



NABORS

**COMPLETION
& PRODUCTION
SERVICES CO.**

DUAL INDUCTION LOG

Company		GREAT PLAINS ENERGY, INC.	
Well		MOFFETT #3-32	
Field		NORTON	
County		NORTON	
State		KANSAS	
Company		GREAT PLAINS ENERGY, INC.	
Well		MOFFETT #3-32	
Field		NORTON	
County		NORTON	
State		KANSAS	
Location:		API # : 15-137-20621-0000 1170' FNL & 1650' FEL	
Permanent Datum		GROUND LEVEL Elevation 2347	
Log Measured From		KELLY BUSHING 5' A.G.L.	
Drilling Measured From		KELLY BUSHING	
SEC 32 TWP 2S RGE 23W		Other Services CDL/CNL MEL	
Elevation		K.B. 2352 D.F. 2350 G.L. 2347	
Date	10/10/12		
Run Number	TWO		
Depth Driller	3679		
Depth Logger	3680		
Bottom Logged Interval	3678		
Top Log Interval	00		
Casing Driller	8 5/8" @ 207		
Casing Logger	207		
Bit Size	7 7/8		
Type Fluid in Hole	CHEMICAL MUD		
Density / Viscosity	9.2/60		
pH / Fluid Loss	10.5/6.8		
Source of Sample	FLOWLINE		
Rin @ Meas. Temp	1.3 @ 72F		
Rinf @ Meas. Temp	.97 @ 72F		
Rinc @ Meas. Temp	1.56 @ 72F		
Source of Rinf / Rinc	MEASURED		
Rin @ BHT	.82 @ 113F		
Time Circulation Stopped	2 HOURS		
Time Logger on Bottom	113F		
Maximum Recorded Temperature	680		
Equipment Number	HAYS, KS.		
Location	JASON CARPELLUCCI		
Recorded By	MIKE GARRISON		
Witnessed By	CLAYTON ERICKSON		

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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 (785) 628-6395
DIRECTIONS
NORTON KS. - FROM W. EDGE GO 1 W. TO RD. W2 - 1 N. - 1/2 W. - S. INTO



NABORS
COMPLETION
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MAIN SECTION

Database File: 009746ddn.db
 Dataset Pathname: pass6.2
 Presentation Format: _dil2
 Dataset Creation: Wed Oct 10 14:24:10 2012 by Calc Open-Cased 090629
 Charted by: Depth in Feet scaled 1:600

