



# DUAL INDUCTION LOG

Company EDISON OPERATING COMPANY, LLC.  
 Well SHORE TRUST #1-28  
 Field GOBIN  
 County STAFFORD State KANSAS

Location: API #: 15-185-24111-0000  
 2310' FSL & 330' FEL  
 NE - NE - SE  
 SEC 28 TWP 25S RGE 13W  
 Permanent Datum GROUND LEVEL Elevation 1932  
 Log Measured From KELLY BUSHING 10' A.G.L.  
 Drilling Measured From KELLY BUSHING  
 Other Services CDL/CNL/PE MEL/SON  
 Elevation K.B. 1942  
 D.F. 1940  
 G.L. 1932

Date	7/1/22		
Run Number	ONE		
Depth Driller	4400		
Depth Logger	4402		
Bottom Logged Interval	4400		
Top Log Interval	00		
Casing Driller	8 5/8"@376'		
Casing Logger	376		
Bit Size	7 7/8		
Type Fluid in Hole	CHEMICAL MUD	CHLORIDES 9,000 PPM	
Density / Viscosity	9.5/56		
pH / Fluid Loss	10.0/8.4		
Source of Sample	FLOWLINE		
Rm @ Meas. Temp	.700@80F		
Rmt @ Meas. Temp	.525@80F		
Rmc @ Meas. Temp	.840@80F		
Source of Rmf / Rmc	MEASUREMENT		
Rm @ BHT	.467@120F		
Time Circulation Stopped	2.5 HOURS		
Time Logger on Bottom	2:30 P.M.		
Maximum Recorded Temperature	120F		
Equipment Number	3802		
Location	HAYS, KANSAS		
Recorded By	COLE ROBBEN		
Witnessed By	DEREK PATTERSON		

<<< 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

GREAT BEND, KANSAS SOUTH TO HIGHWAY 281 & HIGHWAY 50 ROUNDABOUT,  
 7.5 MILES SOUTH ON HIGHWAY 281, WEST INTO

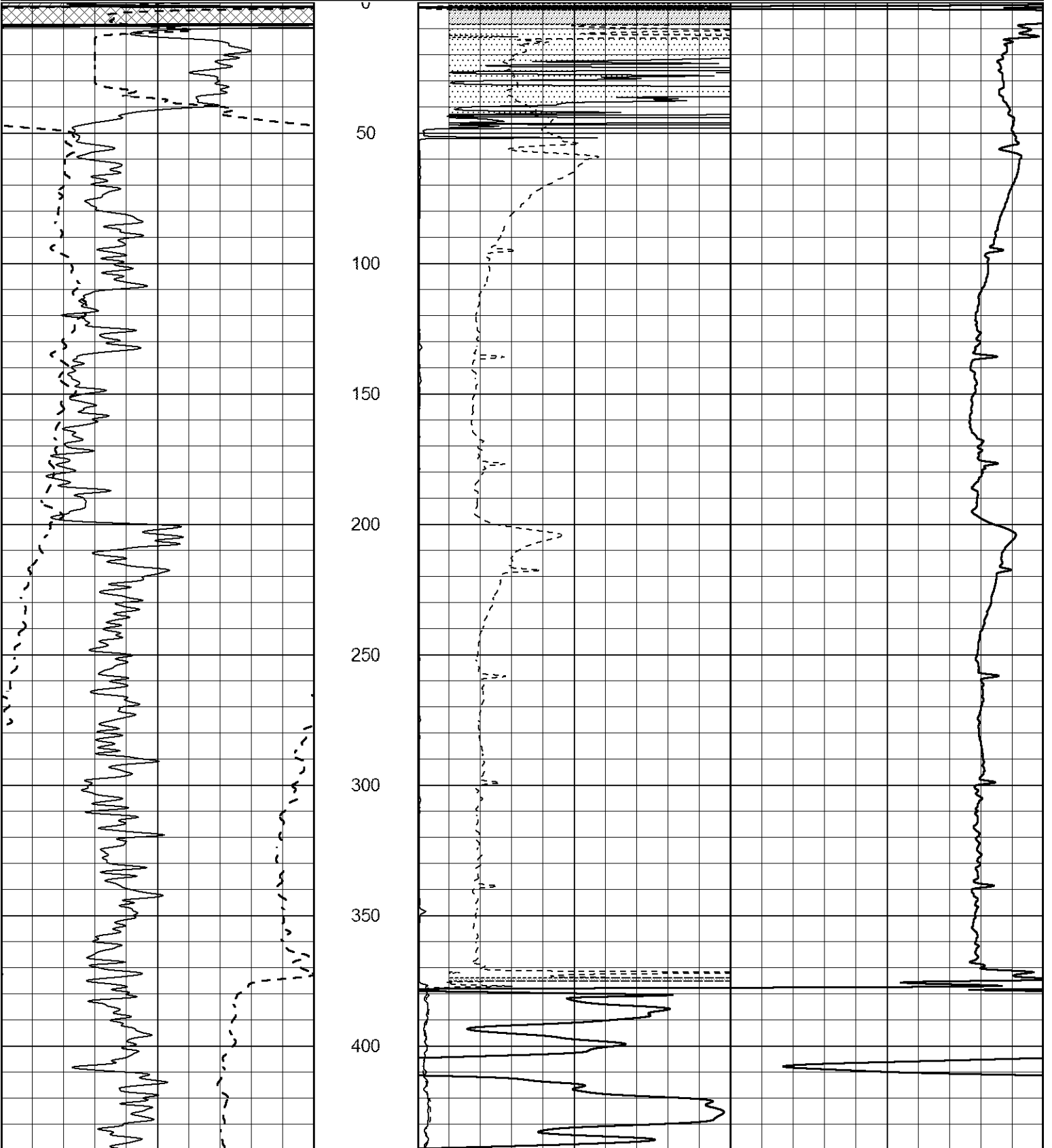


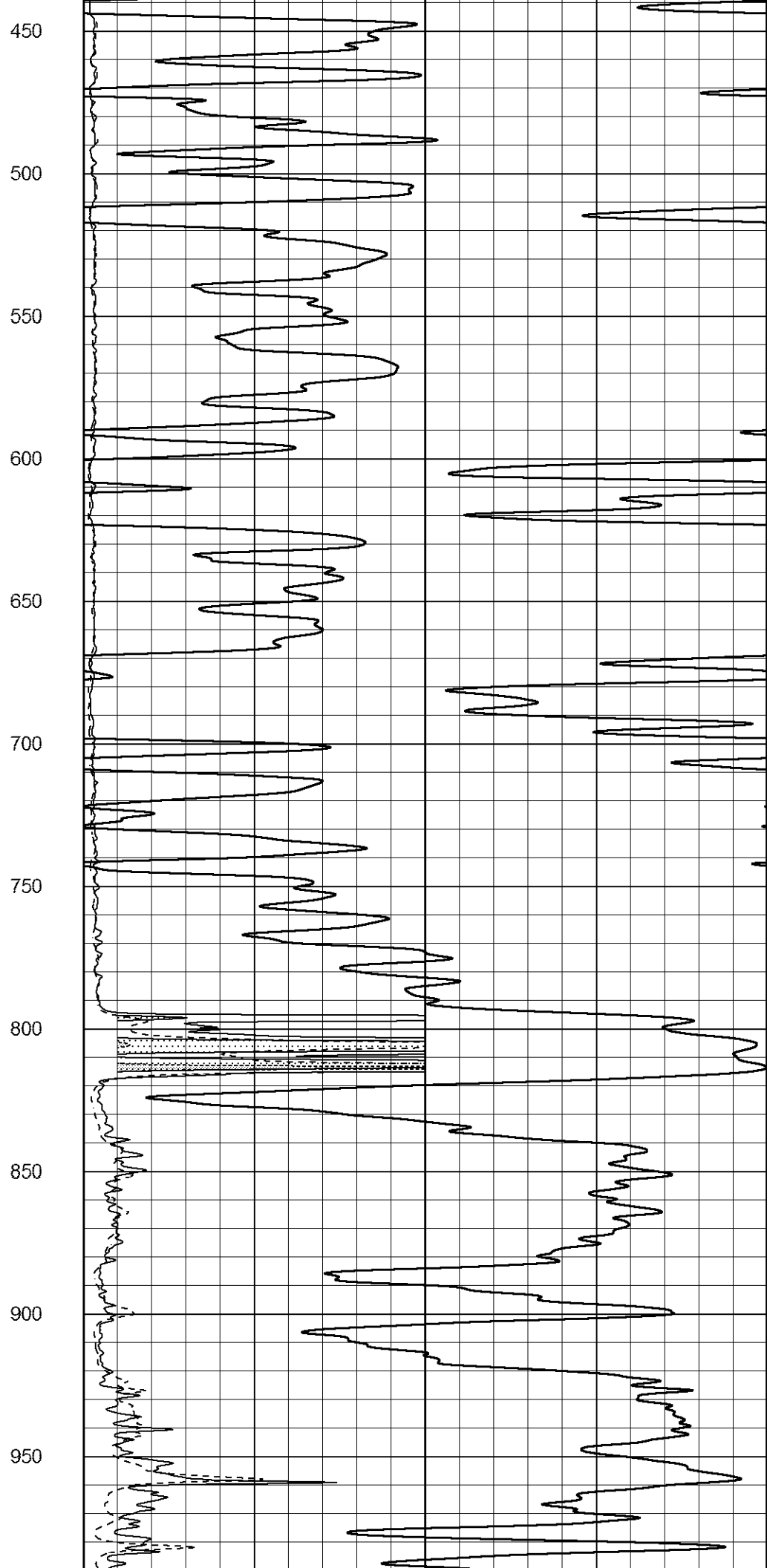
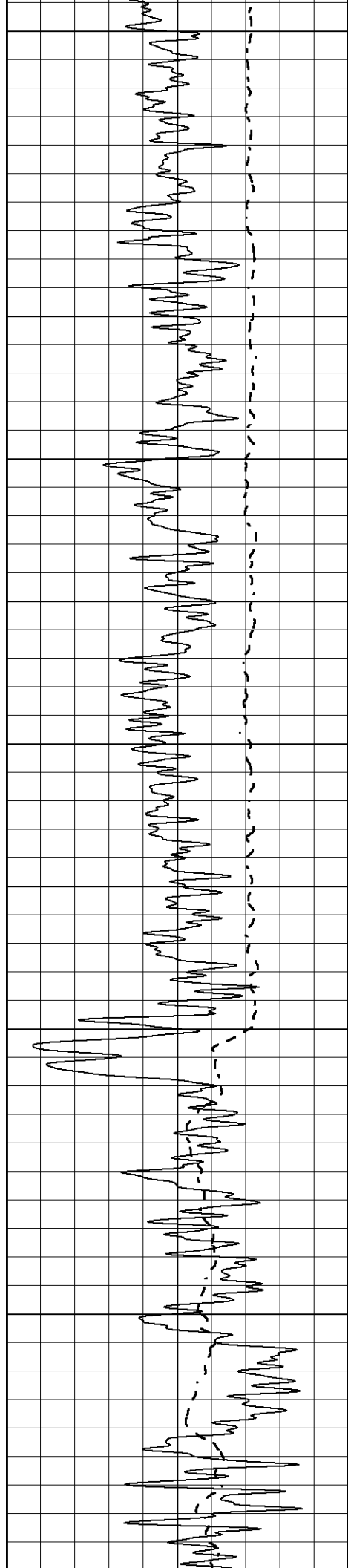
# MAIN SECTION

