



DUAL LATEROLOG - MLL COMPENSATED SONIC - TAC

1:200

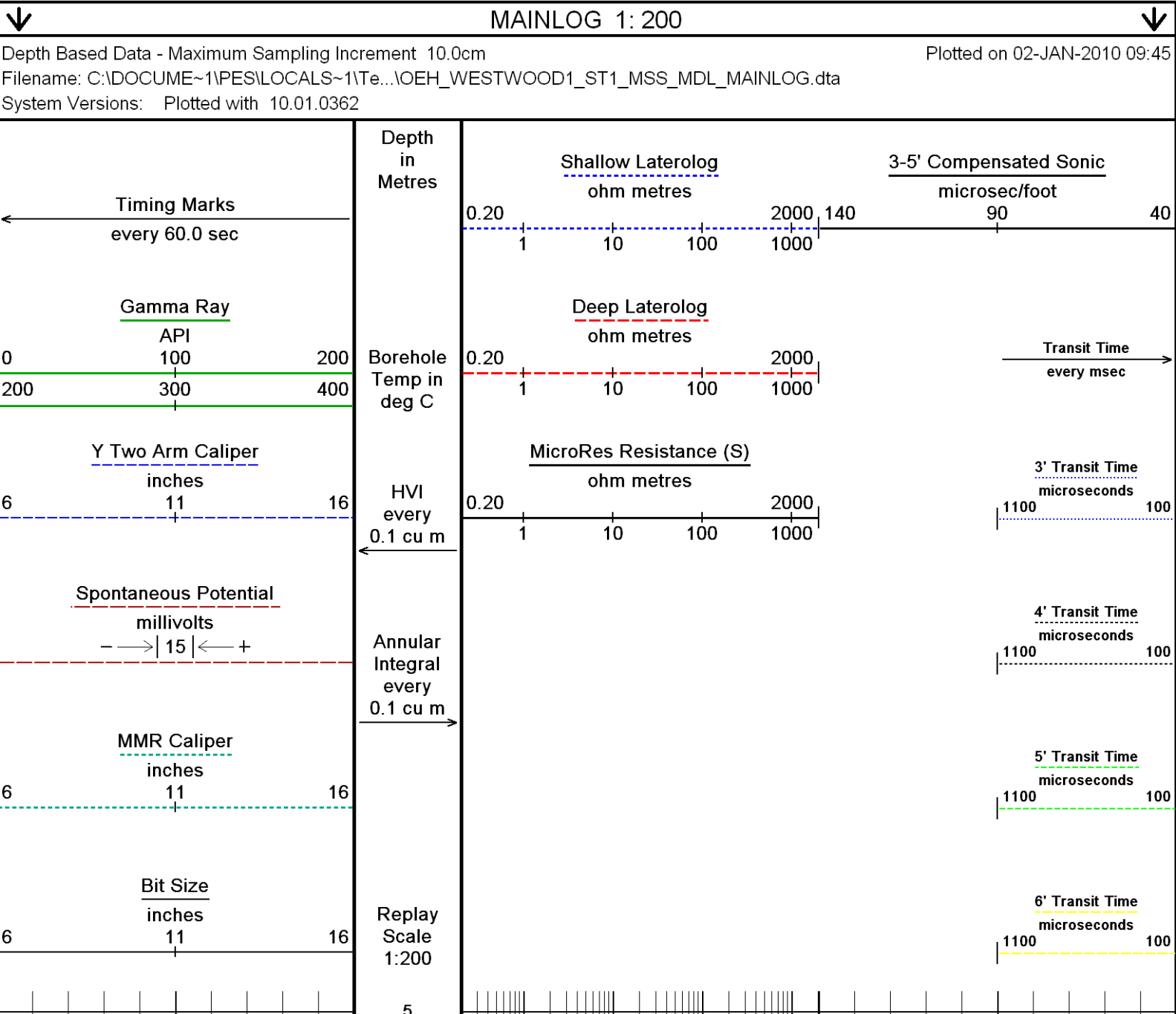
COMPANY	OEH		
WELL	WESTWOOD 1 - ST1		
FIELD	N/A		
PROVINCE/COUNTY	TASMANIA		
COUNTRY/STATE	AUSTRALIA		
LOCATION	EASTING 502839.2m (MGA 94) NORTHING 6804958.7m (MGA 94)		
Latitude	41° 31' 9.3" S	Other Services	
Longitude	147° 21' 2.5"E	NONE	
Permanent Datum M.S.L., Elevation 0.0 metres			
Log Measured From D.F., 149 M above Permanent Datum			
Drilling Measured From D.F.			
Date	1-JAN-2010	Elevations:	
Run Number	ONE	KB	metres
Depth Driller	1679.00	DF	149.00
Depth Logger	1678.00	GL	145.00
First Reading	1677.15		
Last Reading	5.00		
Casing Driller	338.00		
Casing Logger	337.50		
Bit Size	8.500		
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		

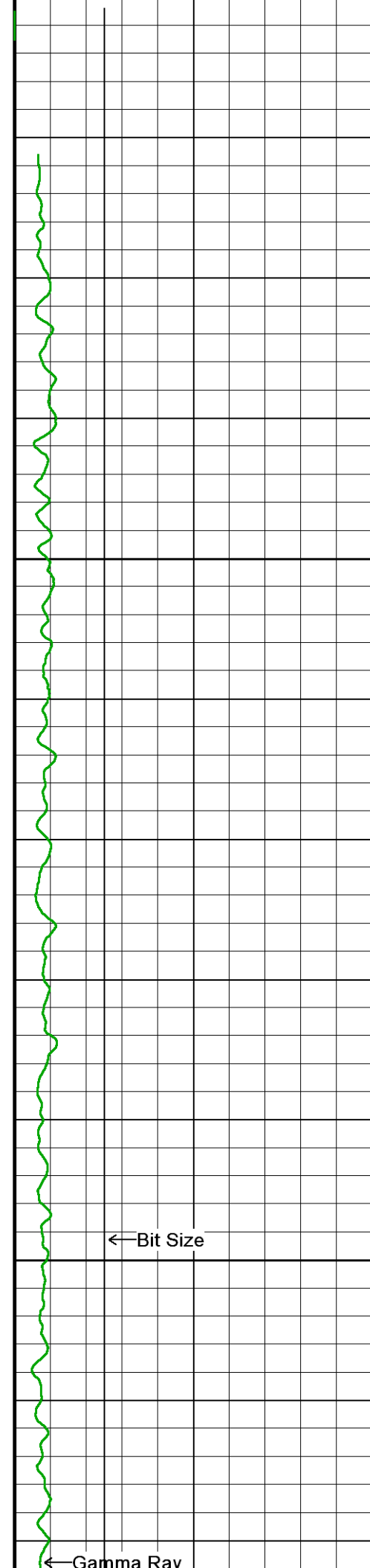
BOREHOLE RECORD			Last Edited: 1-JAN-2010 22:26
Bit Size inches	Depth From metres	Depth To metres	
8.500	6.20	1610.00	
CASING RECORD			
Type	Size inches	Depth From metres	Shoe Depth metres
SURFACE	9.625	0.00	338.00
Weight pounds/ft			
36.00			

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

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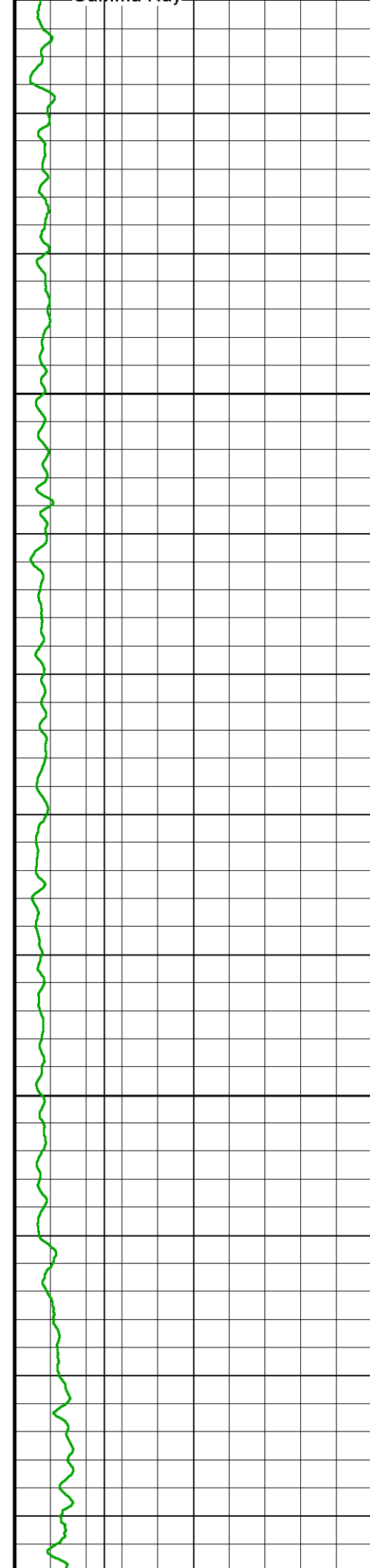
40

50

60

← Bit Size

← Gamma Ray



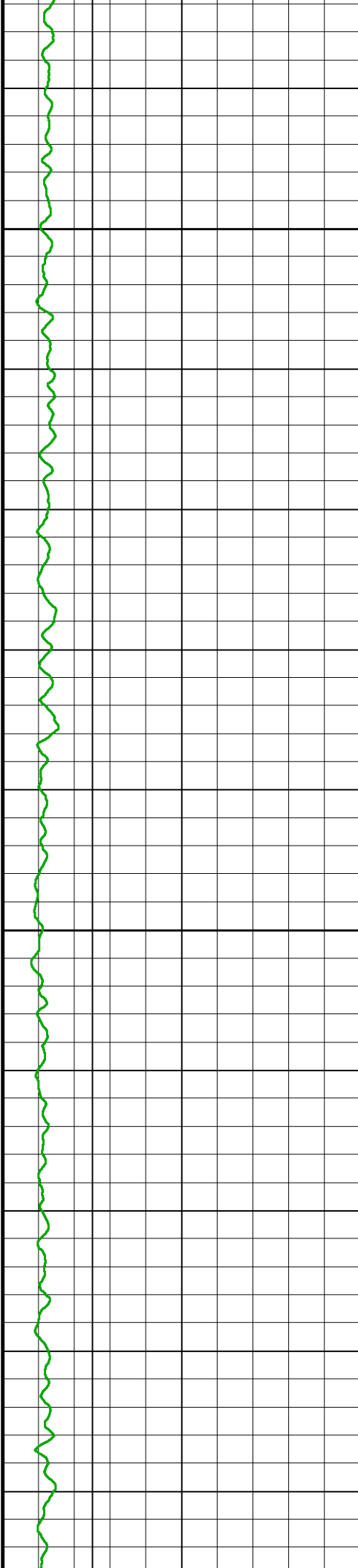
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100

110



120

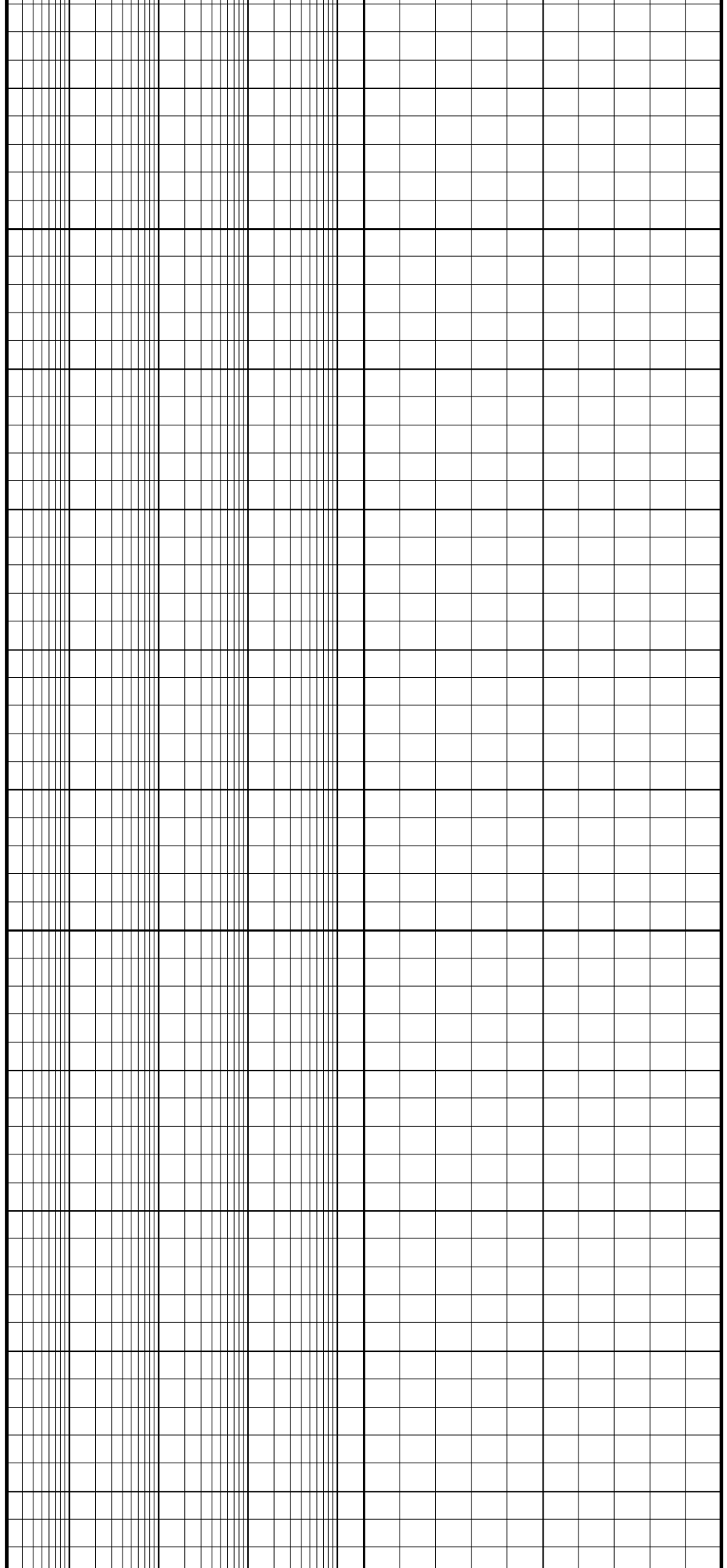
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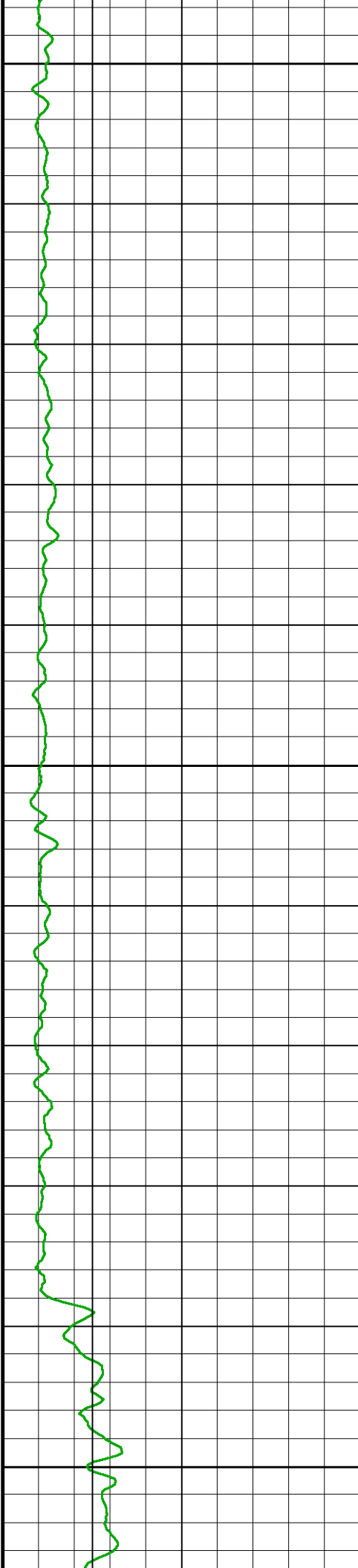
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150