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

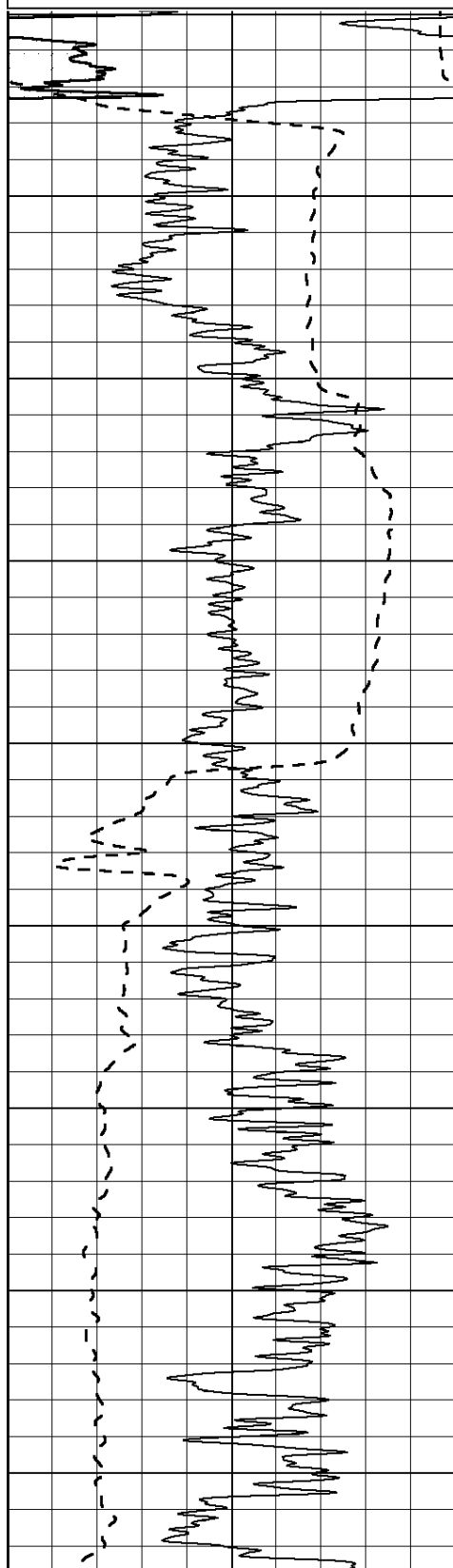
0 RLL3 (Ohm-m) 50

0 Deep Induction (Ohm-m) 50

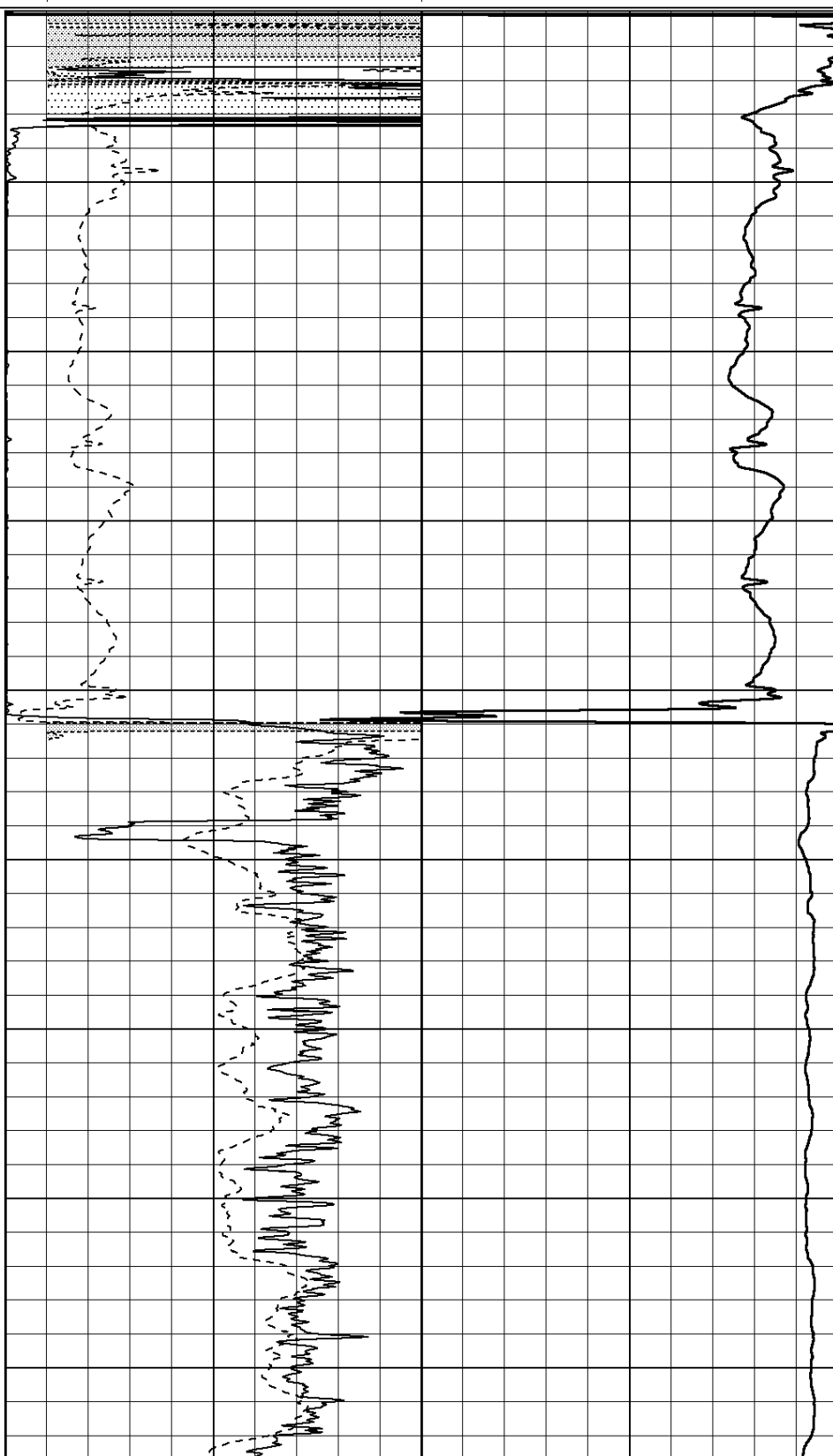
1000 CILD (mmho/m) 0

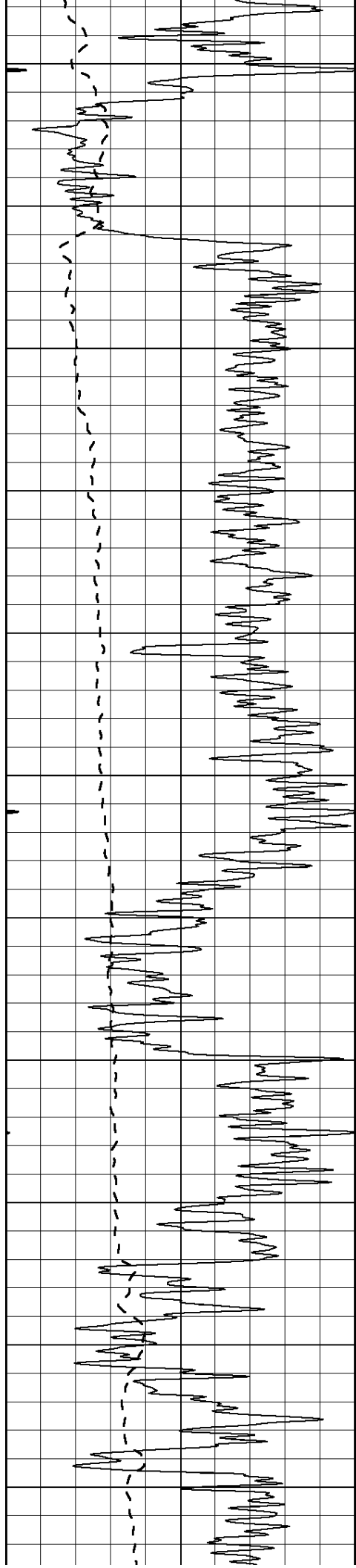
50 RILD X10 (Ohm-m) 500

50 RLL3 X10 (Ohm-m) 500



0
50
100
150
200
250
300
350
400





450

500

550

600

650

700

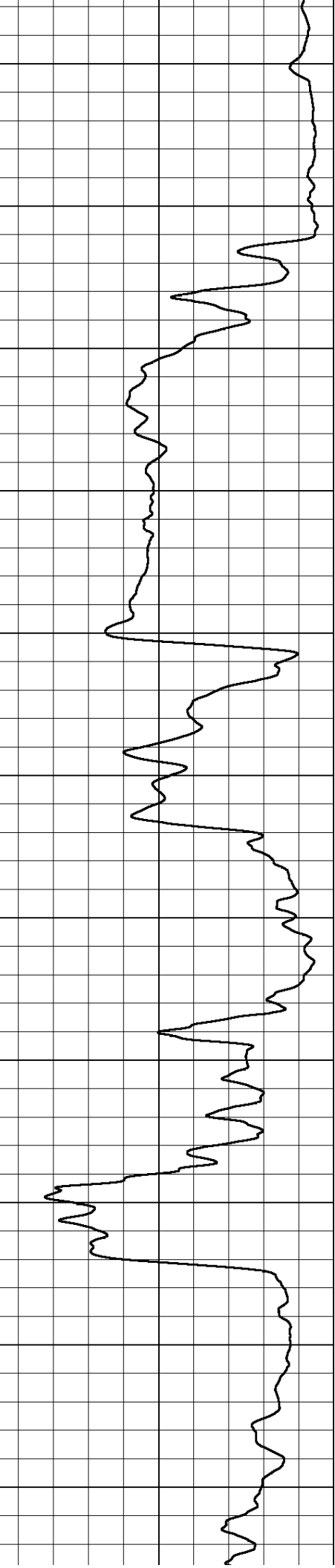
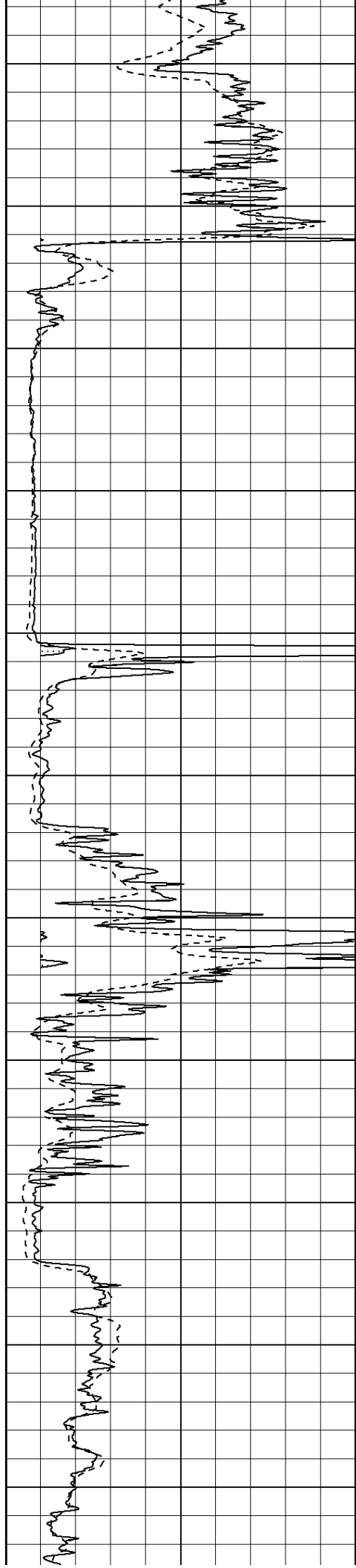
750

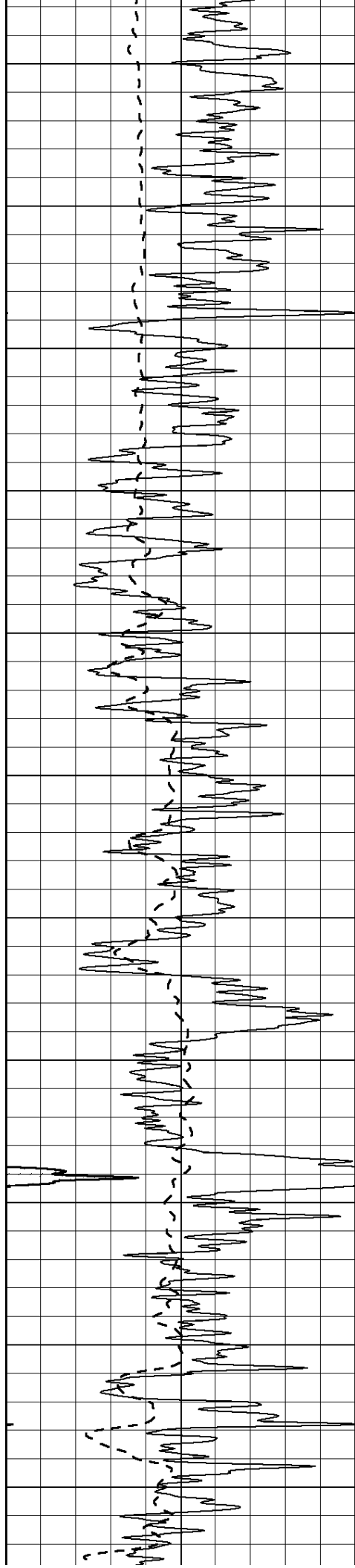
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850

