



MDN - MPD - CAL  
MDL - MML - MSS - GR  
1:500

COMPANY ORIGIN ENERGY RESOURCES LIMITED

WELL CHILDERS COVE 1

FIELD ONSHORE OTWAY BASIN

PROVINCE/COUNTY VICTORIA

COUNTRY/STATE AUSTRALIA

LOCATION 38DEG29'31.96"S 142DEG44'46.66"E **FIELD PRINT**

LSD SEC TWP RGE Other Services

API Number

Permit Number PEP 154

Permanent Datum GROUND LEVEL, Elevation 50 metres

Log Measured From R. T. @ 5.3 METRE above Permanent Datum

Drilling Measured From R. T.

Elevations:  
KB 51.50 metres  
DF 51.50 metres  
GL 46.20 metres

Date 01-Oct-2005

Run Number ONE

Depth Driller 2545.00 metres

Depth Logger 2529.00 metres

First Reading 2528.15 metres

Last Reading 0.00 metres

Casing Driller 544.50 metres

Casing Logger 544.20 metres

Bit Size 8.50 inches

Hole Fluid Type KCL/HPA/POL

Density / Viscosity 1.15 g/c3 59.00 CP

PH / Fluid Loss 8.60 4.00 ml/30Min

Sample Source FLOWLINE

Rm @ Measured Temp 0.65 @ 13.9 ohm-m

Rmf @ Measured Temp 1.06 @ 13.9 ohm-m

Rmc @ Measured Temp 0.53 @ 14.1 ohm-m

Source Rmf / Rmc FILTER PRESS

Rm @ BHT 0.09 @ 95.5 ohm-m

Time Since Circulation 18 HOURS

Max Recorded Temp 95.50 deg C

Equipment Name COMPACT

Equipment / Base 8 SALE

Recorded By B.MOSS

Witnessed By JOHN HOBDAV

CIRC. STOP 00:00 1/10

### BOREHOLE RECORD

Bit Size inches	Depth From metres	Depth To metres
8.500	544.50	2545.00

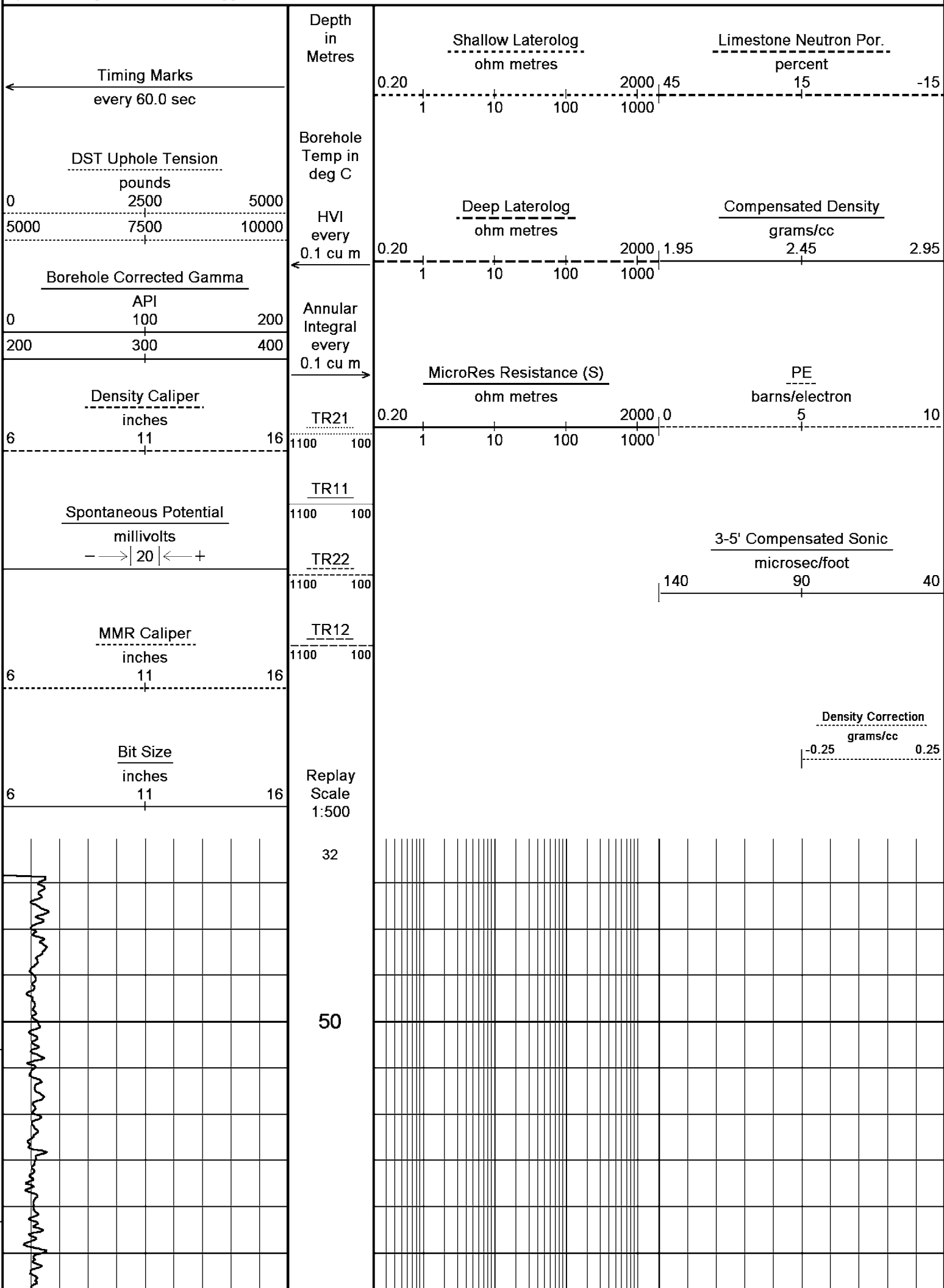
### CASING RECORD

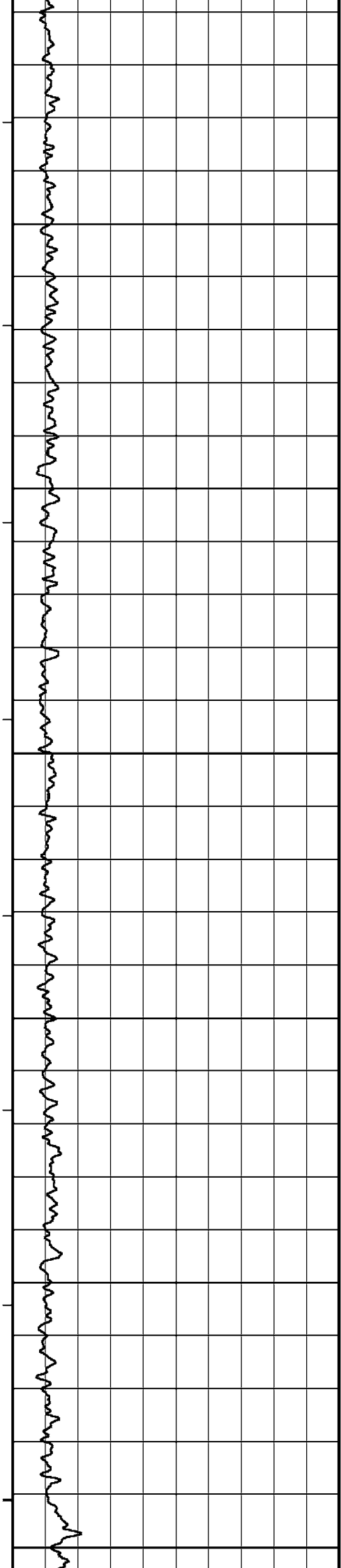
Type	Size inches	Depth From metres	Shoe Depth metres	Weight pounds/ft
K-55	9.625	0.00	544.50	36.00

### REMARKS

- 1) SOFTWARE ISSUE: JUN 17, 2004.
- 2) CUSTOMER SCALES AND INTERVALS LOGGED.
- 3) HFS, MMR, MLE, MUG, MSS, SKJ, MPD,MDN, MCG, MBE RAN IN COMBINATION.
- 4) HARDWARE: MMR: ONE 25.4MM STANDOFF  
MSS: TWO 25.4MM STANDOFF  
MUG: ONE 25.4MM STANDOFF  
MBE: ONE 25.4MM STANDOFF
- 5) SERVICE ORDER: 2070
- 6) RIG:CENTURY 7 PRINTS: 1 FIELD 3 FINALS
- 7) TOTAL HOLE VOLUME FROM TD TO SURFACE CASING = 75.2 CU.M.
- 8) TOTAL ANNULAR VOLUME WITH 7 INCH CASING = 26.5 CU.M.
- 9) SONIC CASING SIGNAL AT 500.5 M.

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 interpretations, and we shall not, except in the case of gross or wilful 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 in our price schedule.

