

DUAL INDUCTION LOG

Company	VESS OIL CORPORATION
Well	WIDMAN #7
Field	PARADISE CREEK
County	ROOKS
State	KANSAS
Location:	API # : 15-163-24371-00-00 1320' FSL & 2310' FWL E2 - E2 - SW
Permanent Datum Log Measured From Drilling Measured From	GROUND LEVEL Elevation 2164 KELLY BUSHING 8' A.G.L KELLY BUSHING
SEC 21 TWP 9S RGE 18W	Elevation K.B. 2172 D.F. 2170 G.L. 2164
Date	10/26/18
Run Number	ONE
Depth Driller	3587
Depth Logger	3588
Bottom Logged Interval	3586
Top Log Interval	00
Casing Driller	8 5/8" @ 220
Casing Logger	220
Bit Size	7 7/8
Type Fluid in Hole	CHEMICAL MUD
Density / Viscosity	9.1/53
pH / Fluid Loss	10.0/6.8
Source of Sample	FLOWLINE
Rm @ Meas. Temp	.70 @ 78F
Rmf @ Meas. Temp	.52 @ 78F
Rmc @ Meas. Temp	.84 @ 78F
Source of Rmf / Rmc	MEASUREMENT
Rm @ BHT	.48 @ 112F
Time Circulation Stopped	2 HOURS
Time Logger on Bottom	////
Maximum Recorded Temperature	112F
Equipment Number	3802
Location	HAYS, KANSAS
Recorded By	JASON CAPPELLUCCI
Witnessed By	ROGER MARTIN

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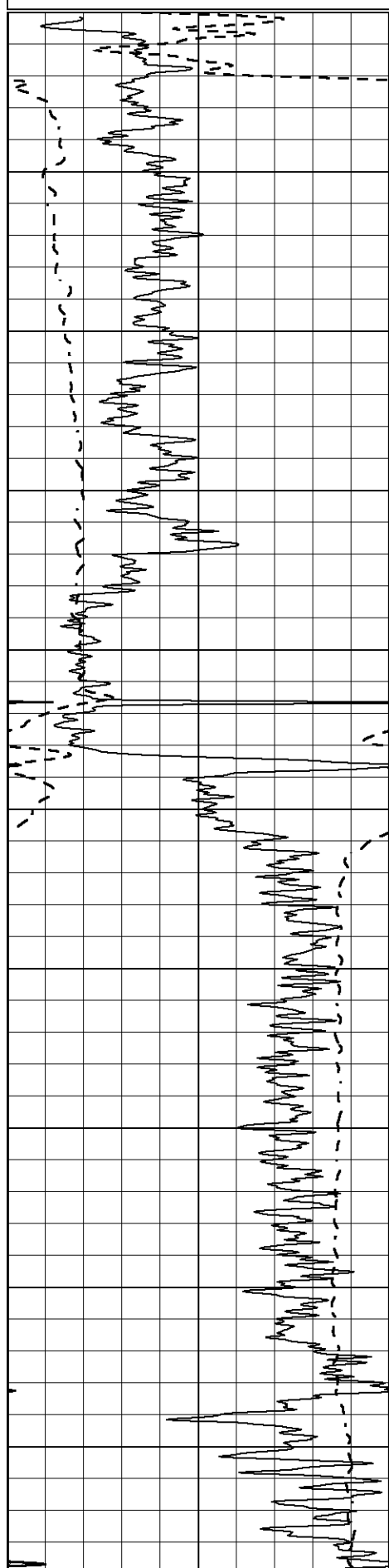
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, 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

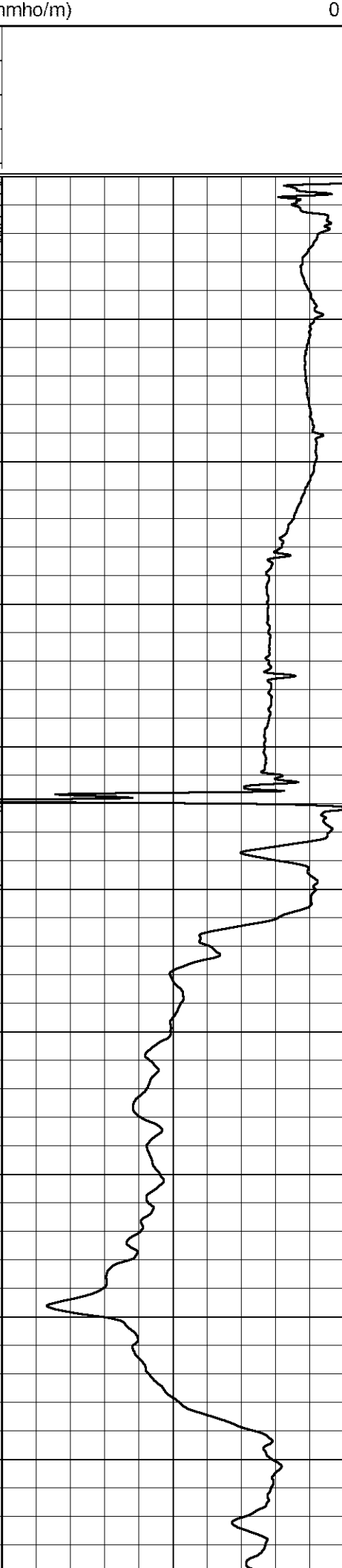
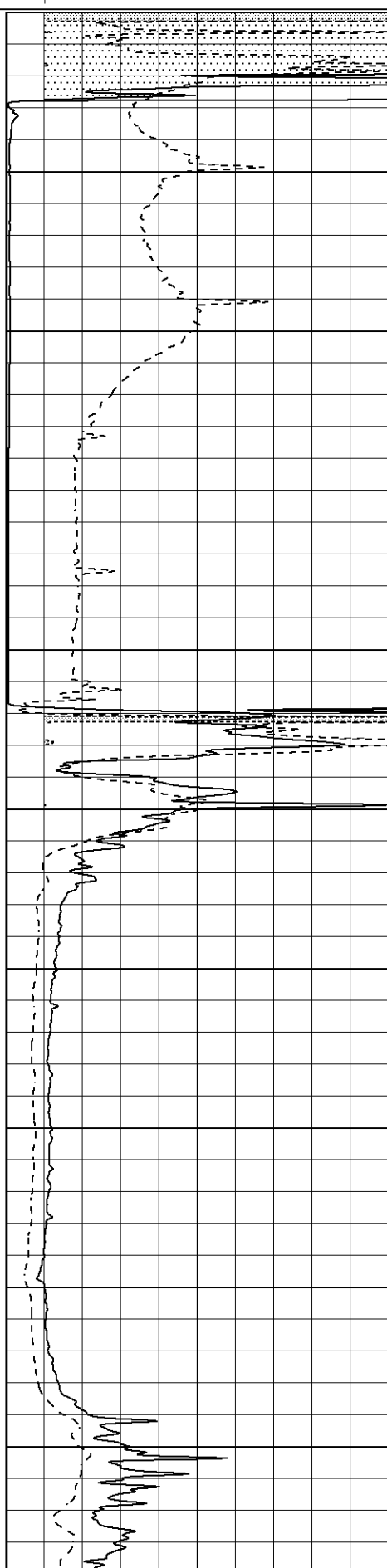
THANK YOU FOR USING ELI WIRELINE SERVICES, HAYS, KS. (785) 628-6395
DIRECTIONS
PLAINVILLE, KS. - 1 WEST TO RD. 16 - 1 NORTH - 3/4 WEST - NORTH INTO

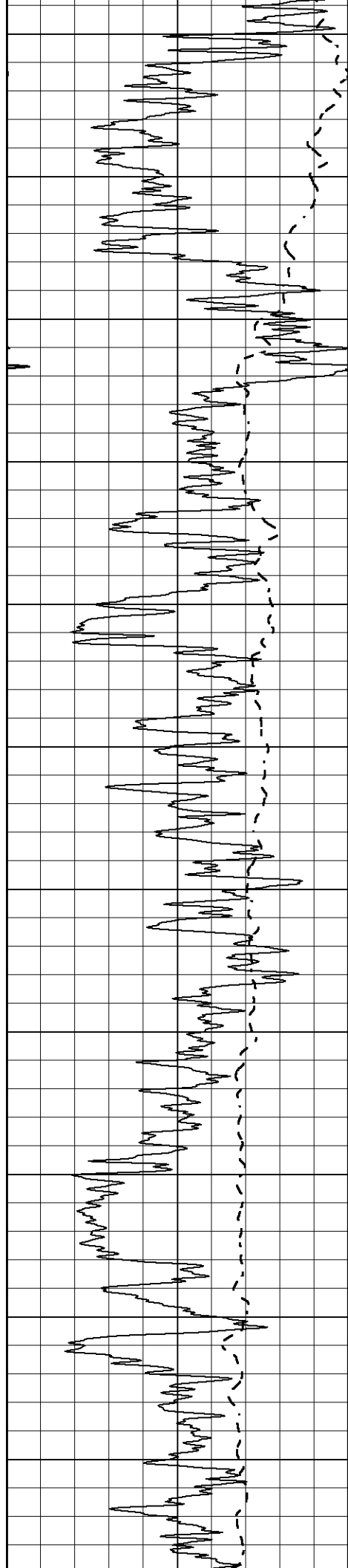
Database File 3011ddn8.db
Dataset Pathname pass3.2A
Presentation Format _dil2
Dataset Creation Fri Oct 26 19:27:08 2018
Charted by Depth in Feet scaled 1:600

