



DUAL INDUCTION LOG

Company JASPAR COMPANY		Company JASPAR COMPANY	
Well	LIZA #2	Well	LIZA #2
Field	UNNAMED	Field	UNNAMED
County	ROOKS	County	ROOKS
State	KANSAS	State	KANSAS
Location:		API # : 15-163-24469-0000	
Permanent Datum		2085' FNL & 1500' FEL	
Log Measured From		NE - SE - SW - NE	
Drilling Measured From		SEC 29 TWP 9S RGE 19W	
GROUND LEVEL Elevation		2166.5	
KELLY BUSHING 7' A.G.L		Other Services	
KELLY BUSHING		CDL/CNL	
Elevation		MEL	
K.B. 2173.5			
D.F. 2171.5			
G.L. 2166.5			
Date	11/10/22		
Run Number	ONE		
Depth Driller	3730		
Depth Logger	3732		
Bottom Logged Interval	3730		
Top Log Interval	00		
Casing Driller	8 5/8" @ 263		
Casing Logger	263		
Bit Size	7 7/8		
Type Fluid in Hole	CHEMICAL MUD	CHLORIDES 4.000 PPM	
Density / Viscosity	9/56		
pH / Fluid Loss	9/8.4		
Source of Sample	FLOWLINE		
Rm @ Meas. Temp	1.30 @ 68F		
Rmf @ Meas. Temp	.975 @ 68F		
Rmc @ Meas. Temp	1.56 @ 68F		
Source of Rmf / Rmc	MEASUREMENT		
Rm @ BHT	.775 @ 114F		
Time Circulation Stopped	2 HOURS		
Time Logger on Bottom	3.00 A.M.		
Maximum Recorded Temperature	114F		
Equipment Number	3802		
Location	HAYS, KANSAS		
Recorded By	COLE ROBBEN		
Witnessed By	JEFF LAWLER		

<<< Fold Here >>>

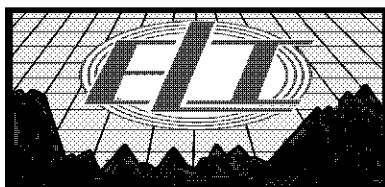
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs,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

DIRECTIONS:

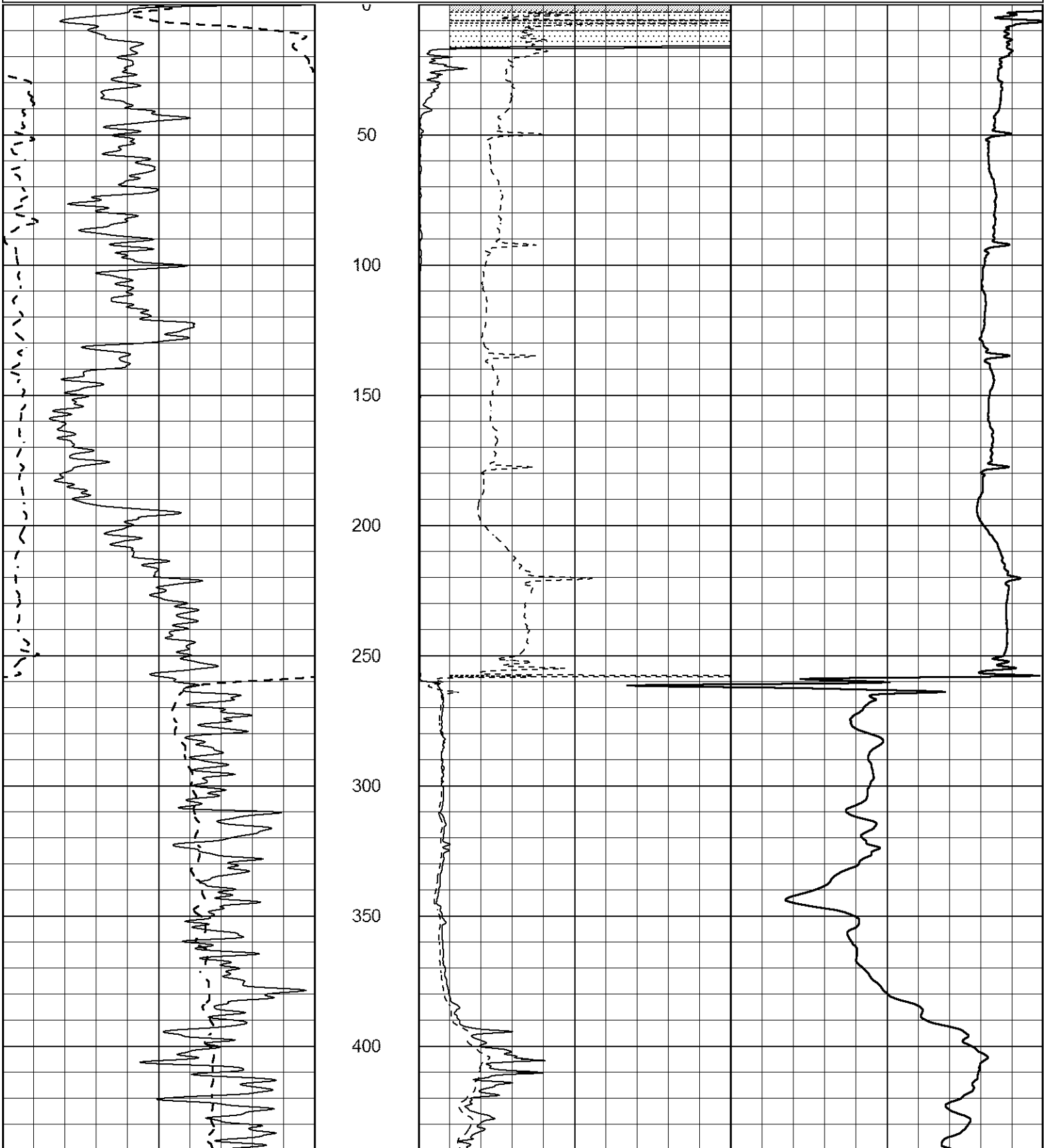
FROM ZURICH, KANSAS ONE MILE WEST TO NINE ROAD, 3/4 MILE NORTH, WEST INTO

