

Reeves

COMPENSATED SONIC 1:200 MD

COMPANY				ESSO AUSTRALIA PTY. LTD.			
WELL				FLOUNDER A12a			
FIELD				GIPPSLAND BASIN			
PROVINCE/COUNTY				BASS STRAIT			
COUNTRY/STATE				AUSTRALIA			
LOCATION				5758709.11 m N, 625849.47 m E 38°18'39.173" S, 148°26'21.833" E			
LSD	SEC	TWP	RGE	Other Services DUAL LATEROLOG PHOTO DENSITY			
API Number				COMPENSATED NEUTRON			
Permit Number							
Permanent Datum MSL				, Elevation 0 metres			
Log Measured From RT @ 33.85 metres				above Permanent Datum			
Drilling Measured From RT							
Date				12-APR-2003			
Run Number				1			
Depth Driller				2920.00 metres			
Depth Logger				2921.00 metres			
First Reading				2920.50 metres			
Last Reading				1250.00 metres			
Casing Driller				856.25 metres			
Casing Logger				856.00 metres			
Bit Size				8.50 inches			
Hole Fluid Type				KC/PHPA/GLY			
Density / Viscosity				9.90 lb/USg 68.00 sec/ct			
PH / Fluid Loss				9.40 2.50 ml/30Min			
Sample Source				FLOWLINE			
Rm @ Measured Temp				0.124 @ 25.0 ohm-m			
Rmf @ Measured Temp				0.113 @ 25.0 ohm-m			
Rmc @ Measured Temp				0.179 @ 25.0 ohm-m			
Source Rmf / Rmc				PRESS PRESS			
Rm @ BHT				0.048 @ 100.0 ohm-m			
Time Since Circulation				17:45 HRS			
Max Recorded Temp				100.00 deg C			
Equipment Name				COMPACT			
Equipment / Base				1			
Recorded By				M.Barnes, R.Tench			
Witnessed By				E.Espiritu			
Circ. Stopped				08:00 11-APR			

BOREHOLE RECORD

Bit Size inches	Depth From metres	Depth To metres
8.500	0.00	2920.00

CASING RECORD

Type	Size inches	Depth From metres	Shoe Depth metres	Weight pounds/ft
K-55	10.750	0.00	856.25	40.50

REMARKS

DRILLING RIG: NABORS (ISDL) 453.

TOP OF WINDOW: 856.25m
TOP OF WHIPSTOCK: 856.75m
BTM OF WINDOW: 863.25m

REEVES COMPACT WIRELINE TOOLS RUN ON SCHLUMBERGER UNIT.

MPD CALIPER AND MMR CALIPER ARE INDEPENDENT OF EACH OTHER, DUE TO SWIVALS ABOVE AND BELOW DENSITY/NEUTRON SECTION.

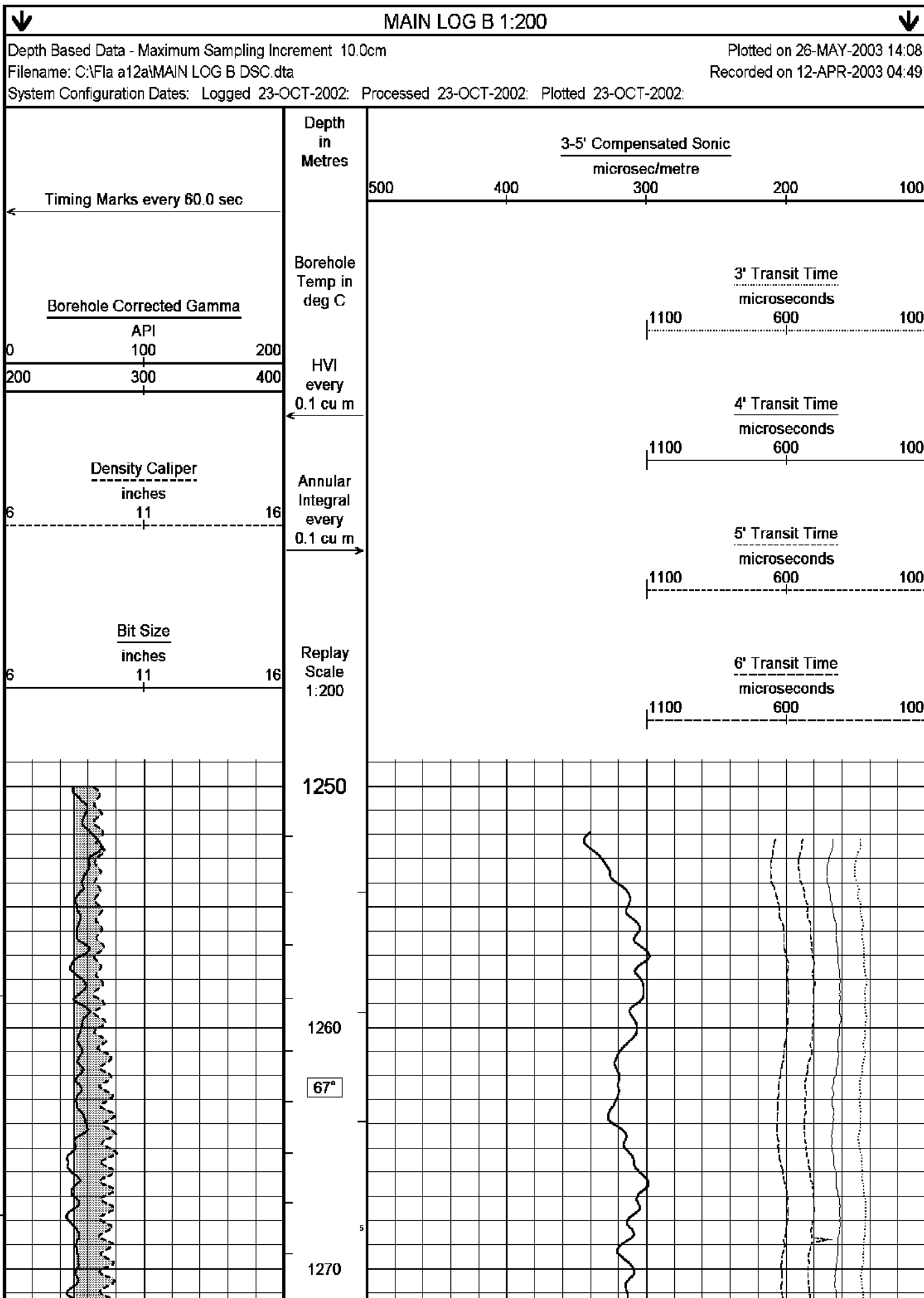
SPIKES IN DEEP LATEROLOG @ 2094m MD AND 2113m MD ARE INVALID.

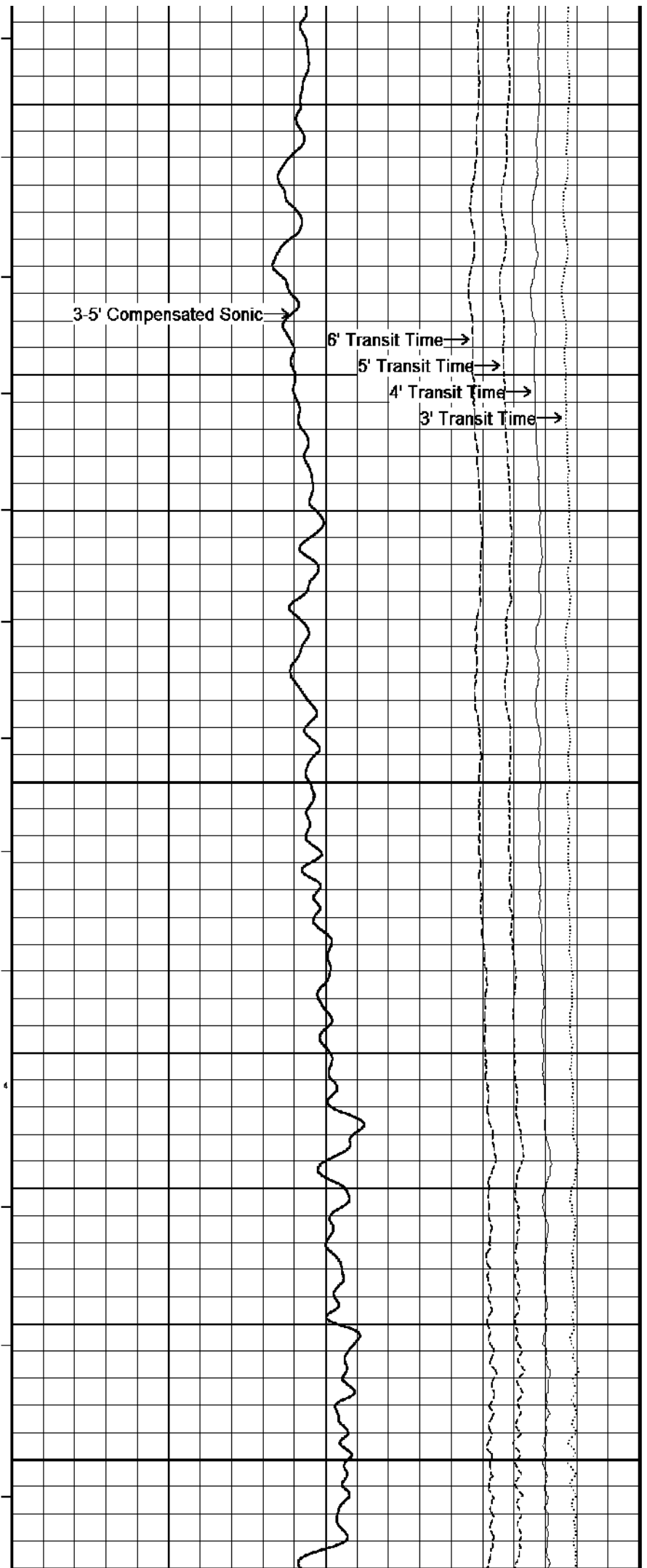
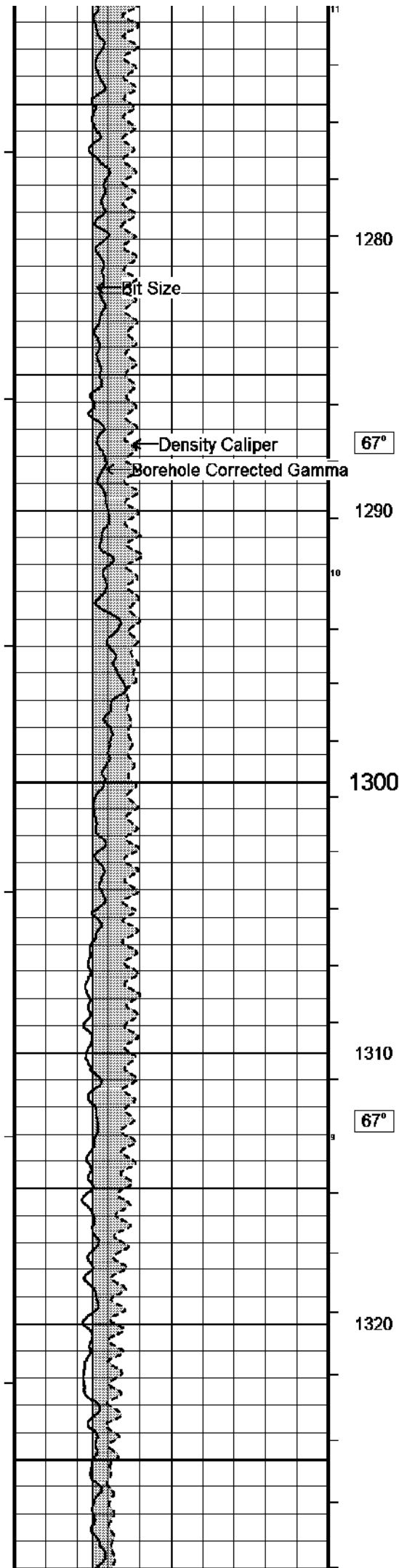
HTHP: 11.2 ml/30 min @ Deg 121 deg C.

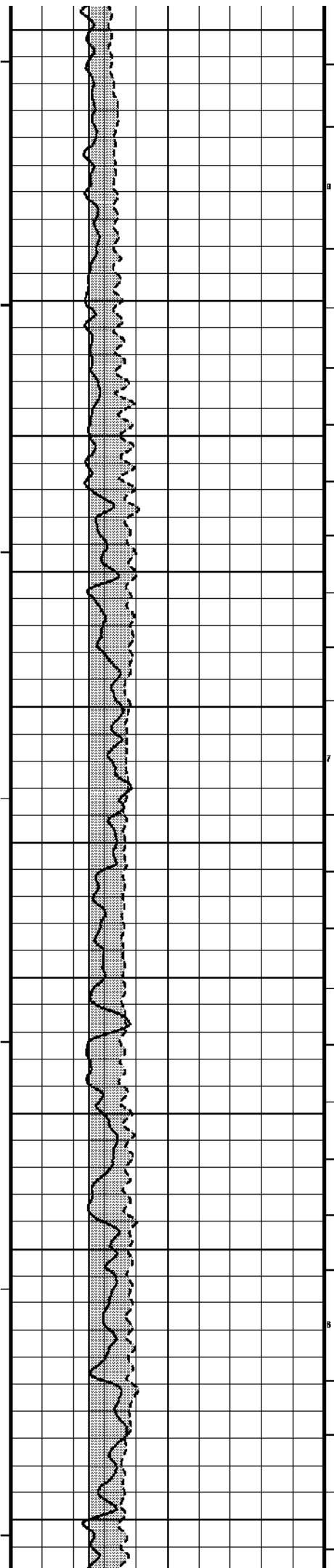
MAX DEVIATION: 53.8 DEGREES AT 2137.0 m.
DOGLEG AT 892 M, WITH DLS > 6.0 DEGREES/30 m.

REEVES CREW: M.BARNES, R.TENCH, G.MCMANUS.
SCHLUMBERGER CREW: B.GLOVER, B.TAYLOR, J.LIGHT, R.DEGROOT.

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.