160

170





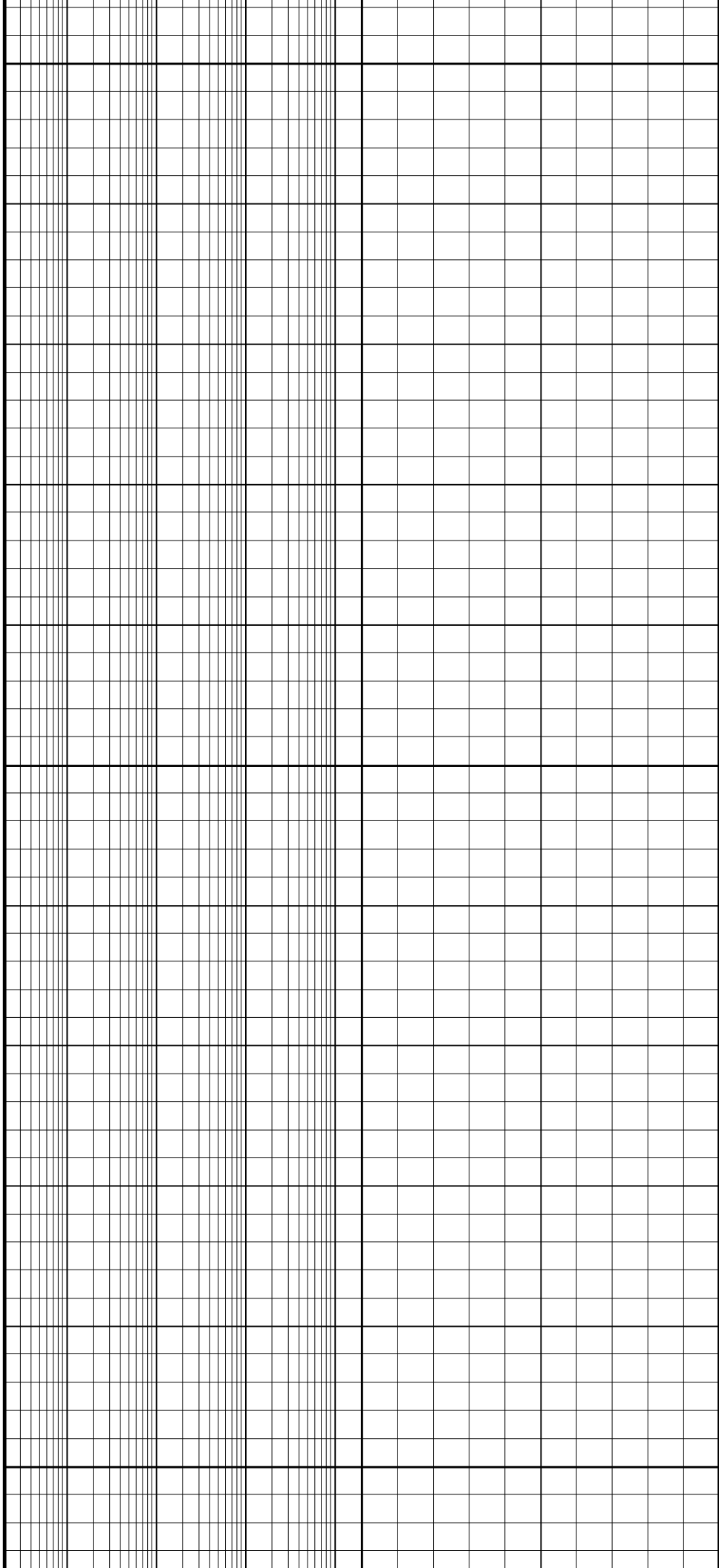
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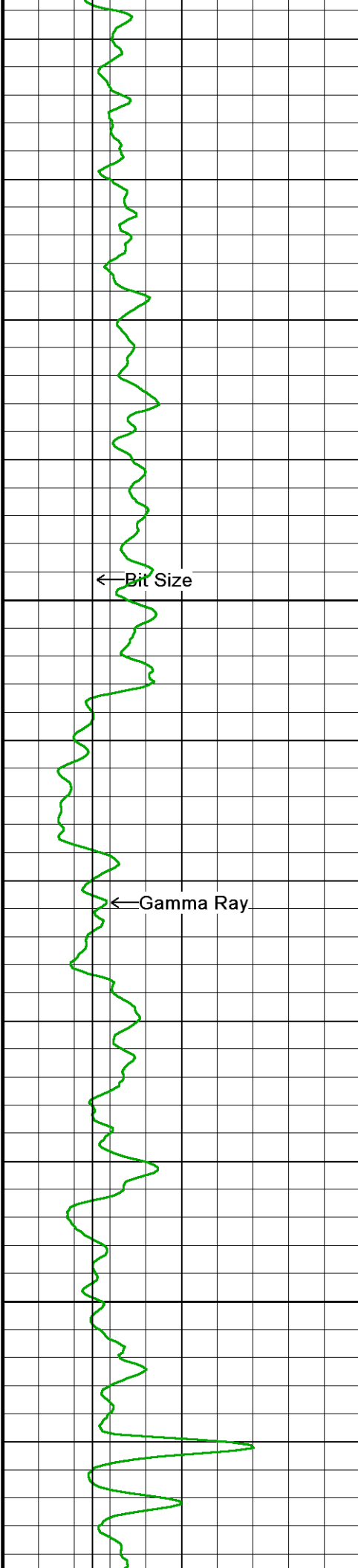
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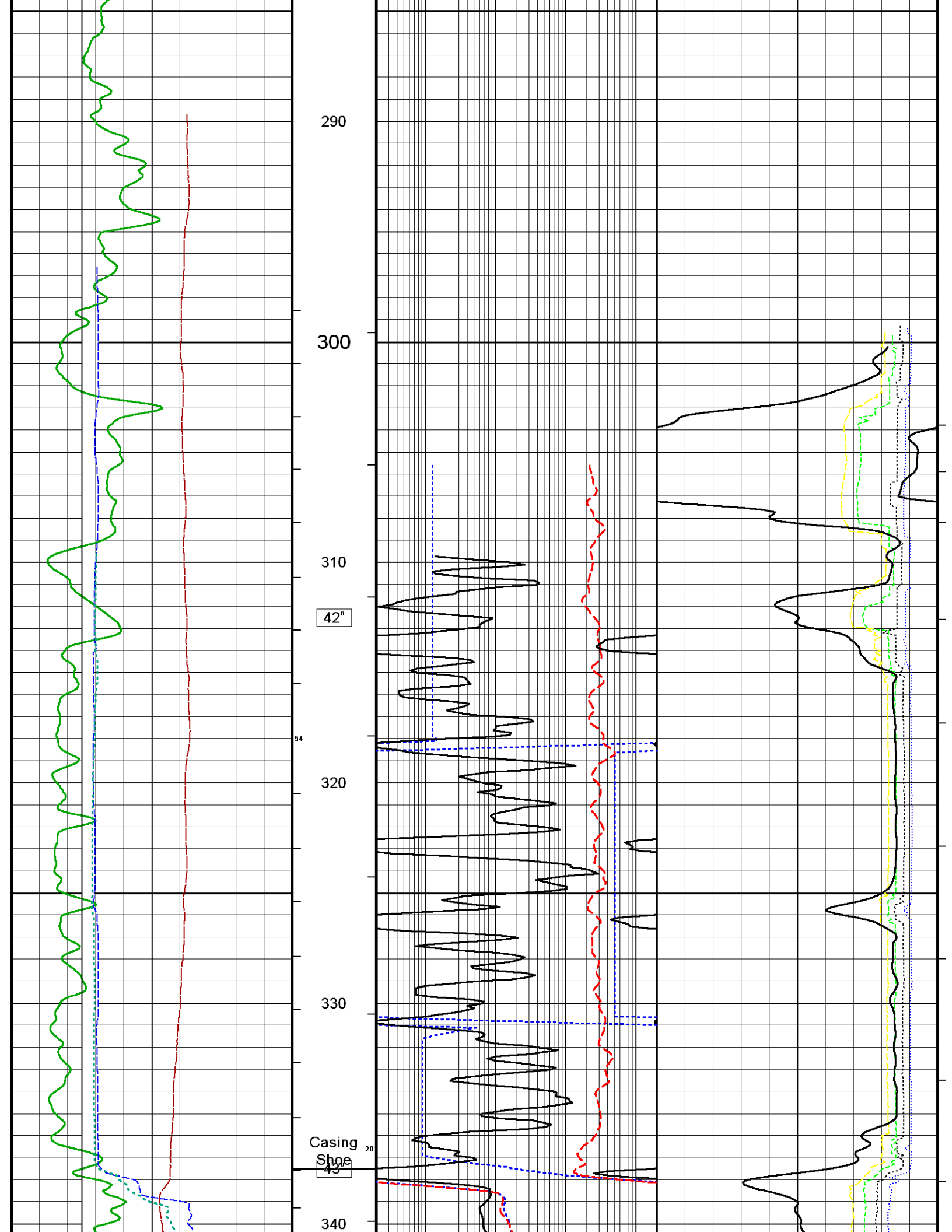
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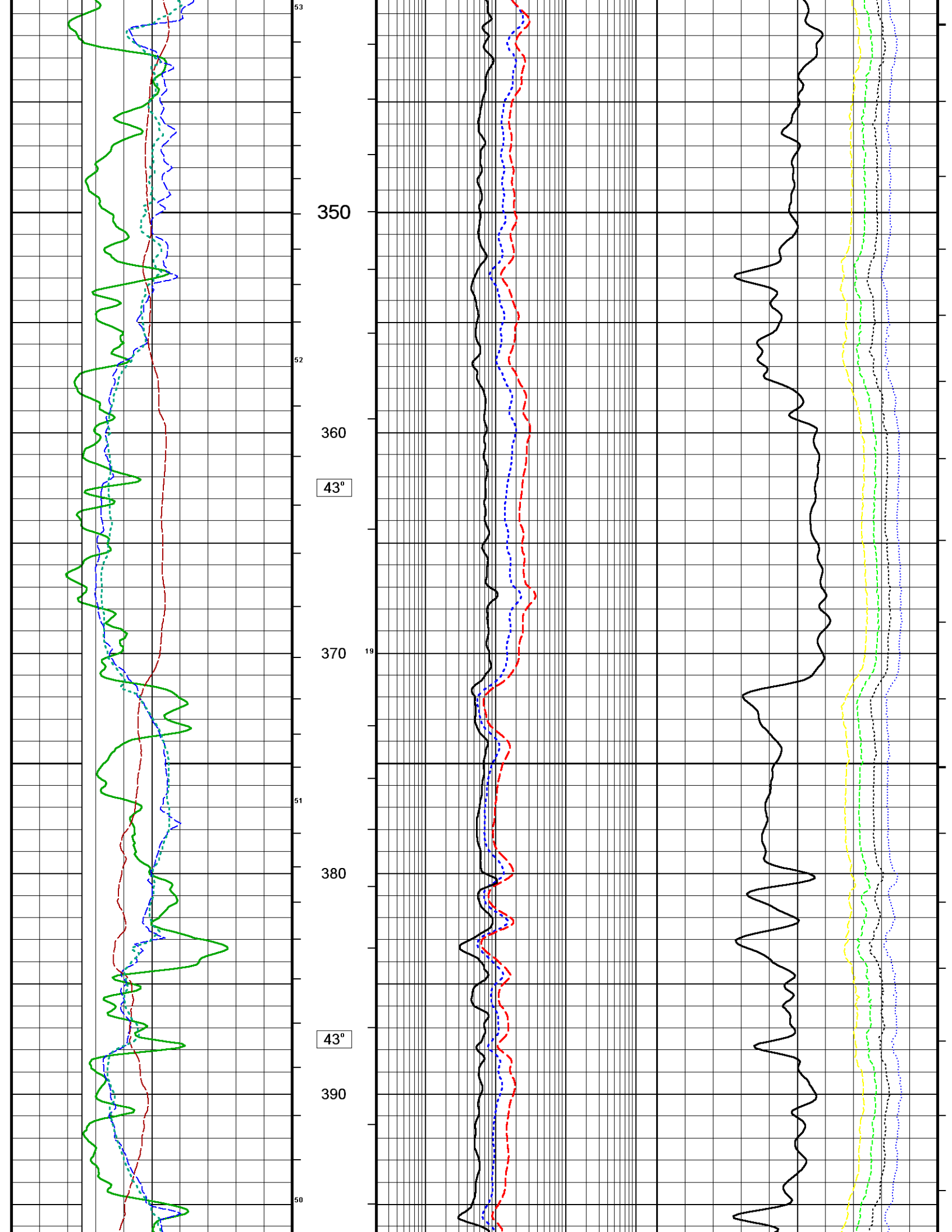
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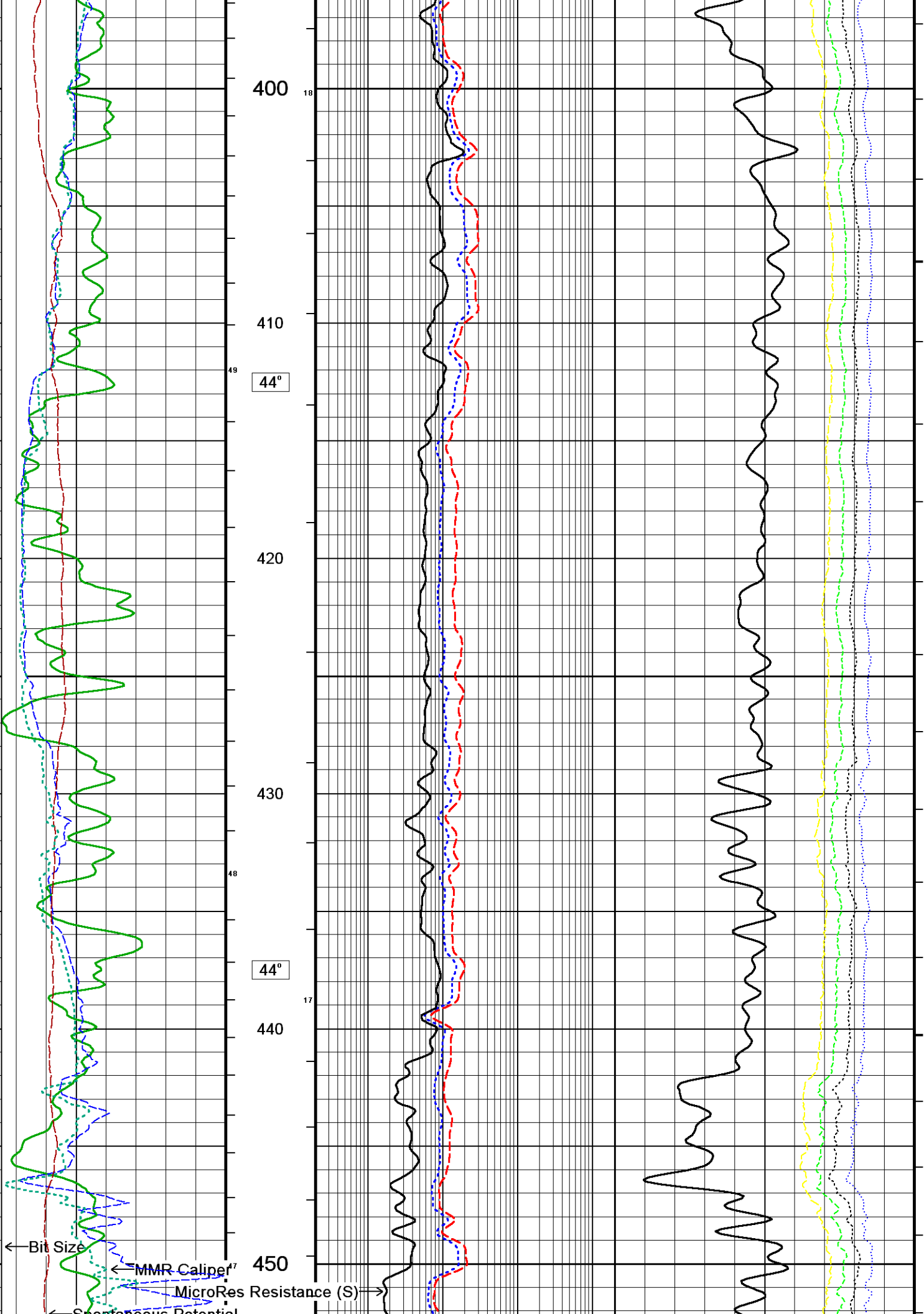
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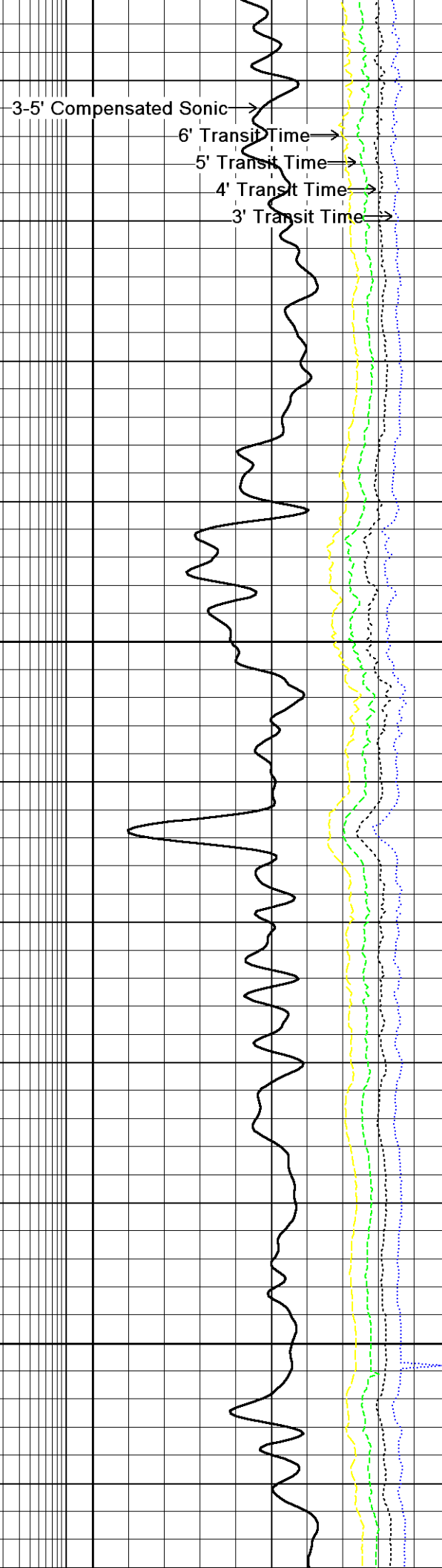
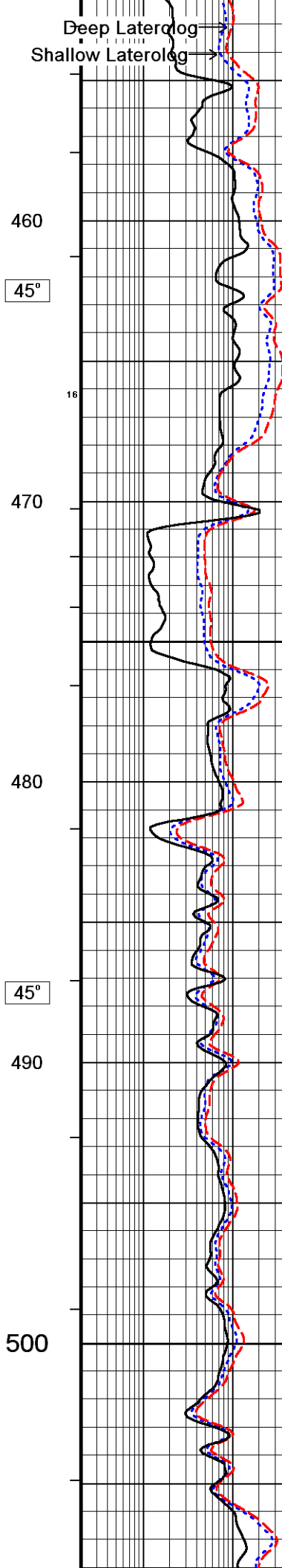
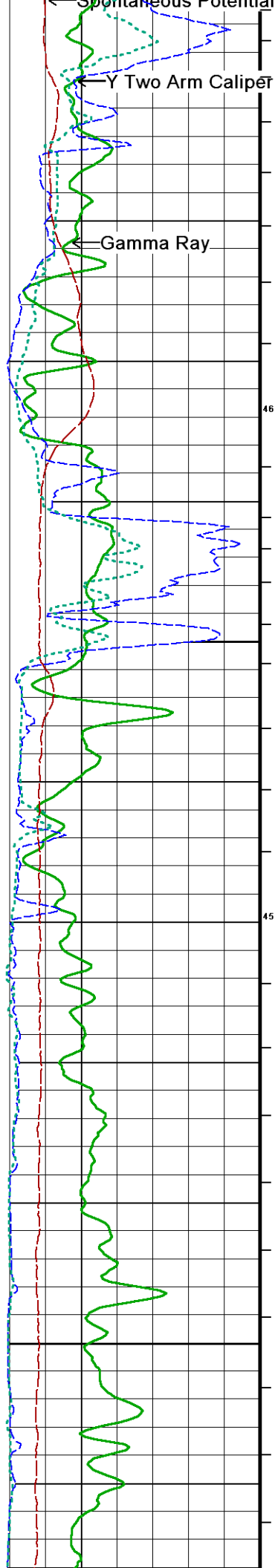
← Bit Size

