DLL-SLL-MLL-SONIC
DENSITY - NEUTRON
1:200

COMPANY	ESSENTIAL PETROLEUM EXPLORATION PTY LTD
WELL	EAST WING - 1ST
FIELD	EAST WING
PROVINCE/COUNTY	VICTORIA
COUNTRY/STATE	AUSTRALIA
LOCATION	SURFACE HOLE LOCATION

FIELD PRINT

AMG X	
AMG Y	
Latitude	-38°31'35.30" S
Longitude	142°46'52.64" E

Other Services

Permanent Datum M.S.L., Elevation 0 metres
Log Measured From K.B. @ 56.37 above Permanent Datum
Drilling Measured From K.B.

Elevations:	metres
KB	56.37
DF	56.10
GL	52.00

Date	29-MAY-2008			
Run Number	1			
Depth Driller	2305.00	metres		
Depth Logger	2285.85	metres		
First Reading	2285.00	metres		
Last Reading	5.00	metres		
Casing Driller	578.00	metres		
Casing Logger	578.50	metres		
Bit Size	8.50	inches		
Hole Fluid Type	KCL/POLYMER			
Density / Viscosity	1.17 g/c3	40.00 CP		
PH / Fluid Loss		6.70 ml/30Min		
Sample Source	FLOW LINE			
Rm @ Measured Temp	0.12 @ 25.0	ohm-m		
Rmf @ Measured Temp	0.10 @ 25.0	ohm-m		
Rmc @ Measured Temp	0.20 @ 25.0	ohm-m		
Source Rmf / Rmc	FILTER	PRESS		
Rm @ BHT	0.055 @ 81.0	ohm-m		
Time Since Circulation	17 HRS			
Max Recorded Temp	81.00	deg C		
Equipment Name	SCOMBO			
Equipment / Base	93002	SALE		
Recorded By	M. PARROTT			
Witnessed By	G. WAKELIN-KING			
Stop Circ	02:00/29 MAY		Last Line	

Last Edited: 29-MAY-2008 15:03

BOREHOLE RECORD

Bit Size inches	Depth From metres	Depth To metres
12.250	0.00	584.00
8.500	584.00	2305.00

CASING RECORD

Type	Size inches	Depth From metres	Shoe Depth metres	Weight pounds/ft
SURFACE	9.625	0.00	578.00	36.00

REMARKS

#) RUN NUMBER 1 IS THE PRIMARY DEPTH REFERENCE LOG. ALL OTHER RUNS ARE CORRELATED BACK TO THIS LOG.

SOFTWARE ISSUE: VERSION 8.03.0116 - APRIL 9, 2008.

CUSTOMER SCALES AND INTERVALS LOGGED.

RUN 1 - MMR, MLE, MUG, MSS, MPD, MDN, MCG, MBE, MBE TOOLS RAN IN COMBINATION.

RUN 2 - MFT, MCG TOOLS RAN IN COMBINATION.

HARDWARE:

RUN ONE
- MMR: 2 x 1" STANDOFFS.
- MUG: 1 x 1" STANDOFF.
- MSS: 3 x 1" STANDOFFS.
- MDN: DUAL BOW SPRING.
- MBE: 1 x 1" STANDOFF

- MBE: 1 x 1" STANDOFF.

RUN TWO
- MFT: 2 x BASKET CENTRALISERS.
- MCG: 1 x BASKET CENTRALISER.

MPD CORRECTED FOR CALIPER AND MUD DENSITY.

MDN CORRECTED FOR CALIPER, MUD DENSITY AND MUD SALINITY.

SERVICE REPORT NUMBER: 4121.

RIG: AUSTRALIAN DRILLING SERVICES 6.

TOTAL HOLE VOLUME (HVOL) FROM T.D. TO SURFACE CASING = 80.2 CUBIC METRES.

TOTAL ANNULAR VOLUME (AVOL) WITH 7 INCH CASING = 38.2 CUBIC METRES.

SONIC CASING SIGNAL OBSERVED AT 560 METRES. SONIC TOOL HAD A RECEIVER FAIL WHEN THE TOOLS STRING PULLED TIGHT AT 2030 METERS; THEREFORE DISPLAYED A 3'-4' SONIC RATHER THAN 3'-5'.

LOGGING UNIT J-FACTOR FOR V93002 = 0.8434.

LATITUDE, LONGITUDE AND ELEVATIONS ARE PRELIMINARY.

LOGGING CREW: ENGINEER 1 - M. PARROTT, OPERATOR 1 - P. COLLERY, OPERATOR 2 - B. WARD.

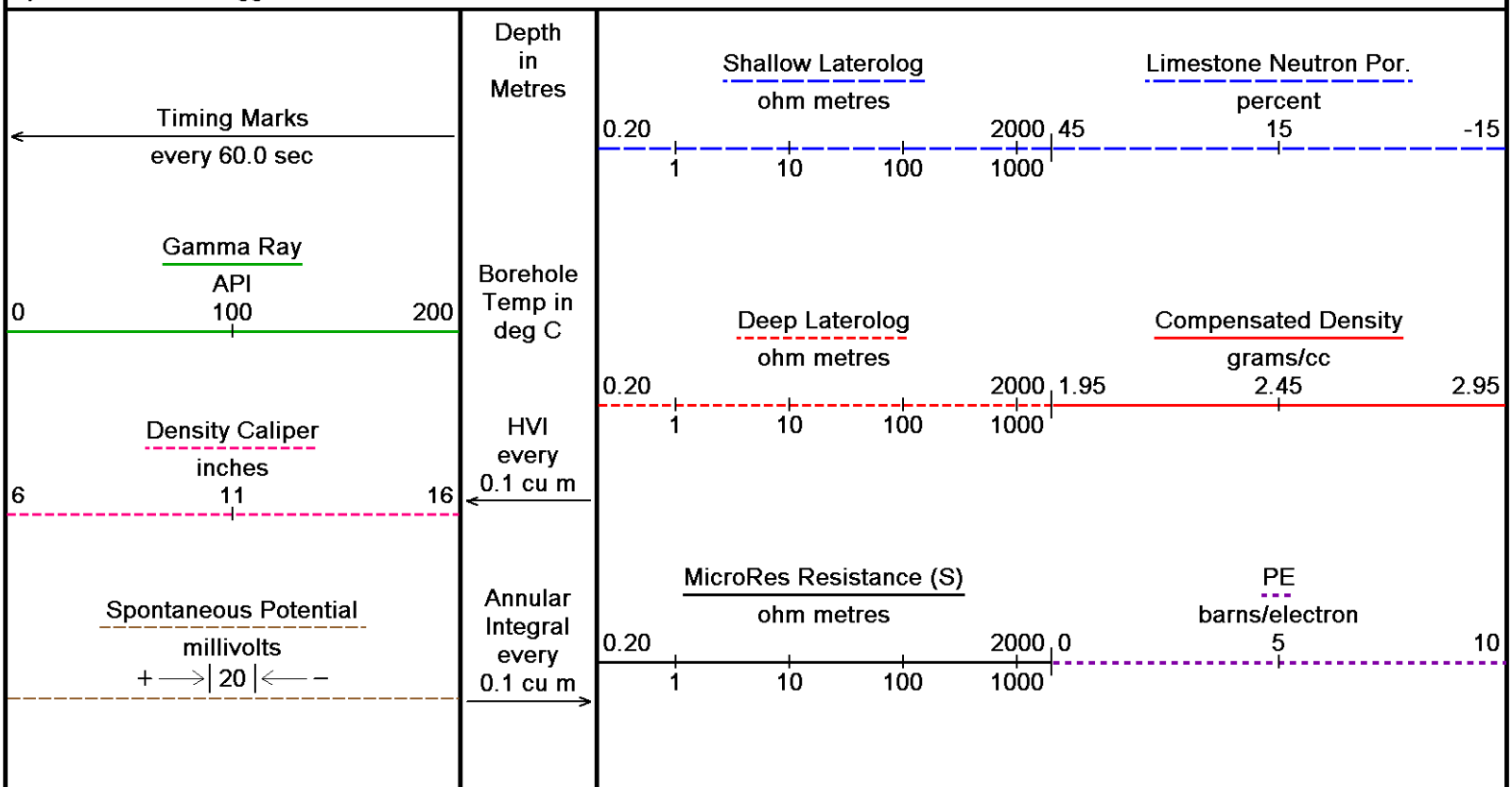
TOOLS STRING PULLED TIGHT AT 2030 METERS AND 2017 METERS; CALIPERS WERE CLOSED IN ORDER TO PASS THE OBSTRUCTION, THROUGH THESE AREAS SOME READINGS MAY BE AFFECTED.

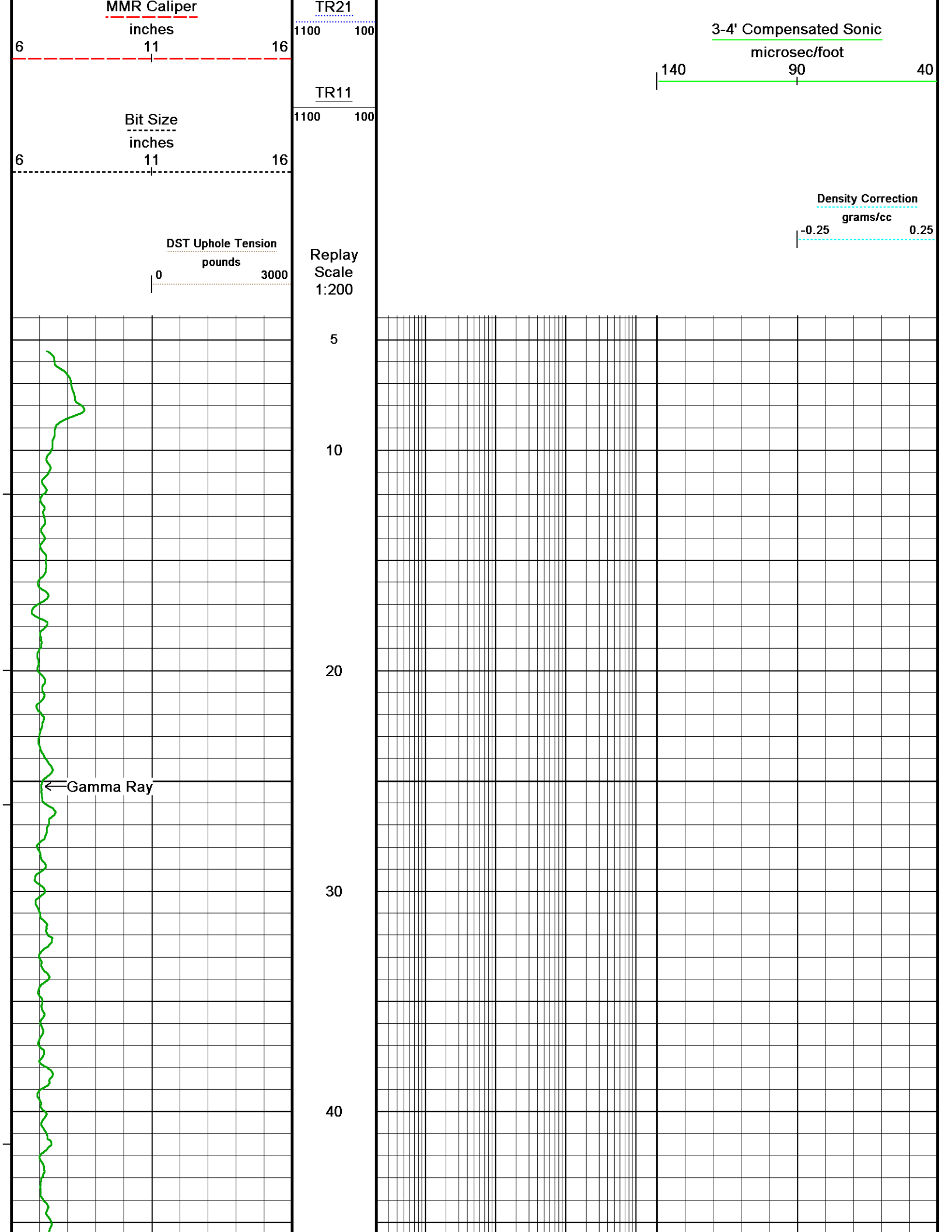
BRIDGED OFF AT 2285.85 METERS ON RUN 1. NO WIPER TRIP WAS PERFORMED.

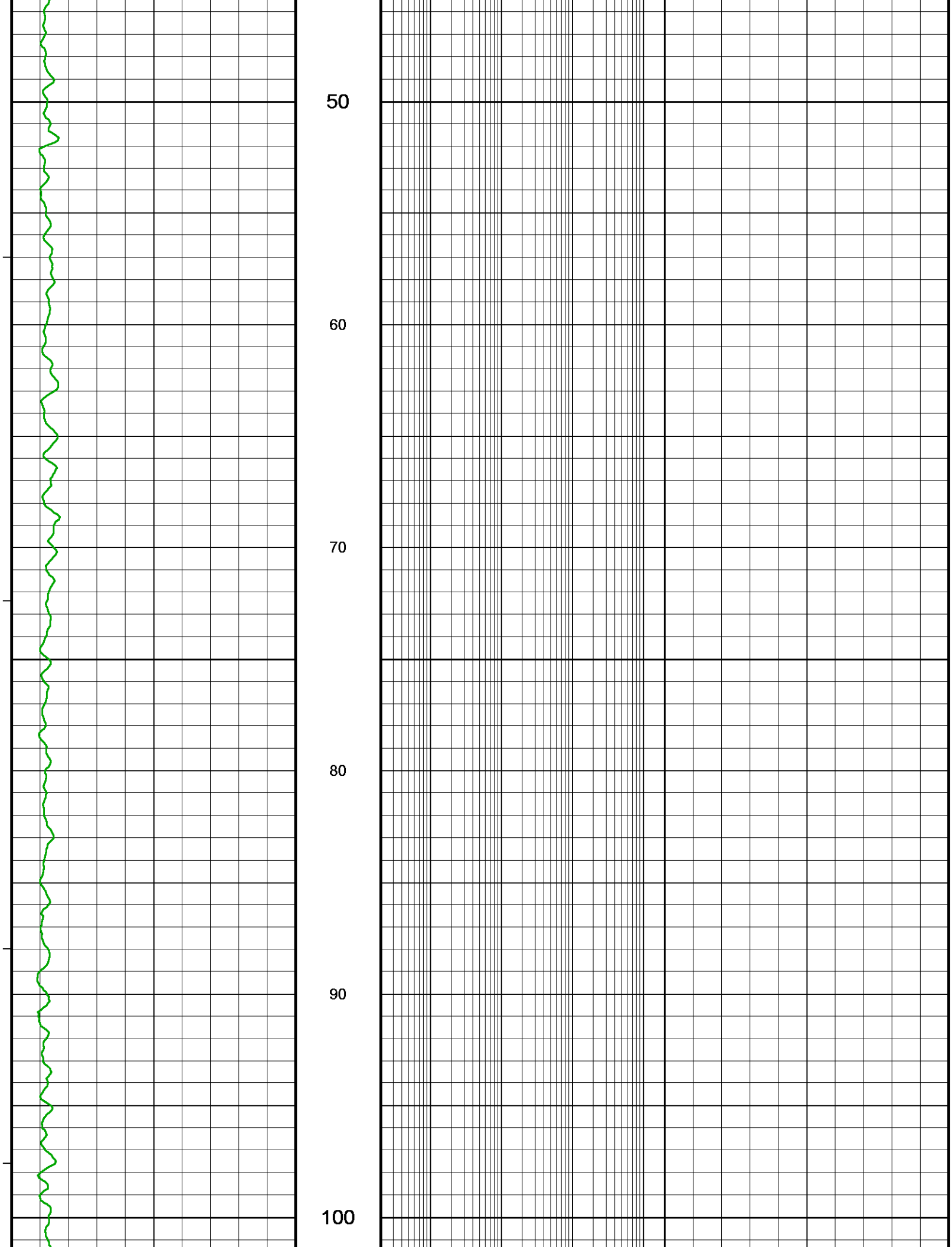
All interpretations are opinions based on inferences from electrical or other measurements and we cannot, and do not, guarantee the accuracy or correctness of any interpretations, and we shall not, except in the case of gross or wilful negligence on our part, be liable or responsible for any loss, costs, 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.

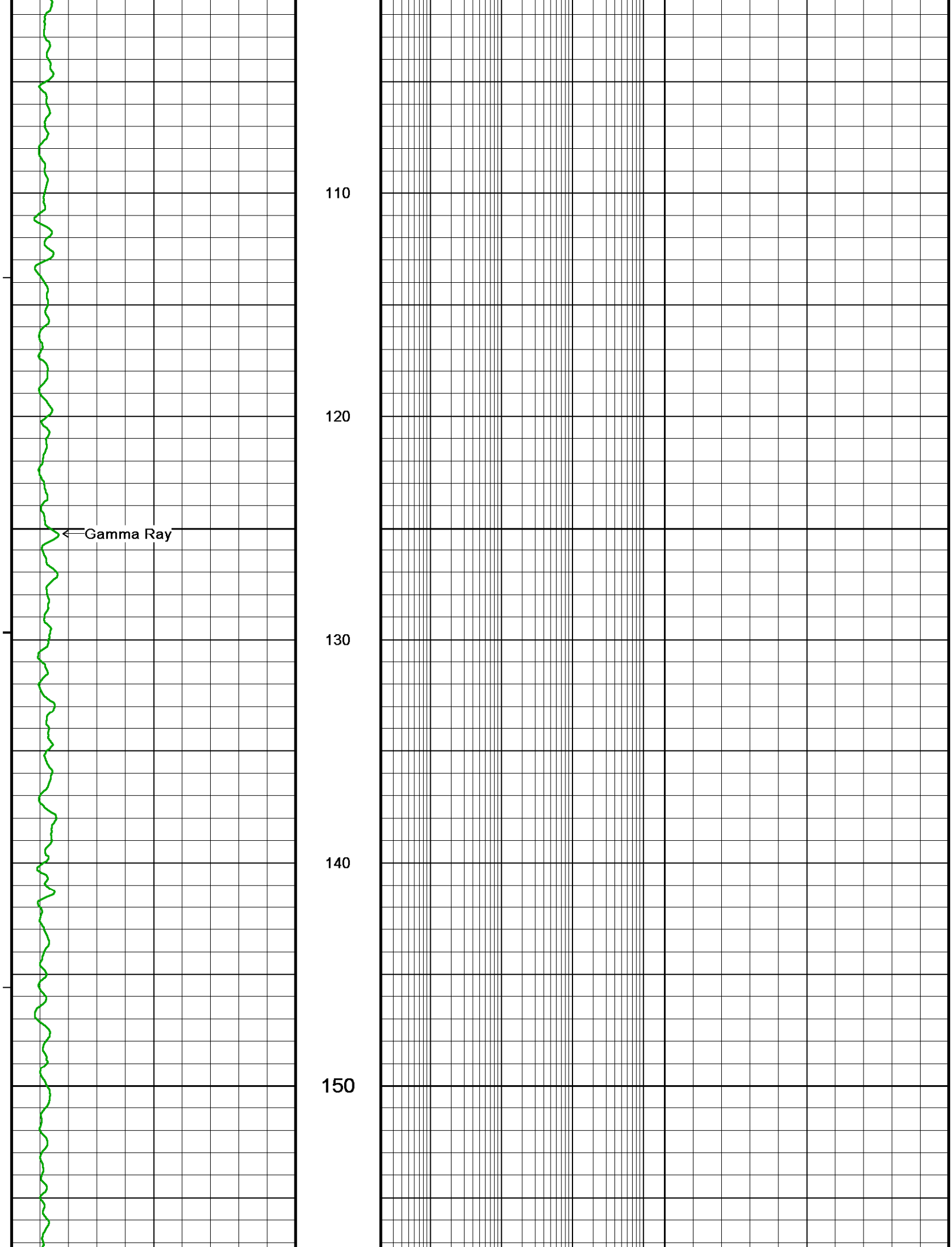
MAIN LOG 1:200

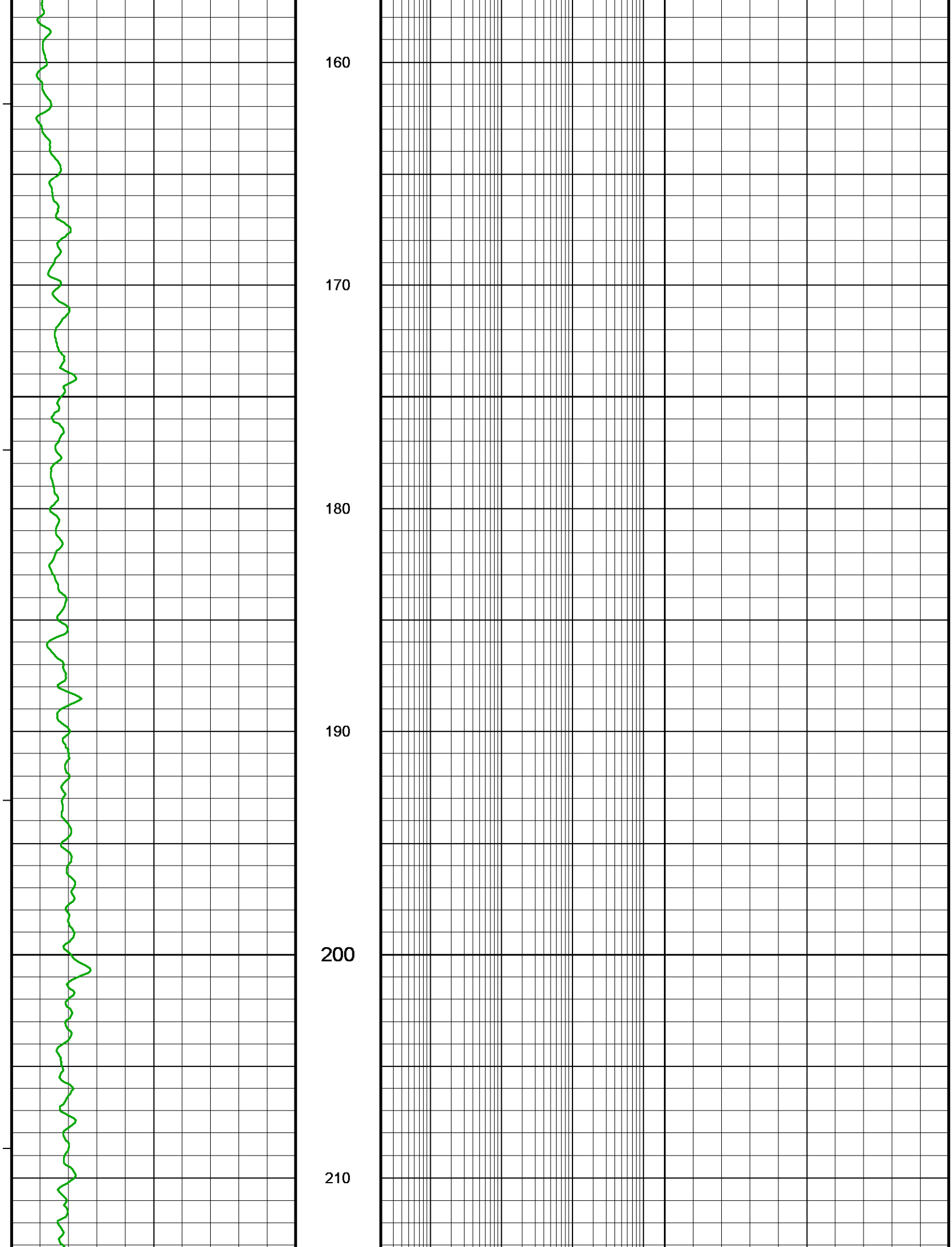
Depth Based Data - Maximum Sampling Increment 10.0cm — Plotted on 30-MAY-2008 01:11
Filename: C:\DOCUME~1\HELILI~1\LOCALS~1\Temp\Weatherford Pr...\EASTWING_1_MAINLOG.dta — Recorded on 29-MAY-2008 20:08
System Versions: Logged with 8.03.0116 Processed with 8.03.0116 Plotted with 8.01.0107




MMR Caliper
inches
6
11
16
TR21
1100
100
TR11
1100
100
3-4' Compensated Sonic
microsec/foot
140
90
40
Bit Size
inches
6
11
16
Density Correction
grams/cc
-0.25
0.25
DST Uphole Tension
pounds
0
3000
Replay
Scale
1:200
5
10
20
30
40
Gamma Ray