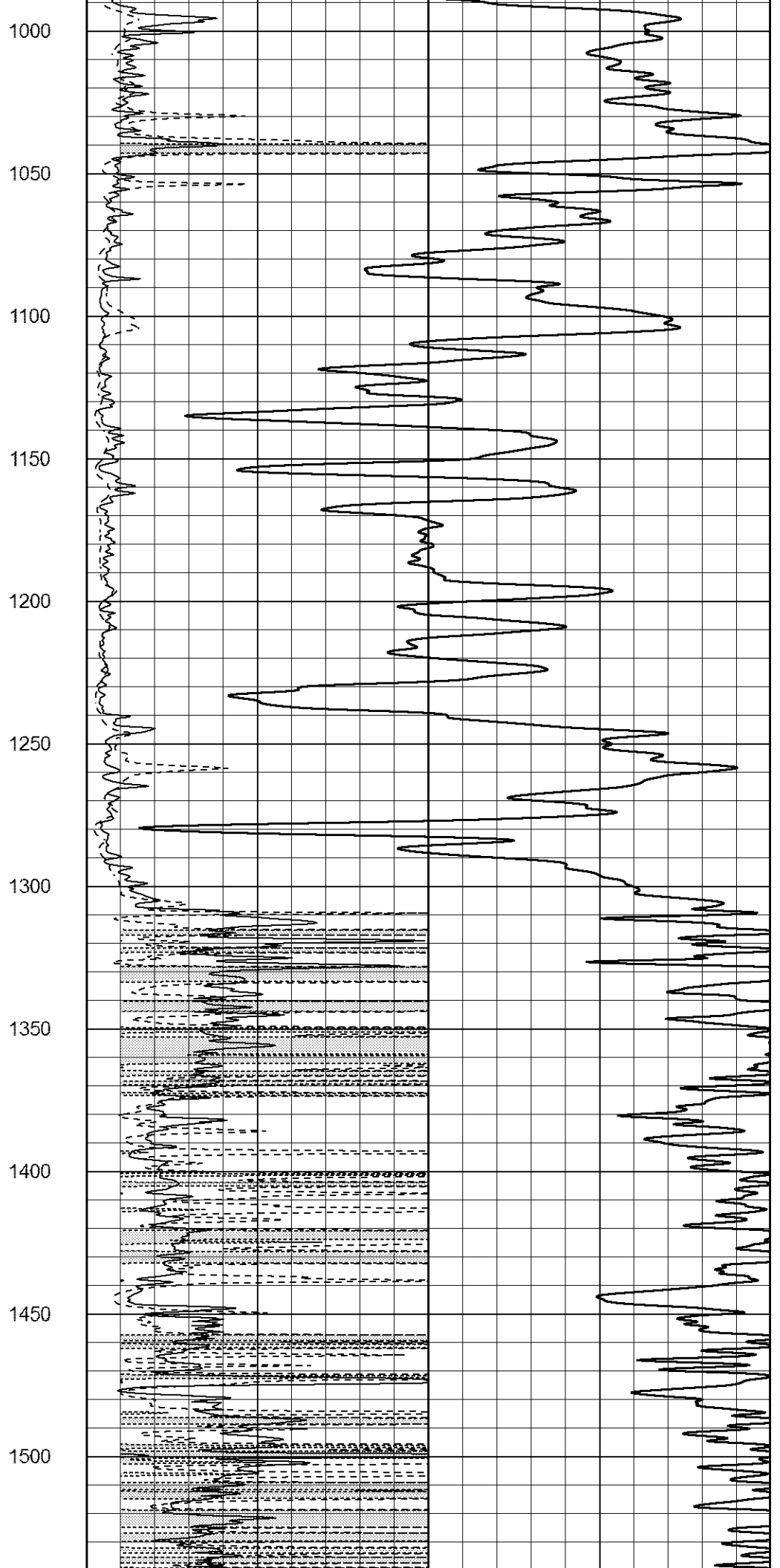
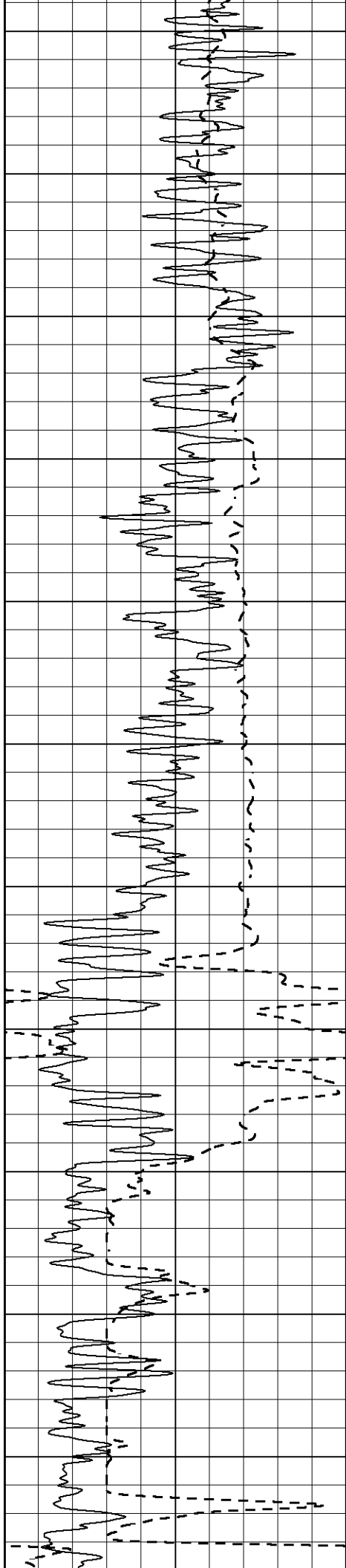
Database File 6751pe.db  
 Dataset Pathname pass4.5  
 Presentation Format \_dil2  
 Dataset Creation Fri Jul 01 16:06:59 2022  
 Charted by Depth in Feet scaled 1:600

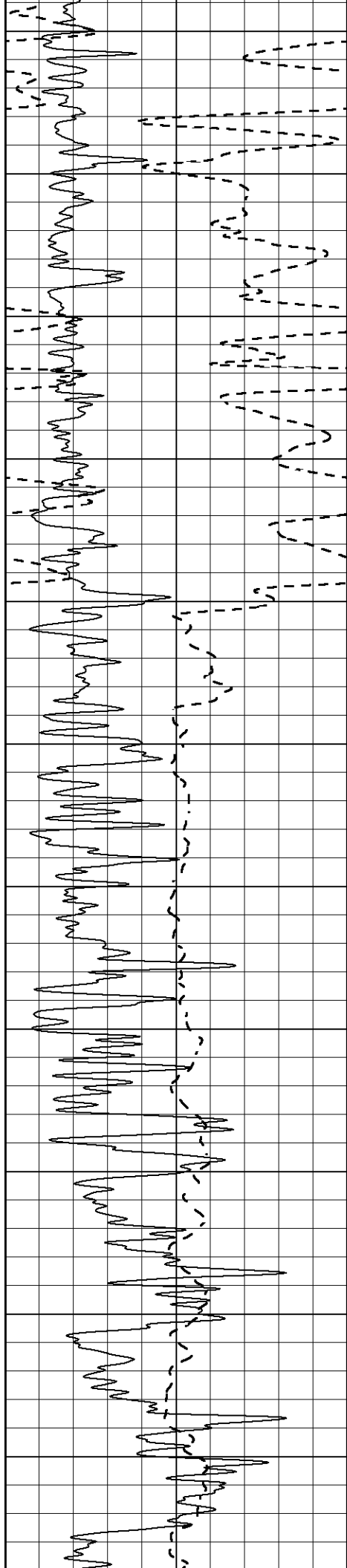
0 Gamma Ray (GAPI) 150  
 -100 SP (mV) 100

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

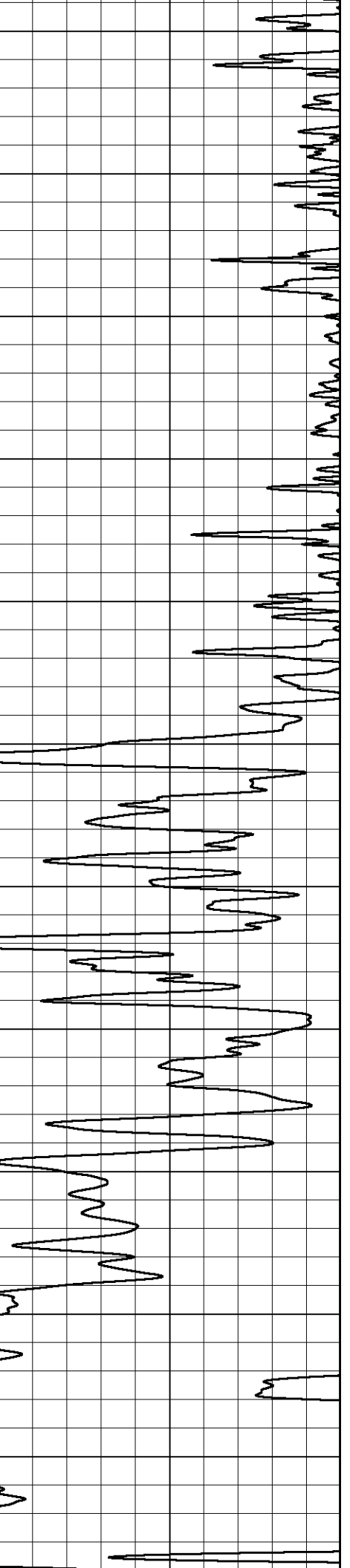
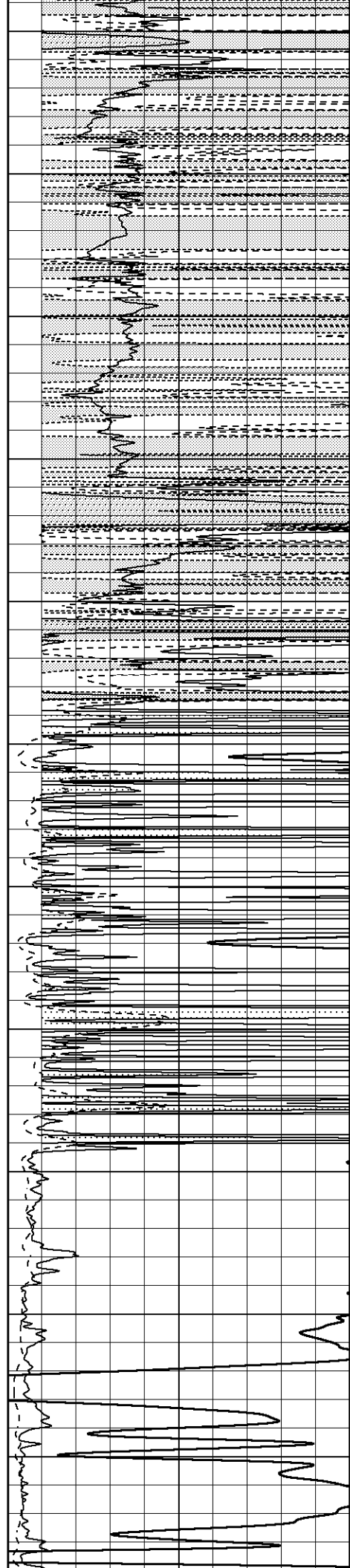




