



Weatherford[®]

**CML IMPULSE SHUTTLE
COMPACT PHOTO DENSITY
COMPENSATED NEUTRON**

COMPANY SANDRIDGE ENERGY, INC.,
WELL POWERS 1-2H
FIELD FORD
PROVINCE/COUNTY FORD
COUNTRY/STATE U.S.A. / KANSAS
LOCATION 350' FNL & 250' FEL

SEC 2 TWP 27S RGE 22W Other Services
API Number 15-057-20800 MAI
Permit Number CMI

Permanent Datum G.L., Elevation 2355 feet
Log Measured From KB
Drilling Measured From K.B. @ 18 FEET
Date 15-JUL-2012 Elevations: KB 2373.00
DF 2372.00
GL 2355.00

Run Number	ONE	
Depth Driller	9182.00	feet
Depth Logger	9182.00	feet
First Reading	9075.00	feet
Last Reading	5525.00	feet
Casing Driller	5525.00	feet
Casing Logger	5525.00	feet
Bit Size	6.125	inches
Hole Fluid Type	WBM	
Density / Viscosity	9.30 g/c3	32.00 CP
PH / Fluid Loss	9.00	60.00 ml/30Min
Sample Source	FLOWLINE	
Rm @ Measured Temp	1.56 @ 82.0	ohm-m
Rmf @ Measured Temp	1.25 @ 82.0	ohm-m
Rmc @ Measured Temp	1.872 @ 82.0	ohm-m
Source Rmf / Rmc	CALC	CALC
Rm @ BHT	0.98 @130.0	ohm-m
Time Since Circulation	1 HOUR	
Max Recorded Temp	130.00	deg F
Equipment Name	COMPACT	
Equipment / Base	18077	OKC
Recorded By	STEVEN TOTTEY	
Witnessed By	JAY CHAPMAN	
S.O. / AFE	3536722	

BOREHOLE RECORD

Last Edited: 16-JUL-2012 07:59

Bit Size inches	Depth From feet	Depth To feet
6.125	5525.00	9182.00

CASING RECORD

Type	Size inches	Depth From feet	Shoe Depth feet	Weight pounds/ft
INTER	7.000	0.00	5525.00	17.00

REMARKS

TOOLS RAN: 200V SRT-69,MBS-115,SKJ-207,MMSE158,SHA-167,MTI-061,
MGS-136,MCL-069,SKJ-479,SHA-431,MIS-606,MDN-391,MPD-394,MIS-275,SHA-434,SKJ-478,MISB 336, MIE-233,MISB-336,MAI-392 RAN IN
COMBINATION

HARDWARE: MAI: MIS-B 0.5" STANDOFF USED ABOVE MAI, ISA 0.5" STANDOFF USED BELOW MAI.
| MDN: MIS-A DOUBLE BOWSPRING USED ABOVE MDN.
| MPD: 4INCH PROFILE PLATE USED, MIS-A SINGLE BOWSPRING USED BELOW MPD

2.71 G/CC DENSITY MATRIX USED TO CALCULATE POROSITY
ALL INTERVALS LOGGED AND SCALED PER CUSTOMER'S REQUEST.

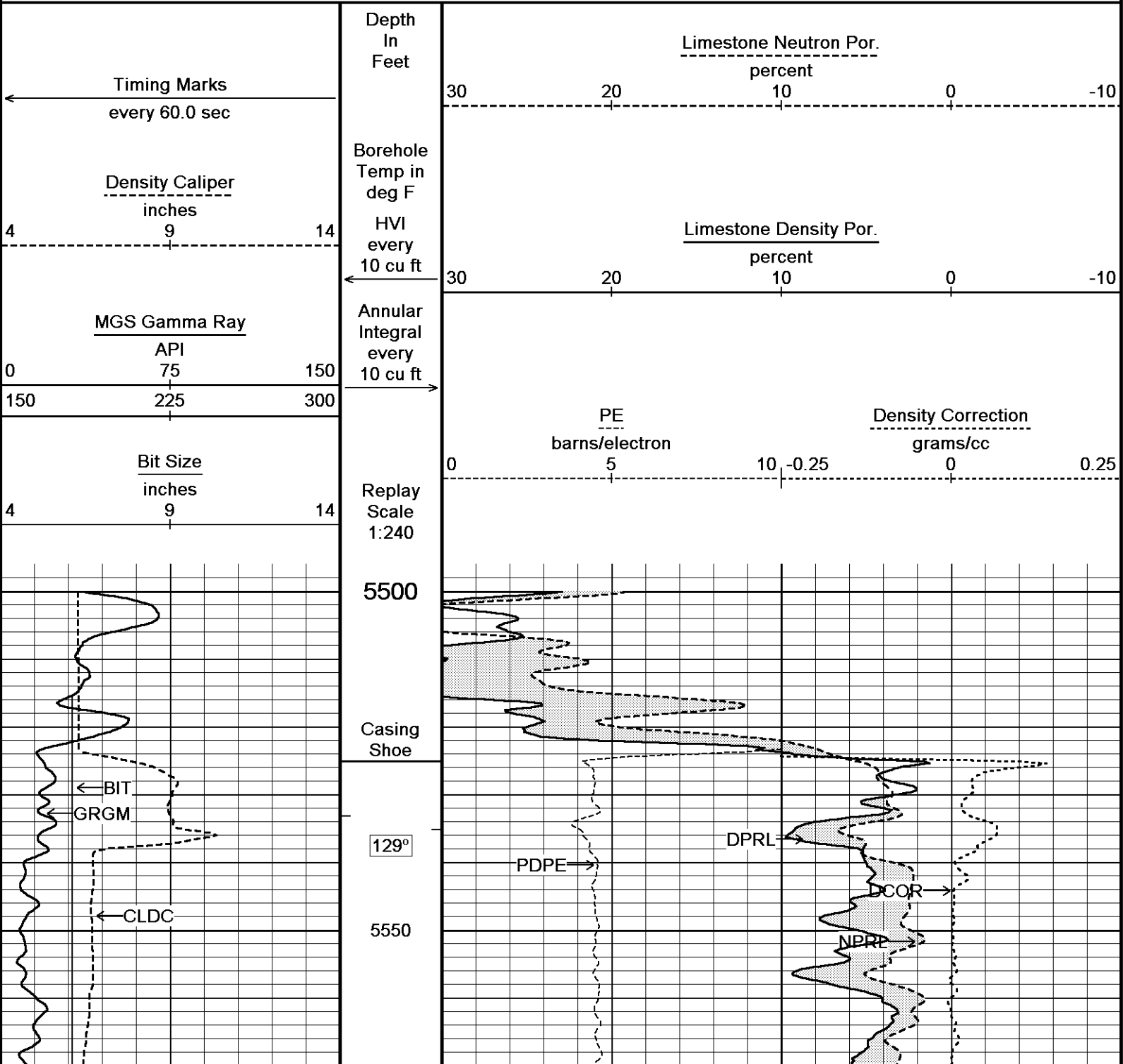
DRILL PIPE DEPTH DURING DEPLOYMENT: 9032
LOGGING TOOL DEPTH AFTER DEPLOYMENT: 9137

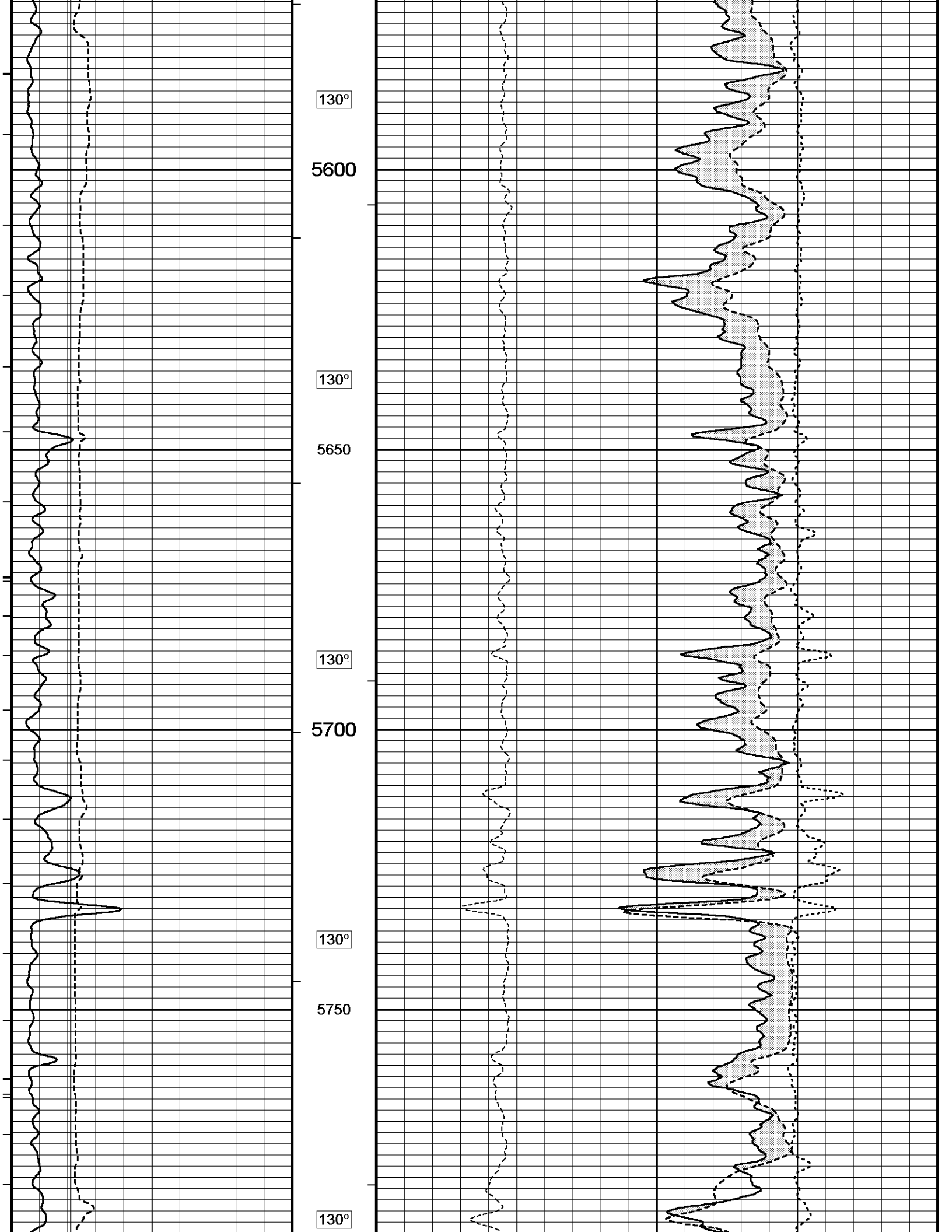
ANNULAR HOLE VOLUME CALCULATED USING WITH 4.5 INCH PRODUCTION CASING

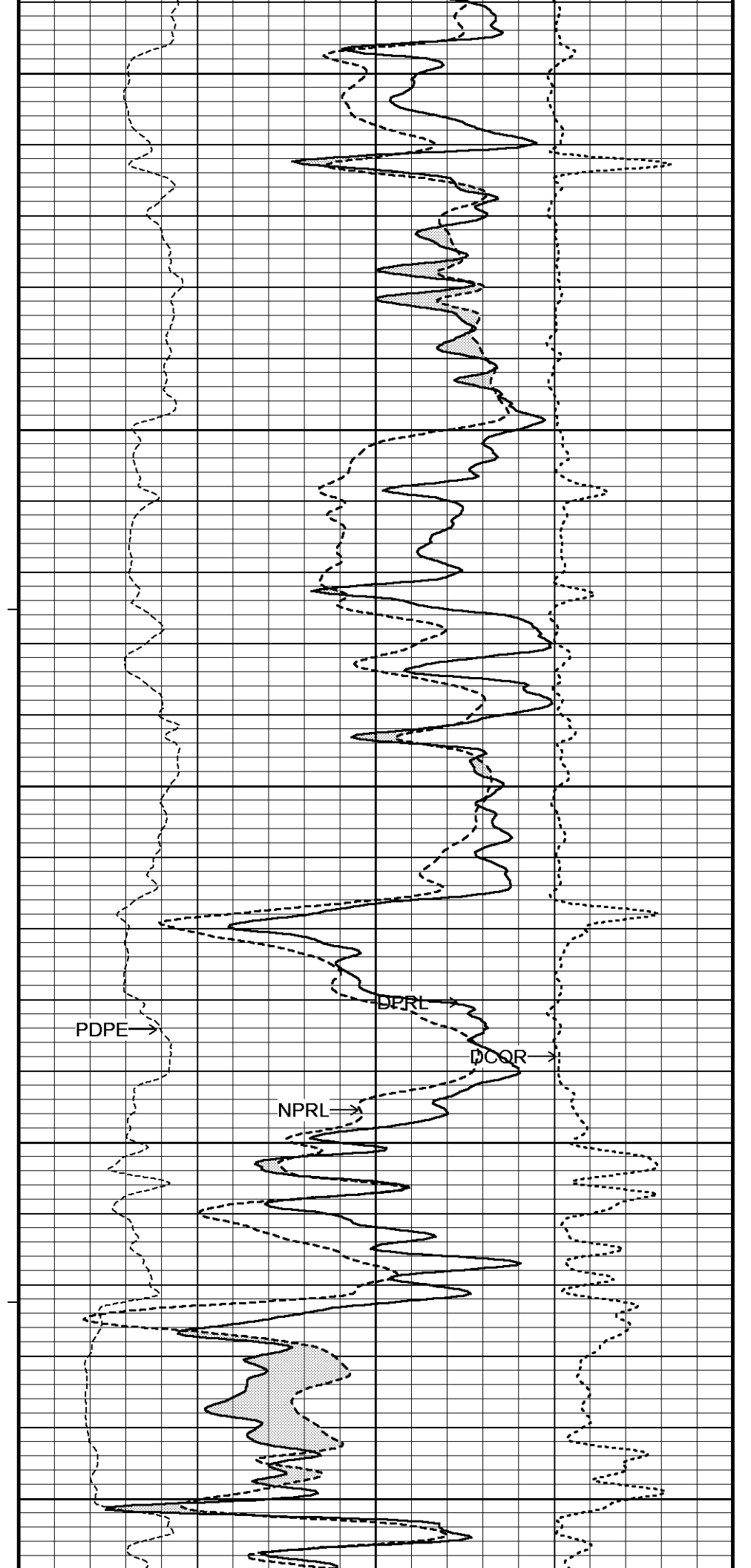
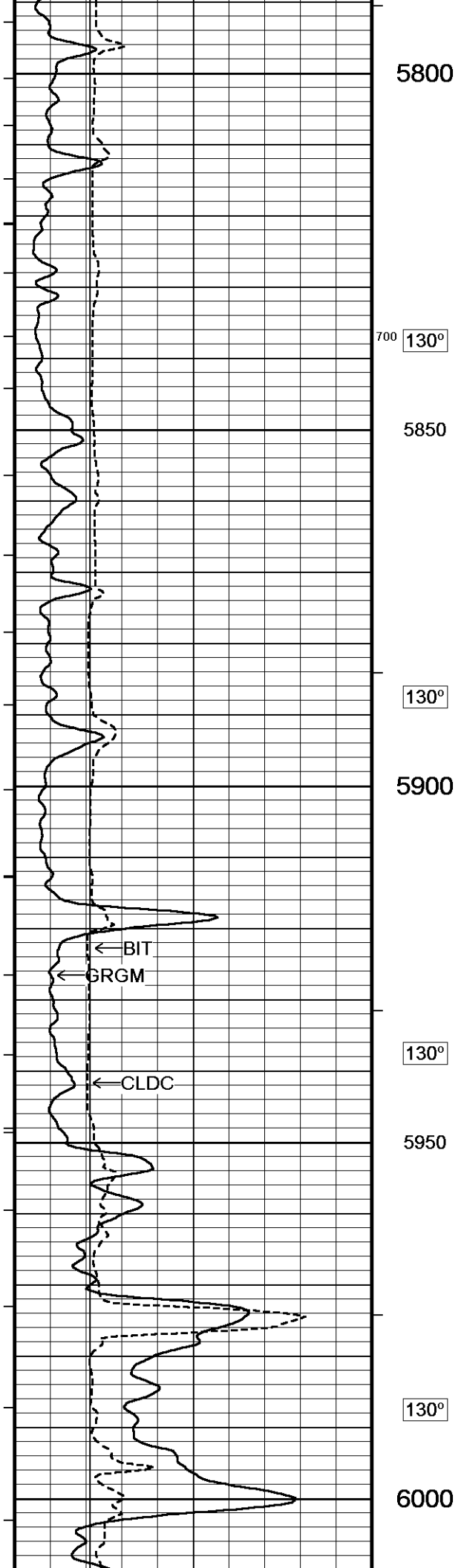
All interpretations are opinions based on inferences from electrical or other measurements and we cannot, and do not, guarantee the accuracy or correctness of any interpretations, and we shall not, except in the case of gross or wilful negligence on our part, be liable or responsible for any loss, costs,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

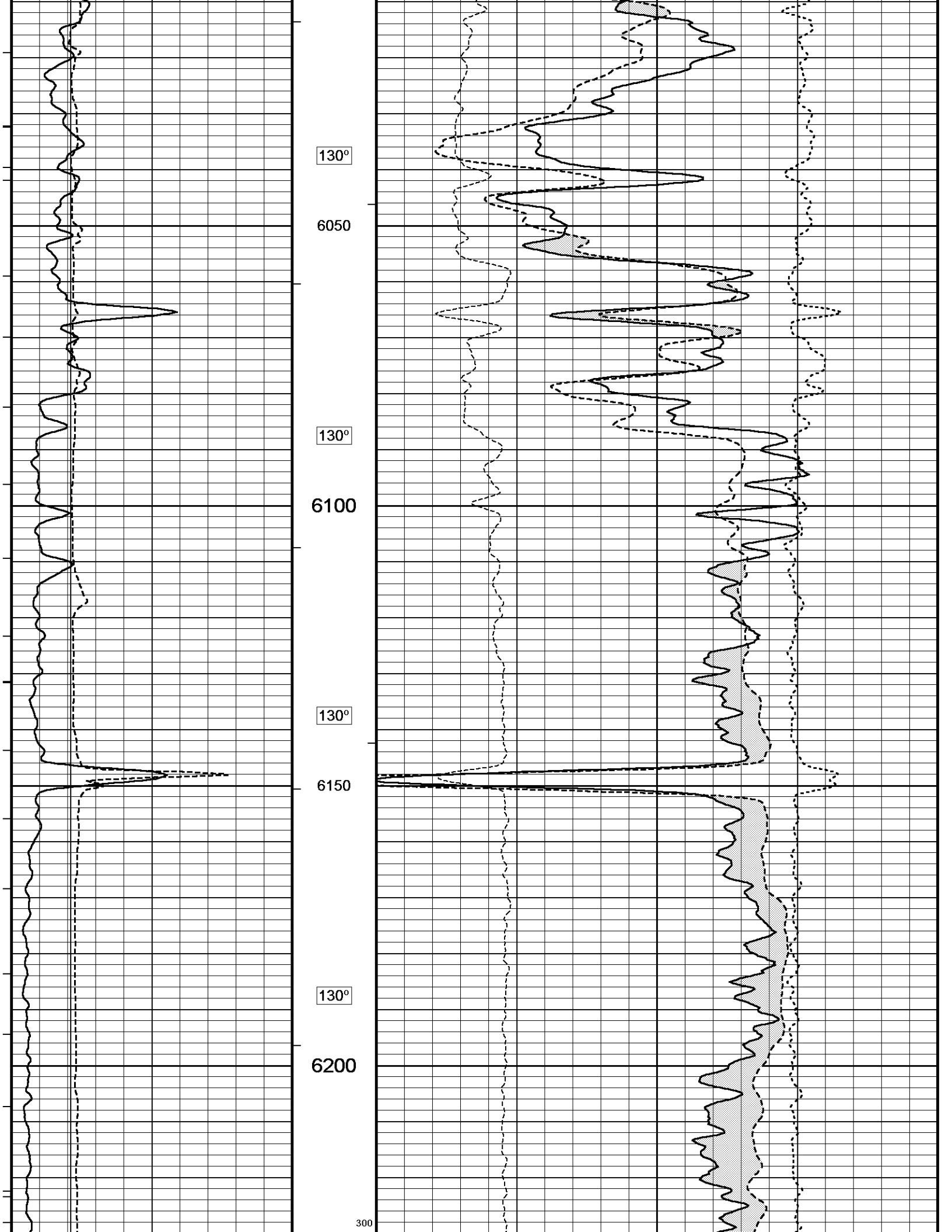
5 INCH MAIN LOG

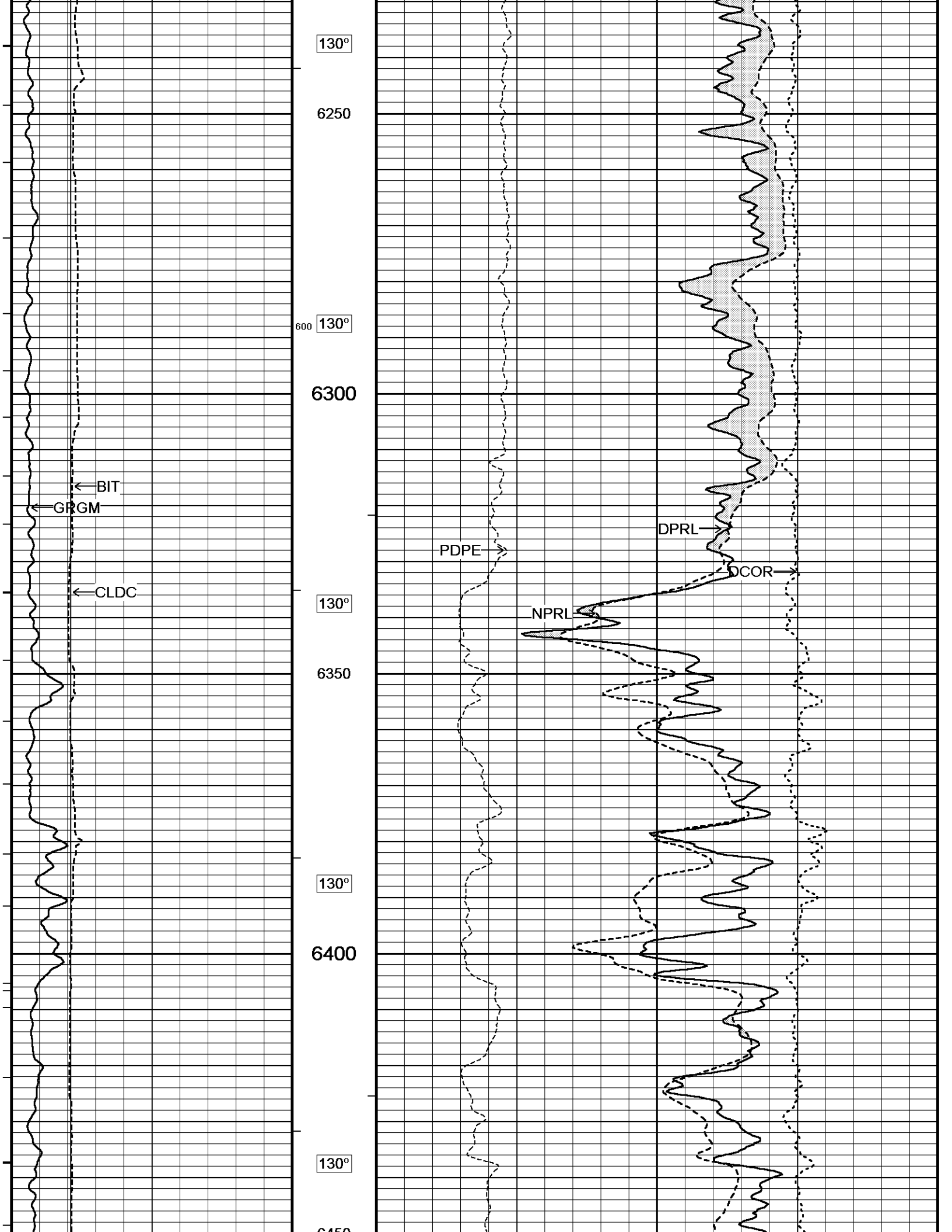
Depth Based Data - Maximum Sampling Increment 10.0cm Plotted on 16-JUL-2012 09:32
 Filename: C:\Data\SANDRIDGE POWERS 1-2H\POWERS 1-2H RTAP.dta Recorded on 16-JUL-2012 07:45
 System Versions: Processed with 13.02.6600 Plotted with 13.02.6600