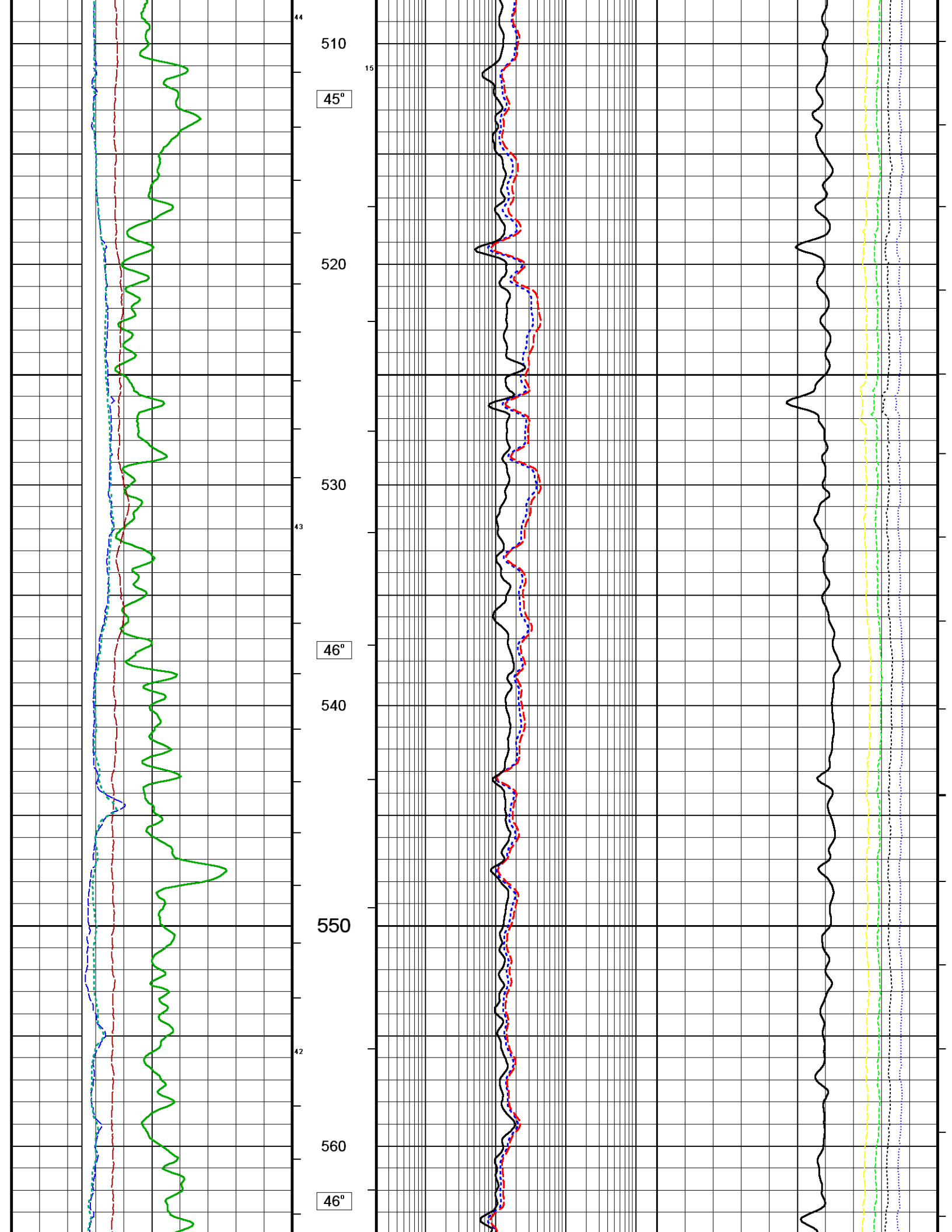
← Gamma Ray

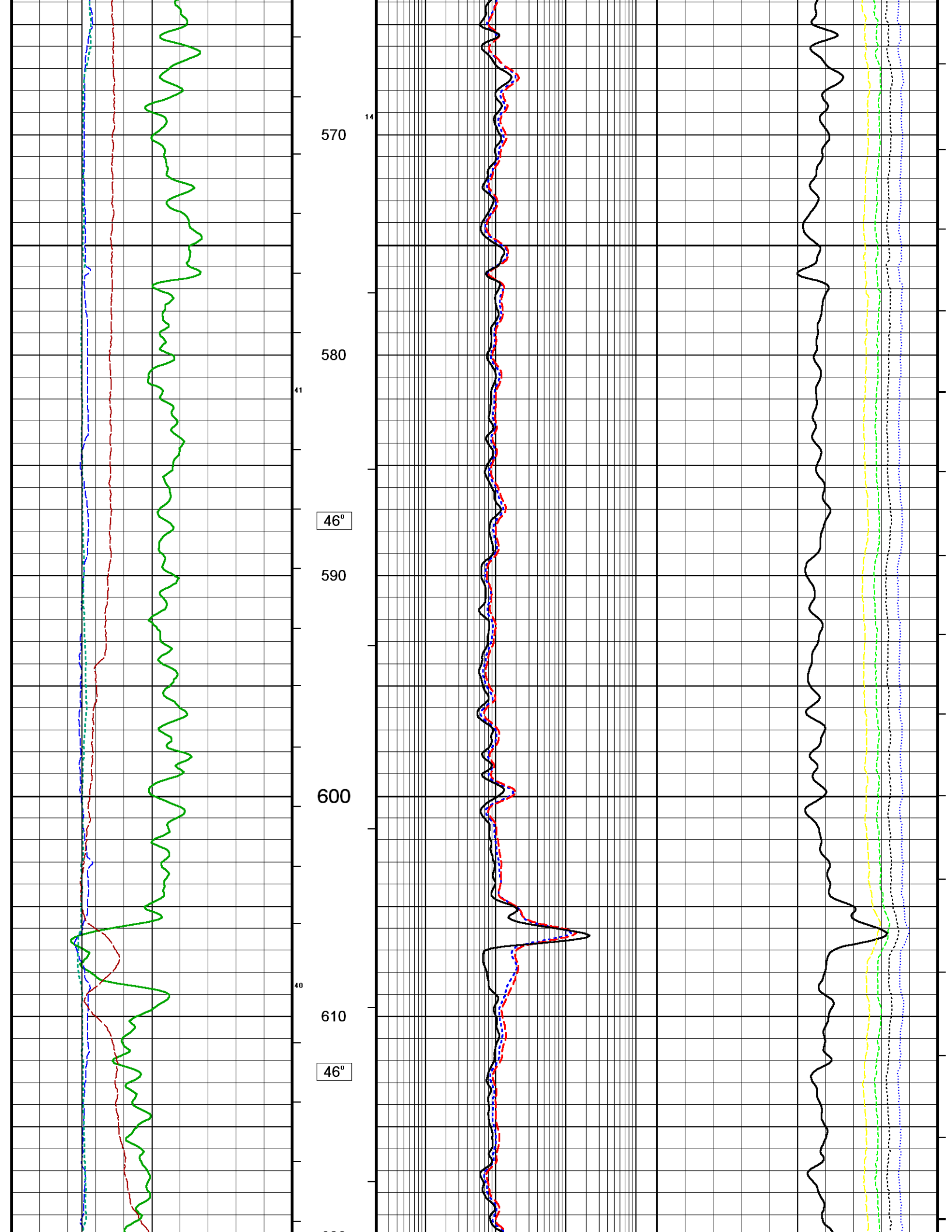


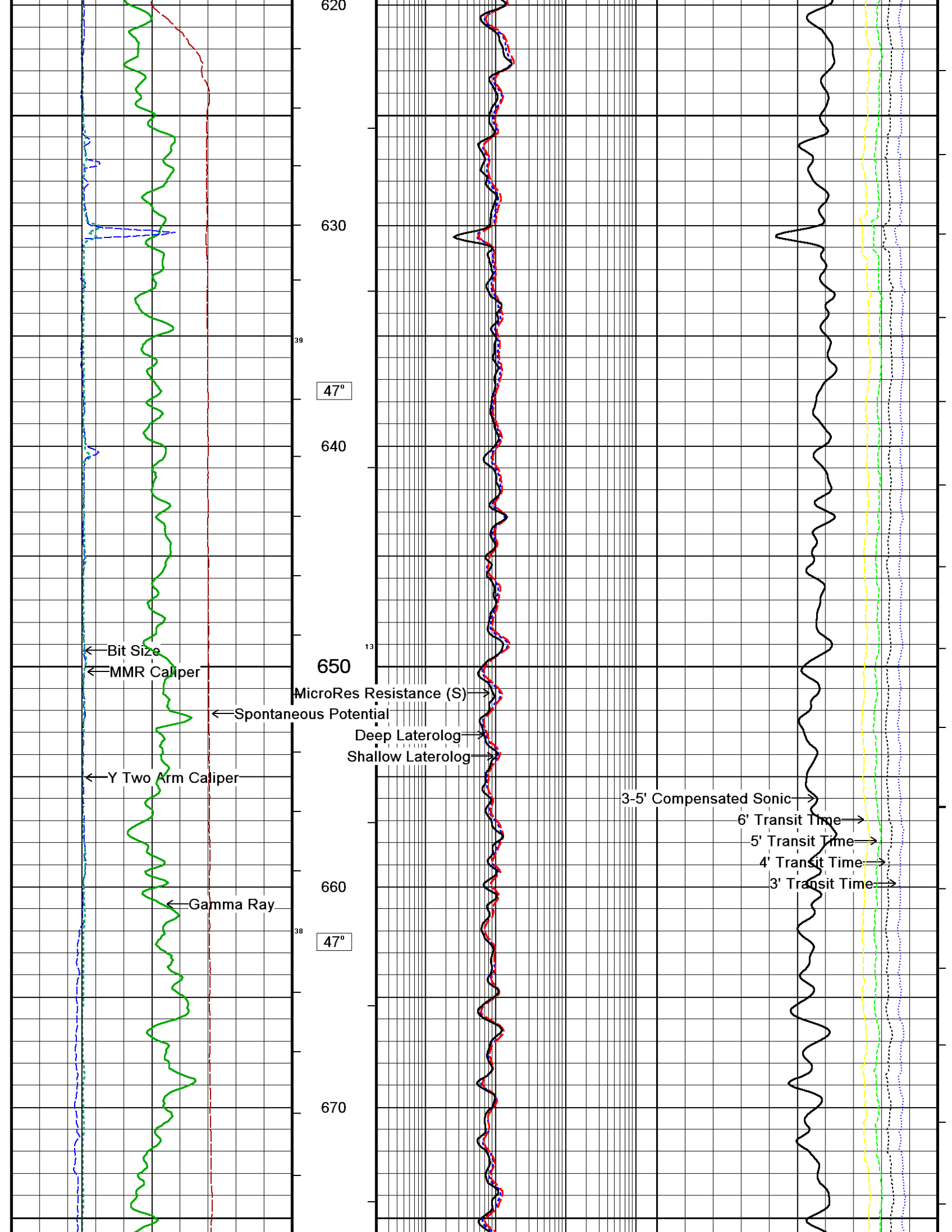


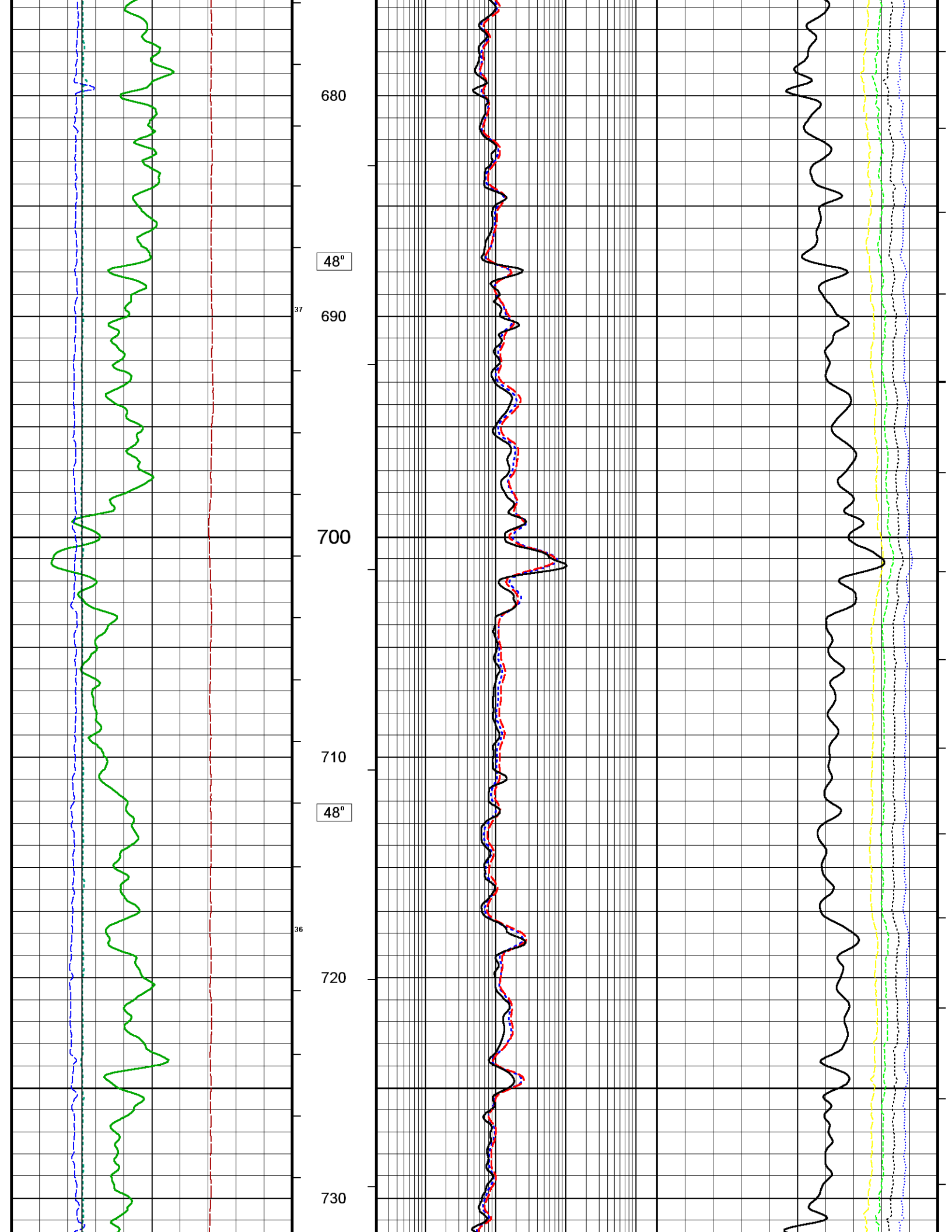


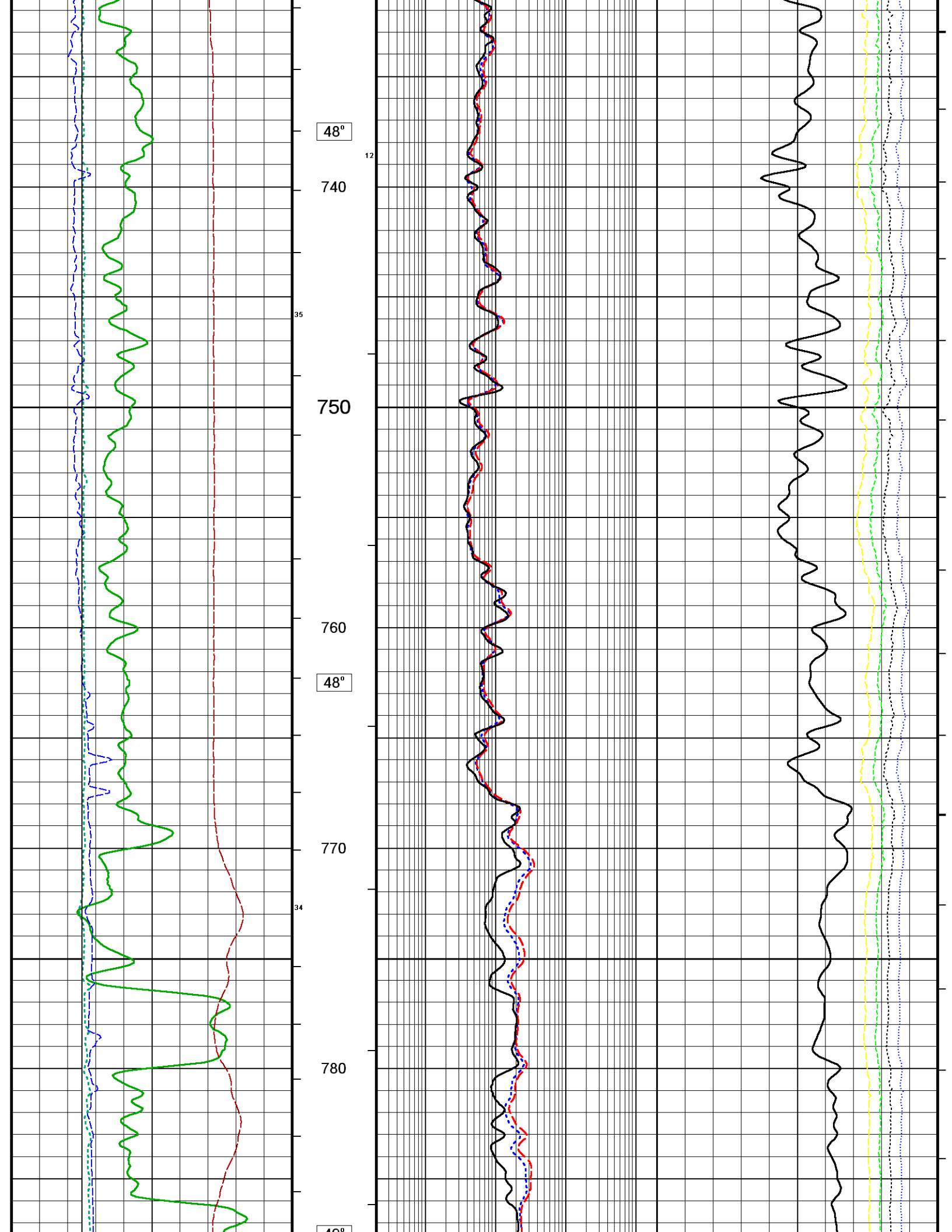


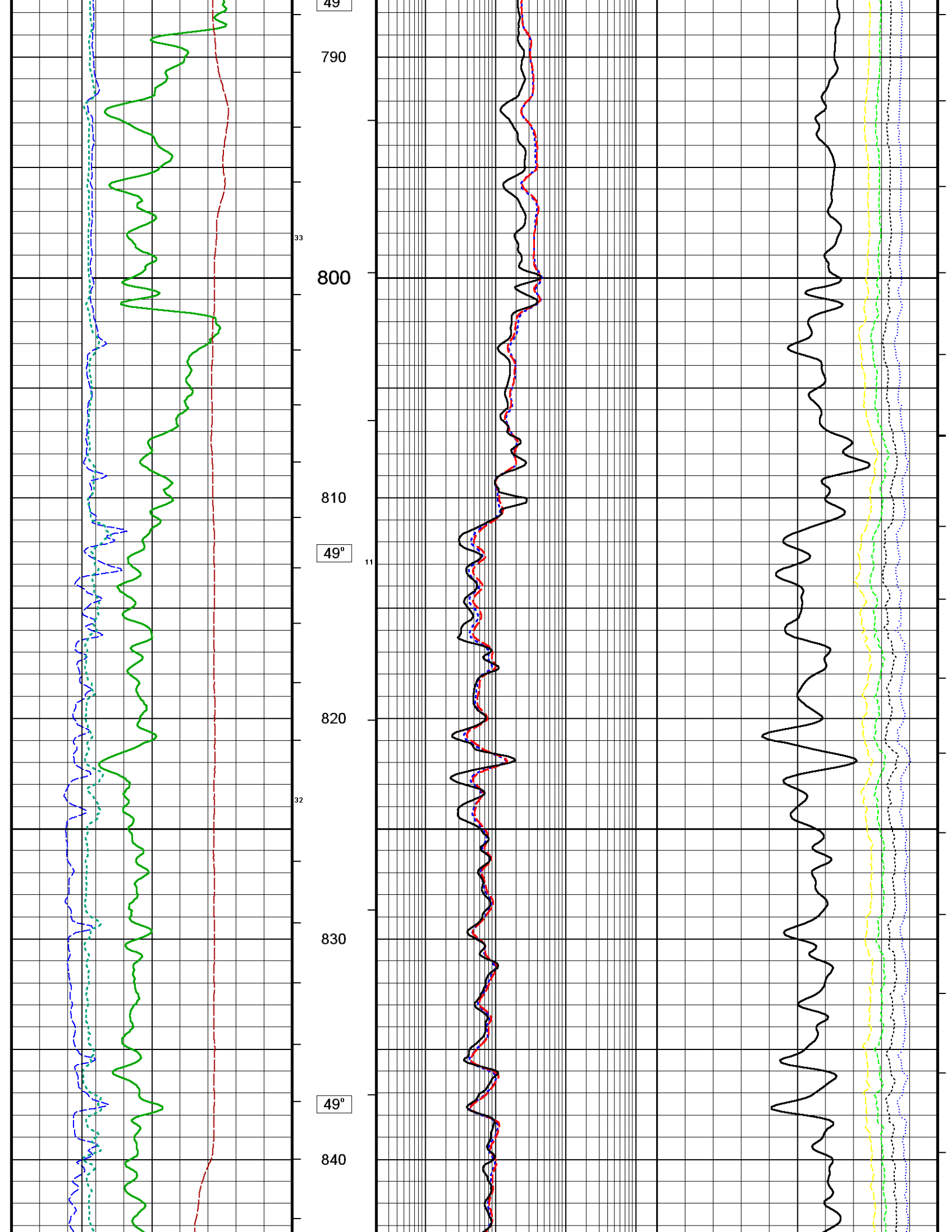


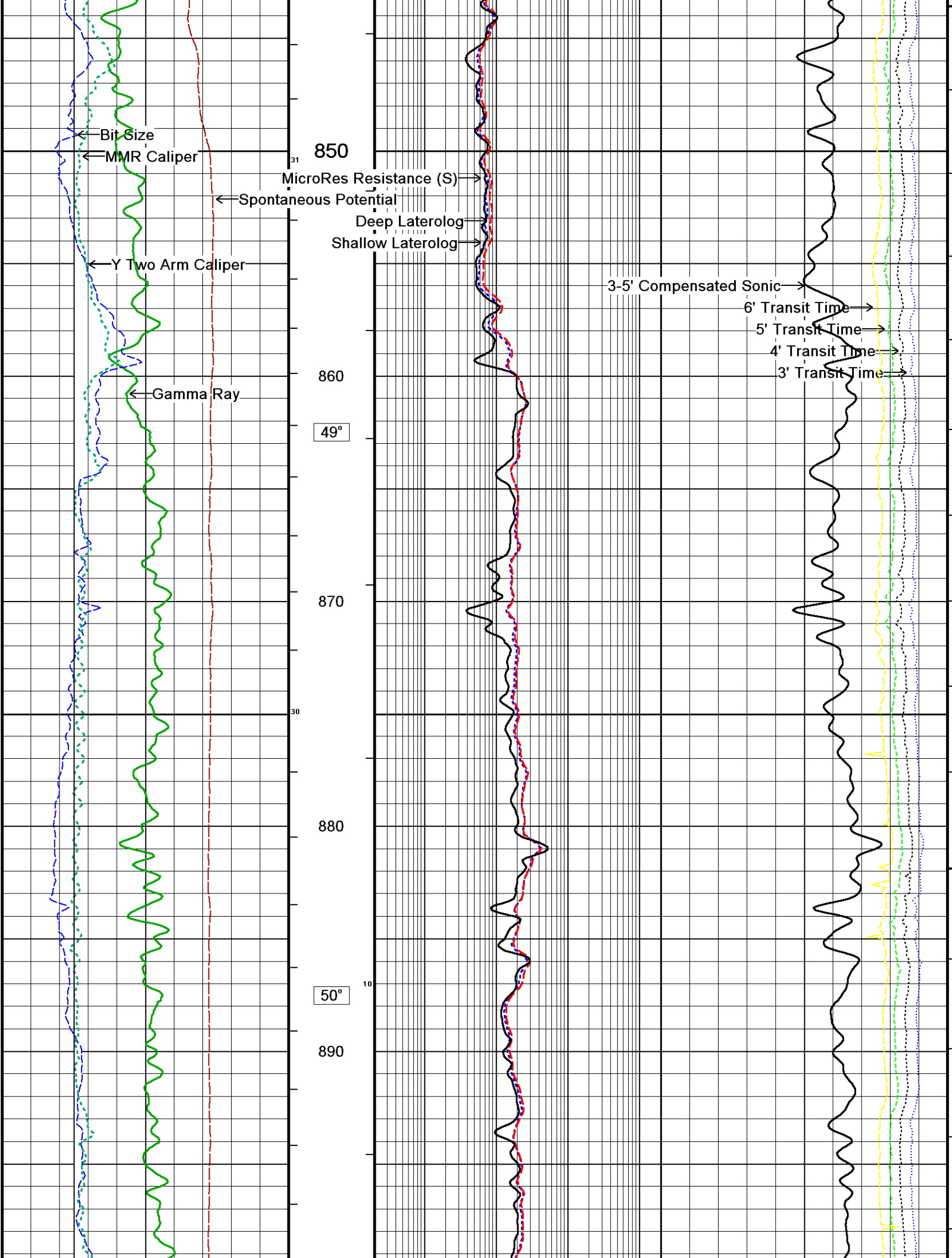


