

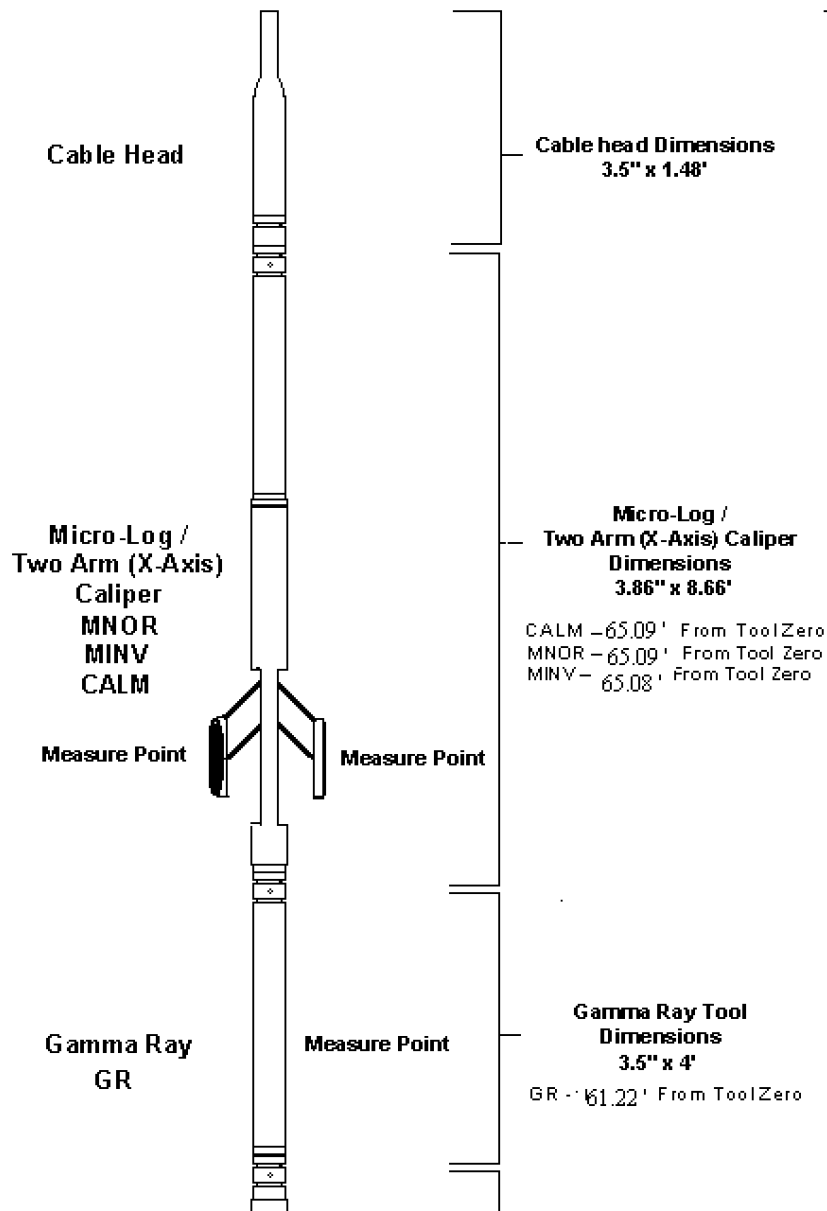
CEMENT VOLUME CALCULATIONS SUMMARY

Tool Type	LDT-CNT	Caliper Type		
Tool Serial #	RN2007 / RL4101			
	Borehole Total	Annular Volume with Casing	From Depth (MKb)	To Depth (MKb)
VOLUMES	1185.455 Cubic Feet	623.852 Cubic Feet	3400	TD 6796

CASING INFORMATION

	SIZE (in)	GRADE	WEIGHT (lbs/ft)	ID (in)	TOP DEPTH	BOT DEPTH
SURFACE CASING	8 5/8	J-55	24	8.097	Surface	1662
INTERMEDIATE CASING	N/A	N/A	N/A	N/A	N/A	N/A
PRODUCTION CASING	5 1/2	J-55	15.5	4.950	Surface	TD

DUAL INDUCTION – SP / BHC SONIC /
GAMMA RAY / LITHO-DENSITY / X CALIPER
COMPENSATED NEUTRON / Y-CALIPER
MICRO-LOG / M-CALIPER



Compensated Neutron
Y - Axis Caliper
NP (SS,LS,DL)
CALY

Compensated Neutron
Y-Axis Caliper
Dimensions
3.98" x 10.25'

CALY - 52.89' From ToolZero
CNL LS - 52.07' From ToolZero
CNL SS - 51.48' From ToolZero

Measure Point

Digital Telemetry

Digital Telemetry Section
Dimensions
3.5" x 3.15'

Compensated
Litho-Density (Pe)
X - Axis Caliper

Compensated Litho-Density
X-Axis Caliper
Dimensions
3.98" x 9.35'

DP(SS,LS,DL)
RHOB
DRHO
PE
CALX

CALX - 38.94' From ToolZero
LDT w1 -
LDT w2 -
LDT w3 -
LDT w4 -
-38.68' From ToolZero
LDT SS - 38.19' From ToolZero

Measure Point

Tool String
Length Total
73.64'

Borehole
Compensated
Sonic

T-1
Transmitter 1

Borehole Compensated Sonic
Tool Dimensions
3.5" x 15.75'

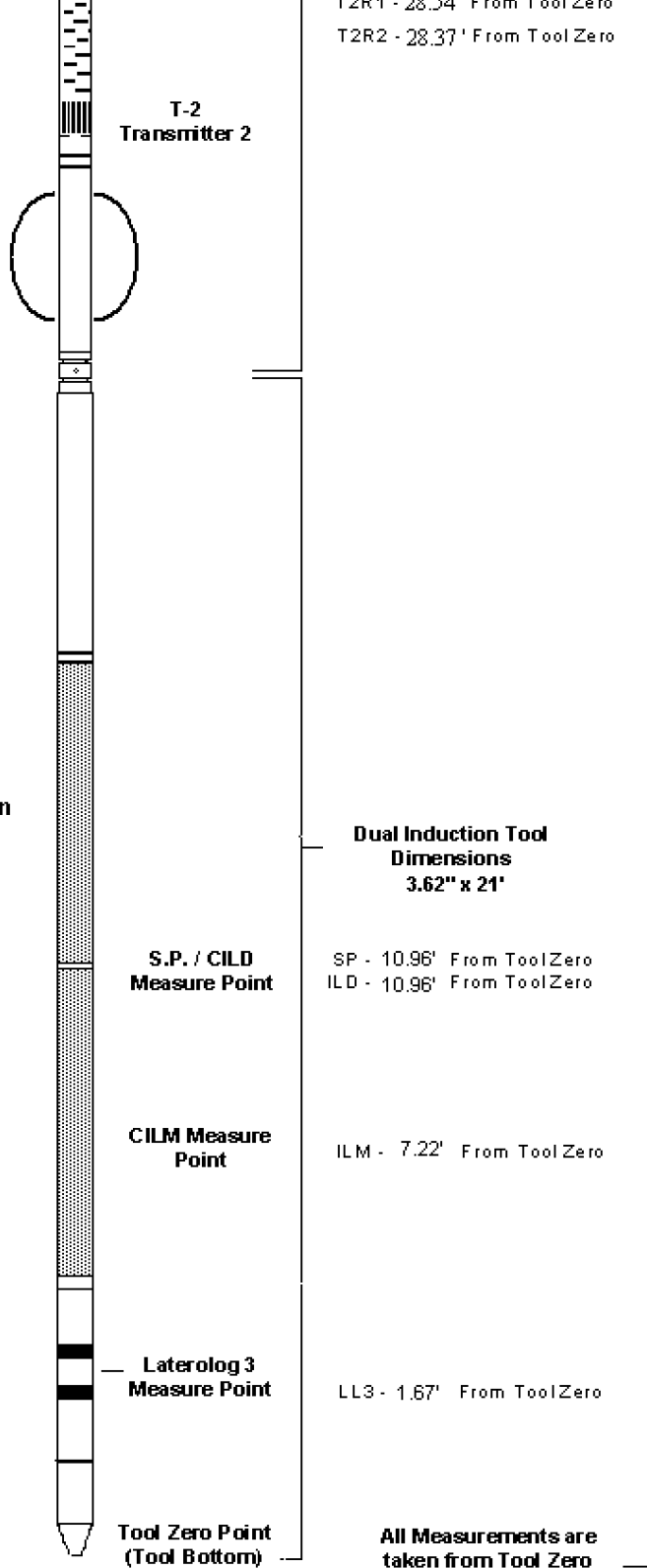
SP(SS,LS,DL)
DT
TTI
VDL
TT

T1R1 - 33.35' From ToolZero
T1R2 - 31.35' From ToolZero

Measure Point
Tool First Reading
Point

R-1
Receiver 1

R-2
Receiver 2

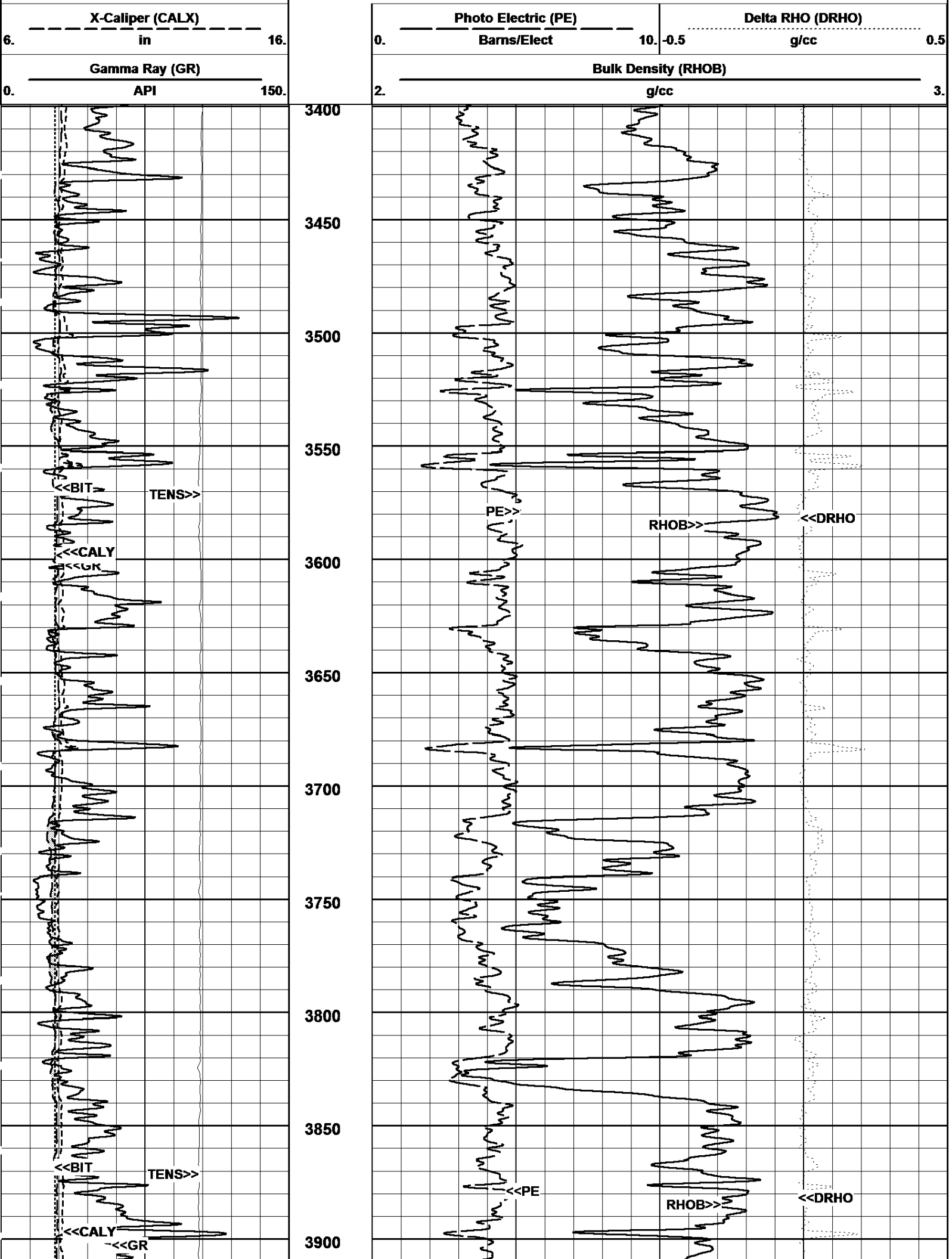


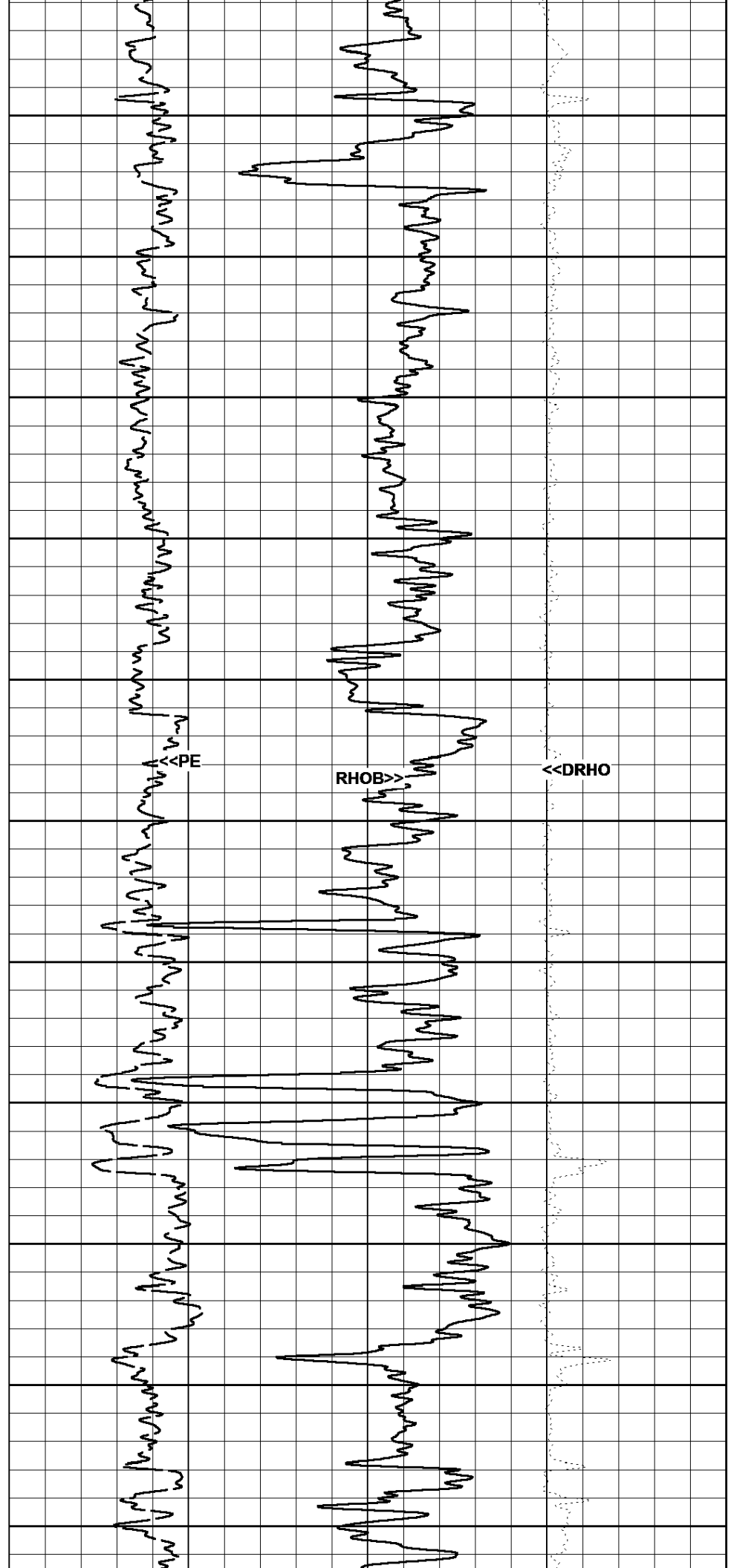
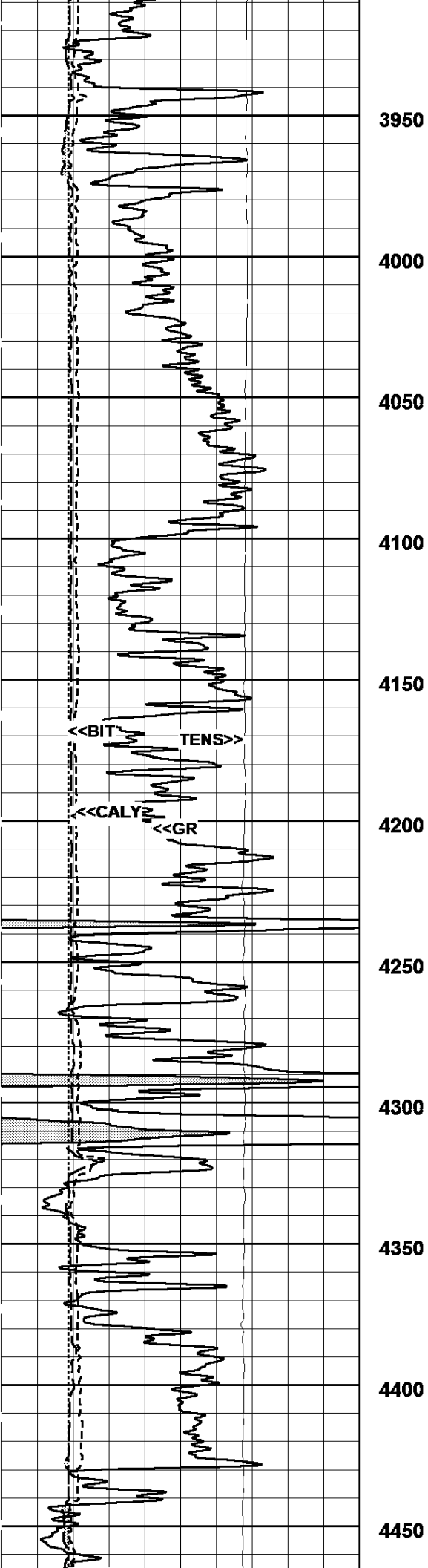
04/04/2013
01:25:28 => End Time