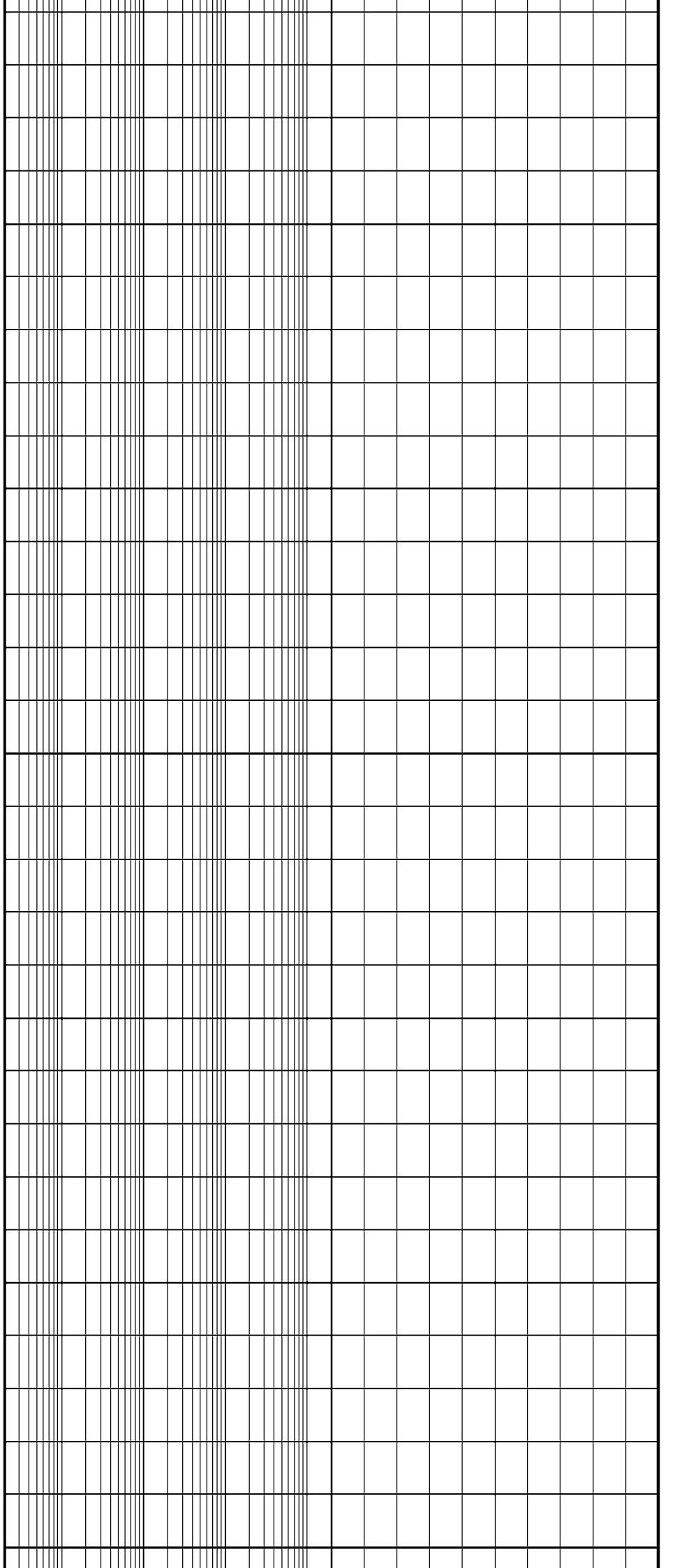


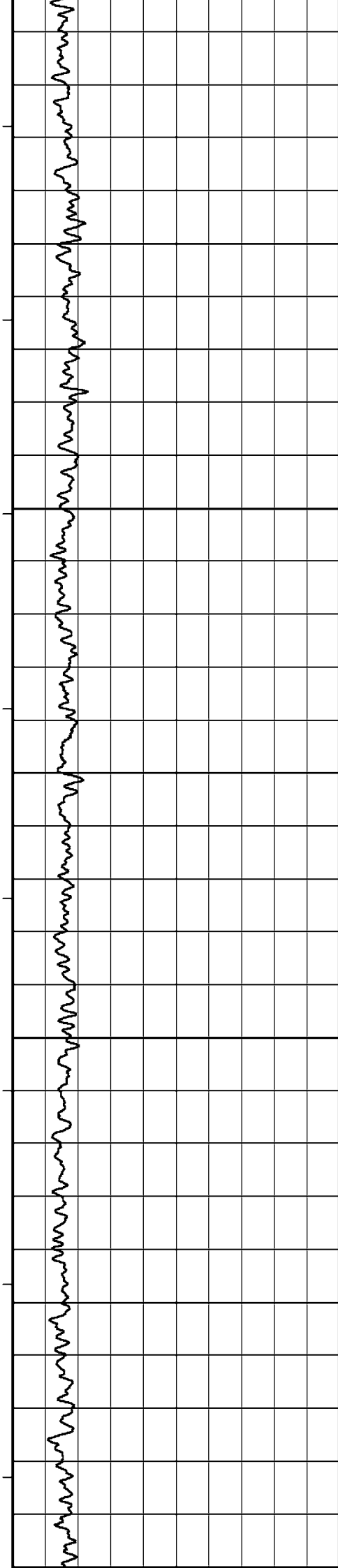


100

150

200

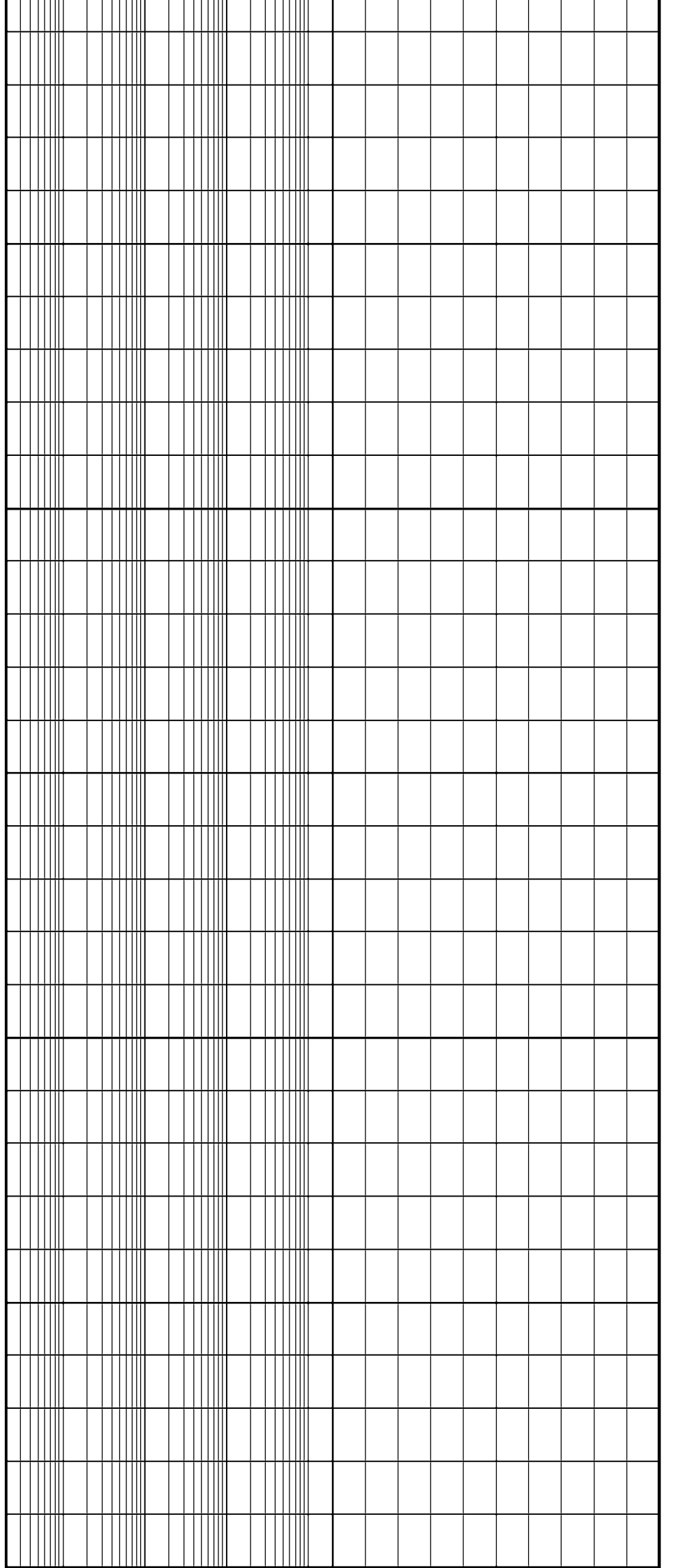


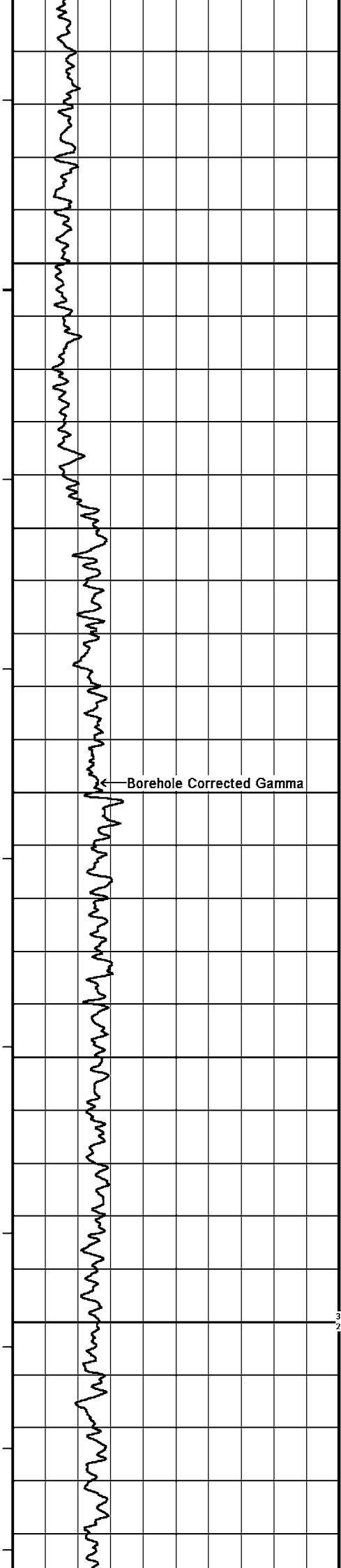


250

300

350



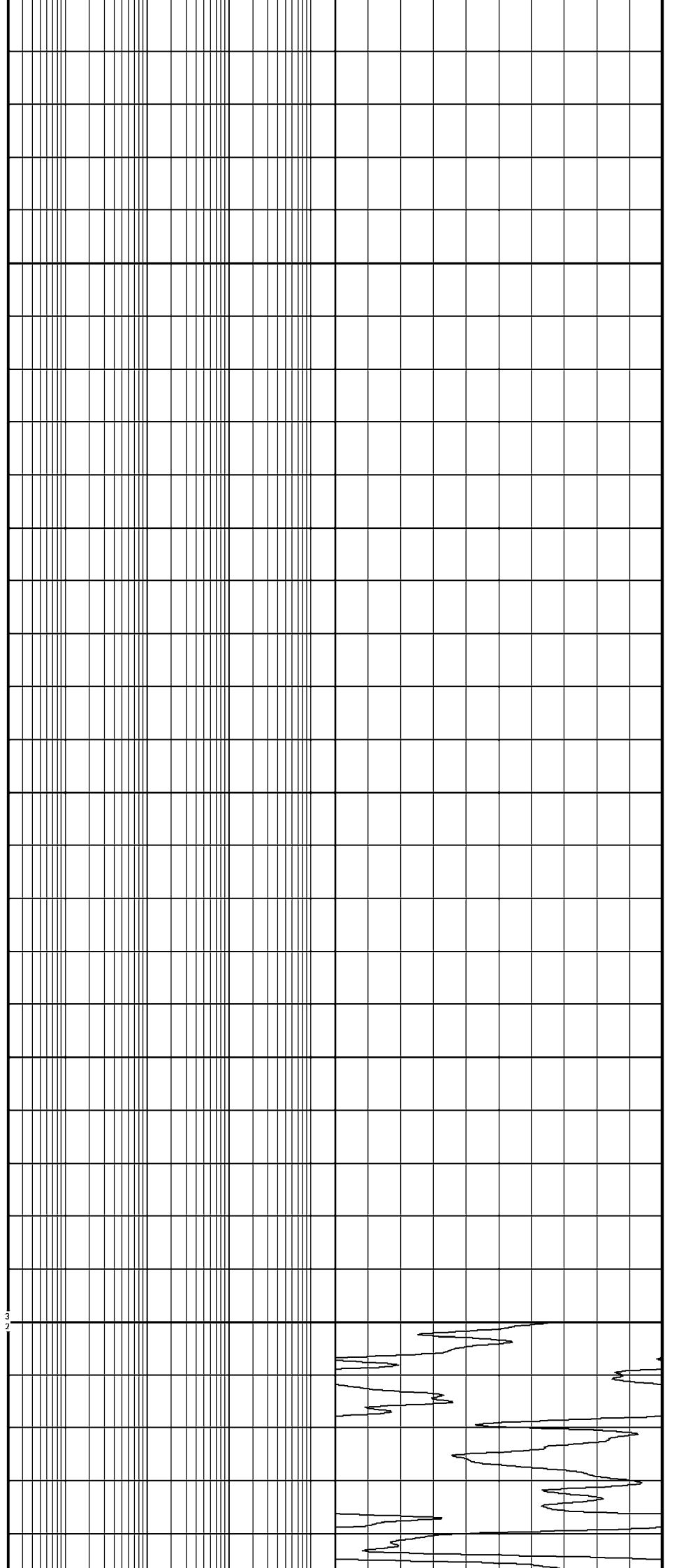
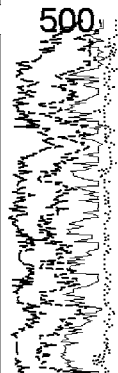


