



NABORS

**COMPLETION
& PRODUCTION
SERVICES CO.**

DUAL INDUCTION LOG

Company		TRANS PACIFIC OIL CORPORATION	
Well		LOHREY A #1-4	
Field		WILDCAT	
County		ELLIS	
State		KANSAS	
Location:		APL # : 15-051-26737-0000 1440' FSL & 950' FWL	
SEC 4 TWP 11S RGE 18W		Other Services CDL/CNL MEL/SON	
Permanent Datum		GROUND LEVEL Elevation 2055	
Log Measured From		KELLY BUSHING 7' A.G.L.	
Drilling Measured From		KELLY BUSHING	
Date		10/23/14	
Run Number		ONE	
Depth Driller		3637	
Depth Logger		3637	
Bottom Logged Interval		3635	
Top Log Interval		00	
Casing Driller		8 5/8" @ 264	
Casing Logger		264	
Bit Size		7 7/8"	
Type Fluid in Hole		CHEMICAL MUD	
Density / Viscosity		9.4/59	
pH / Fluid Loss		10.0/8.0	
Source of Sample		FLOWLINE	
Rm @ Meas. Temp		.90 @ 75F	
Rmt @ Meas. Temp		.67 @ 75F	
Rmc @ Meas. Temp		1.08 @ 75F	
Source of Rmt / Rmc		MEASUREMENT	
Rm @ BHT		.59 @ 113F	
Time Circulation Stopped		2 HOURS	
Time Logger on Bottom		113F	
Maximum Recorded Temperature		4010	
Equipment Number		HAYS, KANSAS	
Location		JASON CAPPELLUCCI	
Recorded By		ALEX CHAPIN	
Witnessed By			

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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 NABORS, HAYS, KS. (785) 628-6395
DIRECTIONS:
HAYS, KS. - NORTH TO SALINE RIVER RD. - 1 1/2 WEST TO 240TH RD.
NORTH TO CURVE - EAST & SOUTH INTO

Database File:

26215ddn.db

Dataset Pathname:

pass3.3

Presentation Format:

_dil2

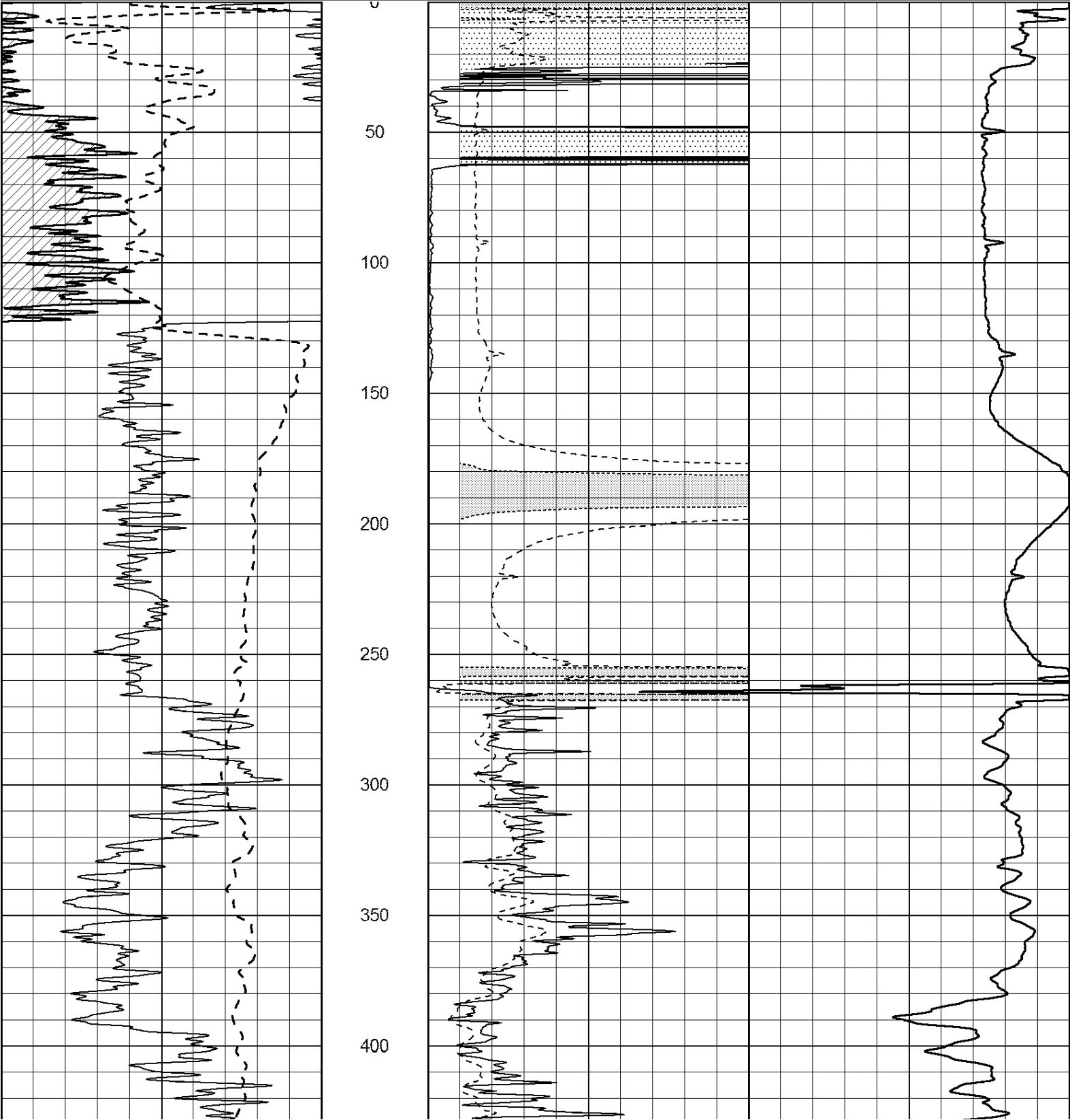
Dataset Creation:

Thu Oct 23 20:10:51 2014 by Calc Open-Cased 090629

Charted by:

Depth in Feet scaled 1:600

0	Gamma Ray (GAPI)	150	0	RLL3 (Ohm-m)	50	
-100	SP (mV)	100	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

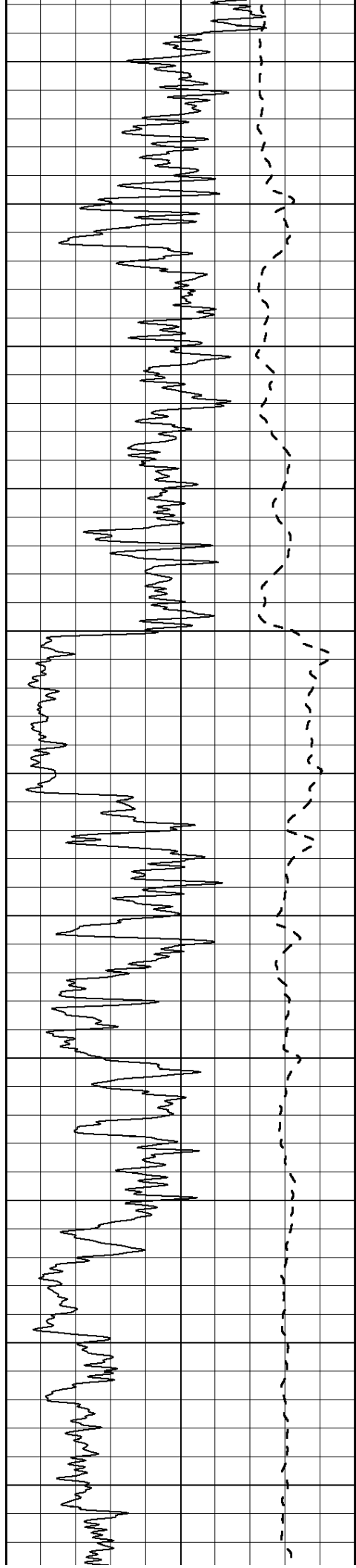
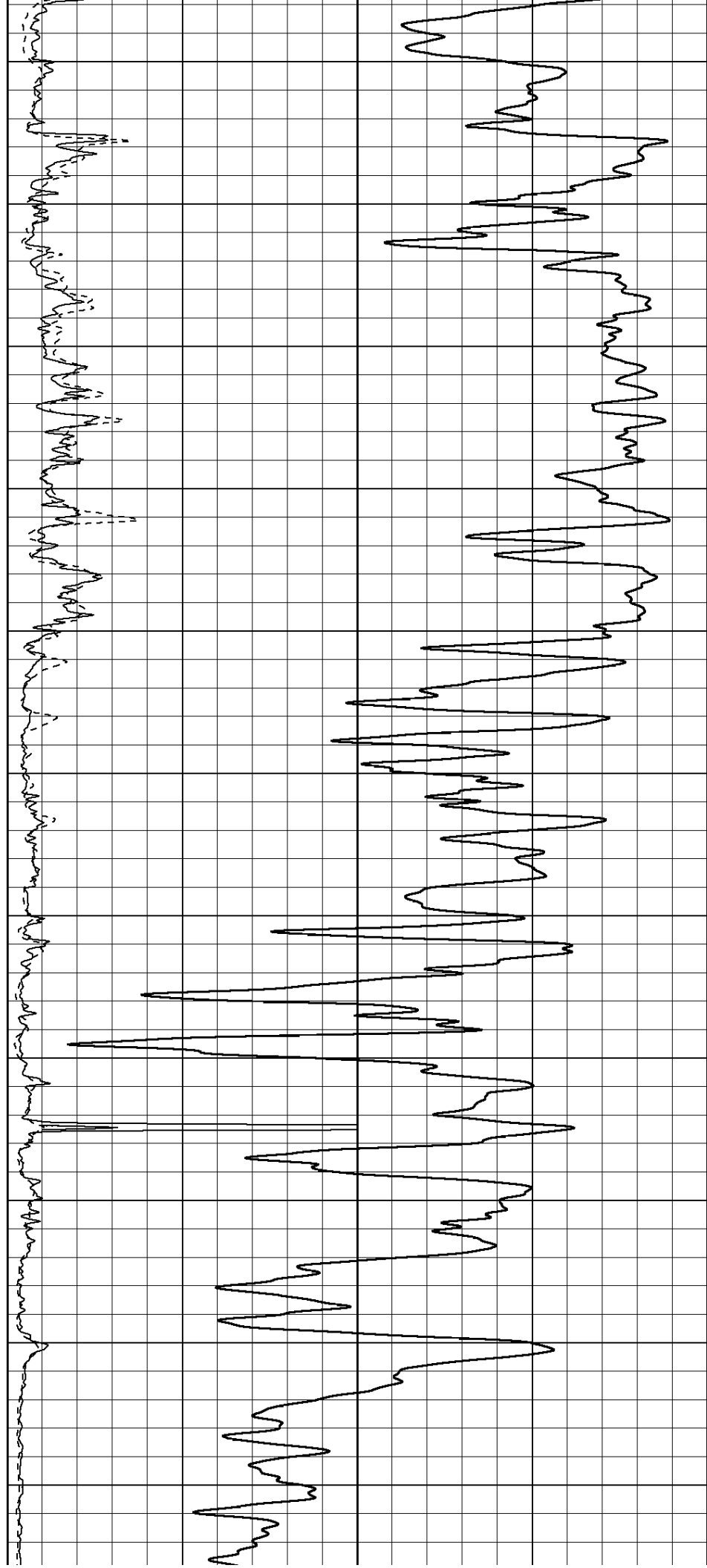
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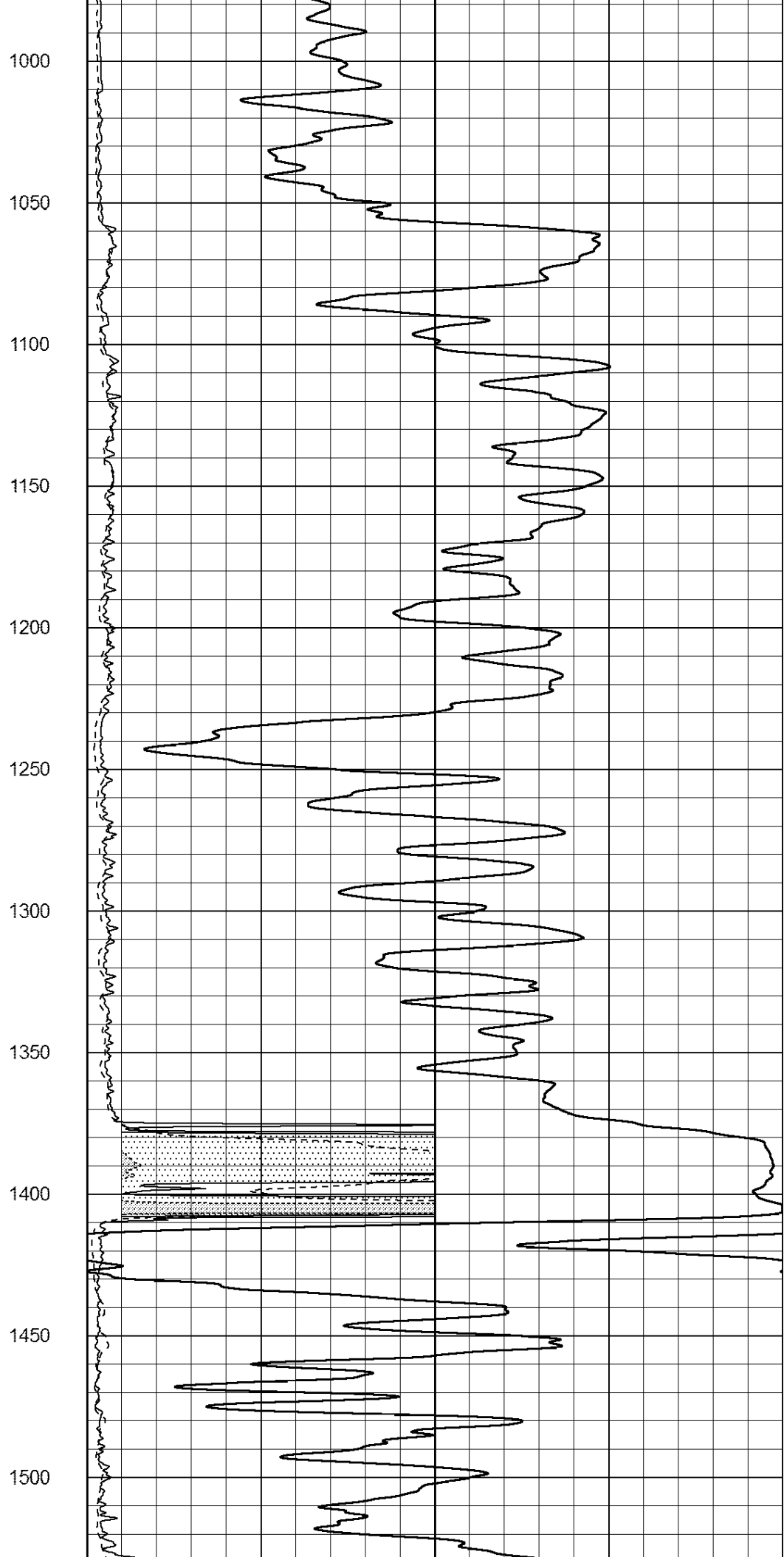
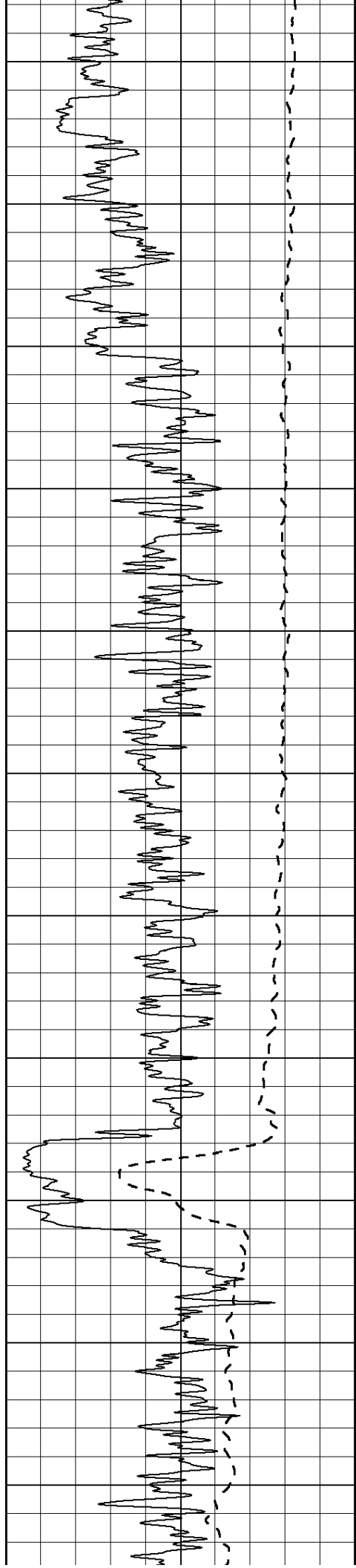