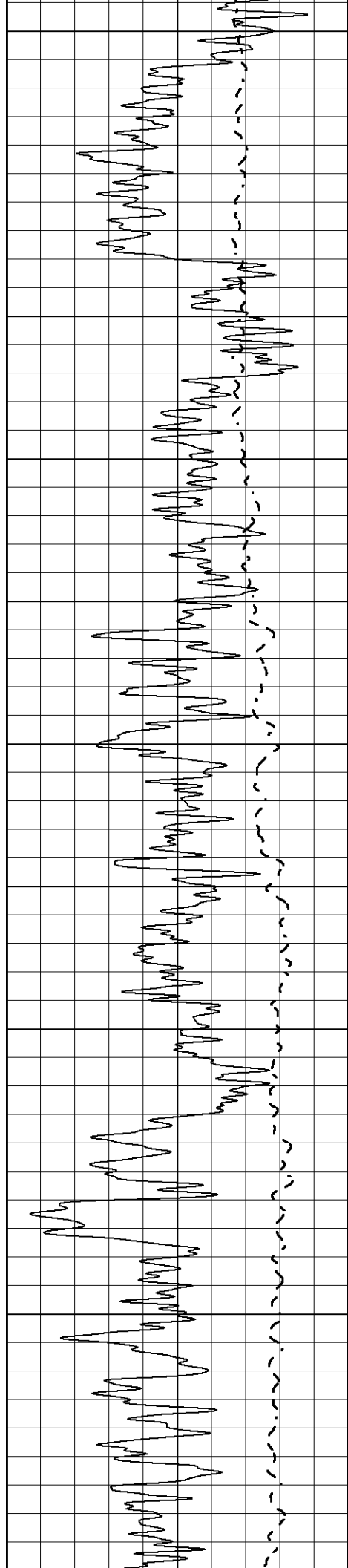


MAIN SECTION

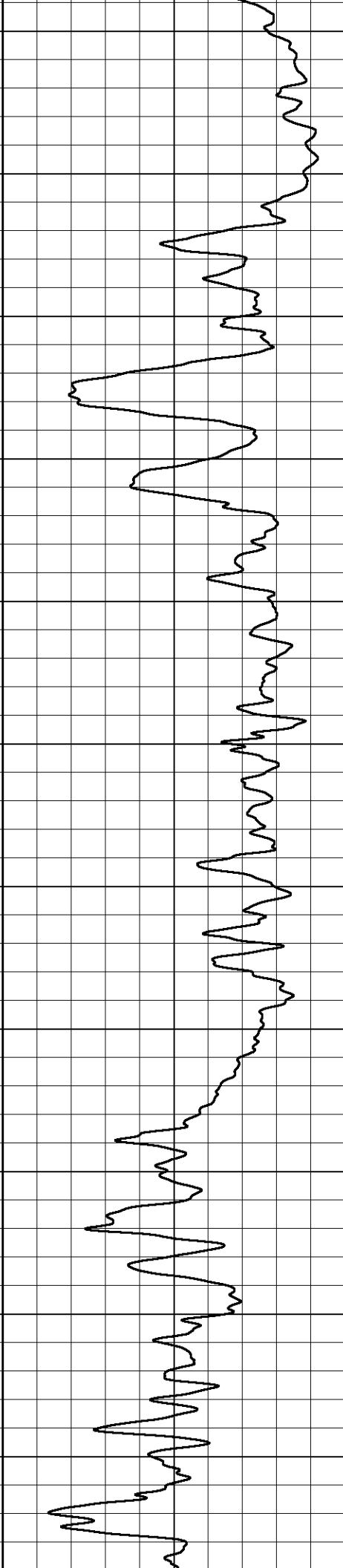
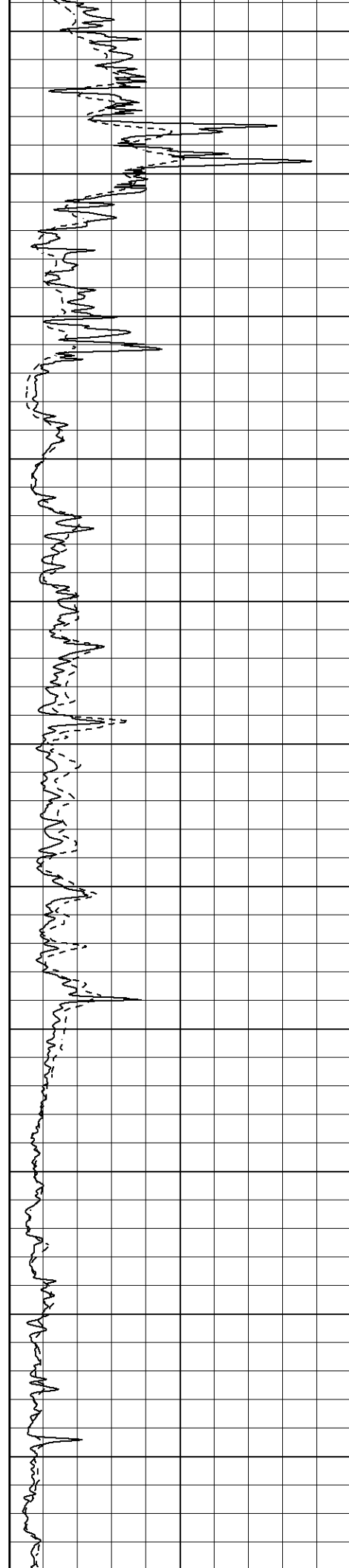
Database File	7248ddn.db
Dataset Pathname	pass3MM
Presentation Format	_dil2
Dataset Creation	Thu Nov 10 05:13:18 2022
Charted by	Depth in Feet scaled 1:600

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





450
500
550
600
650
700
750
800
850
900
950



1000

1050

1100

1150

1200

1250

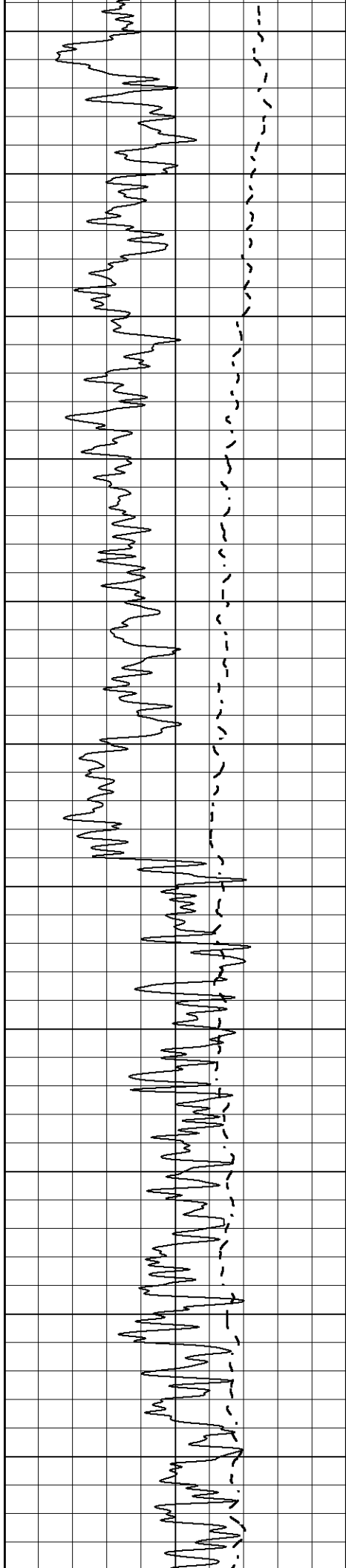
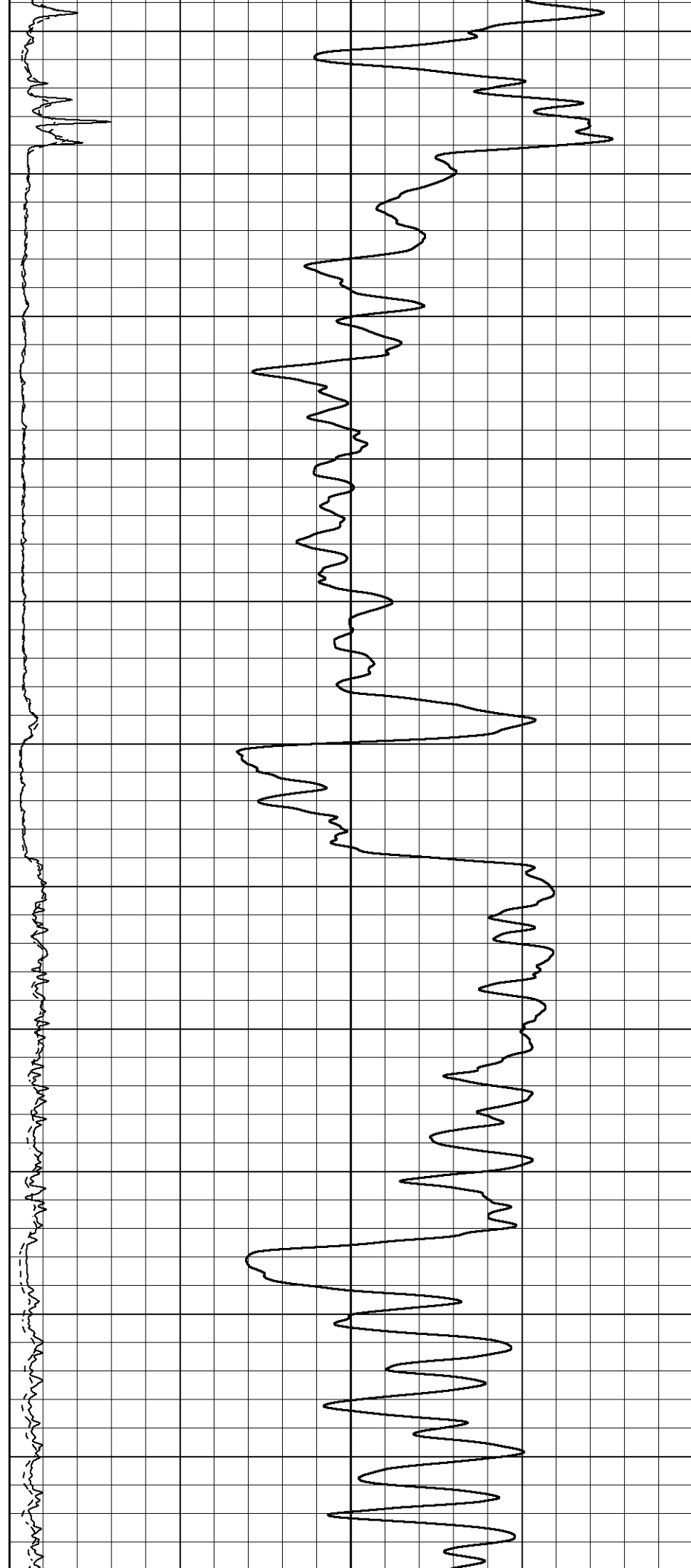
1300