1330

68°

1340

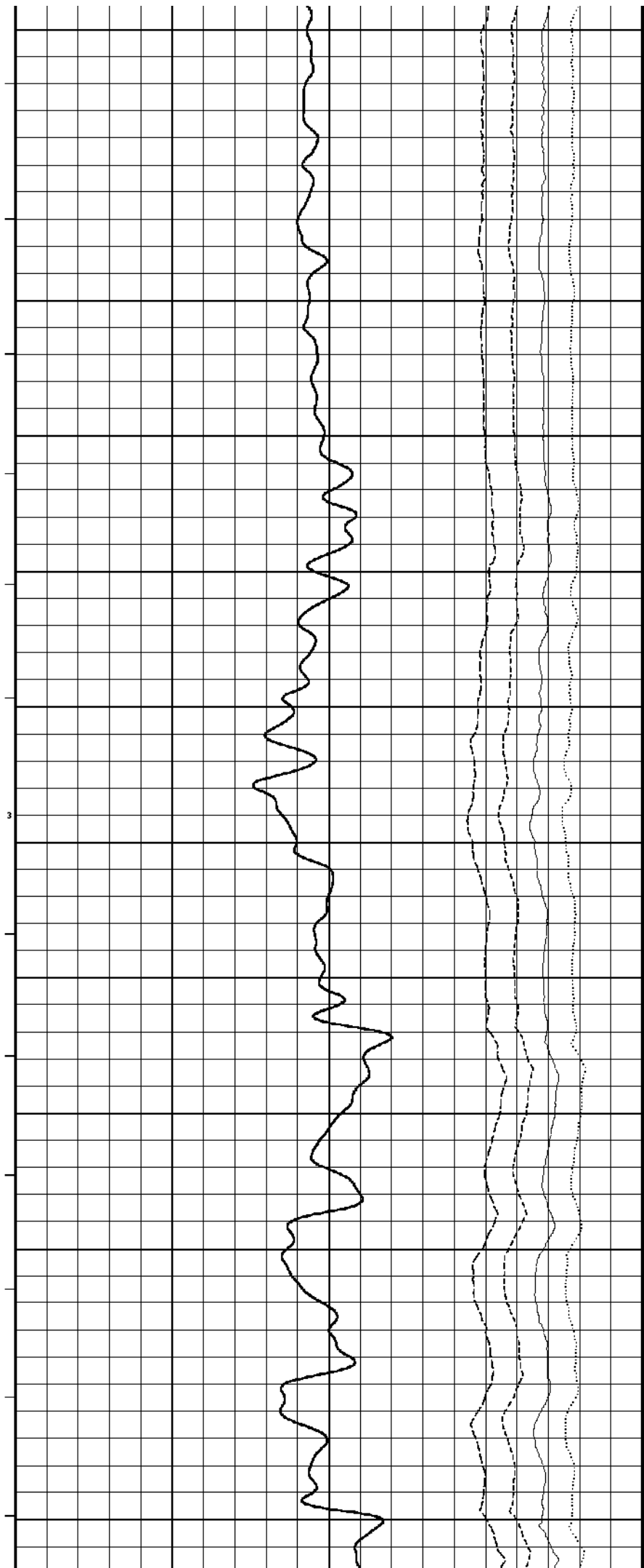
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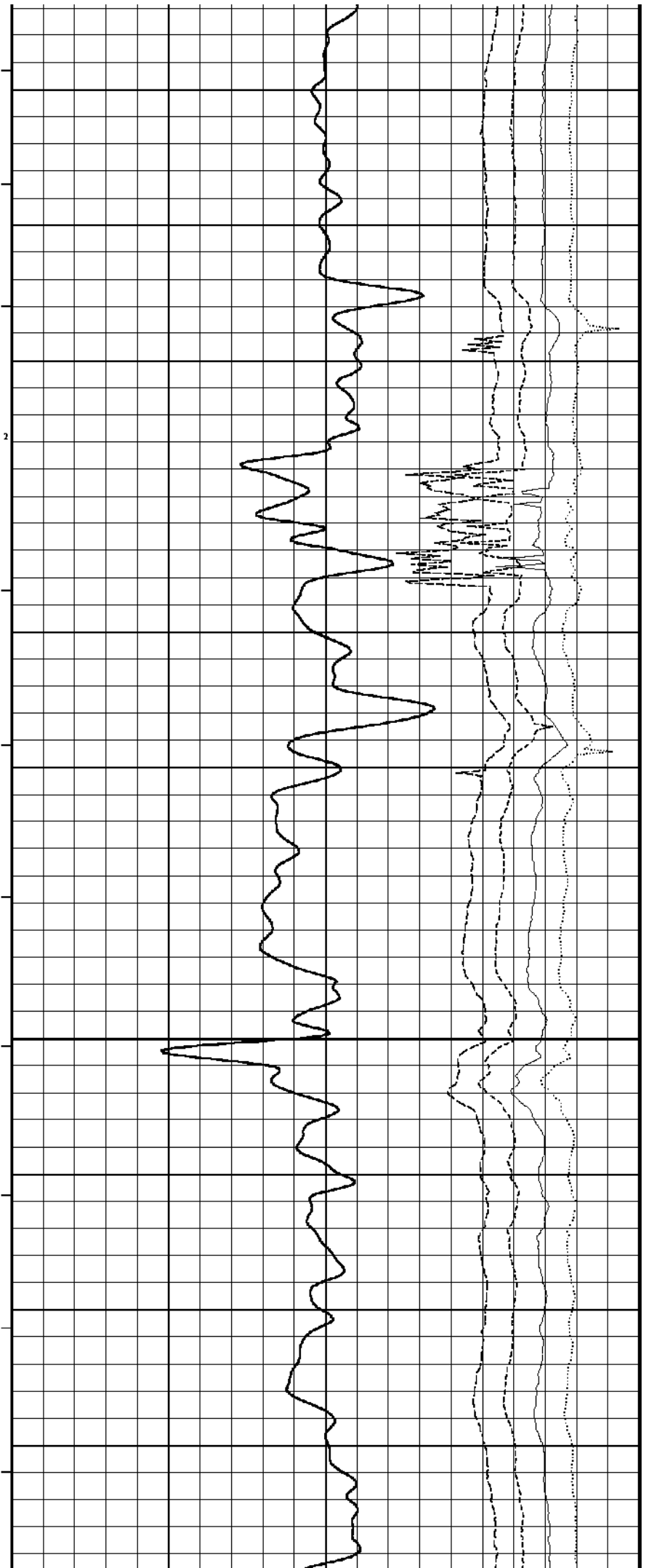
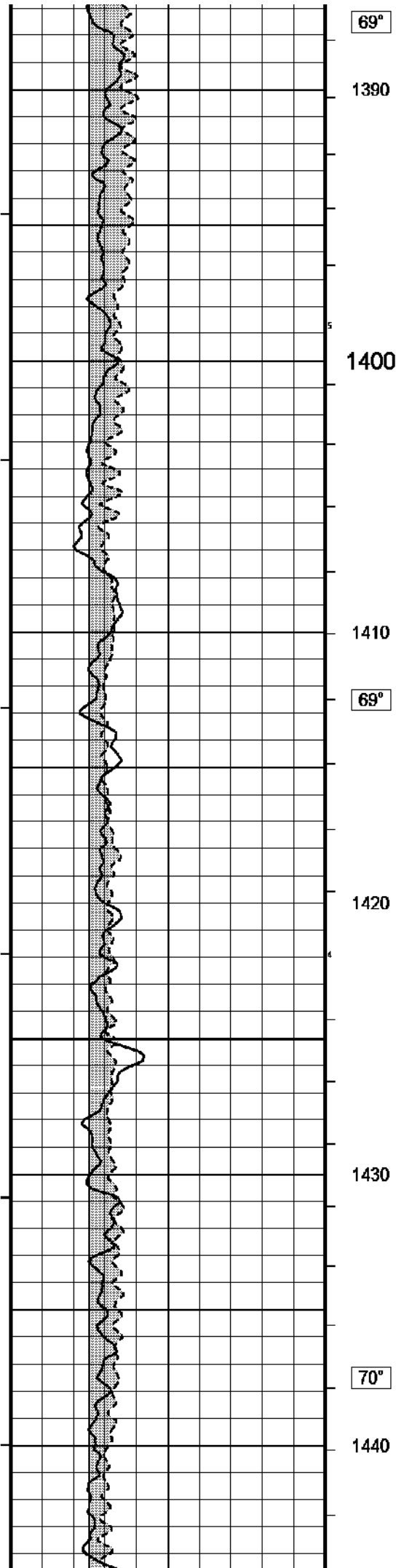
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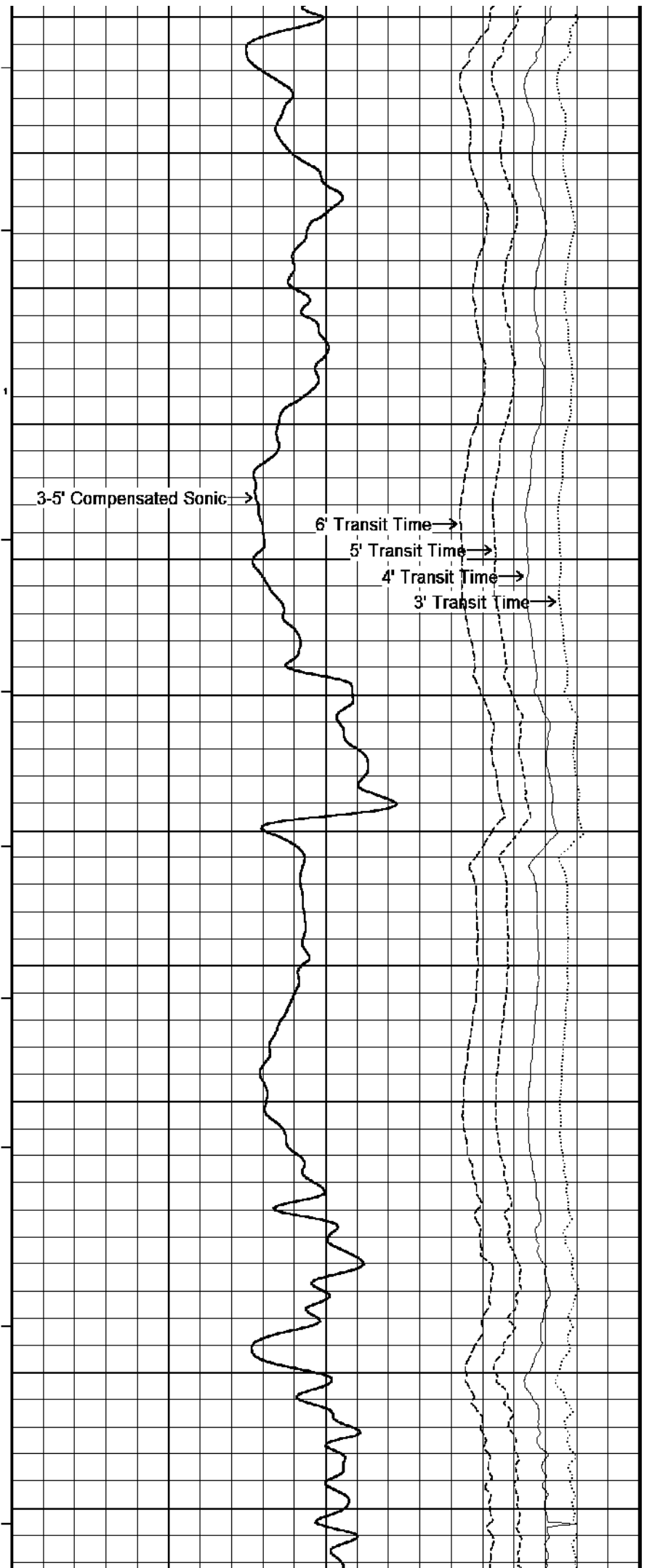
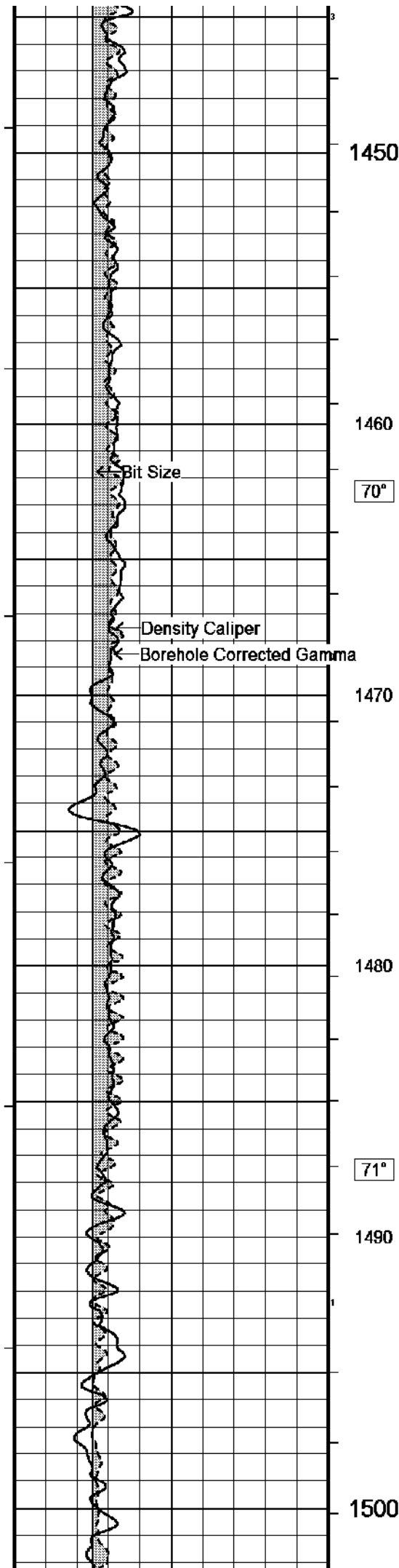
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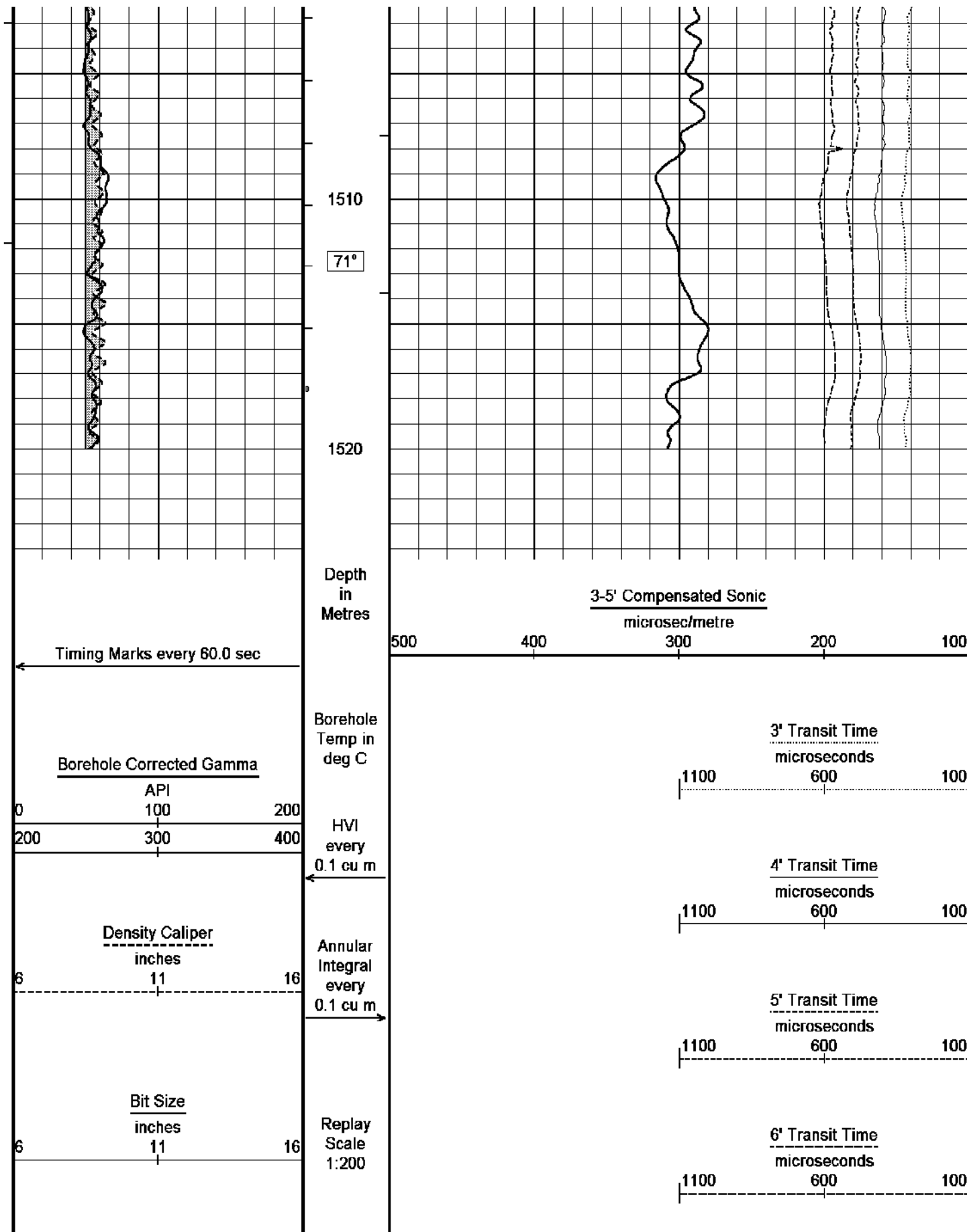
1370

1380









Depth Based Data - Maximum Sampling Increment: 10.0cm

Filename: C:\Fla a12a\MAIN LOG B DSC.dta

System Configuration Dates: Logged 23-OCT-2002: Processed 23-OCT-2002: Plotted 23-OCT-2002:

