

DUAL
INDUCTION
LOG

Company I.A. OPERATING, INC.
Well CARRIE #2-4
Field BLUE HILL NW
County ELLIS State KANSAS

Location: API #: 15-051-26929-0000
330' FSL & 1772' FWL
E2 - SW - SE - SW
SEC 2 TWP 12S RGE 16W
Permanent Datum GROUND LEVEL Elevation 1845
Log Measured From KELLY BUSHING 8' A.G.L.
Drilling Measured From KELLY BUSHING
Other Services
CDL/CNL/PE
MEL/SON
Elevation
K.B. 1853
D.F. 1851
G.L. 1845

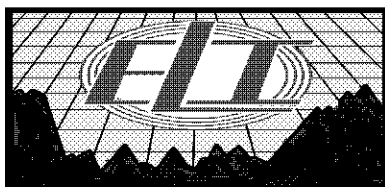
Date	8/11/18		
Run Number	ONE		
Depth Driller	3450		
Depth Logger	3448		
Bottom Logged Interval	3446		
Top Log Interval	00		
Casing Driller	8 5/8" @ 928		
Casing Logger	928		
Bit Size	7 7/8		
Type Fluid in Hole	CHEMICAL MUD	CHLORIDES 9300 PPM	
Density / Viscosity	9.1/54		
pH / Fluid Loss	11.0/7.2		
Source of Sample	FLOWLINE		
Rm @ Meas. Temp	.50 @ 90F		
Rmf @ Meas. Temp	.37 @ 90F		
Rmc @ Meas. Temp	.60 @ 90F		
Source of Rmf / Rmc	MEASUREMENT		
Rm @ BHT	.40 @ 111F		
Time Circulation Stopped	2 HOURS		
Time Logger on Bottom	////		
Maximum Recorded Temperature	111F		
Equipment Number	3802		
Location	HAYS, KANSAS		
Recorded By	JASON CAPPELLUCCI		
Witnessed By	STEVE REED		

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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

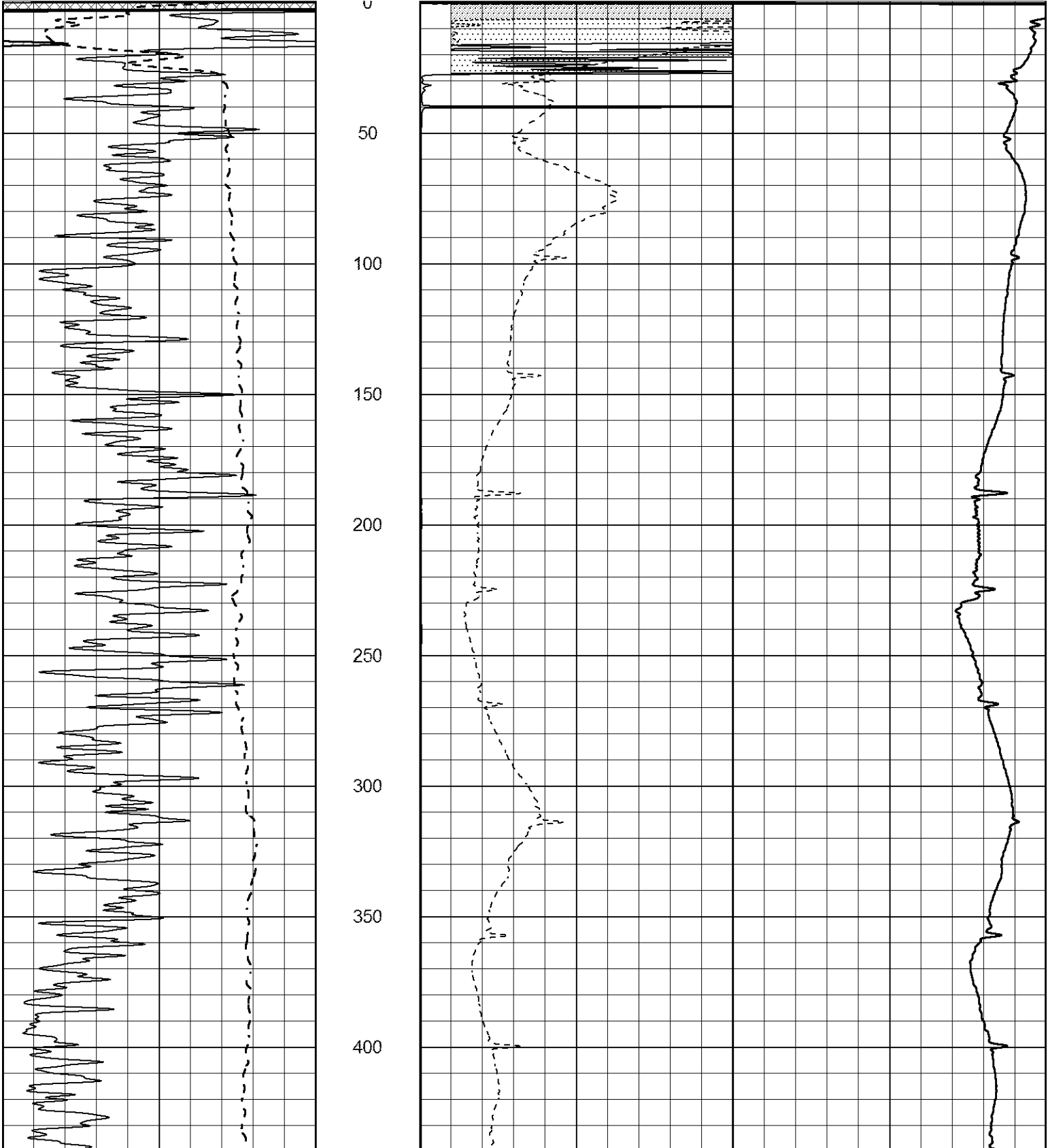
THANK YOU FOR USING ELI WIRELINE SERVICES, HAYS, KS. (785) 628-6395
DIRECTIONS
VICTORIA, KS. - NORTH TO EMMERAM RD. - 3 EAST TO 370TH RD. - NORTH
TO SEVERIN RD. - 1 EAST TO WALKER RD. - 1 NORTH - EAST INTO

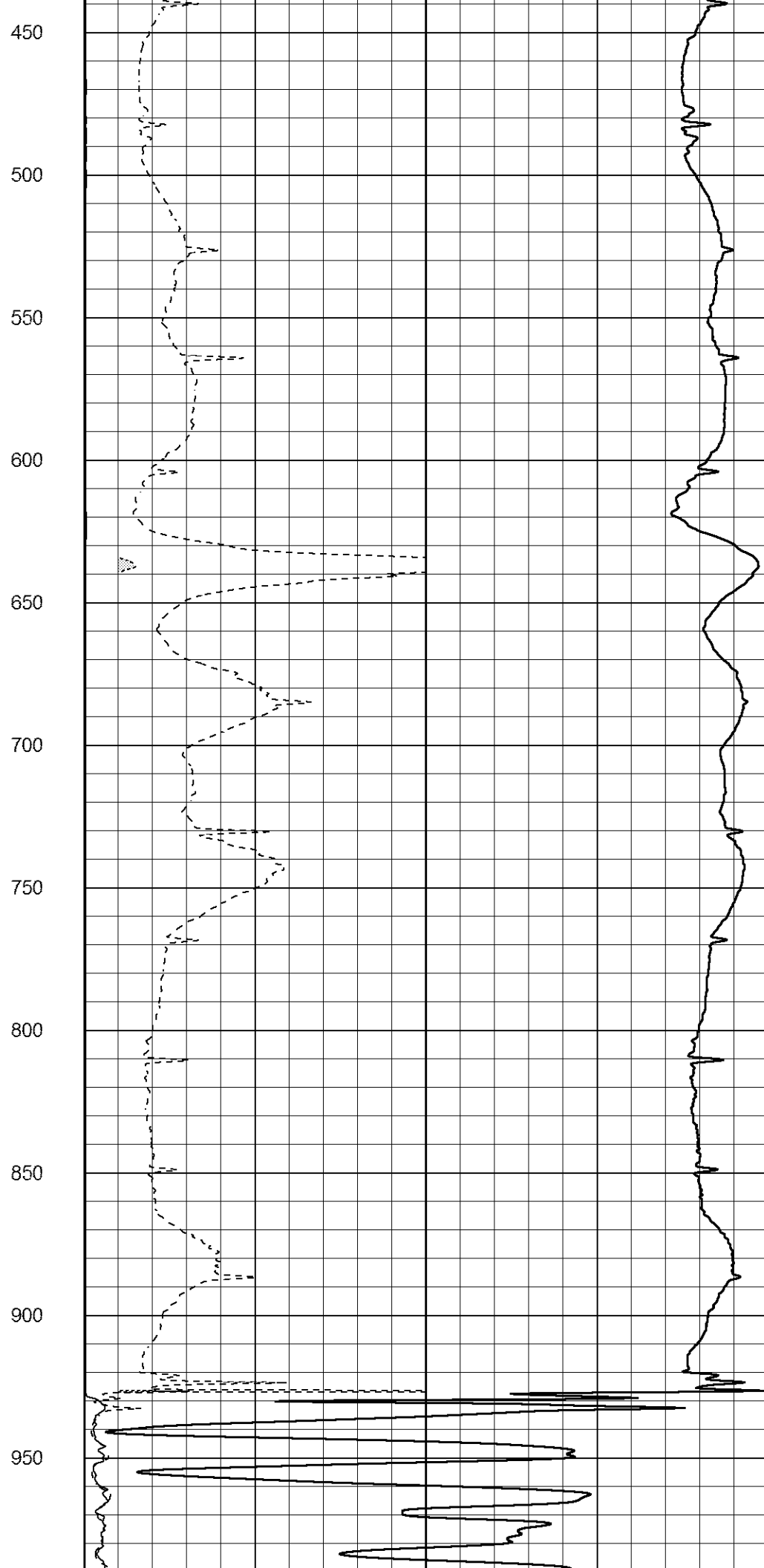
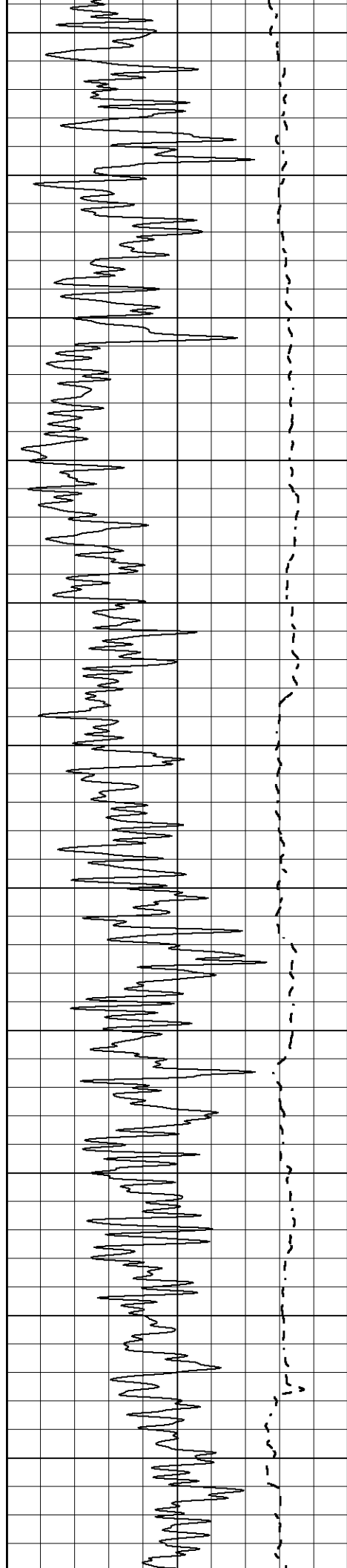


