



DUAL INDUCTION LOG

Company	SHELBY RESOURCES, LLC.		
Well	DALE #1-16		
Field	WILDCAT		
County	BARTON	State	KANSAS
Company	SHELBY RESOURCES, LLC.		
Well	DALE #1-16		
Field	WILDCAT		
County	BARTON	State	KANSAS
Location:	API # : 15-009-26144-0000 2214' FNL & 941' FEL NE - SW - SE - NE		Other Services CDL/CNL MEL/SON
Permanent Datum	GROUND LEVEL	Elevation	1940
Log Measured From	KELLY BUSHING 8' A.G.L.	Elevation	K.B. 1948 D.F. 1946 G.L. 1940
Drilling Measured From	KELLY BUSHING		
Date	7/14/16		
Run Number	ONE		
Depth Driller	3500		
Depth Logger	3504		
Bottom Logged Interval	3502		
Top Log Interval	00		
Casing Driller	8 5/8"@905'		
Casing Logger	905		
Bit Size	7 7/8"		
Type Fluid in Hole	CHEMICAL MUD	CHLORIDES 3,200 PPM	
Density / Viscosity	9.3/53		
pH / Fluid Loss	9.5/9.2		
Source of Sample	FLOWLINE		
Rim @ Meas. Temp	.900@90F		
Rmf @ Meas. Temp	.675@90F		
Rmc @ Meas. Temp	1.08@90F		
Source of Rmf / Rmc	MEASUREMENT		
Rim @ BHT	.723@112F		
Time Circulation Stopped	2 HOURS		
Time Logger on Bottom	11:30 A.M.		
Maximum Recorded Temperature	112F		
Equipment Number	922339		
Location	HAYS, KANSAS		
Recorded By	JEFF LUEBBERS		
Witnessed By	JEREMY SCHWARTZ		

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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, KANSAS (785) 628-6395
DIRECTIONS
(HWY 281 & 4), W. OF HOISINGTON, KS., 3S. TO "RD. 90", 1W., 1/2S. TO SHELTER BELT, W. INTO



MAIN SECTION

Database File: 30753ddn.db
Dataset Pathname: pass3.6
Presentation Format: dil2
Dataset Creation: Thu Jul 14 12:37:28 2016 by Calc SOC 120430
Charted by: Depth in Feet scaled 1:600

0	Gamma Ray (GAPI)	150
-100	SP (mV)	100
0	RWA (Ohm-m)	1

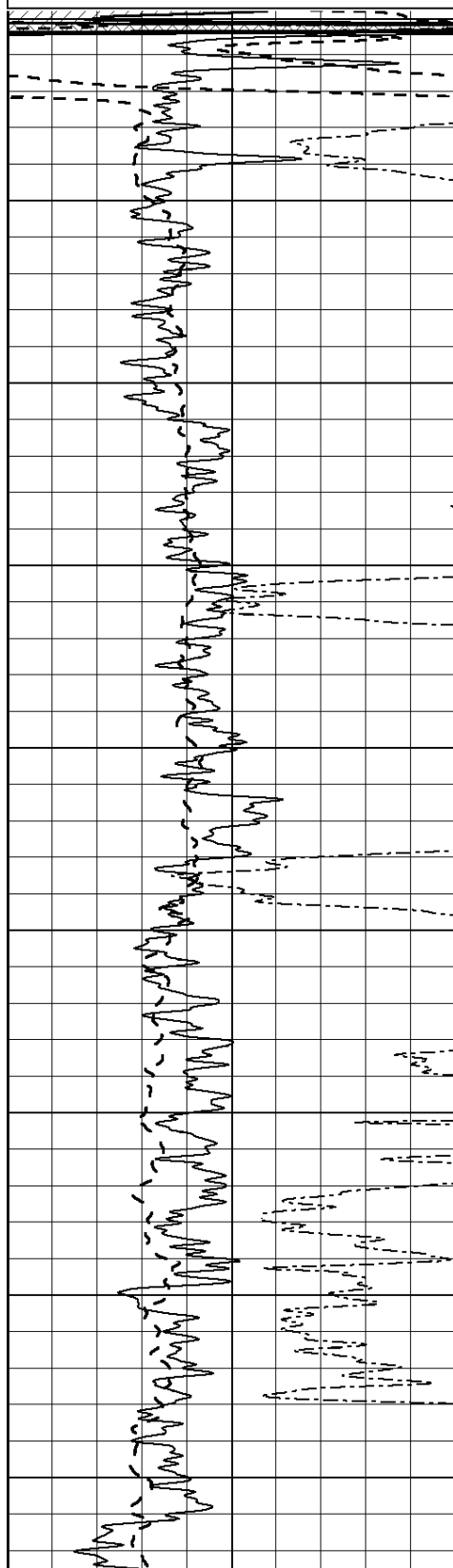
0	RLL3 (Ohm-m)	50
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0	RILD (Ohm-m)	50
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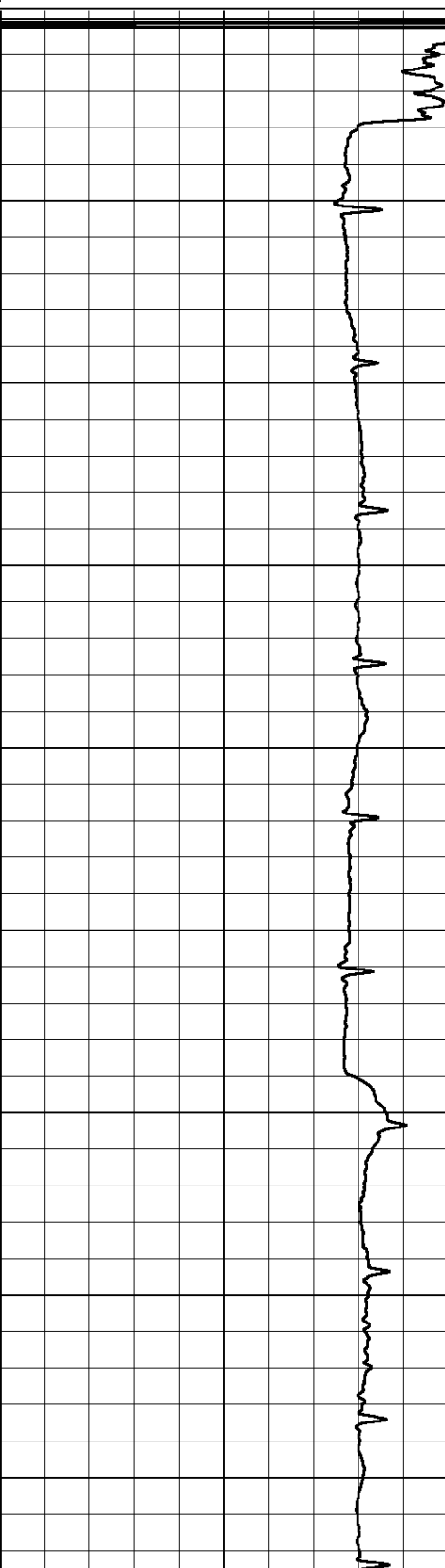
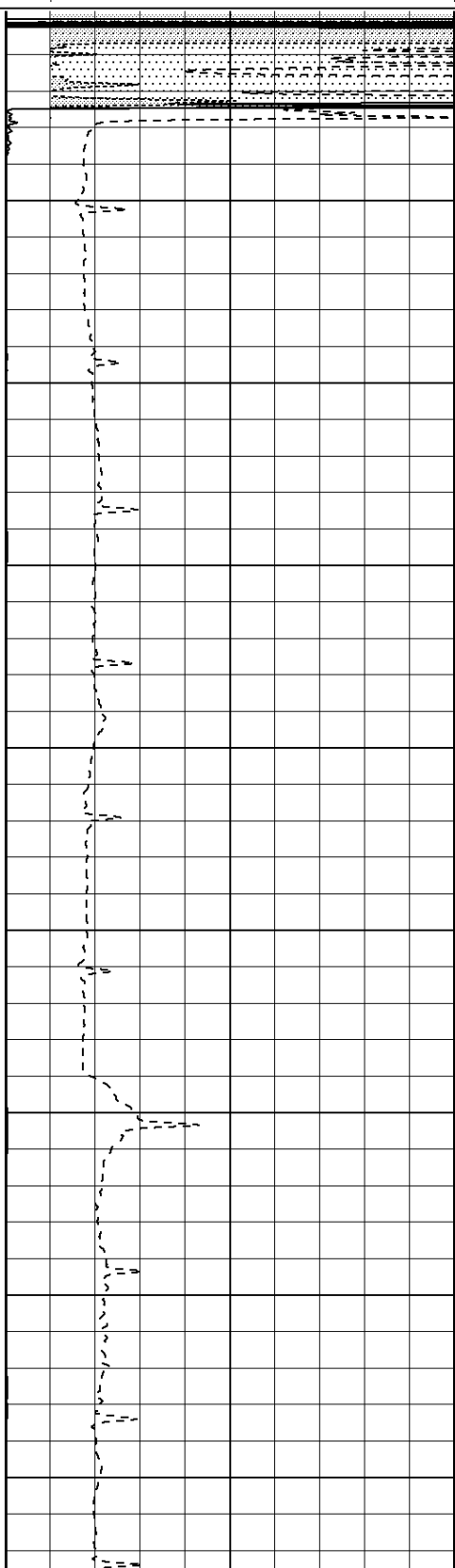
1000	CILD (mmho/m)	0
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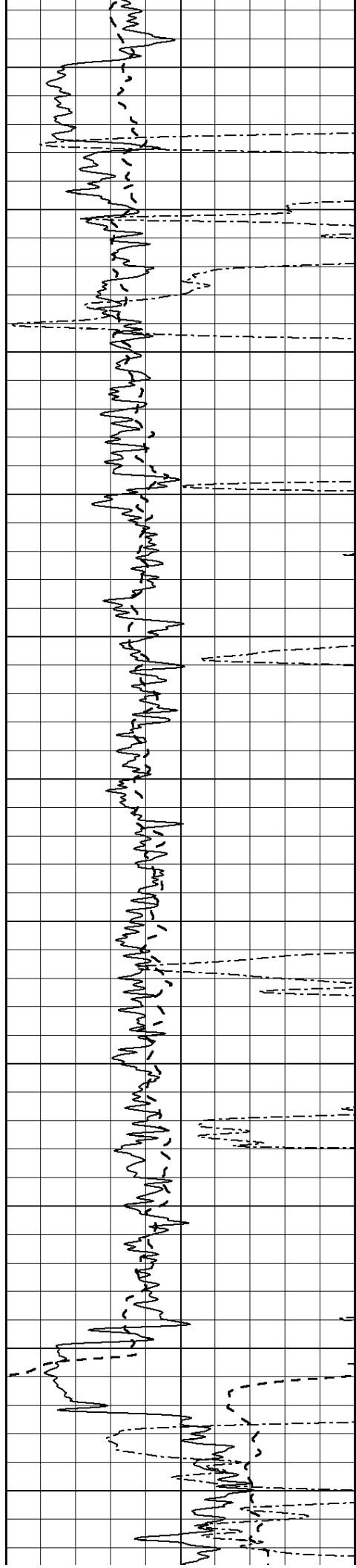
50	RILD X10 (Ohm-m)	500
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50	RLL3 X10 (Ohm-m)	500
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0
50
100
150
200
250
300
350
400