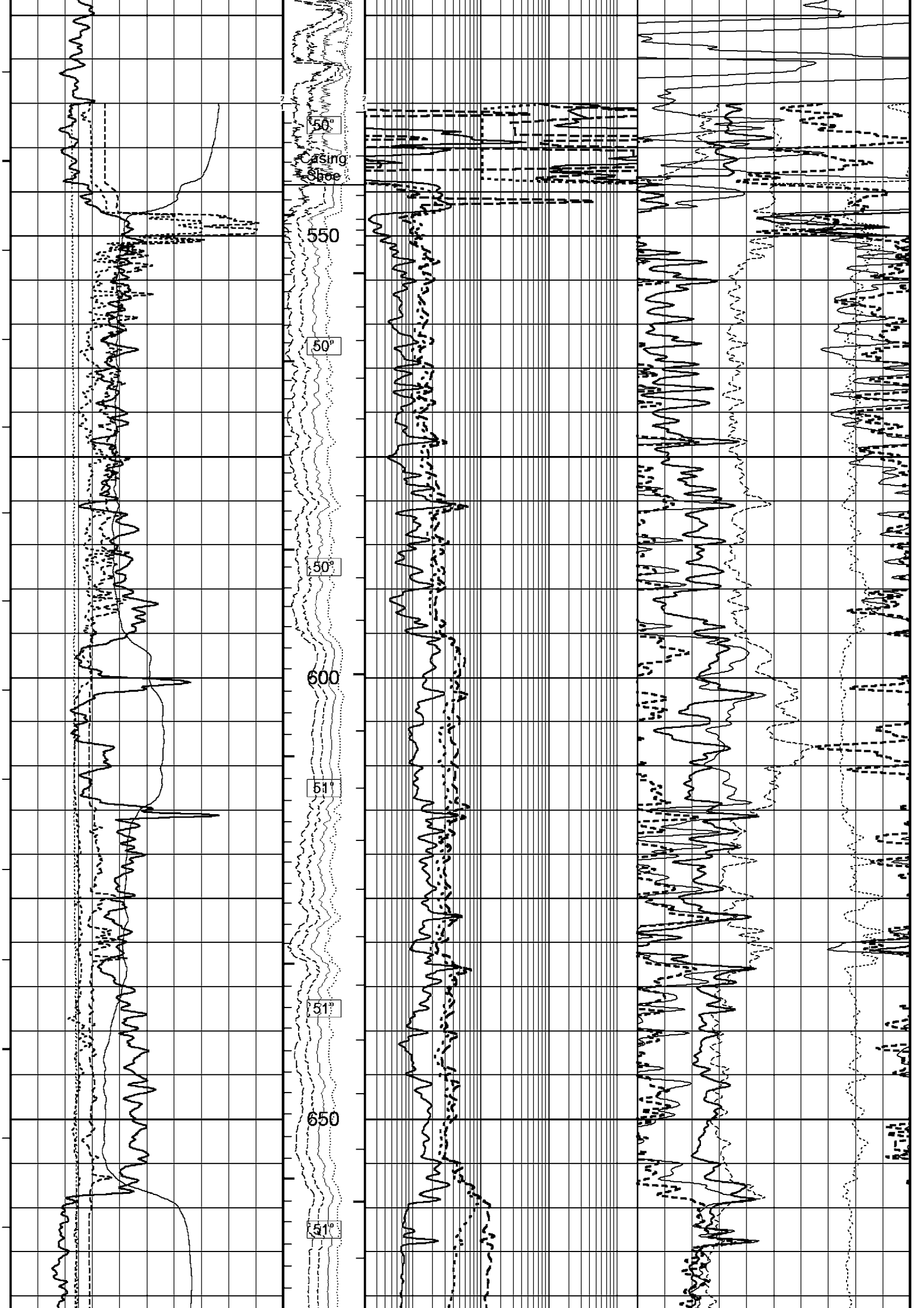
Borehole Corrected Gamma

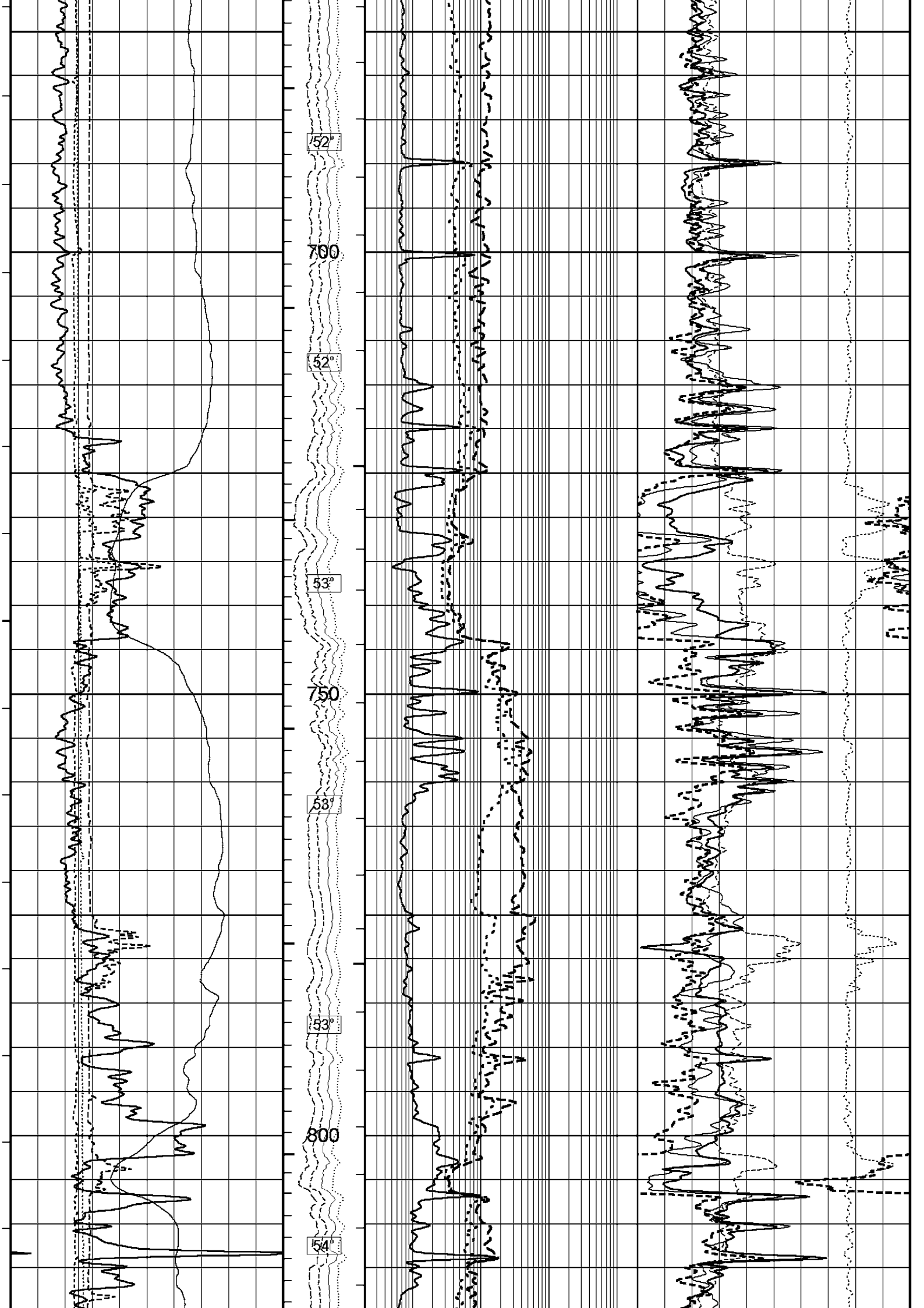
400

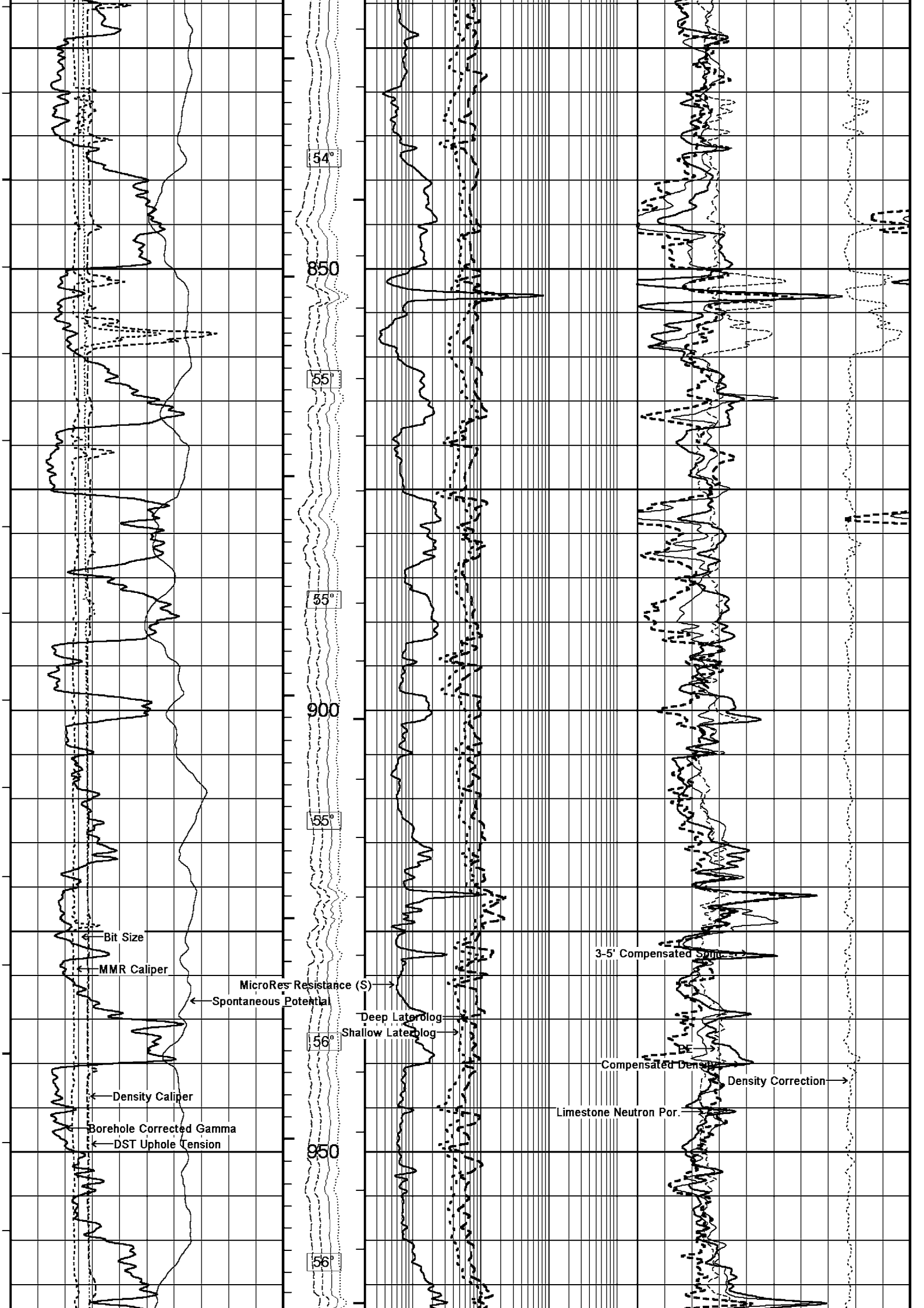
450

500

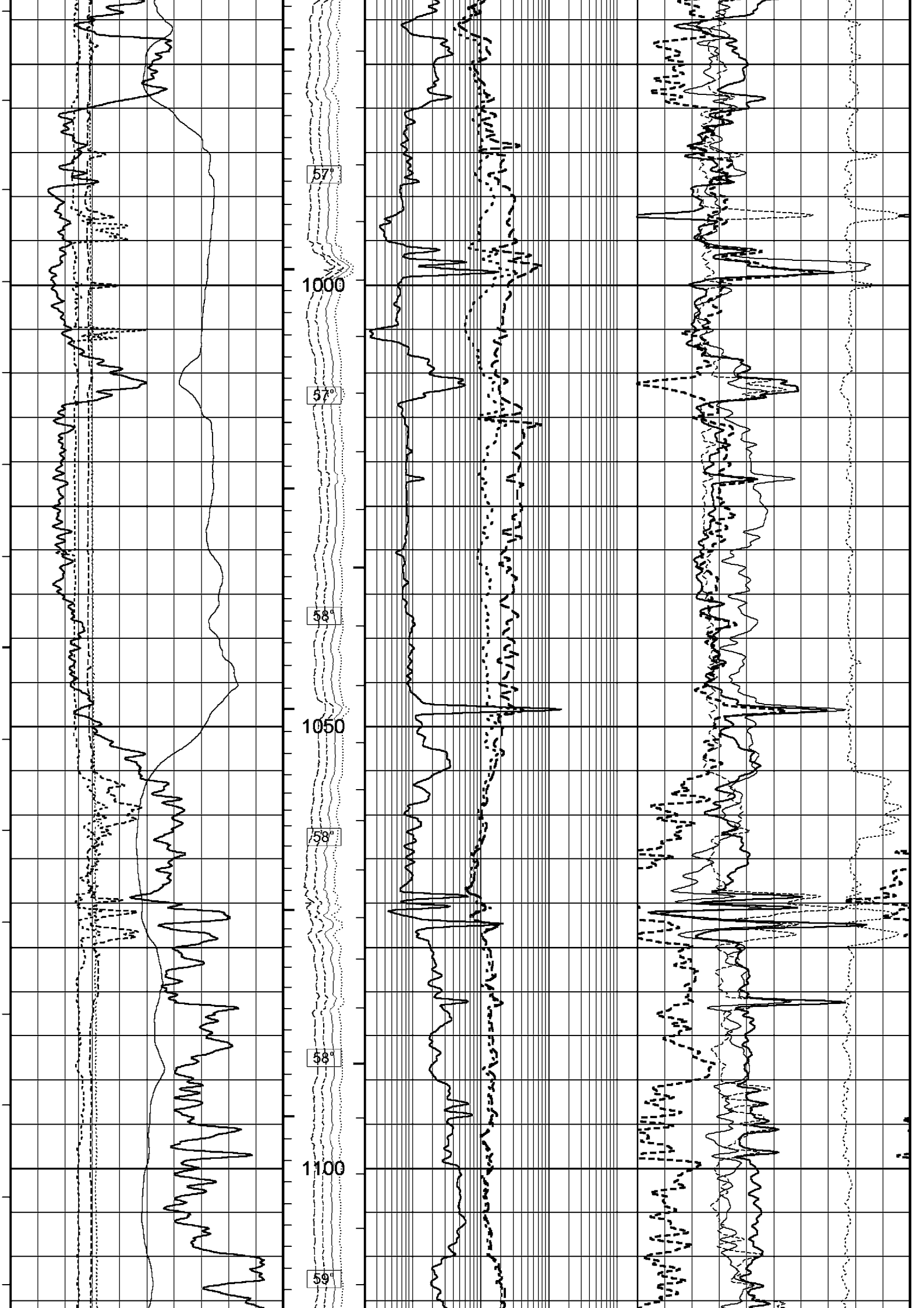