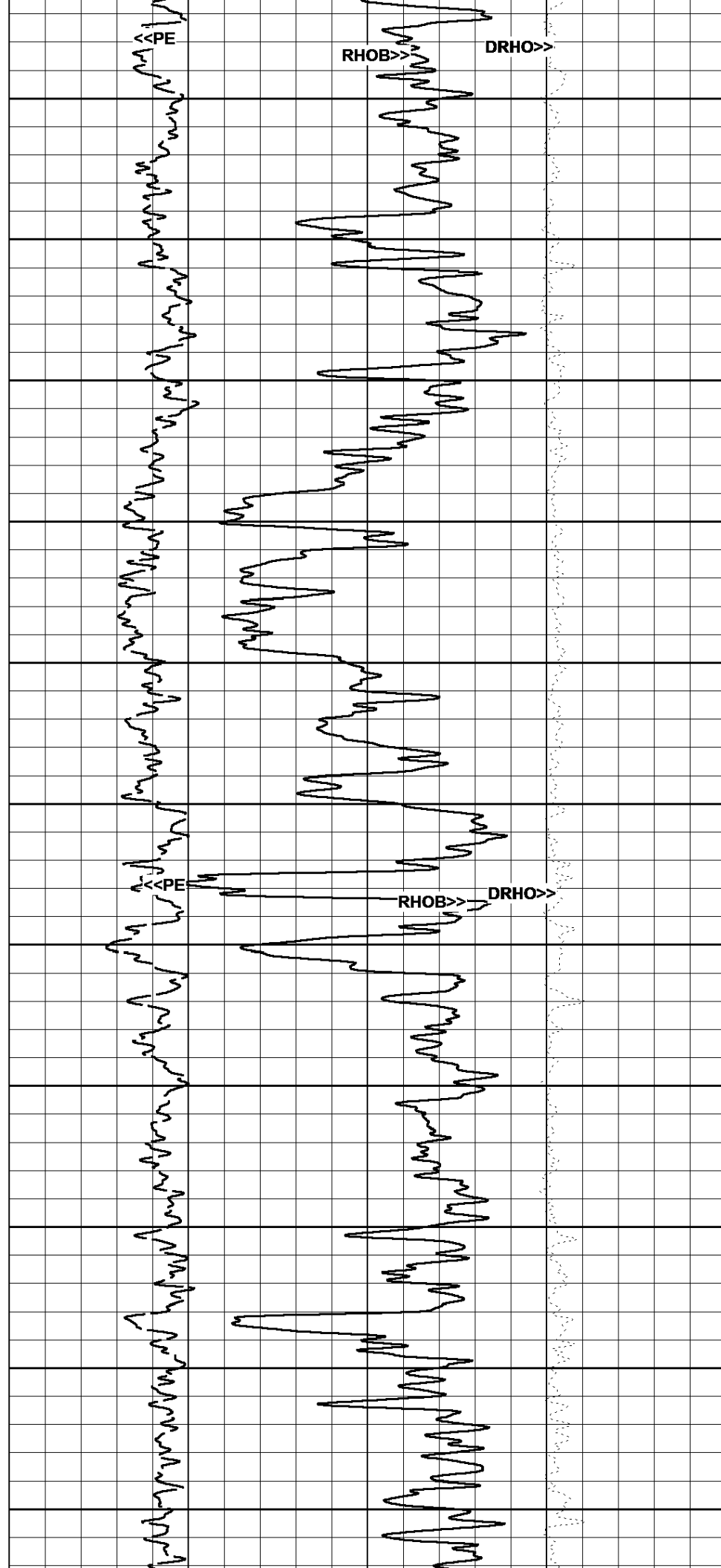
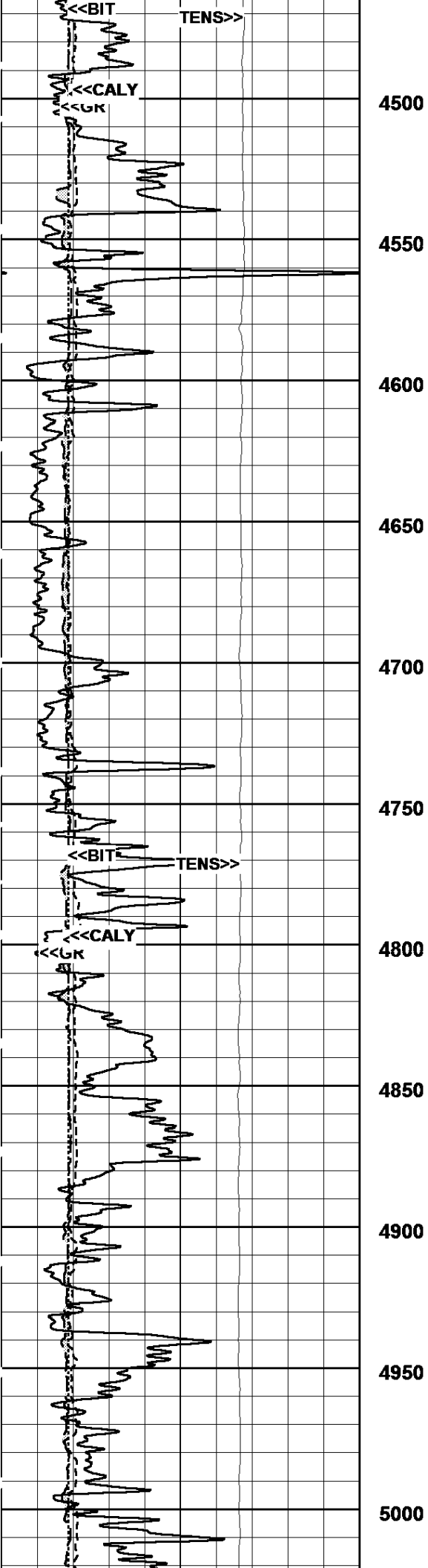
MAIN PASS - RHOB (2"/100Ft)

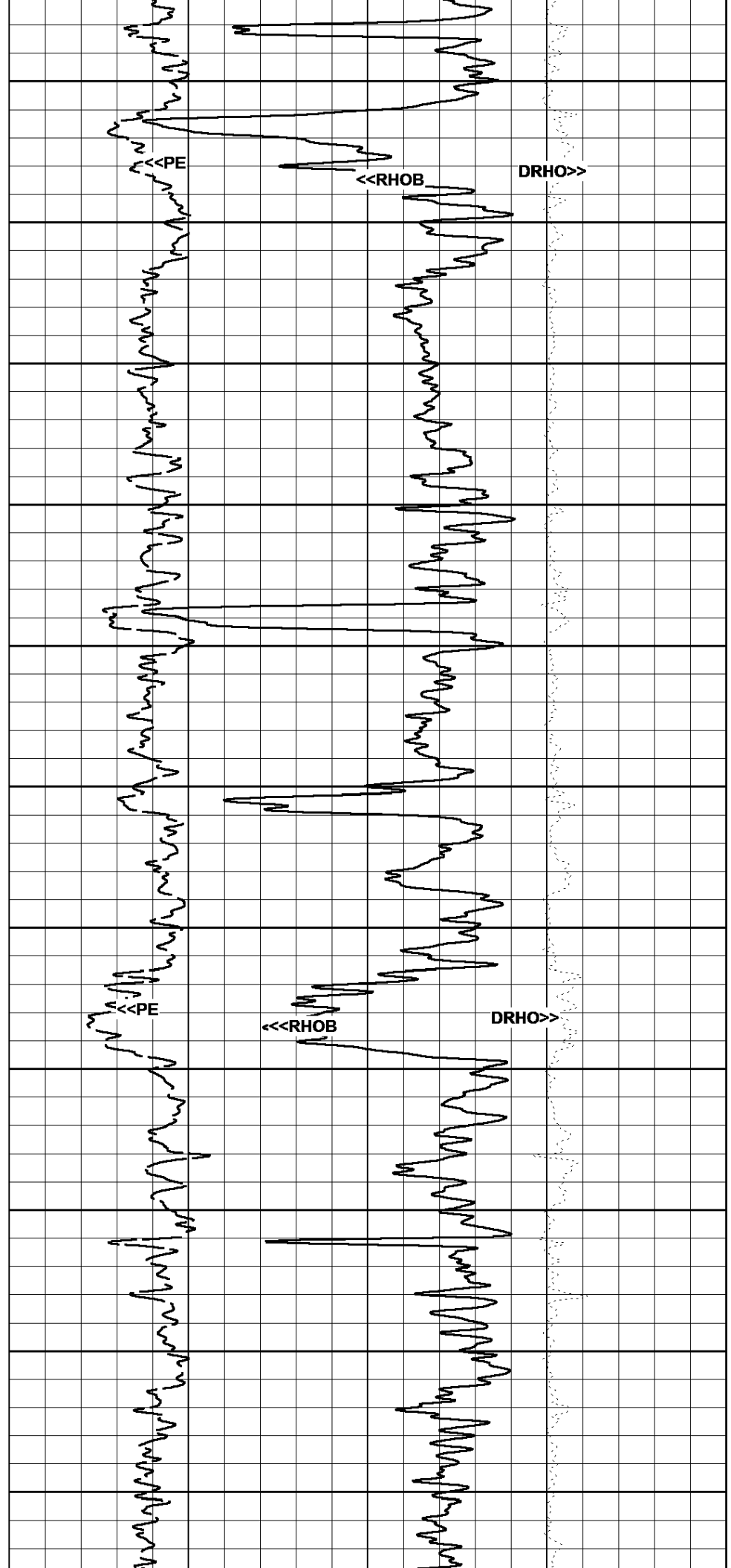
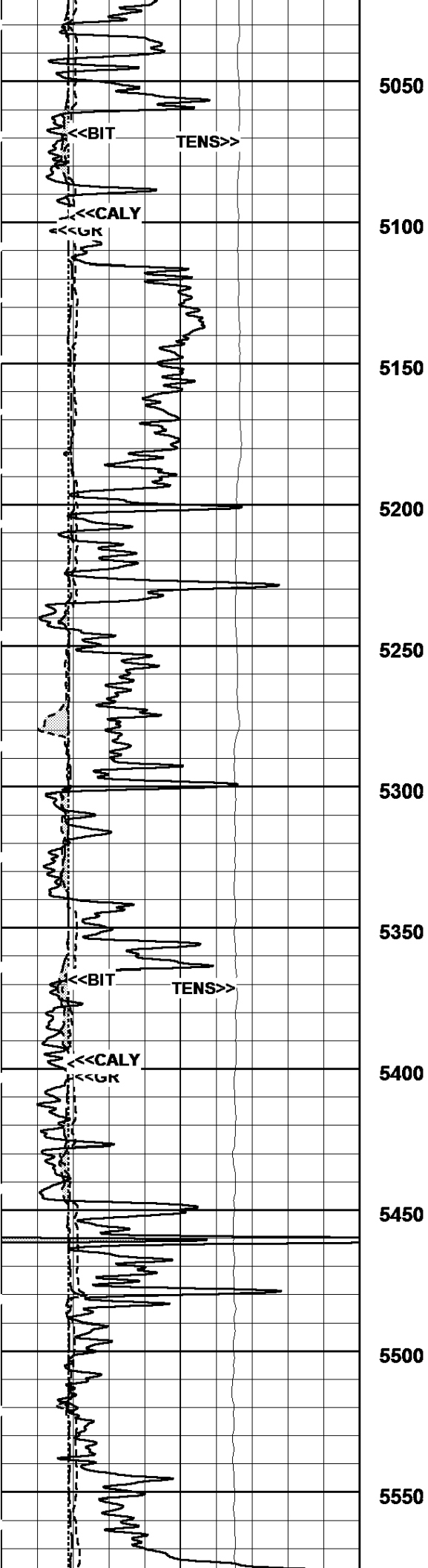
Log UP - (VER 11.08)
End Depth=> 3399.75 Feet

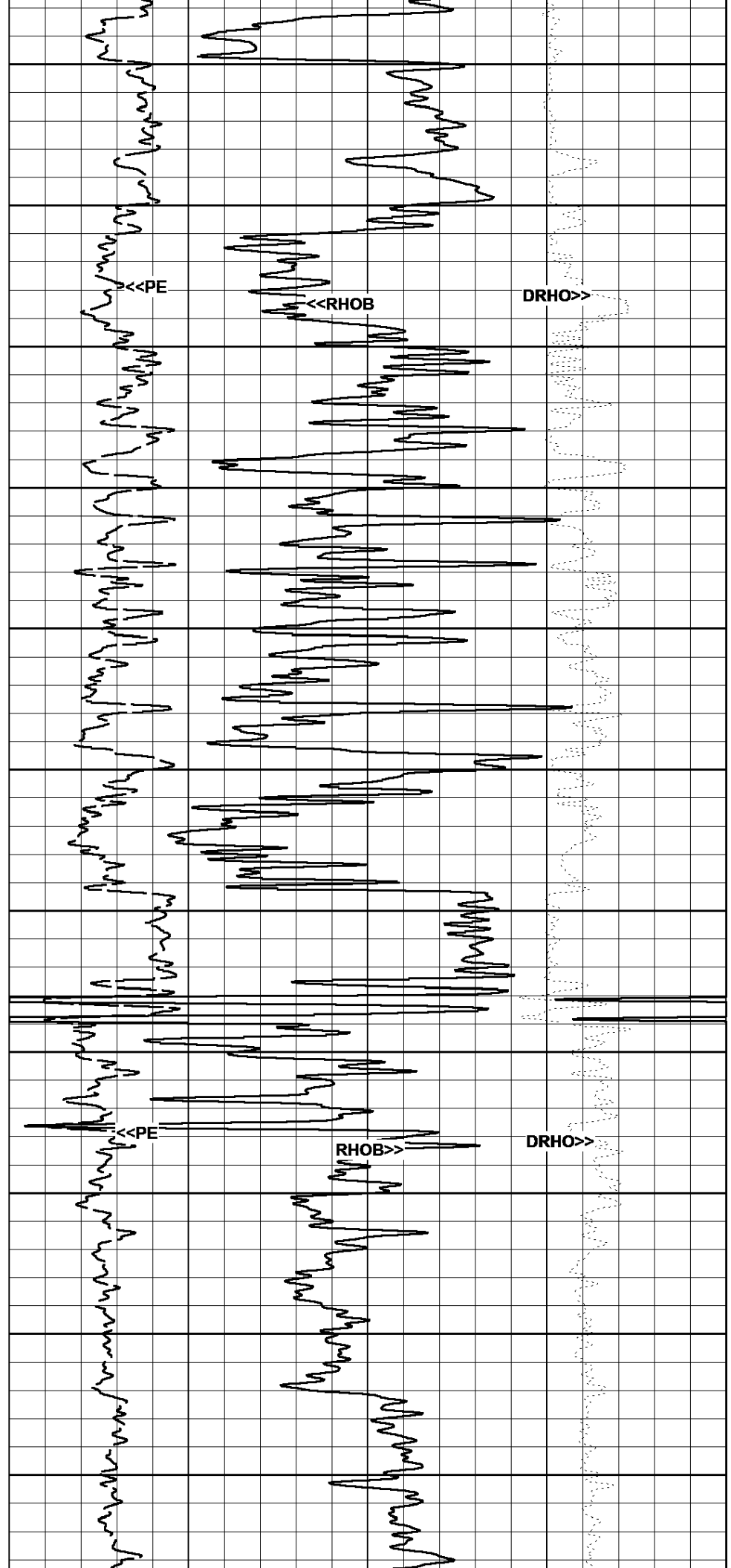
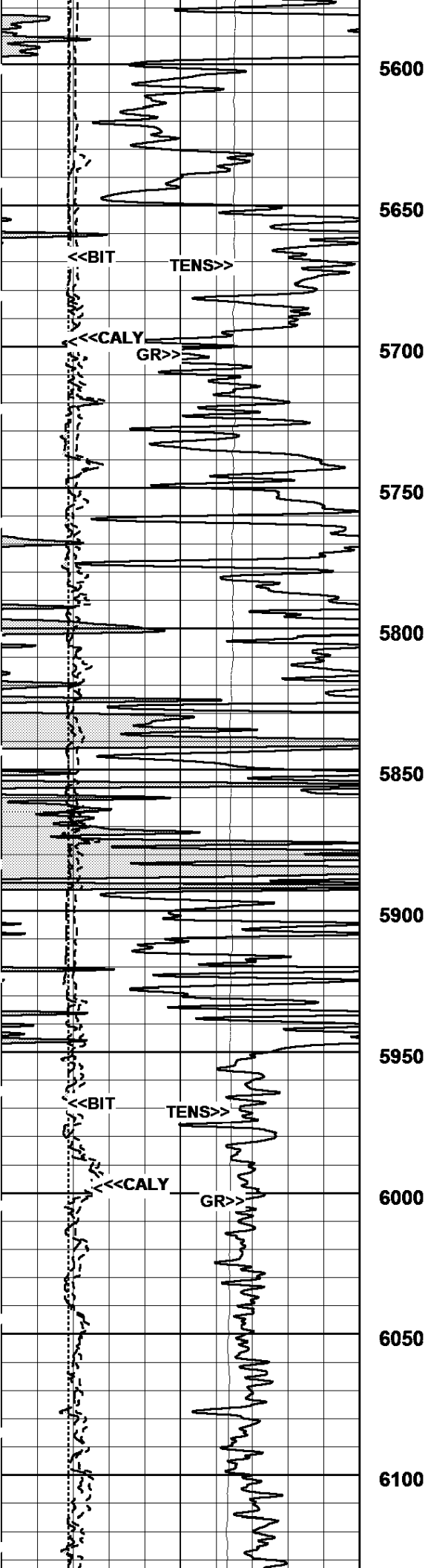
Bit Size (BIT)		
6.	Ref in	16.
Tension (TENS)		
10000.	Lbs	0.
Y-Caliper (CALY)		
6.	in	16.