50
60
70
80
90
100


110
120
Gamma Ray
130
140
150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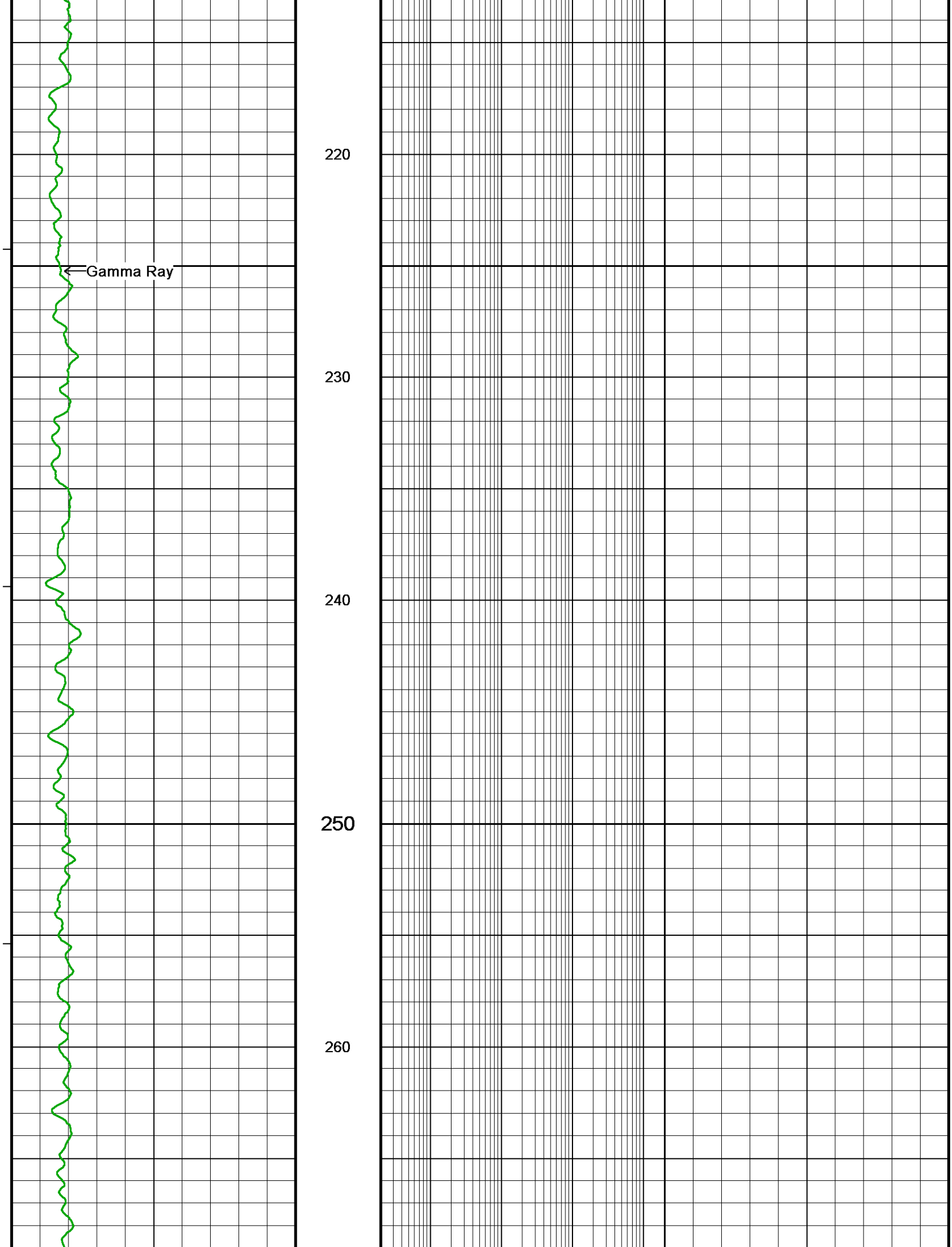
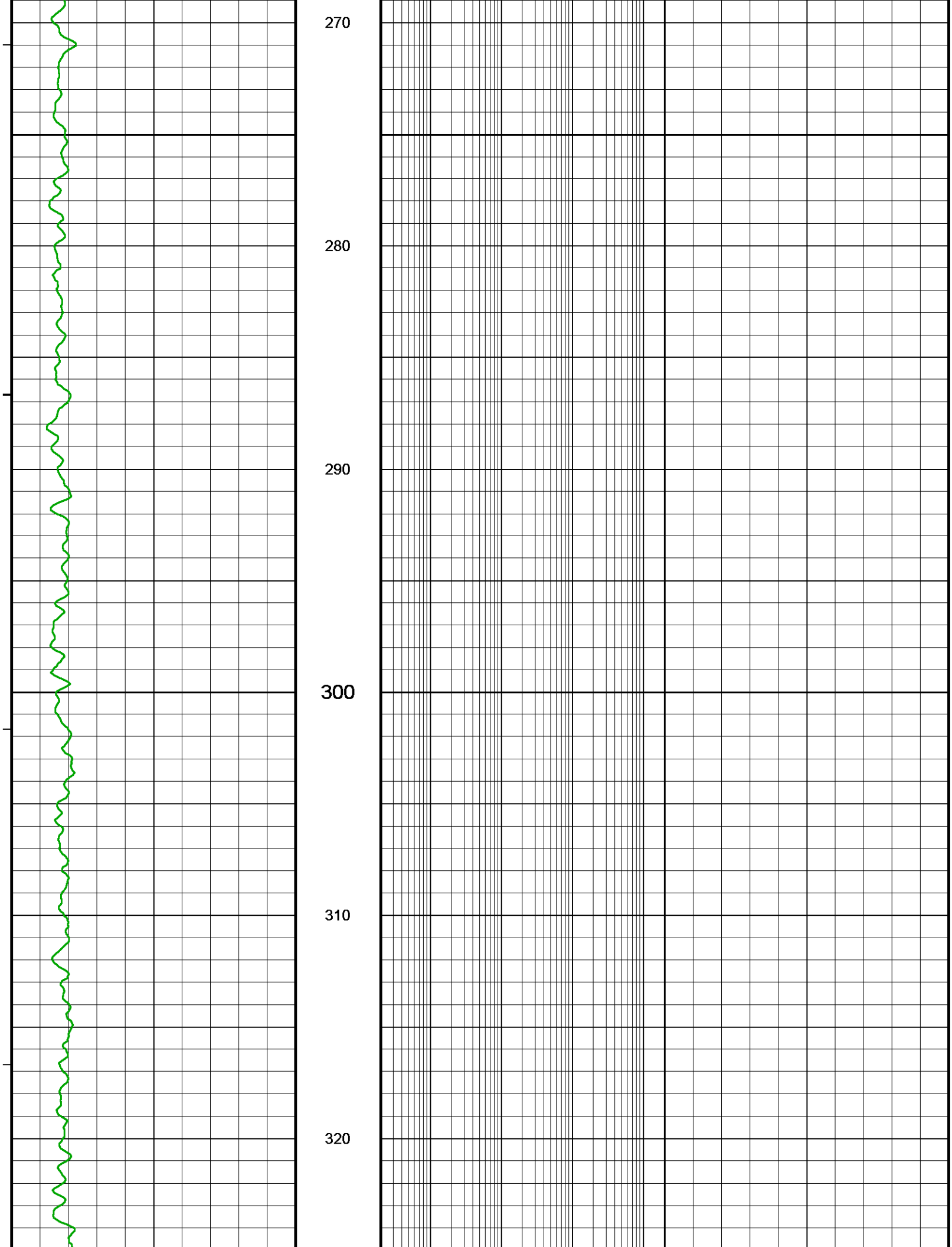
170
180
190
200
210


220
Gamma Ray
230
240
250
260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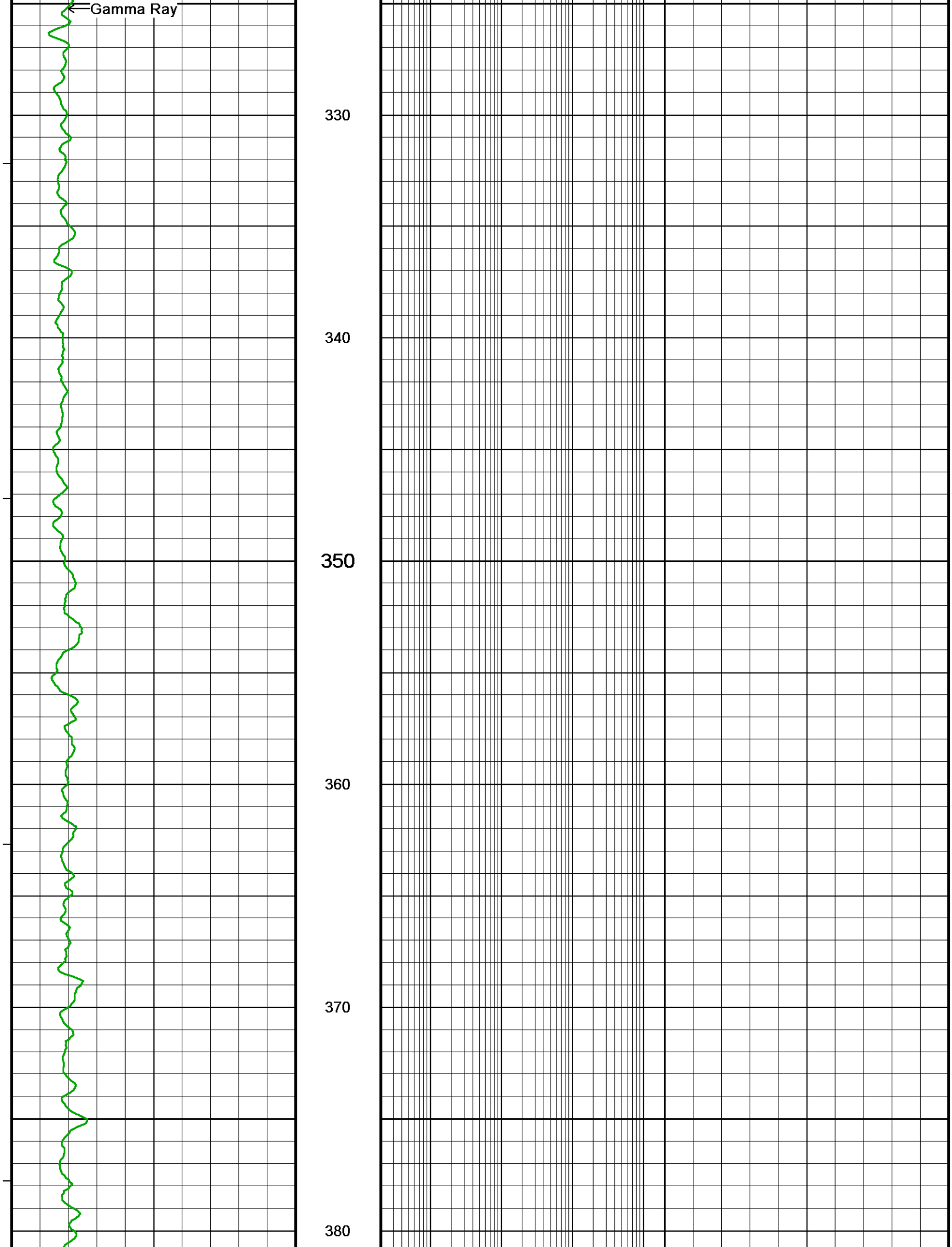
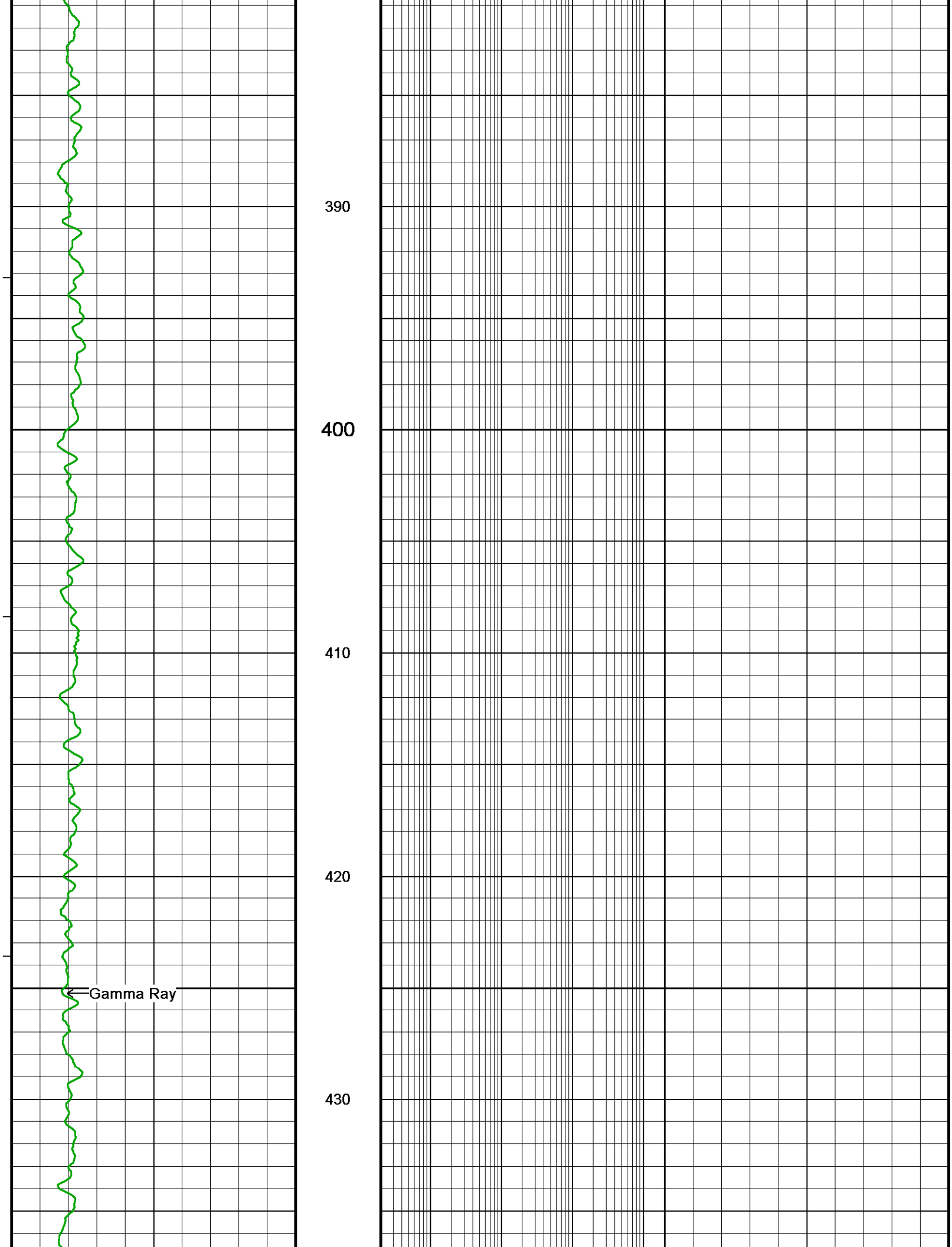
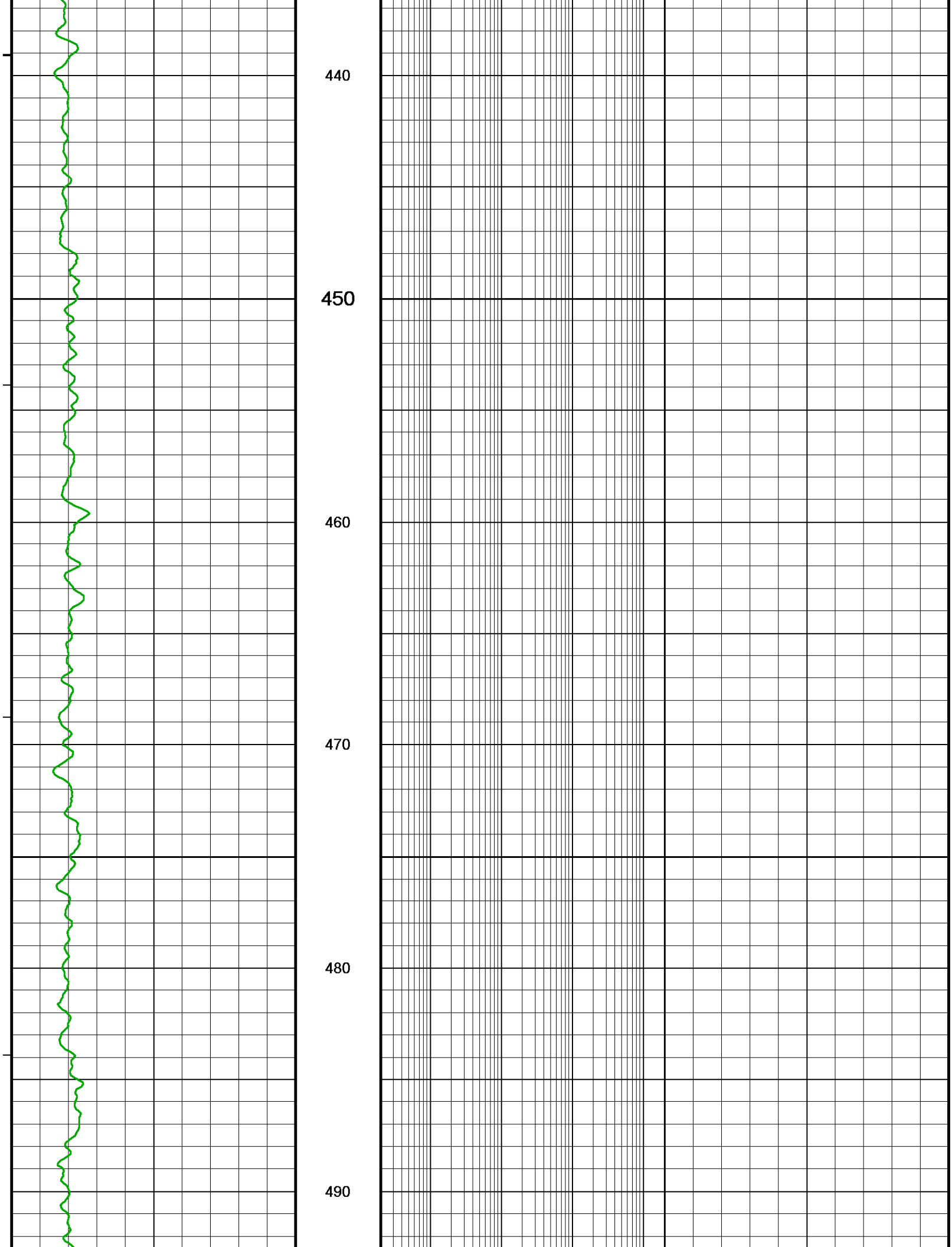
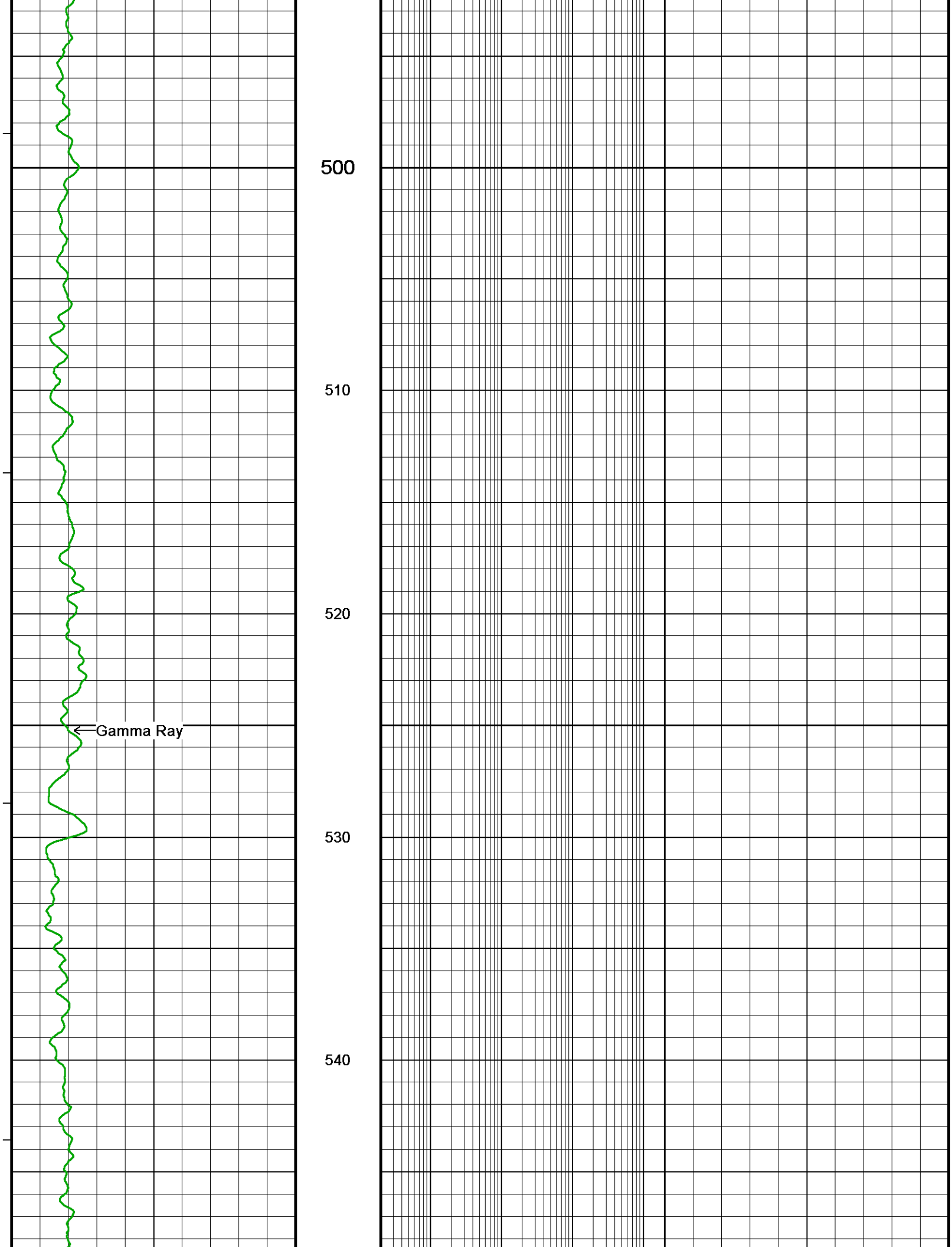
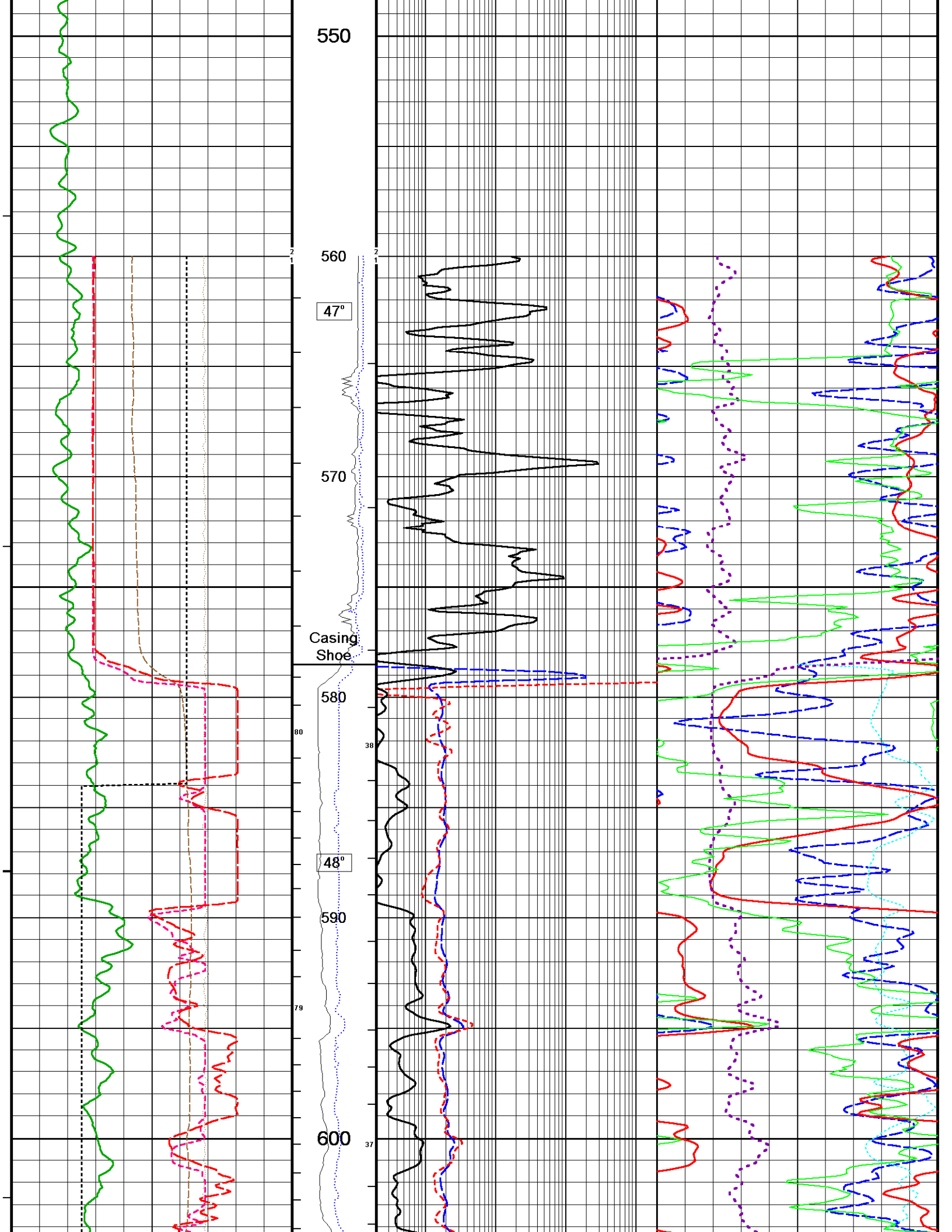
280
290
300
310
320

