

DUAL INDUCTION LOG

Company	RJM COMPANY	Company	RJM COMPANY
Well	DOCTOR GERALD #1	Well	DOCTOR GERALD #1
Field	UNKNOWN	Field	UNKNOWN
County	BARTON	County	BARTON
State	KANSAS	State	KANSAS
Location:	API # : 15-009-26188-00-00	Other Services	CDL/CNL/MEL SONIC
	576 FNL & 745' FEL		
	SEC 25 TWP 17S RGE 12W		
Permanent Datum	GROUND LEVEL	Elevation	1854'
Log Measured From	KELLY BUSHING 8' A.G.L.	K.B. 1862'	
Drilling Measured From	KELLY BUSHING	D.F. 1860	
		G.L. 1854	
Date	10/25/17		
Run Number	ONE		
Depth Driller	3440		
Depth Logger	3438		
Bottom Logged Interval	3436		
Top Log Interval	00		
Casing Driller	8 5/8" @ 333		
Casing Logger	333		
Bit Size	7 7/8"		
Type Fluid in Hole	CHEMICAL MUD		
Density / Viscosity	9.0/60		
pH / Fluid Loss	10.0/7.2		
Source of Sample	FLOWLINE		
Rm @ Meas. Temp	1.6@66		
Rmt @ Meas. Temp	1.2@66		
Rmc @ Meas. Temp	1.92@66		
Source of Rmt / Rmc	MEASURED		
Rm @ BHT	.95@111		
Time Circulation Stopped	2 HOURS		
Time Logger on Bottom	///		
Maximum Recorded Temperature	111F		
Equipment Number	4010		
Location	HAYS, KANSAS		
Recorded By	GUS PFANENSTIEL		
Witnessed By	WYATT URBAN		

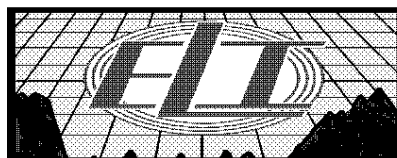
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All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on 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, HAYS, KS. (785) 628-6395

DIRECTIONS
ODIN SOUTH 1 MILE, EAST 1 MILE,
SOUTH INTO.



MAIN PASS

Database File: 2104ddn.db
Dataset Pathname: pass3.1
Presentation Format: _dil2
Dataset Creation: Wed Oct 25 22:25:23 2017 by Calc Open-Cased 090629
Charted by: Depth in Feet scaled 1:600

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

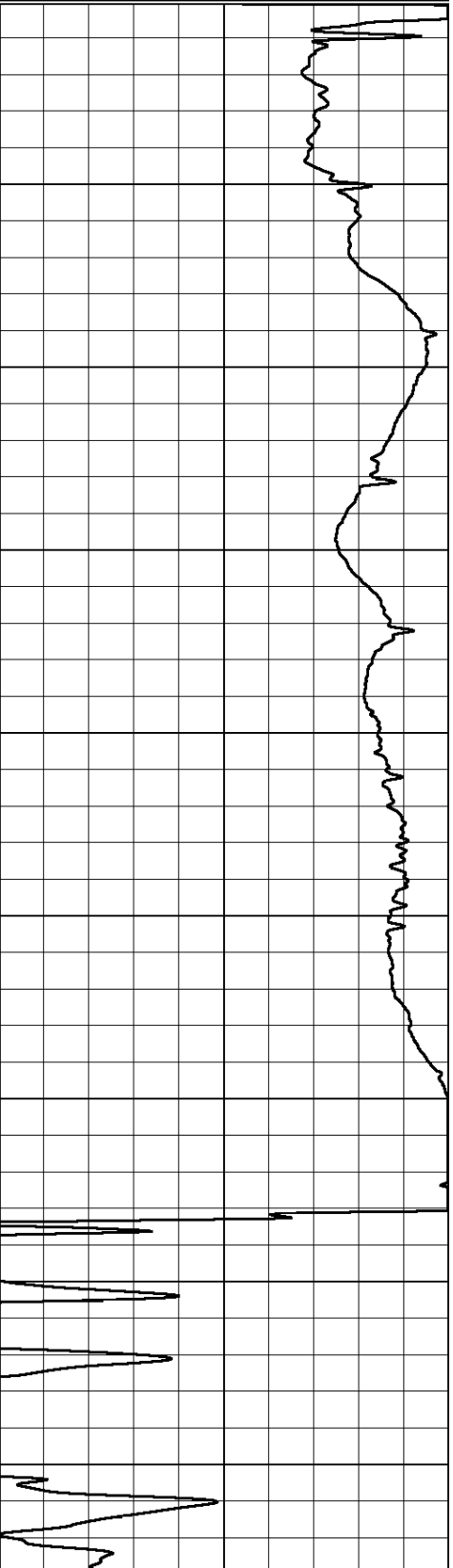
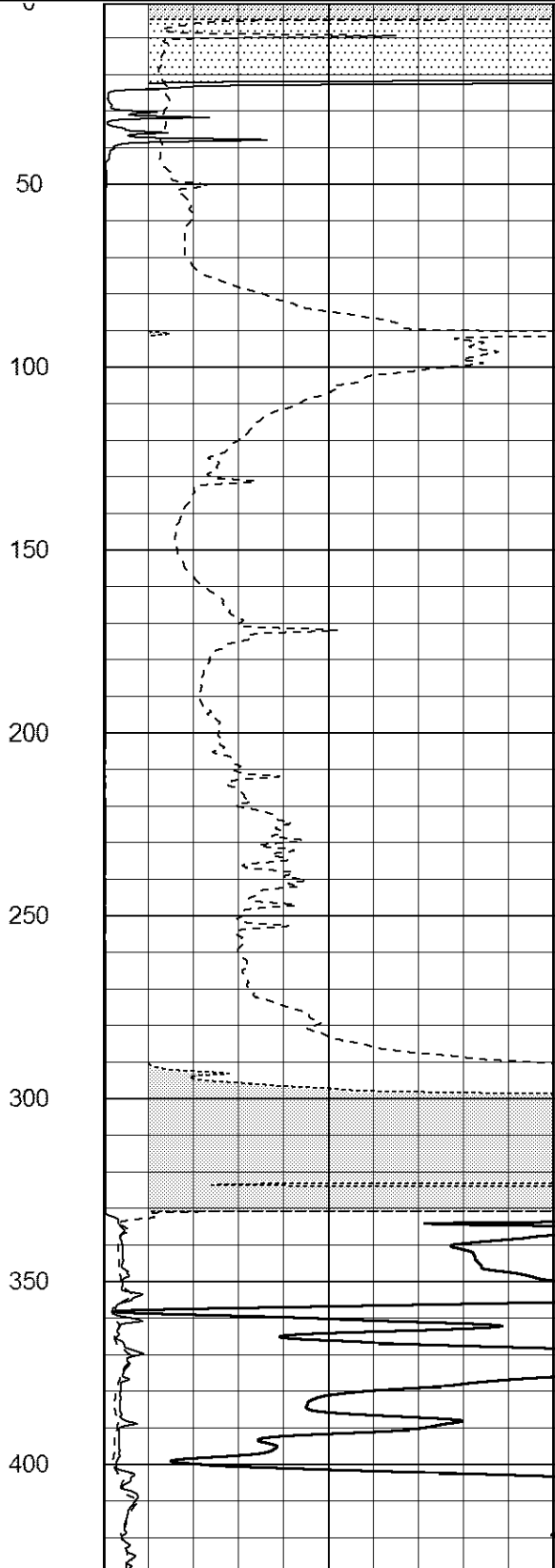
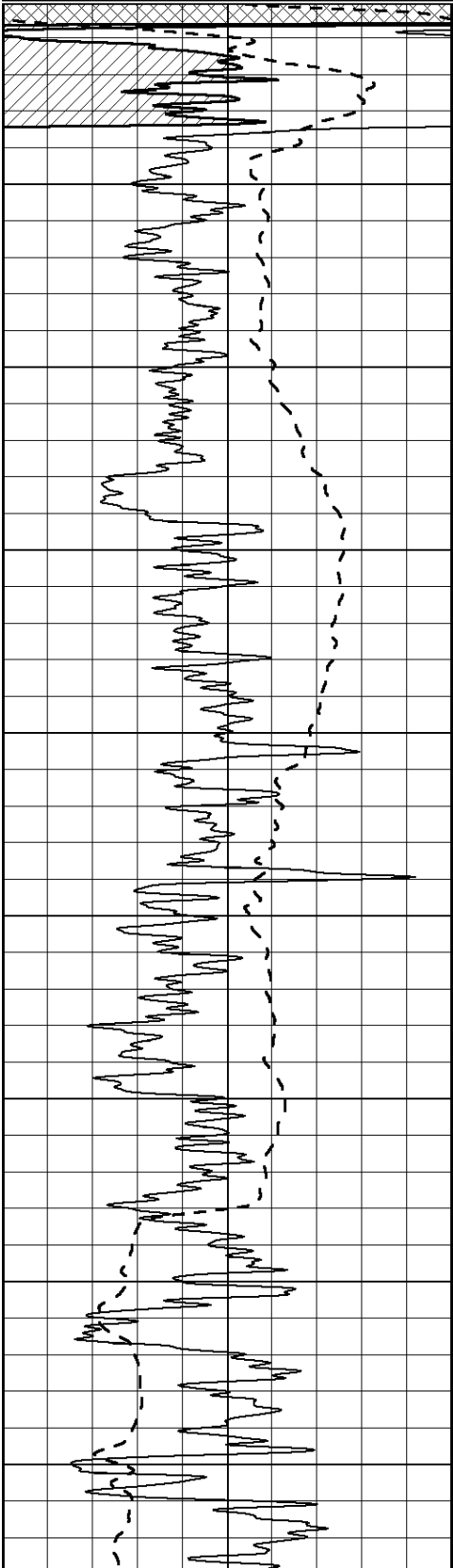
0 RLL3 (Ohm-m) 50