450

500

550

600

650

700

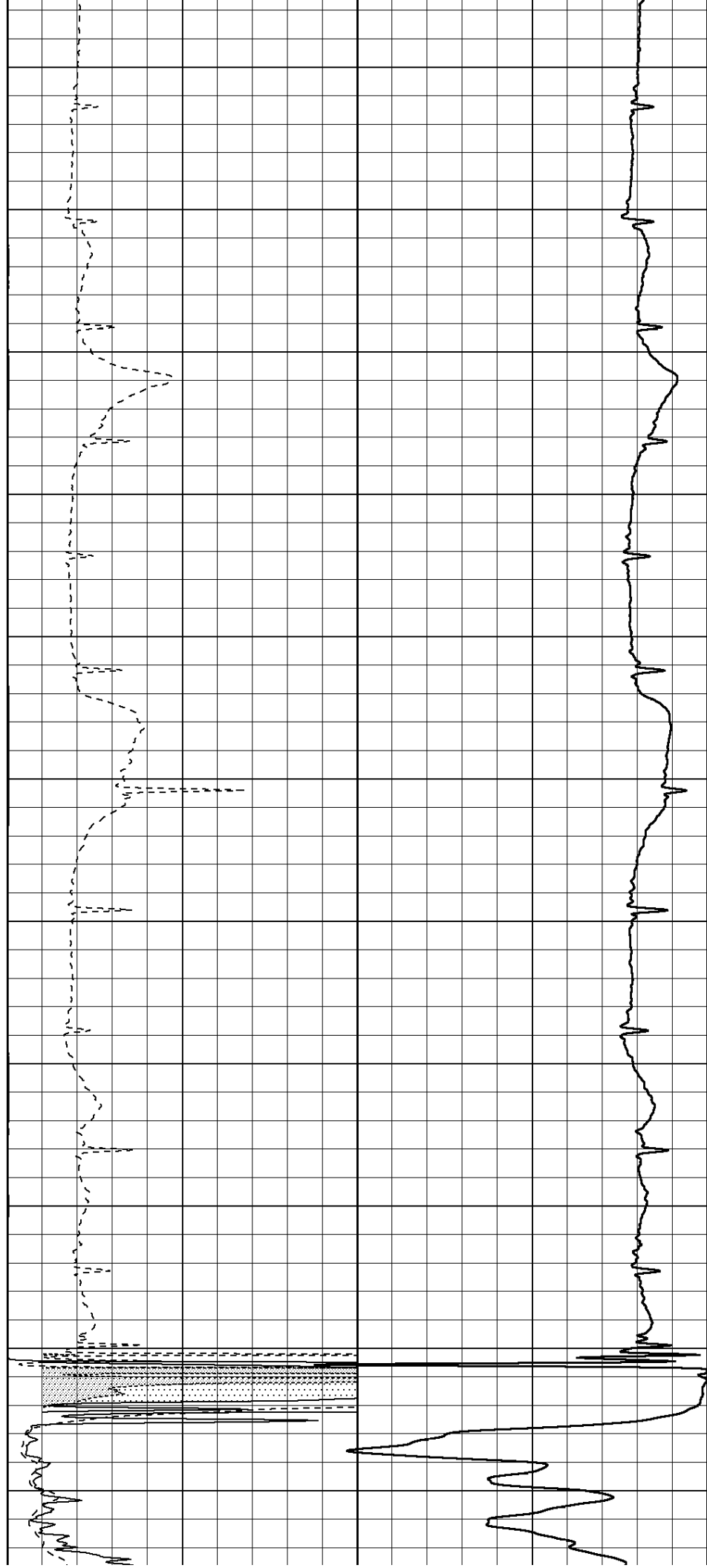
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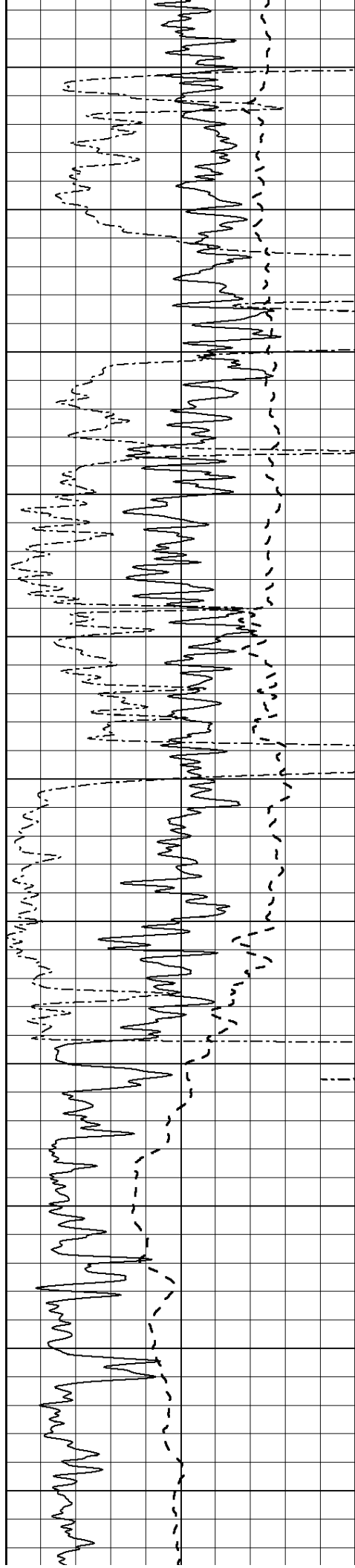
800

850

900

950





1000

1050

1100

1150

1200

1250

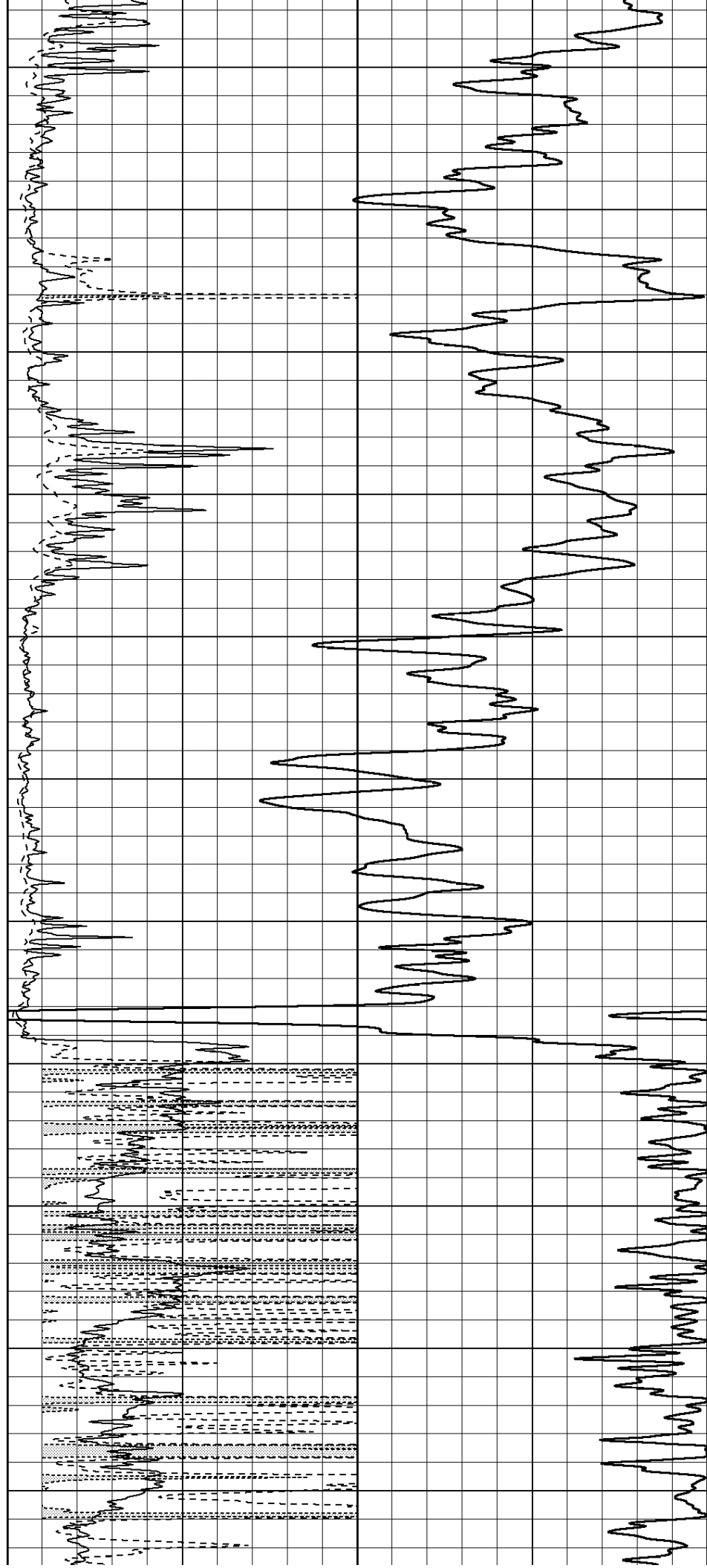
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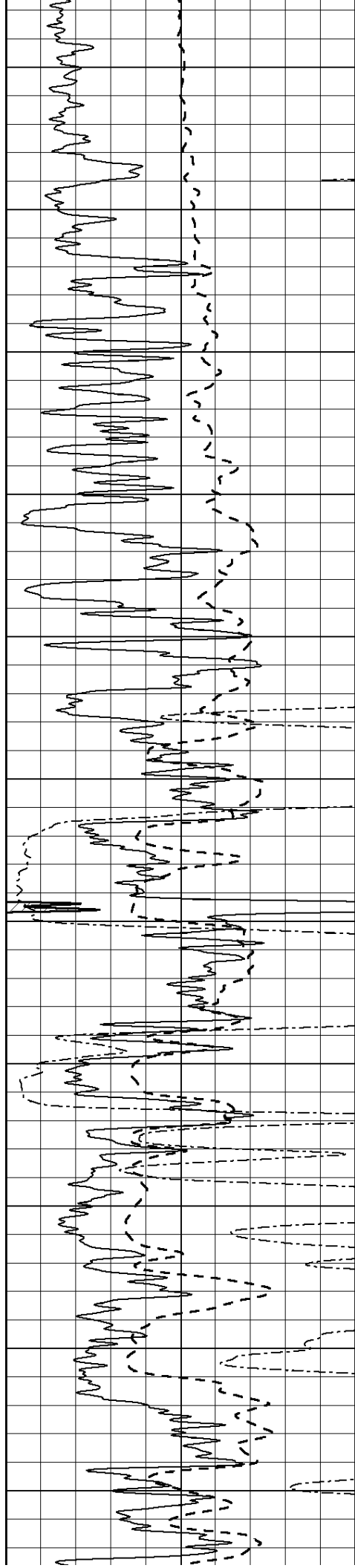
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1400