Plotted on 26-MAY-2003 14:08

Recorded on 12-APR-2003 04:49

MAIN LOG B 1:200

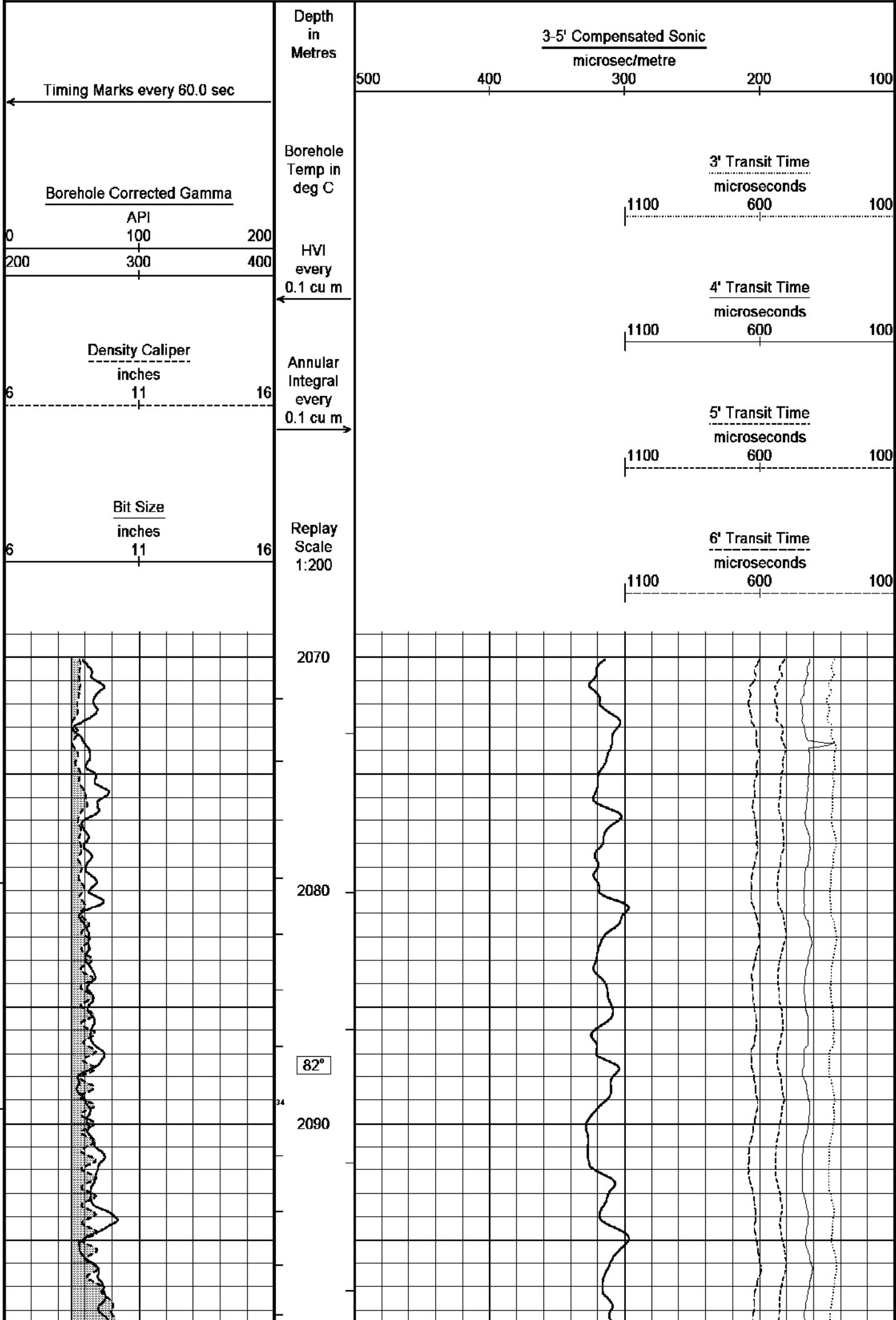
MAIN LOG A 1:200

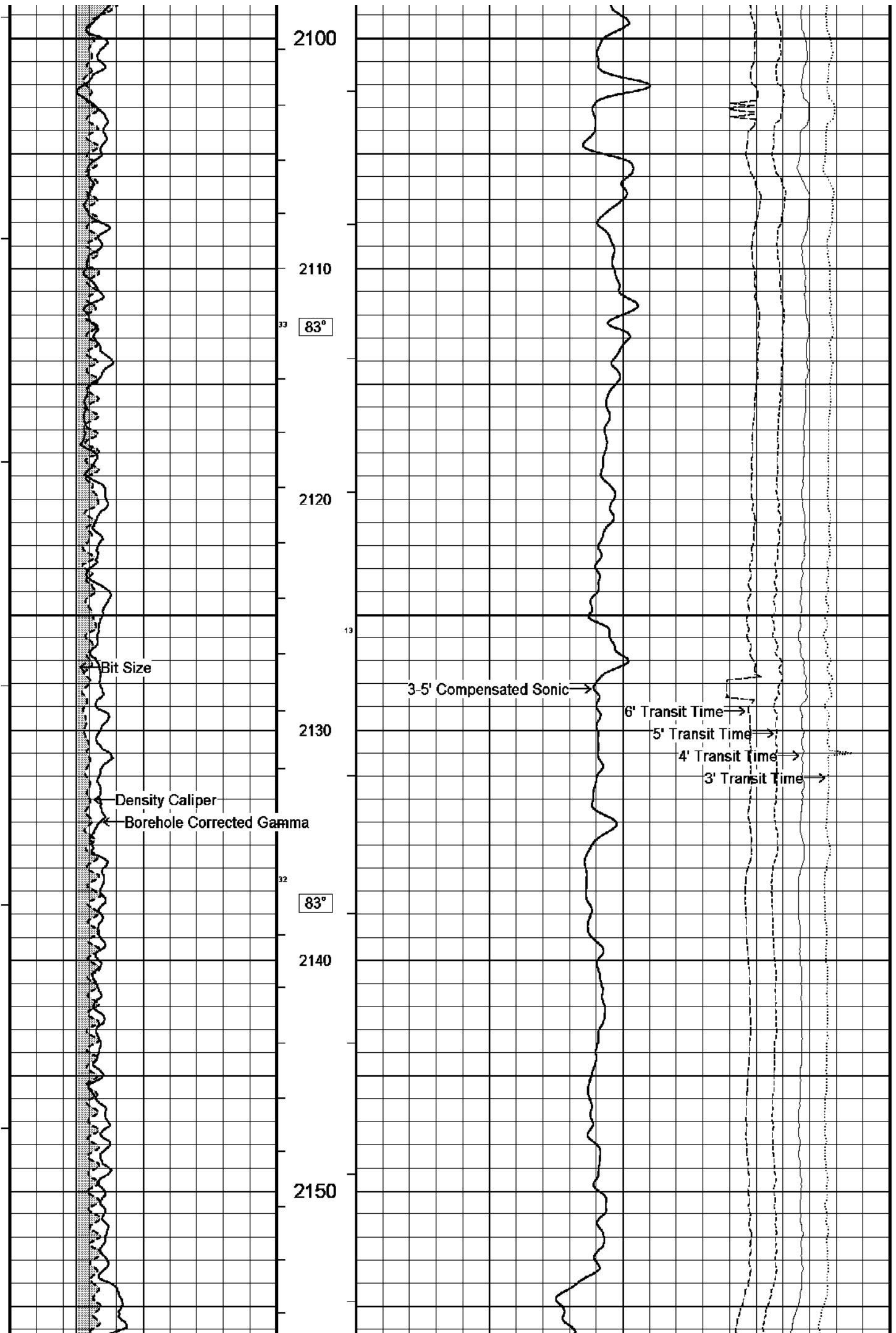
Depth Based Data - Maximum Sampling Increment: 10.0cm

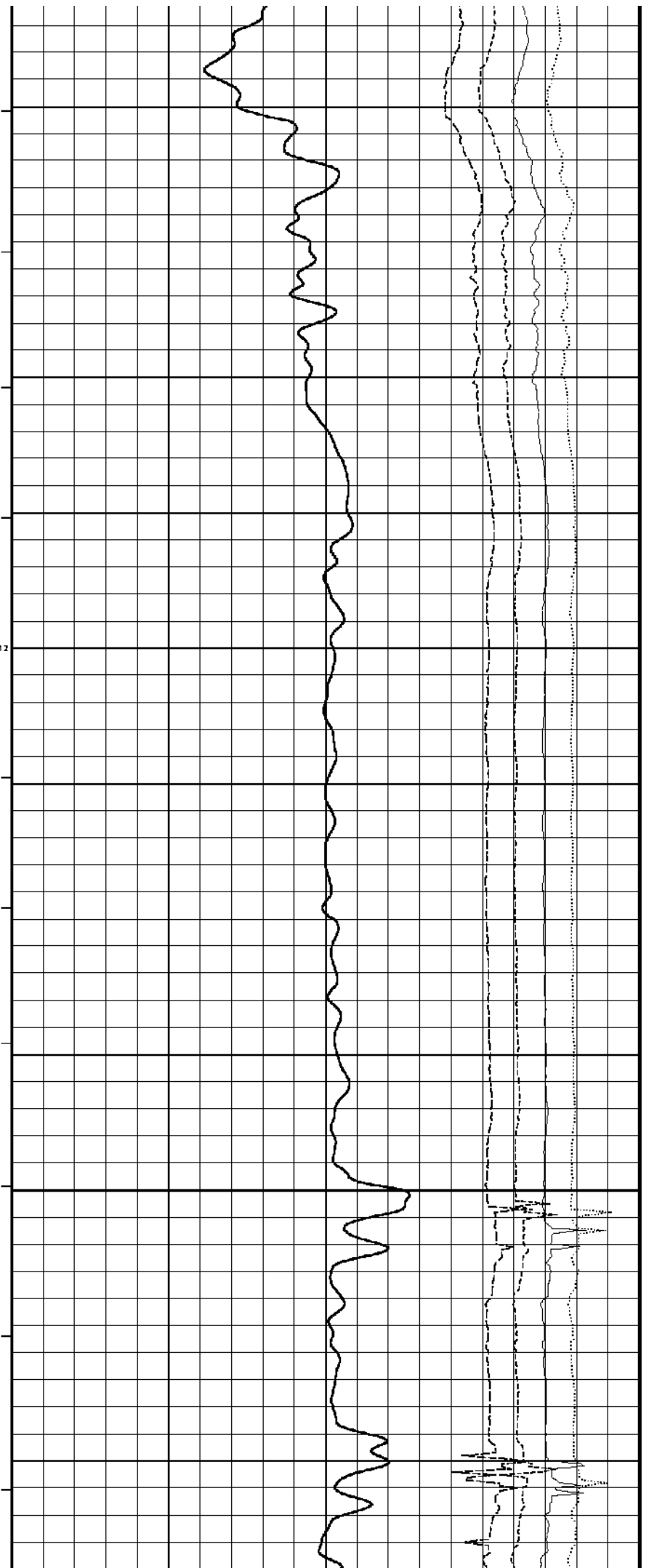
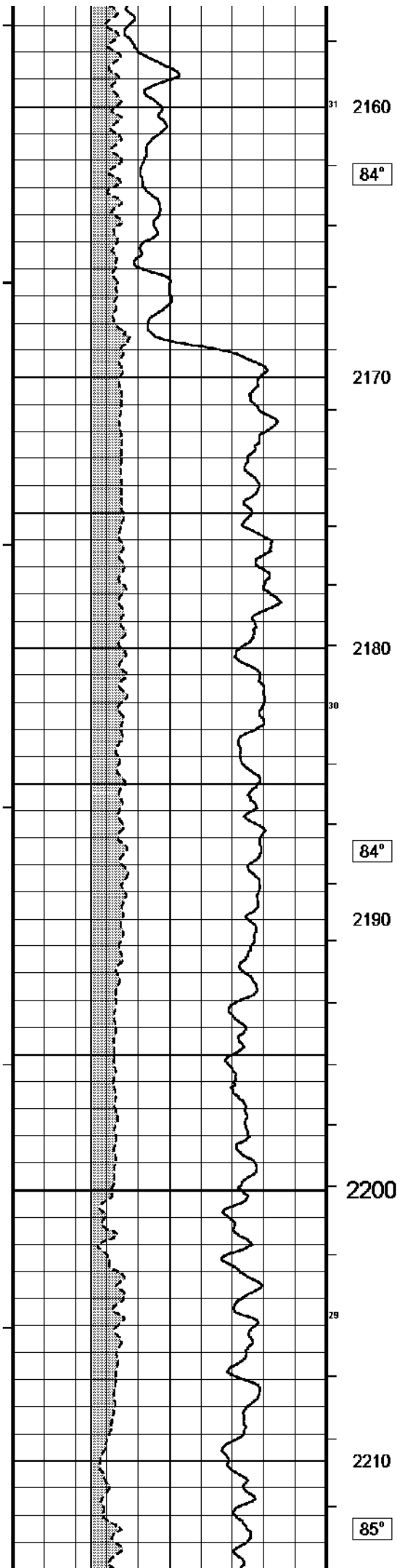
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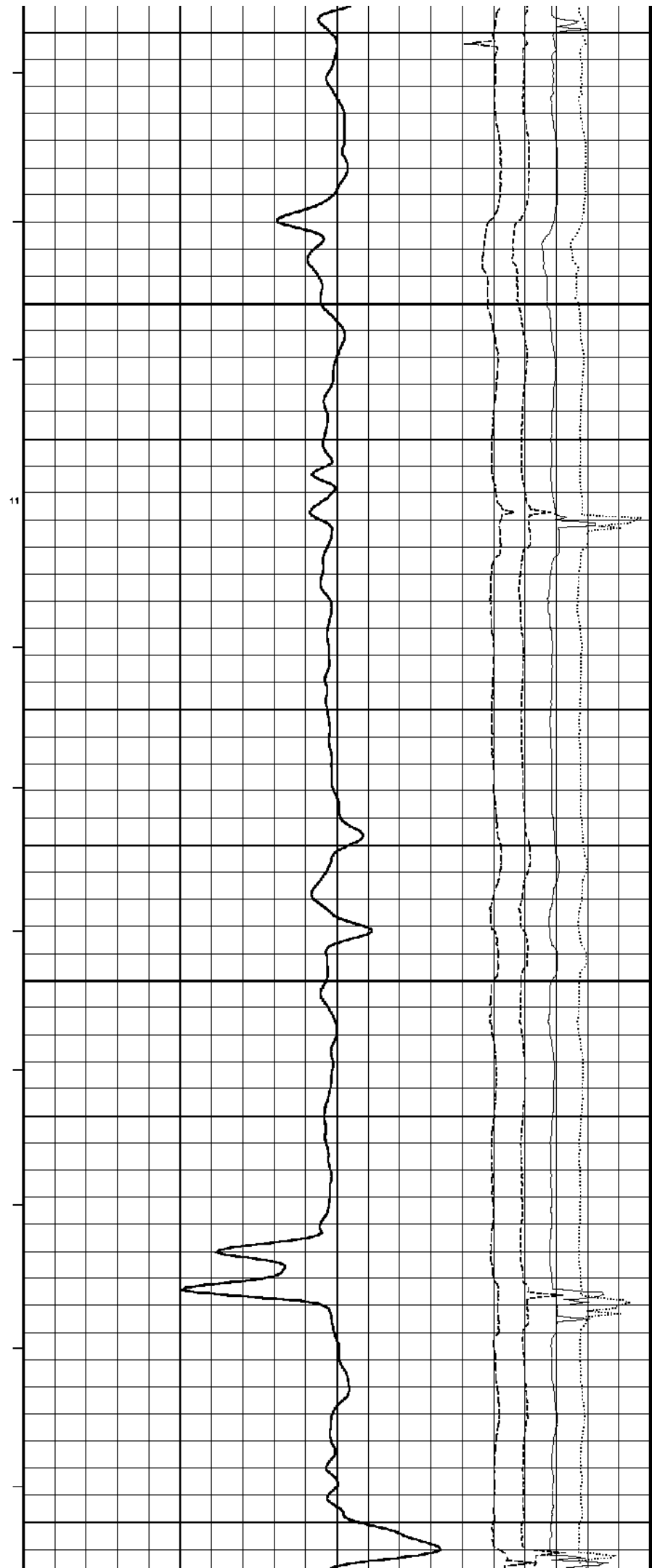
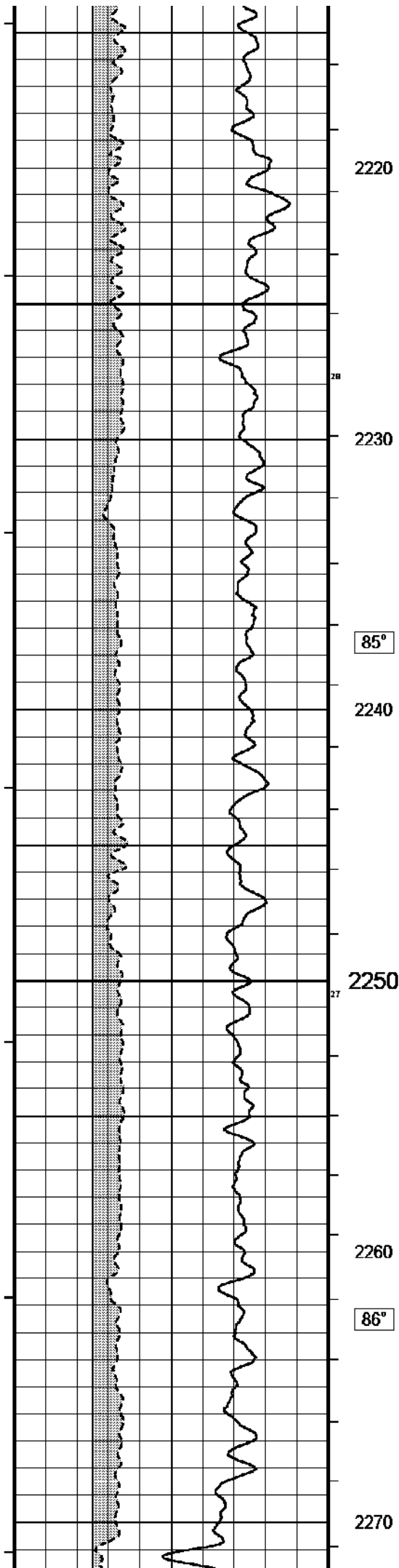
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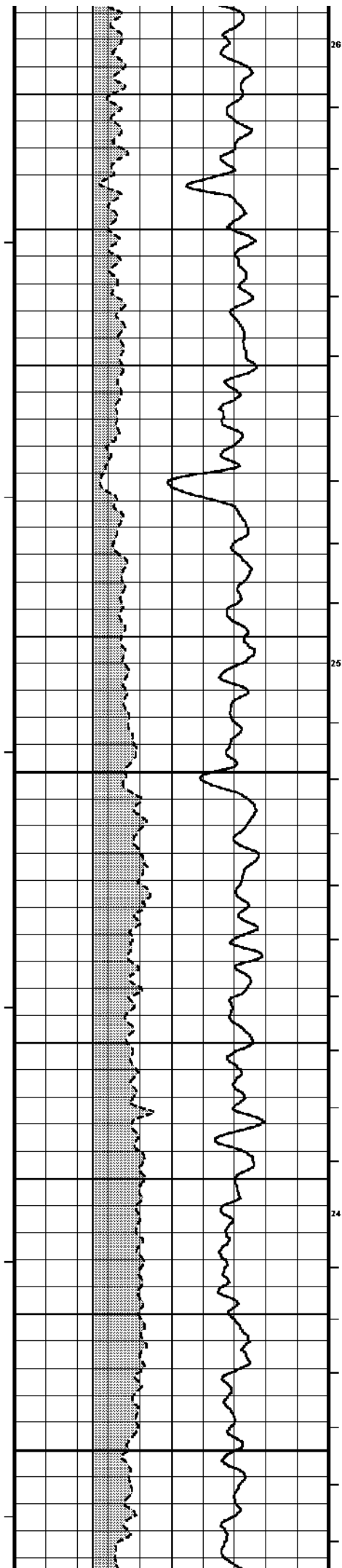
Recorded on 12-APR-2003 01:43



