

COMPENSATED SONIC

COMPANY **PARAMOUNT RESOURCES LTD.**
WELL **PARA ET AL CAMERON L-29**
FIELD **CAMERON HILLS**
PROVINCE/COUNTY **NORTHWEST TERRITORIES**
COUNTRY/STATE **CANADA**
LOCATION **300L296010117300** **FIELD PRINT**

LSD SEC TWP RGE Other Services
ARRAY INDUCTION PHOTO DENSITY
DUAL SPACED NEUTRON

API Number 2041 MICROLOG

Permanent Datum GROUND LEVEL, Elevation 754.1 metres

Log Measured From 5.4 M above Permanent Datum

Drilling Measured From KB

Elevations:
KB 759.50
DF 754.10
GL

Date 05-FEB-2006

Run Number 1

Depth Driller 1515.50 metres

Depth Logger 1516.70 metres

First Reading 1512.20 metre

Last Reading 436.00 metre

Casing Driller 435.50 metres

Casing Logger 436.00 metres

Bit Size 200.00 mm

Hole Fluid Type GEL CHEM

Density / Viscosity 1135.0 kg/M3 80.00 CP

PH / Fluid Loss 10.50 10.00 ml/30Min

Sample Source FLOWLINE

Rm @ Measured Temp 0.92 @ 25.0 ohm-m

Rmf @ Measured Temp 0.69 @ 25.0 ohm-m

Rmc @ Measured Temp 1.12 @ 25.0 ohm-m

Source Rmf / Rmc PRESS FILTER

Rm @ BHT 0.60 @ 49.0 ohm-m

Time Since Circulation 7.0 HRS

Max Recorded Temp 49.00 deg C

Equipment Name COMPACT

Equipment / Base QUINT GPR

Recorded By M. BONNELL

Witnessed By B. POWELL

CIRC. STOP TIME FEB-05 21:00

Last Line

BOREHOLE RECORD

Last Edited: 5-FEB-2007 23:19

Bit Size millimetres	Depth From metres	Depth To metres
311.000	0.00	435.50
200.000	435.50	1515.50

CASING RECORD

Type	Size millimetres	Depth From metres	Shoe Depth metres	Weight Kg/metre
SURFACE	219.100	0.00	435.50	35.72

REMARKS

- 1) SOFTWARE ISSUE: WLS 7.01.0195.
- 2) CUSTOMER SCALES AND LOGGED INTERVALS USED
- 3) TOOLS RUN: MAI, MSS, MPD, MDN, MML, ISC, MGS, MTC, MFE, MCG RUN IN COMBINATION
- 4) HARDWARE: MAI: TWO 25.4 MM STANDOFFS
MSS: THREE 25.4 MM STANDOFFS
MDN: DUAL BOWSPRING AND INTERSONDE CRANK
MTC: SIX LEAF CENTRALIZER
- 5) SERVICE ORDER #: 30073223 SAP #: 4146696 # FIELD PRINTS = 1
- 6) RIG: PD 220

7) SONIC FREE PIPE: FOUND FROM 382-386M

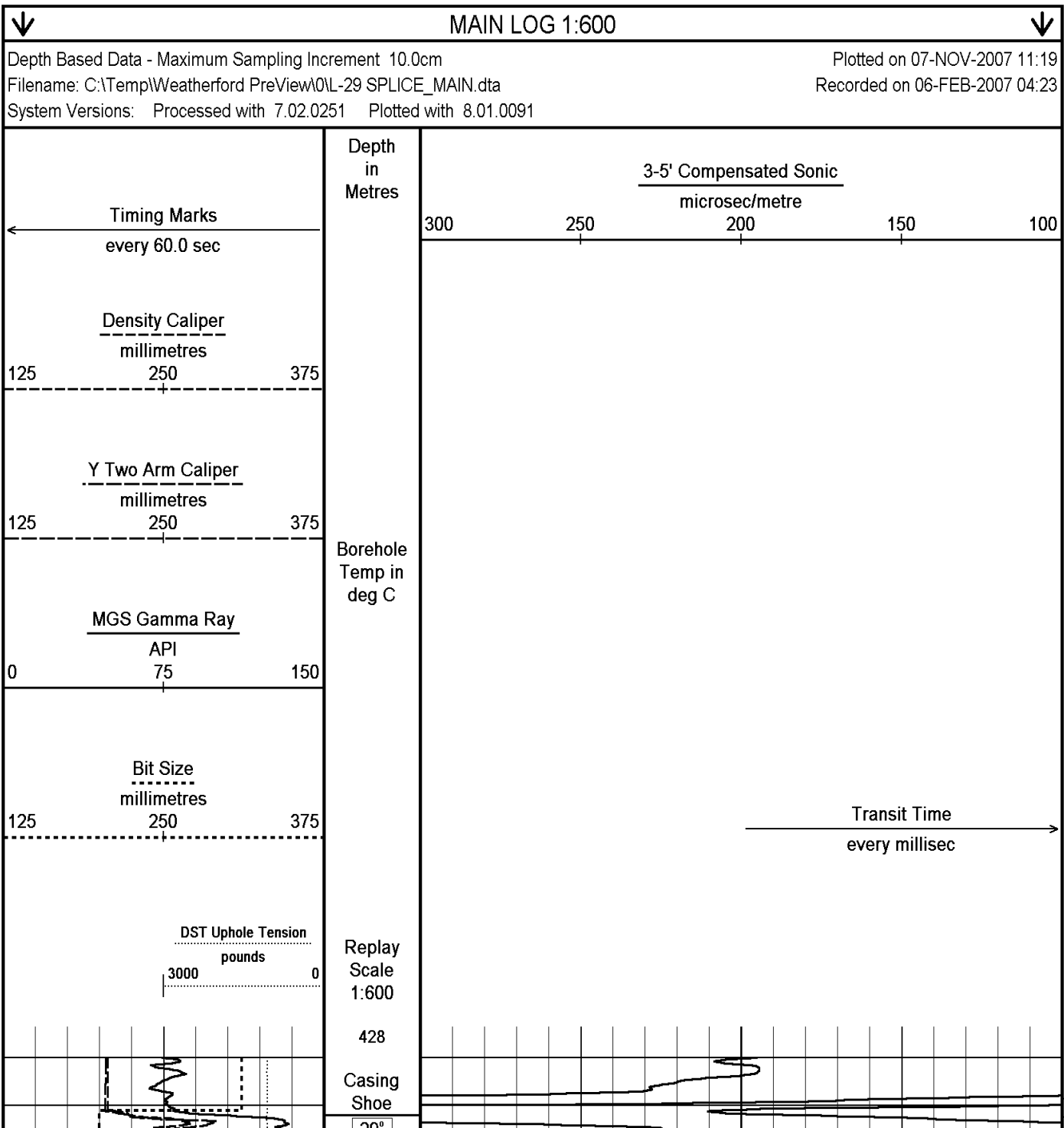
8) HOLE AND CEMENT VOLUMES FROM TD-SURFACE CASING CALCULATED USING DENSITY AND 2-ARM CALIPERS :

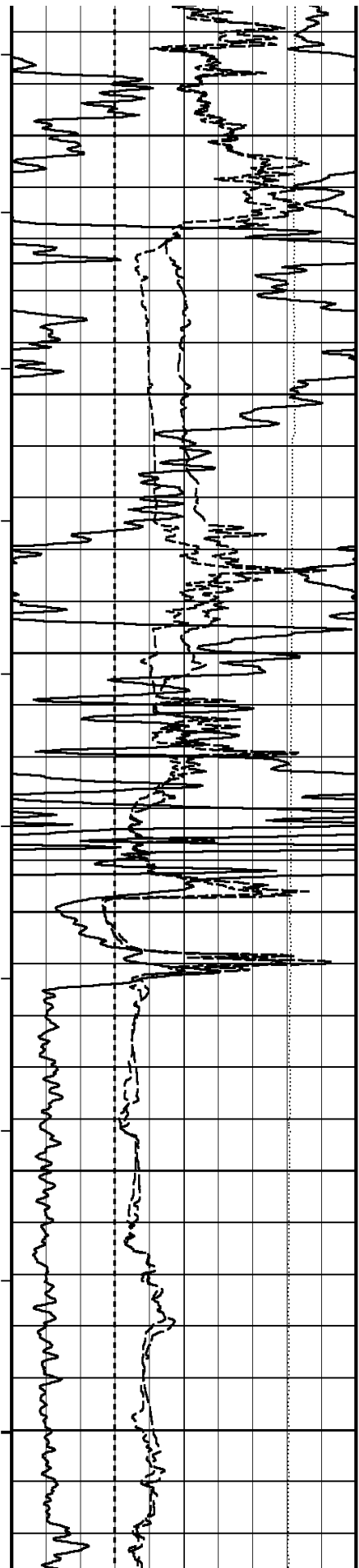
HOLE VOLUME = 41.0 CU.M.

ANNULAR VOLUME USING 139.7 MM PRODUCTION CASING = 24.6 CU.M

9) SALTY INDUCTION MODEL PRESENTED OFF BOTTOM.

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.





27

450

29°

30°

500

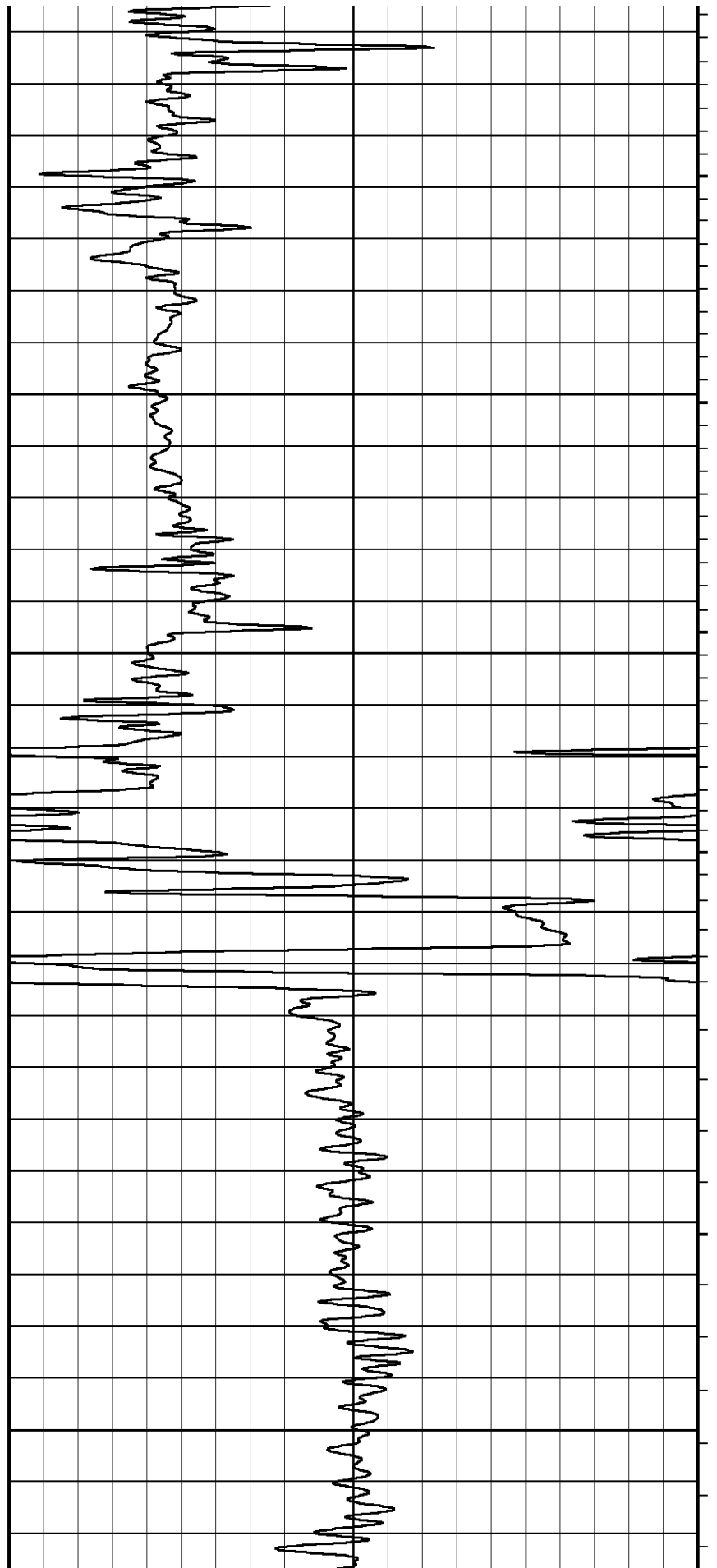
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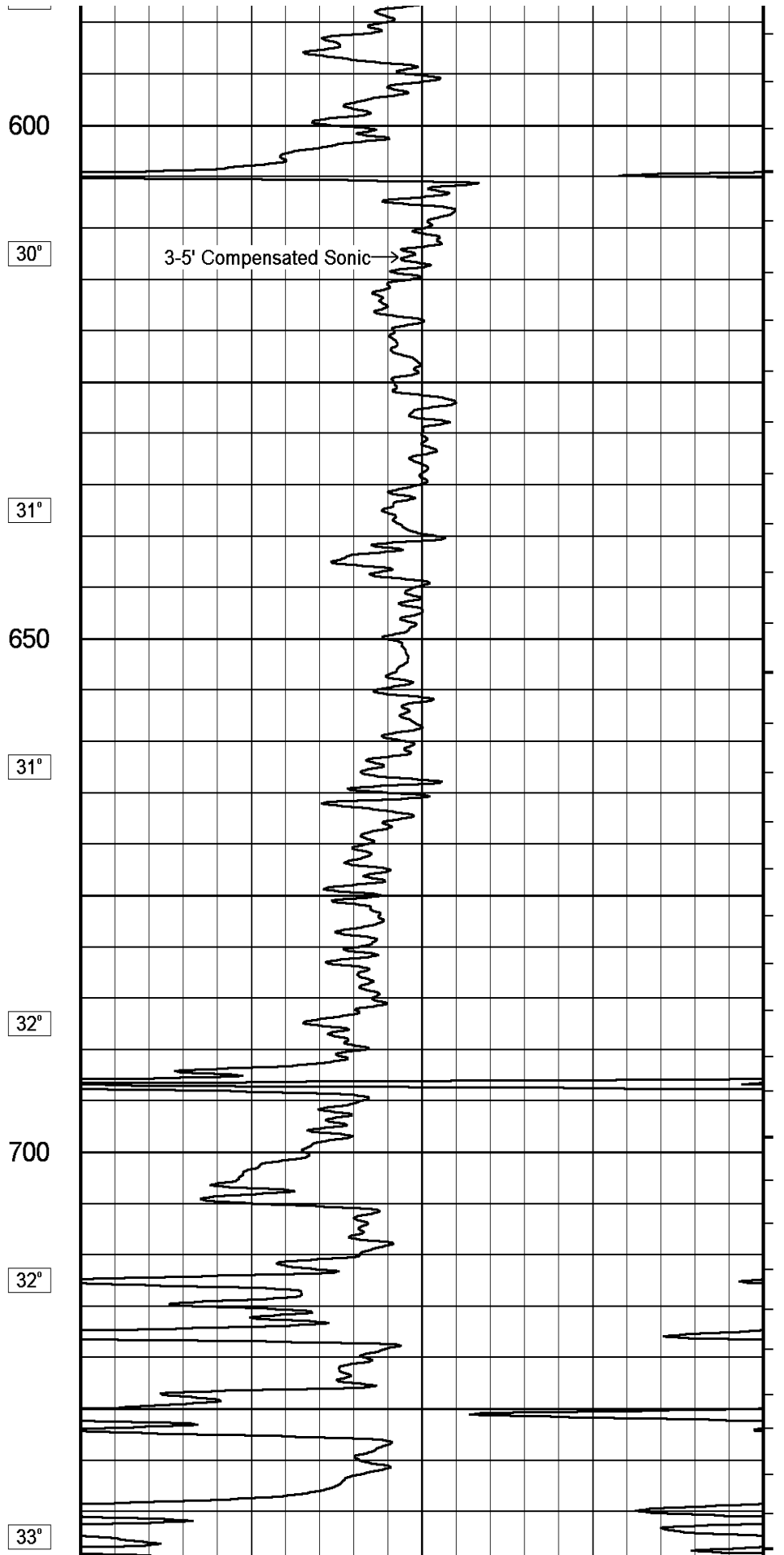
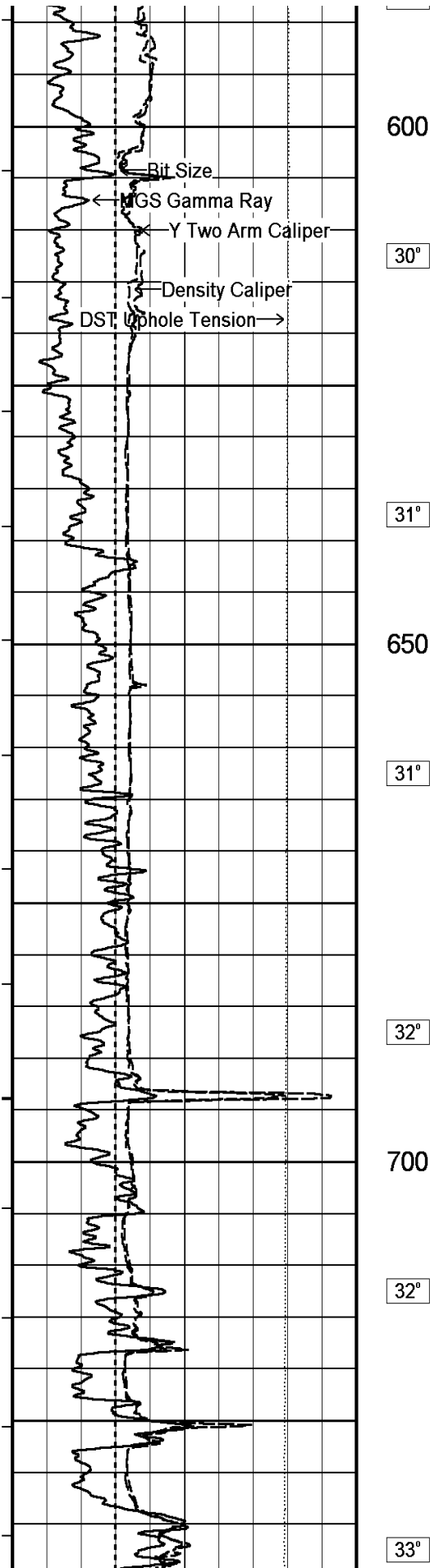
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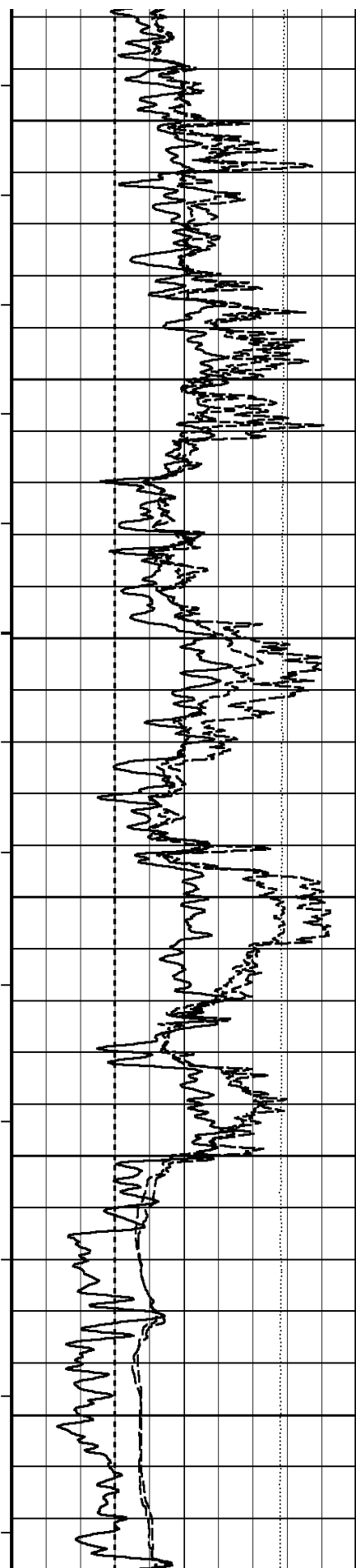
550

30°

30°







750

33°

34°

800

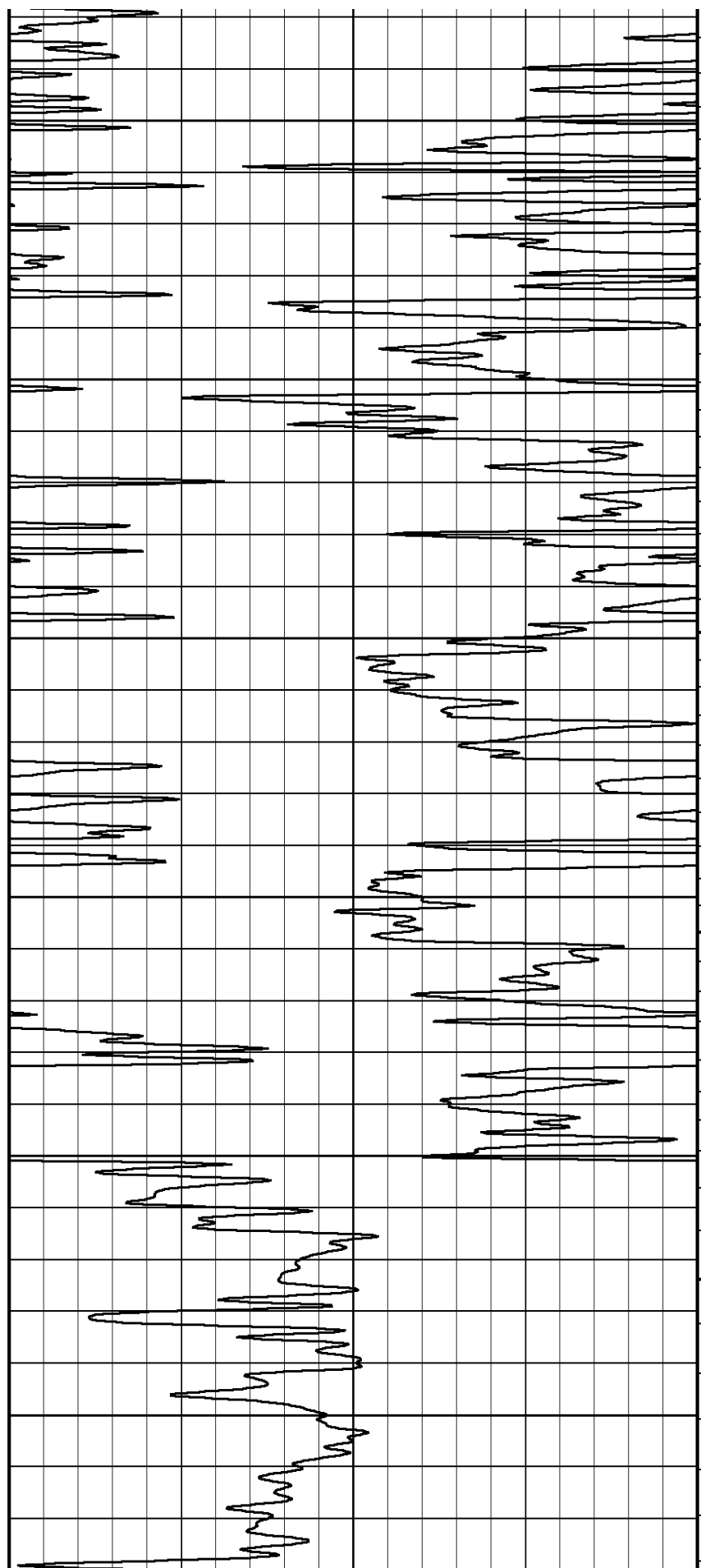
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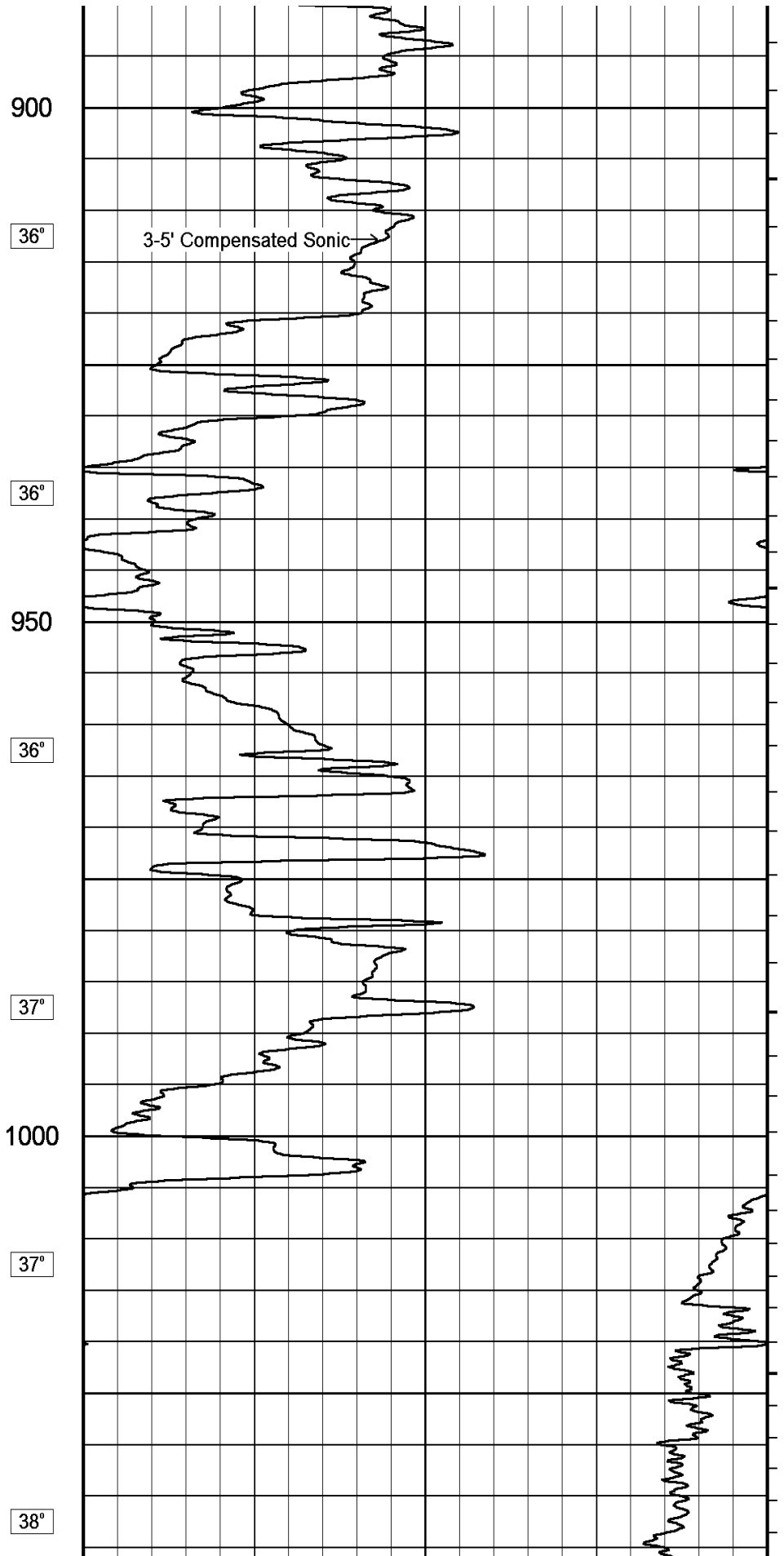
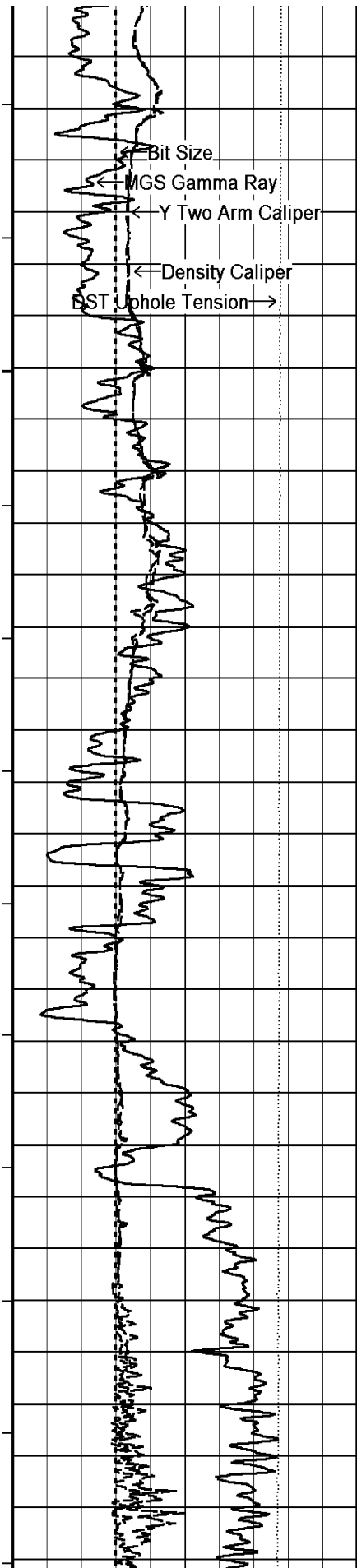
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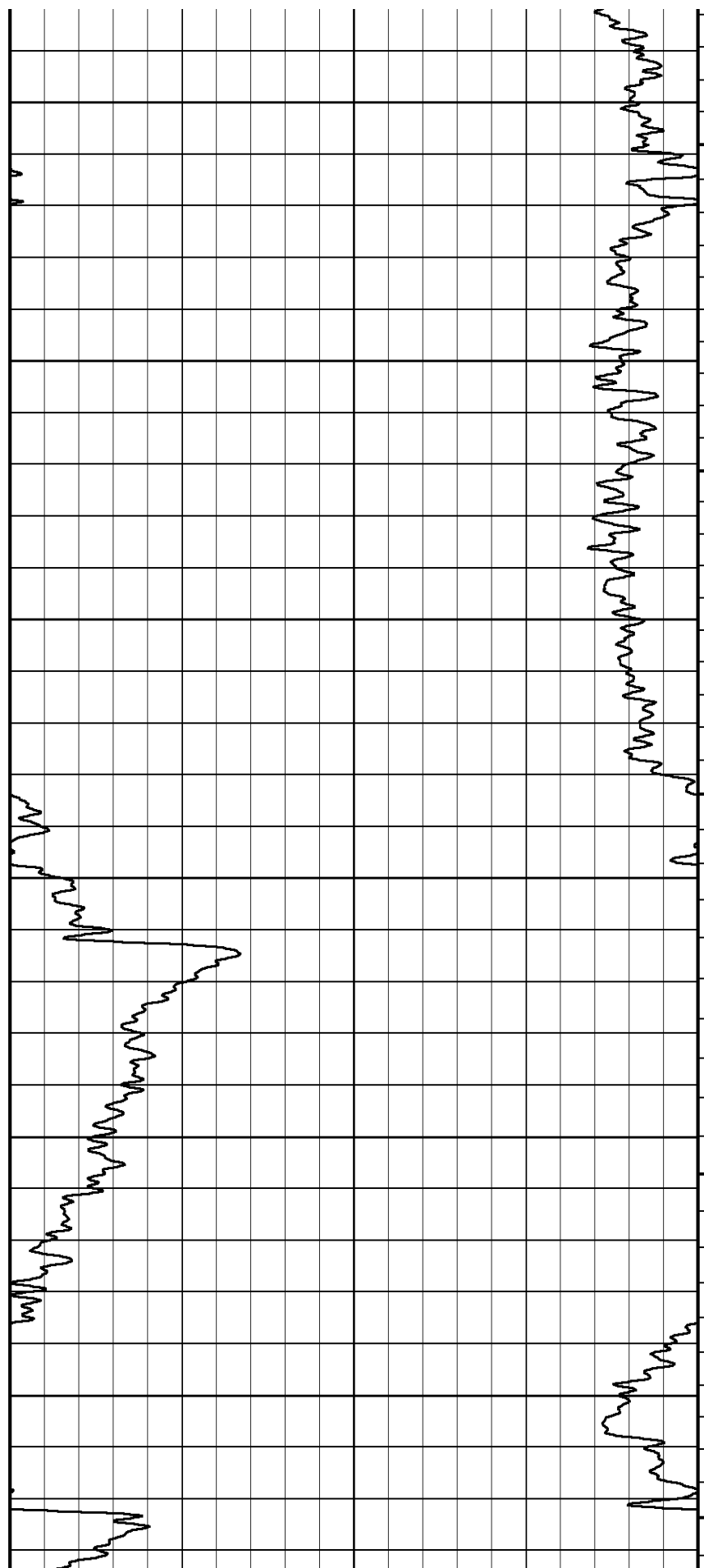
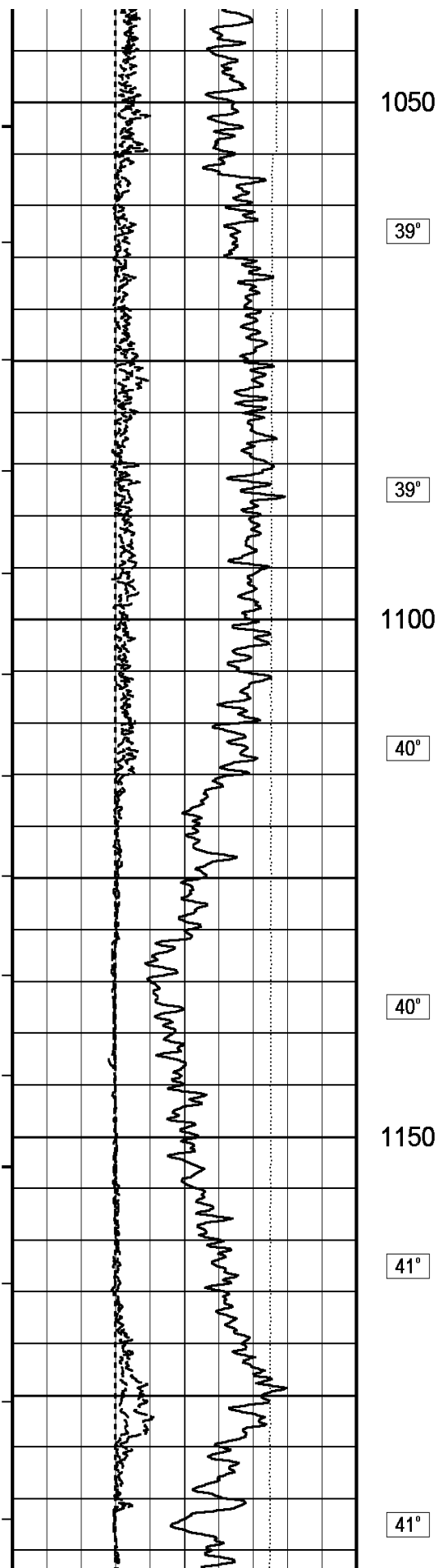
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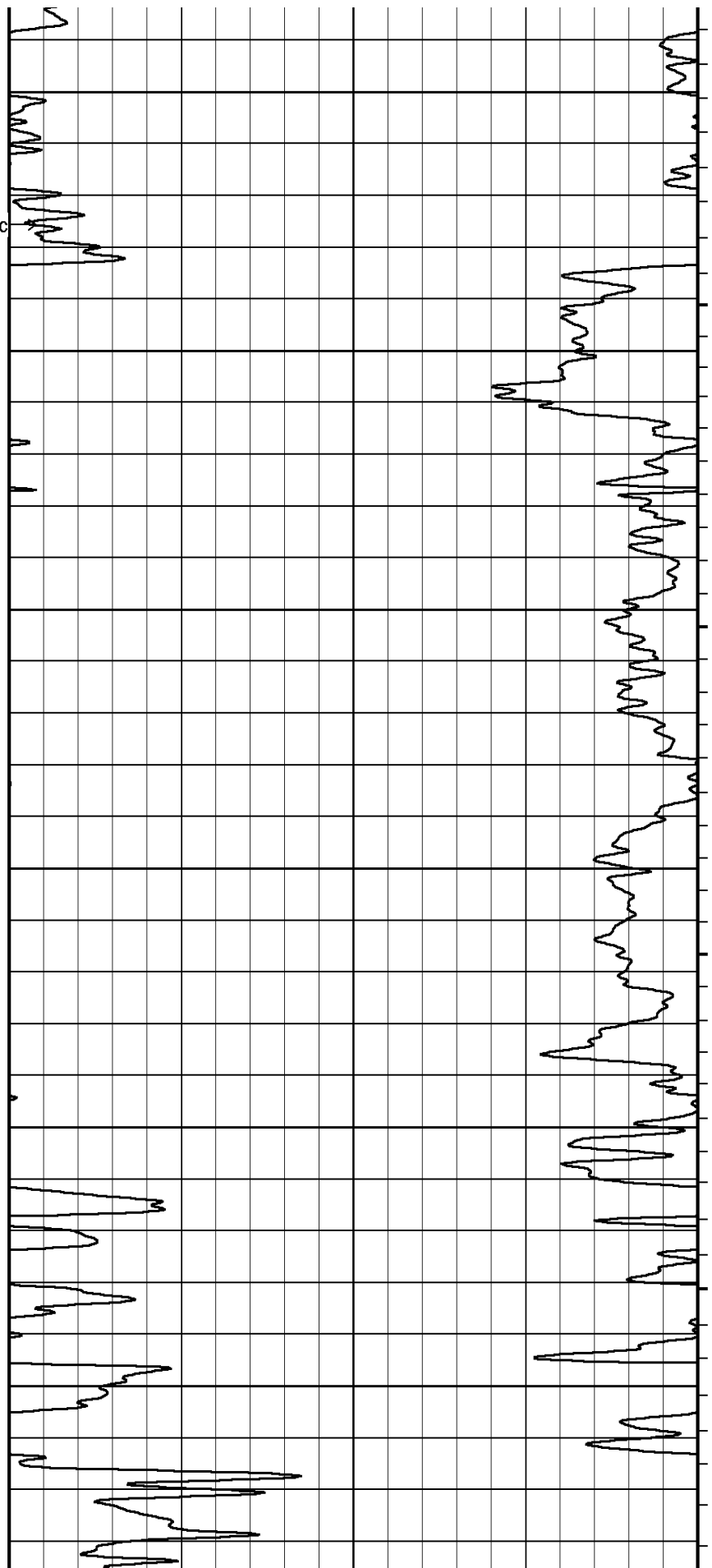
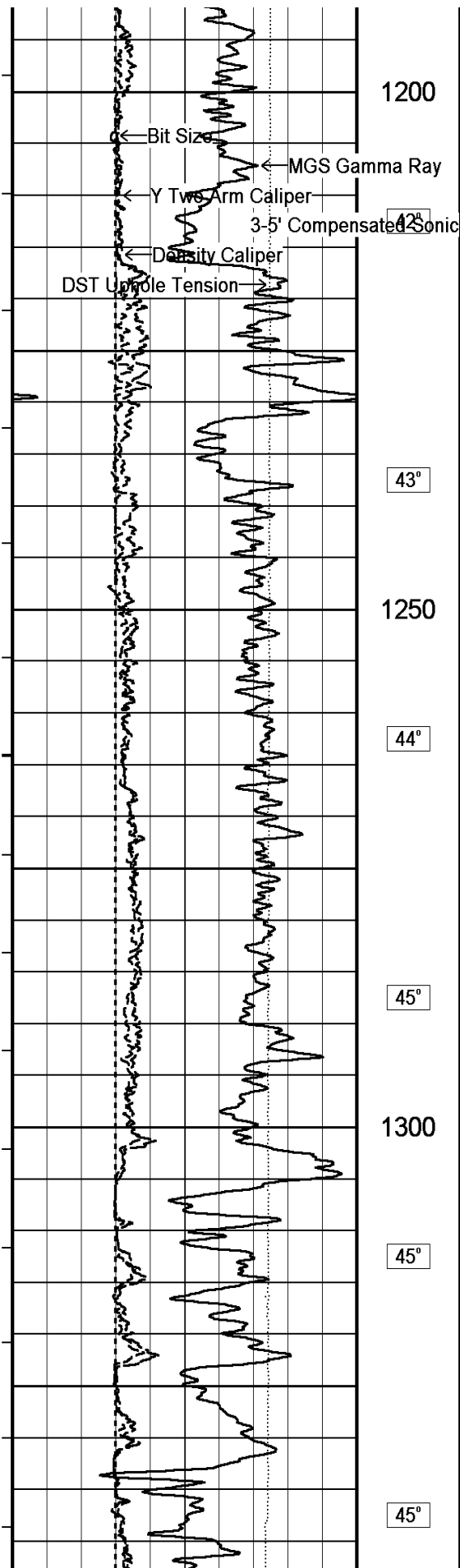
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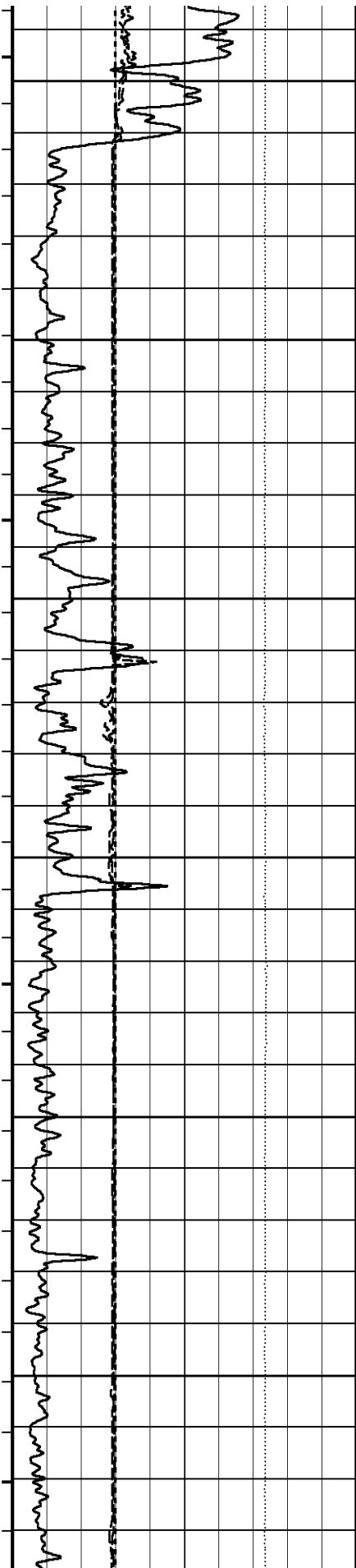
35°











1350

46°

47°

1400

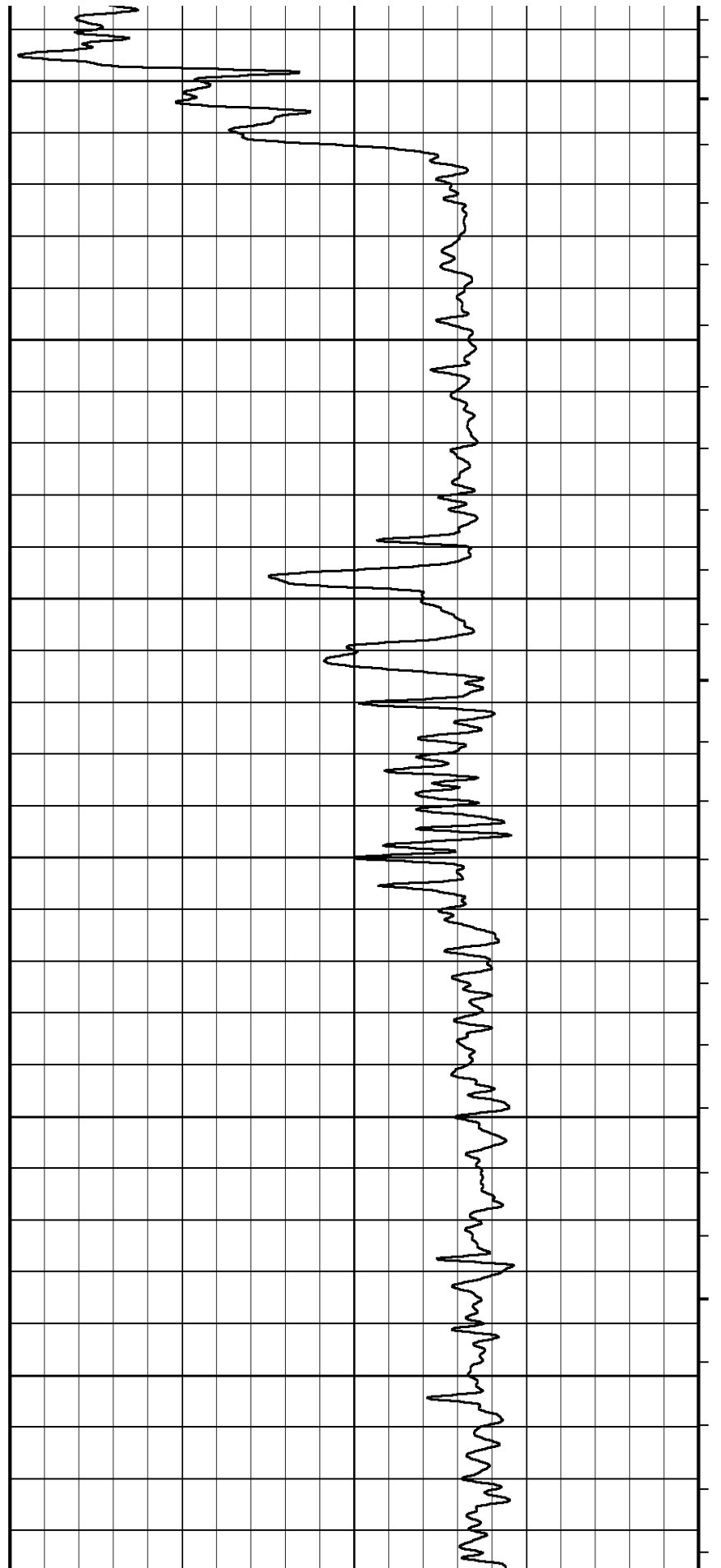
48°

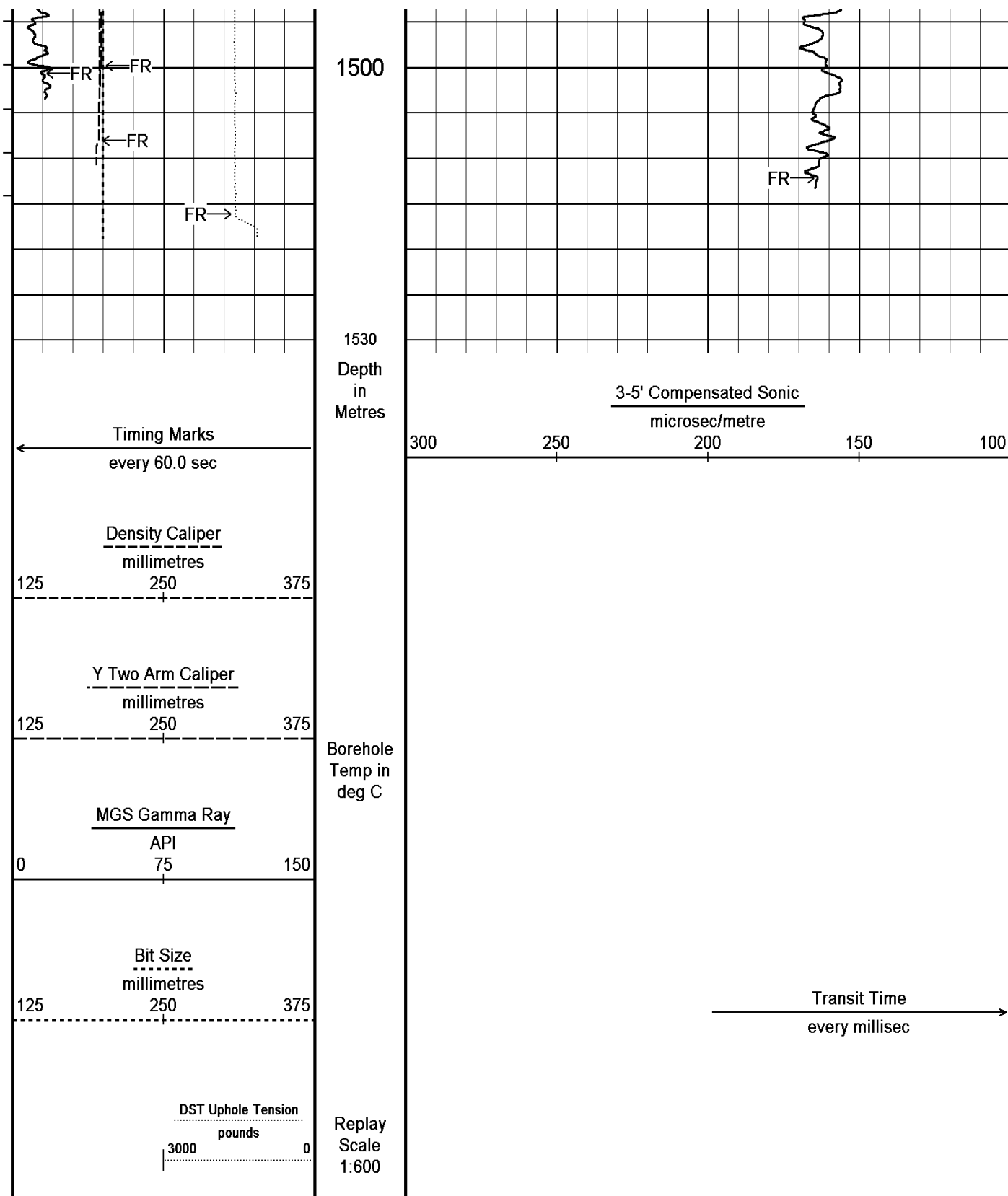
48°

1450

49°

49°



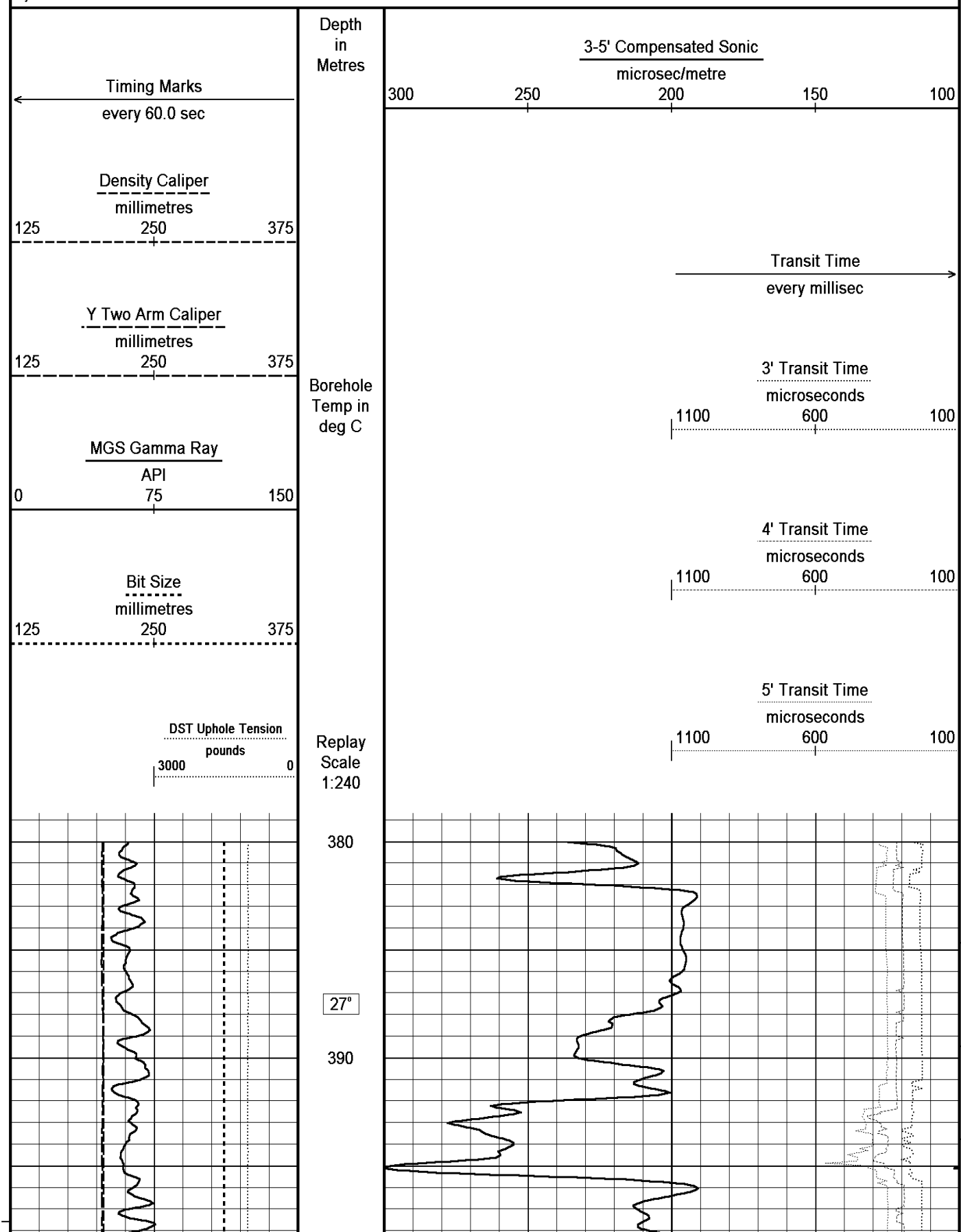


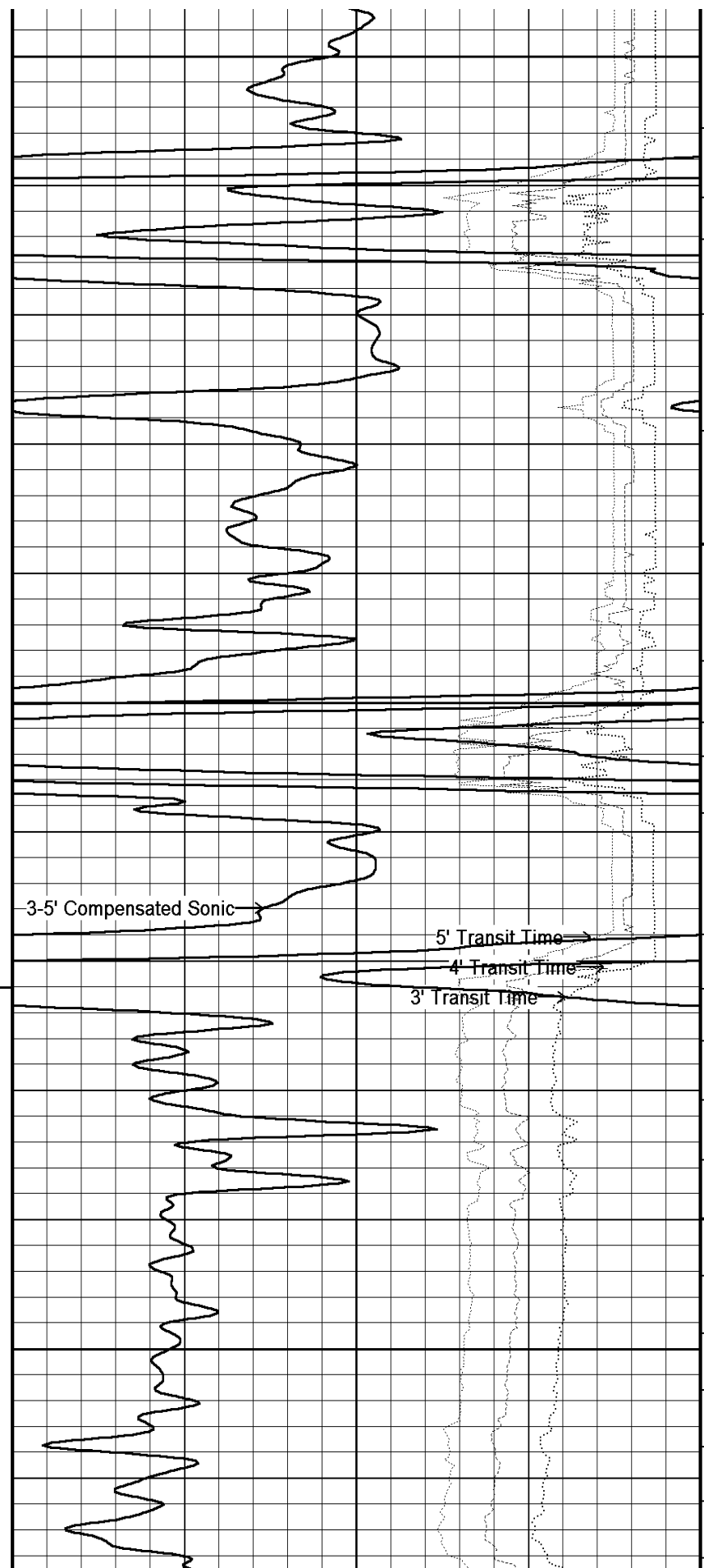
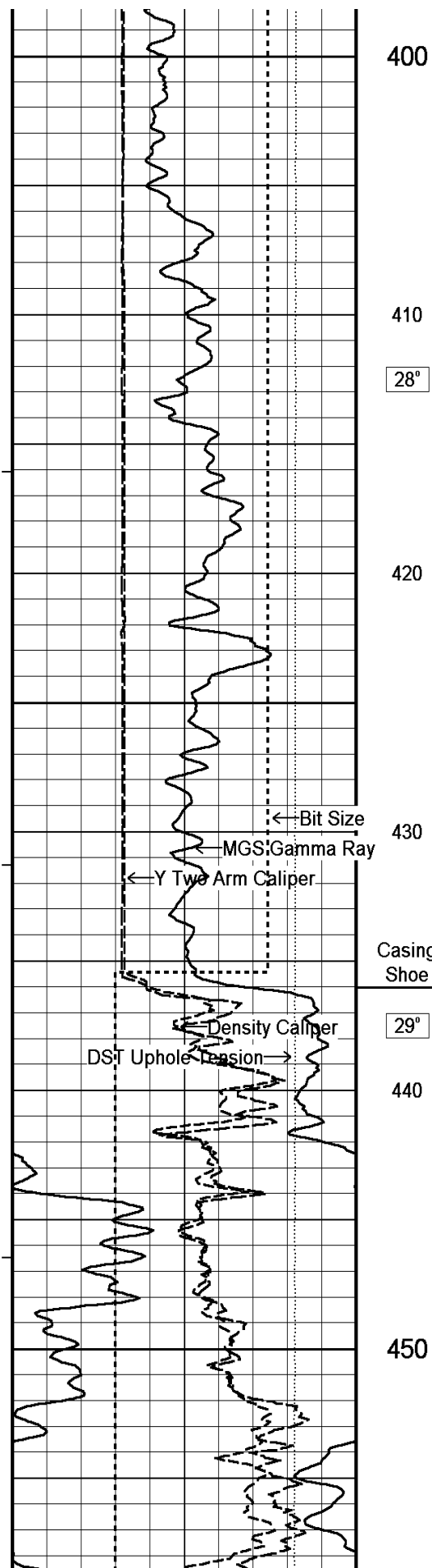
Depth Based Data - Maximum Sampling Increment 10.0cm
Filename: C:\Temp\Weatherford PreView\0\L-29 SPLICE_MAIN.dta
System Versions: Processed with 7.02.0251 Plotted with 8.01.0091

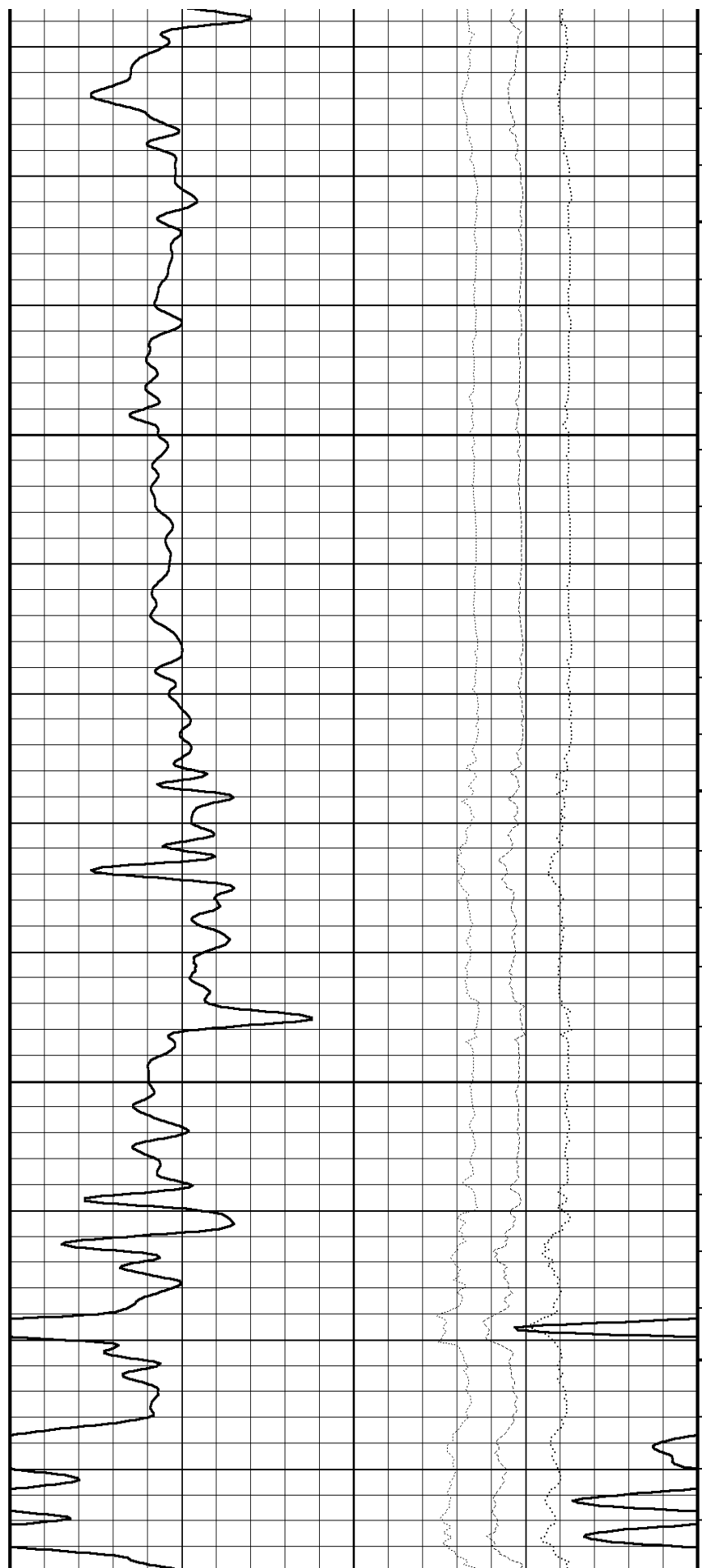
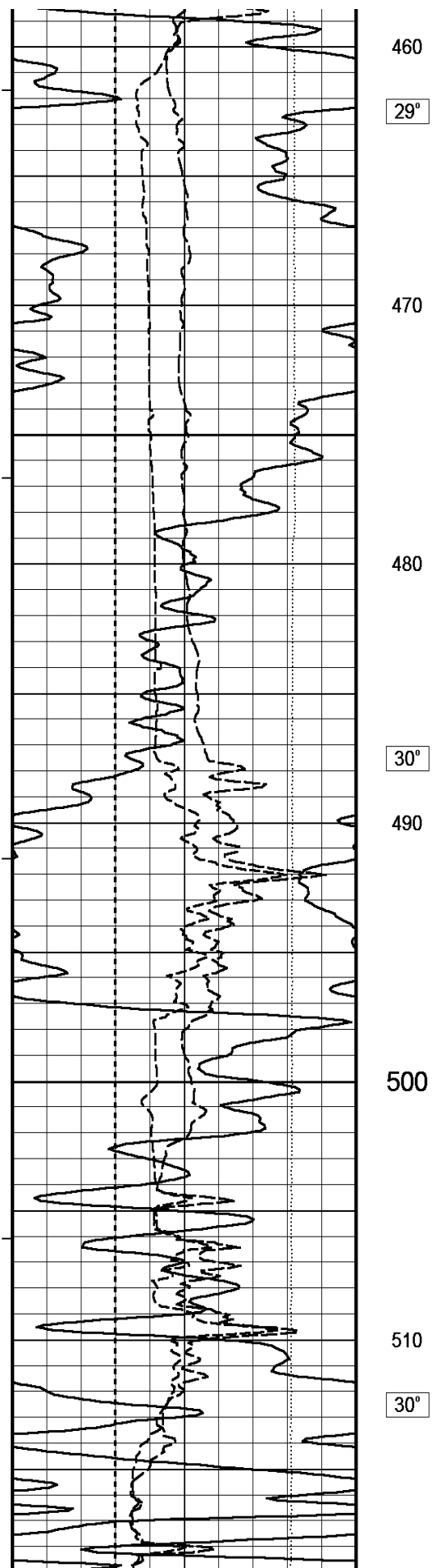
Plotted on 07-NOV-2007 11:19
Recorded on 06-FEB-2007 04:23

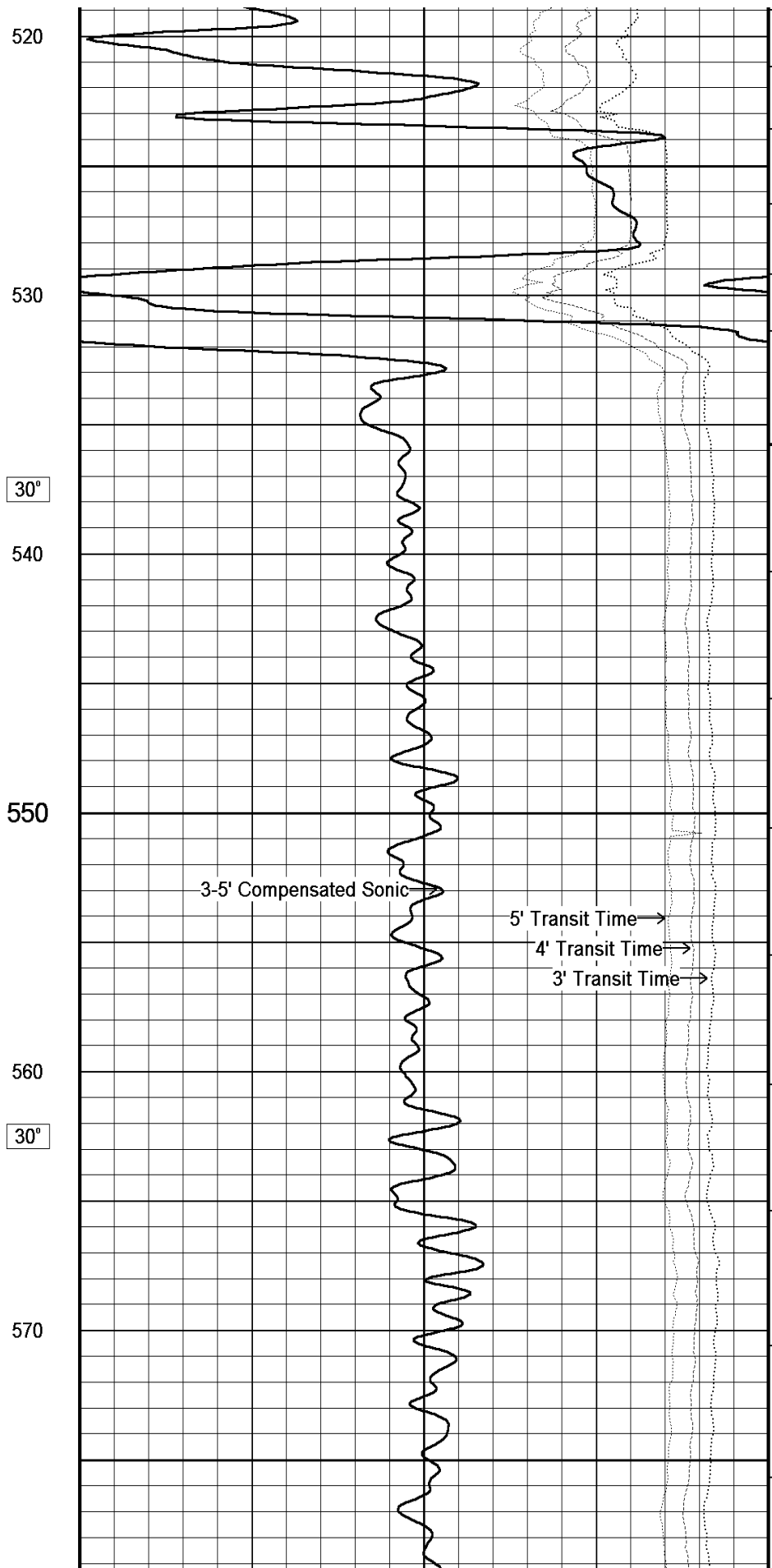
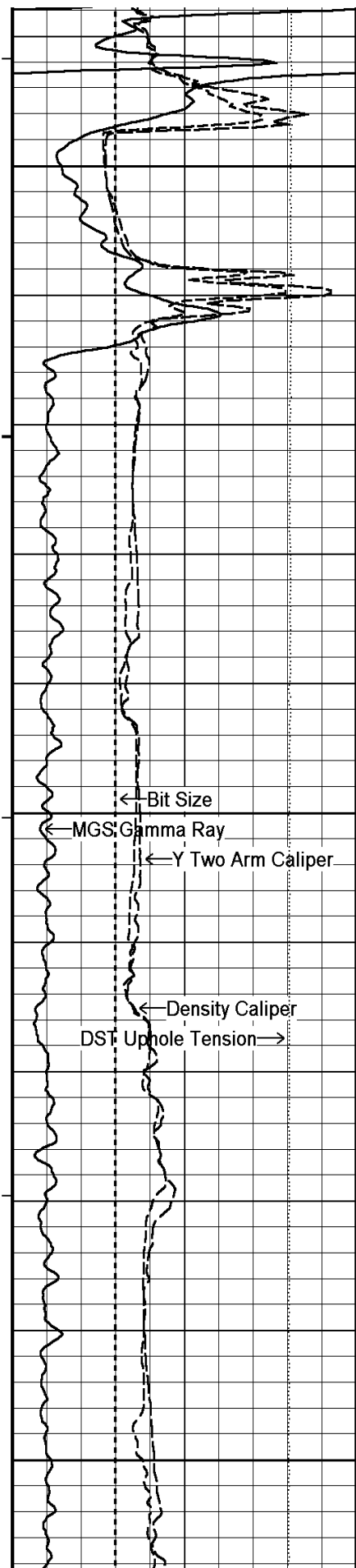
↑ MAIN LOG 1:600 ↑

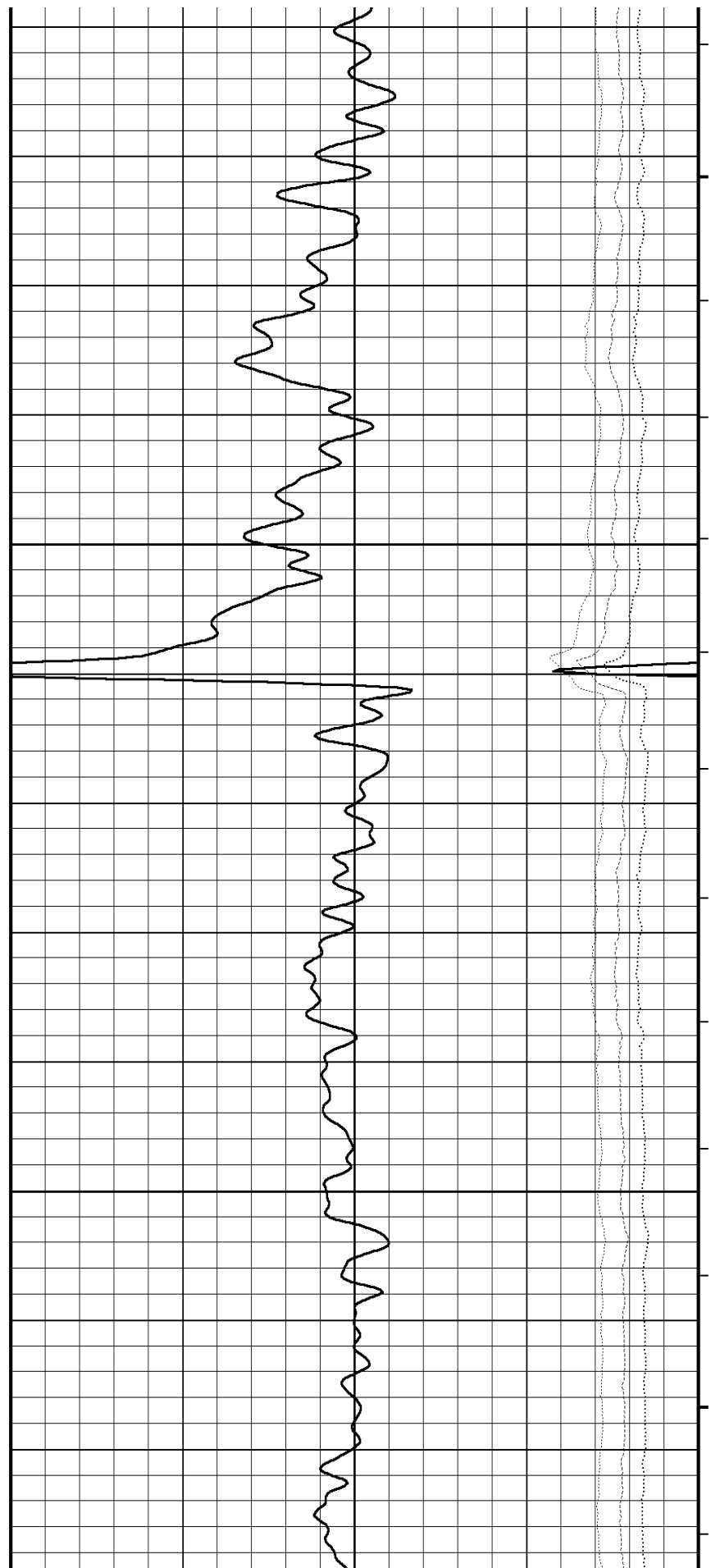
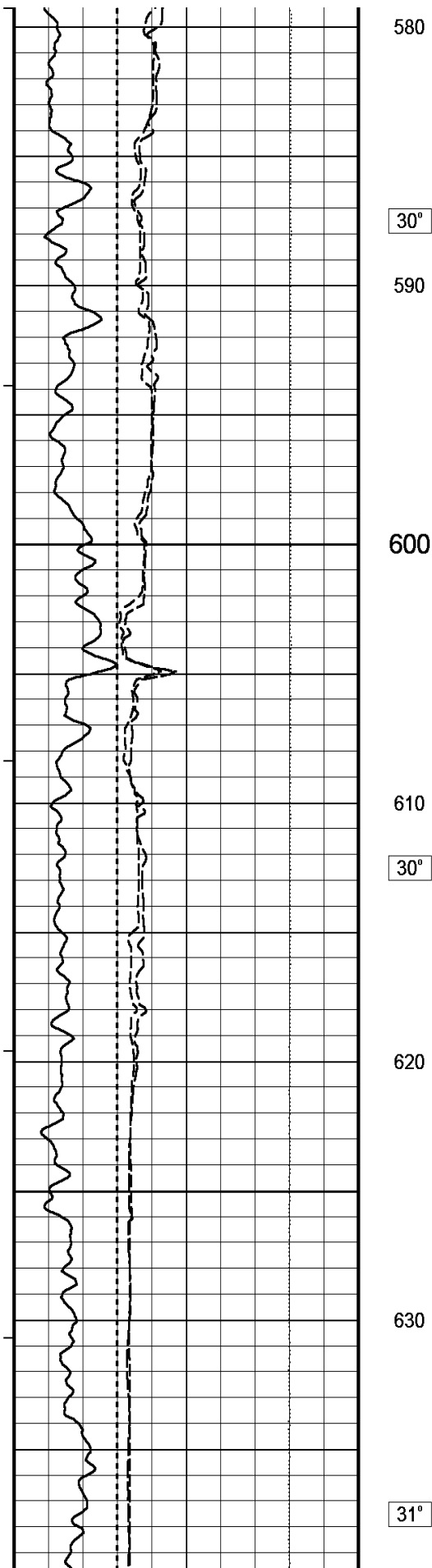
↓ MAIN LOG 1:240 ↓