1350

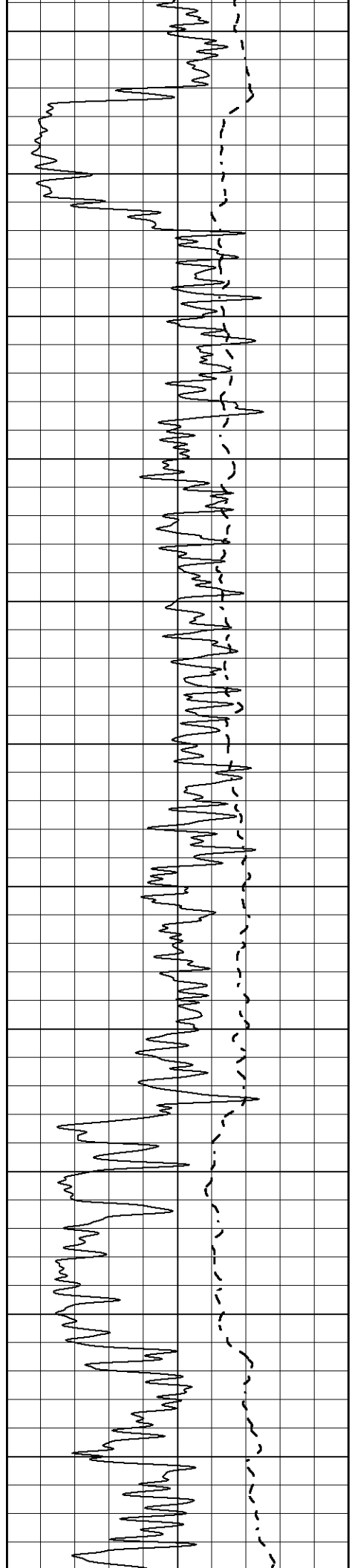
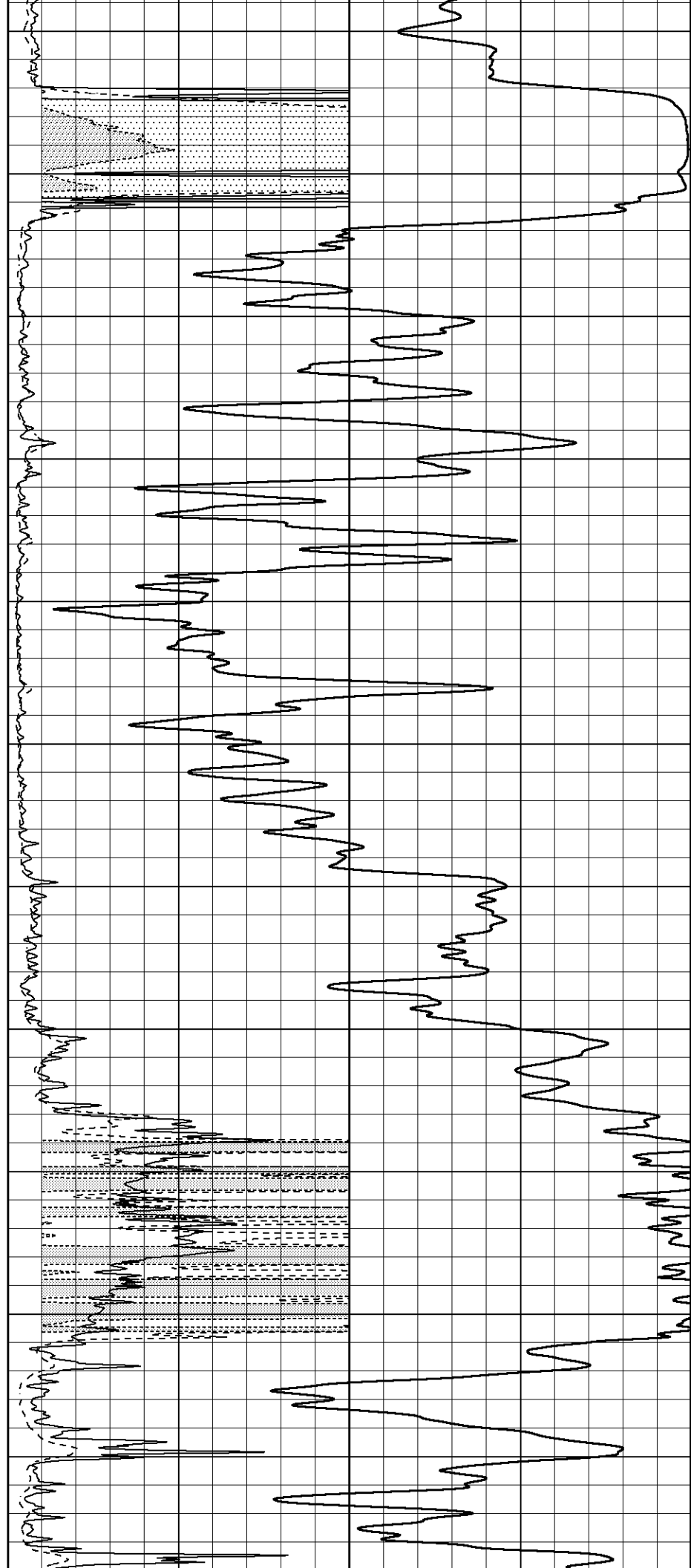
1400

1450

1500



1550
1600
1650
1700
1750
1800
1850
1900
1950
2000
2050



2100

2150

2200

2250

2300

2350

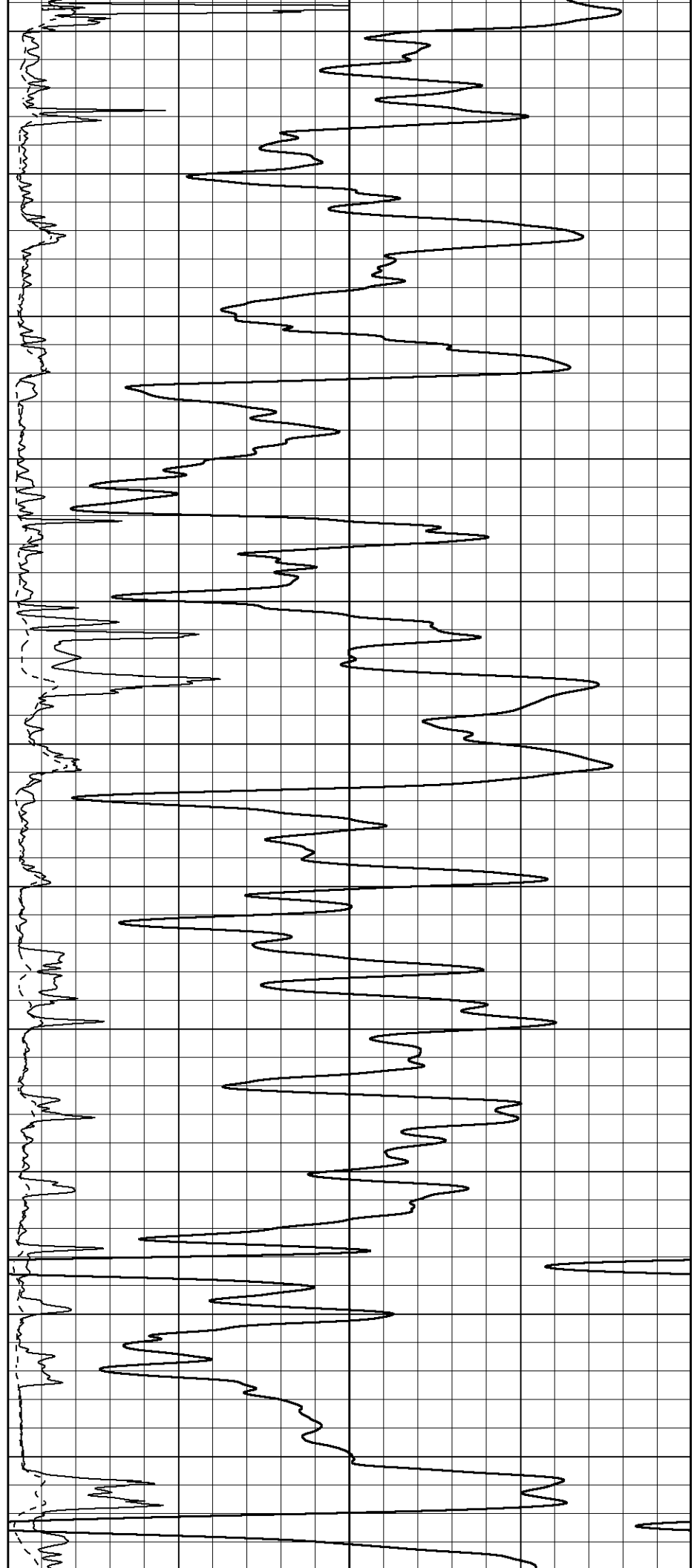
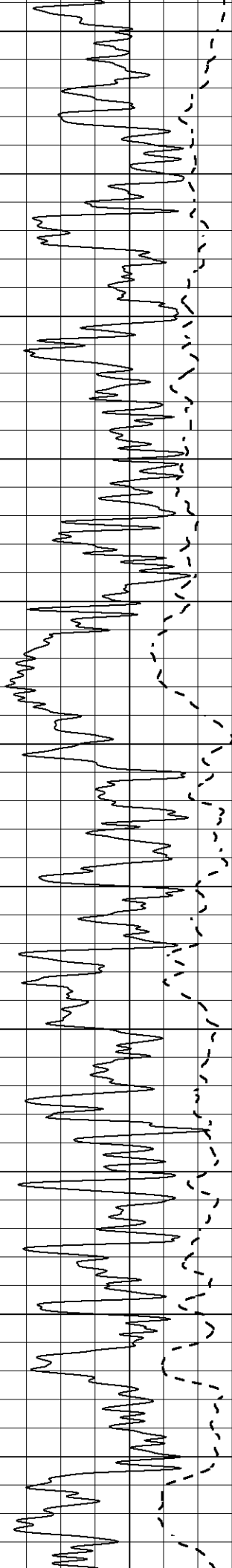
2400