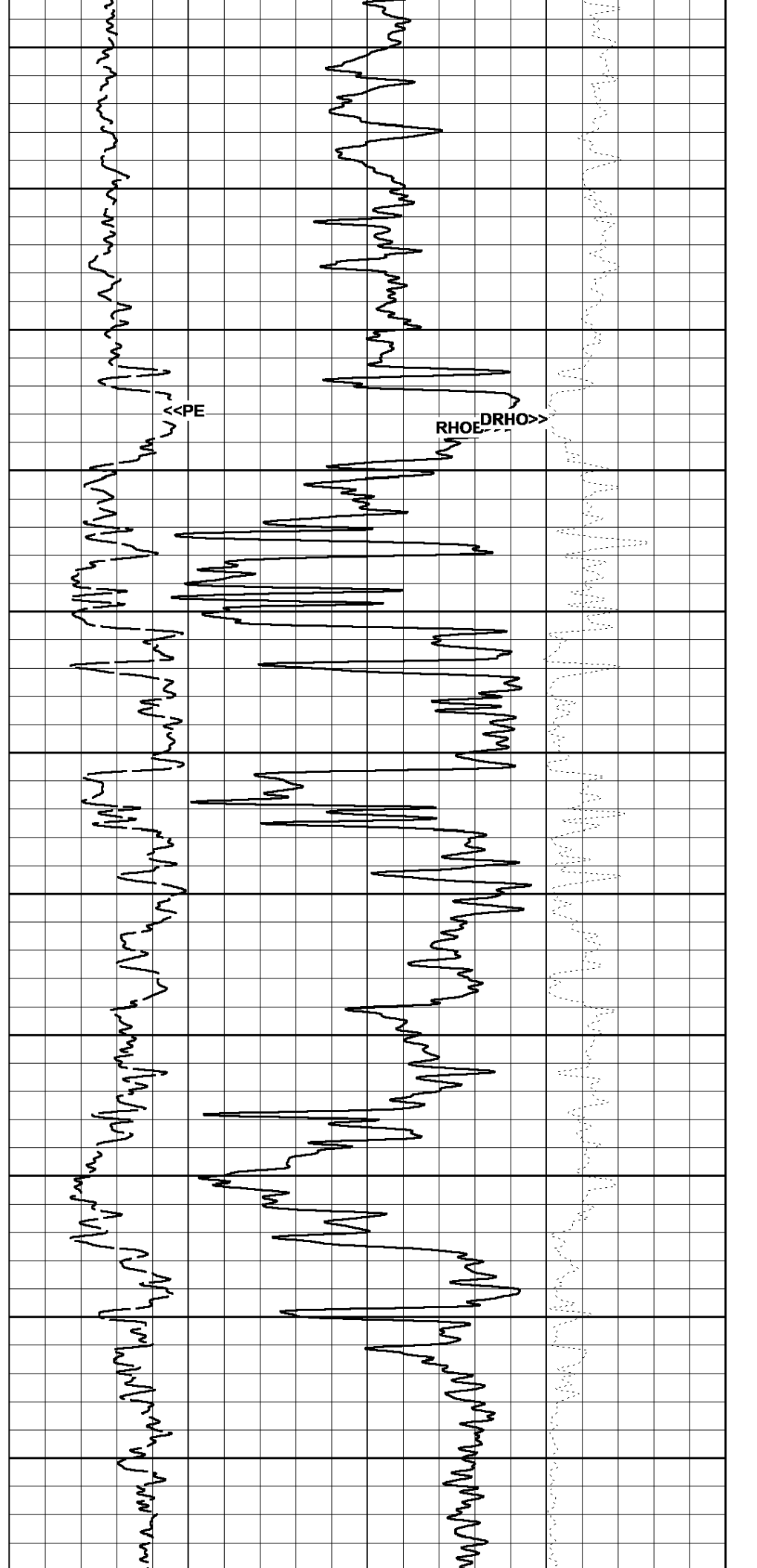
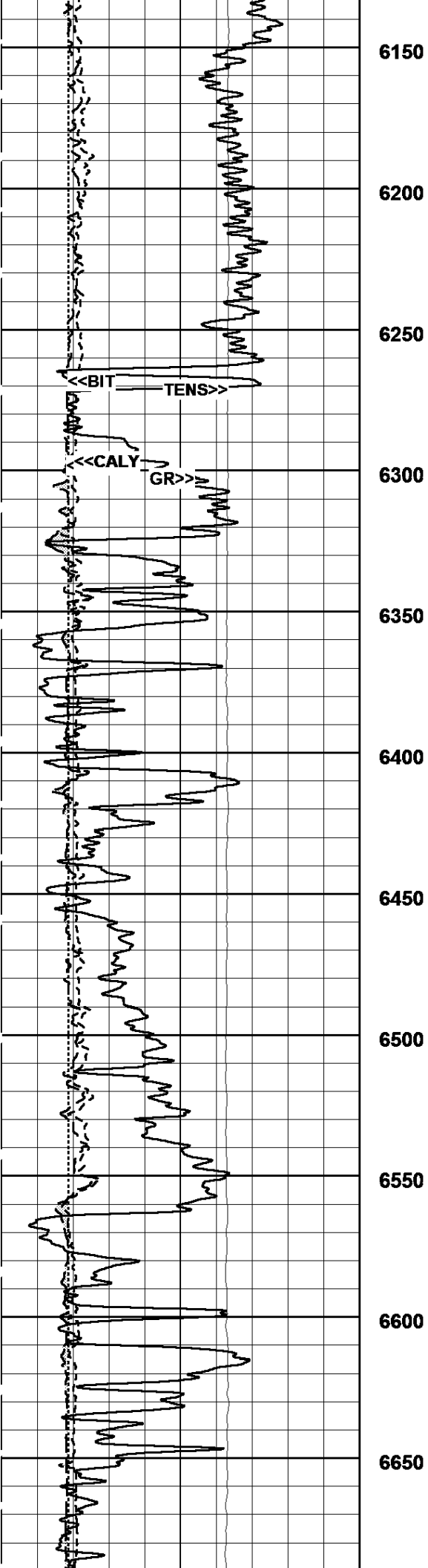


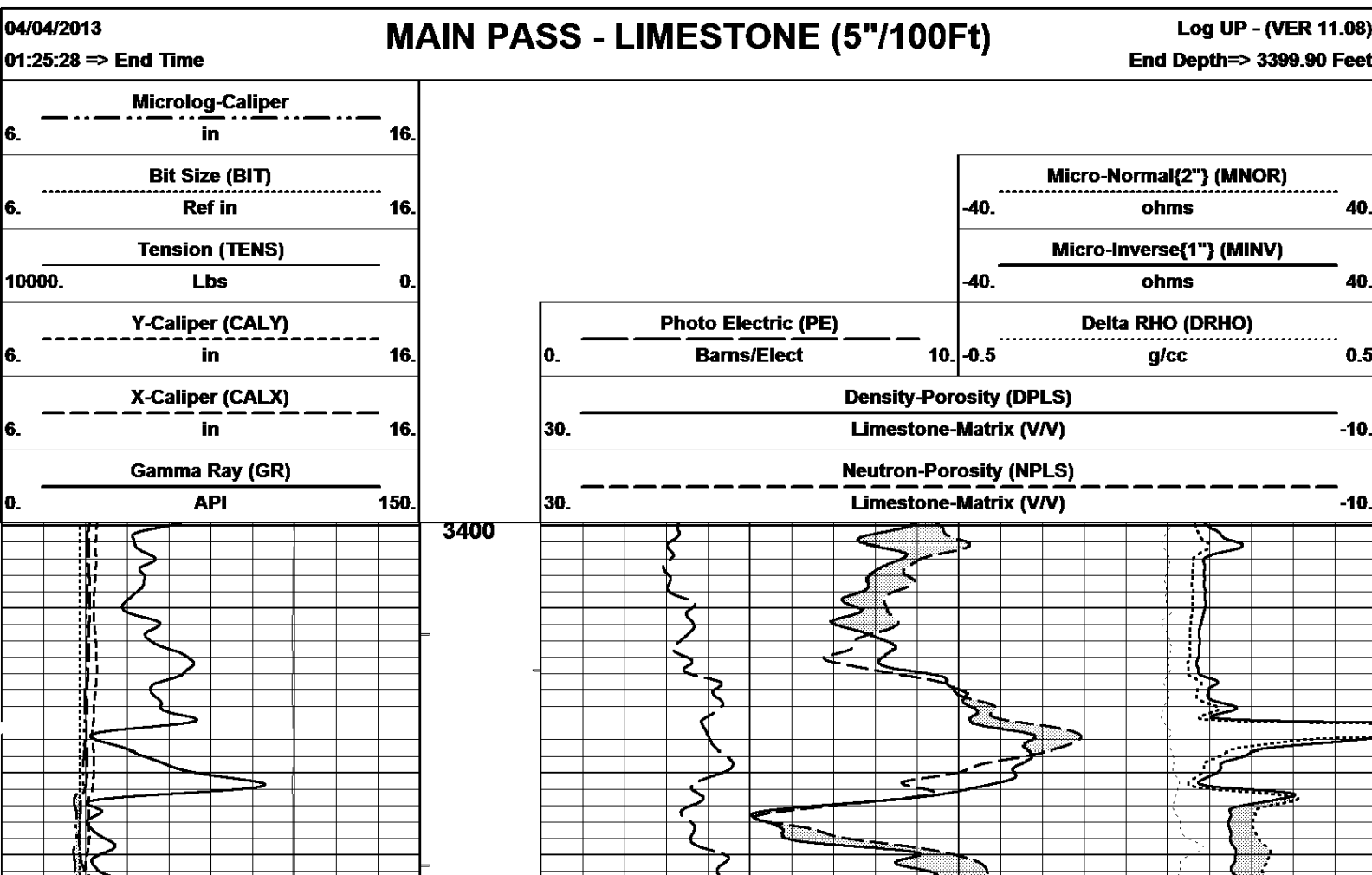
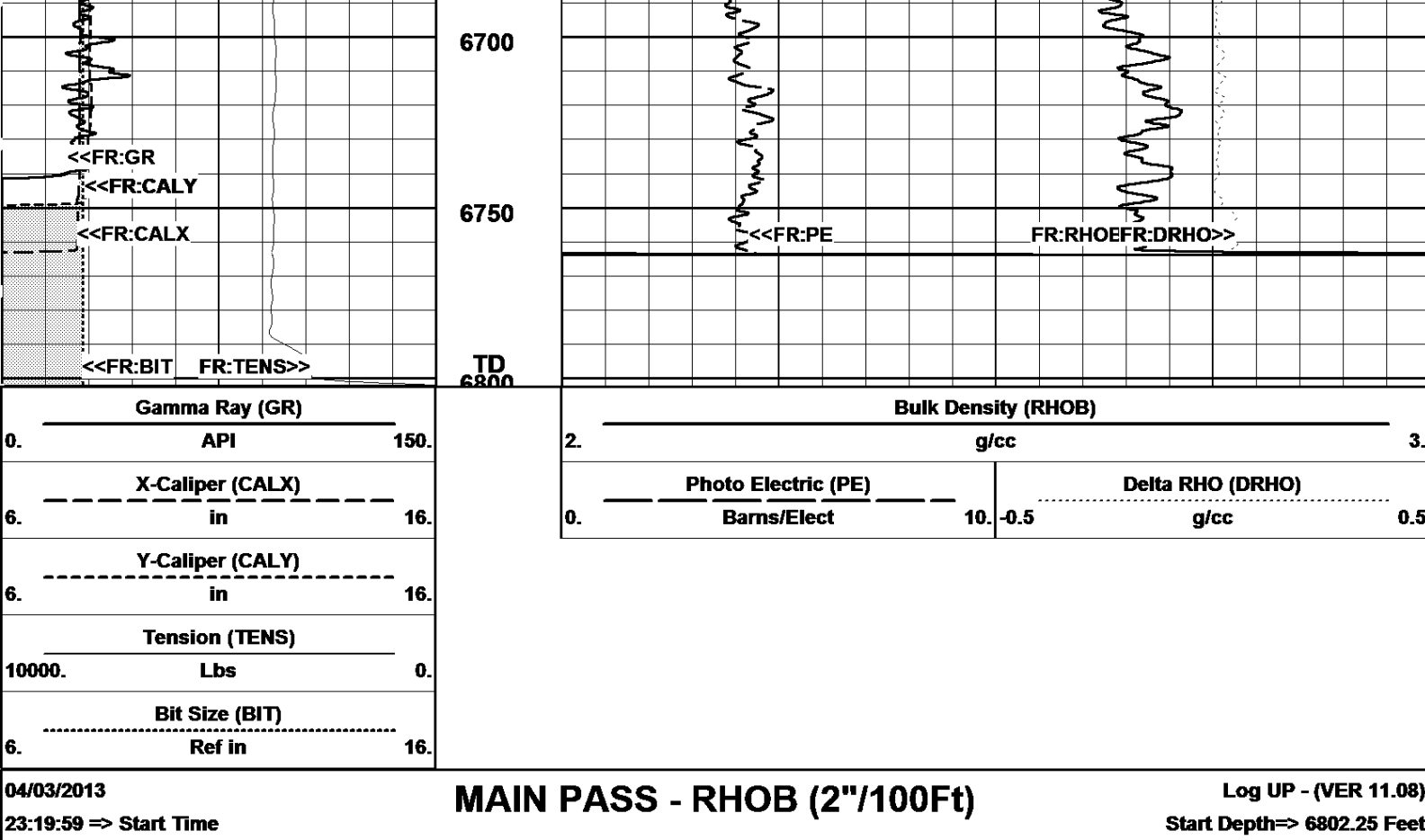