1450

1500





1550

1600

1650

1700

1750

1800

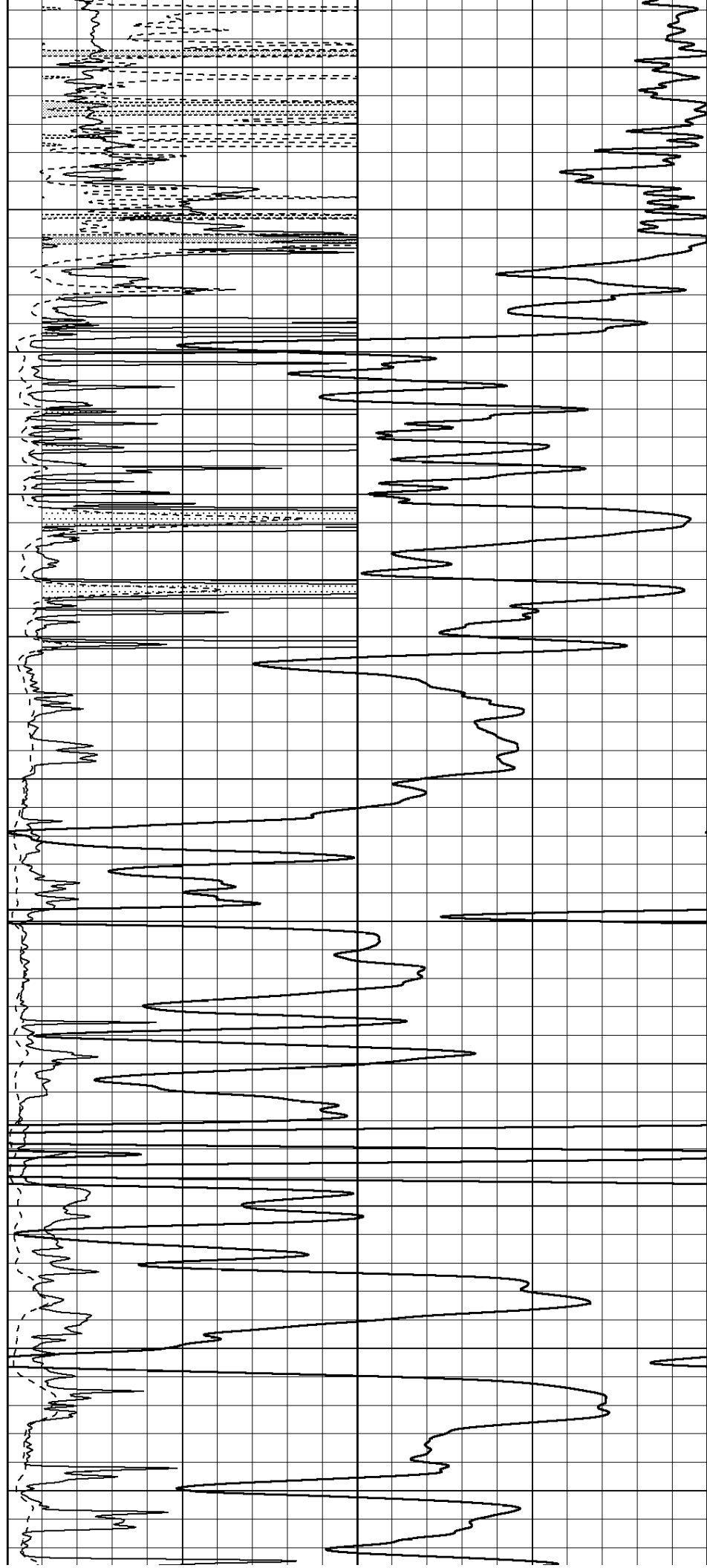
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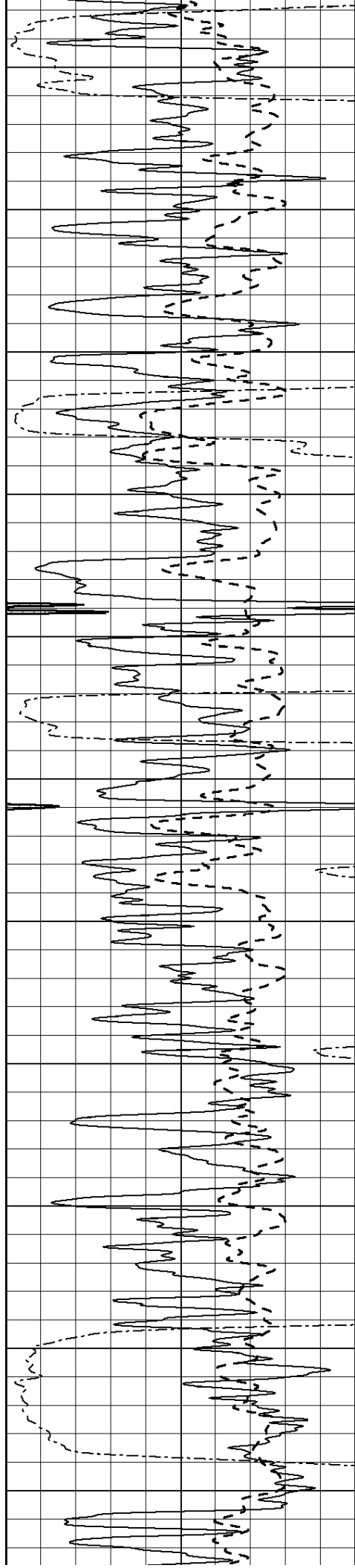
1900

