



NABORS

**COMPLETION
& PRODUCTION
SERVICES CO.**

DUAL INDUCTION LOG

Company	SHELBY RESOURCES, LLC.		
Well	McCURRY #1-24		
Field			
County	BARTON	State	KANSAS
Location:	AP1 # : 15-009-26114-0000		Other Services CDL/CNL MEL/SONIC
SEC 24 TWP 18S RGE 14W		Elevation	
Permanent Datum	GROUND LEVEL	Elevation	1897
Log Measured From	KELLY BUSHING 11' A.G.L.	K.B. 1908 D.F. 1906 G.L. 1897	
Drilling Measured From	KELLY BUSHING		
Date	8/3/15		
Run Number	ONE		
Depth Driller	3500		
Depth Logger	3502		
Bottom Logged Interval	3500		
Top Log Interval	00		
Casing Driller	8 5/8" @ 846		
Casing Logger	848		
Bit Size	7 7/8"		
Type Fluid in Hole	CHEMICAL MUD	CHLORIDES 4800 PPM	
Density / Viscosity	9.2/48		
pH / Fluid Loss	11.5/9.2		
Source of Sample	FLOWLINE		
Rm @ Meas. Temp	.75 @ 95F		
Rmt @ Meas. Temp	.56 @ 95F		
Rmc @ Meas. Temp	.90 @ 95F		
Source of Rmt / Rmc	MEASUREMENT		
Rm @ BHT	.84 @ 112F		
Time Circulation Stopped	2 HOURS		
Time Logger on Bottom			
Maximum Recorded Temperature	112F		
Equipment Number	4010		
Location	HAYS, KANSAS		
Recorded By	JASON CAPELLUCCI		
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 NABORS, HAYS, KS. (785) 628-6395
DIRECTIONS:
HWY 4 & 281 SOUTH TO CURVE EAST - BACK TO SOUTH CURVE - 1 SOUTH TO 70 RD
3/4 EAST - NORTH INTO

Database File:

30513ddn.db

Dataset Pathname:

pass3.3

Presentation Format:

_dil2

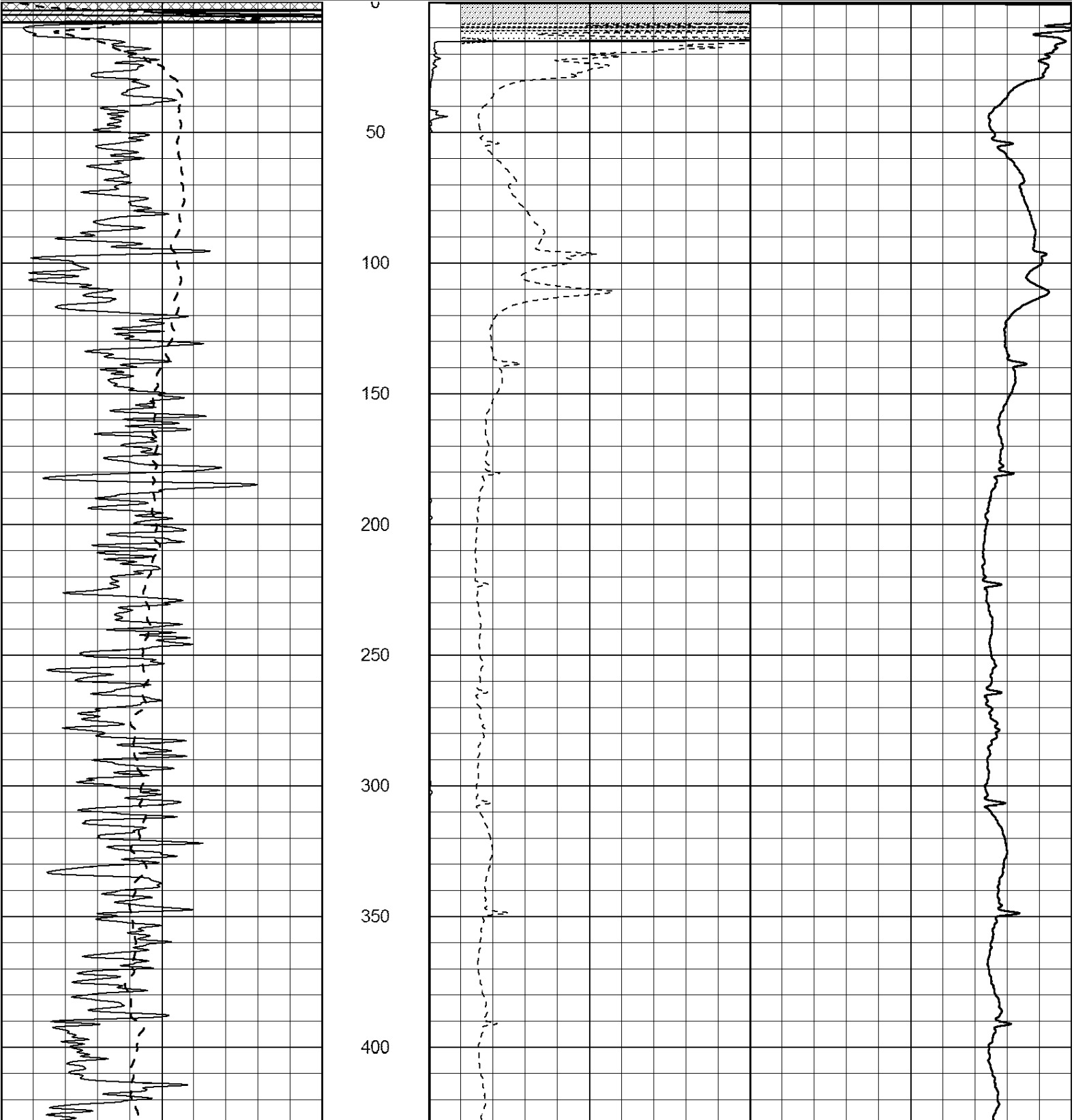
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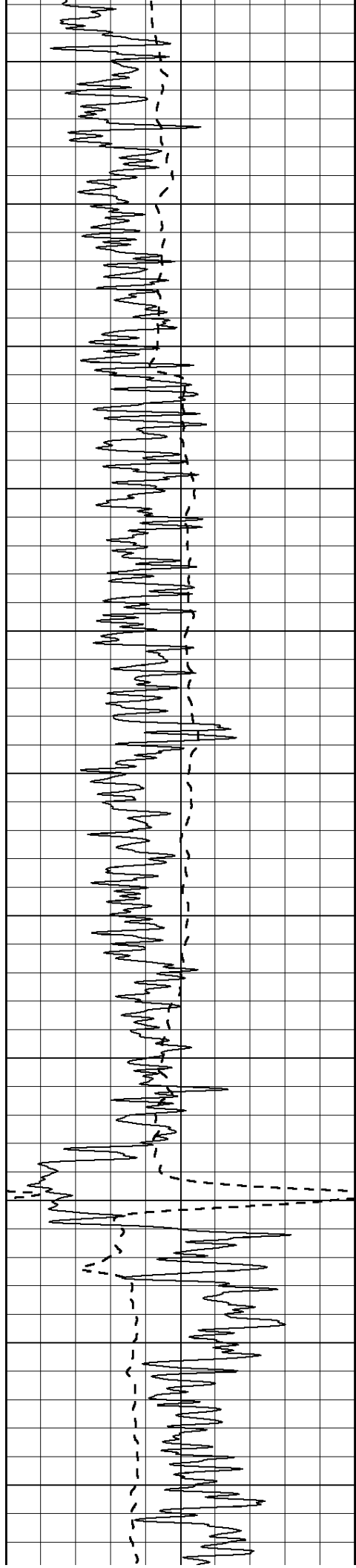
Mon Aug 03 20:25:19 2015 by Calc Open-Cased 090629