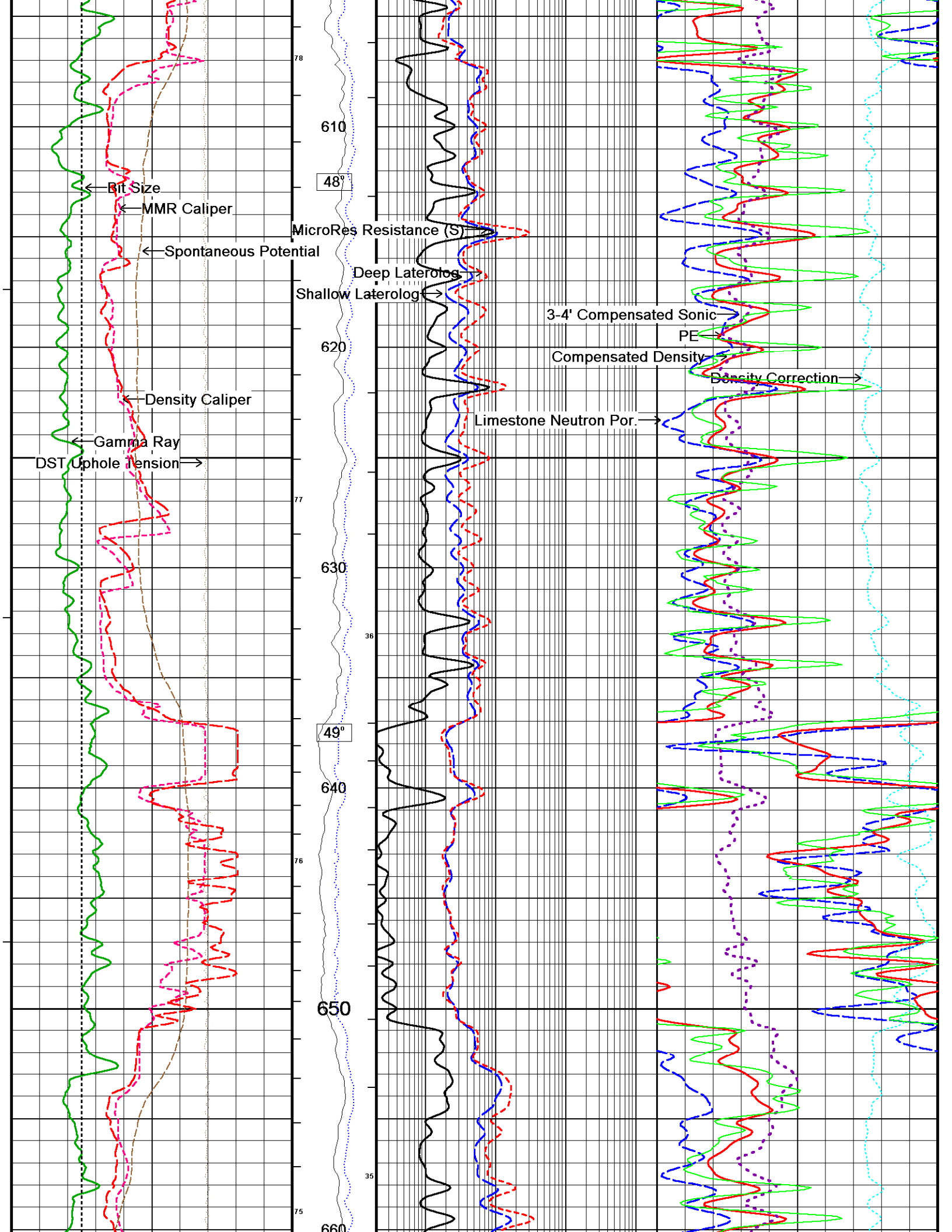

Gamma Ray
330
340
350
360
370
380

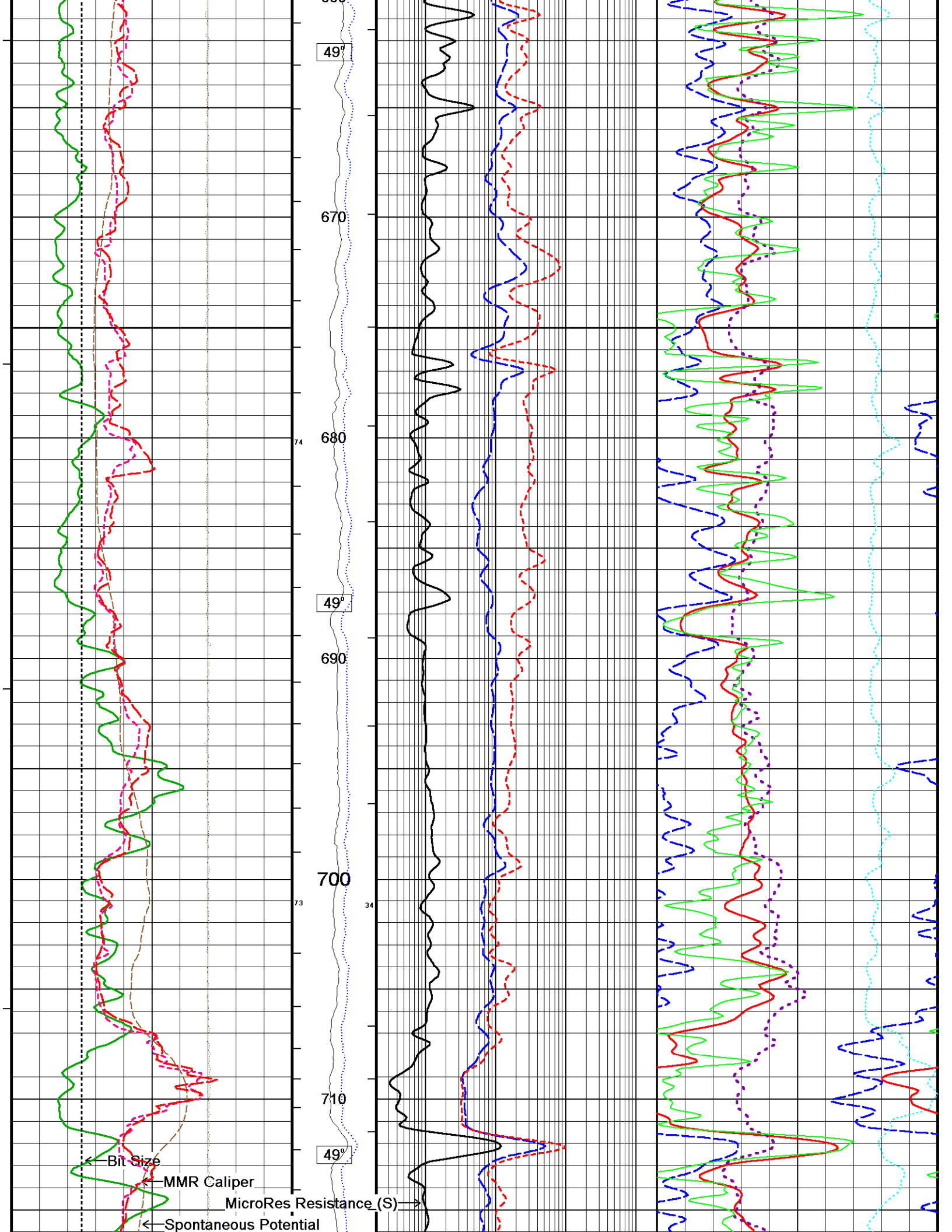

390
400
410
420
Gamma Ray
430

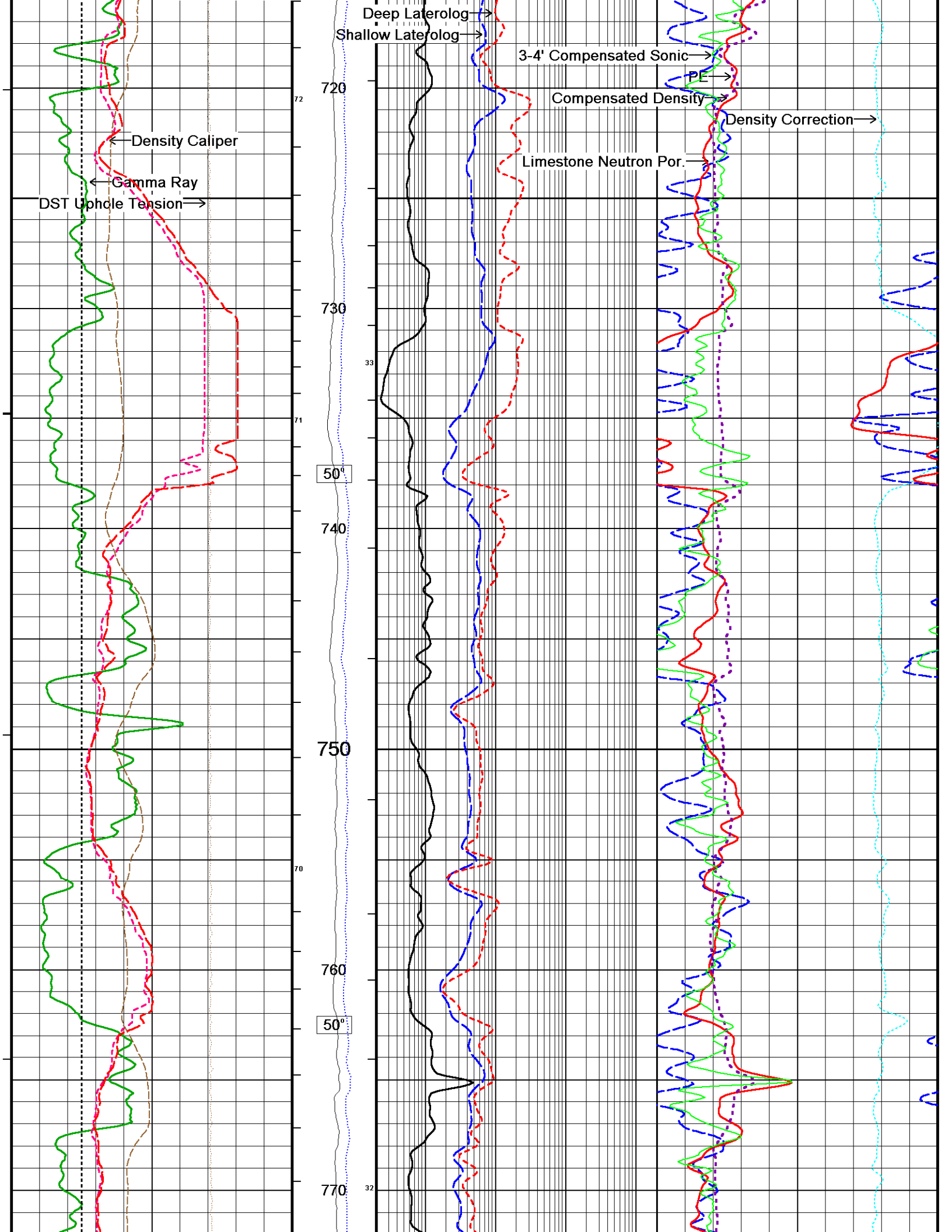

440
450
460
470
480
490

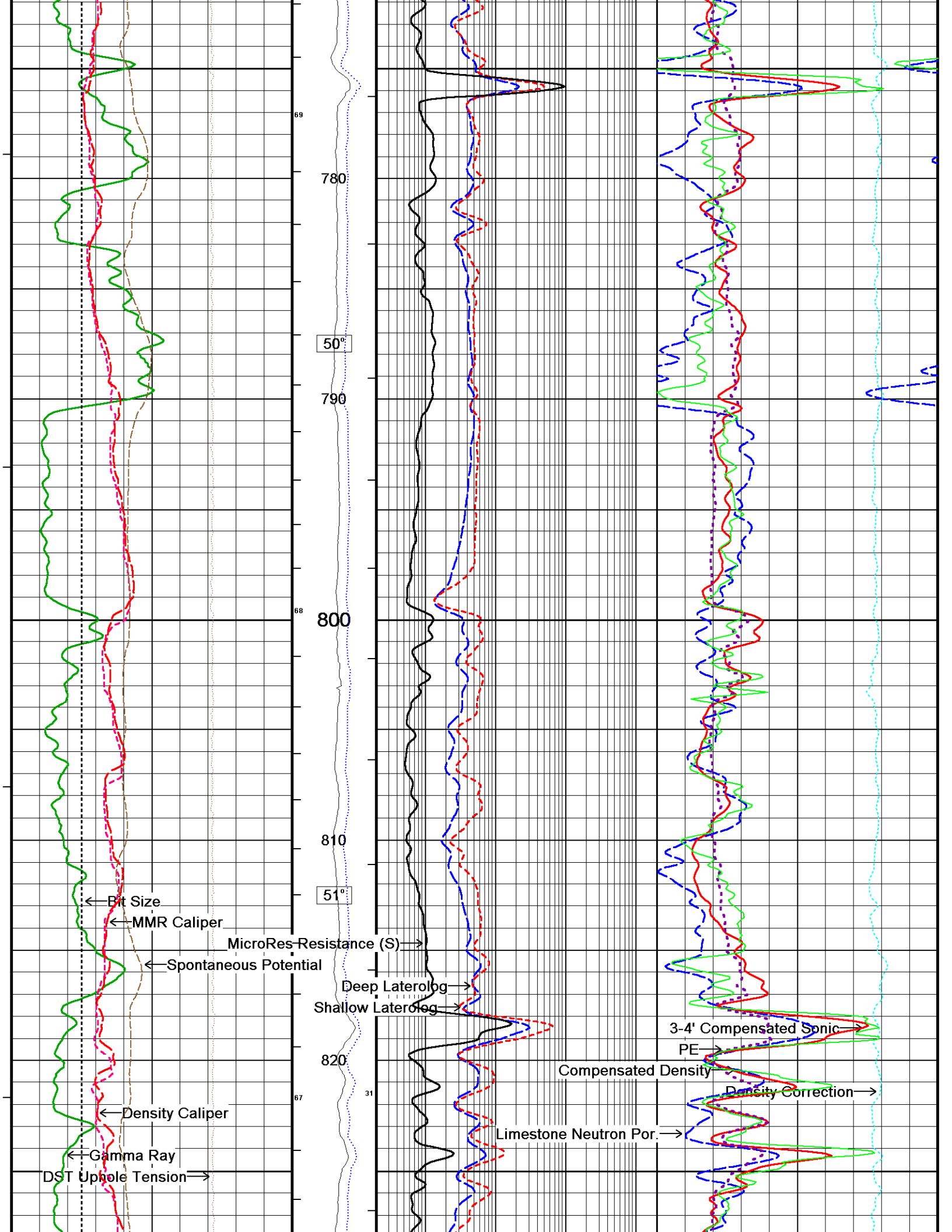

500
510
520
Gamma Ray
530
540

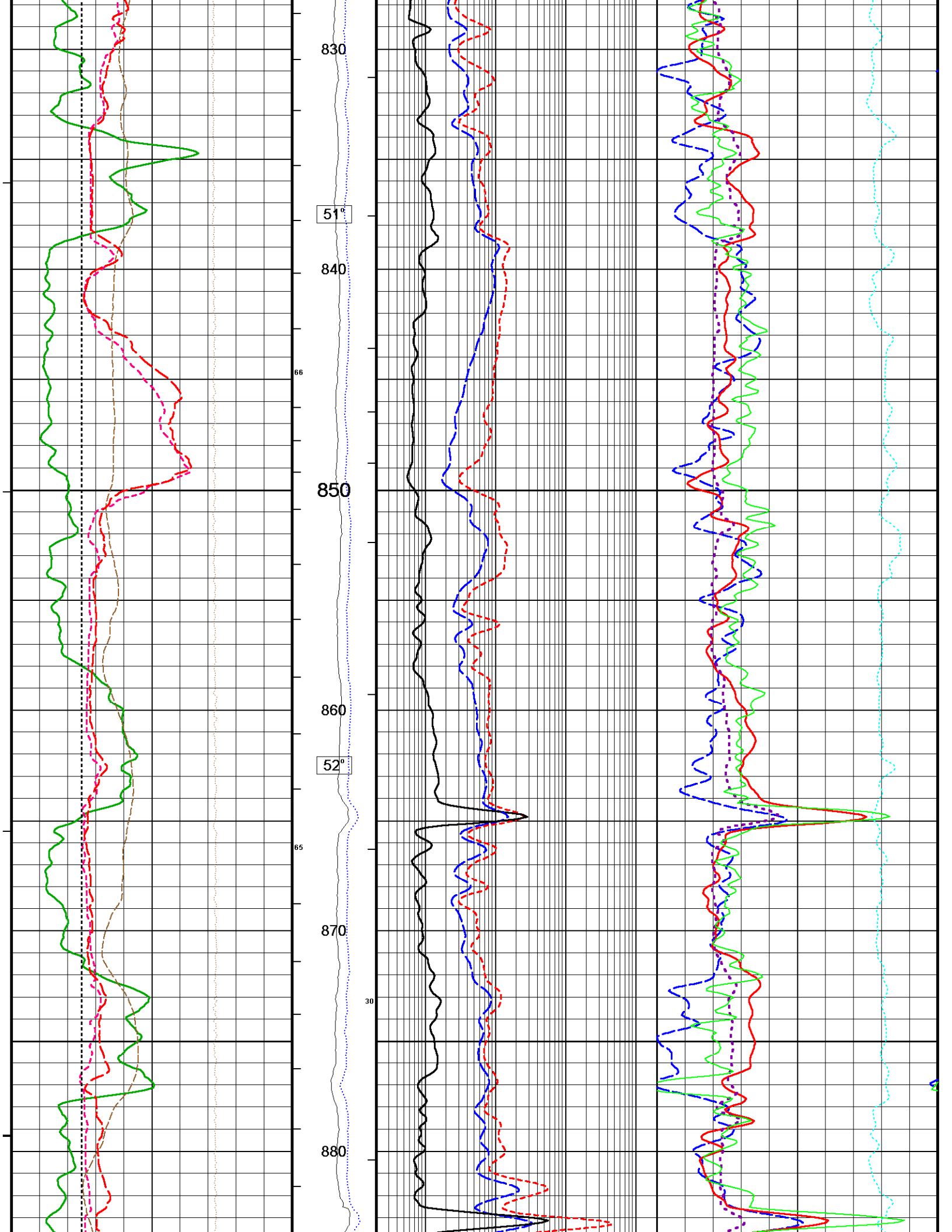

550
560
47°
570
Casing
Shoe
580
48°
590
600

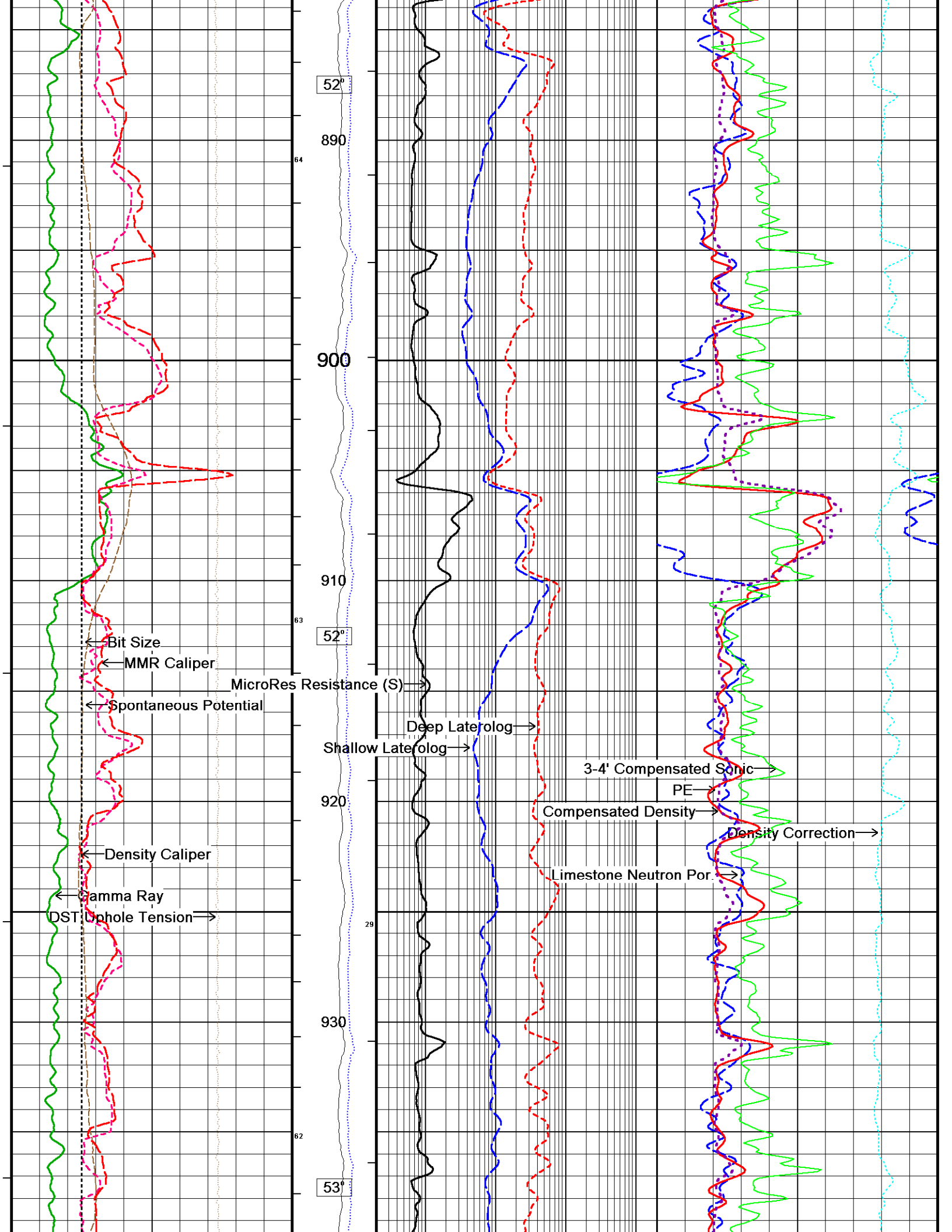

Bit Size
MMR Caliper
Spontaneous Potential
Density Caliper
Gamma Ray
DST Uphole Tension
MicroRes Resistance (S)
Deep Laterolog
Shallow Laterolog
3-4' Compensated Sonic
PE
Compensated Density
Density Correction
Limestone Neutron Por.
610
620
630
640
650
660
48°
49°
78
77
76
75
36
35

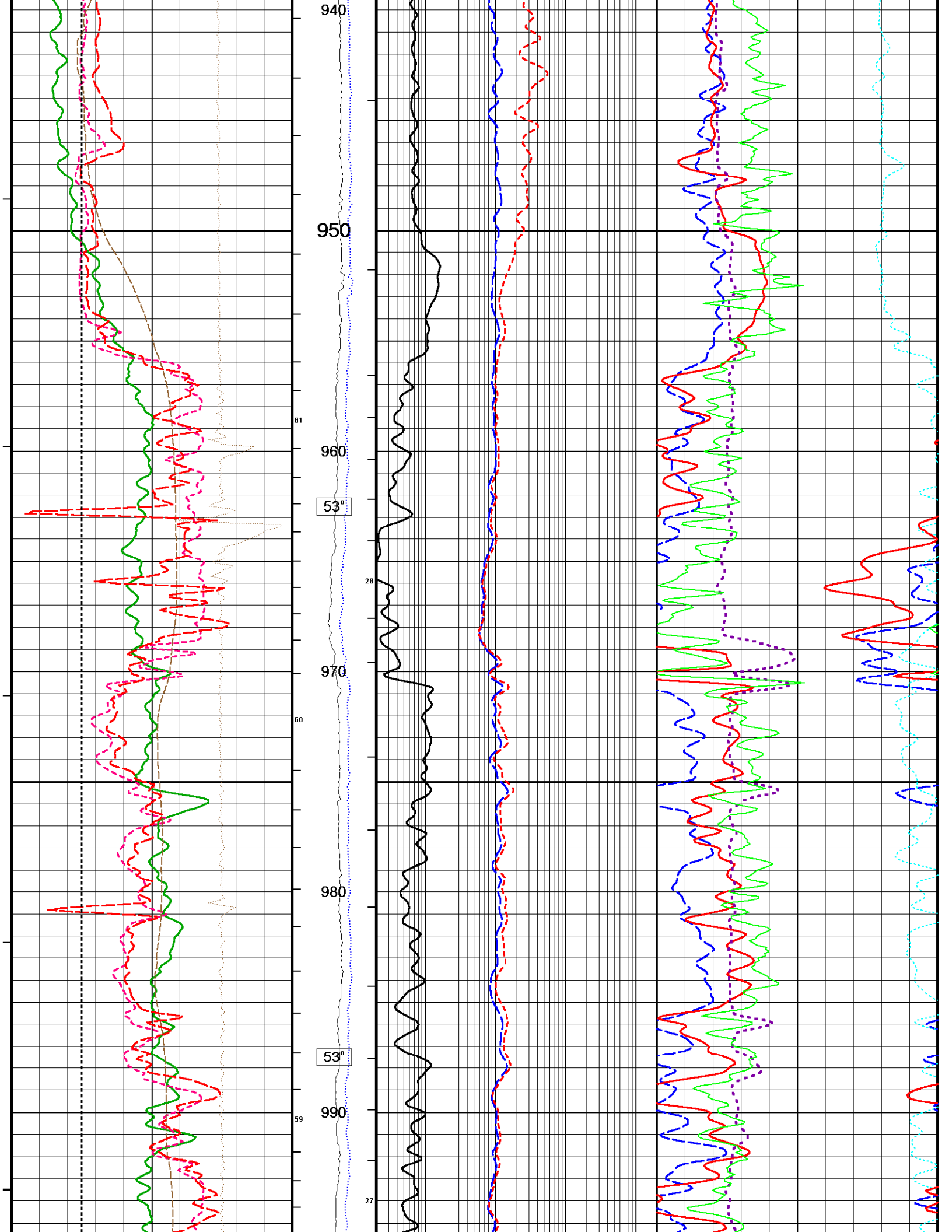

49°
670
680
49°
690
700
710
49°
74
73
34
Bit Size
MMR Caliper
MicroRes Resistance (S)
Spontaneous Potential