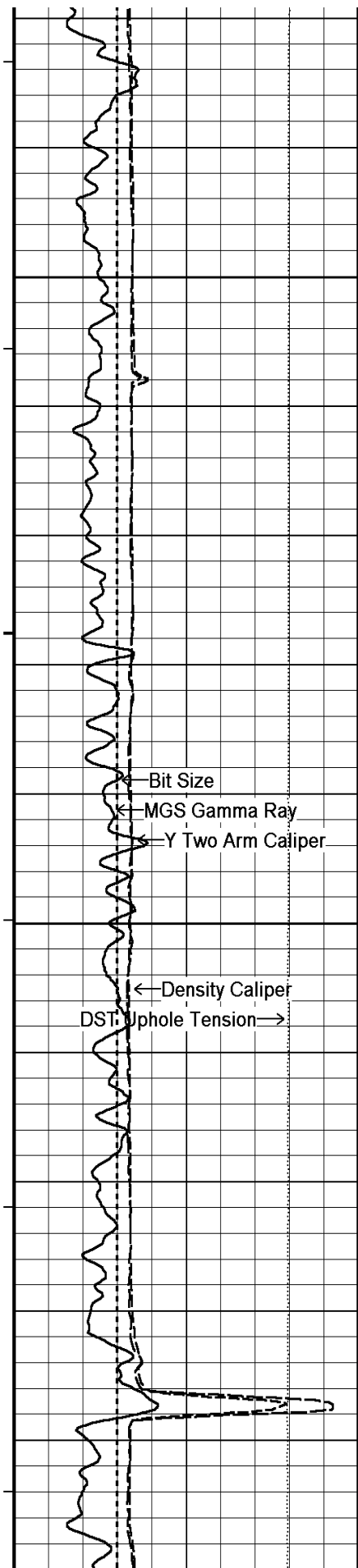












640

650

660

31°

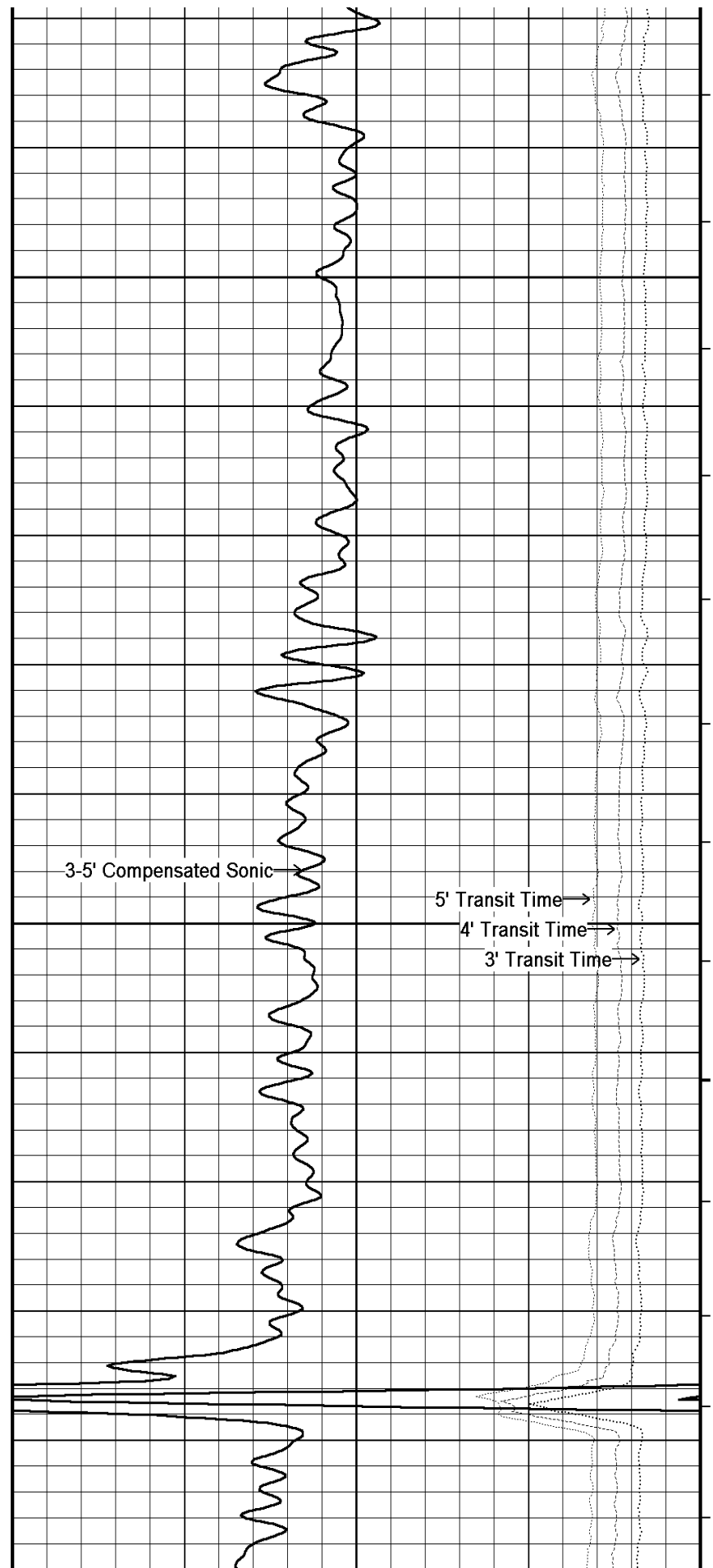
670

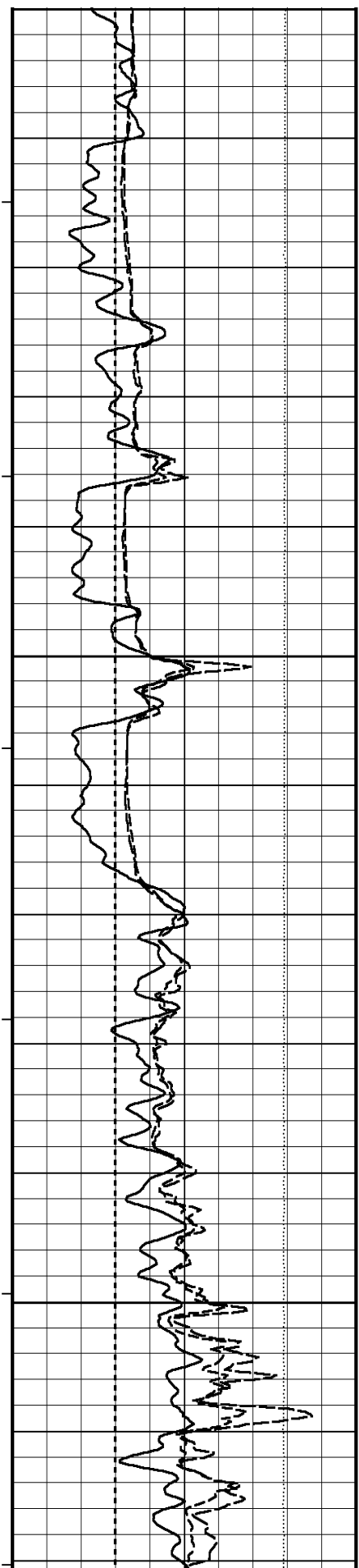
680

32°

690

700





700

710

32°

720

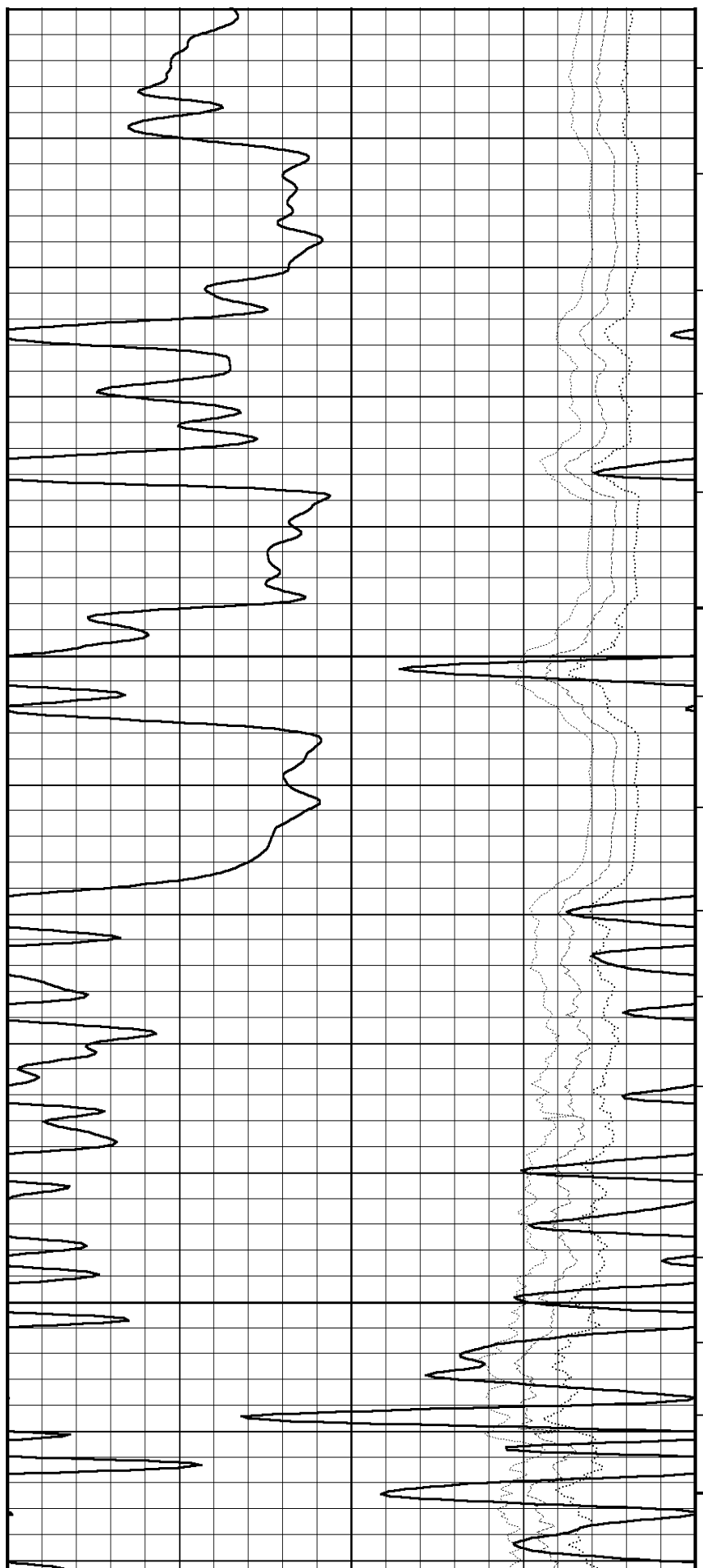
730

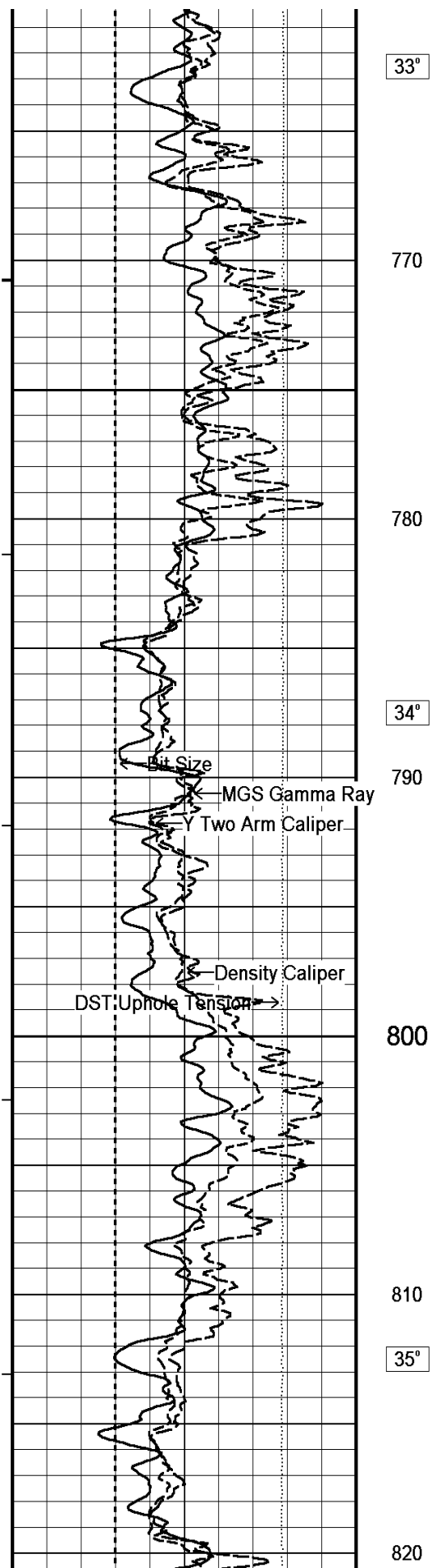
33°

740

750

760





33°

770

780

34°

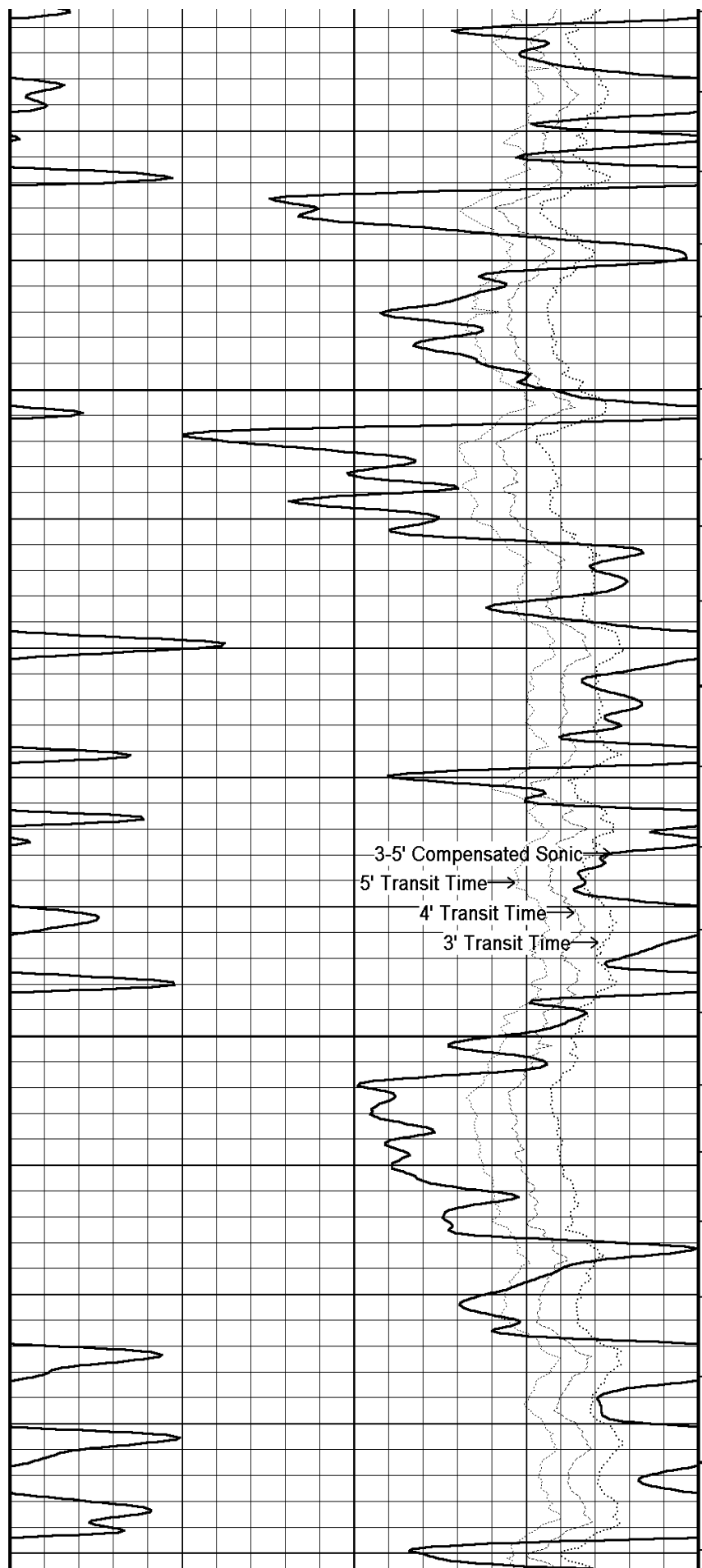
790

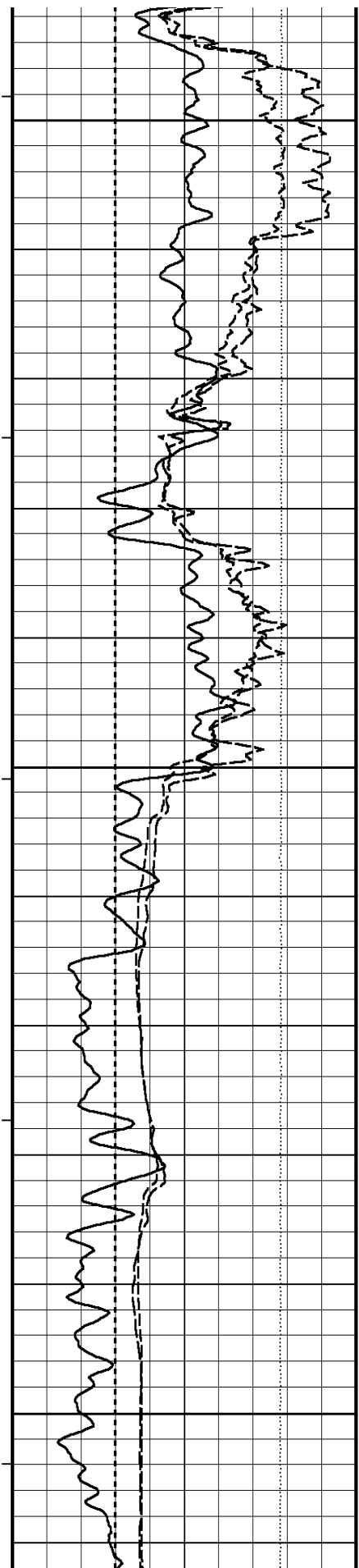
800

810

35°

820





830

35°

840

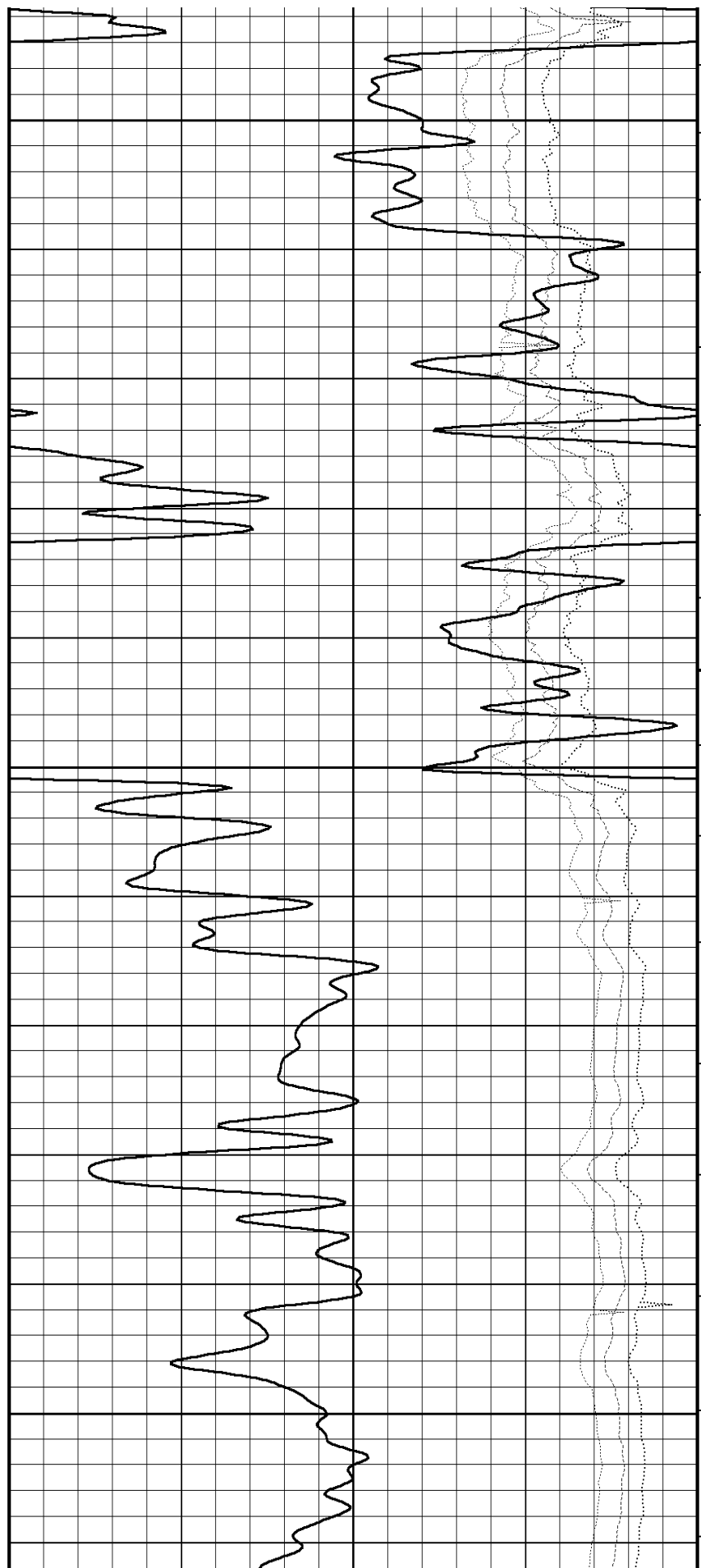
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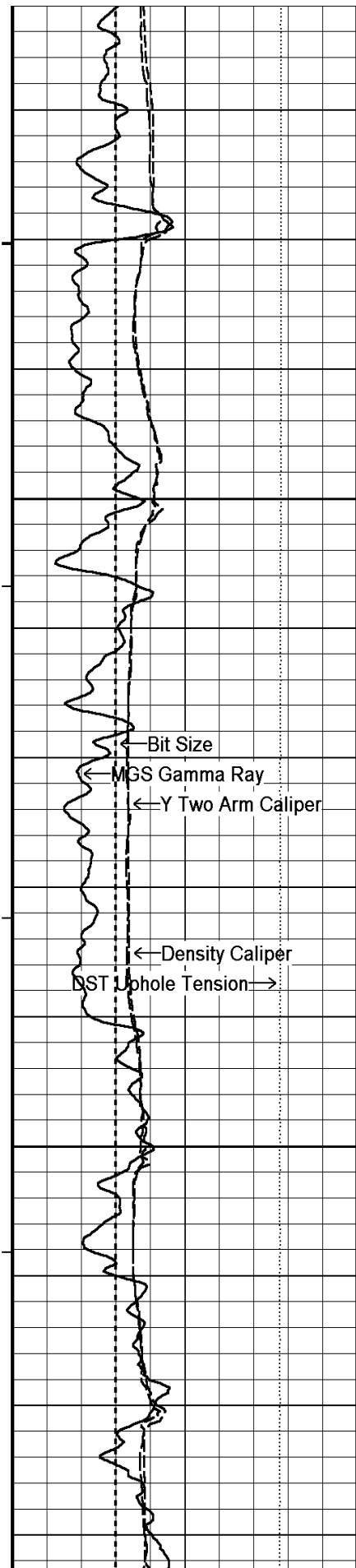
860

35°

870

880





35°

890

900

910

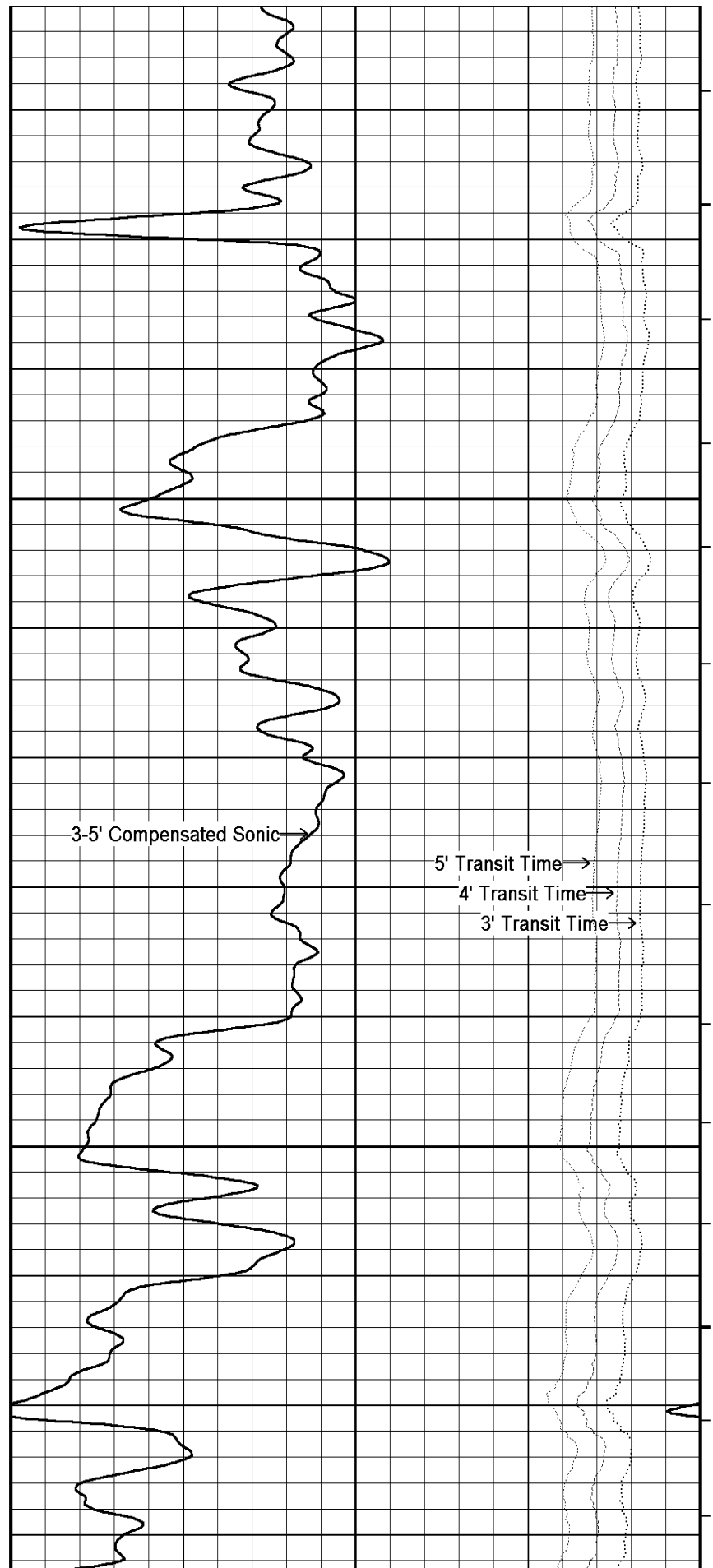
36°

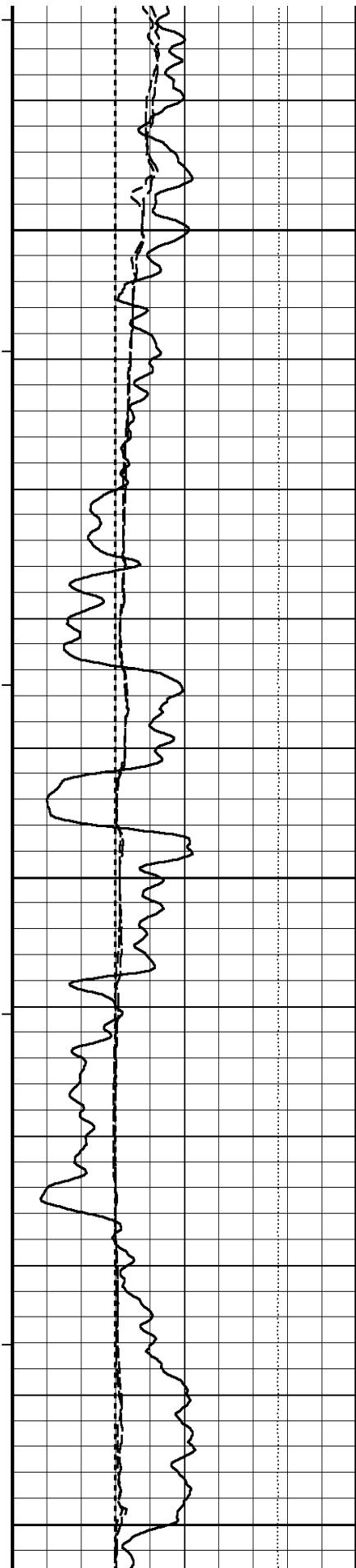
920

930

36°

940





950

960

36°

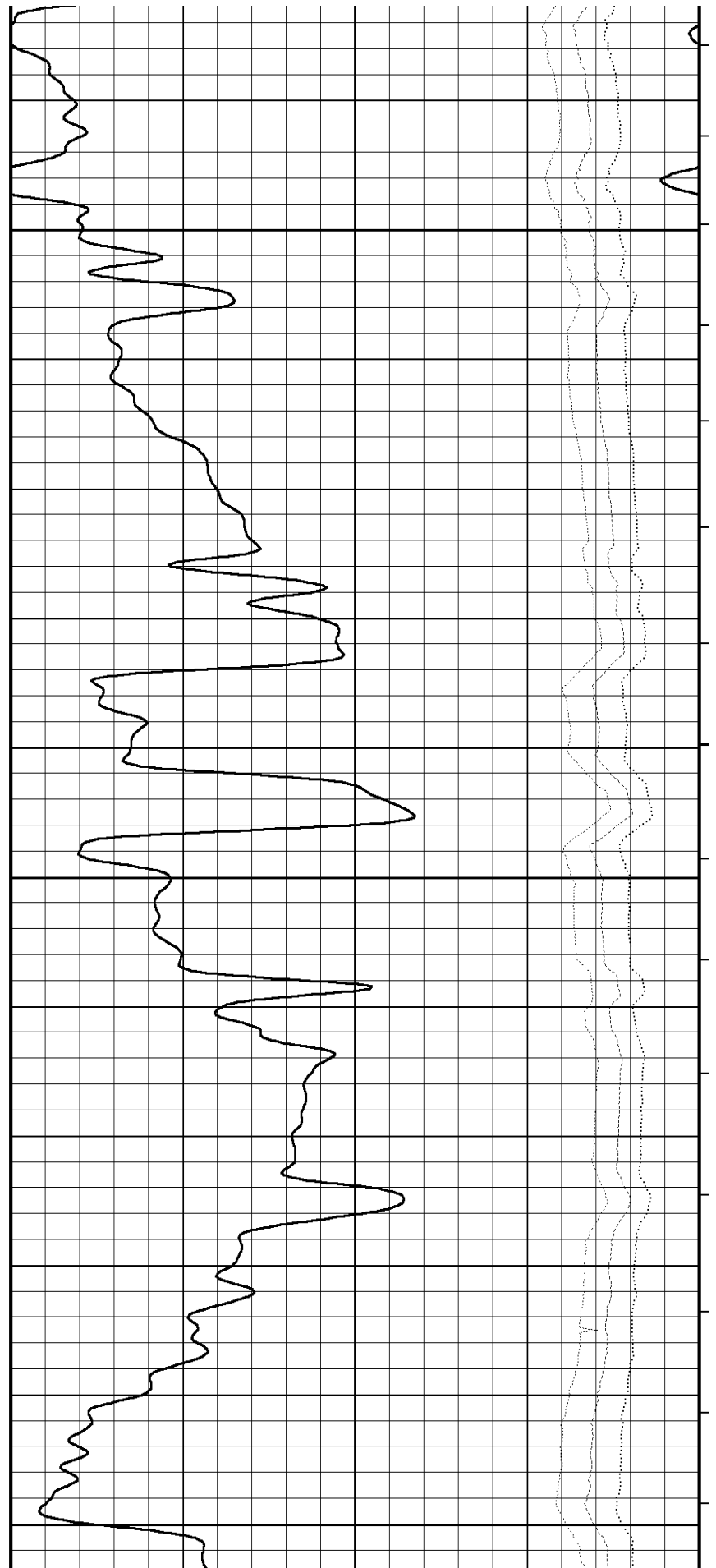
970

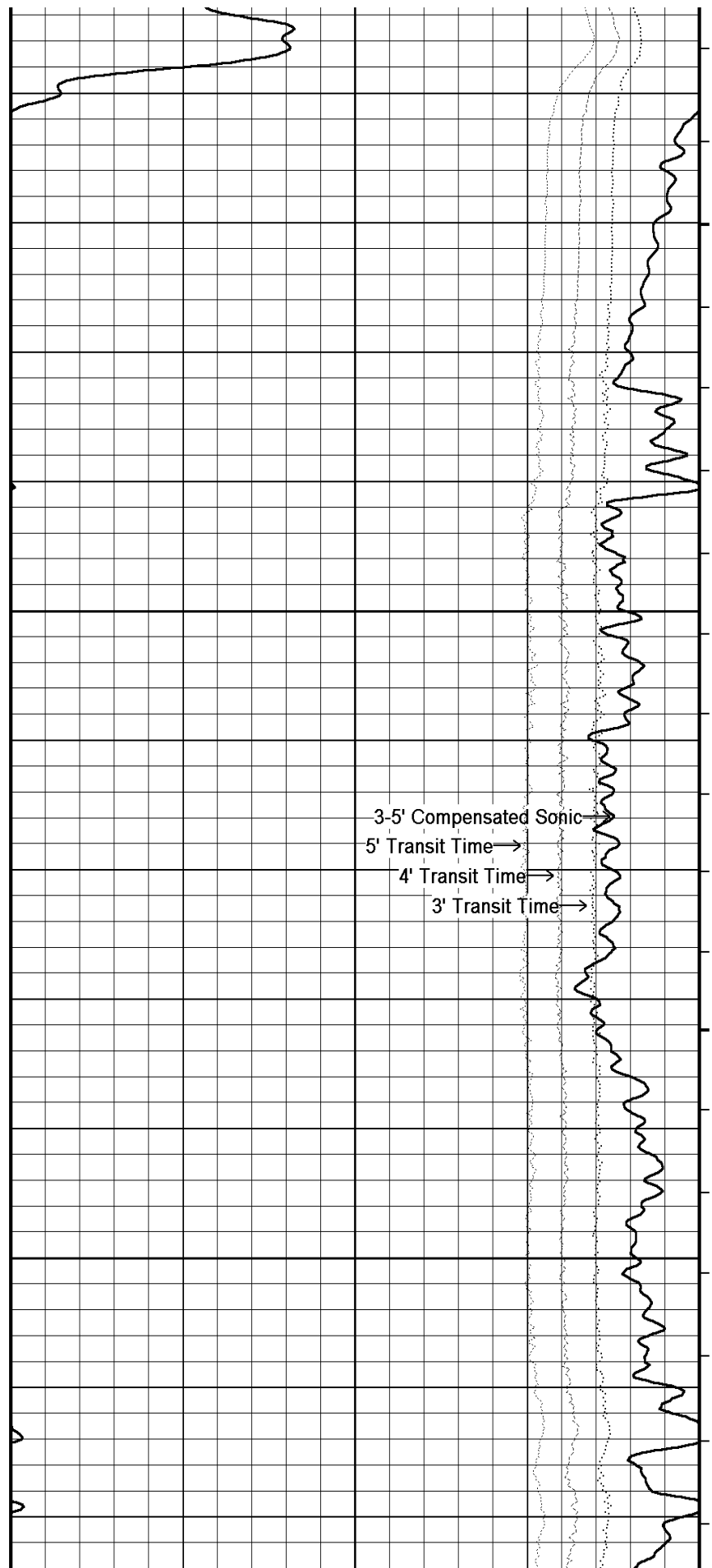
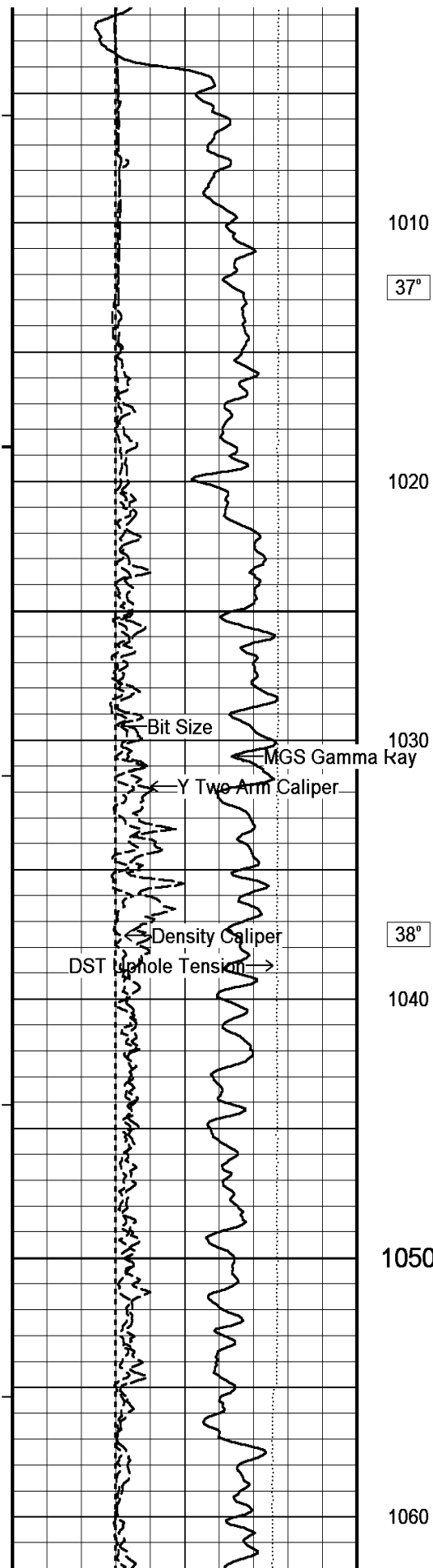
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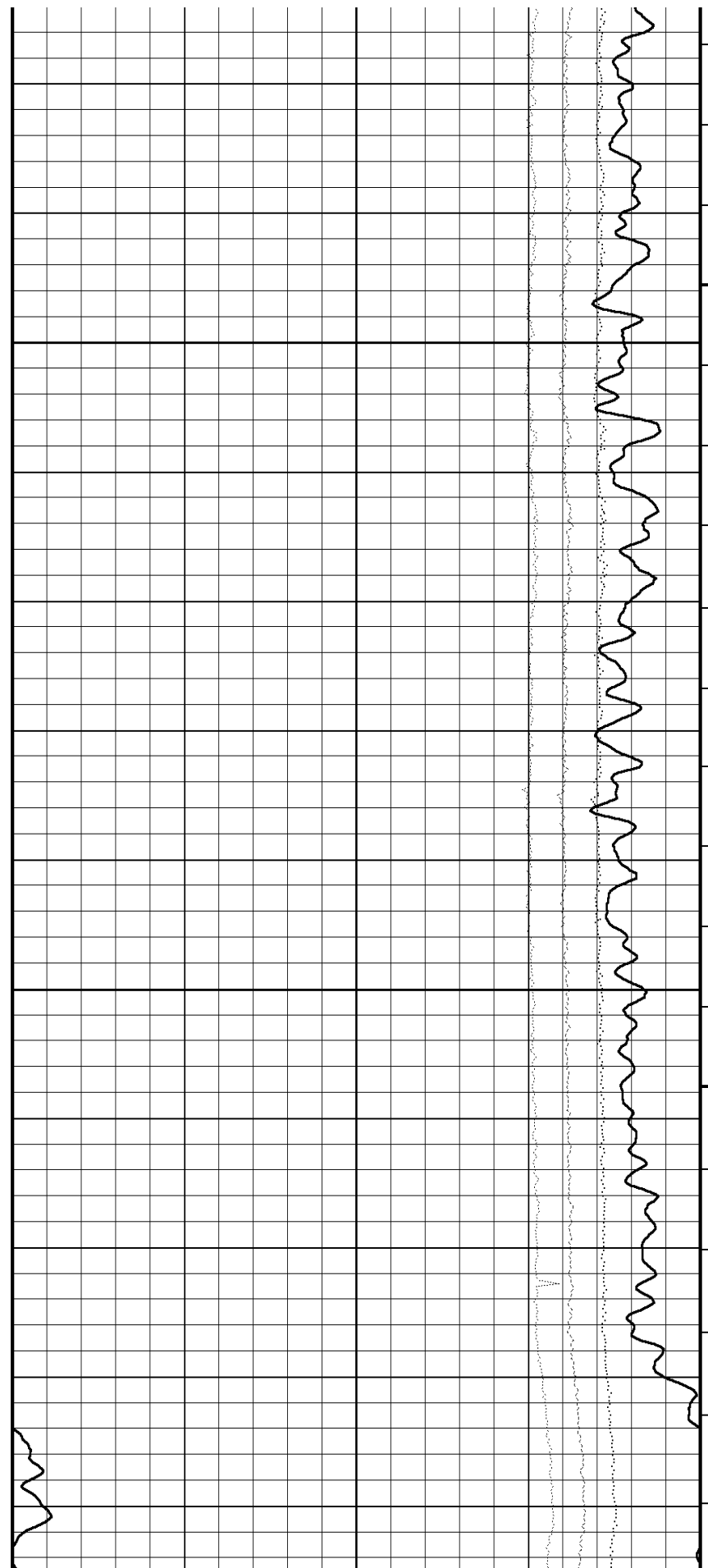
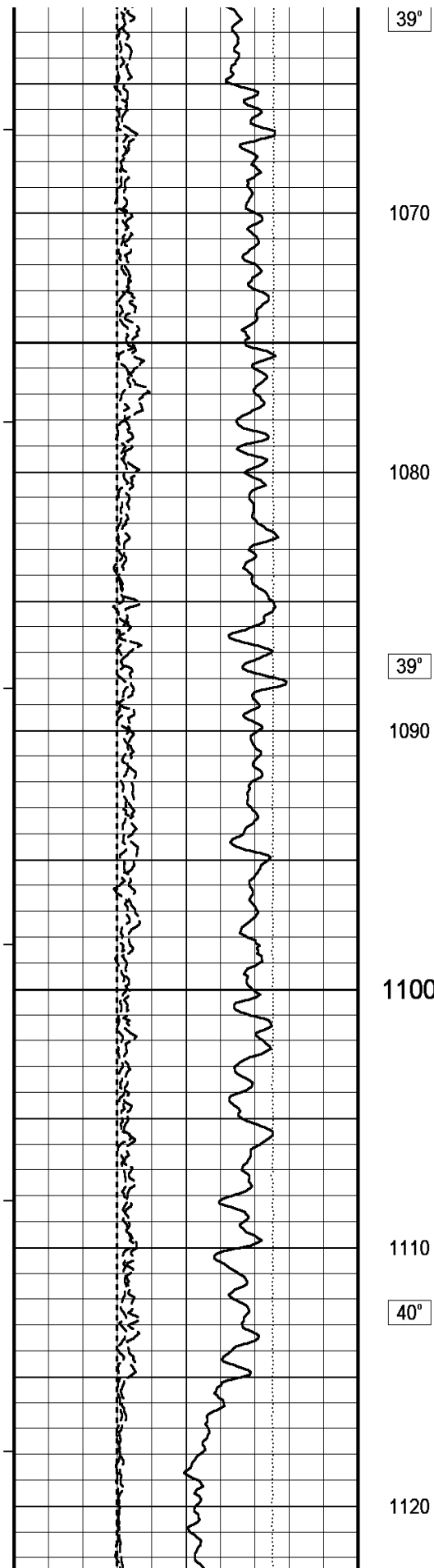
37°

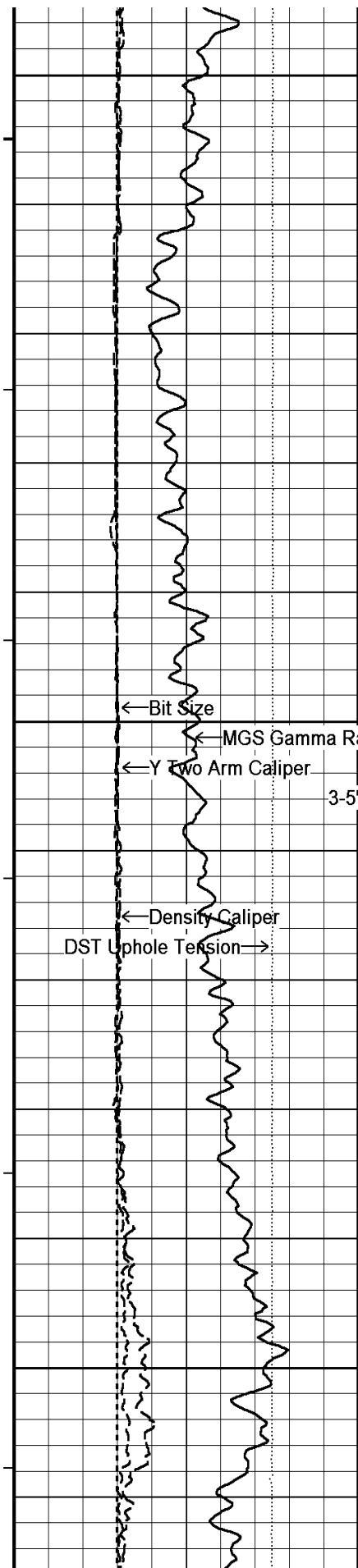
990

1000









1130

40°

1140

1150

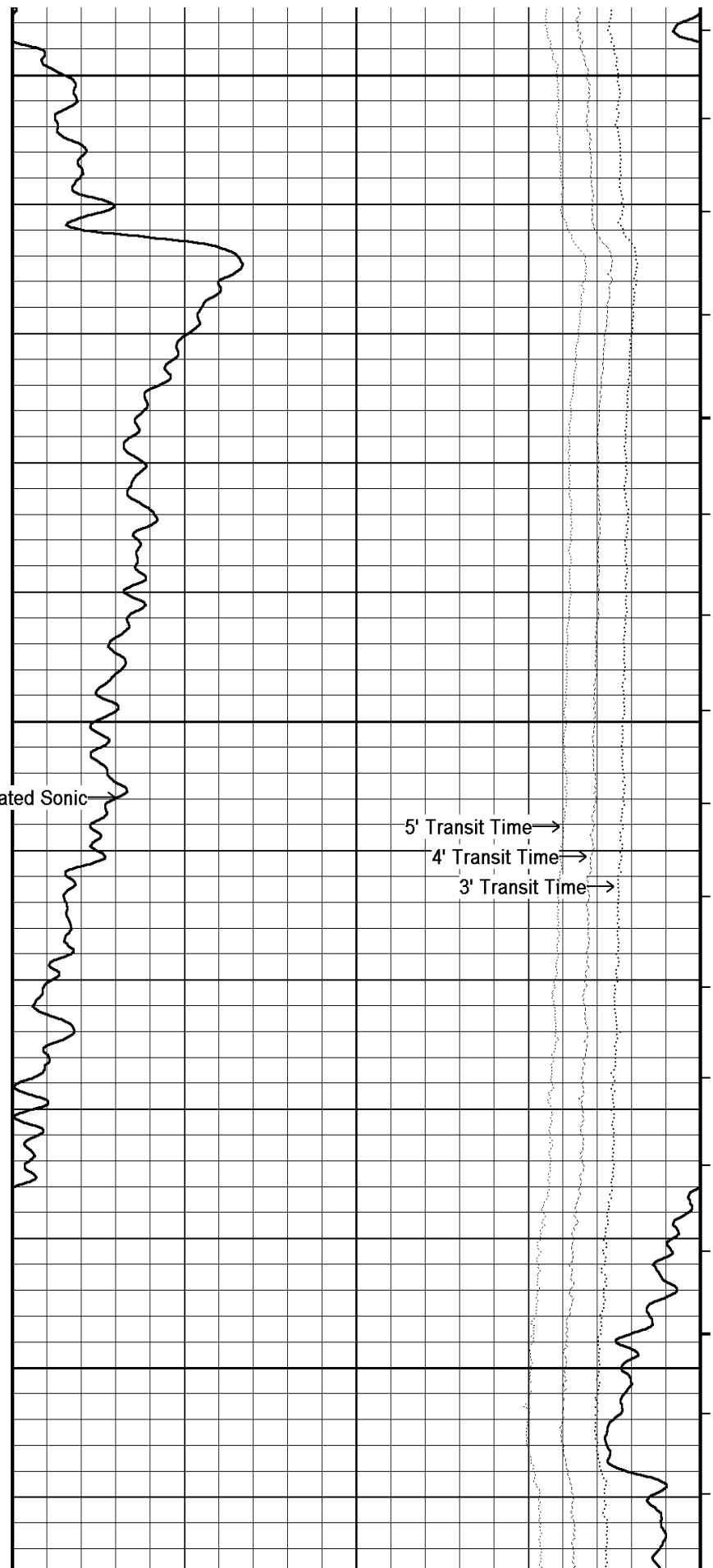
3-5' Compensated Sonic

1160

41°

1170

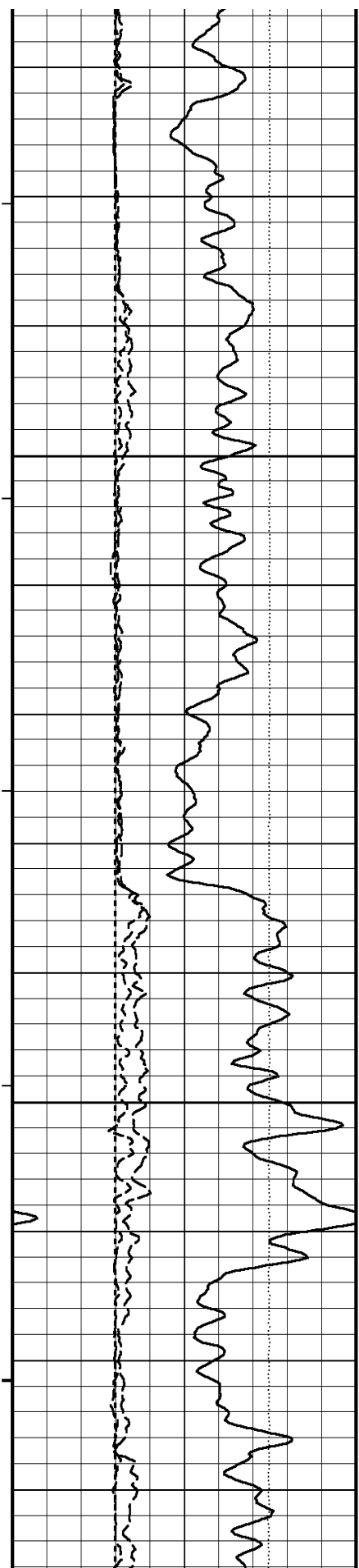
1180



5' Transit Time →

4' Transit Time →

3' Transit Time →



41°

1190

1200

1210

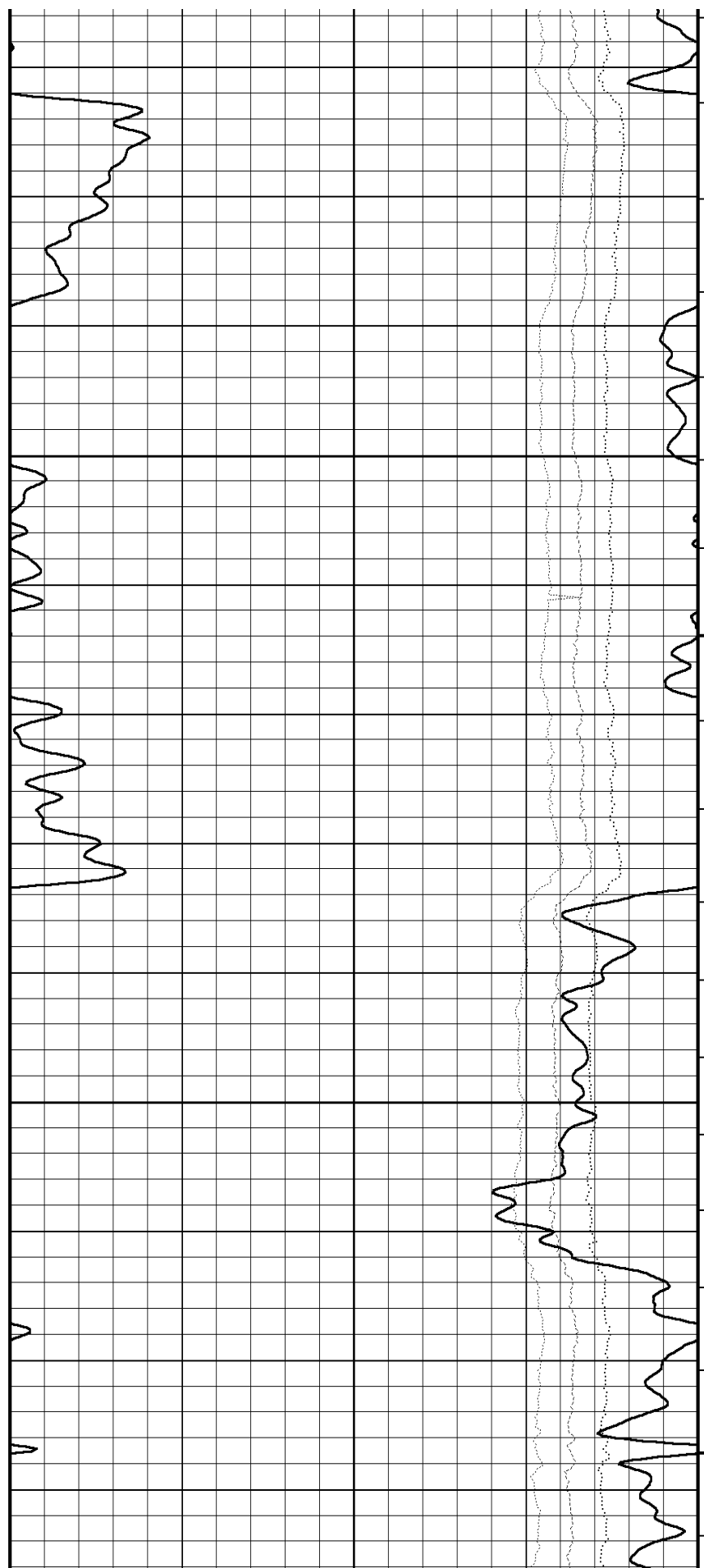
42°

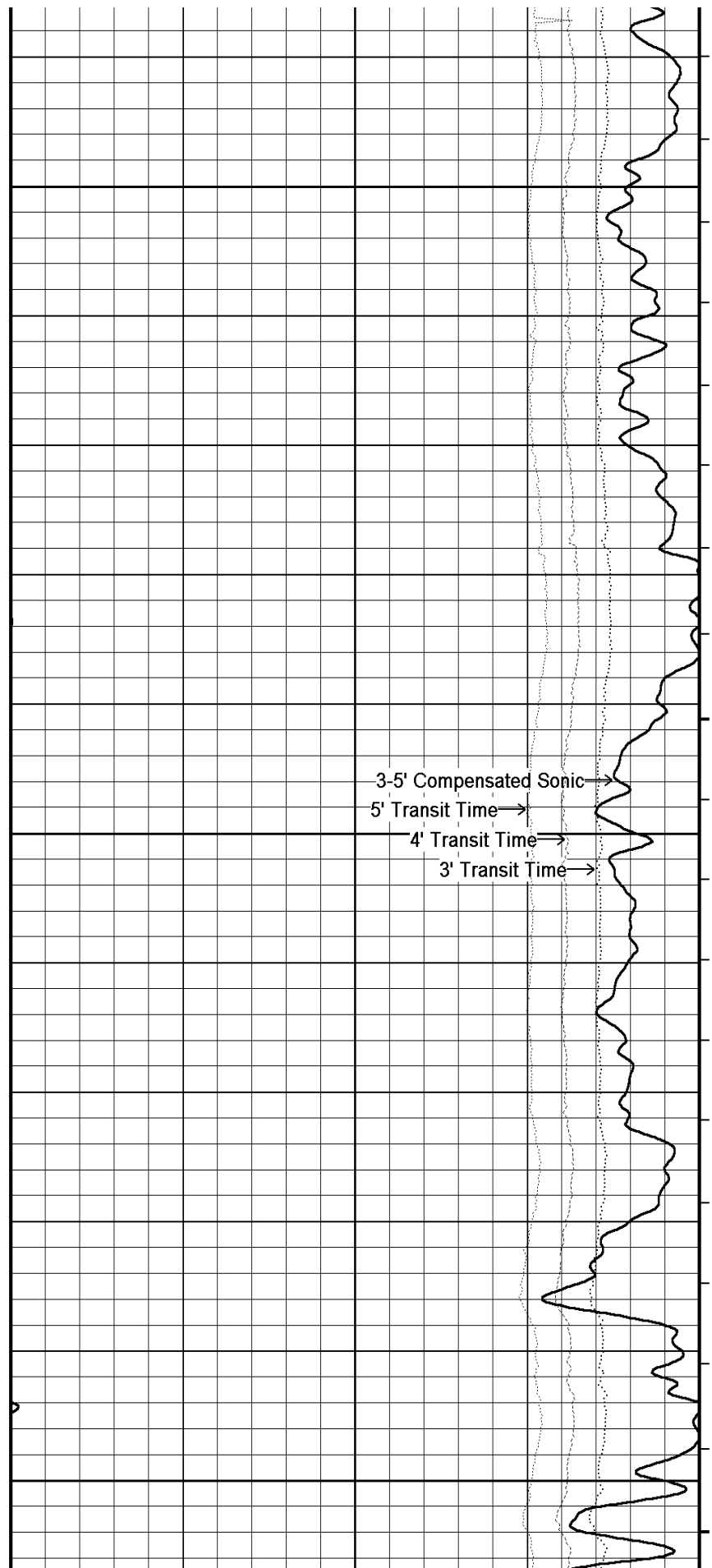
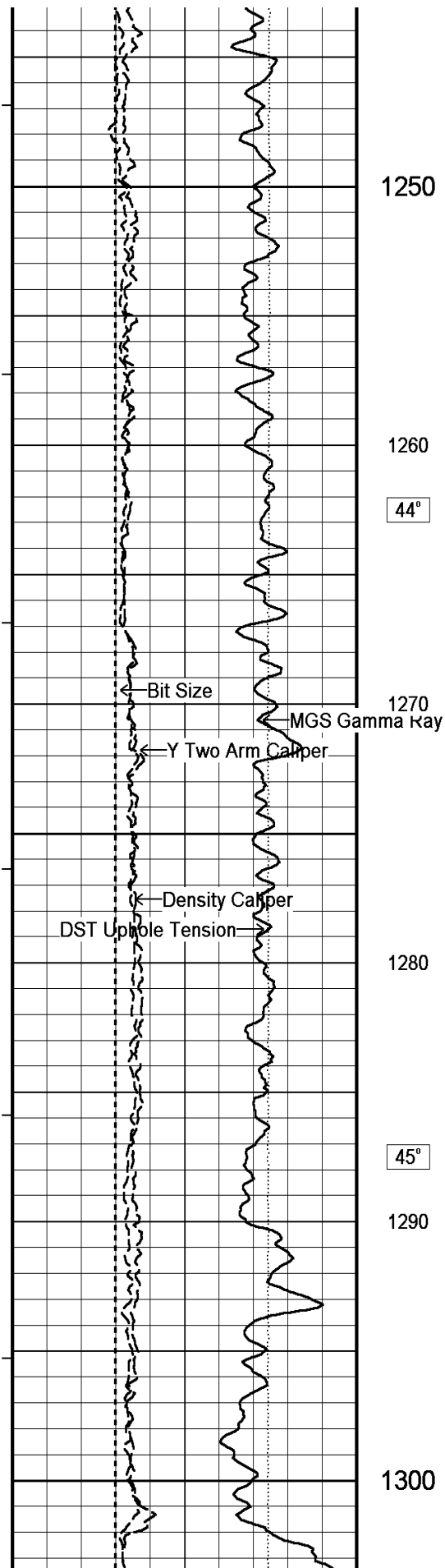
1220

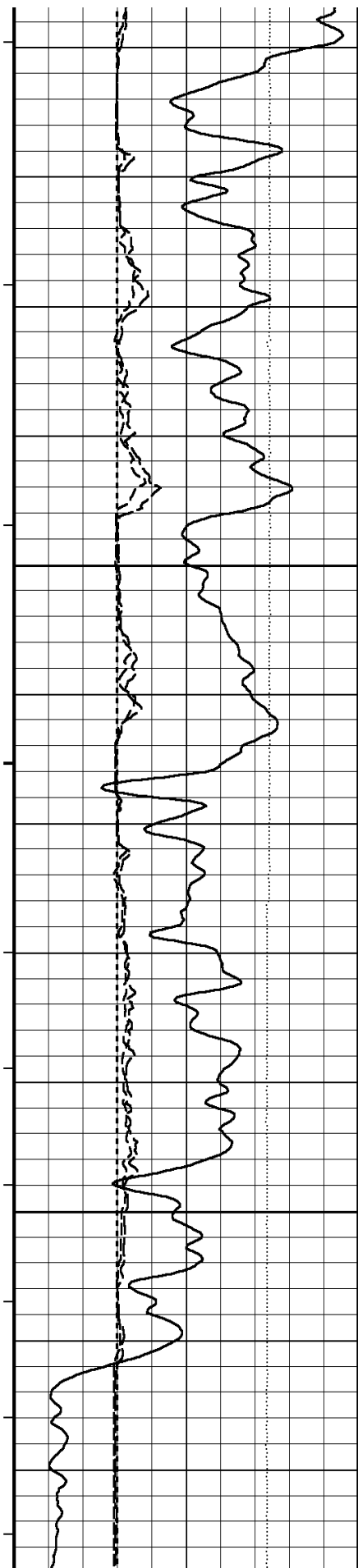
1230

43°

1240







1310

45°

1320

1330

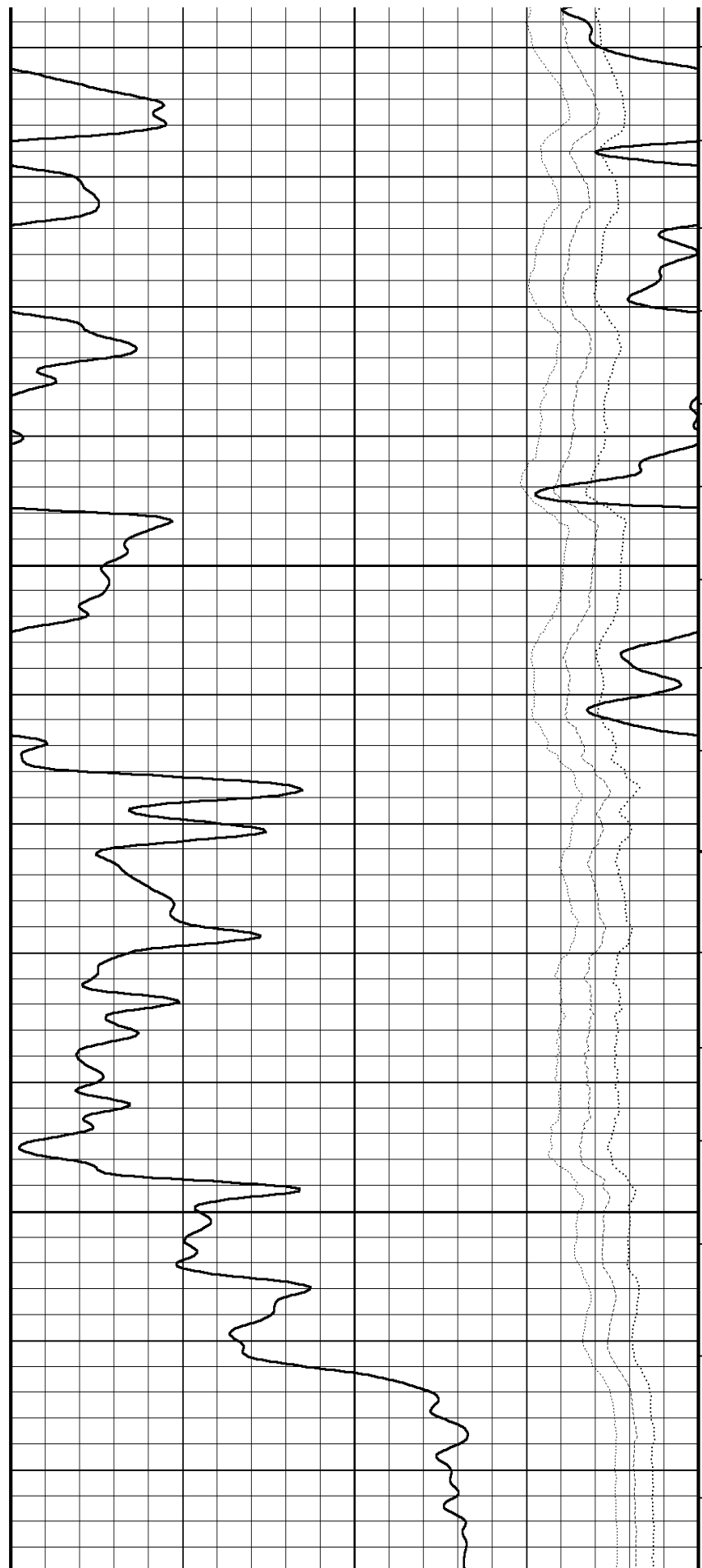
45°

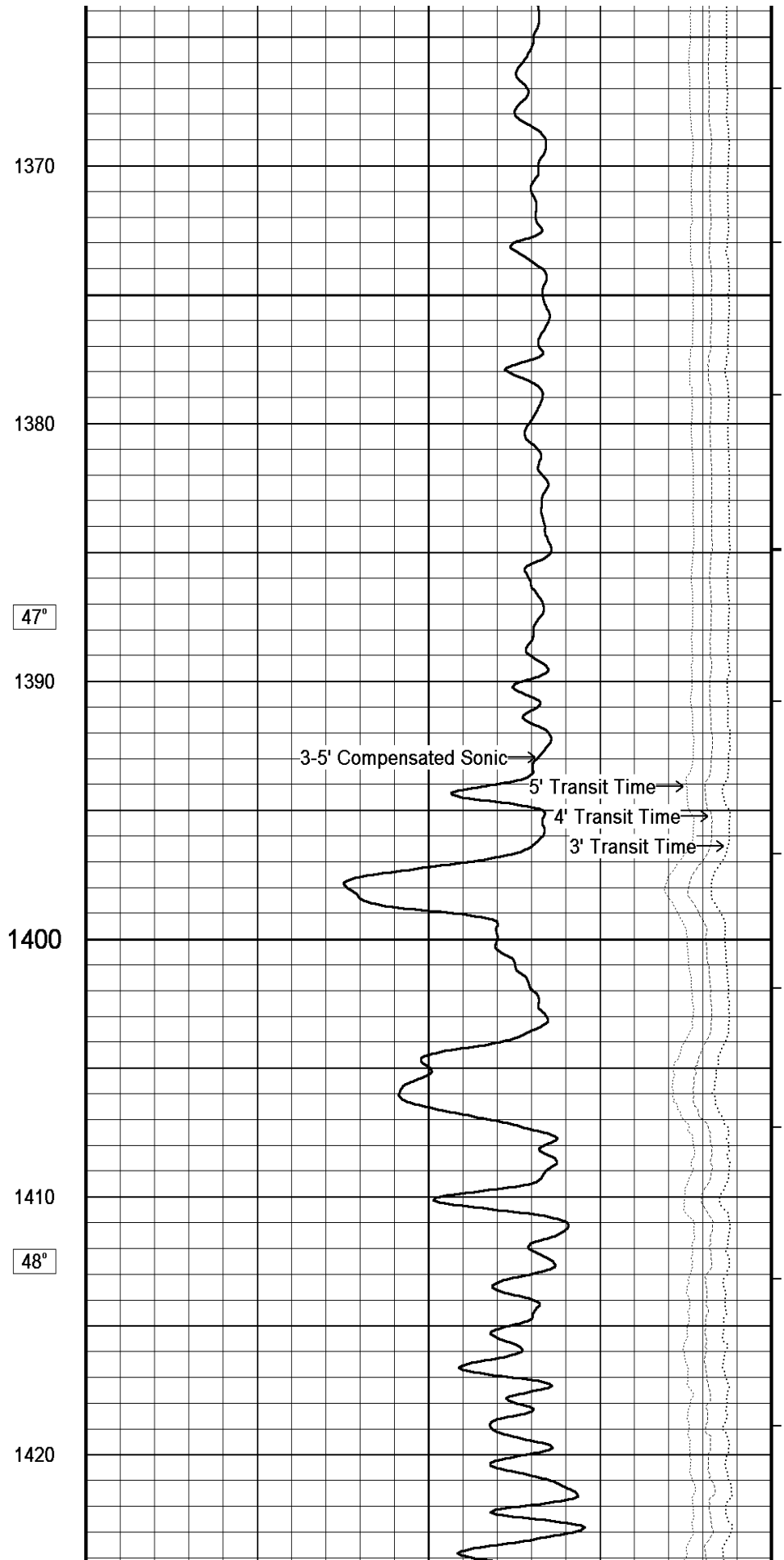
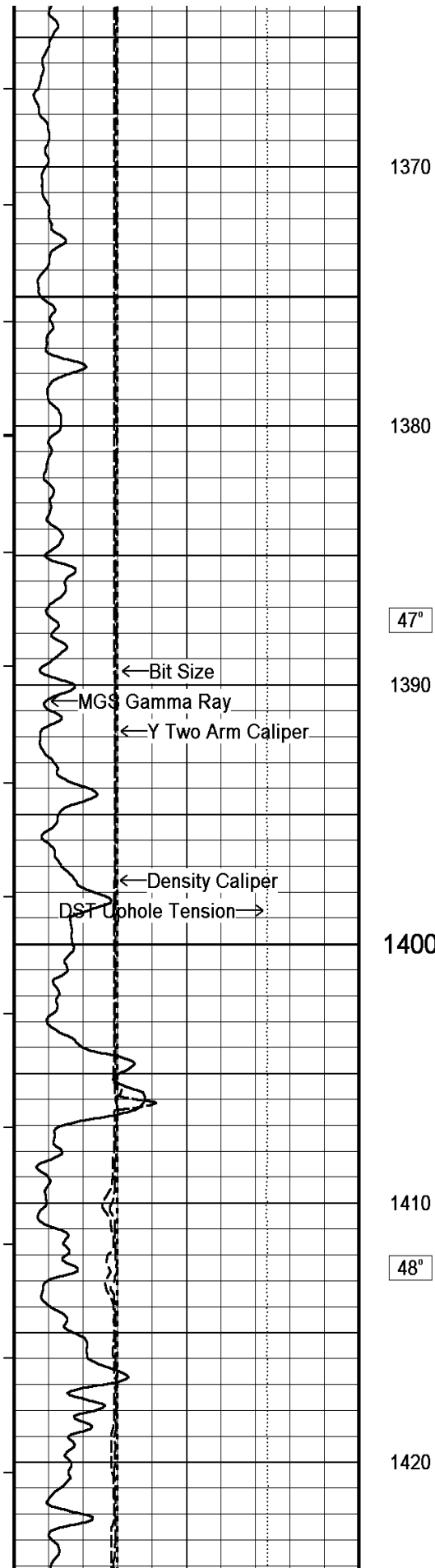
1340

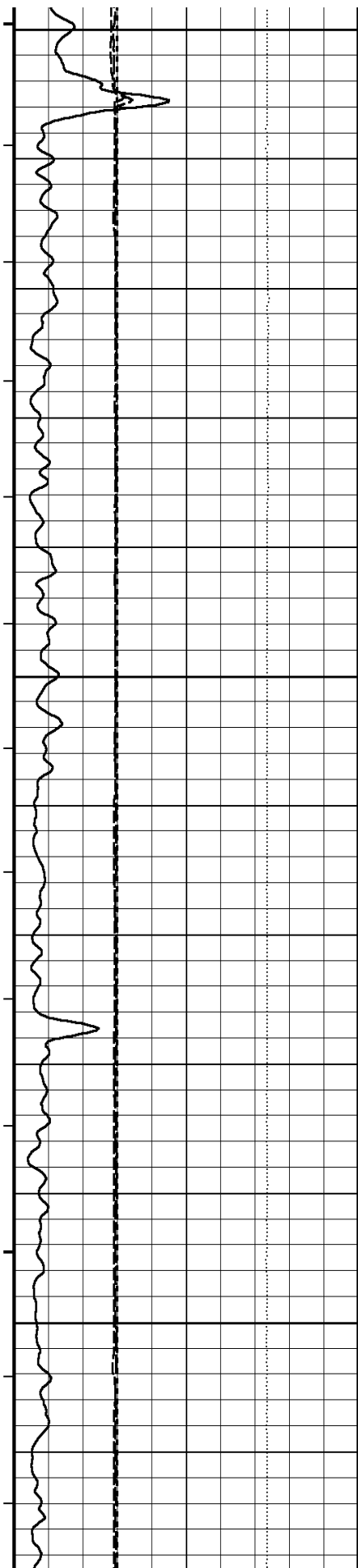
1350

1360

46°







1430

48°

1440

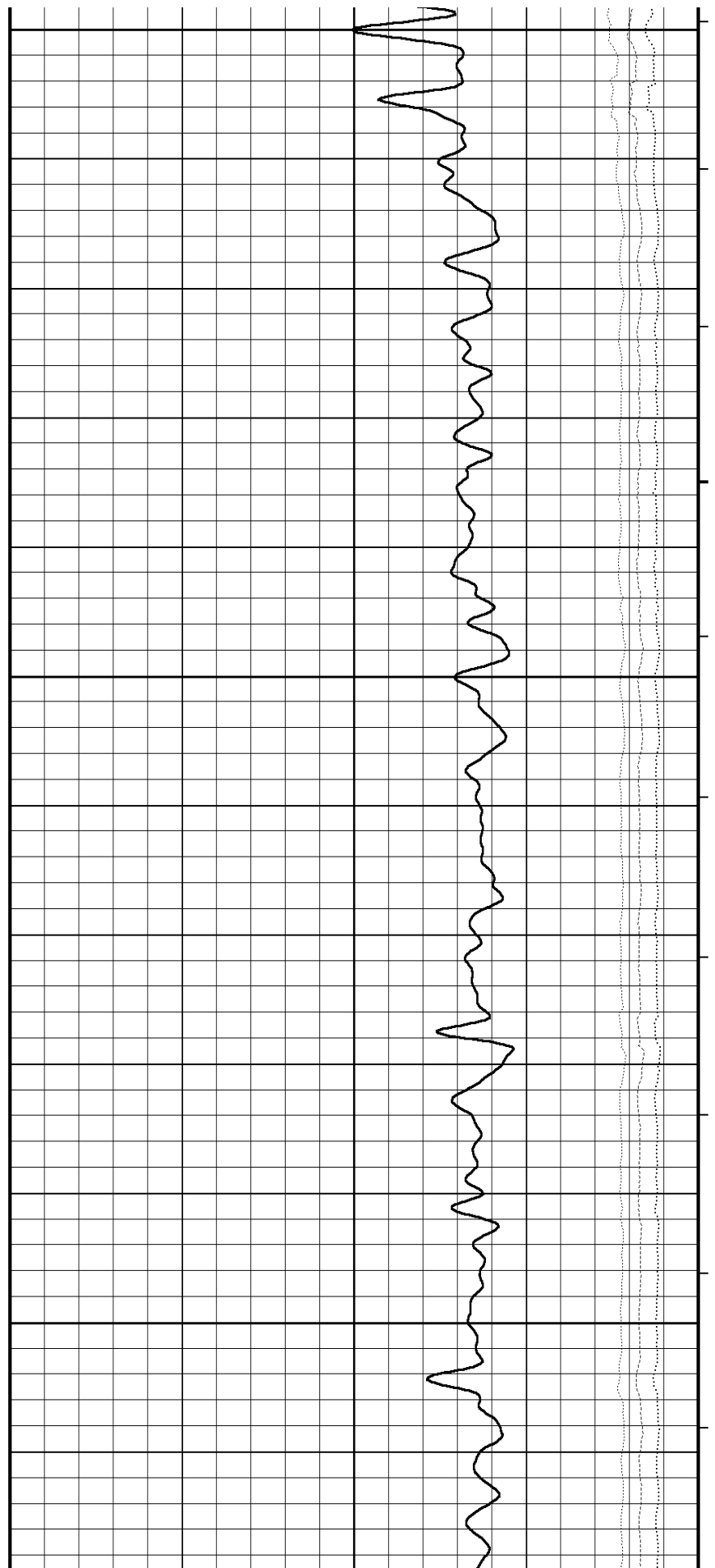
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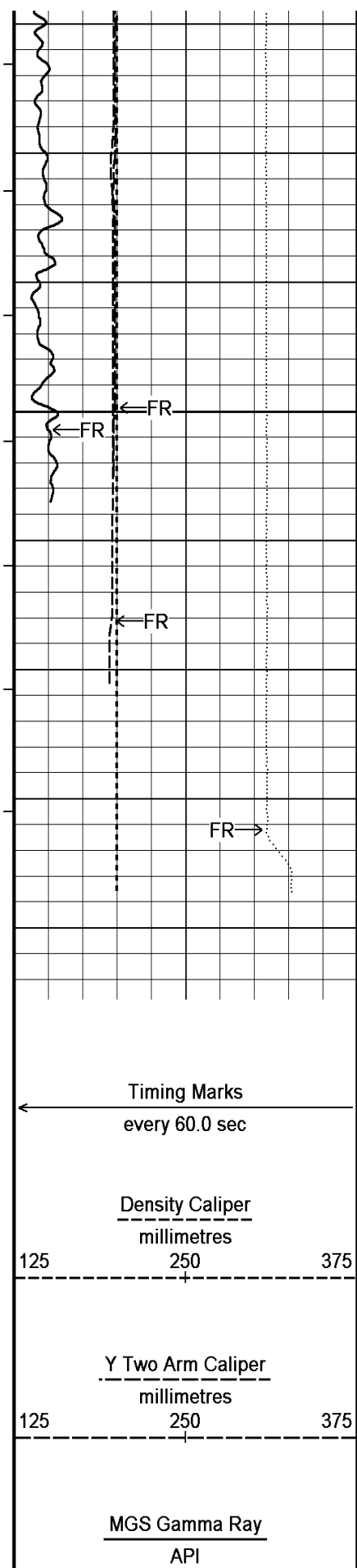
1460

49°

1470

1480





49°

1490

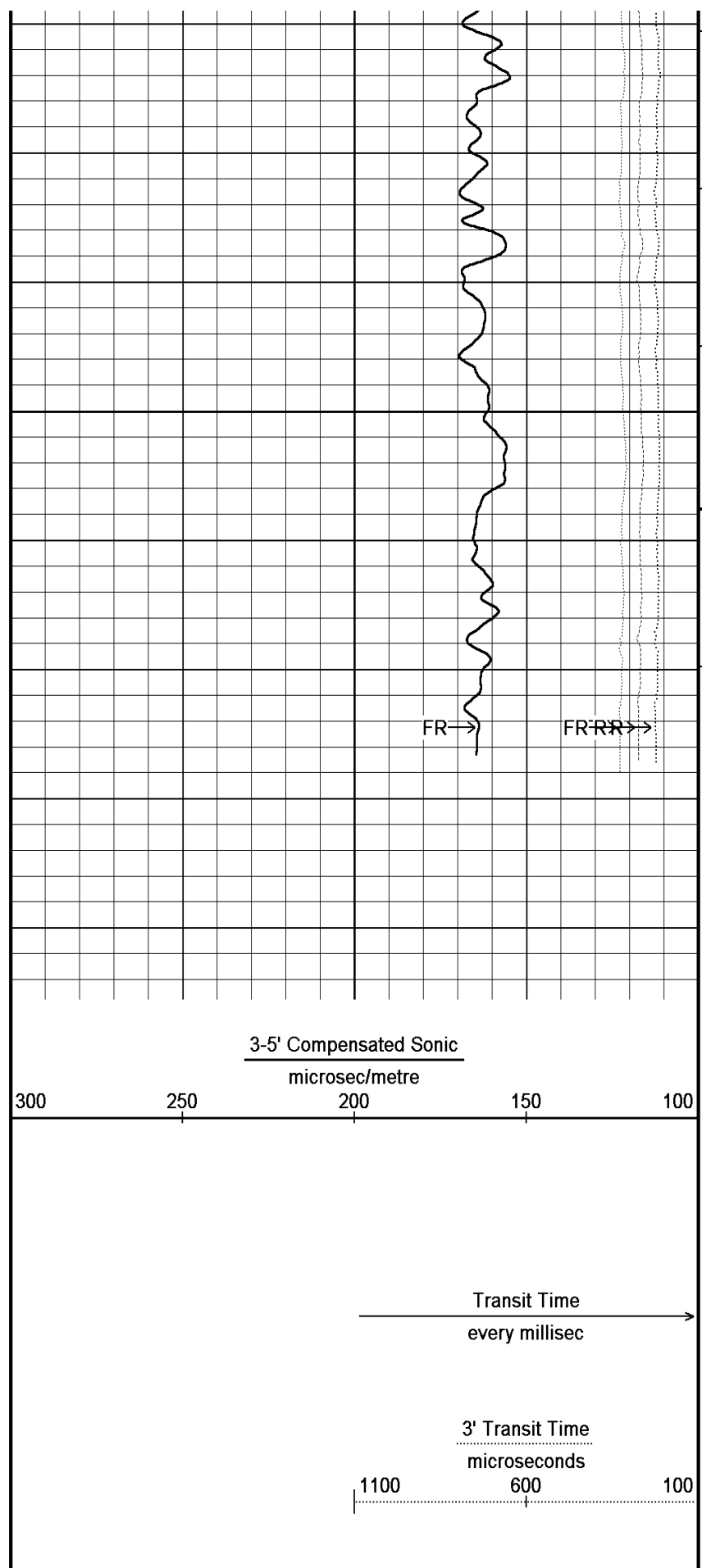
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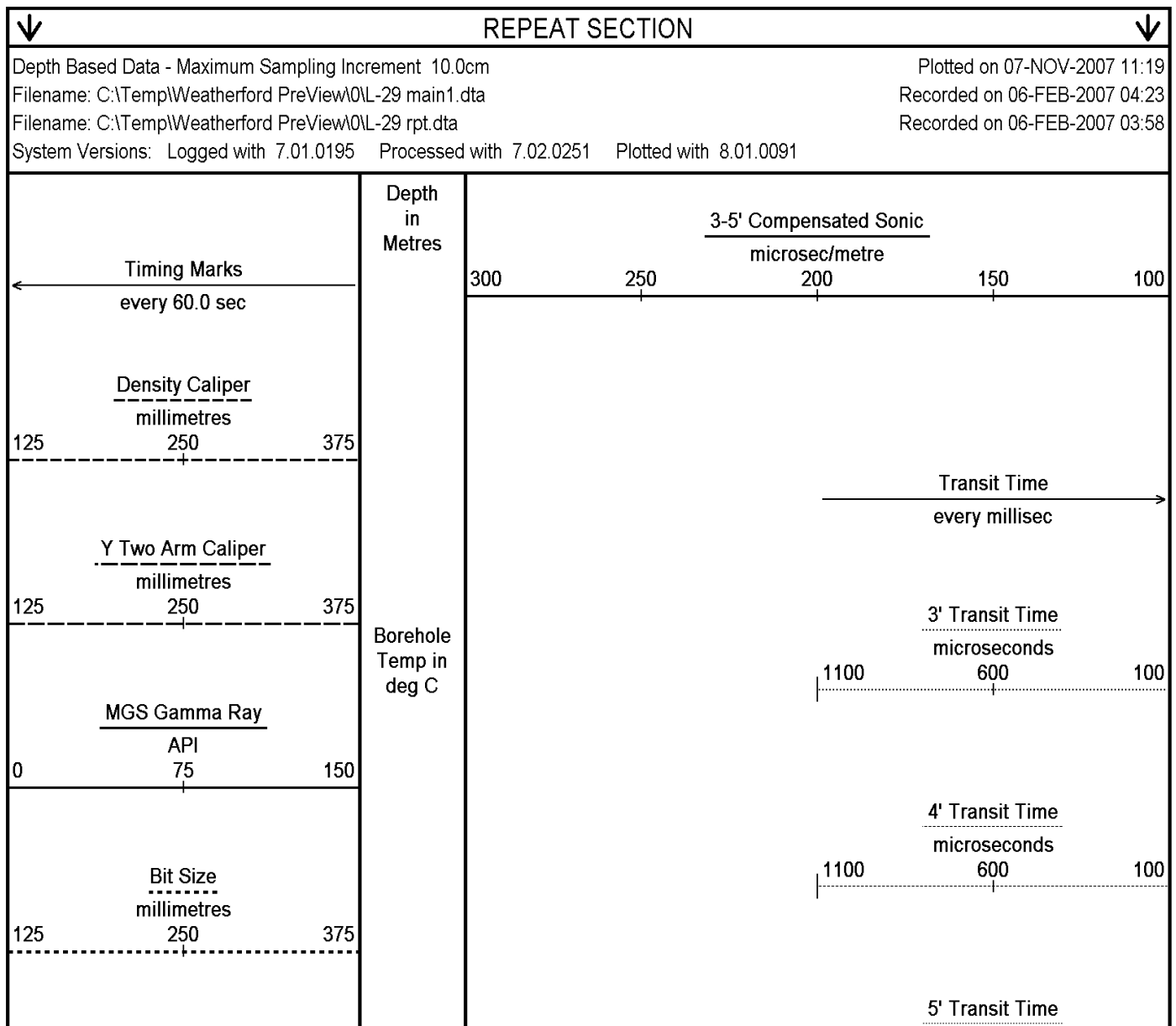
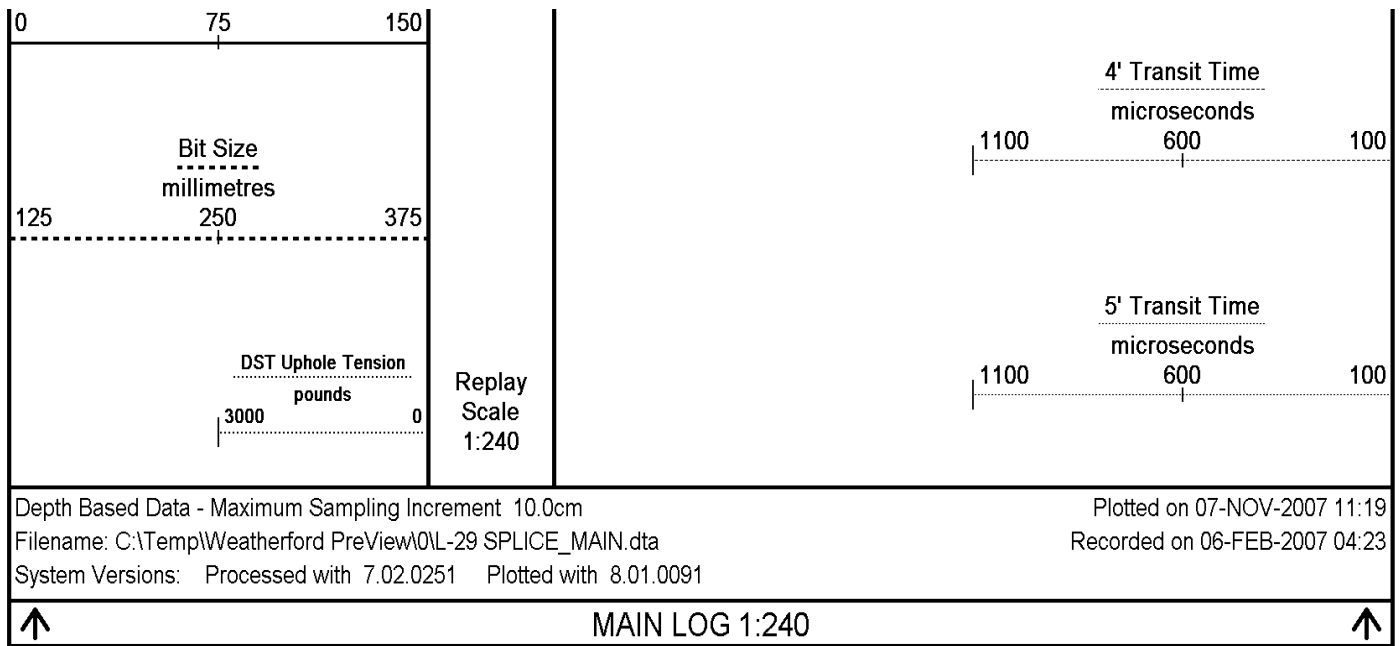
1510

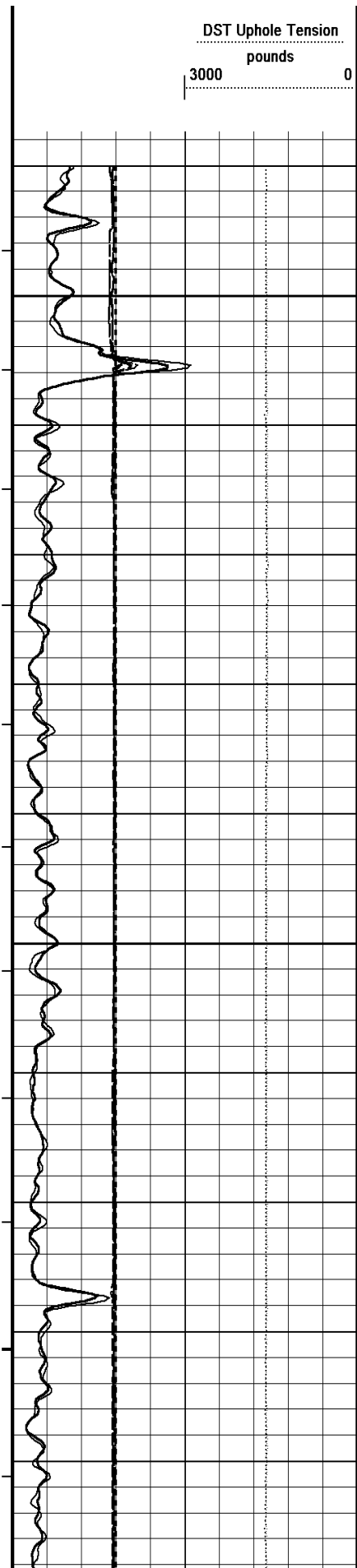
1520

Depth
in
Metres

Borehole
Temp in
deg C







Replay
Scale
1:240

1420

1430

48°

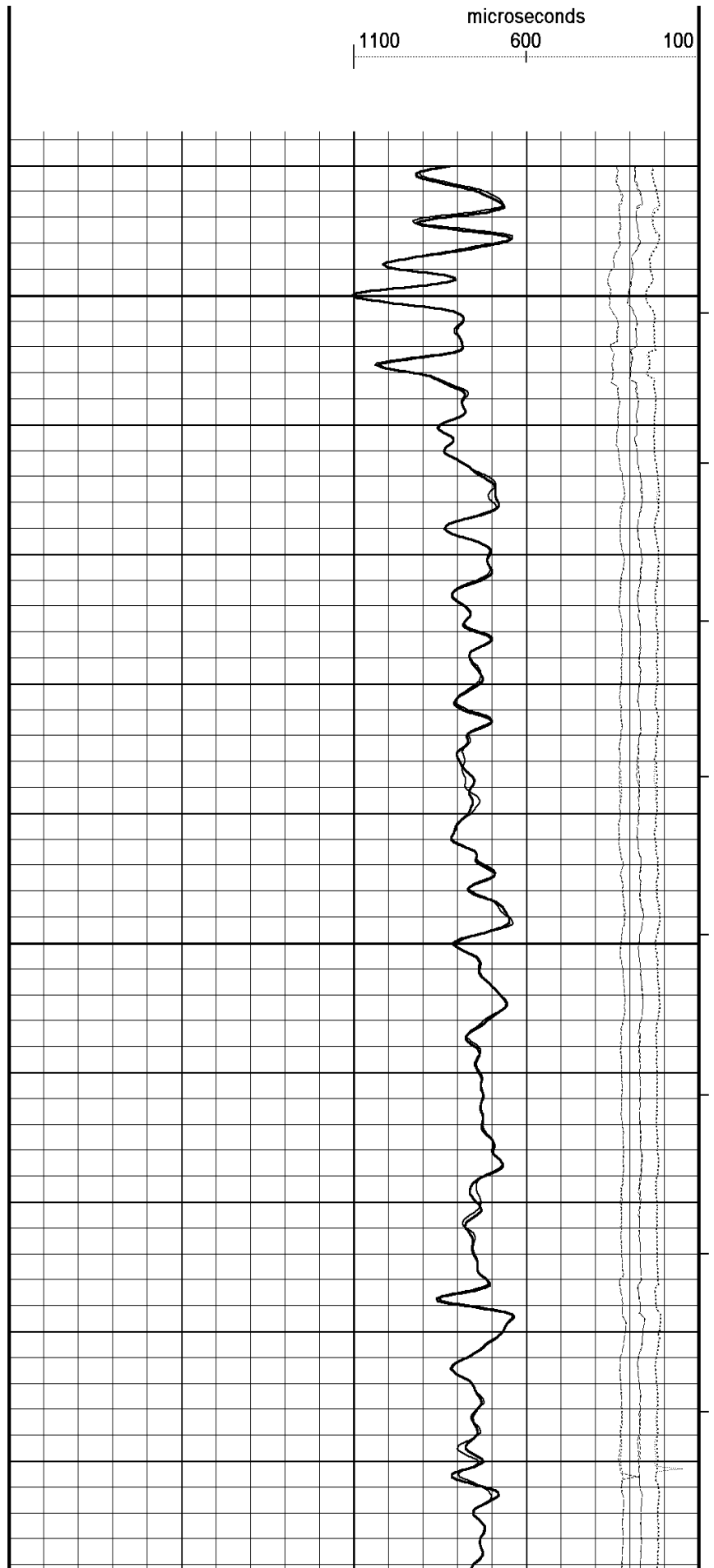
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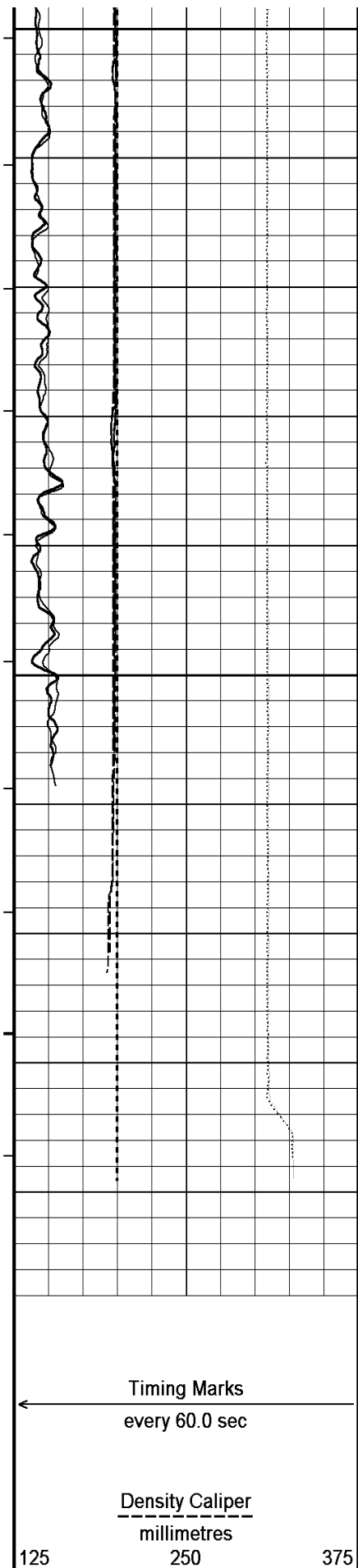
1450