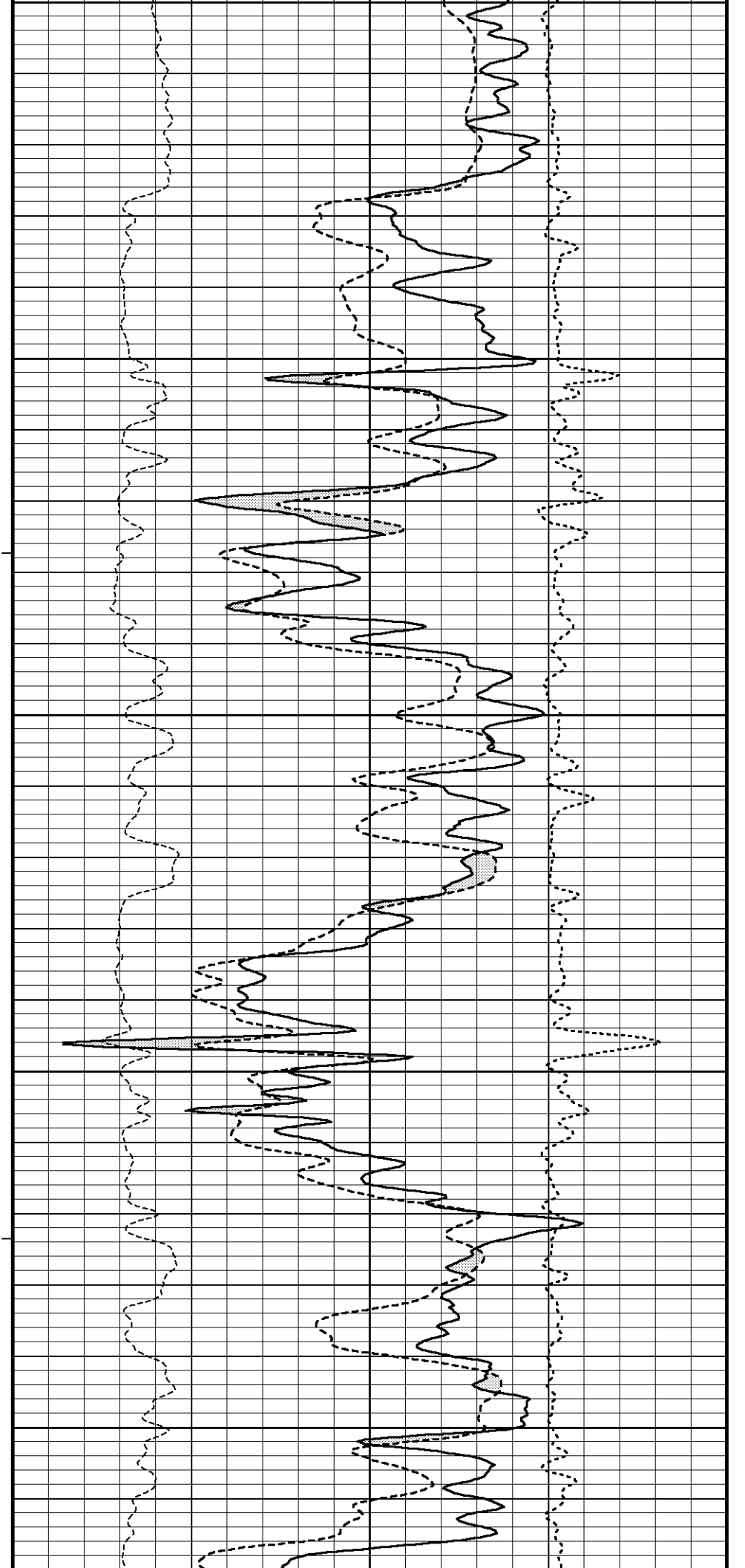
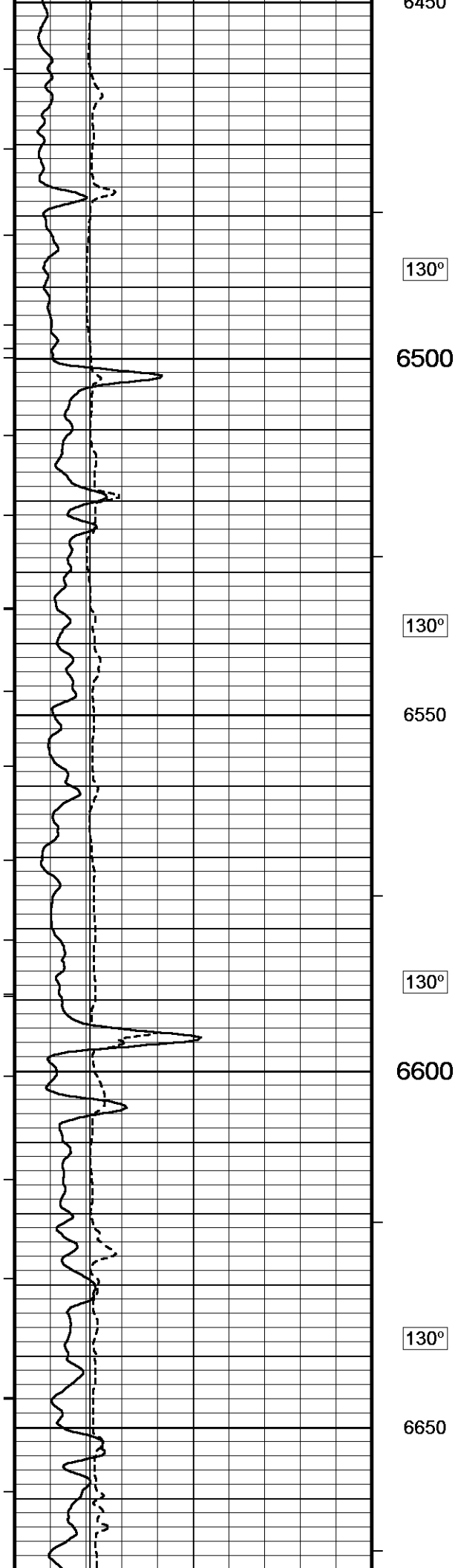


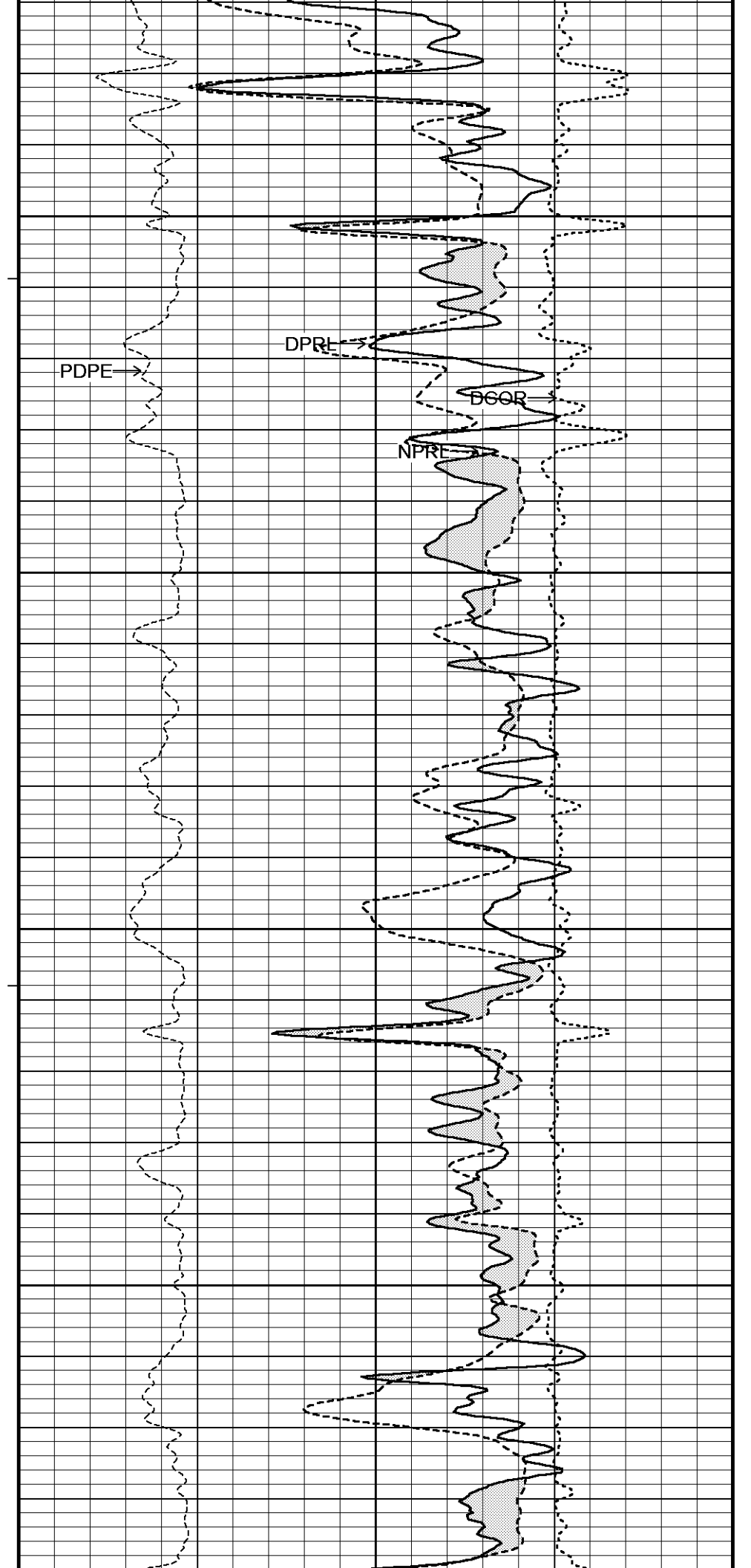
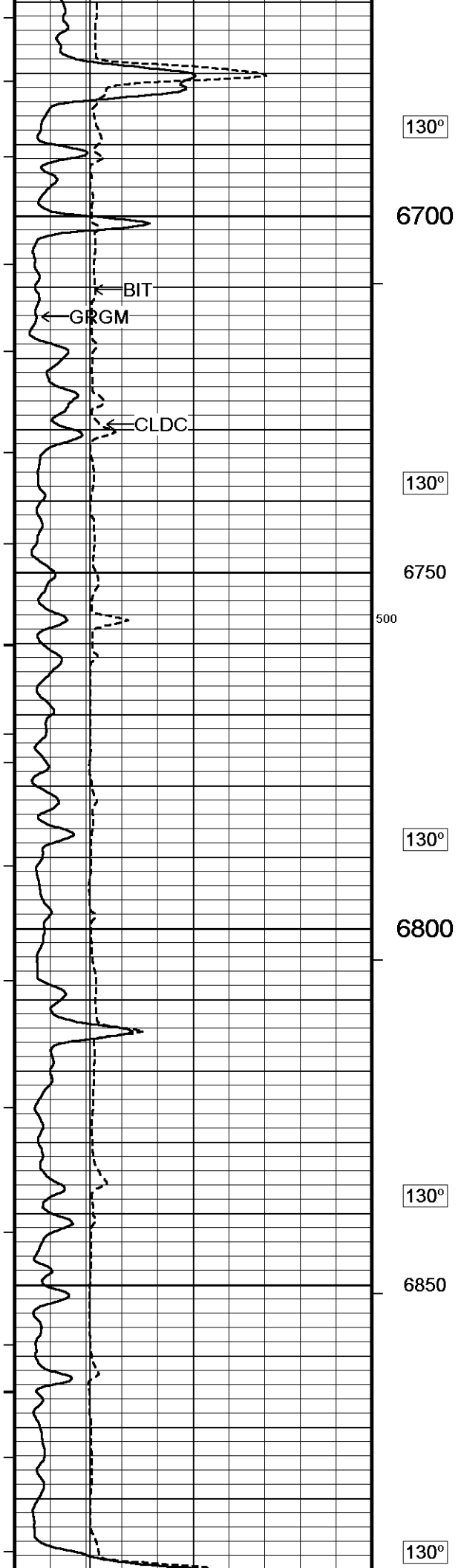


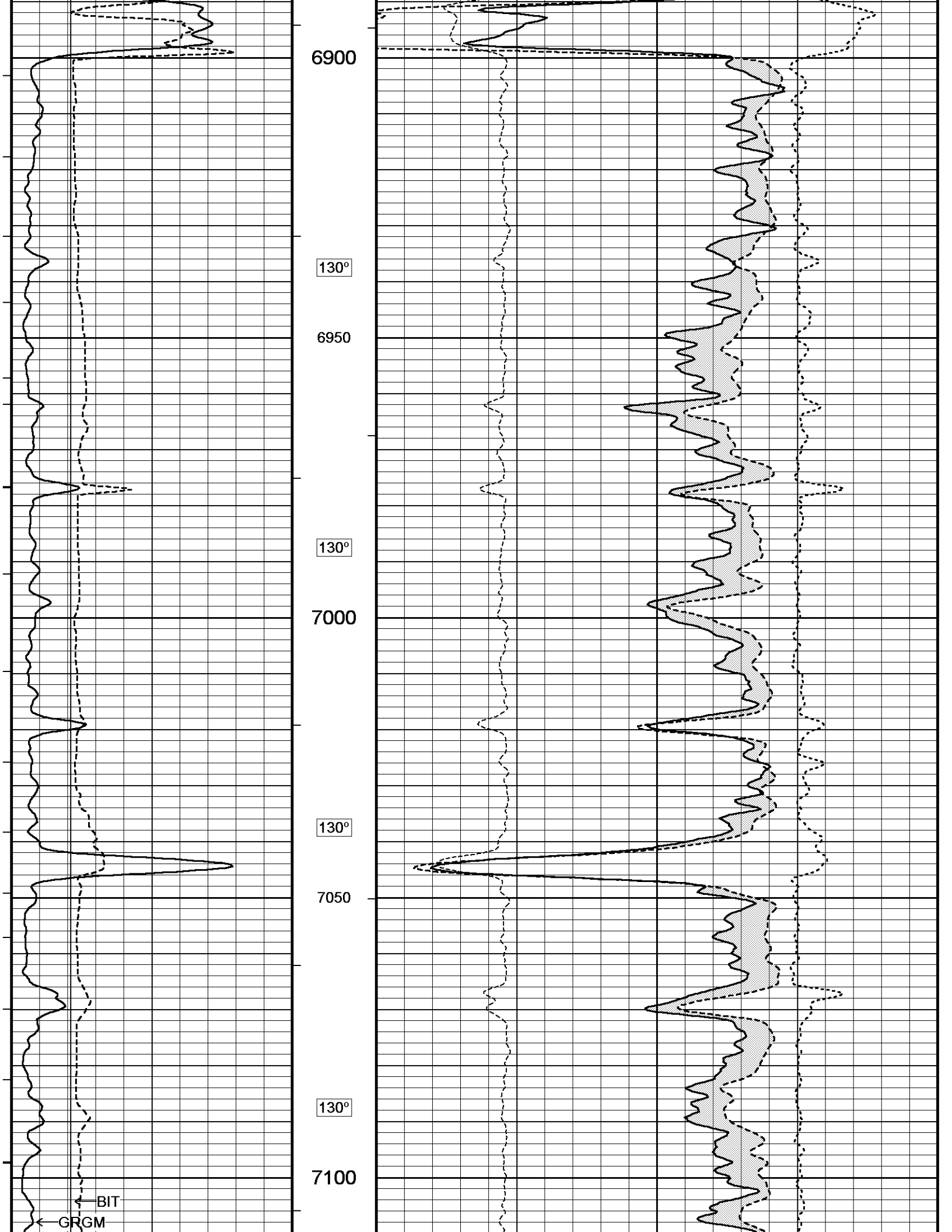


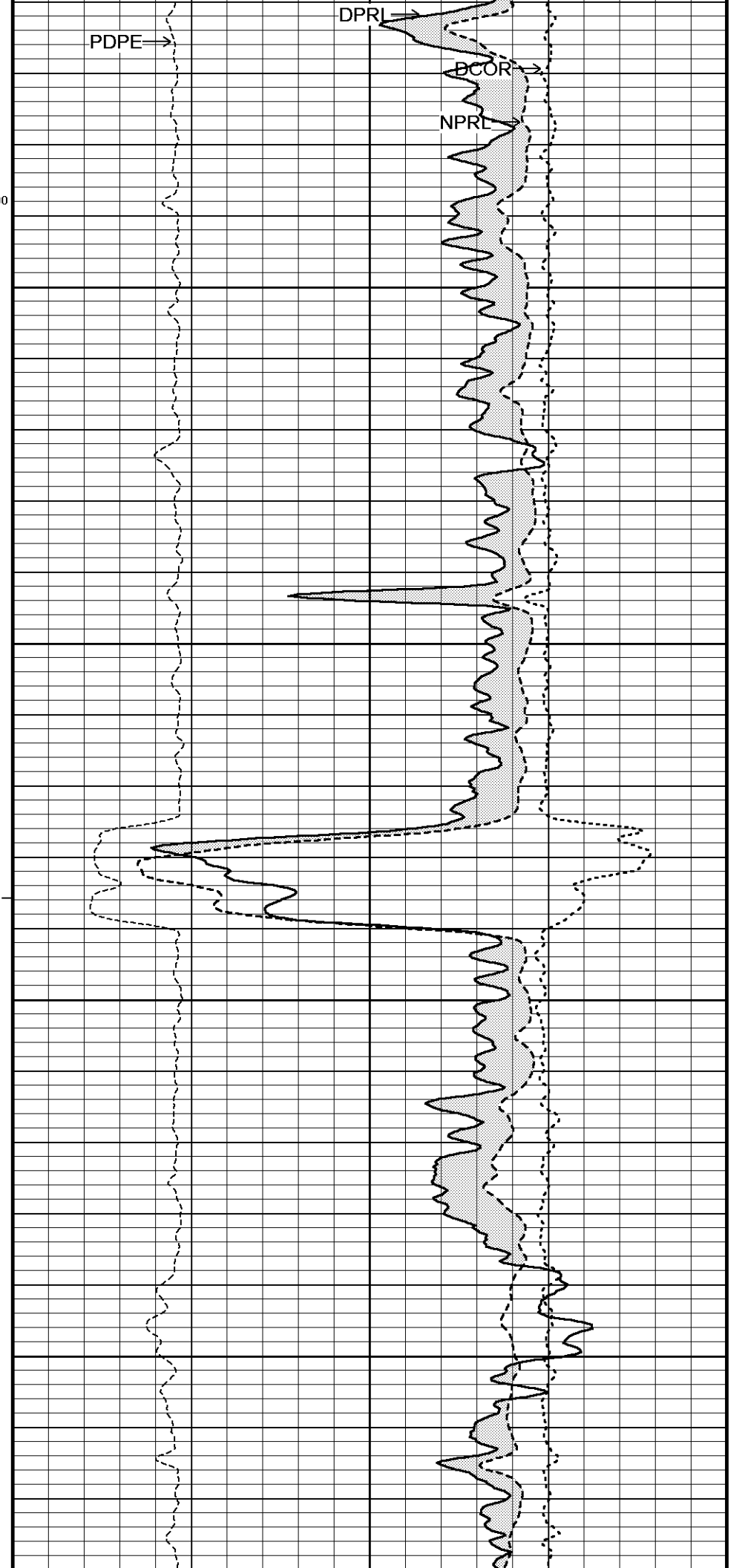
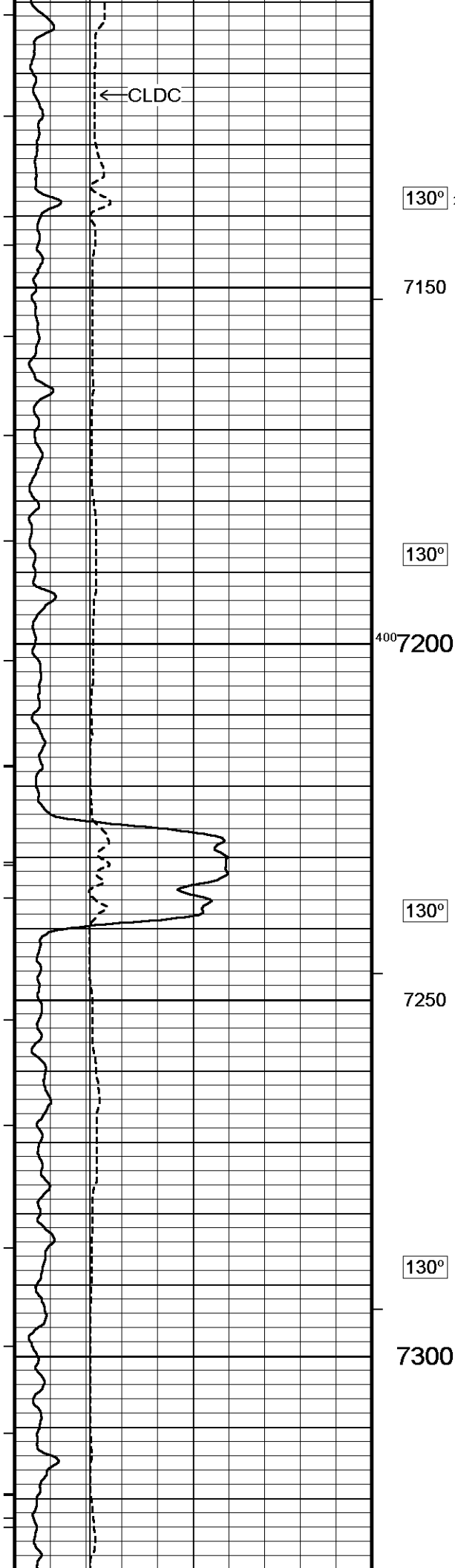


