



PHOTO DENSITY
DUAL SPACED NEUTRON

COMPANY			PARAMOUNT RESOURCES LTD		
WELL			PARA ET AL CAMERON E-72		
FIELD			CAMERON HILLS		
PROVINCE/COUNTY			NORTHWEST TERRITORIES		
COUNTRY/STATE			CANADA		
LOCATION			300/E-72-60-10-117-15/00		
LSD			FIELD PRINT		
SEC	TWP	RGE	Other Services COMPENSATED SONIC ARRAY INDUCTION MICROLOG		
API Number			Permit Number 2048		
Permanent Datum GROUND LEVEL, Elevation			729.00 metres		
Log Measured From K.B., 5.40M above Permanent Datum			Elevations: KB metres DF 734.40 GL 729.00		
Drilling Measured From KELLY BUSHING					
Date	02-MAR-2007				
Run Number	1				
Depth Driller	1408.00		metres		
Depth Logger	1406.30		metres		
First Reading	1398.00		metre		
Last Reading	434.00		metre		
Casing Driller	435.00		metres		
Casing Logger	434.00		metres		
Bit Size	200.00		mm		
Hole Fluid Type	GELCHEM				
Density / Viscosity	1120.0 kg/M3		65.00 sec/L		
PH / Fluid Loss	10.50		12.00 ml/30Min		
Sample Source	FLOWLINE				
Rm @ Measured Temp	1.25 @ 25.0		ohm-m		
Rmf @ Measured Temp	0.95 @ 25.0		ohm-m		
Rmc @ Measured Temp	1.43 @ 25.0		ohm-m		
Source Rmf / Rmc	PRESS		FILTER		
Rm @ BHT	0.85 @ 46.0		ohm-m		
Time Since Circulation	7.0 HRS				
Max Recorded Temp	46.00		deg C		
Equipment Name	13131				
Equipment / Base	QUINT		GPR		
Recorded By	ADAM SMITH				
Witnessed By	BRAD POWELL				
CIRC STOP	09:45 MAR-02		Last Line		

BOREHOLE RECORD				Last Edited: 2-MAR-2007 13:39
Bit Size millimetres	Depth From metres	Depth To metres		
311.000	0.00	435.00		
200.000	435.00	1408.00		
CASING RECORD				
Type	Size millimetres	Depth From metres	Shoe Depth metres	Weight pounds/ft
SURFACE	219.100	0.00	435.00	24.00

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 MTC: ONE SIX LEAF CENTRALIZER	
5) SERVICE ORDER #: 30074211	SAP #: 4148107
# FIELD PRINTS = 1	

6) RIG: PD #220

7) HOLE AND CEMENT VOLUMES CALCULATED USING DENSITY AND 2-ARM CALIPERS :

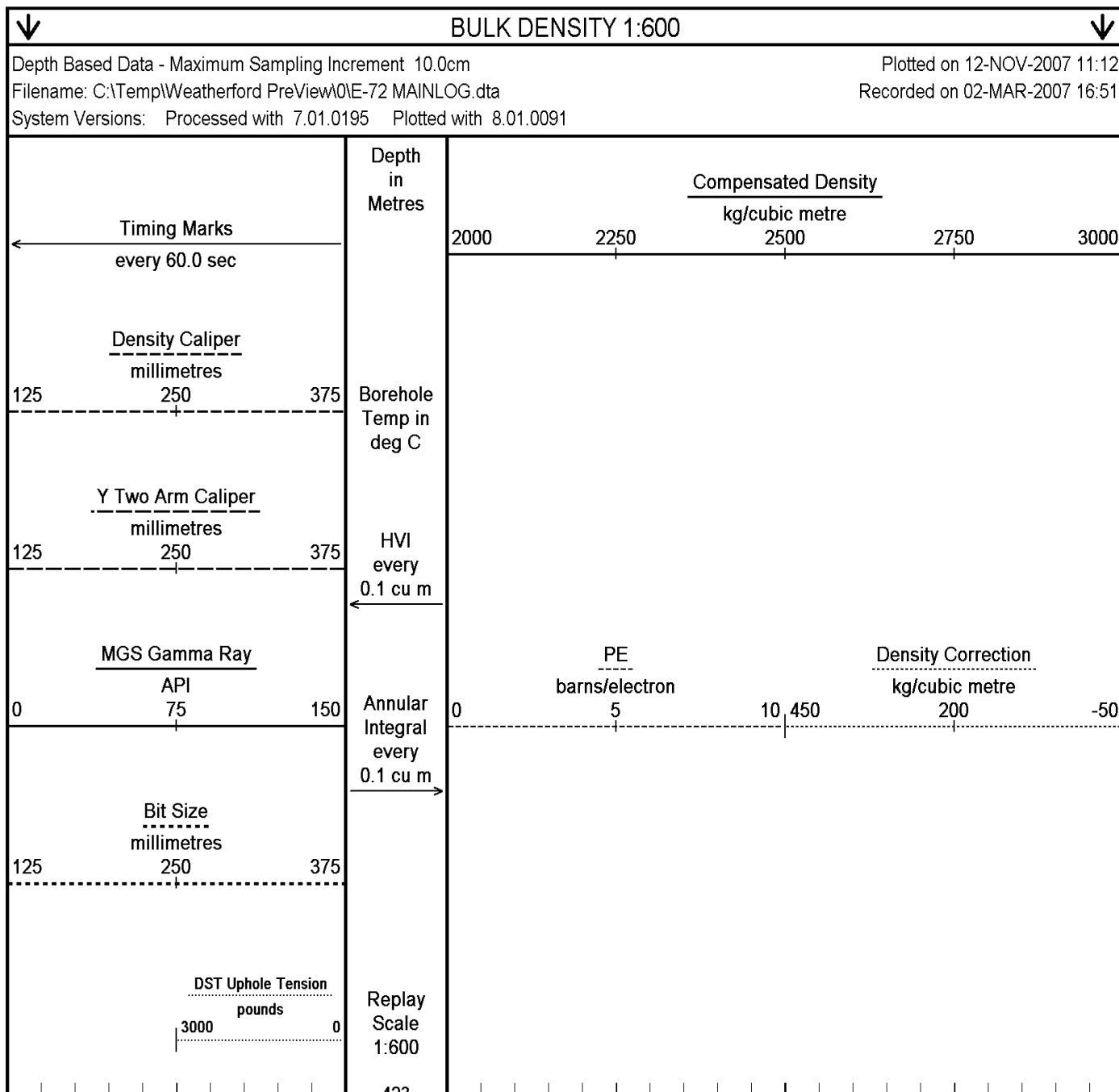
OPEN HOLE VOLUME = 36.8 CU.M.

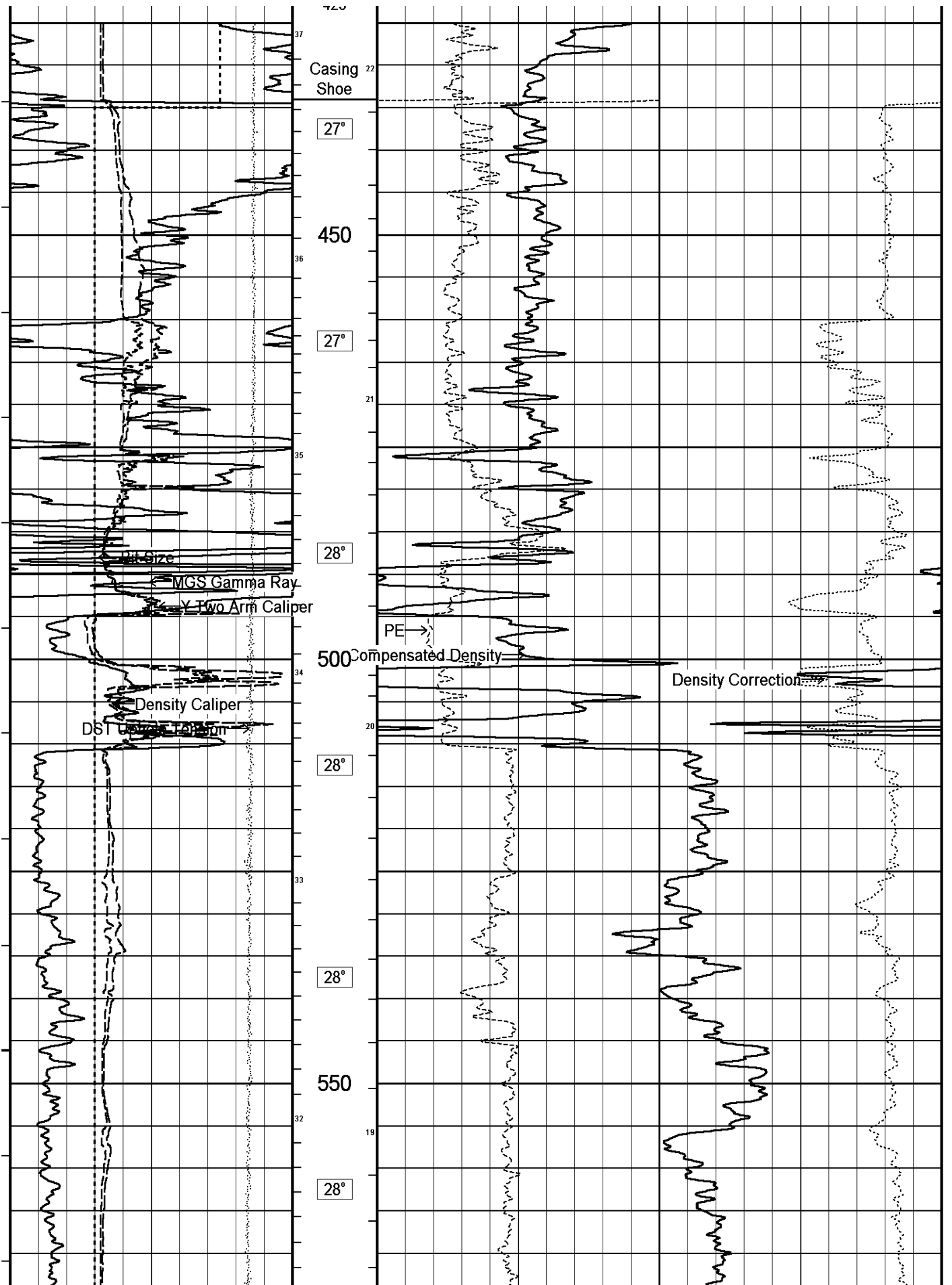
ANNULAR VOLUME USING 139.7 MM PRODUCTION CASING = 22.0 CU.M

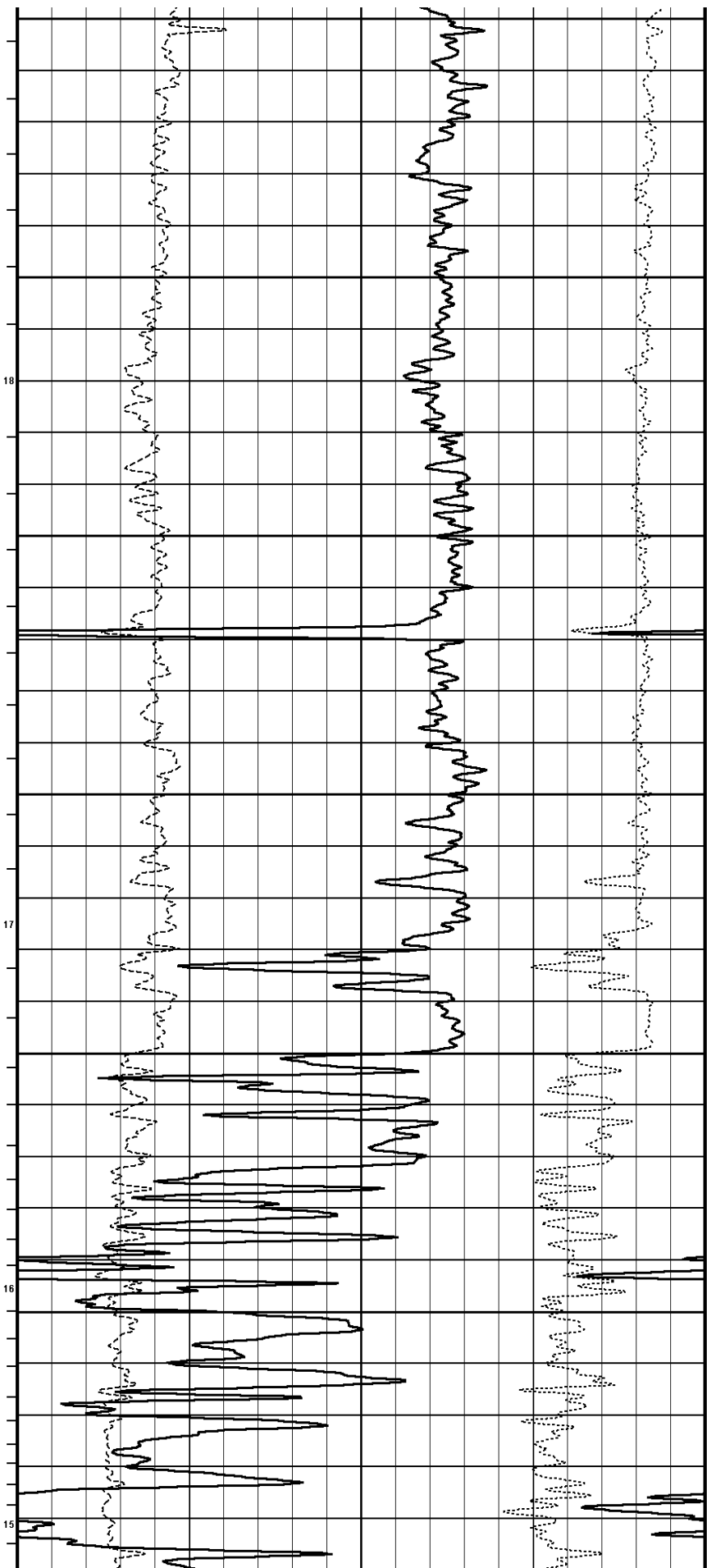
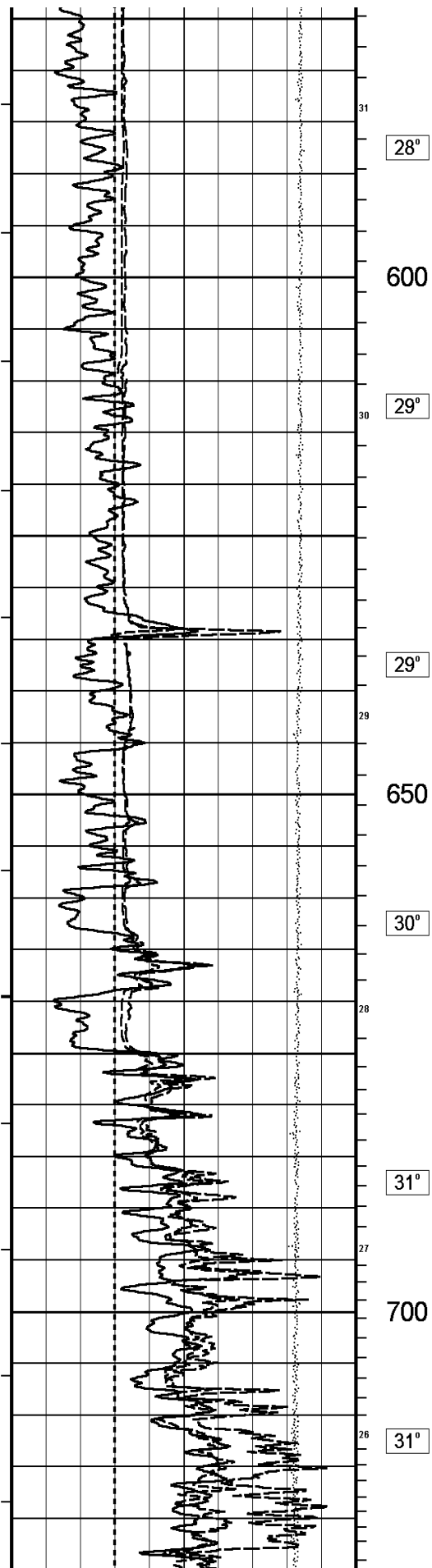
8) AREAS OF BOREHOLE RUGOSITY MAY CAUSE POOR DENSITY PAD CONTACT AND THUS HIGH DENSITY CORRECTION.
DENSITY POROSITY DATA MAY BE SKEWED AT THOSE INTERVALS.

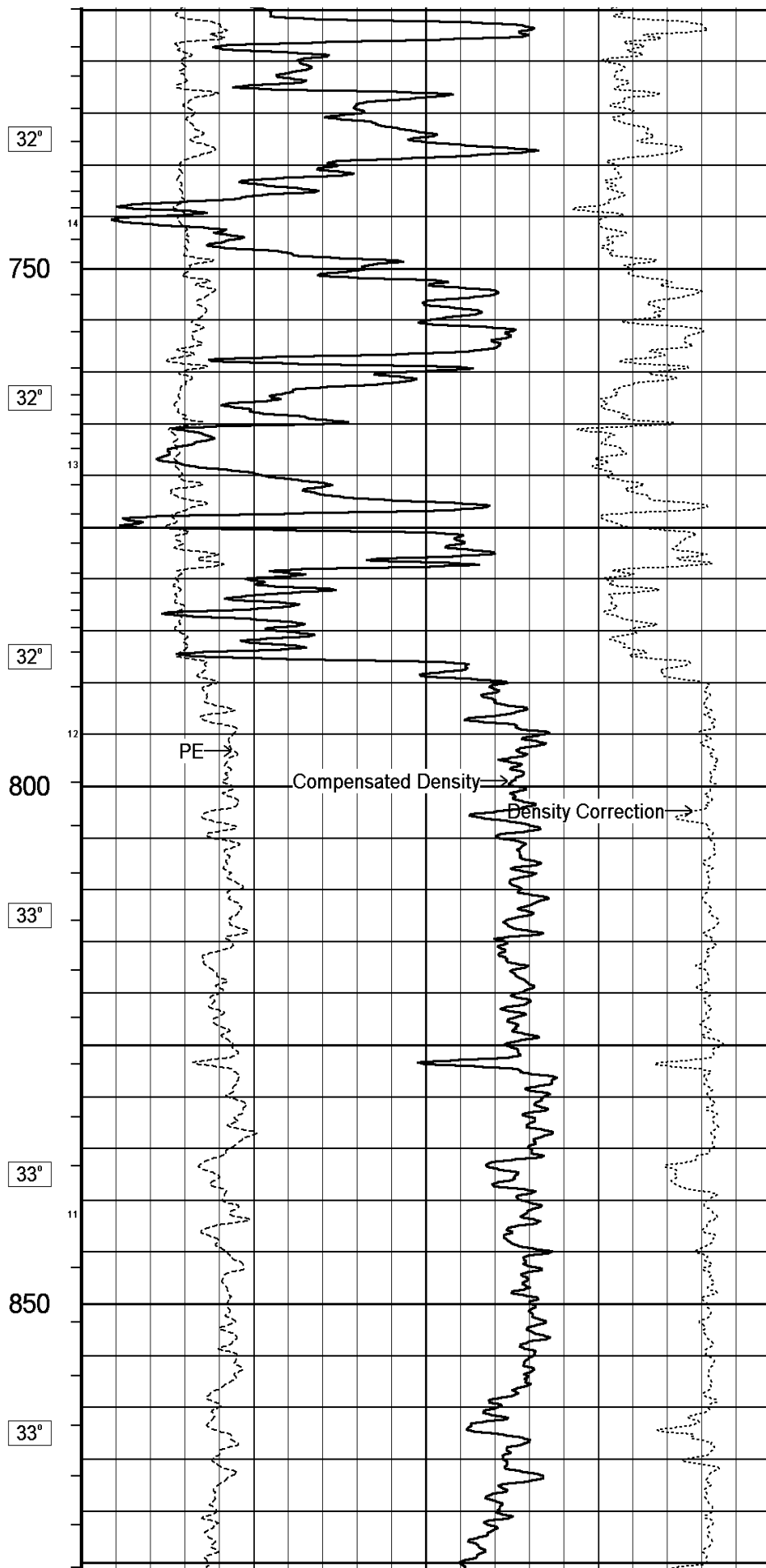
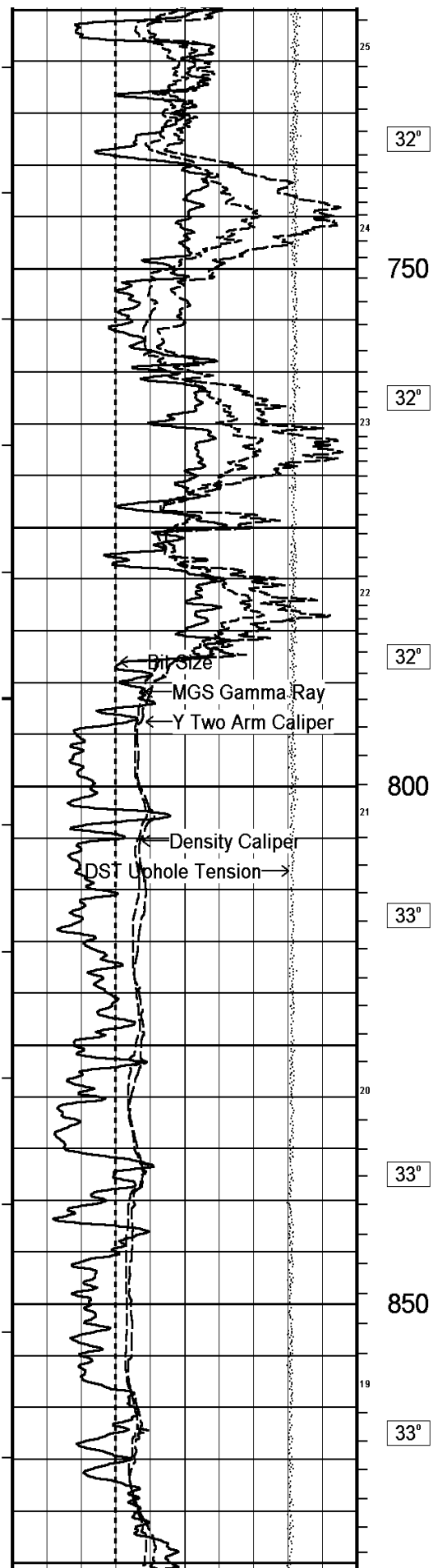
9) ADDITIONAL PASS MADE TO IMPROVE SONIC OVERLAY. DATA LOOKS GOOD BUT IS A LITTLE NOISY IN SOME SECTIONS.
ADDITIONAL REPEAT SHOWN TO FURTHER VERIFY RESPONSE.

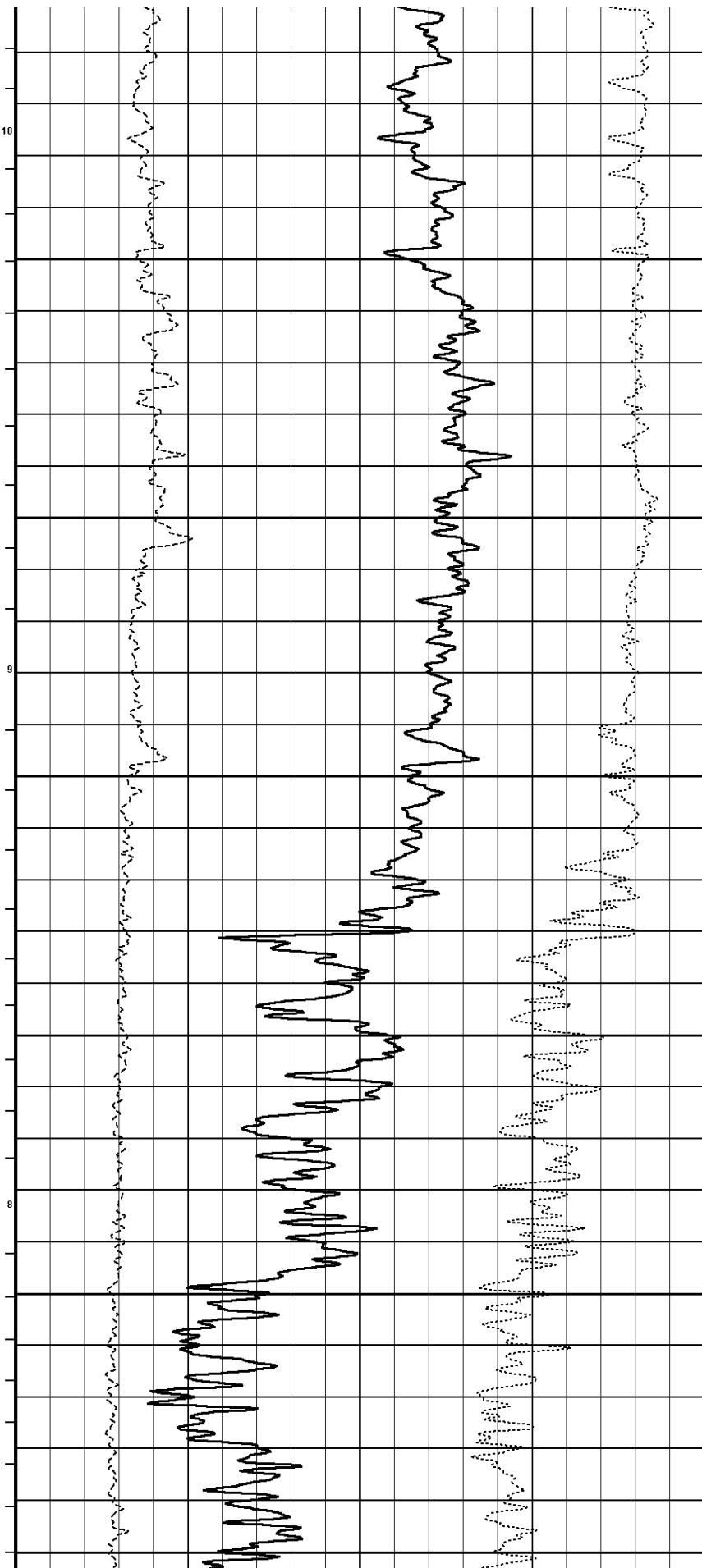
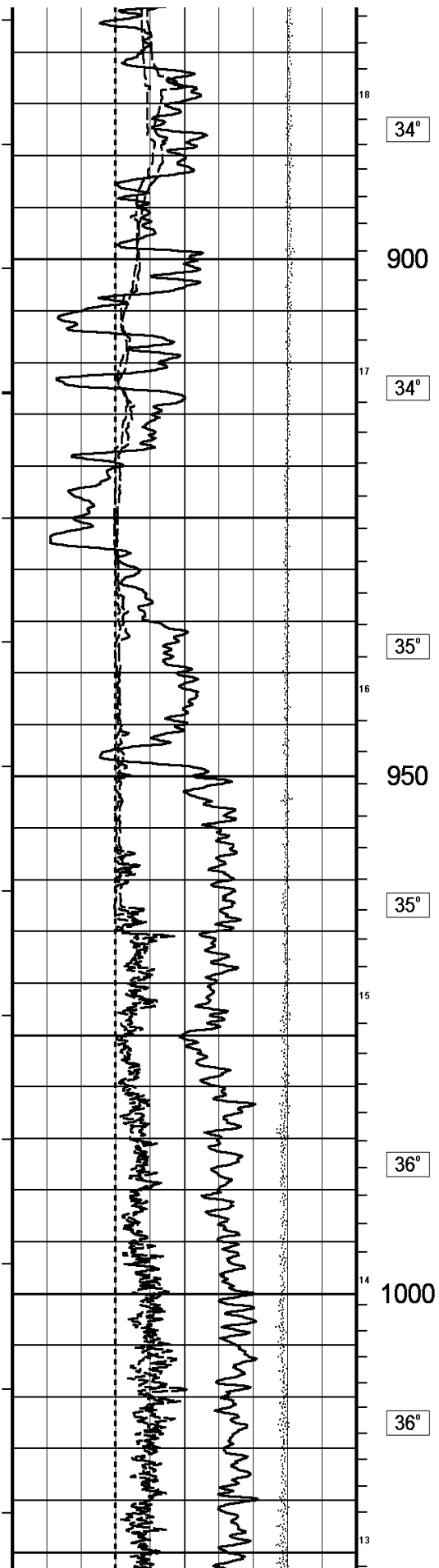
All interpretations are opinions based on inferences from electrical or other measurements and we cannot, and do not, guarantee the accuracy or correctness of any interpretations, and we shall not, except in the case of gross or wilful negligence on our part, be liable or responsible for any loss, costs,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

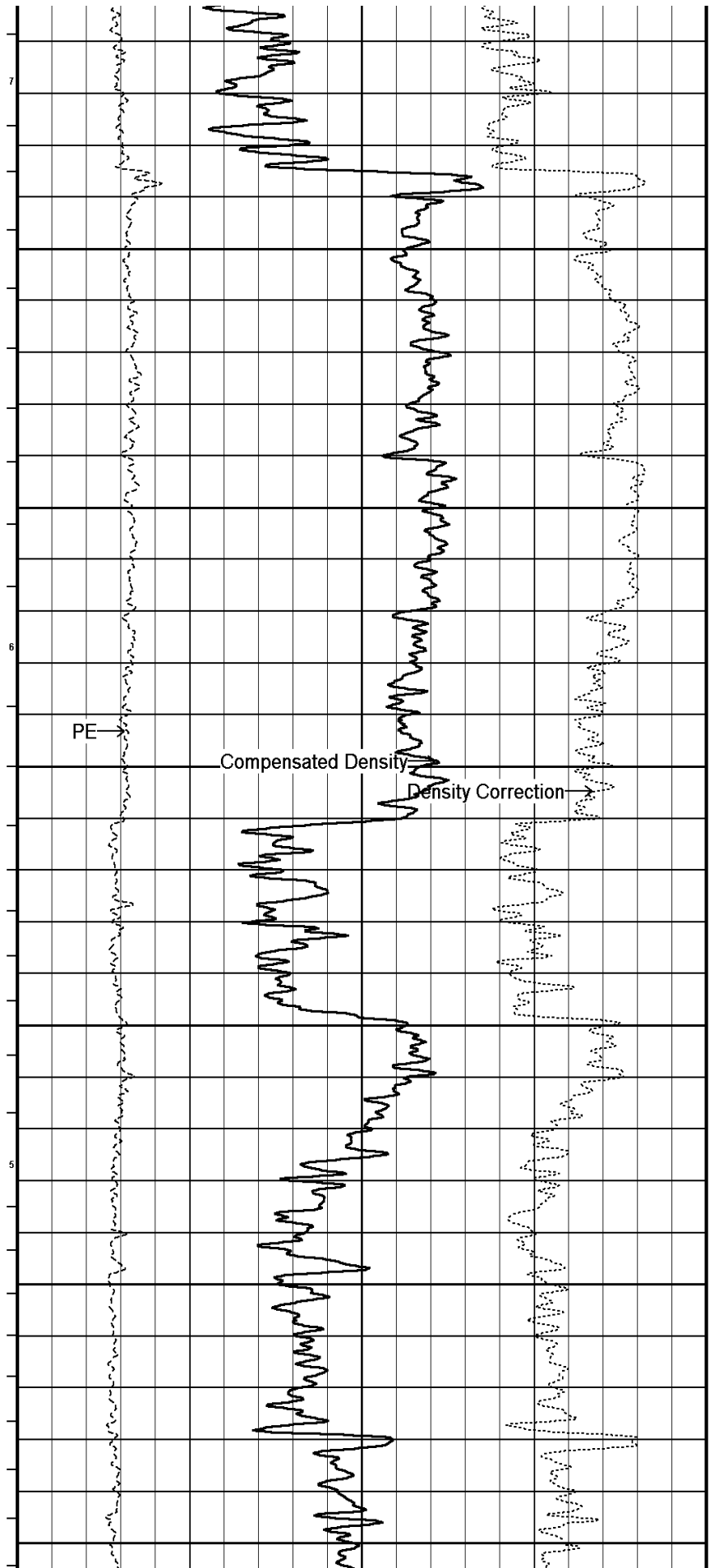
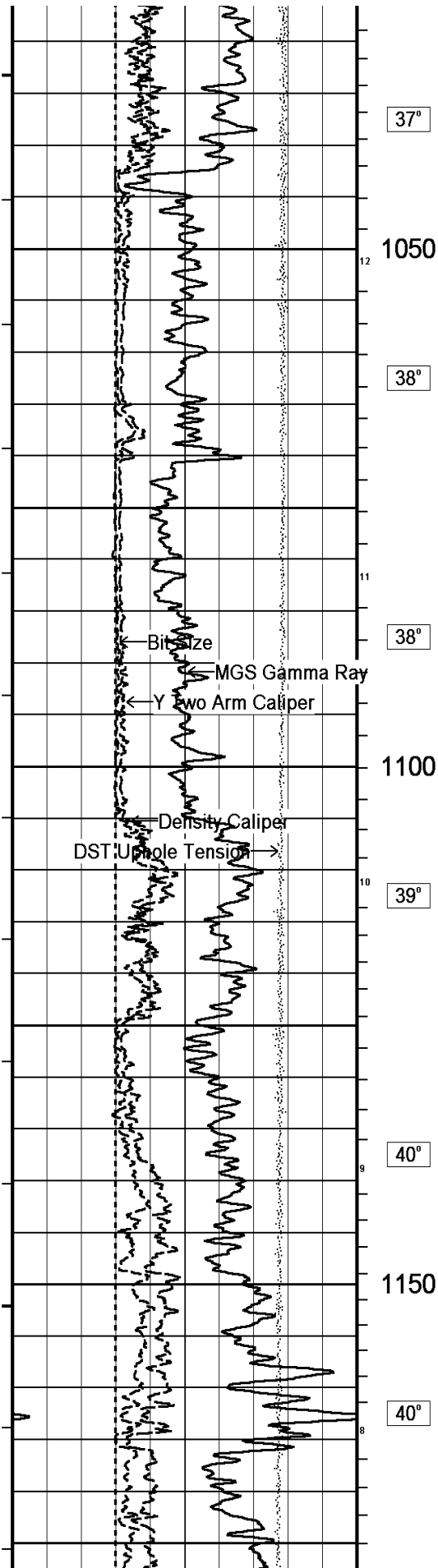


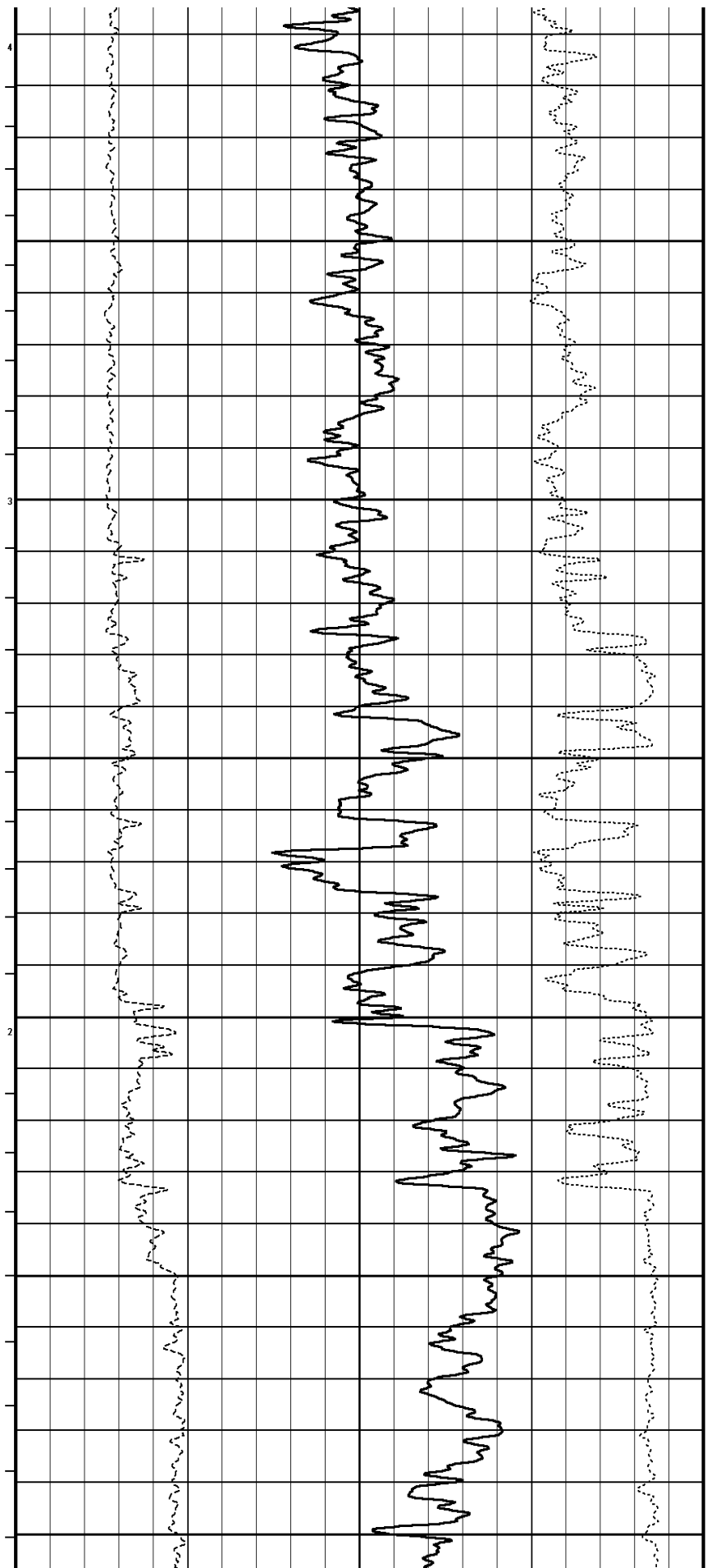
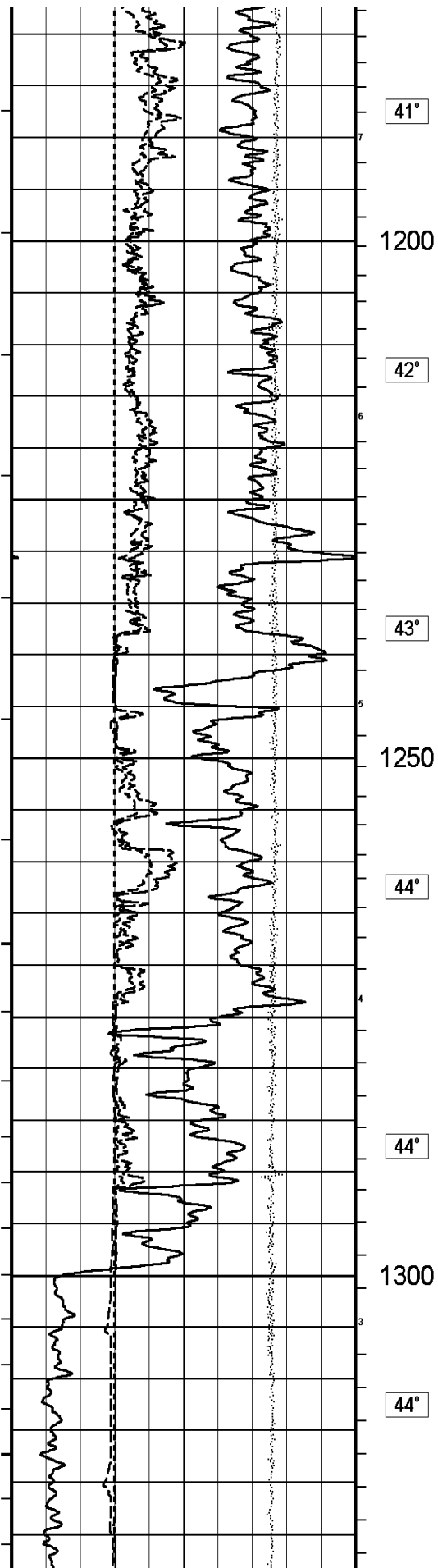