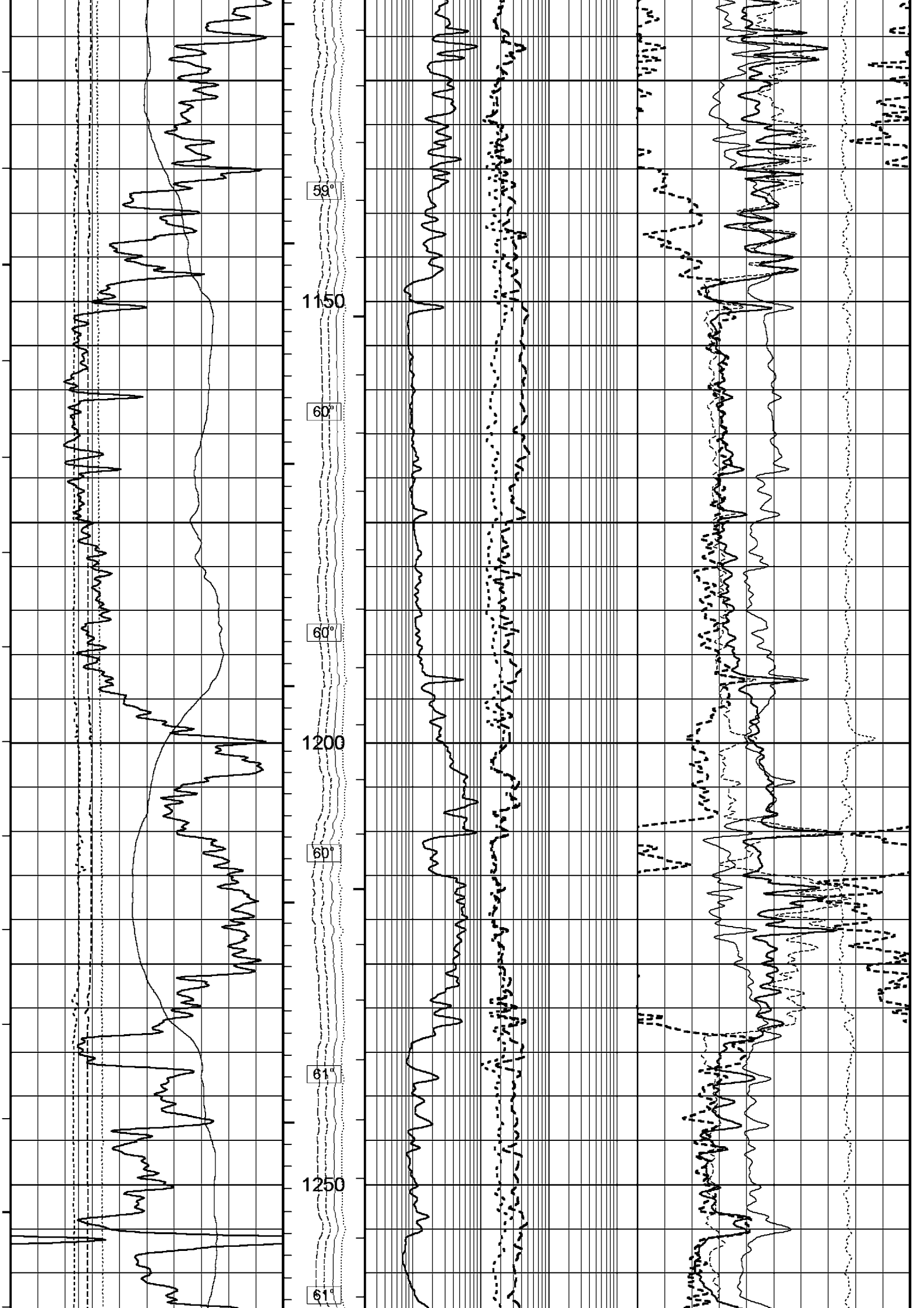


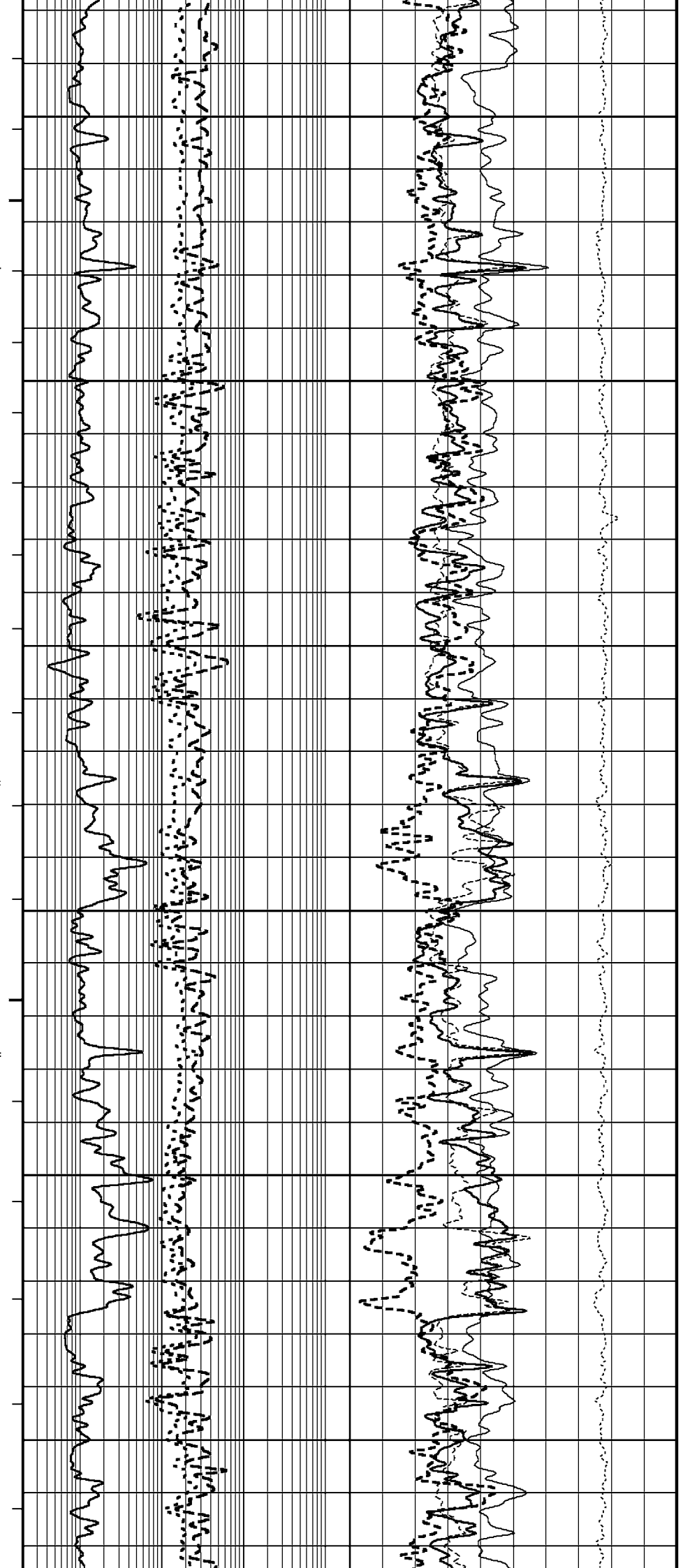
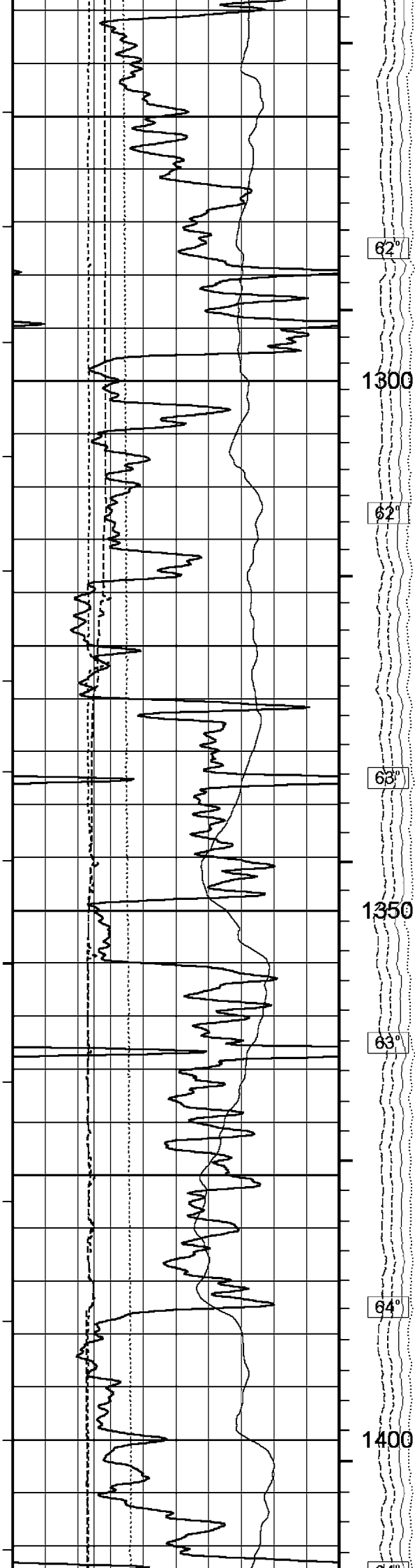


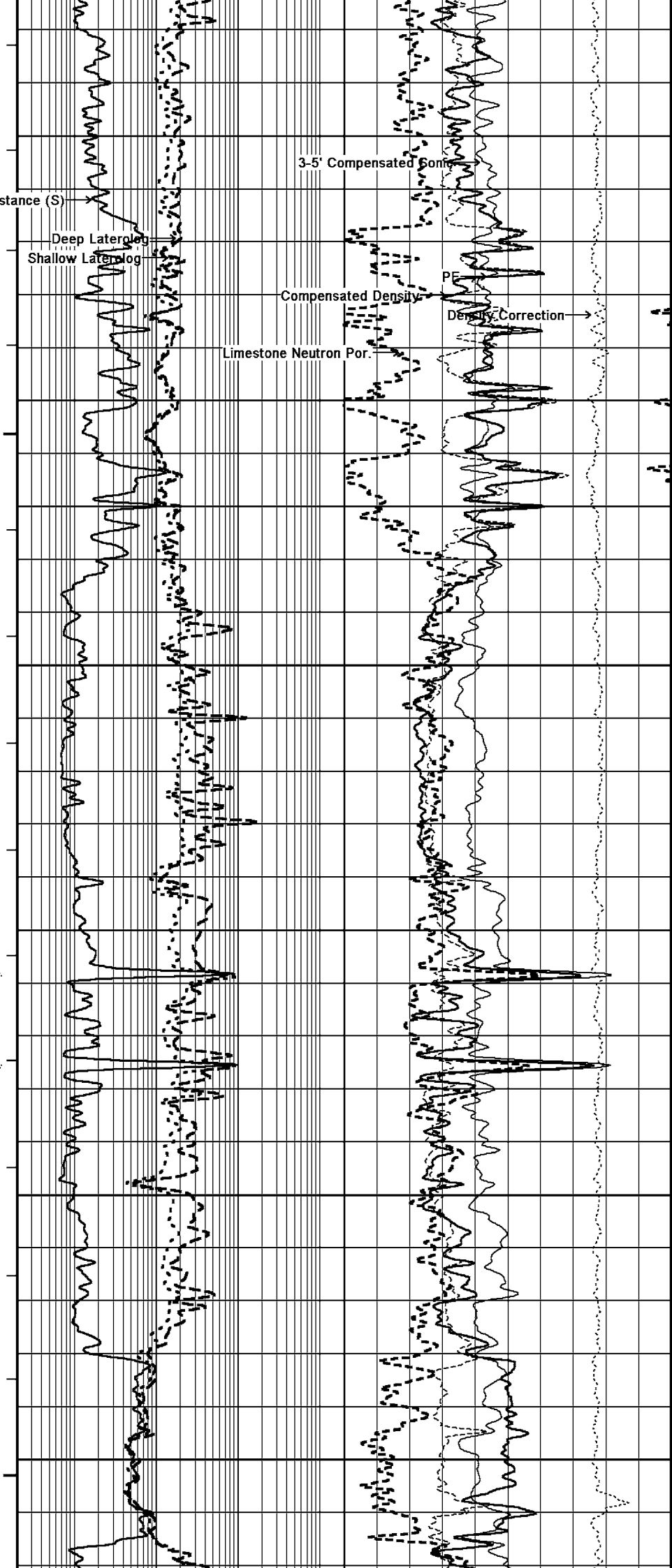
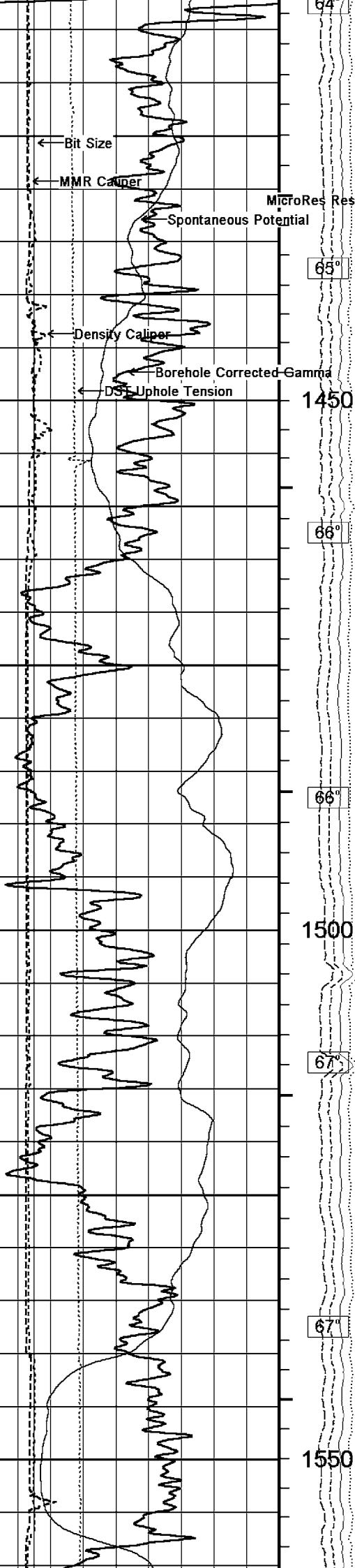


