

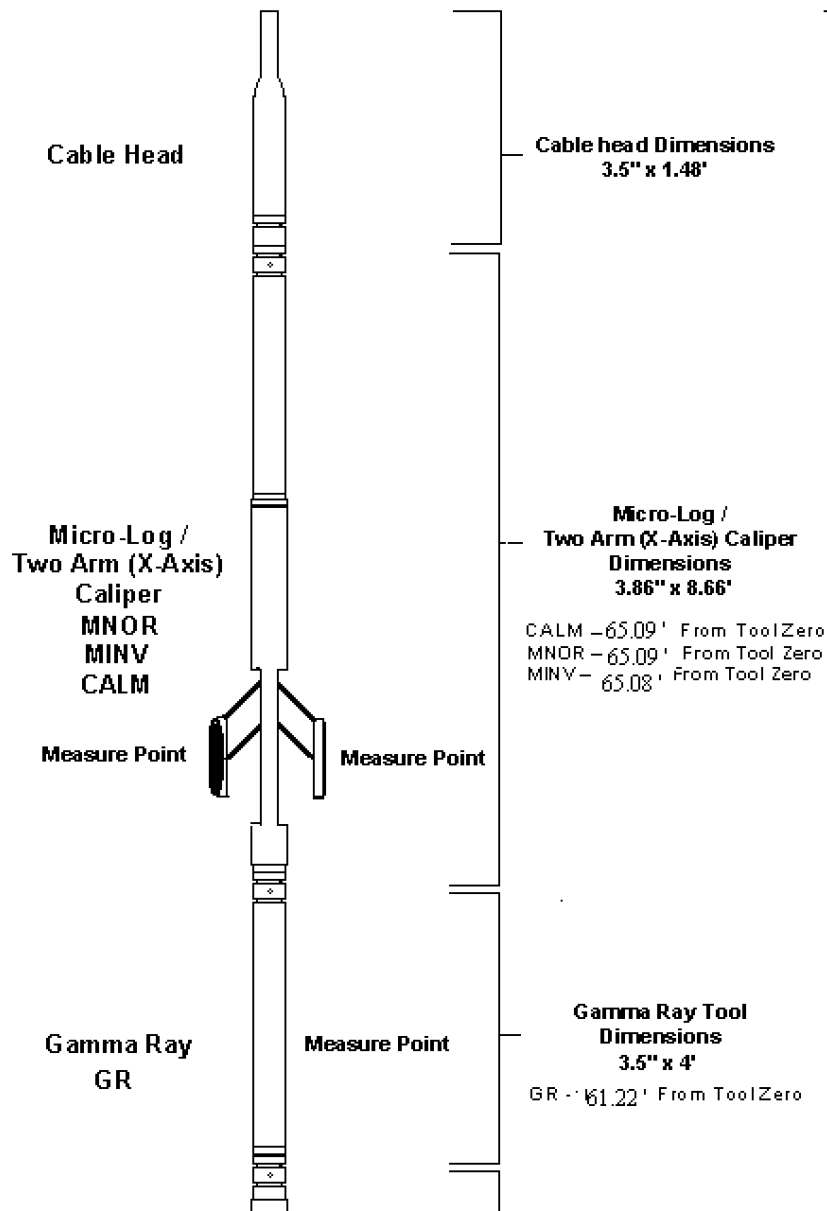
CEMENT VOLUME CALCULATIONS SUMMARY

Tool Type	LDT-CNT	Caliper Type		
Tool Serial #	RN2002 / RL4102			
	Borehole Total	Annular Volume with Casing	From Depth (MKb)	To Depth (MKb)
VOLUMES	1864.477 Cubic Feet	1023.037 Cubic Feet	SCG 1684	TD 6767

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	1684
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'

Tool String
Length Total
73.64'

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 - -38.68' From ToolZero
LDT w4 -
LDT SS - 38.19' From ToolZero

Measure Point

Borehole
Compensated
Sonic

Borehole Compensated Sonic
Tool Dimensions
3.5" x 15.75'

