



# DUAL LATEROLOG - MLL COMPENSATED SONIC - TAC

1:200

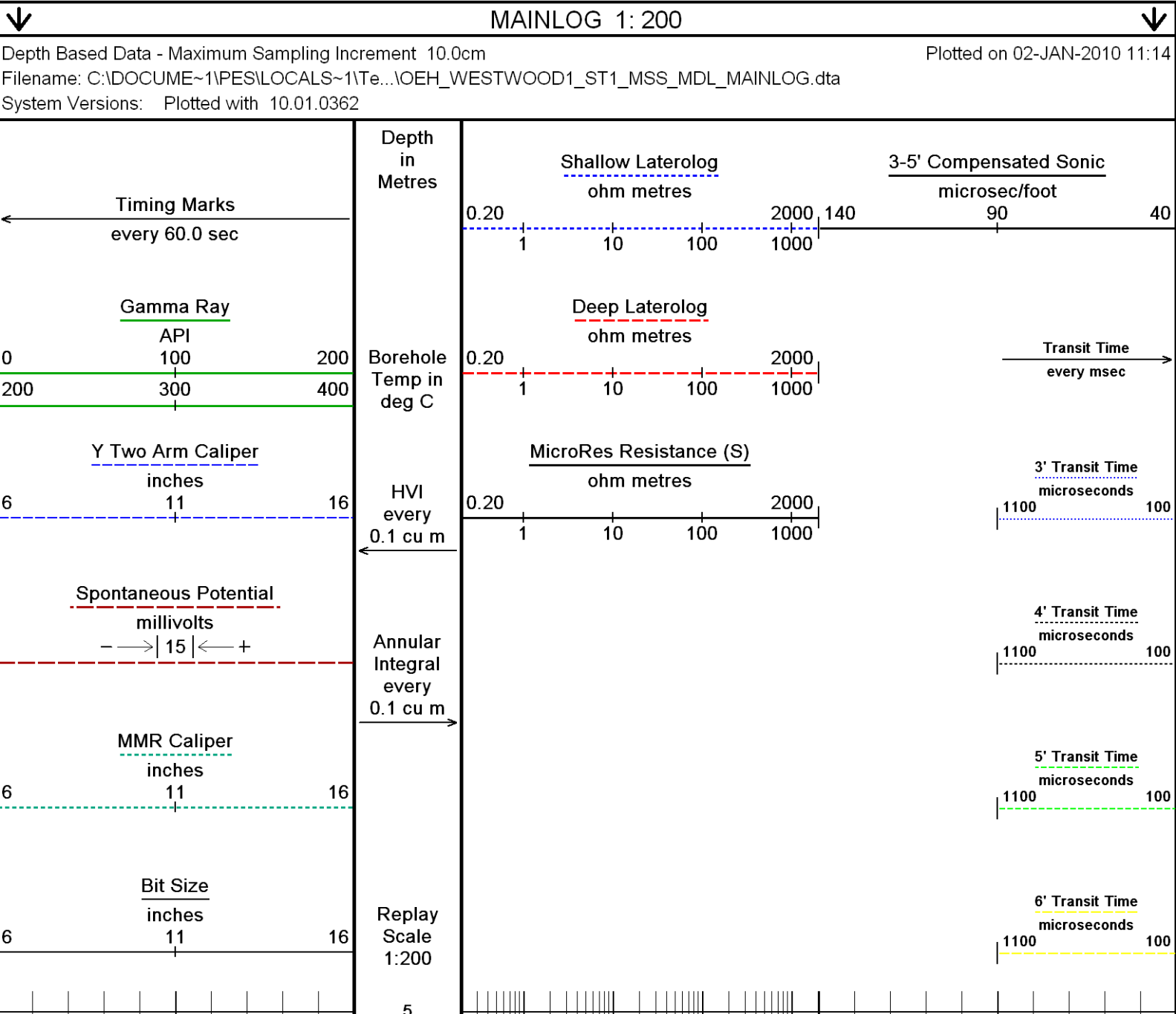
COMPANY	OEH			
WELL	WESTWOOD 1 - ST1			
FIELD	N/A			
PROVINCE/COUNTY	TASMANIA			
COUNTRY/STATE	AUSTRALIA			
LOCATION	EASTING 502839.2m (MGA 94) NORTHING 6804958.7m (MGA 94)			
Latitude	41° 31' 9.3" S	Other Services		
Longitude	147° 21' 2.5"E	NONE		
Permanent Datum M.S.L., Elevation 0.0 metres				
Log Measured From D.F., 149 M above Permanent Datum				
Drilling Measured From D.F.				
Date	1-JAN-2010	Elevations: KB 149.00 DF 145.00 GL		
Run Number	ONE			
Depth Driller	1679.00	metres		
Depth Logger	1678.00	metres		
First Reading	1677.15	metres		
Last Reading	5.00	metres		
Casing Driller	338.00	metres		
Casing Logger	337.50	metres		
Bit Size	8.500	inches		
Hole Fluid Type	KCL/Polymer			
Density / Viscosity	9.30 ppg	41.00 sec/qt		
PH / Fluid Loss	10.60	6.80 ml/30Min		
Sample Source	MUD PIT			
Rm @ Measured Temp	0.54 @ 25.0	ohm-m		
Rmf @ Measured Temp	0.49 @ 25.0	ohm-m		
Rmc @ Measured Temp	0.84 @ 25.0	ohm-m		
Source Rmf / Rmc	PRESS	FILTER		
Rm @ BHT	0.30 @ 61.0	ohm-m		
Time Since Circulation	10.25			
Max Recorded Temp	61.00	deg C		
Equipment Name	COMPACT			
Equipment / Base	2	ROMA		
Recorded By	S. LUTTER			
Witnessed By	L. BURGESS			
Last Circulation	06:15/01-JAN			

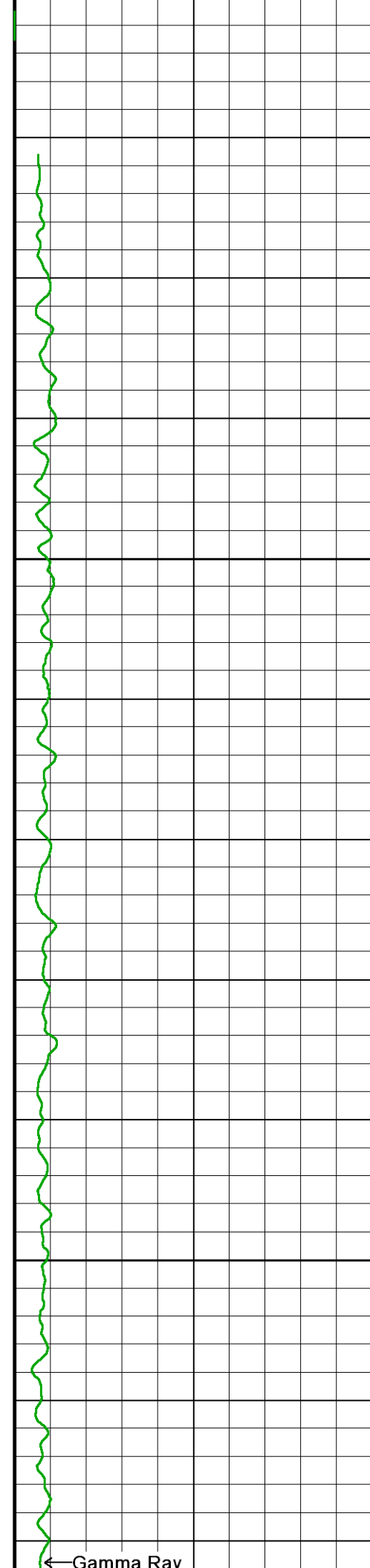
BOREHOLE RECORD			Last Edited: 2-JAN-2010 11:12
Bit Size inches	Depth From metres	Depth To metres	
8.500	338.00	1679.00	
CASING RECORD			
Type	Size inches	Depth From metres	Shoe Depth metres
SURFACE	9.625	0.00	338.00
Weight pounds/ft			
36.00			

REMARKS
# RUN NUMBER 1 IS THE PRIMARY DEPTH REFERENCE LOG. ALL OTHER RUNS ARE CORRELATED BACK TO THIS LOG.
# SOFTWARE ISSUE: VERSION 10.06.0425 - 20 AUGUST 2009.
# RUN 1 - HFS, MMR, MLE, MUG, MSS, MTC, MCG, MBE, MBE TOOLS RAN IN COMBINATION.
# HARDWARE: - MMR: 2 x 1.0" STANDOFFS. - MUG: 1 x 1.0" STANDOFFS. - MBE: 1 x 1.0" STANDOFFS. - MBE: 1 x 1.0" STANDOFFS.
# SERVICE REPORT NUMBER: 50706426.
# RIG: HUNT ENERGY.
# TOTAL HOLE VOLUME (HVOL) FROM T.D. TO SURFACE CASING = 53.2 CUBIC METRES.
# TOTAL ANNULAR VOLUME (AVOL) WITH 7.0" PRODUCTION CASING = 20 CUBIC METRES.

# SONIC CASING SIGNAL OBSERVED AT 335 METRES.  
- LARGE AMOUNTS OF ROAD NOISE OBSERVED OFF BOTTOM. SAME RESULTS ON DOWNLOG.  
# TWO ARM CALIPER READING UNDERGAGE OFF BOTTOM DUE TO TOOL ECCENTRALIZATION.  
# CALIPERS CLOSED AT 1040 METRES TO FIX DRUM WRAP.  
# NO UPHOLE TENSION CURVE. DOWNHOLE TENSION AND RIG DEADLINE TENSION CLOSELY MONITORED THROUGHOUT THE OPERATION.  
# SP BASELINE SHIFT AT 622 METRES.  
# RUN 1 ON BOTTOM 16:35, 1 JANUARY 2010.  
# LOGGING UNIT J-FACTOR FOR HLU002: 0.5080.  
# LOGGING CREW: ENGINEER 1 - S. LUTTER, ENGINEER 2 - B. MILLSOMM, OPERATOR - D. TODD.

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.





