

DUAL INDUCTION LOG

Company		PROLIFIC RESOURCES	
Well		FISCHER #1	
Field		EDDY	
County		PAWNEE	
State		KANSAS	
Location:		API # : 15-145-21837-00-00	
Permanent Datum		GROUND LEVEL	
Log Measured From		Elevation 2038	
Drilling Measured From		KELLY BUSHING 7' A.G.L.	
SEC 12 TWP 22S RGE 18W		Elevation	
1246' FSL & 977' FWL		K.B. 2045	
		D.F. 2043	
		G.L. 2038	
CDL/CNL/MEL			
Date	10/18/18		
Run Number	ONE		
Depth Driller	4300		
Depth Logger	4301		
Bottom Logged Interval	4300		
Top Log Interval	50		
Casing Driller	8 5/8" @ 1108		
Casing Logger	1108		
Bit Size	7 7/8"		
Type Fluid in Hole	CHEMICAL MUD		
Density / Viscosity	8.6/62		
pH / Fluid Loss	10.5/12.6		
Source of Sample	FLOWLINE		
Rm @ Meas. Temp	.9@72		
Rmt @ Meas. Temp	.66@72		
Rmc @ Meas. Temp	1.08@72		
Source of Rmt / Rmc	MEASURED		
Rm @ BHT	.54@119		
Time Circulation Stopped	2 HOURS		
Time Logger on Bottom	///		
Maximum Recorded Temperature	119F		
Equipment Number	4010		
Location	HAYS, KANSAS		
Recorded By	GUS PFANENSTIEL		
Witnessed By	JEFFREY A. BURK		

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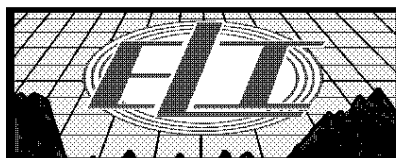
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, 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, KS. (785) 628-6395

DIRECTIONS

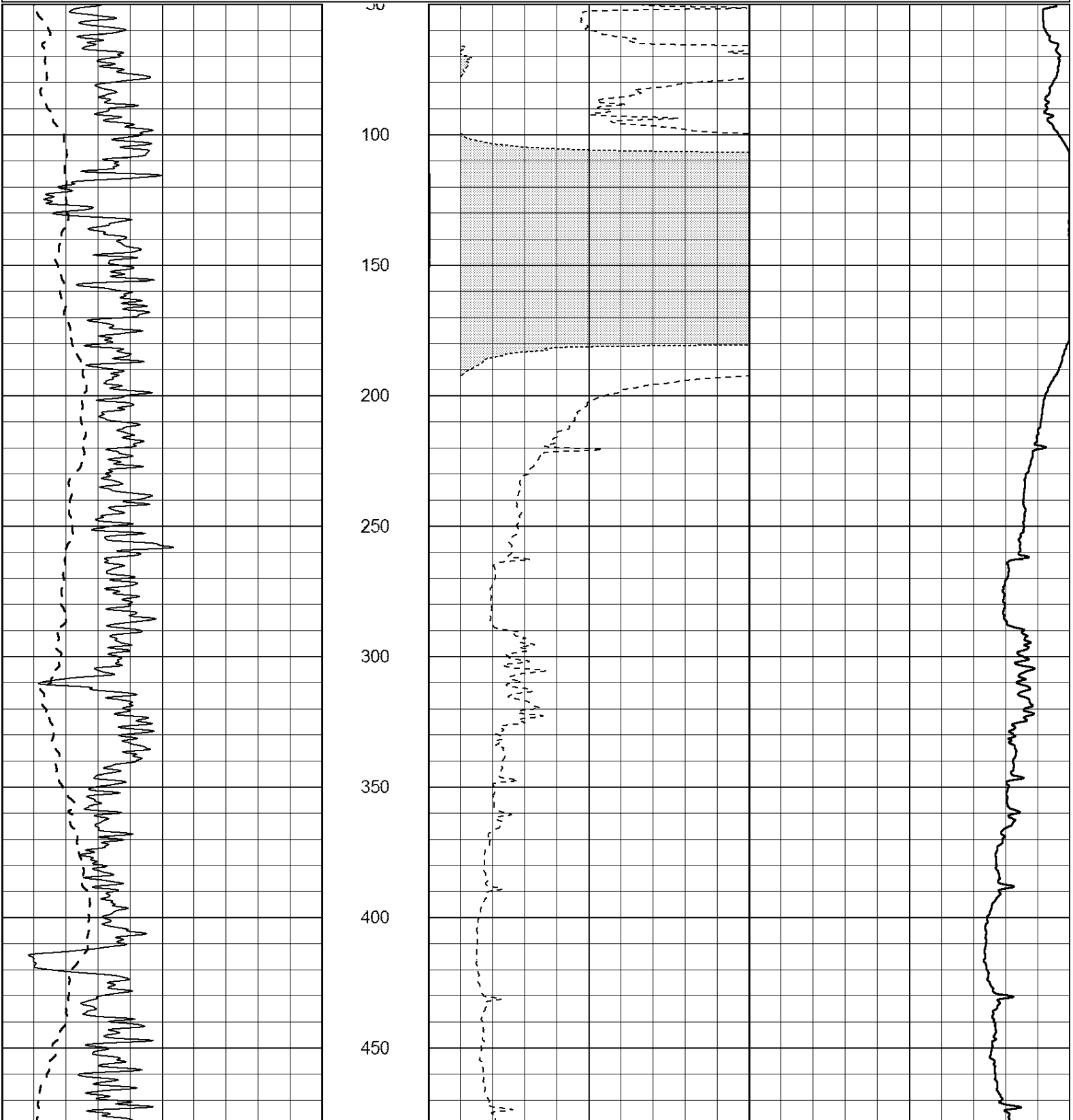
FROM FORT LARNED GO WEST 1/2 MILE TO 180 RD.
SOUTH TO L RD., 3 WEST TO 210 RD
SOUTH 1 MILE, 3/4 EAST, NORTH INTO.

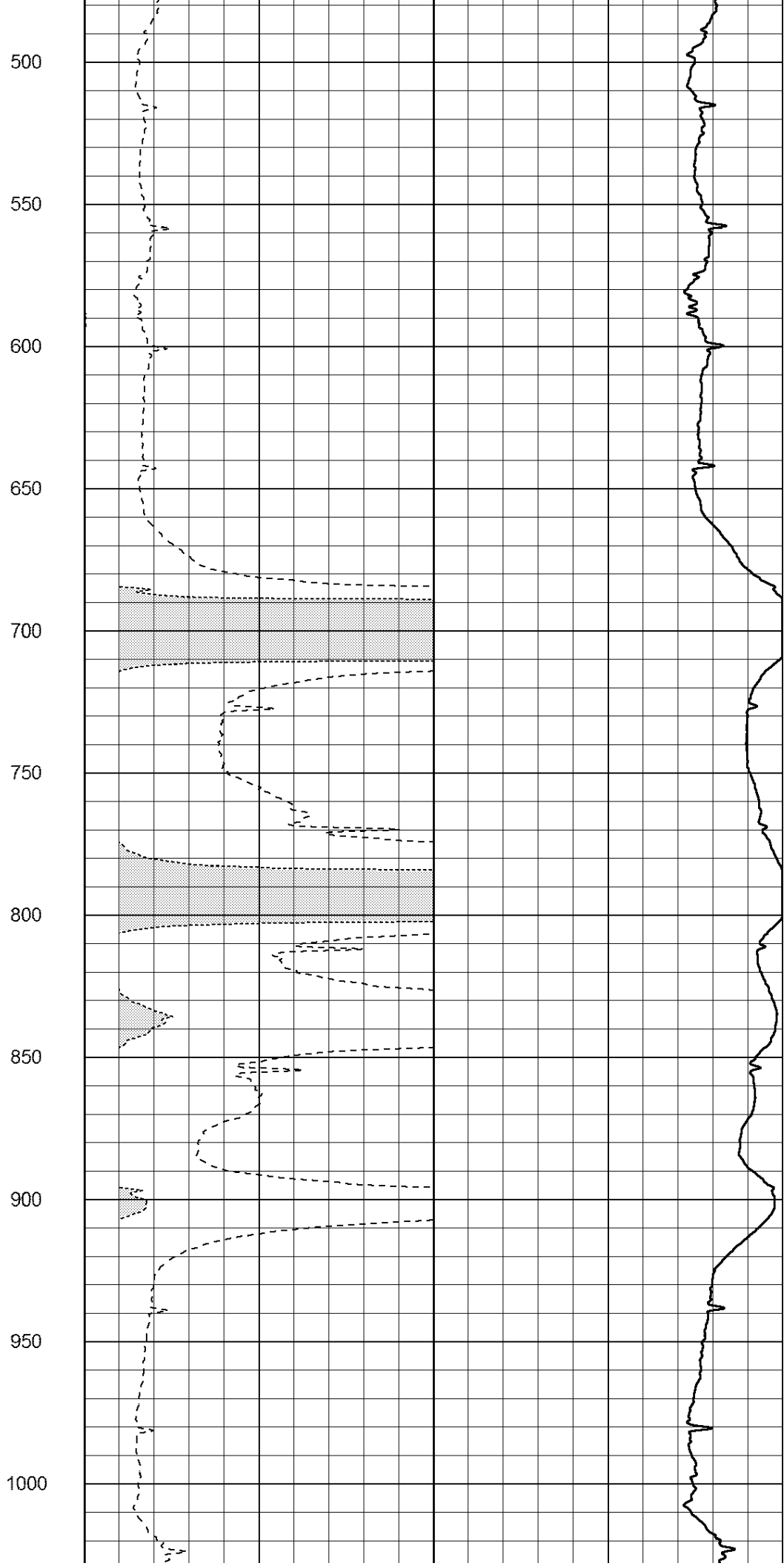
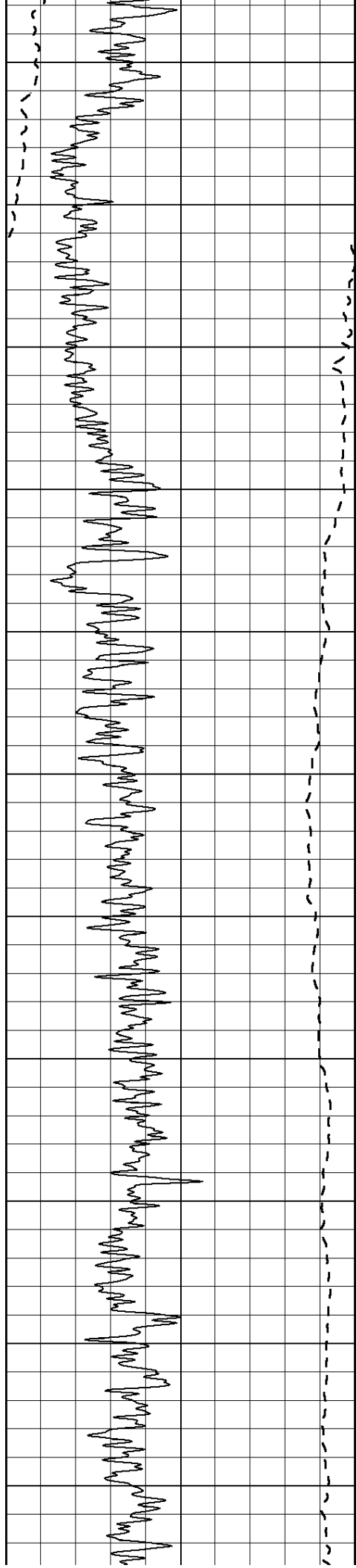