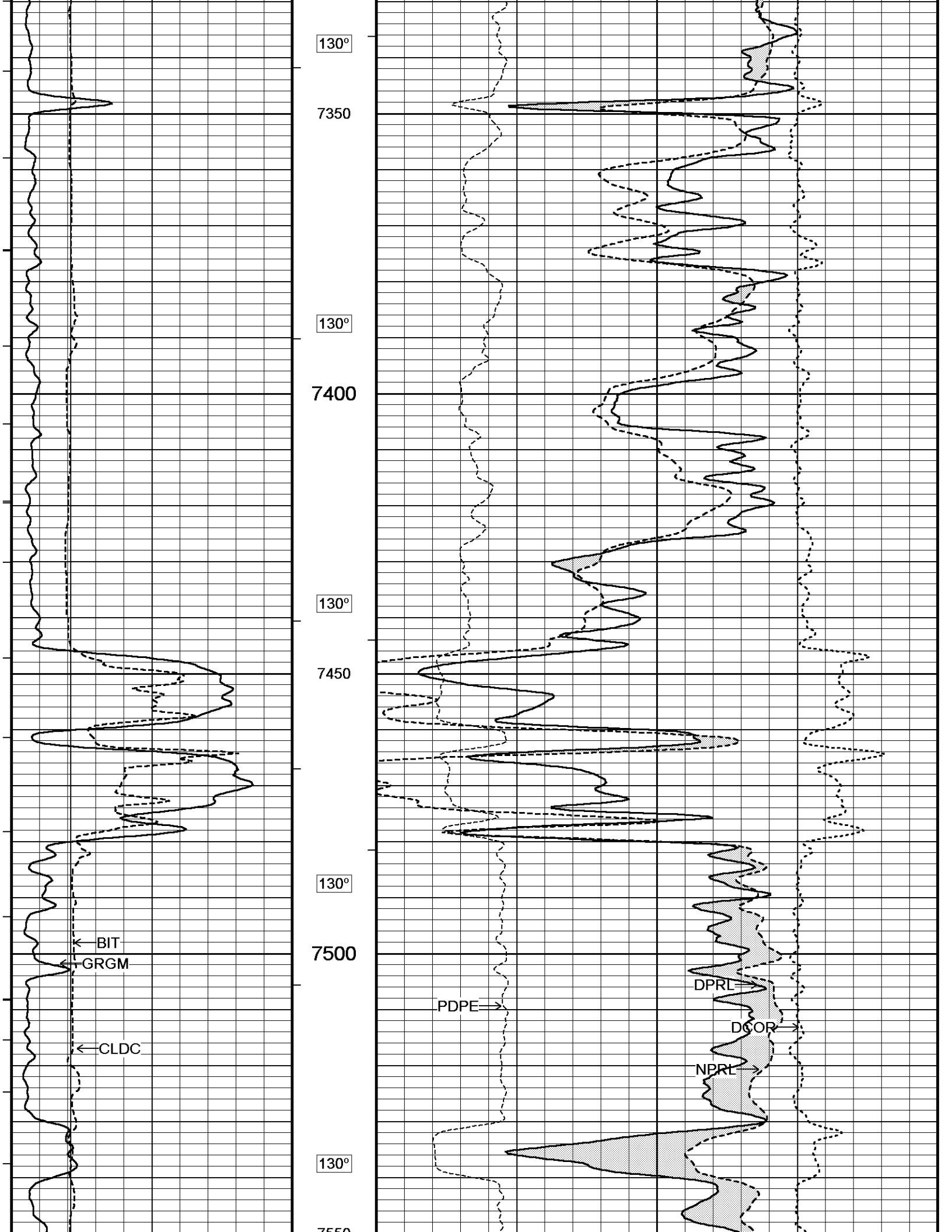


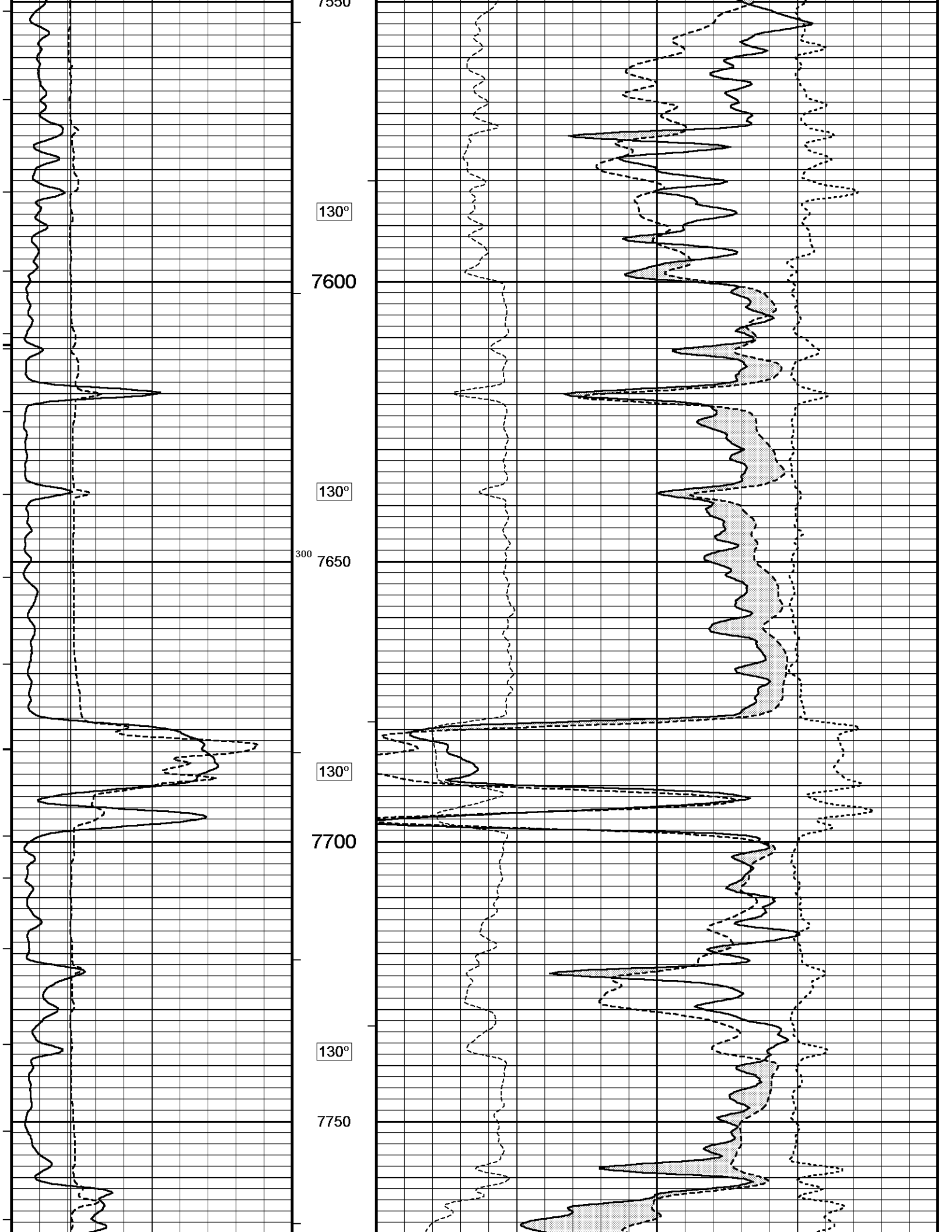


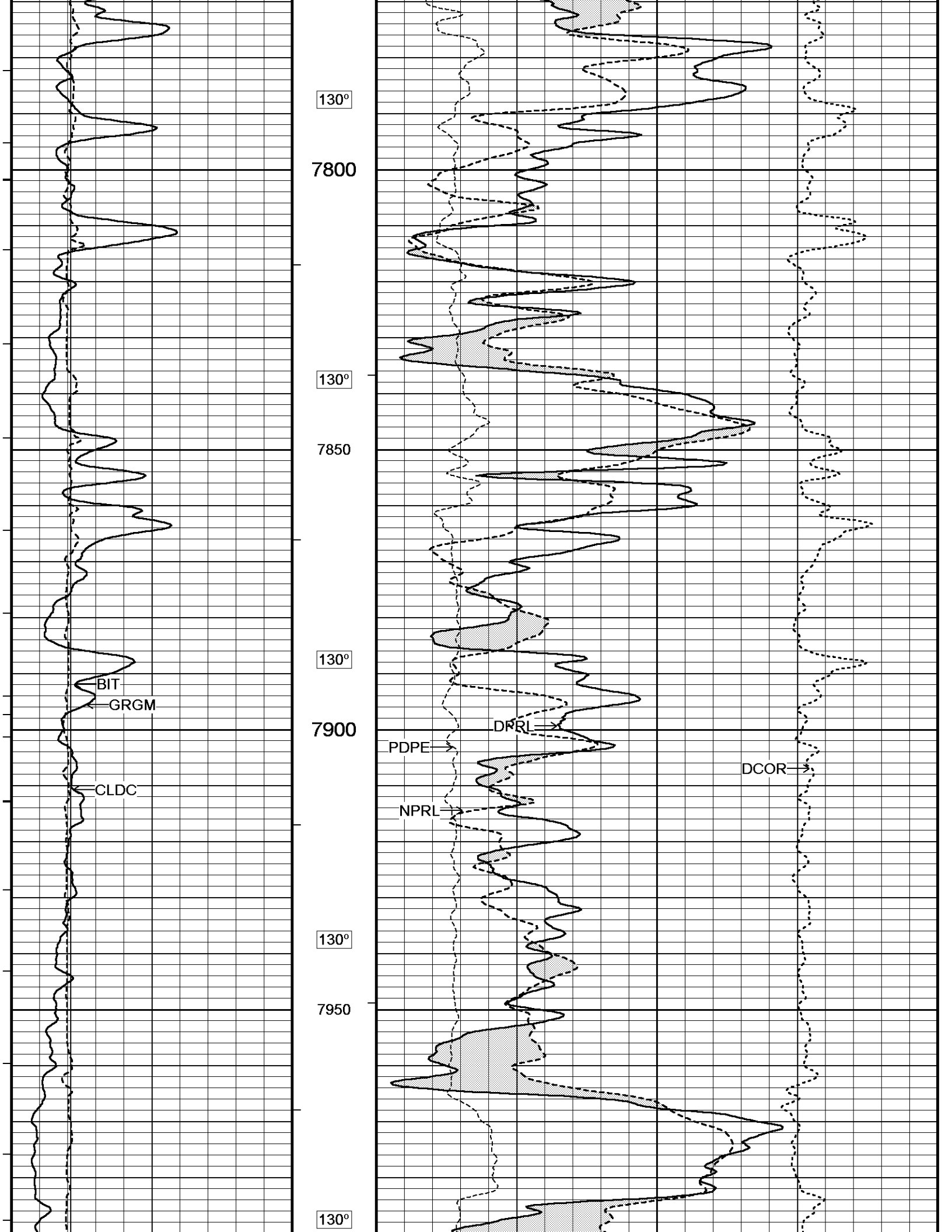


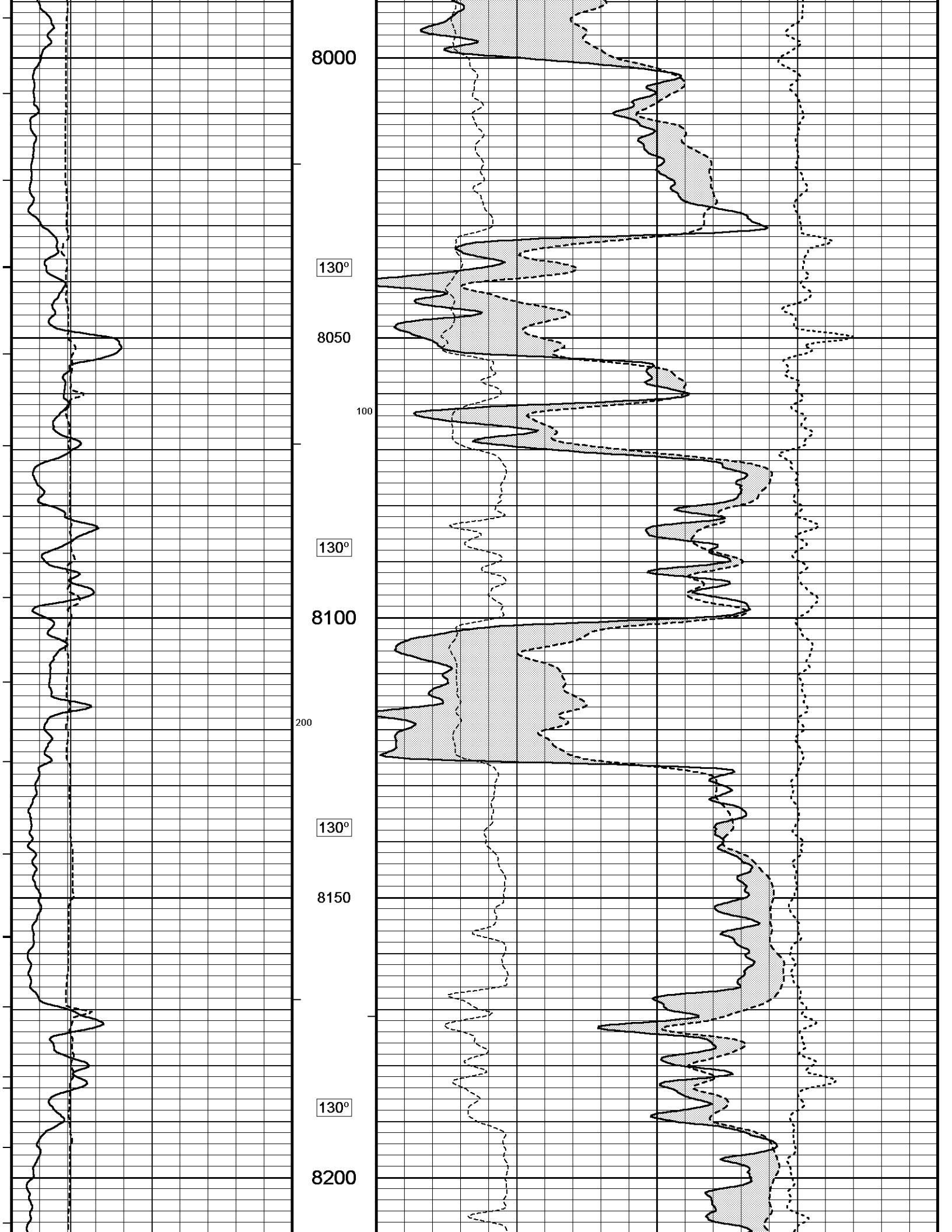


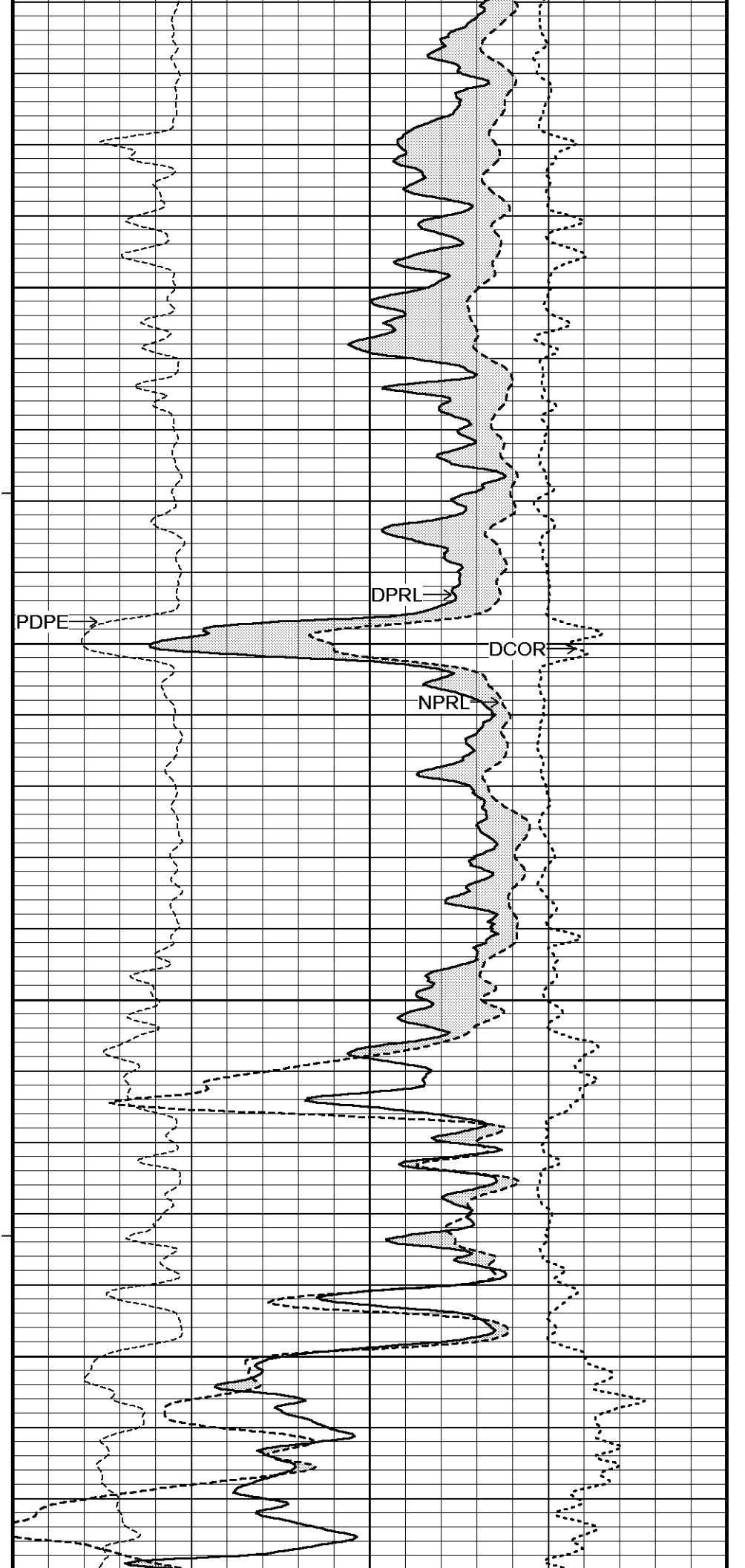
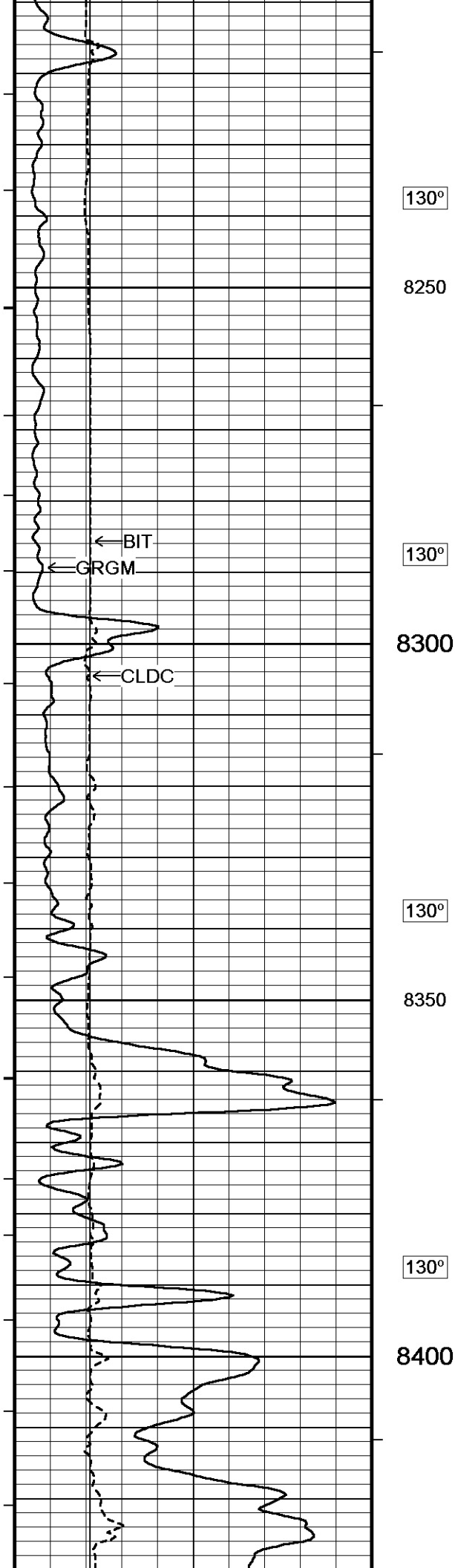