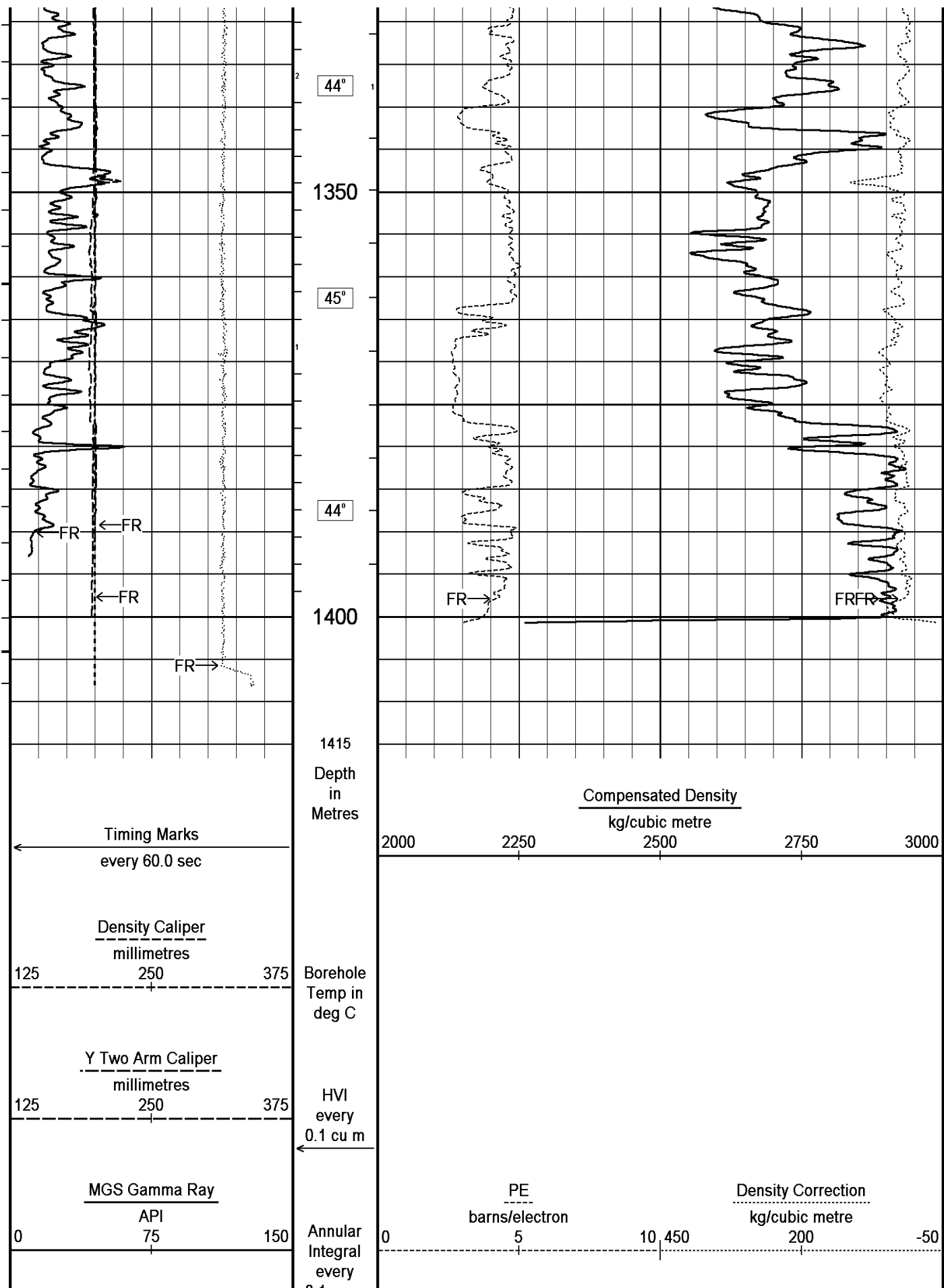


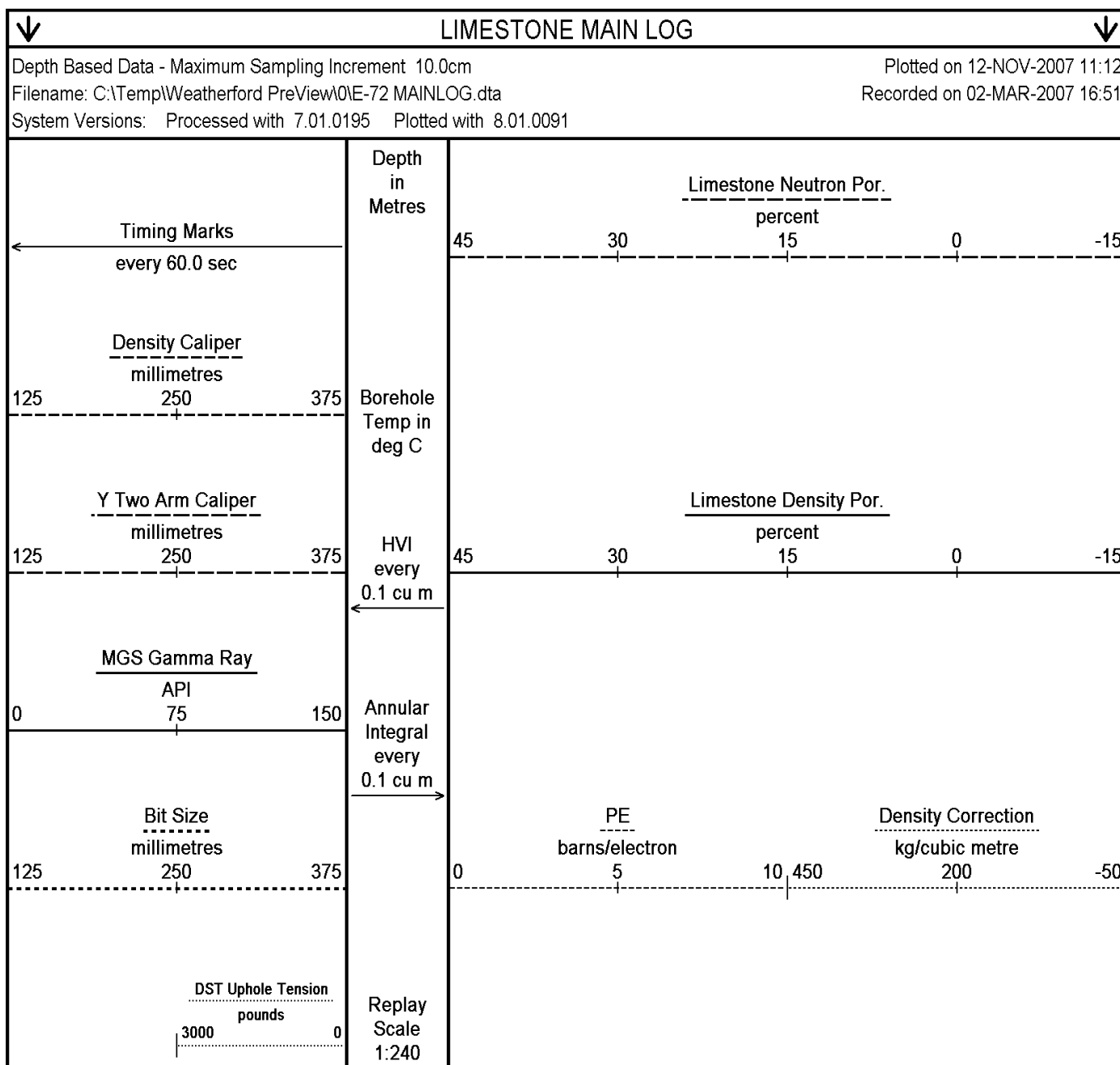
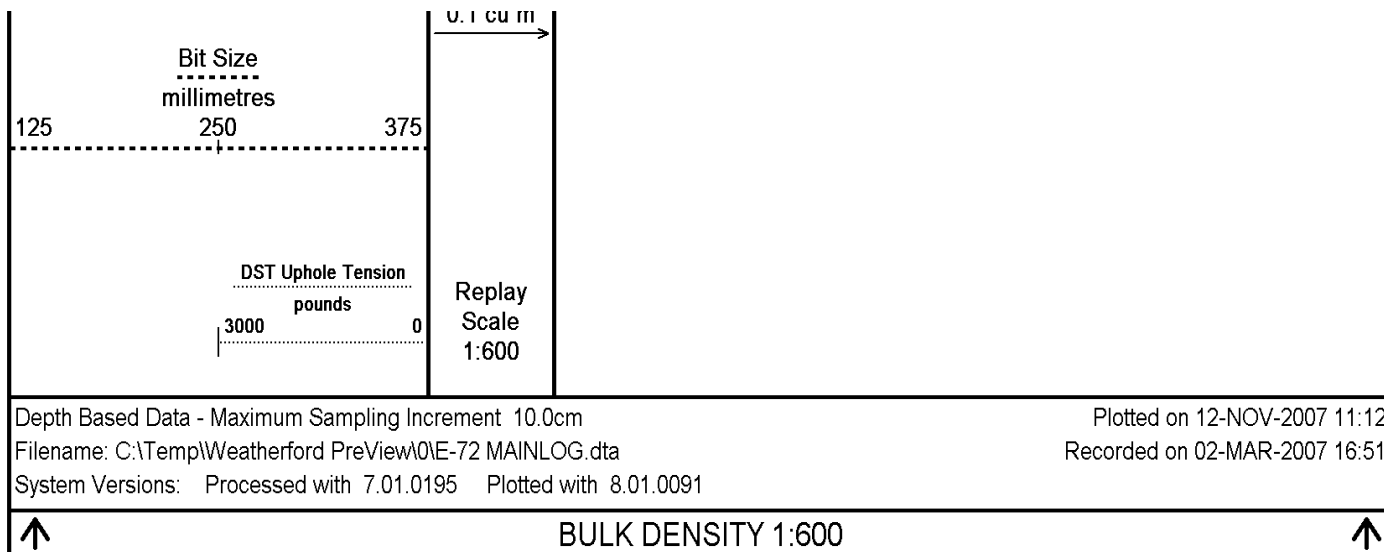


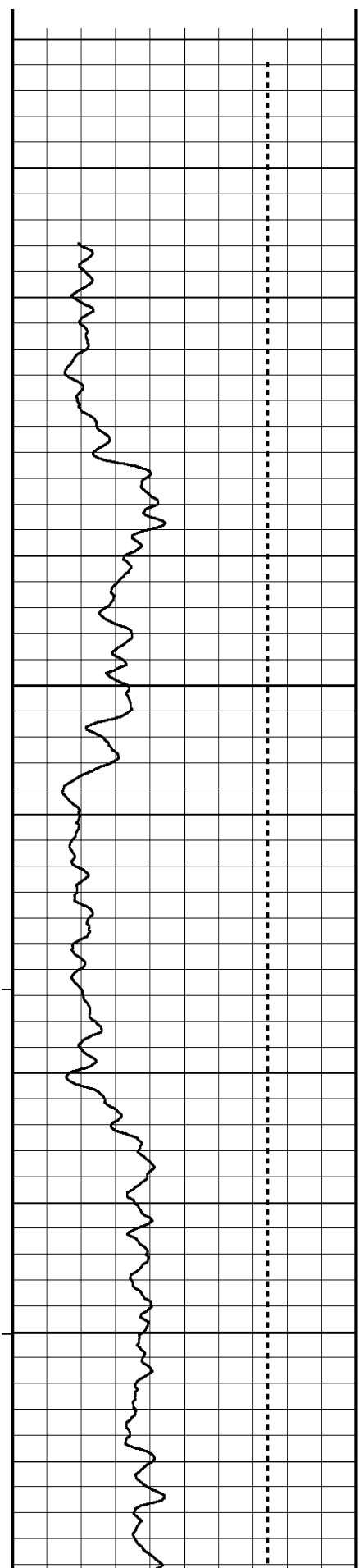












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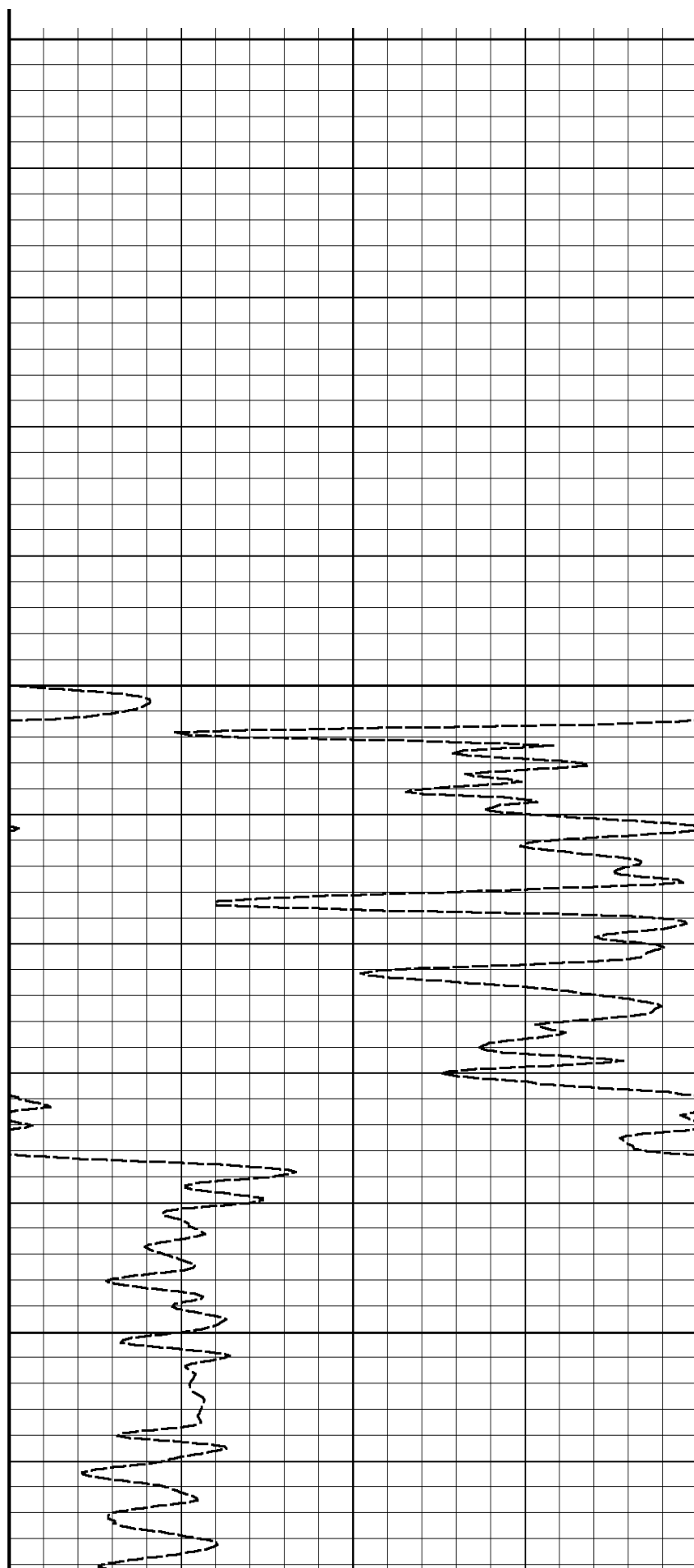
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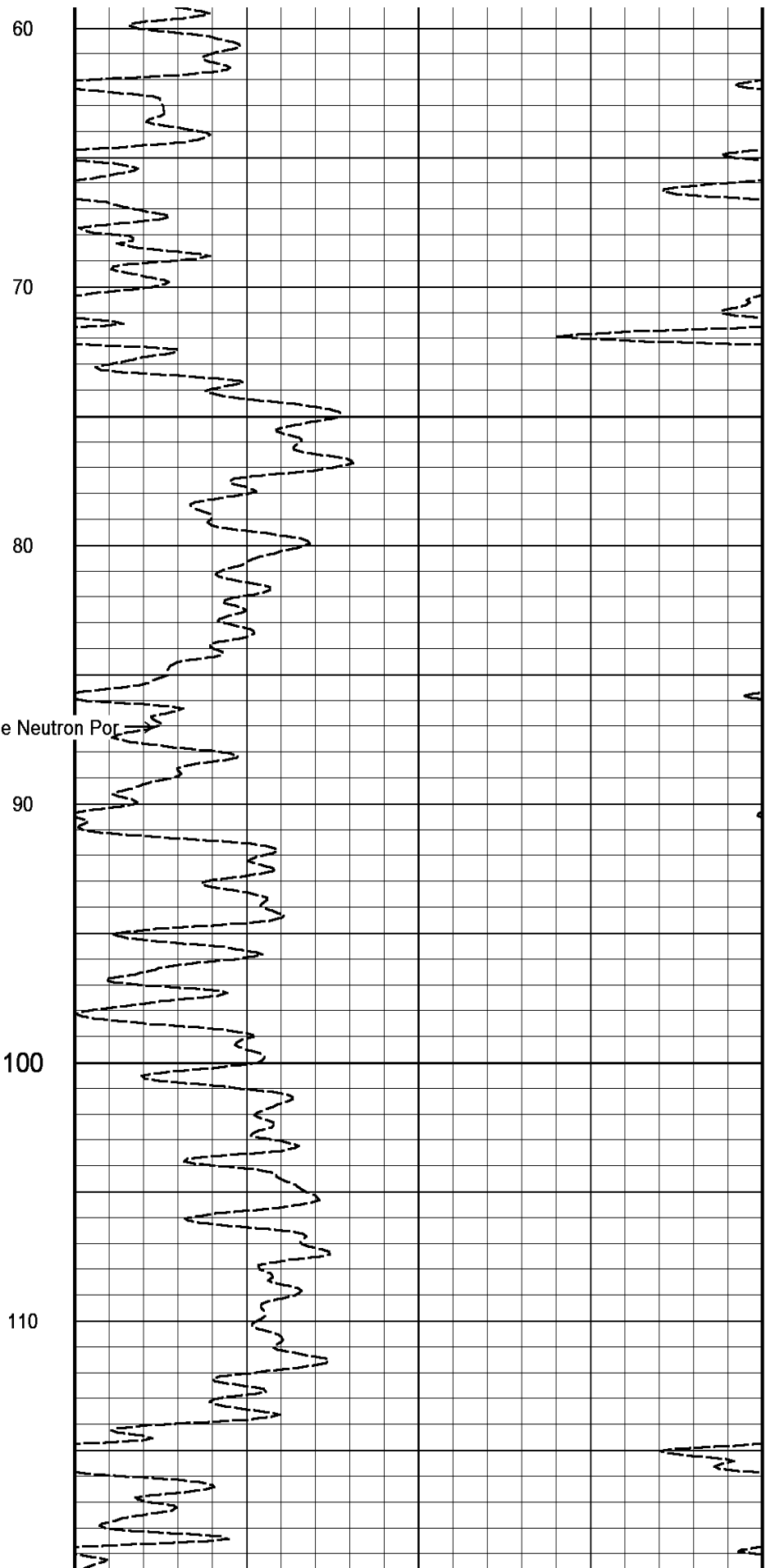
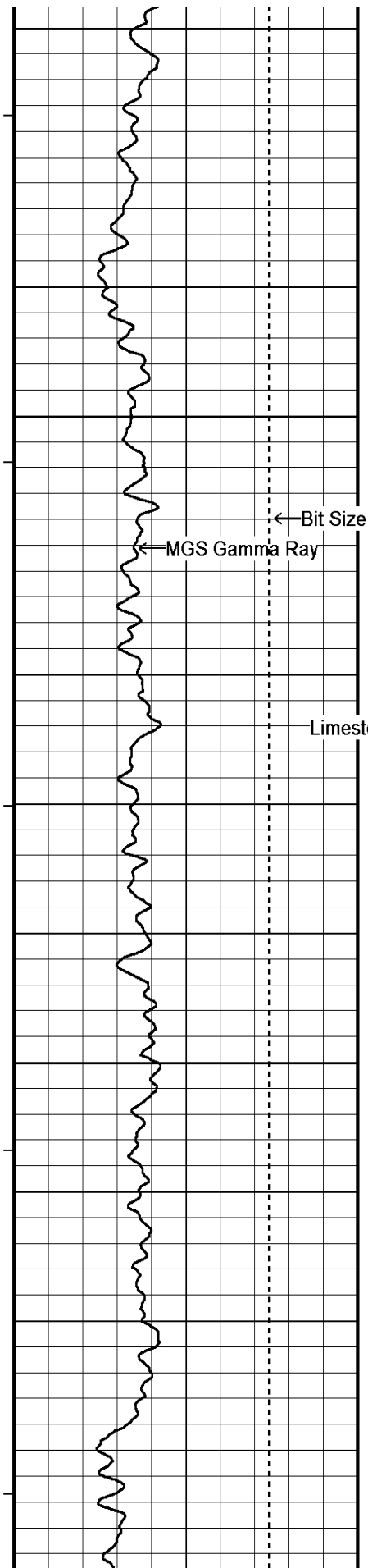
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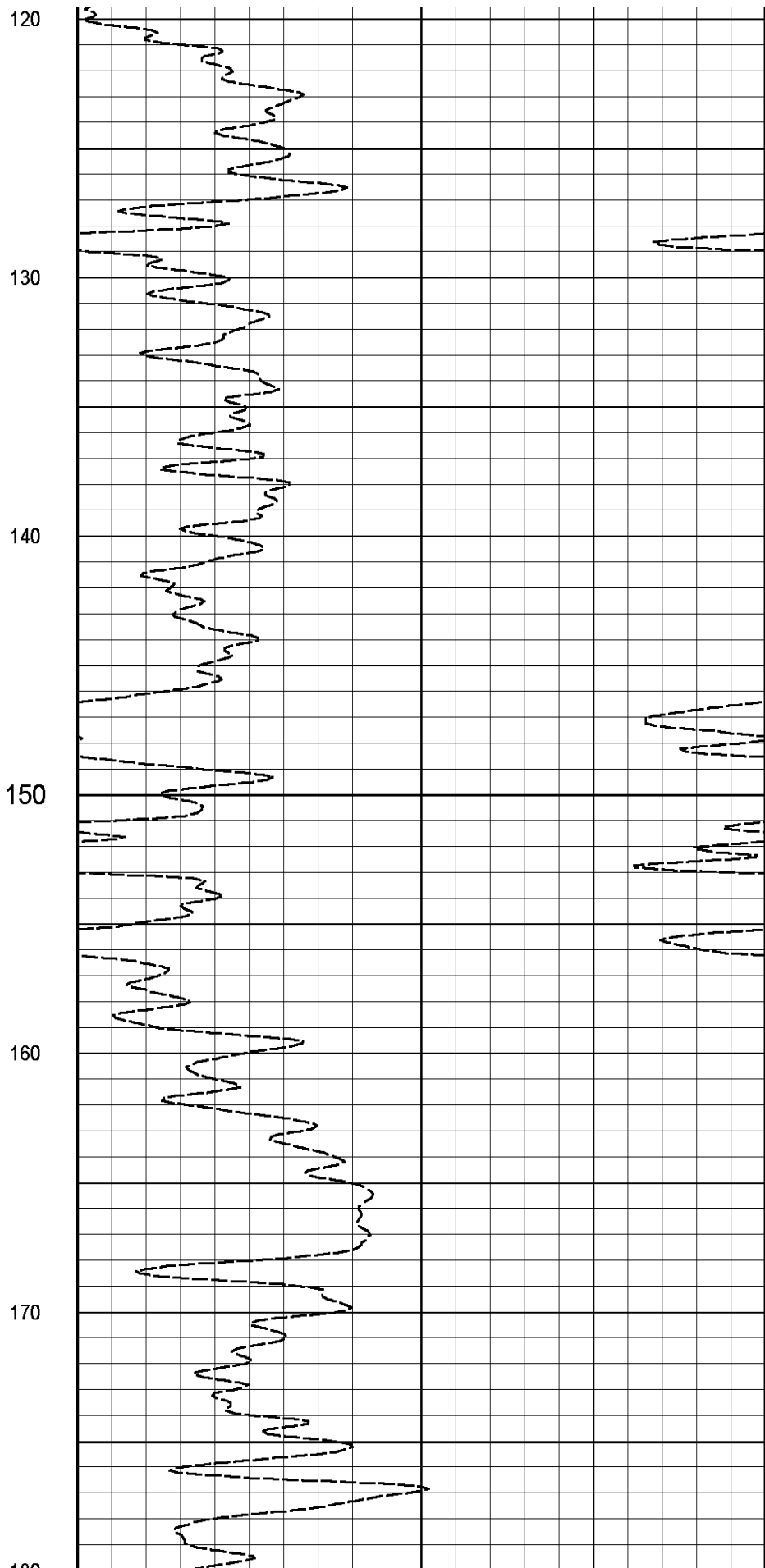
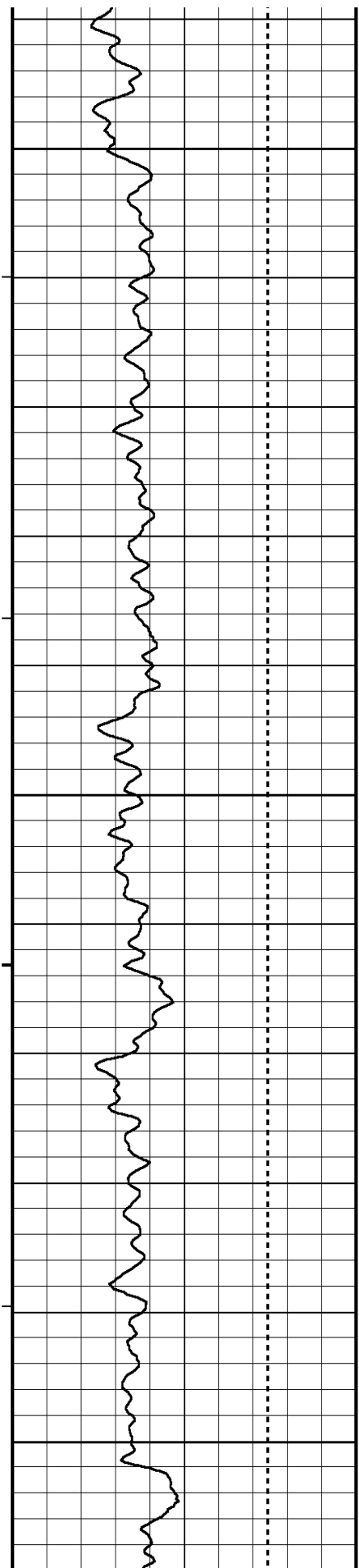
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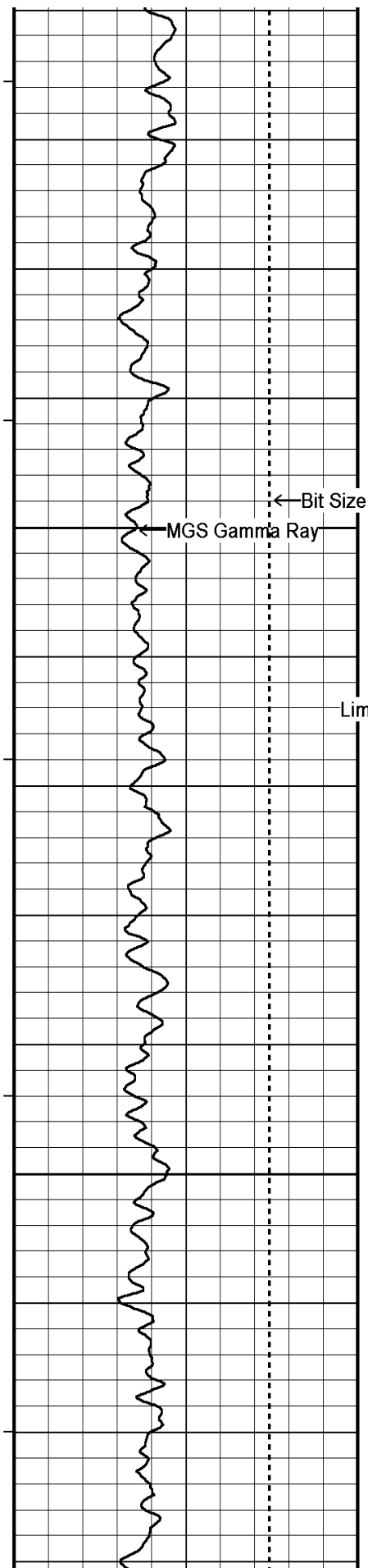
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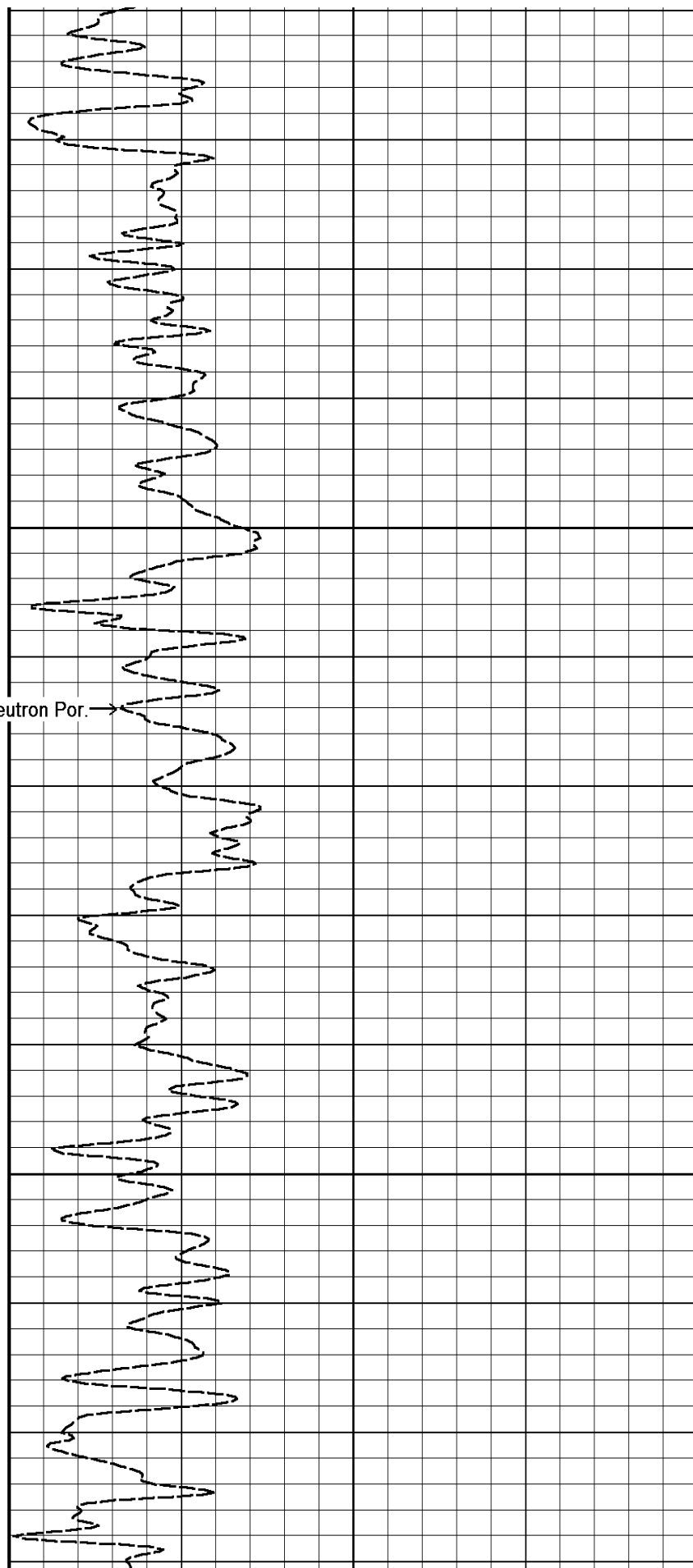
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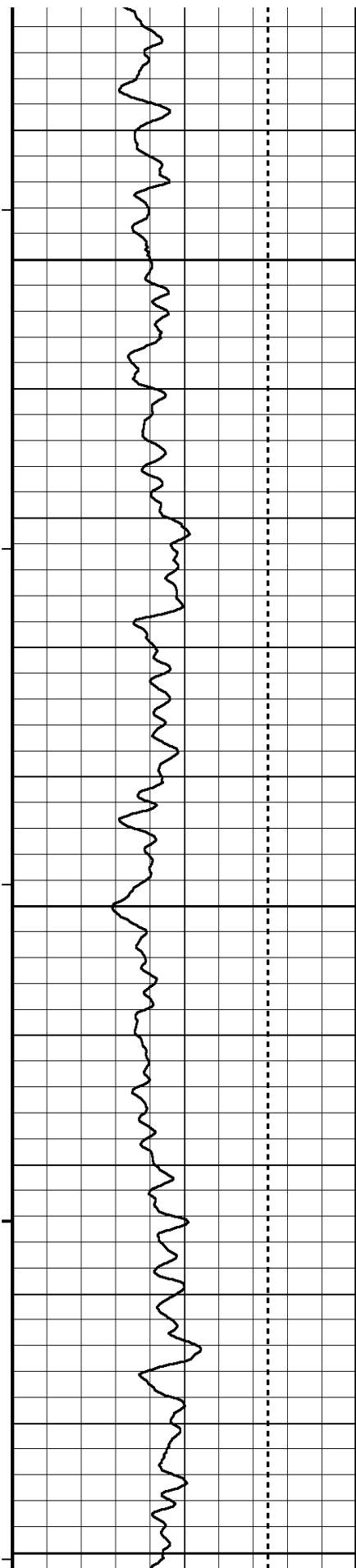
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230

240

Limestone Neutron Por.





