



SUPERIOR
Hays,
Kansas

DUAL INDUCTION LOG

Company TRANS - PACIFIC OIL CORPORATION
Well PETERS "A" UNIT #1-18
Field WILDCAT
County RUSH
State KANSAS

Company TRANS - PACIFIC OIL CORPORATION
Well PETERS "A" UNIT #1-18
Field WILDCAT
County RUSH State KANSAS

Location: API # : 15-165-21986-0000

2740' FSL & 2740' FEL

SEC 18 TWP 18S RGE 18W

Permanent Datum GROUND LEVEL Elevation 2063
Log Measured From KELLY BUSHING 10' A.G.L.
Drilling Measured From KELLY BUSHING

Other Services
CDL/CNL
RAG/ SONIC
Elevation
K.B. 2073
D.F. 2071
G.L. 2063

Date 8/20/12

Run Number ONE

Depth Driller 3940

Depth Logger 3941

Bottom Logged Interval 3939

Top Log Interval 00

Casing Driller 8 5/8" @ 946'

Casing Logger 948

Bit Size 7 7/8"

Type Fluid in Hole CHEMICAL MUD

Density / Viscosity 9.5/54

pH / Fluid Loss 10.0/11.2

Source of Sample FLOWLINE

Rm @ Meas. Temp .700 @ 90F

Rmt @ Meas. Temp .525 @ 90F

Rmc @ Meas. Temp .840 @ 90F

Source of Rmt / Rmc MEASUREMENT

Rm @ BHT .543 @ 116F

Time Circulation Stopped 2.5 HOURS

Time Logger on Bottom 10:00 P.M.

Maximum Recorded Temperature 116F

Equipment Number 4010

Location HAYS, KANSAS

Recorded By JEFF LUEBBERS

Witnessed By MAX LOVELY

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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 SUPERIOR WELL SERVICE HAYS, KANSAS (785) 628-6395
DIRECTIONS
RUSH CENTER, KS., 3W. ON HWY 96 TO "RD. 220", 1 1/2N., E. INTO

