



PHOTO DENSITY DUAL SPACED NEUTRON

COMPANY **PARAMOUNT RESOURCES LTD.**
WELL **PARAMOUNT ET AL CAMERON J-04**
FIELD **CAMERON HILLS**
PROVINCE/COUNTY **NORTH WEST TERRITORIES**
COUNTRY/STATE **CANADA**
LOCATION **300/J-04-60-10-117-30**

FIELD PRINT

LSD SEC TWP RGE Other Services
ARRAY INDUCTION
MICROLOG

API Number 1159 COMPENSTATED SONIC

Permanent Datum GROUND LEVEL, Elevation 765.20 metres
Log Measured From 4.00 M above Permanent Datum
Drilling Measured From KB

Elevations:
KB 769.20
DF 765.20
GL

Date 15-FEB-2007

Run Number 1

Depth Driller 1449.00 metres

Depth Logger 1449.50 metres

First Reading 1441.60 metre

Last Reading 0.00 metre

Casing Driller 430.00 metres

Casing Logger 429.80 metres

Bit Size 200.00 mm

Hole Fluid Type GELCHEM

Density / Viscosity 1060.0kg/M3 93.00 CP

PH / Fluid Loss 11.00 11.00 ml/30Min

Sample Source FLOWLINE

Rm @ Measured Temp 1.18 @ 25.0 ohm-m

Rmf @ Measured Temp 1.04 @ 25.0 ohm-m

Rmc @ Measured Temp 1.32 @ 25.0 ohm-m

Source Rmf / Rmc PRESS FILTER

Rm @ BHT 0.78 @ 48.0 ohm-m

Time Since Circulation 6 HRS

Max Recorded Temp 48.00 deg C

Equipment Name COMPACT

Equipment / Base 13124 GPR

Recorded By G. SINGER

Witnessed By A. AHMED

CIRC. STOP TIME 01:30-FEB-15

Last Line

BOREHOLE RECORD

Last Edited: 15-FEB-2007 05:01

Bit Size millimetres	Depth From metres	Depth To metres
311.000	0.00	430.00
200.000	430.00	1449.00

CASING RECORD

Type	Size millimetres	Depth From metres	Shoe Depth metres	Weight Kg/metre
SURFACE	219.100	0.00	430.00	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 INTERSONIC CRANK
MTC: SIX LEAF CENTRALIZER

5) SERVICE ORDER #: 30073028 SAP #: 4147101 # FIELD PRINTS = 3

6) RIG: PD 129

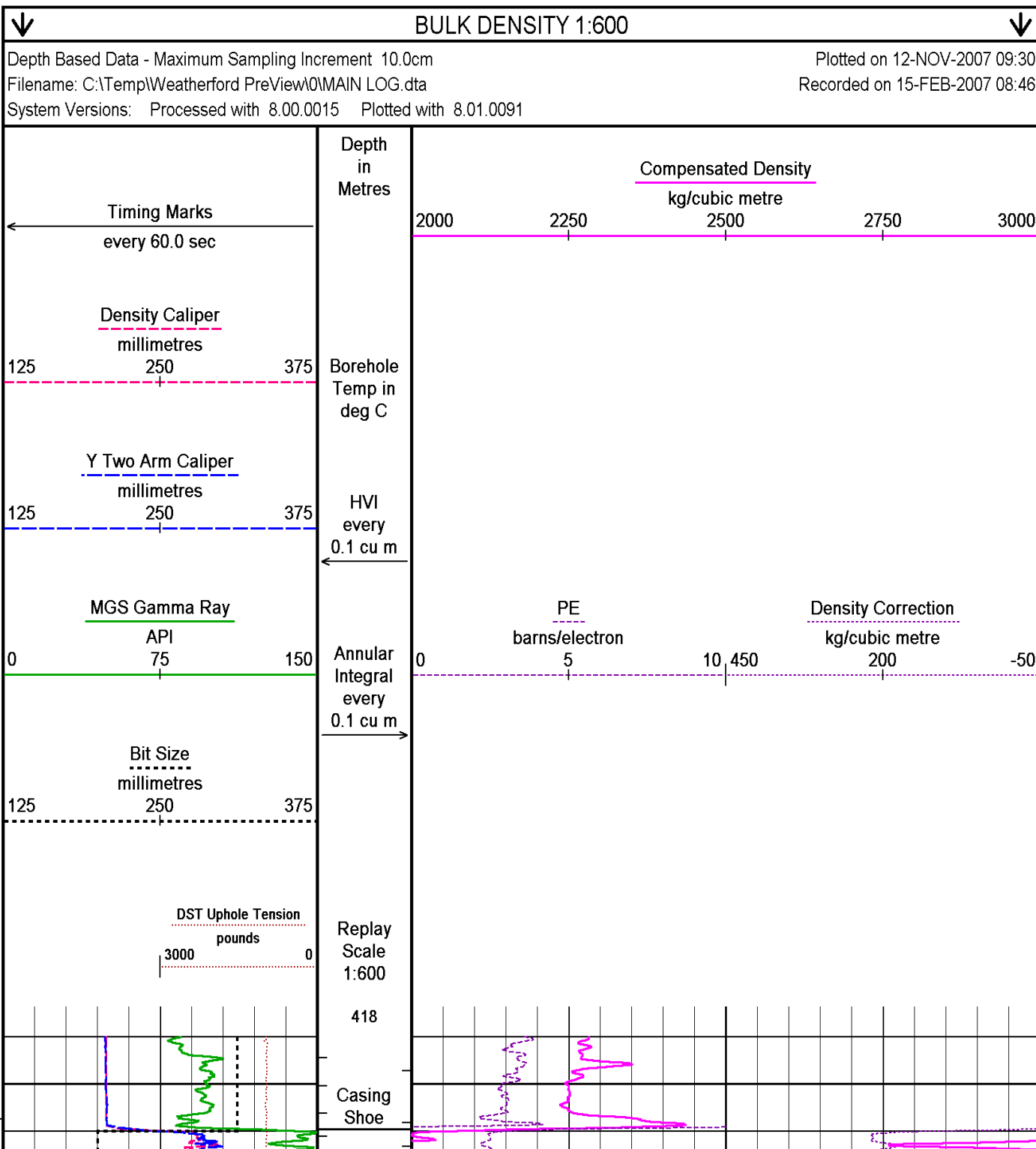
7) HOLE AND CEMENT VOLUMES CALCULATED USING DENSITY AND 2-ARM CALIPERS :

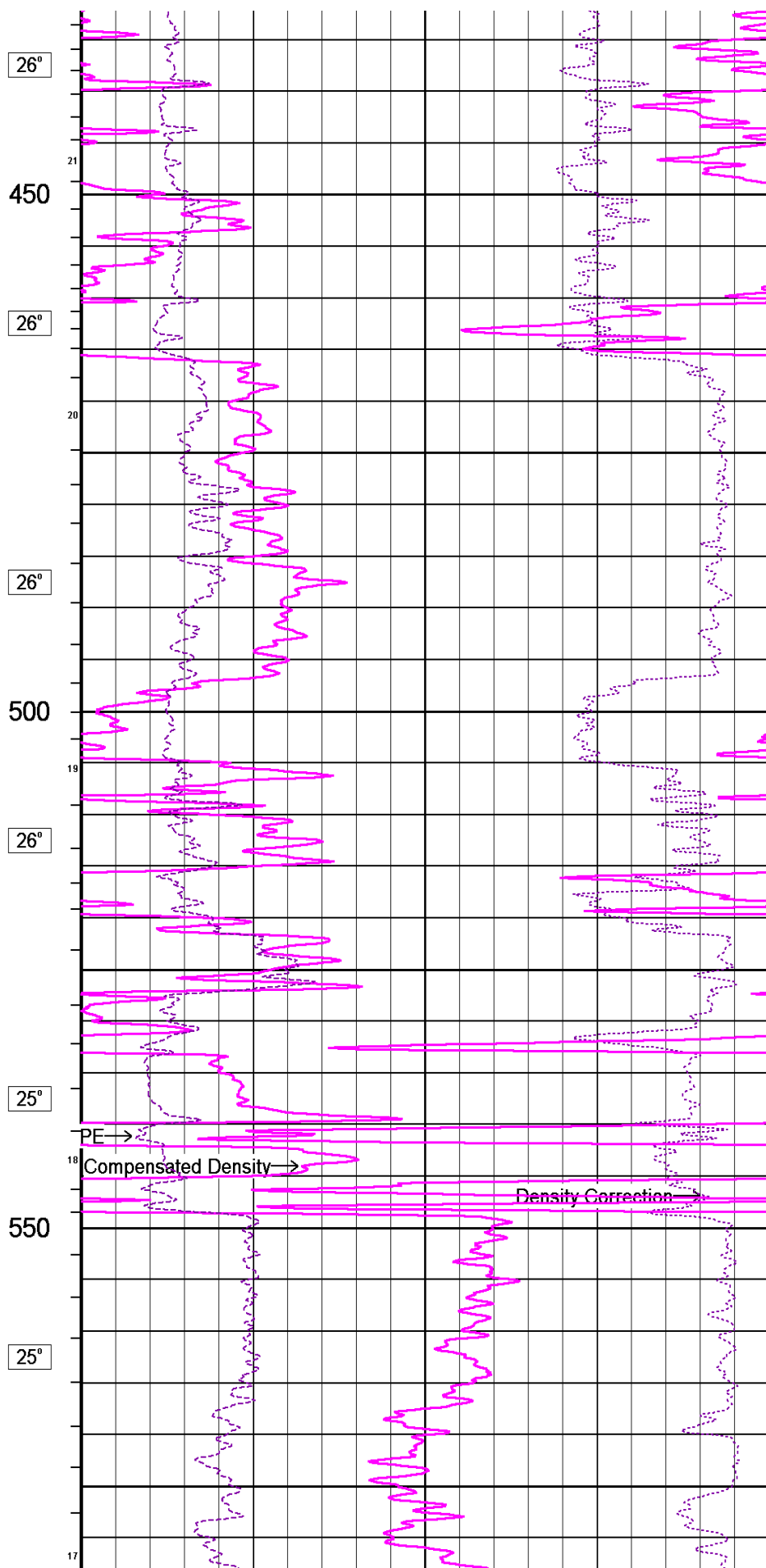
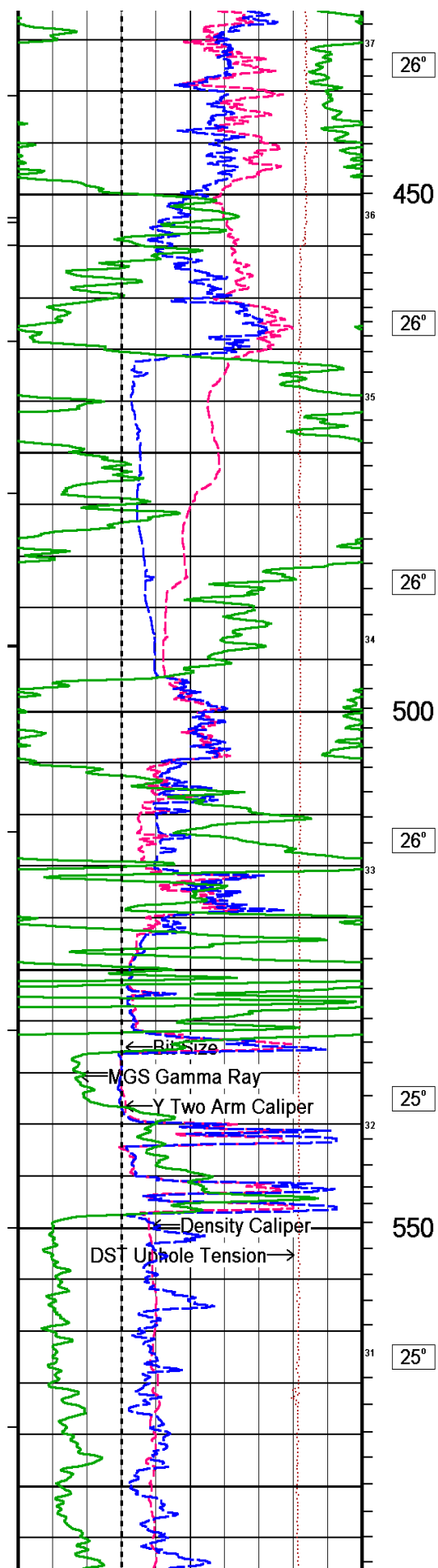
HOLE VOLUME = 37.4 CU.M.

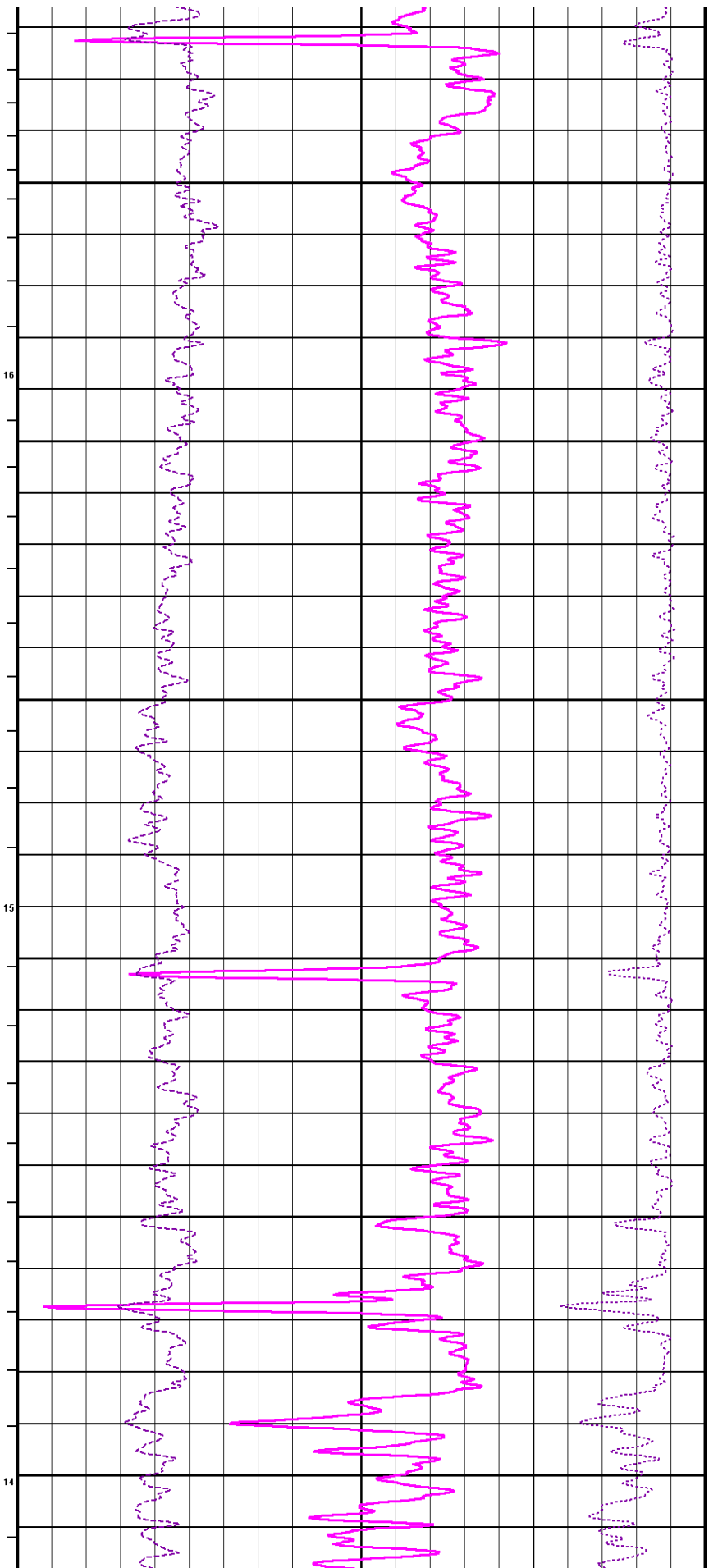
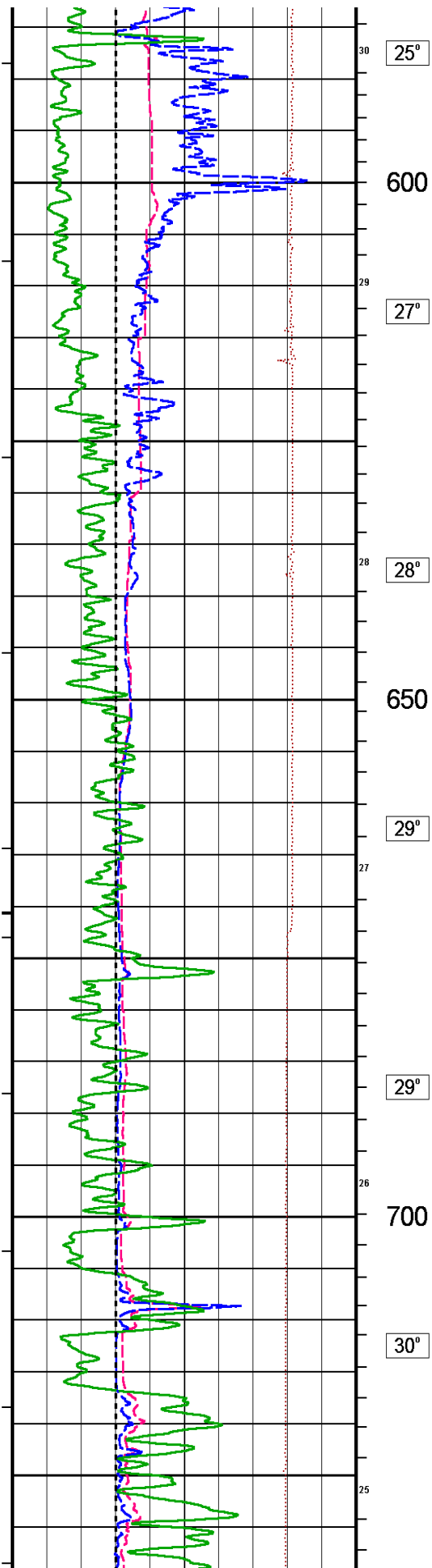
ANNULAR VOLUME USING 139.7 MM PRODUCTION CASING = 21.8 CU.M

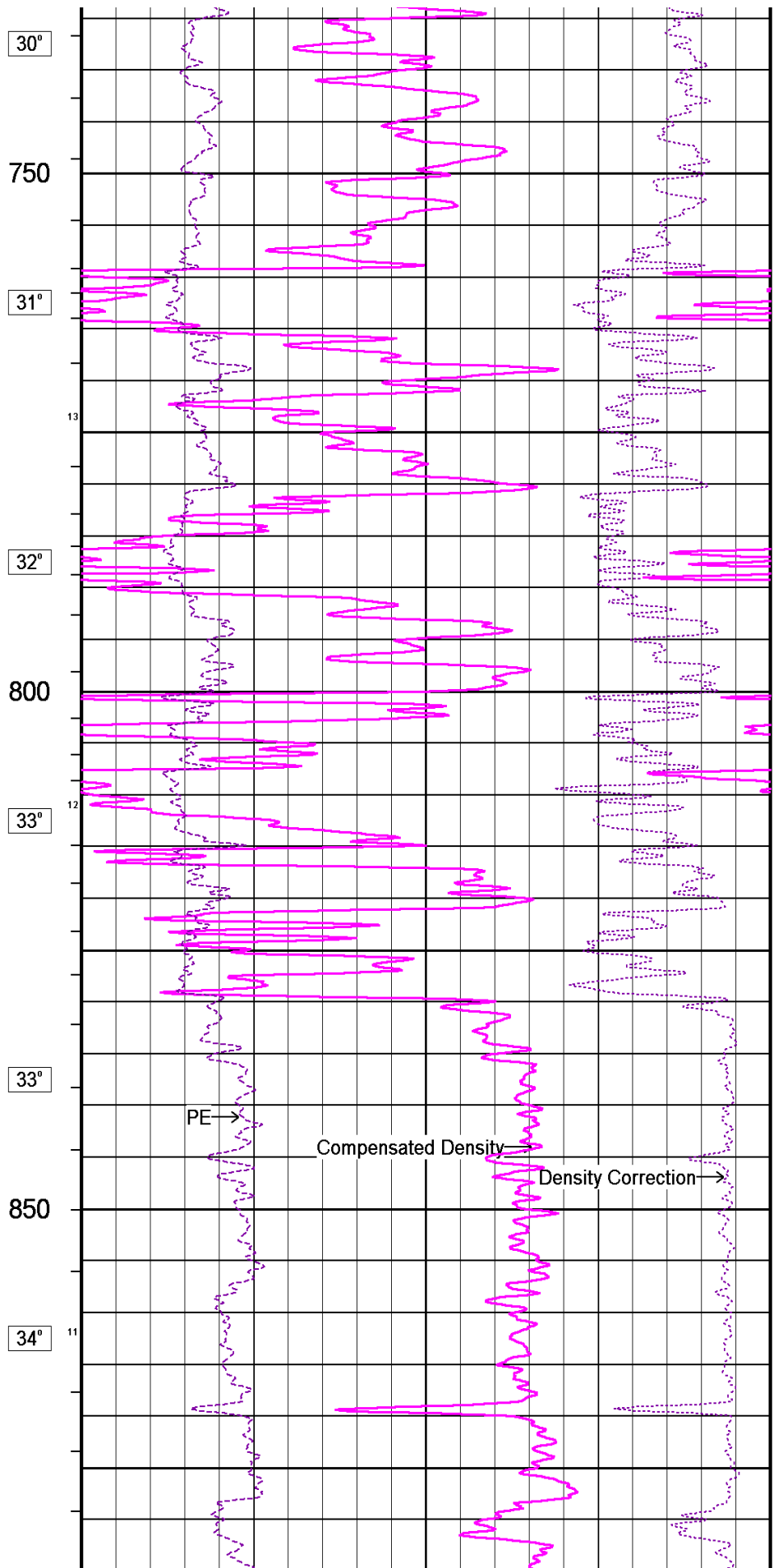
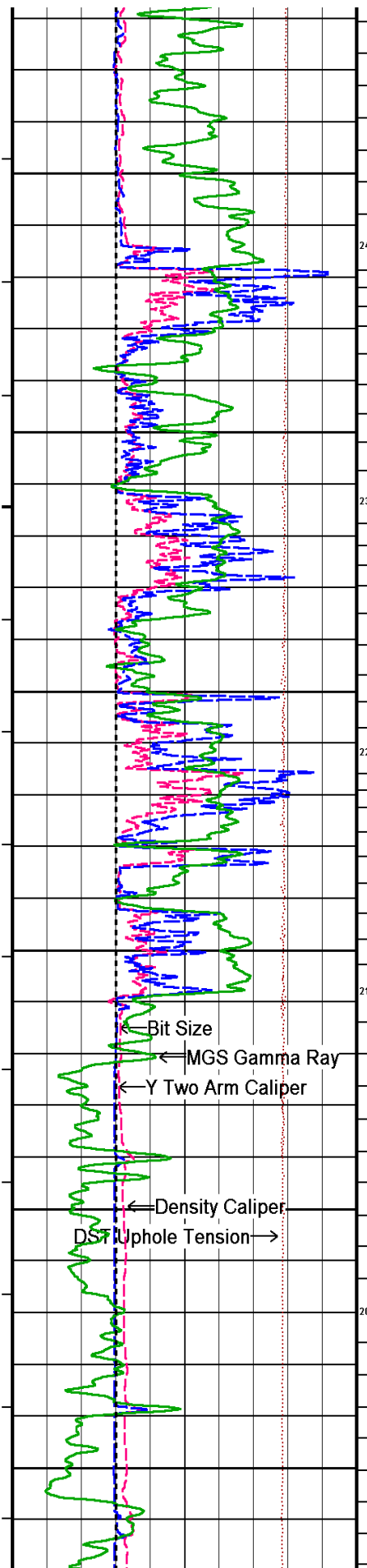
8) SONIC FREE PIPE FOUND FROM 352M - 357M

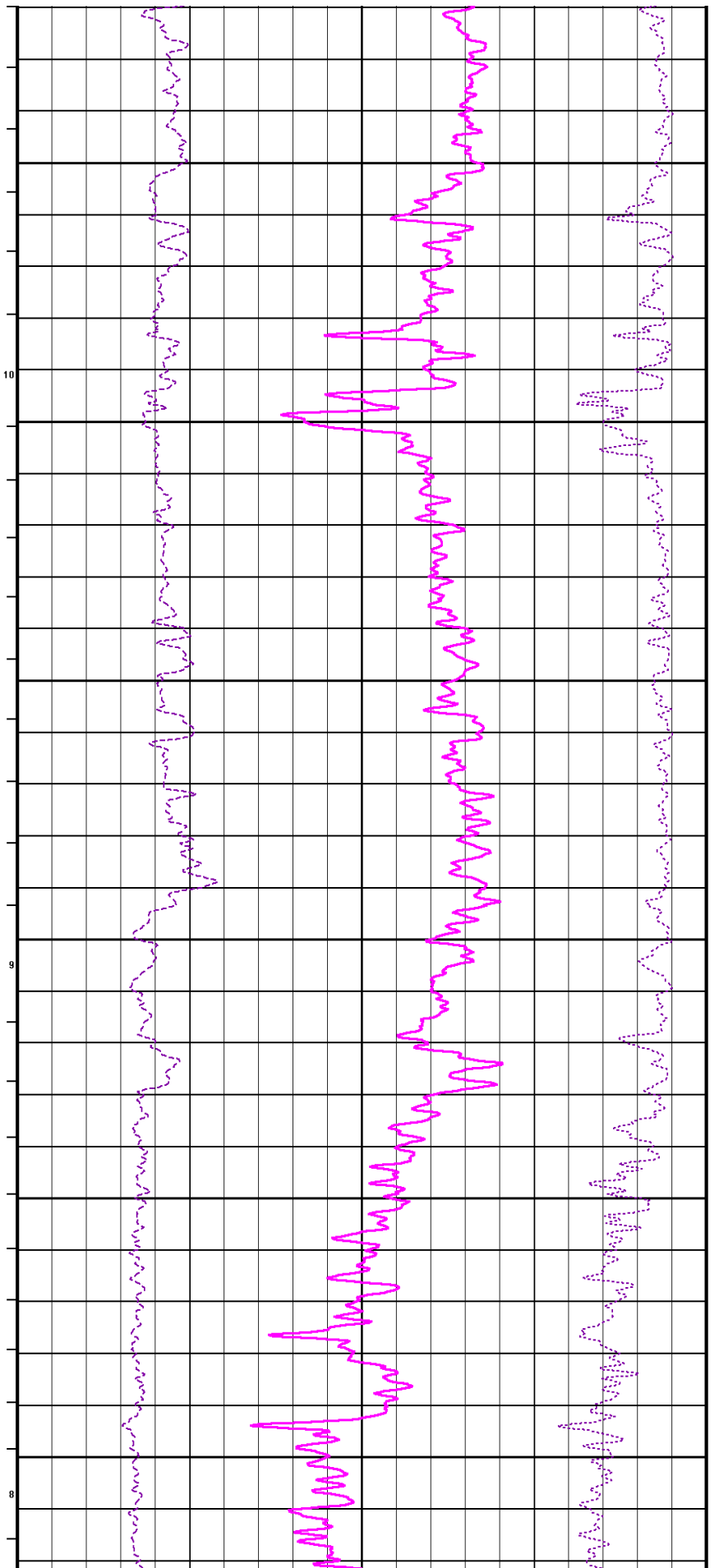
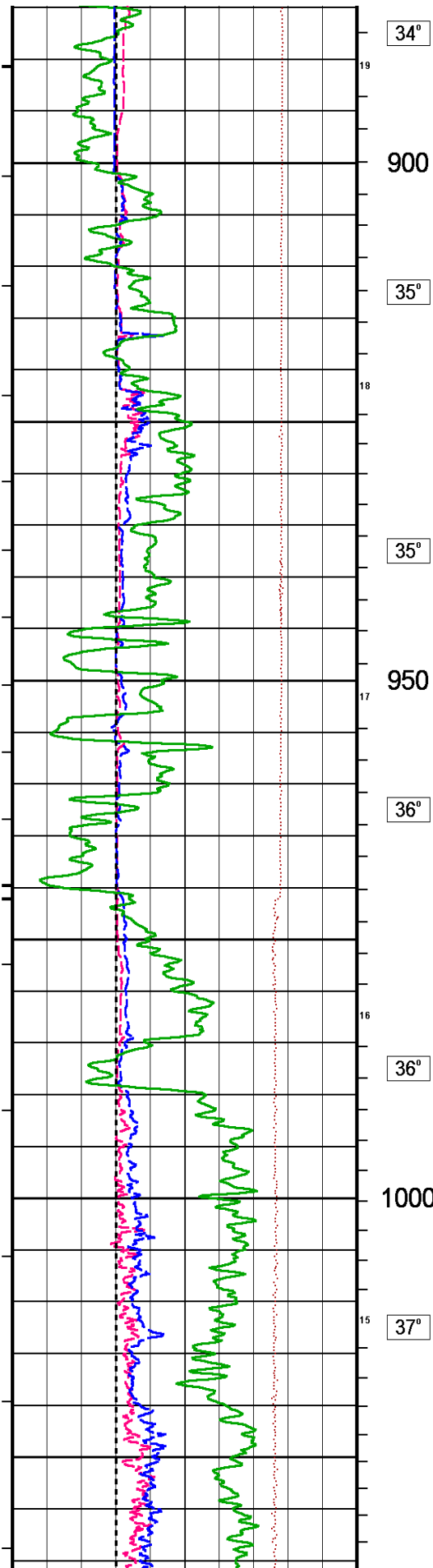
All interpretations are opinions based on inferences from electrical or other measurements and we cannot, and do not, guarantee the accuracy or correctness of any interpretations, and we shall not, except in the case of gross or wilful negligence on our part, be liable or responsible for any loss, costs,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

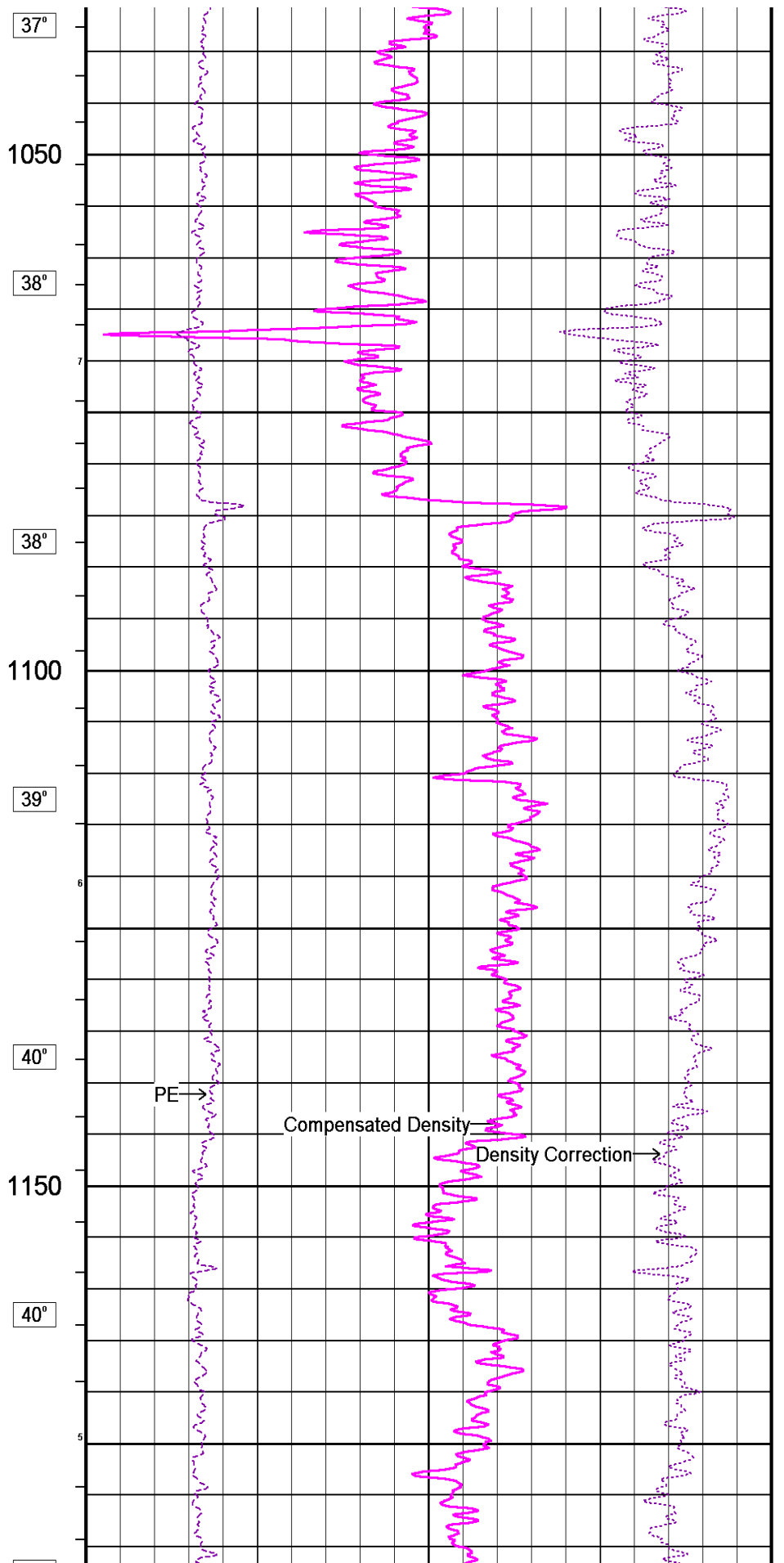
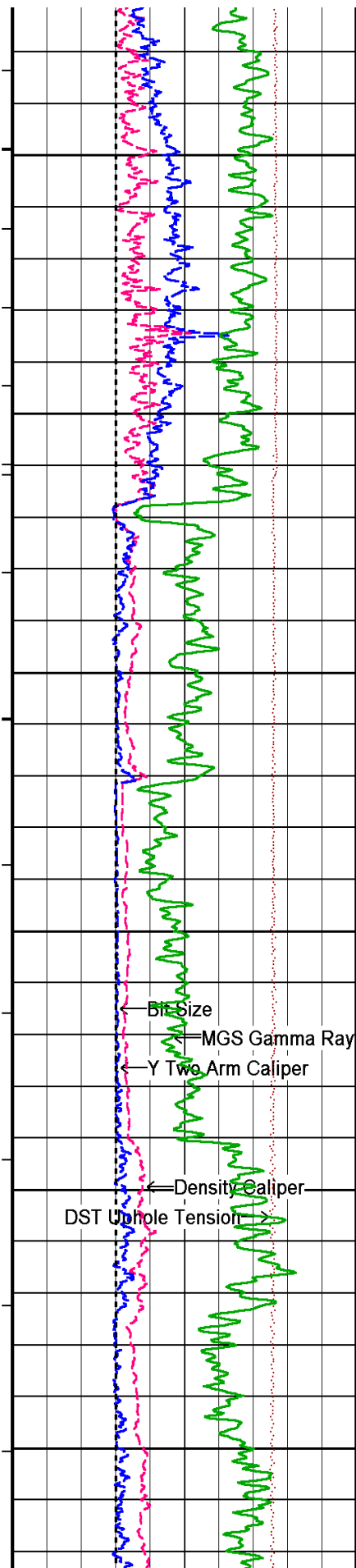


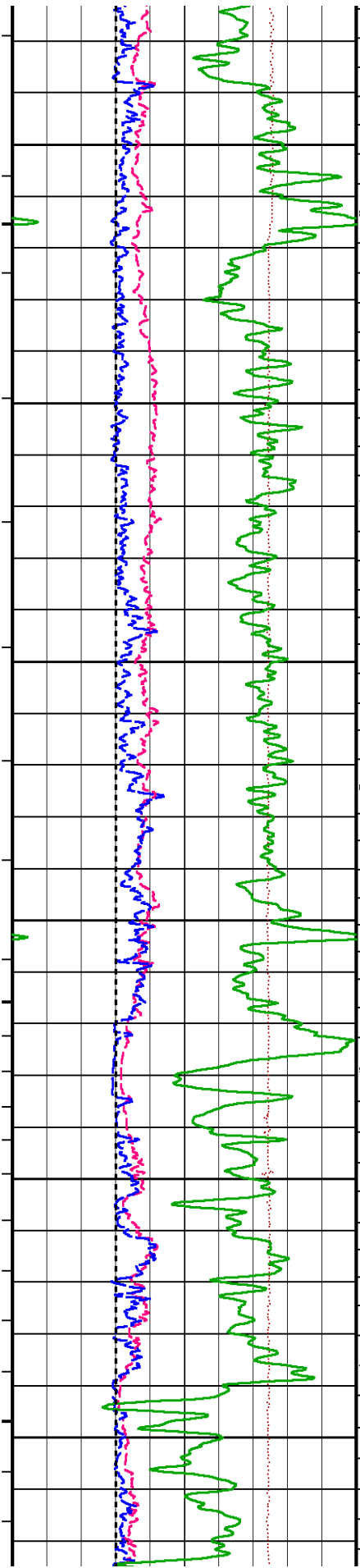




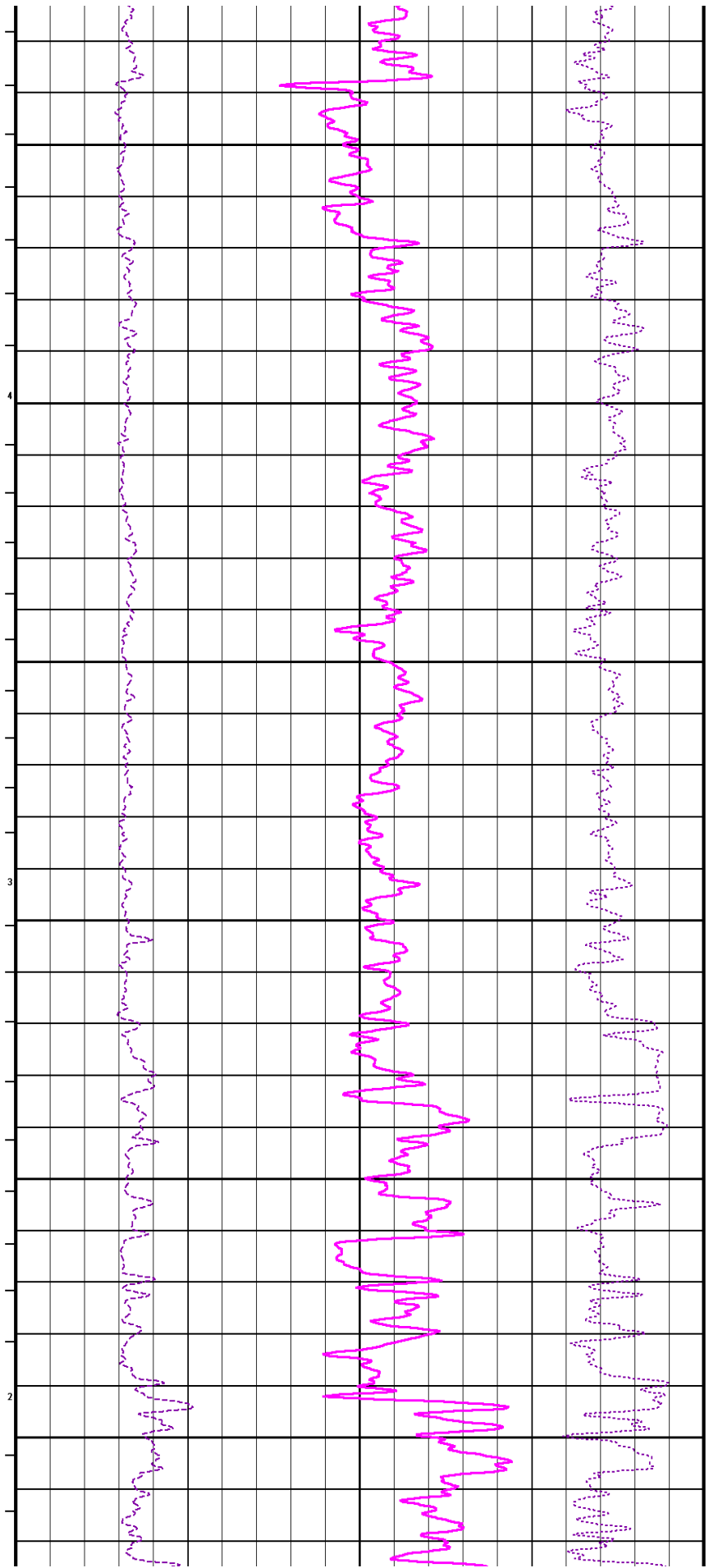


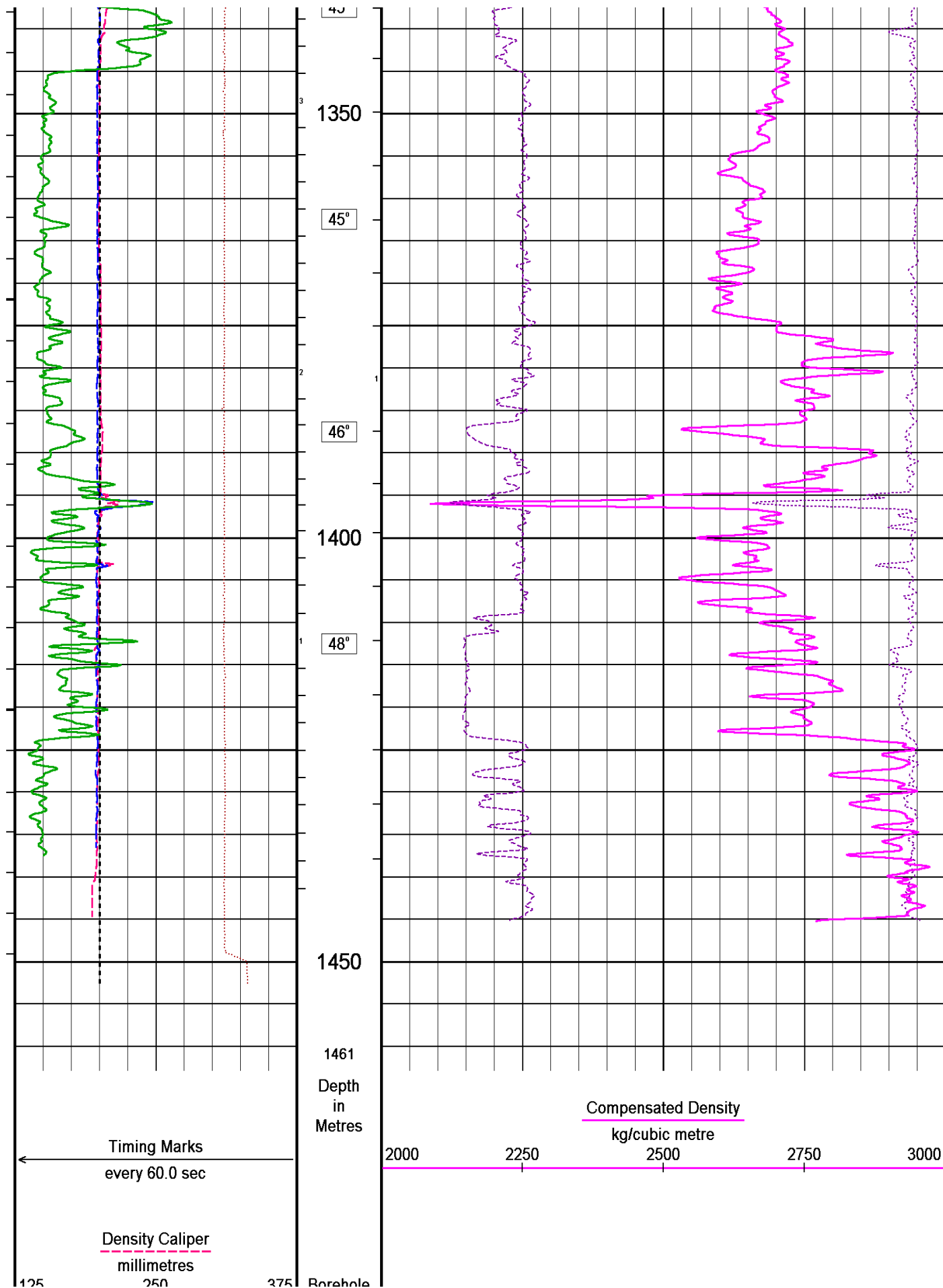


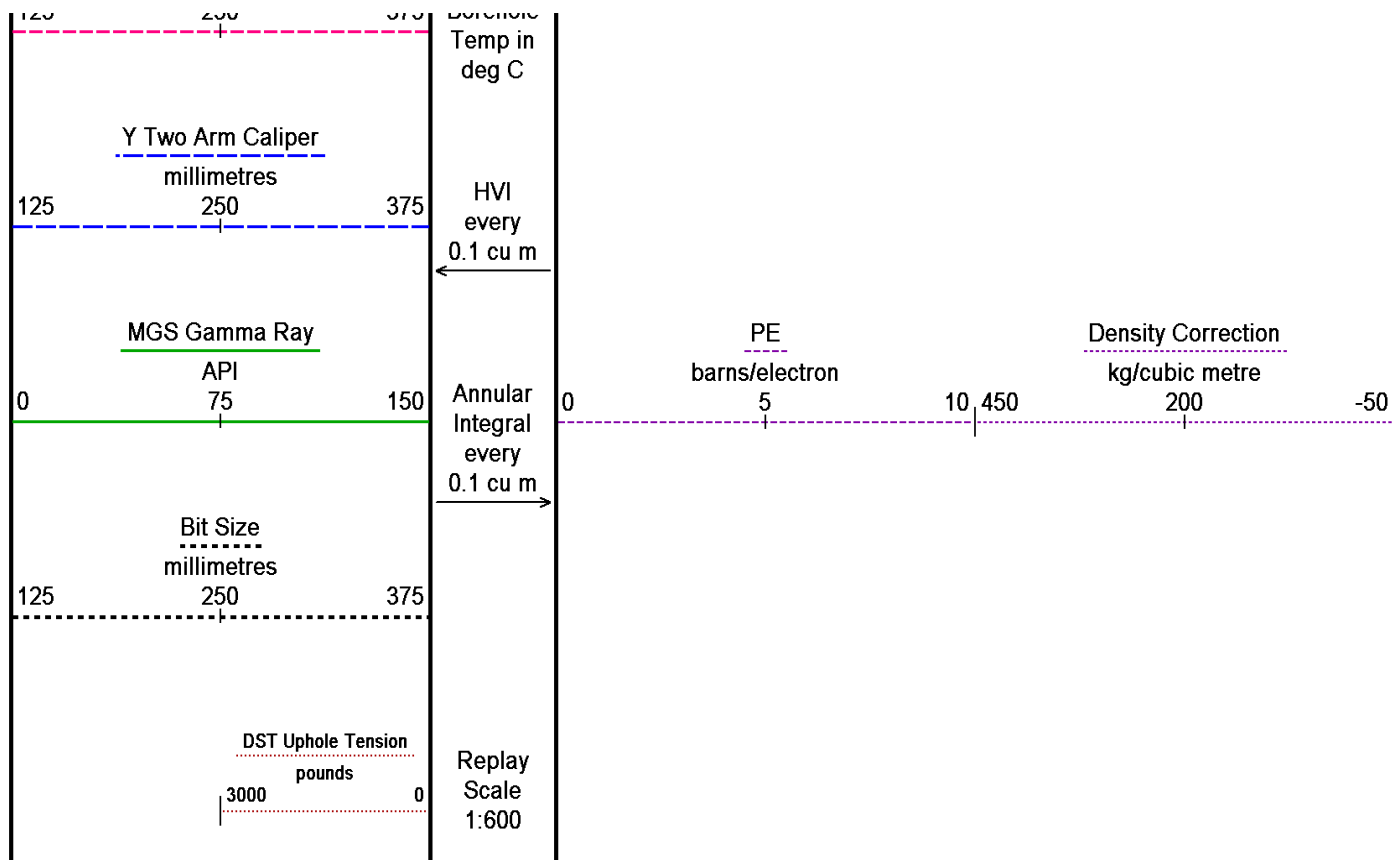




41° 1200 41° 42° 1250 43° 43° 1300 44° 45°







Depth Based Data - Maximum Sampling Increment 10.0cm

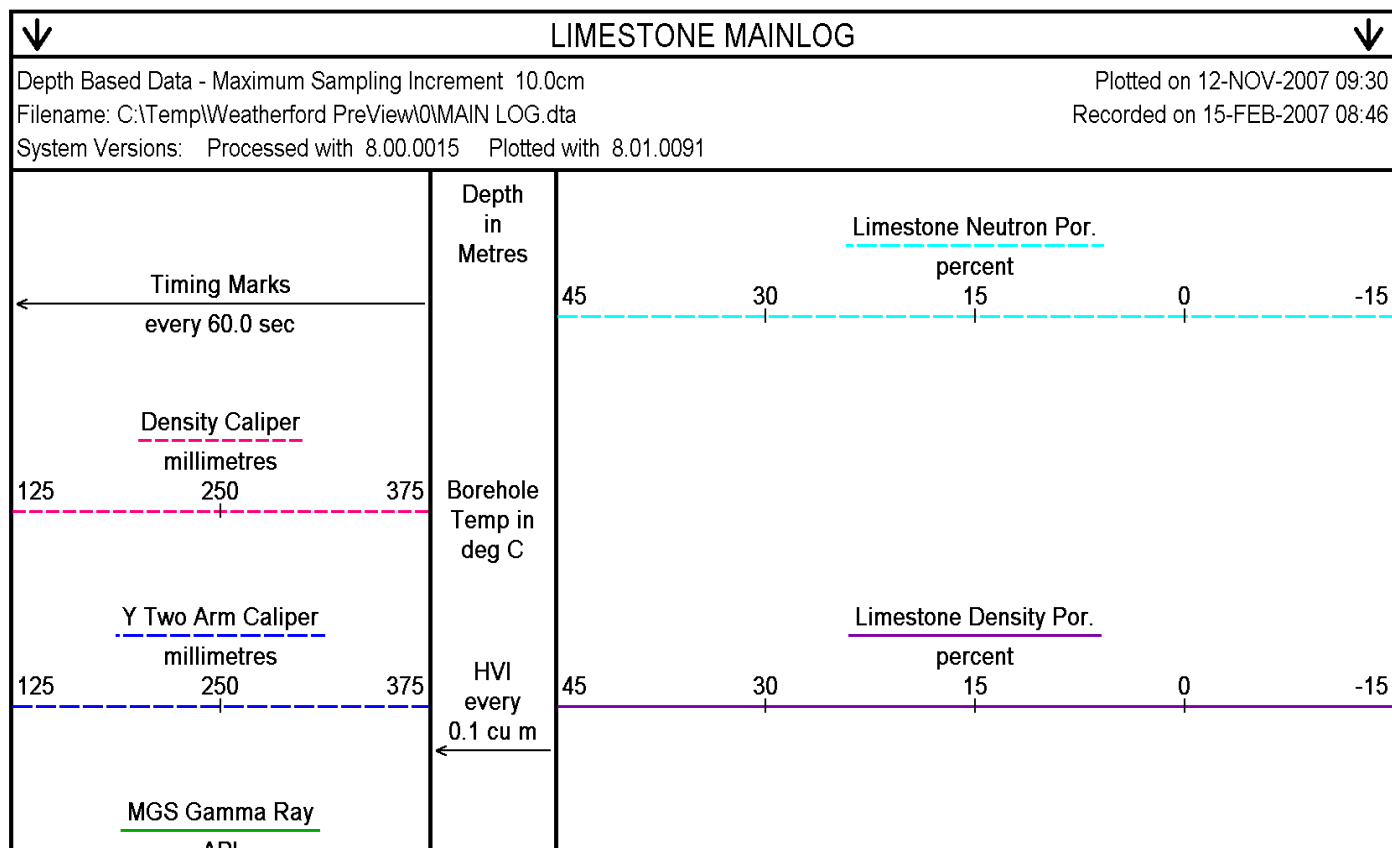
Plotted on 12-NOV-2007 09:30

Filename: C:\Temp\Weatherford PreView\0\MAIN LOG.dta

Recorded on 15-FEB-2007 08:46

System Versions: Processed with 8.00.0015 Plotted with 8.01.0091

↑ BULK DENSITY 1:600 ↑



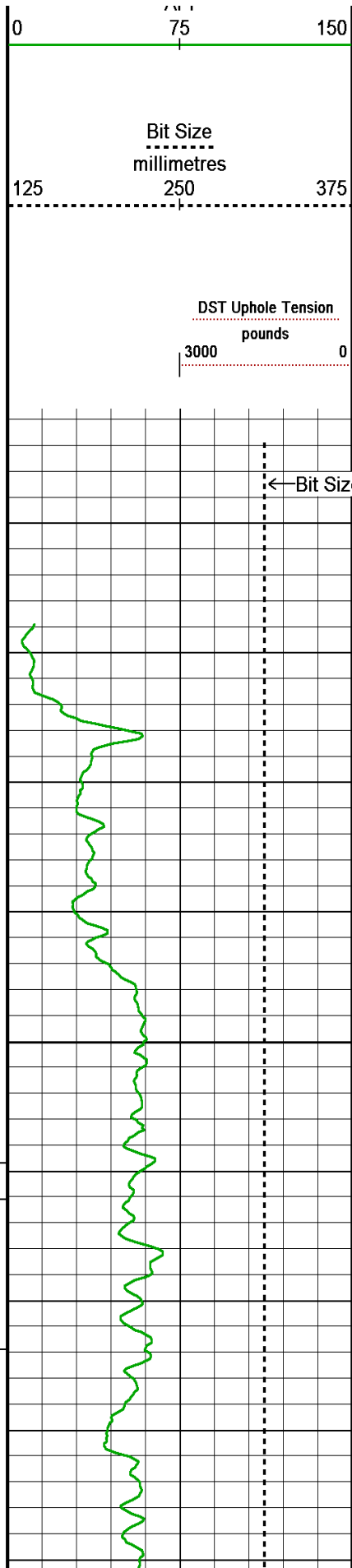
Depth Based Data - Maximum Sampling Increment 10.0cm