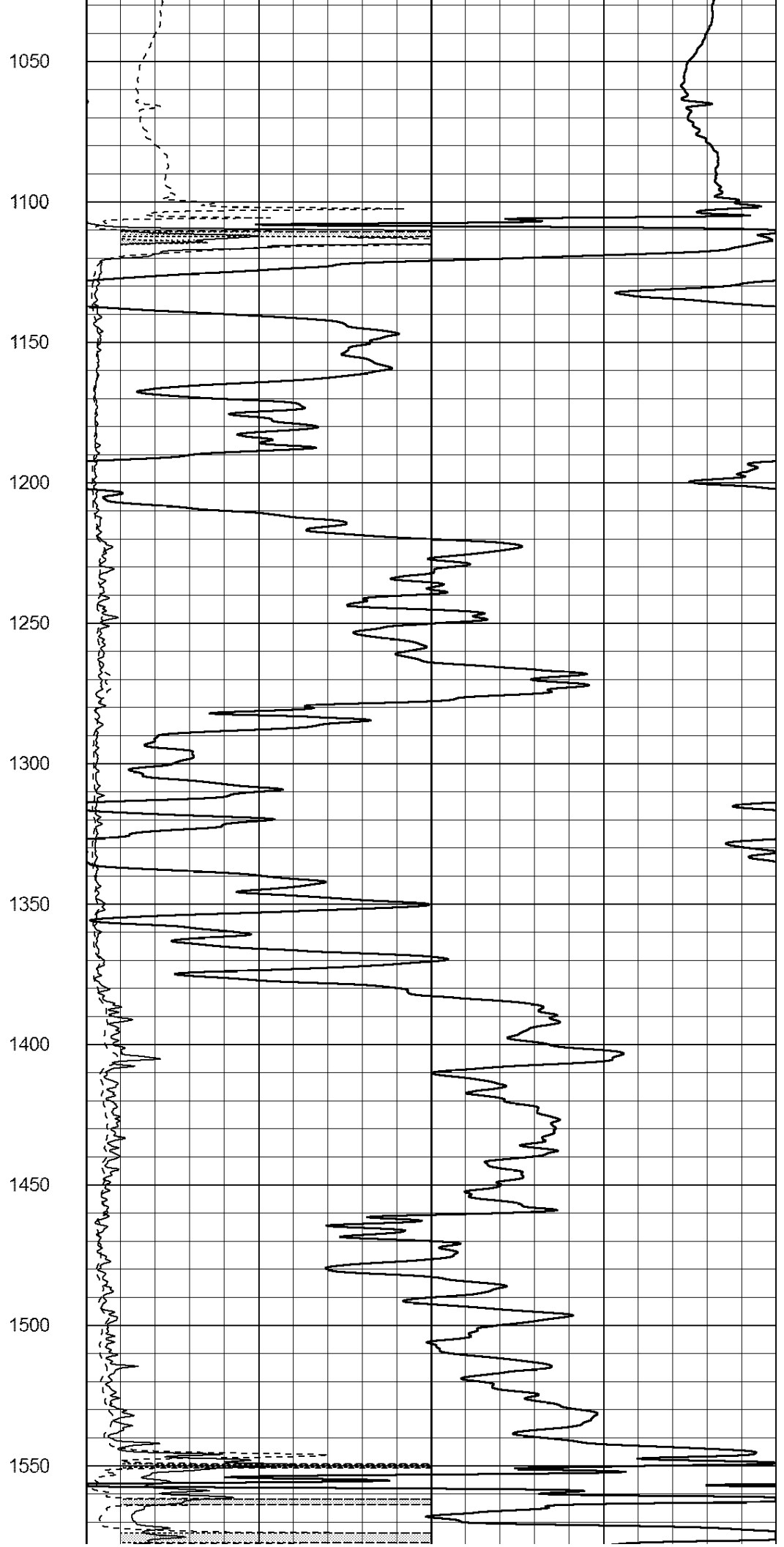
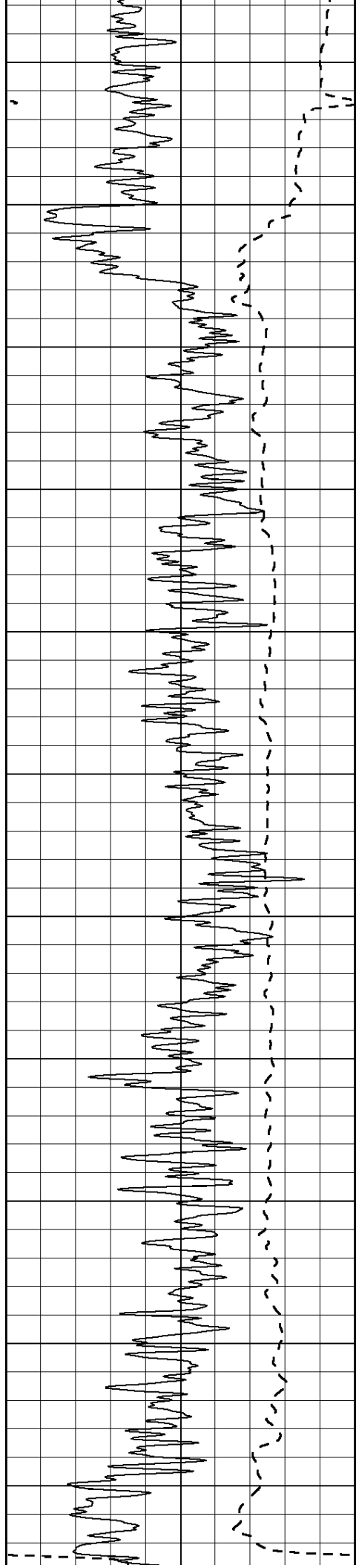
MAIN PASS

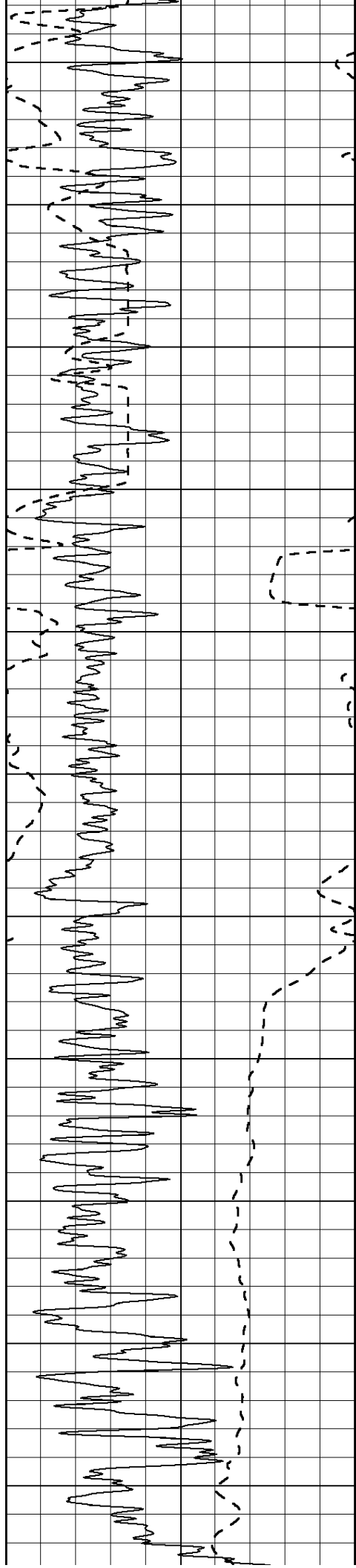
Database File: 2924ddn.db
Dataset Pathname: pass3DIL
Presentation Format: _dil2
Dataset Creation: Thu Oct 18 05:28:29 2018
Charted by: Depth in Feet scaled 1:600