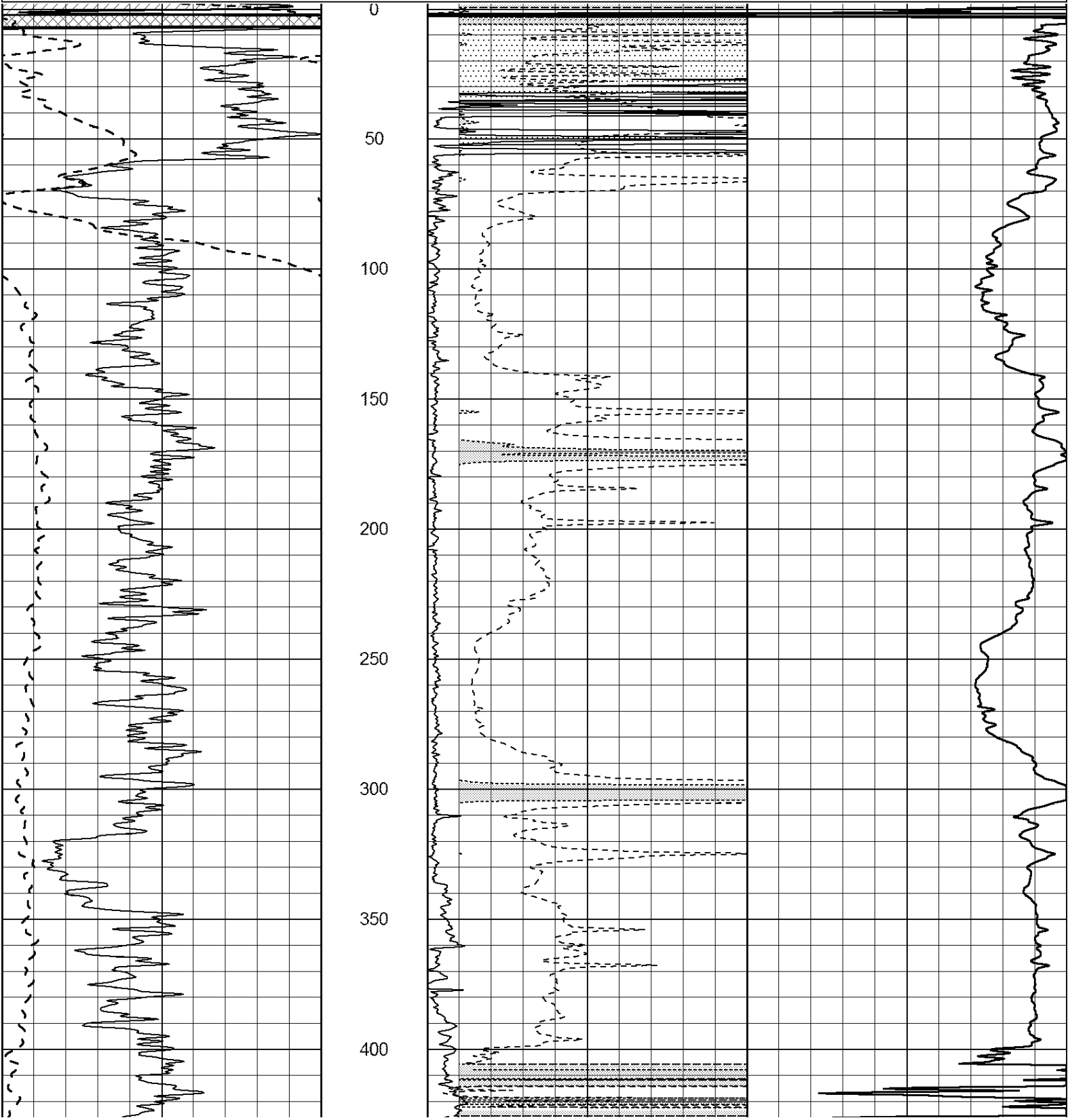


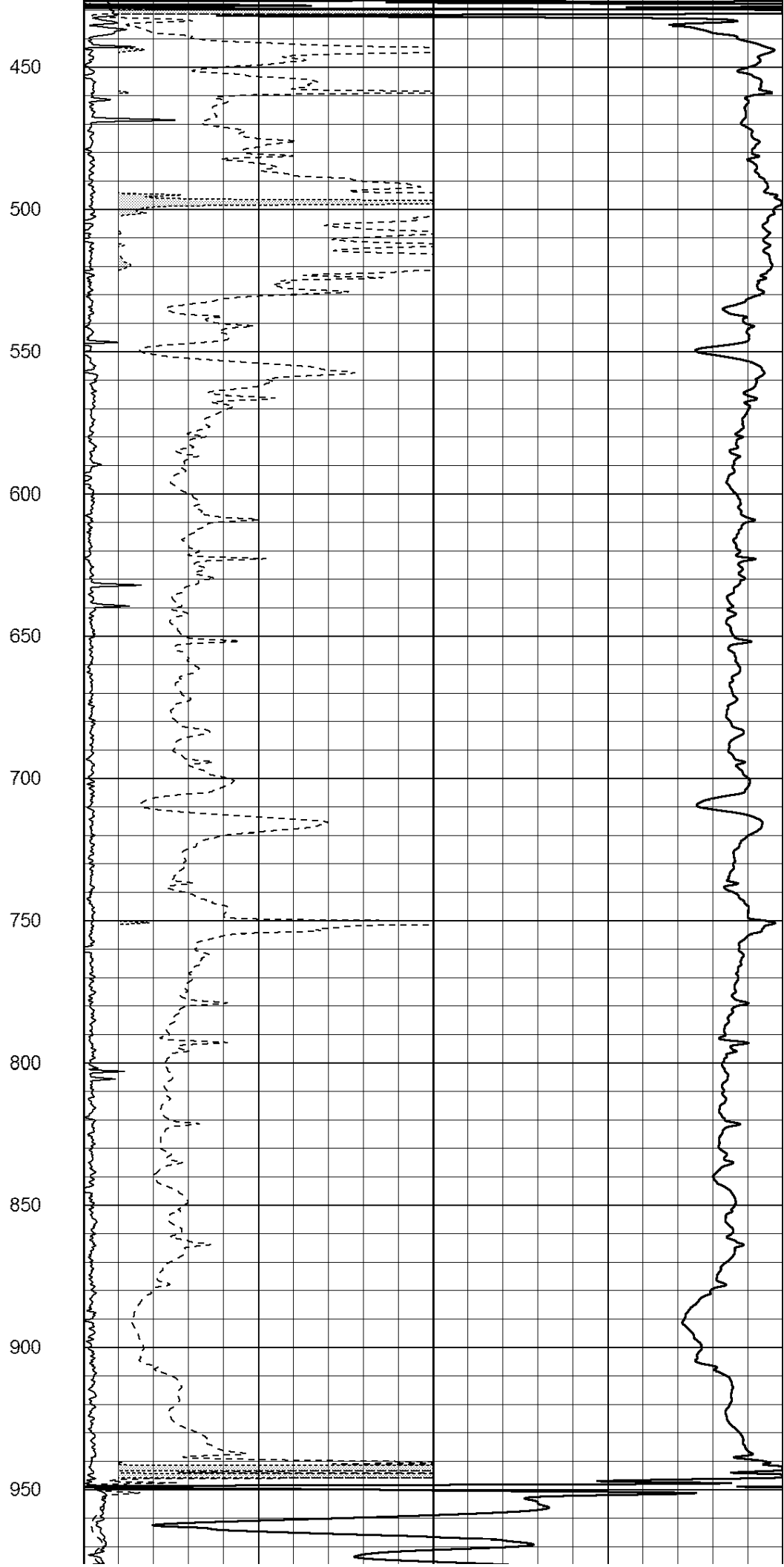
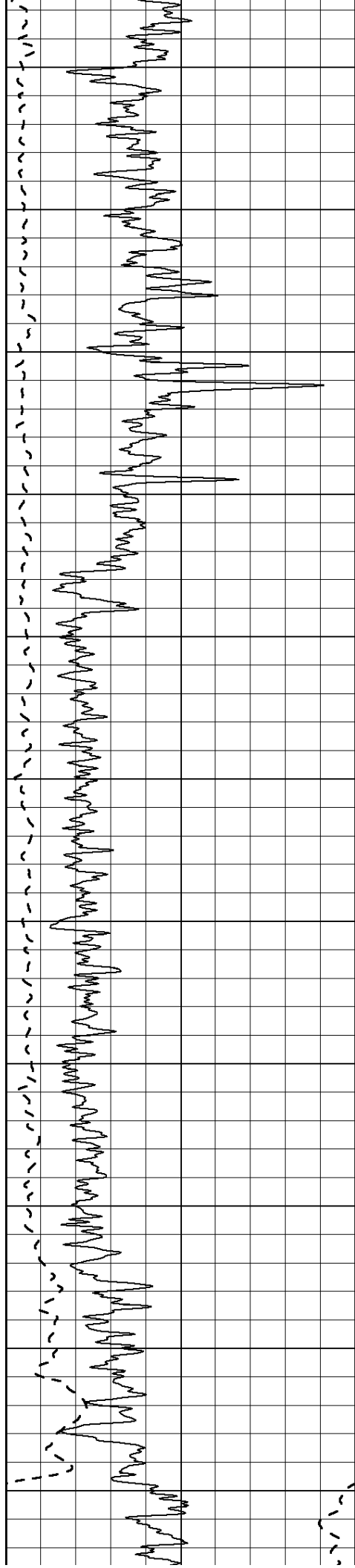
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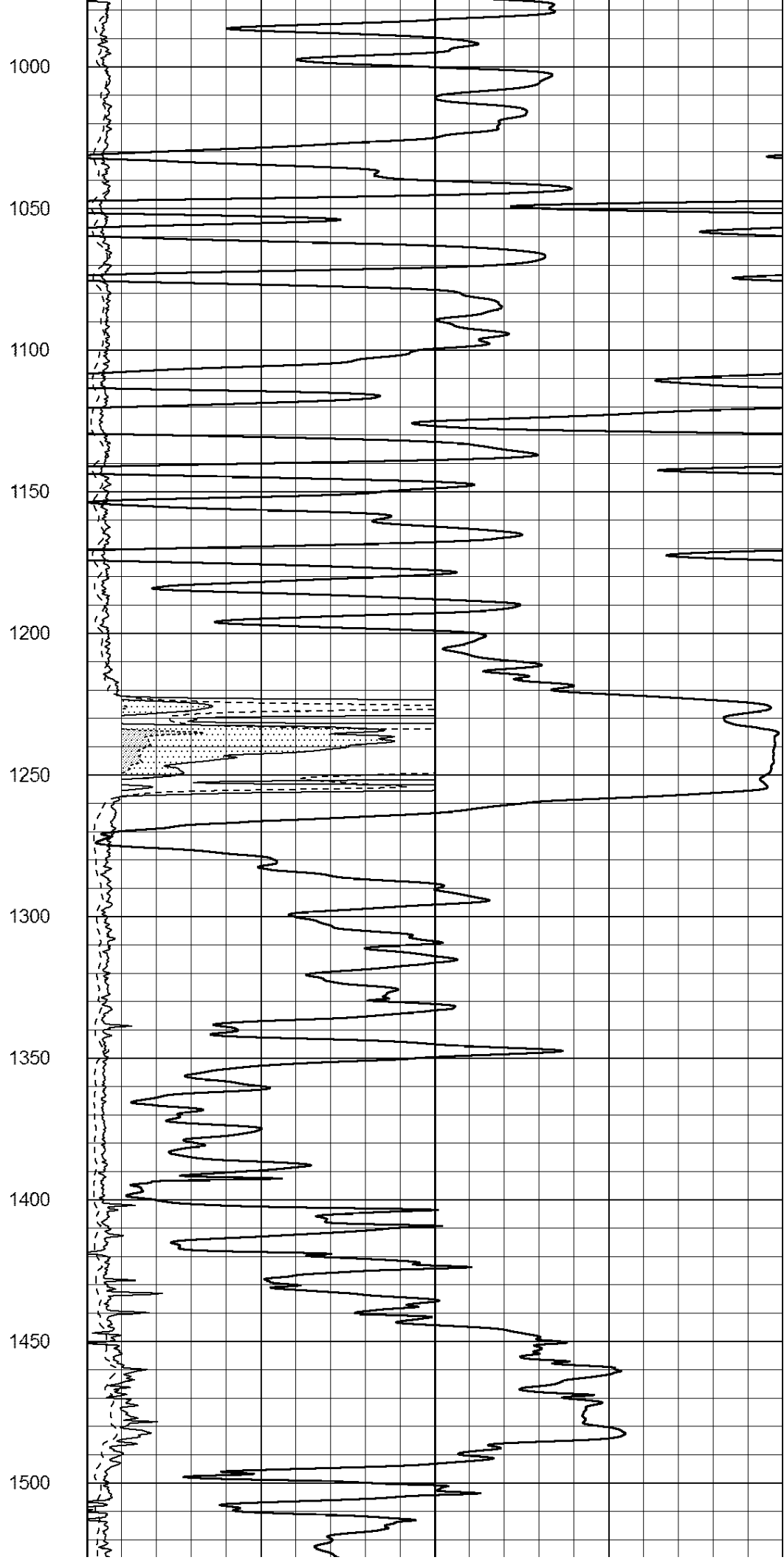
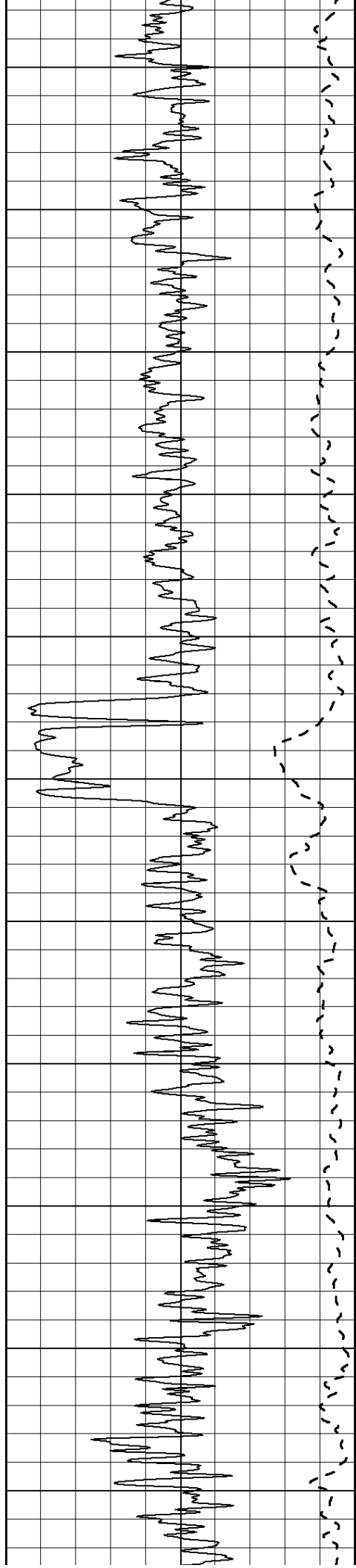
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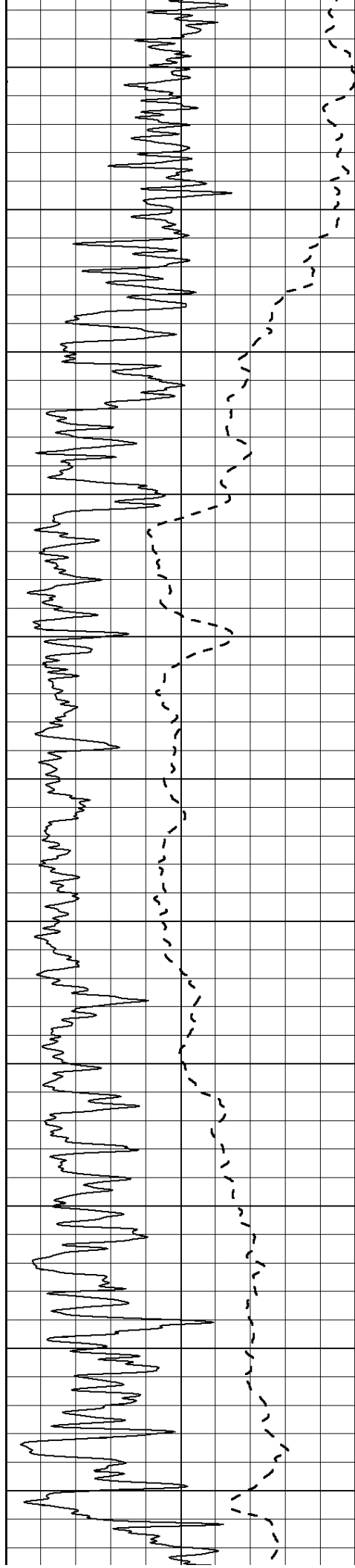
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Dataset Pathname: pass3.4
Presentation Format: dil2
Dataset Creation: Mon Aug 20 23:12:48 2012 by Calc Open-Cased 110302
Charted by: Depth in Feet scaled 1:600