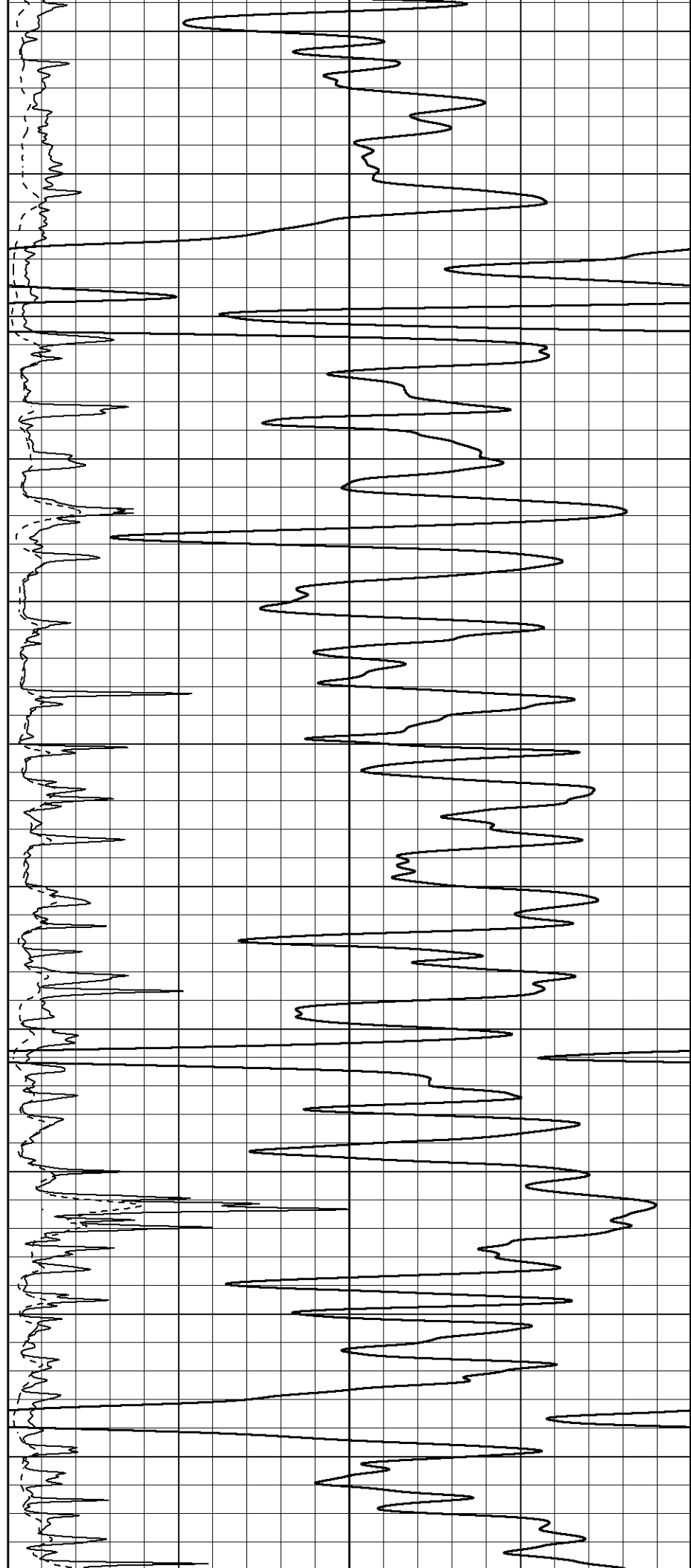
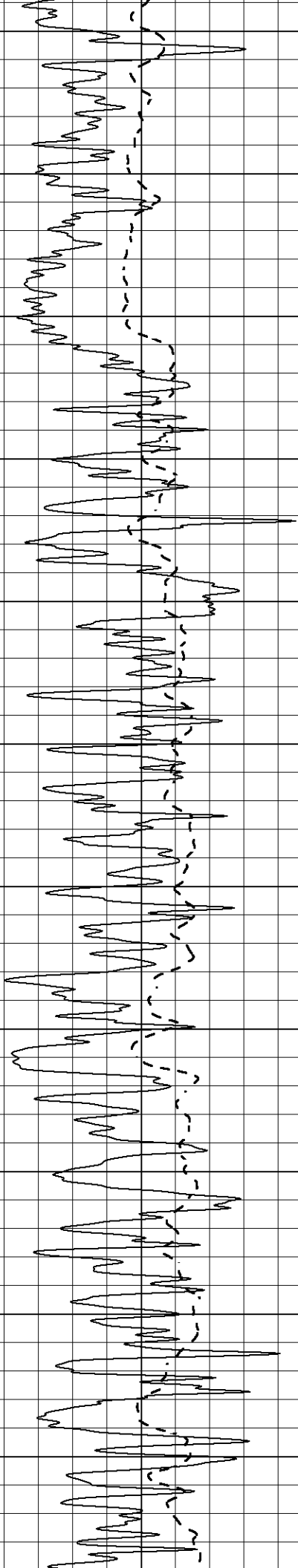




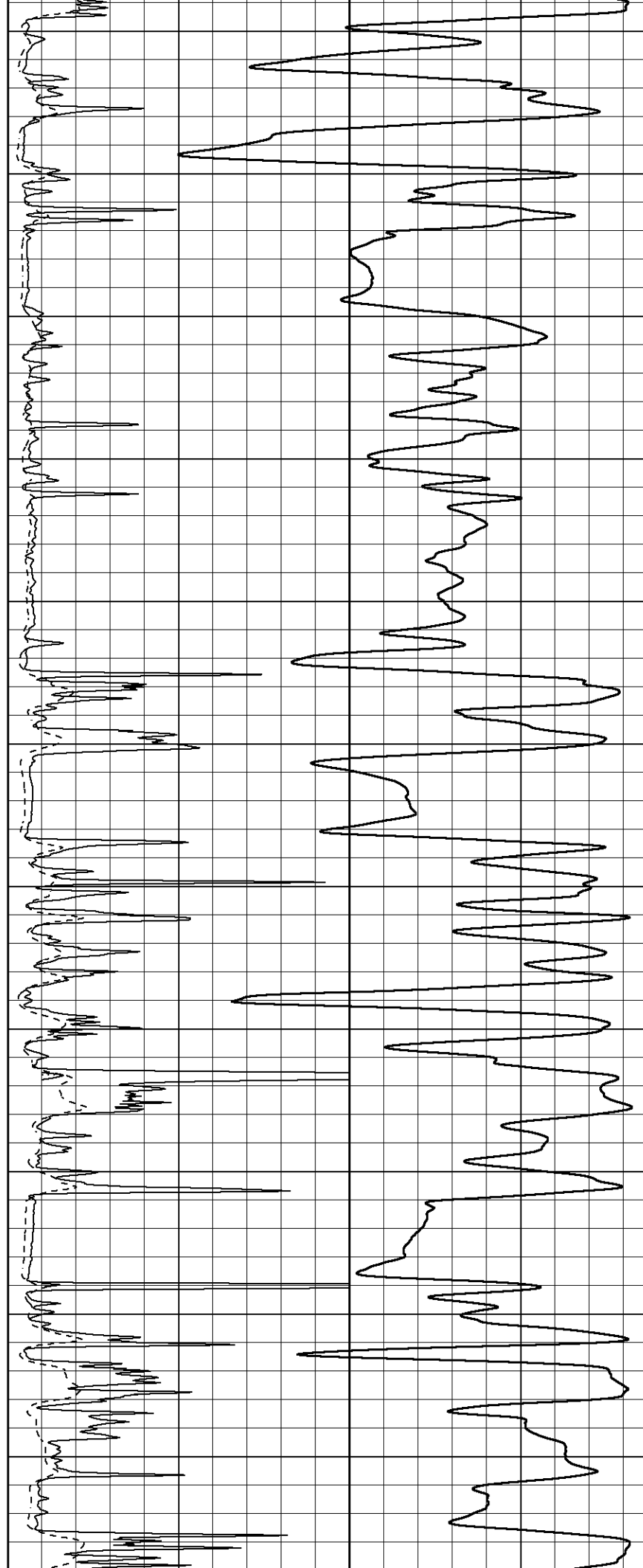
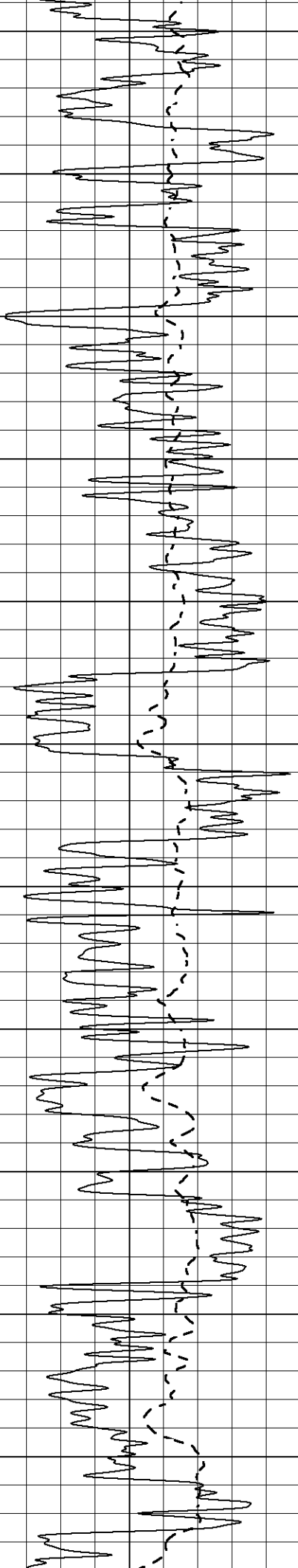
1550  
1600  
1650  
1700  
1750  
1800  
1850  
1900  
1950  
2000  
2050