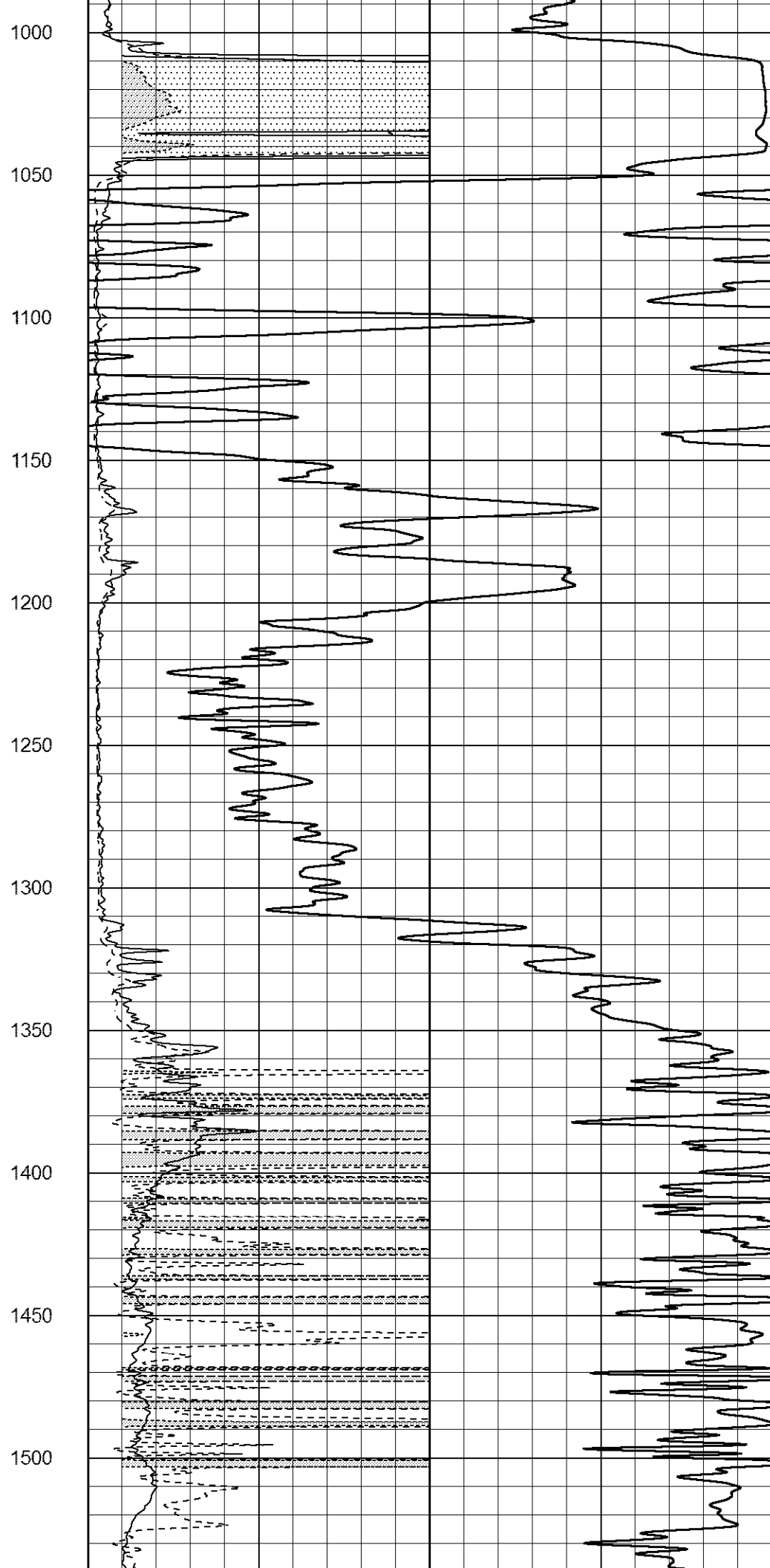
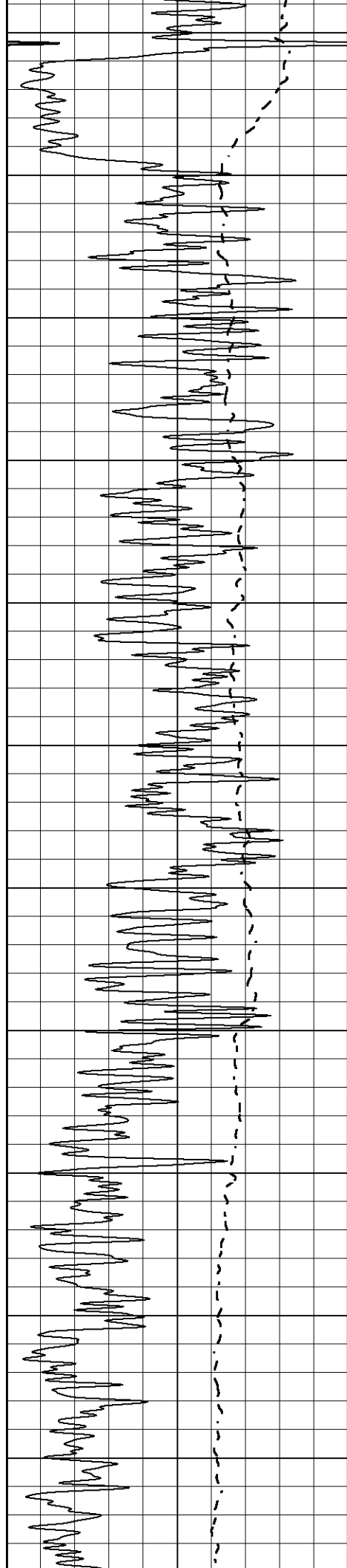
MAIN SECTION

