



GAMMA, COMPENSATED SONIC DUAL LATEROLOG

1:200

COMPANY				LAKES OIL N.L.			
WELL				BOOLA BOOLA 2			
FIELD				WILDCAT			
PROVINCE/COUNTY				VICTORIA			
COUNTRY/STATE				AUSTRALIA			
LOCATION				38 08'59" S 146 30' 34" E			
				FINAL PRINT			
LSD	SEC	TWP	RGE	Other Services			
API Number		PEP 166		MPD,MDN			
Permit Number		PEP 166		RSCT			
Permanent Datum MSL				, Elevation 0.0		metres	
Log Measured From KB@45.2m				above Permanent Datum			
Drilling Measured From KB						Elevations: KB 45.20 DF 45.00 GL 40.00	
Date	2-JUL-2007						
Run Number	2						
Depth Driller							
Depth Logger	1713.00			metres			
First Reading	1700.00			metres			
Last Reading	565.00			metres			
Casing Driller	570.00			metres			
Casing Logger	569.70			metres			
Bit Size	8.50			inches			
Hole Fluid Type	KCL						
Density / Viscosity	1.27 g/cc		12.00 CP				
PH / Fluid Loss	8.00		16.00 ml/30Min				
Sample Source	SUCTION						
Rm @ Measured Temp	0.62 @ 25.0			ohm-m			
Rmf @ Measured Temp	0.46 @ 25.0			ohm-m			
Rmc @ Measured Temp	1.07 @ 25.0			ohm-m			
Source Rmf / Rmc	MEAS		MEAS				
Rm @ BHT	0.299 @ 74.0		ohm-m				
Time Since Circulation	6 Hrs						
Max Recorded Temp	74.00		deg C				
Equipment Name	MSS,MLL						
Equipment / Base	HSU2		SALE				
Recorded By	R L TENCH						
Witnessed By	T O'BRIEN						
On Bottom	14:00						

FINAL PRINT

REMARKS

1. Century Rig #11
2. Fish in Hole, TD 1887m Top of Fish 1718m
3. Chlorides 56 ppm
4. Maximum Deviation 31 @ 1354m

BOREHOLE RECORD

Last Edited: 15-JAN-2008 15:03

Bit Size inches	Depth From metres	Depth To metres
8.500	570.00	1887.00

CASING RECORD

Type	Size inches	Depth From metres	Shoe Depth metres	Weight pounds/ft
SURFACE	9.625	0.00	570.00	36.00

AFTER SURVEY CALIBRATION

C:\Data\LakesOil\Boola Boola 2\FFD\DPK\MSSMLL_001.dta

Laterolog Check MLE 031

Before Survey Check on 2-JUL-2007 12:08

After Survey Check on 2-JUL-2007 15:55

Channel	Before Survey (ohm-m)	After Survey (ohm-m)
Shallow	49.0	49.0
Deep	31.5	31.5
Groningen	364.7	364.7

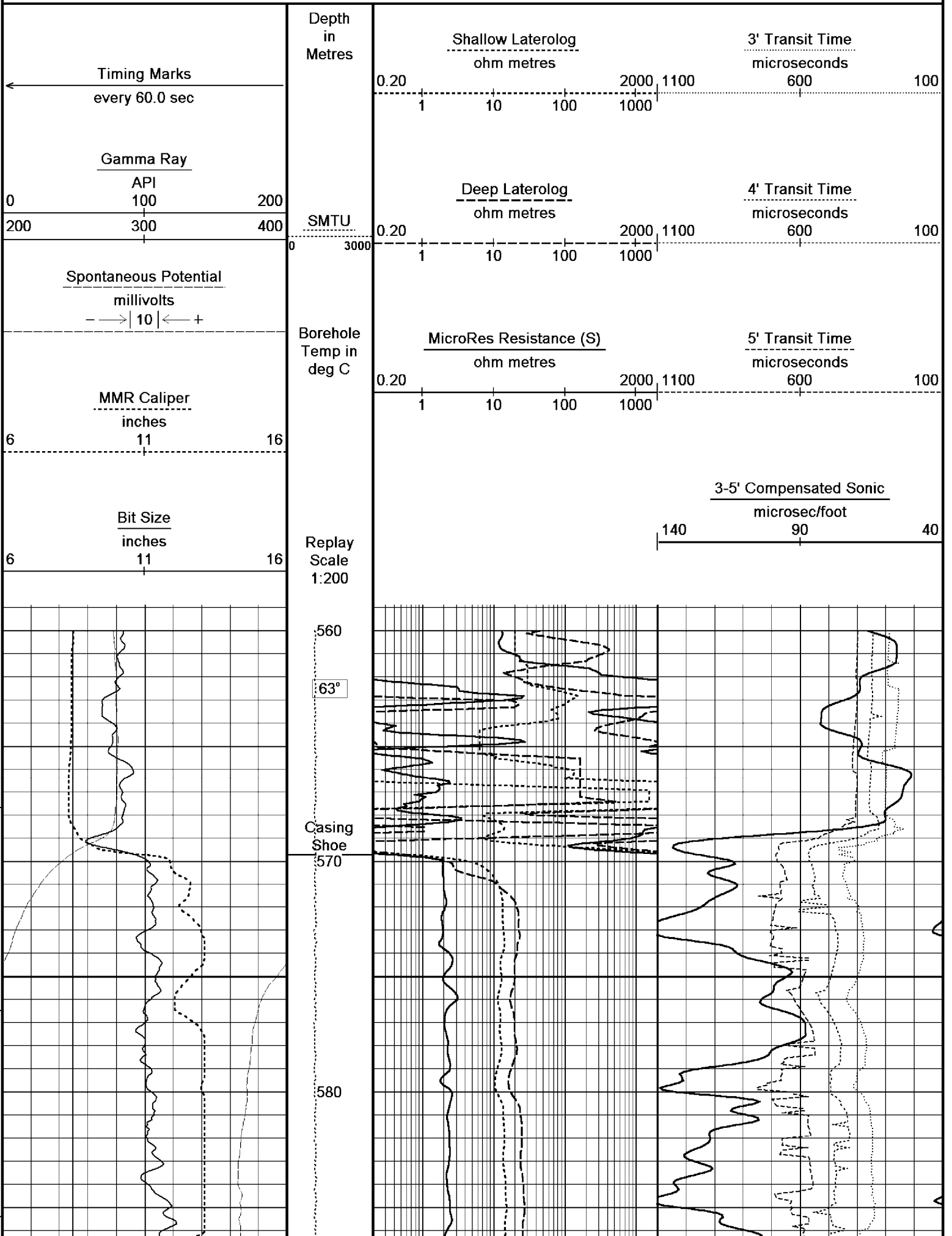
Micro Laterolog Check MMR 042

Before Survey Check on 2-JUL-2007 12:10

After Survey Check on 2-JUL-2007 15:57

Before Survey (ohm-m)	After Survey (ohm-m)
5.2	5.2

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



← Bit Size

← MMR Caliper

MicroRes Resistance (S) →

← Spontaneous Potential

Deep Laterolog →

Shallow Laterolog →

3-5' Compensated Sonic →

5' Transit Time →

4' Transit Time →

3' Transit Time →

← Gamma Ray

63°

590

600

610

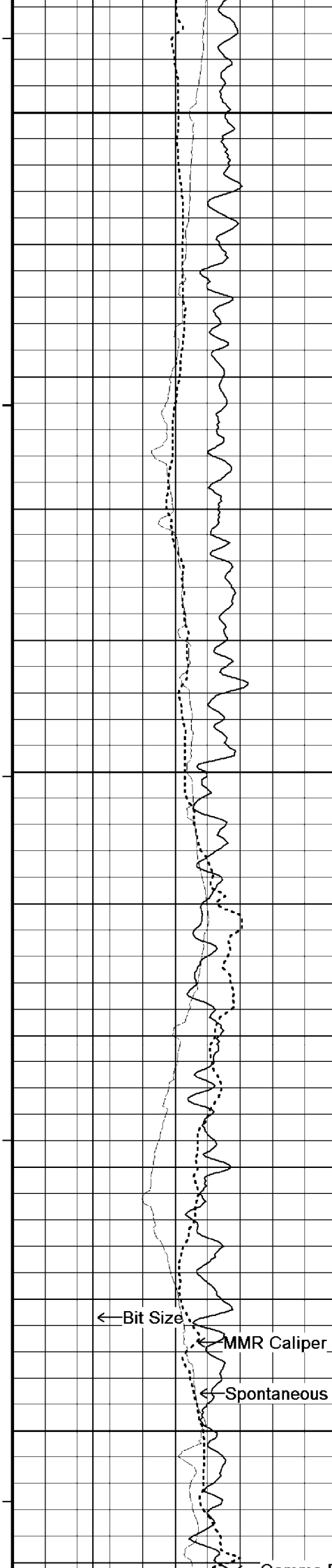
63°

620

630

63°

640



650

660

63°

670

680

64°

690

← Bit Size

← MMR Caliper

← Spontaneous Potential

700

MicroRes Resistance (S) →

Deep Laterolog →

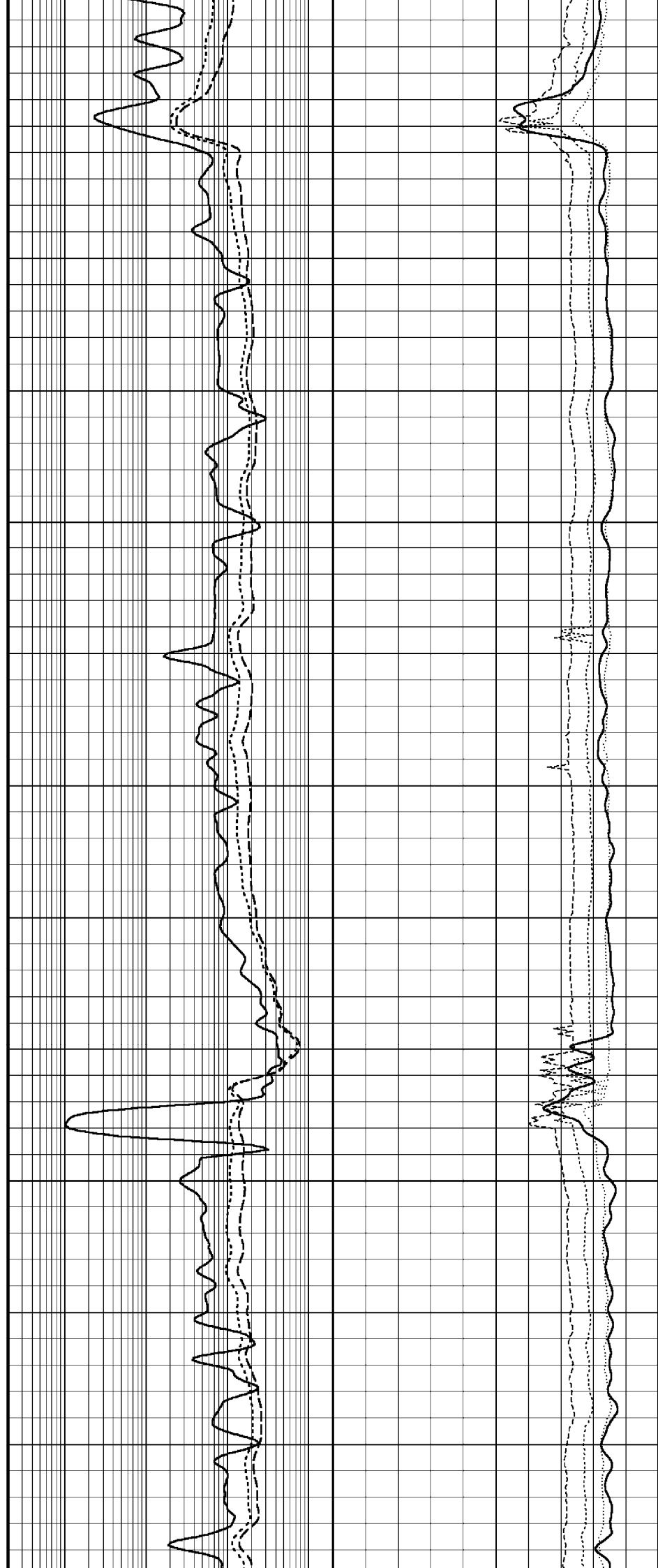
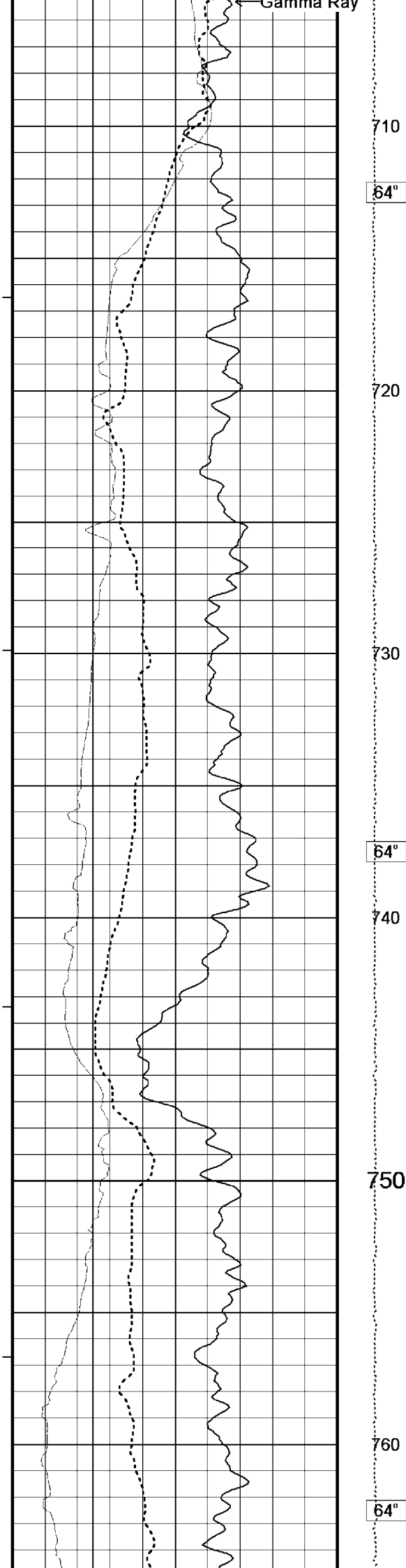
Shallow Laterolog →