250

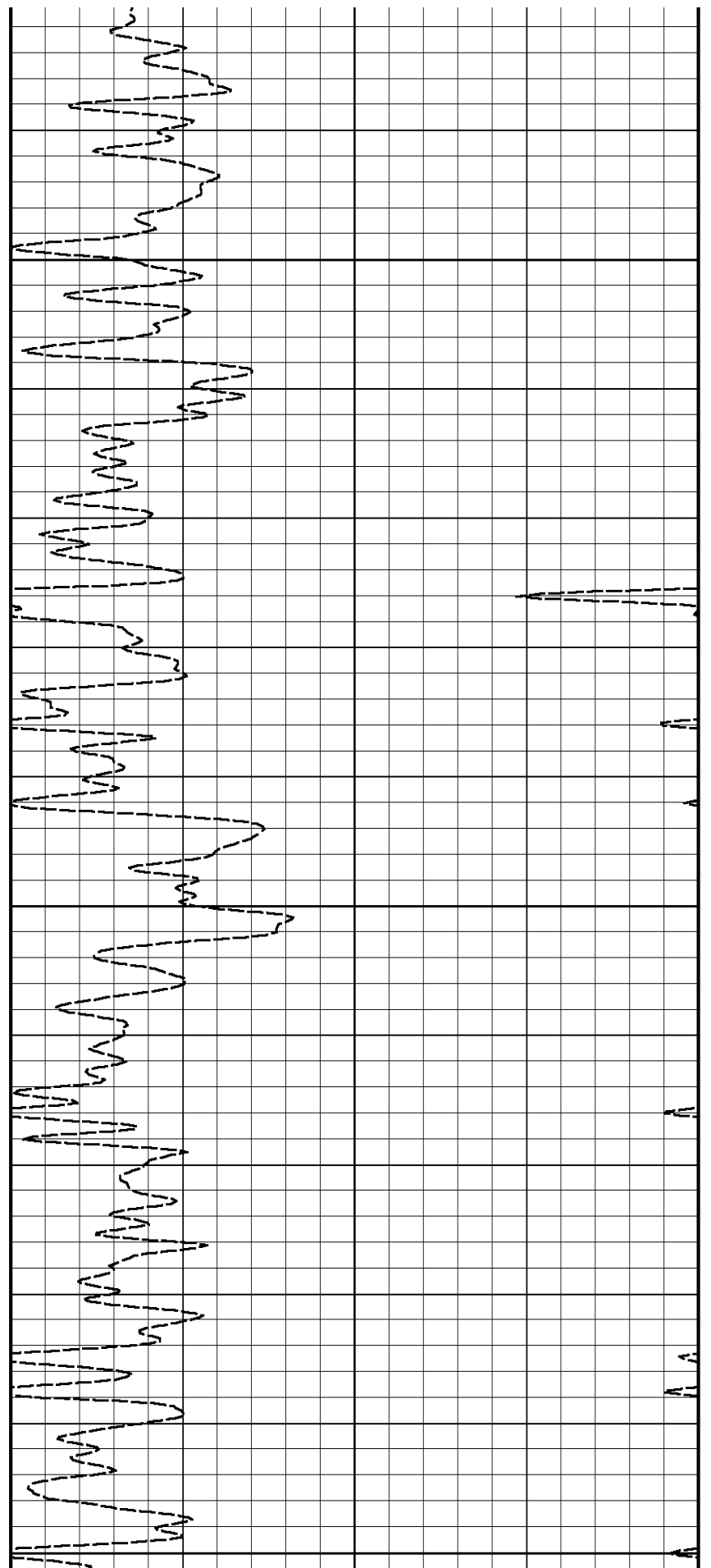
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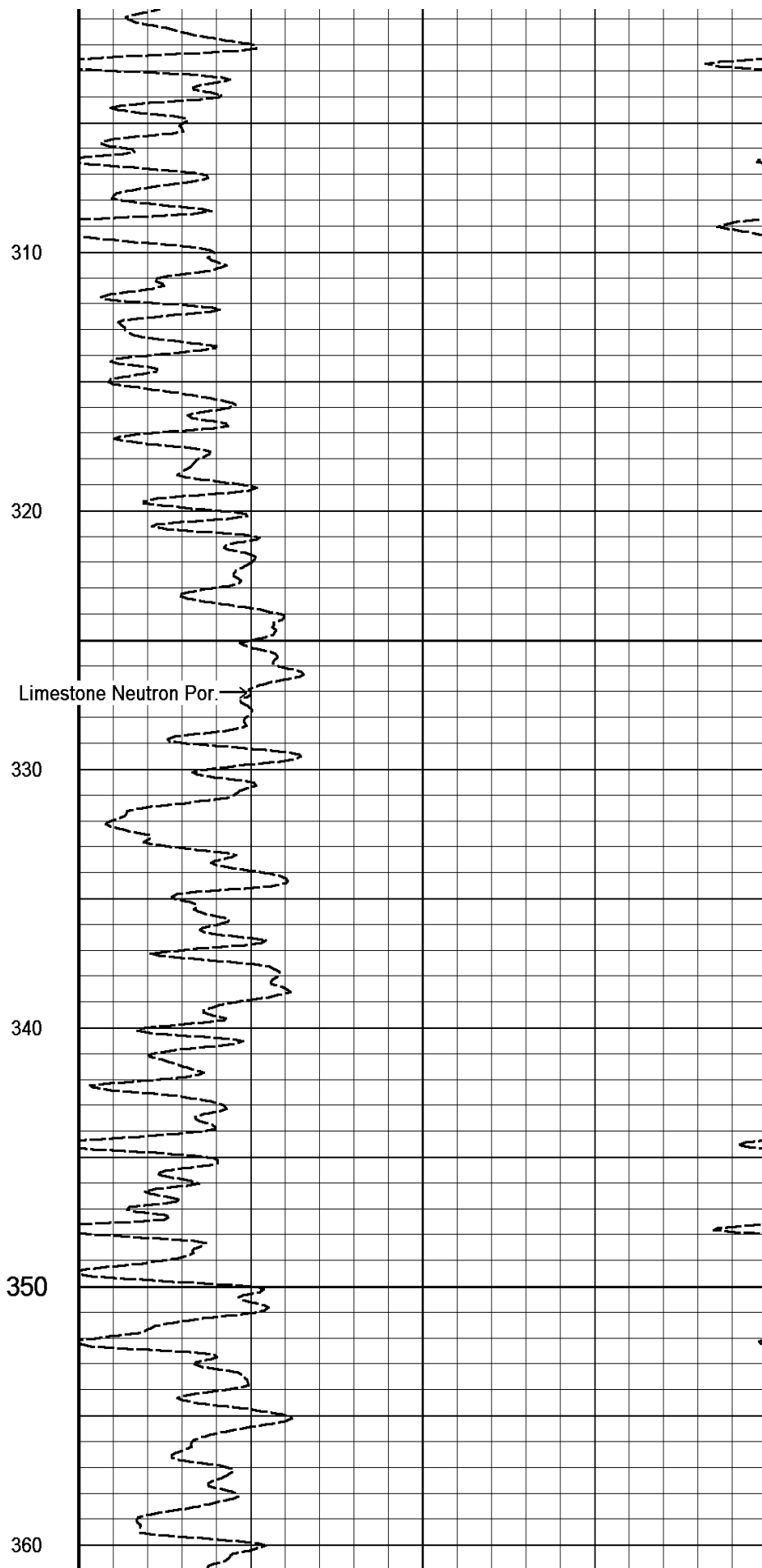
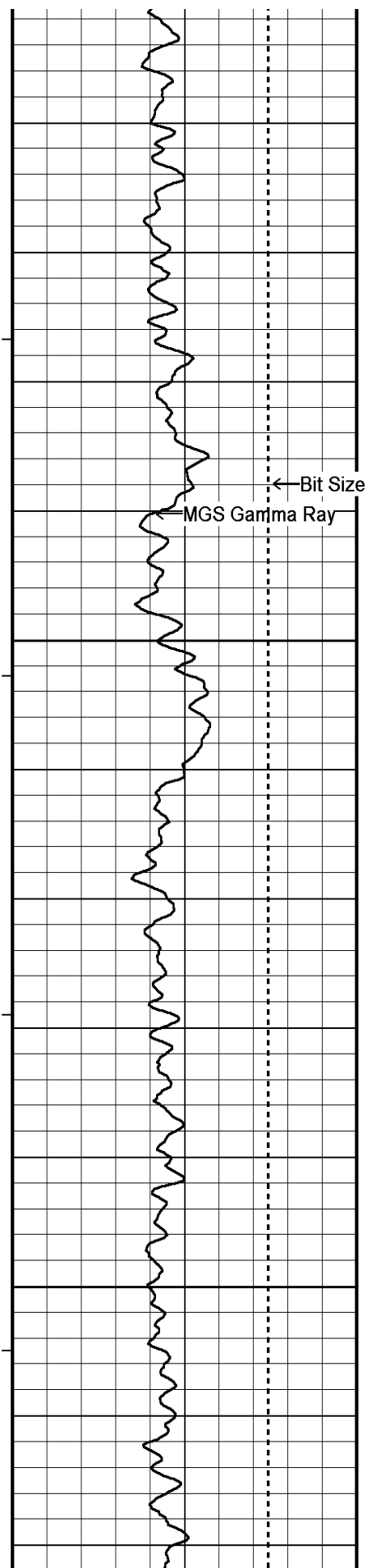
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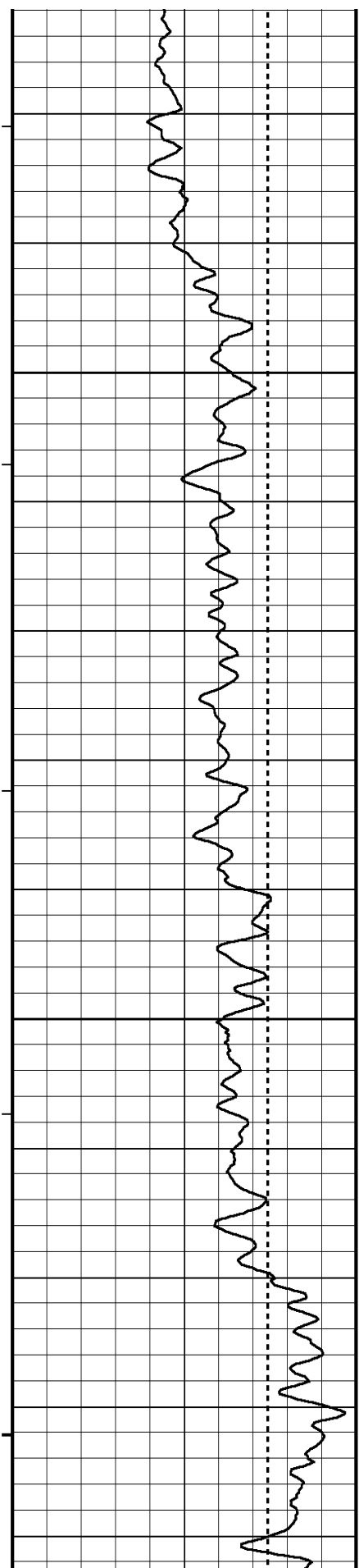
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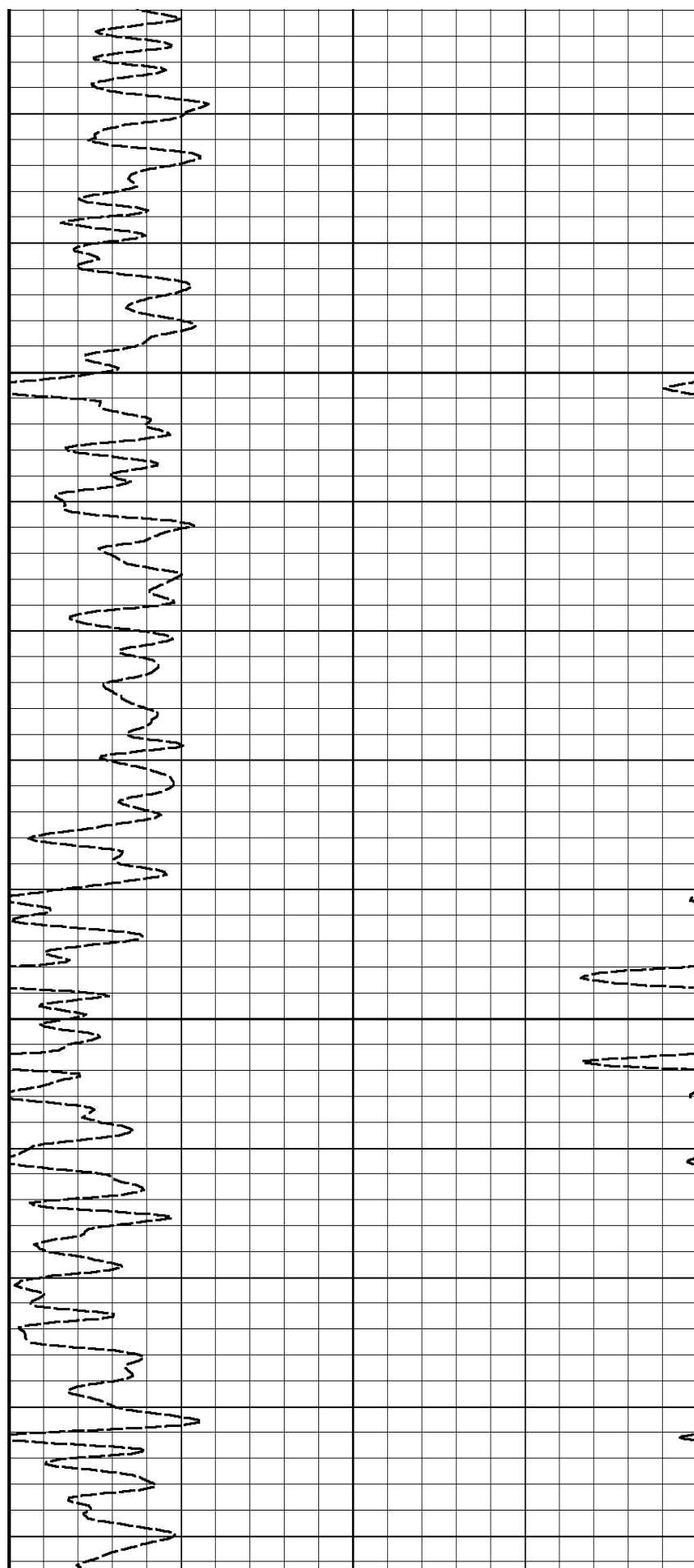
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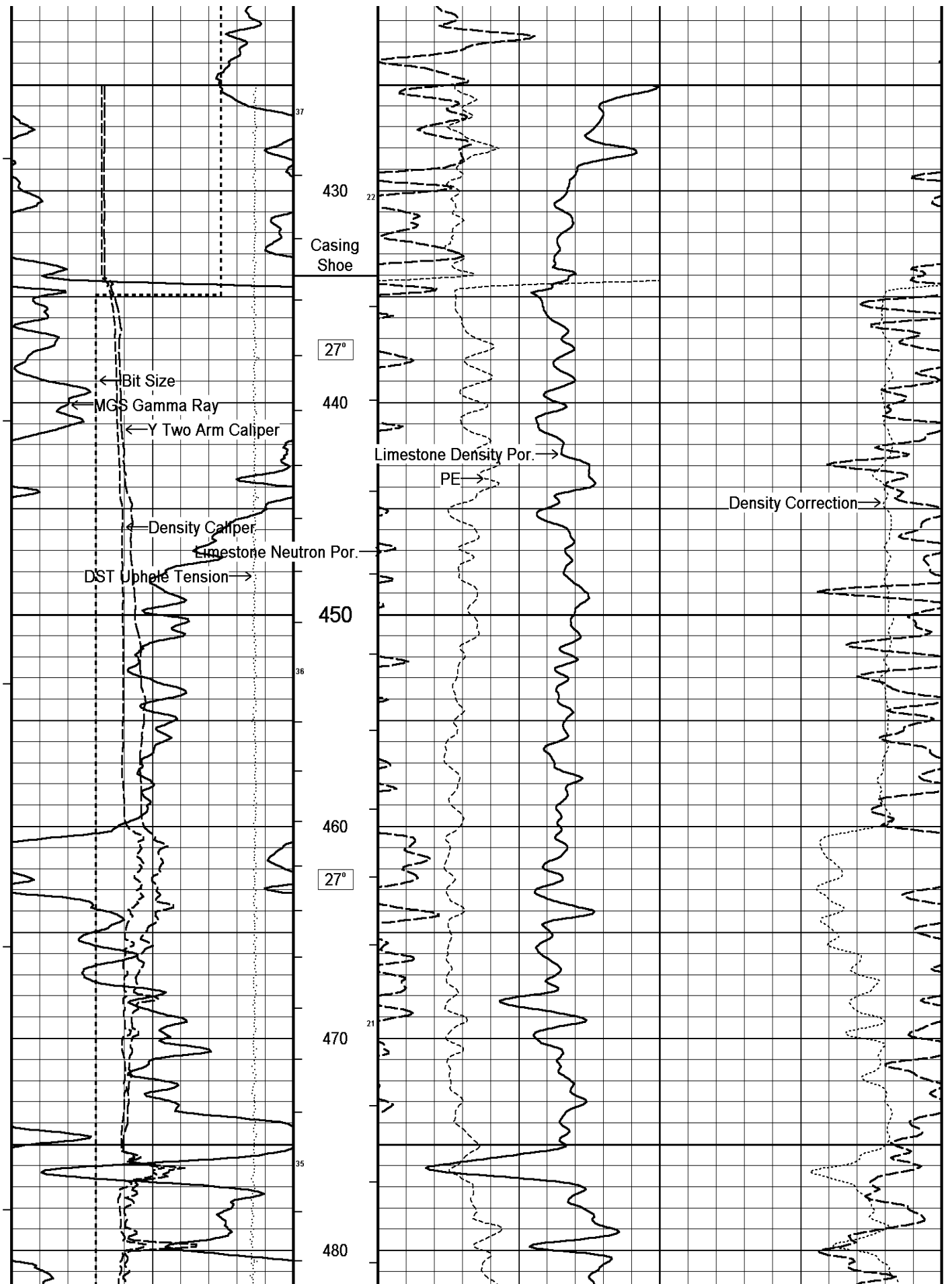
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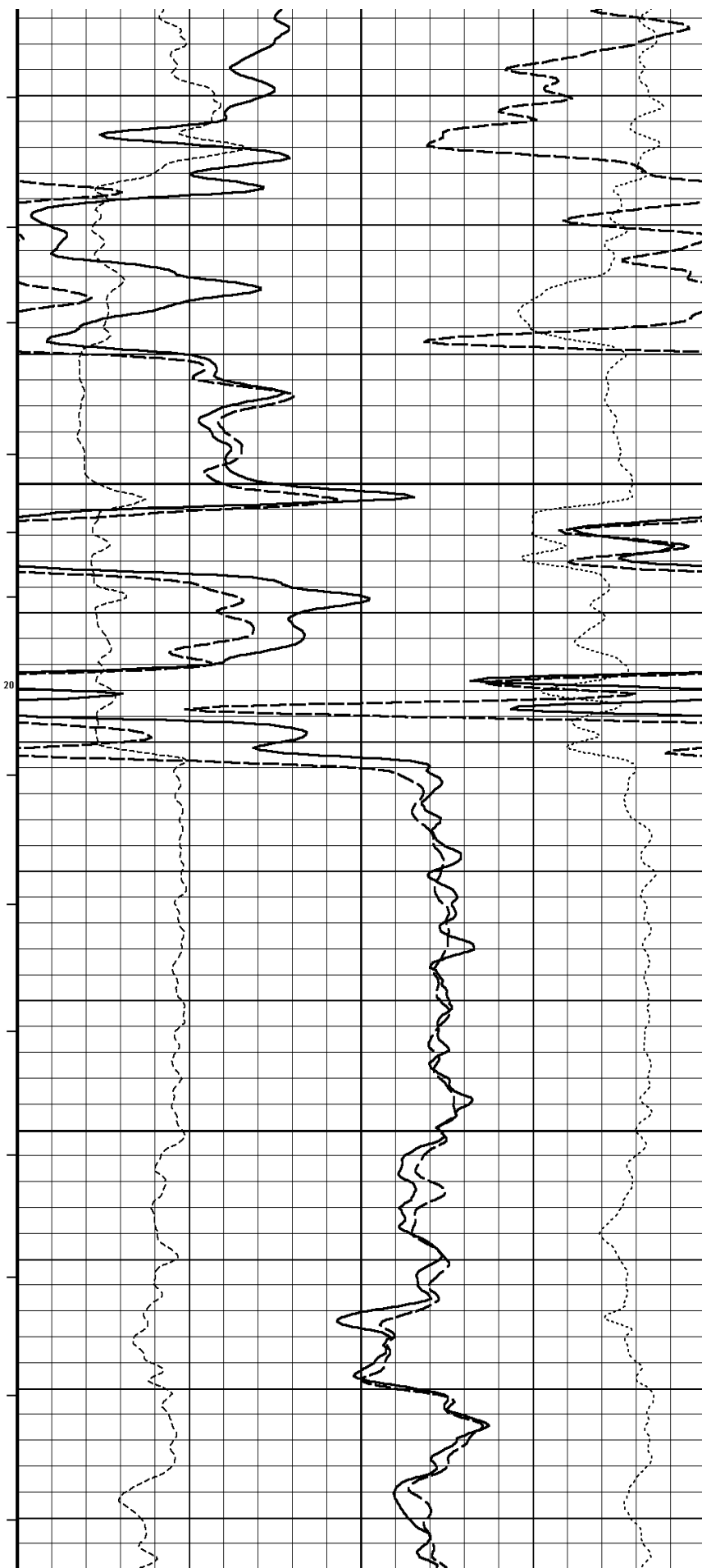
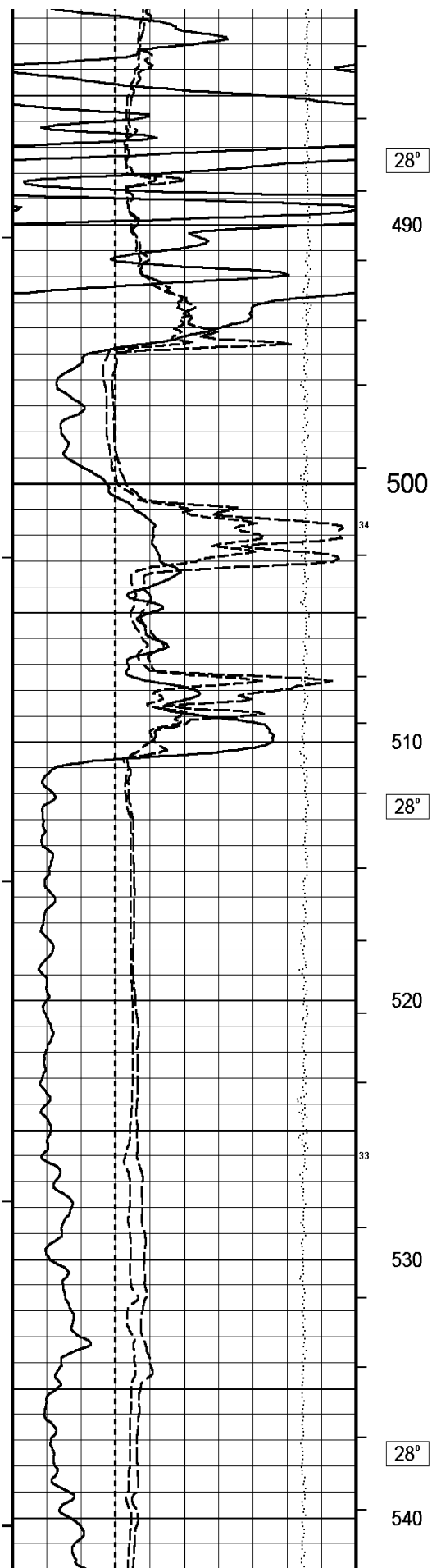
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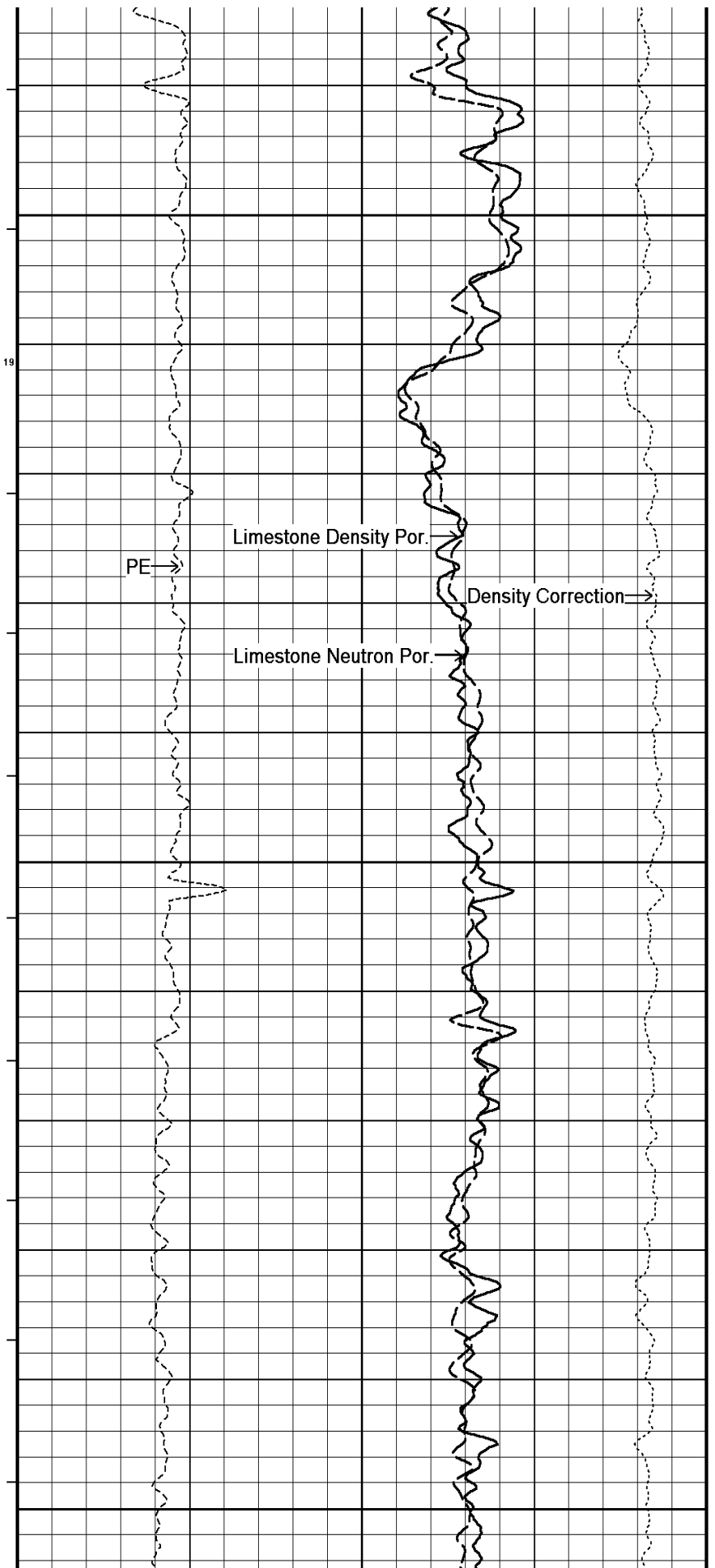
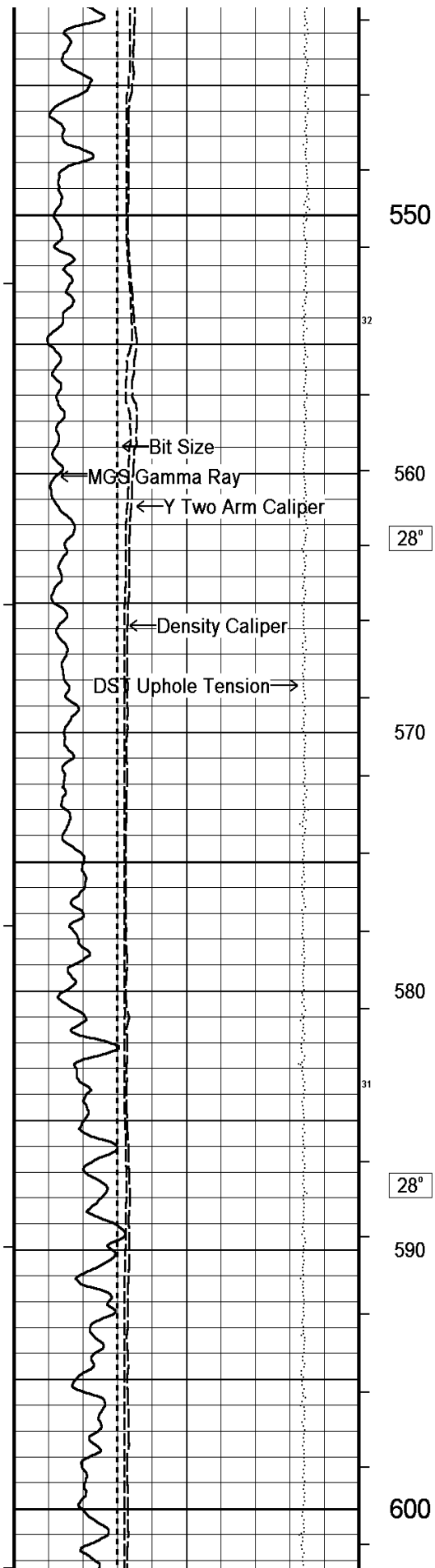
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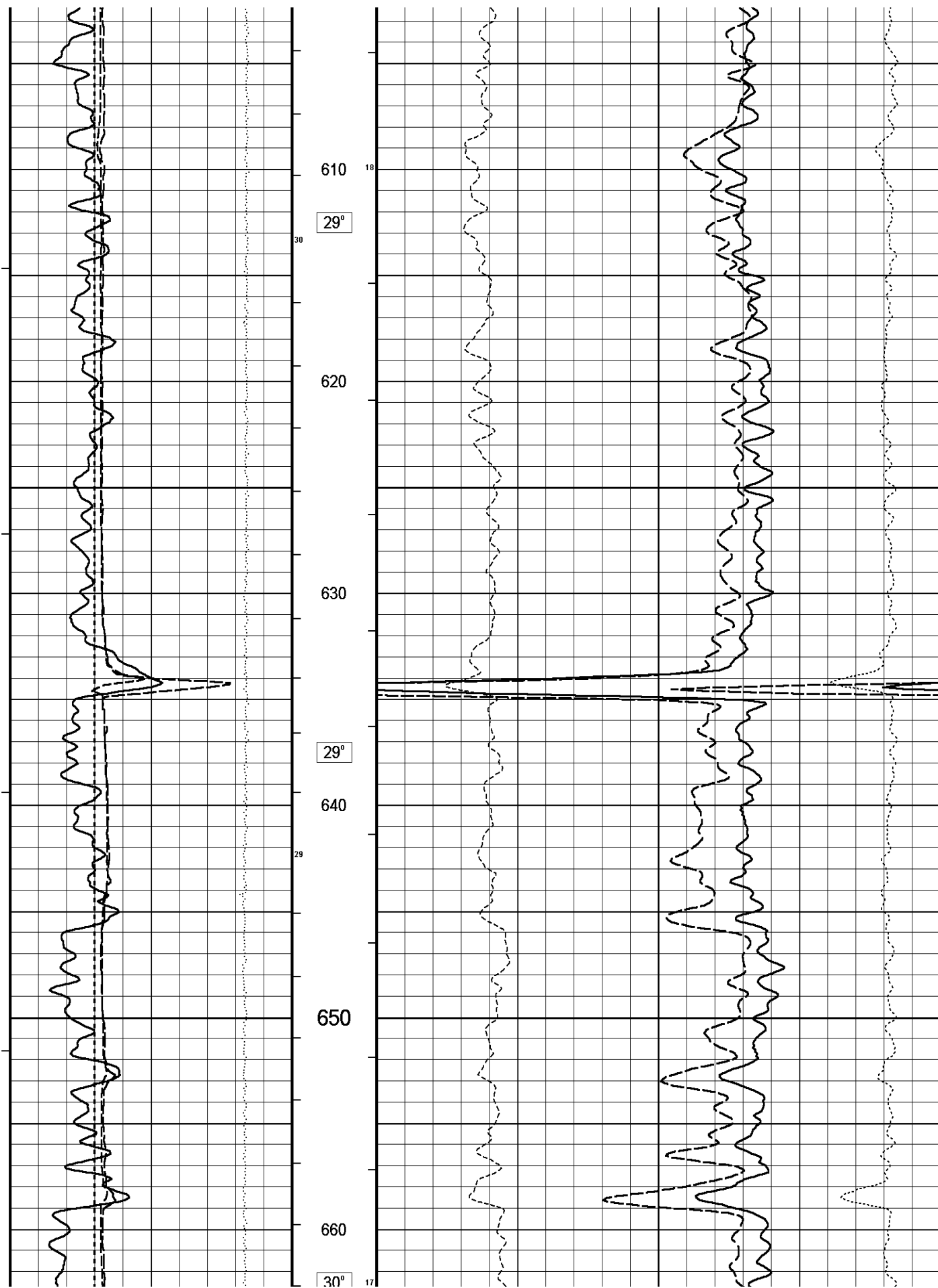
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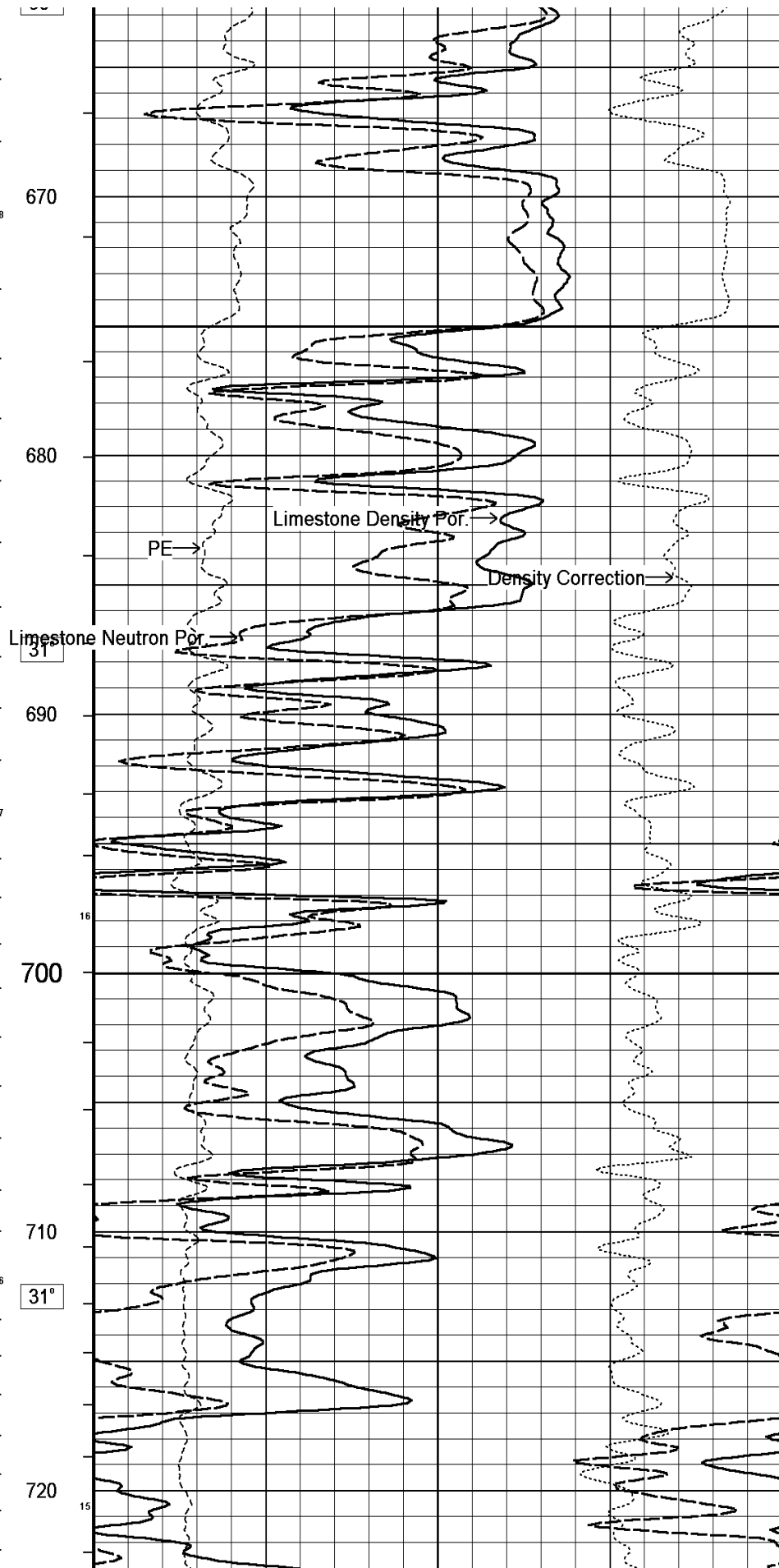
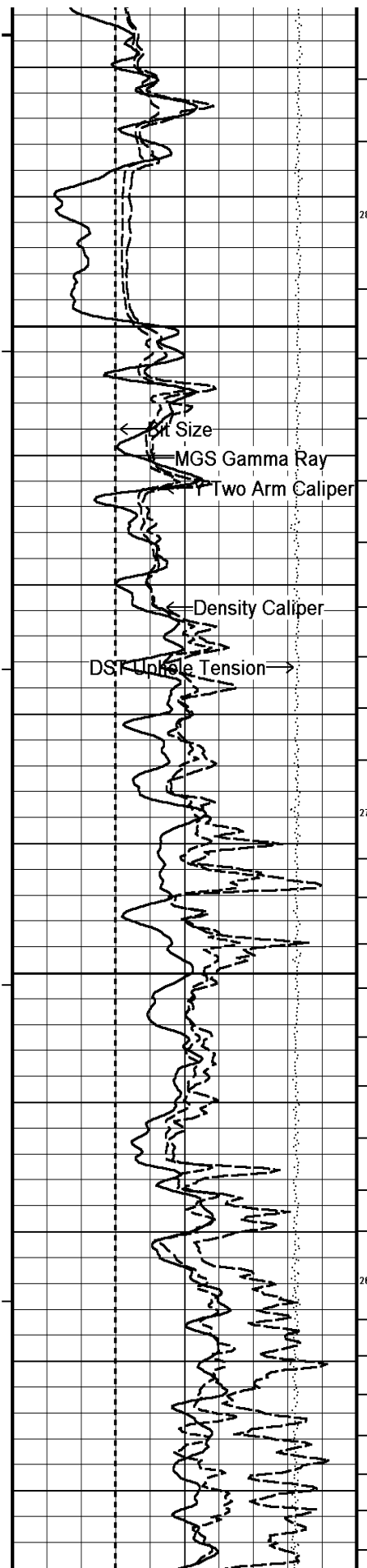


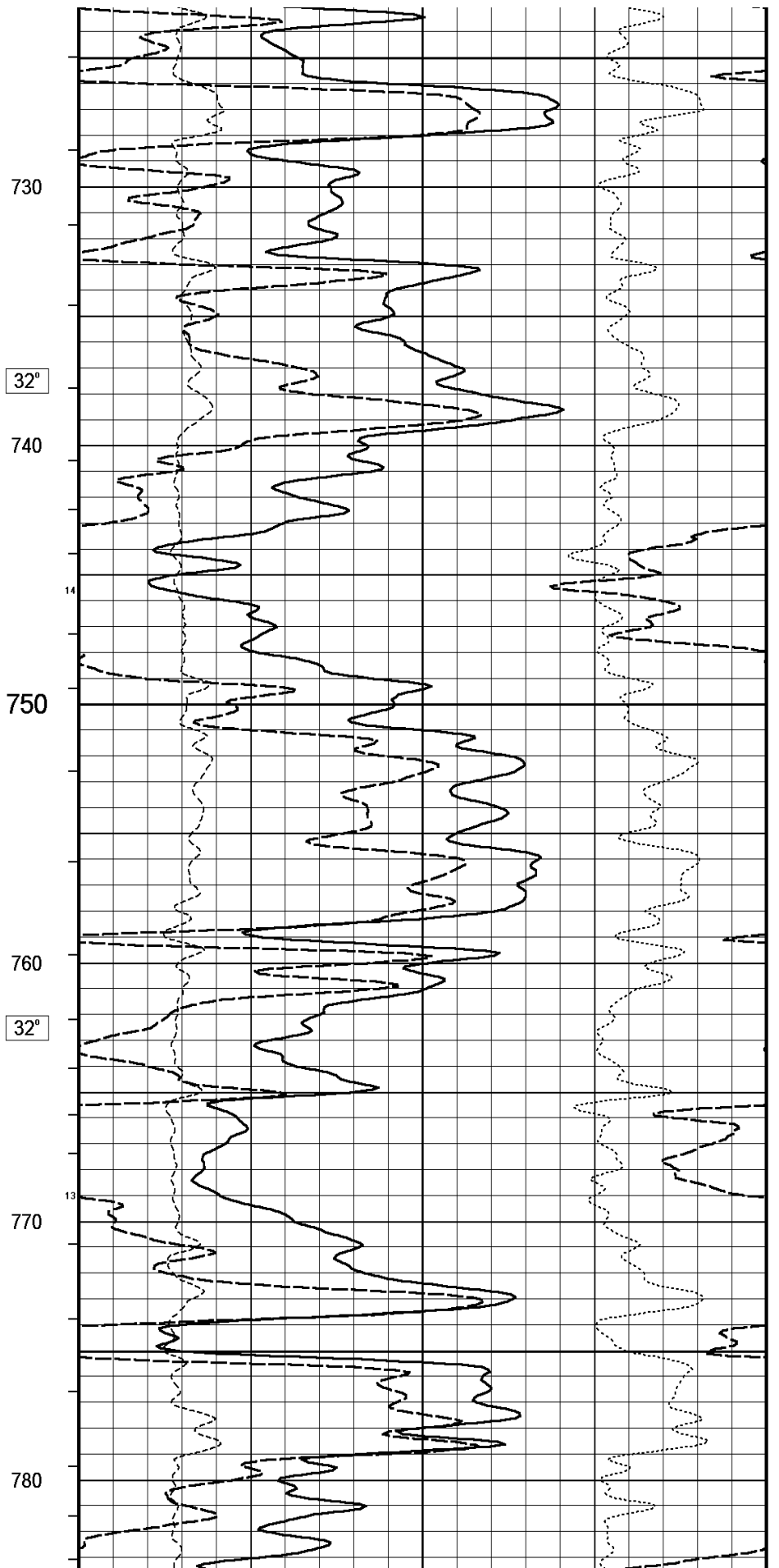
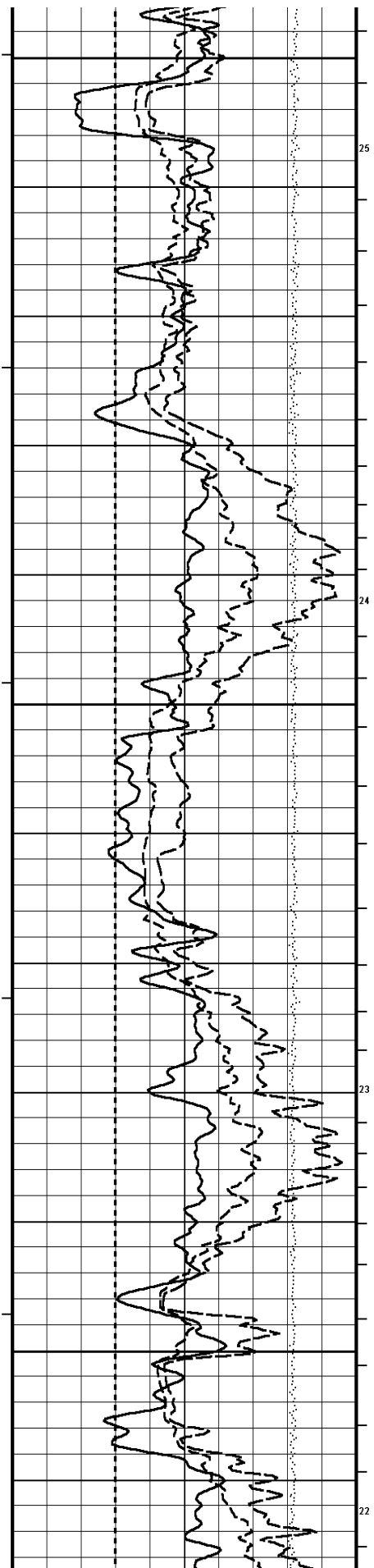


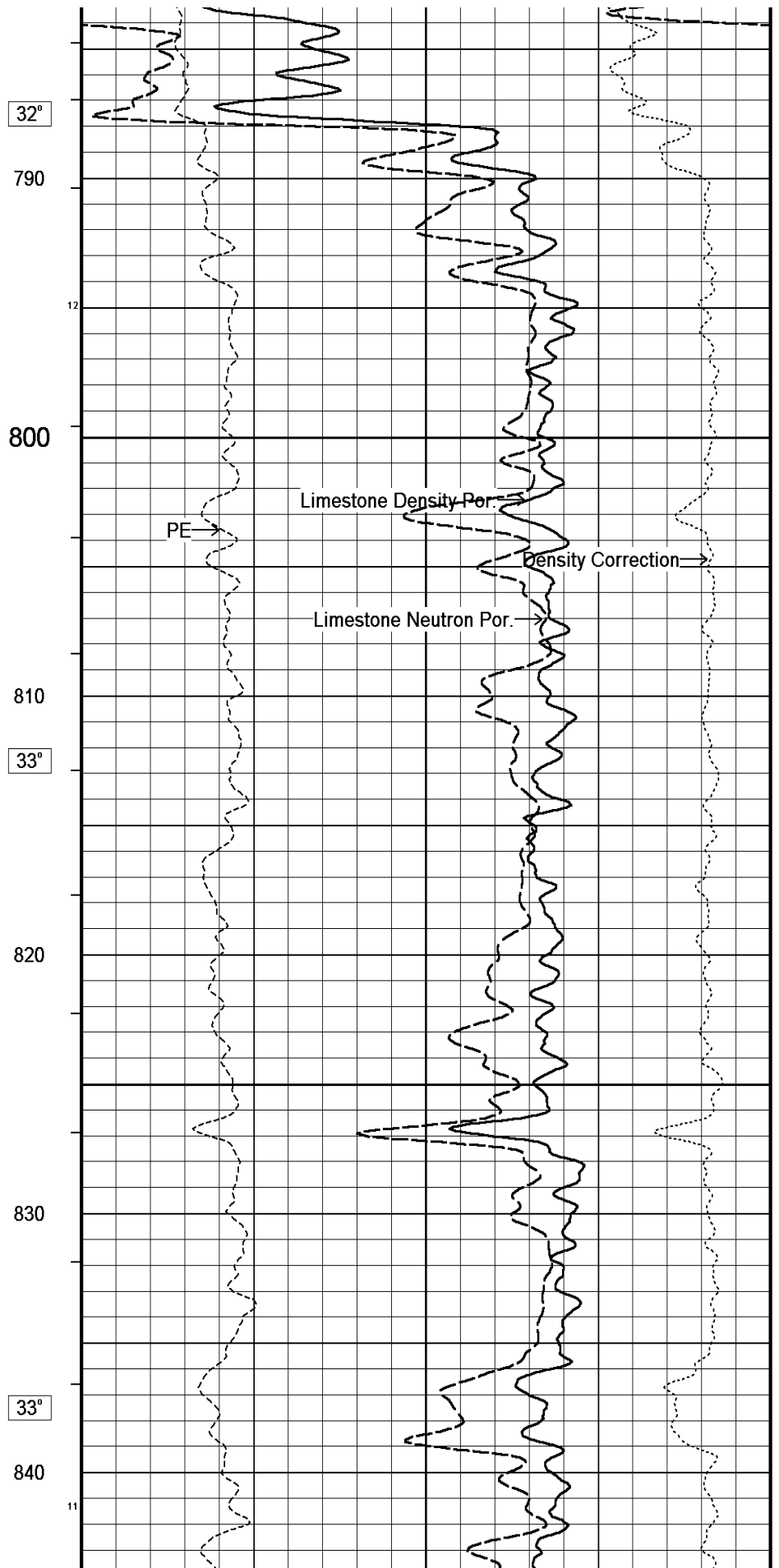
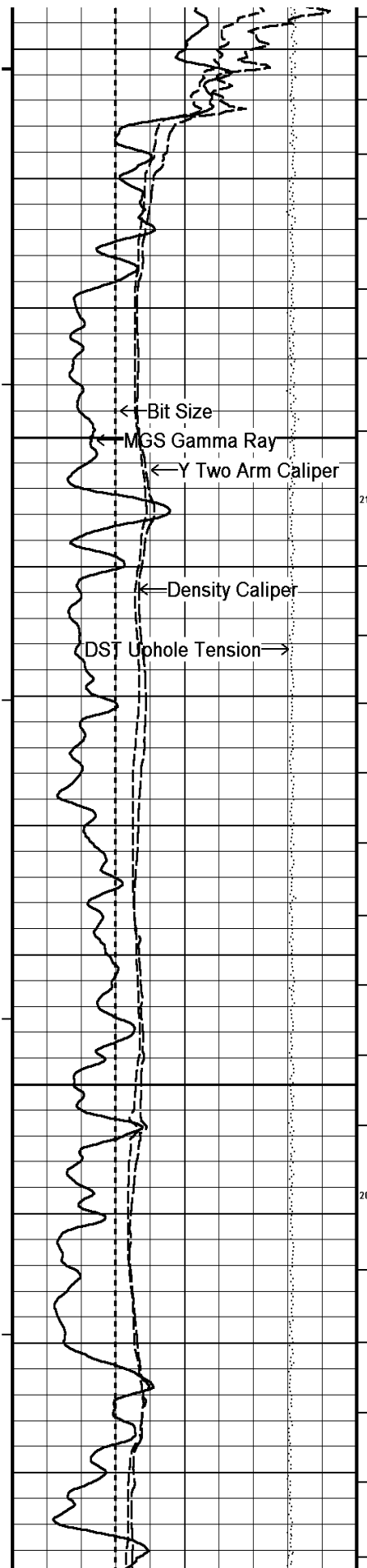