1460

49°

1470





1480

49°

1490

1500

1510

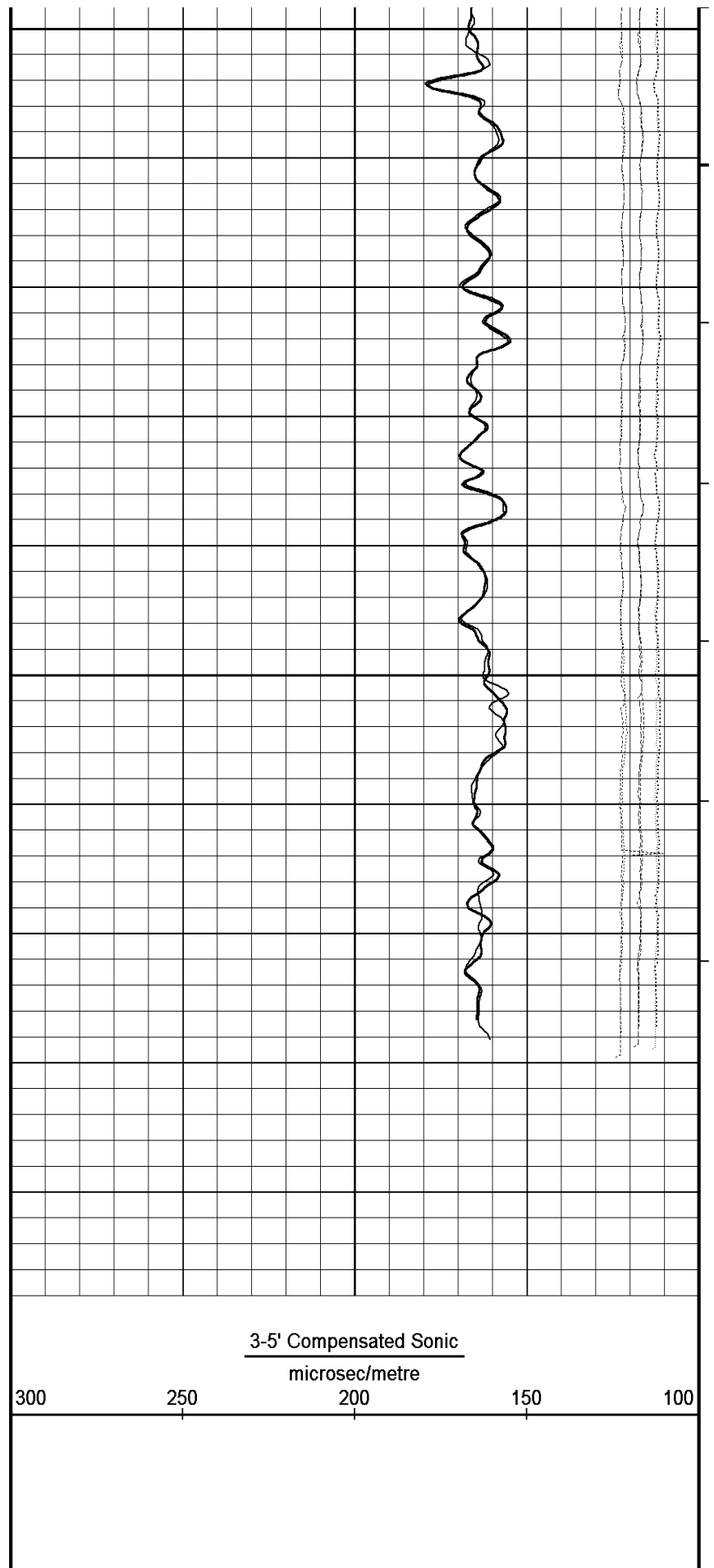
1520

1523

Depth
in
Metres

Timing Marks
every 60.0 sec

Density Caliper
millimetres
125 250 375



3-5' Compensated Sonic
microsec/metre

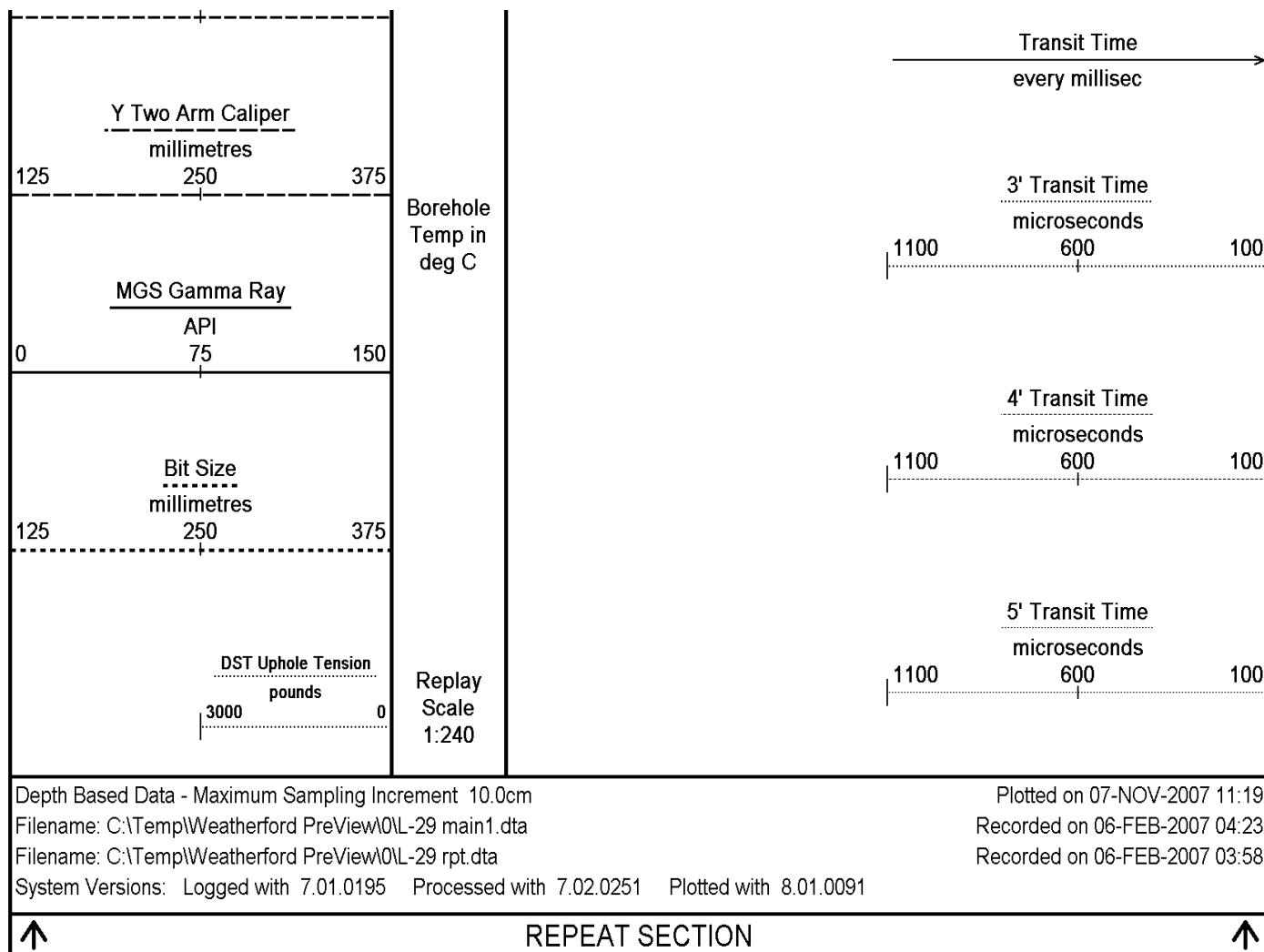
300

250

200

150

100



BEFORE SURVEY CALIBRATION				C:\Temp\Weatherford PreView\0\L-29 rpt.dta
General Constants All 000			Last Edited on 6-FEB-2007,03:32	
General Parameters				
Mud Resistivity	0.690	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	Y Two Arm Caliper			
Annular Volume Diameter	139.700	mm		
Caliper for Differential Caliper	Density Caliper			
Rwa Parameters				
Porosity used	Base Density Porosity			
Resistivity used	Deep Induction			
RWA Constant A	0.610			
RWA Constant M	2.150			
Gamma Calibration MCG 159			Field Calibration on 5-FEB-2007,23:16	
	Measured	Calibrated (API)		

Background	50	34	
Calibrator (Gross)	1224	828	
Calibrator (Net)	1174	794	
Gamma Constants MCG 159			Last Edited on 6-FEB-2007,02:31
Gamma Calibrator Number	GRCC075		
Mud Density	1135.00	kg/m3	
Caliper Source for Processing	Density Caliper		
Tool Position	Centred		
Concentration of KCl	0.00	kppm	
SP Calibration MCG 159			Field Calibration on 25-JAN-2007 17:35
	Measured	Calibrated (mV)	
Reference 1	99.9	99.5	
Reference 2	-99.3	-99.5	
High Resolution Temperature Calibration MCG 159			Field Calibration on 28-NOV-2006,15:40
	Measured	Calibrated(Deg C)	
Lower	10.00	10.00	
Upper	50.00	50.00	
High Resolution Temperature Constants MCG 159			Last Edited on 28-NOV-2006,15:40
Pre-filter Length	11		
FE Calibration MFE 017			Base Calibration on 25-JAN-2007 17:46 Field Check on 1-FEB-2007 08:10
Base Calibration			
	Measured	Calibrated (ohm-m)	
Reference 1	0.0	0.0	
Reference 2	971.0	126.8	
Base Check		279.5	
Field Check		280.6	
FE Constants MFE 017			Last Edited on 29-JAN-2007,21:47
Caliper Source for FE correction	Density Caliper		
Rm Source for FE correction	Temperature Corr		
Temp. for Rm Corr.	MCG External Temperature		
Stand-off	Centred	millimetres	
Caliper Calibration MTC 006			Base Calibration on 25-JAN-2007,18:14 Field Calibration on 6-FEB-2007,03:31
Base Calibration			
Reading No	Measured	Calibrator Size (mm)	
1	14734	110.00	
2	17539	162.00	
3	20248	212.00	
4	22990	262.00	
5	25897	311.00	
6	N/A	N/A	
Field Calibration			
	Measured Caliper (mm)	Actual Caliper (mm)	
	208.40	205.70	
Gamma Calibration MGS 010			Field Calibration on 5-FEB-2007,23:15
	Measured	Calibrated (API)	
Background	48	31	
Calibrator (Gross)	1256	825	
Calibrator (Net)	1208	794	

Gamma Constants MGS 010				Last Edited on 6-FEB-2007,02:31	
Gamma Calibrator Number	grcc075				
Mud Density	1135.00	kg/m3			
Caliper Source for Processing	Density Caliper				
Tool Position	Centred				
Concentration of KCl	0.00	kppm			
SP Calibration MGS 010				Field Calibration on 8-NOV-2006,19:47	
	Measured	Calibrated (mV)			
Reference 1	0.0	0.0			
Reference 2	10.0	10.0			
High Resolution Temperature Calibration MGS 010				Field Calibration on 28-NOV-2006,15:40	
	Measured	Calibrated(Deg C)			
Lower	10.00	10.00			
Upper	50.00	50.00			
High Resolution Temperature Constants MGS 010					
Pre-filter Length	11				
Micro Normal and Micro Inverse Calibration MML 015				Base Calibration on 25-JAN-2007,17:08 Field Check on 31-JAN-2007 18:48	
Base Calibration					
Channel	Resistor 1	Measured Resistor 2	Calibrated (ohm-m) Resistor 1 Resistor 2		
Micro Normal	9.9	48.5	5.1	25.6	
Micro Inverse	9.9	48.7	3.4	16.9	
Channel	Base Check (ohm-m)		Field Check (ohm-m)		
Micro Normal	79.8		0.0		
Micro Inverse	52.6		0.0		
Micro Normal and Micro Inverse Constants MML 015				Last Edited on 5-FEB-2007,23:14	
Micro Normal K Factor	0.5110				
Micro Inverse K Factor	0.3380				
Standoff Offset	N/A		millimetres		
Caliper Calibration MML 015				Base Calibration on 25-JAN-2007,18:15 Field Calibration on 6-FEB-2007,03:32	
Base Calibration					
Reading No	Measured		Calibrator Size (mm)		
1	13860		162.00		
2	17089		212.00		
3	20617		262.00		
4	24375		311.00		
5	27976		355.00		
6	N/A		N/A		
Field Calibration					
	Measured Caliper (mm)		Actual Caliper (mm)		
	211.00		205.70		
Neutron Calibration MDN 144				Base Calibration on 25-JAN-2007 18:05 Field Check on 5-FEB-2007 23:56	
Base Calibration					
	Measured		Calibrated (cps)		
	Near	Far	Near	Far	
	2967	93	3714	110	
Ratio	31.886		33.764		
Field Calibrator at Base			Calibrated (cps)		

Ratio	2065	2999	0.689
Field Check	2075	3068	
Ratio			0.676
Neutron Constants MDN 144			Last Edited on 18-JAN-2007,02:18
Neutron Source Id	16145b		
Neutron Jig Number			
Epithermal Neutron	No		
Caliper Source for Processing	Density Caliper		
Stand-off	0.00	mm	
Mud Density	1000.00	kg/m3	
Limestone Sigma	7.10	cu	
Sandstone Sigma	4.26	cu	
Dolomite Sigma	4.70	cu	
Formation Pressure Source	Constant Value		
Formation Pressure	0.00	kPa	
Temperature Source	MCG External Temperature		
Temperature	20.00	degrees C	
Mud Salinity	0.00	kppm	
Formation Fluid Salinity Source	Constant Value		
Formation Fluid Salinity	0.00	kppm	
Barite Mud Correction	Not Applied		
Photo Density Calibration MPD 036			Base Calibration on 23-JAN-2007 04:10 Field Check on 5-FEB-2007 23:46
Density Calibration			
Base Calibration	Measured	Calibrated (sdu)	
	Near	Far	Near Far
Reference 1	52802	28585	60352 31615
Reference 2	21780	2767	25043 2540
Field Check at Base	1184.8	1494.9	
Field Check	1184.7	1500.0	
PE Calibration			
Base Calibration	Measured	Calibrated	
	WS WH Ratio	Ratio	
Background	213 1052		
Reference 1	22151 52610	0.425	0.400
Reference 2	5909 21638	0.277	0.272
Field Check at Base	213.1 1051.7		
Field Check	211.7 1051.4		
Density Constants MPD 036			Last Edited on 6-FEB-2007,02:32
Density Source Id	2834GW		
Nylon Calibrator Number	608		
Aluminium/Fe Calibrator Number	608		
Density Shoe Profile	4 inch		
Caliper Source for Processing	Density Caliper		
PE Correction to Density	Not Applied		
Mud Density	1135.00	kg/m3	
Mud Density Z/A Correction	1.11		

Mud Filtrate Density	1000.00	kg/m3
Dry Hole Mud Filtrate Density	1000.00	kg/m3
DNCT	0.00	kg/m3
CRCT	0.00	kg/m3
Density Z/A Correction	0	
Matrix Density (kg/m3)	Depth (m)	
2710.00	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	0.00	
Caliper Calibration MPD 036		
Base Calibration		Base Calibration on 23-JAN-2007 04:20
		Field Calibration on 6-FEB-2007,03:32
Reading No	Measured	Calibrator Size (mm)
1	18576	110.00
2	28032	162.00
3	37841	212.00
4	48080	262.00
5	57920	311.00
6	N/A	N/A
Field Calibration		
	Measured Caliper (mm)	Actual Caliper (mm)
	206.00	205.70
Sonic Constants MSS 060		
Last Edited on 6-FEB-2007,03:32		
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
Hunt-Raymer Constant	0.00	0
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
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

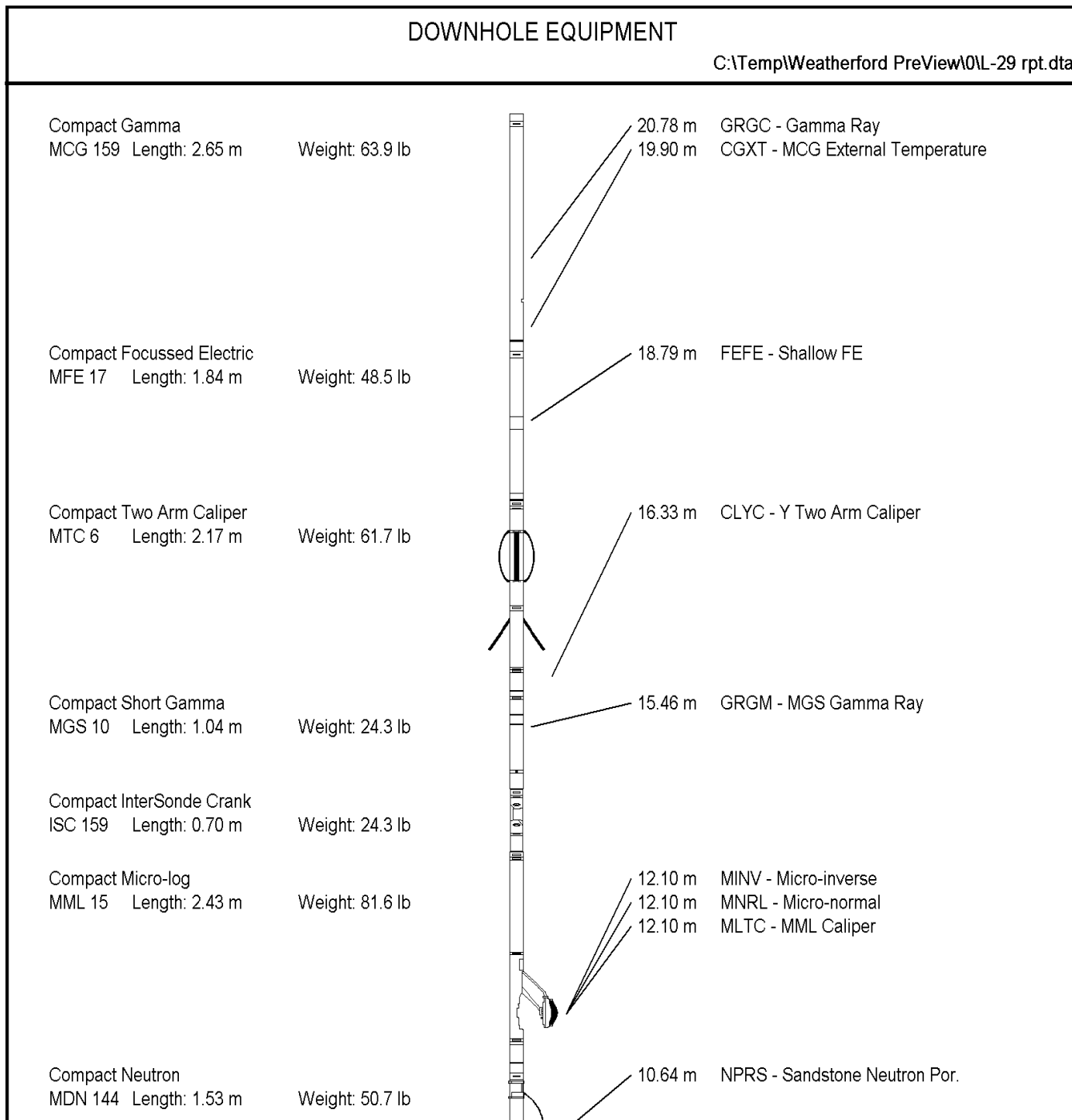
Induction Calibration MAI 072				Base Calibration on 25-JAN-2007,18:16	
				Field Check on 6-FEB-2007 03:36	
Base Calibration					
Test Loop Calibration		Measured		Calibrated (mmho/m)	
Channel	Low	High	Low	High	
1	13.9	459.6	9.3	966.2	
2	5.3	373.2	7.6	821.4	
3	2.9	254.1	5.2	566.0	
4	1.3	130.4	2.6	279.2	
Array Temperature		18.5	Deg C		
Channel		Base Check (mmho/m)		Field Check (mmho/m)	
	Low	High	Low	High	
1	18.0	3925.2	21.4	3925.8	
2	31.0	3598.6	33.0	3598.2	
3	29.0	3101.3	30.5	3101.0	
4	20.3	2105.9	21.3	2105.5	
Deep	18.4	2019.9	19.5	2019.8	
Medium	40.9	4089.6	42.7	4089.1	
Shallow	45.6	5324.4	48.5	5323.6	
Array Temperature		18.5	32.0	Deg C	

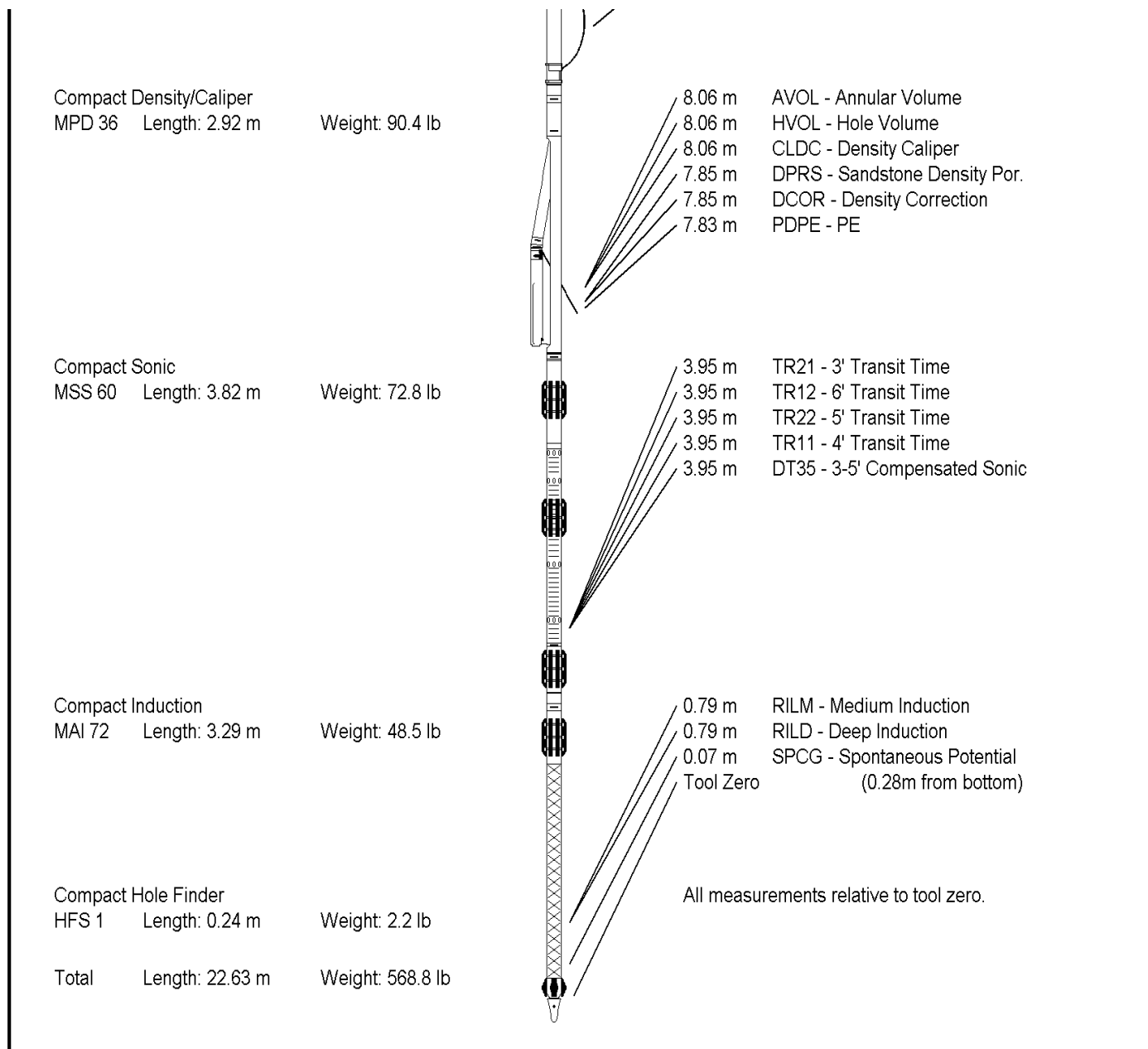
Induction Constants MAI 072				Last Edited on 6-FEB-2007,03:33	
Induction Model		VECTAR			
Caliper for Borehole Corr.		Density Caliper			
Hole Size for Borehole Correction		N/A	millimetres		
Stand-off		25.40	millimetres		
Number of Fins on Stand-off		5.0000			
Stand-off Fin Width		25.4000	millimetres		
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 072			Field Calibration on 11-NOV-2006,04:00
	Measured	Calibrated(Deg C)	
Lower	1.00	1.00	
Upper	10.00	10.00	

High Resolution Temperature Constants MAI 072		
Pre-filter Length	11	

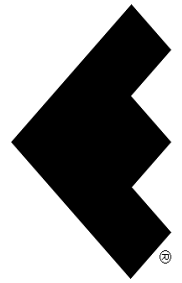




COMPANY	PARAMOUNT RESOURCES LTD.				
WELL	PARA ET AL CAMERON L-29				
FIELD	CAMERON HILLS				
PROVINCE/COUNTY	NORTHWEST TERRITORIES				
COUNTRY/STATE	CANADA				
Elevation Kelly Bushing	759.50	metres	First Reading	1515.40	metre
Elevation Drill Floor		metres	Depth Driller	1515.50	metres
Elevation Ground Level	754.10	metres	Depth Logger	1516.70	metres


Weatherford®

ARRAY INDUCTION



MICROLOG

COMPANY			PARAMOUNT RESOURCES LTD.		
WELL			PARA ET AL CAMERON L-29		
FIELD			CAMERON HILLS		
PROVINCE/COUNTY			NORTHWEST TERRITORIES		
COUNTRY/STATE			CANADA		
LOCATION			300L296010117300		
			FIELD PRINT		
LSD	SEC	TWP	RGE	Other Services	
API Number				ARRAY INDUCTION	
Permit Number 2041				COMPENSTATED SONIC	
Permanent Datum GROUND LEVEL, Elevation 754.1 metres				PHOTO DENSITY	
Log Measured From 5.4 M above Permanent Datum				DUAL SPACED NEUTRON	
Drilling Measured From KB				Elevations:	
Date				KB	metres
Run Number				DF	759.50
Depth Driller				GL	754.10
Depth Logger					
First Reading					
Last Reading					
Casing Driller					
Casing Logger					
Bit Size					
Hole Fluid Type					
Density / Viscosity					
PH / Fluid Loss					
Sample Source					
Rm @ Measured Temp					
Rmf @ Measured Temp					
Rmc @ Measured Temp					
Source Rmf / Rmc					
Rm @ BHT					
Time Since Circulation					
Max Recorded Temp					
Equipment Name					
Equipment / Base					
Recorded By					
Witnessed By					
CIRC. STOP TIME					

BOREHOLE RECORD

Last Edited: 5-FEB-2007 23:19

Bit Size millimetres	Depth From metres	Depth To metres
311.000	0.00	435.50
200.000	435.50	1515.50

CASING RECORD

Type	Size millimetres	Depth From metres	Shoe Depth metres	Weight Kg/metre
SURFACE	219.100	0.00	435.50	35.72

REMARKS

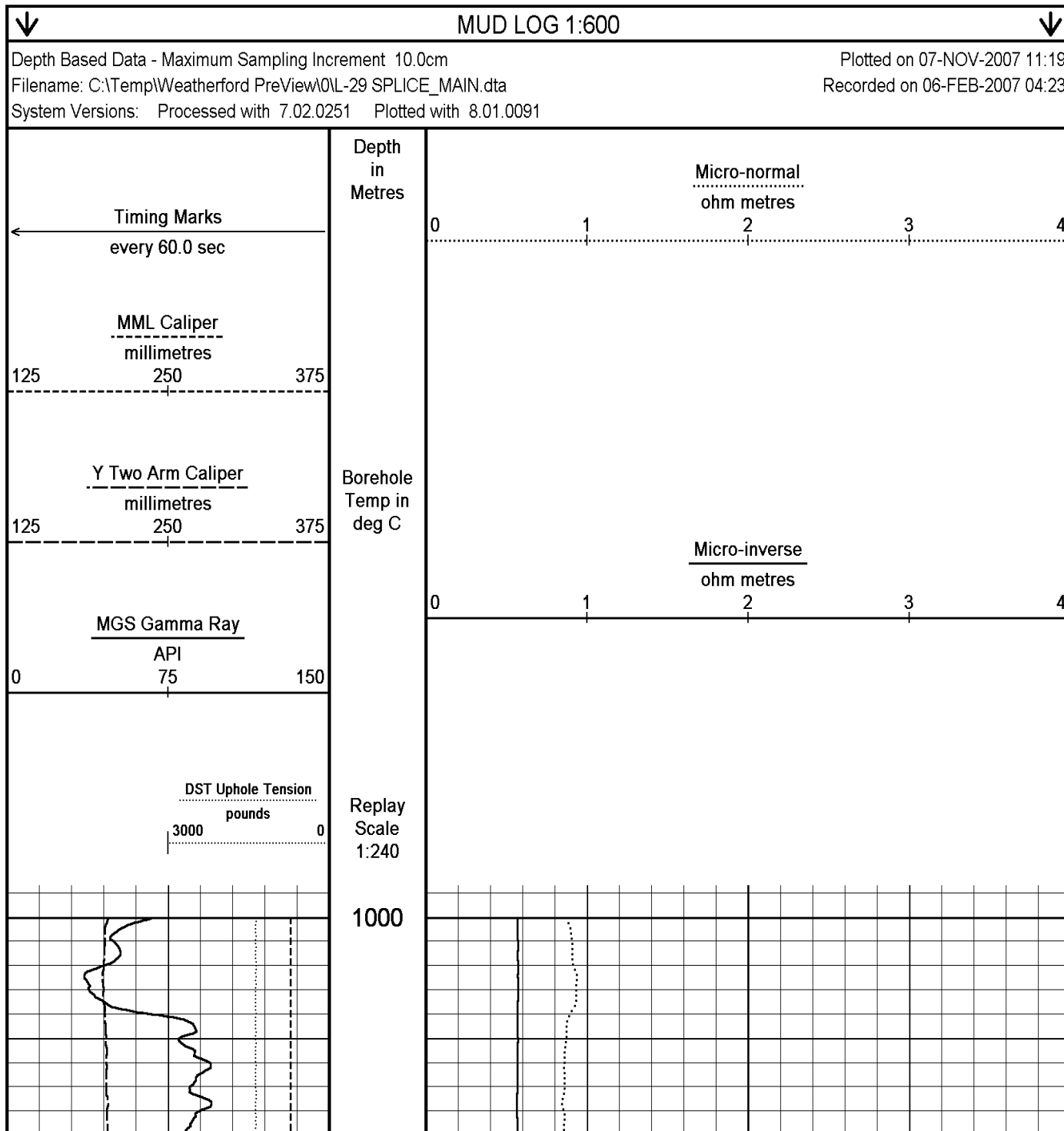
- 1) SOFTWARE ISSUE: WLS 7.01.0195.
- 2) CUSTOMER SCALES AND LOGGED INTERVALS USED
- 3) TOOLS RUN: MAI, MSS, MPD, MDN, MML, ISC, MGS, MTC, MFE, MCG RUN IN COMBINATION
- 4) HARDWARE: MAI: TWO 25.4 MM STANDOFFS
MSS: THREE 25.4 MM STANDOFFS
MDN: DUAL BOWSPRING AND INTERSONDE CRANK
MTC: SIX LEAF CENTRALIZER

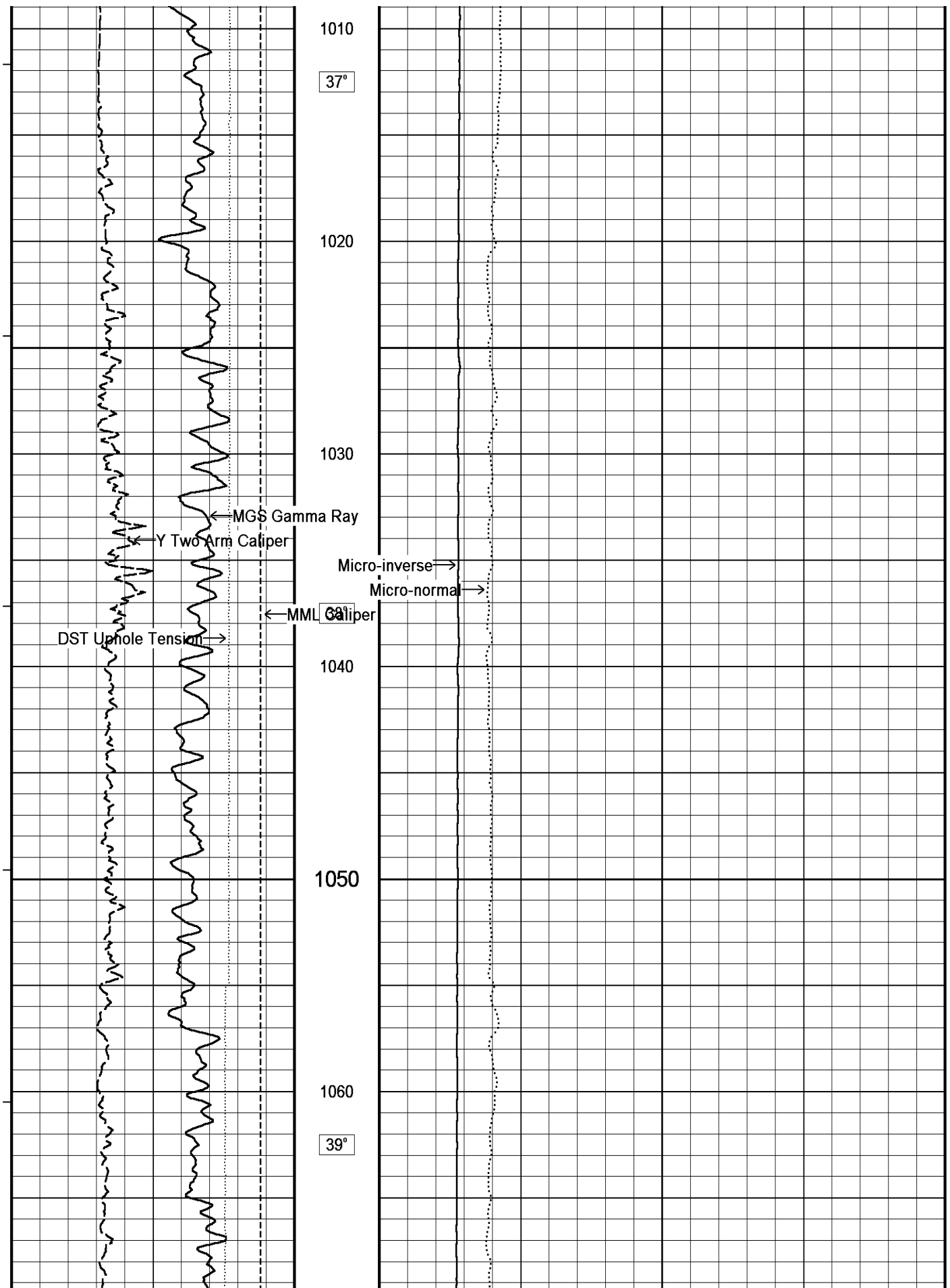
5) SERVICE ORDER #: 30073223

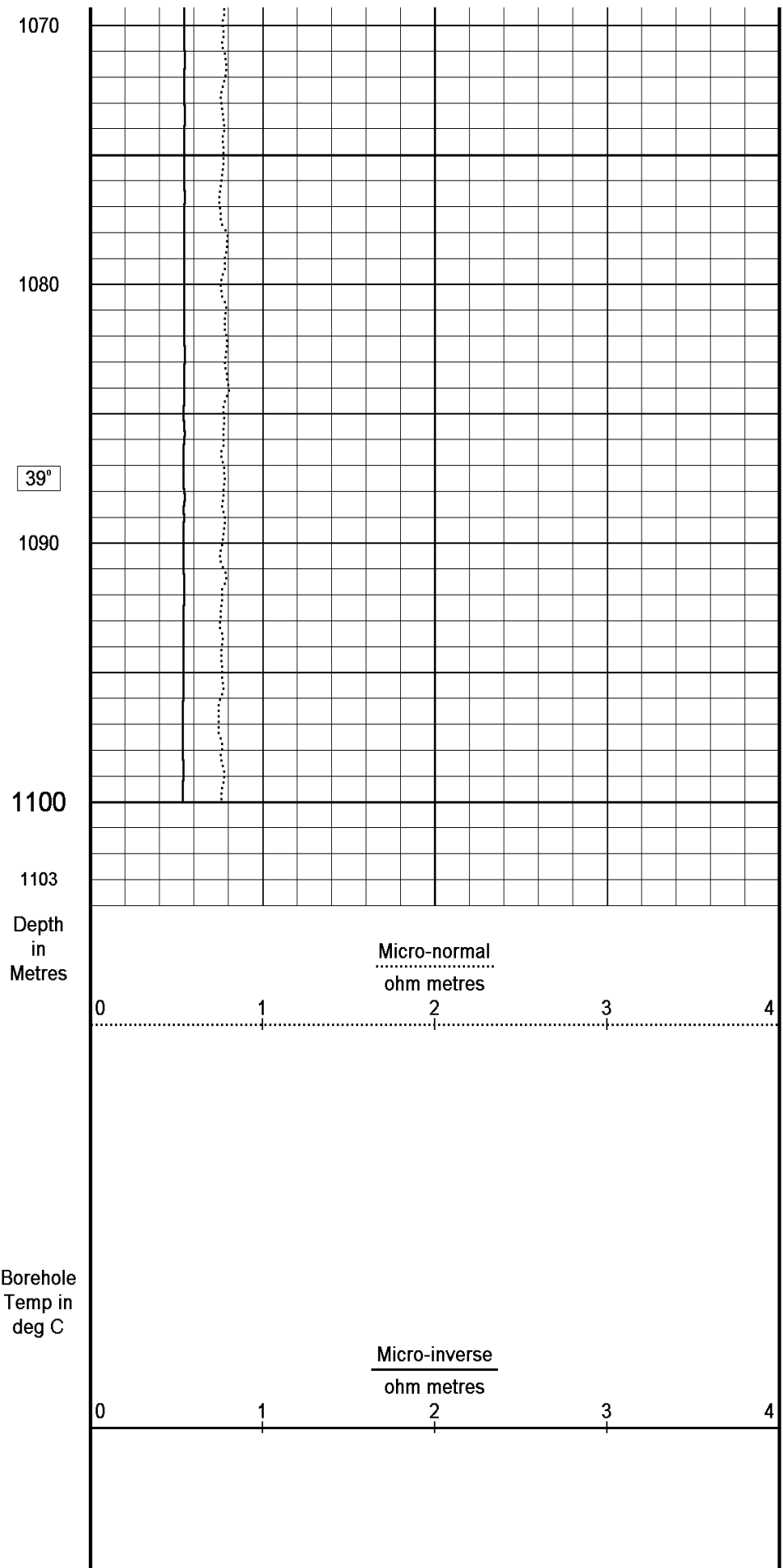
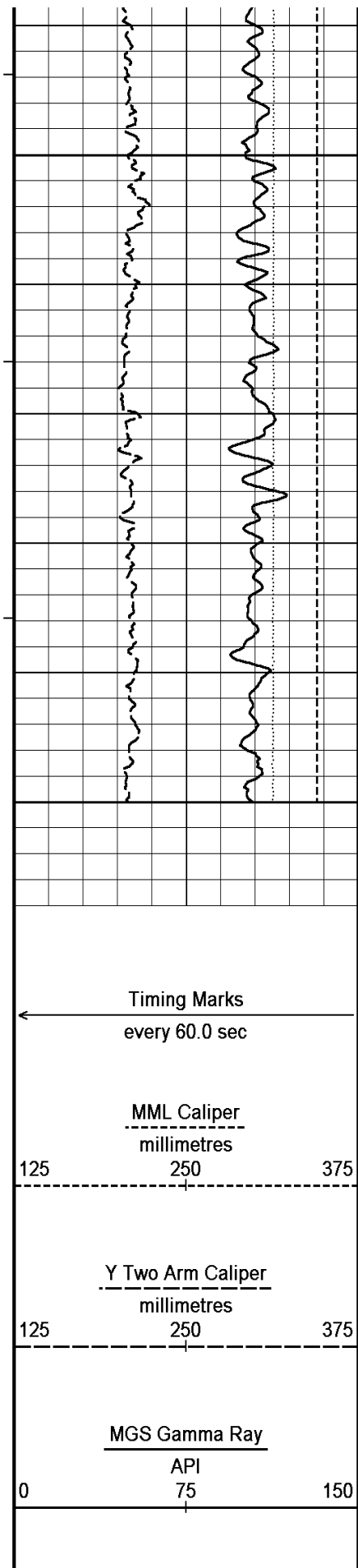
SAP #: 4146696

FIELD PRINTS = 1

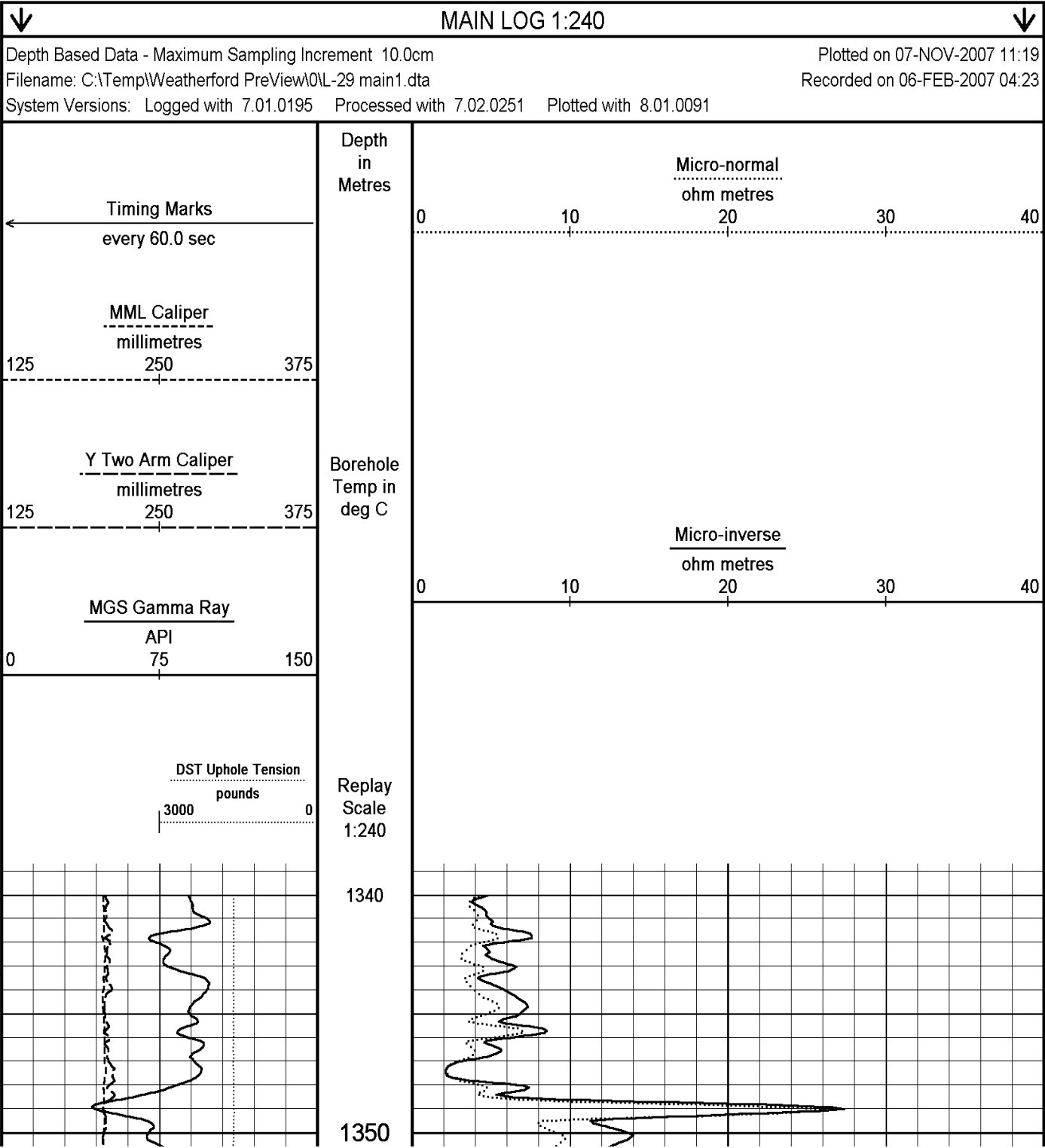
6) RIG: PD 220

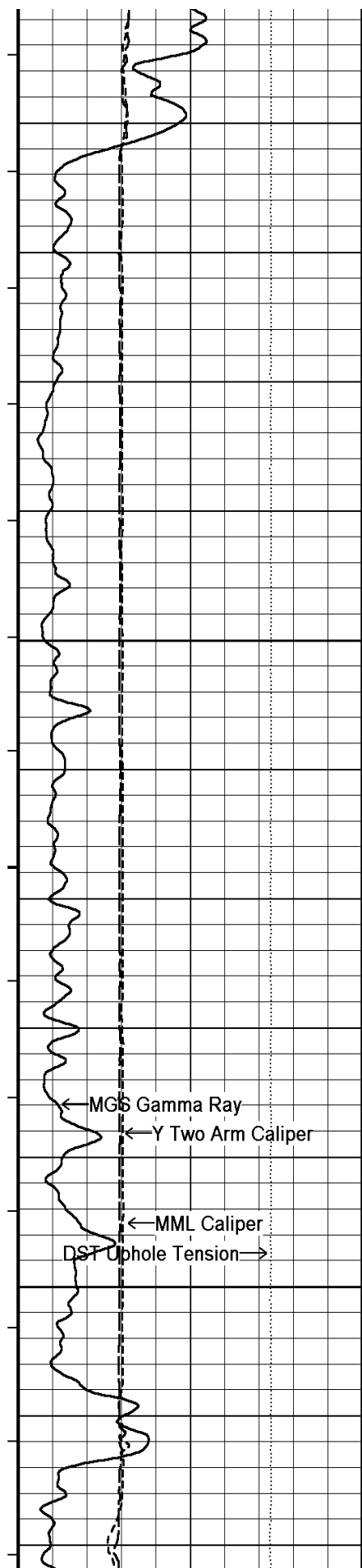






DST Uphole Tension pounds 3000 0	Replay Scale 1:240	
Depth Based Data - Maximum Sampling Increment 10.0cm Filename: C:\Temp\Weatherford PreView\0\L-29 SPLICE_MAIN.dta System Versions: Processed with 7.02.0251 Plotted with 8.01.0091 Plotted on 07-NOV-2007 11:19 Recorded on 06-FEB-2007 04:23		
↑	MUD LOG 1:600	↑





1360

46°

1370

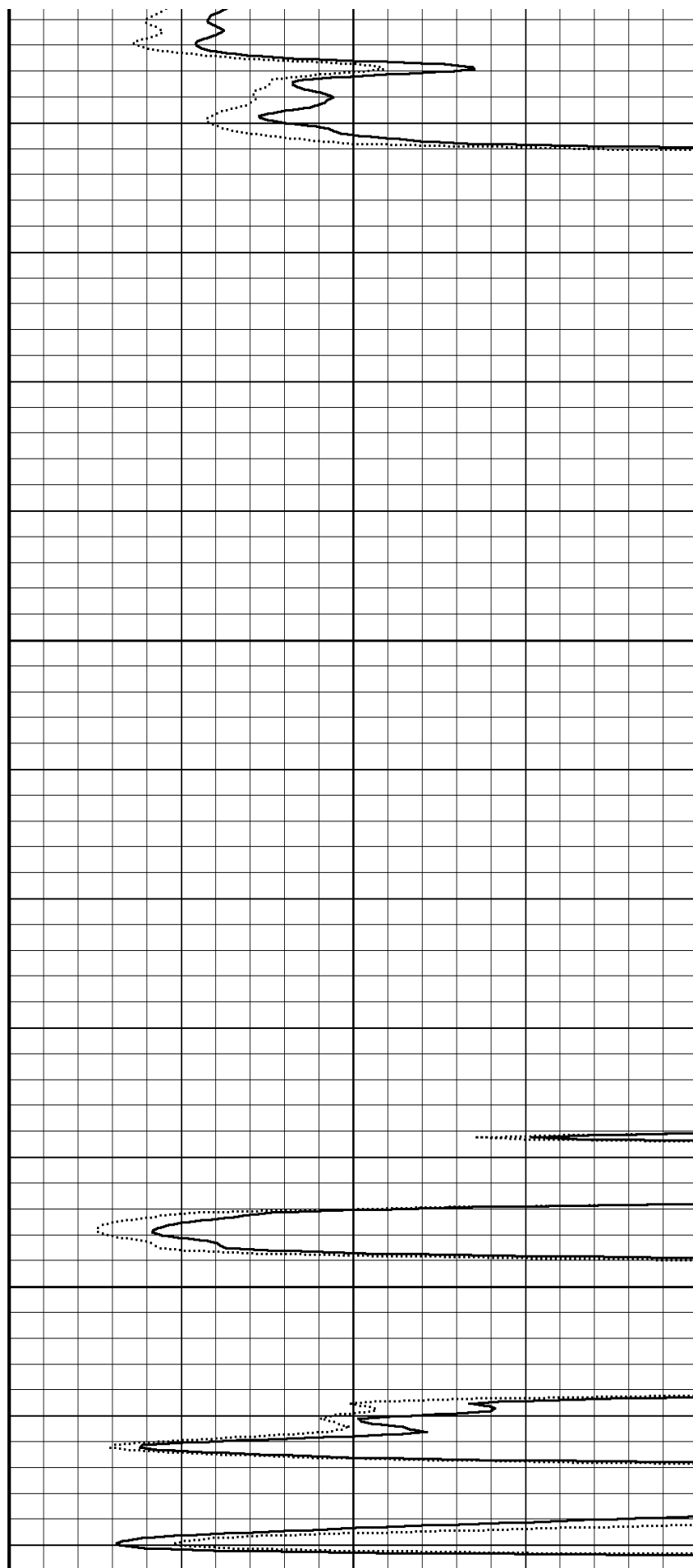
1380

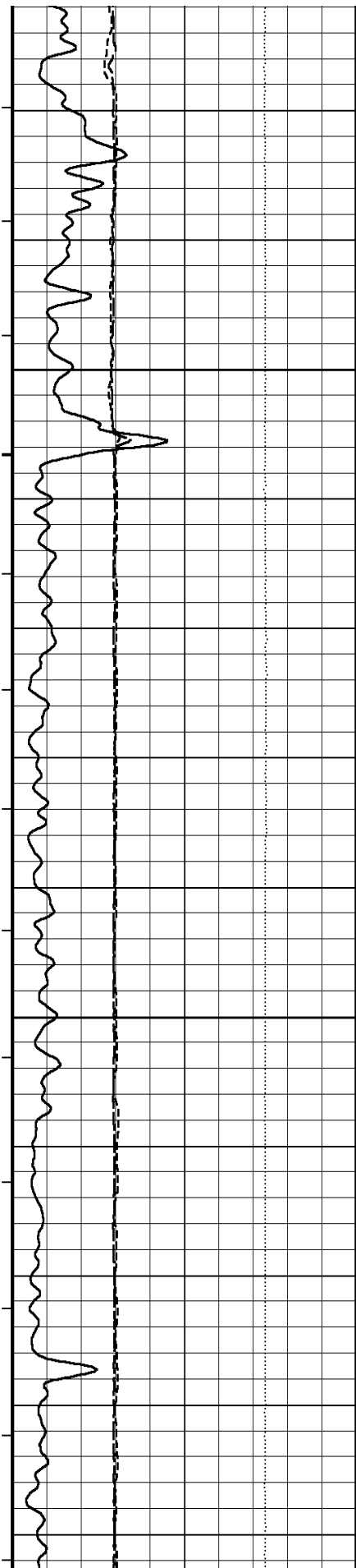
47°

1390

1400

1410





48°

1420

1430

48°

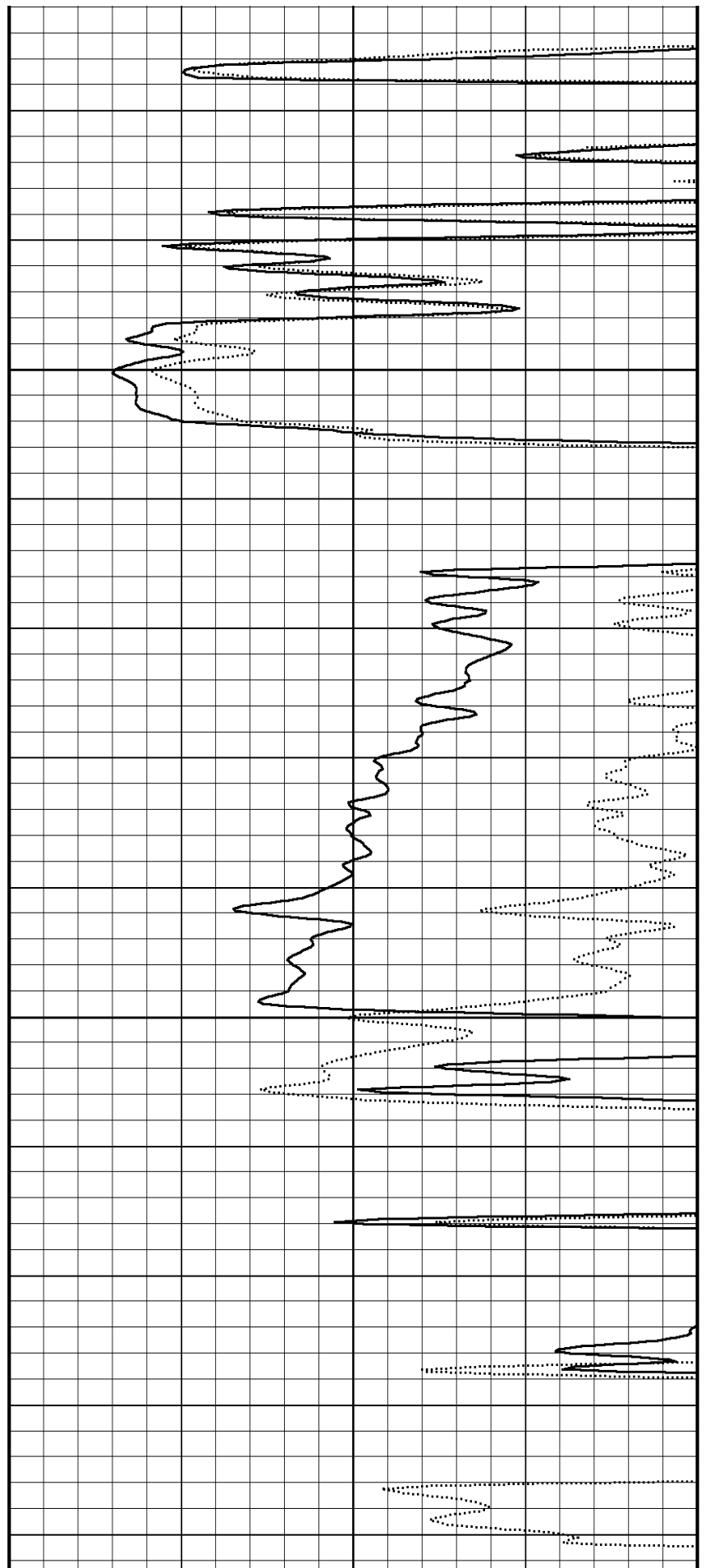
1440

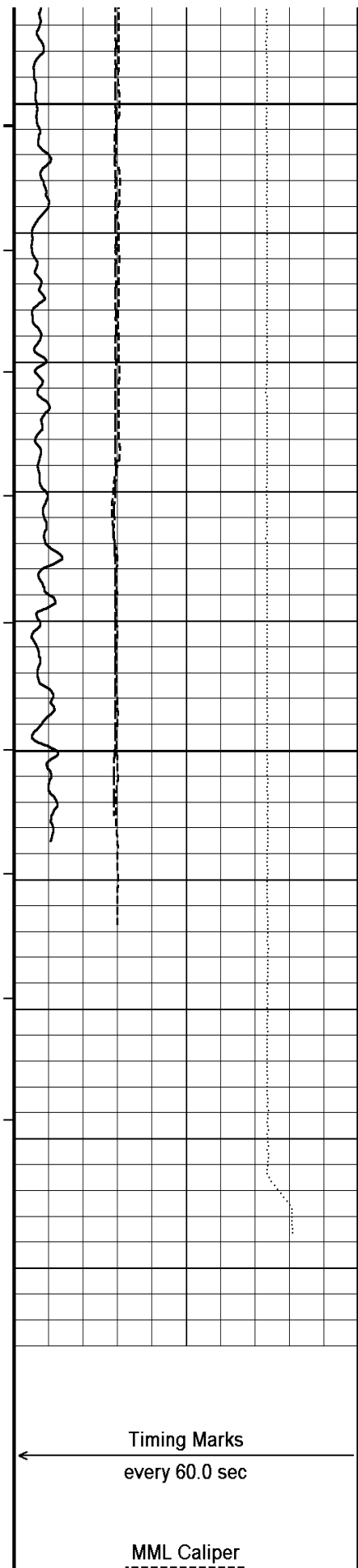
1450

1460

49°

1470





1480

49°

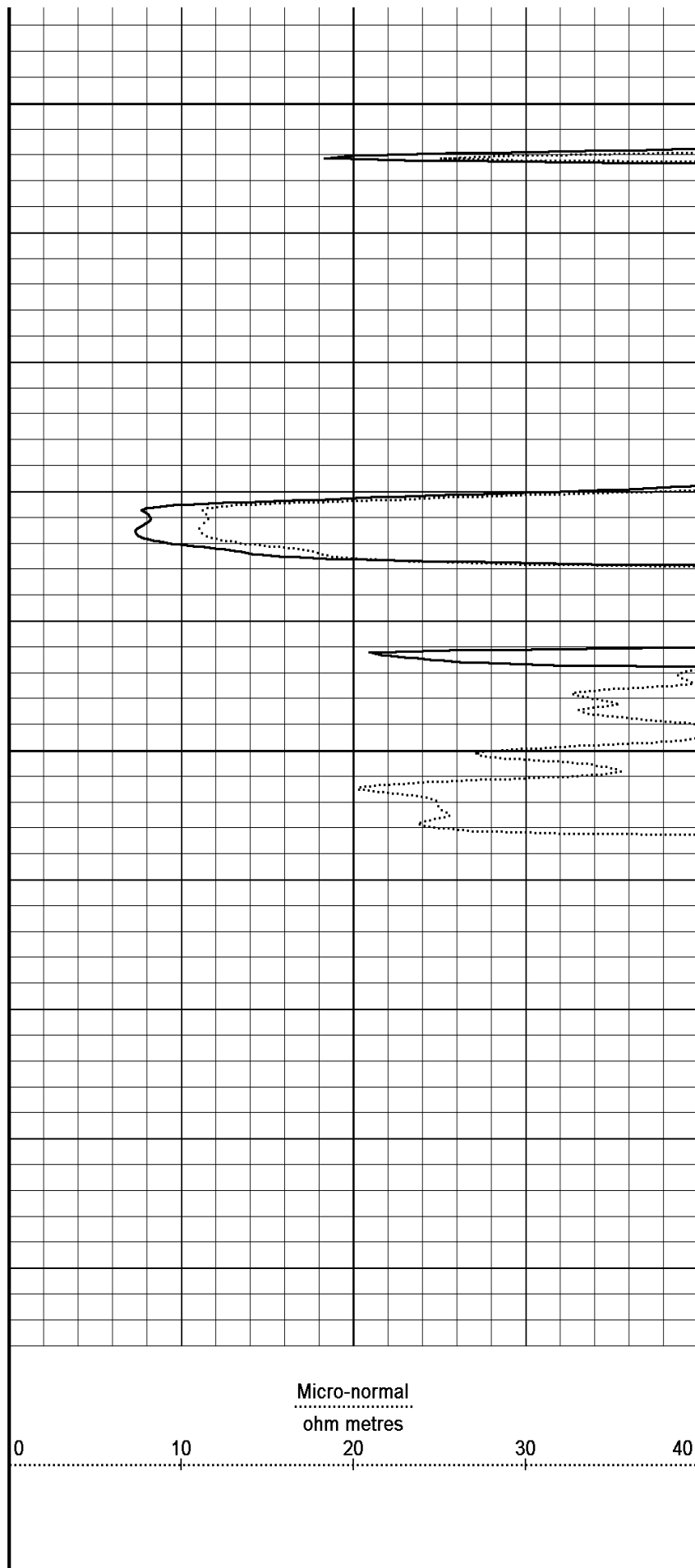
1490

1500

1510

1520

Depth
in
Metres



Micro-normal
ohm metres

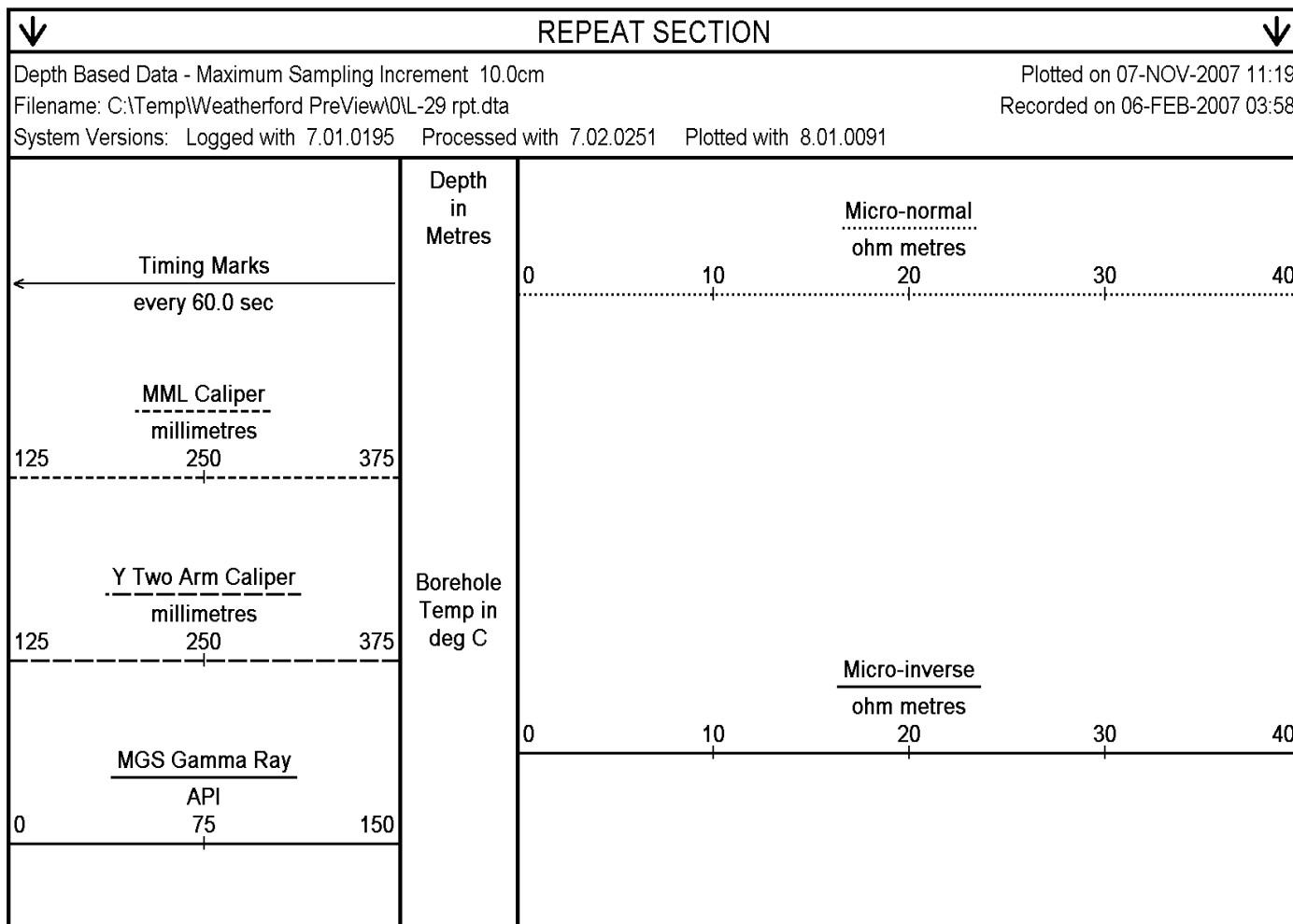
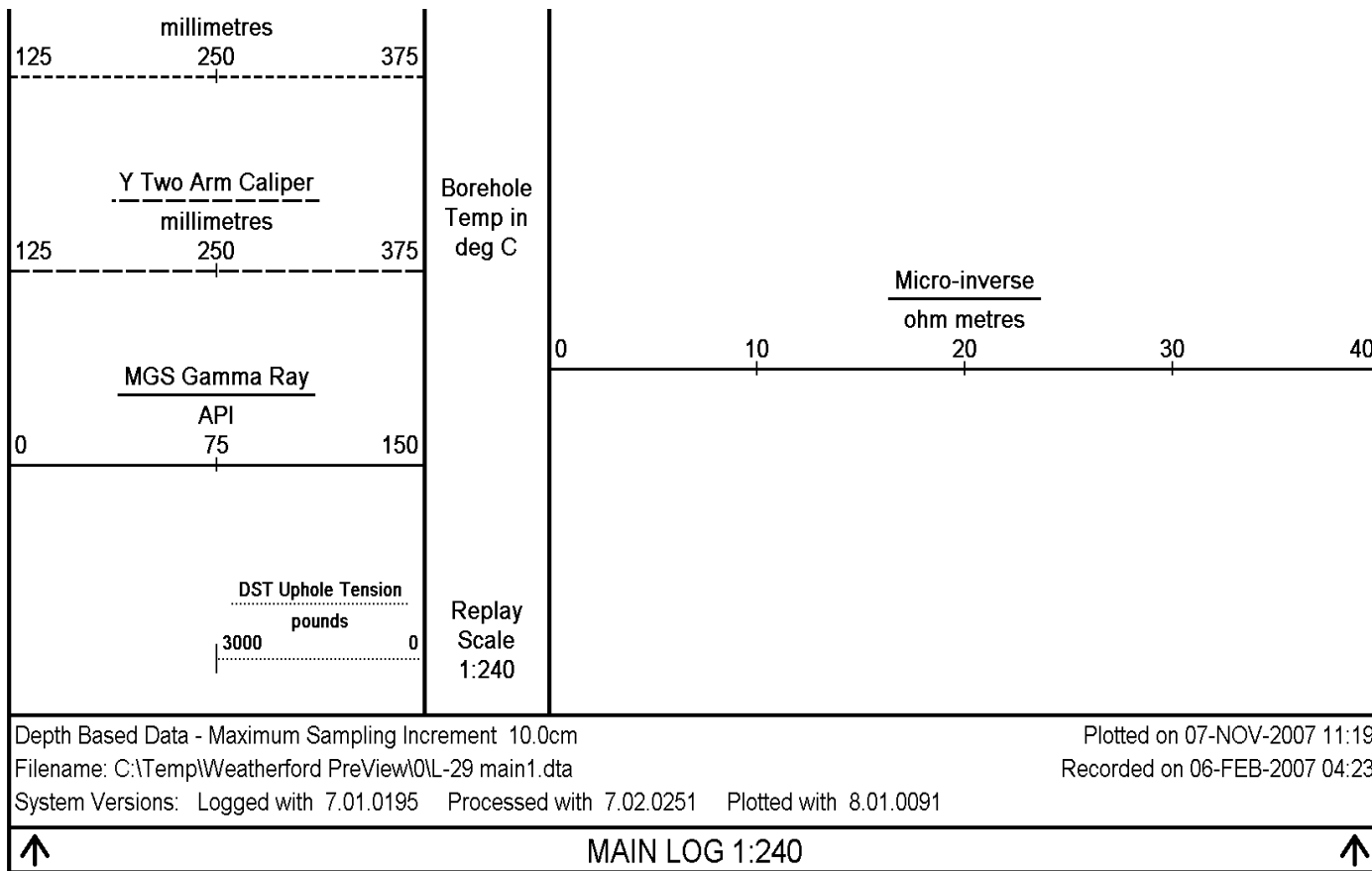
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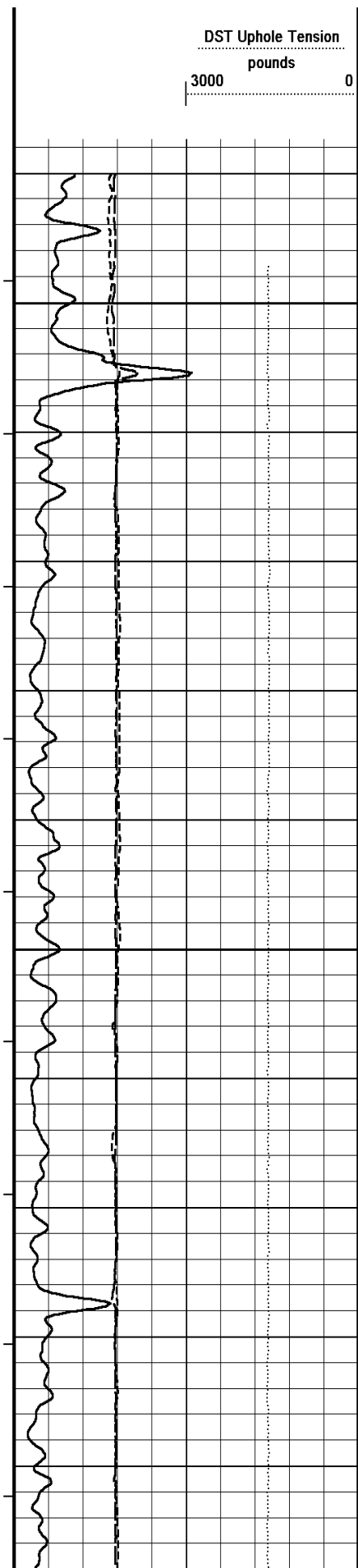
10

20

30

40





Replay
Scale
1:240

1420

1430

48°

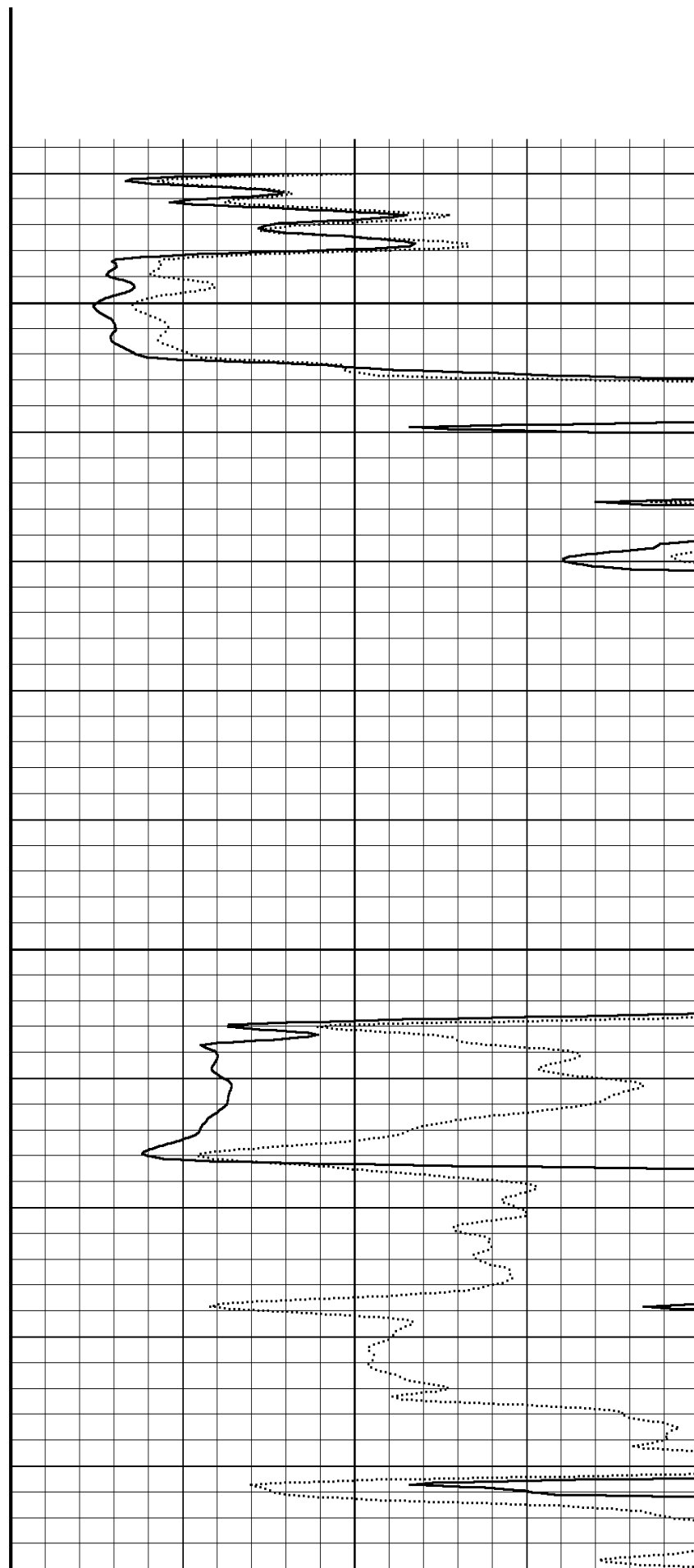
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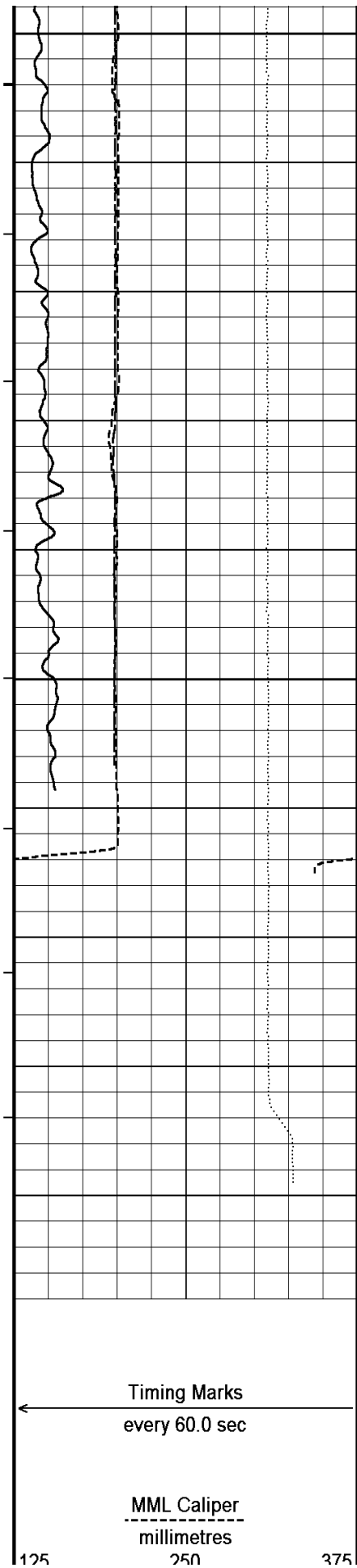
1450

1460

48°

1470





1480

47°

1490

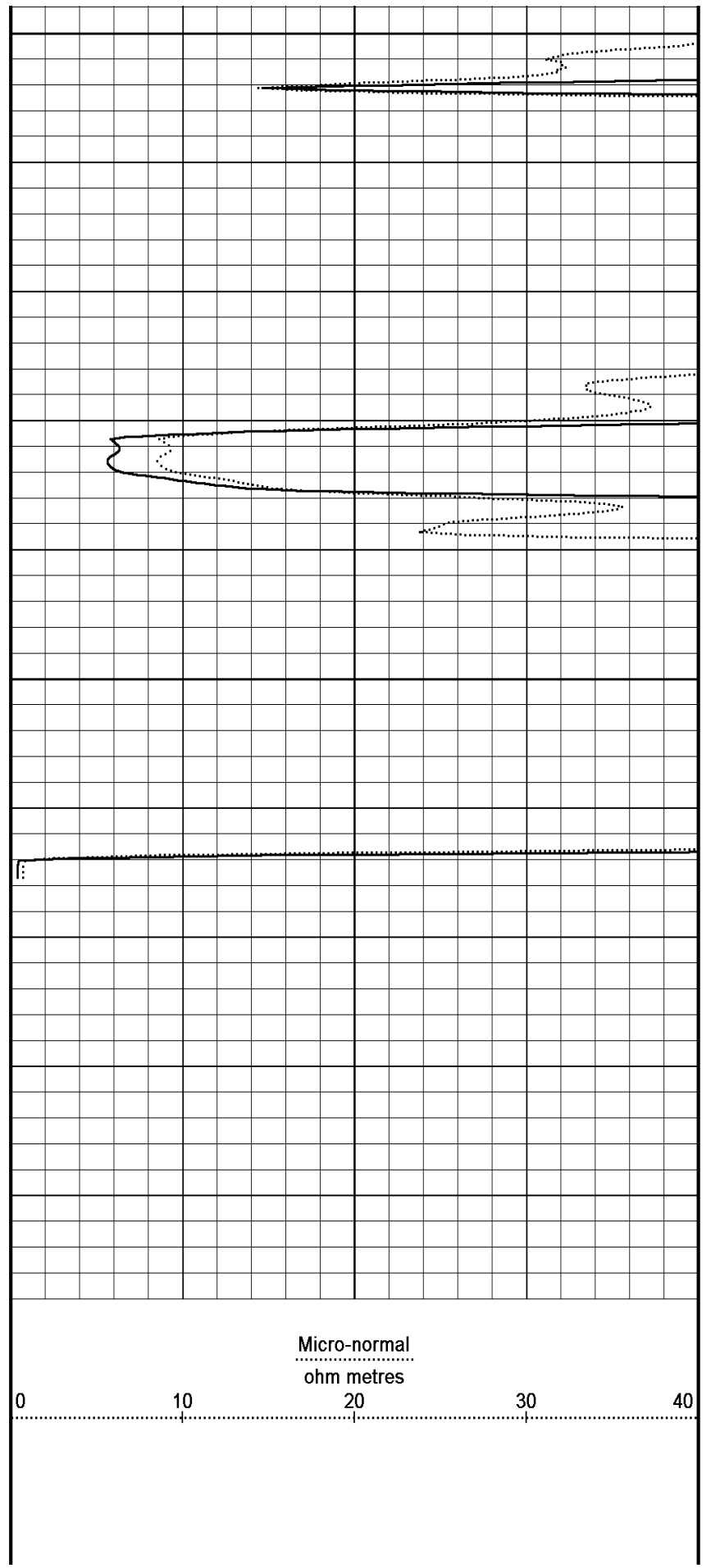
1500

1510

1520

1523

Depth
in
Metres



Caliper Source for Processing	Density Caliper	
Tool Position	Centred	
Concentration of KCl	0.00	kppm
SP Calibration MCG 159		
	Measured	Calibrated (mV)
Reference 1	99.9	99.5
Reference 2	-99.3	-99.5
High Resolution Temperature Calibration MCG 159		
	Measured	Calibrated(Deg C)
Lower	10.00	10.00
Upper	50.00	50.00
High Resolution Temperature Constants MCG 159		
Pre-filter Length	11	
FE Calibration MFE 017		
Base Calibration		
	Measured	Calibrated (ohm-m)
Reference 1	0.0	0.0
Reference 2	971.0	126.8
Base Check		279.5
Field Check		280.6
FE Constants MFE 017		
Caliper Source for FE correction	Density Caliper	
Rm Source for FE correction	Temperature Corr	
Temp. for Rm Corr.	MCG External Temperature	
Stand-off	Centred	millimetres
Caliper Calibration MTC 006		
Base Calibration		
Reading No	Measured	Calibrator Size (mm)
1	14734	110.00
2	17539	162.00
3	20248	212.00
4	22990	262.00
5	25897	311.00
6	N/A	N/A
Field Calibration		
	Measured Caliper (mm)	Actual Caliper (mm)
	208.40	205.70
Gamma Calibration MGS 010		
	Measured	Calibrated (API)
Background	48	31
Calibrator (Gross)	1256	825
Calibrator (Net)	1208	794
Gamma Constants MGS 010		
Gamma Calibrator Number	grcc075	
Mud Density	1135.00	kg/m3
Caliper Source for Processing	Density Caliper	
Tool Position	Centred	
Concentration of KCl	0.00	kppm

SP Calibration MGS 010				Field Calibration on 8-NOV-2006,19:47	
	Measured		Calibrated (mV)		
Reference 1	0.0		0.0		
Reference 2	10.0		10.0		
High Resolution Temperature Calibration MGS 010					
	Measured		Calibrated(Deg C)		Field Calibration on 28-NOV-2006,15:40
Lower	10.00		10.00		
Upper	50.00		50.00		
High Resolution Temperature Constants MGS 010					
Pre-filter Length	11				
Micro Normal and Micro Inverse Calibration MML 015				Base Calibration on 25-JAN-2007,17:08 Field Check on 31-JAN-2007 18:48	
Base Calibration					
		Measured		Calibrated (ohm-m)	
Channel	Resistor 1	Resistor 2	Resistor 1	Resistor 2	
Micro Normal	9.9	48.5	5.1	25.6	
Micro Inverse	9.9	48.7	3.4	16.9	
Channel	Base Check (ohm-m)		Field Check (ohm-m)		
Micro Normal	79.8		0.0		
Micro Inverse	52.6		0.0		
Micro Normal and Micro Inverse Constants MML 015				Last Edited on 5-FEB-2007,23:14	
Micro Normal K Factor	0.5110				
Micro Inverse K Factor	0.3380				
Standoff Offset	N/A millimetres				
Caliper Calibration MML 015				Base Calibration on 25-JAN-2007,18:15 Field Calibration on 6-FEB-2007,03:32	
Base Calibration					
Reading No	Measured		Calibrator Size (mm)		
1	13860		162.00		
2	17089		212.00		
3	20617		262.00		
4	24375		311.00		
5	27976		355.00		
6	N/A		N/A		
Field Calibration					
	Measured Caliper (mm)		Actual Caliper (mm)		
	211.00		205.70		
Neutron Calibration MDN 144				Base Calibration on 25-JAN-2007 18:05 Field Check on 5-FEB-2007 23:56	
Base Calibration					
		Measured		Calibrated (cps)	
	Near	Far	Near	Far	
	2967	93	3714	110	
Ratio	31.886		33.764		
Field Calibrator at Base					
			Calibrated (cps)		
			2065	2999	
Ratio			0.689		
Field Check					
			Calibrated (cps)		
			2075	3068	
Ratio			0.676		

Neutron Source Id	16145b	
Neutron Jig Number		
Epithermal Neutron	No	
Caliper Source for Processing	Density Caliper	
Stand-off	0.00	mm
Mud Density	1000.00	kg/m3
Limestone Sigma	7.10	cu
Sandstone Sigma	4.26	cu
Dolomite Sigma	4.70	cu
Formation Pressure Source	Constant Value	
Formation Pressure	0.00	kPa
Temperature Source	MCG External Temperature	
Temperature	20.00	degrees C
Mud Salinity	0.00	kppm
Formation Fluid Salinity Source	Constant Value	
Formation Fluid Salinity	0.00	kppm
Barite Mud Correction	Not Applied	

Photo Density Calibration MPD 036

Base Calibration on 23-JAN-2007 04:10

Field Check on 5-FEB-2007 23:46

Density Calibration				
Base Calibration		Measured	Calibrated (sdu)	
	Near	Far	Near	Far
Reference 1	52802	28585	60352	31615
Reference 2	21780	2767	25043	2540

Field Check at Base

1184.8	1494.9
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Field Check

1184.7	1500.0
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PE Calibration				
Base Calibration		Measured	Calibrated	
	WS	WH	Ratio	Ratio
Background	213	1052		
Reference 1	22151	52610	0.425	0.400
Reference 2	5909	21638	0.277	0.272

Field Check at Base

213.1	1051.7
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Field Check

211.7	1051.4
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Density Constants MPD 036

Last Edited on 6-FEB-2007,02:32

Density Source Id	2834GW	
Nylon Calibrator Number	608	
Aluminium/Fe Calibrator Number	608	
Density Shoe Profile	4 inch	
Caliper Source for Processing	Density Caliper	
PE Correction to Density	Not Applied	
Mud Density	1135.00	kg/m3
Mud Density Z/A Correction	1.11	
Mud Filtrate Density	1000.00	kg/m3
Dry Hole Mud Filtrate Density	1000.00	kg/m3
DNCT	0.00	kg/m3
CRCT	0.00	kg/m3
Density Z/A Correction	0	
Matrix Density (kg/m3)	Depth (m)	
2710.00	- - -	

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
0.00	0.00

Caliper Calibration MPD 036

Base Calibration on 23-JAN-2007 04:20
Field Calibration on 6-FEB-2007,03:32

Base Calibration

Reading No	Measured	Calibrator Size (mm)
1	18576	110.00
2	28032	162.00
3	37841	212.00
4	48080	262.00
5	57920	311.00
6	N/A	N/A

Field Calibration

Measured Caliper (mm)	Actual Caliper (mm)
206.00	205.70

Sonic Constants MSS 060

Last Edited on 6-FEB-2007,03:32

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
Hunt-Raymer Constant	0.00	0

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	0.0000	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
Seamance Level	N/A

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

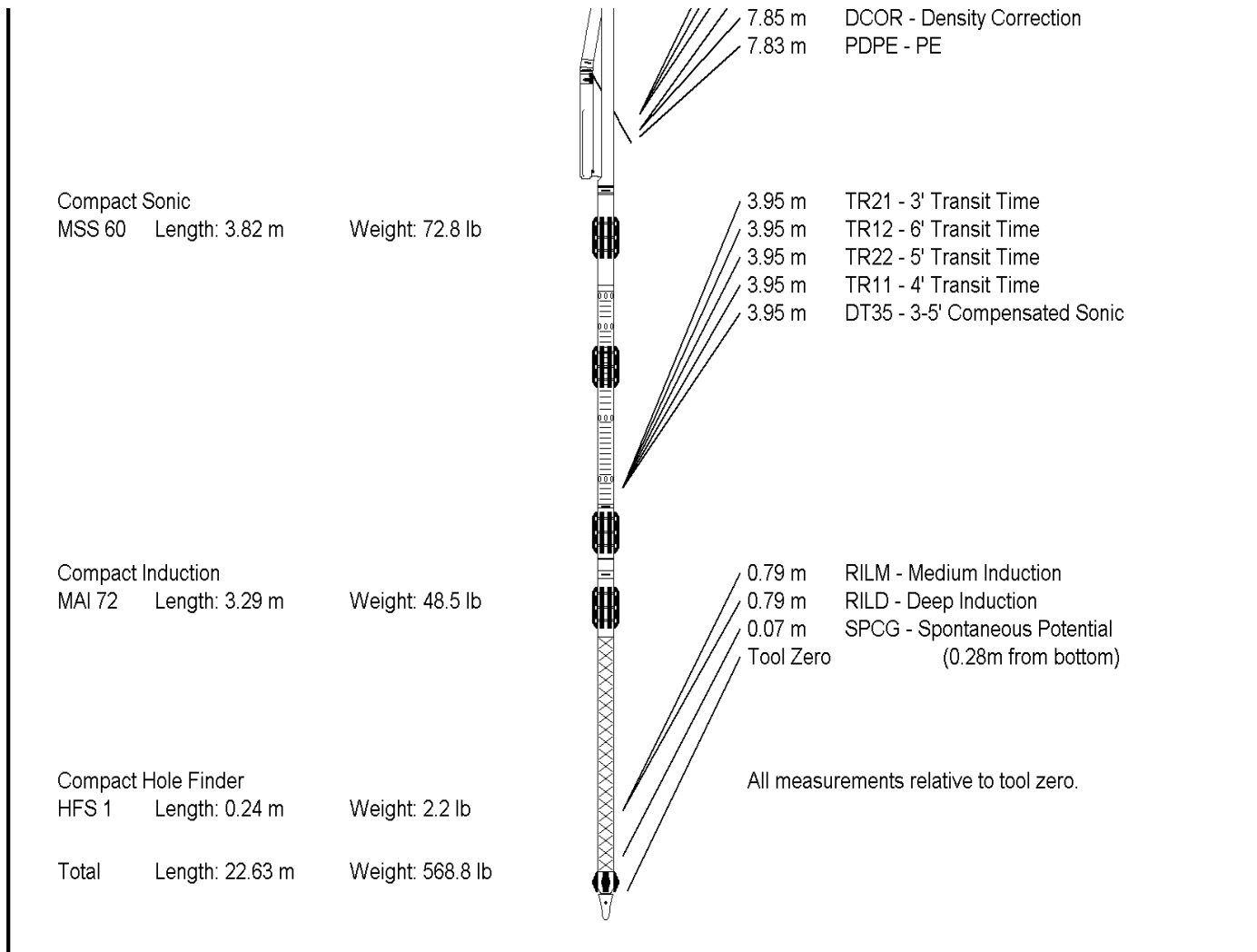
Induction Calibration MAI 072					Base Calibration on 25-JAN-2007,18:16	
					Field Check on 6-FEB-2007 03:36	
Base Calibration						
Test Loop Calibration		Measured		Calibrated (mmho/m)		
Channel	Low	High		Low	High	
1	13.9	459.6		9.3	966.2	
2	5.3	373.2		7.6	821.4	
3	2.9	254.1		5.2	566.0	
4	1.3	130.4		2.6	279.2	
Array Temperature		18.5	Deg C			
Channel		Base Check (mmho/m)		Field Check (mmho/m)		
		Low	High	Low	High	
1		18.0	3925.2	21.4	3925.8	
2		31.0	3598.6	33.0	3598.2	
3		29.0	3101.3	30.5	3101.0	
4		20.3	2105.9	21.3	2105.5	
Deep		18.4	2019.9	19.5	2019.8	
Medium		40.9	4089.6	42.7	4089.1	
Shallow		45.6	5324.4	48.5	5323.6	
Array Temperature		18.5		32.0	Deg C	

Induction Constants MAI 072					Last Edited on 6-FEB-2007,03:33	
Induction Model		VECTAR				
Caliper for Borehole Corr.		Density Caliper				
Hole Size for Borehole Correction		N/A	millimetres			
Stand-off		25.40	millimetres			
Number of Fins on Stand-off		5.0000				
Stand-off Fin Width		25.4000	millimetres			
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 072					Field Calibration on 11-NOV-2006,04:00	
Measured		Calibrated (Deg C)				

	measured	Calibrated(Deg C)
Lower	1.00	1.00
Upper	10.00	10.00
High Resolution Temperature Constants MAI 072		
Pre-filter Length	11	

DOWNHOLE EQUIPMENT			C:\Temp\Weatherford PreView\0\L-29 rpt.dta	
Compact Gamma MCG 159 Length: 2.65 m	Weight: 63.9 lb		20.78 m	GRGC - Gamma Ray
			19.90 m	CGXT - MCG External Temperature
Compact Focussed Electric MFE 17 Length: 1.84 m	Weight: 48.5 lb		18.79 m	FEFE - Shallow FE
Compact Two Arm Caliper MTC 6 Length: 2.17 m	Weight: 61.7 lb		16.33 m	CLYC - Y Two Arm Caliper
Compact Short Gamma MGS 10 Length: 1.04 m	Weight: 24.3 lb		15.46 m	GRGM - MGS Gamma Ray
Compact InterSonde Crank ISC 159 Length: 0.70 m	Weight: 24.3 lb			
Compact Micro-log MML 15 Length: 2.43 m	Weight: 81.6 lb		12.10 m	MINV - Micro-inverse
			12.10 m	MNRL - Micro-normal
			12.10 m	MLTC - MML Caliper
Compact Neutron MDN 144 Length: 1.53 m	Weight: 50.7 lb		10.64 m	NPRS - Sandstone Neutron Por.
Compact Density/Caliper MPD 36 Length: 2.92 m	Weight: 90.4 lb		8.06 m	AVOL - Annular Volume
			8.06 m	HVOL - Hole Volume
			8.06 m	CLDC - Density Caliper
			7.85 m	DPRS - Sandstone Density Por.