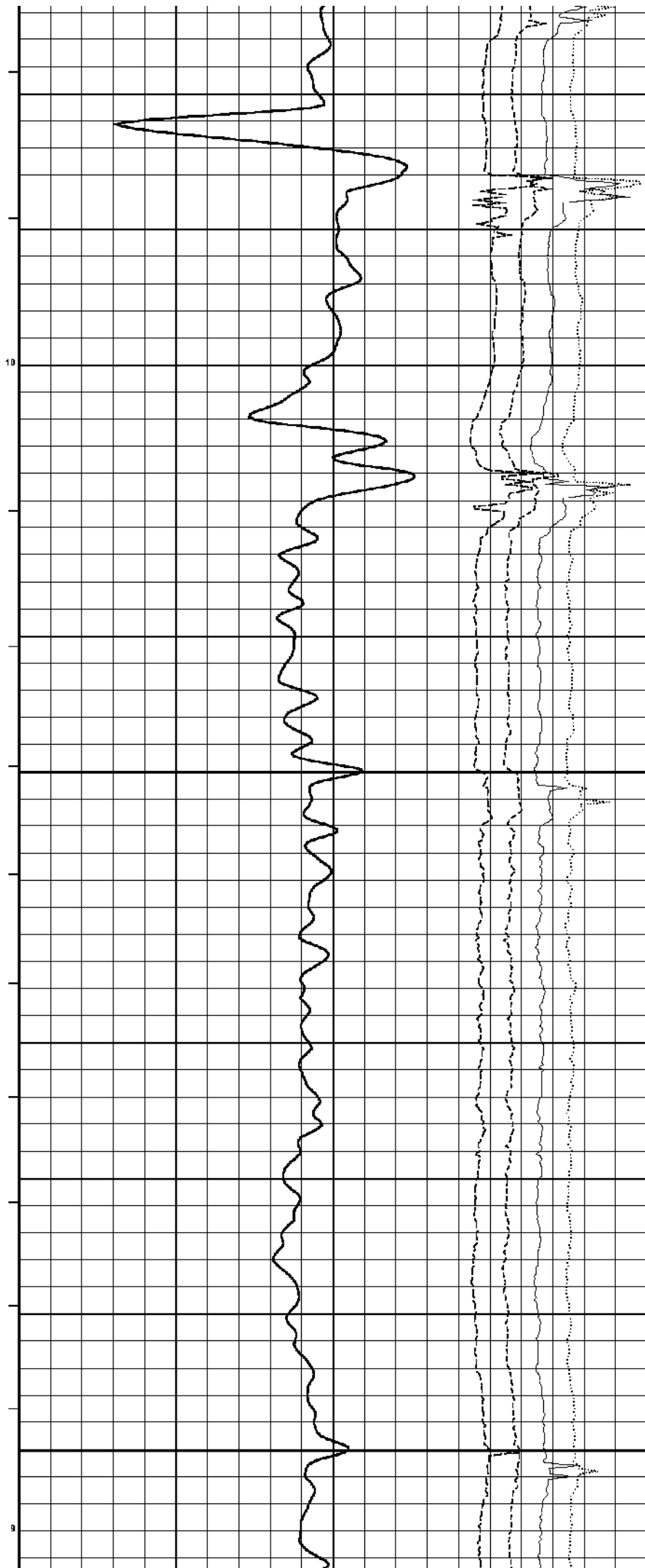


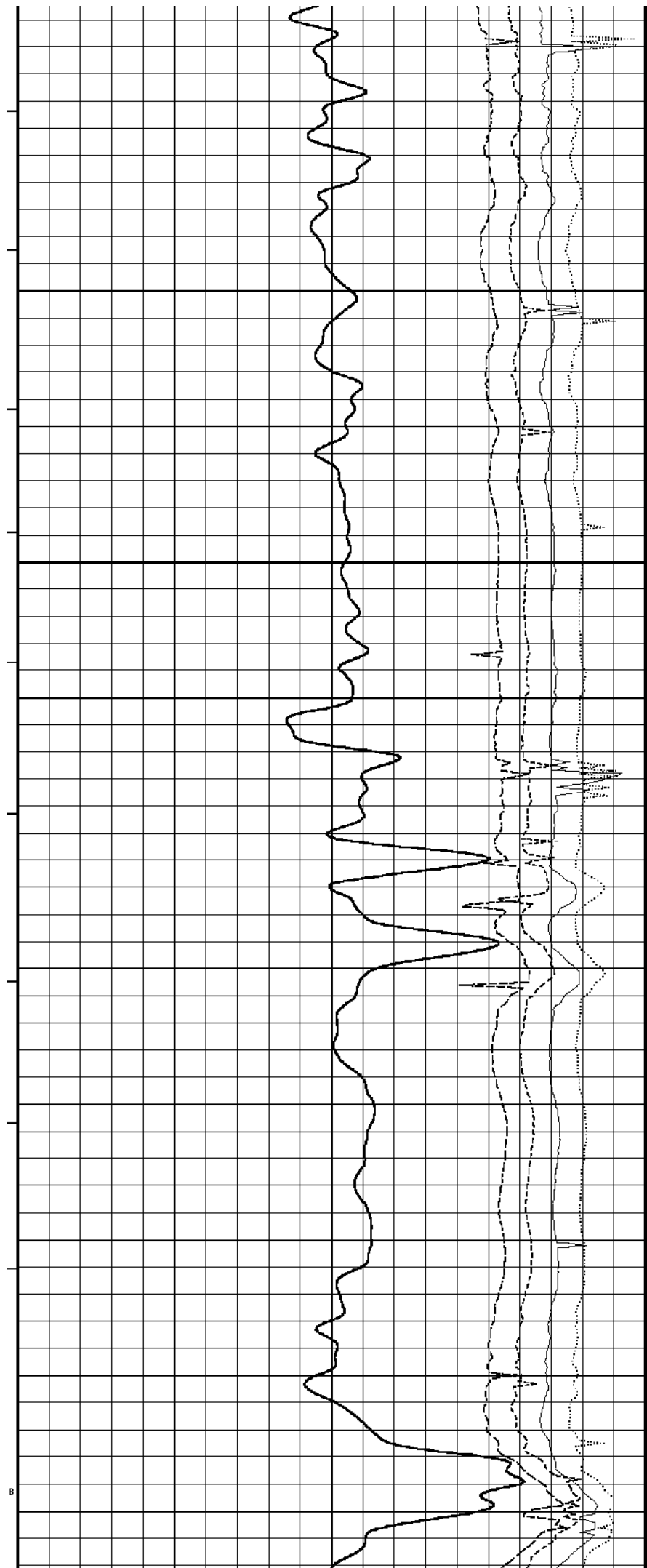
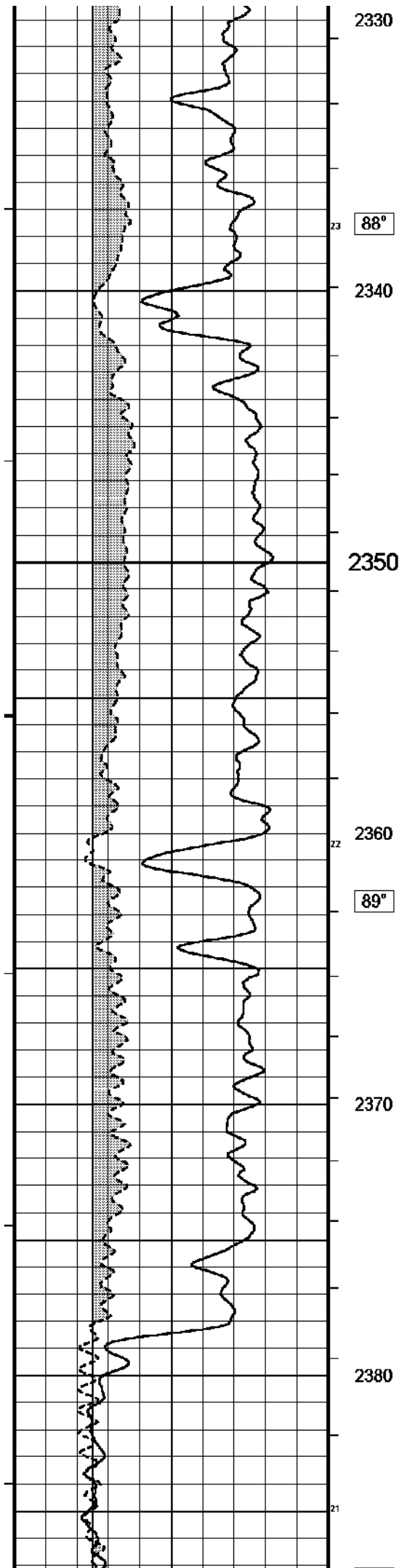


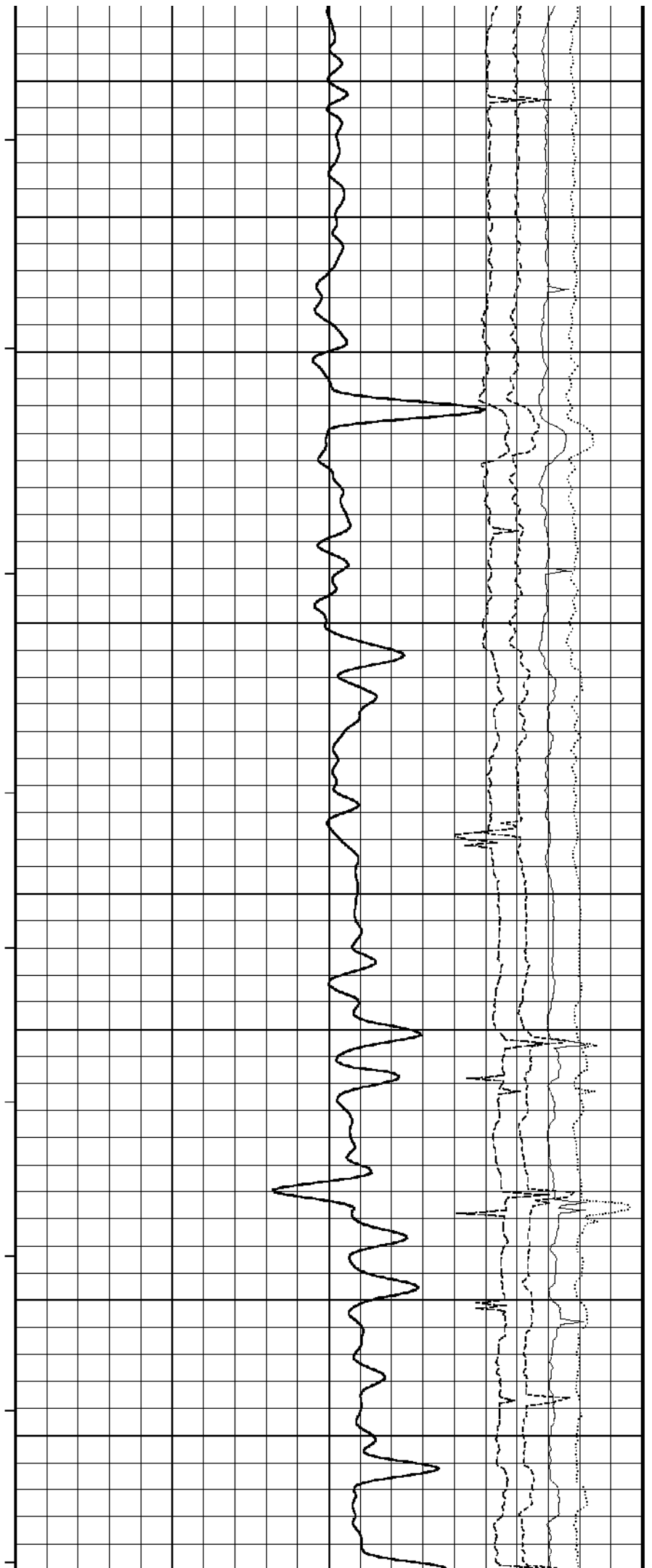
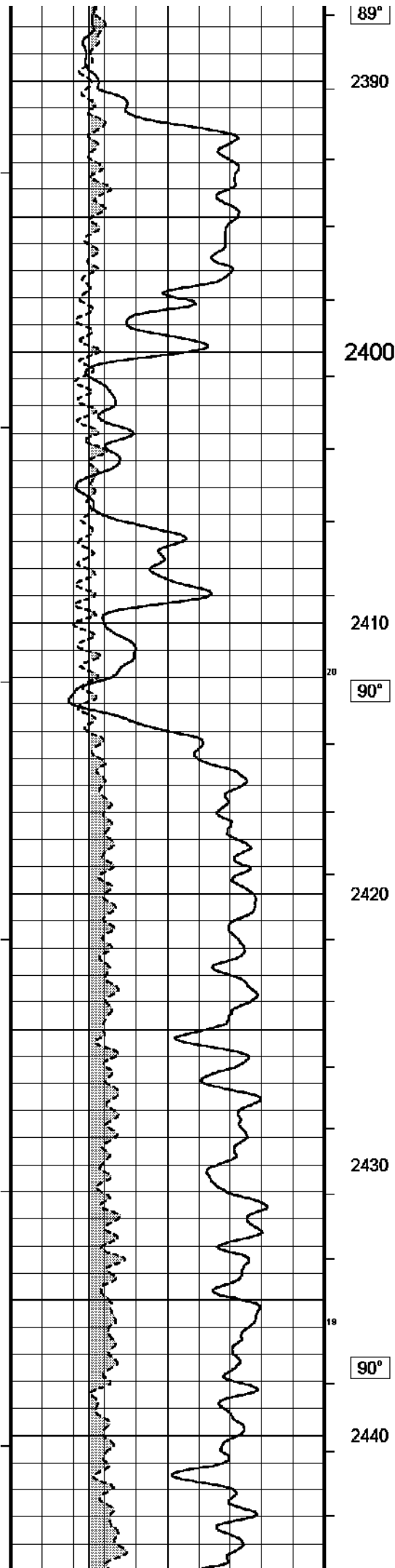