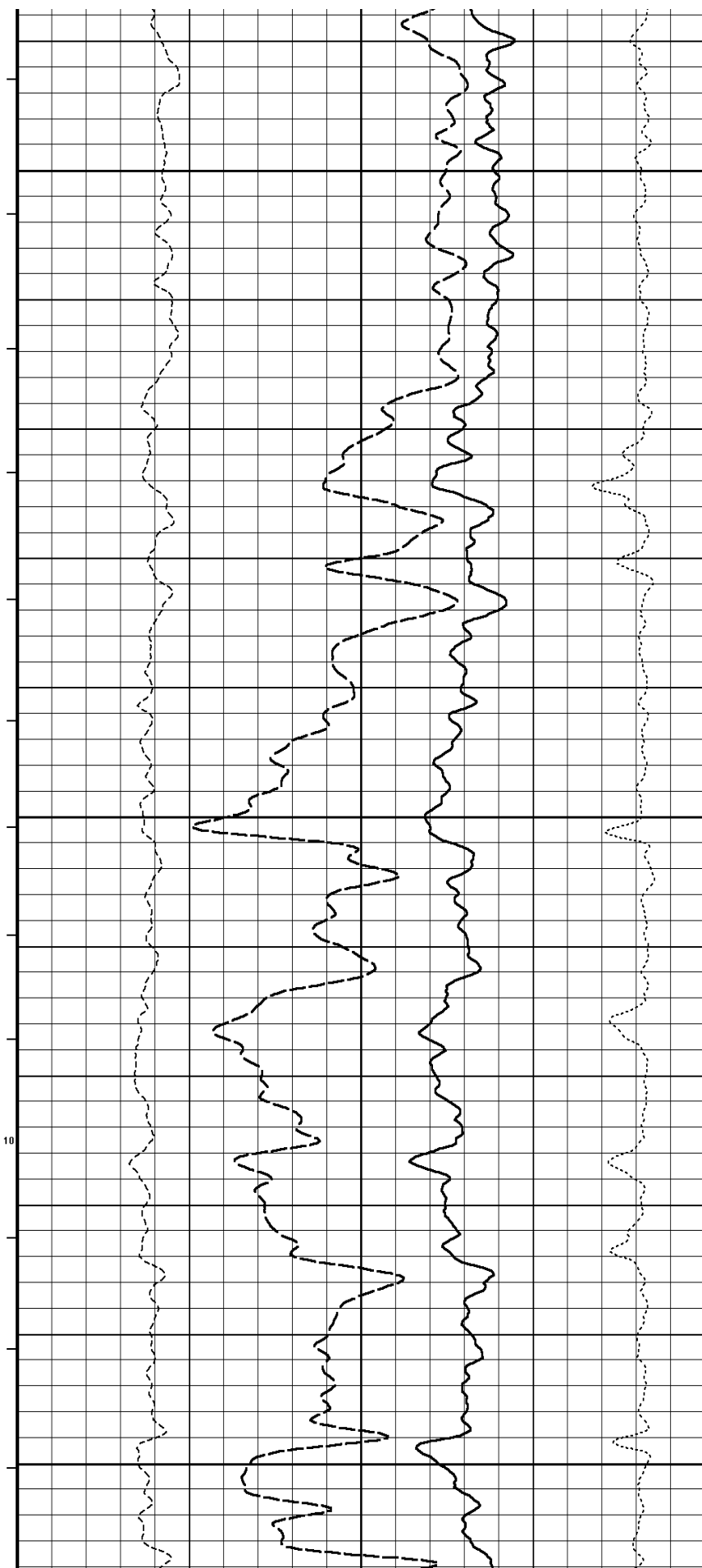
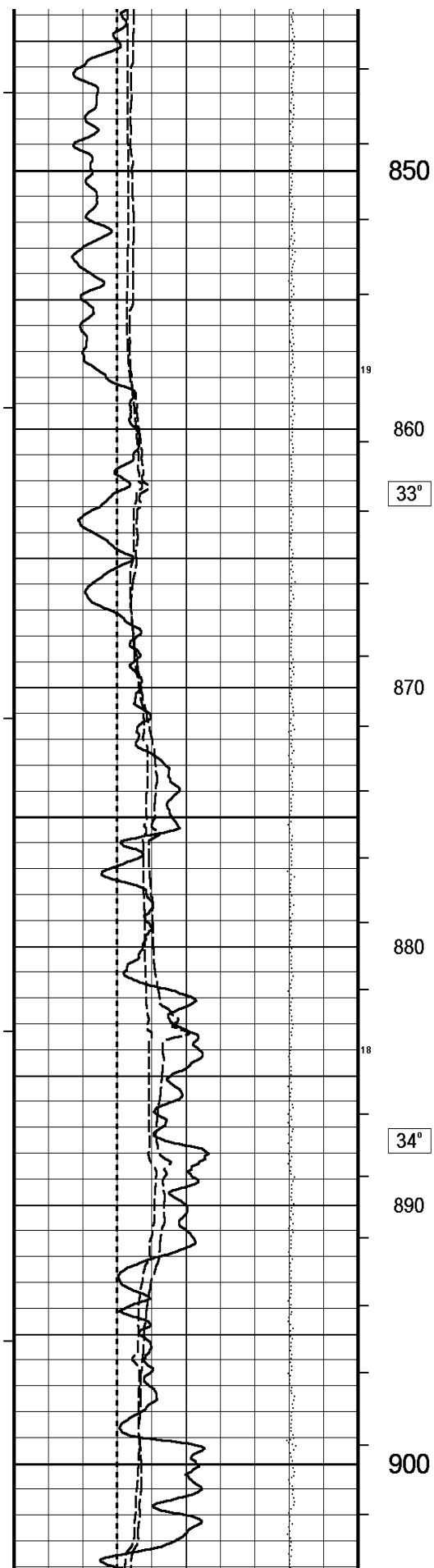


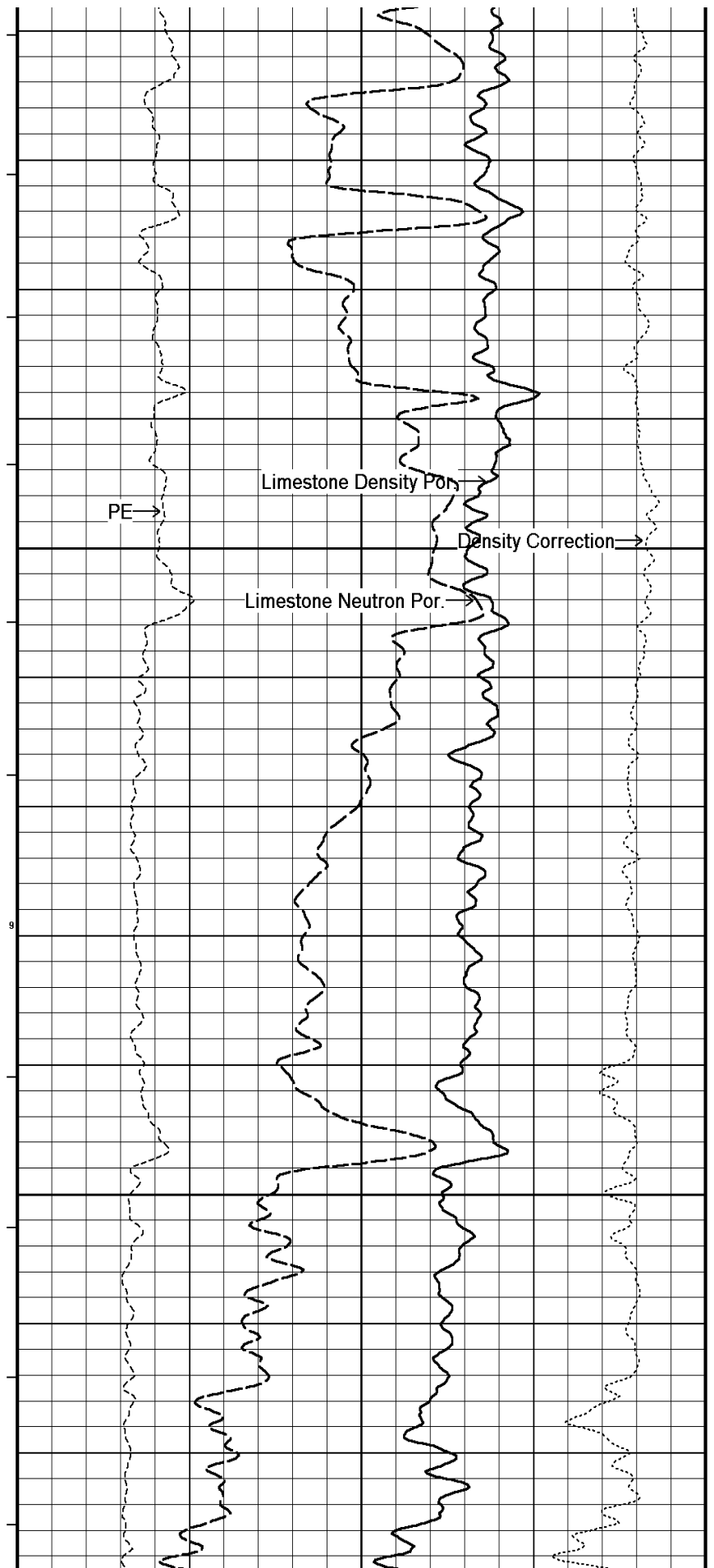
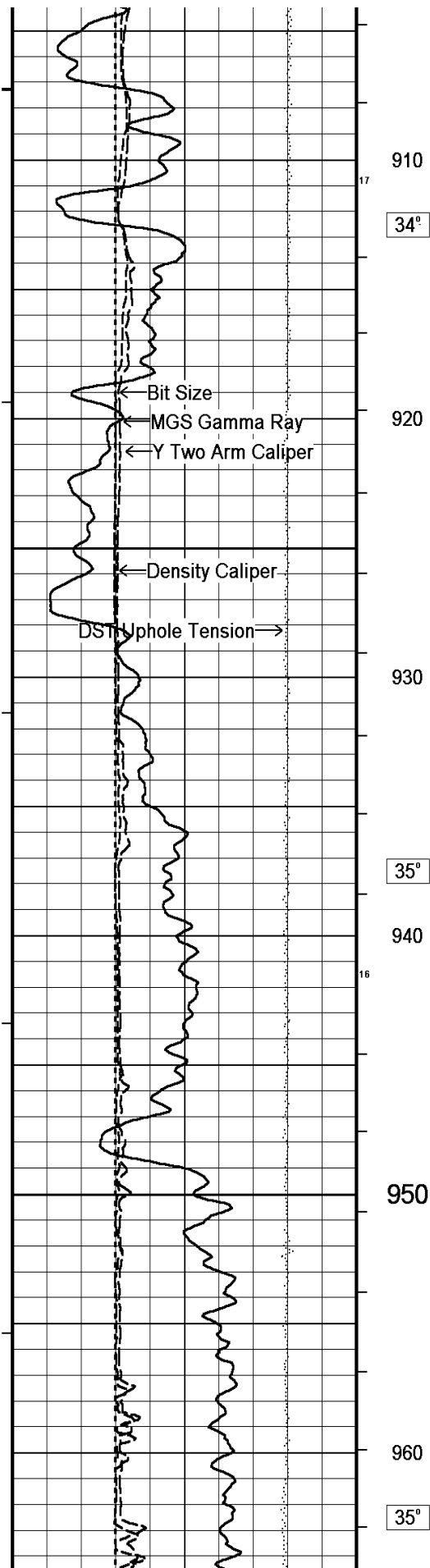


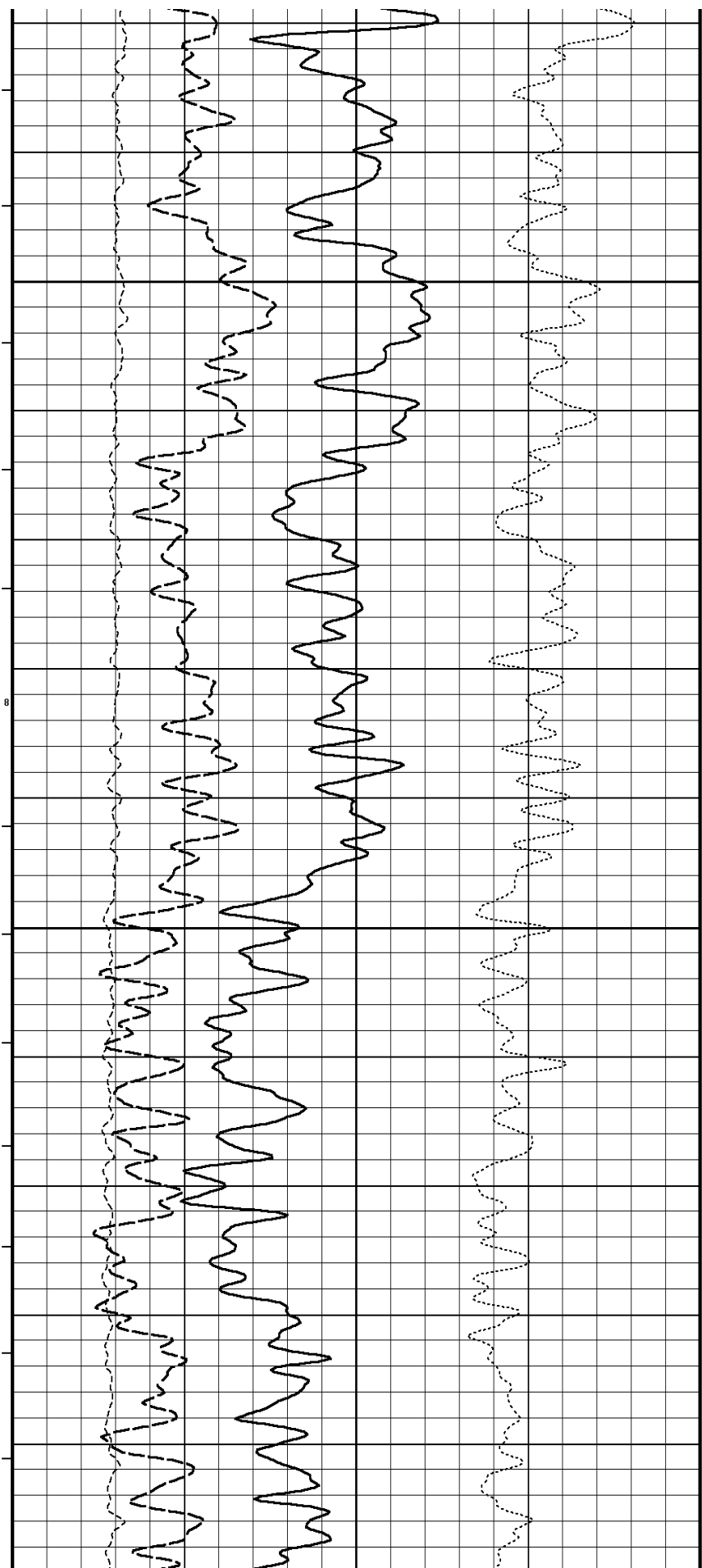
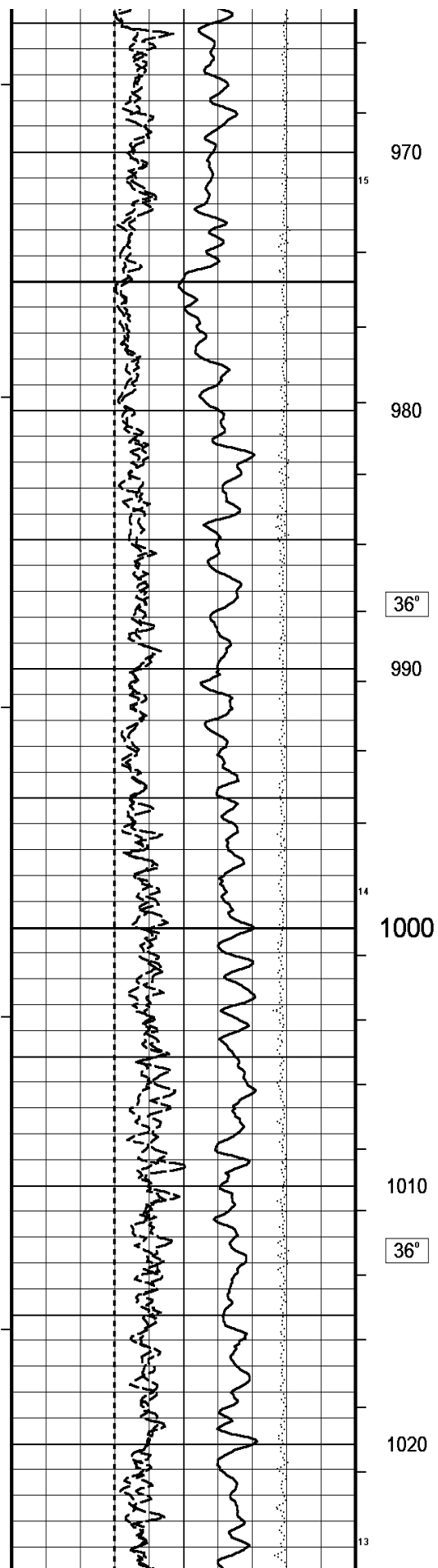


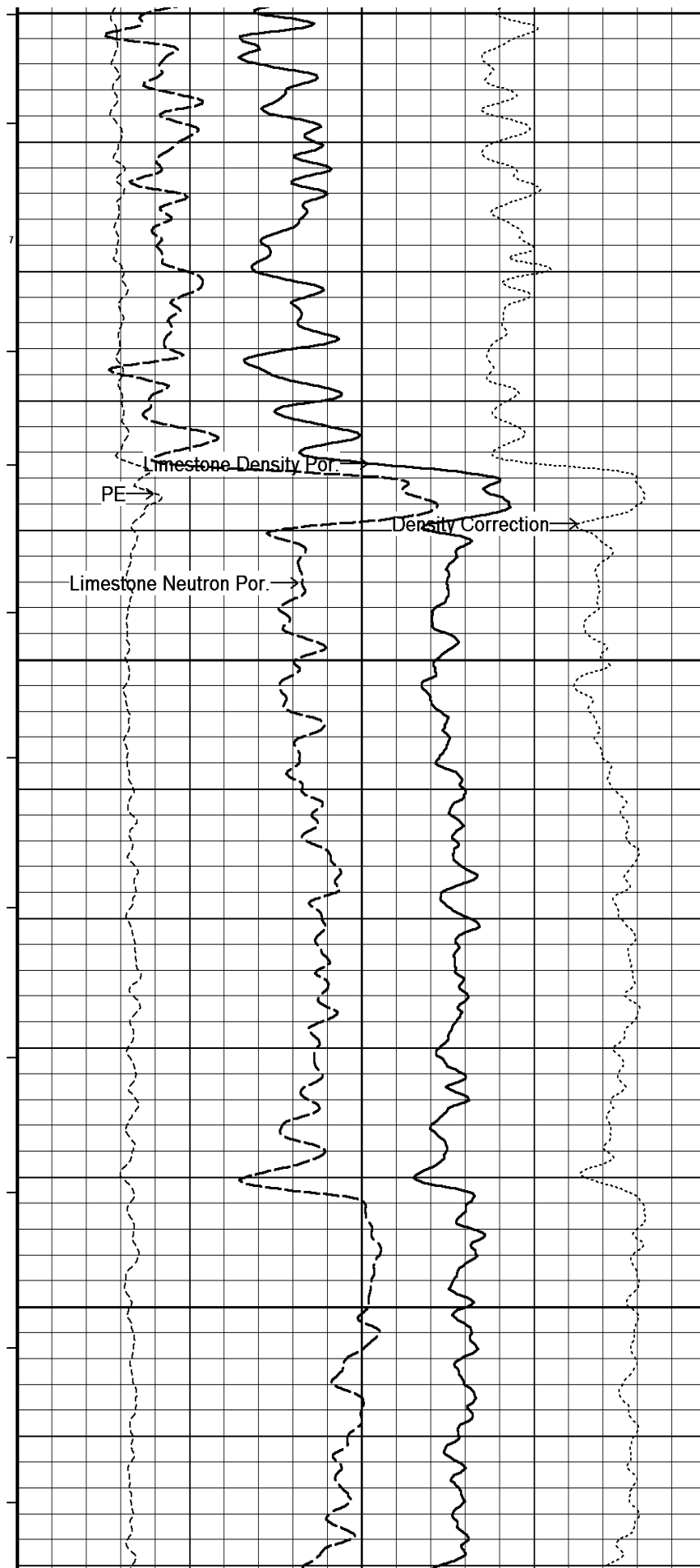
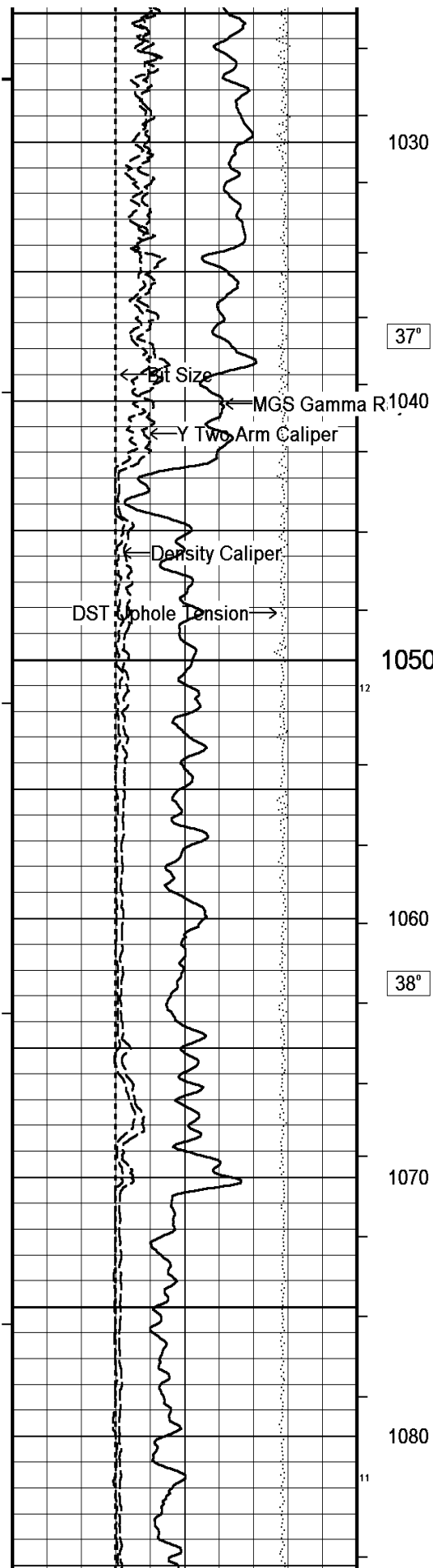


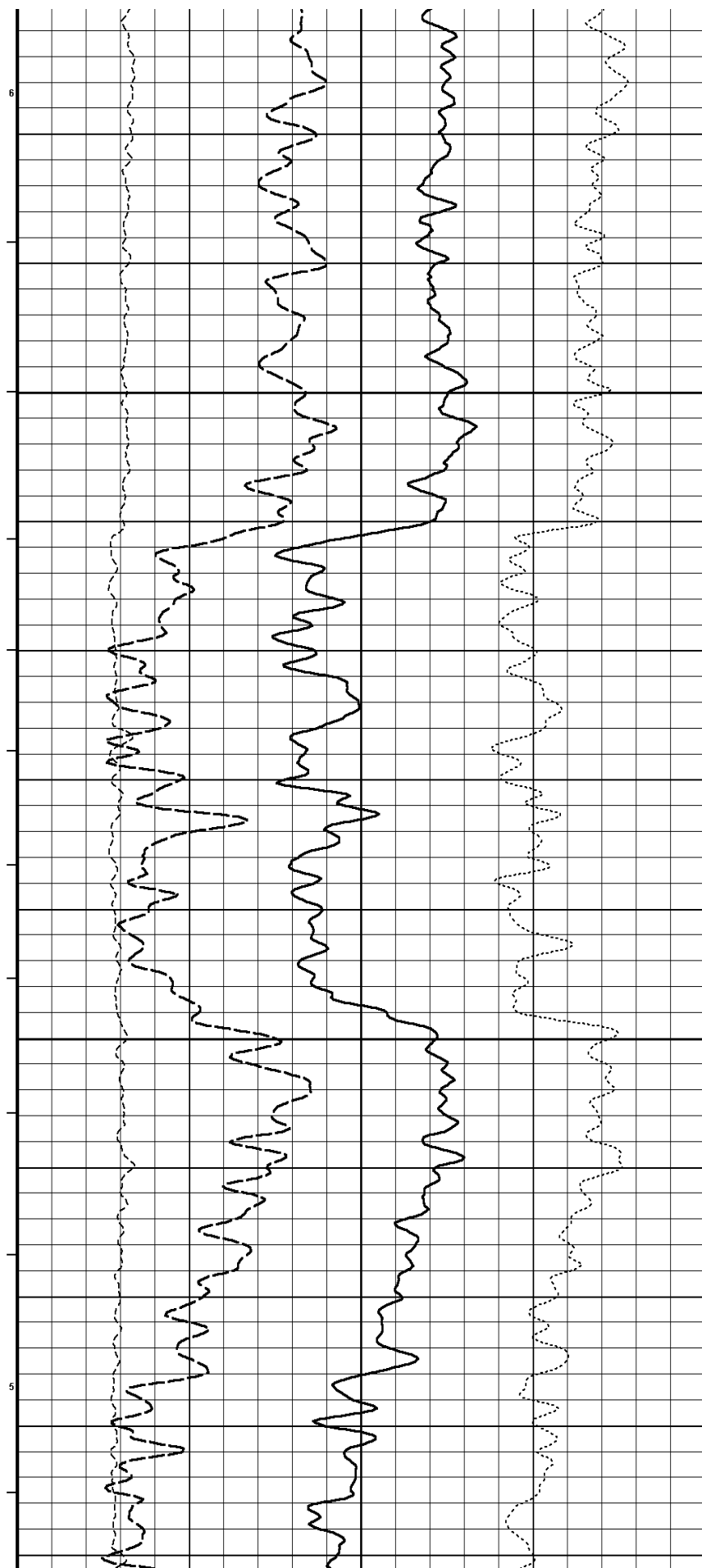
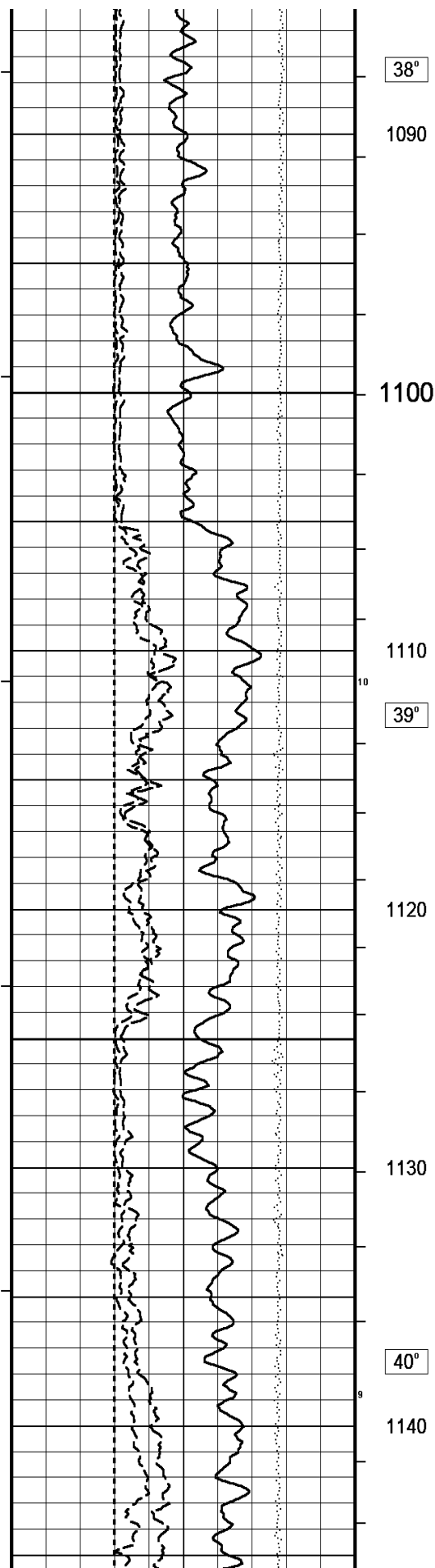


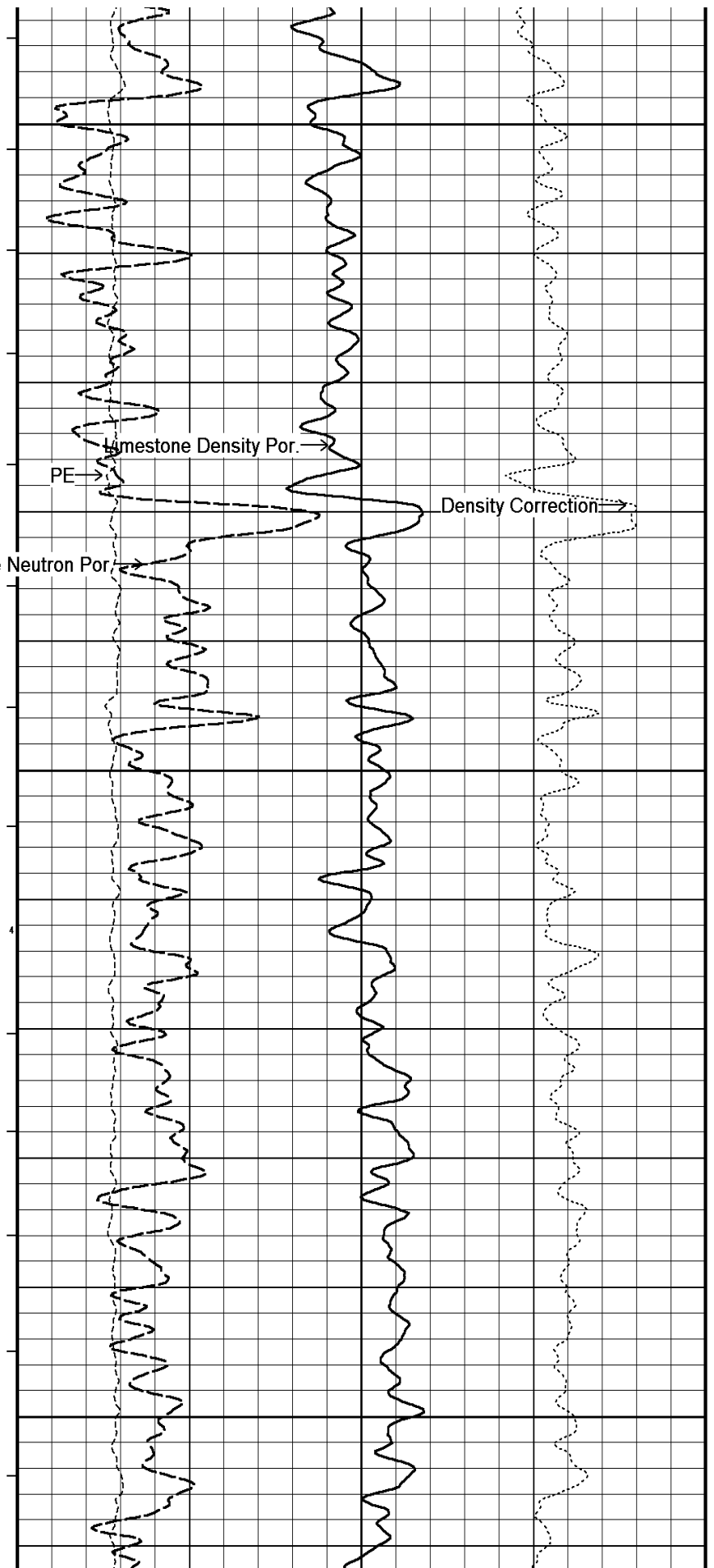
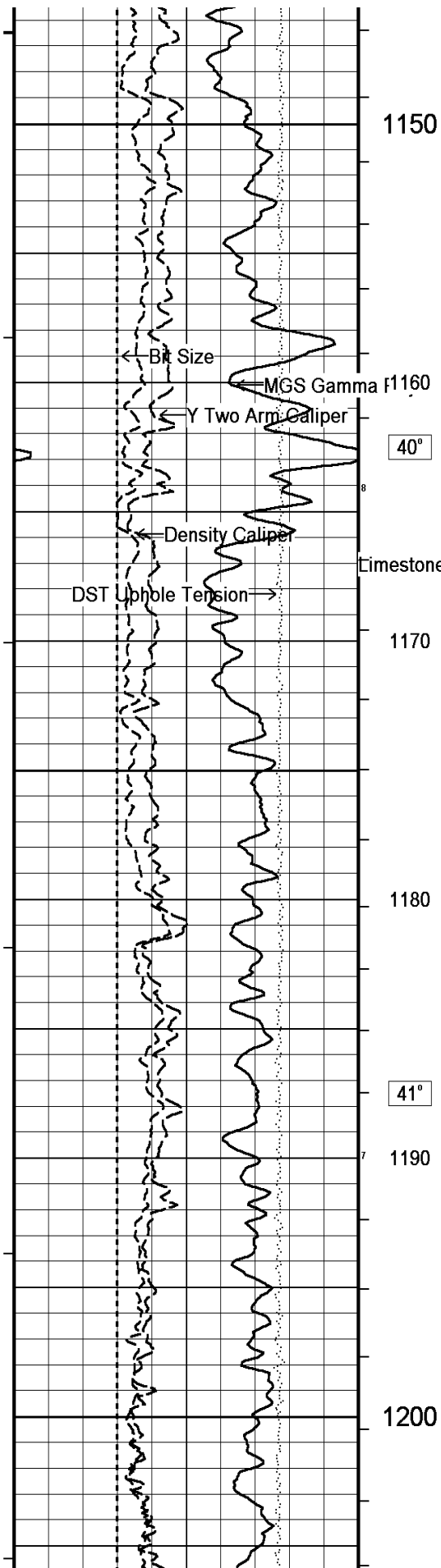


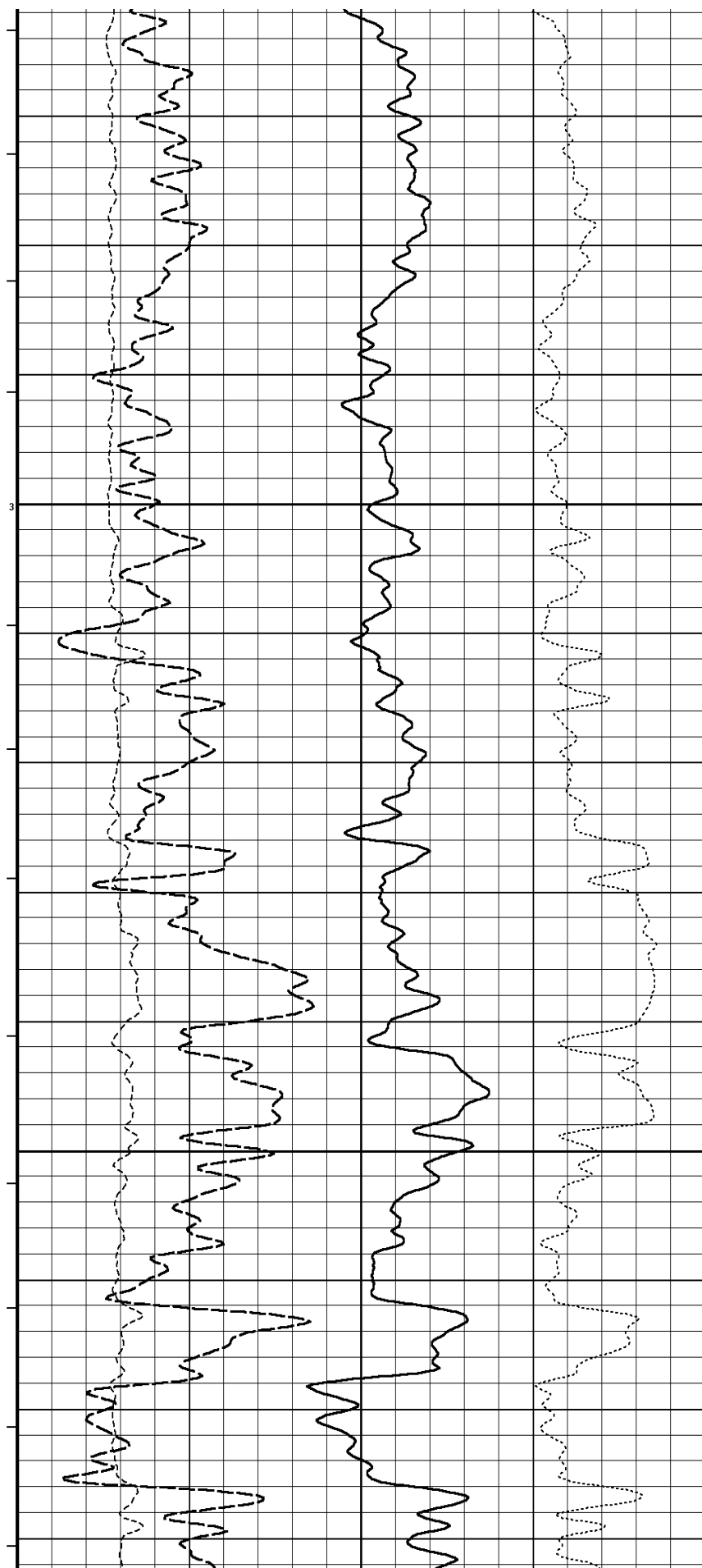
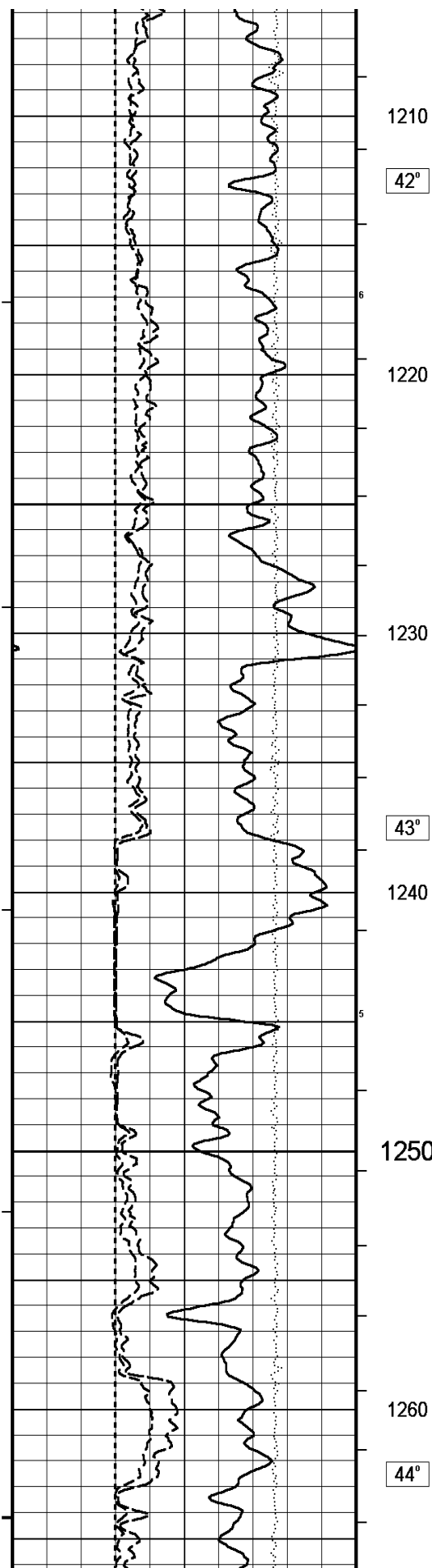