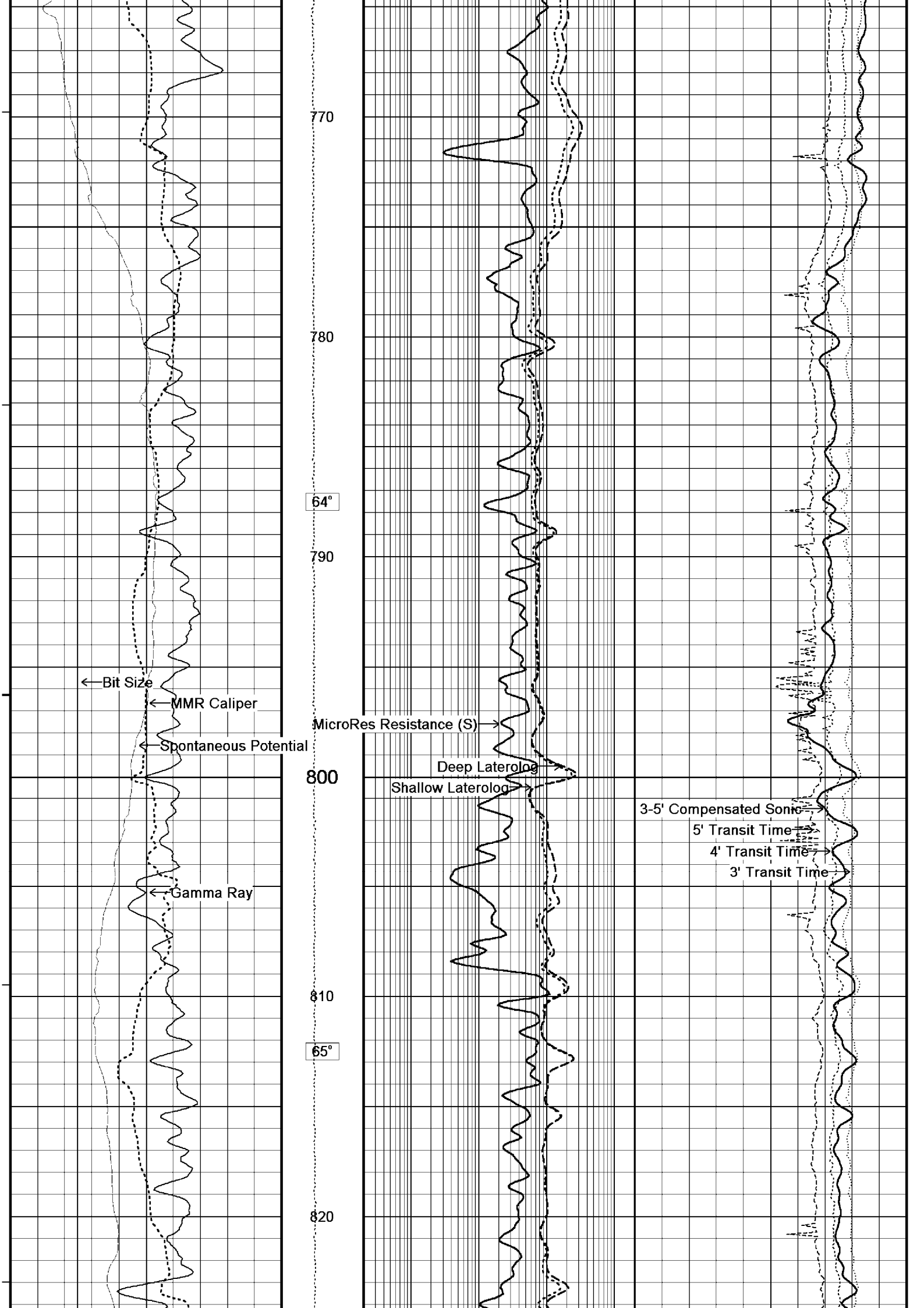
3-5' Compensated Sonic →

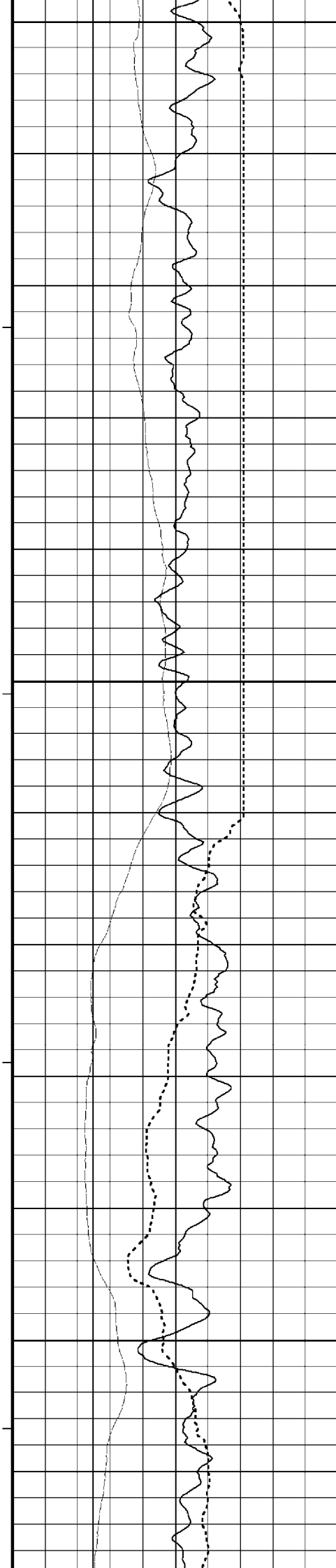
5' Transit Time →

4' Transit Time →

3' Transit Time →







830

65°

840

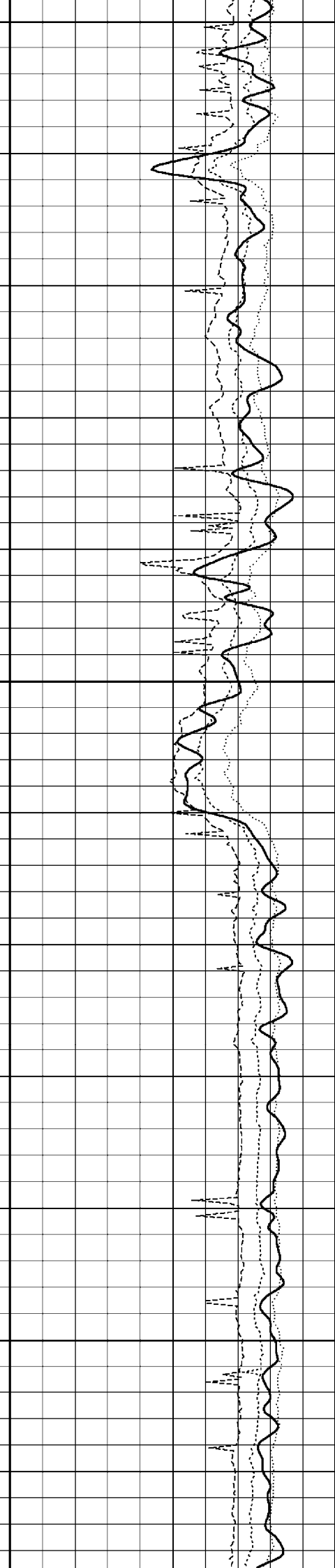
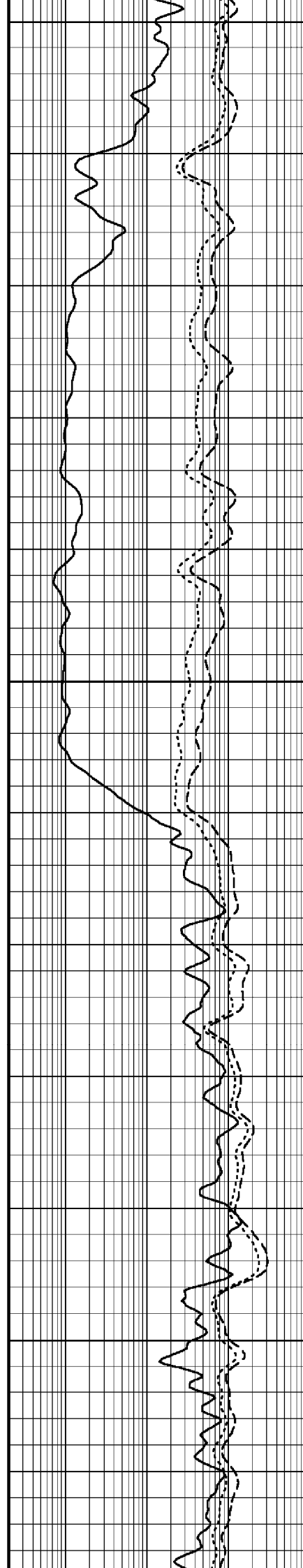
850

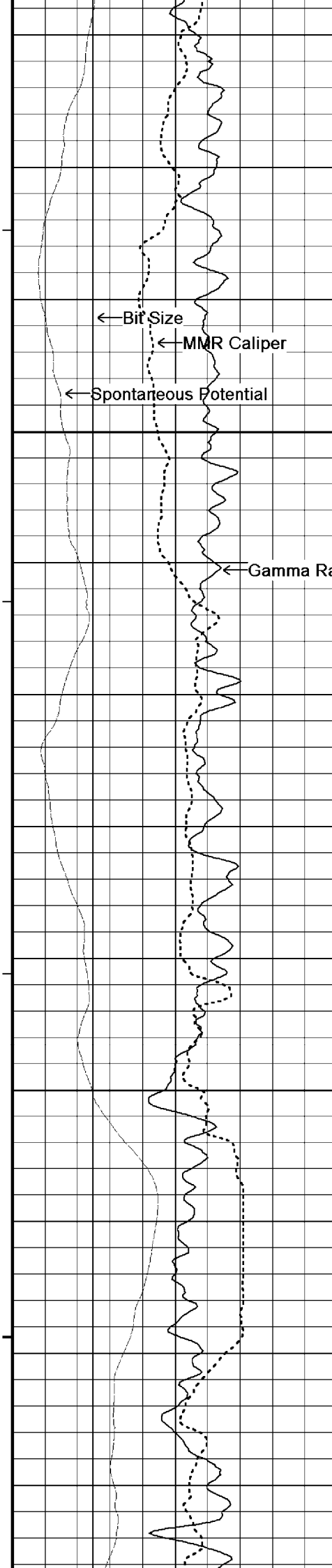
860

66°

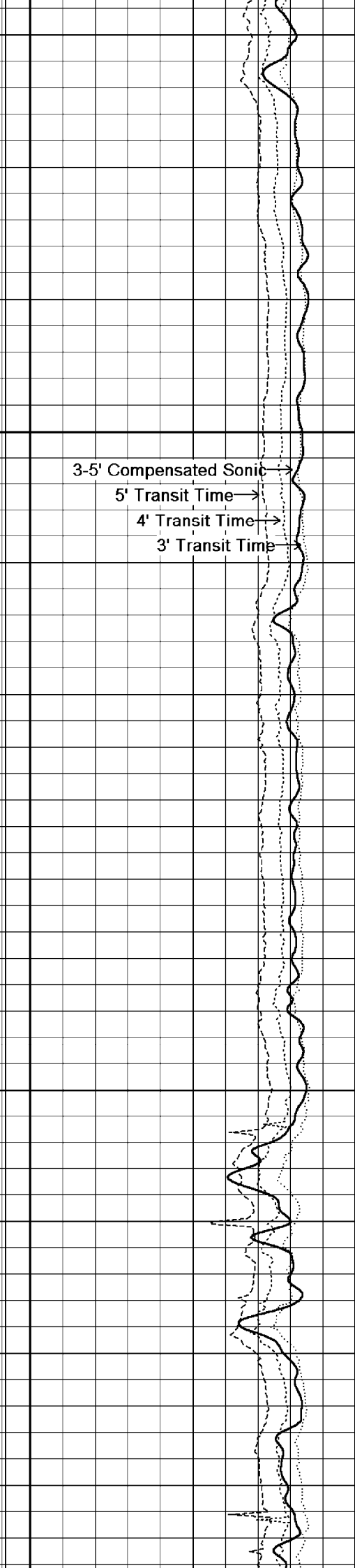
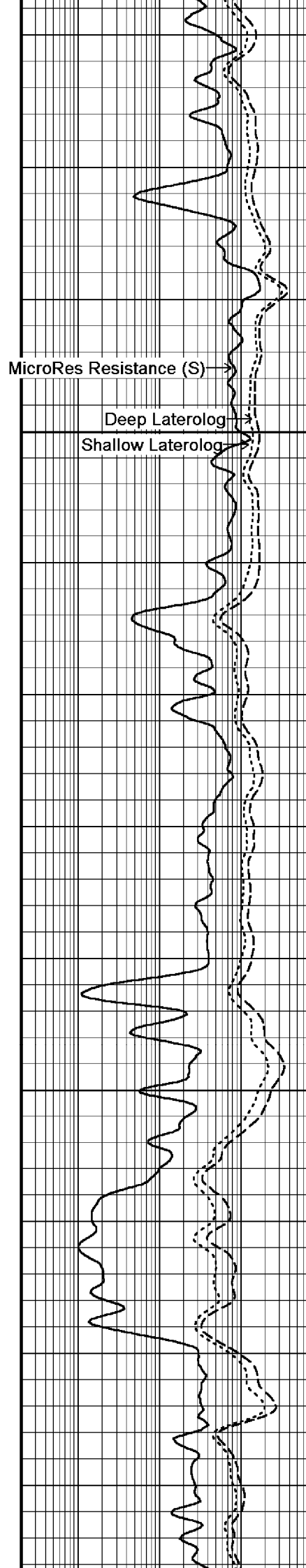
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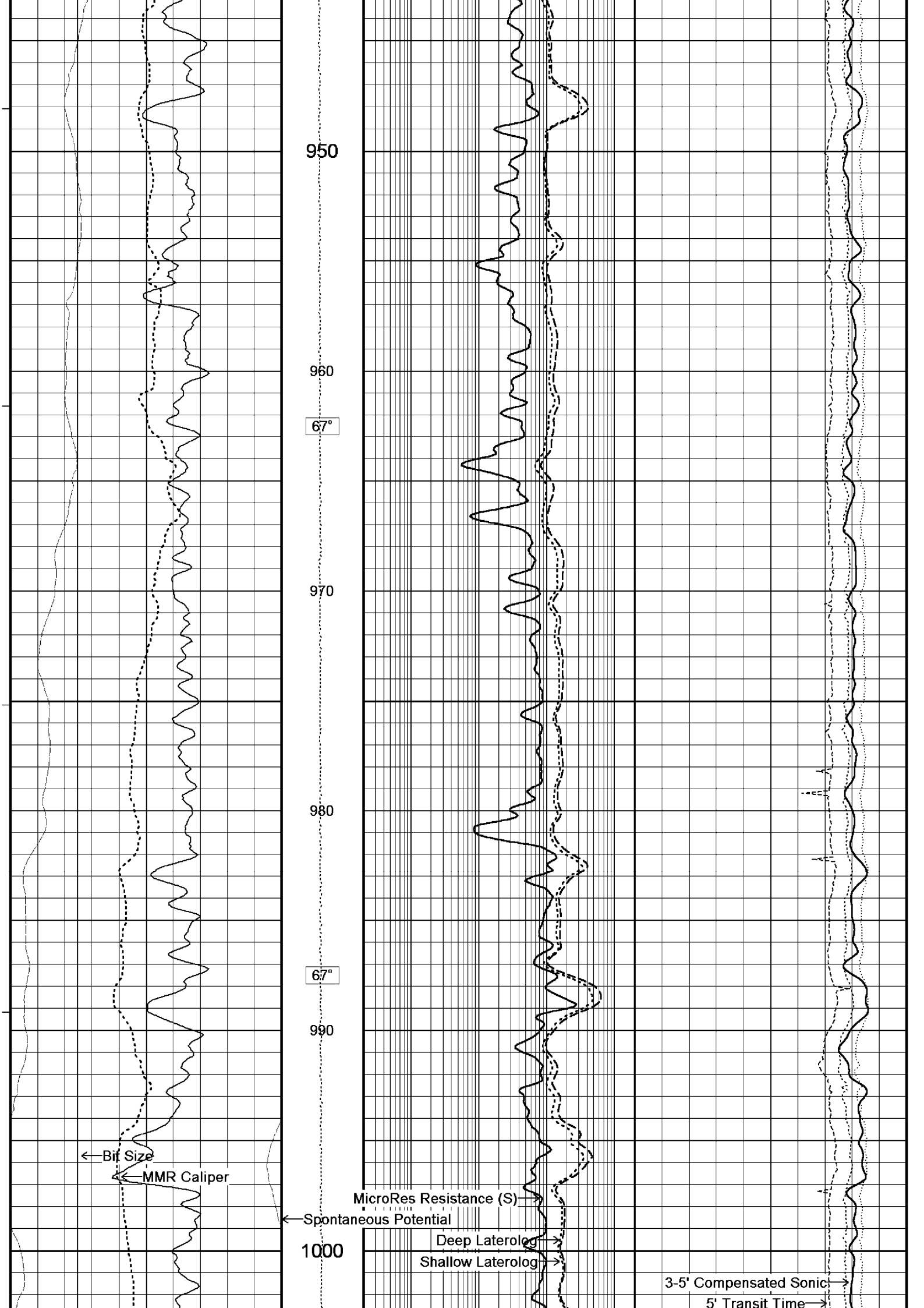
880