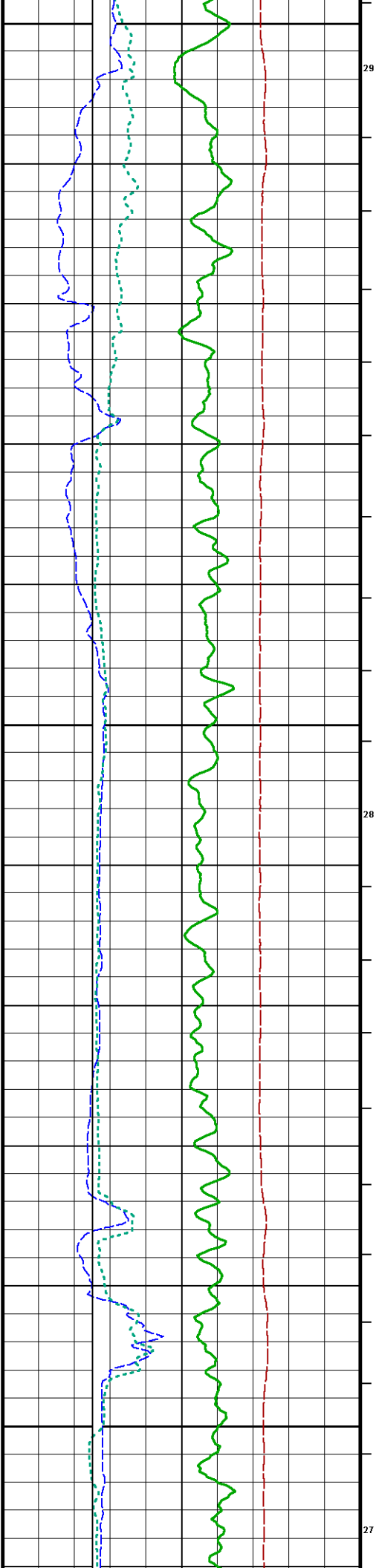












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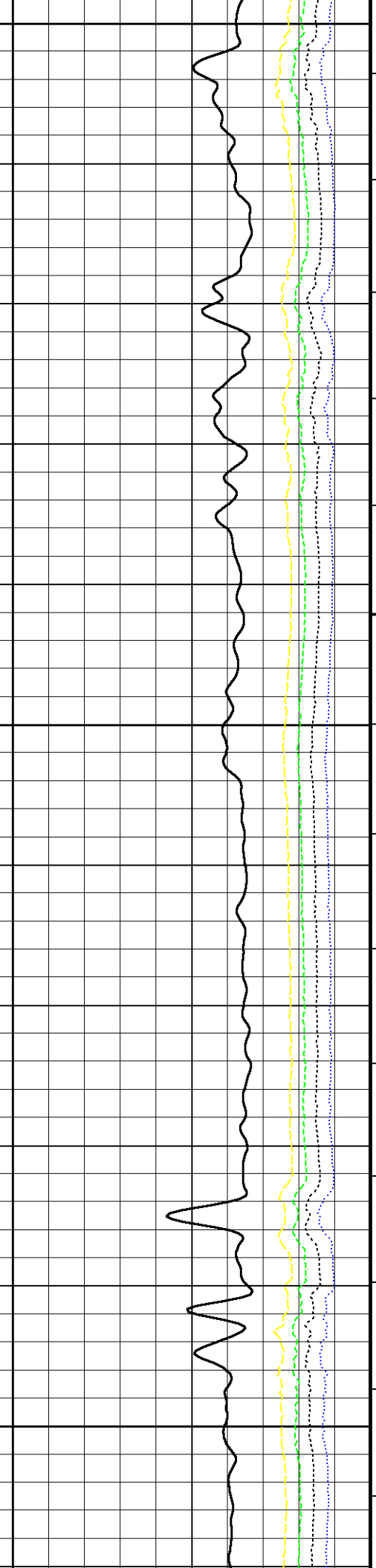
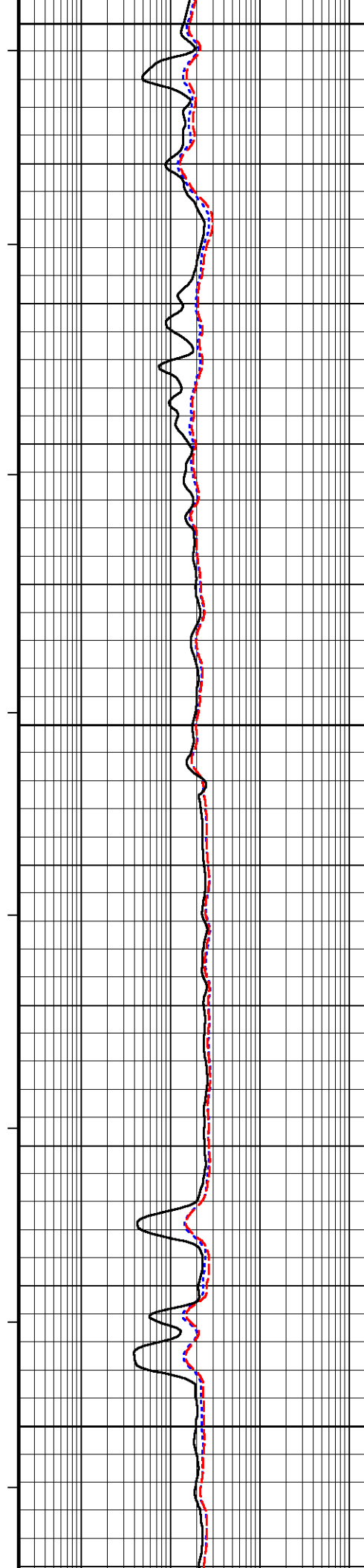
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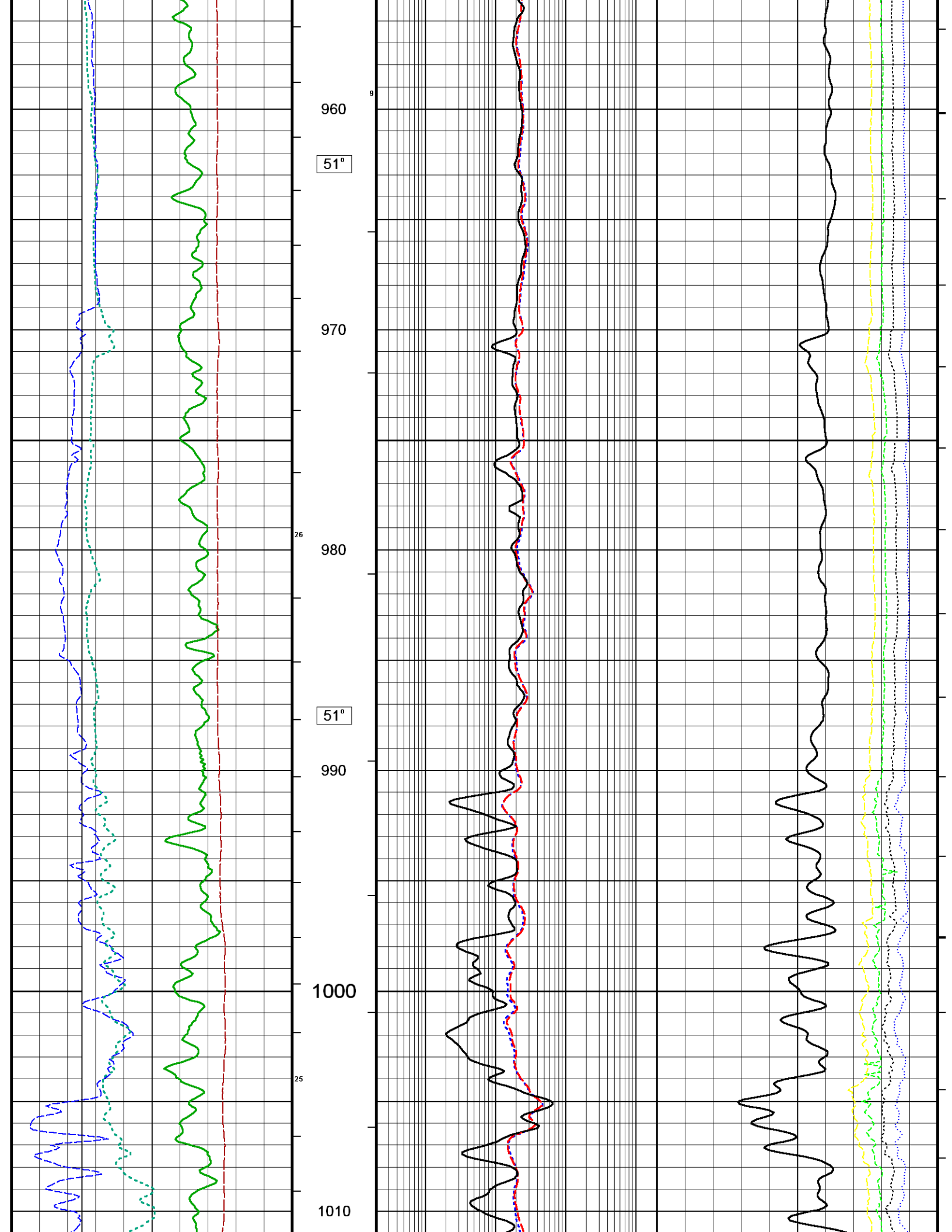
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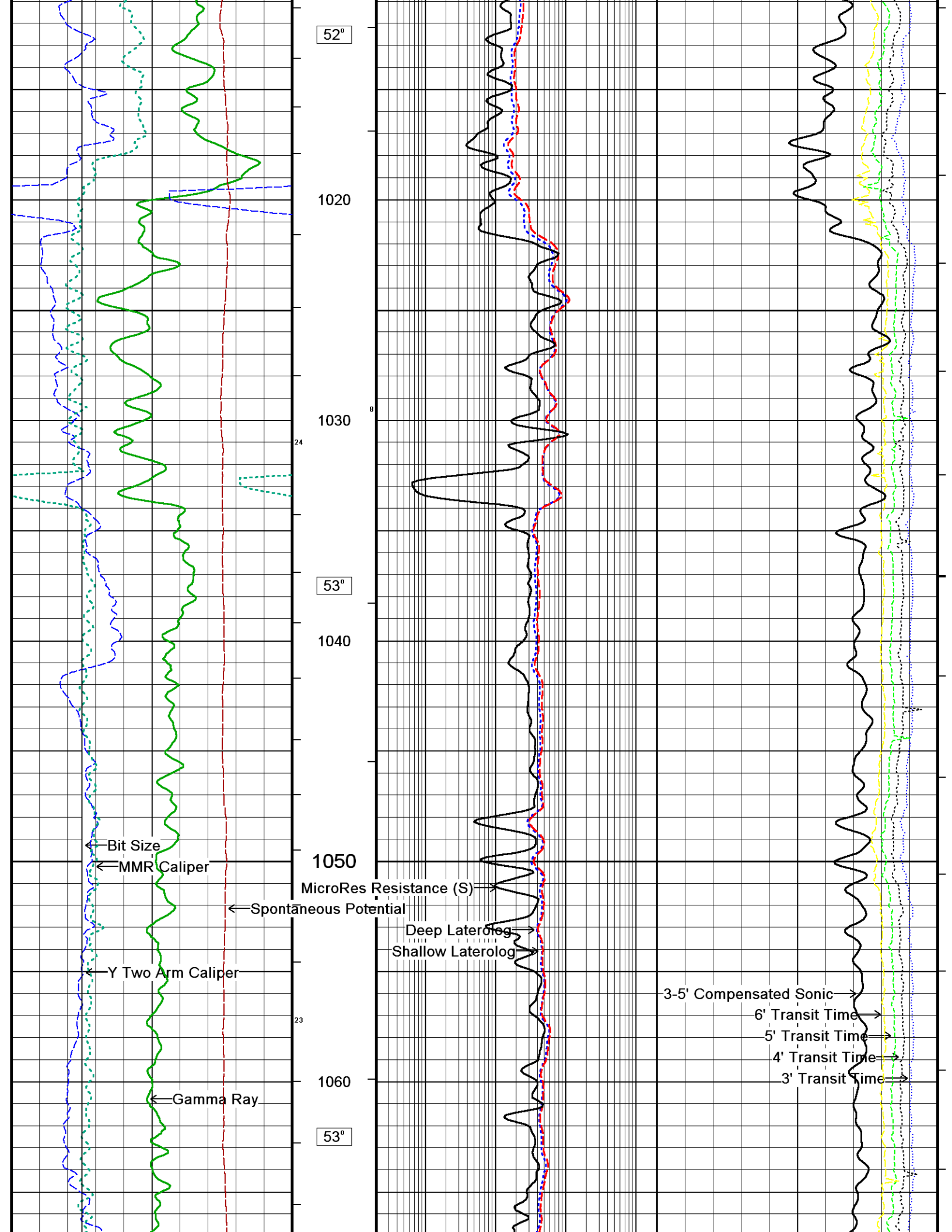