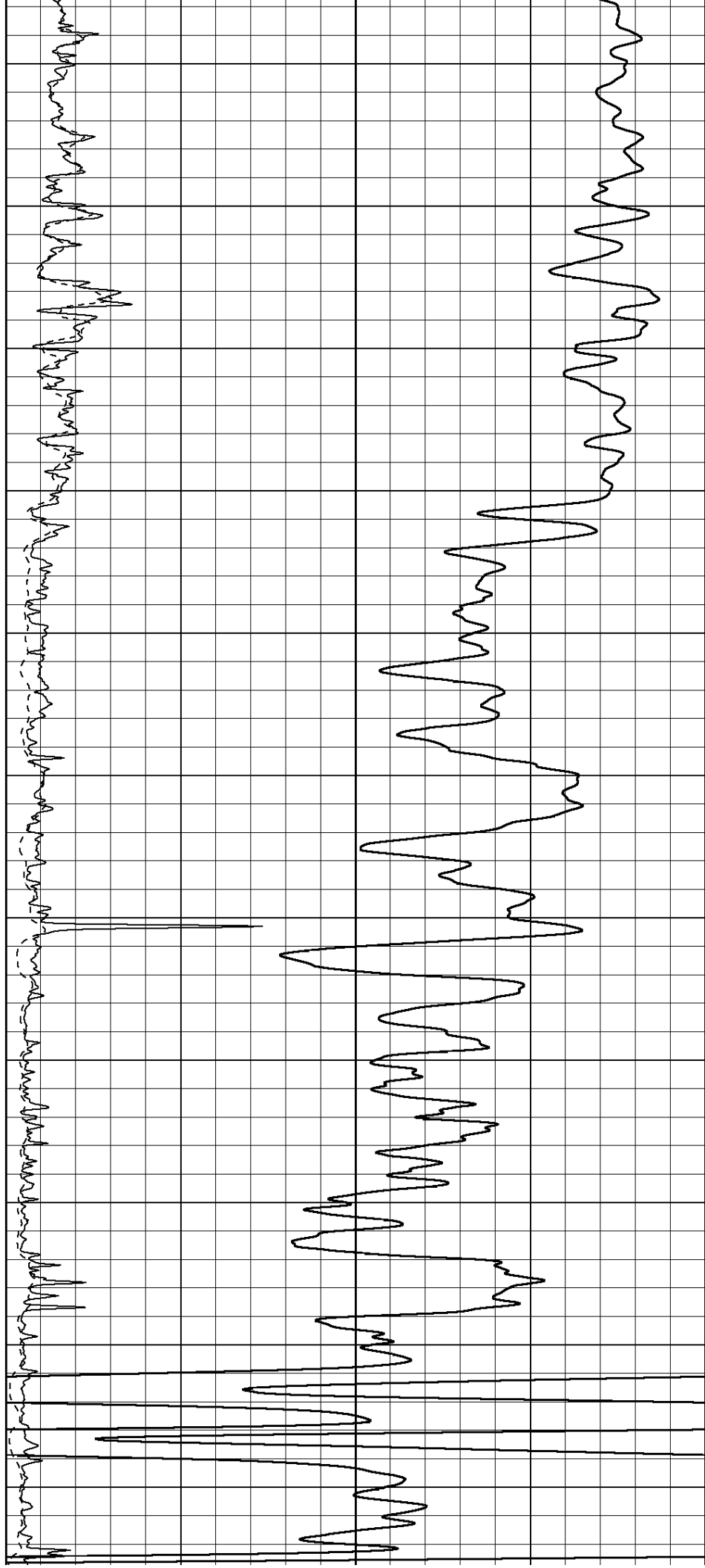
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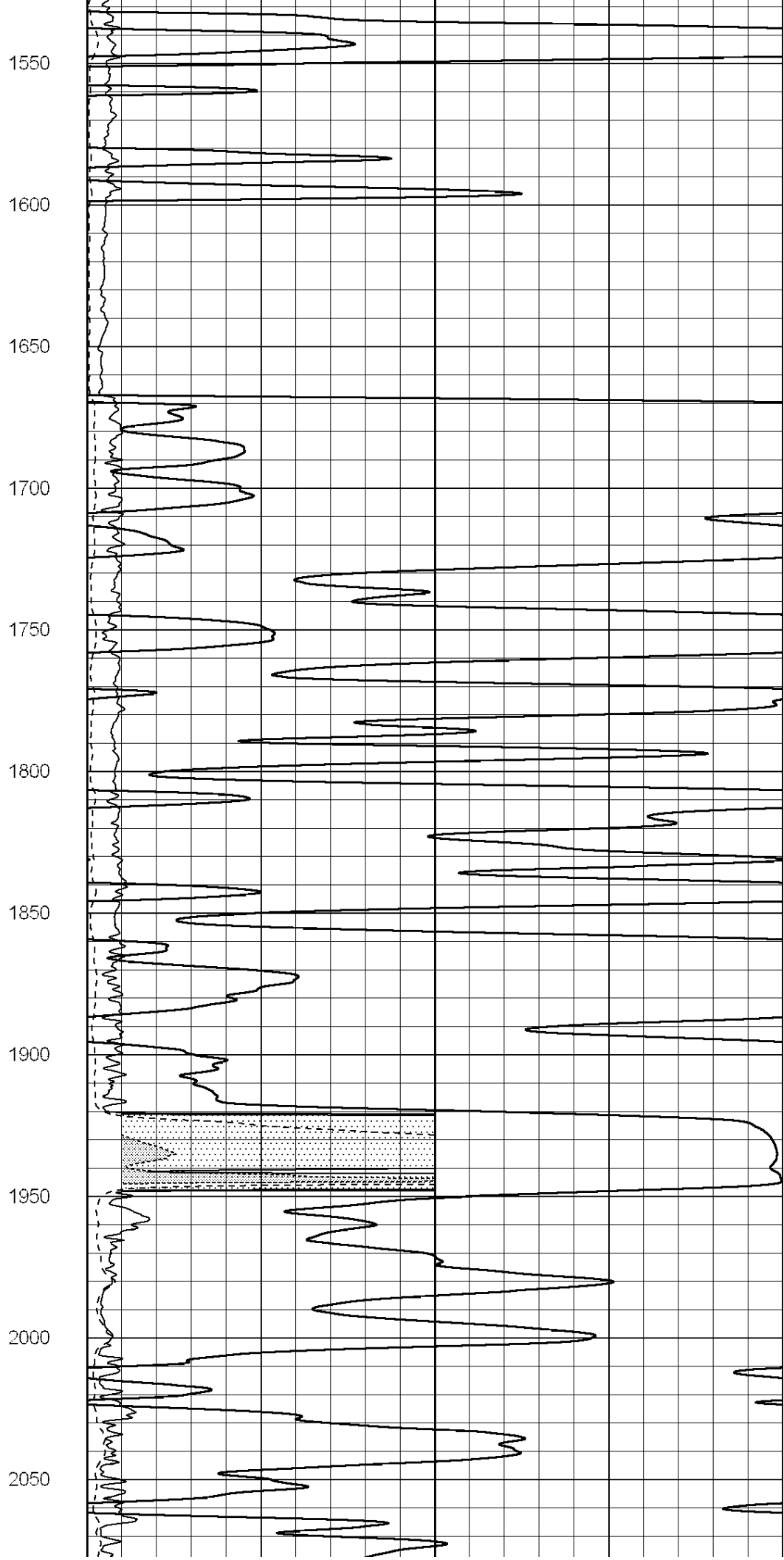
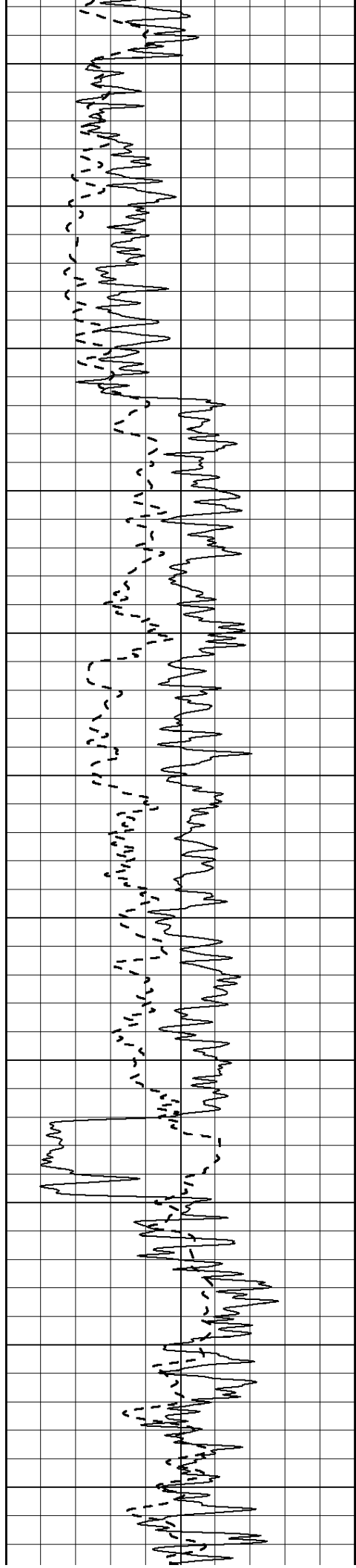
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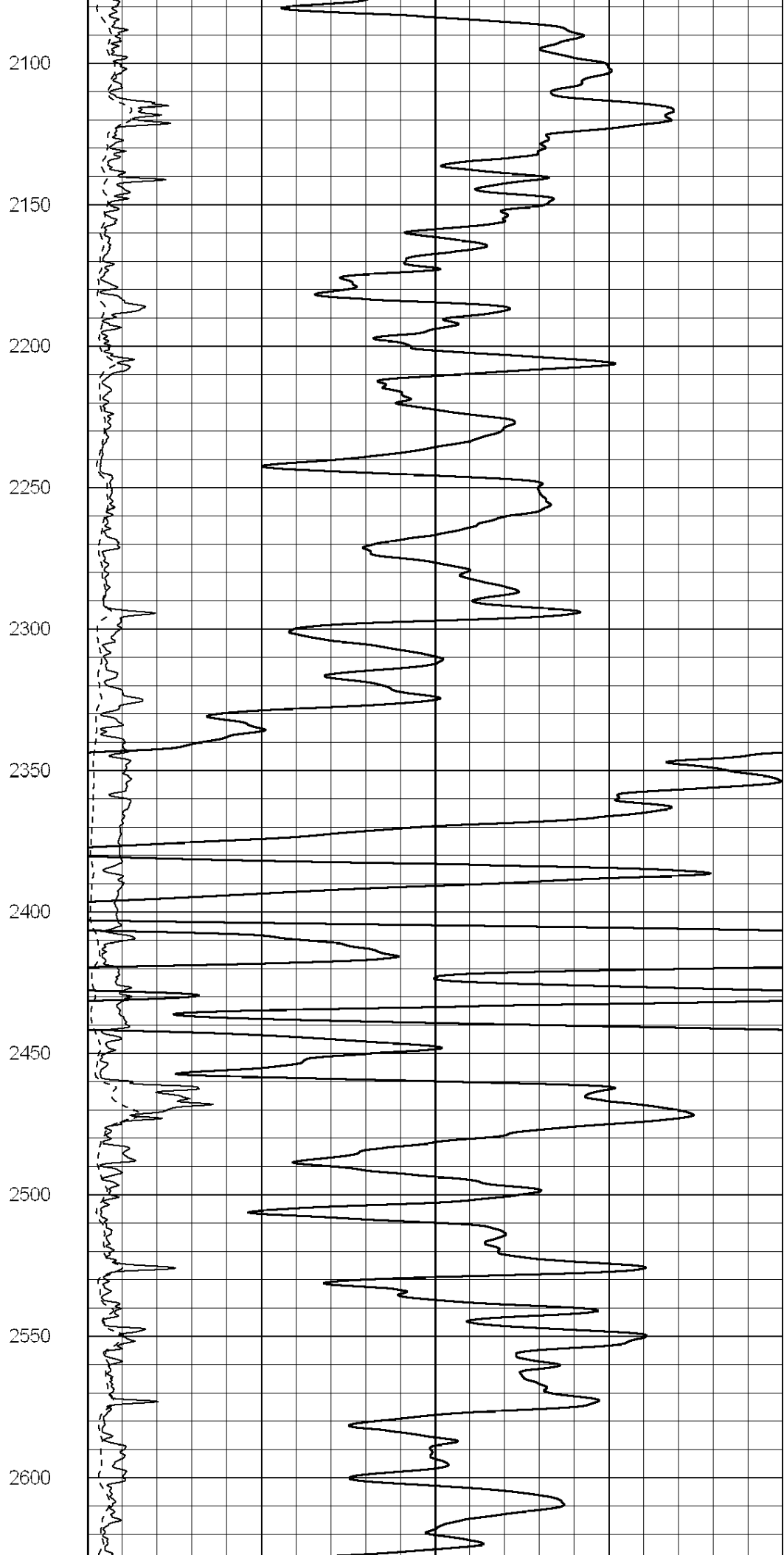
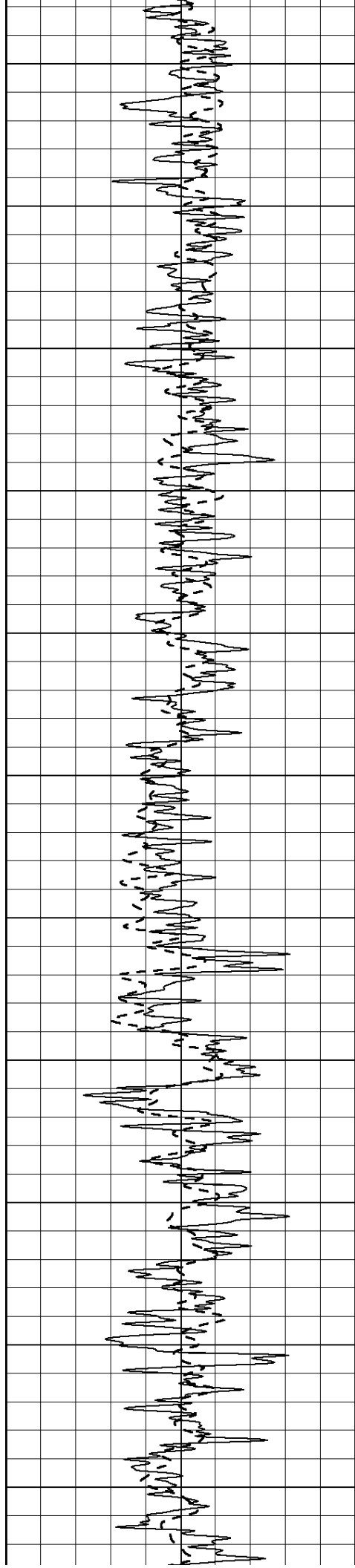