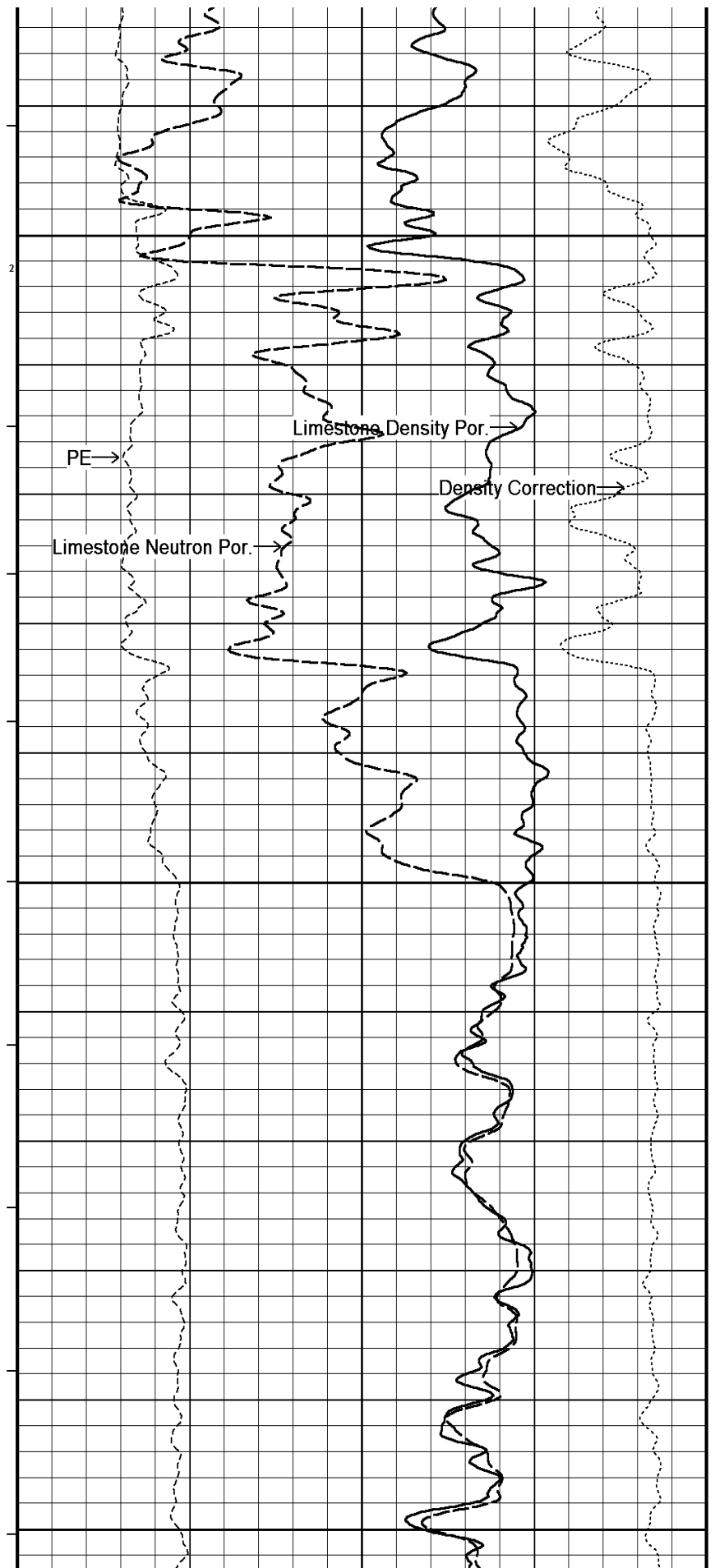
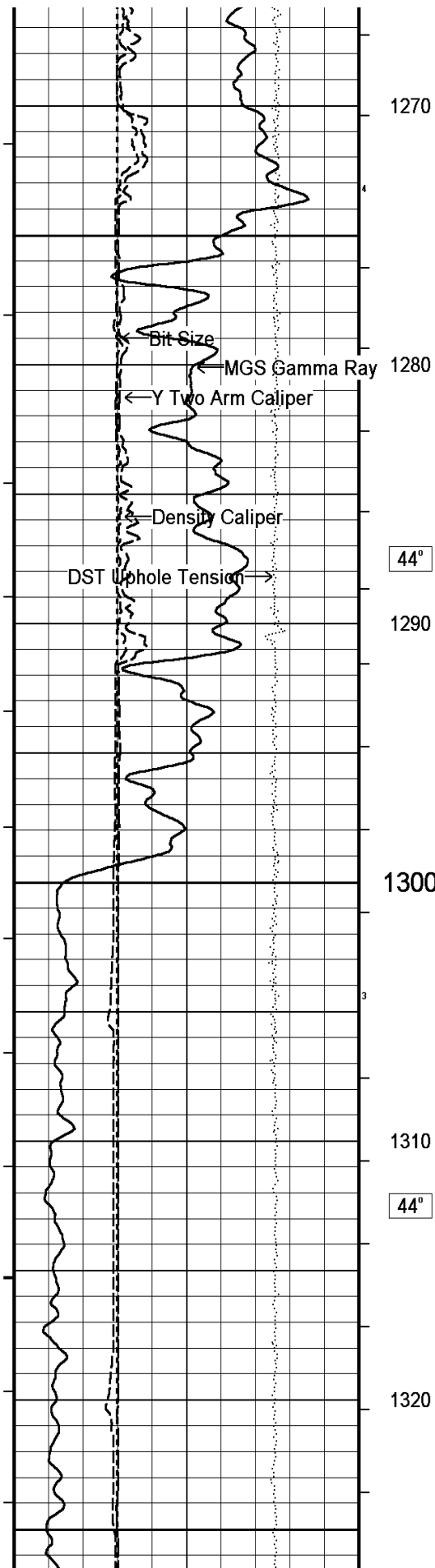


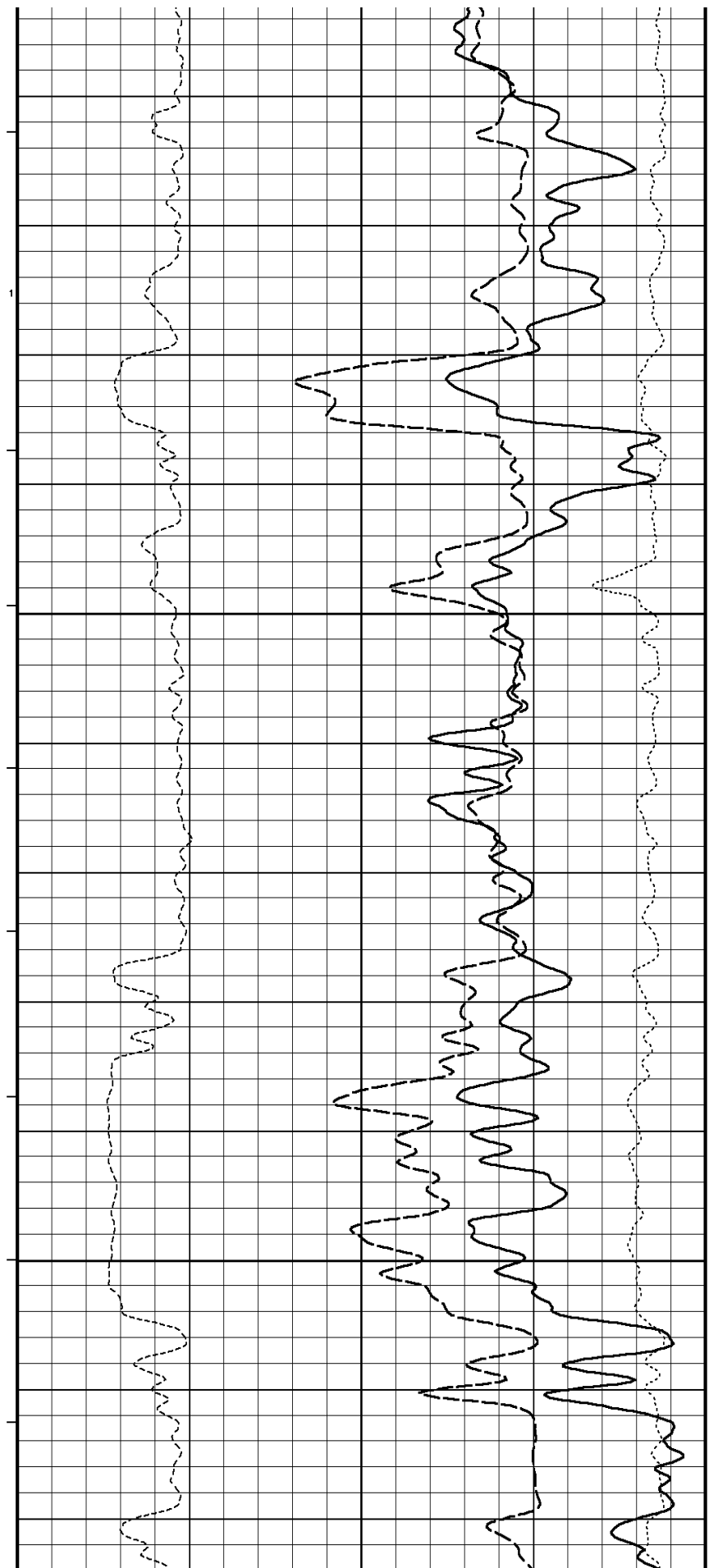
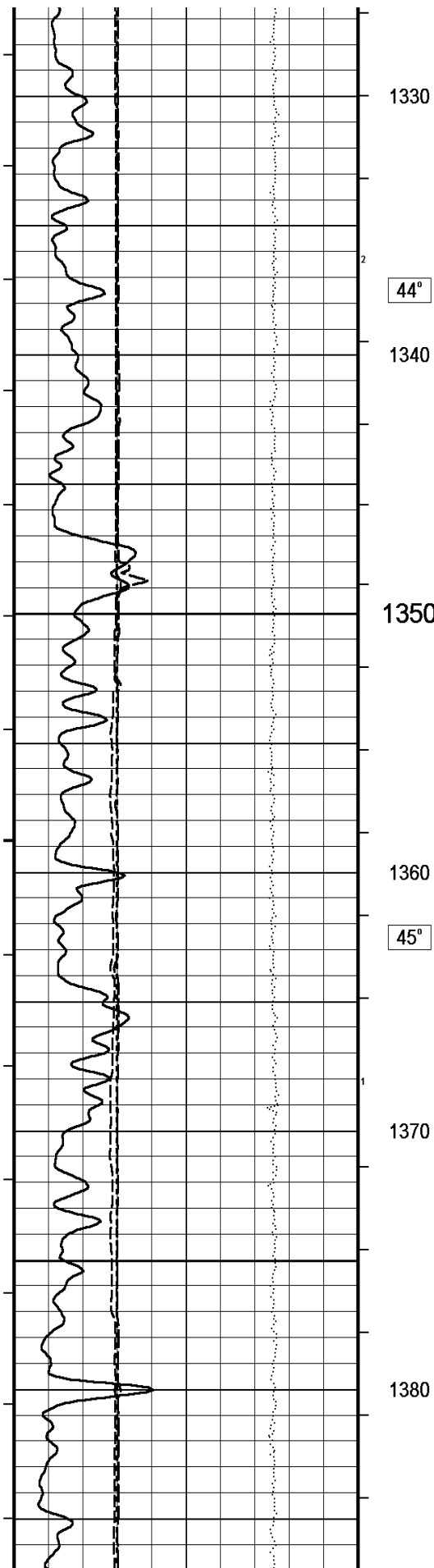


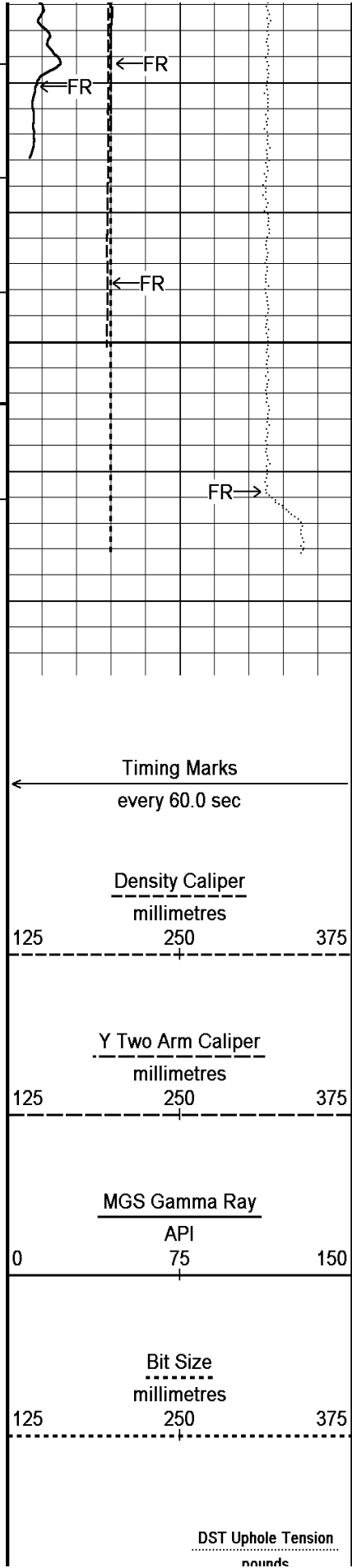












44°

1390

1400

1410

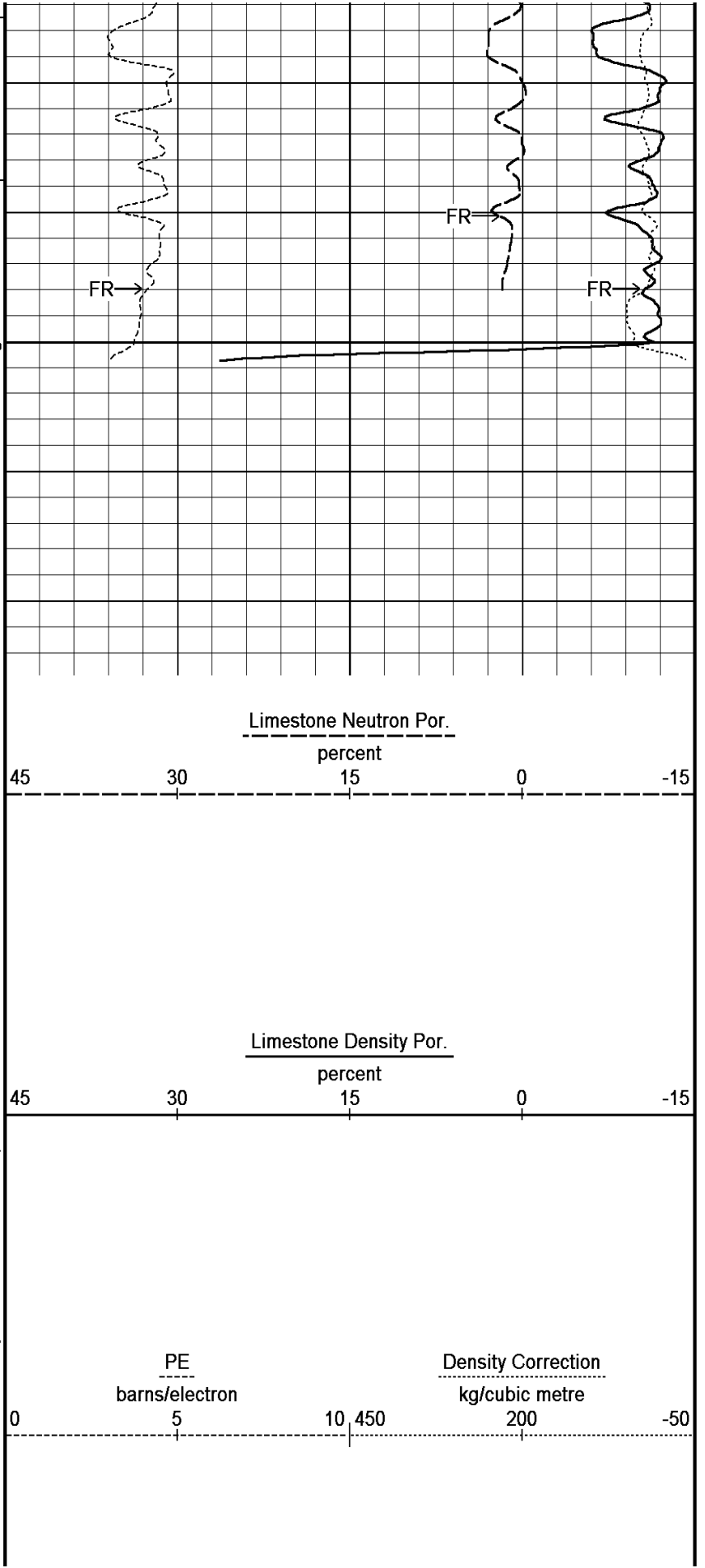
Depth in Metres

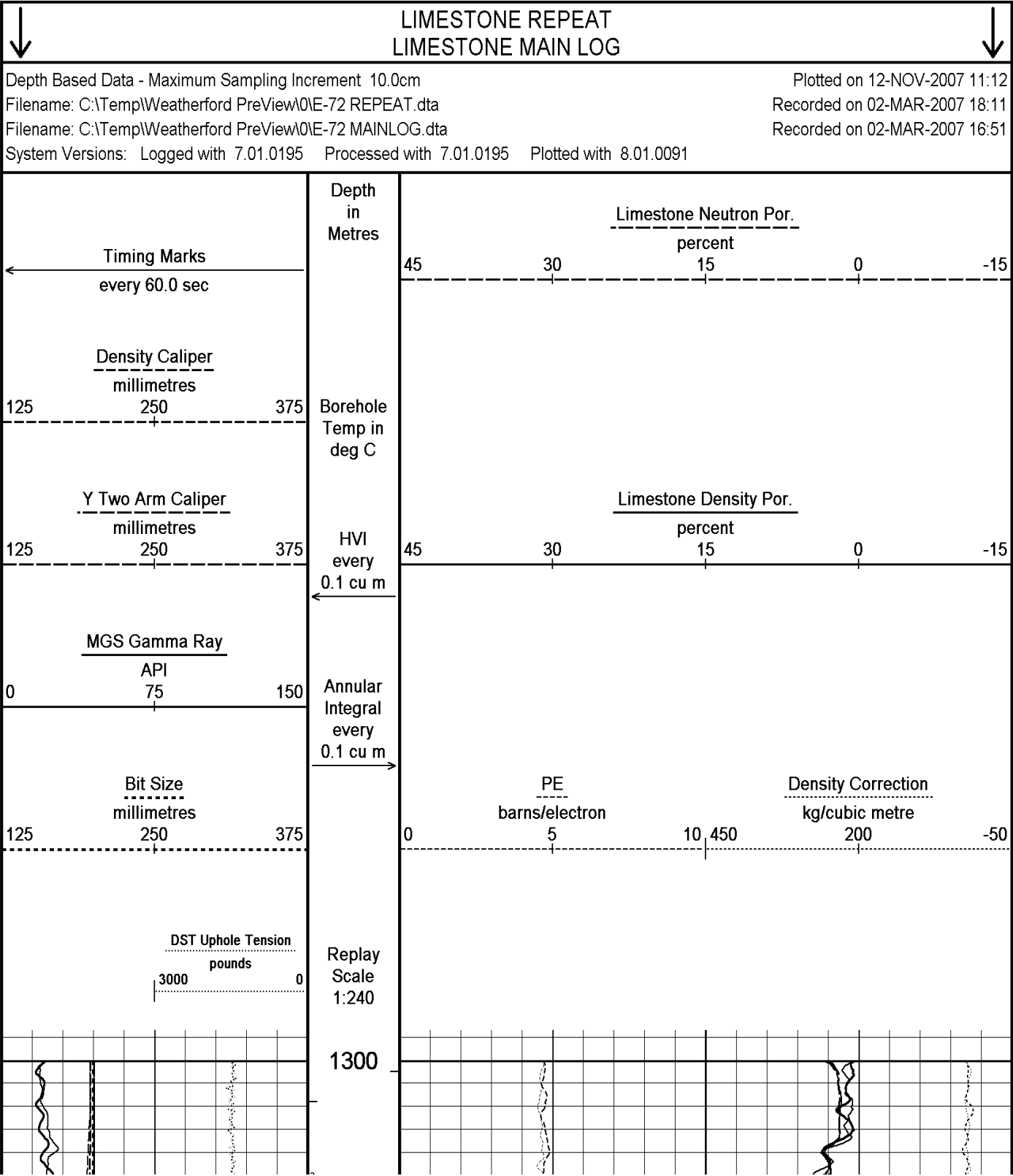
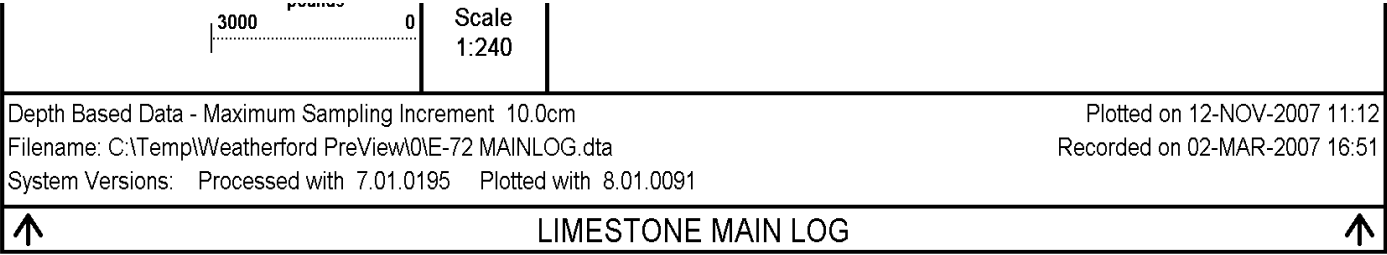
Borehole Temp in deg C

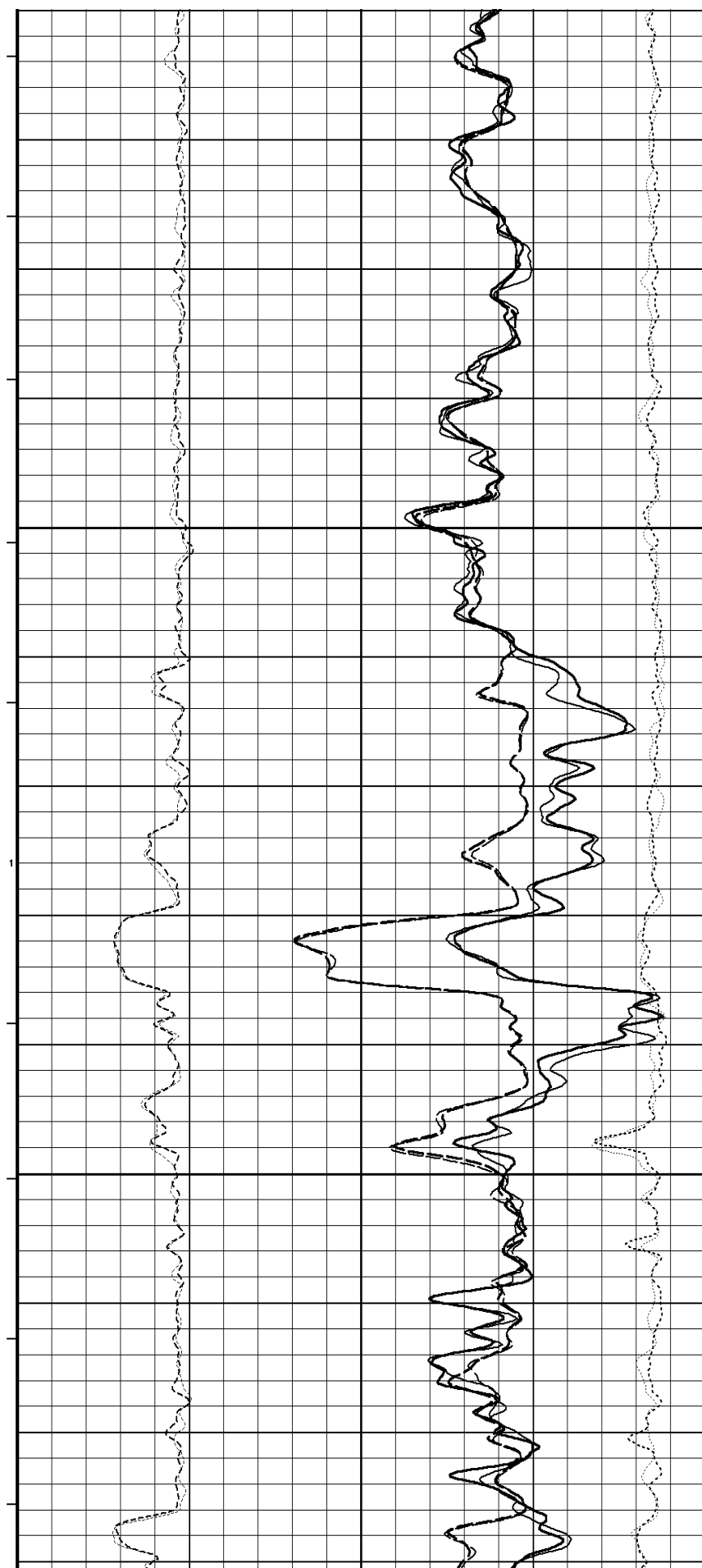
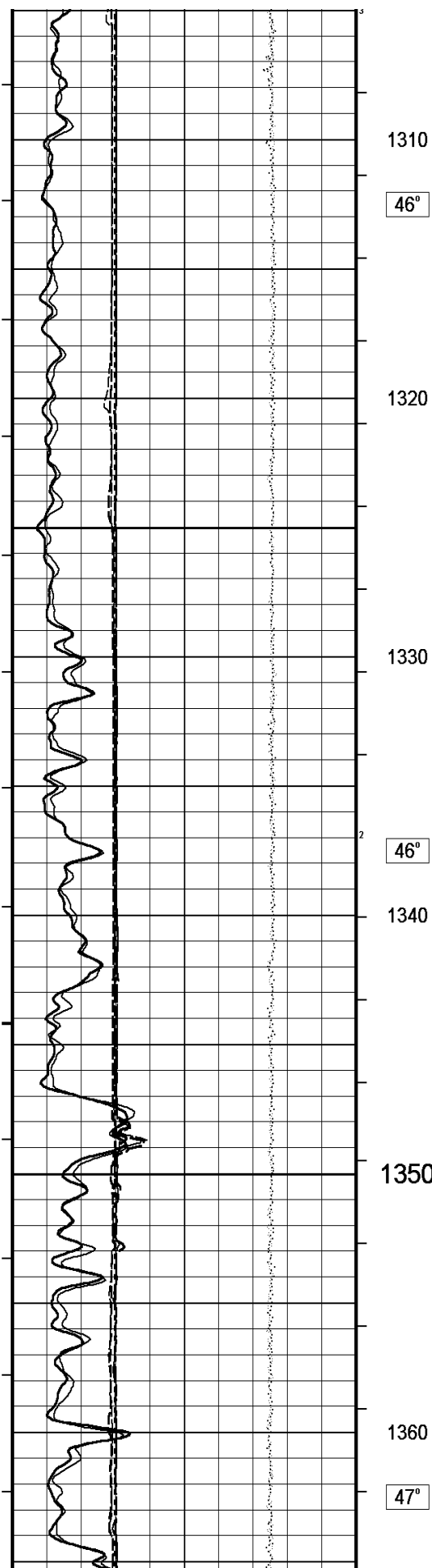
HVI every 0.1 cu m

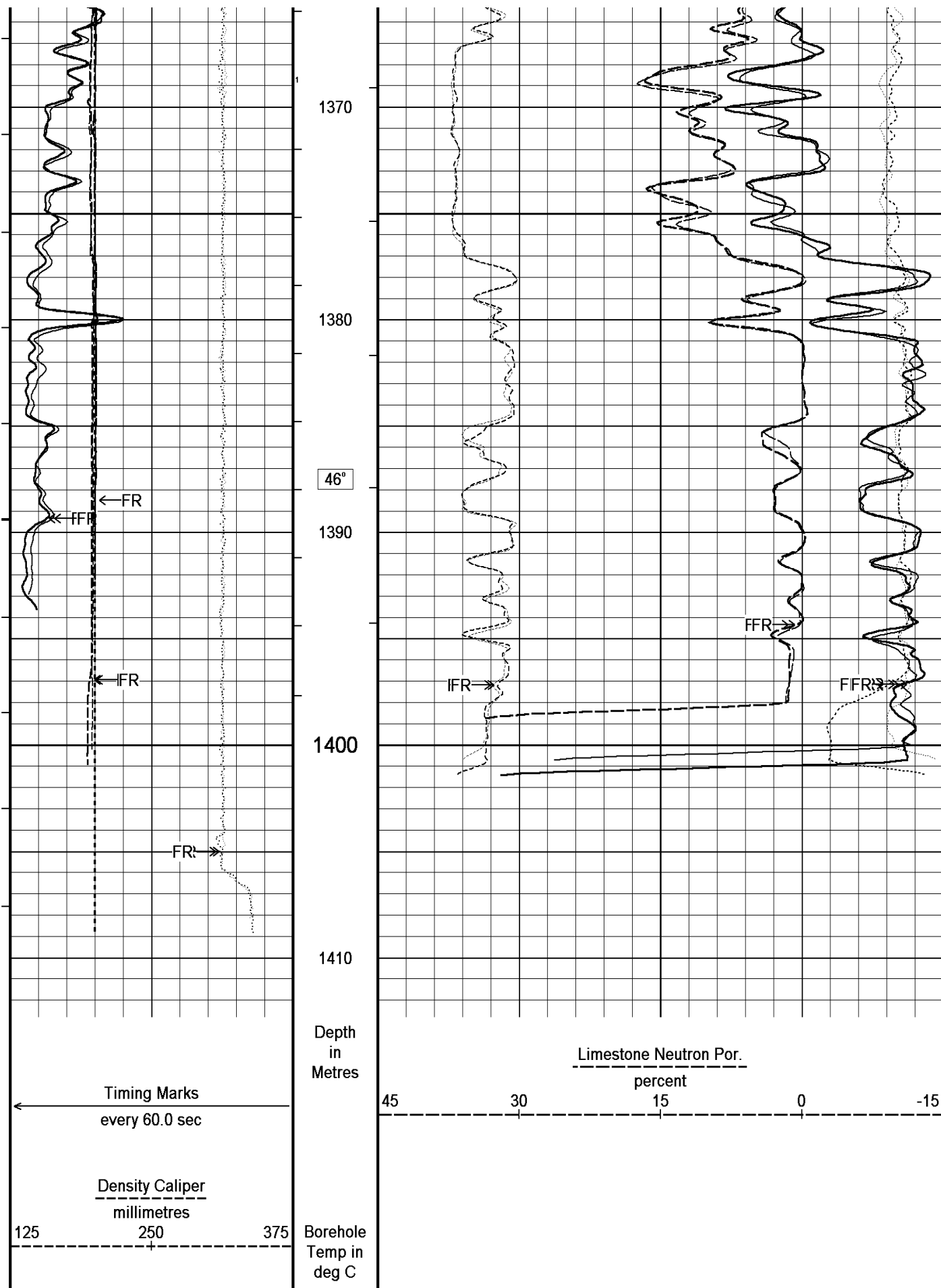
Annular Integral every 0.1 cu m

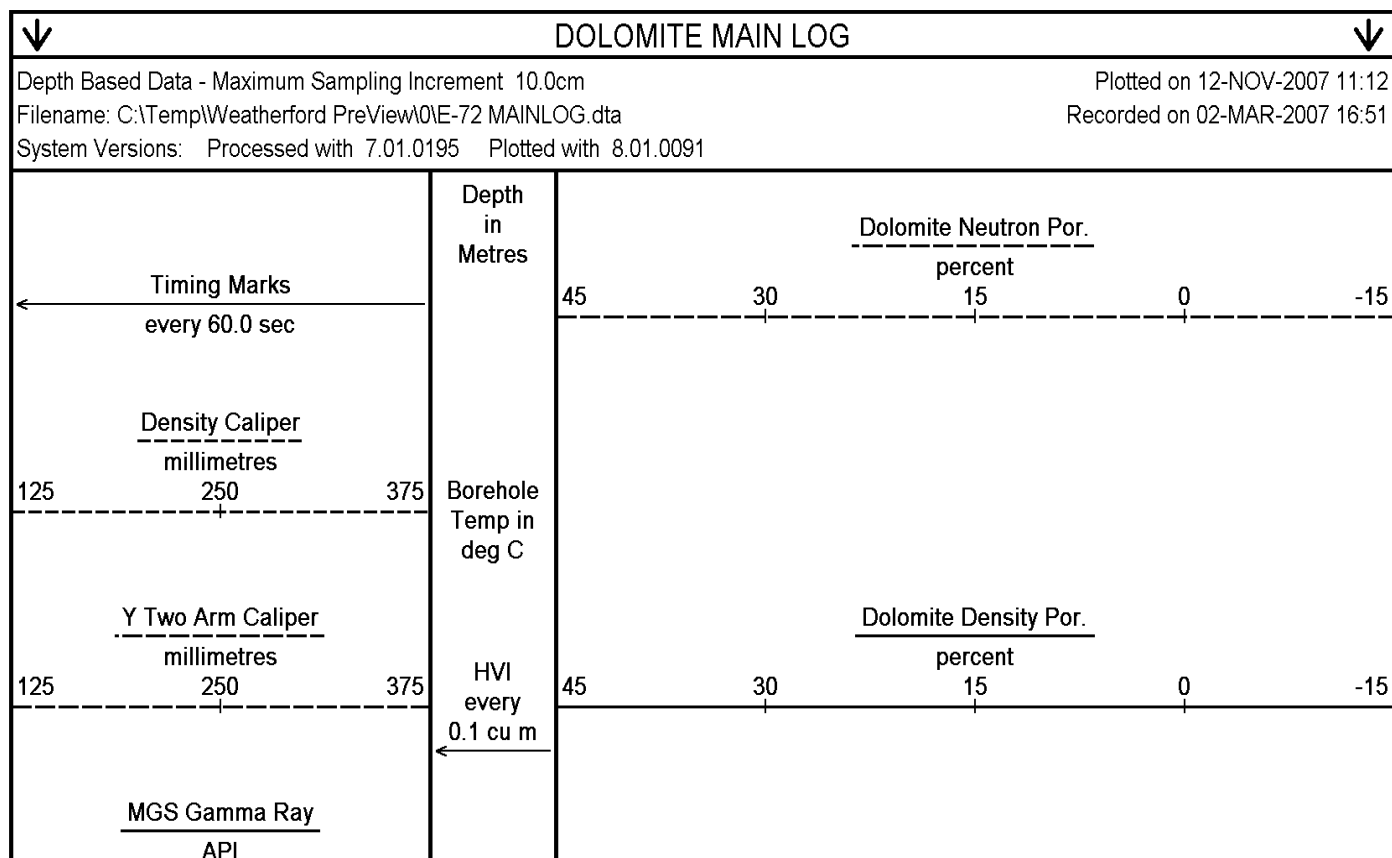
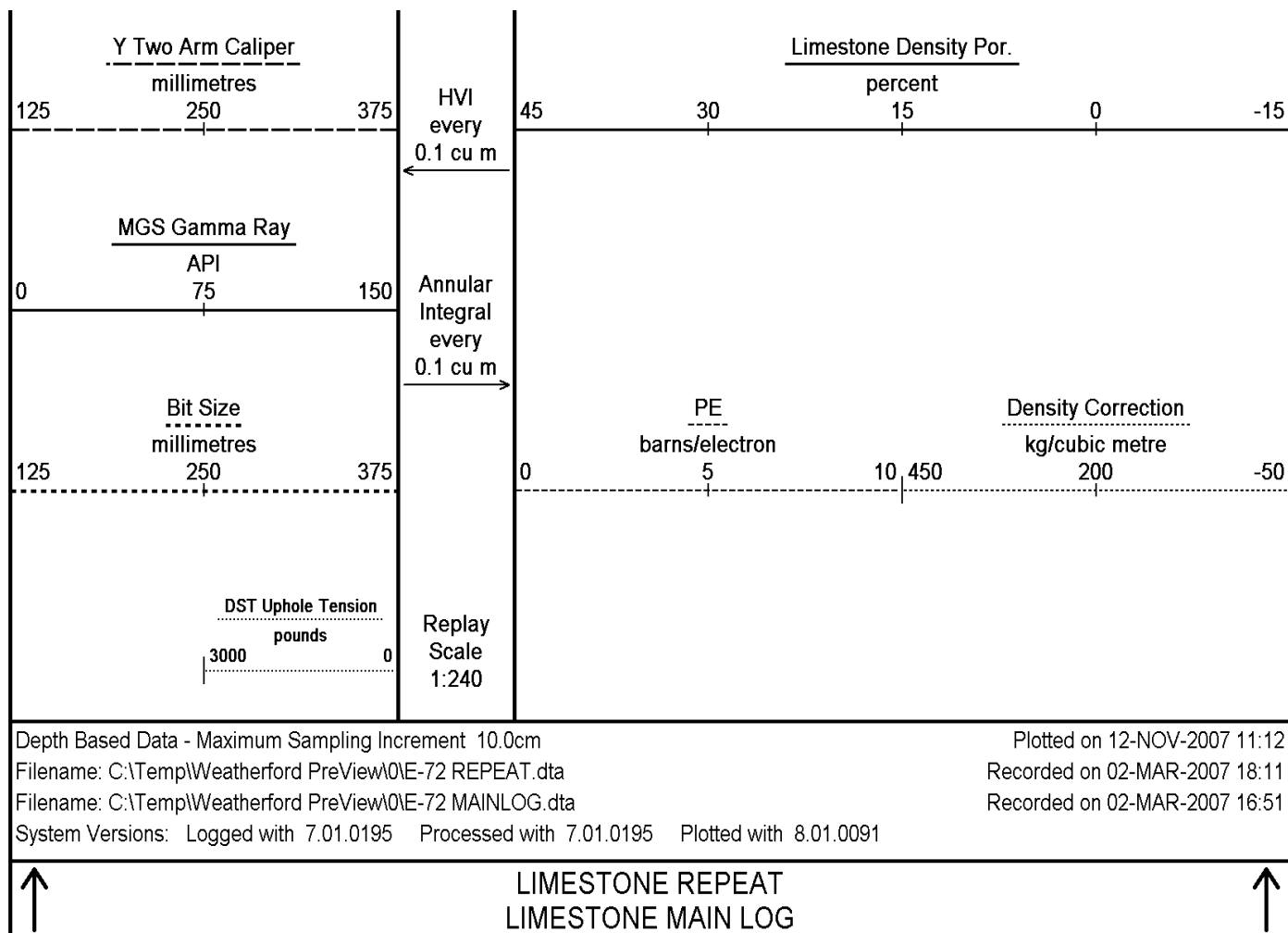
Replay