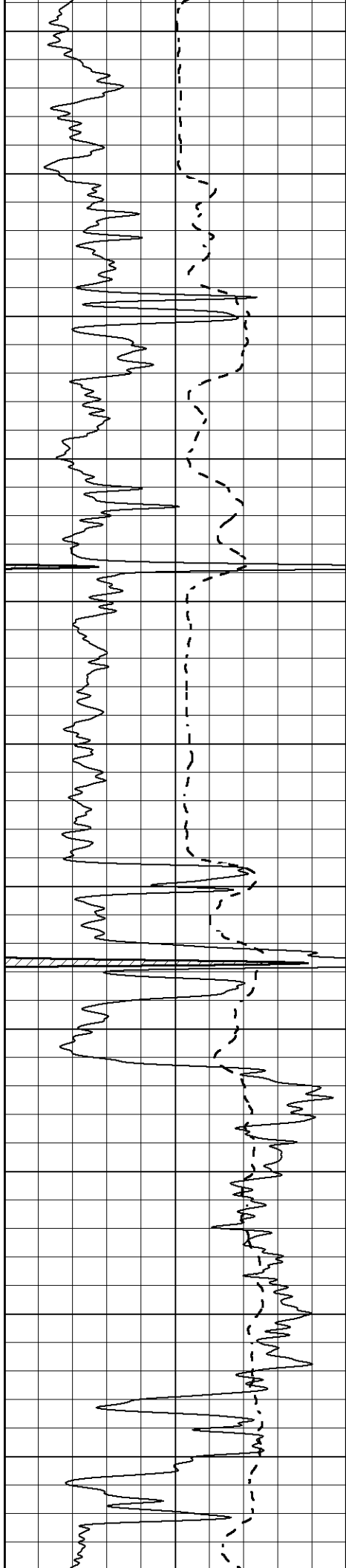


2100  
2150  
2200  
2250  
2300  
2350  
2400  
2450  
2500  
2550  
2600

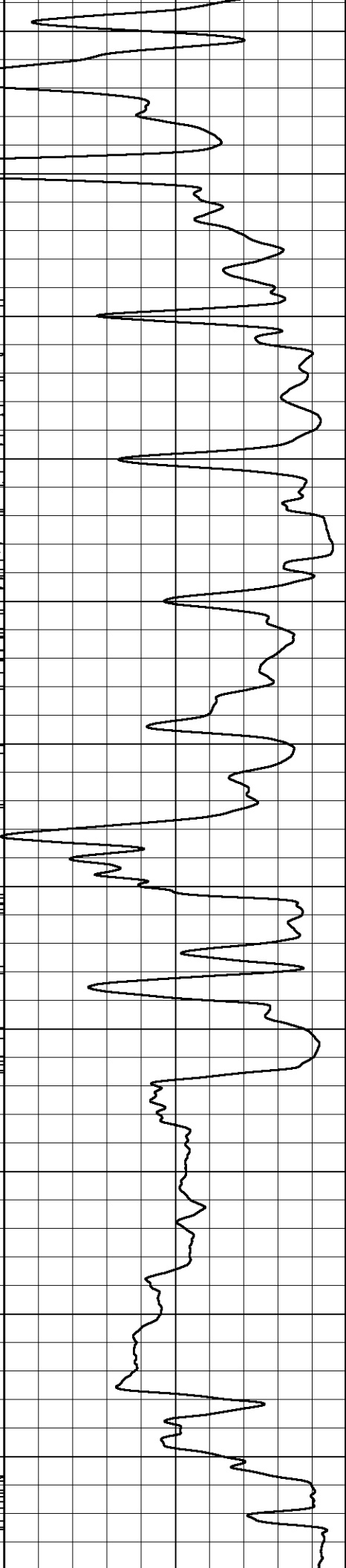
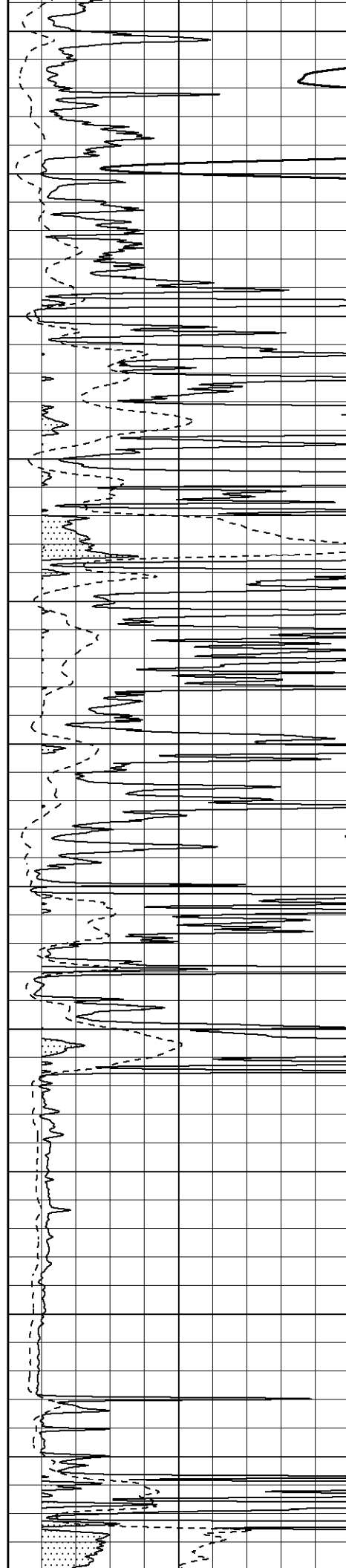


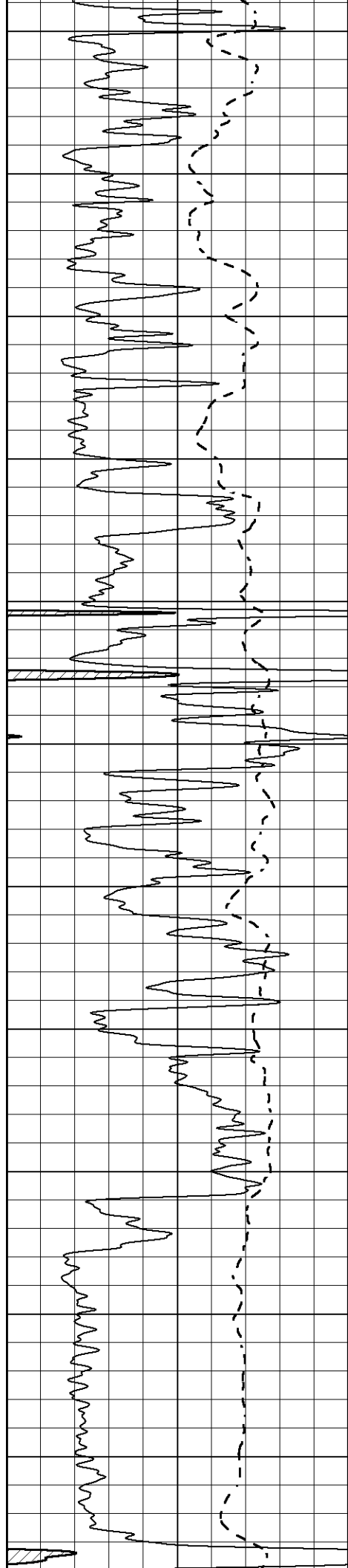
2650  
2700  
2750  
2800  
2850  
2900  
2950  
3000  
3050  
3100  
3150



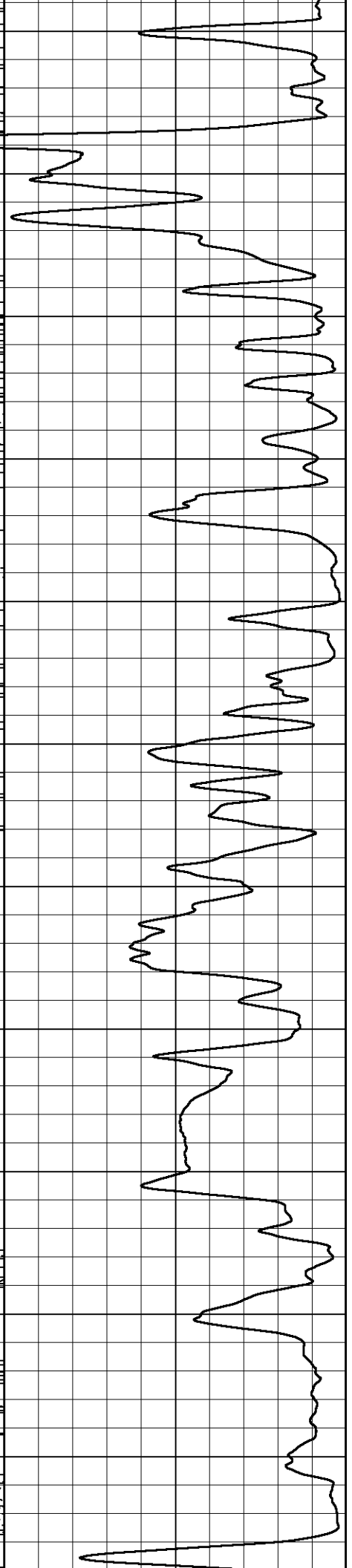
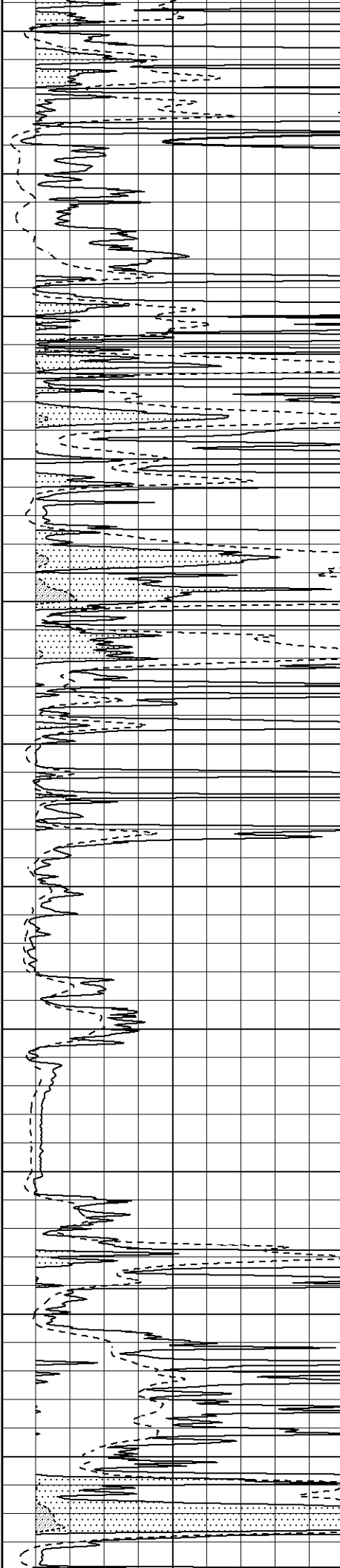


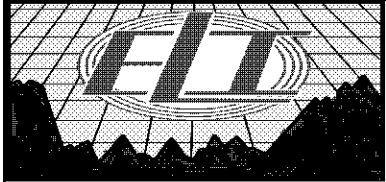
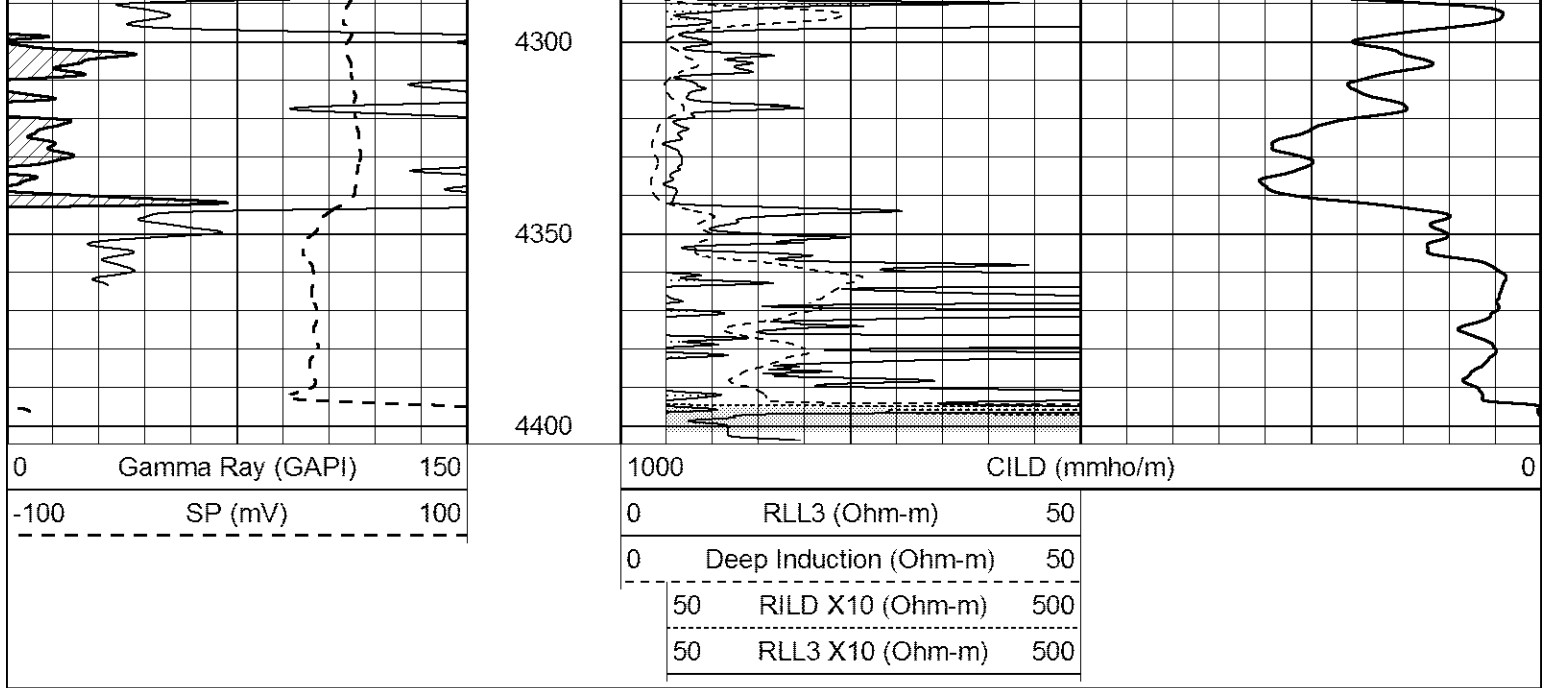
3200  
3250  
3300  
3350  
3400  
3450  
3500  
3550  
3600  
3650  
3700