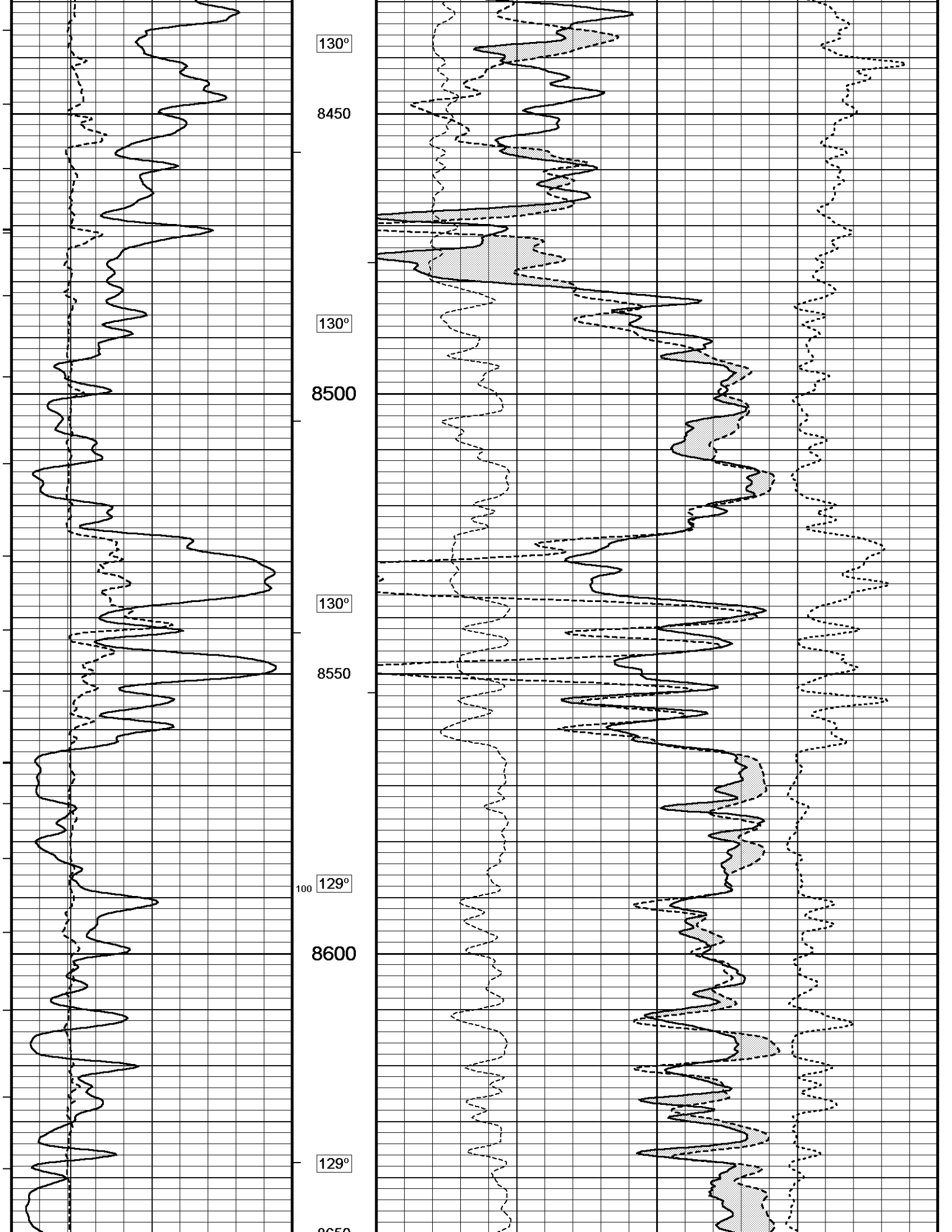


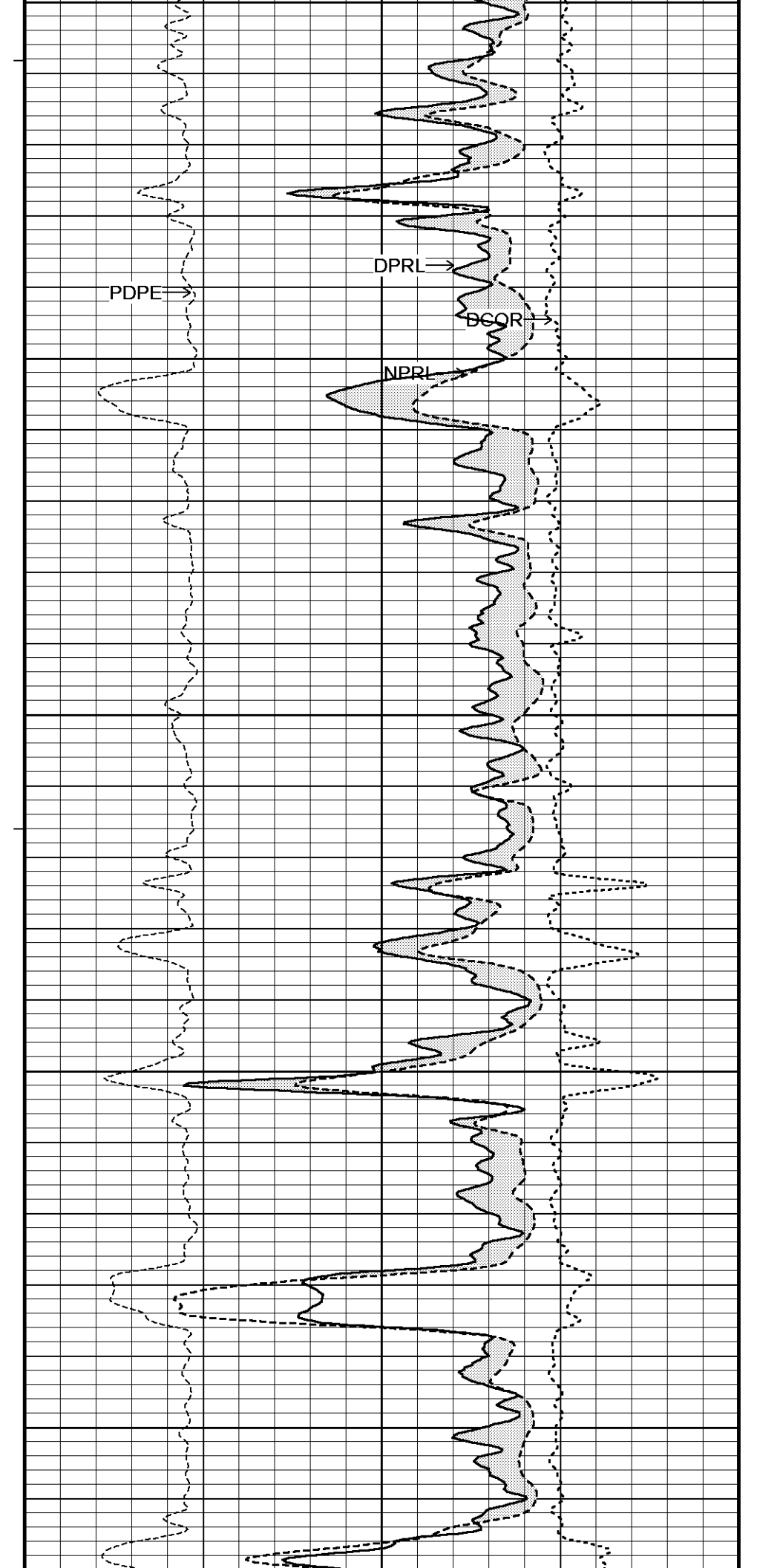
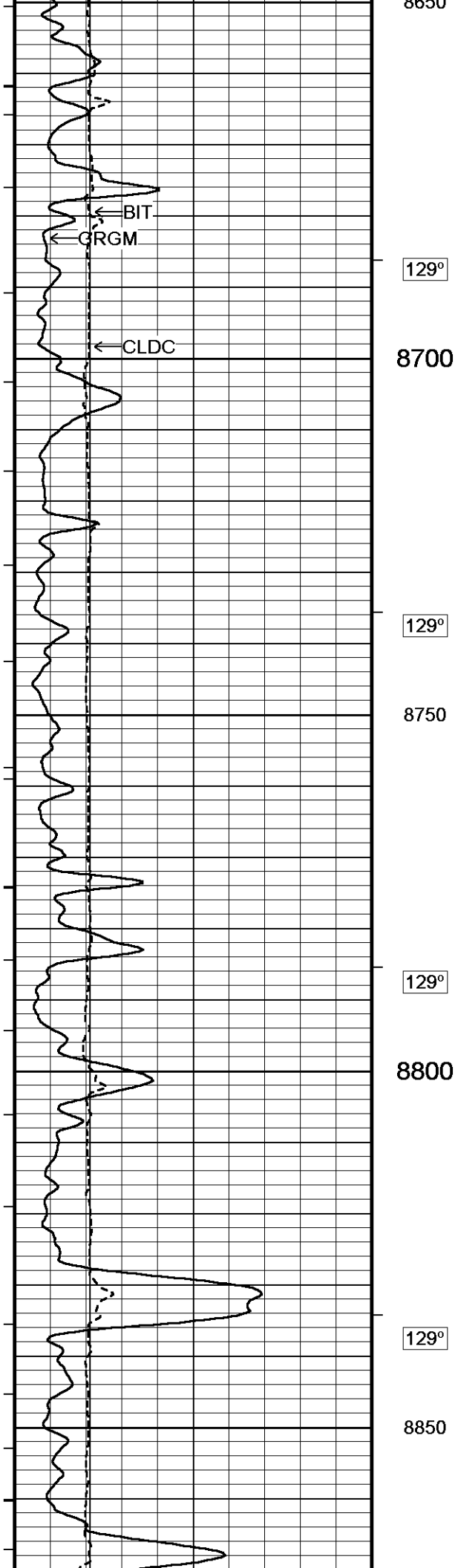


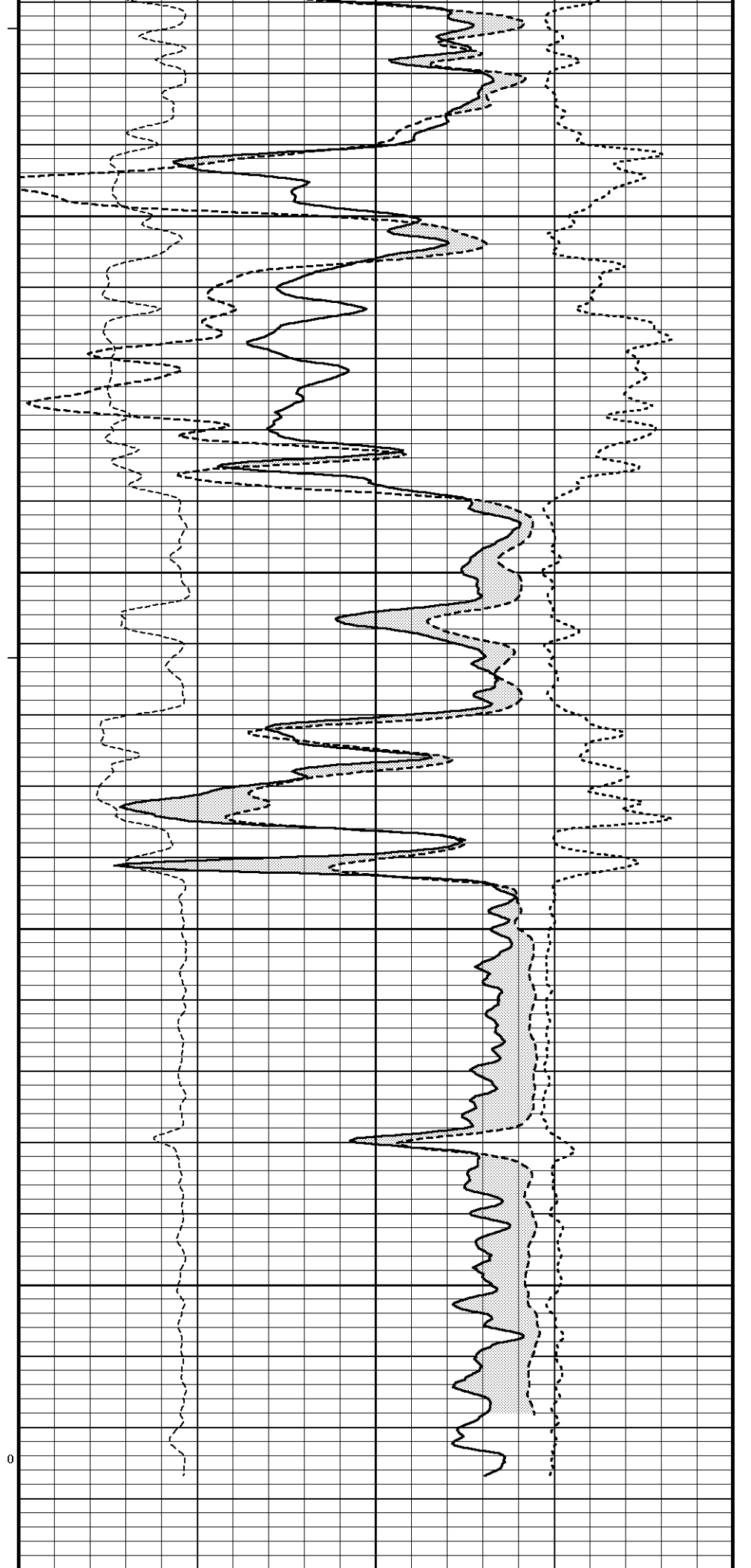
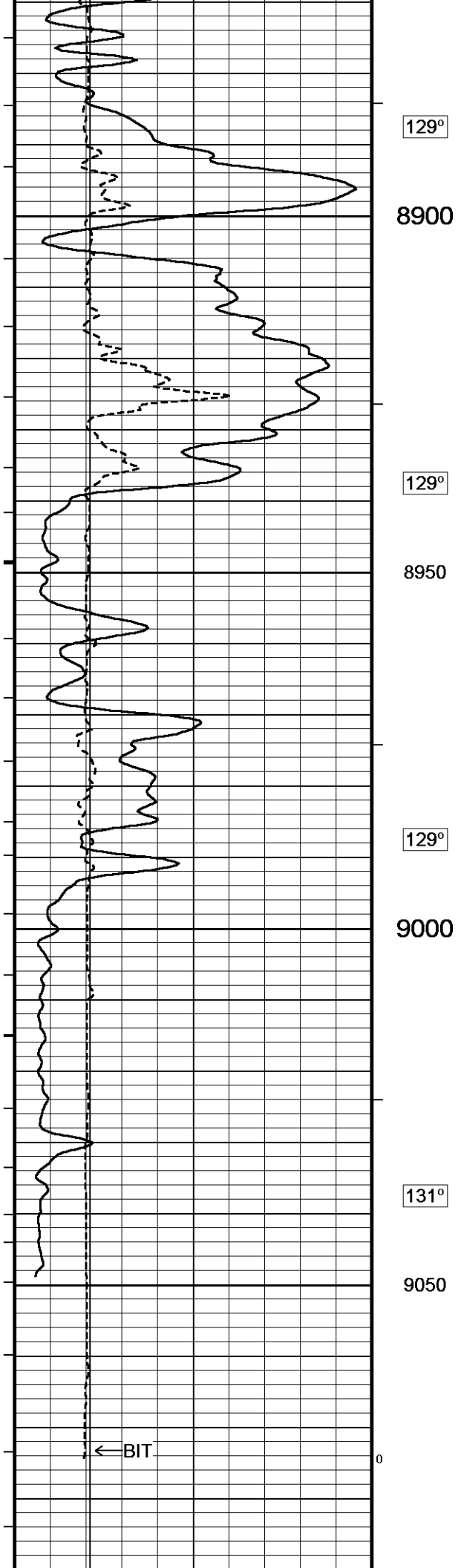












9100

9150

Depth
In
Feet

Timing Marks
every 60.0 sec

Limestone Neutron Por.
percent
30 20 10 0 -10

Density Caliper
inches
4 9 14

Borehole
Temp in
deg F

HVI
every
10 cu ft

Limestone Density Por.
percent
30 20 10 0 -10

MGS Gamma Ray

API
0 75 150

Annular
Integral
every
10 cu ft

Bit Size
inches
4 9 14

Replay
Scale
1:240

PE
barns/electron
0 5 10

Density Correction
grams/cc
-0.25 0 0.25

Depth Based Data - Maximum Sampling Increment 10.0cm
Filename: C:\Data\SANDRIDGE POWERS 1-2H\POWERS 1-2H RTAP.dta
System Versions: Processed with 13.02.6600 Plotted with 13.02.6600

Plotted on 16-JUL-2012 09:32
Recorded on 16-JUL-2012 07:45

5 INCH MAIN LOG

5 INCH MAIN LOG

Depth Based Data - Maximum Sampling Increment 10.0cm
Filename: C:\Data\SANDRIDGE POWERS 1-2H\POWERS 1-2H RTAP.dta
System Versions: Processed with 13.02.6600 Plotted with 13.02.6600

Plotted on 16-JUL-2012 09:32
Recorded on 16-JUL-2012 07:45

Timing Marks
every 60.0 sec

Depth
In
Feet

Compensated Density
grams/cc
2 2.25 2.50 2.75 3

Density Caliper
inches
4 9 14

Borehole
Temp in
deg F

HVI

Limestone Density Por.

every 10 cu ft

MGS Gamma Ray

API

0 75 150

150 225 300

Bit Size

inches

4 9 14

percent

30 20 10 0 -10

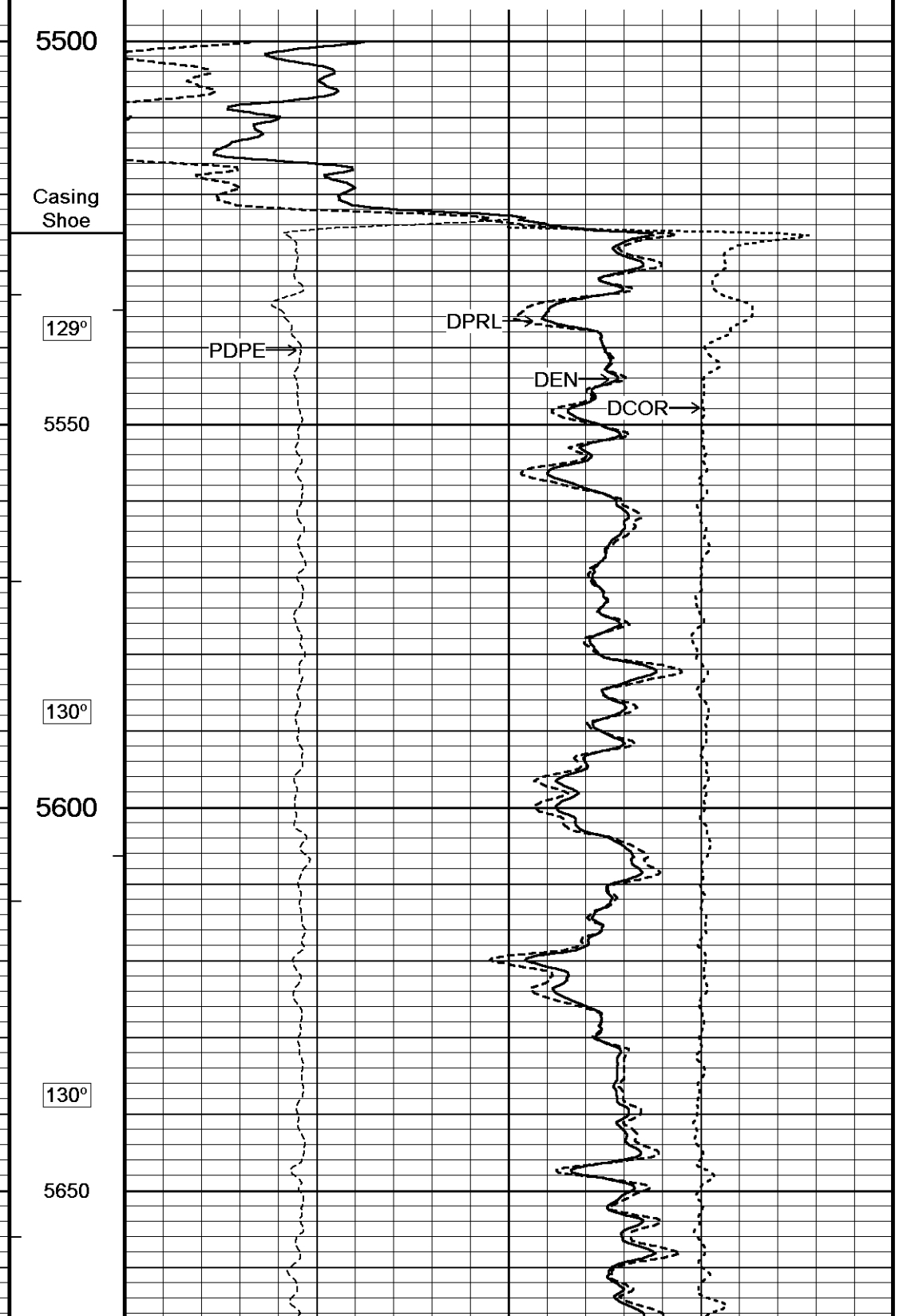
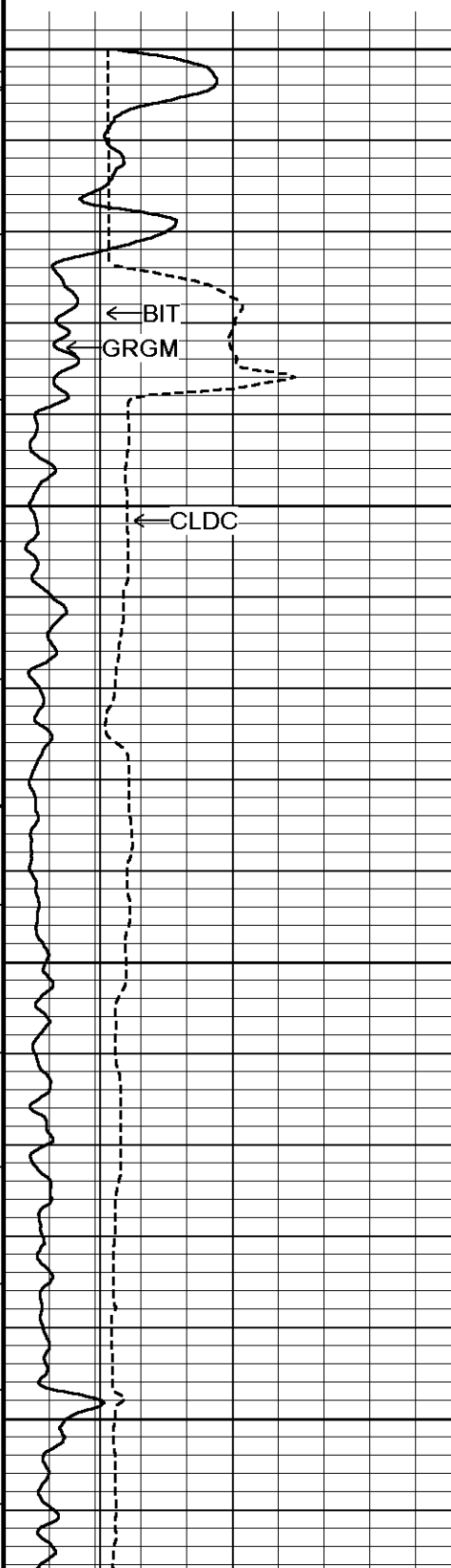
Annular Integral every 10 cu ft