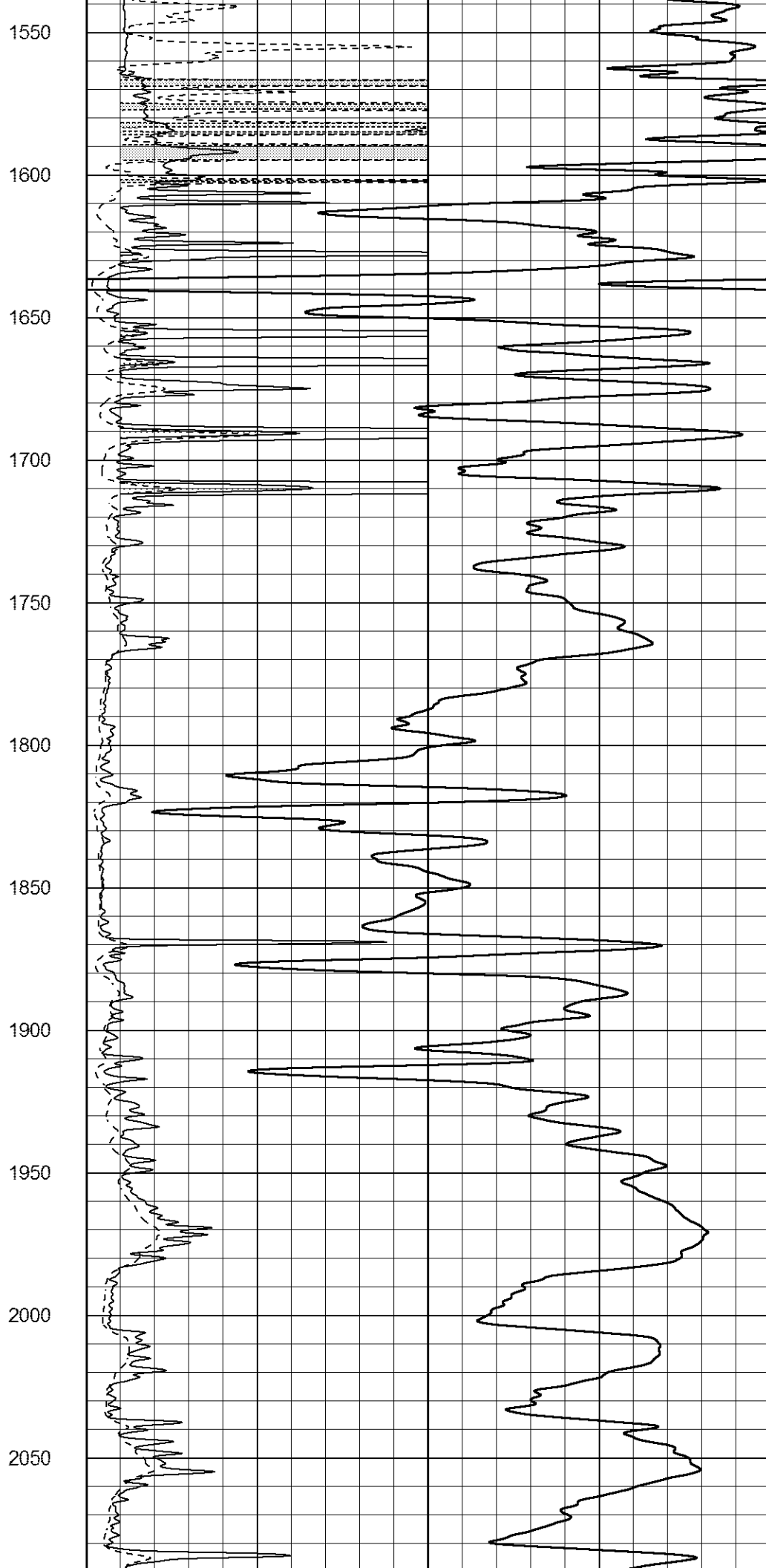
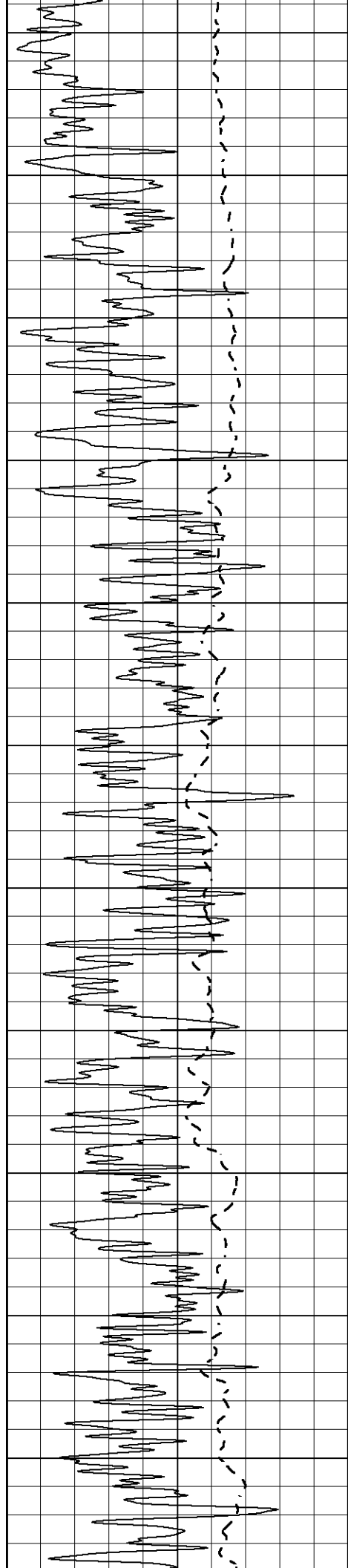
Database File	2518pe8.db
Dataset Pathname	pass3.3
Presentation Format	_dil2
Dataset Creation	Sat Aug 11 05:40:59 2018
Charted by	Depth in Feet scaled 1:600

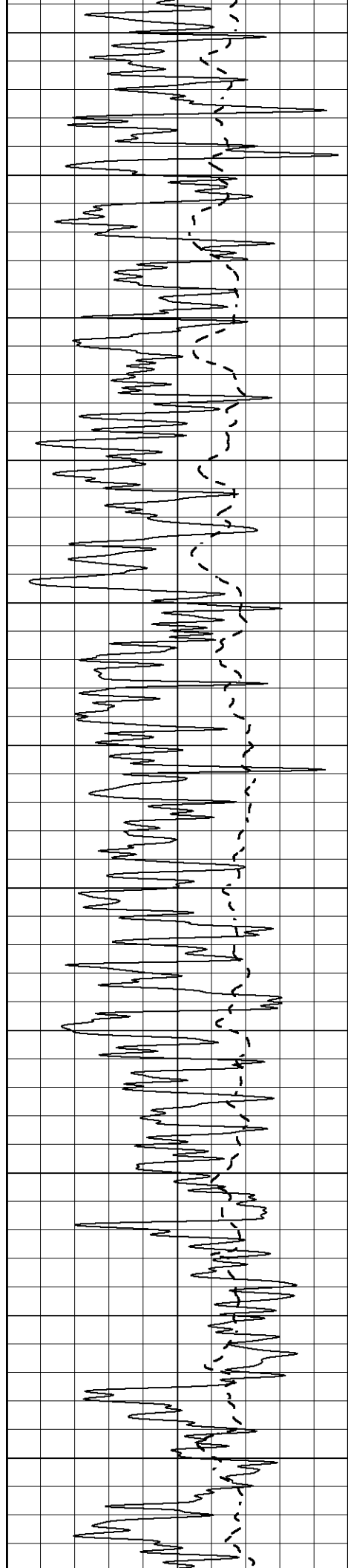
0	Gamma Ray (GAPI)	150	1000	CILD (mmho/m)	0
-100	SP (mV)	100	0	RLL3 (Ohm-m)	50
-----			0	Deep Induction (Ohm-m)	50
			50	RILD X10 (Ohm-m)	500
			50	RLL3 X10 (Ohm-m)	500











