



NABORS

**COMPLETION
& PRODUCTION
SERVICES CO.**

**DUAL INDUCTION
LOG**

Company		ETERNITY EXPLORATION, LLC.	
Well		STECKLEIN #1	
Field		WHEATLAND	
County		ELLIS	
State		KANSAS	
Company		ETERNITY EXPLORATION, LLC.	
Well		STECKLEIN #1	
Field		WHEATLAND	
County		ELLIS	
State		KANSAS	
Location:		API # : 15-051-26621-0000	
Permanent Datum		GROUND LEVEL	
Log Measured From		KELLY BUSHING 10' A.G.L.	
Drilling Measured From		KELLY BUSHING	
SEC 20 TWP 15S RGE 17W		CDL/CNL	
Elevation		K.B. 1999	
Elevation		D.F. 1997	
Elevation		G.L. 1989	
Date	10/23/13		
Run Number	ONE		
Depth Driller	3609		
Depth Logger	3610		
Bottom Logged Interval	3608		
Top Log Interval	00		
Casing Driller	8 5/8" @ 1156'		
Casing Logger	1156		
Bit Size	7 7/8"		
Type Fluid in Hole	CHEMICAL MUD	CHLORIDES 2,100 PPM	
Density / Viscosity	9.1/59		
pH / Fluid Loss	10.5/7.2		
Source of Sample	FLOWLINE		
Rim @ Meas. Temp	.700 @ 72F		
Rmf @ Meas. Temp	.525 @ 72F		
Rmc @ Meas. Temp	.840 @ 72F		
Source of Rmf / Rmc	MEASUREMENT		
Rim @ BHT	.446 @ 113F		
Time Circulation Stopped	2 HOURS		
Time Logger on Bottom	9:30 A.M.		
Maximum Recorded Temperature	113F		
Equipment Number	4854		
Location	HAYS, KANSAS		
Recorded By	JEFF LUEBBERS		
Witnessed By	JIM MUSGROVE		

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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, KANSAS (785) 628-6395
DIRECTIONS
HAYS, KS., 10S. ON HWY 183 TO (HAYS MACK) 4E., 1/4S., E. INTO

Database File:

011695ddn.db

Dataset Pathname:

pass3.5

Presentation Format:

dil2

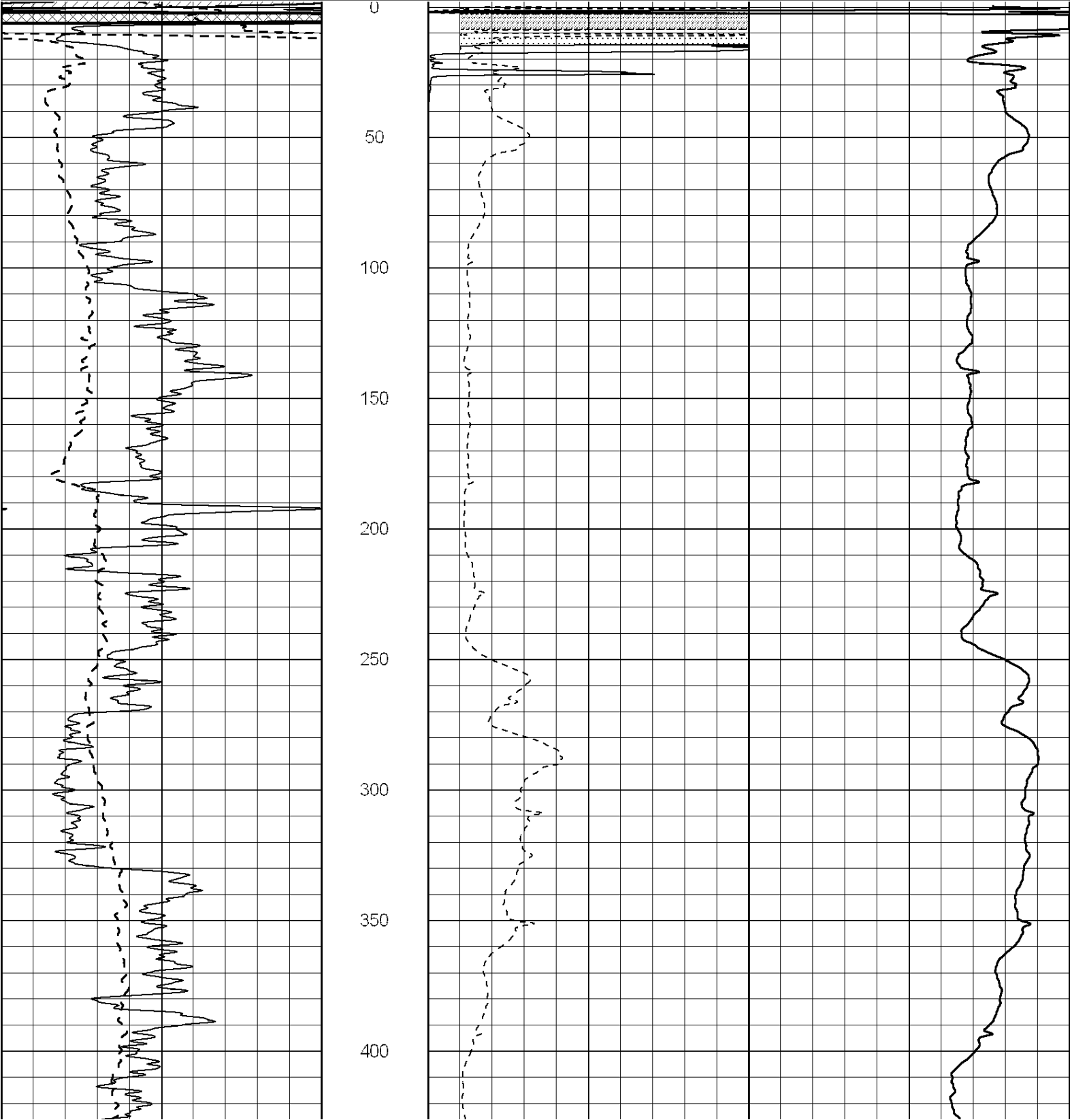
Dataset Creation:

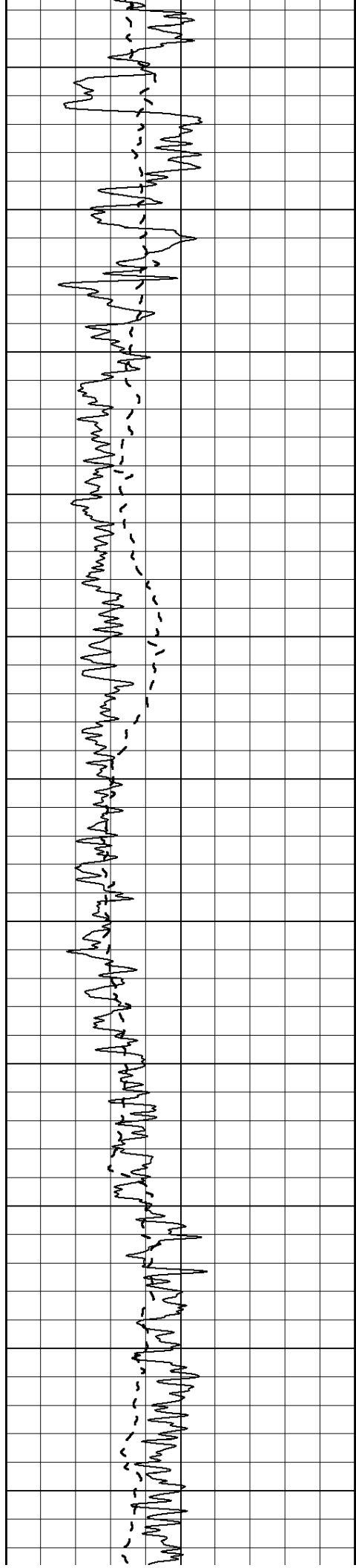
Wed Oct 23 10:55:38 2013

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

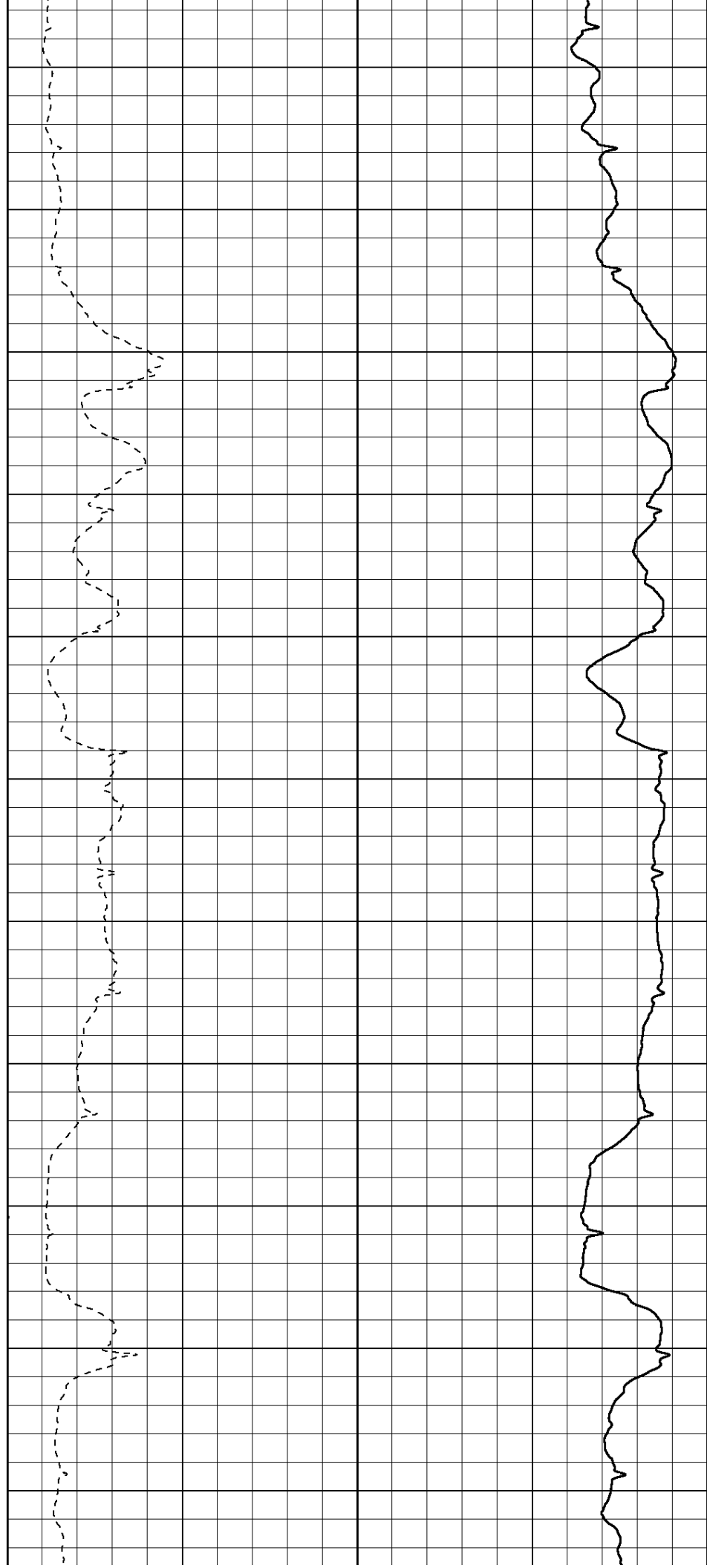
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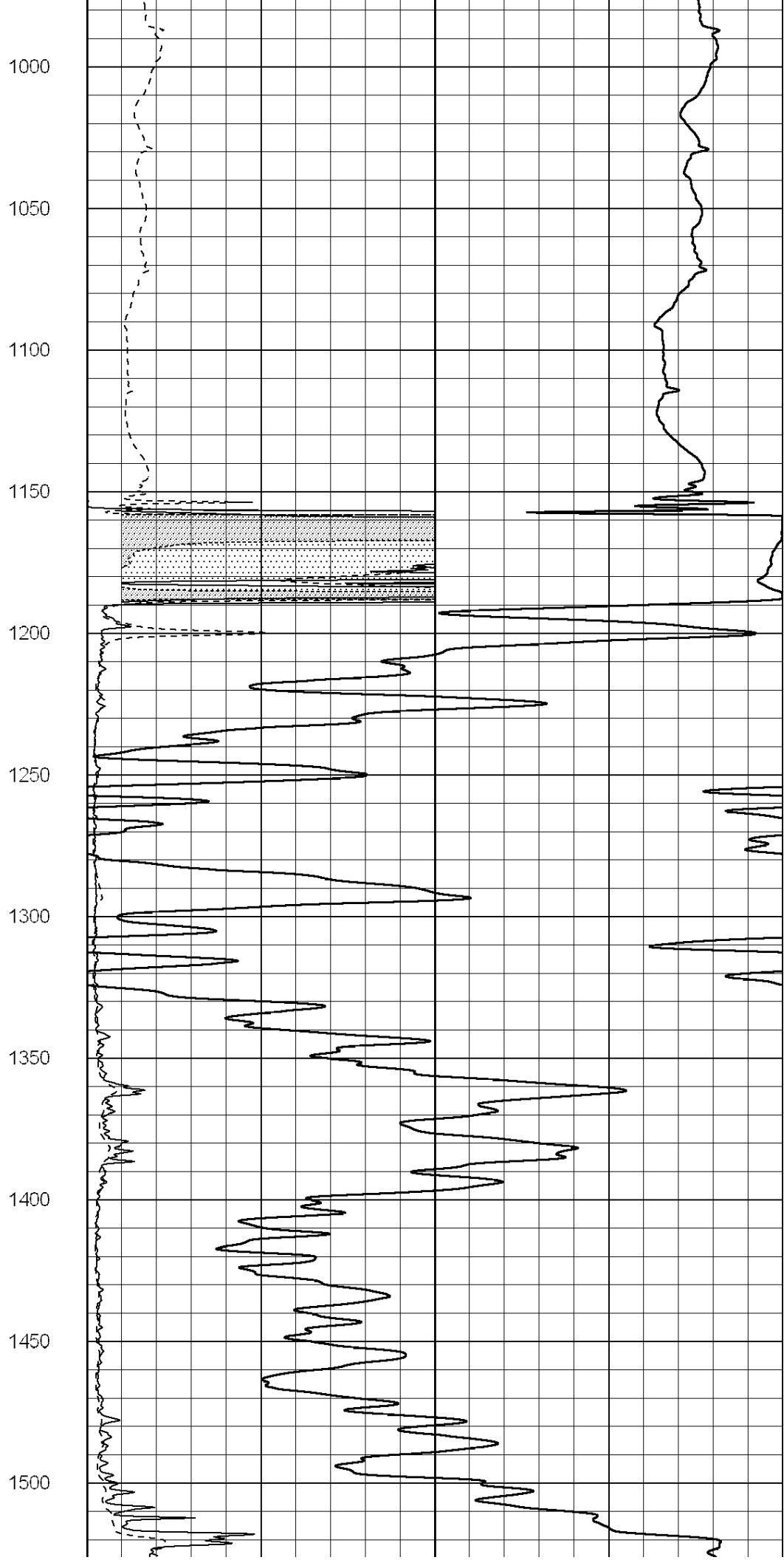
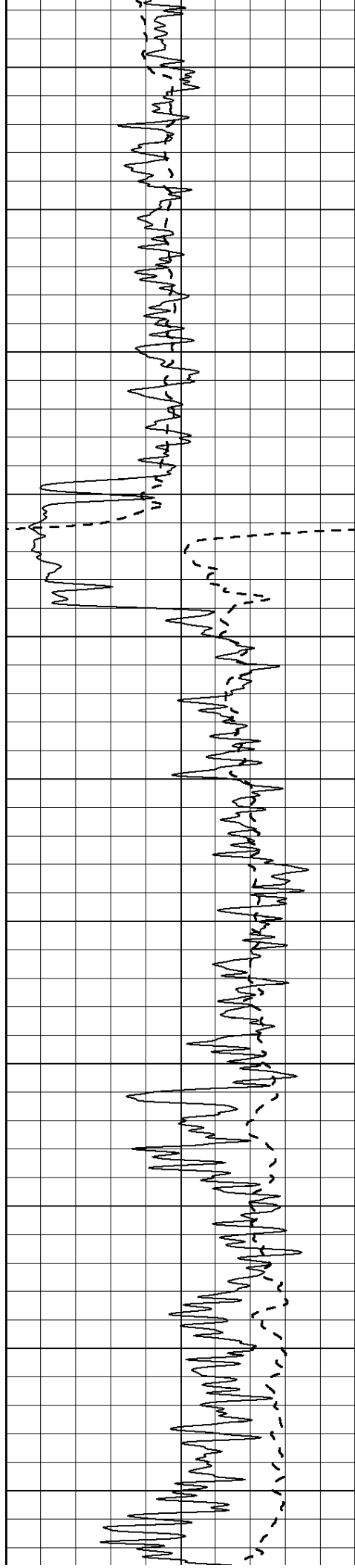
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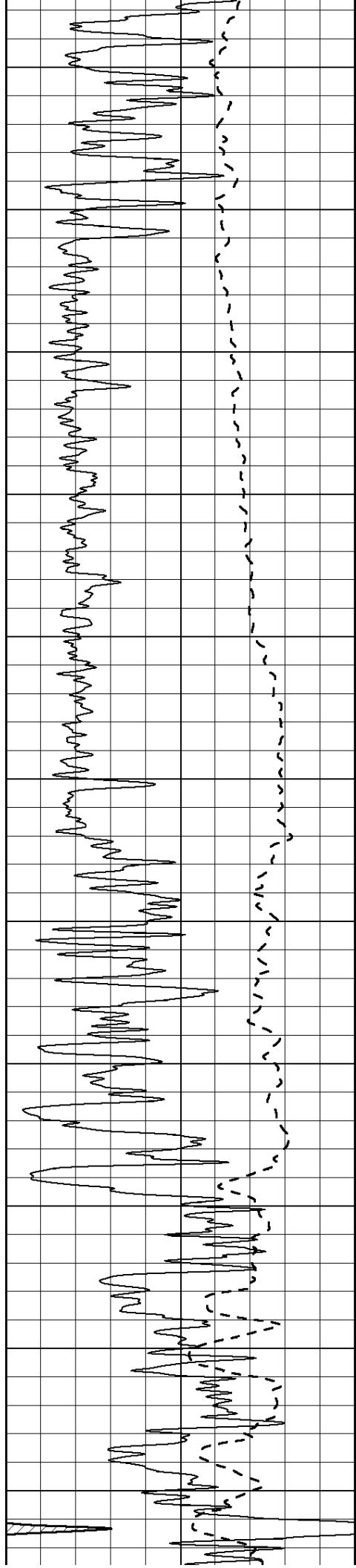
850