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









1600

1650

1700

1750

1800

1850

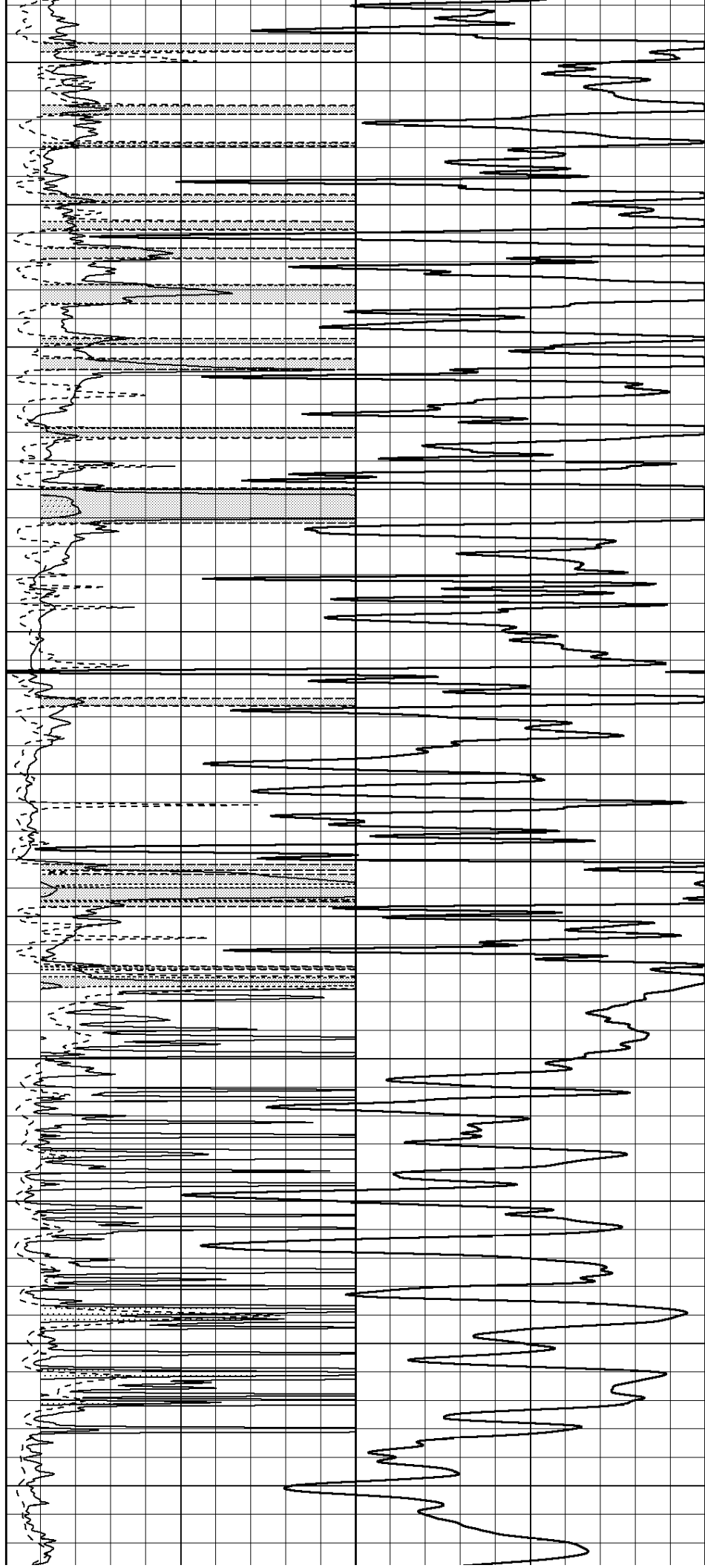
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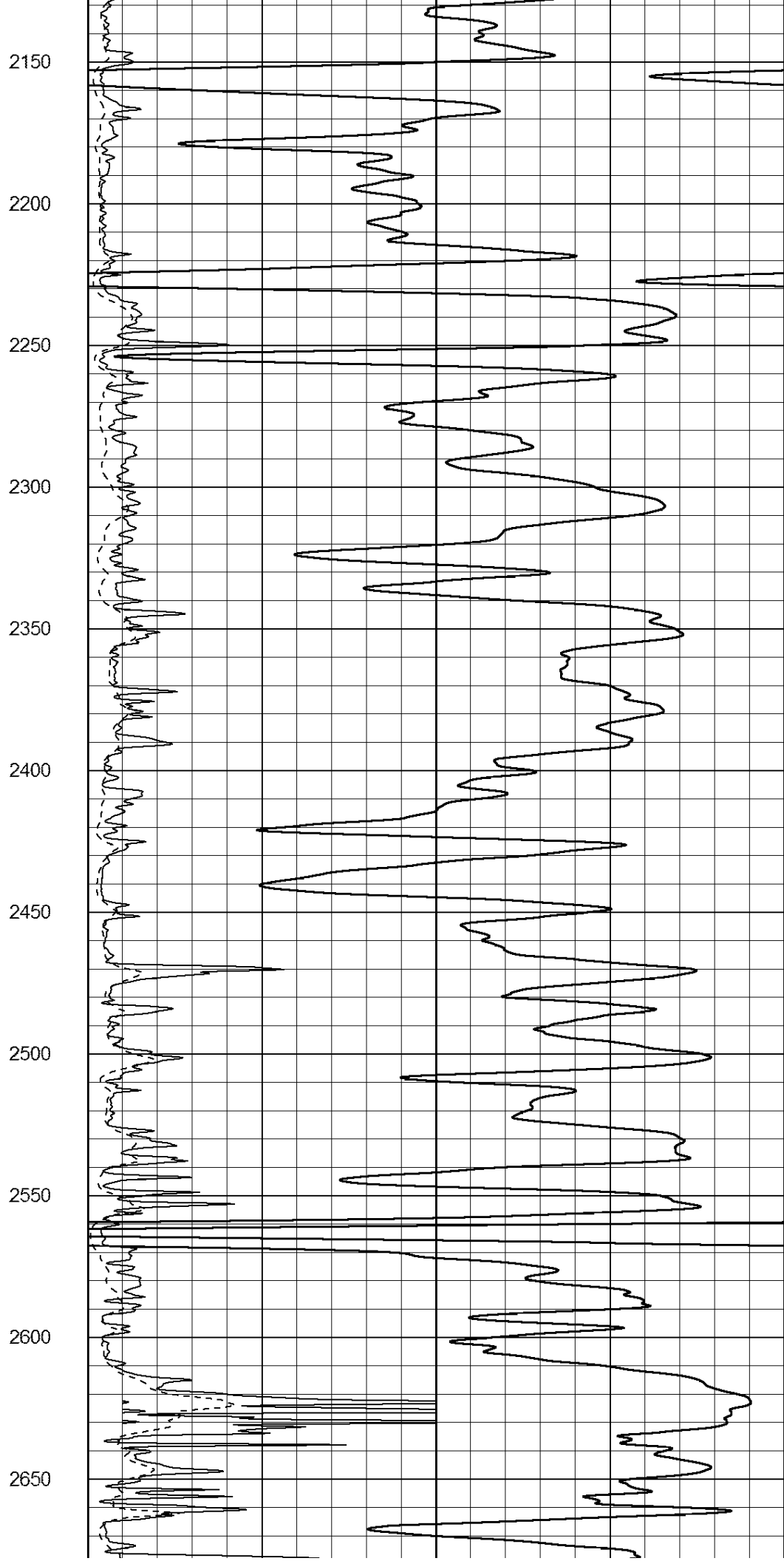
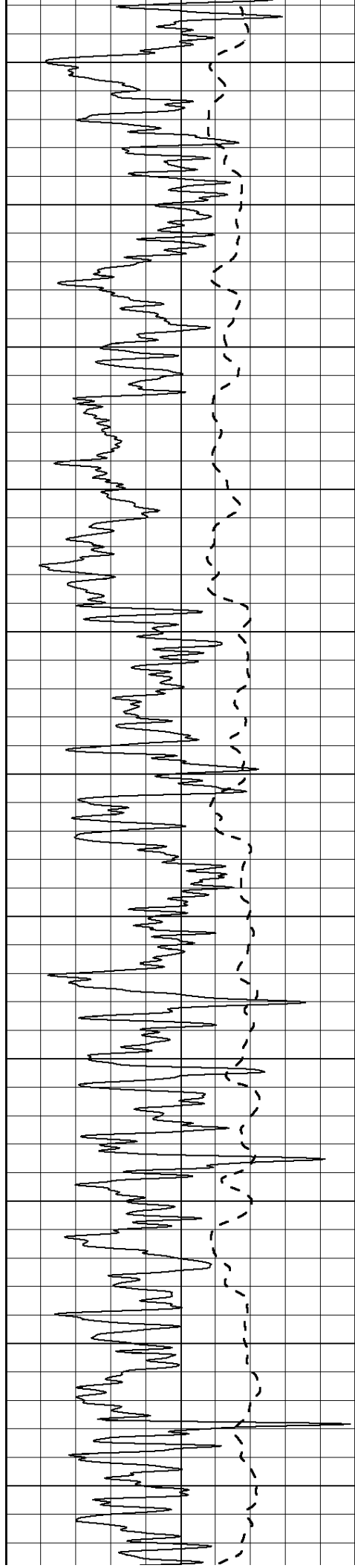
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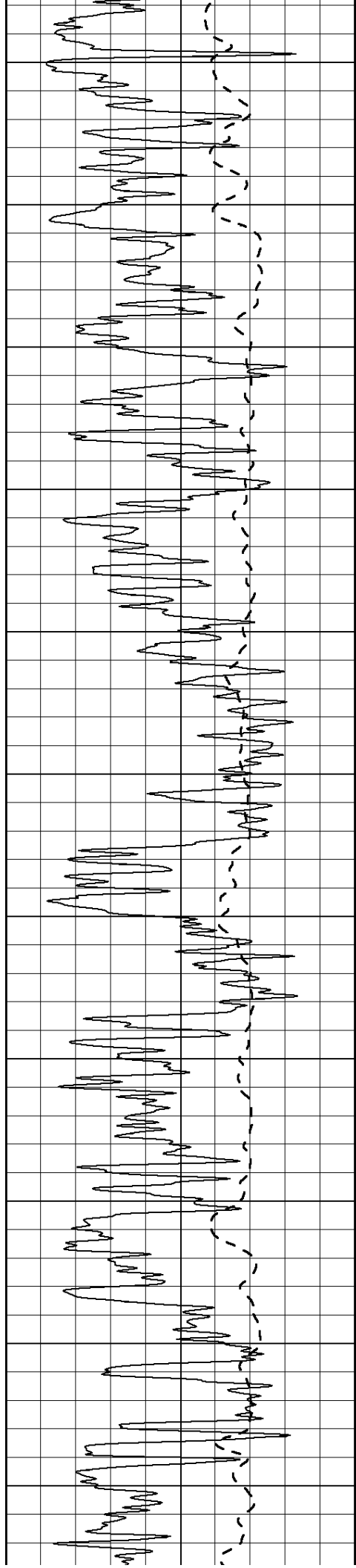
2000

