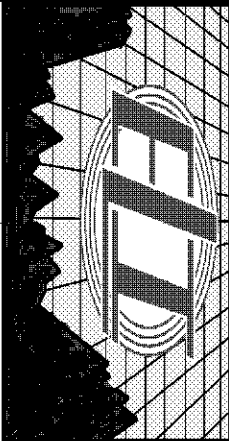


DUAL INDUCTION LOG



Company		DOWNING NELSON OIL COMPANY, INC.	
Well		SCHMIDT FAMILY #1-6	
Field		WILDCAT	
County		ELLIS	
State		KANSAS	
Location:		API # : 15-051-26915-0000	
SEC 6 TWP 15S RGE 18W		2285' FNL & 970' FEL	
Permanent Datum		GROUND LEVEL Elevation 2029	
Log Measured From		KELLY BUSHING 8' A.G.L	
Drilling Measured From		KELLY BUSHING	
Other Services		CDL/CNL MEL/SON	
Elevation		K.B. 2037 D.F. 2035 G.L. 2029	
Date	6/18/18		
Run Number	ONE		
Depth Driller	3727		
Depth Logger	3728		
Bottom Logged Interval	3726		
Top Log Interval	00		
Casing Driller	8 5/8" @ 1022		
Casing Logger	1020		
Bit Size	7 7/8		
Type Fluid in Hole	CHEMICAL MUD		
Density / Viscosity	9.0/54		
pH / Fluid Loss	9.5/8.0		
Source of Sample	FLOWLINE		
Rm @ Meas. Temp	.75 @ 81F		
Rmf @ Meas. Temp	.56 @ 81F		
Rmc @ Meas. Temp	.90 @ 81F		
Source of Rmf / Rmc	MEASUREMENT		
Rm @ BHT	.53 @ 114F		
Time Circulation Stopped	2 HOURS		
Time Logger on Bottom	////		
Maximum Recorded Temperature	114F		
Equipment Number	3802		
Location	HAYS, KANSAS		
Recorded By	JASON CAPPELLUCCI		
Witnessed By	MARC DOWNING		

<<< 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 ELI WIRELINE SERVICES, HAYS, KS. (785) 628-6395
DIRECTIONS
HAYS KS. - SOUTH ON HWY 183 TO ANTONINO RD. - 2 WEST TO RD. 230 - 1/2 SOUTH
WEST INTO

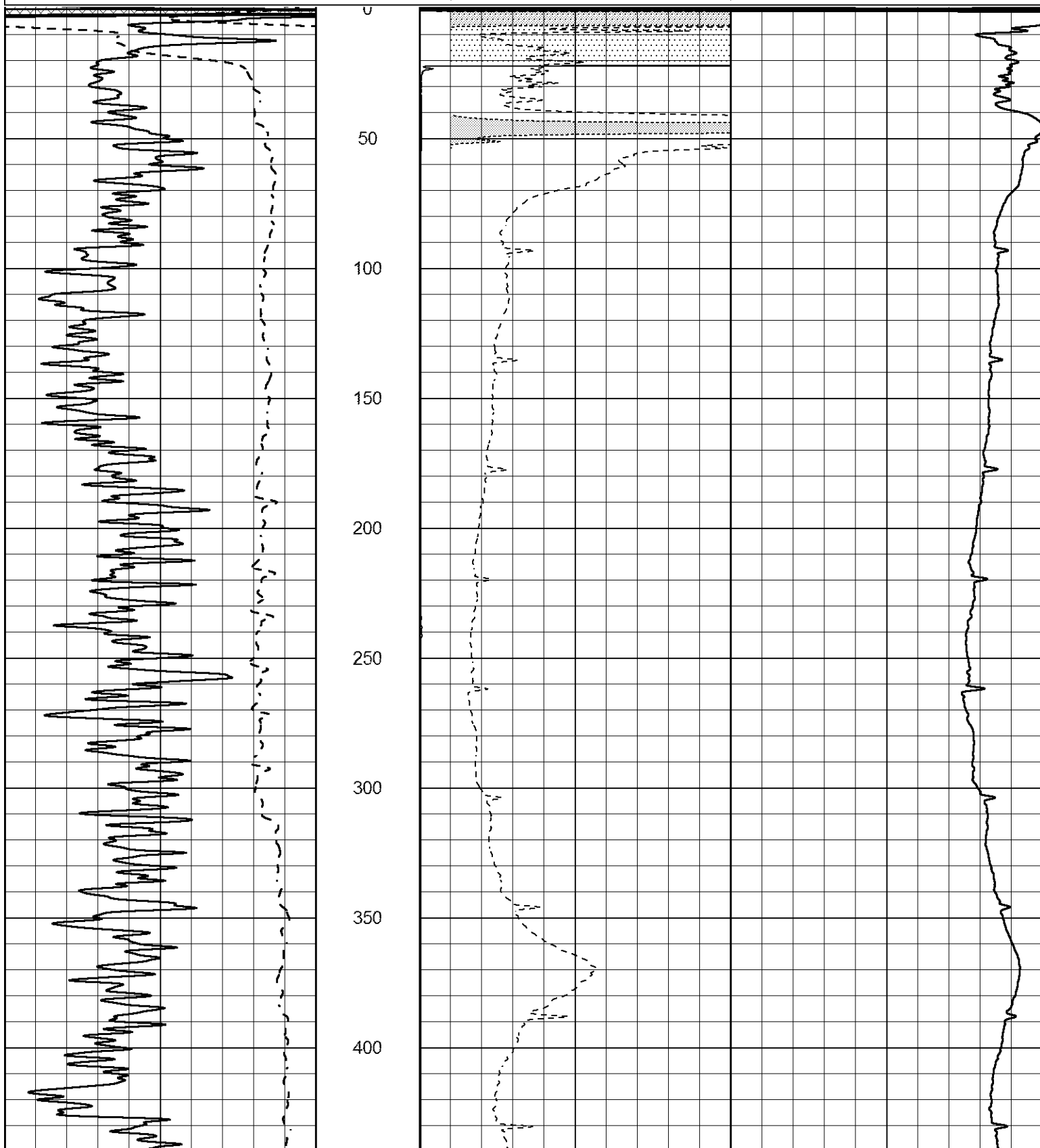


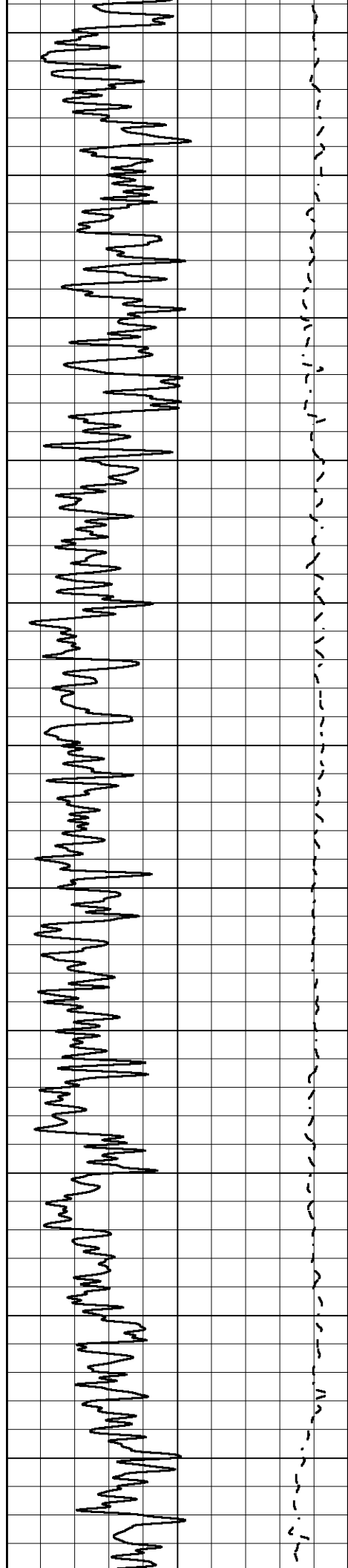
MAIN SECTION

Database File 2508ddn.db
Dataset Pathname pass5.3
Presentation Format _dil2
Dataset Creation Mon Jun 18 19:28:51 2018
Charted by Depth in Feet scaled 1:600