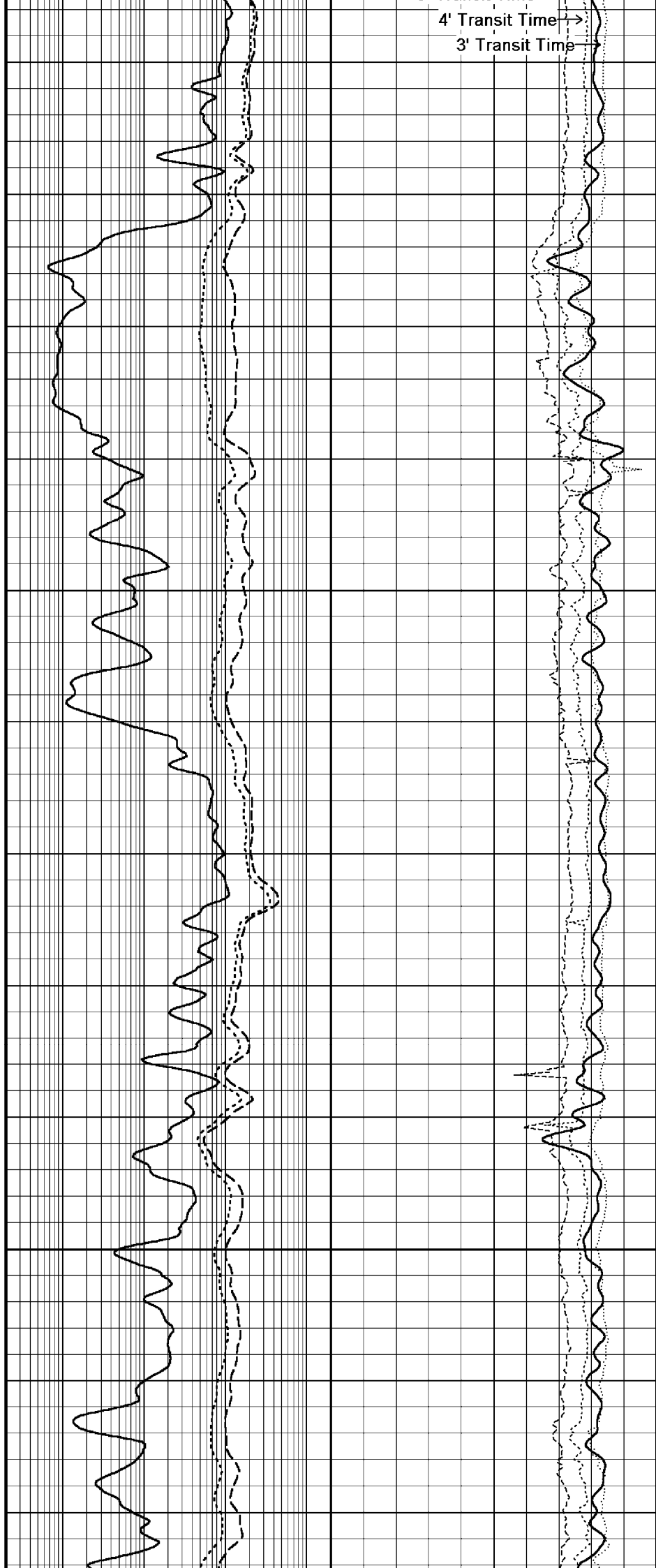
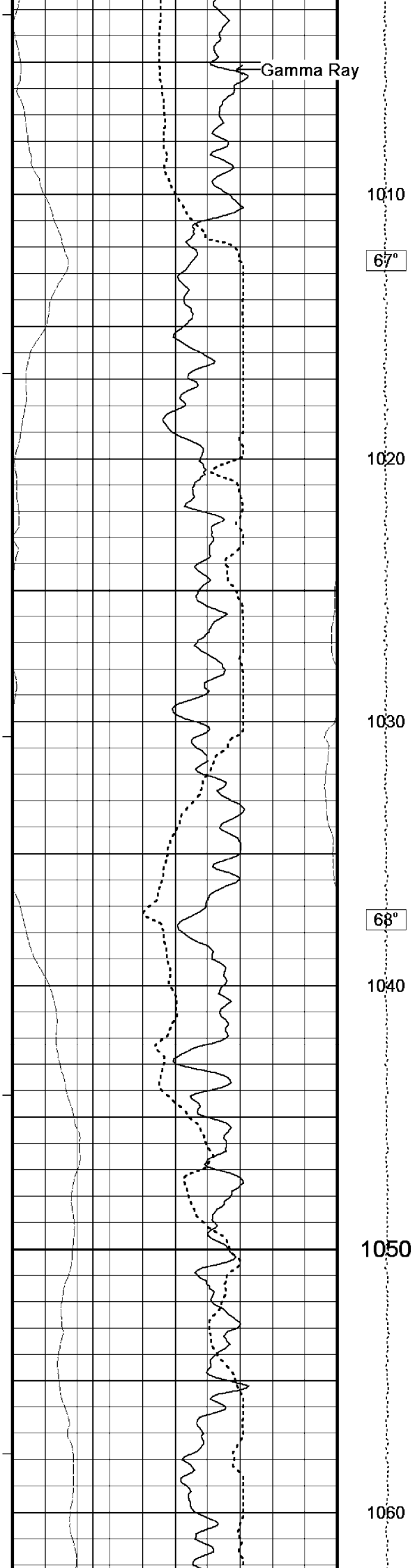


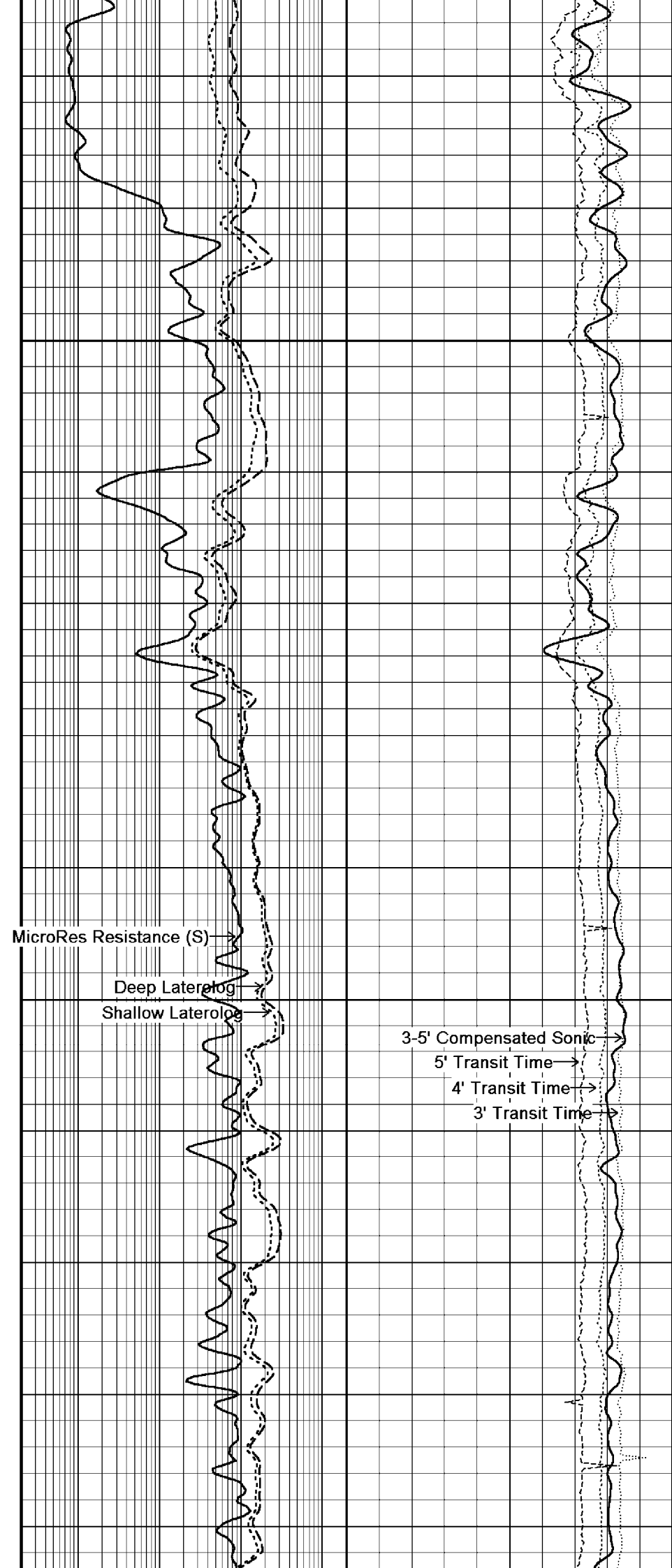
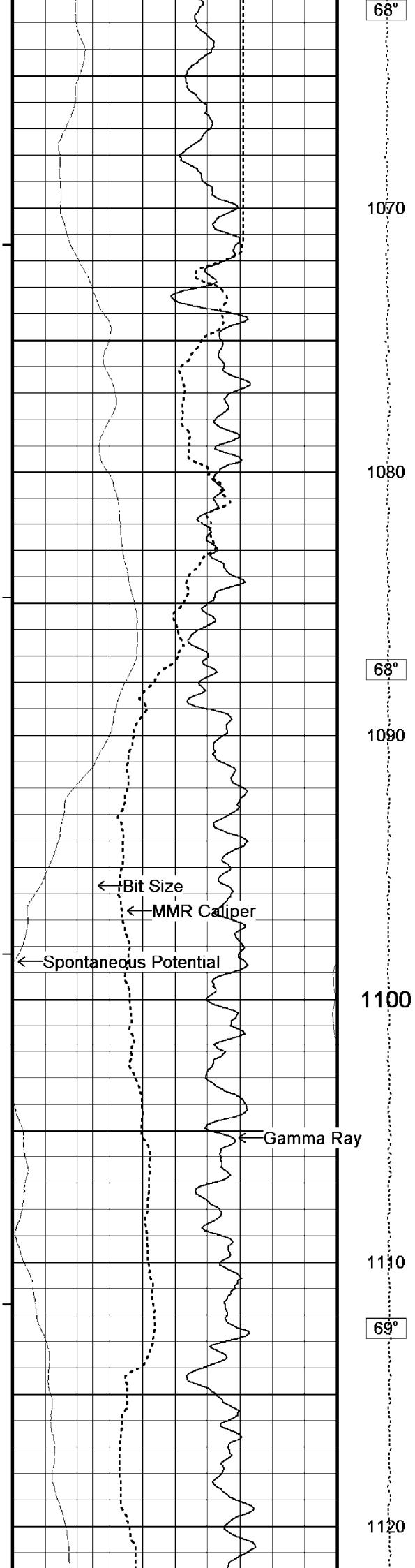


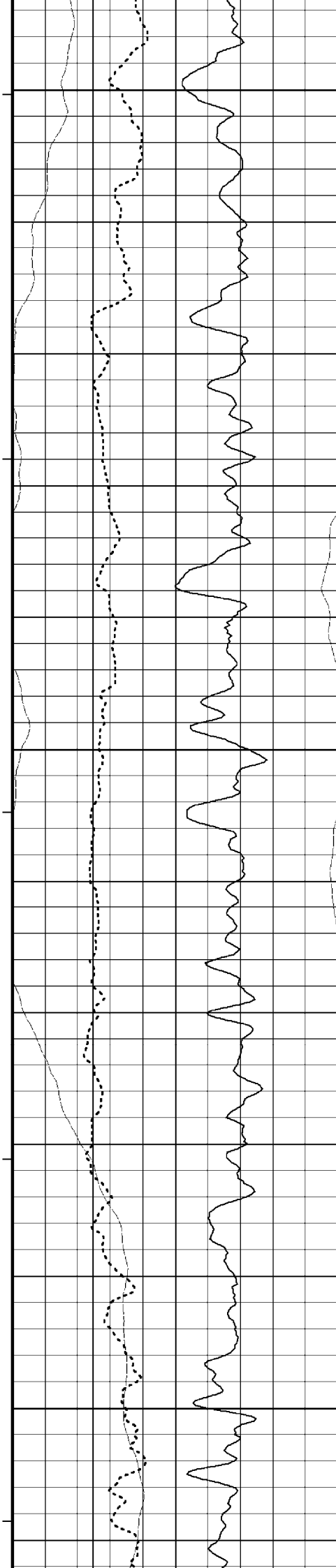
66°
890
900
910
66°
920
930
67°
940











1130

69°

1140

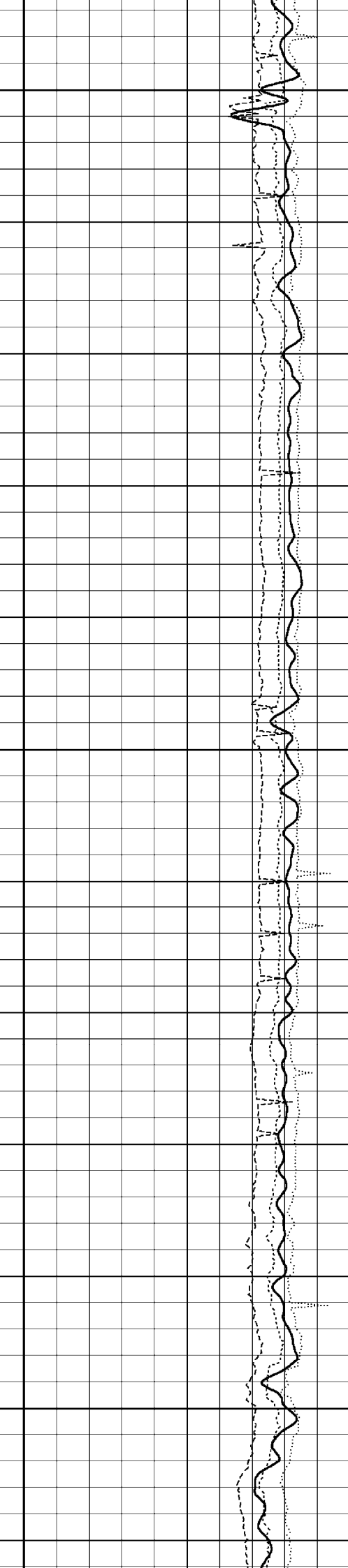
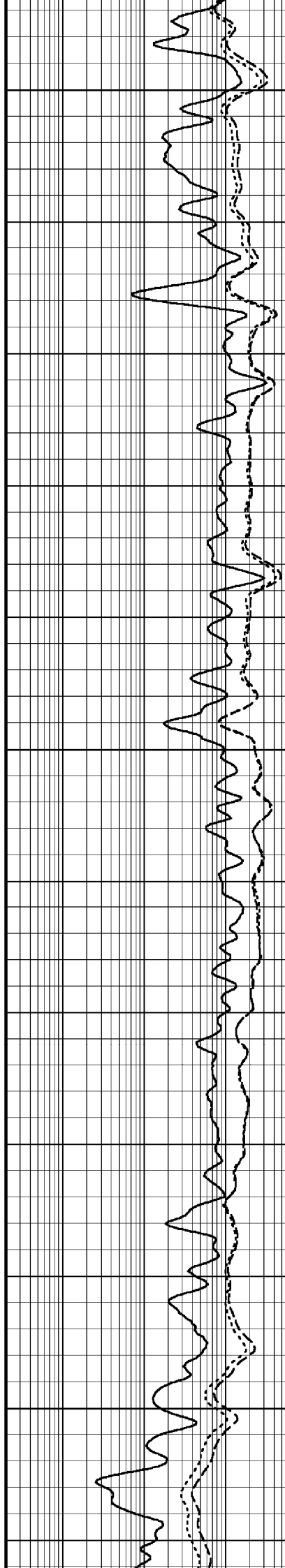
1150