3750  
3800  
3850  
3900  
3950  
4000  
4050  
4100  
4150  
4200  
4250



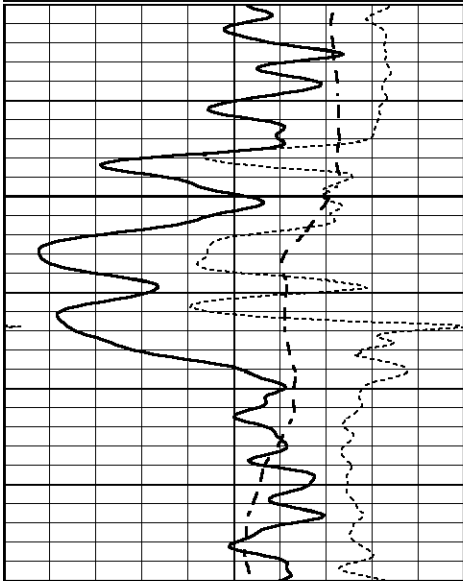


# ANHYDRITE

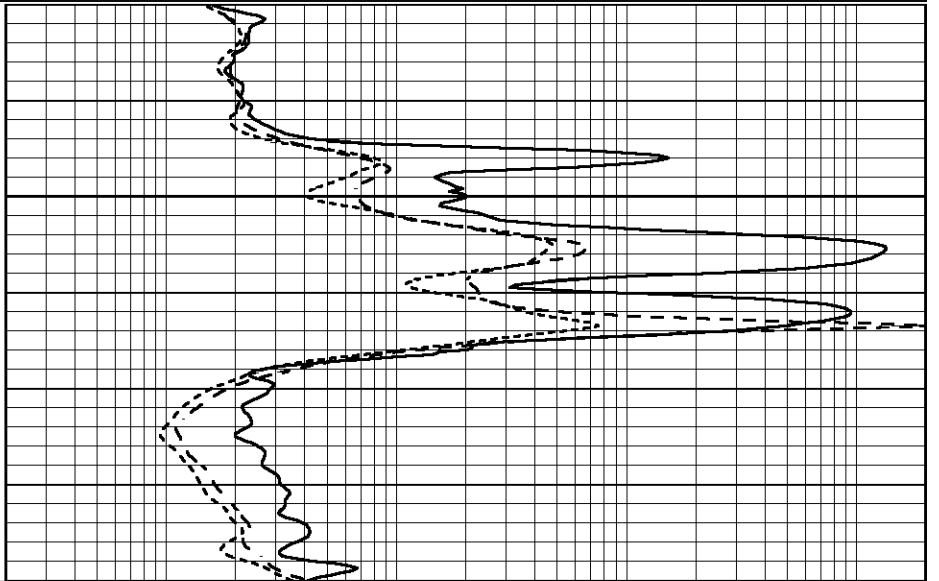
Database File 6751pe.db  
 Dataset Pathname pass4.1A  
 Presentation Format \_dil  
 Dataset Creation Fri Jul 01 15:57:07 2022  
 Charted by Depth in Feet scaled 1:240

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



800

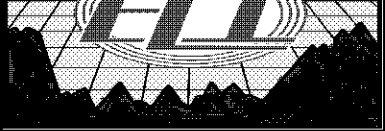


0	GAMMA RAY (GAPI)	150
-100	SP (mV)	100
-250	Rxo/Rt	50

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



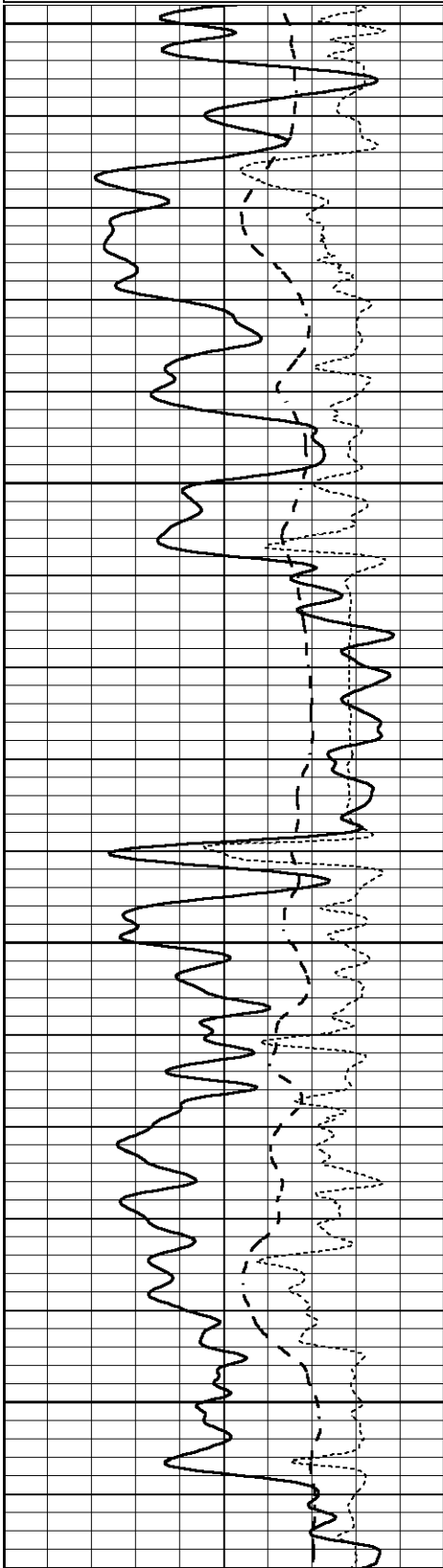
# MAIN SECTION



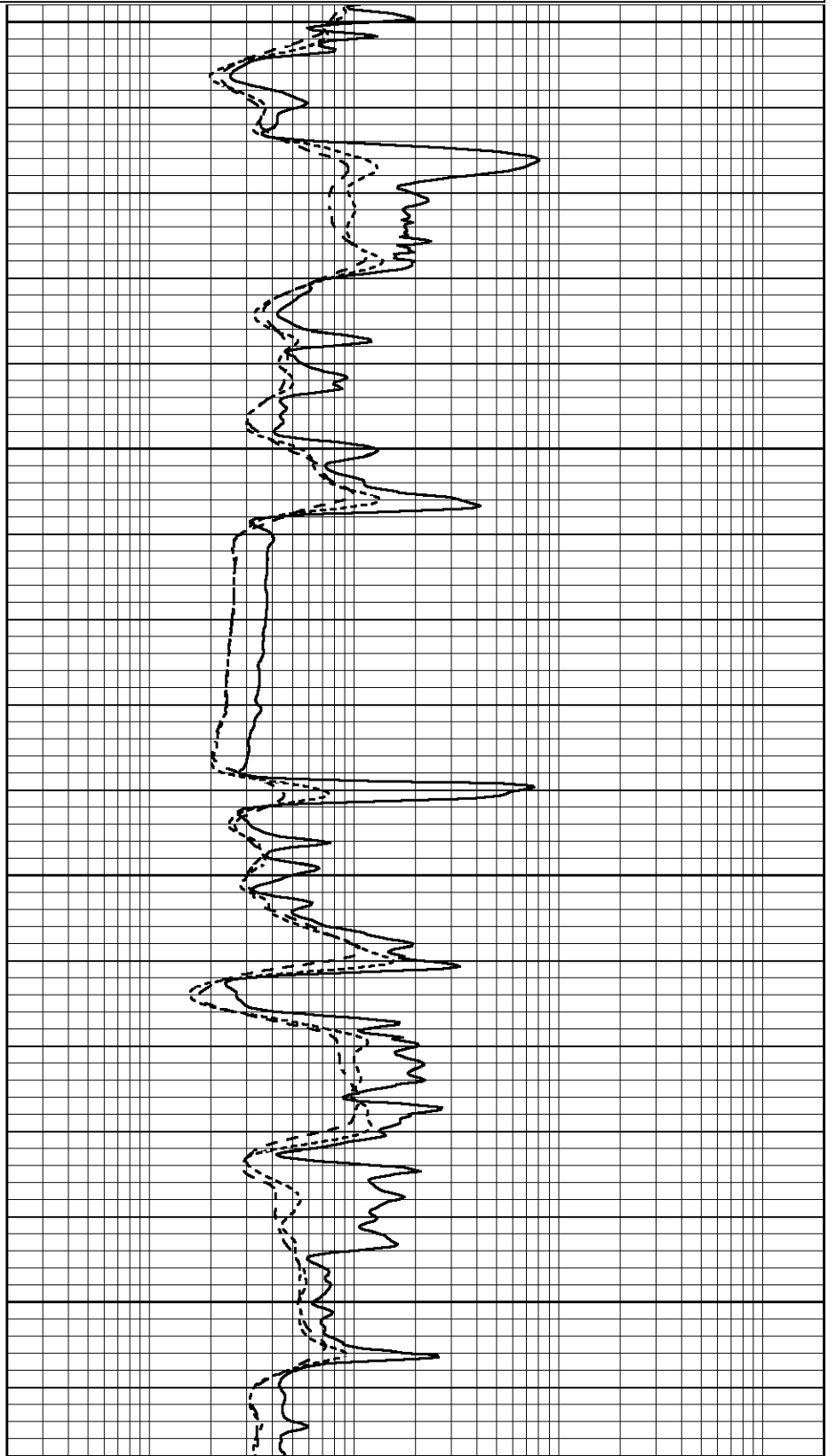
Database File 6751pe.db  
Dataset Pathname pass4.5  
Presentation Format \_dil  
Dataset Creation Fri Jul 01 16:06:59 2022  
Charted by Depth in Feet scaled 1:240

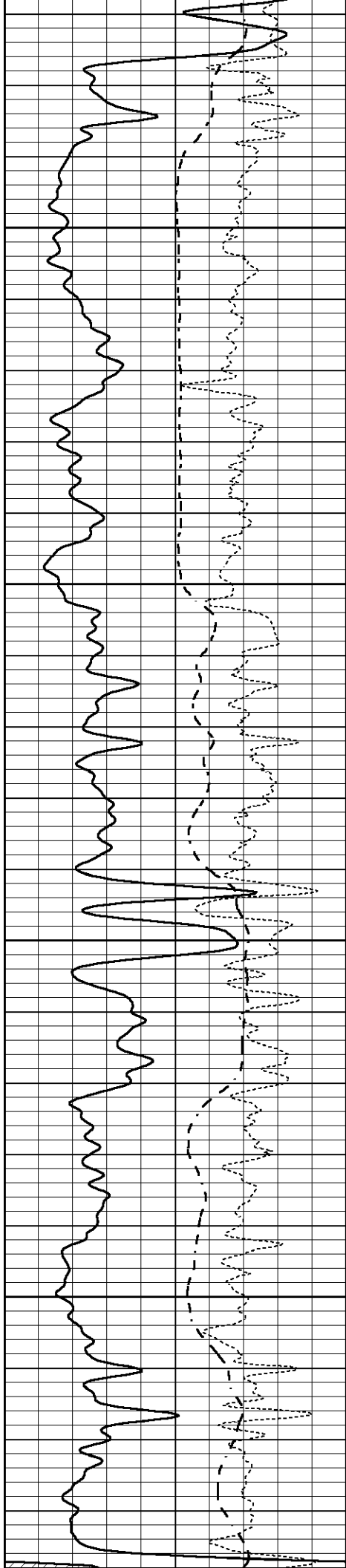
0	GAMMA RAY (GAPI)	150
-100	SP (mV)	100
-250	Rxo/Rt	50