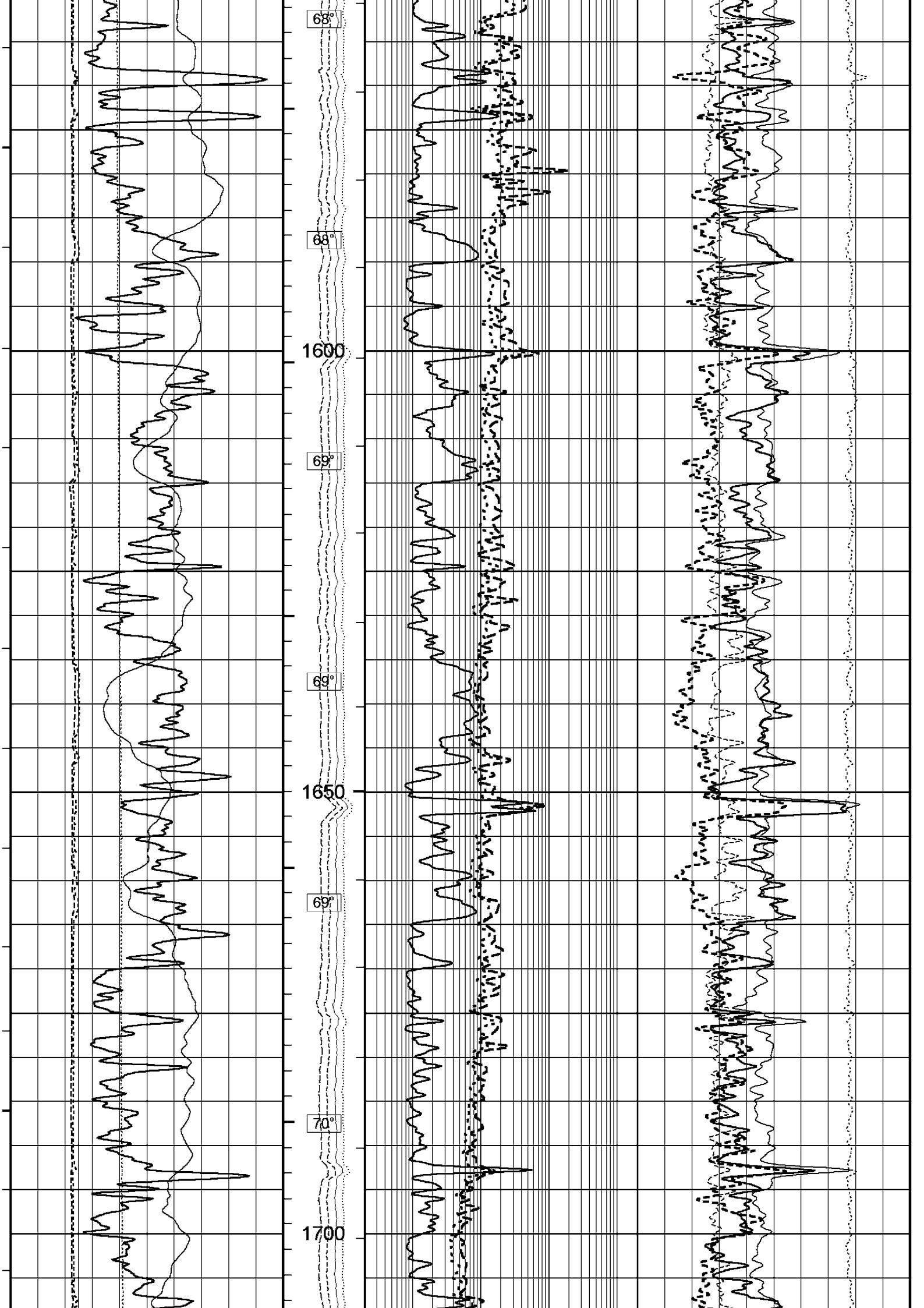


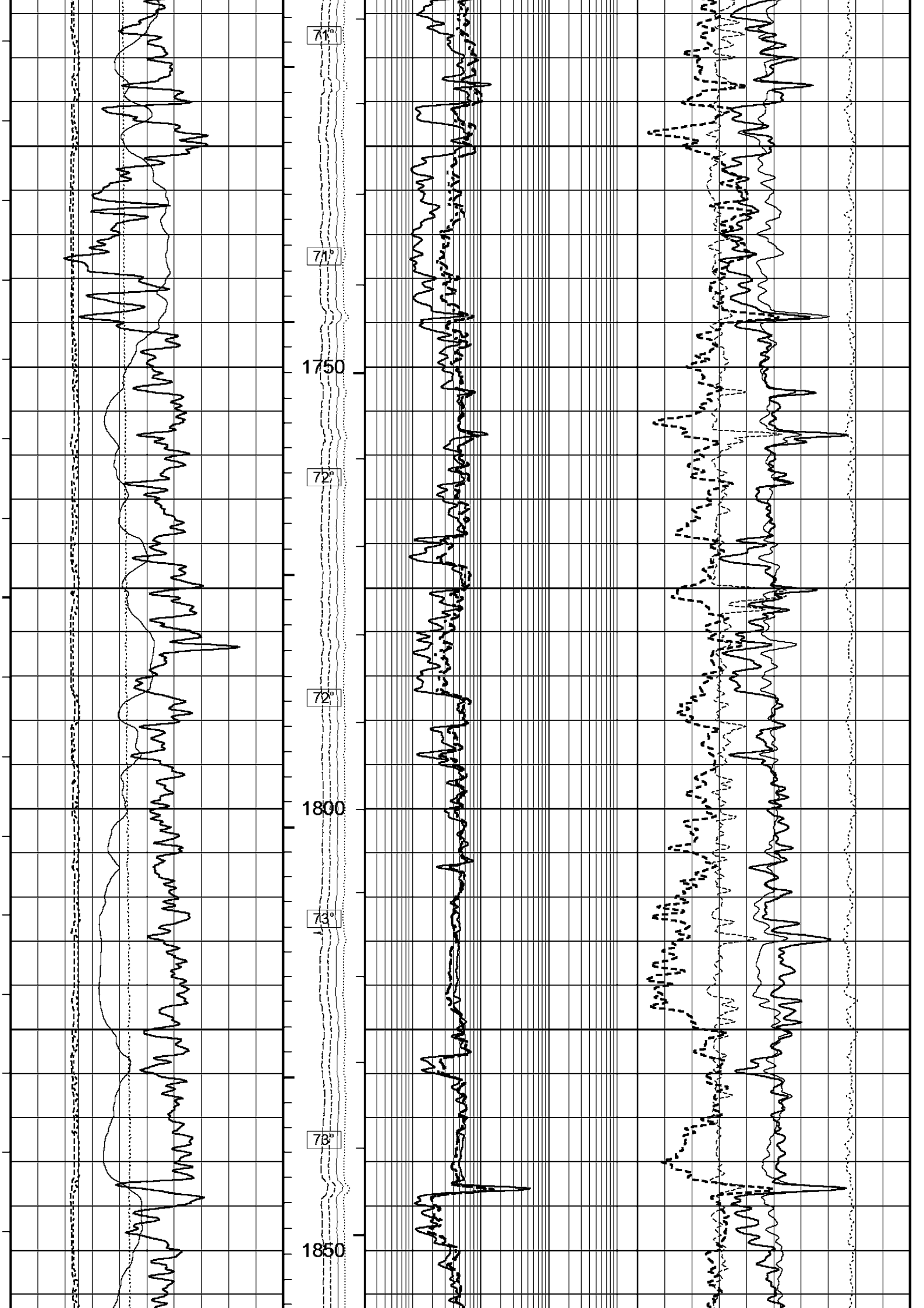


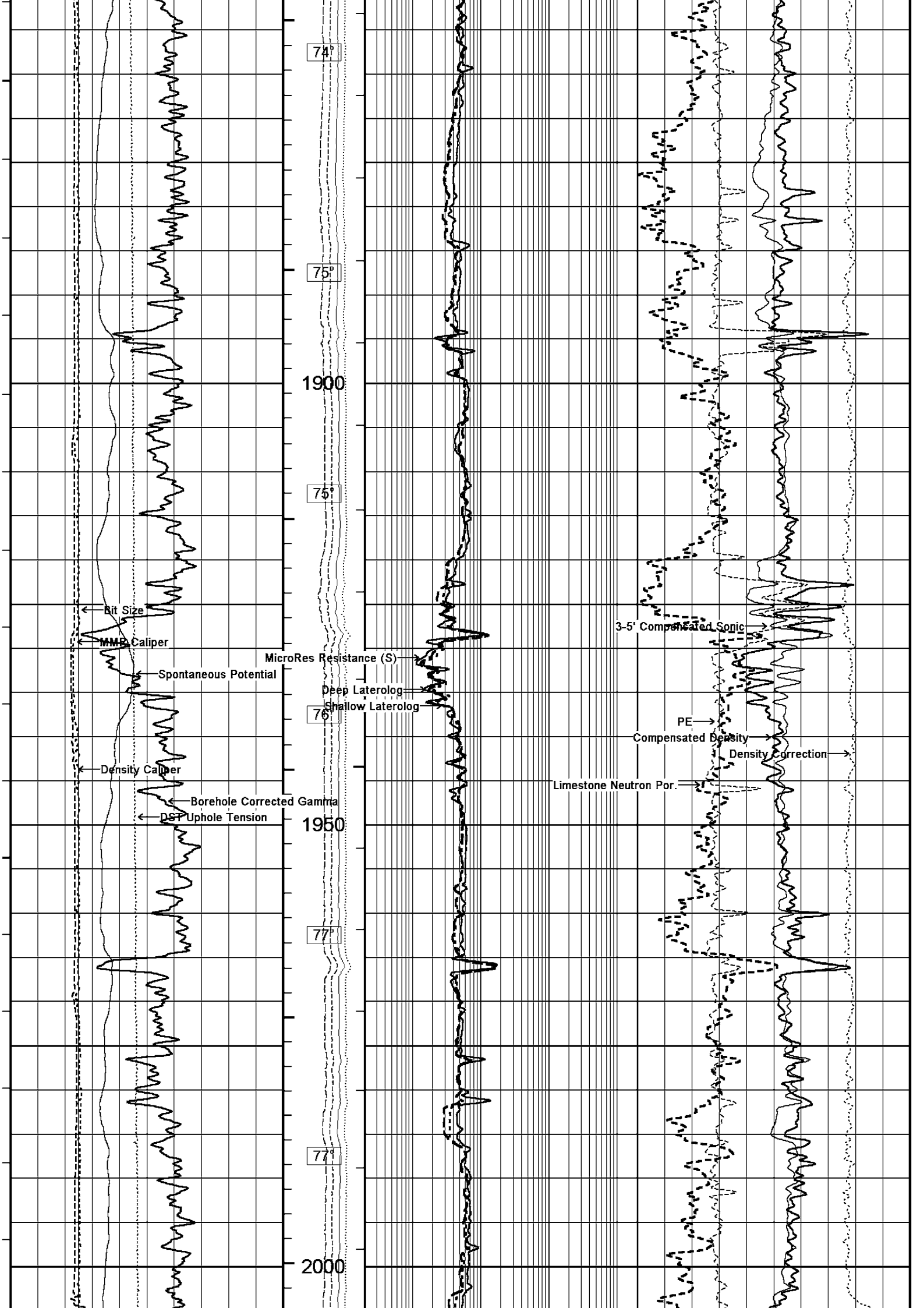


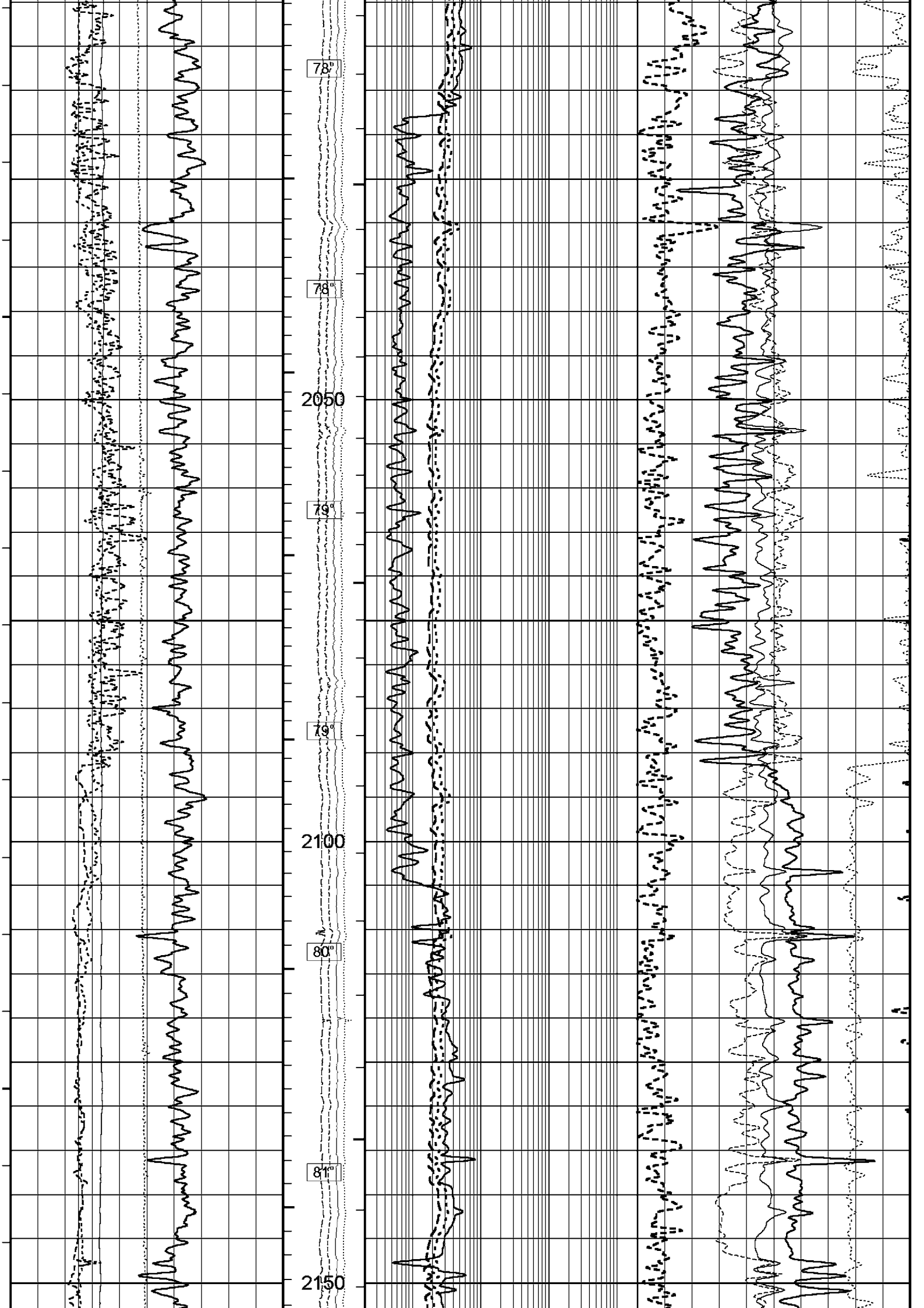




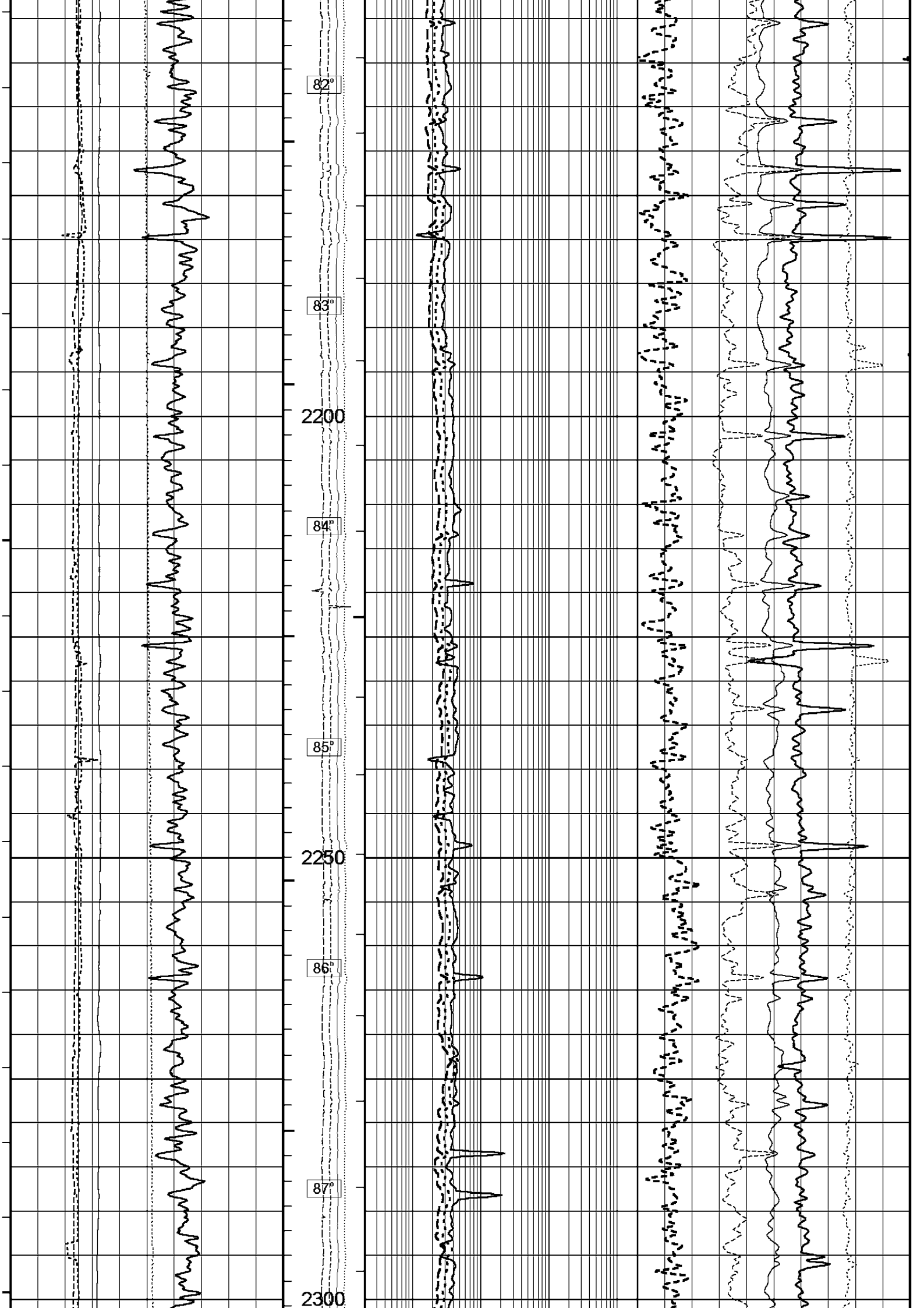


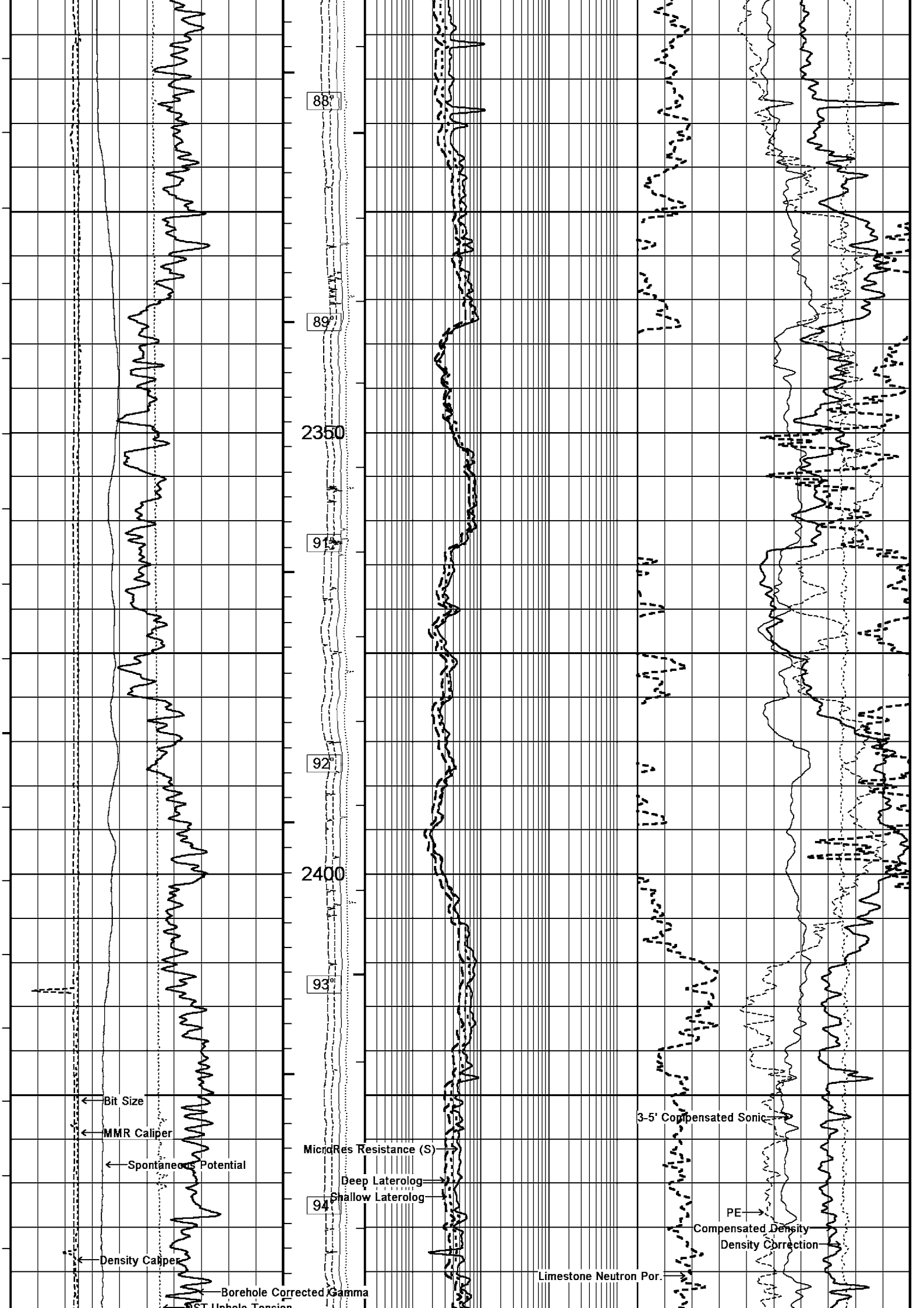