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Annular
Integral
every
0.1 cu m

Replay
Scale
1:240

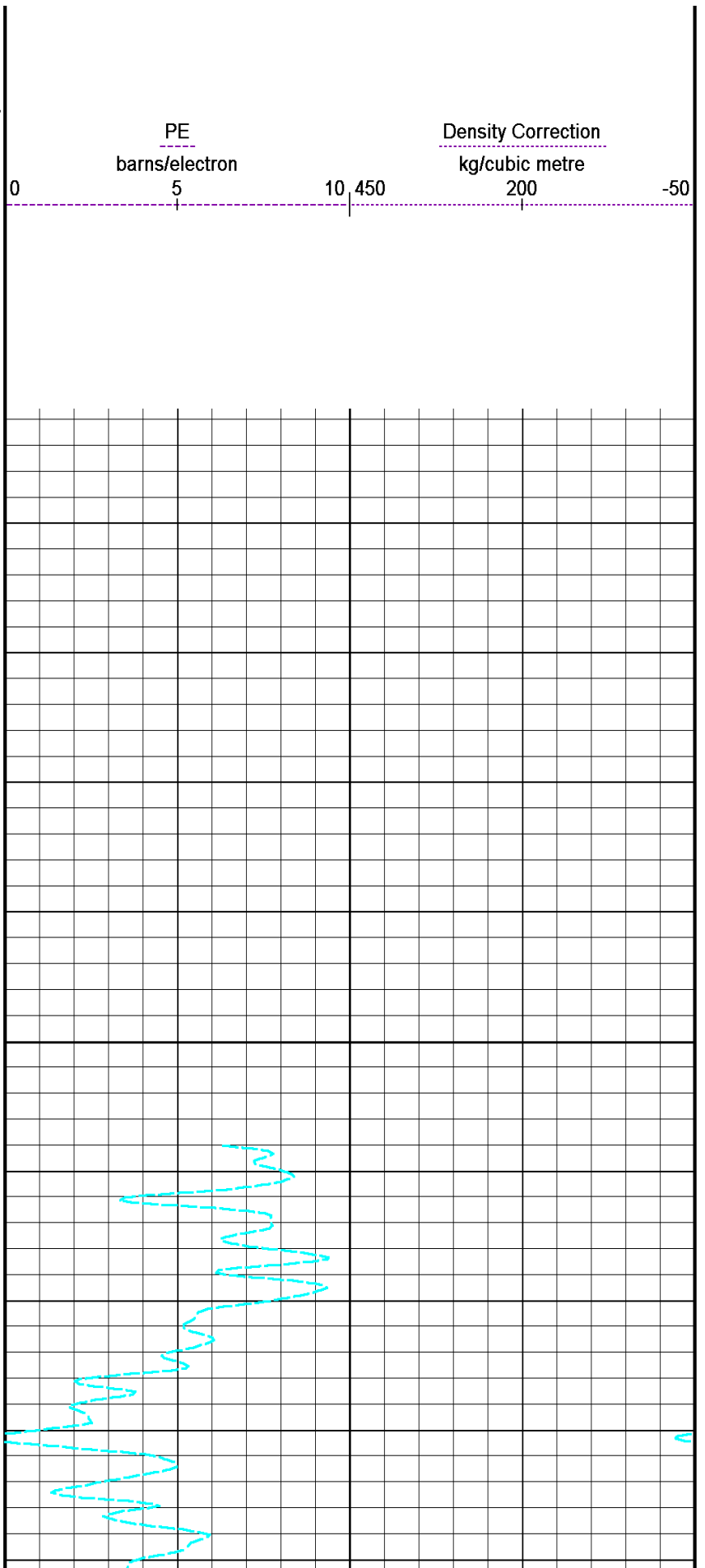
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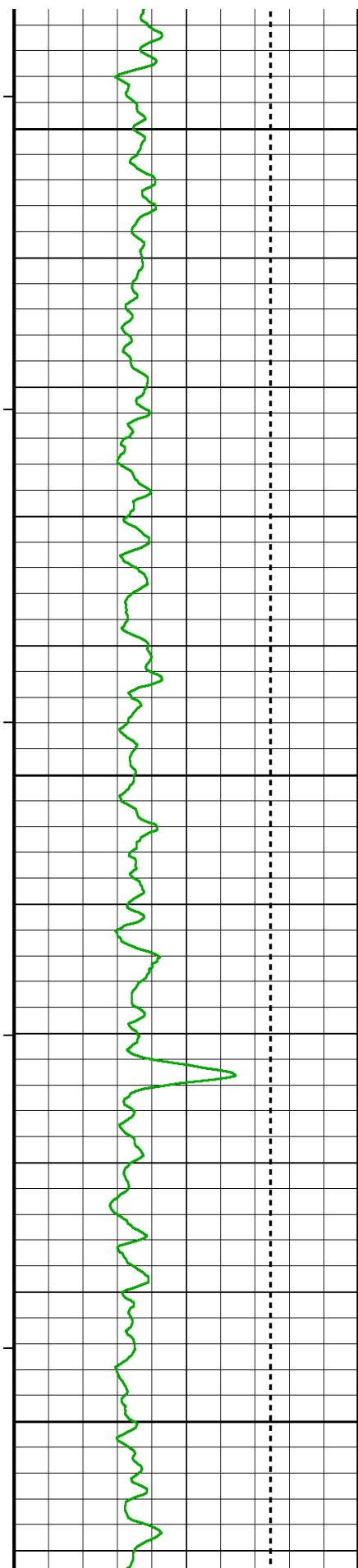
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20

30

40





50

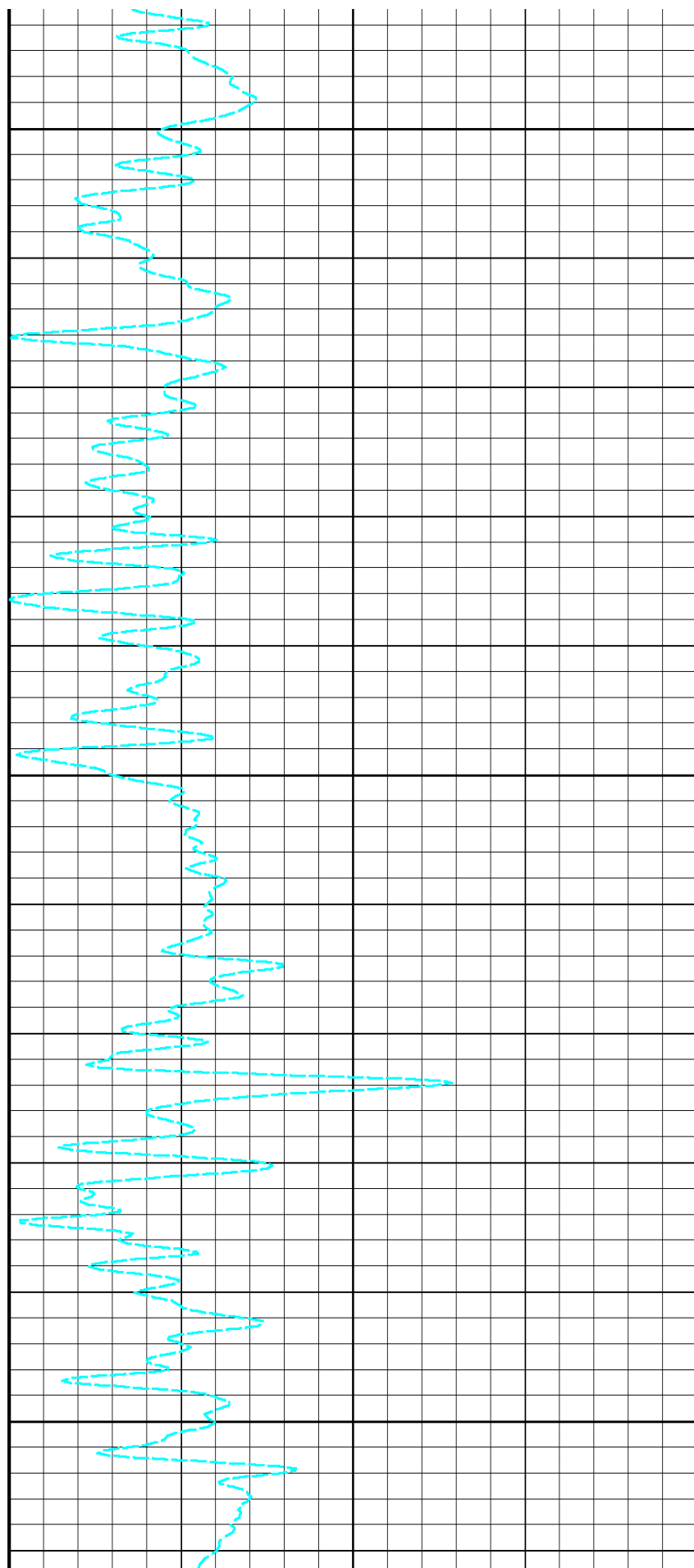
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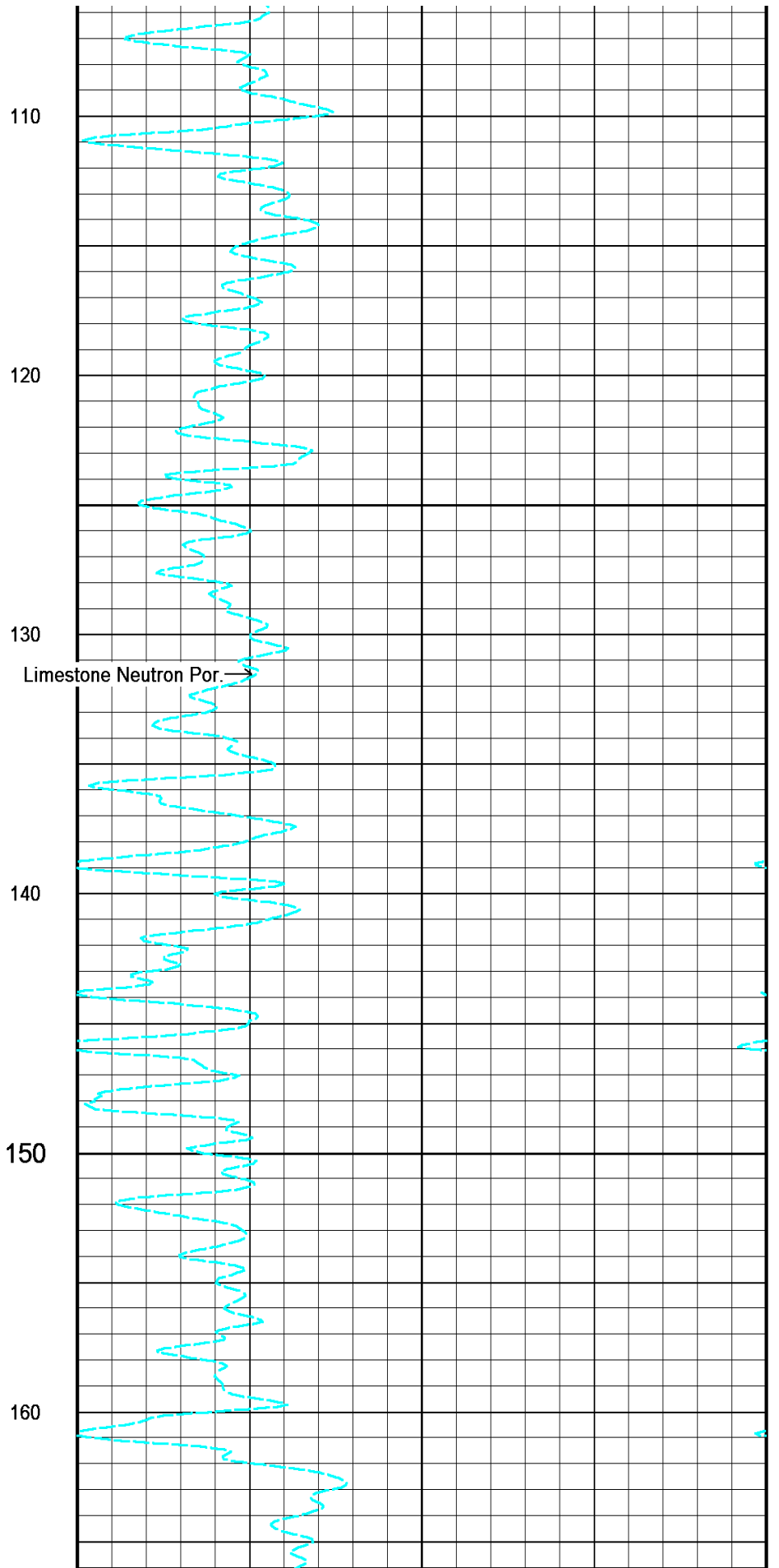
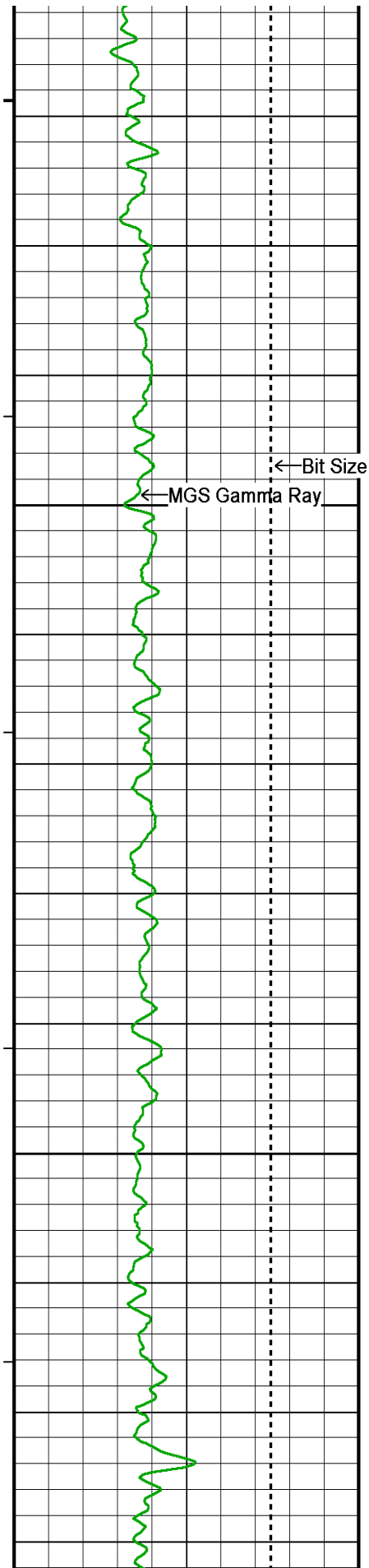
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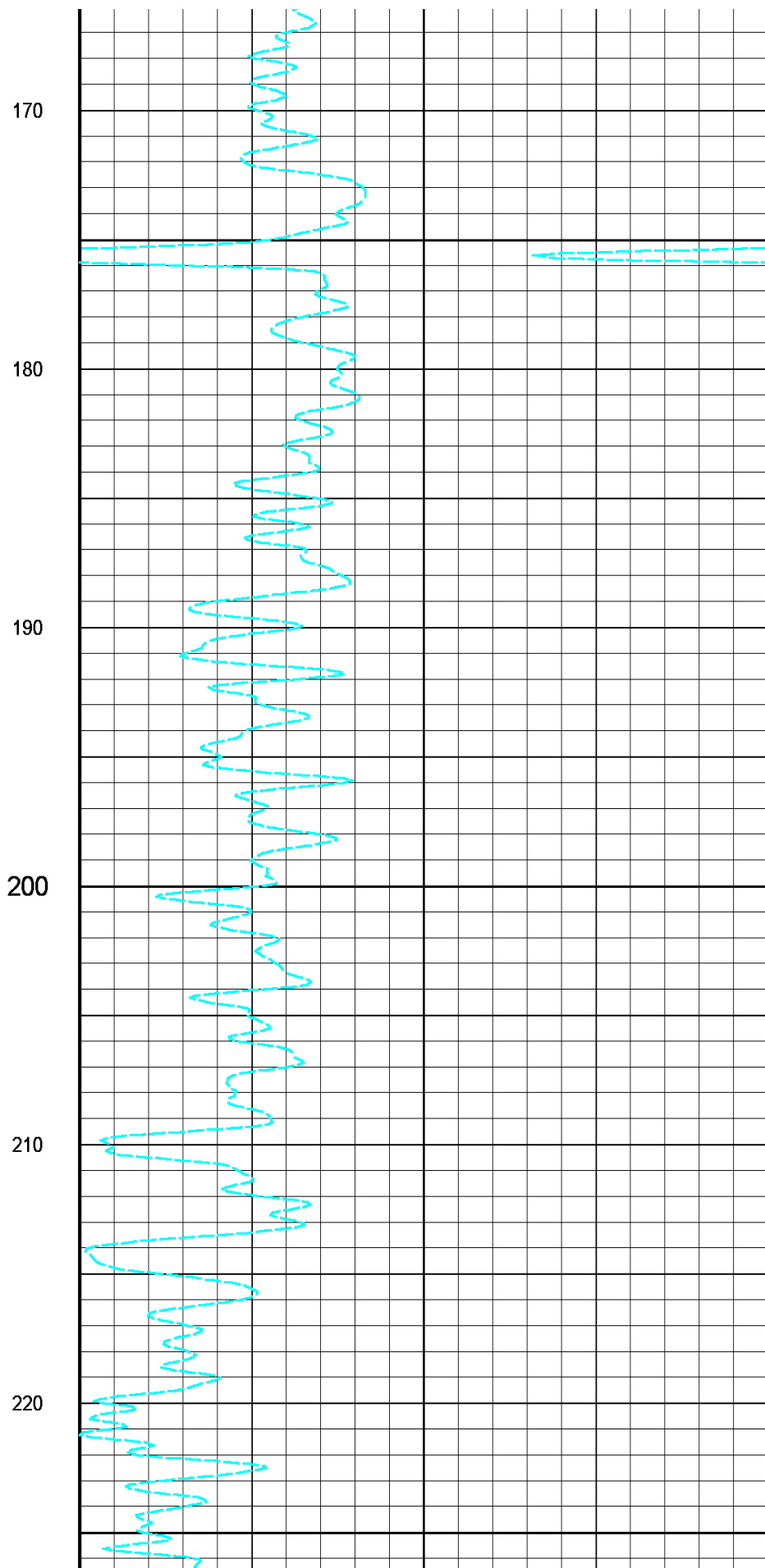
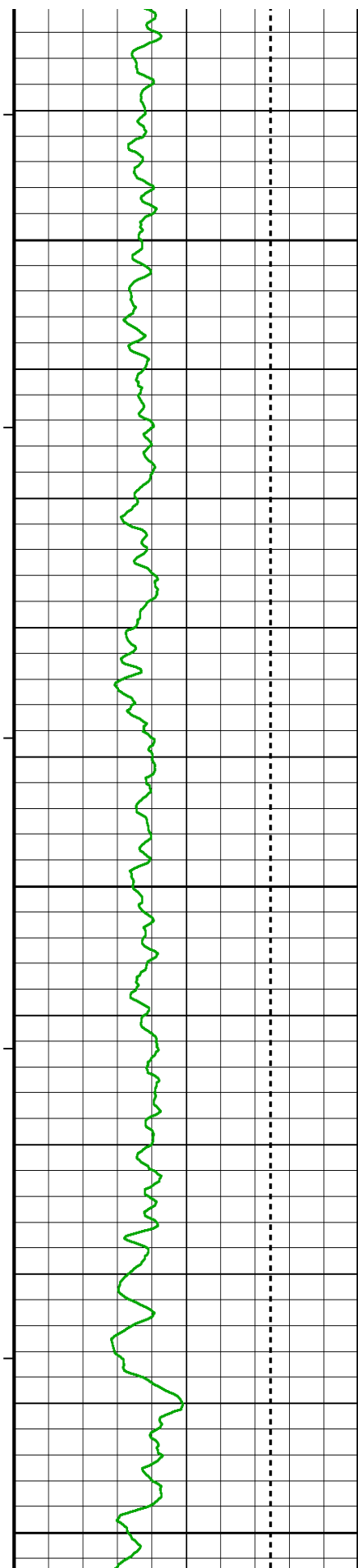
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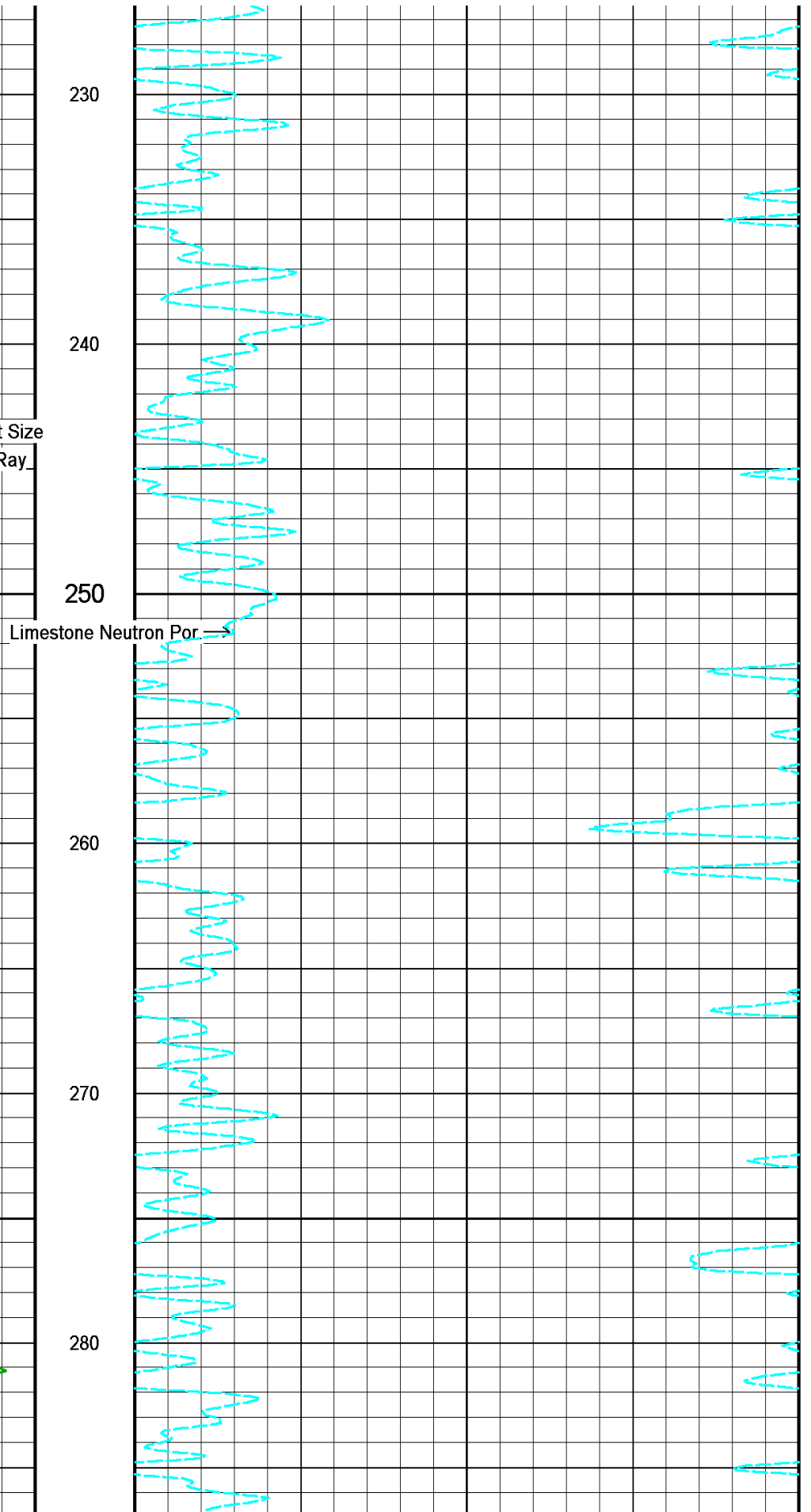
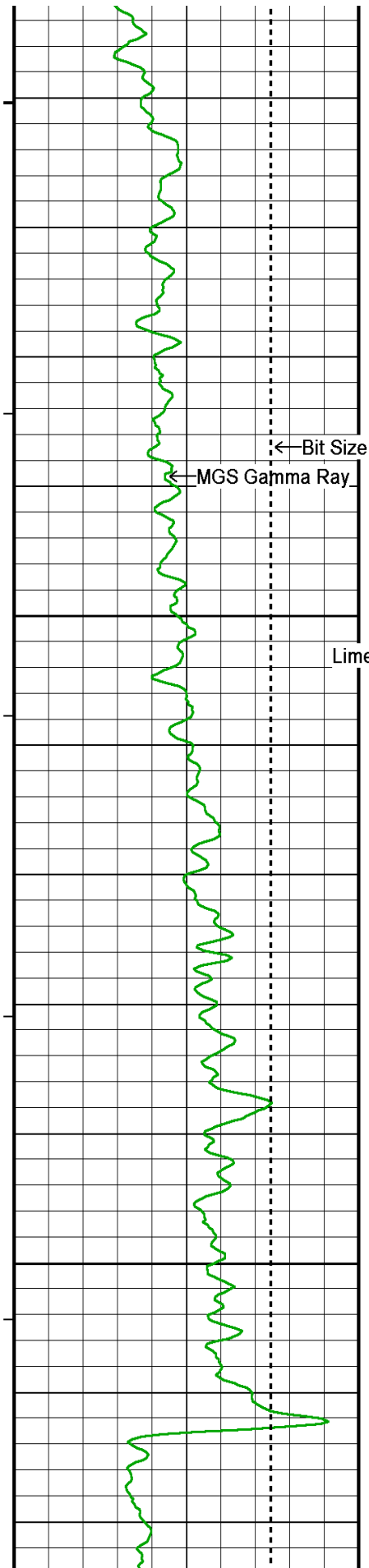
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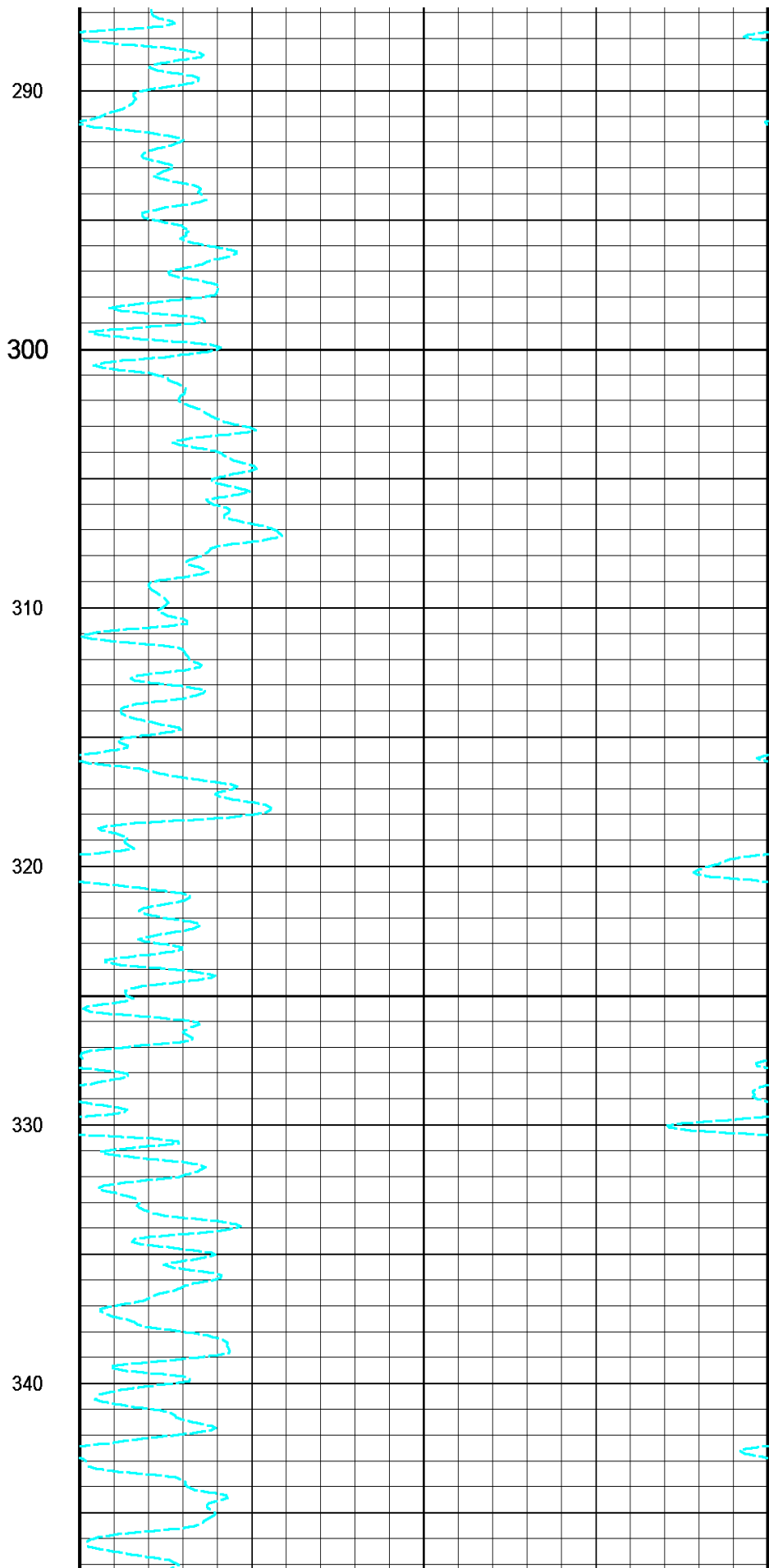
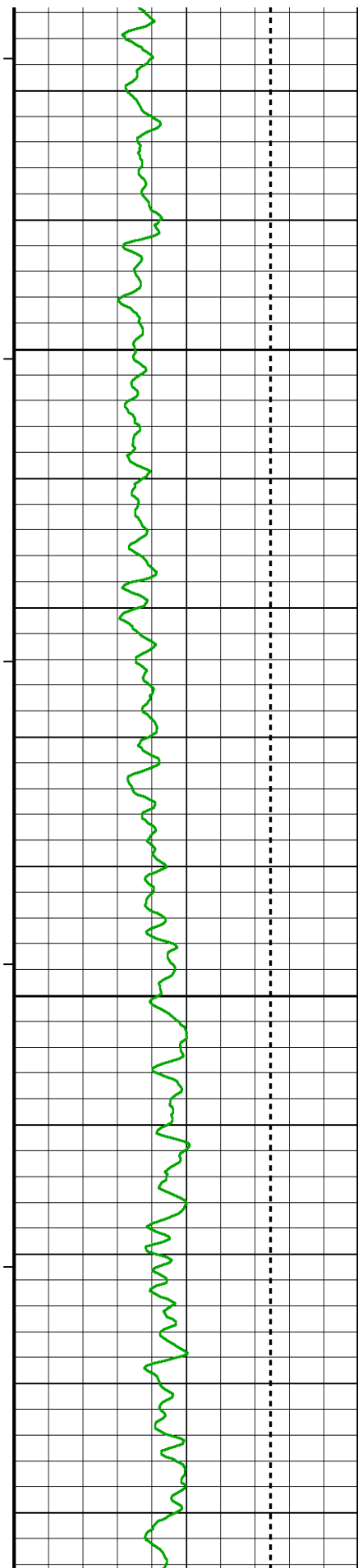
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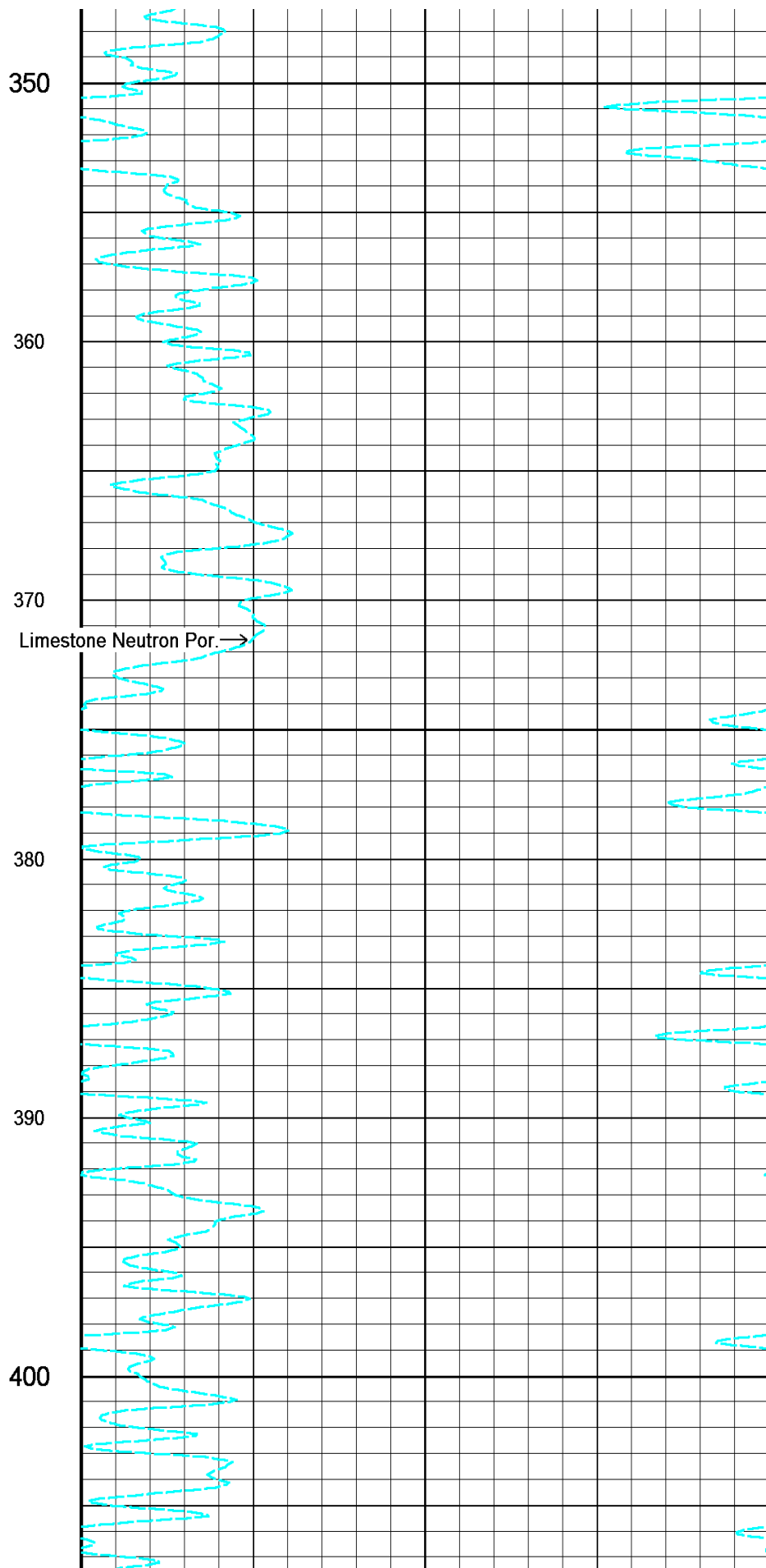
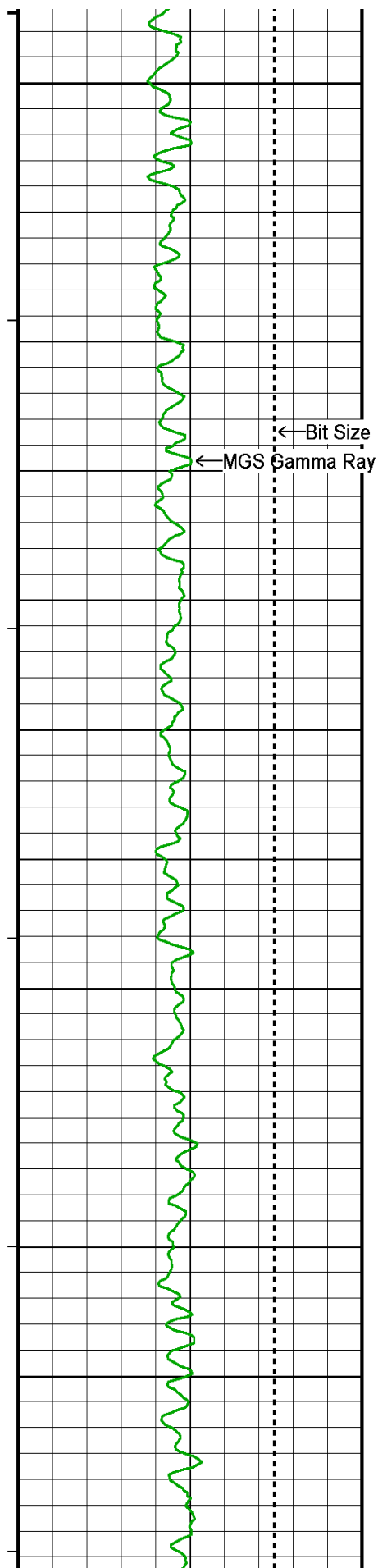


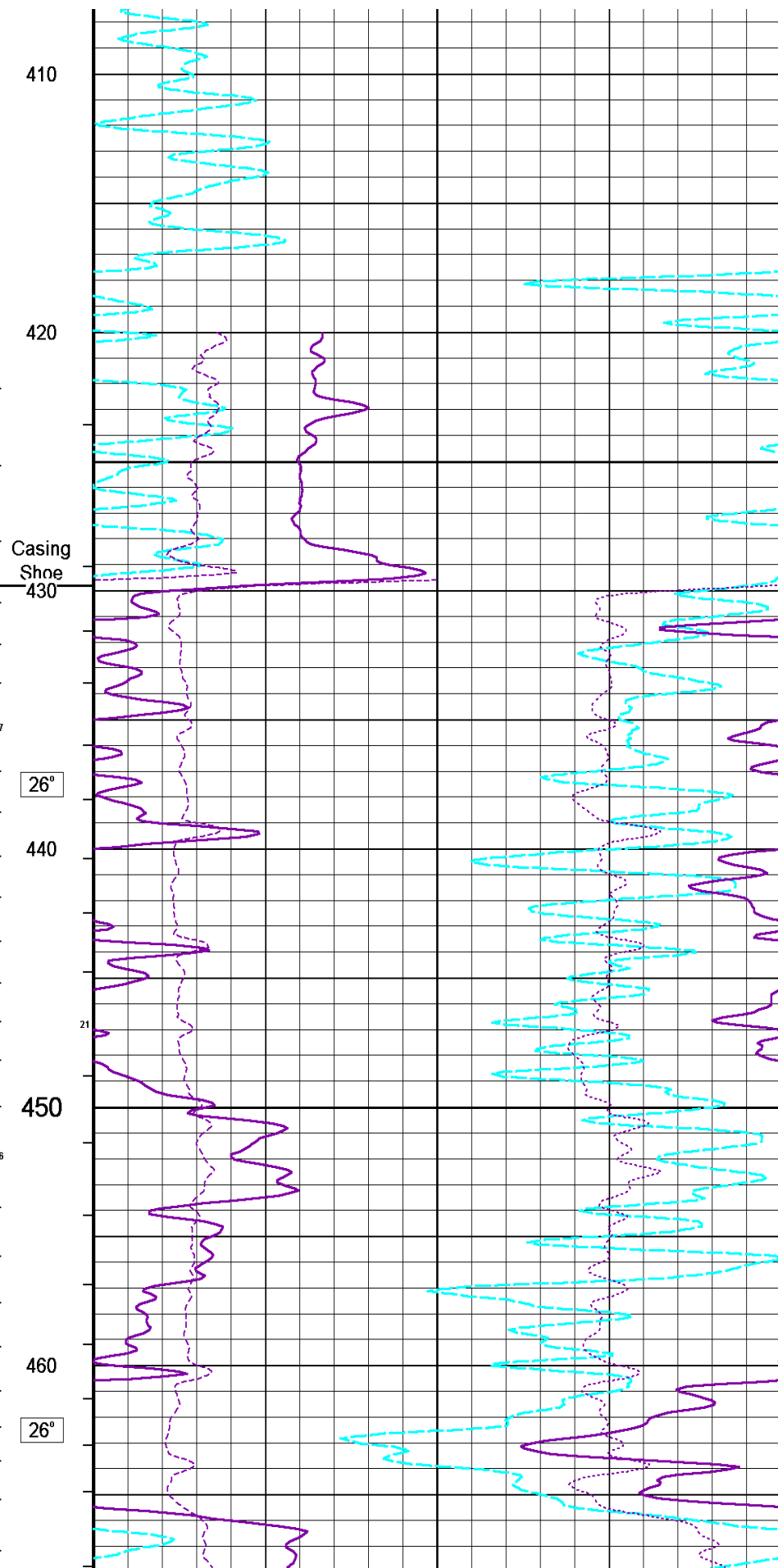
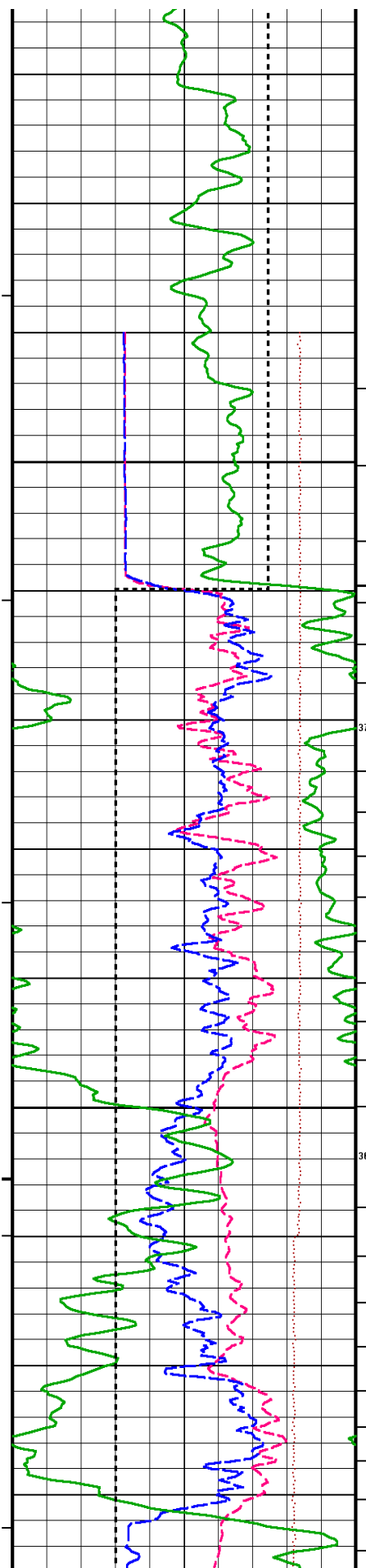