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

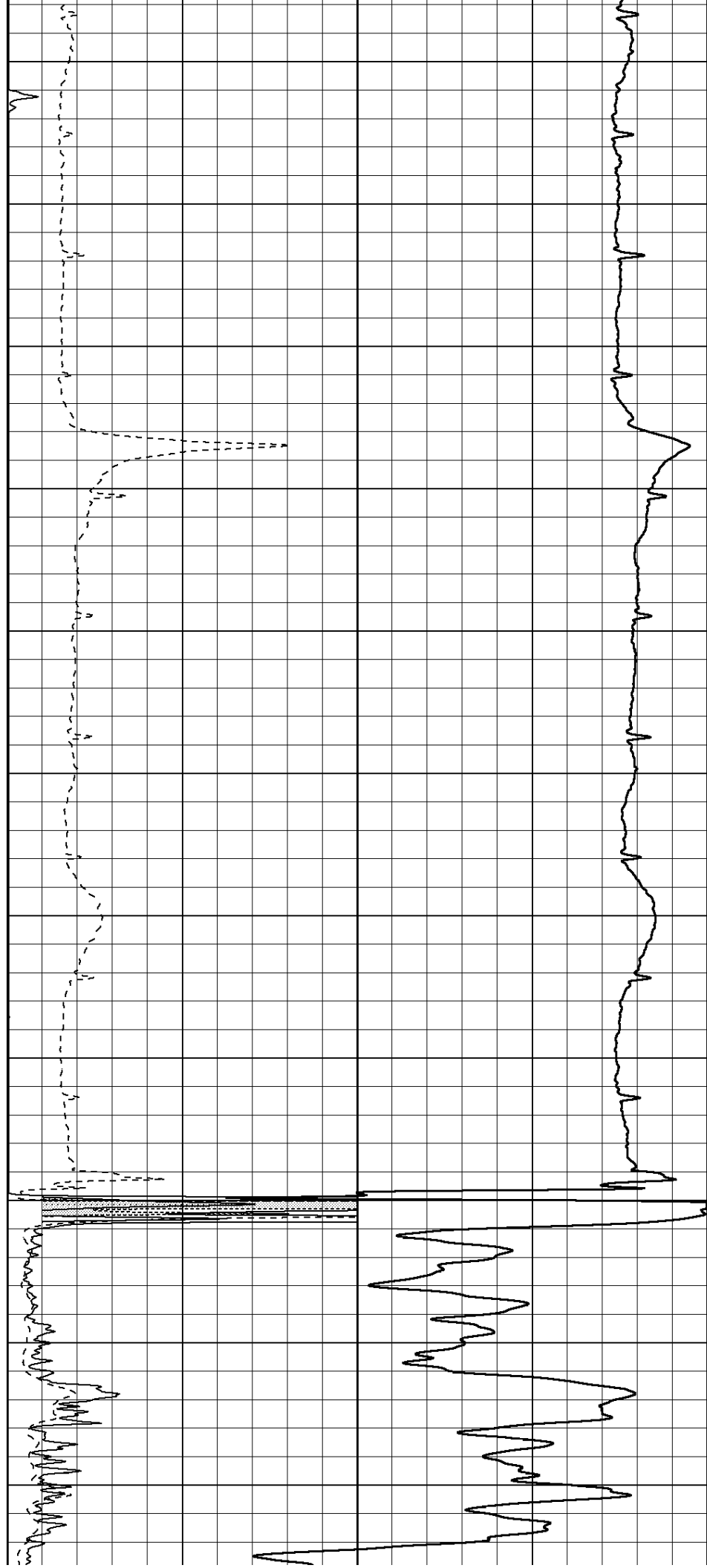
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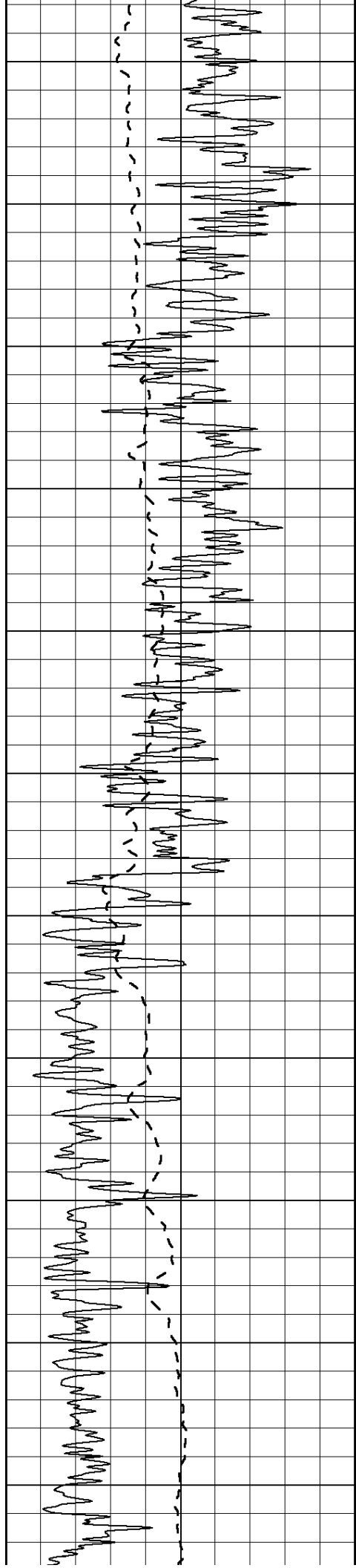
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850