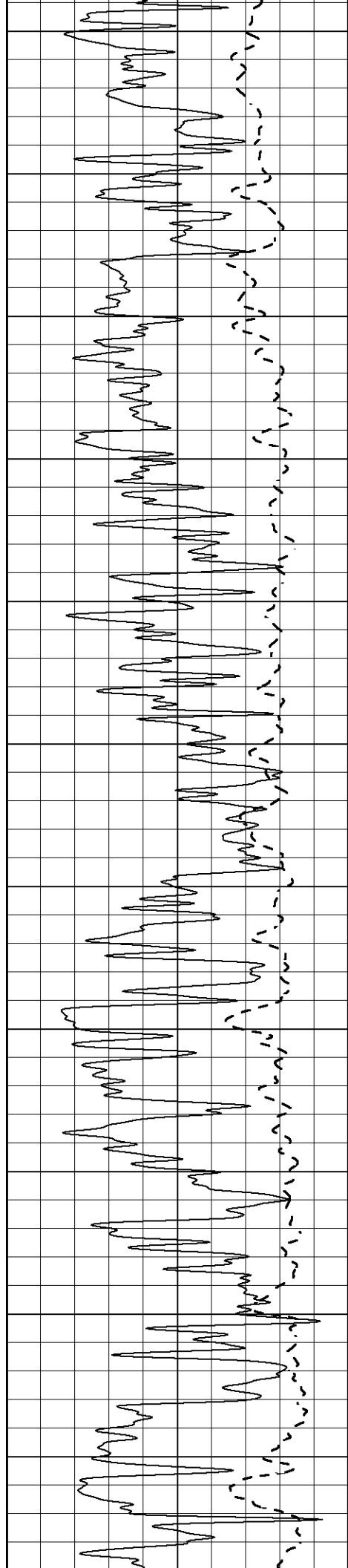
2450

2500

2550

2600





2650

2700

2750

2800

2850

2900

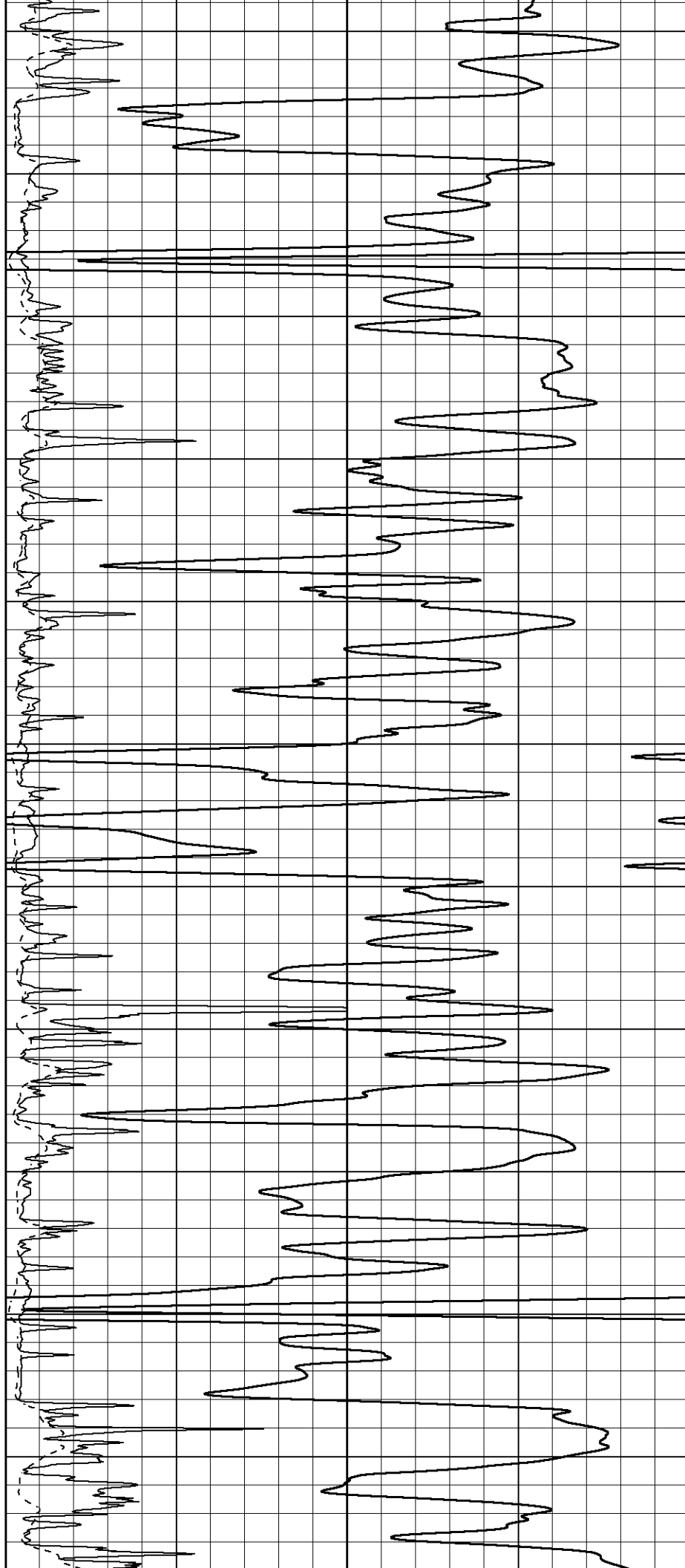
2950

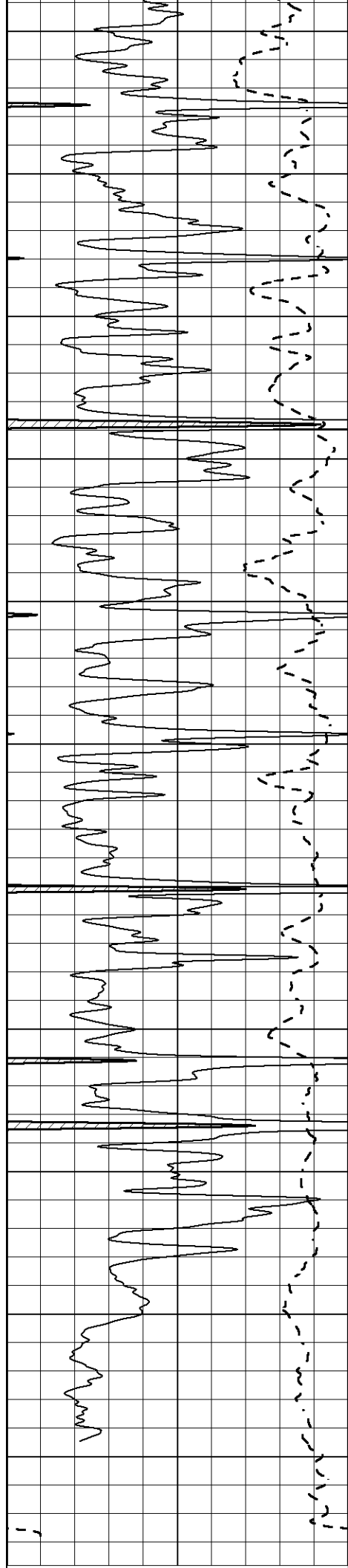
3000

3050

3100

3150





3200

3250

3300

3350

3400

3450

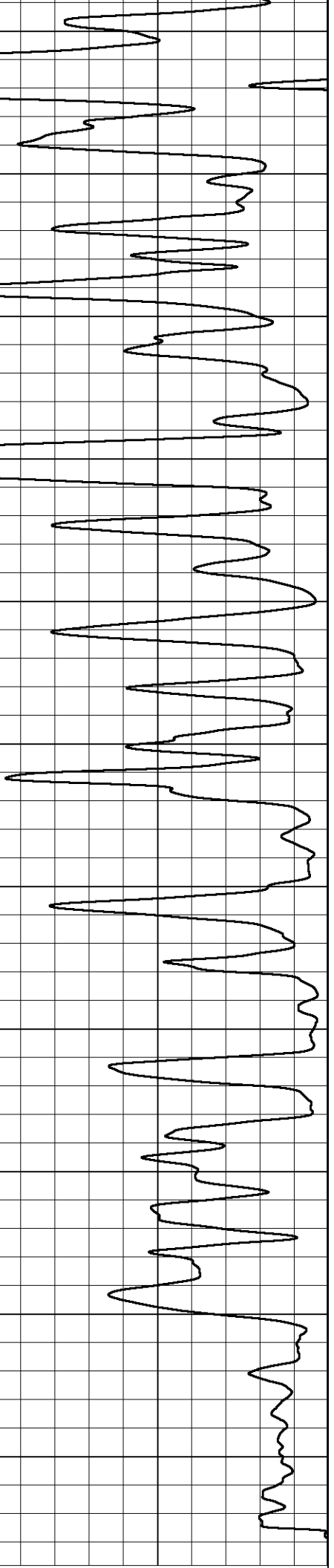
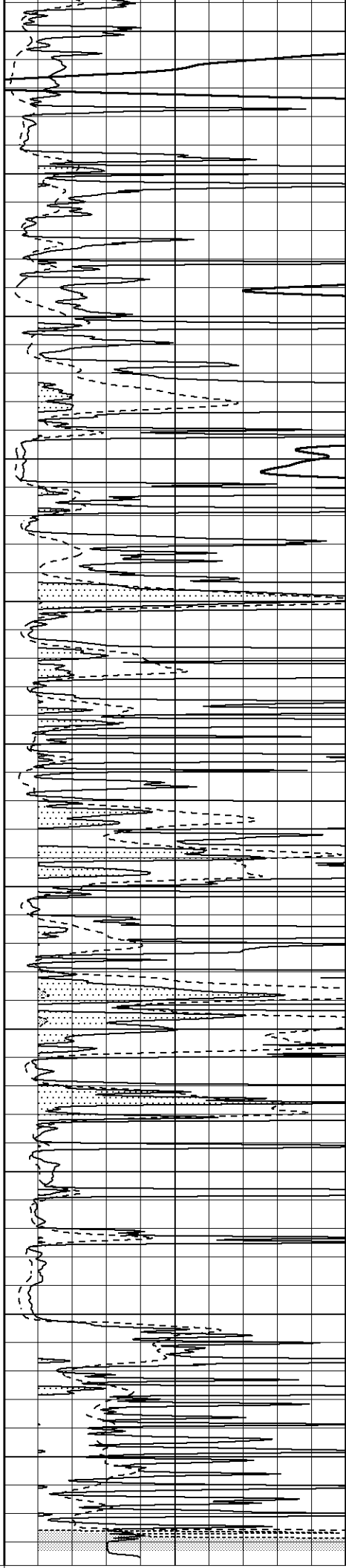
3500