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









1550

1600

1650

1700

1750

1800

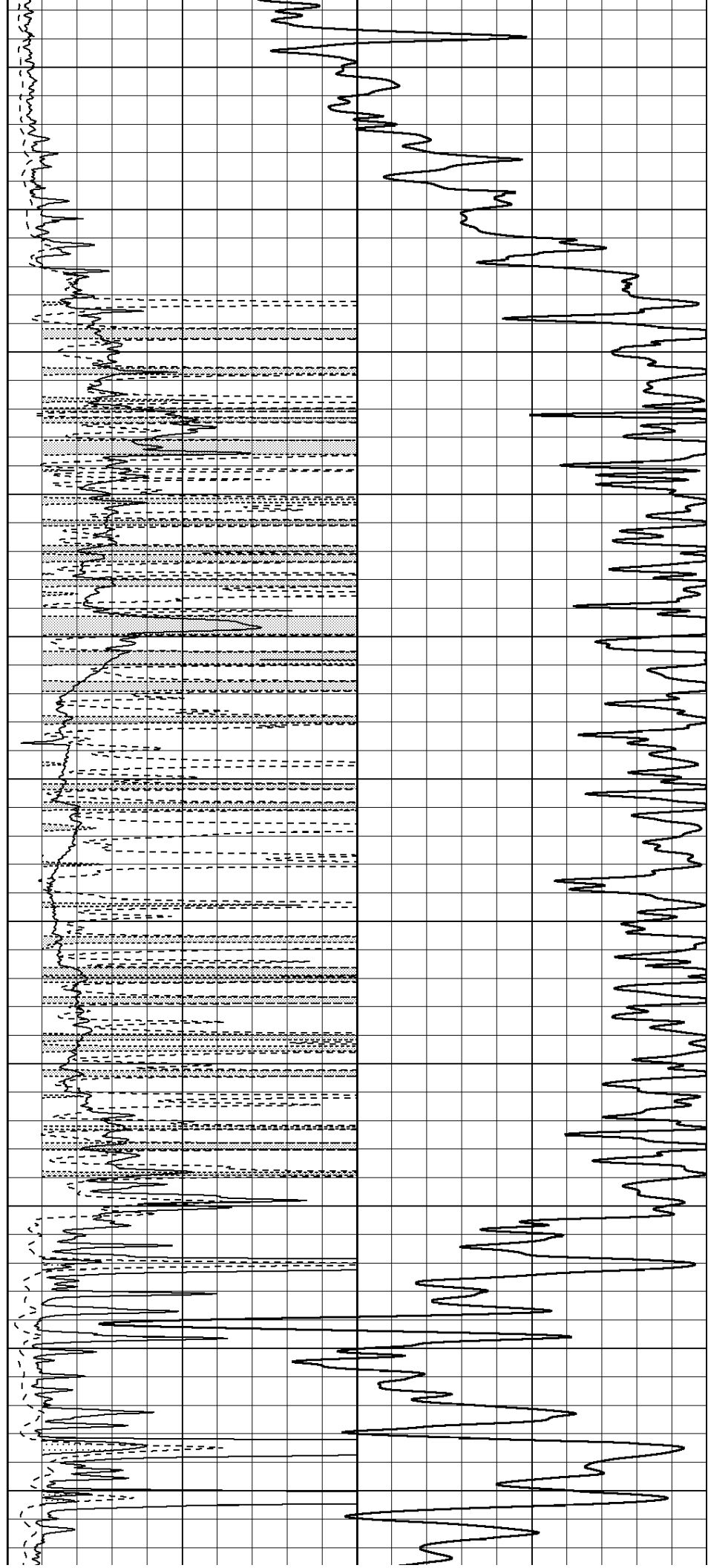
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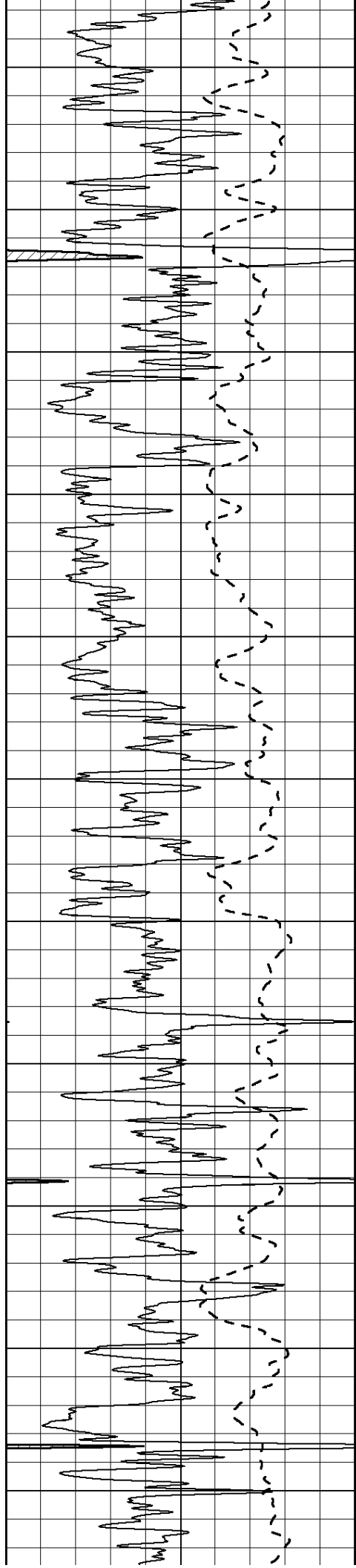
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1950

2000

2050





2100

2150

2200

2250

2300

2350

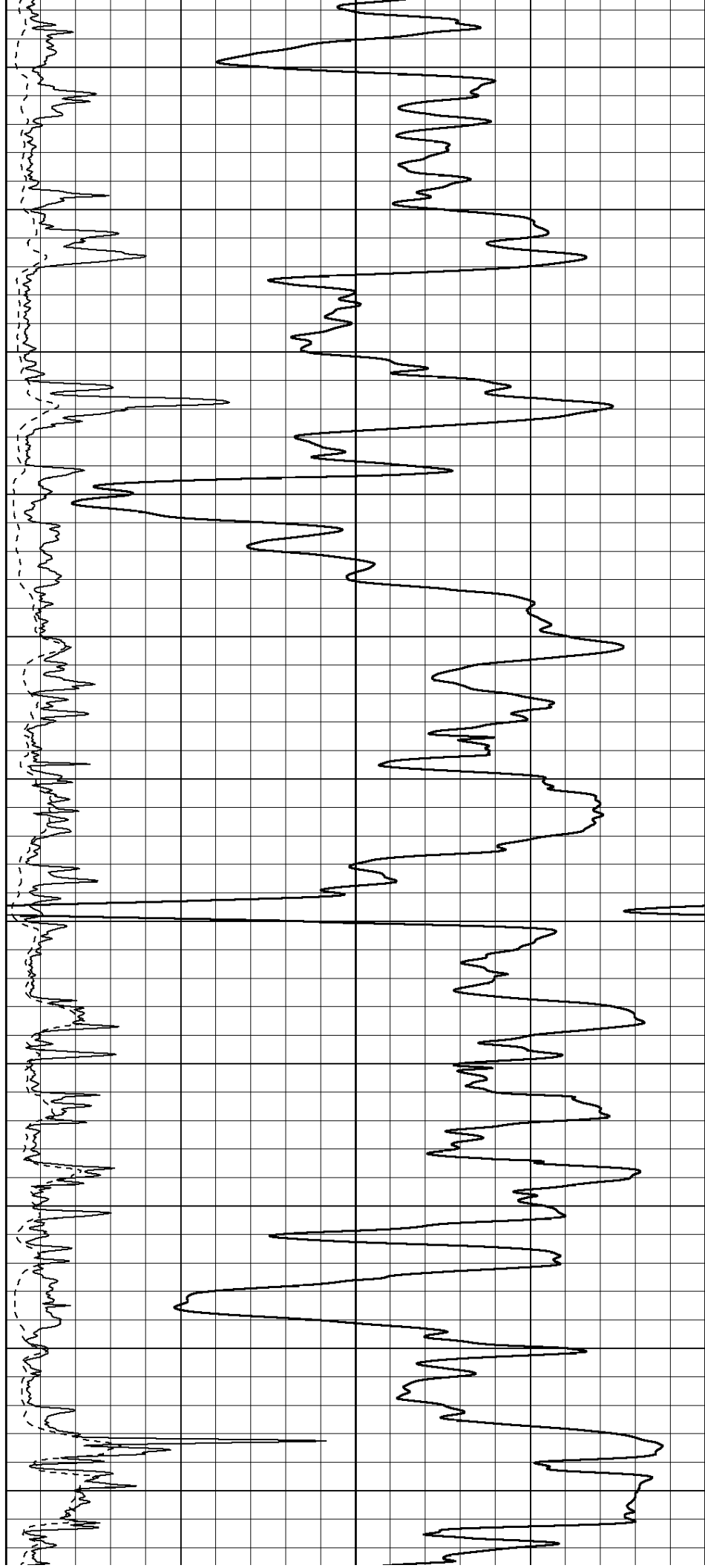
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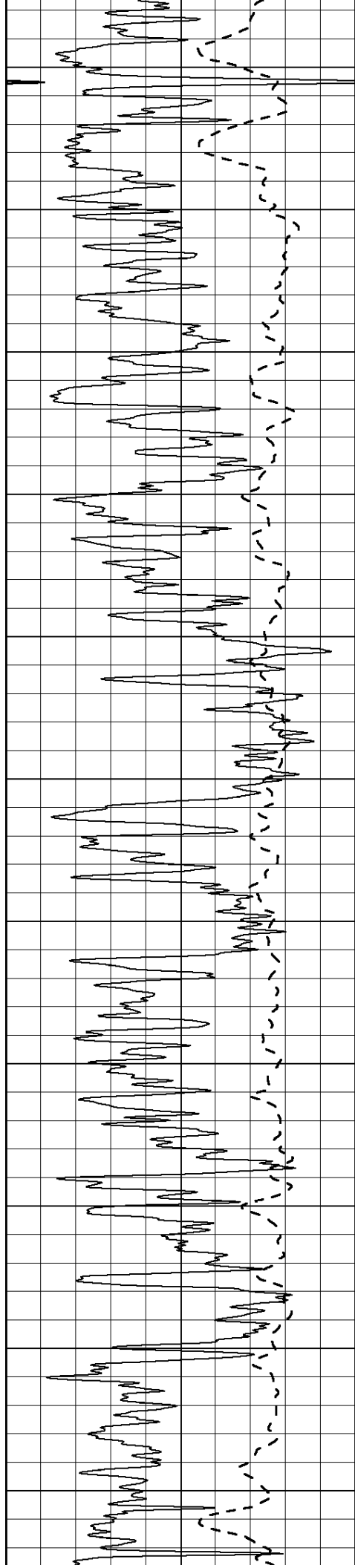
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2500