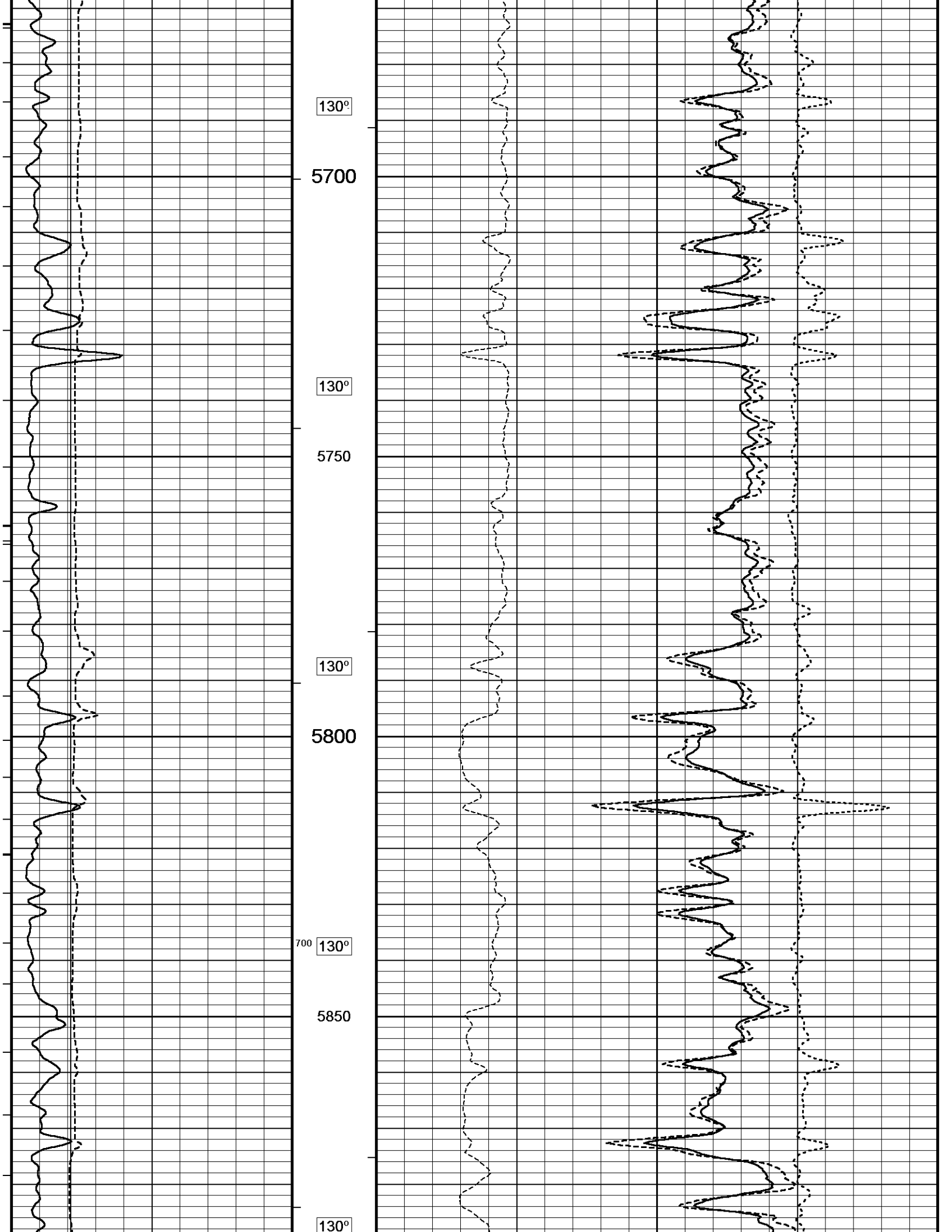
PE barns/electron

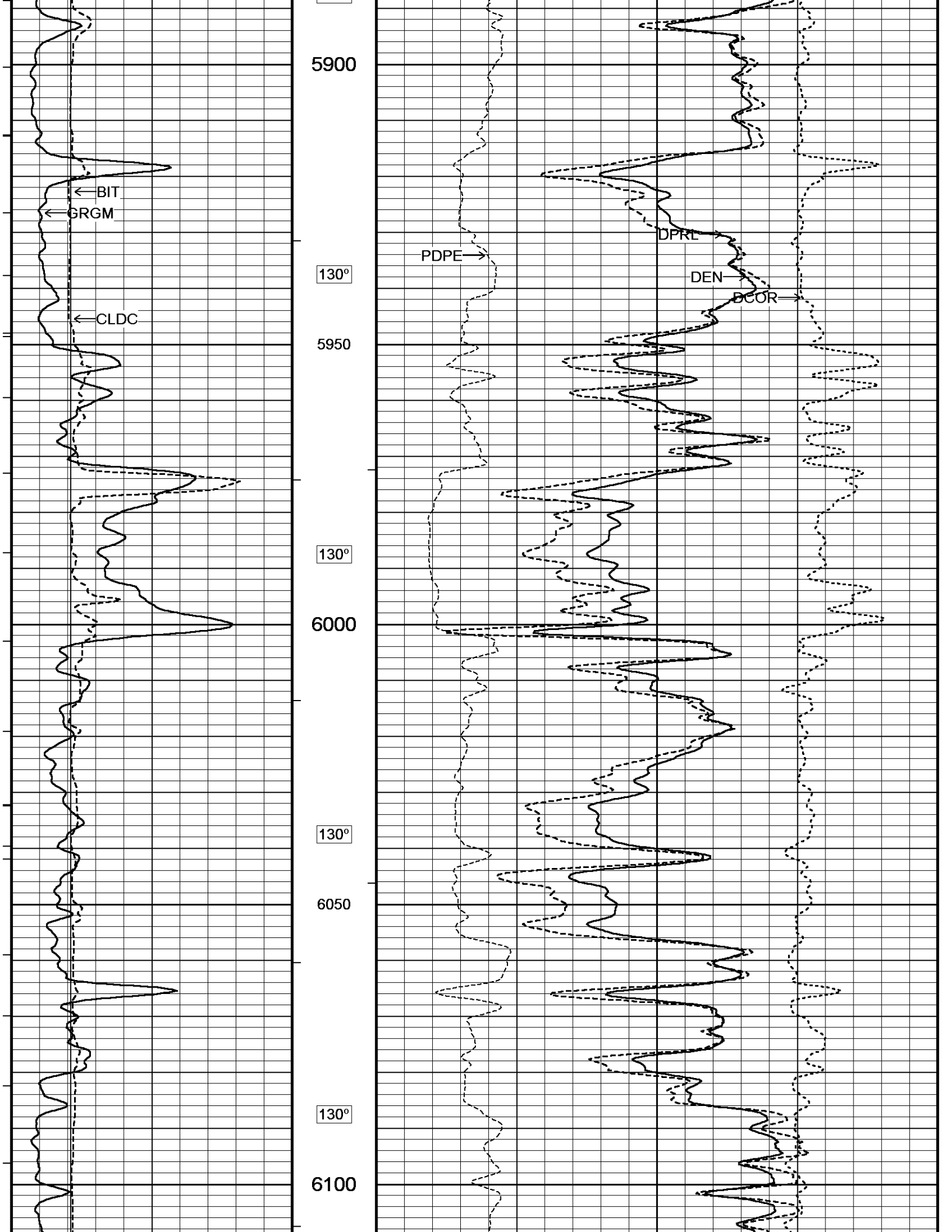
Density Correction grams/cc

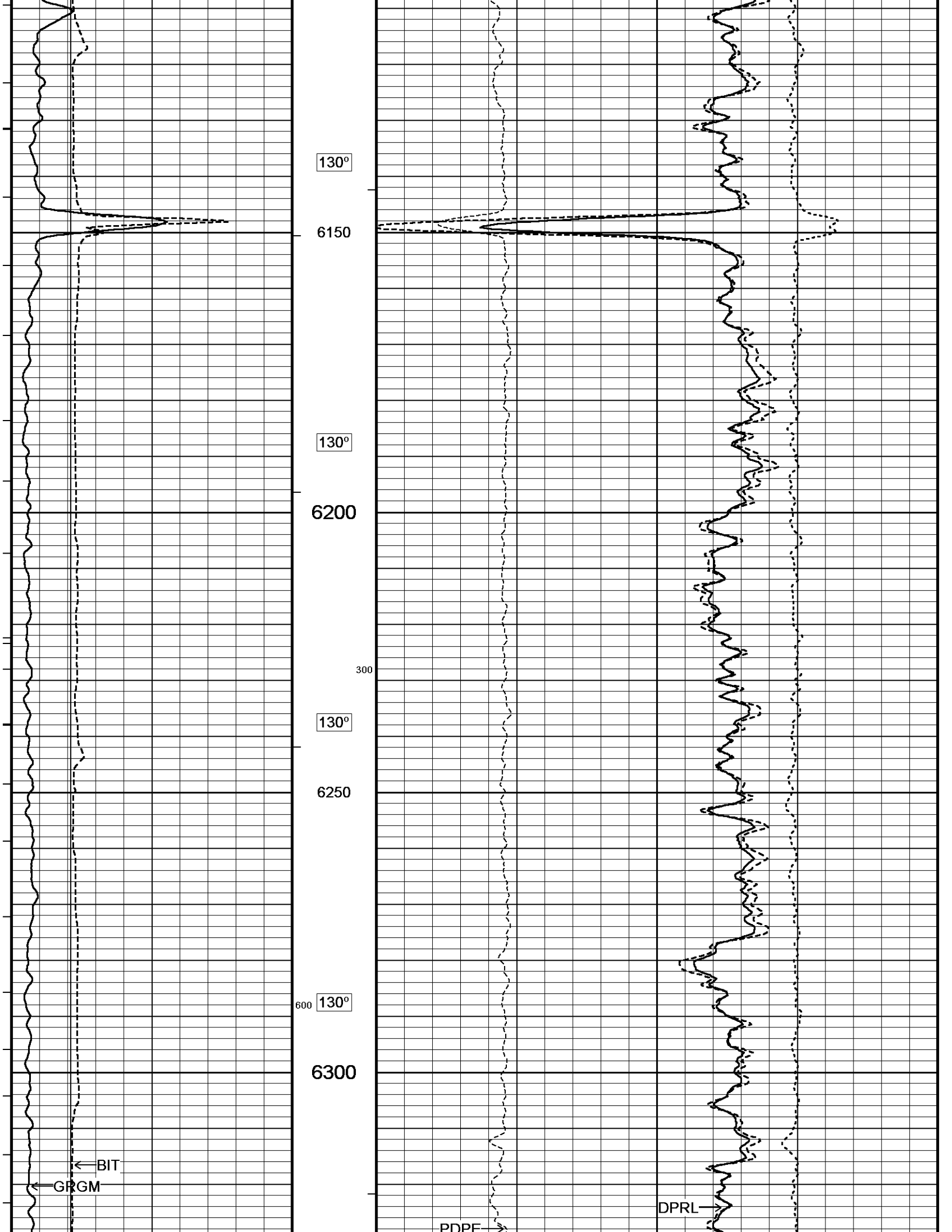
0 5 10 -0.25 0 0.25

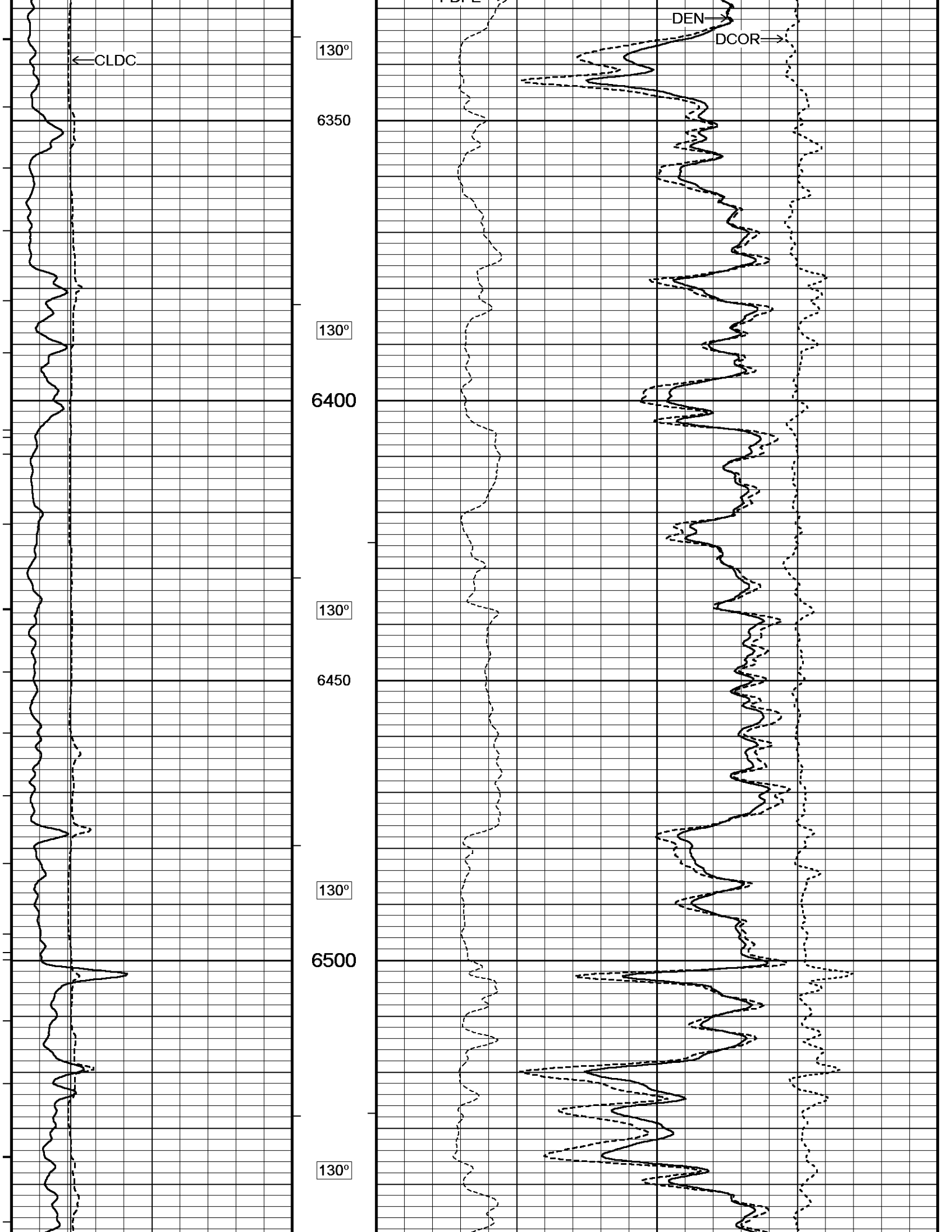
Replay Scale 1:240

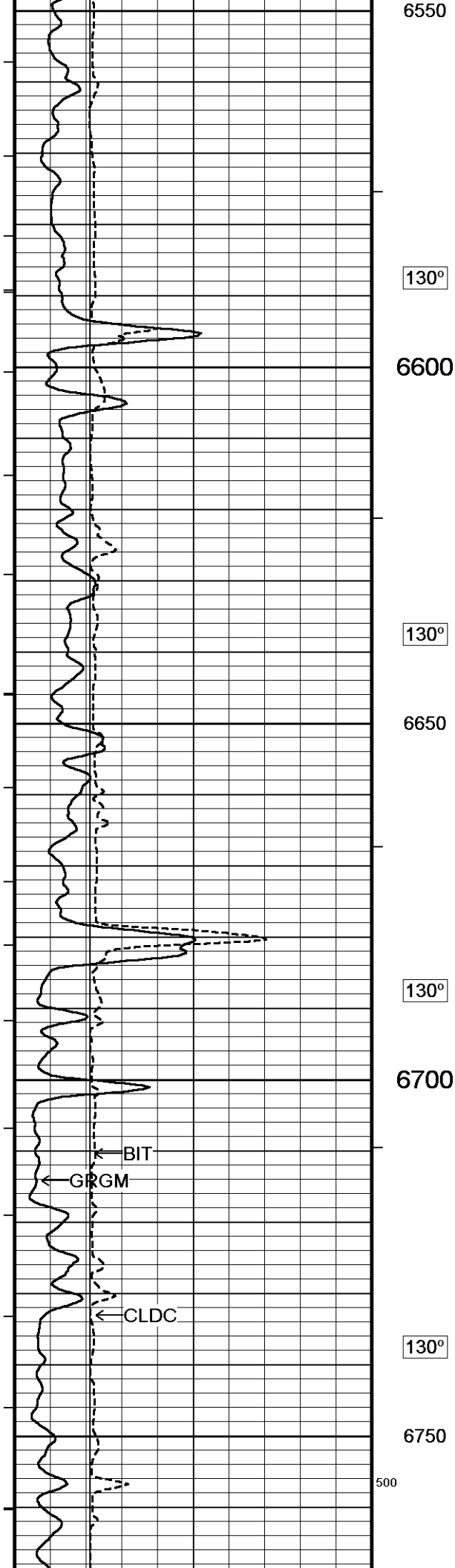




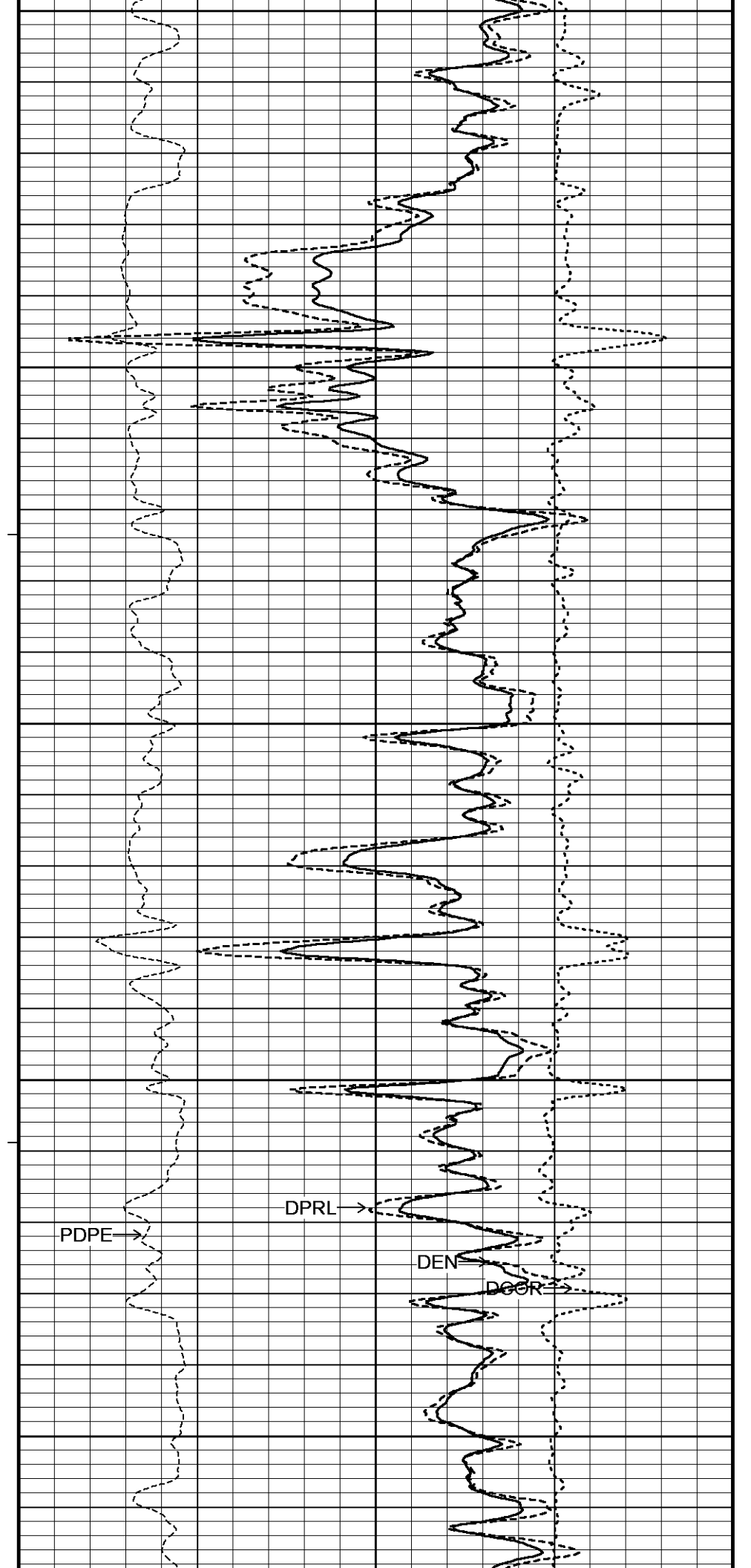




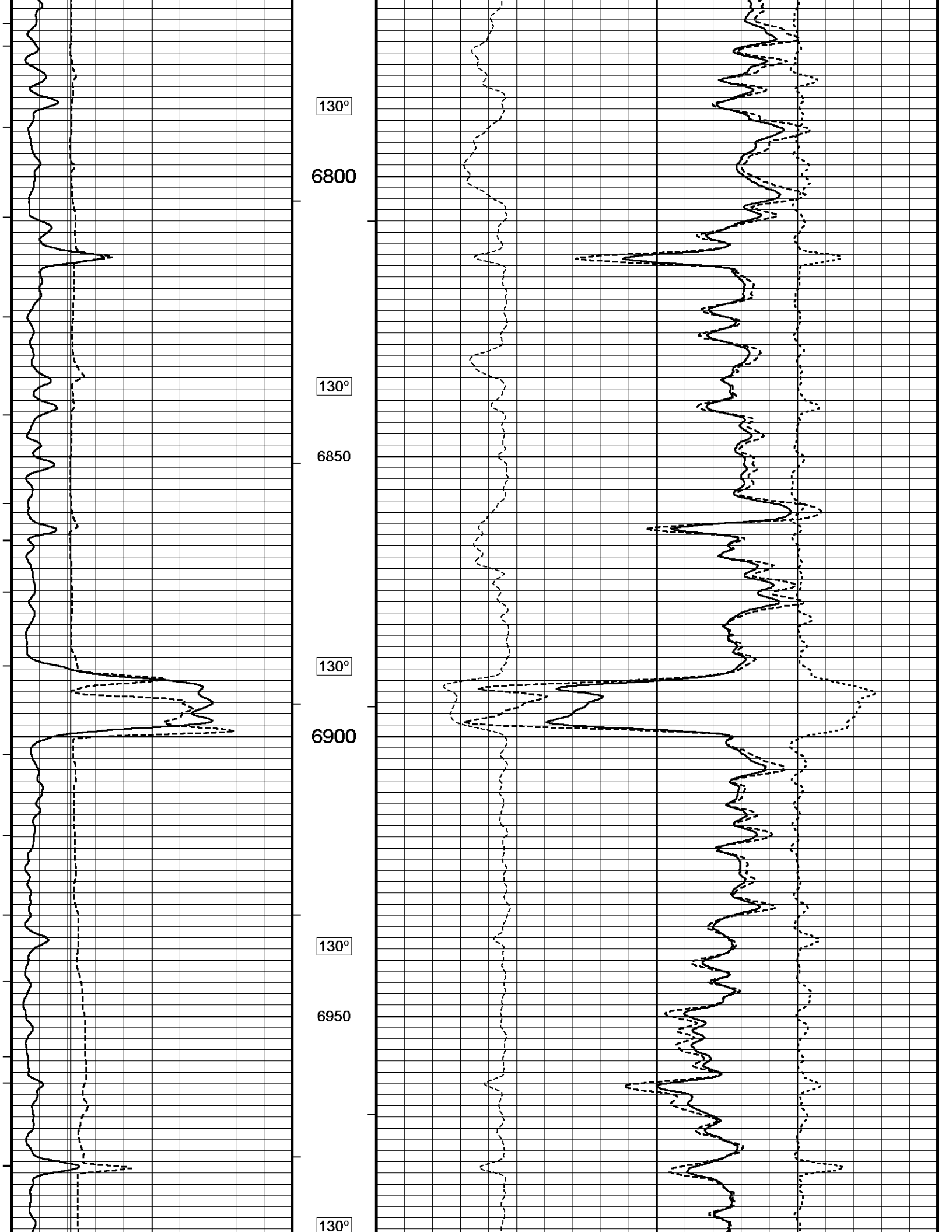


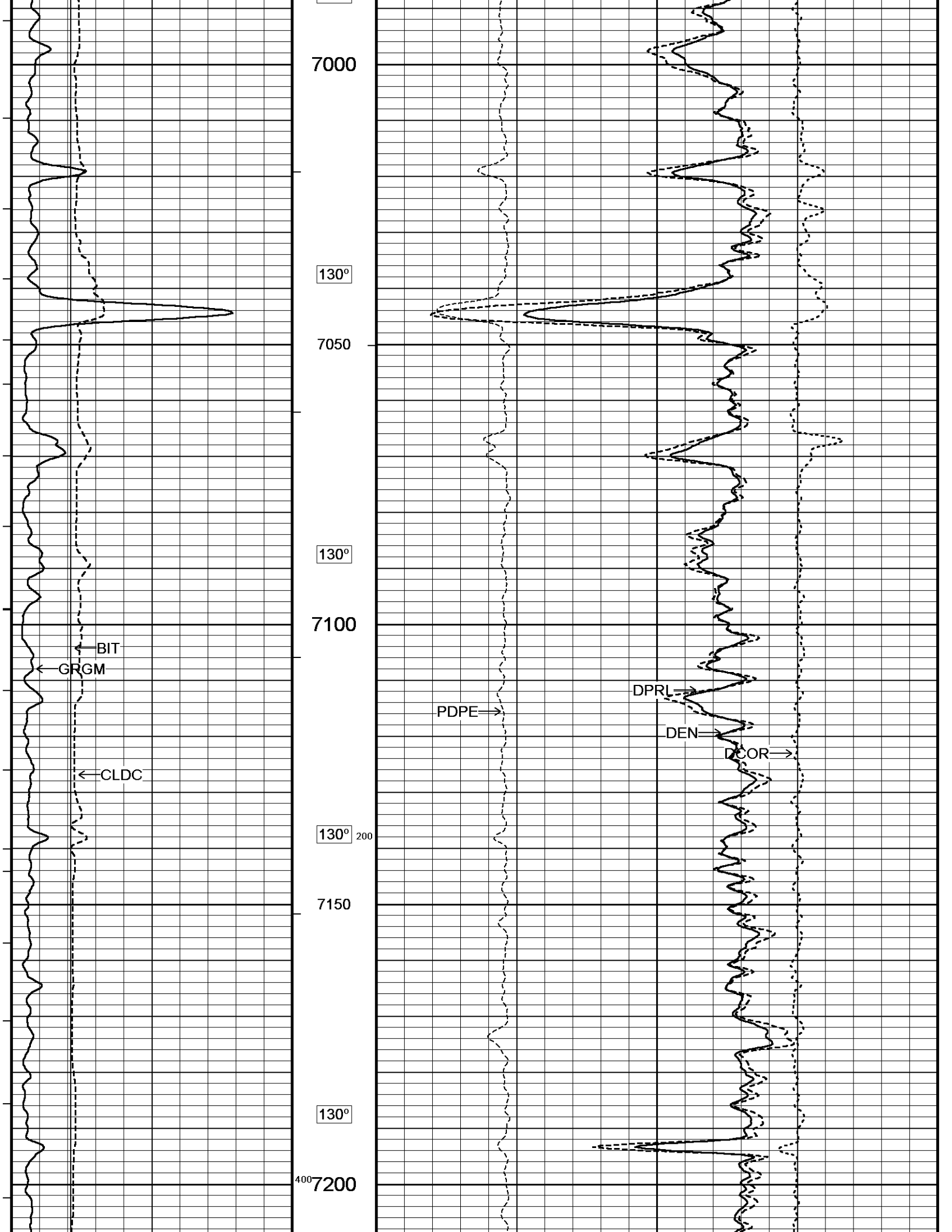


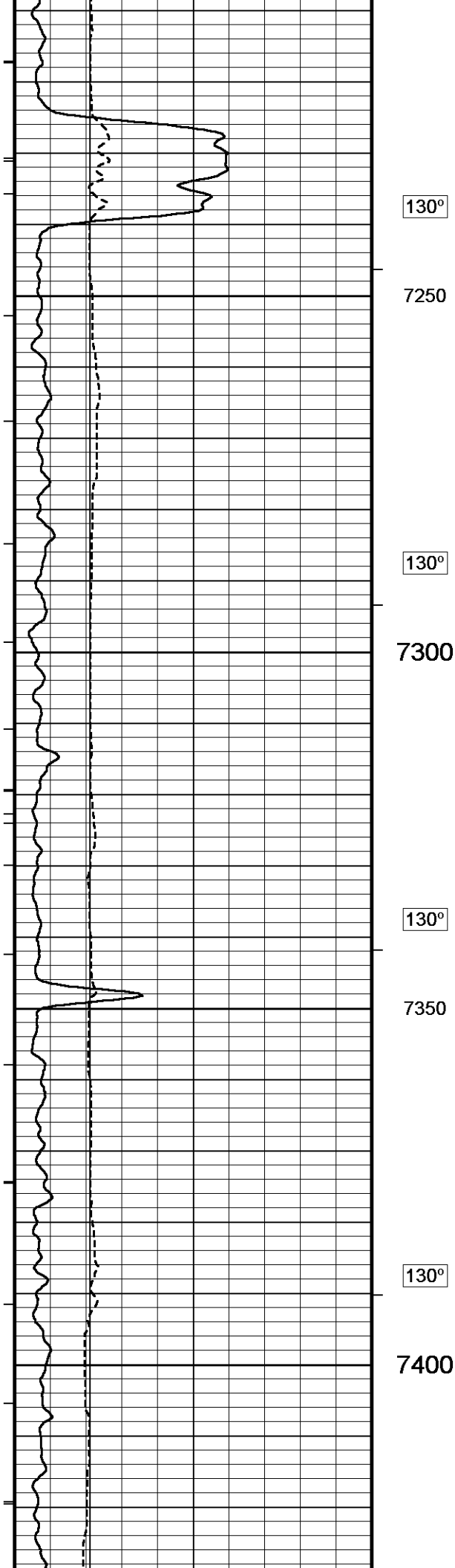
6550
130°
6600
130°
6650
130°
6700
130°
6750
500