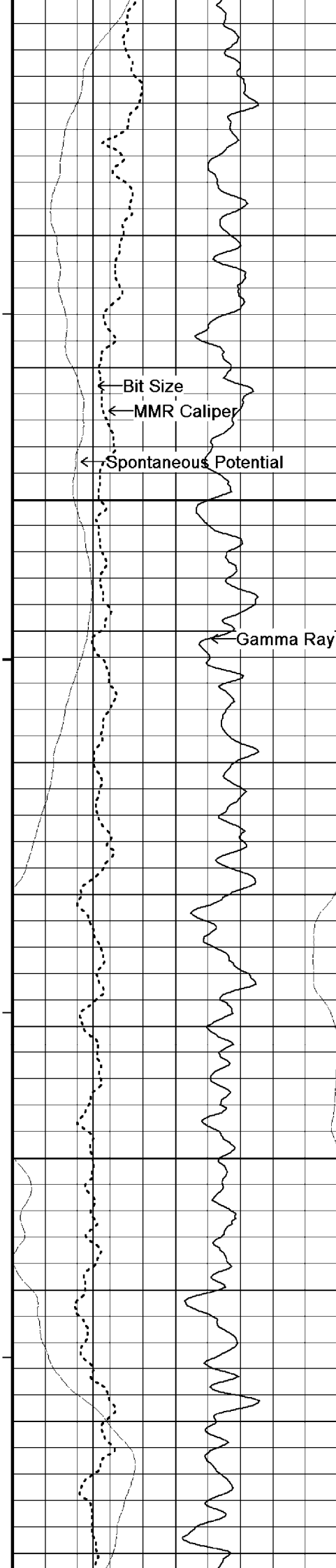
1160

69°

1170

1180





70°

1190

1200

1210

70°

1220

1230

70°

1240

MicroRes Resistance (S)

Deep Laterolog

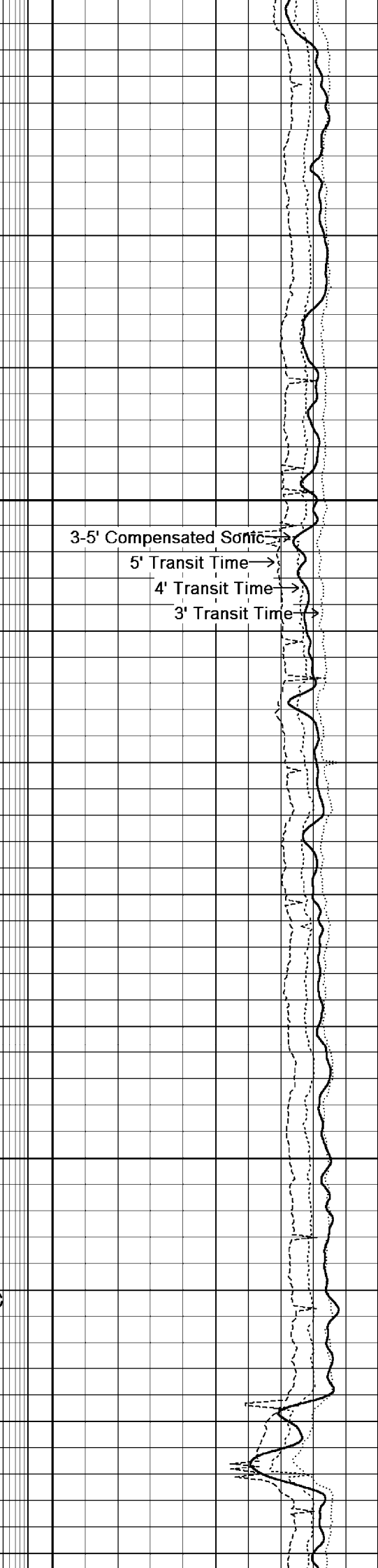
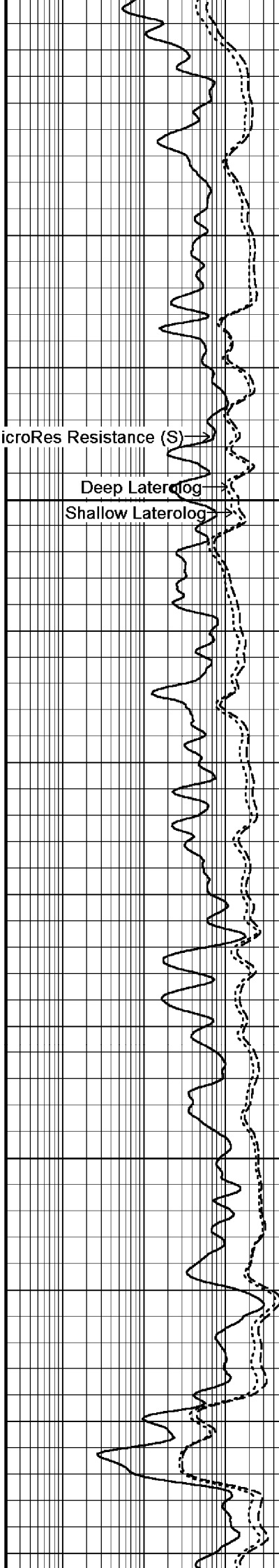
Shallow Laterolog

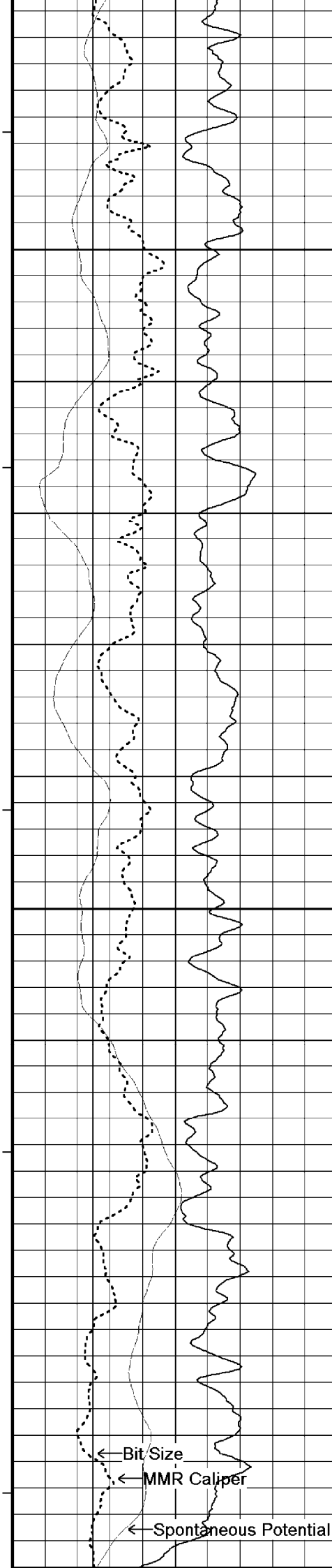
3-5' Compensated Sonic

5' Transit Time

4' Transit Time

3' Transit Time





1250

1260

70°

1270

1280

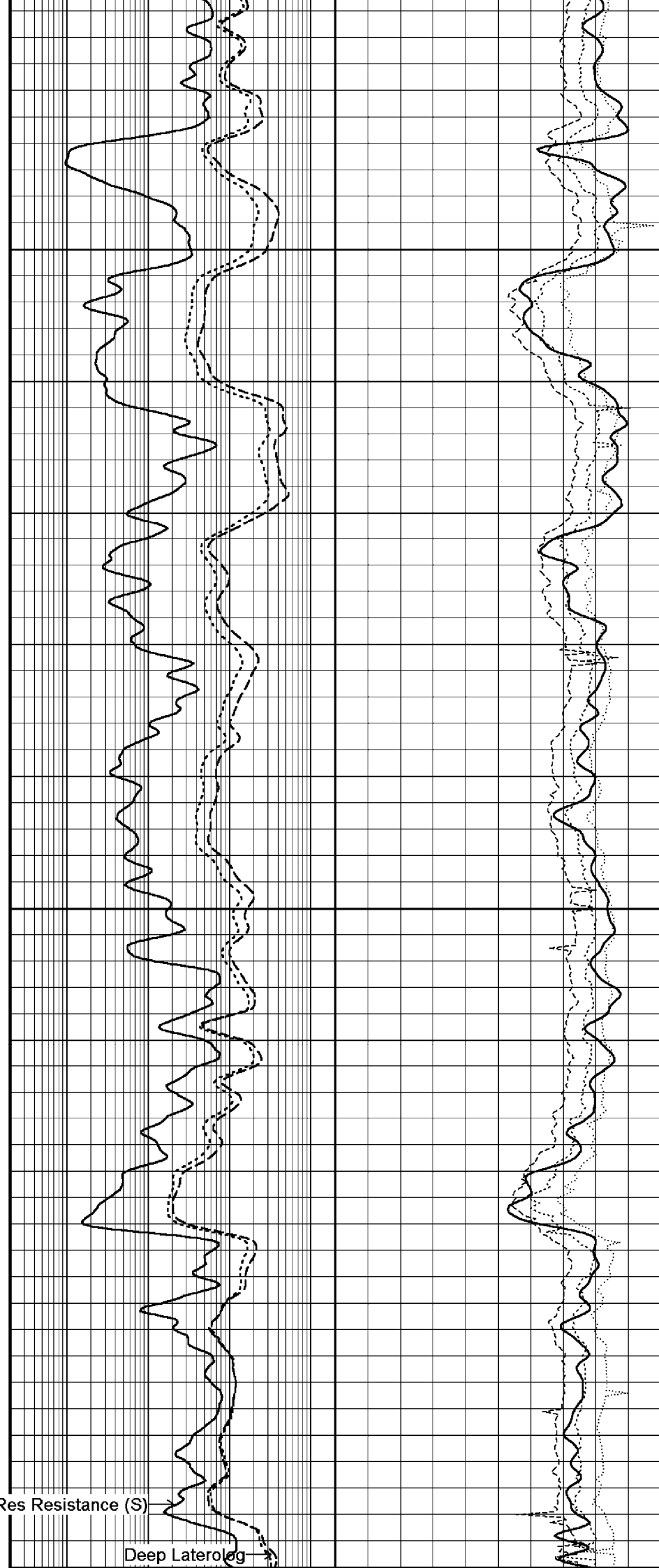
70°

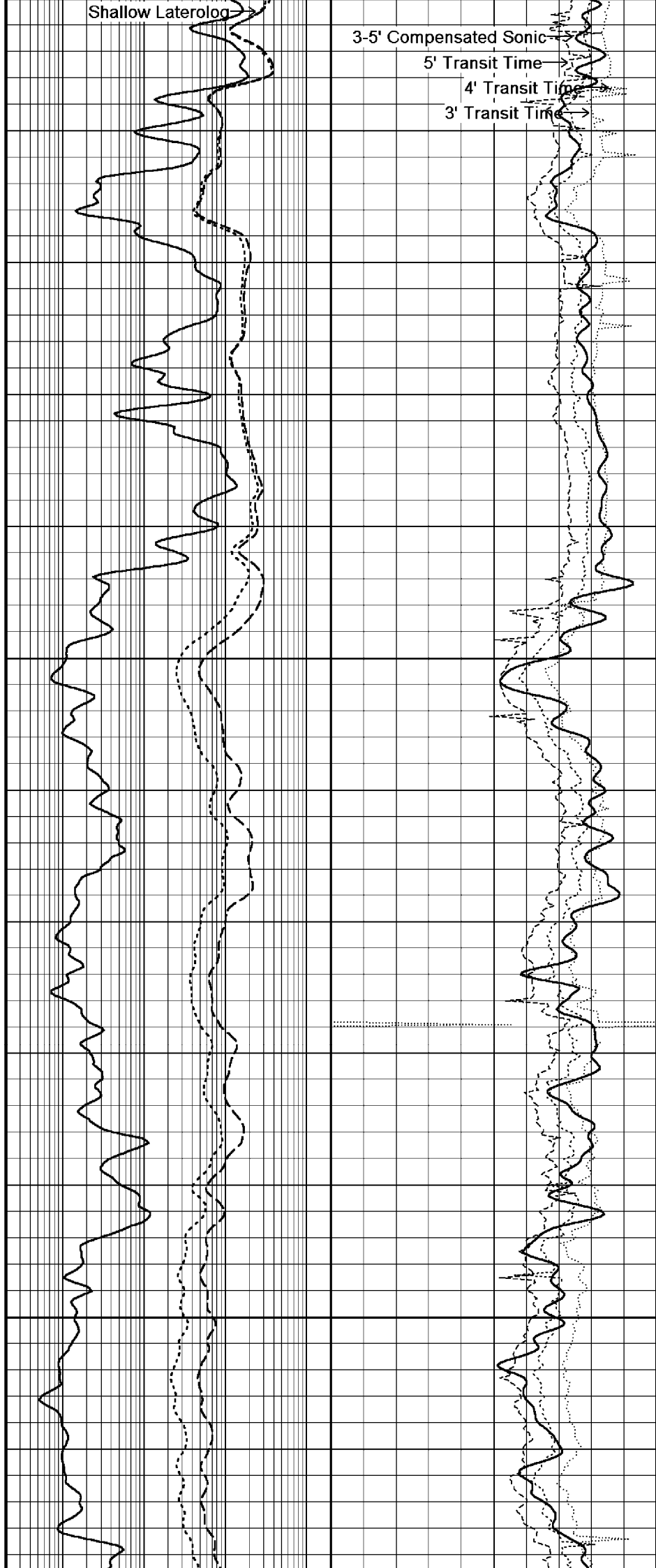
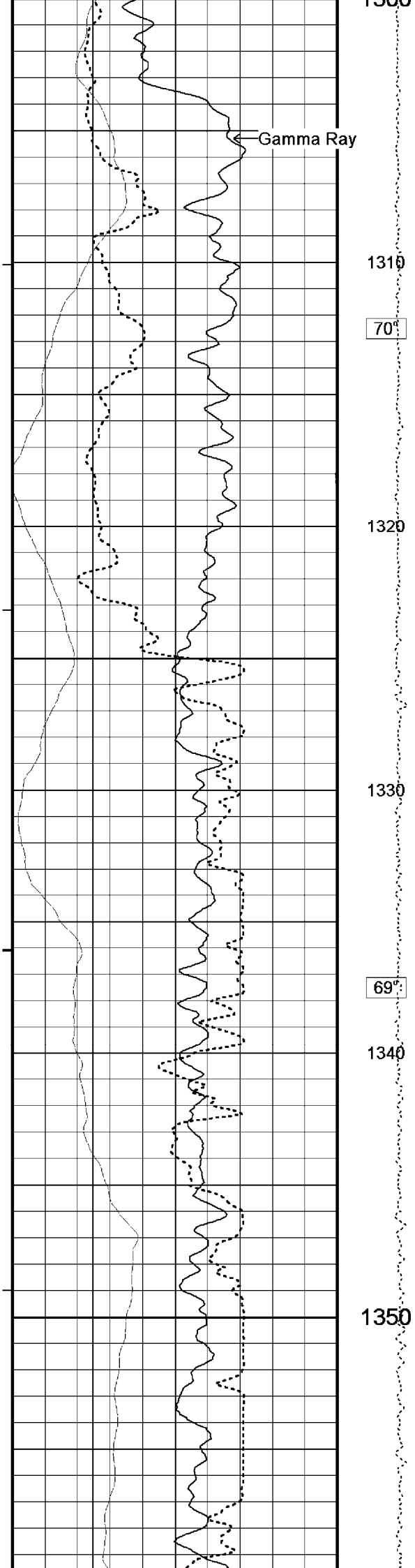
1290