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

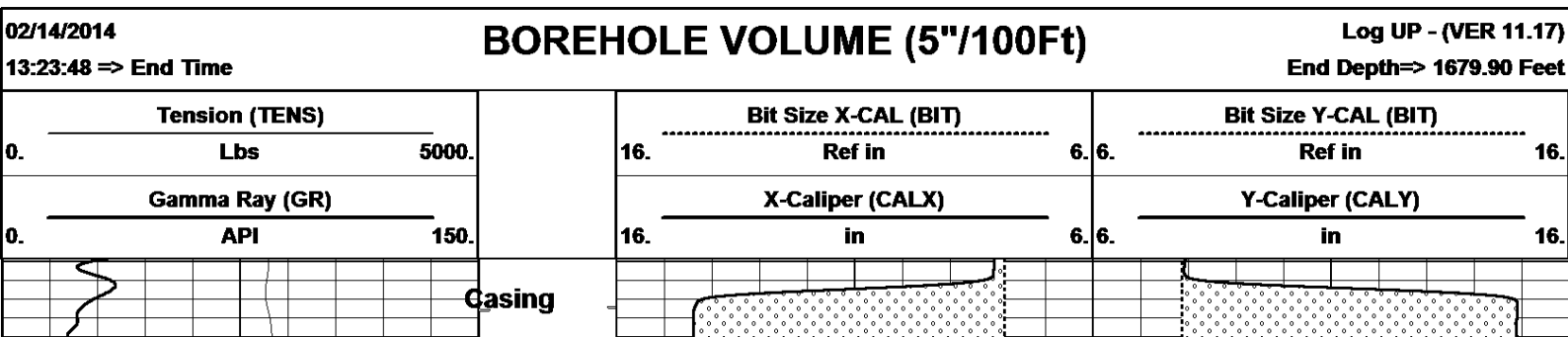
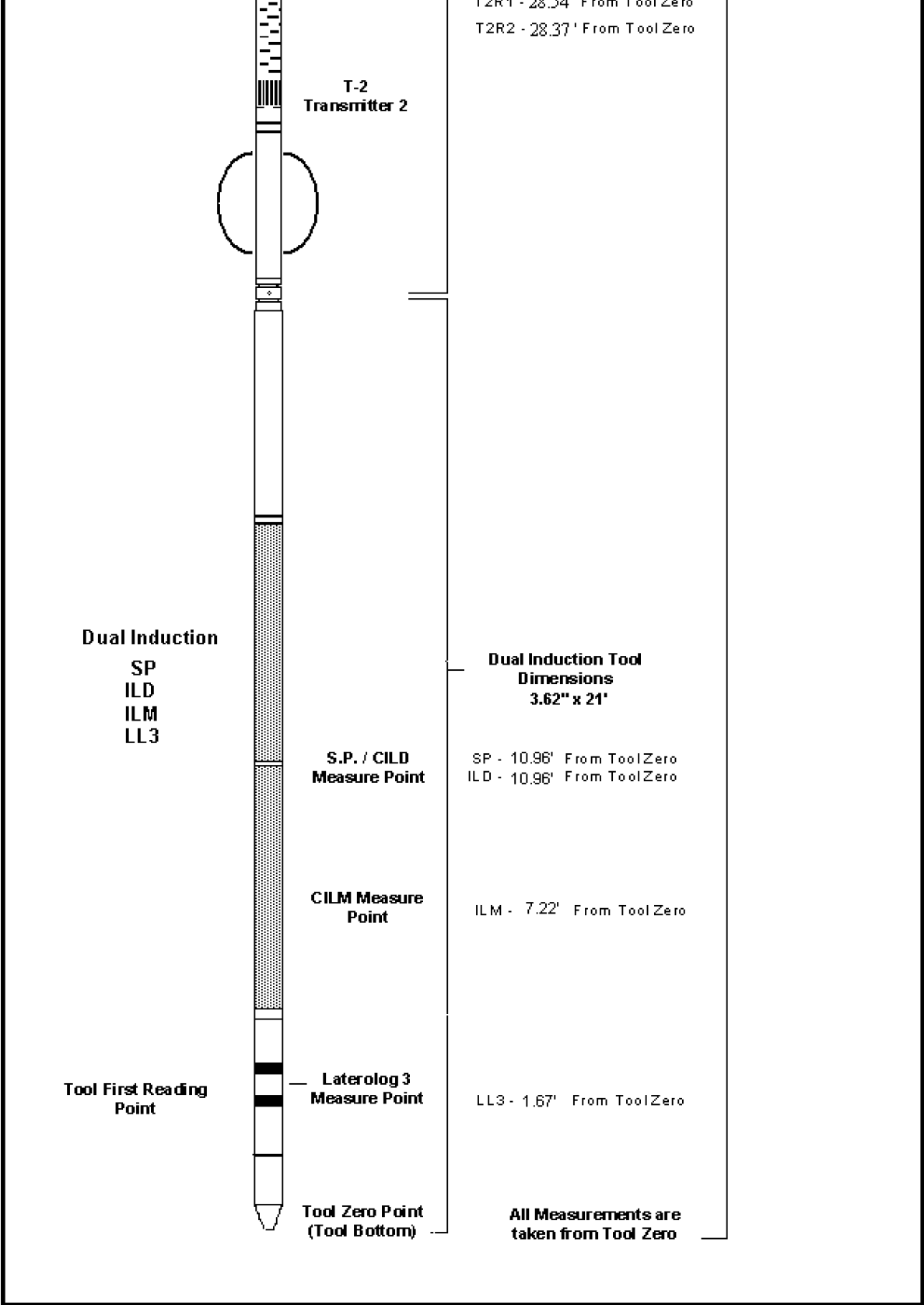
T1R1 - 33.35' From ToolZero
T1R2 - 31.35' From ToolZero