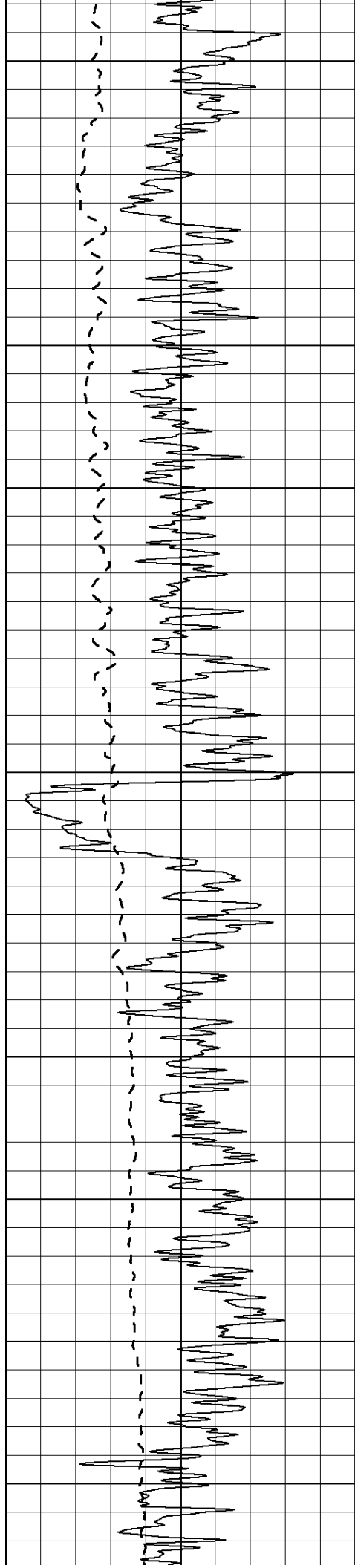
0 RILD (Ohm-m) 50

1000 CILD (mmho/m) 0

50 RILD X10 (Ohm-m) 500

50 RLL3 X10 (Ohm-m) 500





450

500

550

600

650

700

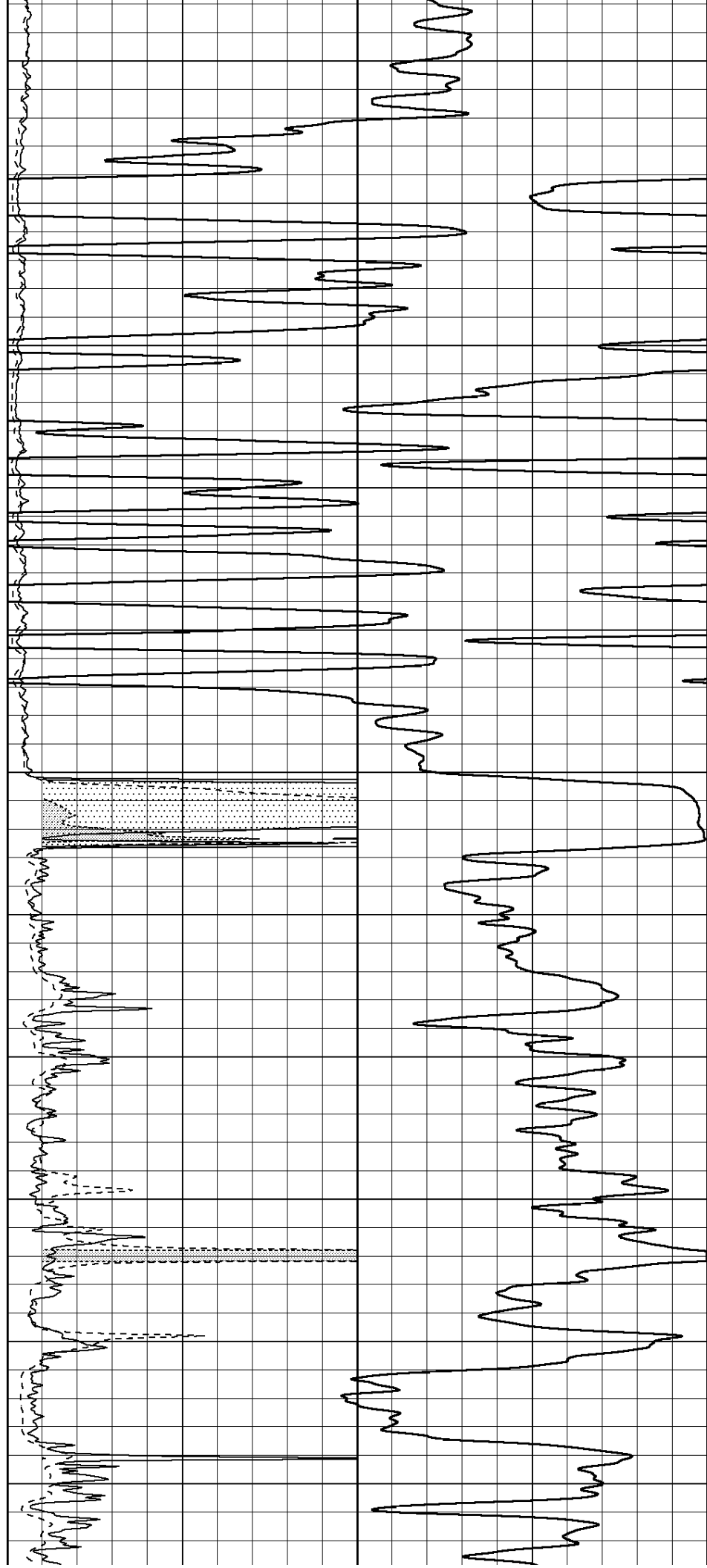
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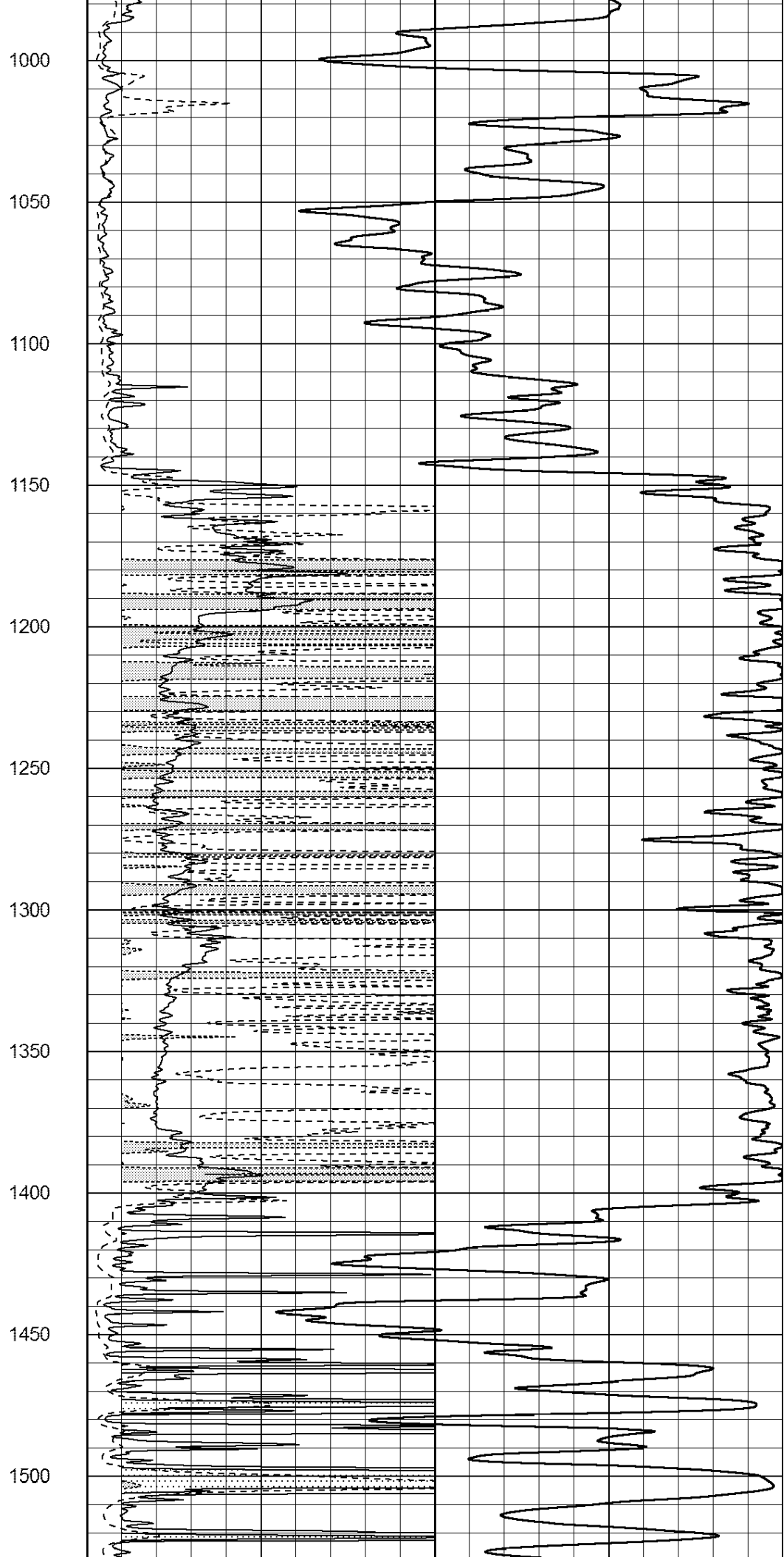
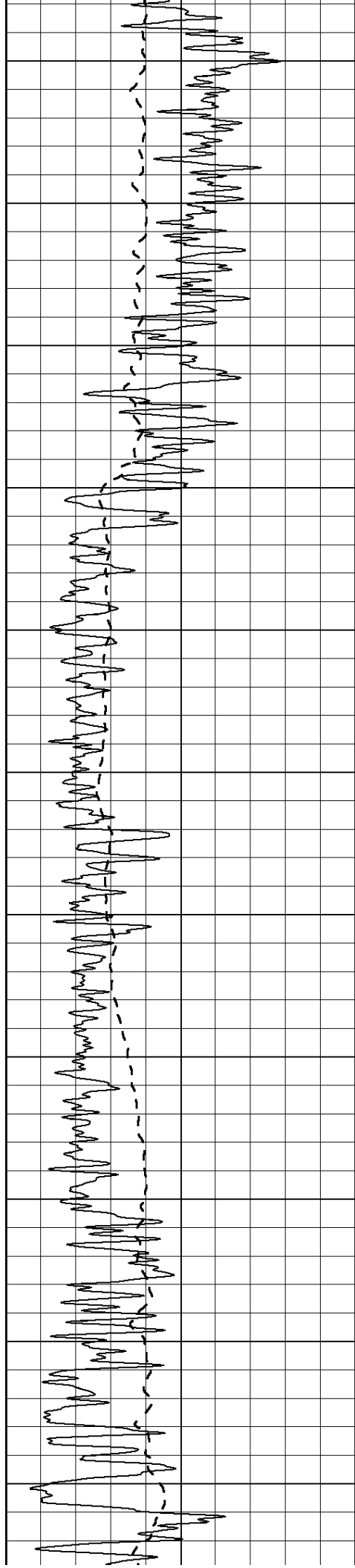
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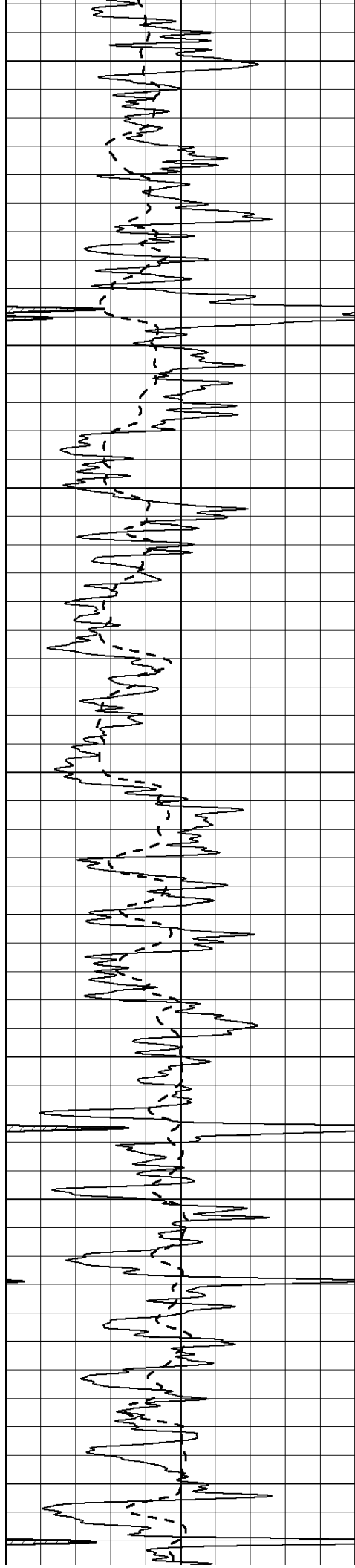
850