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

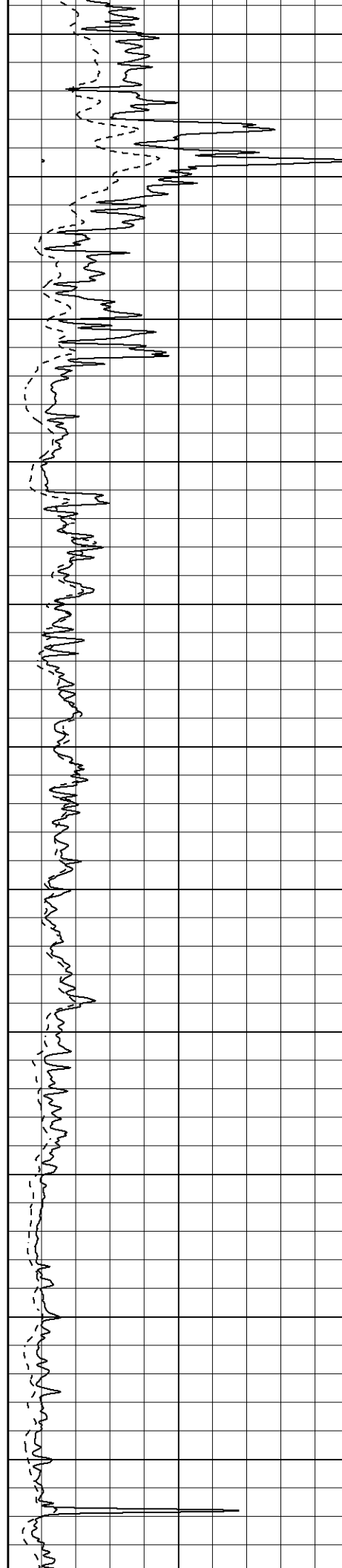


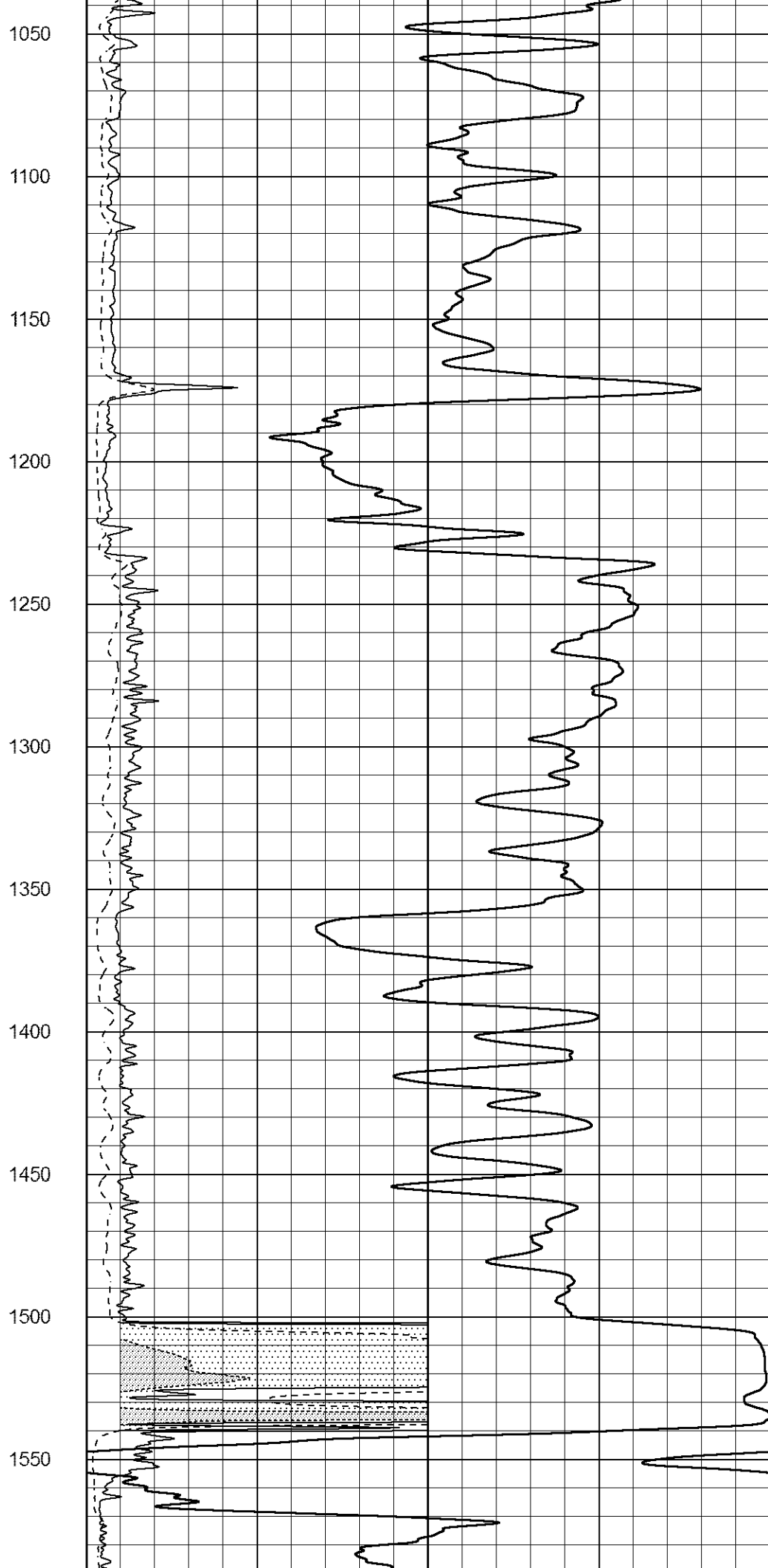
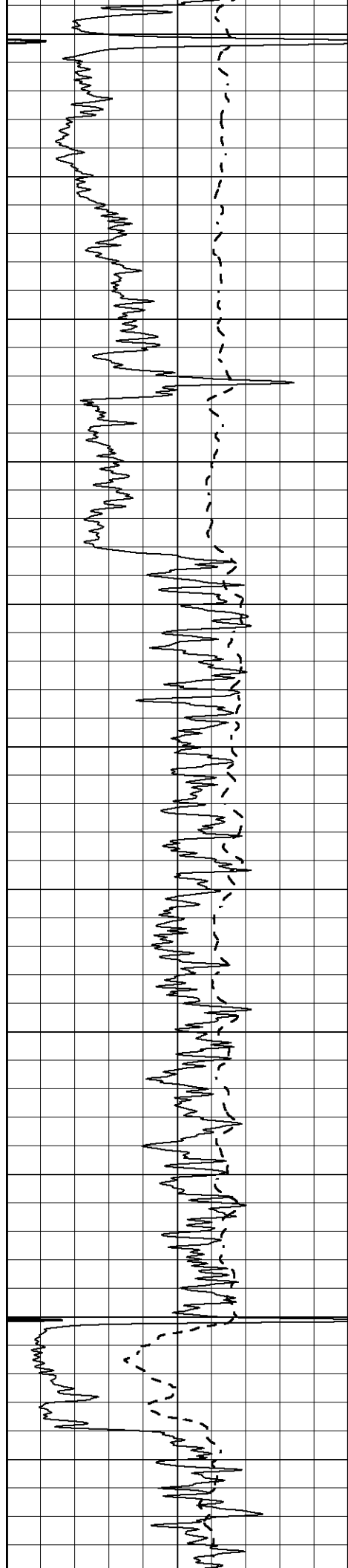
0	RLL3 (Ohm-m)	50
0	Deep Induction (Ohm-m)	50
50	RILD X10 (Ohm-m)	500
50	RLL3 X10 (Ohm-m)	500