3550

3600

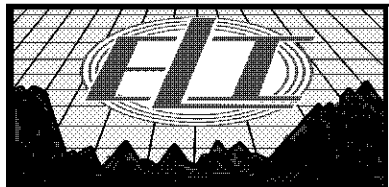
3650

3700



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

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

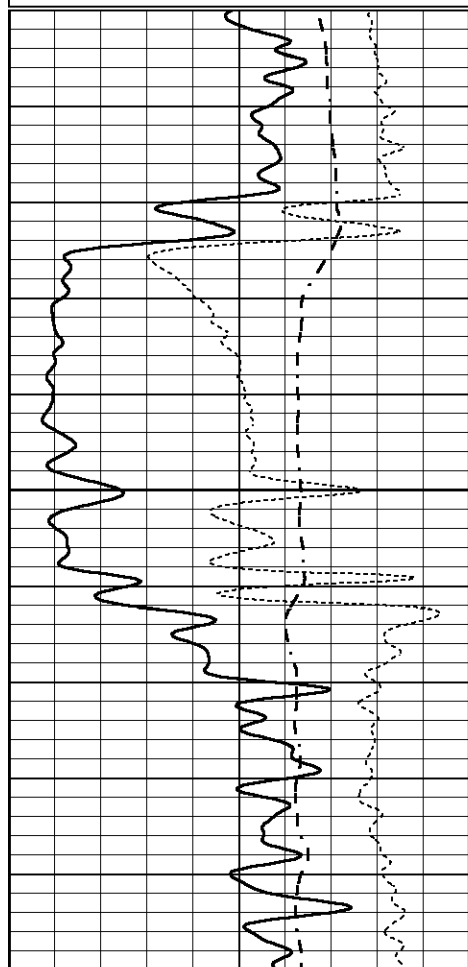


ANHYDRITE

Database File 7248ddn.db
 Dataset Pathname pass3A
 Presentation Format _dil
 Dataset Creation Thu Nov 10 04:40:14 2022
 Charted by Depth in Feet scaled 1:240

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

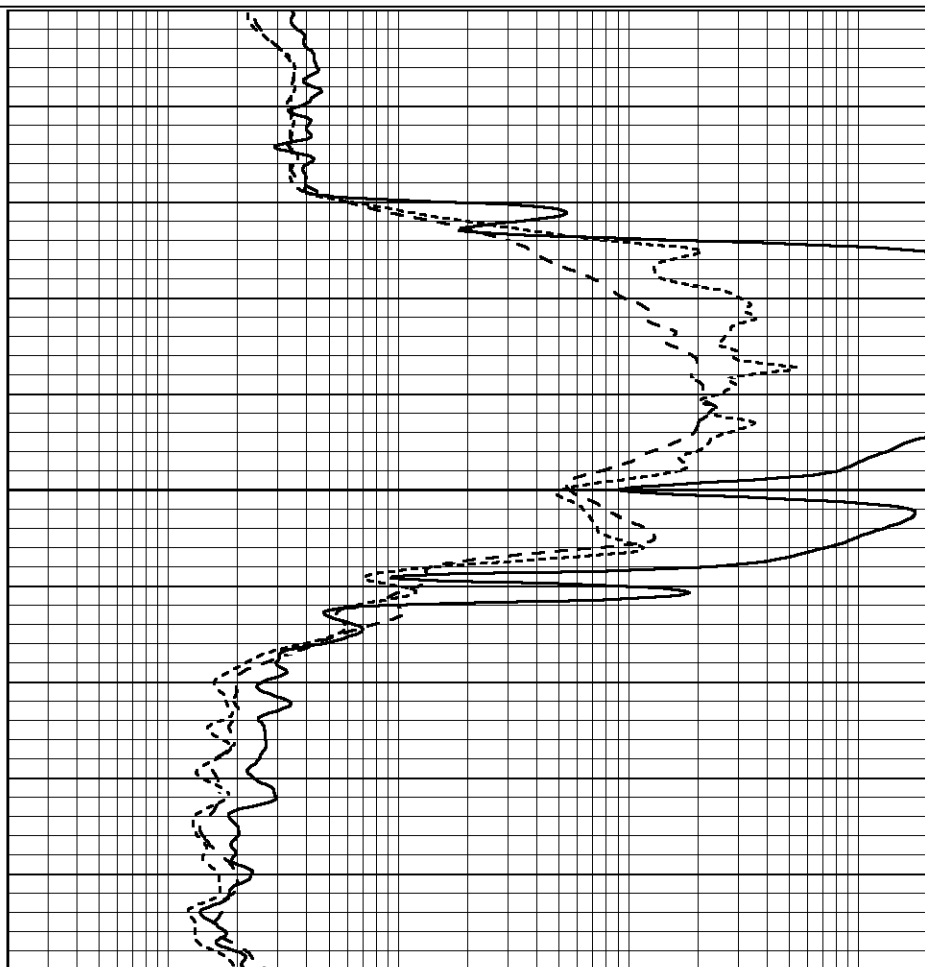
0.2	SHALLOW GUARD (Ohm-m)	2000
0.2	MEDIUM INDUCTION (Ohm-m)	2000
0.2	DEEP INDUCTION (Ohm-m)	2000