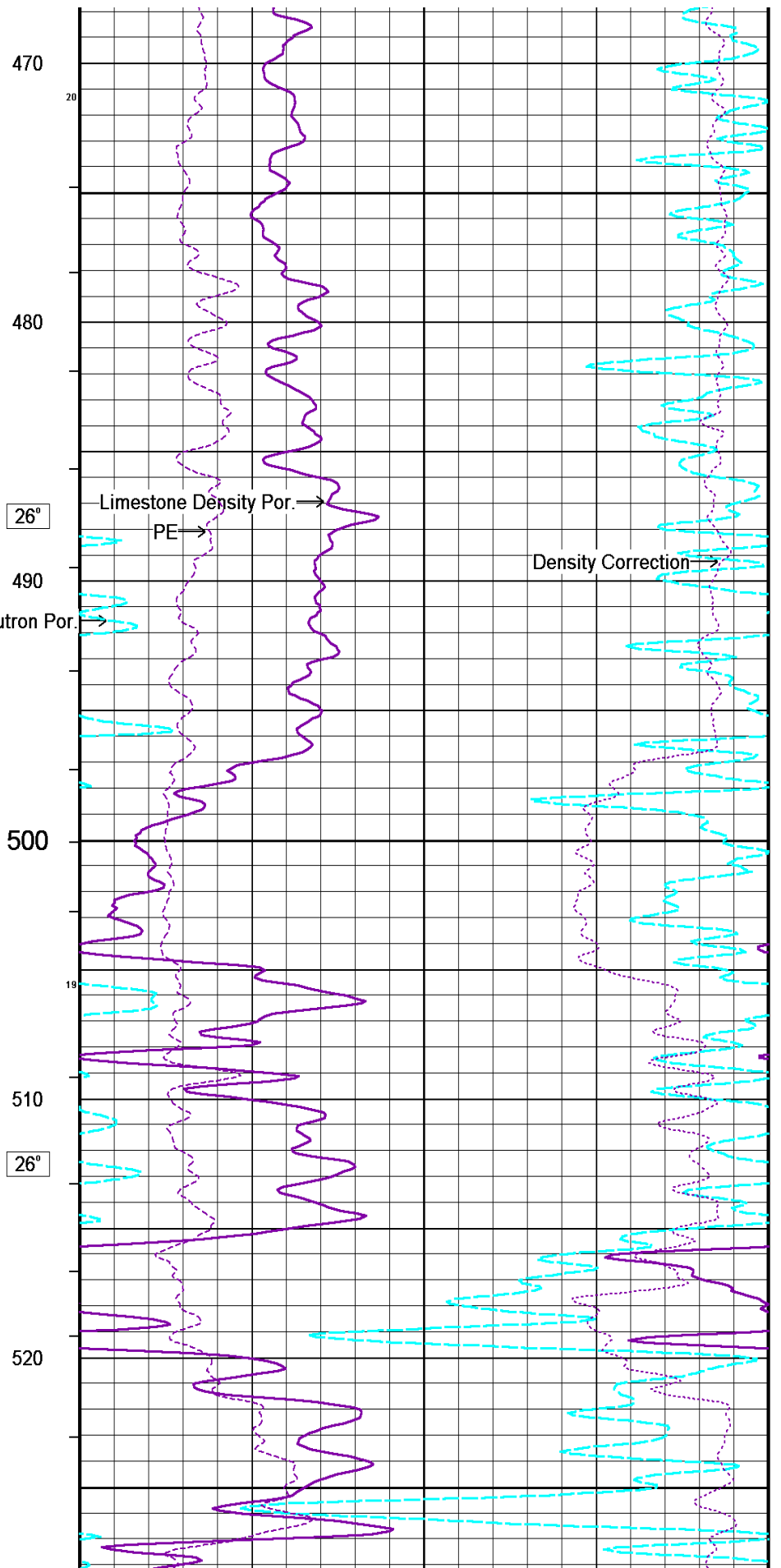
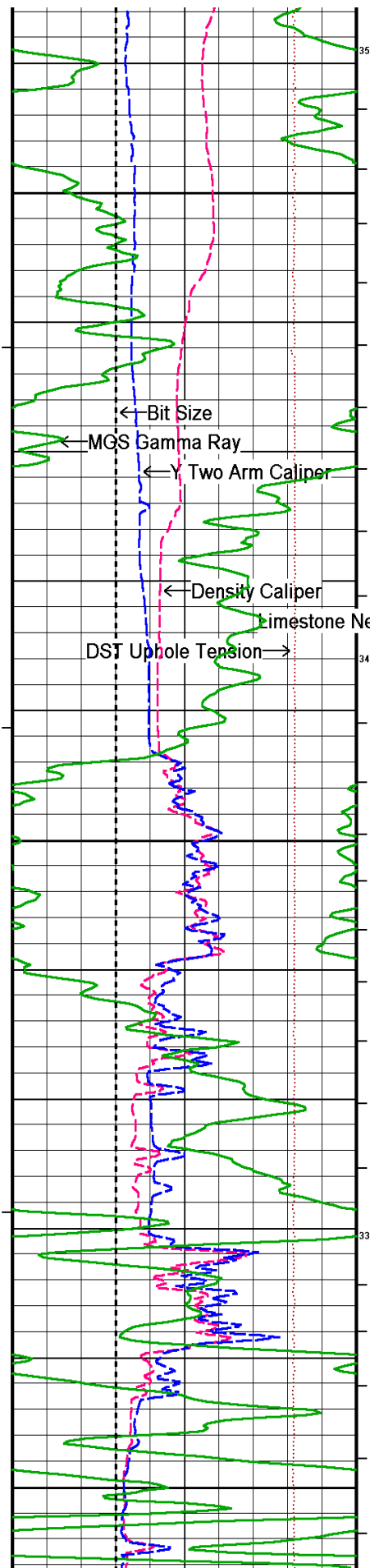


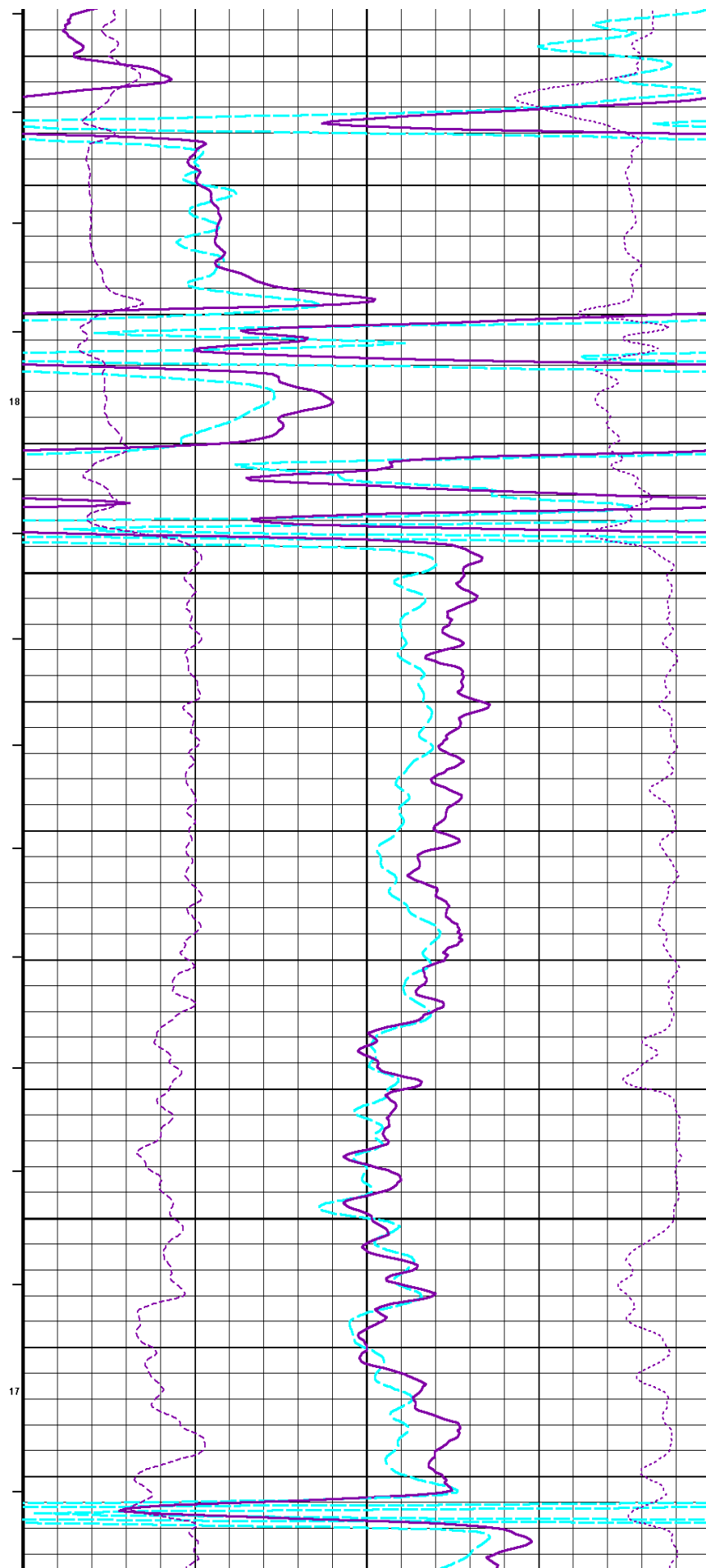
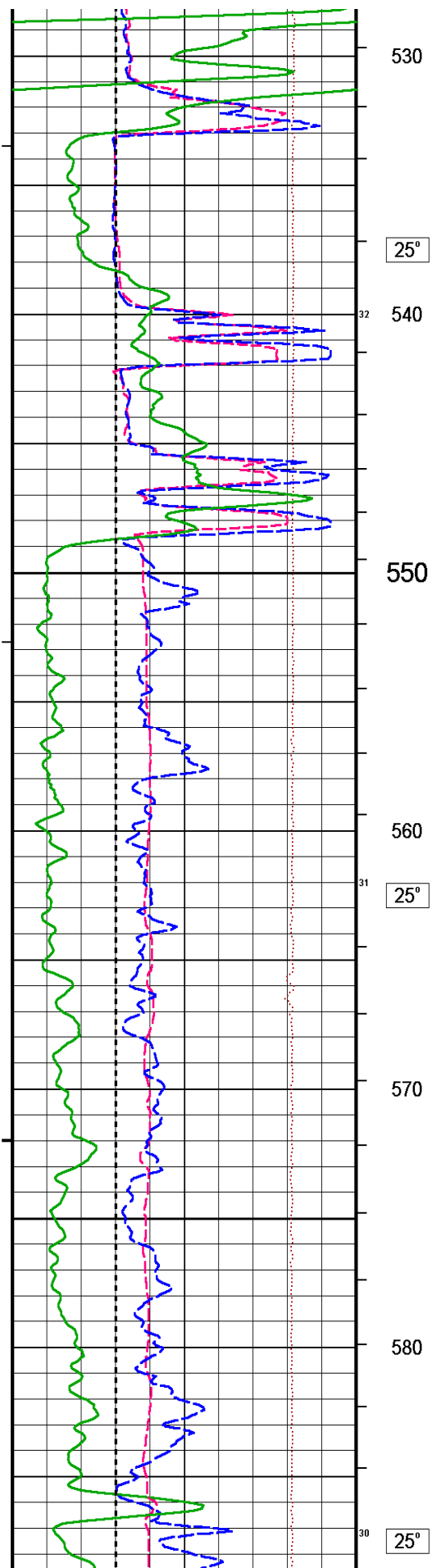


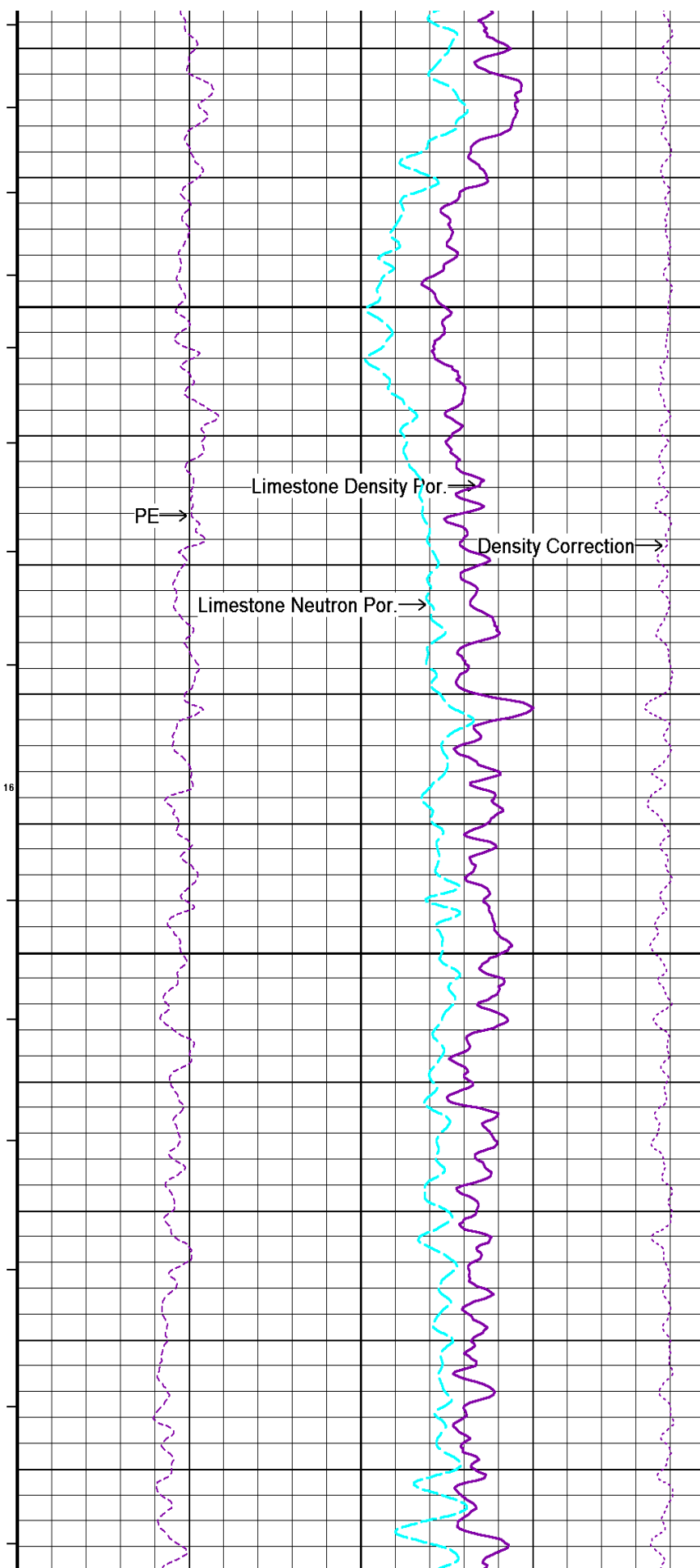
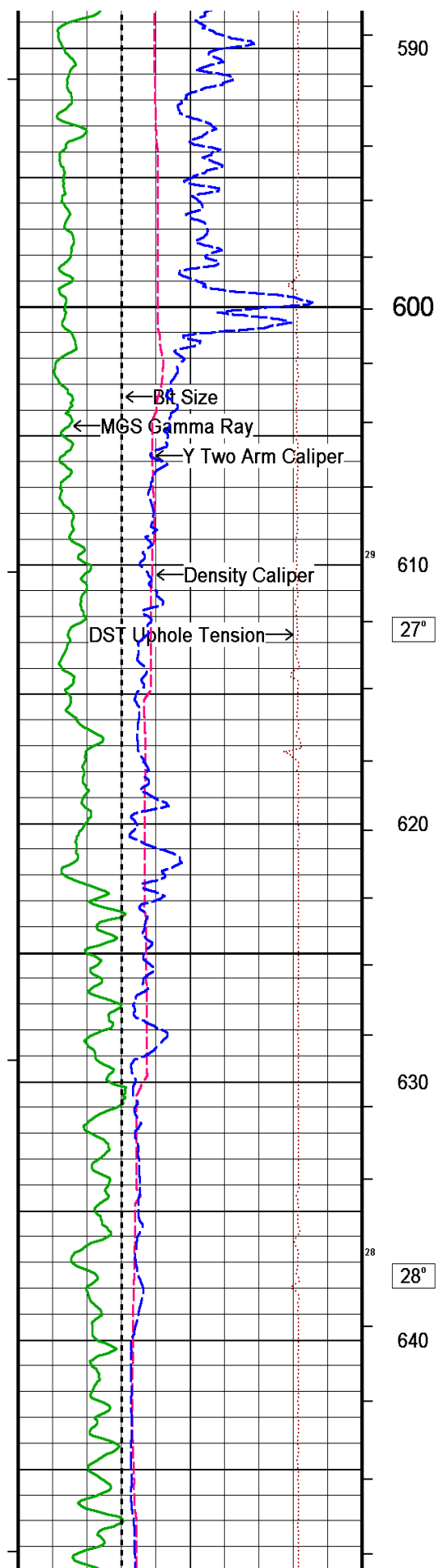


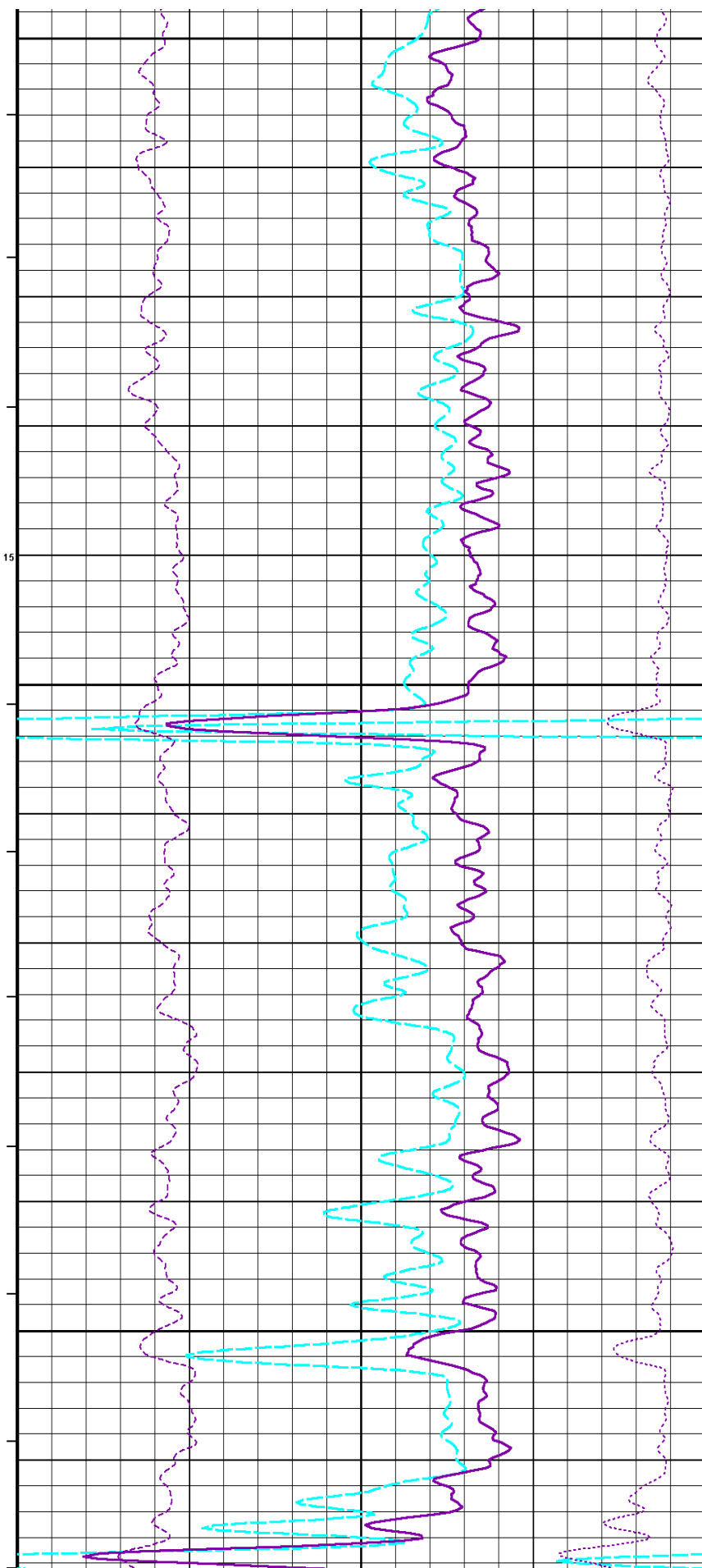
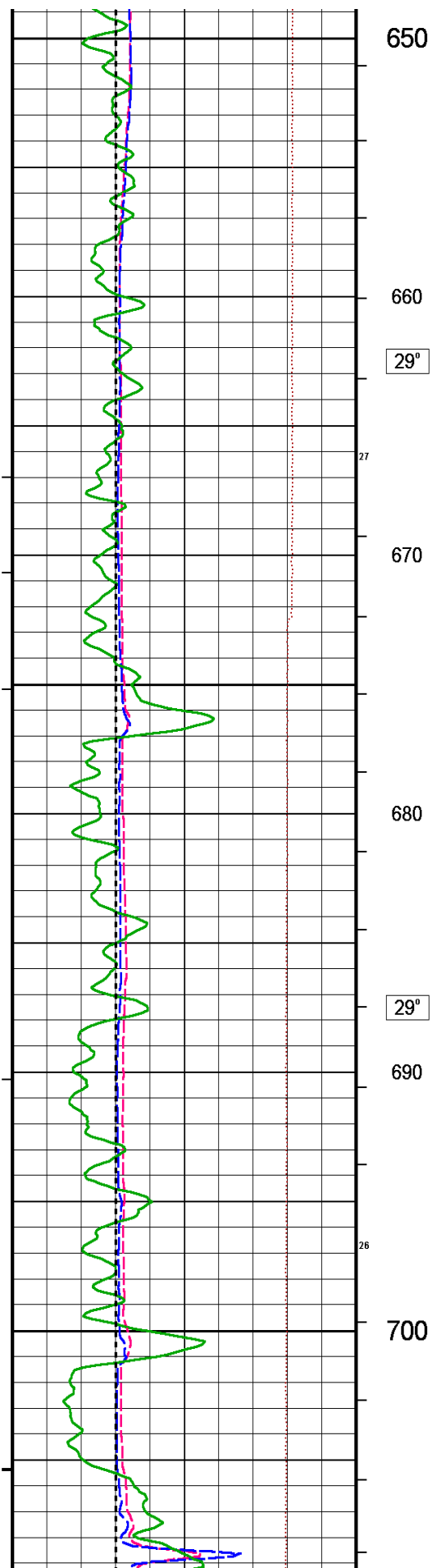


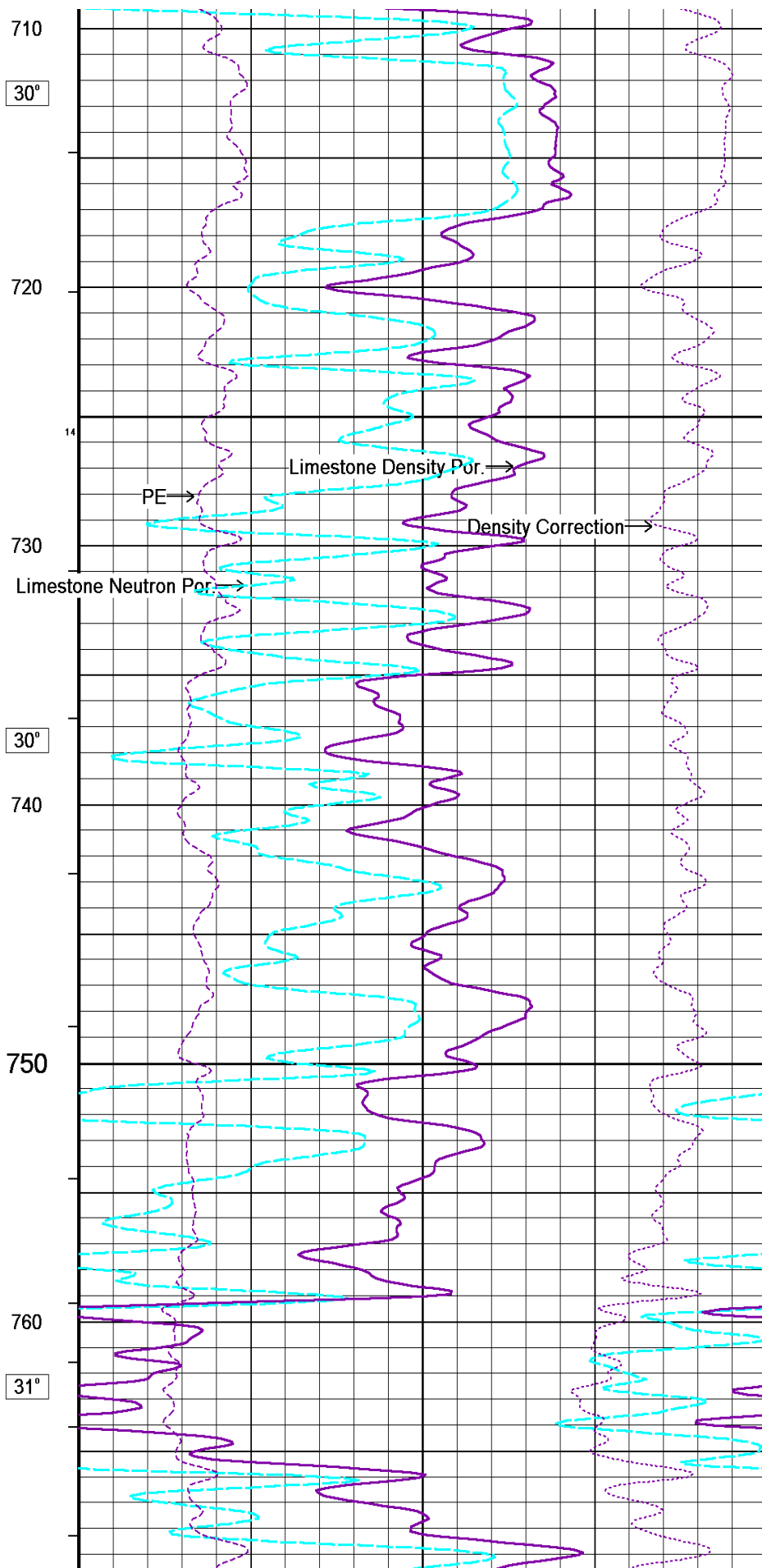
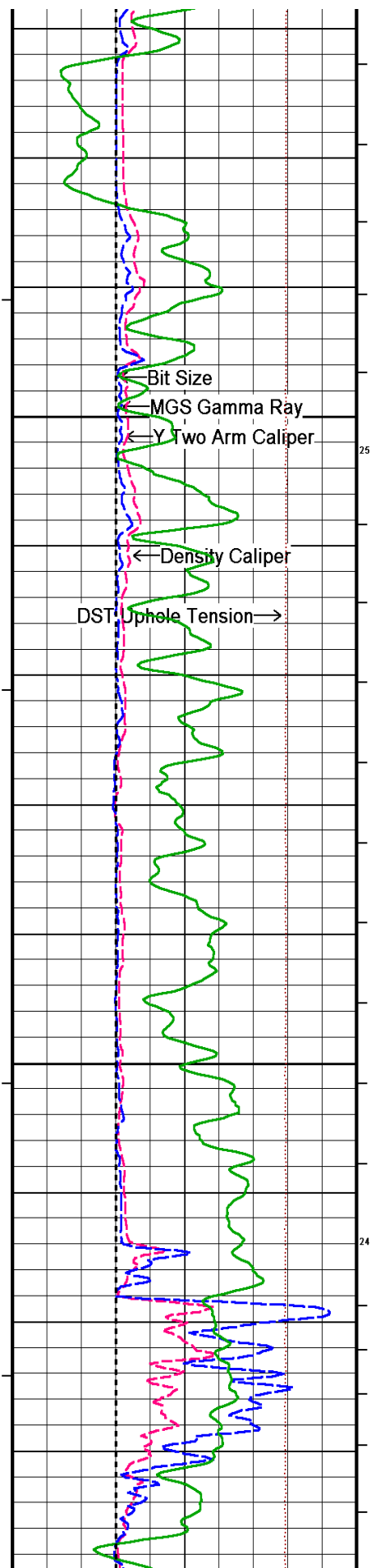