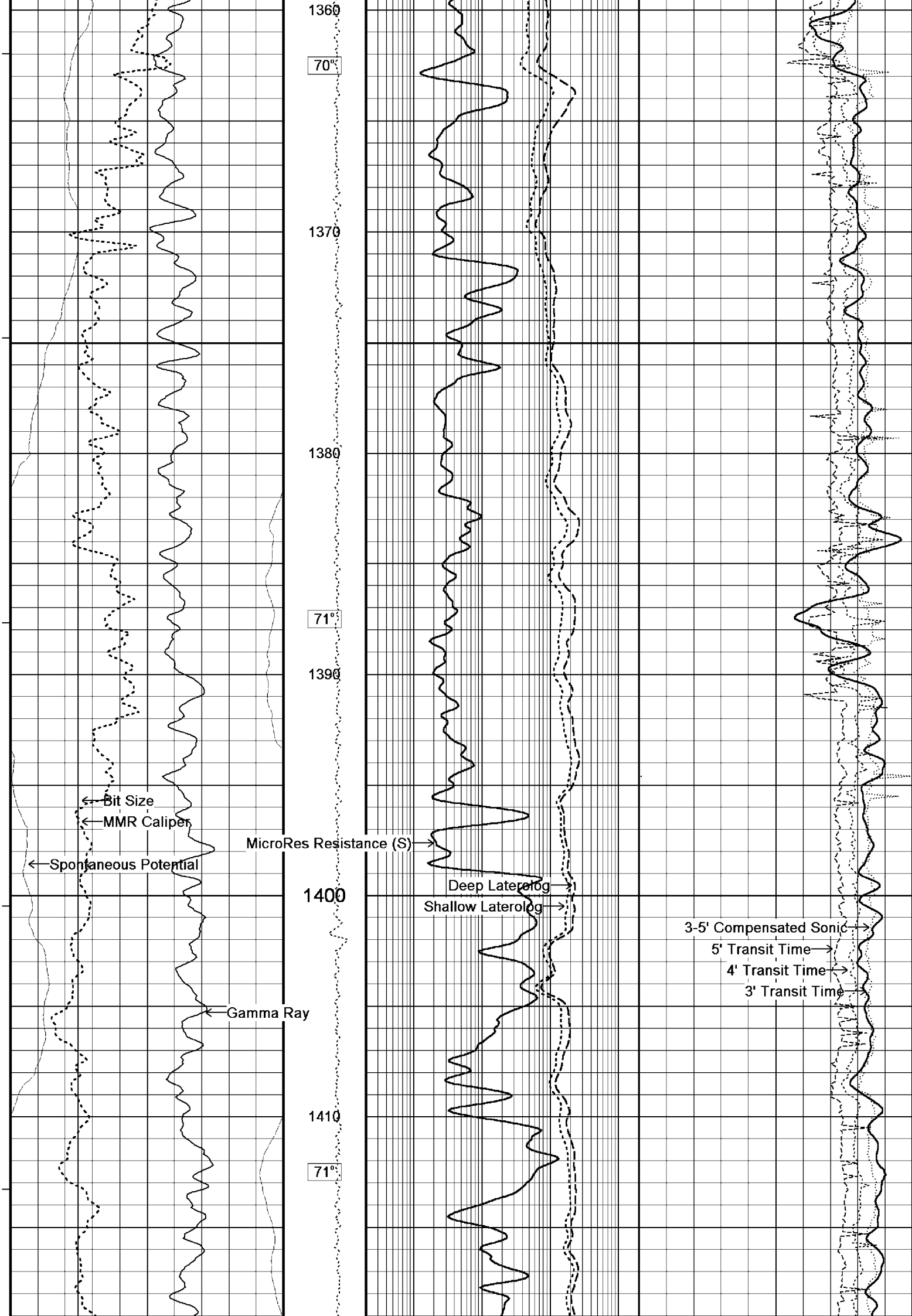
1300

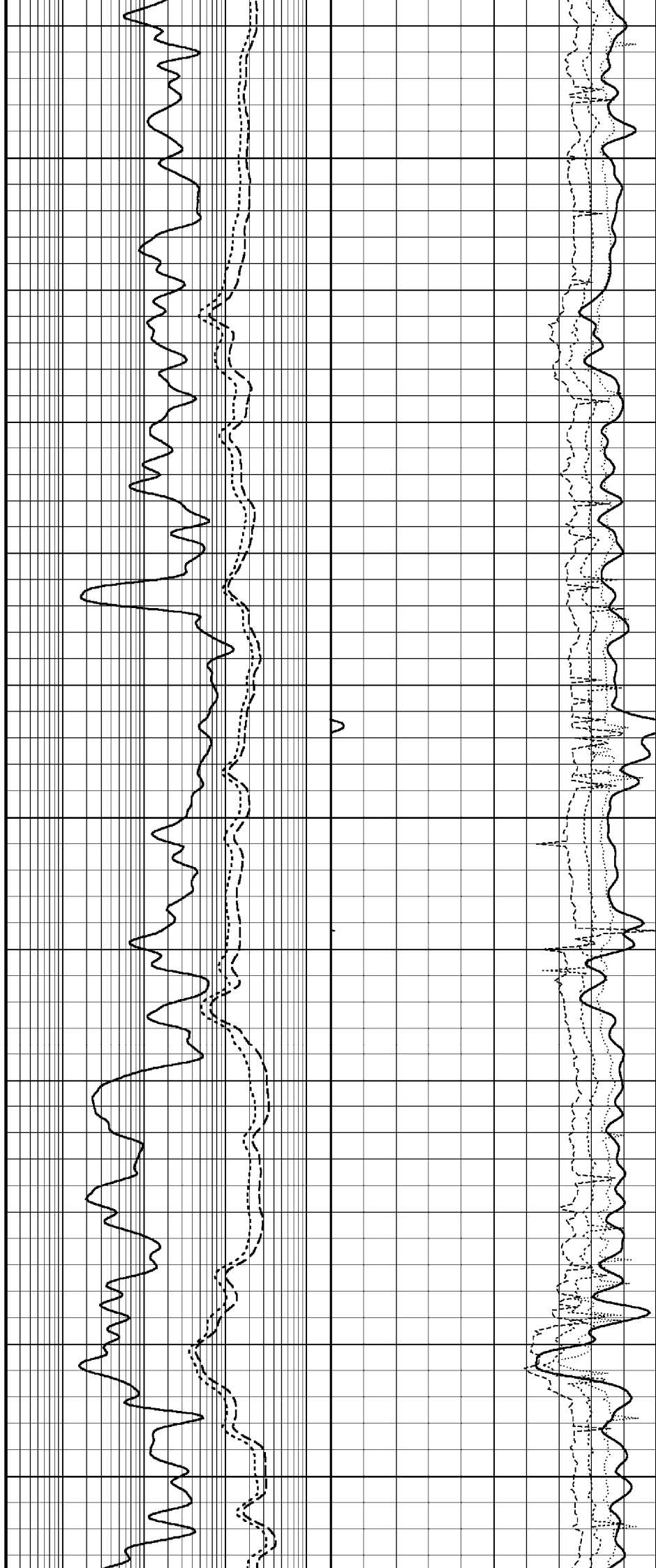
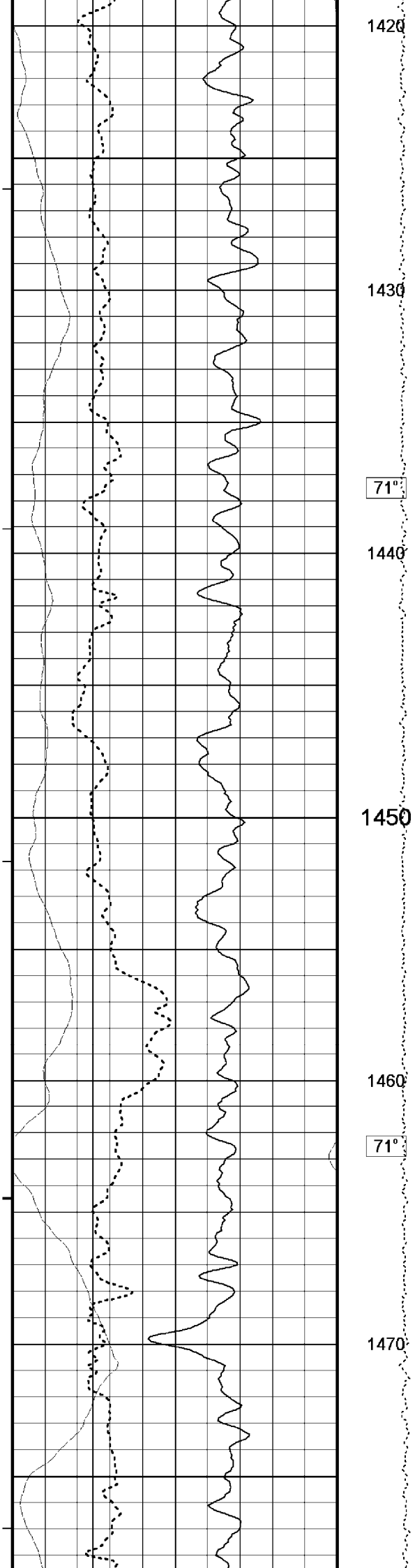
MicroRes Resistance (S)

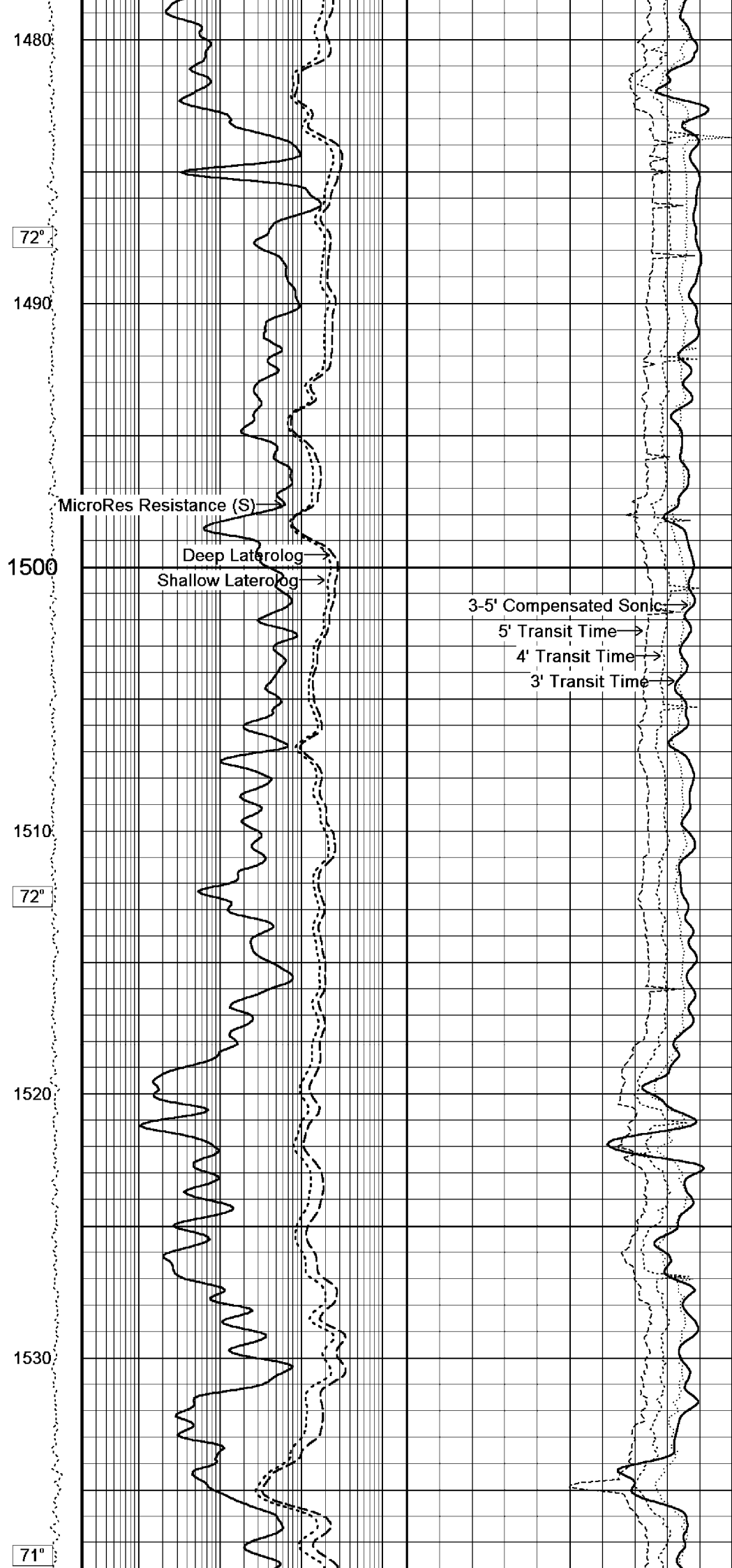
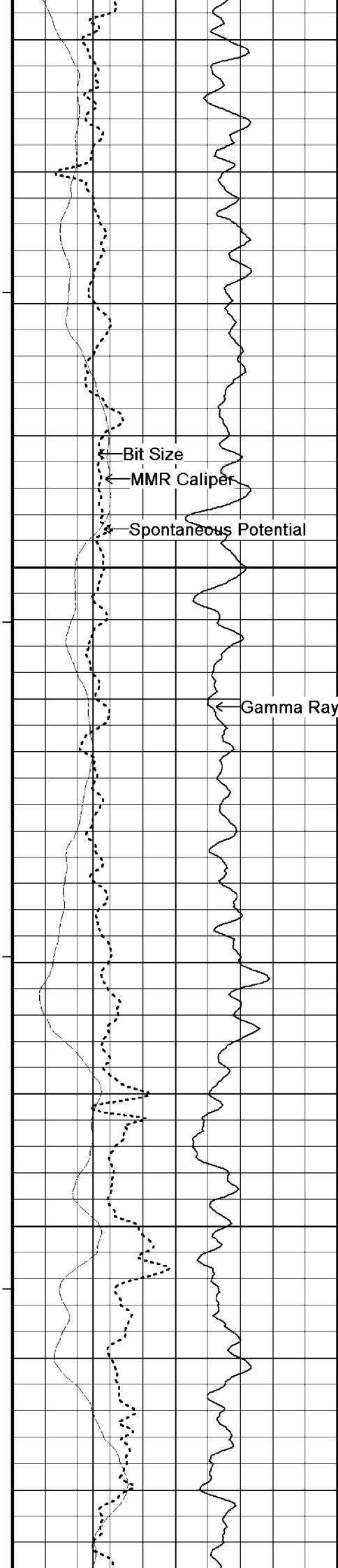
Deep Laterolog