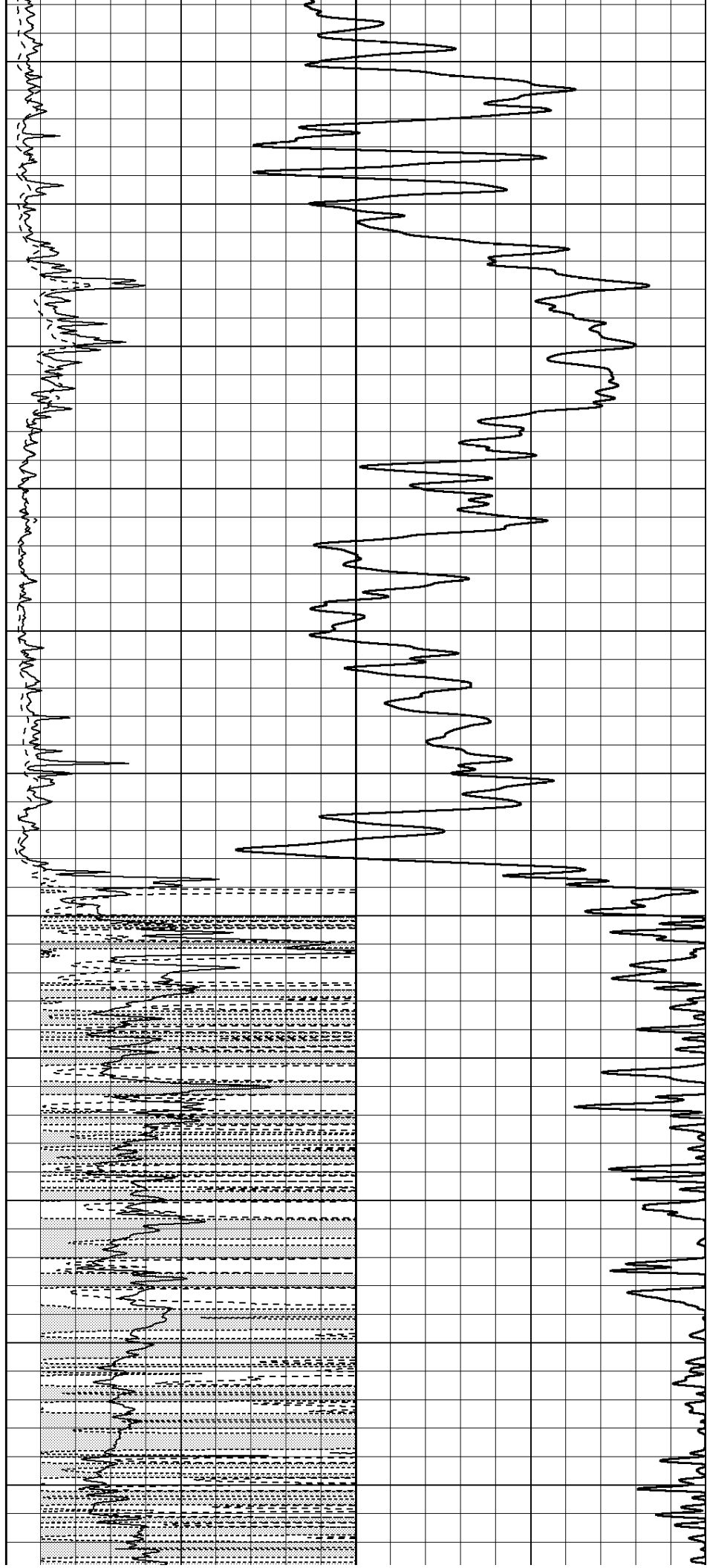
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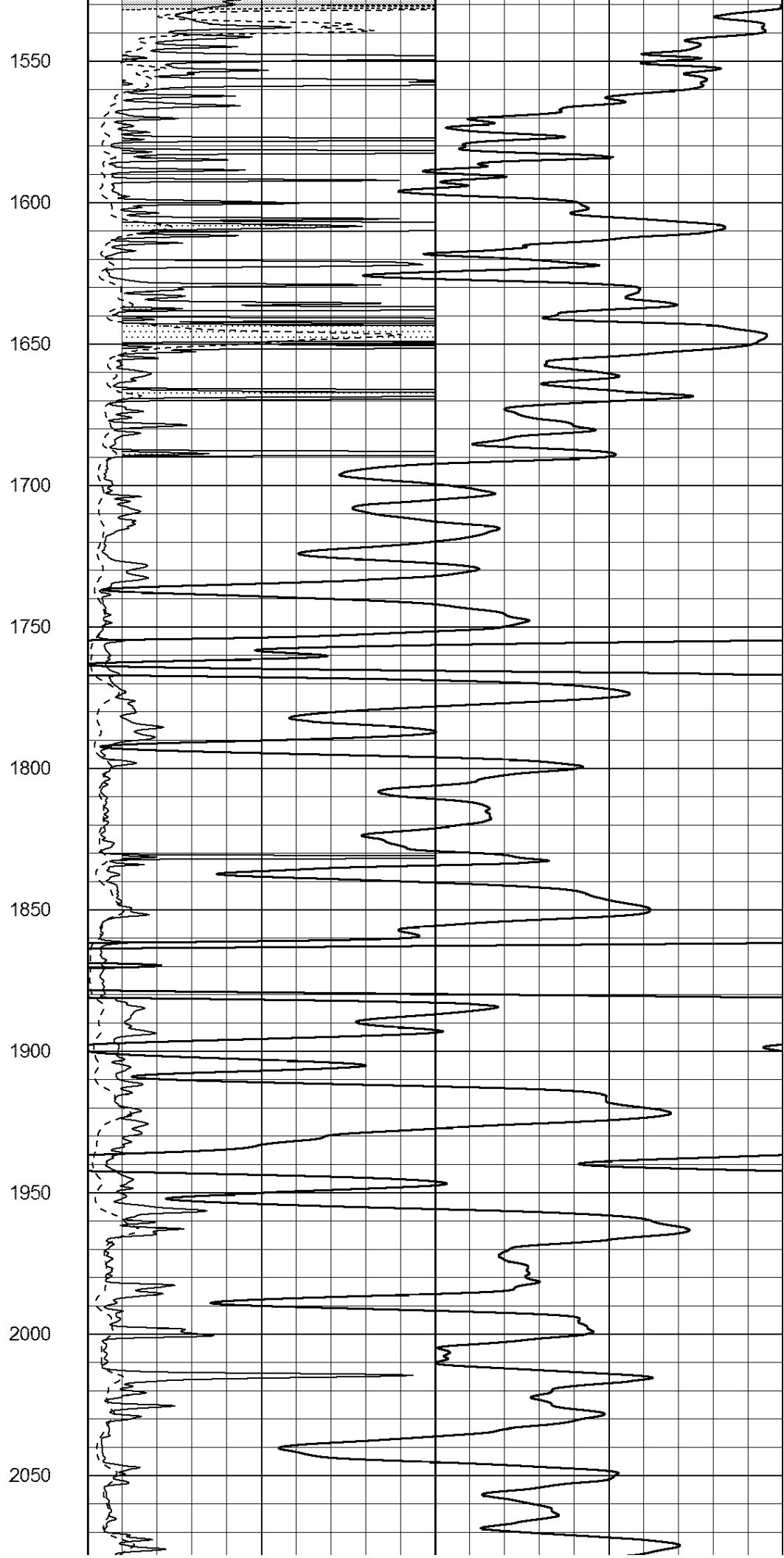
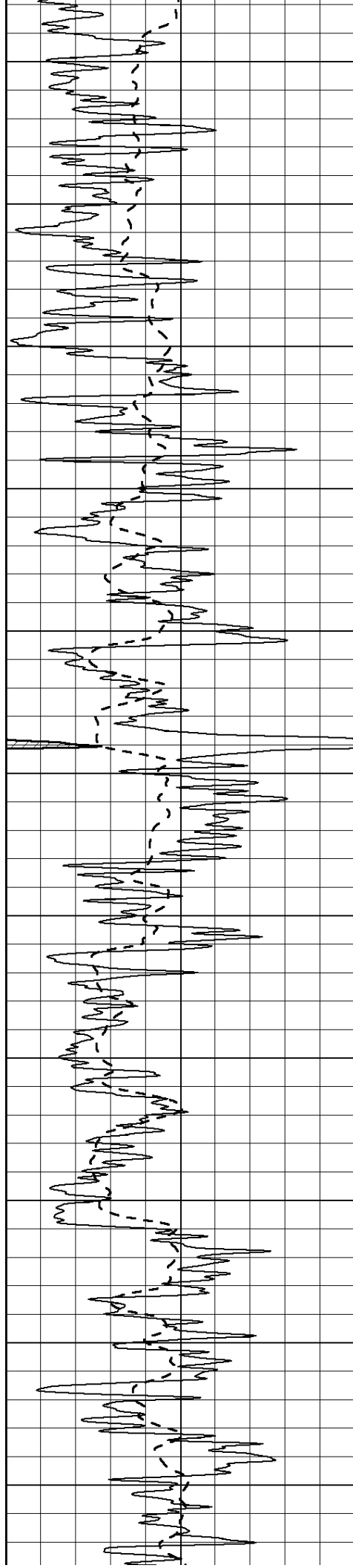
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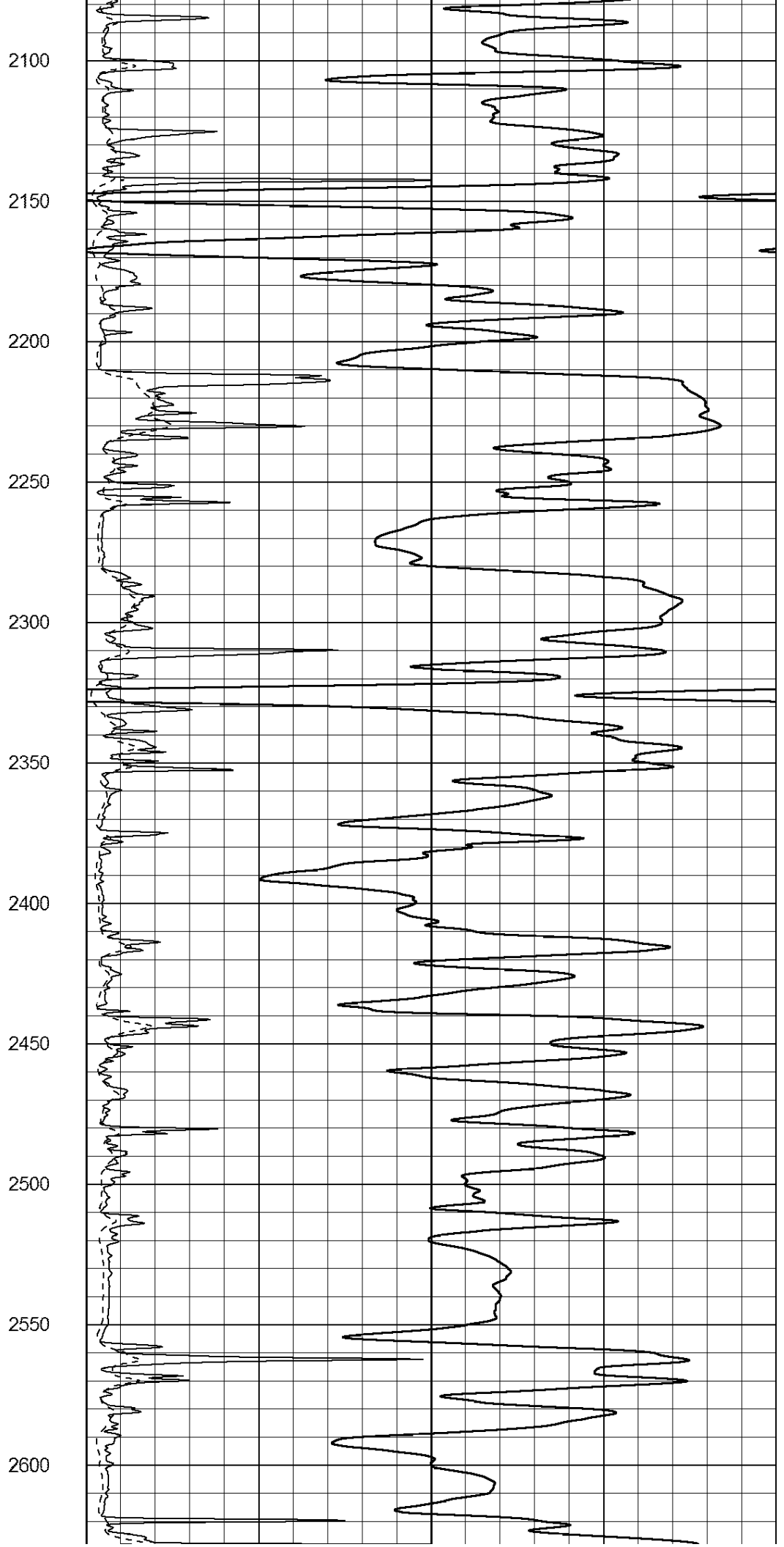
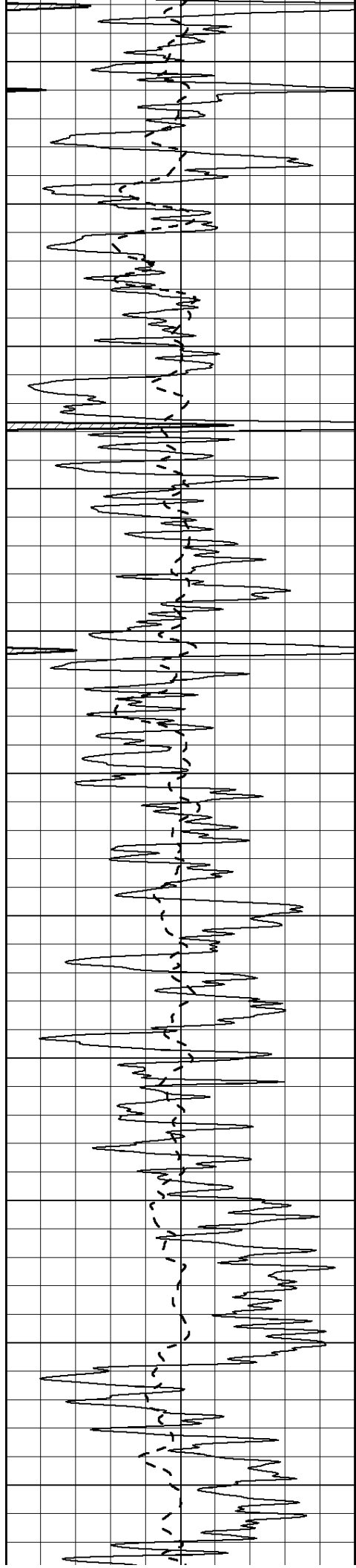