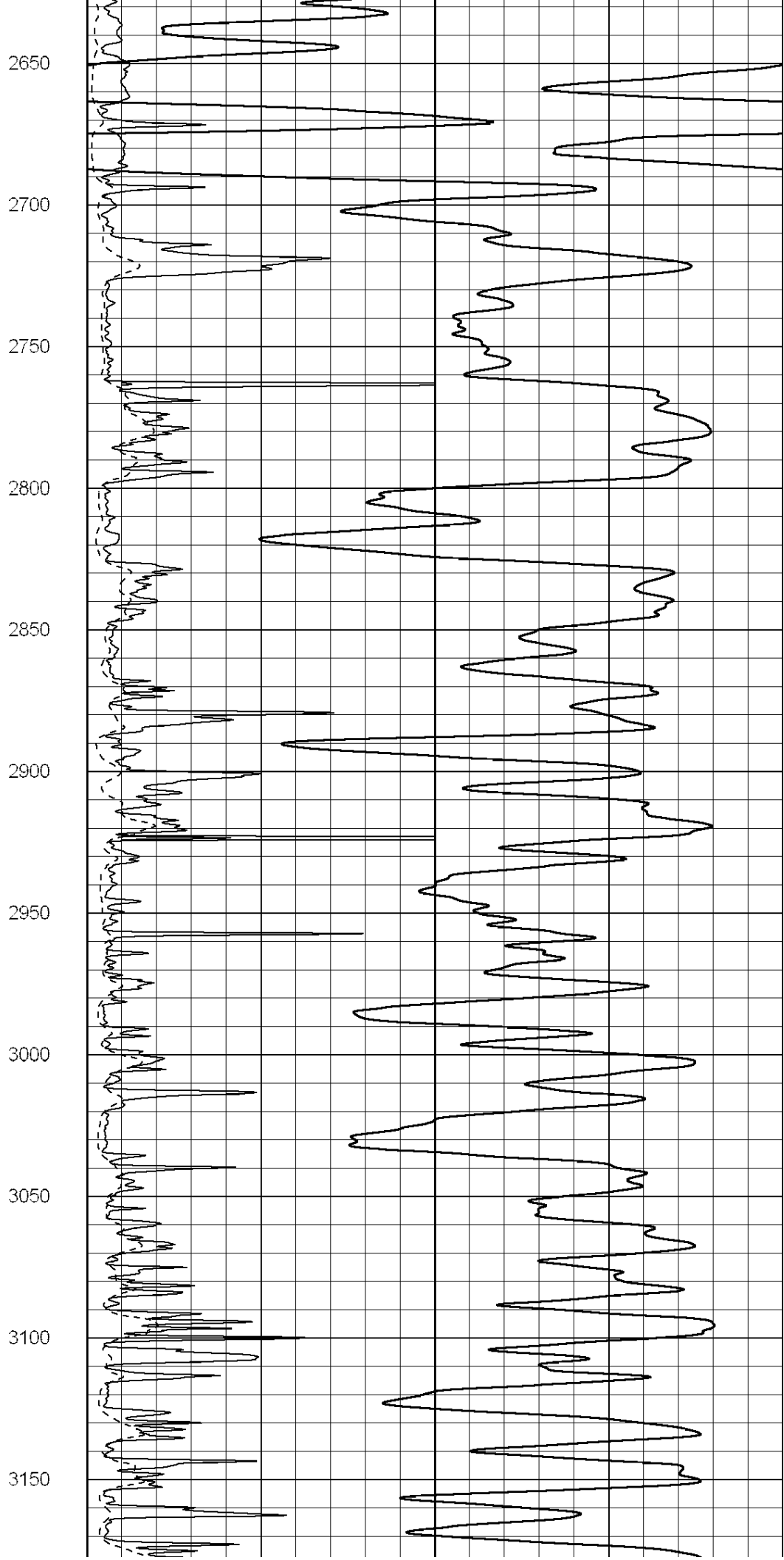
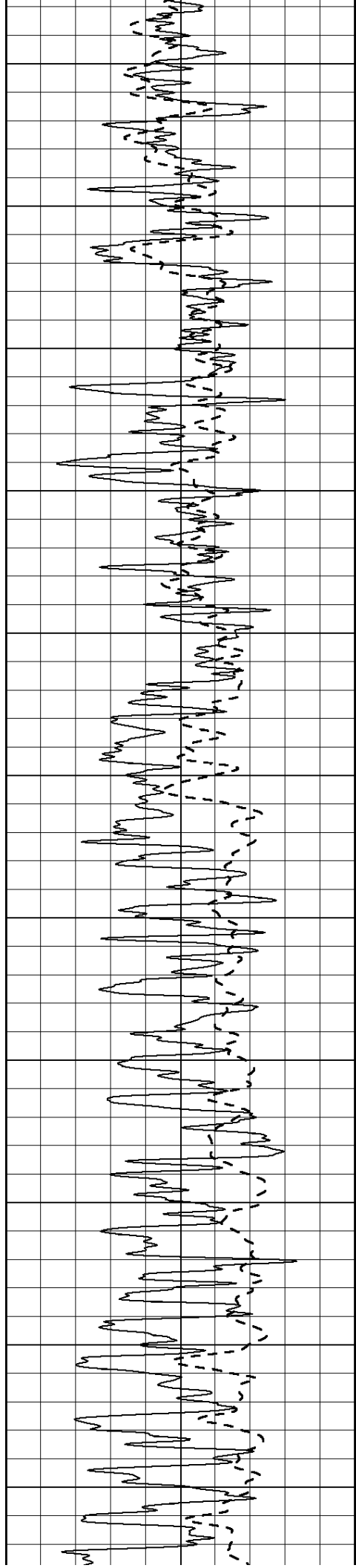


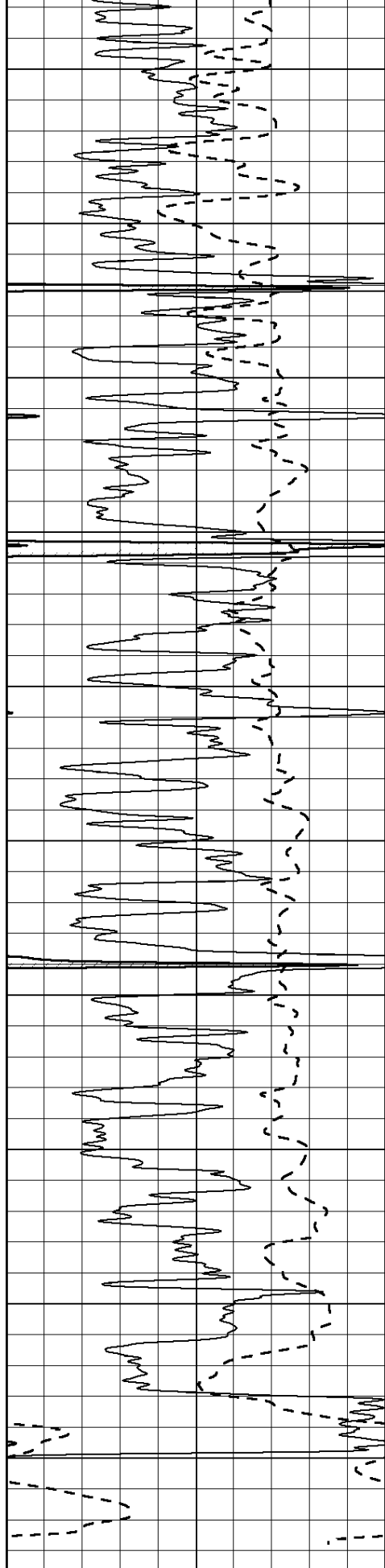
1000
1050
1100
1150
1200
1250
1300
1350
1400
1450
1500