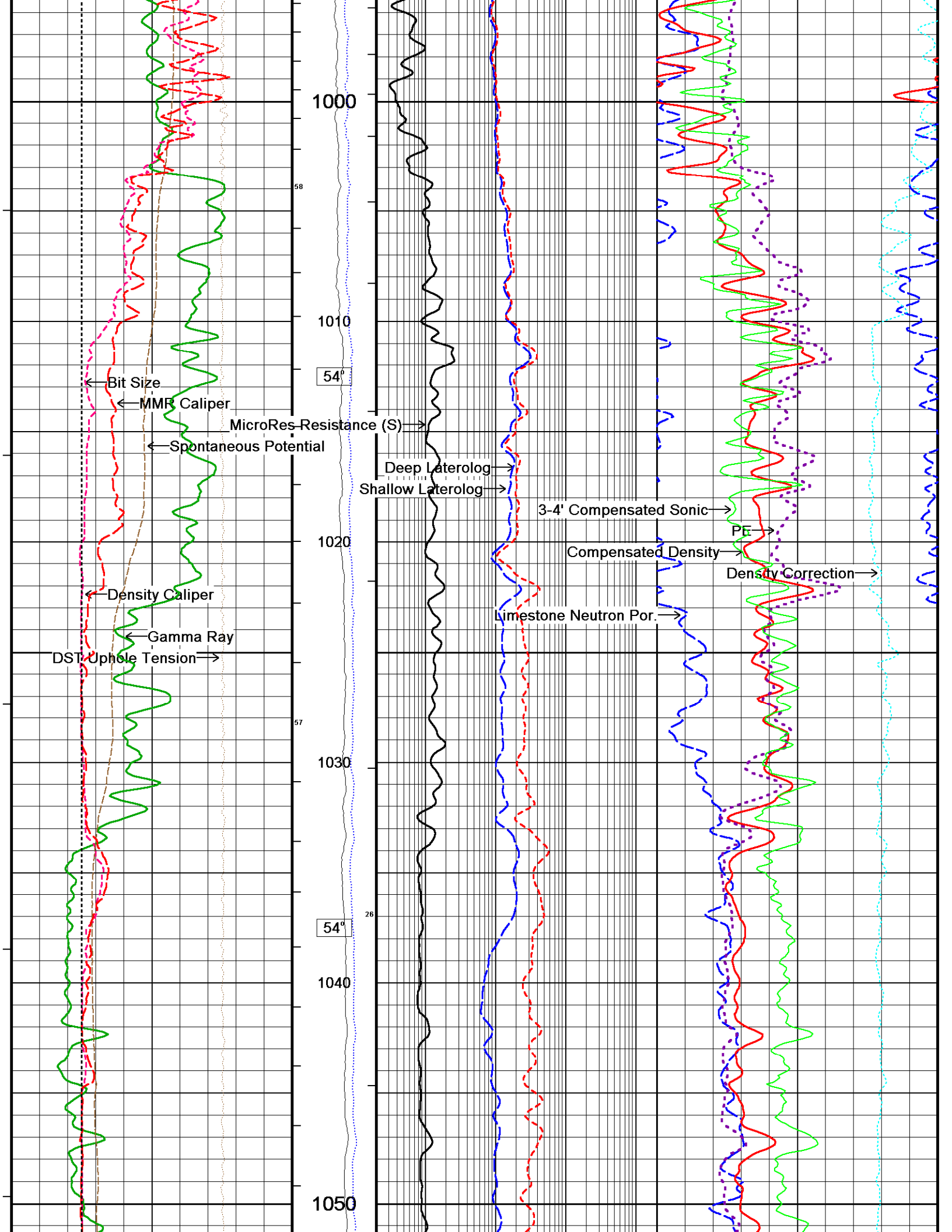

Deep Laterolog
Shallow Laterolog
3-4' Compensated Sonic
PE
Compensated Density
Density Correction
Limestone Neutron Por.
Density Caliper
Gamma Ray
DST Uphole Tension
720
730
740
750
760
770
50°
50°
72
71
70
33
32

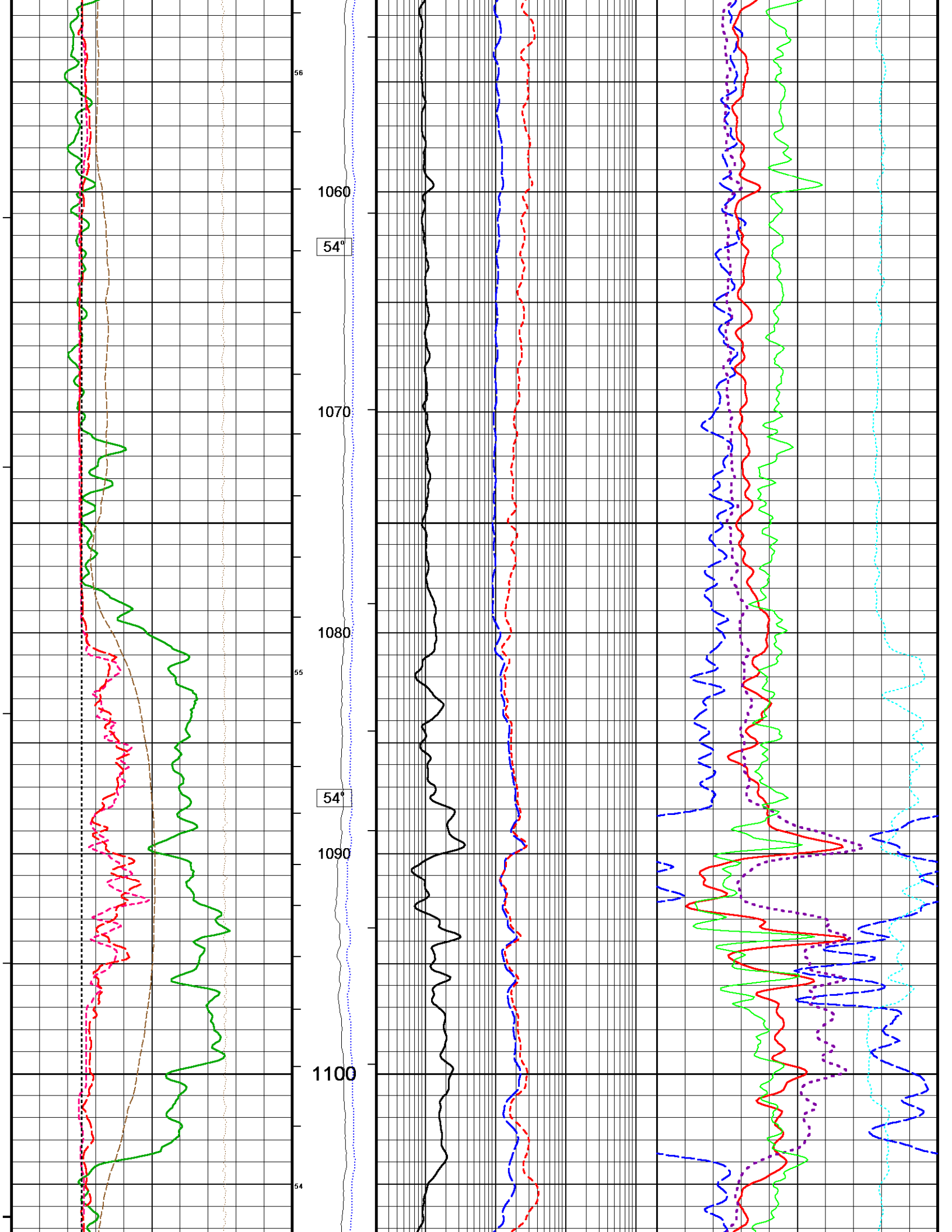

780
50°
790
800
810
51°
820
Bit Size
MMR Caliper
MicroRes Resistance (S)
Spontaneous Potential
Deep Laterolog
Shallow Laterolog
3-4' Compensated Sonic
PE
Compensated Density
Density Correction
Density Caliper
Limestone Neutron Por.
Gamma Ray
DST Uphole Tension

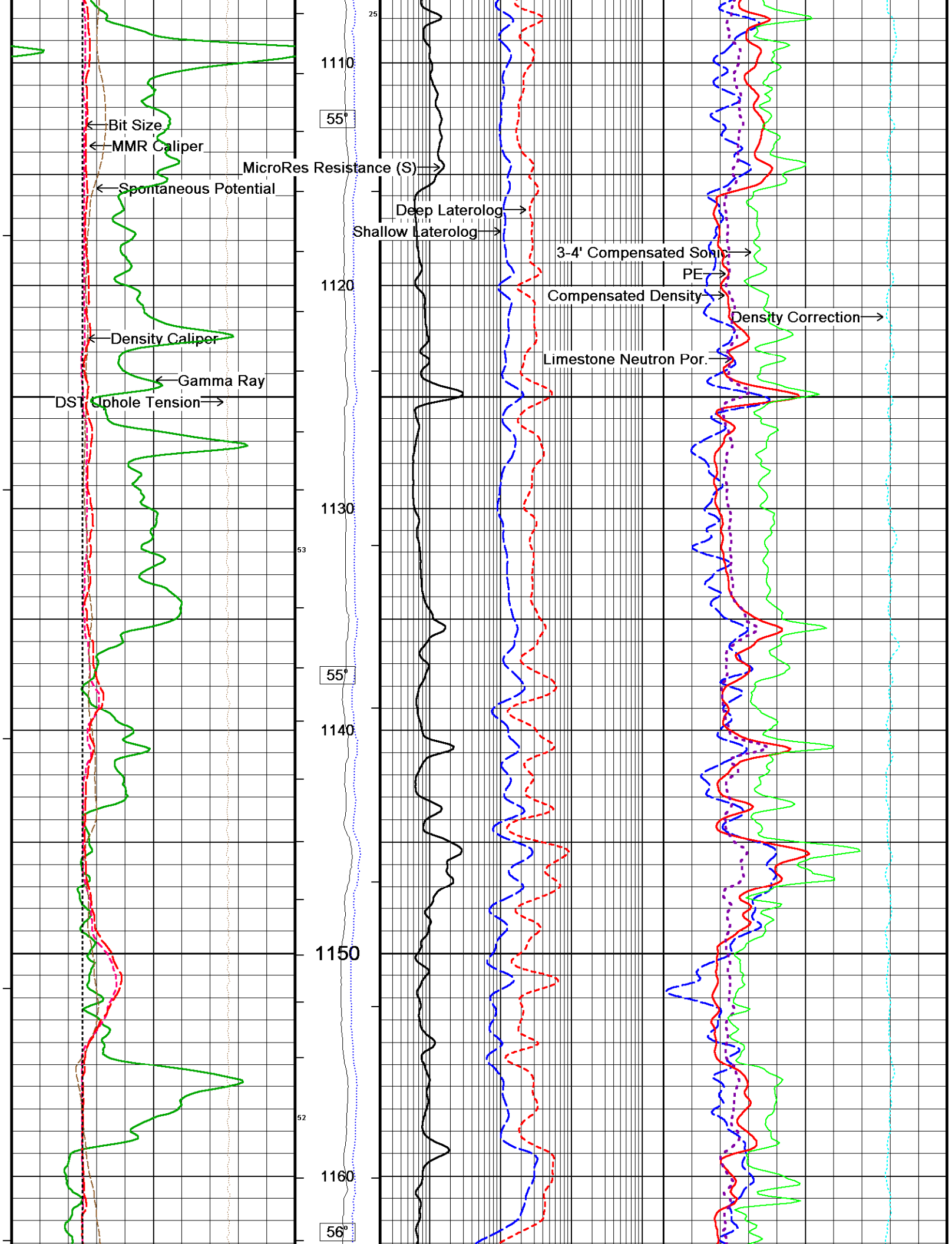

830
51°
840
66
850
860
52°
65
870
30
880

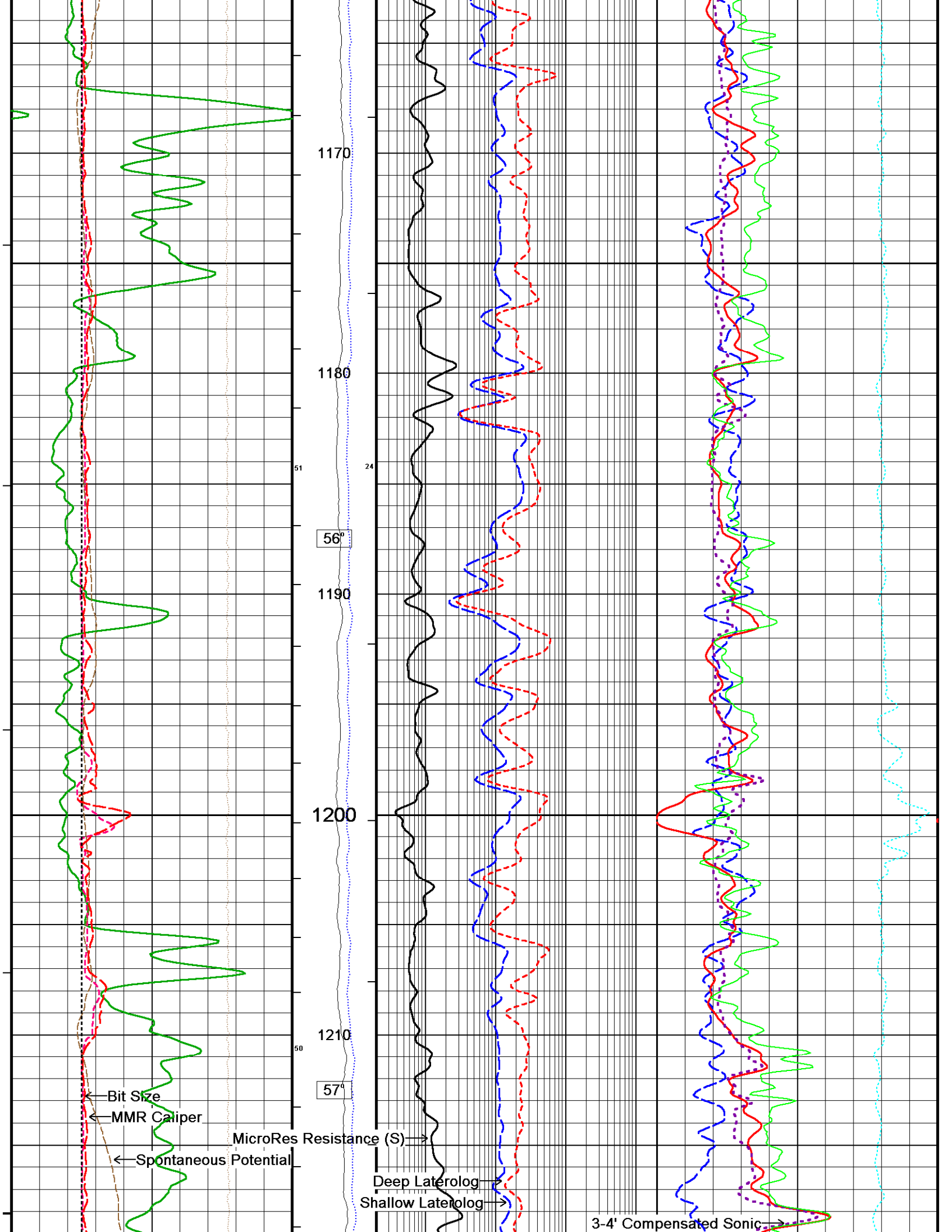

52°
890
900
910
52°
920
930
53°
64
63
62
29
Bit Size
MMR Caliper
Spontaneous Potential
Density Caliper
Gamma Ray
DST Uphole Tension
MicroRes Resistance (S)
Deep Laterolog
Shallow Laterolog
3-4' Compensated Sonic
PE
Compensated Density
Density Correction
Limestone Neutron Por

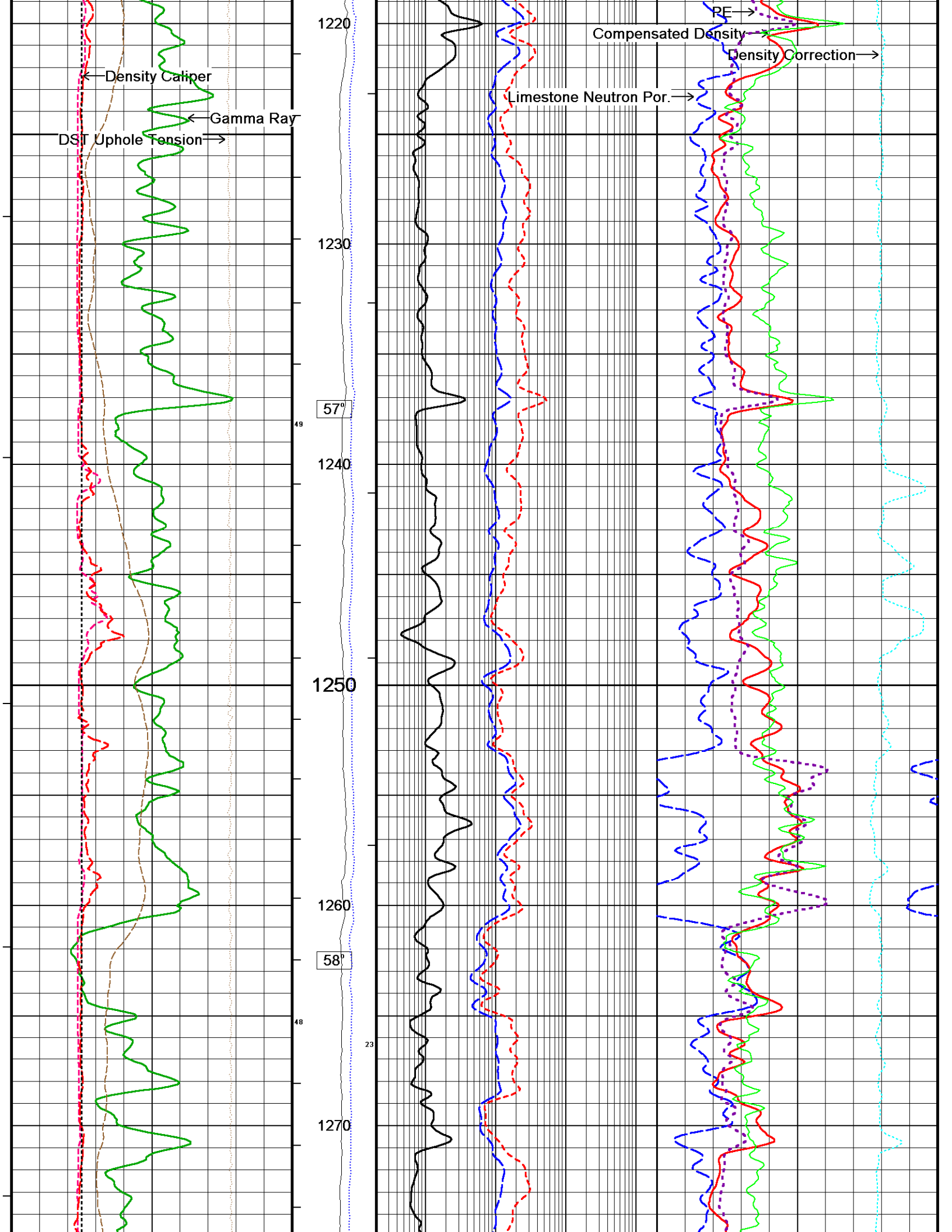

940
950
960
53°
970
980
53°
990
61
60
59
28
27

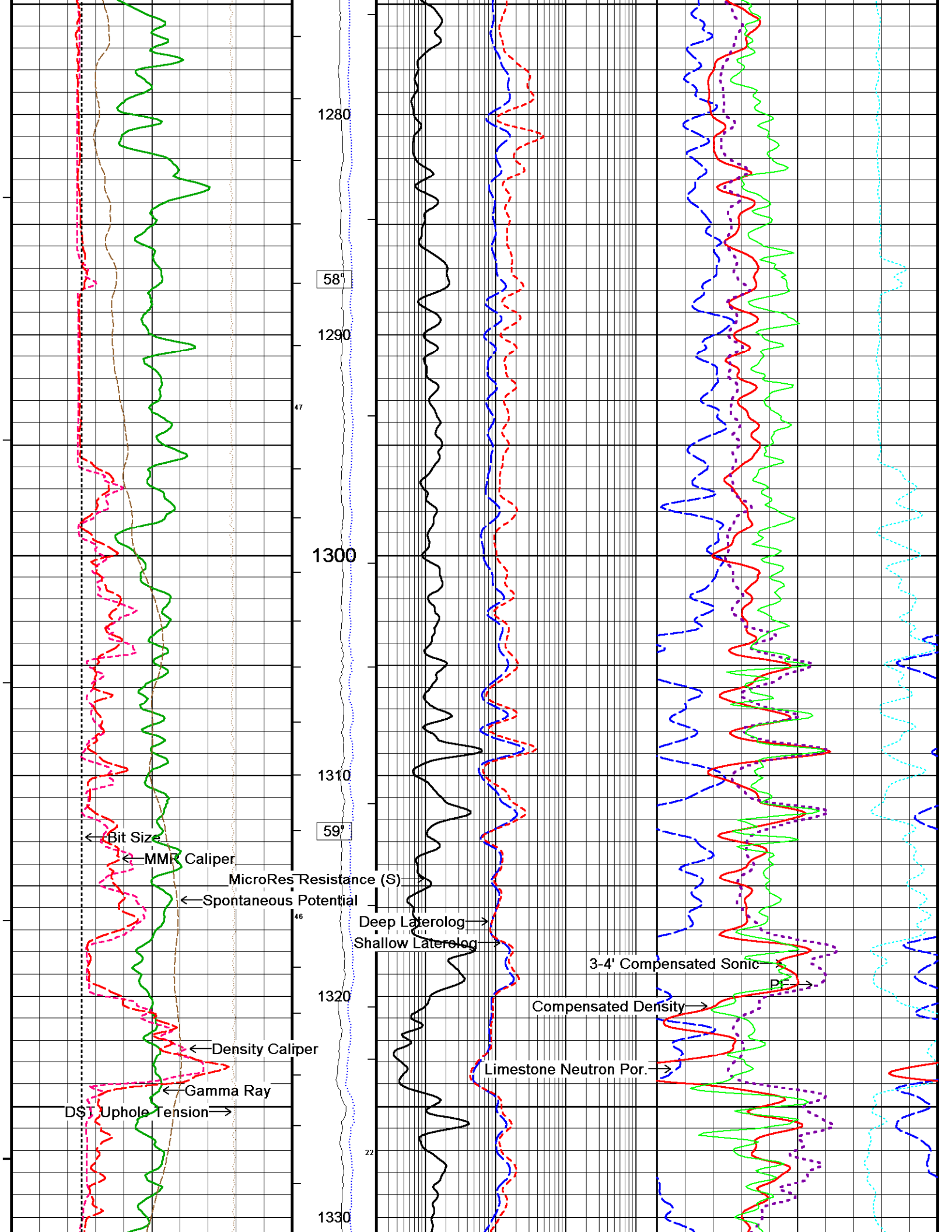

1000
1010
1020
1030
1040
1050
58
57
26
54°
54°
Bit Size
MMR Caliper
MicroRes Resistance (S)
Spontaneous Potential
Deep Laterolog
Shallow Laterolog
3-4' Compensated Sonic
PE
Compensated Density
Density Correction
Density Caliper
Limestone Neutron Por.
Gamma Ray
DST Uphole Tension