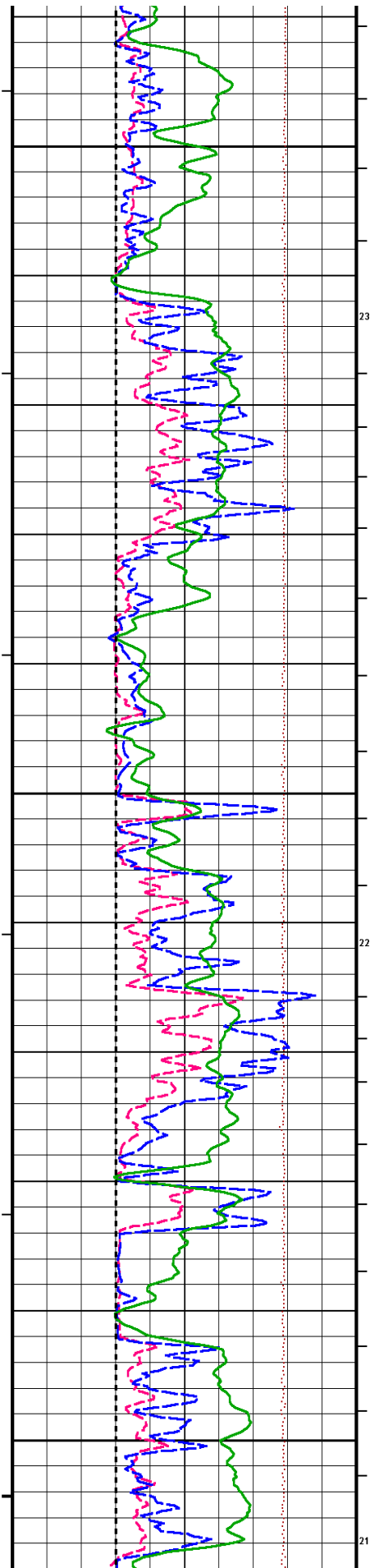












770

780

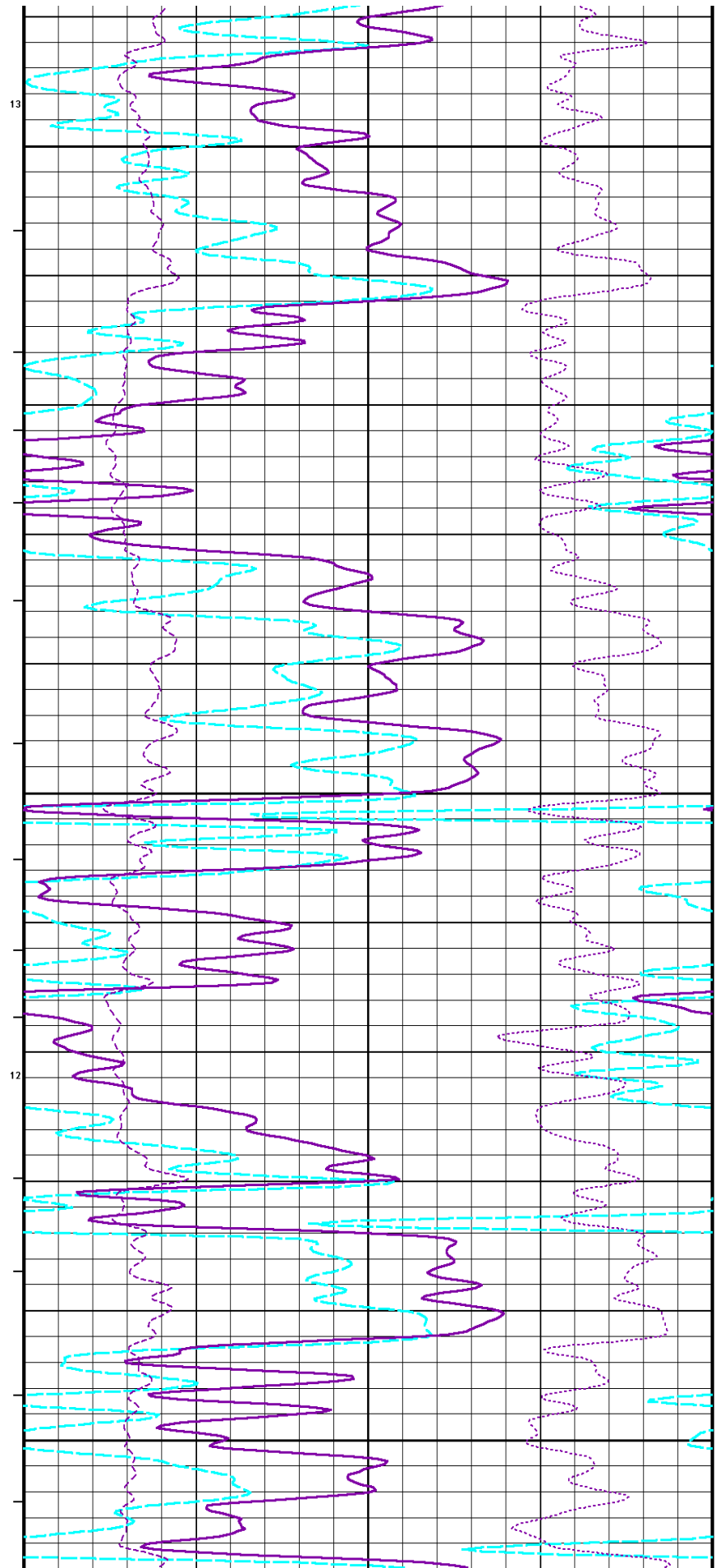
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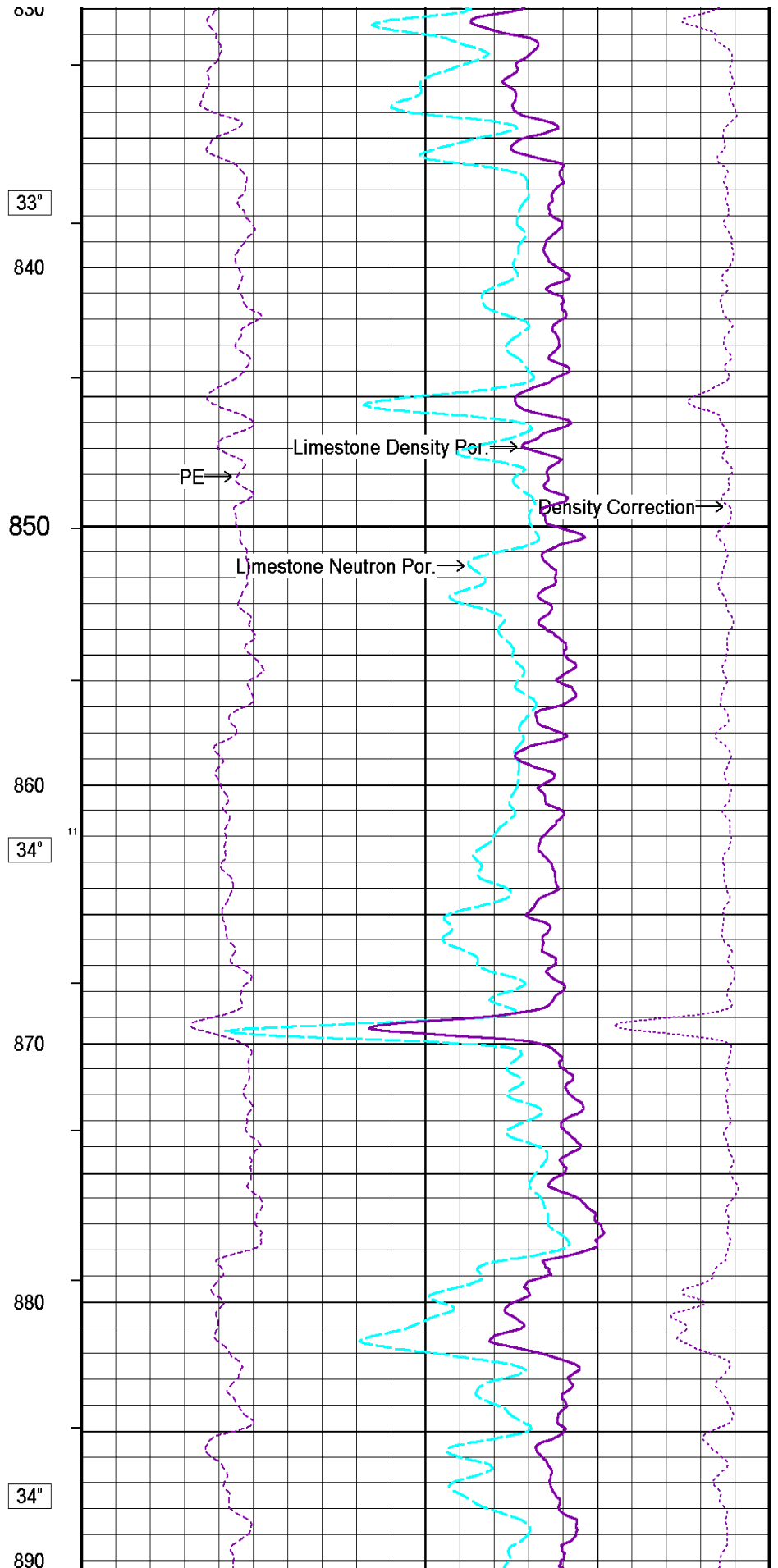
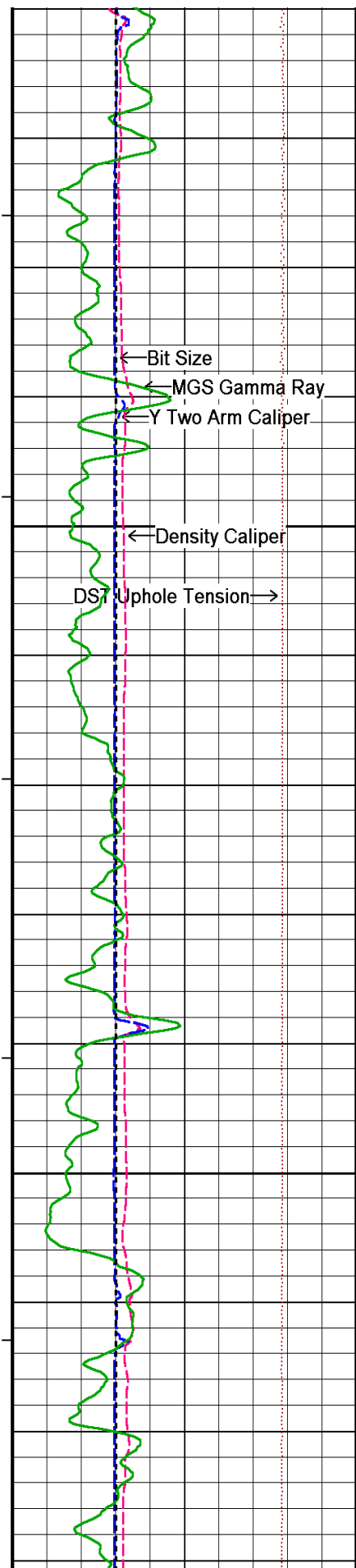
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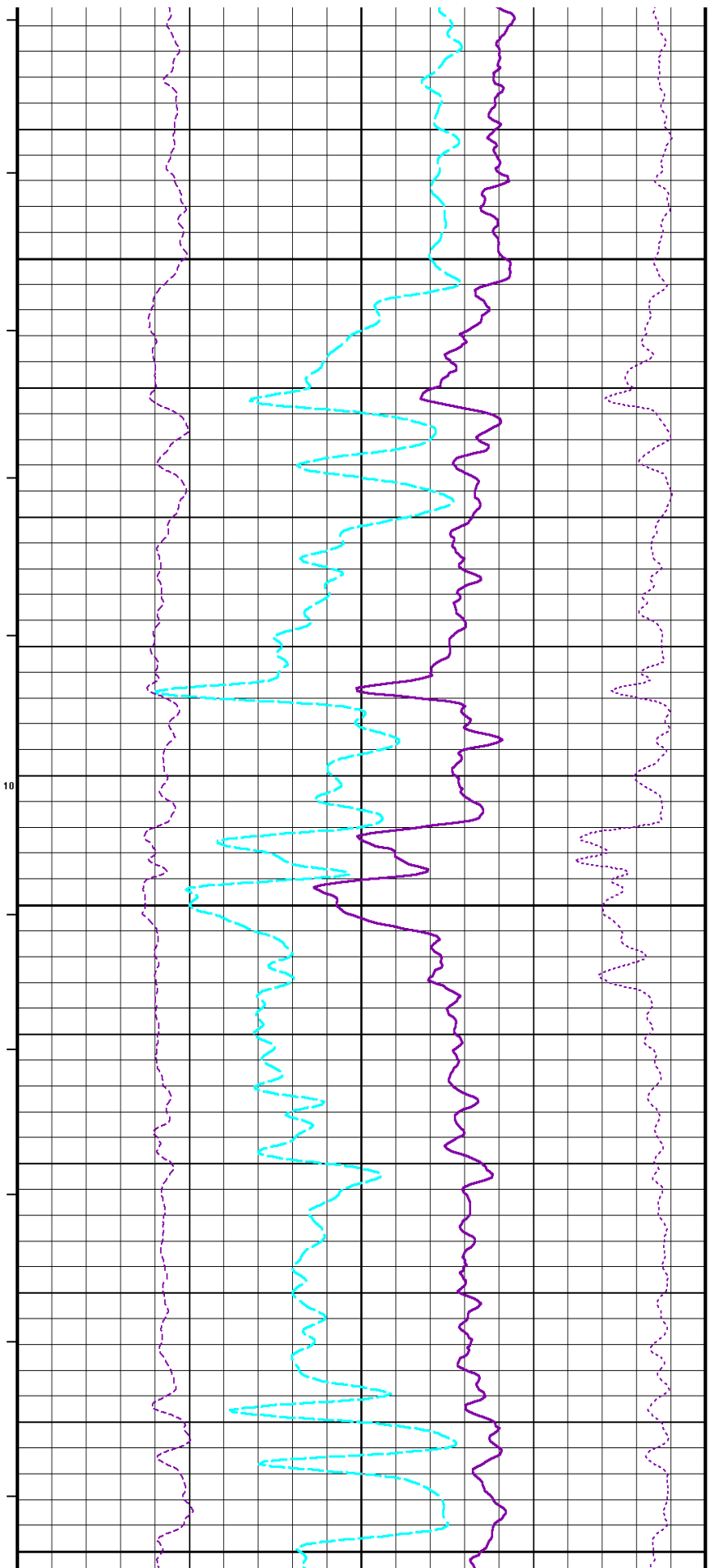
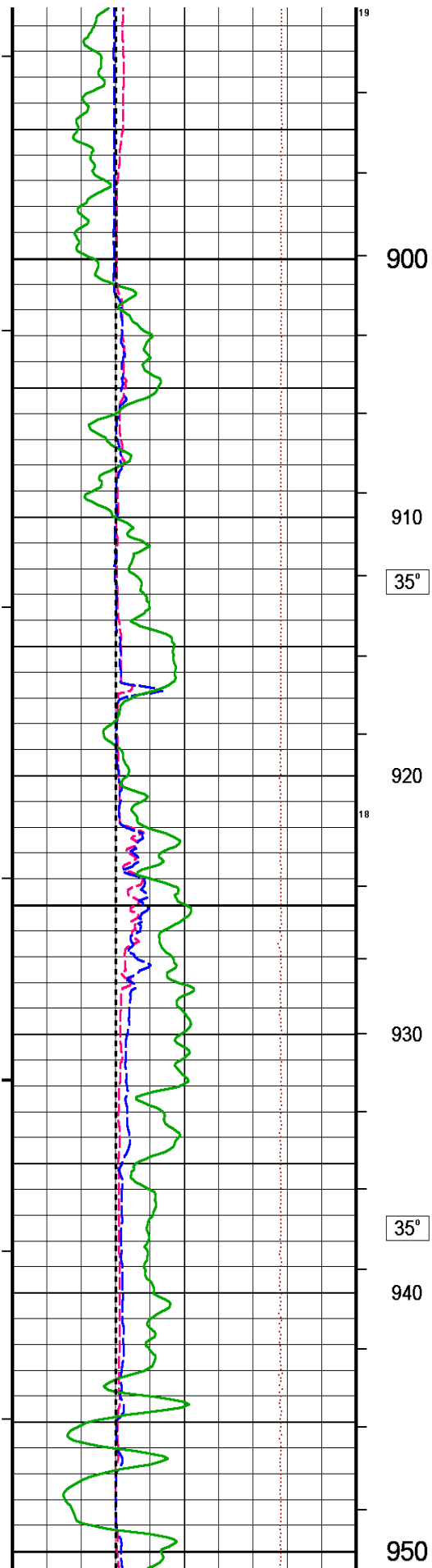
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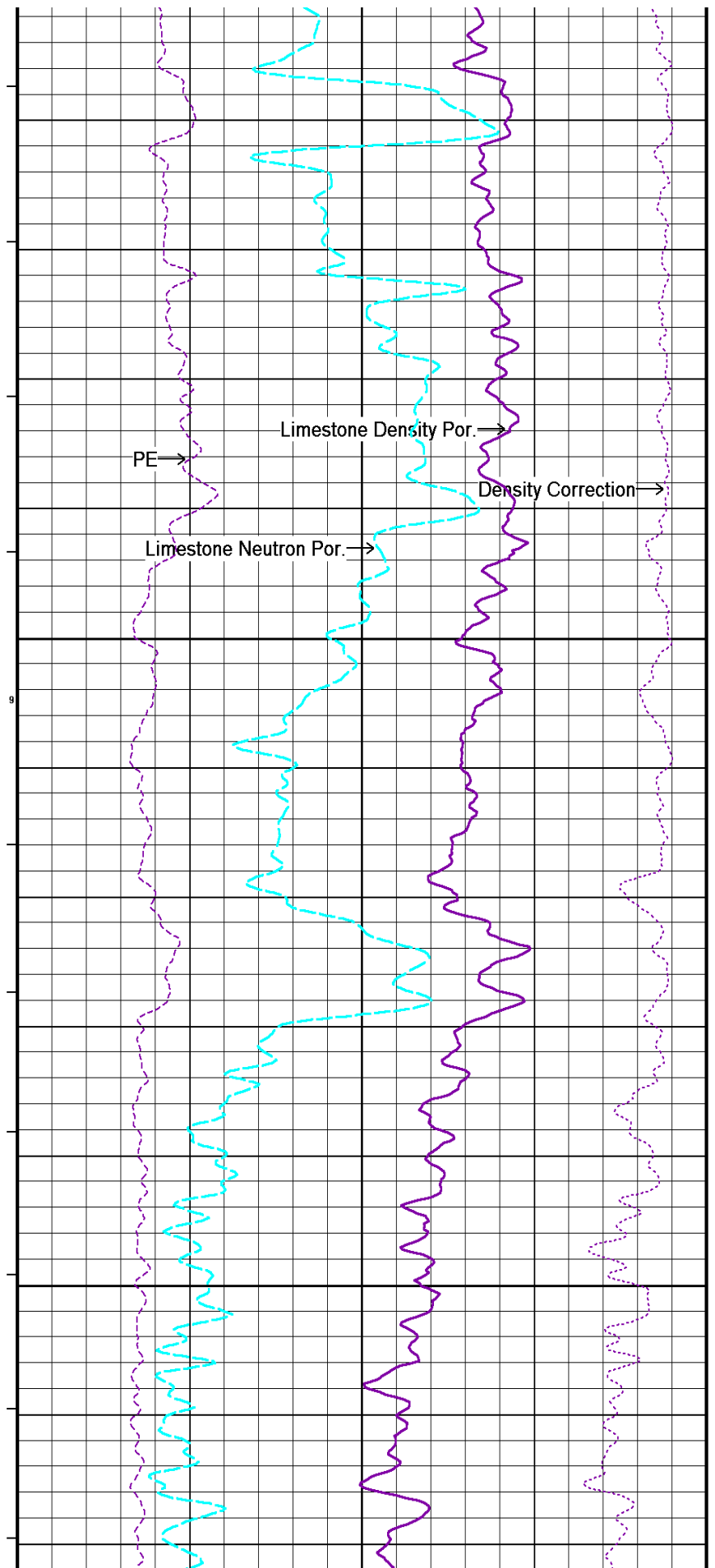
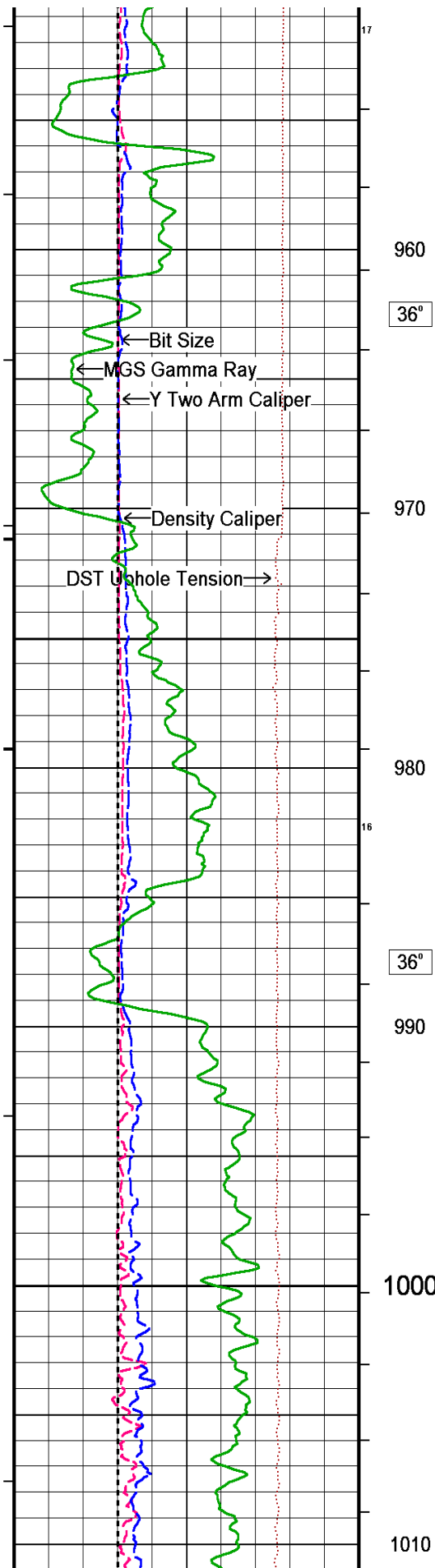
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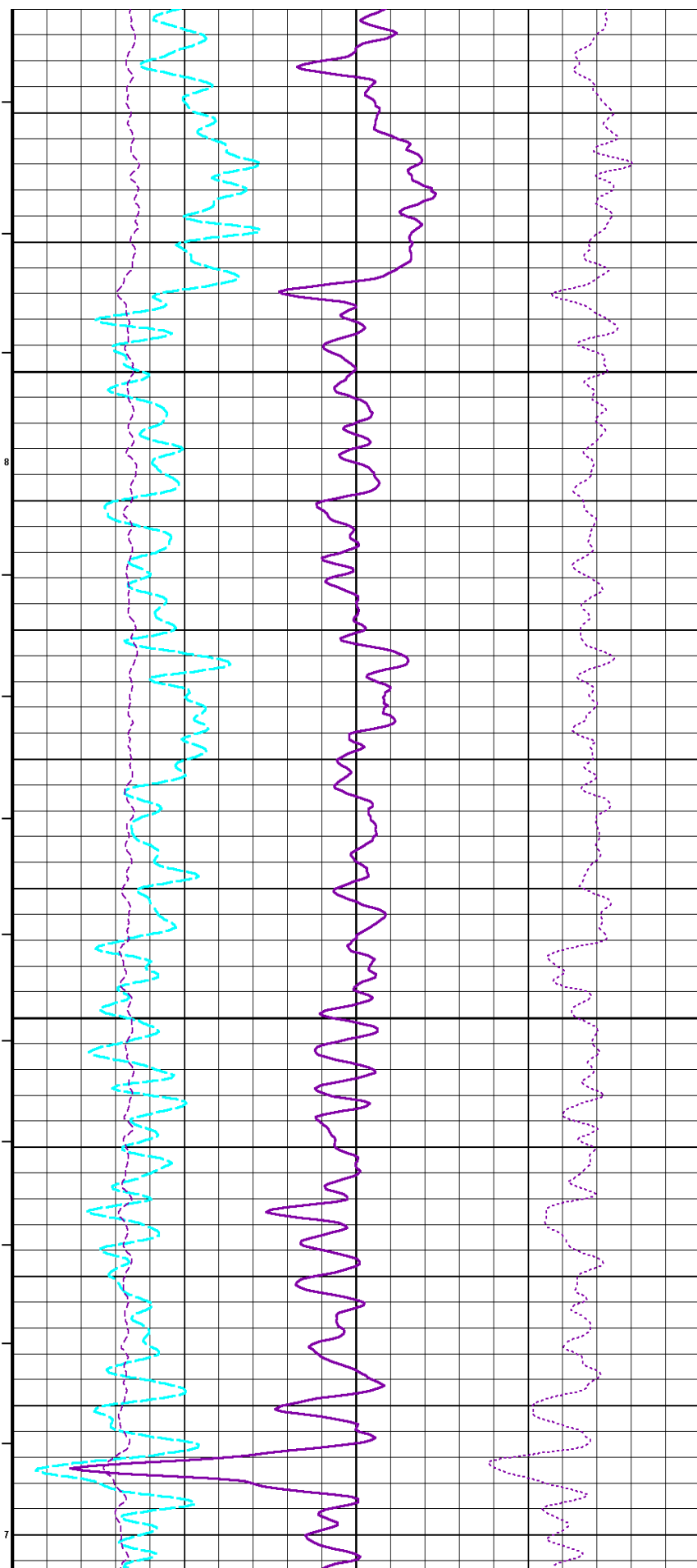
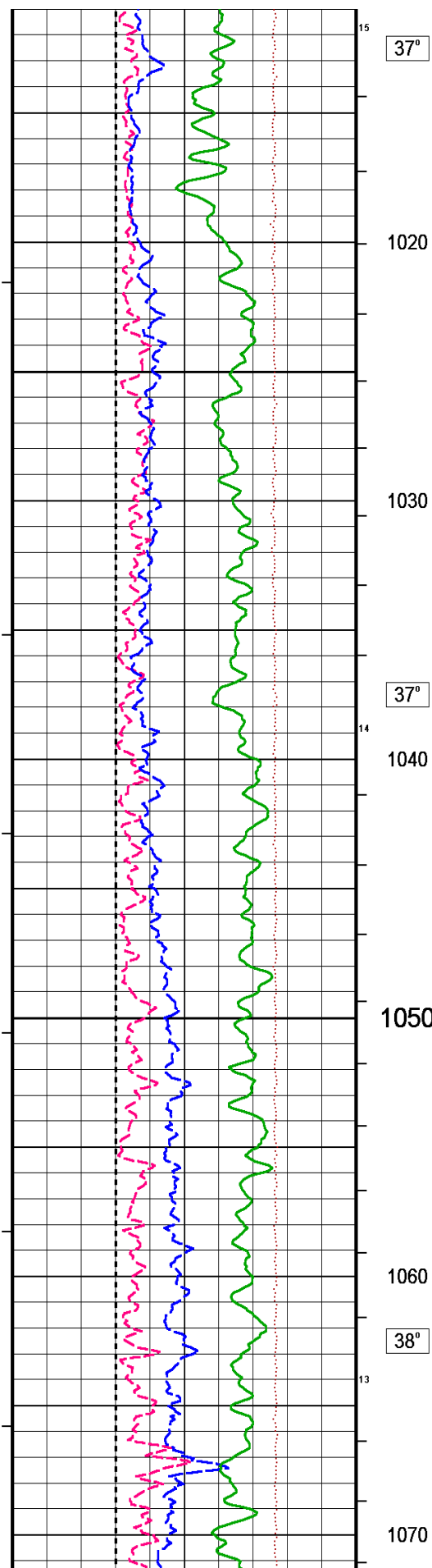
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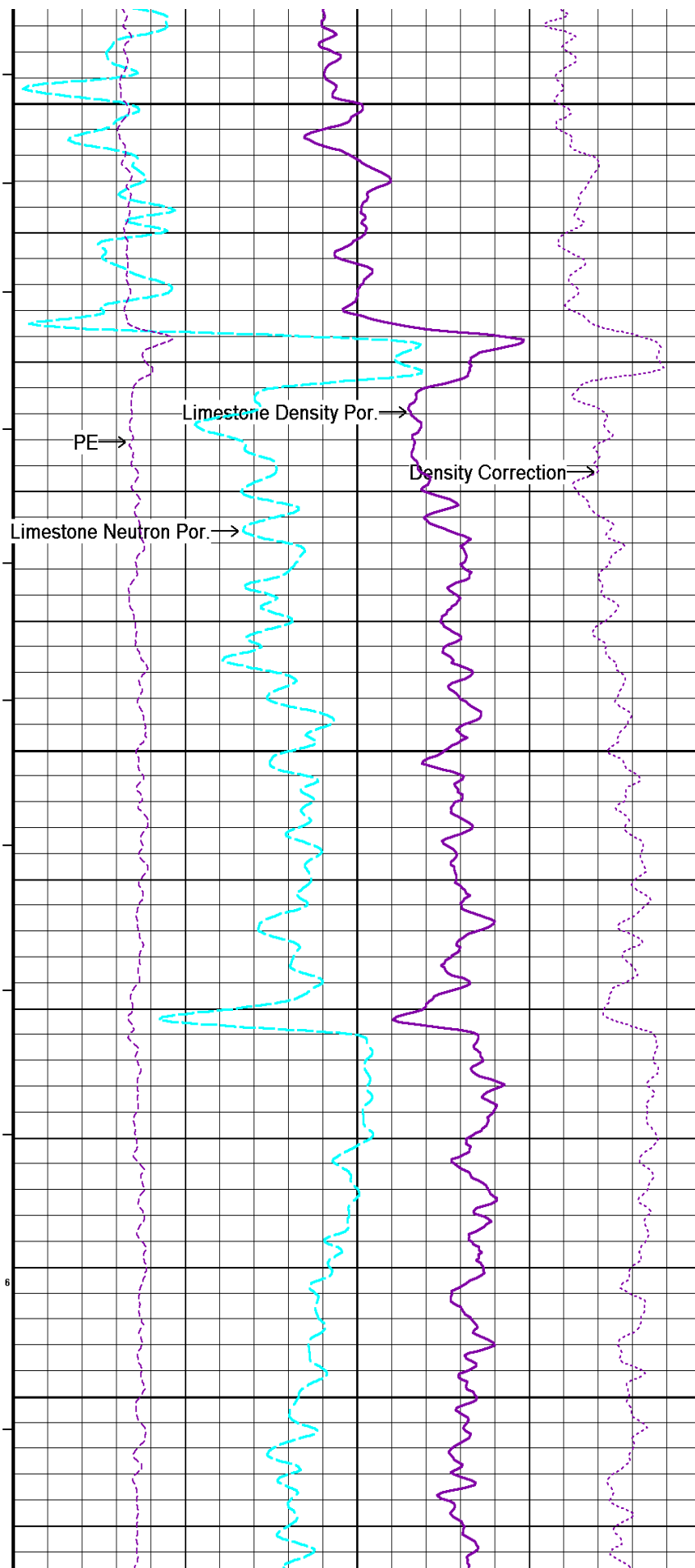
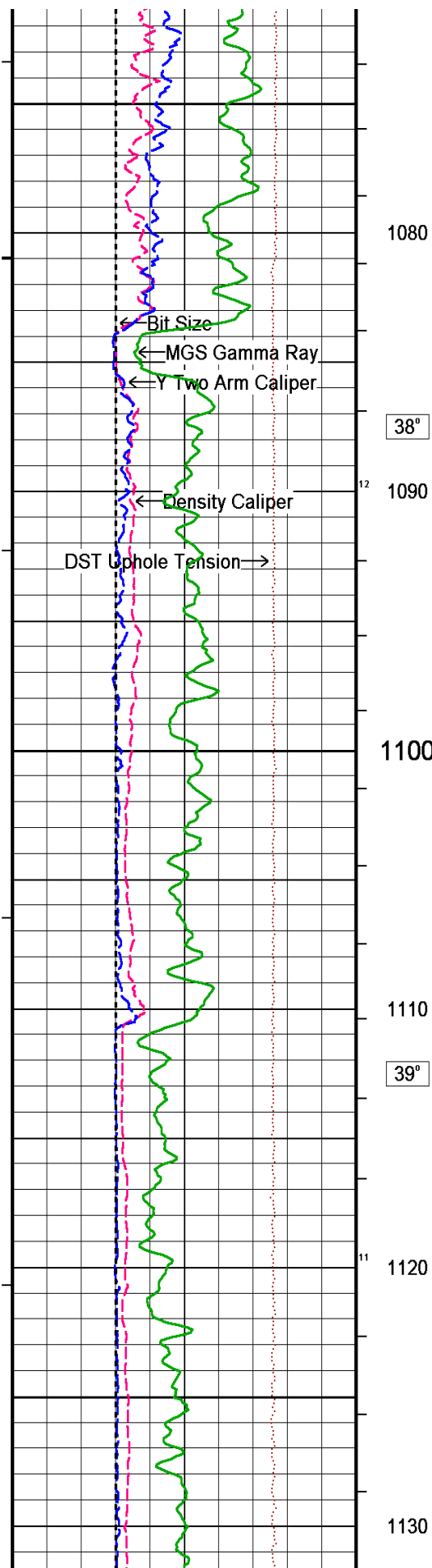


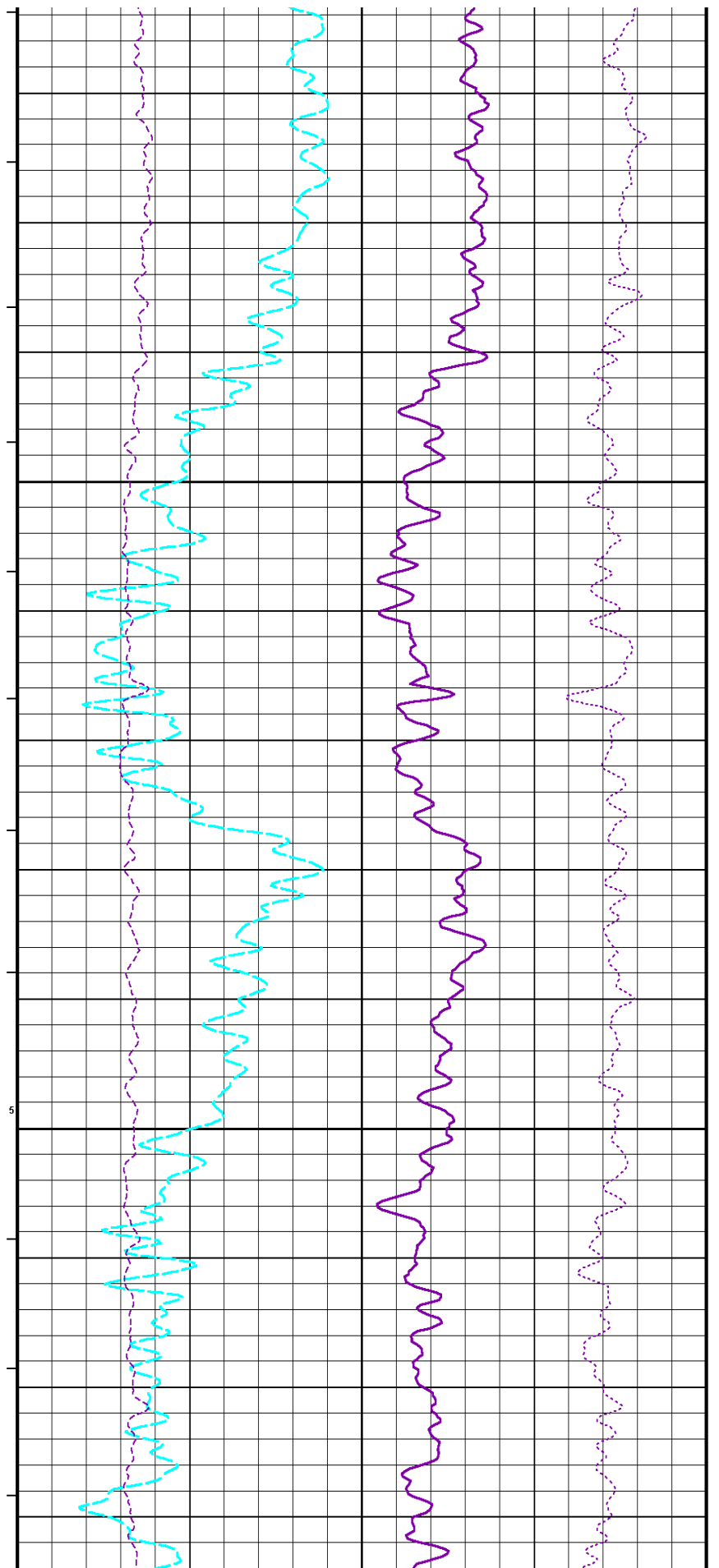
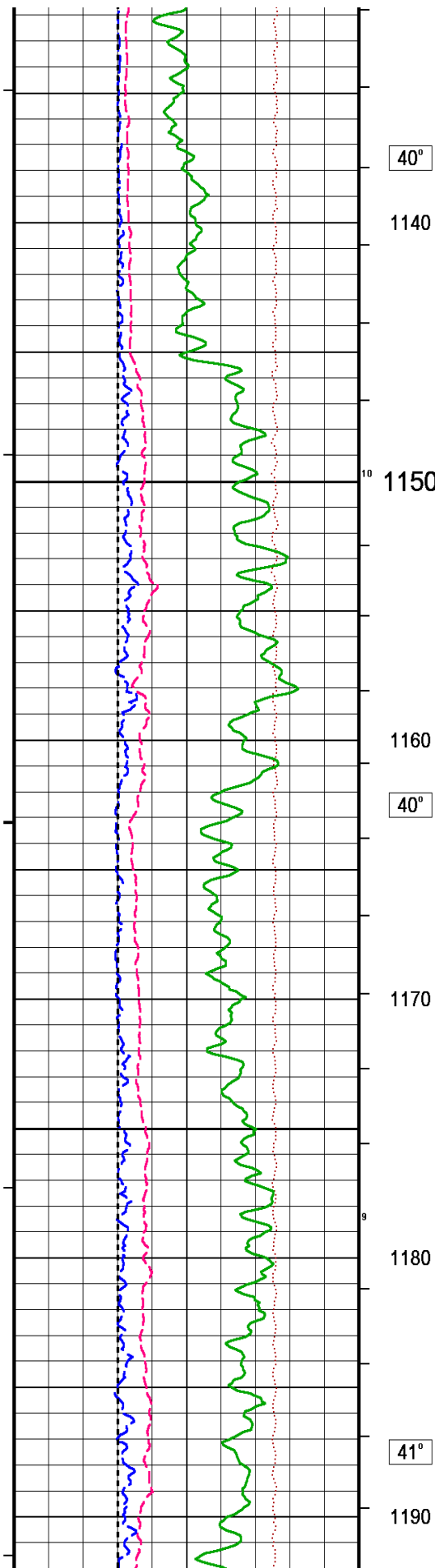


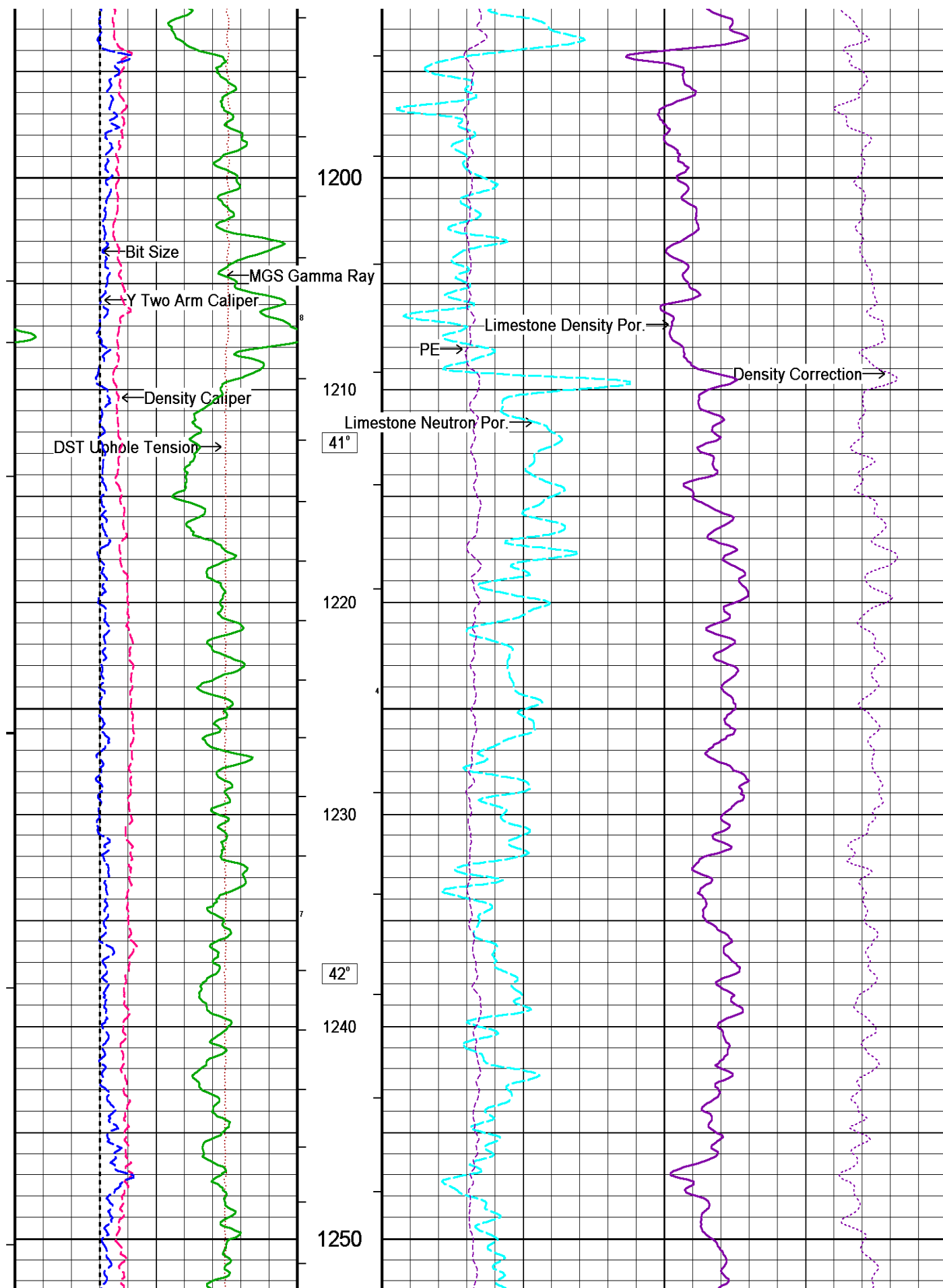


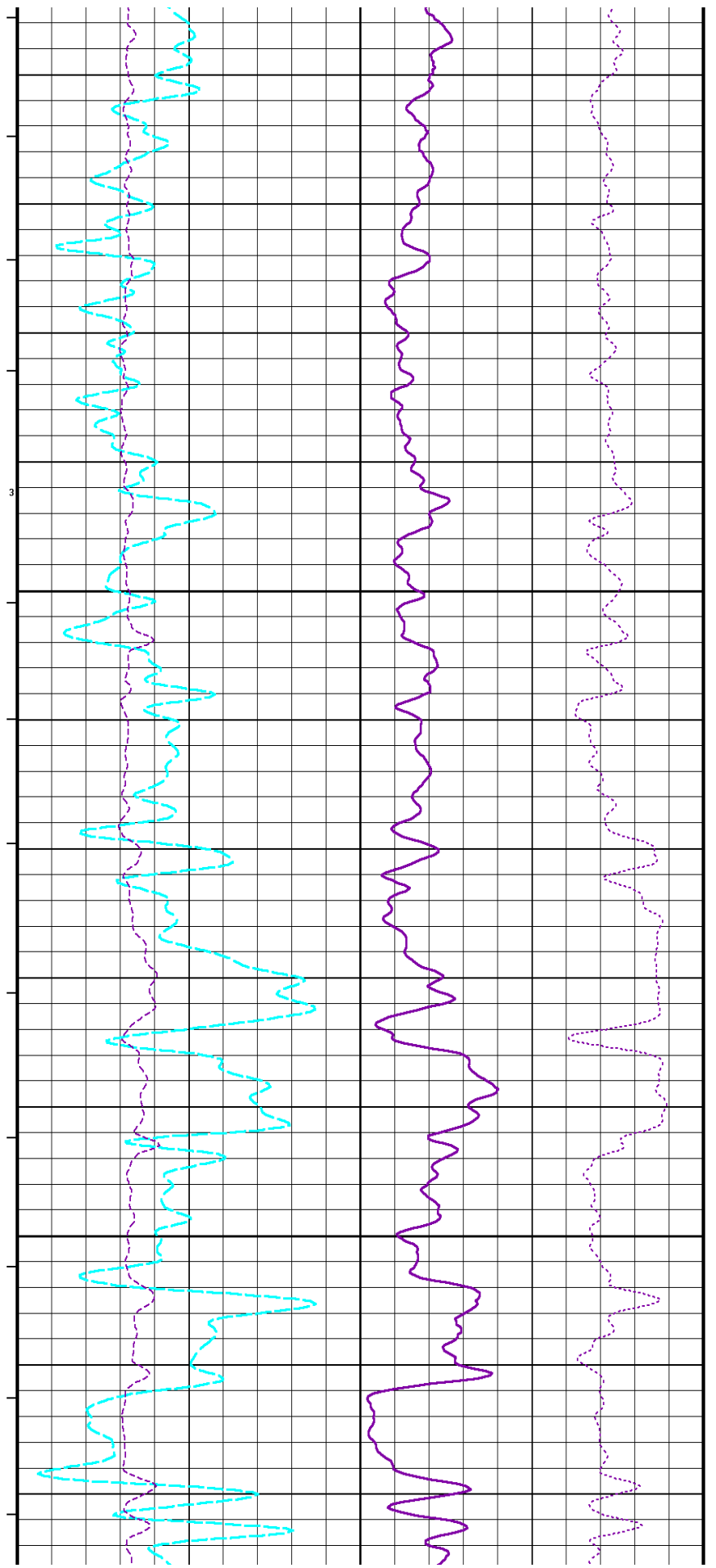
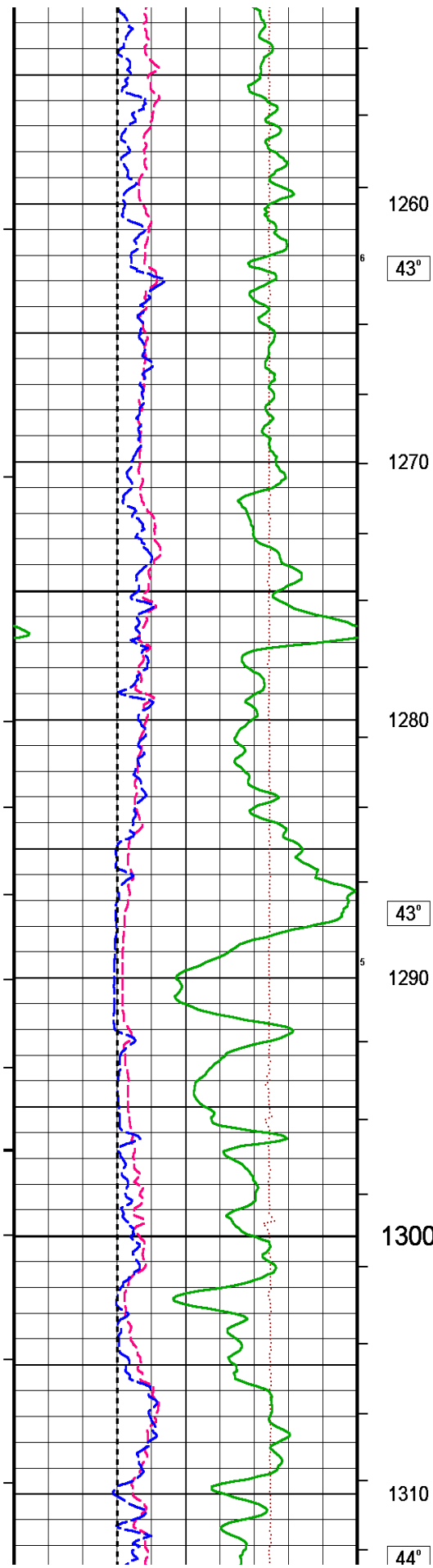


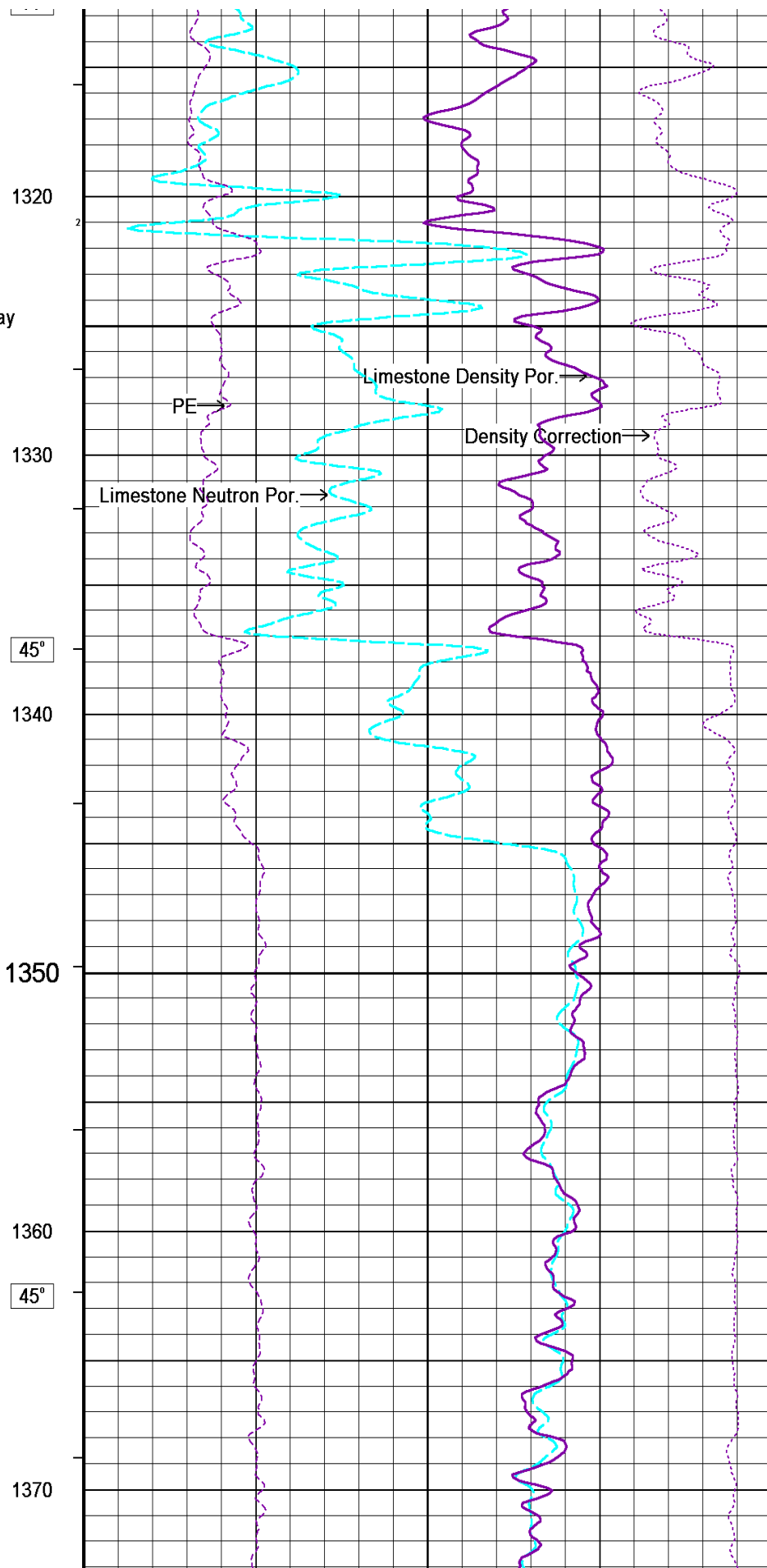
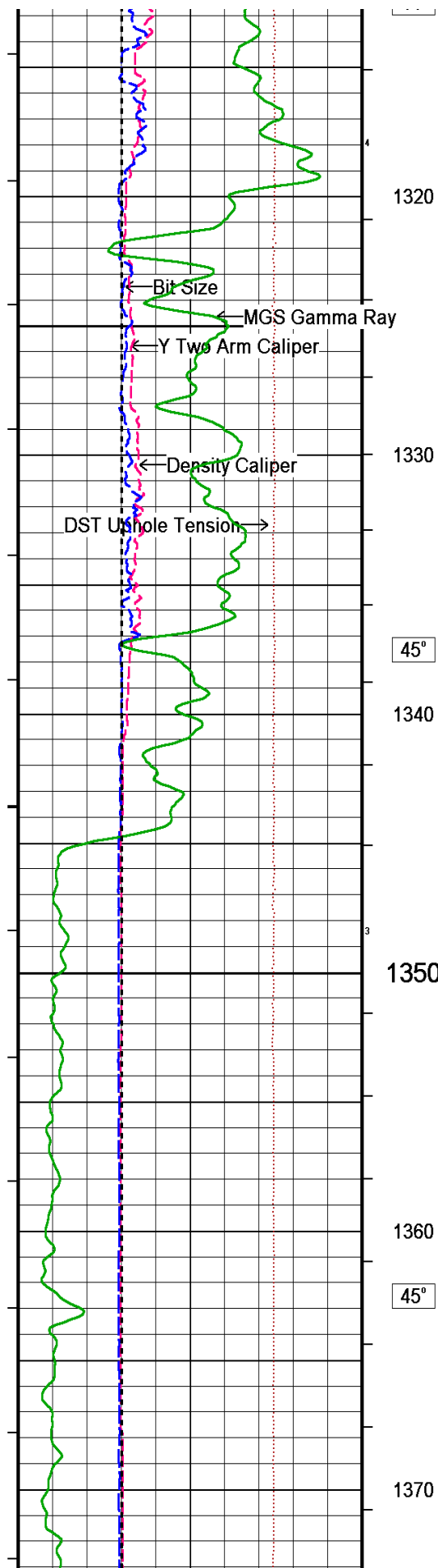


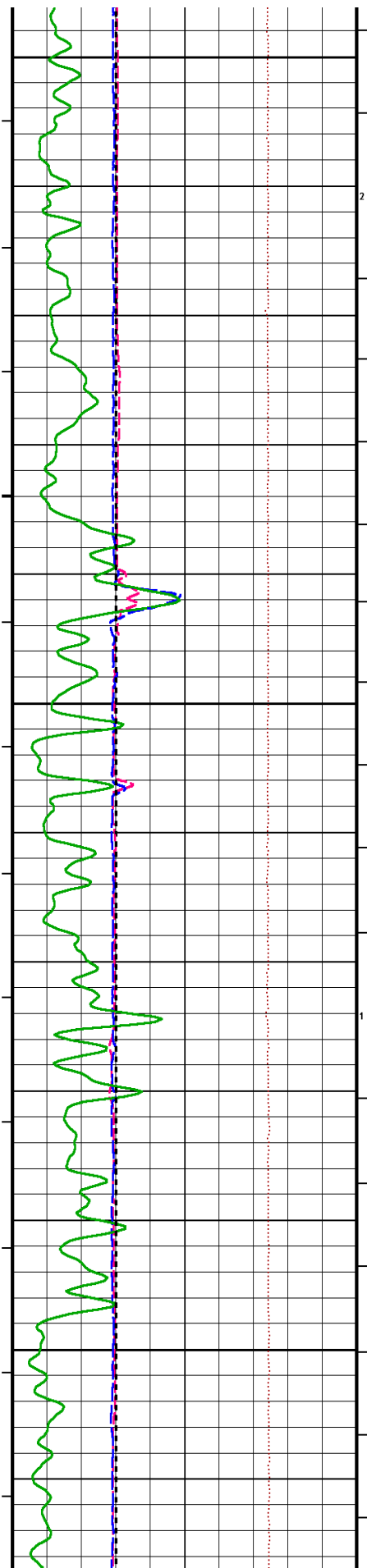












1380

46°

1390

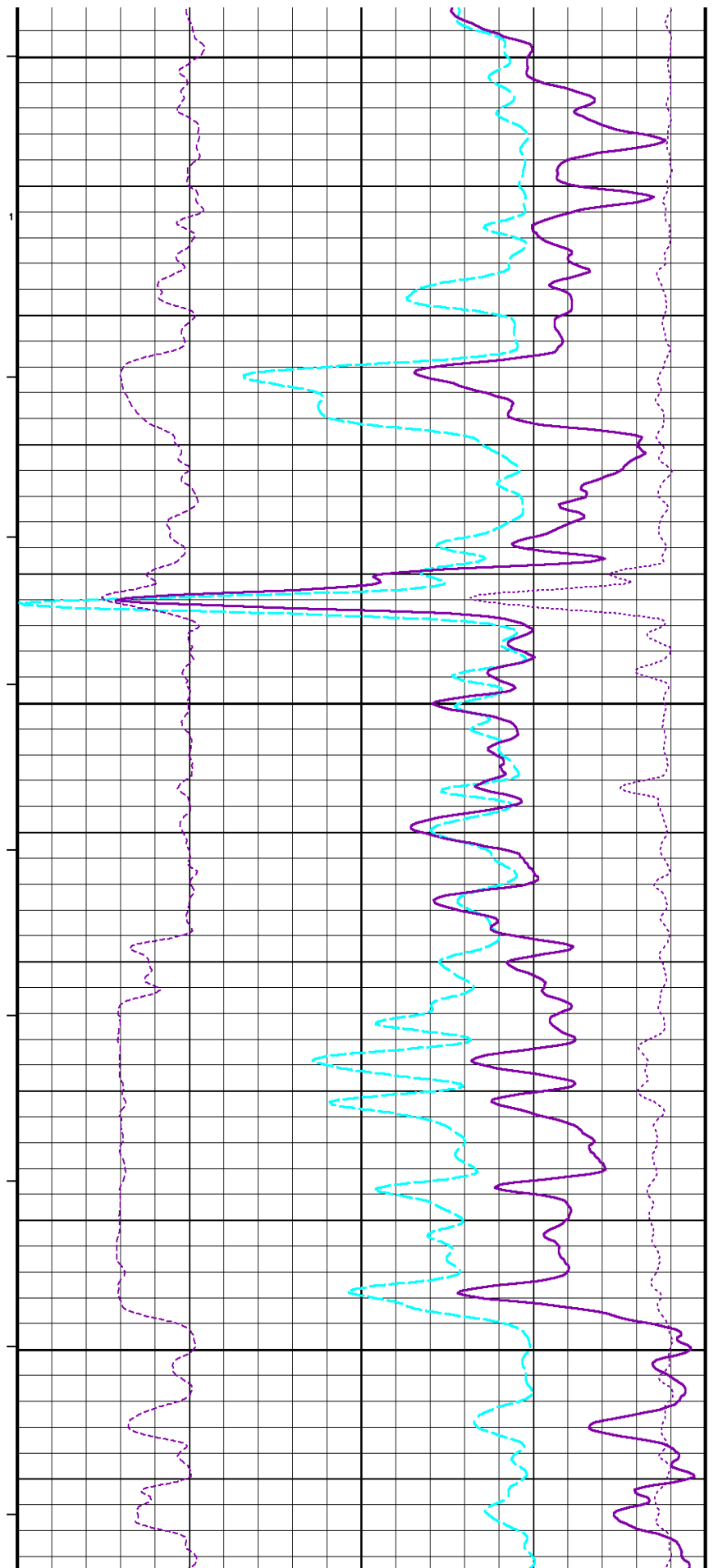
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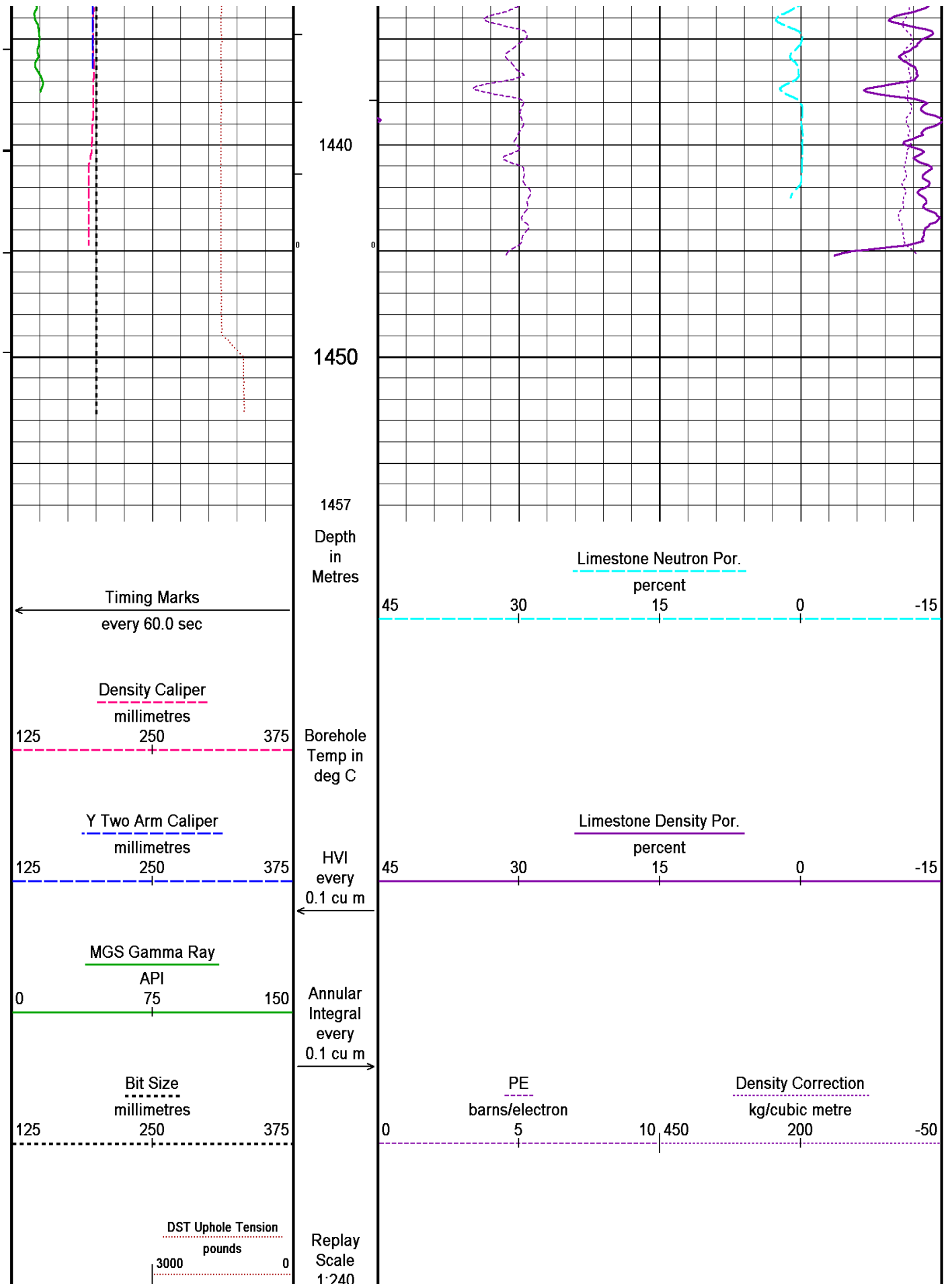
1410

