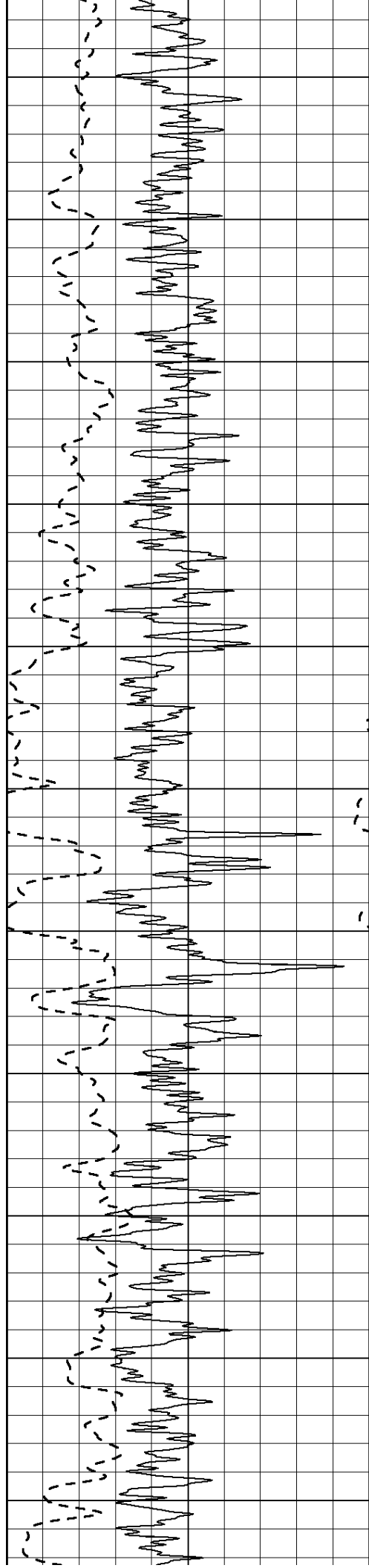
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1450

1500







2100

2150

2200

2250

2300

2350

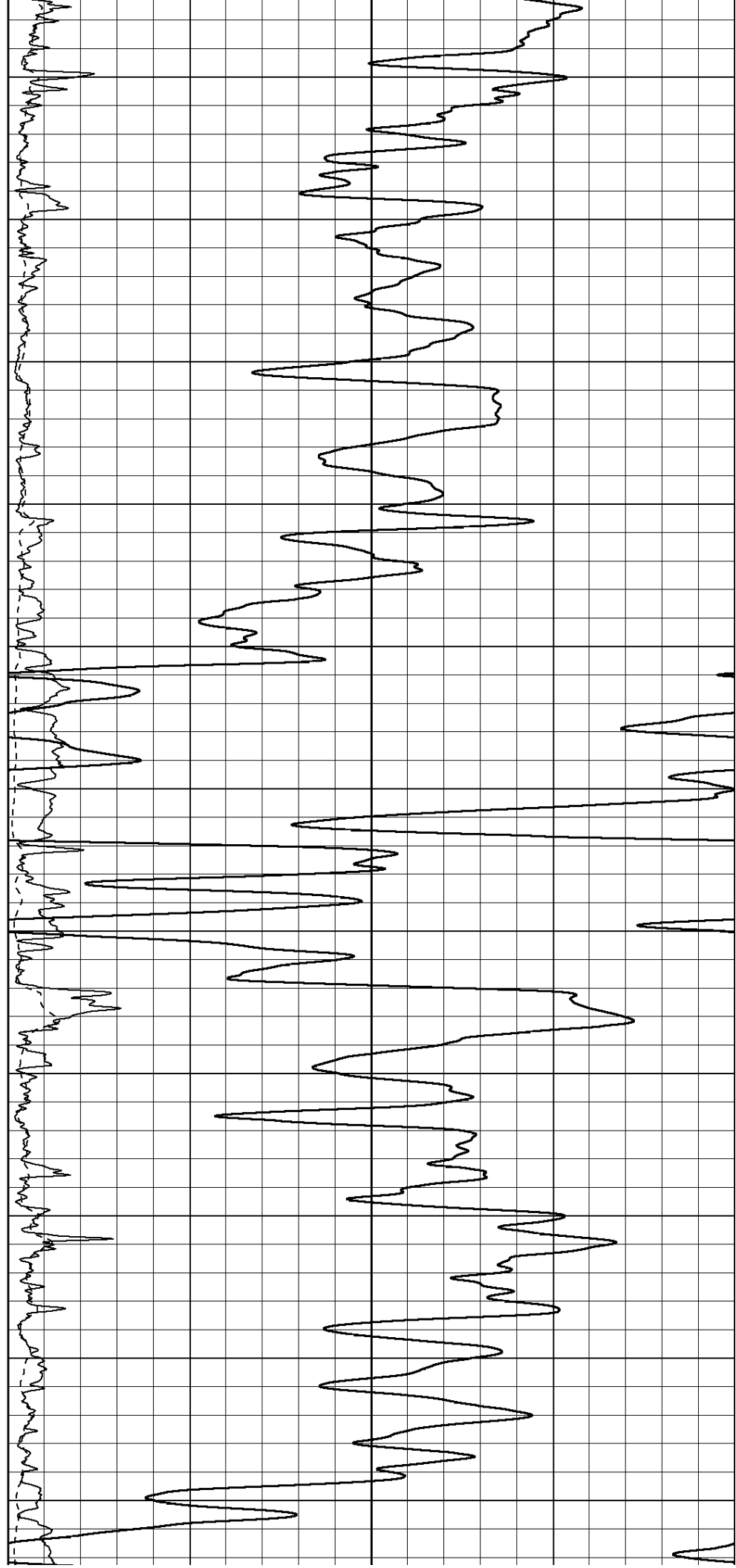
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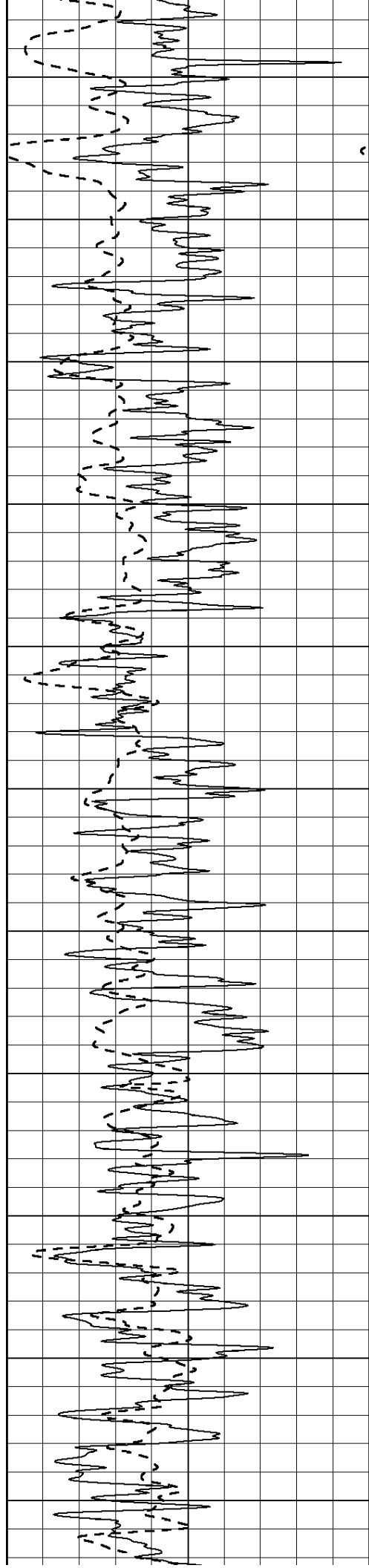
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2500