1950

2000

2050





2100

2150

2200

2250

2300

2350

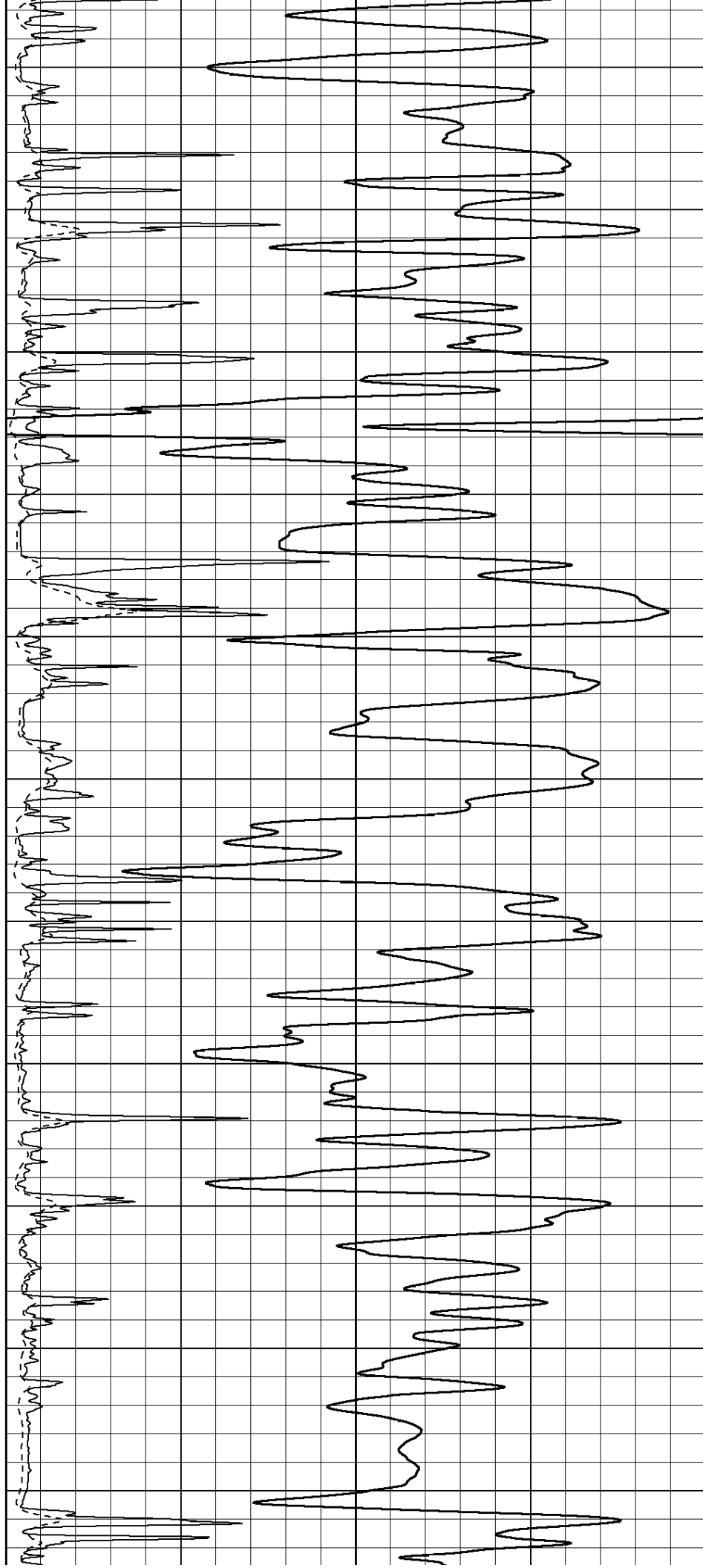
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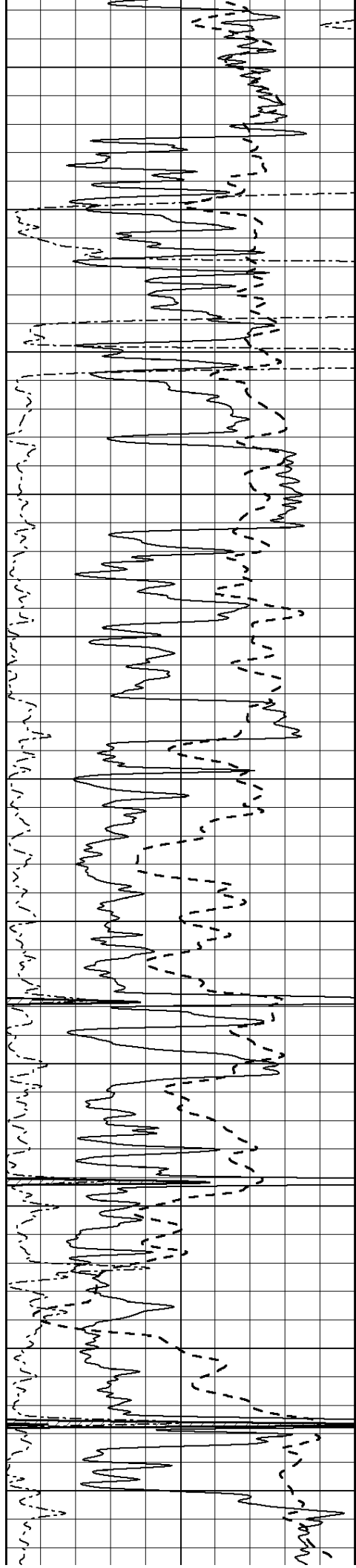
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2500

2550

2600





2650

2700

2750

2800

2850

2900

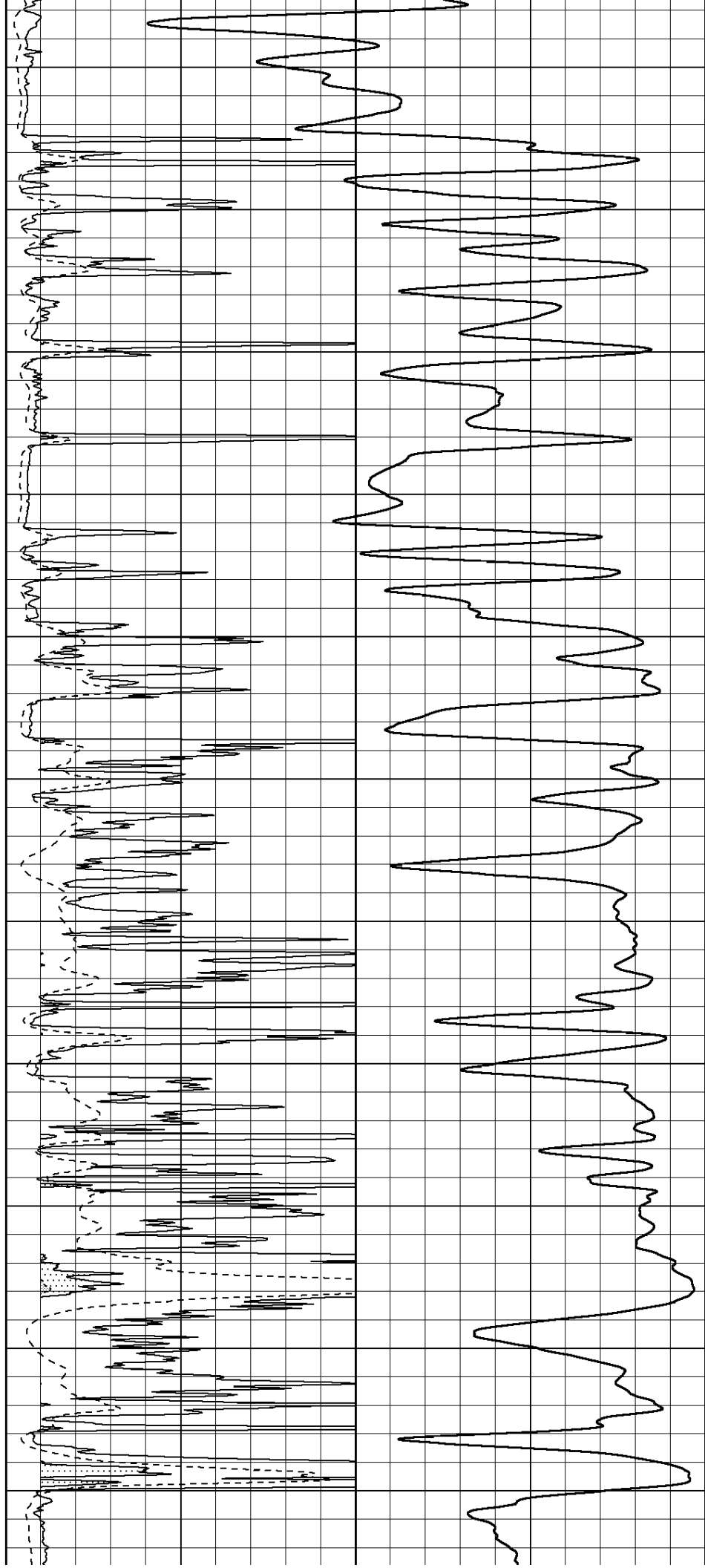
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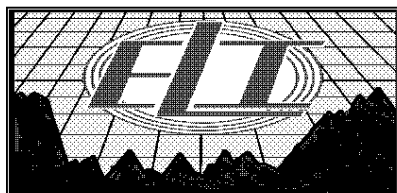
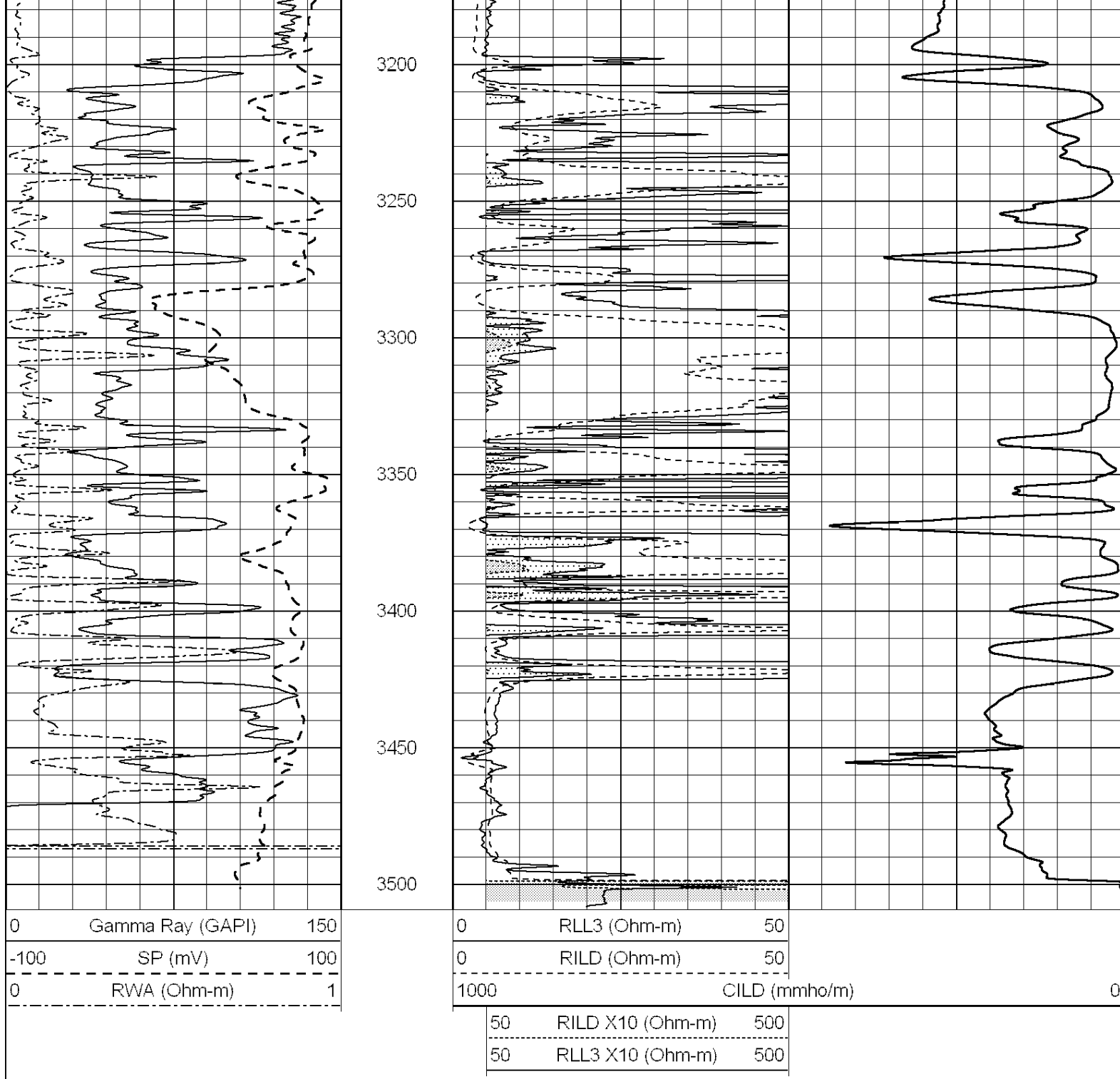
3000