PDPE
DPRL
DEN
DGOR







130°

7250

130°

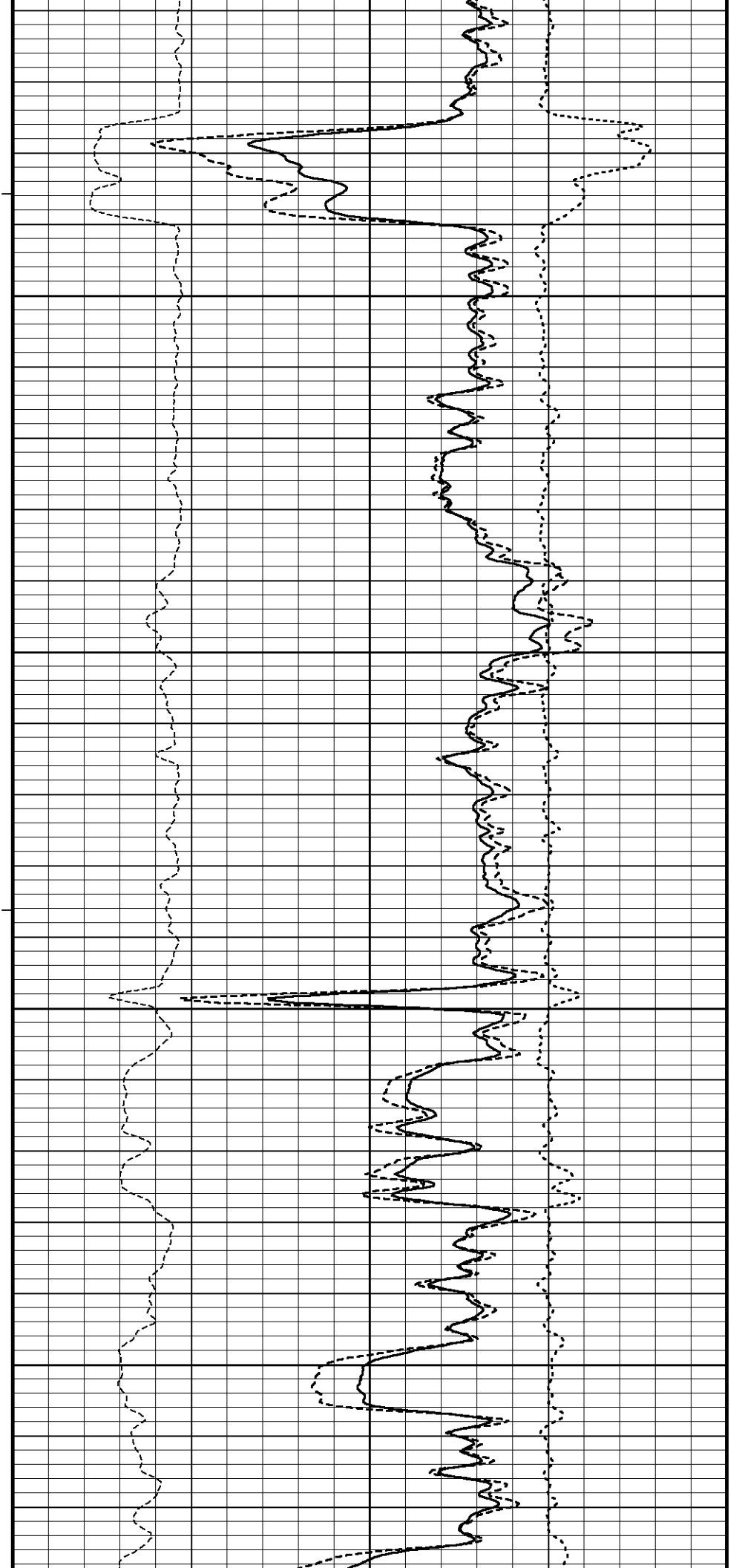
7300

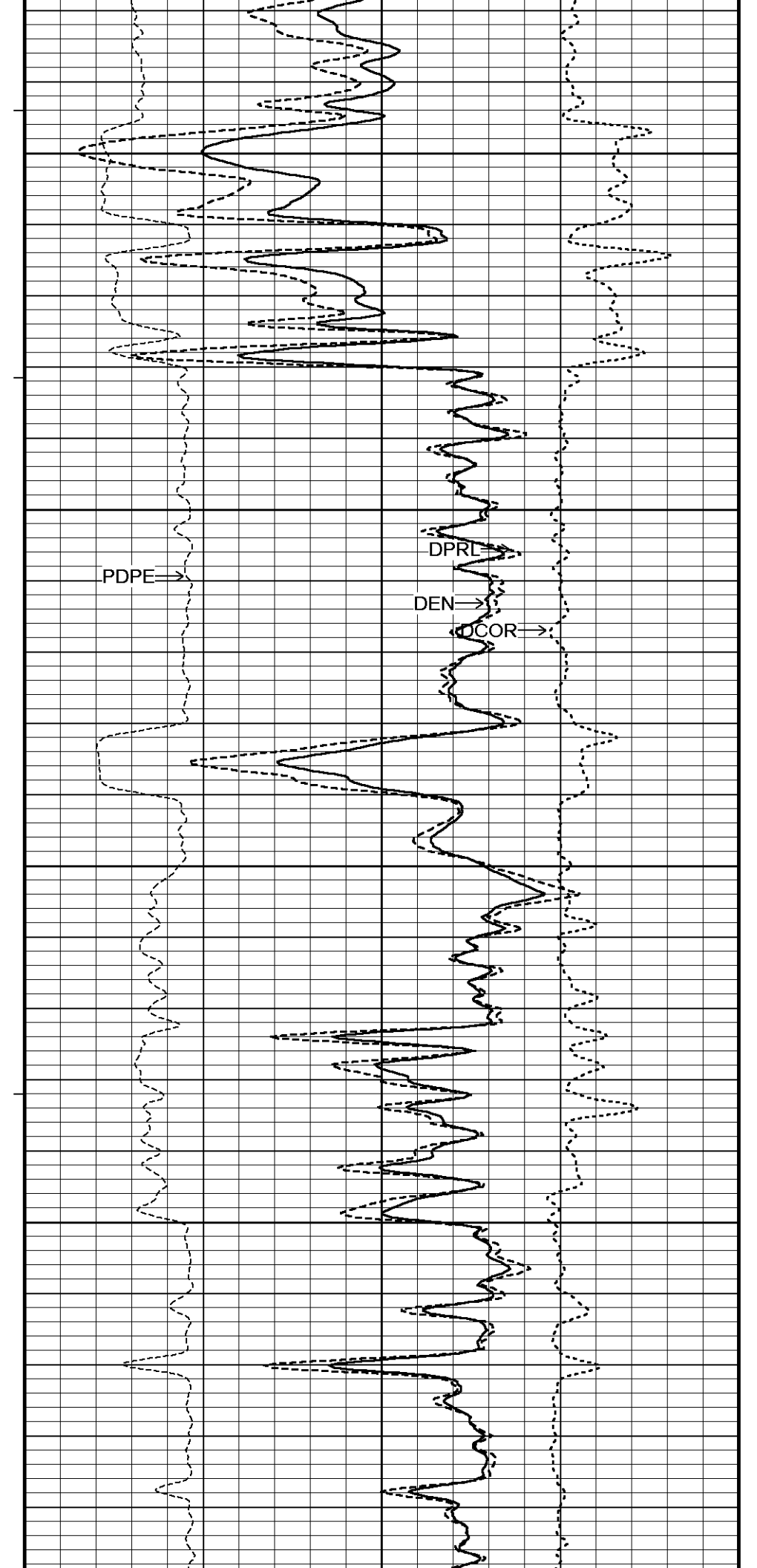
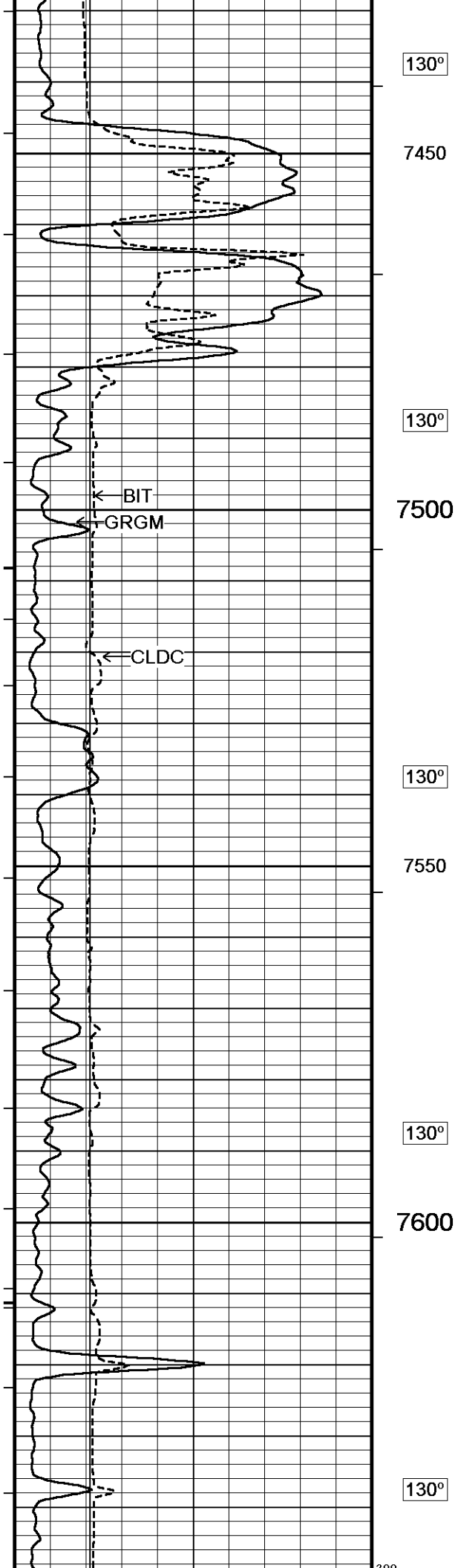
130°

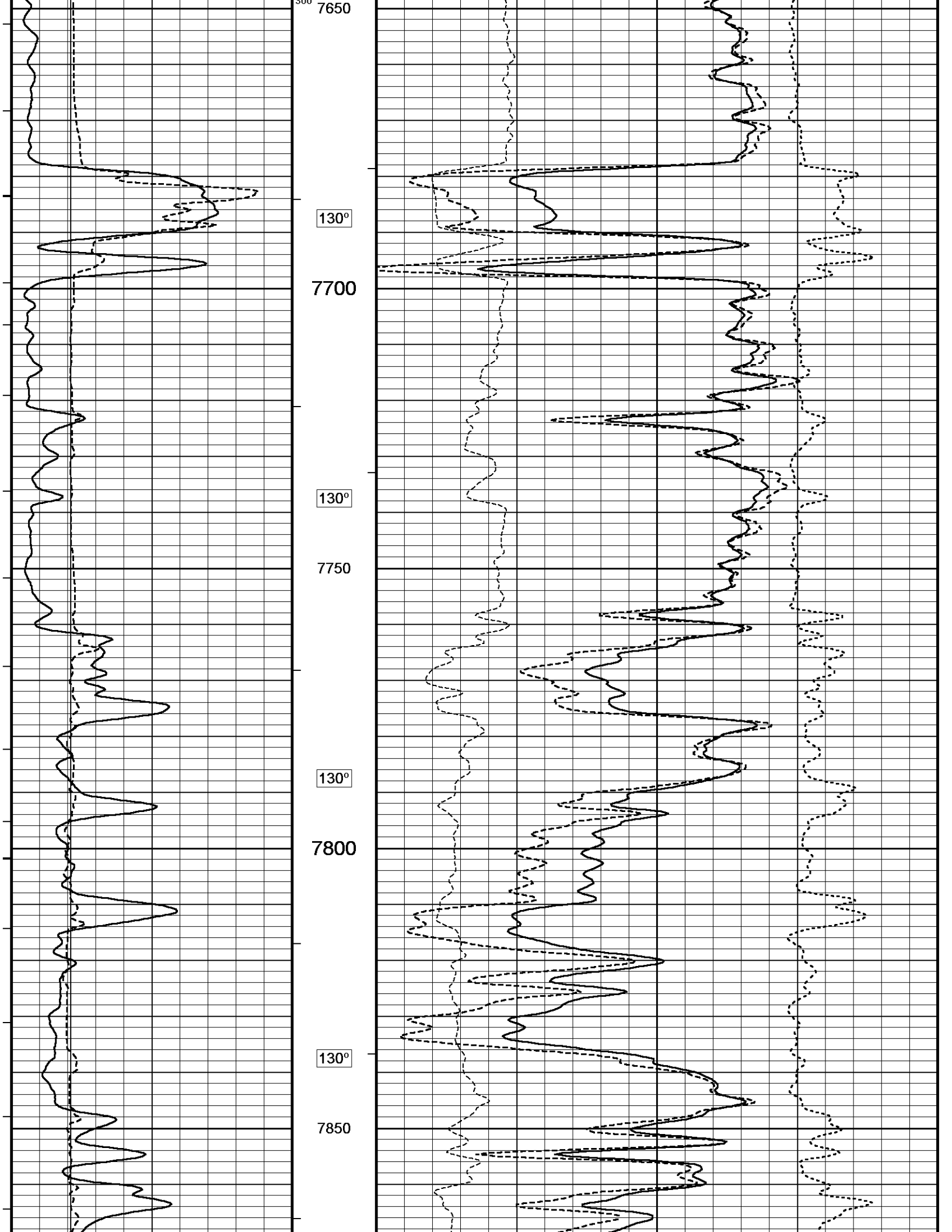
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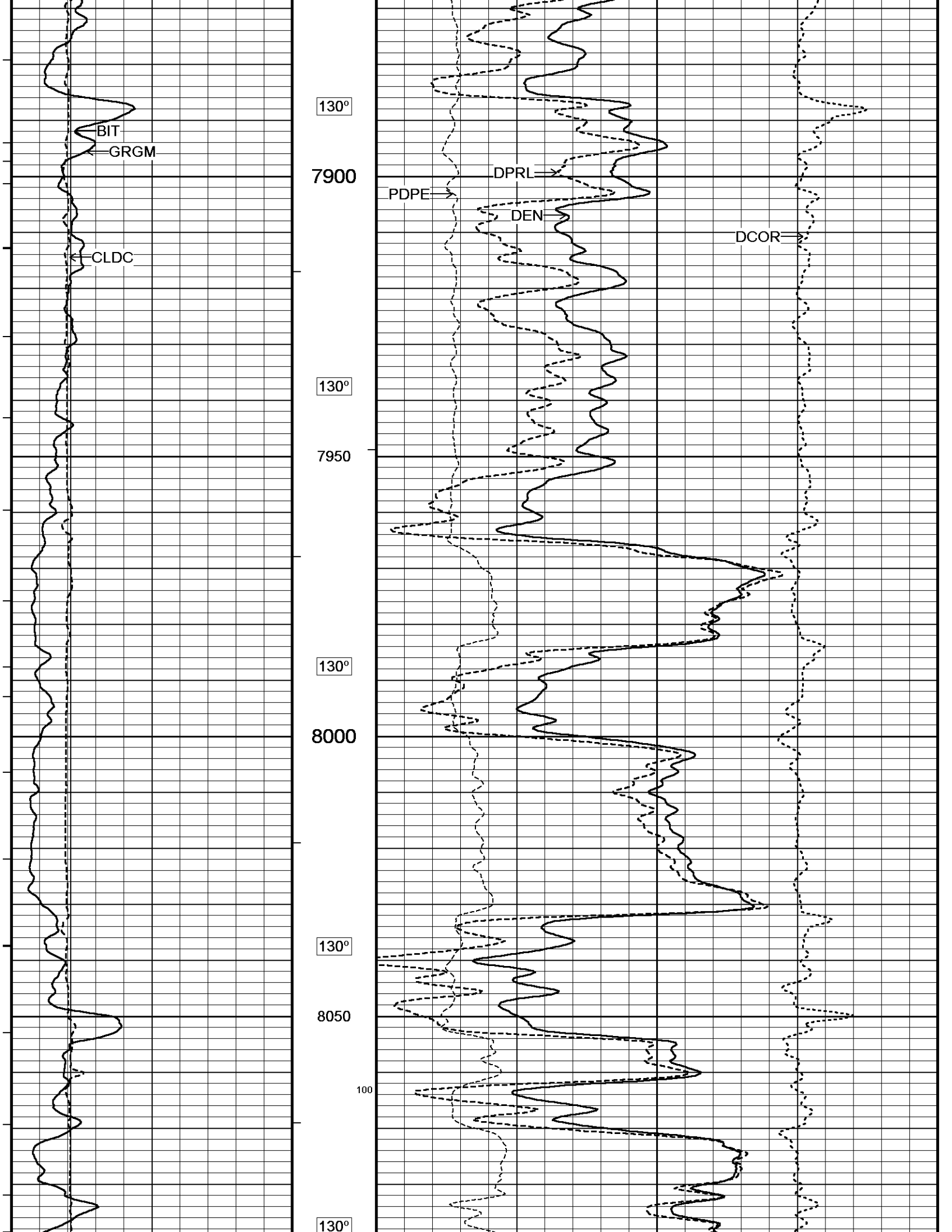
130°