2550

2600





2650

2700

2750

2800

2850

2900

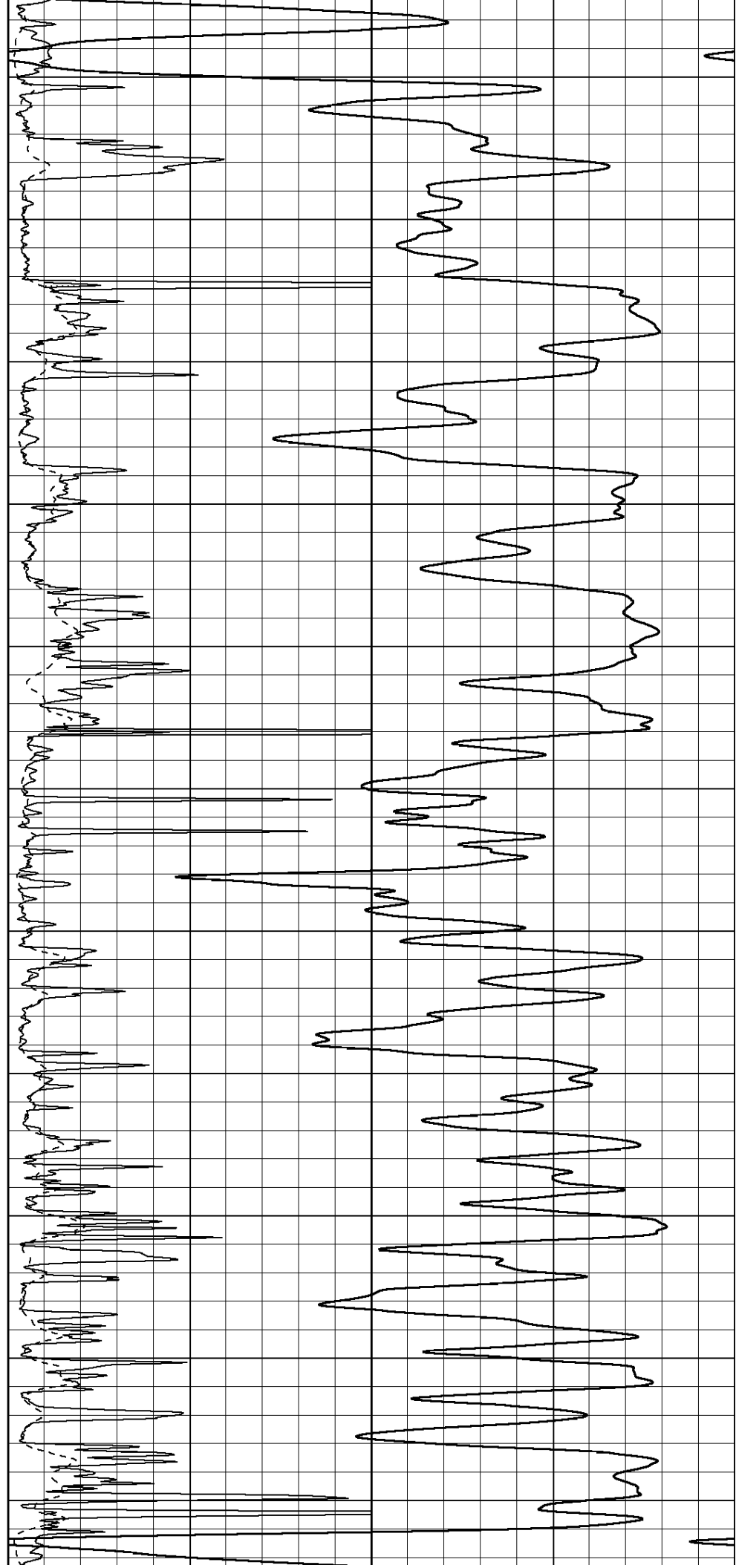
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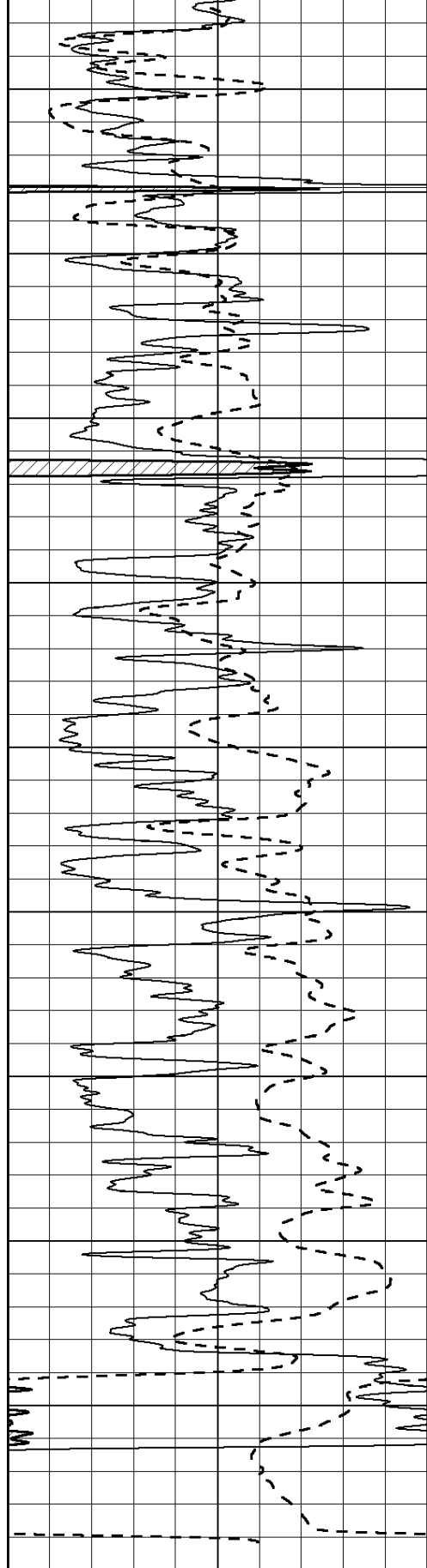
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3050