48°

1420

1430





Depth Based Data - Maximum Sampling Increment 10.0cm
Filename: C:\Temp\Weatherford PreView\0\MAIN LOG.dta
System Versions: Processed with 8.00.0015 Plotted with 8.01.0091

Plotted on 12-NOV-2007 09:30
Recorded on 15-FEB-2007 08:46



LIMESTONE MAINLOG

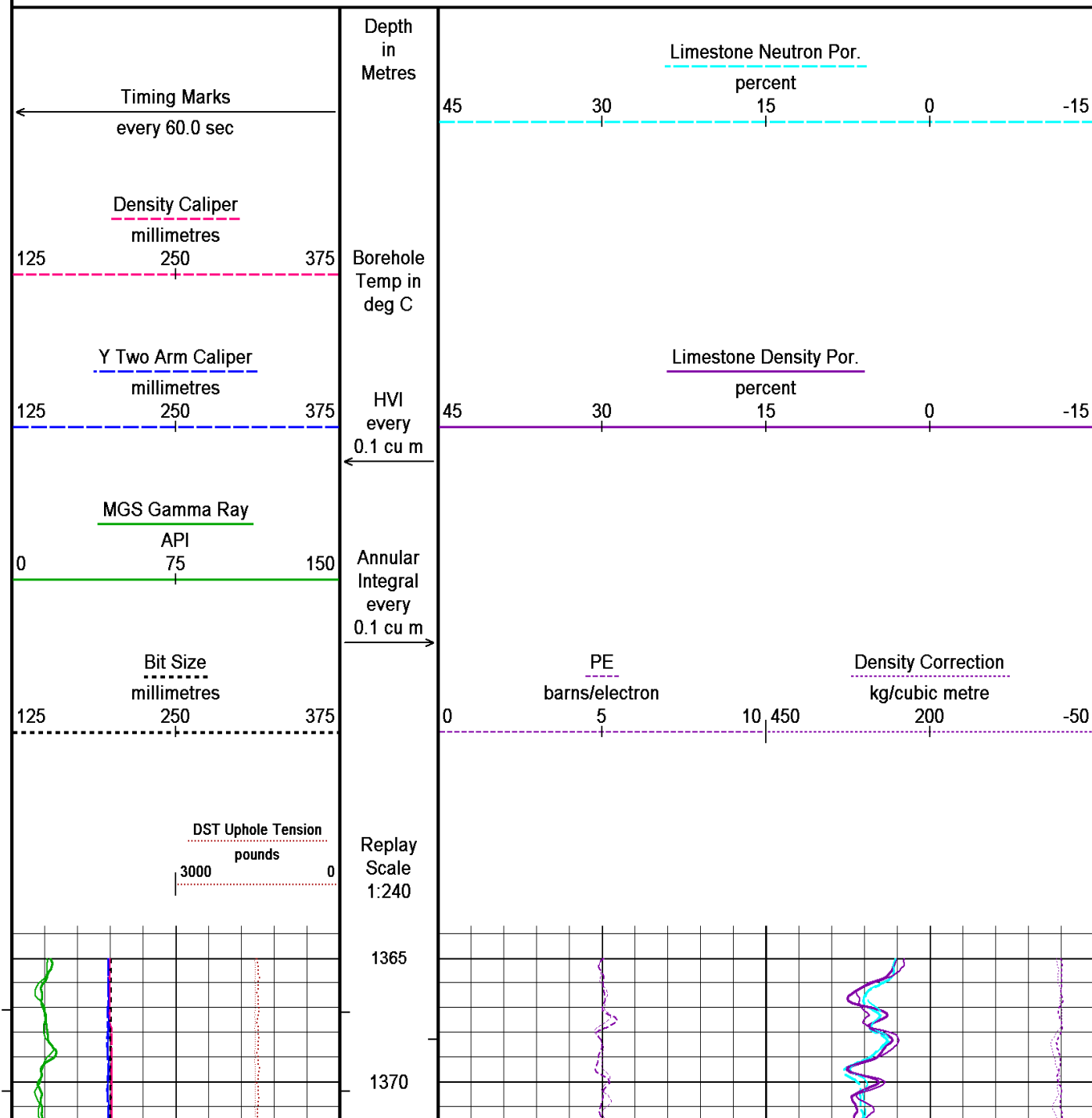


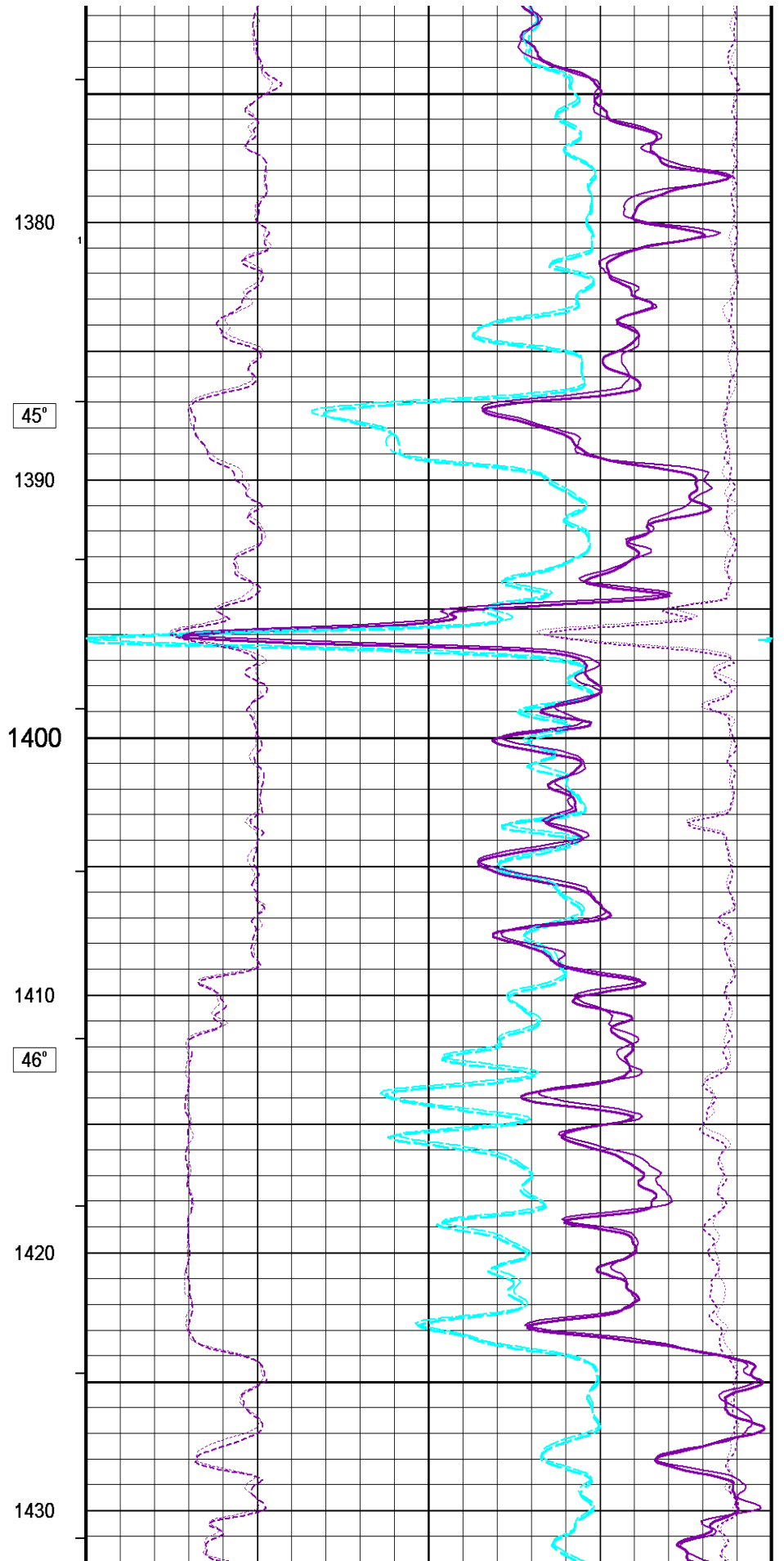
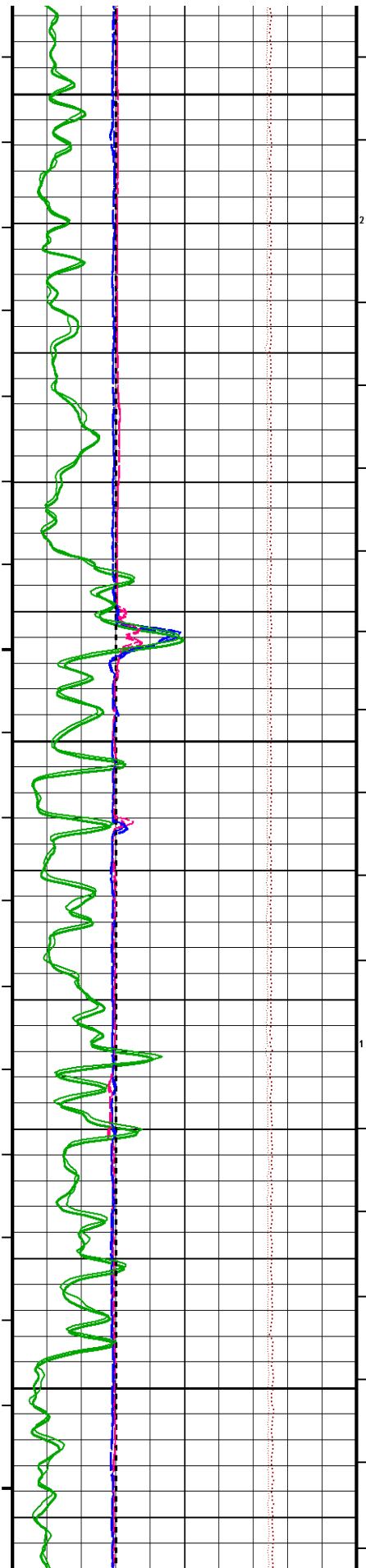
LIMESTONE REPEAT SANDSTONE MAINLOG

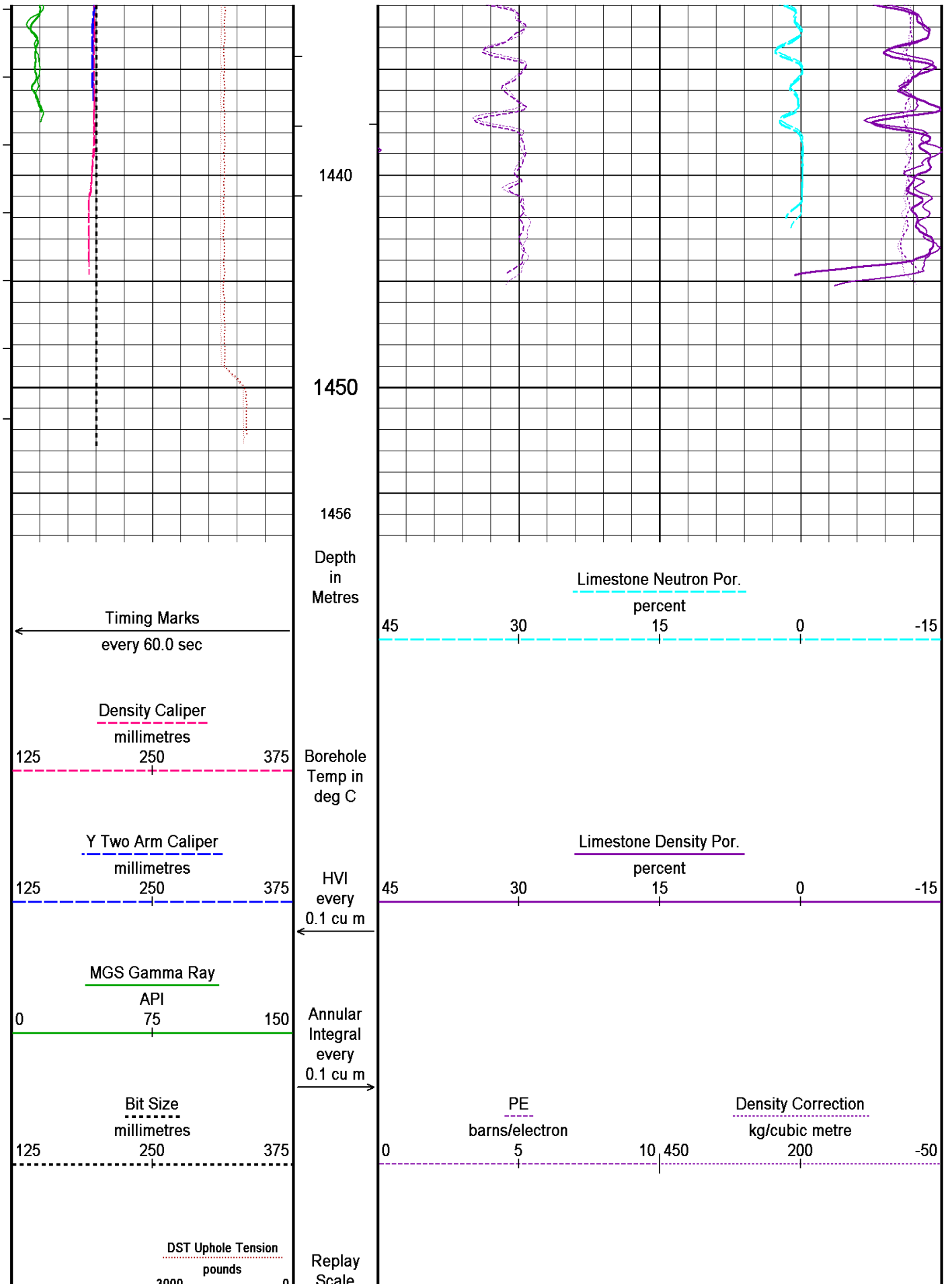


Depth Based Data - Maximum Sampling Increment 10.0cm
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Filename: C:\Temp\Weatherford PreView\0\MAIN LOG.dta
System Versions: Logged with 7.01.0195 Processed with 8.00.0015 Plotted with 8.01.0091

Plotted on 12-NOV-2007 09:30
Recorded on 15-FEB-2007 07:26
Recorded on 15-FEB-2007 08:46







5000

1:240

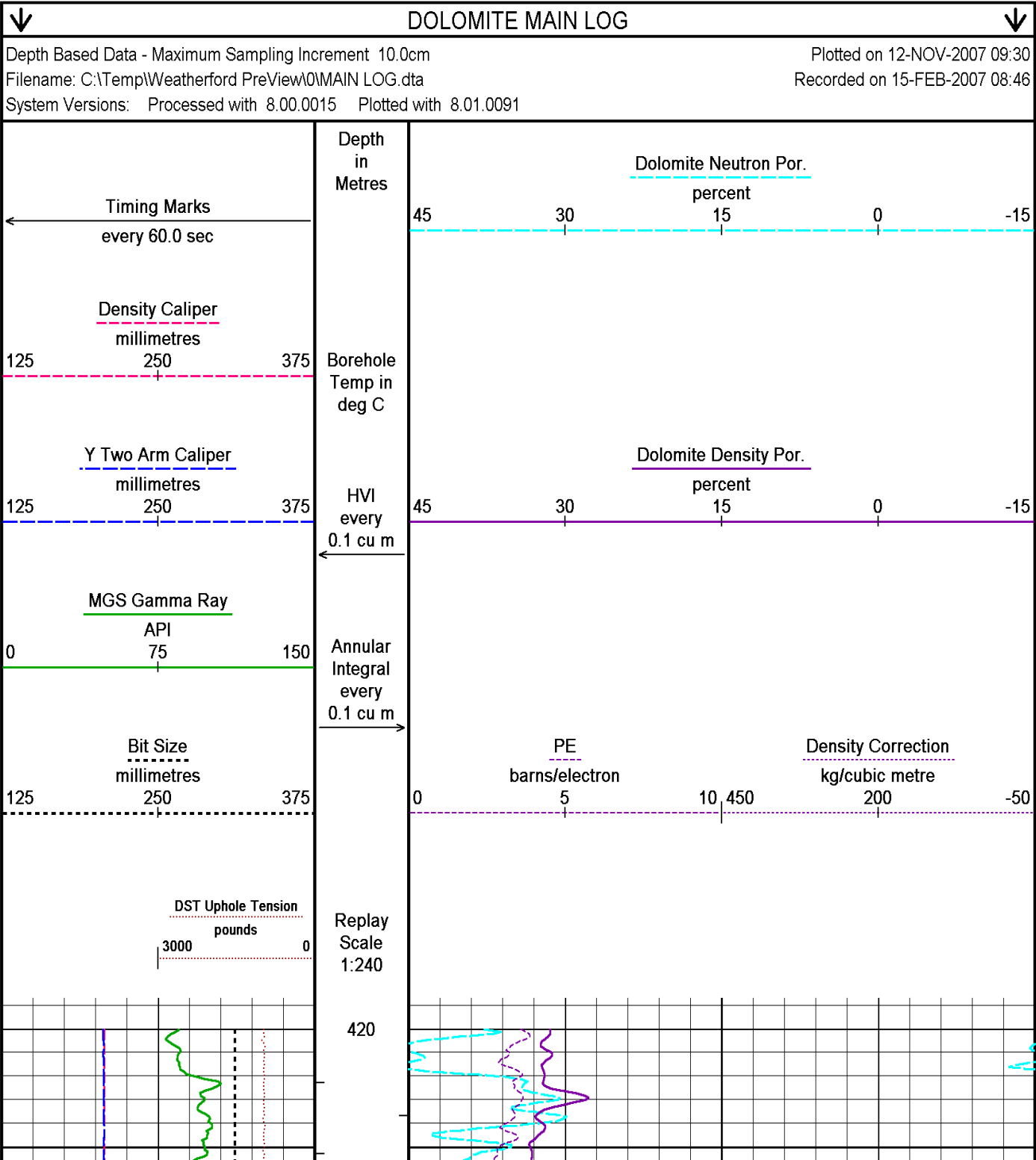
Depth Based Data - Maximum Sampling Increment 10.0cm
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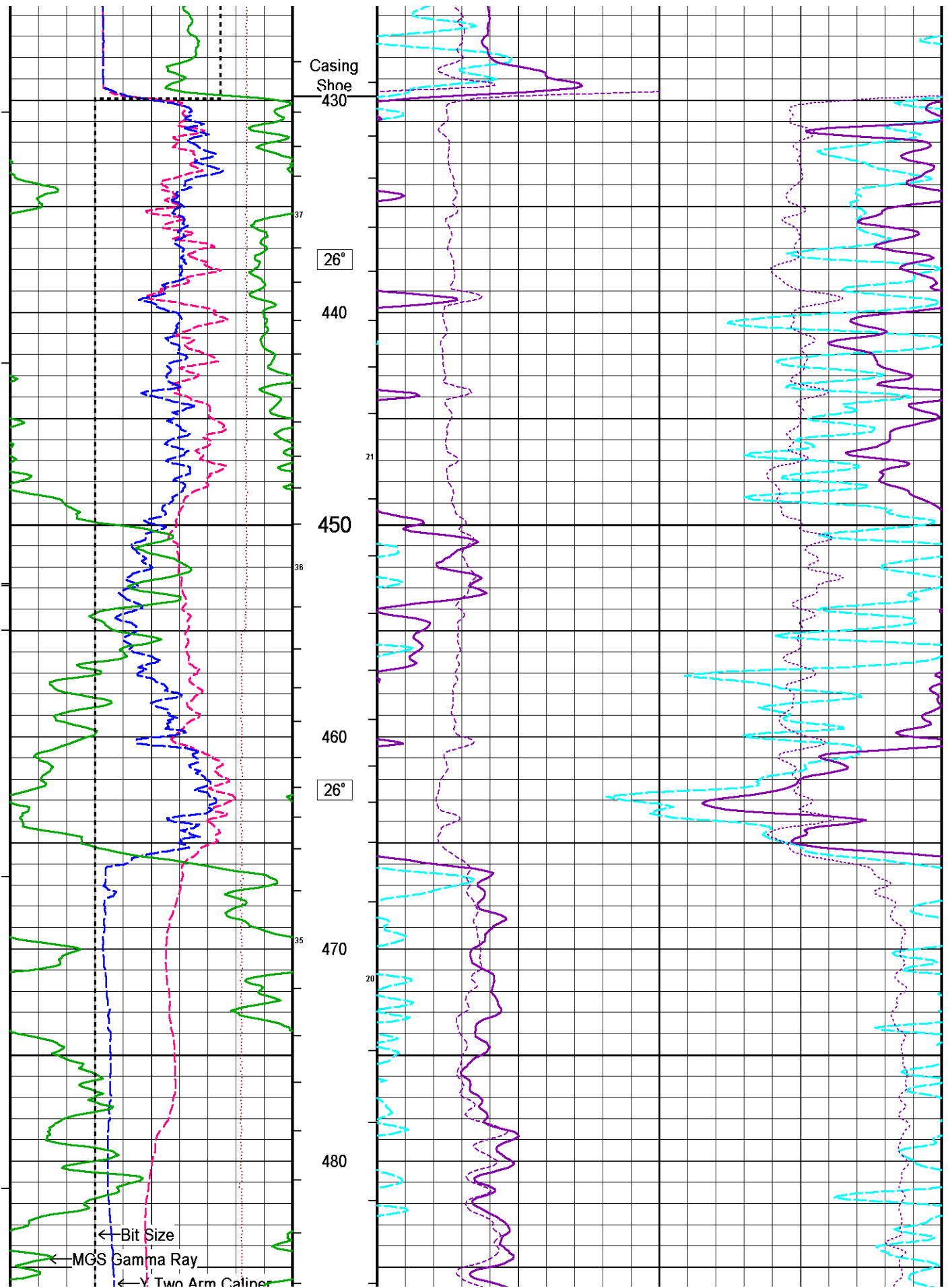
Plotted on 12-NOV-2007 09:30
Recorded on 15-FEB-2007 07:26
Recorded on 15-FEB-2007 08:46

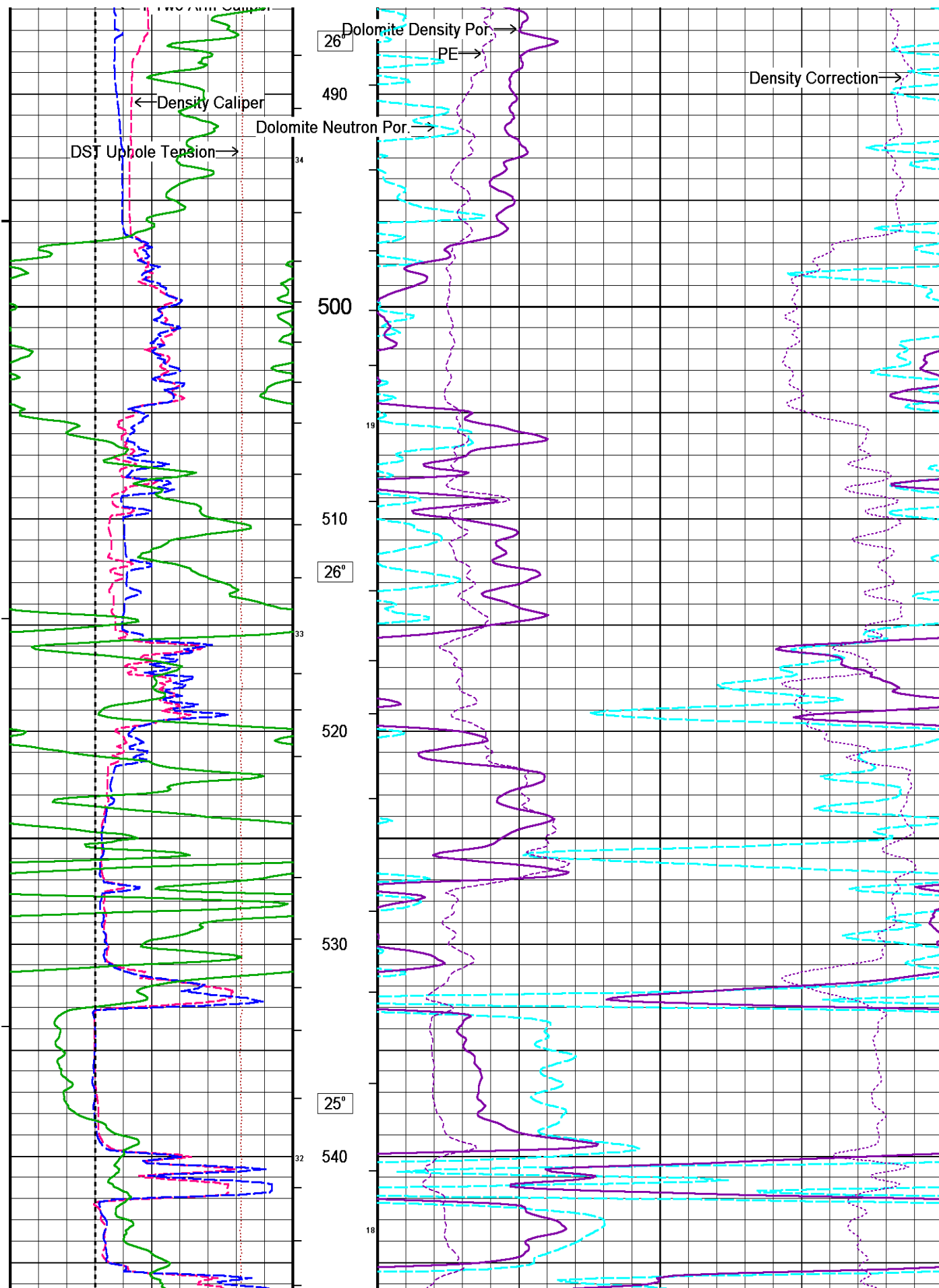
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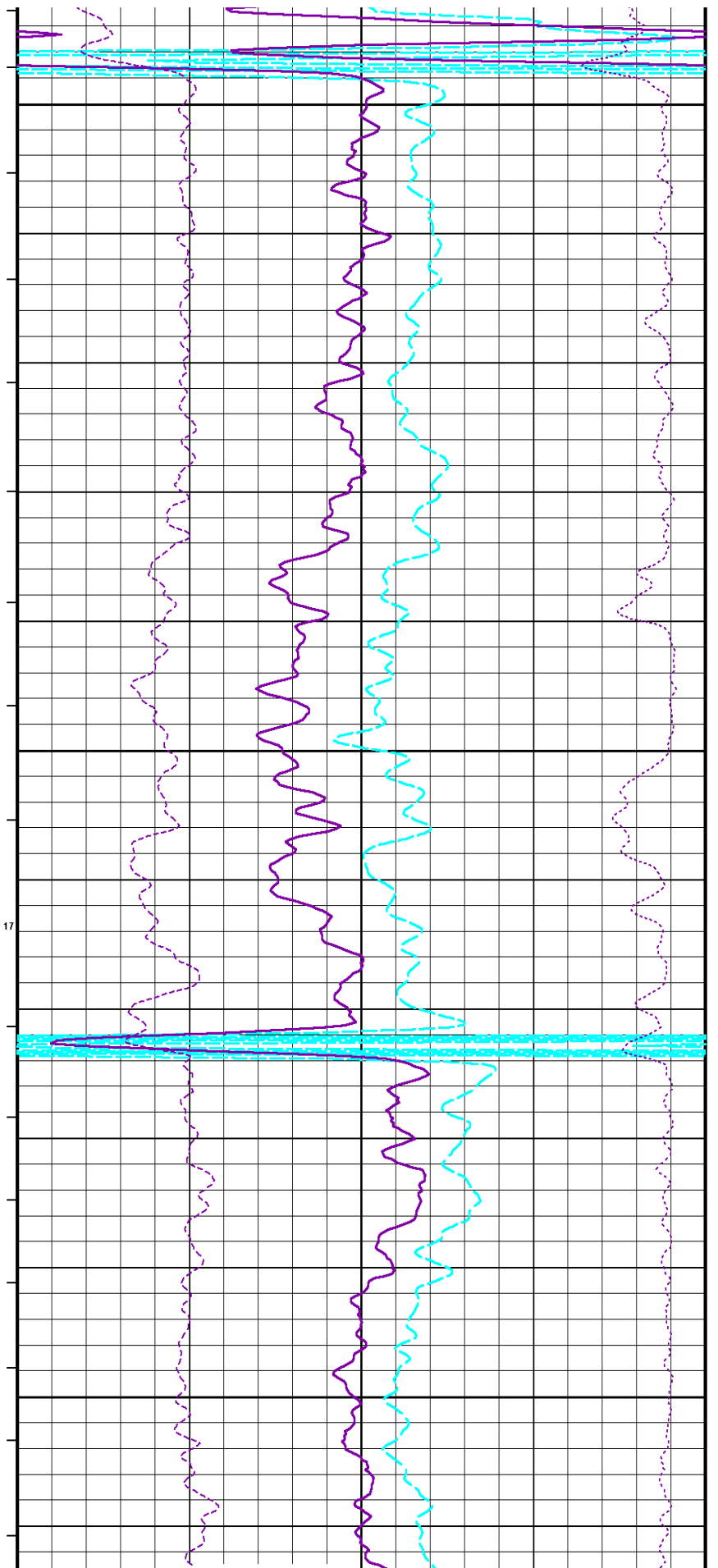
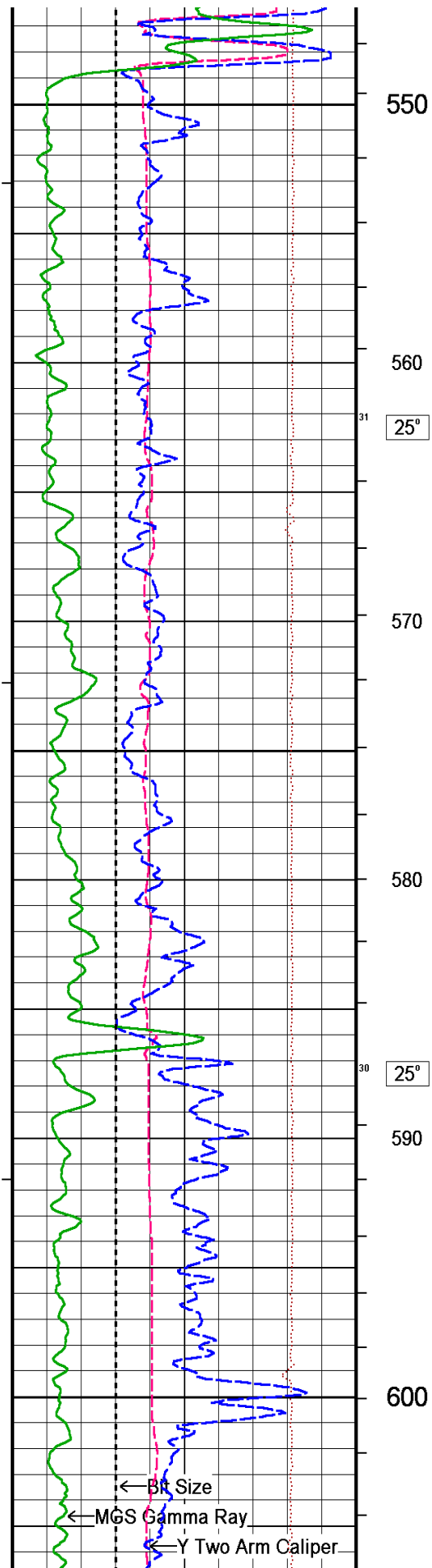
LIMESTONE REPEAT
SANDSTONE MAINLOG

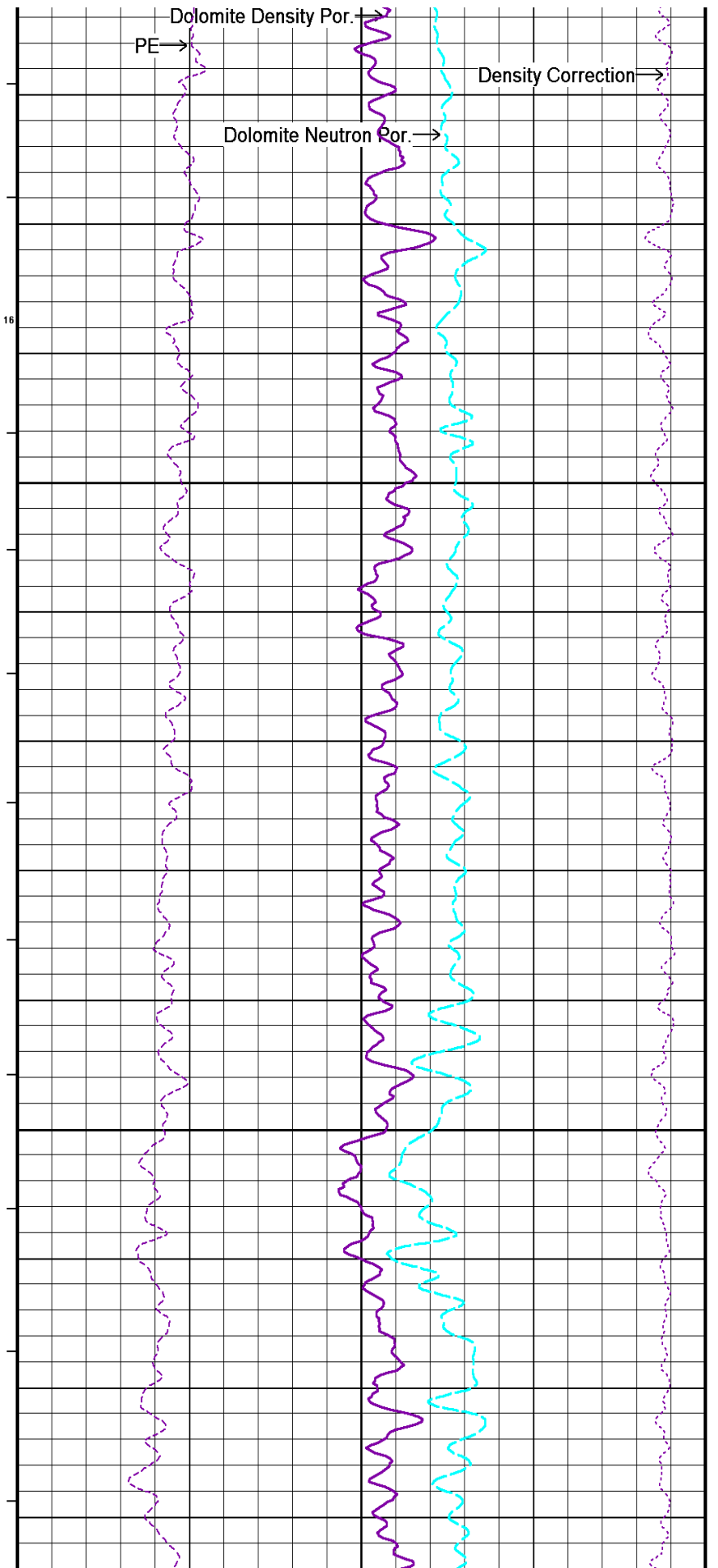
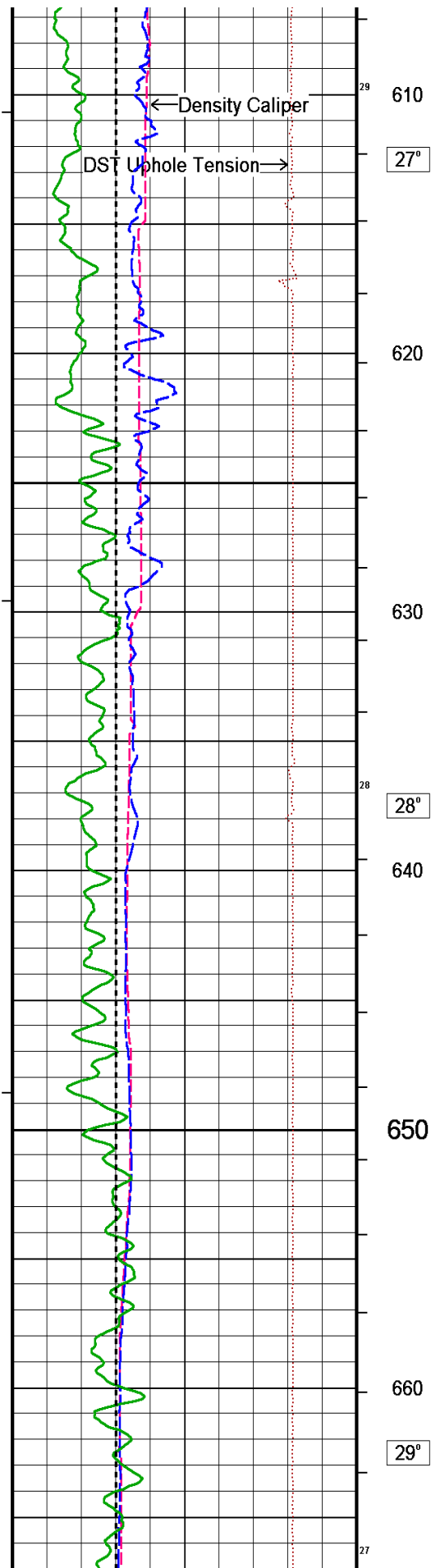
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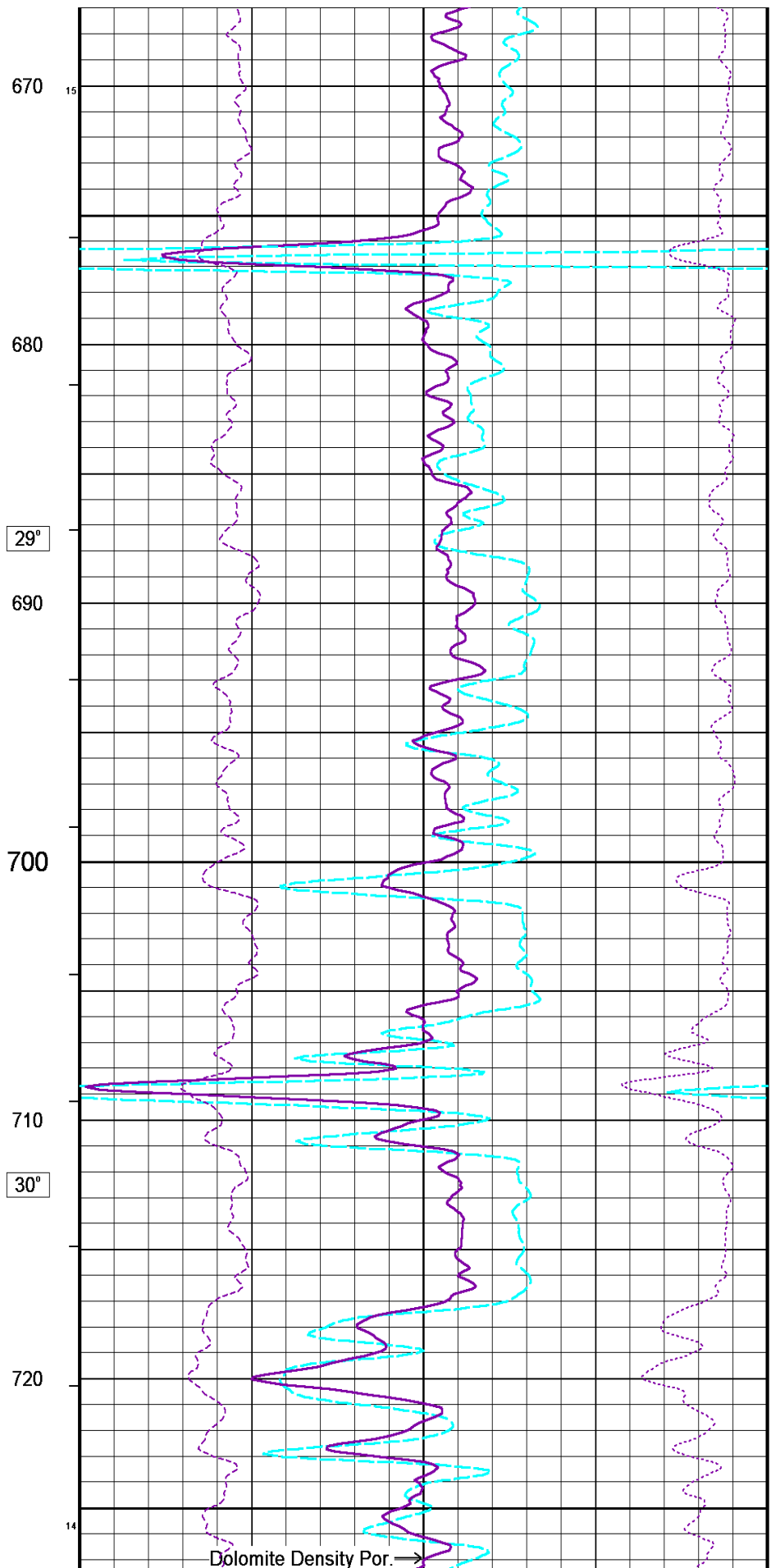
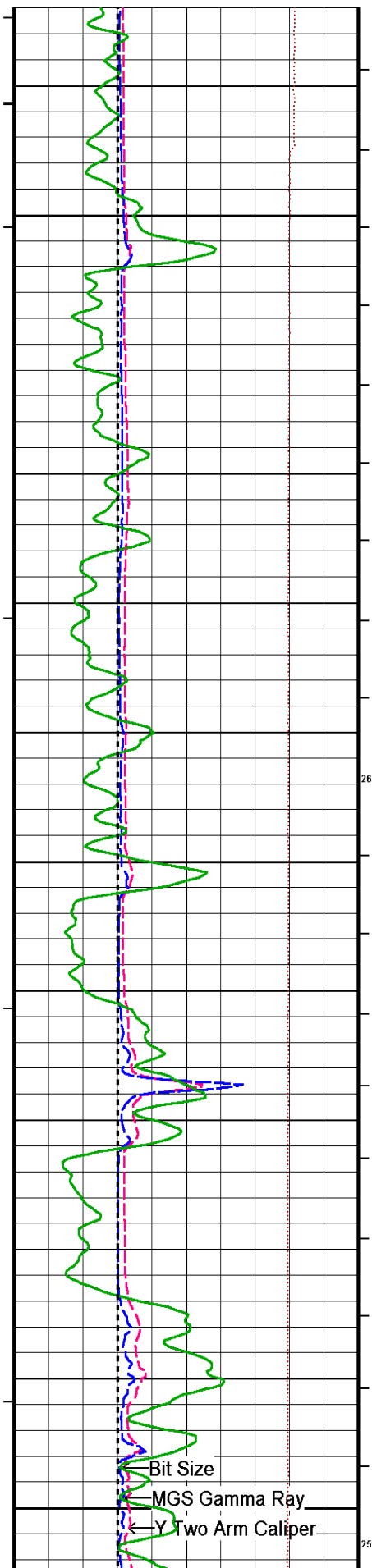


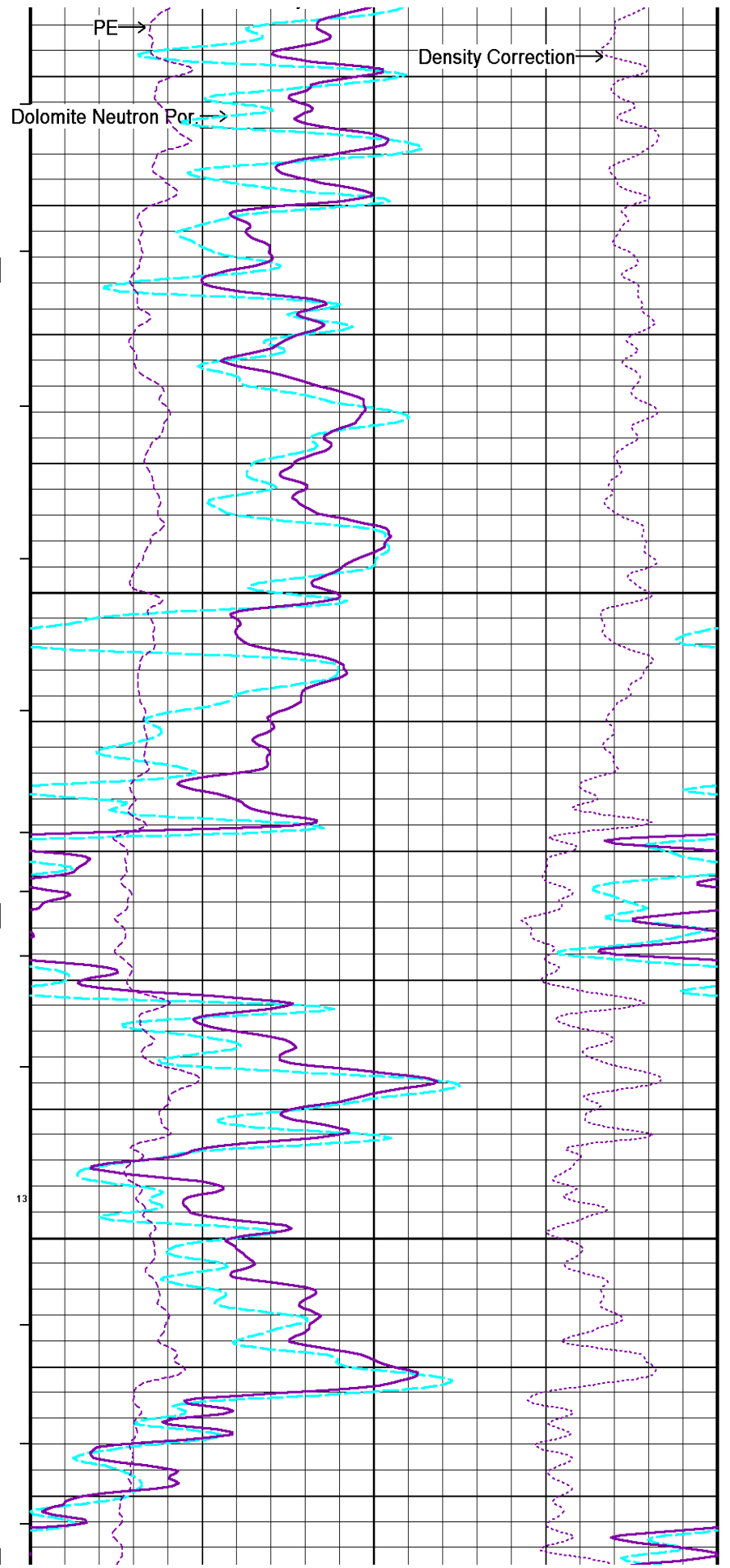
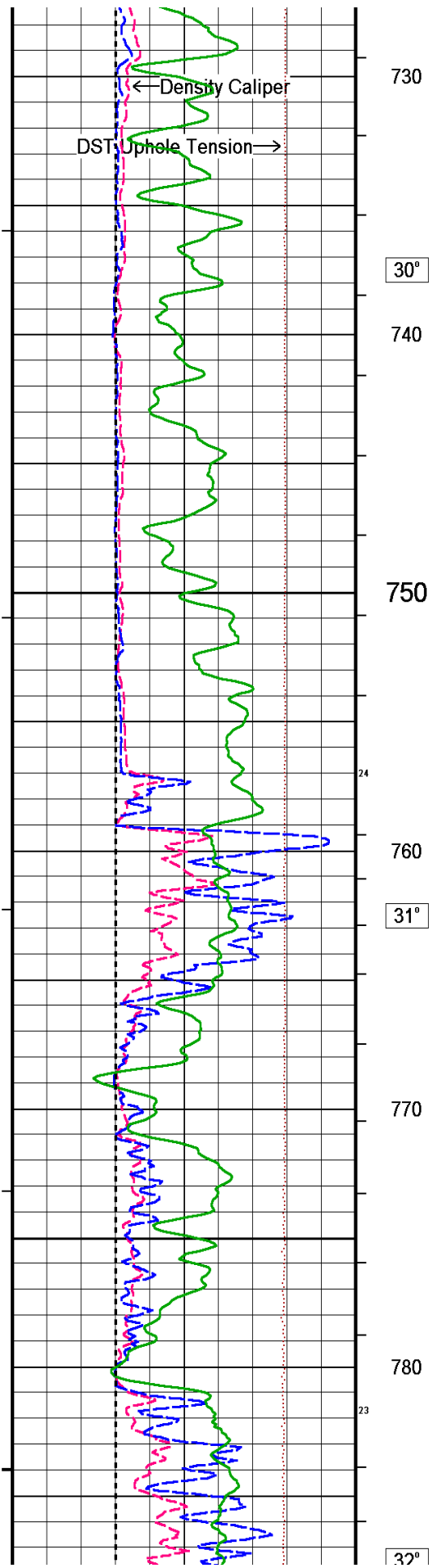