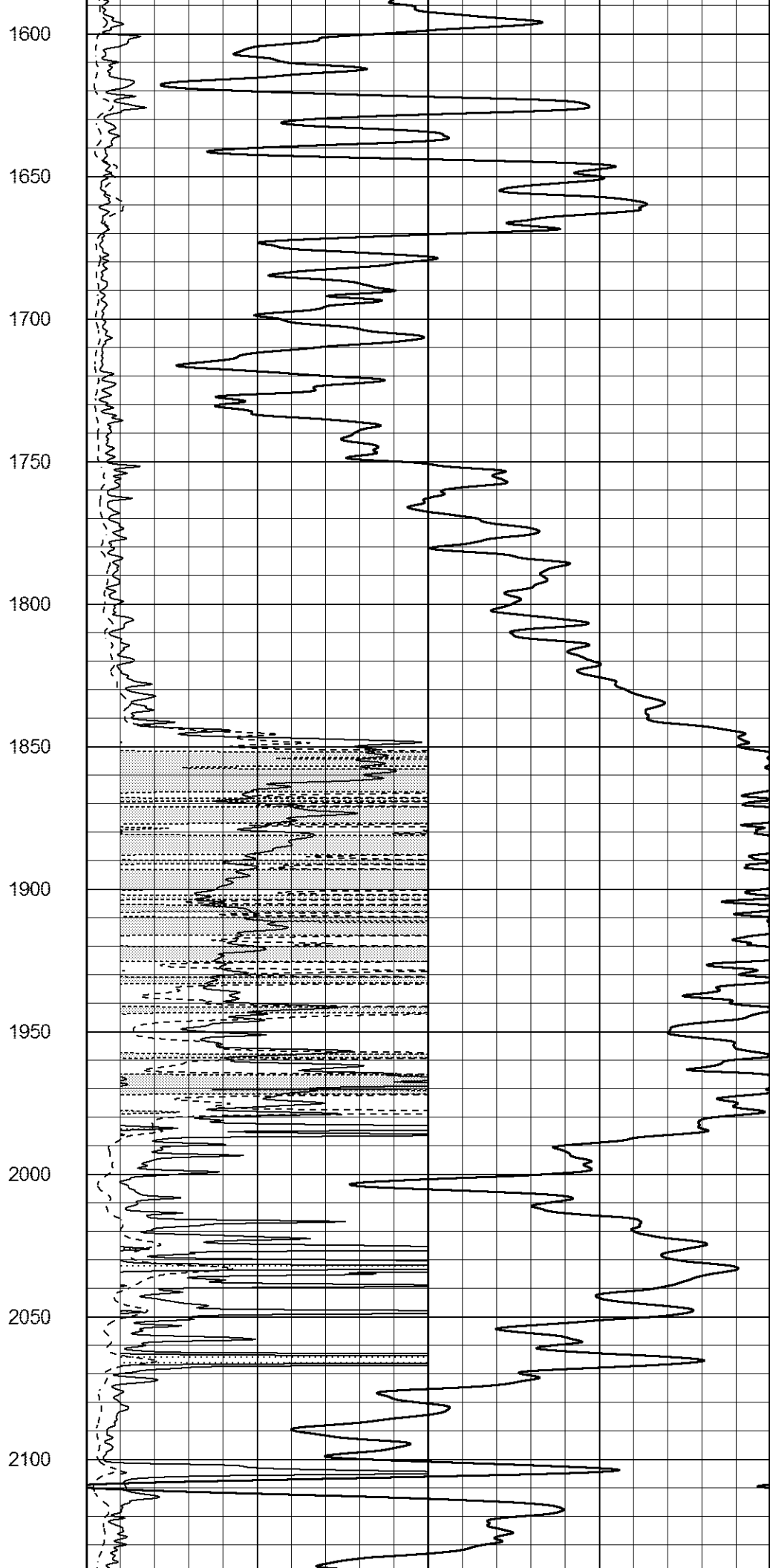
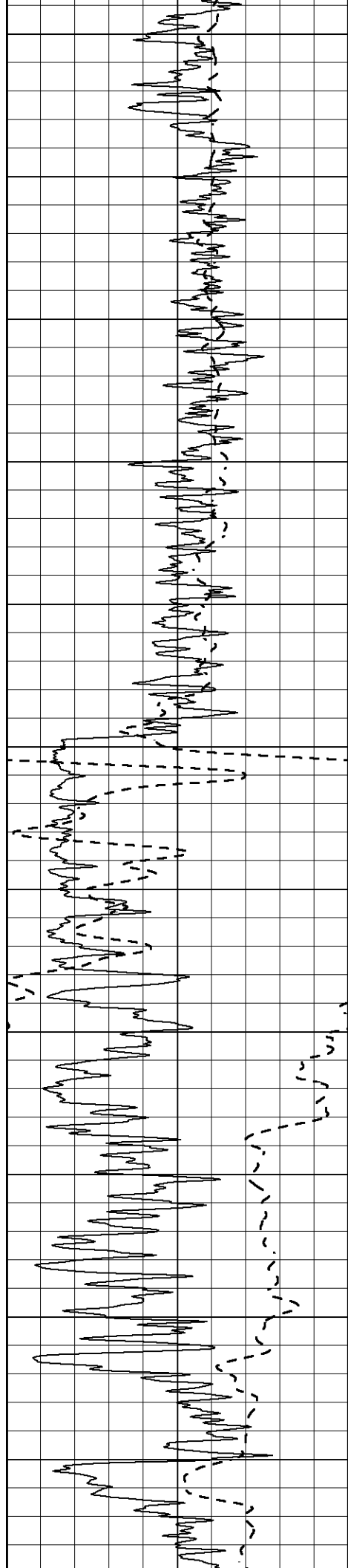