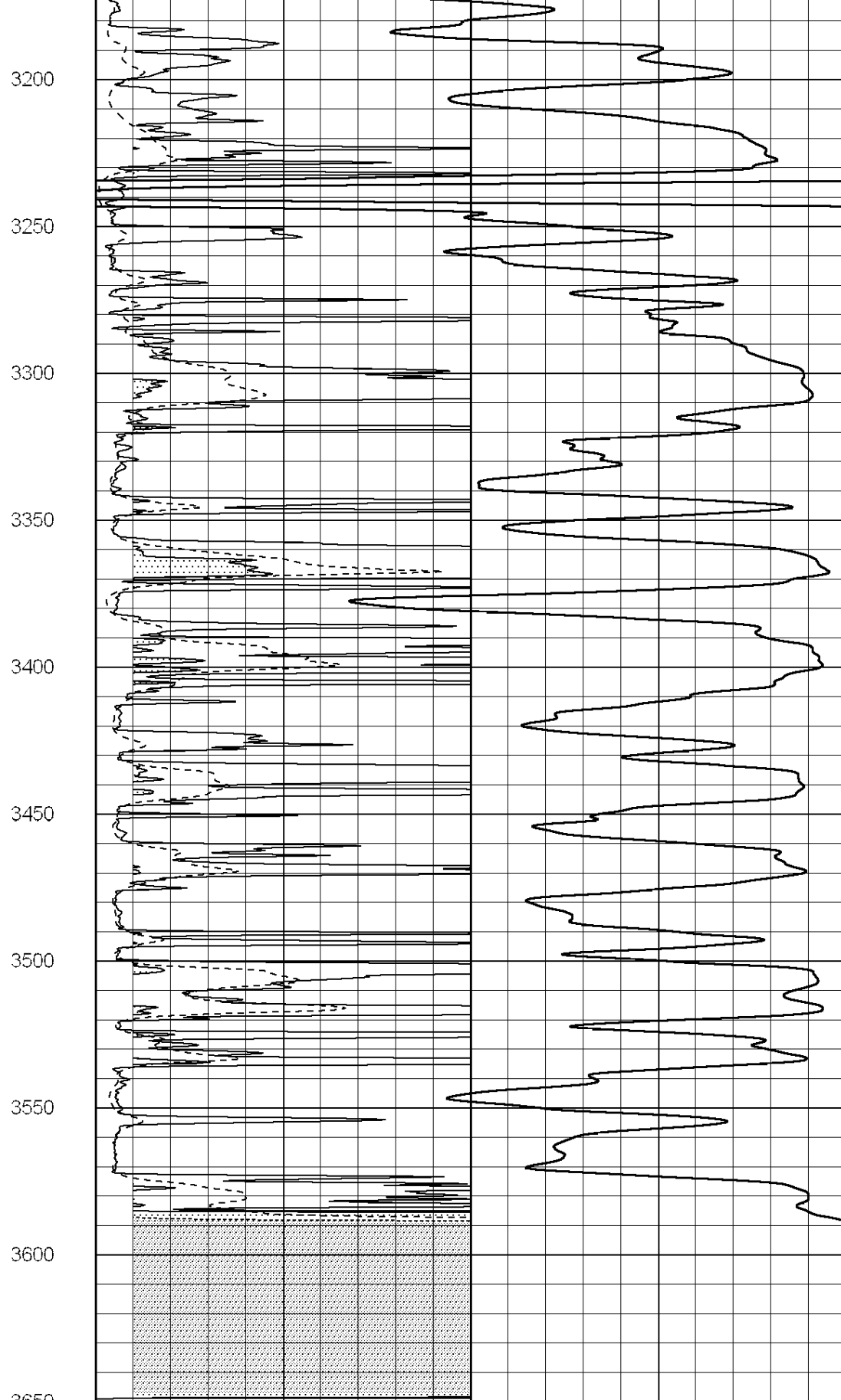
3100

3150





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



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



SUPERIOR

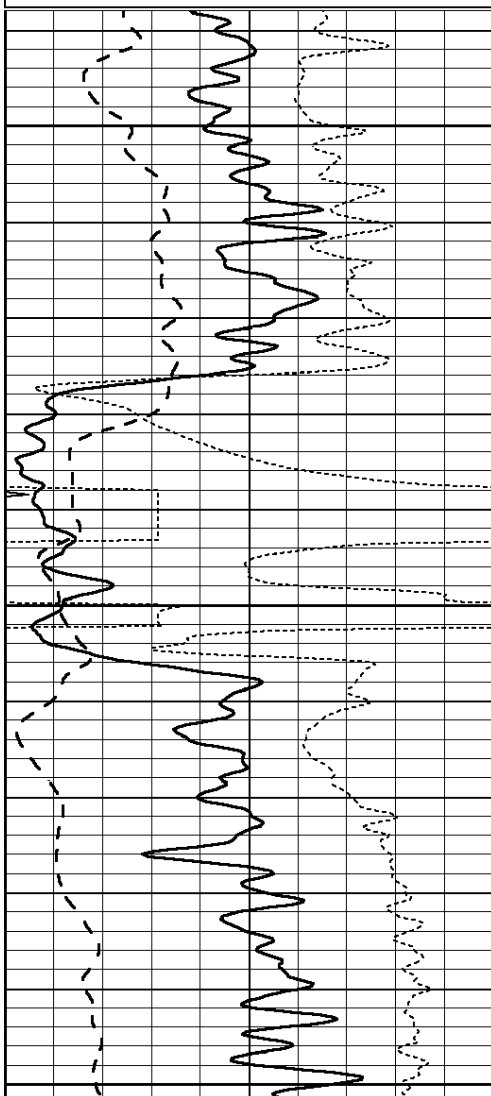
Hays,
Kansas

MAIN SETION

Database File: 007335ddn.db
Dataset Pathname: pass6.1
Presentation Format: dil
Dataset Creation: Sun Jul 24 12:50:12 2011 by Calc Open-Cased 090629
Charted by: Depth in Feet scaled 1:240