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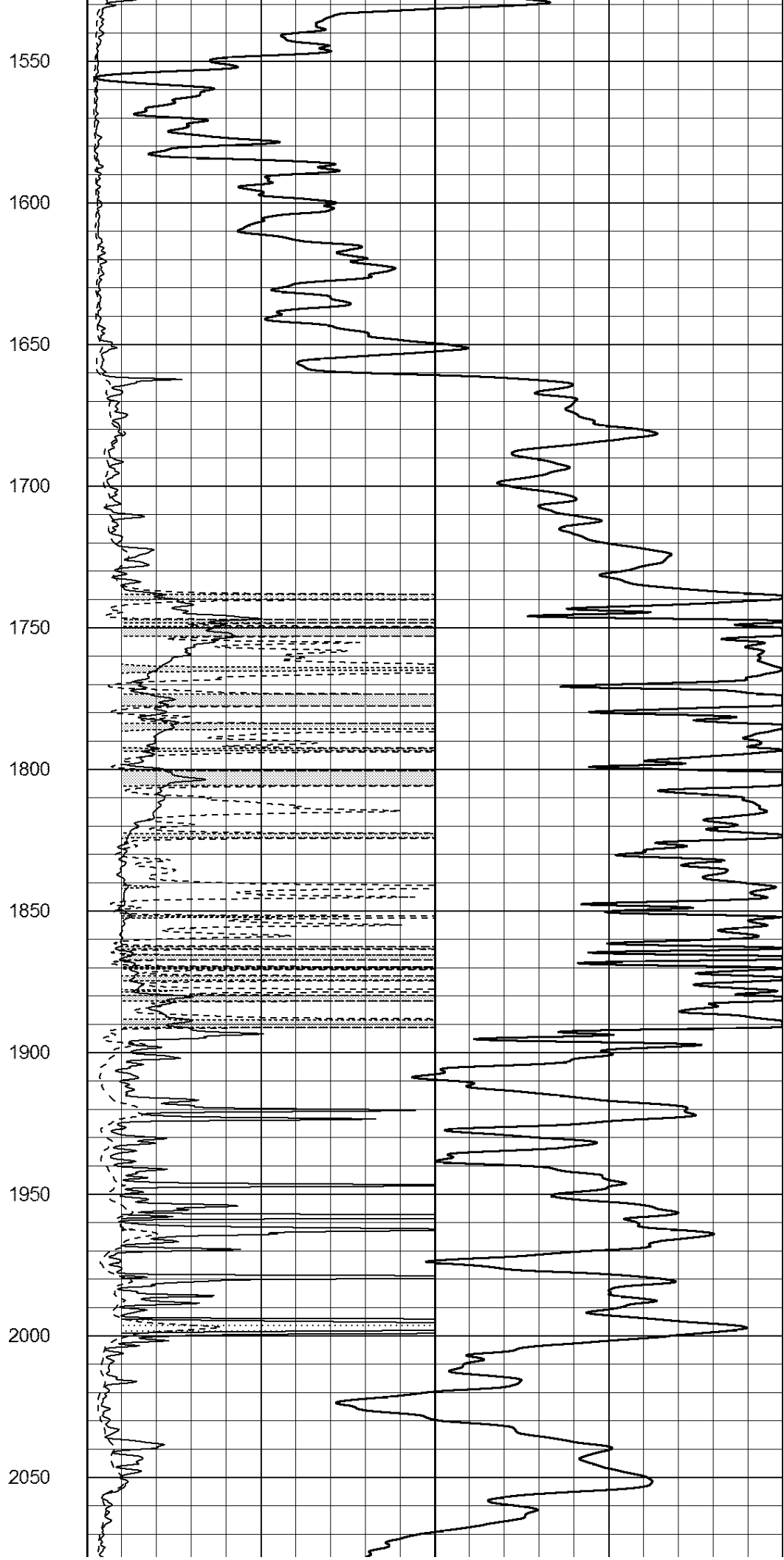
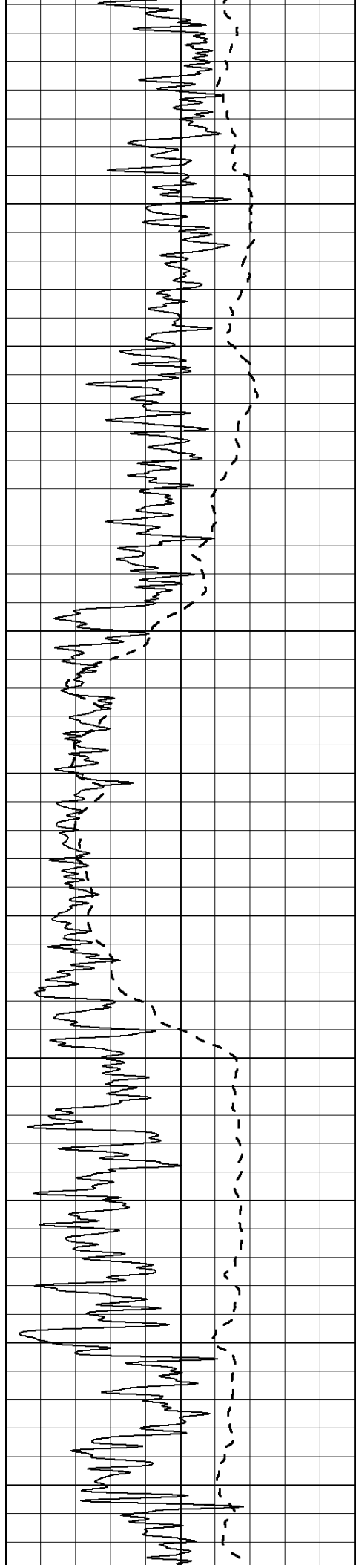
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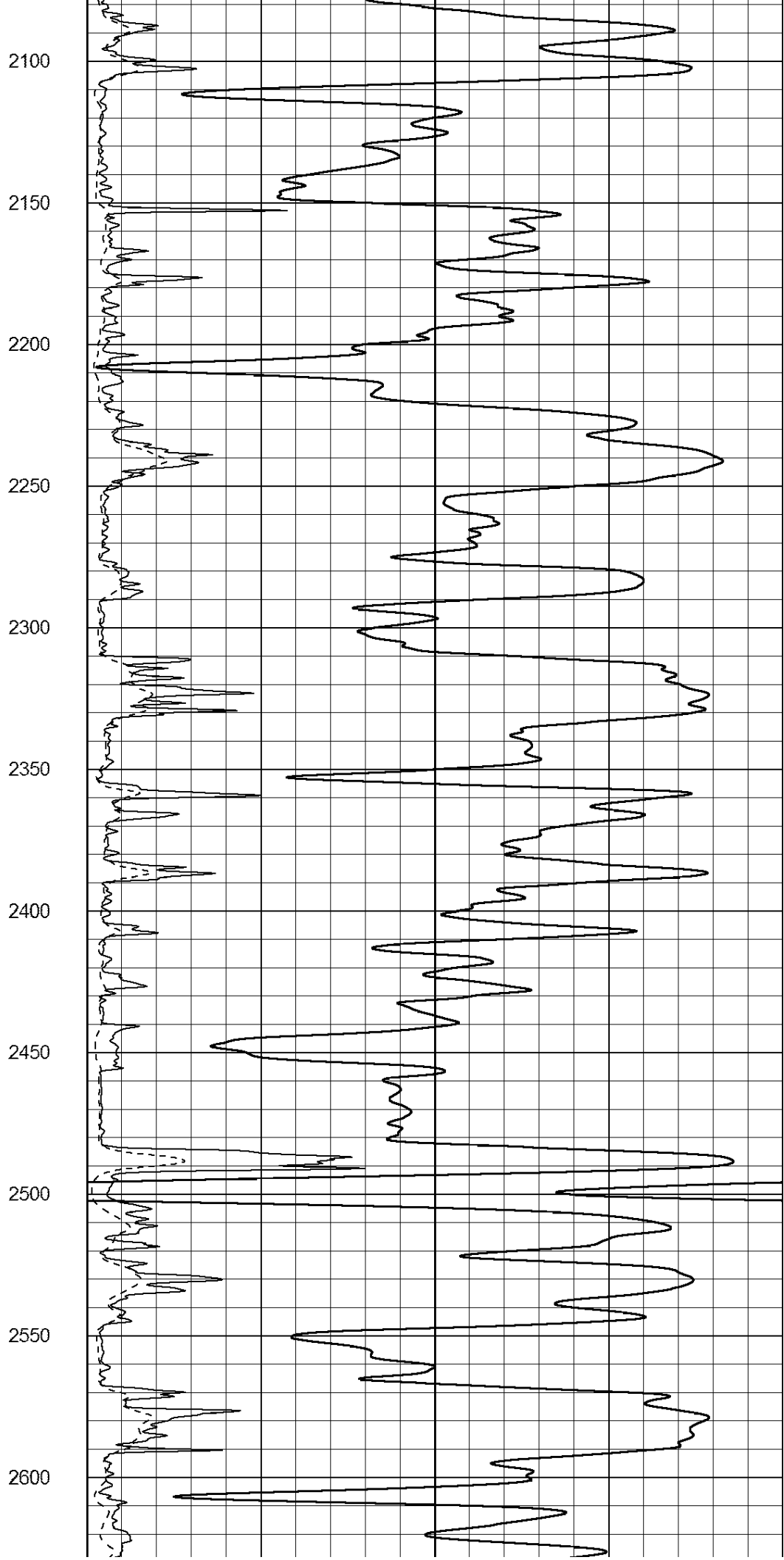
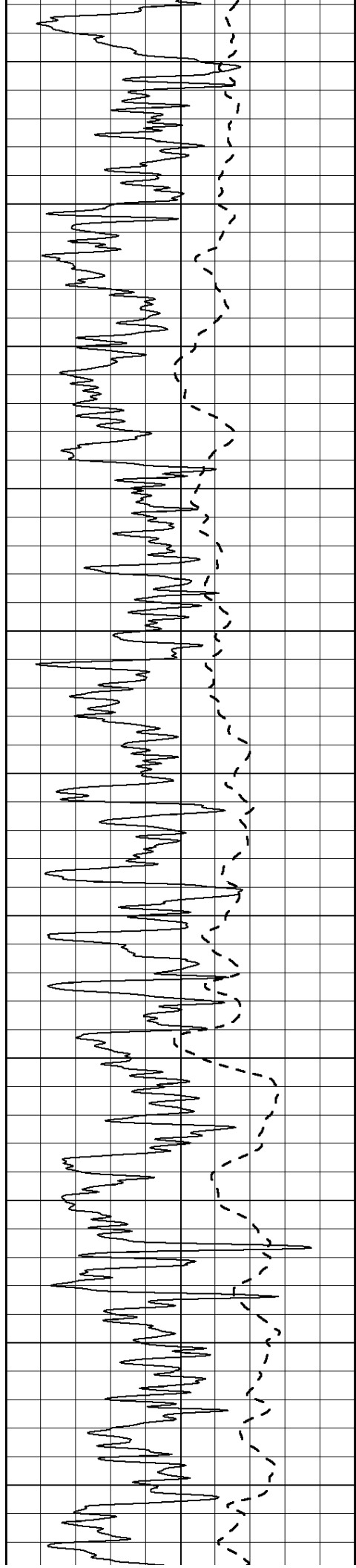
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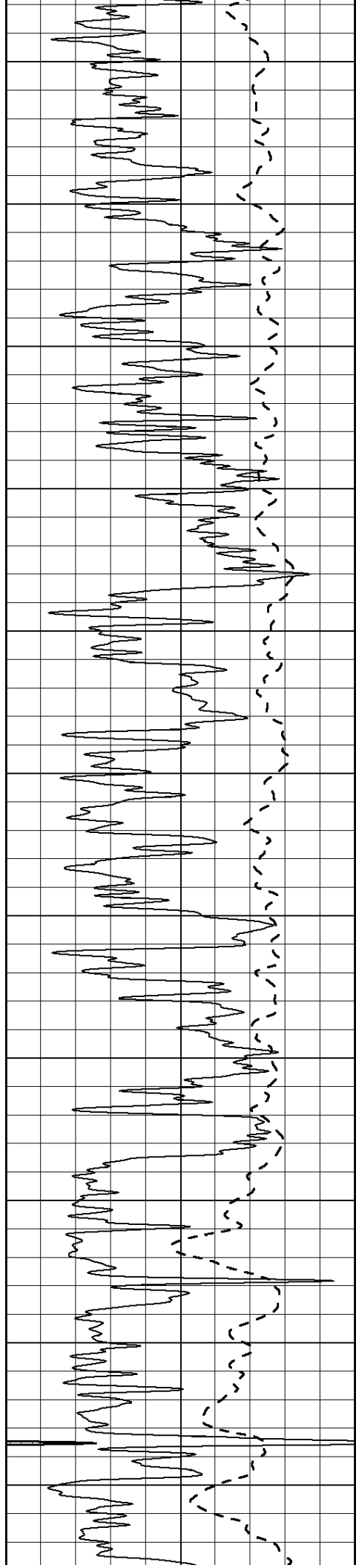
950