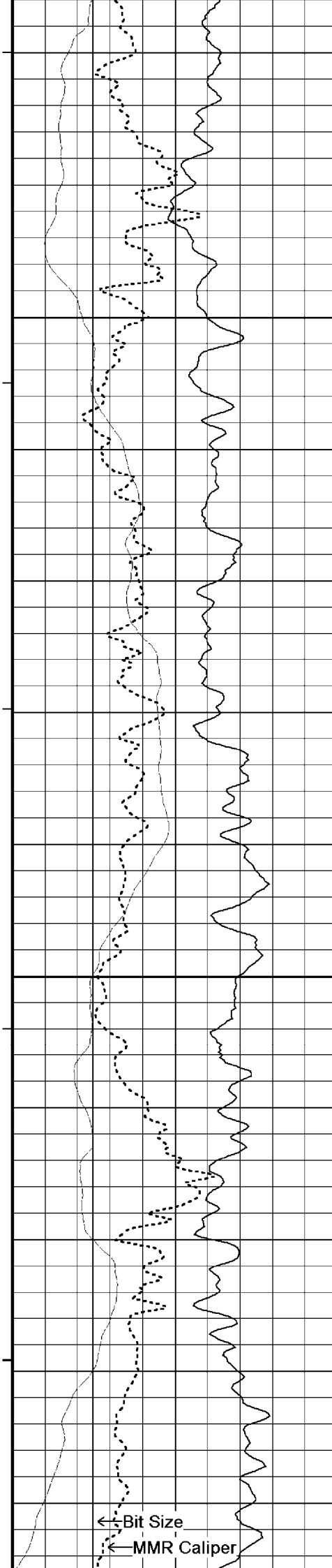












1540

1550

1560

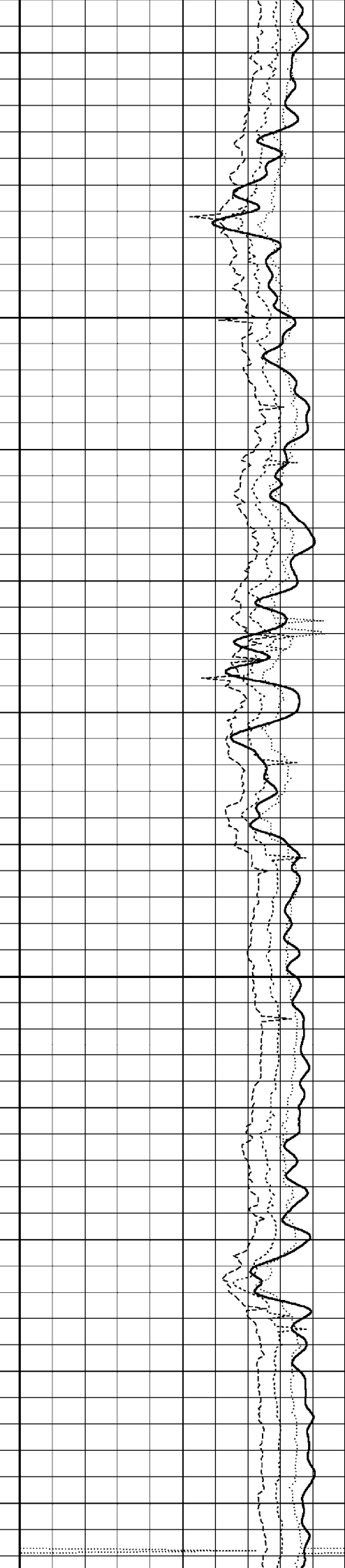
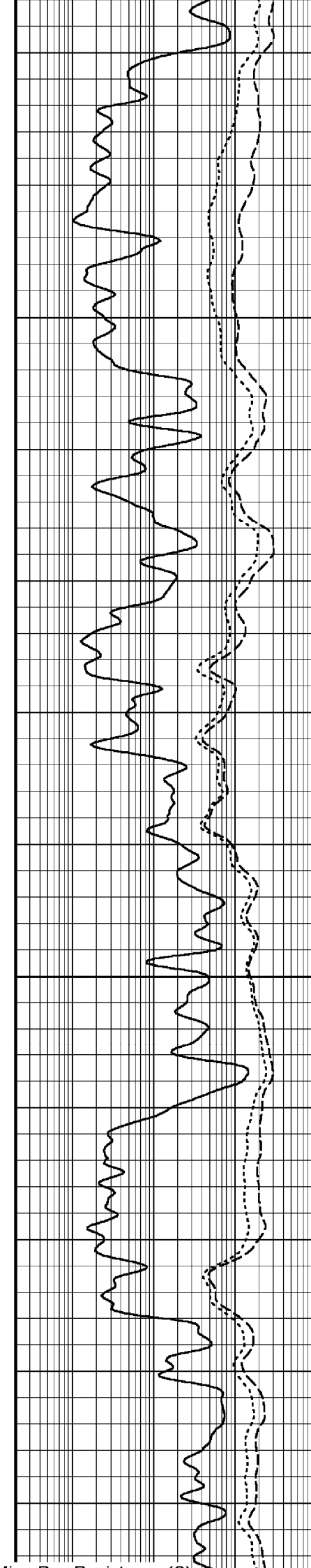
72°

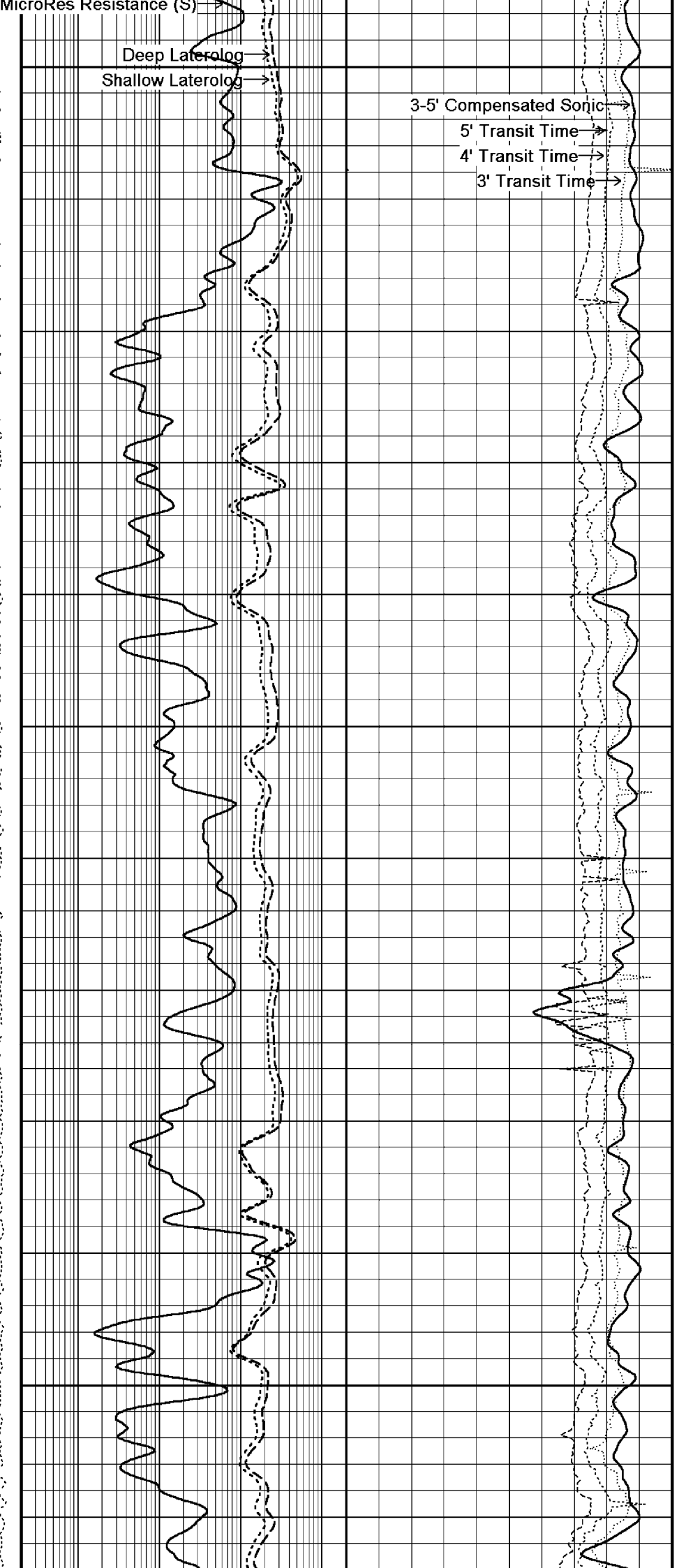
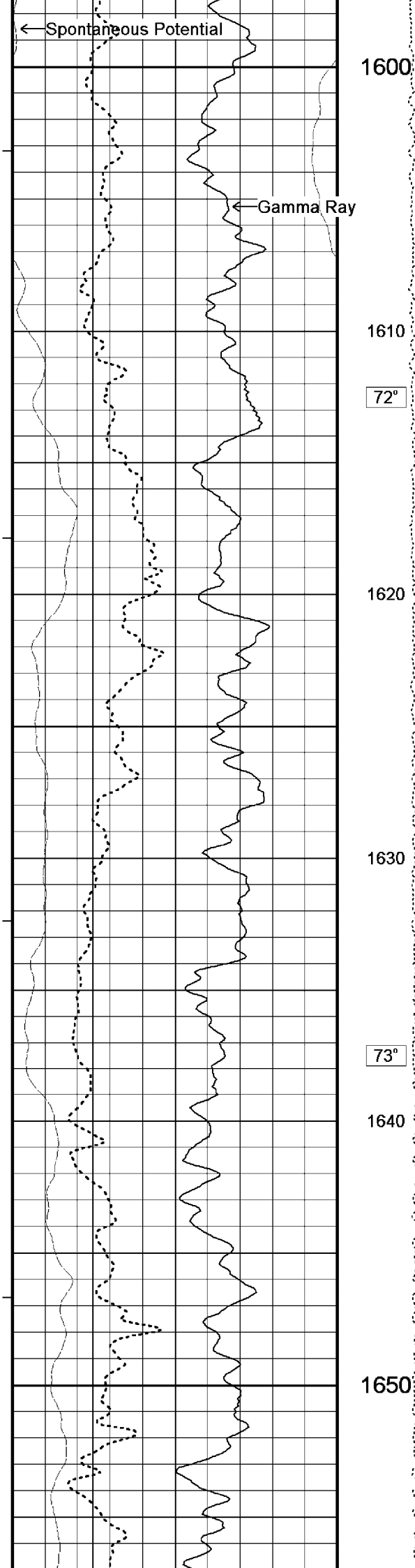
1570

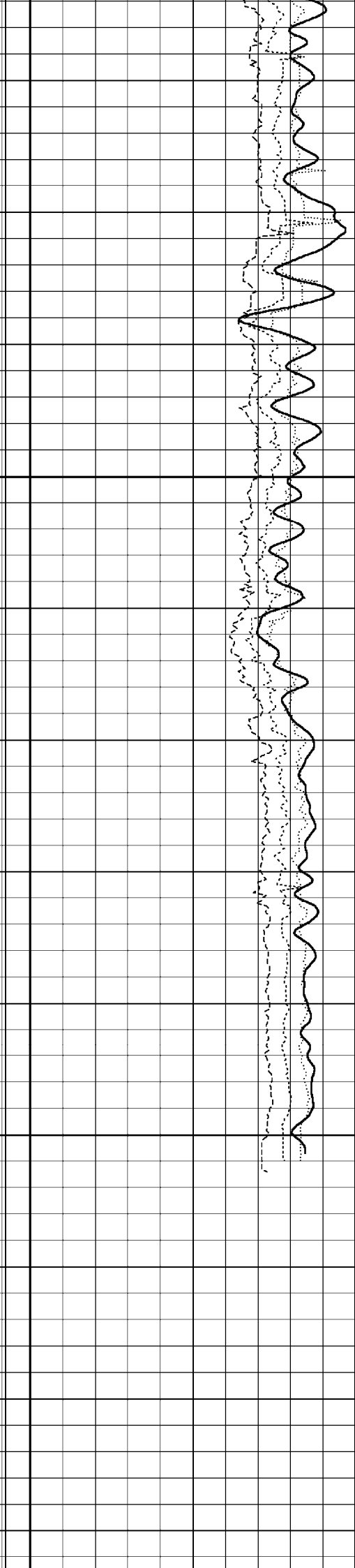
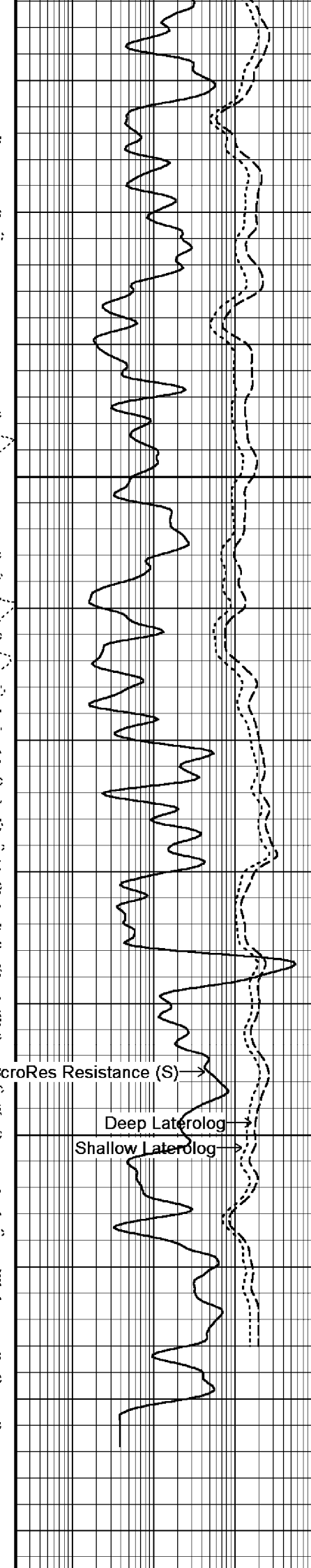
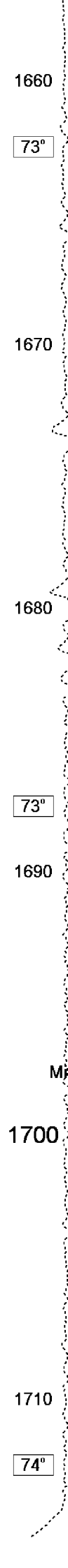
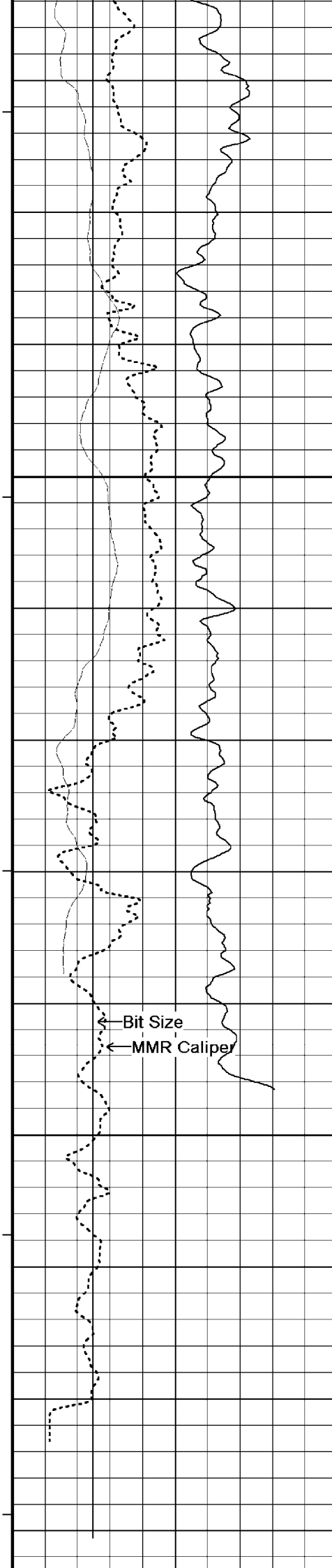
1580