2550

2600





2650

2700

2750

2800

2850

2900

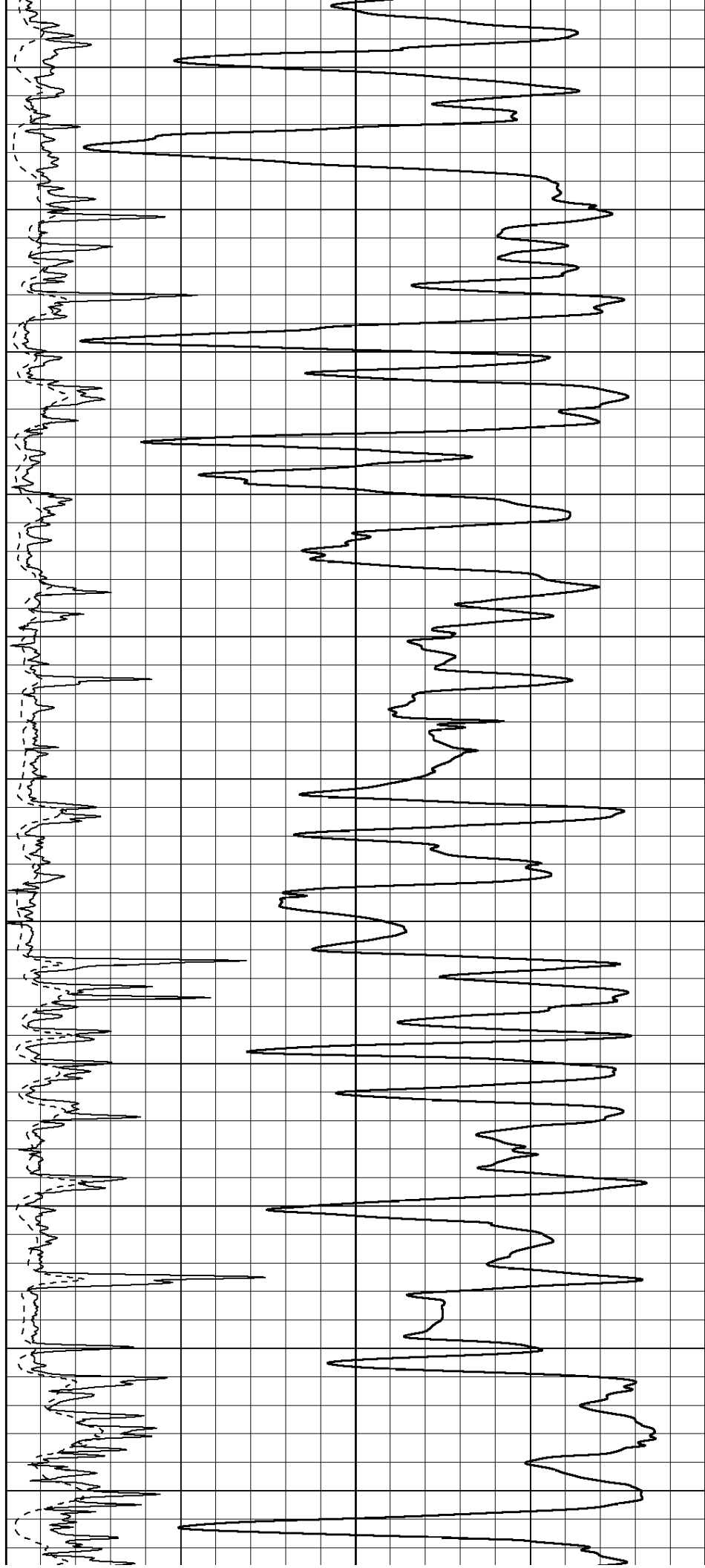
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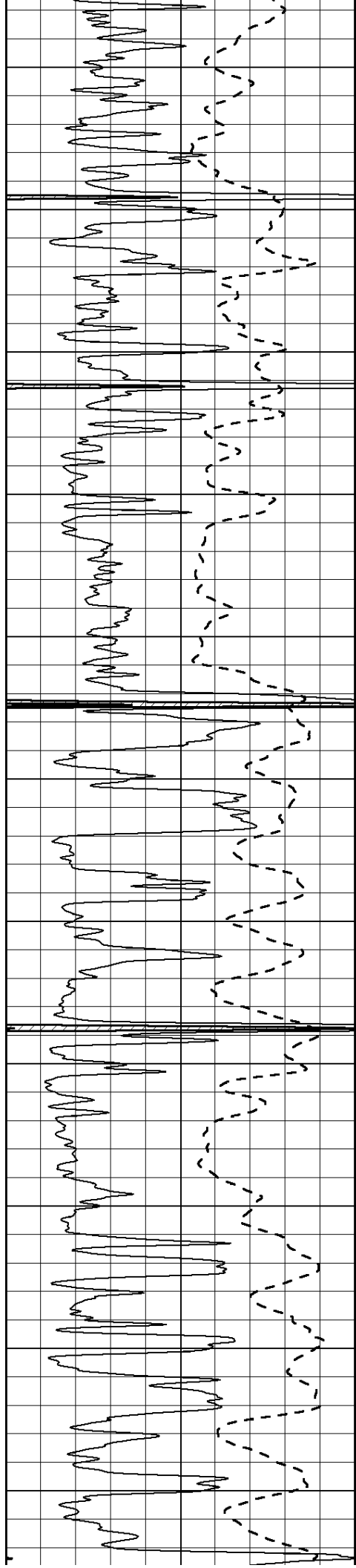
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3050