2050

2100







2700

2750

2800

2850

2900

2950

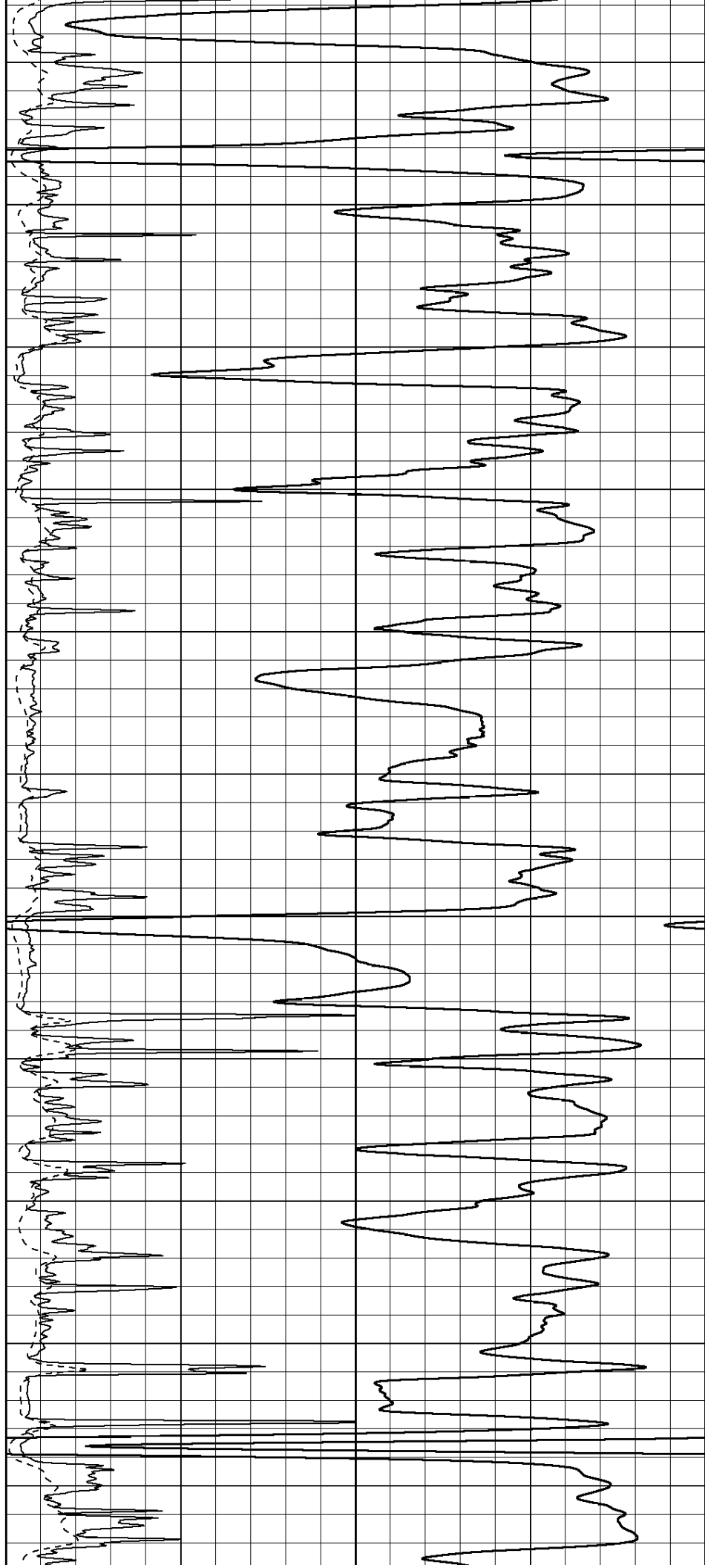
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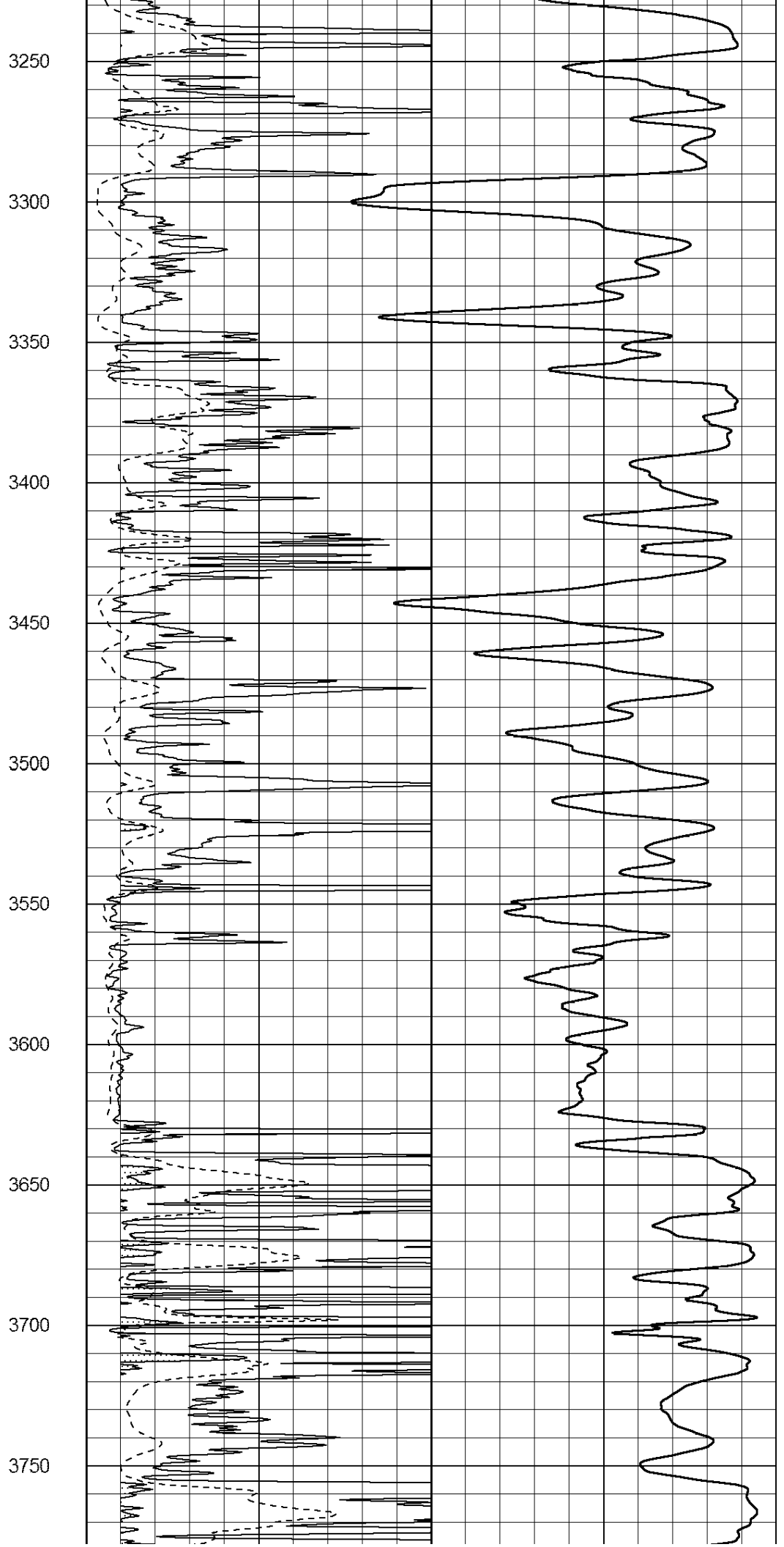
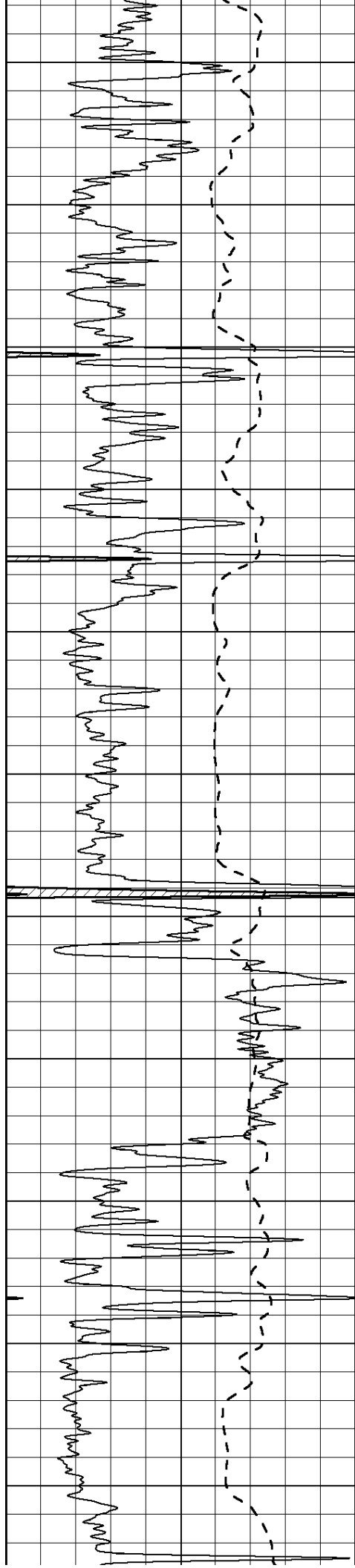
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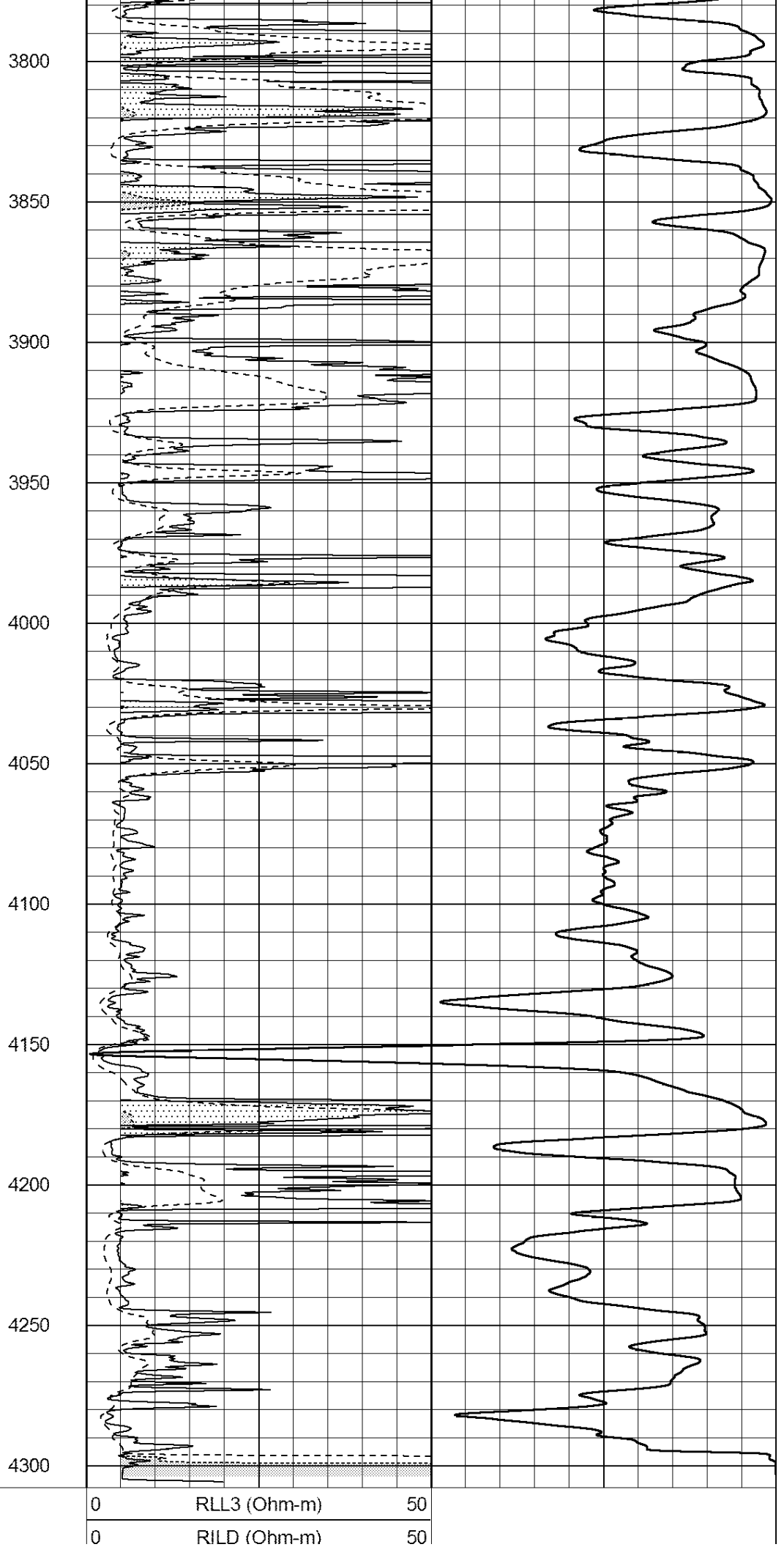
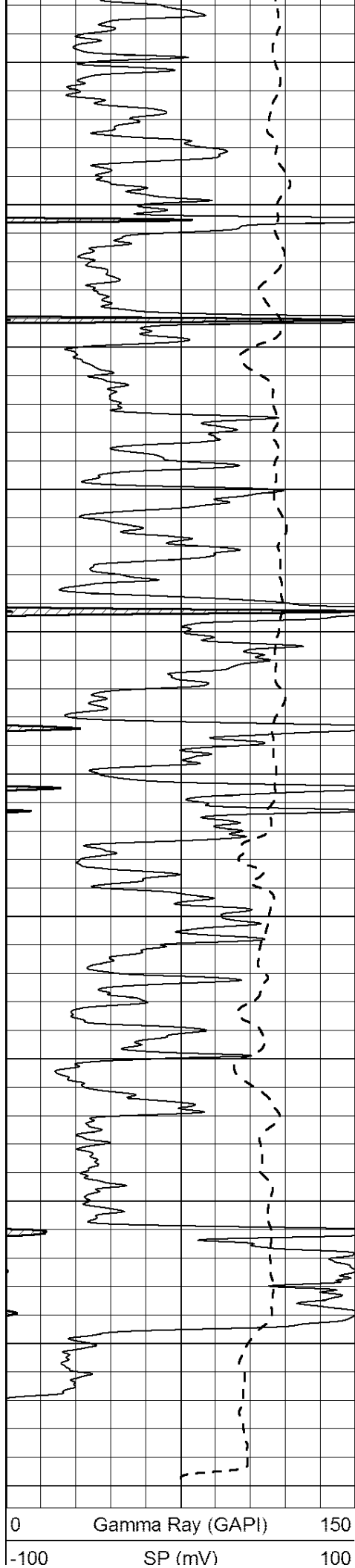
3100