2650

2700

2750

2800

2850

2900

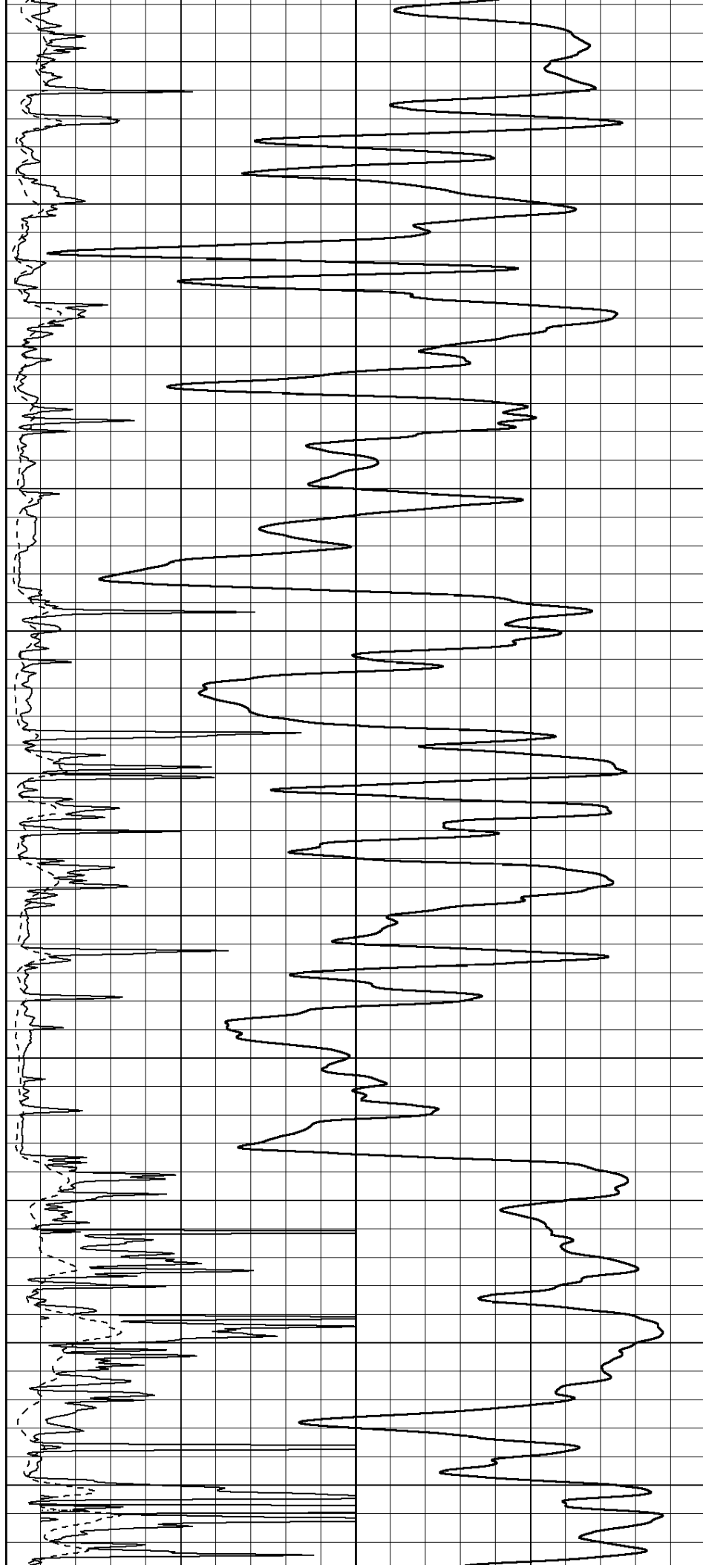
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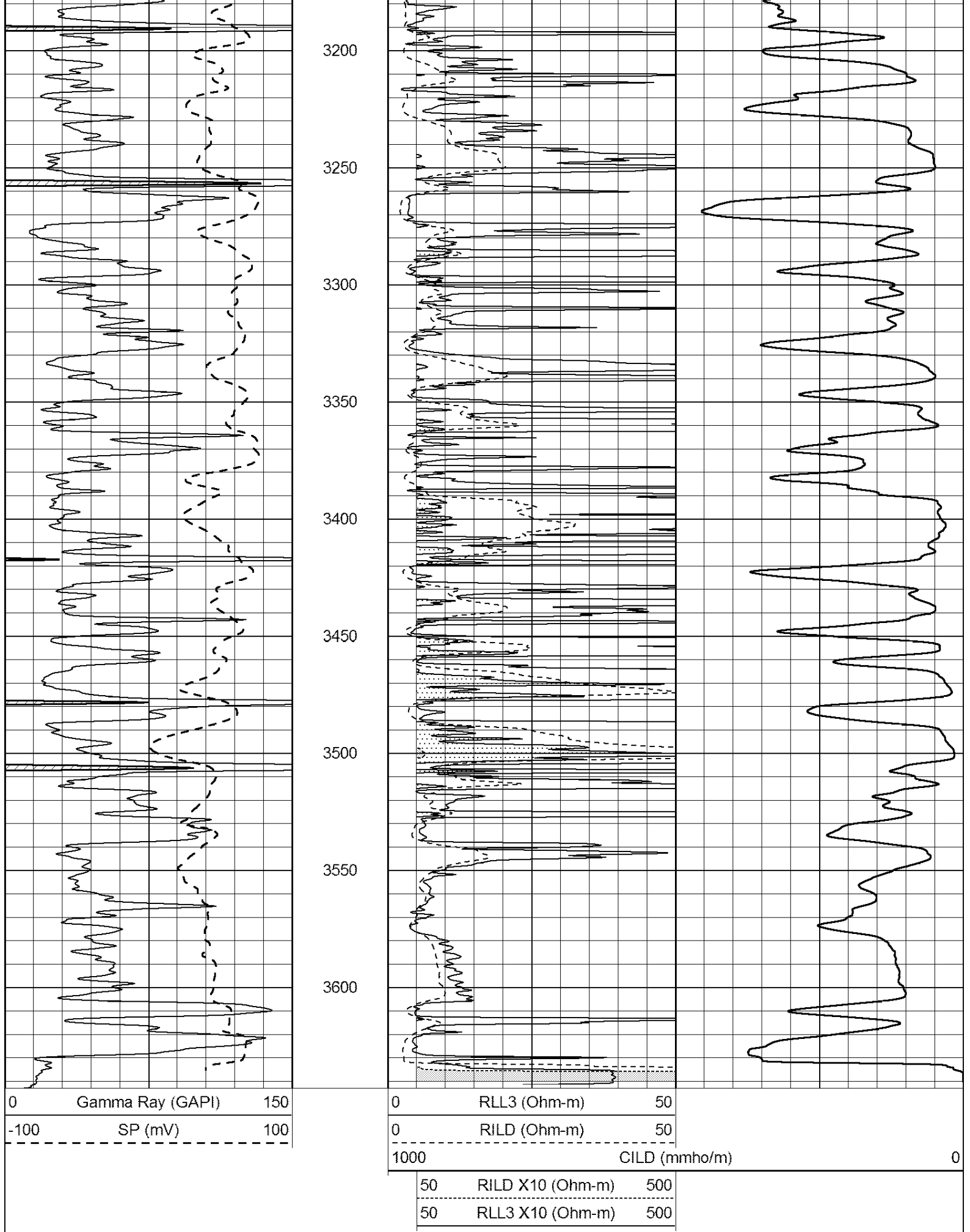
3000