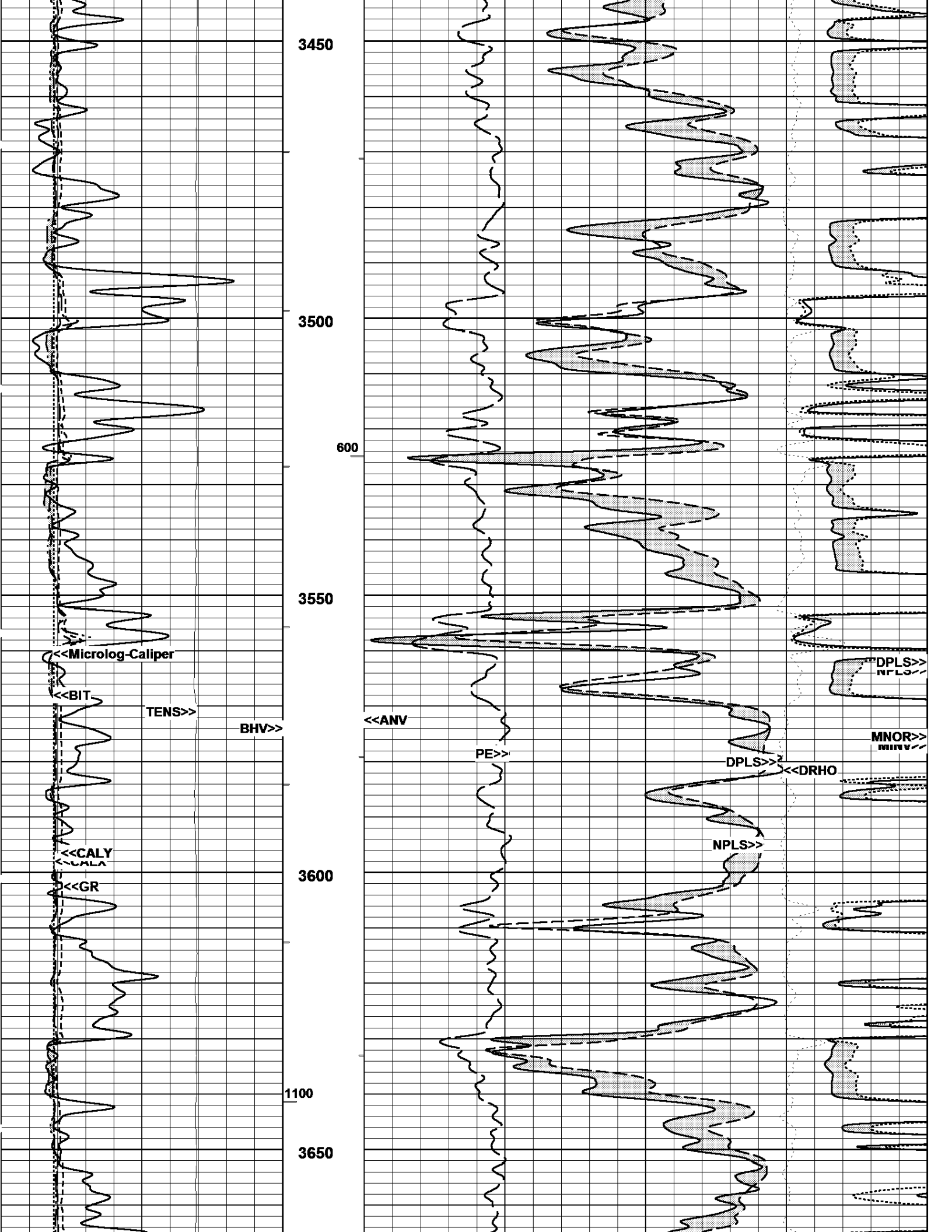


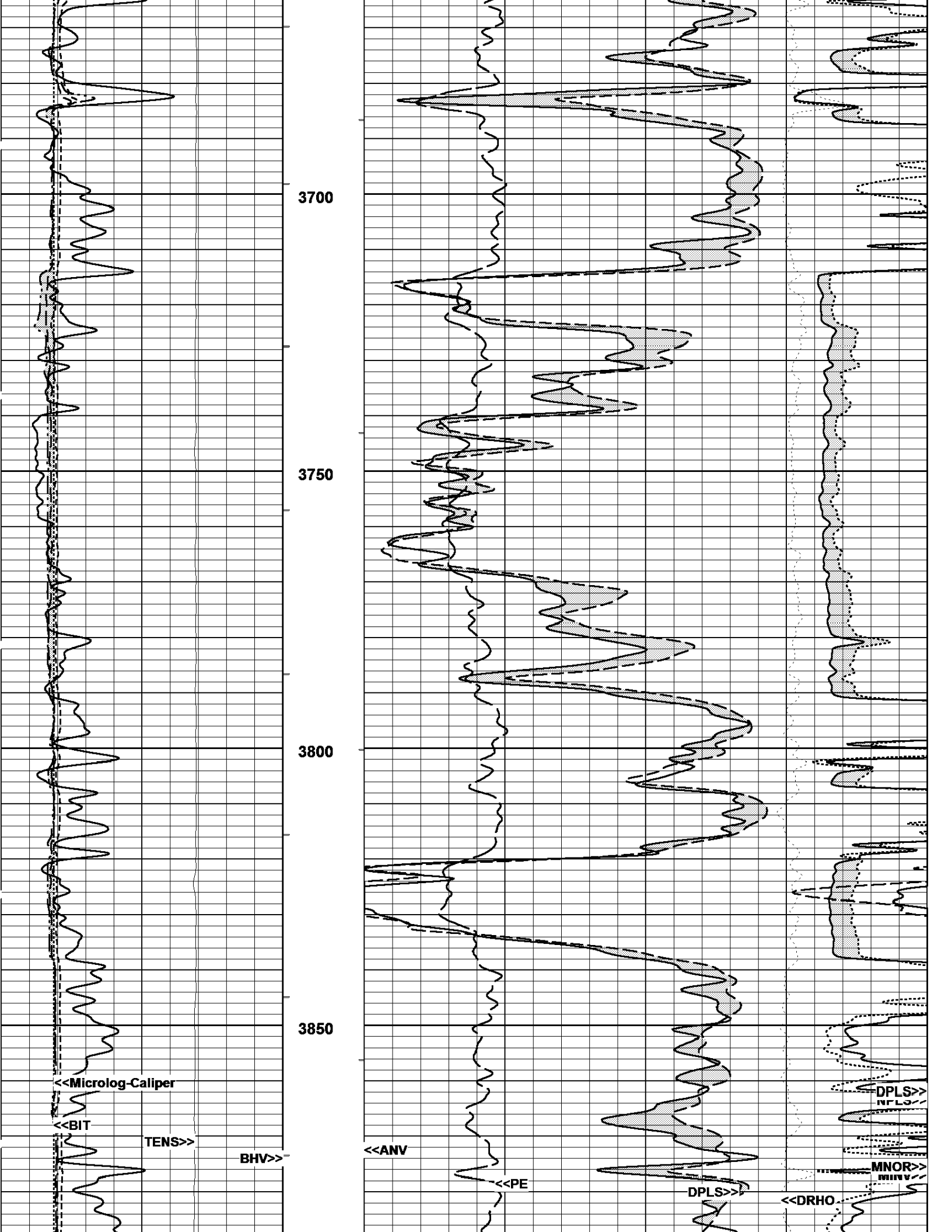


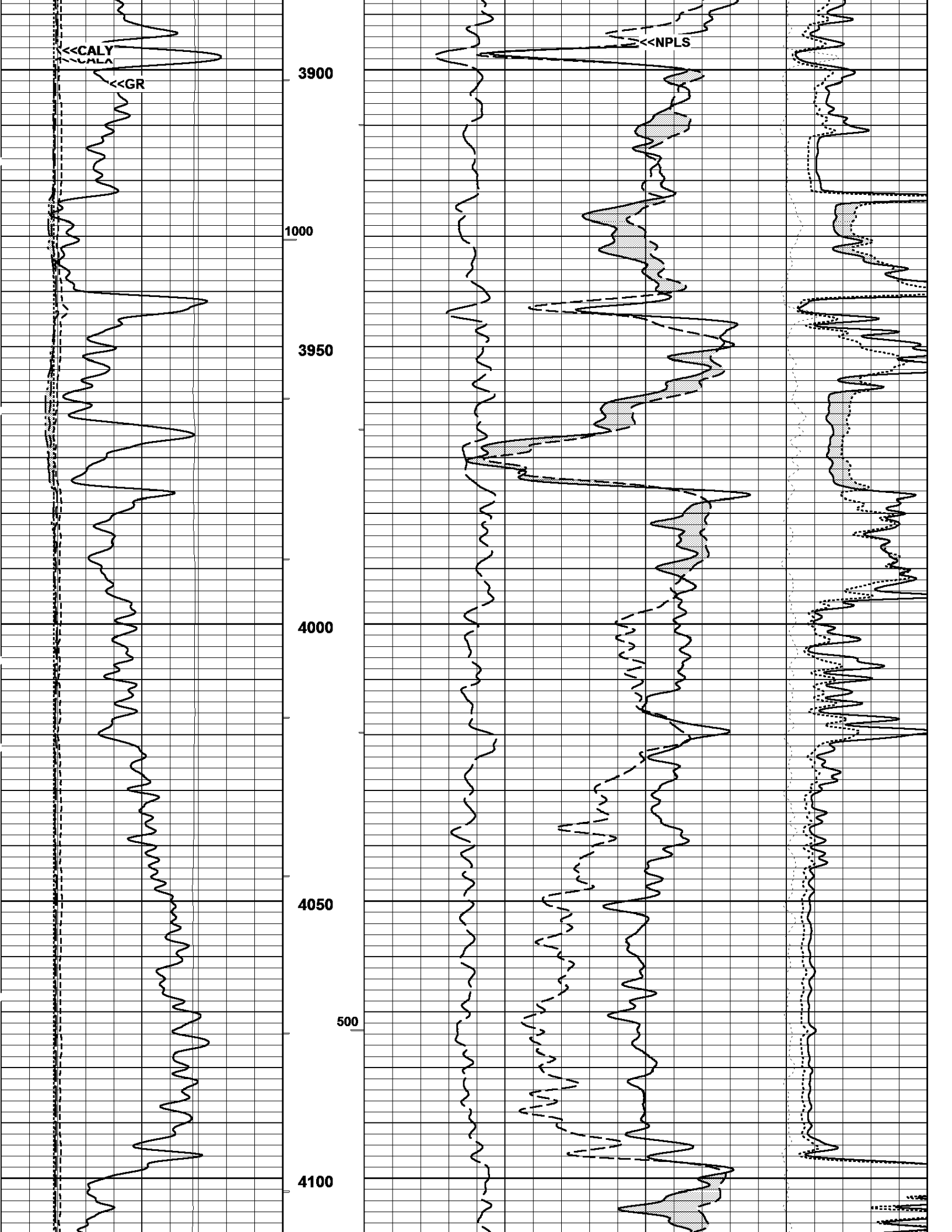


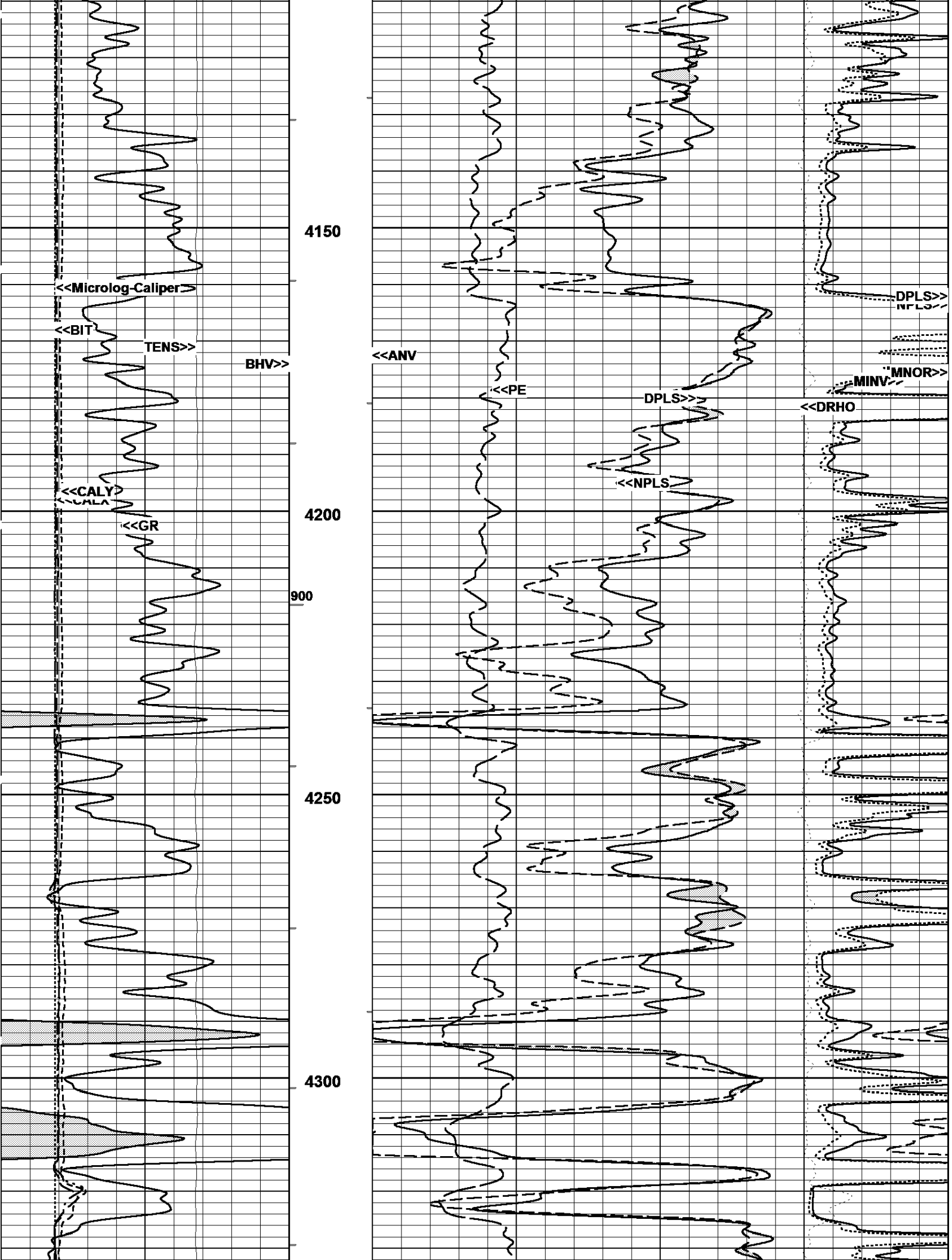


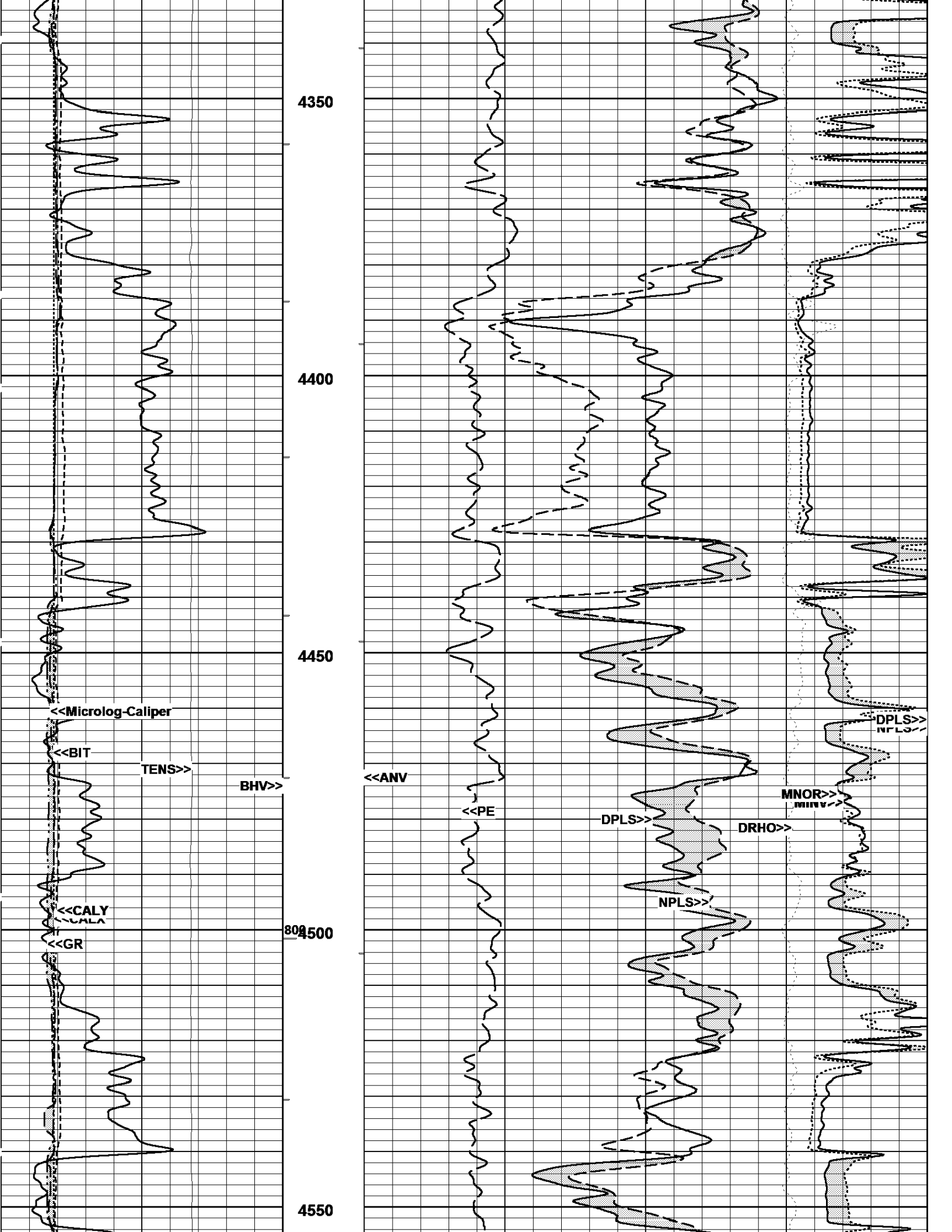


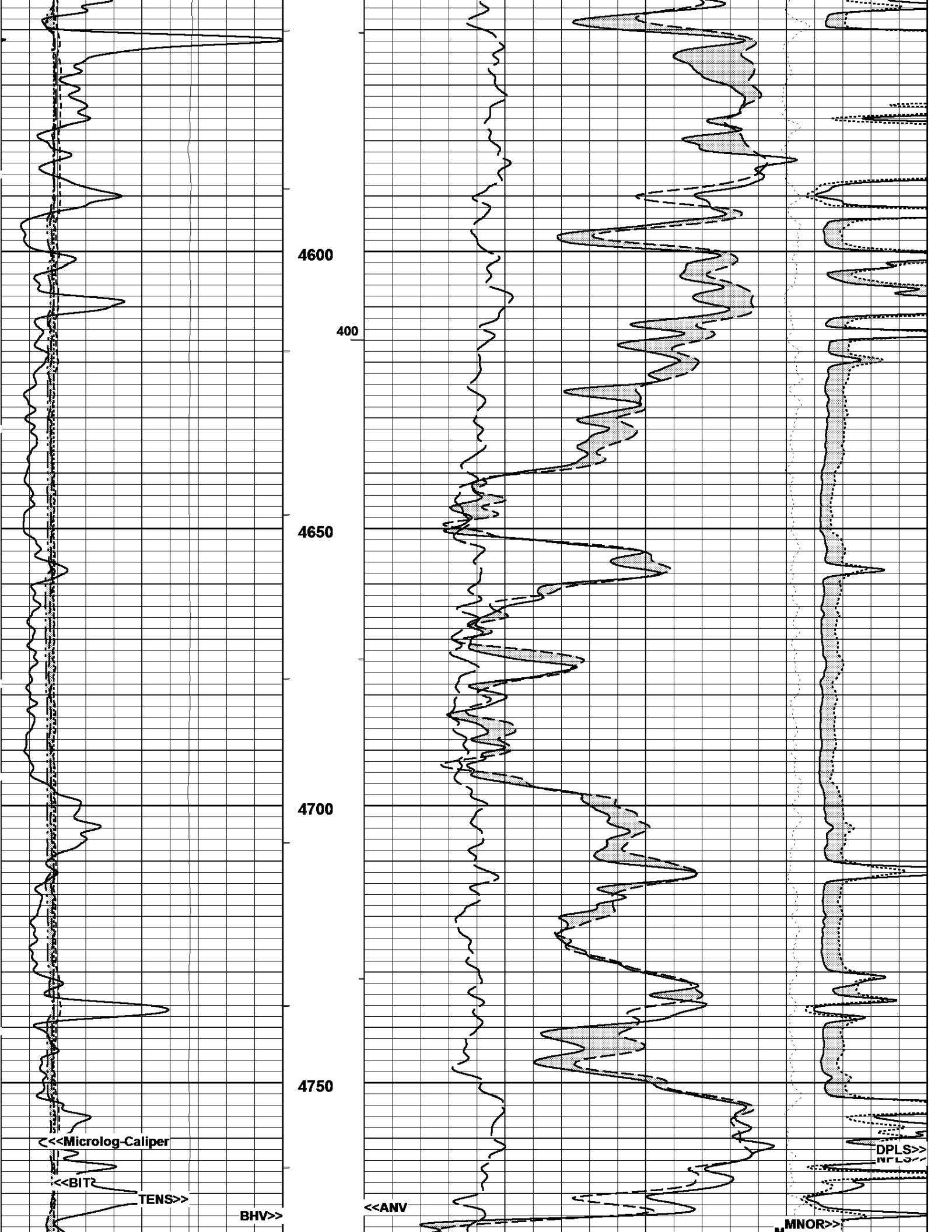