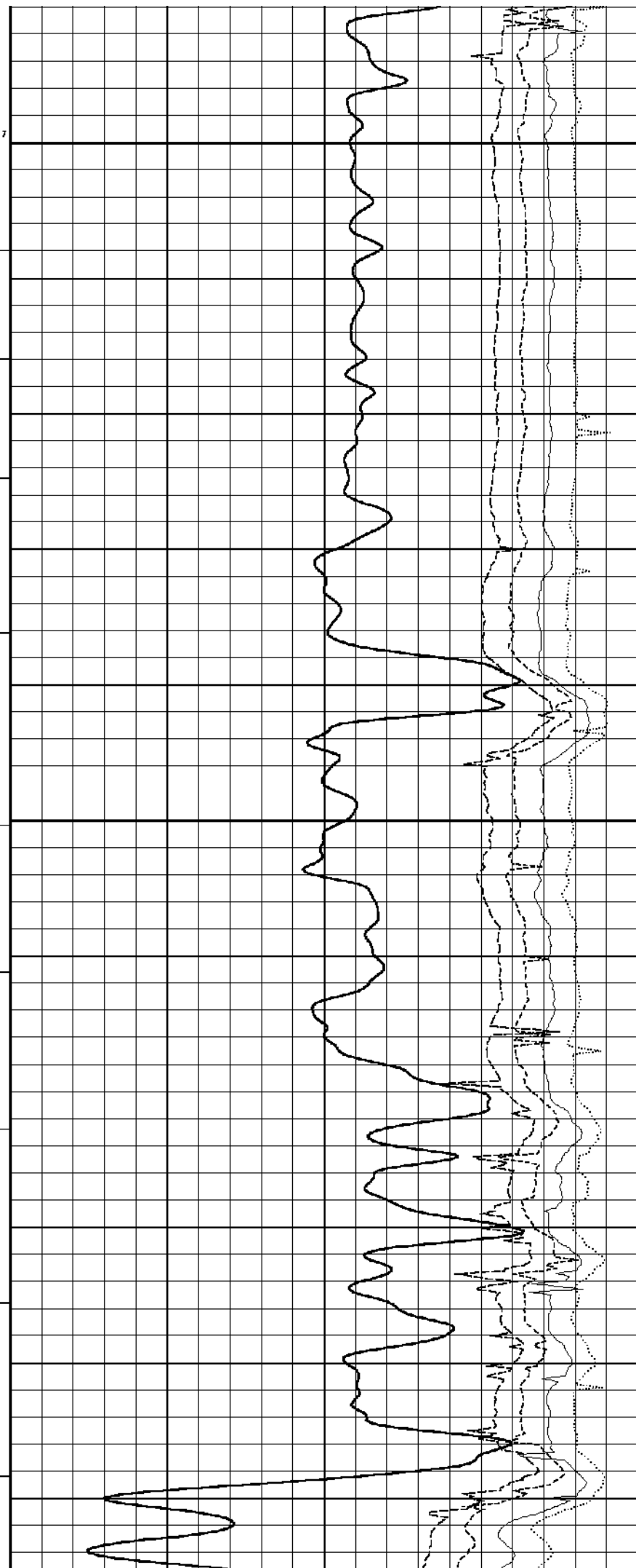
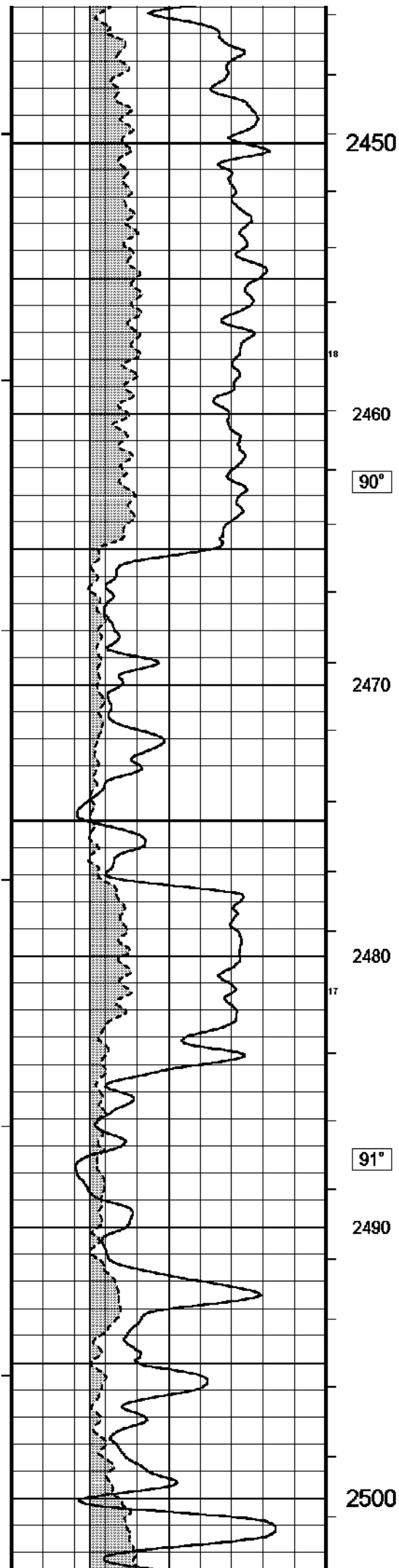


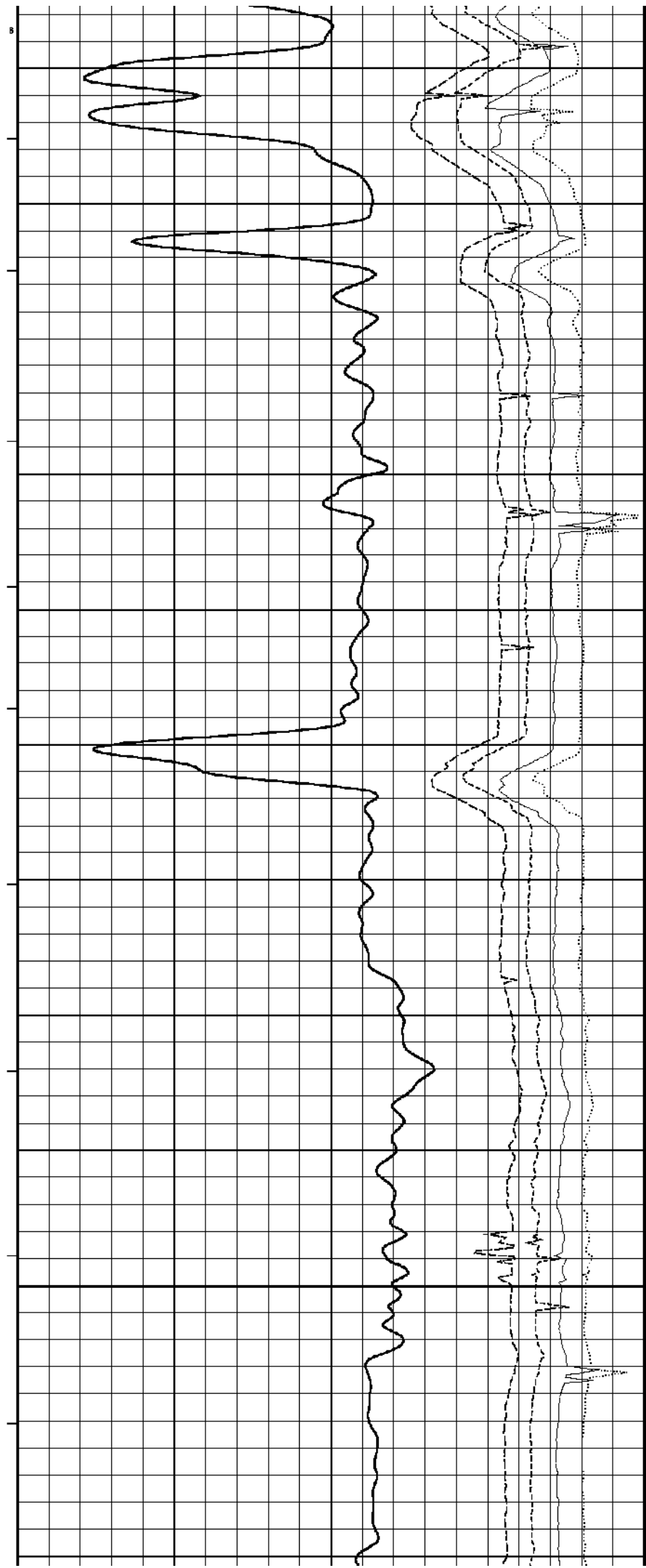
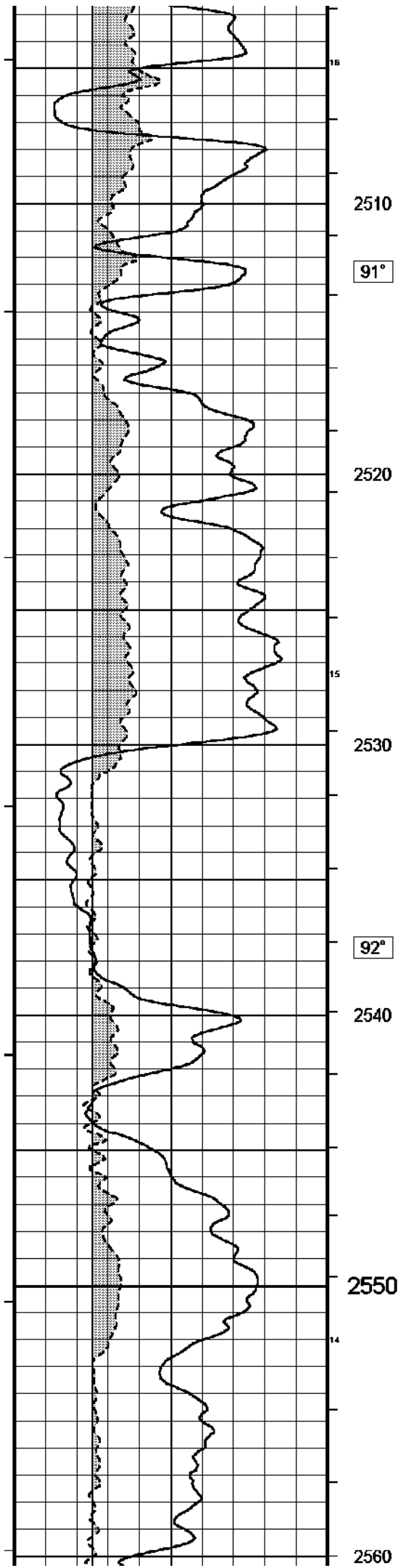
26
2280
86°
2290
25
2300
2310
87°
24
2320

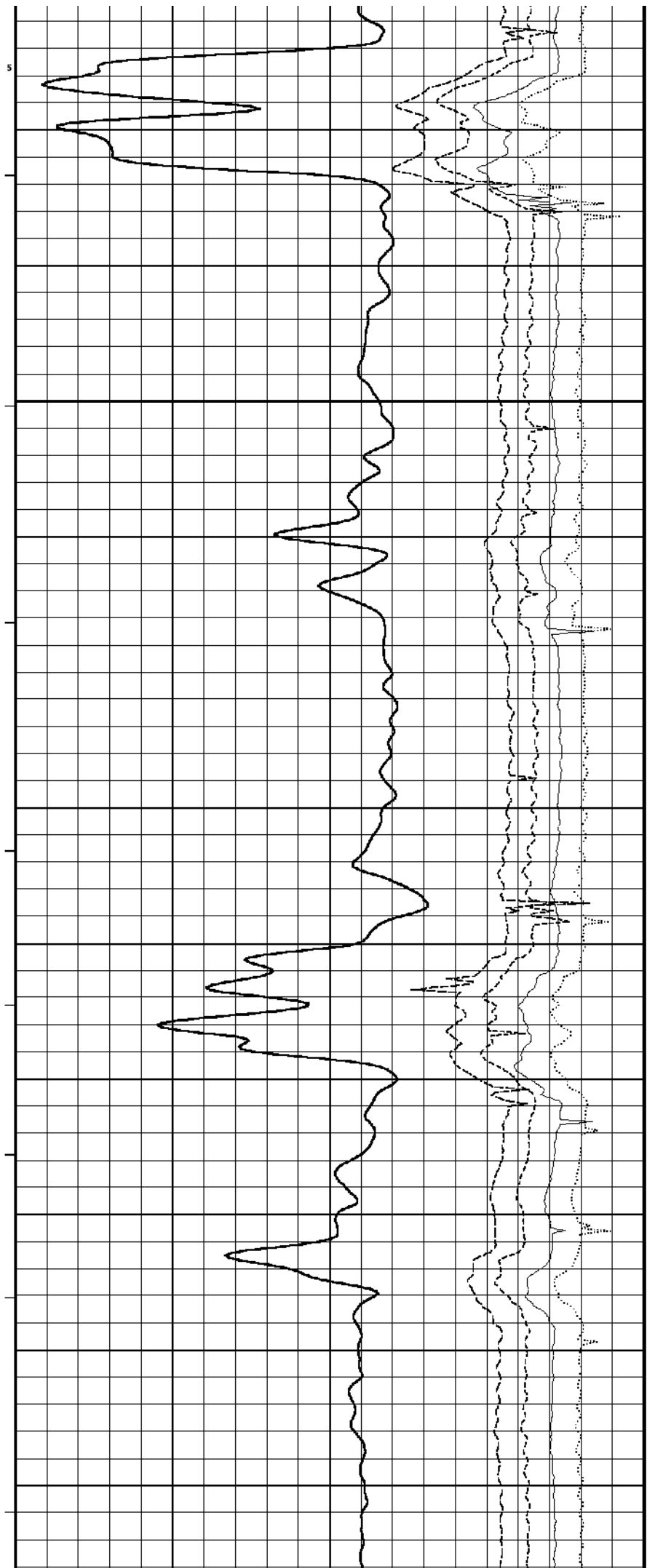
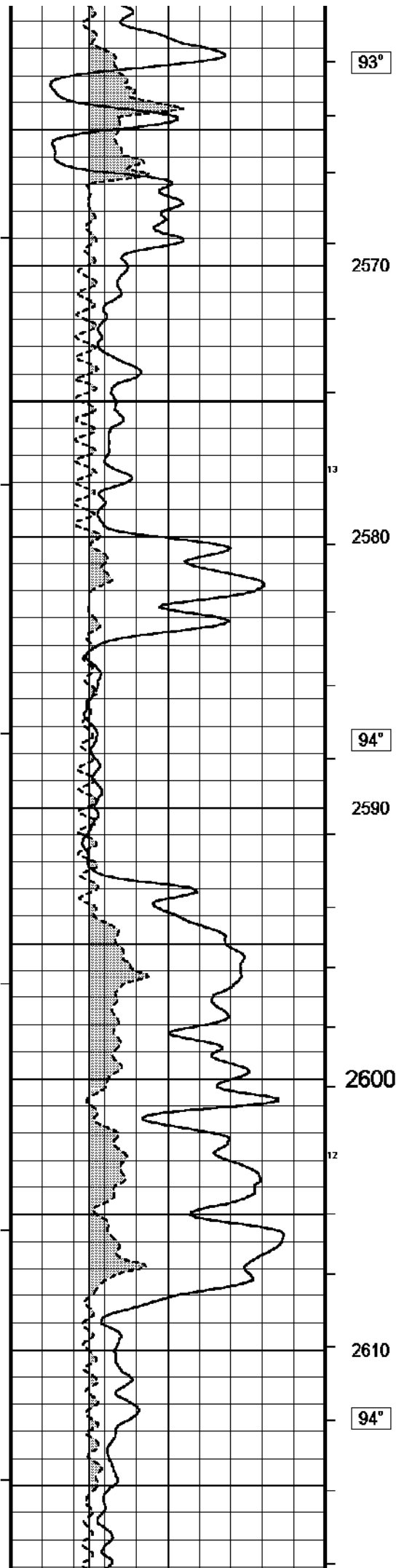