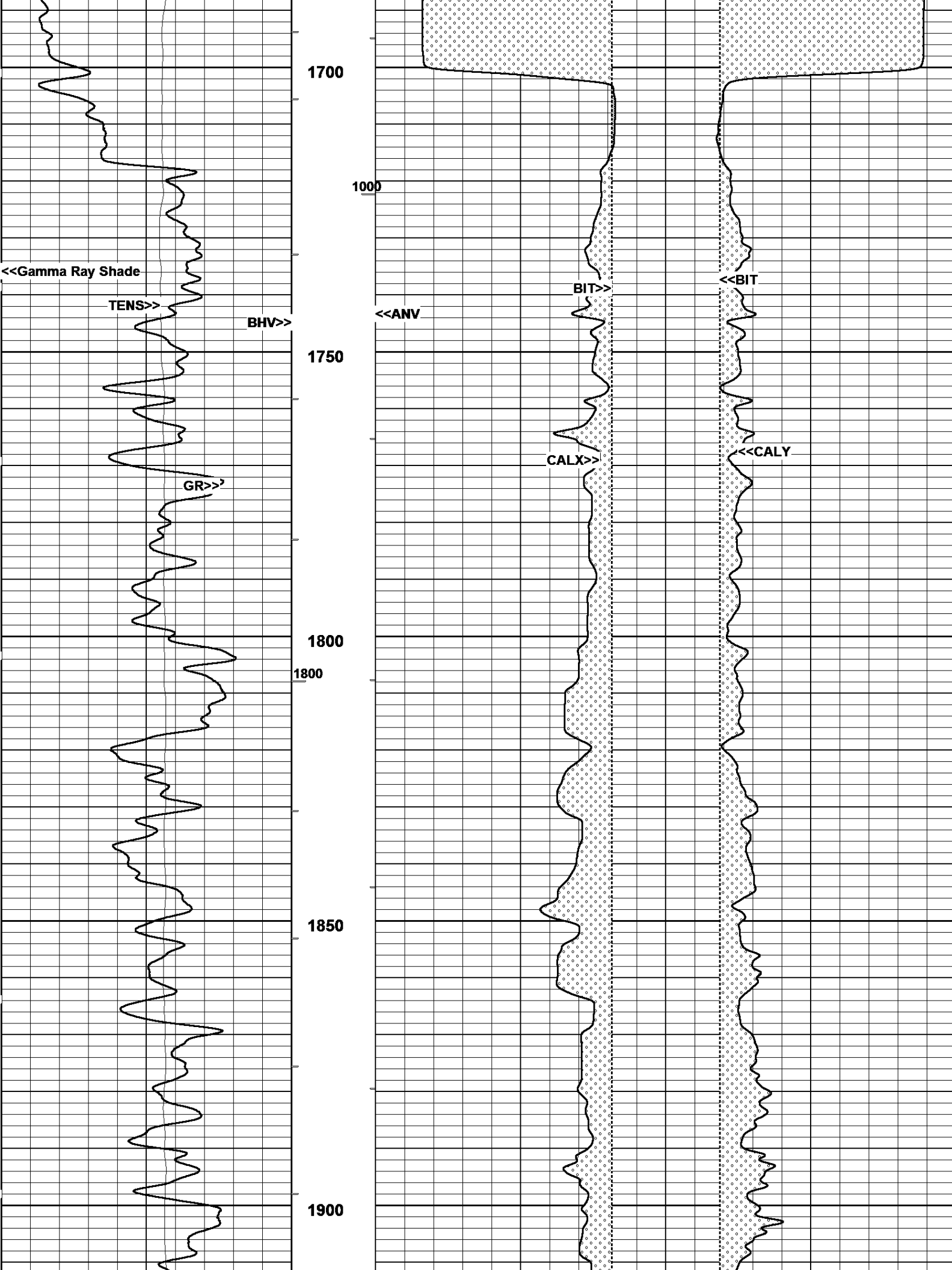
Measure Point
Tool First Reading
Point