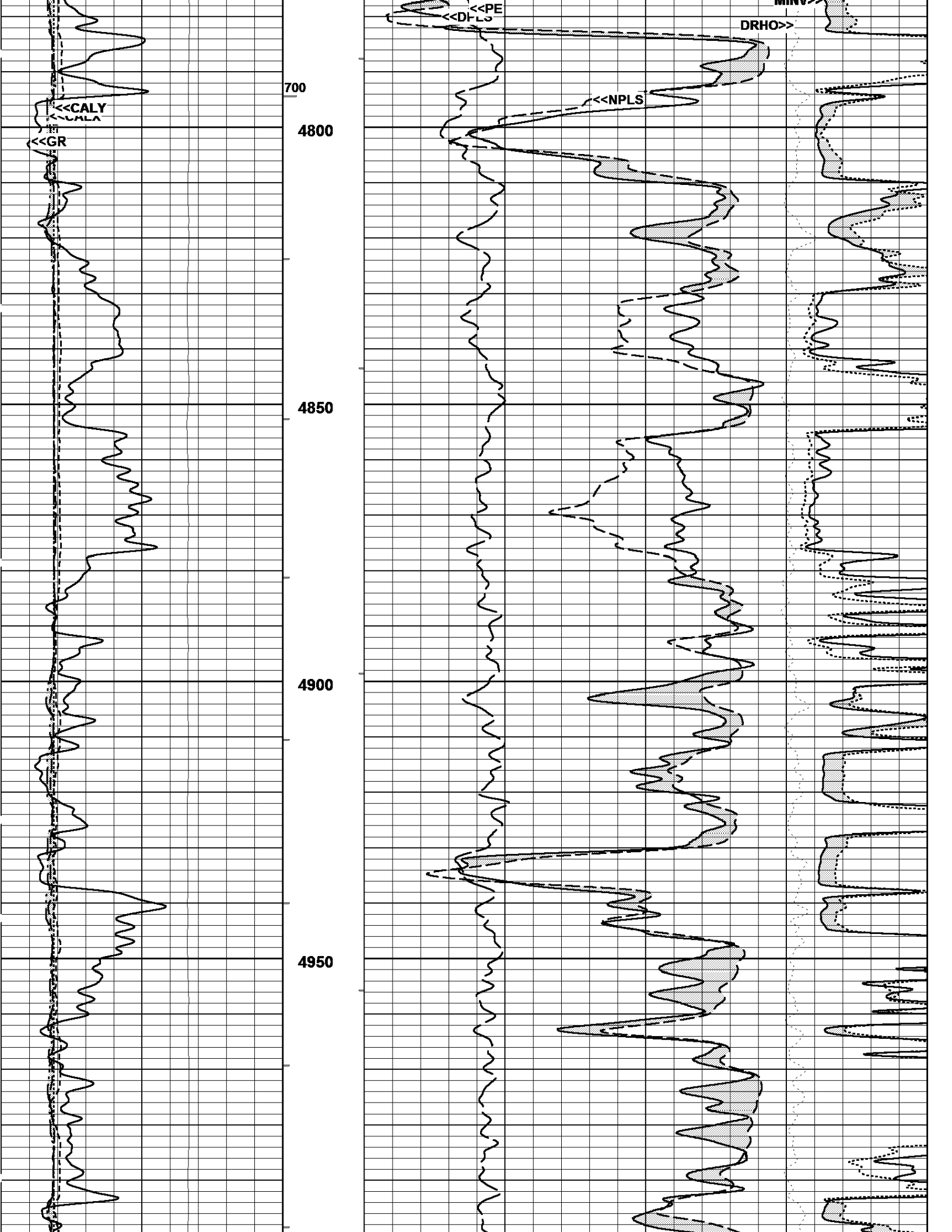


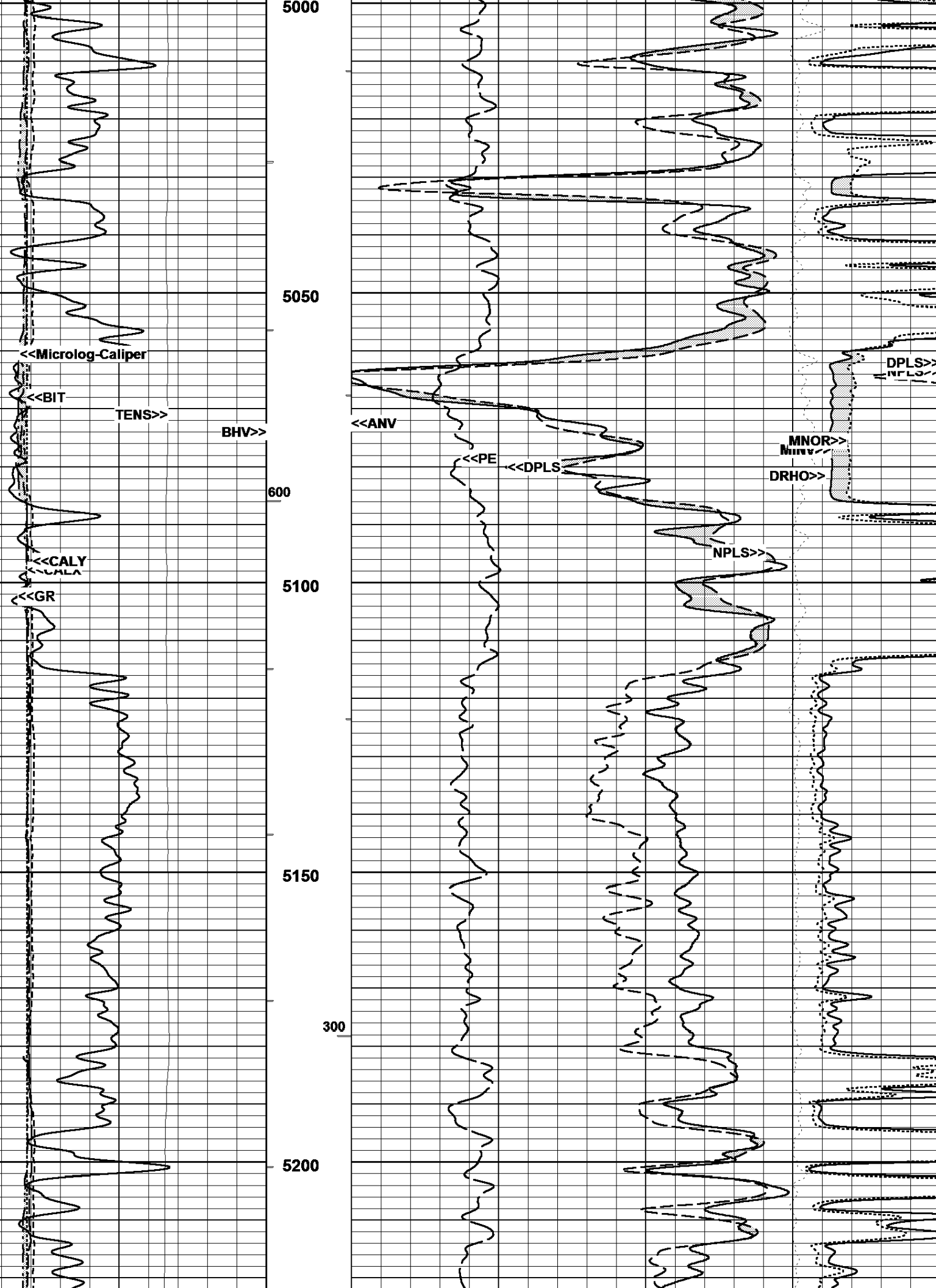


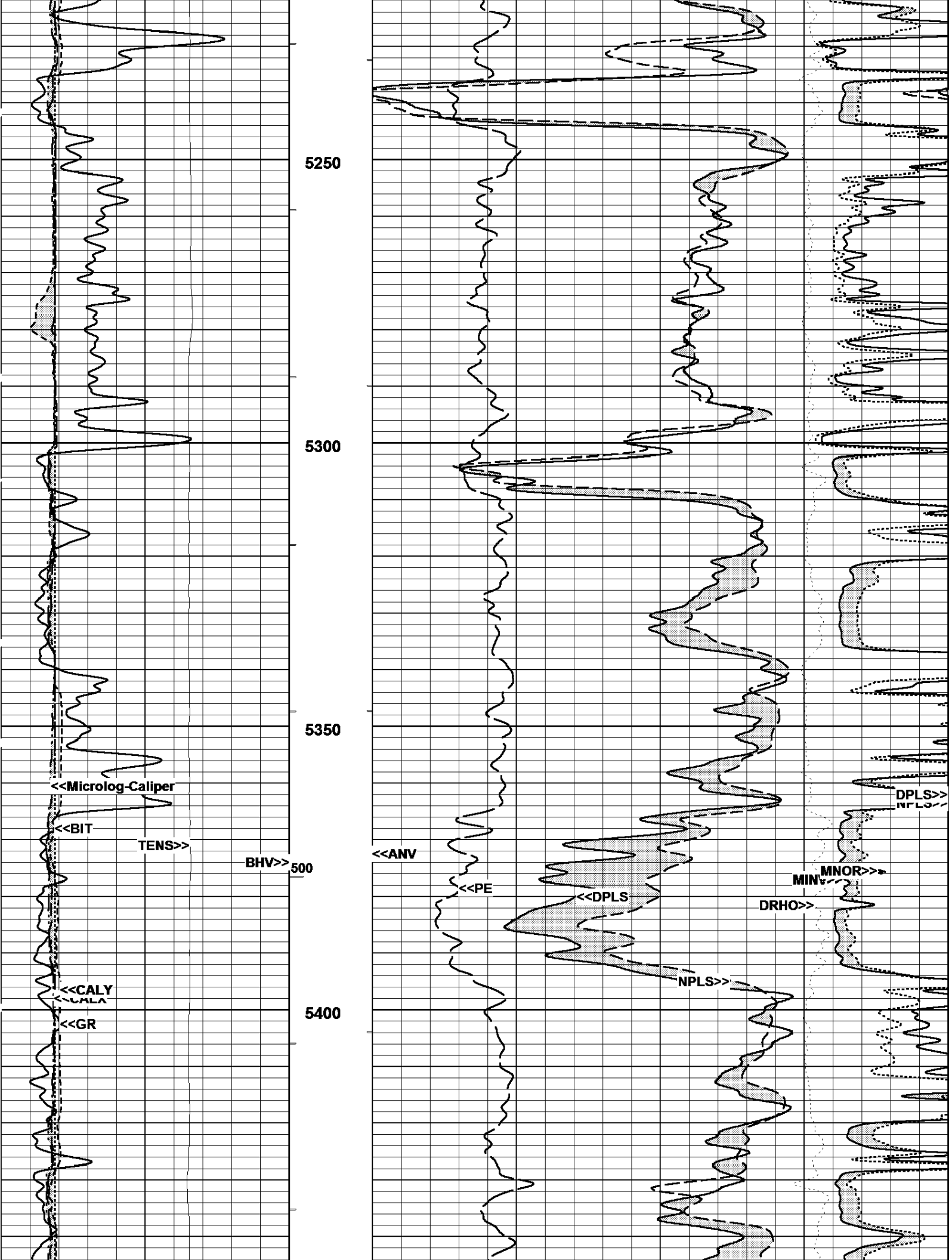


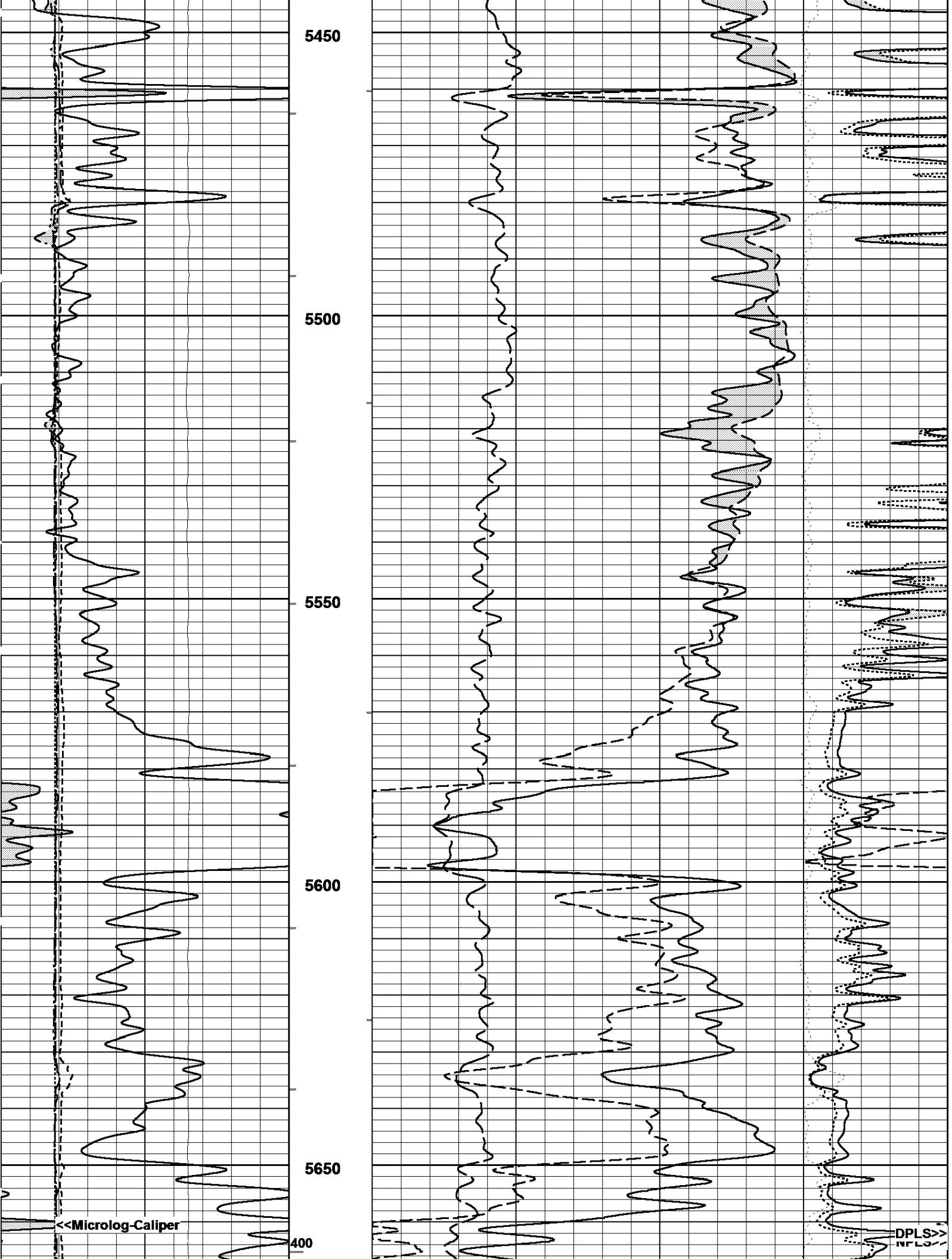


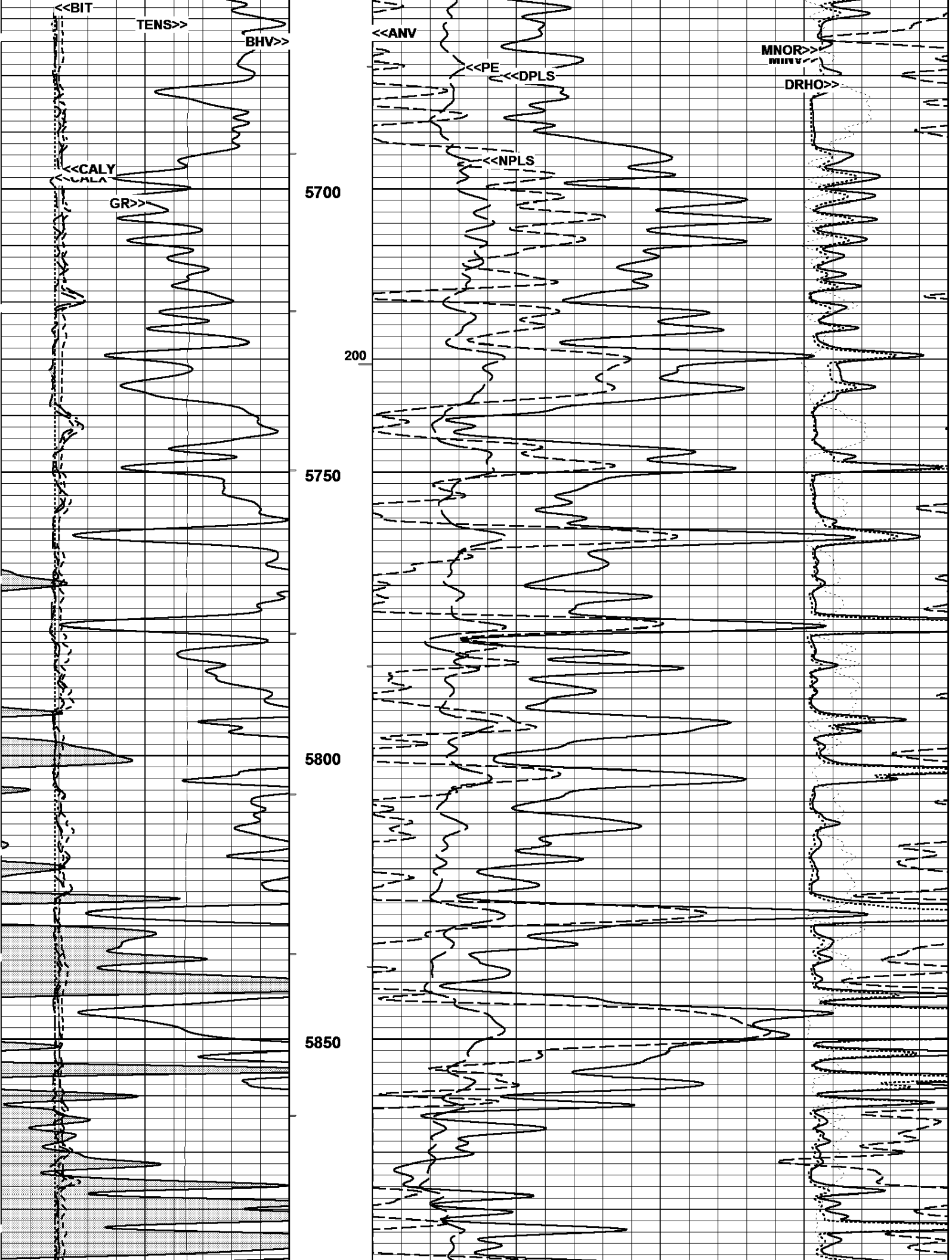