3050

3100

3150

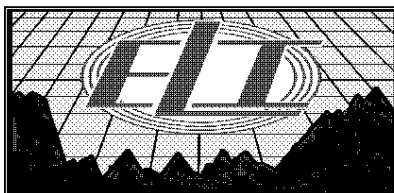
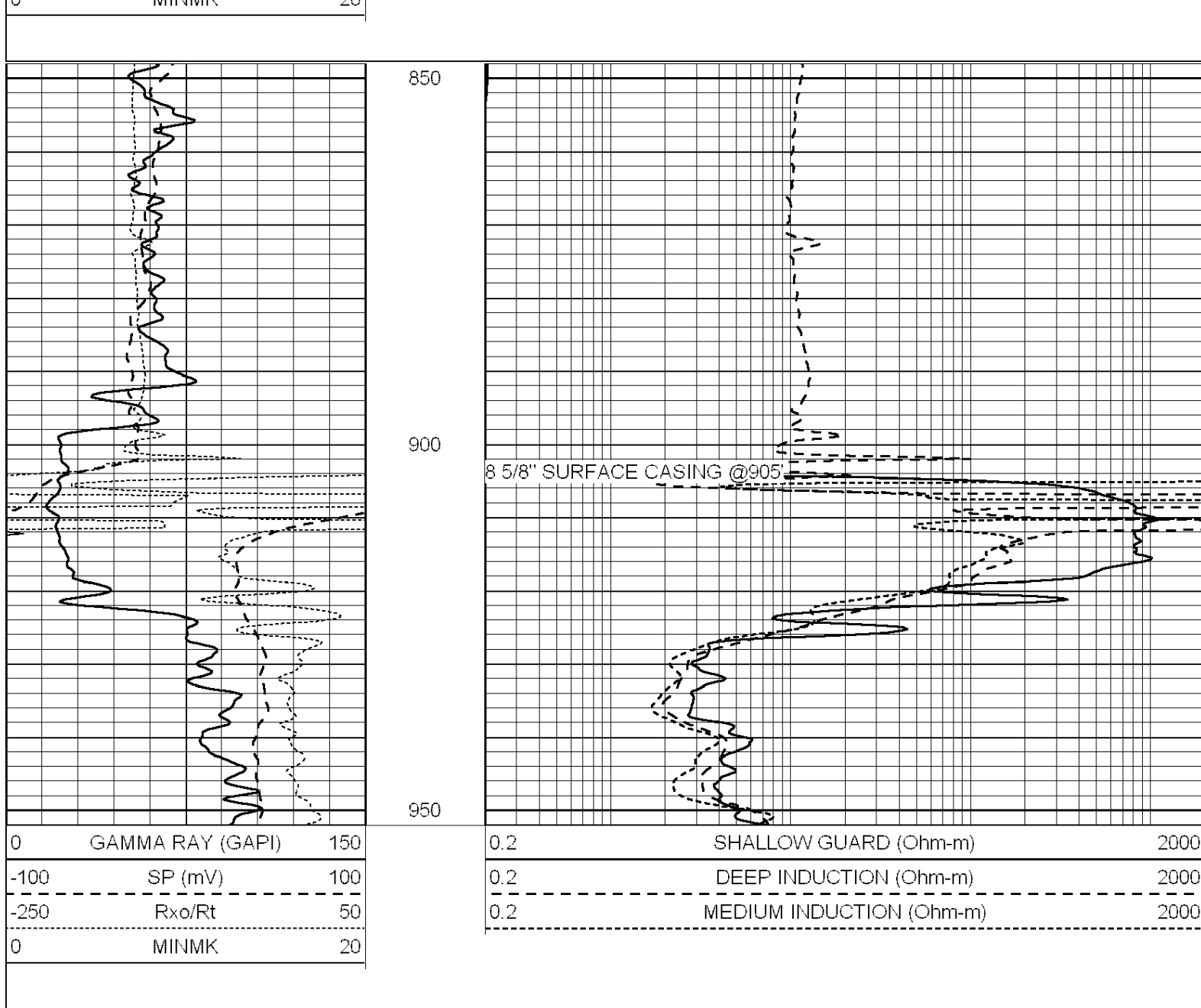




ANHYDRITE

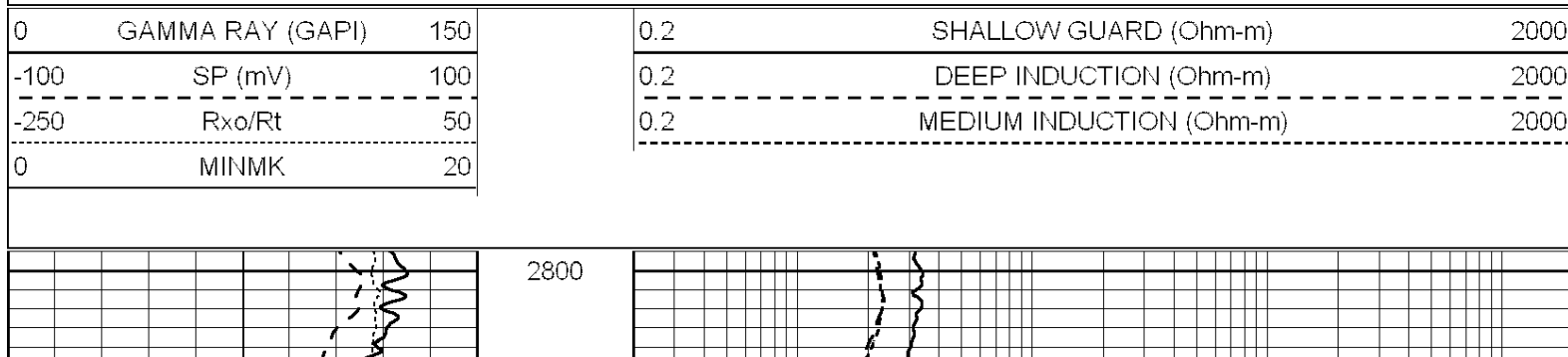
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 Presentation Format: _dil
 Dataset Creation: Thu Jul 14 12:37:51 2016 by Calc SOC 120430
 Charted by: Depth in Feet scaled 1:240

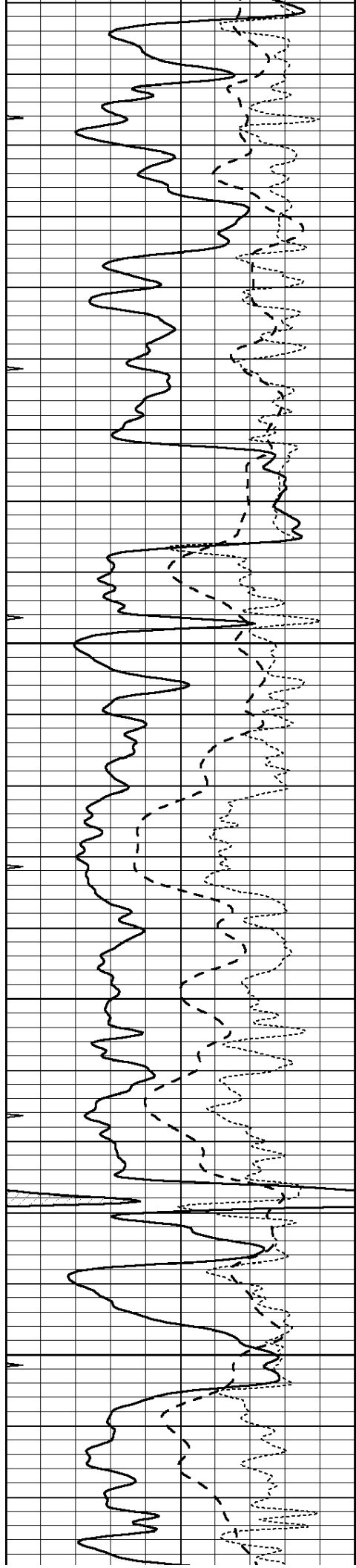
0	GAMMA RAY (GAPI)	150	0.2	SHALLOW GUARD (Ohm-m)	2000
-100	SP (mV)	100	0.2	DEEP INDUCTION (Ohm-m)	2000
-250	Rxo/Rt	50	0.2	MEDIUM INDUCTION (Ohm-m)	2000
0	MINIMUM	20			



MAIN SECTION

Database File: 30753ddn.db
 Dataset Pathname: pass3.6
 Presentation Format: _dil
 Dataset Creation: Thu Jul 14 12:37:28 2016 by Calc SOC 120430
 Charted by: Depth in Feet scaled 1:240