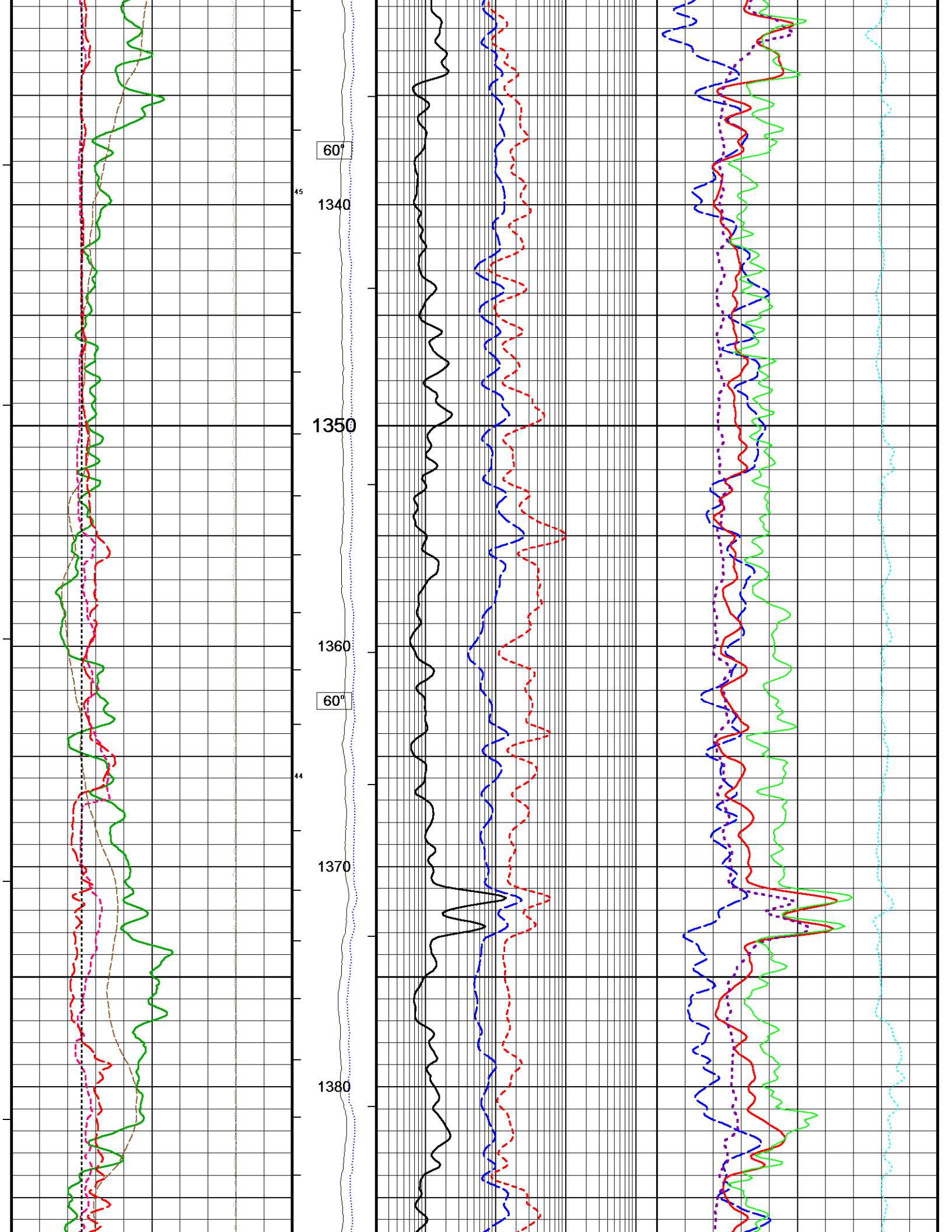

56
55
54
1060
54°
1070
1080
54°
1090
1100

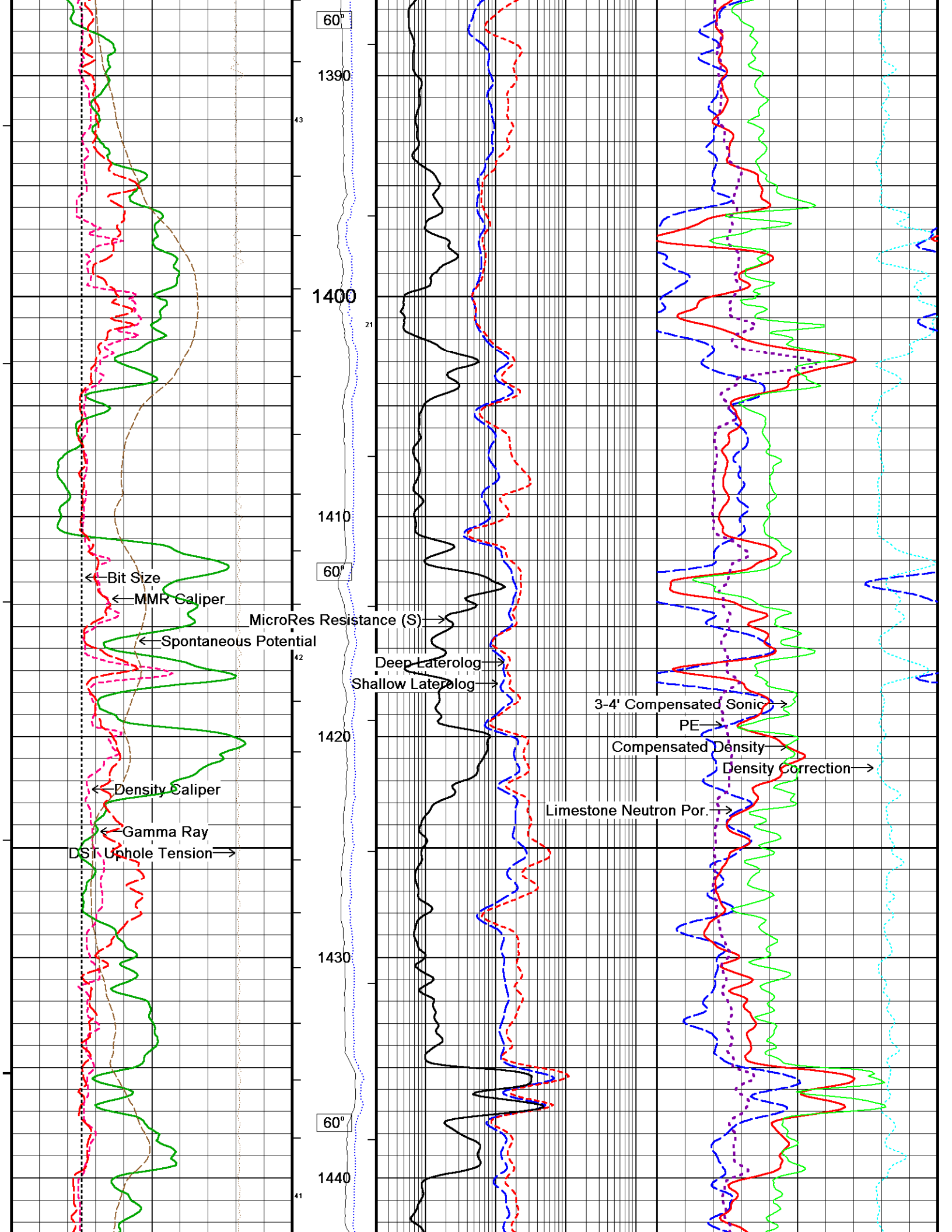

Bit Size
MMR Caliper
Spontaneous Potential
Density Caliper
Gamma Ray
DST Uphole Tension
MicroRes Resistance (S)
Deep Laterolog
Shallow Laterolog
3-4' Compensated Sonic
PE
Compensated Density
Density Correction
Limestone Neutron Por.
1110
1120
1130
1140
1150
1160
55°
55°
56°
25
53
52

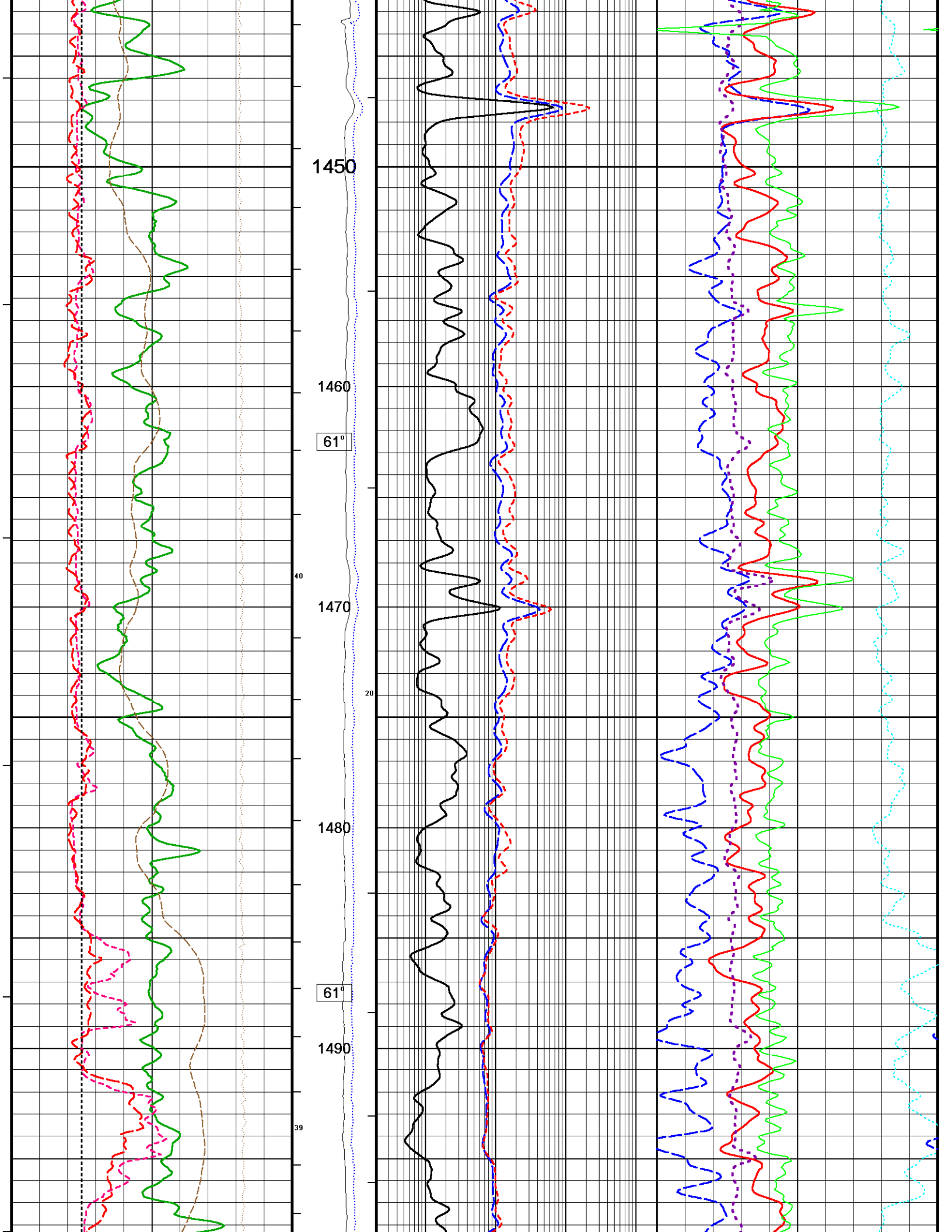

1170
1180
1190
1200
1210
56°
57°
51
50
24
←Bit Size
←MMR Caliper
←Spontaneous Potential
MicroRes Resistance (S)→
Deep Laterolog→
Shallow Laterolog→
3-4' Compensated Sonic→

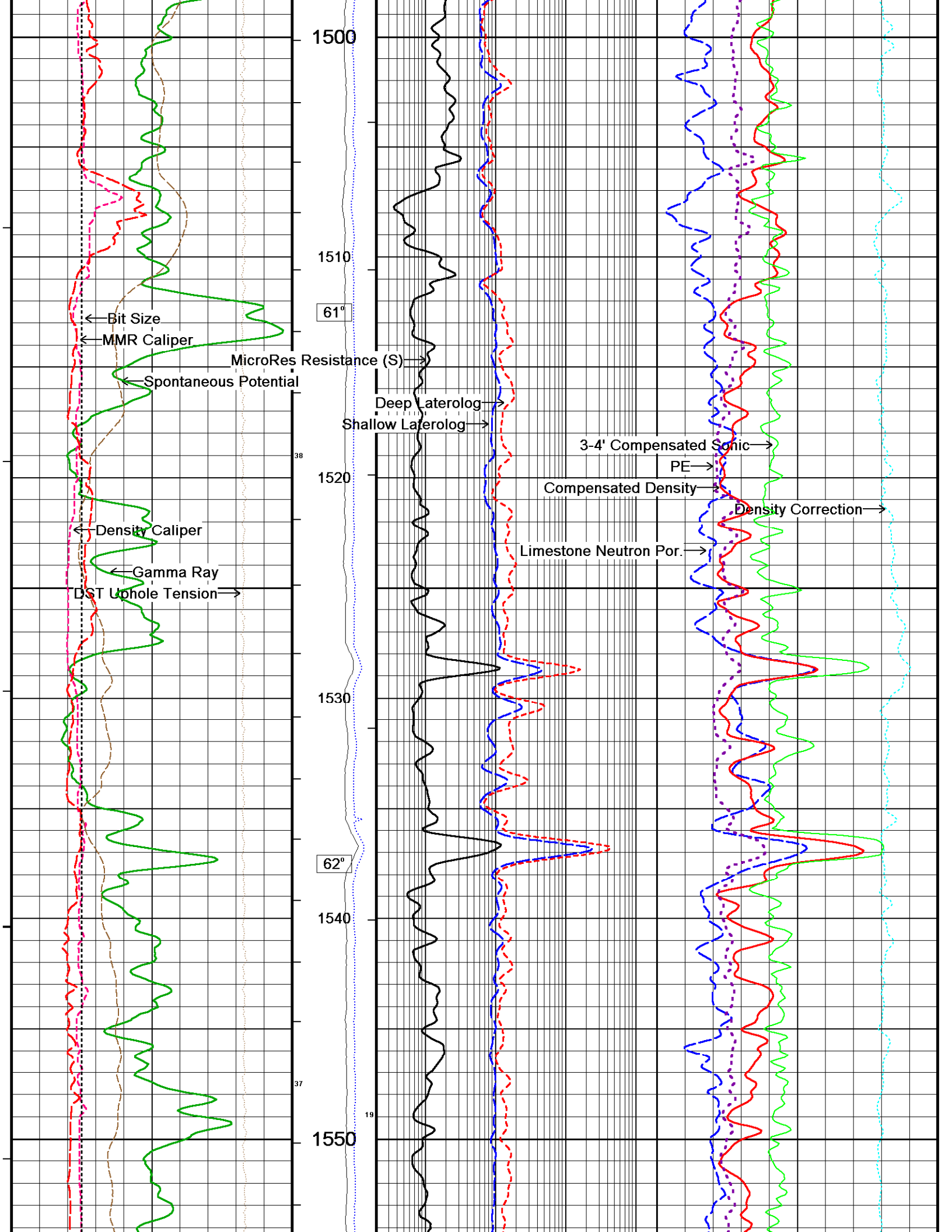

Density Caliper
Gamma Ray
DST Uphole Tension
1220
1230
57°
1240
1250
1260
58°
1270
Limestone Neutron Por.
PE
Compensated Density
Density Correction

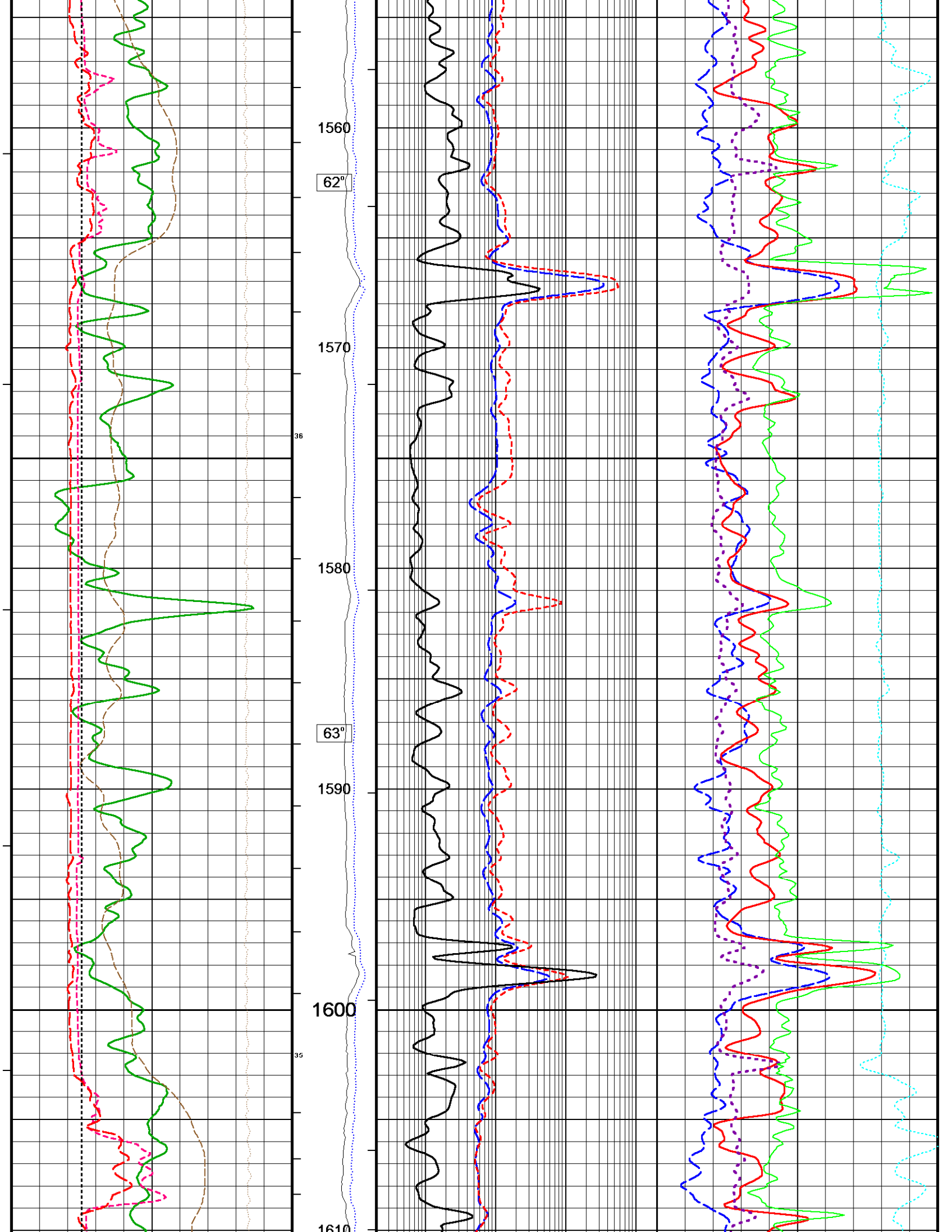

1280
58'
1290
47
1300
1310
59'
46
1320
22
1330
Bit Size
MMR Caliper
MicroRes Resistance (S)
Spontaneous Potential
Deep Laterolog
Shallow Laterolog
3-4' Compensated Sonic
PE
Compensated Density
Density Caliper
Limestone Neutron Por.
Gamma Ray
DST Uphole Tension

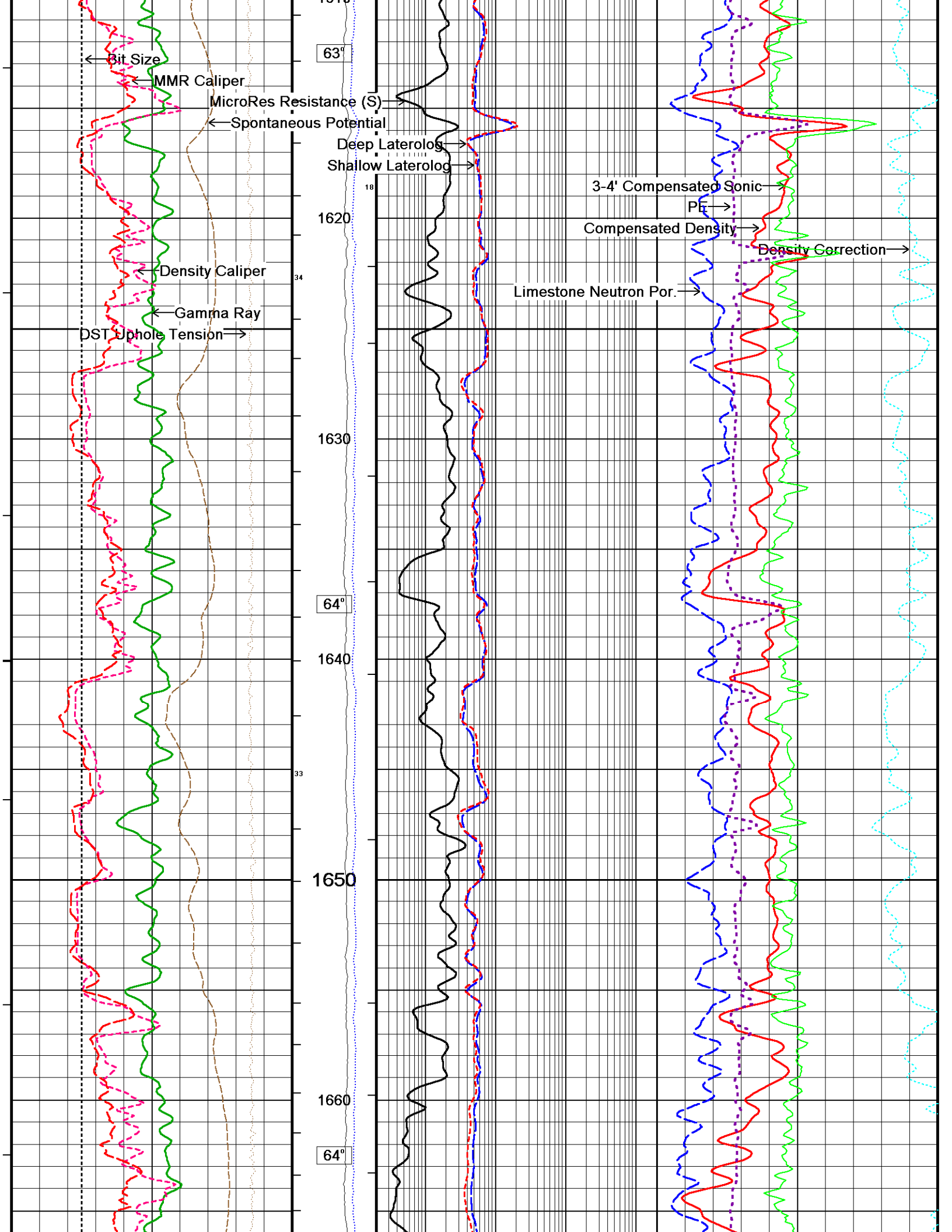

60°
1340
1350
1360
60°
1370
1380

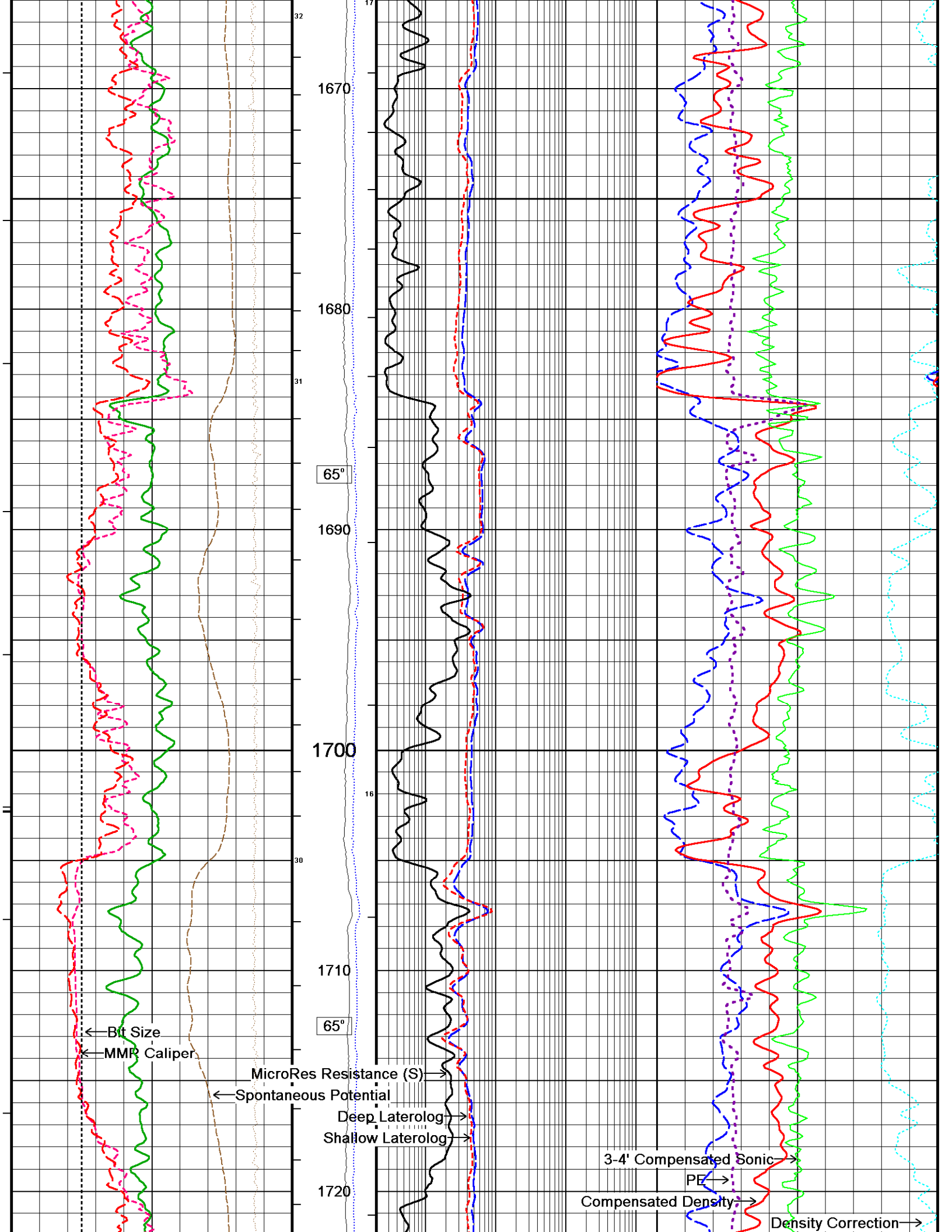

60°
1390
1400
1410
60°
1420
1430
60°
1440
Bit Size
MMR Caliper
Spontaneous Potential
Density Caliper
Gamma Ray
DST Uphole Tension
MicroRes Resistance (S)
Deep Laterolog
Shallow Laterolog
3-4' Compensated Sonic
PE
Compensated Density
Density Correction
Limestone Neutron Por.