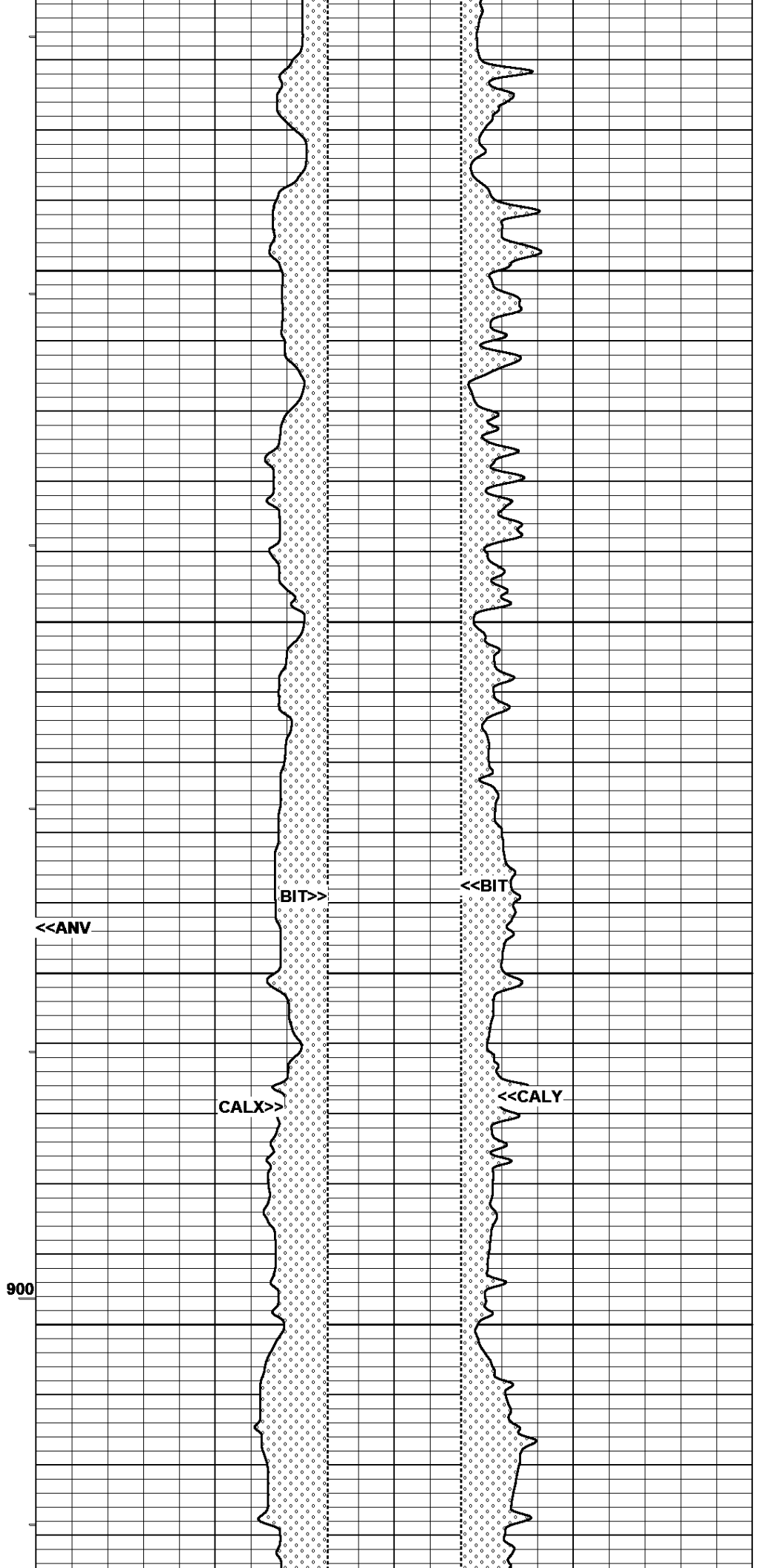
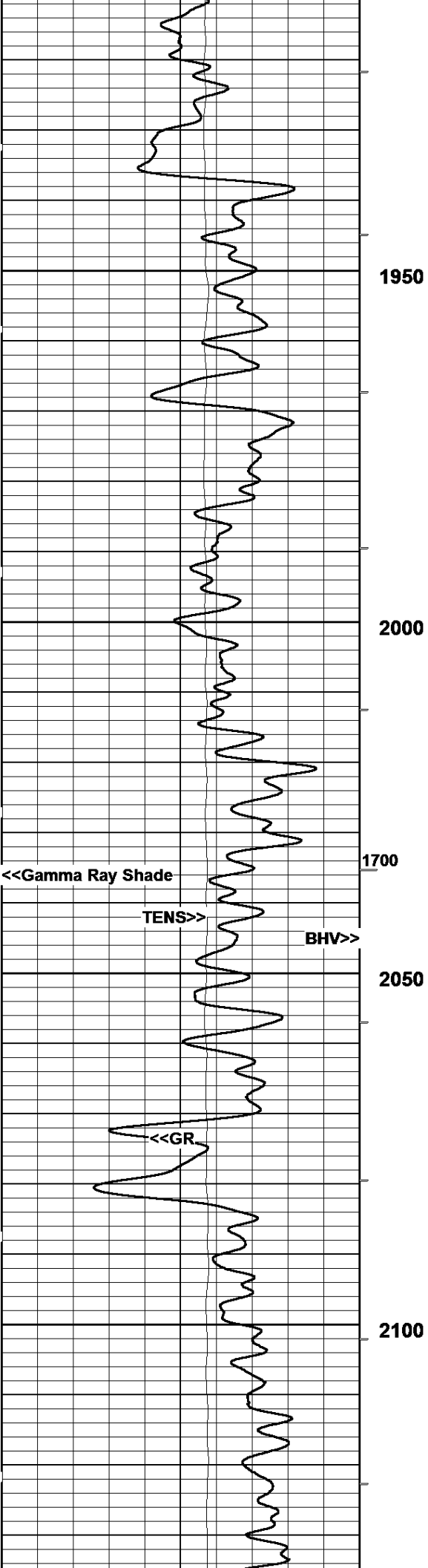
T-1
Transmitter 1