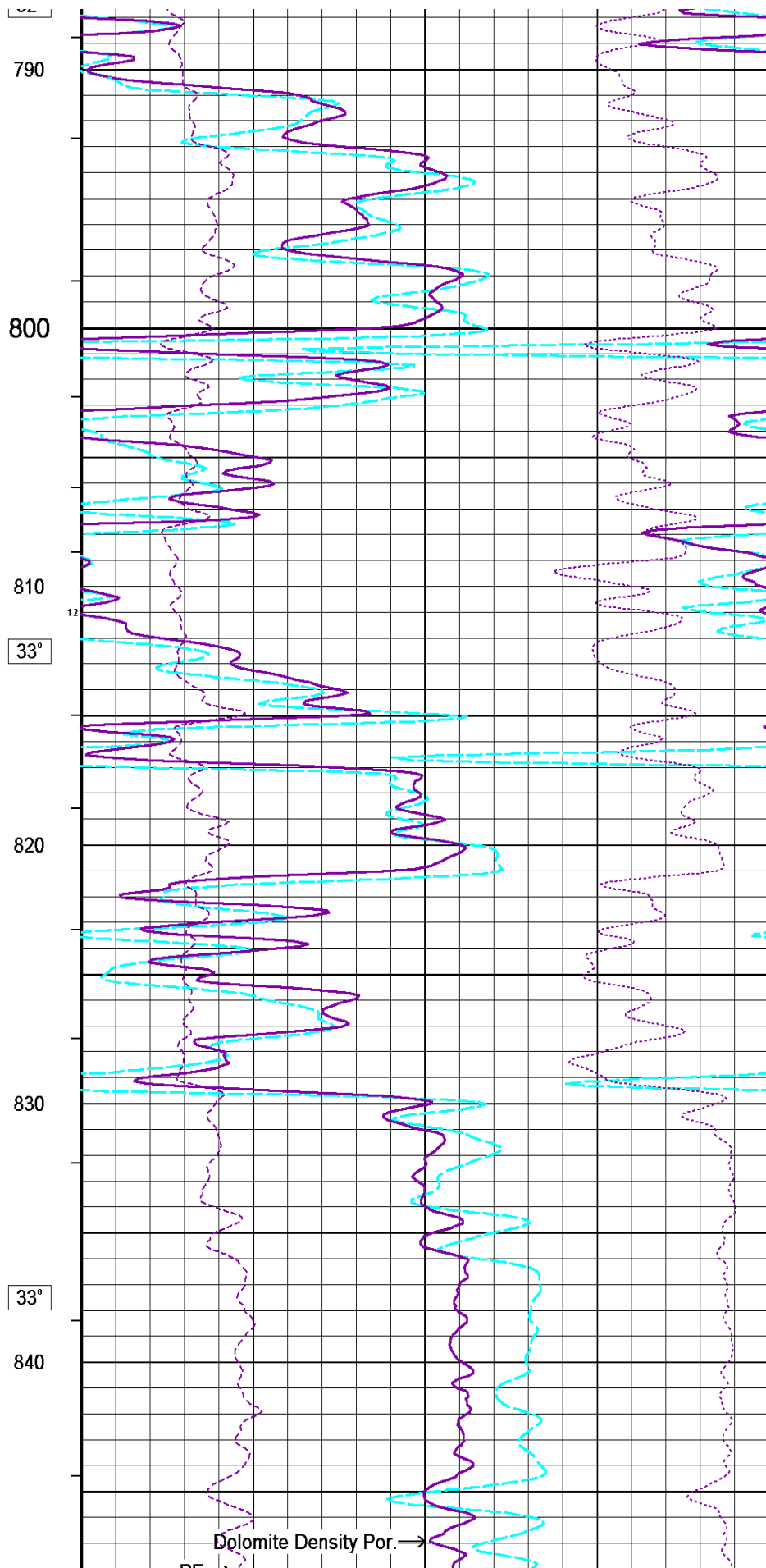
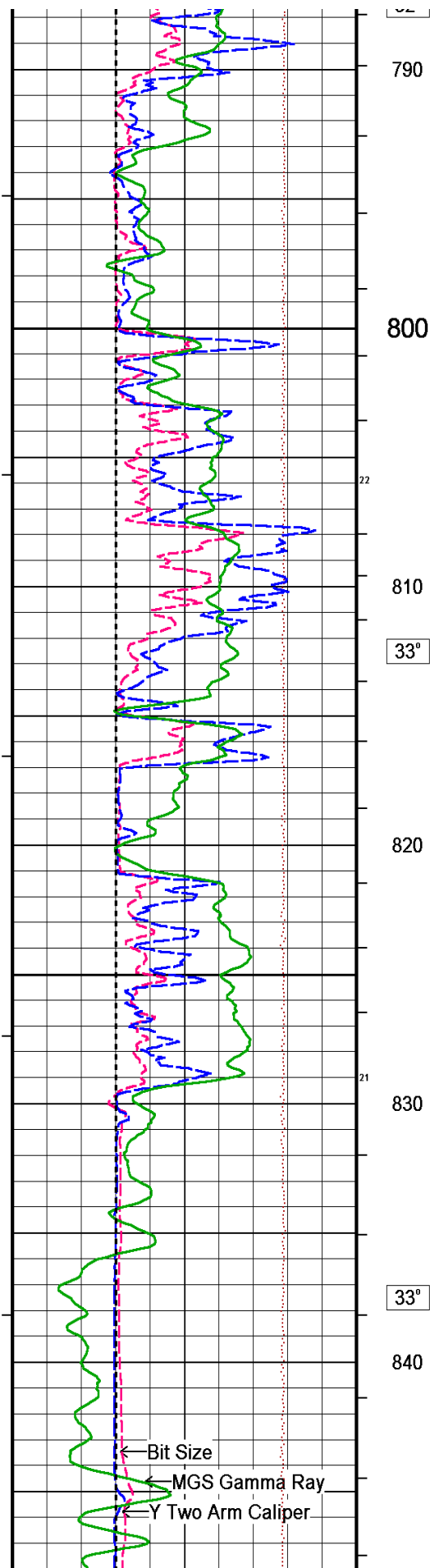


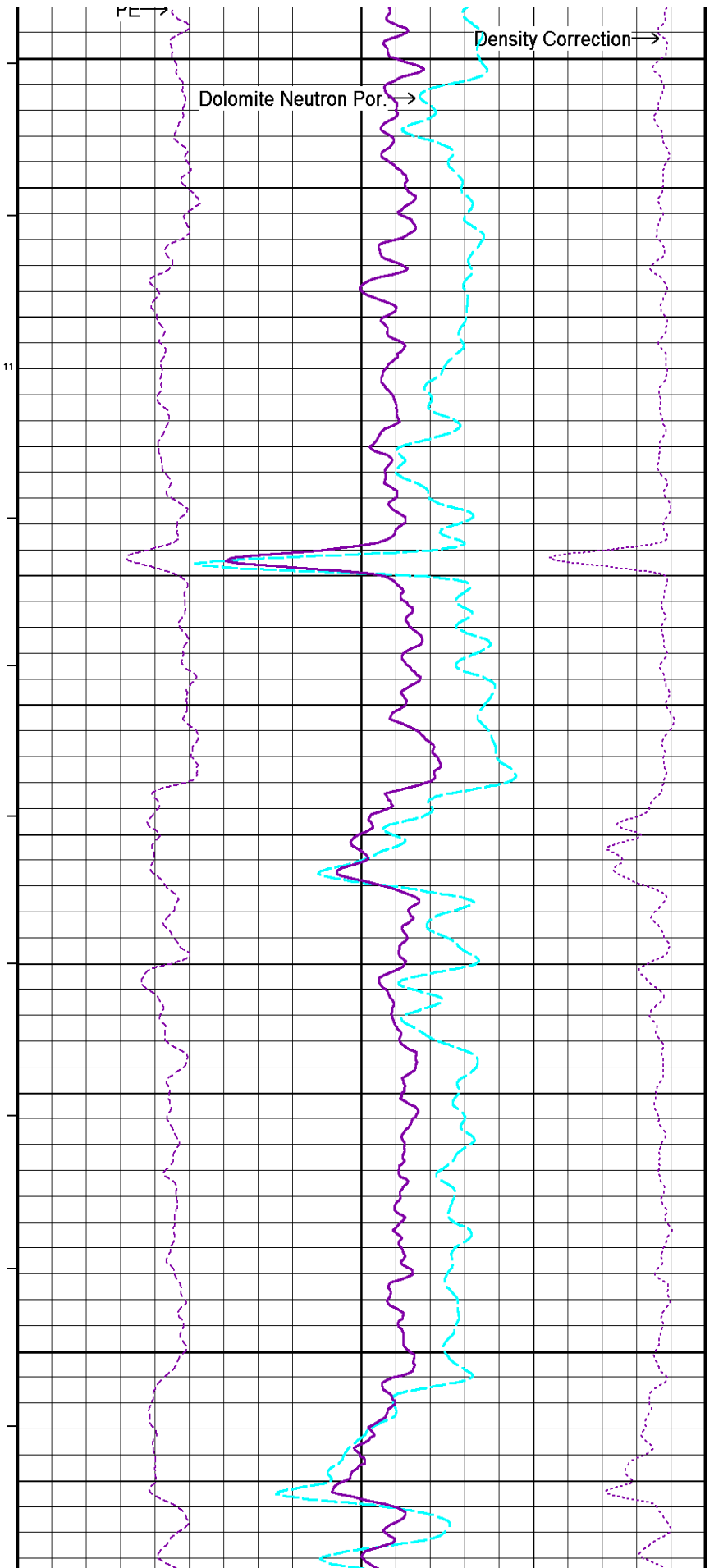
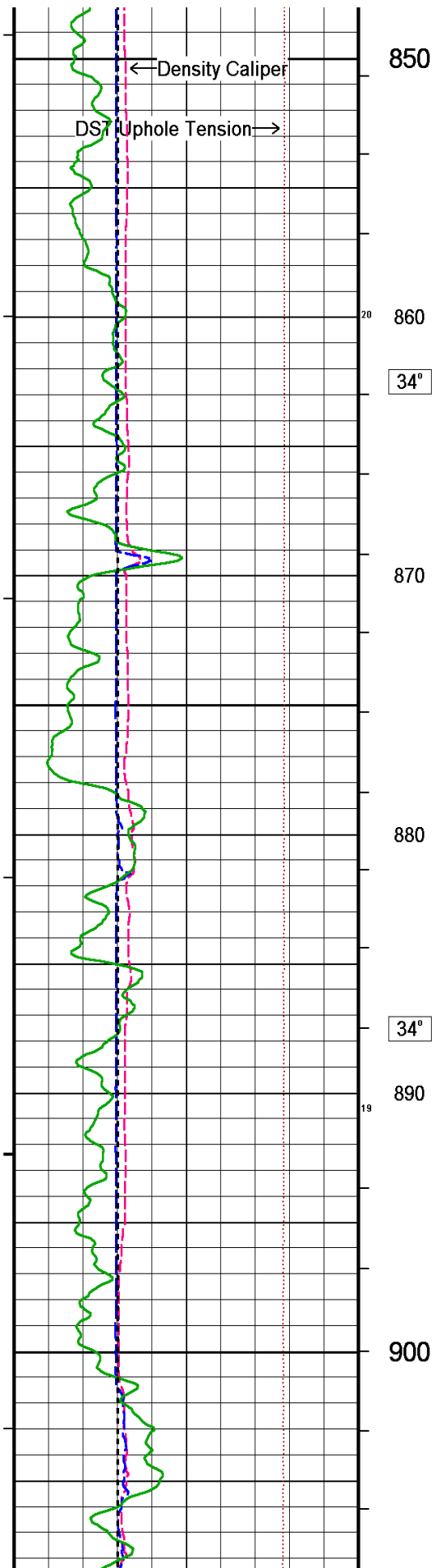


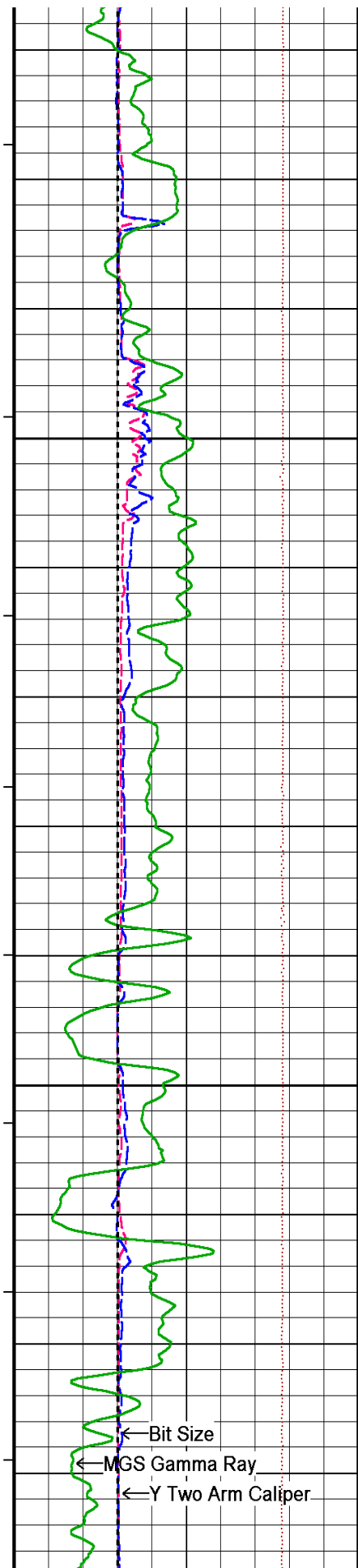












910

35°

920

930

35°

940

950

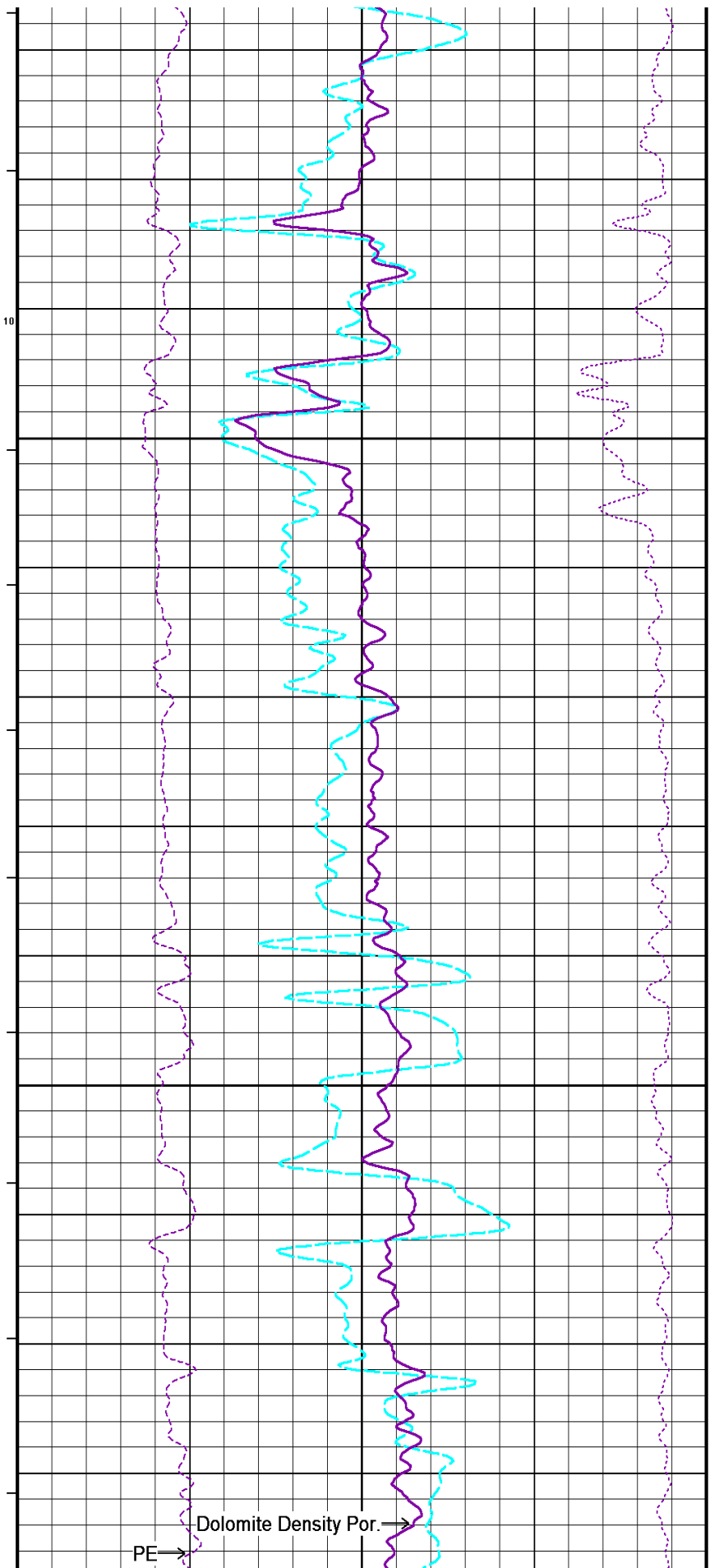
960

36°

← Bit Size

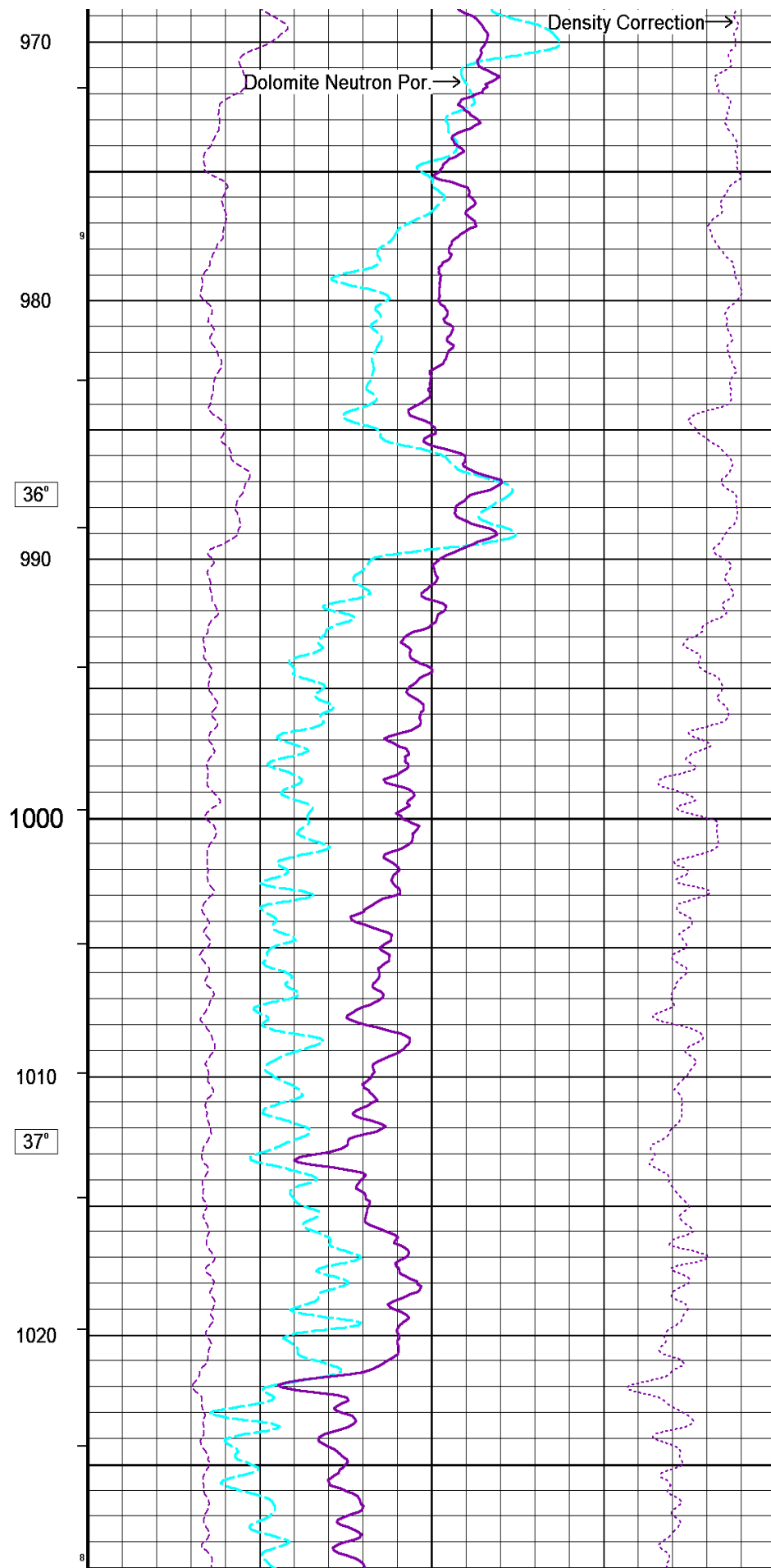
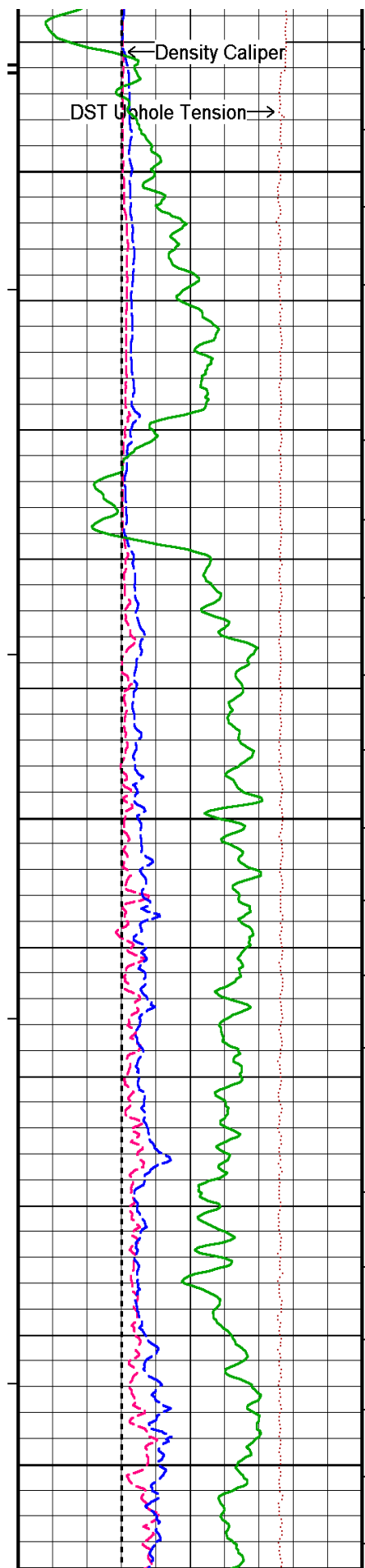
← MGS Gamma Ray

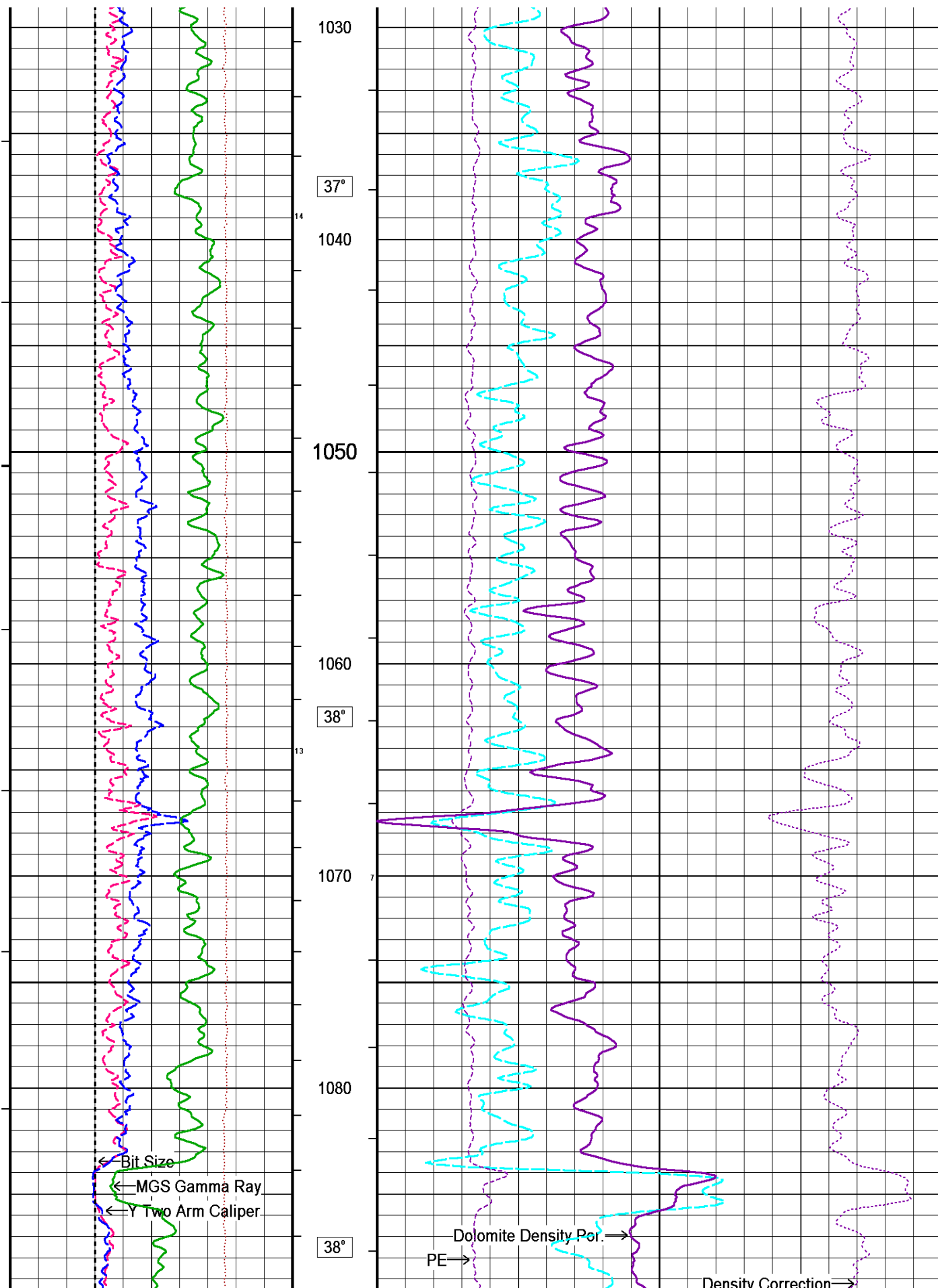
← Y Two Arm Caliper

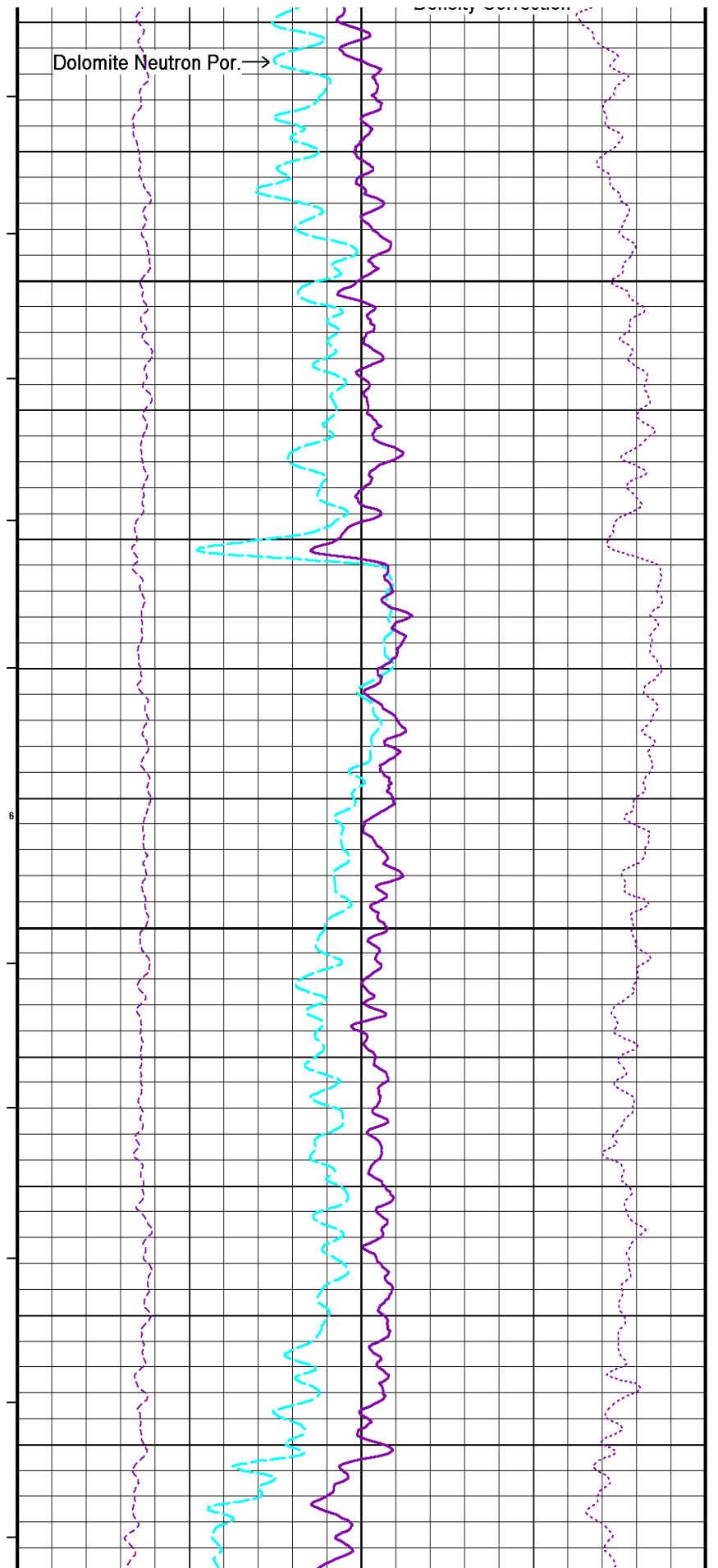
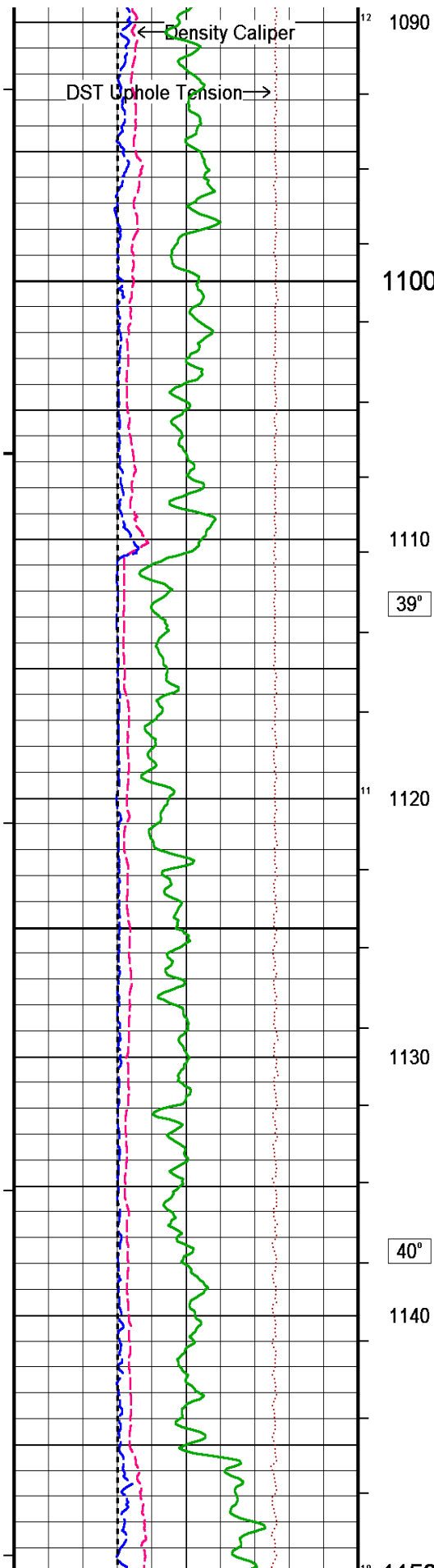


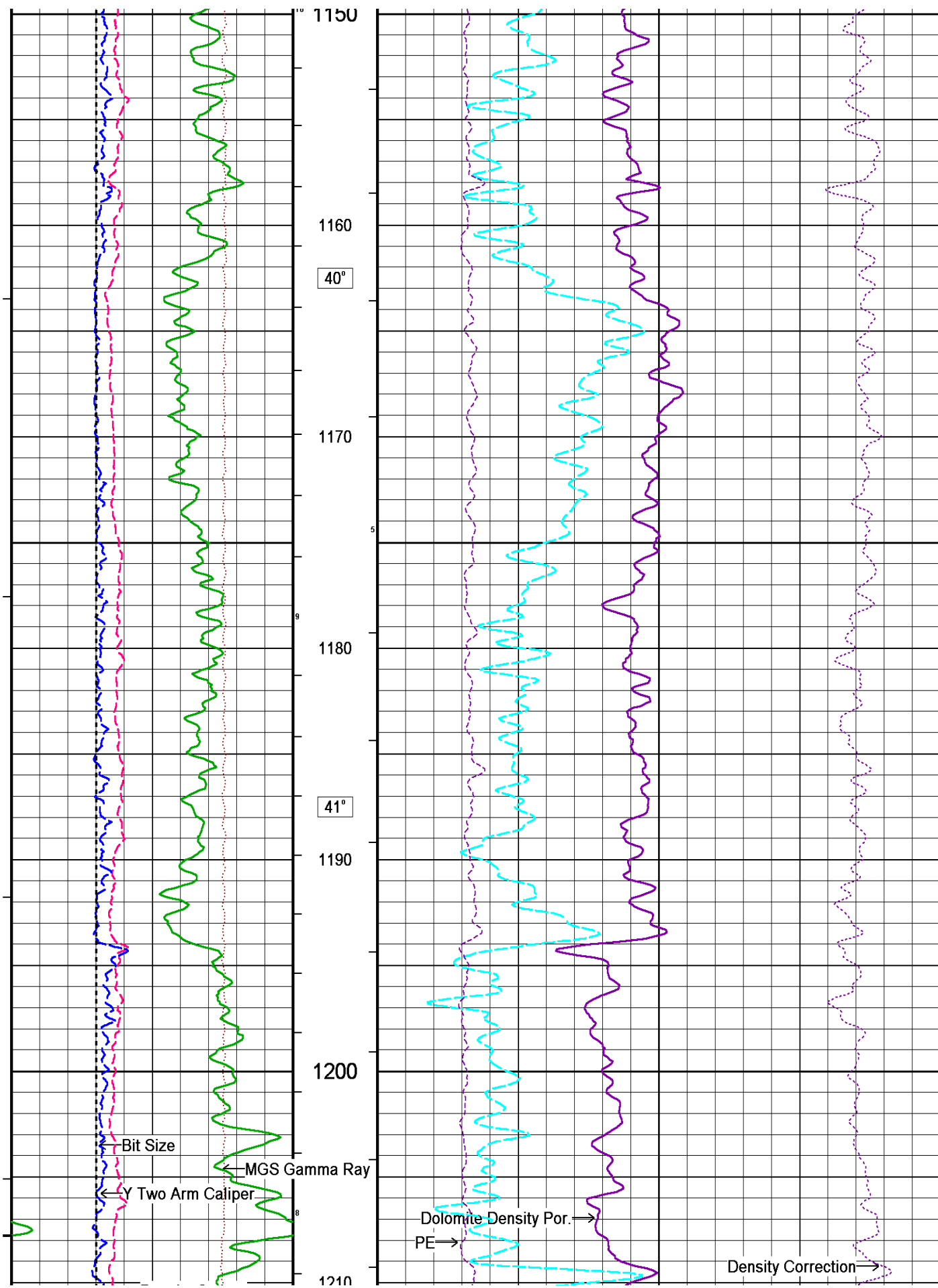
PE →

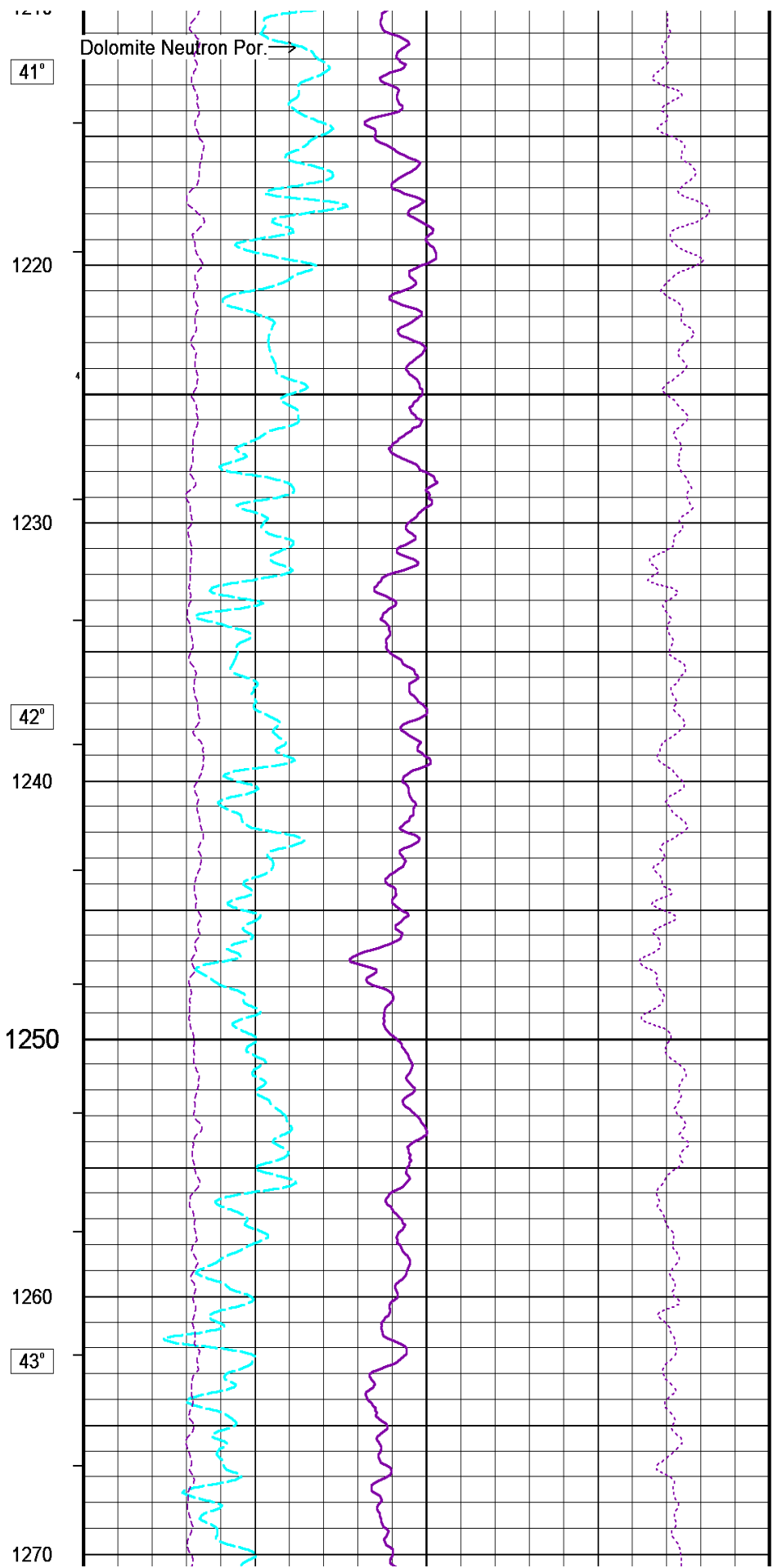
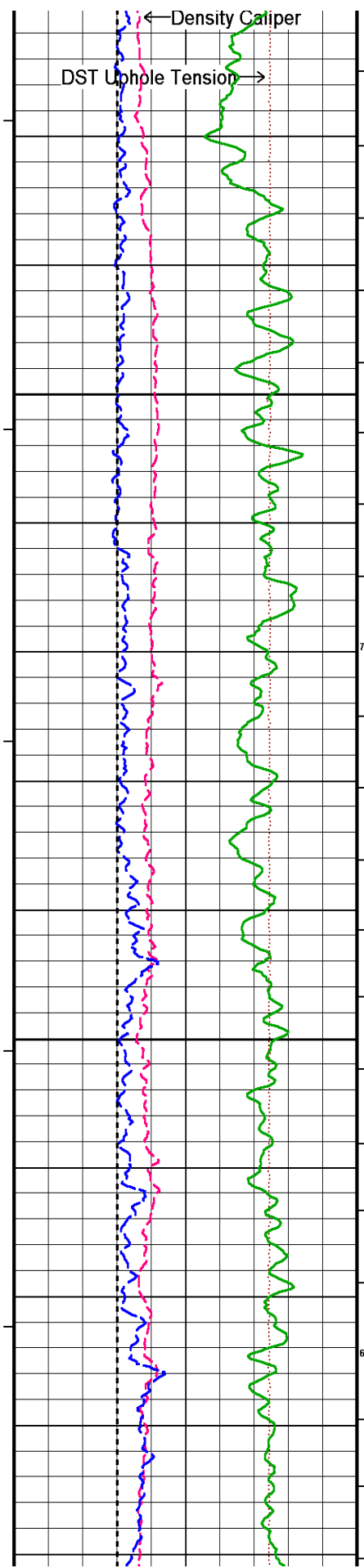
→ Dolomite Density Por.