3150

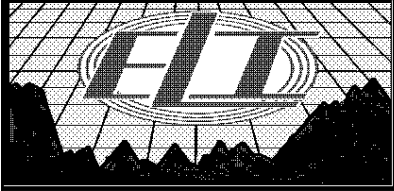
3200







1000	CILD (mmho/m)	0
50	RILD X10 (Ohm-m)	500
50	RLL3 X10 (Ohm-m)	500

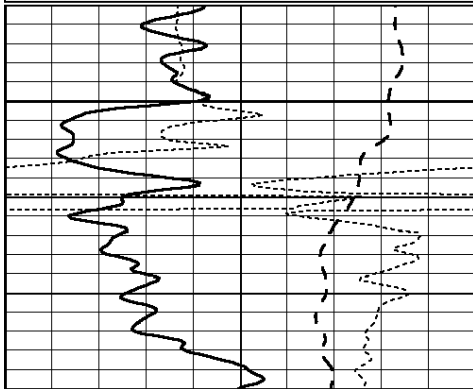


MAIN PASS

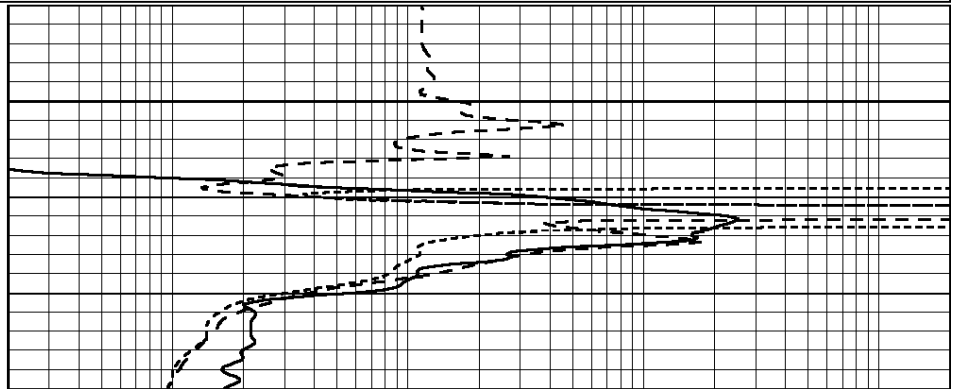
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Dataset Pathname: pass3DIL
Presentation Format: _dil
Dataset Creation: Thu Oct 18 05:28:29 2018
Charted by: Depth in Feet scaled 1:240

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

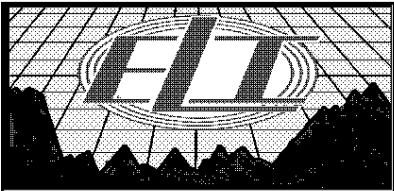


1100



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

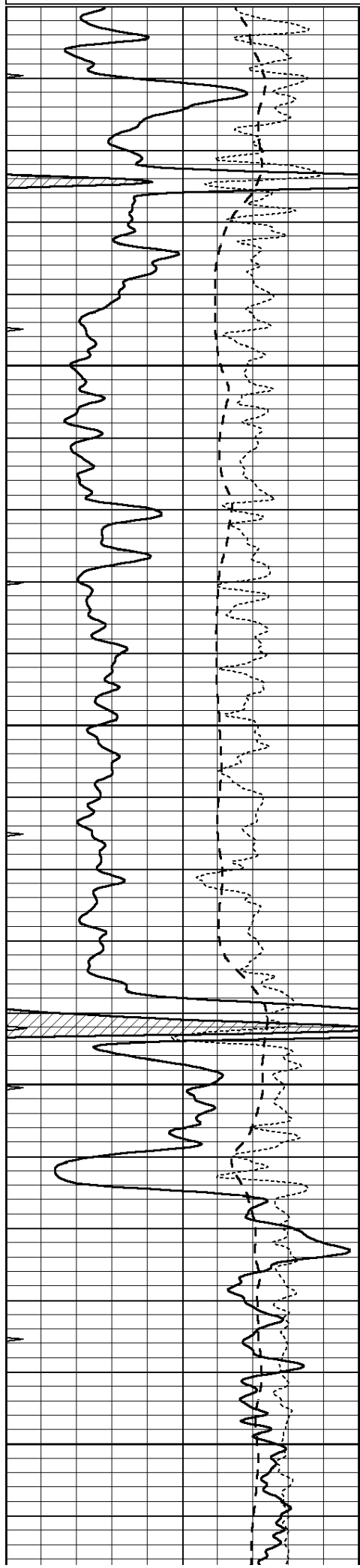


MAIN PASS

Database File: 2924ddn.db
Dataset Pathname: pass3DIL
Presentation Format: _dil
Dataset Creation: Thu Oct 18 05:28:29 2018
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