0	GAMMA RAY (GAPI)	150
-100	SP (mV)	100
-250	RxoRt	50
0	MINMK	20

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

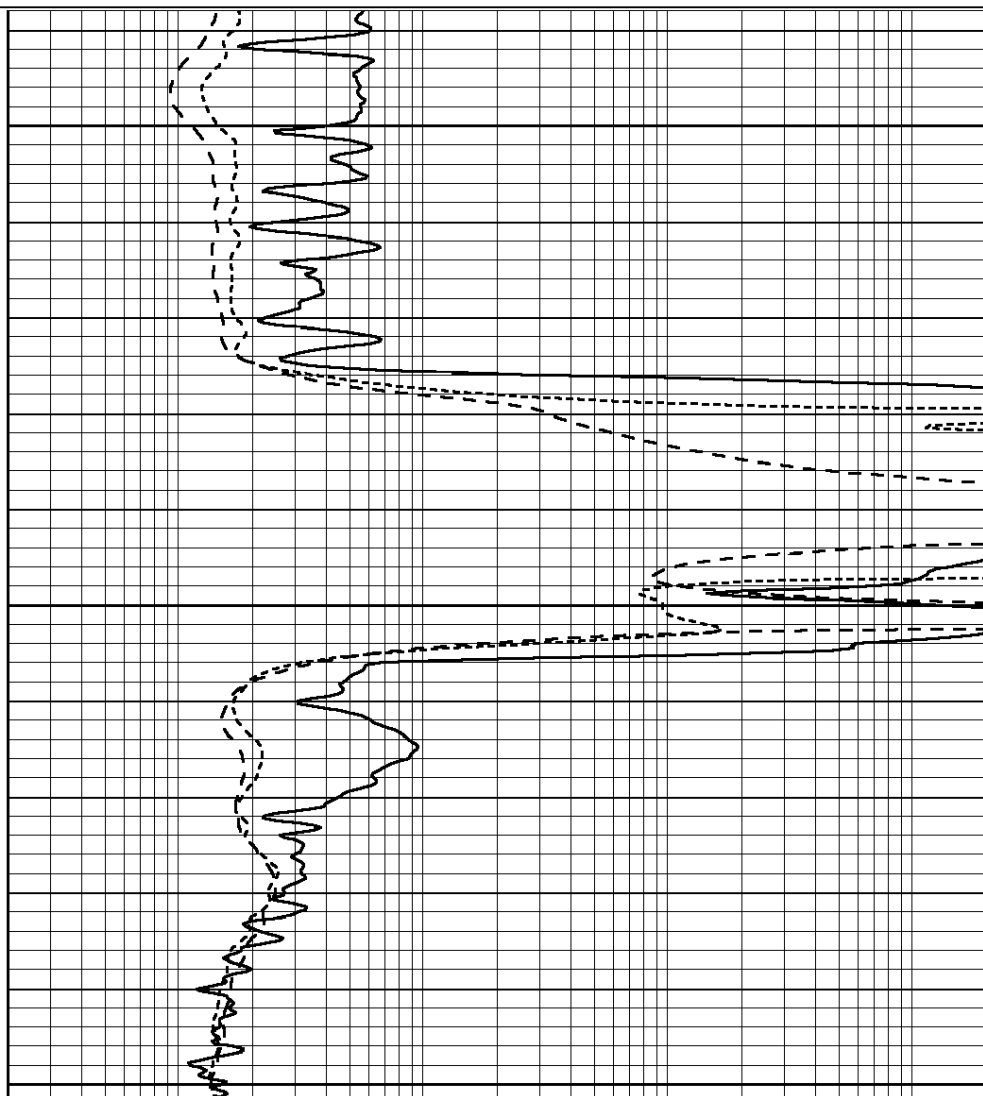


1850

1900

1950

0	GAMMA RAY (GAPI)	150
-100	SP (mV)	100
-250	RxoRt	50
0	MINMK	20



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



SUPERIOR

MAIN SETION



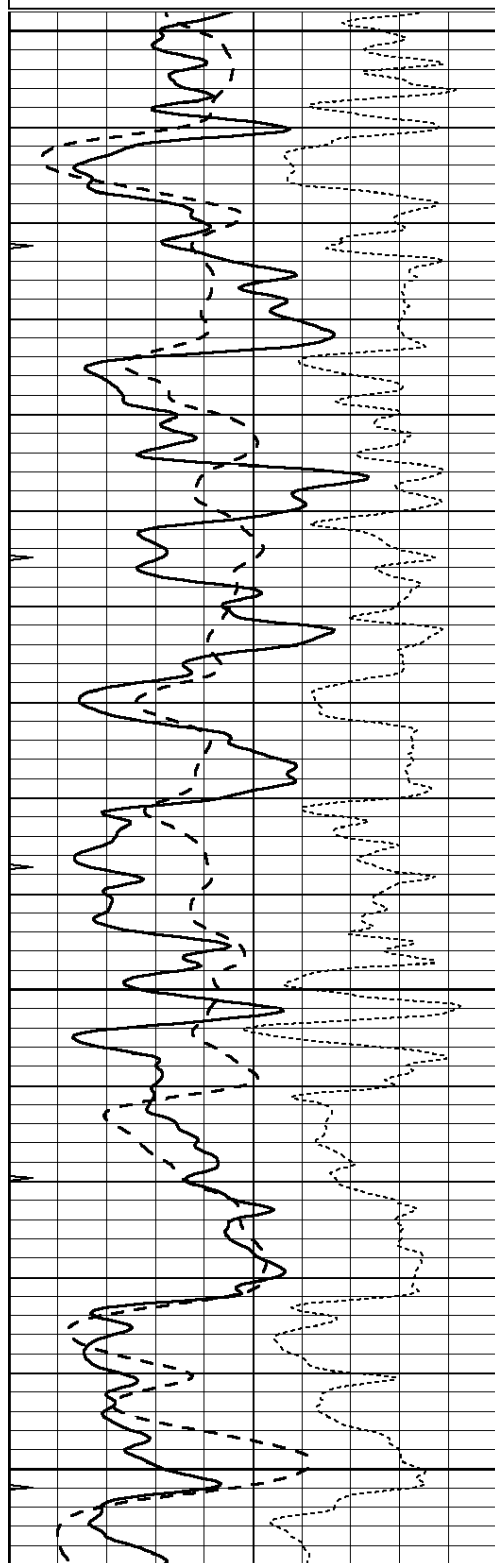
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Dataset Creation: Sun Jul 24 12:50:12 2011 by Calc Open-Cased 090629
Charted by: Depth in Feet scaled 1:240

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-100	SP (mV)	100
-250	RxoRt	50
0	MINMK	20