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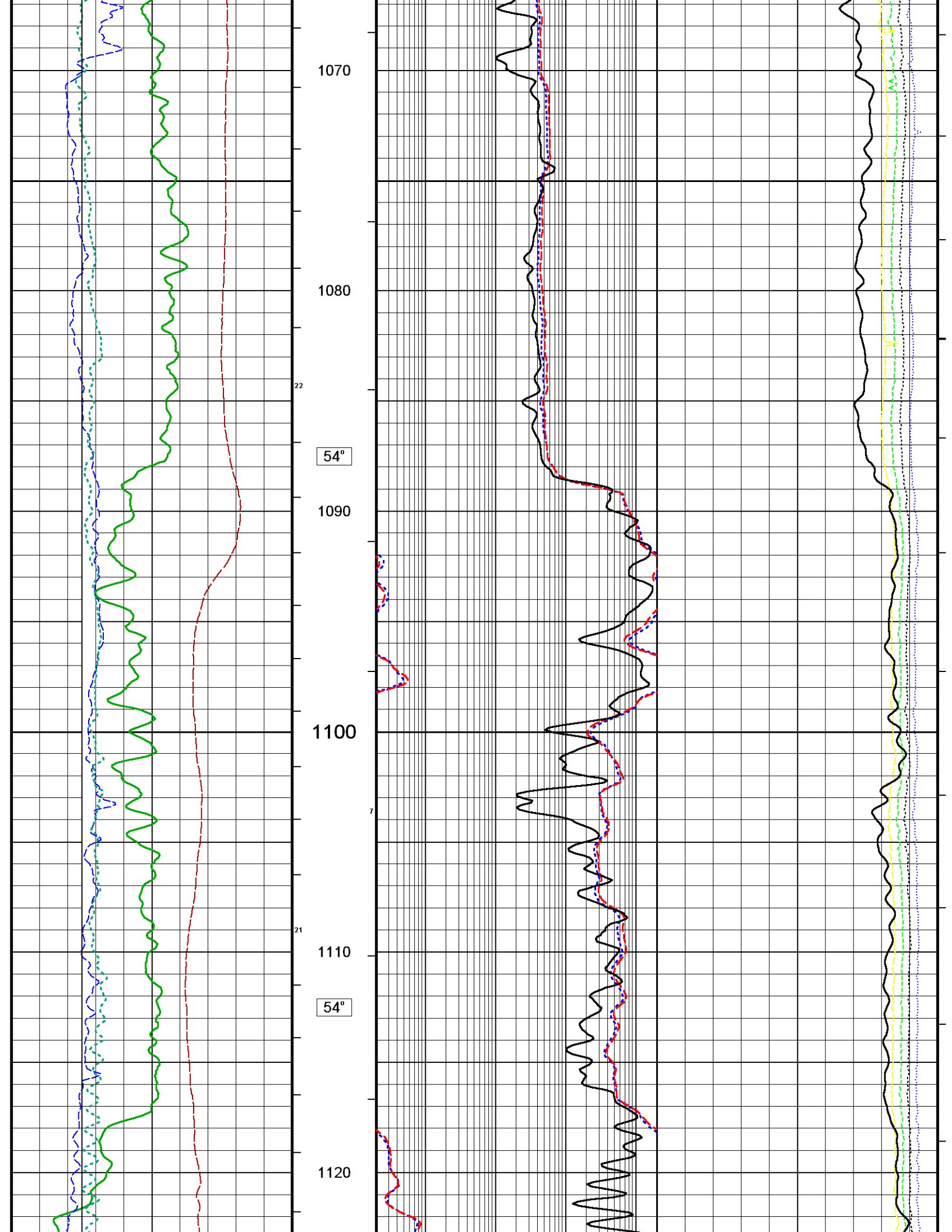
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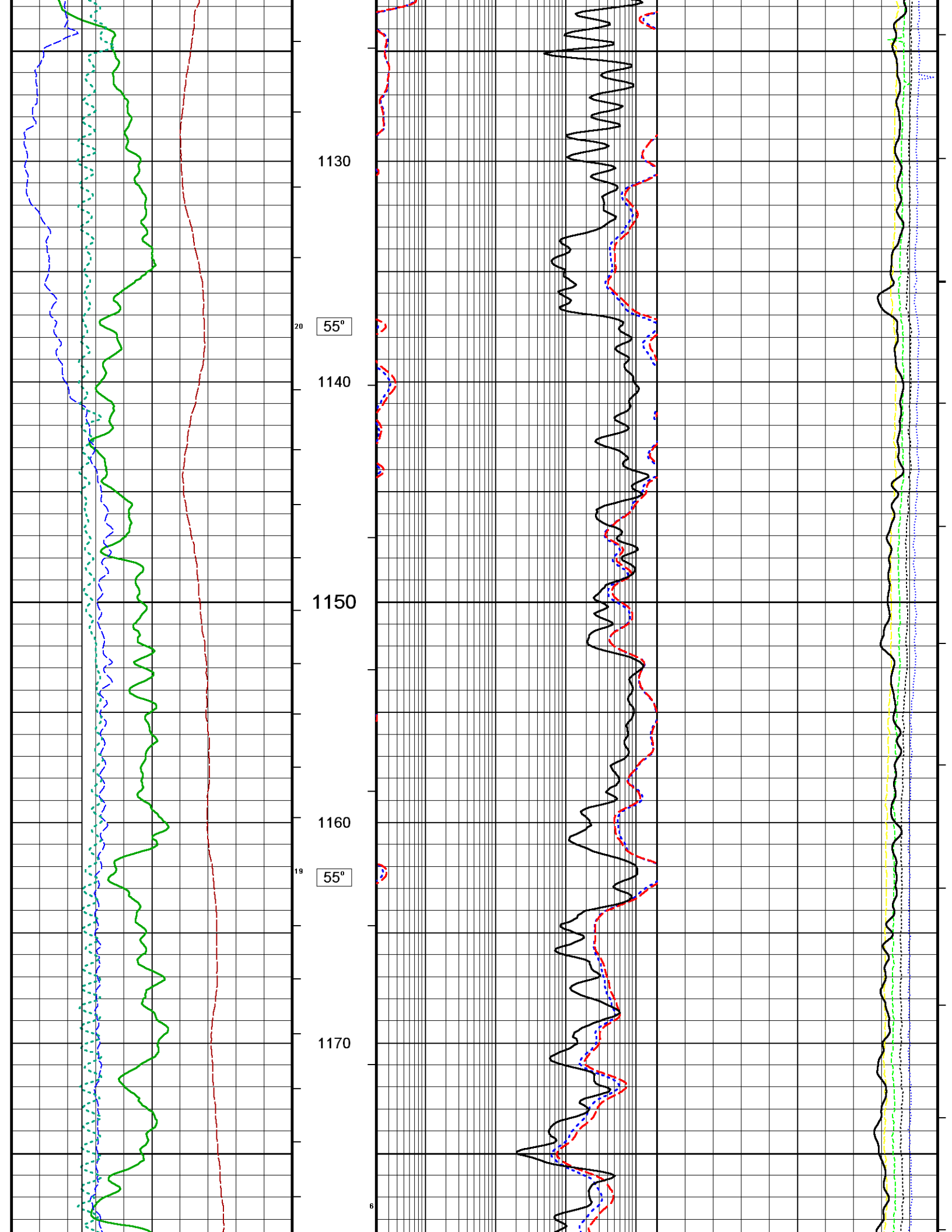
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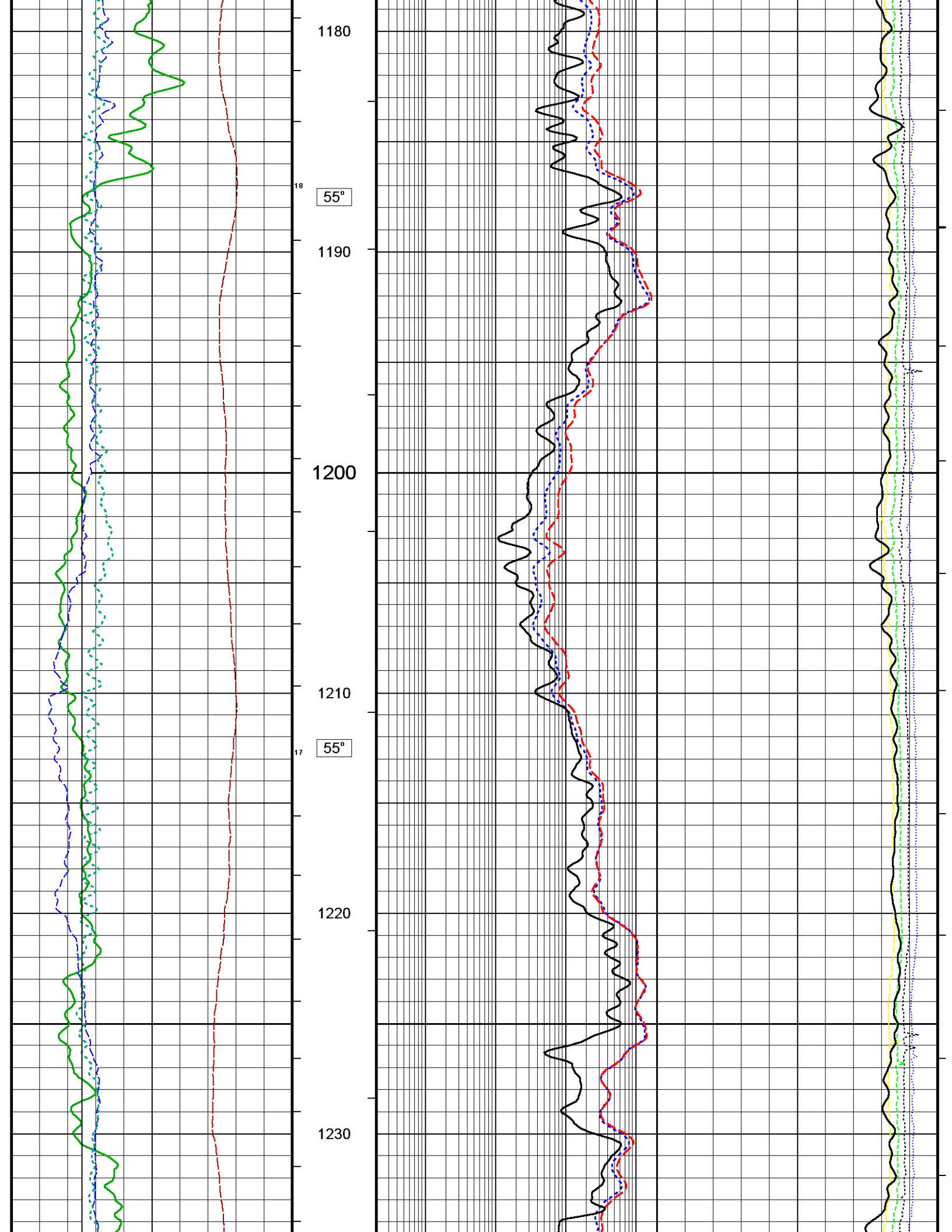