2100

2150

2200

2250

2300

2350

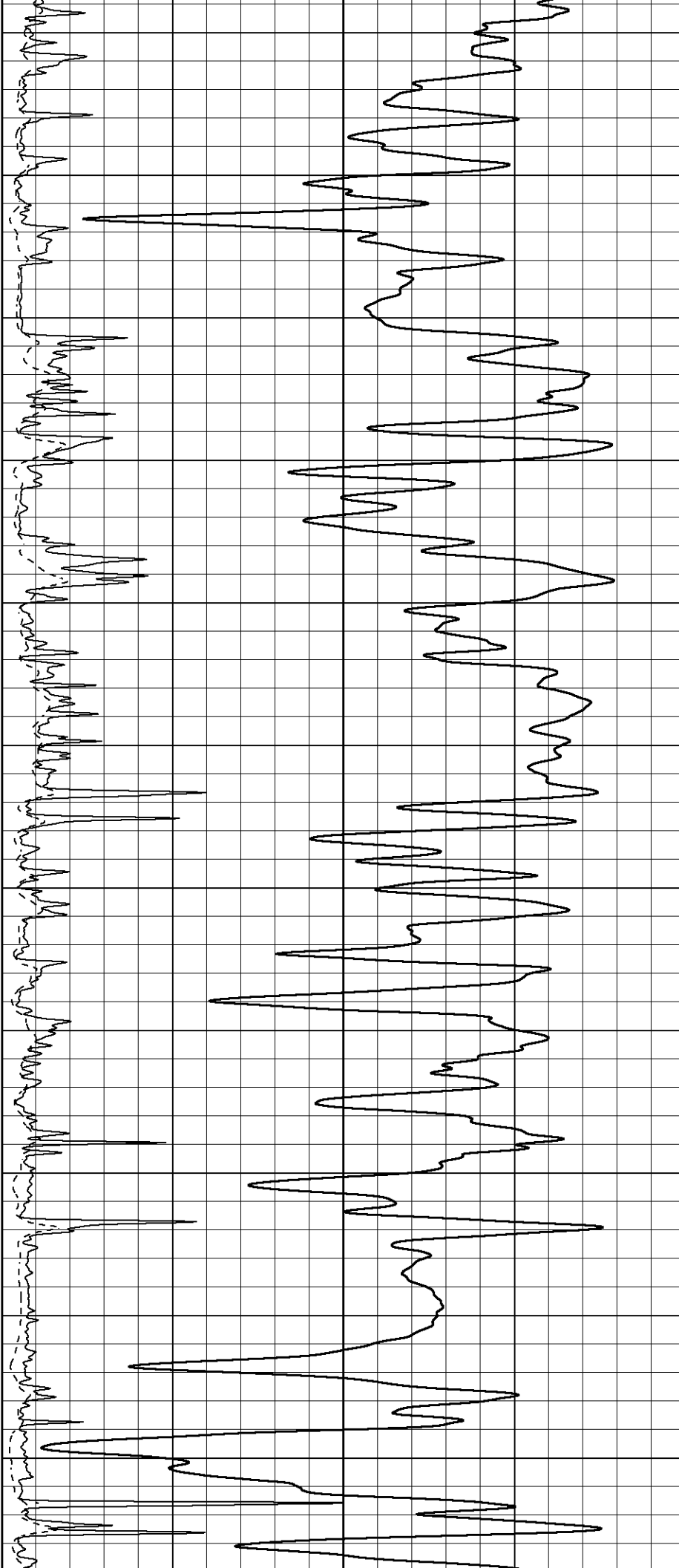
2400

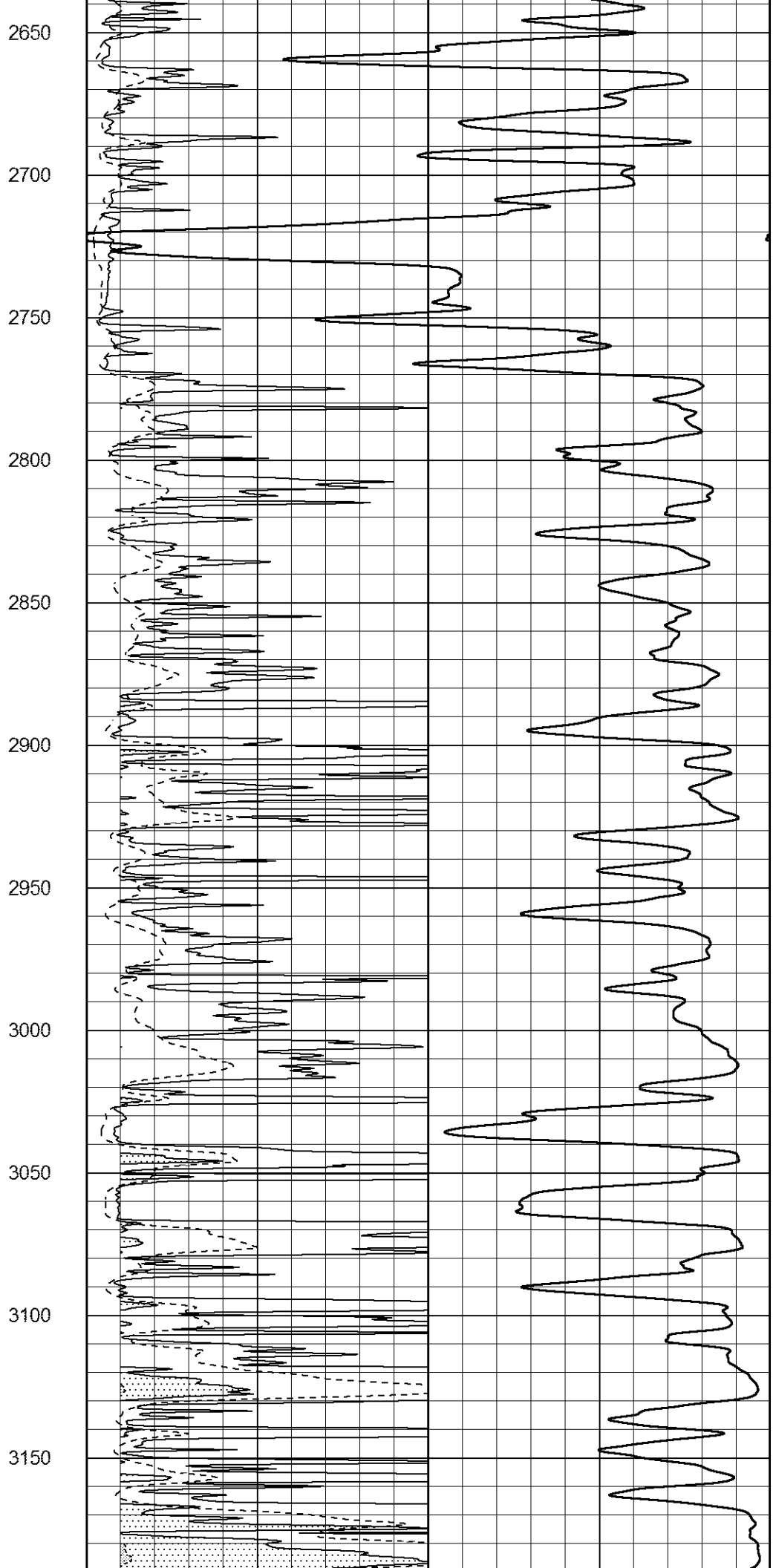
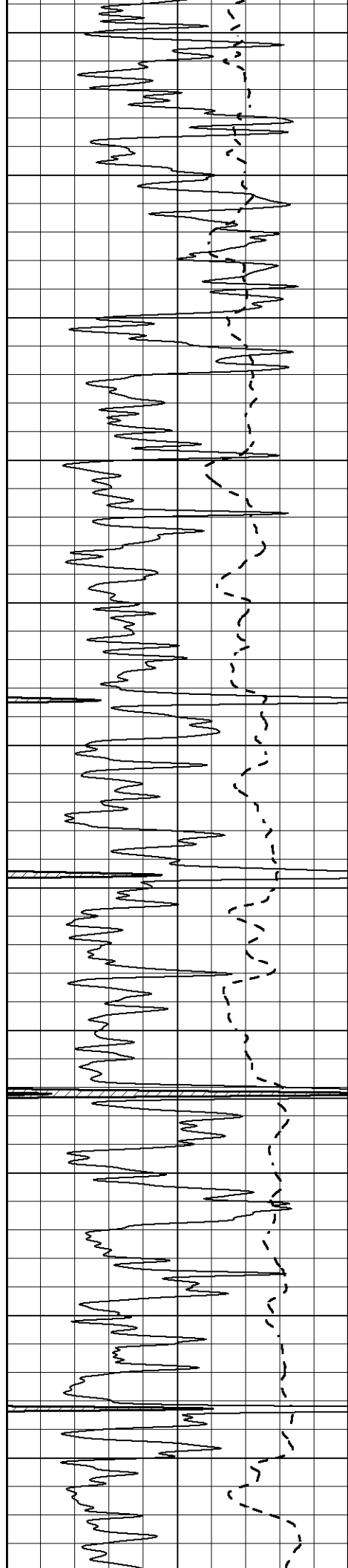
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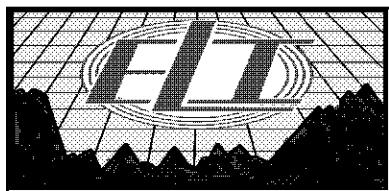
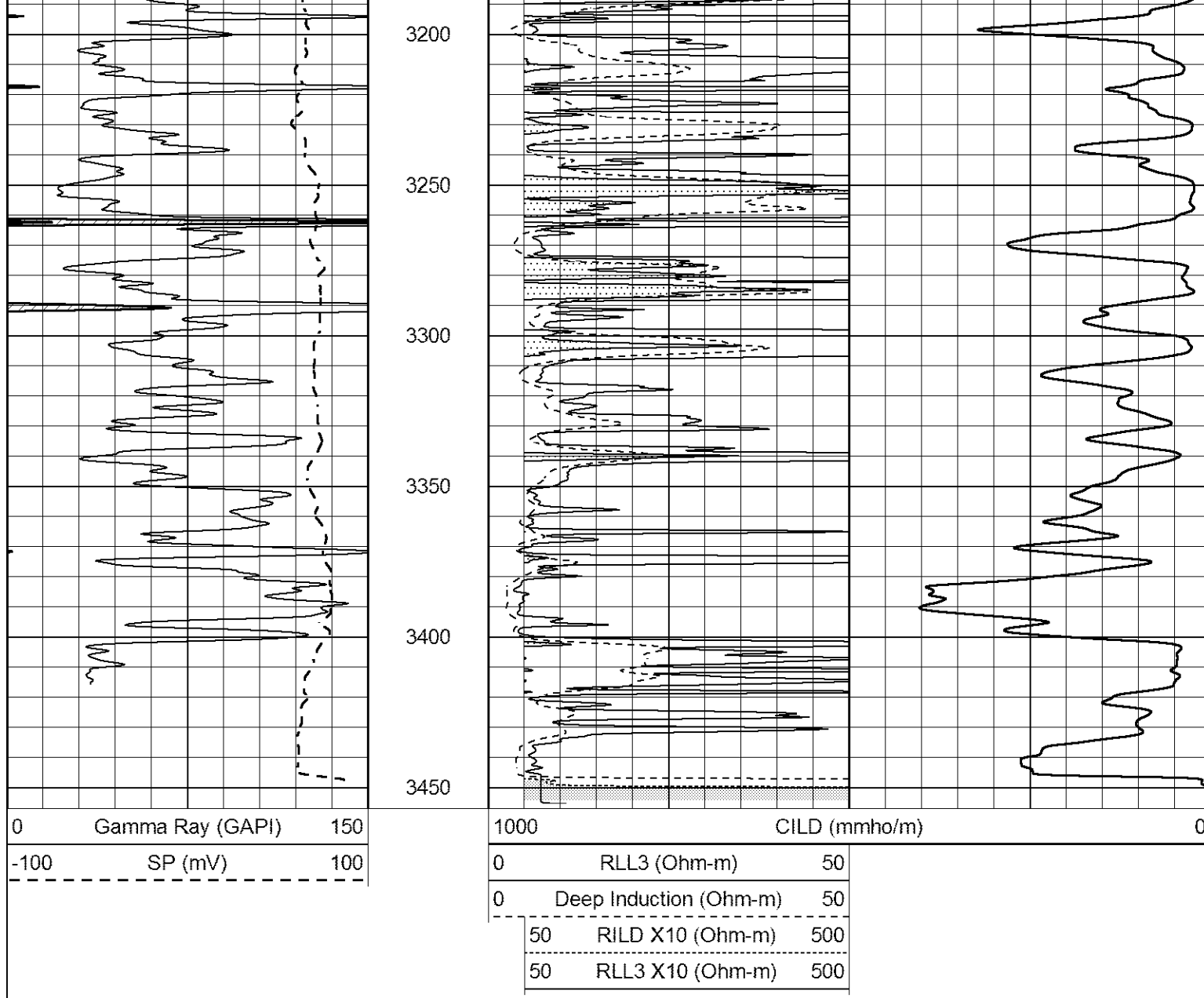
2500