3050

3100

3150



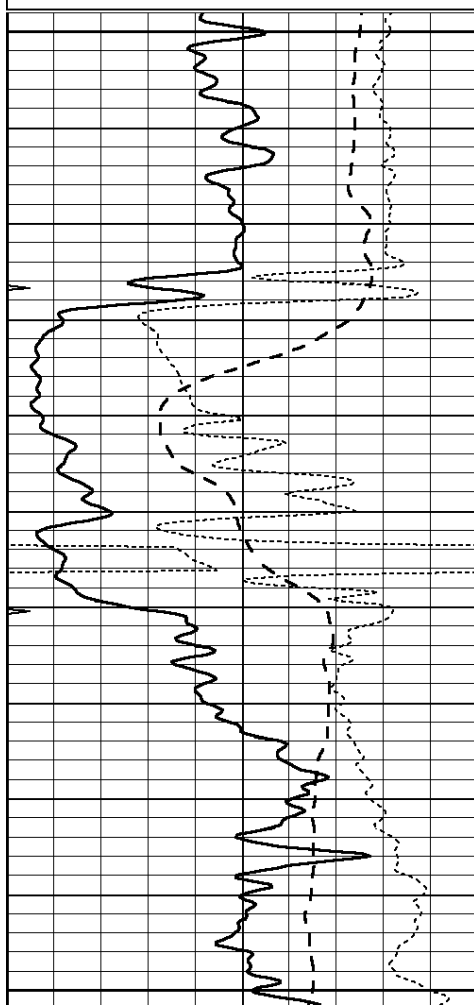


ANHYDRITE

Database File: 26215ddn.db
 Dataset Pathname: pass3.2
 Presentation Format: _dil
 Dataset Creation: Thu Oct 23 19:41:05 2014 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

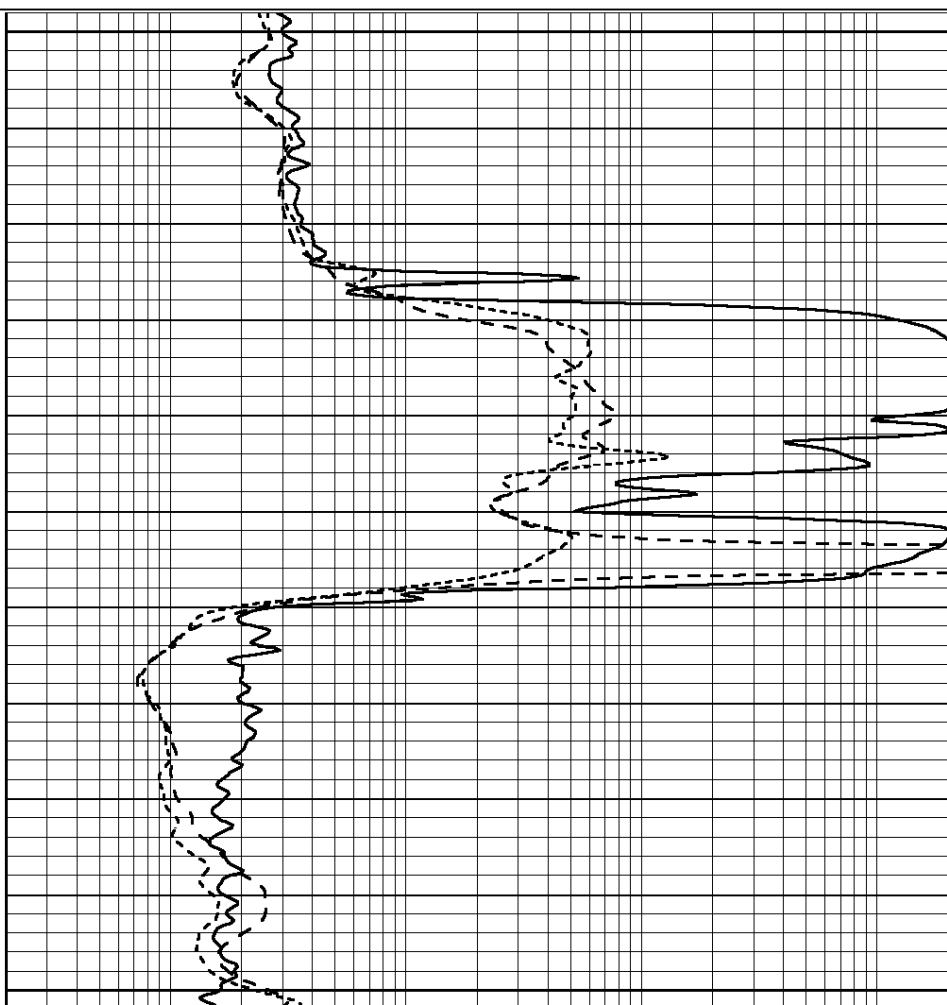


1350

1400

1450

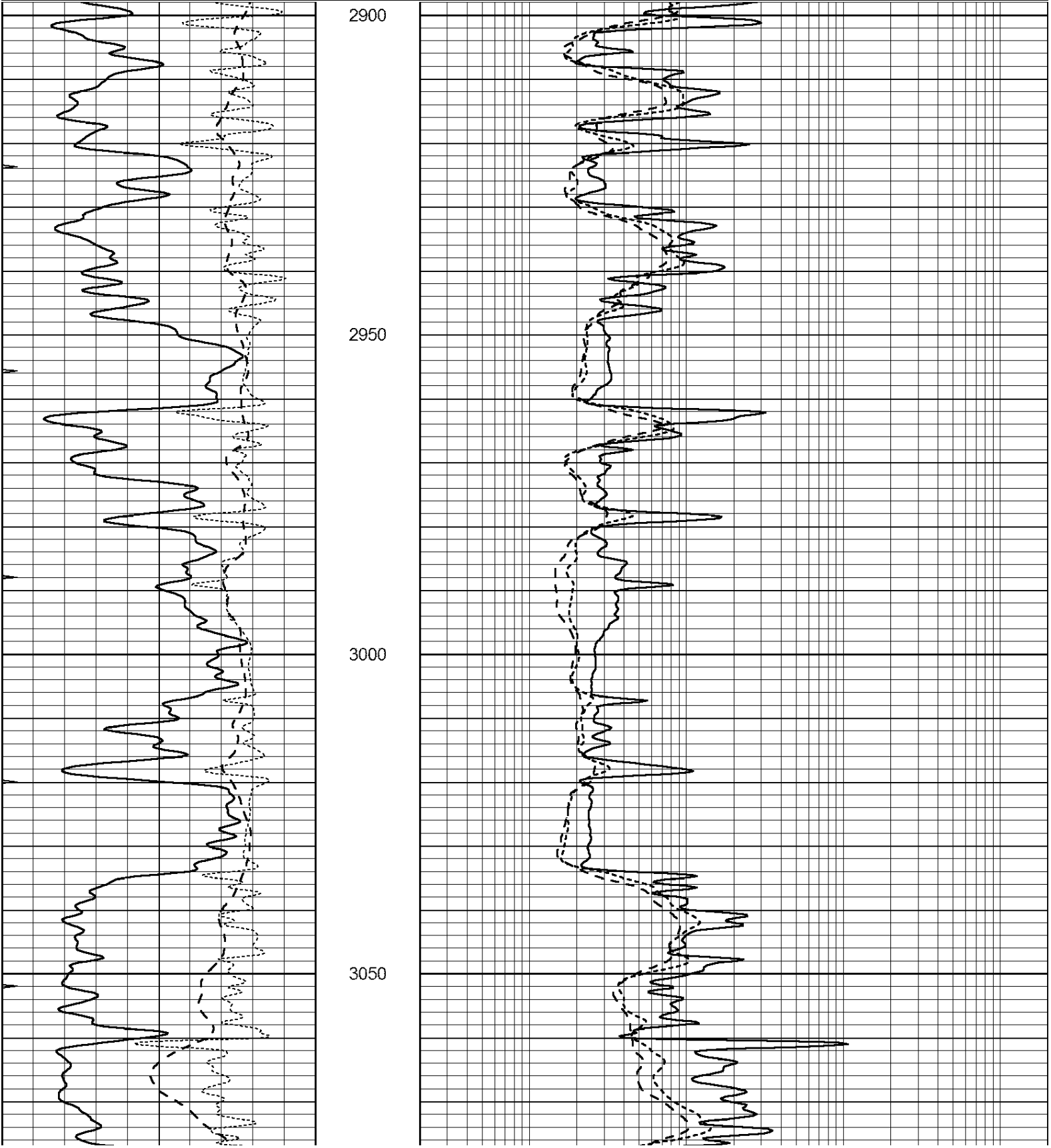
0	GAMMA RAY (GAPI)	150
-100	SP (mV)	100
-250	Rxo/Rt	50
0	MINMK	20