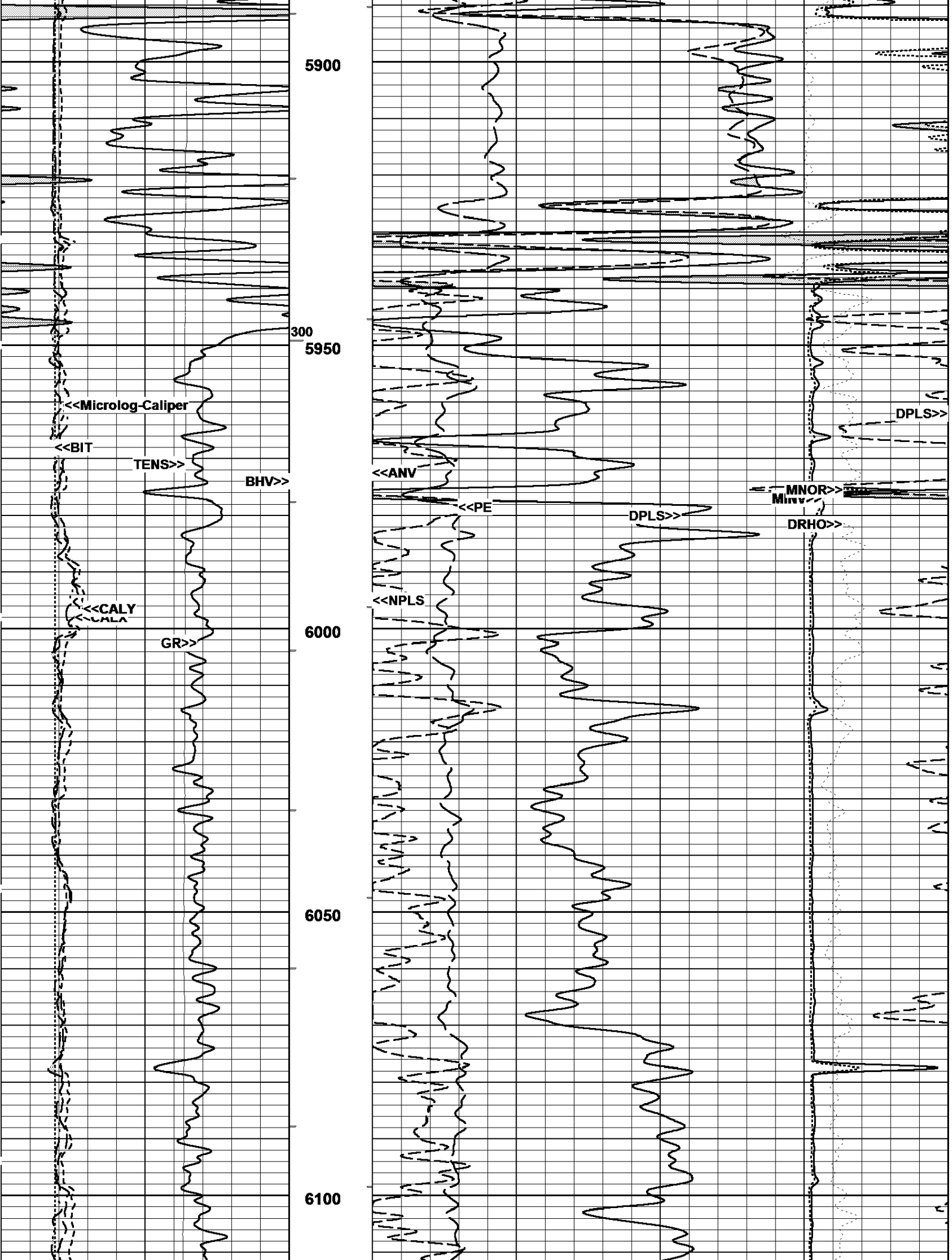


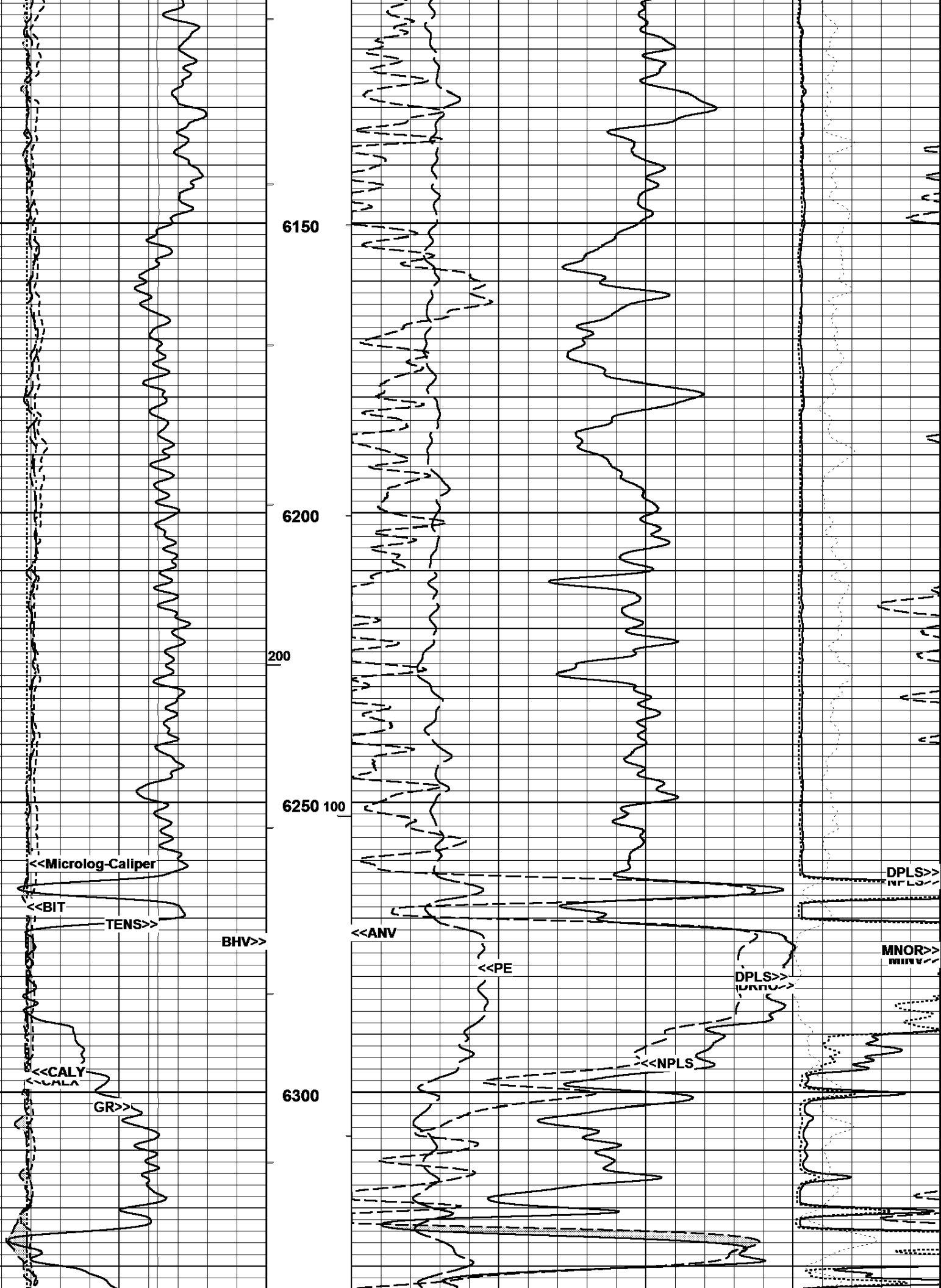


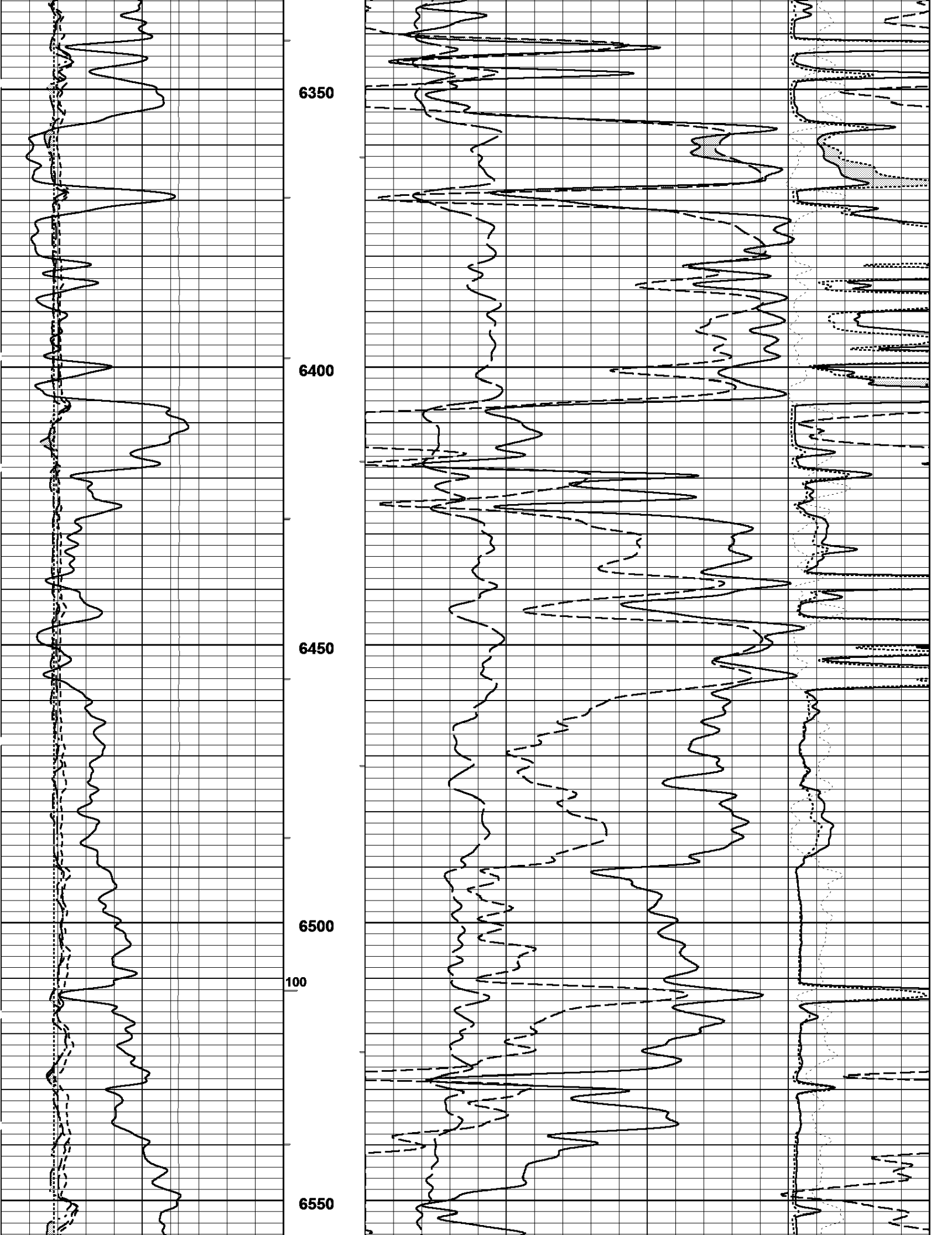


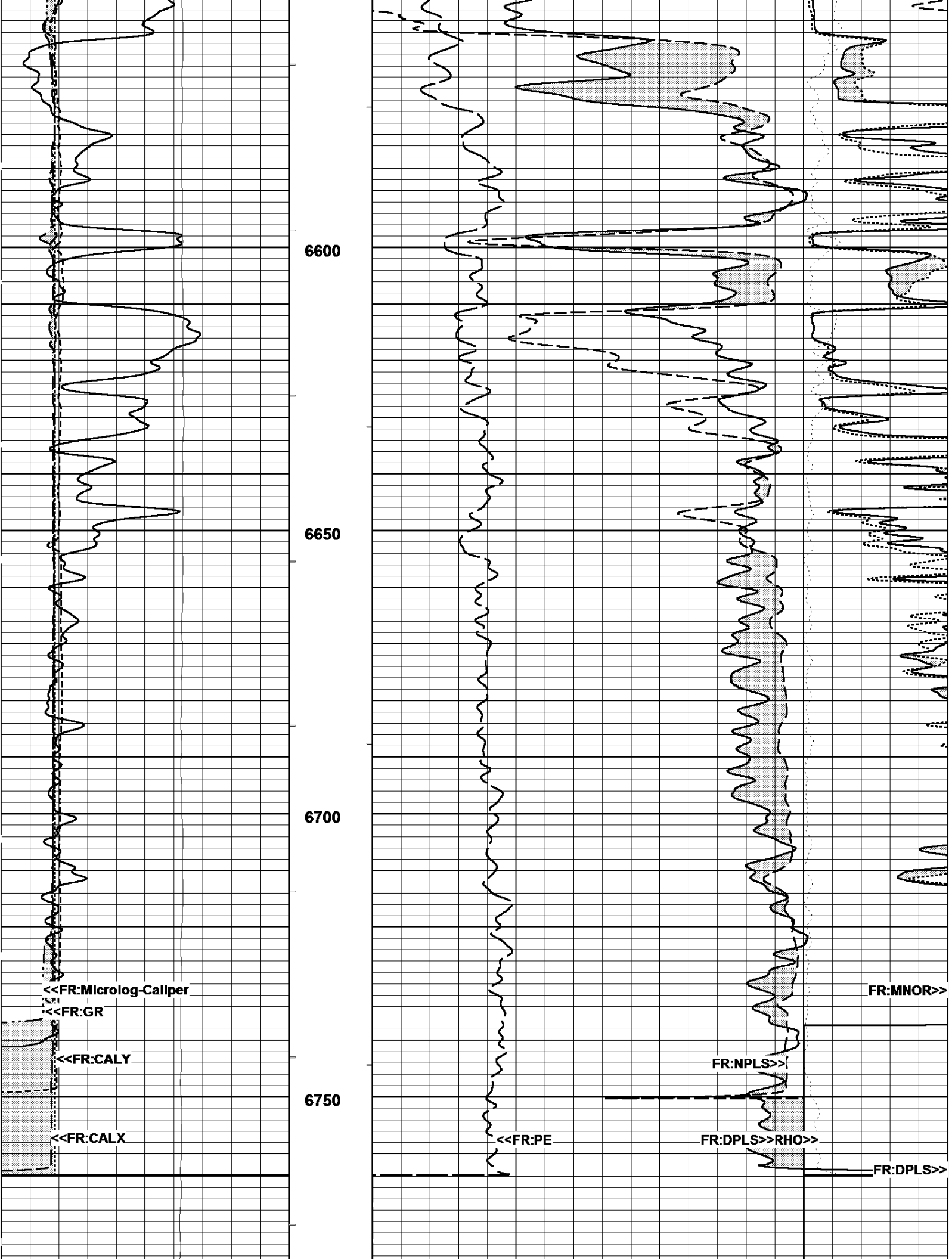


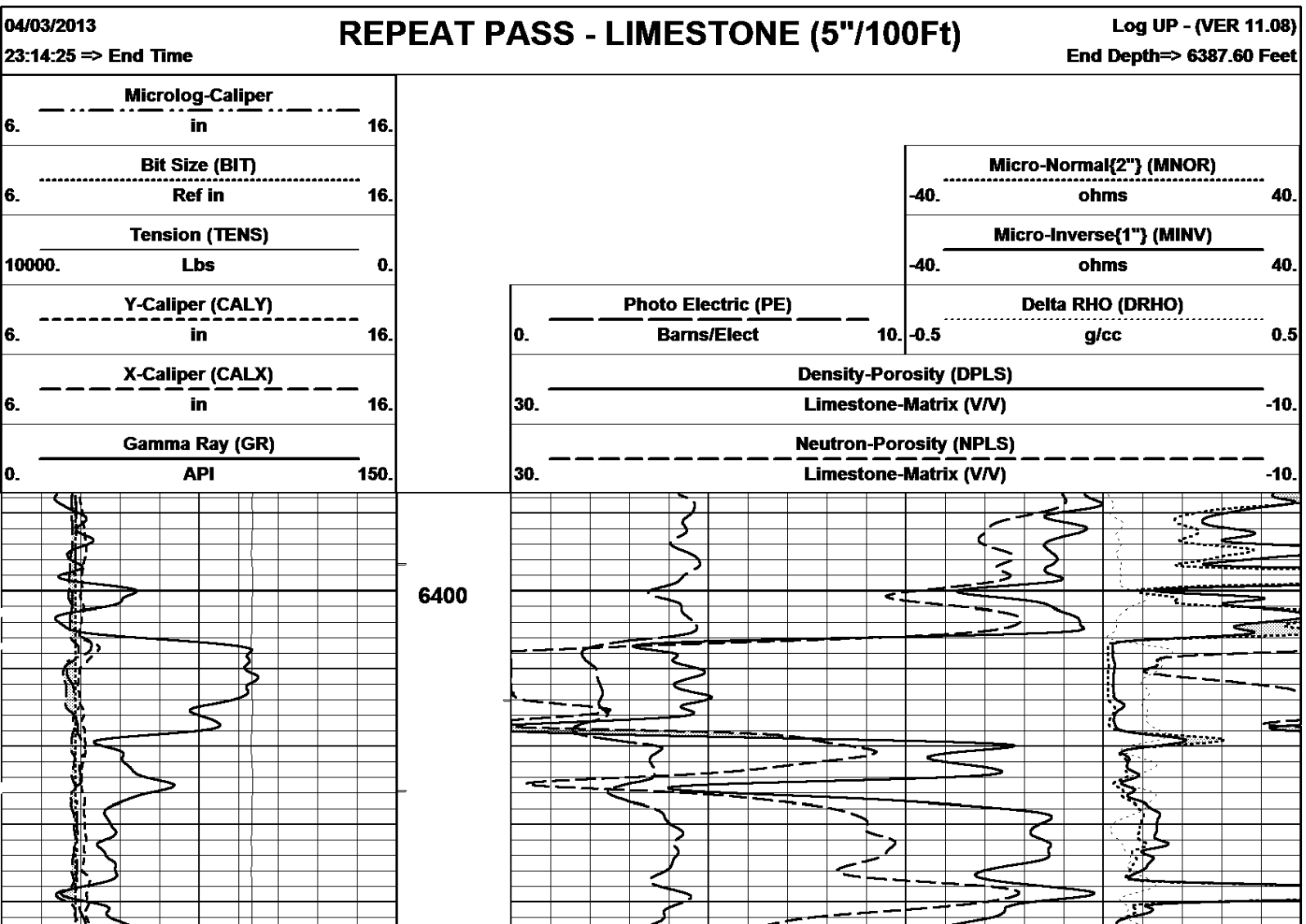
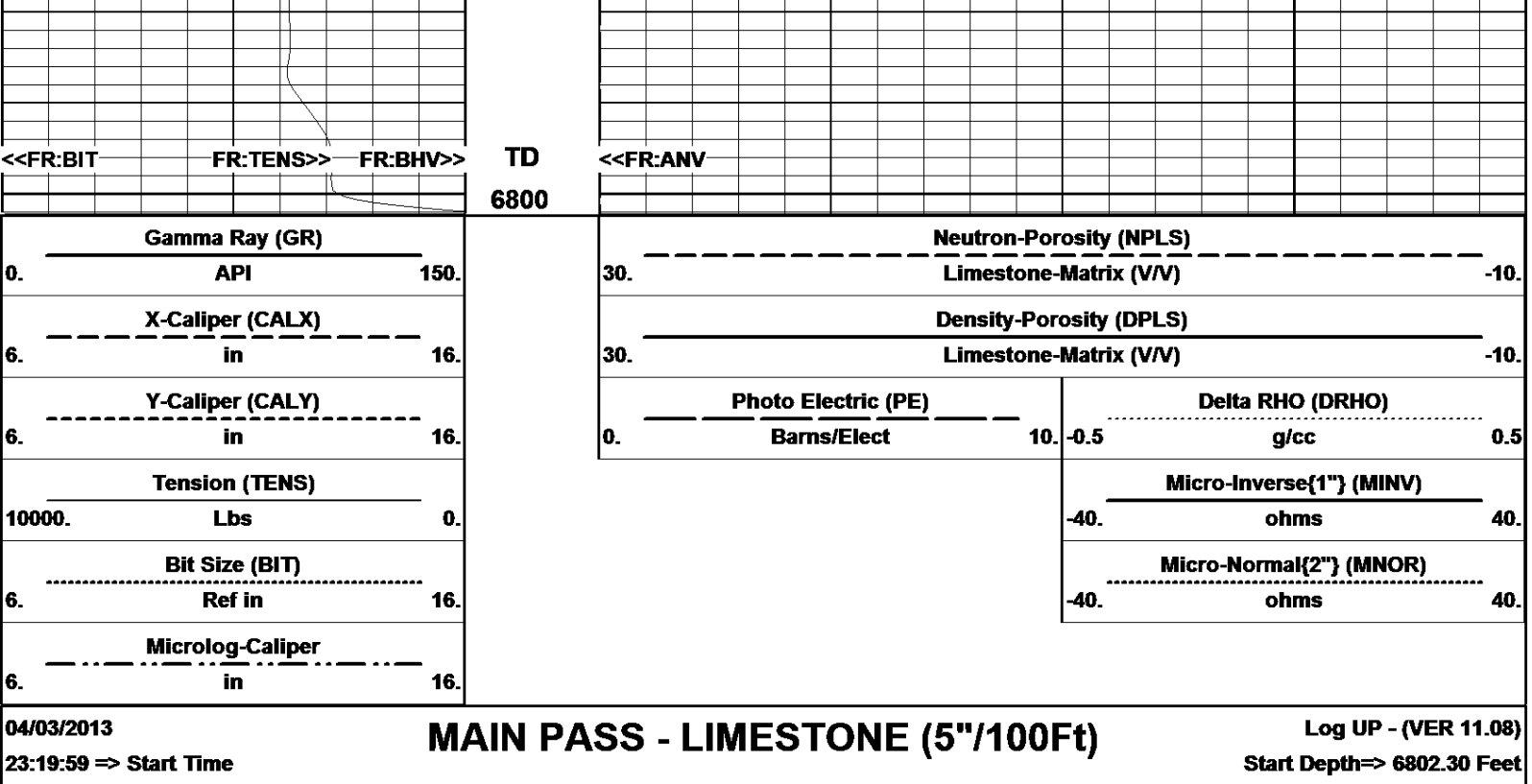