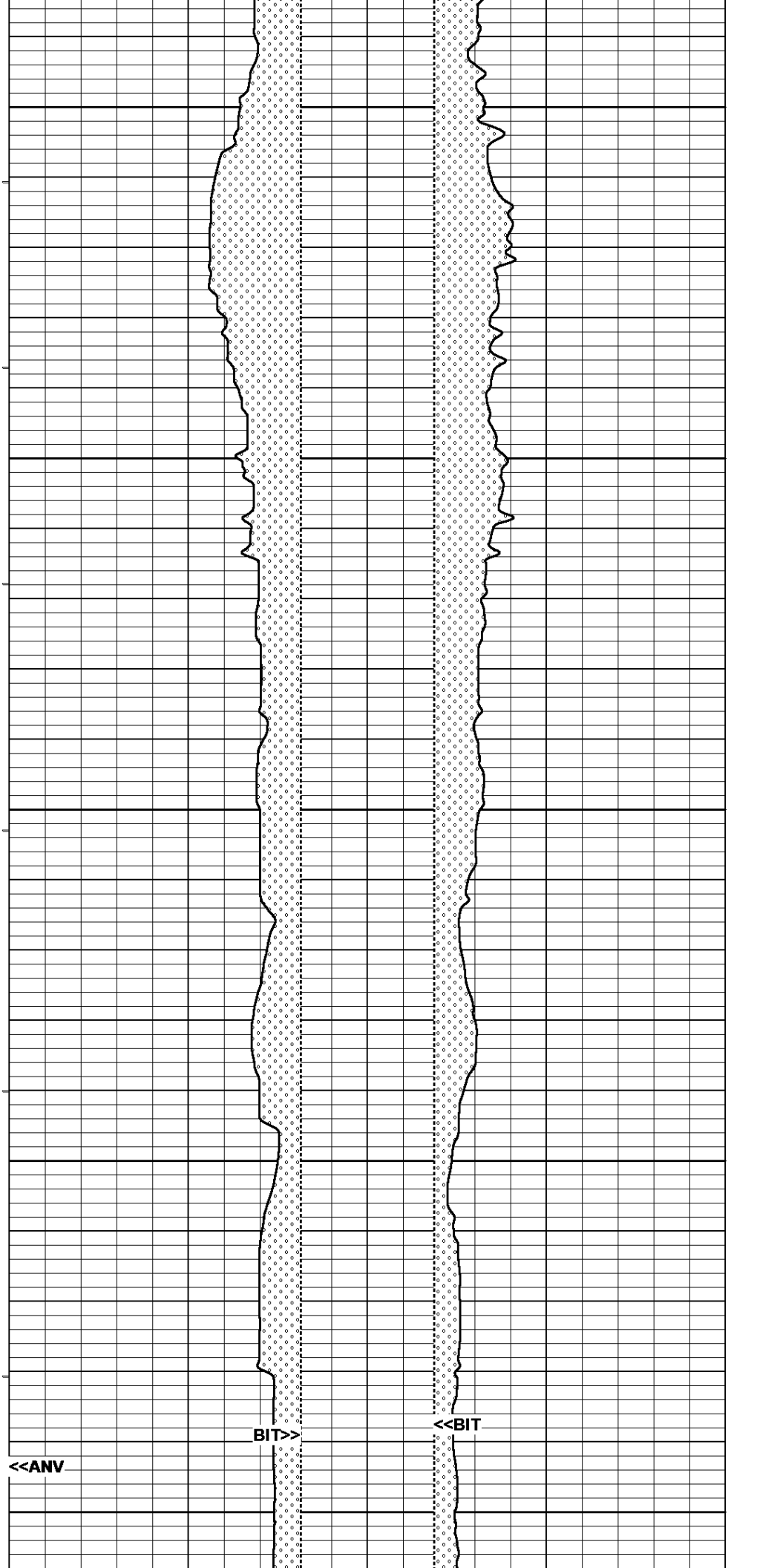