10

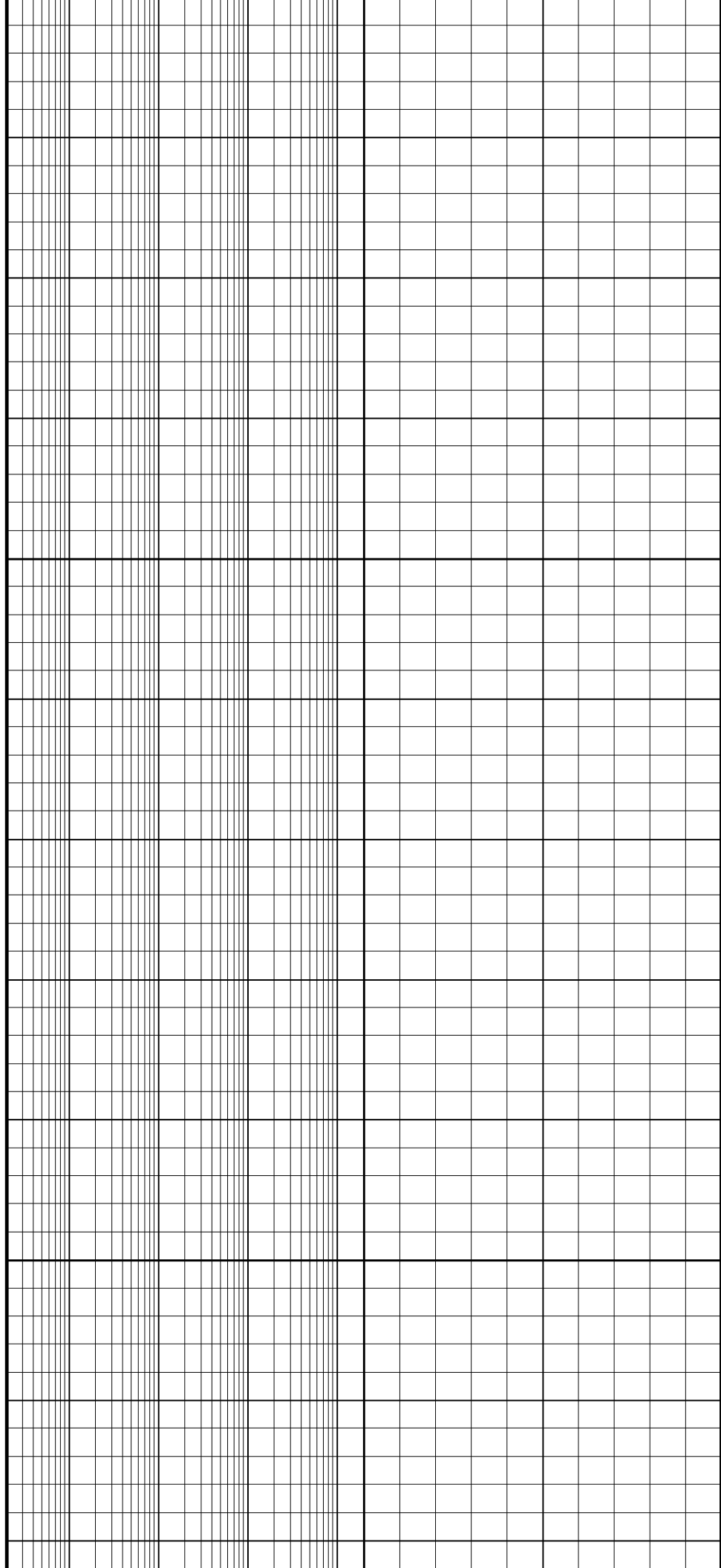
20

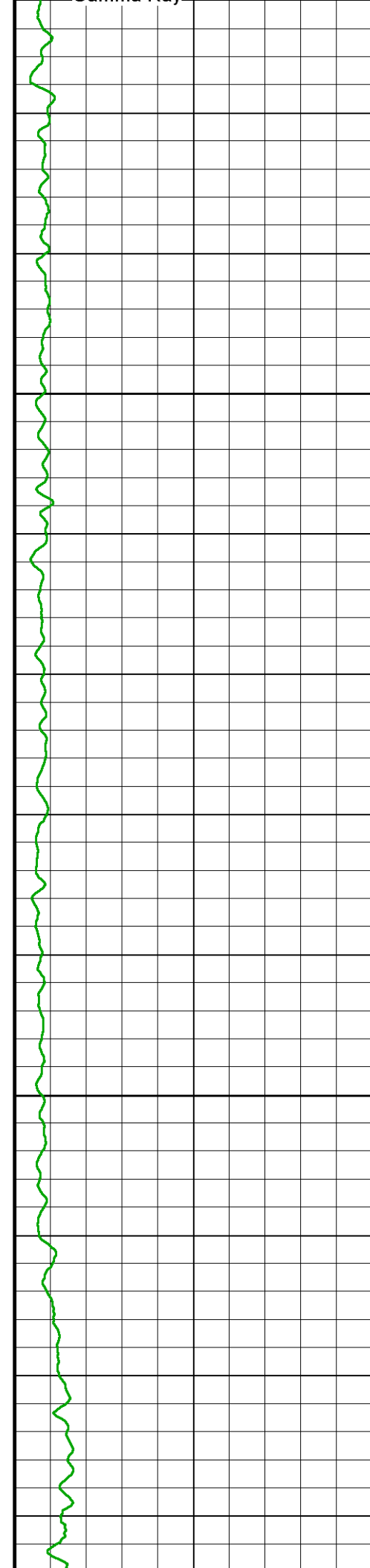
30

40

50

60





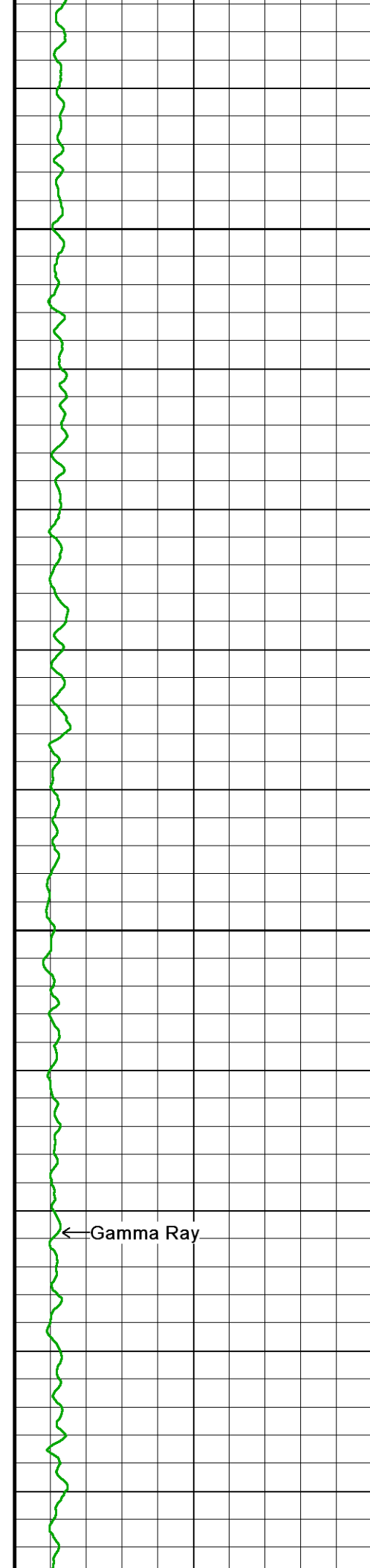
70

80

90

100

110



120

130

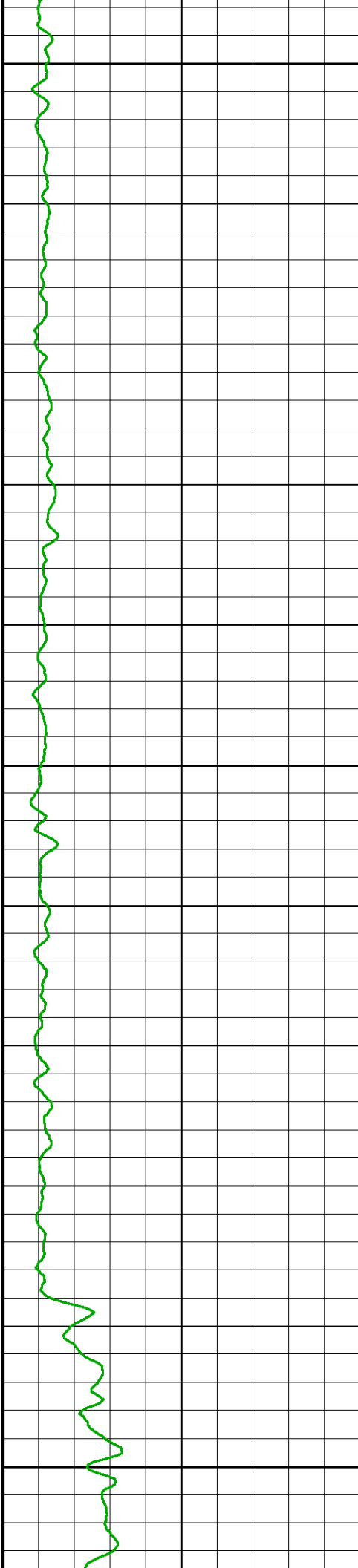
140

150

160

170

← Gamma Ray



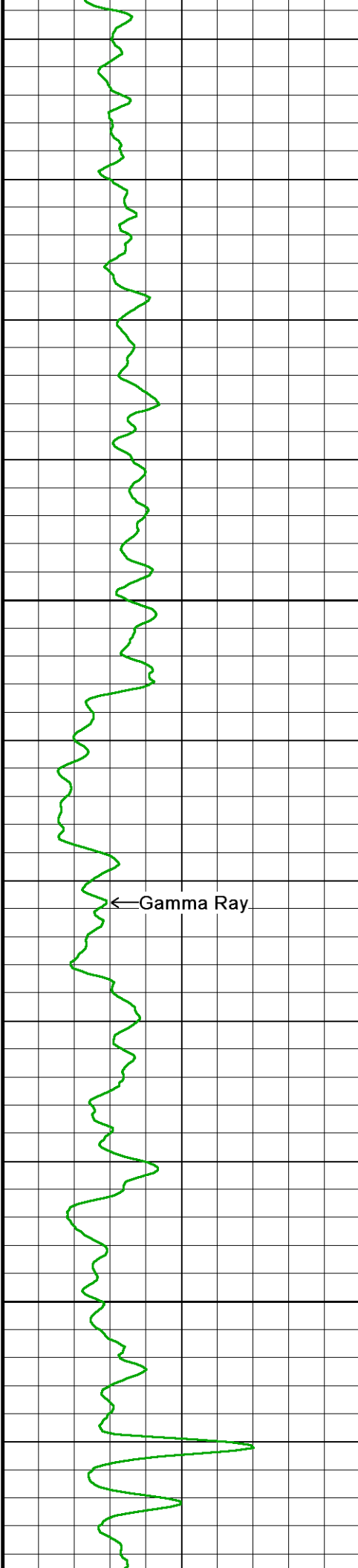
180