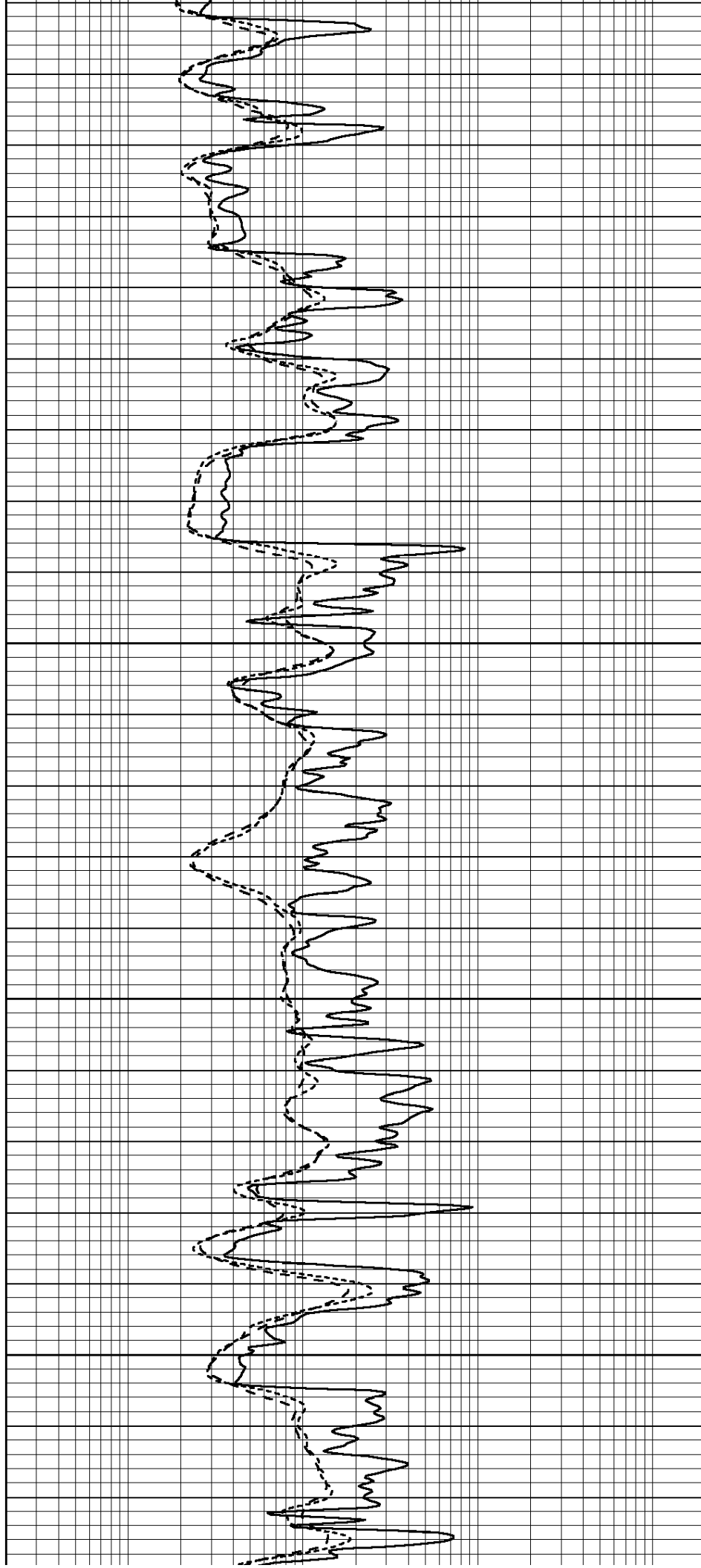


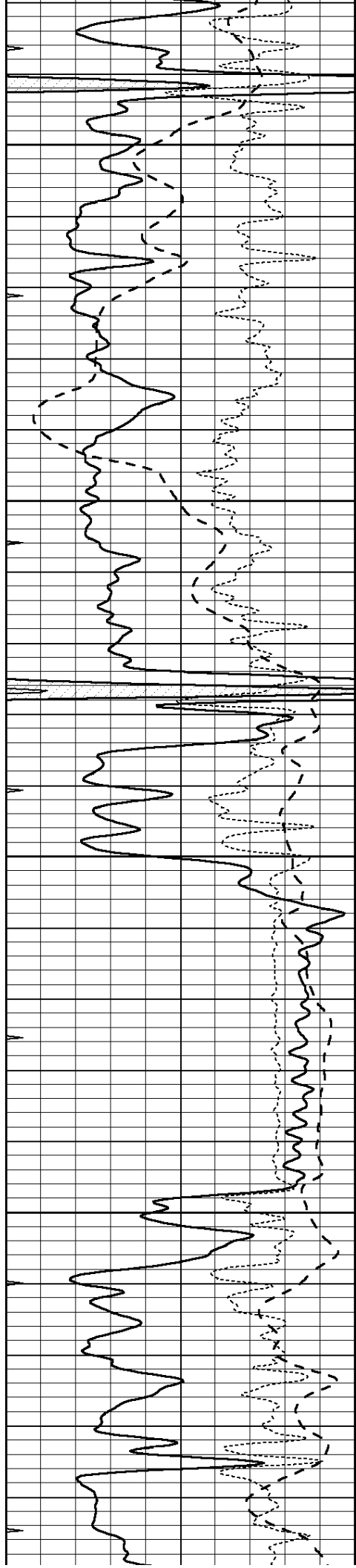
2850

2900

2950

3000





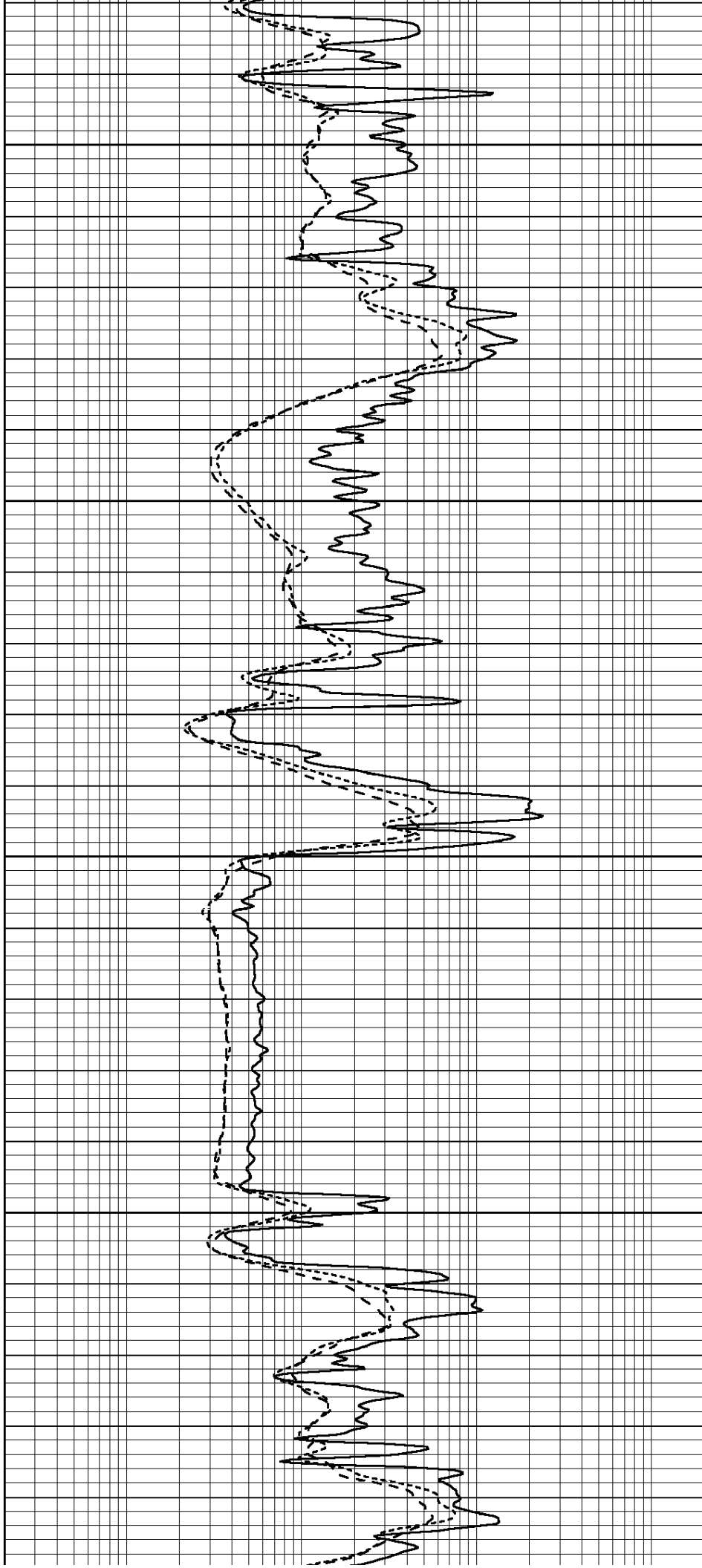
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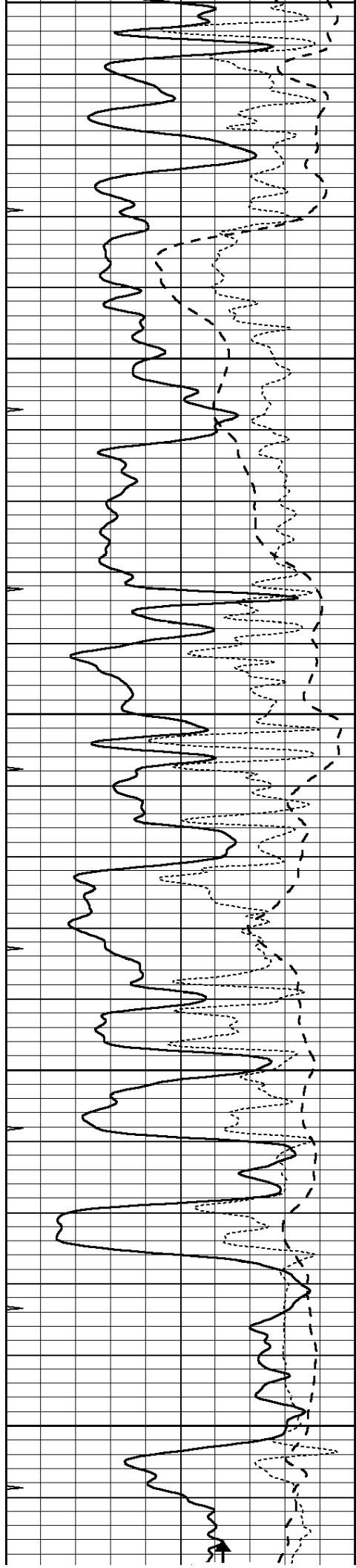
3100