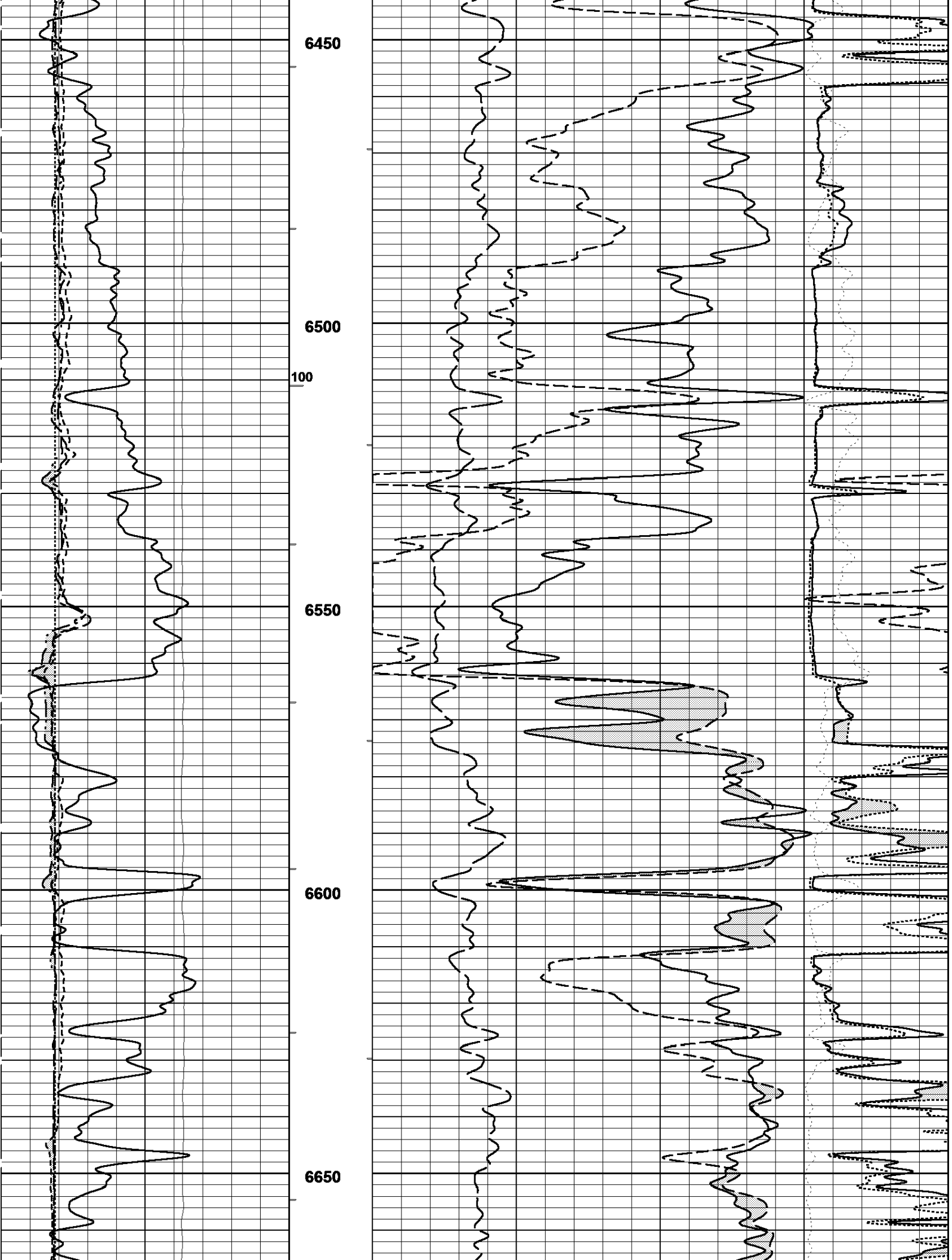


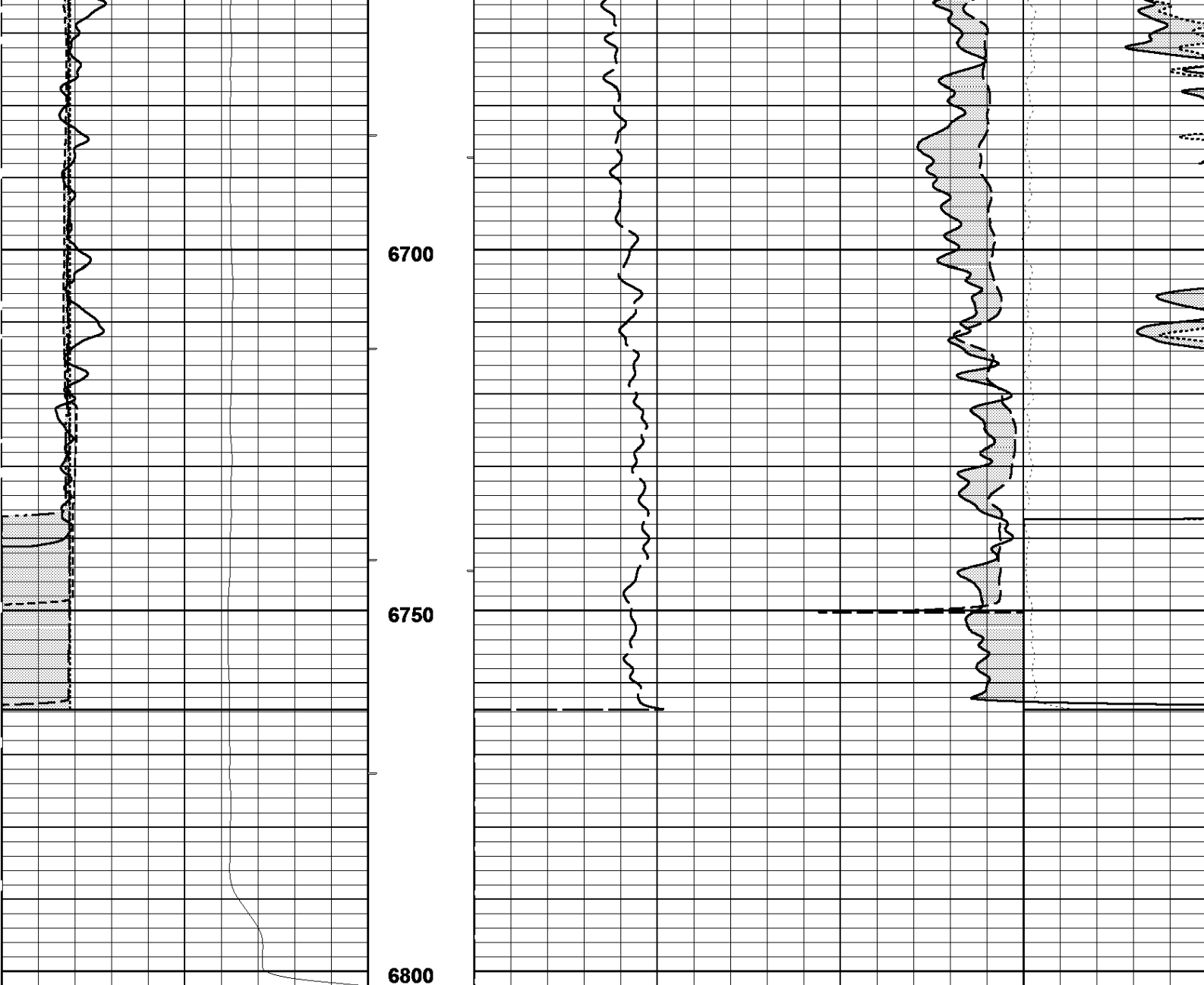










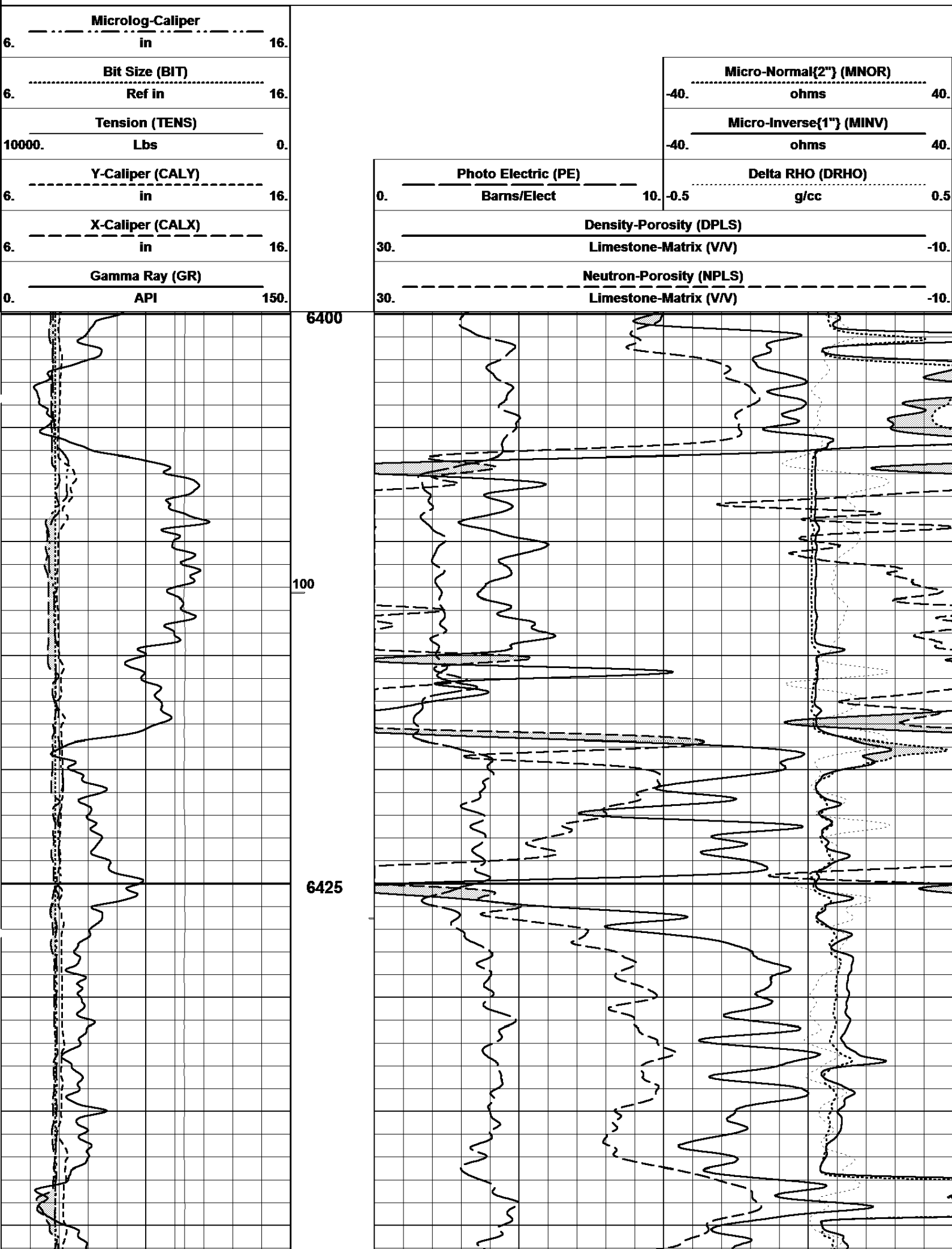


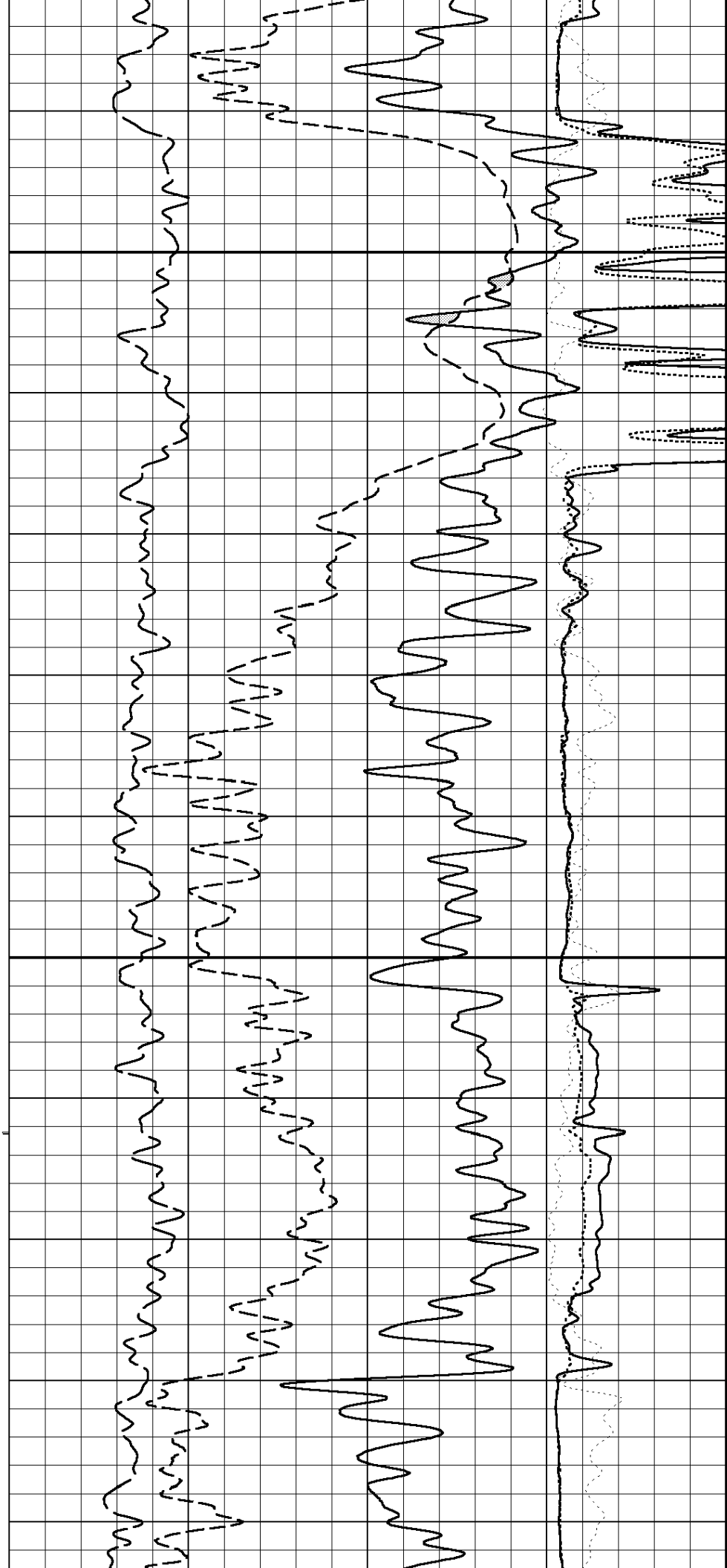
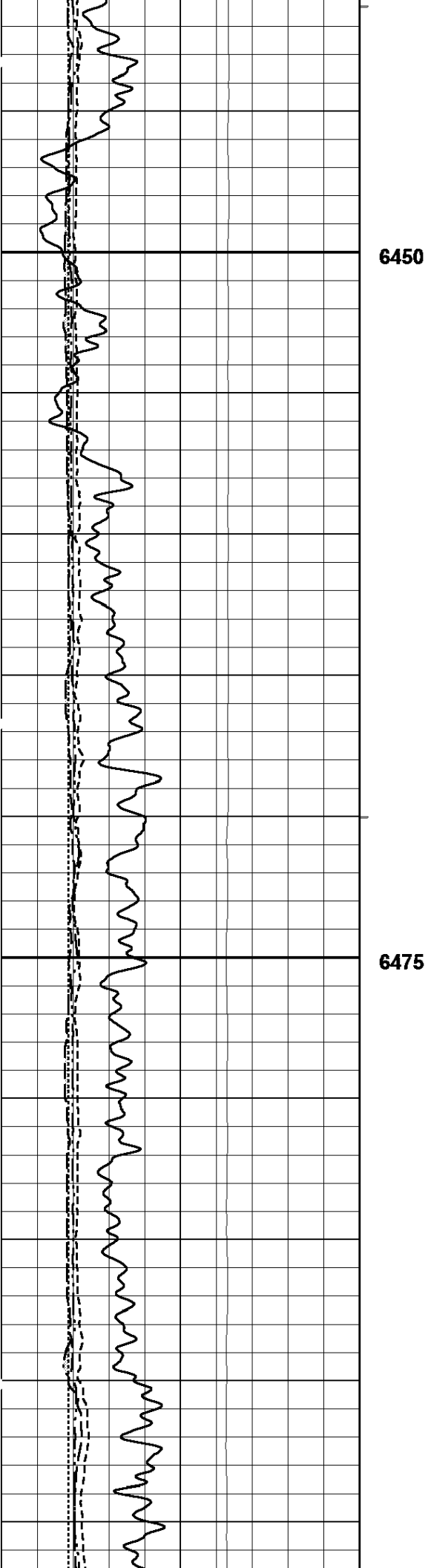
Gamma Ray (GR)		Neutron-Porosity (NPLS)	
0.	API	150.	30.
X-Caliper (CALX)		Limestone-Matrix (V/V)	
6.	in	16.	-10.
Y-Caliper (CALY)		Density-Porosity (DPLS)	
6.	in	16.	30.
Tension (TENS)		Limestone-Matrix (V/V)	
10000.	Lbs	0.	-10.
Bit Size (BIT)		Photo Electric (PE)	
6.	Ref in	16.	0.
Microlog-Caliper		Barns/Elect	
6.	in	16.	10.
		Delta RHO (DRHO)	
		-0.5 g/cc 0.5	
		Micro-Inverse{1"} (MINV)	
		-40. ohms 40.	
		Micro-Normal{2"} (MNOR)	
		-40. ohms 40.	

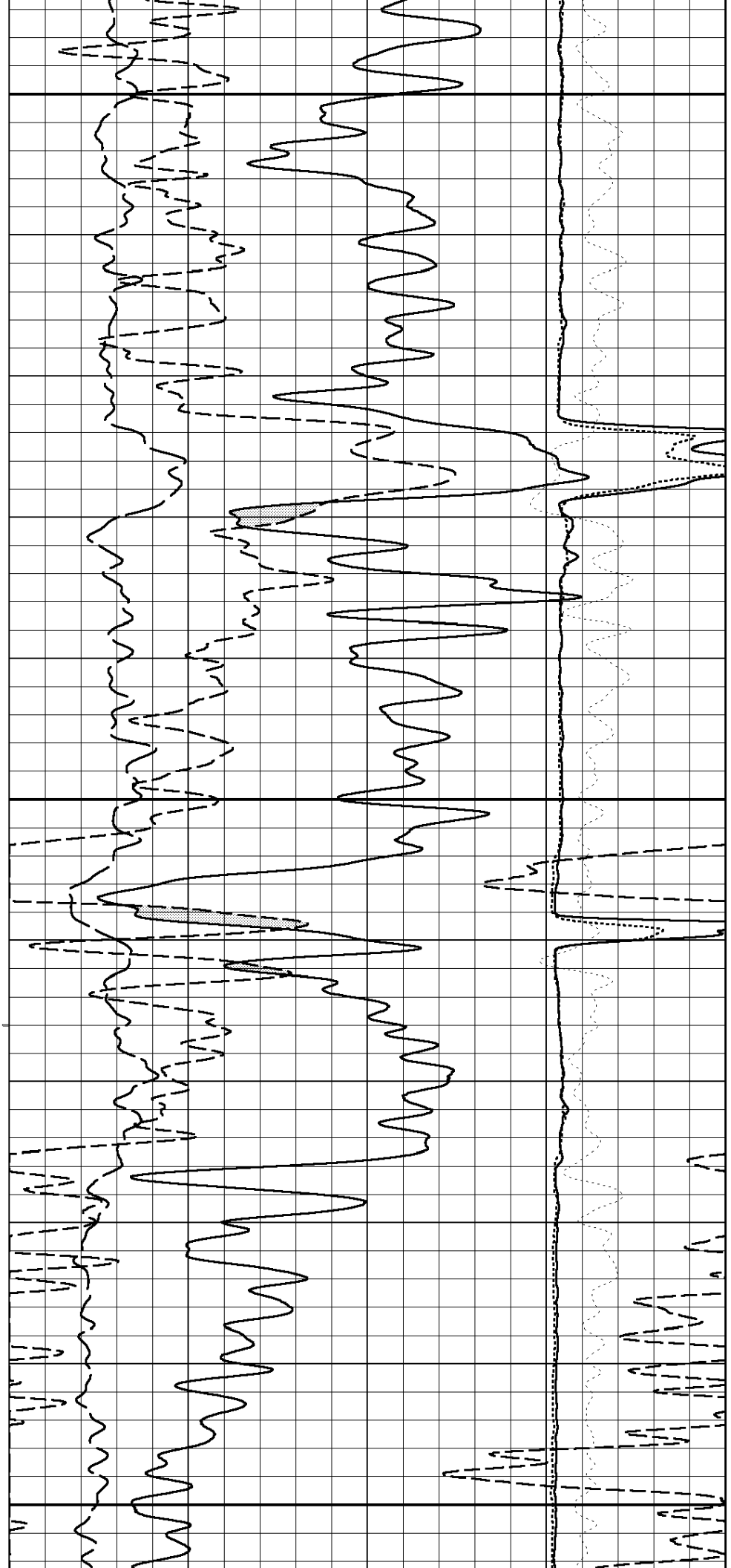
04/03/2013	REPEAT PASS - LIMESTONE (5"/100Ft)	Log UP - (VER 11.08)
22:53:24 => Start Time		Start Depth=> 6802.30 Feet

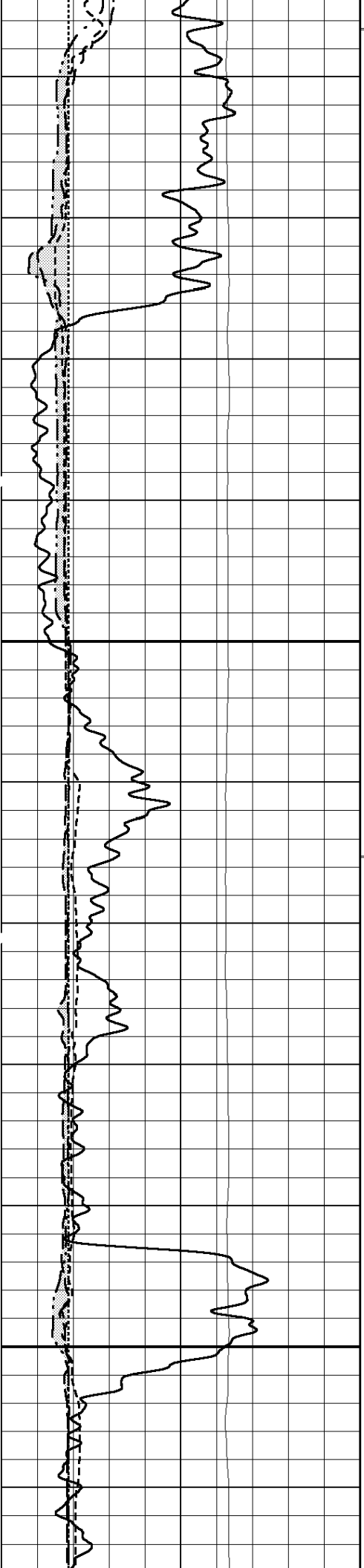
04/03/2013	HIGH DEFINITION PASS - LIMESTONE (20"/100Ft)	Log UP - (VER 11.08)
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End Depth=> 6399.98 Feet