3100

3150





3200

3250

3300

3350

3400

3450

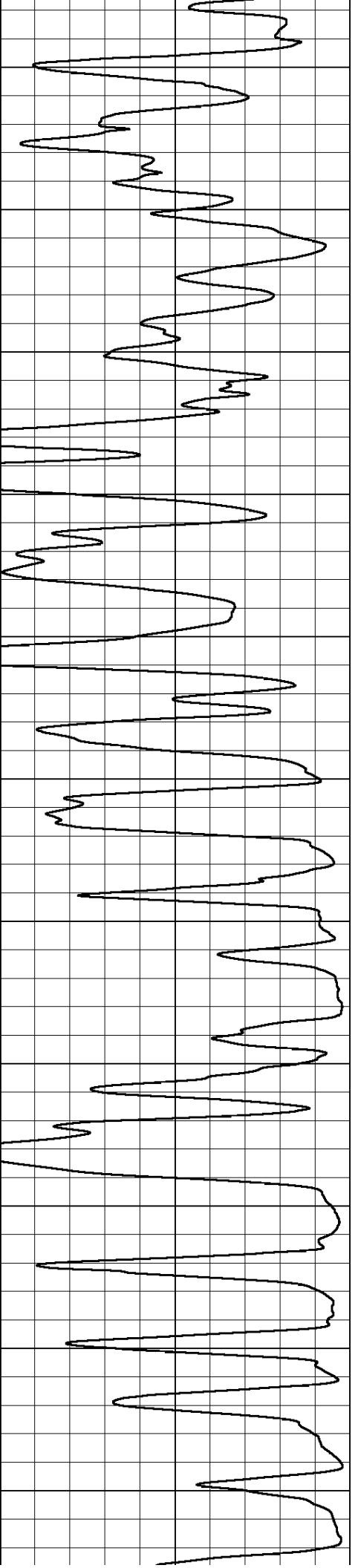
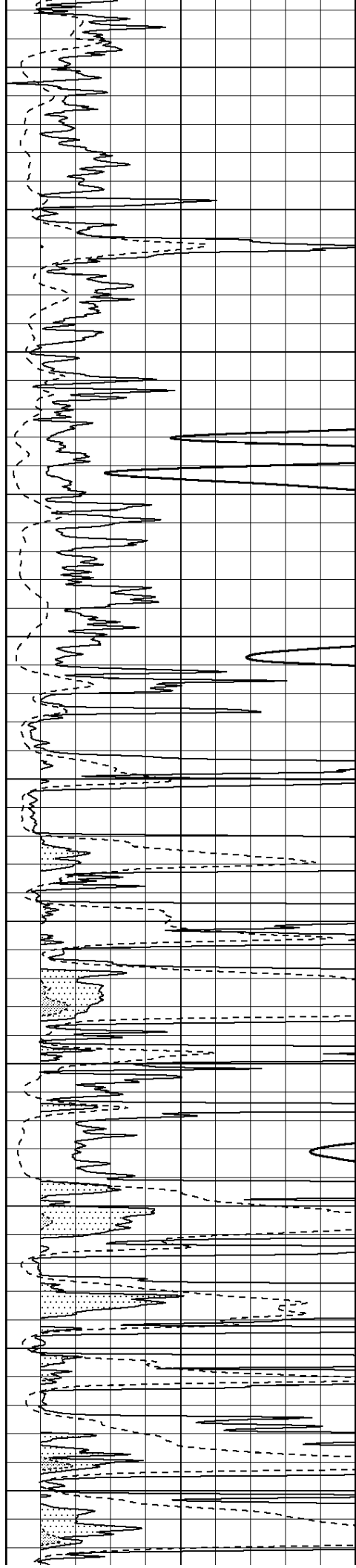
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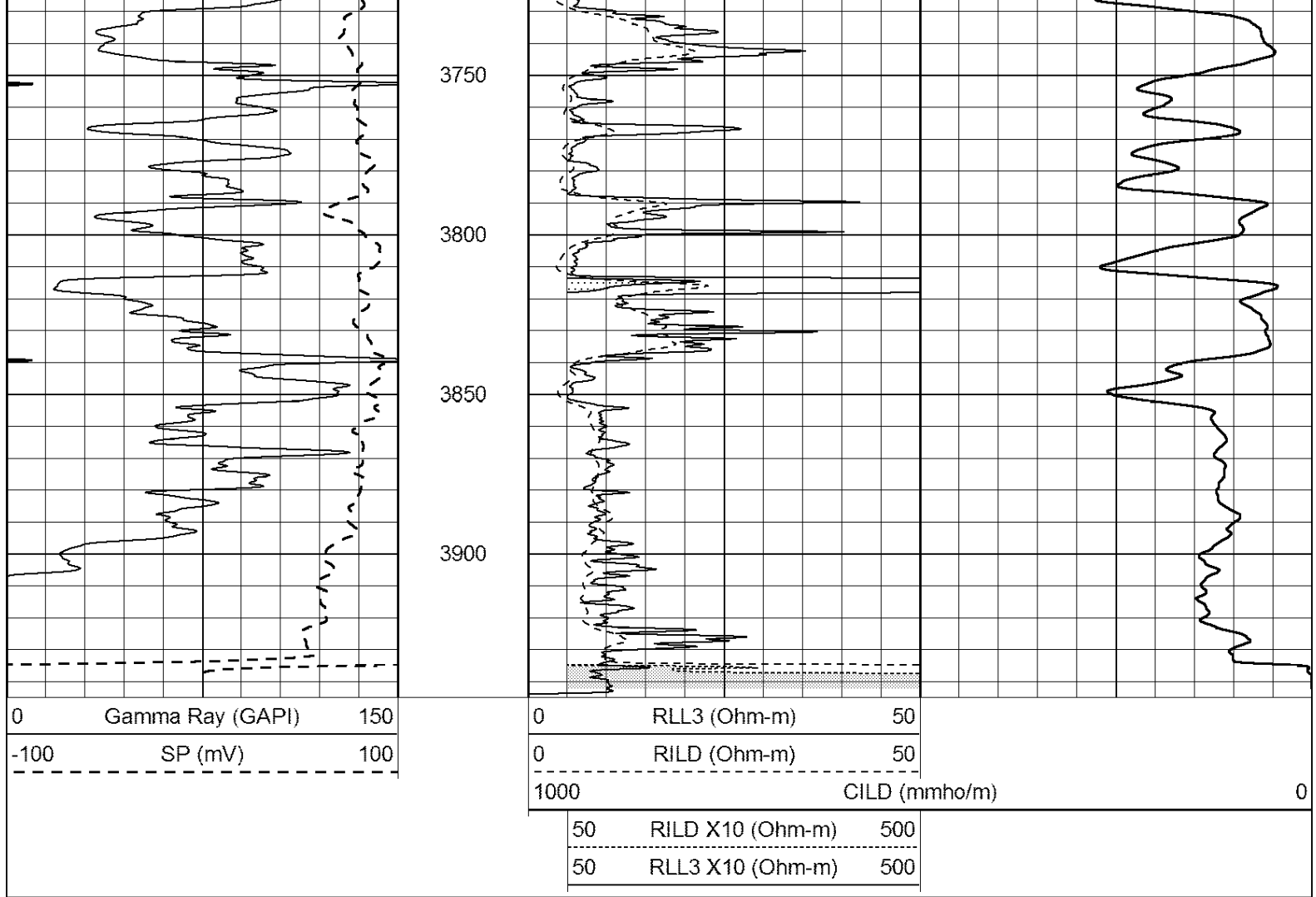
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3600

3650

3700



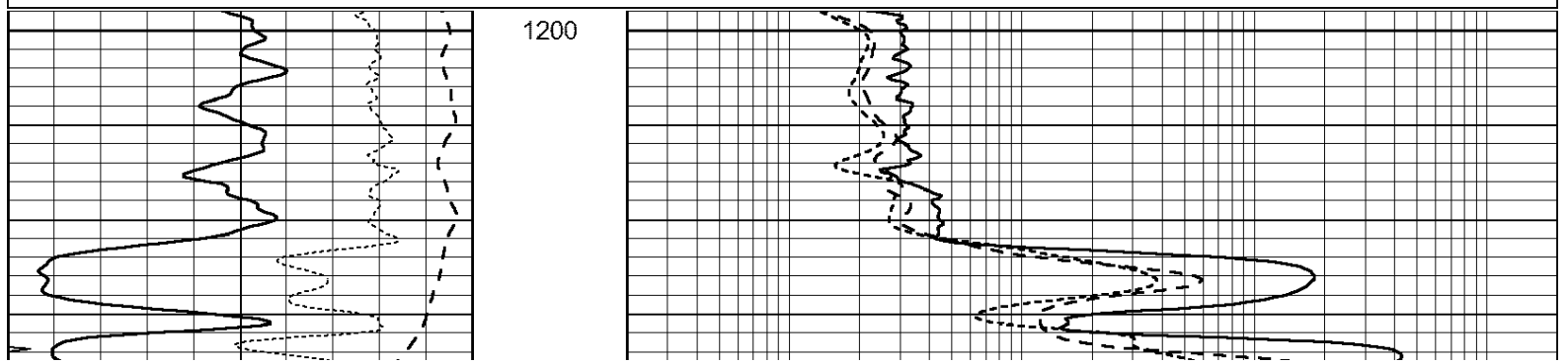


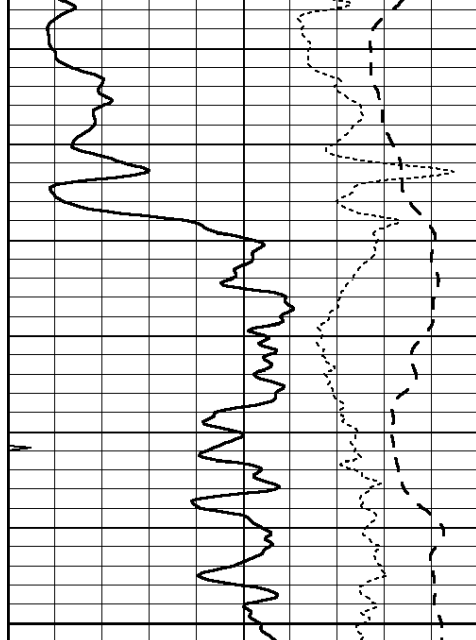
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ANHYDRITE

Database File: 409505rag.db
 Dataset Pathname: pass3.5
 Presentation Format: _dil
 Dataset Creation: Mon Aug 20 23:13:48 2012 by Calc Open-Cased 110302
 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	MINMK	20			

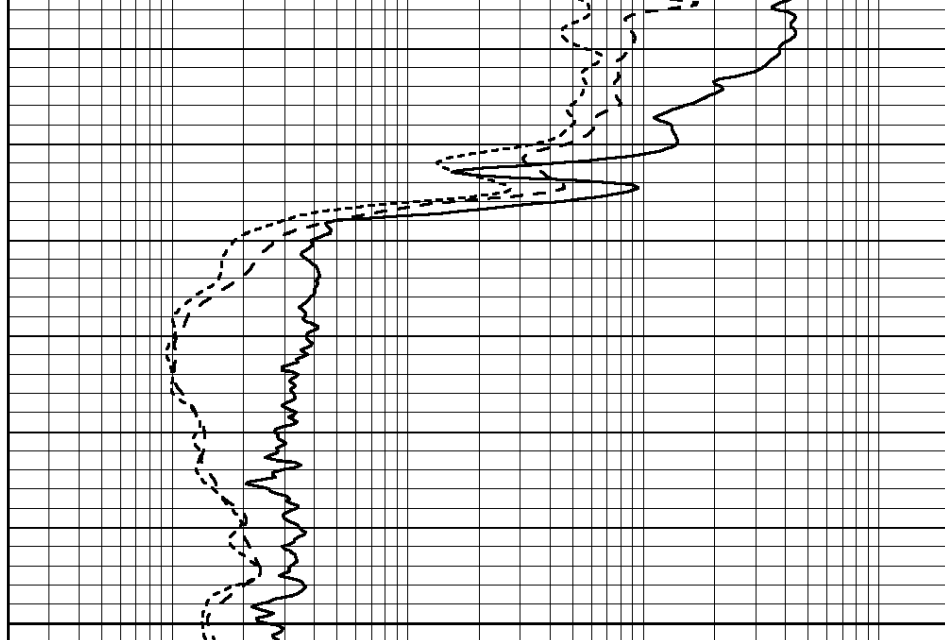




1250

1300

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



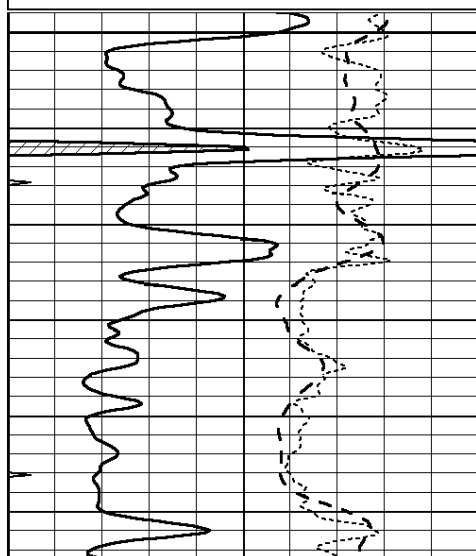
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MAIN SECTION