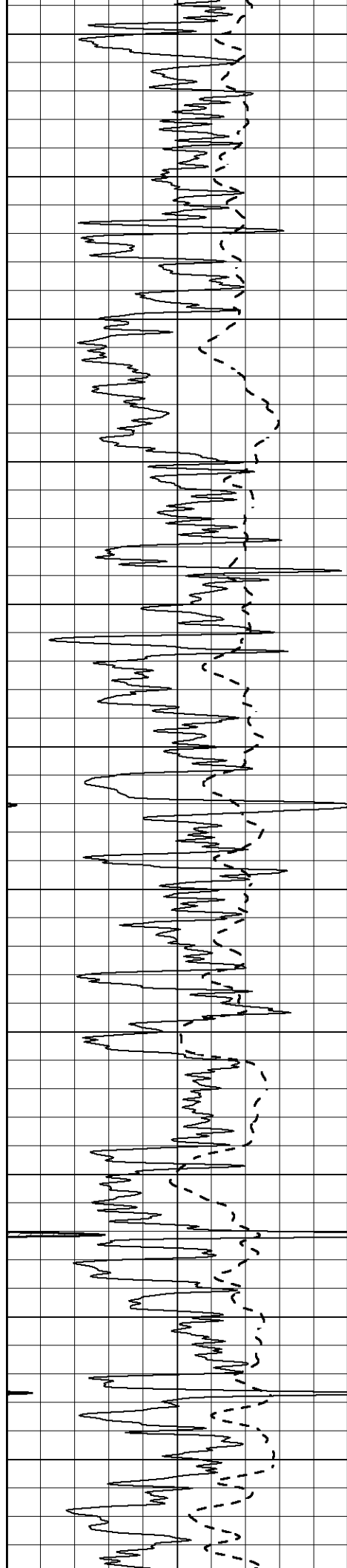


500
550
600
650
700
750
800
850
900
950
1000









2150

2200

2250

2300

2350

2400

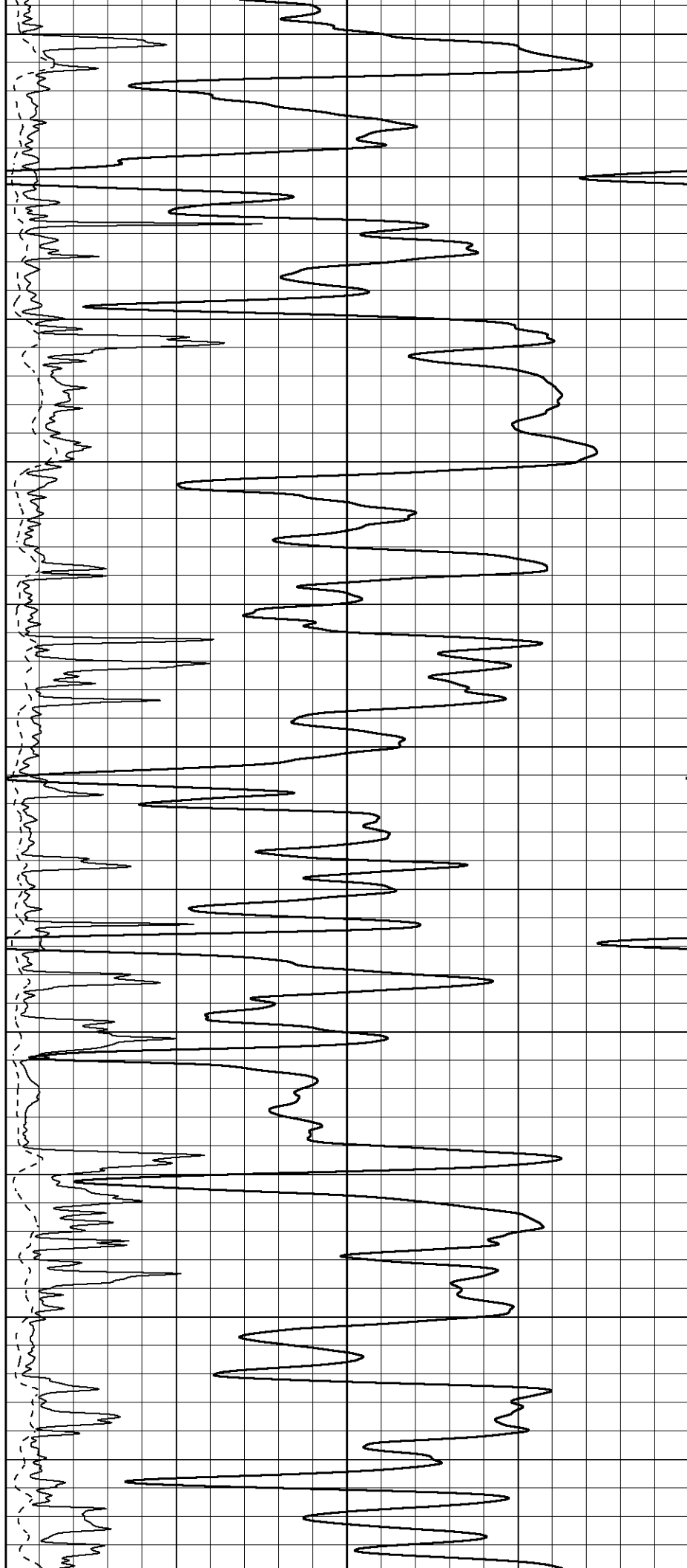
2450

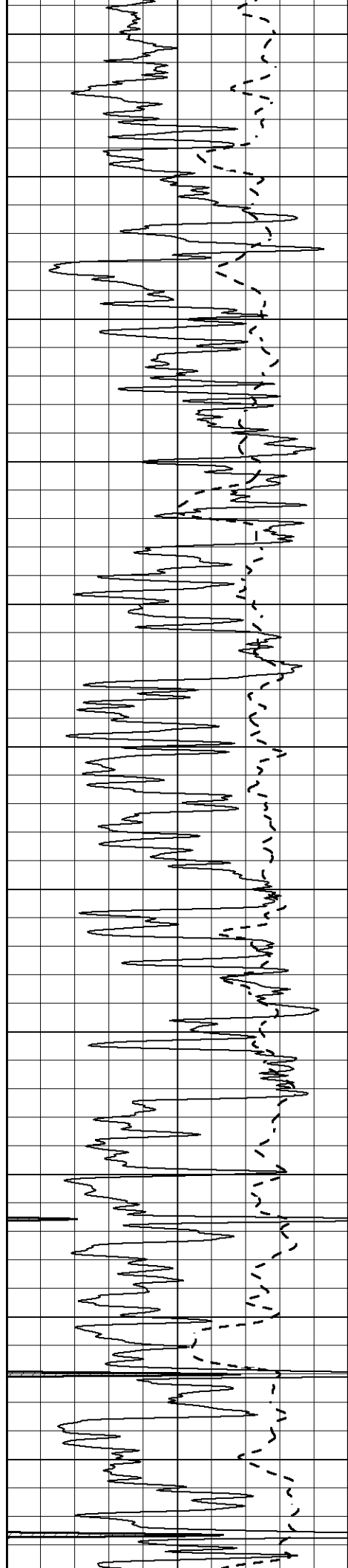
2500

2550

2600

2650





2700

2750

2800

2850

2900

2950

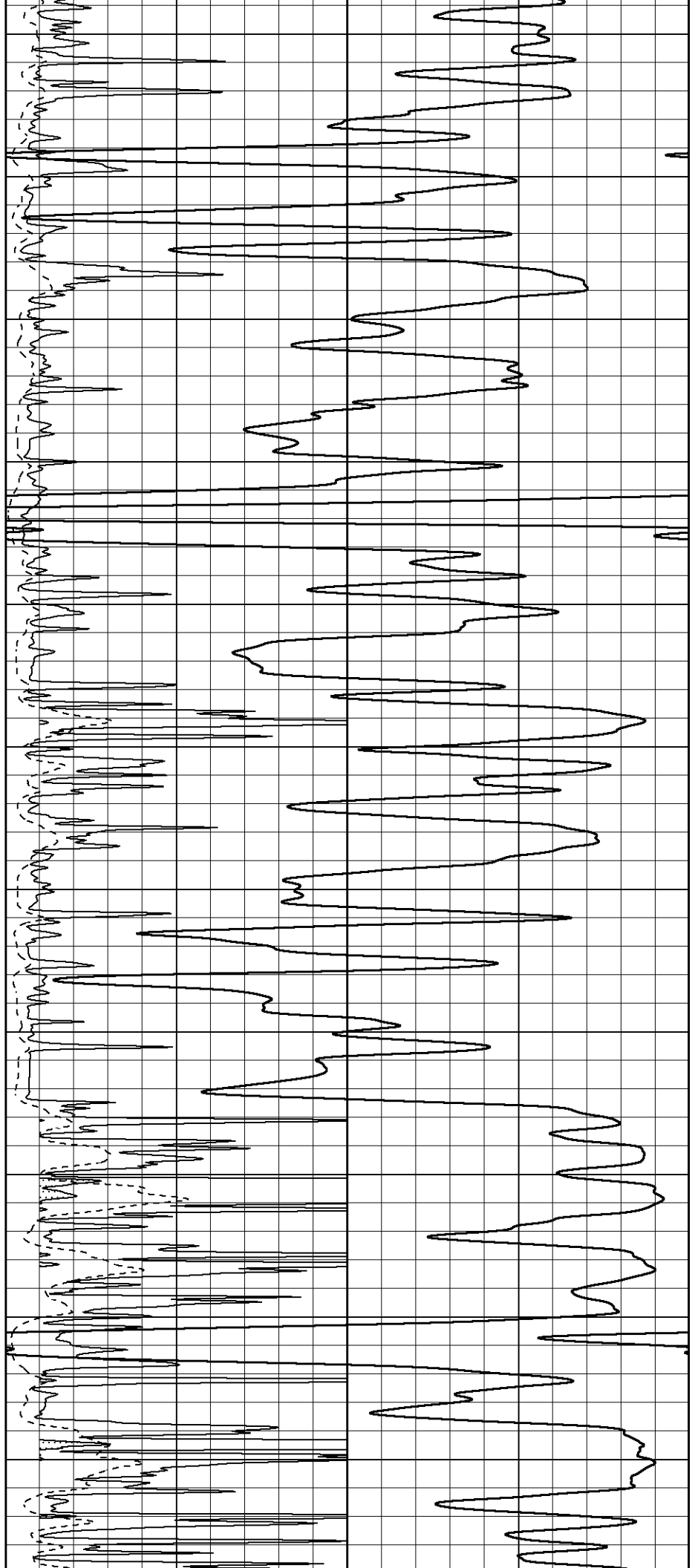
3000

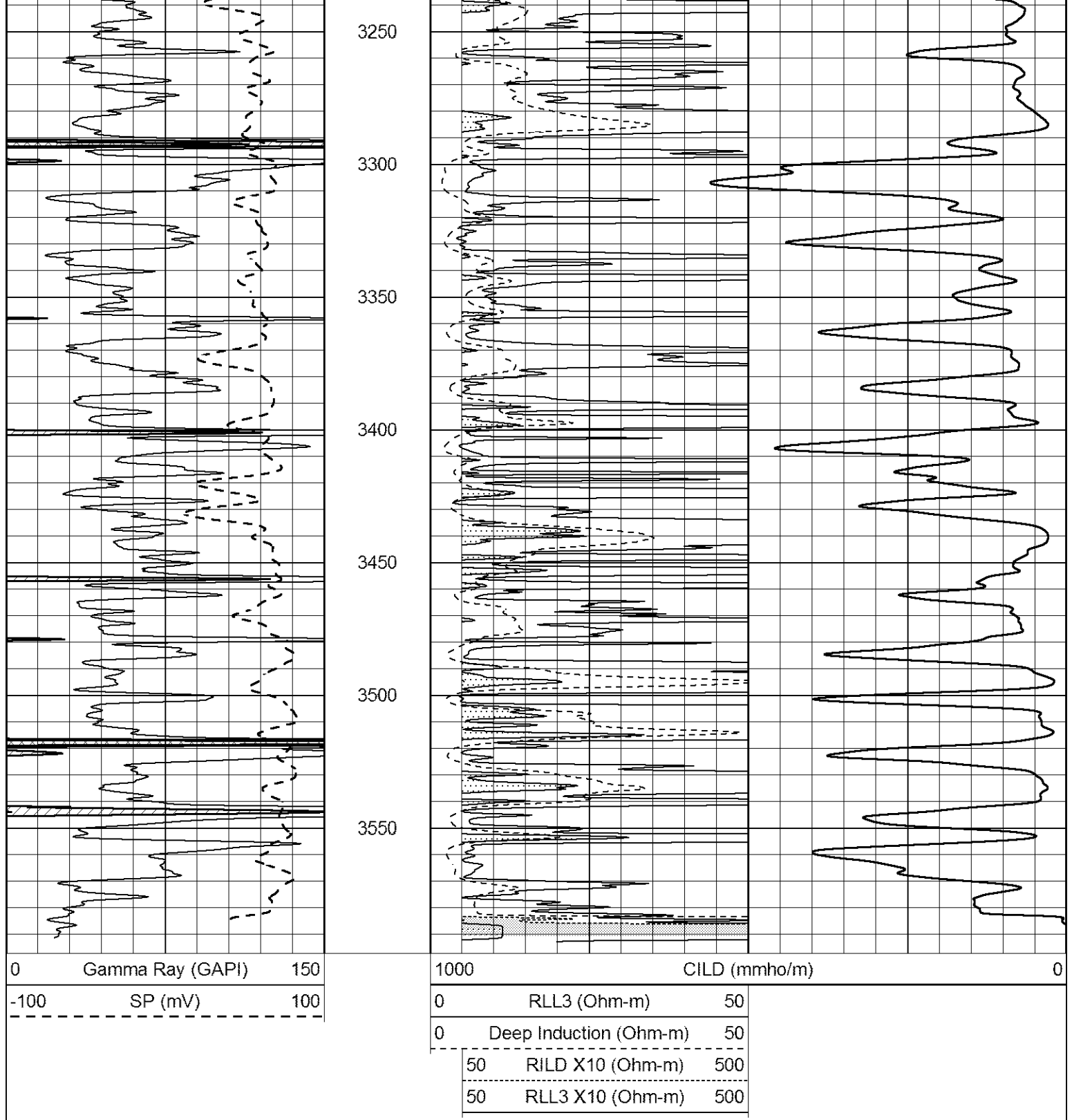
3050

3100

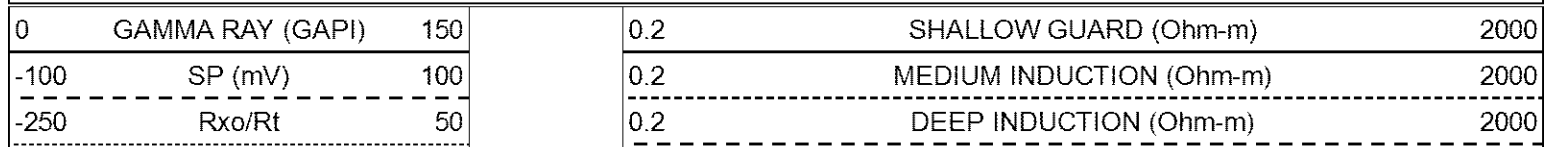
3150

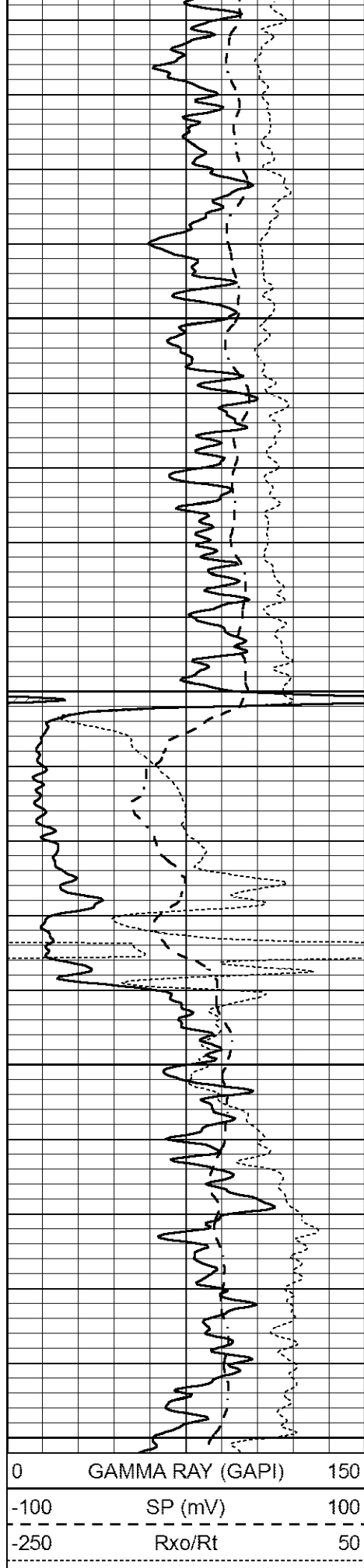
3200





Database File 3011ddn8.db
 Dataset Pathname pass3.2A