190

200

210

220



230

240

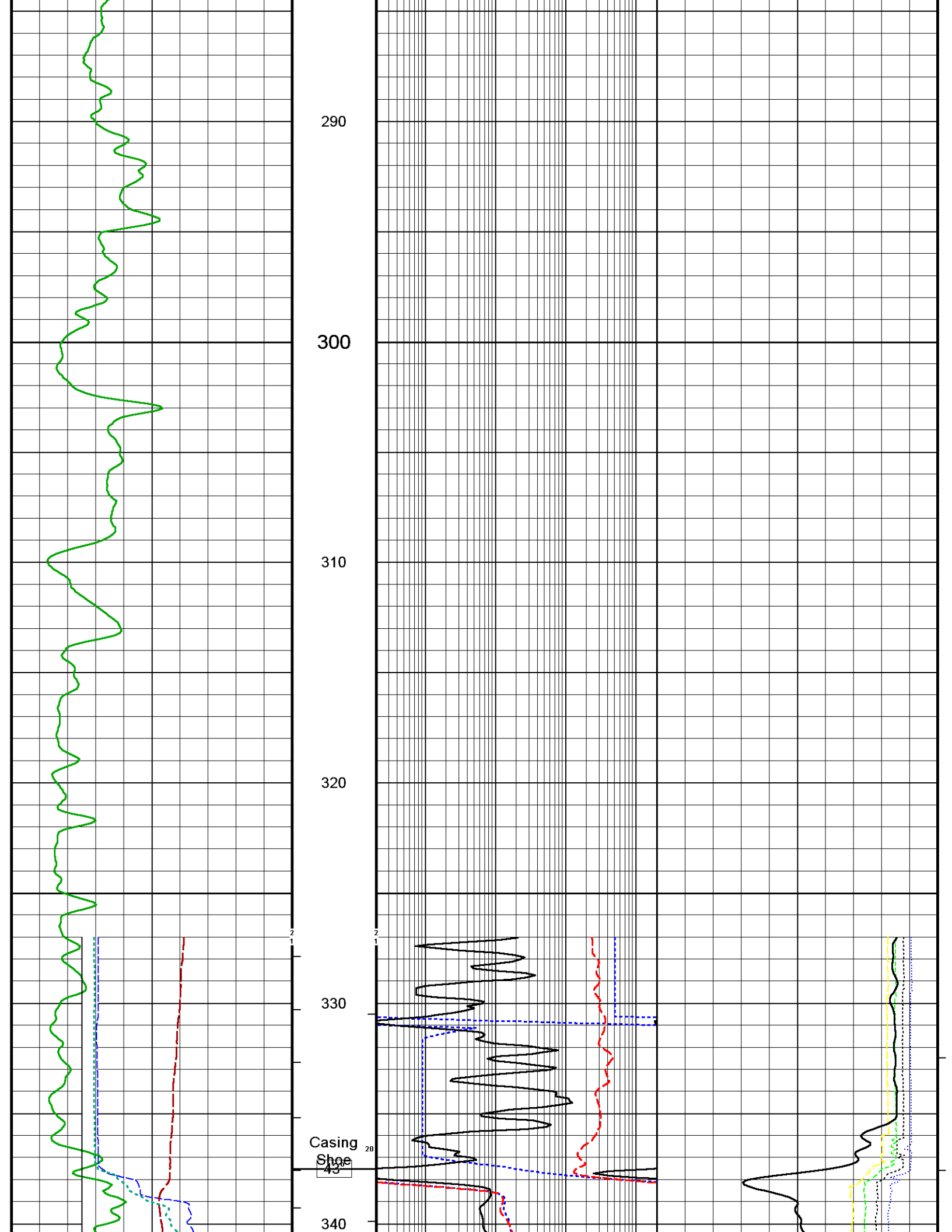
250

260

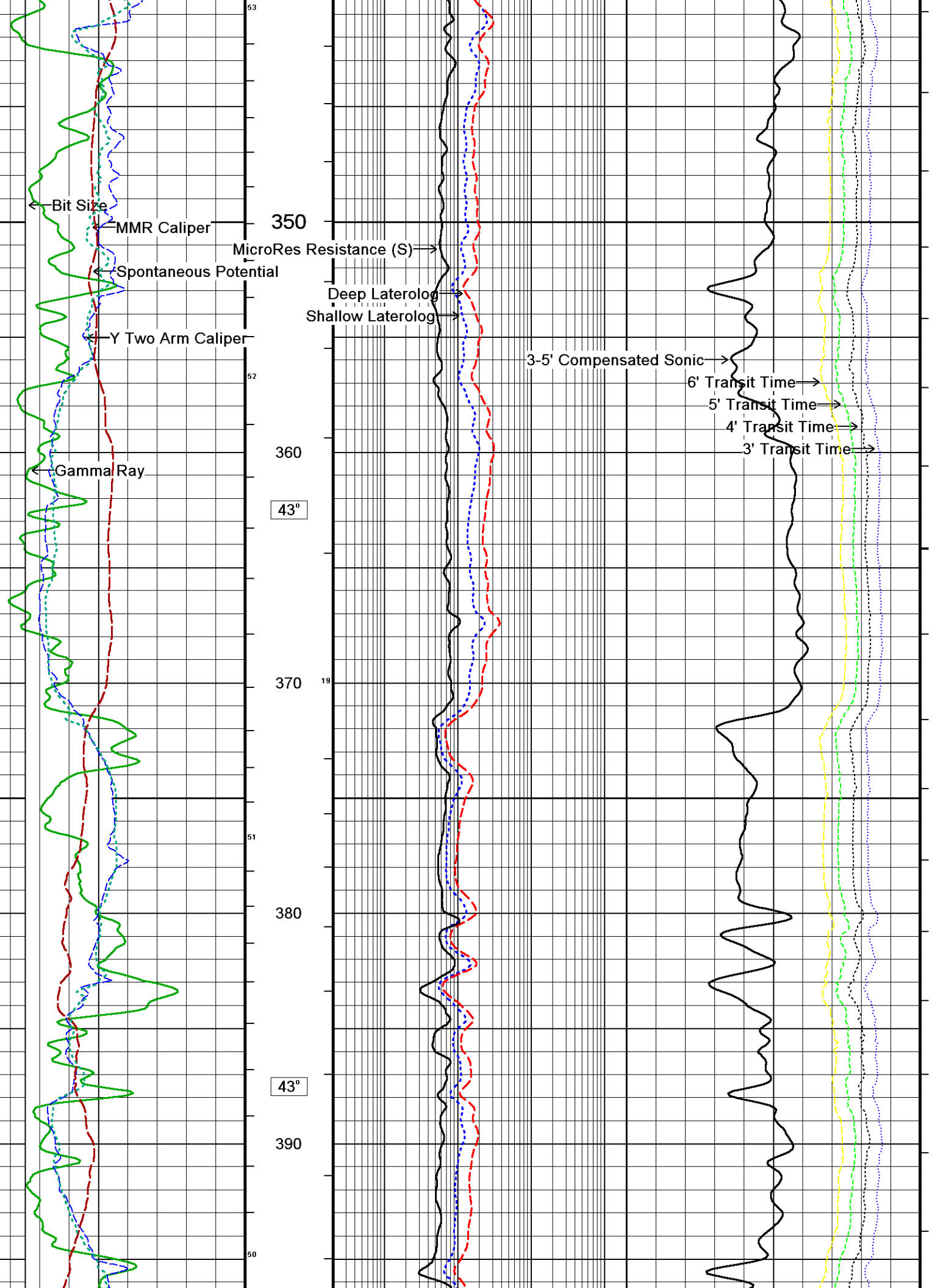
270

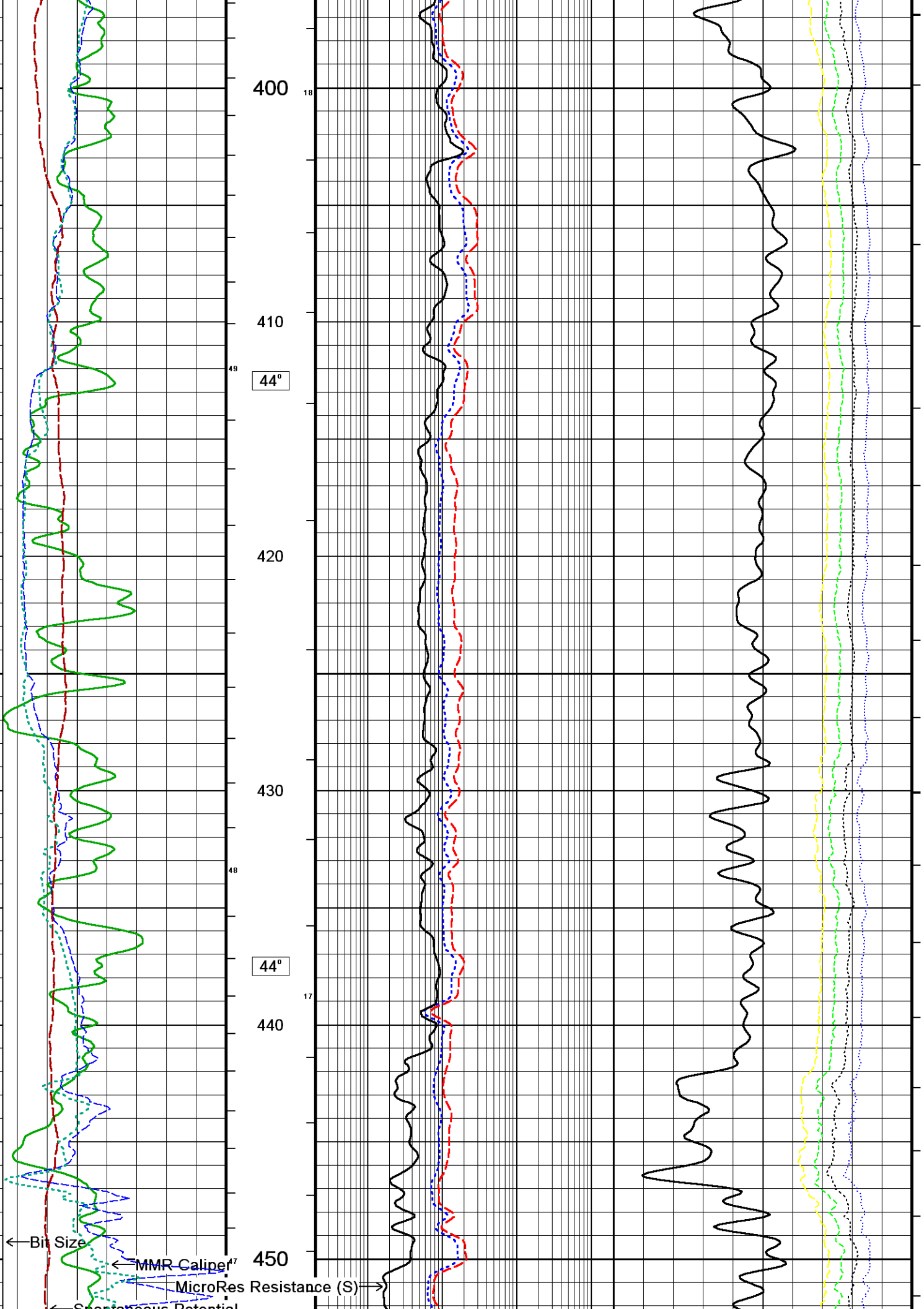
280

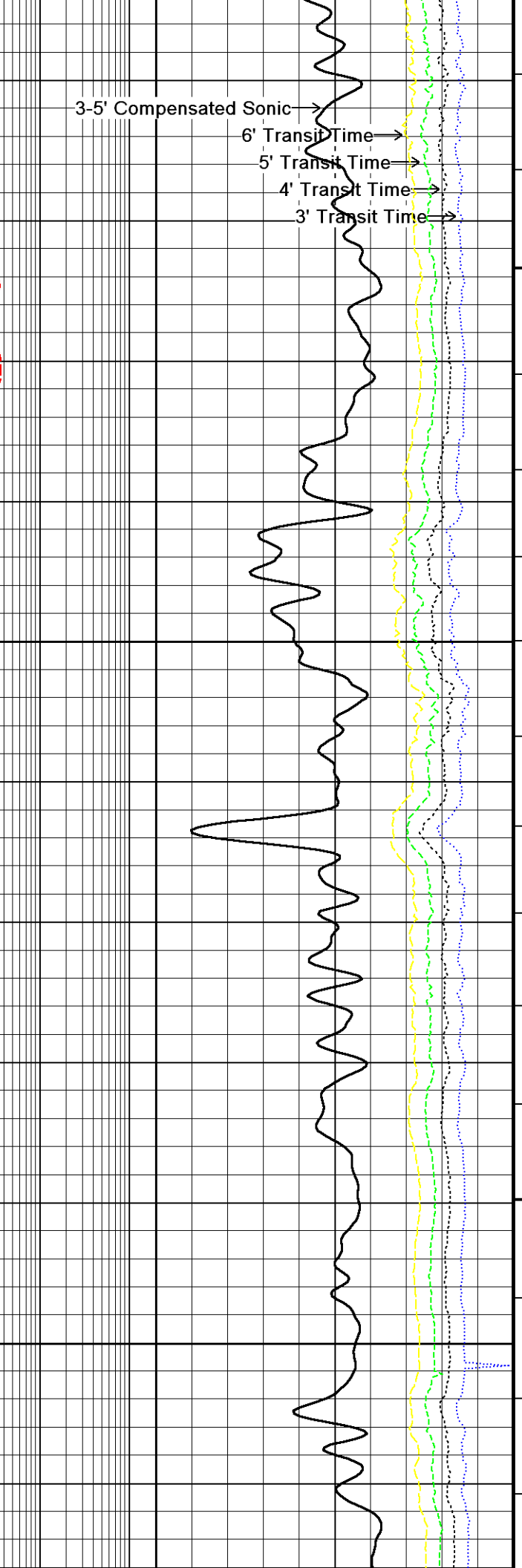
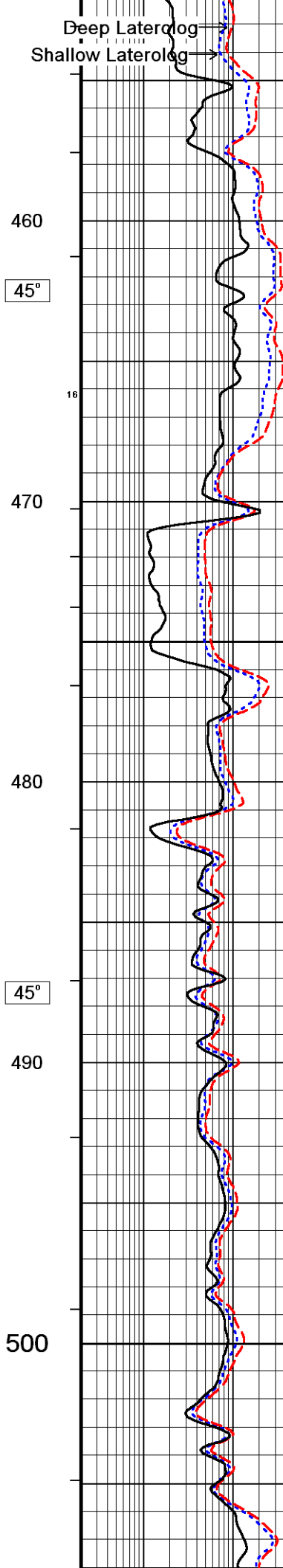
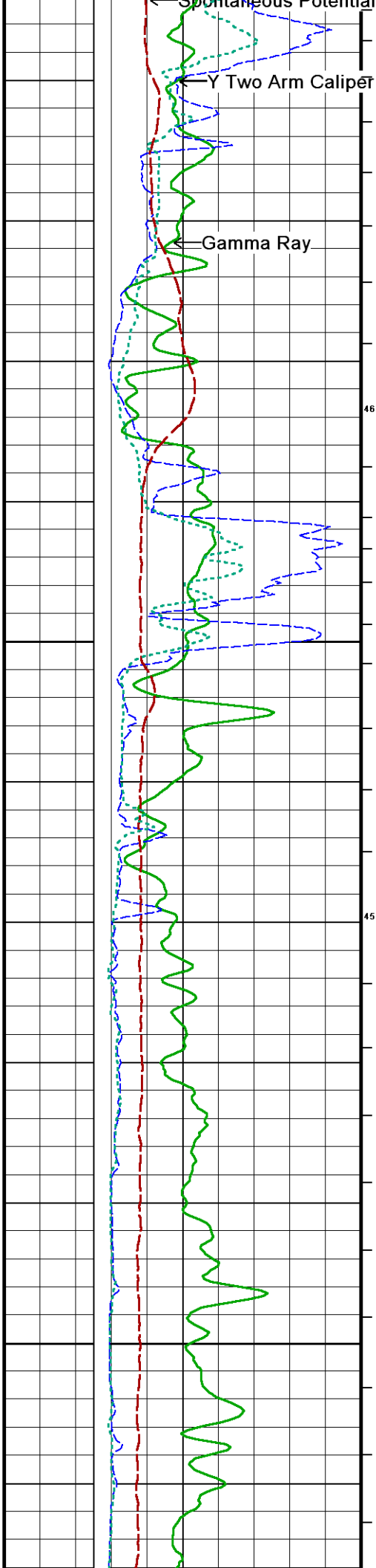
← Gamma Ray