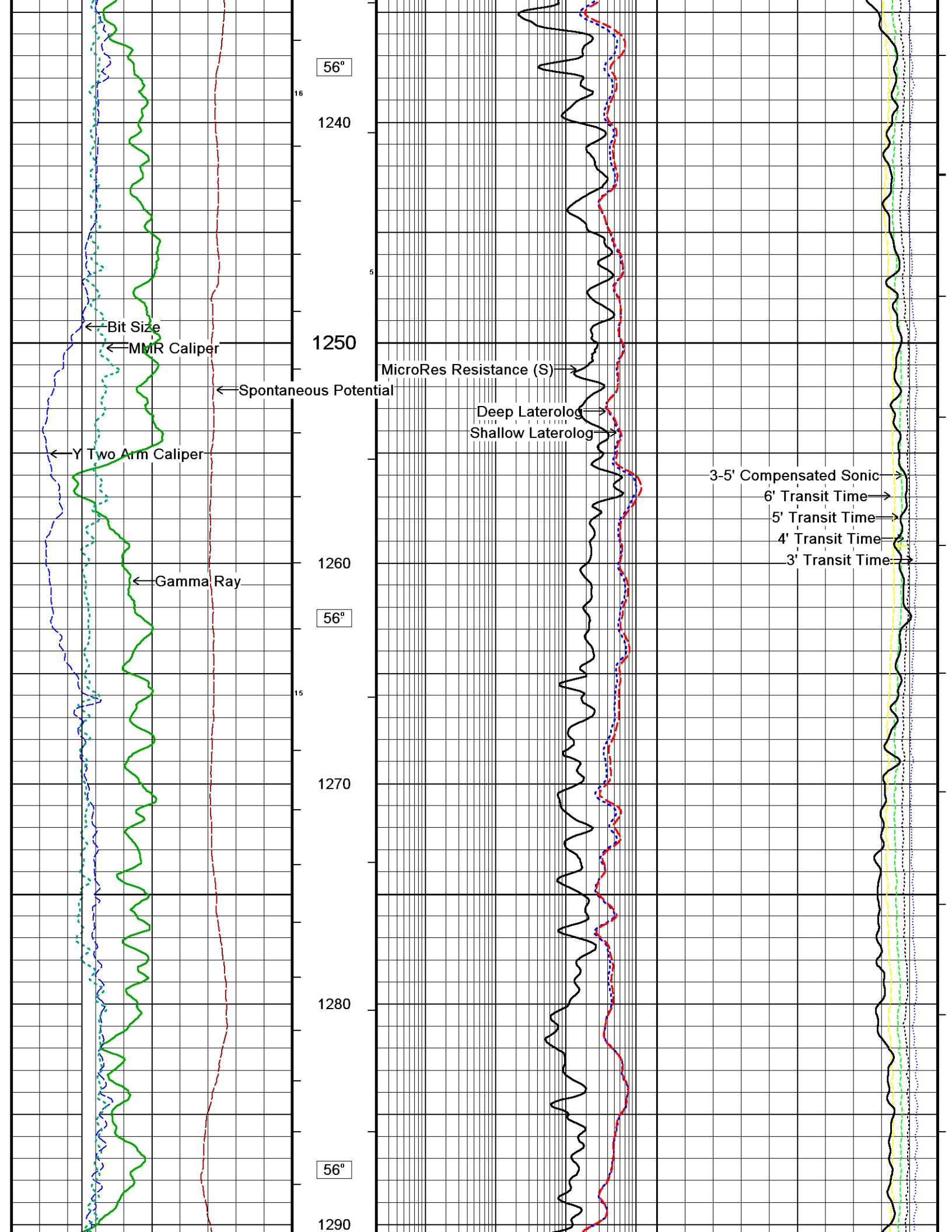


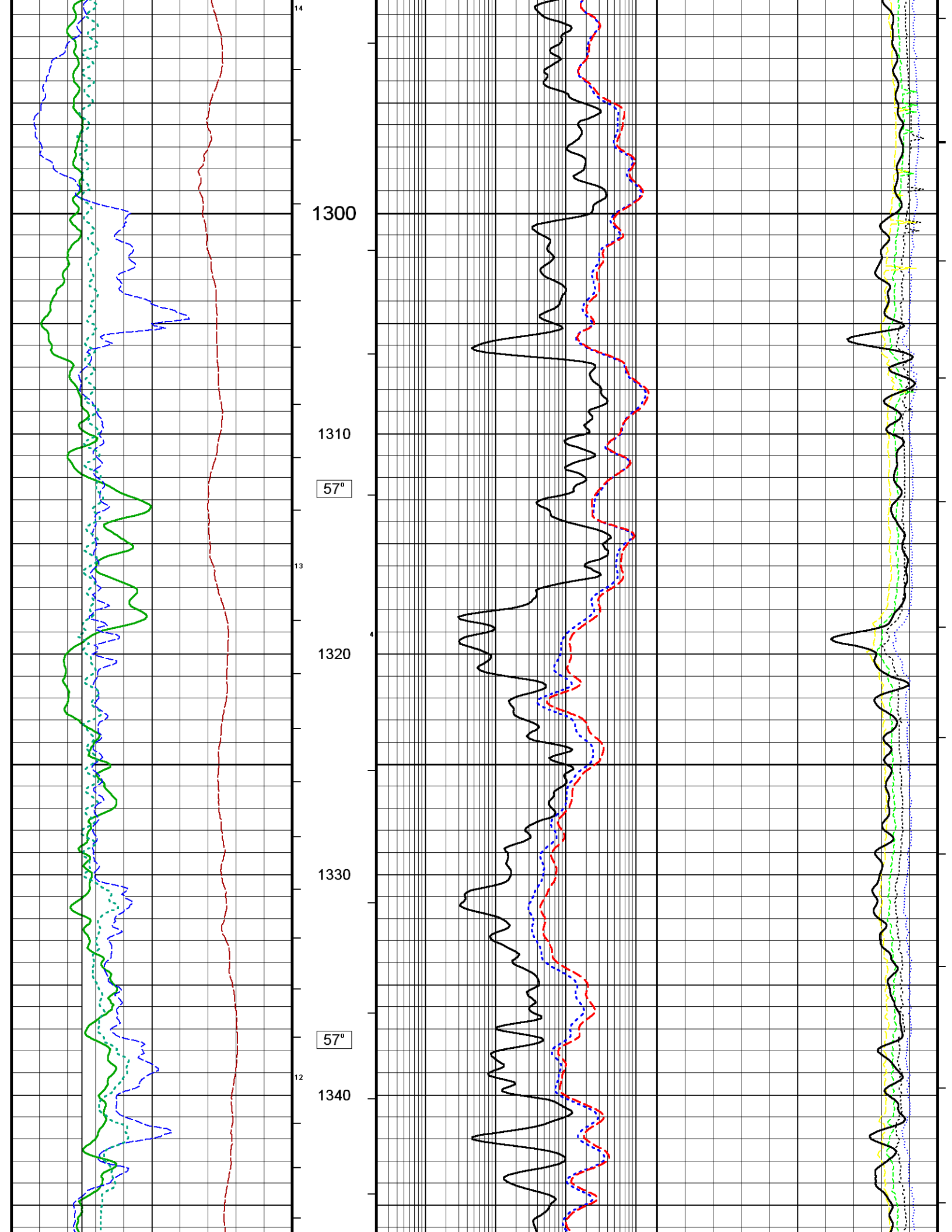


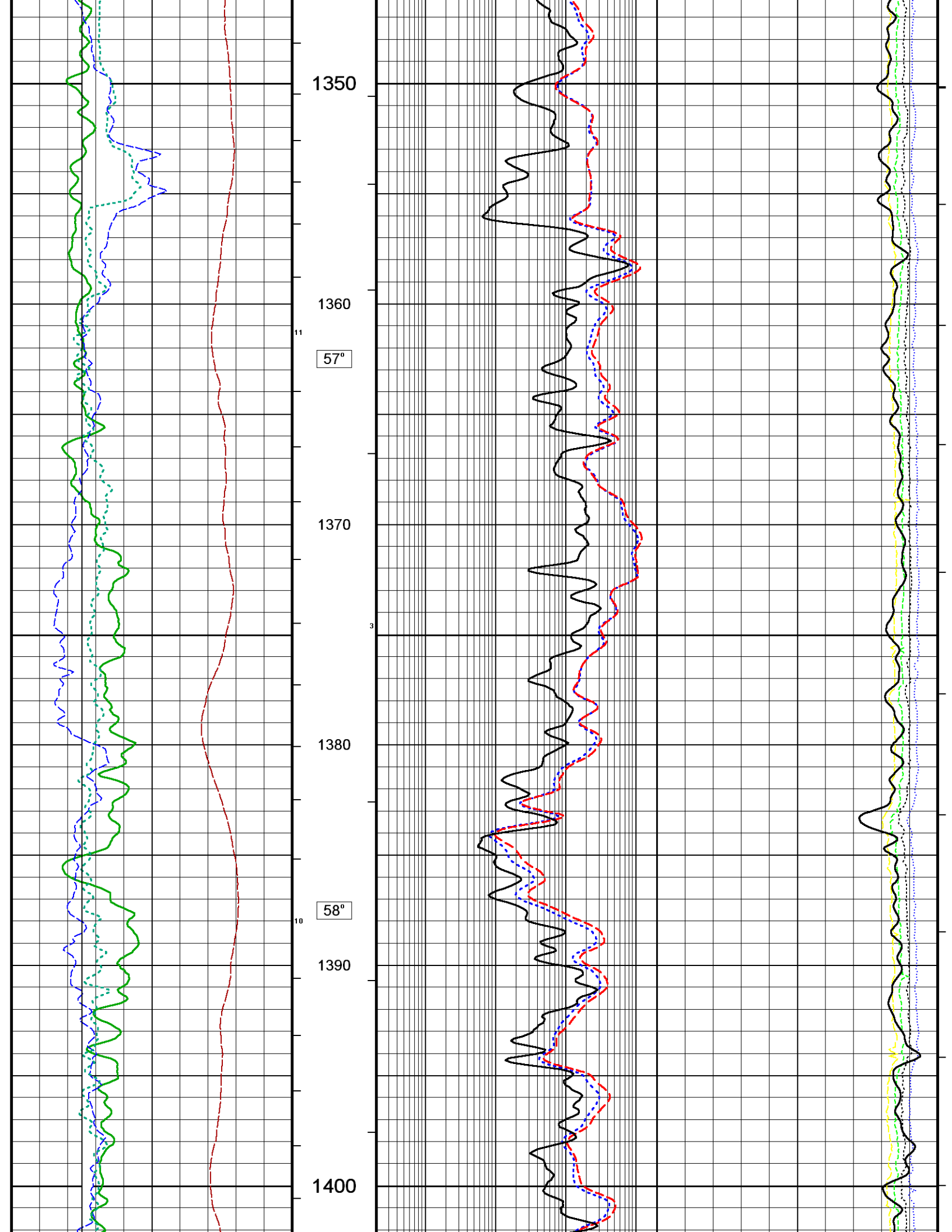


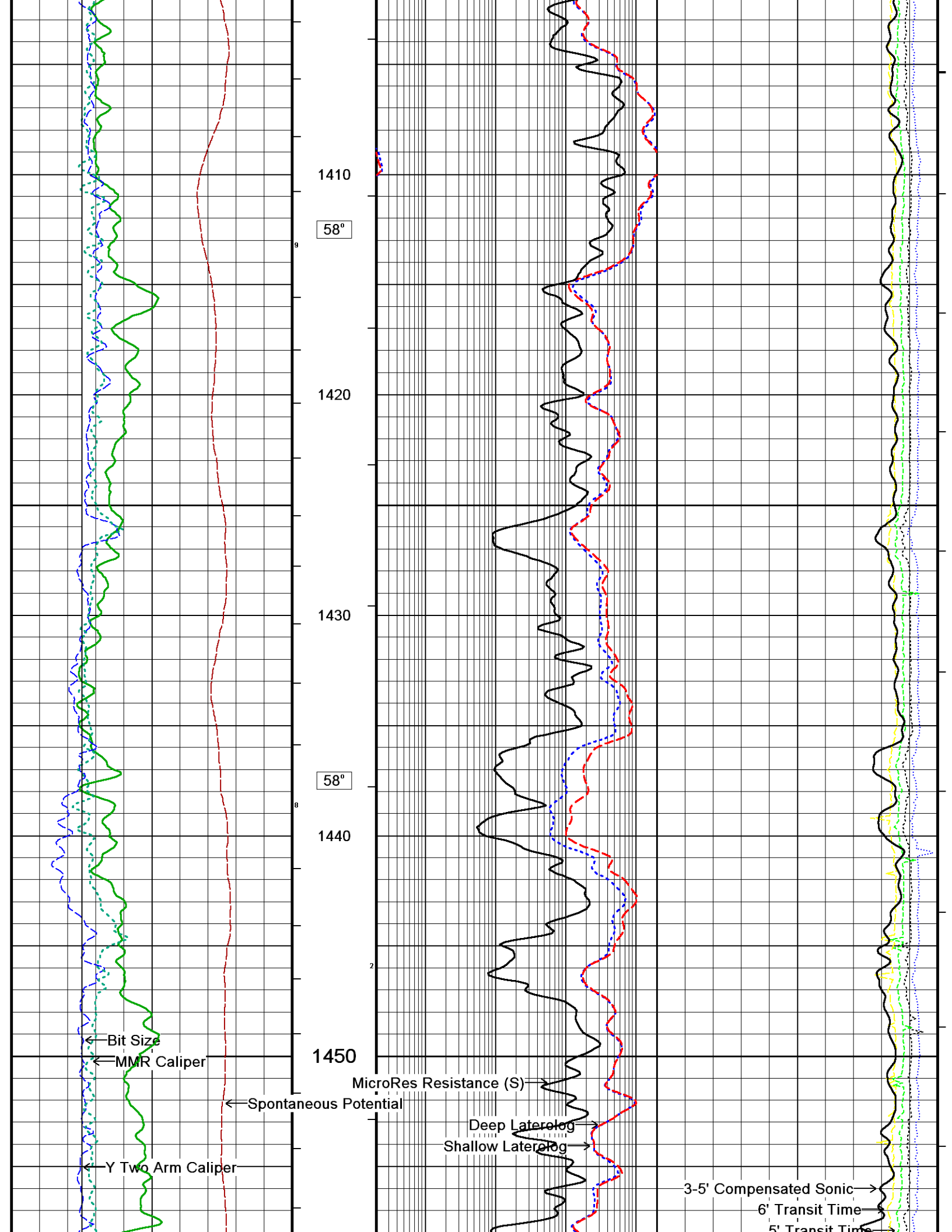


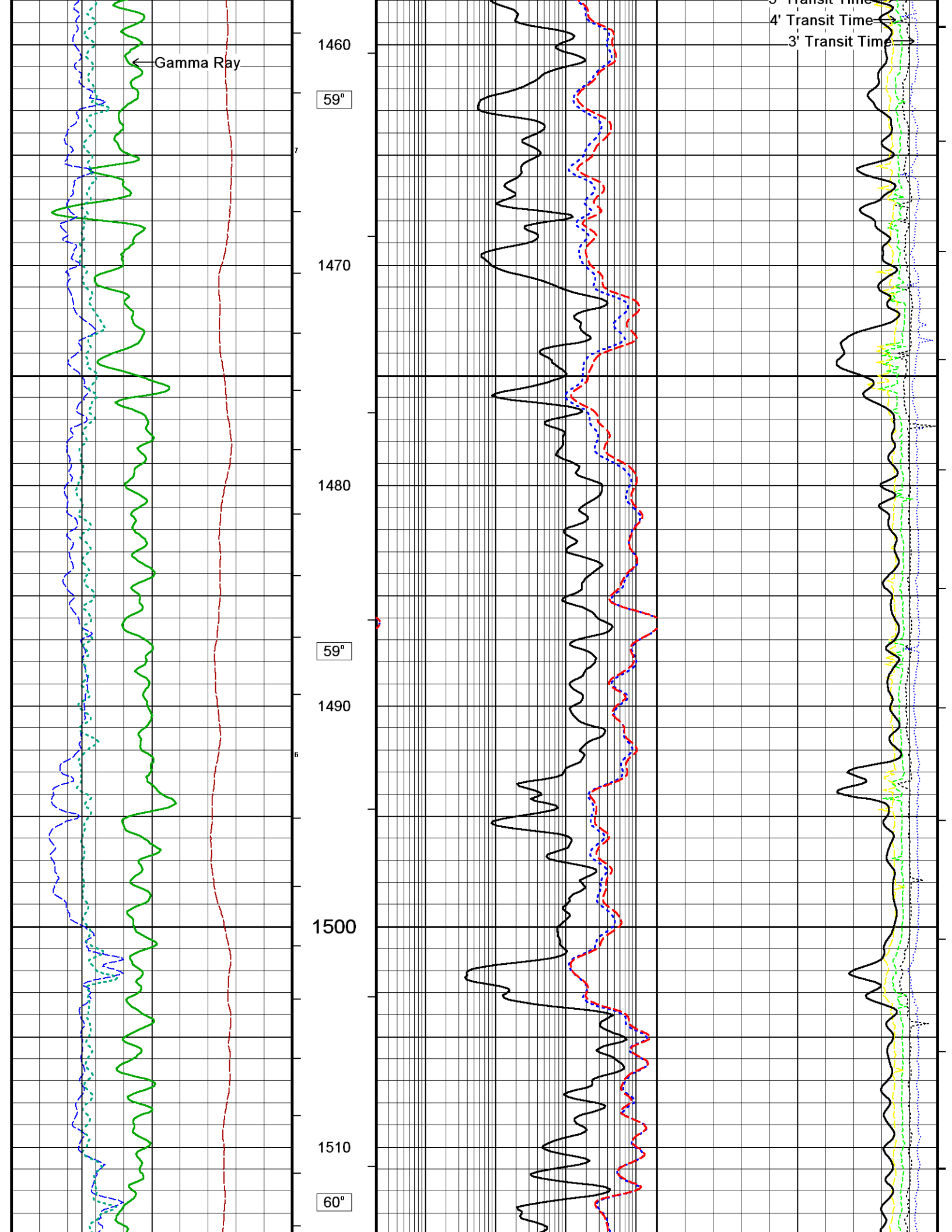


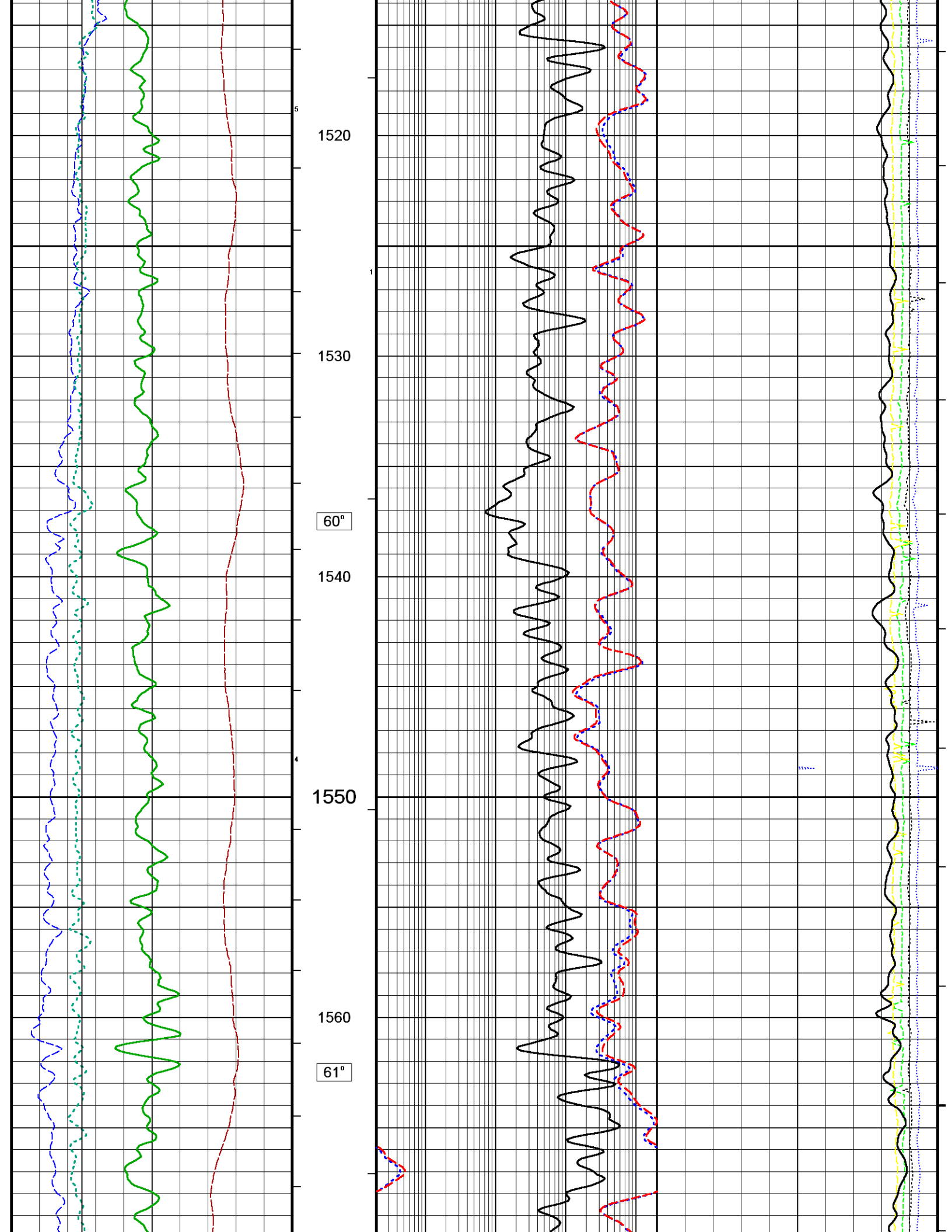


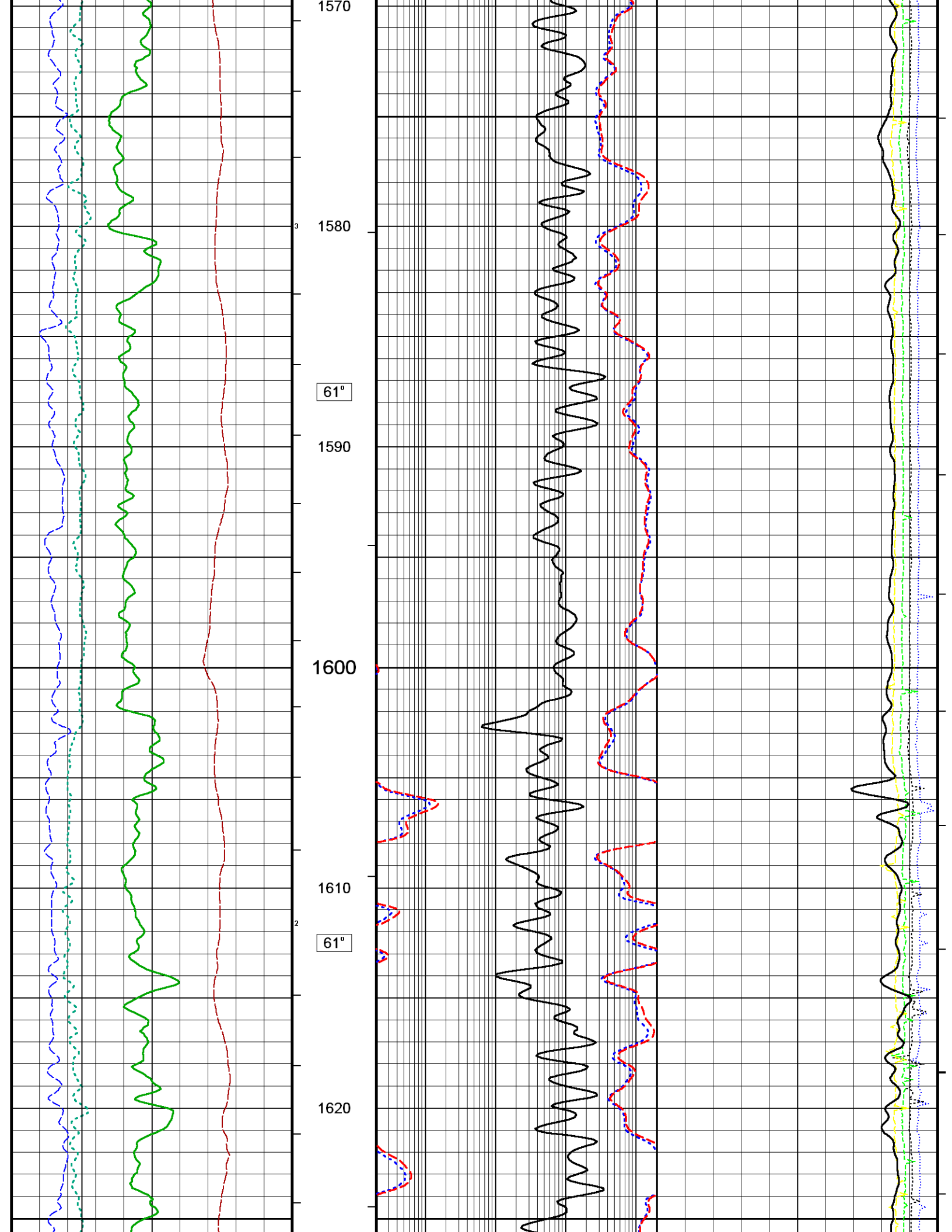


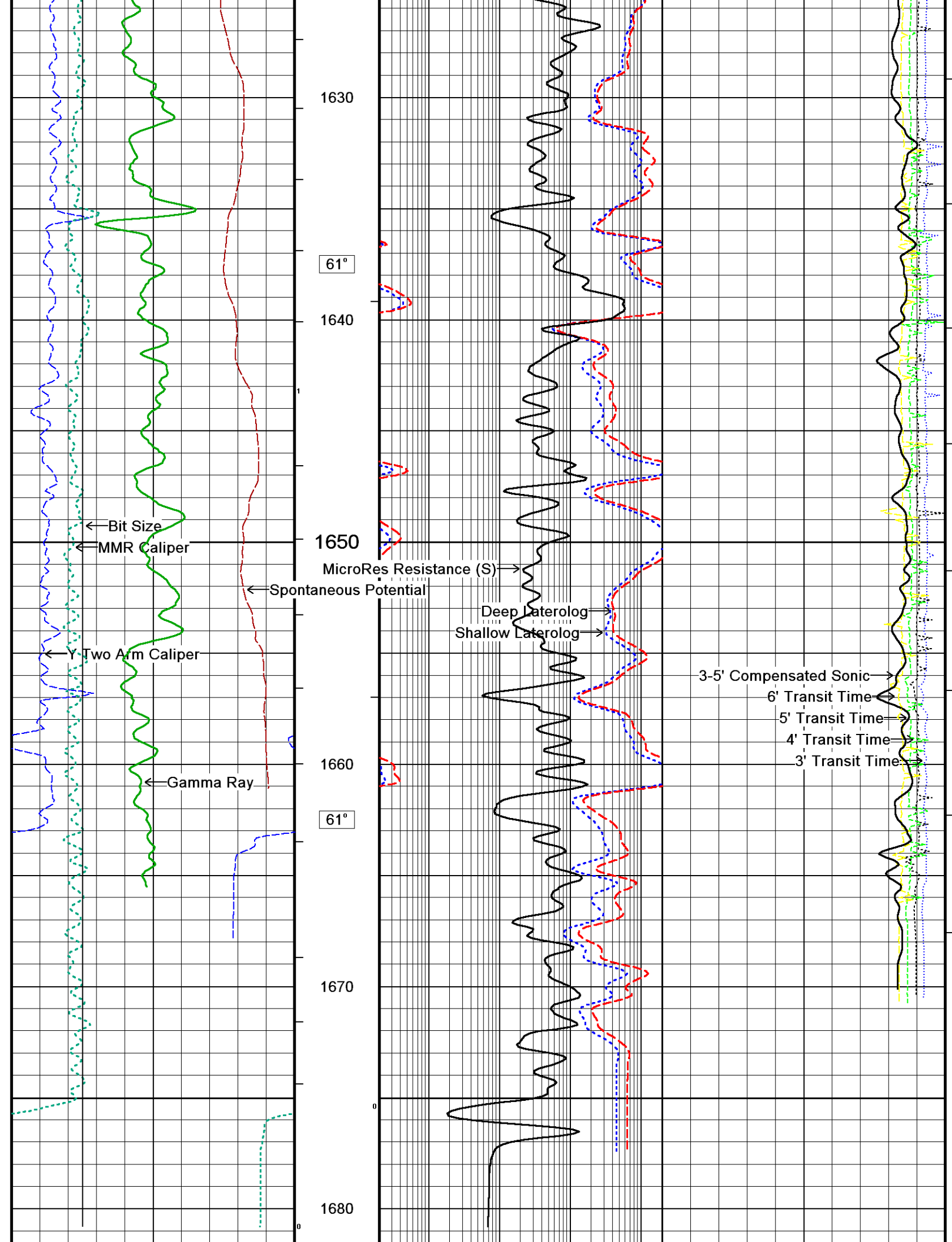


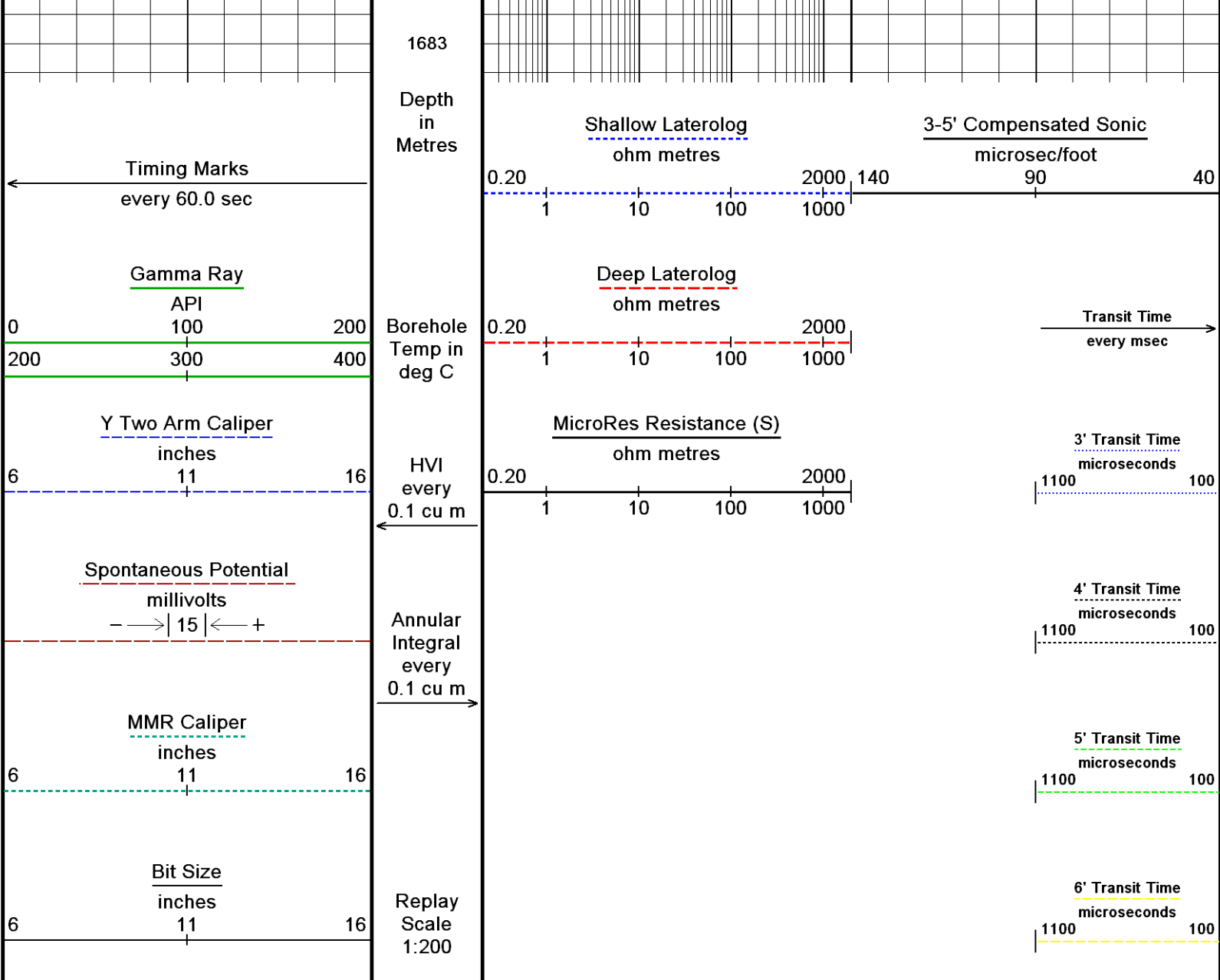








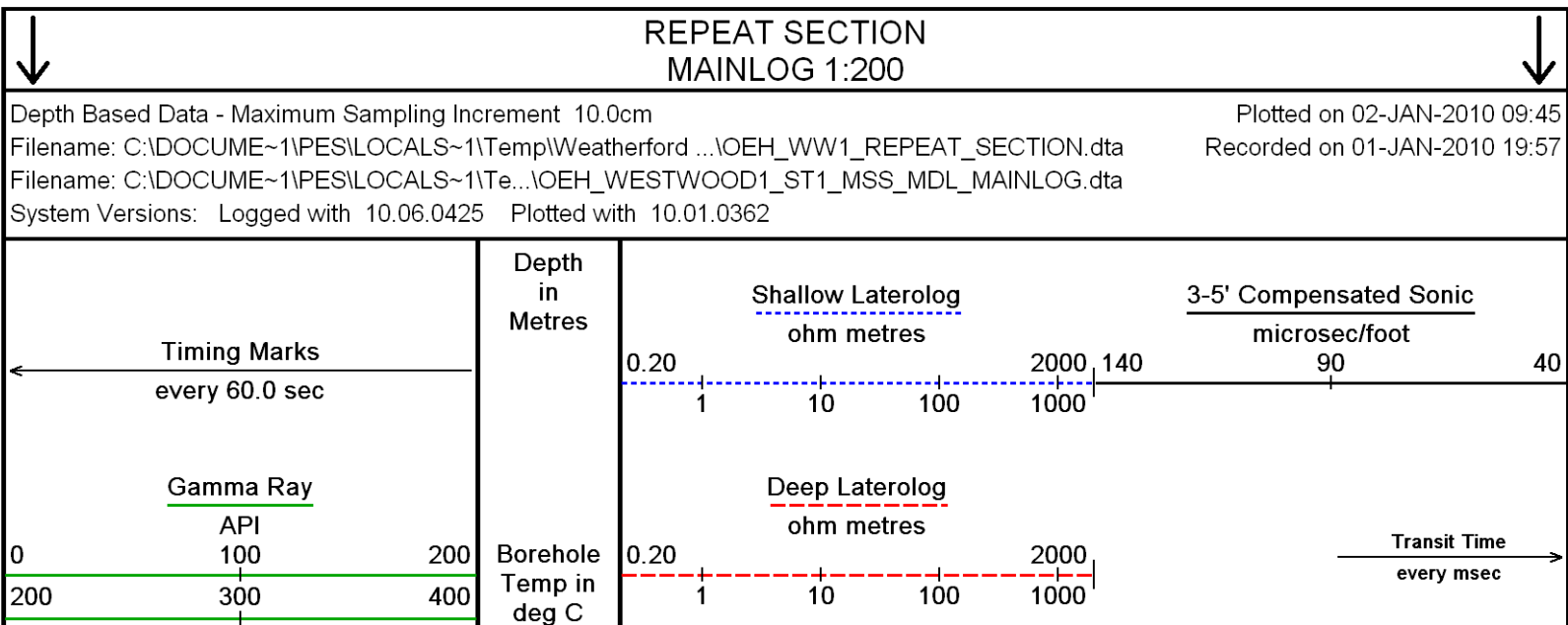


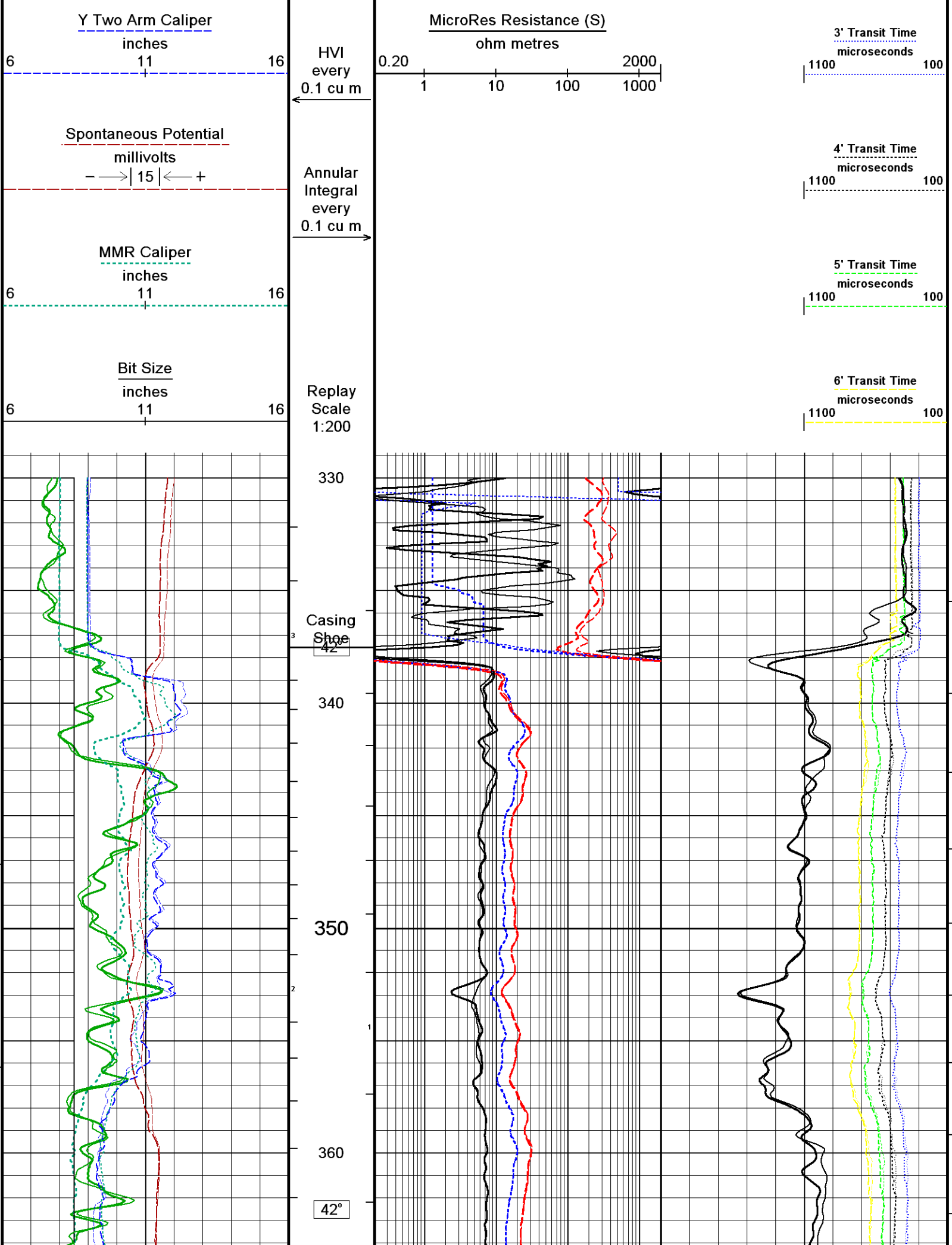


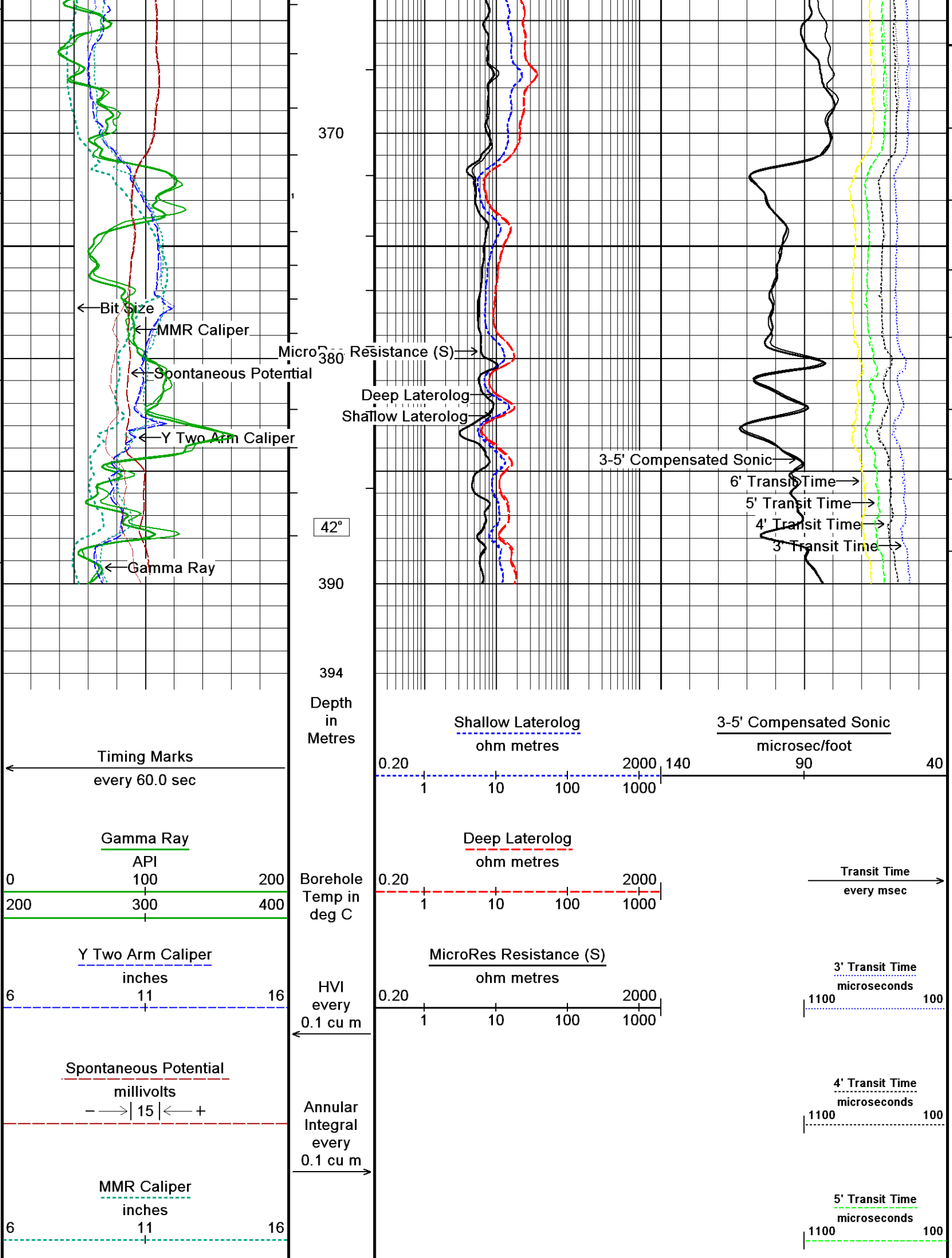
Depth Based Data - Maximum Sampling Increment 10.0cm
Filename: C:\DOCUME~1\PES\LOCALS~1\Te...\OEH_WESTWOOD1_ST1_MSS_MDL_MAINLOG.dta
System Versions: Plotted with 10.01.0362

Plotted on 02-JAN-2010 09:45

MAINLOG 1: 200







<div> <div>Bit Size</div> <div>inches</div> <div>61116</div> </div>		<div> <div>Replay</div> <div>Scale</div> <div>1:200</div> </div>	<div> <div>6' Transit Time</div> <div>microseconds</div> <div>1100100</div> </div>