Database File: 409505rag.db
Dataset Pathname: pass3.4
Presentation Format: dil
Dataset Creation: Mon Aug 20 23:12:48 2012 by Calc Open-Cased 110302
Charted by: Depth in Feet scaled 1:240

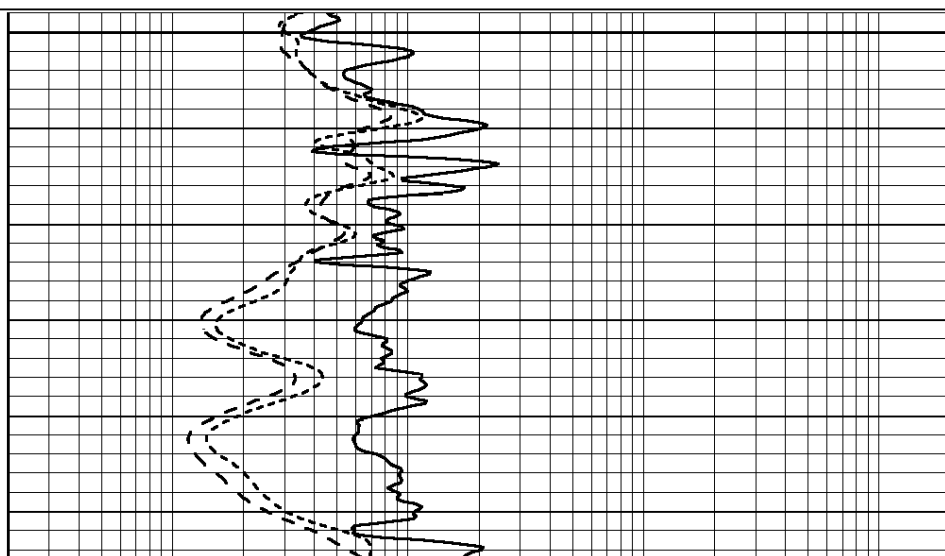
0	GAMMA RAY (GAPI)	150
-100	SP (mV)	100
-250	Rxo/Rt	50
0	MINMK	20

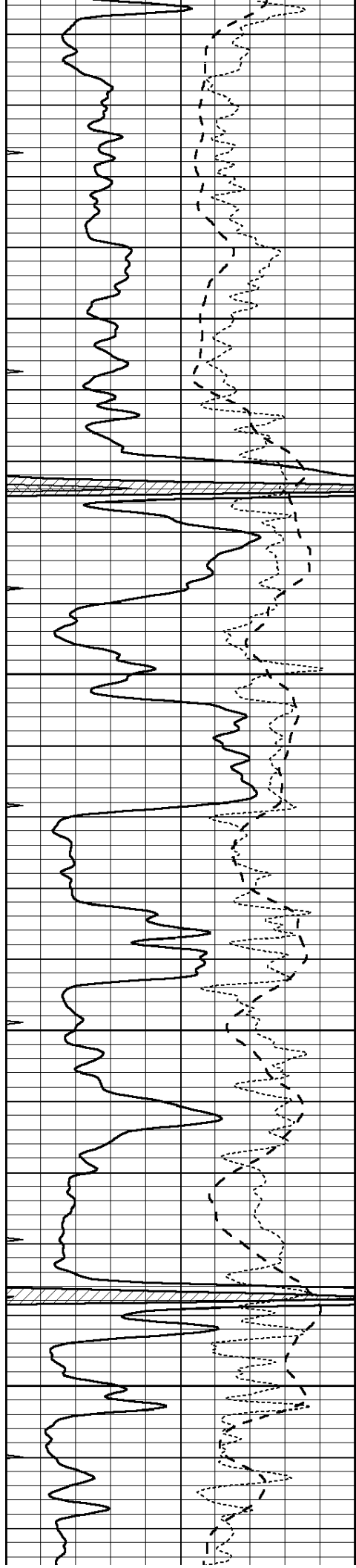
0.2	SHALLOW GUARD (Ohm-m)	2000
0.2	DEEP INDUCTION (Ohm-m)	2000
0.2	MEDIUM INDUCTION (Ohm-m)	2000



3300

3350



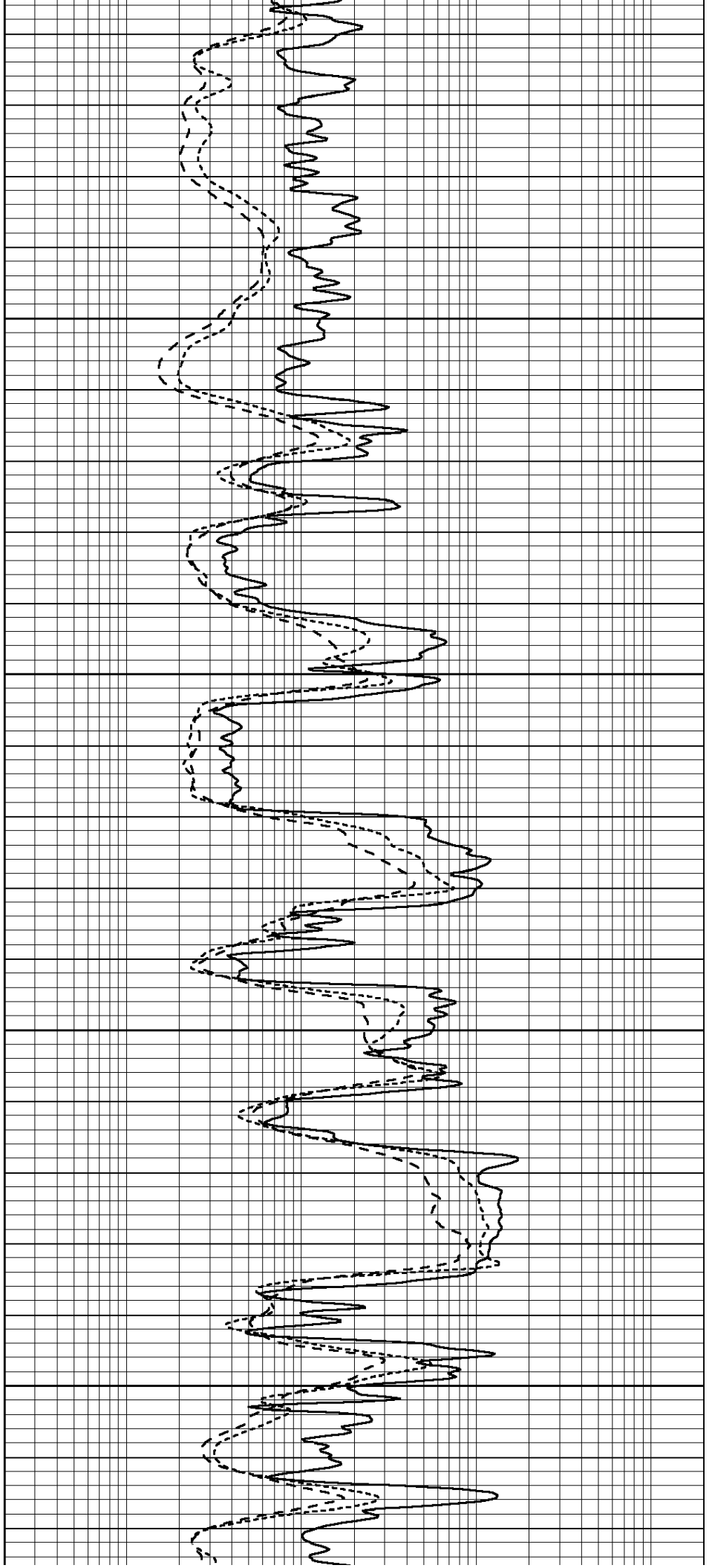


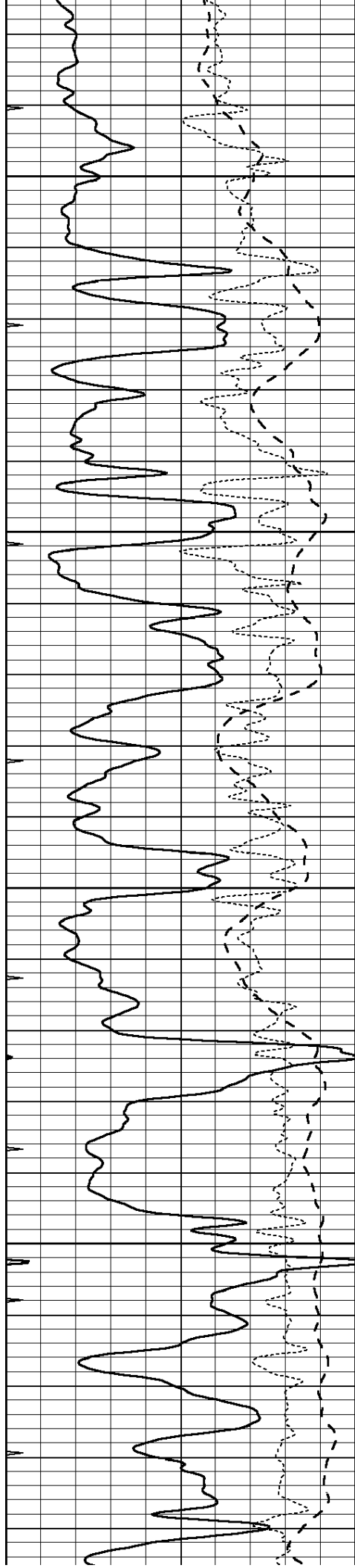
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3450