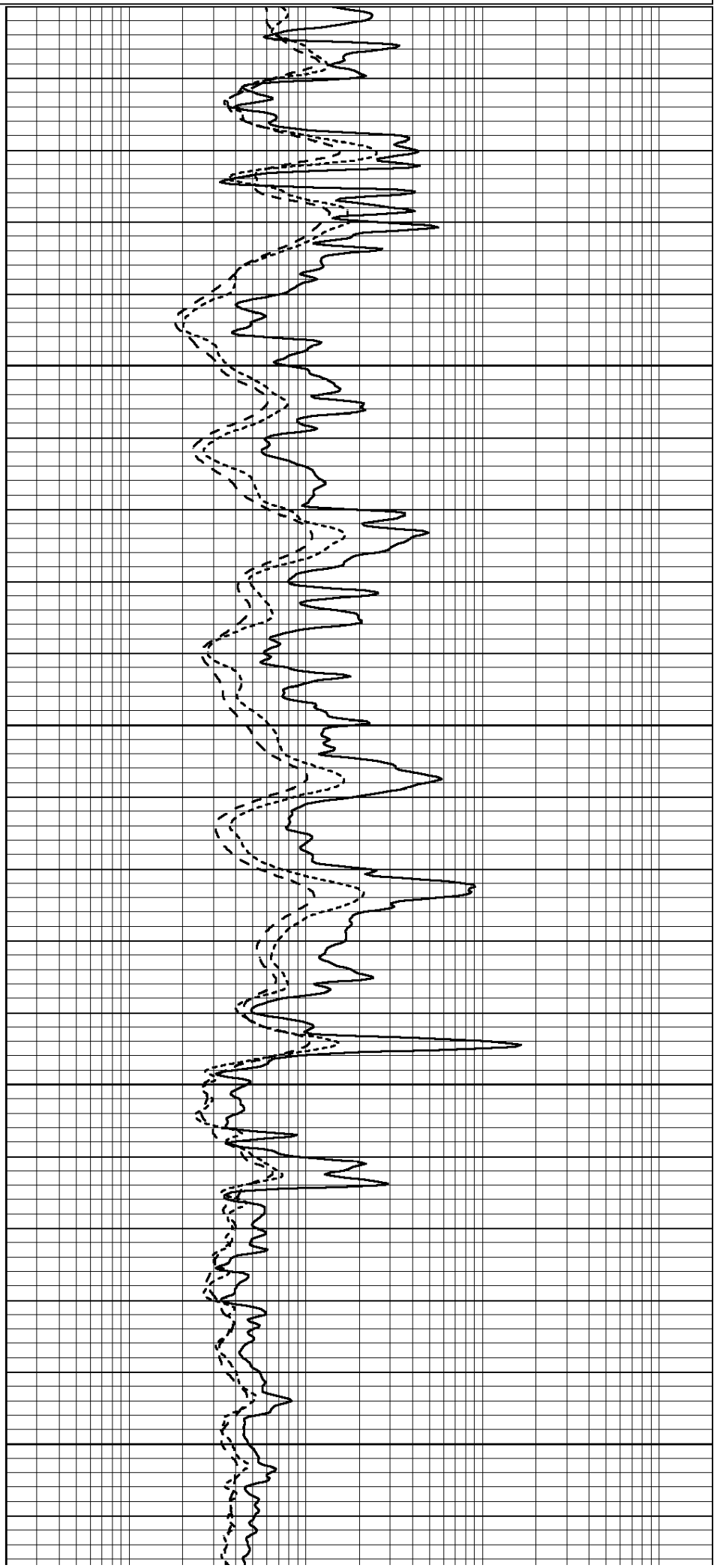
3400

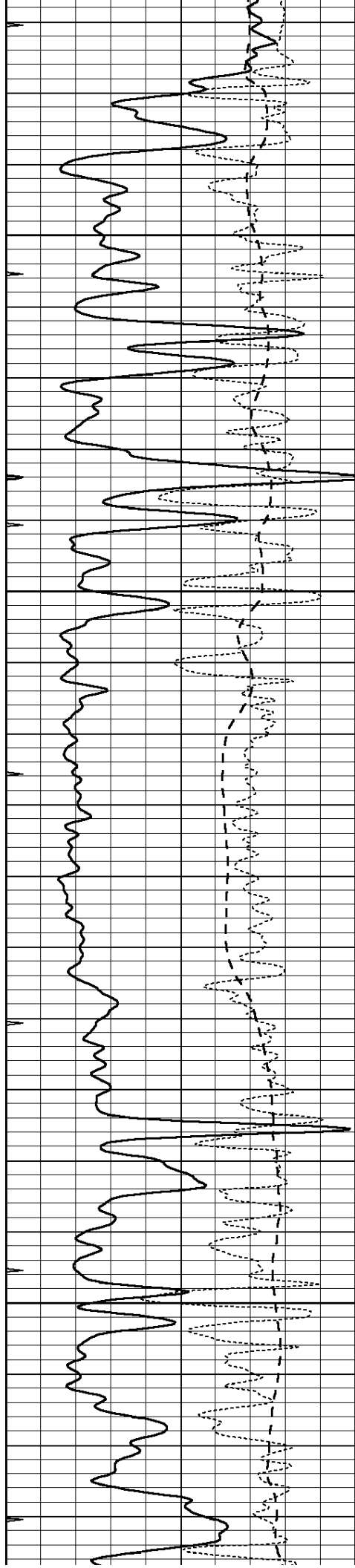
3450

3500

3550

3600



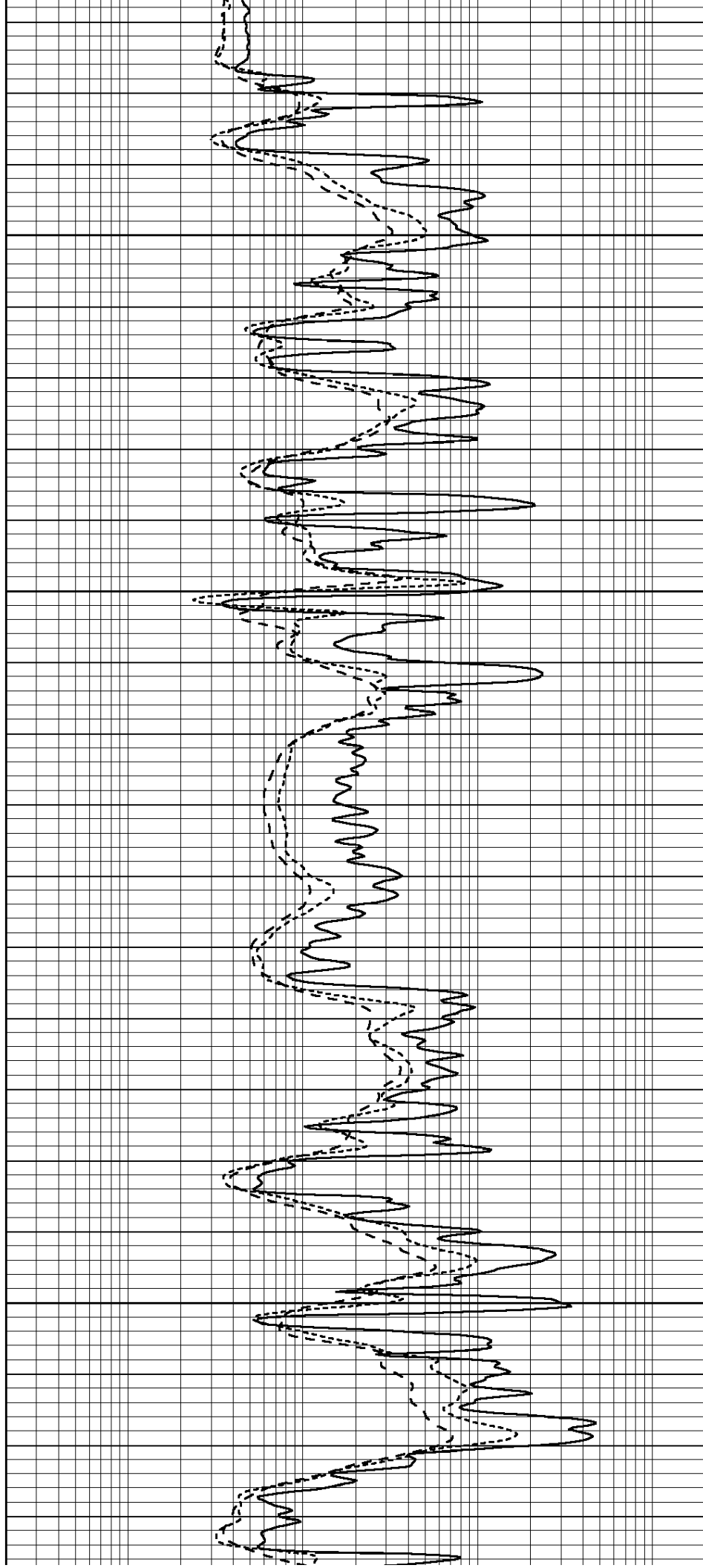


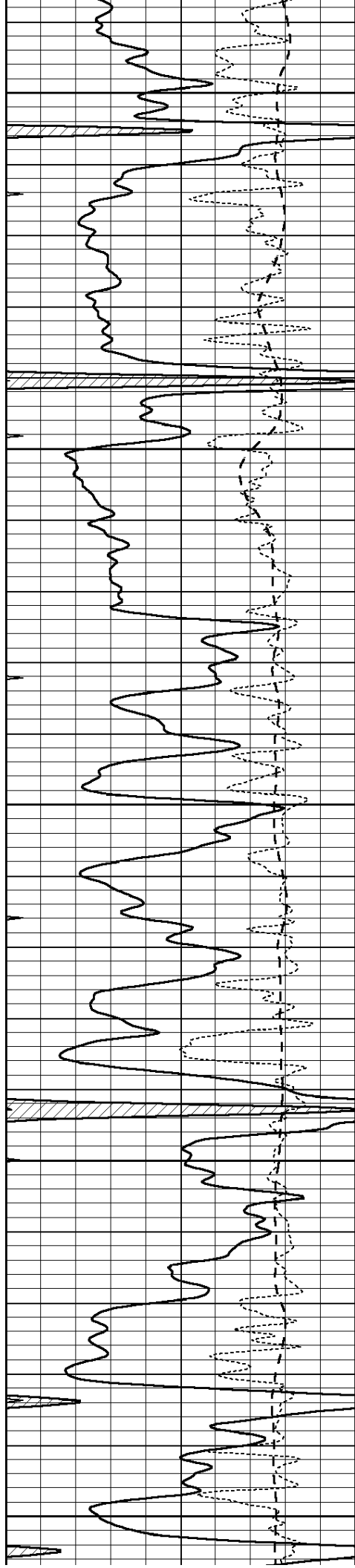
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3700