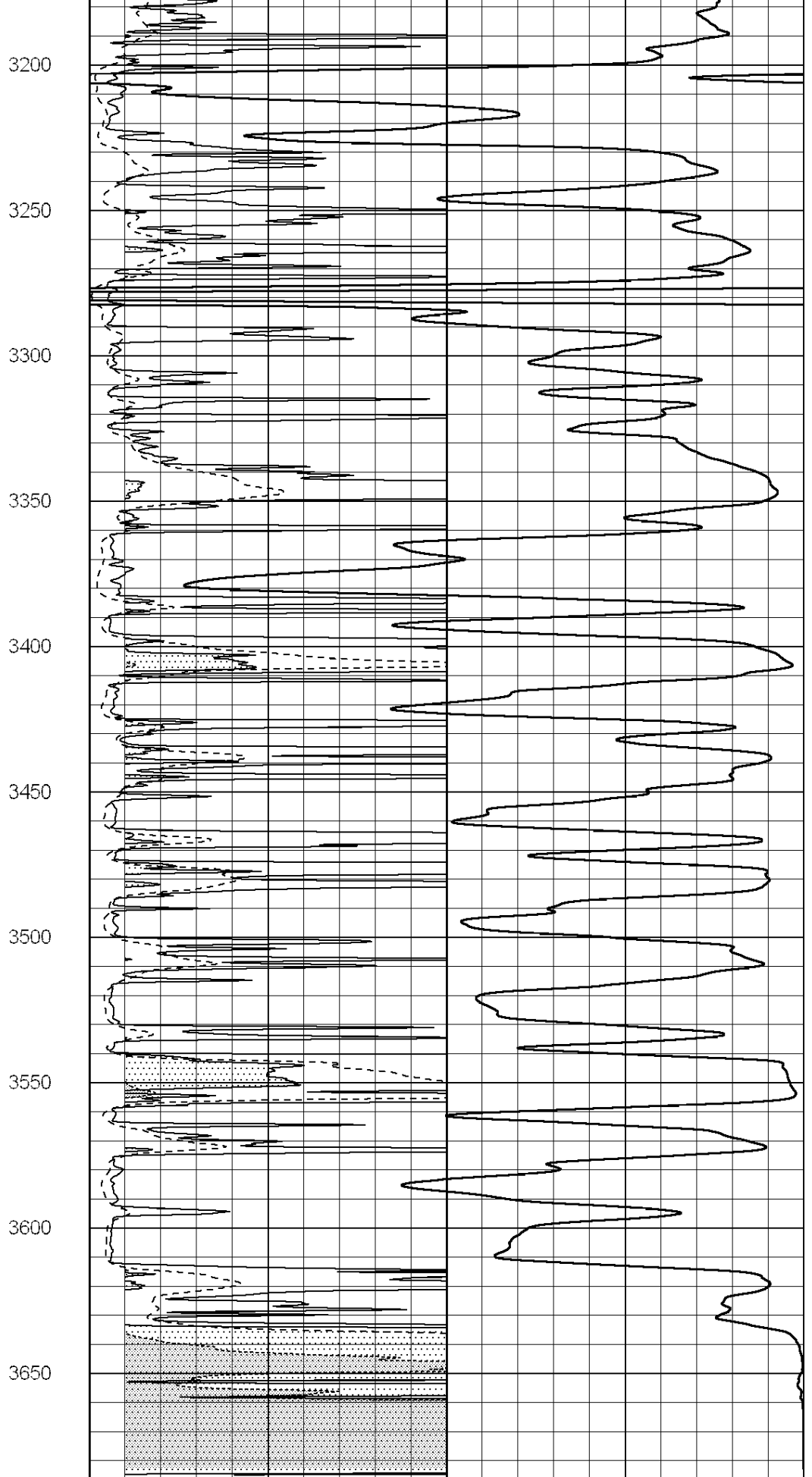








0 Gamma Ray (GAPI) 150
-100 SP (mV) 100



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

150 RLL3 X10 (Ohm-m) 500

50	RLL3 X10 (Ohm-m)	500
50	RLL3 X10 (Ohm-m)	500



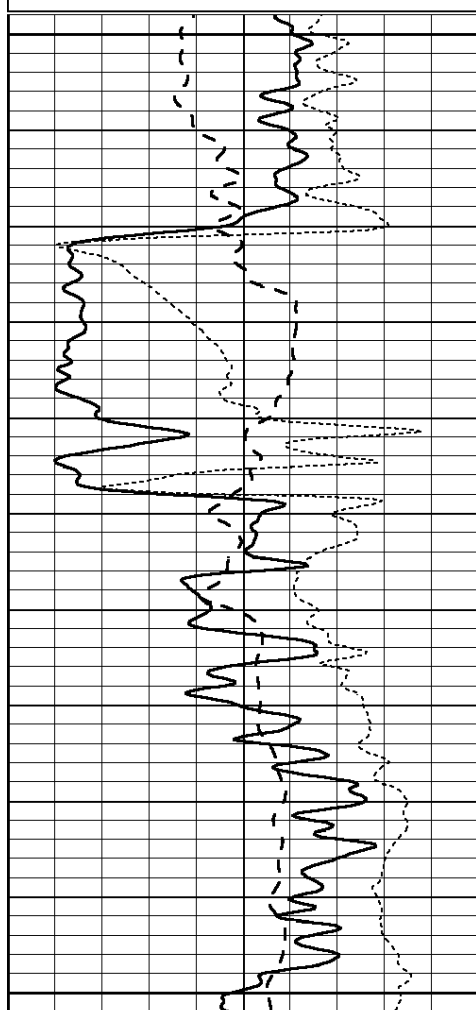
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ANHYDRITE

Database File: 009746ddn.db
 Dataset Pathname: pass6.3
 Presentation Format: _dil
 Dataset Creation: Wed Oct 10 14:15:38 2012 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

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

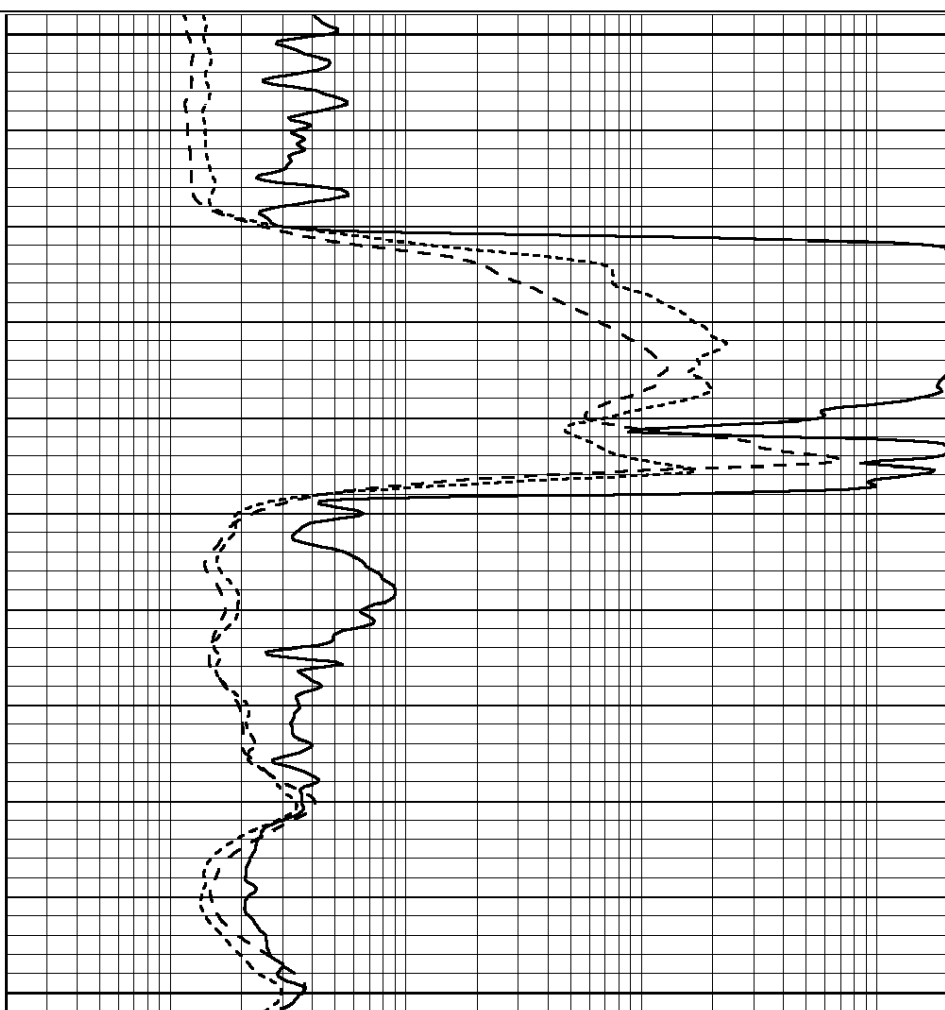


1900

1950

2000

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



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



**COMPLETION
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MAIN SECTION

Database File:

009746ddn.db

Dataset Pathname:

pass6.1

Presentation Format:

_dil

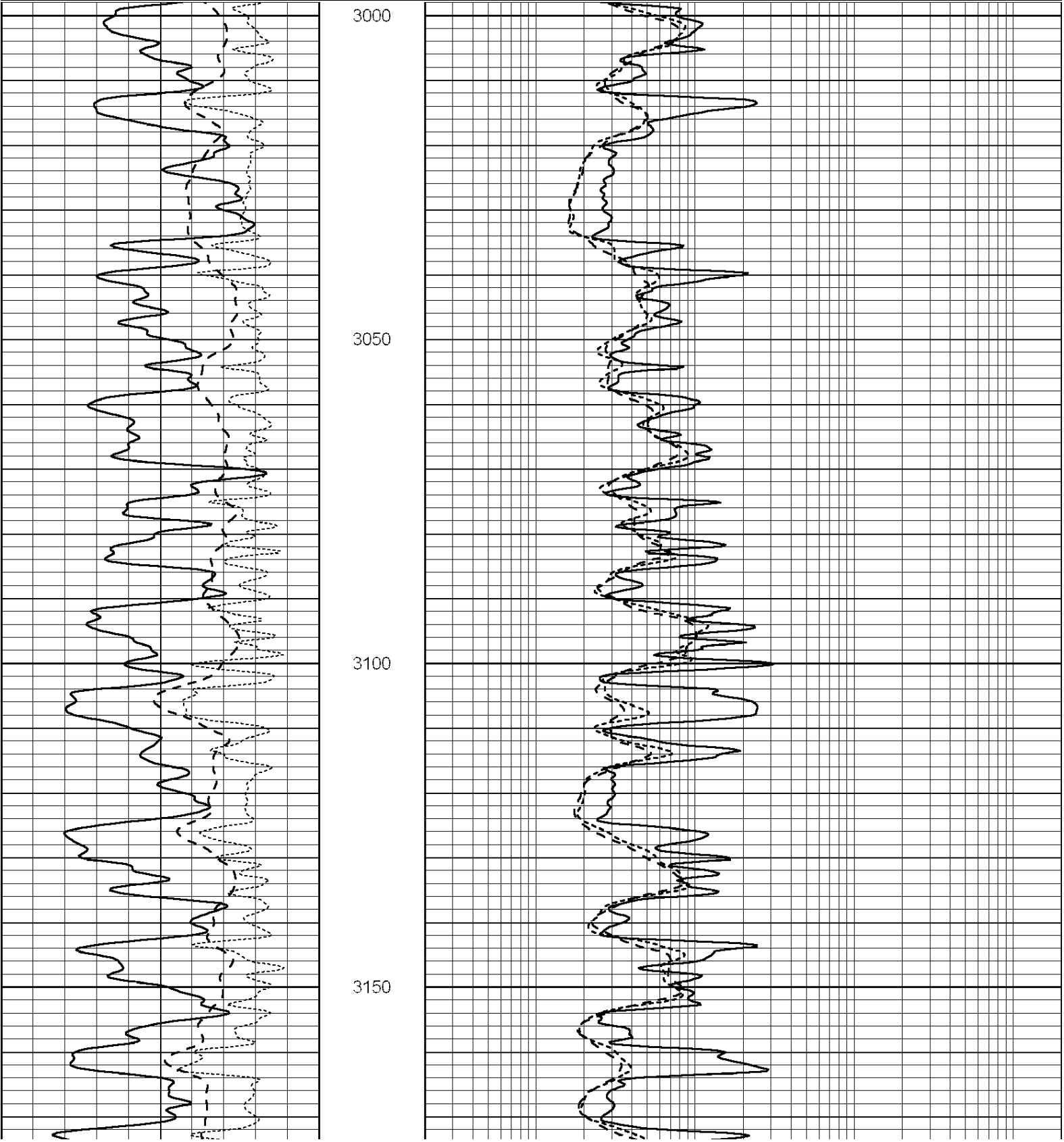
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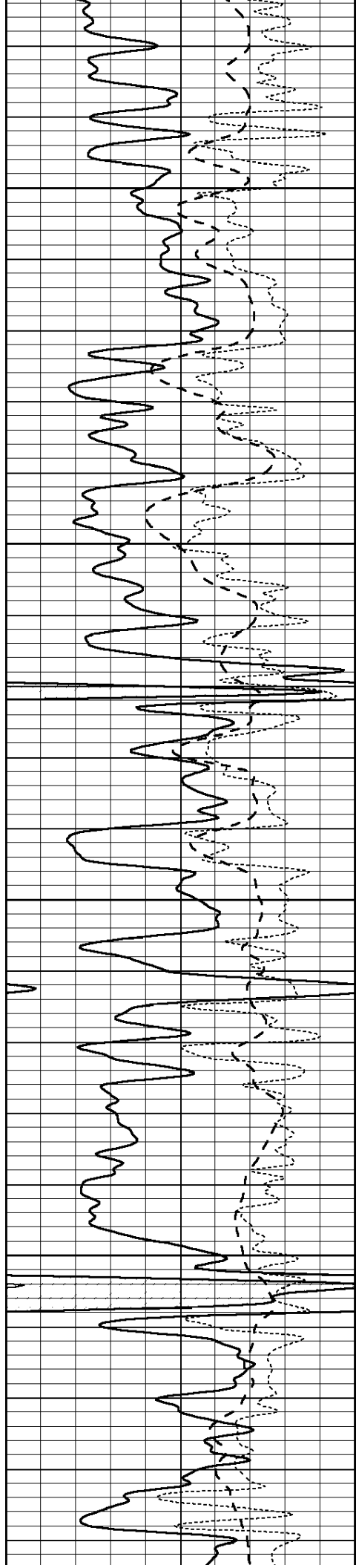
Wed Oct 10 14:04:54 2012 by Calc Open-Cased 090629

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	MEDIUM INDUCTION (Ohm-m)	2000
-250	Rxo/Rt	50	0.2	DEEP INDUCTION (Ohm-m)	2000