COMPANY		PARAMOUNT RESOURCES LTD.			
WELL		PARA ET AL CAMERON L-29			
FIELD		CAMERON HILLS			
PROVINCE/COUNTY		NORTHWEST TERRITORIES			
COUNTRY/STATE		CANADA			
Elevation Kelly Bushing	759.50	metres	First Reading	1504.10	metre
Elevation Drill Floor		metres	Depth Driller	1515.50	metres
Elevation Ground Level	754.10	metres	Depth Logger	1516.70	metres




MICROLOG



MINIPILOT

COMPANY **PARAMOUNT RESOURCES LTD.**
WELL **PARA ET AL CAMERON L-29**
FIELD **CAMERON HILLS**
PROVINCE/COUNTY **NORTHWEST TERRITORIES**
COUNTRY/STATE **CANADA**
LOCATION **300L296010117300**

FIELD PRINT

LSD SEC TWP RGE Other Services

API Number **2041** COMPENSTATED SONIC
Permit Number **2041** MICROLOG

Permanent Datum GROUND LEVEL, Elevation 754.1 metres
Log Measured From 5.4 M above Permanent Datum
Drilling Measured From KB

Elevations:
KB 759.50
DF 754.10
GL

Date **05-FEB-2006**

Run Number **1**

Depth Driller **1515.50** metres

Depth Logger **1516.70** metres

First Reading **1515.40** metre

Last Reading **436.00** metre

Casing Driller **435.50** metres

Casing Logger **436.00** metres

Bit Size **200.00** mm

Hole Fluid Type **GEL CHEM**

Density / Viscosity **1135.0 kg/M3** **80.00 CP**

PH / Fluid Loss **10.50** **10.00 ml/30Min**

Sample Source **FLOWLINE**

Rm @ Measured Temp **0.92 @ 25.0** ohm-m

Rmf @ Measured Temp **0.69 @ 25.0** ohm-m

Rmc @ Measured Temp **1.12 @ 25.0** ohm-m

Source Rmf / Rmc **PRESS** **FILTER**

Rm @ BHT **0.60 @ 49.0** ohm-m

Time Since Circulation **7.0 HRS**

Max Recorded Temp **49.00** deg C

Equipment Name **COMPACT**

Equipment / Base **QUINT** **GPR**

Recorded By **M. BONNELL**

Witnessed By **B. POWELL**

CIRC. STOP TIME **FEB-05 21:00**

Last Line

BOREHOLE RECORD

Last Edited: 5-FEB-2007 23:19

Bit Size millimetres	Depth From metres	Depth To metres
311.000	0.00	435.50
200.000	435.50	1515.50

CASING RECORD

Type	Size millimetres	Depth From metres	Shoe Depth metres	Weight Kg/metre
SURFACE	219.100	0.00	435.50	35.72

REMARKS

- 1) SOFTWARE ISSUE: WLS 7.01.0195.
- 2) CUSTOMER SCALES AND LOGGED INTERVALS USED
- 3) TOOLS RUN: MAI, MSS, MPD, MDN, MML, ISC, MGS, MTC, MFE, MCG RUN IN COMBINATION
- 4) HARDWARE: MAI: TWO 25.4 MM STANDOFFS
MSS: THREE 25.4 MM STANDOFFS
MDN: DUAL BOWSPRING AND INTERSONDE CRANK
MTC: SIX LEAF CENTRALIZER

5) SERVICE ORDER #: 30073223

SAP #: 4146696

FIELD PRINTS = 1

6) RIG: PD 220

7) SONIC FREE PIPE: FOUND FROM 382-386M

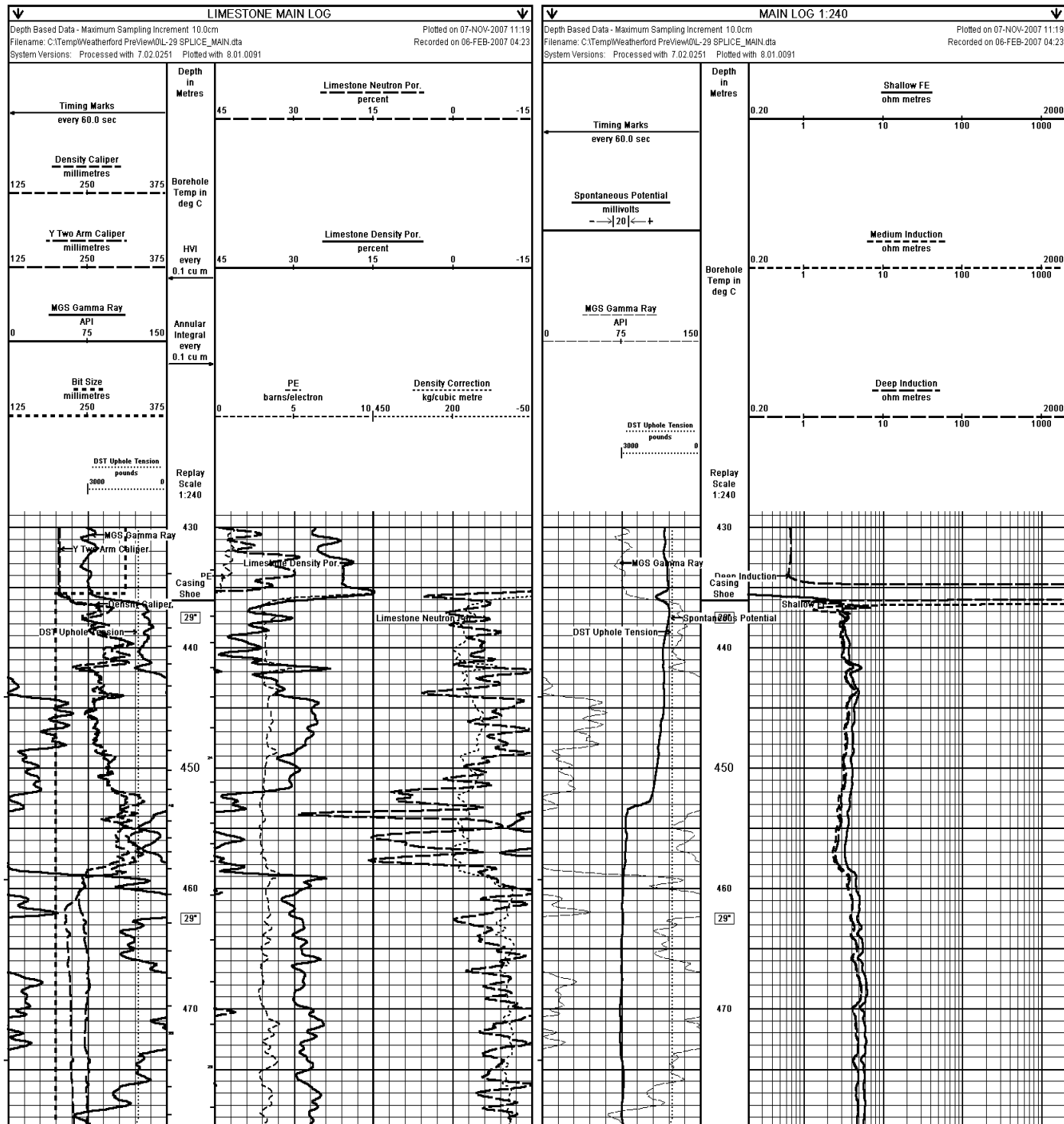
8) HOLE AND CEMENT VOLUMES FROM TD-SURFACE CASING CALCULATED USING DENSITY AND 2-ARM CALIPERS :

HOLE VOLUME = 41.0 CU.M.

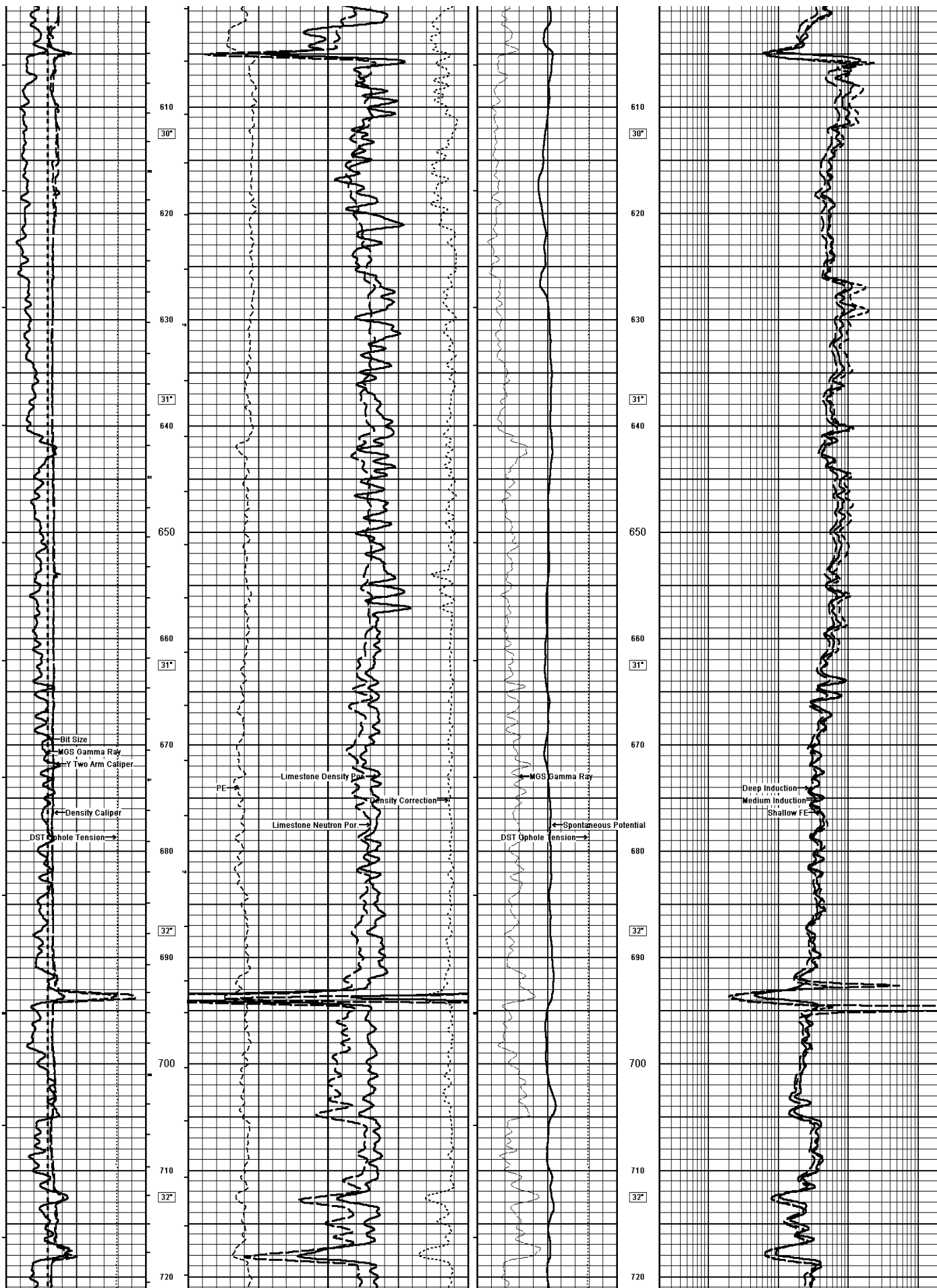
ANNULAR VOLUME USING 139.7 MM PRODUCTION CASING = 24.6 CU.M

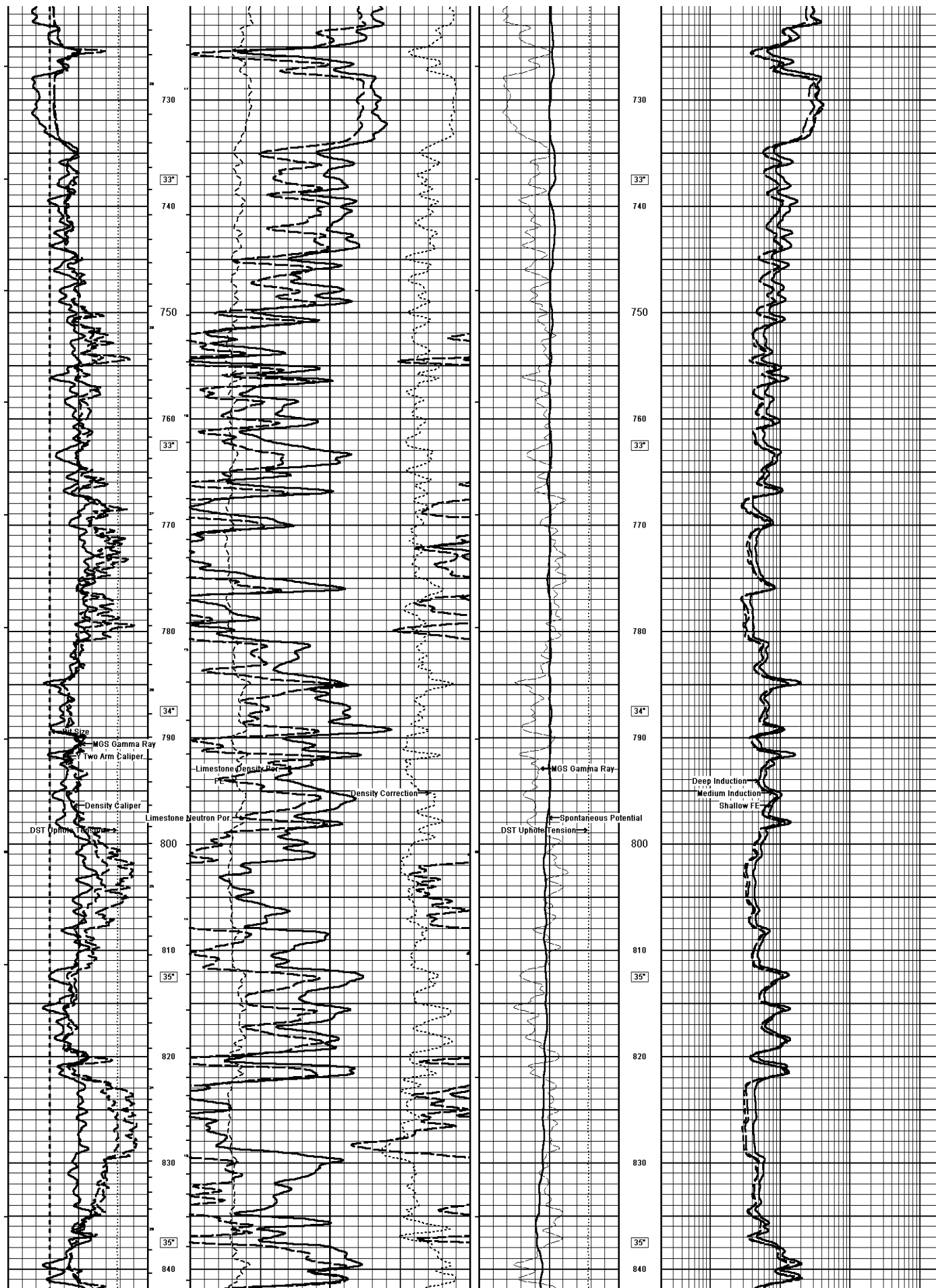
9) SALTY INDUCTION MODEL PRESENTED OFF BOTTOM.

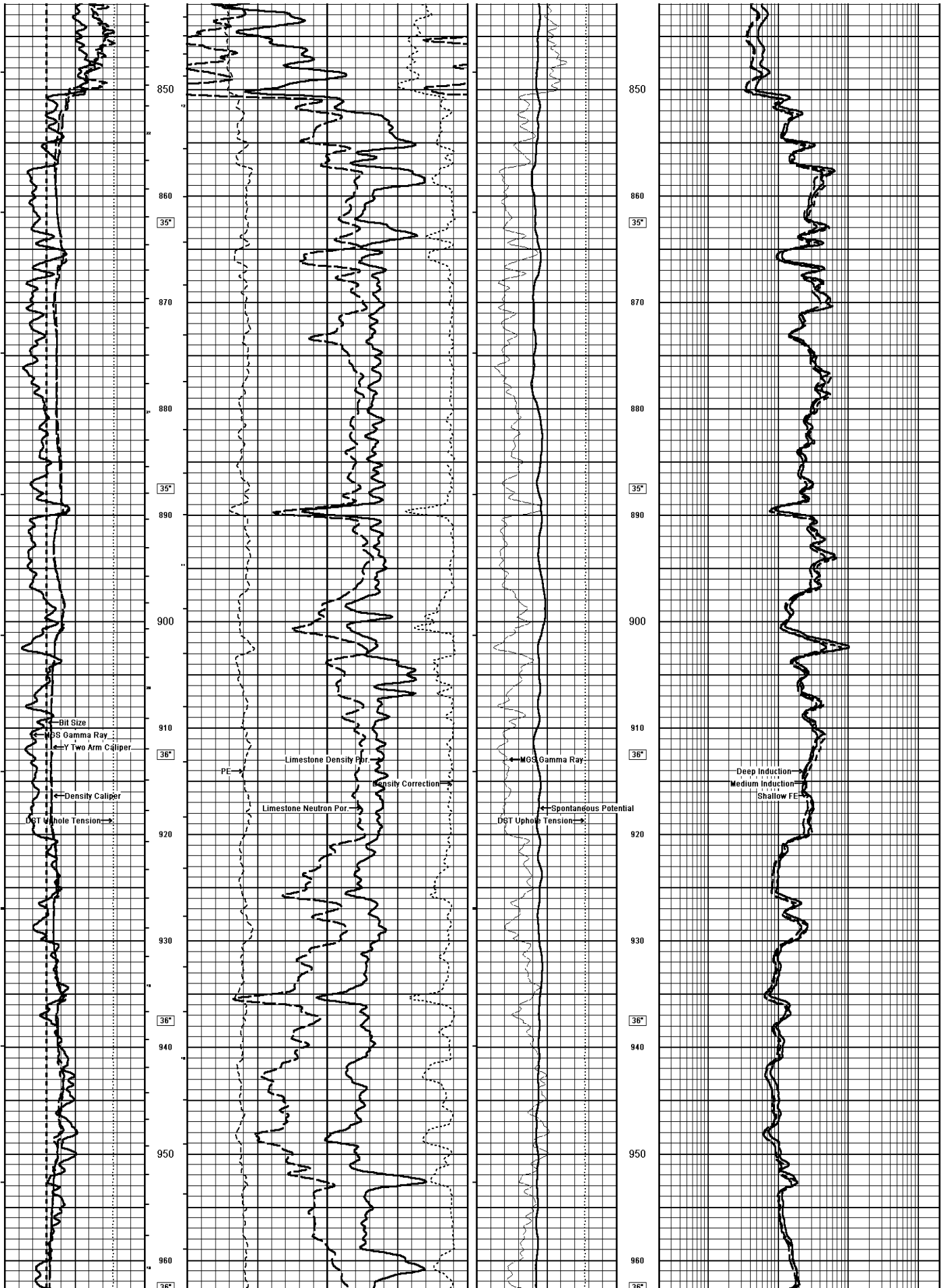
All interpretations are opinions based on inferences from electrical or other measurements and we cannot, and do not, guarantee the accuracy or correctness of any interpretations, and we shall not, except in the case of gross or wilful negligence on our part, be liable or responsible for any loss, costs,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

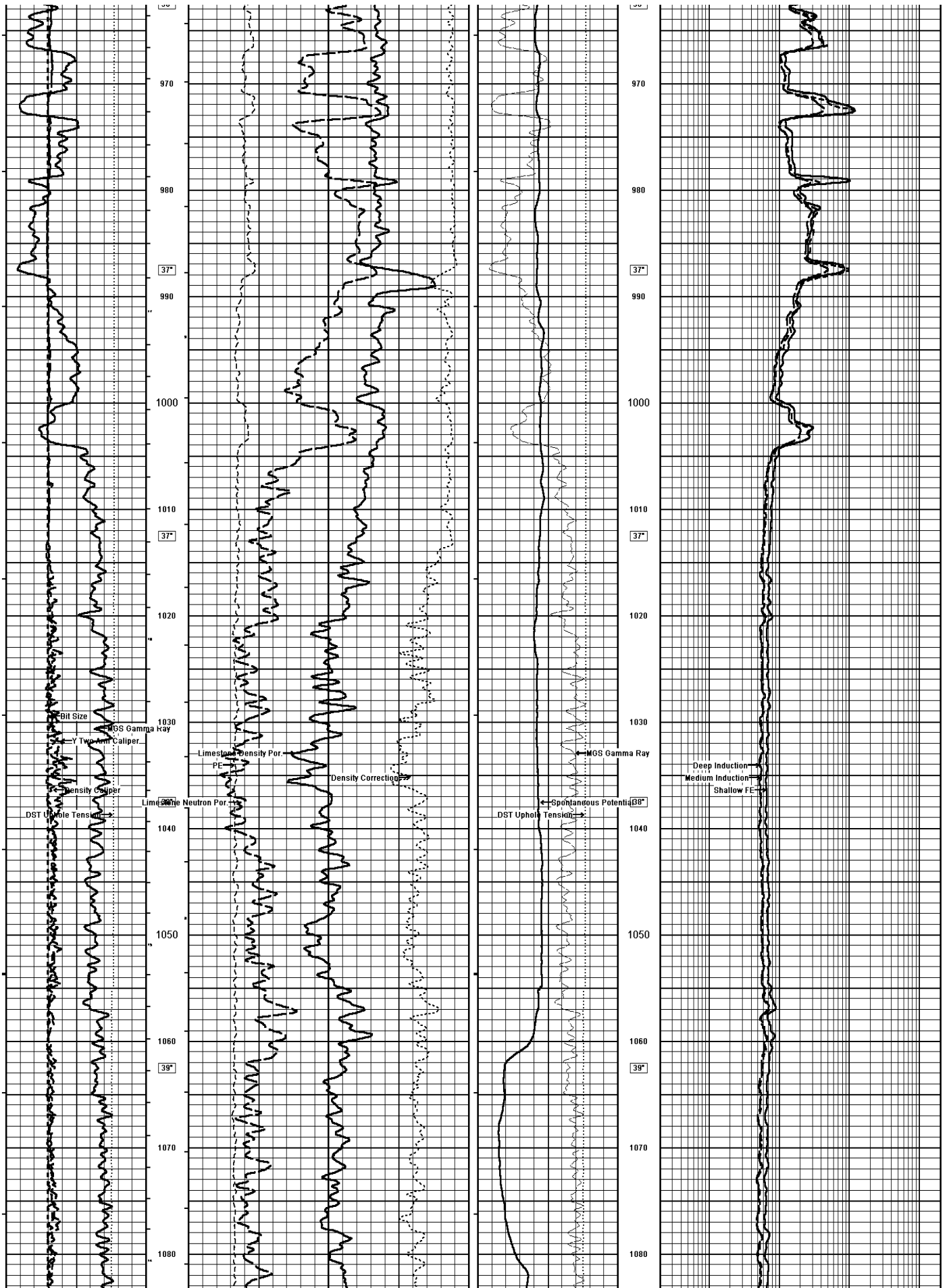


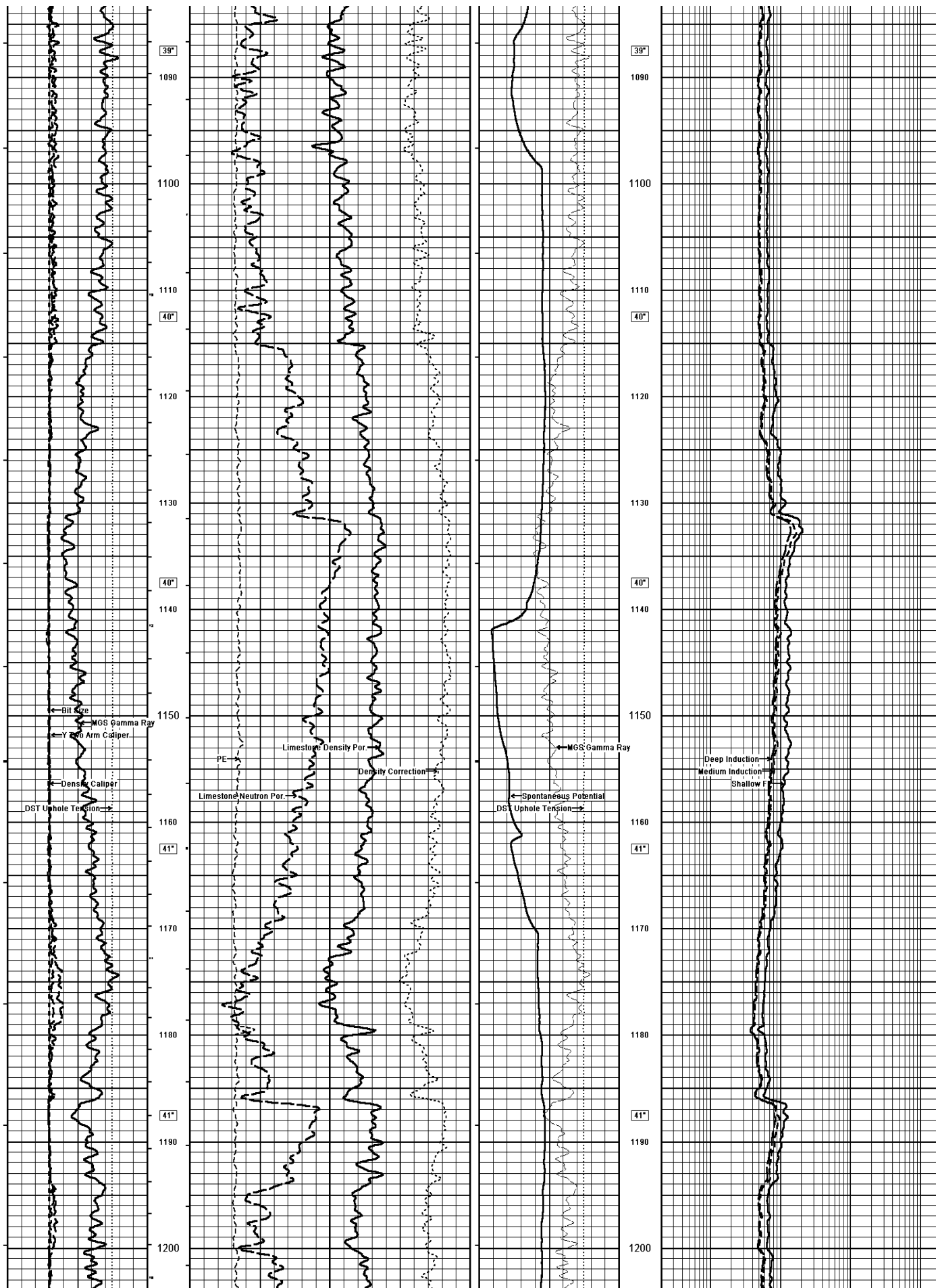


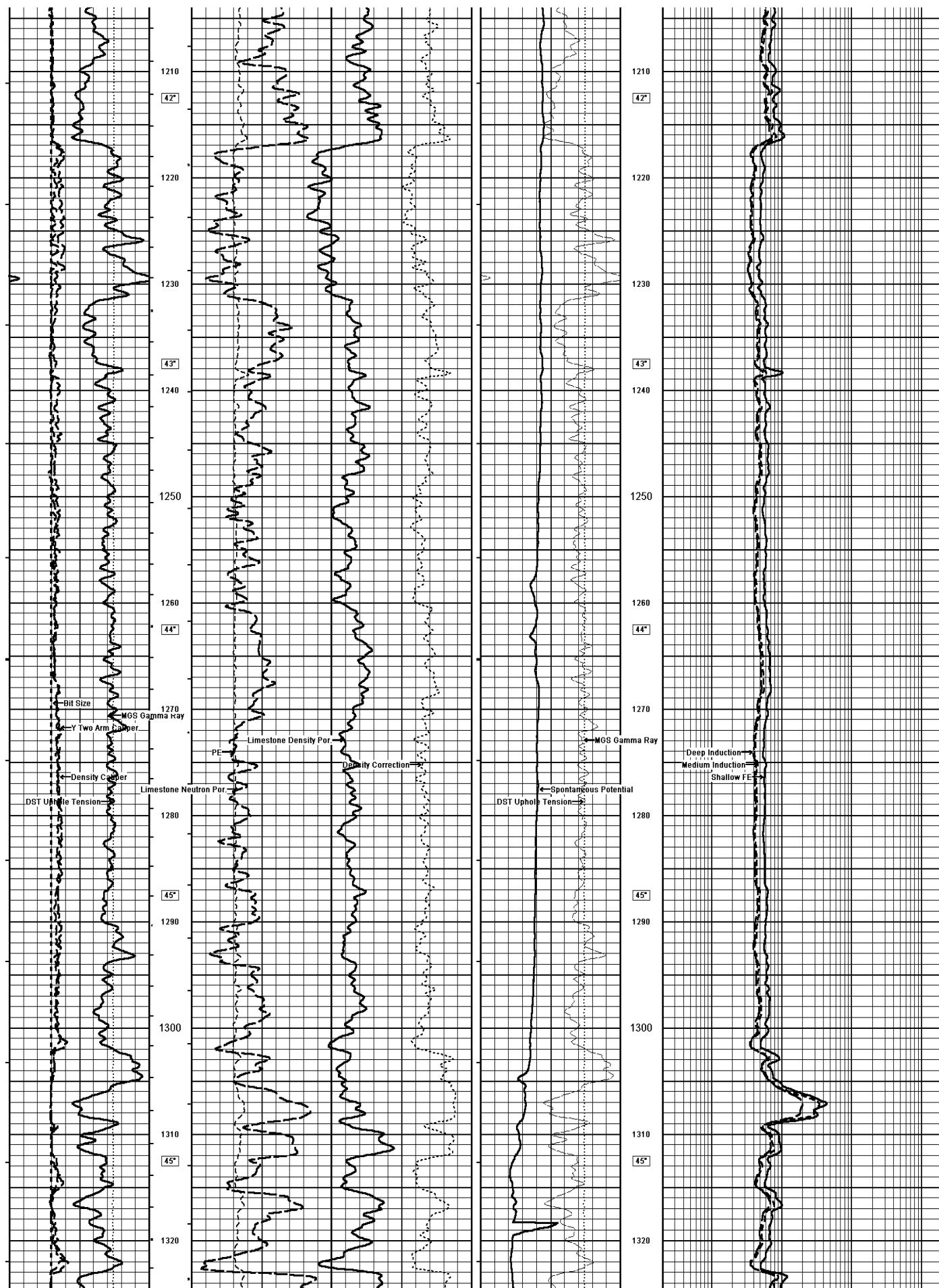


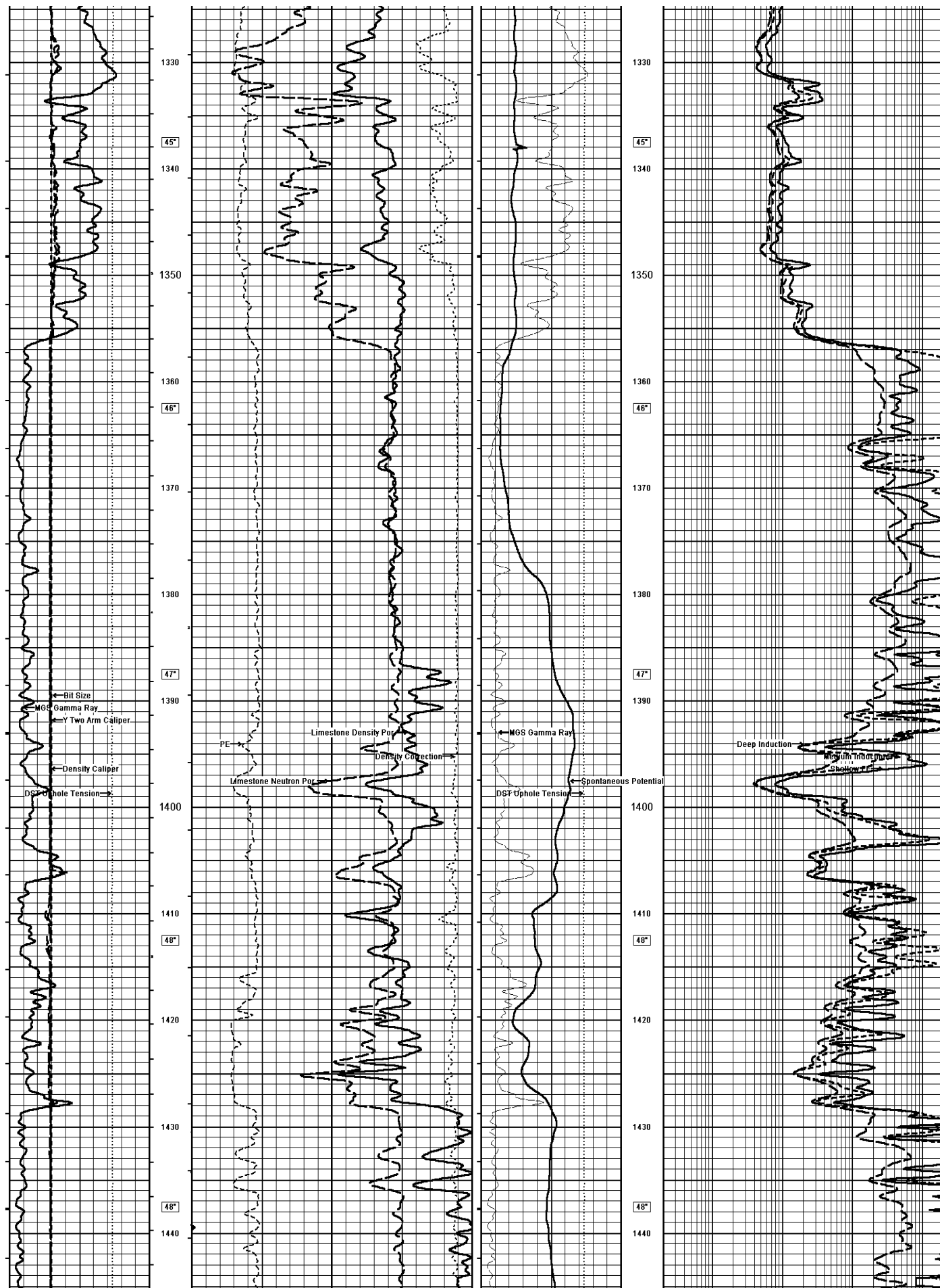


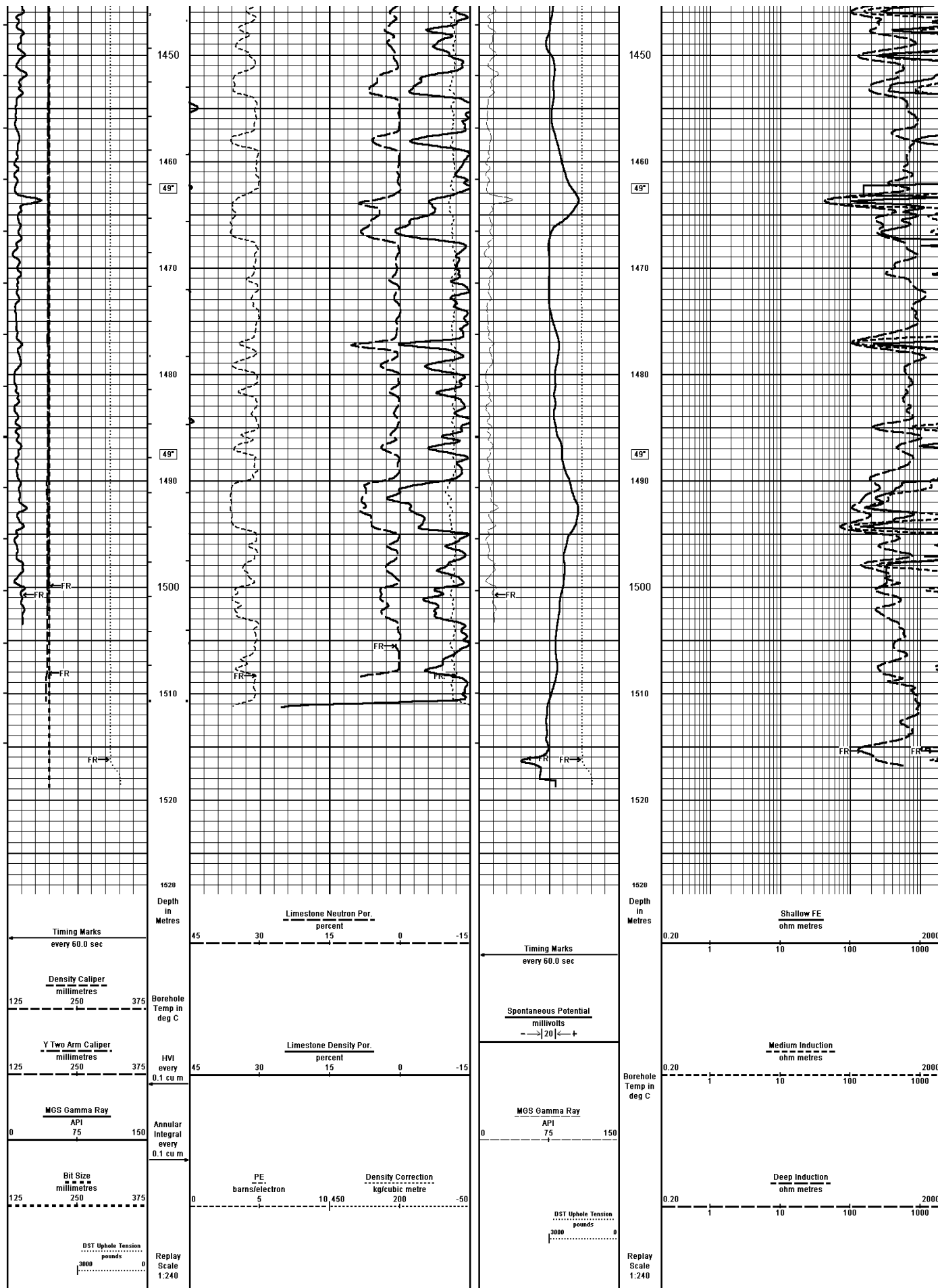


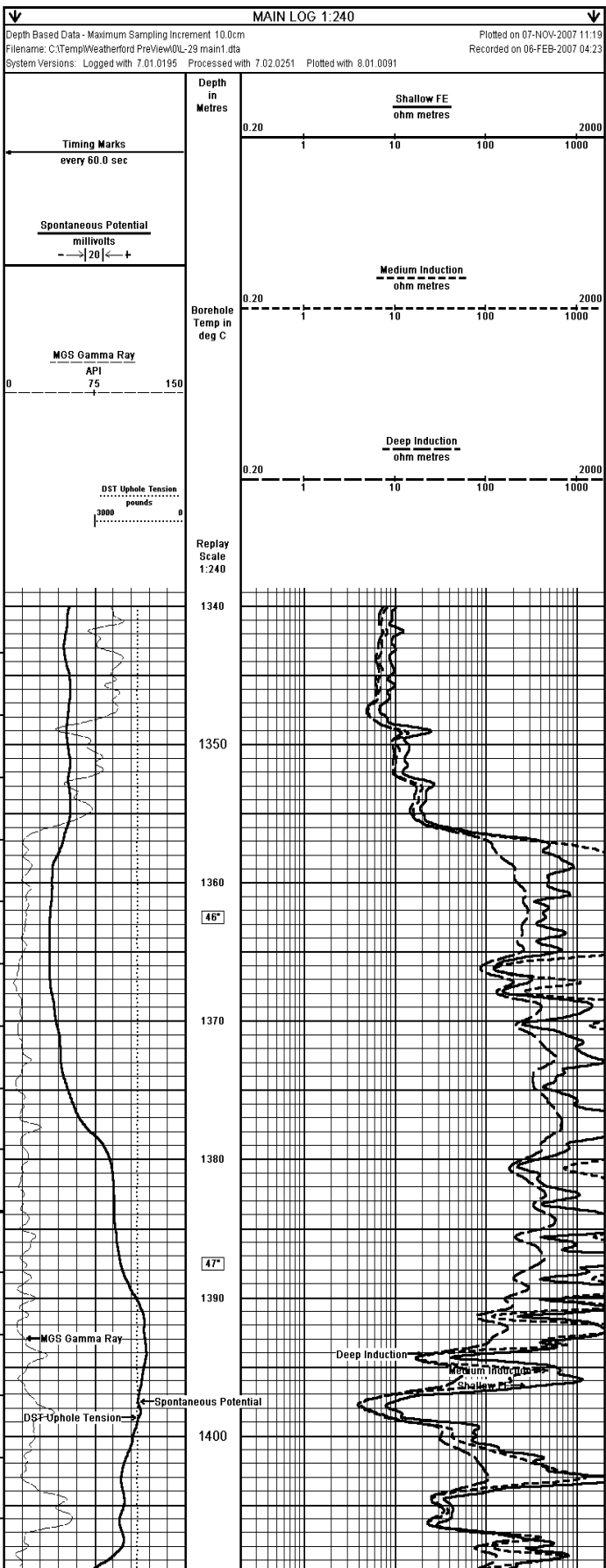
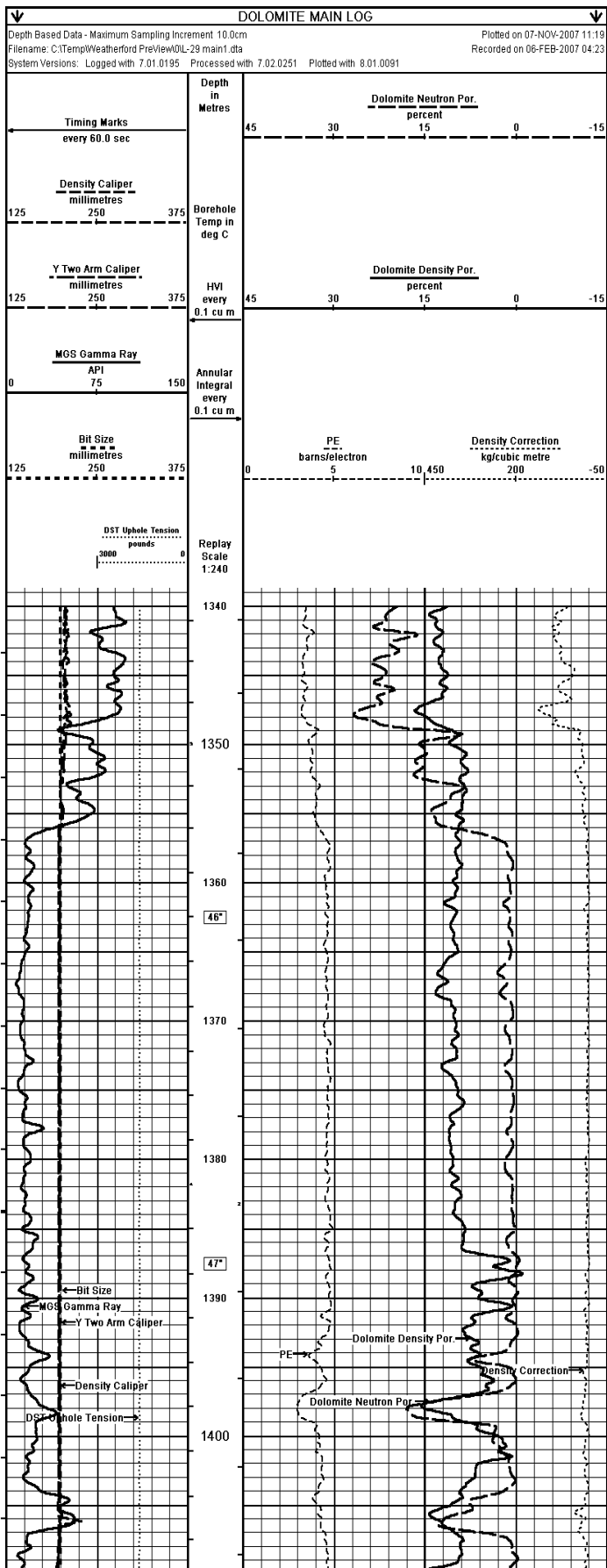




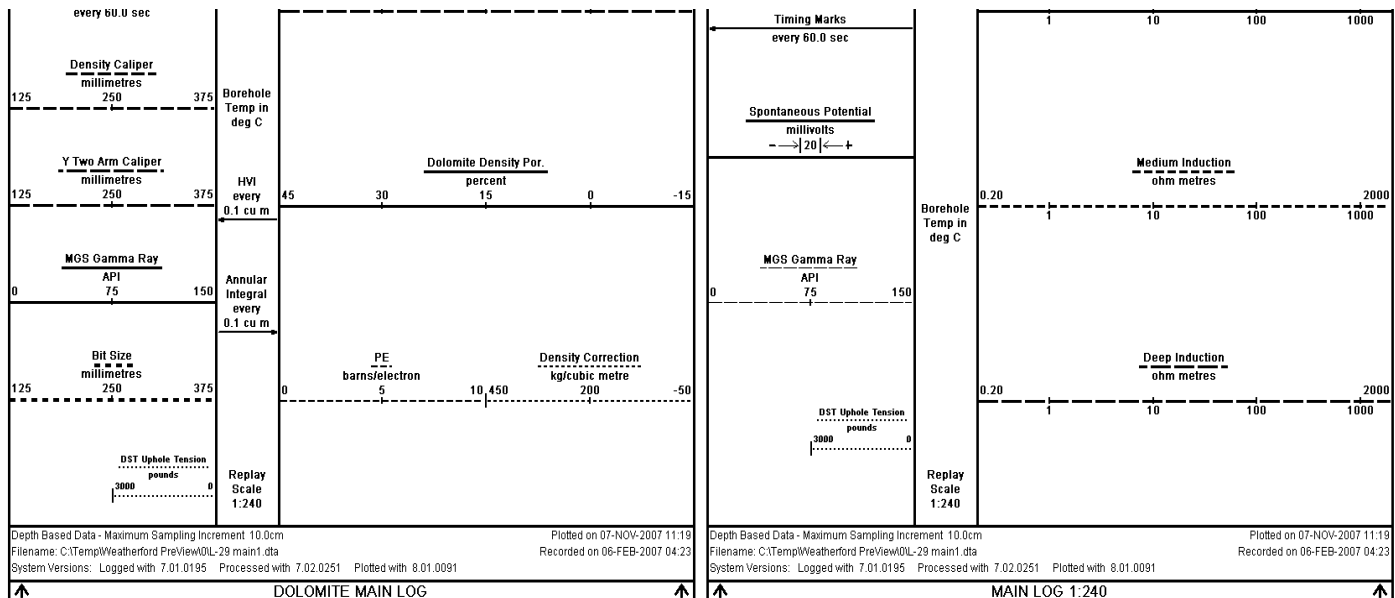












BEFORE SURVEY CALIBRATION

C:\Temp\Weatherford PreView\0\L-29 rpt.dta

General Constants All 000

Last Edited on 6-FEB-2007,03:32

General Parameters

Mud Resistivity	0.690	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	Y Two Arm Caliper	
Annular Volume Diameter	139.700	mm
Caliper for Differential Caliper	Density Caliper	

Rwa Parameters

Porosity used	Base Density Porosity	
Resistivity used	Deep Induction	
RWA Constant A	0.610	
RWA Constant M	2.150	

Gamma Calibration MCG 159

Field Calibration on 5-FEB-2007,23:16

	Measured	Calibrated (API)
Background	50	34
Calibrator (Gross)	1224	828
Calibrator (Net)	1174	794

Gamma Constants MCG 159

Last Edited on 6-FEB-2007,02:31

Gamma Calibrator Number	GRCC075	
Mud Density	1135.00	kg/m3
Caliper Source for Processing	Density Caliper	
Tool Position	Centred	
Concentration of KCl	0.00	kppm

SP Calibration MCG 159

Field Calibration on 25-JAN-2007 17:35

	Measured	Calibrated (mV)
Reference 1	99.9	99.5

Reference 2	-99.3	-99.5	
High Resolution Temperature Calibration MCG 159			Field Calibration on 28-NOV-2006,15:40
	Measured	Calibrated(Deg C)	
Lower	10.00	10.00	
Upper	50.00	50.00	
High Resolution Temperature Constants MCG 159			Last Edited on 28-NOV-2006,15:40
Pre-filter Length	11		
FE Calibration MFE 017			Base Calibration on 25-JAN-2007 17:46 Field Check on 1-FEB-2007 08:10
Base Calibration			
	Measured	Calibrated (ohm-m)	
Reference 1	0.0	0.0	
Reference 2	971.0	126.8	
Base Check		279.5	
Field Check		280.6	
FE Constants MFE 017			Last Edited on 29-JAN-2007,21:47
Caliper Source for FE correction	Density Caliper		
Rm Source for FE correction	Temperature Corr		
Temp. for Rm Corr.	MCG External Temperature		
Stand-off	Centred	millimetres	
Caliper Calibration MTC 006			Base Calibration on 25-JAN-2007,18:14 Field Calibration on 6-FEB-2007,03:31
Base Calibration			
Reading No	Measured	Calibrator Size (mm)	
1	14734	110.00	
2	17539	162.00	
3	20248	212.00	
4	22990	262.00	
5	25897	311.00	
6	N/A	N/A	
Field Calibration			
	Measured Caliper (mm)	Actual Caliper (mm)	
	208.40	205.70	
Gamma Calibration MGS 010			Field Calibration on 5-FEB-2007,23:15
	Measured	Calibrated (API)	
Background	48	31	
Calibrator (Gross)	1256	825	
Calibrator (Net)	1208	794	
Gamma Constants MGS 010			Last Edited on 6-FEB-2007,02:31
Gamma Calibrator Number	grcc075		
Mud Density	1135.00	kg/m3	
Caliper Source for Processing	Density Caliper		
Tool Position	Centred		
Concentration of KCl	0.00	kppm	
SP Calibration MGS 010			Field Calibration on 8-NOV-2006,19:47
	Measured	Calibrated (mV)	
Reference 1	0.0	0.0	
Reference 2	10.0	10.0	
High Resolution Temperature Calibration MGS 010			

	Measured	Calibrated(Deg C)
Lower	10.00	10.00
Upper	50.00	50.00
High Resolution Temperature Constants MGS 010		
Pre-filter Length	11	
Micro Normal and Micro Inverse Calibration MML 015		Base Calibration on 25-JAN-2007,17:08 Field Check on 31-JAN-2007 18:48
Base Calibration		
Channel	Resistor 1	Resistor 2
Micro Normal	9.9	48.5
Micro Inverse	9.9	48.7
Channel	Resistor 1	Resistor 2
Micro Normal	5.1	25.6
Micro Inverse	3.4	16.9
Channel	Base Check (ohm-m)	Field Check (ohm-m)
Micro Normal	79.8	0.0
Micro Inverse	52.6	0.0
Micro Normal and Micro Inverse Constants MML 015		Last Edited on 5-FEB-2007,23:14
Micro Normal K Factor	0.5110	
Micro Inverse K Factor	0.3380	
Standoff Offset	N/A	millimetres
Caliper Calibration MML 015		Base Calibration on 25-JAN-2007,18:15 Field Calibration on 6-FEB-2007,03:32
Base Calibration		
Reading No	Measured	Calibrator Size (mm)
1	13860	162.00
2	17089	212.00
3	20617	262.00
4	24375	311.00
5	27976	355.00
6	N/A	N/A
Field Calibration		
	Measured Caliper (mm)	Actual Caliper (mm)
	211.00	205.70
Neutron Calibration MDN 144		Base Calibration on 25-JAN-2007 18:05 Field Check on 5-FEB-2007 23:56
Base Calibration		
	Measured	Calibrated (cps)
	Near	Far
	2967	93
Ratio	31.886	33.764
Field Calibrator at Base		
	Calibrated (cps)	
	2065	2999
Ratio	0.689	
Field Check		
	Calibrated (cps)	
	2075	3068
Ratio	0.676	
Neutron Constants MDN 144		Last Edited on 18-JAN-2007,02:18
Neutron Source Id	16145b	
Neutron Jig Number		
Epithermal Neutron	No	
Caliper Source for Processing	Density Caliper	
Stand-off	0.00	mm
Mud Density	1000.00	kg/m3

Base Calibration on 23-JAN-2007 04:10
Field Check on 5-FEB-2007 23:46

Field Check on 5-FEB-2007 23:46

Last Edited on 6-FEB-2007,02:32

0.00

Caliper Calibration MPD 036

Base Calibration on 23-JAN-2007 04:20

Field Calibration on 6-FEB-2007,03:32

Base Calibration

Reading No	Measured	Calibrator Size (mm)
1	18576	110.00
2	28032	162.00
3	37841	212.00
4	48080	262.00
5	57920	311.00
6	N/A	N/A

Field Calibration

Measured Caliper (mm)	Actual Caliper (mm)
206.00	205.70

Sonic Constants MSS 060

Last Edited on 6-FEB-2007,03:32

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
Hunt-Raymer Constant	0.00	0

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	0.0000	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

Induction Calibration MAI 072

Base Calibration on 25-JAN-2007,18:16

Field Check on 6-FEB-2007 03:36

Base Calibration

Test Loop Calibration	Measured	Calibrated (mmho/m)
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Test Loop Calibration		Measured		Calibrated (mmho/m)	
Channel		Low	High	Low	High
1		13.9	459.6	9.3	966.2
2		5.3	373.2	7.6	821.4
3		2.9	254.1	5.2	566.0
4		1.3	130.4	2.6	279.2
Array Temperature		18.5		Deg C	
		Base Check (mmho/m)		Field Check (mmho/m)	
Channel		Low	High	Low	High
1		18.0	3925.2	21.4	3925.8
2		31.0	3598.6	33.0	3598.2
3		29.0	3101.3	30.5	3101.0
4		20.3	2105.9	21.3	2105.5
Deep		18.4	2019.9	19.5	2019.8
Medium		40.9	4089.6	42.7	4089.1
Shallow		45.6	5324.4	48.5	5323.6
Array Temperature		18.5		32.0	Deg C

Induction Constants MAI 072

Last Edited on 6-FEB-2007,03:33

Induction Model		VECTAR	
Caliper for Borehole Corr.		Density Caliper	
Hole Size for Borehole Correction		N/A	
Stand-off		25.40	
Number of Fins on Stand-off		5.0000	
Stand-off Fin Width		25.4000	
Borehole Corr. Rm Source		Temperature Corr	
Temp. for Rm Corr.		MCG External Temperature	
Squasher Start		0.0020	
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 072

Field Calibration on 11-NOV-2006,04:00

	Measured	Calibrated(Deg C)
Lower	1.00	1.00
Upper	10.00	10.00

High Resolution Temperature Constants MAI 072

Pre-filter Length	11
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DOWNHOLE EQUIPMENT

C:\Temp\Weatherford PreView\0\L-29 rpt.dta

Compact Gamma
MCG 159 Length: 2.65 m Weight: 63.9 lb

20.78 m GRGC - Gamma Ray
19.90 m CGXT - MCG External Temperature

Compact Focussed Electric
MFE 17 Length: 1.84 m Weight: 48.5 lb

18.79 m FEFE - Shallow FE

Compact Two Arm Caliper
MTC 6 Length: 2.17 m Weight: 61.7 lb

16.33 m CLYC - Y Two Arm Caliper

Compact Short Gamma
MGS 10 Length: 1.04 m Weight: 24.3 lb

15.46 m GRGM - MGS Gamma Ray

Compact InterSonde Crank
ISC 159 Length: 0.70 m Weight: 24.3 lb

Compact Micro-log
MML 15 Length: 2.43 m Weight: 81.6 lb

12.10 m MINV - Micro-inverse
12.10 m MNRL - Micro-normal
12.10 m MLTC - MML Caliper

Compact Neutron
MDN 144 Length: 1.53 m Weight: 50.7 lb

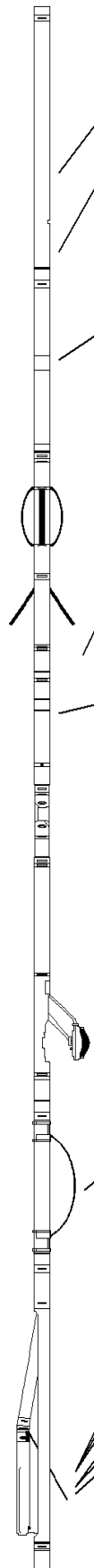
10.64 m NPRS - Sandstone Neutron Por.

Compact Density/Caliper
MPD 36 Length: 2.92 m Weight: 90.4 lb

8.06 m AVOL - Annular Volume
8.06 m HVOL - Hole Volume
8.06 m CLDC - Density Caliper
7.85 m DPRS - Sandstone Density Por.
7.85 m DCOR - Density Correction
7.83 m PDPE - PE

Compact Sonic

3.95 m TR21 - 3' Transit Time

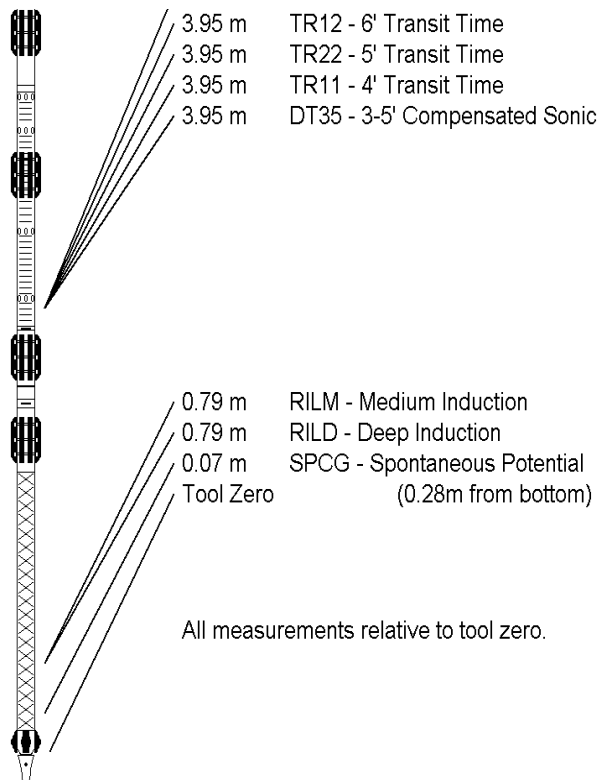


MSS 60 Length: 3.82 m Weight: 72.8 lb

Compact Induction
MAI 72 Length: 3.29 m Weight: 48.5 lb

Compact Hole Finder
HFS 1 Length: 0.24 m Weight: 2.2 lb

Total Length: 22.63 m Weight: 568.8 lb



COMPANY	PARAMOUNT RESOURCES LTD.
WELL	PARA ET AL CAMERON L-29
FIELD	CAMERON HILLS
PROVINCE/COUNTY	NORTHWEST TERRITORIES
COUNTRY/STATE	CANADA

Elevation Kelly Bushing	759.50	metres	First Reading	1515.40	metre
Elevation Drill Floor		metres	Depth Driller	1515.50	metres
Elevation Ground Level	754.10	metres	Depth Logger	1516.70	metres



Weatherford®

MINILOT



PHOTO DENSITY
DUAL SPACED NEUTRON

COMPANY **PARAMOUNT RESOURCES LTD.**
WELL **PARA ET AL CAMERON L-29**
FIELD **CAMERON HILLS**
PROVINCE/COUNTY **NORTHWEST TERRITORIES**
COUNTRY/STATE **CANADA**
LOCATION **300L296010117300** **FIELD PRINT**

LSD SEC TWP RGE Other Services
API Number **2041** **ARRAY INDUCTION**
COMPENSTATED SONIC
MICROLOG

Permanent Datum GROUND LEVEL, Elevation 754.1 metres
Log Measured From 5.4 M above Permanent Datum
Drilling Measured From KB

Elevations:
KB 759.50
DF 754.10
GL

Date	05-FEB-2006	
Run Number	1	
Depth Driller	1515.50	metres
Depth Logger	1516.70	metres
First Reading	1508.40	metre
Last Reading	0.00	metre
Casing Driller	435.50	metres
Casing Logger	436.00	metres
Bit Size	200.00	mm
Hole Fluid Type	GEL CHEM	
Density / Viscosity	1135.0 kg/M3	80.00 CP
PH / Fluid Loss	10.50	10.00 ml/30Min
Sample Source	FLOWLINE	
Rm @ Measured Temp	0.92 @ 25.0	ohm-m
Rmf @ Measured Temp	0.69 @ 25.0	ohm-m
Rmc @ Measured Temp	1.12 @ 25.0	ohm-m
Source Rmf / Rmc	PRESS	FILTER
Rm @ BHT	0.60 @ 49.0	ohm-m
Time Since Circulation	7.0 HRS	
Max Recorded Temp	49.00	deg C
Equipment Name	COMPACT	
Equipment / Base	QUINT	GPR
Recorded By	M. BONNELL	
Witnessed By	B. POWELL	
CIRC. STOP TIME	FEB-05 21:00	Last Line

BOREHOLE RECORD

Last Edited: 5-FEB-2007 23:19

Bit Size millimetres	Depth From metres	Depth To metres
311.000	0.00	435.50
200.000	435.50	1515.50

CASING RECORD

Type	Size millimetres	Depth From metres	Shoe Depth metres	Weight Kg/metre
SURFACE	219.100	0.00	435.50	35.72

REMARKS

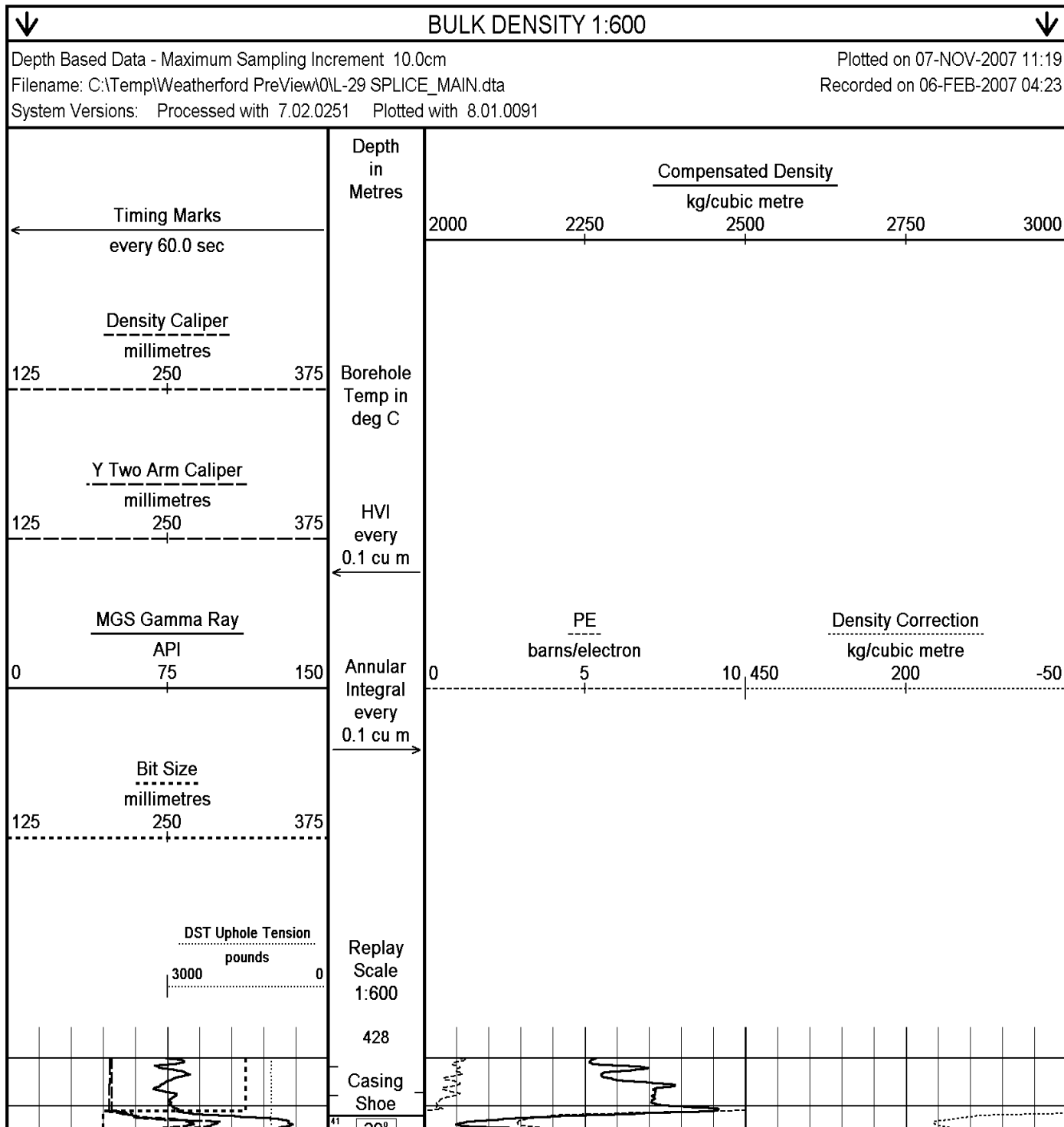
- 1) SOFTWARE ISSUE: WLS 7.01.0195.
- 2) CUSTOMER SCALES AND LOGGED INTERVALS USED
- 3) TOOLS RUN: MAI, MSS, MPD, MDN, MML, ISC, MGS, MTC, MFE, MCG RUN IN COMBINATION
- 4) HARDWARE: MAI: TWO 25.4 MM STANDOFFS
MSS: THREE 25.4 MM STANDOFFS
MDN: DUAL BOWSPRING AND INTERSONDE CRANK
MTC: SIX LEAF CENTRALIZER

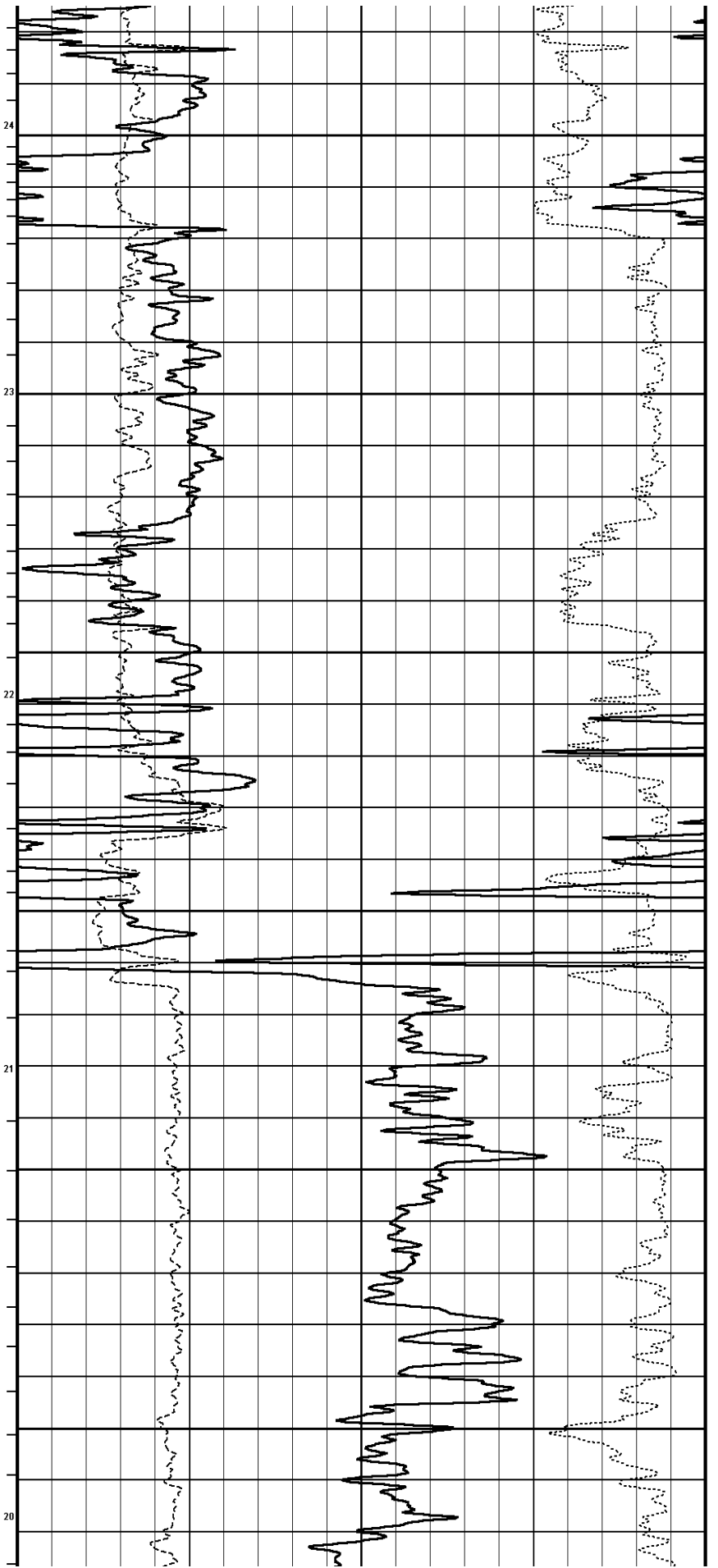
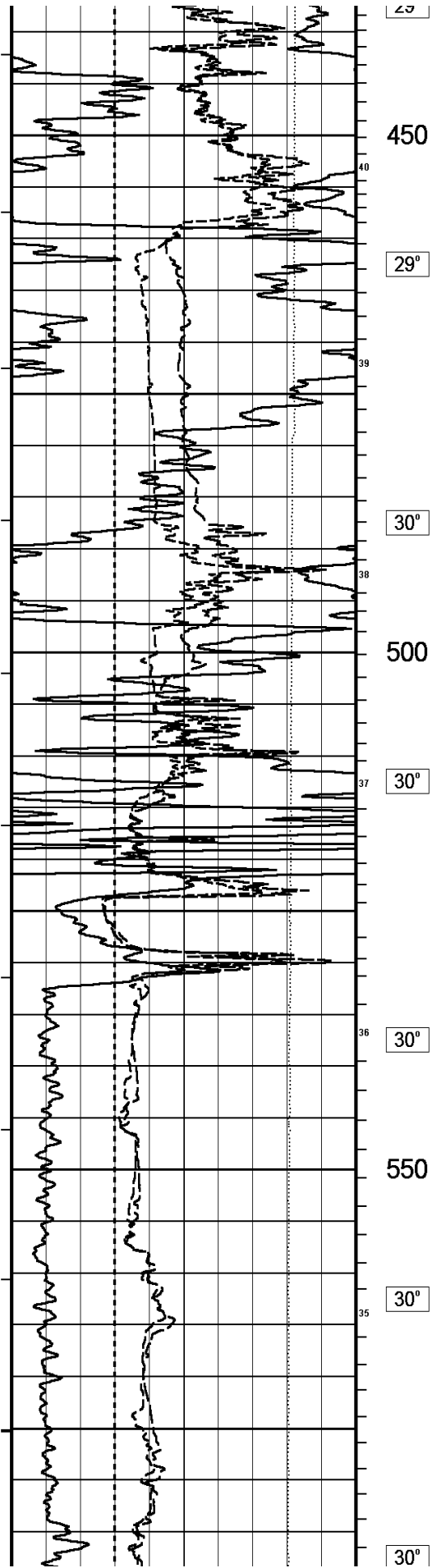
5) SERVICE ORDER #: 30073223

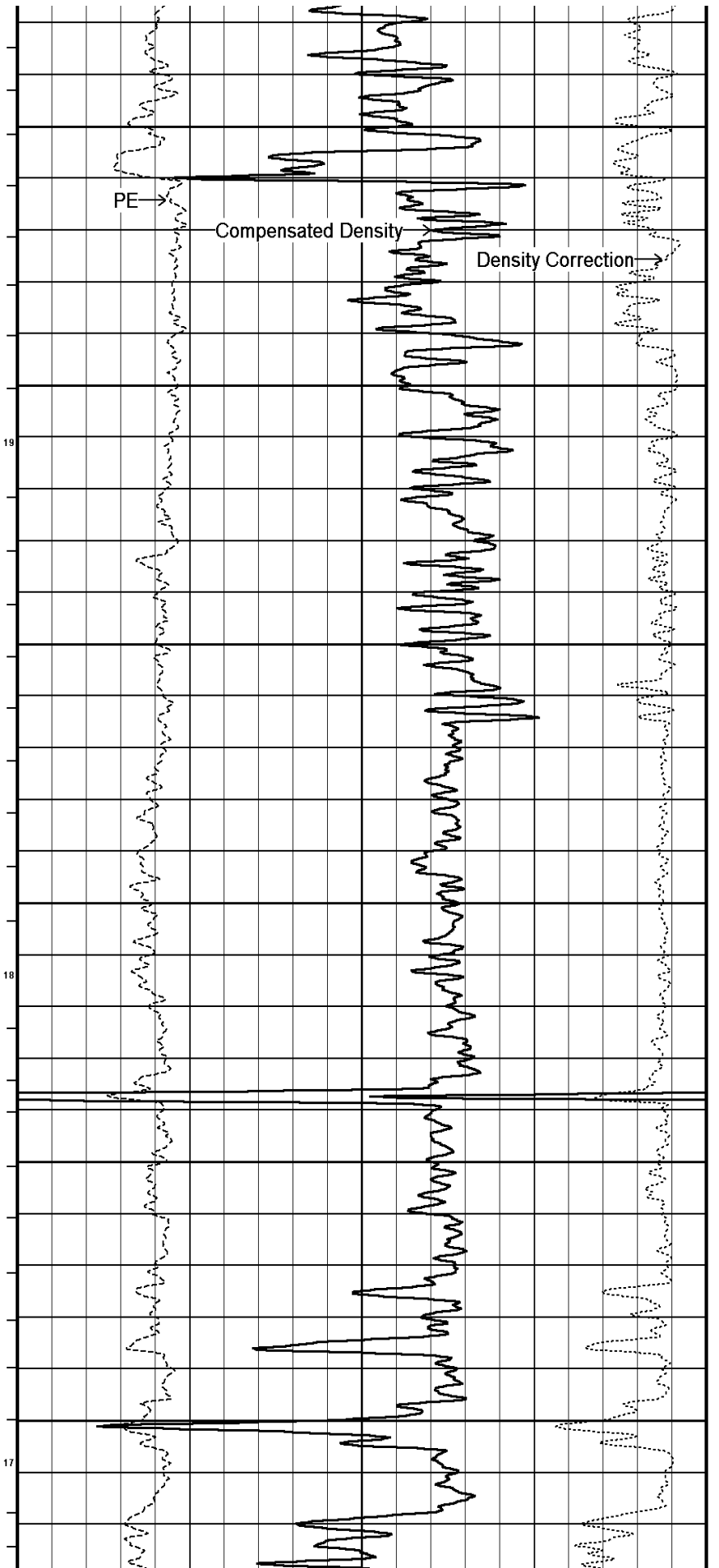
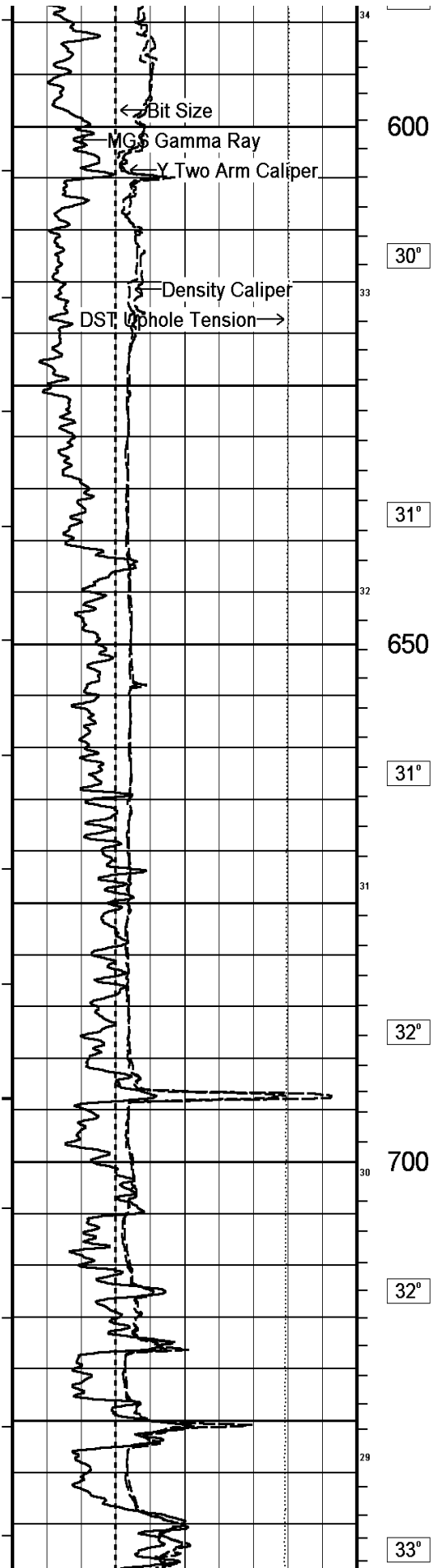
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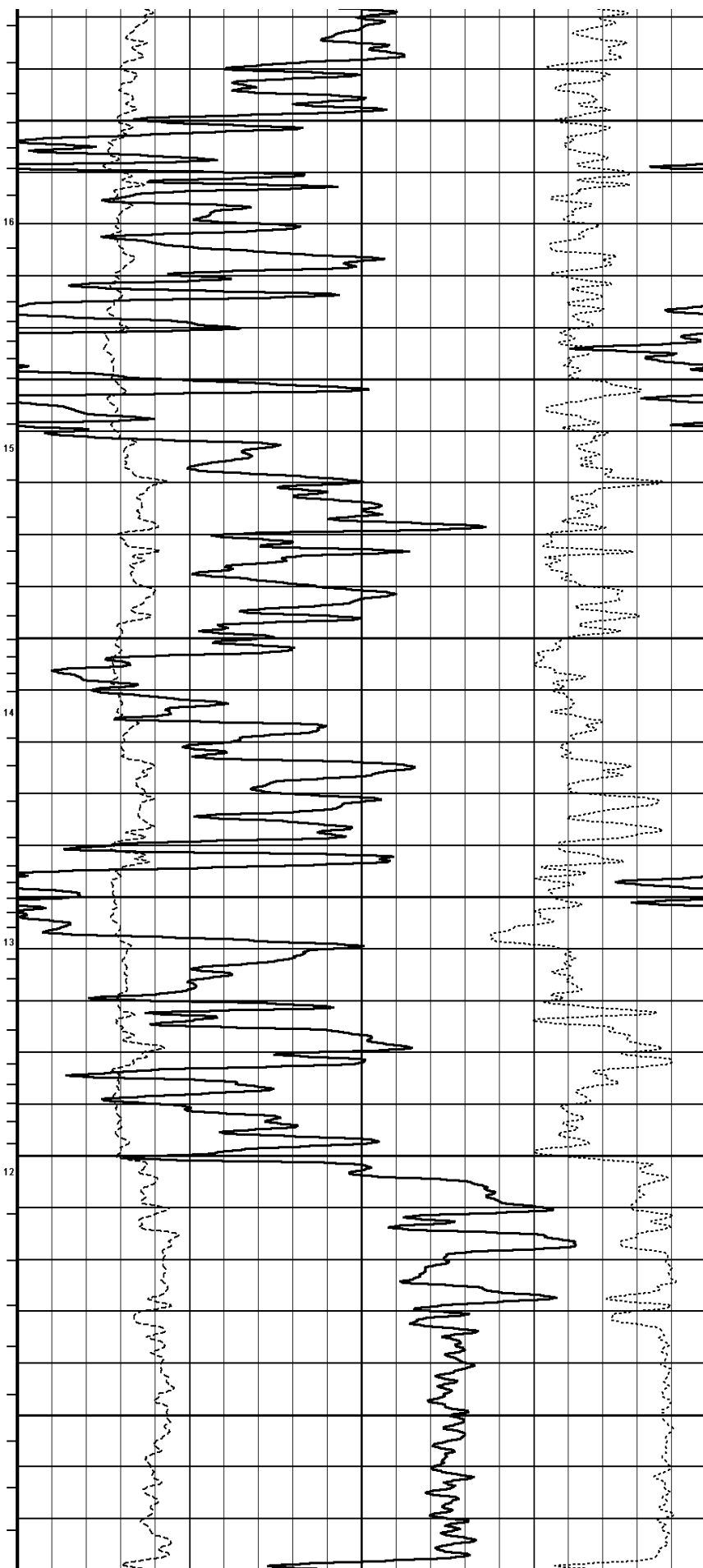
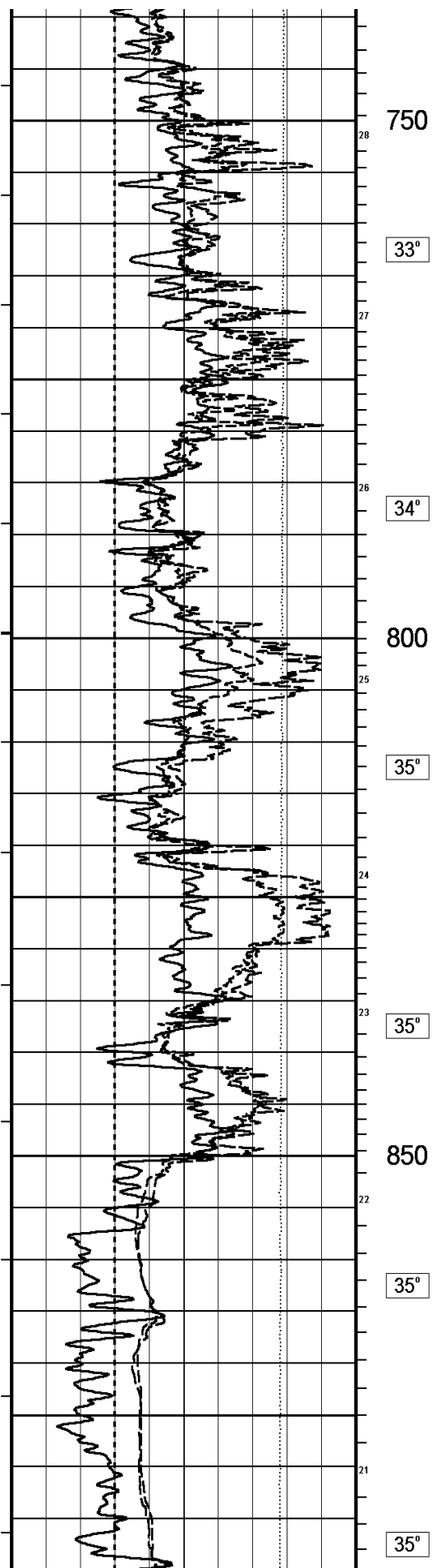
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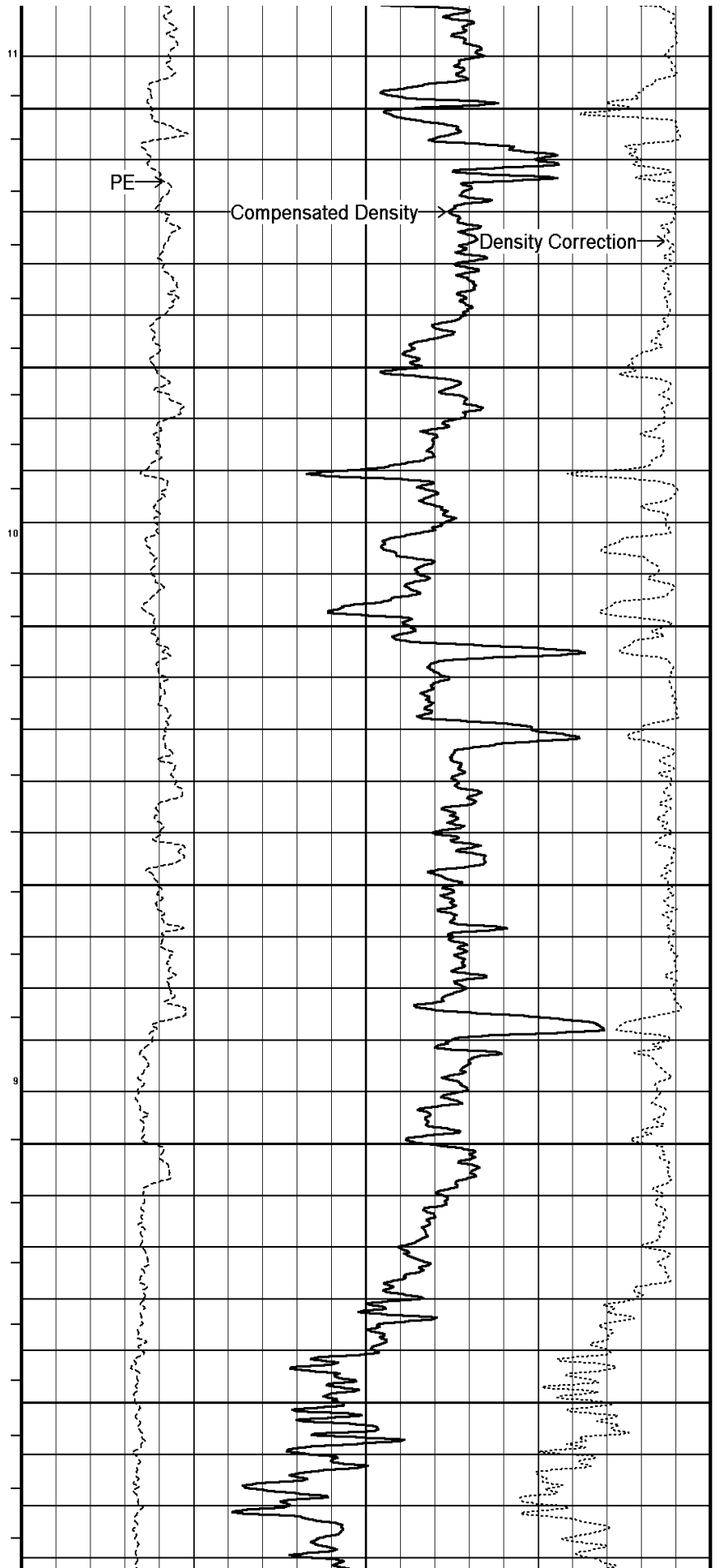
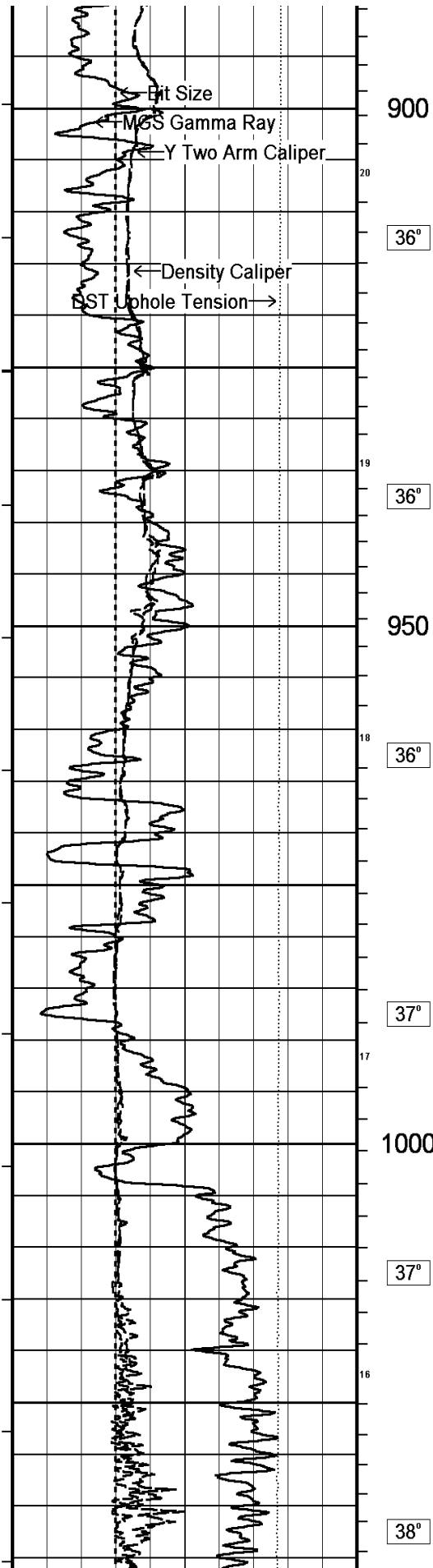
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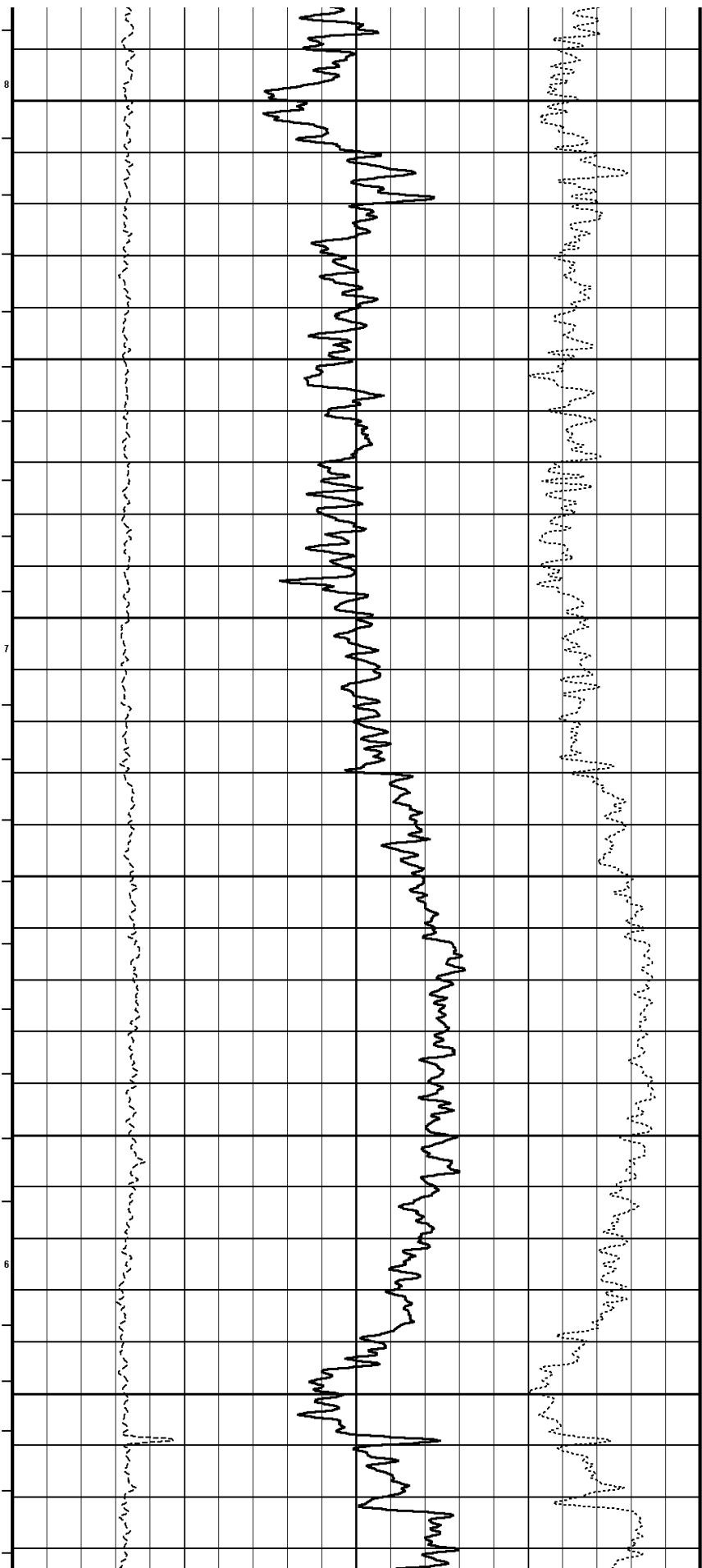
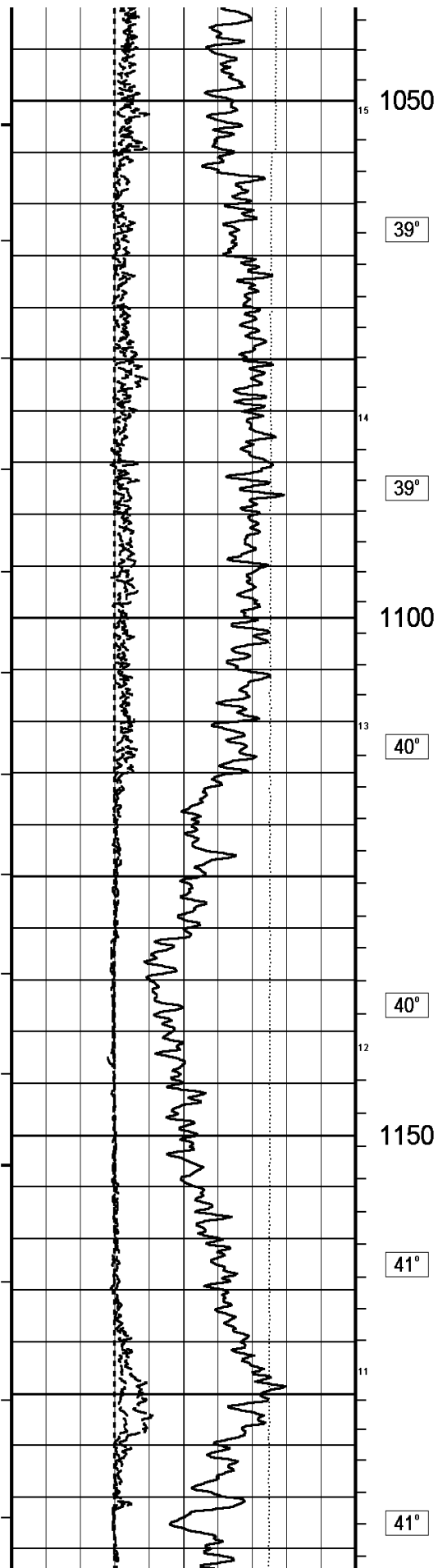