900

950







1550

1600

1650

1700

1750

1800

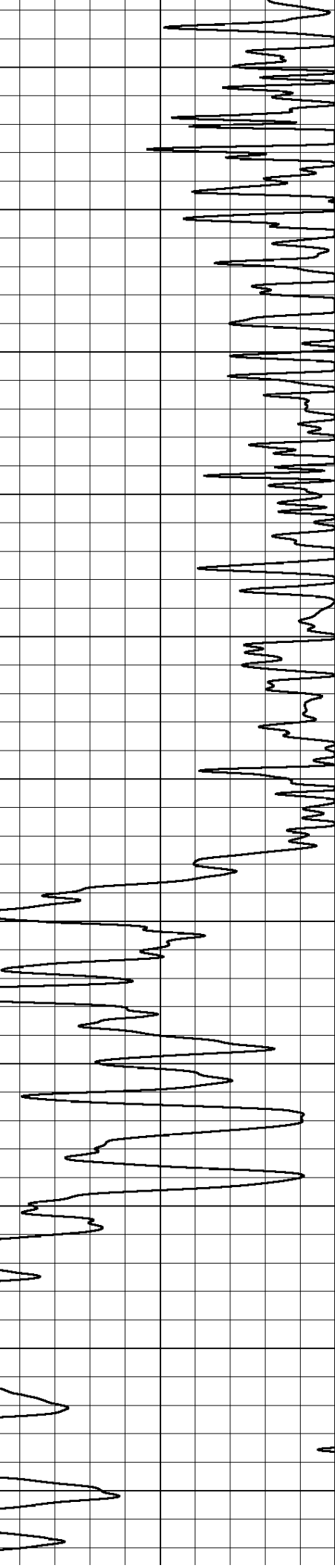
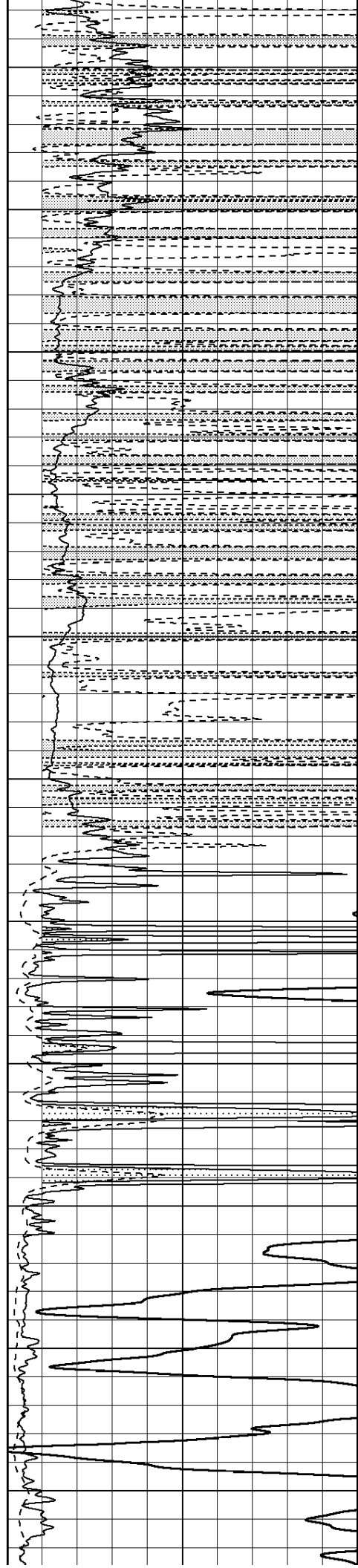
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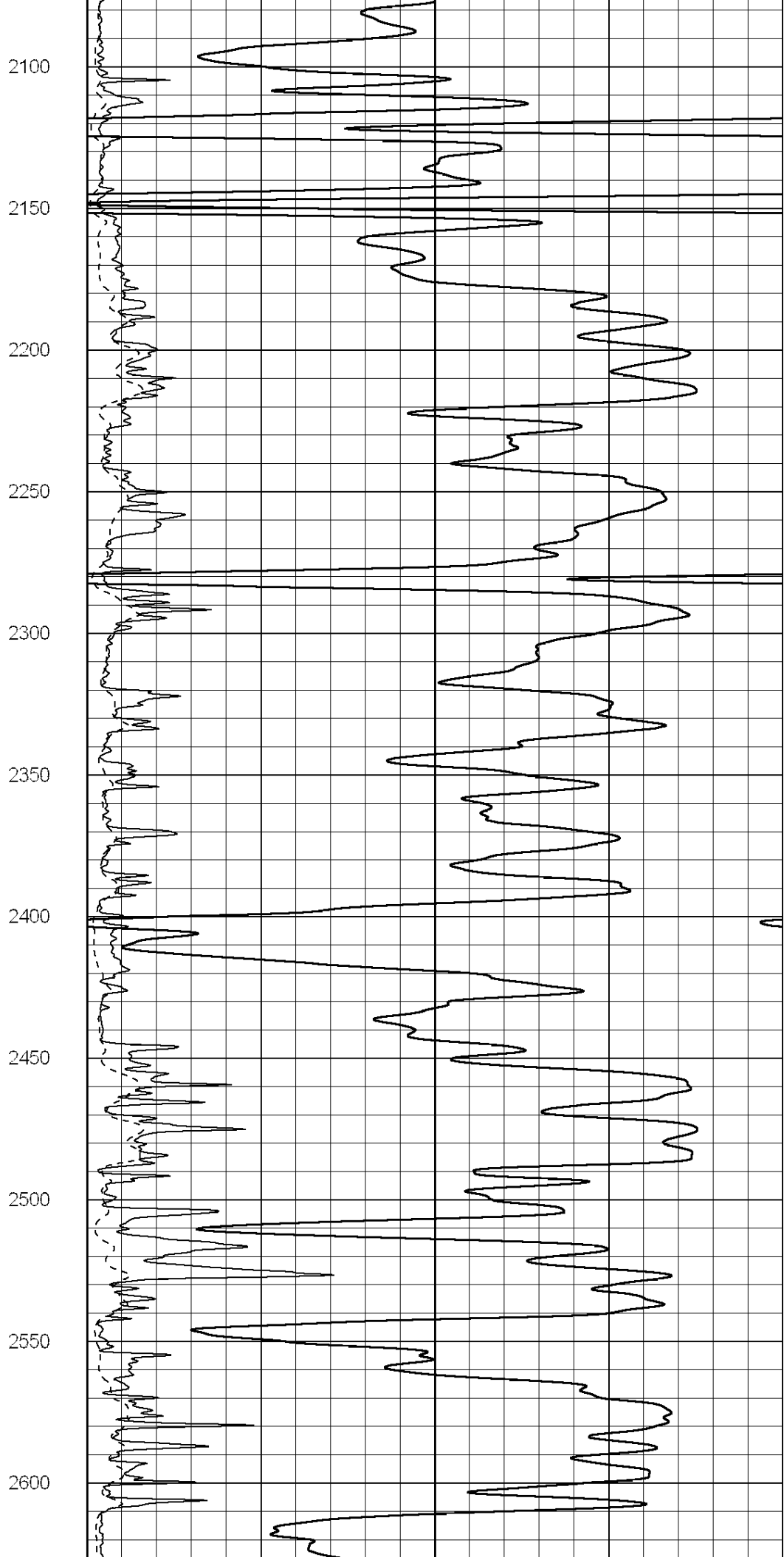
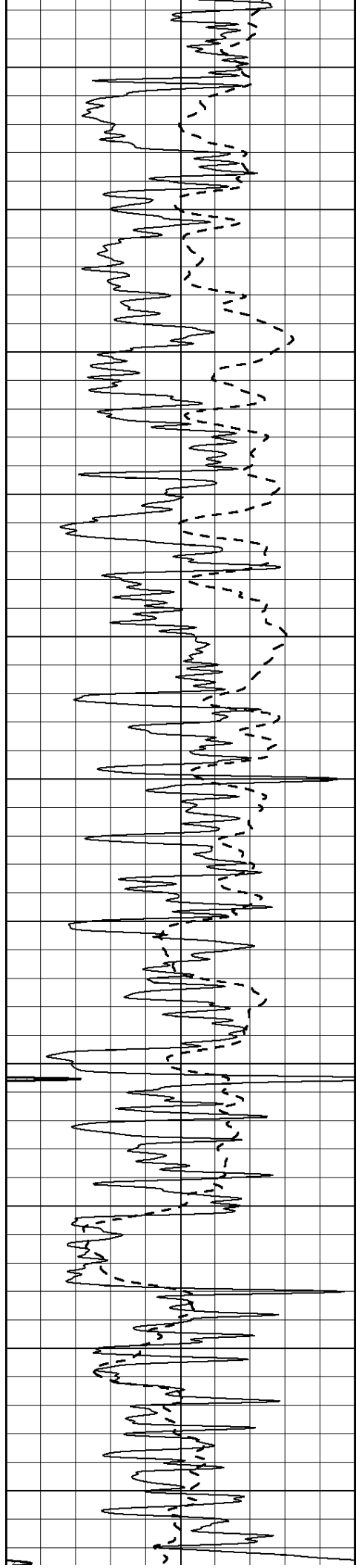
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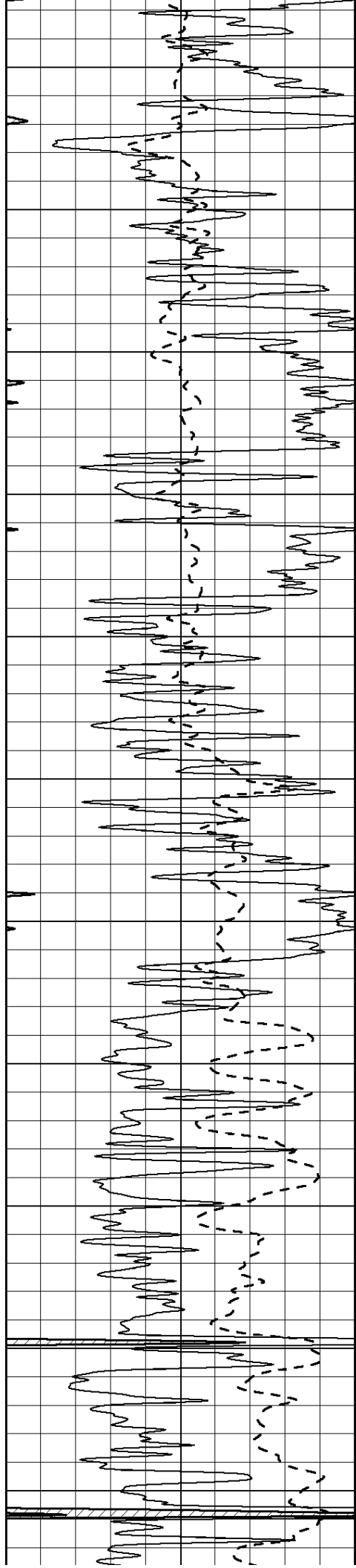
1950