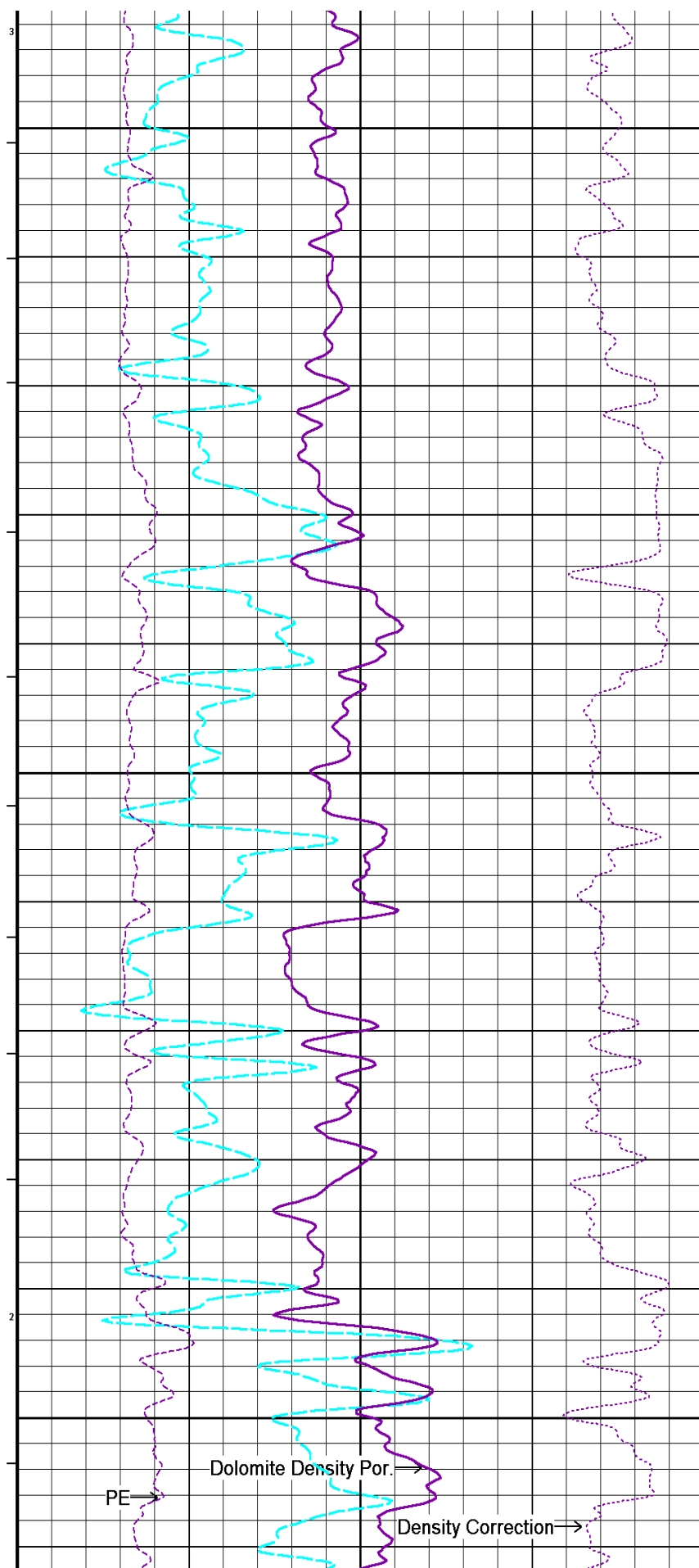
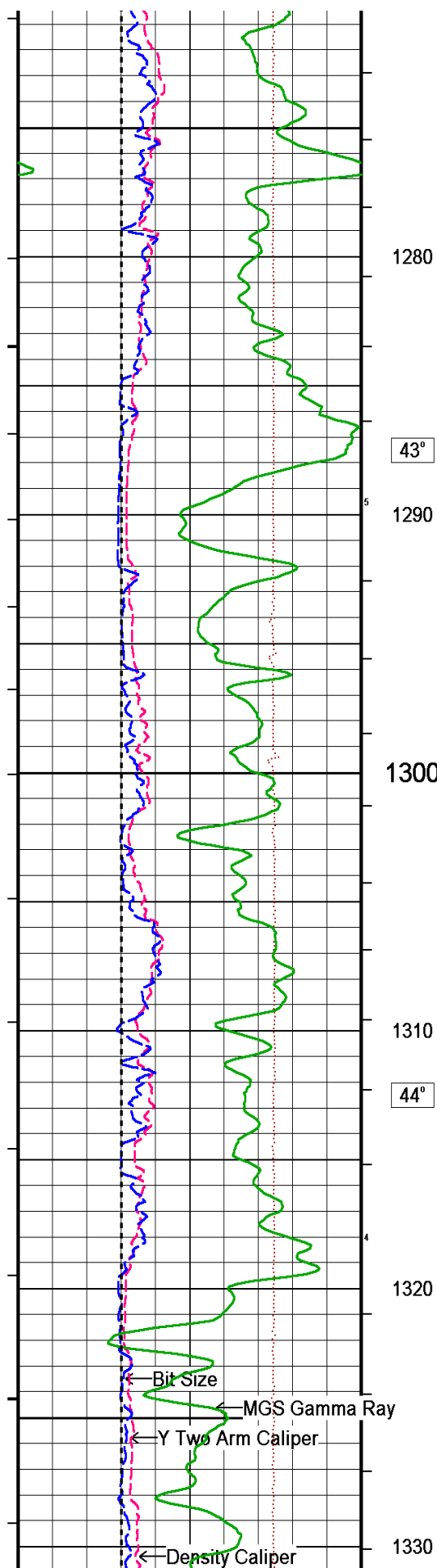


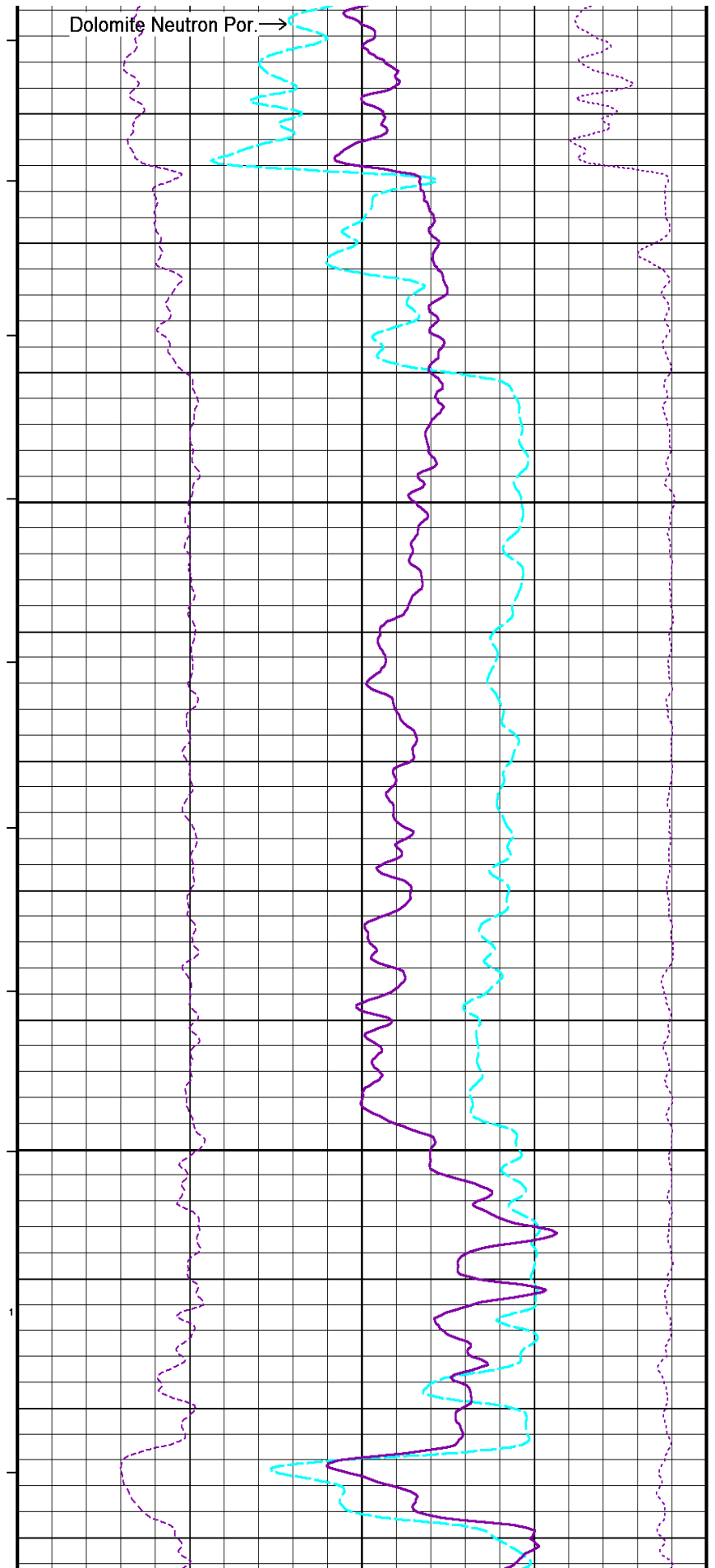
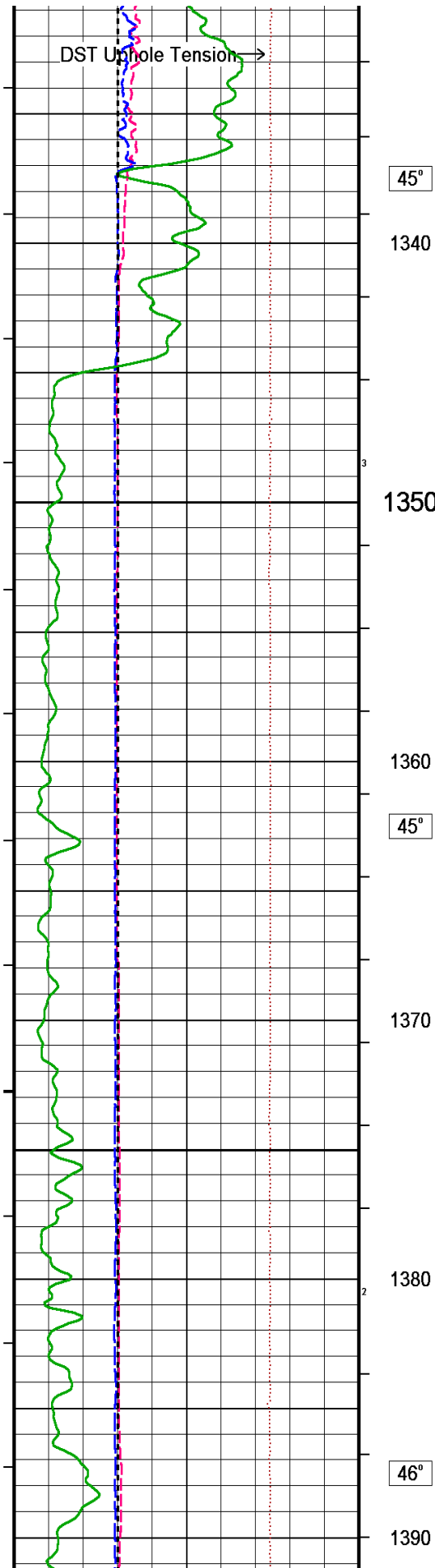


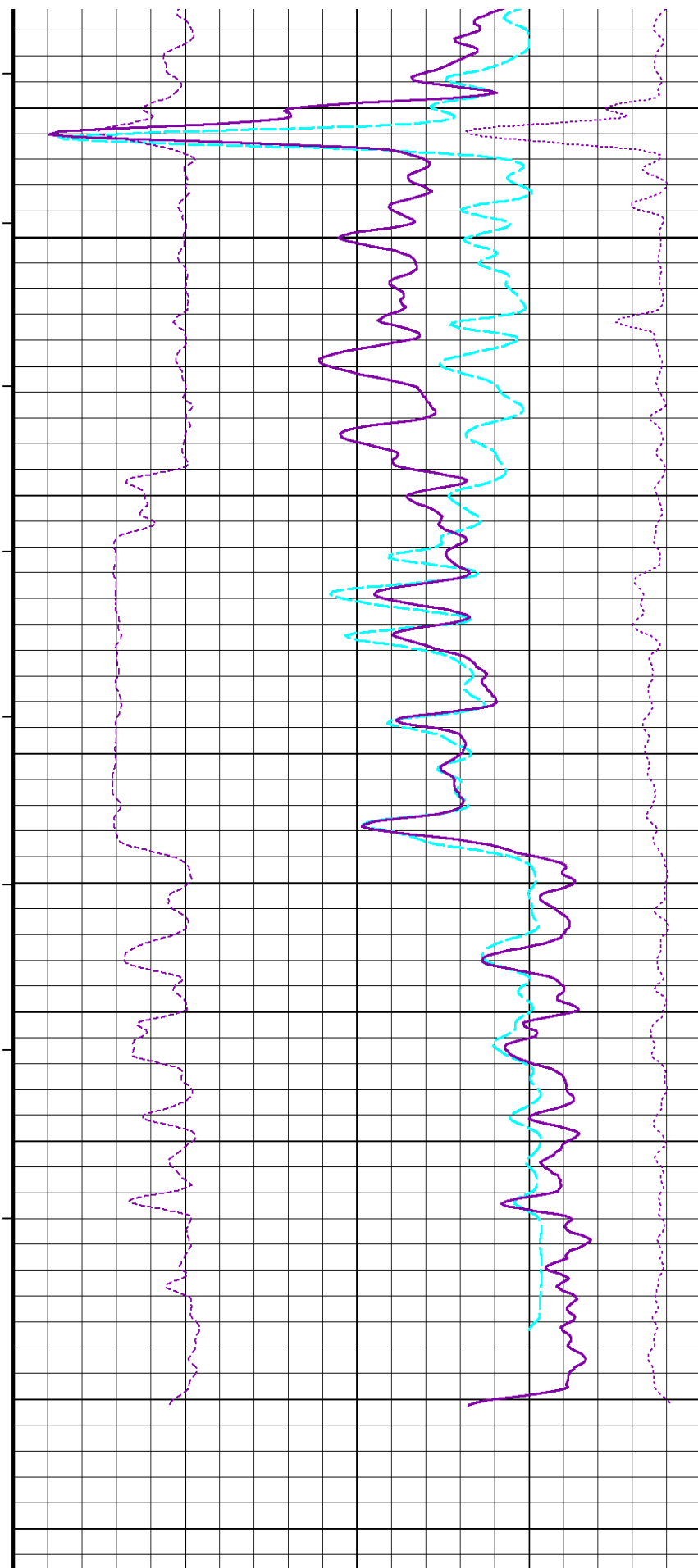
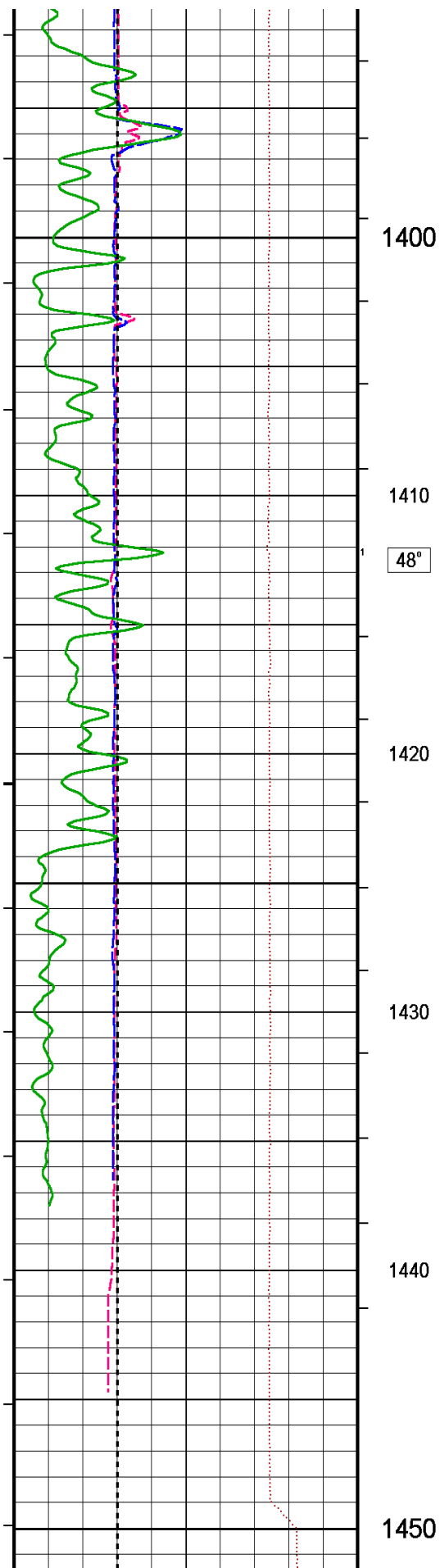


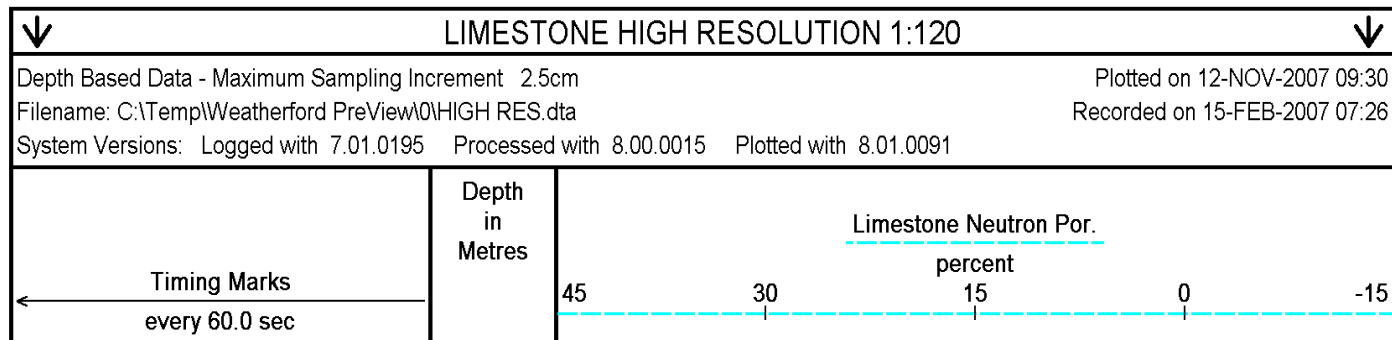
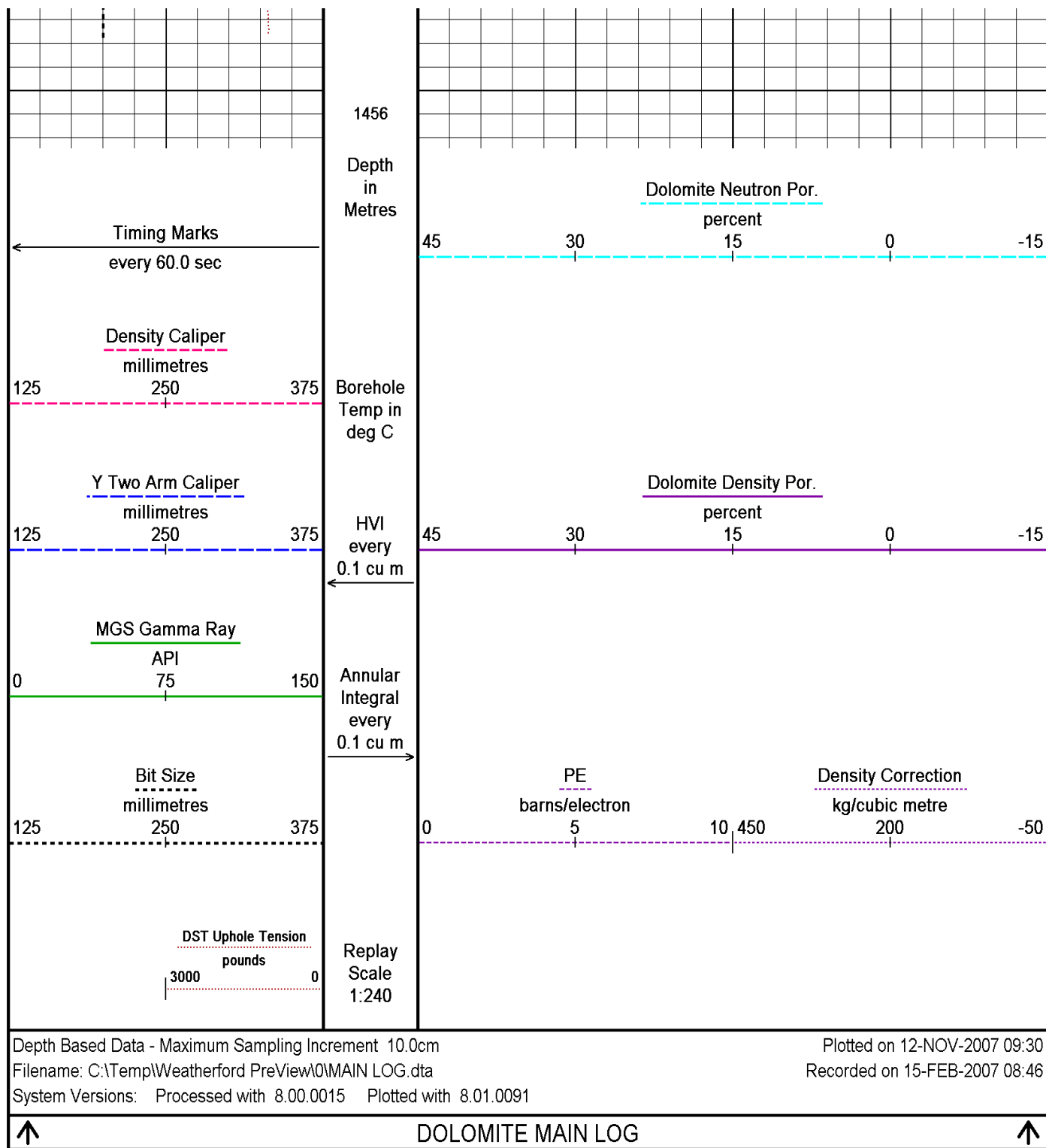


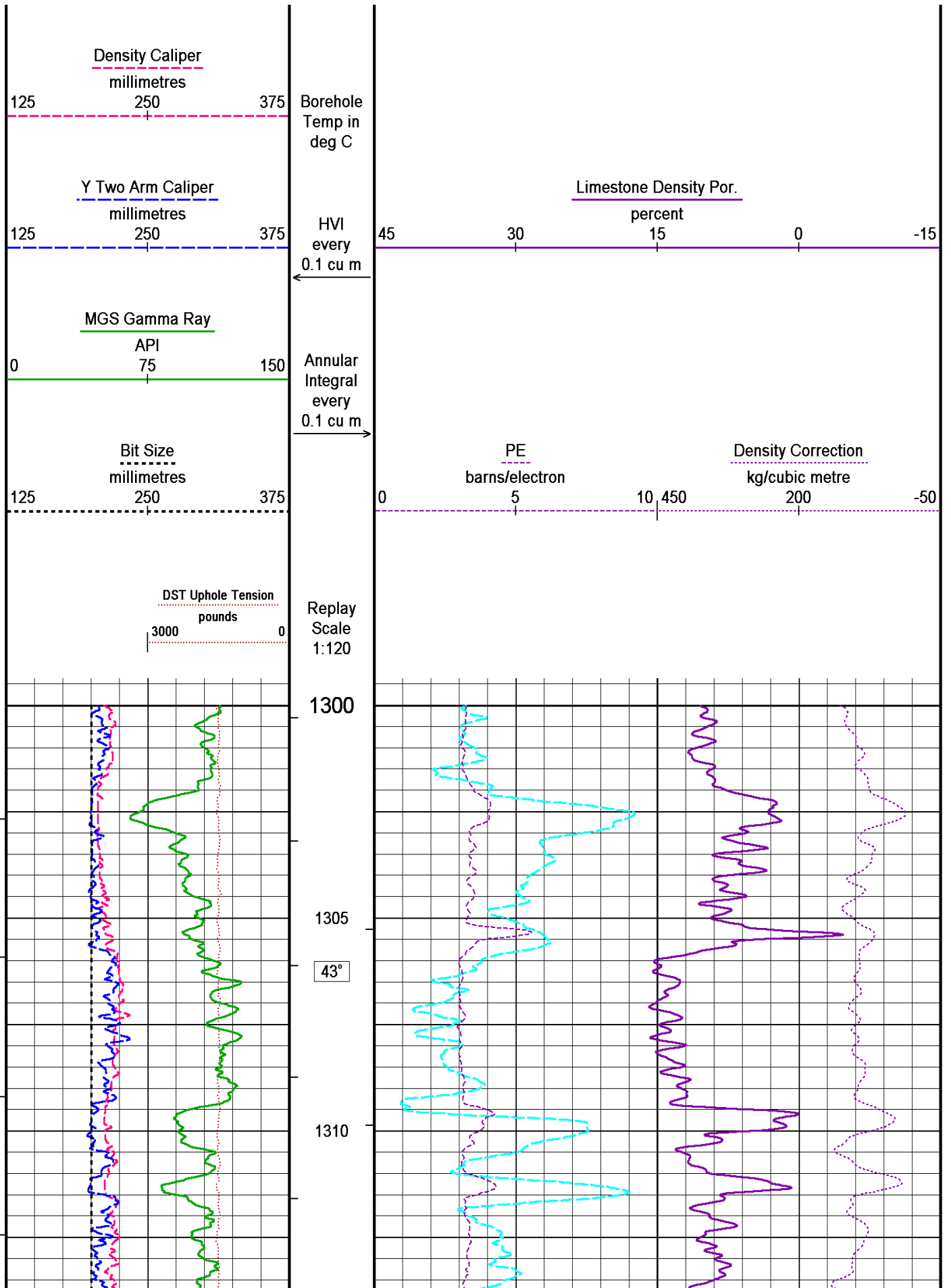


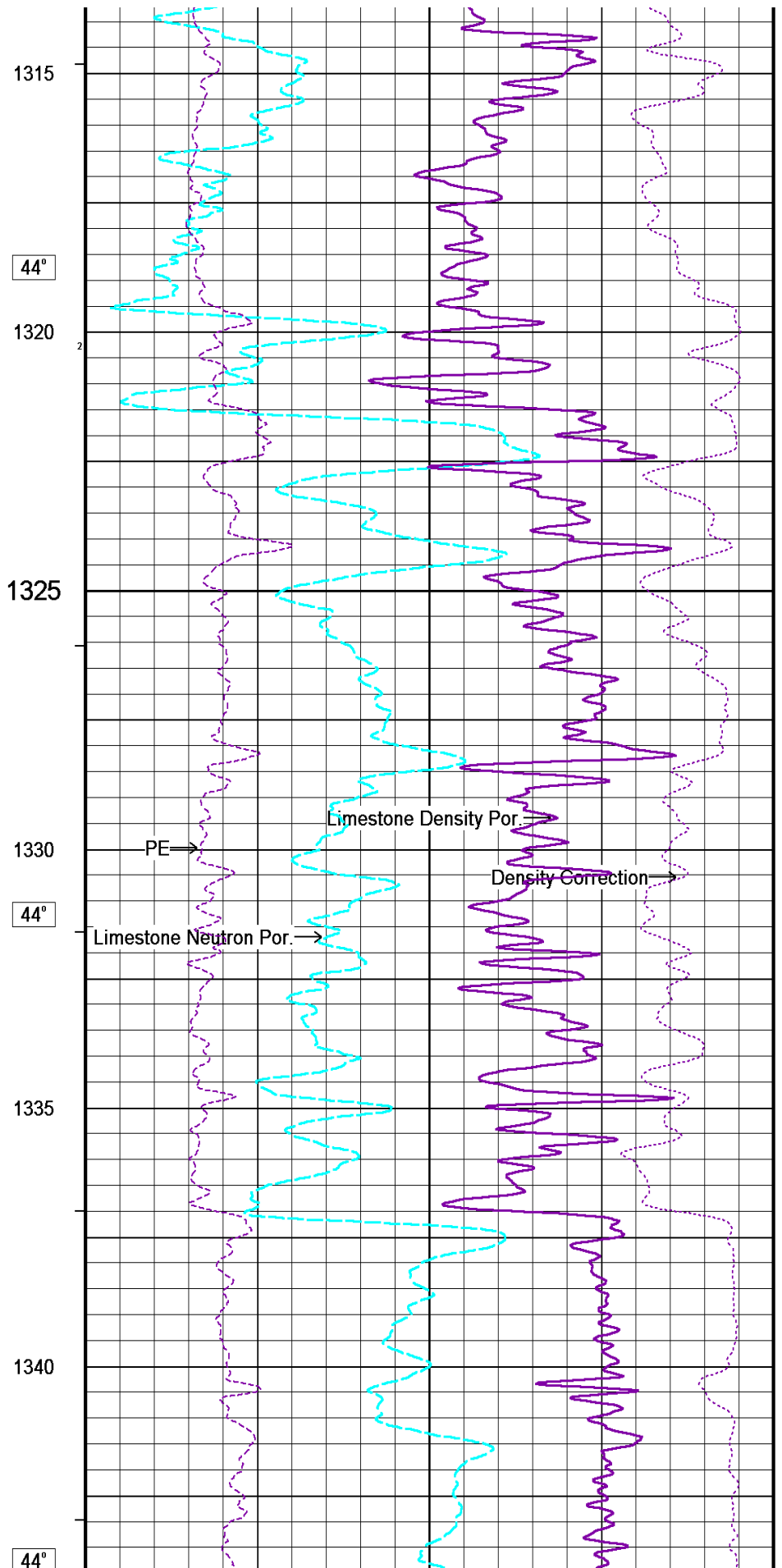
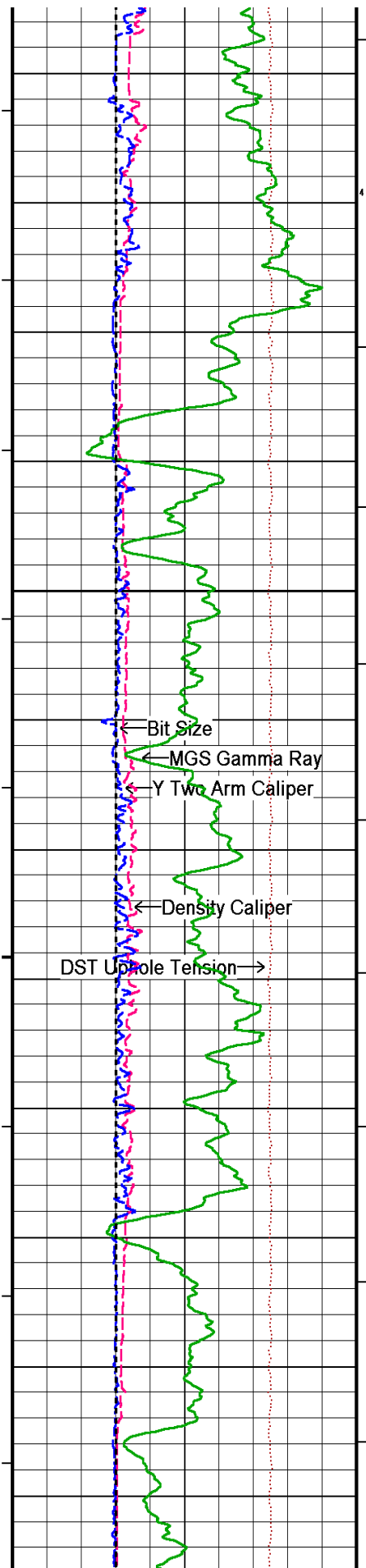


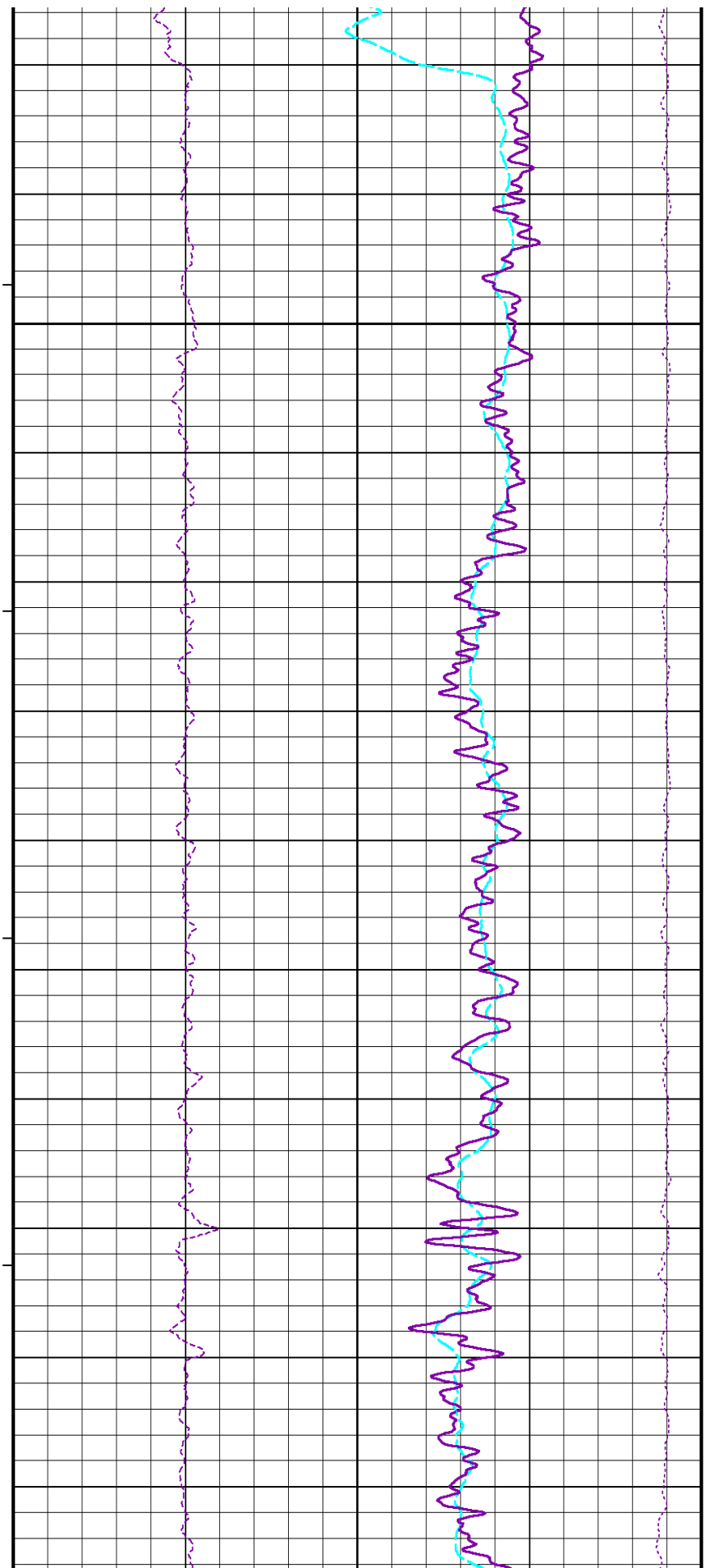
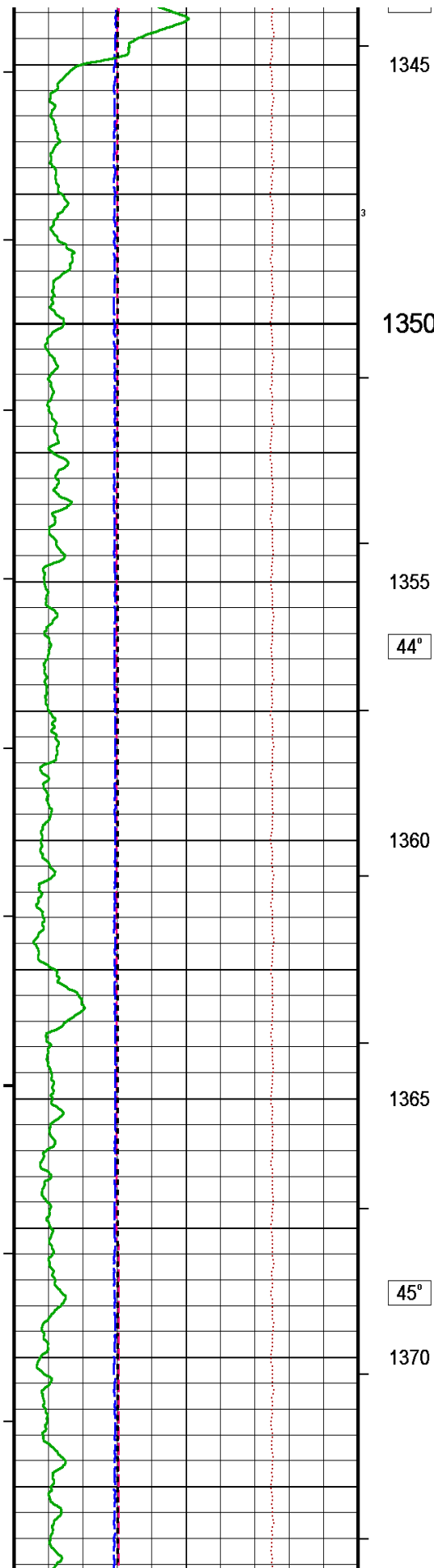


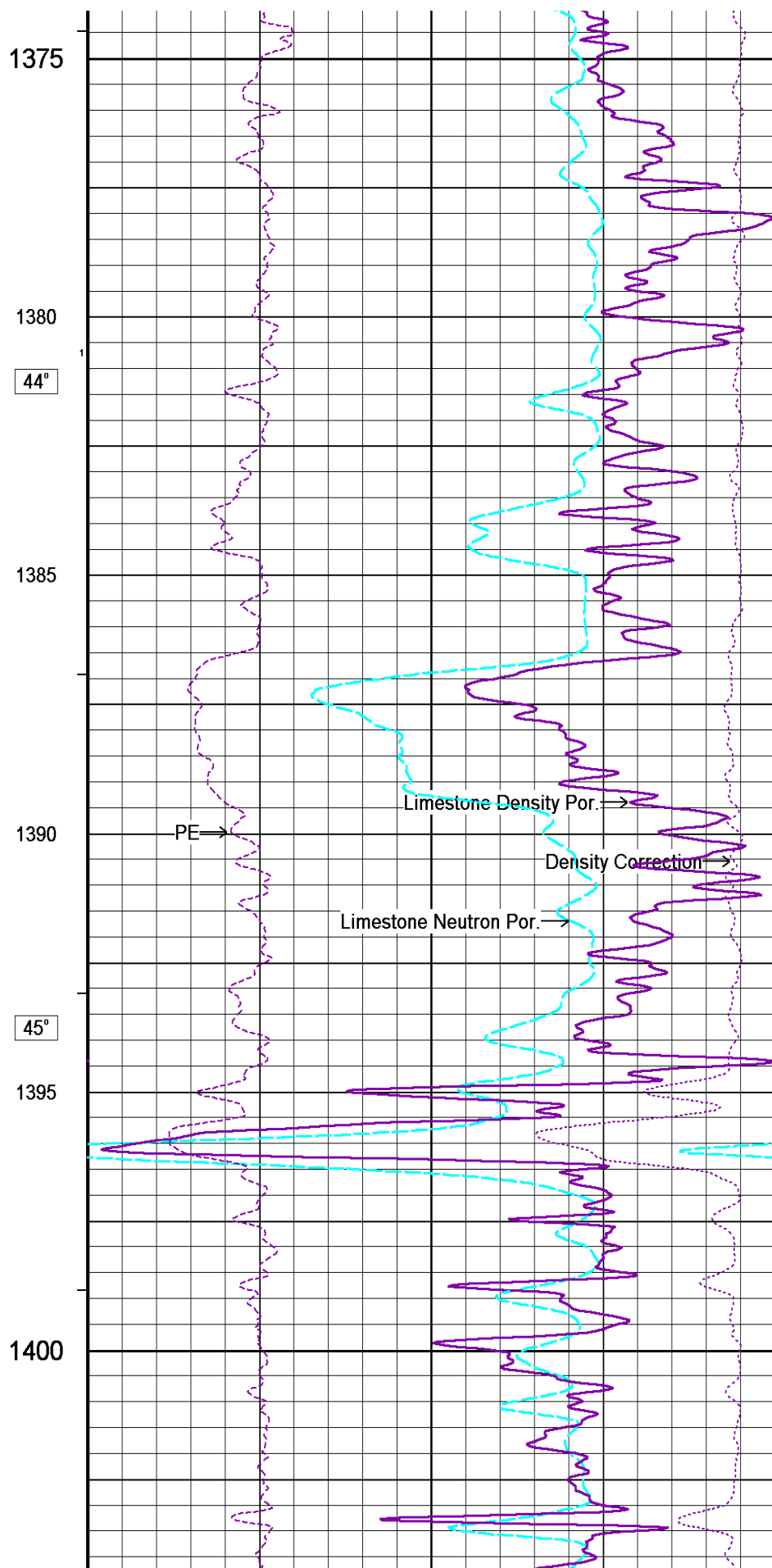
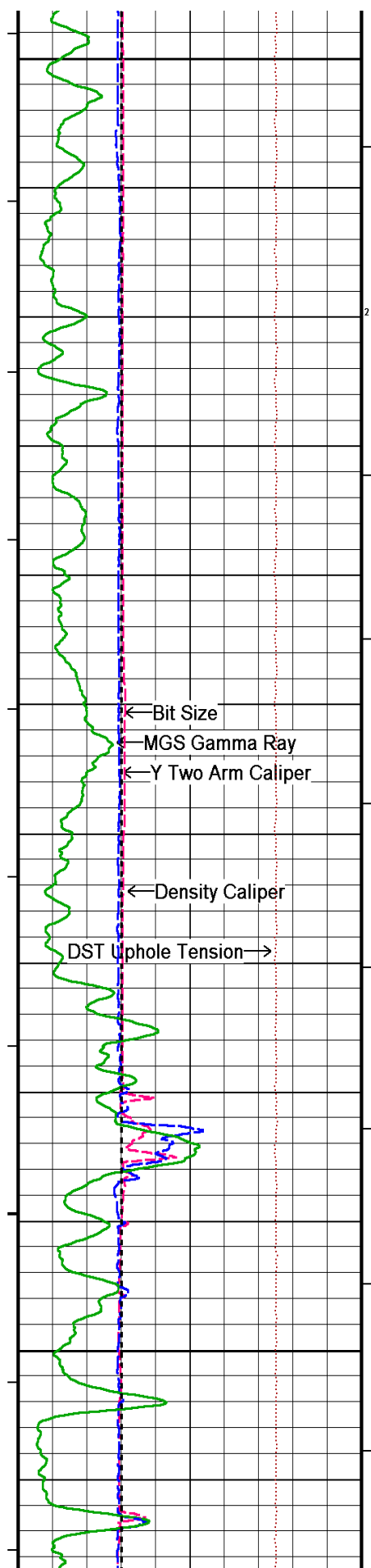


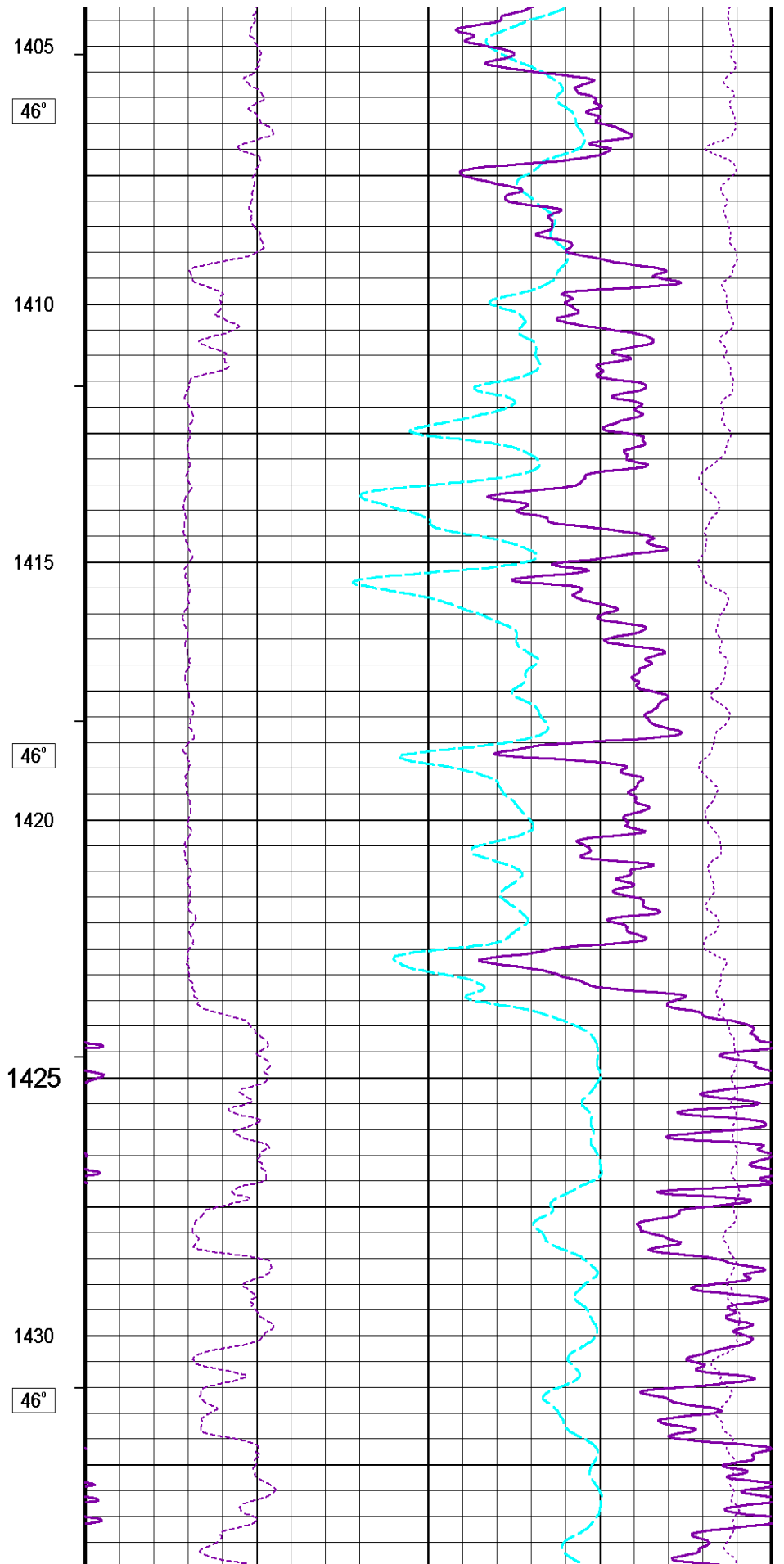
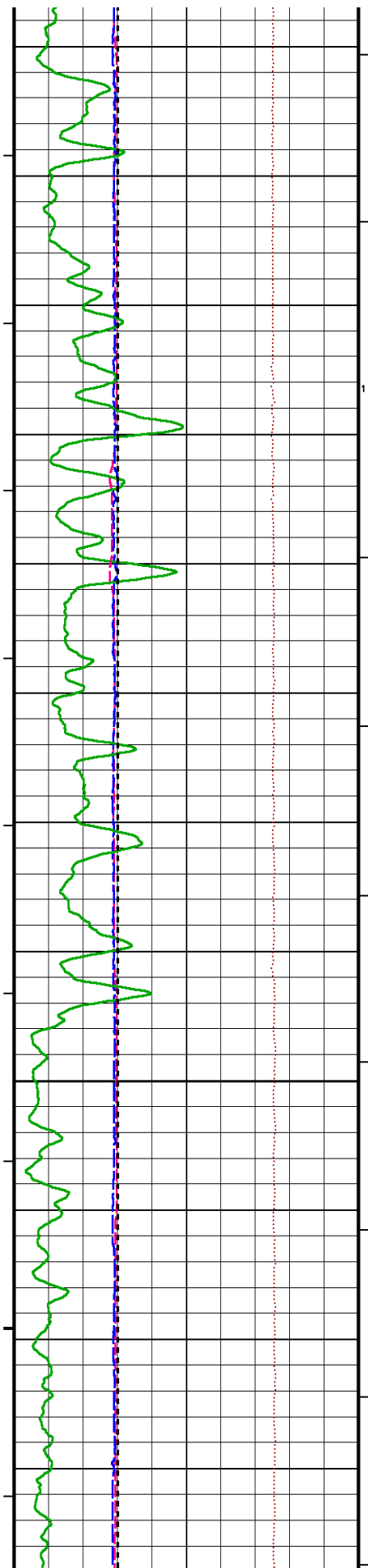