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

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





450

500

550

600

650

700

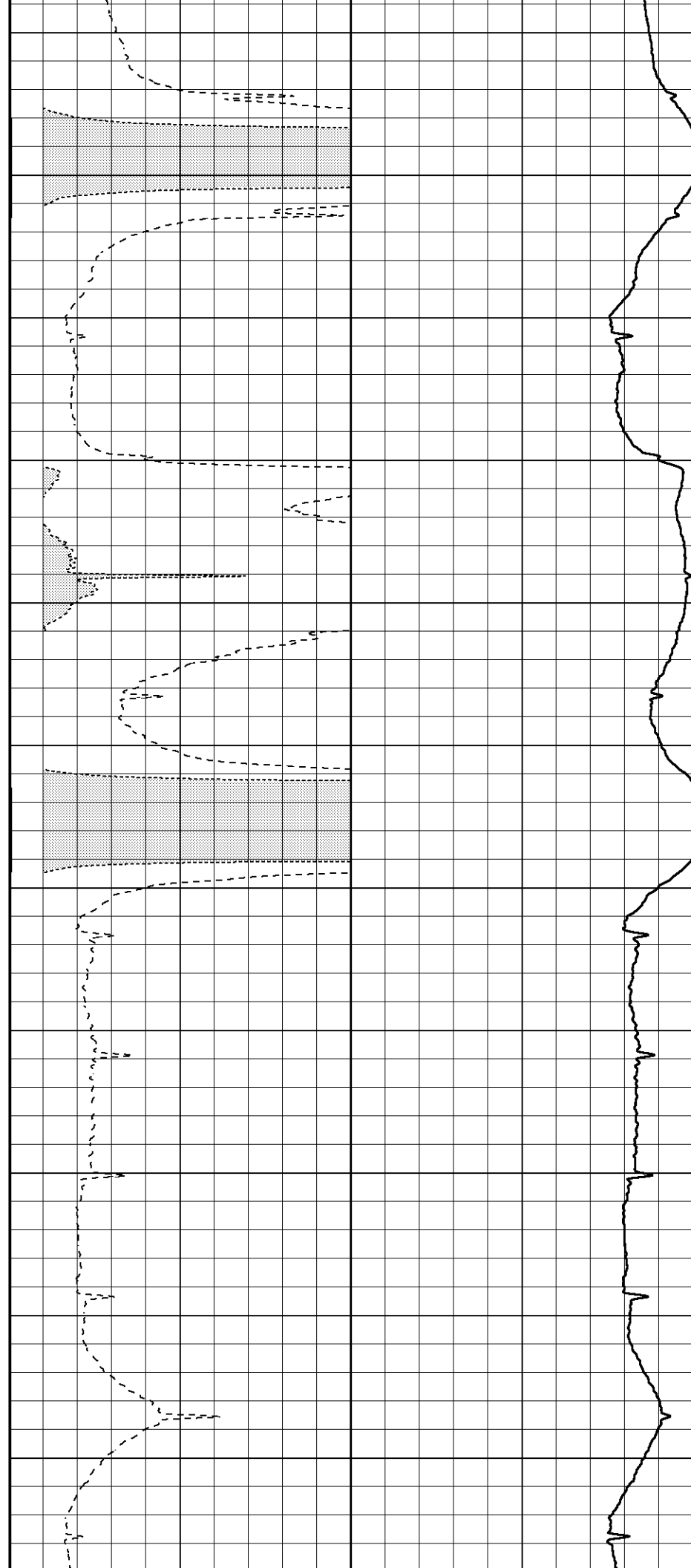
750

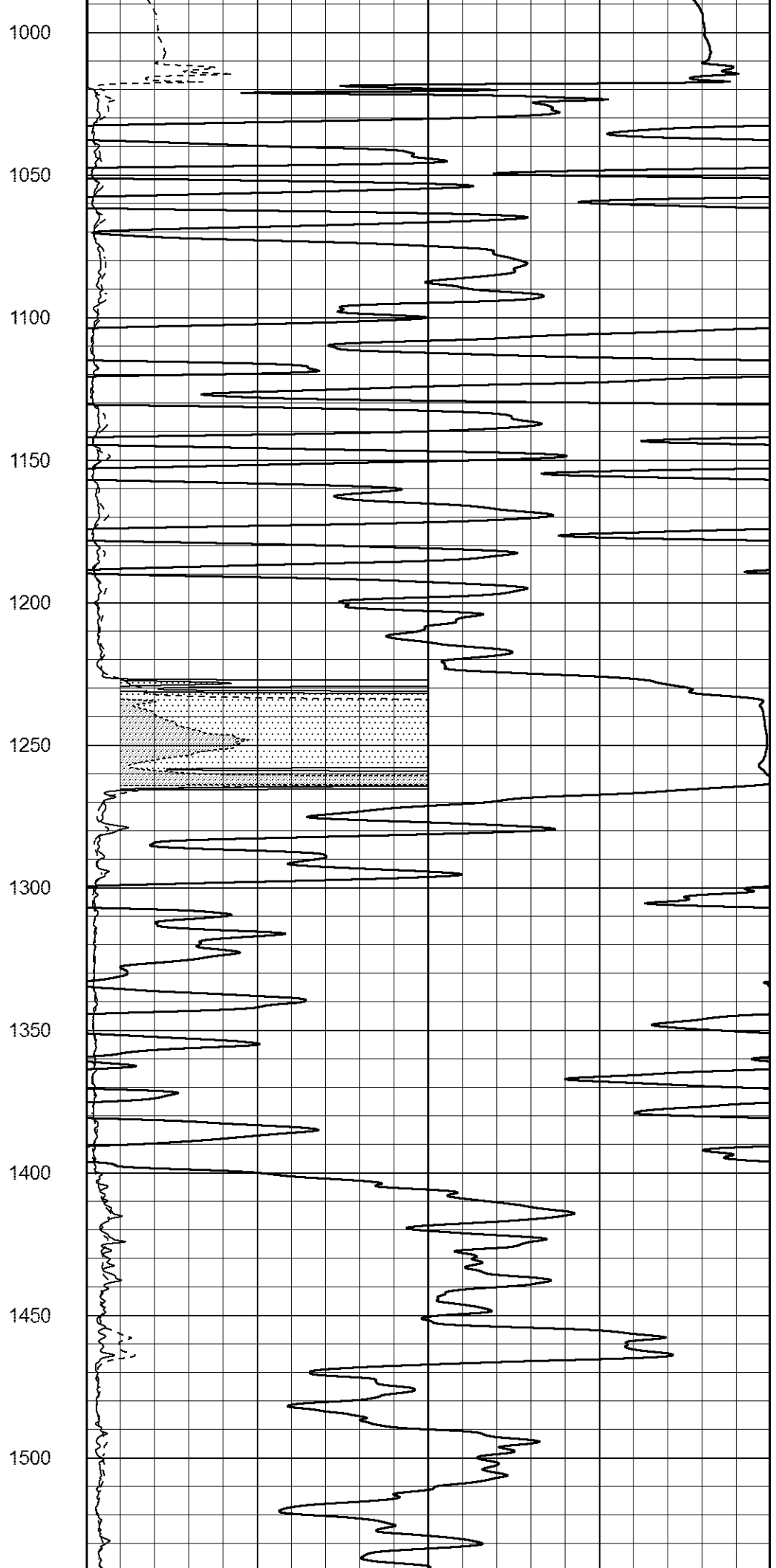
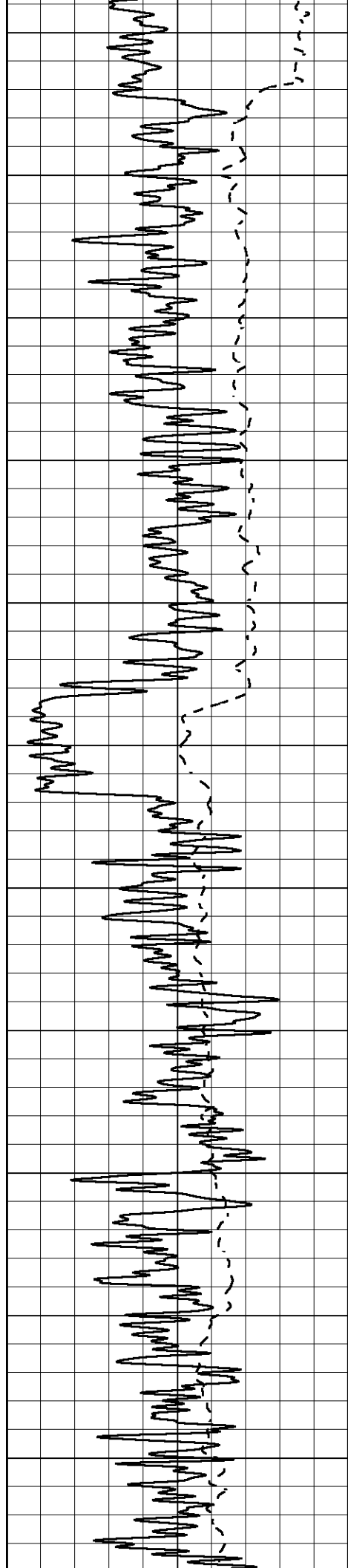
800