2000

2050







2650

2700

2750

2800

2850

2900

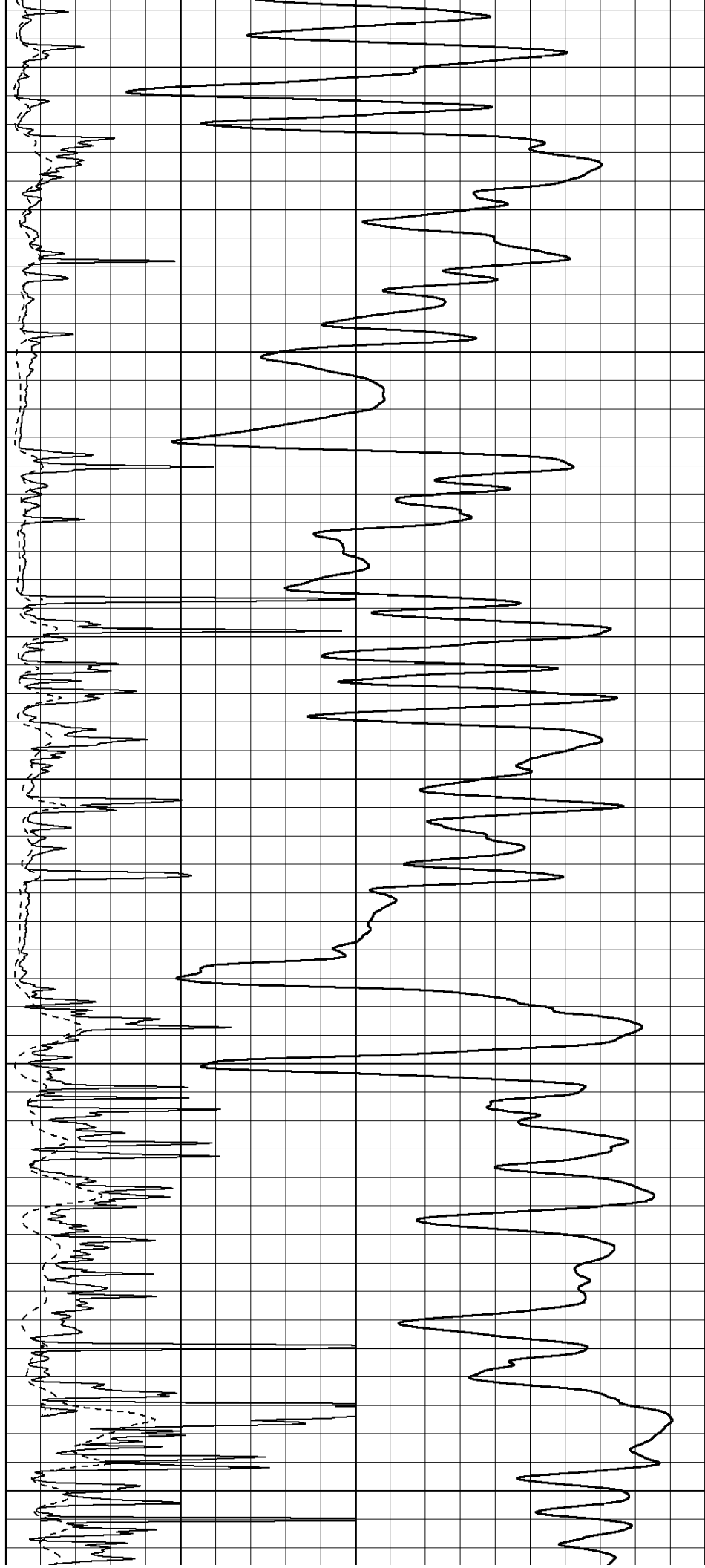
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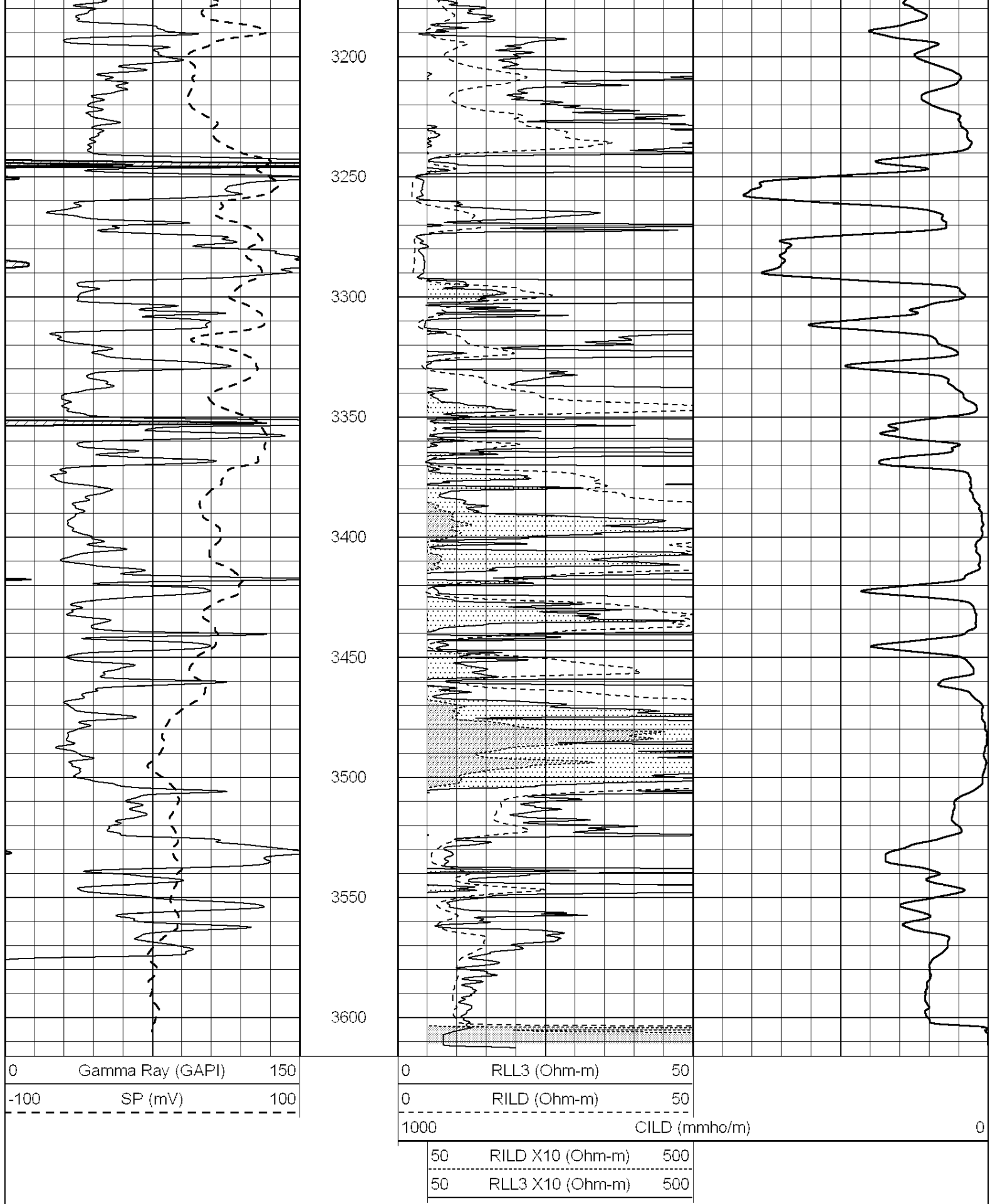
3000