 Presentation Format _dil
 Dataset Creation Fri Oct 26 19:27:08 2018
 Charted by Depth in Feet scaled 1:240



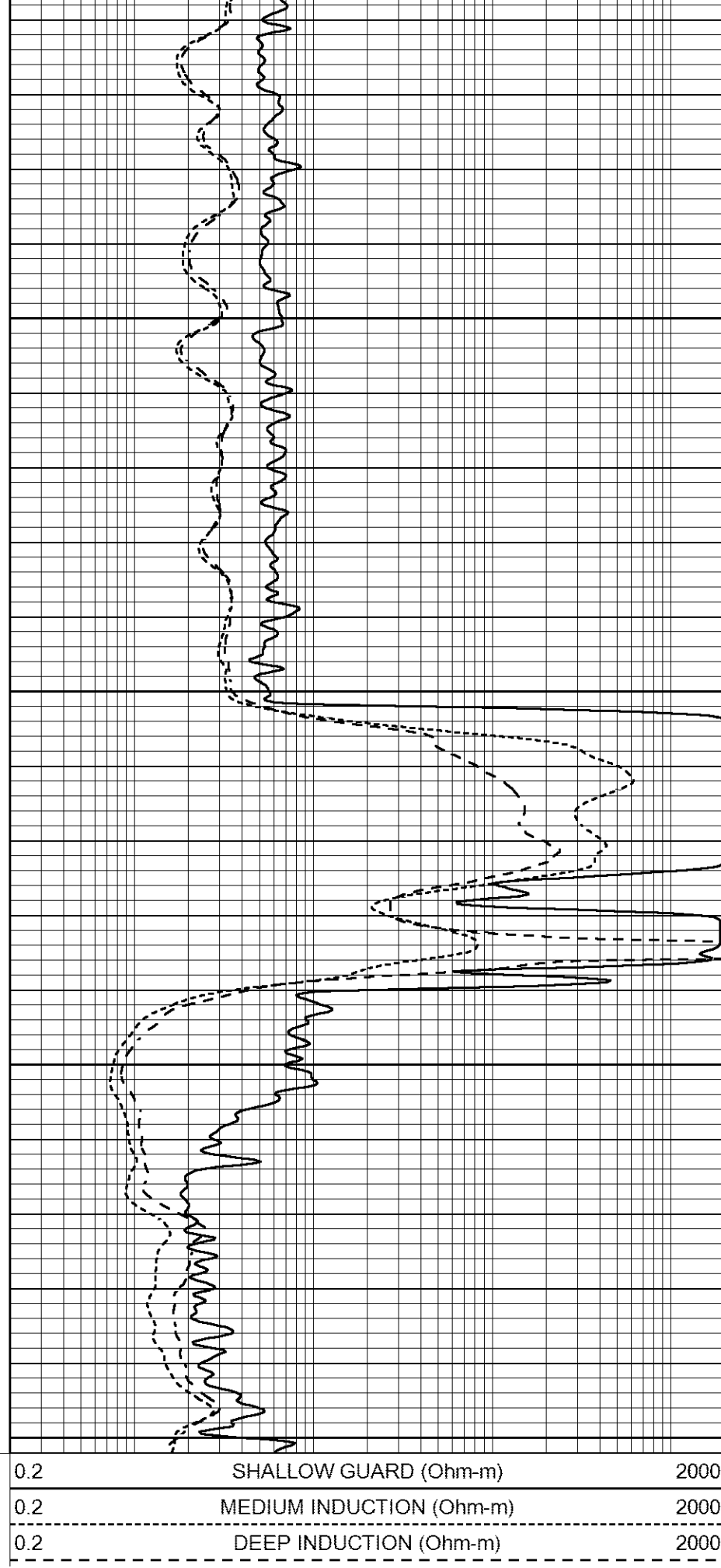


1450

1500

1550

1600



0.2

SHALLOW GUARD (Ohm-m)

2000

0.2

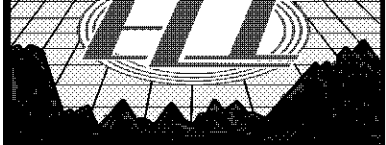
MEDIUM INDUCTION (Ohm-m)

2000

0.2

DEEP INDUCTION (Ohm-m)

2000

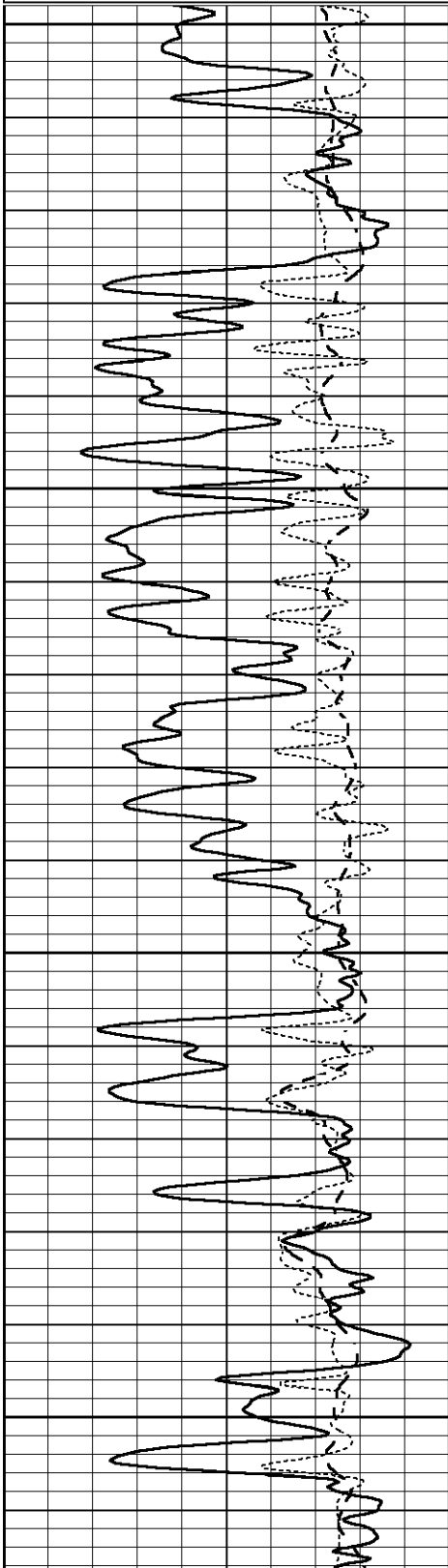


MAIN SECTION

Database File 3011ddn8.db
Dataset Pathname pass3.1
Presentation Format _dil
Dataset Creation Fri Oct 26 18:29:35 2018
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