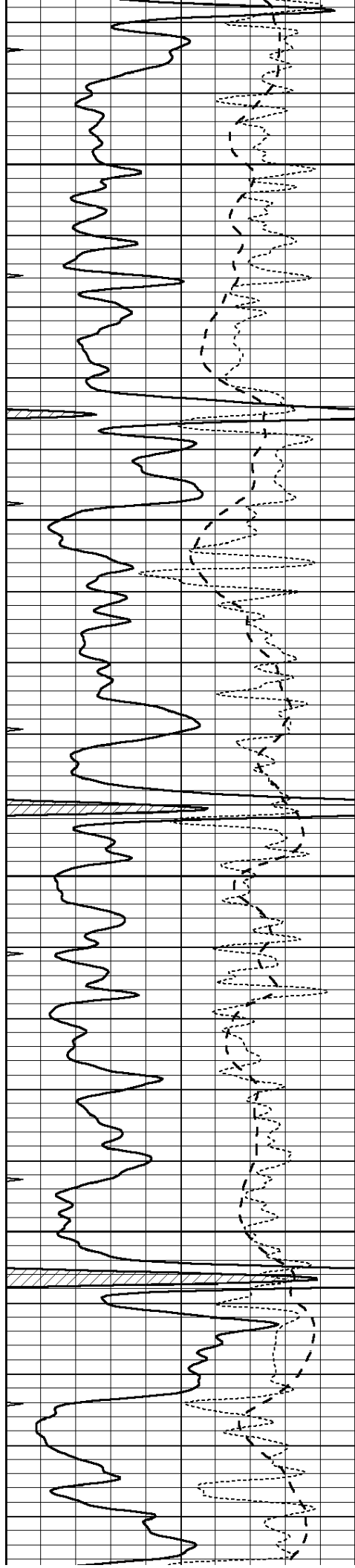


0.2	SHALLOW GUARD (Ohm-m)	2000
0.2	DEEP INDUCTION (Ohm-m)	2000
0.2	MEDIUM INDUCTION (Ohm-m)	2000

MAIN SECTION

0	GAMMA RAY (GAPI)	150	0.2	SHALLOW GUARD (Ohm-m)	2000
-100	SP (mV)	100	0.2	DEEP INDUCTION (Ohm-m)	2000
-250	Rxo/Rt	50	0.2	MEDIUM INDUCTION (Ohm-m)	2000
0	MINMK	20			