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

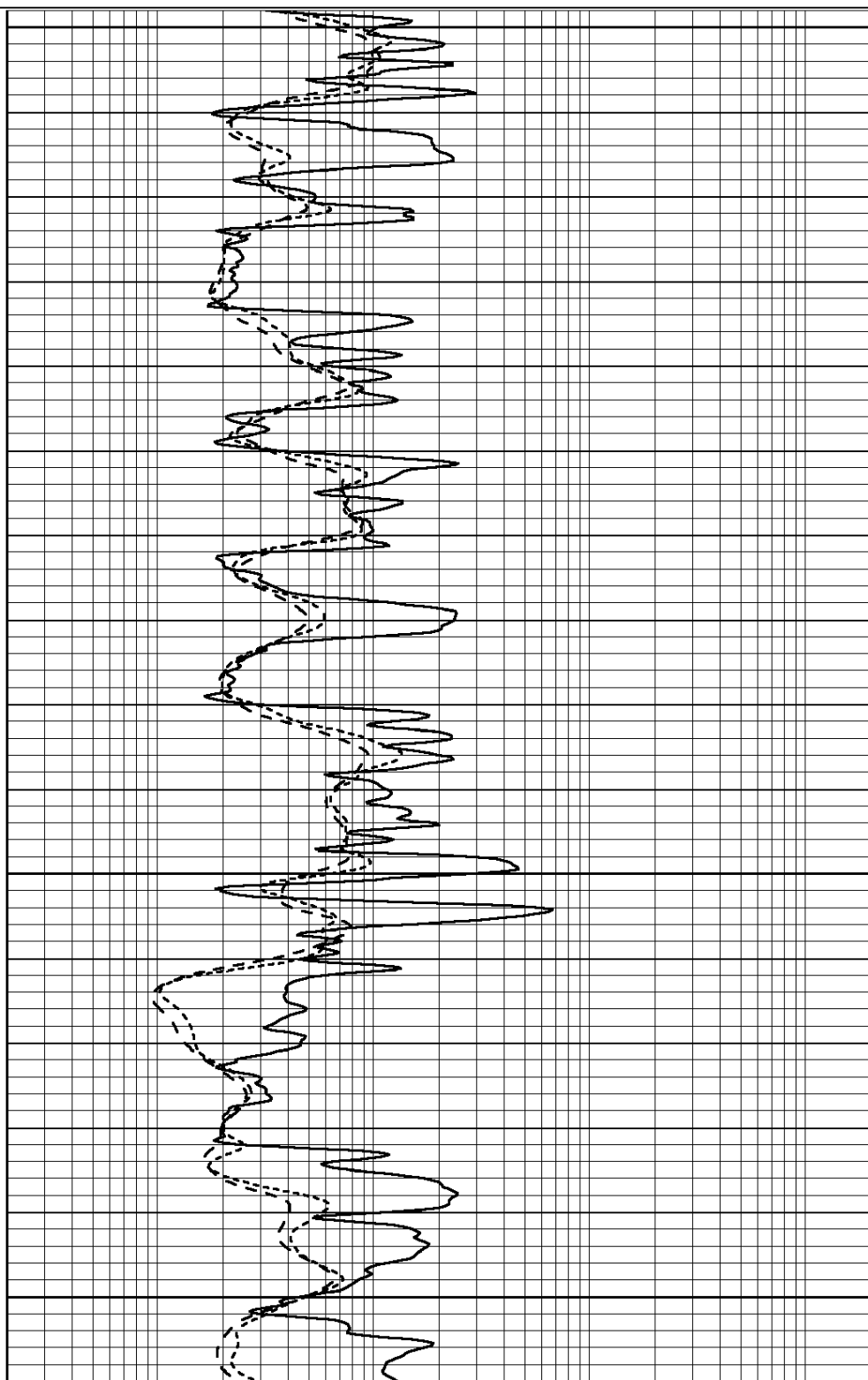


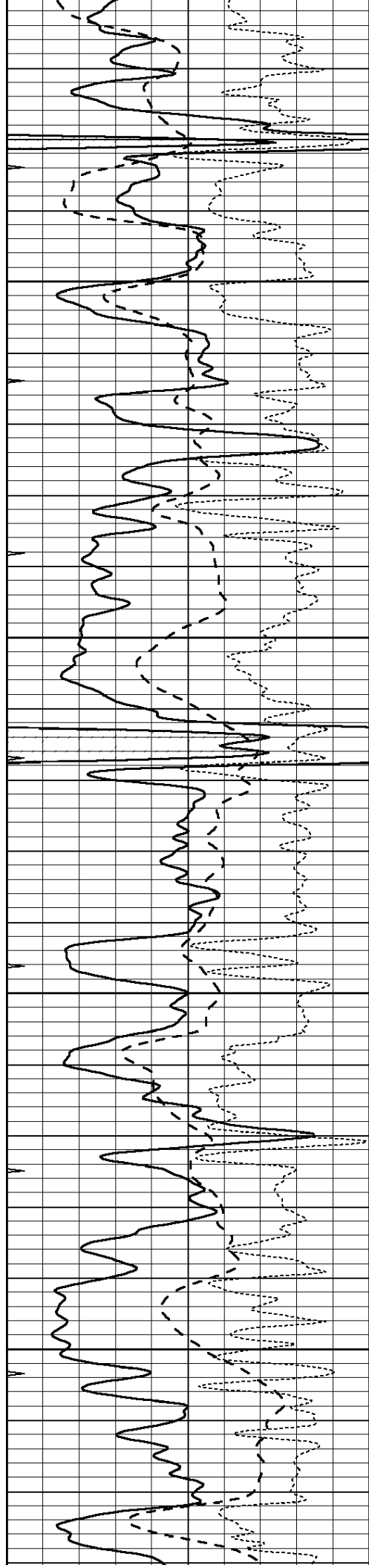
3050