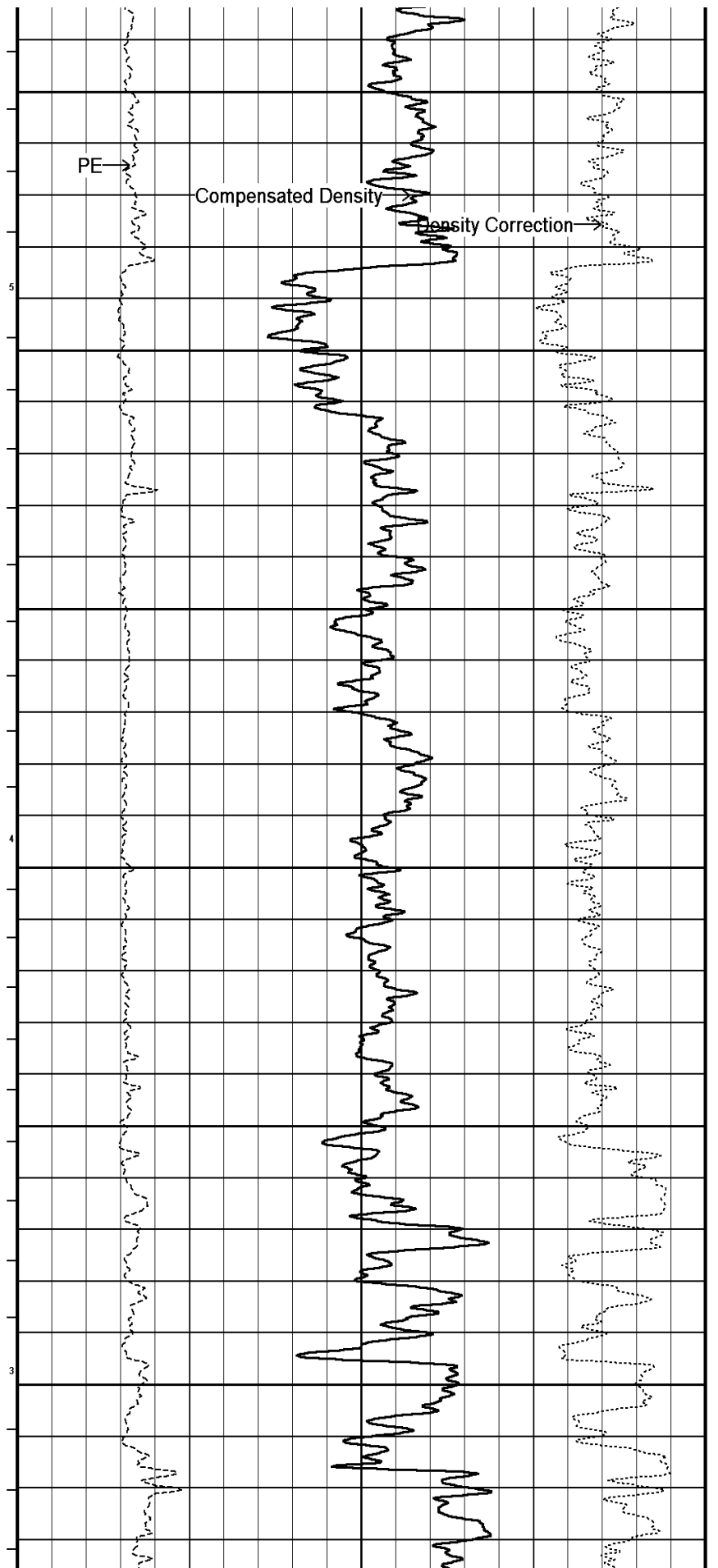
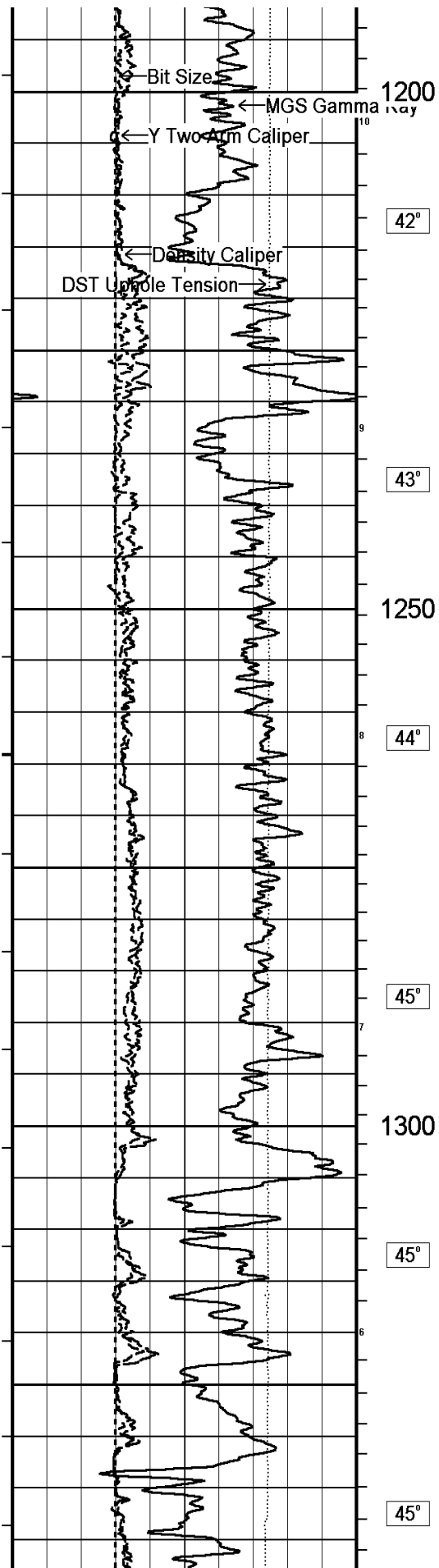


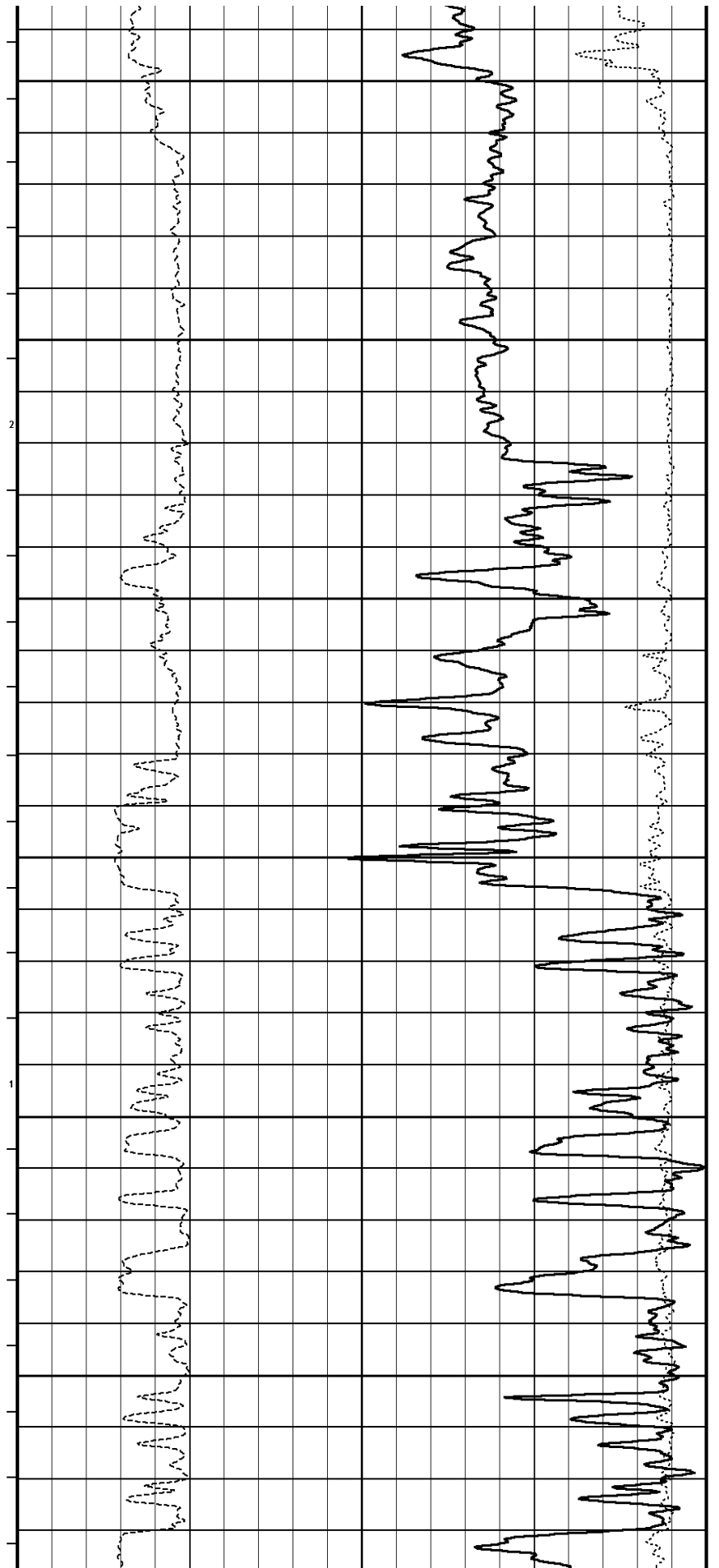
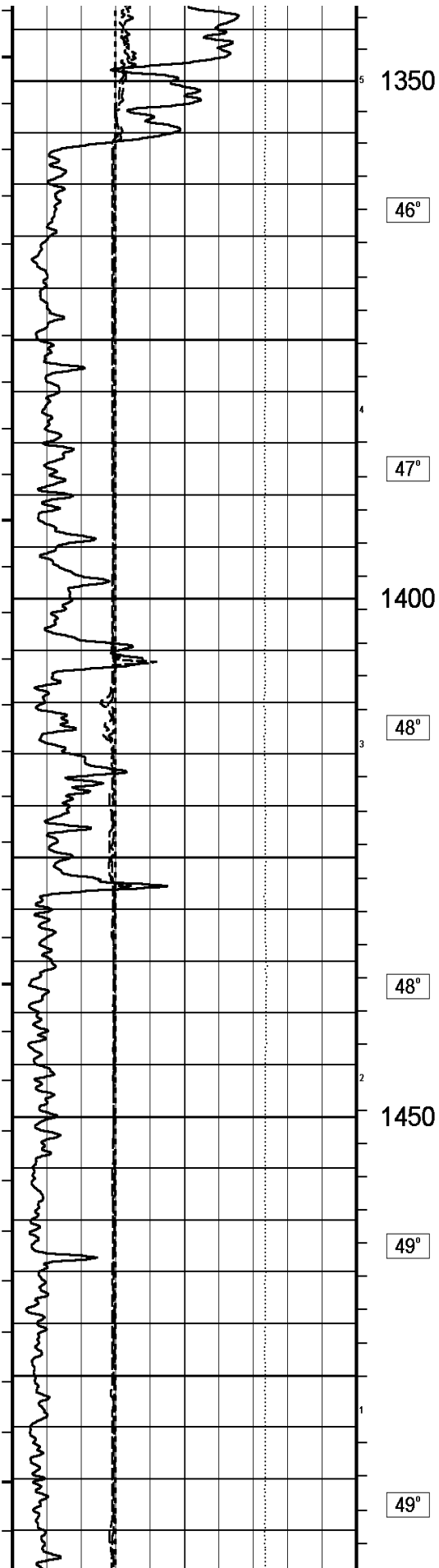


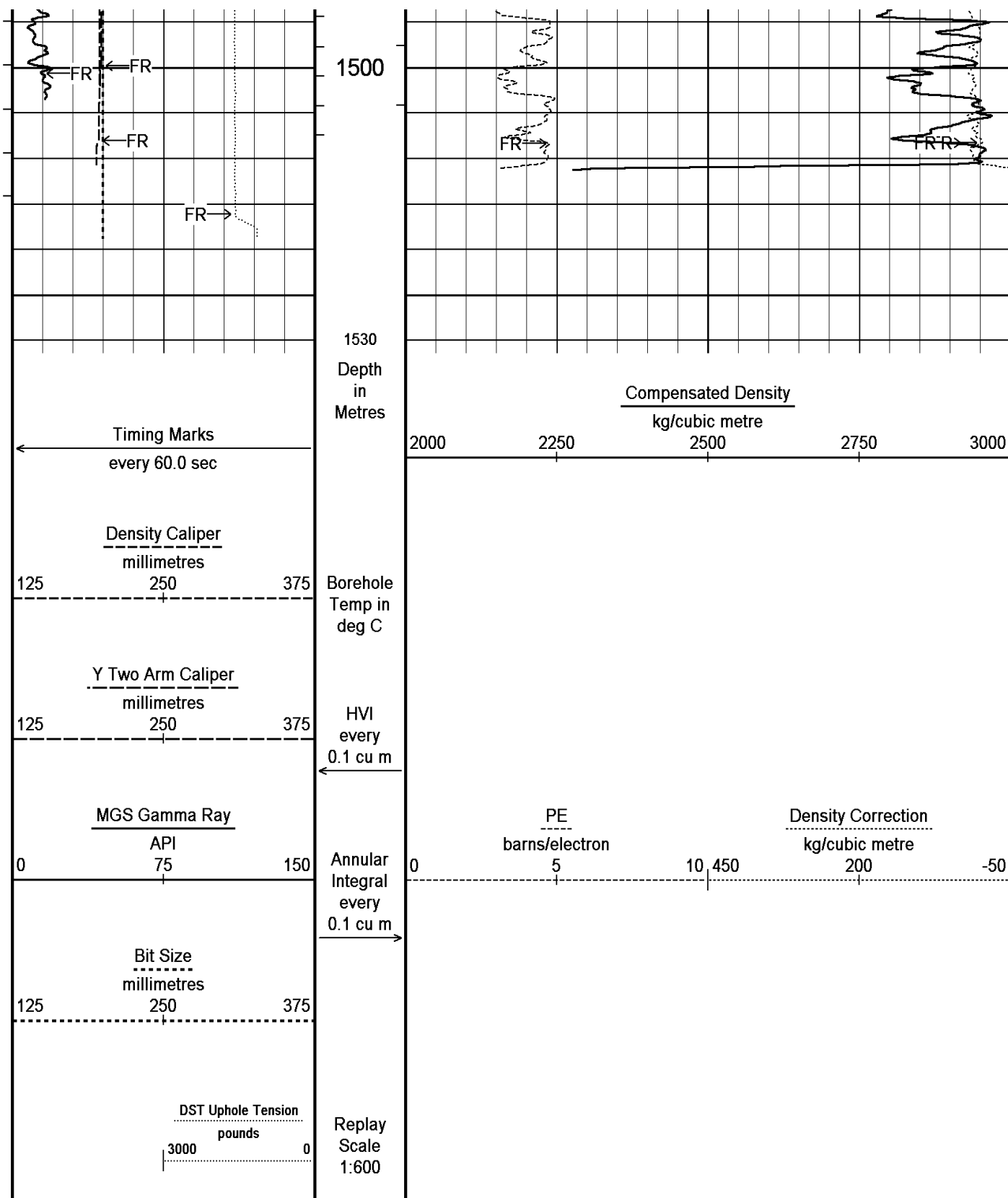












Depth Based Data - Maximum Sampling Increment 10.0cm

Filename: C:\Temp\Weatherford PreView\01L-29 SPLICE_MAIN.dta

System Versions: Processed with 7.02.0251 Plotted with 8.01.0091

Plotted on 07-NOV-2007 11:19

Recorded on 06-FEB-2007 04:23

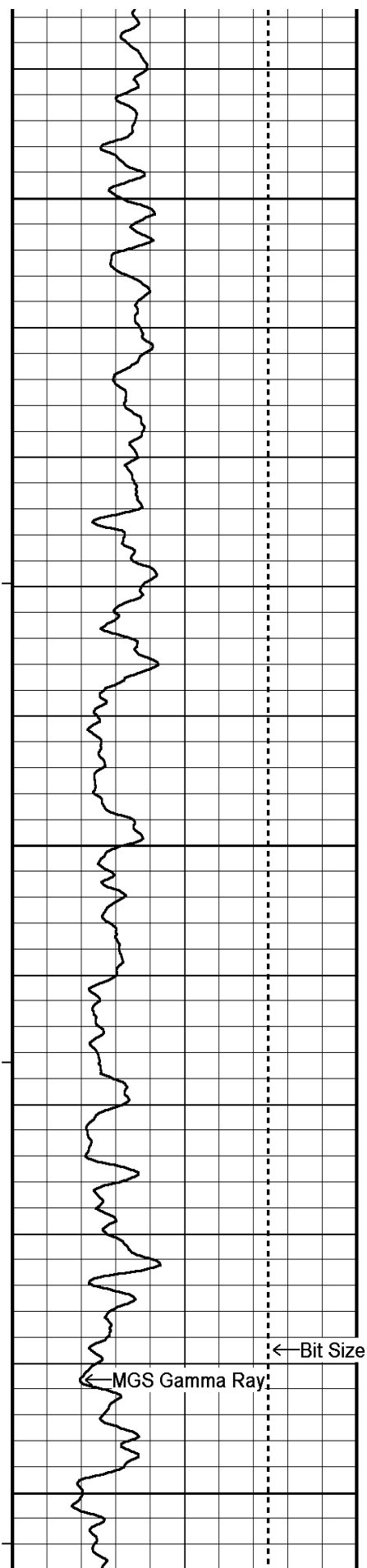
↑ BULK DENSITY 1:600 ↑

↓ LIMESTONE MAIN LOG ↓

Plotted on 07-NOV-2007 11:19

Recorded on 06-FEB-2007 04:23

Timing Marks every 60.0 sec		Depth in Metres	Limestone Neutron Por. percent	
125	250	375	45	30
Density Caliper millimetres		Borehole Temp in deg C	15	0
Y Two Arm Caliper millimetres		HVI every 0.1 cu m	-15	
125	250	375	45	30
MGS Gamma Ray API		Annular Integral every 0.1 cu m	15	0
0	75	150	-15	
Bit Size millimetres		PE barns/electron	Density Correction kg/cubic metre	
125	250	375	0	5
DST Uphole Tension pounds		10	10	450
3000	0		200	-50
Replay Scale 1:240				
0				
10				



20

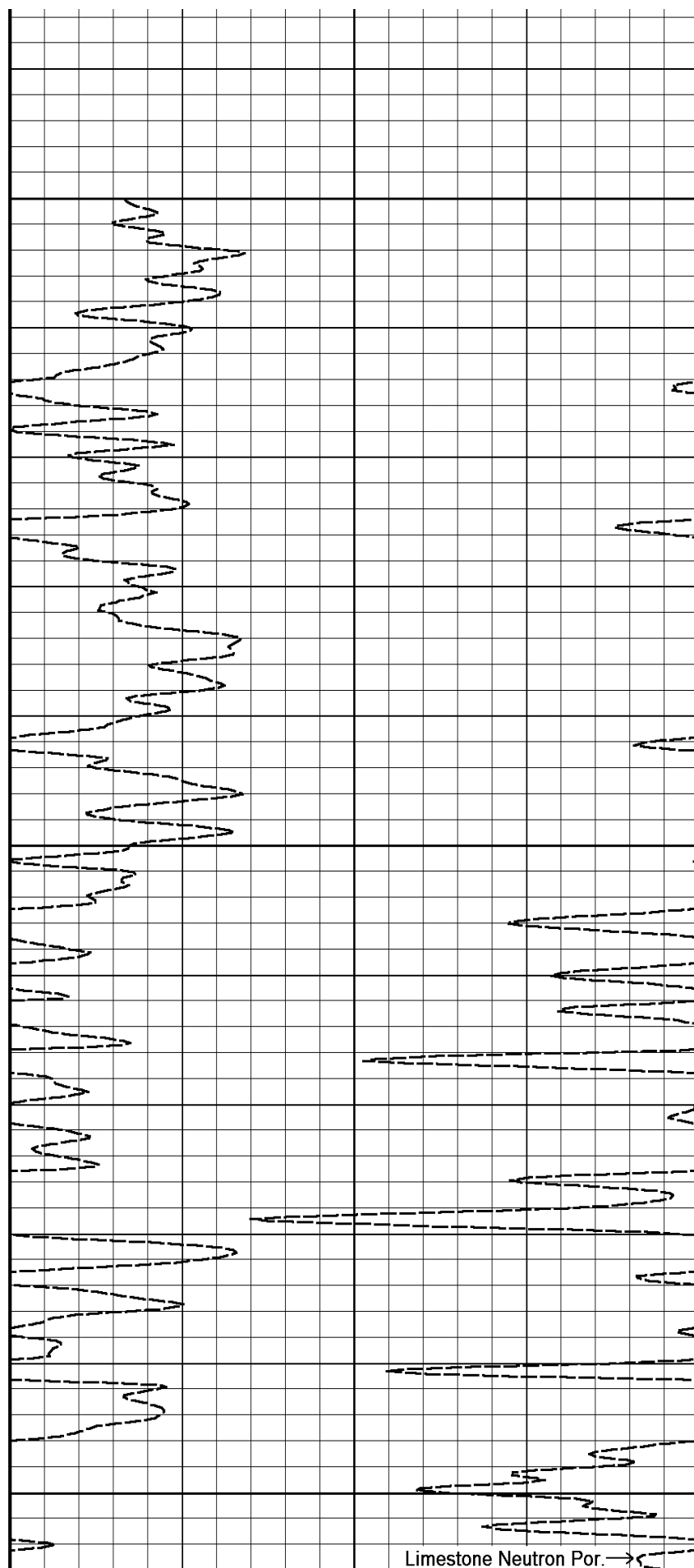
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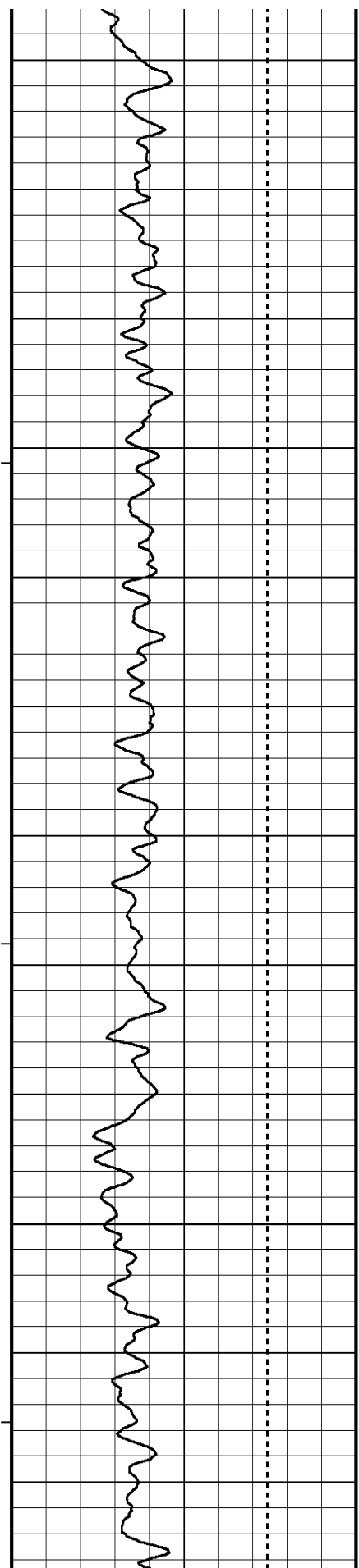
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50

60

70





80

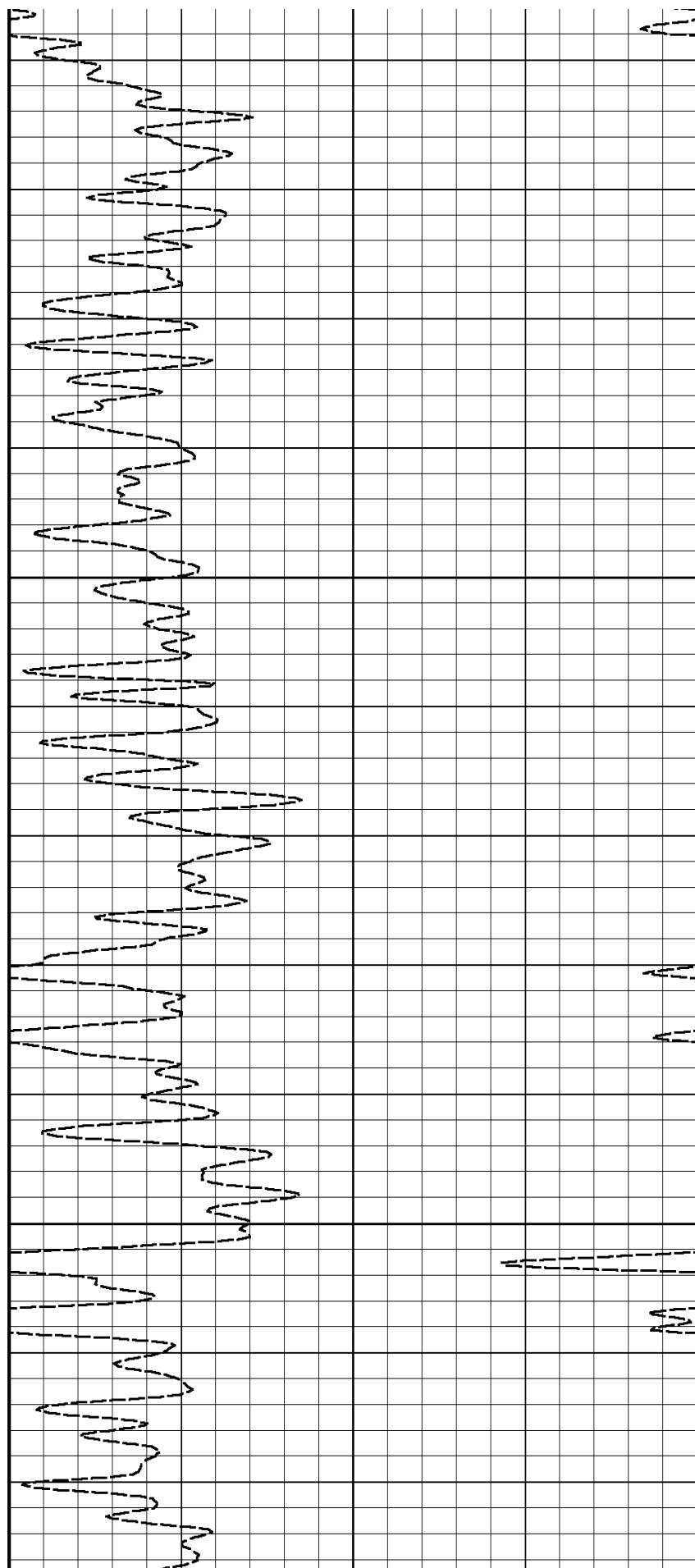
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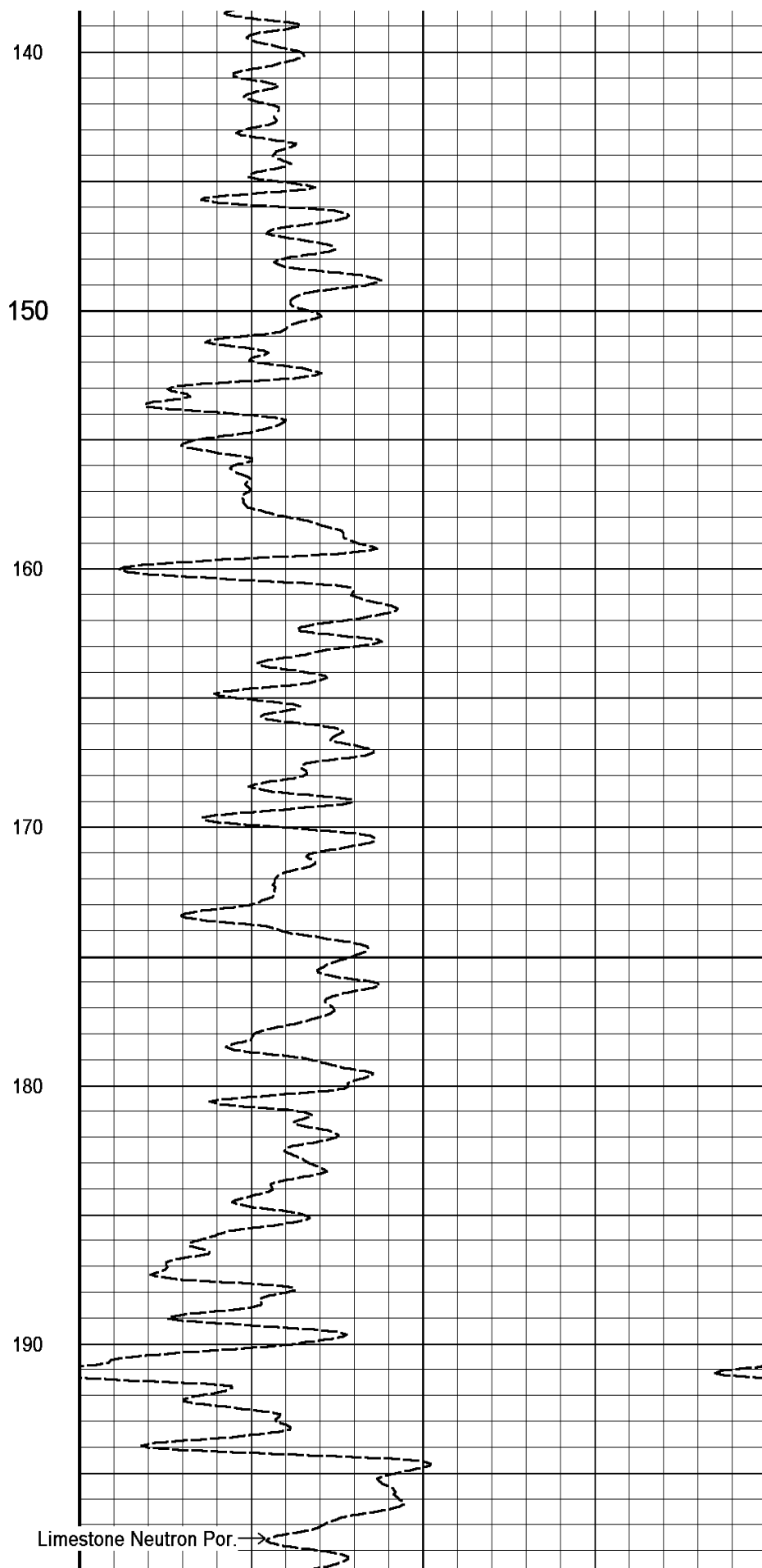
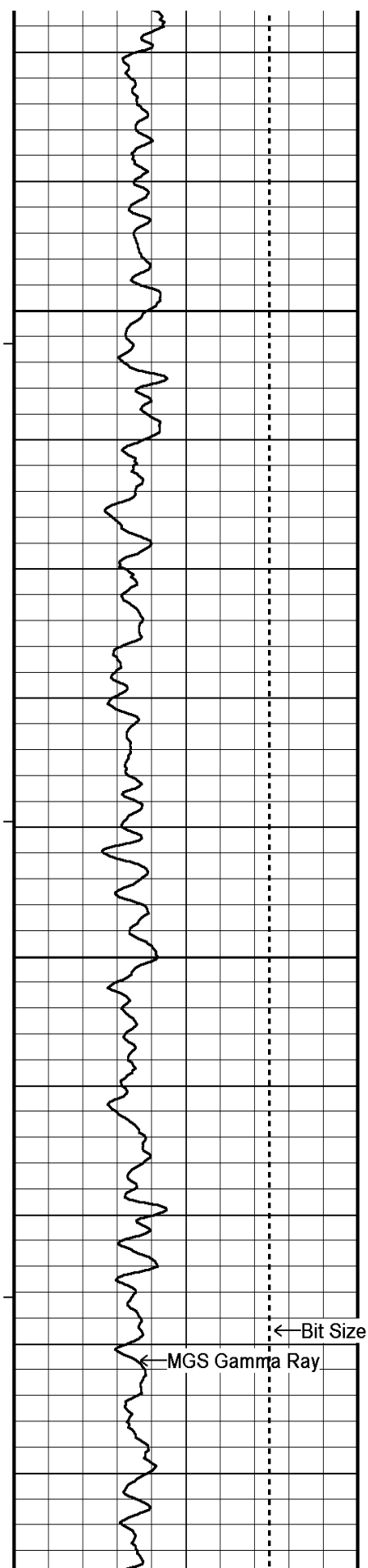
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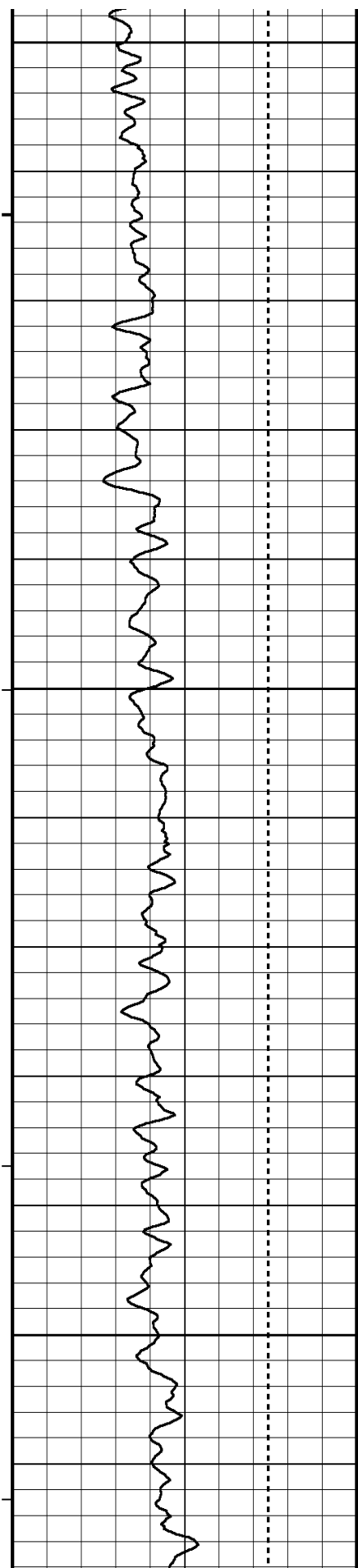
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120

130







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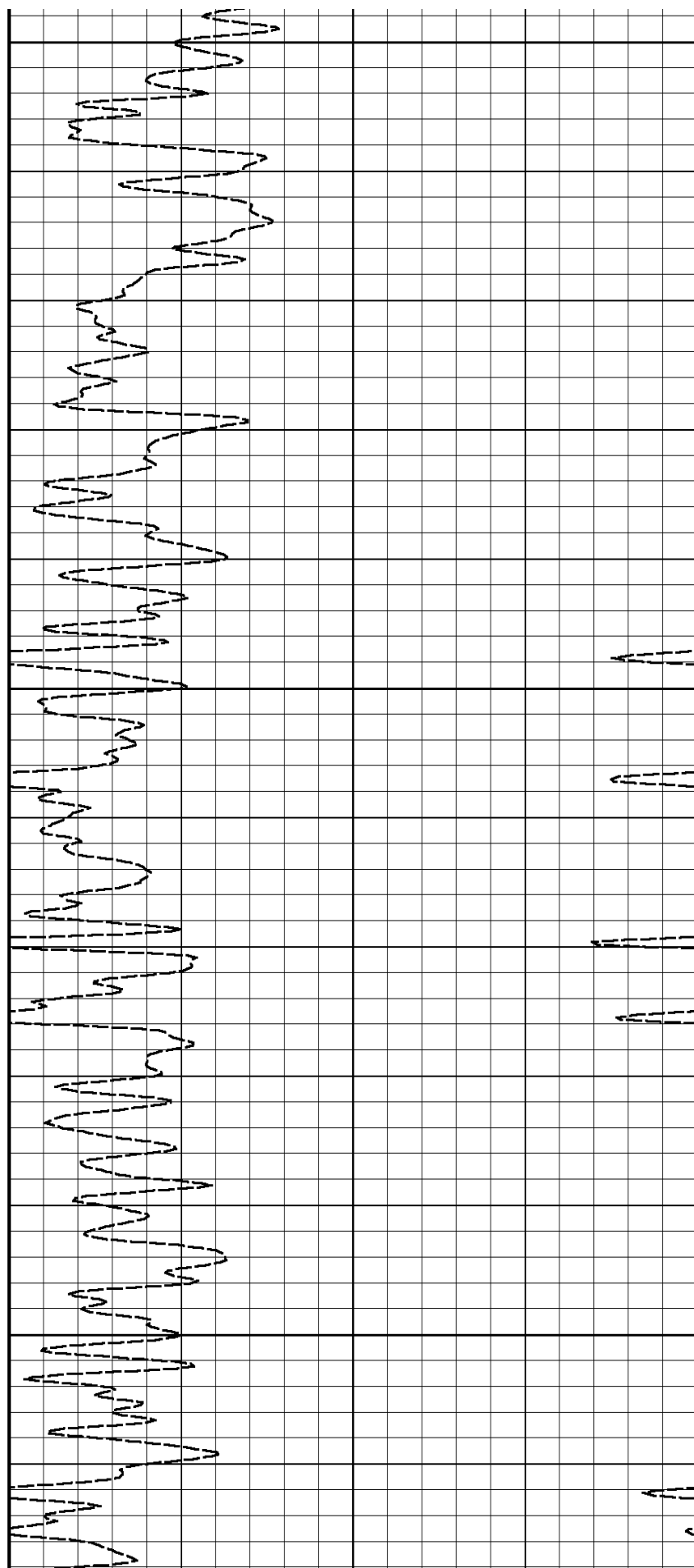
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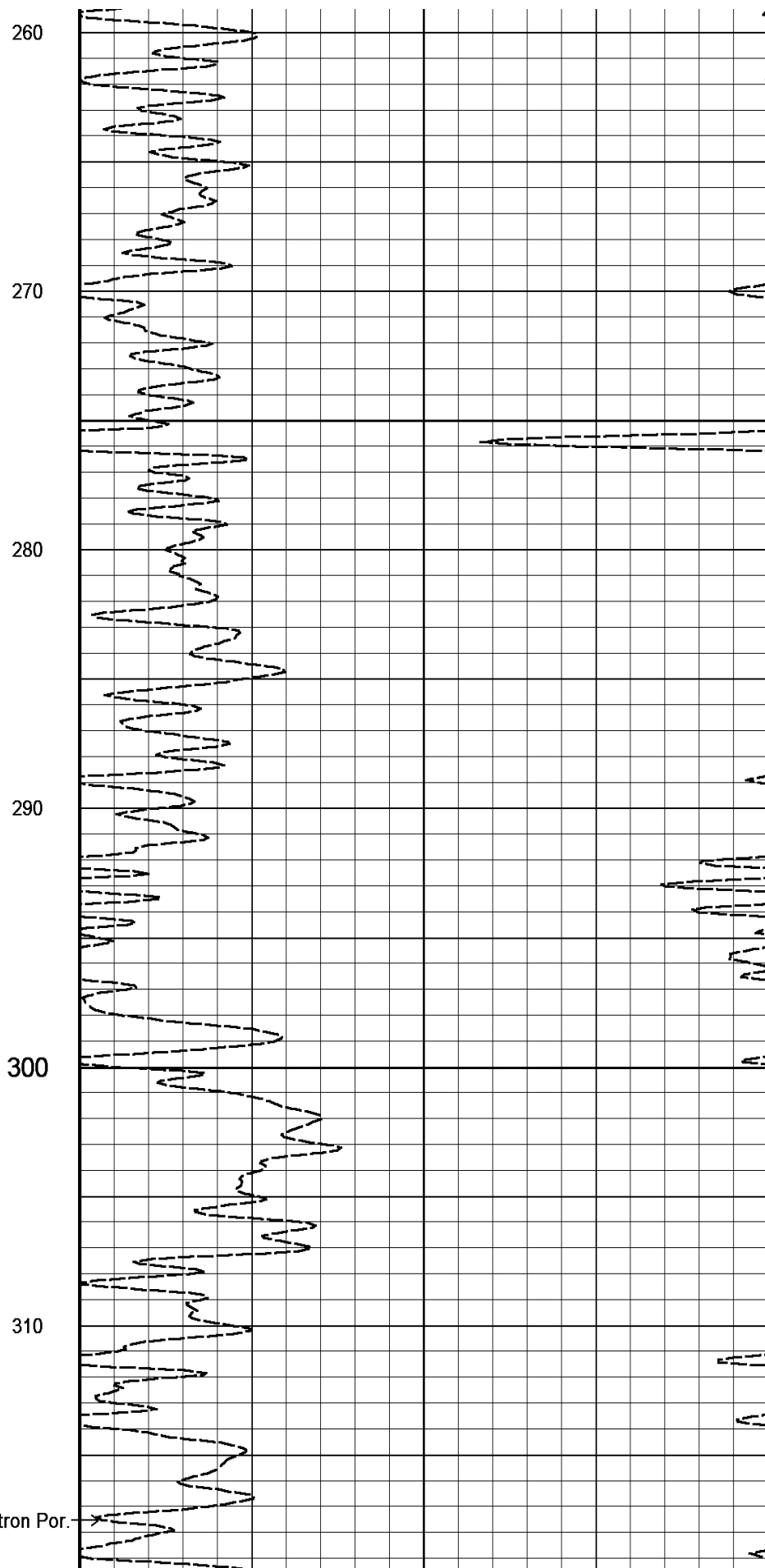
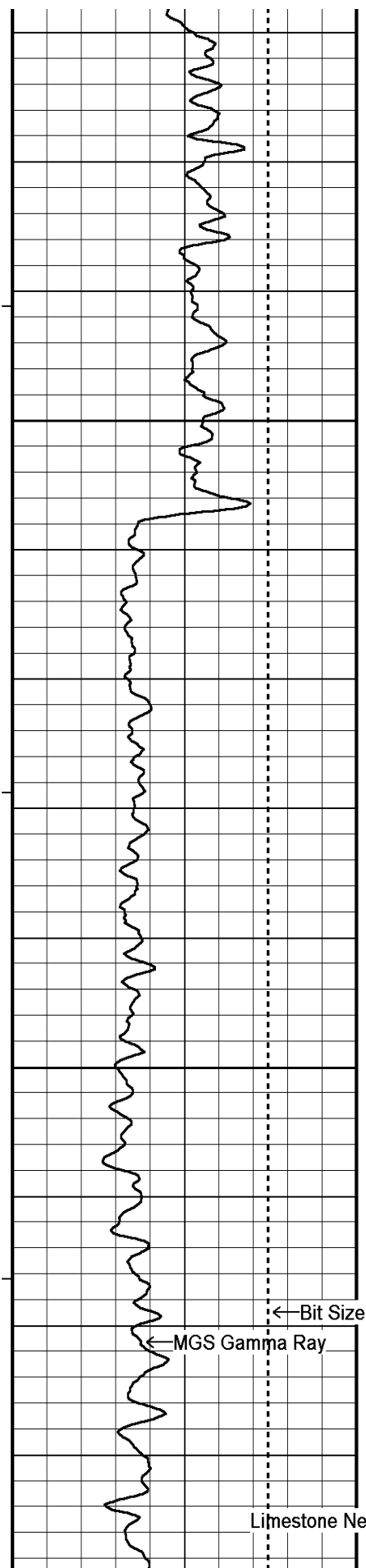
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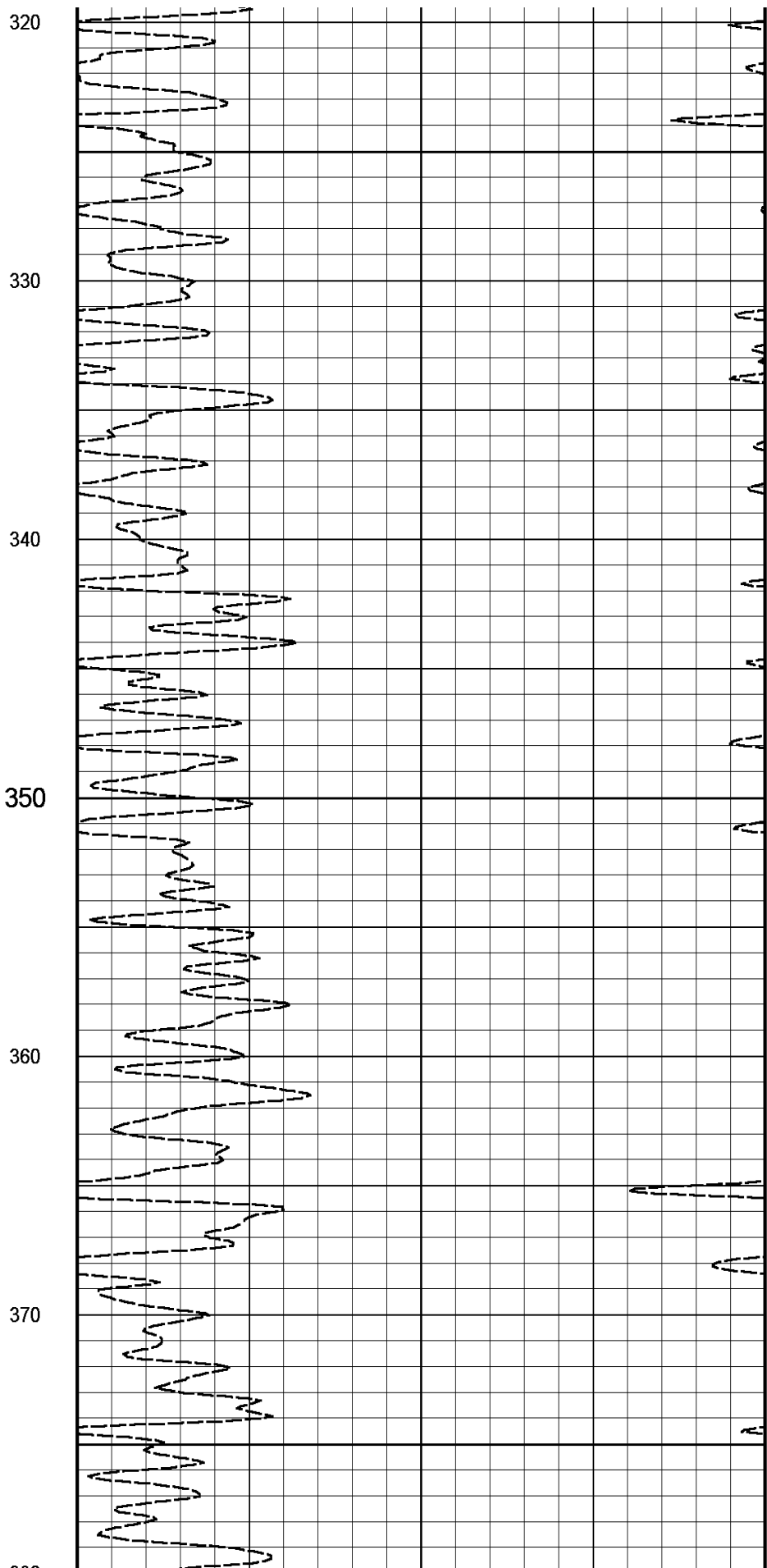
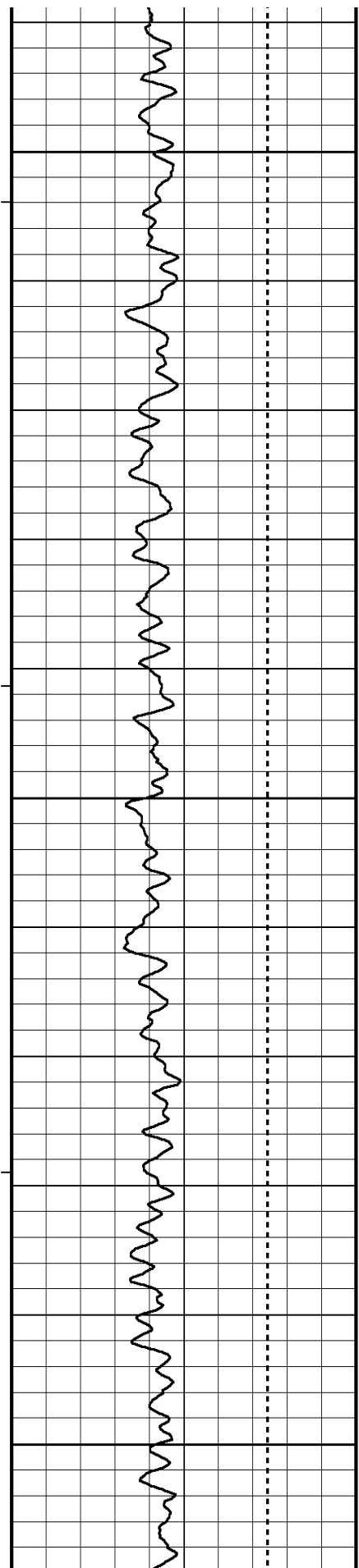
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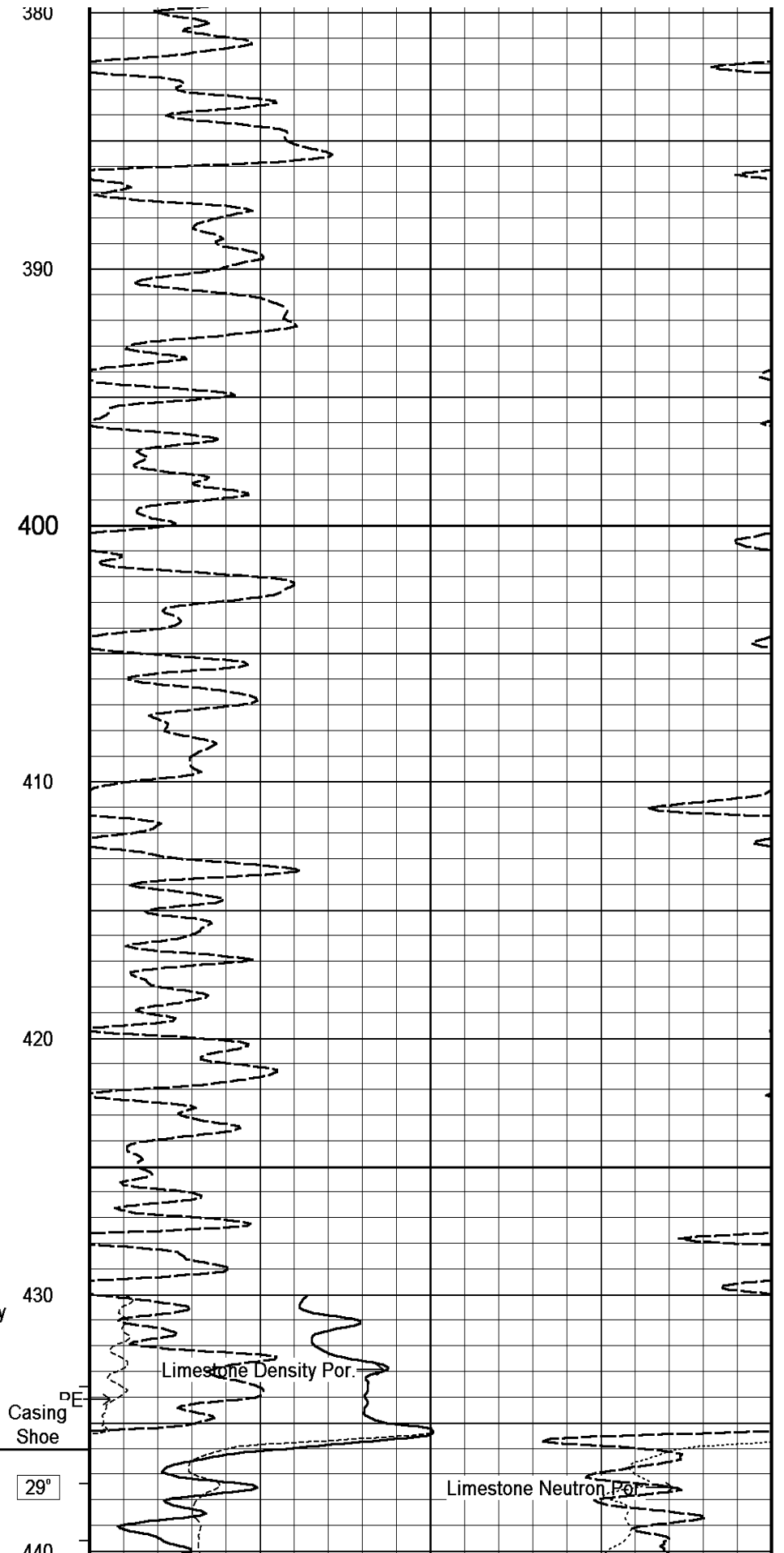
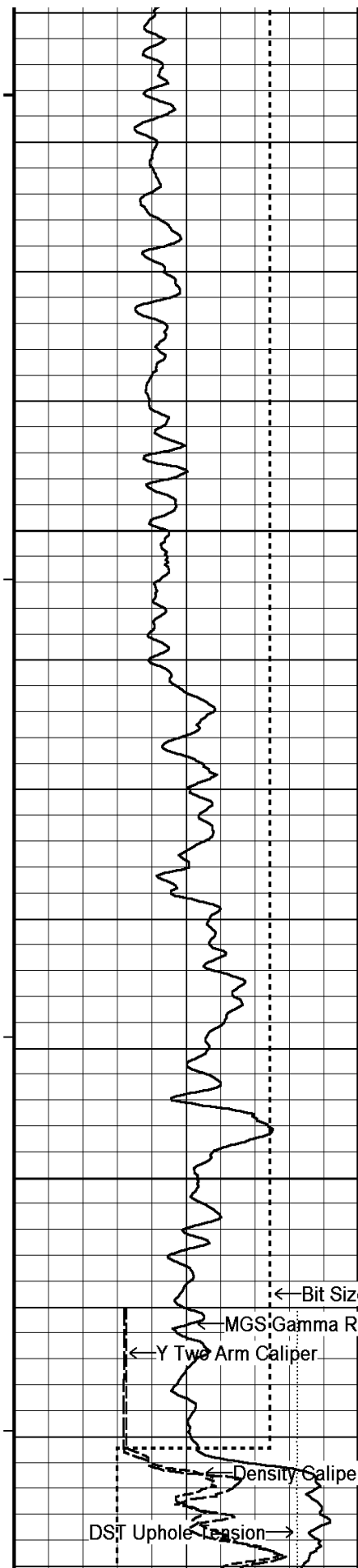
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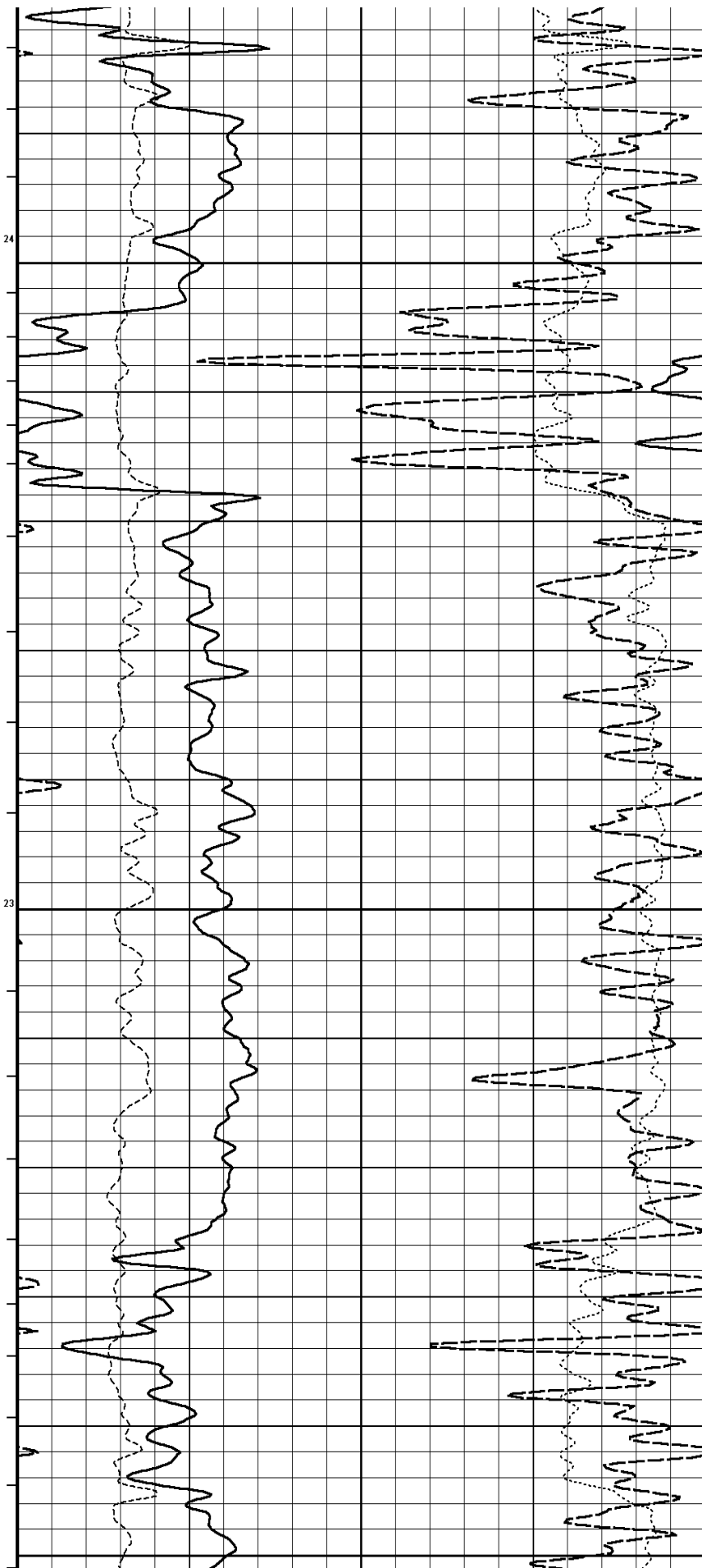
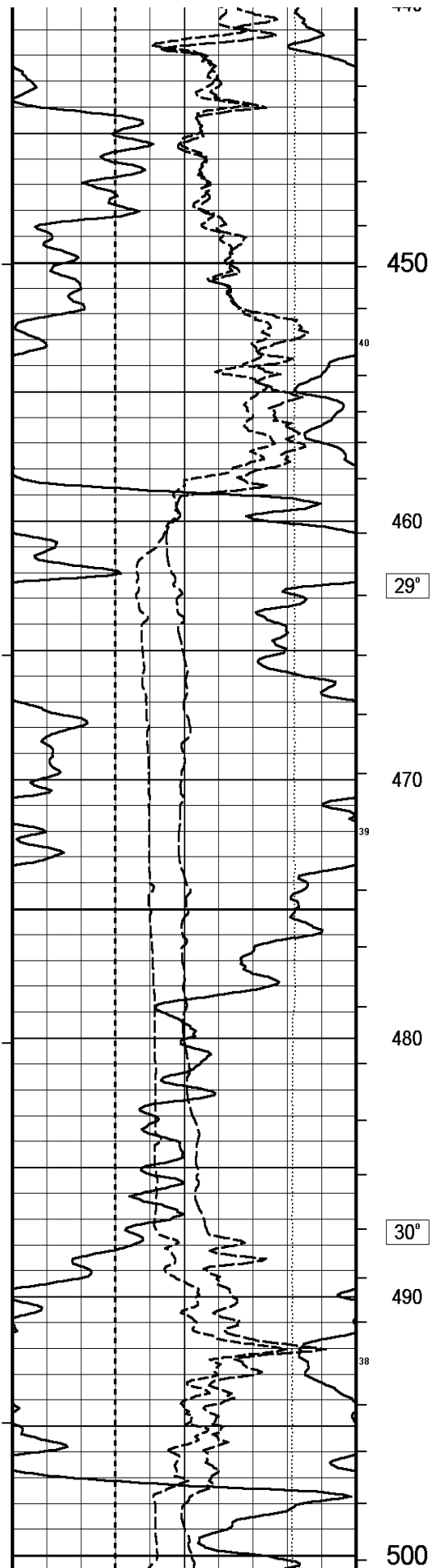
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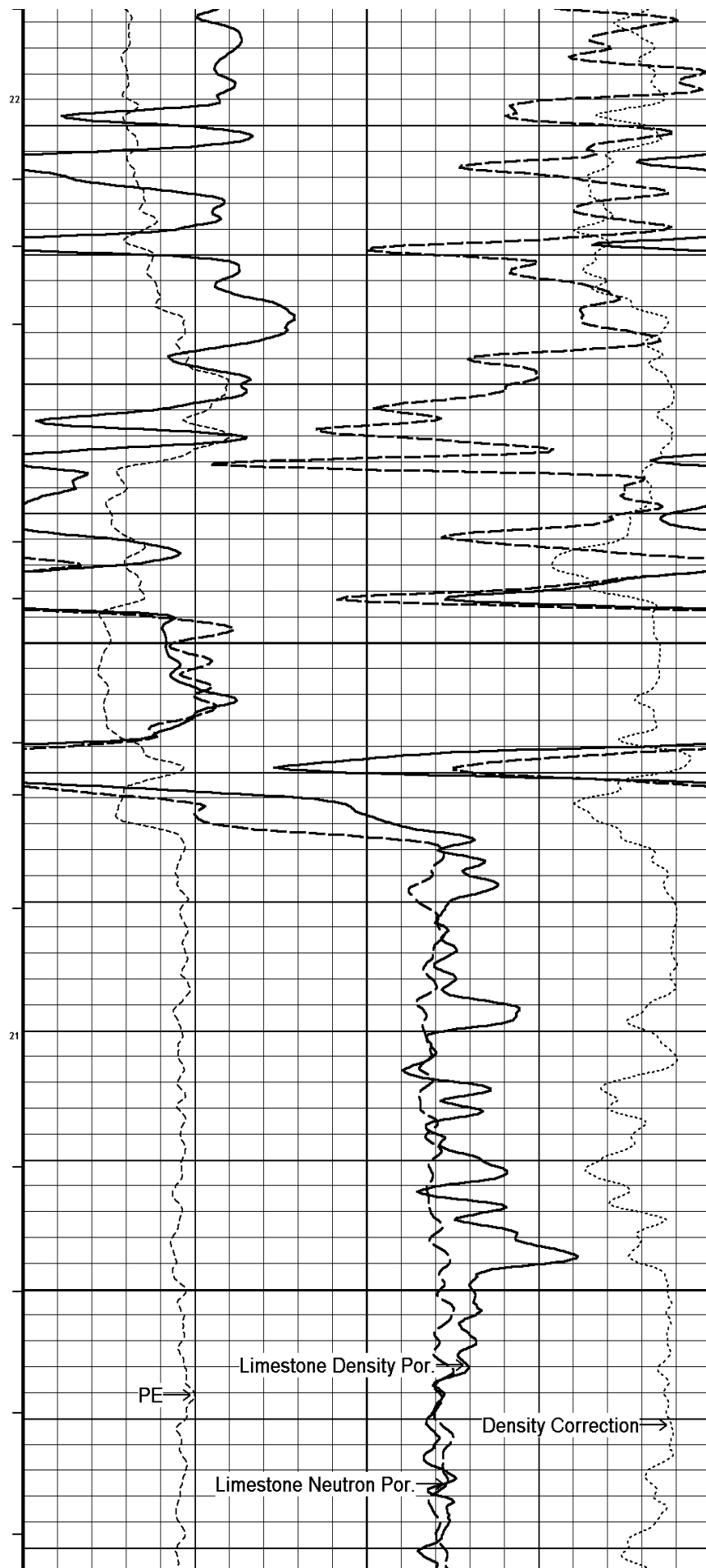
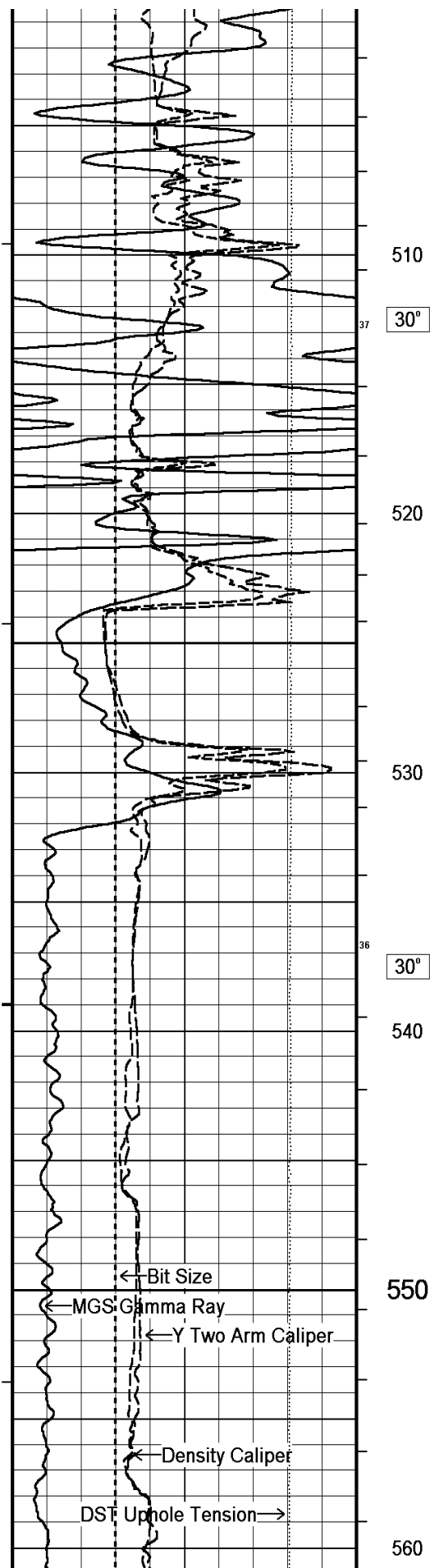


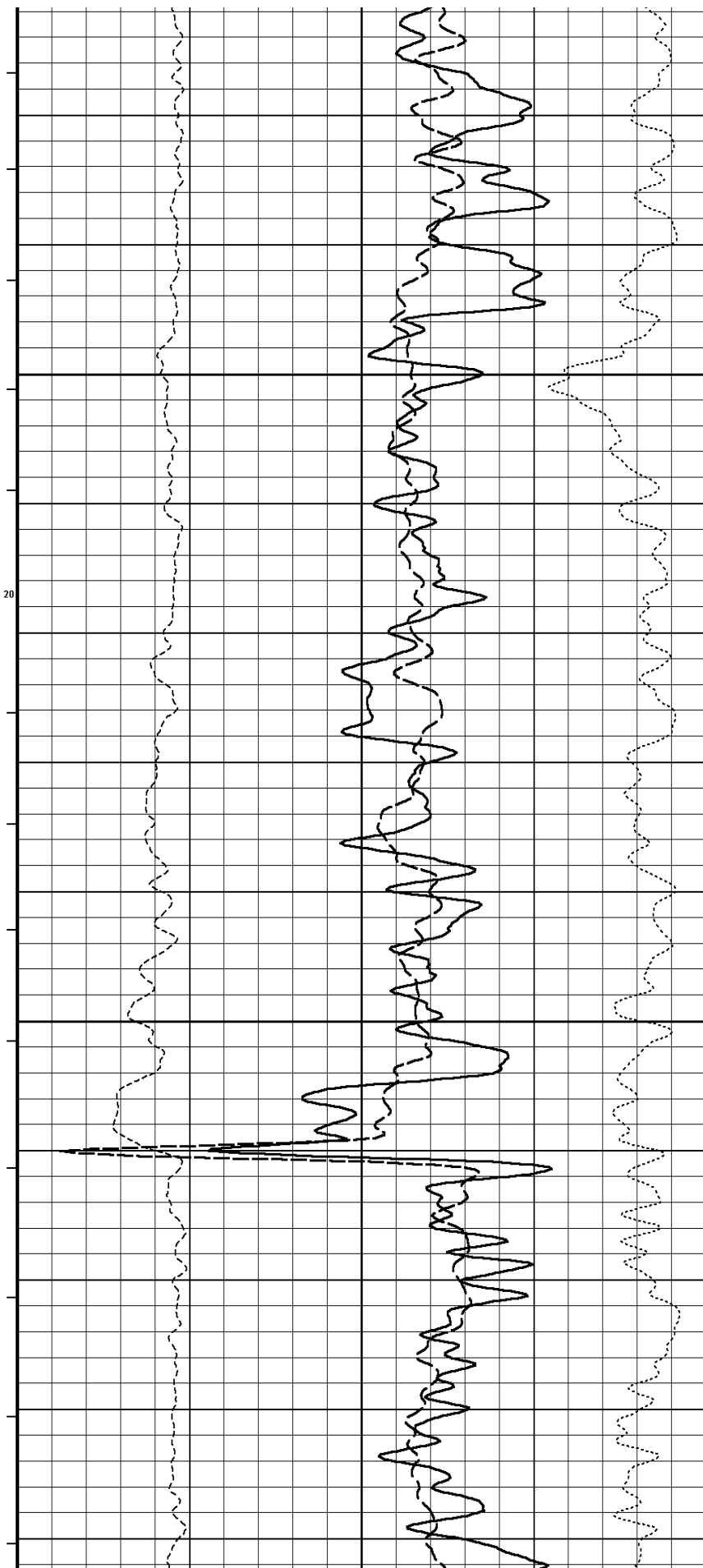
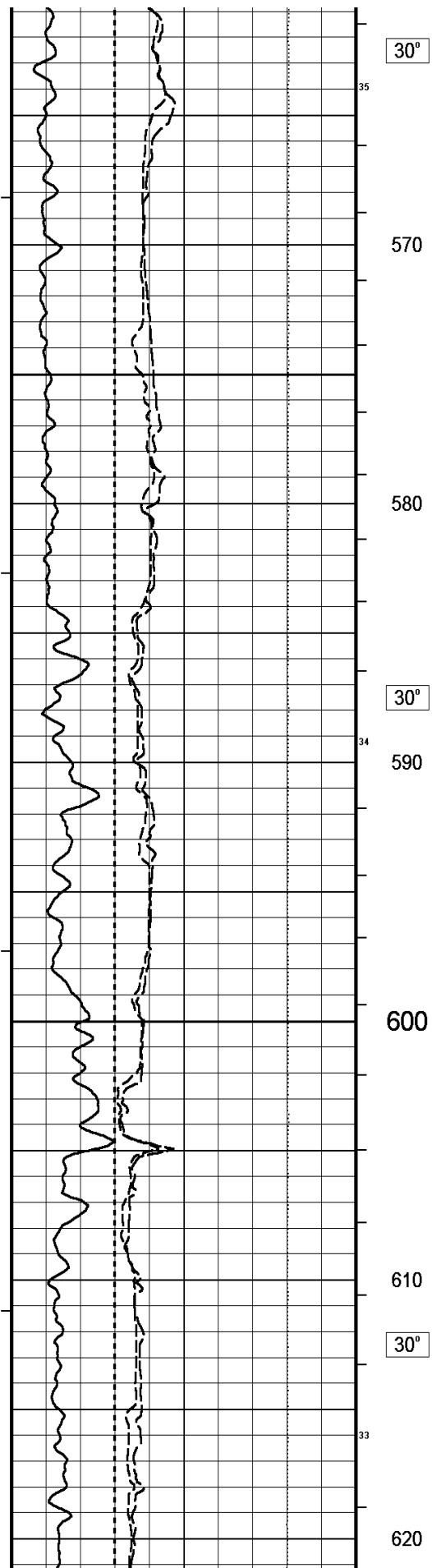


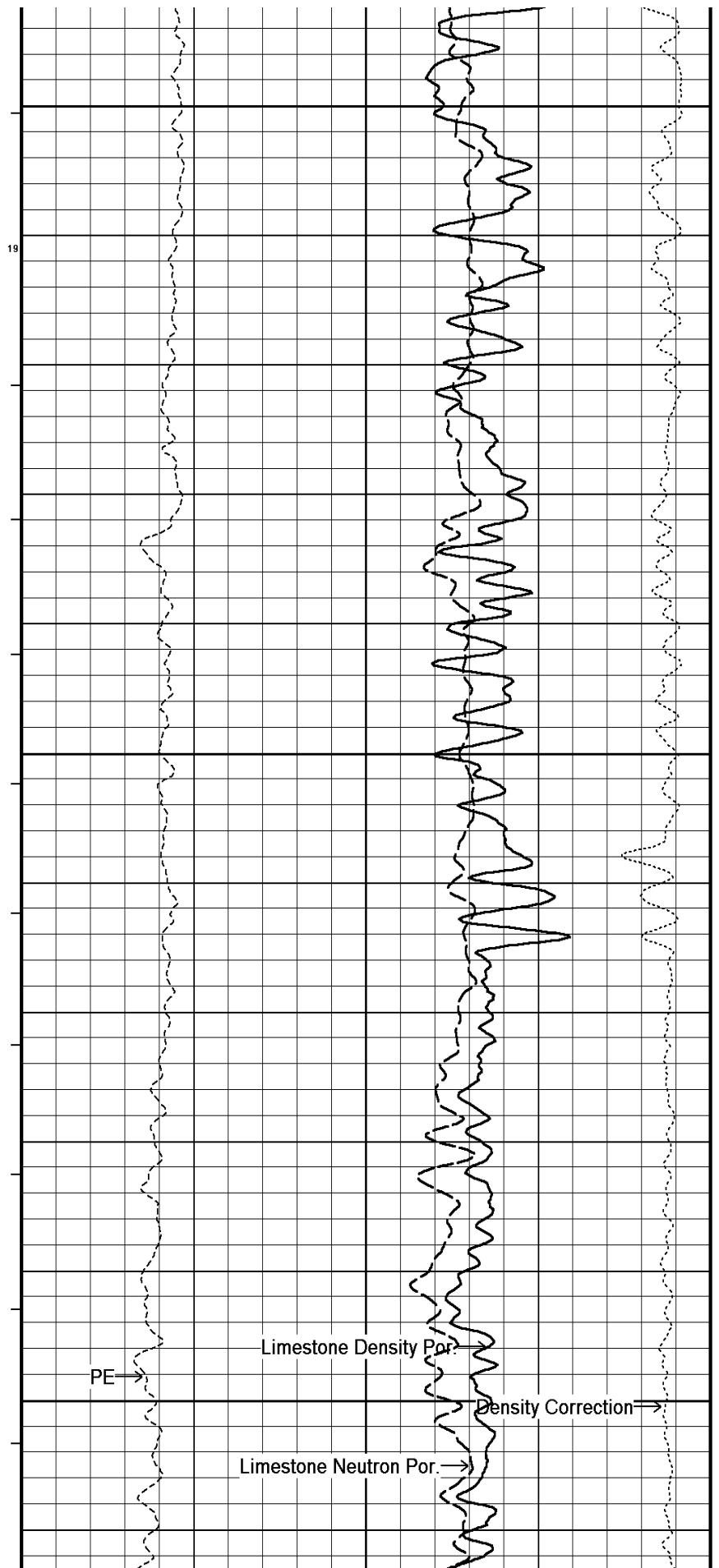
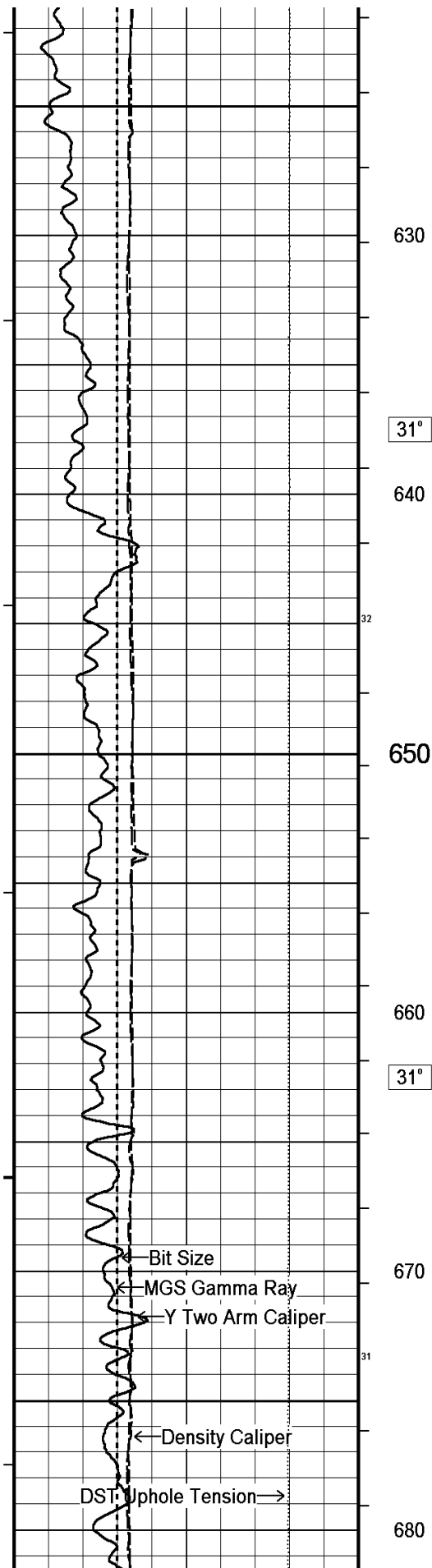