3150

3200

3250





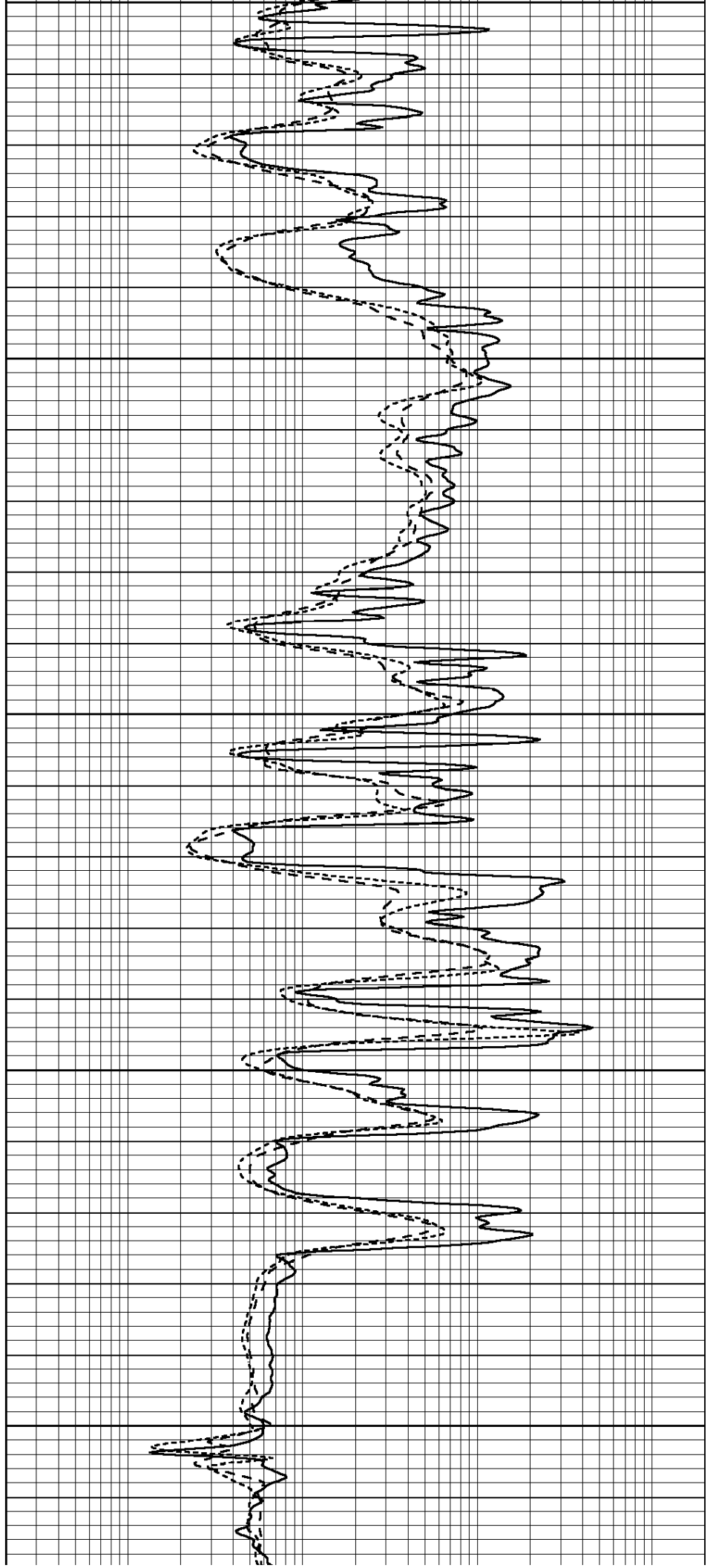
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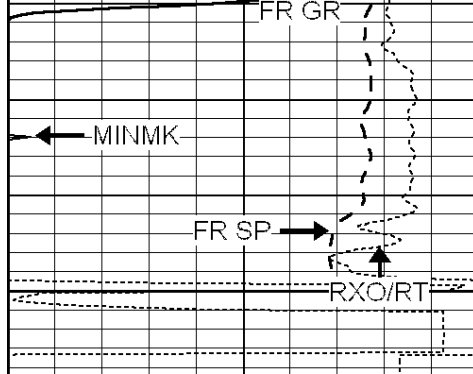
3300

3350

3400

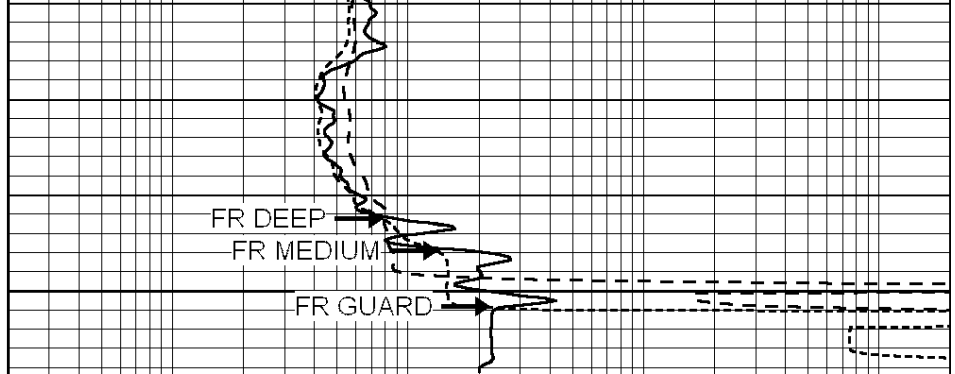
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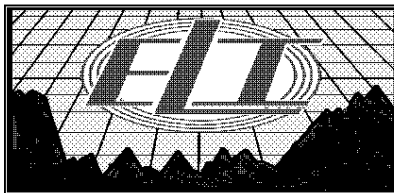


0	GAMMA RAY (GAPI)	150
-100	SP (mV)	100
-250	Rxo/Rt	50
0	MINMK	20

3500
LTD 3504



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

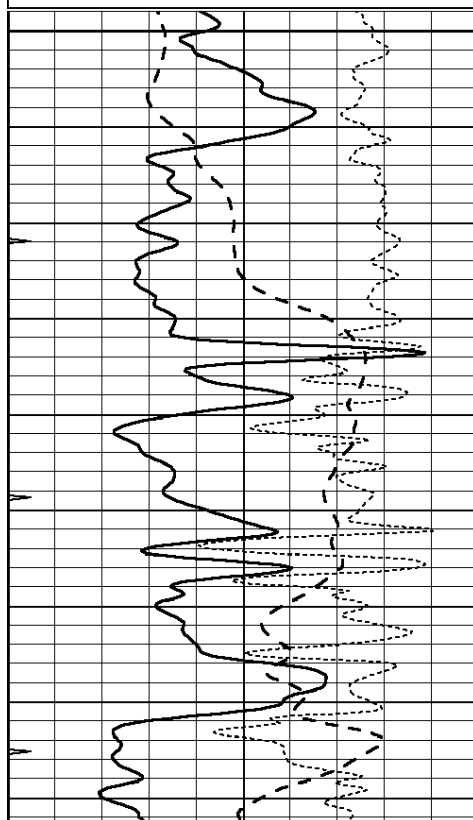


REPEAT SECTION

Database File: 30753ddn.db
 Dataset Pathname: pass2.2
 Presentation Format: _dil
 Dataset Creation: Thu Jul 14 11:39:23 2016 by Calc SOC 120430
 Charted by: Depth in Feet scaled 1:240

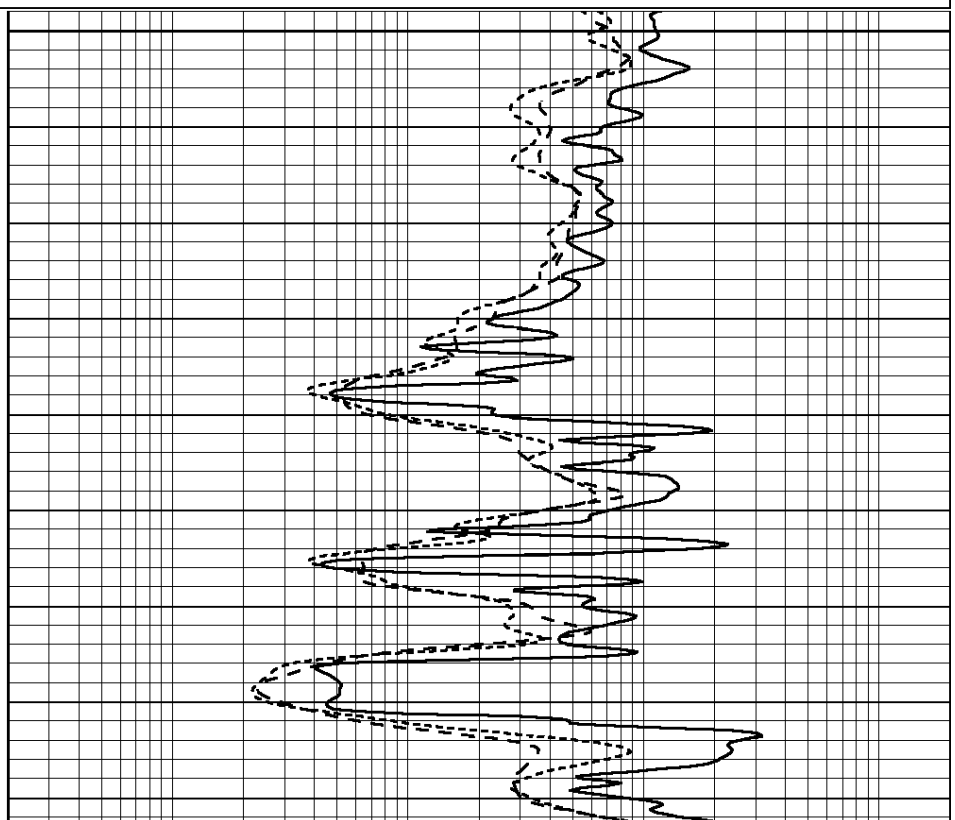
0	GAMMA RAY (GAPI)	150
-100	SP (mV)	100
-250	Rxo/Rt	50
0	MINMK	20