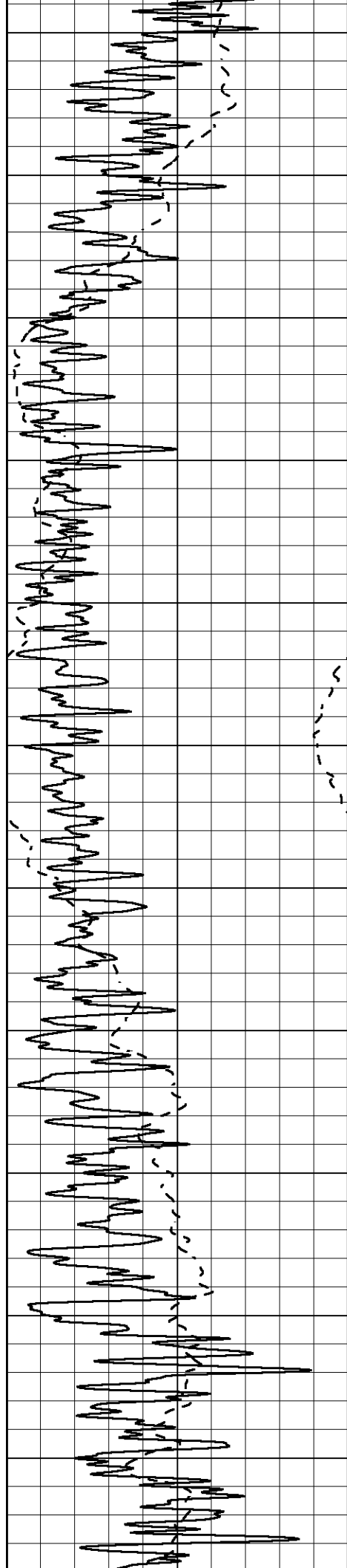
850

900

950







1550

1600

1650

1700

1750

1800

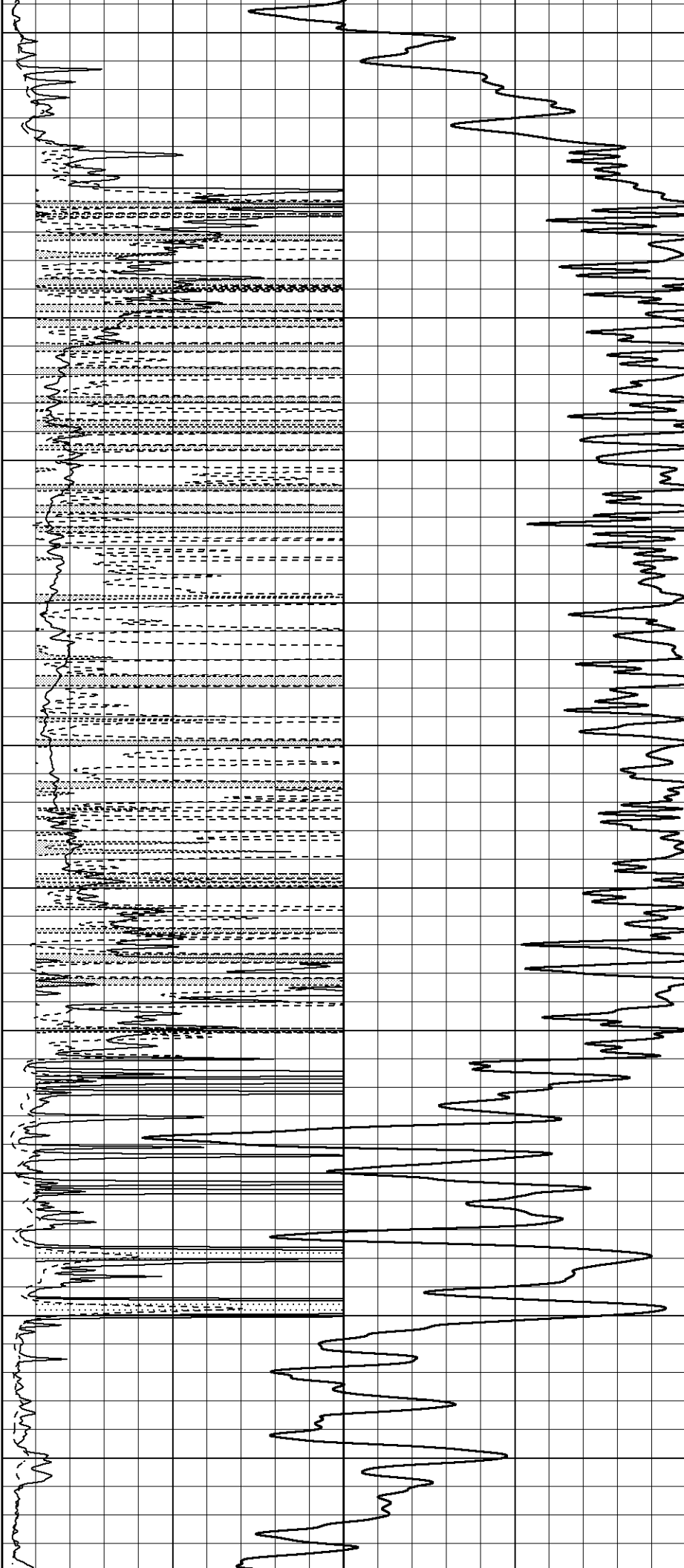
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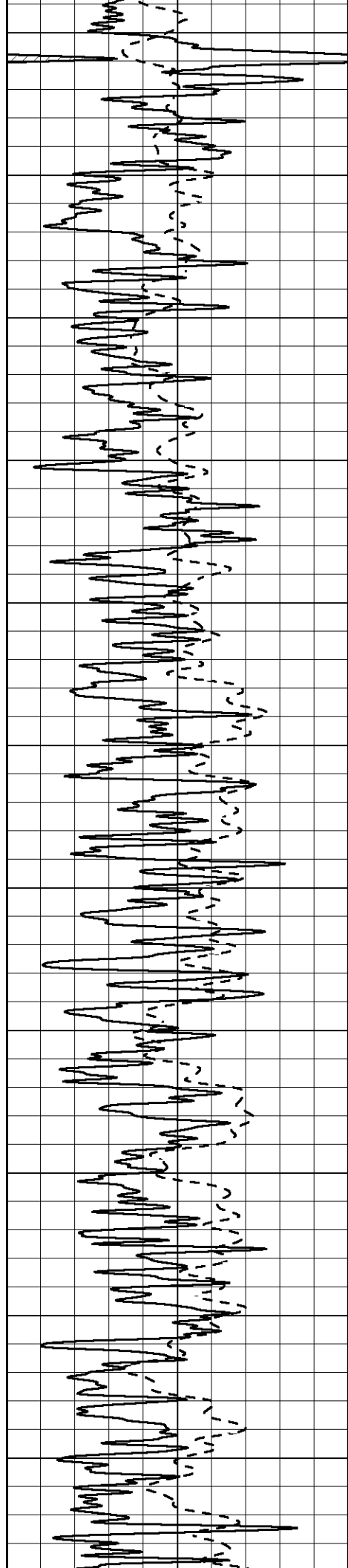
1900

1950

2000

2050





2100

2150

2200

2250

2300

2350

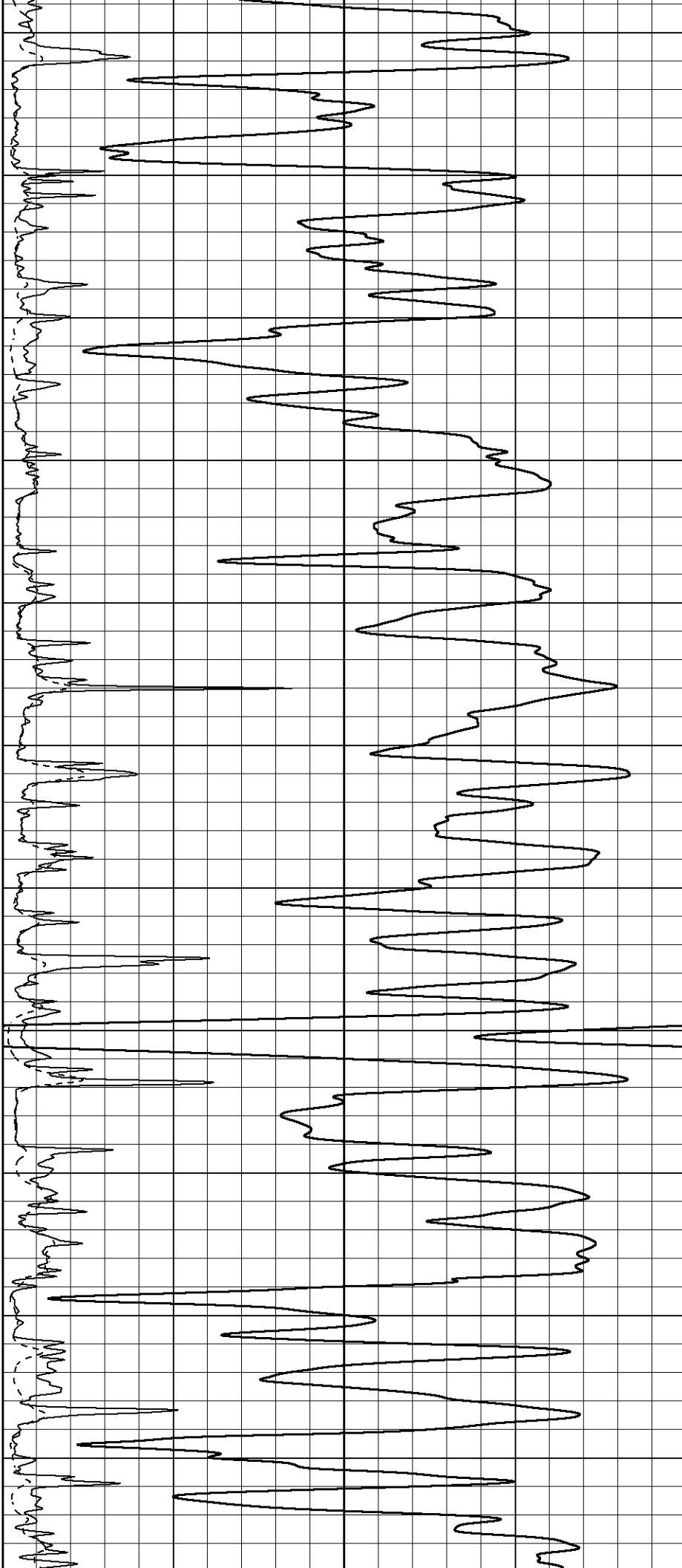
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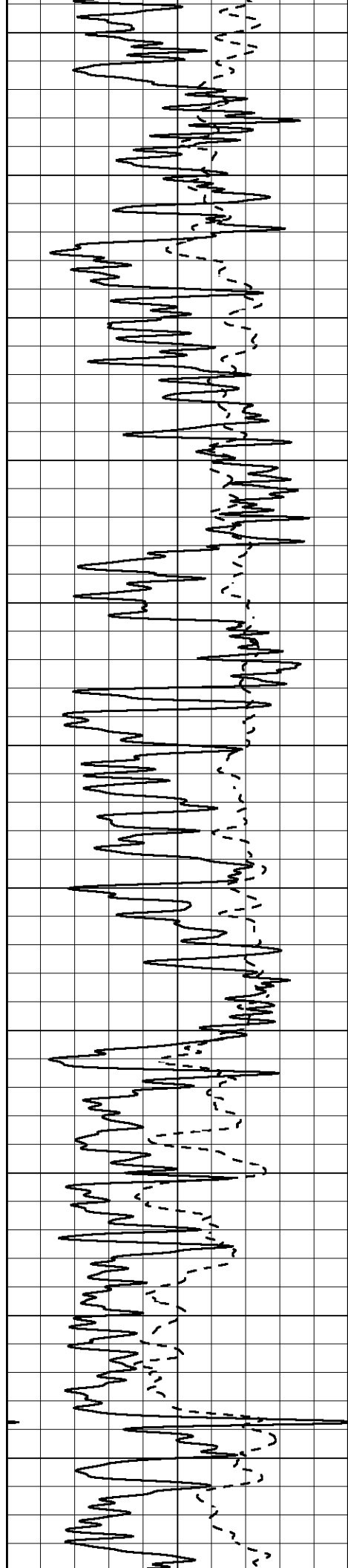
2450