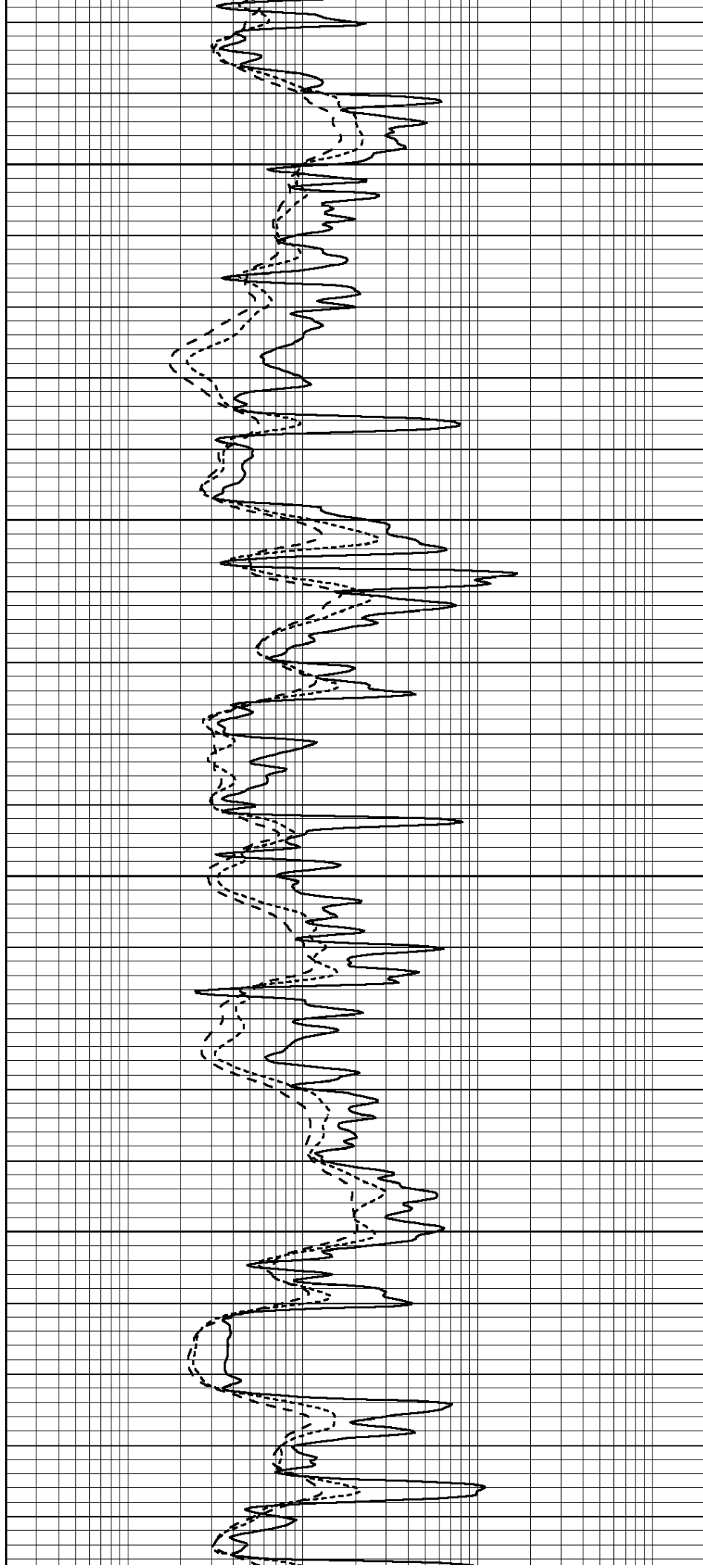


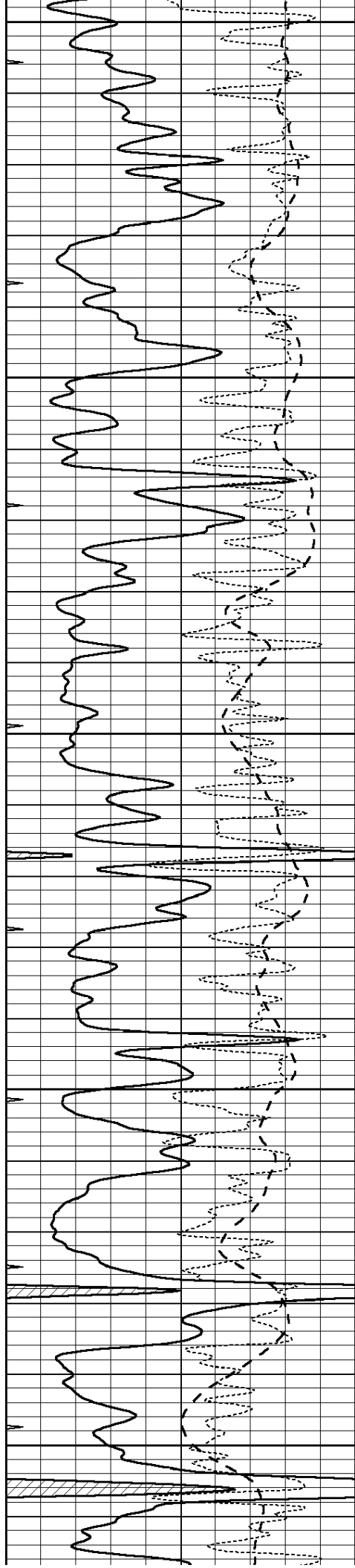
3100

3150

3200

3250





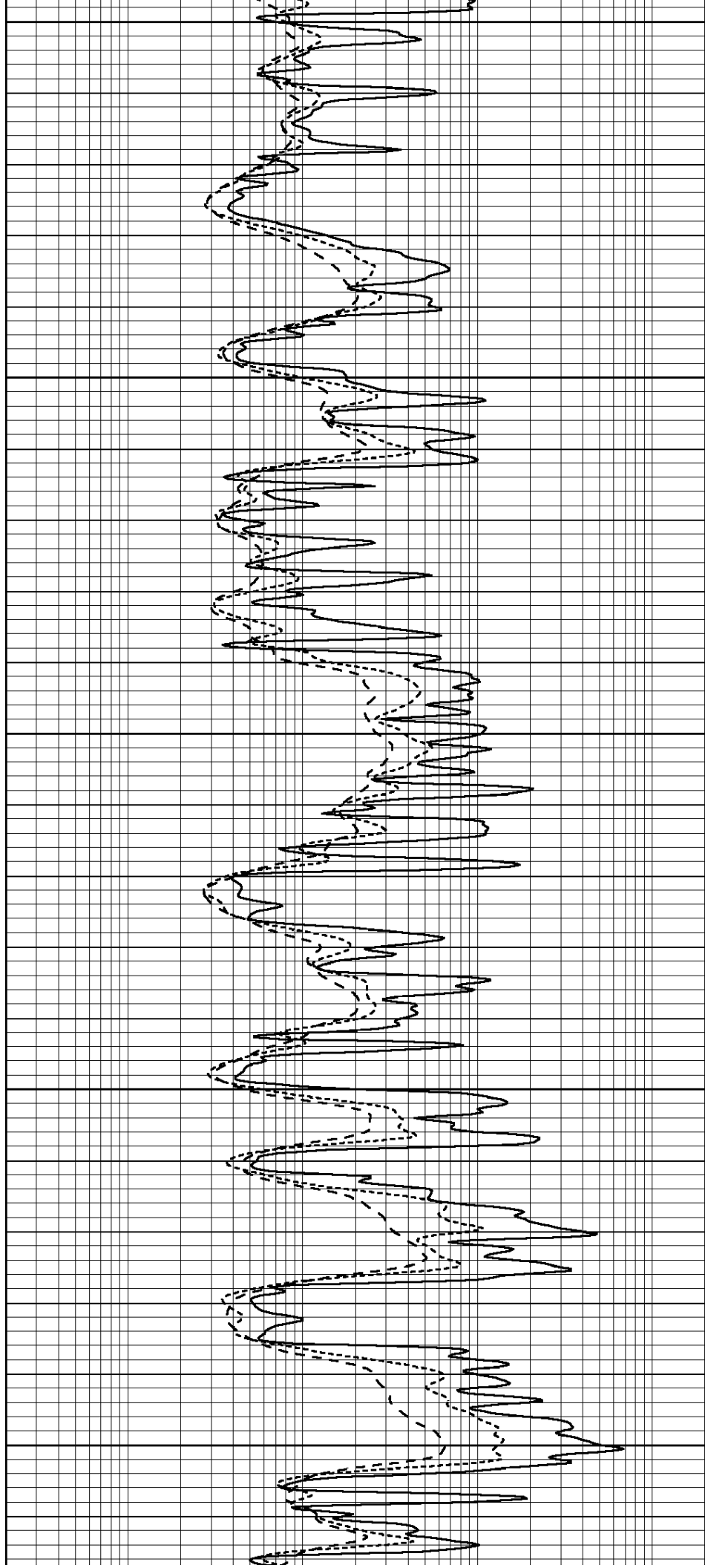
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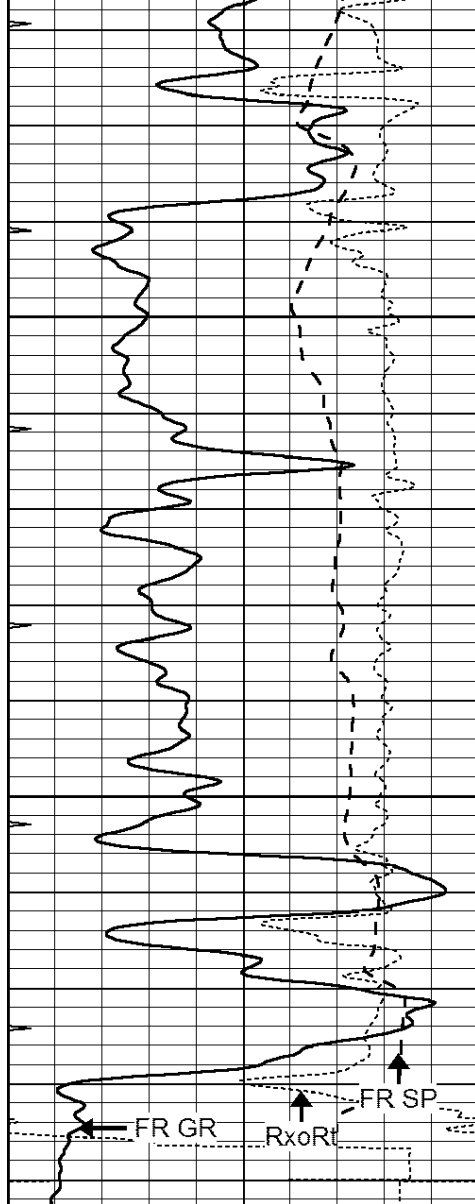
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3400