3100

3150

3200



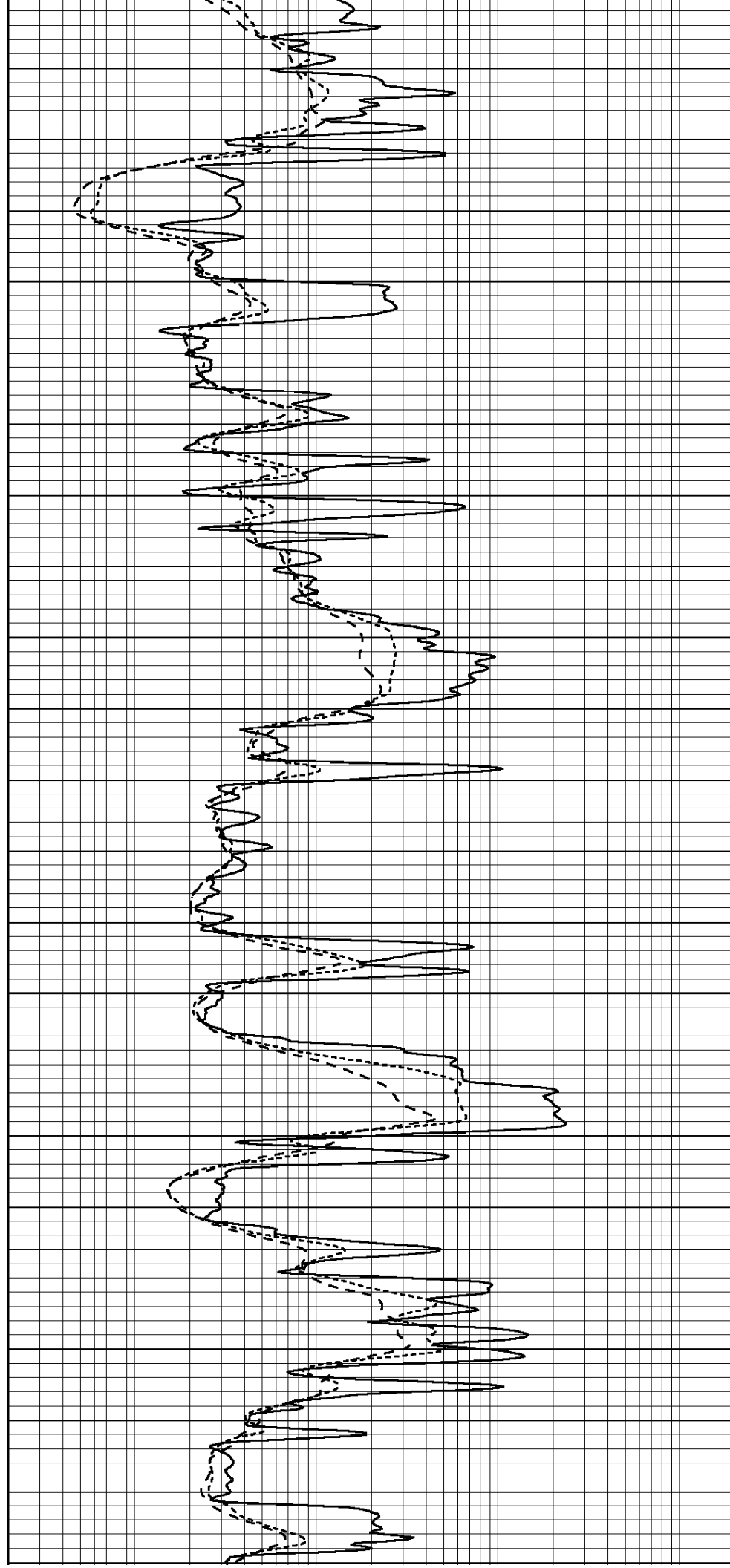


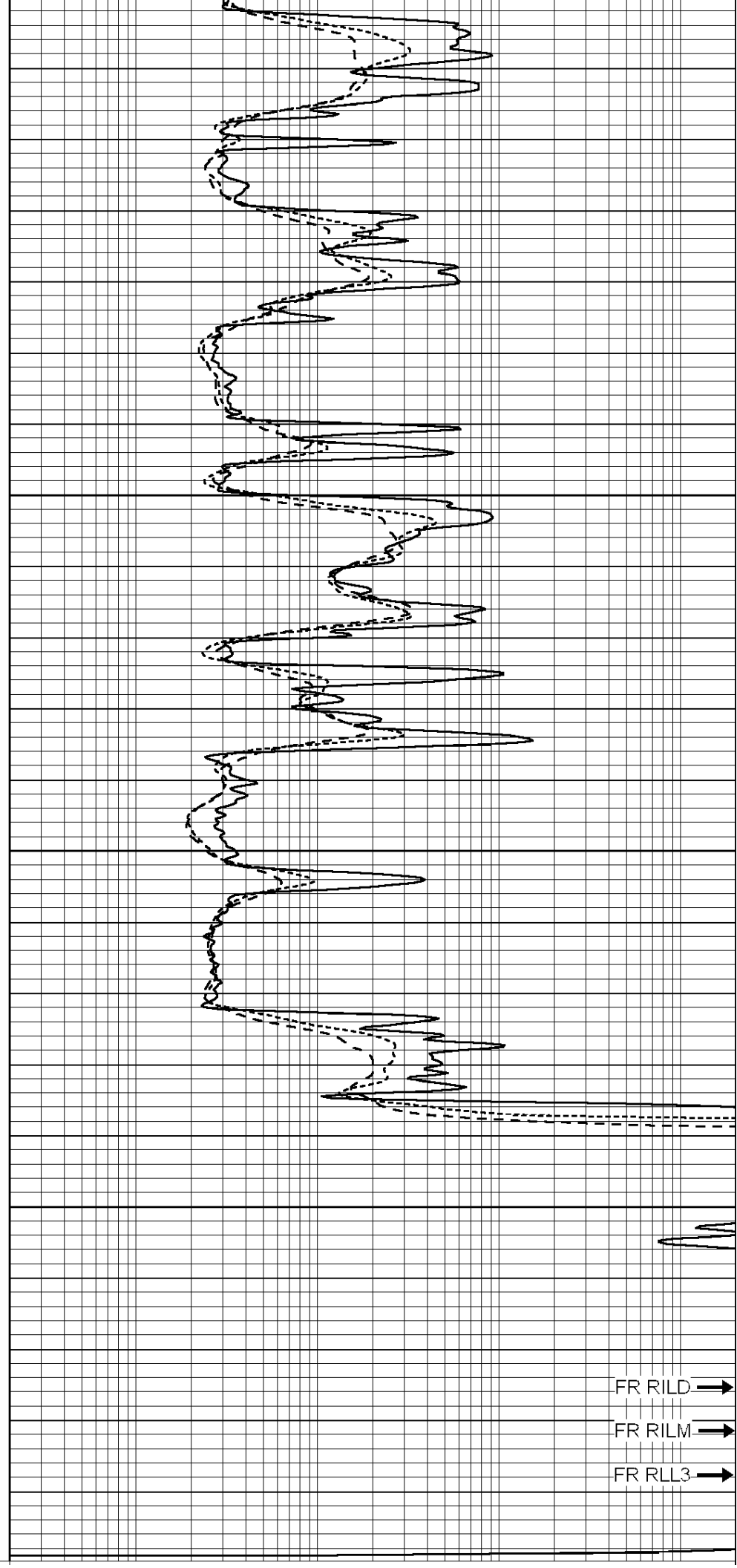
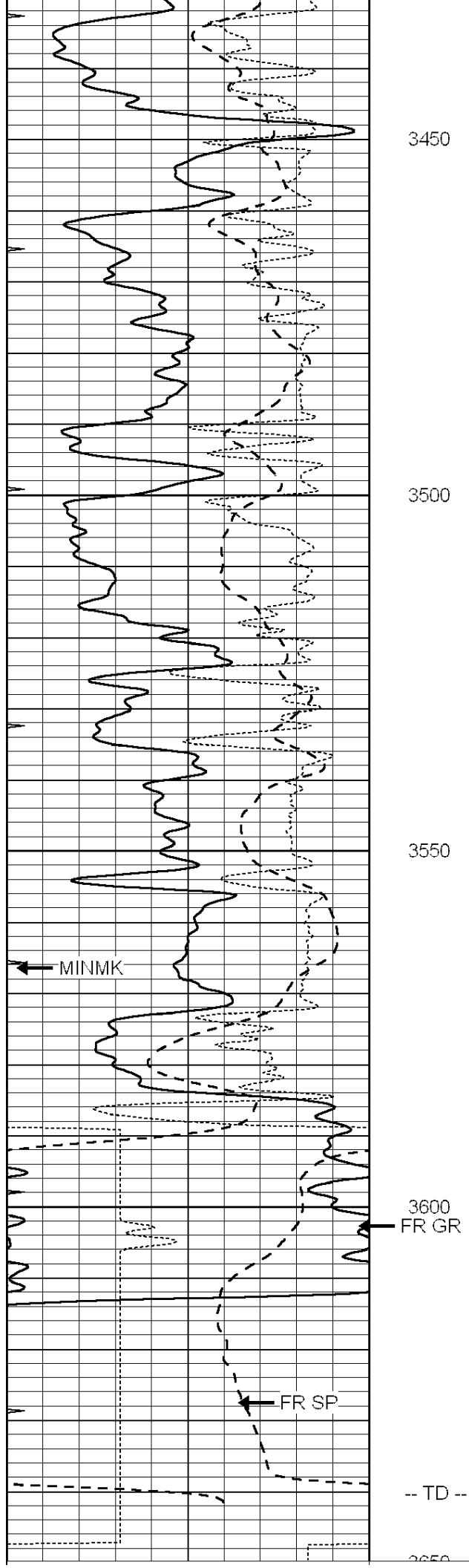
3250