2550

2600

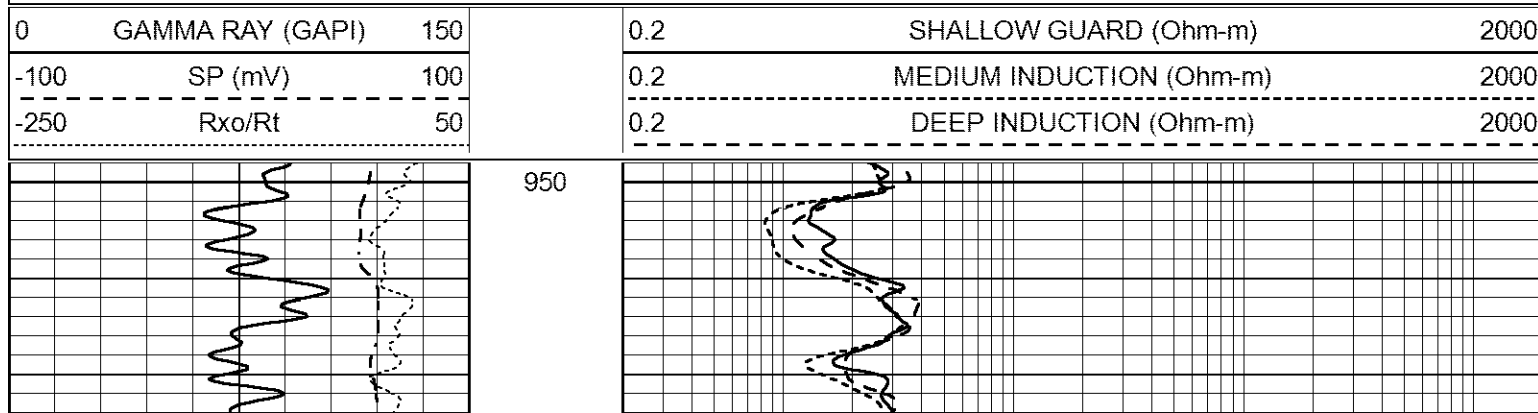


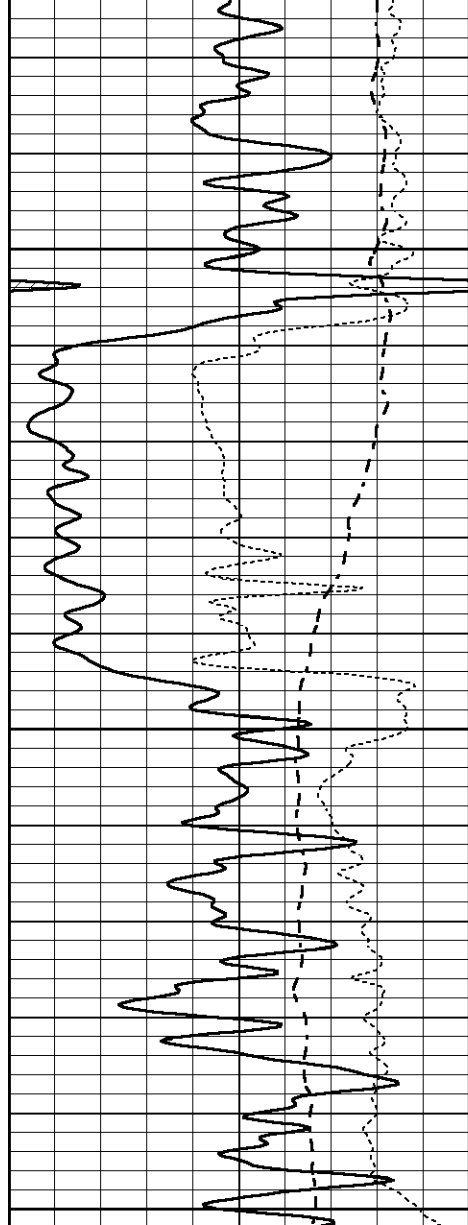




ANHYDRITE

Database File 2518pe8.db
 Dataset Pathname pass3.2
 Presentation Format _dil
 Dataset Creation Sat Aug 11 04:53:18 2018
 Charted by Depth in Feet scaled 1:240



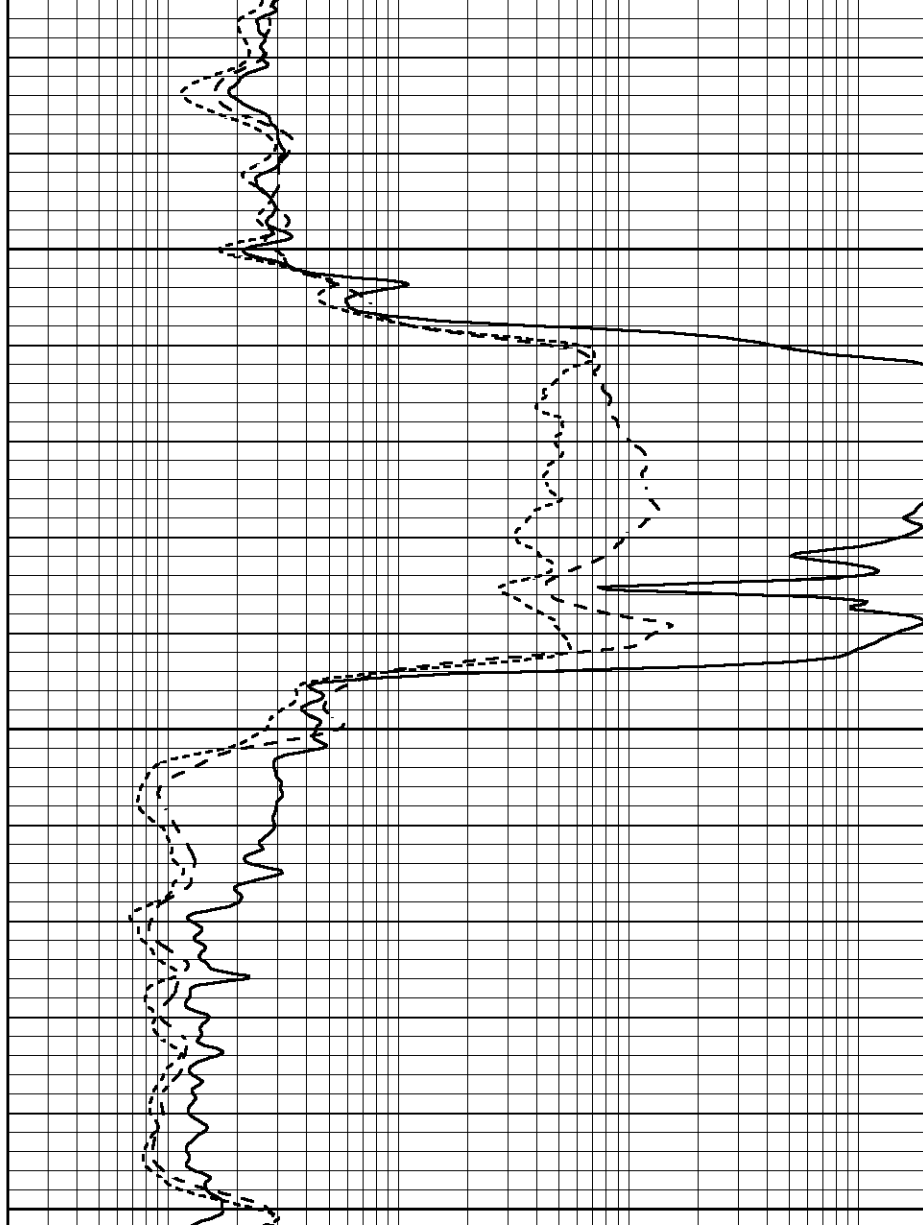


0	GAMMA RAY (GAPI)	150
-100	SP (mV)	100
-250	Rxo/Rt	50

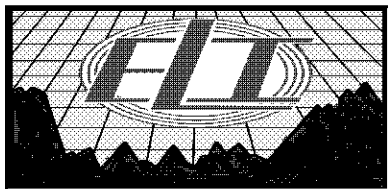
1000

1050

1100



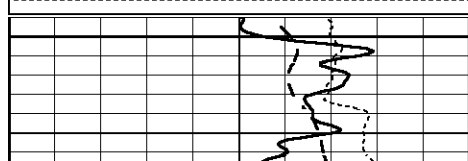
0.2	SHALLOW GUARD (Ohm-m)	2000
0.2	MEDIUM INDUCTION (Ohm-m)	2000
0.2	DEEP INDUCTION (Ohm-m)	2000



MAIN SECTION

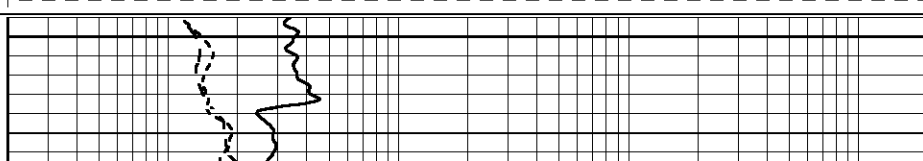
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 Dataset Pathname pass3.1
 Presentation Format _dil
 Dataset Creation Sat Aug 11 04:41:13 2018
 Charted by Depth in Feet scaled 1:240

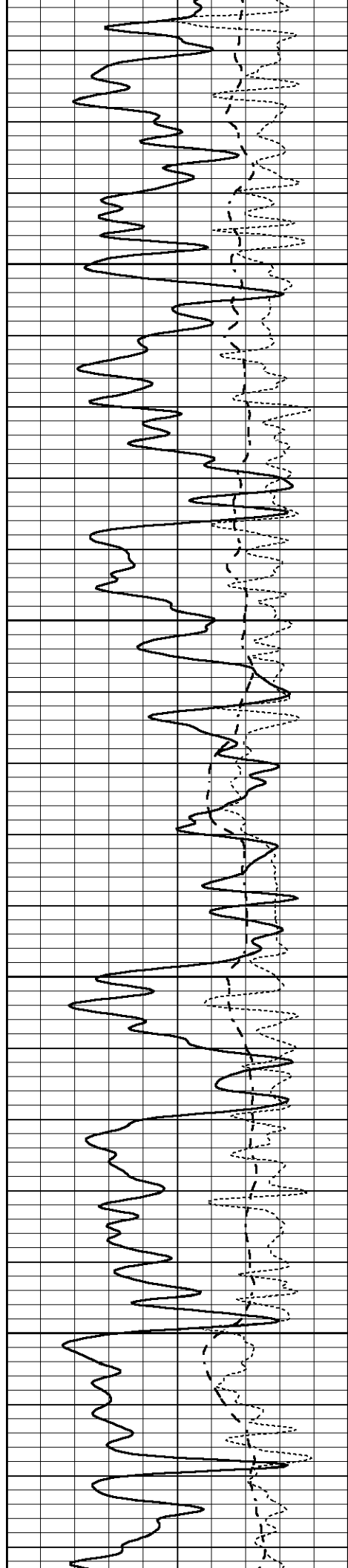
0	GAMMA RAY (GAPI)	150
-100	SP (mV)	100
-250	Rxo/Rt	50