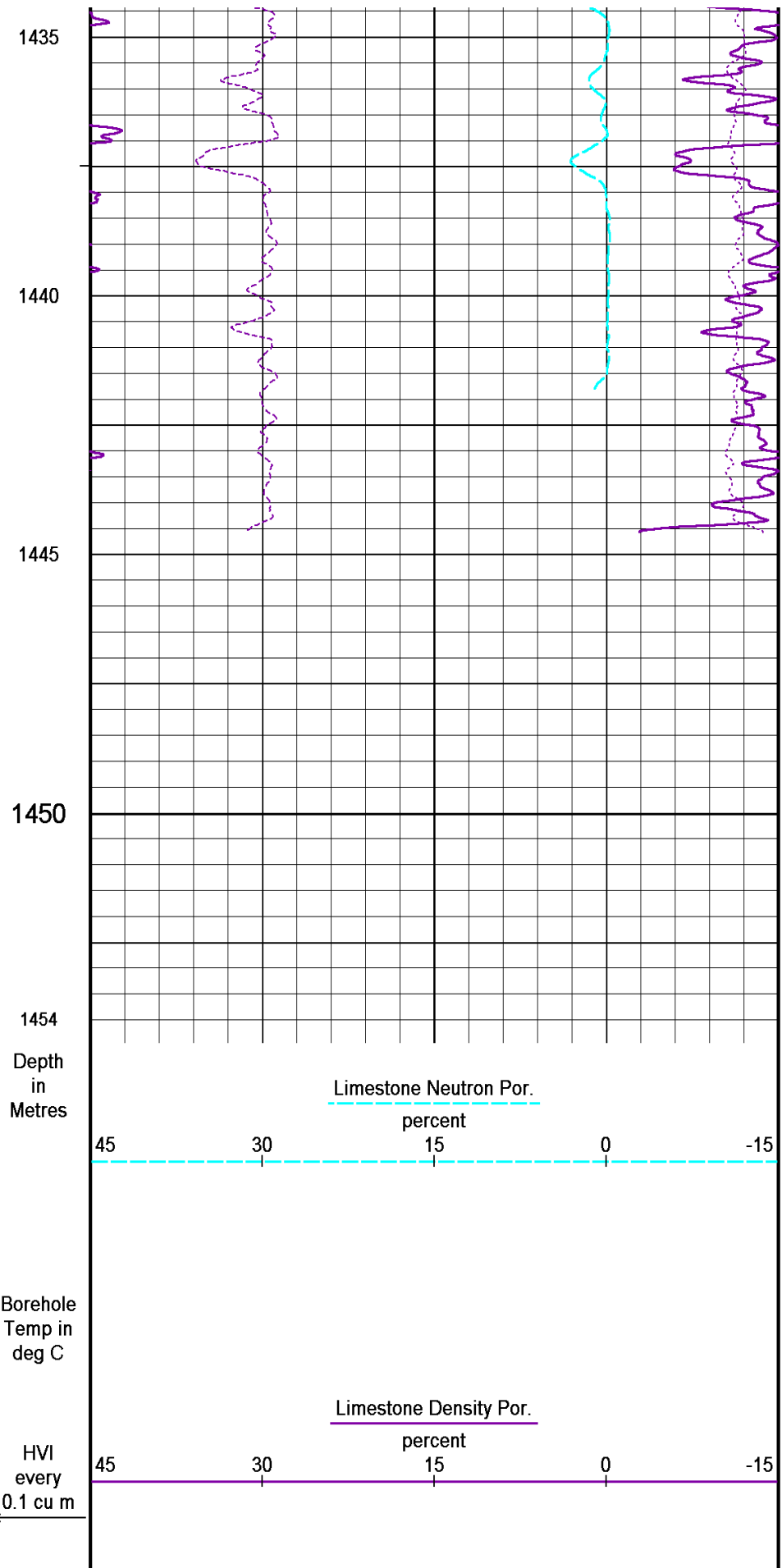
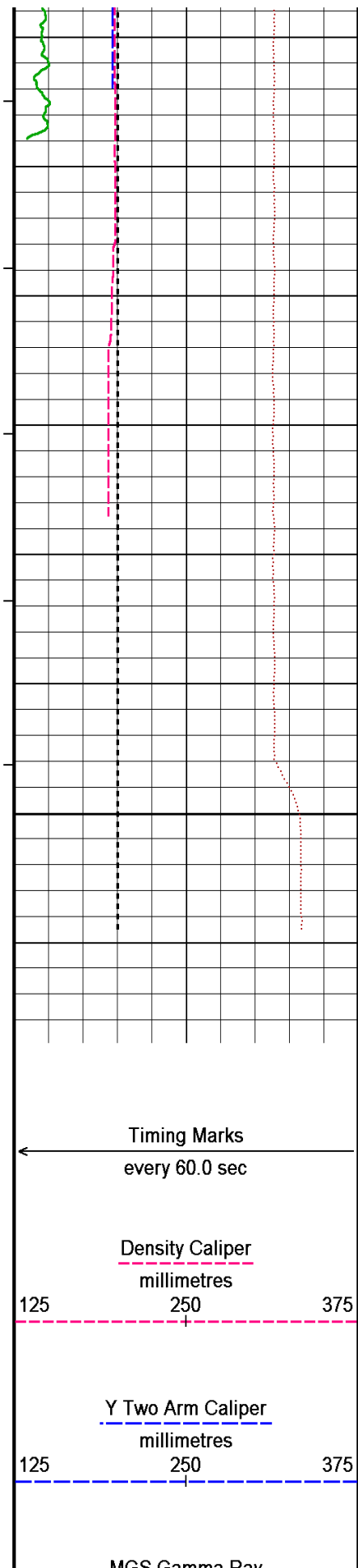


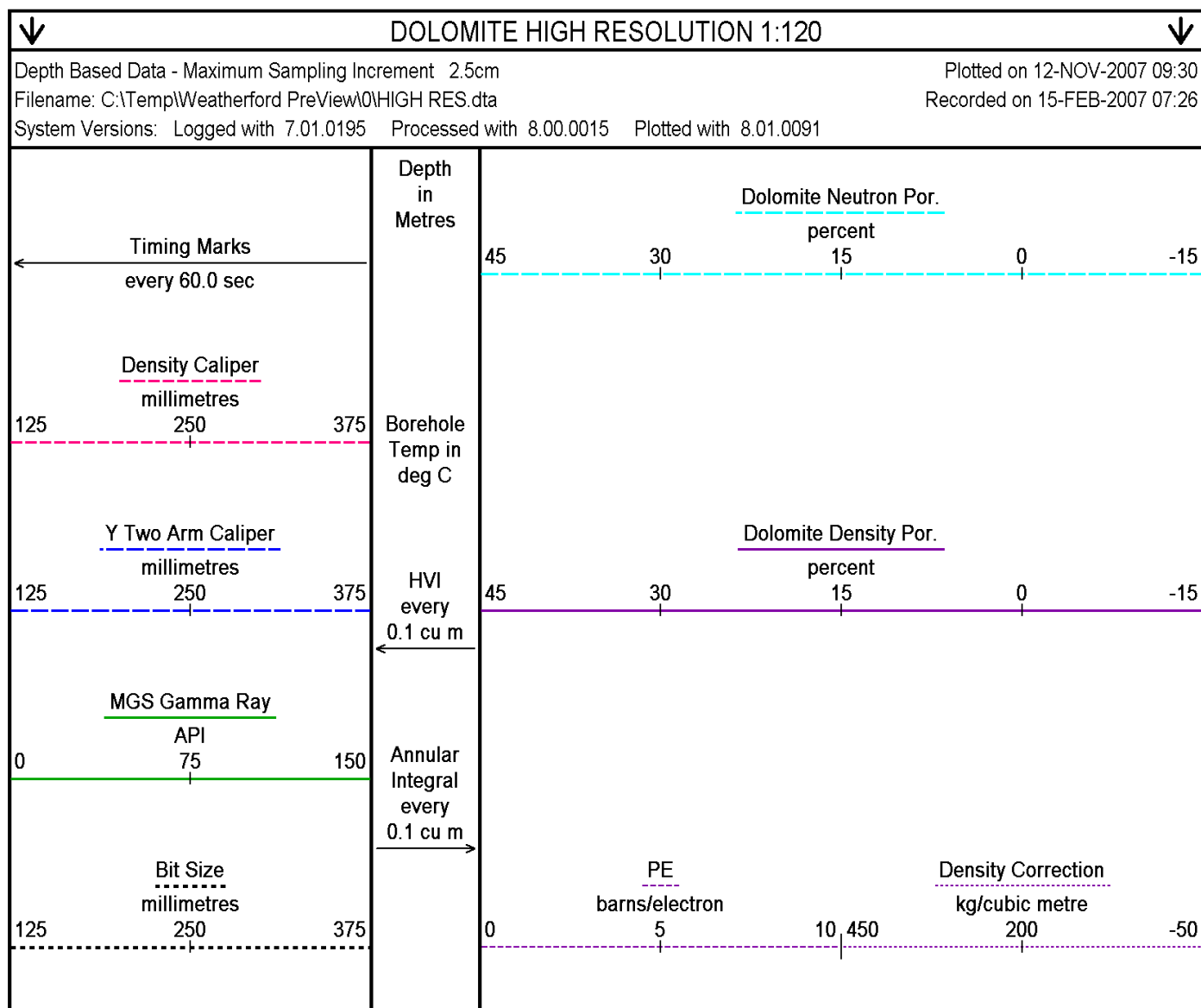
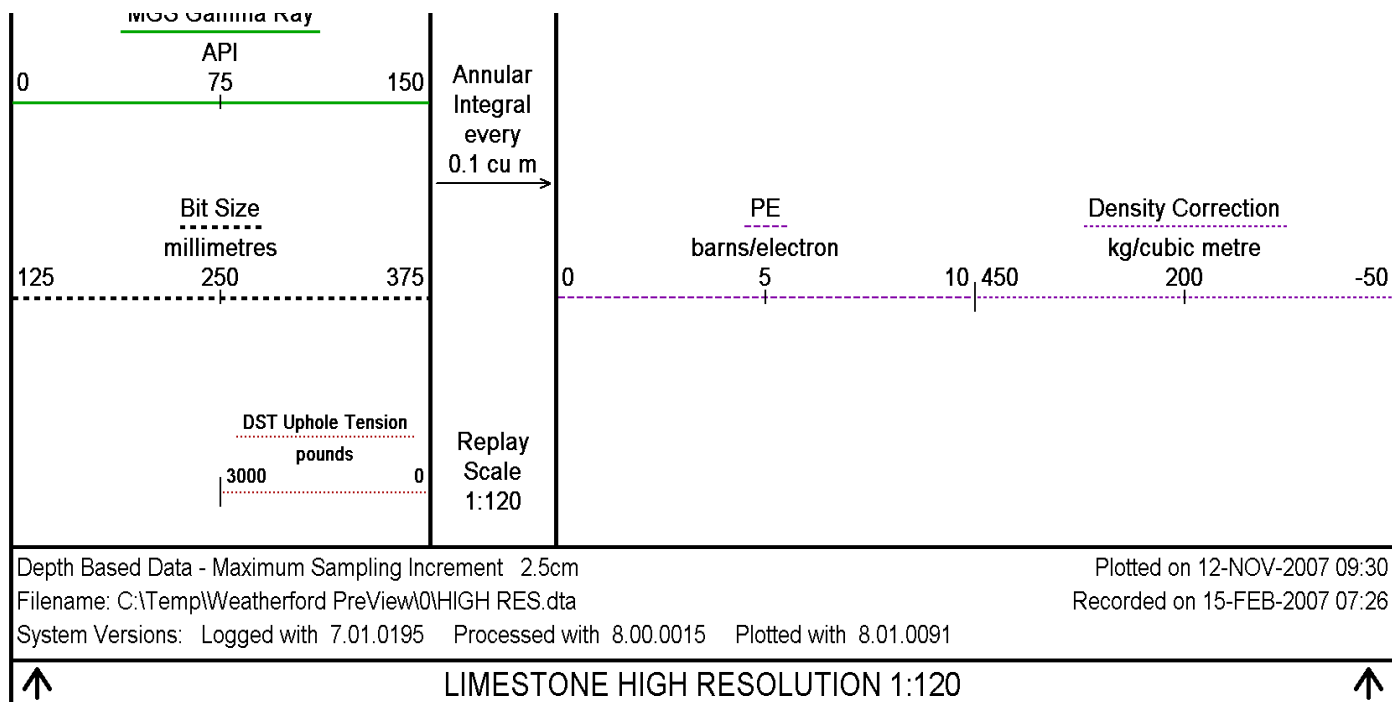


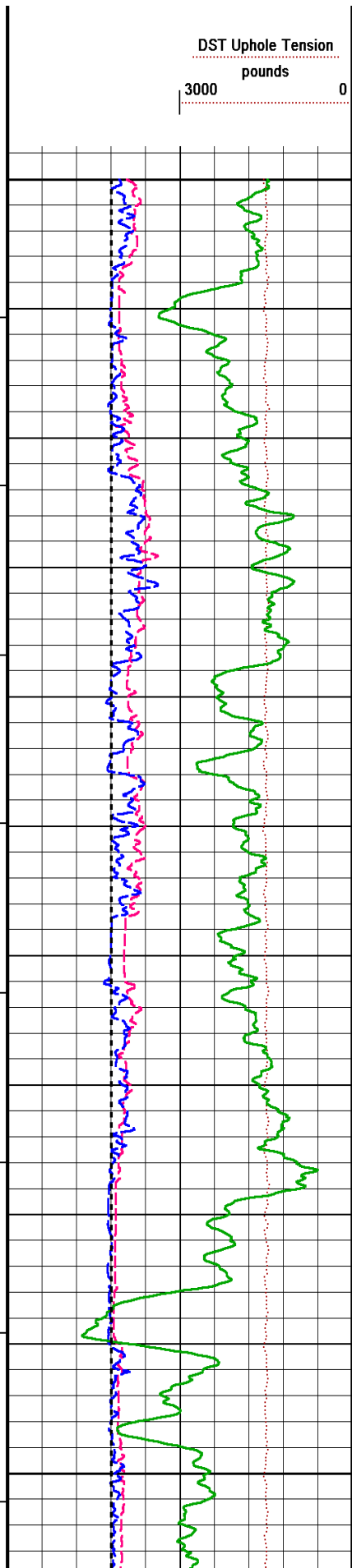












Replay
Scale
1:120

1300

1305

43°

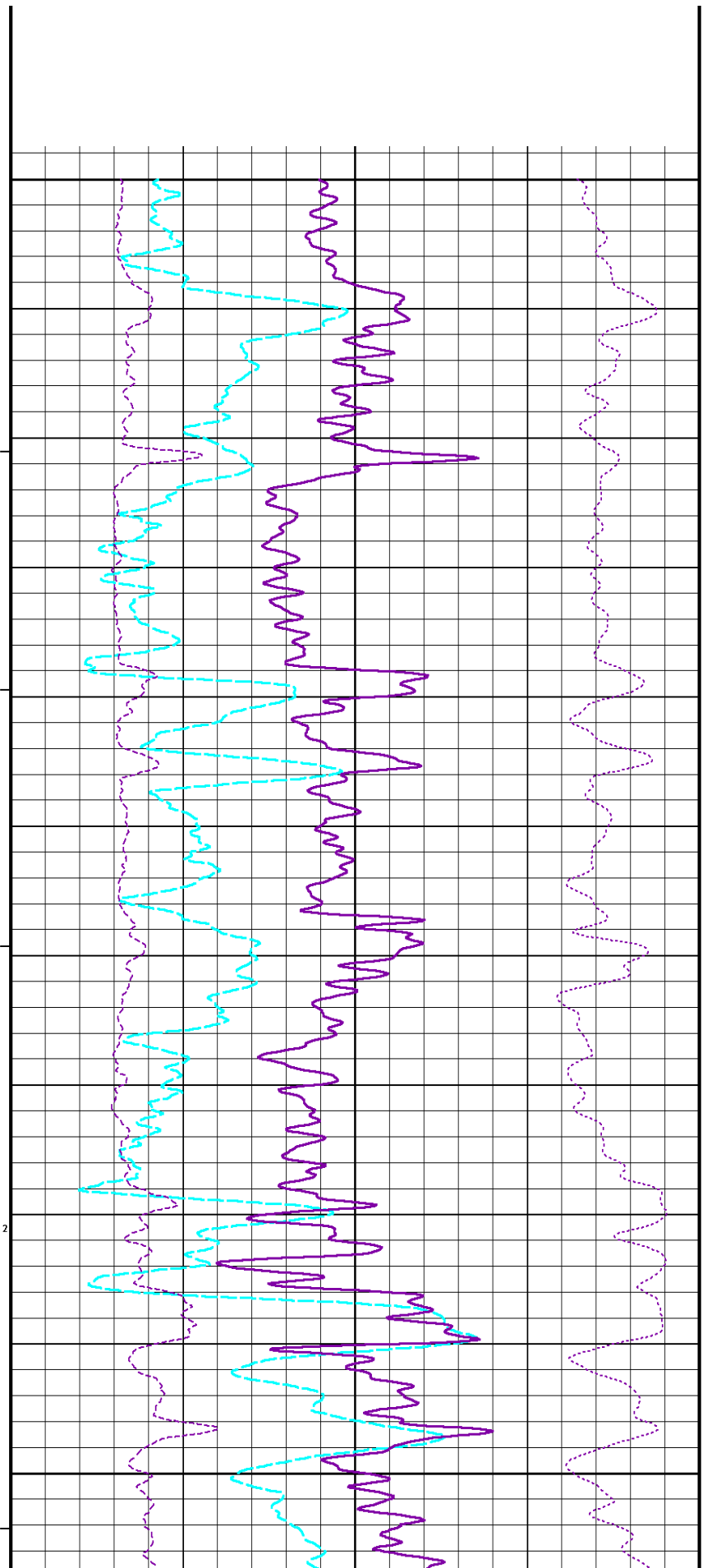
1310

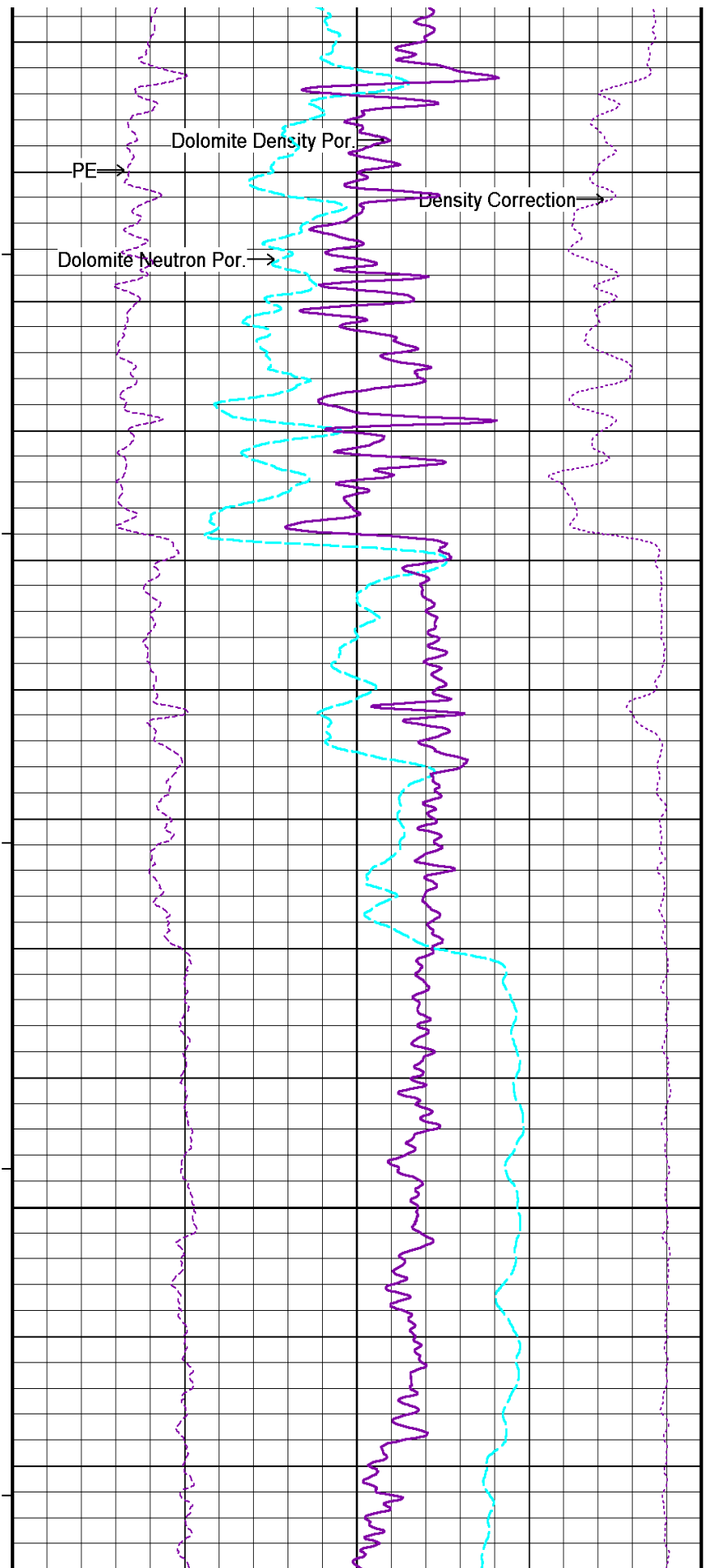
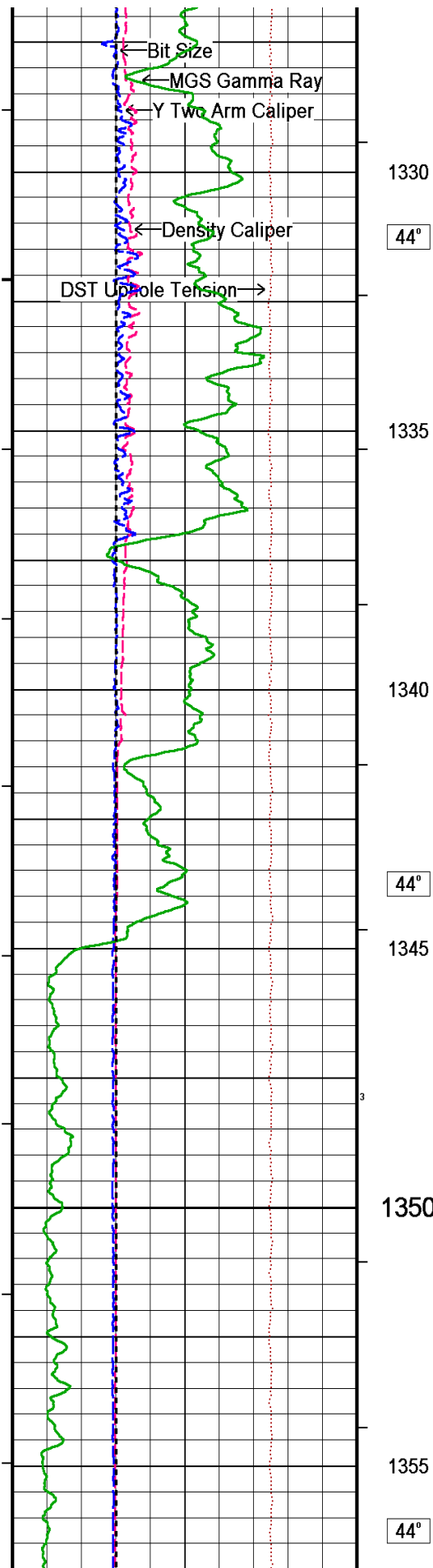
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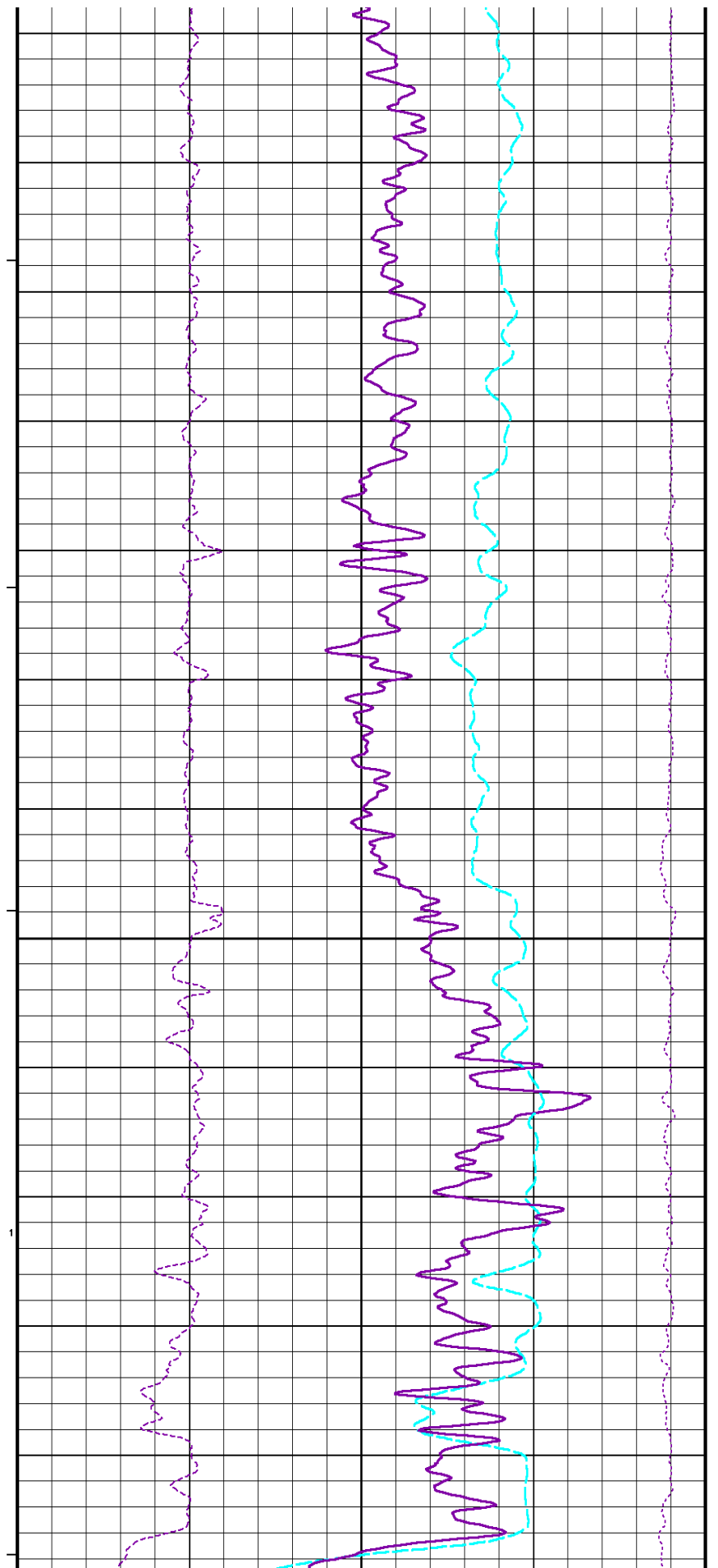
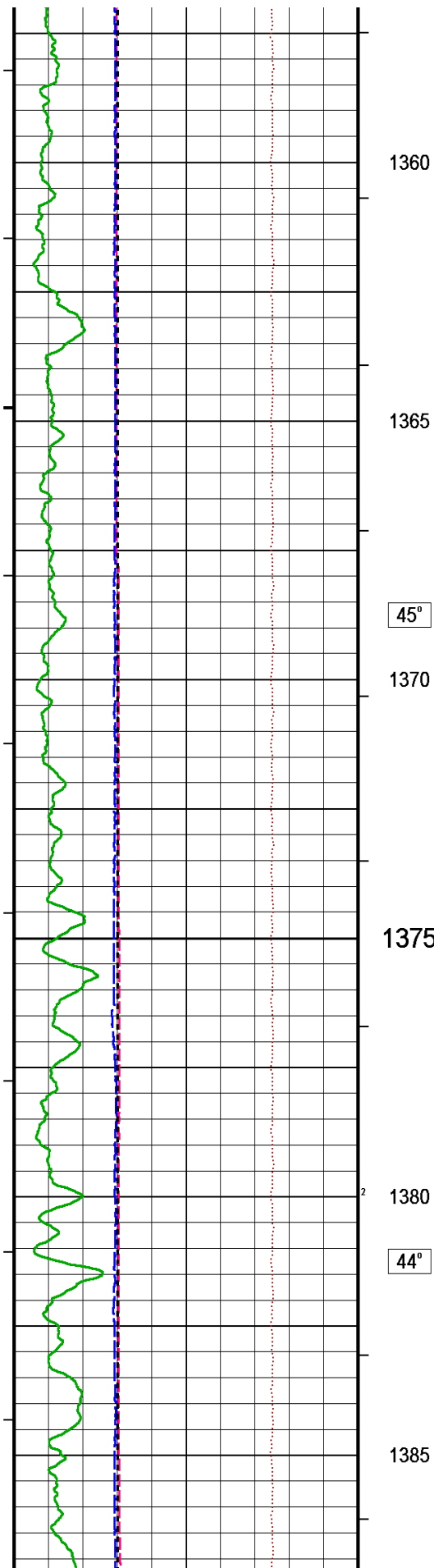
44°

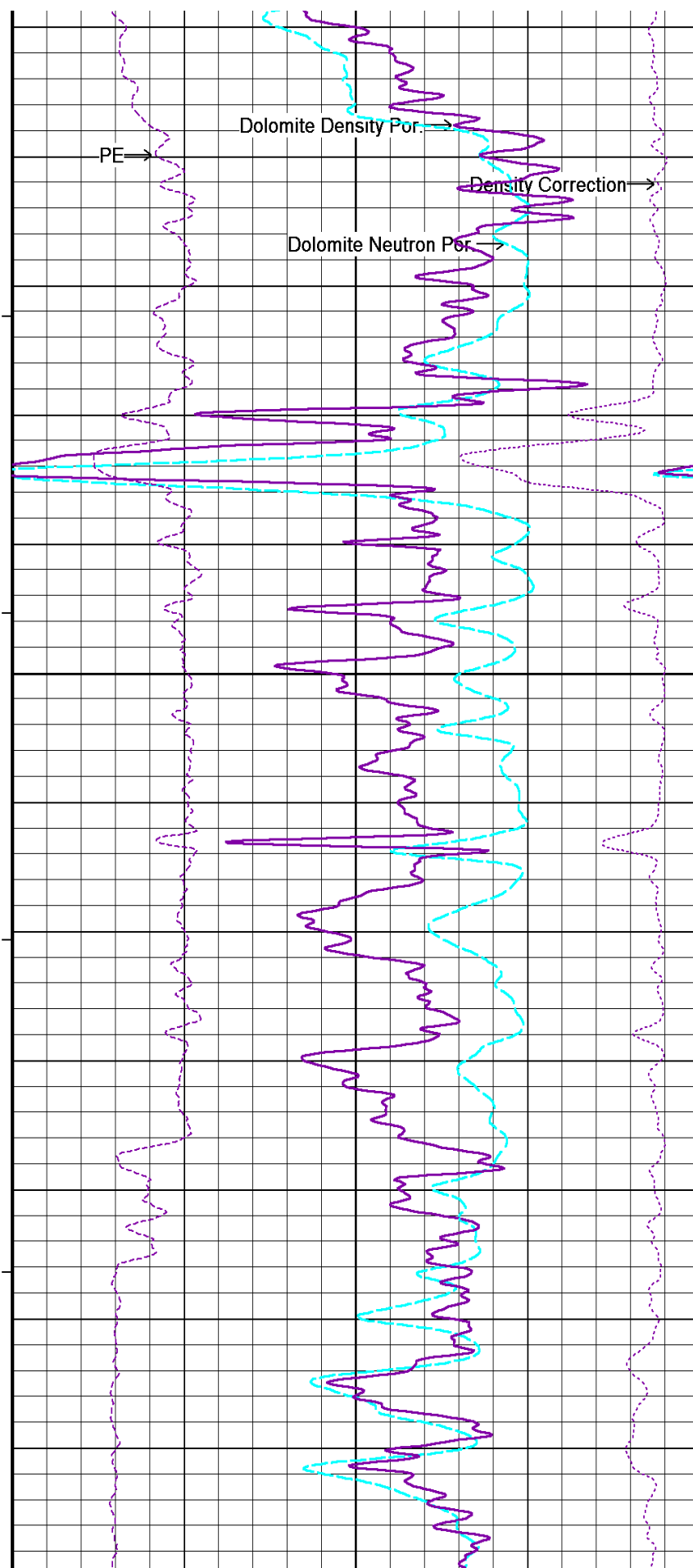
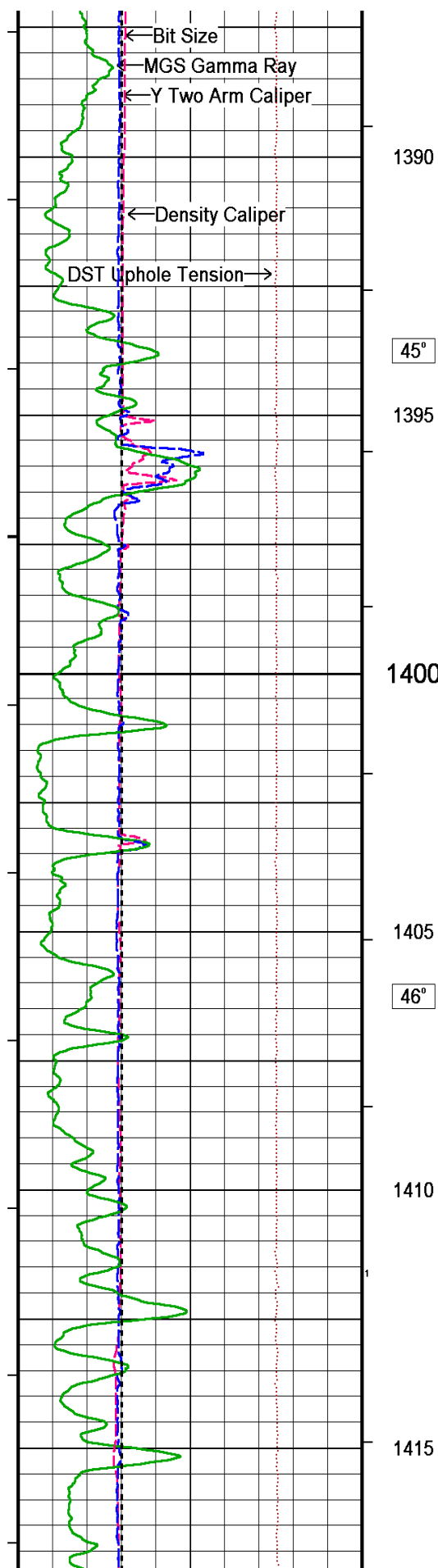
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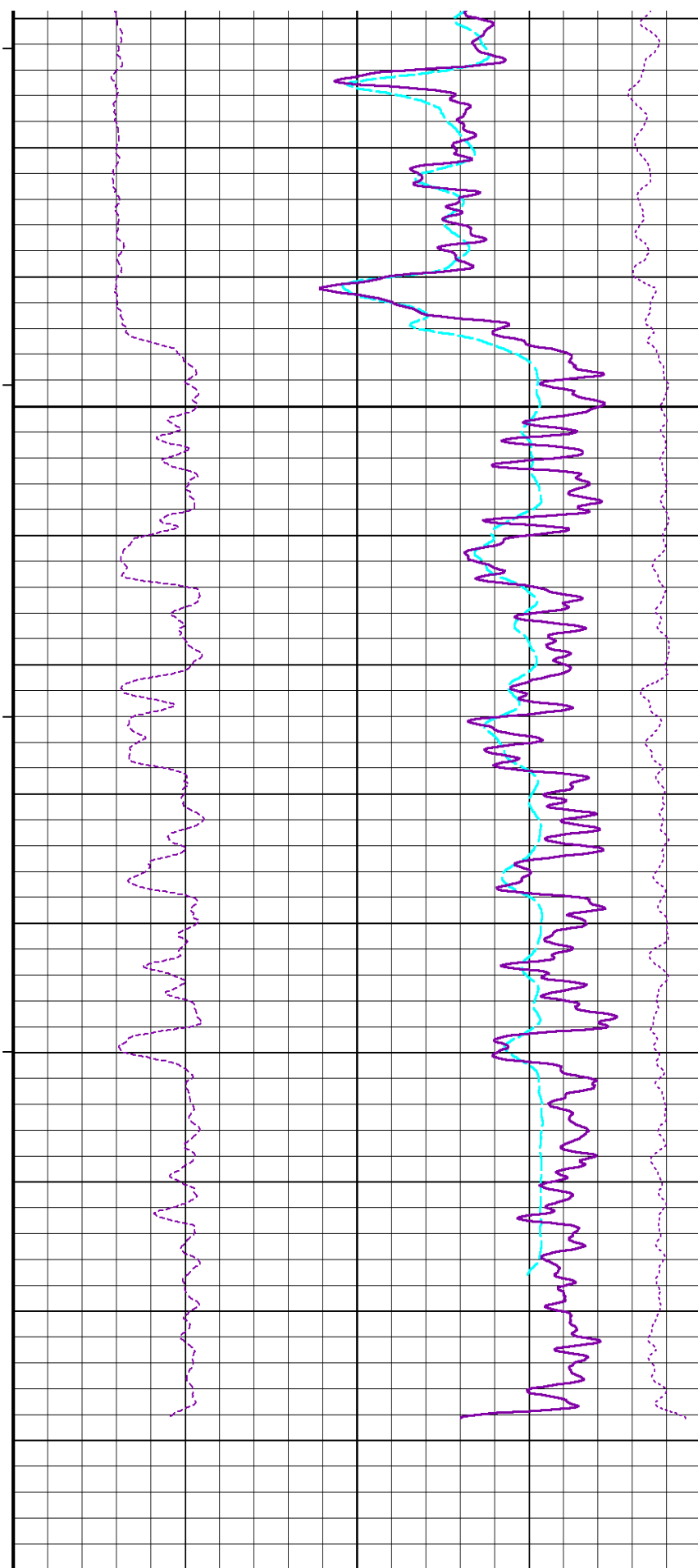
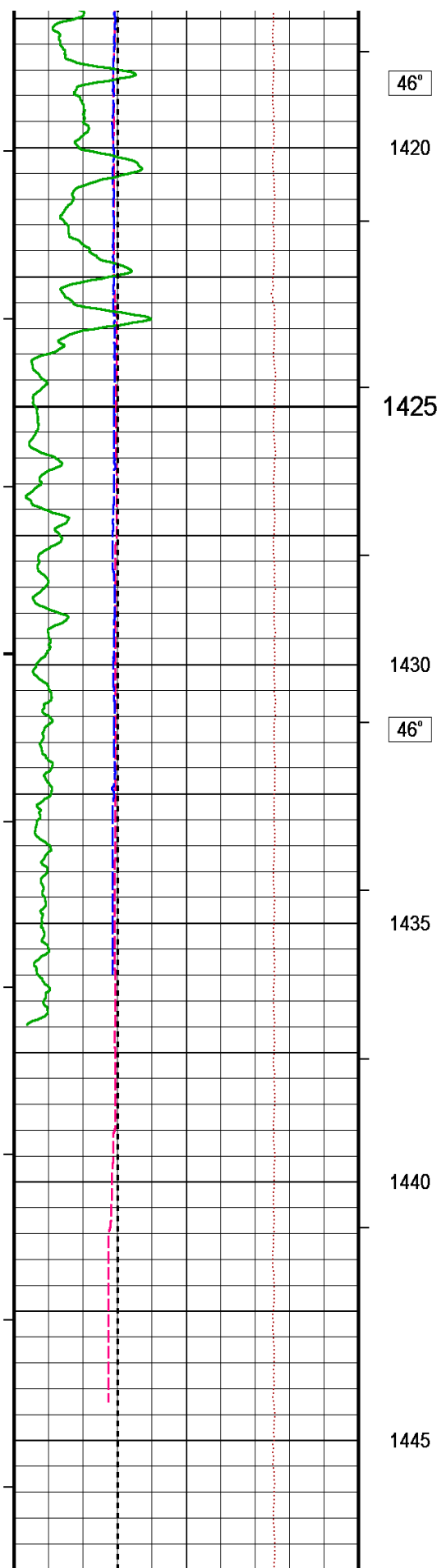
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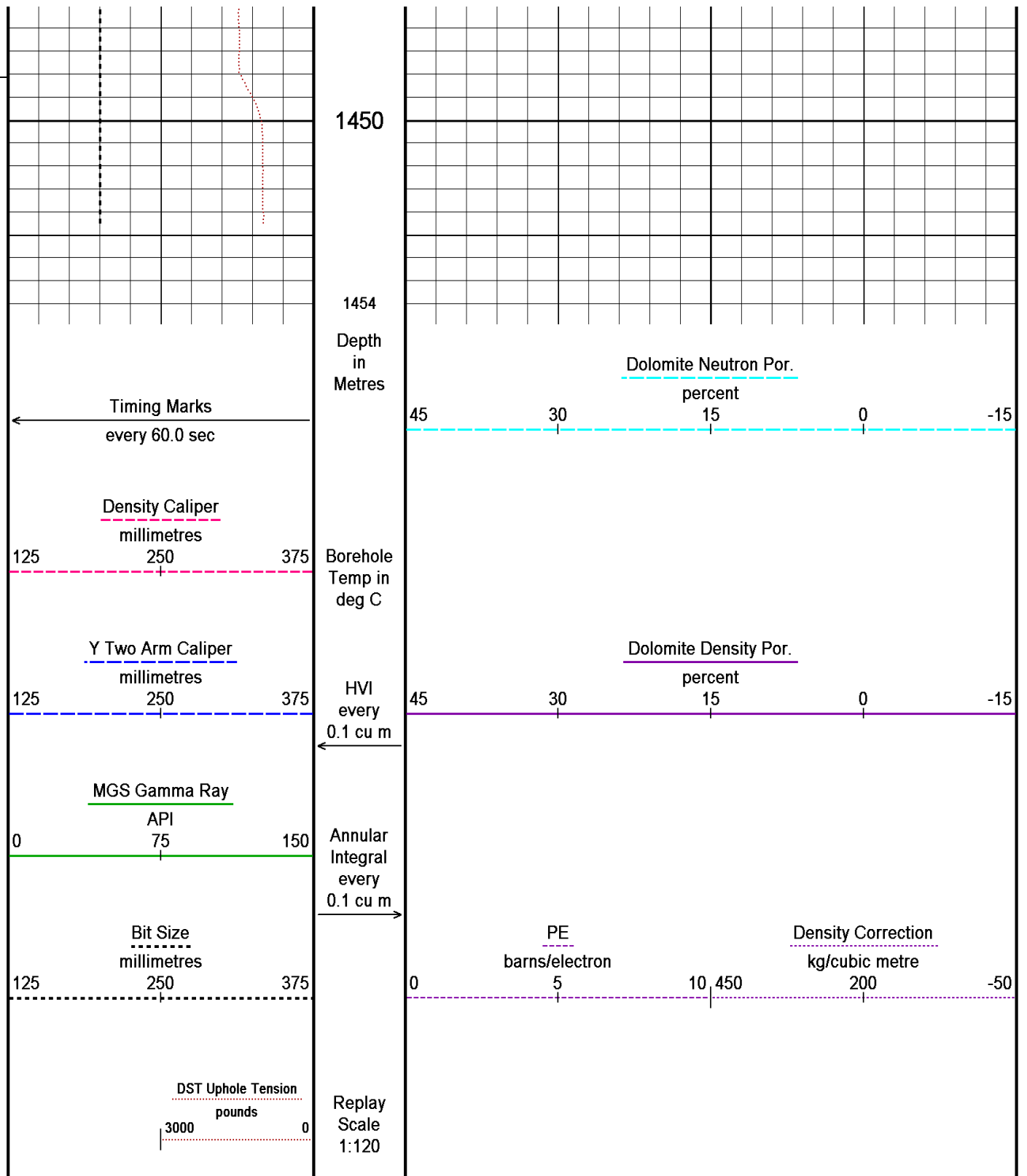












Depth Based Data - Maximum Sampling Increment 2.5cm

Filename: C:\Temp\Weatherford PreView\0\HIGH RES.dta

System Versions: Logged with 7.01.0195 Processed with 8.00.0015 Plotted with 8.01.0091

Plotted on 12-NOV-2007 09:30

Recorded on 15-FEB-2007 07:26

↑ DOLOMITE HIGH RESOLUTION 1:120 ↑

BEFORE SURVEY CALIBRATION

General Constants All 000

Last Edited on 15-FEB-2007,06:48

General Parameters

Mud Resistivity	1.180	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 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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Caliper Calibration MTC 006

Base Calibration on 25-JAN-2007,18:14

Field Calibration on 10-FEB-2007,20:21

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)
208.70	205.70

Gamma Calibration MGS 010

Field Calibration on 7-FEB-2007,09:09

	Measured	Calibrated (API)
Background	48	31
Calibrator (Gross)	1256	825
Calibrator (Net)	1208	794

Gamma Constants MGS 010

Last Edited on 15-FEB-2007,06:48

Gamma Calibrator Number	grcc075	
Mud Density	1060.00	kg/m3
Caliper Source for Processing	Density Caliper	
Tool Position	Centred	
Concentration of KCl	0.00	kppm

Neutron Calibration MDN 144

Base Calibration on 25-JAN-2007 18:05

Field Check on 15-FEB-2007 05:21

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)			
	2094		3091	
Ratio	0.677			
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 8-MAR-2007,10:54 Field Check on	
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	0.0		0.0	
PE Calibration				
Base Calibration	Measured		Calibrated	
	WS	WH	Ratio	Ratio
Background	213	1052		
Reference 1	22151	53000	0.422	0.400
Reference 2	5909	20800	0.288	0.272
Field Check at Base	213.1		1051.7	
Field Check	0.0		0.0	
Density Constants MPD 036			Last Edited on 15-FEB-2007,04:55	
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	1000.00	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	Advanced	
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	0.00	
Caliper Calibration MPD 036		
Base Calibration		Base Calibration on 23-JAN-2007 04:20
		Field Calibration on 7-FEB-2007,11:28
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)
	166.10	166.10

DOWNHOLE EQUIPMENT			C:\Temp\Weatherford PreView\0\REPEAT.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 Focused 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

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

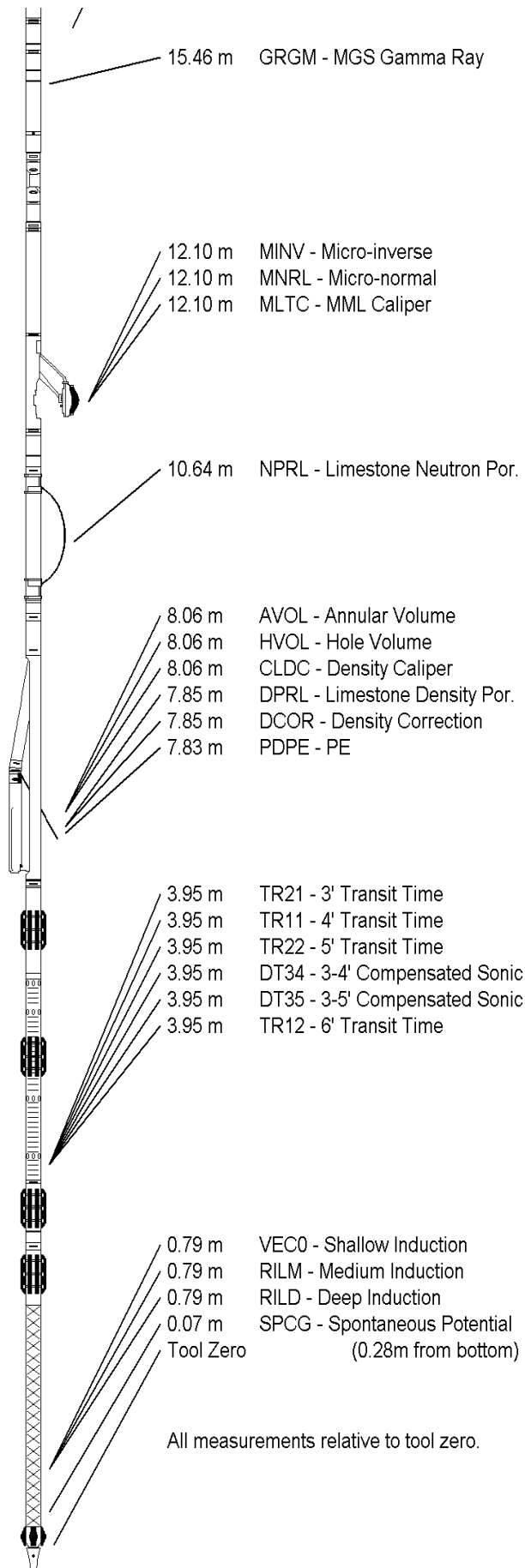
Compact Density/Caliper
MPD 36 Length: 2.92 m Weight: 90.4 lb

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	PARAMOUNT ET AL CAMERON J-04
FIELD	CAMERON HILLS
PROVINCE/COUNTY	NORTH WEST TERRITORIES
COUNTRY/STATE	CANADA

Elevation Kelly Bushing	769.20	metres	First Reading	1441.60	metre
Elevation Drill Floor		metres	Depth Driller	1449.00	metres
Elevation Ground Level	765.20	metres	Depth Logger	1449.50	metres



Weatherford®

PHOTO DENSITY
DUAL SPACED NEUTRON