900

950







1550

1600

1650

1700

1750

1800

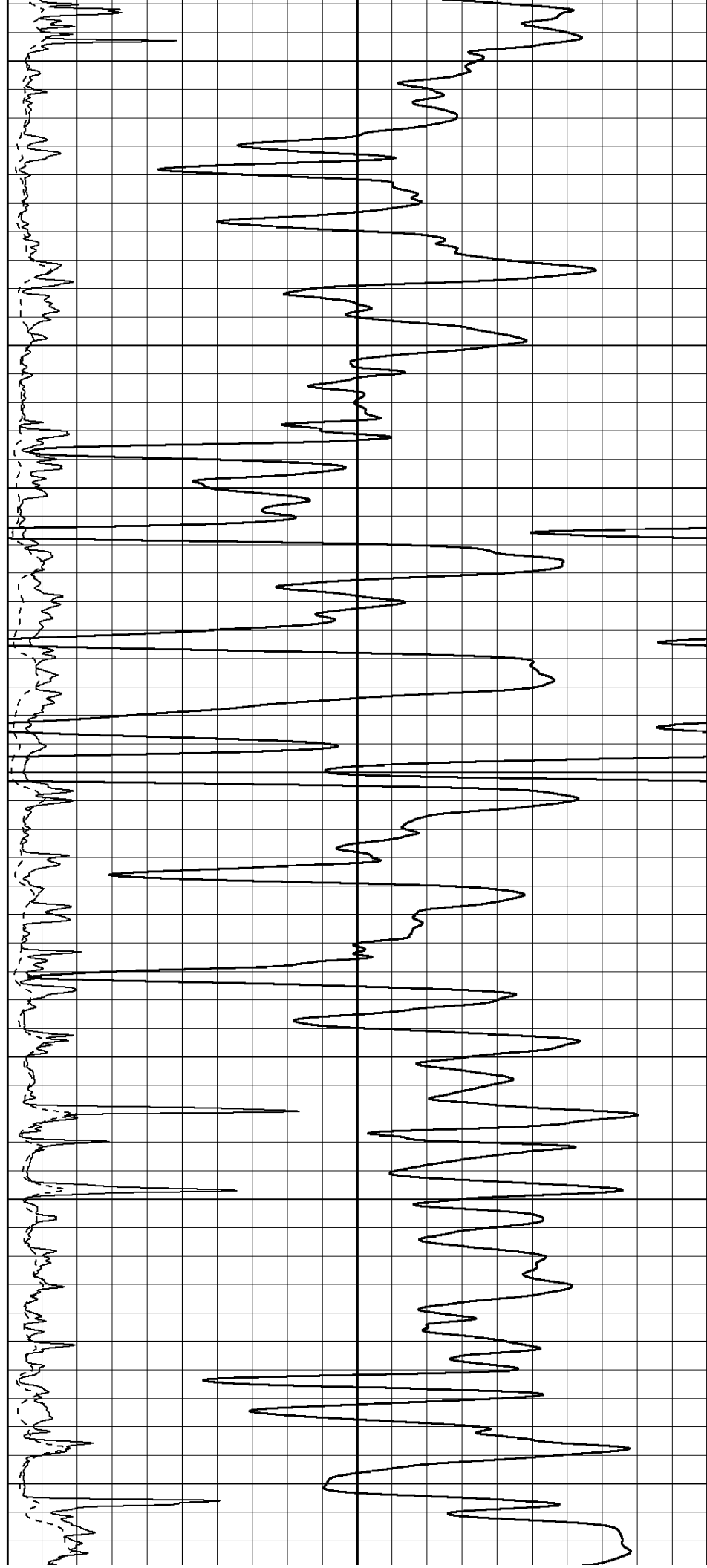
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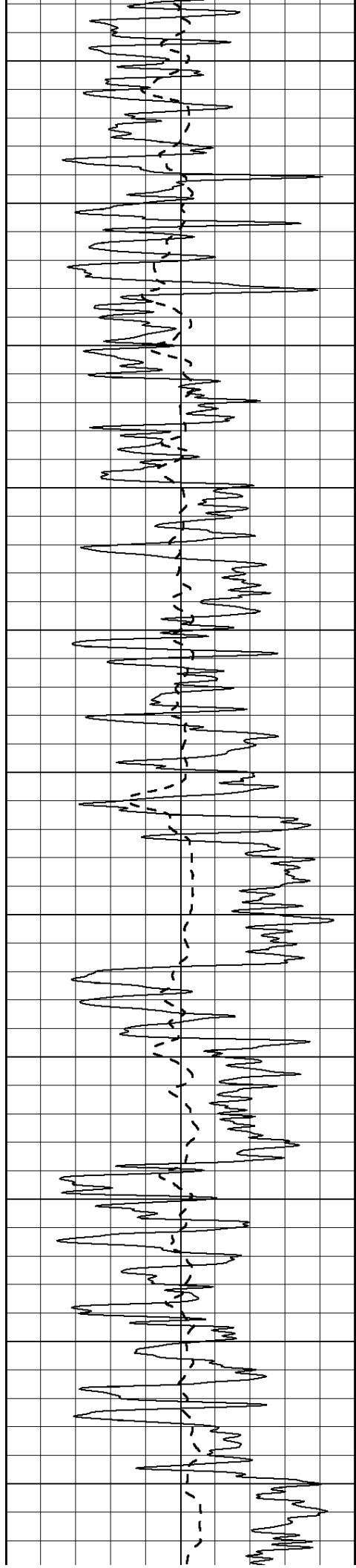
1900