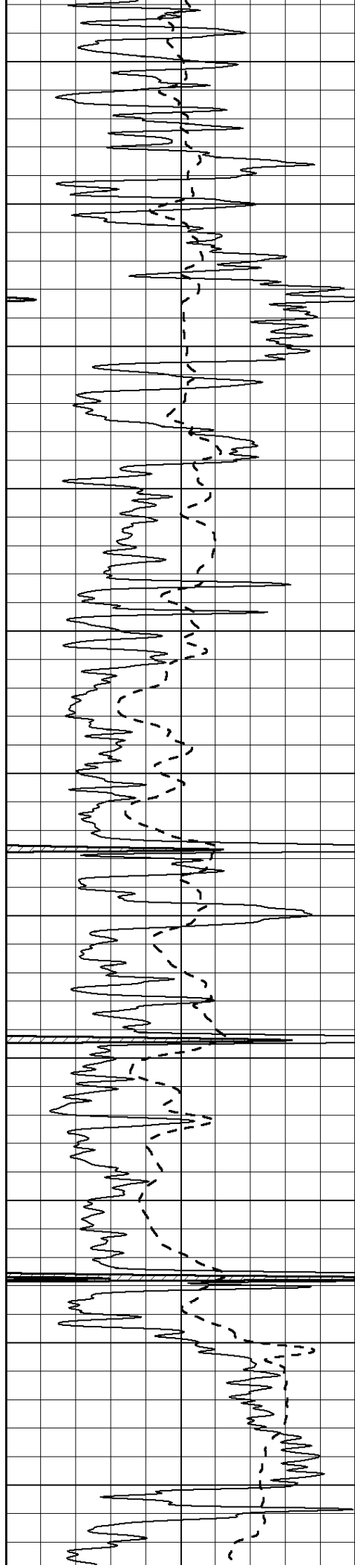


1000
1050
1100
1150
1200
1250
1300
1350
1400
1450
1500









2650

2700

2750

2800

2850

2900

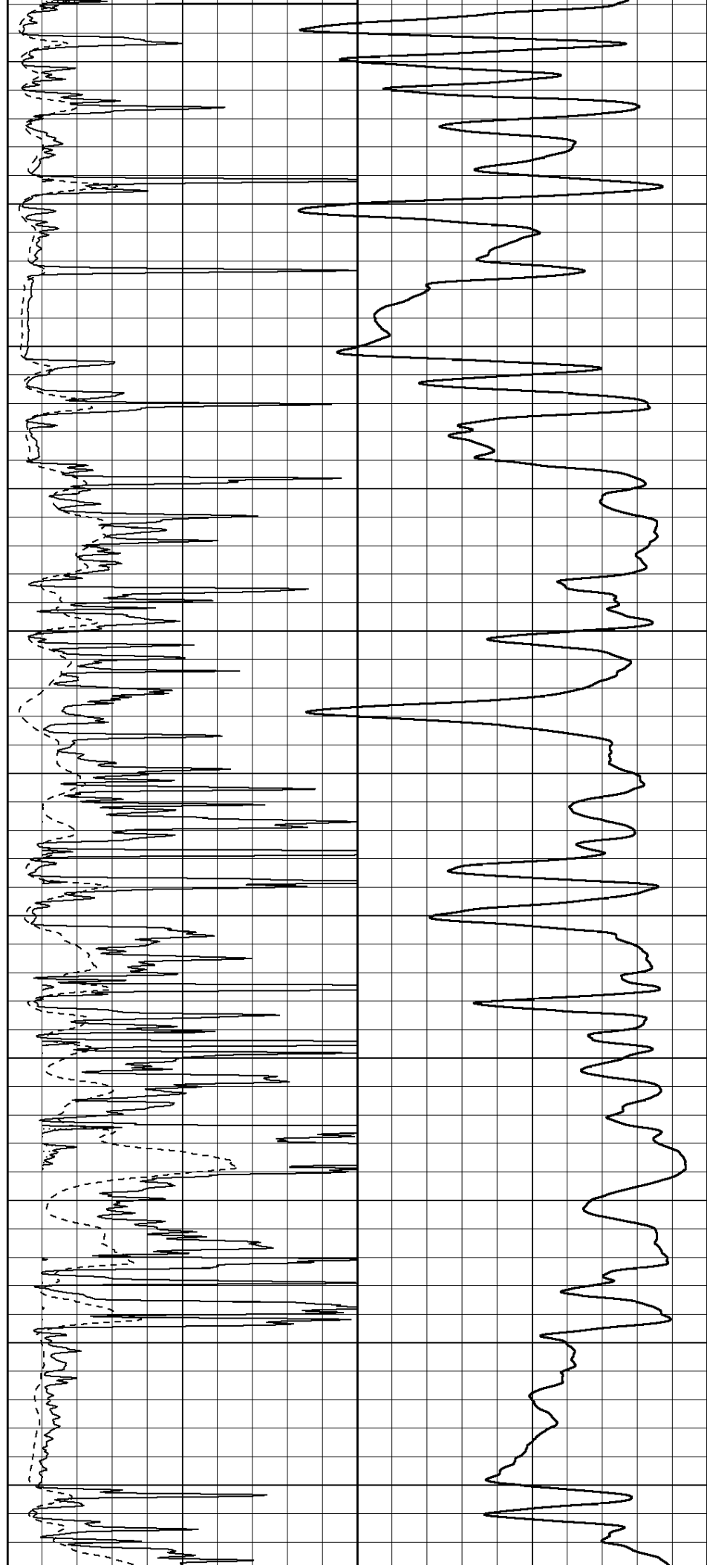
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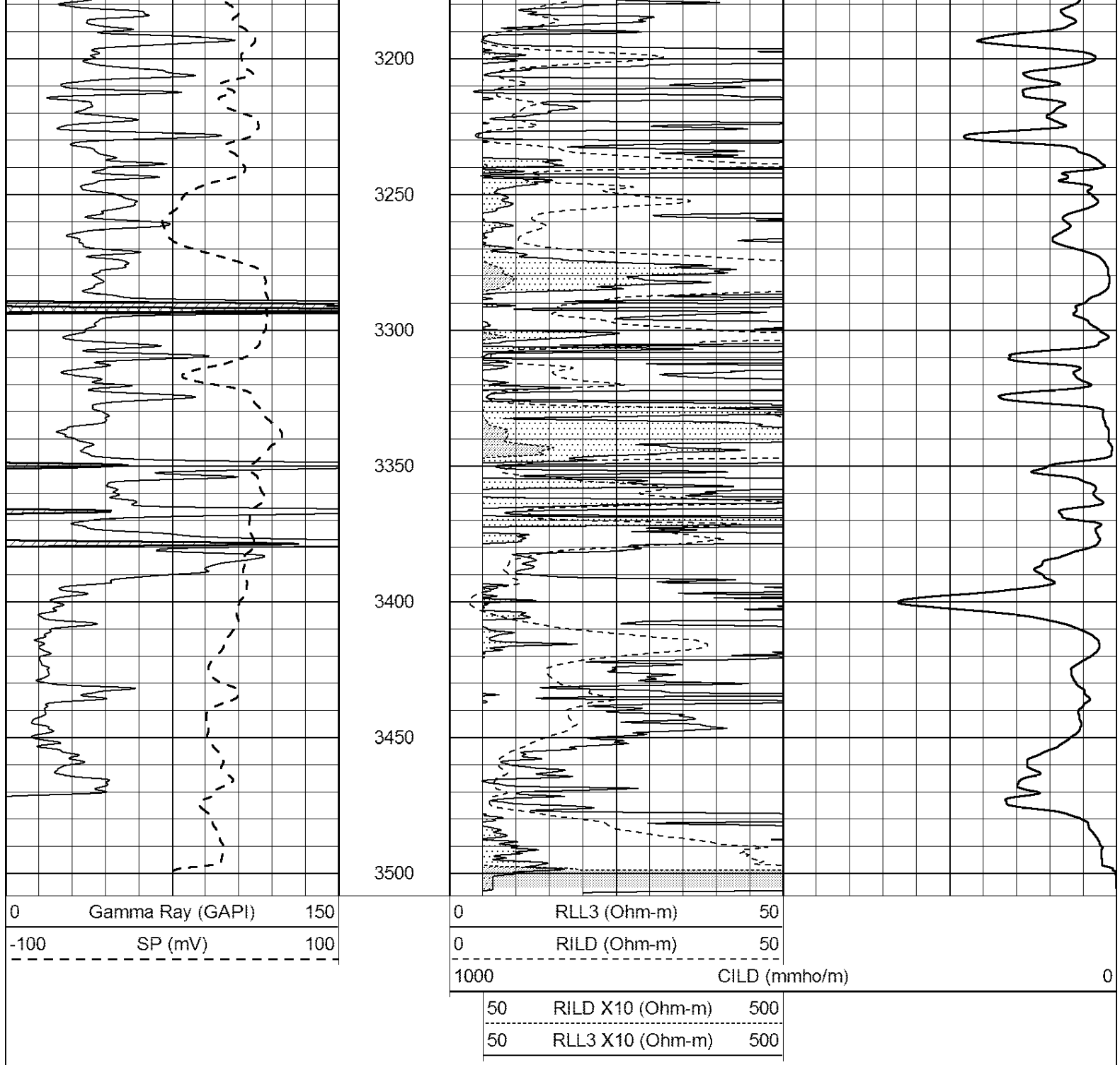
3000