2500

2550

2600





2650

2700

2750

2800

2850

2900

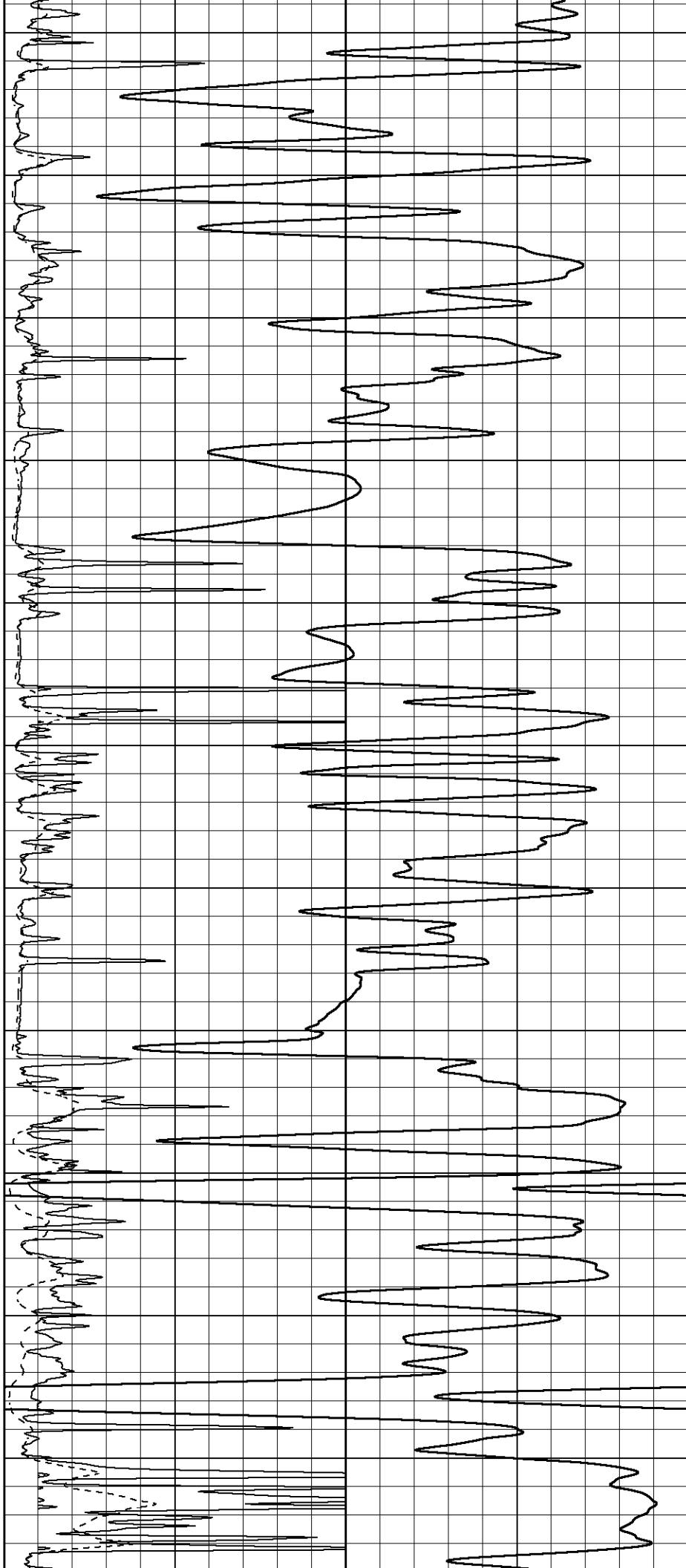
2950

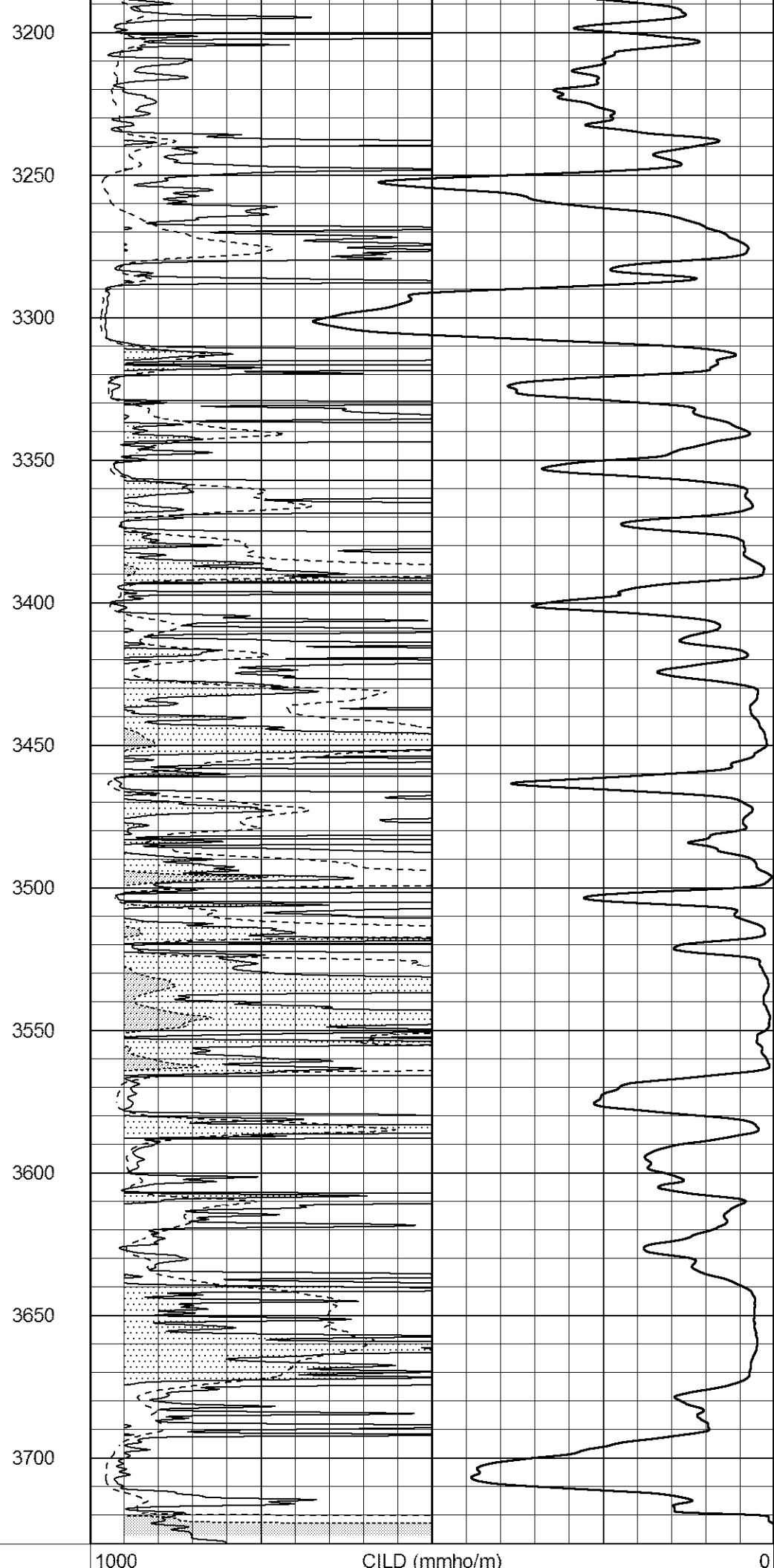
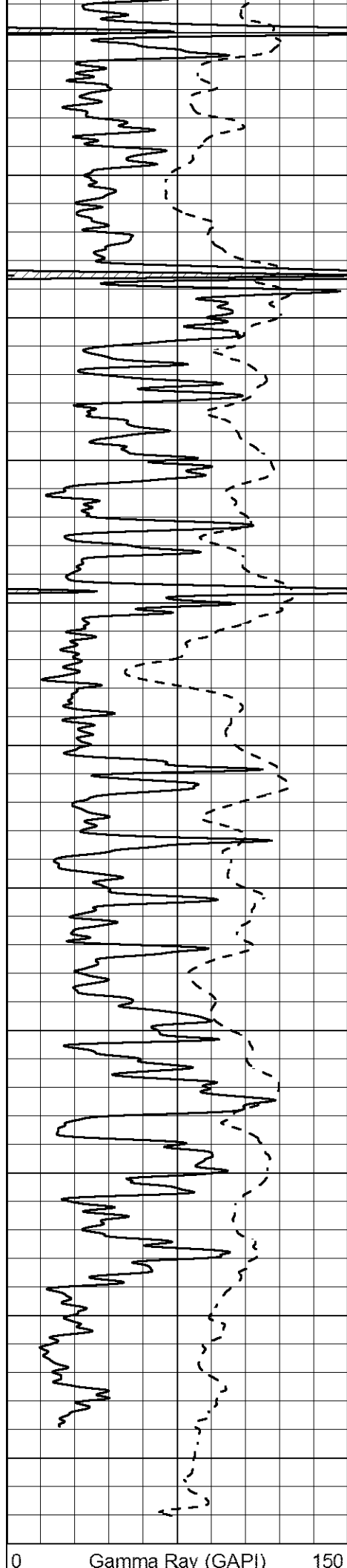
3000