1950

2000

2050





2100

2150

2200

2250

2300

2350

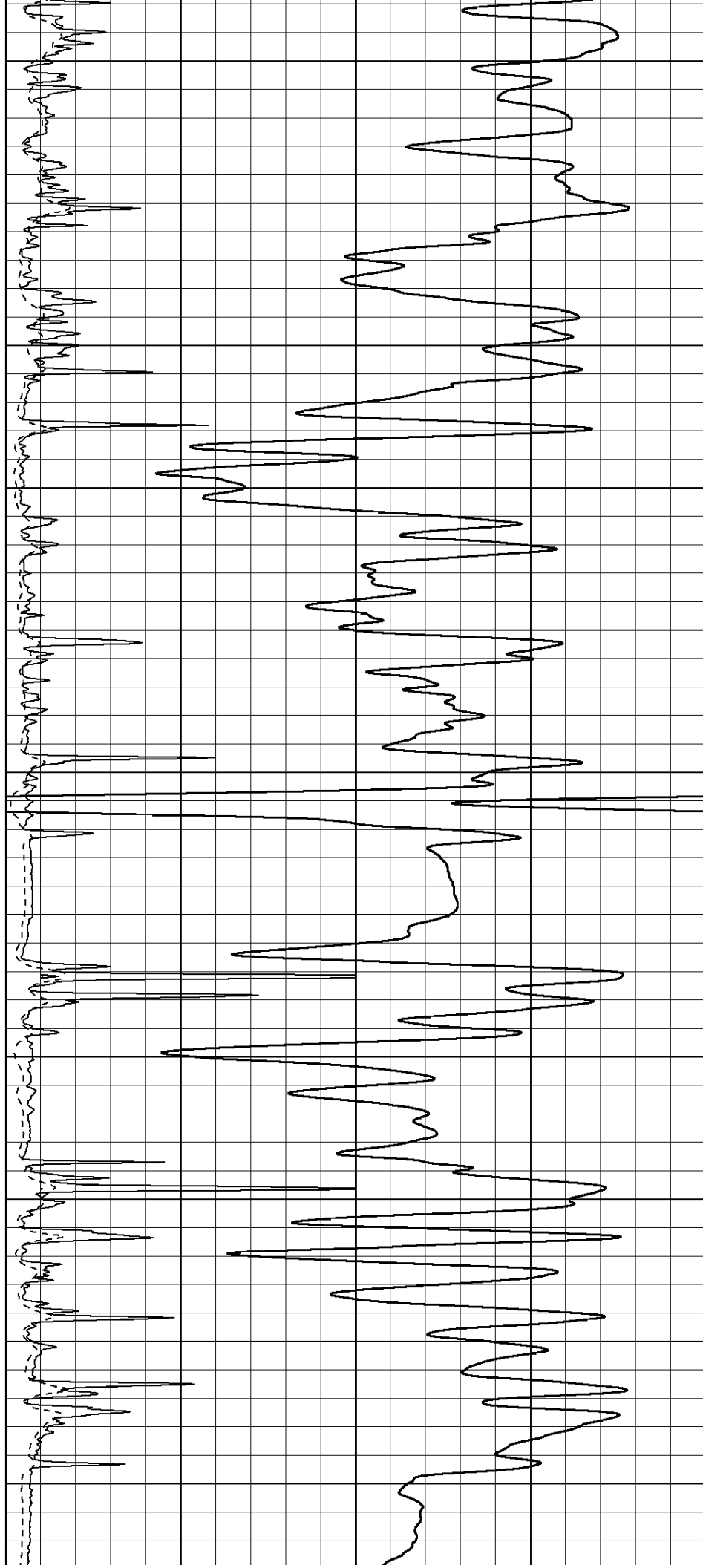
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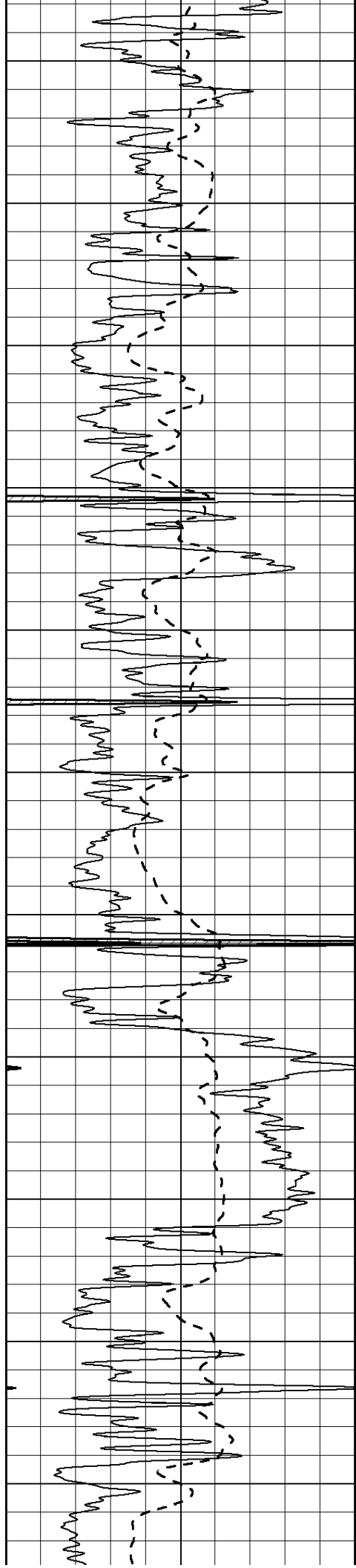
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2500

2550

2600





2650

2700

2750

2800

2850

2900

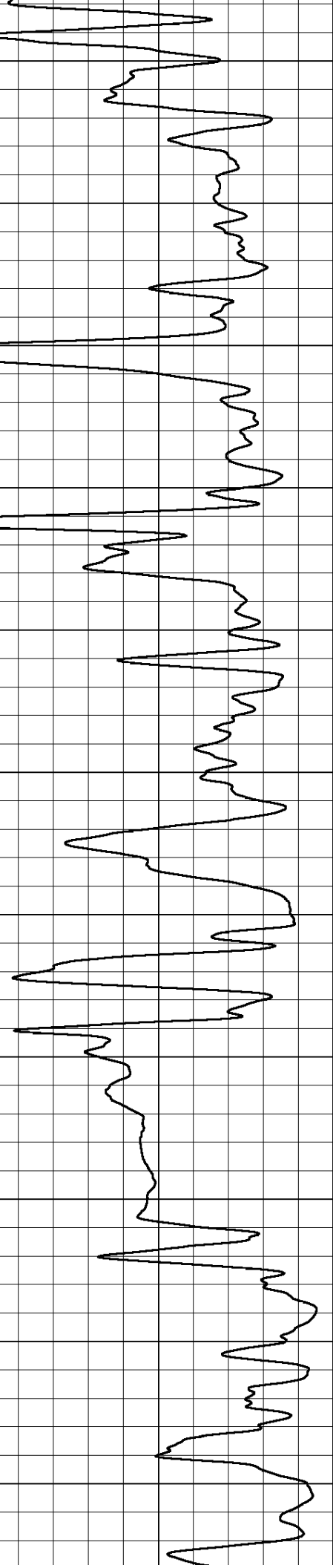
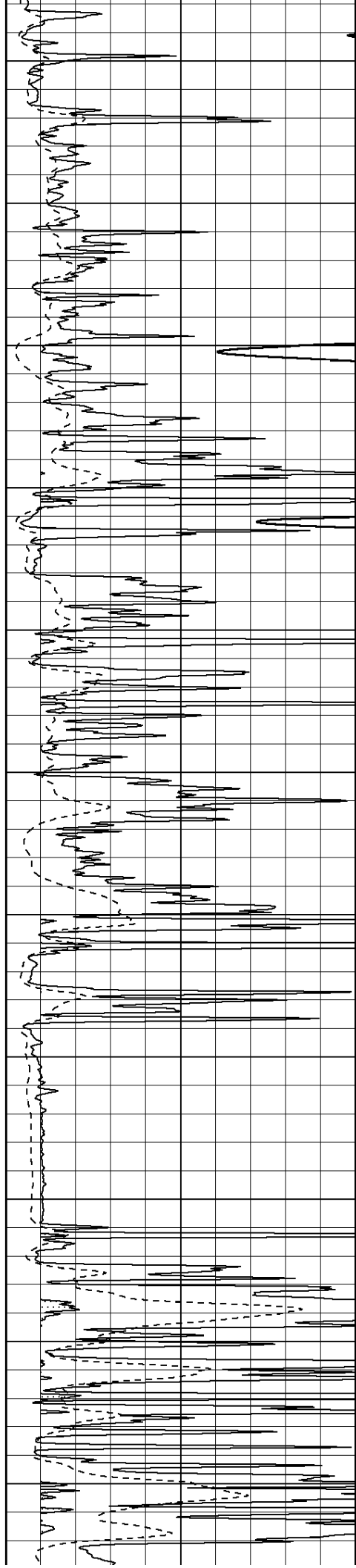
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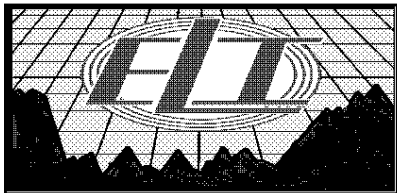
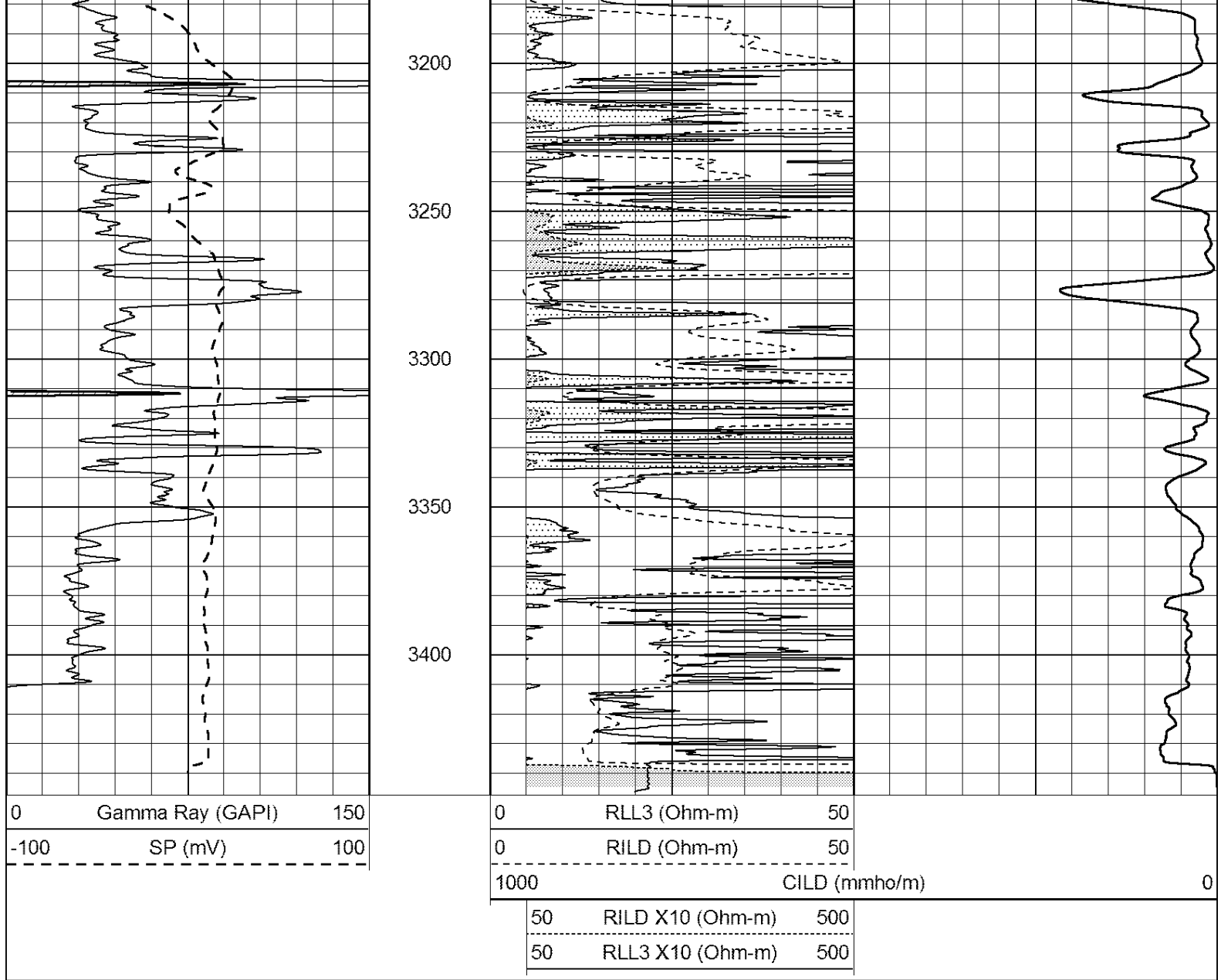
3000