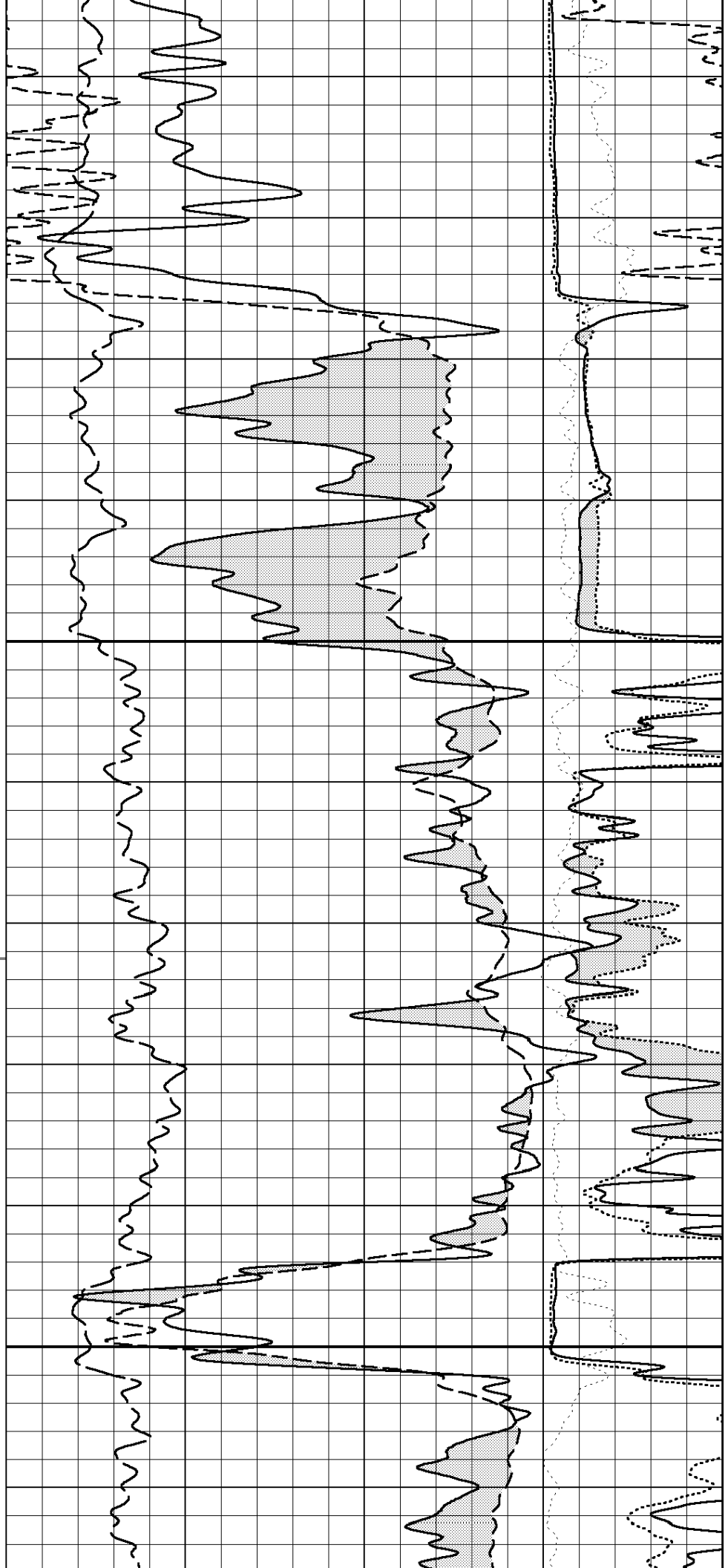




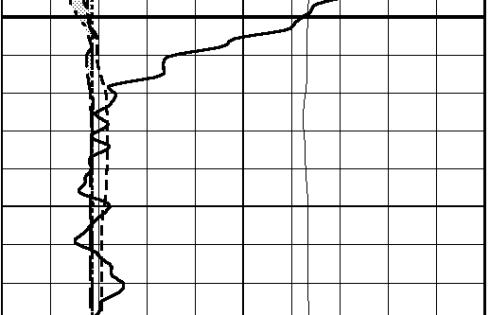


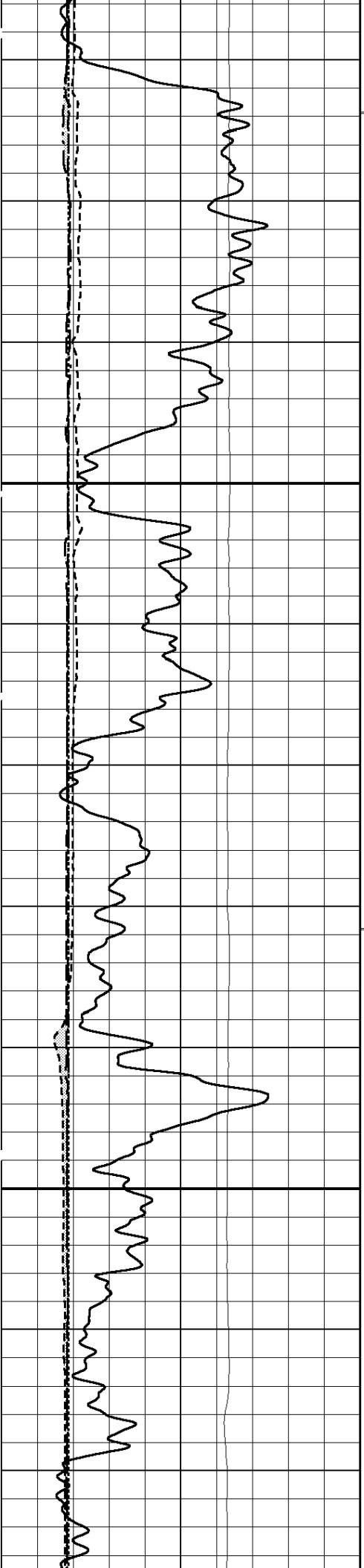


6575



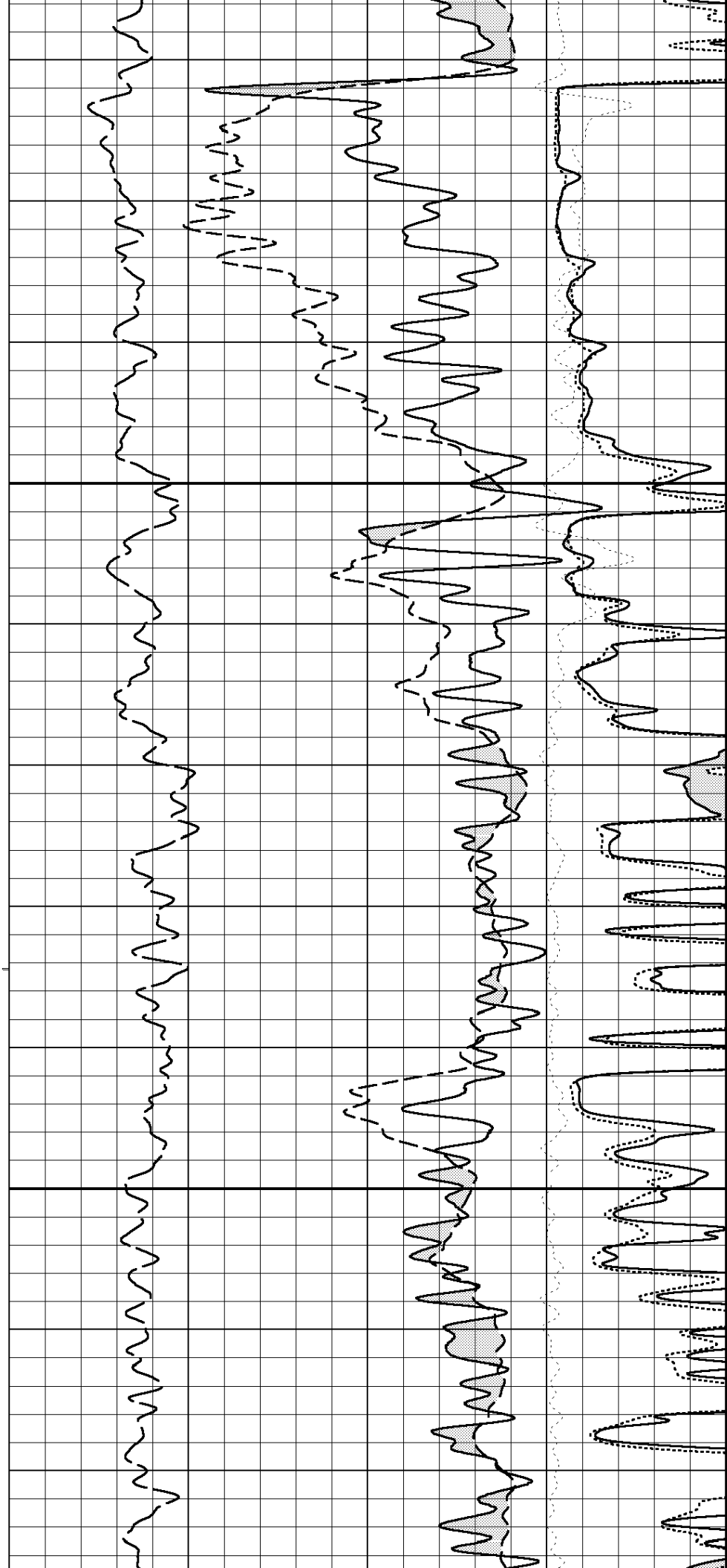
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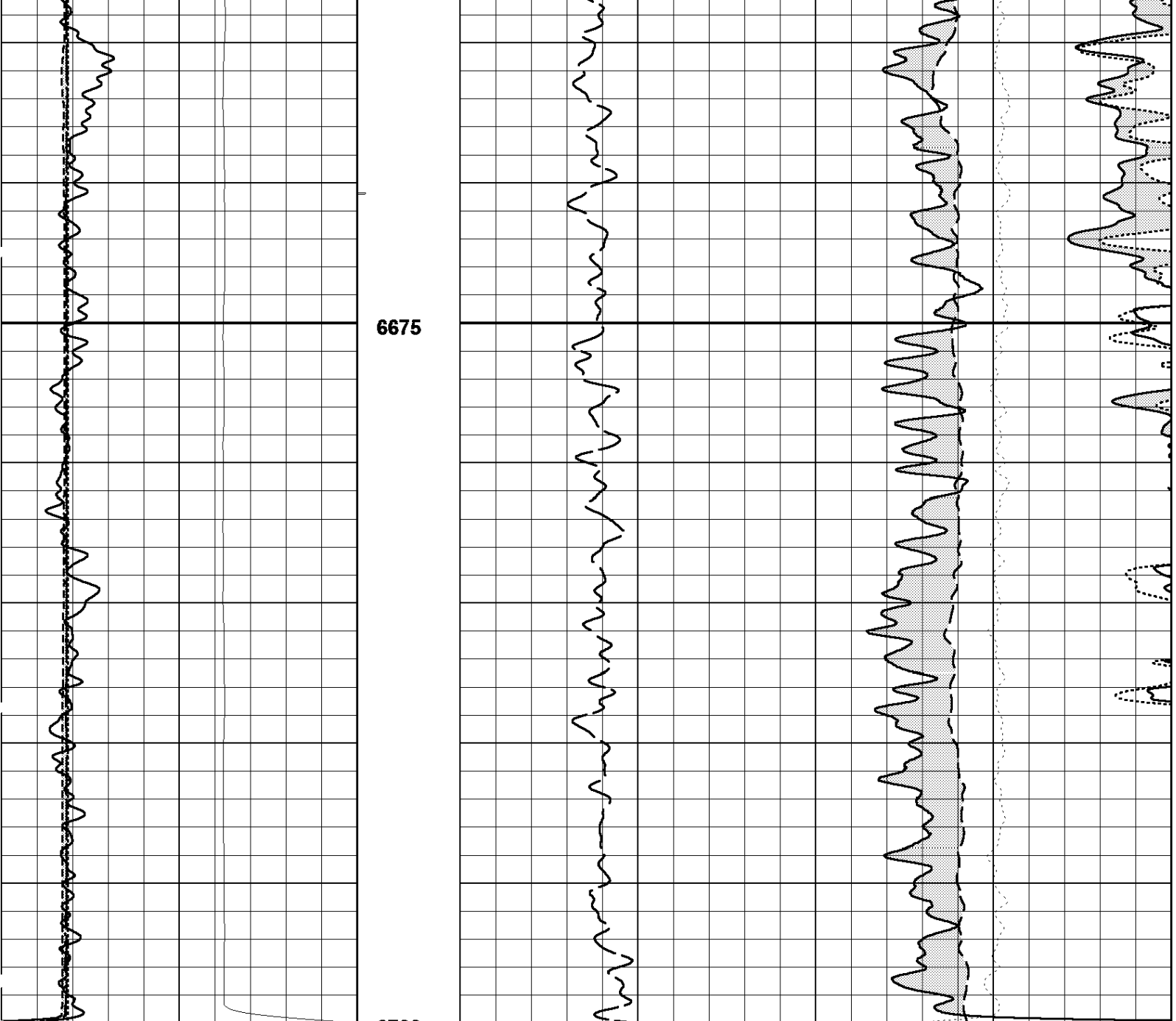




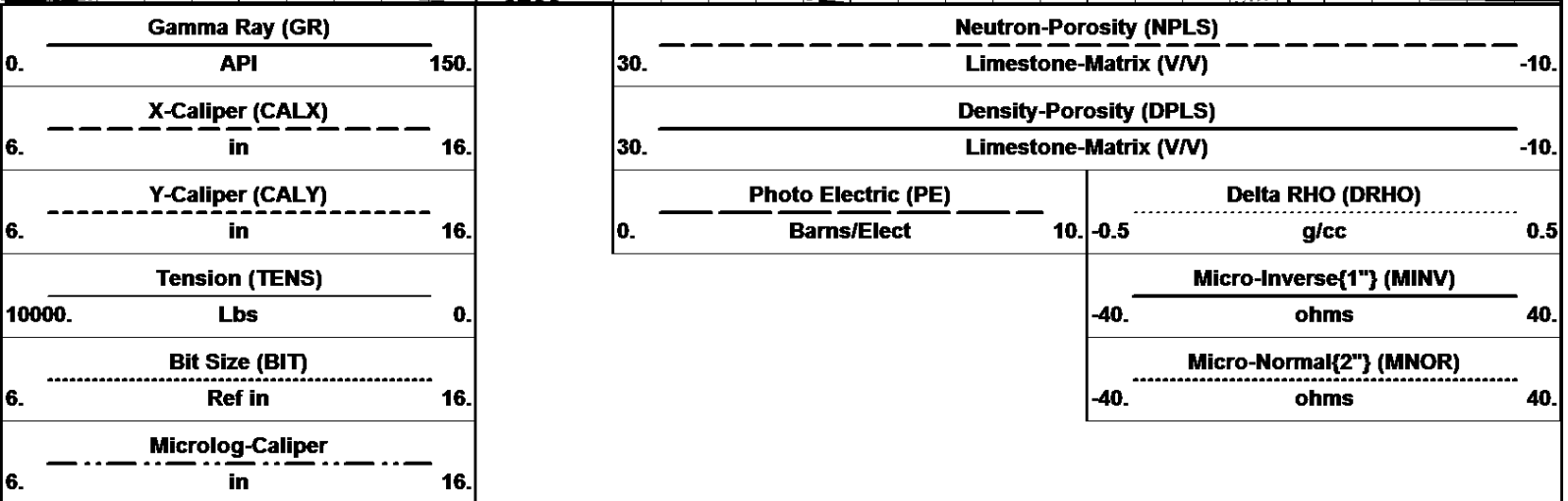
6625

6650





6675



Litho-Density/PE Calibrations

TOOL TYPE SERIAL NUM	LFDC/Pe	SOURCE TYPE SOURCE NUM	CESIUM 137	SOURCE STRGTH	2 CURIE
	RL4101				

MASTER BLOCK CALIBRATIONS								
	W1(cps)	W2(cps)	W3(cps)	W4(cps)	SS	UNITS	CALIBRATION DATE	CALIBRATION TIME
ALUMINUM	5556.004	4729.793	2305.224	4.263	4767.9784	2.523(g/cc)	M/D/Y> 2/7/2013	H:M:S> 9:26:27
MAGNESIUM	17092.824	14257.642	6233.131	4.796	7056.5977	1.679(g/cc)		
BACKGROUND	1477.972	1302.028	899.931	4.021	4.0828			
SAND	14815.286	12626.740	5695.843	4.439		1.739(PE)		
IRON	4951.931	4275.462	2155.972	3.703		4.529(PE)		
FIELD VERIFIER(cps)	1887.440	1658.720	1078.600	5.280	3.8400			
VER NUM LDP-4102								

WELL SITE CALIBRATIONS									
VER NUM	LDP-4102	W1(cps)	W2(cps)	W3(cps)	W4(cps)	SS		CALIBRATION DATE	CALIBRATION TIME

Compensated Neutron Calibrations					
TOOL TYPE SERIAL NUM	CNT-B	SOURCE TYPE SOURCE NUM	AM241BE	SOURCE STRGTH	20 CURIE
	RN2007				

MASTER TANK CALIBRATIONS							
		NEAR(cps)	FAR(cps)	RATIO	K VALUE	CALIBRATION DATE	CALIBRATION TIME
LOW PHI	3.150			0.6013	0.9152	M/D/Y> 2/7/2013	H:M:S> 15:5:26
MED PHI	19.130			1.0301	0.9152		
HIGH PHI	31.300			1.2348	0.9153		
FIELD VERIFIER(cps)	7430	294.161	282.345	1.0418			
VER NUM							

WELL SITE CALIBRATIONS						
VER NUM	7430	NEAR(cps)	FAR(cps)	RATIO	CALIBRATION DATE	CALIBRATION TIME

GAMMA RAY CALIBRATION					
SERIAL NUM BLANKET NUM	RG3011				
	1A				
MASTER CALIBRATIONS					
	BackGrnd	CalVal: 135.000 API	Gain/Offset	CALIBRATION DATE	CALIBRATION TIME
BASE CALS	60.734 - raw	435.140 - raw	0.361 - gain 0.000 - off	M/D/Y> 2/7/2013	H:M:S> 14:15:20

X CALIPER

SERIAL NUM

RL4101

MASTER CALIBRATIONS

	ZeroVal: 6.000 In	CalVal: 10.000 In	Gain/Offset	CALIBRATION DATE	CALIBRATION TIME
BASE CALS	2360.811 - raw	4312.826 - raw	0.002 - gain 1.162 - off	M/D/Y> 2/7/2013	H:M:S> 9:47:51

Y CALIPER CALIBRATIONS

SERIAL NUM

RN2007

MASTER CALIBRATIONS

	ZeroVal: 6.000 in	CalVal: 10.000 in	Gain/Offset	CALIBRATION DATE	CALIBRATION TIME
BASE CALS	734.921 - raw	1470.267 - raw	0.005 - gain 2.002 - off	M/D/Y> 2/7/2013	H:M:S> 15:16:2

Company

MIDWESTERN EXPLORATION, LLC.

Well

GOOCH #1-8

Field

GOOCH

County

STEVENS

State

KANSAS

The logo for RECON, featuring the word "RECON" in a bold, italicized, sans-serif font, enclosed within a rectangular border.

COMPENSATED NEUTRON
LITHOLOGY DENSITY
GAMMA RAY XY-CALIPER
MICROLOG

The logo for RECON Petrotechnologies Ltd, featuring the word "RECON" in a large, bold, italicized, sans-serif font, with "PETROTECHNOLOGIES LTD" in a smaller, bold, sans-serif font below it, all enclosed within a rectangular border.

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Petrotechnologies
Ltd.