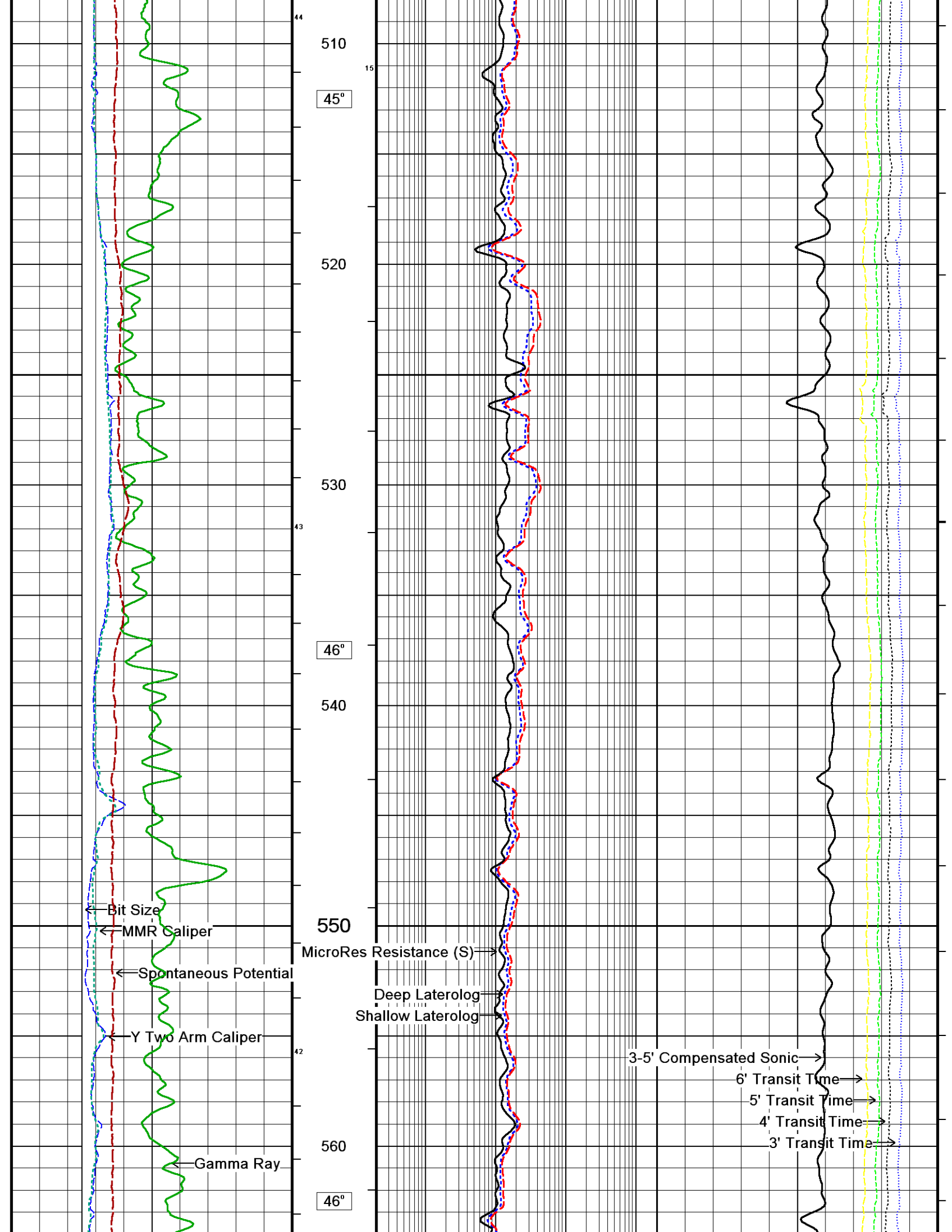


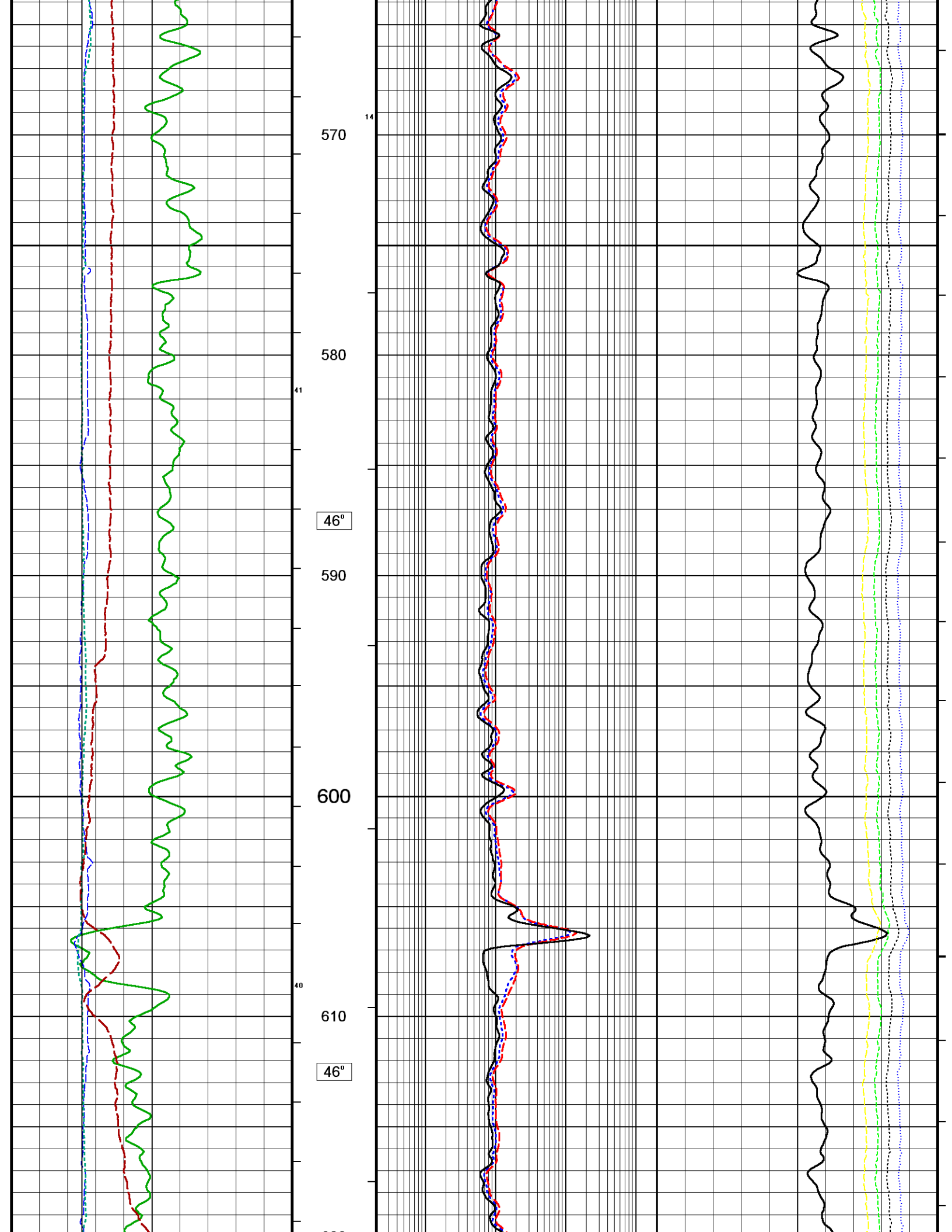


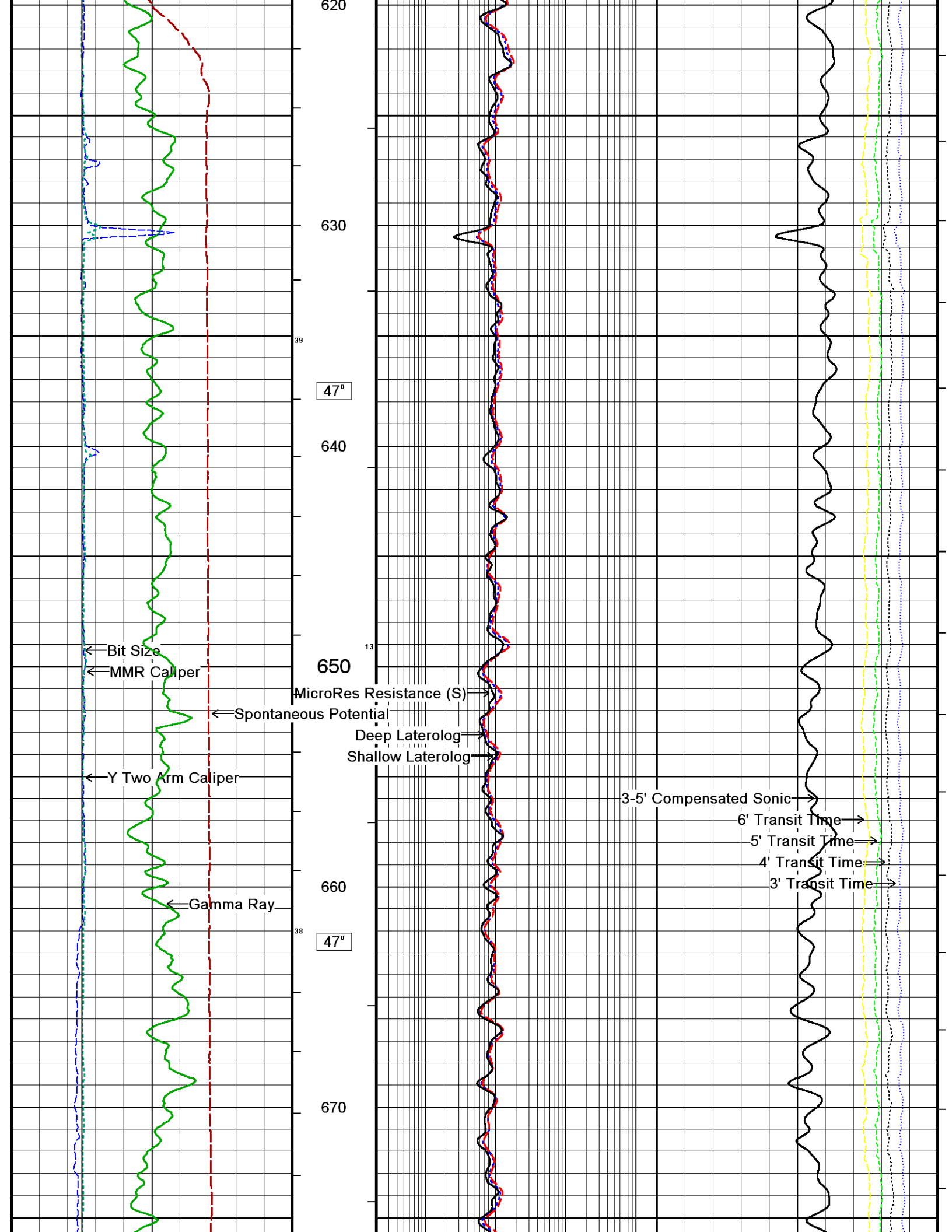


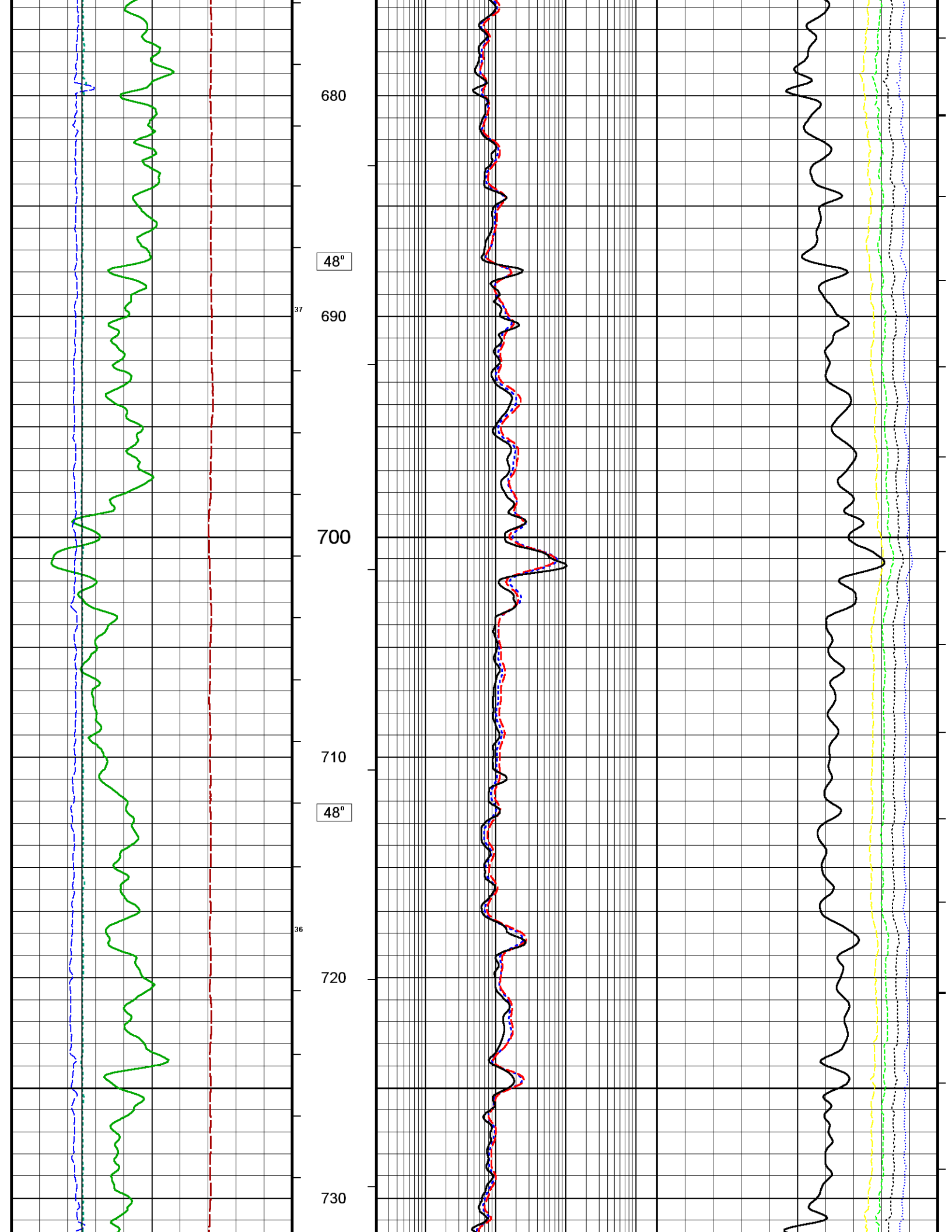


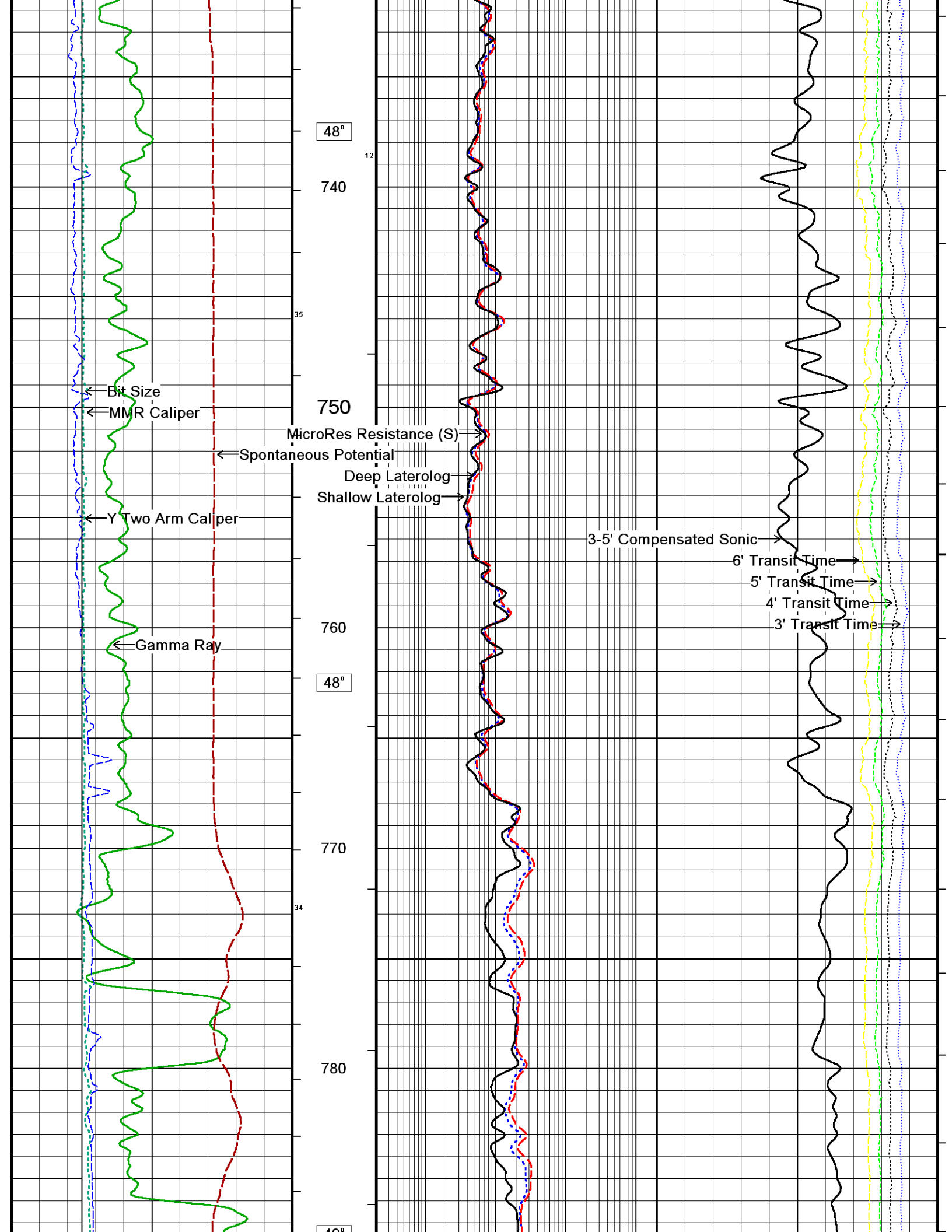