3050

3100

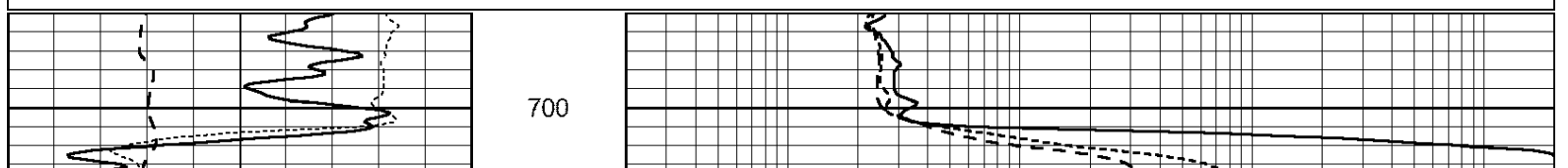
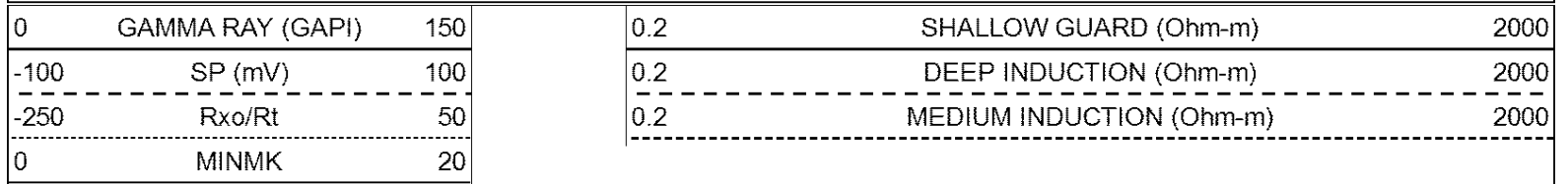
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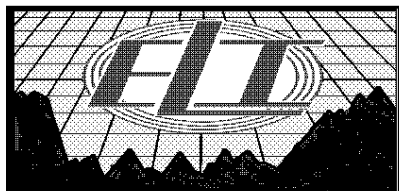
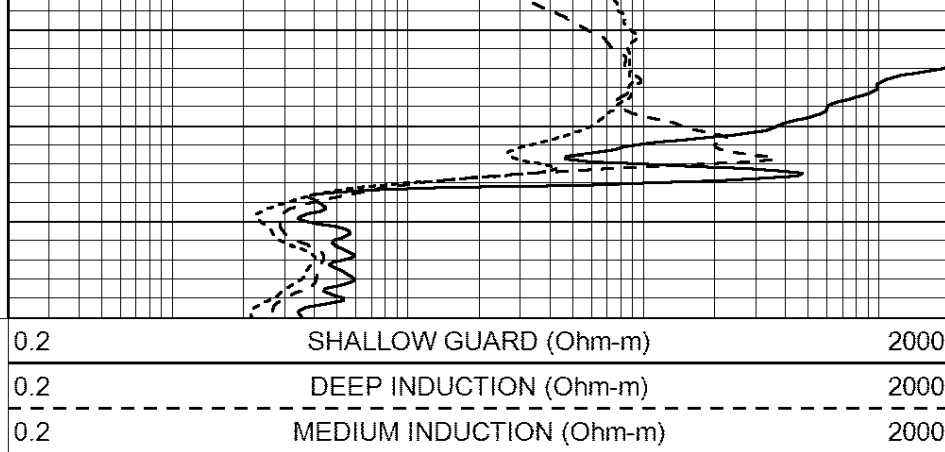
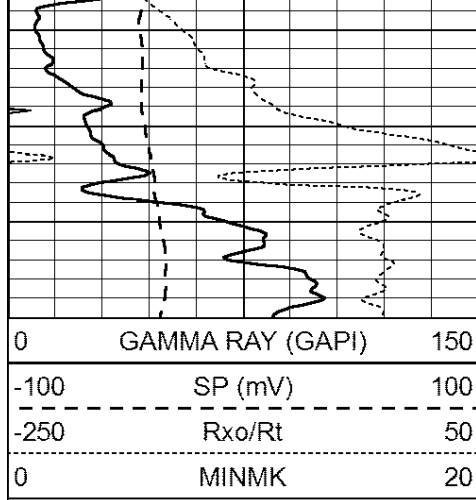




MAIN PASS

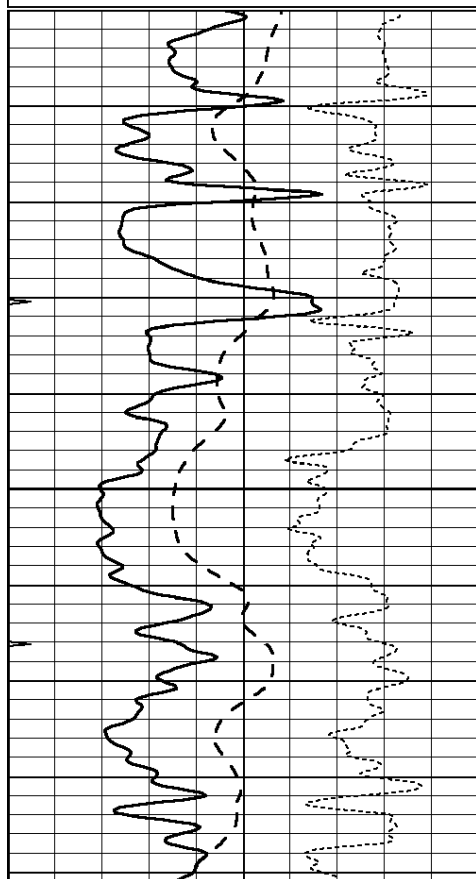
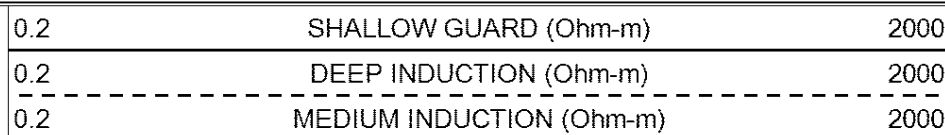
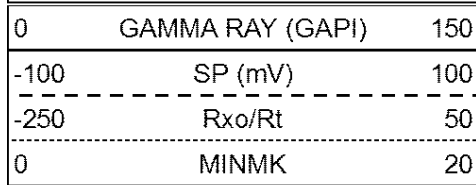
Database File: 2104ddn.db
 Dataset Pathname: pass3.1
 Presentation Format: _dil
 Dataset Creation: Wed Oct 25 22:25:23 2017 by Calc Open-Cased 090629
 Charted by: Depth in Feet scaled 1:240