3050

3100

3150





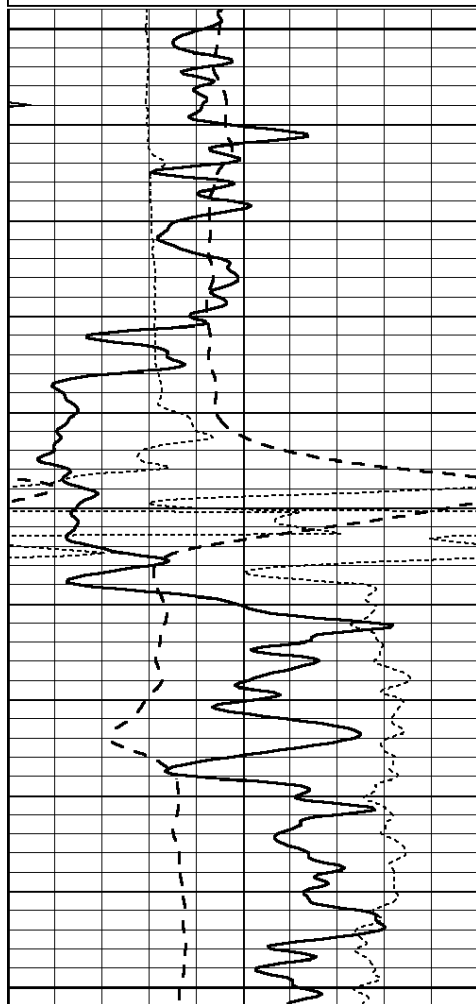
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ANHYDRITE

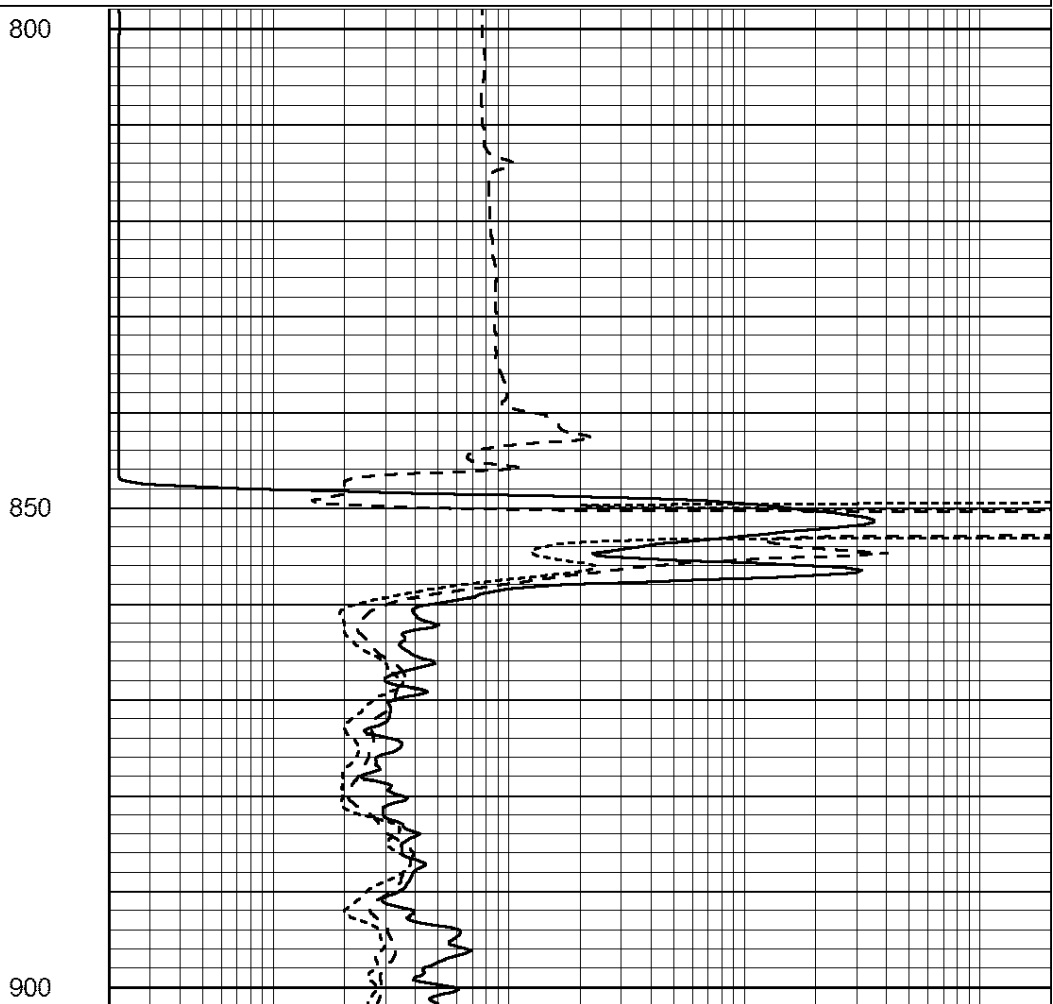
Database File: 30513ddn.db
Dataset Pathname: pass3.2
Presentation Format: _dil
Dataset Creation: Mon Aug 03 20:24:29 2015 by Calc Open-Cased 090629
Charted by: Depth in Feet scaled 1:240

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



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



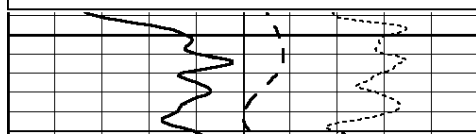
0.2	SHALLOW GUARD (Ohm-m)	2000
0.2	DEEP INDUCTION (Ohm-m)	2000
0.2	MEDIUM INDUCTION (Ohm-m)	2000