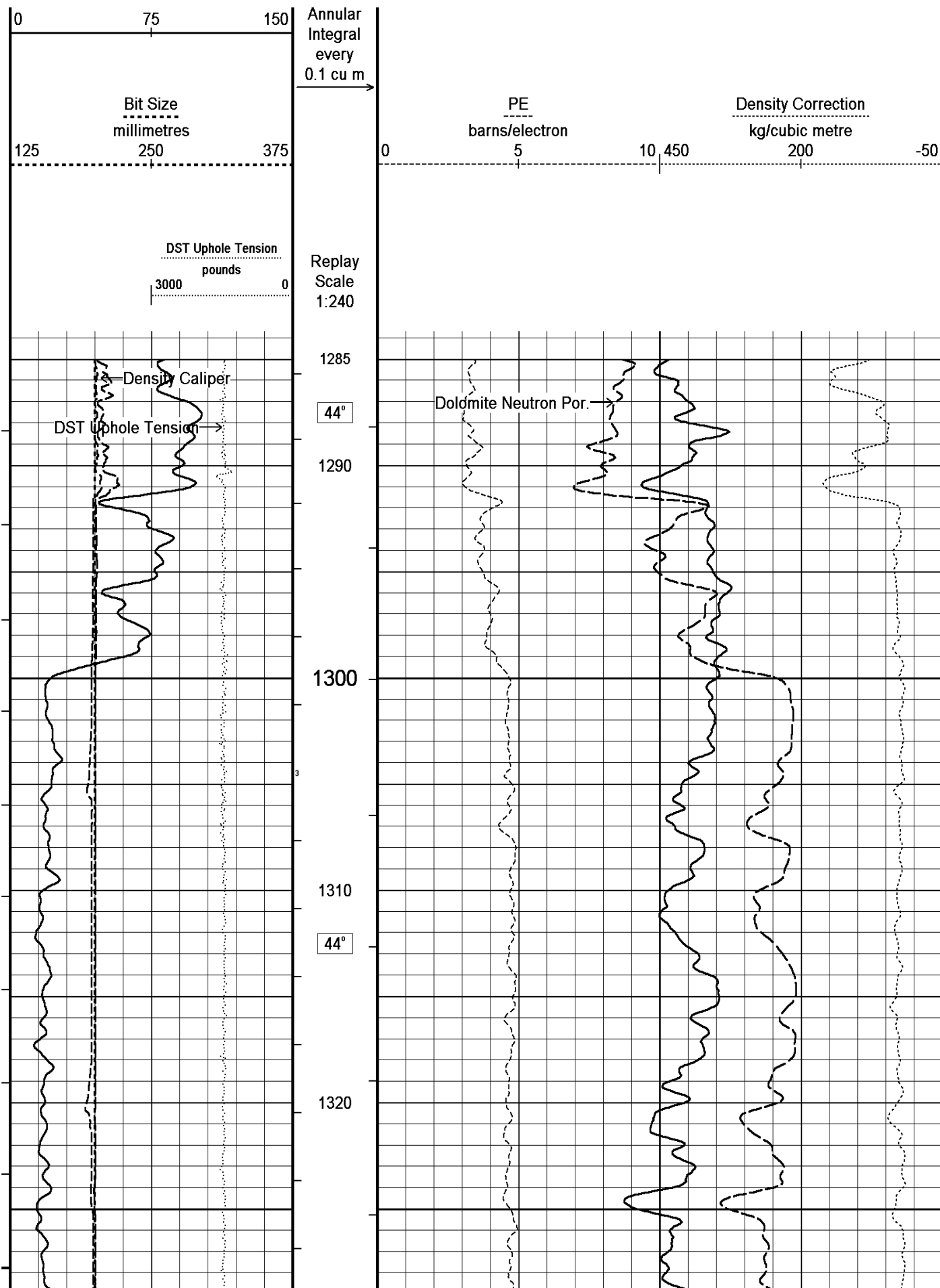


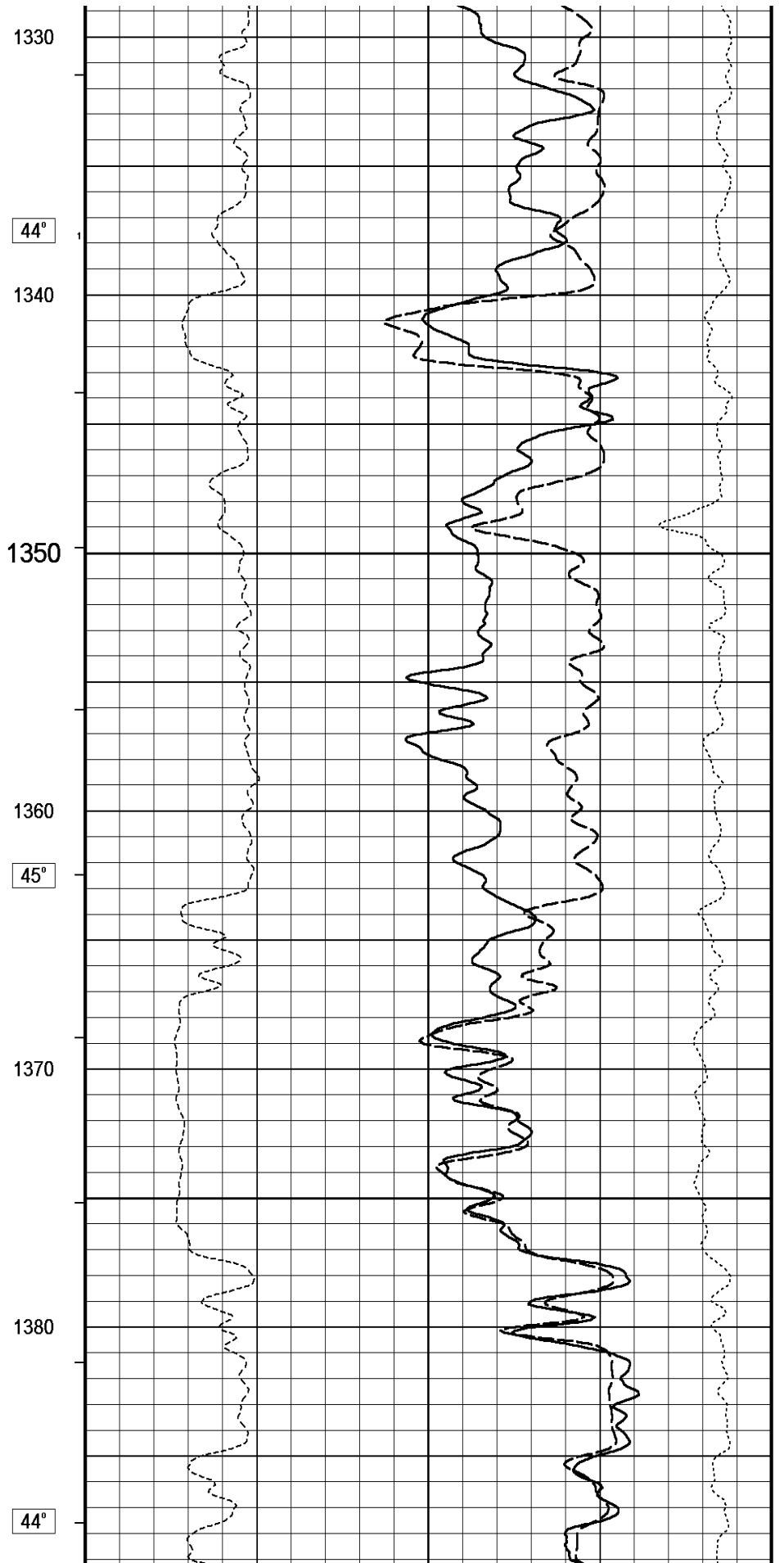
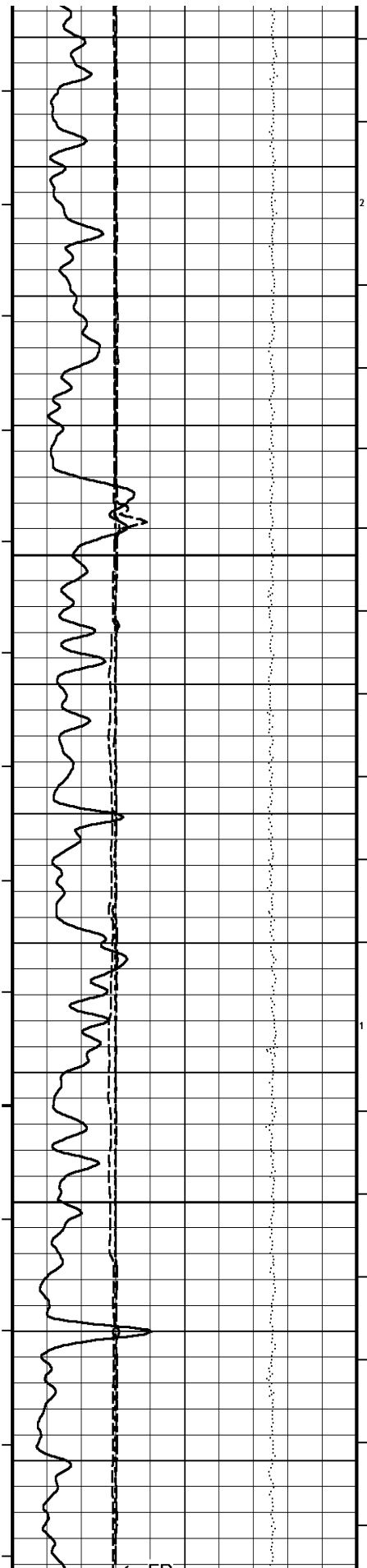


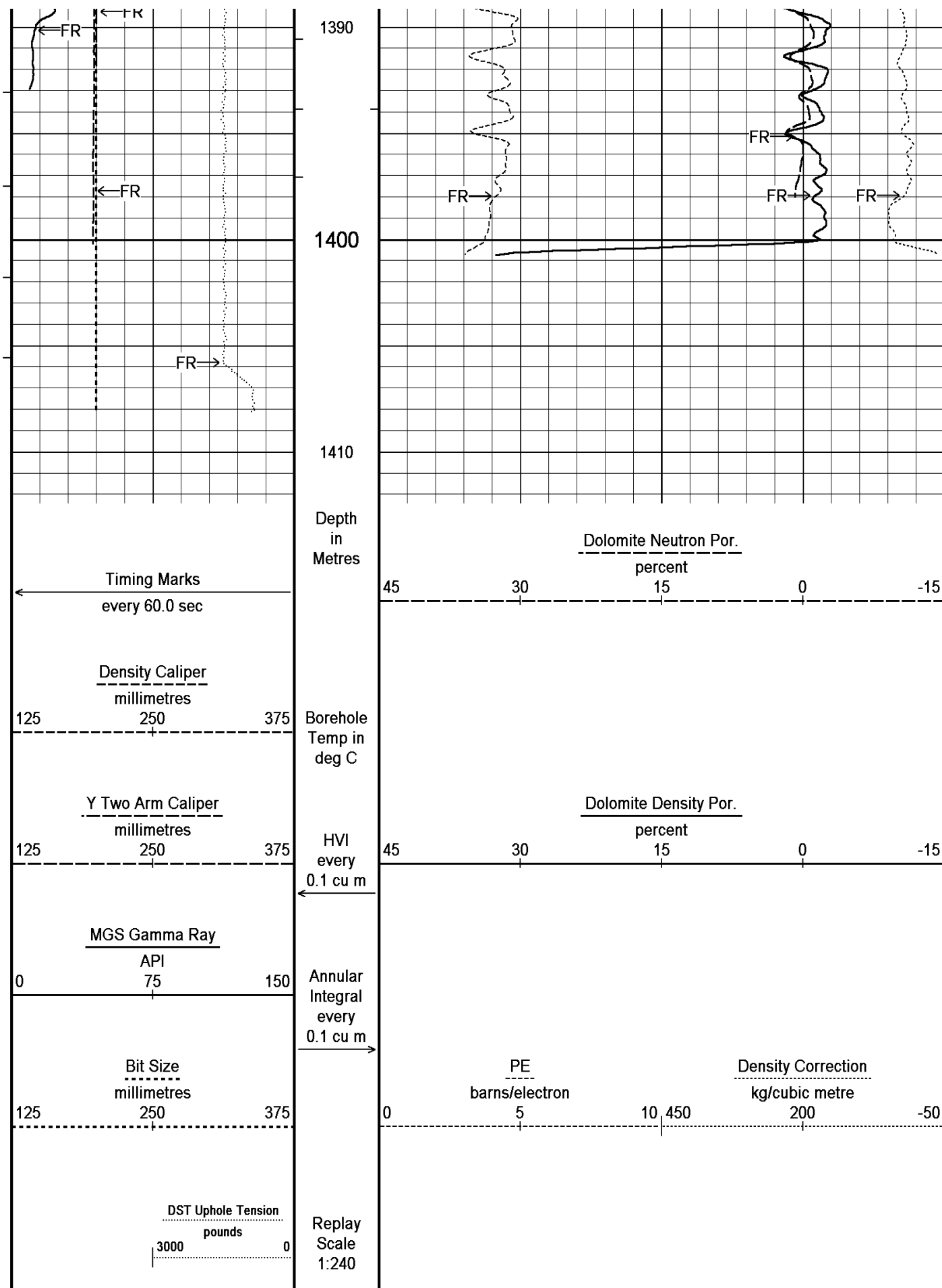












Depth Based Data - Maximum Sampling Increment 10.0cm
Filename: C:\Temp\Weatherford PreView\01E-72 MAINLOG.dta
System Versions: Processed with 7.01.0195 Plotted with 8.01.0091

Plotted on 12-NOV-2007 11:12
Recorded on 02-MAR-2007 16:51



DOLOMITE MAIN LOG

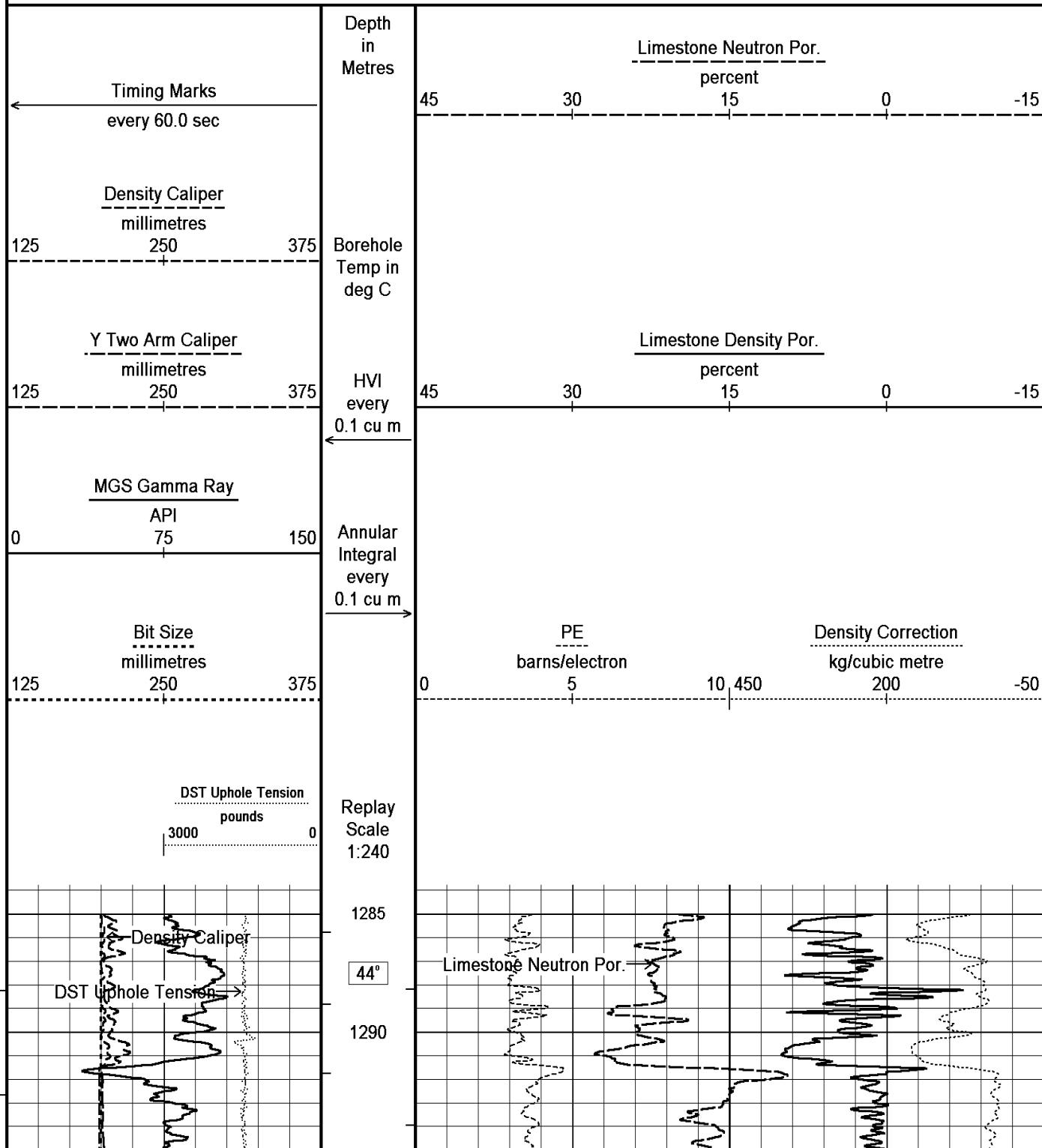


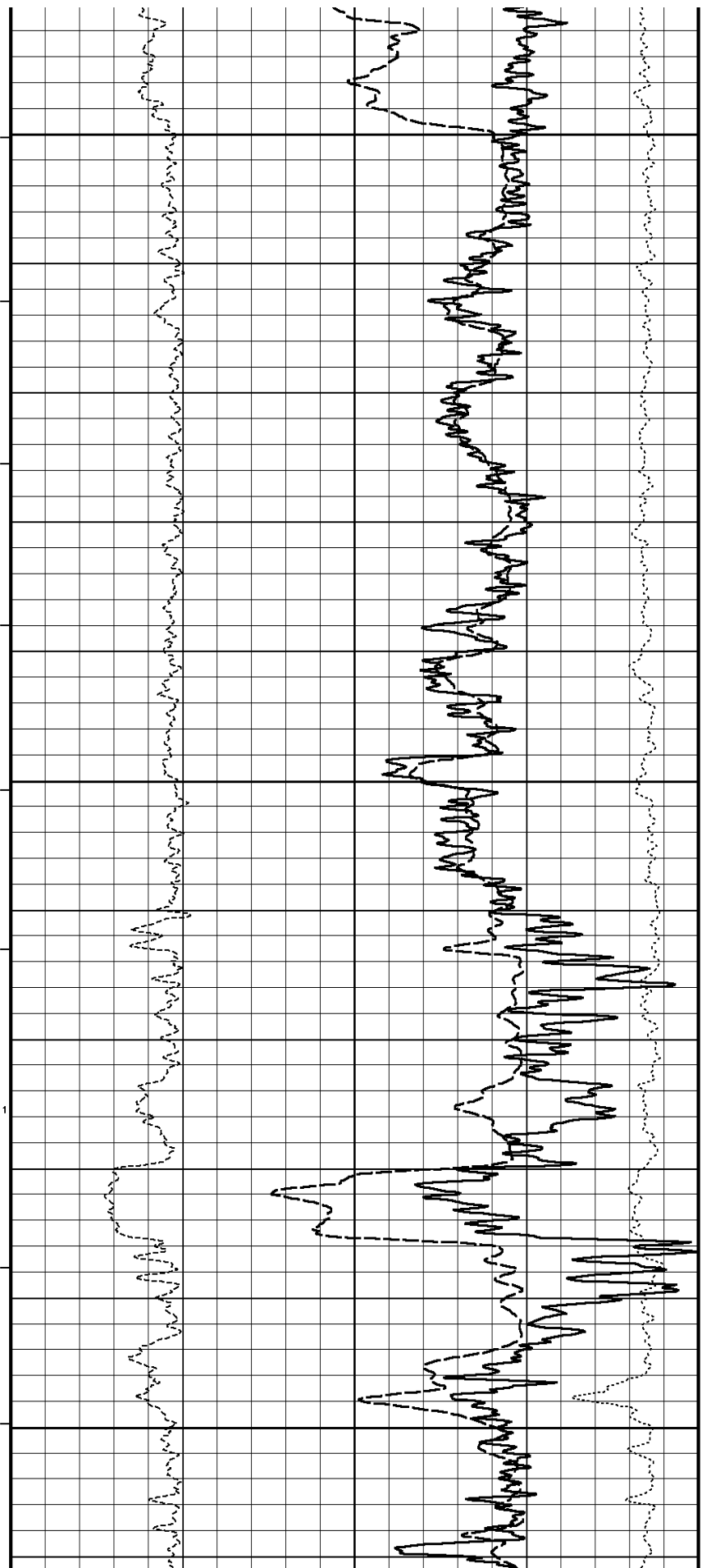
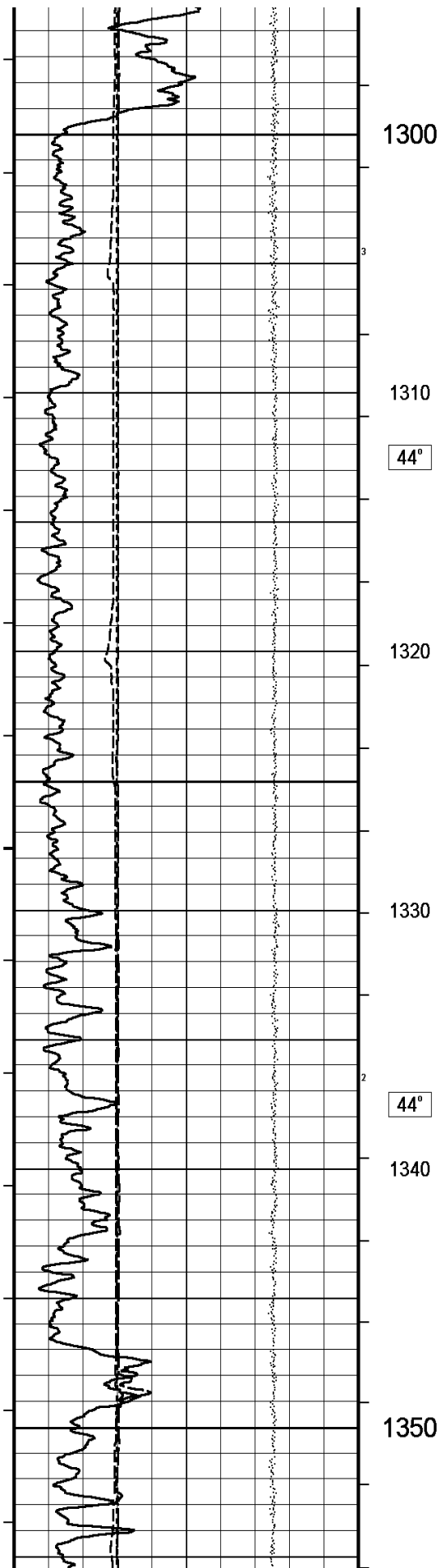
HIGH RESOLUTION 1:240 - LIMESTONE MATRIX

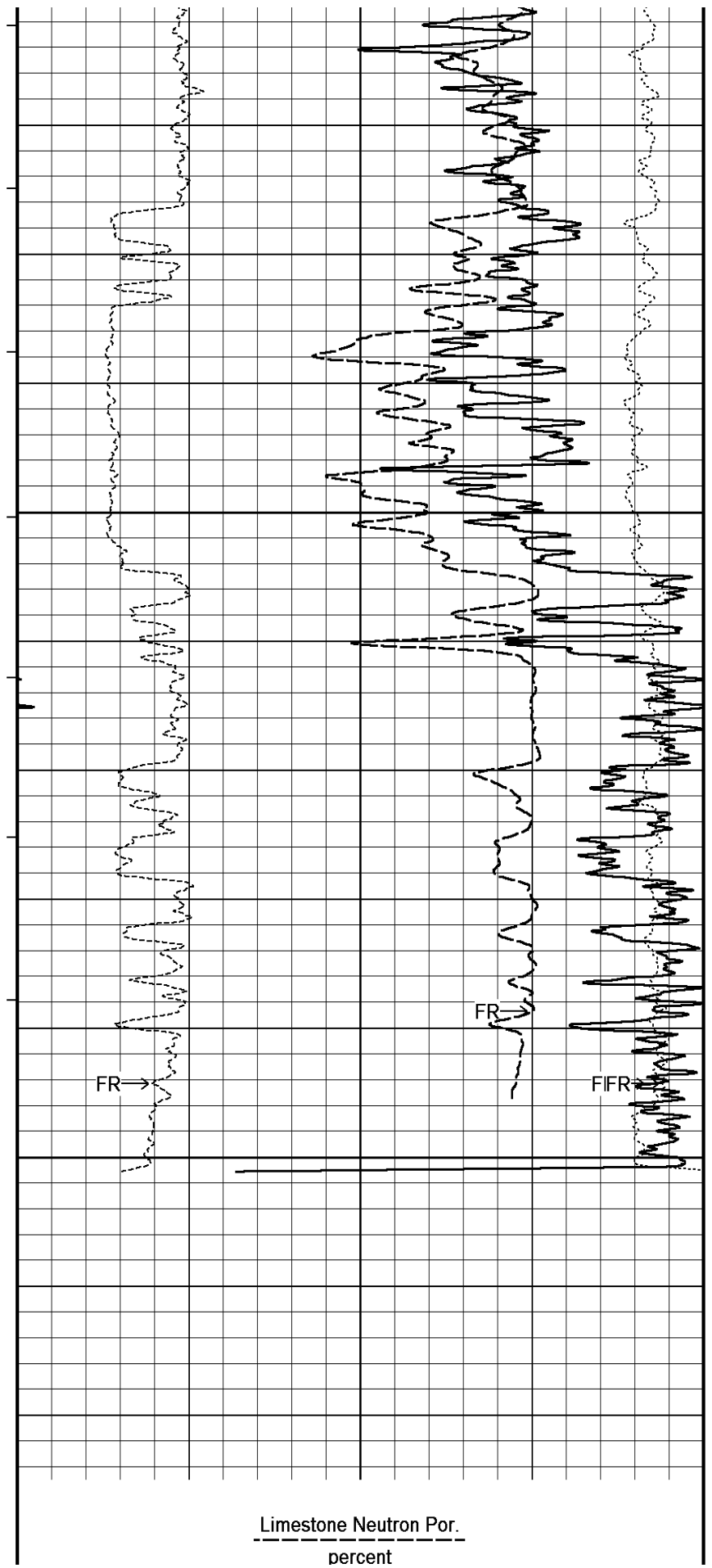
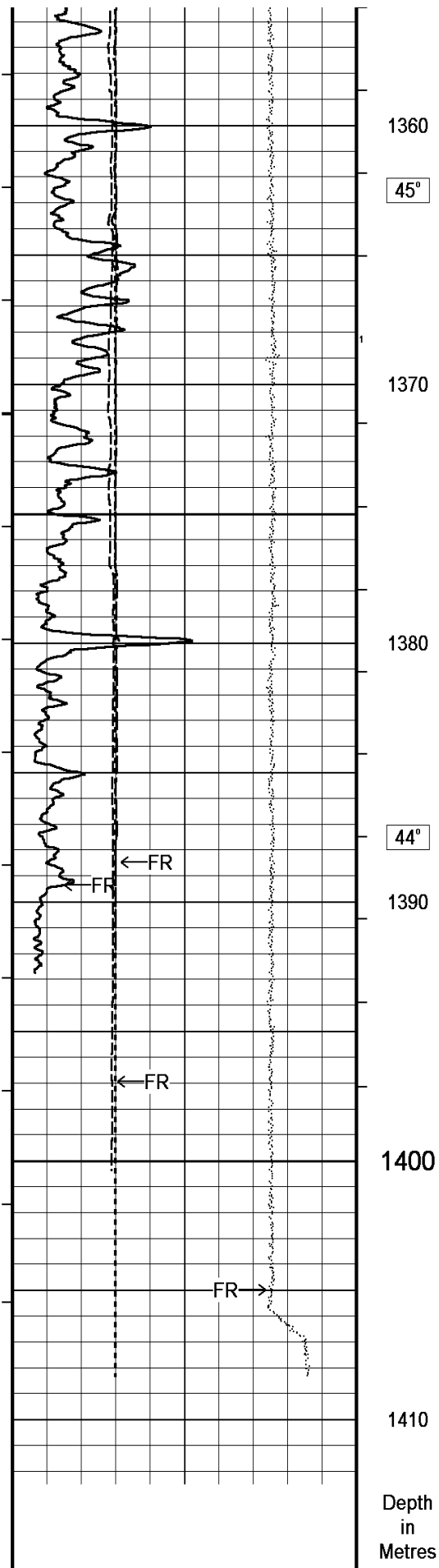


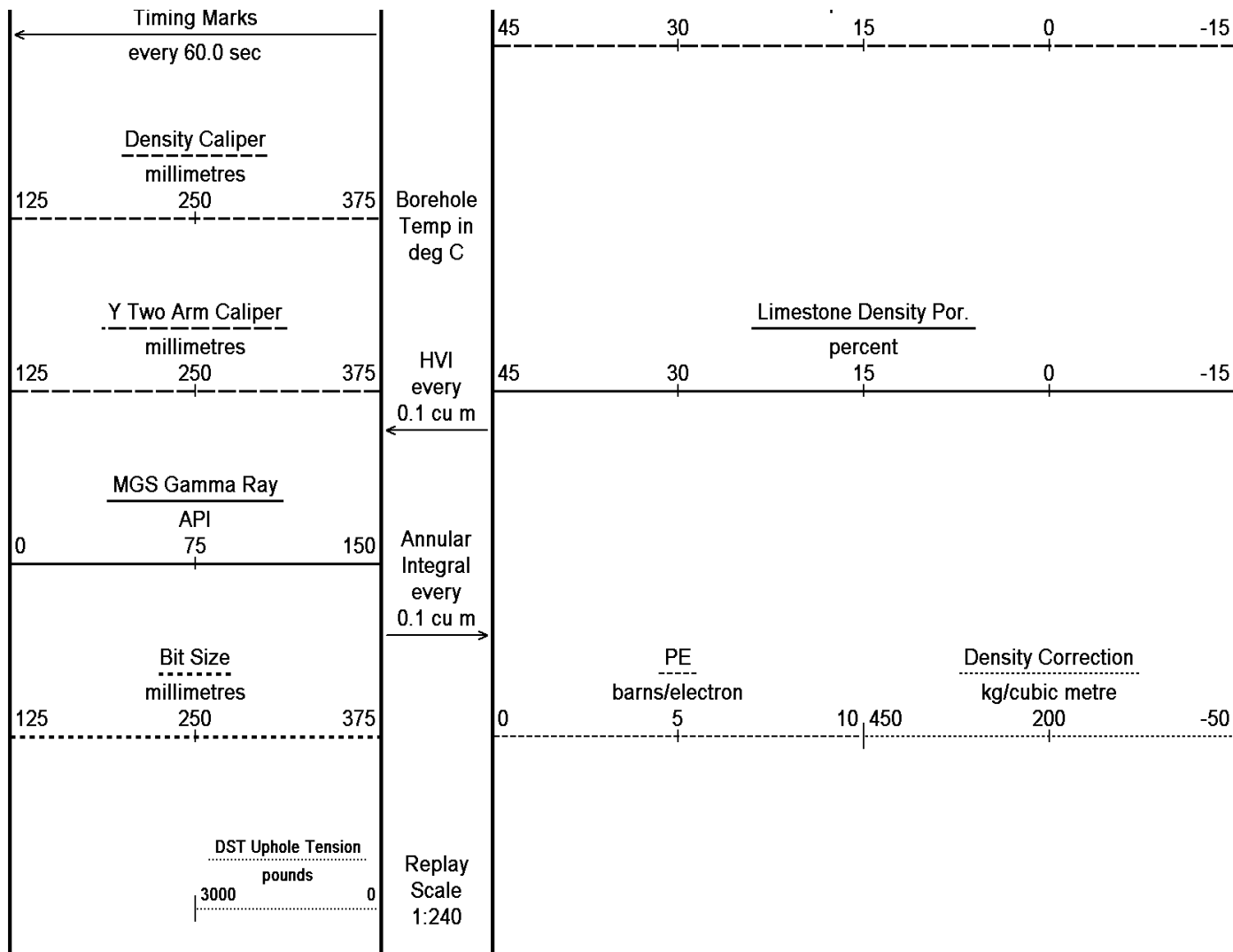
Depth Based Data - Maximum Sampling Increment 2.5cm
Filename: C:\Temp\Weatherford PreView\01E-72 HIRES.dta
System Versions: Logged with 7.01.0195 Plotted with 8.01.0091

Plotted on 12-NOV-2007 11:12
Recorded on 02-MAR-2007 16:51









Depth Based Data - Maximum Sampling Increment 2.5cm

Plotted on 12-NOV-2007 11:12

Filename: C:\Temp\Weatherford PreView\01E-72 HIREs.dta

Recorded on 02-MAR-2007 16:51

System Versions: Logged with 7.01.0195 Plotted with 8.01.0091

↑ HIGH RESOLUTION 1:240 - LIMESTONE MATRIX ↑

↓ HIGH RESOLUTION 1:240 - DOLOMITE MATRIX ↓

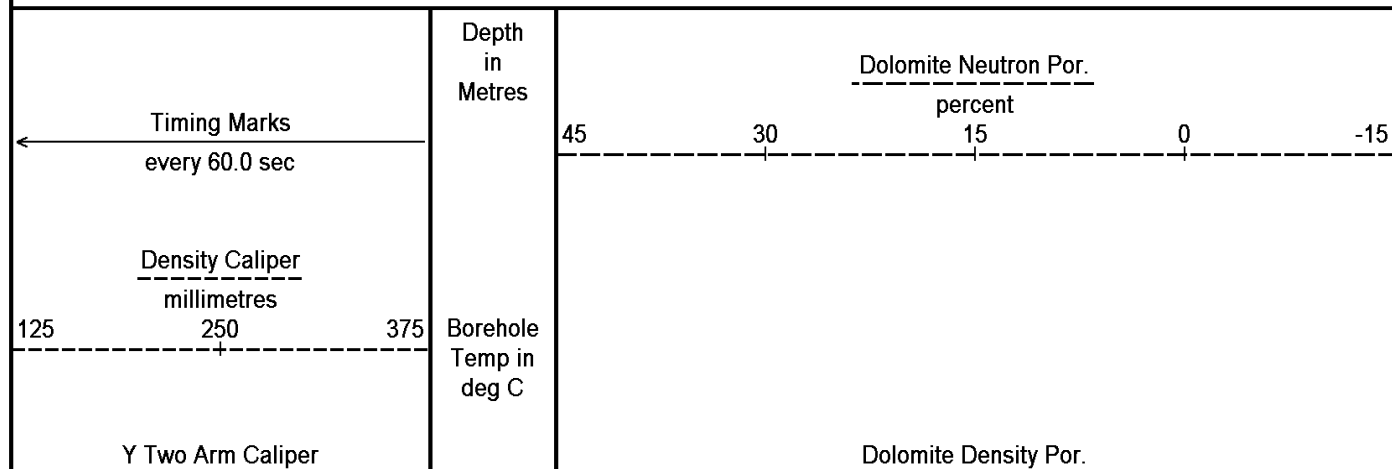
Depth Based Data - Maximum Sampling Increment 2.5cm

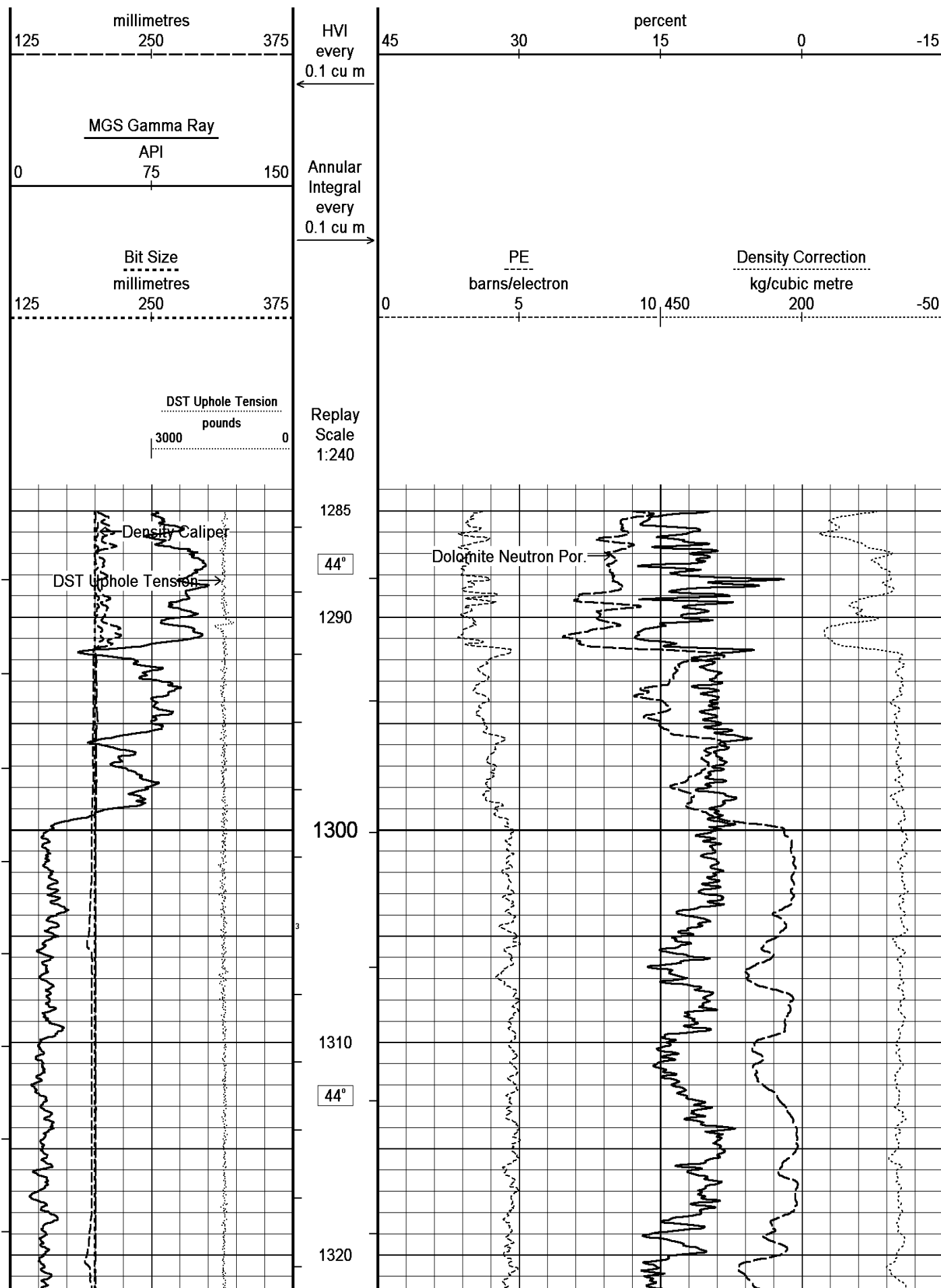
Plotted on 12-NOV-2007 11:12

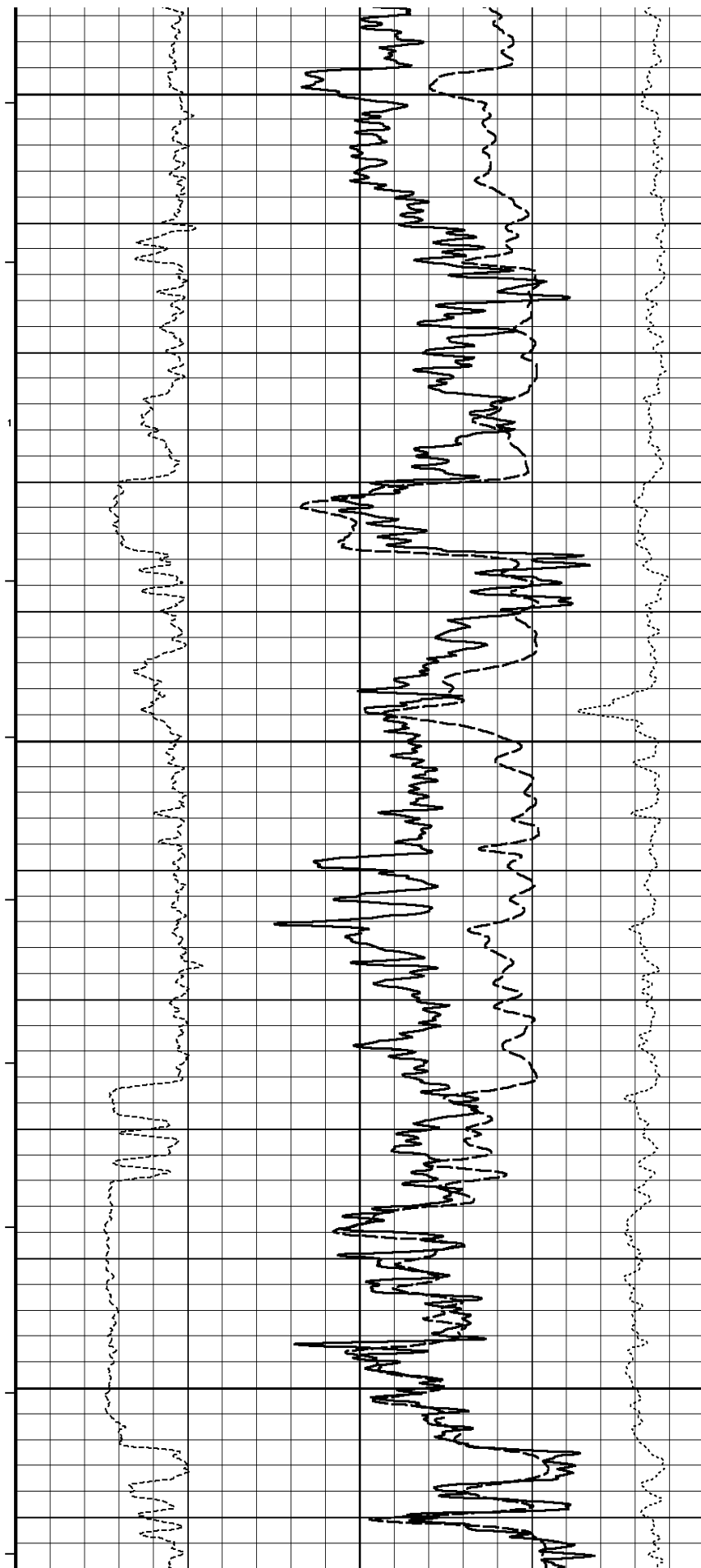
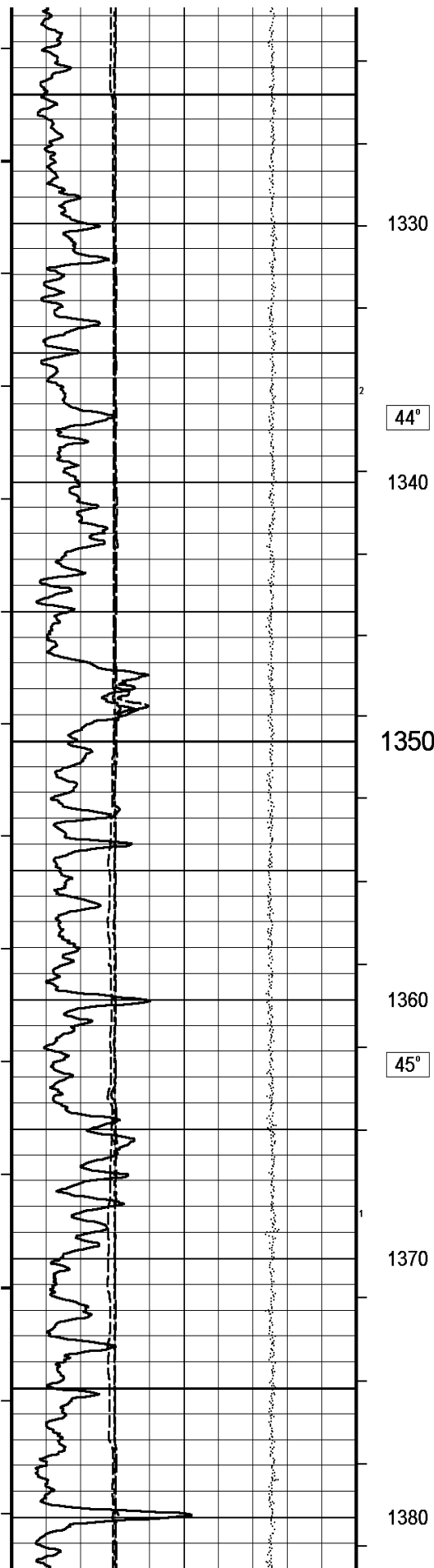
Filename: C:\Temp\Weatherford PreView\01E-72 HIREs.dta