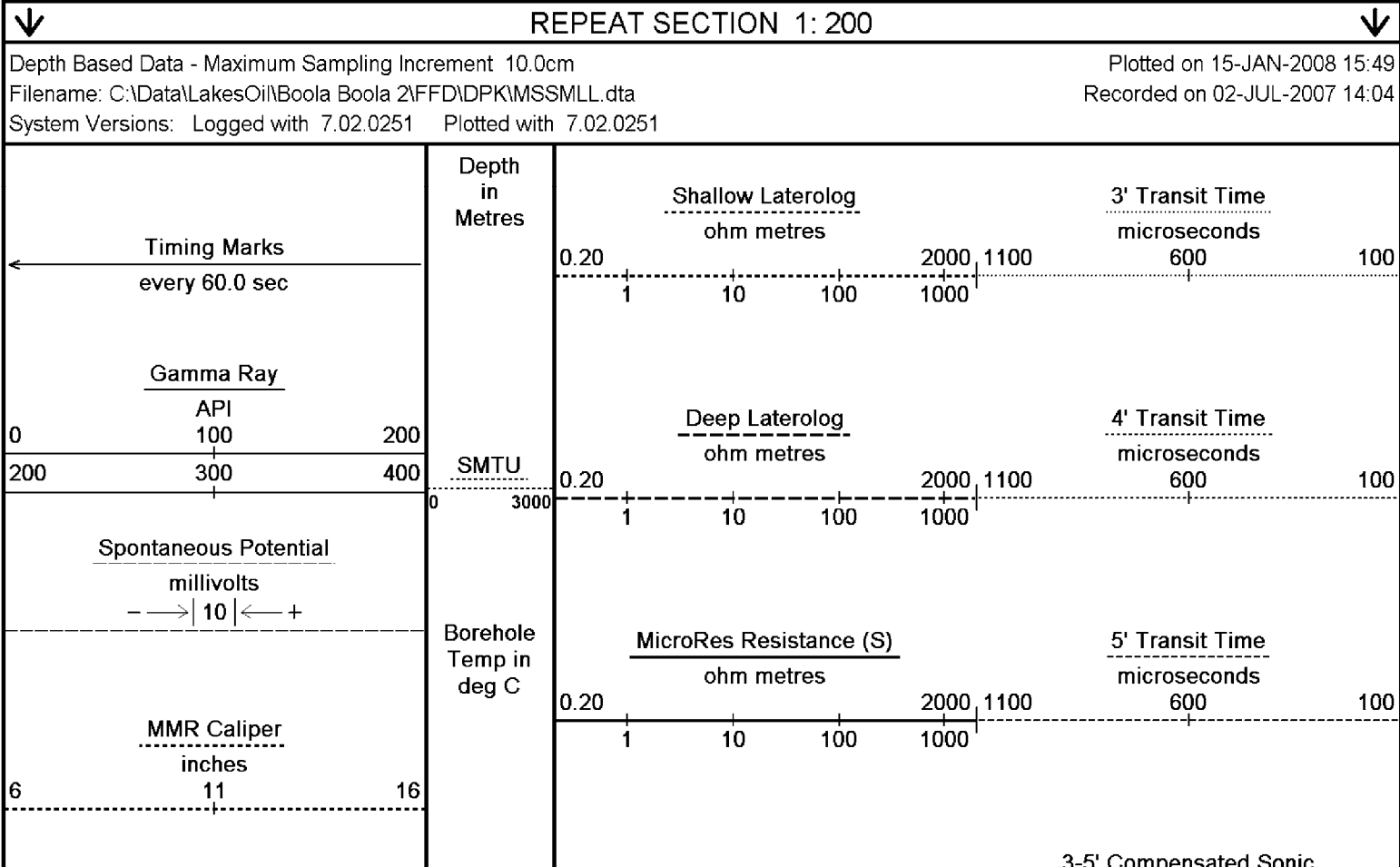
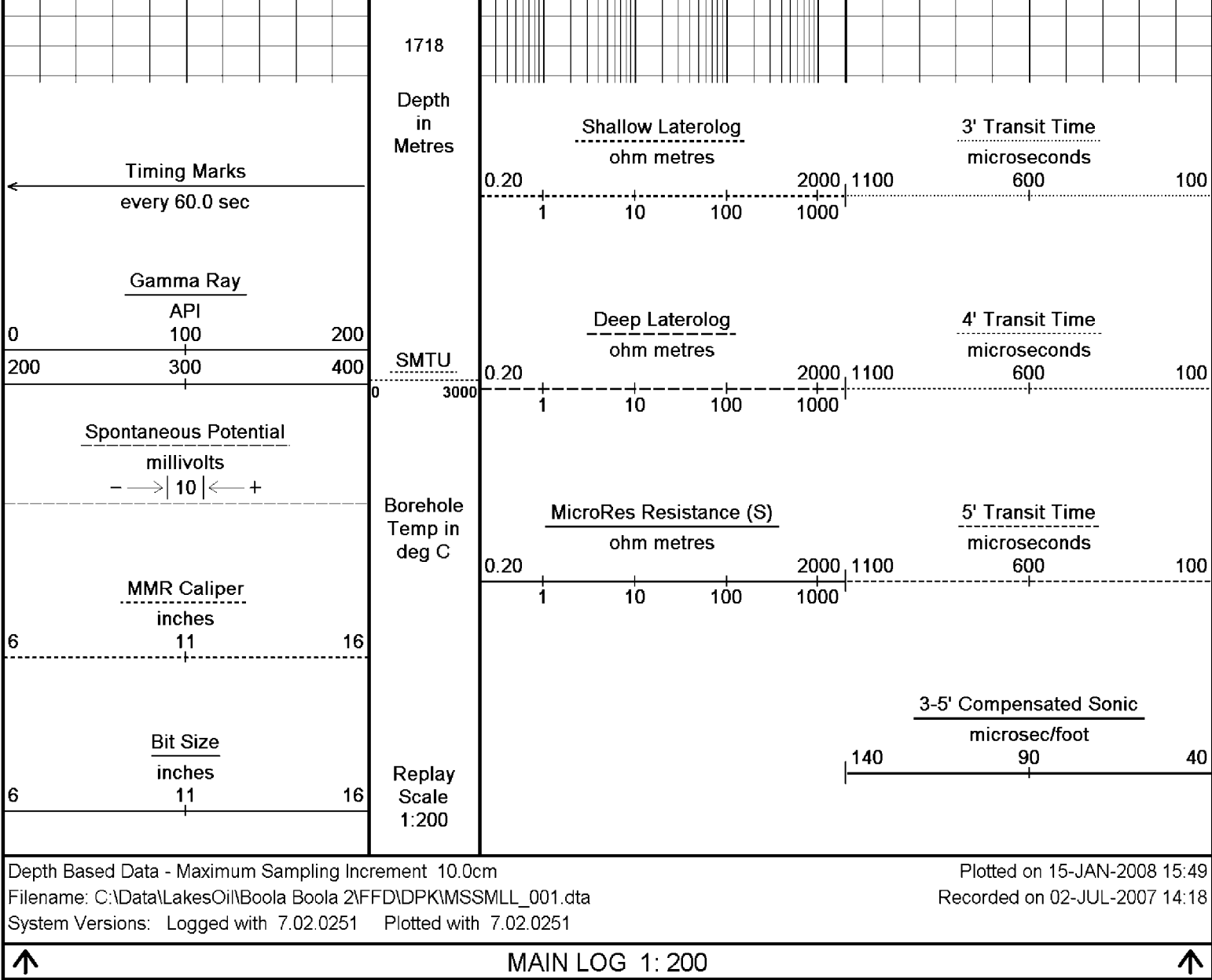
72°

1590









Bit Size
inches
11

6 16

Replay
Scale
1:200

microsec/foot
140 90 40

1640

1650

1660

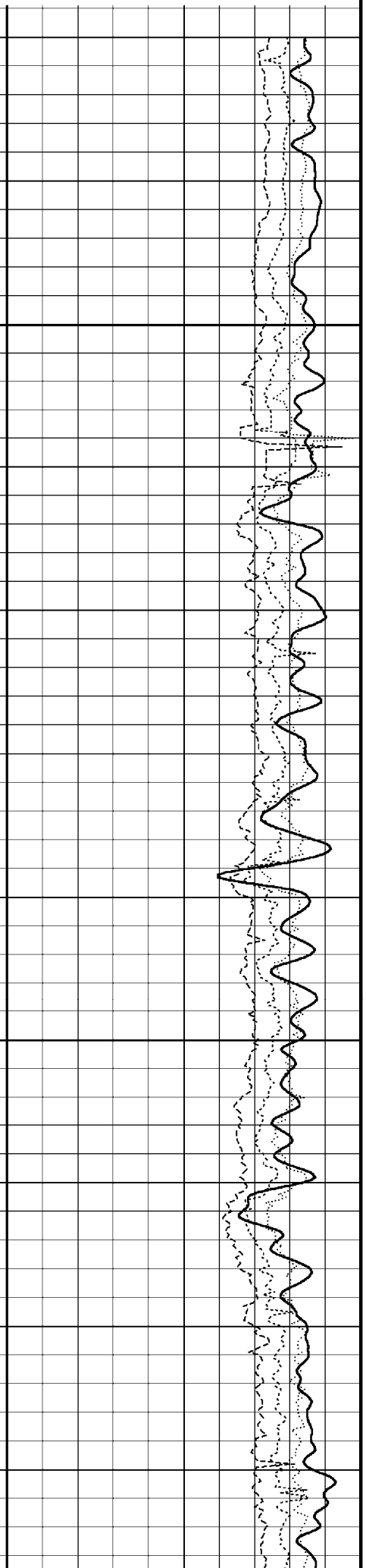
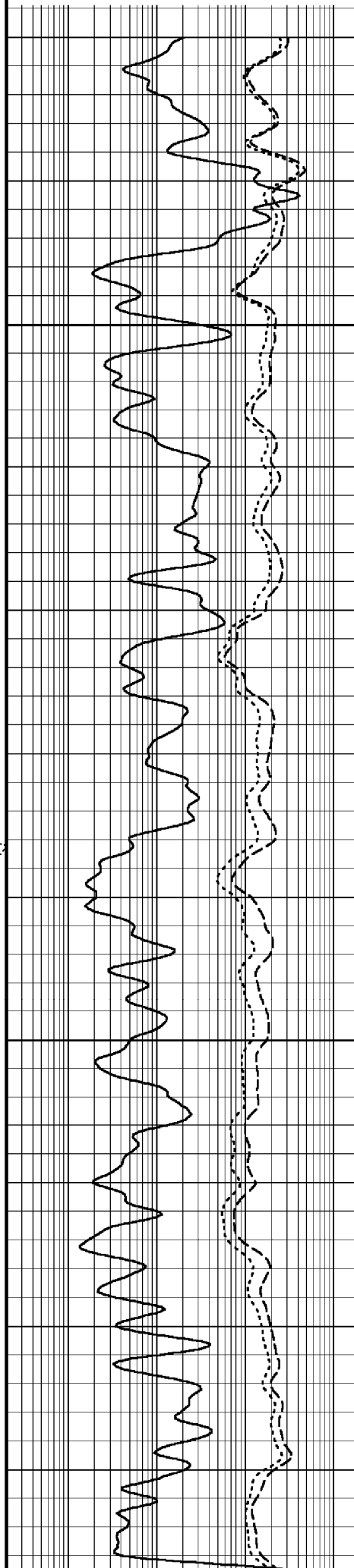
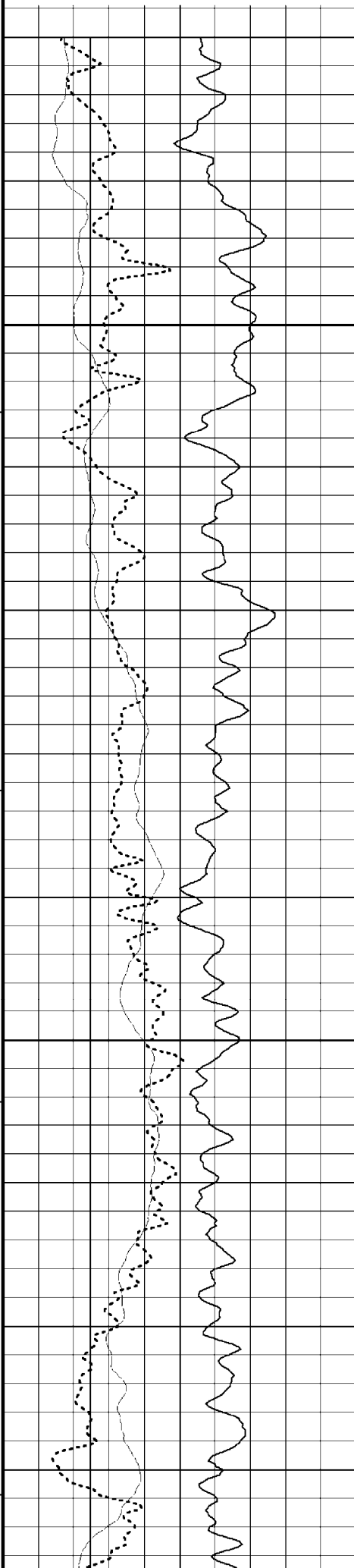
72°