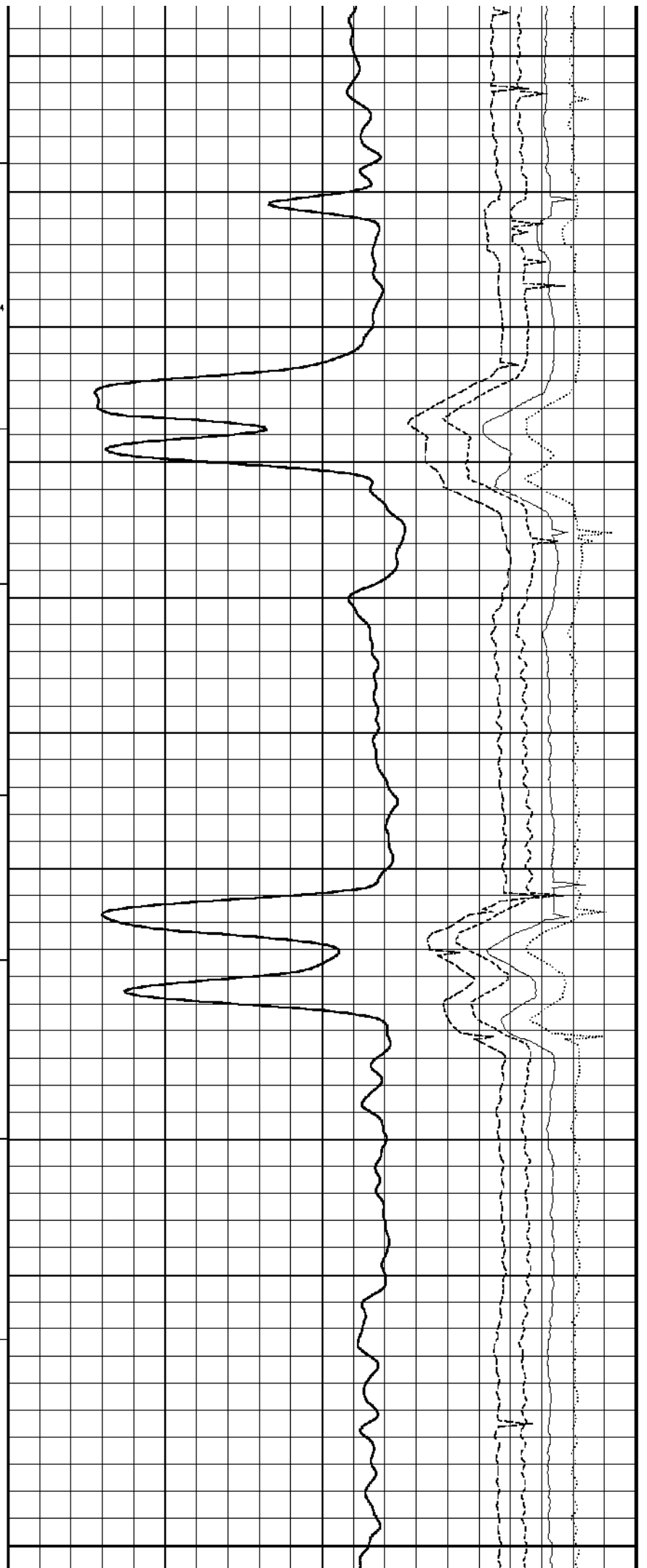
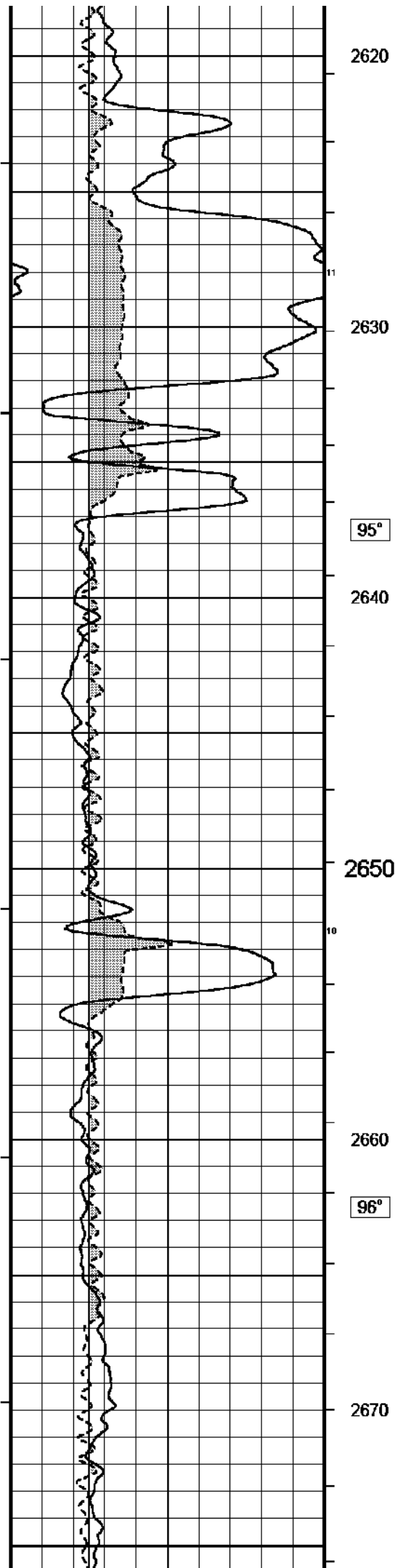


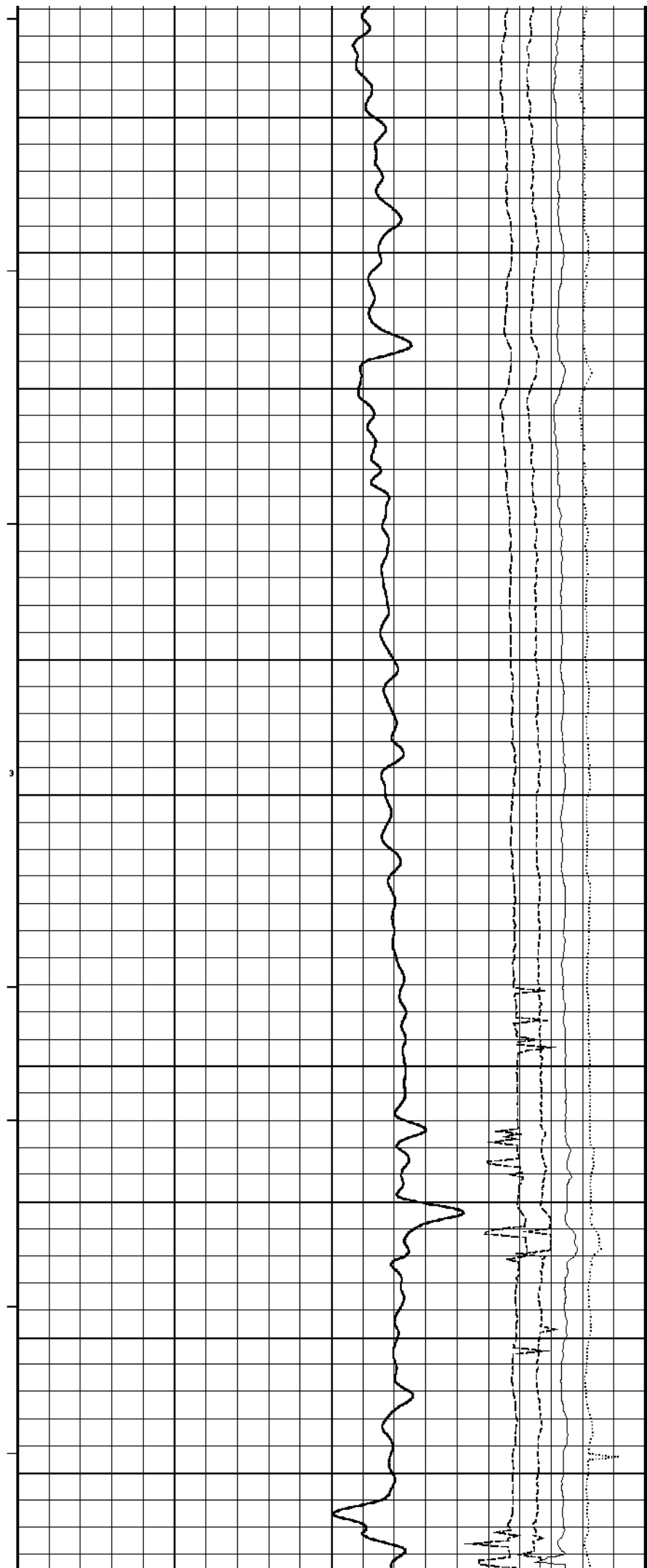
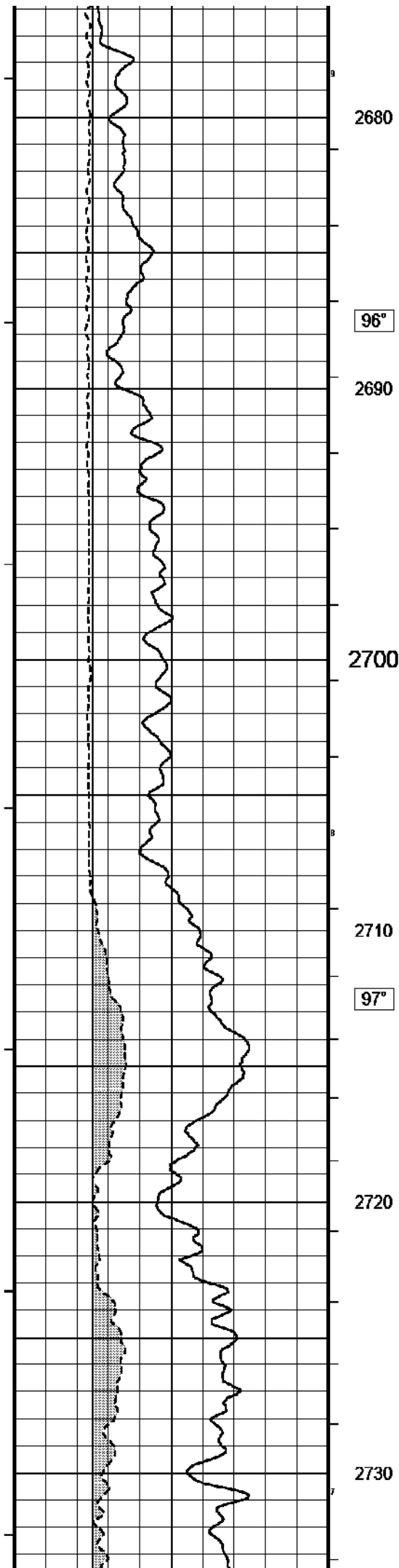


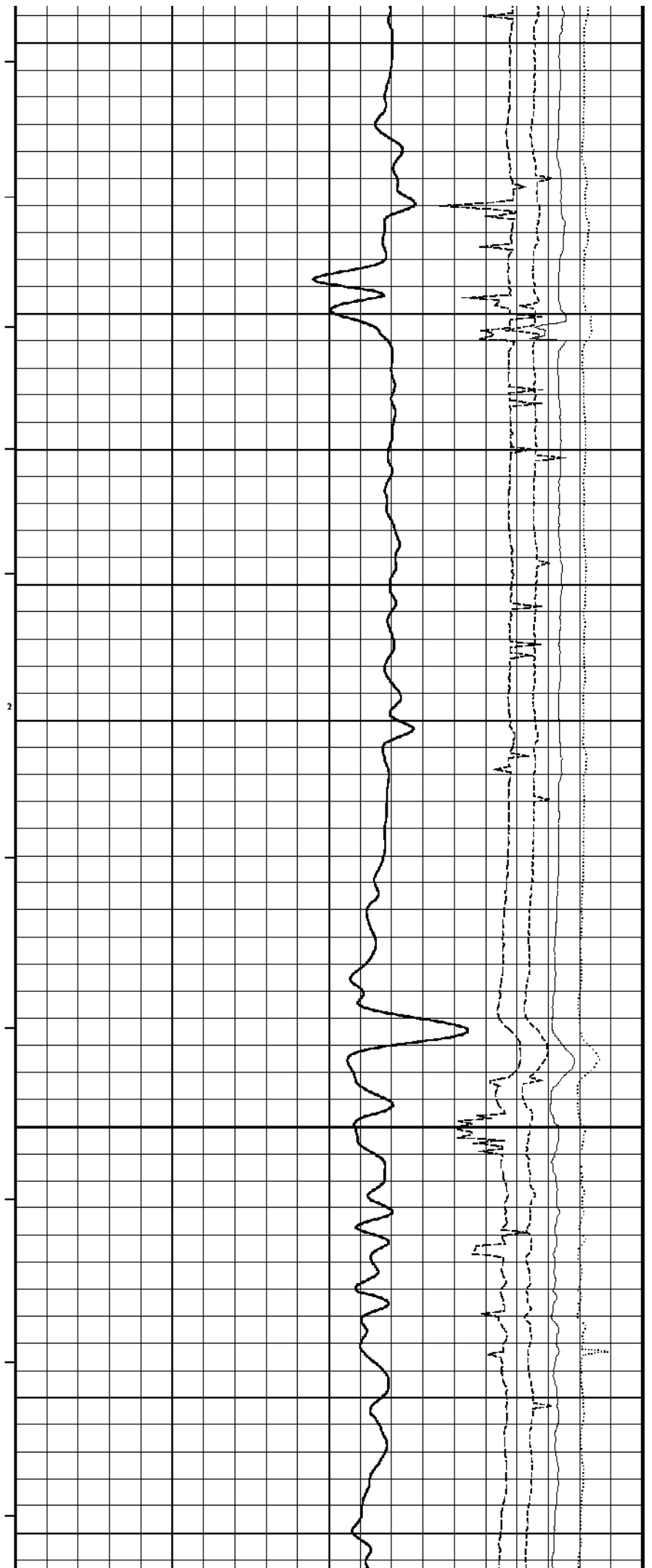
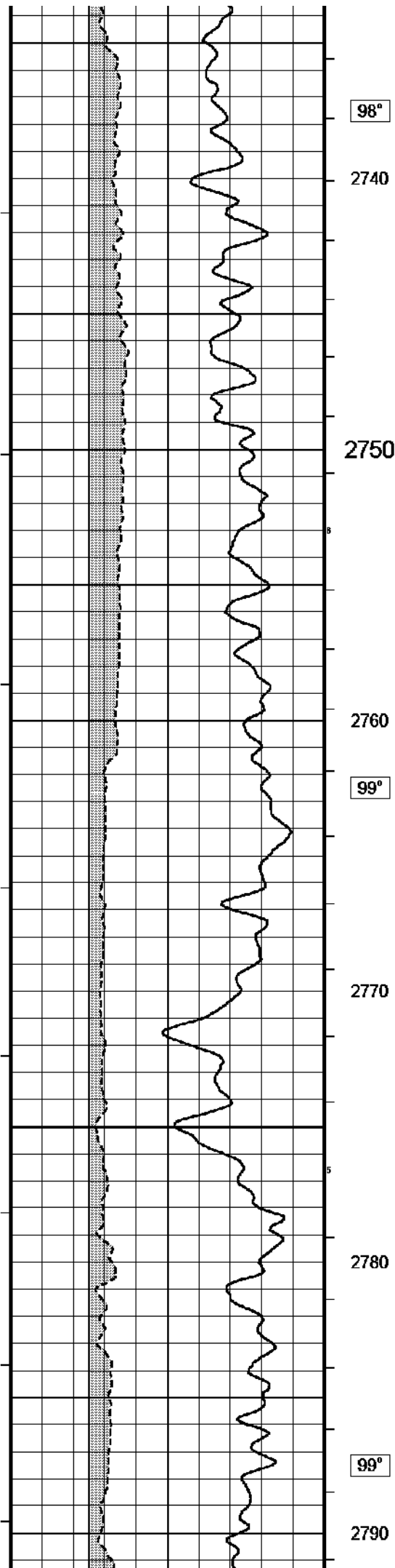


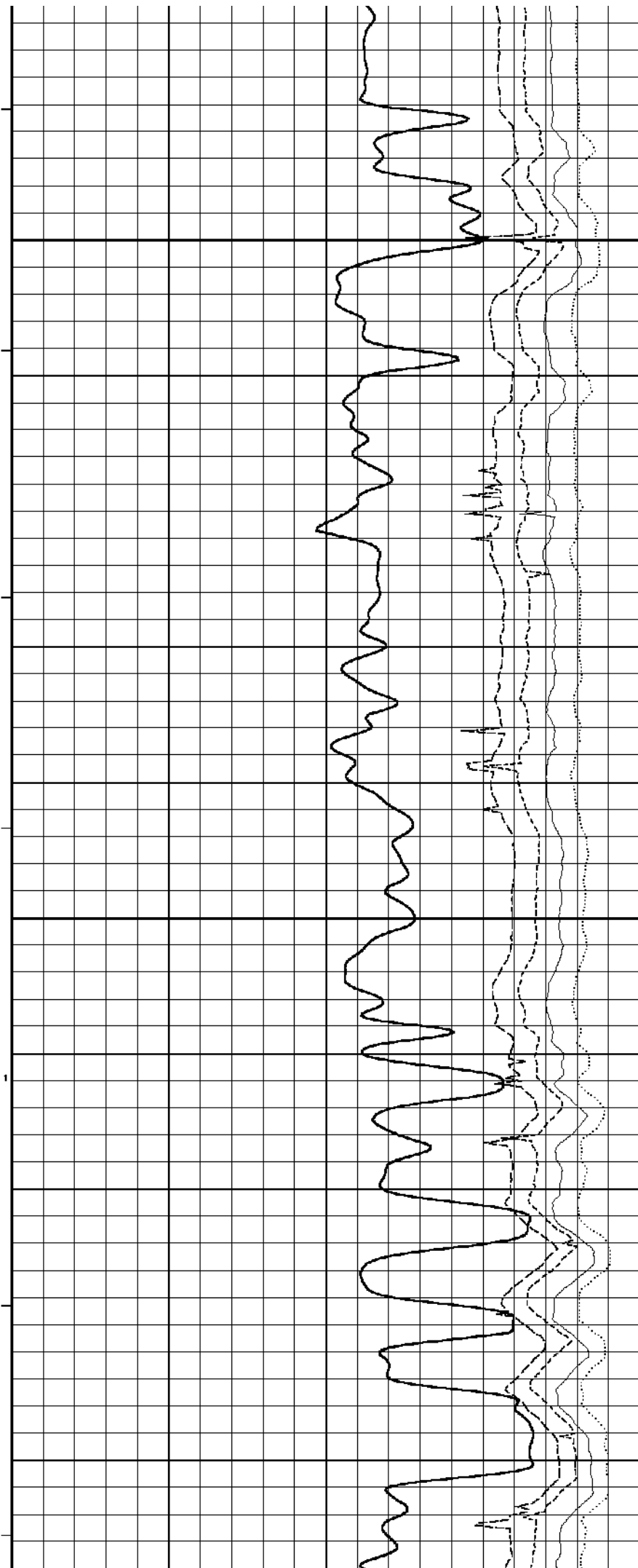
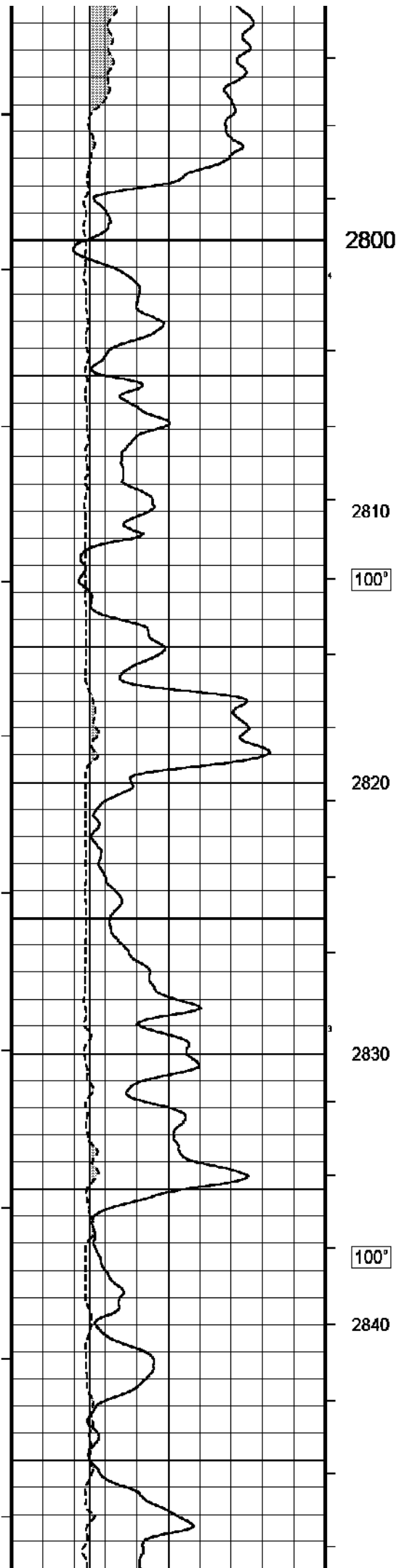