3050

3100

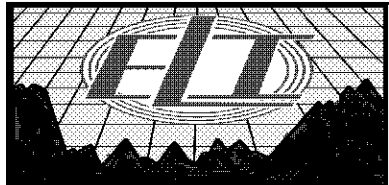
3150





-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

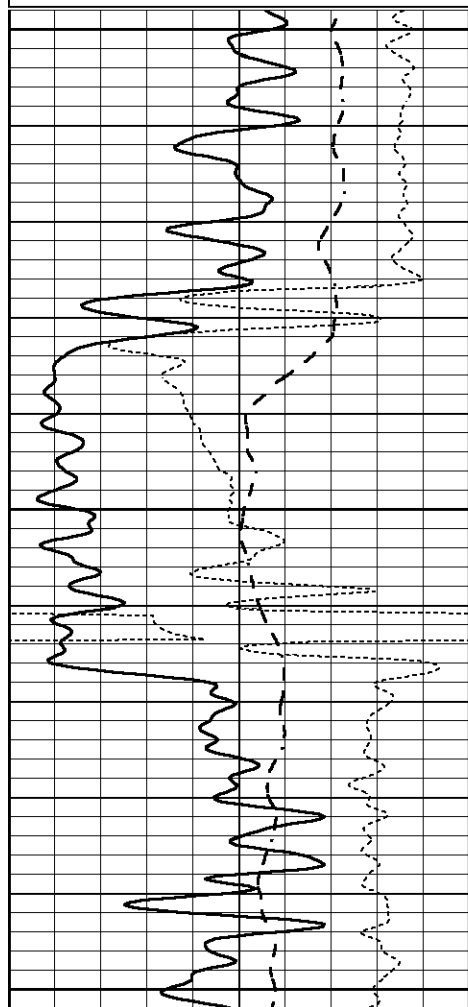


ANHYDRITE

Database File 2508ddn.db
 Dataset Pathname pass5.2
 Presentation Format _dil
 Dataset Creation Mon Jun 18 18:37:23 2018
 Charted by Depth in Feet scaled 1:240

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

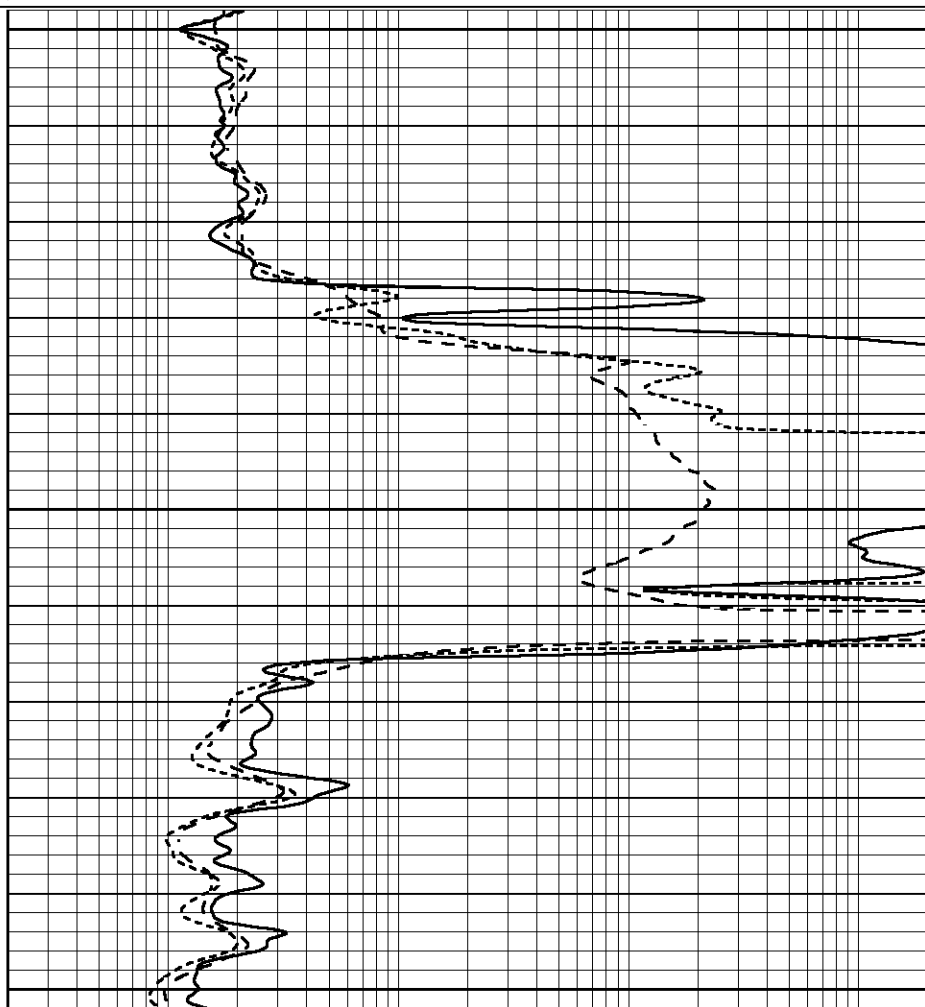
0.2	SHALLOW GUARD (Ohm-m)	2000
0.2	MEDIUM INDUCTION (Ohm-m)	2000
0.2	DEEP INDUCTION (Ohm-m)	2000



1200

1250

1300



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

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



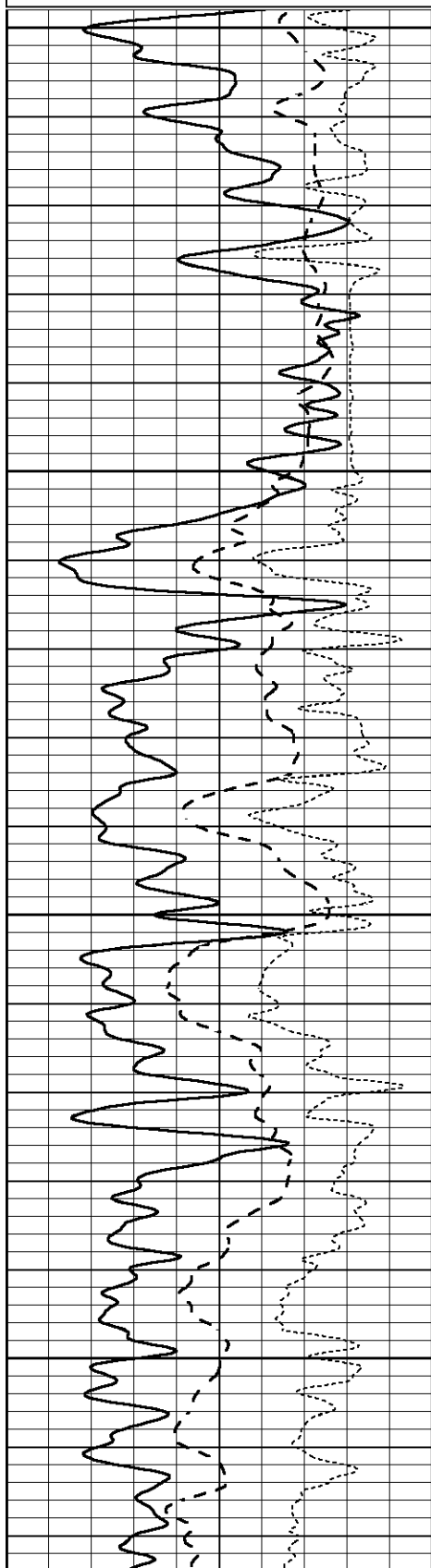
MAIN SECTION

MAIN SECTION

Database File 2508ddn.db
 Dataset Pathname pass5.1
 Presentation Format _dil
 Dataset Creation Mon Jun 18 18:22:30 2018
 Charted by Depth in Feet scaled 1:240