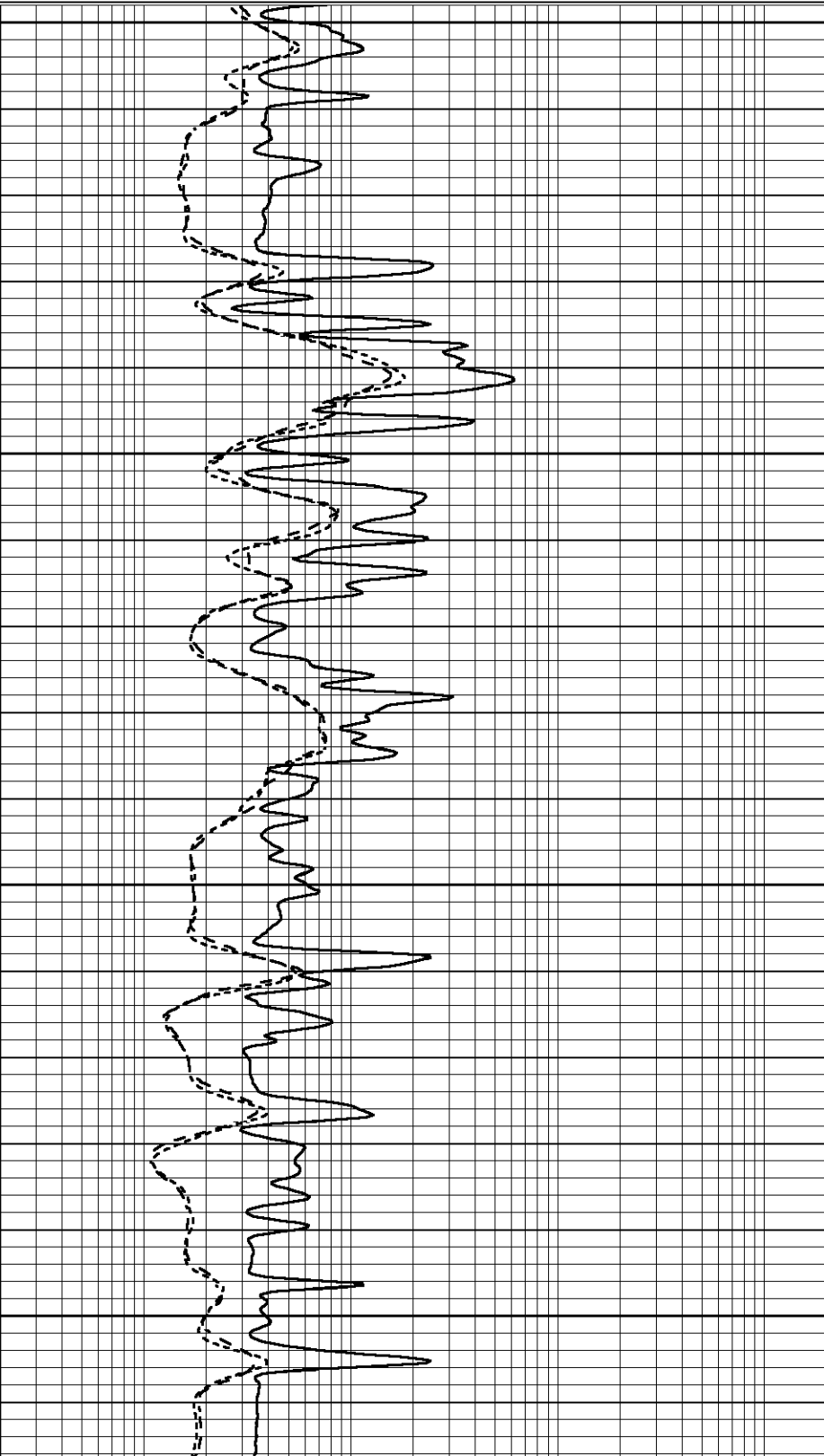


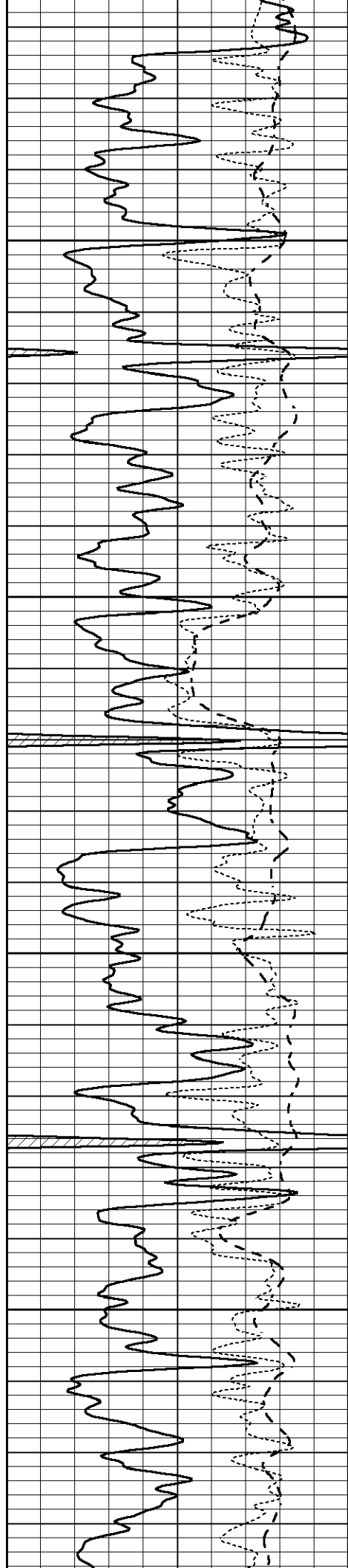
2900

2950

3000

3050



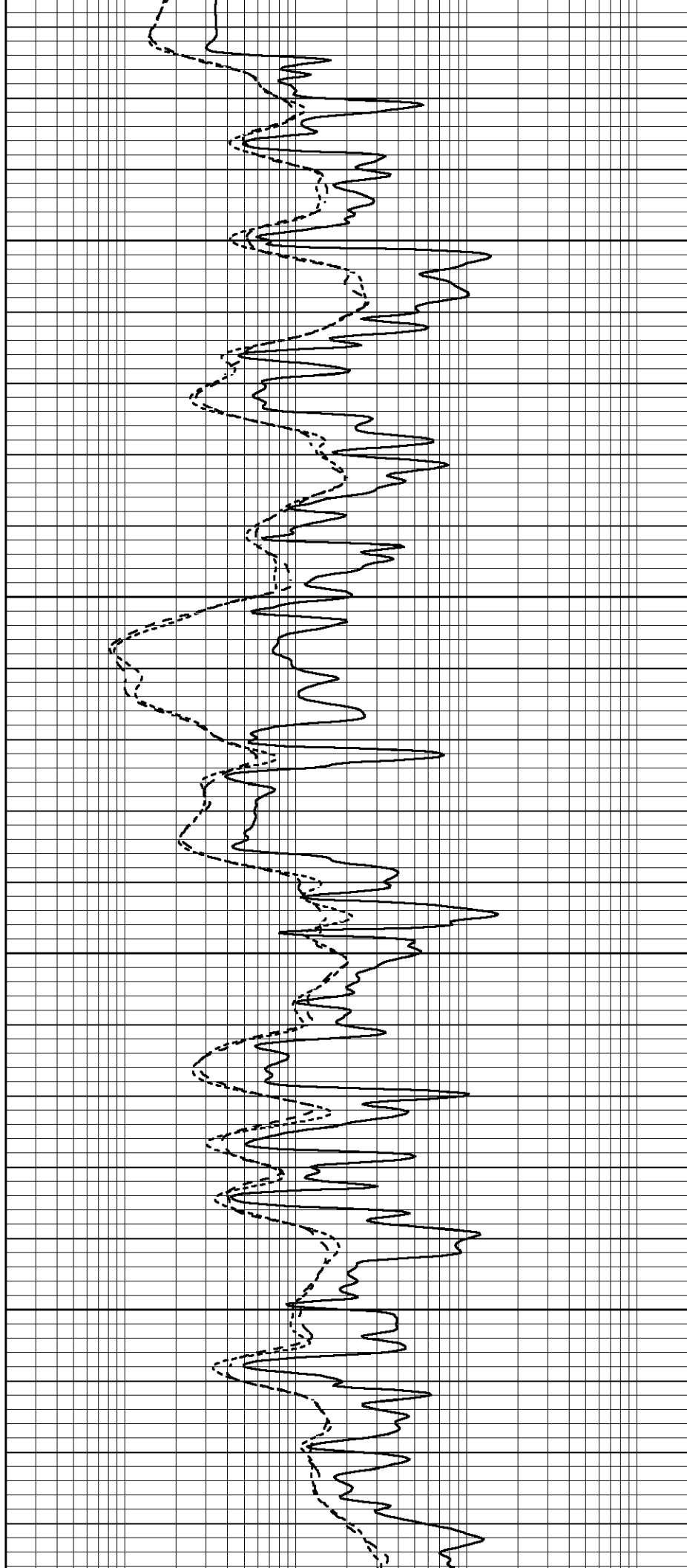


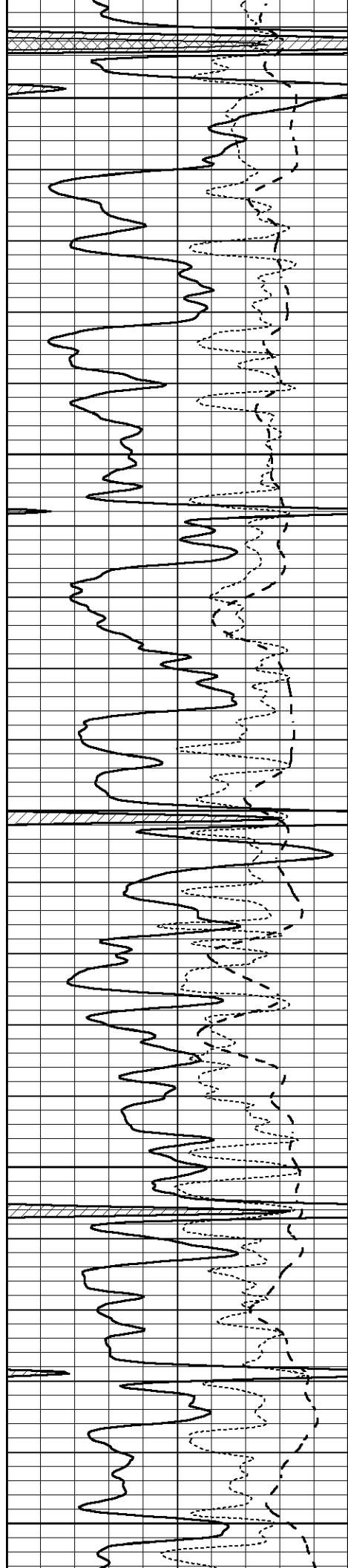
3100

3150

3200

3250