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Depth Based Data - Maximum Sampling Increment 10.0cm

Plotted on 02-JAN-2010 09:45

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

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REPEAT SECTION

MAINLOG 1:200

↑

BEFORE SURVEY CALIBRATION

C:\DOCUME~1\PES\LOCALS~1\Temp\Weatherford PreView\0\OEH_WW1_MAINLOG.dta

General Constants All 000

Last Edited on 1-JAN-2010,07:59

General Parameters

Mud Resistivity0.544ohm-metres

Mud Resistivity Temperature25.000degrees C

Water Level0.000metres

Density/Neutron ProcessingWet Hole

Hole/Annular Volume and Differential Caliper Parameters

HVOL Method0

HVOL Caliper 1Y Two Arm Caliper

HVOL Caliper 2None

Annular Volume Diameter7.000inches

Caliper for Differential CaliperY Two Arm Caliper

Rwa Parameters

Porosity usedWyllie Lime. Sonic Por.

Resistivity usedDeep Laterolog

RWA Constant A0.610

RWA Constant M2.150

DOWNHOLE EQUIPMENT

C:\DOCUME~1\PES\LOCALS~1\Temp\Weatherford PreView\0\OEH_WW1_MAINLOG.dta

MCC-A 11C Tension Cablehead

MCC 1Length: 0.73 mWeight: 19.8 lb

11C-11B MTA-A Compact Tool Adaptor

MTA 1Length: 0.47 mWeight: 13.2 lb

Compact Stiff Bridle Electrode Sub.

MBE 23Length: 3.76 mWeight: 77.2 lb

Compact Stiff Bridle Electrode Sub.

MBE 54Length: 3.76 mWeight: 77.2 lb

19.94 mSPDL - Spontaneous Potential

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

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

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

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

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

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

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

9.24 m DT35 - 3-5' Compensated Sonic

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

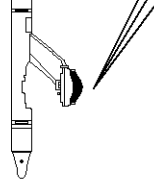
3.93 m DSSL - Shallow Laterolog
3.93 m DDLL - Deep Laterolog

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

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®