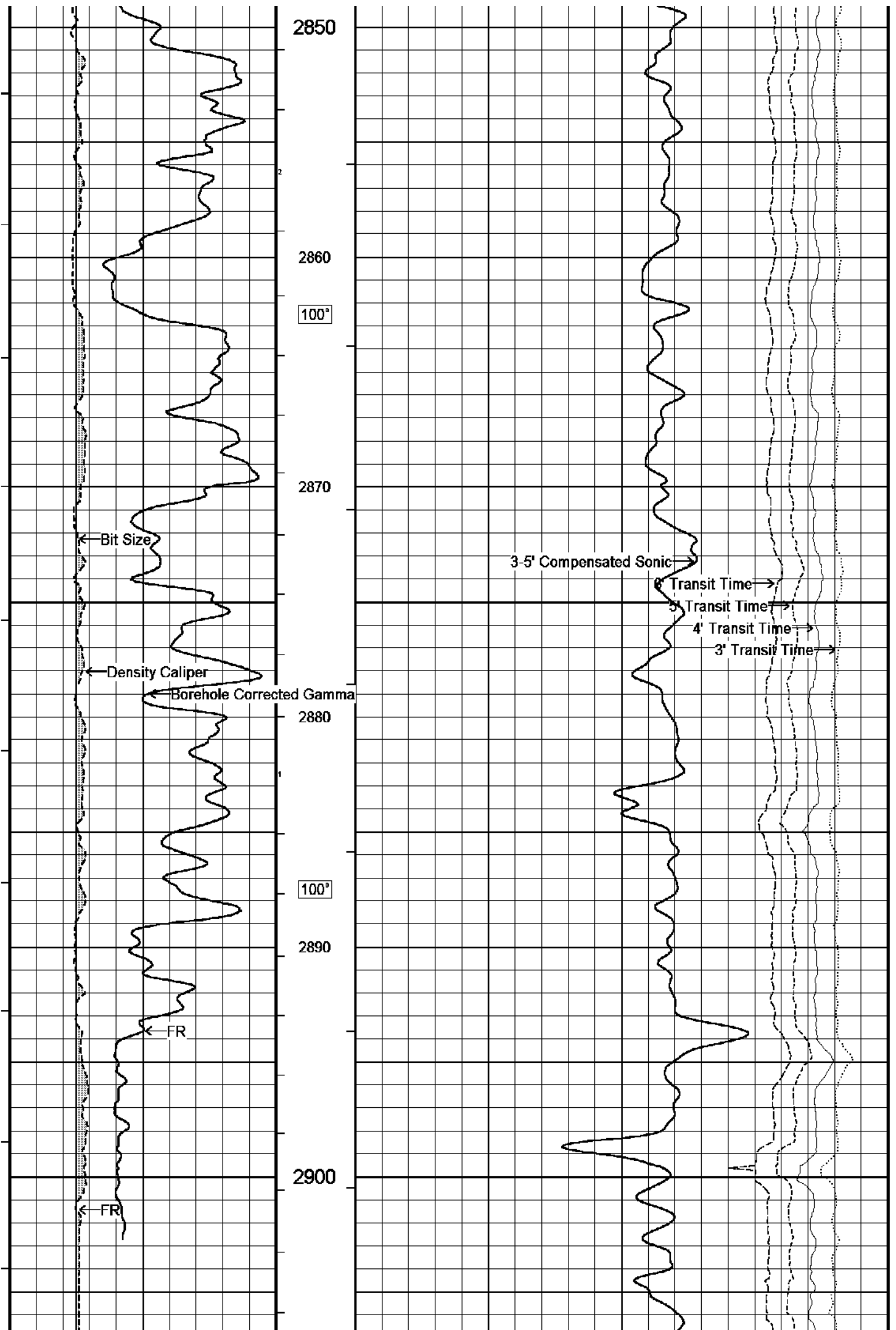


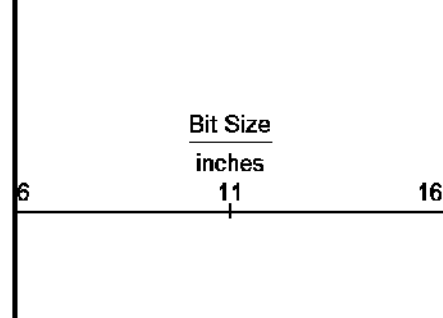
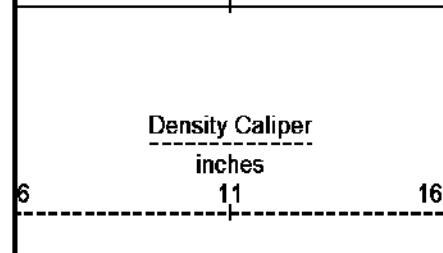
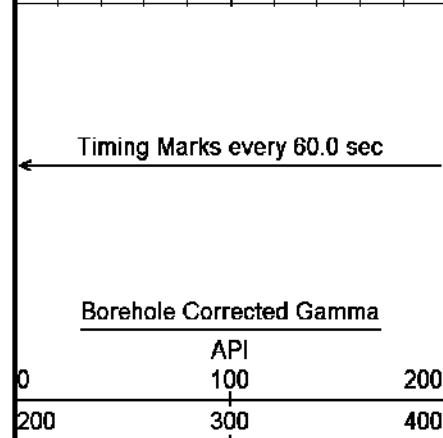
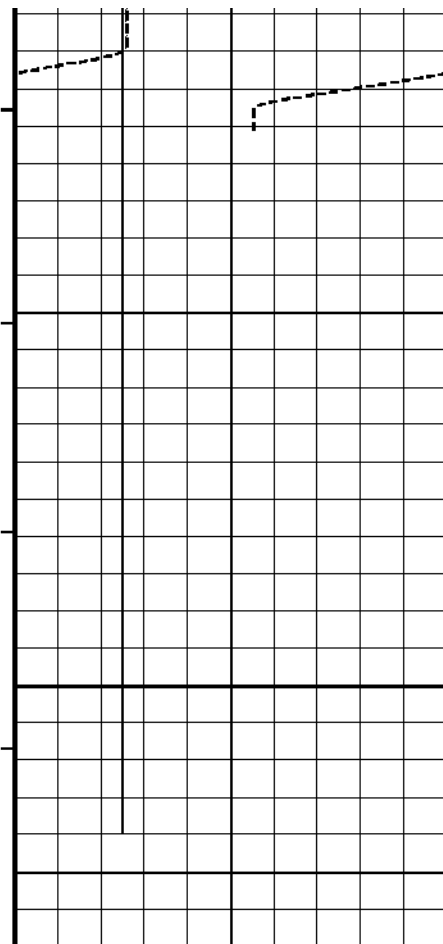












2910

2920

2930

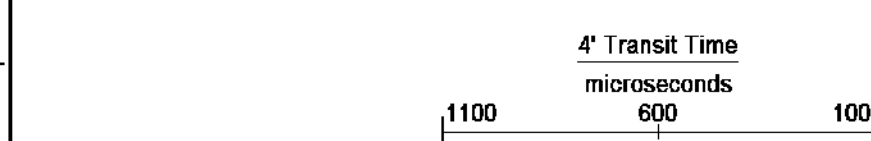
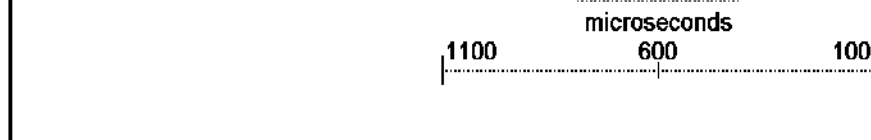
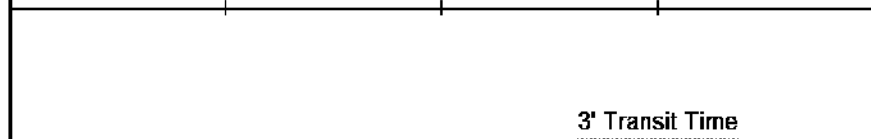
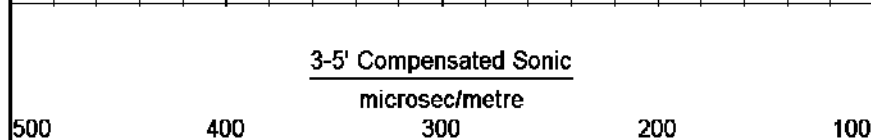
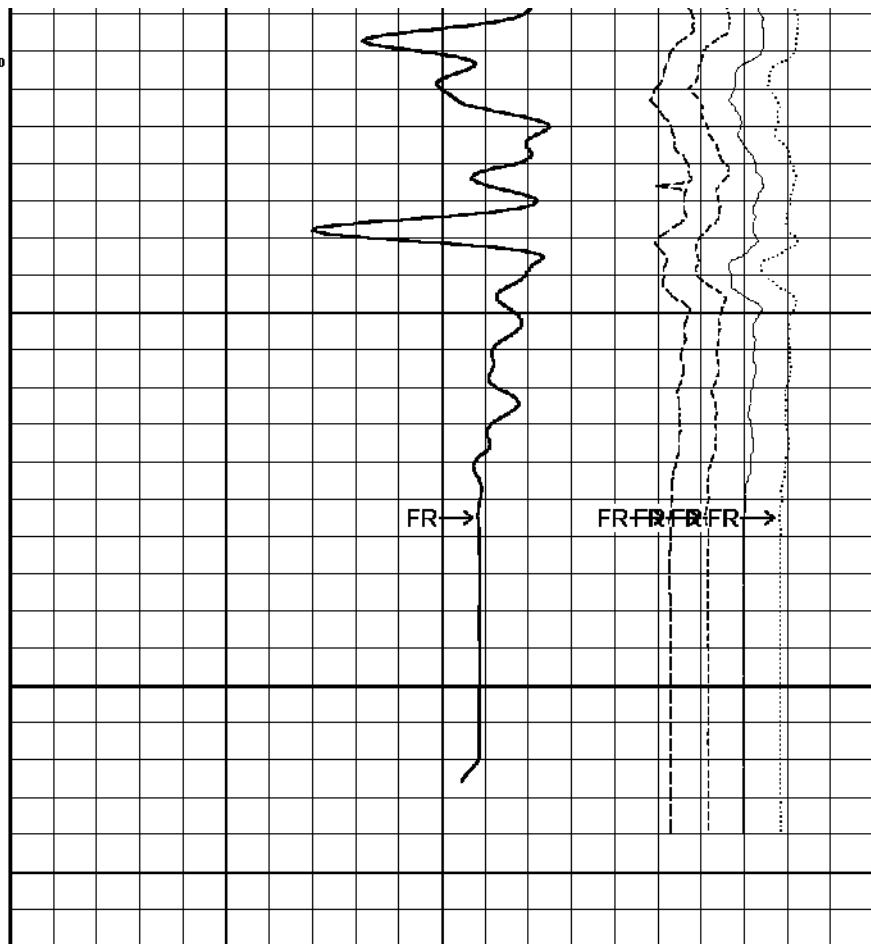
Depth
in
Metres

Borehole
Temp in
deg C

HVI
every
0.1 cu m

Annular
Integral
every
0.1 cu m

Replay
Scale
1:200



Depth Based Data - Maximum Sampling Increment 10.0cm

Filename: C:\Fla a12a\MAIN LOG A DSC.dta

System Configuration Dates: Logged 23-OCT-2002: Processed 23-OCT-2002: Plotted 23-OCT-2002:

Plotted on 26-MAY-2003 14:08

Recorded on 12-APR-2003 01:43

MAIN LOG A 1:200



REPEAT SECTION 1:200



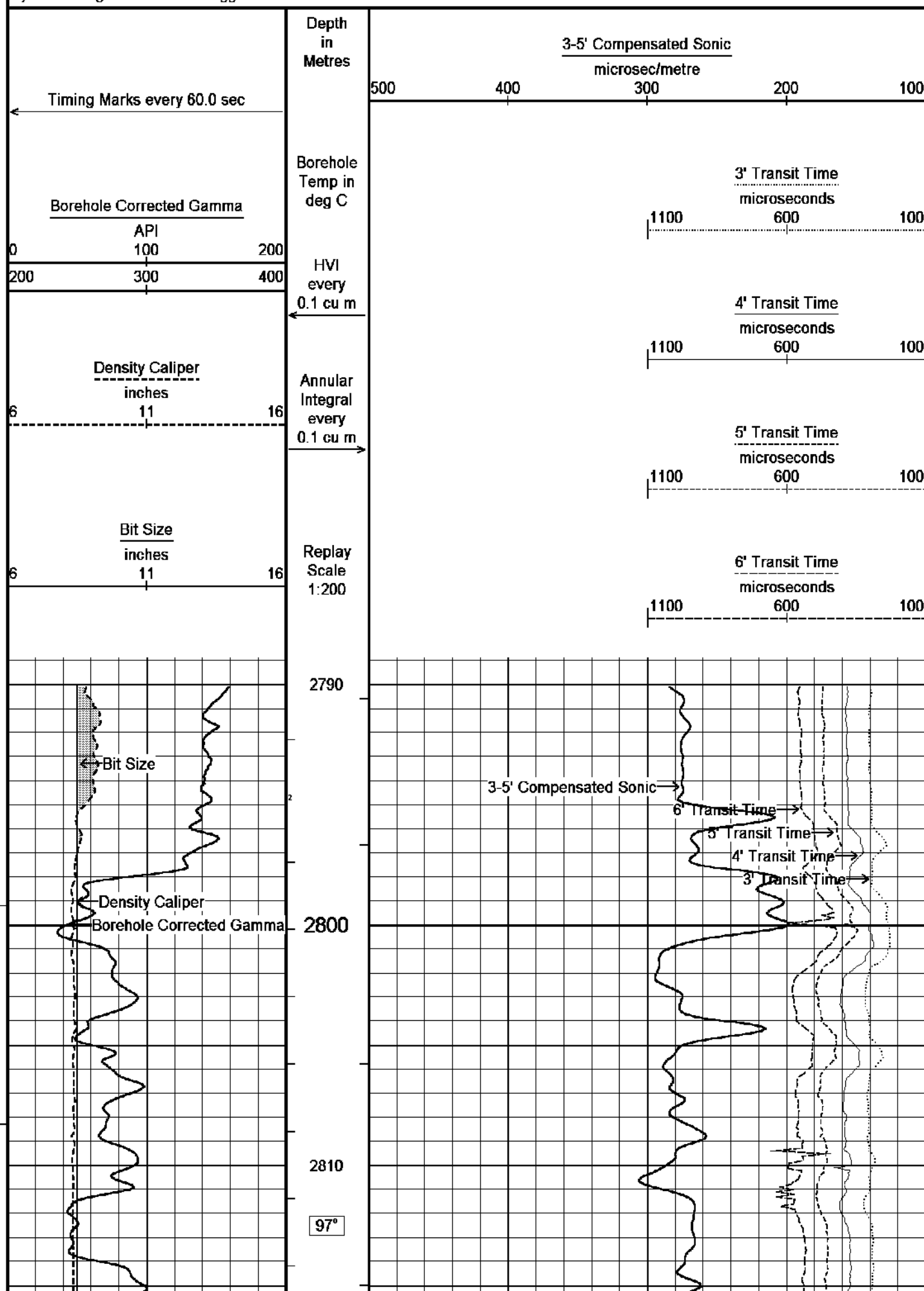
Depth Based Data - Maximum Sampling Increment 10.0cm