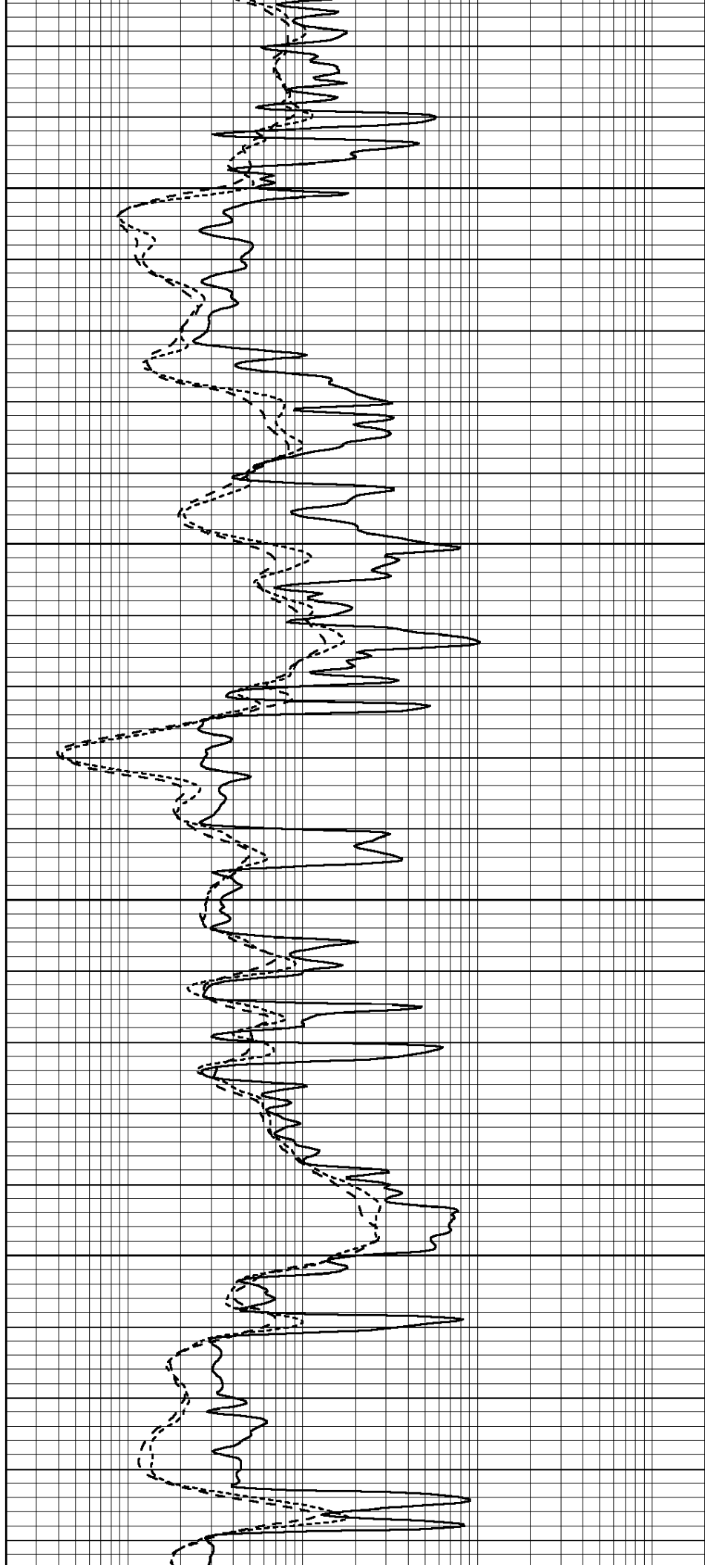


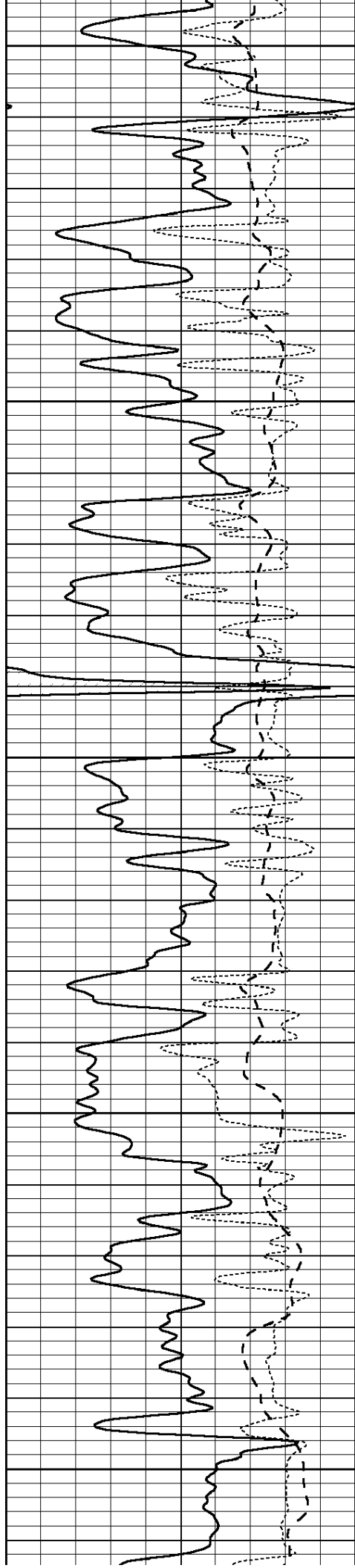
3200

3250

3300

3350





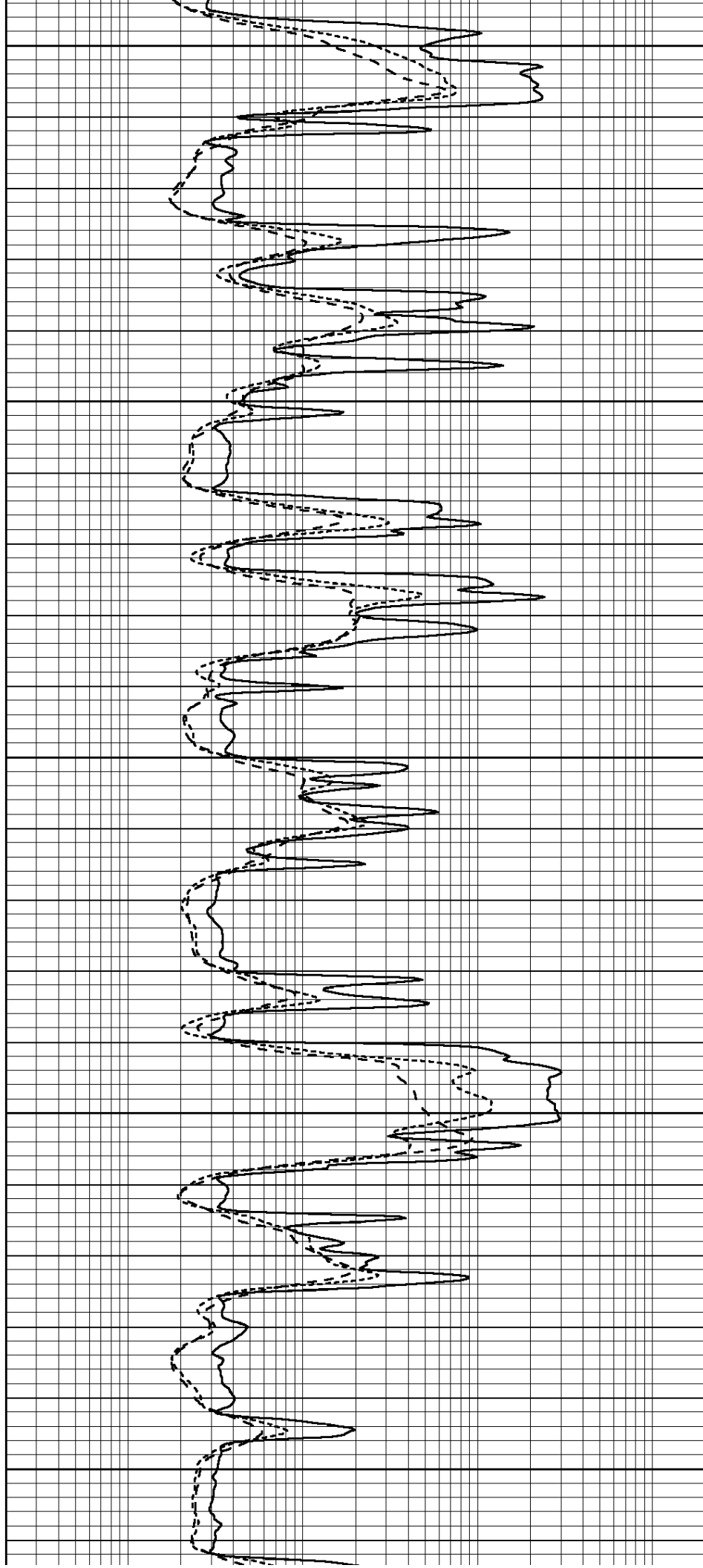
3400

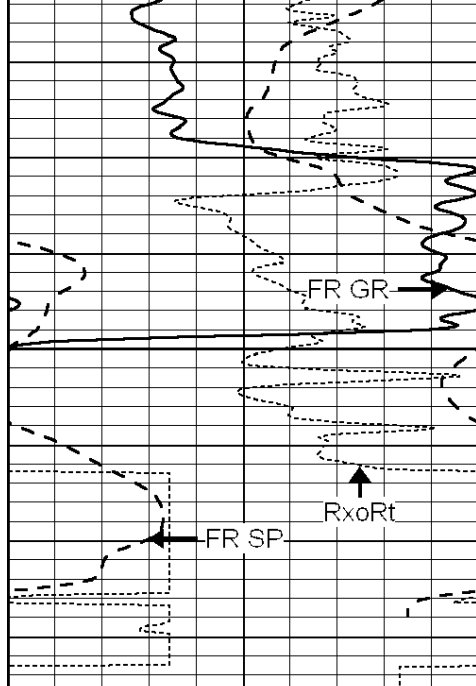
3450

3500

3550

3600

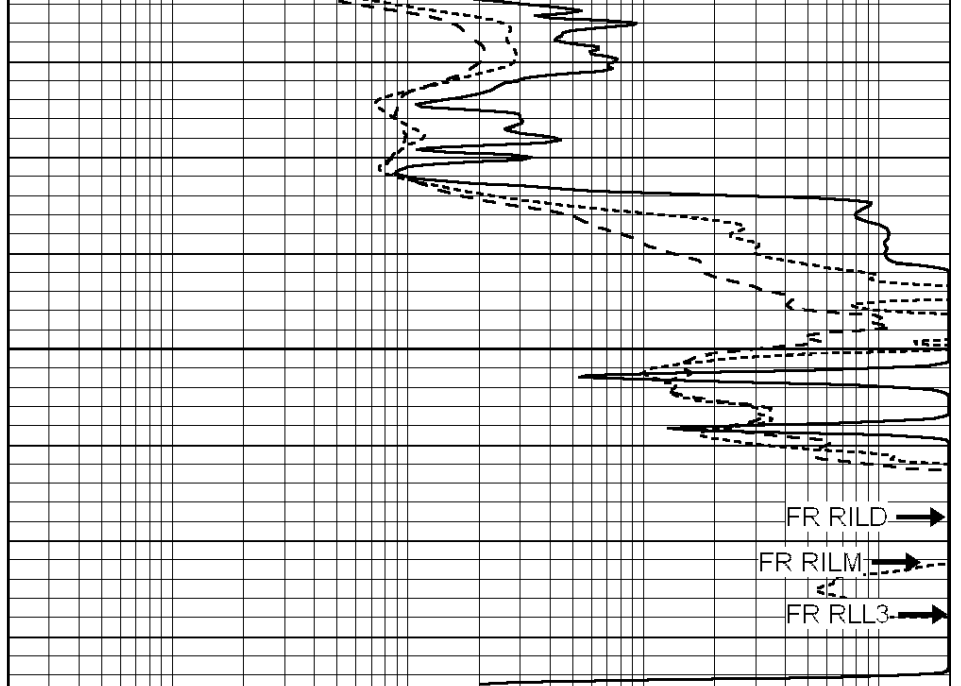




3650

LTD 3680

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



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

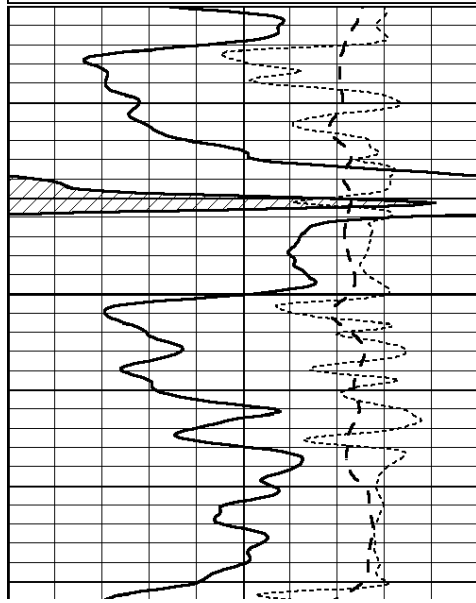


REPEAT SECTION

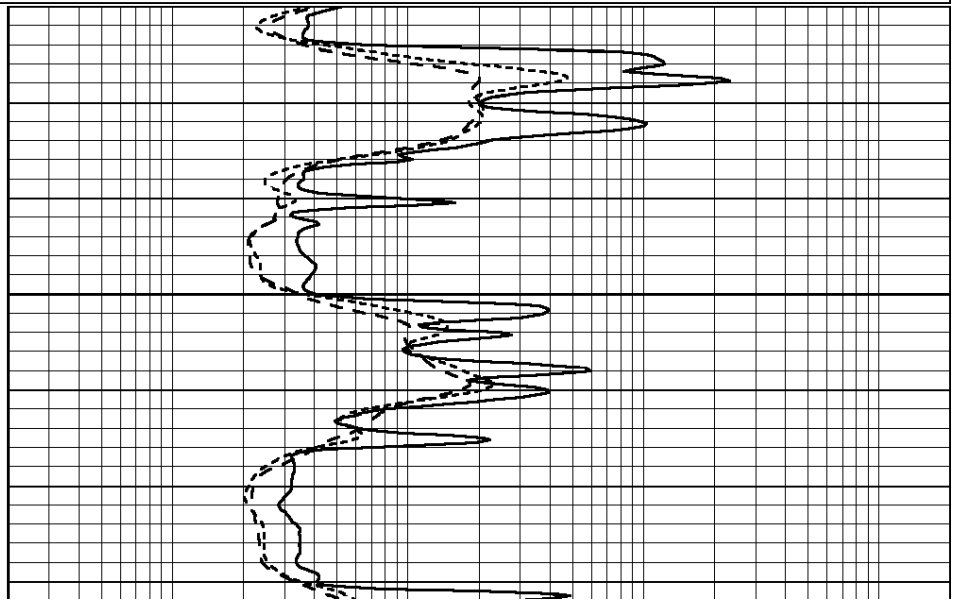
Database File: 009746ddn.db
 Dataset Pathname: pass5.2
 Presentation Format: _dil
 Dataset Creation: Wed Oct 10 13:36:02 2012 by Calc Open-Cased 090629
 Charted by: Depth in Feet scaled 1:240

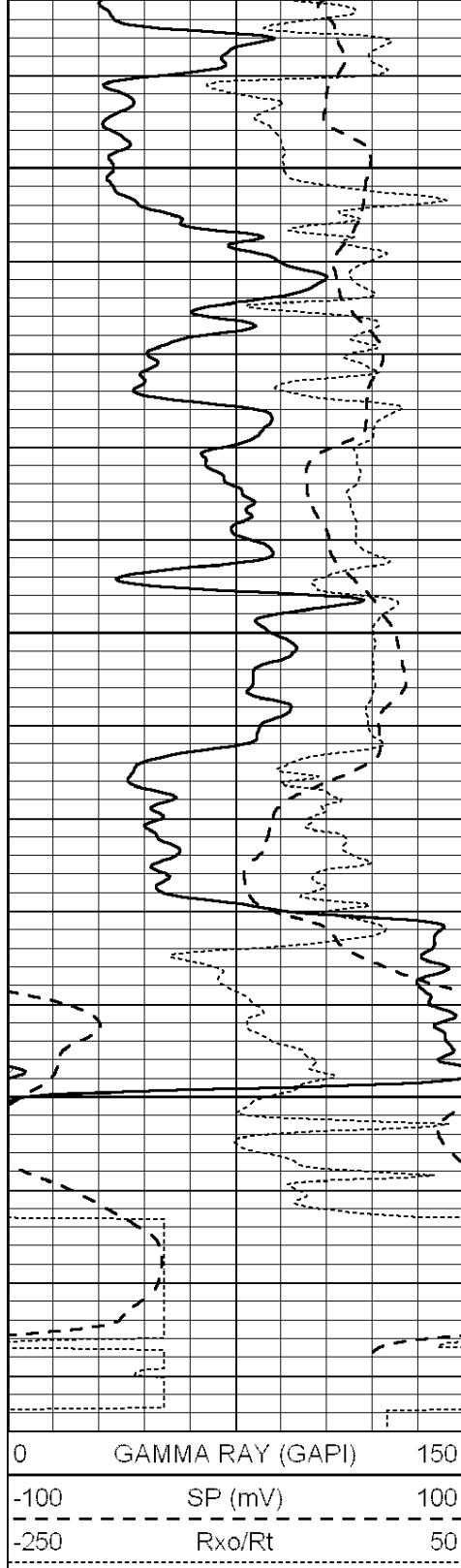
0	GAMMA RAY (GAPI)	150
-100	SP (mV)	100
-250	Rxo/Rt	50

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



3500

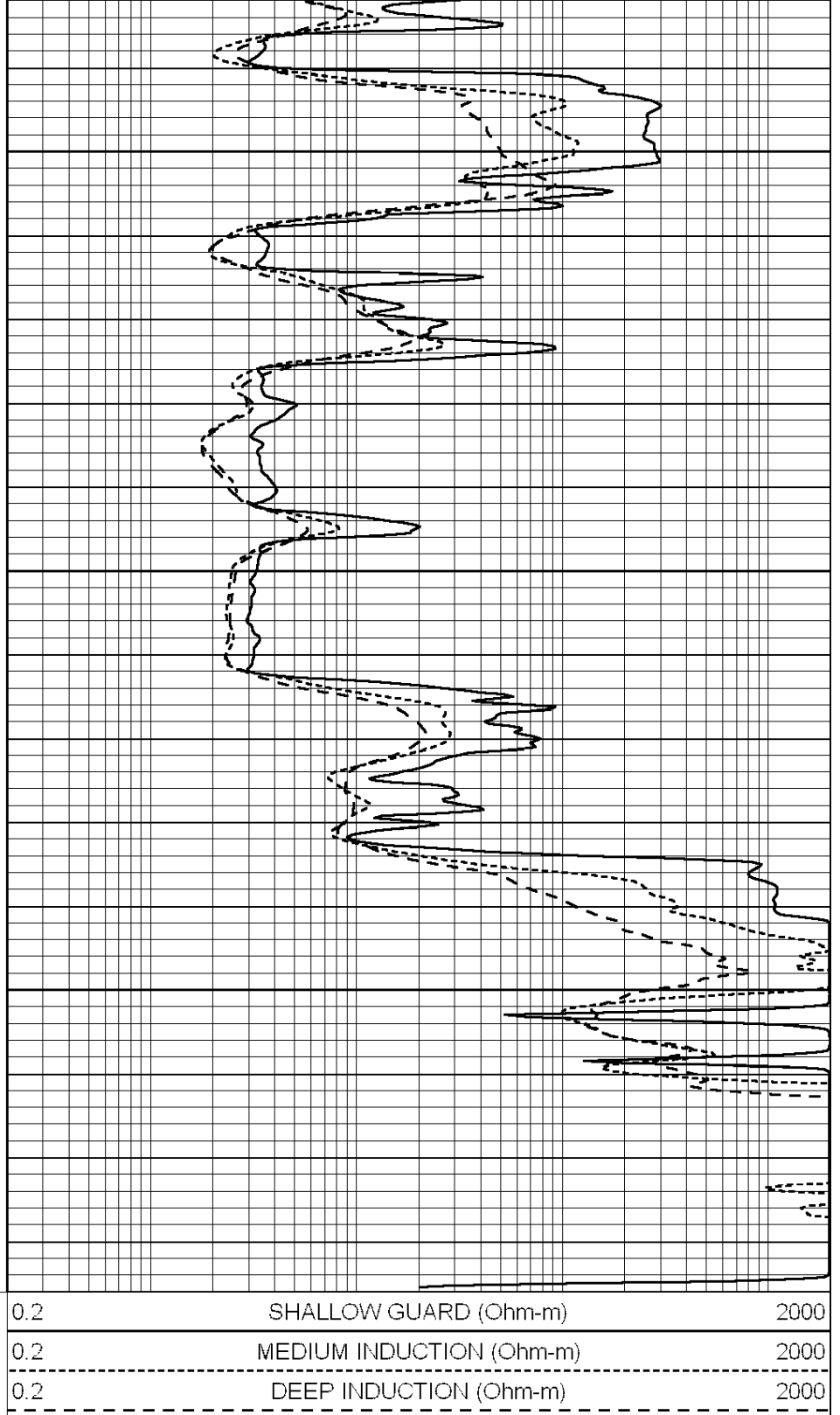




3550

3600

3650



Calibration Report

Database File: 009746ddh.db
 Dataset Pathname: pass6.1
 Dataset Creation: Wed Oct 10 14:04:54 2012 by Calc Open-Cased 090629

Dual Induction Calibration Report

Serial-Model:	PROBE8-DILG
Surface Cal Performed:	Fri Aug 01 06:33:19 2008