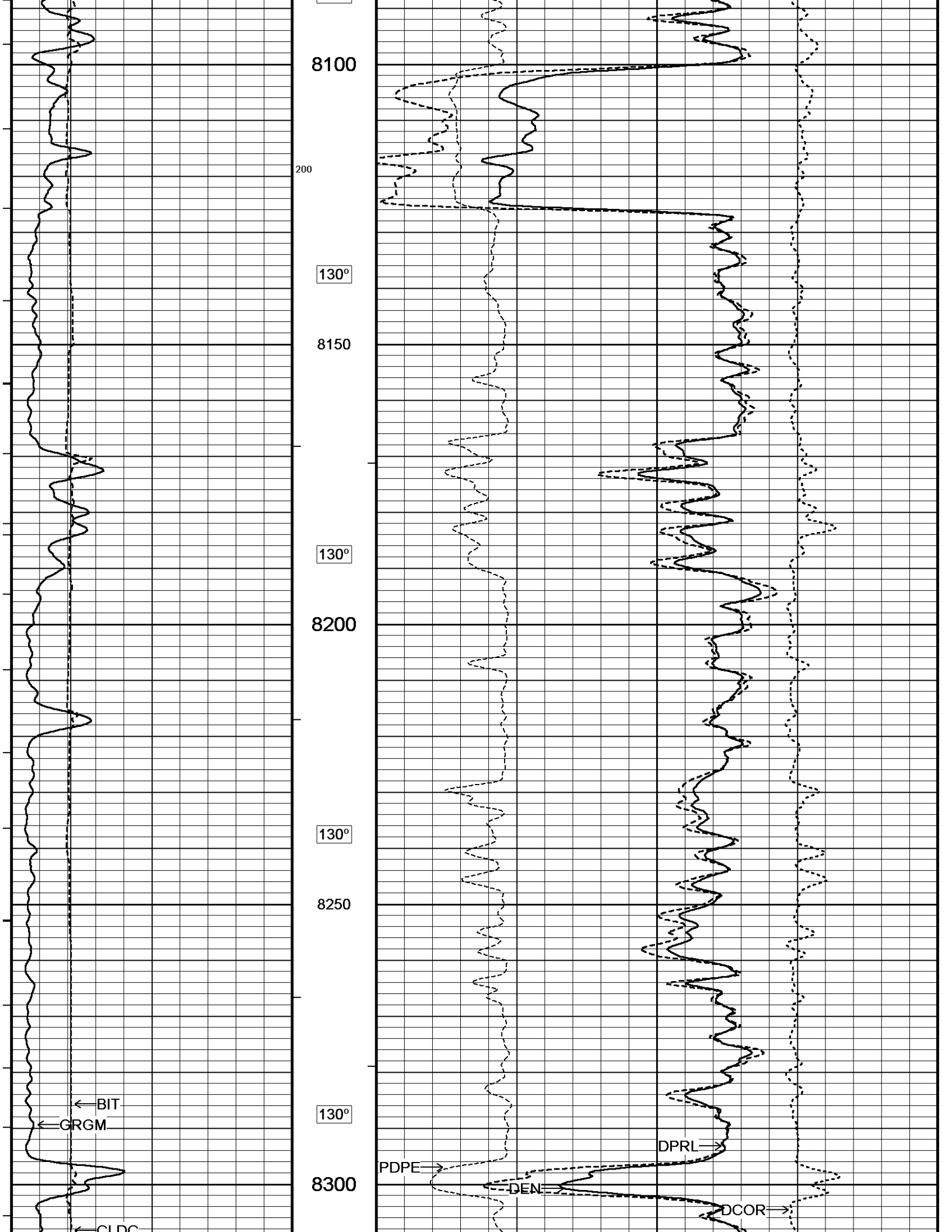
7400

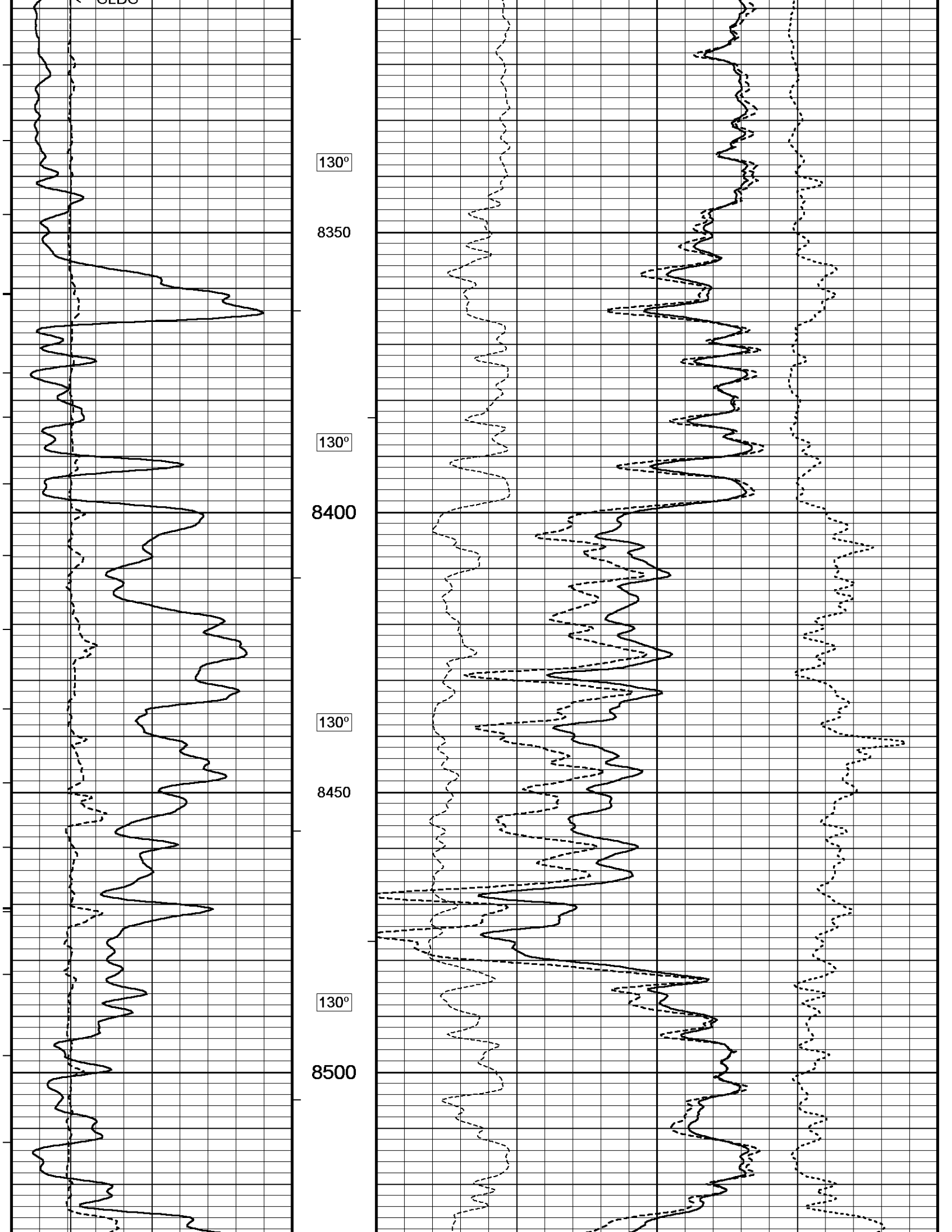


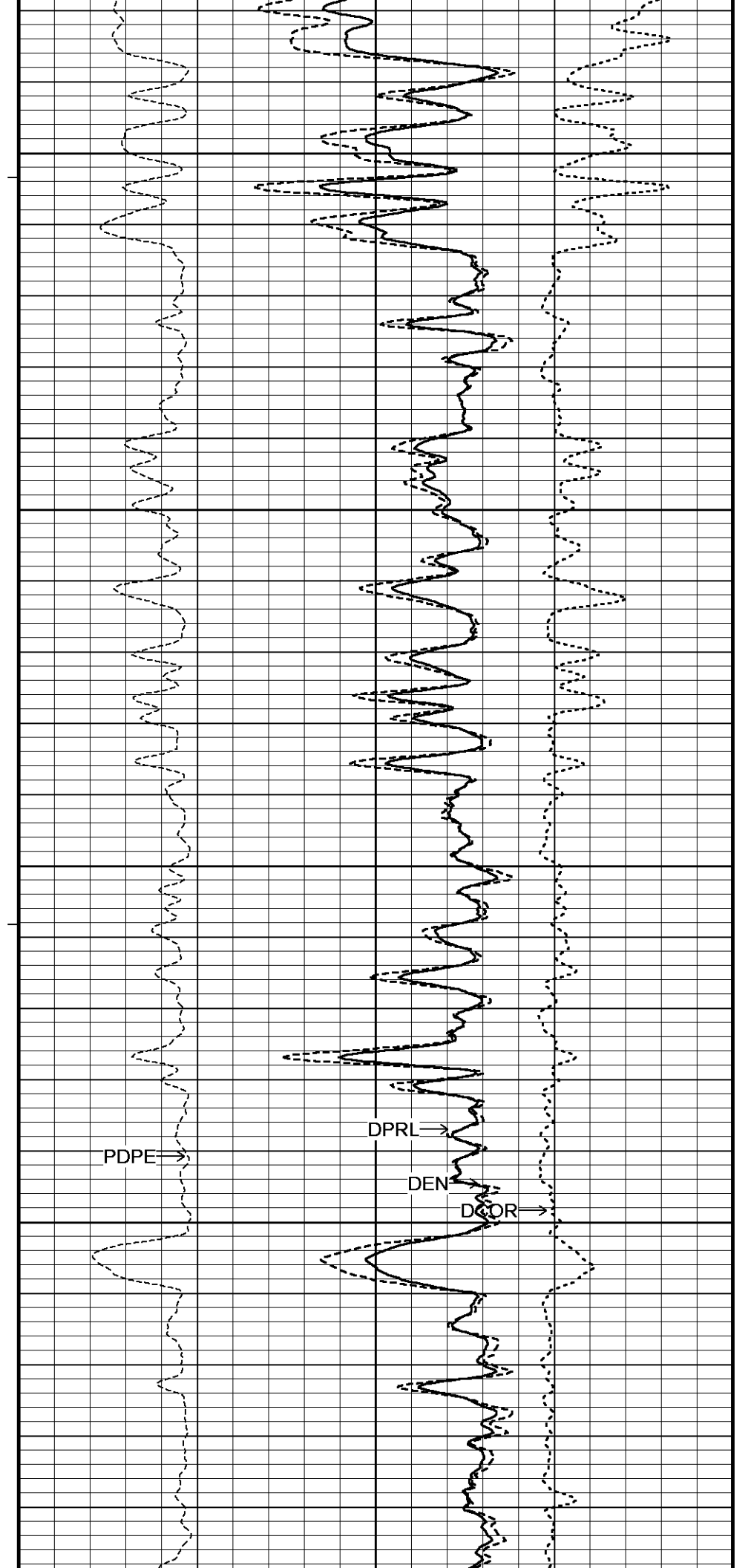
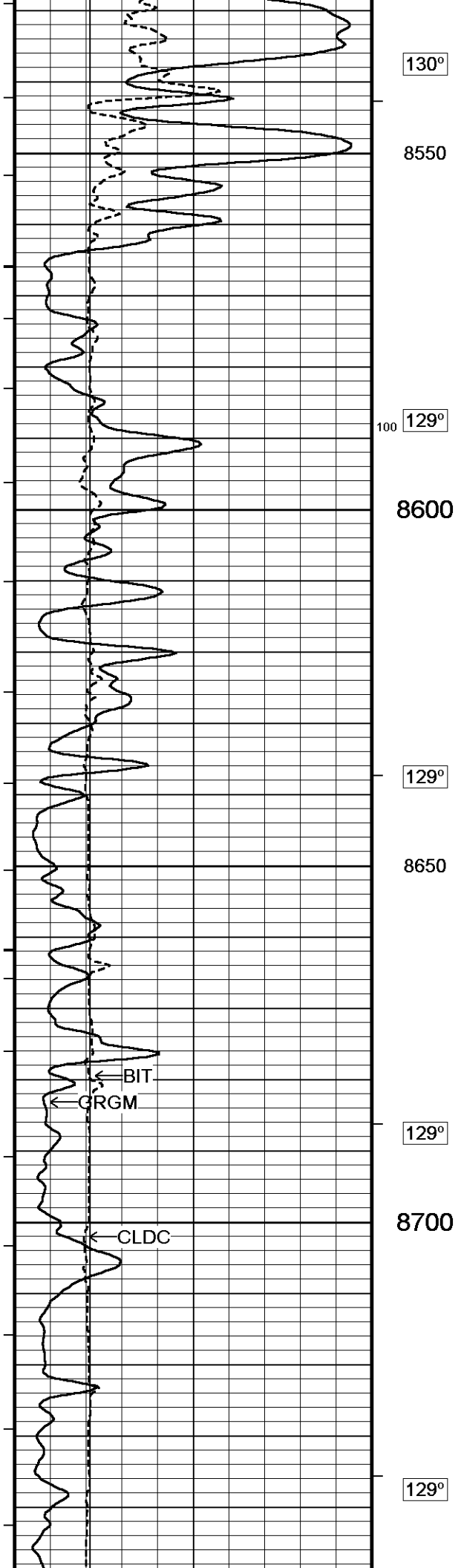


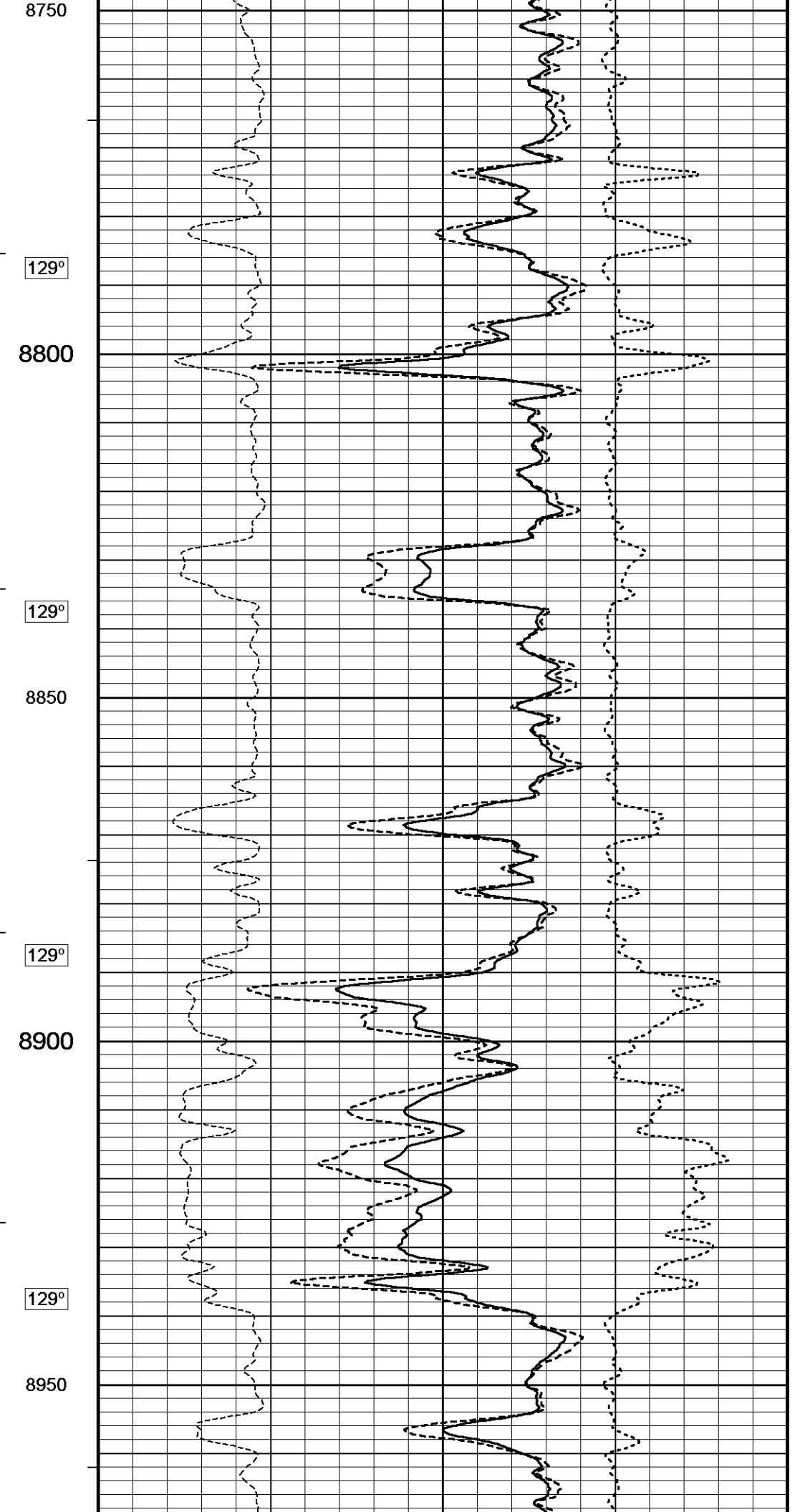
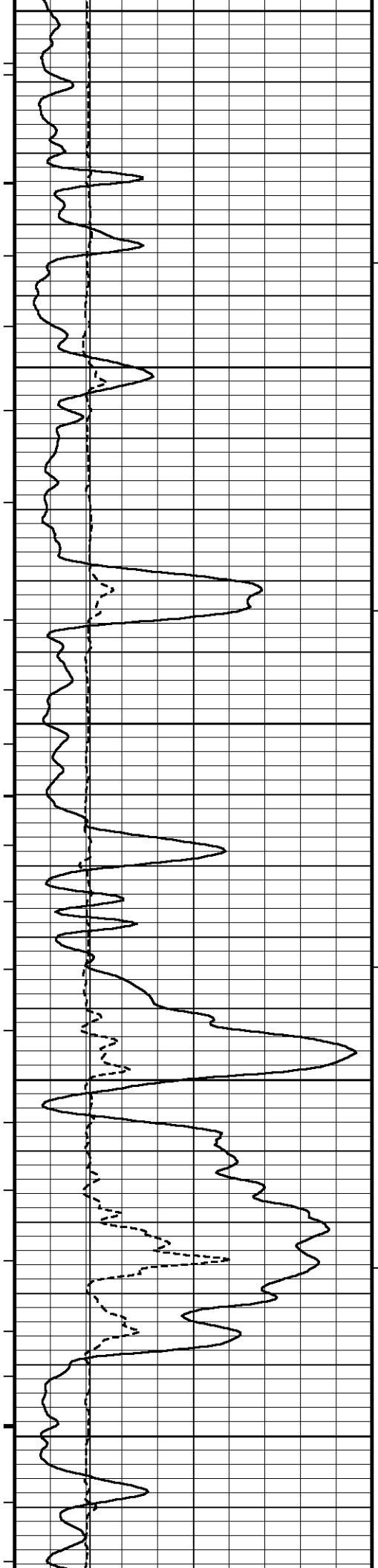


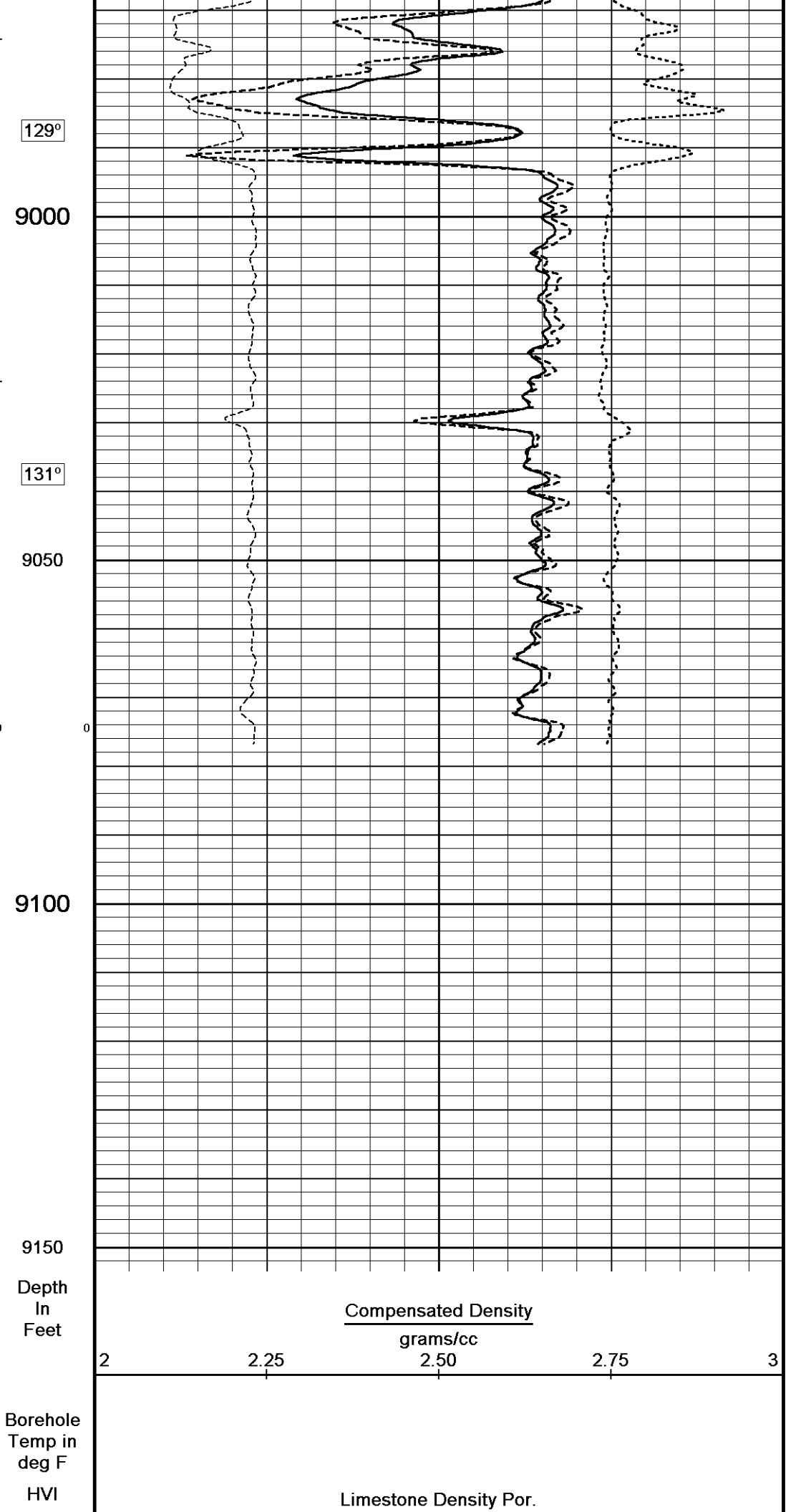
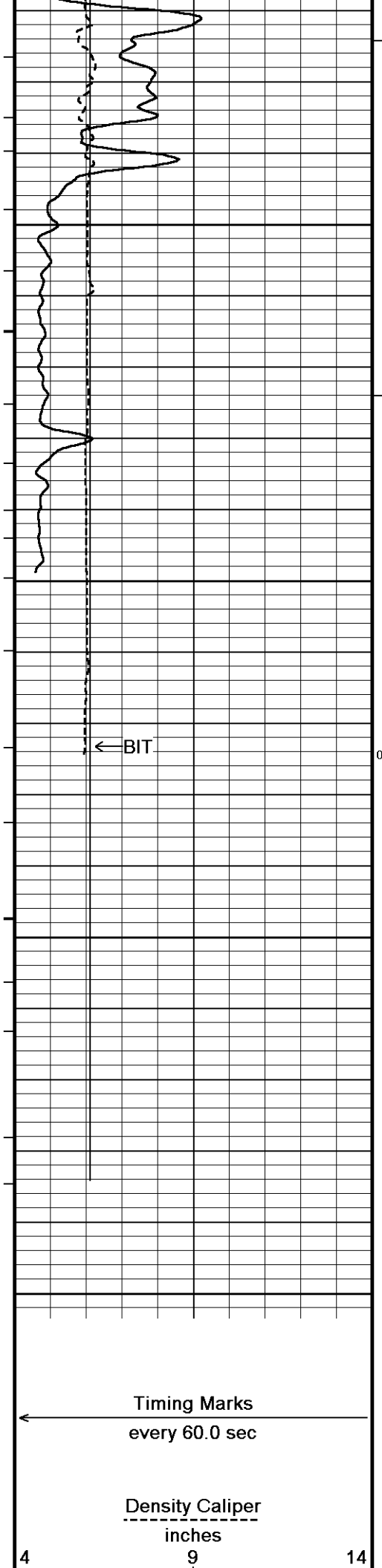


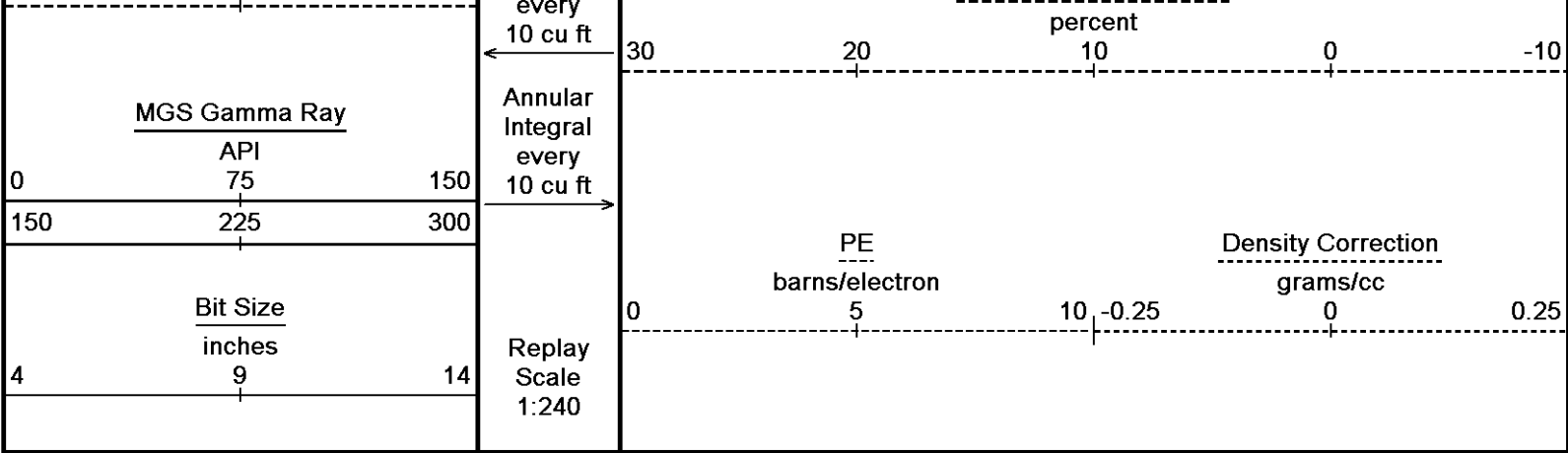












Depth Based Data - Maximum Sampling Increment 10.0cm Plotted on 16-JUL-2012 09:32
 Filename: C:\Data\SANDRIDGE POWERS 1-2H\POWERS 1-2H RTAP.dta Recorded on 16-JUL-2012 07:45
 System Versions: Processed with 13.02.6600 Plotted with 13.02.6600