3500

3550



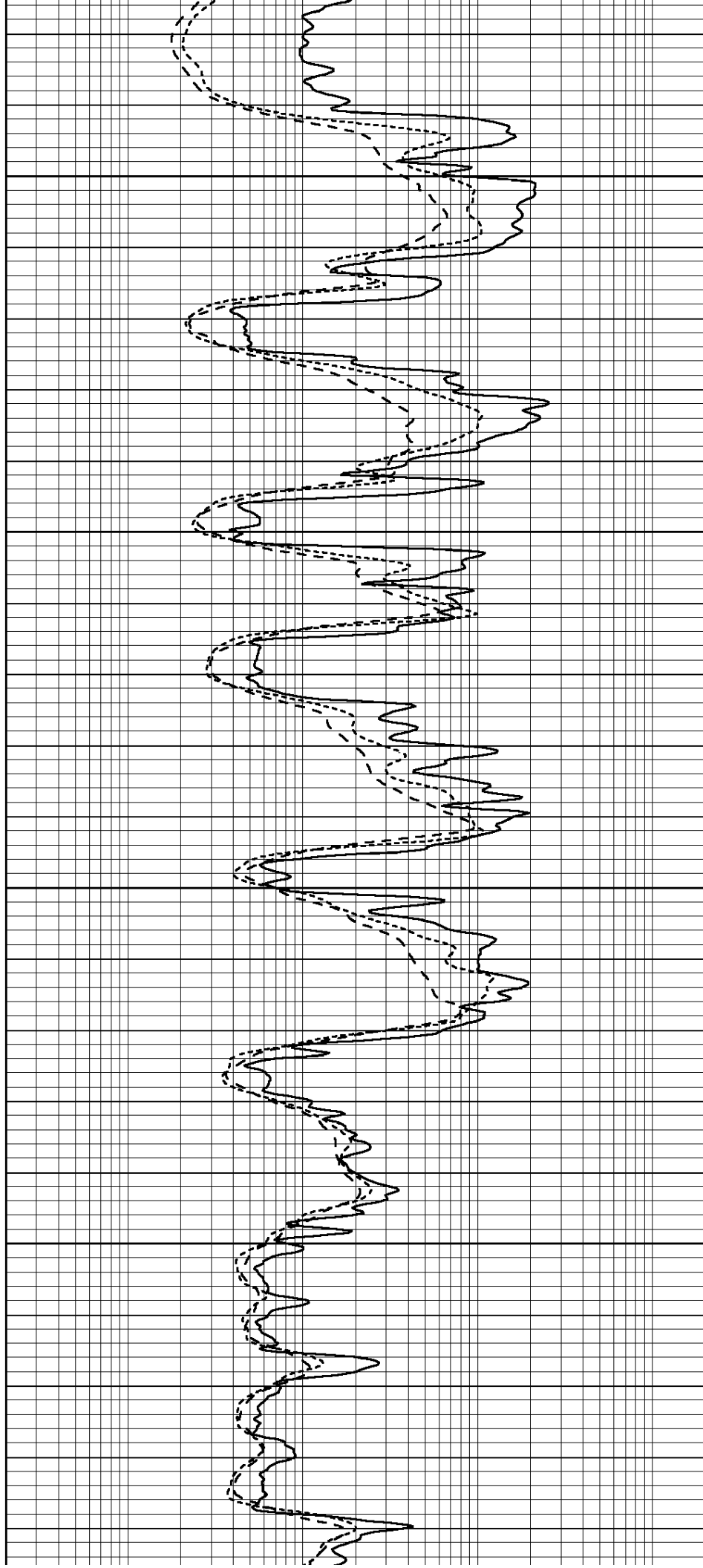


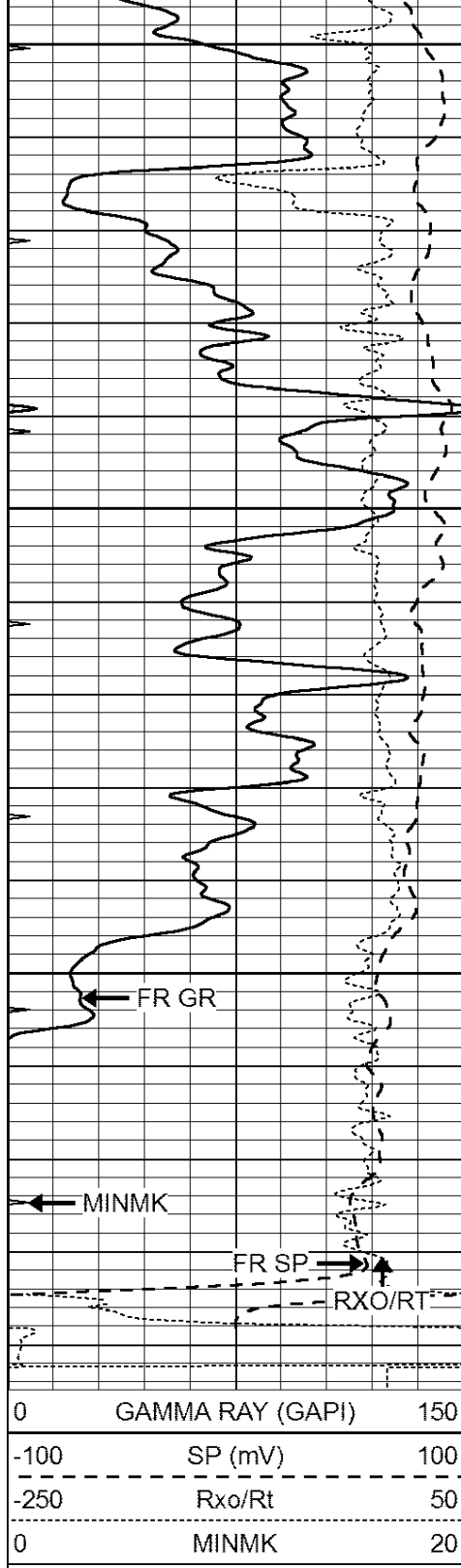
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3650