Downhole Cal Performed:	Mon Jul 28 11:08:27 2008
After Survey Verification Performed:	Mon Jul 28 11:08:27 2008

Surface Calibration				References			Results	
Loop:	Air	Loop		Air	Loop		m	b
Deep	0.015	0.648	V	0.000	400.000	mmho/m	632.616	-9.730
Medium	0.029	0.796	V	0.000	464.000	mmho/m	605.049	-17.680
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				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				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:		GEAR4-GEARHART	
Source / Verifier:		143 / 143	
Master Calibration Performed:		Mon Mar 19 19:07:19 2012	

Master Calibration				Far Detector		Near Detector	
	Density						
Magnesium	1.710	g/cc		1015.91		497.51	cps
Aluminum	2.600	g/cc		227.67		350.20	cps
Spine Angle = 76.79				Density/Spine Ratio = 0.579			
	Size			Reading			
Small Ring	8.00	in		3.21	V		
Large Ring	14.00	in		5.46	V		

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	

Gamma Ray Calibration Report			
Serial Number:		#8	

Serial Number: n/a
Tool Model: OPEN
Performed: Mon Jun 13 16:56:43 2011

Calibrator Value: 150.0 GAPI

Background Reading: 0.0 cps
Calibrator Reading: 175.0 cps

Sensitivity: 0.8371 GAPI/cps