3750

3800





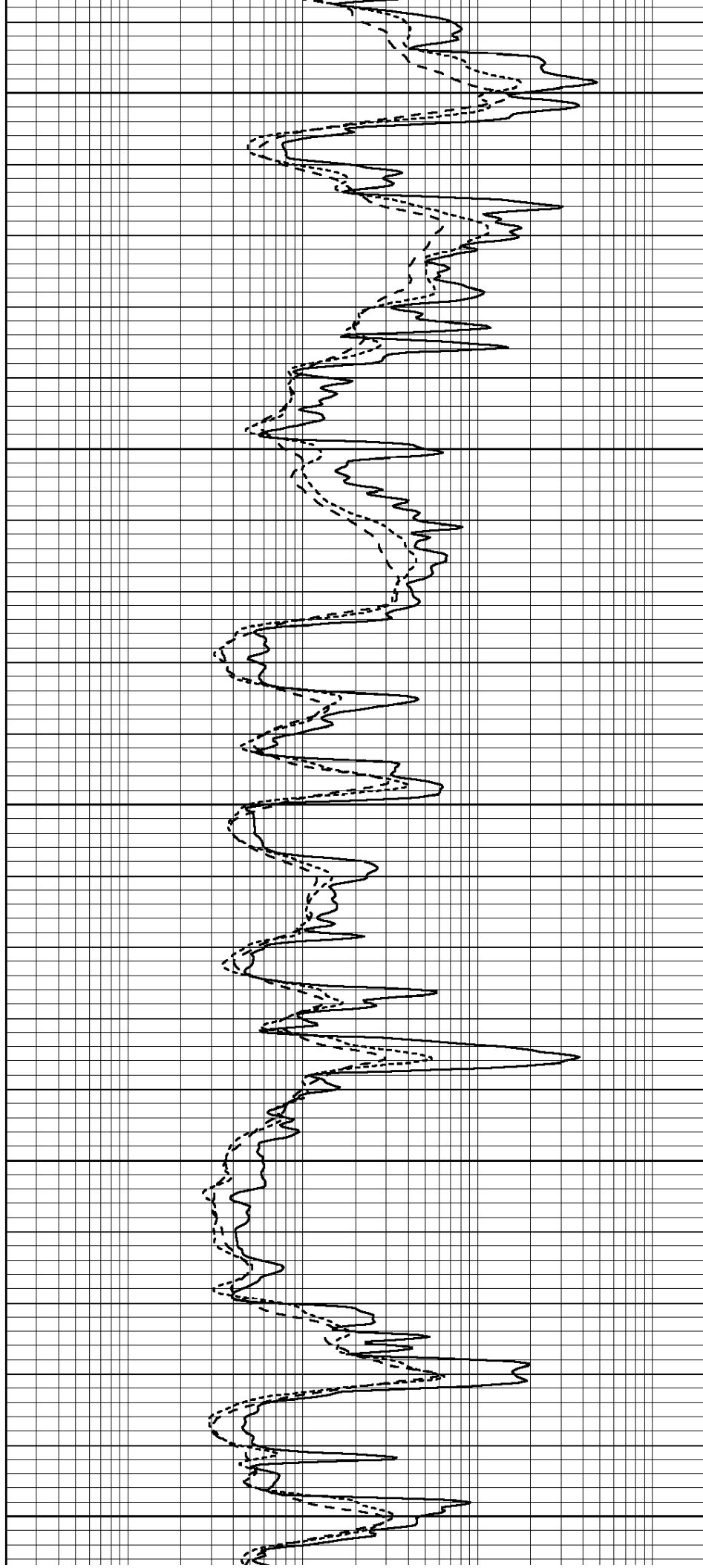
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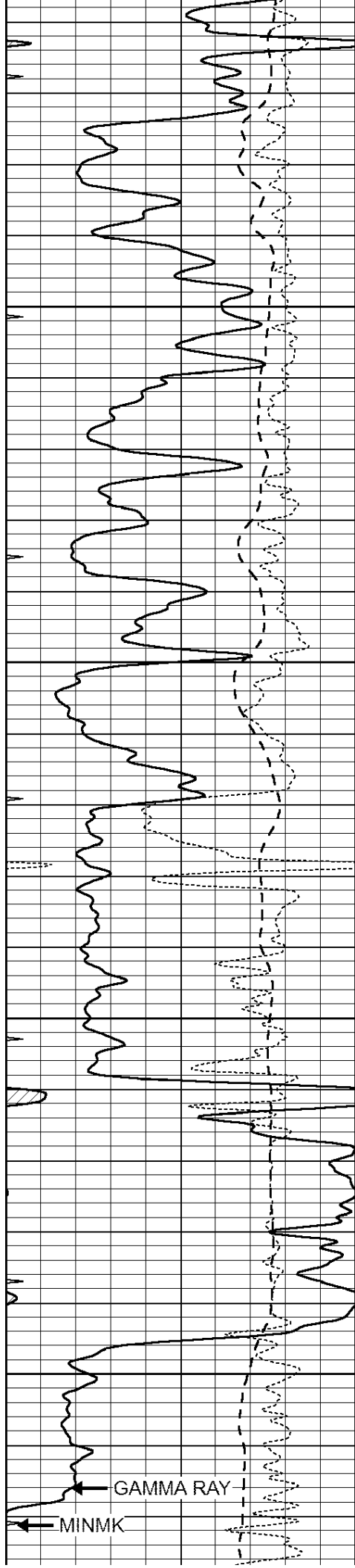
3900

3950

4000

4050





4100

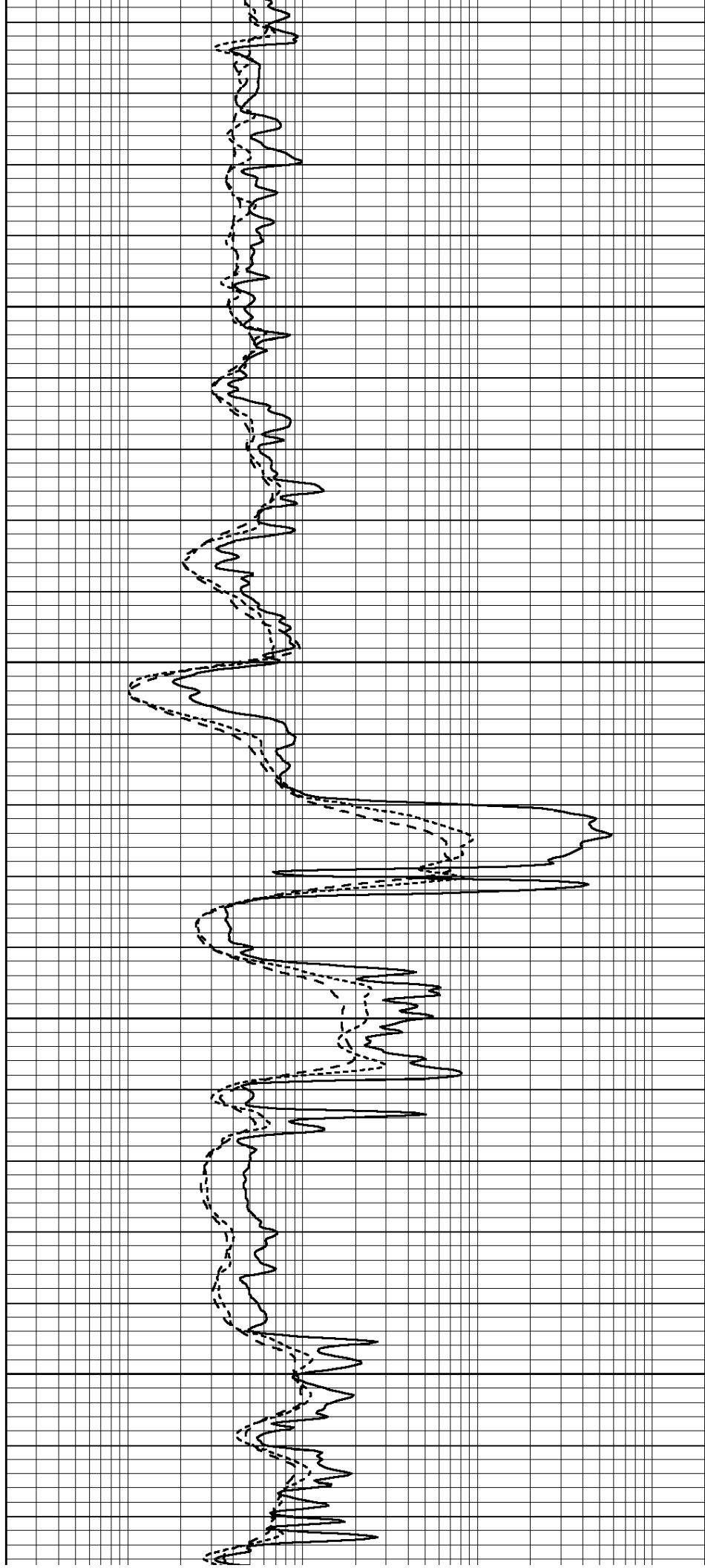
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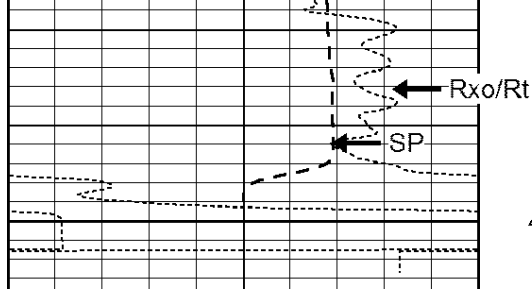
4200

4250

GAMMA RAY

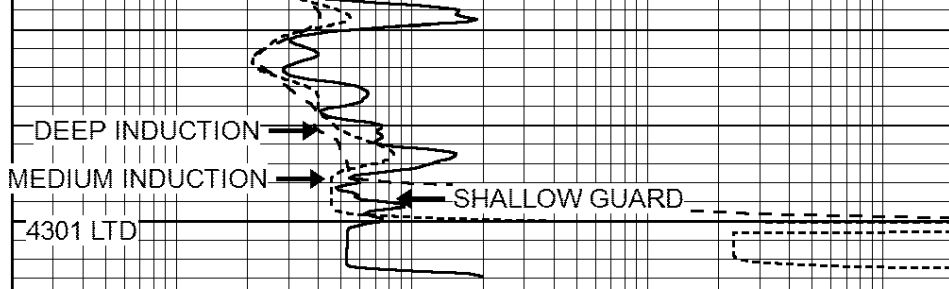
MINMK



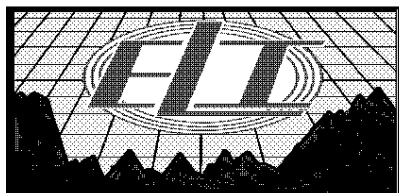


0	GAMMA RAY (GAPI)	150
-100	SP (mV)	100
-250	Rxo/Rt	50
0	MINMK	20

4300



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

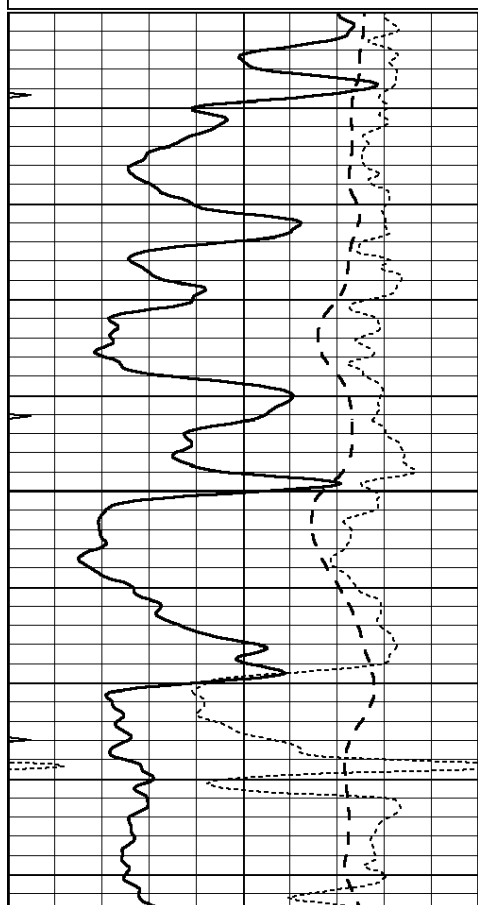


REPEAT SECTION

Database File: 2924ddn.db
 Dataset Pathname: pass2.1
 Presentation Format: _dil
 Dataset Creation: Thu Oct 18 04:49:50 2018
 Charted by: Depth in Feet scaled 1:240