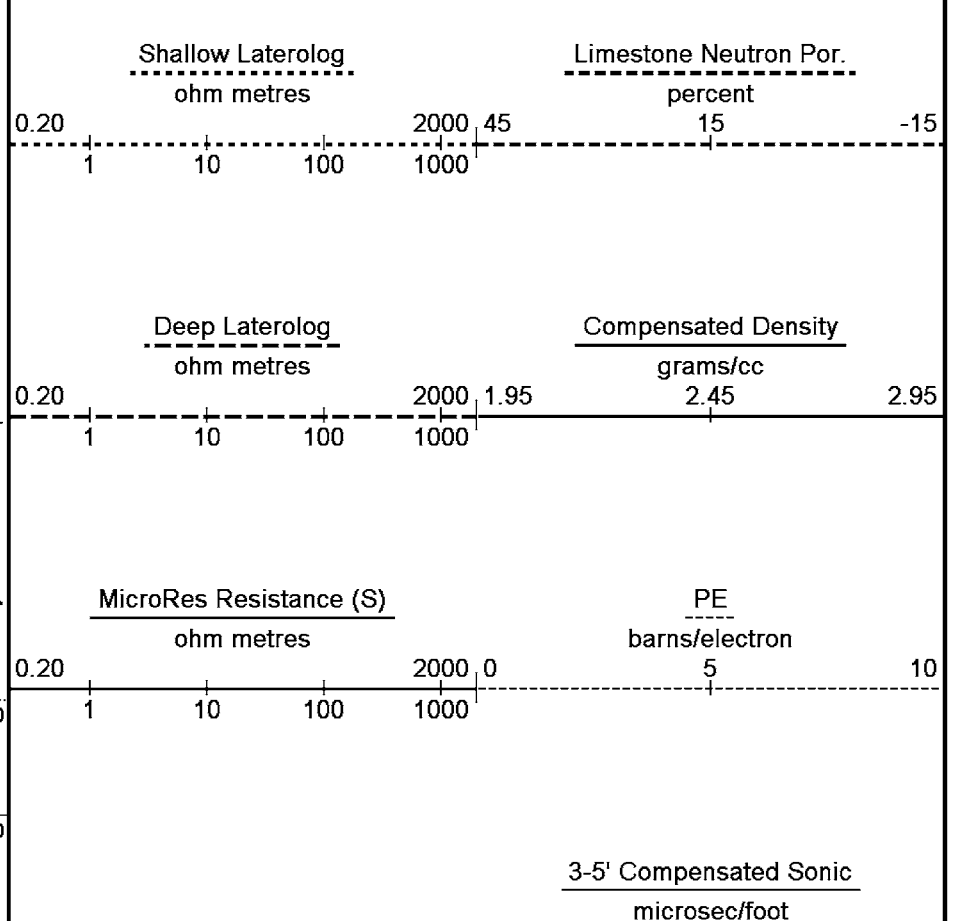
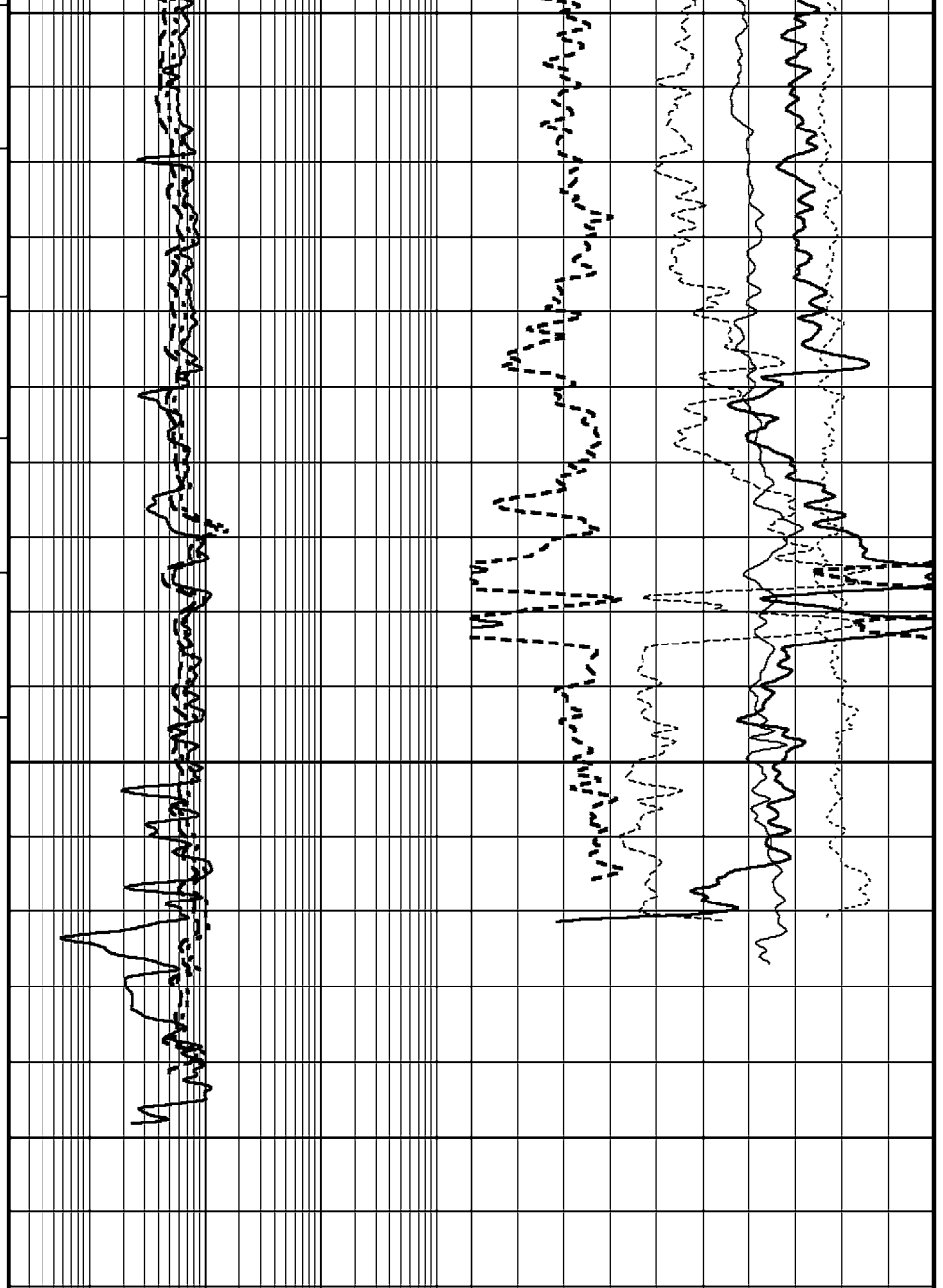
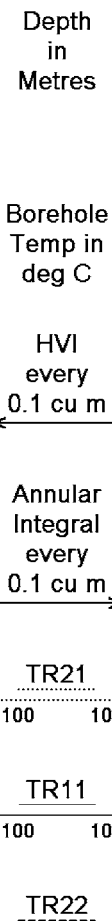
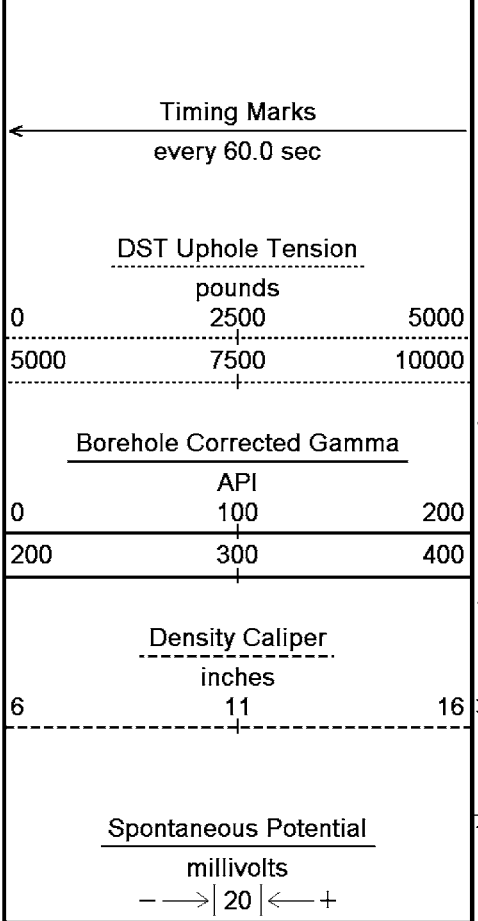
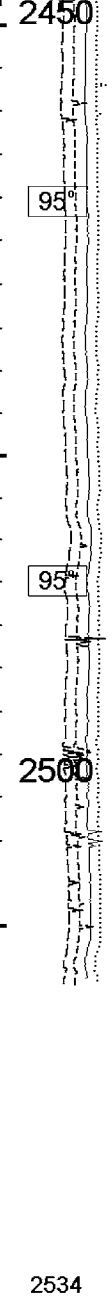
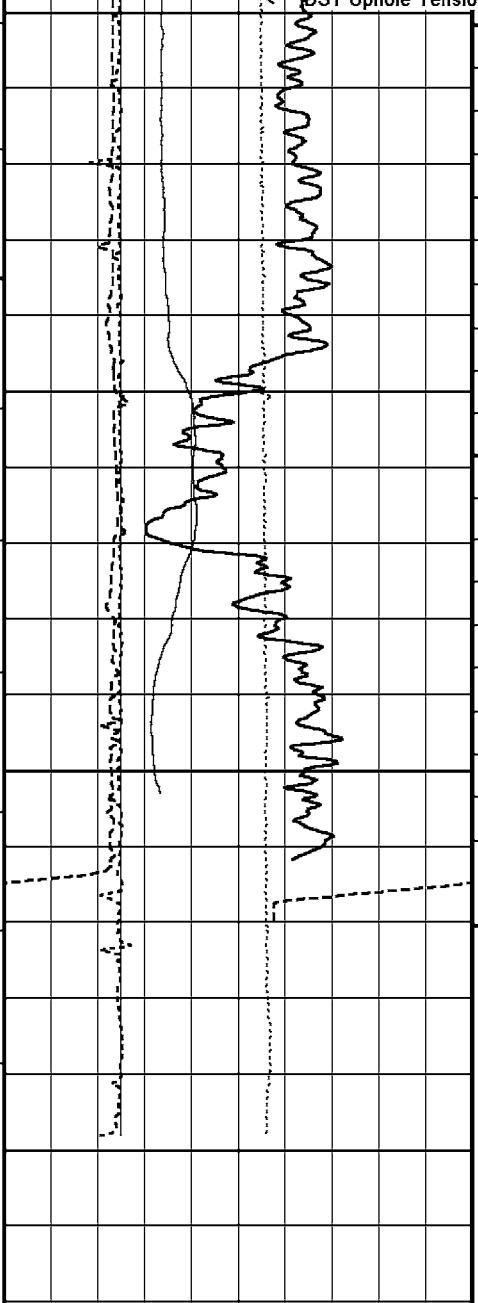