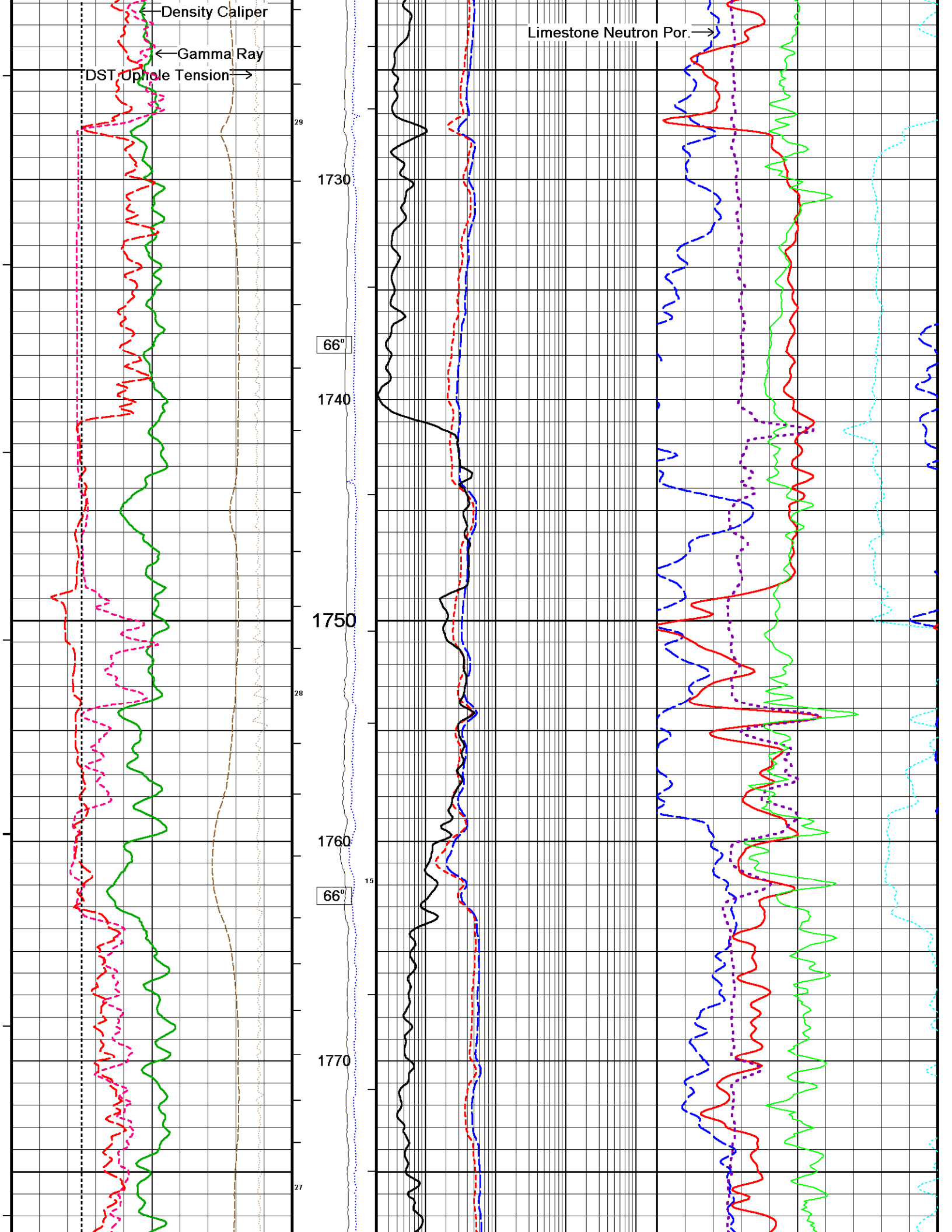

1450
1460
61°
40
1470
20
1480
61°
1490
39

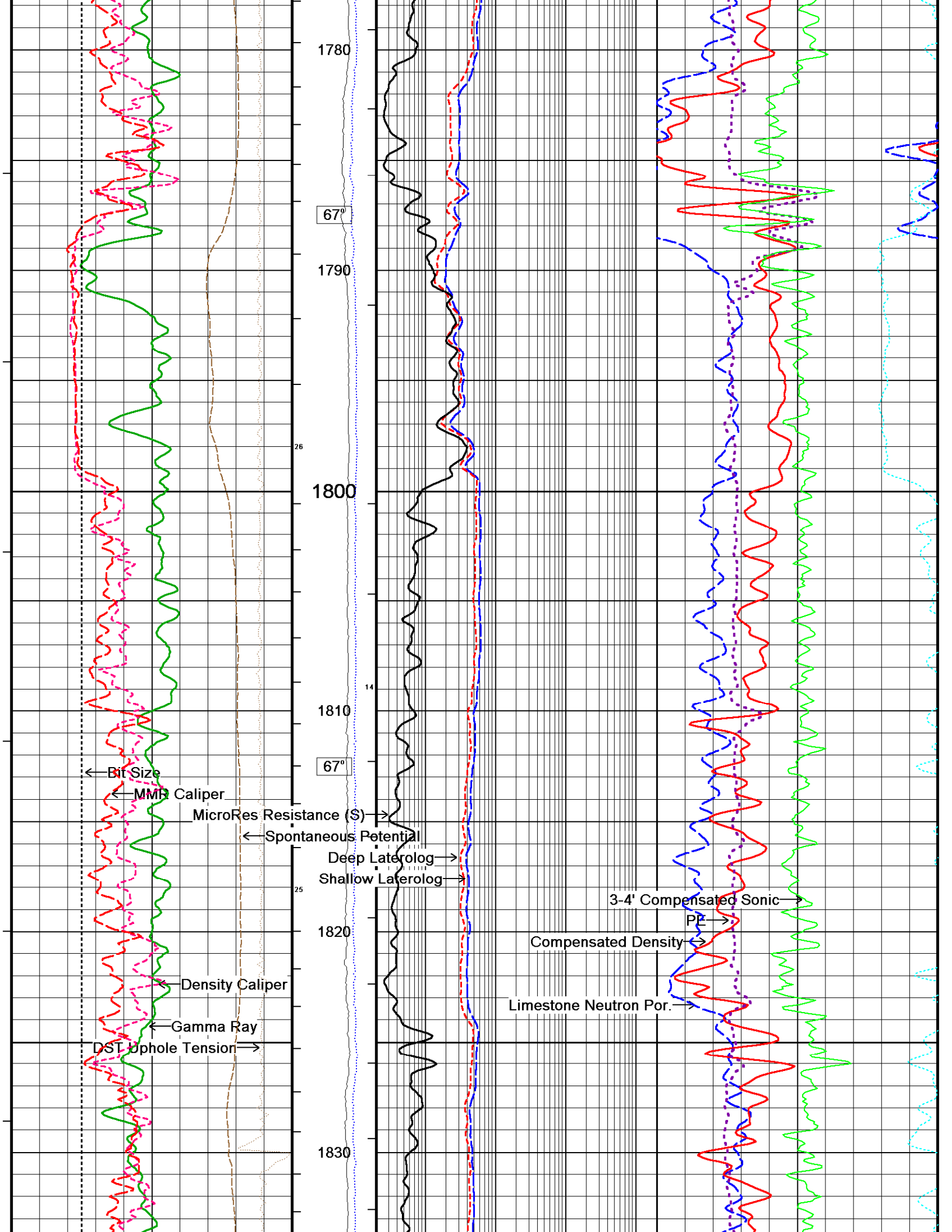

1500
1510
1520
1530
1540
1550
61°
62°
Bit Size
MMR Caliper
Spontaneous Potential
Density Caliper
Gamma Ray
DST Uphole Tension
MicroRes Resistance (S)
Deep Laterolog
Shallow Laterolog
3-4' Compensated Sonic
PE
Compensated Density
Density Correction
Limestone Neutron Por.
38
37
19

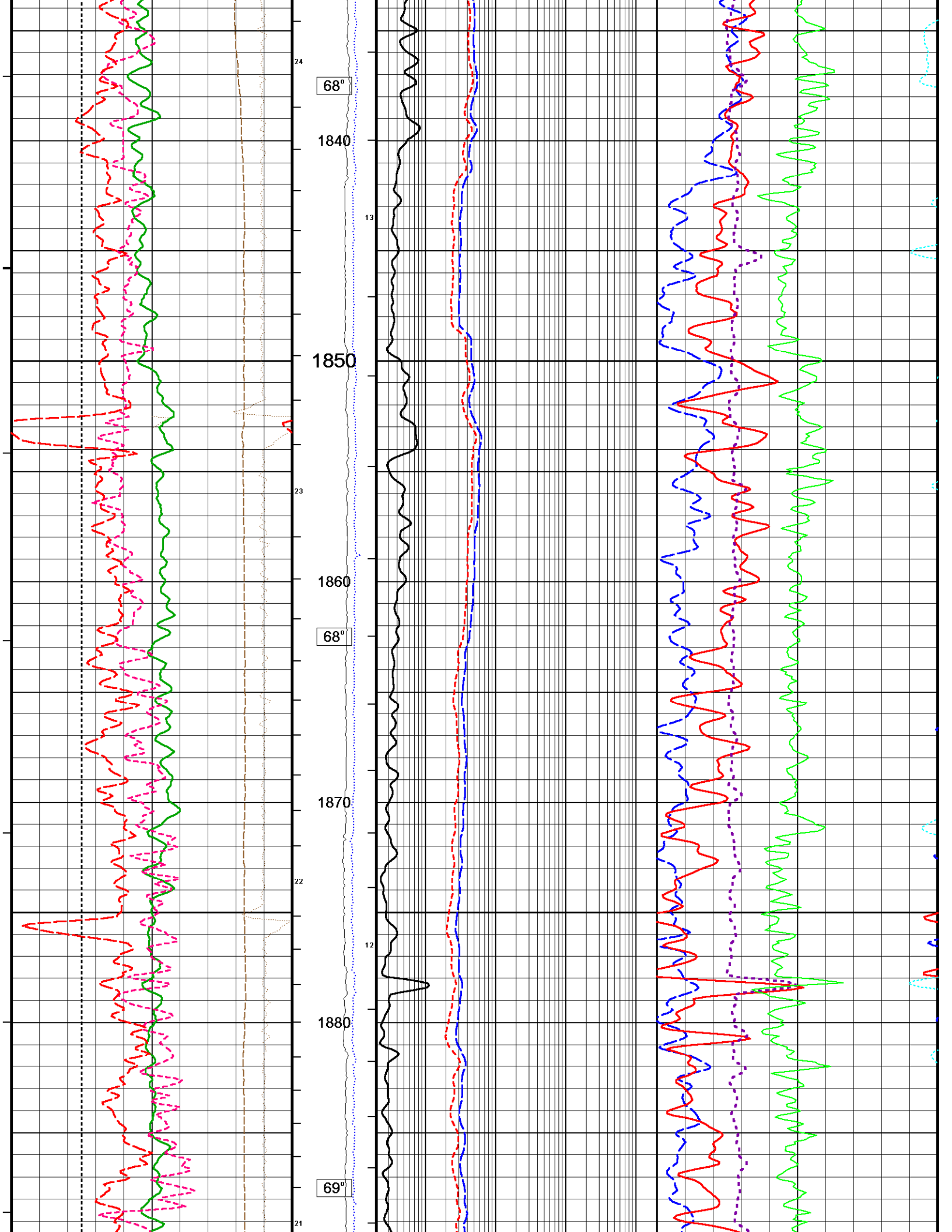

1560
62°
1570
1580
63°
1590
1600
1610

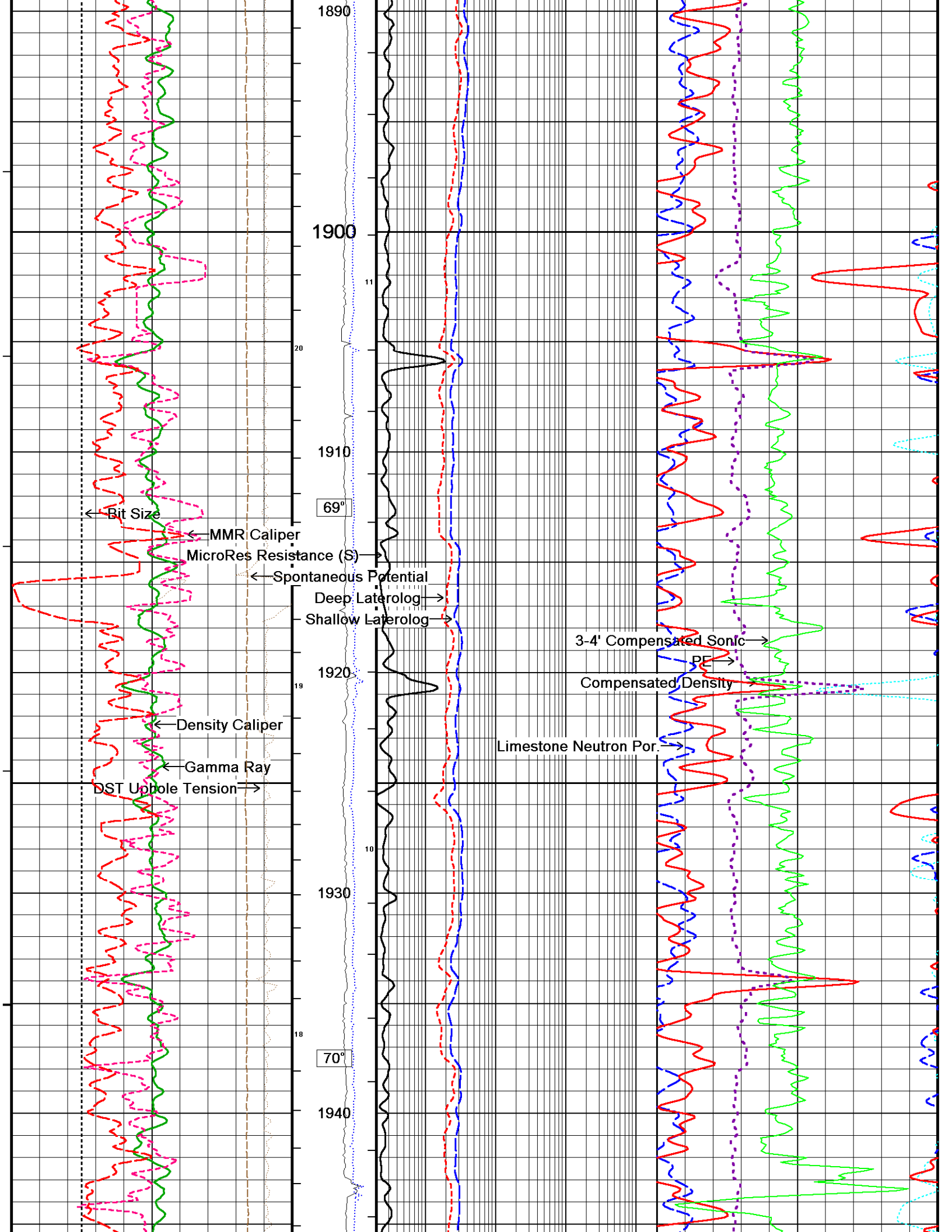

Bit Size
MMR Caliper
MicroRes Resistance (S)
Spontaneous Potential
Deep Laterolog
Shallow Laterolog
3-4' Compensated Sonic
PE
Compensated Density
Density Correction
Density Caliper
Limestone Neutron Por.
Gamma Ray
DST Uphole Tension
63°
64°
64°
1620
1630
1640
1650
1660
18
34
33

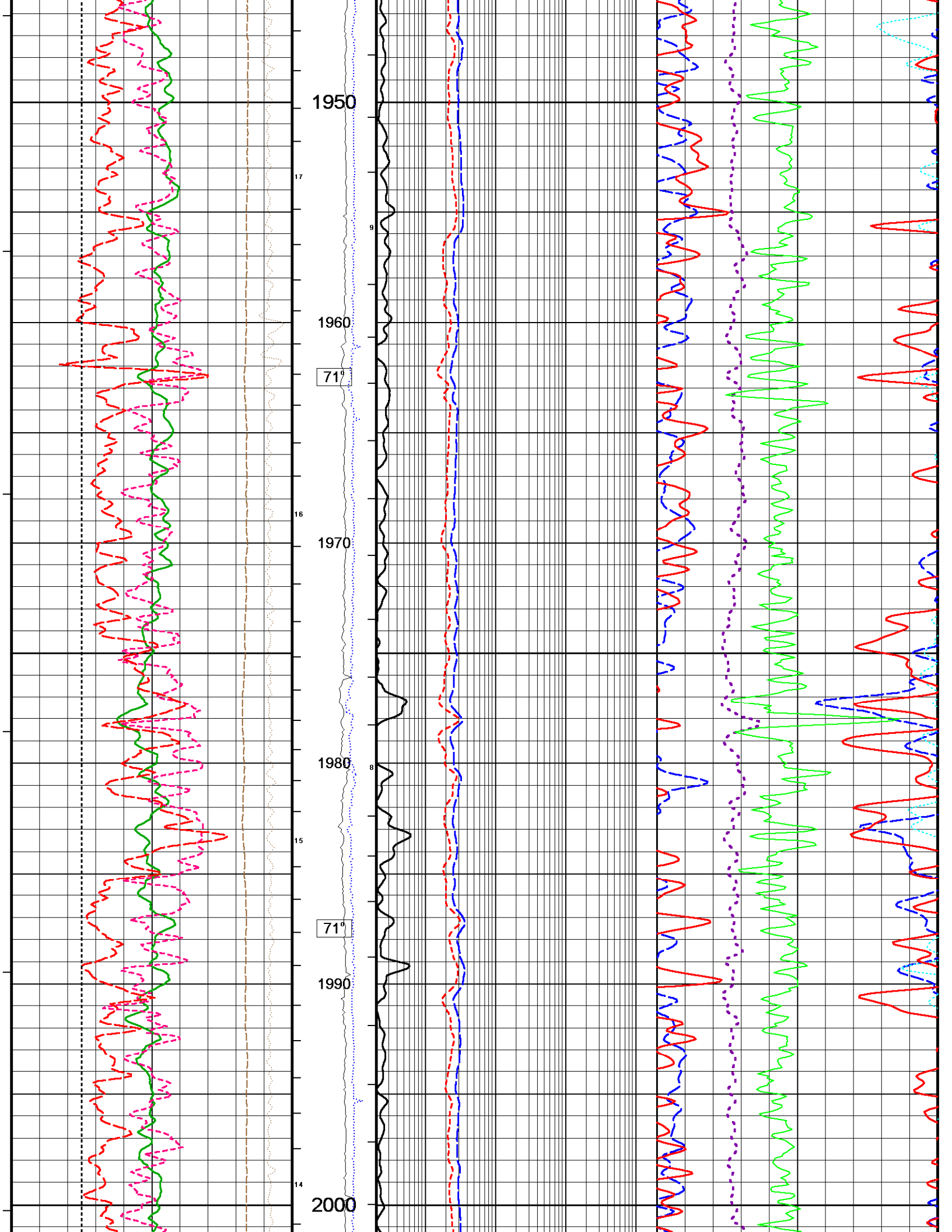

32
31
30
17
16
1670
1680
1690
1700
1710
1720
65°
65°
←Bit Size
←MMR Caliper
MicroRes Resistance (S)→
←Spontaneous Potential
Deep Laterolog→
Shallow Laterolog→
3-4' Compensated Sonic→
PE→
Compensated Density→
Density Correction→

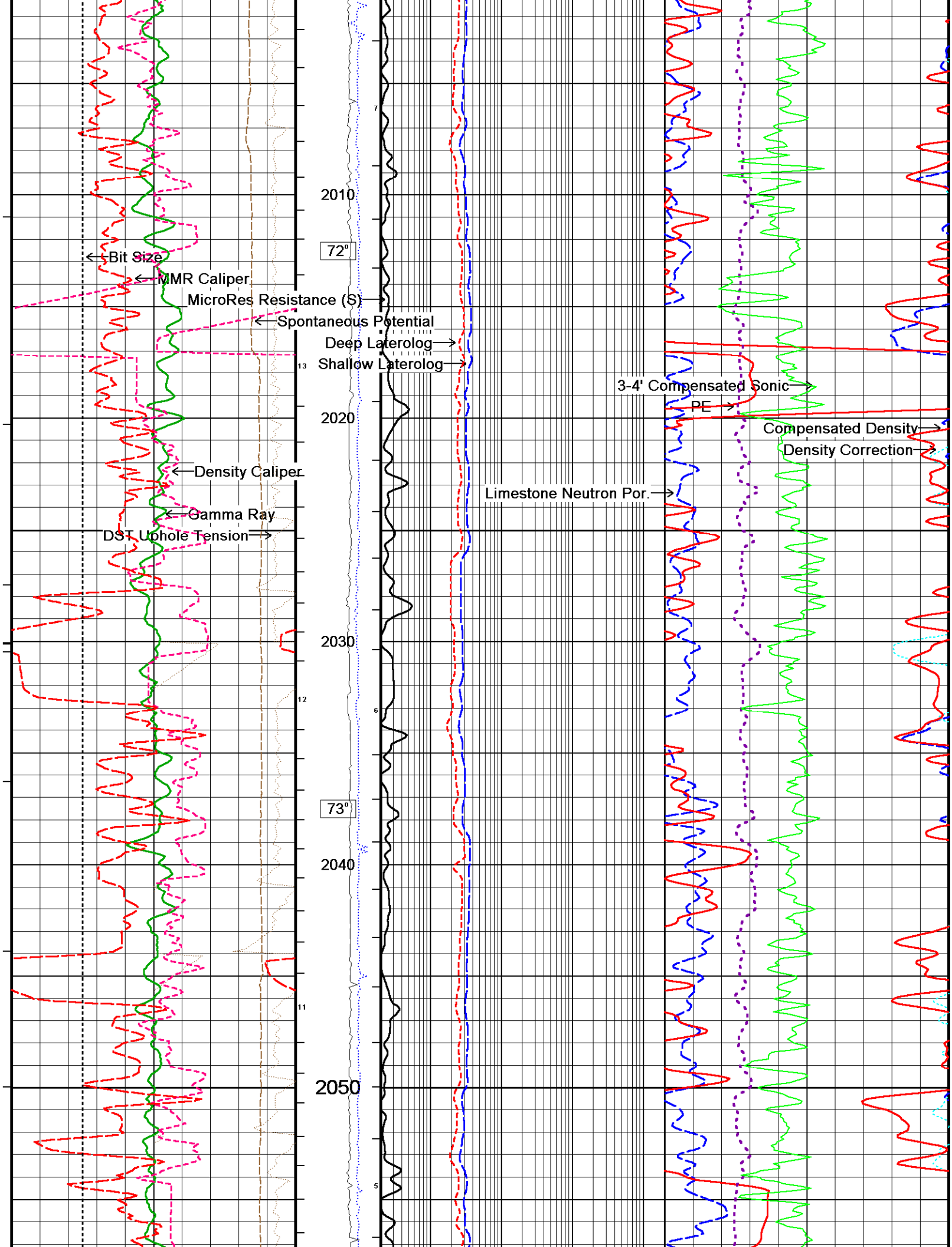

Density Caliper
Gamma Ray
DST Uphole Tension
Limestone Neutron Por.
1730
66°
1740
1750
1760
66°
1770
29
28
27
15

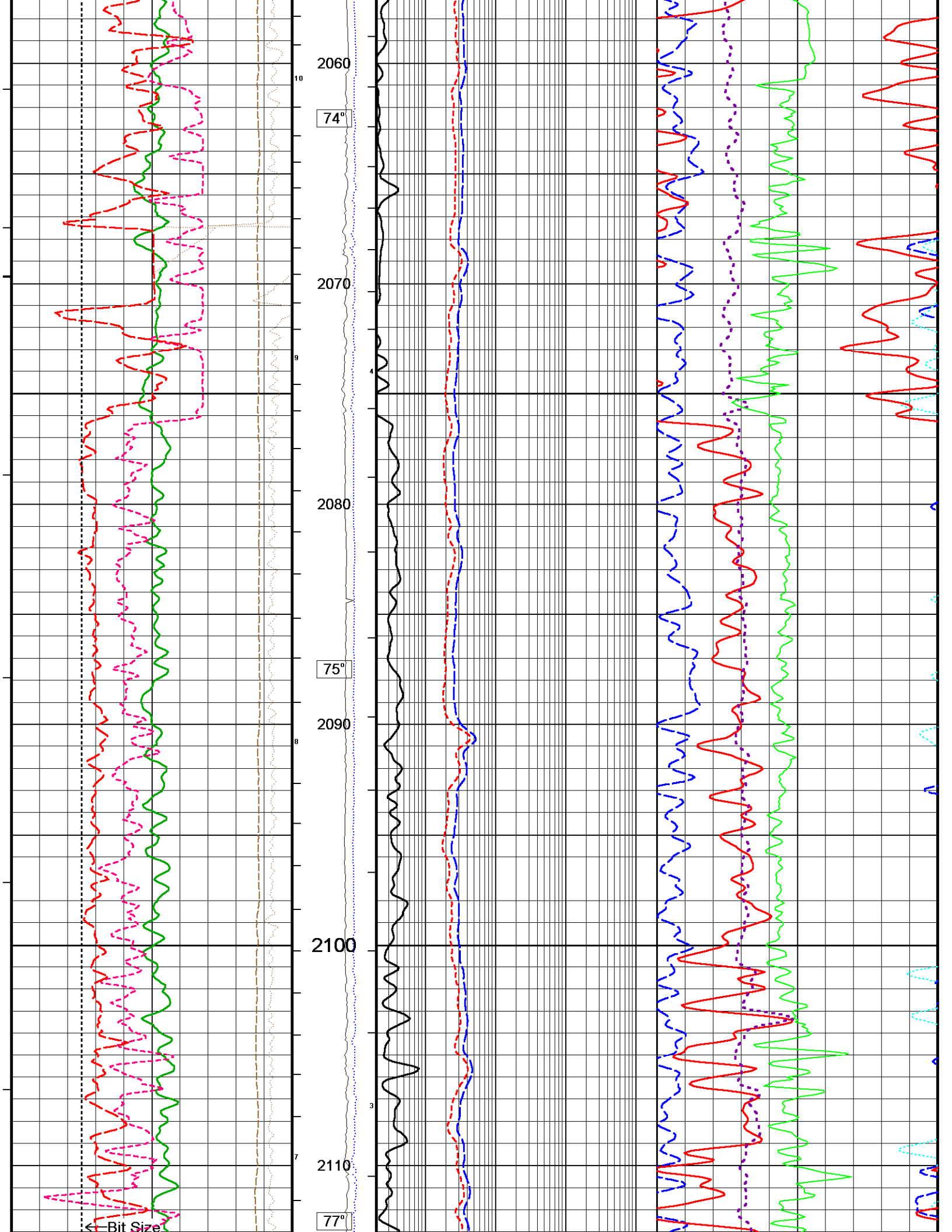

1780
67°
1790
26
1800
14
1810
67°
Bit Size
MMR Caliper
MicroRes Resistance (S)
Spontaneous Potential
Deep Laterolog
Shallow Laterolog
25
1820
3-4' Compensated Sonic
PE
Compensated Density
Density Caliper
Limestone Neutron Por.
Gamma Ray
DST Uphole Tension
1830