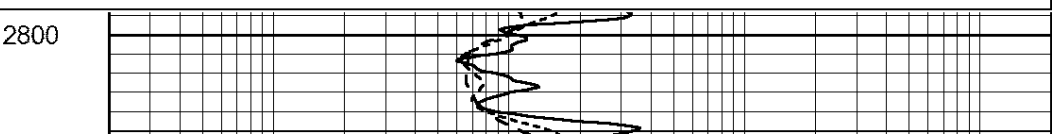
MAIN SECTION

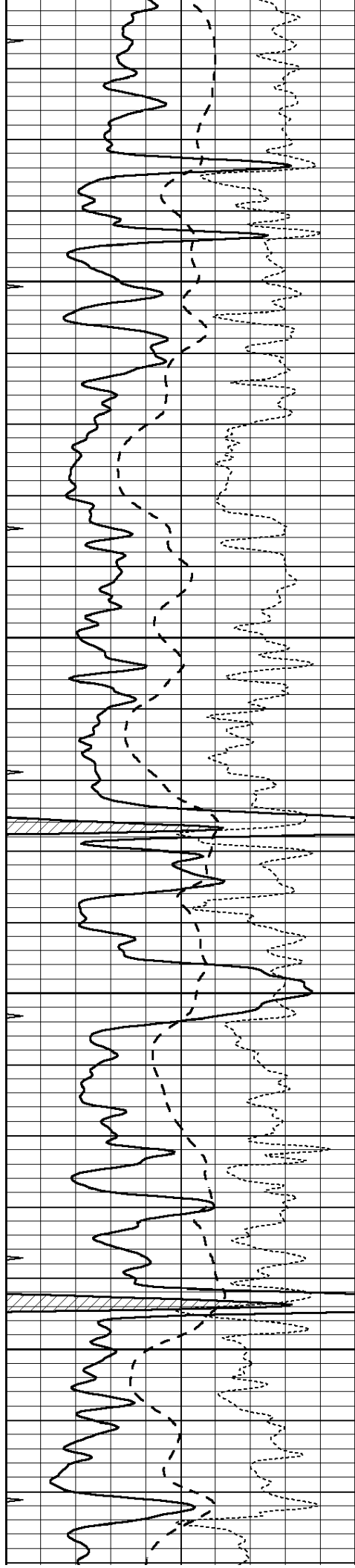
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 Dataset Pathname: pass3.1
 Presentation Format: _dil
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 Charted by: Depth in Feet scaled 1:240