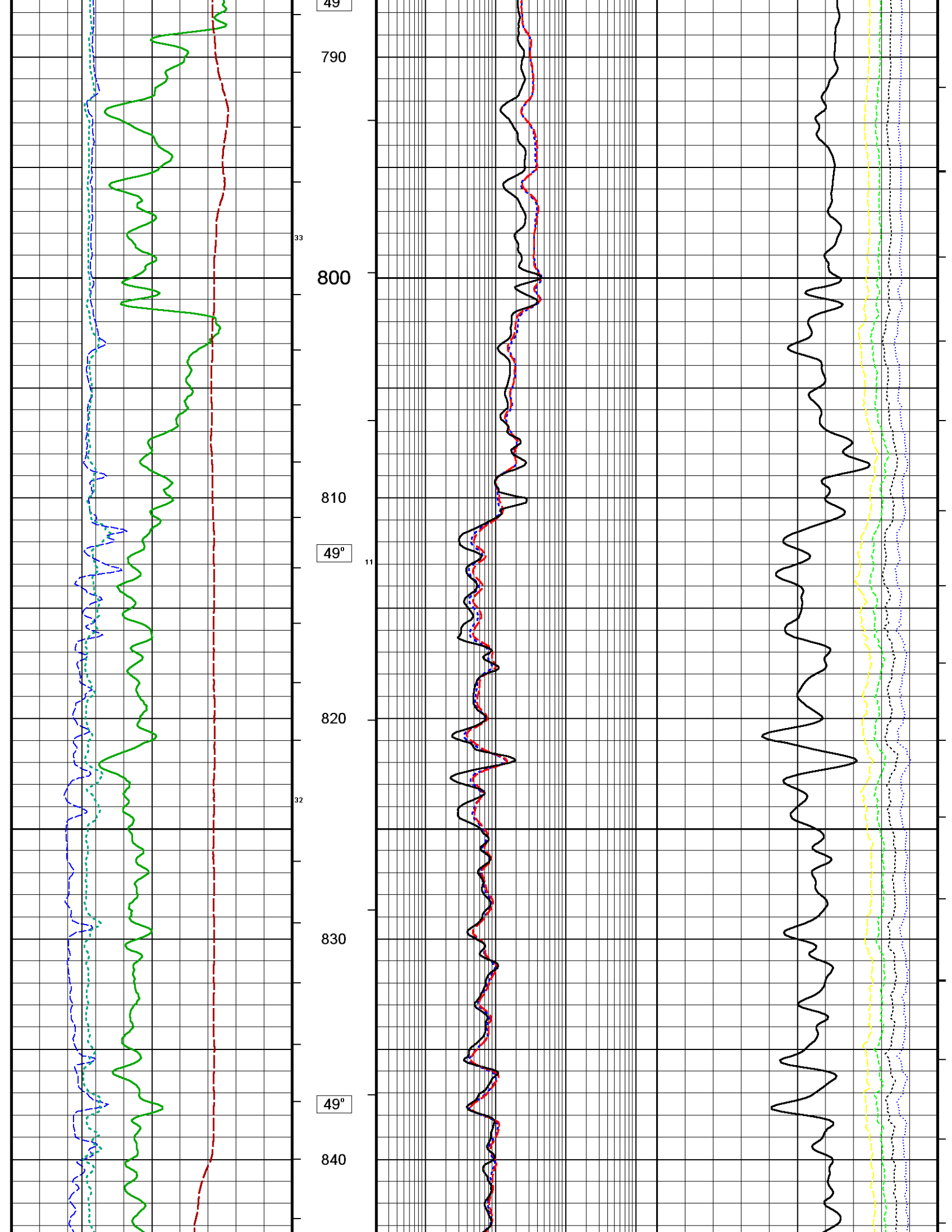


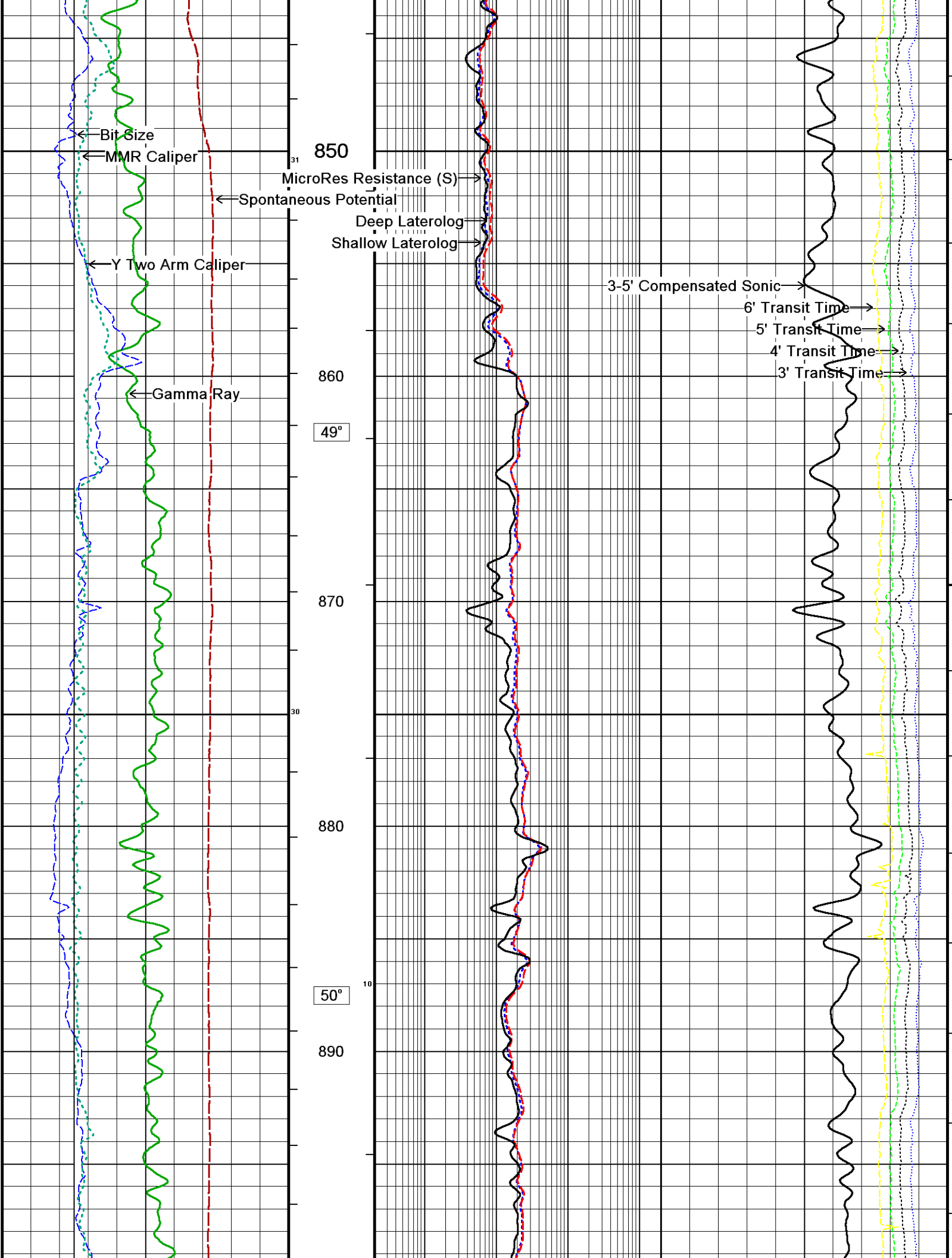


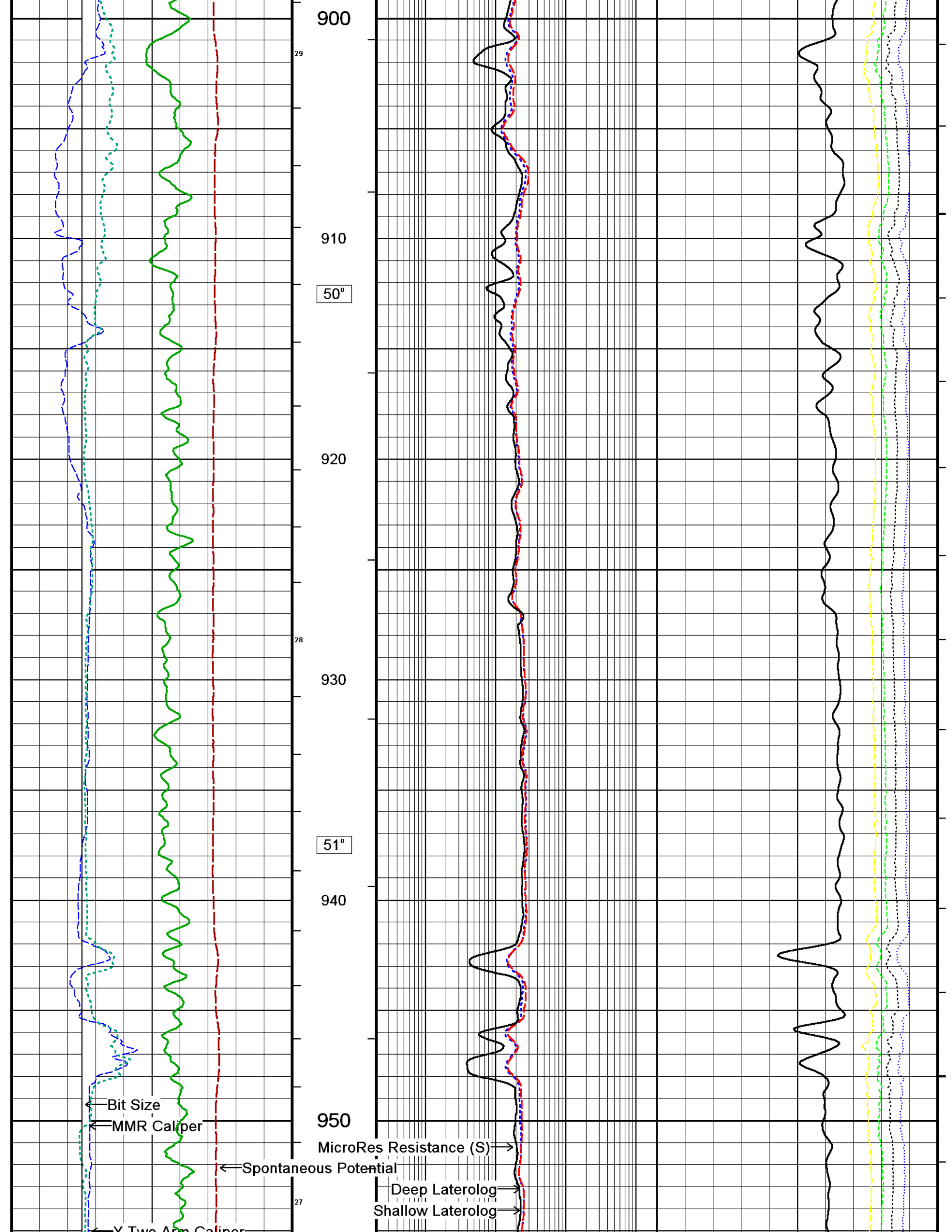


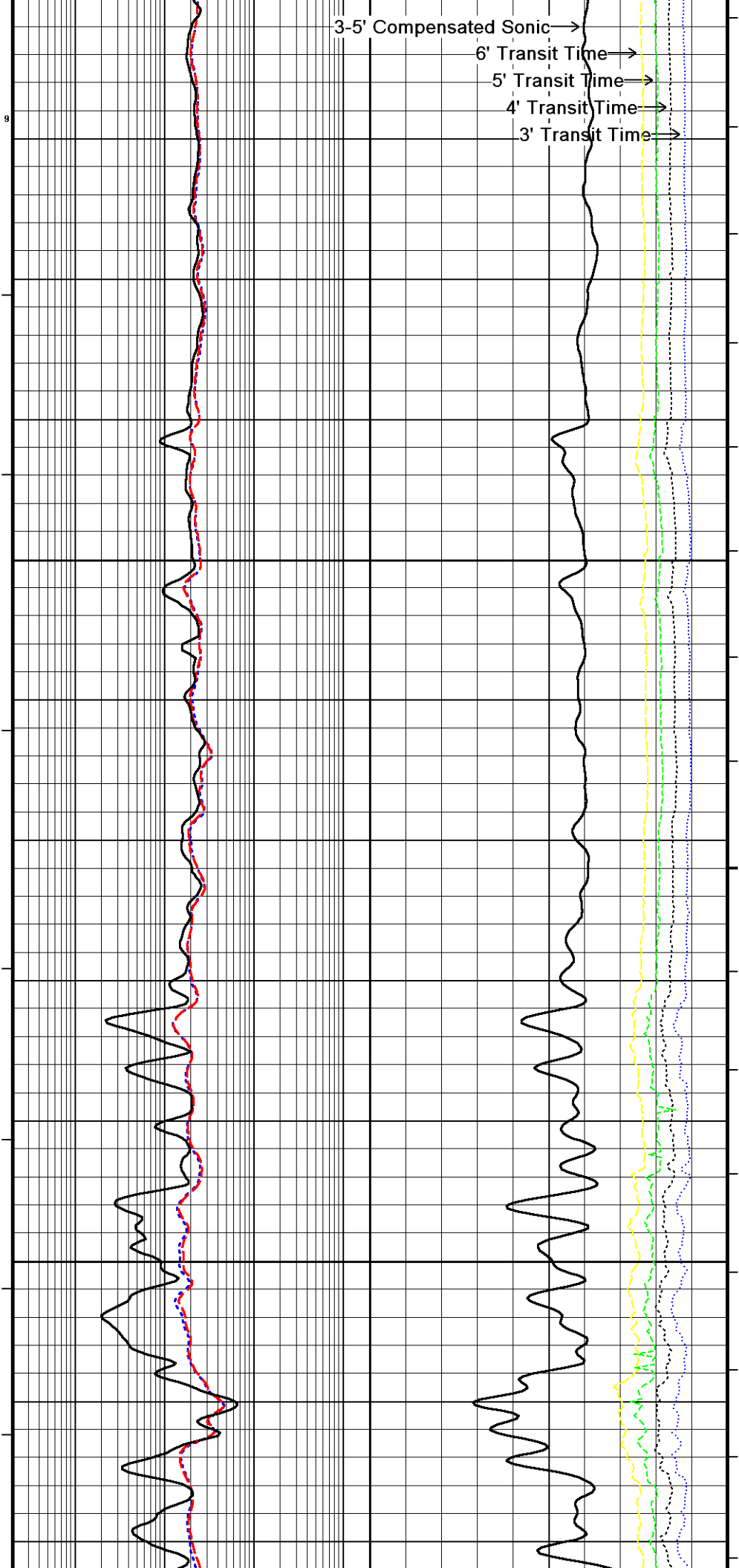
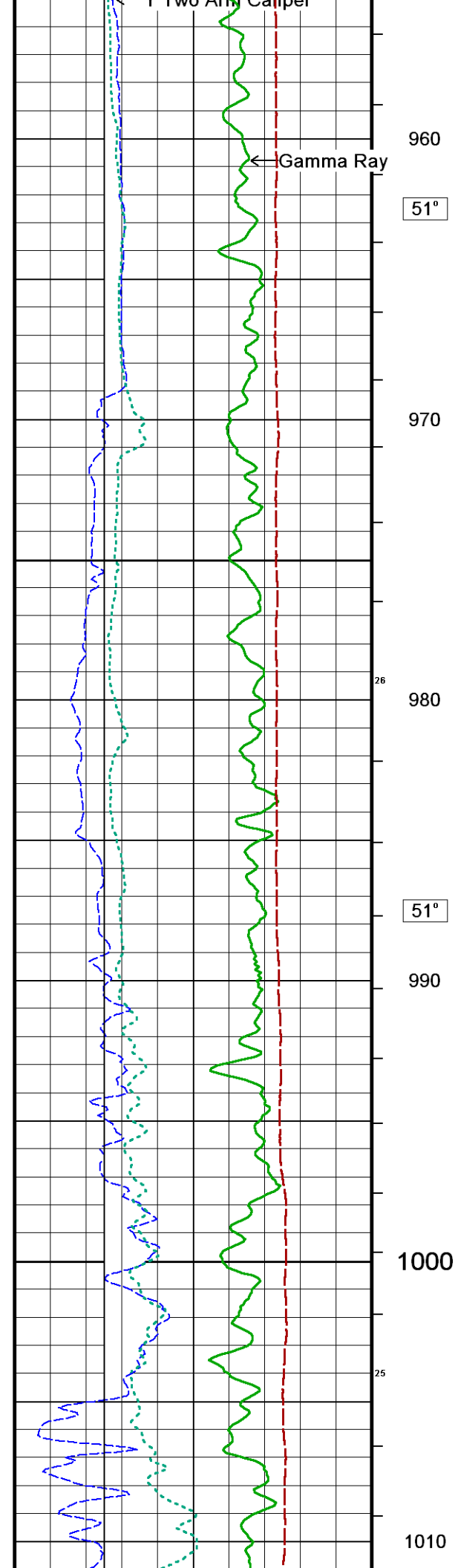