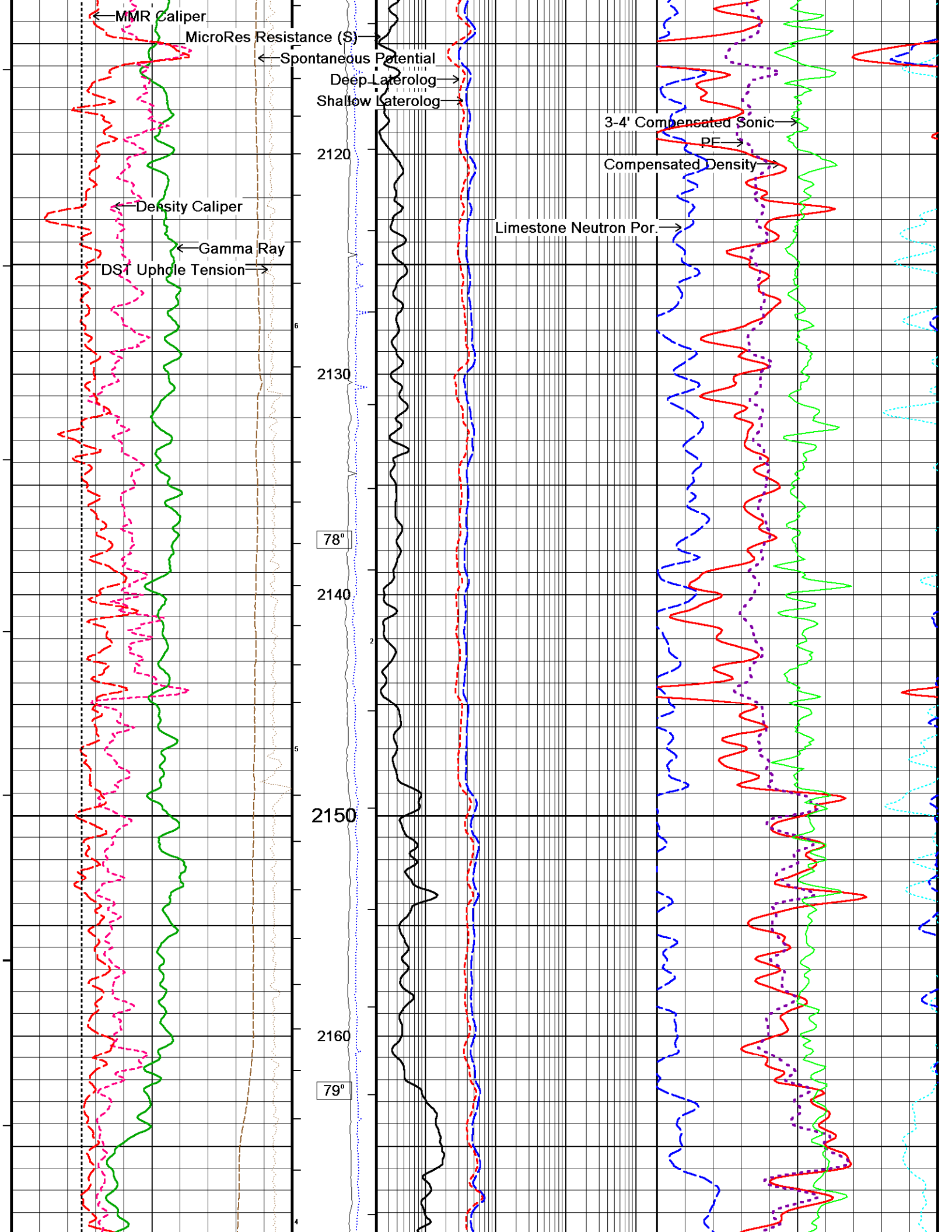

68°
1840
1850
1860
68°
1870
1880
69°

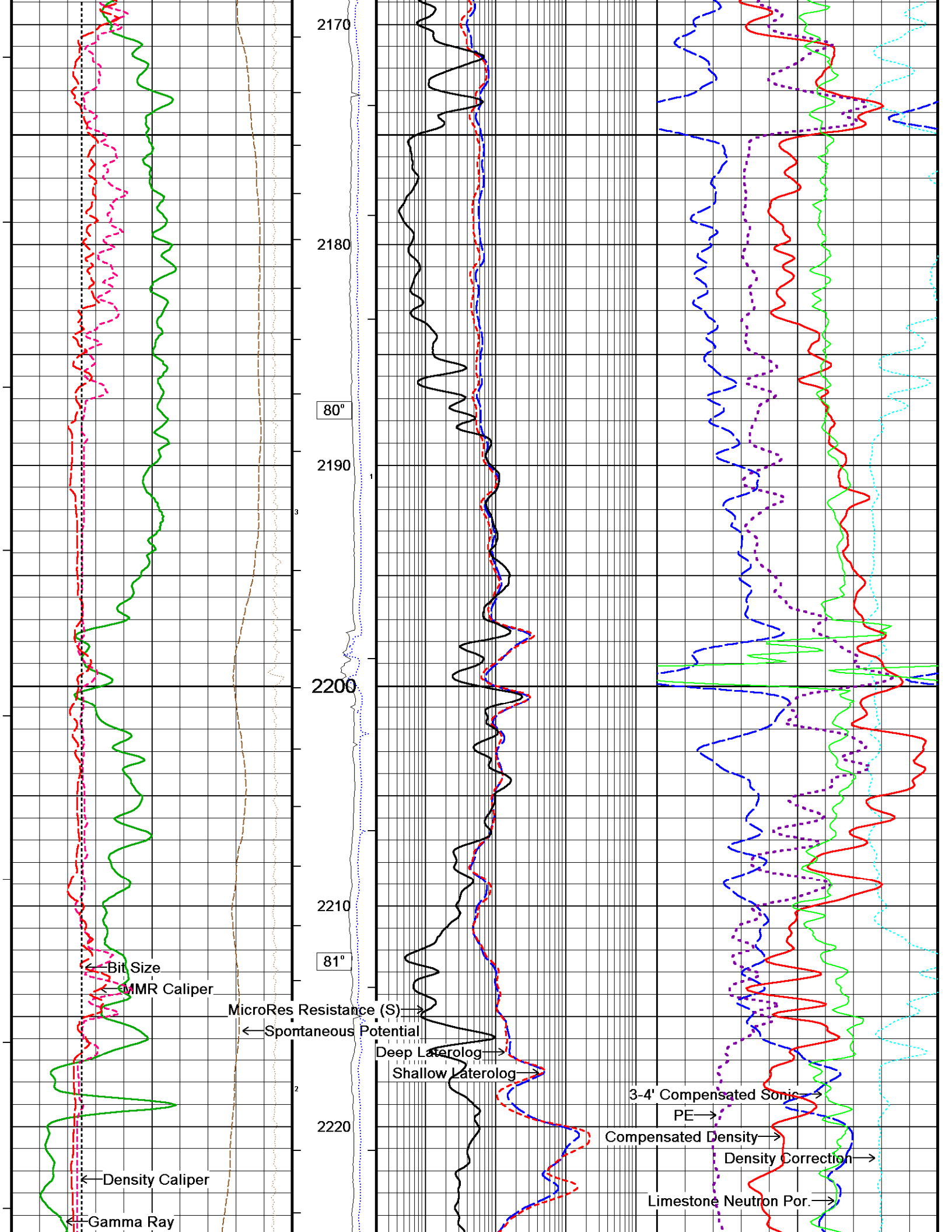

1890
1900
1910
1920
1930
1940
69°
70°
Bit Size
MMR Caliper
MicroRes Resistance (S)
Spontaneous Potential
Deep Laterolog
Shallow Laterolog
Density Caliper
Gamma Ray
DST Uphole Tension
3-4' Compensated Sonic
PE
Compensated Density
Limestone Neutron Por.

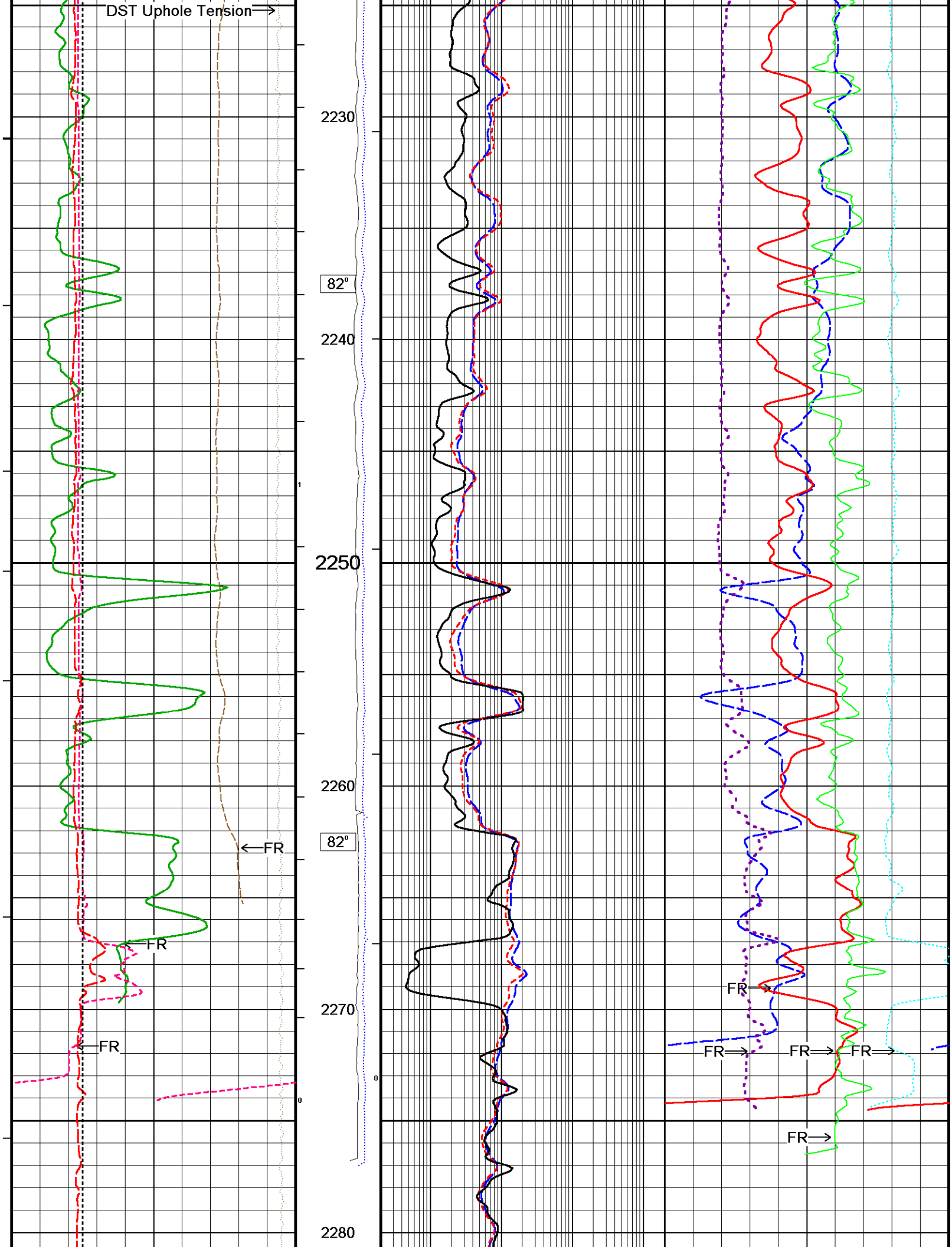

1950
1960
71°
1970
1980
71°
1990
2000
17
9
16
8
15
14

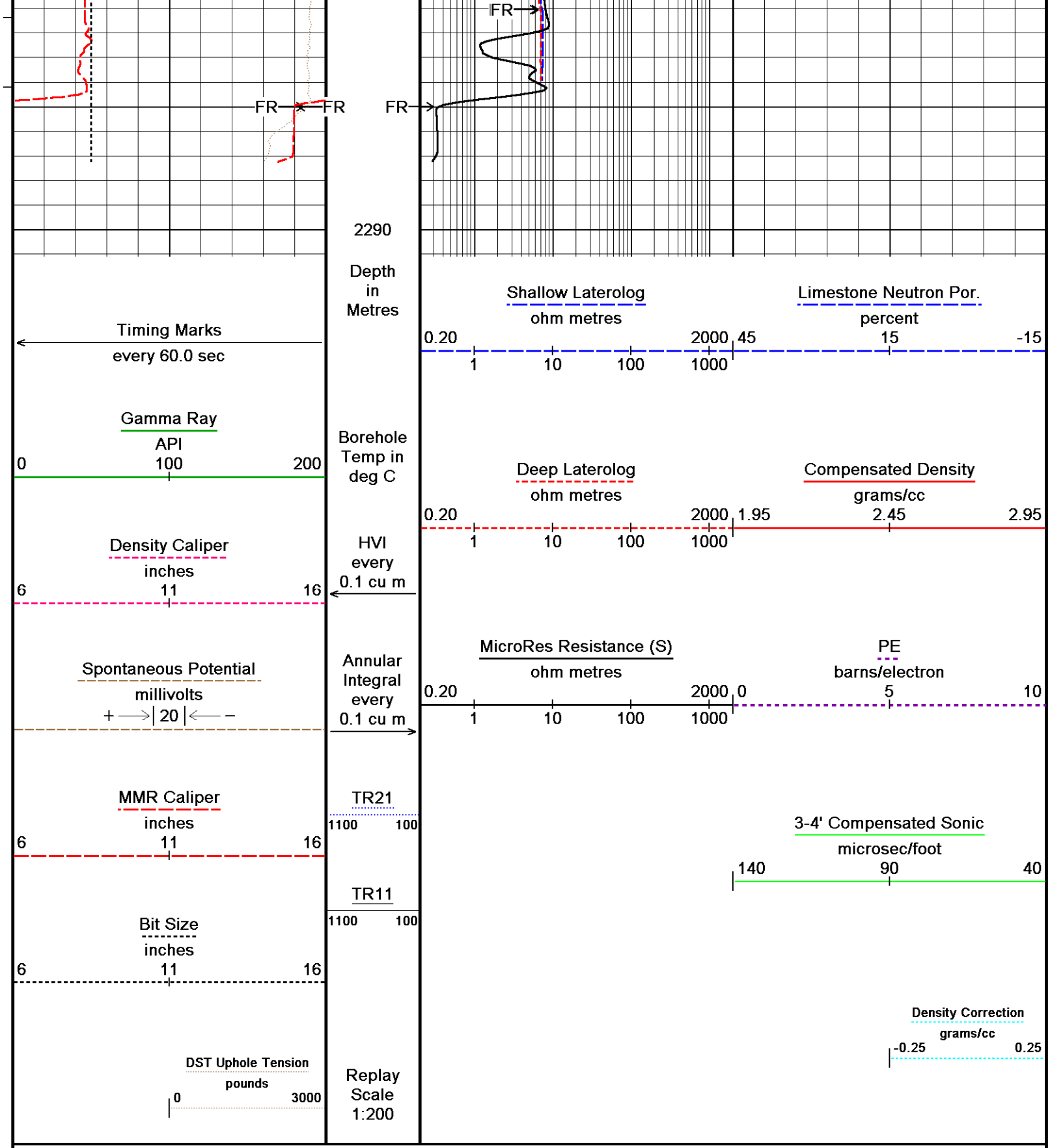

2010
72°
Bit Size
MMR Caliper
MicroRes Resistance (S)
Spontaneous Potential
Deep Laterolog
Shallow Laterolog
3-4' Compensated Sonic
PE
2020
Compensated Density
Density Correction
Density Caliper
Limestone Neutron Por.
Gamma Ray
DST Uphole Tension
2030
73°
2040
2050


2060
74°
2070
2080
75°
2090
2100
2110
77°
10
9
8
7
4
3
⇐Bit Size


MMR Caliper
MicroRes Resistance (S)
Spontaneous Potential
Deep Laterolog
Shallow Laterolog
3-4' Compensated Sonic
PE
Compensated Density
Density Caliper
Limestone Neutron Por.
Gamma Ray
DST Uphole Tension
2120
2130
78°
2140
2150
2160
79°


2170
2180
80°
2190
2200
2210
81°
2220
←Bit Size
←MMR Caliper
MicroRes Resistance (S)→
←Spontaneous Potential
Deep Laterolog→
Shallow Laterolog→
3-4' Compensated Sonic→
PE→
Compensated Density→
Density Correction→
Limestone Neutron Por.→
←Density Caliper
←Gamma Ray


DST Uphole Tension
2230
82°
2240
2250
2260
82°
2270
2280
FR
FR
FR
FR
FR
FR
FR
FR



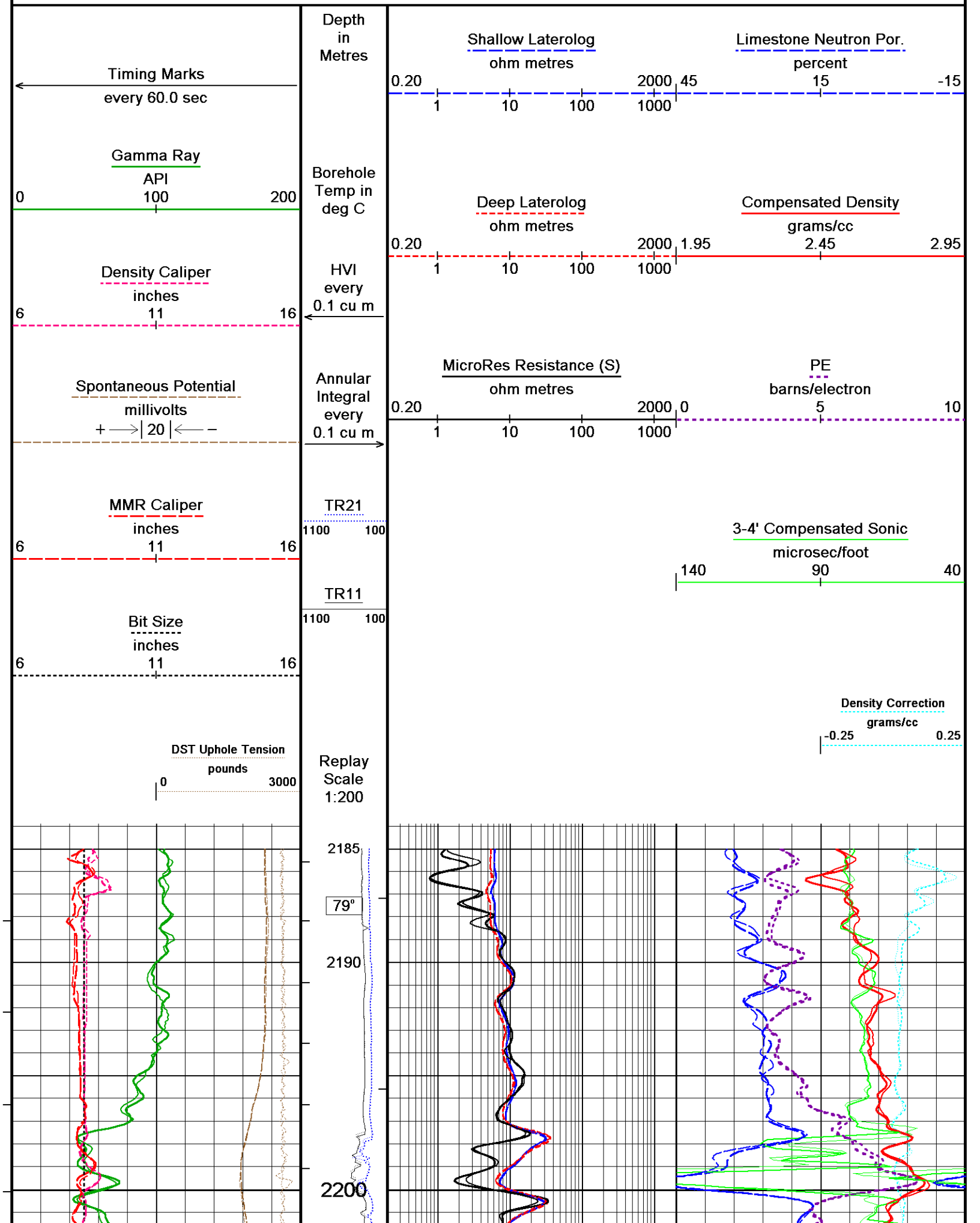
Depth Based Data - Maximum Sampling Increment 10.0cm
Plotted on 30-MAY-2008 01:11
Filename: C:\DOCUME~1\HELILI~1\LOCALS~1\Temp\Weatherford Pr...\EASTWING_1_MAINLOG.dta
Recorded on 29-MAY-2008 20:08
System Versions: Logged with 8.03.0116 Processed with 8.03.0116 Plotted with 8.01.0107