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

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

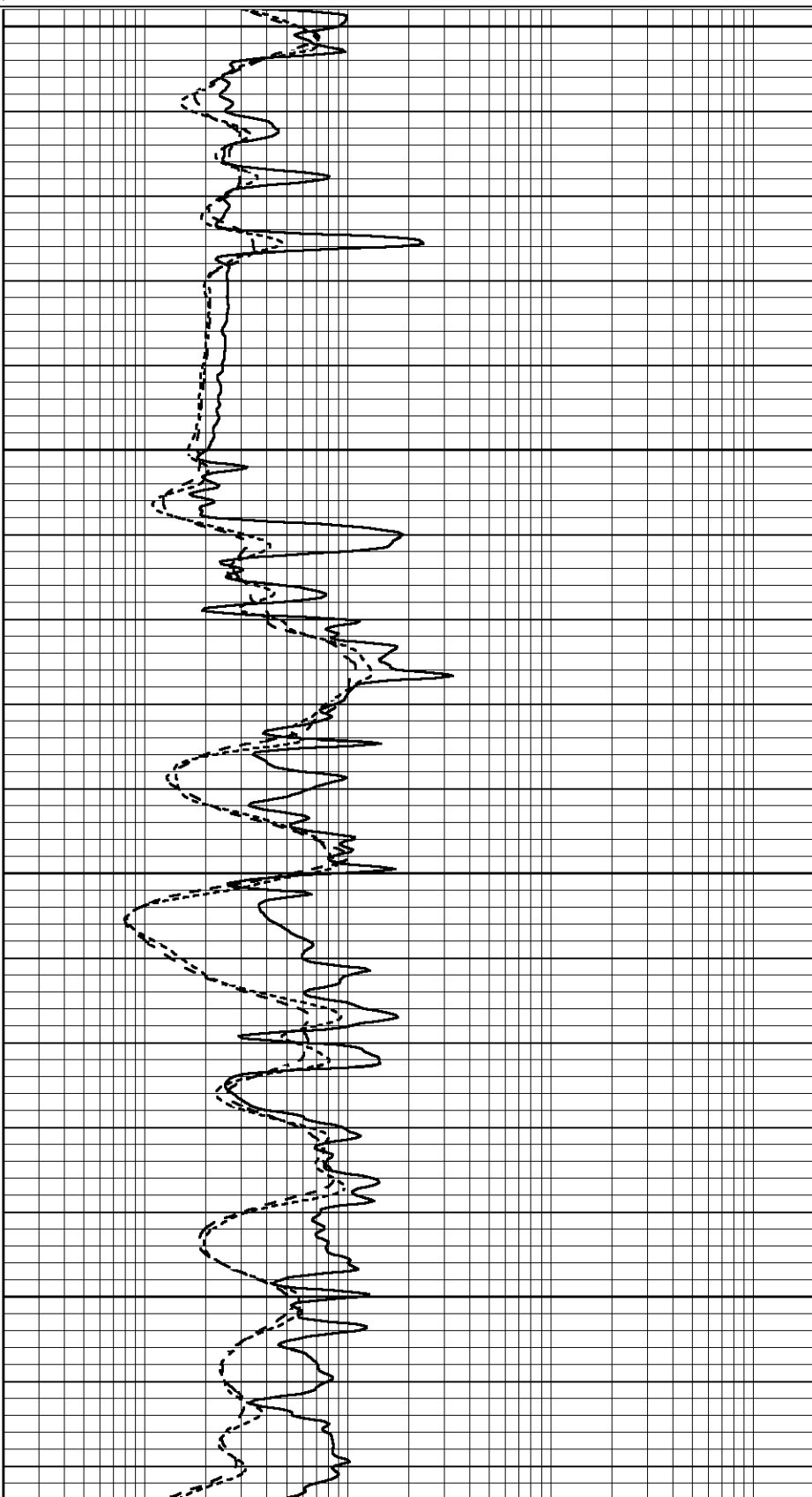


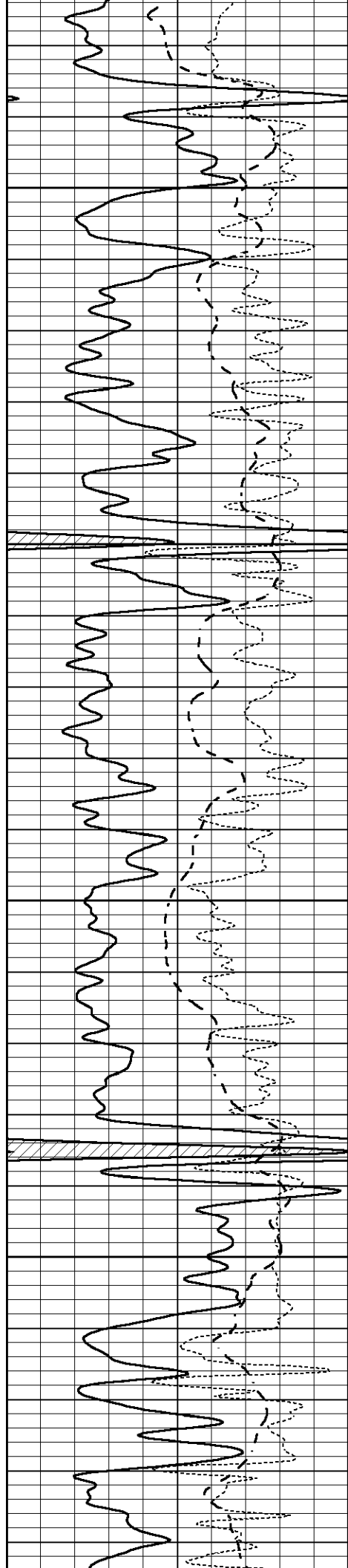
2950

3000

3050

3100



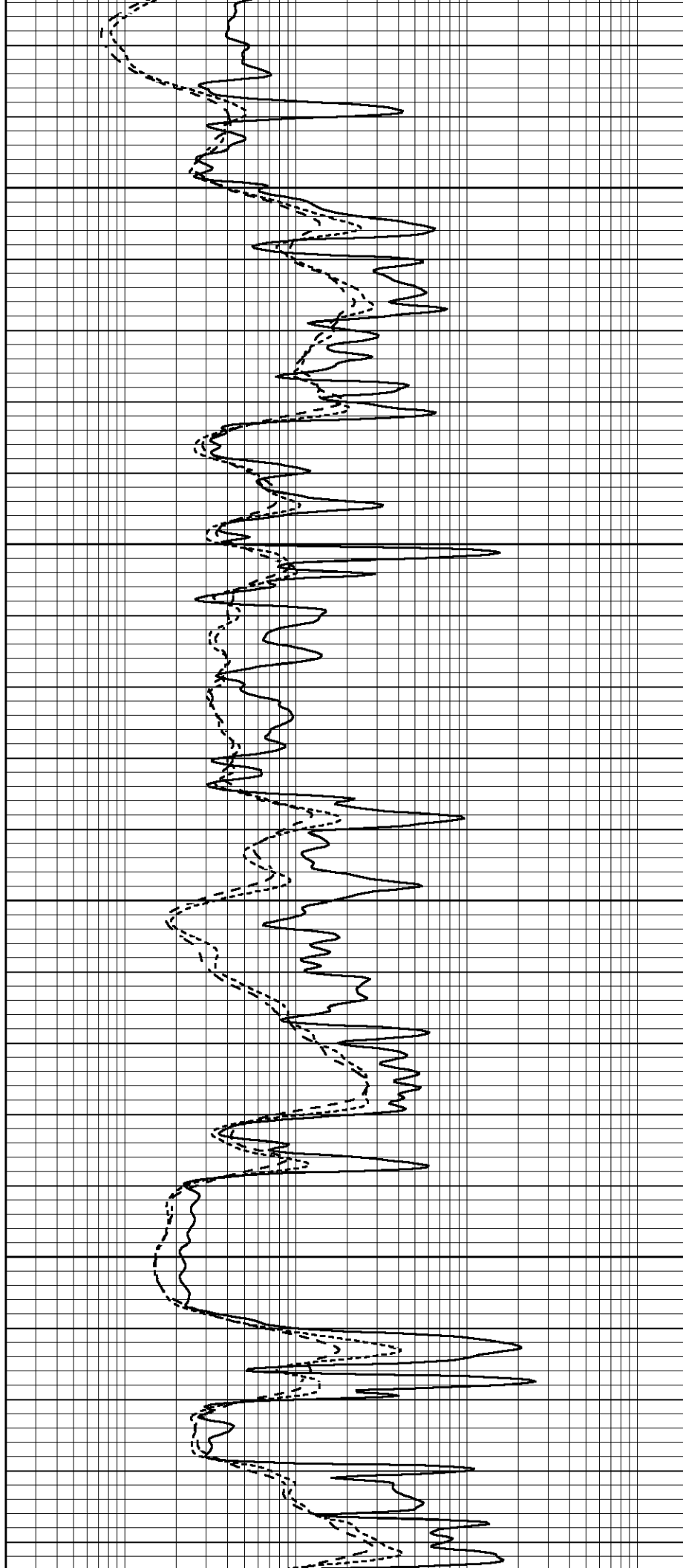