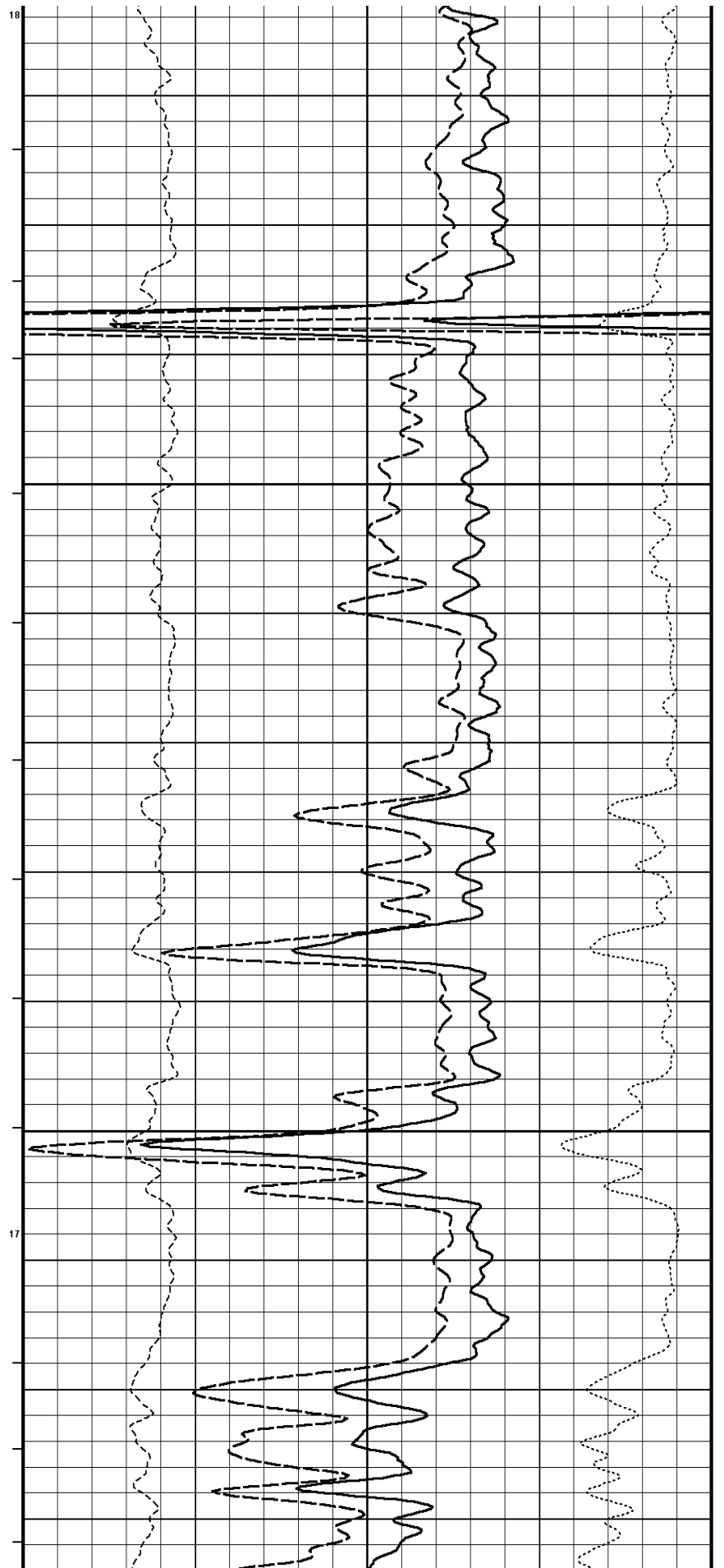
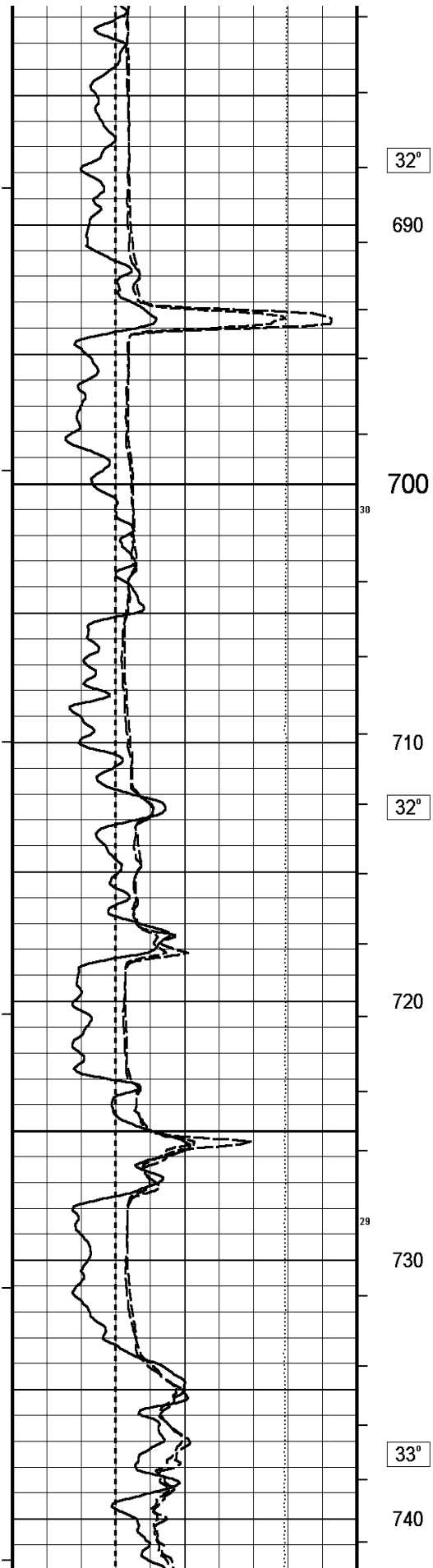


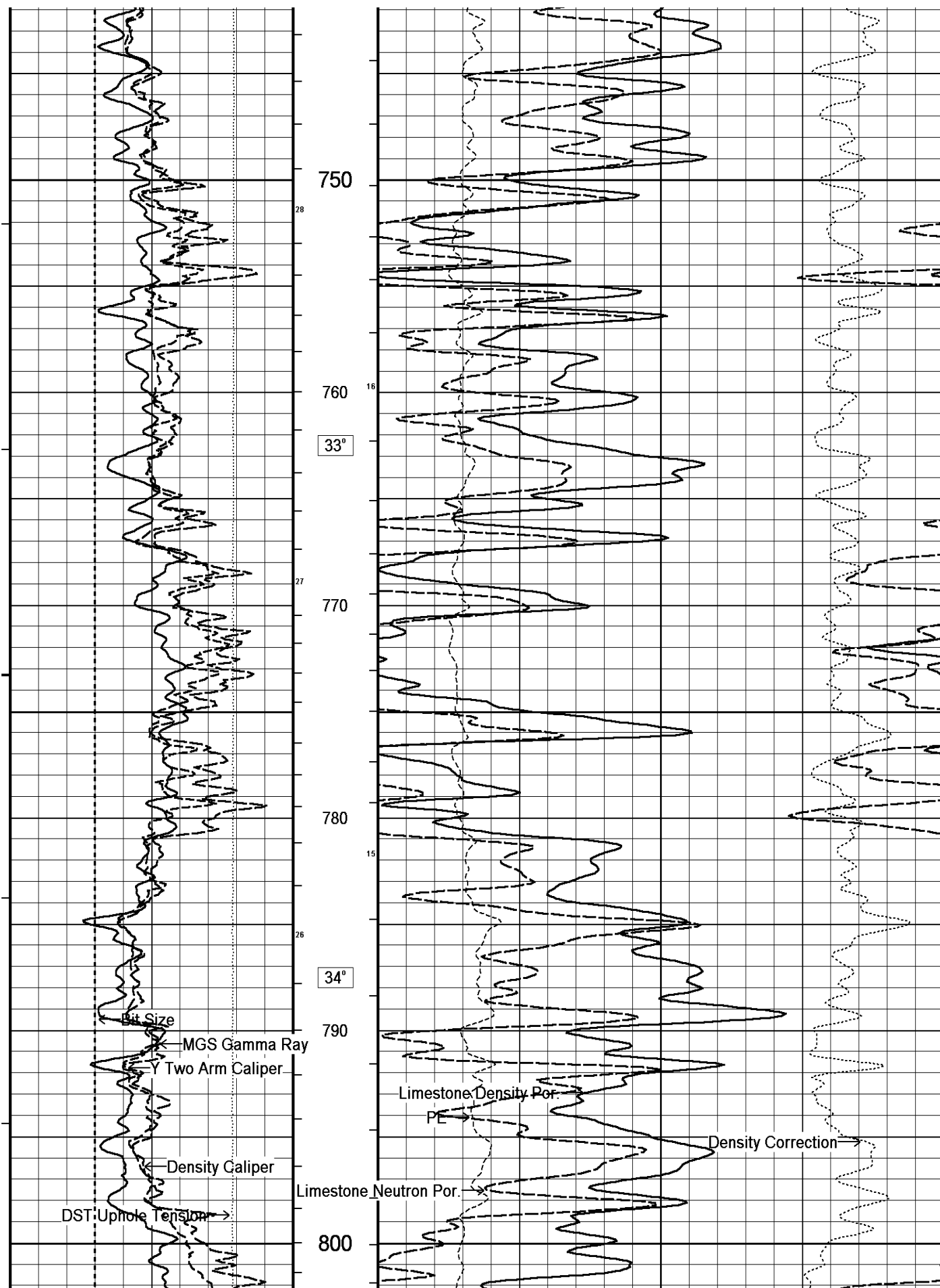


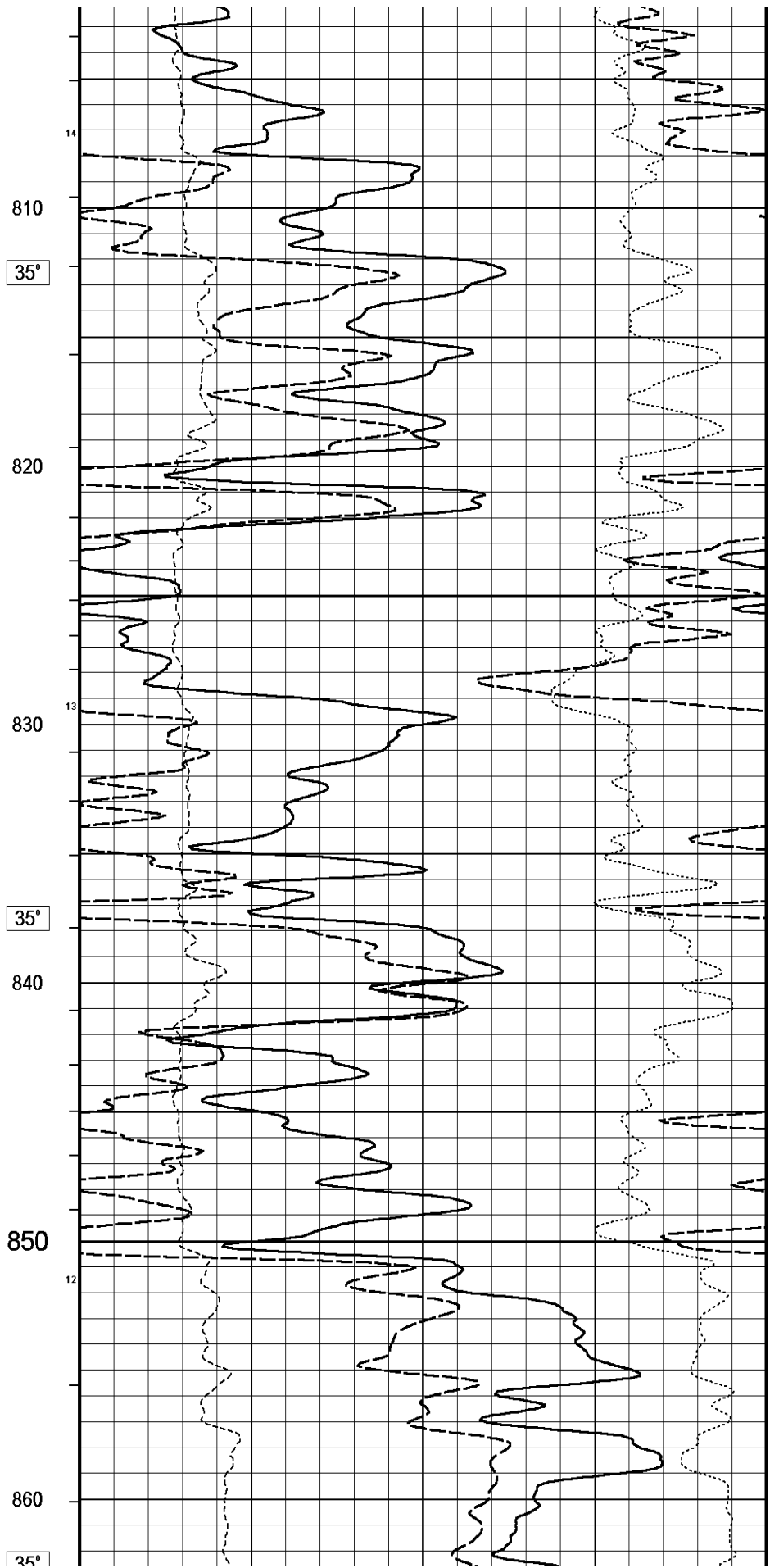
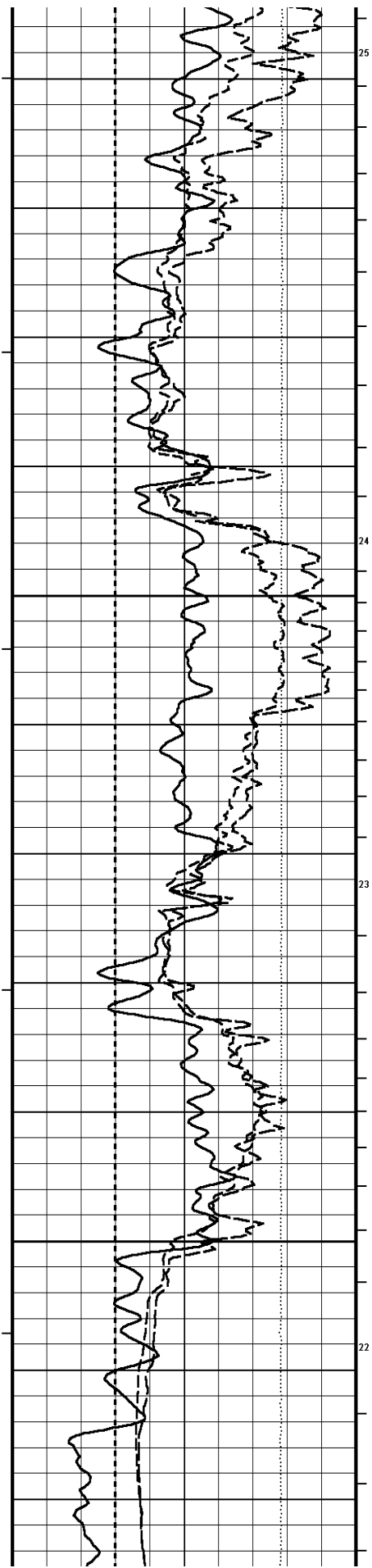


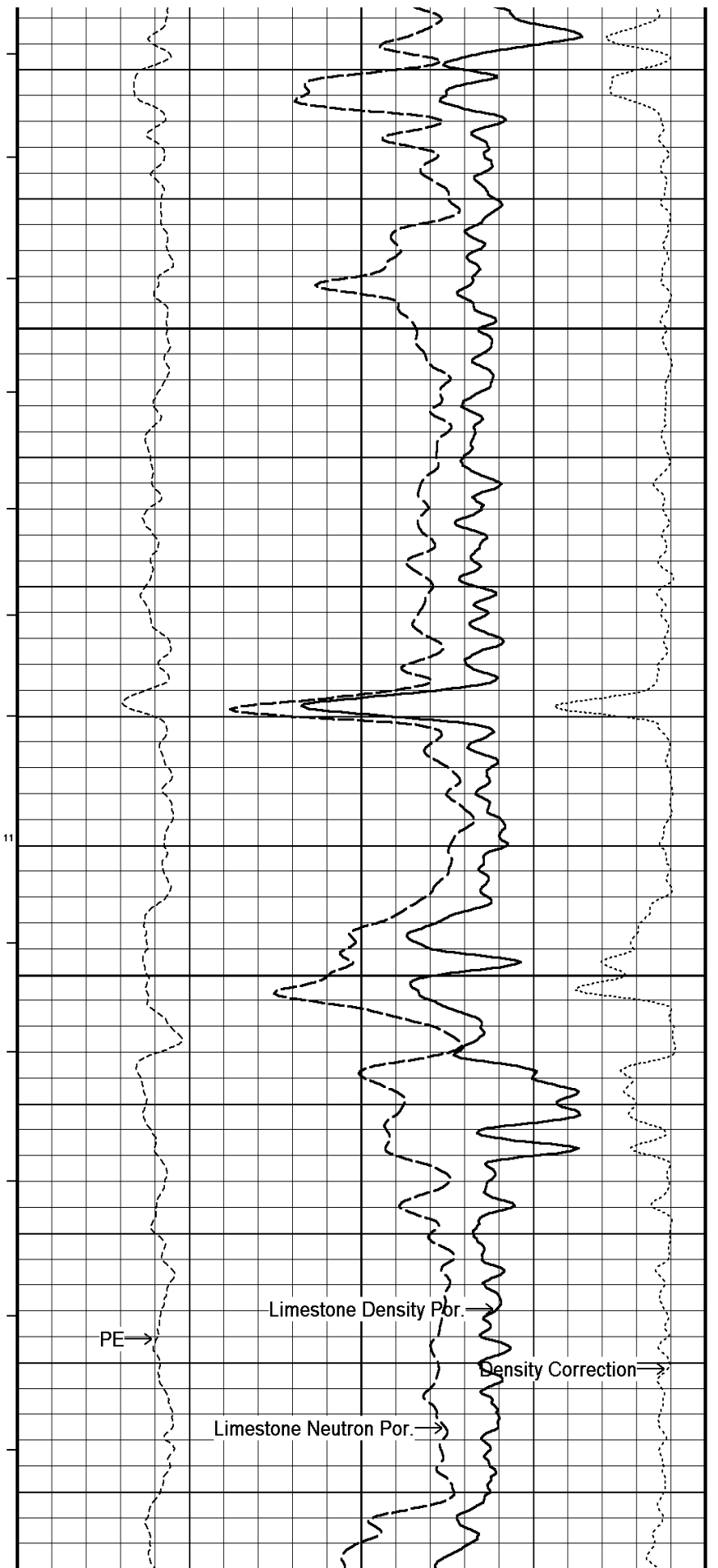
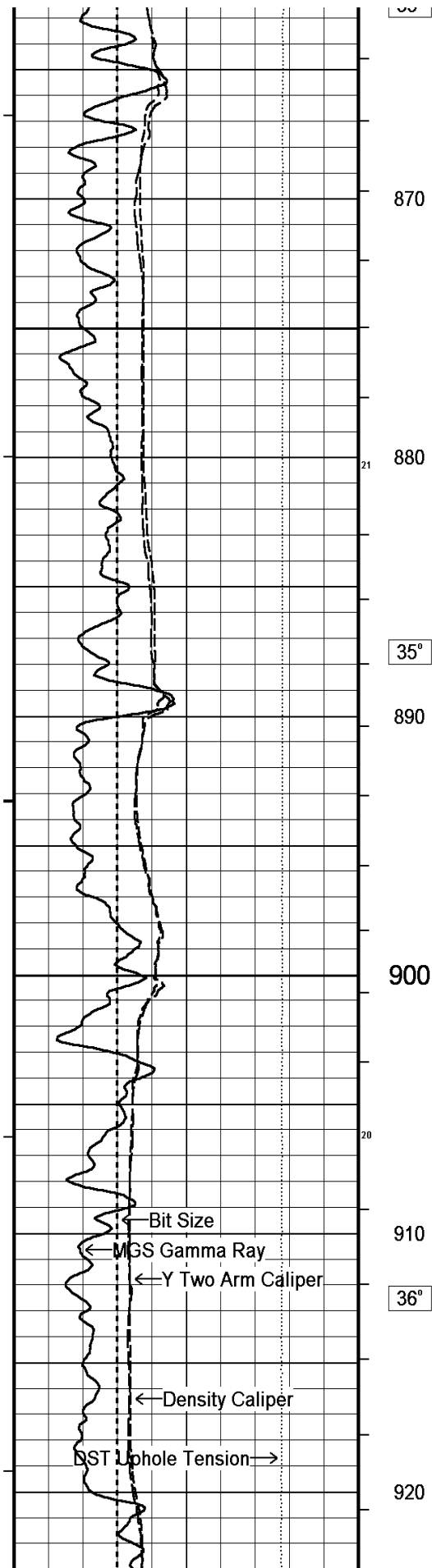


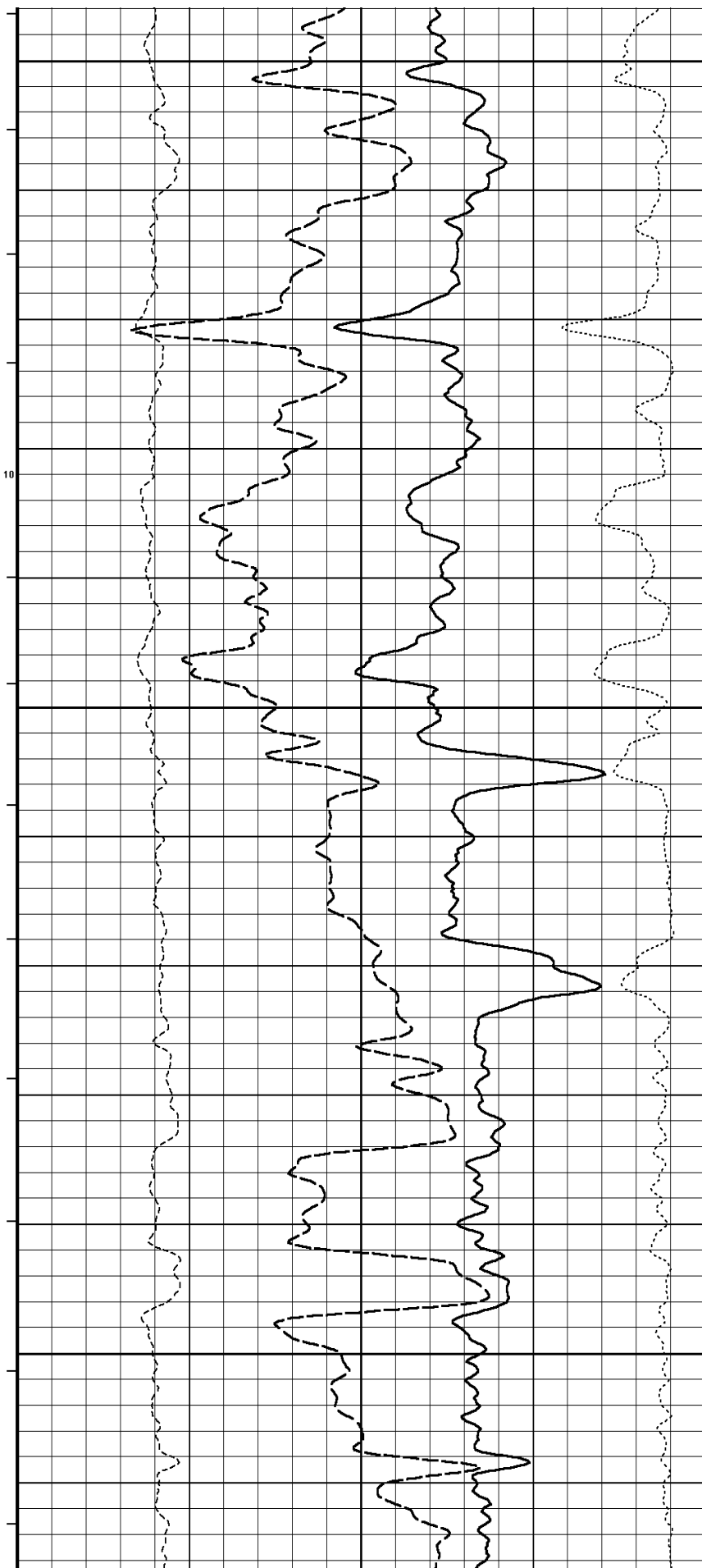
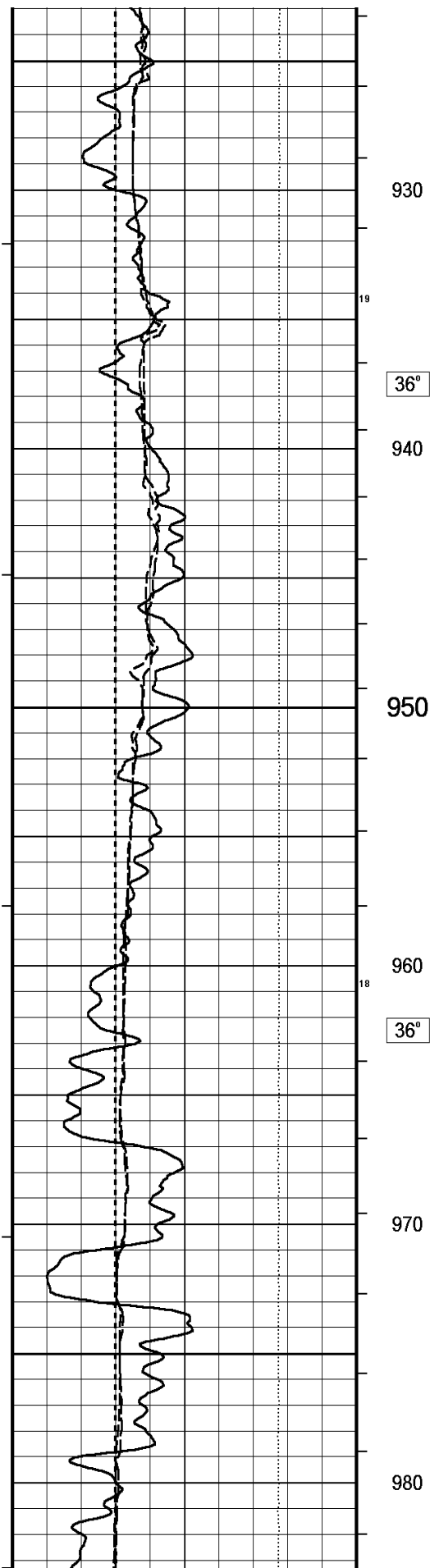


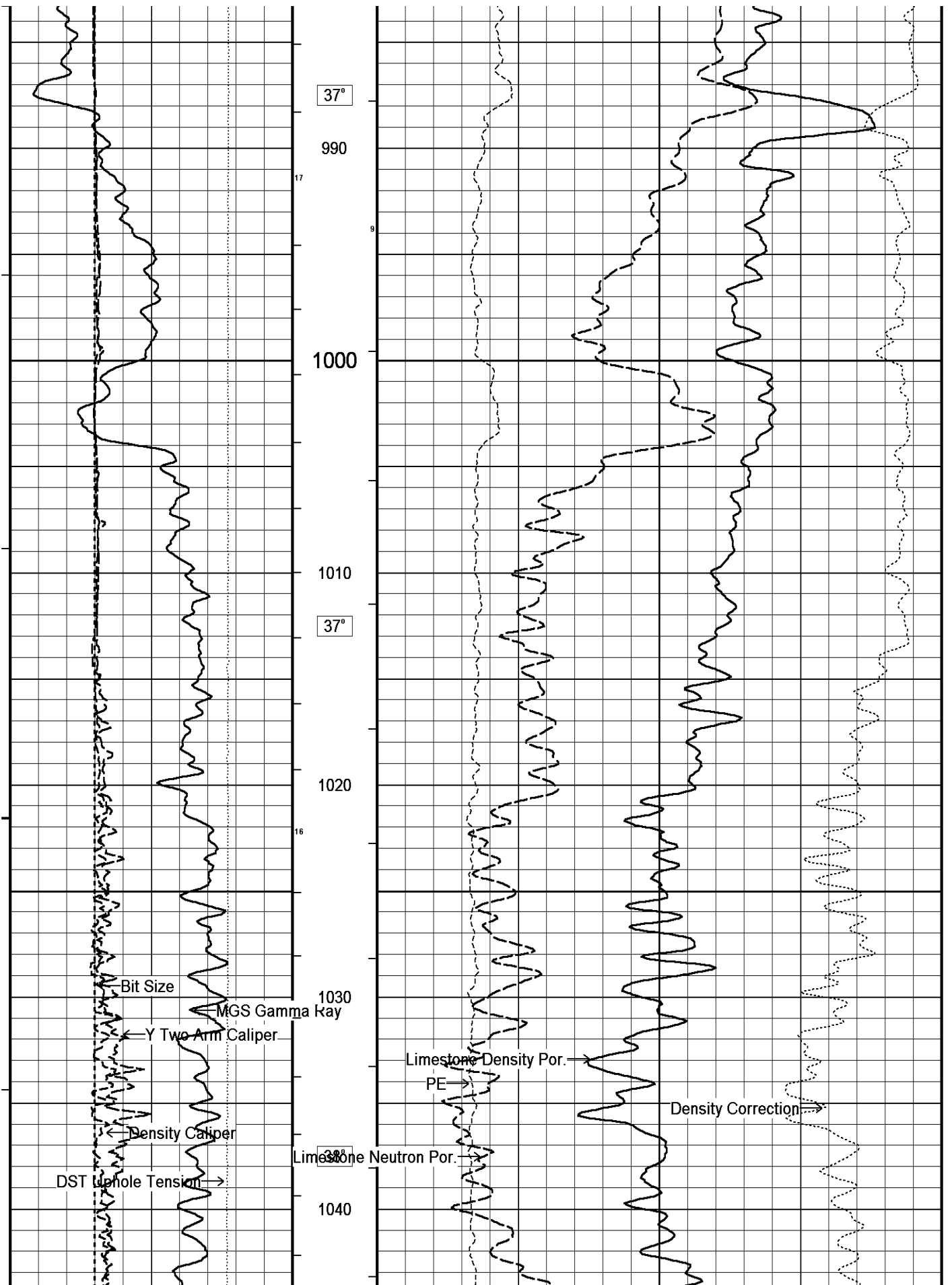


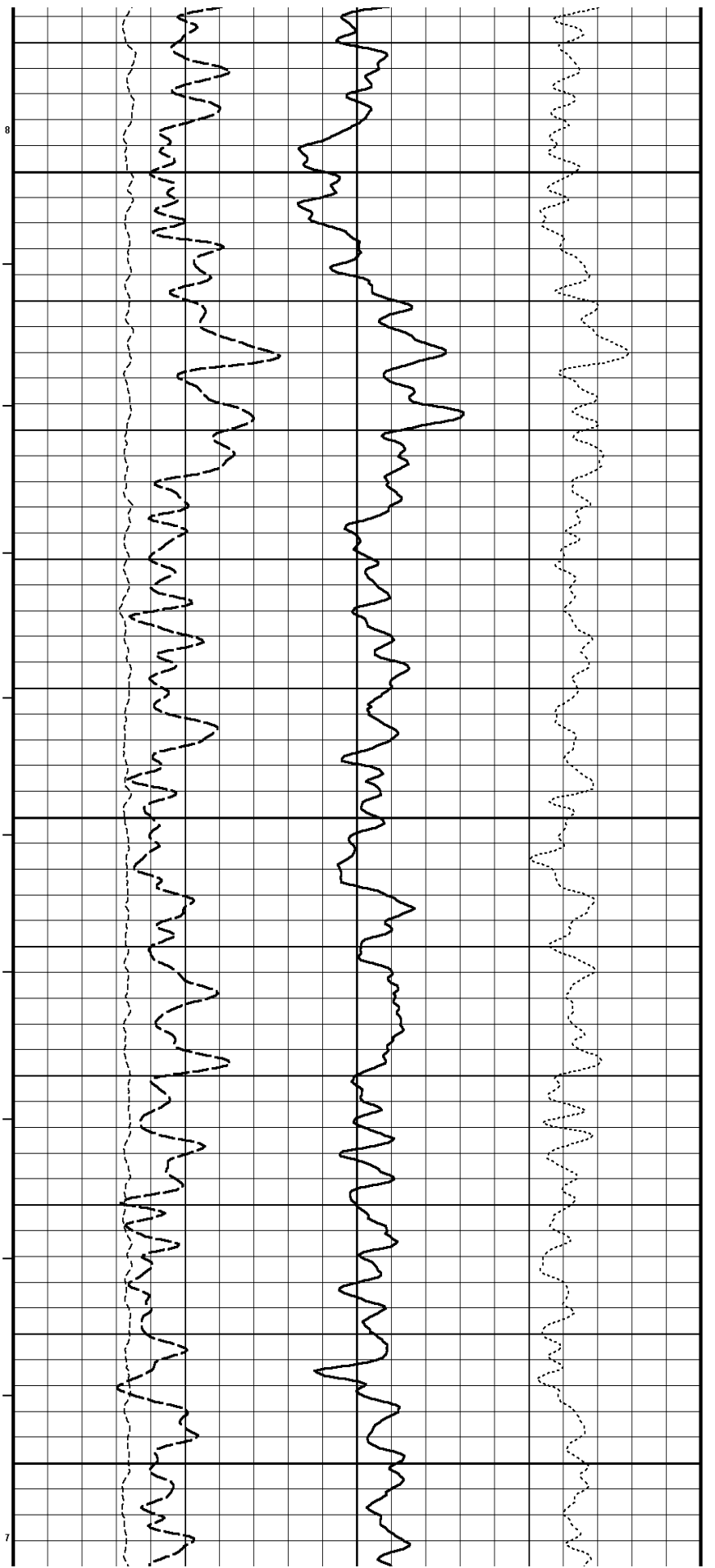
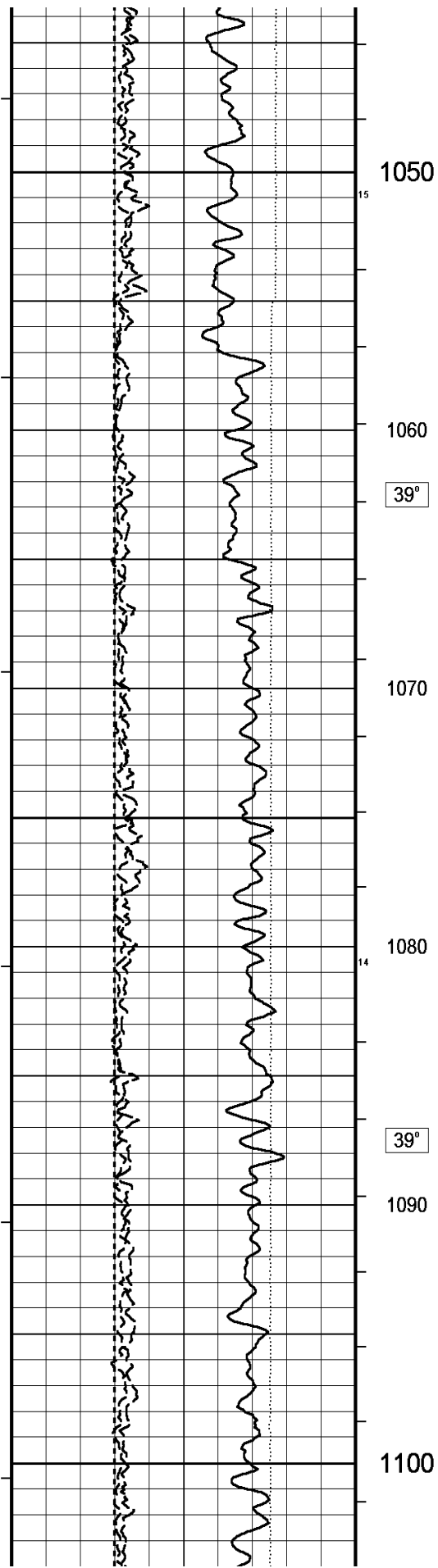


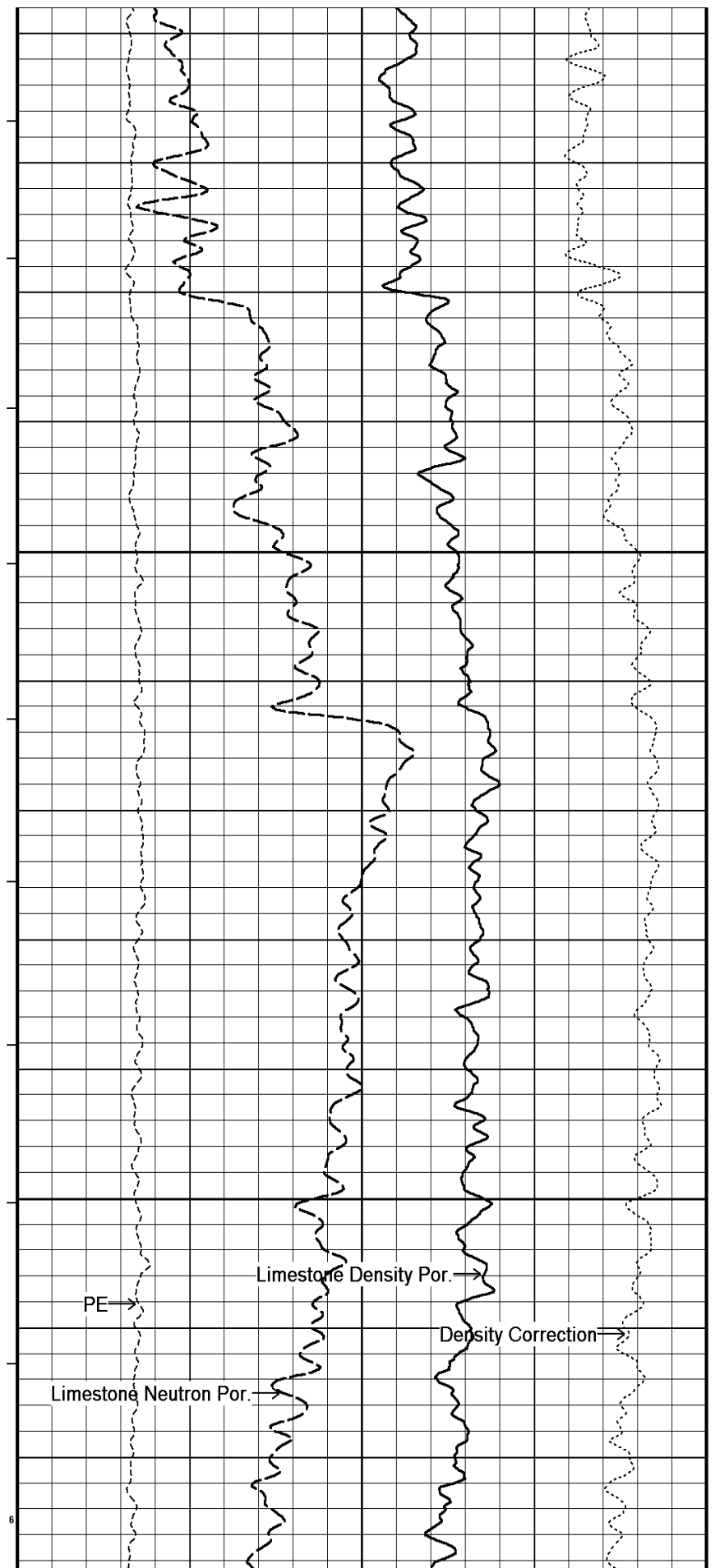
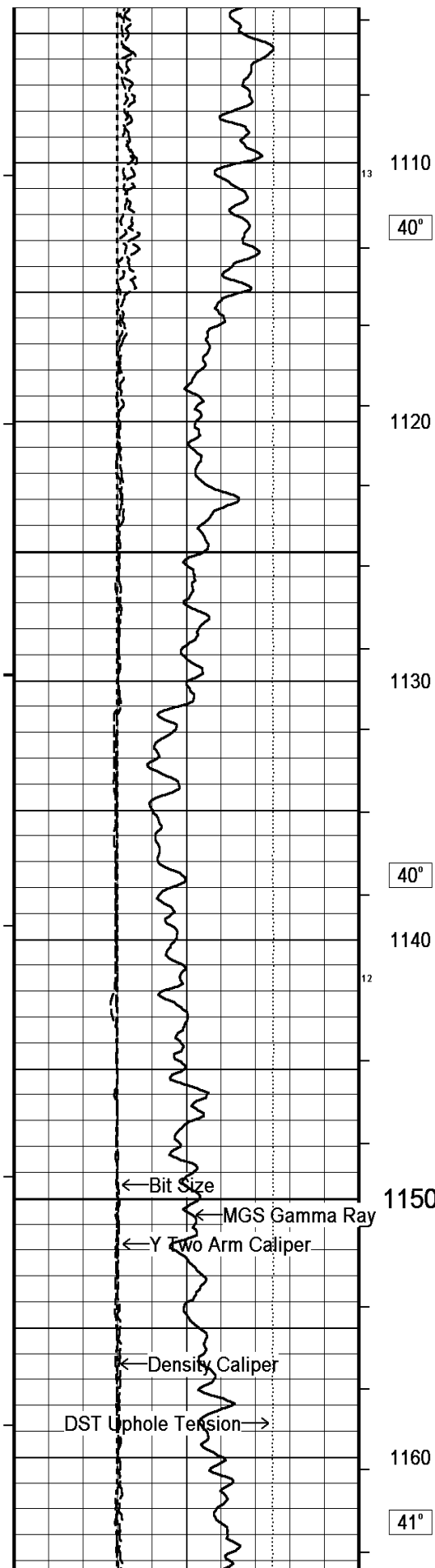


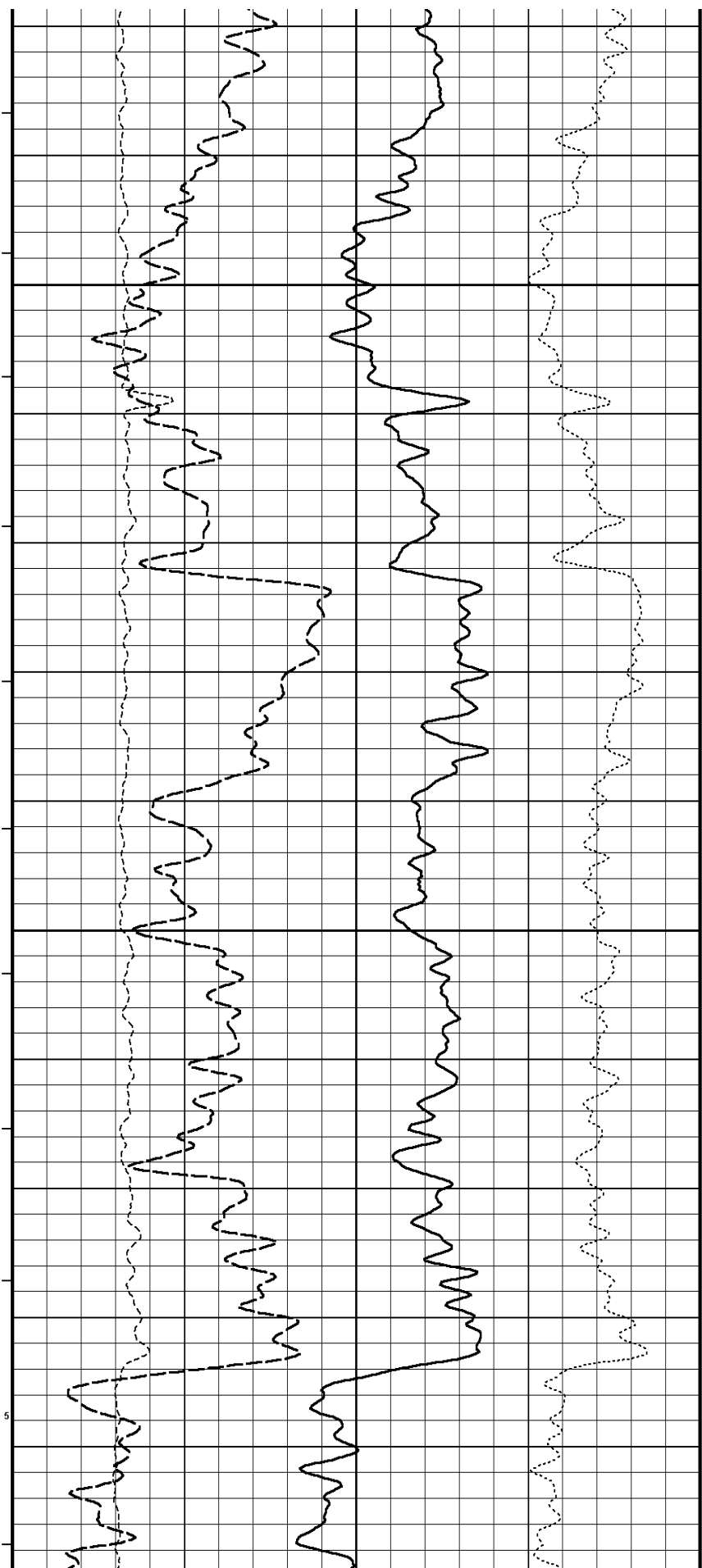
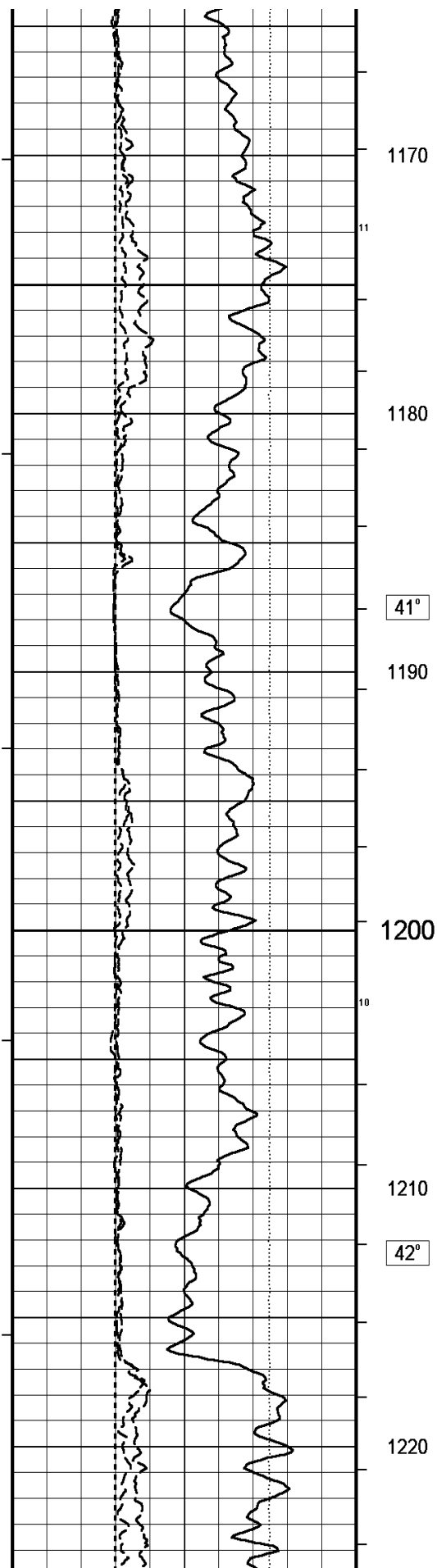


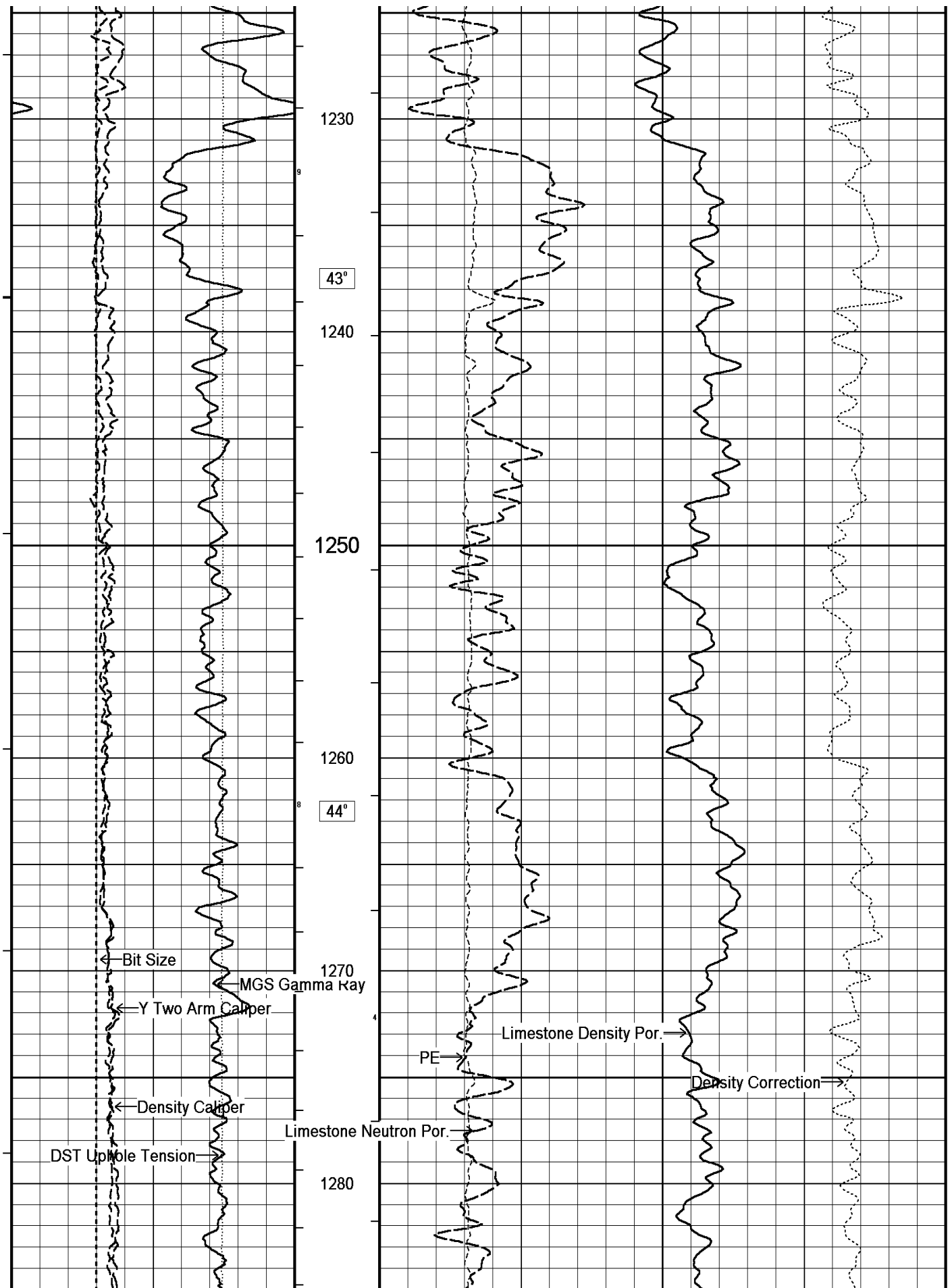


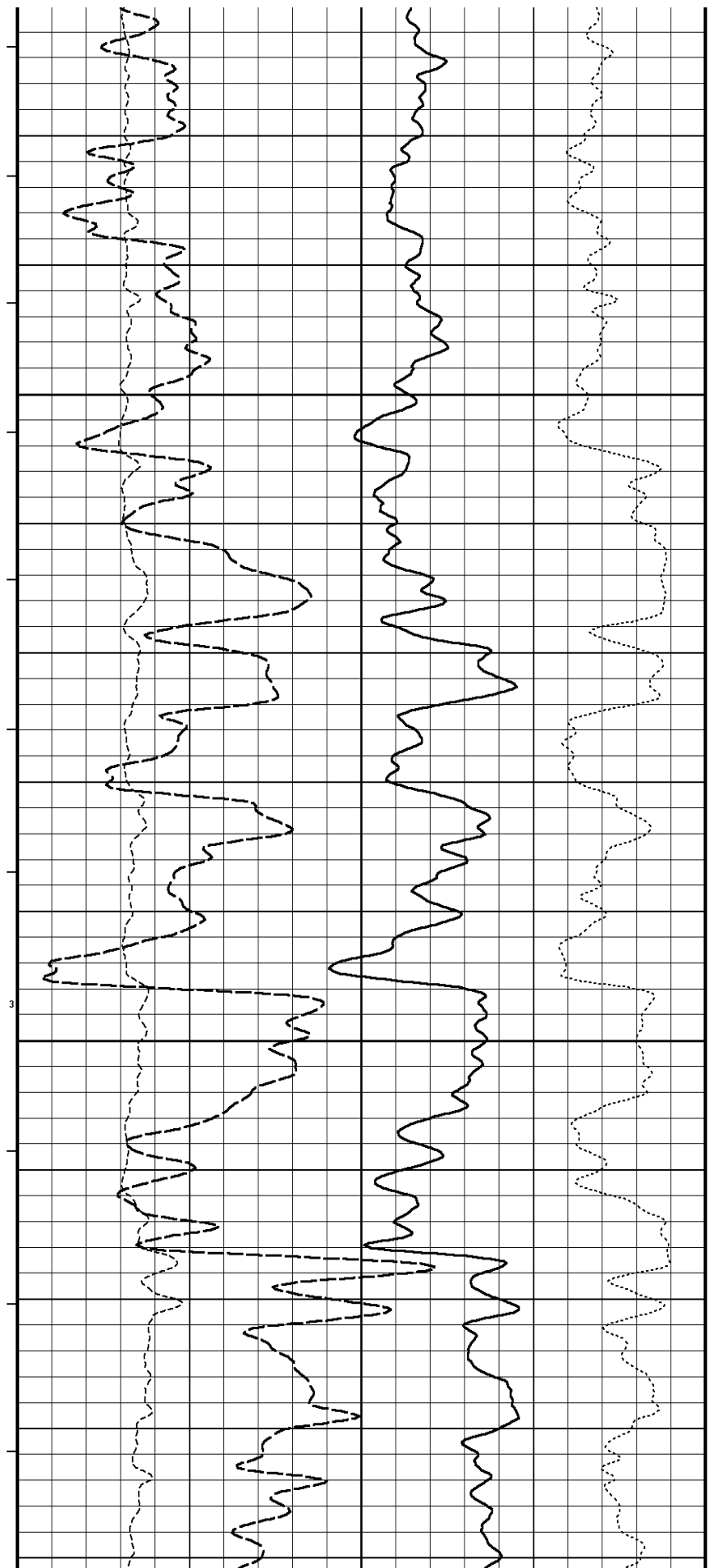
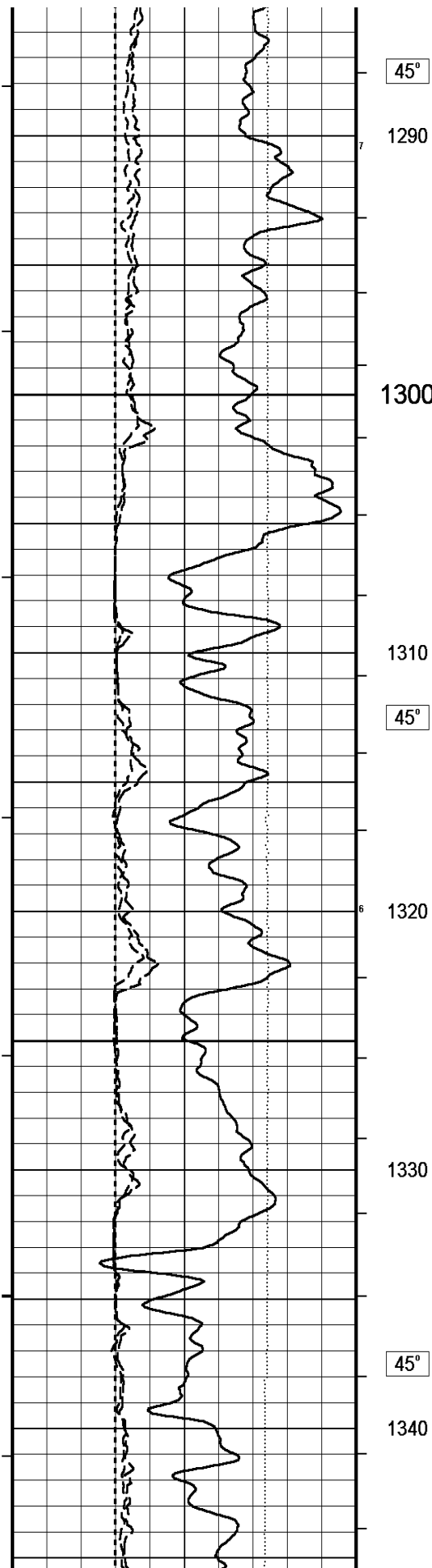


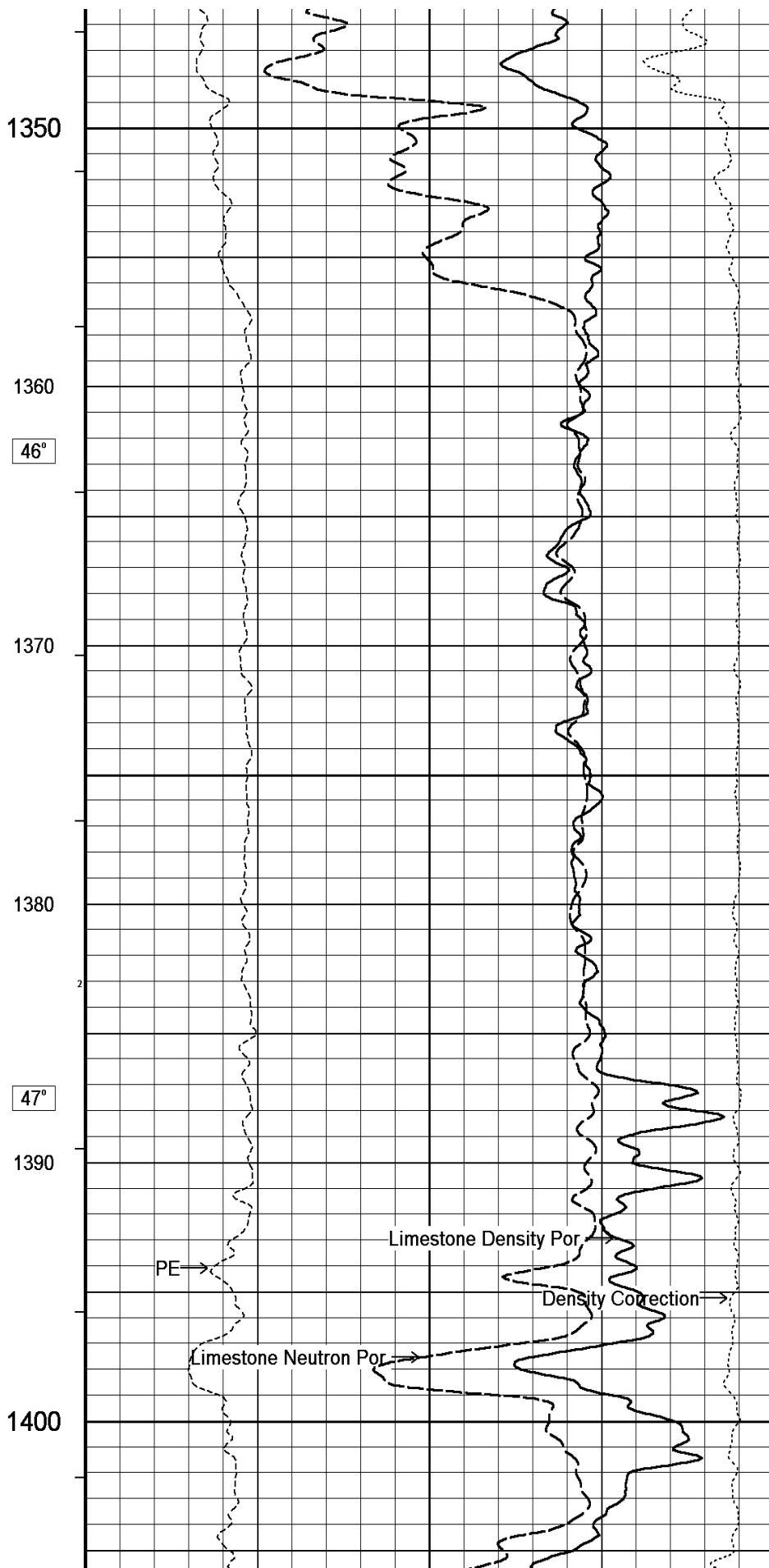
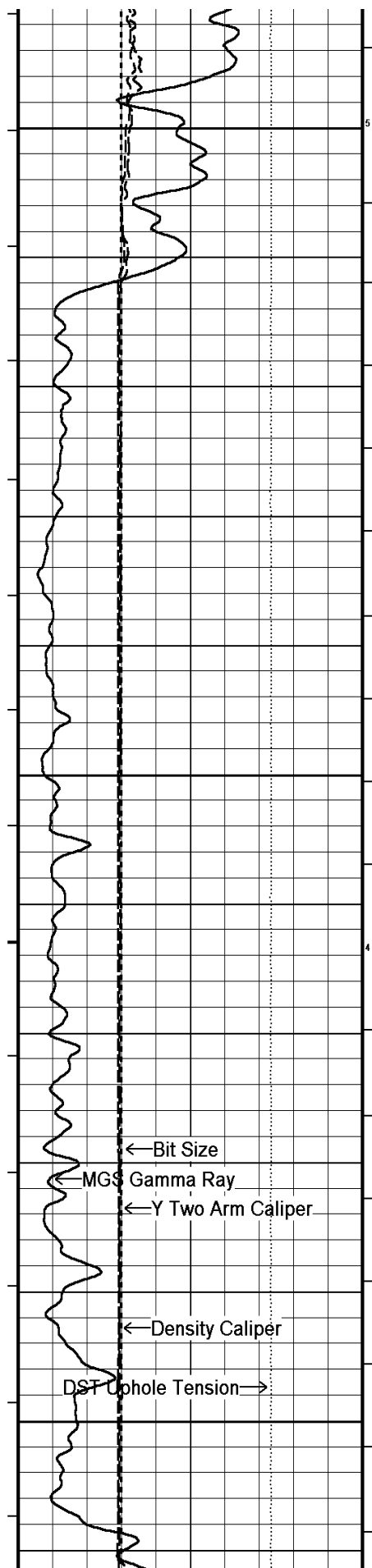


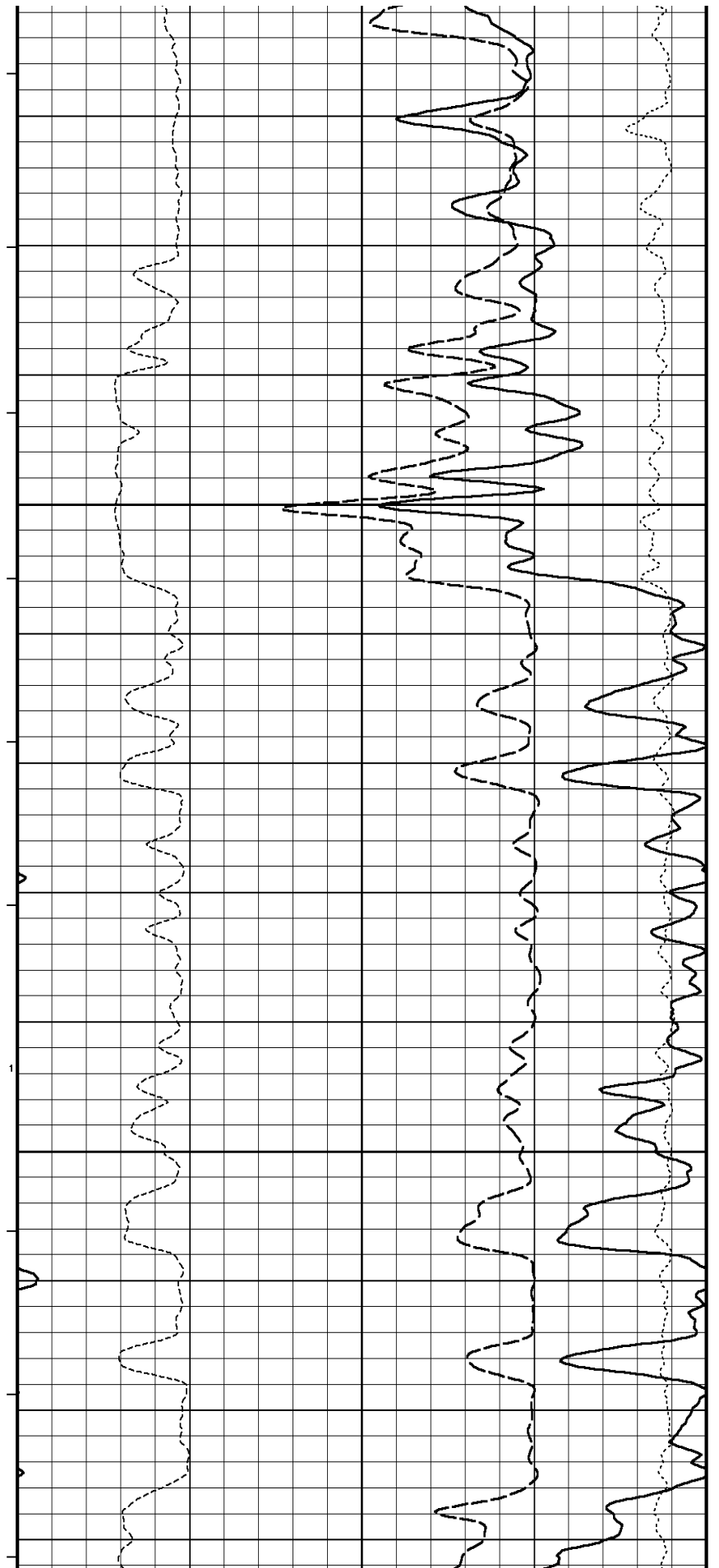
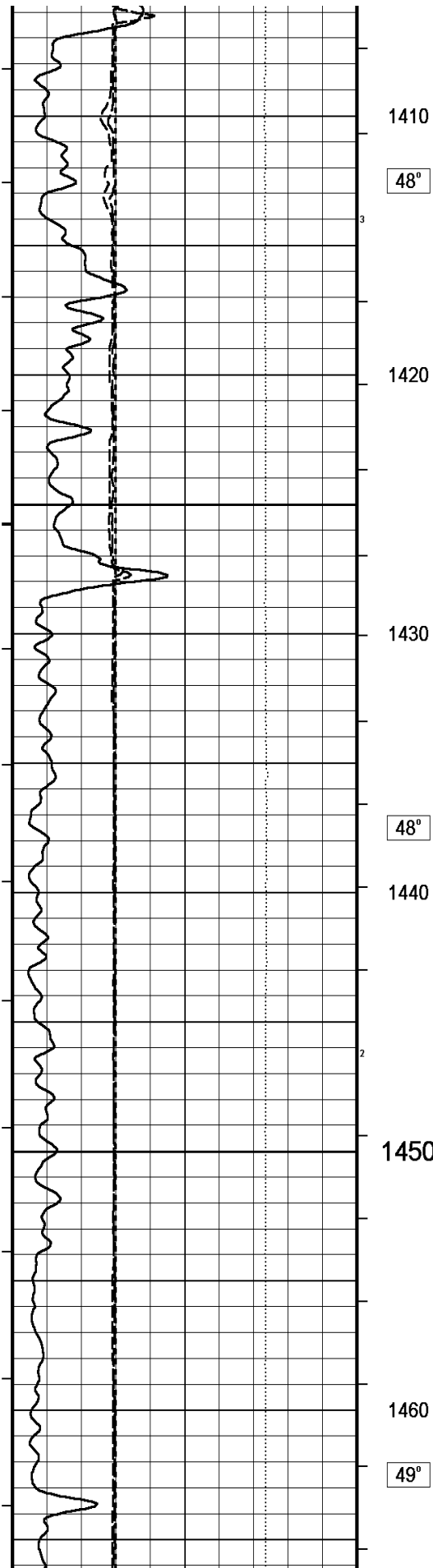


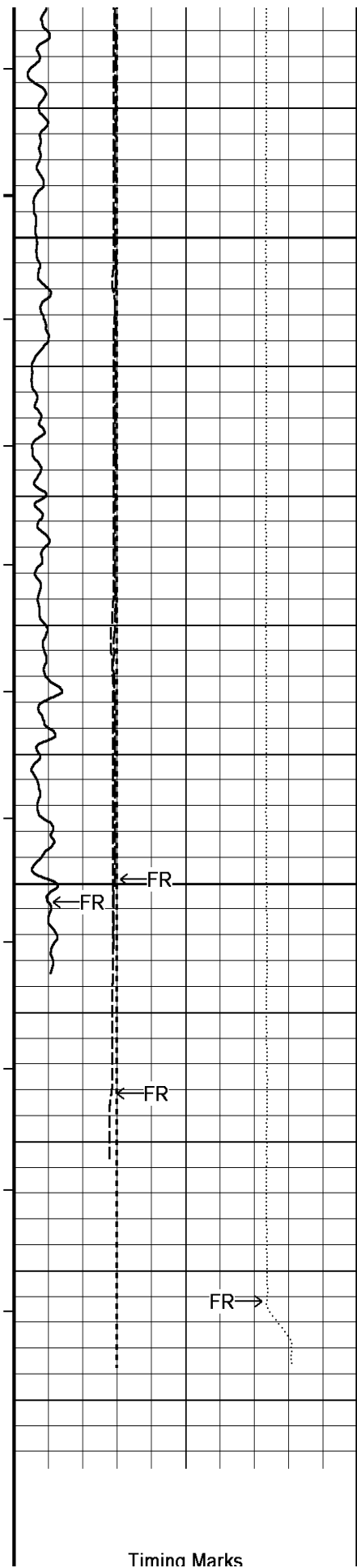




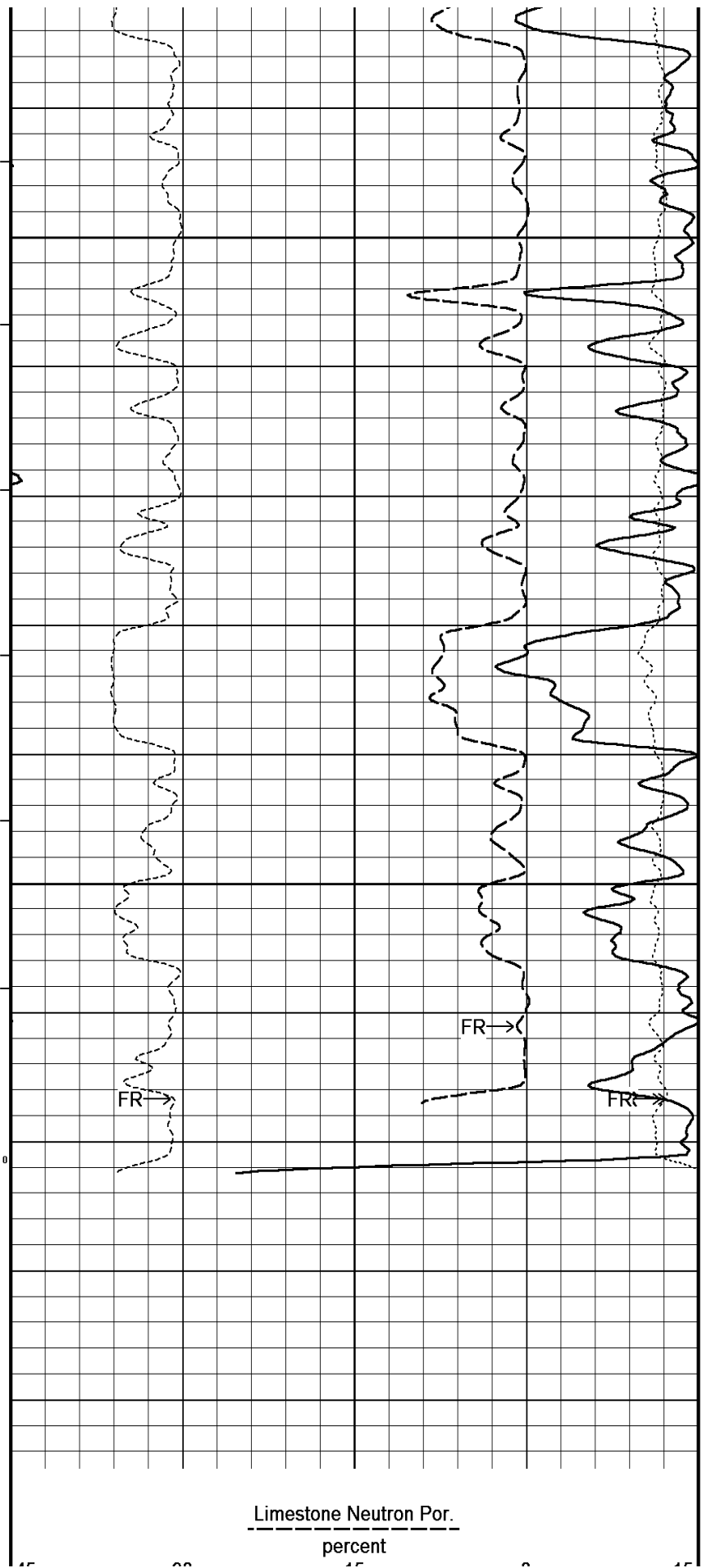


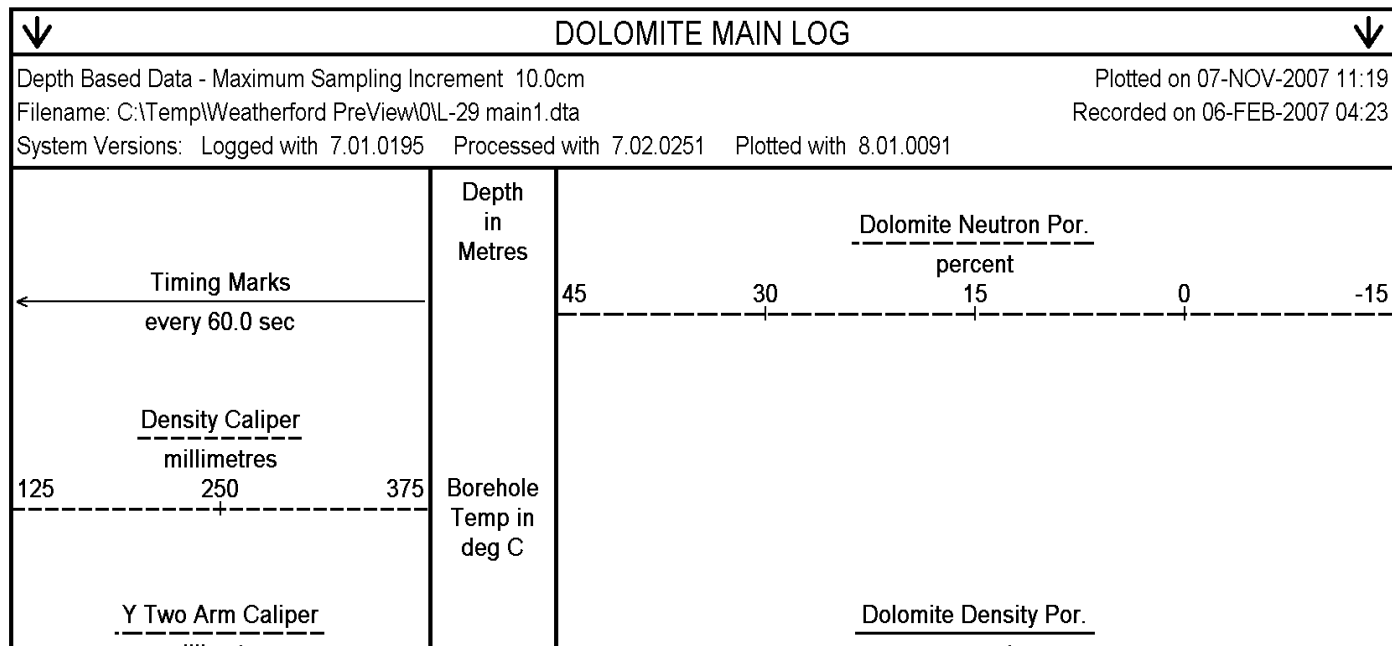
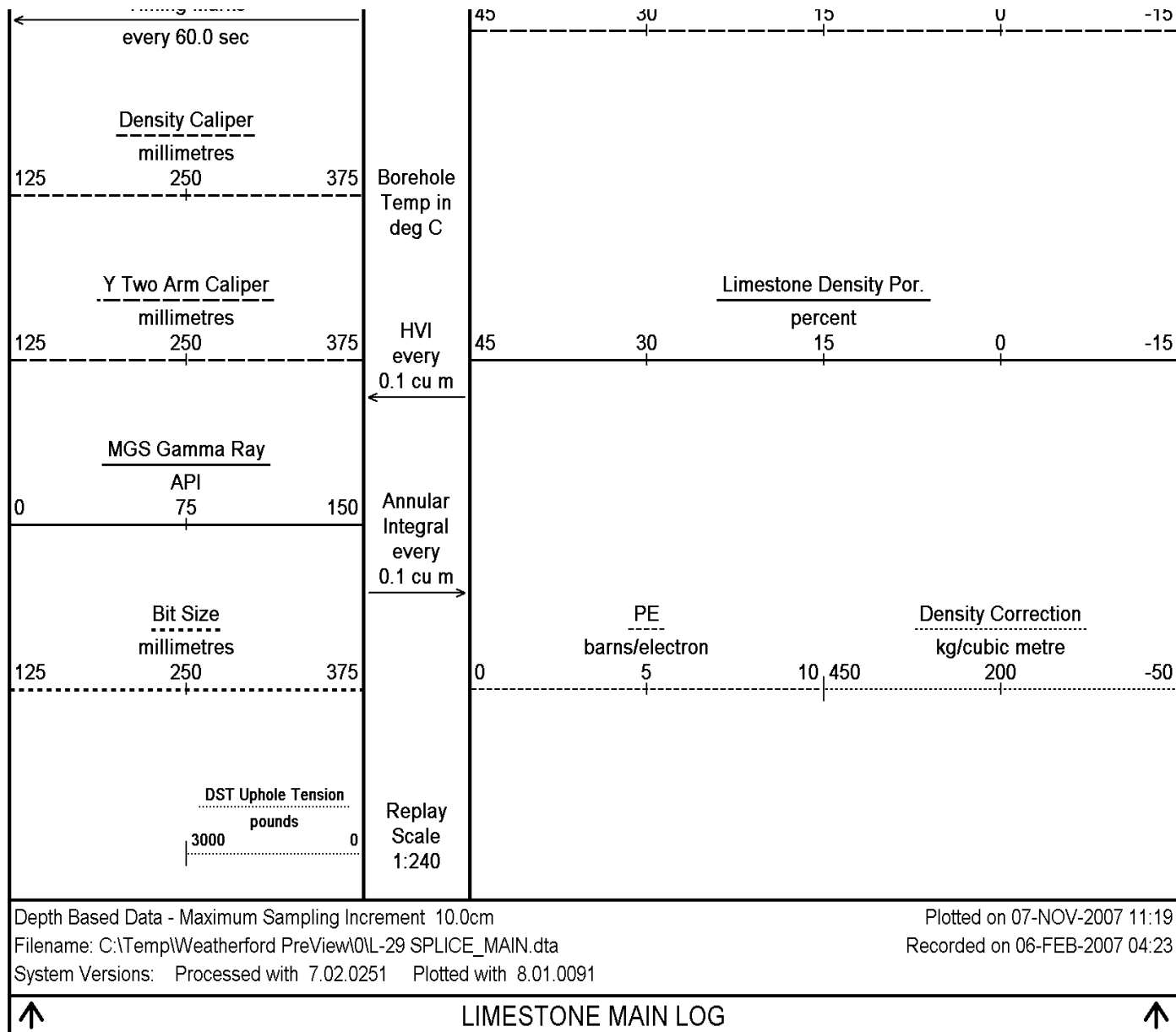


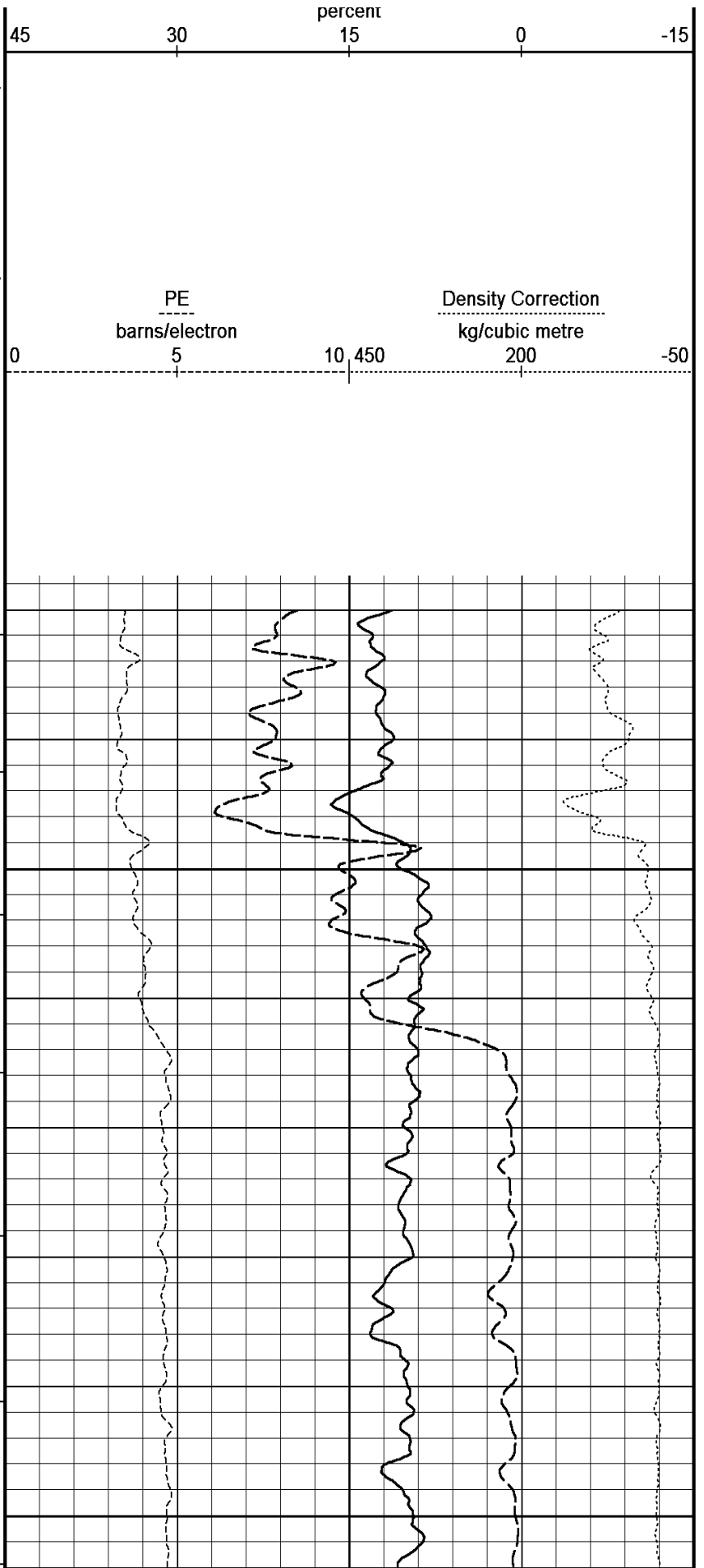
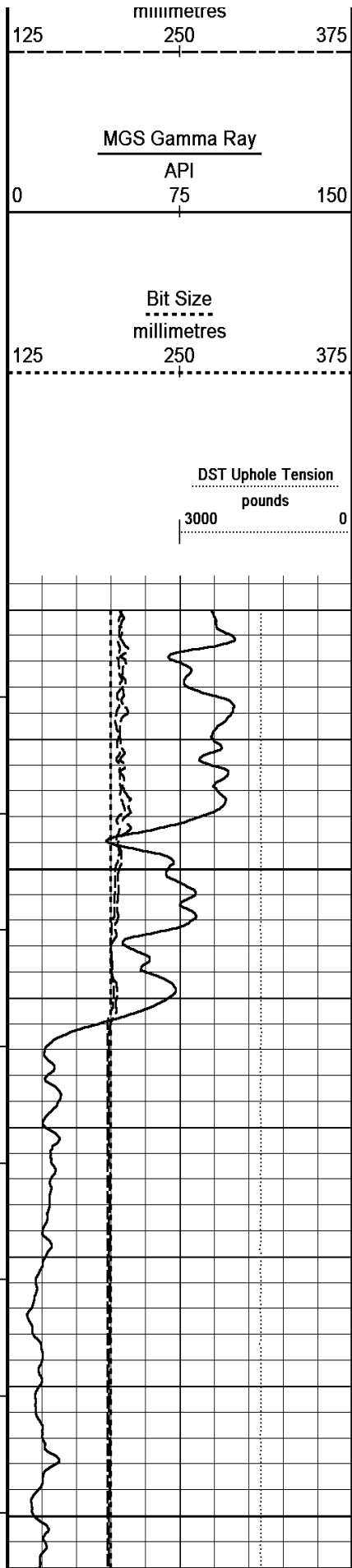