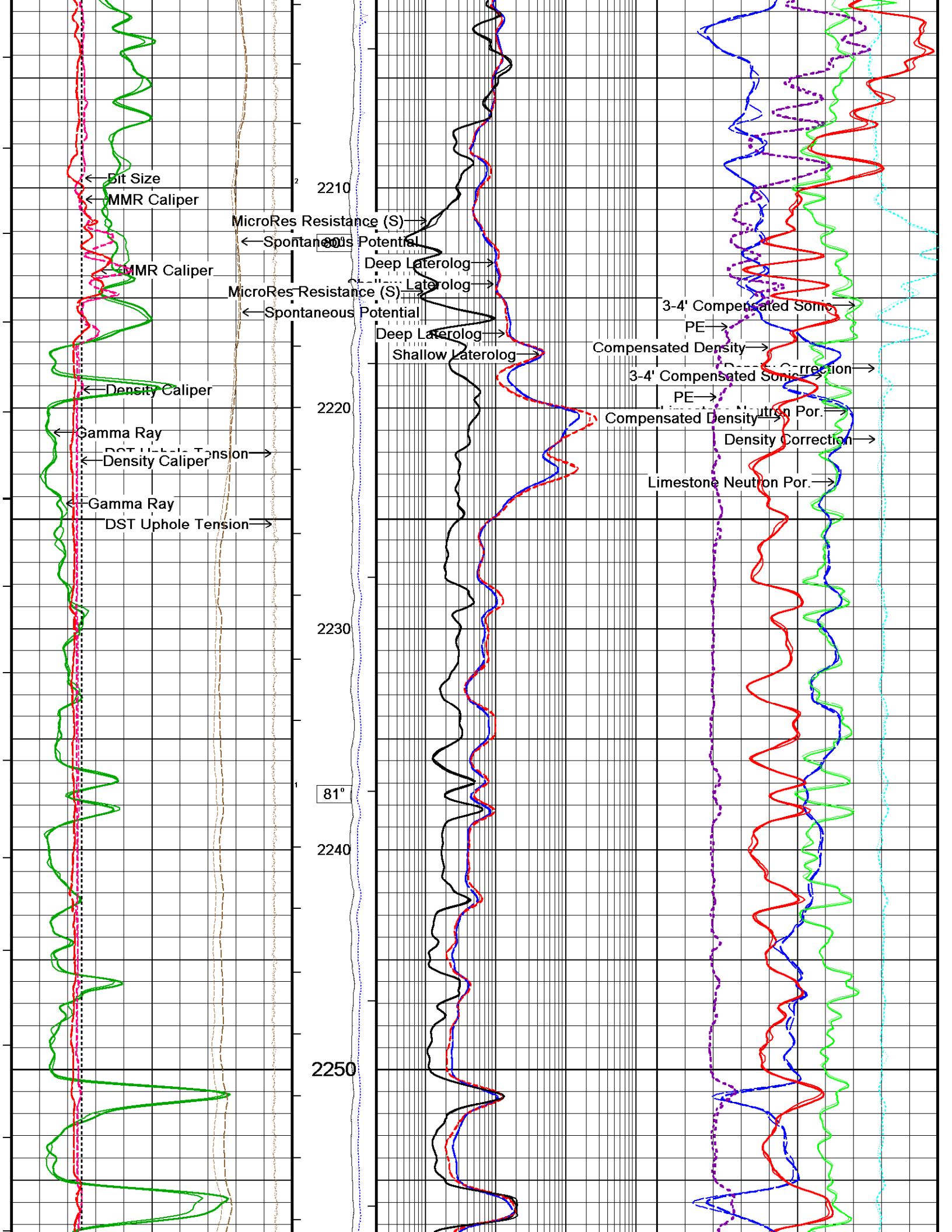
MAIN LOG 1:200

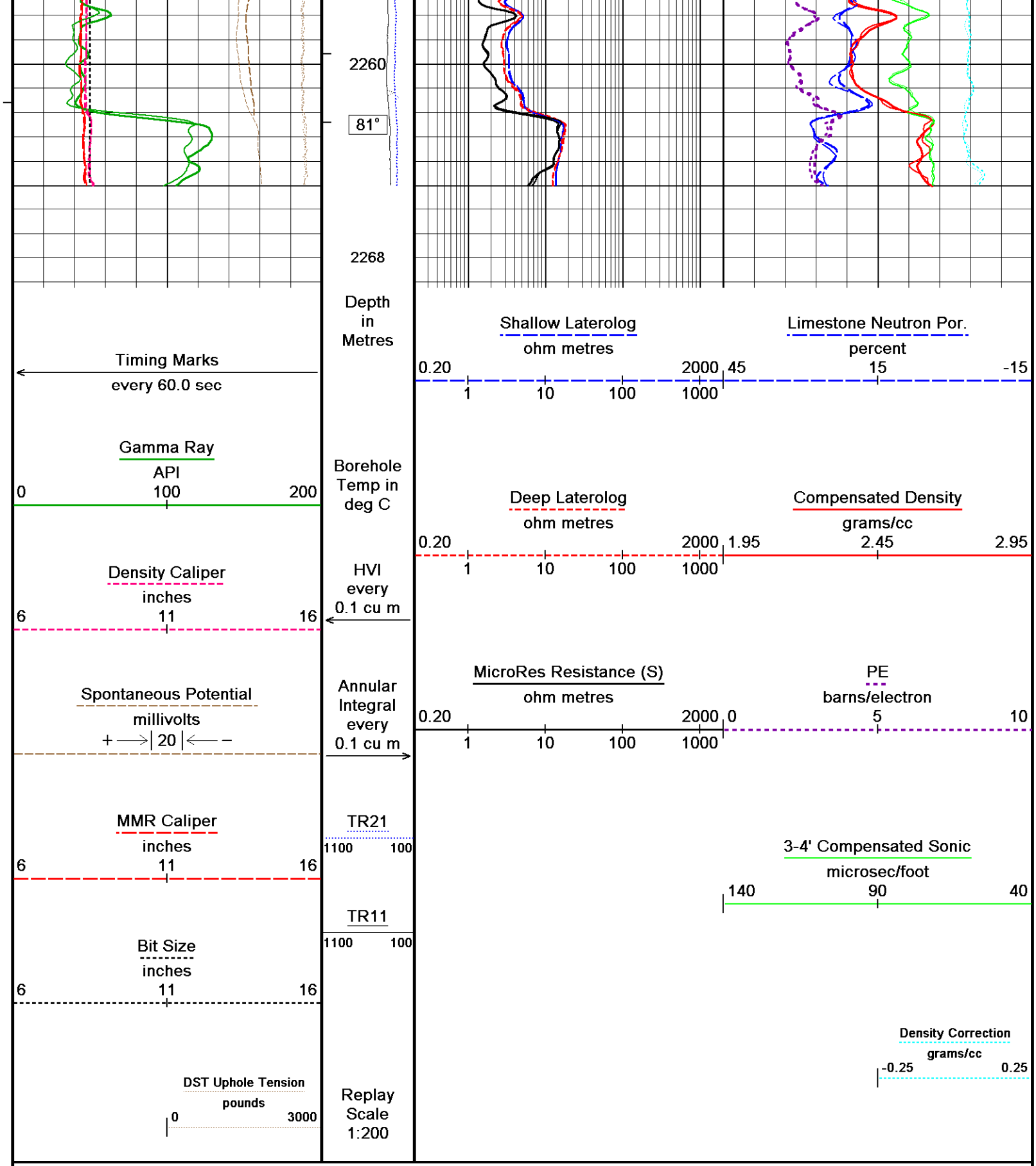
REPEAT SECTION
MAIN LOG 1:200

Depth Based Data - Maximum Sampling Increment 10.0cm
Plotted on 30-MAY-2008 01:11
Filename: C:\DOCUME~1\HELILI~1\LOCALS~1\Temp\Weatherford Pre...\EASTWING_1_REPEAT.dta
Recorded on 29-MAY-2008 18:24

Filename: C:\DOCUME~1\HELILI~1\LOCALS~1\Temp\Weatherford Pr...\EASTWING_1_MAINLOG.dta Recorded on 29-MAY-2008 20:08
System Versions: Logged with 8.03.0116 Processed with 8.03.0116 Plotted with 8.01.0107




Bit Size
MMR Caliper
MMR Caliper
Density Caliper
Gamma Ray
DST Uphole Tension
Density Caliper
Gamma Ray
DST Uphole Tension
2210
MicroRes Resistance (S)
Spontaneous Potential
80°
Deep Laterolog
Shallow Laterolog
MicroRes Resistance (S)
Spontaneous Potential
Deep Laterolog
Shallow Laterolog
2220
2230
81°
2240
2250
3-4' Compensated Sonic
PE
Compensated Density
Density Correction
3-4' Compensated Sonic
PE
Compensated Density
Density Correction
Limestone Neutron Por.



Depth Based Data - Maximum Sampling Increment 10.0cm
Plotted on 30-MAY-2008 01:11
Filename: C:\DOCUME~1\HELILI~1\LOCALS~1\Temp\Weatherford Pre...\EASTWING_1_REPEAT.dta
Recorded on 29-MAY-2008 18:24
Filename: C:\DOCUME~1\HELILI~1\LOCALS~1\Temp\Weatherford Pr...\EASTWING_1_MAINLOG.dta
Recorded on 29-MAY-2008 20:08
System Versions: Logged with 8.03.0116 Processed with 8.03.0116 Plotted with 8.01.0107

REPEAT SECTION
MAIN LOG 1:200

HIGH RESOLUTION 1:200

HIGH RESOLUTION 1:200

Depth Based Data - Maximum Sampling Increment 2.5cm
Plotted on 30-MAY-2008 01:11
Filename: C:\DOCUME~1\HELILI~1\LOCALS~1\Temp\Weatherford Pr...\EASTWING_1_HIGHRES.dta
Recorded on 29-MAY-2008 18:24
System Versions: Logged with 8.03.0116 Processed with 8.03.0116 Plotted with 8.01.0107

Timing Marks
every 60.0 sec

Gamma Ray
API
0 100 200

Density Caliper
inches
6 11 16

Spontaneous Potential
millivolts
+ 20 −

MMR Caliper
inches
6 11 16

Bit Size
inches
6 11 16

DST Uphole Tension
pounds
0 3000

Depth in Metres

Borehole Temp in deg C

HVI every 0.1 cu m

Annular Integral every 0.1 cu m

TR21
1100 100

TR11
1100 100

Replay Scale 1:200

Shallow Laterolog
ohm metres
0.20 2000
1 10 100 1000

Limestone Neutron Por.
percent
45 15 -15

Deep Laterolog
ohm metres
0.20 2000
1 10 100 1000

Vectar Processed Density
grams/cc
1.95 2.45 2.95

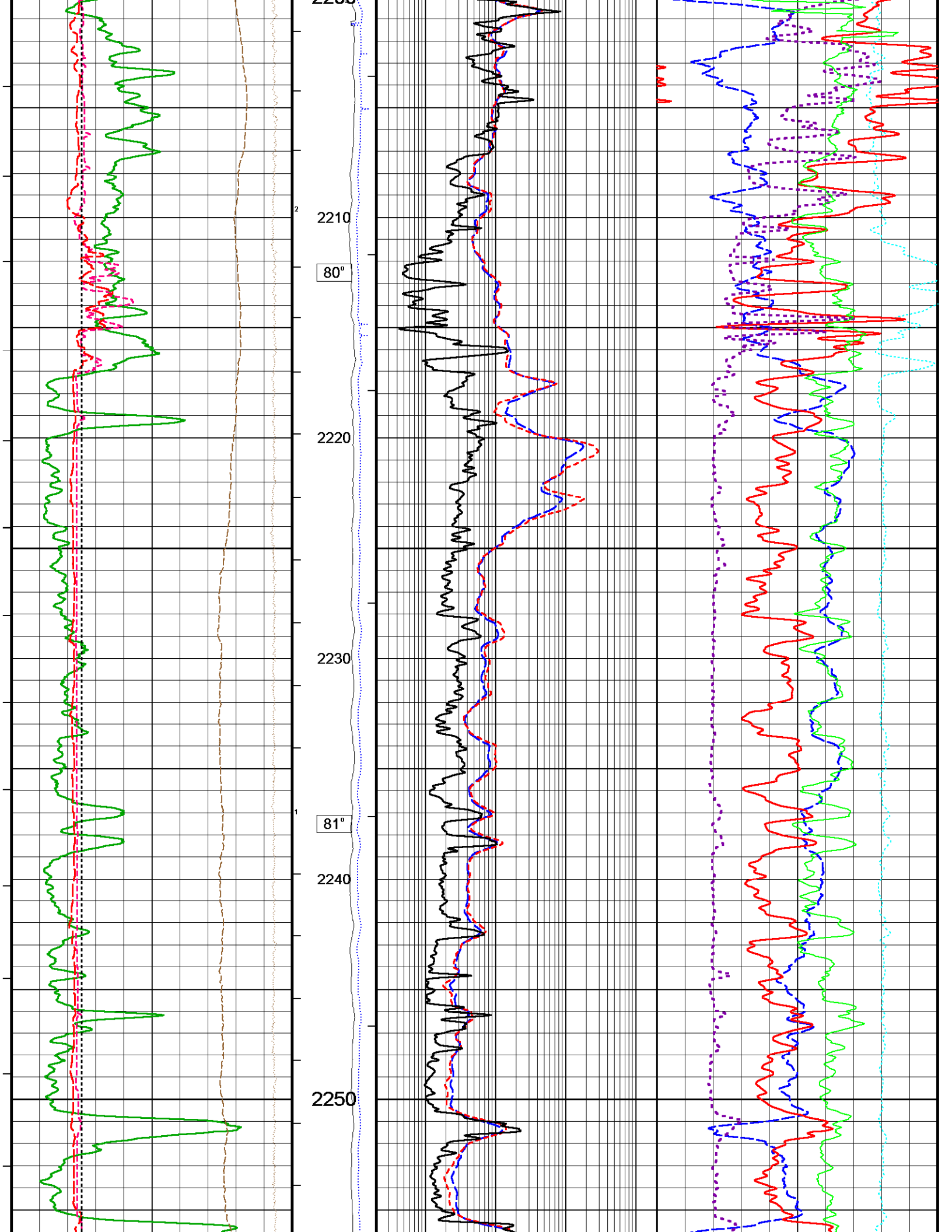
MicroRes Resistance (S)
ohm metres
0.20 2000
1 10 100 1000

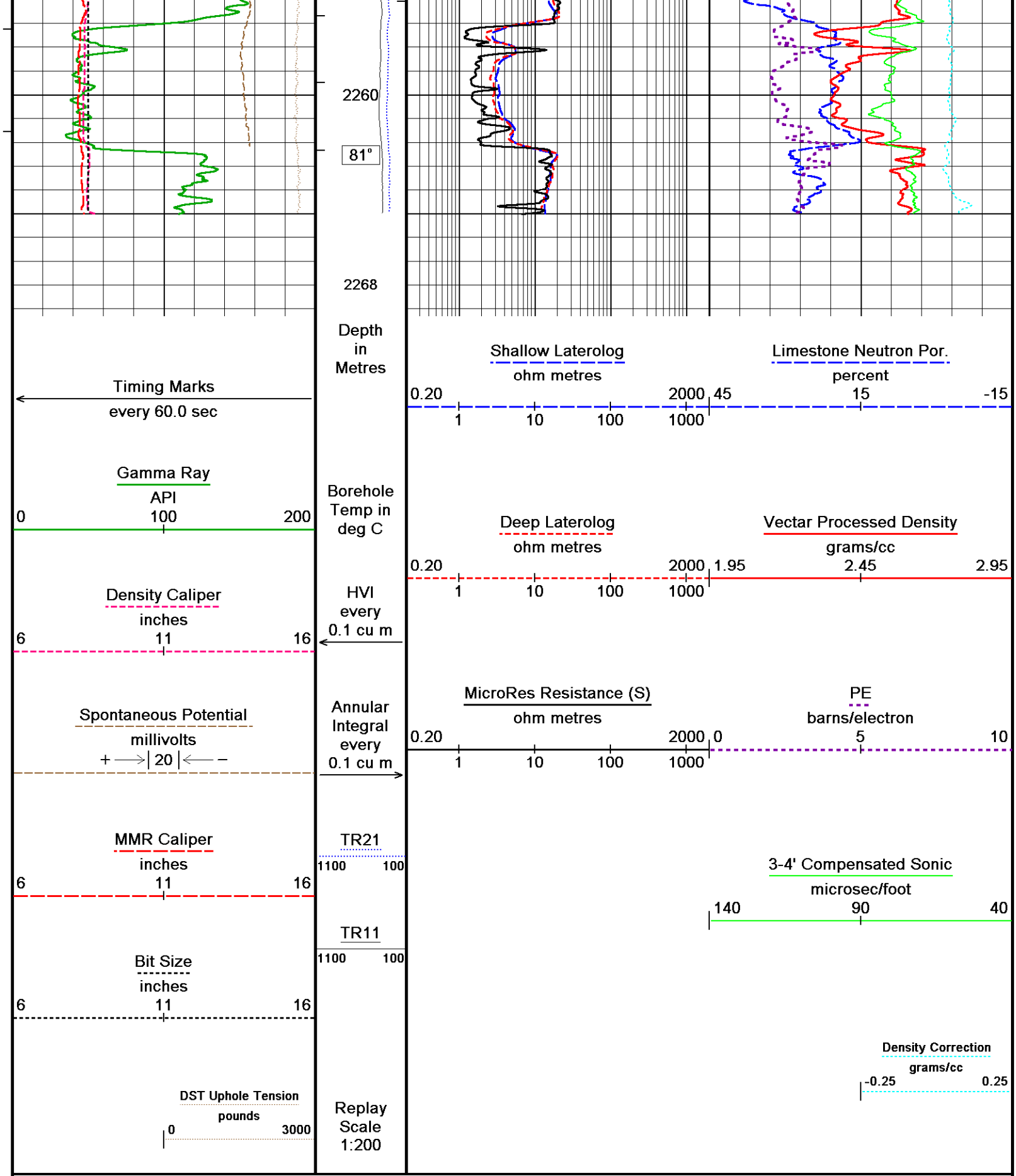
PE
barns/electron
0 5 10

3-4' Compensated Sonic
microsec/foot
140 90 40

Density Correction
grams/cc
-0.25 0.25

2185
79°
2190
2200


2210
80°
2220
2230
81°
2240
2250



Depth Based Data - Maximum Sampling Increment 2.5cm
Plotted on 30-MAY-2008 01:11
Filename: C:\DOCUME~1\HELILI~1\LOCALS~1\Temp\Weatherford Pr...\EASTWING_1_HIGHRES.dta
Recorded on 29-MAY-2008 18:24
System Versions: Logged with 8.03.0116 Processed with 8.03.0116 Plotted with 8.01.0107

HIGH RESOLUTION 1:200

BEFORE SURVEY CALIBRATION

C:\DOCUME~1\HELILI~1\LOCALS~1\Temp\Weatherford PreView\0\EASTWING_1_MAINLOG.dta

General Constants All 000

Last Edited on 29-MAY-2008,15:02

General Parameters		
Mud Resistivity	0.120	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	Density Caliper	
HVOL Caliper 2	Density Caliper	
Annular Volume Diameter	7.000	inches
Caliper for Differential Caliper	Density Caliper	

Rwa Parameters		
Porosity used	Base Density Porosity	
Resistivity used	Deep Laterolog	
RWA Constant A	0.610	
RWA Constant M	2.150	

Down-hole Tension Calibration SMS 000

Field Calibration on 02-MAY-2006 18:21

Reading No	Measured	Calibrated (lbs)
1	16259.89	0.00
2	16944.52	325.00

SP Calibration MCG 213

Field Calibration on

	Measured	Calibrated (mV)
Reference 1	0.0	0.0
Reference 2	0.0	0.0

High Resolution Temperature Calibration MCG 213

Field Calibration on 17-APR-2008,18:15

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

High Resolution Temperature Constants MCG 213

Pre-filter Length	11

Gamma Calibration MCG 213

Field Calibration on 26-MAY-2008 14:51

	Measured	Calibrated (API)
Background	35	24
Calibrator (Gross)	1371	933
Calibrator (Net)	1336	909

Gamma Constants MCG 213

Last Edited on 29-MAY-2008,16:14

Gamma Calibrator Number	060	
Mud Density	1.18	gm/cc
Caliper Source for Processing	Density Caliper	
Tool Position	Eccentred	
Concentration of KCl	0.00	kppm

Neutron Calibration MDN 184

Base Calibration on 1-MAY-2008 15:31
Field Check on 26-MAY-2008 14:59

Base Calibration

	Measured		Calibrated (cps)	
	Near	Far	Near	Far
	2997	92	3714	110
Ratio	32.551		33.764	

Field Calibrator at Base

	Calibrated (cps)	
	2013	3204
Ratio	0.628	

Field Check

	Calibrated (cps)	
	2000	3520

		2360	3529
Ratio			0.669

Neutron Constants MDN 184

Last Edited on 29-MAY-2008,16:15

Neutron Source Id	802	
Neutron Jig Number	90	
Epithermal Neutron	No	
Caliper Source for Processing	Density Caliper	
Stand-off	0.00	inches
Mud Density	1.17	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	MCG External Temperature	
Temperature	N/A	degrees C
Mud Salinity	55.36	kppm
Formation Fluid Salinity Source	Constant Value	
Formation Fluid Salinity	0.00	kppm
Barite Mud Correction	Not Applied	

Caliper Calibration MPD 187

Base Calibration on 2-MAY-2008 11:01
Field Calibration on 29-MAY-2008,23:30

Base Calibration

Reading No	Measured	Calibrator Size (in)
1	14876	4.00
2	24624	5.99
3	34739	7.99
4	44943	9.94
5	56171	12.01
6	N/A	N/A

Field Calibration

Measured Caliper (in)	Actual Caliper (in)
8.85	8.92

Photo Density Calibration MPD 187

Base Calibration on 2-MAY-2008 10:40
Field Check on 26-MAY-2008 14:44

Density Calibration

Base Calibration	Measured		Calibrated (sdu)	
	Near	Far	Near	Far
Reference 1	56652	27831	59983	31159
Reference 2	22574	2722	24663	2534

Field Check at Base

1422.1	1516.3

Field Check

1415.8	1509.2

PE Calibration

Base Calibration	Measured			Calibrated
	WS	WH	Ratio	Ratio
Background	258	1255		
Reference 1	23466	56412	0.421	0.369
Reference 2	6388	22401	0.290	0.269

Field Check at Base

257.6	1255.4

Field Check

255.7	1258.4

Density Constants MPD 187

Last Edited on 29-MAY-2008,16:15

Density Source Id	293
Nylon Calibrator Number	638
Aluminium/Fe Calibrator Number	638
Density Shoe Profile	8 inch
Caliper Source for Processing	Density Caliper

PE Correction to Density	Not Applied	
Mud Density	1.17	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
Density Z/A Correction	Advanced	

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

Sonic Constants MSS 140

Last Edited on 29-MAY-2008,23:47

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	3-4' Compensated Sonic	
Correction for Sonde Skew	Not Applied	
Cycle Stretch Algorithm	Not Applied	
MN3FT	N/A	micro-sec
MX3FT	N/A	micro-sec
Hunt-Raymer Constant	83.13	micro-sec/ft

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	N/A	N/A	

Down Hole Fixed Gate Parameters

Gate Start	N/A	micro-sec
Gate Width	N/A	micro-sec
Initial Discriminator Level	0.0000	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

SP Calibration MLE 055

Field Calibration on 26-MAY-2008 15:19

	Measured	Calibrated (mV)
Reference 1	80.2	81.0
Reference 2	-83.7	-82.0

Laterolog Calibration MLE 055

Base Calibration on 5-MAY-2008 11:21
Field Check on 26-MAY-2008 15:06

Base Calibration

Channel	Measured Resistor 1	Measured Resistor 2	Calibrated (ohm-m) Resistor 1	Calibrated (ohm-m) Resistor 2
Shallow	9.8	979.7	13.3	1327.3
Deep	10.6	980.3	8.5	852.7
Groningen	9.9	979.3	8.5	852.7

Channel	Base Check (ohm-m)	Field Check (ohm-m)
Shallow	48.7	48.7
Deep	30.6	30.6
Groningen	250.4	250.5

Laterolog Constants MLE 055

Last Edited on 26-MAY-2008,14:29

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 (Lower)	
Groningen Connection	Groningen Electrode (Upper)	

Borehole Correction Constants

Stand-off	0.00	
Caliper Source	Density Caliper	
Hole Size	N/A	inches
Mud Resistivity Source	Temperature Corrected	
Temp. for Rm Corr.	MCG External Temperature	

Caliper Calibration MMR 063

Base Calibration on 5-MAY-2008 12:04
Field Calibration on 29-MAY-2008,23:30

Base Calibration

Reading No	Measured	Calibrator Size (in)
1	14993	5.97
2	18103	7.99
3	21307	9.94
4	25405	12.01
5	0	0.00
6	N/A	N/A

Field Calibration

Measured Caliper (in)	Actual Caliper (in)
8.24	8.92

Micro Laterolog Calibration MMR 063

Base Calibration on 5-MAY-2008 11:54
Field Check on 26-MAY-2008 15:09

Base Calibration

Measured Ref 1	Measured Ref 2	Calibrated (ohm-m) Ref 1	Calibrated (ohm-m) Ref 2
0.0	9841.3	0.0	165.0

Base Check (ohm-m)	Field Check (ohm-m)
6.7	6.7

Micro Laterolog Constants MMR 063

Last Edited on 26-MAY-2008,14:24

Micro Laterolog K Factor	0.0165	
Standoff Offset	0.0000	inches

Borehole Correction Constants

Mud Cake Source	Constant Value	
Mud Cake Thickness	0.2500	inches
Mud Cake Thickness Caliper	N/A	
Mud Cake Resistivity	0.1500	ohm-m

DOWNHOLE EQUIPMENT

C:\DOCUME~1\HELILI~1\LOCALS~1\Temp\Weatherford PreView\0\EASTWING_1_MAINLOG.dta

MCC-A 11C Tension Cablehead

MCC 1 Length: 0.73 m Weight: 19.8 lb

11C-11B MTA-A Compact Tool Adaptor
MTA 1 Length: 0.47 m Weight: 13.2 lb

Compact Stiff Bridle Electrode Sub.
MBE 76 Length: 3.76 m Weight: 77.2 lb

Compact Stiff Bridle Electrode Sub.
MBE 74 Length: 3.76 m Weight: 77.2 lb

22.24 m SPDL - Spontaneous Potential

Compact Gamma
MCG 213 Length: 2.65 m Weight: 63.9 lb

17.90 m GRGC - Gamma Ray
17.01 m CGXT - MCG External Temperature

Compact Neutron
MDN 184 Length: 1.53 m Weight: 50.7 lb

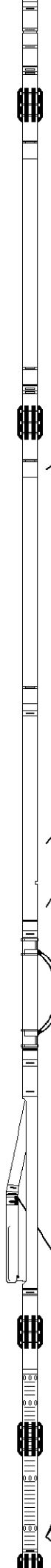
15.93 m NPRL - Limestone Neutron Por.

Compact Density/Caliper
MPD 187 Length: 2.92 m Weight: 90.4 lb

13.35 m AVOL - Annular Volume
13.35 m HVOL - Hole Volume
13.35 m CLDC - Density Caliper
13.14 m DEN - Compensated Density
13.14 m DCOR - Density Correction
13.12 m PDPE - PE

Compact Sonic
MSS 140 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



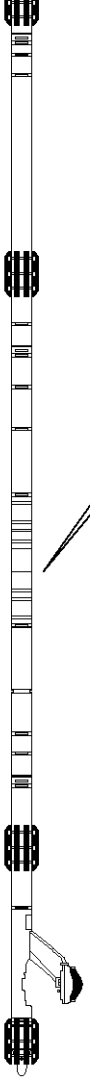
Compact Upper Guard Sub.
MUG 53 Length: 2.74 m Weight: 68.3 lb

Compact Laterolog Electrode Sub.
MLE 55 Length: 3.76 m Weight: 92.6 lb

Compact Micro-Resistivity
MMR 63 Length: 2.62 m Weight: 81.6 lb

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

Total Length: 29.03 m Weight: 714.3 lb



9.24 m	TR12 - 6' Transit Time
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)

All measurements relative to tool zero.

COMPANY	ESSENTIAL PETROLEUM EXPLORATION PTY LTD
WELL	EAST WING - 1ST
FIELD	EAST WING
PROVINCE/COUNTY	VICTORIA
COUNTRY/STATE	AUSTRALIA

Elevation Kelly Bushing	56.37	metres	First Reading	2285.00	metres
Elevation Drill Floor	56.10	metres	Depth Driller	2305.00	metres
Elevation Ground Level	52.00	metres	Depth Logger	2285.85	metres

Weatherford®

DLL-SLL-MLL-SONIC
DENSITY - NEUTRON
1:200

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Weatherford®