3450

3500



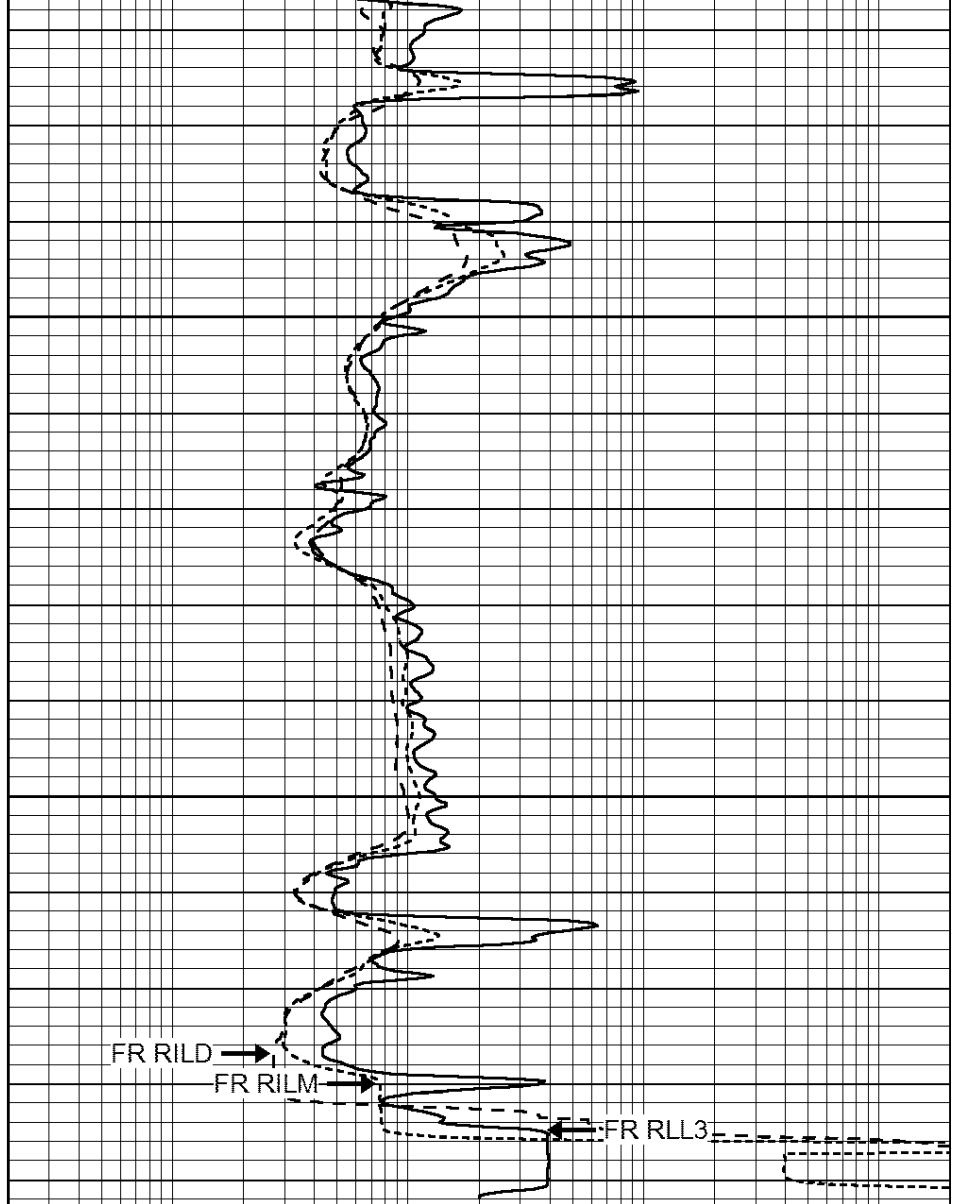


3550

3600

LTD 3637

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

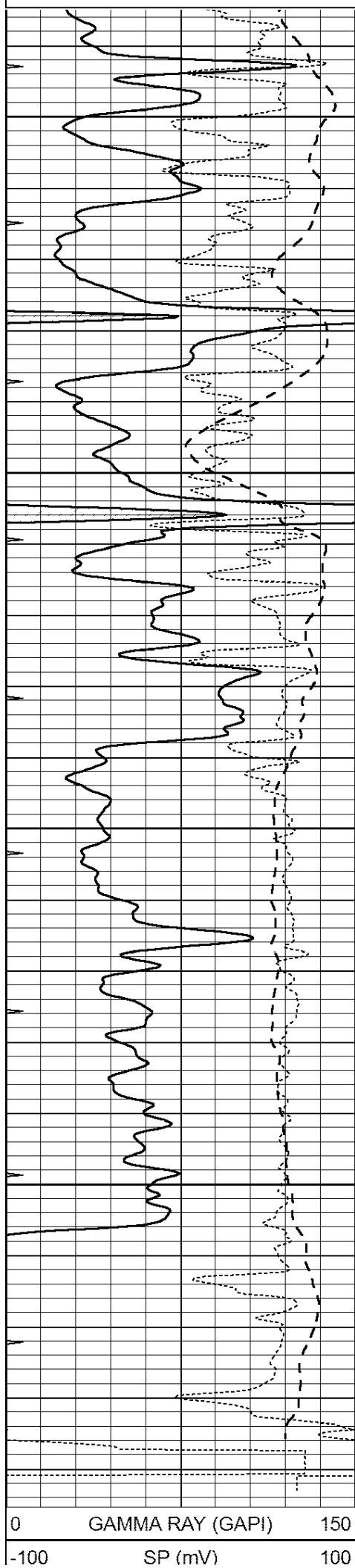


REPEAT SECTION

Database File: 26215ddn.db
 Dataset Pathname: pass2.1
 Presentation Format: _dil
 Dataset Creation: Thu Oct 23 19:39:22 2014 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

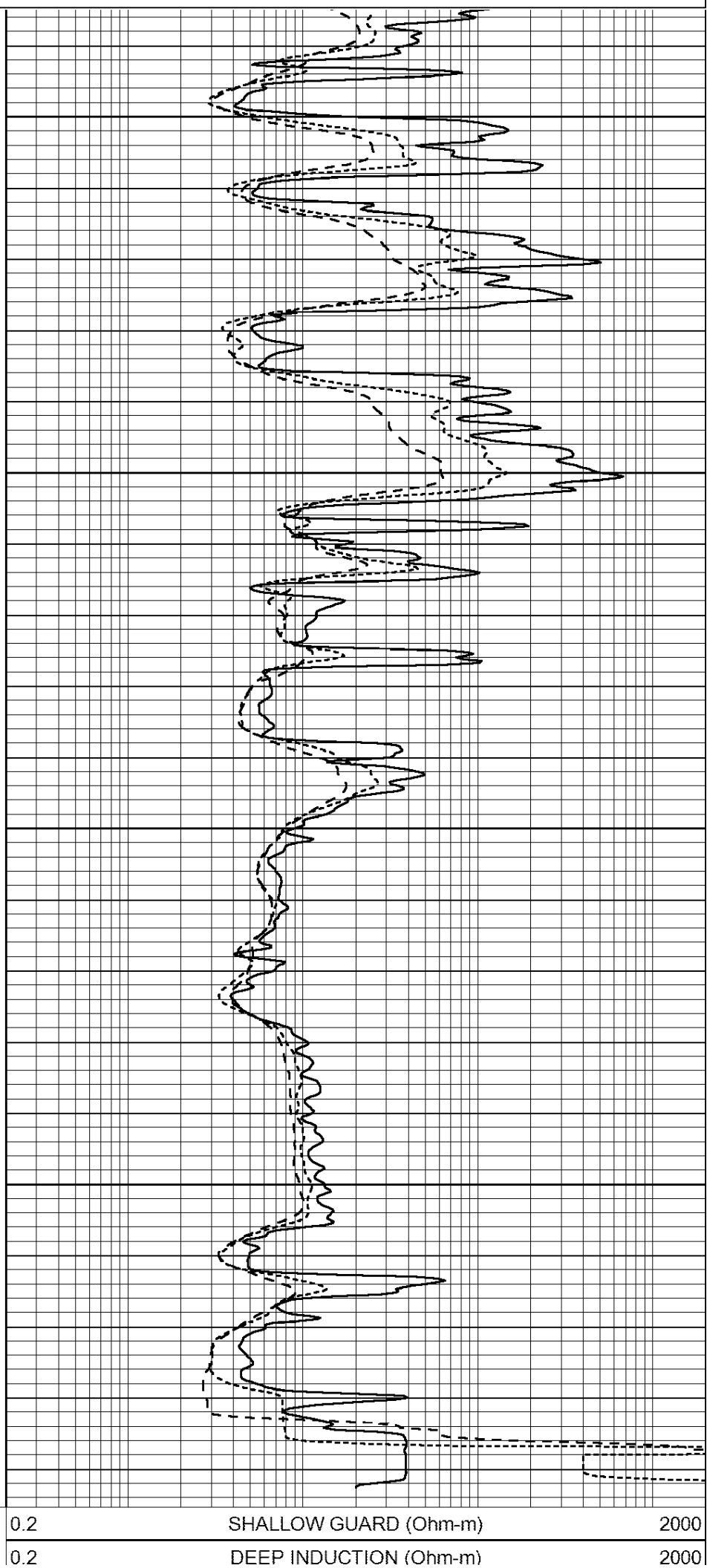


3450

3500

3550

3600



-250	Rxo/Rt	50	0.2	MEDIUM INDUCTION (Ohm-m)	2000
0	MINMK	20			

Calibration Report					
Database File:	26215ddn.db				
Dataset Pathname:	pass2.1				
Dataset Creation:	Thu Oct 23 19:39:22 2014 by Calc Open-Cased 090629				

Dual Induction Calibration Report					
Serial-Model:	PROBE8-DILG				
Surface Cal Performed:	Sun Aug 17 08:09:53 2014				
Downhole Cal Performed:	Mon Jul 28 11:08:27 2008				
After Survey Verification Performed:	Mon Jul 28 11:08:27 2008				

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	-2.000
Medium	0.029	0.796	V	0.000	464.000	mmho/m	590.000	-16.000
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		

After Survey Verification								
Readings			Targets				Results	
	Zero	Cal		Zero	Cal		m'	b'
Deep	0.000	0.000	mmho/m	0.000	0.000	mmho/m	0.000	0.000
Medium	0.000	0.000	mmho/m	0.000	0.000	mmho/m	0.000	0.000
LL3		1.000	Ohm-m		1.000	Ohm-m		
		0.000	Ohm-m		0.000	Ohm-m		
		1.000	mmho-m		1.000	mmho-m		

Compensated Density Calibration Report					
Serial-Model:	GEAR3-GEARHART				
Source / Verifier:	143 / 143				
Master Calibration Performed:	Sun Aug 17 08:09:42 2014				
Before Survey Verification Performed:					
After Survey Verification Performed:					

Master Calibration					
	Density		Far Detector	Near Detector	
Magnesium	1.710	g/cc	935.36	501.55	cps
Aluminum	2.580	g/cc	209.32	357.01	cps

Spine Angle = 77.21			Density/Spine Ratio = 0.567			
	Size		Reading			
Small Ring	8.00	in	4.29	V		
Large Ring	14.00	in	6.24	V		
Before Survey Verification						
	Target		Measured			
		g/cc		g/cc		
		g/cc		g/cc		
		g/cc		g/cc		
After Survey Verification						
	Target		Measured			
		g/cc		g/cc		
		g/cc		g/cc		
		g/cc		g/cc		
Compensated Neutron Calibration Report						
	Serial Number:		6I			
	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
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:		Sun Aug 17 15:23:09 2014			
	Calibrator Value:		150.0		GAPI	
	Background Reading:		0.0		cps	

Background Reading:	0.0	cps
Calibrator Reading:	276.0	cps
Sensitivity:	0.7000	GAPI/cps