3300

3350

3400





0	GAMMA RAY (GAPI)	150
-100	SP (mV)	100
-250	RxoRt	50
0	MINMK	20

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



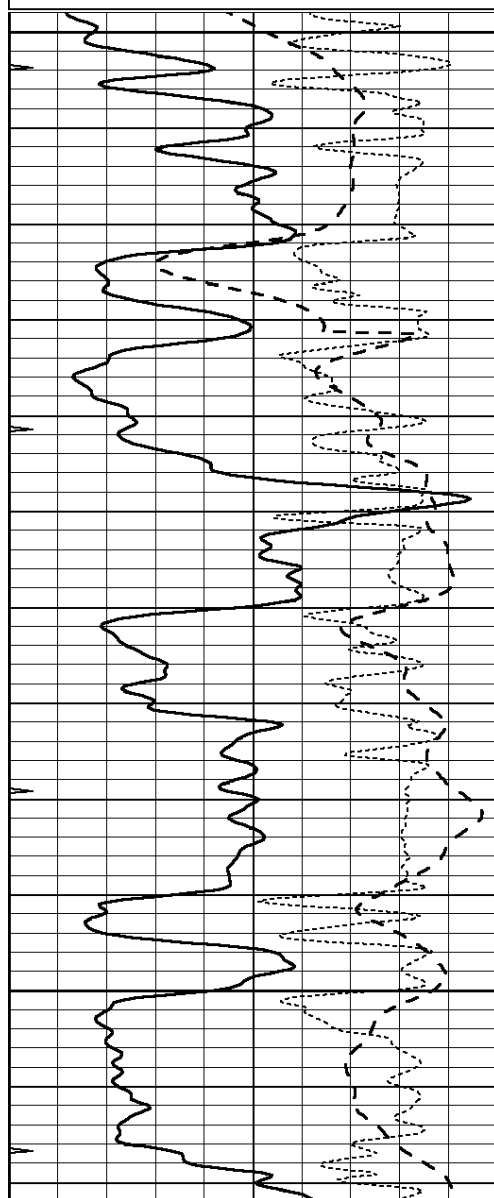
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REPEAT SECTION

Database File: 007335ddn.db
Dataset Pathname: pass5
Presentation Format: dil
Dataset Creation: Sun Jul 24 11:45:30 2011 by Log Open-Cased 090629
Charted by: Depth in Feet scaled 1:240

0	GAMMA RAY (GAPI)	150
-100	SP (mV)	100
-250	RxoRt	50
0	MINMK	20

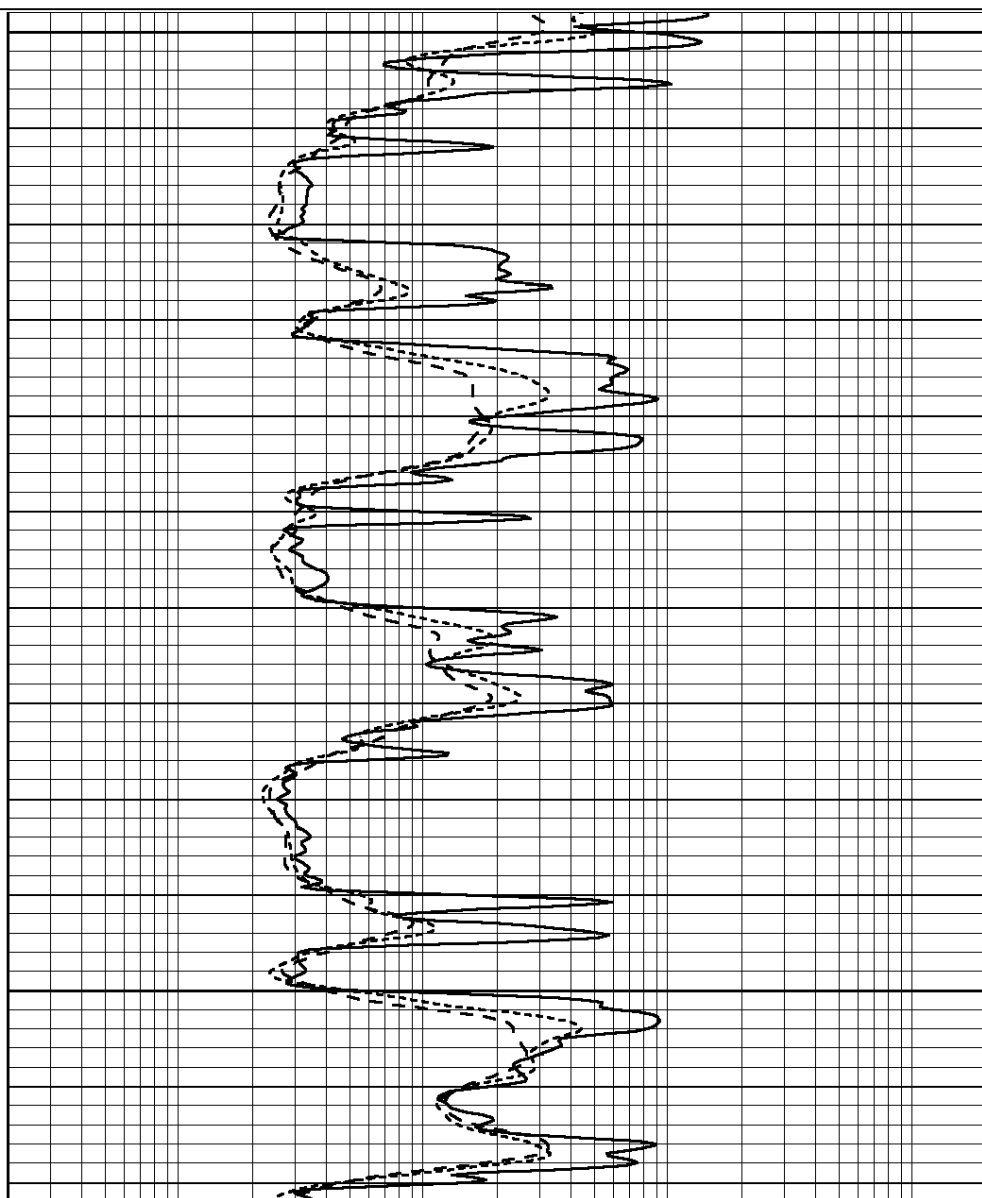
0.2	RLL3 (Ohm-m)	2000
0.2	DEEP INDUCTION (Ohm-m)	2000
0.2	MEDIUM INDUCTION (Ohm-m)	2000