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



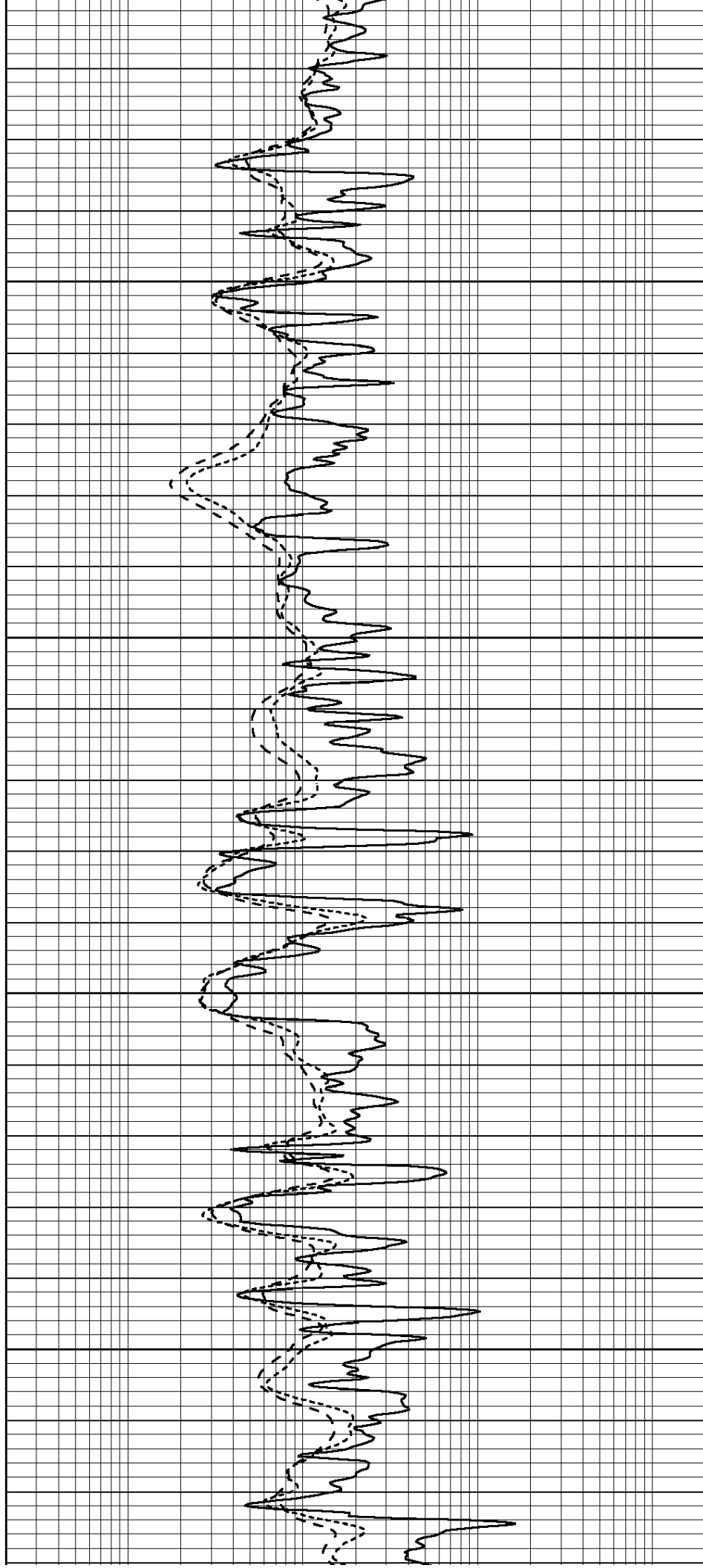


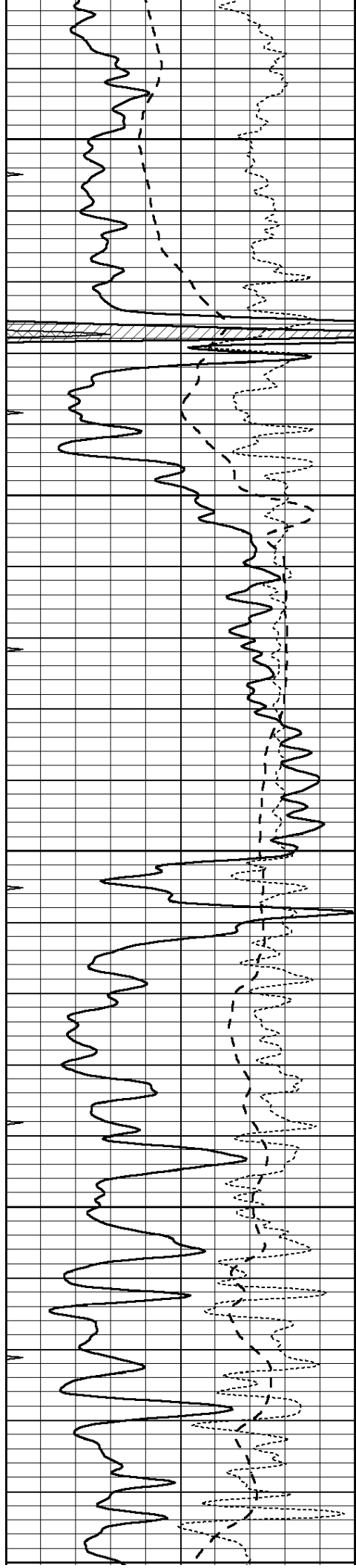
2850

2900

2950

3000





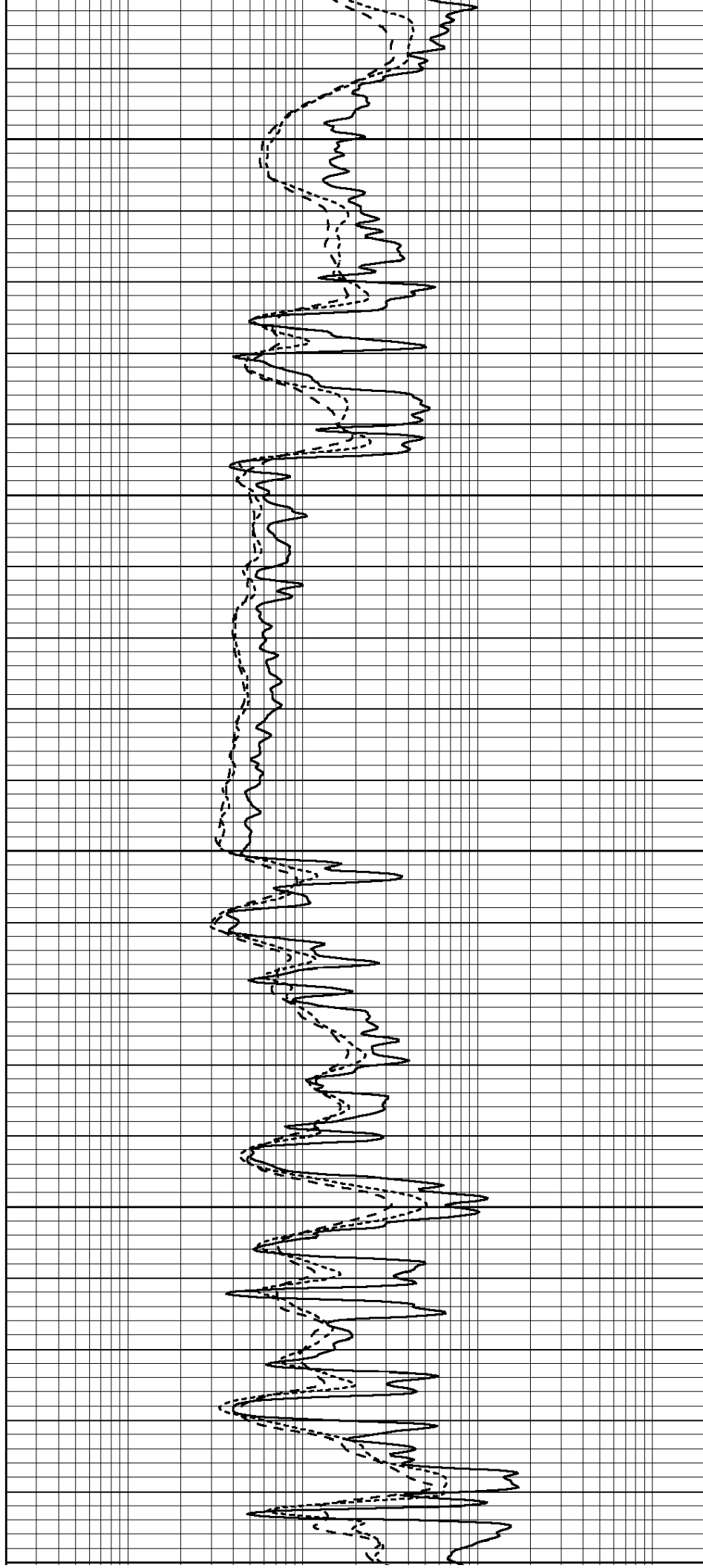
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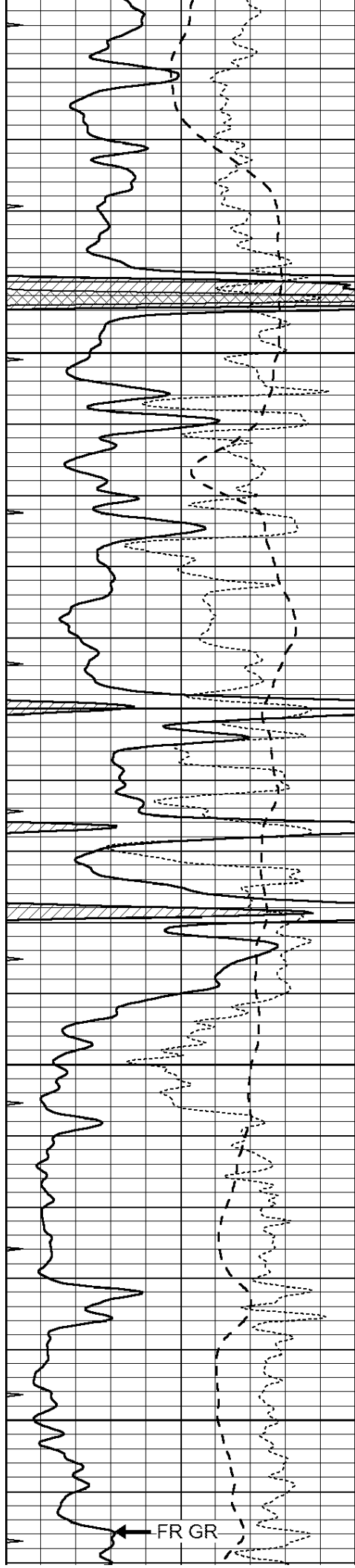
3100

3150

3200

3250





3200

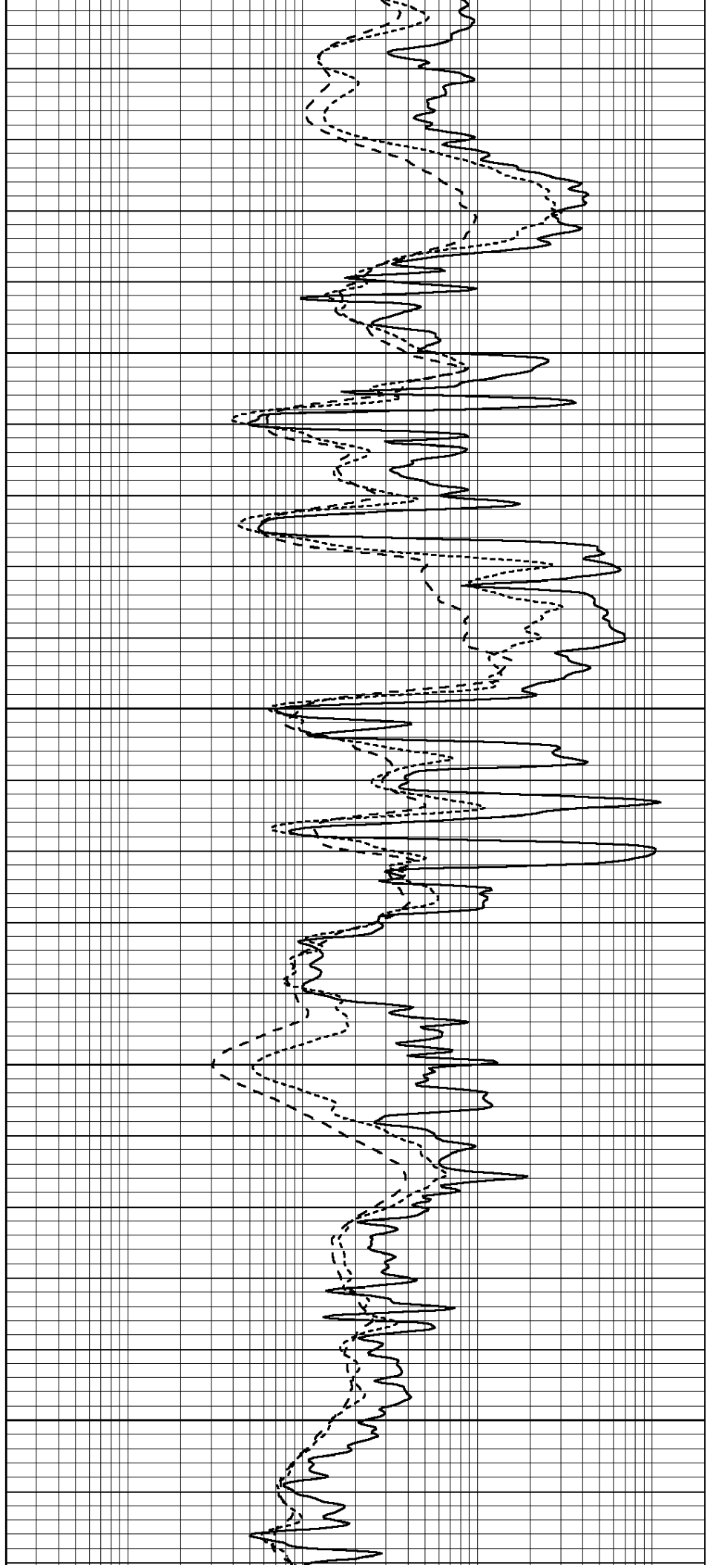
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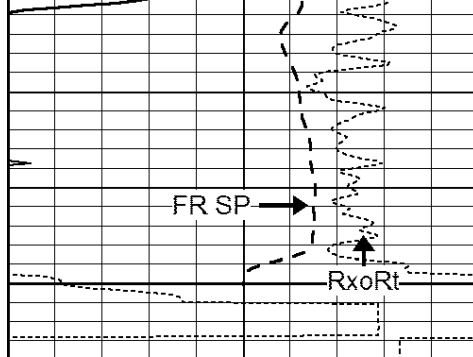
3350