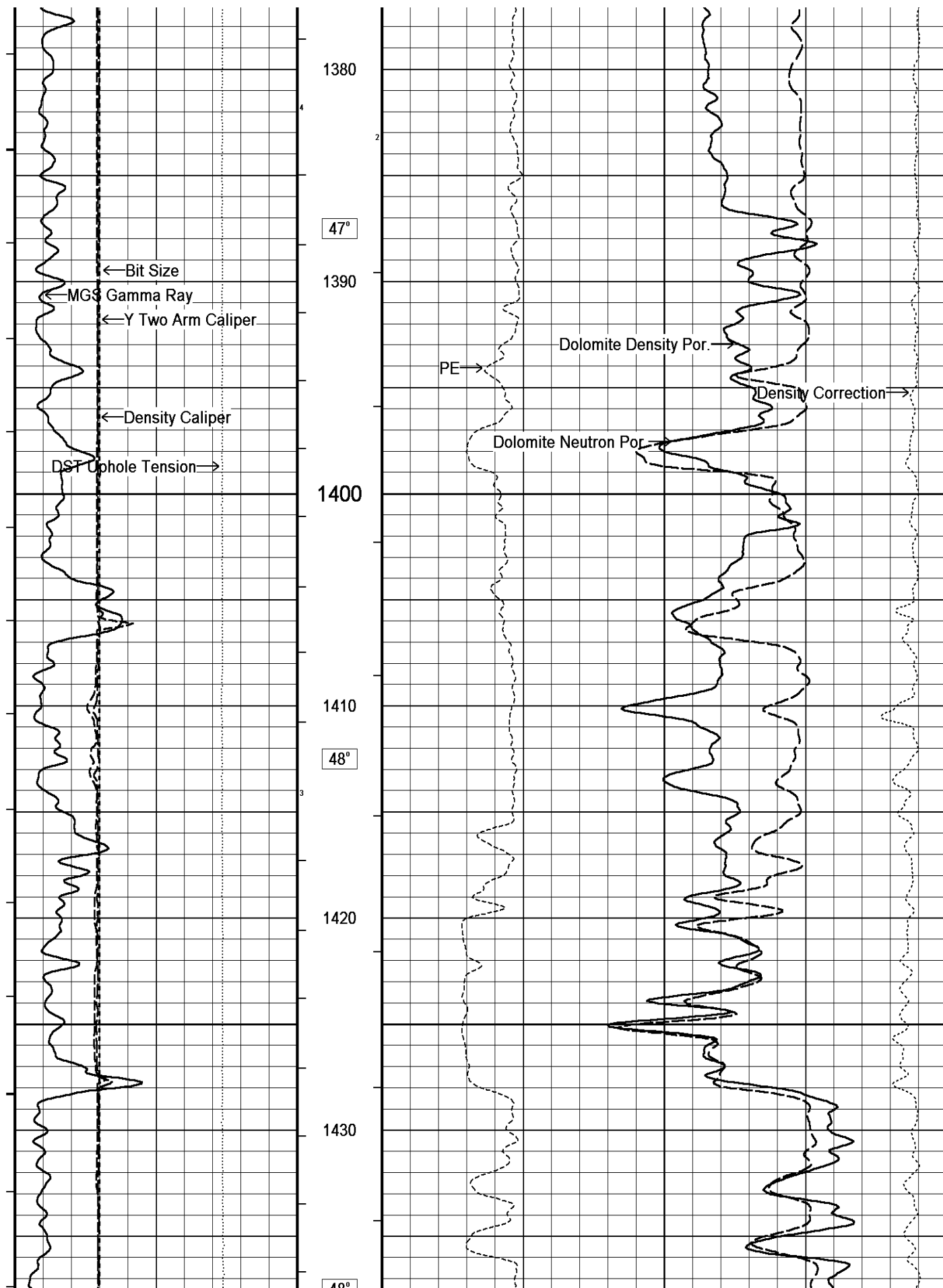


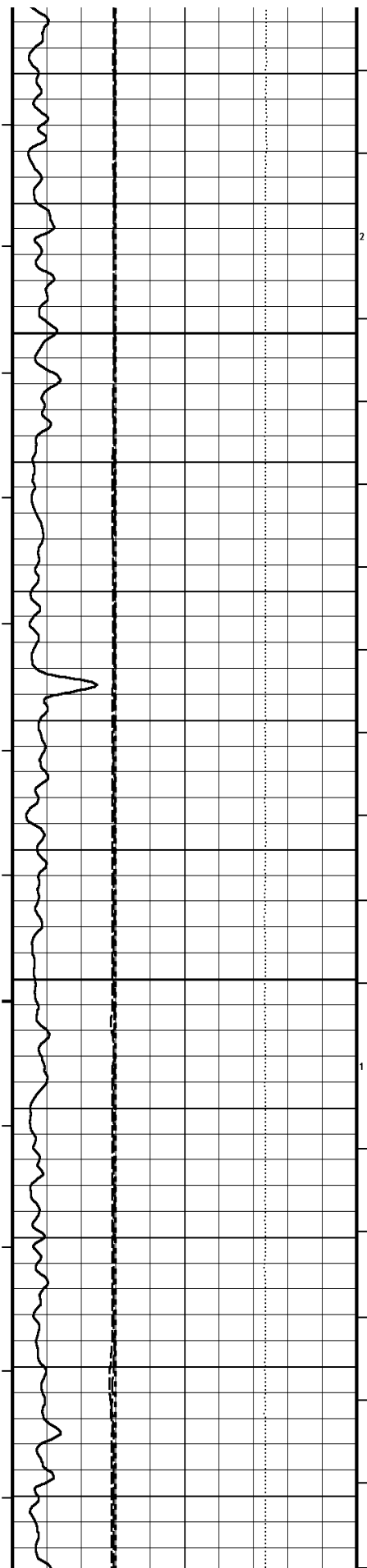
1470
1480
49°
1490
1500
1510
1520
Depth in Metres











40

1440

1450

1460

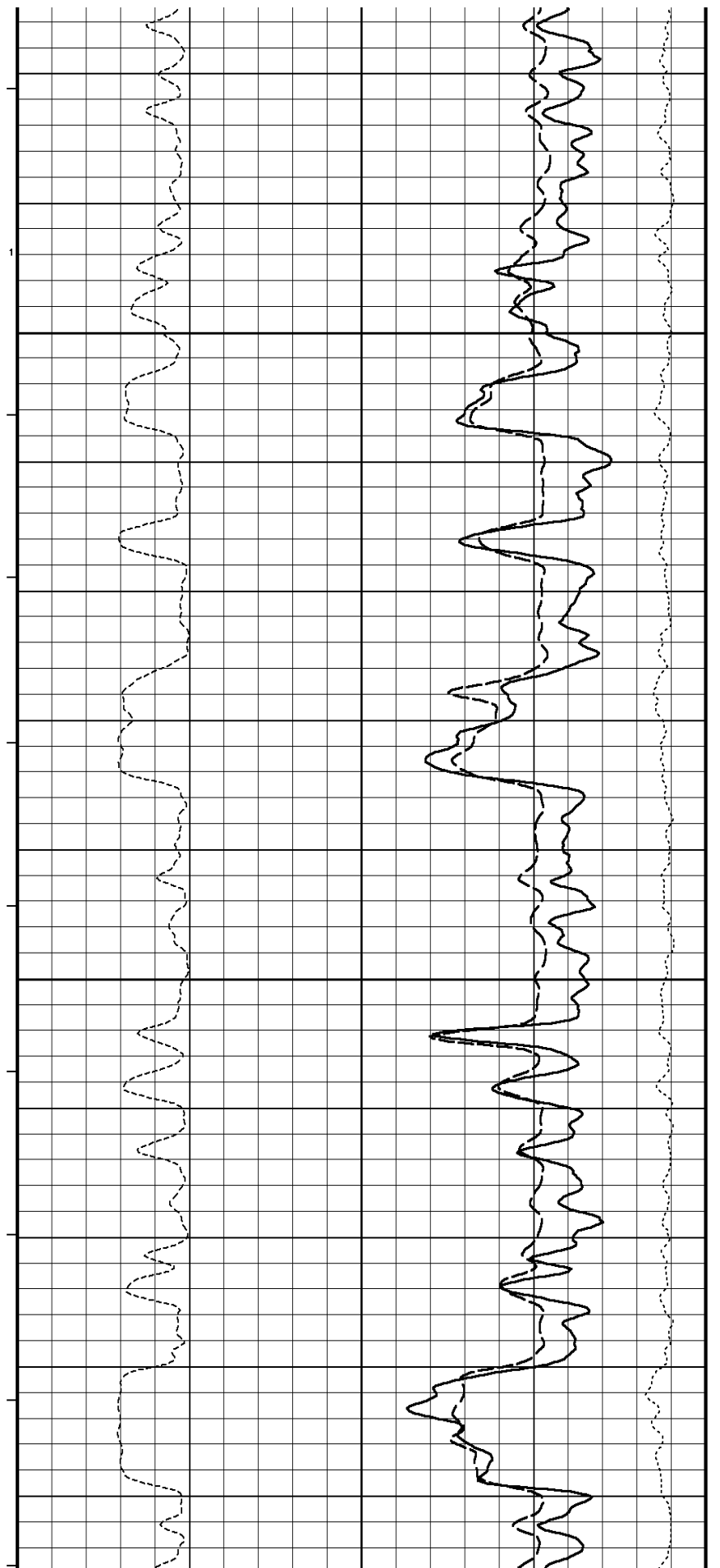
49°

1470

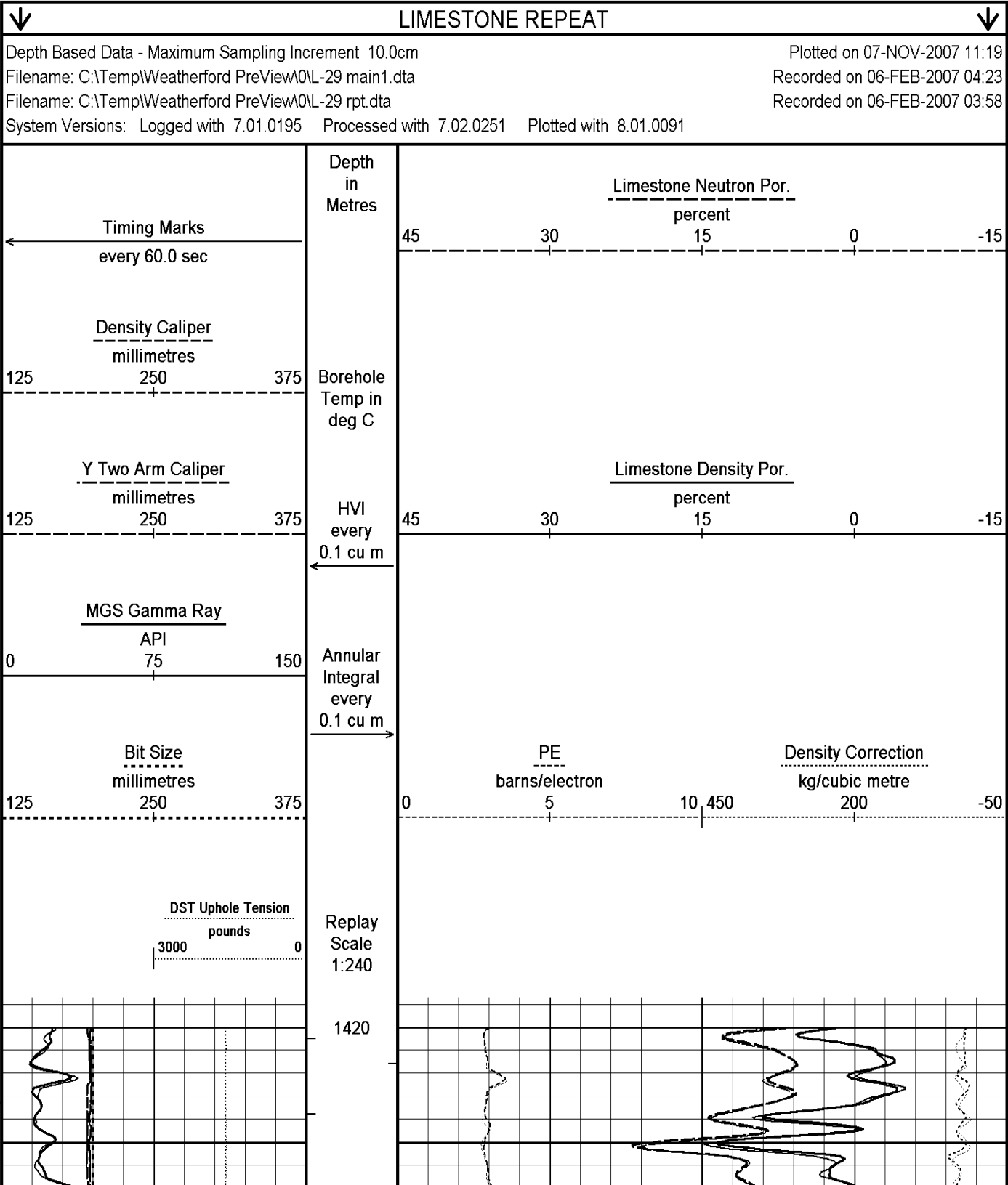
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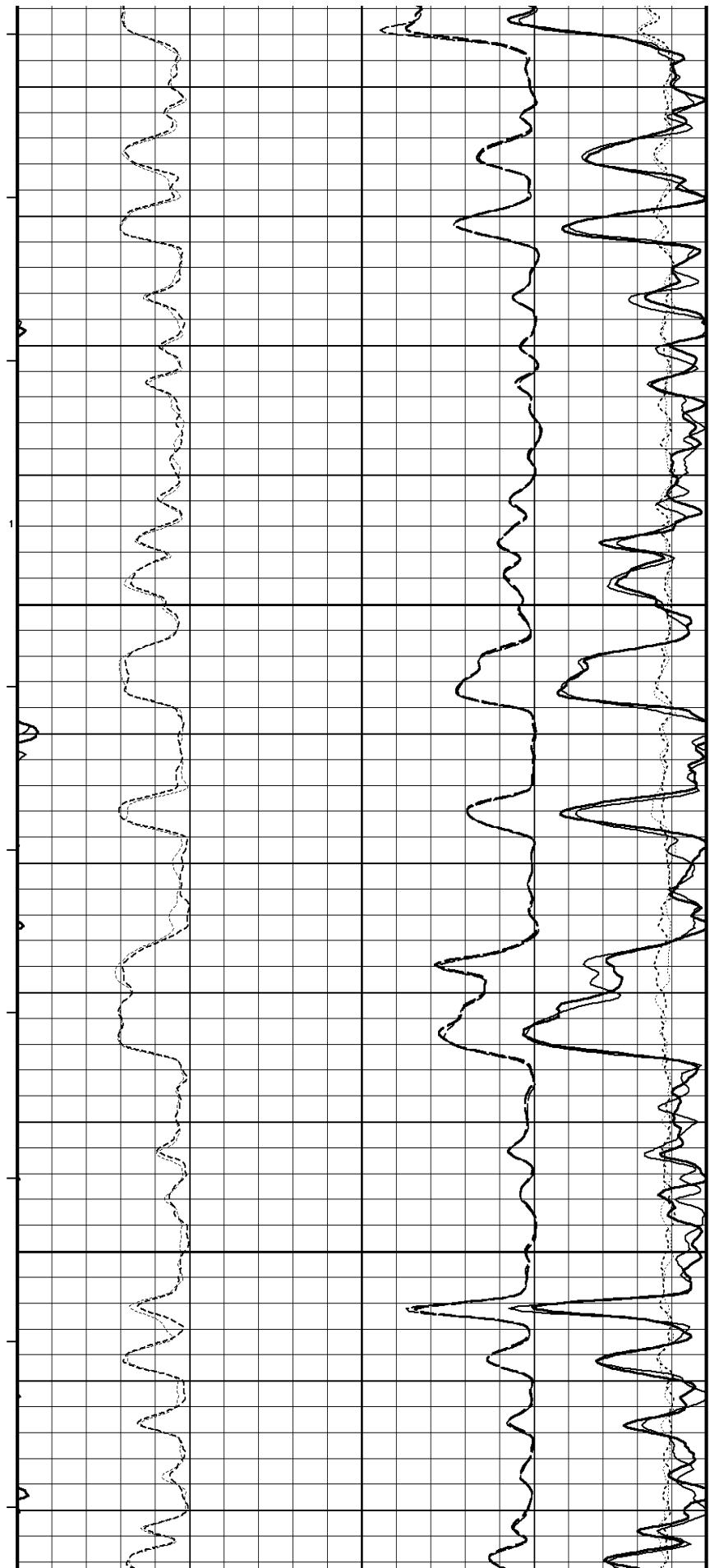
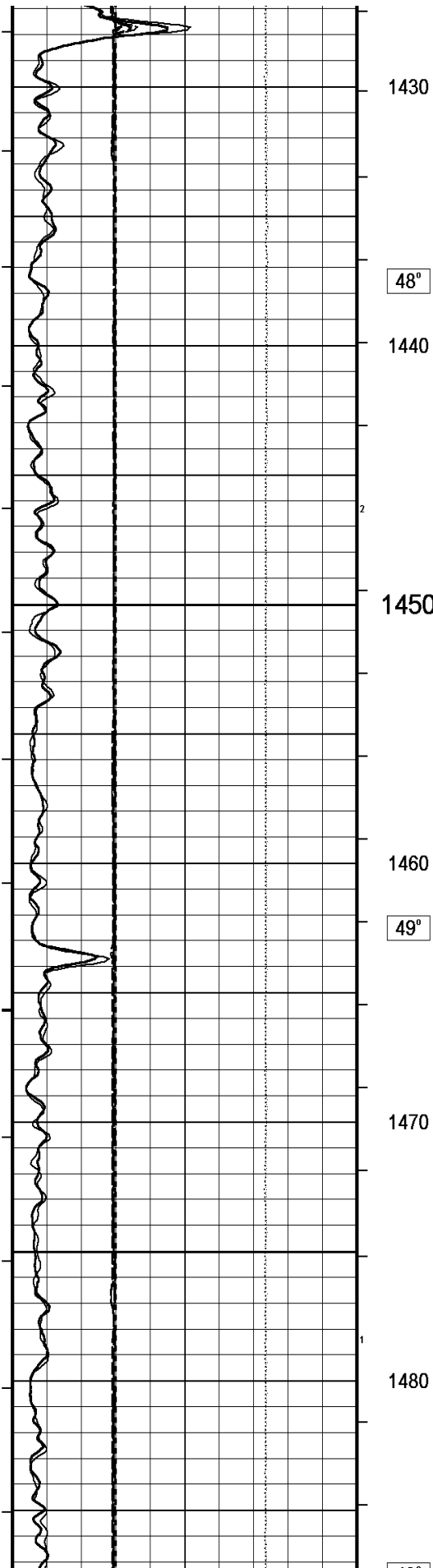
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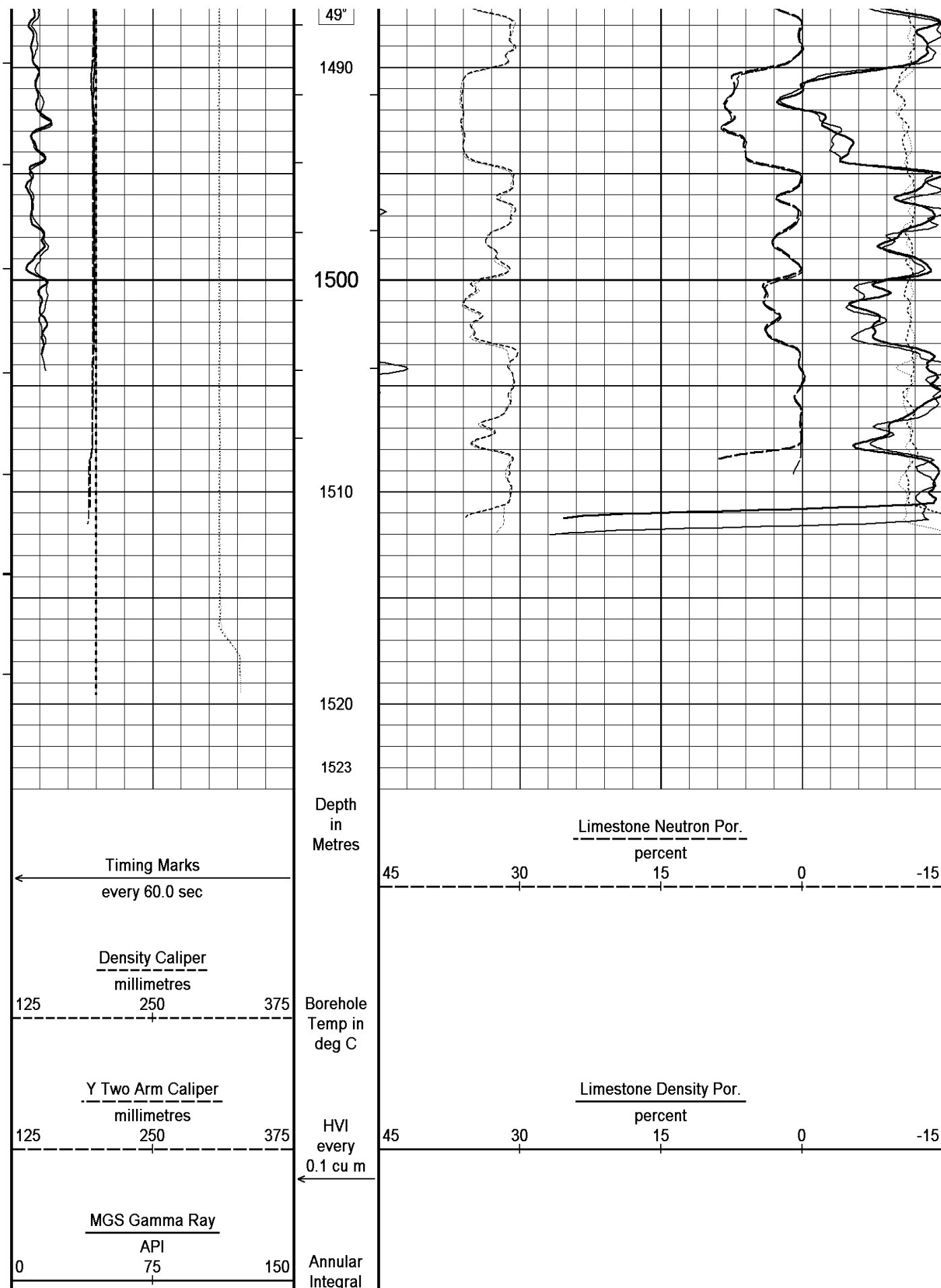
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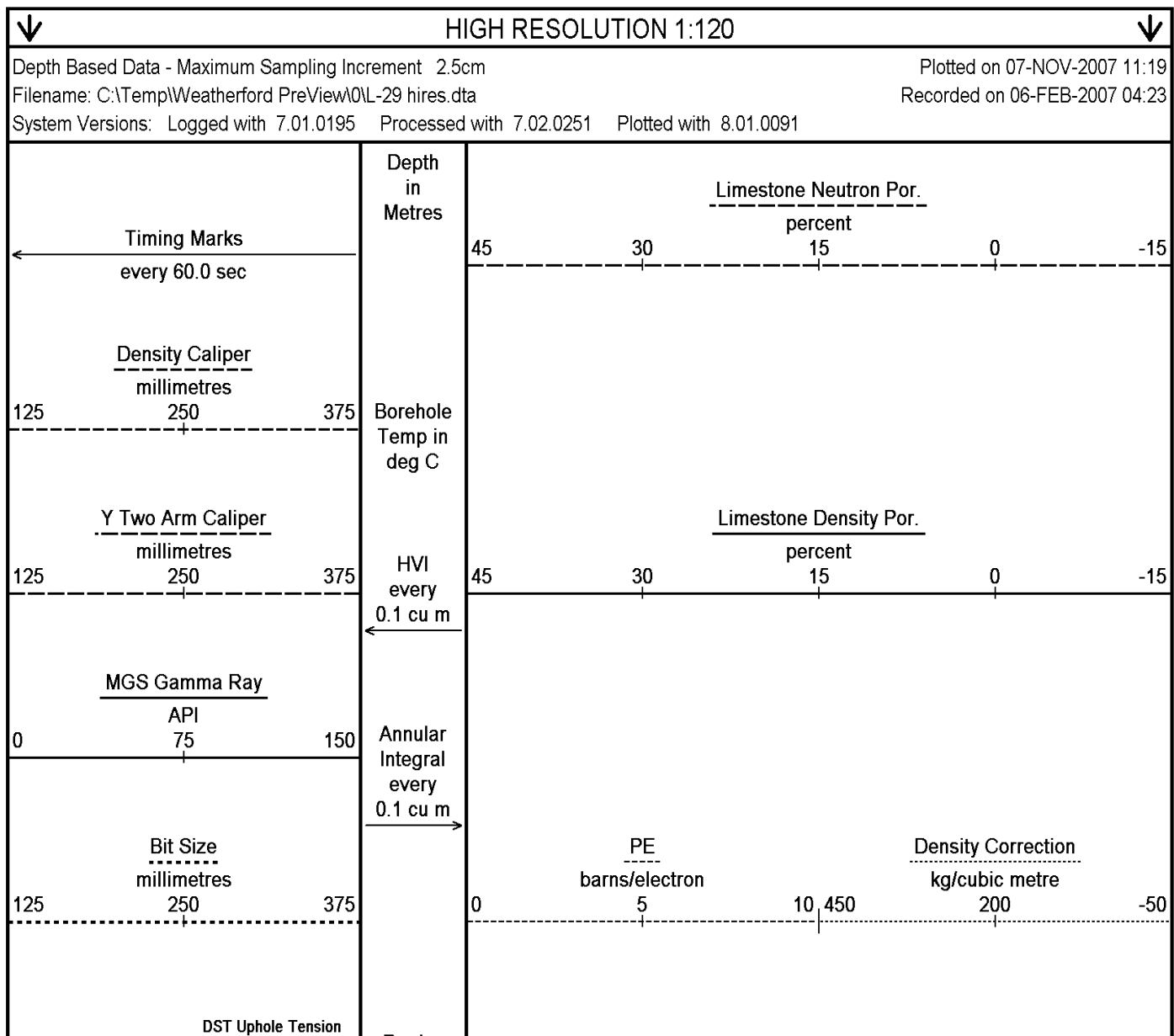
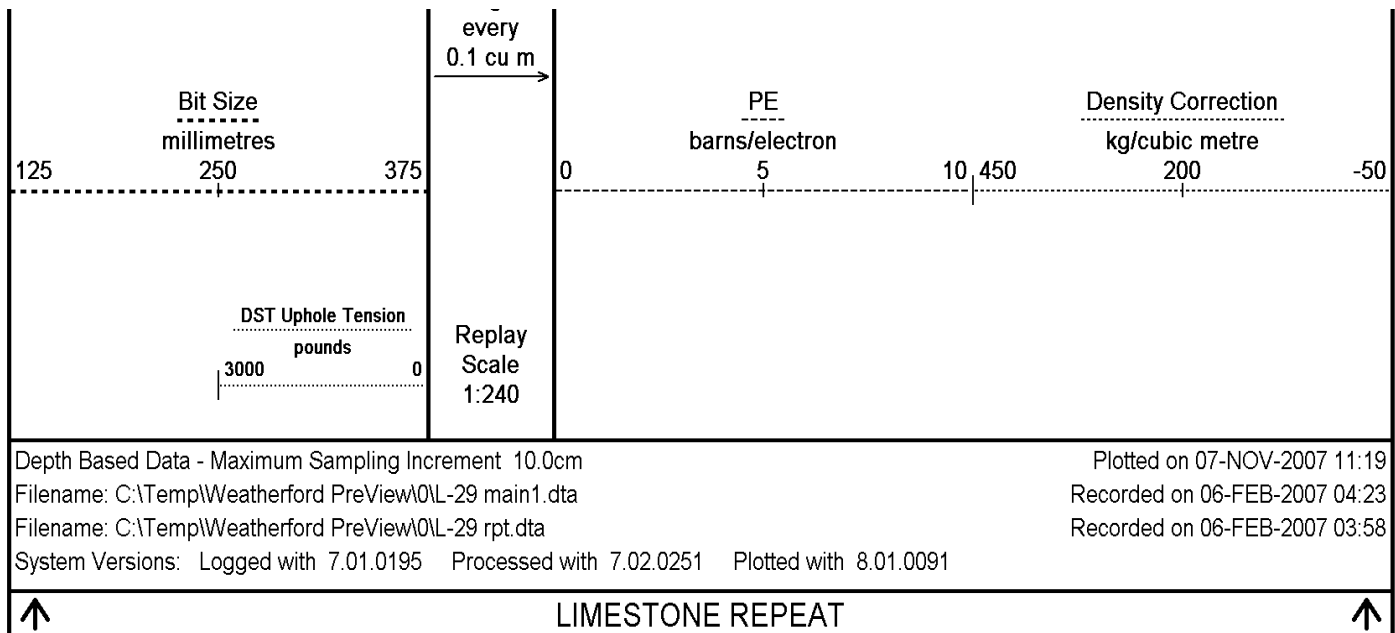


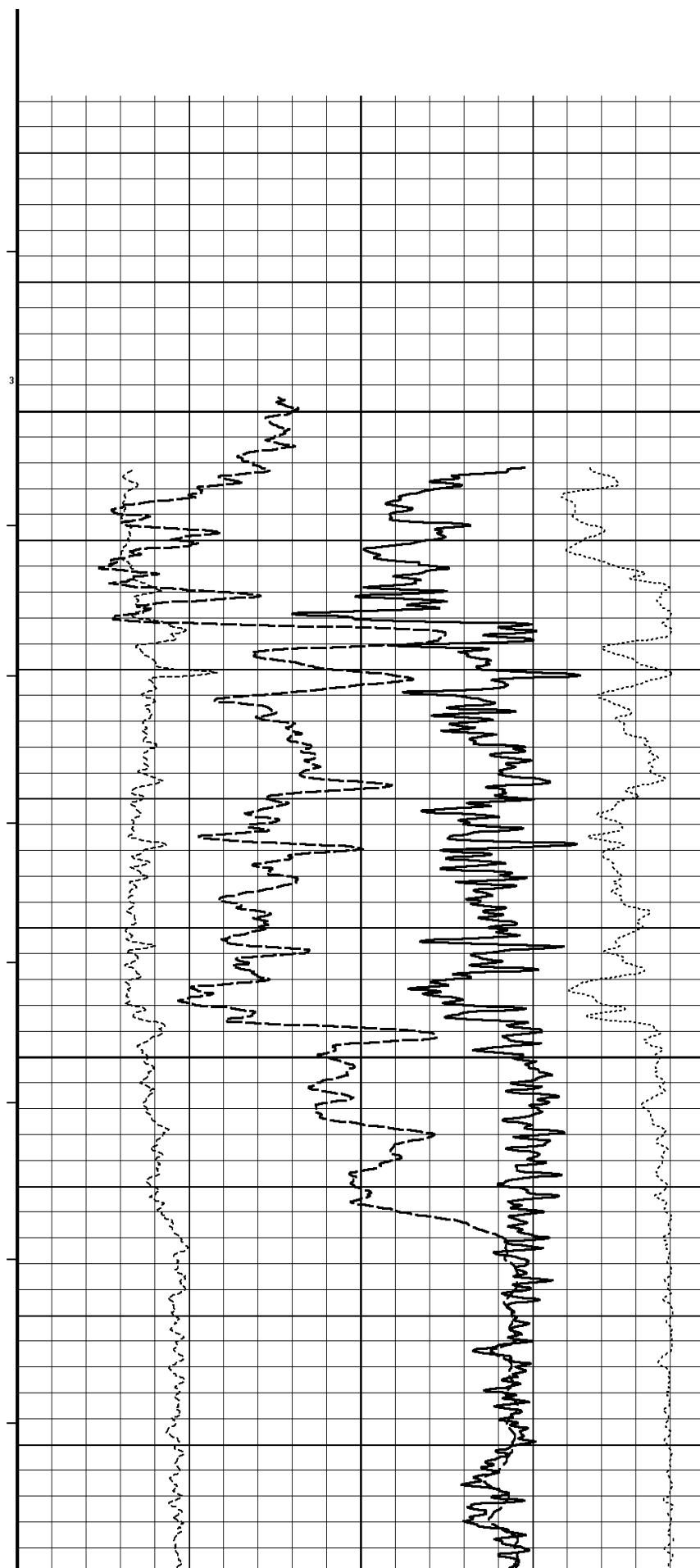
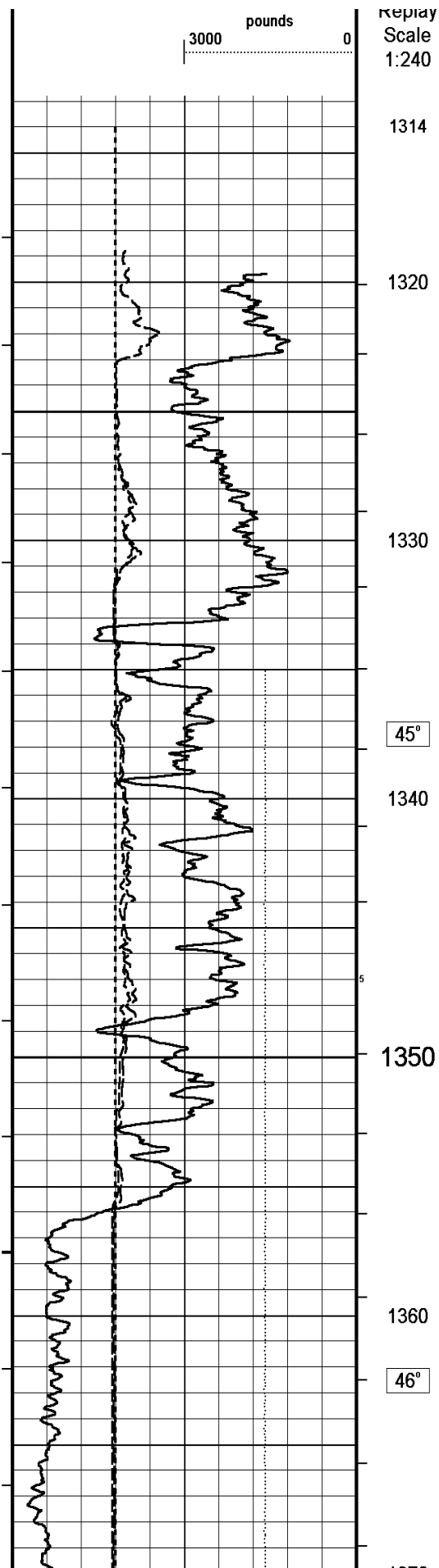
	1:240	
Depth Based Data - Maximum Sampling Increment 10.0cm		Plotted on 07-NOV-2007 11:19
Filename: C:\Temp\Weatherford PreView\0\L-29 main1.dta		Recorded on 06-FEB-2007 04:23
System Versions: Logged with 7.01.0195 Processed with 7.02.0251 Plotted with 8.01.0091		
↑	DOLOMITE MAIN LOG	↑

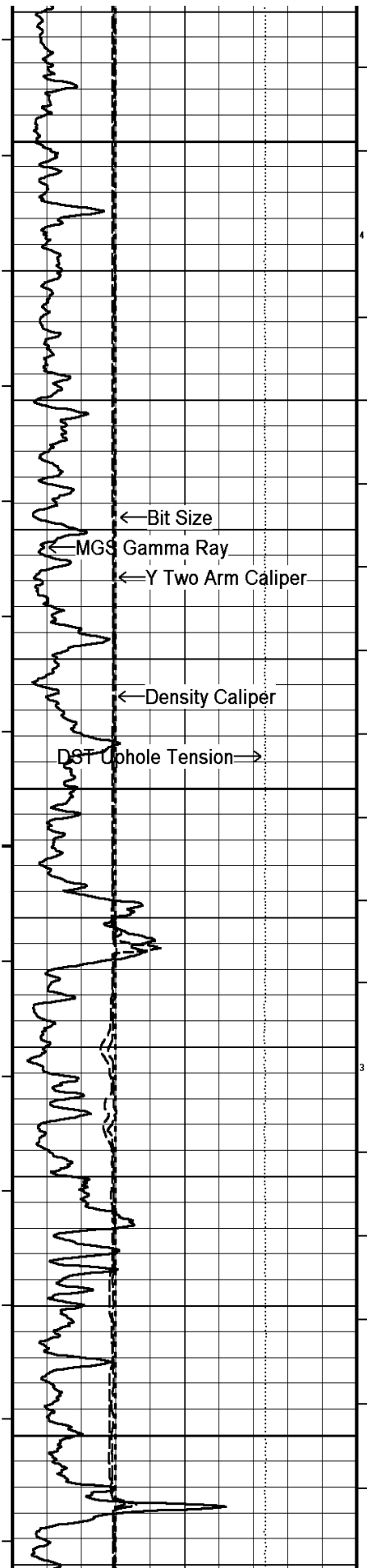












1370

1380

47°

1390

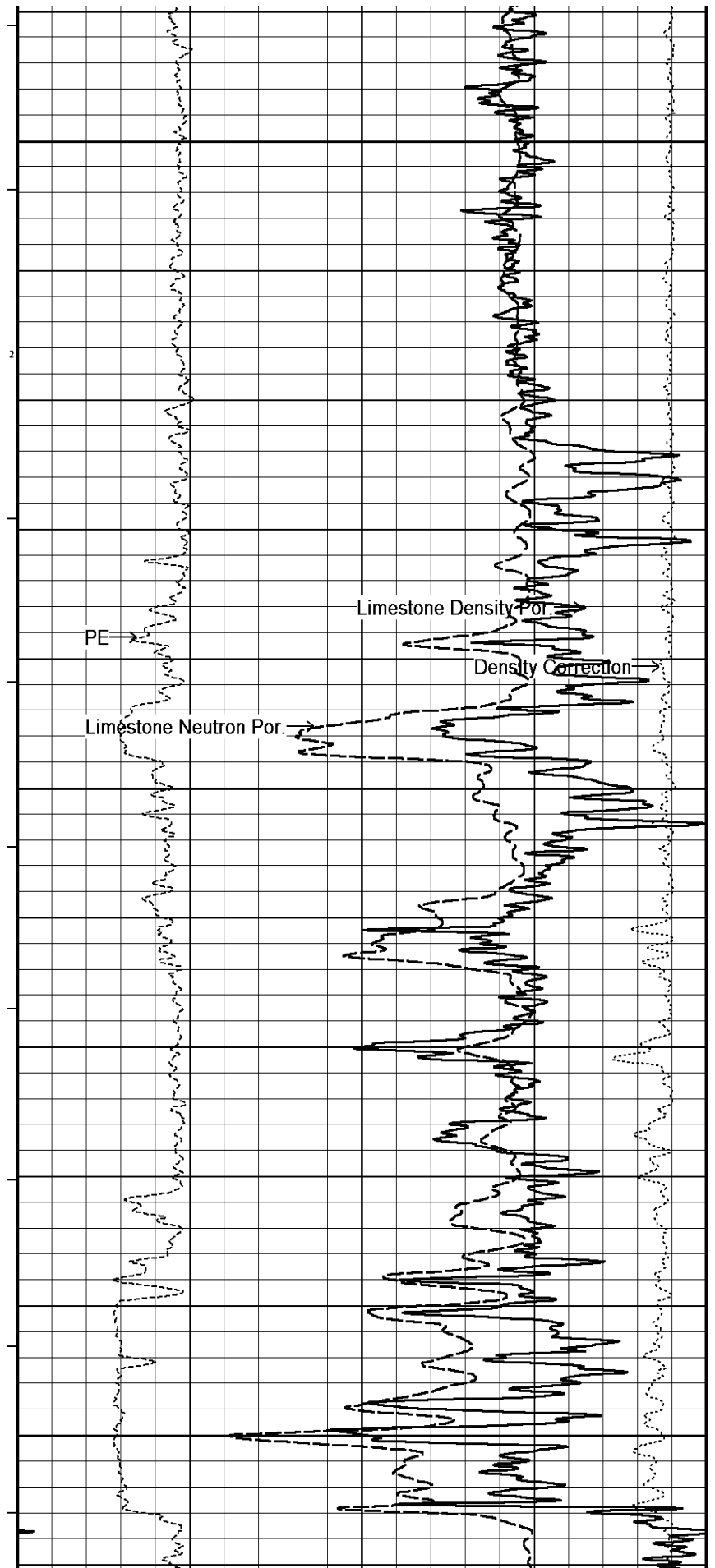
1400

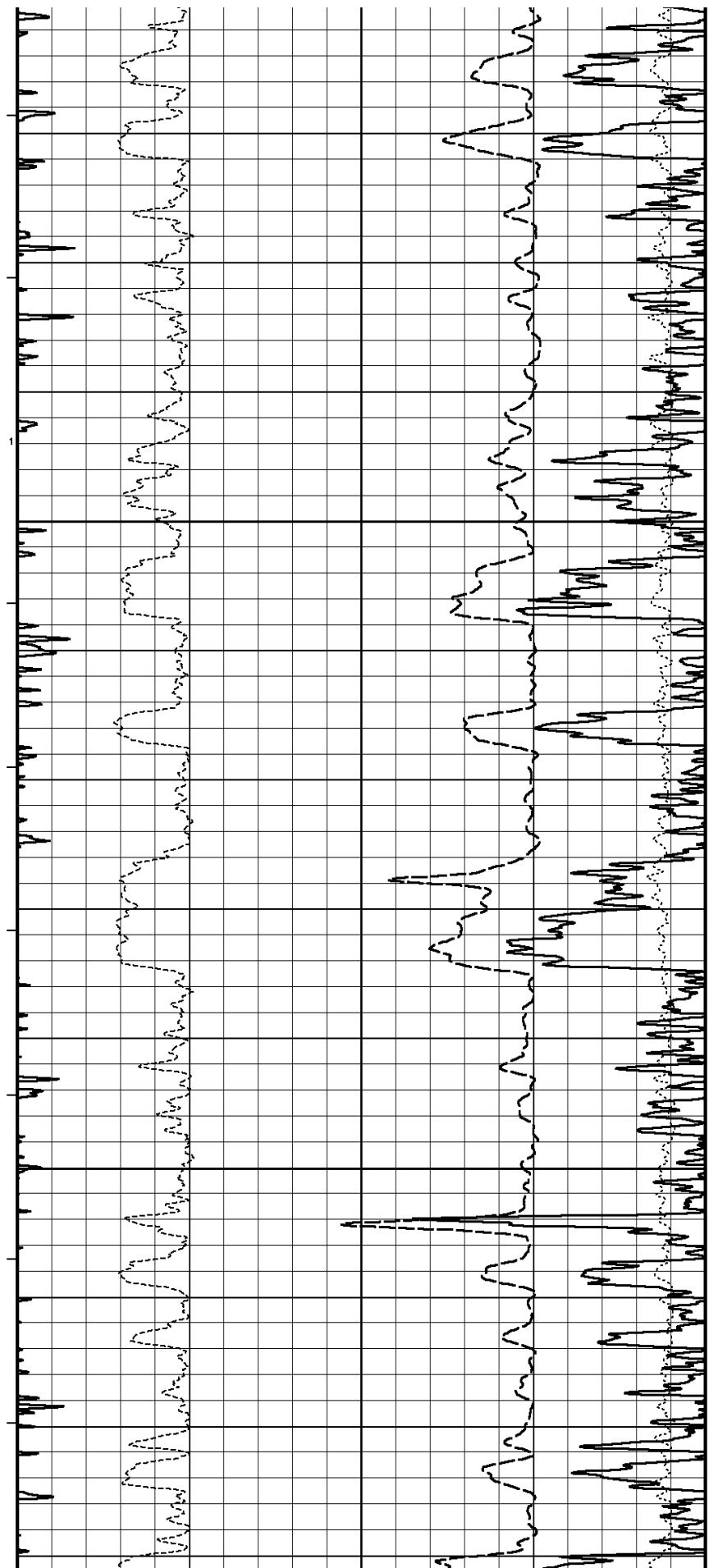
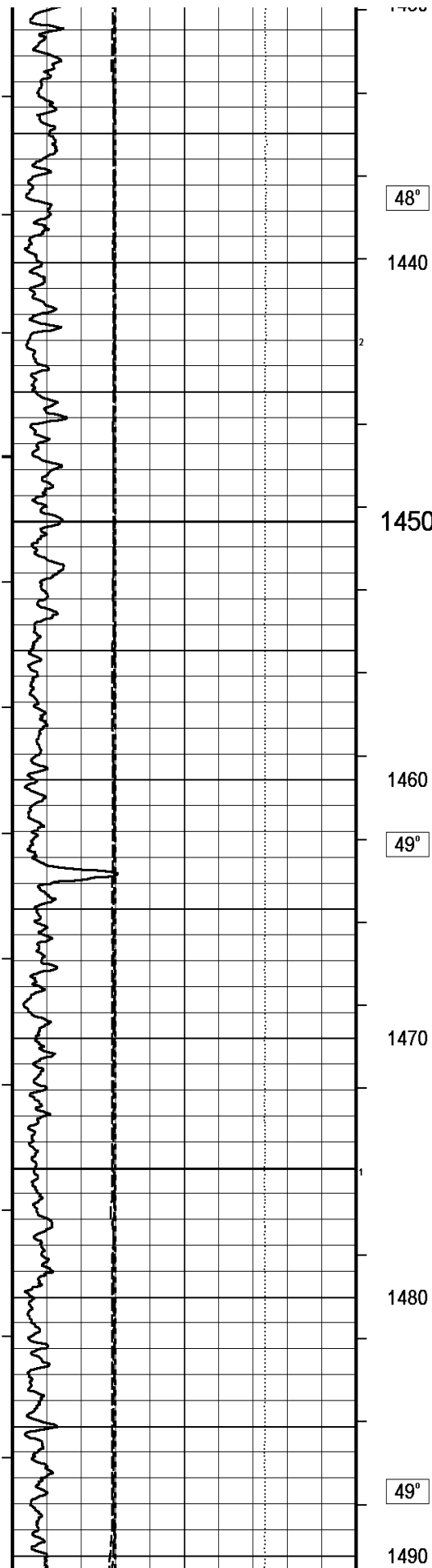
1410

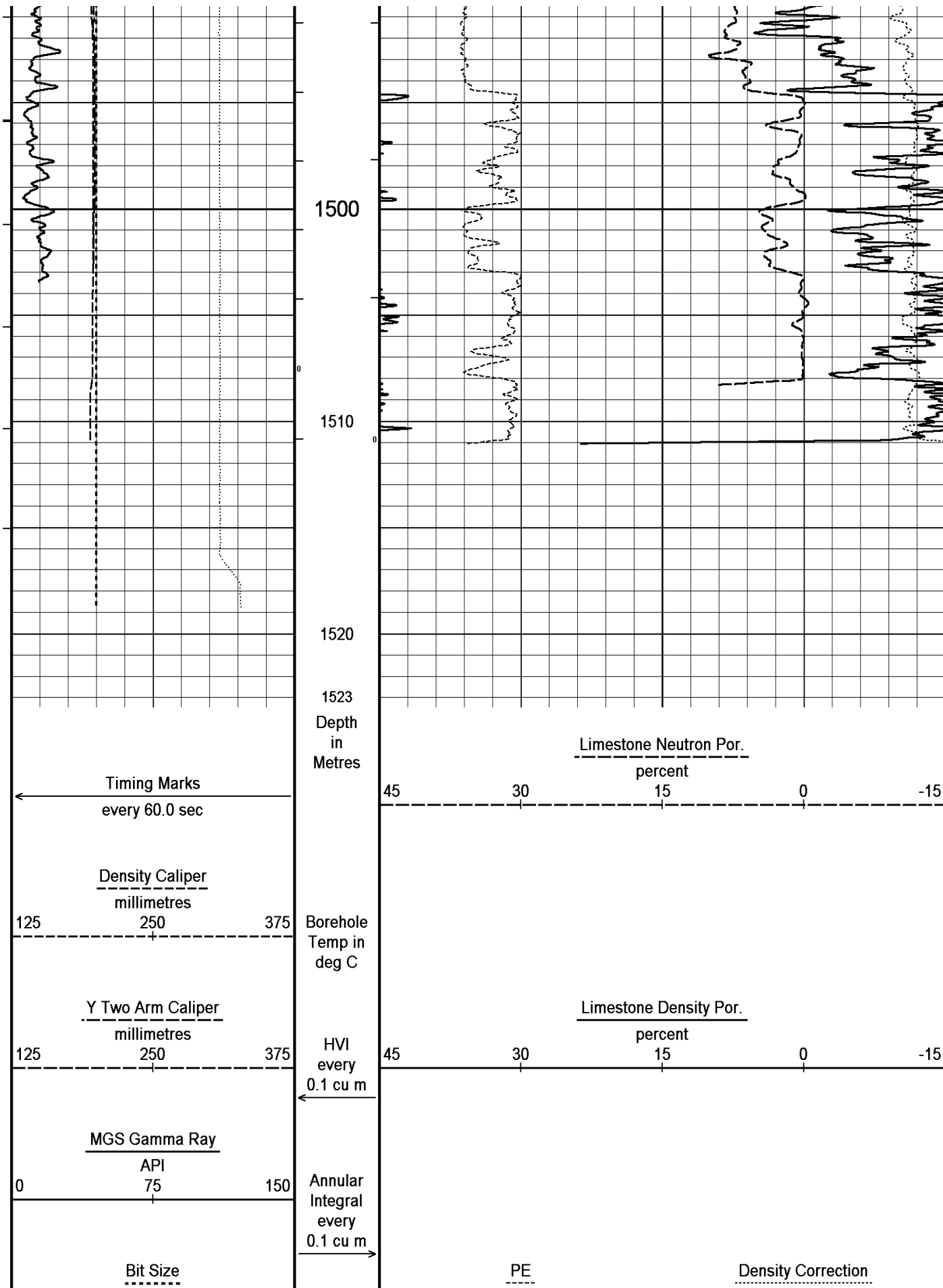
48°

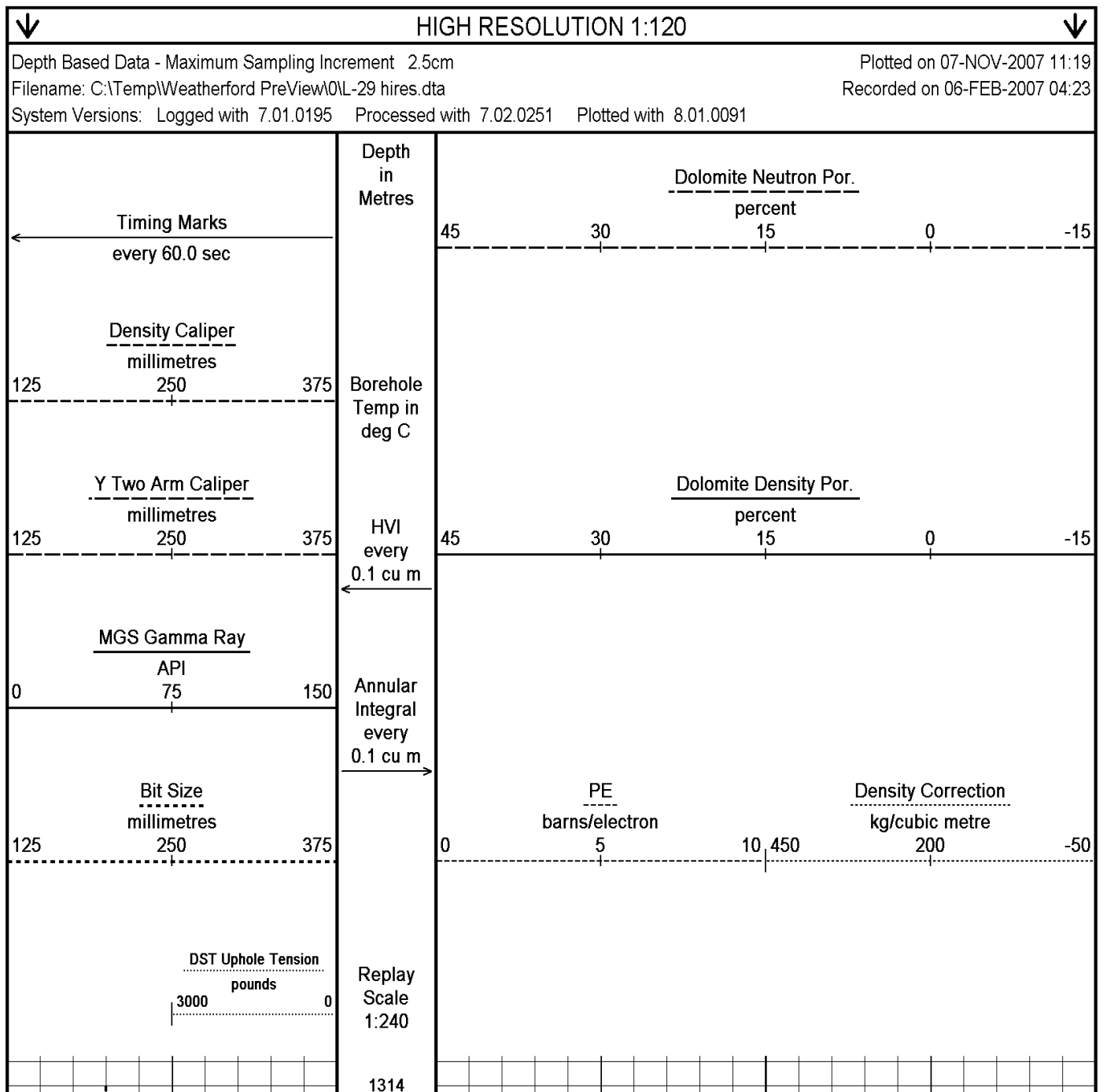
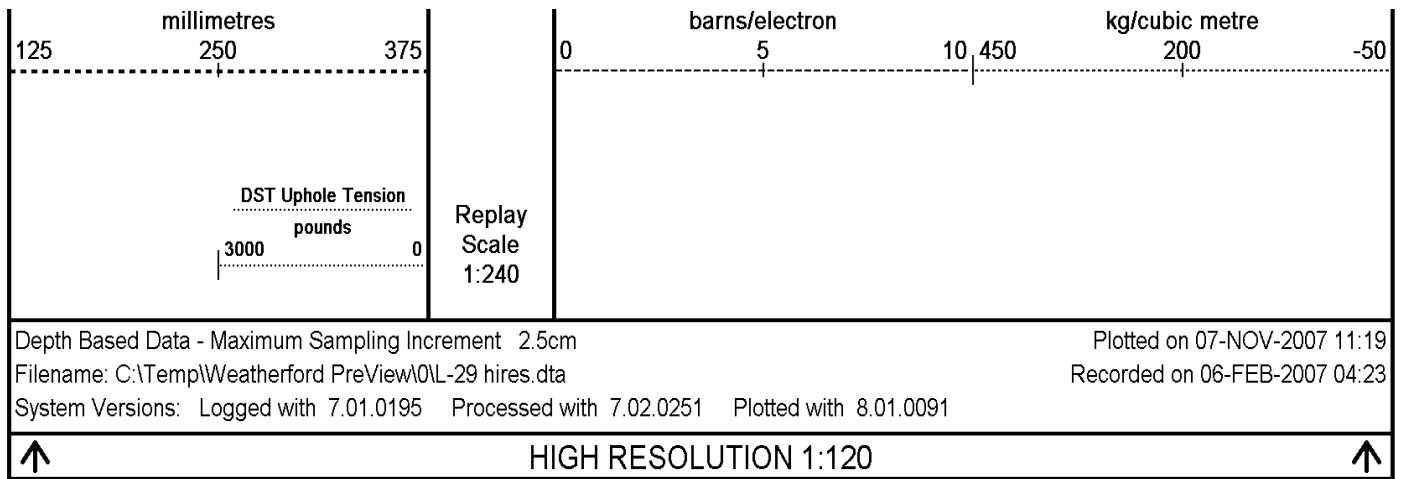
1420

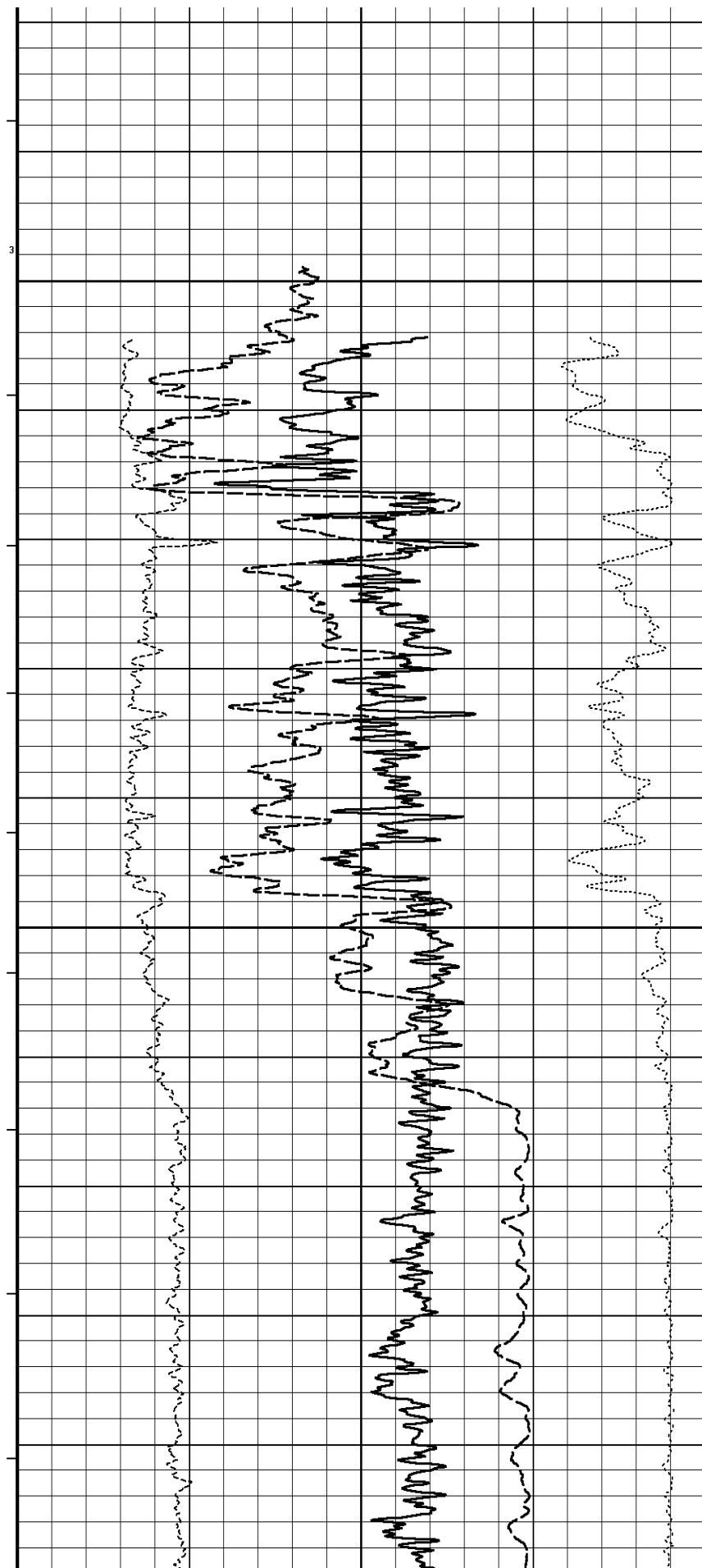
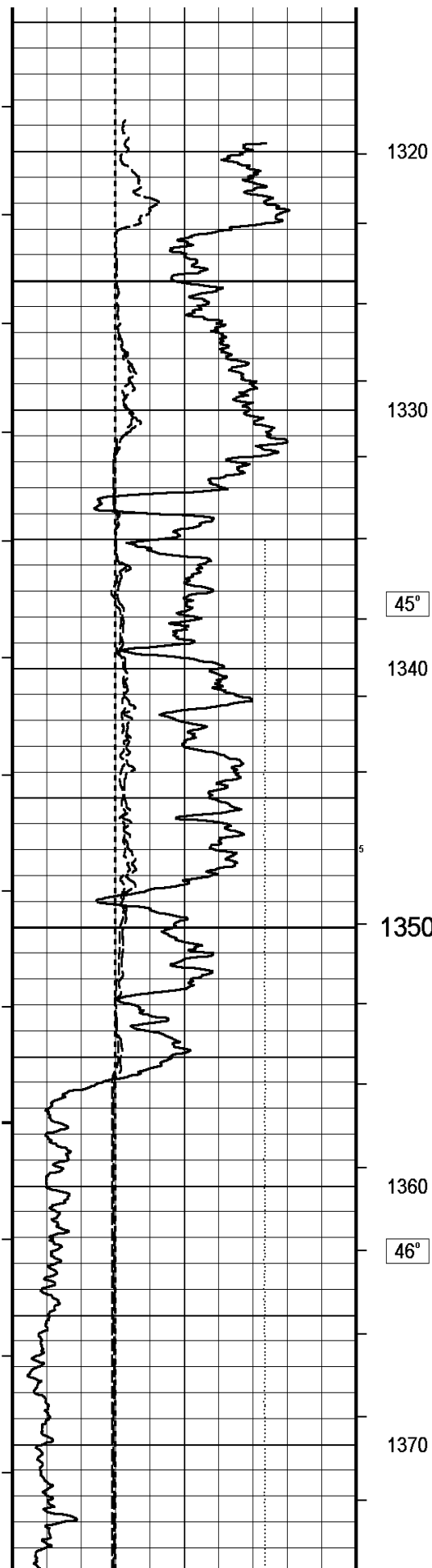
1430

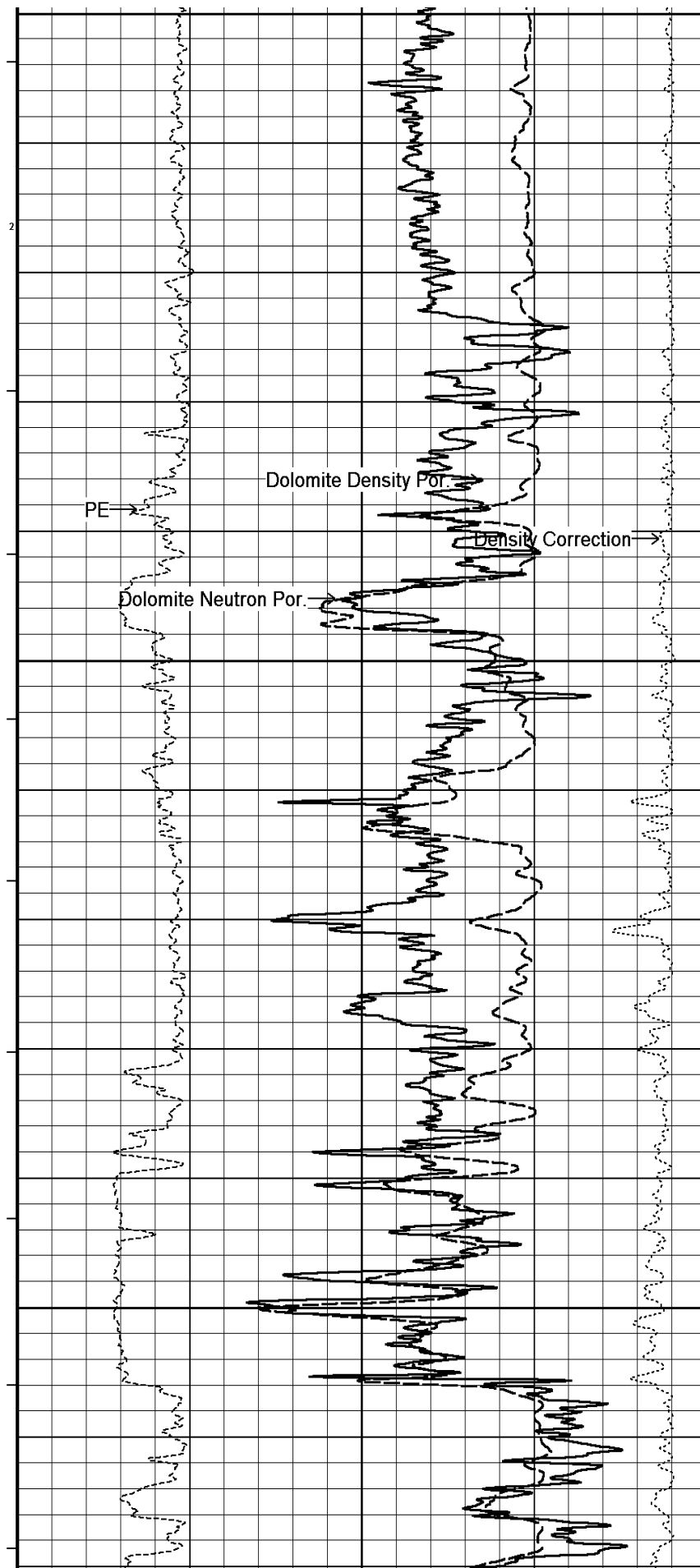
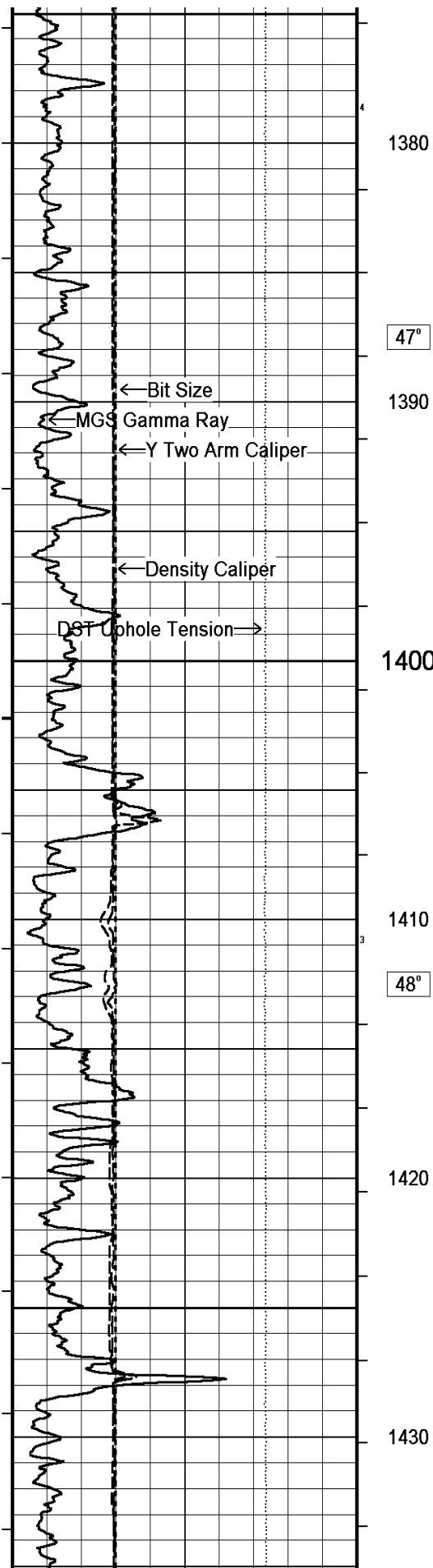


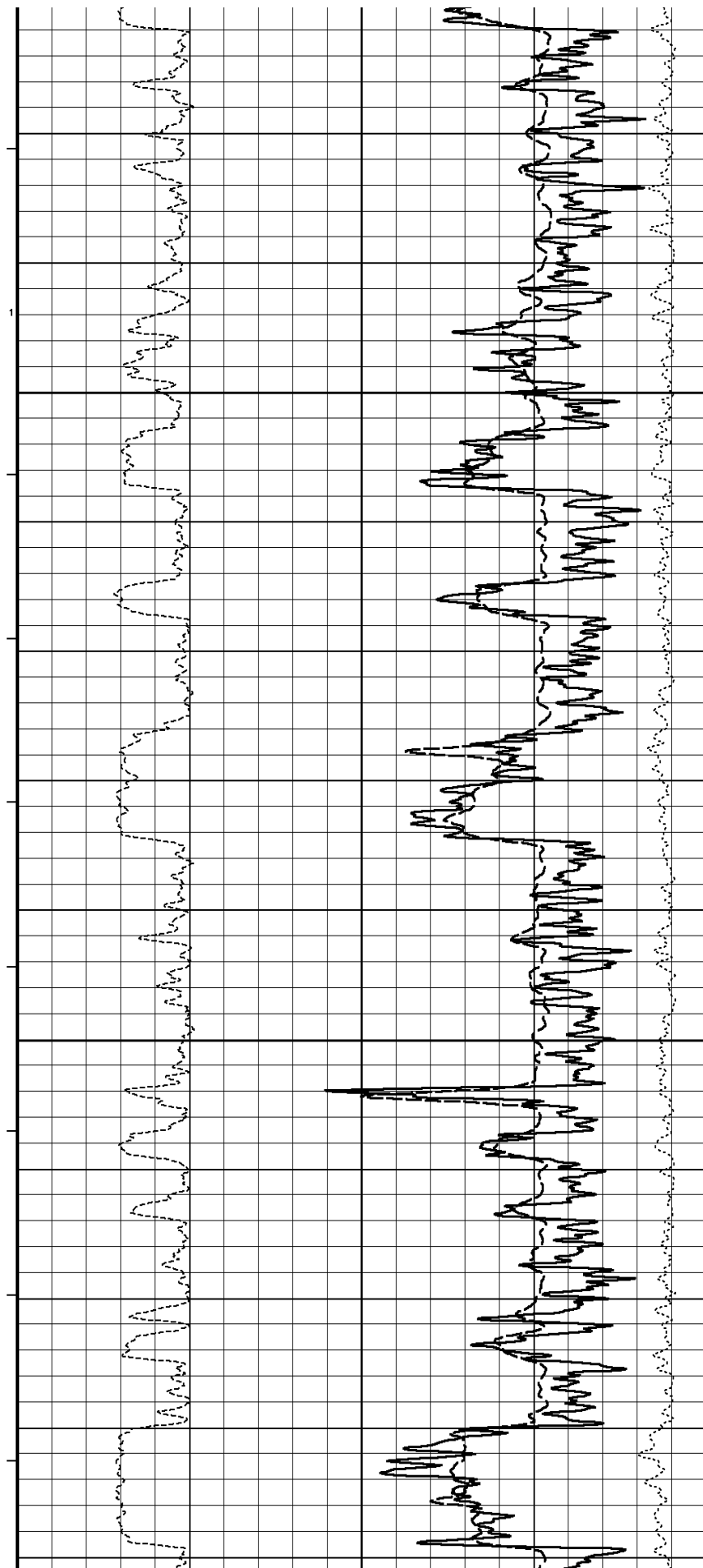
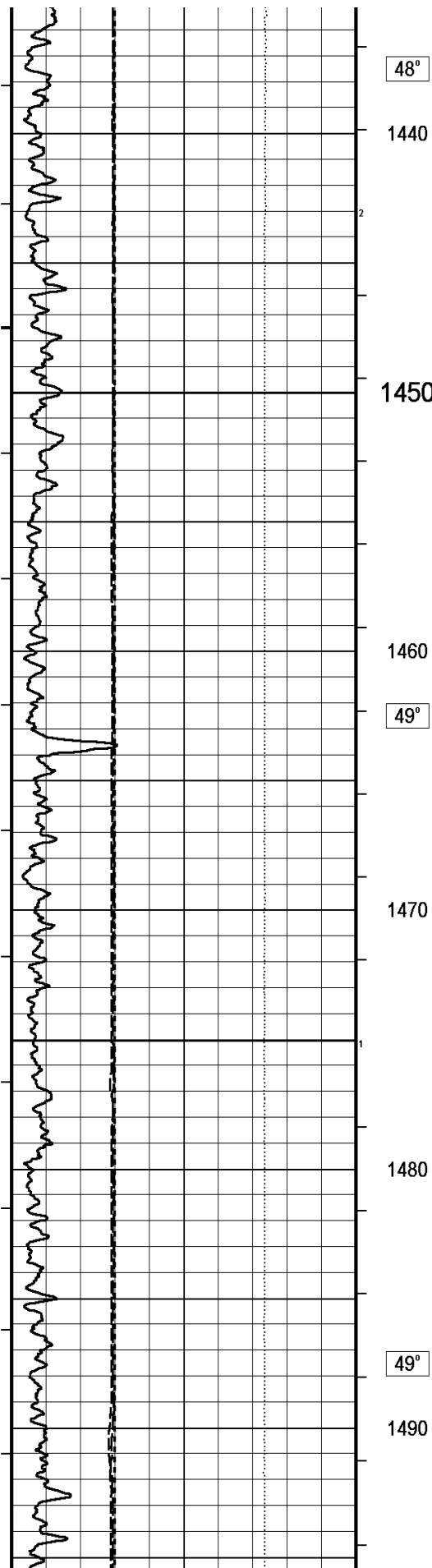


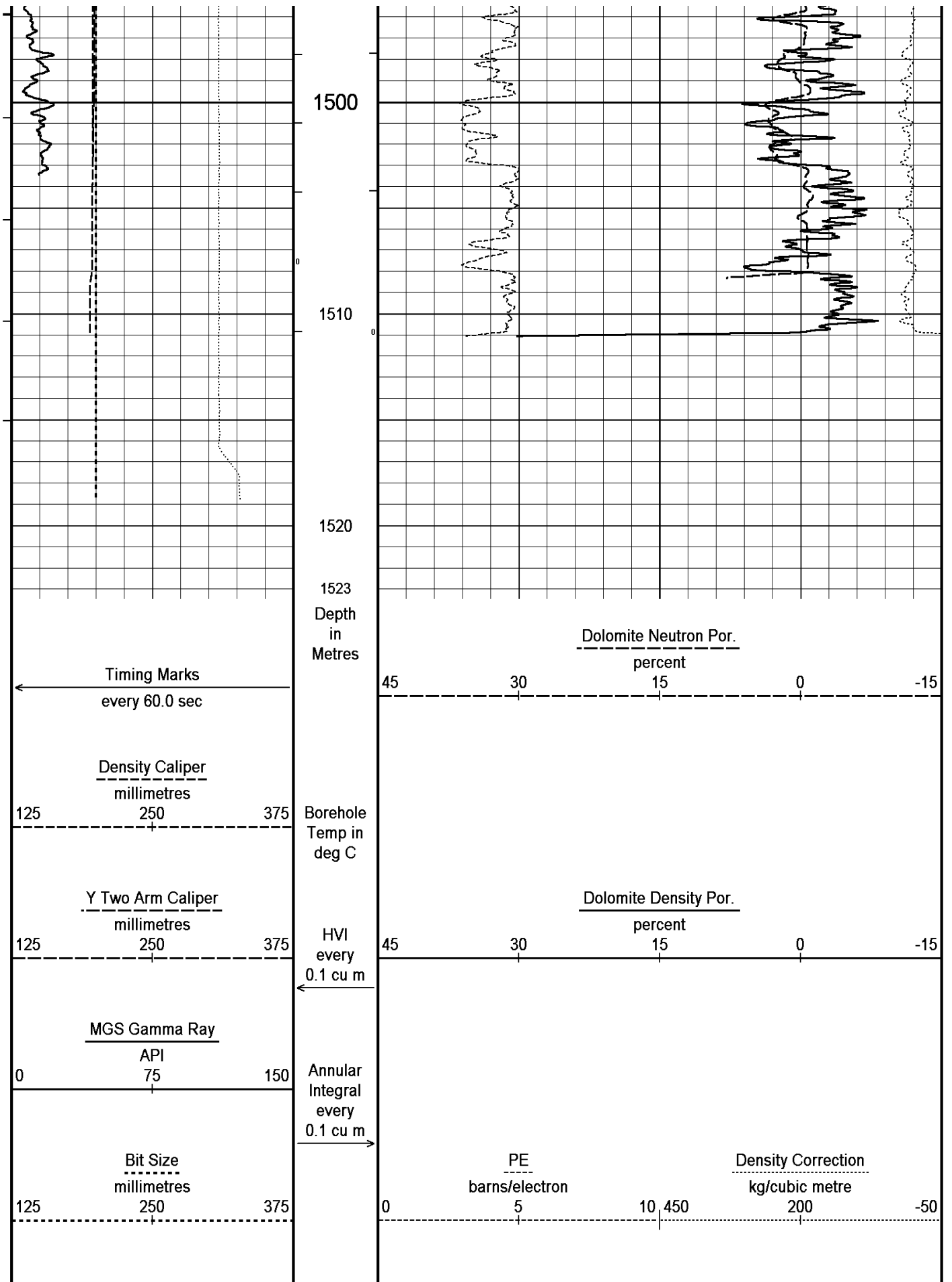












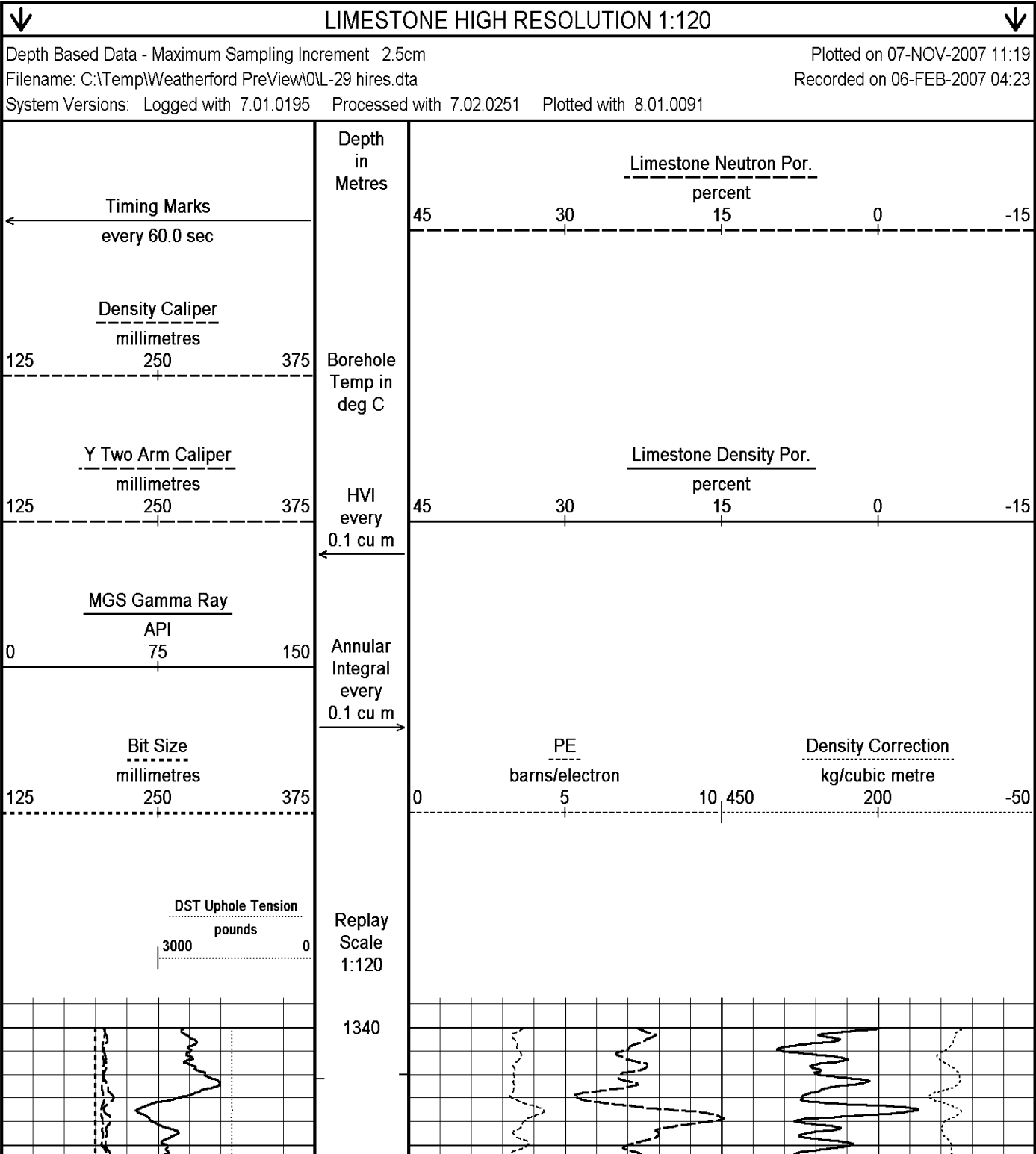
DST Uphole Tension
pounds

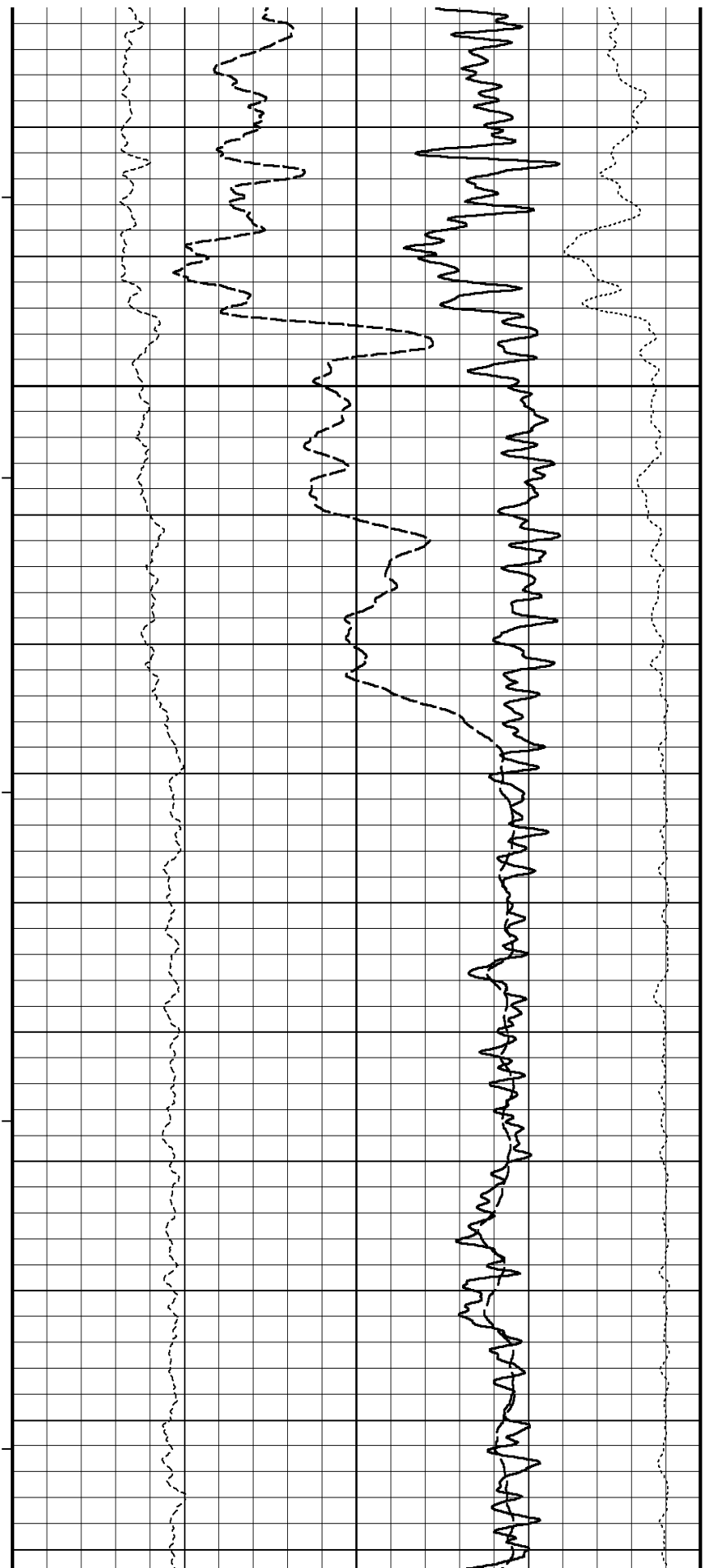
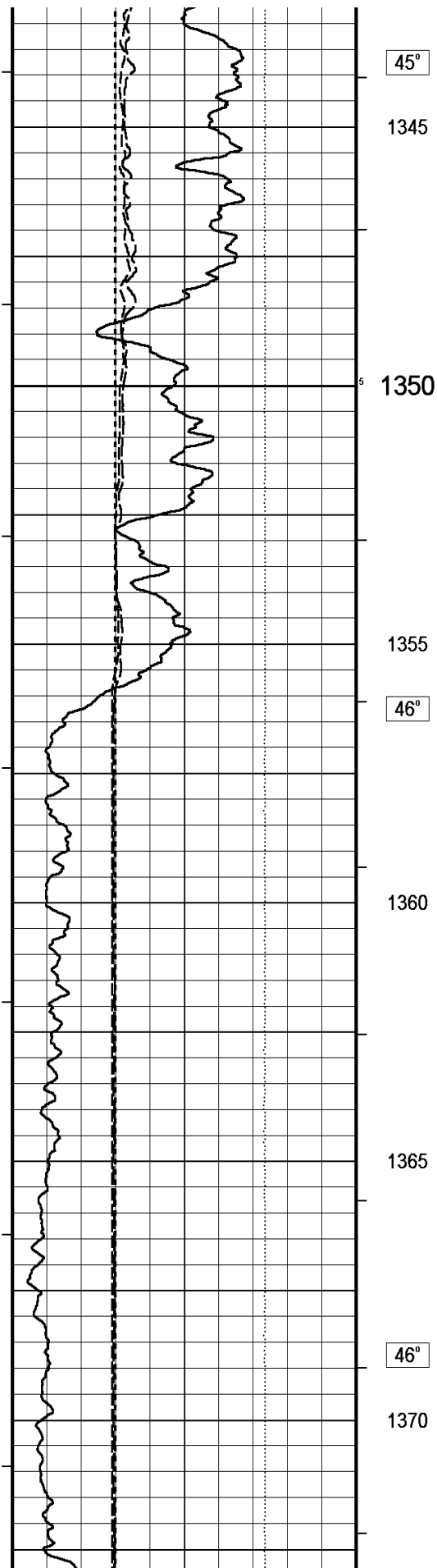
30000