3050

3100

3150



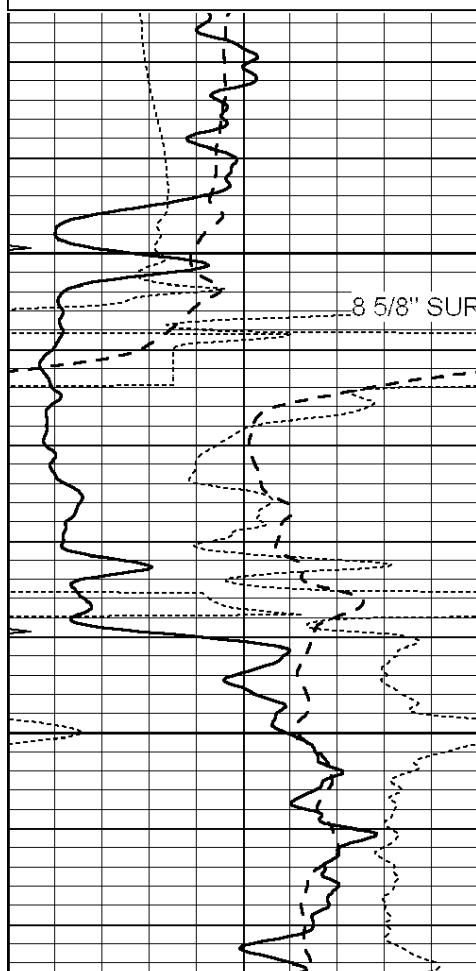


COMPLETION & PRODUCTION SERVICES CO.

Database File: 011695ddn.db
 Dataset Pathname: pass3.6
 Presentation Format: _dil
 Dataset Creation: Wed Oct 23 10:56:03 2013
 Charted by: Depth in Feet scaled 1:240

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

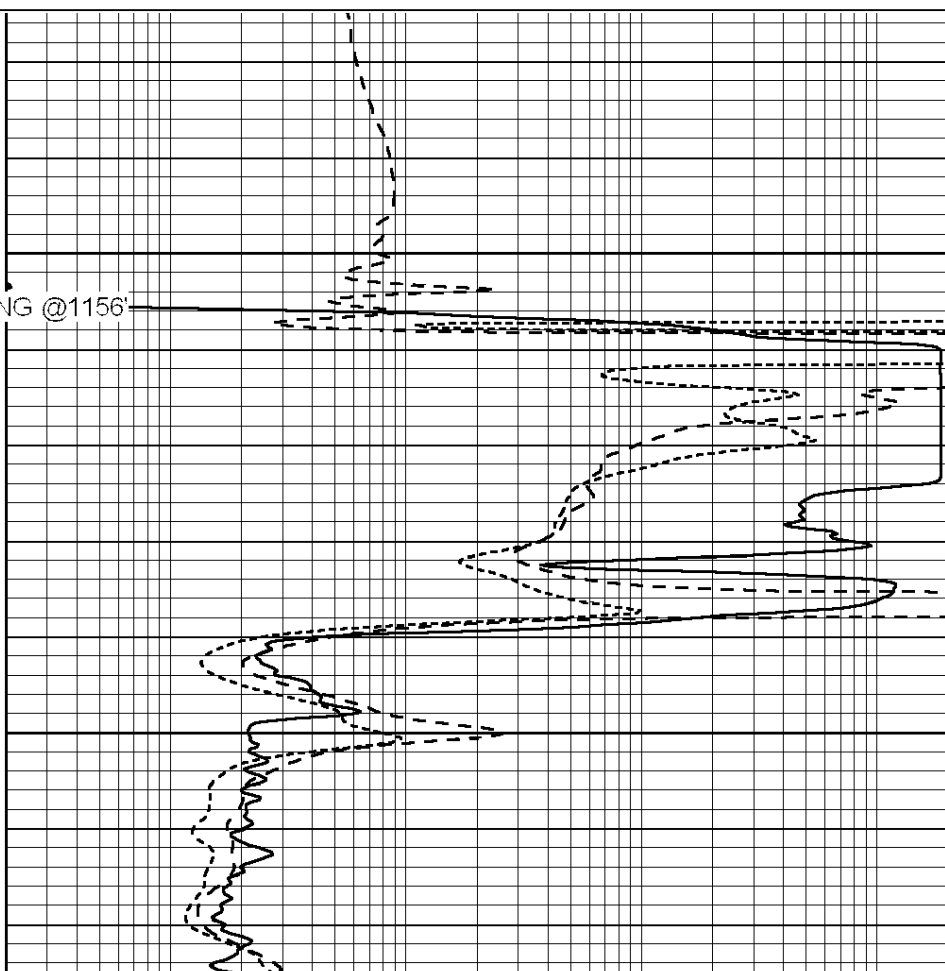
0.2	SHALLOW GUARD (Ohm-m)	2000
0.2	DEEP INDUCTION (Ohm-m)	2000
0.2	MEDIUM INDUCTION (Ohm-m)	2000



1150

8 5/8" SURFACE CASING @1156'

1200



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

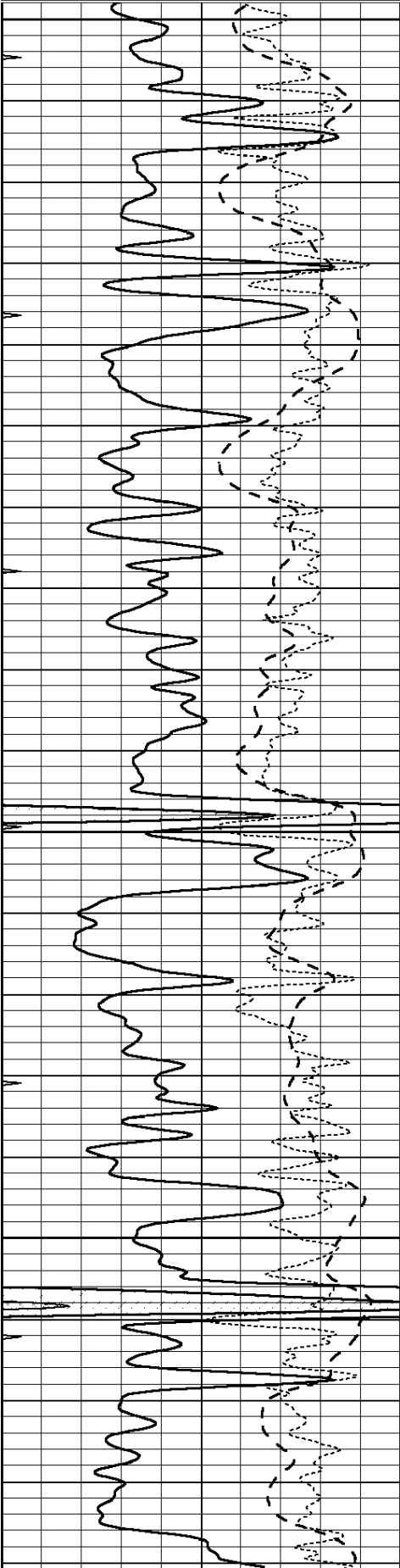
0.2	SHALLOW GUARD (Ohm-m)	2000
0.2	DEEP INDUCTION (Ohm-m)	2000
0.2	MEDIUM INDUCTION (Ohm-m)	2000