2600

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



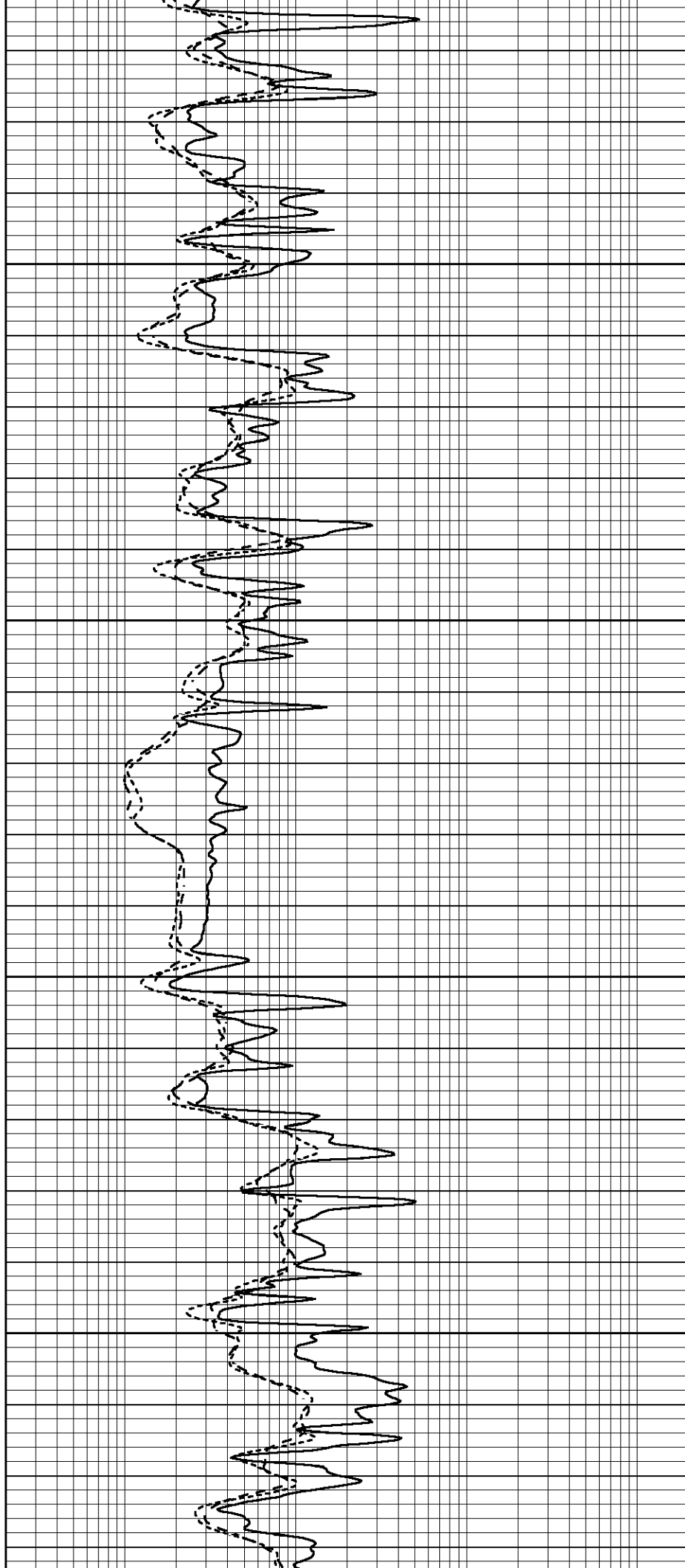


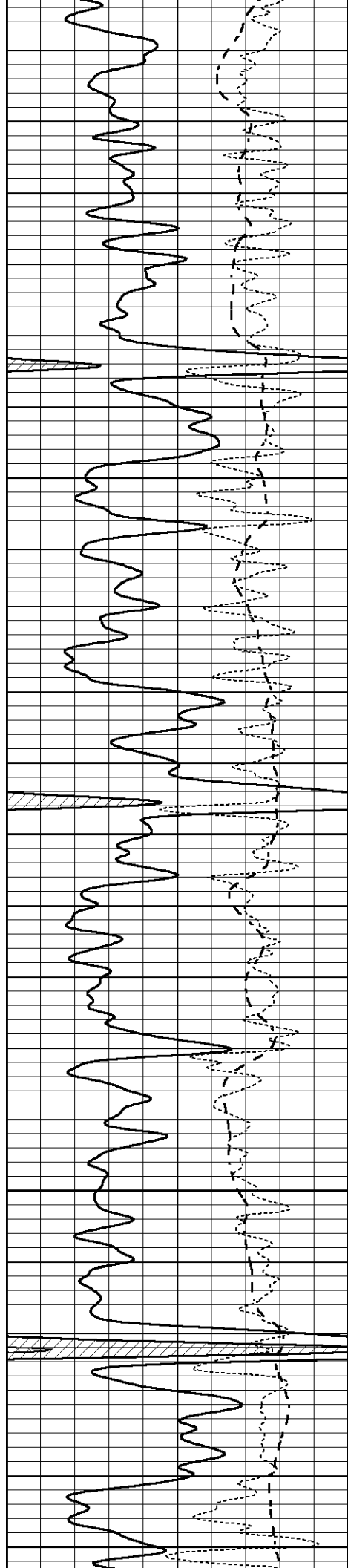
2650

2700

2750

2800





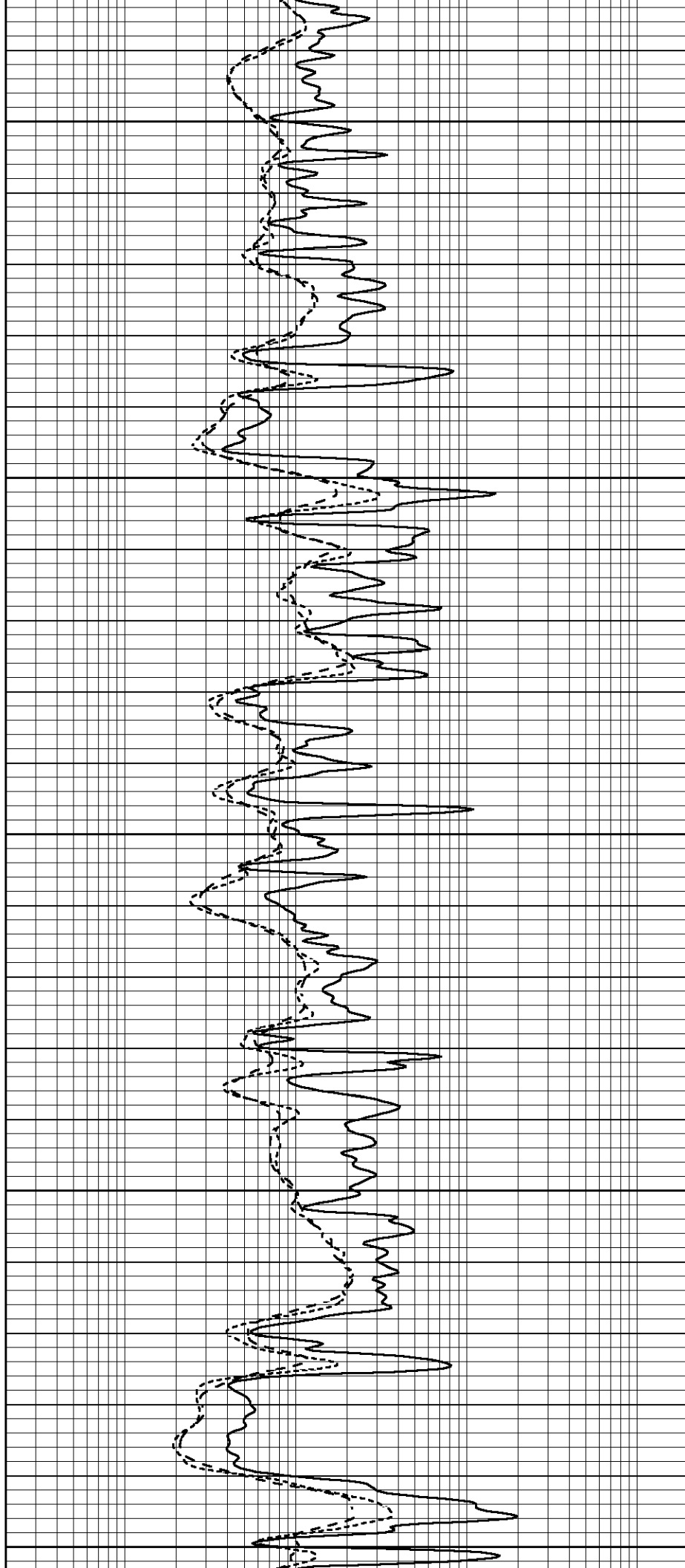
2850