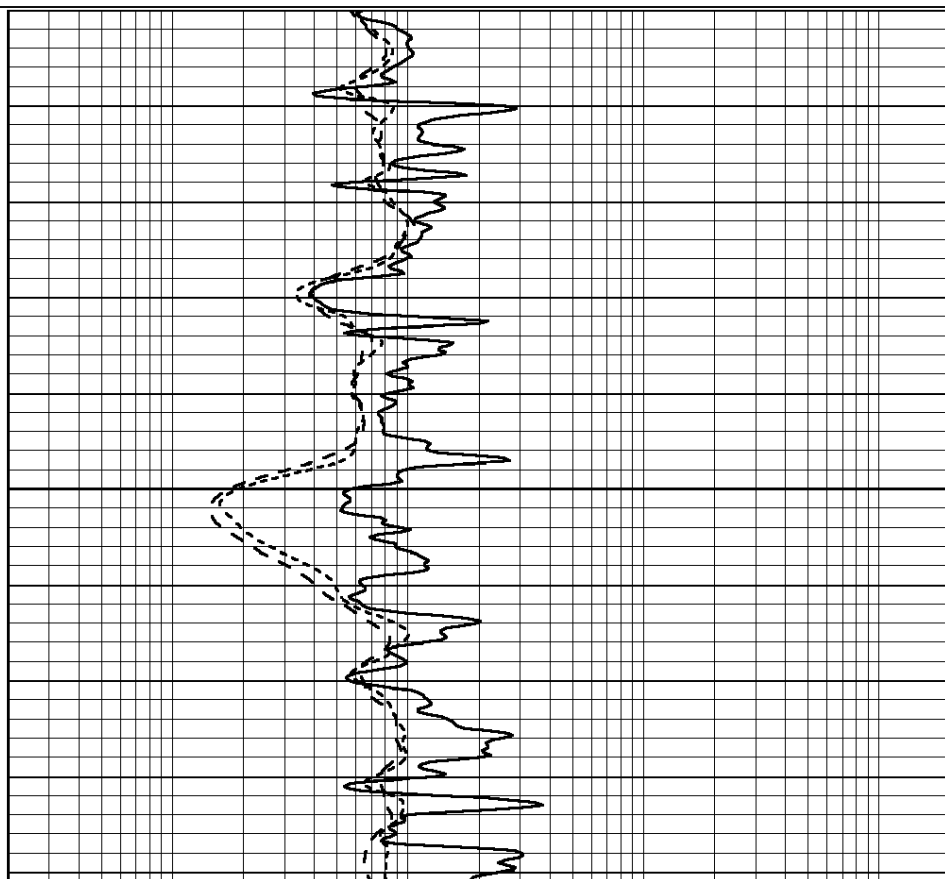
MAIN PASS

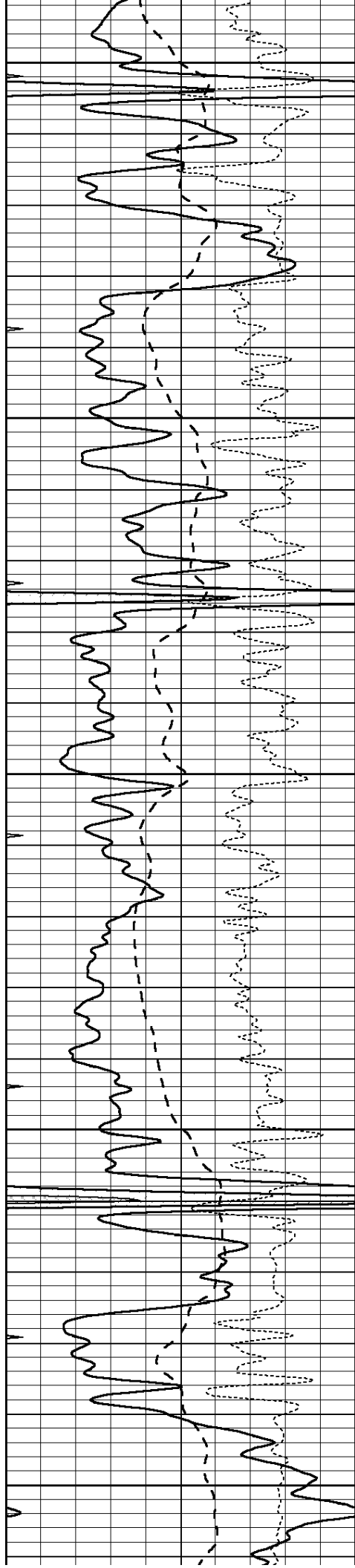
Database File: 2104ddn.db
 Dataset Pathname: pass3.1
 Presentation Format: _dil
 Dataset Creation: Wed Oct 25 22:25:23 2017 by Calc Open-Cased 090629
 Charted by: Depth in Feet scaled 1:240



2700

2750





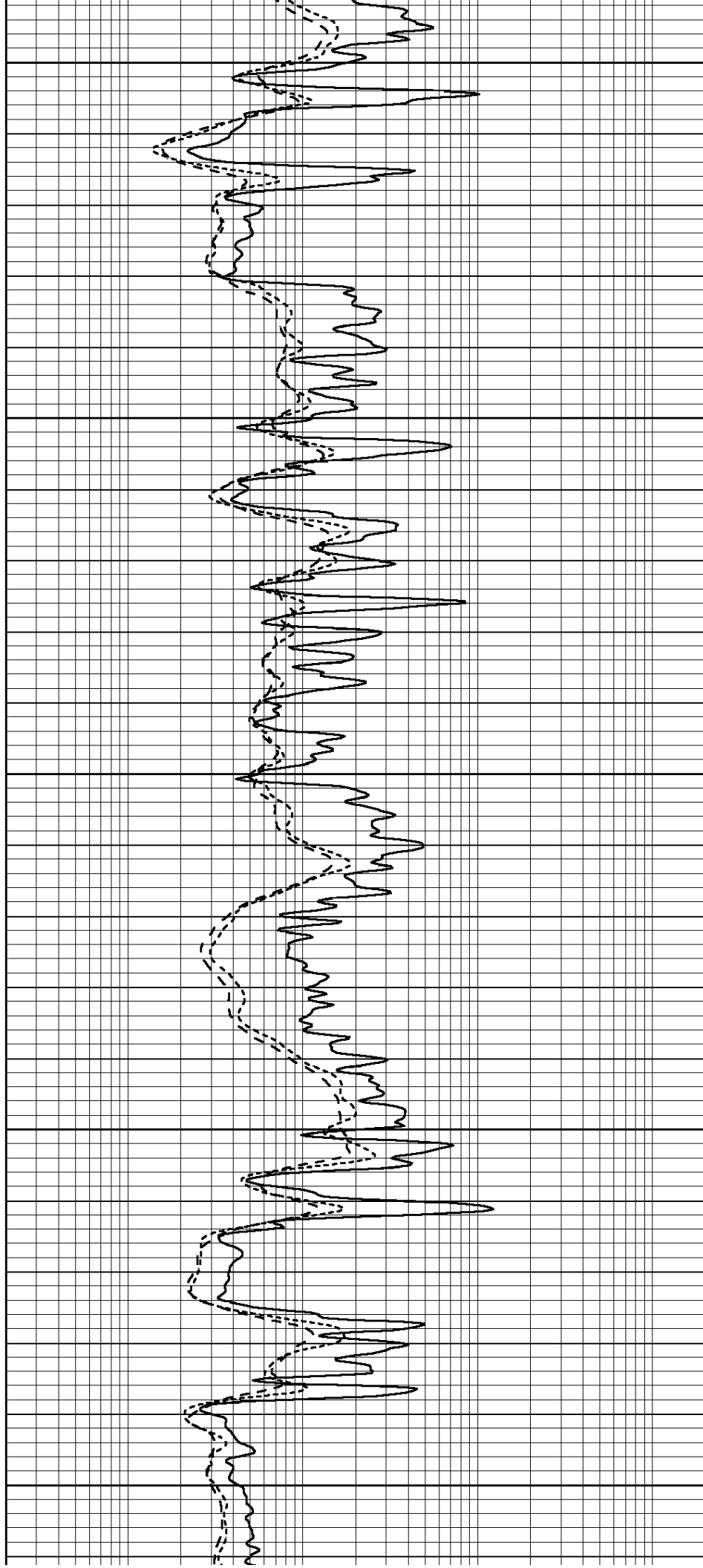
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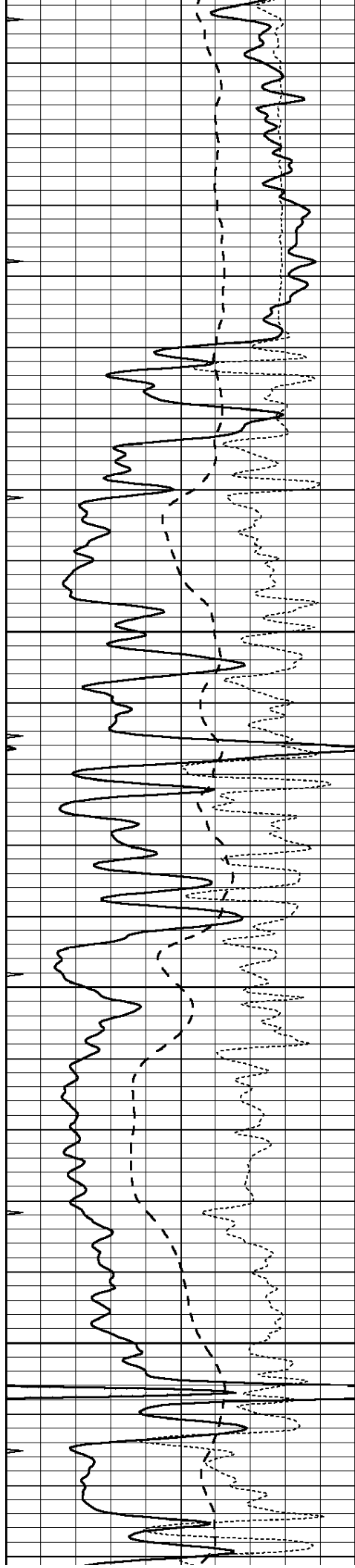
2850