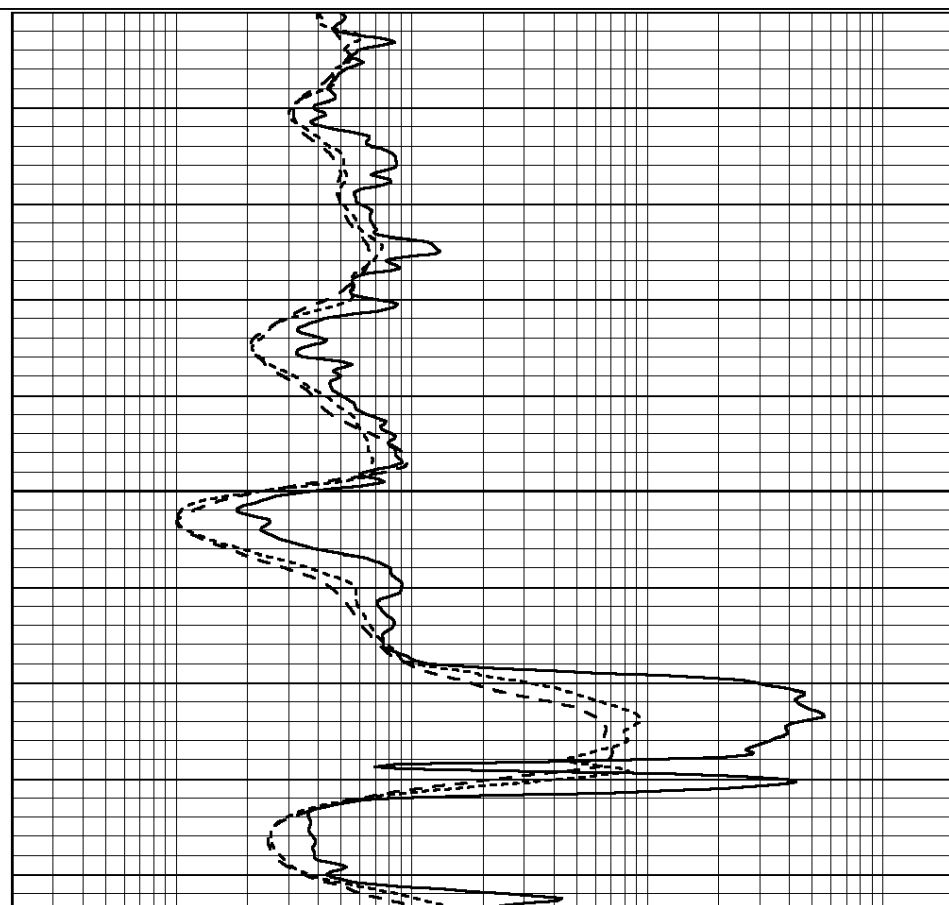
0	GAMMA RAY (GAPI)	150
-100	SP (mV)	100
-250	Rxo/Rt	50
0	MINMK	20

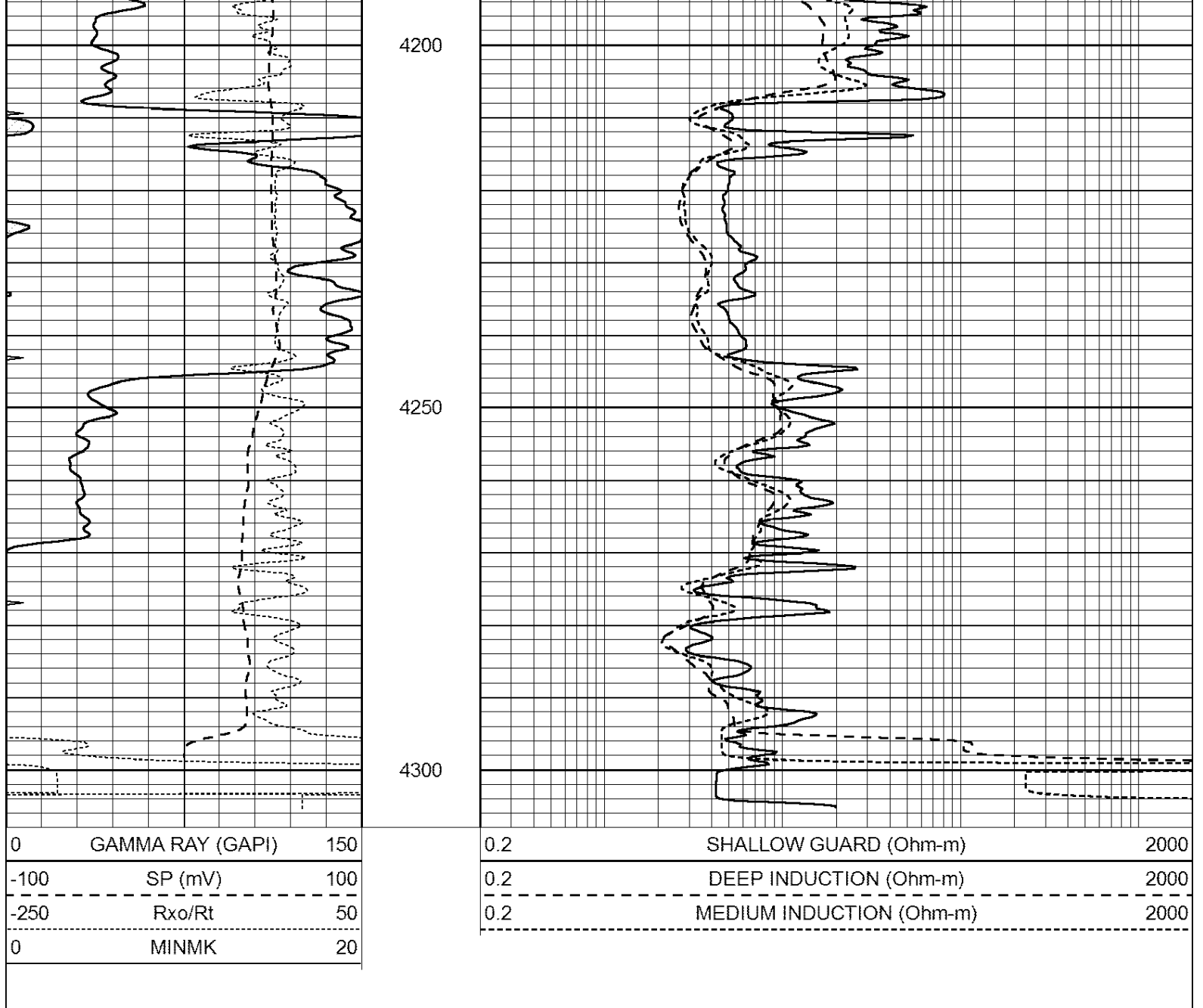
0.2	SHALLOW GUARD (Ohm-m)	2000
0.2	DEEP INDUCTION (Ohm-m)	2000
0.2	MEDIUM INDUCTION (Ohm-m)	2000



4100

4150





Calibration Report								
Database File:		2924ddn.db						
Dataset Pathname:		pass2.1						
Dataset Creation:		Thu Oct 18 04:49:50 2018						
Dual Induction Calibration Report								
Serial-Model:		PROBE8-DILG						
Surface Cal Performed:		Mon Sep 10 14:28:35 2018						
Downhole Cal Performed:		Mon Sep 10 14:28:38 2018						
After Survey Verification Performed:		Mon Sep 10 14:28:40 2018						
Surface Calibration								
		Readings			References		Results	
Loop:	Air	Loop		Air	Loop		m	b
Deep	0.015	0.648	V	0.000	400.000	mmho/m	620.000	0.000
Medium	0.029	0.796	V	0.000	464.000	mmho/m	590.000	-12.000
Internal:	Zero	Cal		Zero	Cal		m	b
Deep	0.017	0.657	V	0.000	400.000	mmho/m	625.153	-10.619
Medium	0.032	0.757	V	0.000	464.000	mmho/m	605.000	-12.000

Medium	0.016	0.757	V	0.000	464.000	mmho/m	625.992	-9.739
Downhole Calibration								
Readings			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								
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: 006 Model: PRB								
Master Calibration			Performed Thu Sep 27 12:07:11 2018					
	Background	Magnesium		Aluminum		Sandstone		
Window 1	1185.6	7077.4		2520.9		8182.4		cps
Window 2	1116.8	5910.1		2163.2		6739.4		cps
Window 3	880.1	3145.8		1325.0		3461.2		cps
Window 4	289.5	295.8		290.8		295.3		cps
Long Space	0.0	4793.3		1046.5		5622.7		cps
Short Space	2.9	1608.0		1038.9		1622.7		cps
Rho		1.7100		2.5960		1.3800		g/cc
Pe		0.0000		2.5700		1.5500		
Rib Angle	: 44.0	Rib Slope	: 0.965	Density/Spine Ratio				: 0.560
Spine Angle	: 74.0	Spine Slope	: 3.484	Spine Intercept				: -17.2
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
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:		6I		
Tool Model:		G		
CALIBRATION				
Detector		Readings		Target
				Normalization
Short Space		1.00	cps	1.00 cps
Long Space		1.00	cps	1.00 cps
		1.0000		
		1.0000		
PRE-SURVEY VERIFICATION				
Detector		Readings		Measured
				Target
1)	Short Space		cps	
	Long Space		cps	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
2)	Short Space		cps	
	Long Space		cps	pu
3)	Short Space		cps	
	Long Space		cps	pu
Gamma Ray Calibration Report				
Serial Number:		GR6		
Tool Model:		OPEN		
Performed:		Mon Sep 10 14:29:23 2018		
Calibrator Value:		150.0	GAPI	
Background Reading:		0.0	cps	
Calibrator Reading:		276.0	cps	
Sensitivity:		0.5500	GAPI/cps	