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



3000  
3050  
3100  
3150



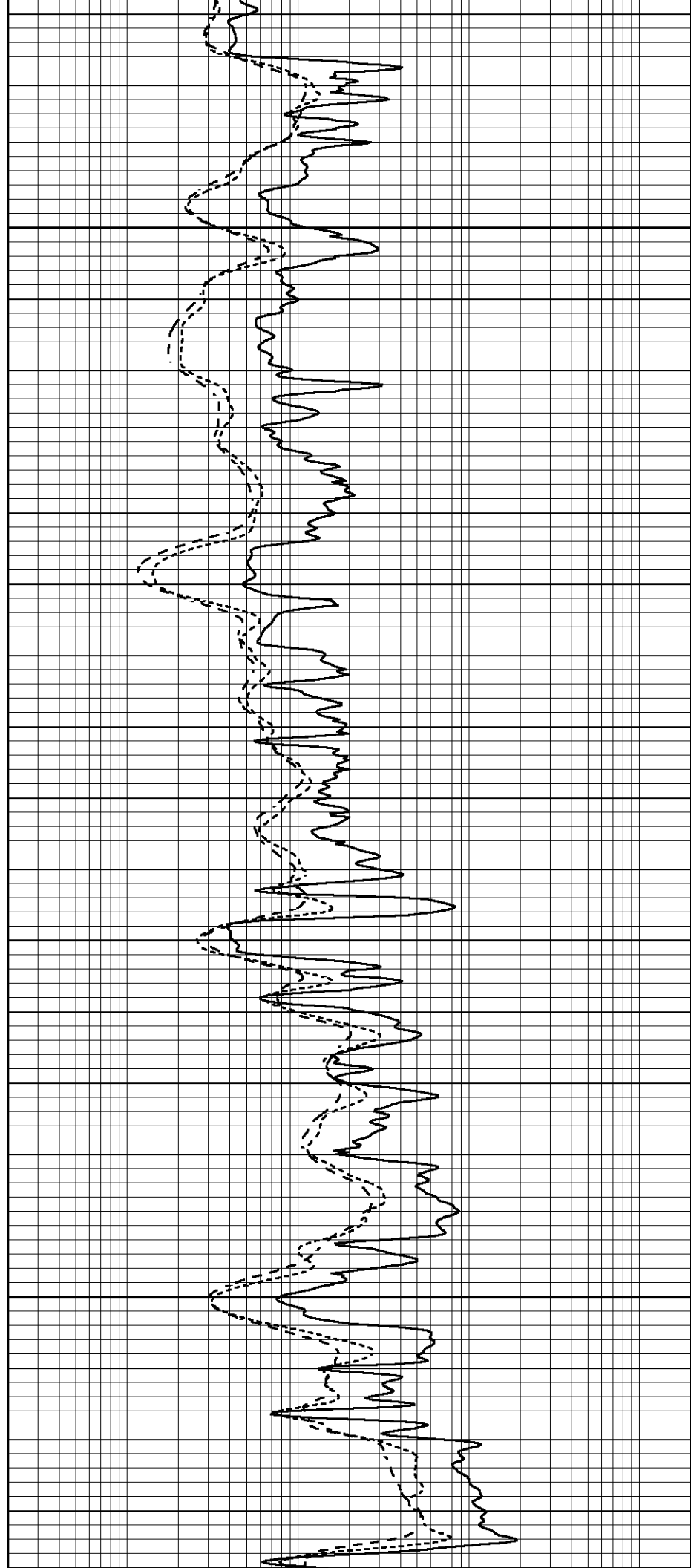


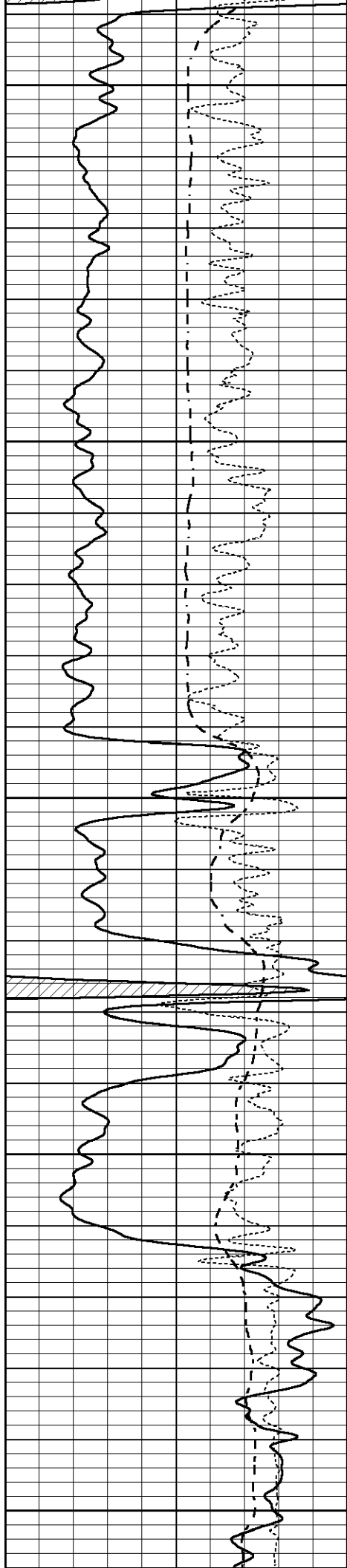
3200

3250

3300

3350





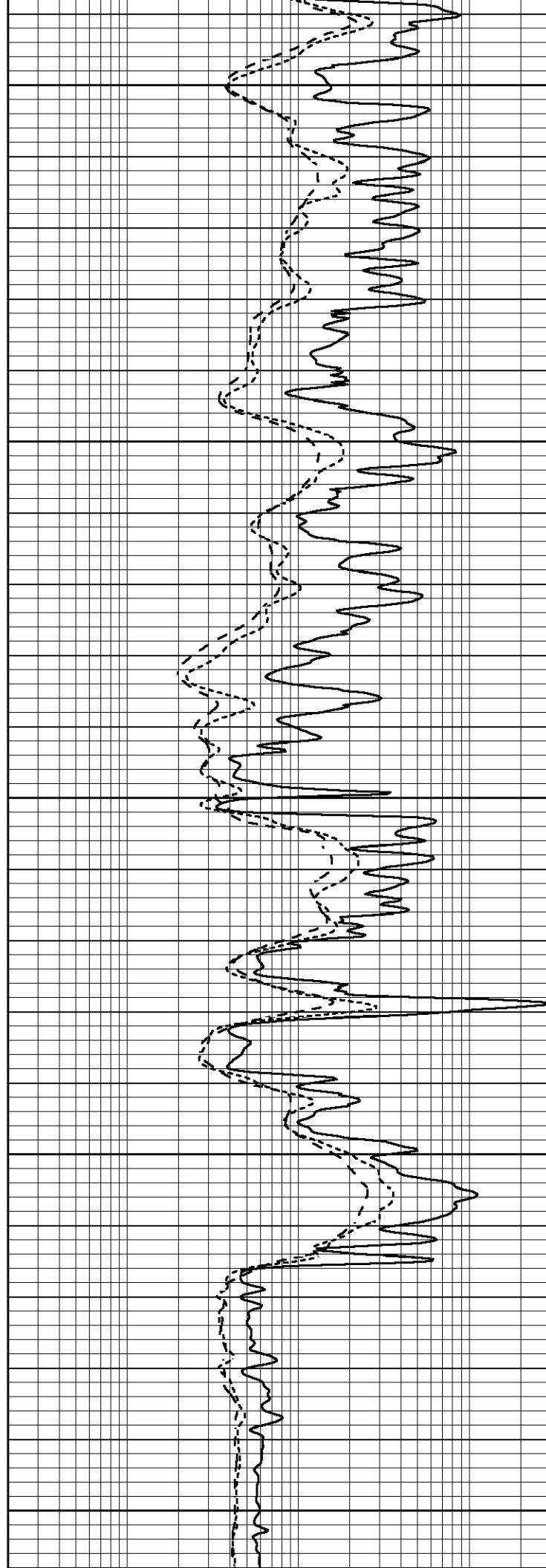
3400

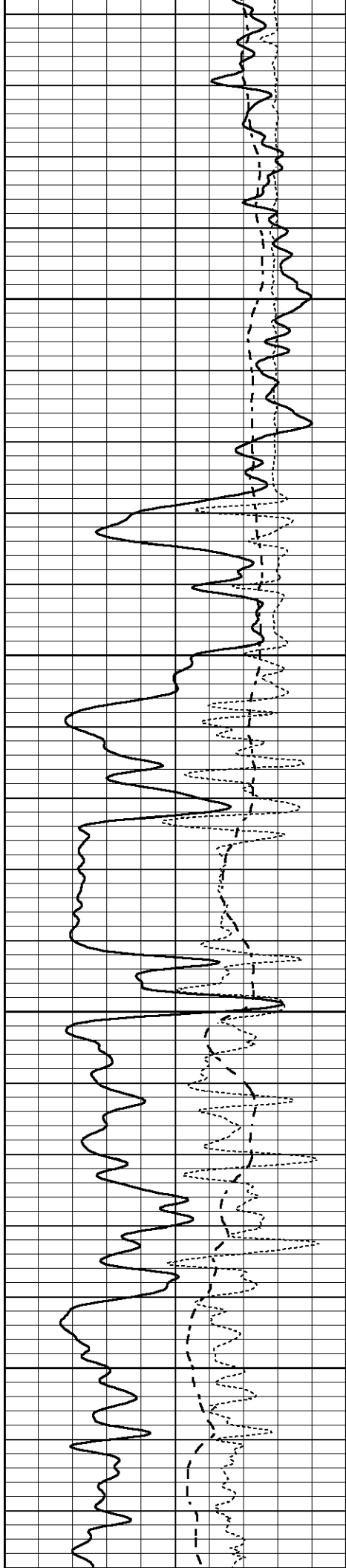
3450

3500

3550

3600



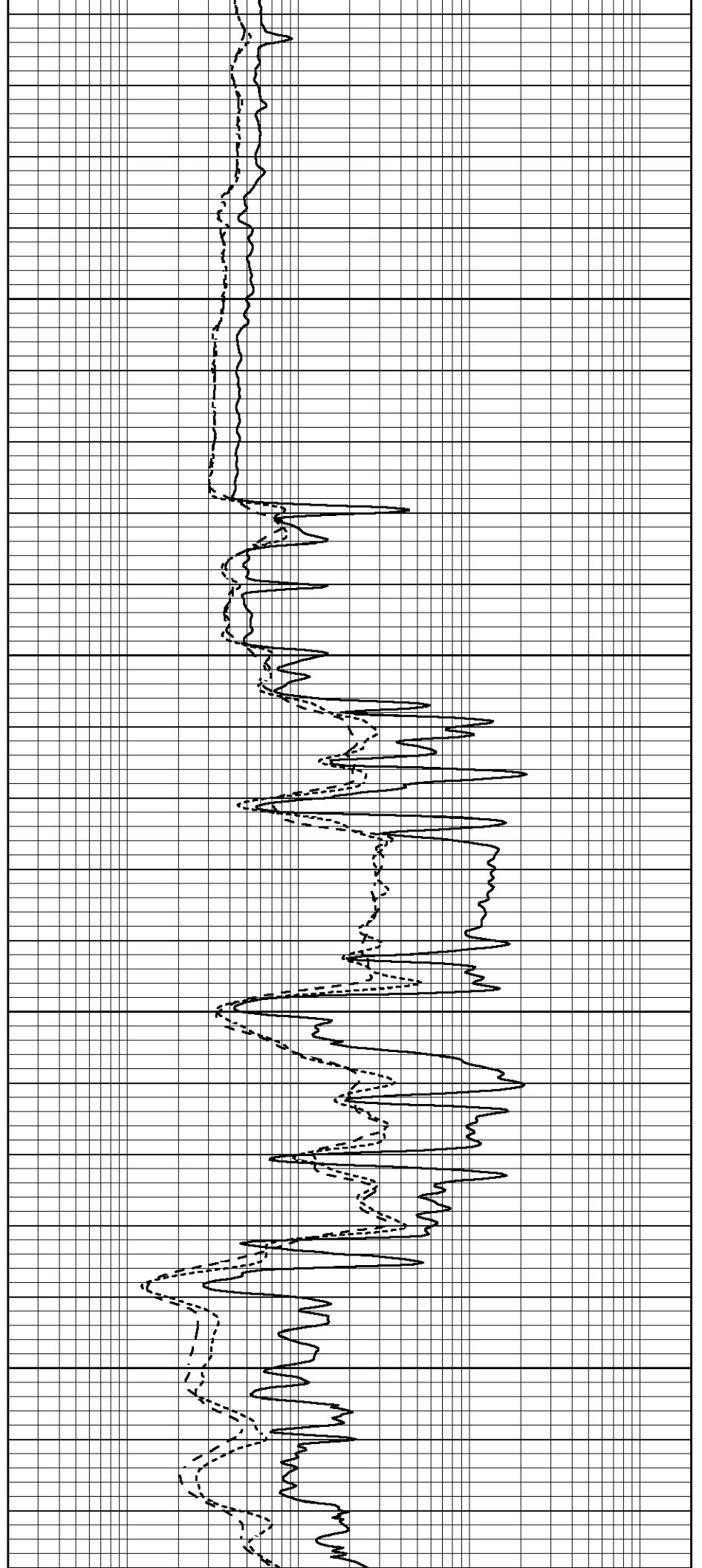


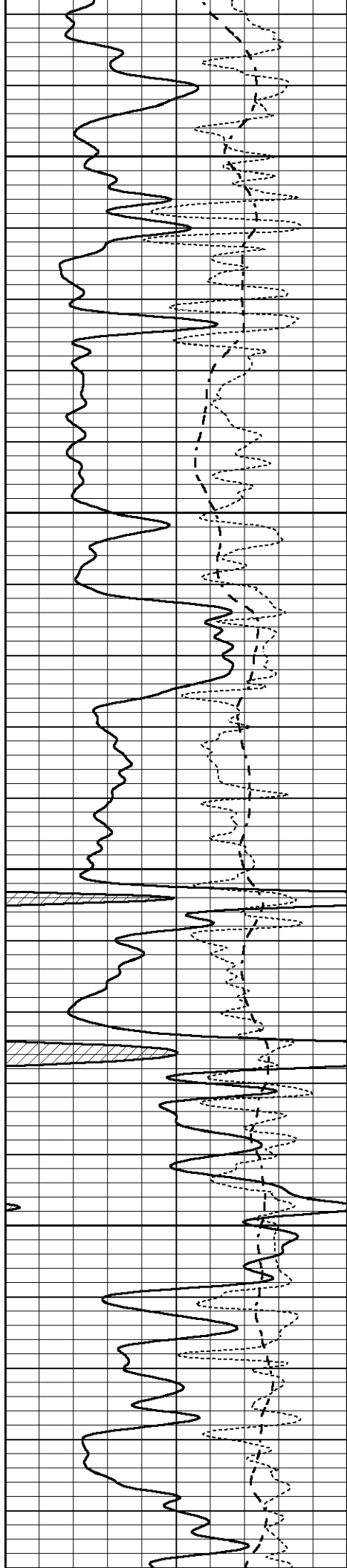
3650

3700

3750

3800



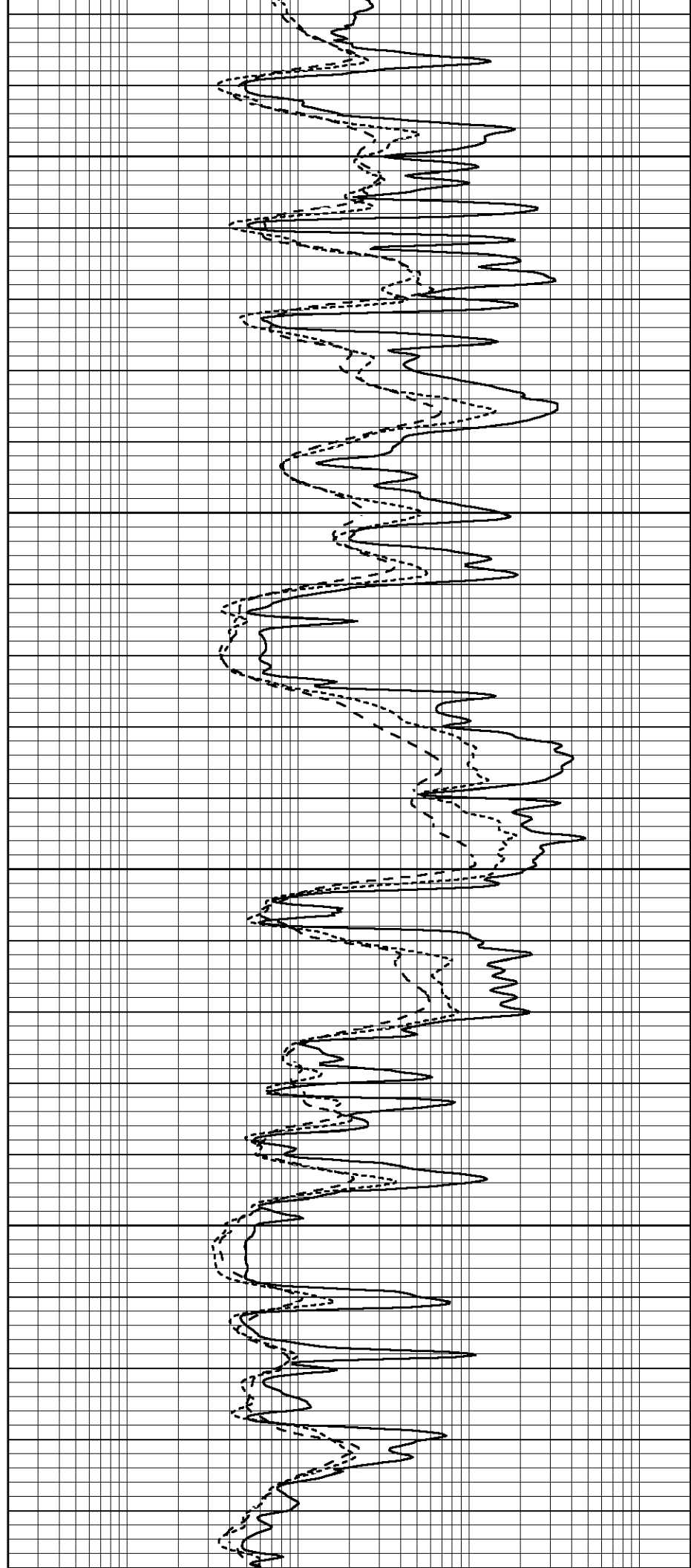


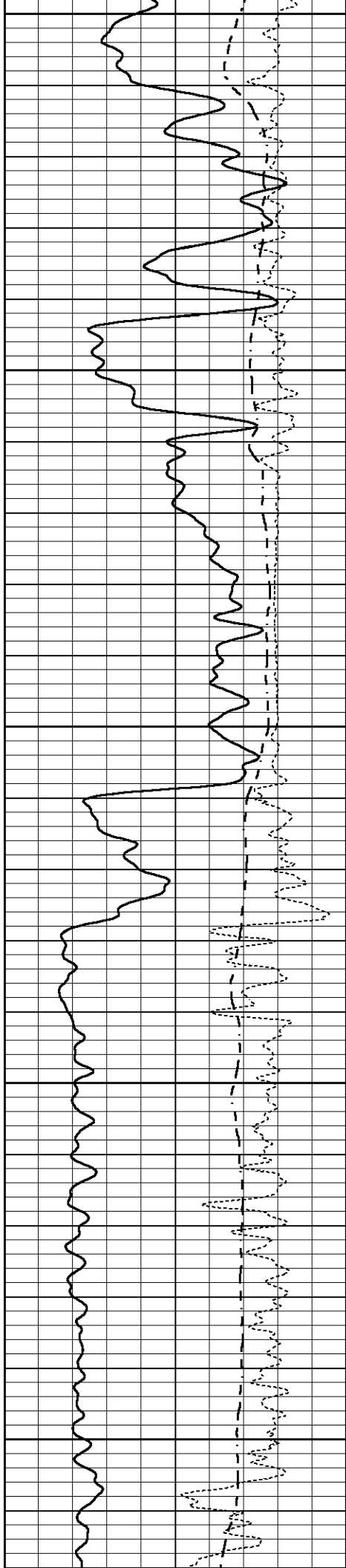
3850

3900

3950

4000





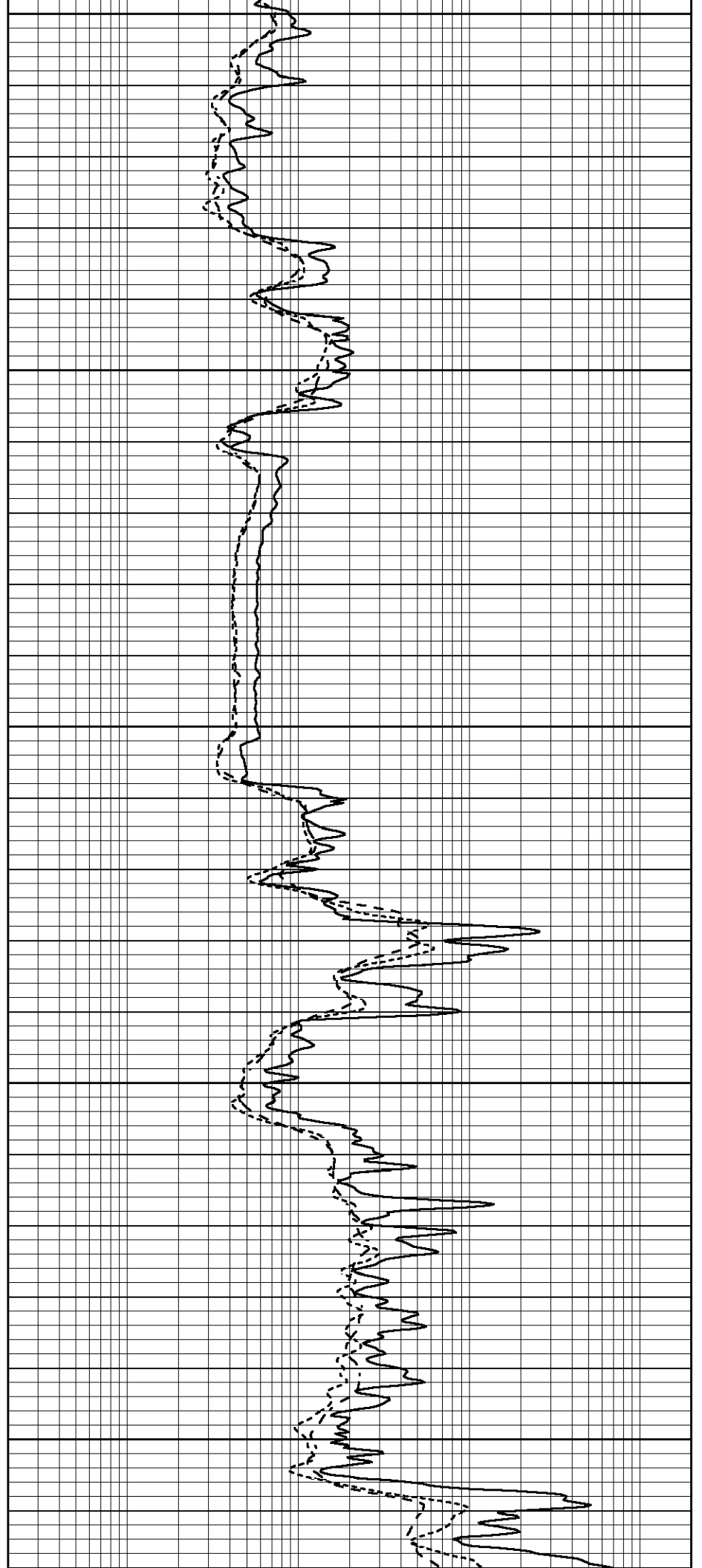
4050

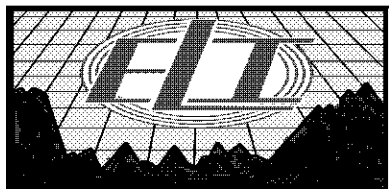
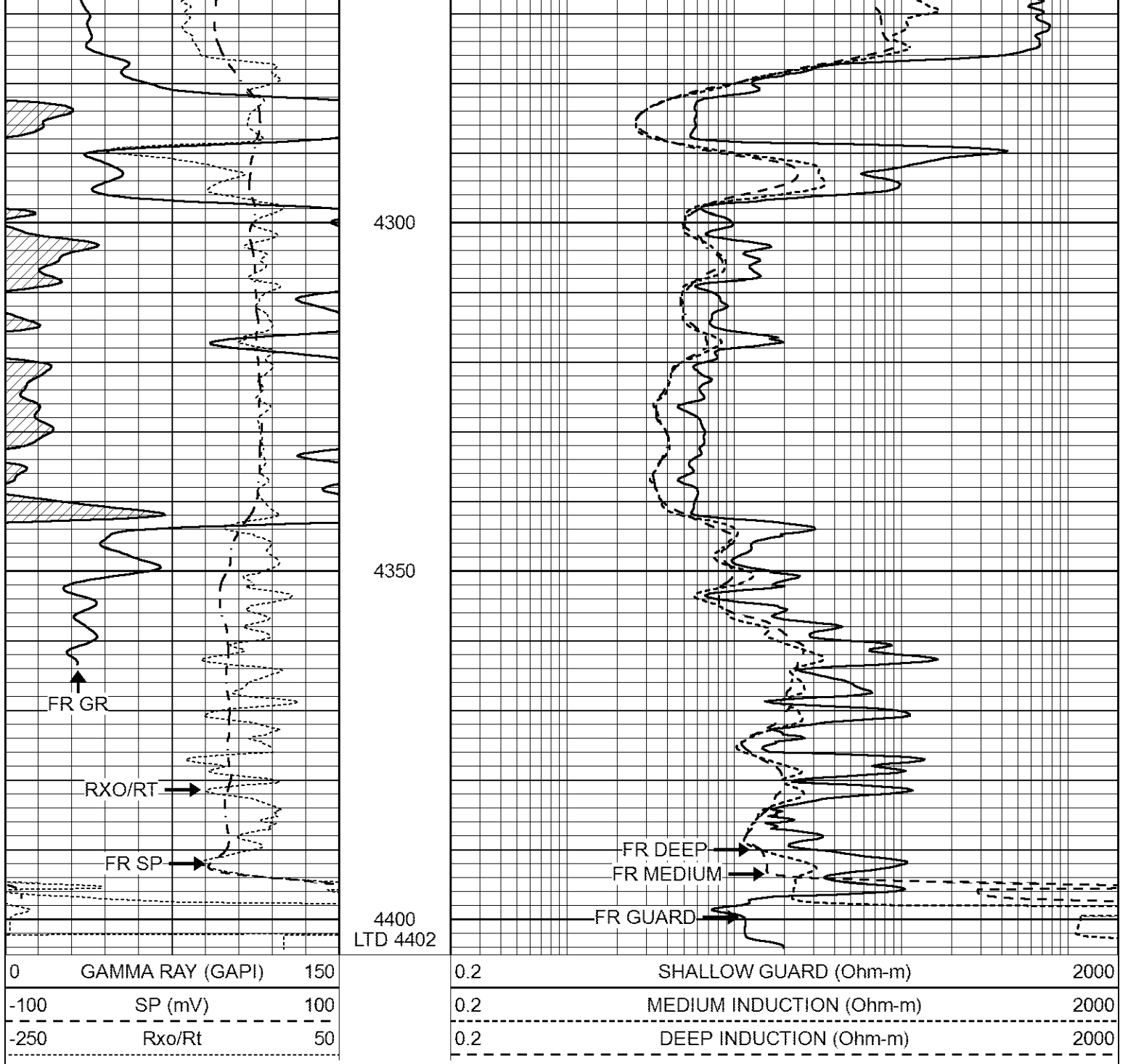