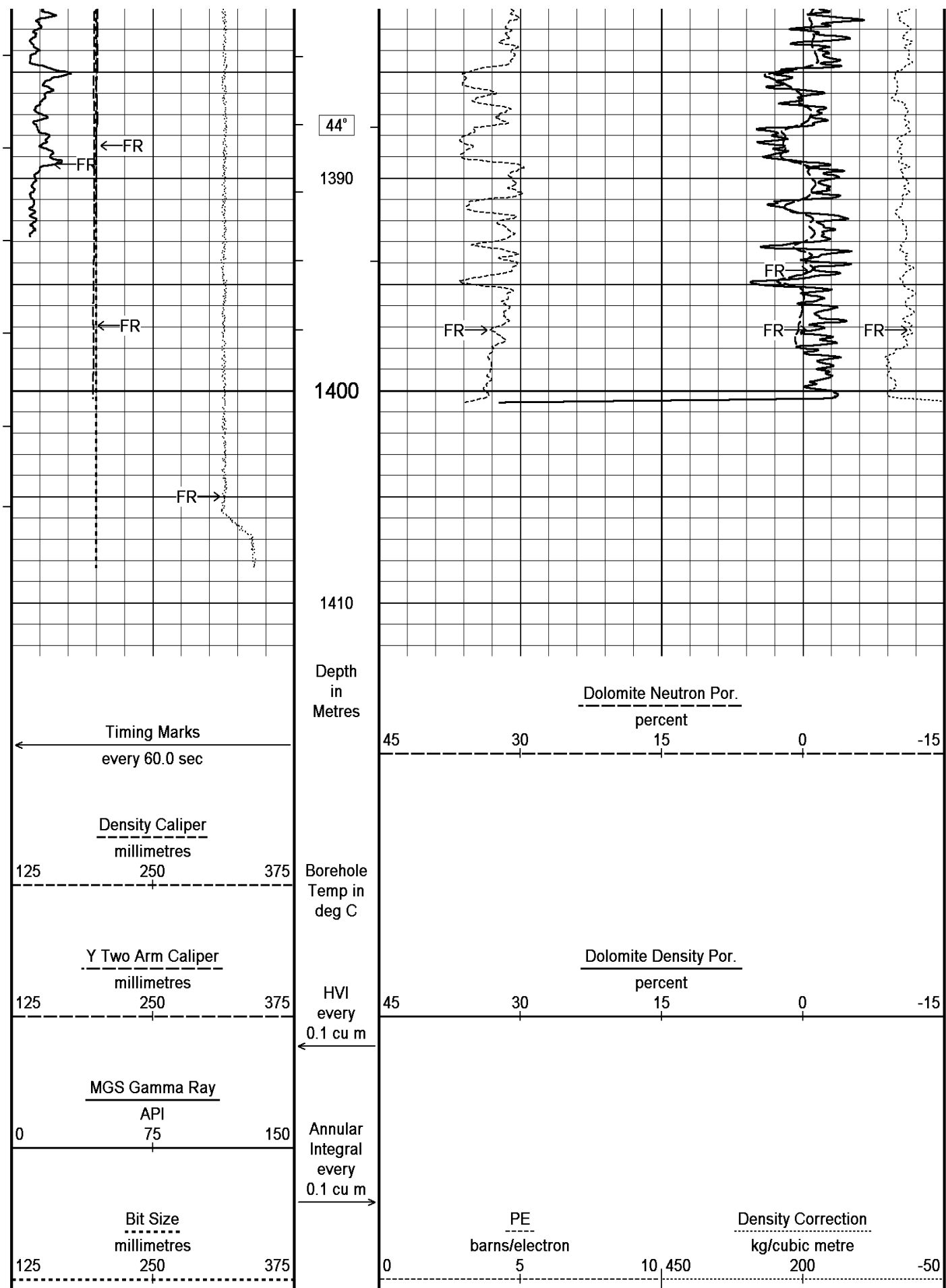
Recorded on 02-MAR-2007 16:51

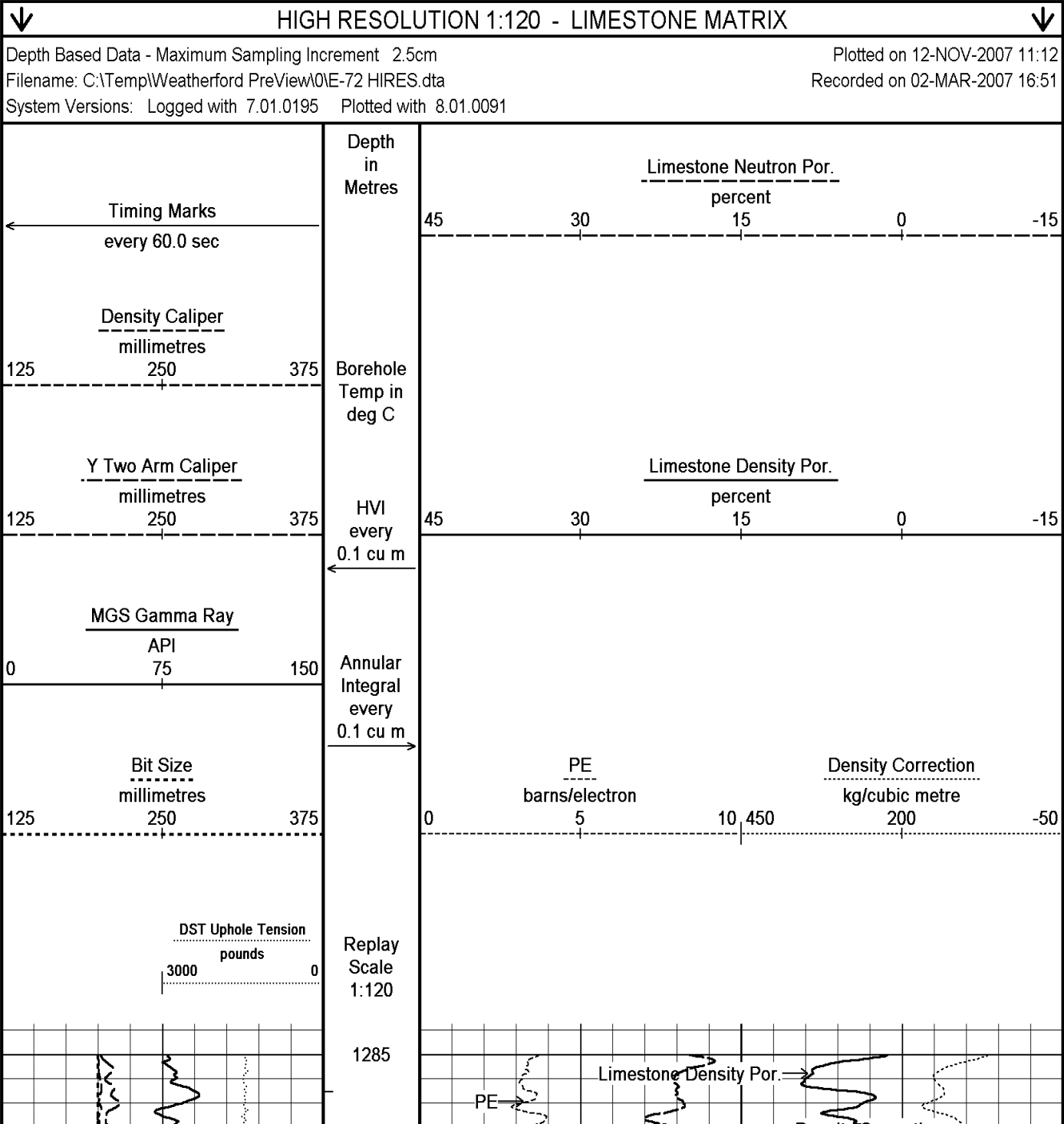
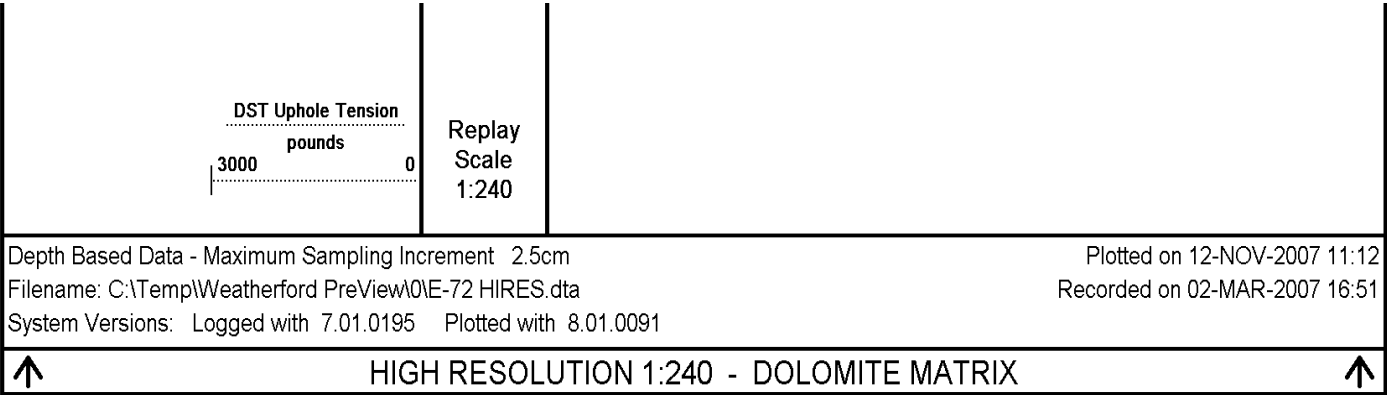
System Versions: Logged with 7.01.0195 Plotted with 8.01.0091

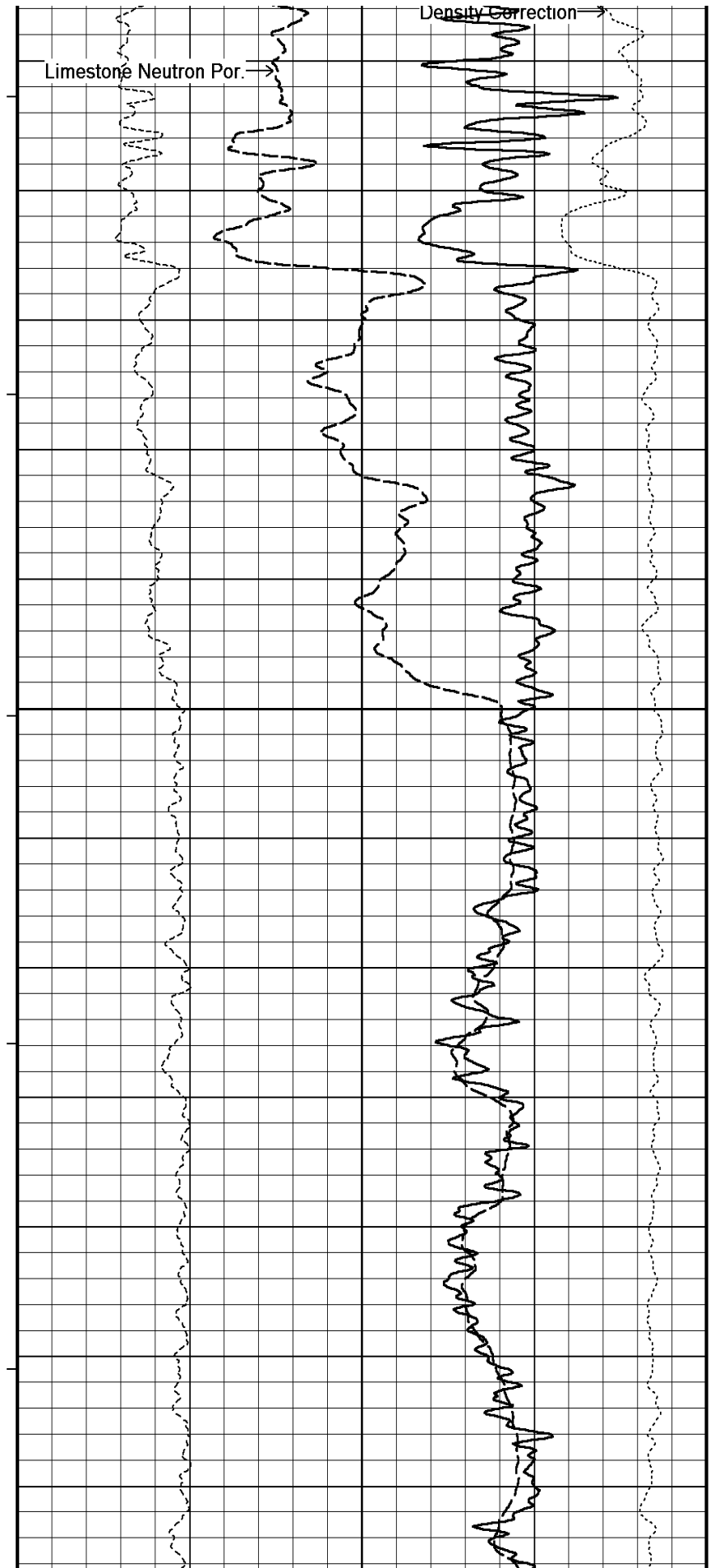
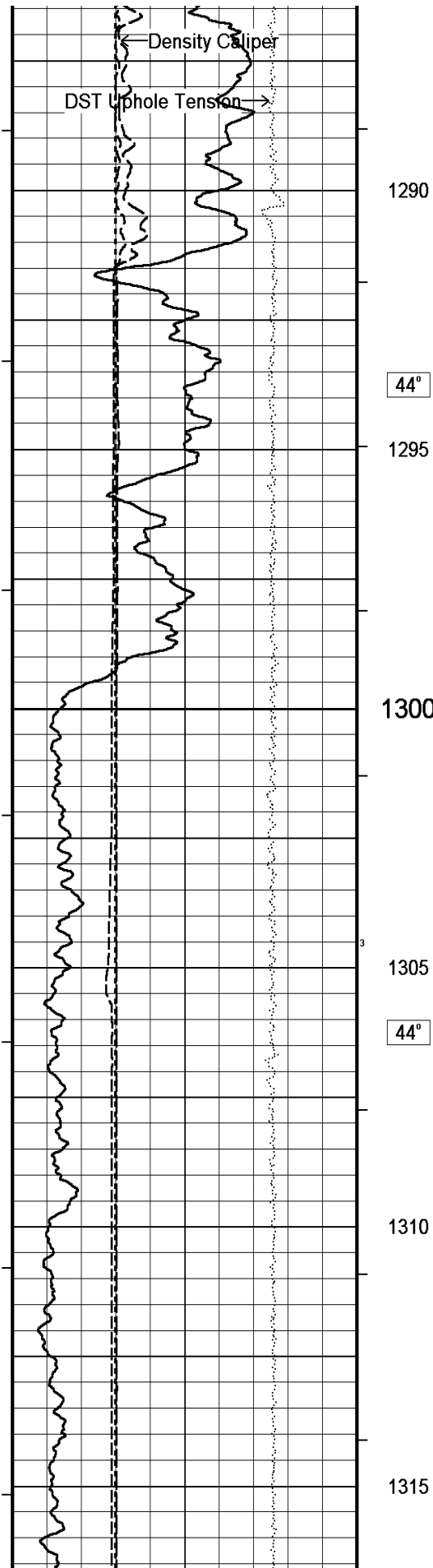


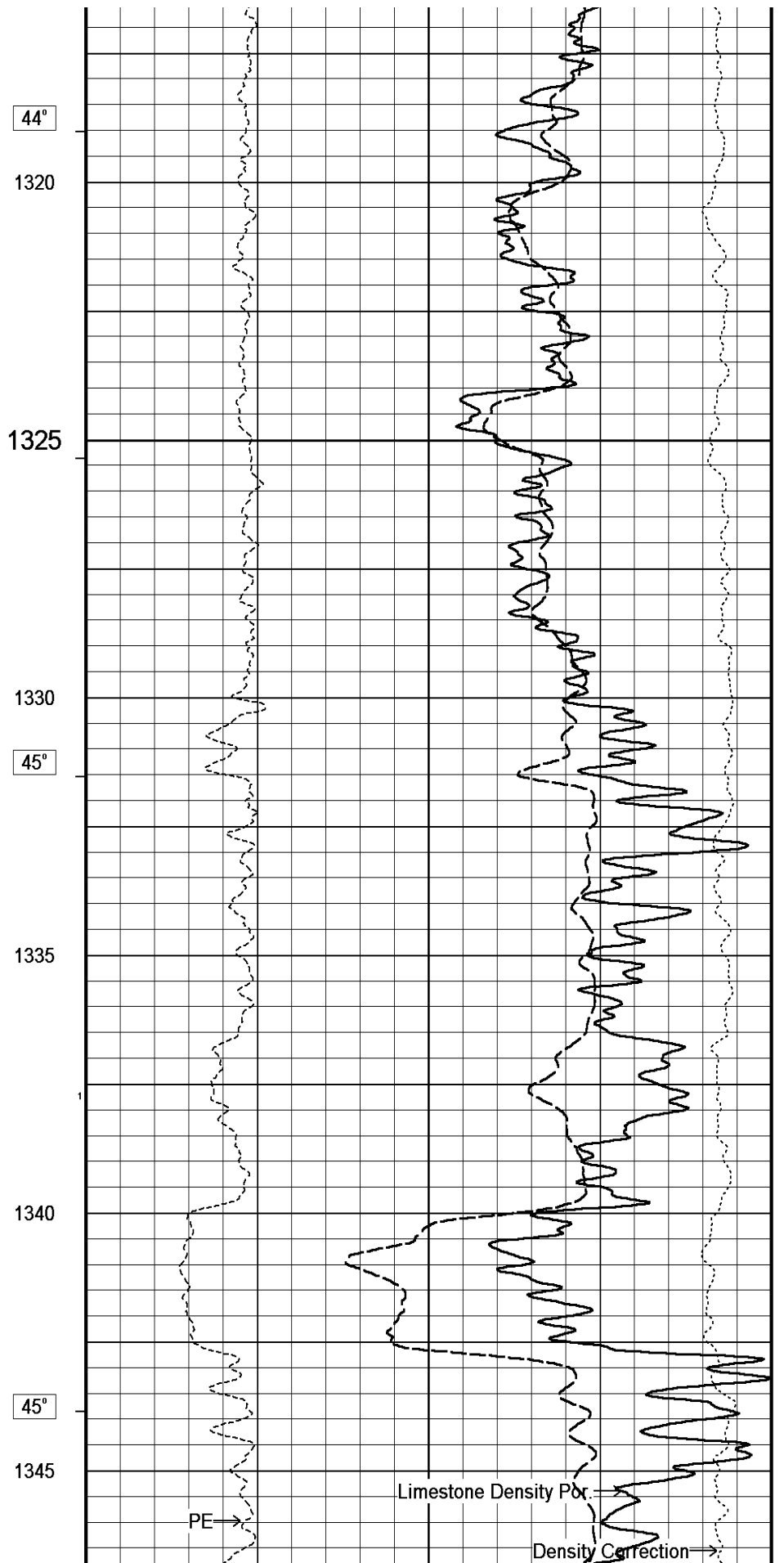
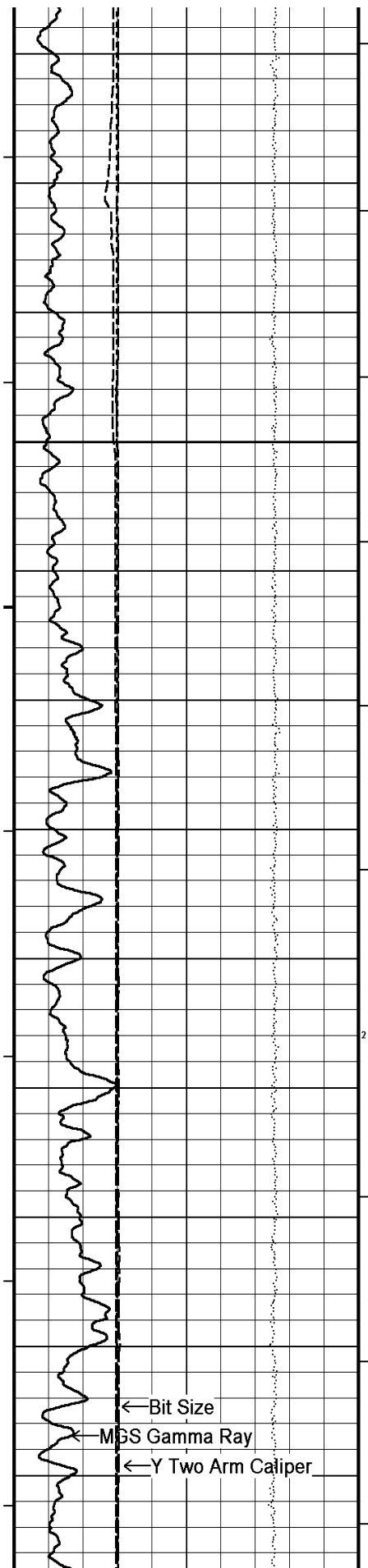


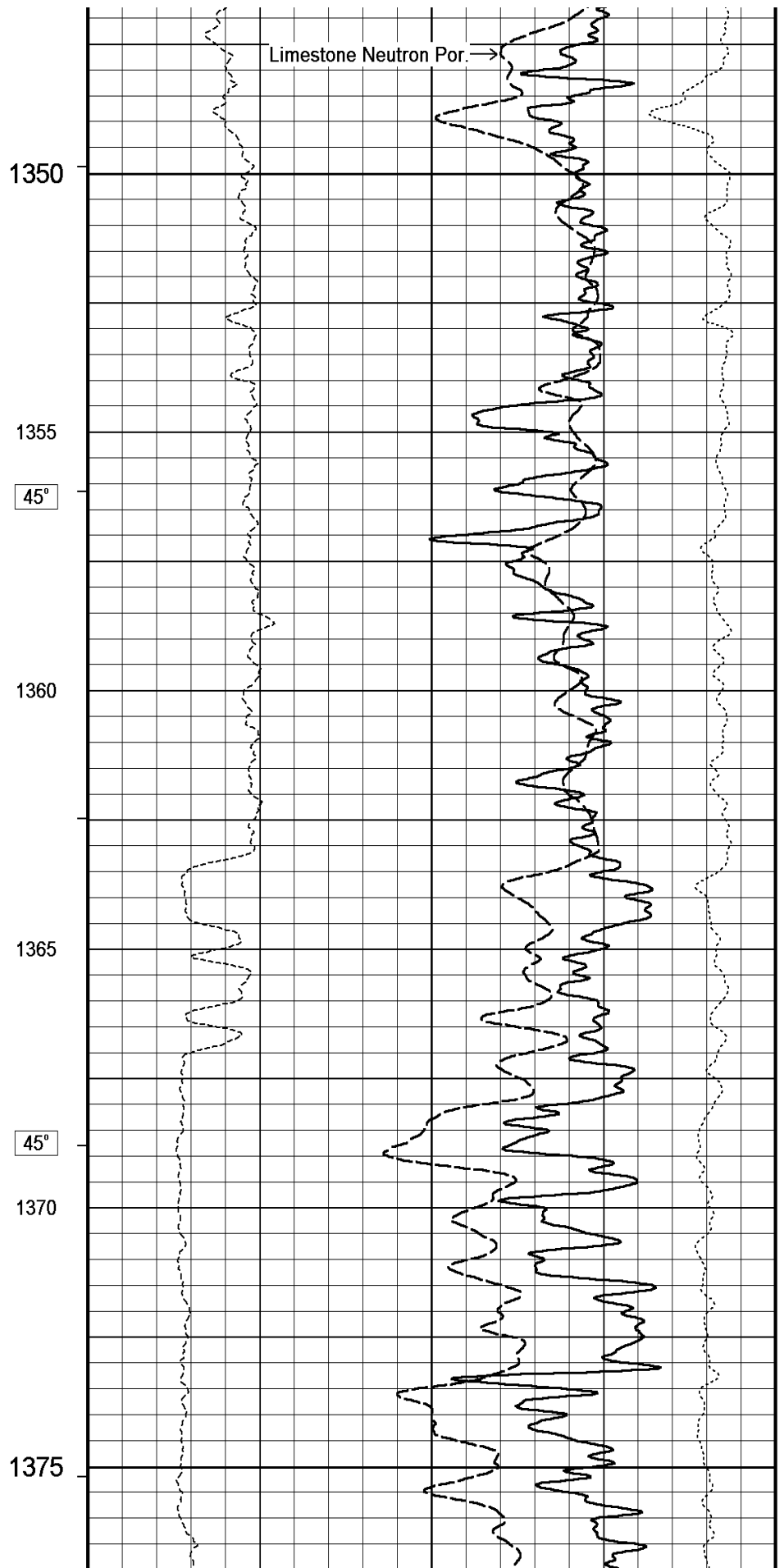
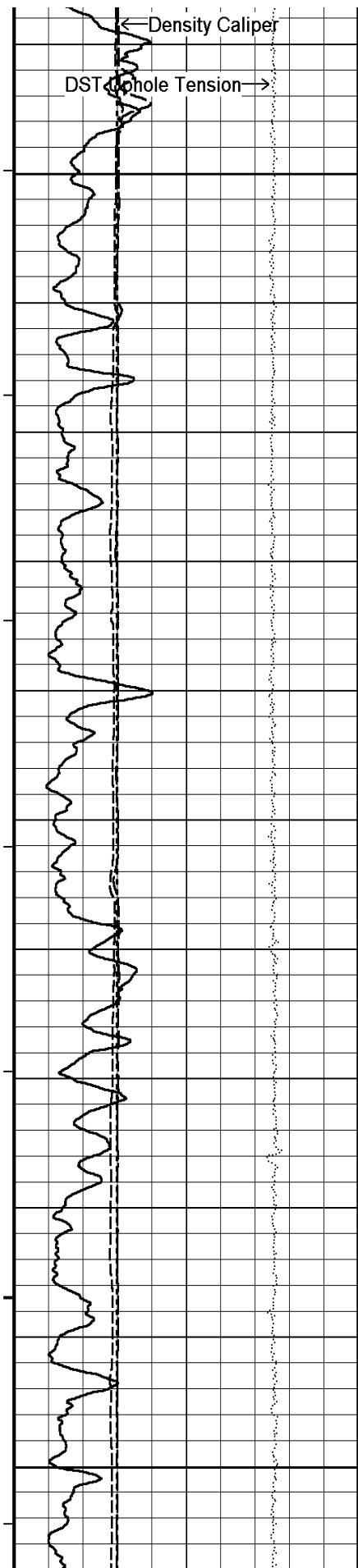


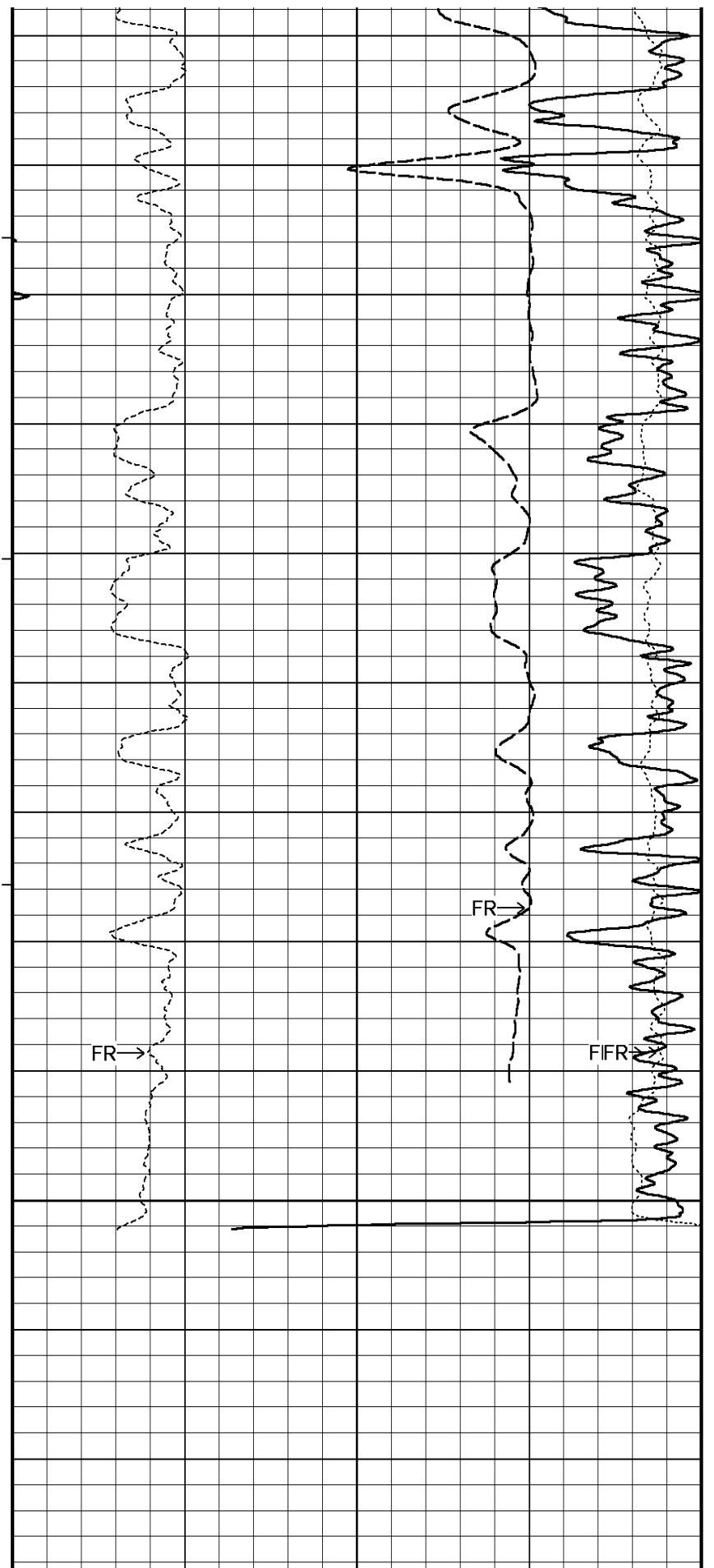
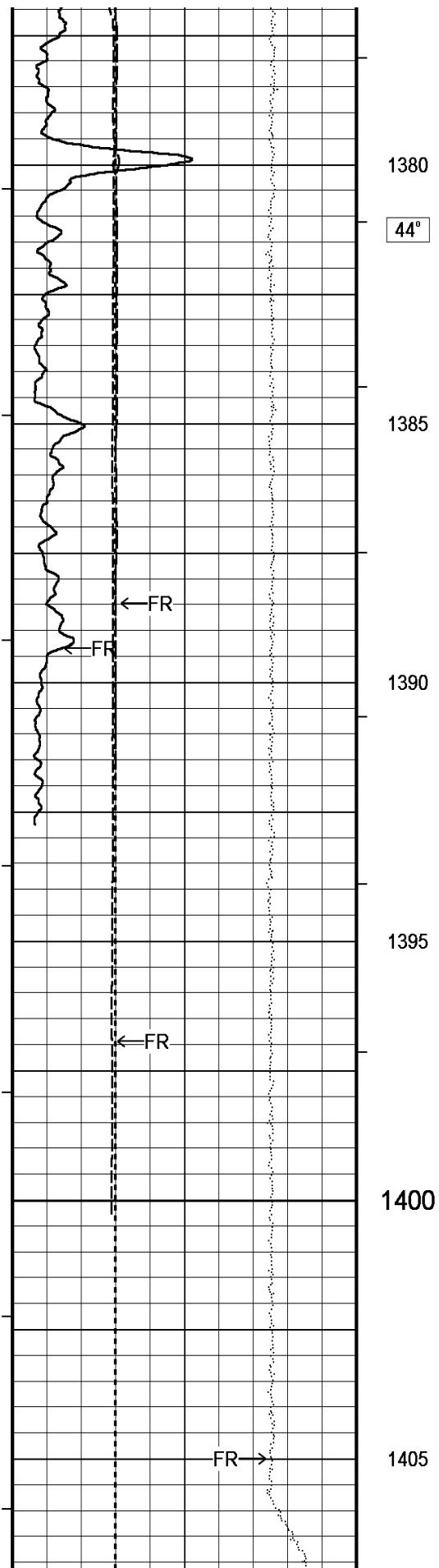


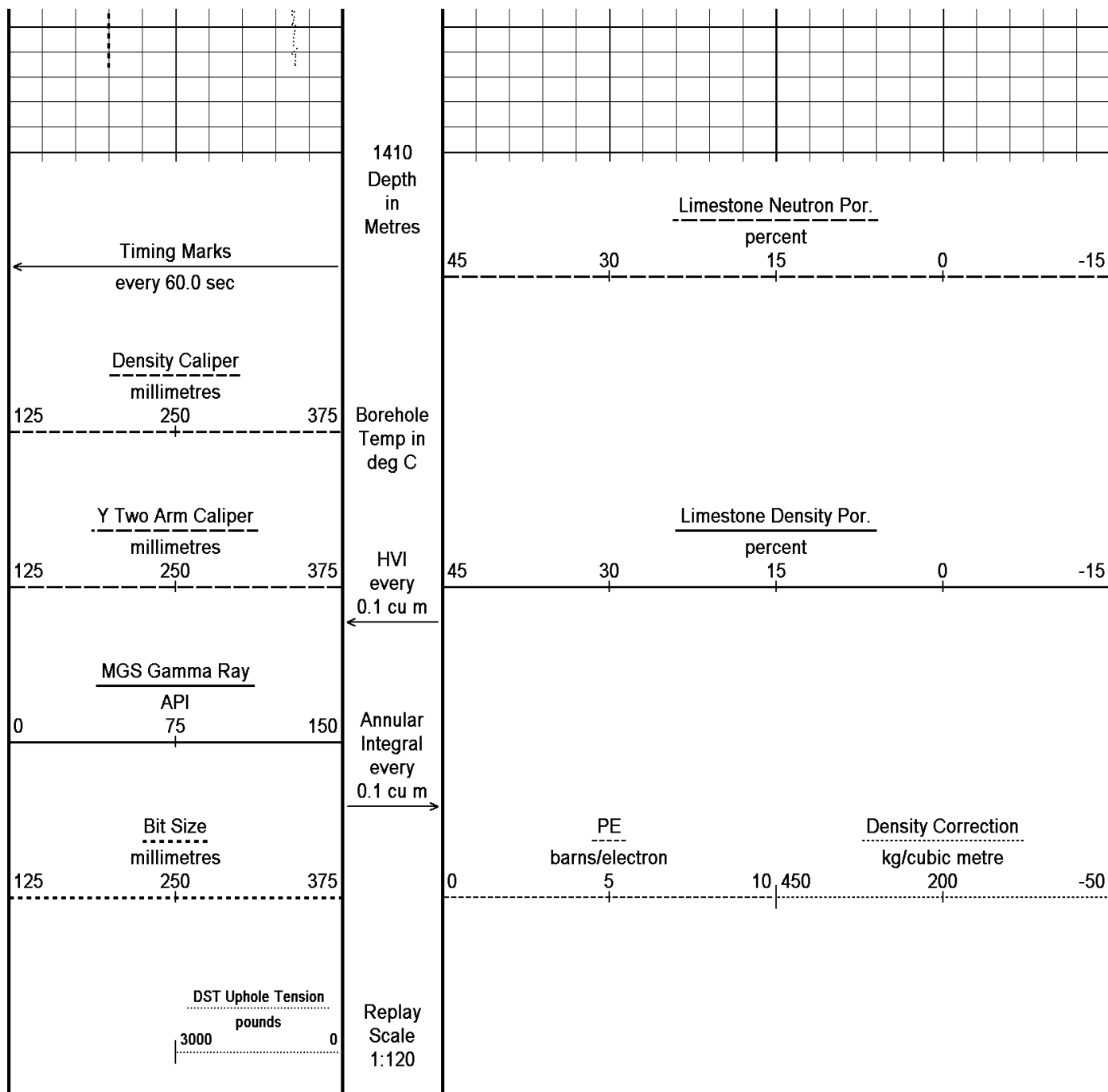












Depth Based Data - Maximum Sampling Increment 2.5cm

Plotted on 12-NOV-2007 11:12

Filename: C:\Temp\Weatherford PreView\01E-72 HIRES.dta

Recorded on 02-MAR-2007 16:51

System Versions: Logged with 7.01.0195 Plotted with 8.01.0091

↑ HIGH RESOLUTION 1:120 - LIMESTONE MATRIX ↑

↓ HIGH RESOLUTION 1:120 - DOLOMITE MATRIX ↓

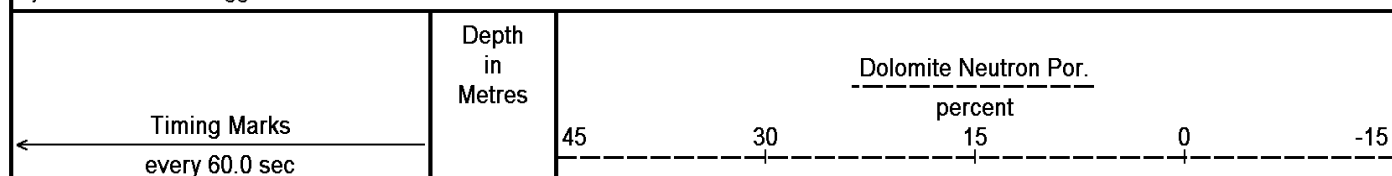
Depth Based Data - Maximum Sampling Increment 2.5cm