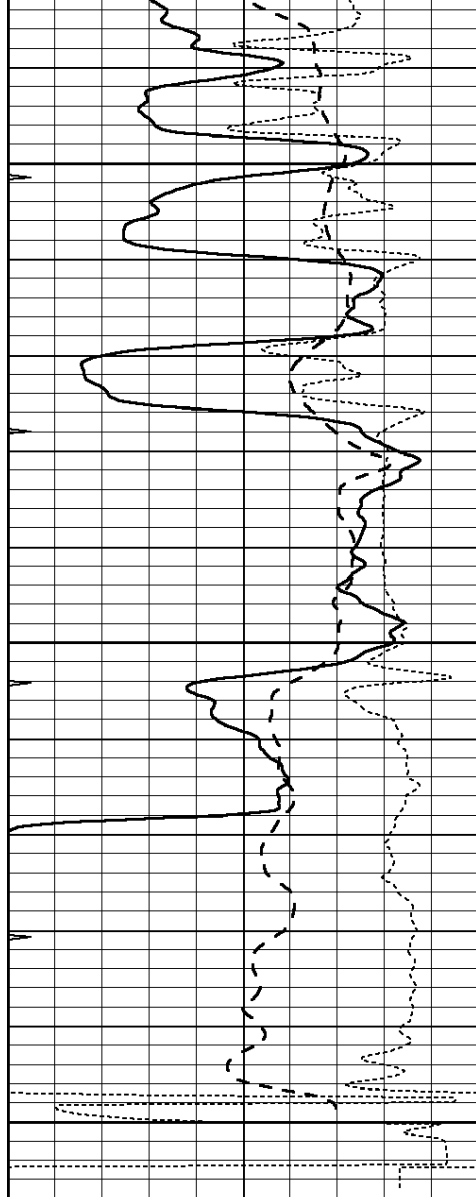
0.2	SHALLOW GUARD (Ohm-m)	2000
0.2	DEEP INDUCTION (Ohm-m)	2000
0.2	MEDIUM INDUCTION (Ohm-m)	2000



3300

3350



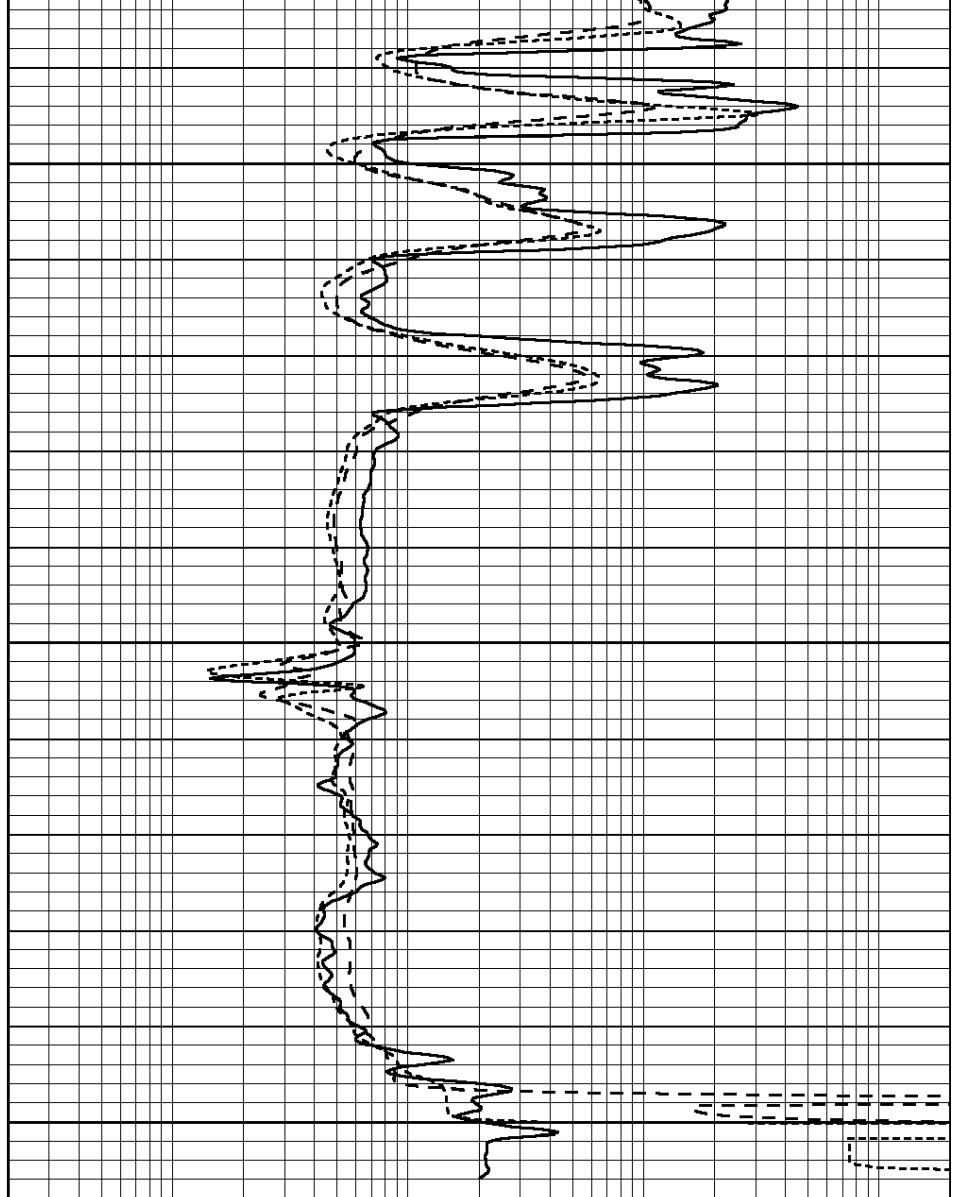


3400

3450

3500

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

Calibration Report

Database File: 30753ddn.db
 Dataset Pathname: pass3.6
 Dataset Creation: Thu Jul 14 12:37:28 2016 by Calc SOC 120430

Dual Induction Calibration Report

Serial-Model: PROBE7-DILG
 Surface Cal Performed: Wed Jul 13 10:13:32 2016
 Downhole Cal Performed: Mon Jul 28 12:02:56 2008
 After Survey Verification Performed: Mon Jul 28 12:02:56 2008

Surface Calibration

Loop:	Readings			References			Results	
	Air	Loop		Air	Loop		m	b
Deep	-0.014	0.629	V	0.000	400.000	mmho/m	625.000	-10.000
Medium	0.039	0.728	V	0.000	464.000	mmho/m	675.000	-50.000

Internal:	Zero	Cal		Zero	Cal		m	b
Deep	0.011	0.610	V	0.000	400.000	mmho/m	667.135	-7.256
Medium	0.005	0.712	V	0.000	464.000	mmho/m	655.677	-3.102
Downhole Calibration								
	Readings			References			Results	
	Zero	Cal		Zero	Cal		m'	b'
Deep	0.000	0.000	mmho/m	14.508	388.384	mmho/m	1.000	0.000
Medium	0.000	0.000	mmho/m	166.367	504.400	mmho/m	1.000	0.000
LL3		7.500	V		1400.000	Ohm-m		
		0.000	V		20.000	Ohm-m		
		-7.200	V		4000.000	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		
Litho Density Calibration Report								
Serial: 004N Model: PRB								
Master Calibration			Performed Fri May 30 11:01:00 2014					
	Background	Magnesium		Aluminum		Sandstone		
Window 1	1378.8	10804.6		3492.0		12453.4		cps
Window 2	1262.4	9313.5		3076.7		10594.7		cps
Window 3	1077.6	5668.7		2076.0		6314.8		cps
Window 4	306.4	313.0		306.4		315.6		cps
Long Space	0.0	8051.0		1814.3		9332.3		cps
Short Space	1.9	1706.1		1146.0		1707.6		cps
Rho		1.7100		2.5900		1.3800		g/cc
Pe		0.0000		2.5700		1.5500		
Rib Angle	: 45.0	Rib Slope	: 1.002	Density/Spine Ratio			: 0.571	
Spine Angle	: 75.0	Spine Slope	: 3.745	Spine Intercept			: -18.9	
Before Survey Verification			Performed Wed Dec 31 18:00:00 1969					
Window 1	0.0	0.0		0.0		0.0		cps
Window 2	0.0	0.0		0.0		0.0		cps
Window 3	0.0	0.0		0.0		0.0		cps
Window 4	0.0	0.0		0.0		0.0		cps
Long Space	0.0	0.0		0.0		0.0		cps
Short Space	0.0	0.0		0.0		0.0		cps
Measured Rho		0.0000		0.0000		0.0000		g/cc
Measured Correction		0.0000		0.0000		0.0000		g/cc
Measured Pe				0.0000		0.0000		
After Survey Verification			Performed Wed Dec 31 18:00:00 1969					
Window 1	0.0	0.0		0.0		0.0		cps
Window 2	0.0	0.0		0.0		0.0		cps
Window 3	0.0	0.0		0.0		0.0		cps
Window 4	0.0	0.0		0.0		0.0		cps

Window 4	0.0	0.0	0.0	0.0	cps
Long Space	0.0	0.0	0.0	0.0	cps
Short Space	0.0	0.0	0.0	0.0	cps
Measured Rho		0.0000	0.0000	0.0000	g/cc
Measured Correction		0.0000	0.0000	0.0000	g/cc
Measured Pe			0.0000	0.0000	
Compensated Neutron Calibration Report					
Serial Number:		070808			
Tool Model:		Probe			
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:	070558				
Tool Model:	OPEN_GR				
Performed:	Thu Jul 14 11:01:24 2016				
Calibrator Value:	1.0	GAPI			
Background Reading:	0.0	cps			
Calibrator Reading:	1.0	cps			
Sensitivity:	0.2800	GAPI/cps			