2900

2950

3000



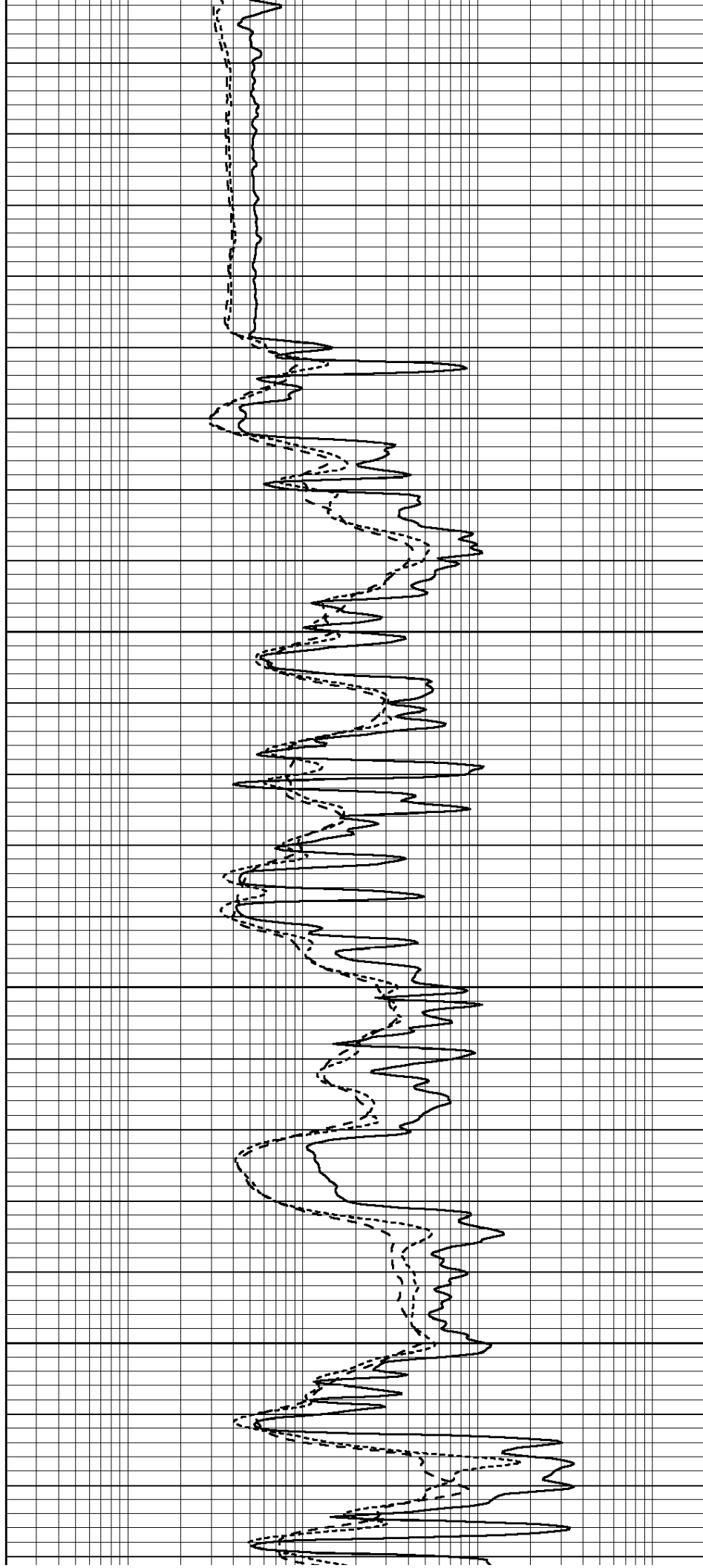


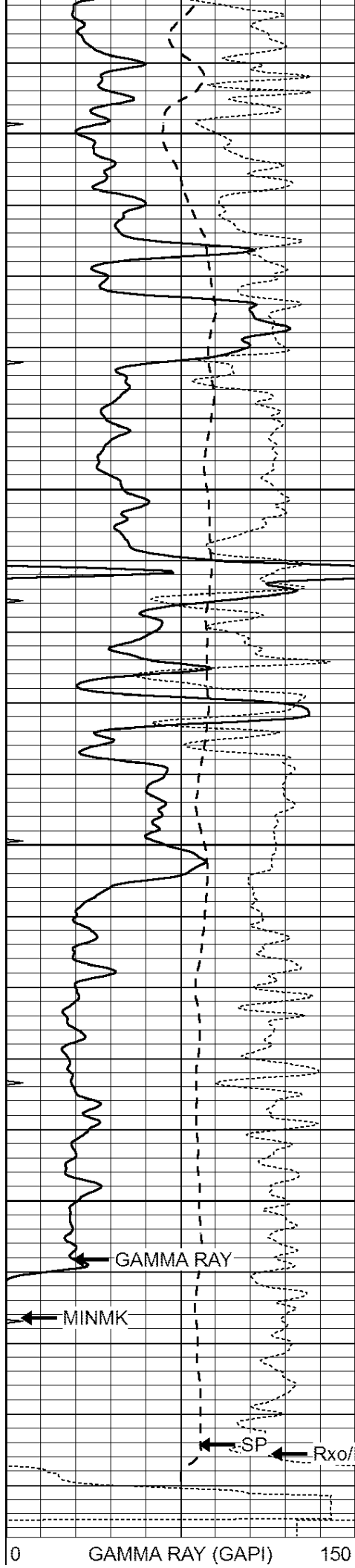
3050

3100

3150

3200





3250

3300

3350

3400

GAMMA RAY

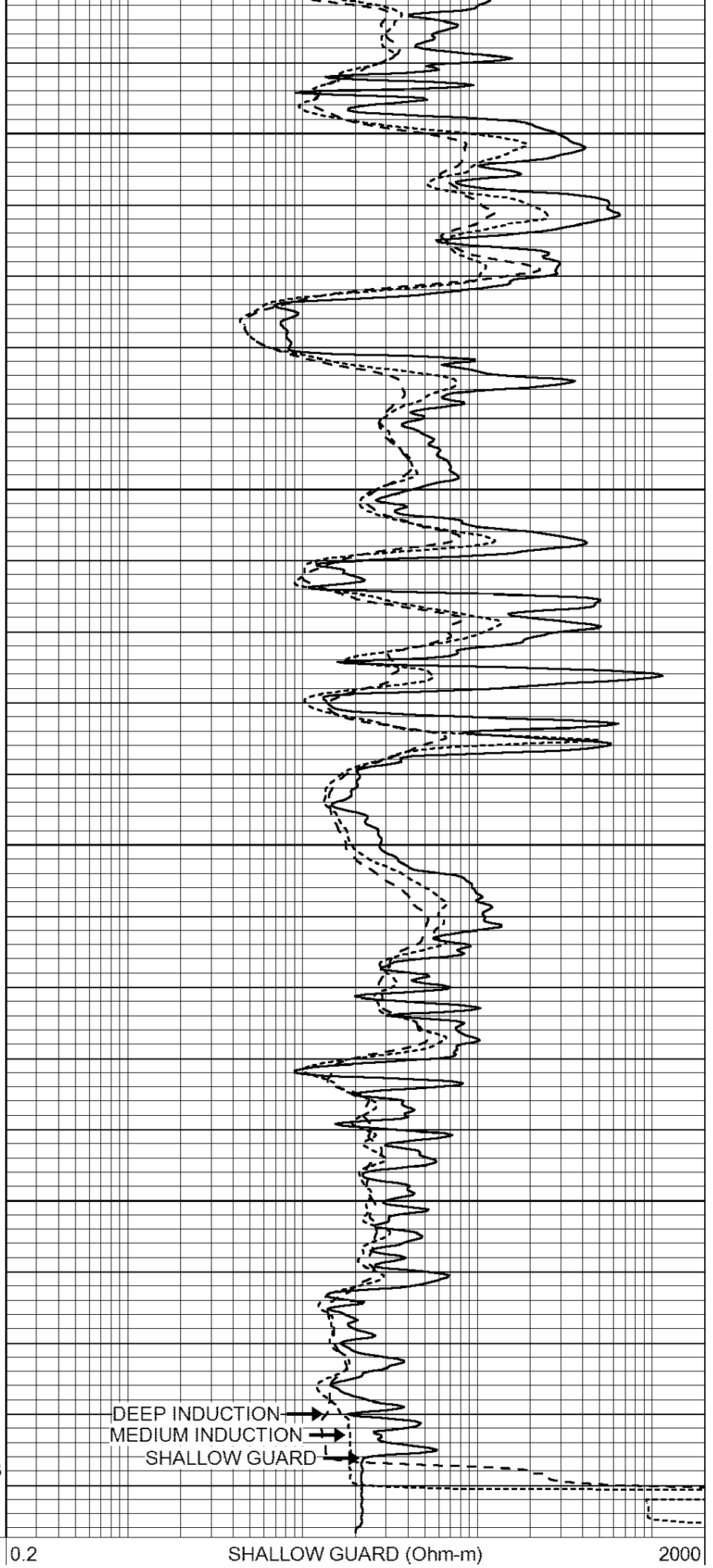
MINMK

SP

Rxo/Rt

LTD 3438

0 GAMMA RAY (GAPI) 150



DEEP INDUCTION

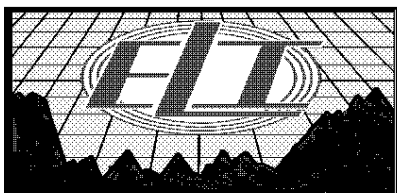
MEDIUM INDUCTION

SHALLOW GUARD

0.2 SHALLOW GUARD (Ohm-m) 2000

-100	SP (mV)	100
-250	Rxo/Rt	50
0	MINMK	20

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

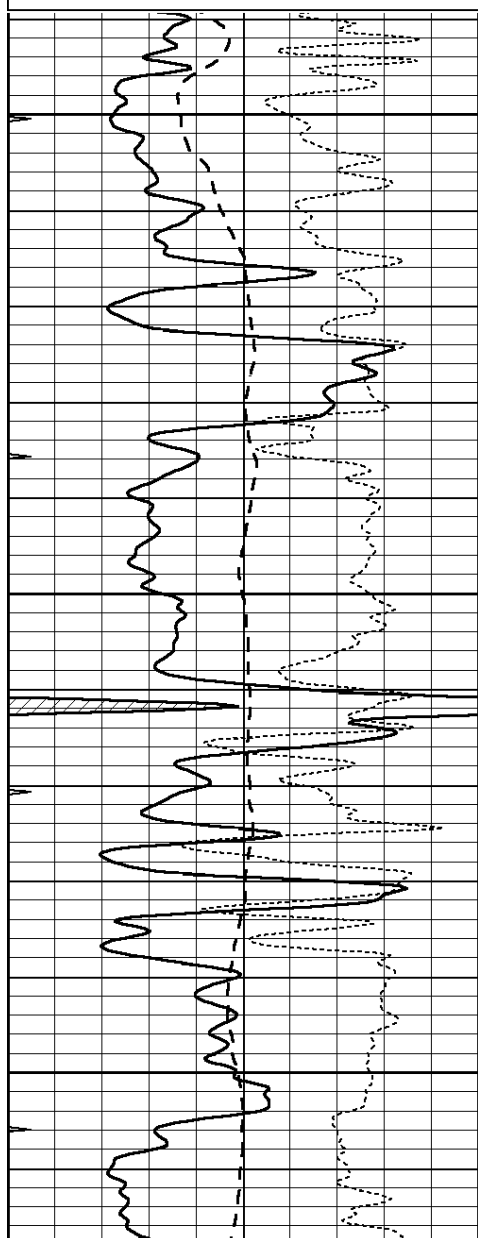


REPEAT SECTION

Database File: 2104ddn.db
 Dataset Pathname: pass2.1
 Presentation Format: _dil
 Dataset Creation: Wed Oct 25 22:00:42 2017 by Calc Open-Cased 090629
 Charted by: Depth in Feet scaled 1:240