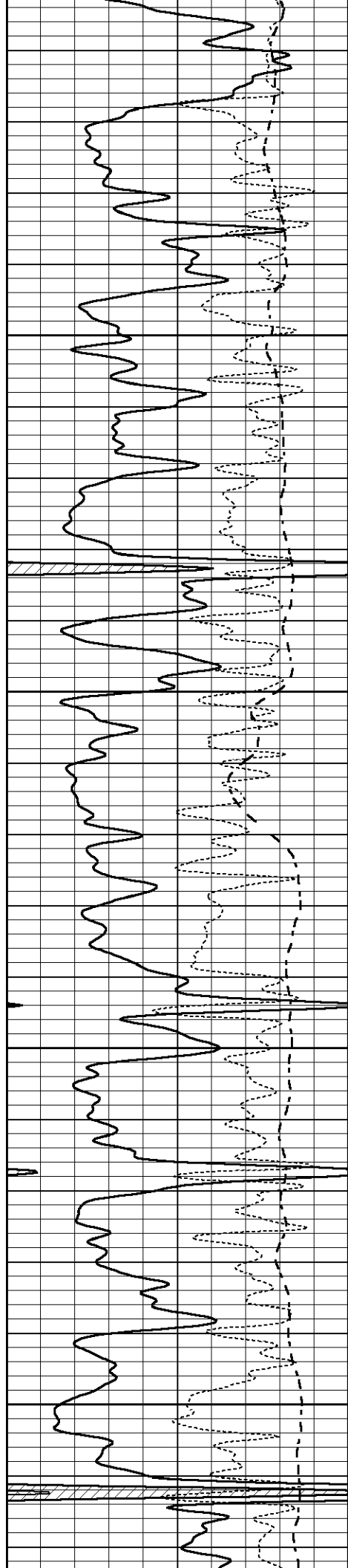
2900

2950

3000

3050



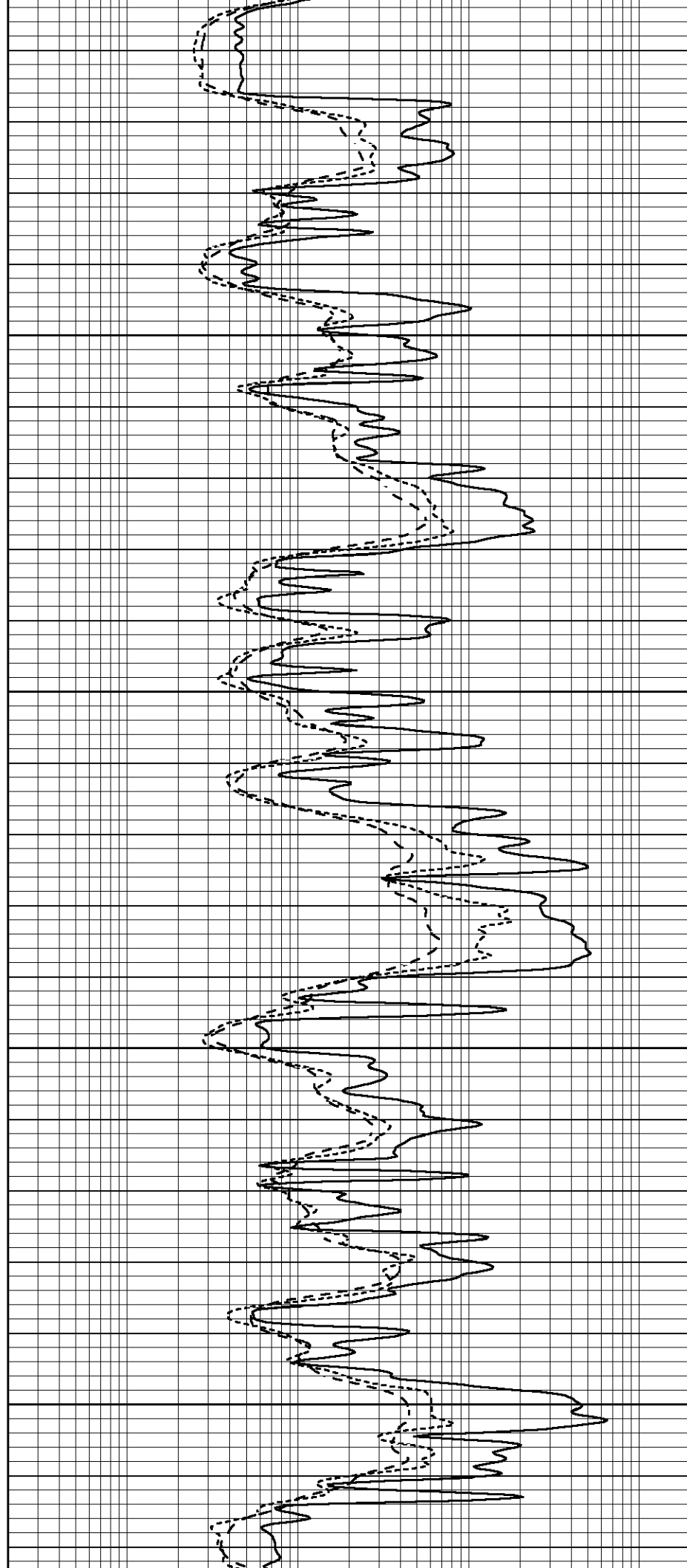


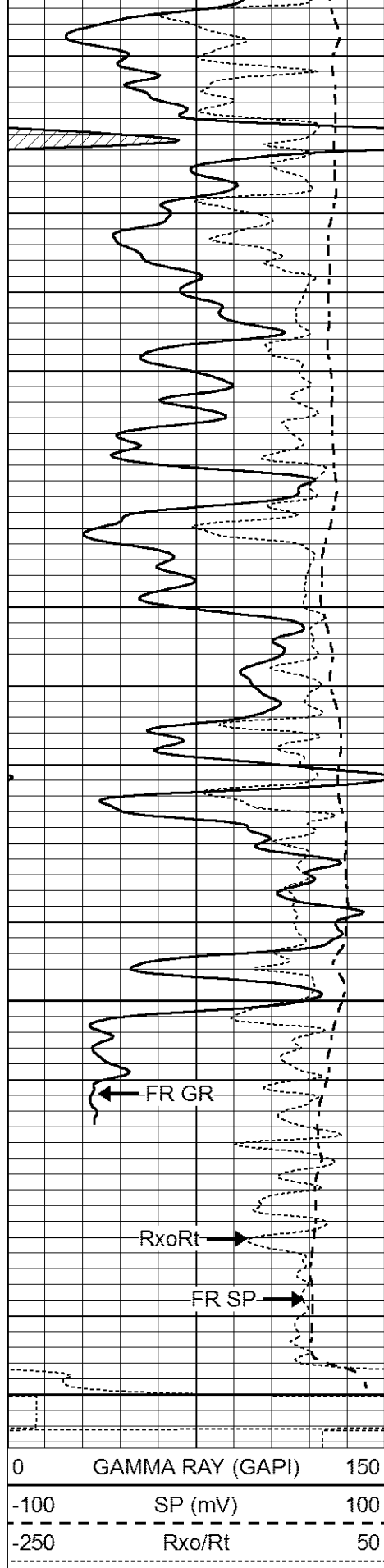
3100

3150

3200

3250

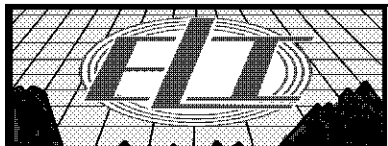
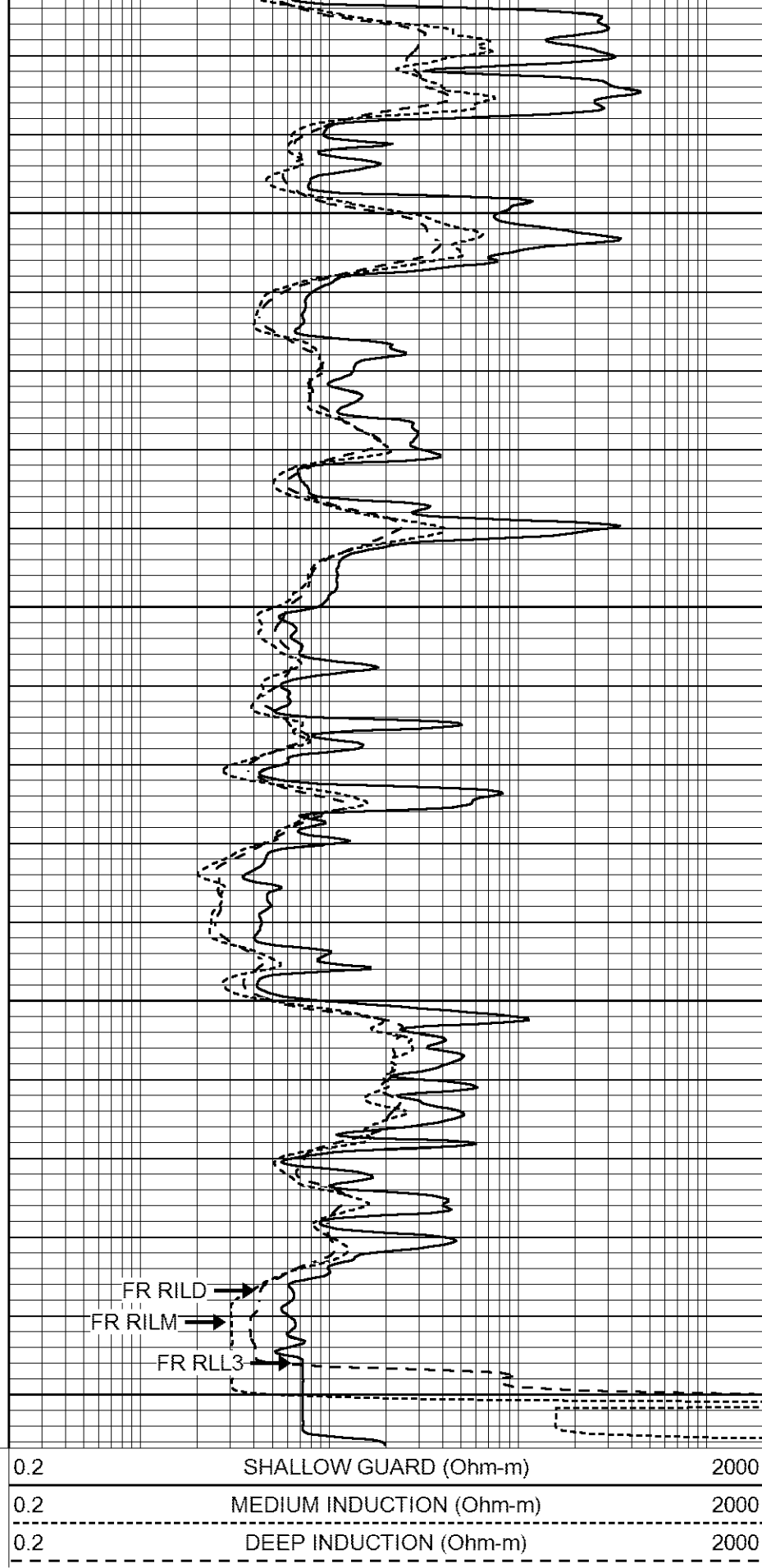