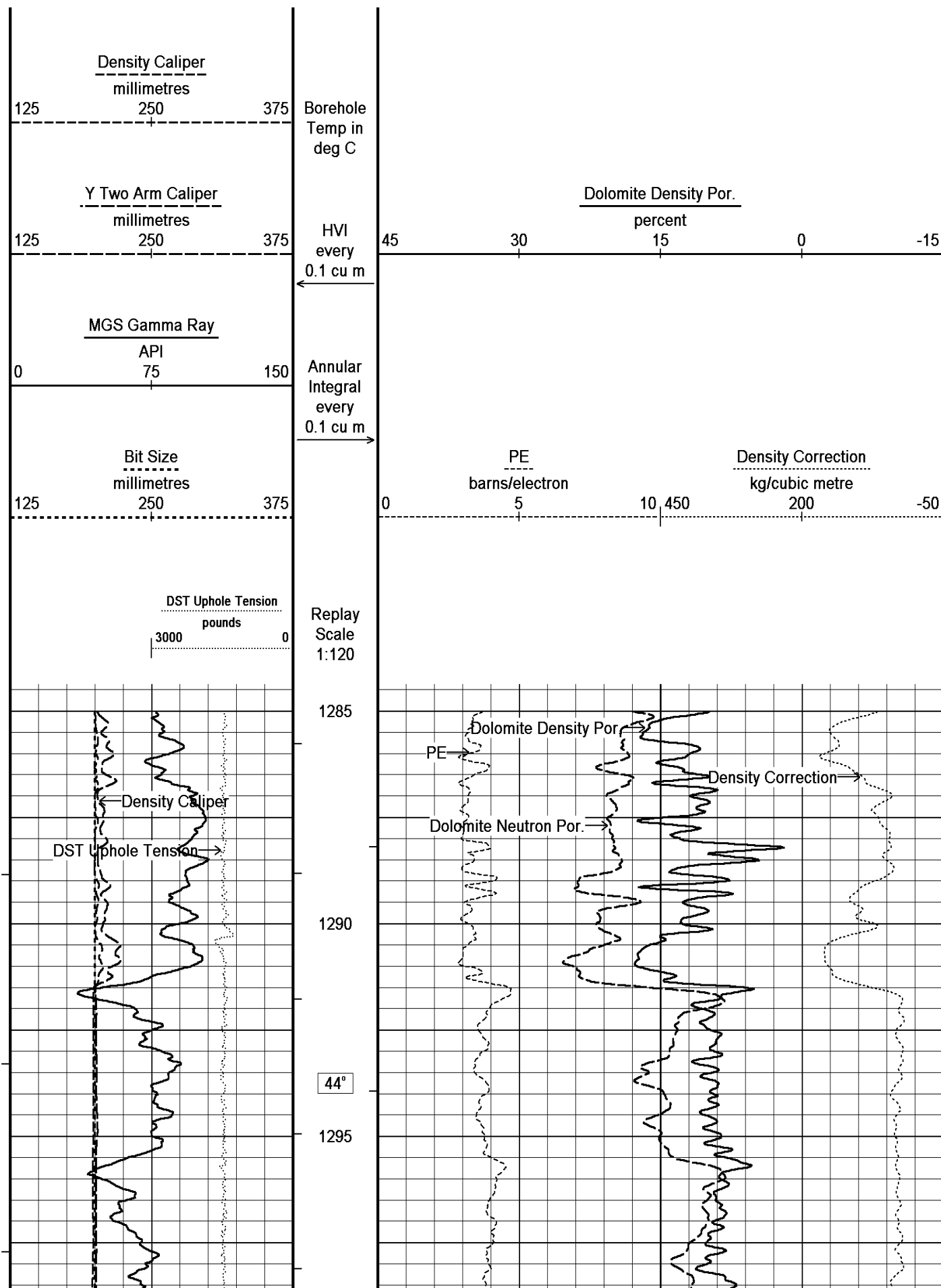
Plotted on 12-NOV-2007 11:12

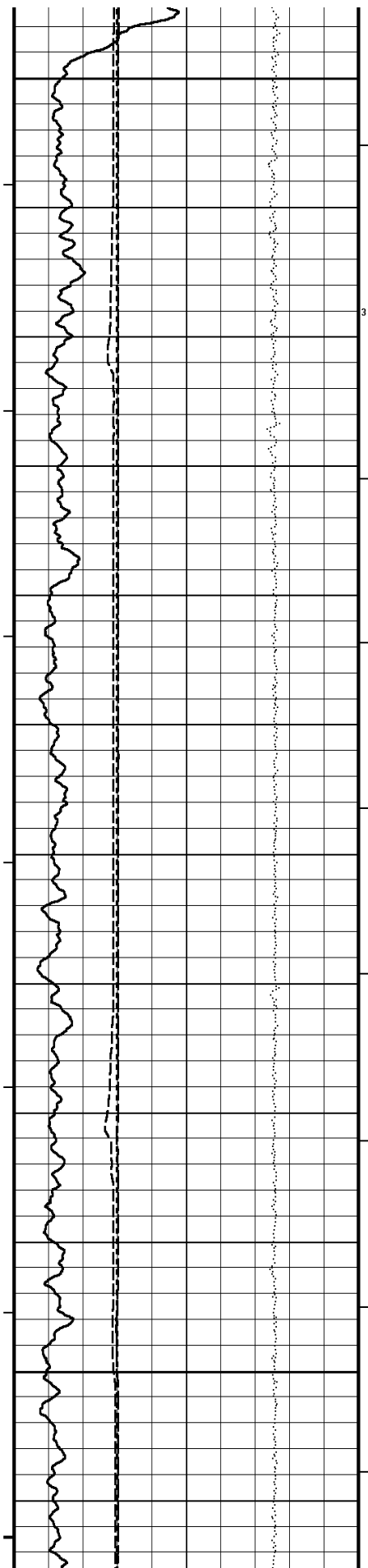
Filename: C:\Temp\Weatherford PreView\01E-72 HIRES.dta

Recorded on 02-MAR-2007 16:51

System Versions: Logged with 7.01.0195 Plotted with 8.01.0091







1300

1305

44°

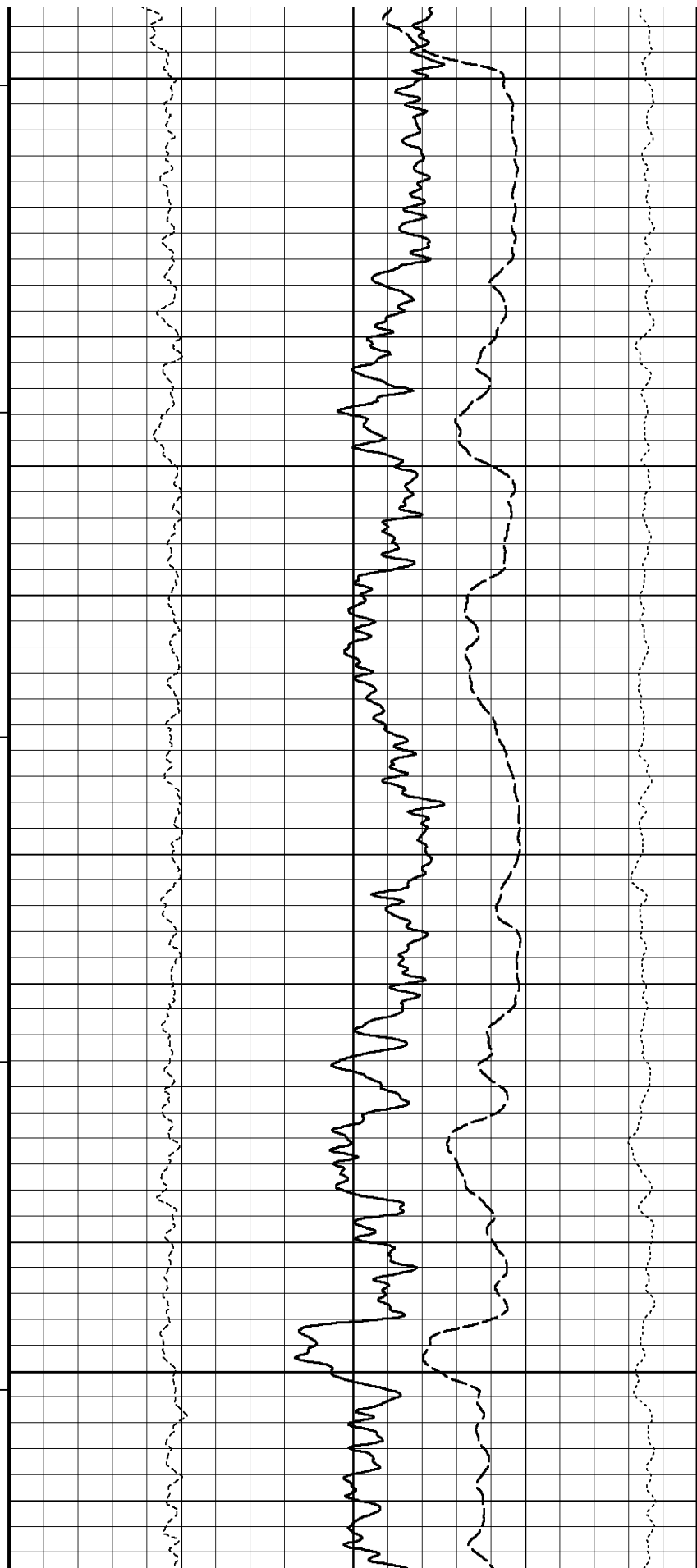
1310

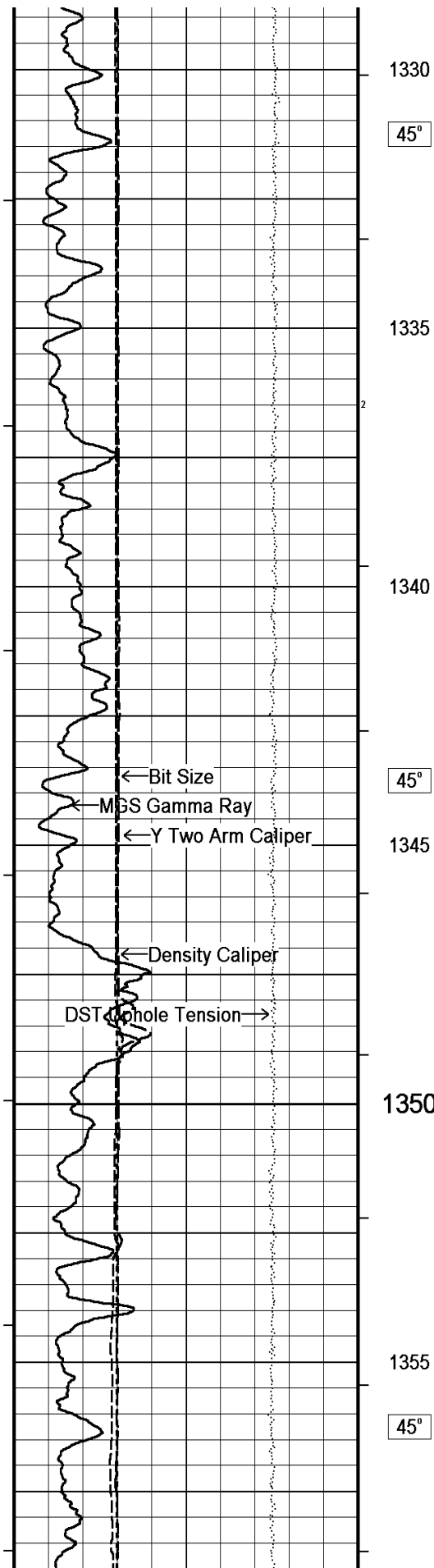
1315

44°

1320

1325





1330

45°

1335

1340

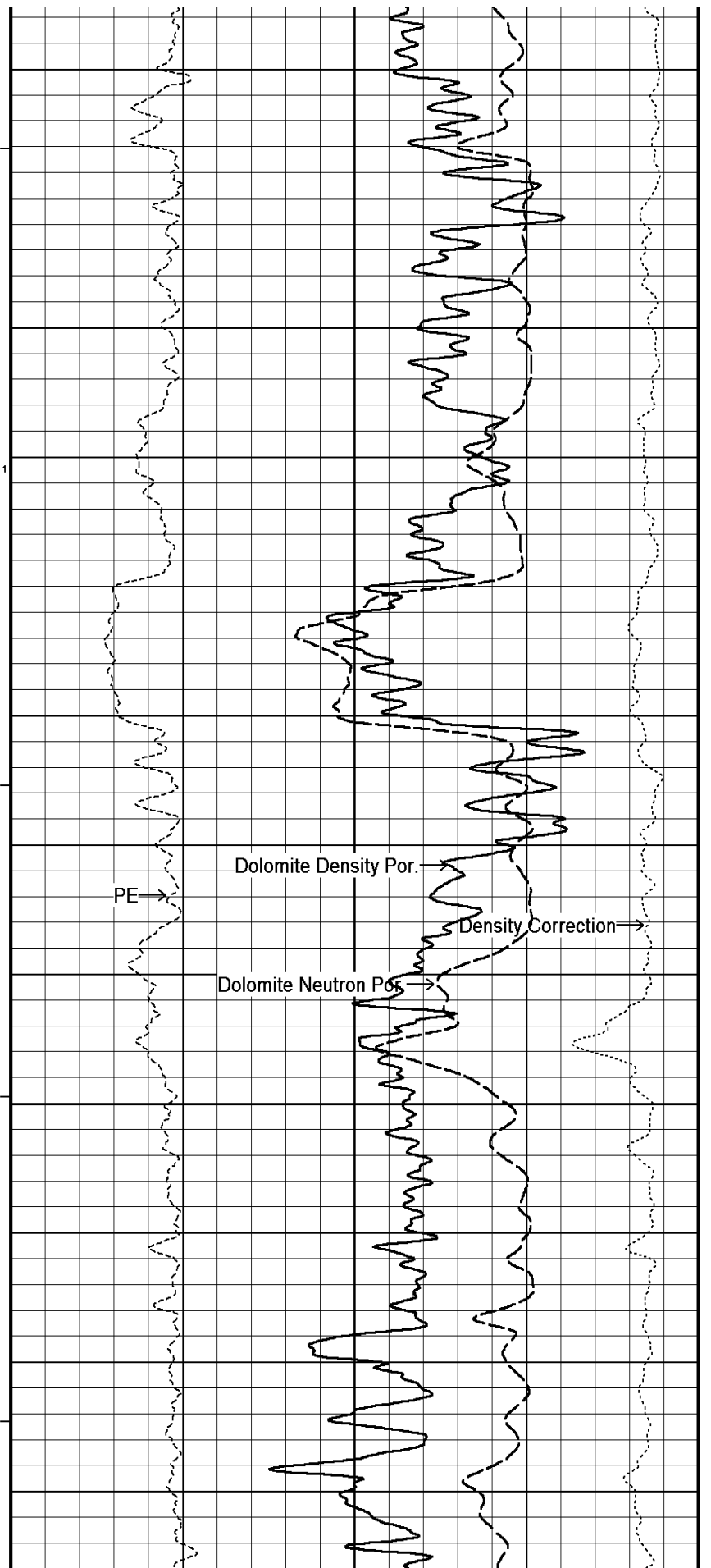
45°

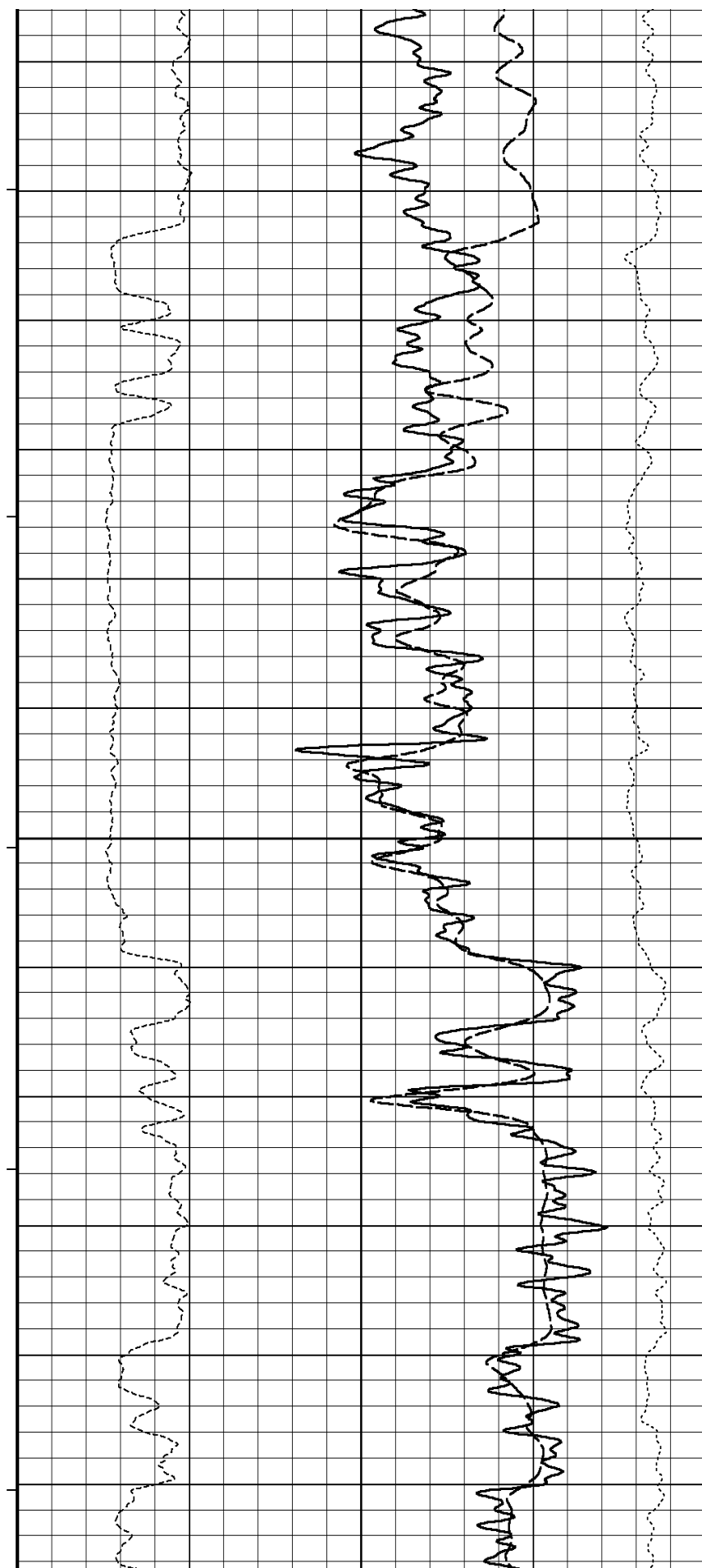
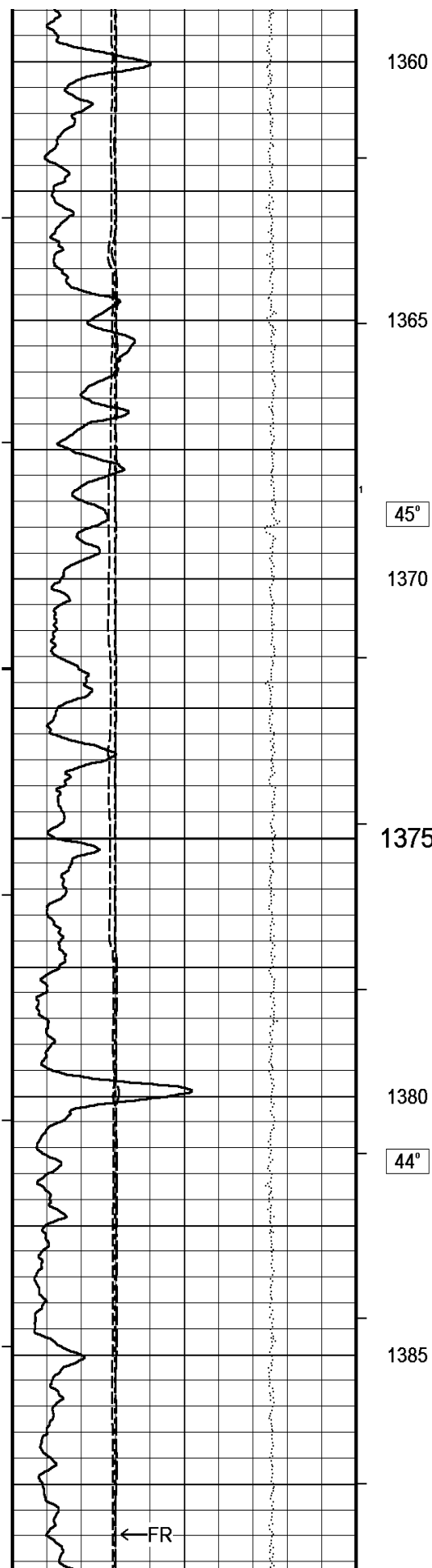
1345

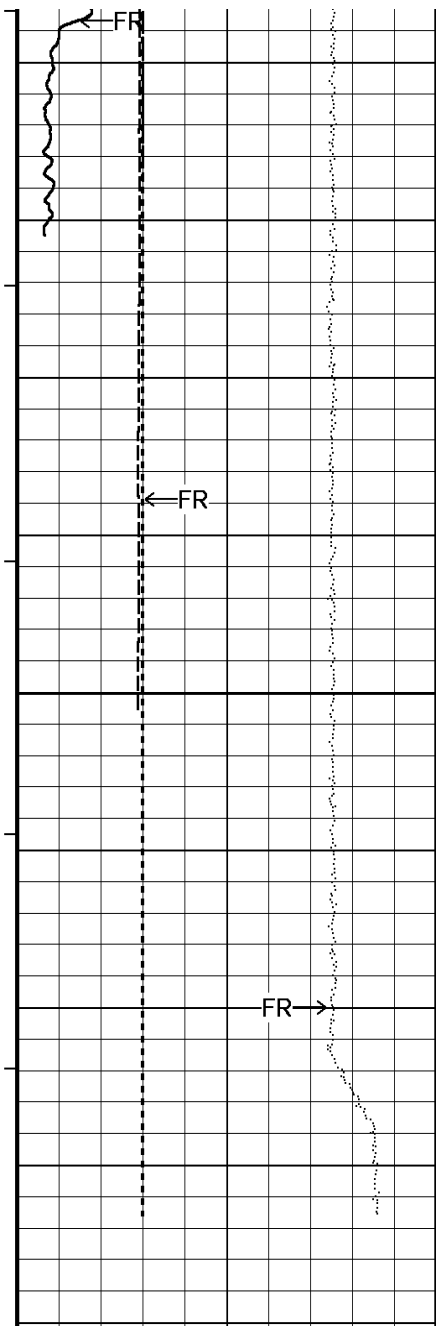
1350

1355

45°







1390

1395

1400

1405

1410
Depth
in
Metres

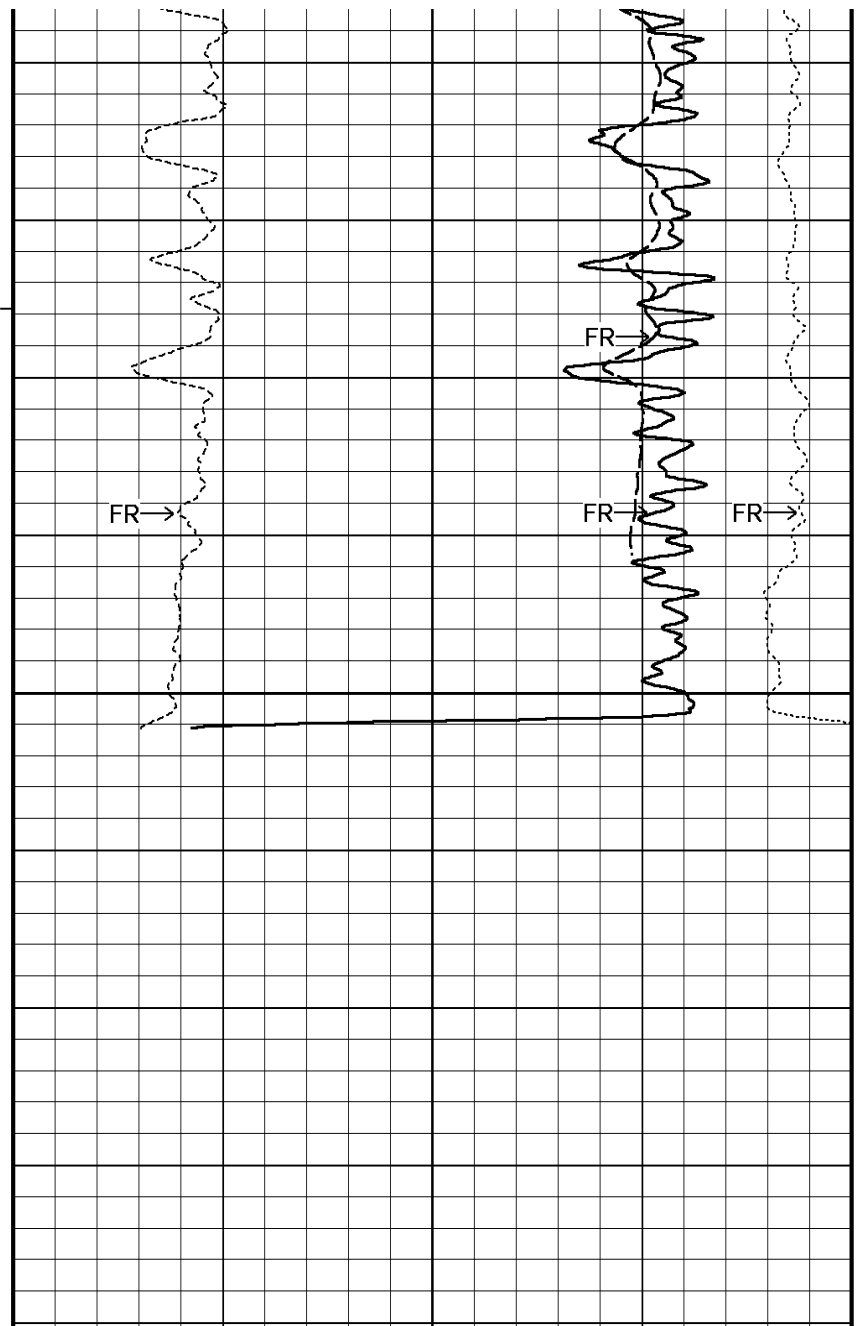
← Timing Marks
every 60.0 sec

Density Caliper
millimetres
125 250 375

Y Two Arm Caliper
millimetres
125 250 375

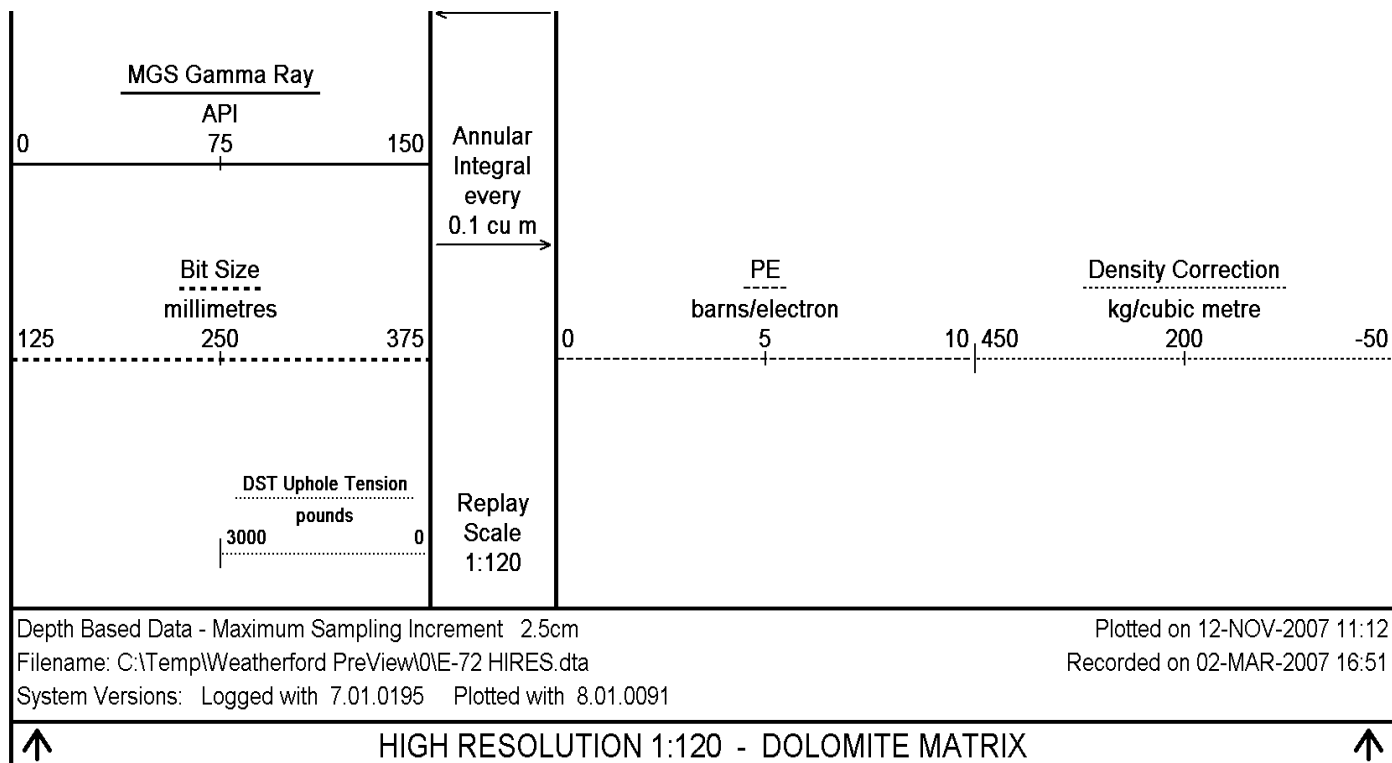
Borehole
Temp in
deg C

HVI
every
0.1 cu m



Dolomite Neutron Por.
percent
45 30 15 0 -15

Dolomite Density Por.
percent
45 30 15 0 -15



BEFORE SURVEY CALIBRATION			
C:\Temp\Weatherford PreView\0\E-72 REPEAT.dta			
General Constants All 000		Last Edited on 2-MAR-2007,16:03	
General Parameters			
Mud Resistivity	1.250	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		
High Resolution Temperature Calibration MCG 173		Field Calibration on 4-FEB-2007,23:25	
	Measured	Calibrated(Deg C)	
Lower	1.00	1.00	
Upper	11.00	11.00	
High Resolution Temperature Constants MCG 173		Last Edited on 4-FEB-2007,23:25	
Pre-filter Length	11		
Caliper Calibration MTC 037		Base Calibration on 28-FEB-2007 15:42 Field Calibration on 2-MAR-2007,15:53	
Base Calibration			
Reading No	Measured	Calibrator Size (mm)	

Reading No	measured	Calibrator Size (mm)
1	14092	101.98
2	16789	152.57
3	19549	203.72
4	22409	255.20
5	25210	304.45
6	N/A	N/A
Field Calibration	Measured Caliper (mm)	Actual Caliper (mm)
	206.00	206.00
Gamma Calibration MGS 012		
	Measured	Calibrated (API)
Background	119	78
Calibrator (Gross)	847	552
Calibrator (Net)	728	474
Gamma Constants MGS 012		
Last Edited on 2-MAR-2007,13:09		
Gamma Calibrator Number	GRC-107	
Mud Density	1120.00	kg/m3
Caliper Source for Processing	Density Caliper	
Tool Position	Centred	
Concentration of KCl	0.00	kppm
Neutron Calibration MDN 127		
Base Calibration on 28-FEB-2007 12:26		
Field Check on 2-MAR-2007 13:07		
Base Calibration	Measured	Calibrated (cps)
	Near Far	Near Far
	3038 92	3714 110
Ratio	32.951	33.764
Field Calibrator at Base		Calibrated (cps)
		2237 3381
Ratio		0.662
Field Check		Calibrated (cps)
		2243 3286
Ratio		0.683
Neutron Constants MDN 127		
Last Edited on 9-FEB-2007,19:46		
Neutron Source Id	805	
Neutron Jig Number	NJ5233	
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	Constant Value	
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 091		
Base Calibration on 28-FEB-2007 12:04		
Field Check on 2-MAR-2007 12:58		
Density Calibration		

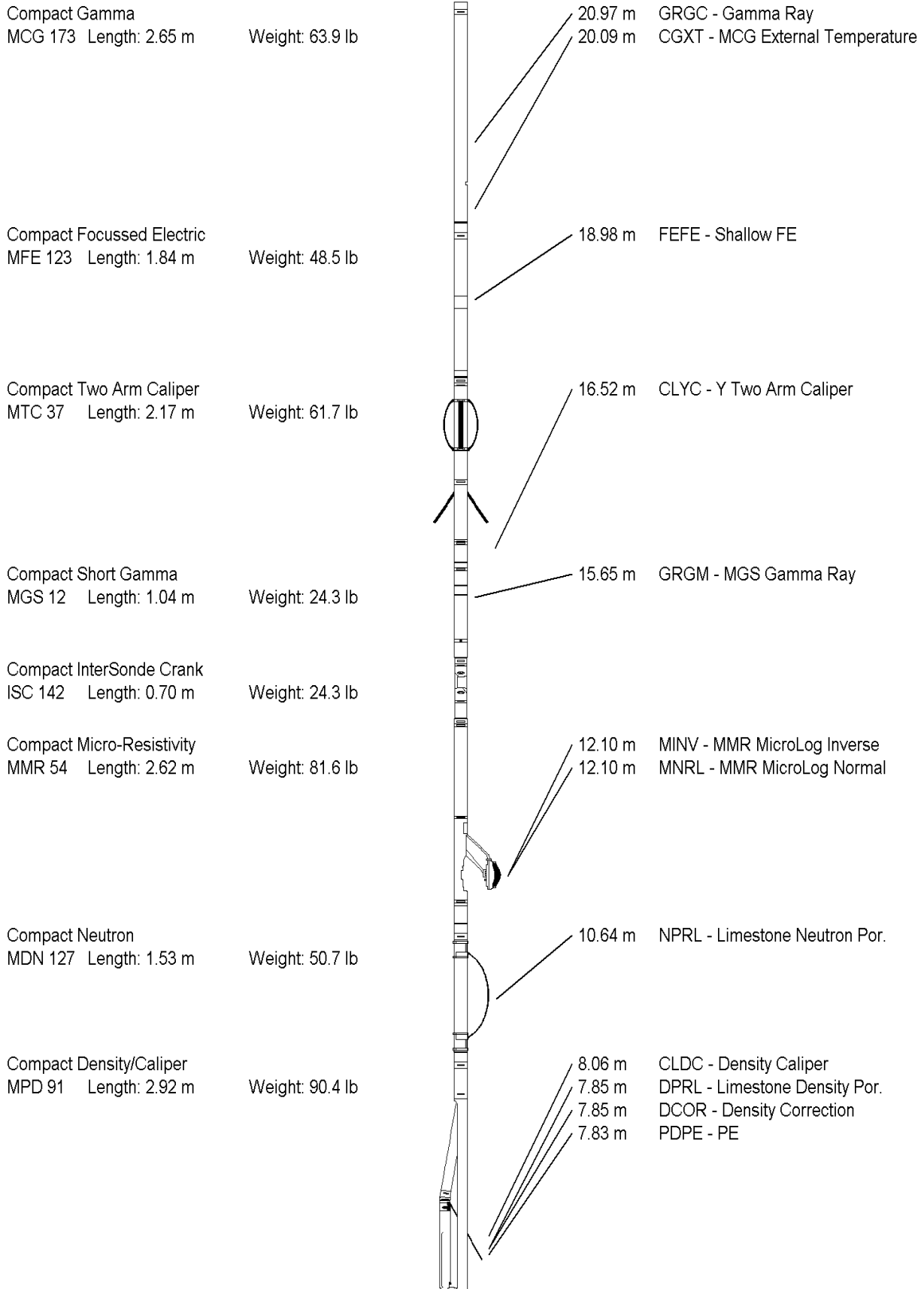
Base Calibration		Measured		Calibrated (sdu)	
		Near	Far	Near	Far
	Reference 1	57945	30035	60352	31615
	Reference 2	22615	2204	25043	2540
Field Check at Base					
		763.7	927.9		
Field Check					
		767.2	941.2		
PE Calibration					
Base Calibration		Measured		Calibrated	
	WS	WH	Ratio	Ratio	
	Background	139	680		
	Reference 1	23444	57792	0.408	
	Reference 2	6349	22532	0.284	
Field Check at Base					
		139.1	679.9		
Field Check					
		142.2	685.2		

Density Constants MPD 091			Last Edited on 2-MAR-2007,13:09		
Density Source Id			286		
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			1120.00	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 091			Base Calibration on 3-FEB-2007,04:39		
			Field Calibration on 2-MAR-2007,15:53		
Base Calibration					
Reading No			Measured	Calibrator Size (mm)	
	1	16446		101.98	
	2	26416		152.58	
	3	36048		203.72	
	4	46272		255.20	
	5	57271		304.45	
	6	N/A		N/A	
Field Calibration					
		Measured Caliper (mm)		Actual Caliper (mm)	
		209.40		205.70	

DOWNHOLE EQUIPMENT

C:\Temp\Weatherford PreView\0\E-72 REPEAT.dta

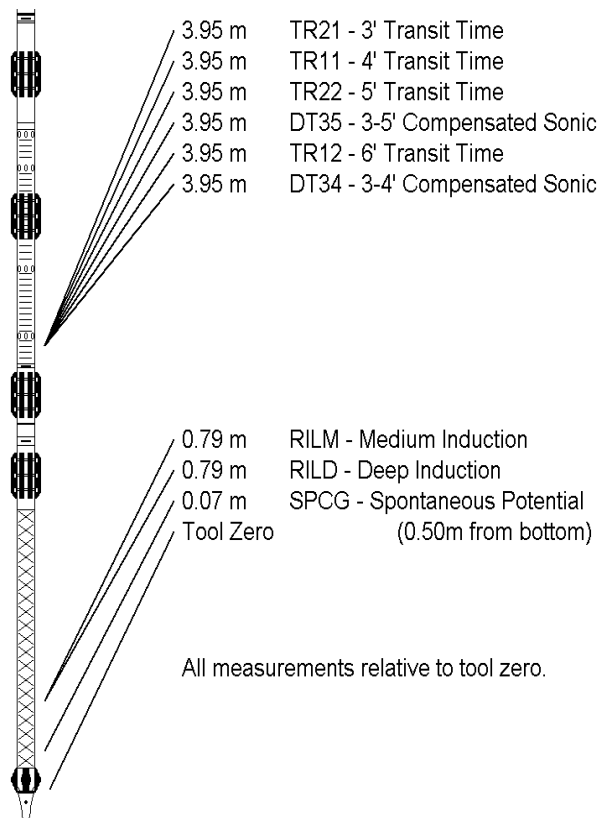


Compact Sonic
MSS 38 Length: 3.82 m Weight: 72.8 lb

Compact Induction
MAI 137 Length: 3.29 m Weight: 48.5 lb

Compact Hole Finder
HFS 1 Length: 0.46 m Weight: 2.2 lb

Total Length: 23.05 m Weight: 568.8 lb



COMPANY	PARAMOUNT RESOURCES LTD
WELL	PARA ET AL CAMERON E-72
FIELD	CAMERON HILLS
PROVINCE/COUNTY	NORTHWEST TERRITORIES
COUNTRY/STATE	CANADA

Elevation Kelly Bushing	734.40	metres	First Reading	1398.00	metre
Elevation Drill Floor		metres	Depth Driller	1408.00	metres
Elevation Ground Level	729.00	metres	Depth Logger	1406.30	metres



Weatherford®

PHOTO DENSITY
DUAL SPACED NEUTRON