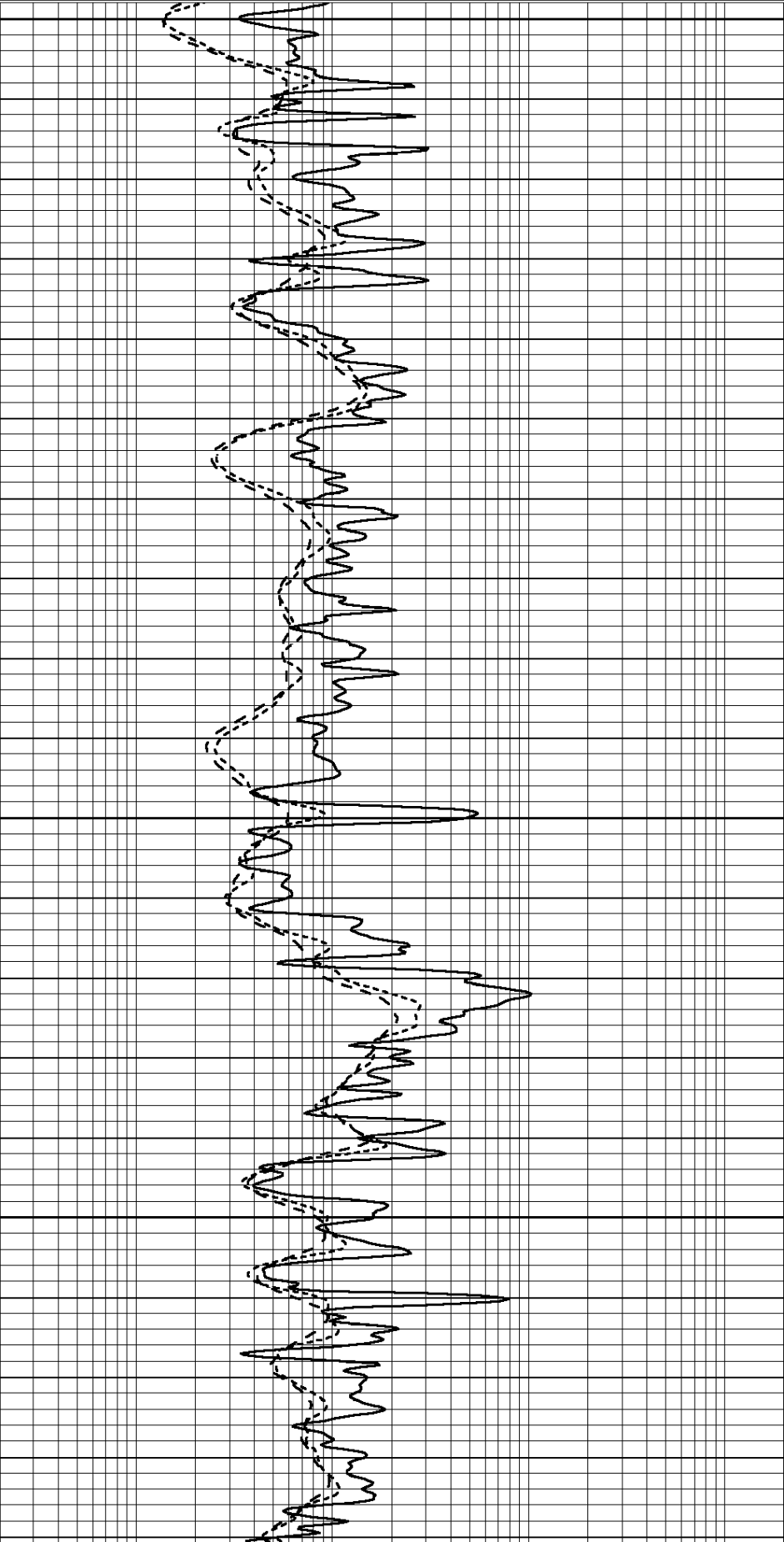
MAIN SECTION

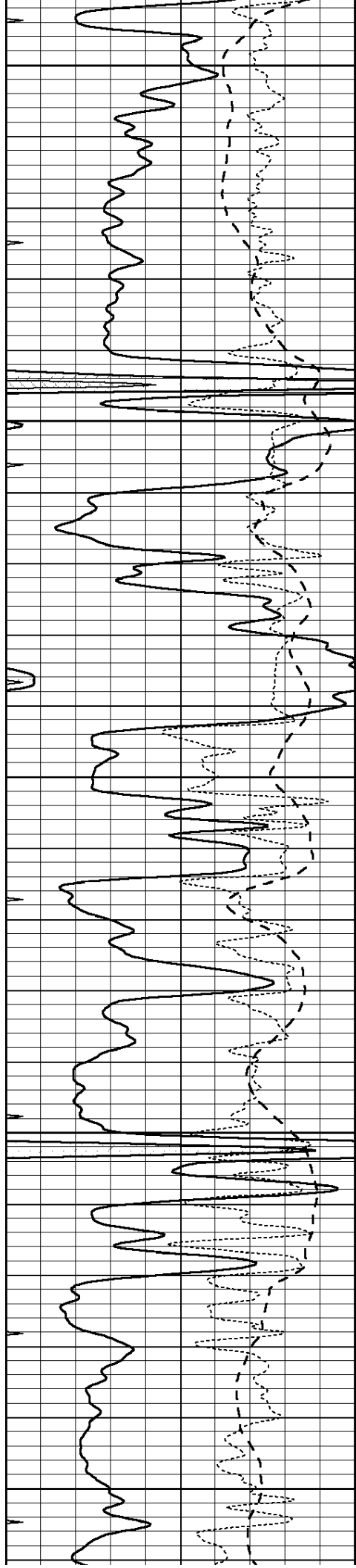
Database File: 011695ddn.db
 Dataset Pathname: pass3.5
 Presentation Format: _dil
 Dataset Creation: Wed Oct 23 10:55:38 2013