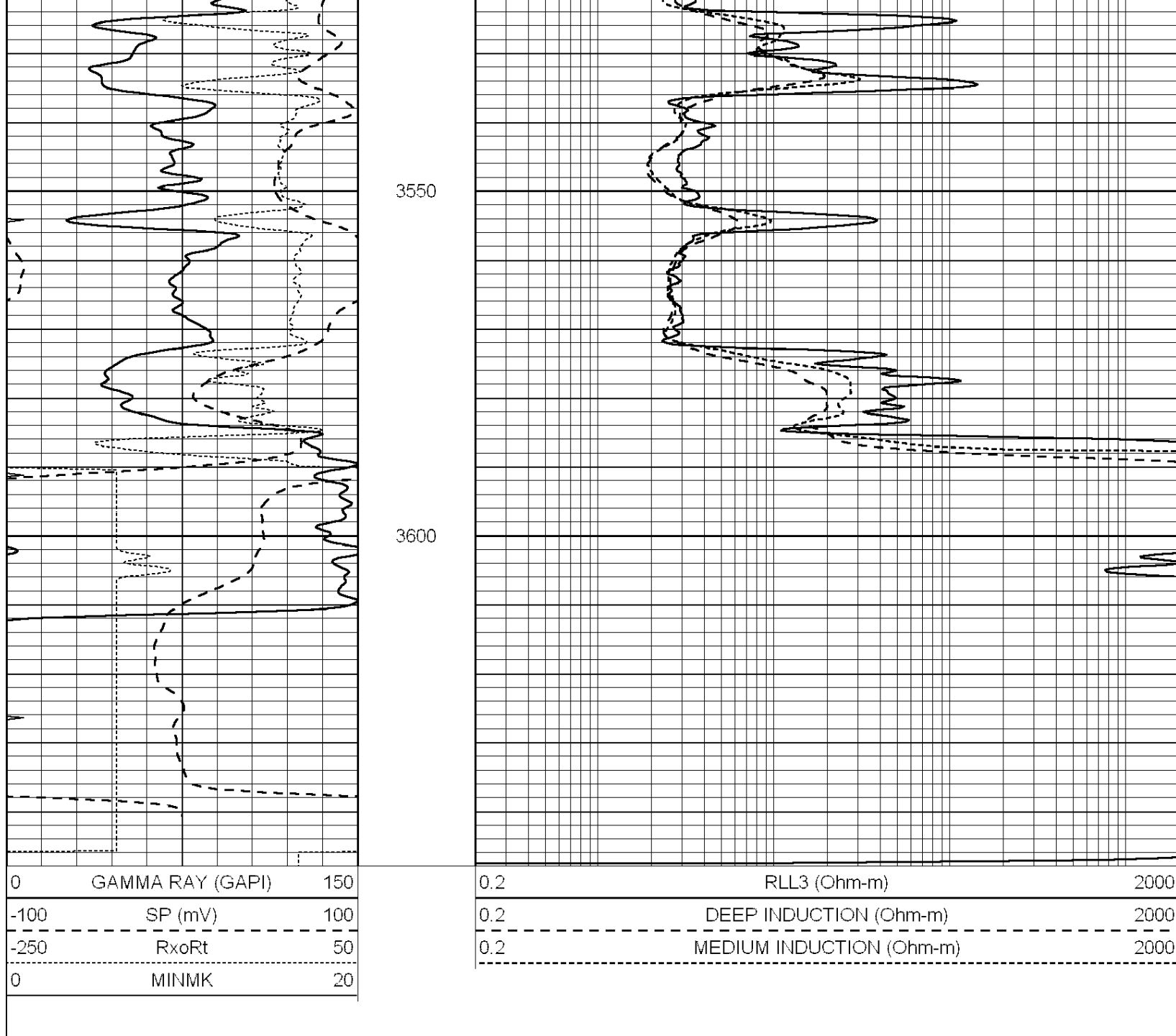


3400

3450

3500





Calibration Report								
Database File:		007335ddn.db						
Dataset Pathname:		pass6.1						
Dataset Creation:		Sun Jul 24 12:50:12 2011 by Calc Open-Cased 090629						
Dual Induction Calibration Report								
Serial-Model:			DIL5-GEAR					
Performed:			Fri Jul 22 20:03:12 2011					
Readings				References			Results	
Loop:	Air	Loop		Air	Loop		m	b
Deep	0.004	0.654	V	0.000	400.000	mmho/m	540.000	-18.000
Medium	-0.005	0.737	V	0.000	462.500	mmho/m	560.000	-14.000
Internal:	Zero	Cal		Zero	Cal		m	b
Deep	0.006	0.655	V	0.000	400.000	mmho/m	615.668	-3.483

Deep	0.000	0.000	V	0.000	100.000	mmho/m	0.000	0.000
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:	Fri Jul 22 20:02:57 2011

Master Calibration					
	Density		Far Detector		Near Detector
Magnesium	1.710	g/cc	1243.76	629.14	cps
Aluminum	2.580	g/cc	282.16	435.01	cps
Spine Angle = 76.03			Density/Spine Ratio = 0.569		
	Size		Reading		
Small Ring	9.00	in	3.82	V	
Large Ring	14.20	in	6.37	V	

Compensated Neutron Calibration Report

Serial Number:	NUE_2I
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:	Sun Jul 24 11:52:39 2011	
Calibrator Value:	1.0	GAPI
Background Reading:	0.0	cps
Calibrator Reading:	1.0	cps
Sensitivity:	0.6500	GAPI/cps