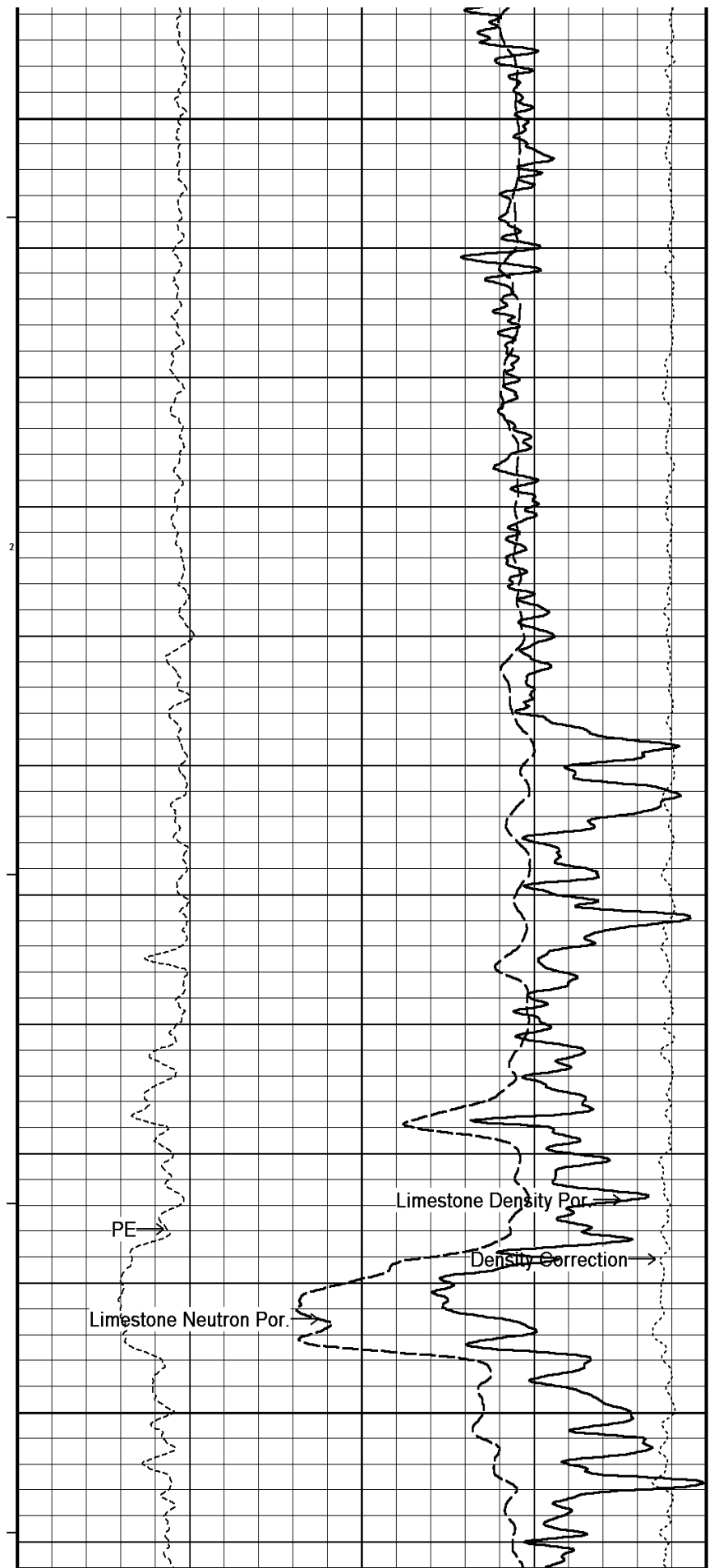
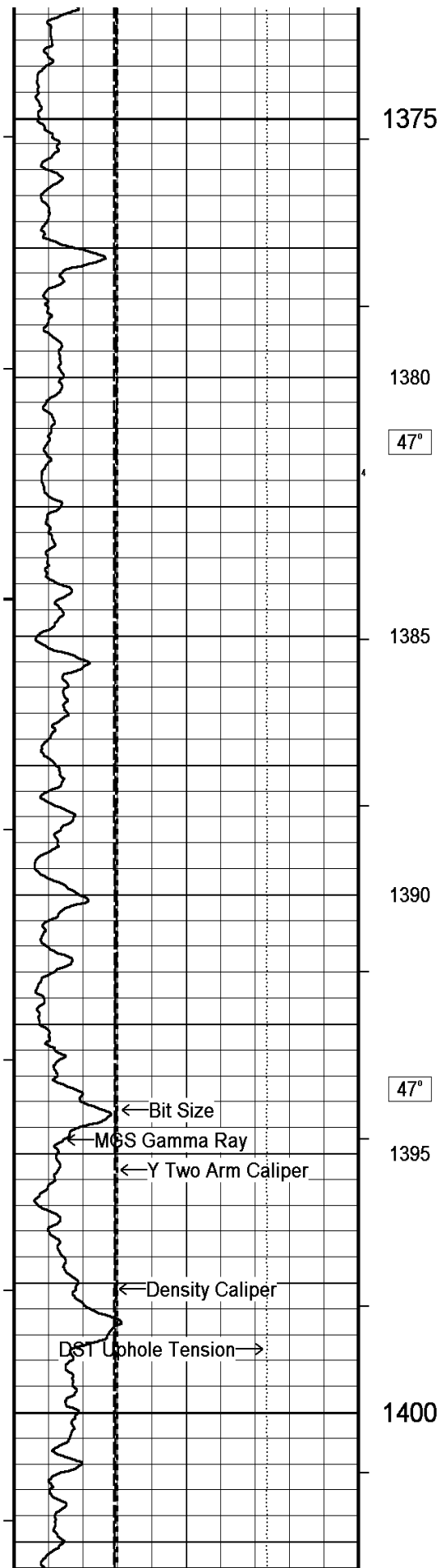
Replay
Scale
1:240

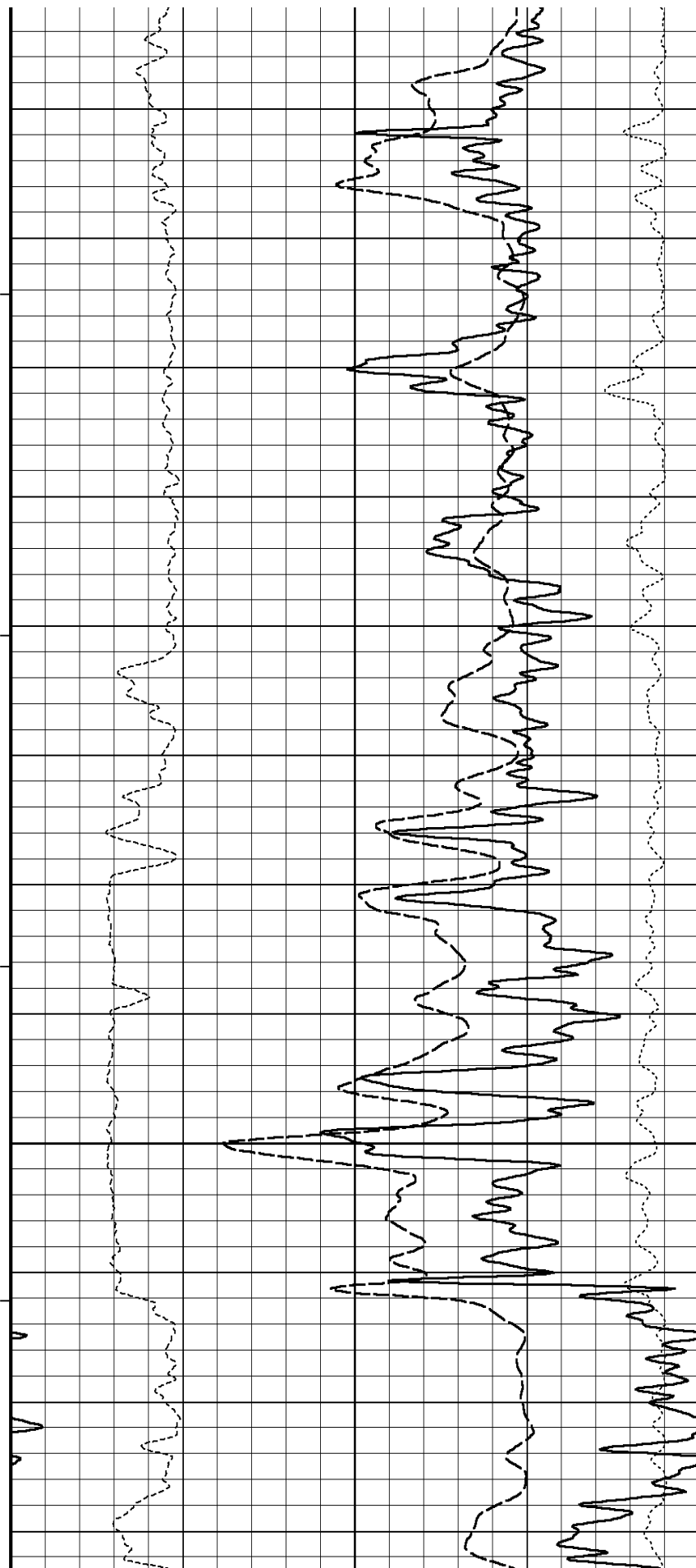
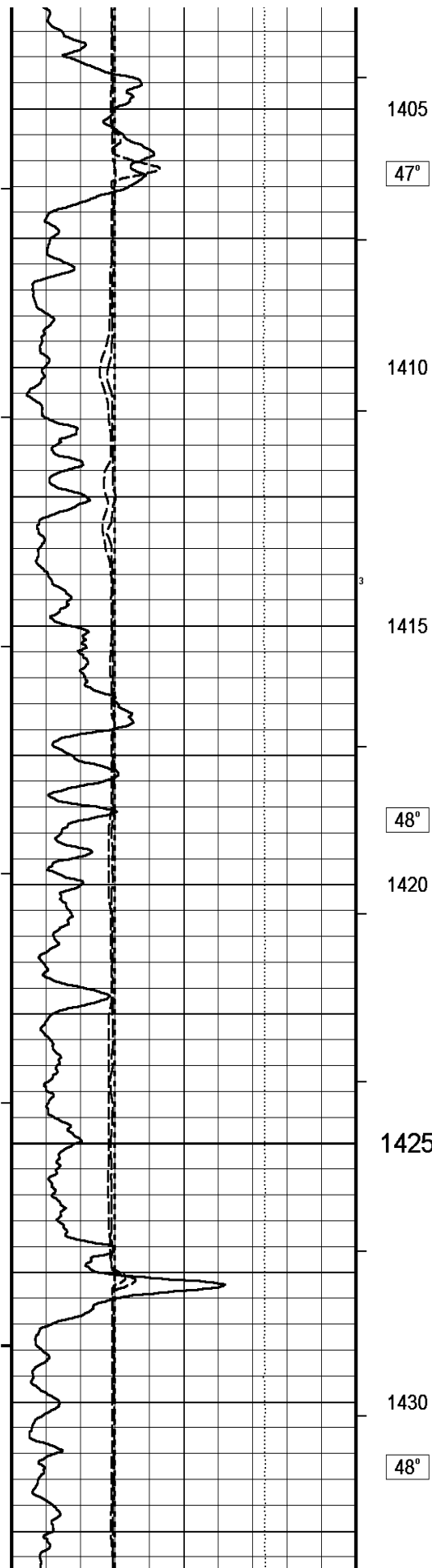
Depth Based Data - Maximum Sampling Increment 2.5cmPlotted on 07-NOV-2007 11:19
Filename: C:\Temp\Weatherford PreView\0\L-29 hires.dtaRecorded on 06-FEB-2007 04:23
System Versions: Logged with 7.01.0195 Processed with 7.02.0251 Plotted with 8.01.0091

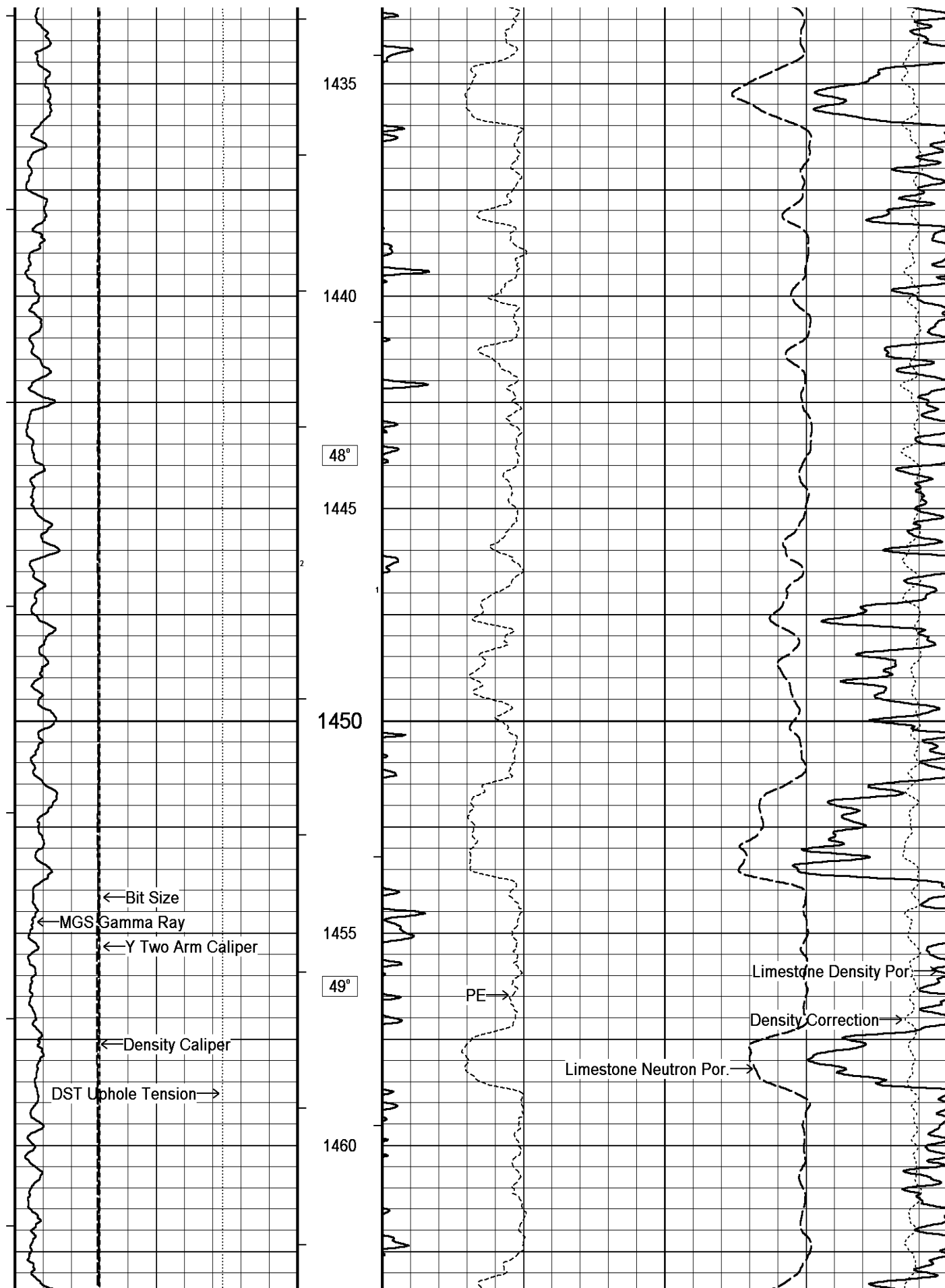
↑HIGH RESOLUTION 1:120↑

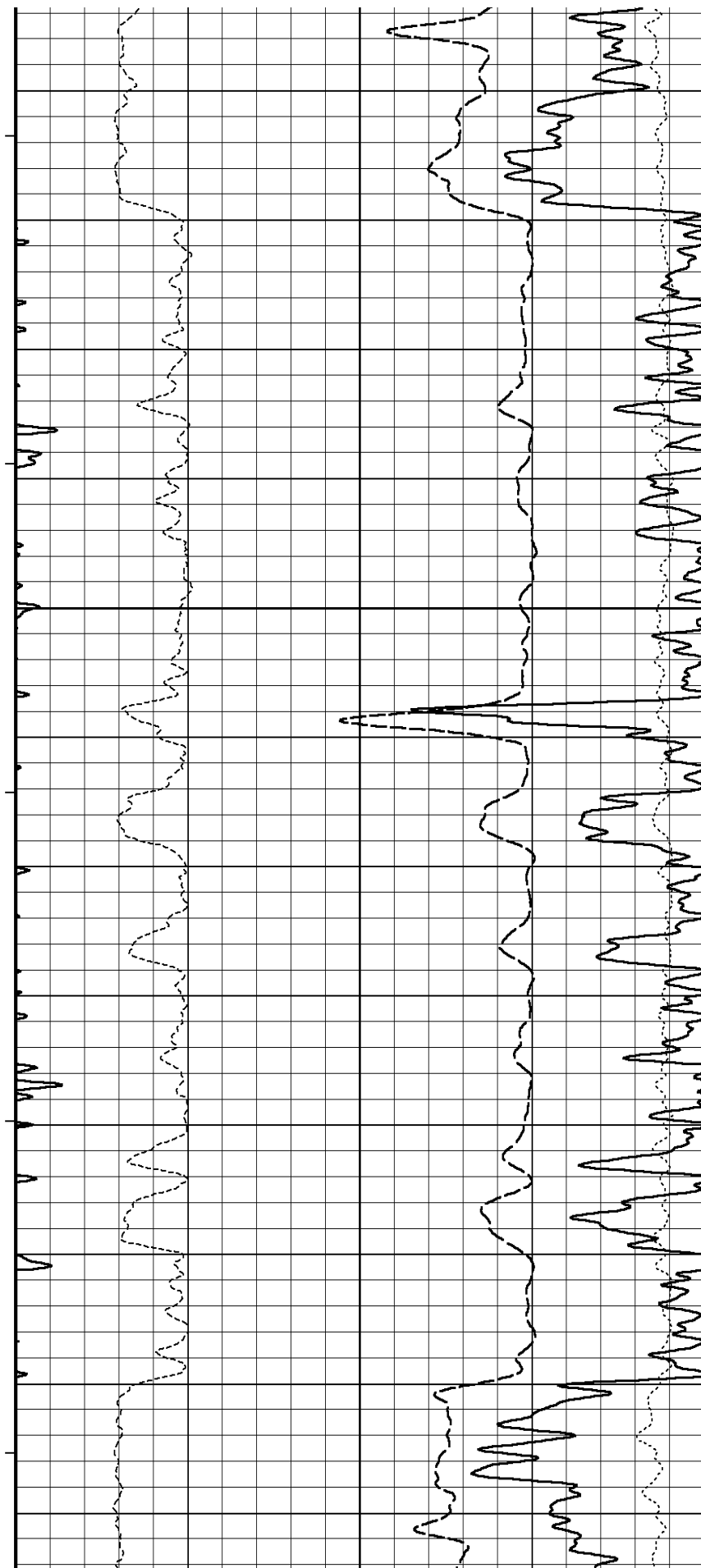
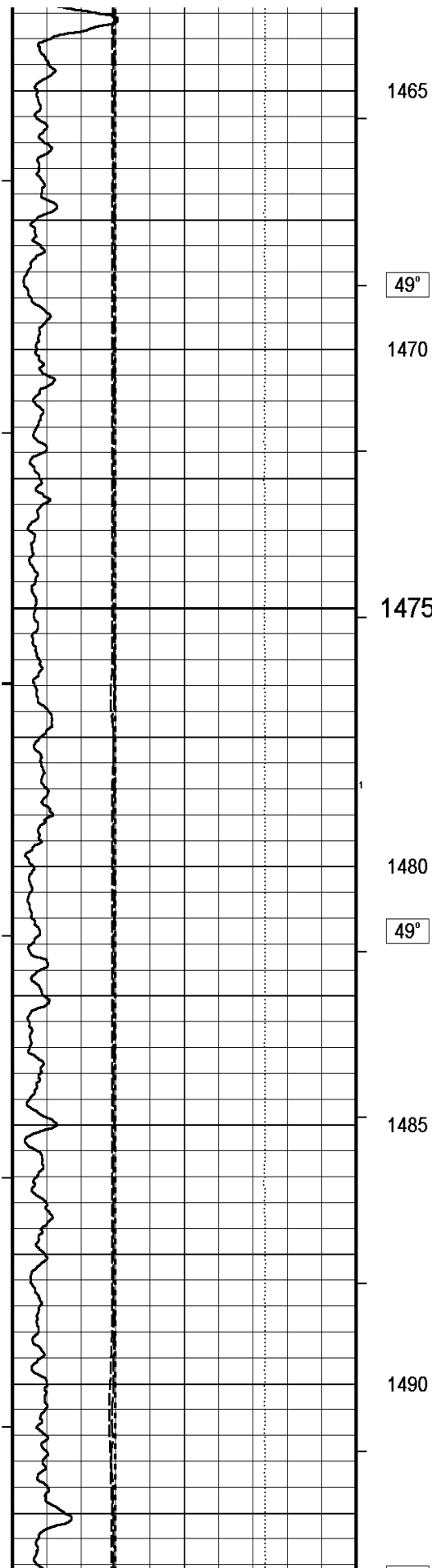


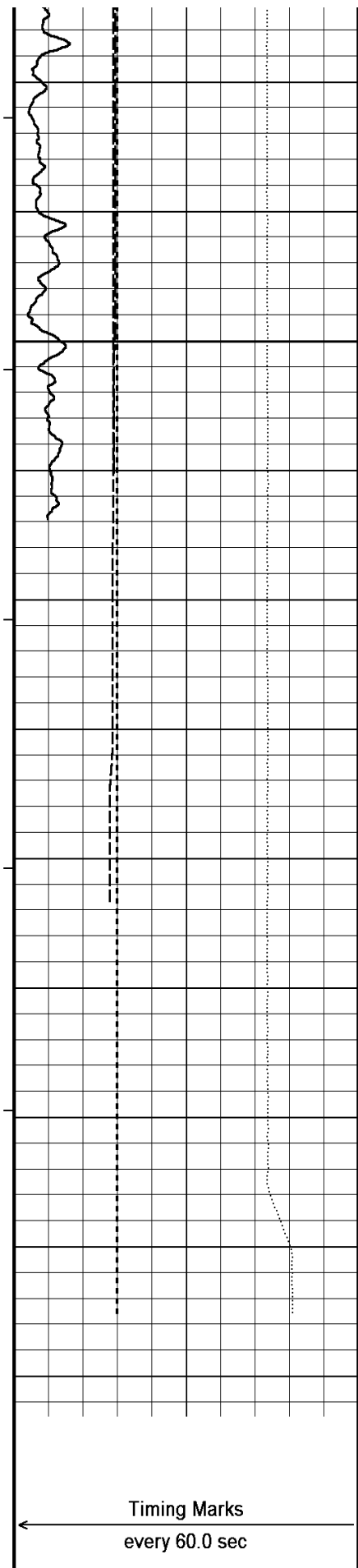












48°

1495

1500

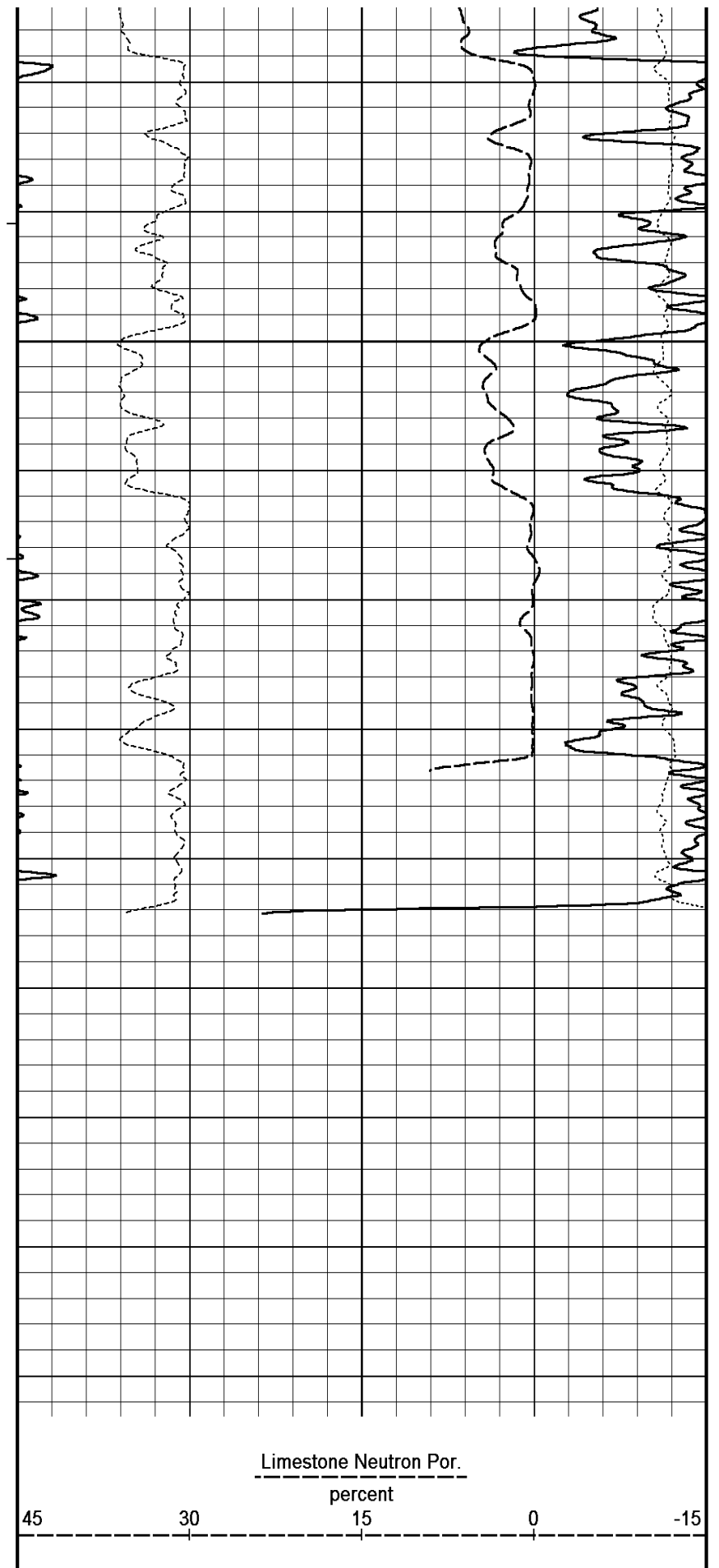
1505

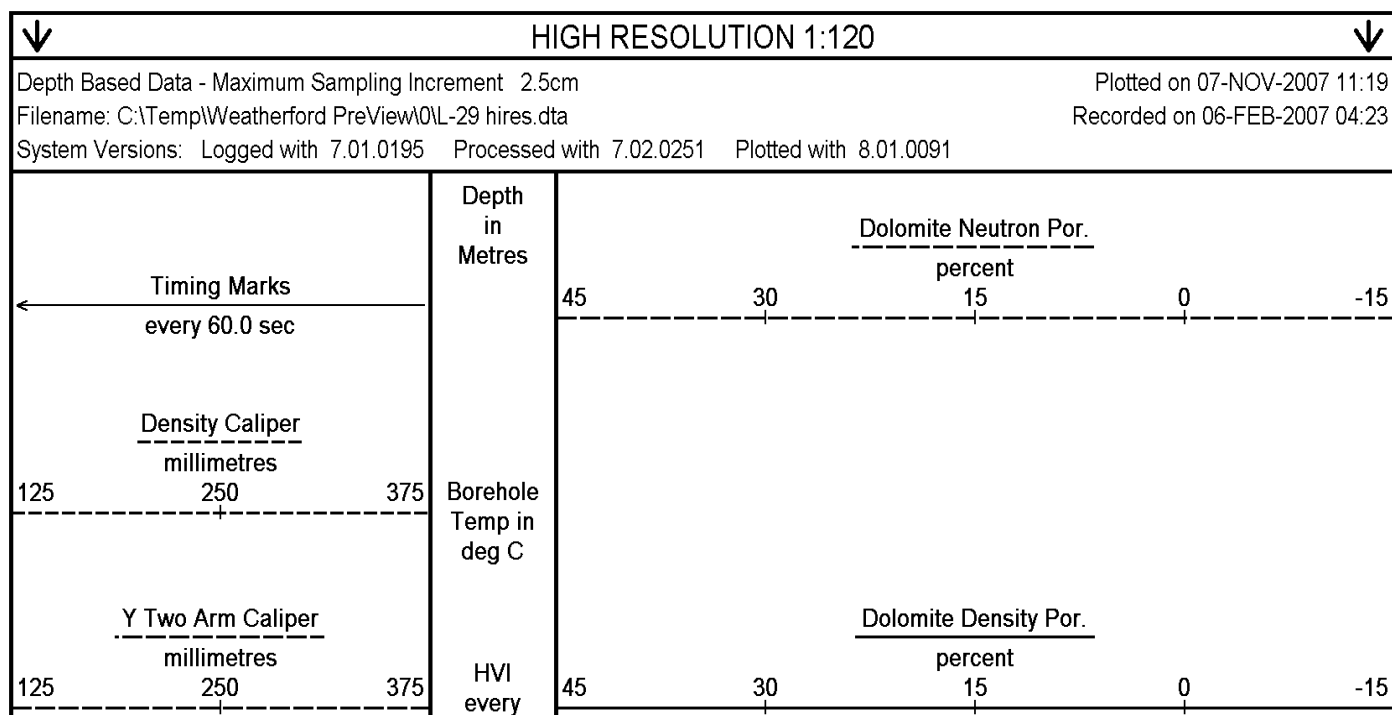
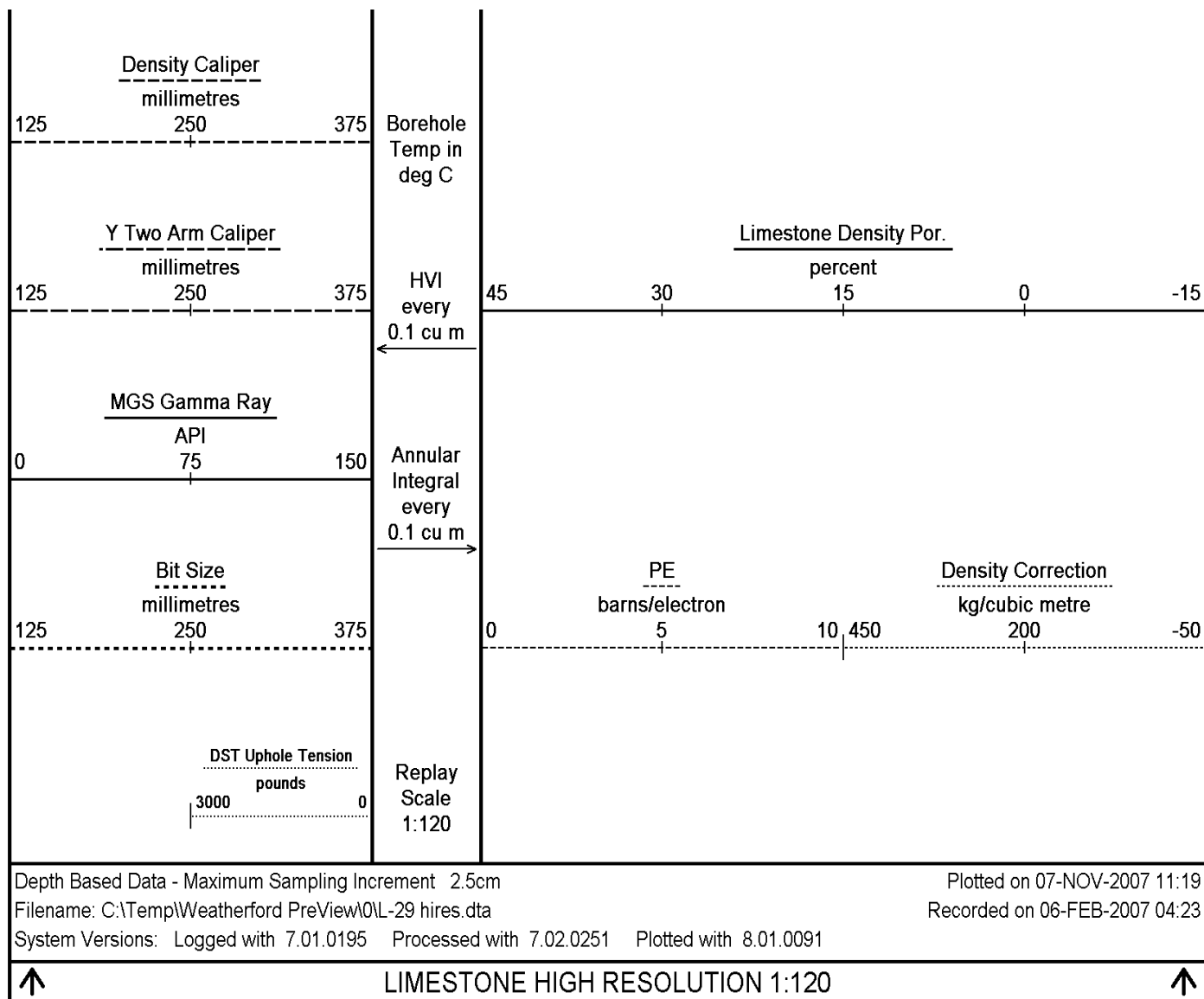
1510

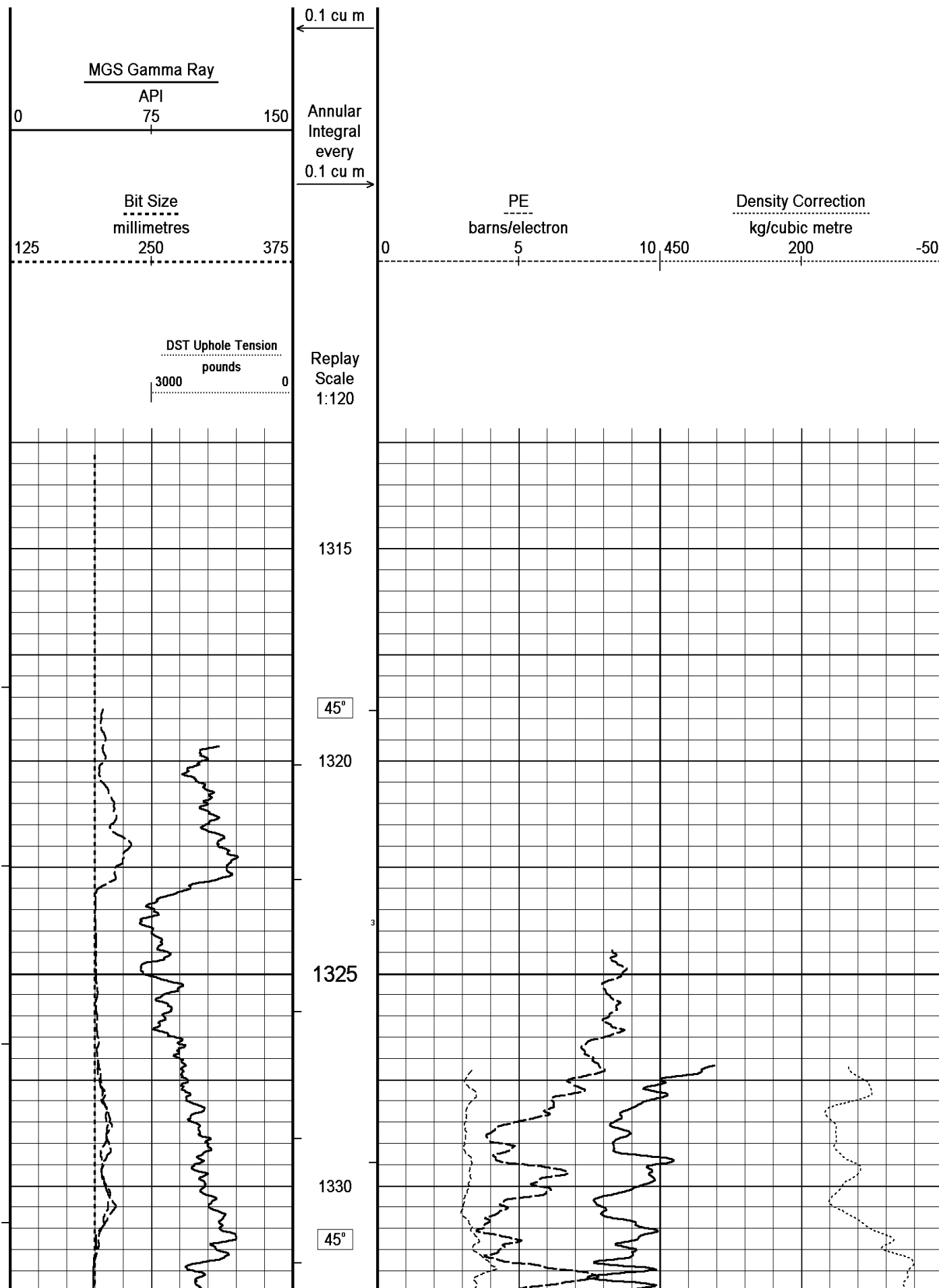
1515

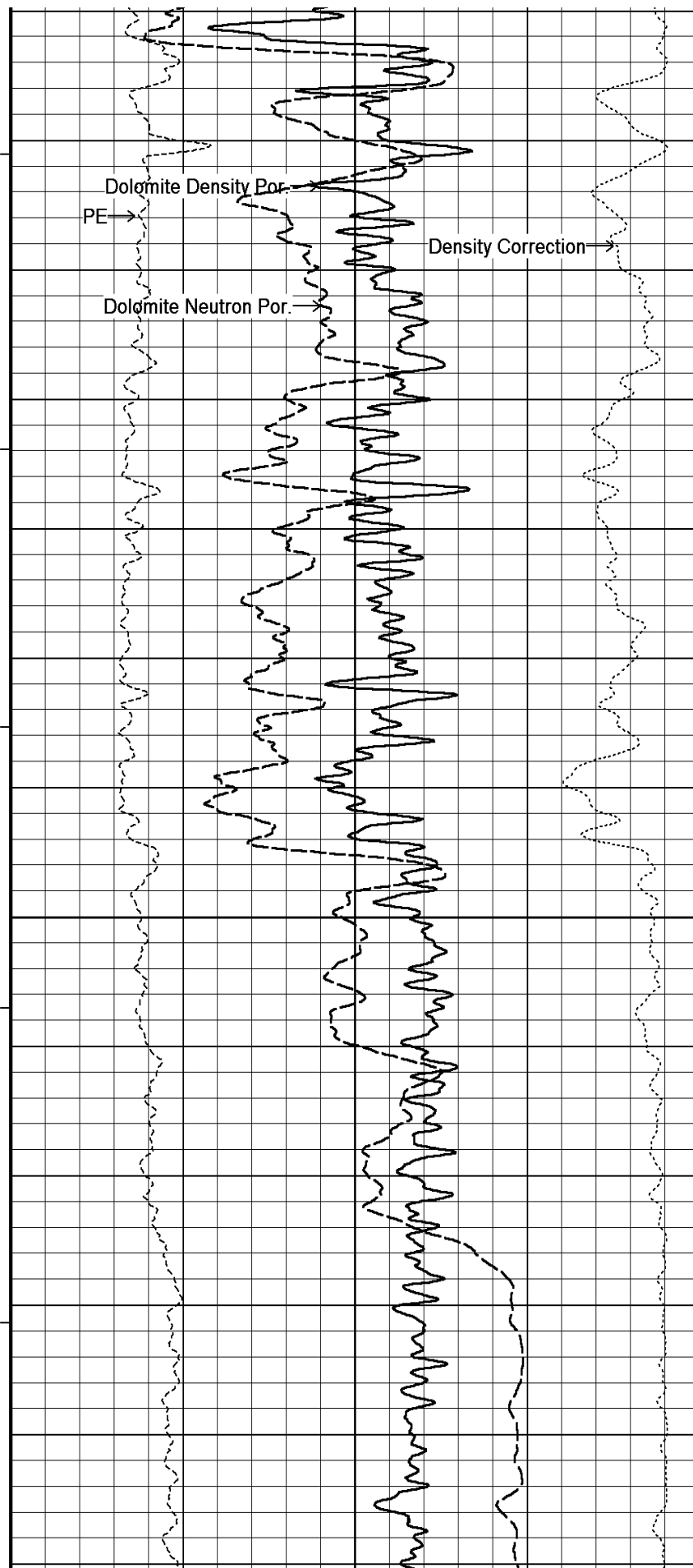
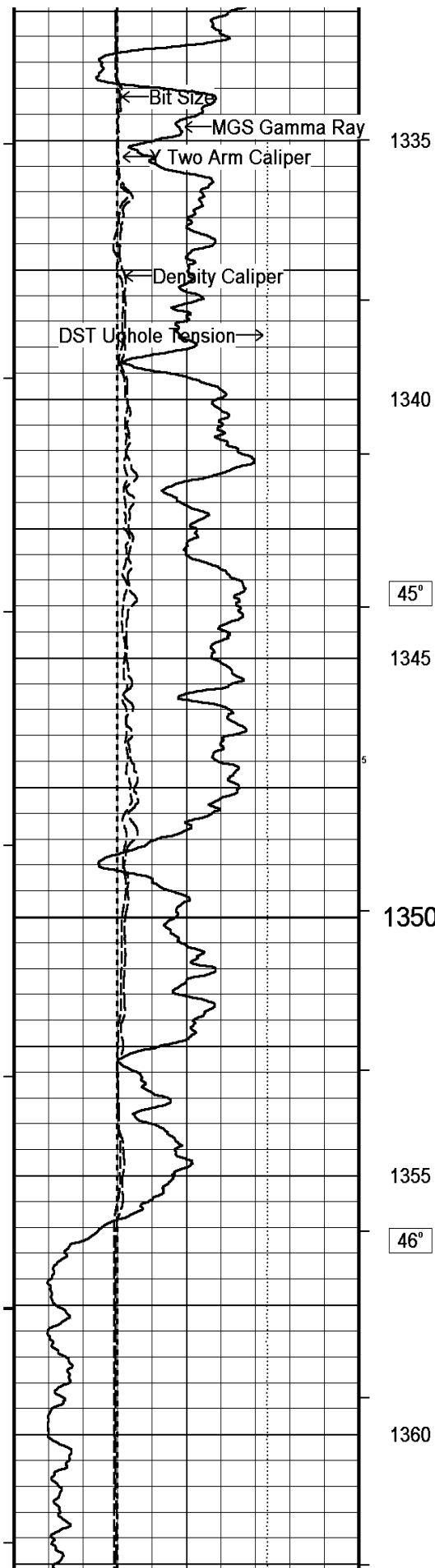
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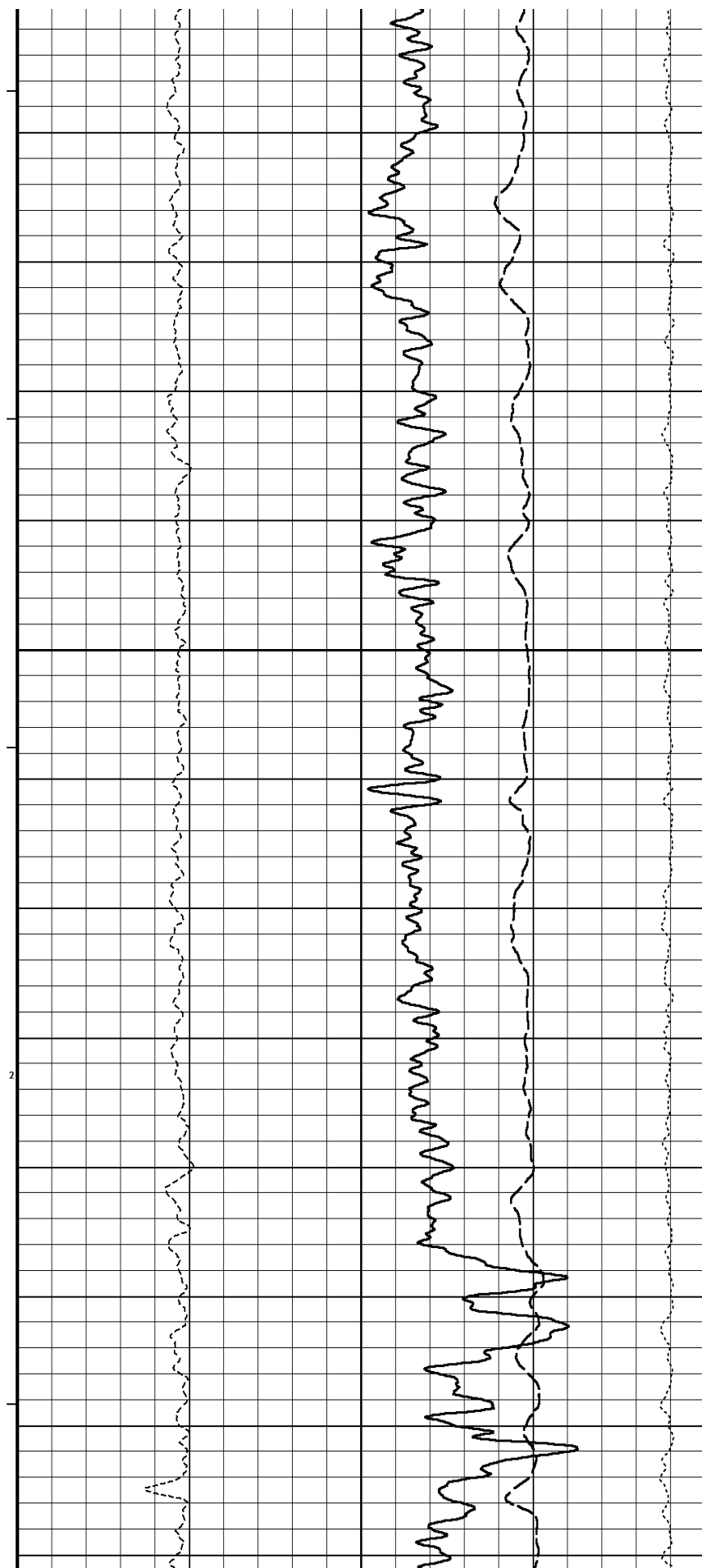
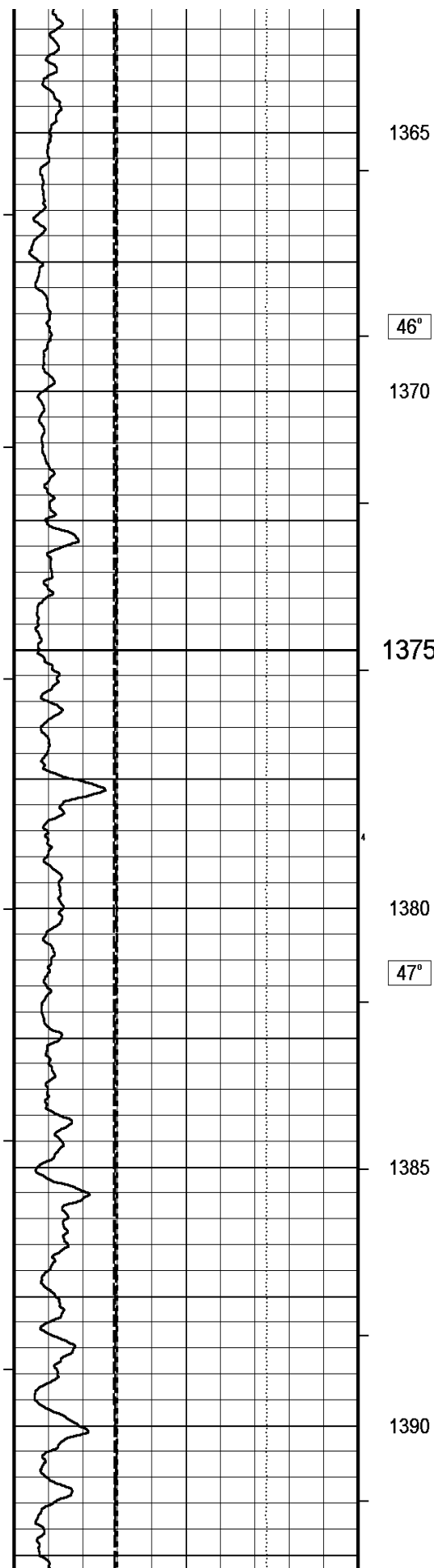
Depth
in
Metres

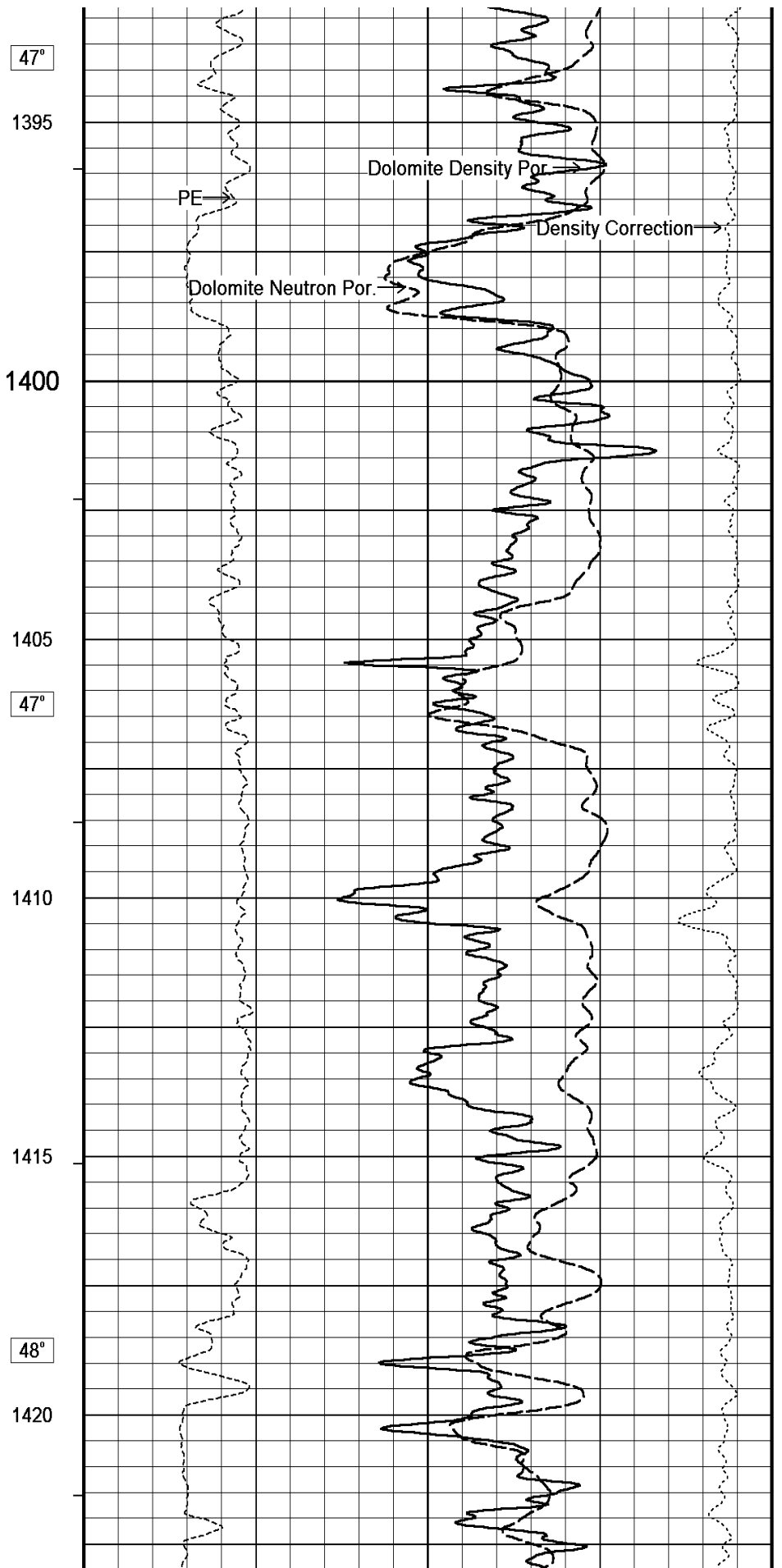
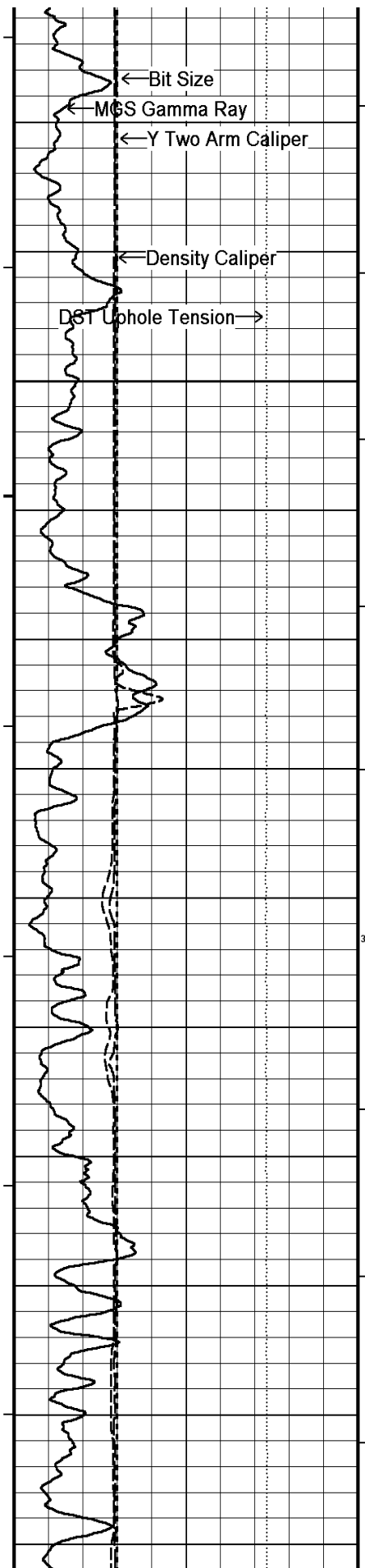


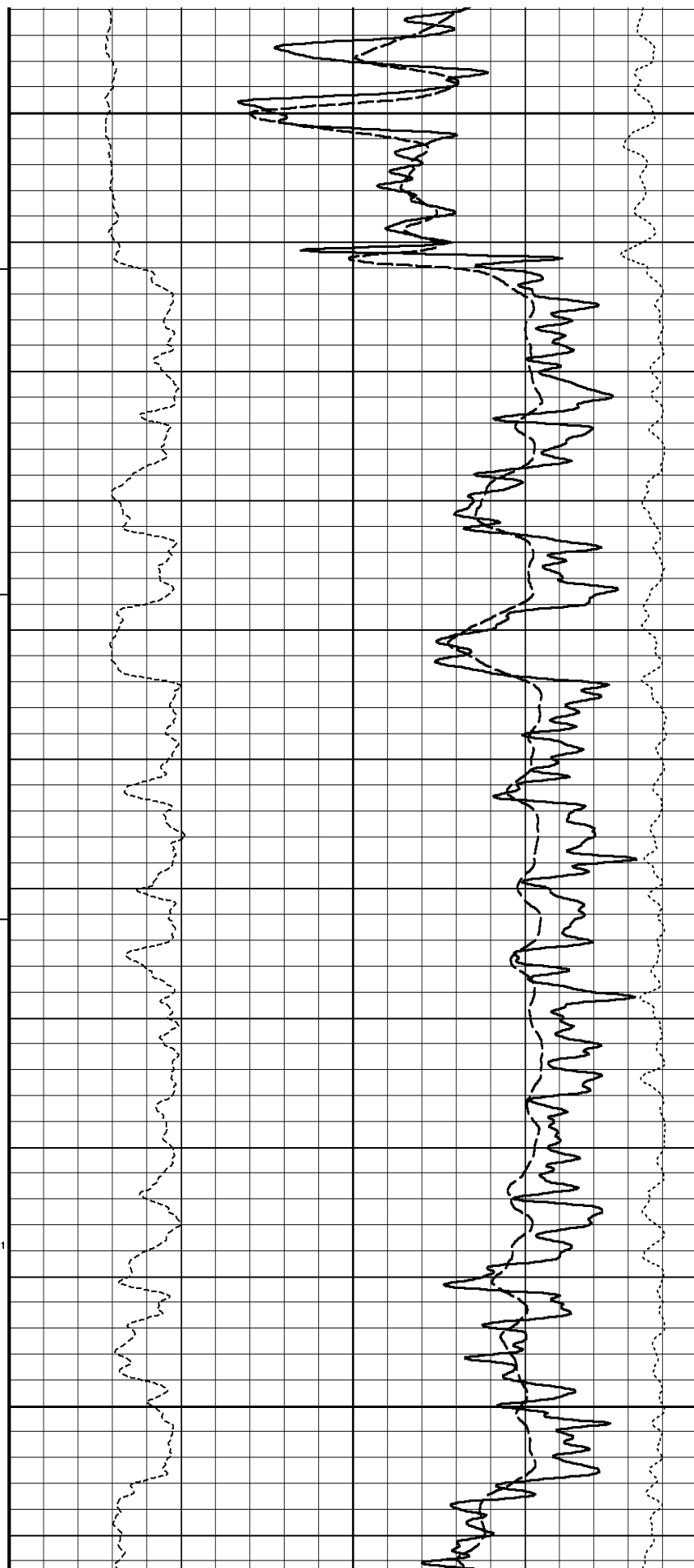
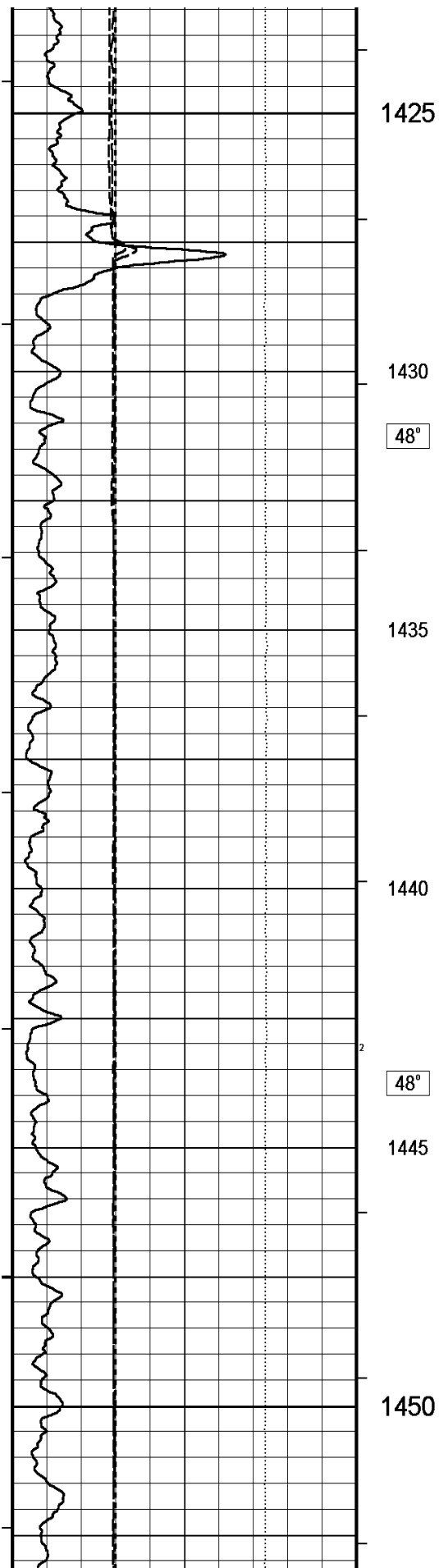


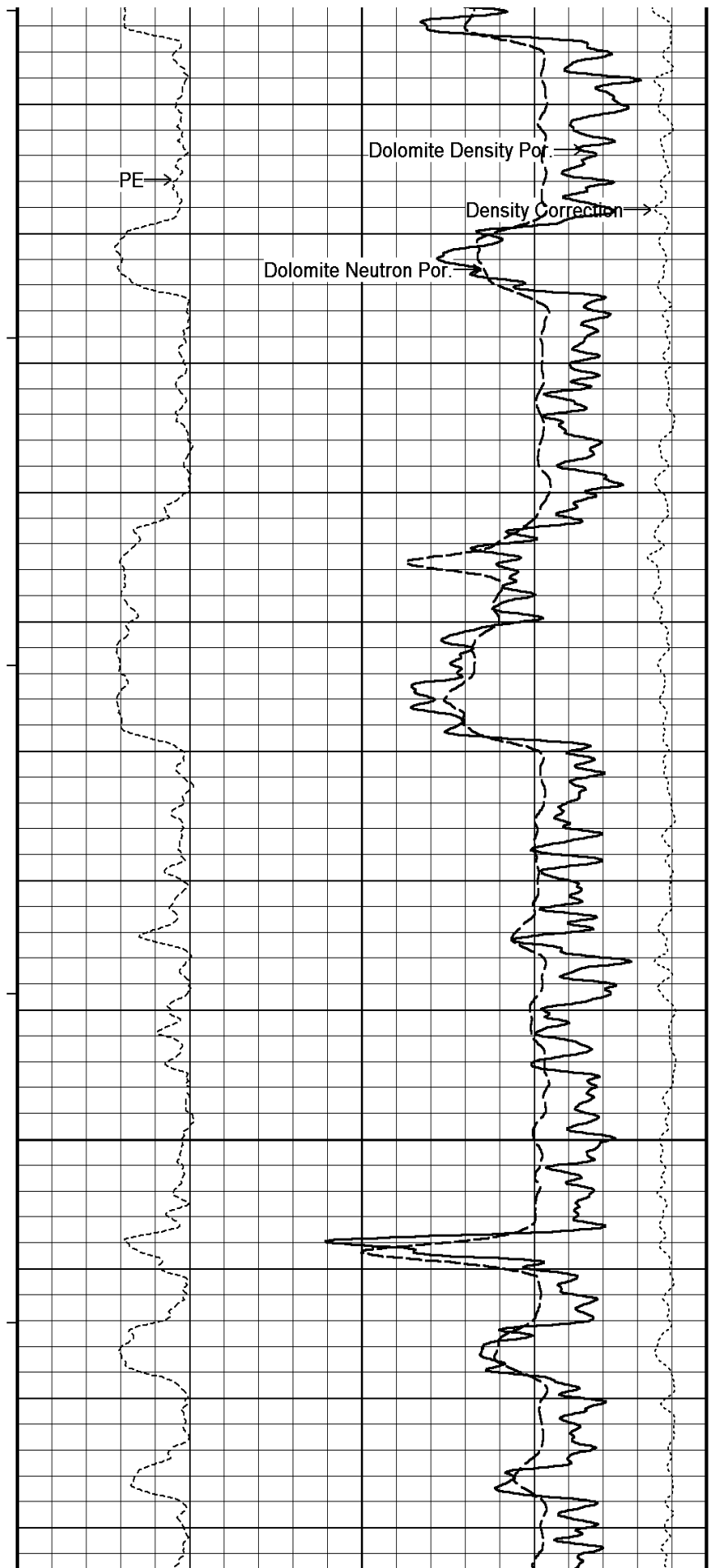
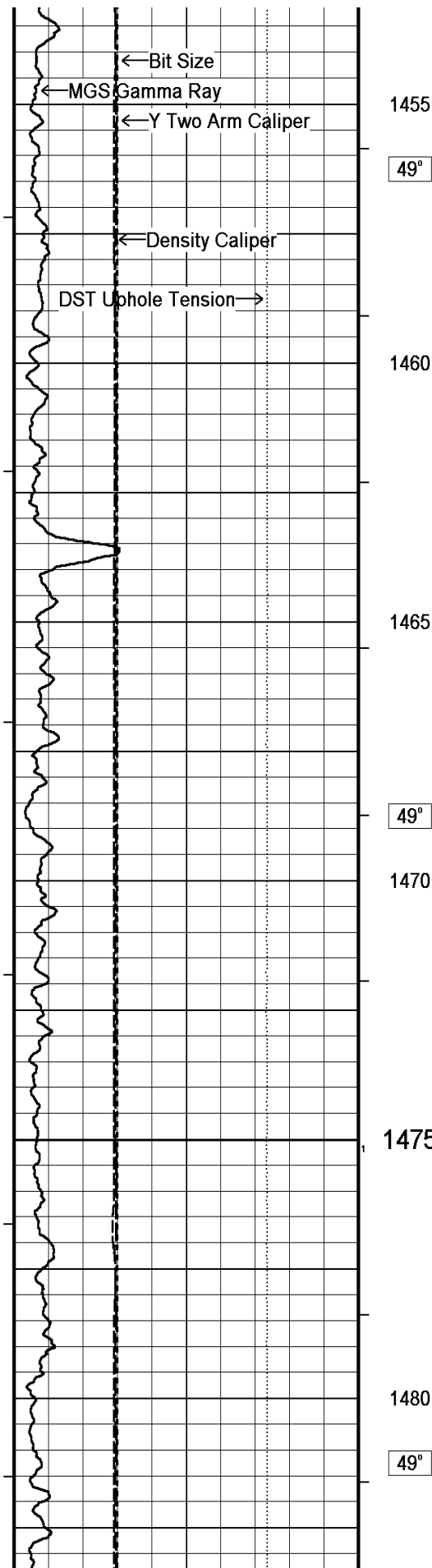


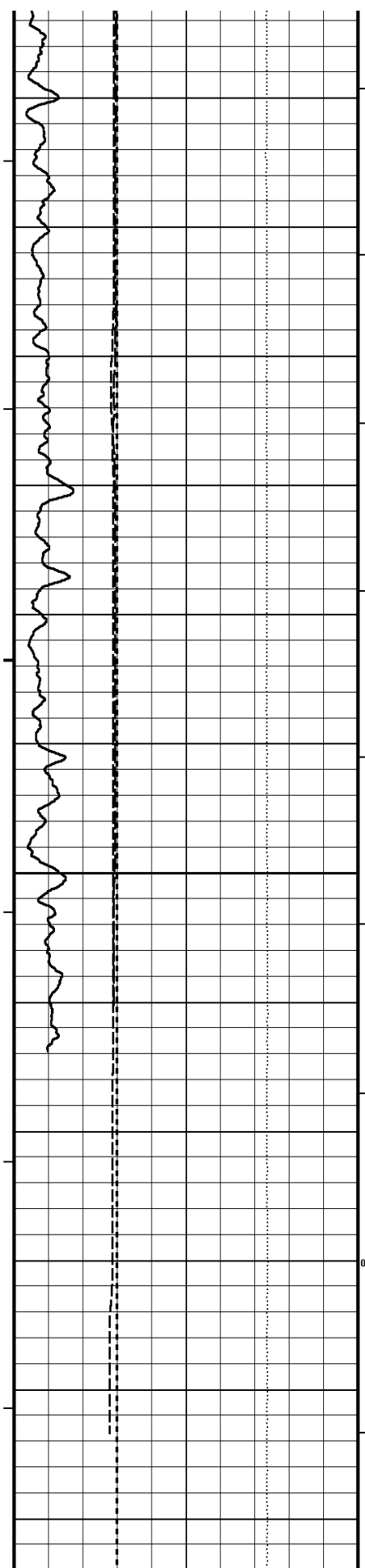












1485

1490

48°

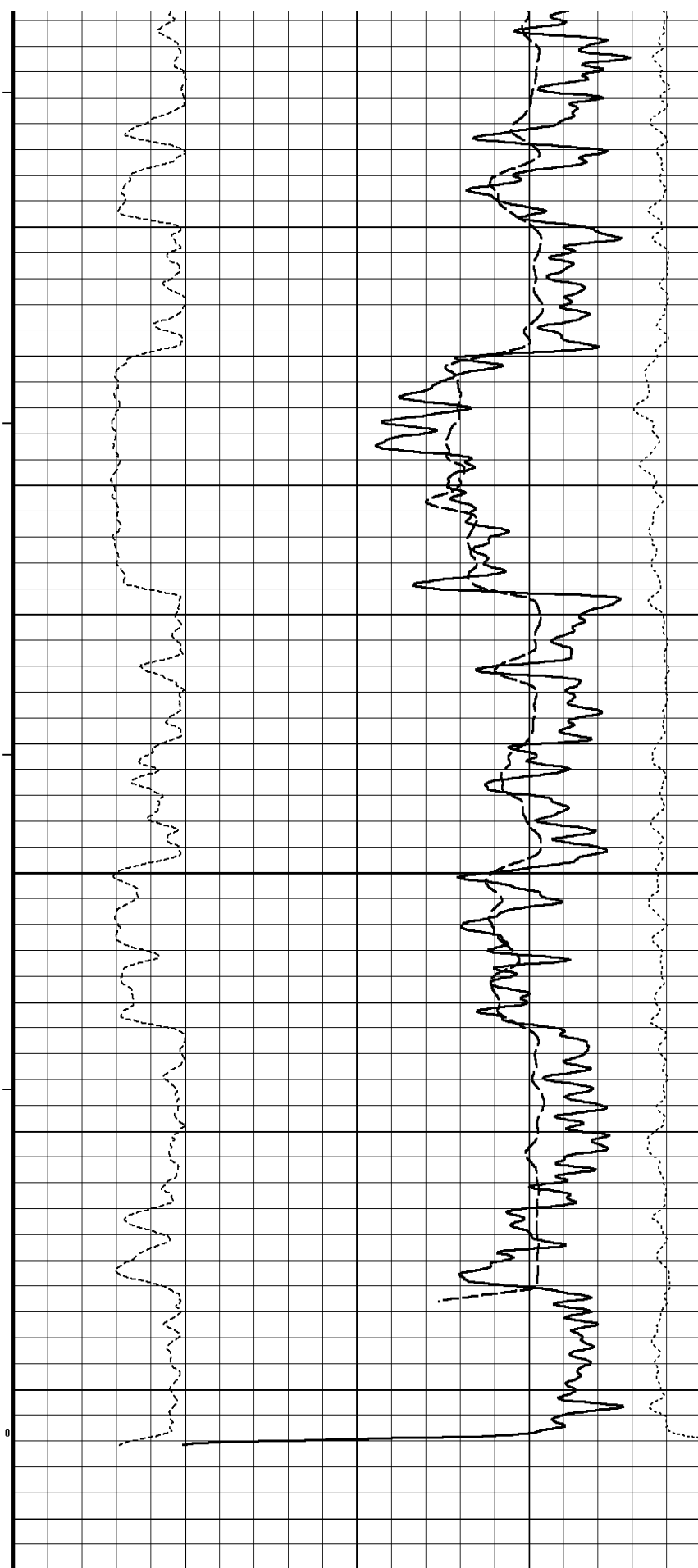
1495

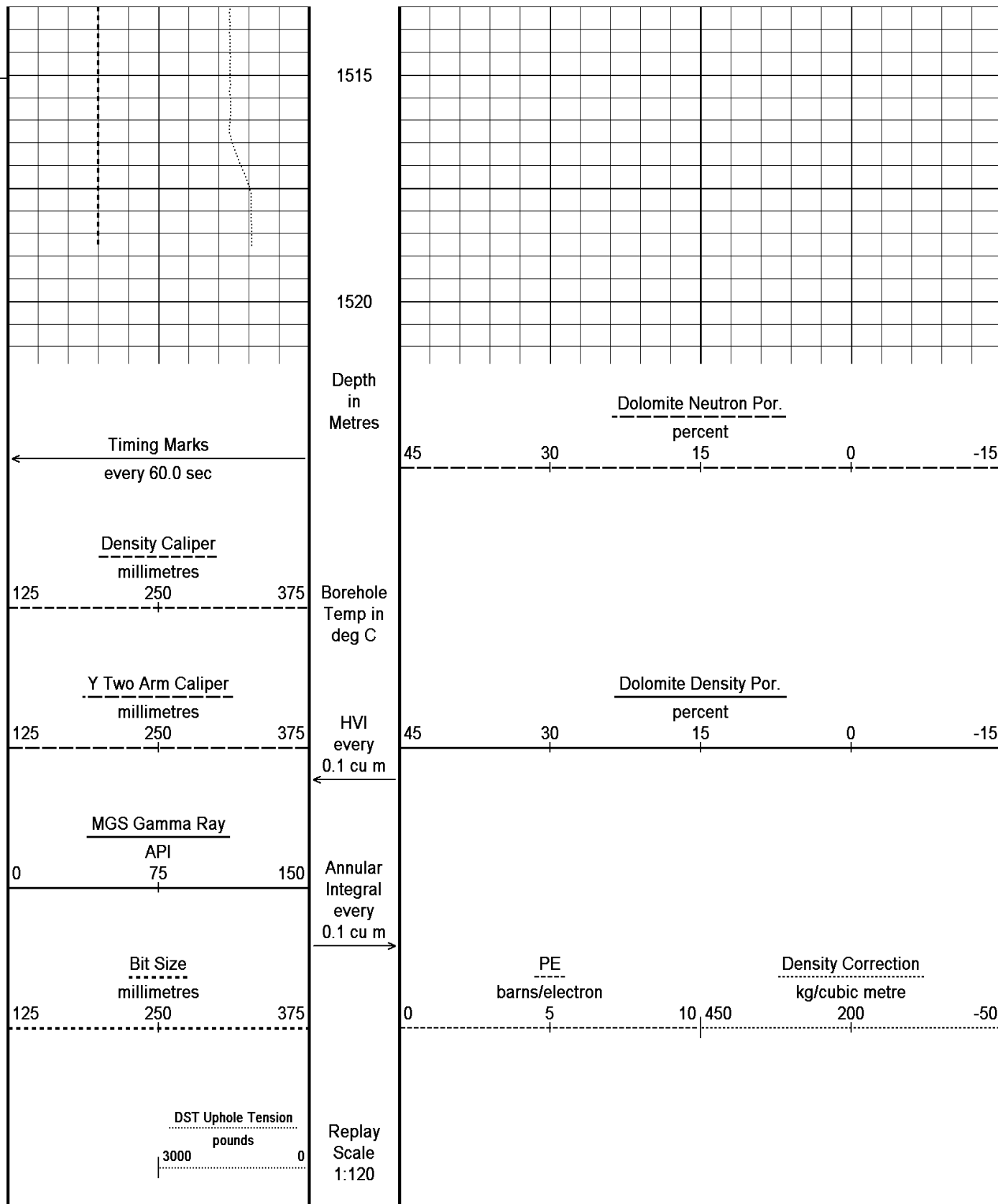
1500

1505

0

1510





Depth Based Data - Maximum Sampling Increment 2.5cm

Filename: C:\Temp\Weatherford PreView\0\L-29 hires.dta

System Versions: Logged with 7.01.0195 Processed with 7.02.0251 Plotted with 8.01.0091

Plotted on 07-NOV-2007 11:19

Recorded on 06-FEB-2007 04:23



HIGH RESOLUTION 1:120



BEFORE SURVEY CALIBRATION

C:\Temp\Weatherford PreView\0\L-29 rpt.dta

General Constants All 000

Last Edited on 6-FEB-2007,03:32

General Parameters

Mud Resistivity	0.690	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	Y Two Arm Caliper	
Annular Volume Diameter	139.700	mm
Caliper for Differential Caliper	Density Caliper	

Rwa Parameters

Porosity used	Base Density Porosity
Resistivity used	Deep Induction
RWA Constant A	0.610
RWA Constant M	2.150

Gamma Calibration MCG 159

Field Calibration on 5-FEB-2007,23:16

	Measured	Calibrated (API)
Background	50	34
Calibrator (Gross)	1224	828
Calibrator (Net)	1174	794

Gamma Constants MCG 159

Last Edited on 6-FEB-2007,02:31

Gamma Calibrator Number	GRCC075	
Mud Density	1135.00	kg/m3
Caliper Source for Processing	Density Caliper	
Tool Position	Centred	
Concentration of KCl	0.00	kppm

SP Calibration MCG 159

Field Calibration on 25-JAN-2007 17:35

	Measured	Calibrated (mV)
Reference 1	99.9	99.5
Reference 2	-99.3	-99.5

High Resolution Temperature Calibration MCG 159

Field Calibration on 28-NOV-2006,15:40

	Measured	Calibrated(Deg C)
Lower	10.00	10.00
Upper	50.00	50.00

High Resolution Temperature Constants MCG 159

Last Edited on 28-NOV-2006,15:40

Pre-filter Length	11
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FE Calibration MFE 017

Base Calibration on 25-JAN-2007 17:46

Field Check on 1-FEB-2007 08:10

Base Calibration

	Measured	Calibrated (ohm-m)
Reference 1	0.0	0.0
Reference 2	971.0	126.8
Base Check		279.5
Field Check		280.6

FF Constants MFF 017

Last Edited on 29-JAN-2007 21:47

Caliper Source for FE correction	Density Caliper			
Rm Source for FE correction	Temperature Corr			
Temp. for Rm Corr.	MCG External Temperature			
Stand-off	Centred	millimetres		
Caliper Calibration MTC 006		Base Calibration on 25-JAN-2007,18:14 Field Calibration on 6-FEB-2007,03:31		
Base Calibration				
Reading No	Measured	Calibrator Size (mm)		
1	14734	110.00		
2	17539	162.00		
3	20248	212.00		
4	22990	262.00		
5	25897	311.00		
6	N/A	N/A		
Field Calibration				
	Measured Caliper (mm)	Actual Caliper (mm)		
	208.40	205.70		
Gamma Calibration MGS 010		Field Calibration on 5-FEB-2007,23:15		
	Measured	Calibrated (API)		
Background	48	31		
Calibrator (Gross)	1256	825		
Calibrator (Net)	1208	794		
Gamma Constants MGS 010		Last Edited on 6-FEB-2007,02:31		
Gamma Calibrator Number	grcc075			
Mud Density	1135.00	kg/m3		
Caliper Source for Processing	Density Caliper			
Tool Position	Centred			
Concentration of KCl	0.00	kppm		
SP Calibration MGS 010		Field Calibration on 8-NOV-2006,19:47		
	Measured	Calibrated (mV)		
Reference 1	0.0	0.0		
Reference 2	10.0	10.0		
High Resolution Temperature Calibration MGS 010		Field Calibration on 28-NOV-2006,15:40		
	Measured	Calibrated(Deg C)		
Lower	10.00	10.00		
Upper	50.00	50.00		
High Resolution Temperature Constants MGS 010				
Pre-filter Length	11			
Micro Normal and Micro Inverse Calibration MML 015		Base Calibration on 25-JAN-2007,17:08 Field Check on 31-JAN-2007 18:48		
Base Calibration				
Channel	Resistor 1	Resistor 2	Resistor 1	Resistor 2
Micro Normal	9.9	48.5	5.1	25.6
Micro Inverse	9.9	48.7	3.4	16.9
Channel	Base Check (ohm-m)		Field Check (ohm-m)	
Micro Normal	79.8		0.0	
Micro Inverse	52.6		0.0	
Micro Normal and Micro Inverse Constants MML 015		Last Edited on 5-FEB-2007,23:14		
Micro Normal K Factor	0.5110			

Micro Inverse K Factor	0.3380			
Standoff Offset	N/A	millimetres		
Caliper Calibration MML 015			Base Calibration on 25-JAN-2007,18:15 Field Calibration on 6-FEB-2007,03:32	
Base Calibration				
Reading No	Measured	Calibrator Size (mm)		
1	13860	162.00		
2	17089	212.00		
3	20617	262.00		
4	24375	311.00		
5	27976	355.00		
6	N/A	N/A		
Field Calibration				
	Measured Caliper (mm)	Actual Caliper (mm)		
	211.00	205.70		
Neutron Calibration MDN 144			Base Calibration on 25-JAN-2007 18:05 Field Check on 5-FEB-2007 23:56	
Base Calibration				
	Measured		Calibrated (cps)	
	Near	Far	Near	Far
	2967	93	3714	110
Ratio	31.886		33.764	
Field Calibrator at Base				
			Calibrated (cps)	
			2065	2999
Ratio	0.689			
Field Check				
			Calibrated (cps)	
			2075	3068
Ratio	0.676			
Neutron Constants MDN 144			Last Edited on 18-JAN-2007,02:18	
Neutron Source Id	16145b			
Neutron Jig Number				
Epithermal Neutron	No			
Caliper Source for Processing	Density Caliper			
Stand-off	0.00	mm		
Mud Density	1000.00	kg/m3		
Limestone Sigma	7.10	cu		
Sandstone Sigma	4.26	cu		
Dolomite Sigma	4.70	cu		
Formation Pressure Source	Constant Value			
Formation Pressure	0.00	kPa		
Temperature Source	MCG External Temperature			
Temperature	20.00	degrees C		
Mud Salinity	0.00	kppm		
Formation Fluid Salinity Source	Constant Value			
Formation Fluid Salinity	0.00	kppm		
Barite Mud Correction	Not Applied			
Photo Density Calibration MPD 036			Base Calibration on 23-JAN-2007 04:10 Field Check on 5-FEB-2007 23:46	
Density Calibration				
Base Calibration	Measured		Calibrated (sdu)	
	Near	Far	Near	Far
Reference 1	52802	28585	60352	31615
Reference 2	21780	2767	25043	2540
Field Check at Base				
	1184.8	1494.9		

Field Check

1184.7 1500.0

PE Calibration

Base Calibration	WS	Measured WH	Ratio	Calibrated Ratio
Background	213	1052		
Reference 1	22151	52610	0.425	0.400
Reference 2	5909	21638	0.277	0.272

Field Check at Base

213.1 1051.7

Field Check

211.7 1051.4

Density Constants MPD 036

Last Edited on 6-FEB-2007,02:32

Density Source Id	2834GW
Nylon Calibrator Number	608
Aluminium/Fe Calibrator Number	608
Density Shoe Profile	4 inch
Caliper Source for Processing	Density Caliper
PE Correction to Density	Not Applied
Mud Density	1135.00 kg/m3
Mud Density Z/A Correction	1.11
Mud Filtrate Density	1000.00 kg/m3
Dry Hole Mud Filtrate Density	1000.00 kg/m3
DNCT	0.00 kg/m3
CRCT	0.00 kg/m3
Density Z/A Correction	0
Matrix Density (kg/m3)	Depth (m)
2710.00	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	0.00

Caliper Calibration MPD 036

Base Calibration on 23-JAN-2007 04:20

Field Calibration on 6-FEB-2007,03:32

Base Calibration		
Reading No	Measured	Calibrator Size (mm)
1	18576	110.00
2	28032	162.00
3	37841	212.00
4	48080	262.00
5	57920	311.00
6	N/A	N/A
Field Calibration		
	Measured Caliper (mm)	Actual Caliper (mm)
	206.00	205.70

Sonic Constants MSS 060

Last Edited on 6-FEB-2007,03:32

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		
Hunt-Raymer Constant	0.00	0		
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		0.0000	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	

Induction Calibration MAI 072			Base Calibration on 25-JAN-2007,18:16	
			Field Check on 6-FEB-2007 03:36	
Base Calibration				
Test Loop Calibration		Measured	Calibrated (mmho/m)	
Channel	Low	High	Low	High
1	13.9	459.6	9.3	966.2
2	5.3	373.2	7.6	821.4
3	2.9	254.1	5.2	566.0
4	1.3	130.4	2.6	279.2
Array Temperature		18.5	Deg C	
Channel		Base Check (mmho/m)		Field Check (mmho/m)
	Low	High	Low	High
1	18.0	3925.2	21.4	3925.8
2	31.0	3598.6	33.0	3598.2
3	29.0	3101.3	30.5	3101.0
4	20.3	2105.9	21.3	2105.5
Deep	18.4	2019.9	19.5	2019.8
Medium	40.9	4089.6	42.7	4089.1
Shallow	45.6	5324.4	48.5	5323.6
Array Temperature		18.5	32.0	Deg C

Induction Constants MAI 072		Last Edited on 6-FEB-2007,03:33	
Induction Model		VECTAB	

Induction Model		VECTRA	
Caliper for Borehole Corr.		Density Caliper	
Hole Size for Borehole Correction		N/A	millimetres
Stand-off		25.40	millimetres
Number of Fins on Stand-off		5.0000	
Stand-off Fin Width		25.4000	millimetres
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 072			
	Measured	Calibrated(Deg C)	Field Calibration on 11-NOV-2006,04:00
Lower	1.00	1.00	
Upper	10.00	10.00	
High Resolution Temperature Constants MAI 072			
Pre-filter Length		11	

DOWNHOLE EQUIPMENT			
C:\Temp\Weatherford PreView\0\L-29 rpt.dta			
Compact Gamma MCG 159 Length: 2.65 m	Weight: 63.9 lb		
		20.78 m	GRGC - Gamma Ray
		19.90 m	CGXT - MCG External Temperature
Compact Focussed Electric MFE 17 Length: 1.84 m	Weight: 48.5 lb		
		18.79 m	FEFE - Shallow FE
Compact Two Arm Caliper		16.22 m	CLYC - X Two Arm Caliper

Compact Two Arm Caliper
MTC 6 Length: 2.17 m

Weight: 61.7 lb

Compact Short Gamma
MGS 10 Length: 1.04 m

Weight: 24.3 lb

Compact InterSonde Crank
ISC 159 Length: 0.70 m

Weight: 24.3 lb

Compact Micro-log
MML 15 Length: 2.43 m

Weight: 81.6 lb

Compact Neutron
MDN 144 Length: 1.53 m

Weight: 50.7 lb

Compact Density/Caliper
MPD 36 Length: 2.92 m

Weight: 90.4 lb

Compact Sonic
MSS 60 Length: 3.82 m

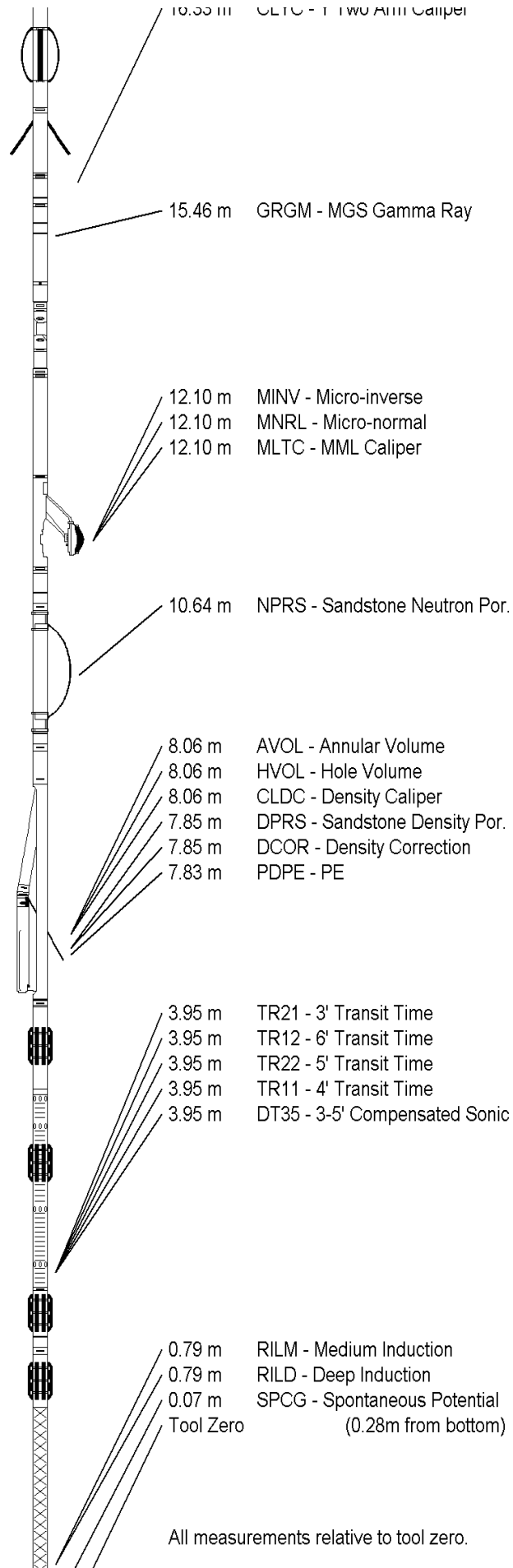
Weight: 72.8 lb

Compact Induction
MAI 72 Length: 3.29 m

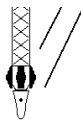
Weight: 48.5 lb

Compact Hole Finder
HFS 1 Length: 0.24 m

Weight: 2.2 lb



Total Length: 22.63 m Weight: 568.8 lb



COMPANY	PARAMOUNT RESOURCES LTD.
WELL	PARA ET AL CAMERON L-29
FIELD	CAMERON HILLS
PROVINCE/COUNTY	NORTHWEST TERRITORIES
COUNTRY/STATE	CANADA

Elevation Kelly Bushing	759.50	metres	First Reading	1508.40	metre
Elevation Drill Floor		metres	Depth Driller	1515.50	metres
Elevation Ground Level	754.10	metres	Depth Logger	1516.70	metres



Weatherford®

PHOTO DENSITY
DUAL SPACED NEUTRON