1500

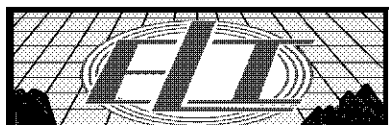
1600

1650



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



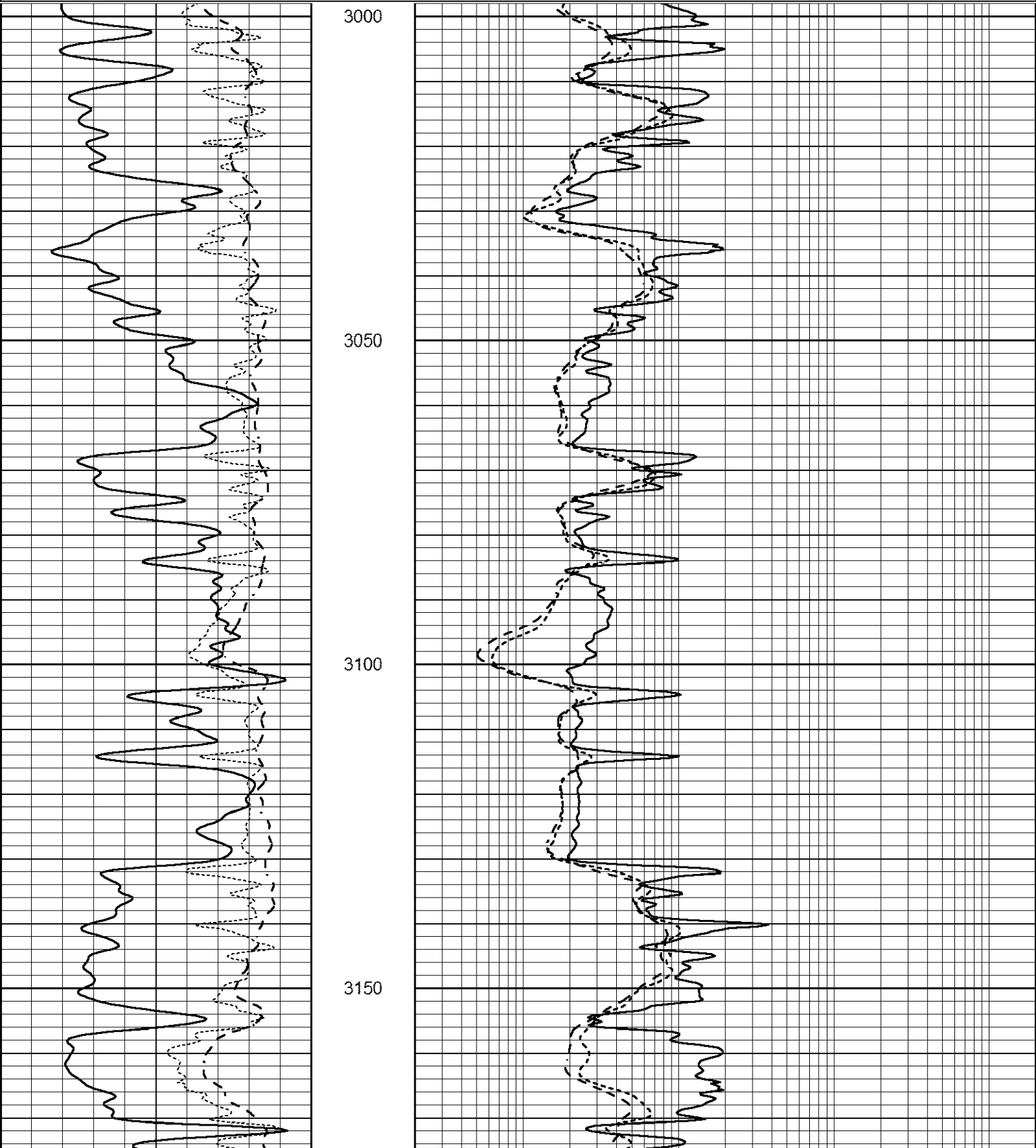
MAIN SECTION

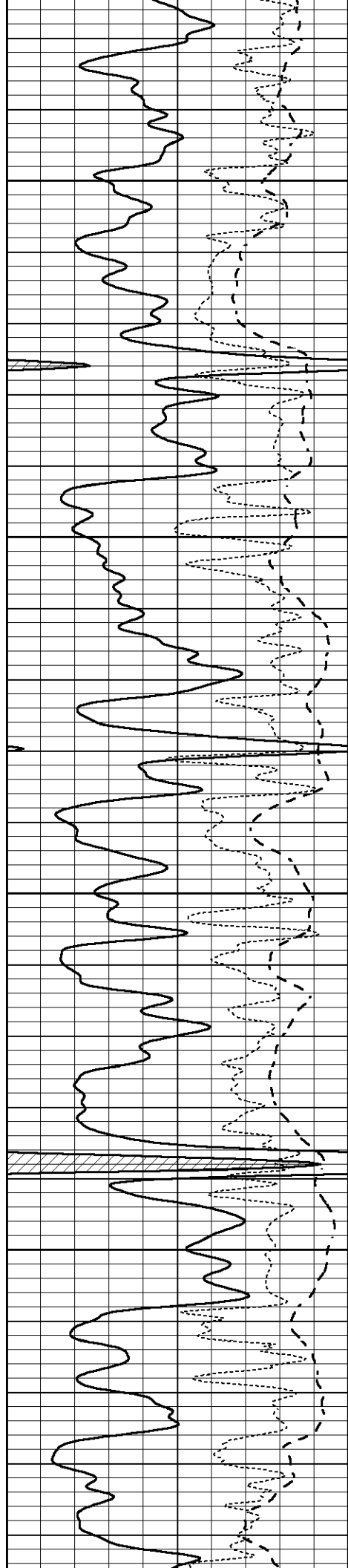
WELL LOG SECTION

Database File 7248ddn.db
Dataset Pathname pass3D
Presentation Format dil
Dataset Creation Thu Nov 10 04:28:55 2022
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