0	GAMMA RAY (GAPI)	150
-100	SP (mV)	100
-250	Rxo/Rt	50
0	MINMK	20

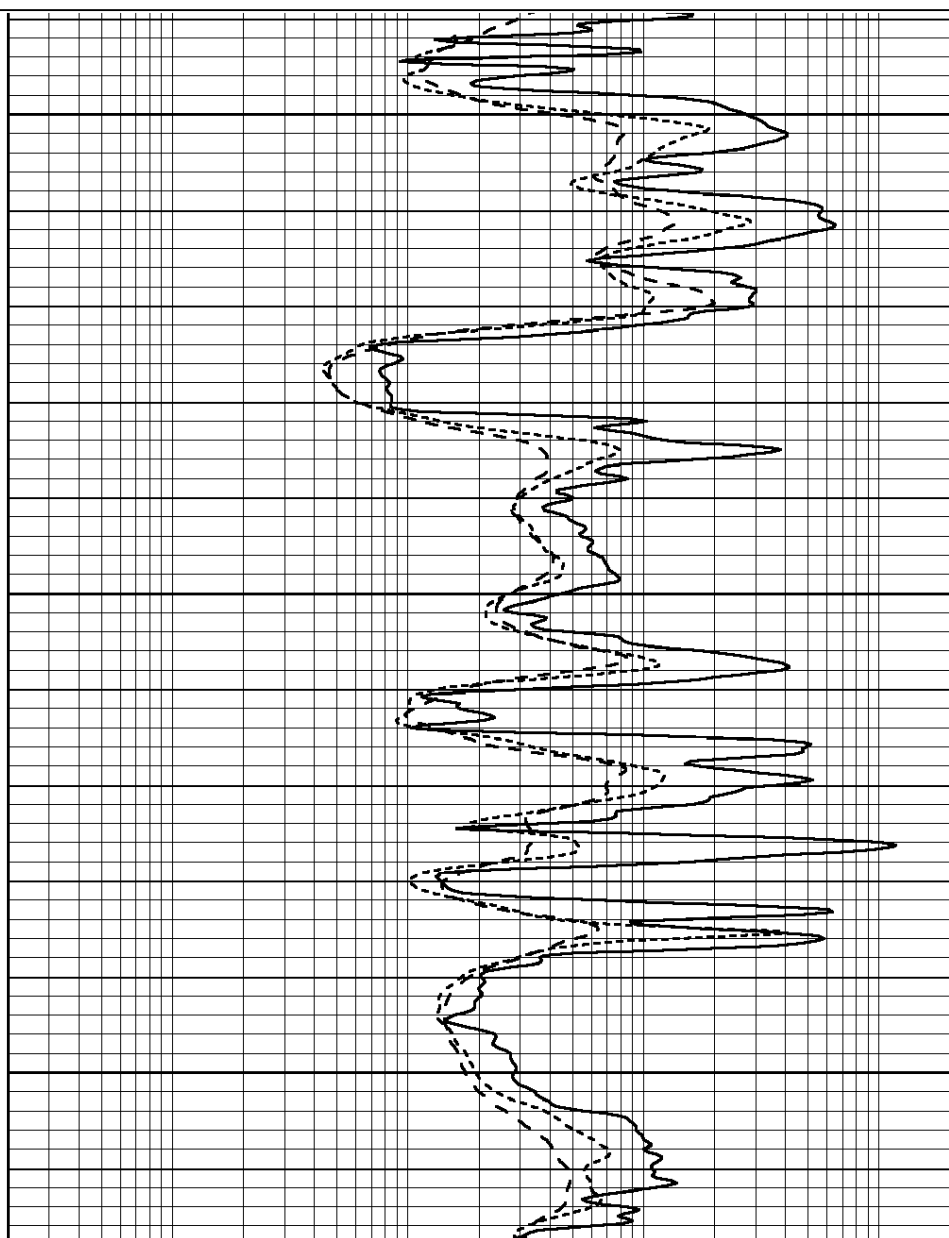
0.2	SHALLOW GUARD (Ohm-m)	2000
0.2	DEEP INDUCTION (Ohm-m)	2000
0.2	MEDIUM INDUCTION (Ohm-m)	2000

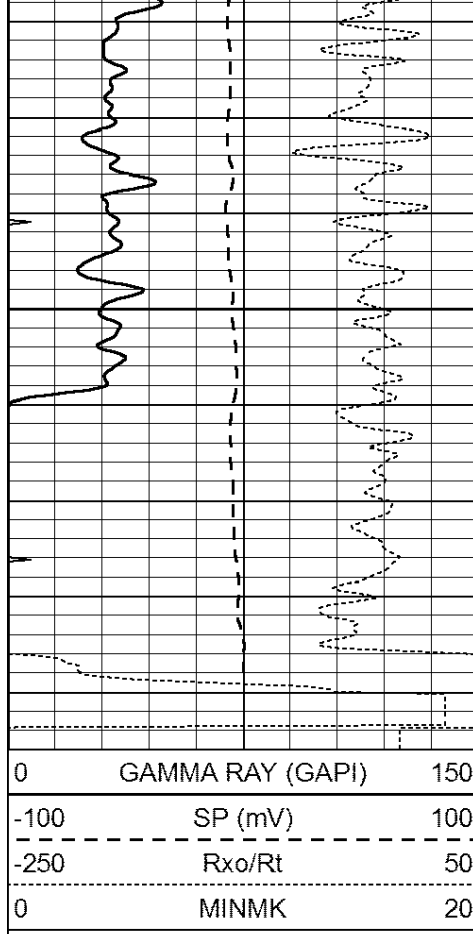


3250

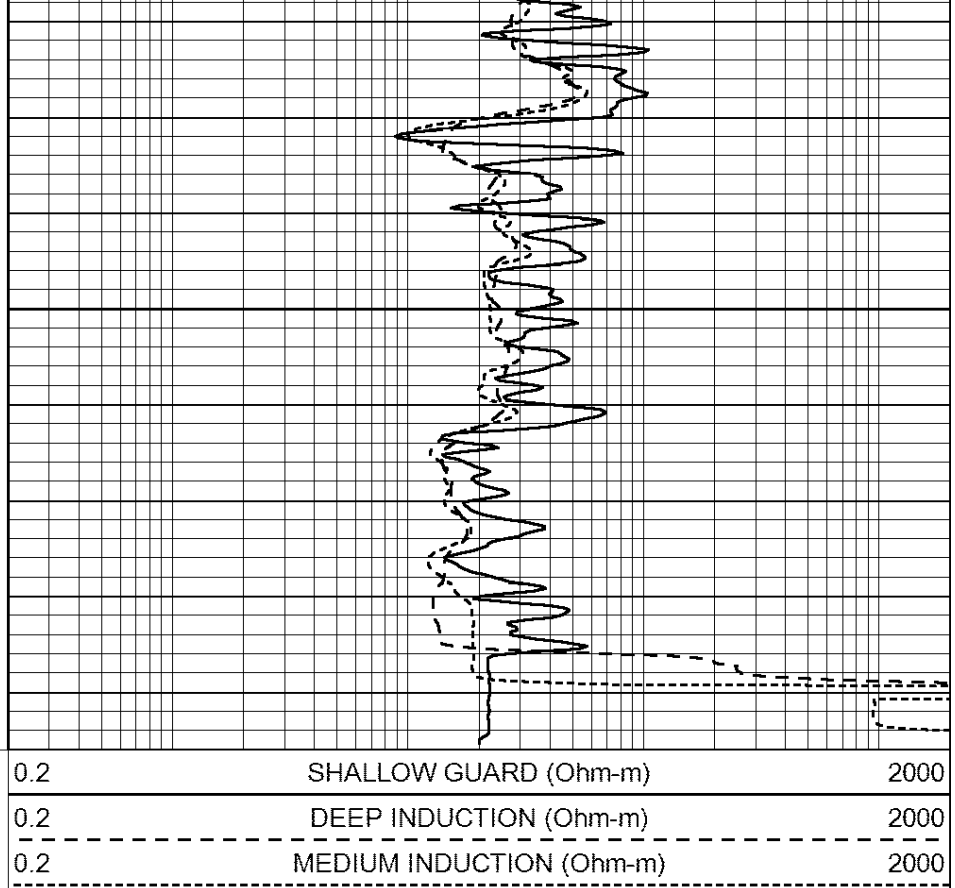
3300

3350





3400



Calibration Report

Database File: pe2.db
 Dataset Pathname: pass2
 Dataset Creation: Mon Aug 21 11:58:02 2017 by Log Open-Cased 090629

Dual Induction Calibration Report

Serial-Model: PROBE8-DILG
 Surface Cal Performed: Mon Aug 21 11:58:18 2017
 Downhole Cal Performed: Mon Aug 21 11:58:21 2017
 After Survey Verification Performed: Mon Aug 21 11:58:23 2017

Surface Calibration

Readings				References			Results	
Loop:	Air	Loop		Air	Loop		m	b
Deep	0.015	0.648	V	0.000	400.000	mmho/m	620.000	0.000
Medium	0.029	0.796	V	0.000	464.000	mmho/m	590.000	-12.000
Internal:	Zero	Cal		Zero	Cal		m	b
Deep	0.017	0.657	V	0.000	400.000	mmho/m	625.153	-10.619
Medium	0.016	0.757	V	0.000	464.000	mmho/m	625.992	-9.739

Downhole Calibration

Readings				References			Results	
	Zero	Cal		Zero	Cal		m'	b'
Deep	0.000	0.000	mmho/m	2.011	405.777	mmho/m	1.000	0.000
Medium	0.000	0.000	mmho/m	7.590	503.393	mmho/m	1.000	0.000
LL3		7.500	V		1500.000	Ohm-m		
		0.000	V		20.000	Ohm-m		
		-7.200	V		3800.000	mmho-m		

Detector		Readings		Target		Normalization
Short Space		1.00	cps	1.00	cps	1.0000
Long Space		1.00	cps	1.00	cps	1.0000
PRE-SURVEY VERIFICATION						
Detector		Readings		Measured		Target
1)	Short Space		cps			
	Long Space		cps		pu	pu
2)	Short Space		cps			
	Long Space		cps		pu	
3)	Short Space		cps			
	Long Space		cps		pu	
POST-SURVEY VERIFICATION						
Detector		Readings		Measured		Target
1)	Short Space		cps			
	Long Space		cps		pu	pu
2)	Short Space		cps			
	Long Space		cps		pu	pu
3)	Short Space		cps			
	Long Space		cps		pu	pu
Gamma Ray Calibration Report						
Serial Number:		GR6				
Tool Model:		OPEN				
Performed:		Mon Aug 21 11:59:01 2017				
Calibrator Value:		150.0		GAPI		
Background Reading:		0.0		cps		
Calibrator Reading:		276.0		cps		
Sensitivity:		0.5500		GAPI/cps		