3400

3450

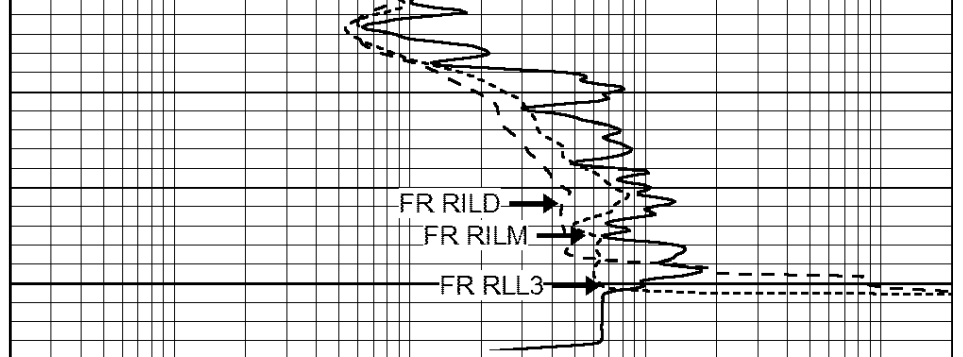
FR GR





3500
LTD 3502

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

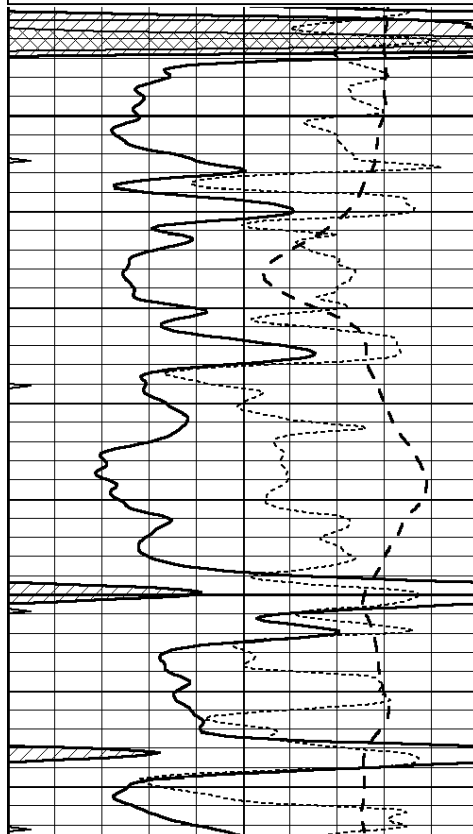


REPEAT SECTION

Database File: 30513ddn.db
 Dataset Pathname: pass2.1
 Presentation Format: _dil
 Dataset Creation: Mon Aug 03 19:38:15 2015 by Calc Open-Cased 090629
 Charted by: Depth in Feet scaled 1:240

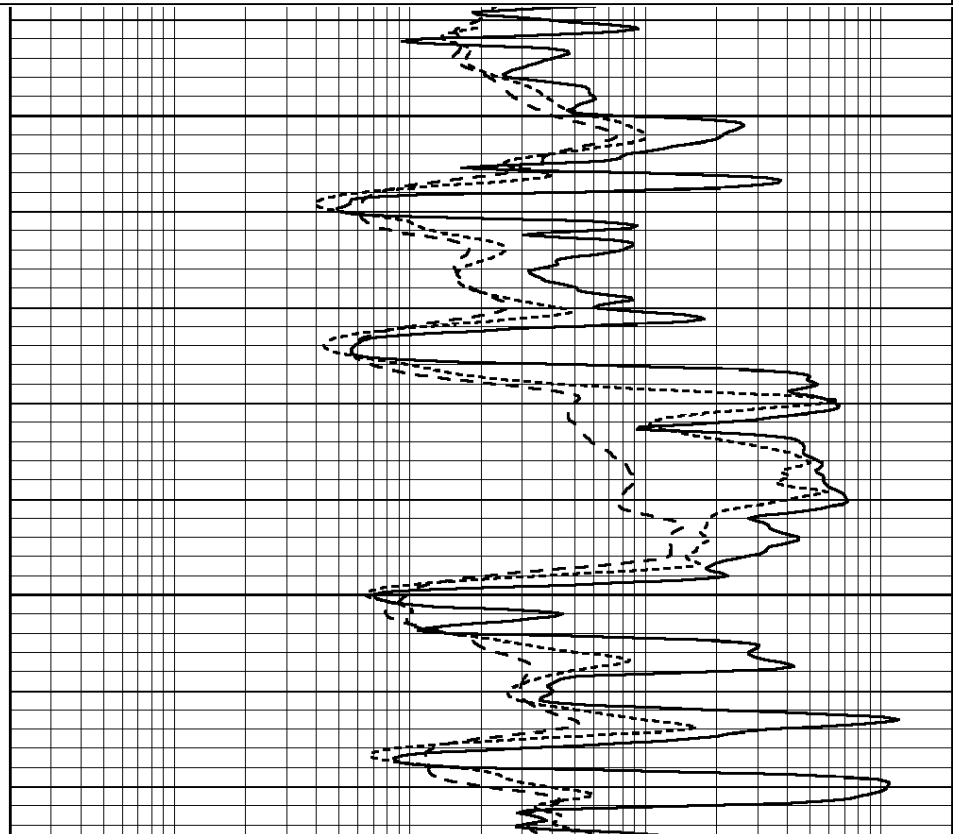
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-100	SP (mV)	100
-250	Rxo/Rt	50
0	MINMK	20

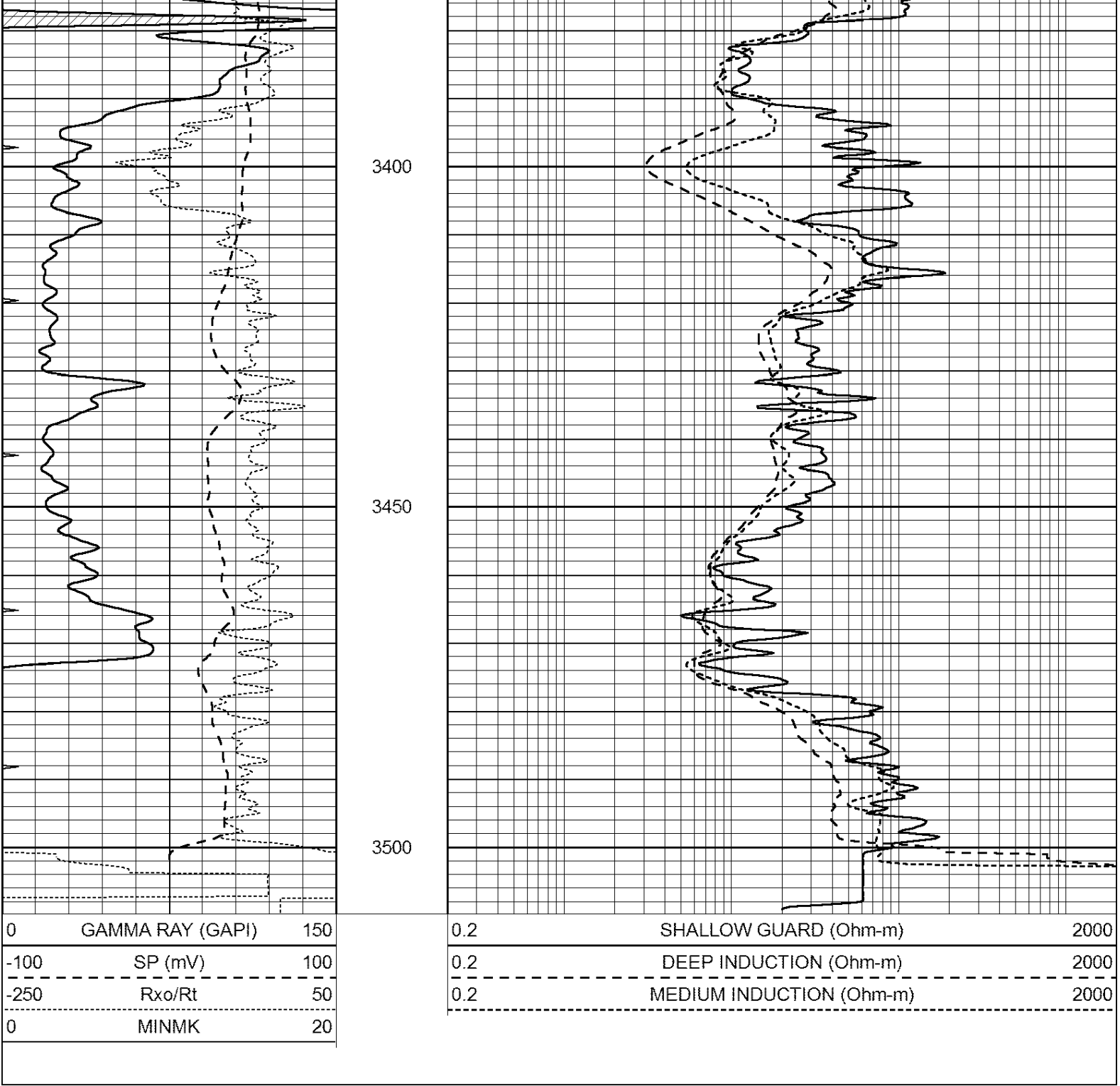
0.2	SHALLOW GUARD (Ohm-m)	2000
0.2	DEEP INDUCTION (Ohm-m)	2000
0.2	MEDIUM INDUCTION (Ohm-m)	2000



3300

3350





Calibration Report

Database File: 30513ddn.db
Dataset Pathname: pass2.1
Dataset Creation: Mon Aug 03 19:38:15 2015 by Calc Open-Cased 090629

Dual Induction Calibration Report

Serial-Model: PROBE8-DILG
Surface Cal Performed: Sun May 10 19:54:09 2015
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	

		Serial Number: Tool Model:		6I 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 May 10 18:59:16 2015				
	Calibrator Value:	150.0		GAPI		
	Background Reading:	0.0		cps		
	Calibrator Reading:	276.0		cps		
	Sensitivity:	0.8000		GAPI/cps		