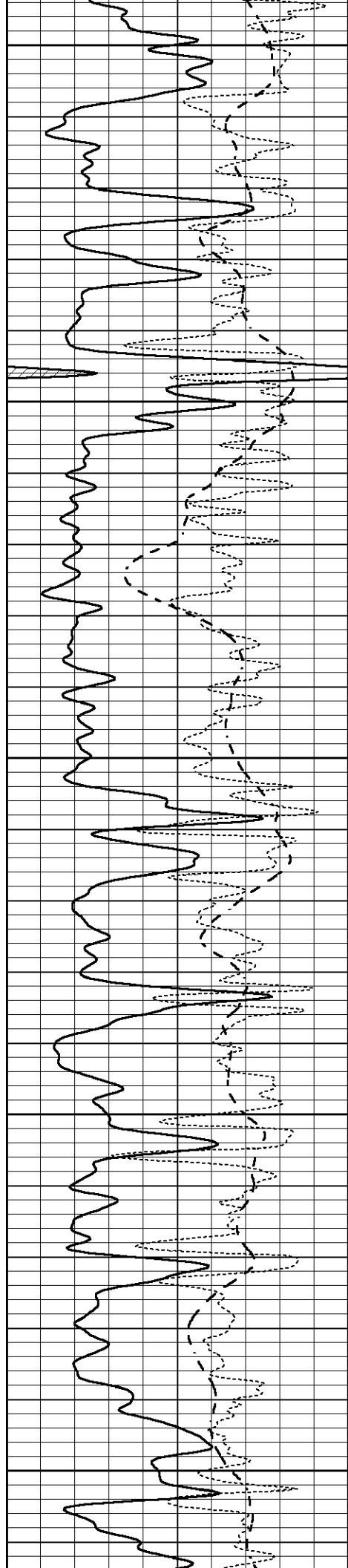
3150

3200

3250

3300





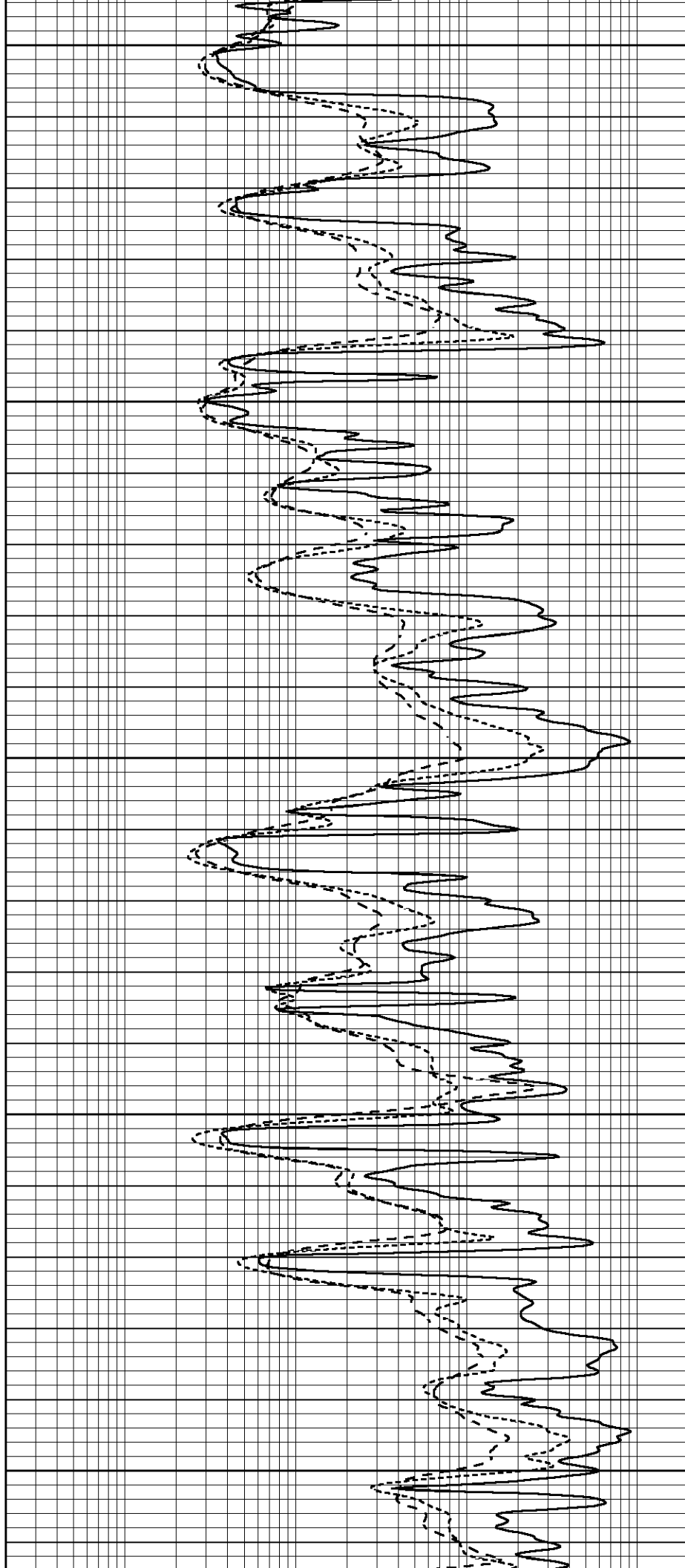
3350

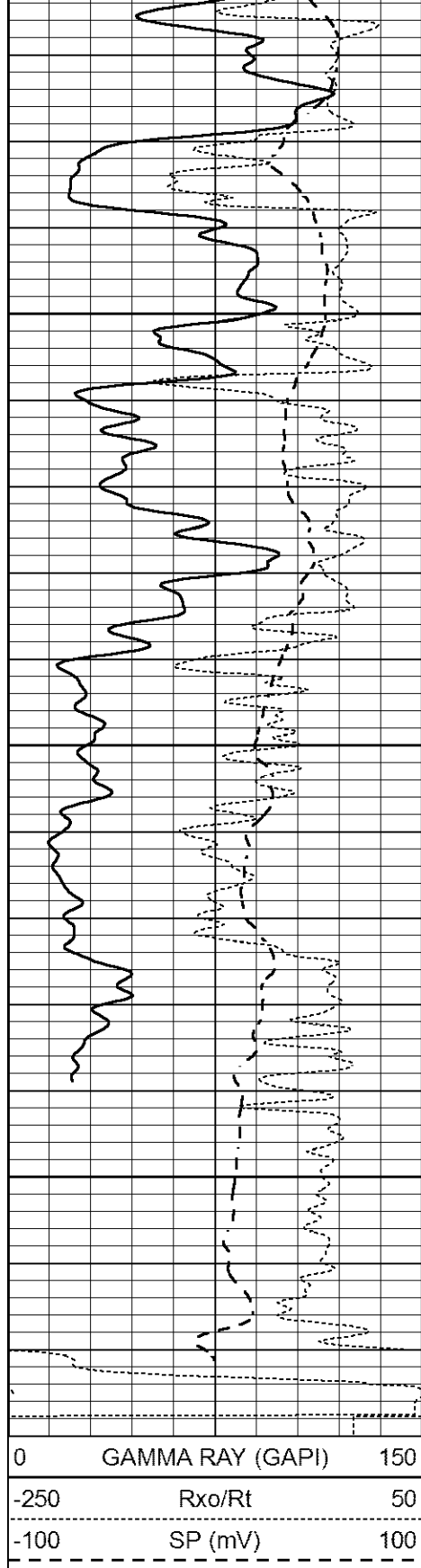
3400

3450

3500

3550

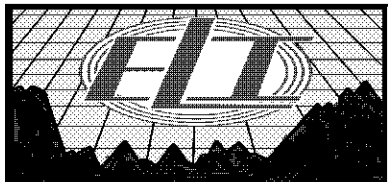
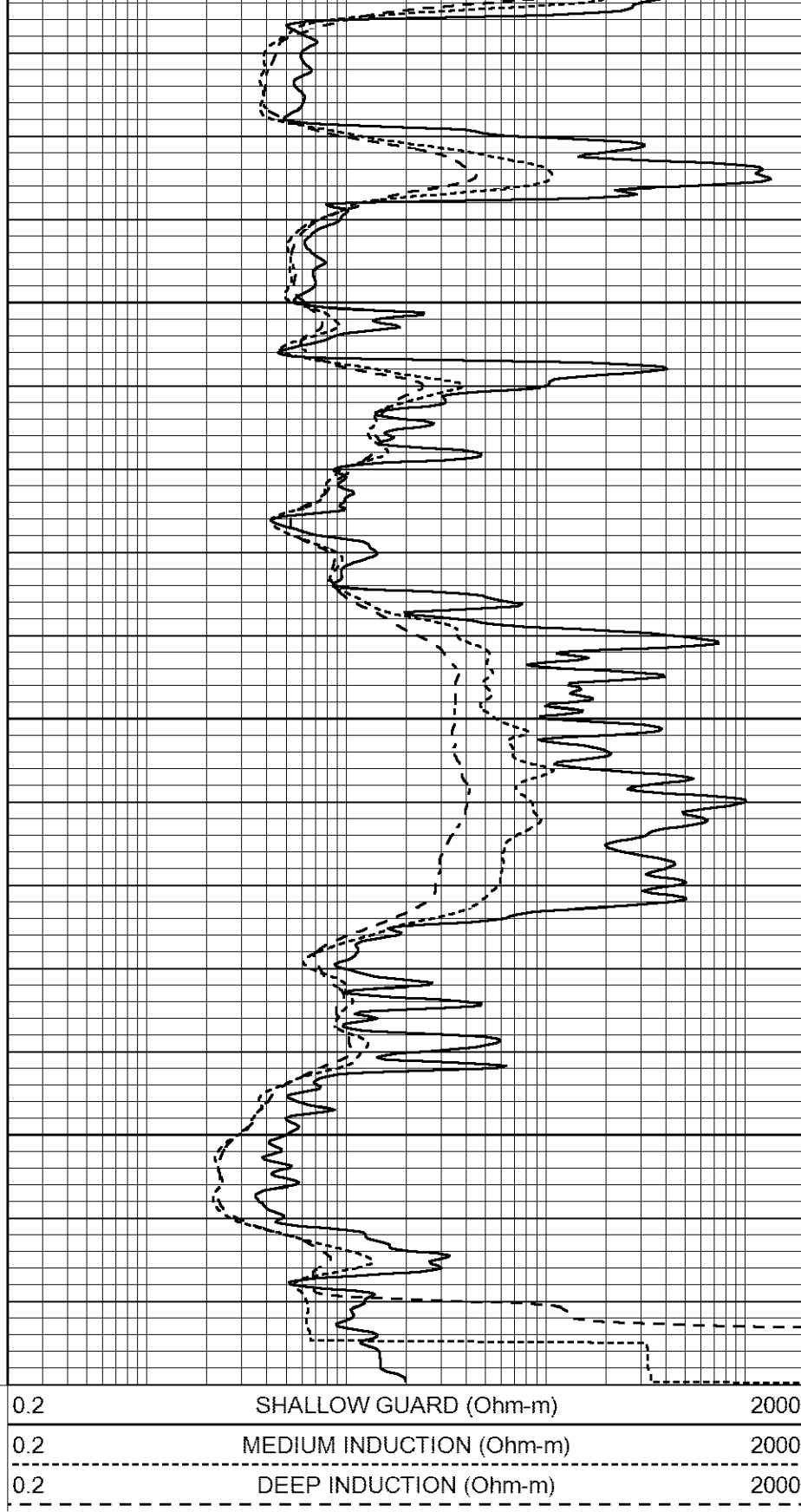