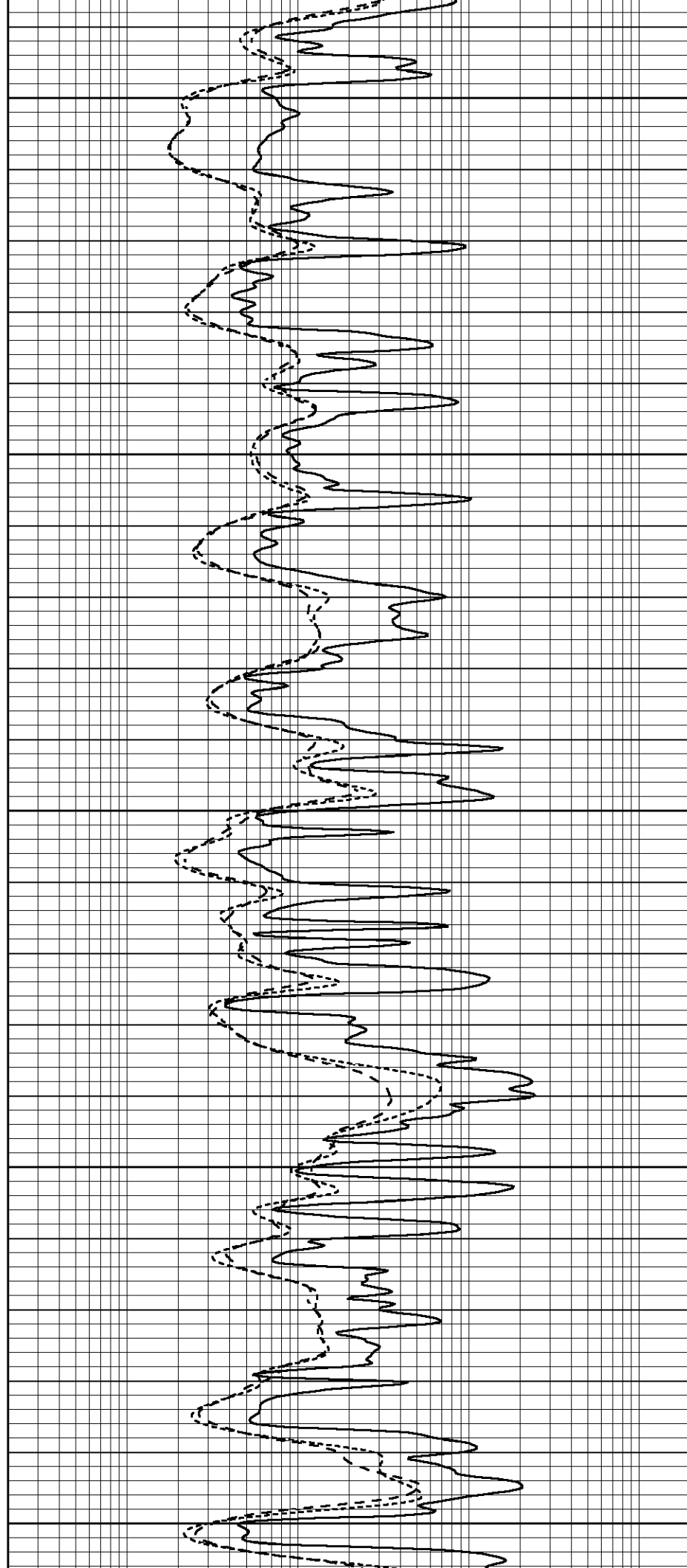
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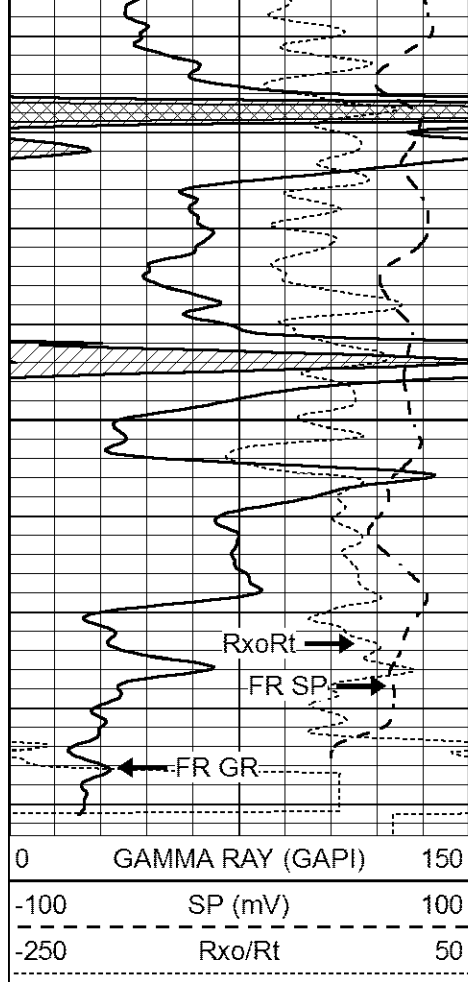
3350

3400

3450

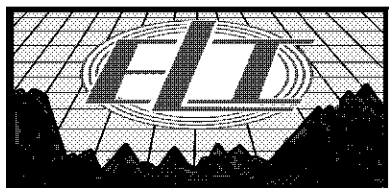
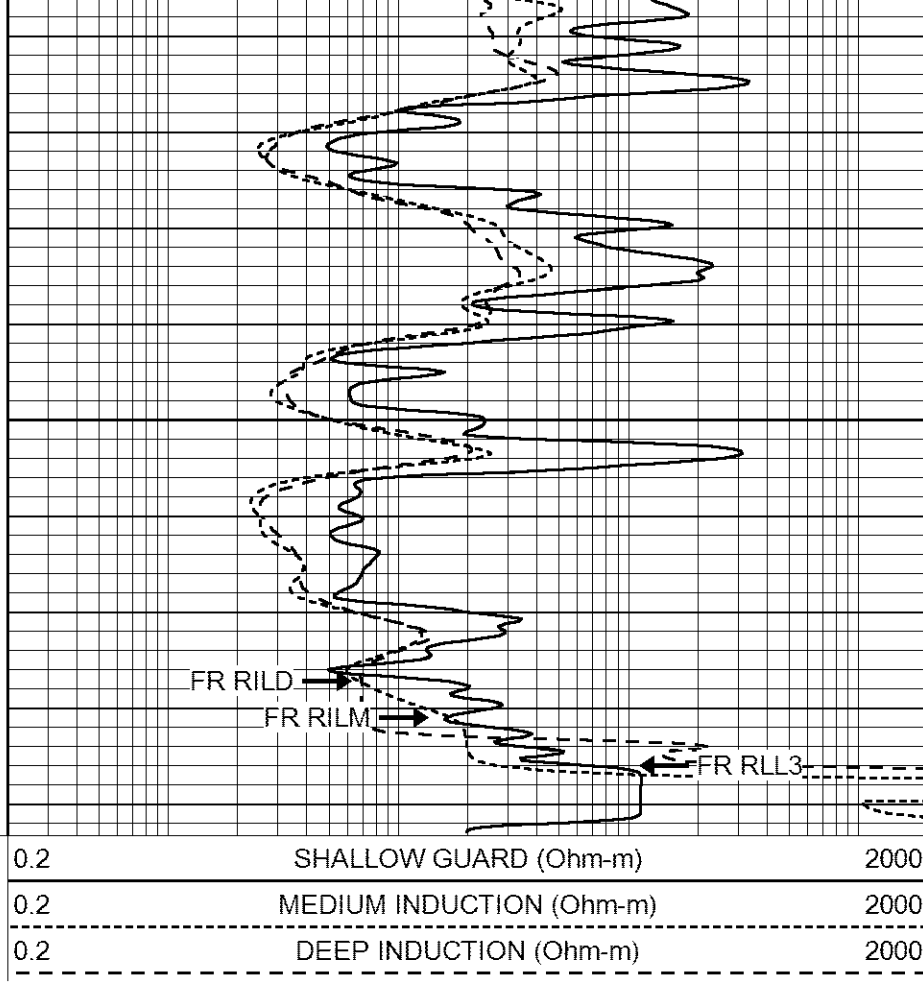
3500