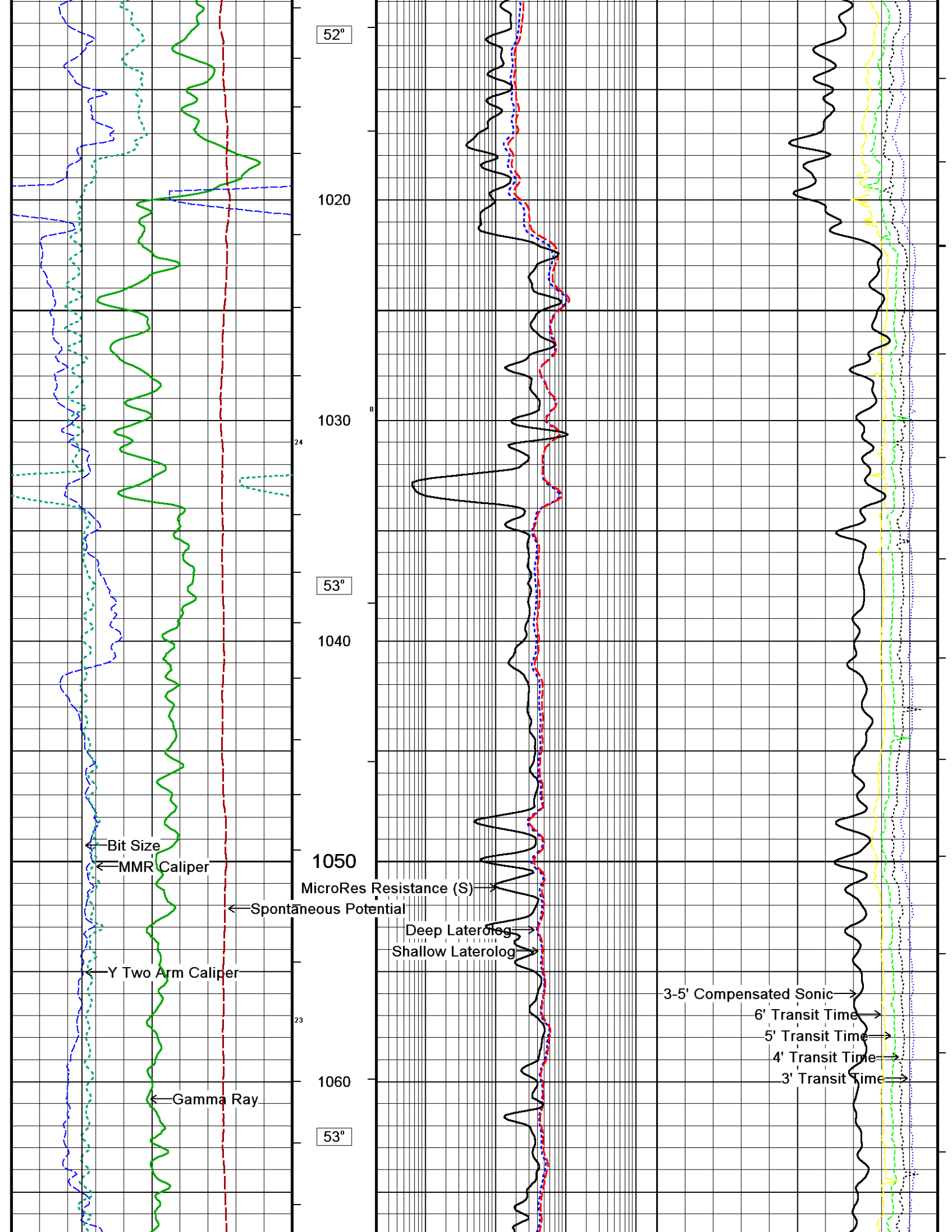


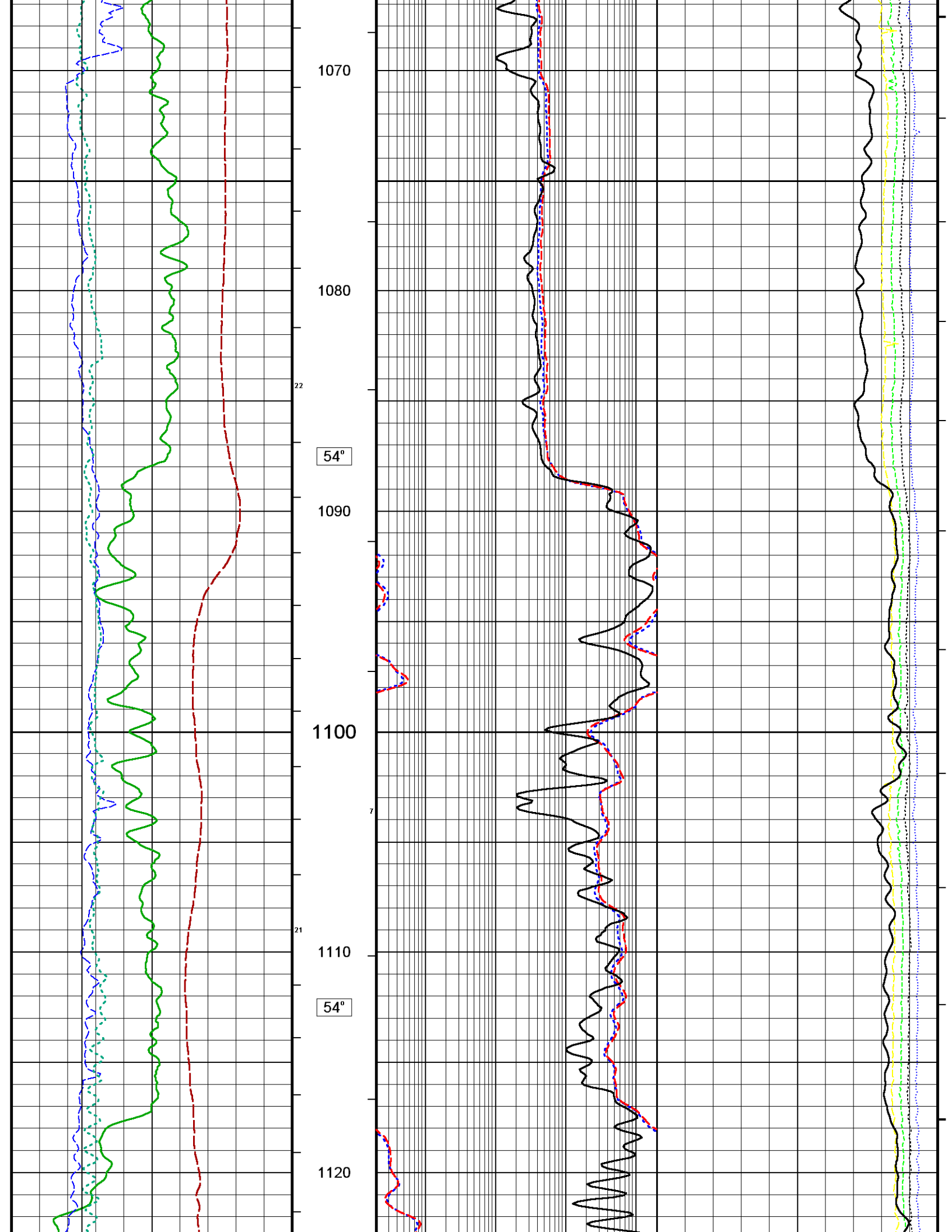


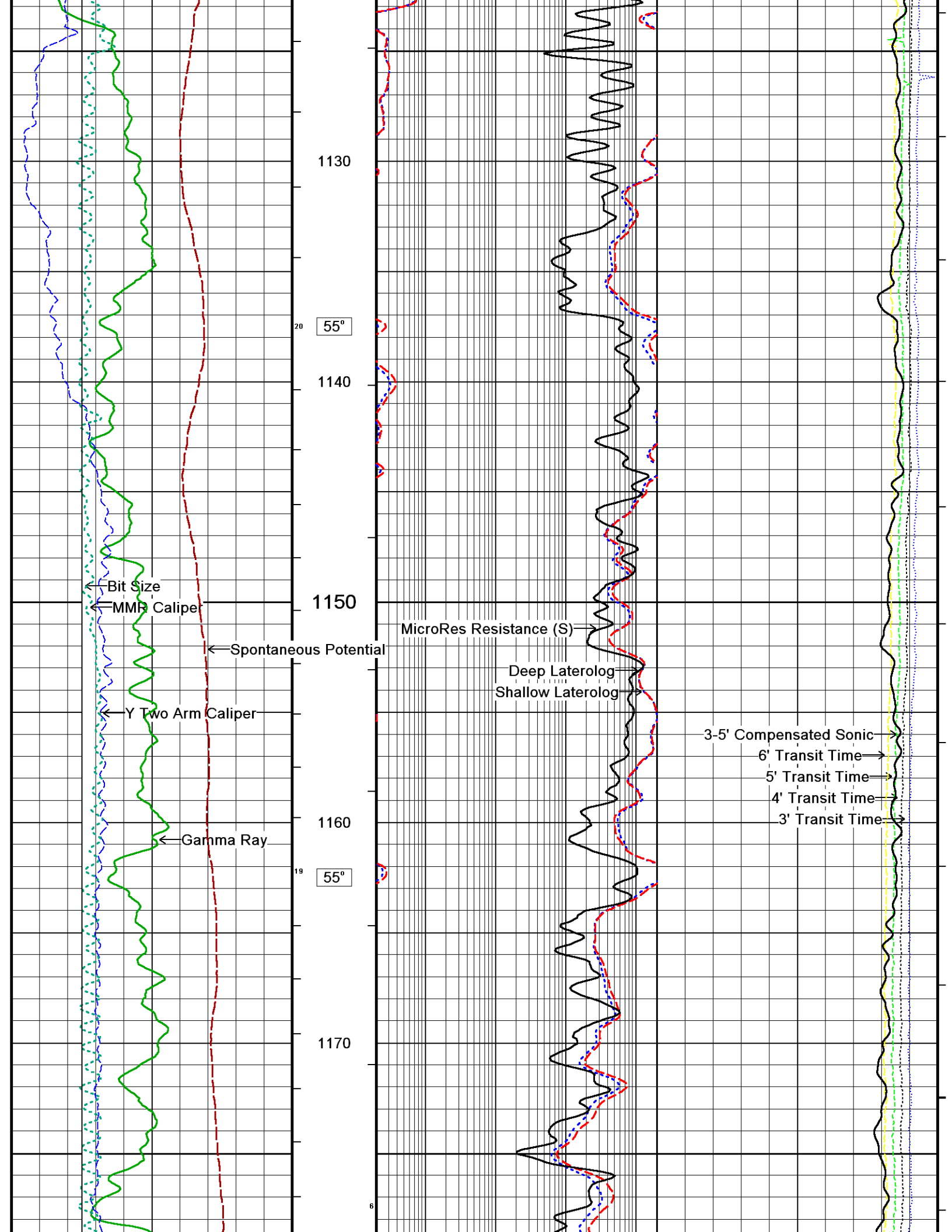


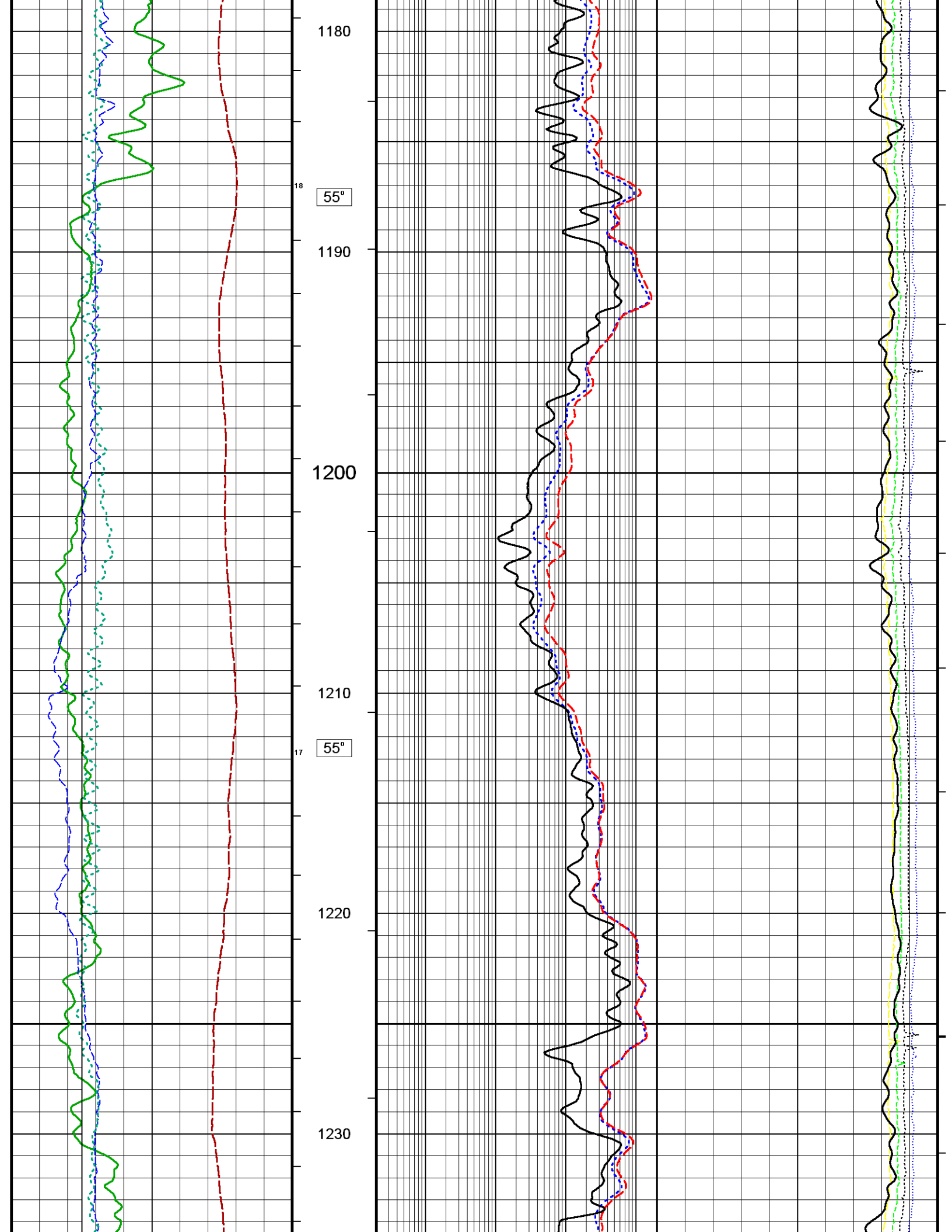




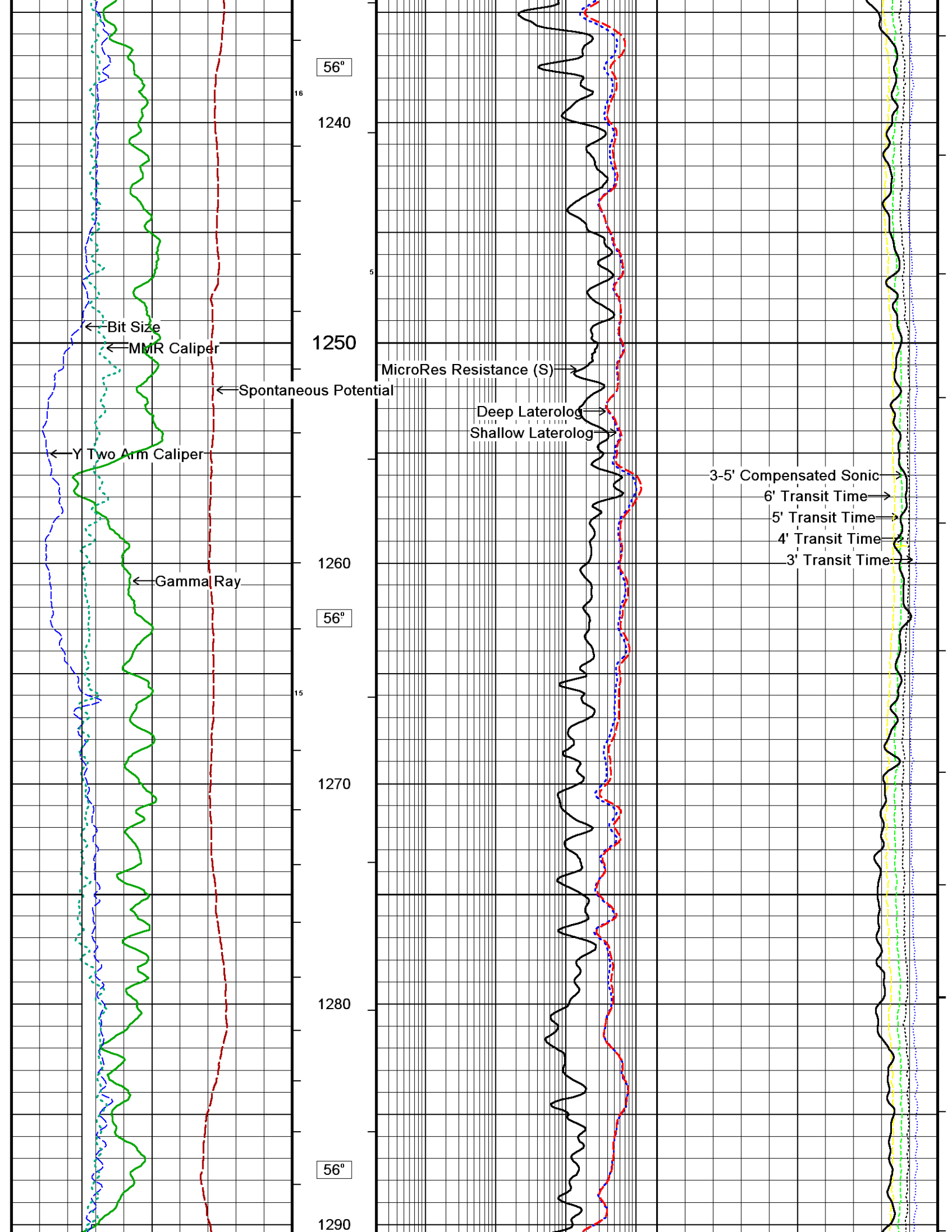


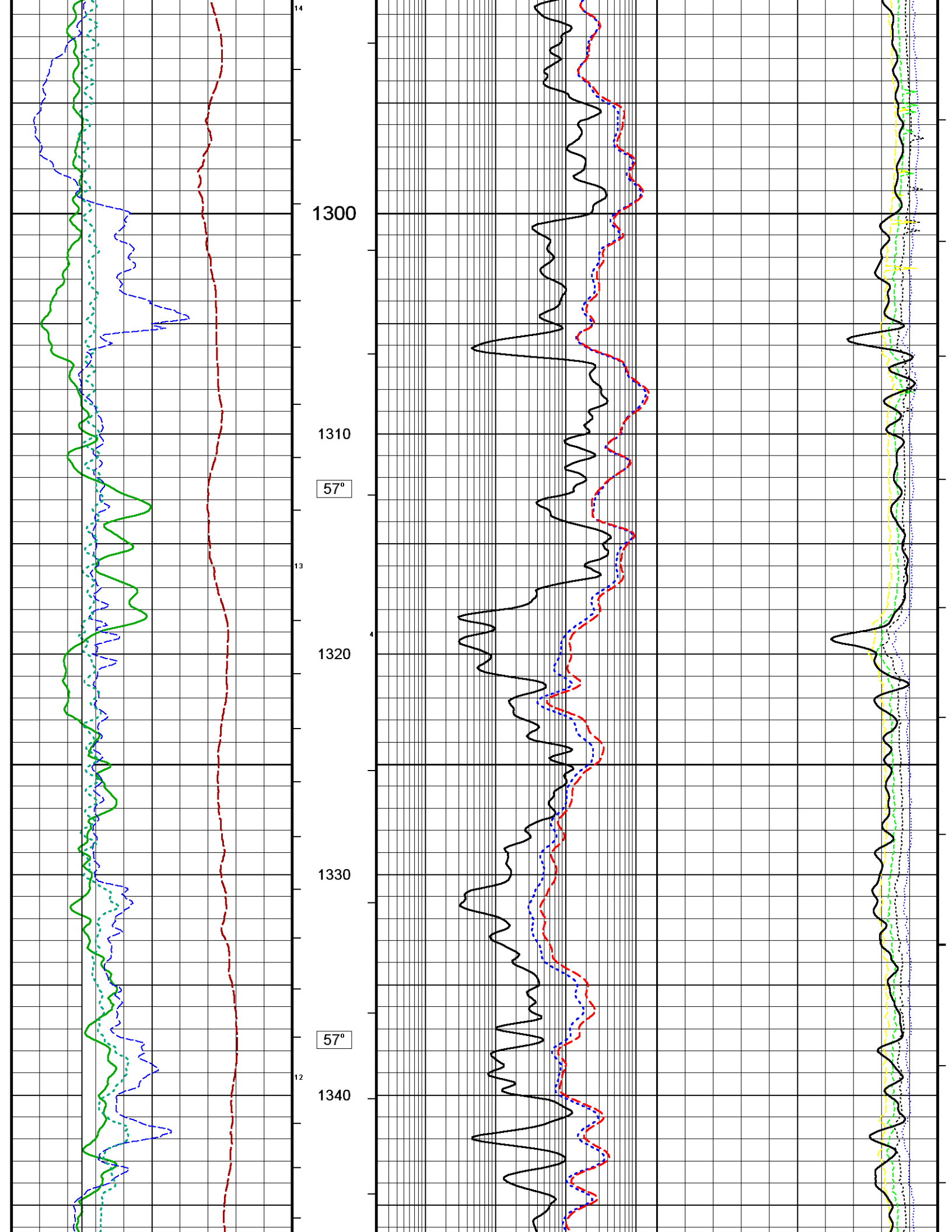


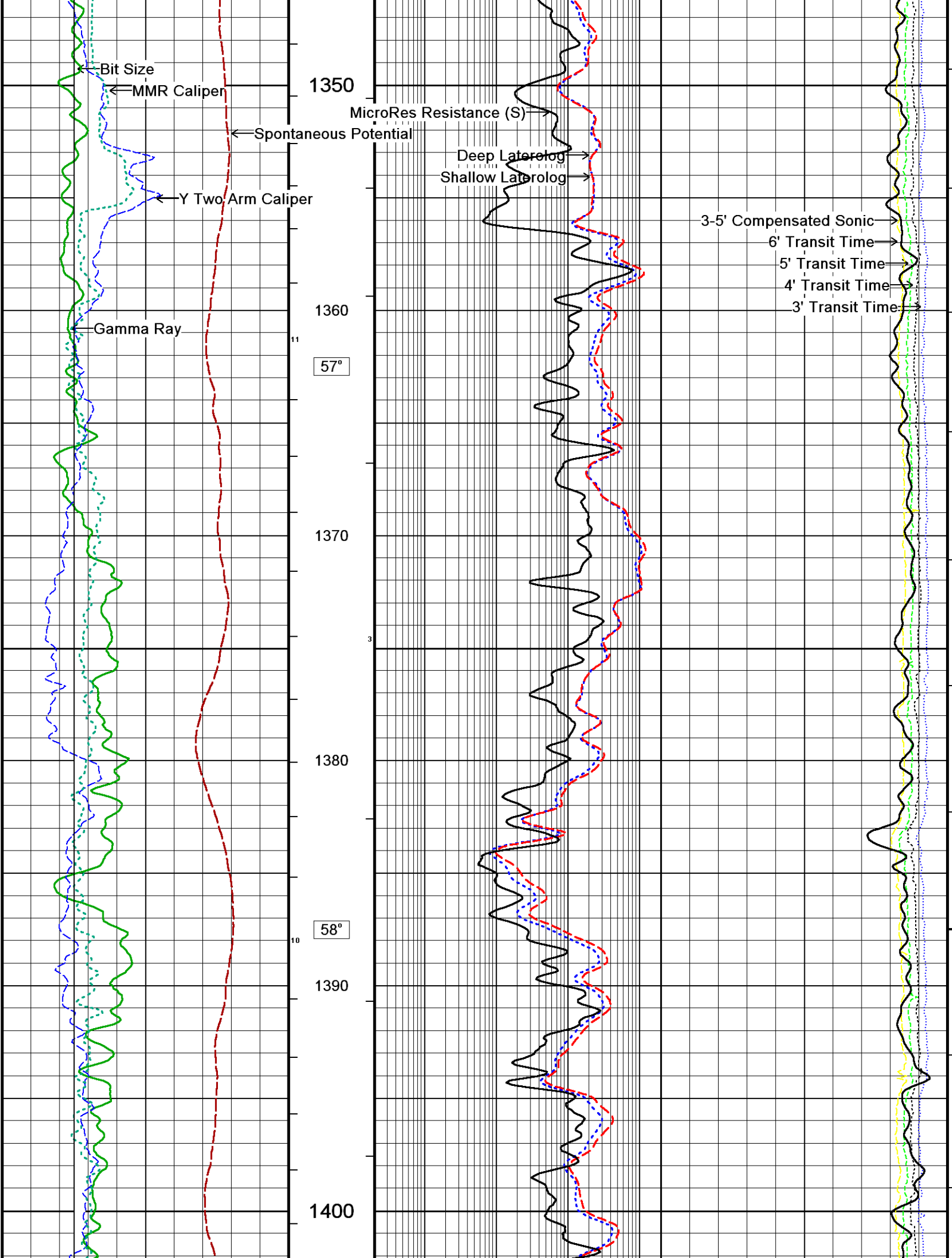


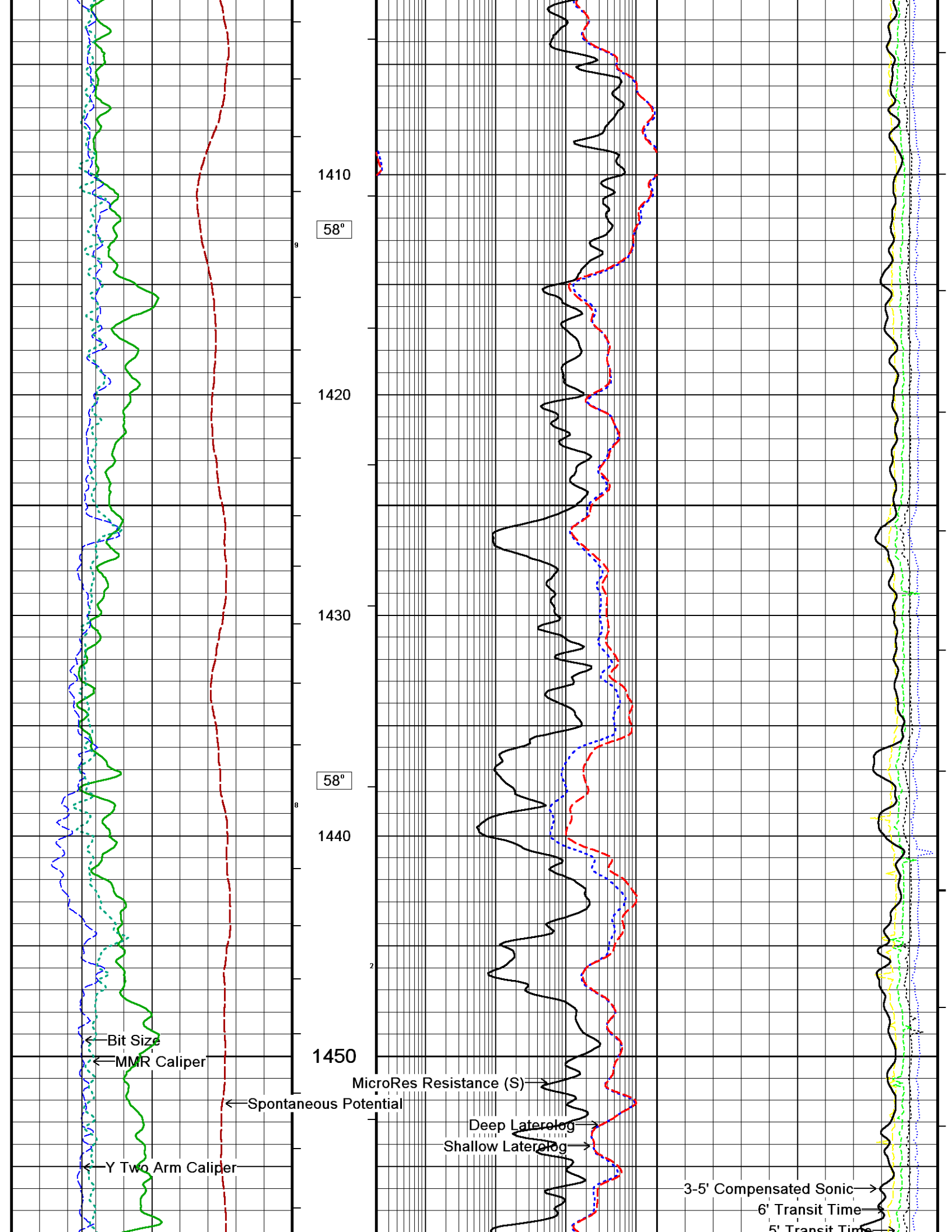


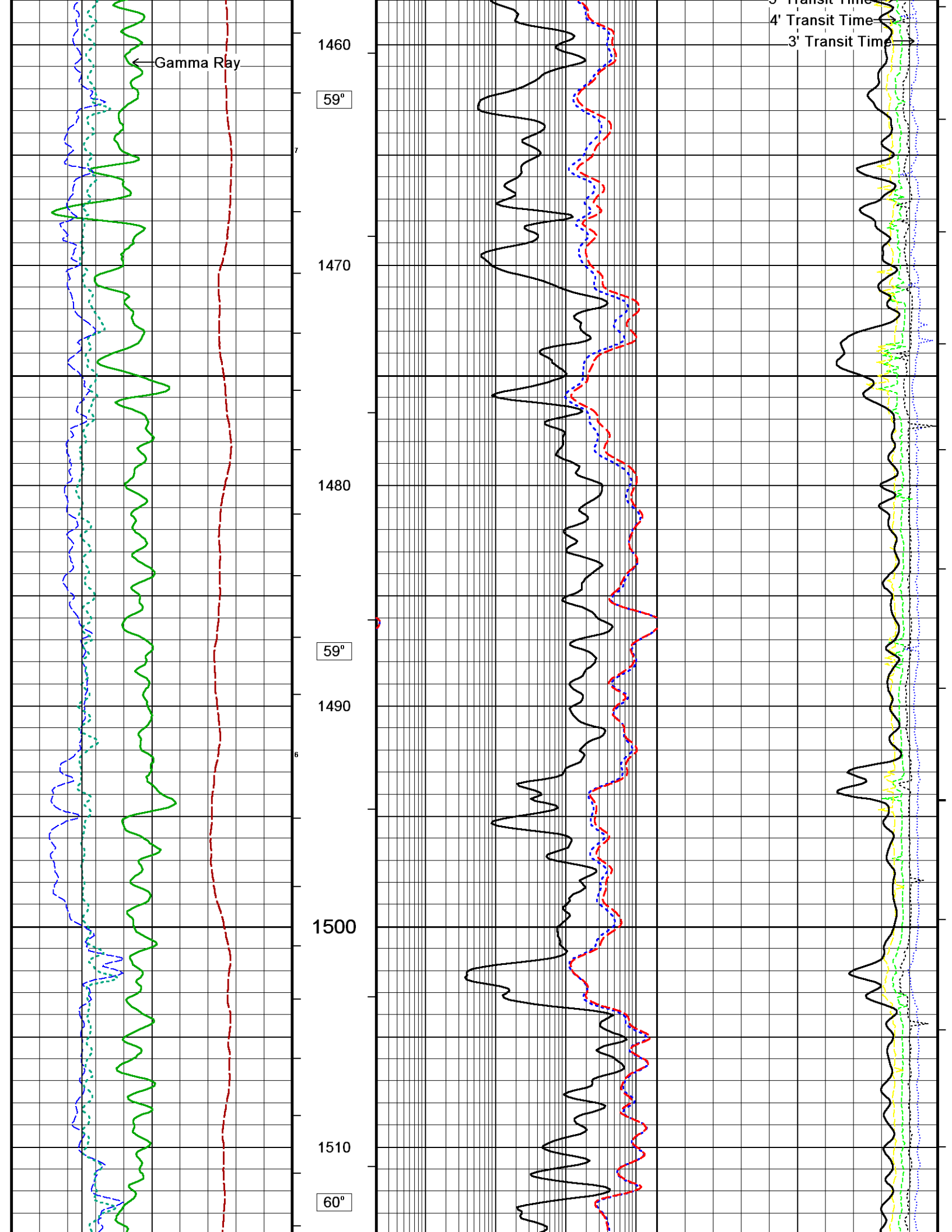


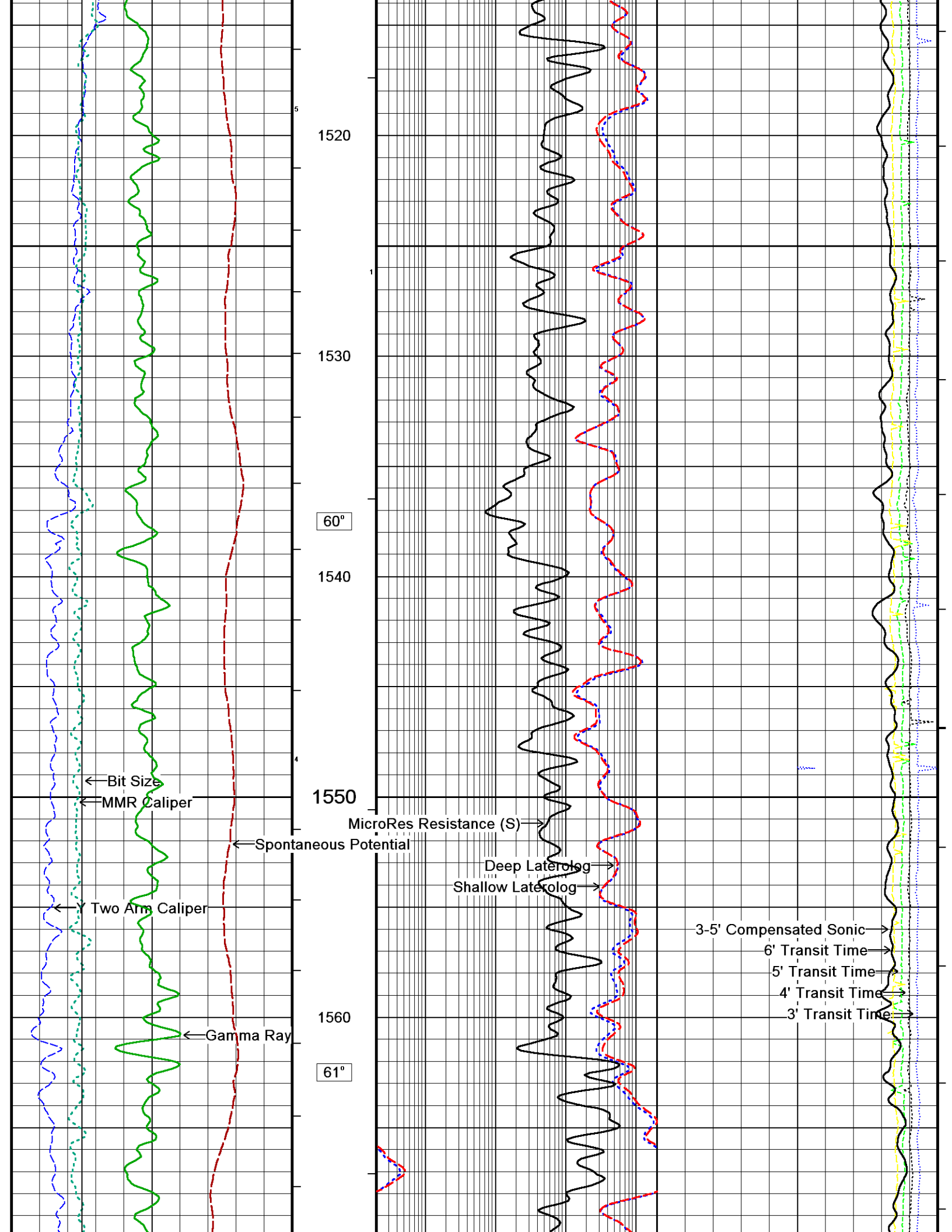


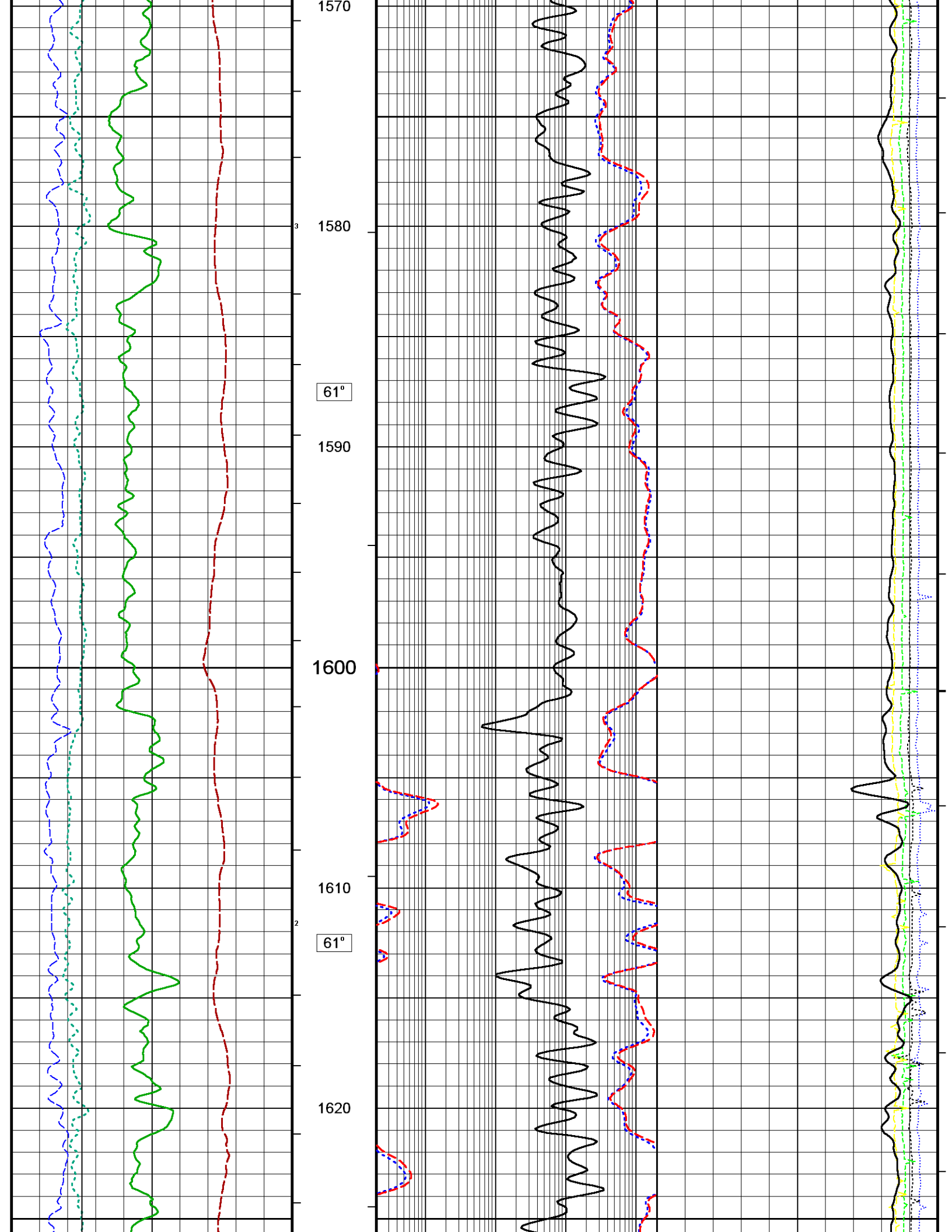


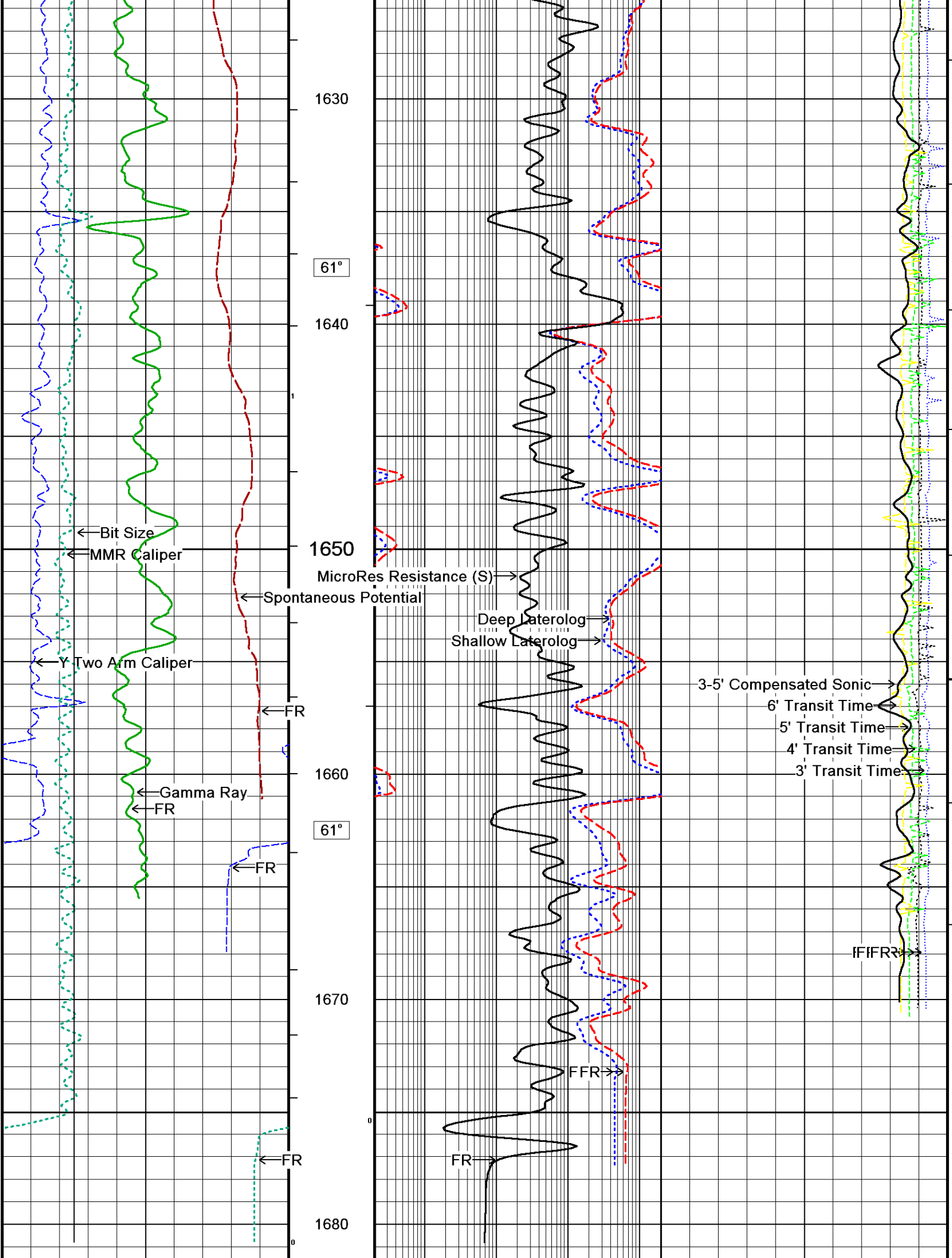




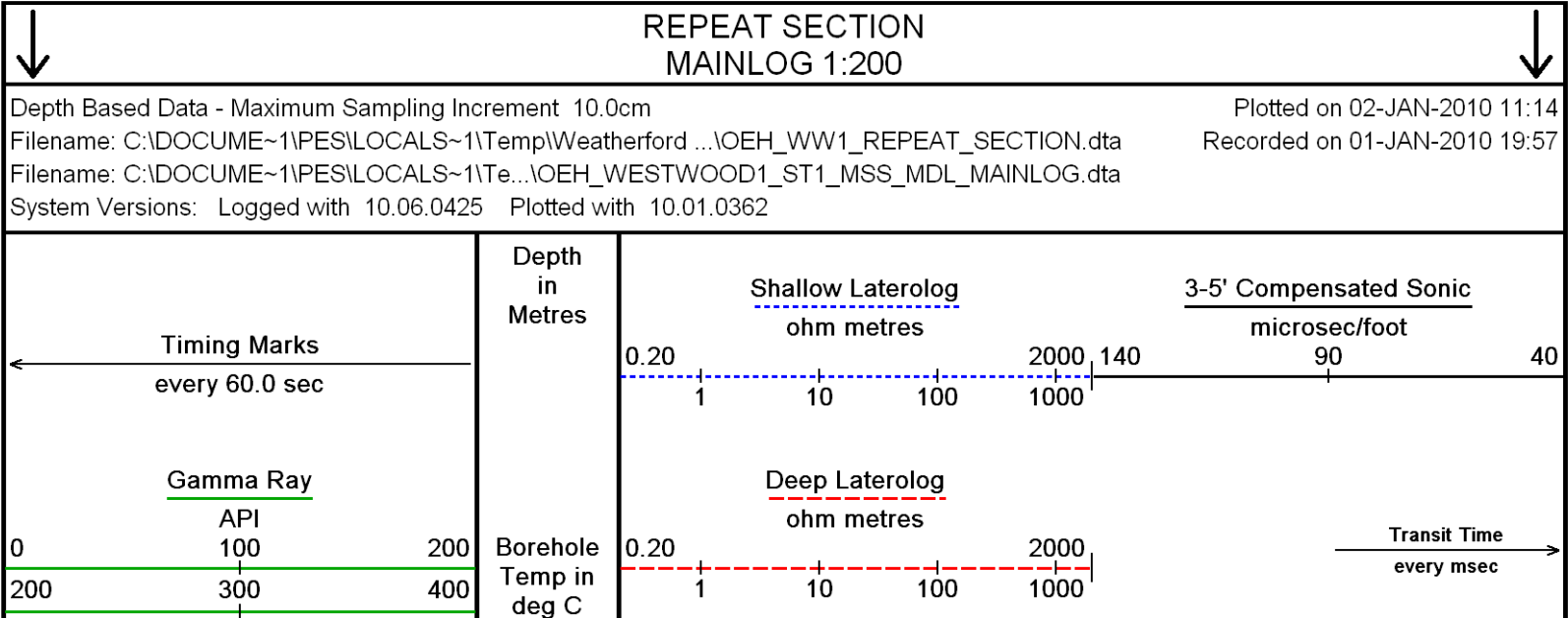
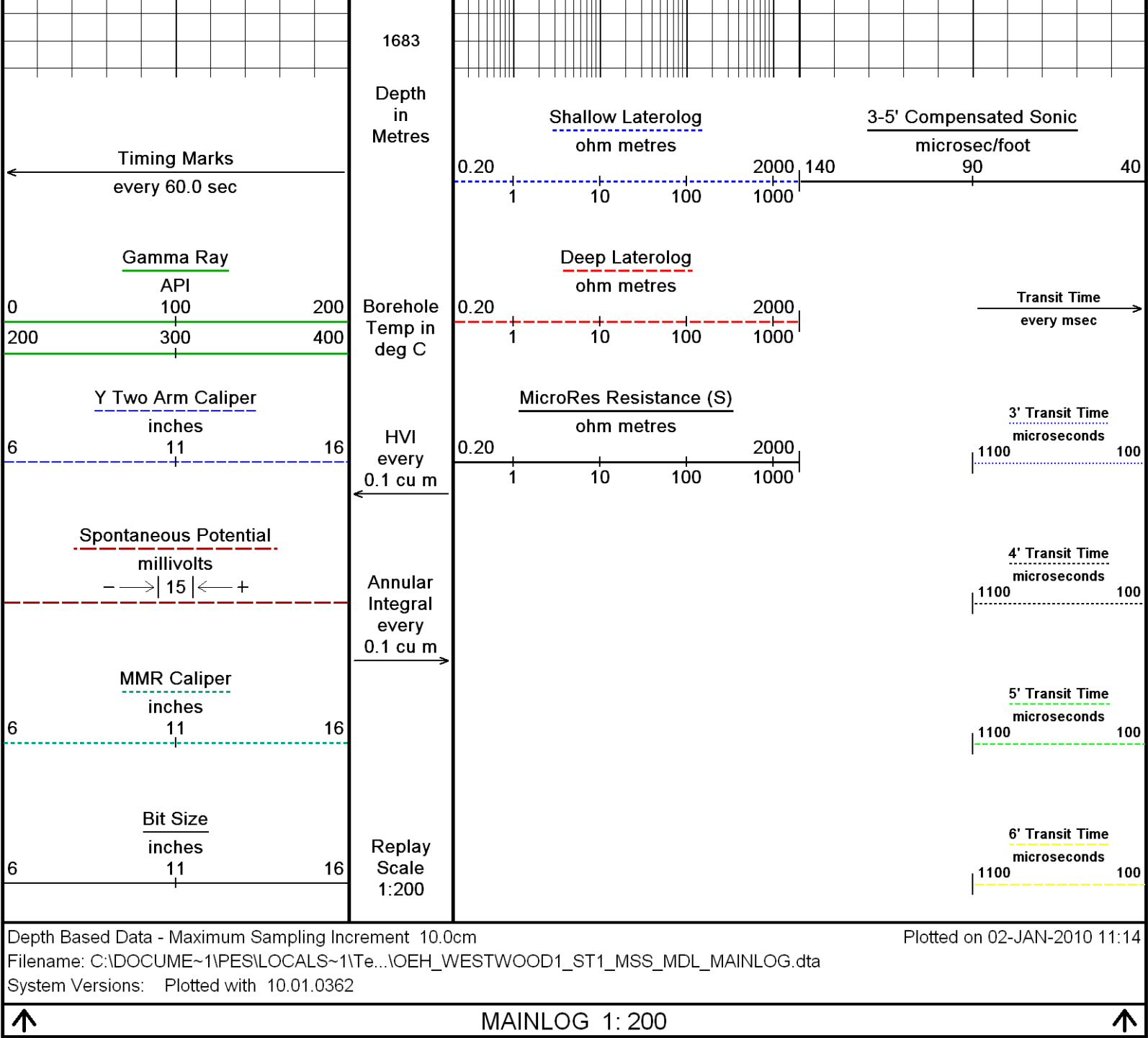


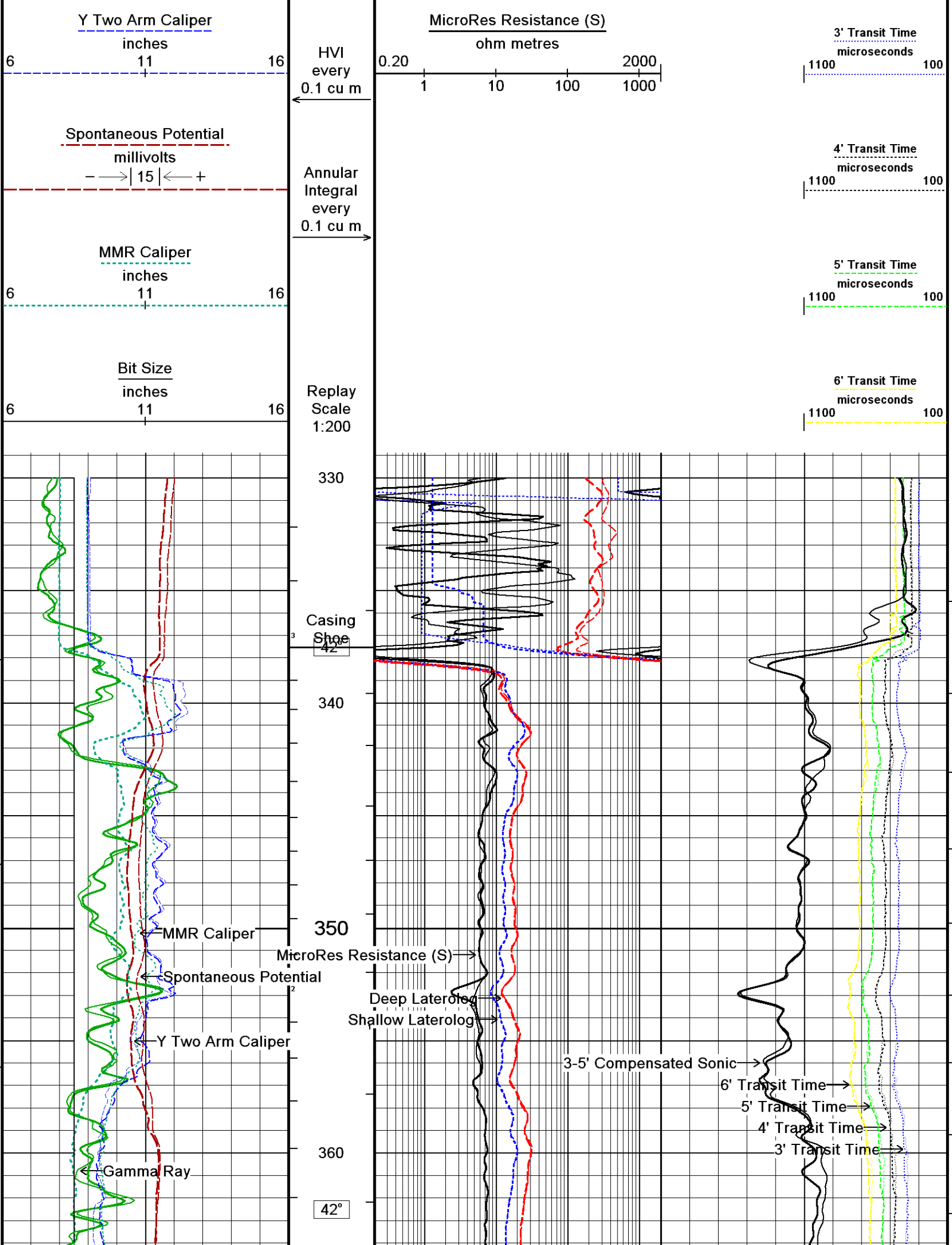


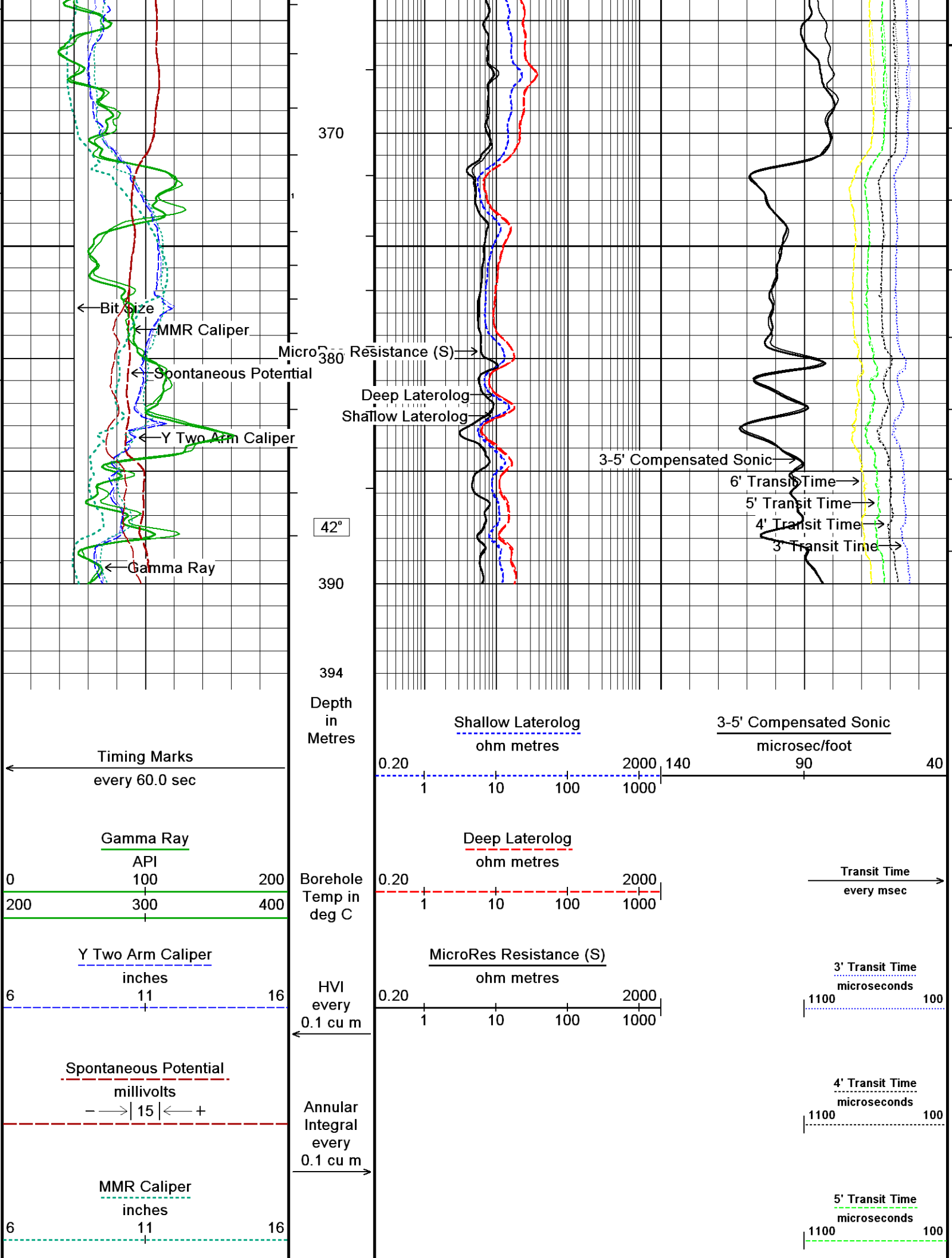












Depth Based Data - Maximum Sampling Increment 10.0cm  
 Plotted on 02-JAN-2010 11:14  
 Filename: C:\DOCUME~1\PES\LOCALS~1\Temp\Weatherford ... \OEH\_WW1\_REPEAT\_SECTION.dta  
 Recorded on 01-JAN-2010 19:57  