2450

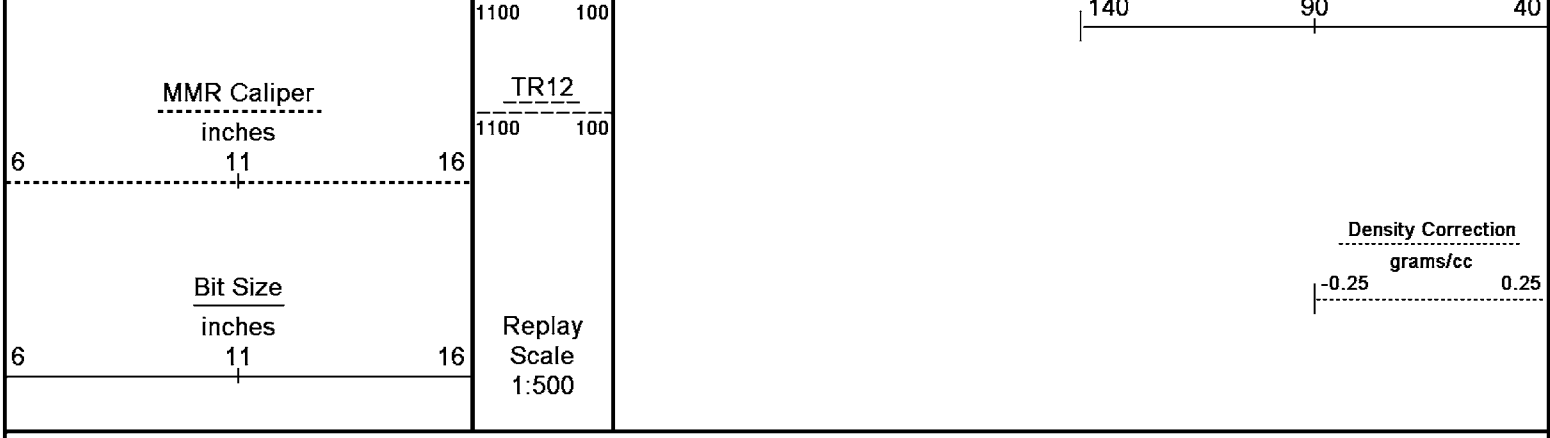
95°

95°

2500

2534

Depth in Metres

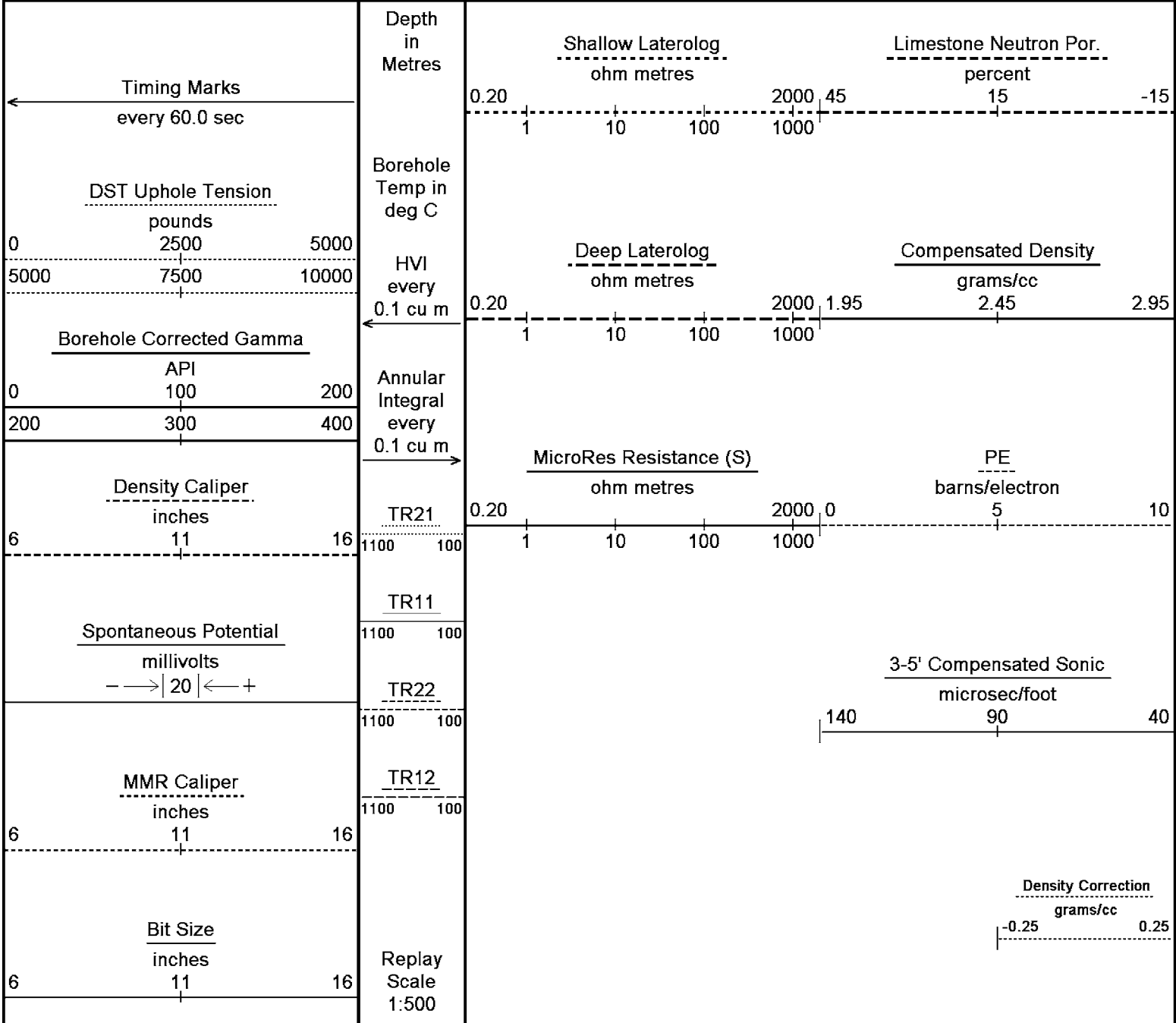


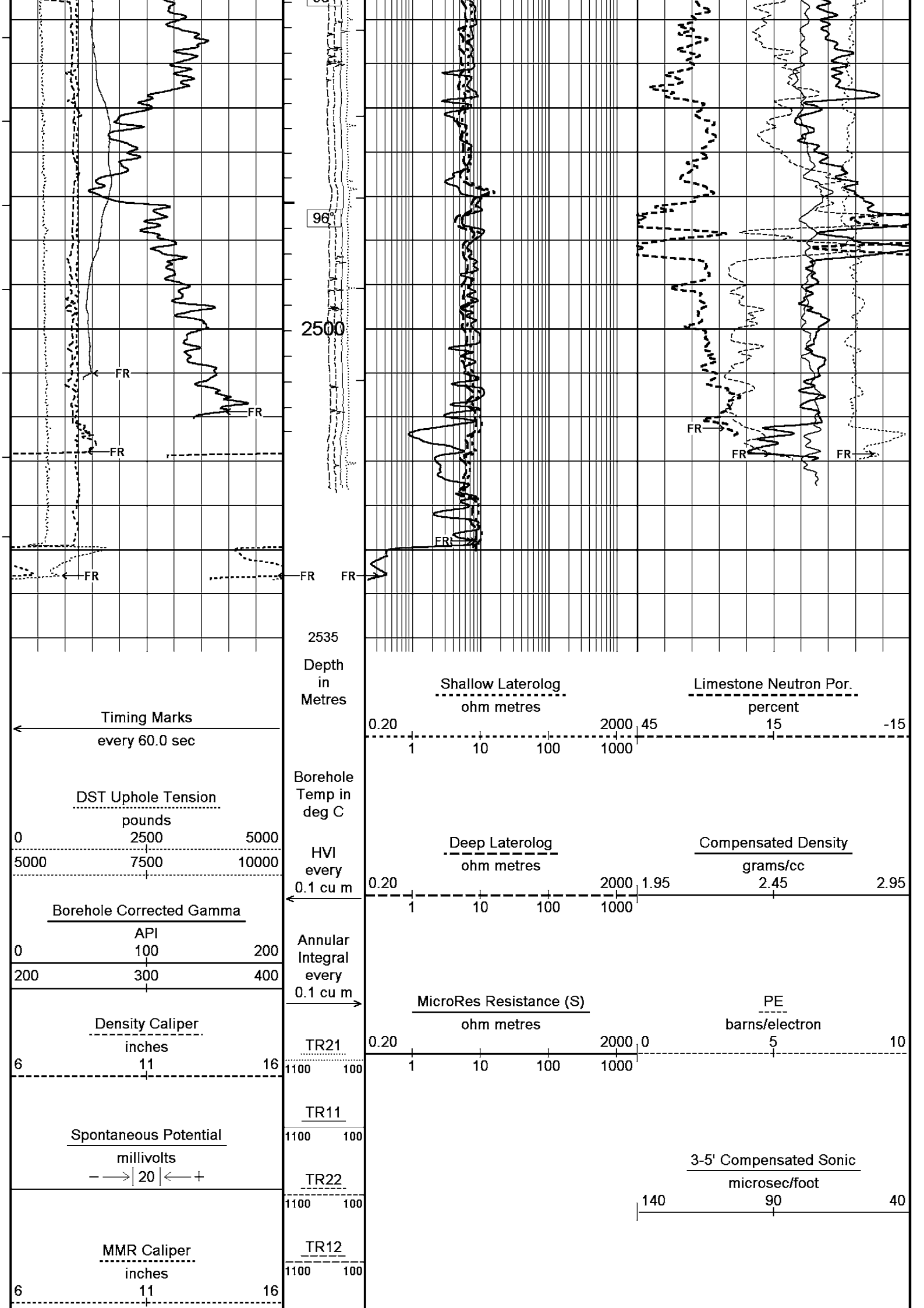
Depth Based Data - Maximum Sampling Increment 10.0cm  
 Plotted on 02-OCT-2005 00:57  
 Filename: C:\Data\Origin\Childers Cove\SUPERCOMBO\_MAIN\_LOG.dta  
 Recorded on 01-OCT-2005 18:43  
 System Configuration Dates: Logged : Plotted 17-JUN-2004:

↑ MAINLOG 1:500 ↑

↓ REPEAT SECTION 1:500 ↓

Depth Based Data - Maximum Sampling Increment 10.0cm  
 Plotted on 02-OCT-2005 00:57  
 Filename: C:\Data\Origin\Childers Cove\SUPERCOMBO2.dta  
 Recorded on 01-OCT-2005 18:14  
 System Configuration Dates: Logged 17-JUN-2004: Plotted 17-JUN-2004:





<u>Bit Size</u> inches		Replay Scale 1:500	<u>Density Correction</u> grams/cc
6	11		16

Depth Based Data - Maximum Sampling Increment 10.0cm  
 Plotted on 02-OCT-2005 00:57  
 Filename: C:\Data\Origin\Childers Cove\SUPERCOMBO2.dta  
 Recorded on 01-OCT-2005 18:14  
 System Configuration Dates: Logged 17-JUN-2004: Plotted 17-JUN-2004:

↑ REPEAT SECTION 1:500 ↑

**BEFORE SURVEY CALIBRATION**  
 C:\Data\Origin\Childers Cove\SUPERCOMBO.dta

**General Constants All 000**

<b>General Parameters</b>		
Mud Resistivity	3.210	ohm-metres
Mud Resistivity Temperature	20.000	degrees C
Water Level	0.000	metres
Density/Neutron Processing	Wet Hole	
<b>Hole/Annular Volume and Differential Caliper Parameters</b>		
HVOL Caliper 1	Density Caliper	
HVOL Caliper 2	Density Caliper	
Annular Volume Diameter	7.000	inches
Caliper for Differential Caliper	Density Caliper	
<b>Rwa Parameters</b>		
Porosity used	Limestone Sonic Porosity	
Resistivity used	Deep Laterolog	
RWA Constant A	0.610	
RWA Constant M	2.150	

**Gamma Calibration MCG 098** Field Calibration on 30-SEP-2005 22:45

	Measured	Calibrated (API)
Background	29	22
Calibrator (Gross)	1029	771
Calibrator (Net)	1000	749

**Gamma Constants MCG 098**

Gamma Calibrator Number	30	
Mud Density	1.15	gm/cc
Caliper Source for Processing	Density Caliper	
Tool Position	Eccentred	
Concentration of KCl	0.00	kppm

**High Resolution Temperature Calibration MCG 098** Field Calibration on 30-SEP-2005,22:46

	Measured	Calibrated(Deg C)
Lower	0.00	0.00
Upper	100.00	100.00

**High Resolution Temperature Constants MCG 098**

Pre-filter Length	11
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**SP Calibration MCG 098** Field Calibration on 30-SEP-2005,22:45

	Measured	Calibrated (mV)
Reference 1	1604.7	1599.0
Reference 2	-1599.8	-1599.0

**Neutron Calibration MDN 043** Base Calibration on 22-AUG-2005 15:53  
Field Check on 30-SEP-2005 22:52

<b>Base Calibration</b>				
	Measured		Calibrated (cps)	
	Near	Far	Near	Far
Ratio	3021	94	3714	110
	32.071		33.764	

Field Calibrator at Base	Calibrated (cps)
	1674      2333
Ratio	0.717
Field Check	Calibrated (cps)
	1647      2293
Ratio	0.718

### Neutron Constants MDN 043

Neutron Source Id	NSNE-747	
Neutron Jig Number	31	
Epithermal Neutron	No	
Caliper Source for Processing	Density Caliper	
Stand-off	0.00	inches
Mud Density	1.15	gm/cc
Limestone Sigma	7.10	cu
Sandstone Sigma	4.26	cu
Dolomite Sigma	4.70	cu
Formation Pressure Source	Constant Value	
Formation Pressure	0.00	kpsi
Temperature Source	Constant Value	
Temperature	20.00	degrees C
Mud Salinity	11.57	kppm
Formation Fluid Salinity Source	Constant Value	
Formation Fluid Salinity	0.00	kppm
Barite Mud Correction	Not Applied	

### Photo Density Calibration MPD 066

Base Calibration on 22-AUG-2005,12:13  
Field Check on 30-SEP-2005 23:22

Density Calibration		Measured		Calibrated (sdu)	
Base Calibration		Near	Far	Near	Far
Reference 1		49825	17938	53111	19310
Reference 2		23308	2480	24951	2530
Field Check at Base		918.0	1089.7		
Field Check		919.8	1086.8		
PE Calibration		Measured		Calibrated	
Base Calibration		WS	WH	Ratio	Ratio
Background		176	793		
Reference 1	15856	49650	0.321	0.320	
Reference 2	6240	23176	0.271	0.273	
Field Check at Base		176.0	793.2		
Field Check		173.6	795.1		

### Density Constants MPD 066

Density Source Id	NSDL250	
Nylon Calibrator Number	DNC-D-536	
Aluminium/Fe Calibrator Number	DAC-D-536	
Density Shoe Profile	8 inch	
Caliper Source for Processing	Density Caliper	
PE Correction to Density	Not Applied	
Mud Density	1.15	gm/cc
Mud Density Z/A Correction	1.11	
Mud Filtrate Density	1.00	gm/cc
Dry Hole Mud Filtrate Density	1.00	gm/cc
DNCT	0.00	gm/cc
CRCT	0.00	gm/cc
Matrix Density (gm/cc)	Depth (m)	
2.71	0.00	
0.00	0.00	
0.00	0.00	
0.00	0.00	

0.00	0.00
0.00	0.00
0.00	0.00
0.00	0.00

Caliper Calibration MPD 066

Base Calibration on 22-AUG-2005 11:11  
Field Calibration on 8-SEP-2005,03:44

Base Calibration

Reading No	Measured	Calibrator Size (in)
1	11983	4.01
2	20446	5.99
3	29120	7.98
4	37568	9.94
5	47008	12.01
6	N/A	N/A

Field Calibration

Measured Caliper (in)	Actual Caliper (in)
8.37	8.92

Sonic Constants MSS 049

Maximum Boundary Contrast	100.00	micro-sec/ft
Fluid Transit Time	189.00	micro-sec/ft
Limestone Transit Time	47.50	micro-sec/ft
Sandstone Transit Time	55.50	micro-sec/ft
Dolomite Transit Time	43.50	micro-sec/ft
Sonic used for Porosities	3-5' Compensated	
Correction for Sonde Skew	Applied	
Cycle Stretch Algorithm	Applied	
MN3FT	0.00	micro-sec
MX3FT	1500.00	micro-sec

Fixed Gate Parameters

Start Time (micro-sec)	End Time (micro-sec)	Discriminator (mV)	Depth (m)
0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00

Down Hole Fixed Gate Parameters

Gate Start	0.00	micro-sec
Gate Width	0.00	micro-sec
Initial Discriminator Level	0.0000	mVolts

Full Waveform Parameters

Use 3' Waveform to derive TR	No	
Use 4' Waveform to derive TR	No	
Use 5' Waveform to derive TR	No	
Use 6' Waveform to derive TR	No	
3' Waveform Discriminator Level	0.30	mV
4' Waveform Discriminator Level	0.30	mV
5' Waveform Discriminator Level	0.15	mV
6' Waveform Discriminator Level	0.15	mV
3' Waveform Filter	0	
4' Waveform Filter	0	
5' Waveform Filter	0	
6' Waveform Filter	0	
Semblance Level	0.50	
Semblance Window Width	120.00	micro-sec
Sonic 1 Despiker	100.00	micro-sec/ft
Sonic 2 Despiker	100.00	micro-sec/ft

Laterolog Calibration MLE 016

Base Calibration on 24-AUG-2005 11:54  
Field Check on 30-SEP-2005,22:57

Base Calibration

Channel	Resistor 1	Measured		Calibrated (ohm-m)	
		Resistor 2	Resistor 1	Resistor 2	
Shallow	9.7	965.7	13.3	1327.3	
Deep	9.7	966.0	8.5	852.7	
Groningen	9.7	966.3	8.5	852.7	

Channel	Base Check (ohm-m)	Field Check (ohm-m)
Shallow	49.4	49.4
Deep	31.7	31.7



Deep  
Groningen

253.9

253.9

Laterolog Constants MLE 016

Squasher Start	40000	ohm-m
Shallow Laterolog K Factor	1.3273	
Deep Laterolog K Factor	0.8527	
Groningen Laterolog K Factor	0.8527	
Interference Rejection	50 Hz	
SP Connection	SP Bridle Electrode	
Groningen Connection	None	

SP Calibration MLE 016

Field Calibration on 31-AUG-2005 09:41

	Measured	Calibrated (mV)
Reference 1	93.1	100.0
Reference 2	-114.1	-100.0

Micro Laterolog Calibration MMR 005

Base Calibration on 24-AUG-2005 09:35  
Field Check on 30-SEP-2005 23:01

Base Calibration

	Measured		Calibrated (ohm-m)	
	Ref 1	Ref 2	Ref 1	Ref 2
	0.0	9744.7	0.0	196.0
	Base Check (ohm-m)		Field Check (ohm-m)	
	8.1		8.0	

Micro Laterolog Constants MMR 005

Micro Laterolog K Factor	0.0196	
Standoff Offset	0.0000	inches

Caliper Calibration MMR 005

Base Calibration on 24-AUG-2005 09:28  
Field Calibration on 24-AUG-2005 09:30

Base Calibration

Reading No	Measured	Calibrator Size (in)
1	12058	4.01
2	14996	5.99
3	18272	7.98
4	21721	9.94
5	25905	12.01
6	N/A	N/A

Field Calibration

Measured Caliper (in)	Actual Caliper (in)
7.96	7.98

DOWNHOLE EQUIPMENT

C:\Data\Origin\Childers Cove\SUPERCOMBO.dta

Compact Stiff Bridle Electrode Sub.  
MBE 22 Length: 3.76 m Weight: 94.8 lb

Compact Stiff Bridle Electrode Sub.  
MBE 42 Length: 3.76 m Weight: 94.8 lb



22.90 m SPDL - Spontaneous Potential

Compact Gamma  
MCG 98 Length: 2.65 m Weight: 63.9 lb

18.56 m GGCE - Borehole Corrected Gamma  
17.67 m CGXT - MCG External Temperature

Compact Neutron  
MDN 43 Length: 1.53 m Weight: 50.7 lb

16.69 m NPRL - Limestone Neutron Por.

Compact Density/Caliper  
MPD 66 Length: 2.92 m Weight: 90.4 lb

14.01 m AVOL - Annular Volume  
14.01 m HVOL - Hole Volume  
14.01 m CLDC - Density Caliper  
13.80 m DEN - Compensated Density

Compact Knuckle Joint  
SKJ 3 Length: 0.66 m Weight: 24.3 lb

13.80 m DCOR - Density Correction  
13.78 m PDPE - PE

Compact Sonic  
MSS 49 Length: 3.82 m Weight: 72.8 lb

9.24 m TR21 - 3' Transit Time  
9.24 m TR22 - 5' Transit Time  
9.24 m TR11 - 4' Transit Time  
9.24 m DT35 - 3-5' Compensated Sonic

Compact Upper Guard Sub.  
MUG 20 Length: 2.74 m Weight: 68.3 lb

9.24 m TR12 - 6' Transit Time

Compact Laterolog Electrode Sub.  
MLE 16 Length: 3.76 m Weight: 92.6 lb

3.93 m DSLL - Shallow Laterolog  
3.93 m DDLL - Deep Laterolog

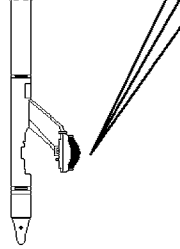
Compact Micro-Resistivity  
MMR 5 Length: 2.62 m Weight: 81.6 lb

0.00 m MRRS - MicroRes Resistance (S)  
0.00 m MATC - MMR Caliper



Pressure Bung + Hole Finder  
 HFS 3 Length: 0.28 m Weight: 6.6 lb

Total Length: 28.50 m Weight: 740.8 lb



Tool Zero (0.85m from bottom)  
 All measurements relative to tool zero.

**COMPANY** ORIGIN ENERGY RESOURCES LIMITED  
**WELL** CHILDERS COVE 1  
**FIELD** ONSHORE OTWAY BASIN  
**PROVINCE/COUNTY** VICTORIA  
**COUNTRY/STATE** AUSTRALIA

Elevation Kelly Bushing	51.50	metres	First Reading	2528.15	metres
Elevation Drill Floor	51.50	metres	Depth Driller	2545.00	metres
Elevation Ground Level	46.20	metres	Depth Logger	2529.00	metres



MDN - MPD - CAL  
 MDL - MML - MSS - GR  
 1:500