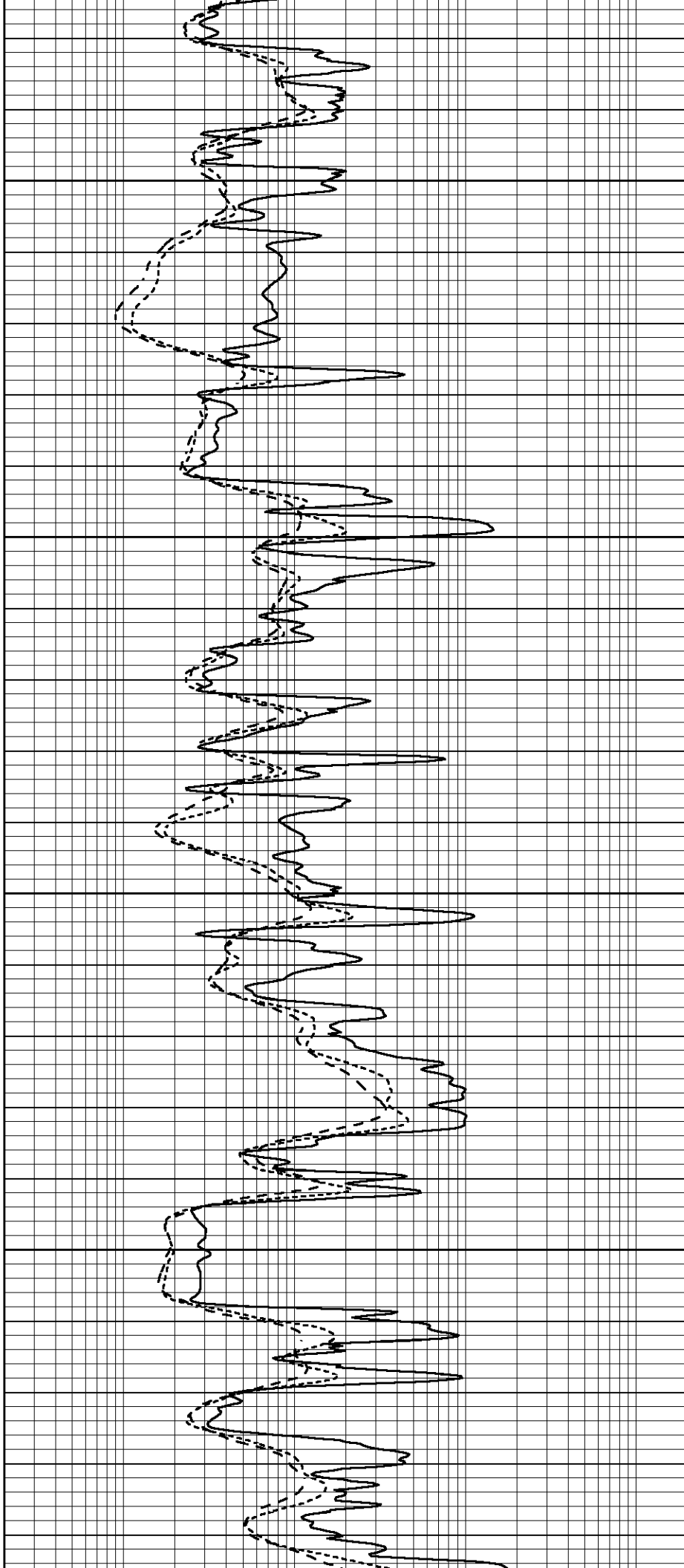


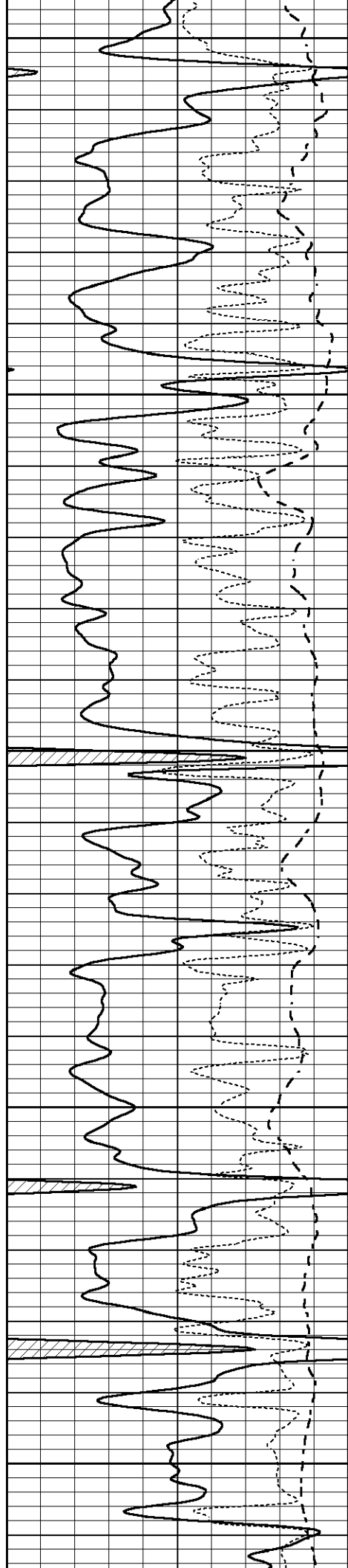
3200

3250

3300

3350





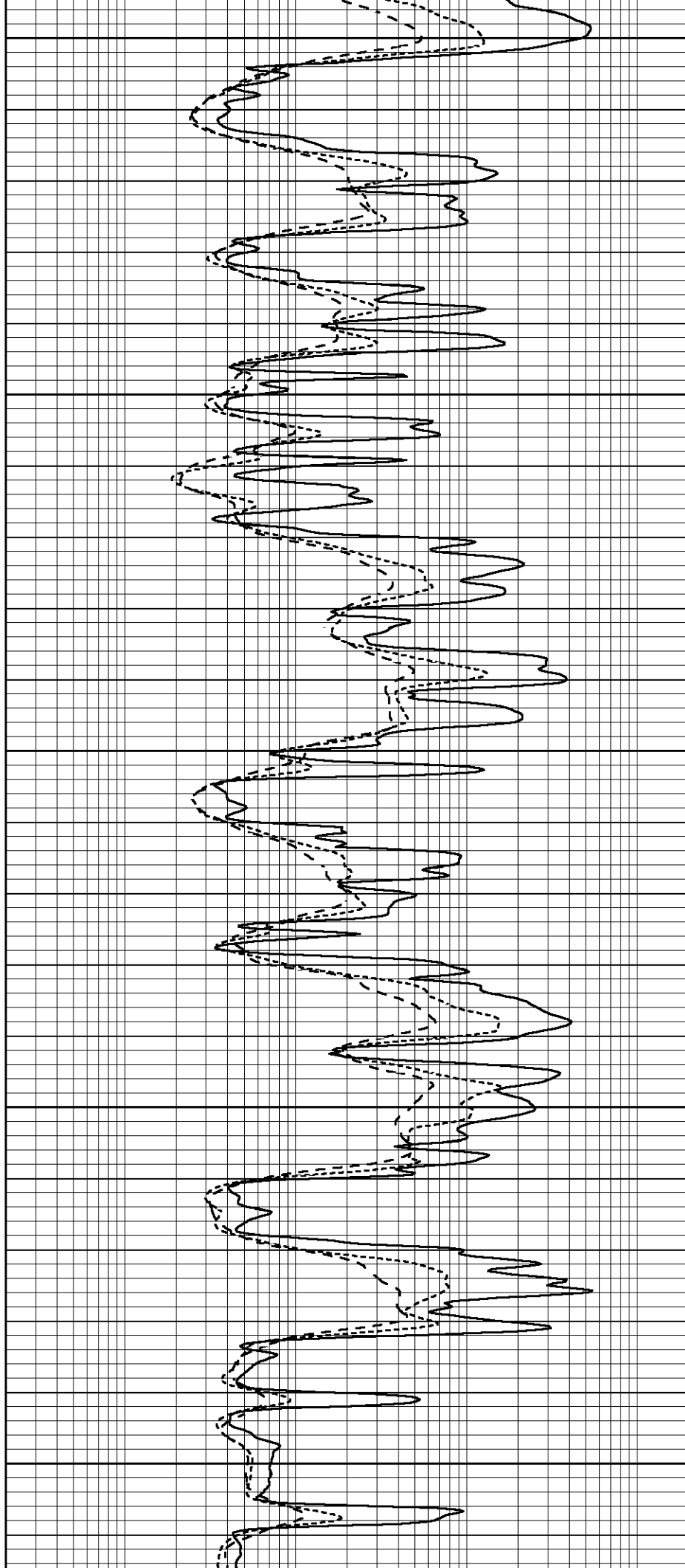
3400

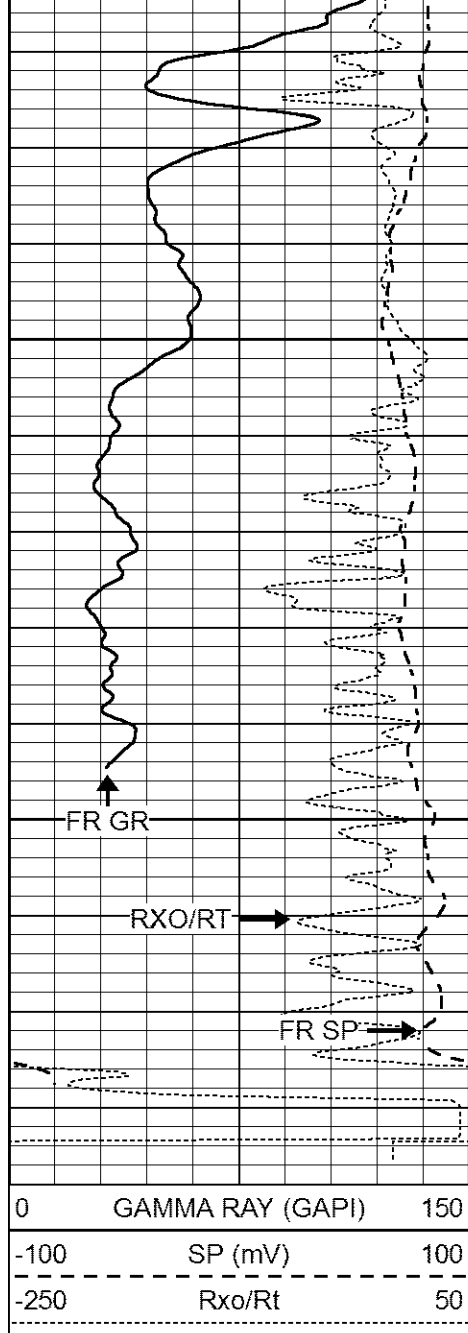
3450

3500

3550

3600

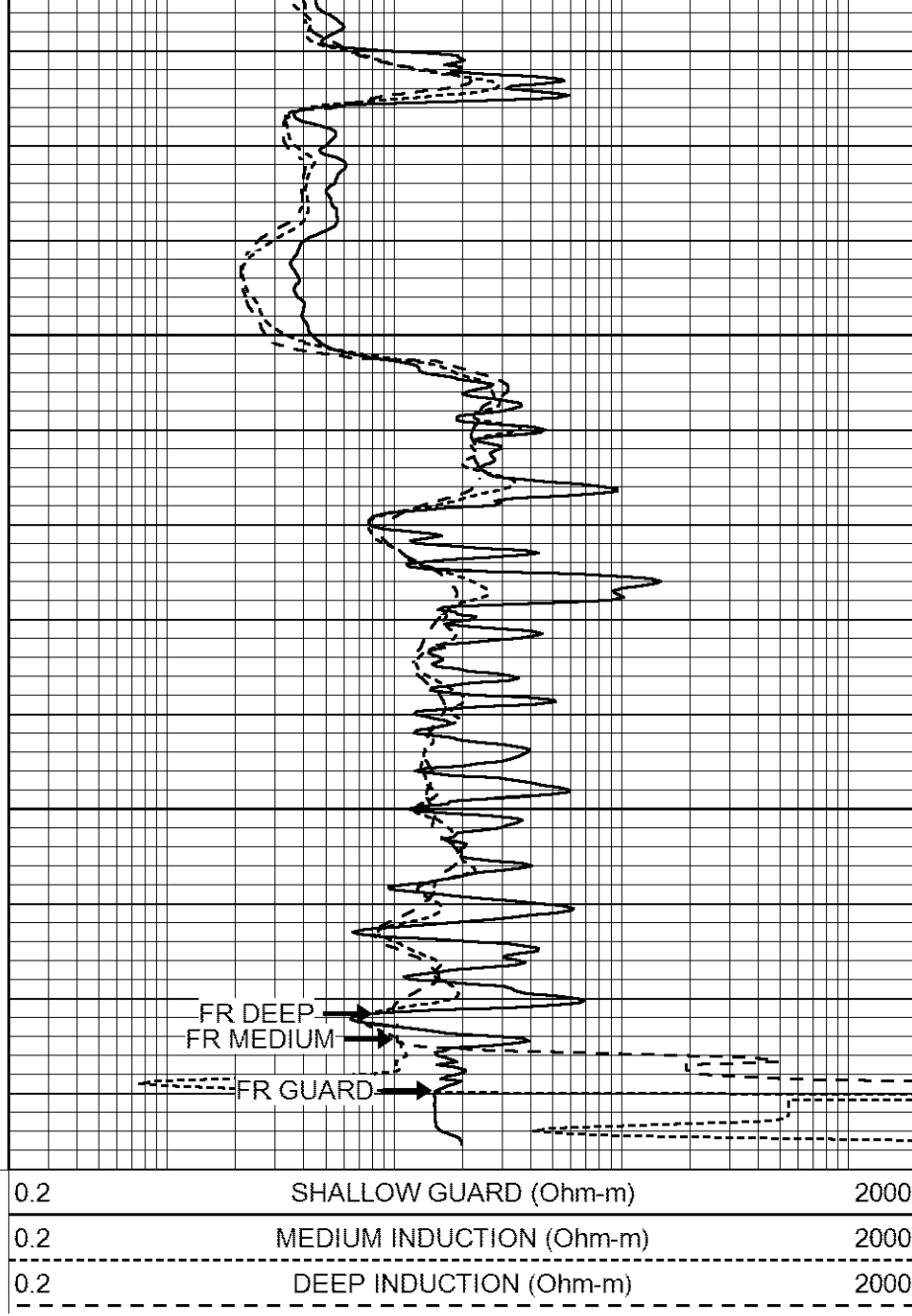




3650

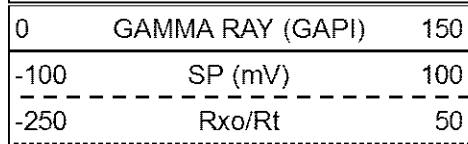
3700

LTD 3732

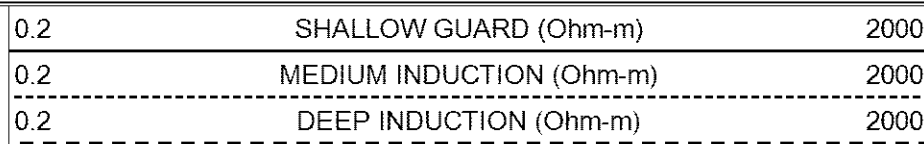


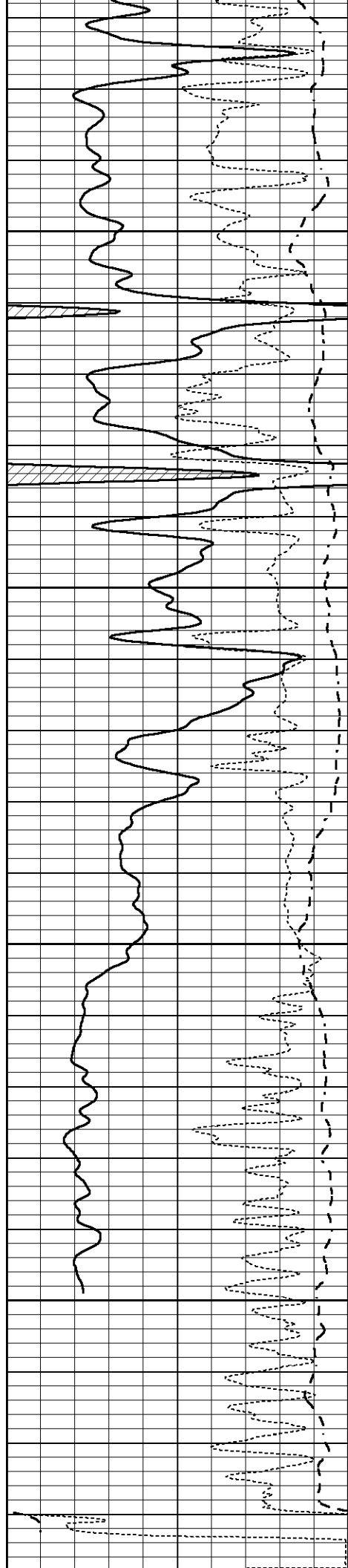
REPEAT SECTION

Database File 7248ddn.db
 Dataset Pathname pass2R
 Presentation Format _dil
 Dataset Creation Thu Nov 10 04:17:11 2022
 Charted by Depth in Feet scaled 1:240



3500



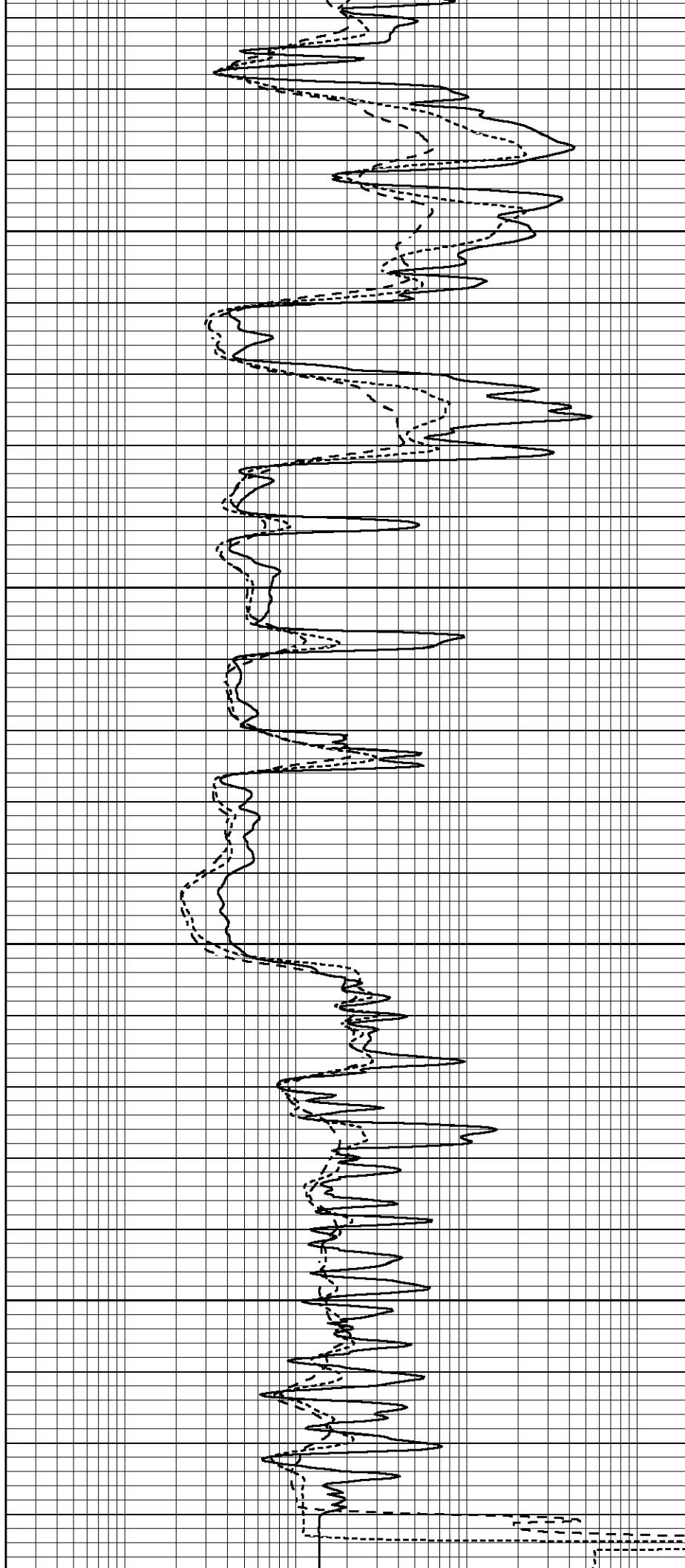


3550

3600

3650

3700



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

Calibration Report		
Database File	7248ddn.db	
Dataset Pathname	pass3MM	
Dataset Creation	Thu Nov 10 05:13:18 2022	

Dual Induction Calibration Report		
-----------------------------------	--	--

Serial-Model:	FW1410-55-Probe
Surface Cal Performed:	Thu Jun 30 01:48:00 2022
Downhole Cal Performed:	Tue Feb 19 11:44:24 2019
After Survey Verification Performed:	Tue Feb 19 11:44:27 2019

Surface Calibration								
Loop:	Readings			References			Results	
	Air	Loop		Air	Loop		m	b
Deep	0.011	0.656	V	1.000	400.000	mmho/m	650.000	-3.000
Medium	-0.000	0.731	V	1.000	464.000	mmho/m	632.856	-10.500
Internal:	Zero	Cal		Zero	Cal		m	b
Deep	0.007	0.649	V	0.000	400.000	mmho/m	623.784	-4.595
Medium	0.004	0.743	V	0.000	464.000	mmho/m	627.284	-2.251

Downhole Calibration								
	Readings			References			Results	
	Zero	Cal		Zero	Cal		m'	b'
Deep	-0.824	395.917	mmho/m	-0.976	397.550	mmho/m	1.004	-0.149
Medium	3.565	471.327	mmho/m	3.468	471.590	mmho/m	1.001	-0.099
LL3		7.503	V		1500.000	Ohm-m		
		0.001	V		20.000	Ohm-m		
		-7.481	V		3745.000	mmho-m		

After Survey Verification								
	Readings			Targets			Results	
	Zero	Cal		Zero	Cal		m'	b'
Deep	0.000	0.000	mmho/m	-0.824	395.917	mmho/m	1.000	0.000