 Filename: C:\DOCUME~1\PES\LOCALS~1\Te... \OEH\_WESTWOOD1\_ST1\_MSS\_MDL\_MAINLOG.dta  
 System Versions: Logged with 10.06.0425 Plotted with 10.01.0362

↑ REPEAT SECTION MAINLOG 1:200 ↑

General Constants All 000 Last Edited on 1-JAN-2010,07:59

DOWNHOLE EQUIPMENT

C:\DOCUME~1\PES\LOCALS~1\Temp\Weatherford PreView\0\OEH\_WW1\_MAINLOG.dta

- 19.94 m SPDL - Spontaneous Potential

Compact Gamma  
MCG 43    Length: 2.65 m    Weight: 63.9 lb

Compact Two Arm Caliper  
MTC 69    Length: 2.17 m    Weight: 61.7 lb

Compact Sonic  
MSS 47    Length: 3.82 m    Weight: 72.8 lb

Compact Upper Guard Sub.  
MUG 5    Length: 2.74 m    Weight: 68.3 lb

Compact Laterolog Electrode Sub.  
MLE 107    Length: 3.76 m    Weight: 92.6 lb

Compact Micro-Resistivity  
MMR 4    Length: 2.62 m    Weight: 81.6 lb

15.61 m    GRGC - Gamma Ray  
14.72 m    CGXT - MCG External Temperature

12.99 m    AVOL - Annular Volume  
12.99 m    HVOL - Hole Volume  
12.99 m    CLYC - Y Two Arm Caliper

10.15 m    TR12 - 6' Transit Time  
10.00 m    TR22 - 5' Transit Time  
10.46 m    TR11 - 4' Transit Time  
10.31 m    TR21 - 3' Transit Time

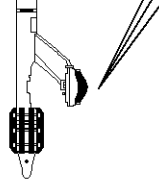
9.24 m    DT35 - 3-5' Compensated Sonic

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

0.00 m    MRRS - MicroRes Resistance (S)  
0.00 m    MATC - MMR Caliper  
Tool Zero    (0.85m from bottom)

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

Total      Length: 26.74 m      Weight: 634.9 lb



All measurements relative to tool zero.

COMPANY	OEH
WELL	WESTWOOD 1 - ST1
FIELD	N/A
PROVINCE/COUNTY	TASMANIA
COUNTRY/STATE	AUSTRALIA

Elevation Kelly Bushing		metres	First Reading	1677.15	metres
Elevation Drill Floor	149.00	metres	Depth Driller	1679.00	metres
Elevation Ground Level	145.00	metres	Depth Logger	1678.00	metres



DUAL LATEROLOG - MLL  
COMPENSATED SONIC - TAC  
1:200

**Weatherford®**