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





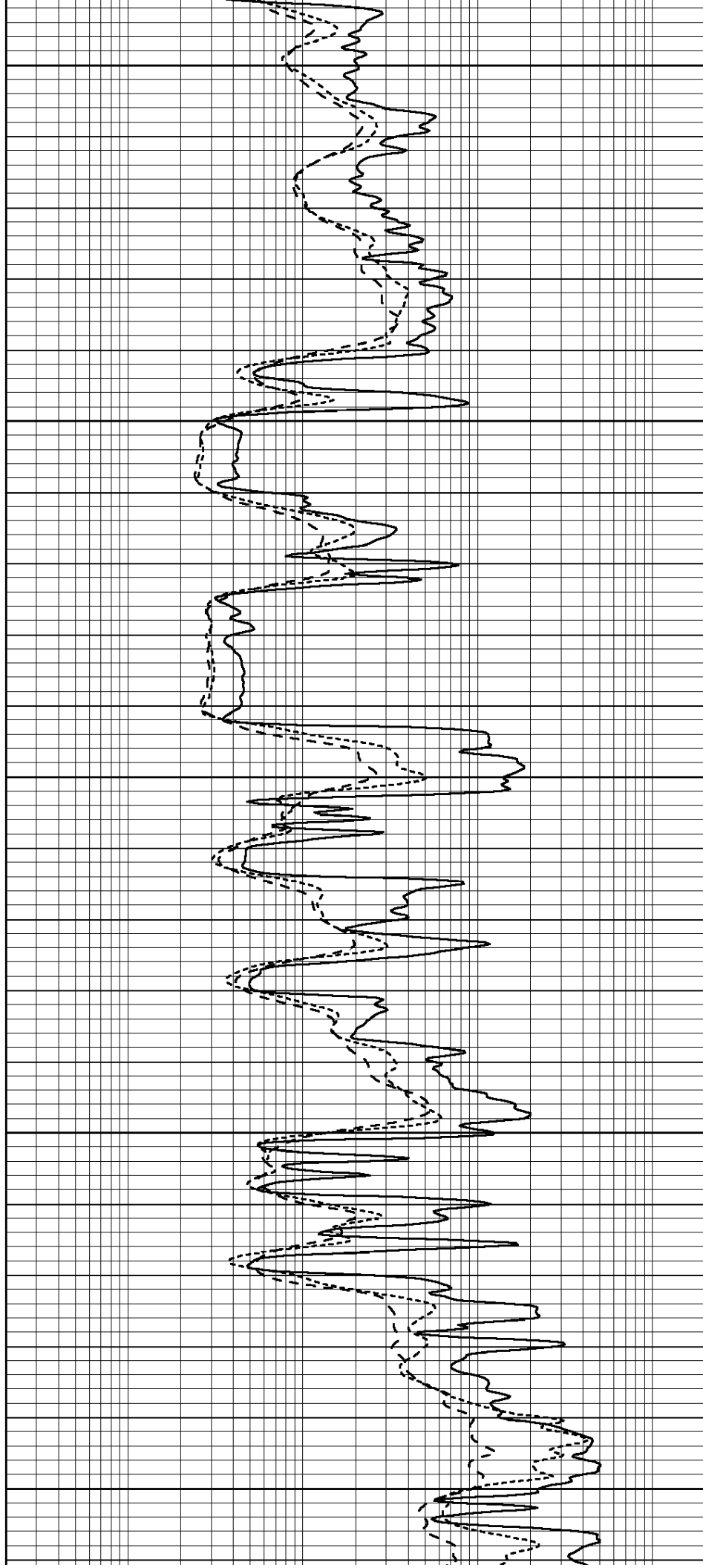
3200

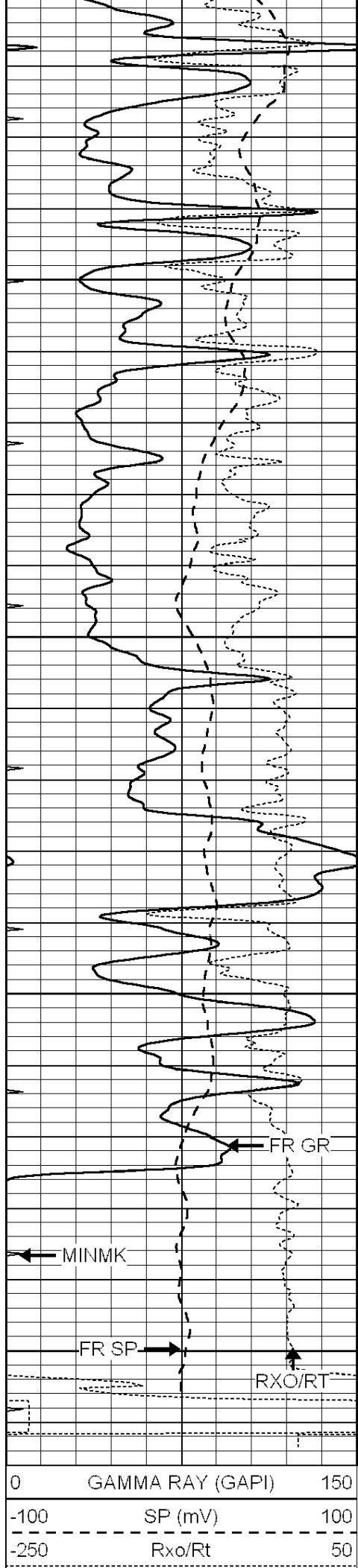
3250

3300

3350

3400





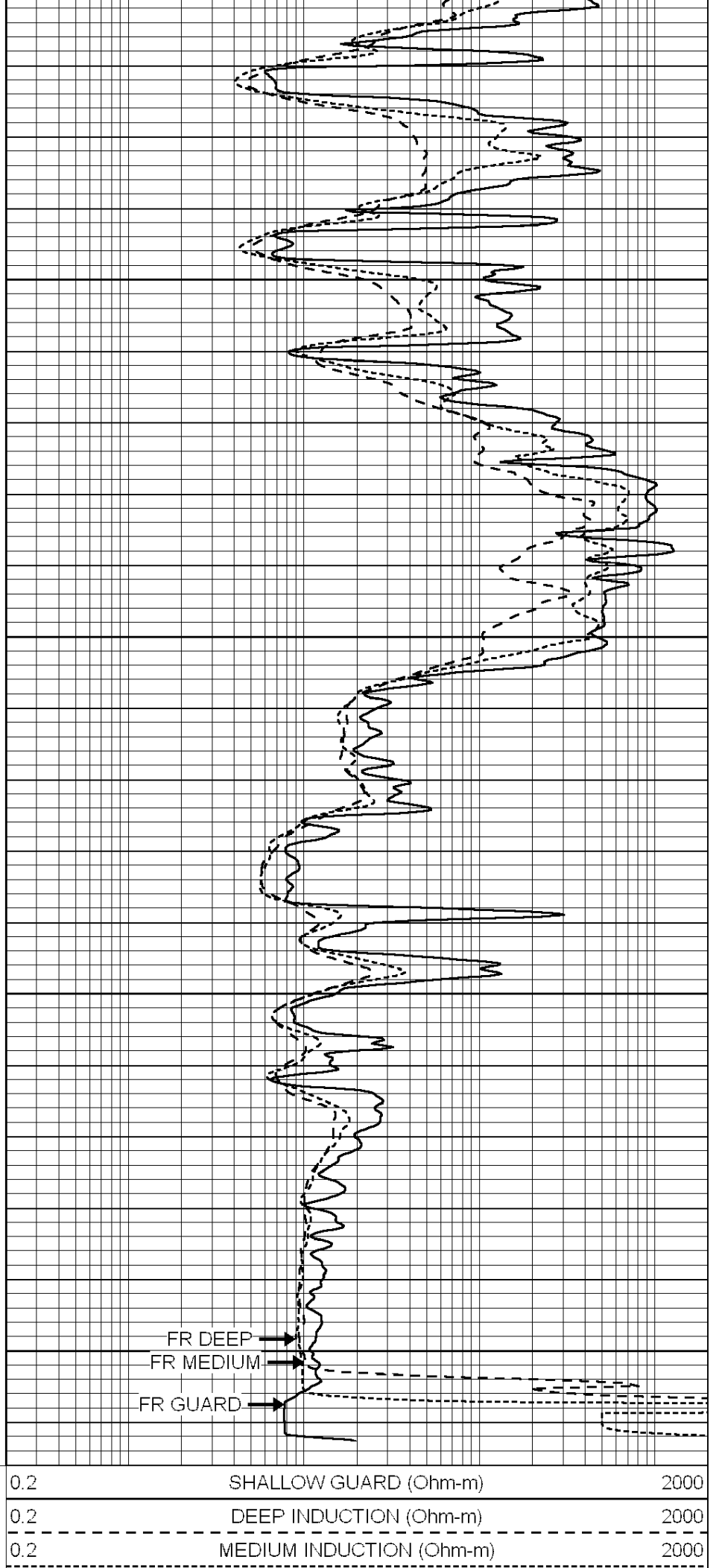
3450

3500

3550

3600

LTD 3610



FR DEEP

FR MEDIUM

FR GUARD

NABORS

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REPEAT SECTION

Database File:

011695ddn.db

Dataset Pathname:

pass2.3

Presentation Format:

_dil

Dataset Creation:

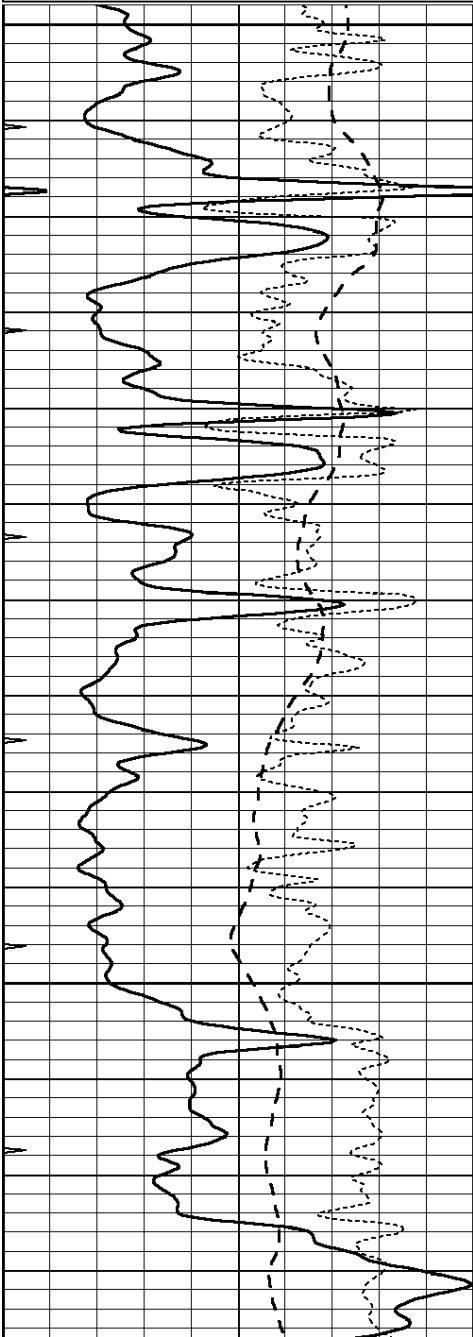
Wed Oct 23 09:44:33 2013

Charted by:

Depth in Feet scaled 1:240

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

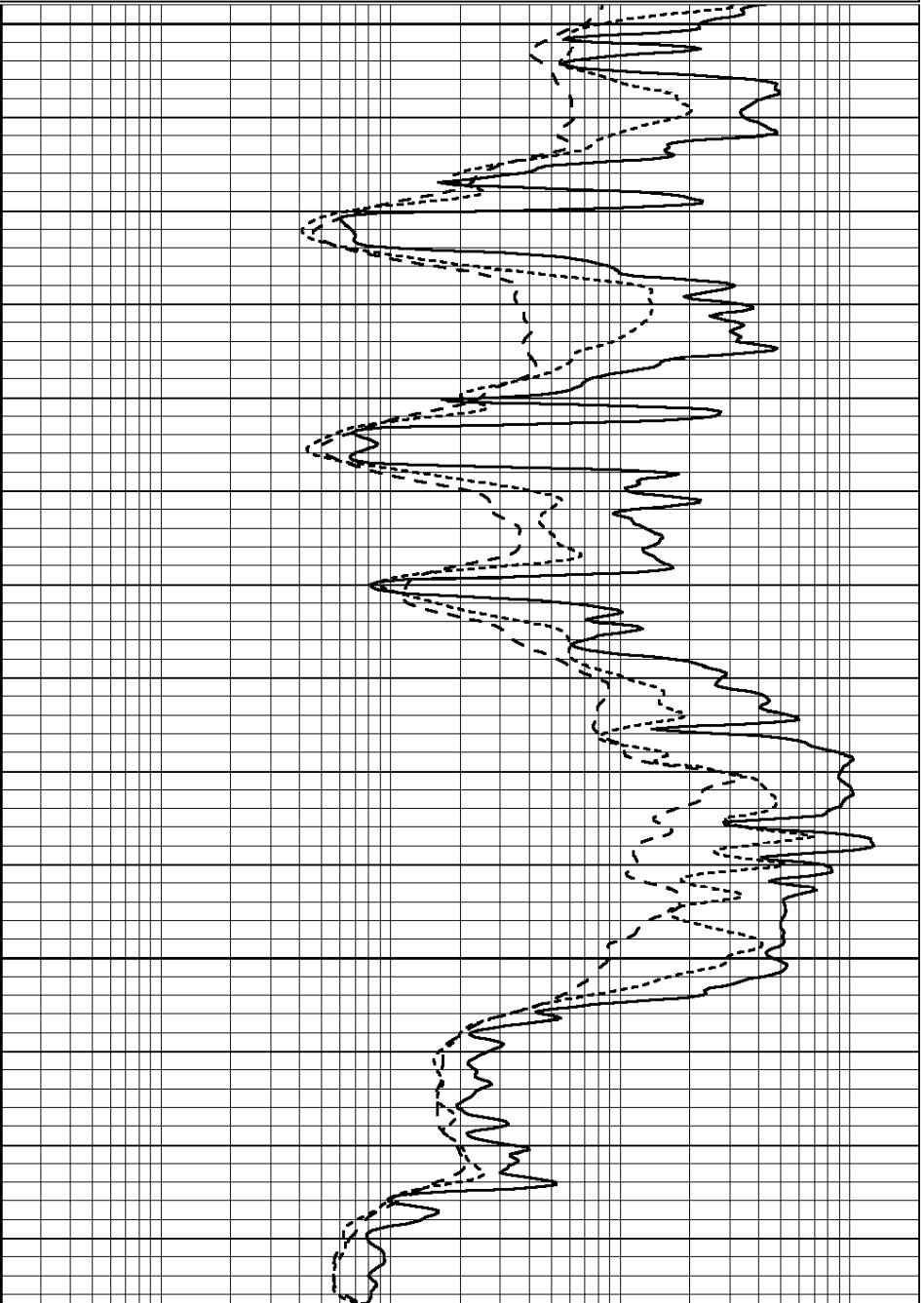
0.2	SHALLOW GUARD (Ohm-m)	2000
0.2	DEEP INDUCTION (Ohm-m)	2000
0.2	MEDIUM INDUCTION (Ohm-m)	2000

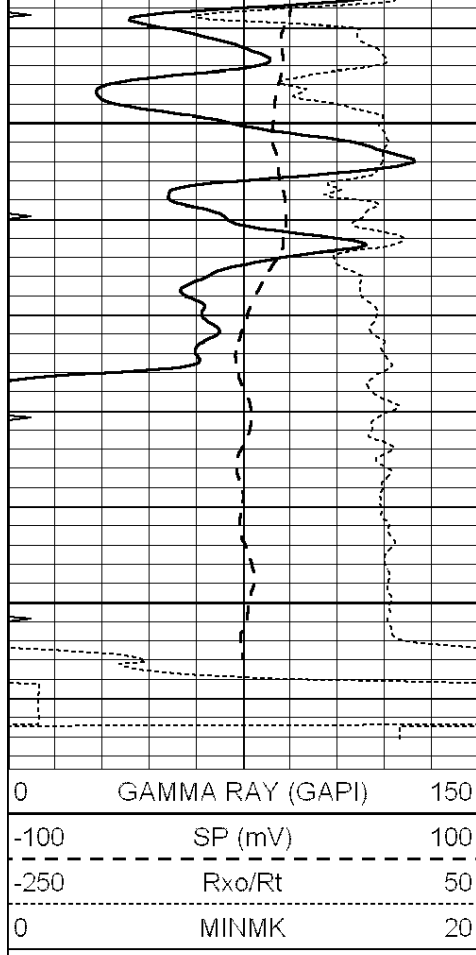


3400

3450

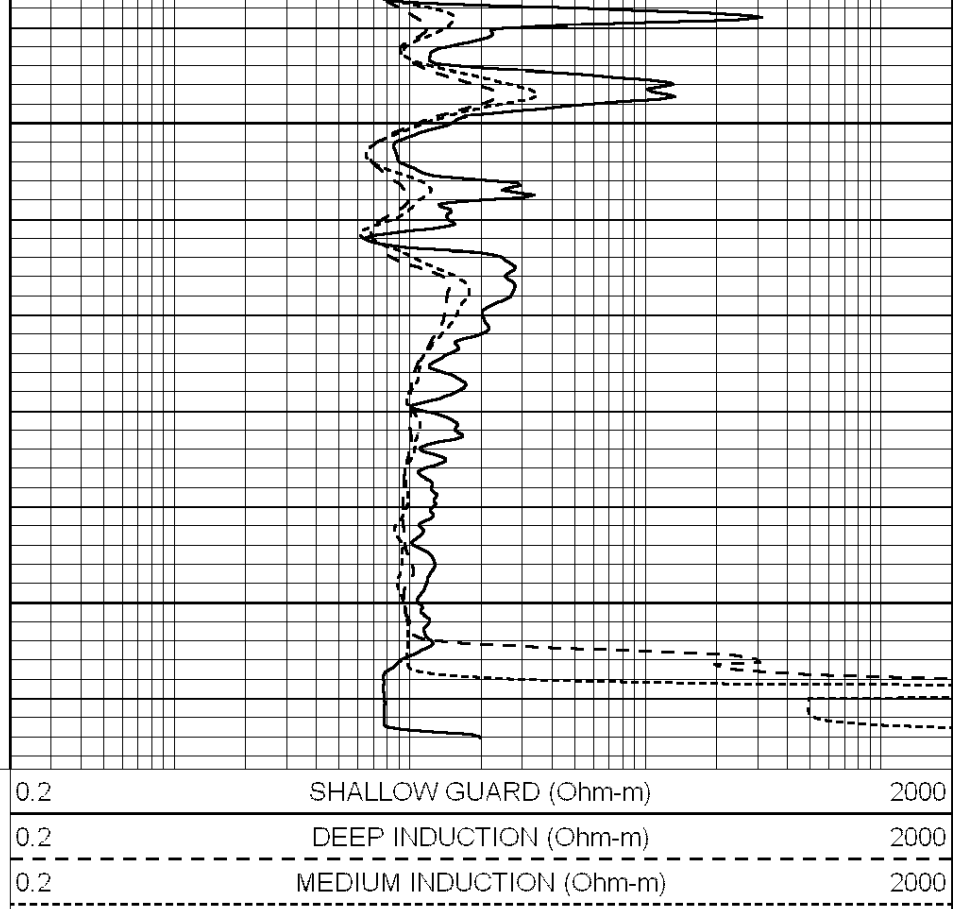
3500





3550

3600



Calibration Report

Database File: 011695ddn.db
 Dataset Pathname: pass3.5
 Dataset Creation: Wed Oct 23 10:55:38 2013

Dual Induction Calibration Report

Serial-Model: PROBE9-DILG
 Surface Cal Performed: Wed Oct 23 09:31:55 2013
 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	650.000	-4.000
Medium	0.039	0.728	V	0.000	464.000	mmho/m	640.000	-9.000
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		

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:	Mon Oct 21 18:53:38 2013		
Calibrator Value:	1.0	GAPI	
Background Reading:	0.0	cps	
Calibrator Reading:	1.0	cps	
Sensitivity:	0.3000	GAPI/cps	