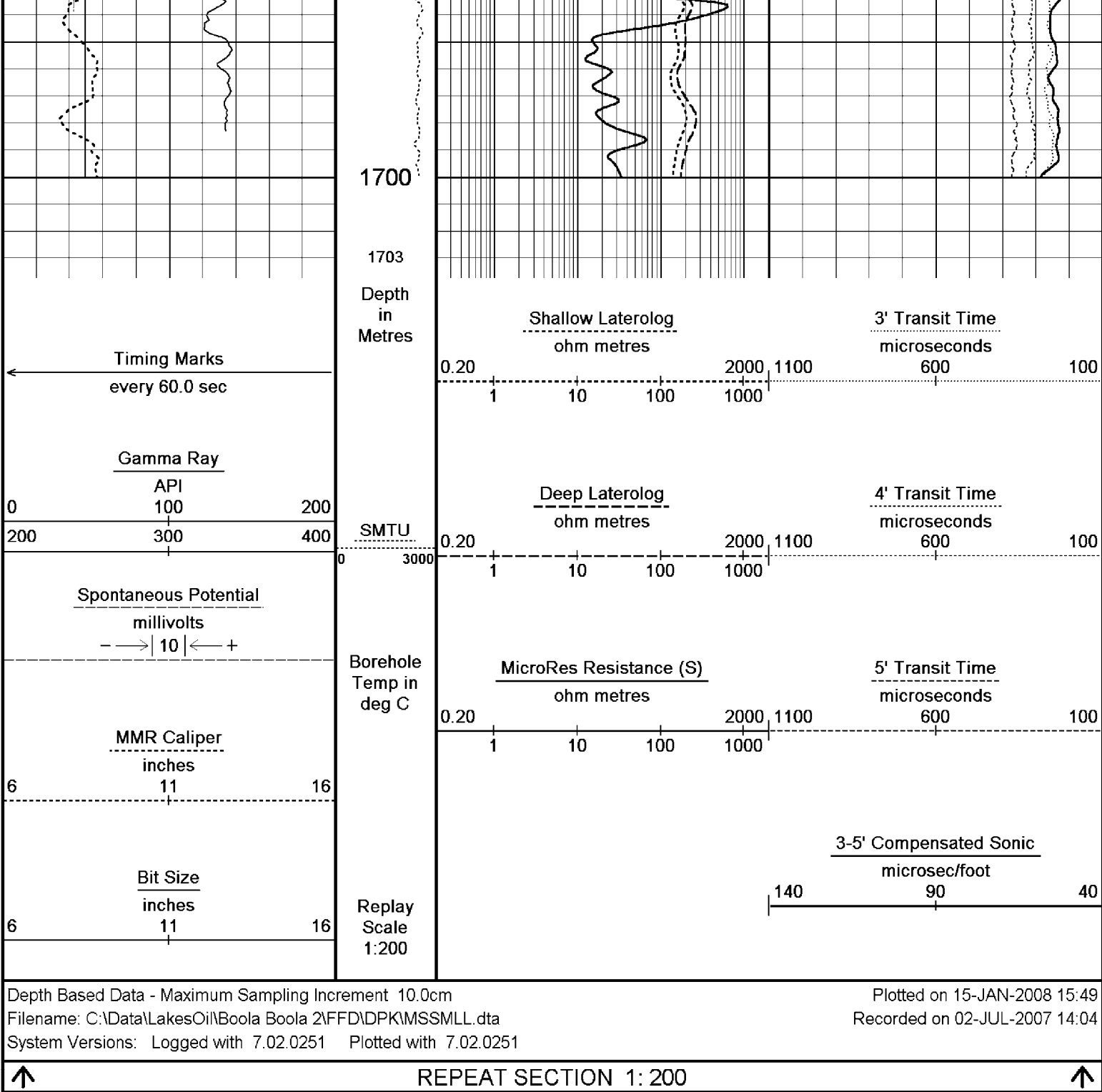
1670

1680

73°

1690





BEFORE SURVEY CALIBRATION		
C:\Data\LakesOil\Boola Boola 2\FFD\DPK\MSSMLL_001.dta		
General Constants All 000		Last Edited on 2-JUL-2007,12:18
General Parameters		
Mud Resistivity	0.615	ohm-metres
Mud Resistivity Temperature	25.000	degrees C
Water Level	0.000	metres
Density/Neutron Processing	Wet Hole	
Hole/Annular Volume and Differential Caliper Parameters		
HVOL Caliper 1	MMR Caliper	
HVOL Caliper 2	Bit Size	
Annular Volume Diameter	7.000	inches
Caliper for Differential Caliper	None	
Rwa Parameters		
Porosity used	Limestone Sonic Porosity	
Resistivity used	Deep Laterolog	
RWA Constant A	0.610	

Down-hole Tension Calibration SMS 000

Field Calibration on 28-MAY-2005 13:11

Reading No	Measured	Calibrated (lbs)
1	14102.70	0.00
2	18957.76	2000.00

Gamma Calibration MCG 142

Field Calibration on 4-APR-2007 15:02

	Measured	Calibrated (API)
Background	48	33
Calibrator (Gross)	765	523
Calibrator (Net)	717	490

Gamma Constants MCG 142

Last Edited on 4-APR-2007,14:57

Gamma Calibrator Number	GRC060	
Mud Density	1.03	gm/cc
Caliper Source for Processing	MMR Caliper	
Tool Position	Eccentred	
Concentration of KCl	0.00	kppm

SP Calibration MCG 142

Field Calibration on 23-MAR-2007,12:01

	Measured	Calibrated (mV)
Reference 1	82.0	82.0
Reference 2	-82.0	-82.0

High Resolution Temperature Calibration MCG 142

Field Calibration on 23-MAR-2007,12:01

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

High Resolution Temperature Constants MCG 142

Pre-filter Length	11
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Sonic Constants MSS 066

Last Edited on 2-JUL-2007,12:17

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 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	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
Initial Discriminator Level	0.1980	mVolts

Full Waveform Parameters

Use 3' Waveform to derive TR	N/A	
Use 4' Waveform to derive TR	N/A	
Use 5' Waveform to derive TR	N/A	
Use 6' Waveform to derive TR	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	

Semblance Level	N/A	
Semblance Window Width	N/A	micro-sec
Sonic 1 Despiker	N/A	N/A
Sonic 2 Despiker	N/A	N/A

Laterolog Calibration MLE 031				Base Calibration on 4-JUN-2007 14:33
				Field Check on 2-JUL-2007 12:08
Base Calibration				
Channel	Resistor 1	Measured	Calibrated (ohm-m)	
		Resistor 2	Resistor 1	Resistor 2
Shallow	0.0	974.8	0.0	1327.3
Deep	0.0	974.8	0.0	852.7
Groningen	0.0	672.7	0.0	852.7
Channel	Base Check (ohm-m)		Field Check (ohm-m)	
Shallow	49.0		49.0	
Deep	31.5		31.5	
Groningen	364.7		364.7	

Laterolog Constants MLE 031			Last Edited on 15-MAY-2007,17:03		
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	Groningen Electrode				
Borehole Correction Constants					
Stand-off	1.00				
Caliper Source	Bit Size				
Hole Size	N/A	inches			
Mud Resistivity Source	Constant Value				
Temp. for Rm Corr.	N/A				

SP Calibration MLE 031				Field Calibration on 4-JUN-2007 15:09
	Measured		Calibrated (mV)	
Reference 1	79.2		79.0	
Reference 2	-75.5		-79.0	

Caliper Calibration MMR 042			Base Calibration on 31-MAY-2007 15:14
			Field Calibration on 2-JUL-2007 12:14
Base Calibration			
Reading No	Measured	Calibrator Size (in)	
1	11875	4.00	
2	15011	5.99	
3	18194	7.98	
4	21638	9.94	
5	25803	12.01	
6	N/A	N/A	
Field Calibration			
	Measured Caliper (in)	Actual Caliper (in)	
	7.97	7.98	

Micro Laterolog Calibration MMR 042				Base Calibration on 4-JUN-2007 14:56
				Field Check on 2-JUL-2007 12:10
Base Calibration				
	Ref 1	Measured	Calibrated (ohm-m)	
		Ref 2	Ref 1	Ref 2
	0.0	9845.1	0.0	128.0
	Base Check (ohm-m)		Field Check (ohm-m)	
	5.2		5.2	

Micro Laterolog Constants MMR 042			Last Edited on 4-JUN-2007,14:54
Micro Laterolog K Factor	0.0128		
Standoff Offset	0.0000	inches	
Borehole Correction Constants			
Mud Cake Source	Constant Value		
Mud Cake Thickness	0.0000	inches	
Mud Cake Thickness Caliper	N/A		
Mud Cake Resistivity	0.1500	ohm-m	

Micro Normal and Micro Inverse Constants MMR 042						
Micro Normal K Factor	0.5110					
Micro Inverse K Factor	0.3380					
Standoff Offset	N/A		inches			
Induction Calibration MAI 088			Base Calibration on 27-NOV-2006,11:40 Field Check on 2-JUL-2007 08:59			
Base Calibration						
Test Loop Calibration		Measured		Calibrated (mmho/m)		
Channel	Low	High	Low	High		
1	15.3	467.1	9.3	966.2		
2	4.6	371.6	7.6	821.4		
3	2.4	248.0	5.2	566.0		
4	0.8	128.6	2.6	279.2		
Array Temperature		19.3	Deg C			
Channel		Base Check (mmho/m)		Field Check (mmho/m)		
	Low	High	Low	High		
1	17.2	3915.2	15.9	3913.4		
2	34.4	3651.1	33.9	3649.8		
3	32.2	3208.9	31.9	3208.0		
4	22.5	2151.2	22.3	2150.8		
Deep	20.1	2106.9	19.8	2106.7		
Medium	46.4	4258.3	45.9	4256.9		
Shallow	51.1	5363.5	50.2	5361.2		
Array Temperature		19.0	12.1	Deg C		
Induction Constants MAI 088			Last Edited on 12-JUN-2007,10:15			
Induction Model		VECTAR				
Caliper for Borehole Corr.		Bit Size				
Hole Size for Borehole Correction		N/A		inches		
Stand-off		2.00		inches		
Number of Fins on Stand-off		6.0000				
Stand-off Fin Width		0.5000		inches		
Borehole Corr. Rm Source		Temperature Corr				
Temp. for Rm Corr.		MCG External Temperature				
Squasher Start		0.0020		mhos/metre		
Borehole Normalisation						
DRM1	0.0000	DRC1	0.0000			
DRM2	0.0000	DRC2	0.0000			
MRM1	0.0000	MRC1	0.0000			
MRM2	0.0000	MRC2	0.0000			
SRM1	0.0000	SRC1	0.0000			
SRM2	0.0000	SRC2	0.0000			
Calibration Site Corrections						
Channel 1	0.00		mmhos/metre			
Channel 2	0.00		mmhos/metre			
Channel 3	0.00		mmhos/metre			
Channel 4	0.00		mmhos/metre			
Apparent Porosity and Water Saturation Constants						
Archie Constant (A)		1.00				
Cementation Exponent (M)		2.00				
Saturation Exponent (N)		2.00				
Saturation of Water for Apor		100.00	percent			
Resistivity of Water for Apor and Sw		0.05	ohm-m			
Resistivity of Mud Filtrate for Sw		0.00	ohm-m			
High Resolution Temperature Calibration MAI 088			Field Calibration on 21-AUG-2004,11:08			
	Measured	Calibrated(Deg C)				
Lower	0.00	0.00				
Upper	100.00	100.00				
High Resolution Temperature Constants MAI 088						
Pre-filter Length		11				

Compact Stiff Bridle Electrode Sub.
MBE 6 Length: 3.76 m Weight: 77.2 lb

Compact Stiff Bridle Electrode Sub.
MBE 19 Length: 3.76 m Weight: 77.2 lb

Compact Gamma
MCG 142 Length: 2.65 m Weight: 63.9 lb

Compact Sonic
MSS 66 Length: 3.82 m Weight: 72.8 lb

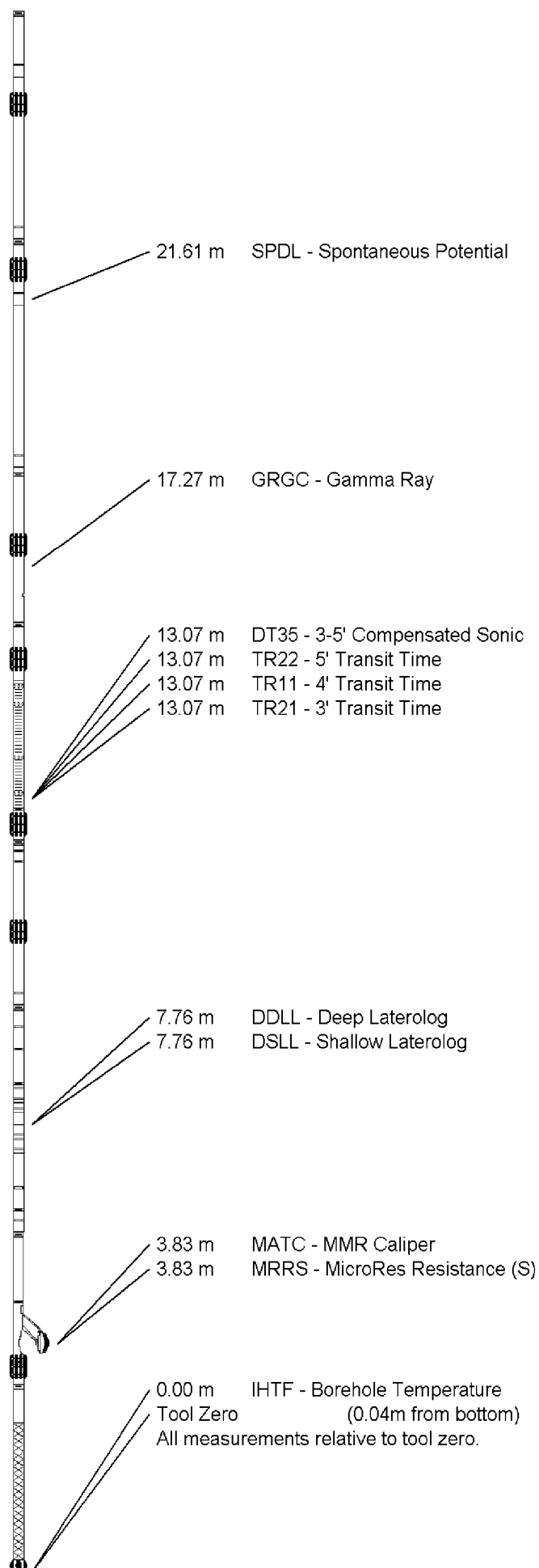
Compact Upper Guard Sub.
MUG 30 Length: 2.74 m Weight: 68.3 lb

Compact Laterolog Electrode Sub.
MLE 31 Length: 3.76 m Weight: 92.6 lb

Compact Micro-Resistivity
MMR 42 Length: 2.62 m Weight: 81.6 lb


Compact Induction
MAI 88 Length: 3.29 m Weight: 48.5 lb

Total Length: 26.40 m Weight: 582.0 lb



COMPANY
WELL
FIELD

LAKES OIL N.L.
BOOLA BOOLA 2
WILDCAT

PROVINCE/COUNTY		VICTORIA			
COUNTRY/STATE		AUSTRALIA			
Elevation Kelly Bushing	45.20	metres	First Reading	1700.00	metres
Elevation Drill Floor	45.00	metres	Depth Driller		metres
Elevation Ground Level	40.00	metres	Depth Logger	1713.00	metres
 Weatherford [®]		GAMMA , COMPENSATED SONIC			
		DUAL LATEROLOG			
		1:200			