3300

3350

3400

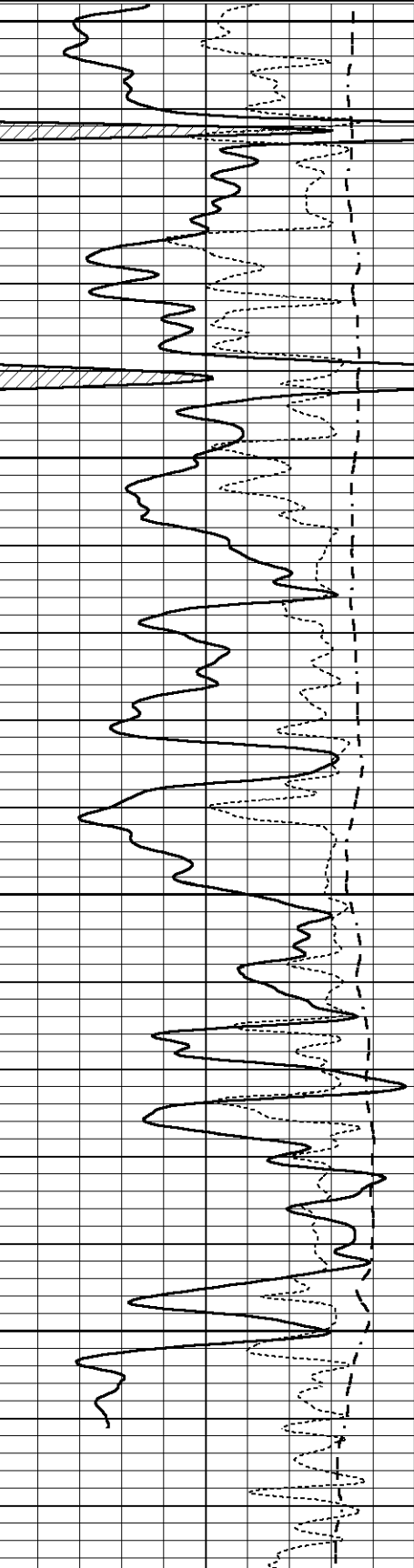


REPEAT SECTION

Database File 2518pe8.db
Dataset Pathname pass2.2
Presentation Format _dil
Dataset Creation Sat Aug 11 04:32:19 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

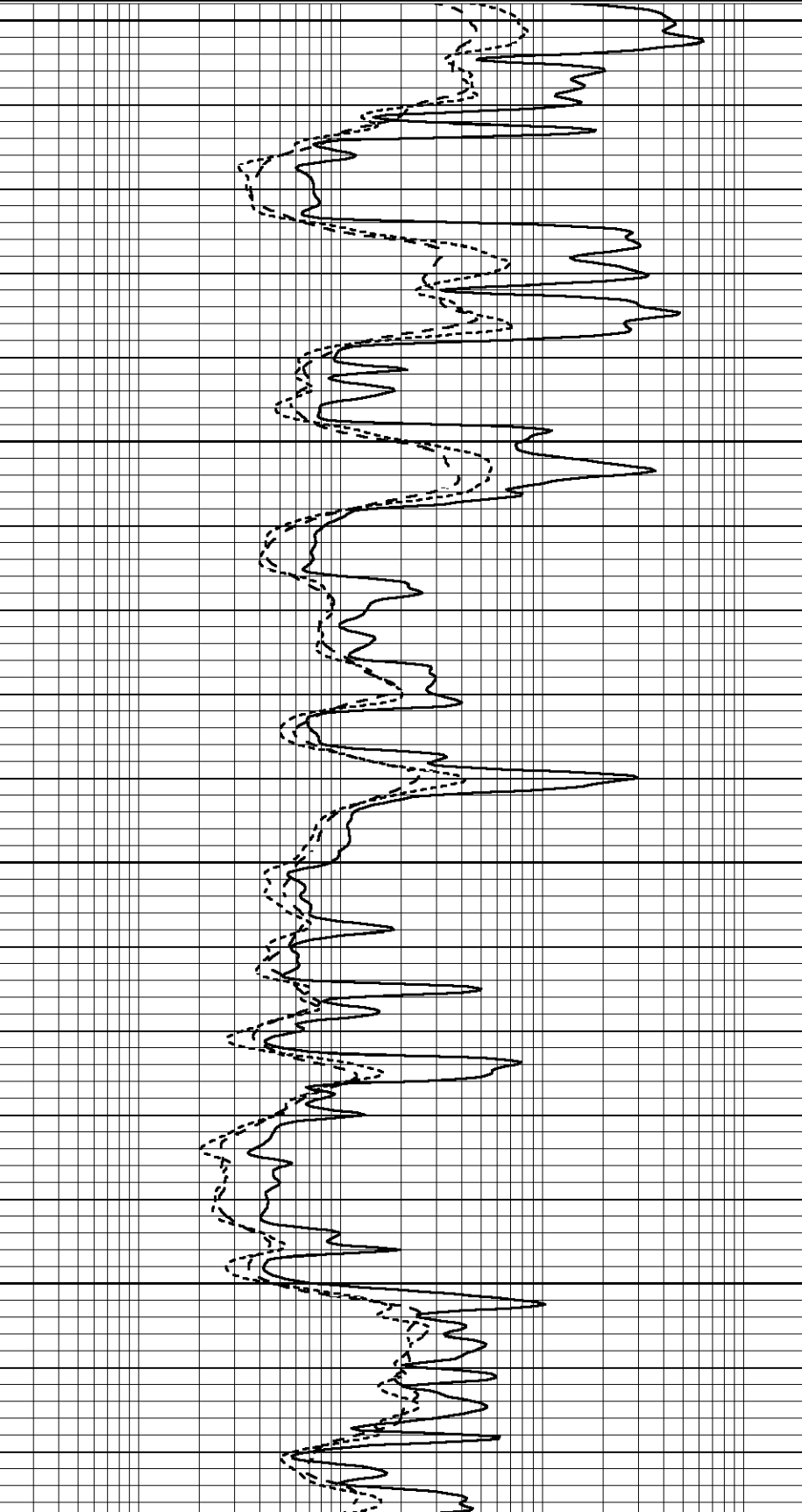


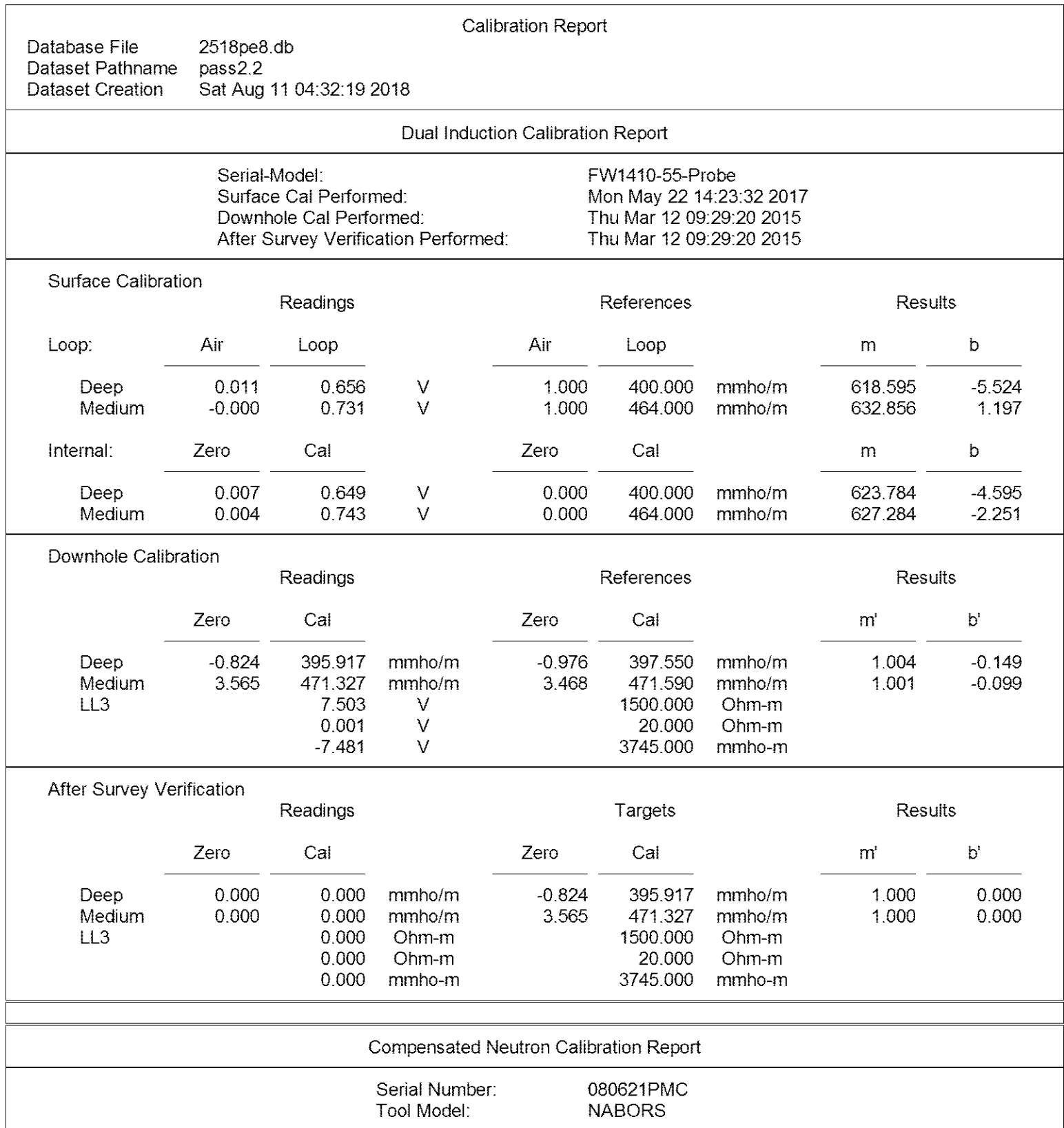
3250

3300

3350

3400





PRE-SURVEY VERIFICATION

Detector	Readings	Measured	Target
Short Space	cps		
Long Space	cps	pu	pu

POST-SURVEY VERIFICATION

Detector	Readings	Measured	Target
Short Space	cps		
Long Space	cps	pu	pu

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:	0.4300	GAPI/cps