↑ 5 INCH MAIN LOG ↑

BEFORE SURVEY CALIBRATION
 C:\Data\SANDRIDGE POWERS 1-2H\POWERS 1-2H RTAP.dta

General Constants All 000 Last Edited on 16-JUL-2012,08:03

General Parameters

Mud Resistivity	1.000	ohm-metres
Mud Resistivity Temperature	80.000	degrees F
Water Level	0.000	feet
Density/Neutron Processing	Wet Hole	

Hole/Annular Volume and Differential Caliper Parameters

HVOL Method	Single Caliper
HVOL Caliper 1	Density Caliper
HVOL Caliper 2	N/A
Annular Volume Diameter	4.500 inches
Caliper for Differential Caliper	Density Caliper

Rwa Parameters

Porosity used	Base Density Porosity
Resistivity used	Array Ind. Six Res Rt
RWA Constant A	0.610
RWA Constant M	2.150

Strain Gauge Constants SER-B.A 159 Last Edited on

Atmospheric Pressure 14.70 psi

Serial Number 0

Calibration Date 000000000000

Base Check Date

Dead Weight Serial Number 0

Dead Weight Gravitational Correction 1.0

Temperature	75.0	150.0	250.0	350.0	degrees F
Pressure psia	Inc. Dec.	Inc. Dec.	Inc. Dec.	Inc. Dec.	
0.0	0.000 0.000	0.000 0.000	0.000 0.000	0.000 0.000	
2000.0	0.000 0.000	0.000 0.000	0.000 0.000	0.000 0.000	
4000.0	0.000 0.000	0.000 0.000	0.000 0.000	0.000 0.000	
6000.0	0.000 0.000	0.000 0.000	0.000 0.000	0.000 0.000	
8000.0	0.000 0.000	0.000 0.000	0.000 0.000	0.000 0.000	
10000.0	0.000 0.000	0.000 0.000	0.000 0.000	0.000 0.000	

Strain Gauge Constants MMS-E.B 166 Last Edited on 05-JUL-2012,15:52

Atmospheric Pressure 14.70 psi

Serial Number 0

Calibration Date 000000000000

Base Check Date

Dead Weight Serial Number 0

Dead Weight Gravitational Correction			1.0		250.0		350.0		degrees F
Temperature	75.0		150.0		250.0		350.0		degrees F
Pressure psia	Inc.	Dec.	Inc.	Dec.	Inc.	Dec.	Inc.	Dec.	
0.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2000.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
4000.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
6000.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
8000.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
10000.0	0.000		0.000		0.000		0.000		

MMS Parameters MMS-E.B 166

Last Edited on 31-AUG-2011 11:09

Logging Parameters

Firmware Version	2v40	
Caliper Open On	MAI	
Caliper Open Delay	0.0	minutes
Caliper Closed On	Unknown	
Caliper Closed Delay	N/A	minutes
Sample Rate	1.00	seconds
Use Deep Sleep	No	
Delay Deep Sleep	N/A	
Deep Sleep Wake Time	N/A	minutes
Deep Sleep Wake on Temperature	N/A	
Deep Sleep Wake Temperature	N/A	degrees C
Deep Sleep Wake on Pressure	N/A	
Deep Sleep Wake Pressure	N/A	psi
MMI Pad Pressure	0.0	

Release Parameters

Pulse Duration Base Level	10.0	seconds
Pulse Duration Transition Time	5.0	seconds
Pulse Duration Status Pulse From	10.0	seconds
Pulse Duration Caliper Close From	35.0	seconds
Pulse Duration Caliper Open From	50.0	seconds
Pulse Duration Release Pulse From	70.0	seconds
Pulse Duration Release Pulse To	100.0	seconds
Pulse Release Duration	30.0	seconds
Pulse Discriminator Pressure Band	96.0	seconds
Pulse Pressure Discriminator	213.0	seconds
Use Negative Pulsing	No	
Good Status Reply Open Hole	65535.0	seconds
Good Status Reply Cased Hole	10.0	seconds
Bad Status Reply	25.0	seconds
Status Pulse To	15.0	seconds
Caliper Close To	0.0	seconds
Caliper Open To	55.0	seconds

Configuration

MMS,MPD,MPD,MAI

High Resolution Temperature Calibration MGS-C.J 142

Field Calibration on 12-JUN-2012,12:54

	Measured	Calibrated(Deg F)
Lower	0.00	0.00
Upper	0.00	0.00

High Resolution Temperature Constants MGS-C.J 142

Last Edited on

Pre-filter Length	11
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SP Calibration MGS-C.J 142

Field Calibration on 12-JUN-2012,12:55

	Measured	Calibrated (mV)
Reference 1	100.0	100.0
Reference 2	-100.0	-100.0

Gamma Calibration MGS-C.J 142

Field Calibration on 12-JUN-2012 12:59

	Measured	Calibrated (API)
Background	39	28

Calibrator (Gross)	1021	724
Calibrator (Net)	983	696

Gamma Constants MGS-C.J 142

Last Edited on 16-JUN-2012,23:07

Gamma Calibrator Number	036	
Mud Density	1.01	gm/cc
Caliper Source for Processing	Density Caliper	
Tool Position	Eccentred	
Concentration of KCl	0.00	kppm

Neutron Calibration MDN-B.J 388

Base Calibration on 29-JUN-2012,14:59
Field Check on 12-JUL-2012,10:55

Base Calibration				
		Measured	Calibrated (cps)	
	Near	Far	Near	Far
	3277	100	3714	110
Ratio	32.858		33.764	
Field Calibrator at Base				
			Calibrated (cps)	
			2207	3289
Ratio	0.671			
Field Check				
			Calibrated (cps)	
			2231	3352
Ratio	0.666			

Neutron Constants MDN-B.J 388

Last Edited on 05-JUL-2012,14:40

Neutron Source Id	N1055	
Neutron Jig Number	N639	
Epithermal Neutron	No	
Caliper Source for Processing	Density Caliper	
Stand-off	0.00	inches
Mud Density	1.00	gm/cc
Limestone Sigma	7.10	cu
Sandstone Sigma	4.26	cu
Dolomite Sigma	4.70	cu
Formation Pressure Source	Constant Value	
Formation Pressure	0.00	kpsi
Temperature Source	Constant Value	
Temperature	68.00	degrees F
Mud Salinity	0.00	kppm
Salinity Correction	Not Applied	
Formation Fluid Salinity Source	Constant Value	
Formation Fluid Salinity	0.00	kppm
Barite Mud Correction	Not Applied	

Accelerometer Parameters MIE-A.J 233

Date Of Last Accelerometer Calibration	22-NOV-2011,16:08		
	X Accelerometer	Y Accelerometer	Z Accelerometer
Slope	-1.106957	-1.101597	-1.096051
Offset	0.006667	0.007744	-0.005892

Accelerometer Constants MIE-A.J 233

Last Edited on 22-NOV-2011,16:08

Accelerometer Calibrator Number	000			
Accelerometer Temperature Characterisation				
X Accelerometer				
Serial Number	1057			
Calibration Date	27-Apr-2011			
	B0	B1	B2	B3
Bias(g)	0.00000e+000	2.82020e-006	-3.02029e-008	1.94332e-010
	SF0	SF1	SF2	SF3
Scale Factor(mA/g)	3.00000e+000	2.77285e-004	1.89104e-007	1.67186e-009
Y Accelerometer				
Serial Number	1073			
Calibration Date	02-May-2011			
	B0	B1	B2	B3
Bias(g)	0.00000e+000	1.04005e-005	2.10204e-009	1.21400e-010
	SF0	SF1	SF2	SF3
Scale Factor(mA/g)	3.00000e+000	2.77285e-004	1.89104e-007	1.67186e-009

Bias(g)	0.00000e+000	-1.04005e-005	2.19294e-008	-1.31489e-010
Scale Factor(mA/g)	3.00000e+000	2.69223e-004	2.39527e-007	9.12553e-010
Z Accelerometer				
Serial Number	977			
Calibration Date	20-Jan-2011			
Bias(g)	B0	B1	B2	B3
	0.00000e+000	1.86594e-005	1.00709e-008	3.83419e-011
Scale Factor(mA/g)	SF0	SF1	SF2	SF3
	3.00000e+000	2.74913e-004	2.75506e-007	1.29284e-009

Imager Pad Check MIE-A.J 233				Field Check on
Pad 1	Pad Not Tested	Pad 5	Pad Not Tested	
Pad 2	Pad Not Tested	Pad 6	Pad Not Tested	
Pad 3	Pad Not Tested	Pad 7	Pad Not Tested	
Pad 4	Pad Not Tested	Pad 8	Pad Not Tested	

Compact Micro Imager Constants MIE-A.J 233			Last Edited on 22-NOV-2011,19:26
Sonde Configuration	Imager Mode	degrees	
Arm-Pad Kit	Normal Pads (12.25 in)		
Centre Pad 1 Rotational Offset	0.00		
Image/Borehole Ovality Reference	Azimuth of Pad 1	degrees	
Non Active Buttons	Omit		
Search Angle	0.00		
Correlation Interval	1.00		
Correlation Step	0.50		
Current Offset	0.0000		
Squasher Start	N/A		
Image Processing	Enabled		

Caliper Calibration MIE-A.J 233					Base Calibration on 22-NOV-2011 16:05
					Field Calibration on 30-MAY-2012 14:18
Base Calibration					
Reading No	Pads 1-5 Meas.	Pads 3-7 Meas.	Calibrator Size (in)		
1	25479	25668	5.96		
2	36118	36010	7.97		
3	45775	45499	9.84		
4	57747	57059	11.91		
5	0	0	0.00		
Reading No	Pad 2 Meas.	Pad 4 Meas.	Pad 6 Meas.	Pad 8 Meas.	Calibrator Size (in)
1	24613	24005	24629	24615	5.96
2	33696	32386	33383	33850	7.97
3	41885	40590	41925	42007	9.84
4	51911	50551	51787	51761	11.91
5	0	0	0	0	0.00
Field Calibration					
	Measured	Measured	Actual		
	Pads 1-5 Caliper(in)	Pads 3-7 Caliper(in)	Caliper(in)		
	6.32	6.07	6.00		
	Measured	Measured	Measured	Measured	Actual
	Pad 2 Caliper(in)	Pad 4 Caliper(in)	Pad 6 Caliper(in)	Pad 8 Caliper(in)	Caliper(in)
	3.16	2.92	2.93	3.13	6.00

Caliper Constants MIE-A.J 233		Last Edited on 22-NOV-2011,16:06
Caliper Difference for BRKT	0.120	inches

Magnetometer Parameters MIE-A.J 233			
Date Of Last Magnetometer Calibration	22-NOV-2011,16:09		
Slope	X Magnetometer	Y Magnetometer	Z Magnetometer
	-1.000000	-1.002341	-0.997182
Offset	0.005318	-0.018938	0.000387

Magnetometer Constants MIE-A.J 233		Last Edited on
Magnetometer Calibrator Number	000	

Magnetic Declination	4.18	degrees	East
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Induction Calibration MAI-B.J 390

Base Calibration on 16-AUG-2010 14:24

Field Check on 14-JUL-2012 18:18

Base Calibration

Test Loop Calibration

Channel	Measured		Calibrated (mmho/m)	
	Low	High	Low	High
1	16.8	458.6	9.3	966.2
2	6.3	377.7	7.6	821.4
3	3.8	258.6	5.2	566.0
4	1.9	132.3	2.6	279.2

Array Temperature	77.9	Deg F
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Channel	Base Check (mmho/m)		Field Check (mmho/m)	
	Low	High	Low	High
1	0.0	0.0	12.3	3951.3
2	0.0	0.0	27.9	3554.4
3	0.0	0.0	26.0	3053.4
4	0.0	0.0	18.3	2082.7
Deep	0.0	0.0	15.9	2001.1
Medium	0.0	0.0	37.7	4001.6
Shallow	0.0	0.0	41.8	5247.2

Array Temperature	0.0	92.7	Deg F
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Induction Constants MAI-B.J 390

Last Edited on 16-JUL-2012,08:04

Induction Model	RtAP-WBM
Caliper for Borehole Corr.	Bit Size
Hole Size for Borehole Correction	N/A inches
Tool Centred	No
Stand-off Type	Fins
Stand-off	0.50 inches
Number of Fins on Stand-off	6.0000
Stand-off Fin Angle	60.00 degrees
Stand-off Fin Width	0.5000 inches
Borehole Corr. Rm Source	Temperature Corr
Temp. for Rm Corr.	MGS External Temperature
Squasher Start	0.0060 mhos/metre
Squasher Offset	N/A 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
Source for Rt	0.00	
Source for Rxo	0.00	

High Resolution Temperature Calibration MAI-B.J 390

Field Calibration on 07-NOV-2011 02:31

	Measured	Calibrated(Deg F)
Lower	50.00	50.00

DOWNHOLE EQUIPMENT

C:\Data\SANDRIDGE POWERS 1-2H\POWERS 1-2H RTAP.dta

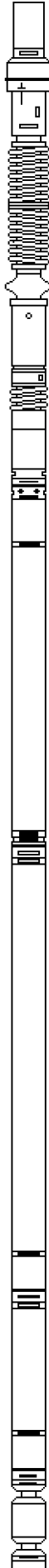
Shuttle Mechanical Release (SMR A)
SMR-A 166 LG: 8.53 ft WT: 77.2 lb OD: 2.52 in

Shuttle Electrical Release
SER-B.A 159 LG: 6.90 ft WT: 50.7 lb OD: 2.24 in

MBS-G.A 200v Compact Battery Sub
MBS-G.A 113 LG: 16.66 ft WT: 132.3 lb OD: 2.24 in

Compact Memory Sub E.B
MMS-E.B 166 LG: 5.20 ft WT: 37.5 lb OD: 2.24 in

SKJ-E.B Compact Knuckle Joint
SKJ-E.B 458 LG: 2.17 ft WT: 24.3 lb OD: 2.24 in



Spacer - Empty Battery
MLK-A 2 LG: 14.23 ft WT: 30.9 lb OD: 2.24 in

SKJ-E.B Compact Knuckle Joint
SKJ-E.B 457 LG: 2.17 ft WT: 24.3 lb OD: 2.24 in

Compact Tool Isolator sub.
MTI-B.A 68 LG: 1.54 ft WT: 13.2 lb OD: 2.24 in

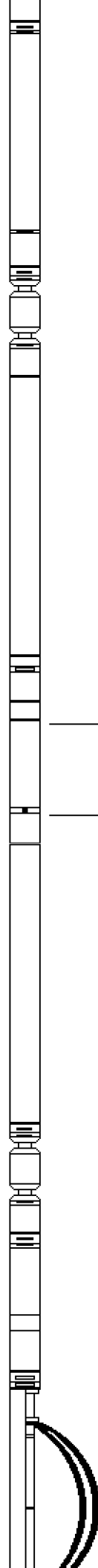
Compact Short Gamma
MGS-C.J 142 LG: 3.41 ft WT: 24.3 lb OD: 2.24 in

Compact Collar Locator
MCL-B.J 63 LG: 3.17 ft WT: 26.5 lb OD: 2.24 in

SKJ-E.B Compact Knuckle Joint
SKJ-E.B 479 LG: 2.17 ft WT: 24.3 lb OD: 2.24 in

SHA-J.A Compact Swivel Head Adaptor
SHA-J.A 431 LG: 2.30 ft WT: 22.0 lb OD: 2.24 in

MIS-D.B Compact Inline Bowspring sub
MIS-D.B 606 LG: 5.70 ft WT: 33.1 lb OD: 2.24 in



87.87 ft GRGM - MGS Gamma Ray

85.89 ft GSXT - MGS External Temperature

Compact Neutron
MDN-B.J 388 LG: 5.04 ft WT: 50.7 lb OD: 2.24 in

Compact Density/Caliper
MPD-B 166 LG: 9.59 ft WT: 90.4 lb OD: 2.45 in

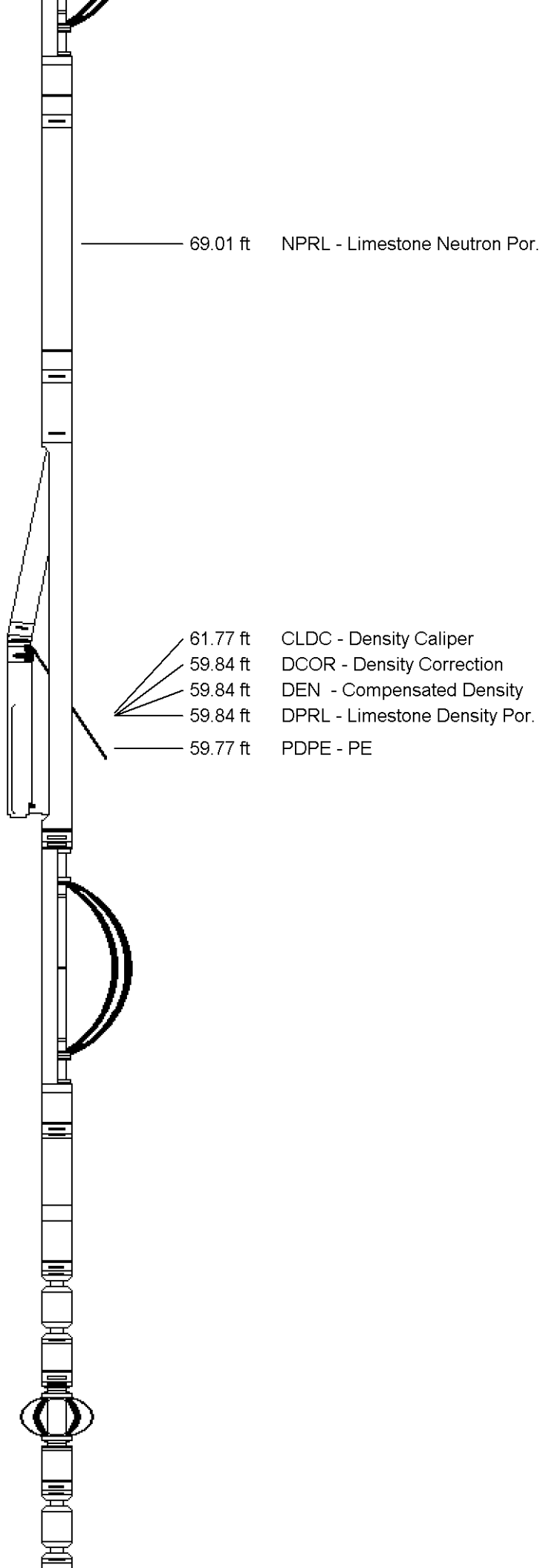
MIS-A.A Compact Inline Bowspring sub
MIS-A.A 275 LG: 5.70 ft WT: 33.1 lb OD: 2.24 in

SHA-J.A Compact Swivel Head Adaptor
SHA-J.A 434 LG: 2.30 ft WT: 22.0 lb OD: 2.24 in

SKJ-E.B Compact Knuckle Joint
SKJ-E.B 474 LG: 2.17 ft WT: 24.3 lb OD: 2.24 in

MIS-E.B Compact Inline Standoff sub
MIS-E.B 575 LG: 2.14 ft WT: 15.4 lb OD: 2.24 in

SKJ-E.B Compact Knuckle Joint
SKJ-E.B 478 LG: 2.17 ft WT: 24.3 lb OD: 2.24 in



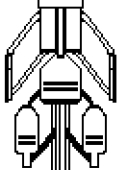
MIS-D.B Compact Inline Bowspring sub
MIS-D.B 593 LG: 5.70 ft WT: 33.1 lb OD: 2.24 in



Compact MMI Memory Section
MIM-A.A 157 LG: 4.65 ft WT: 26.5 lb OD: 2.24 in



Compact MMI Electrode Section
MIE-A.J 233 LG: 13.96 ft WT: 99.2 lb OD: 4.09 in



MIS-D.B Compact Inline Bowspring sub
MIS-D.B 698 LG: 5.70 ft WT: 33.1 lb OD: 2.24 in



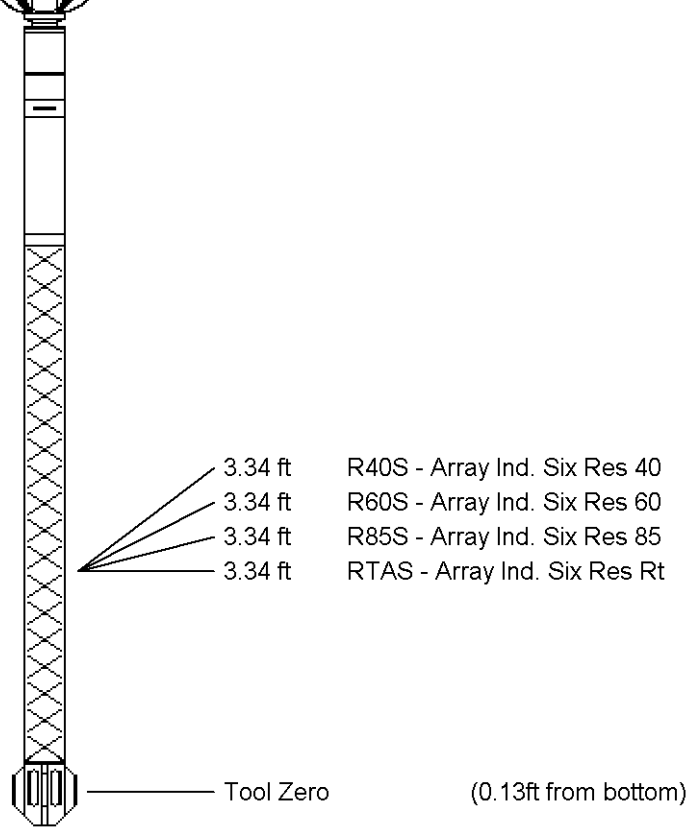
MIS-E.B Compact Inline Standoff sub



MIS-E.B 595 LG: 2.14 ft WT: 15.4 lb OD: 2.24 in

Compact Induction

MAI-B.J 390 LG: 10.81 ft WT: 48.5 lb OD: 2.24 in



Total Length: 146.19 ft Weight: 1036.2 lb

All measurements relative to tool zero.

COMPANY	SANDRIDGE ENERGY, INC,
WELL	POWERS 1-2H
FIELD	FORD
PROVINCE/COUNTY	FORD
COUNTRY/STATE	U.S.A. / KANSAS

Elevation Kelly Bushing	2373.00	feet	First Reading	9075.00	feet
Elevation Drill Floor	2372.00	feet	Depth Driller	9182.00	feet
Elevation Ground Level	2355.00	feet	Depth Logger	9182.00	feet



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 COMPACT PHOTO DENSITY
 COMPENSATED NEUTRON