3600

3650

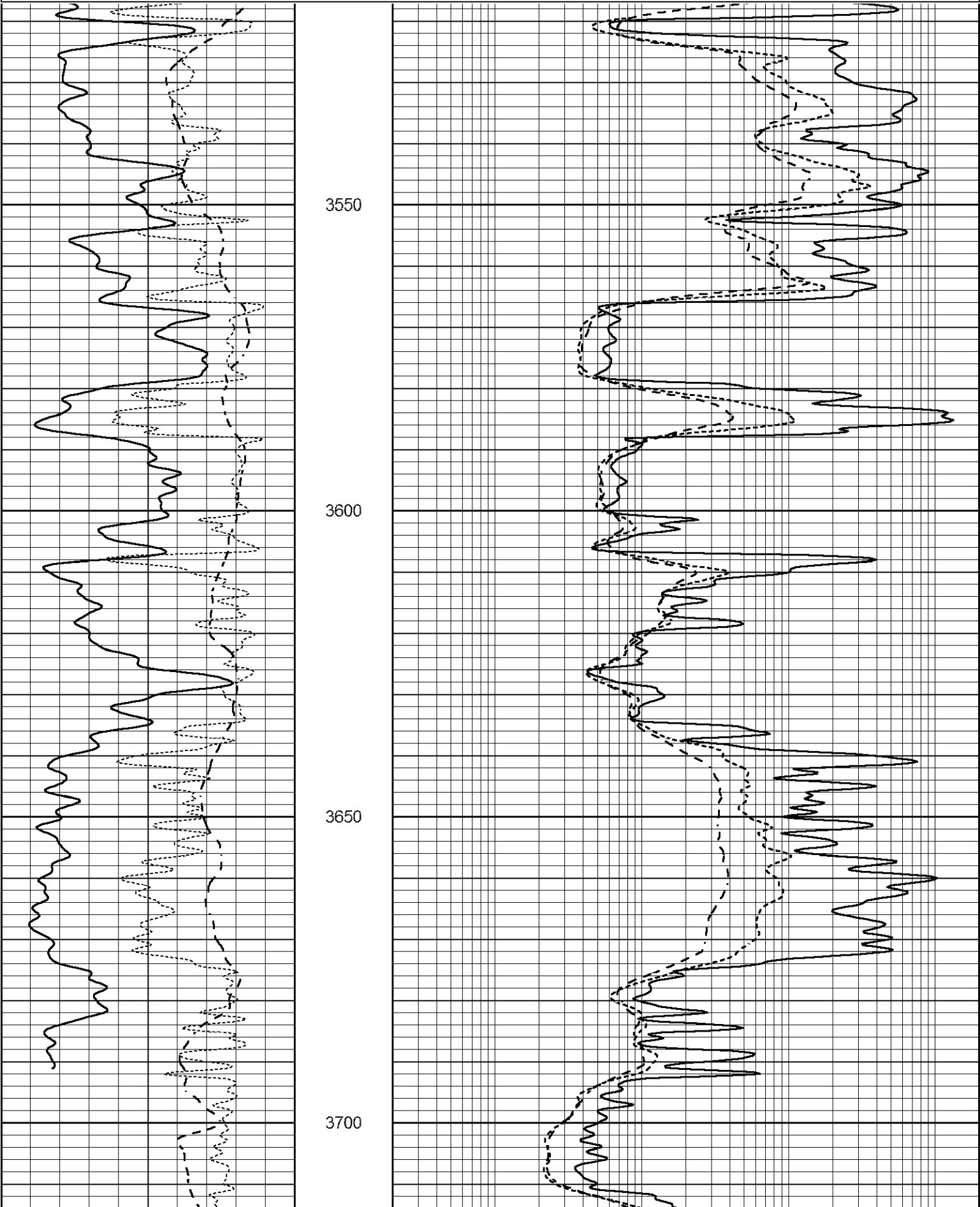
3700

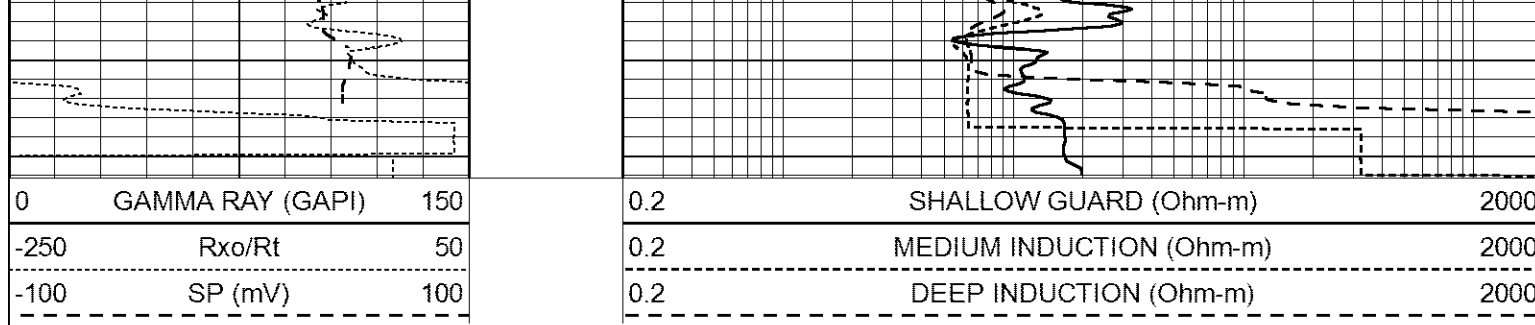


REPEAT SECTION

Database File 2508ddn.db
 Dataset Pathname pass4.1
 Presentation Format _dil
 Dataset Creation Mon Jun 19 19:22:24 2012

Dataset Creation			Mon Jun 16 16:55:24 2016		
Charted by			Depth in Feet scaled 1:240		
0	GAMMA RAY (GAPI)	150	0.2	SHALLOW GUARD (Ohm-m)	2000
-250	Rxo/Rt	50	0.2	MEDIUM INDUCTION (Ohm-m)	2000
-100	SP (mV)	100	0.2	DEEP INDUCTION (Ohm-m)	2000





Calibration Report		
Database File	2508ddn.db	
Dataset Pathname	pass4.1	
Dataset Creation	Mon Jun 18 18:33:24 2018	

Dual Induction Calibration Report

Serial-Model:	FW1410-56-Probe
Surface Cal Performed:	Tue Jul 25 12:15:33 2017
Downhole Cal Performed:	Tue Jul 25 12:15:37 2017
After Survey Verification Performed:	Tue Jul 25 12:15:38 2017

Surface Calibration			Readings			References			Results	
Loop:	Air	Loop		Air	Loop		m	b		
Deep	0.008	0.765	V	1.000	400.000	mmho/m	527.061	-3.201		
Medium	-0.056	0.761	V	1.000	464.000	mmho/m	567.187	32.510		
Internal:	Zero	Cal		Zero	Cal		m	b		
Deep	0.005	0.624	V	0.000	400.000	mmho/m	645.611	-3.034		
Medium	0.012	0.721	V	0.000	464.000	mmho/m	653.591	-7.532		

Downhole Calibration			Readings			References			Results	
	Zero	Cal		Zero	Cal		m'	b'		
Deep	-0.647	301.329	mmho/m	-0.780	336.378	mmho/m	1.117	-0.058		
Medium	38.256	411.013	mmho/m	39.046	441.706	mmho/m	1.080	-2.280		
LL3		7.471	V		2500.000	Ohm-m				
		0.001	V		20.000	Ohm-m				
		-7.085	V		5000.000	mmho-m				

After Survey Verification			Readings			Targets			Results	
	Zero	Cal		Zero	Cal		m'	b'		
Deep	0.000	0.000	mmho/m	-0.647	301.329	mmho/m	1.000	0.000		
Medium	0.000	0.000	mmho/m	38.256	411.013	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				

Compensated Neutron Calibration Report

Serial Number:	080620PMC
Tool Model:	NABORS

PRE-SURVEY VERIFICATION			
Detector	Readings	Measured	Target

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	