3700

3750



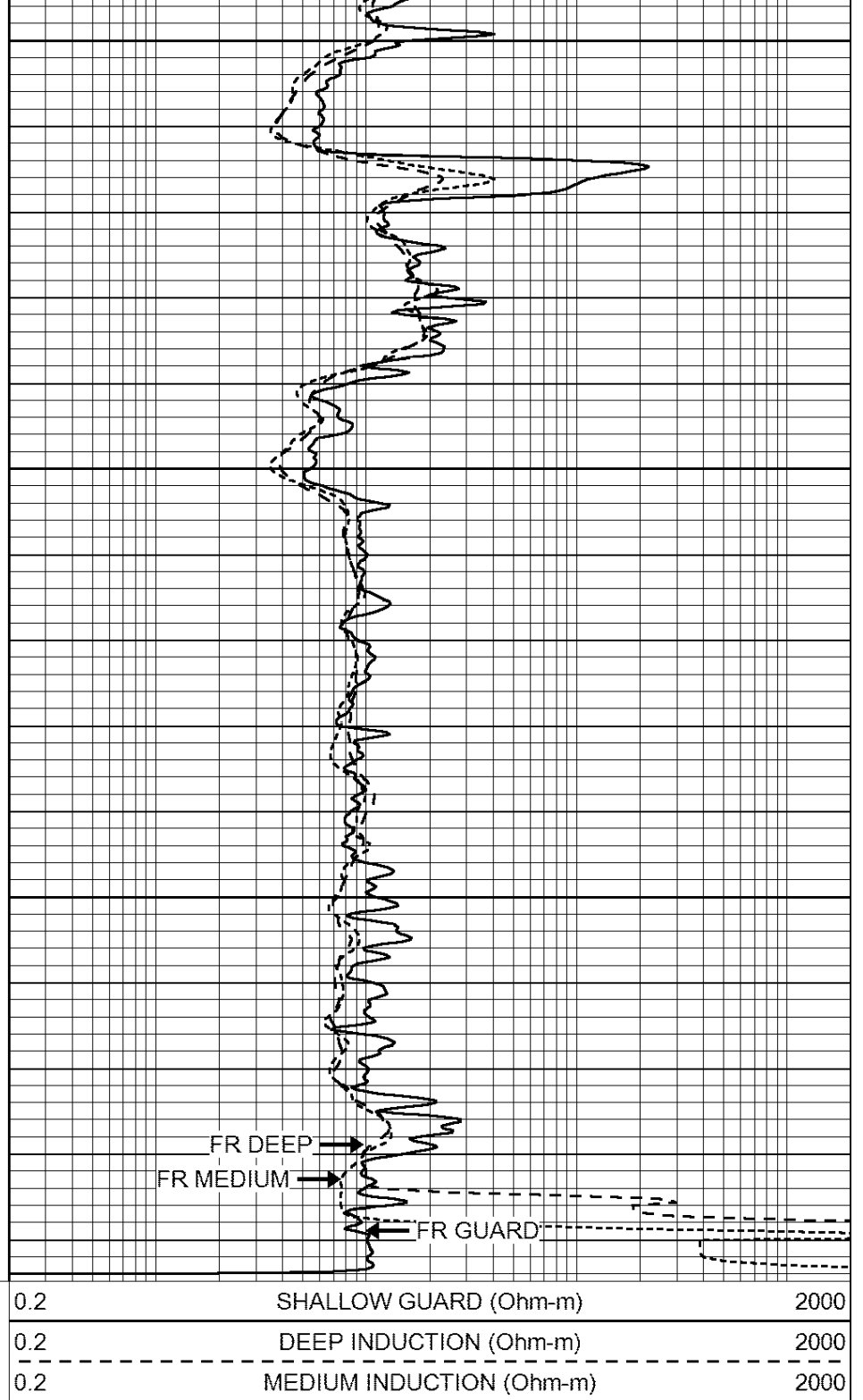


3800

3850

3900

LTD 3941



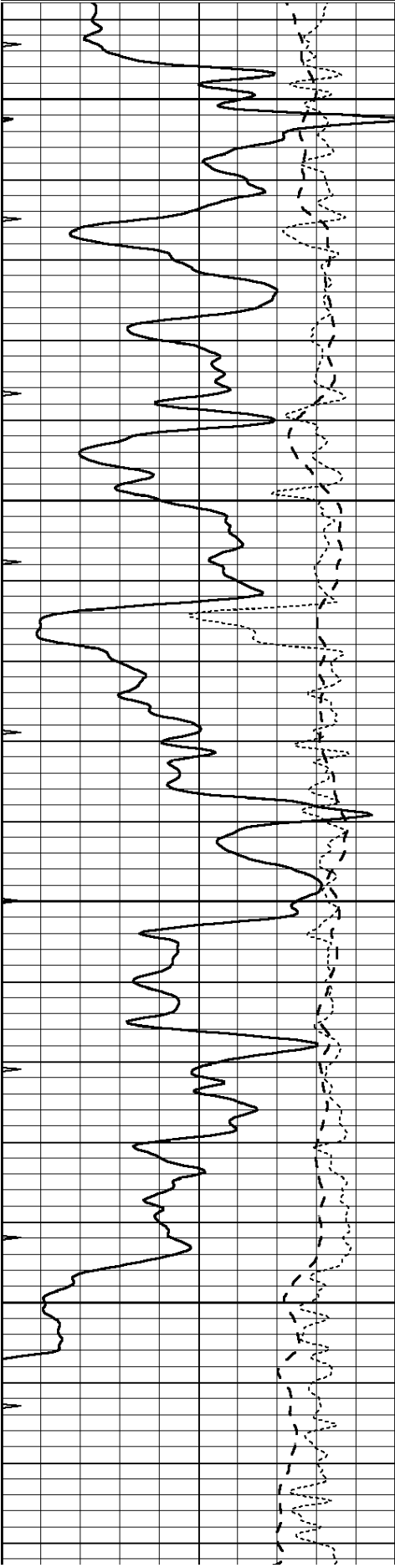
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REPEAT SECTION

Database File: 409505rag.db
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 Presentation Format: dil
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 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

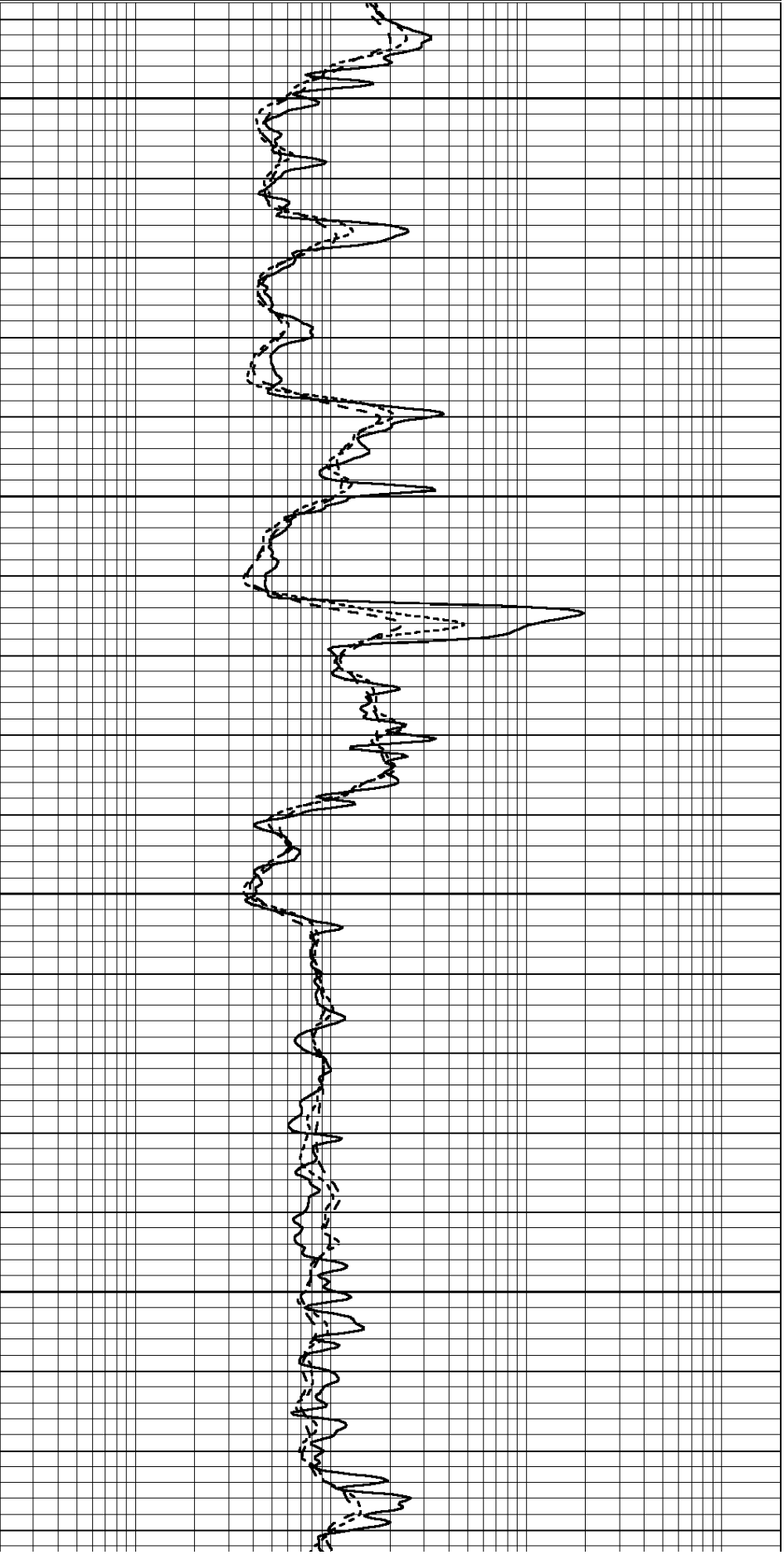


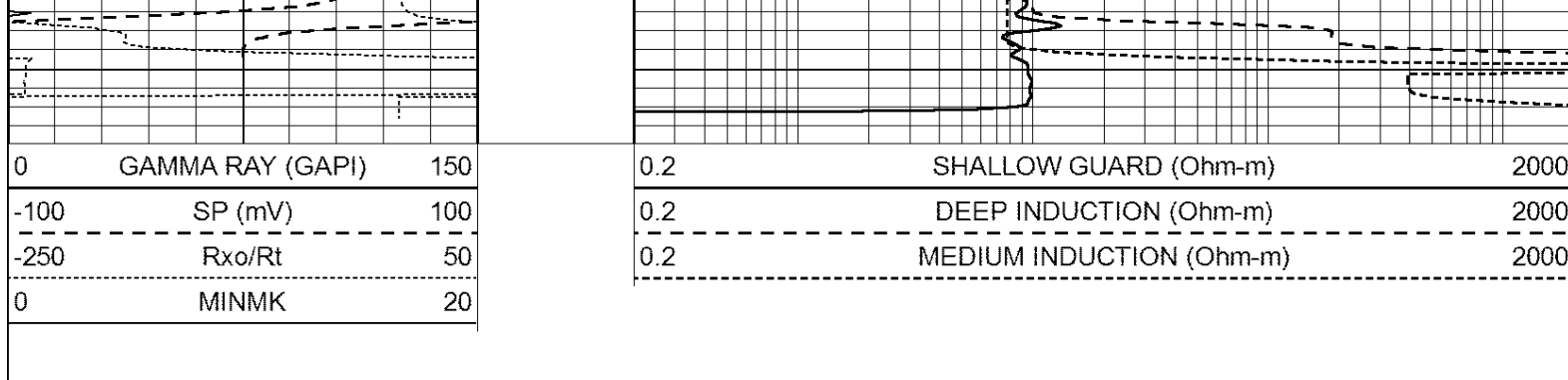
3750

3800

3850

3900





Calibration Report

Database File: 409505rag.db
 Dataset Pathname: pass3.4
 Dataset Creation: Mon Aug 20 23:12:48 2012 by Calc Open-Cased 110302

Dual Induction Calibration Report

Serial-Model: DIL4-GEAR
 Performed: Wed Aug 15 15:23:52 2012

Readings				References			Results	
Loop:	Air	Loop		Air	Loop		m	b
Deep	0.008	0.666	V	0.000	400.000	mmho/m	570.000	-2.000
Medium	-0.003	0.769	V	0.000	462.500	mmho/m	560.000	-2.500
Internal:	Zero	Cal		Zero	Cal		m	b
Deep	0.013	0.651	V	0.000	400.000	mmho/m	627.541	-8.365
Medium	0.020	0.754	V	0.000	462.500	mmho/m	630.311	-12.549

Litho Density Calibration Report
 Serial: 003N Model: PRB
 Performed Tue Sep 08 14:14:44 2009

Litho Density Calibration					
	Background	Magnesium	Aluminum	Sandstone	
Window 1	2042.6	12312.8	4225.8	13758.4	cps
Window 2	1855.8	10134.7	3624.2	11113.1	cps
Window 3	1639.4	6760.2	2716.3	7260.3	cps
Window 4	466.4	469.2	466.1	476.5	cps
Long Space	0.0	8278.9	1768.4	9257.4	cps
Short Space	2.2	2377.3	1544.1	2574.2	cps
Rho		1.7100	2.5900	1.3800	g/cc
Pe			2.5700	1.5500	
Rib Angle	: 44.4	Rib Slope	: 0.979	Density/Spine Ratio	: 0.549
Spine Angle	: 74.4	Spine Slope	: 3.577	Spine Intercept	: -18.8

Caliper		
Low Ref	Readings 3.4	Reference 7.9
High Ref	5.5	15.0
	Gain: 3.4	Offset: -3.5

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:	070559		
Tool Model:	OPEN_GR		
Performed:	Thu Jul 26 17:34:29 2012		
Calibrator Value:	1.0	GAPI	
Background Reading:	0.0	cps	
Calibrator Reading:	1.0	cps	
Sensitivity:	0.3000	GAPI/cps	