4100

4150

4200

4250

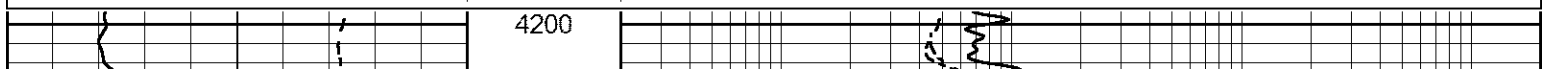


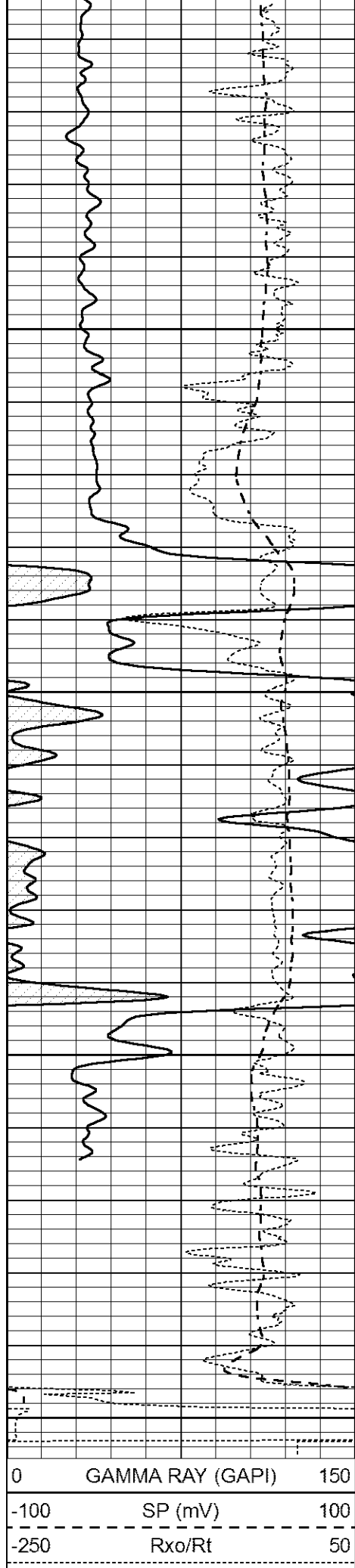


# REPEAT SECTION

Database File 6751pe.db  
 Dataset Pathname pass3.4  
 Presentation Format \_dil  
 Dataset Creation Fri Jul 01 16:30:22 2022  
 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



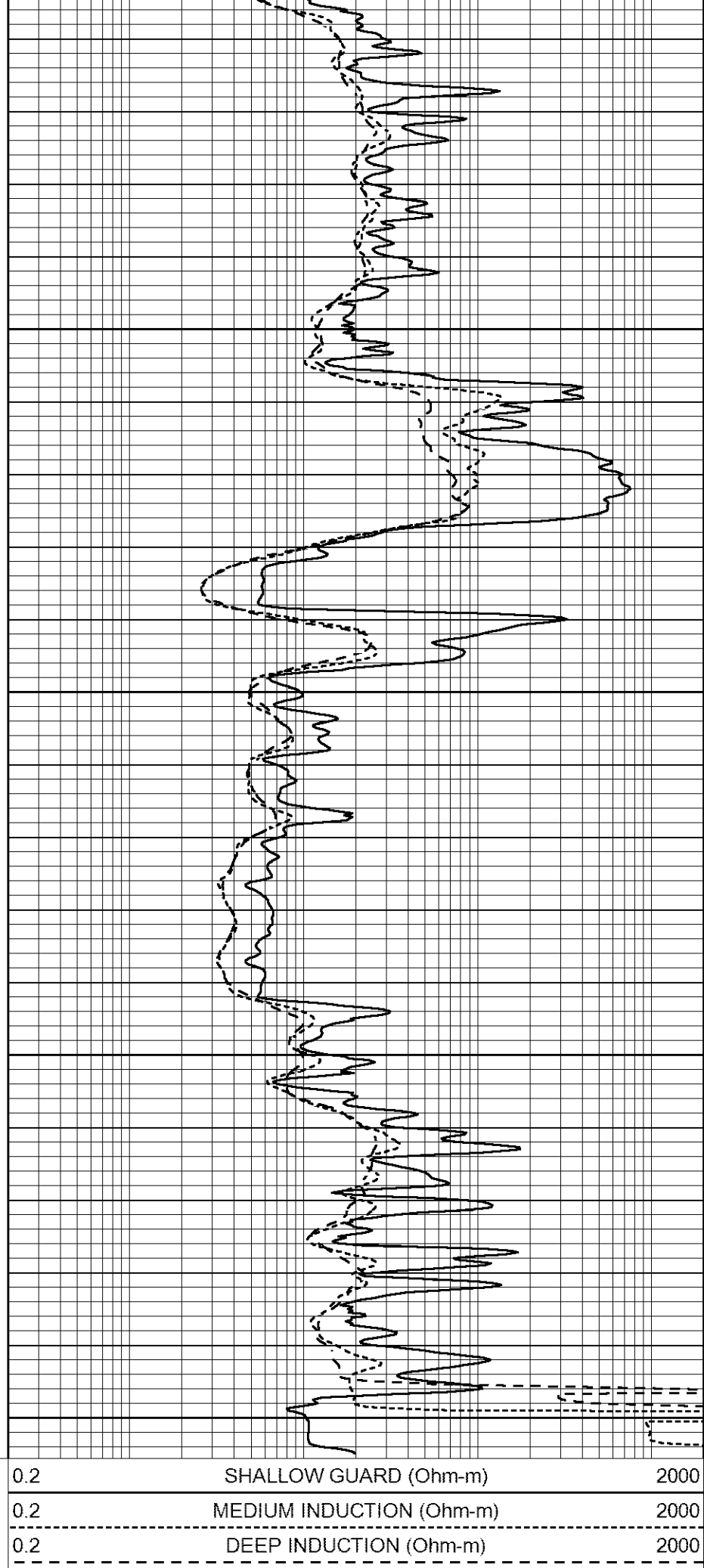


4250

4300

4350

4400



Calibration Report

Database File 6751pe.db  
 Dataset Pathname pass4.5  
 Dataset Creation Fri Jul 01 16:06:59 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	-12.000
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: Mon May 23 14:22:47 2022

	Background	Aluminum	Magnesium	
Window 1	511.07	5437.36	23664.68	cps
Window 2	40.76	1220.39	5745.34	cps
Window 4	223.73	1233.64	5301.27	cps
Window 5	531.57	7878.13	15405.81	cps
Window 6	48.52	1245.17	2497.97	cps
Window 8	246.02	2578.14	4974.07	cps
Bulk Density	-	2.6020	1.6830	g/cc
Pe	-	3.0000	2.5070	b/e

LS Alpha: : -1.8413  
LS Beta: : 124864.8423

SS Alpha: : -0.8034  
SS Beta: : 19537.1506

LS CPE: : 1.1579  
SS CPE: : 1.6371

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: Mon May 23 14:22:47 2022

Results		Readings		References (in)		Gain	Offset
Low	High	Low	High				
8210.8	12139.3	7.0	14.0	0.0		-7.3	

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