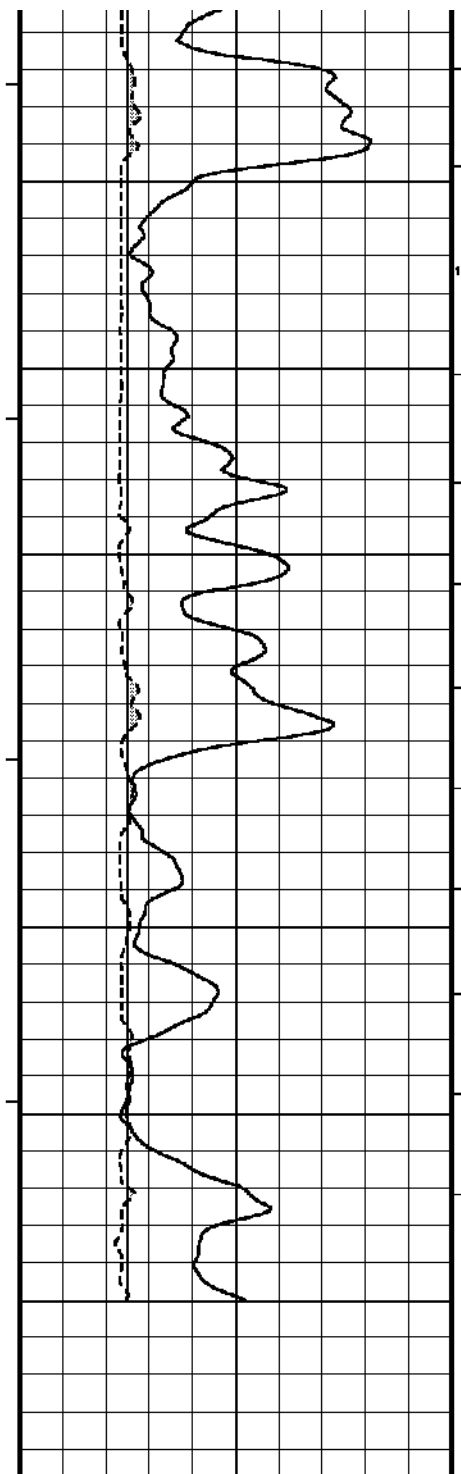
Plotted on 26-MAY-2003 14:08

Filename: C:\Fla a12a\REPEAT SECTION DSC.dta

Recorded on 12-APR-2003 01:08

System Configuration Dates: Logged 23-OCT-2002: Processed 23-OCT-2002: Plotted 23-OCT-2002:





2820

2830

97°

2840

2850

Depth
in
Metres

Timing Marks every 60.0 sec

Borehole Corrected Gamma

0	100	200
200	300	400

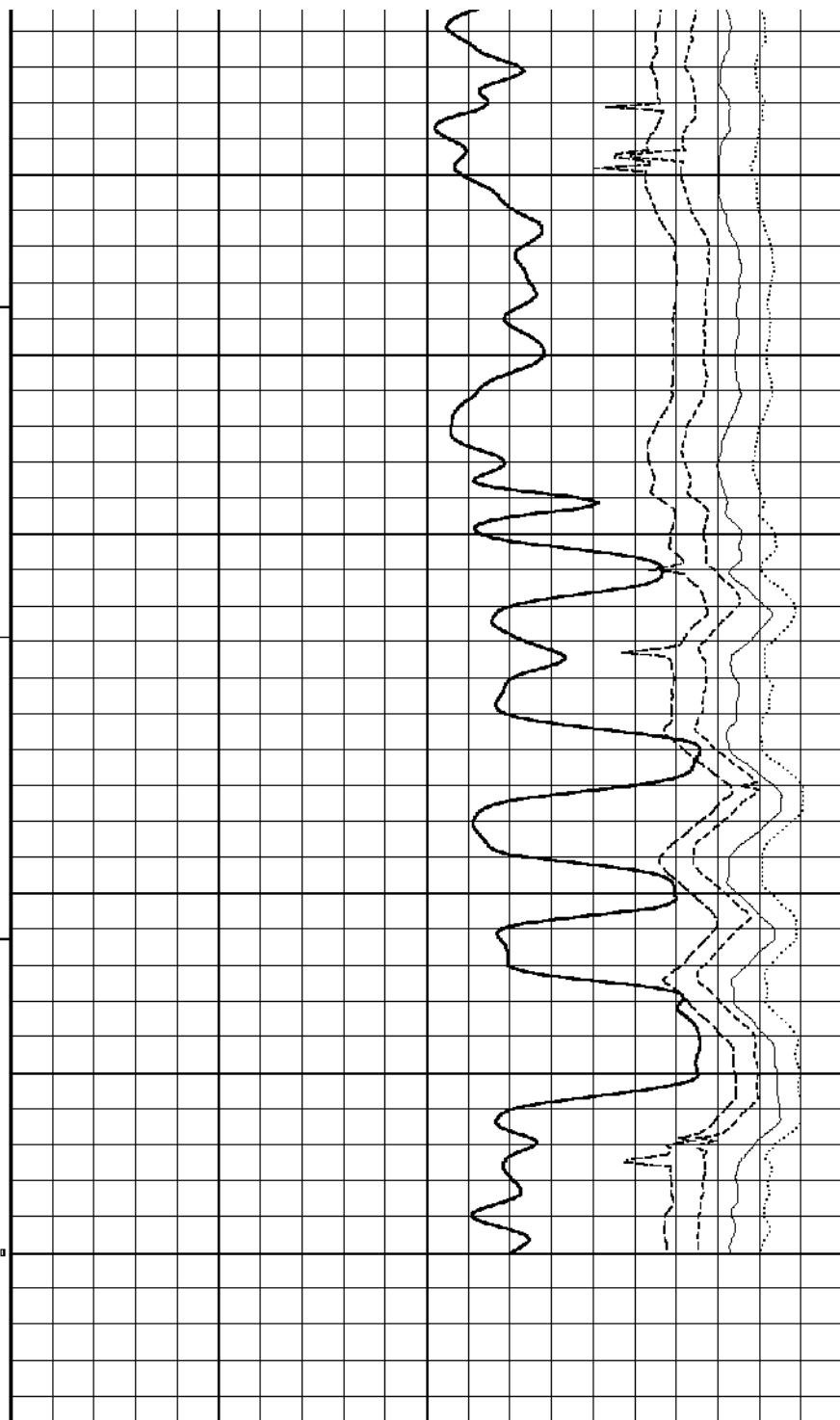
Borehole
Temp in
deg C

HVI
every
0.1 cu m

Density Caliper
inches

6	11	16
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Annular
Integral
every
0.1 cu m



3-5' Compensated Sonic
microsec/metre

500 400 300 200 100

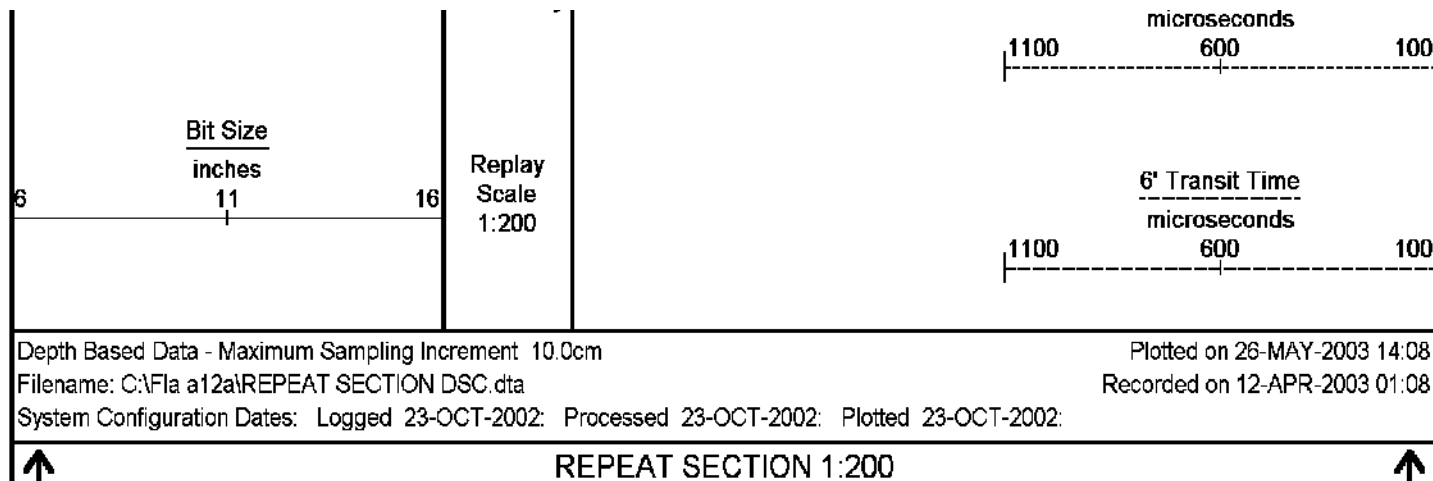
3' Transit Time
microseconds

1100 600 100

4' Transit Time
microseconds

1100 600 100

5' Transit Time



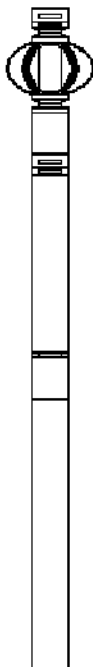
BEFORE SURVEY CALIBRATION			
C:\Fla a12a\MAIN LOG A DSC.dta			
General Constants All 000			
General Parameters			
Mud Resistivity	0.05	ohm-metres	
Mud Resistivity Temperature	100.00	degrees C	
Water Level	0.00	metres	
Density/Neutron Processing	Wet Hole		
Hole/Annular Volume and Differential Caliper Parameters			
HVOL Caliper 1	Density Caliper		
HVOL Caliper 2	Density Caliper		
Annular Volume Diameter	7.00	inches	
Caliper for Differential Caliper	Density Caliper		
Rwa Parameters			
Porosity used	Limestone Sonic Porosity		
Resistivity used	Deep Laterolog		
RWA Constant A	0.61		
RWA Constant M	2.15		
Gamma Calibration MCG 076			
			Field Calibration on 7-APR-2003,14:34
	Measured	Calibrated (API)	
Background	16	10	
Calibrator (Gross)	1432	919	
Calibrator (Net)	1416	909	
Gamma Constants MCG 076			
Gamma Calibrator Number	60		
Mud Density	1.19	gm/cc	
Caliper Source for Processing	Density Caliper		
Tool Position	Eccentred		
Concentration of KCl	0.00	kppm	
High Resolution Temperature Calibration MCG 076			
			Field Calibration on 19-FEB-2003,09:40
	Measured	Calibrated(Deg C)	
Lower	0.00	0.00	
Upper	100.00	100.00	
High Resolution Temperature Constants MCG 076			
Pre-filter Length	11		
Caliper Calibration MPD 067			
			Base Calibration on 12-APR-2003,03:34
Field Calibration on			
Base Calibration			
Reading No	Measured	Calibrator Size (in)	
1	14809	4.61	
2	24384	6.59	
3	34304	8.58	
4	44327	10.54	
5	55504	12.61	

6	N/A	N/A
Field Calibration	0 0.00	0 0.00
Sonic Constants MSS 028		
Maximum Boundary Contrast	328.08	micro-sec/m
Fluid Transit Time	620.08	micro-sec/m
Limestone Transit Time	155.84	micro-sec/m
Sandstone Transit Time	182.09	micro-sec/m
Dolomite Transit Time	142.72	micro-sec/m
Sonic used for Porosities	3-5' Compensated Sonic	
Correction for Sonde Skew	Applied	
Cycle Stretch Algorithm	Applied	
MN3FT	N/A	micro-sec
MX3FT	N/A	micro-sec
Fixed Gate Parameters		
Start Time (micro-sec)	End Time (micro-sec)	Discriminator (mV)
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
Down Hole Fixed Gate Parameters		
Gate Start	N/A	micro-sec
Gate Width	N/A	micro-sec
Full Waveform Parameters		
Use derived TR for 3' Waveform	N/A	
Use derived TR for 4' Waveform	N/A	
Use derived TR for 5' Waveform	N/A	
Use derived TR for 6' Waveform	N/A	
3' Waveform Discriminator Level	N/A	mV
4' Waveform Discriminator Level	N/A	mV
5' Waveform Discriminator Level	N/A	mV
6' Waveform Discriminator Level	N/A	mV
3' Waveform Filter	N/A	
4' Waveform Filter	N/A	
5' Waveform Filter	N/A	
6' Waveform Filter	N/A	

DOWNHOLE EQUIPMENT
All measurements relative to tool zero.

Compact Inline Standoff B
MIS 52 Length: 0.65 m Weight: 15.43 lb

Compact Stiff Bridle Electrode Sub.
MBE 9 Length: 3.76 m Weight: 94.80 lb



Compact Inline Standoff B
MIS 77 Length: 0.65 m Weight: 15.43 lb

Compact Stiff Bridle Electrode Sub.
MBE 5 Length: 3.76 m Weight: 94.80 lb

31.84 m SPDL - Spontaneous Potential

Compact Inline Standoff B
MIS 31 Length: 0.65 m Weight: 15.43 lb

Compact Gamma
MCG 76 Length: 2.65 m Weight: 63.93 lb

26.85 m GGCE - Borehole Corrected Gamma

25.96 m CGXT - MCG External Temperature

Compact Knuckle Joint
SKJ 46 Length: 0.66 m Weight: 24.25 lb



Compact Swivel Head Adaptor
SHA 27 Length: 0.83 m Weight: 26.46 lb

Compact Inline Bowspring A
MIS 24 Length: 1.74 m Weight: 33.07 lb

Compact Neutron
MDN 69 Length: 1.53 m Weight: 50.71 lb

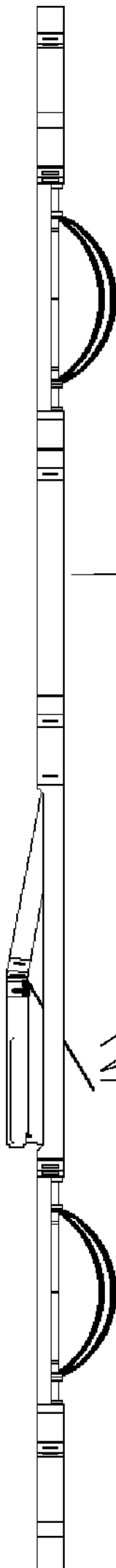
21.75 m NPRL - Limestone Neutron Por.

Compact Density/Caliper
MPD 67 Length: 2.92 m Weight: 90.39 lb

19.07 m CLDC - Density Caliper
18.85 m DCOR - Density Correction
18.85 m DEN - Compensated Density
18.83 m PDPE - PE

Compact Inline Bowspring A
MIS 25 Length: 1.74 m Weight: 33.07 lb

Compact Swivel Head Adaptor
SHA 28 Length: 0.83 m Weight: 26.46 lb



Compact Knuckle Joint
SKJ 45 Length: 0.66 m Weight: 24.25 lb

Compact Inline Standoff B
MIS 53 Length: 0.65 m Weight: 15.43 lb

Compact Upper Guard Sub.
MUG 17 Length: 2.74 m Weight: 68.34 lb

Compact Inline Standoff B
MIS 49 Length: 0.65 m Weight: 15.43 lb

Compact Laterolog Electrode Sub.
MLE 15 Length: 3.76 m Weight: 92.59 lb

8.93 m DSL - Shallow Laterolog
8.93 m DGL - Deep Laterolog

Compact Inline Standoff B
MIS 76 Length: 0.65 m Weight: 15.43 lb

Compact Micro-Resistivity
MMR 5 Length: 2.62 m Weight: 81.57 lb