Medium	0.000	0.000	mmho/m	3.565	471.327	mmho/m	1.000	0.000
LL3		0.000	Ohm-m		1500.000	Ohm-m		
		0.000	Ohm-m		20.000	Ohm-m		
		0.000	mmho-m		3745.000	mmho-m		

Litho Density Calibration Report		
Serial: 140704		
Model: V4_10P		
Source Number: 74GBq-19		

Master Calibration				Performed: Tue Oct 25 14:02:07 2022
	Background	Aluminum	Magnesium	
Window 1	501.98	5377.33	23235.87	cps
Window 2	38.66	1167.13	5462.52	cps
Window 4	219.95	1265.38	5296.65	cps

Window 5	535.47	7345.58	14269.59	cps	
Window 6	42.48	1172.64	2113.12	cps	
Window 8	252.82	2368.74	4743.90	cps	
Bulk Density	-	2.6020	1.6830	g/cc	
Pe	-	3.0000	2.5070	b/e	
LS Alpha:	: -1.8018	SS Alpha:	: -0.8503	LS CPE:	: 1.2527
LS Beta:	: 116585.8005	SS Beta:	: 19984.2984	SS CPE:	: 1.5732

Before Survey Background Counts Verification			Performed: Wed Dec 31 18:00:00 1969	
Window 1	0.00	cps		
Window 2	0.00	cps		
Window 4	0.00	cps		
Window 5	0.00	cps		
Window 6	0.00	cps		
Window 8	0.00	cps		

After Survey Background Counts Verification			Performed: Wed Dec 31 18:00:00 1969	
Window 1	0.00	cps		
Window 2	0.00	cps		
Window 4	0.00	cps		
Window 5	0.00	cps		
Window 6	0.00	cps		
Window 8	0.00	cps		

Lithodensity Caliper Calibration			Performed: Tue Oct 25 14:02:07 2022		
Results	Readings		References (in)		
	Low	High	Low	High	
	9378.6	12243.0	8.0	14.0	
					Gain
					Offset
					0.0
					-11.8

Before Survey Caliper Verification			Performed:		
	Reference	Reading			
Caliper (in)					

After Survey Caliper Verification			Performed:		
	Reference	Reading			
Caliper (in)					

Compensated Neutron Calibration Report					
--	--	--	--	--	--

Serial Number:		080621PMC			
Tool Model:		NABORS			

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:	7		
Tool Model:	Probe1		
Performed:	Thu May 26 08:56:46 2022		
Calibrator Value:	1.0	GAPI	
Background Reading:	0.0	cps	
Calibrator Reading:	1.0	cps	
Sensitivity:	0.5500	GAPI/cps	