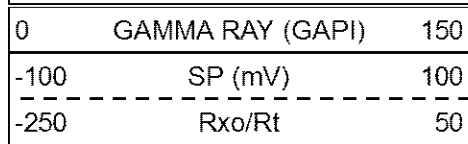
3550

LTD 3588

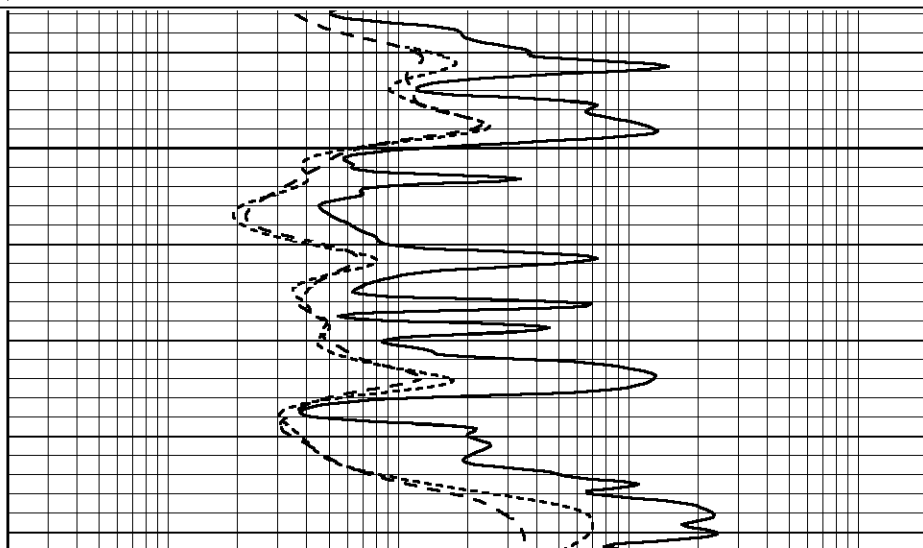
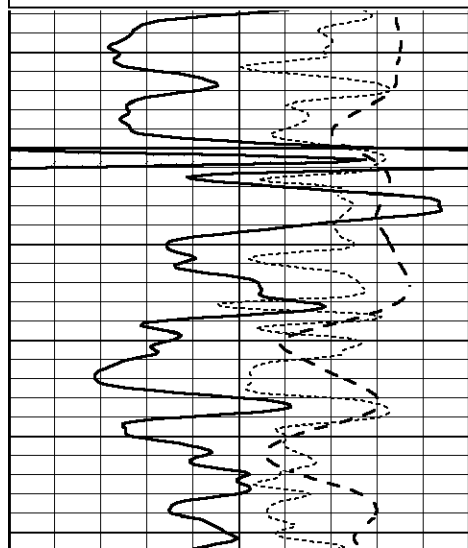
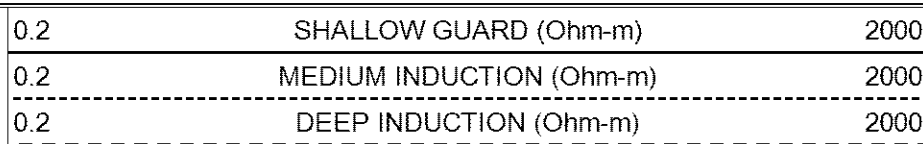


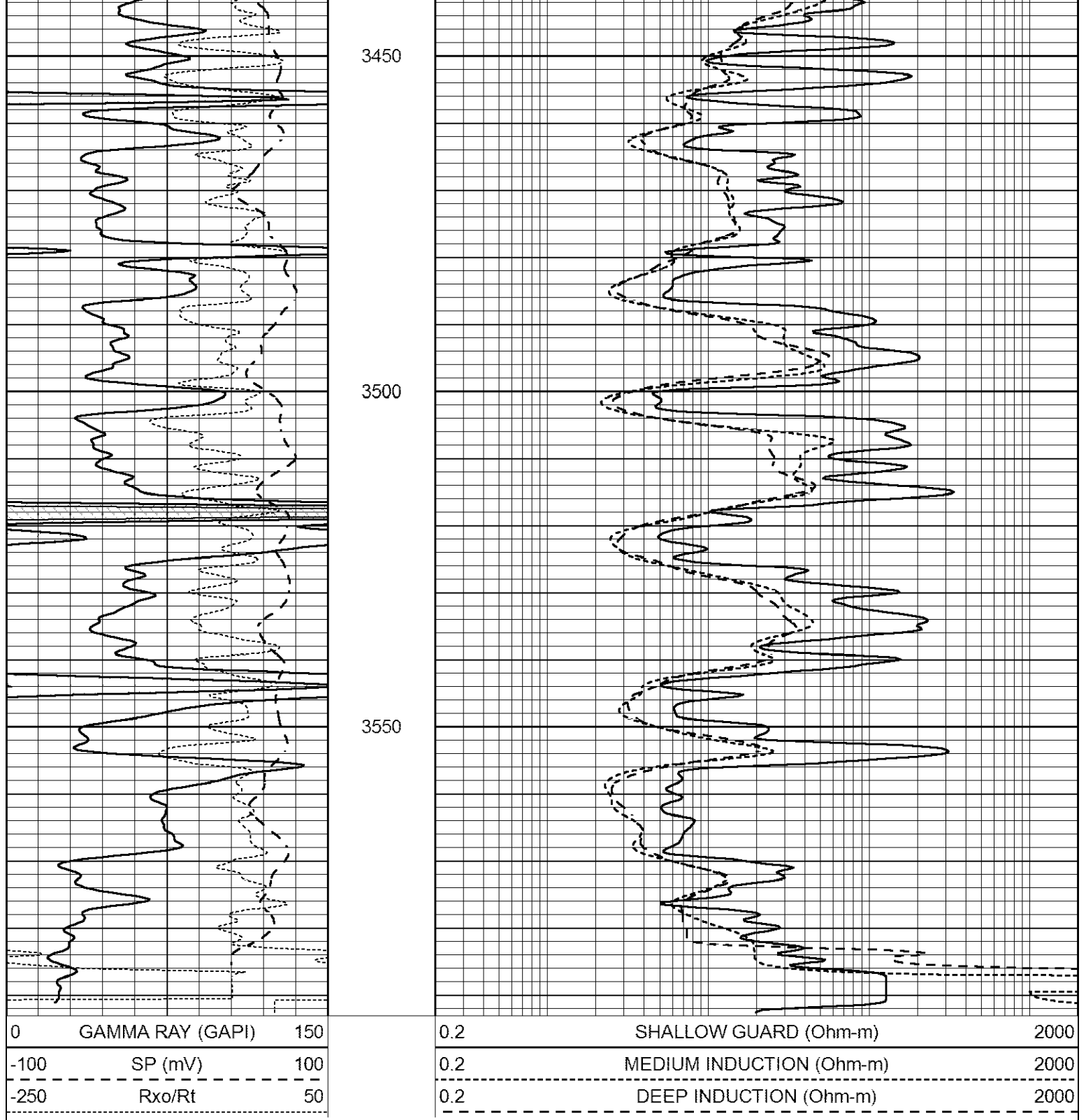
REPEAT SECTION

Database File 3011ddn8.db
 Dataset Pathname pass2.2
 Presentation Format _dil
 Dataset Creation Fri Oct 26 18:30:40 2018
 Charted by Depth in Feet scaled 1:240



3400





Calibration Report

Database File 3011ddn8.db
 Dataset Pathname pass2.2
 Dataset Creation Fri Oct 26 18:30:40 2018

Dual Induction Calibration Report

Serial-Model: FW1410-55-Probe
 Surface Cal Performed: Mon May 22 14:23:32 2017
 Downhole Cal Performed: Thu Mar 12 09:29:20 2015
 After Survey Verification Performed: Thu Mar 12 09:29:20 2015

Surface Calibration

Readings

References

Results

Loop:	Air	Loop		Air	Loop		m	b
Deep	0.011	0.656	V	1.000	400.000	mmho/m	618.595	-5.524
Medium	-0.000	0.731	V	1.000	464.000	mmho/m	632.856	1.197
Internal:	Zero	Cal		Zero	Cal		m	b
Deep	0.007	0.649	V	0.000	400.000	mmho/m	623.784	-4.595
Medium	0.004	0.743	V	0.000	464.000	mmho/m	627.284	-2.251

Downhole Calibration								
Readings			References			Results		
	Zero	Cal		Zero	Cal		m'	b'
Deep	-0.824	395.917	mmho/m	-0.976	397.550	mmho/m	1.004	-0.149
Medium	3.565	471.327	mmho/m	3.468	471.590	mmho/m	1.001	-0.099
LL3		7.503	V		1500.000	Ohm-m		
		0.001	V		20.000	Ohm-m		
		-7.481	V		3745.000	mmho-m		

After Survey Verification								
Readings			Targets			Results		
	Zero	Cal		Zero	Cal		m'	b'
Deep	0.000	0.000	mmho/m	-0.824	395.917	mmho/m	1.000	0.000
Medium	0.000	0.000	mmho/m	3.565	471.327	mmho/m	1.000	0.000
LL3		0.000	Ohm-m		1500.000	Ohm-m		
		0.000	Ohm-m		20.000	Ohm-m		
		0.000	mmho-m		3745.000	mmho-m		

Gamma Ray Calibration Report								
Serial Number:	7							
Tool Model:	Probe1							
Performed:	Wed Jun 29 11:10:58 2016							
Calibrator Value:	1.0				GAPI			
Background Reading:	0.0				cps			
Calibrator Reading:	1.0				cps			
Sensitivity:	0.3500				GAPI/cps			