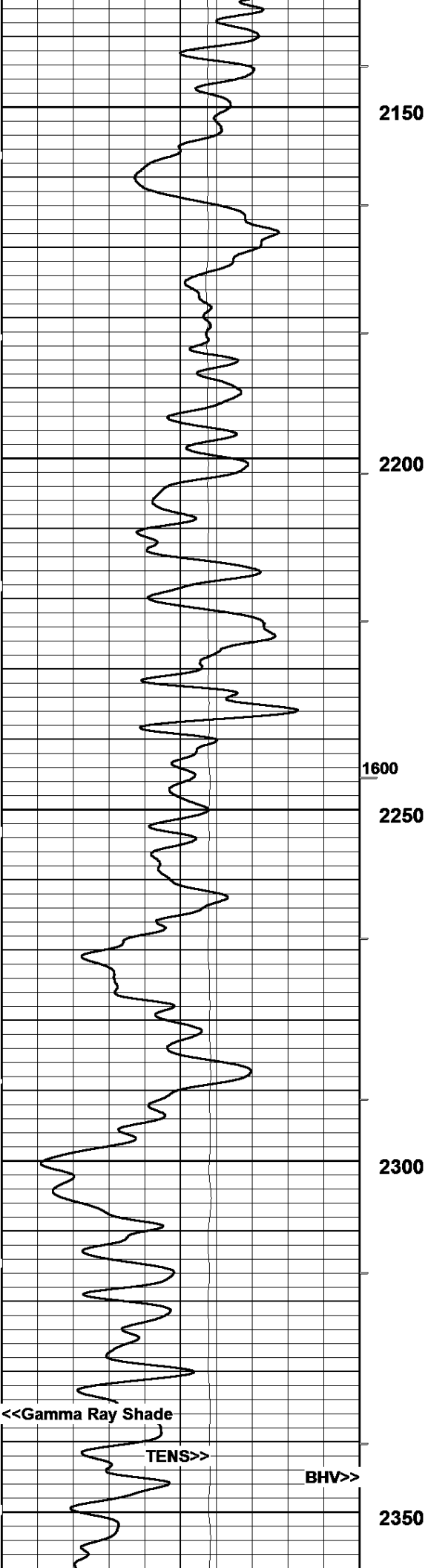
R-1
Receiver 1

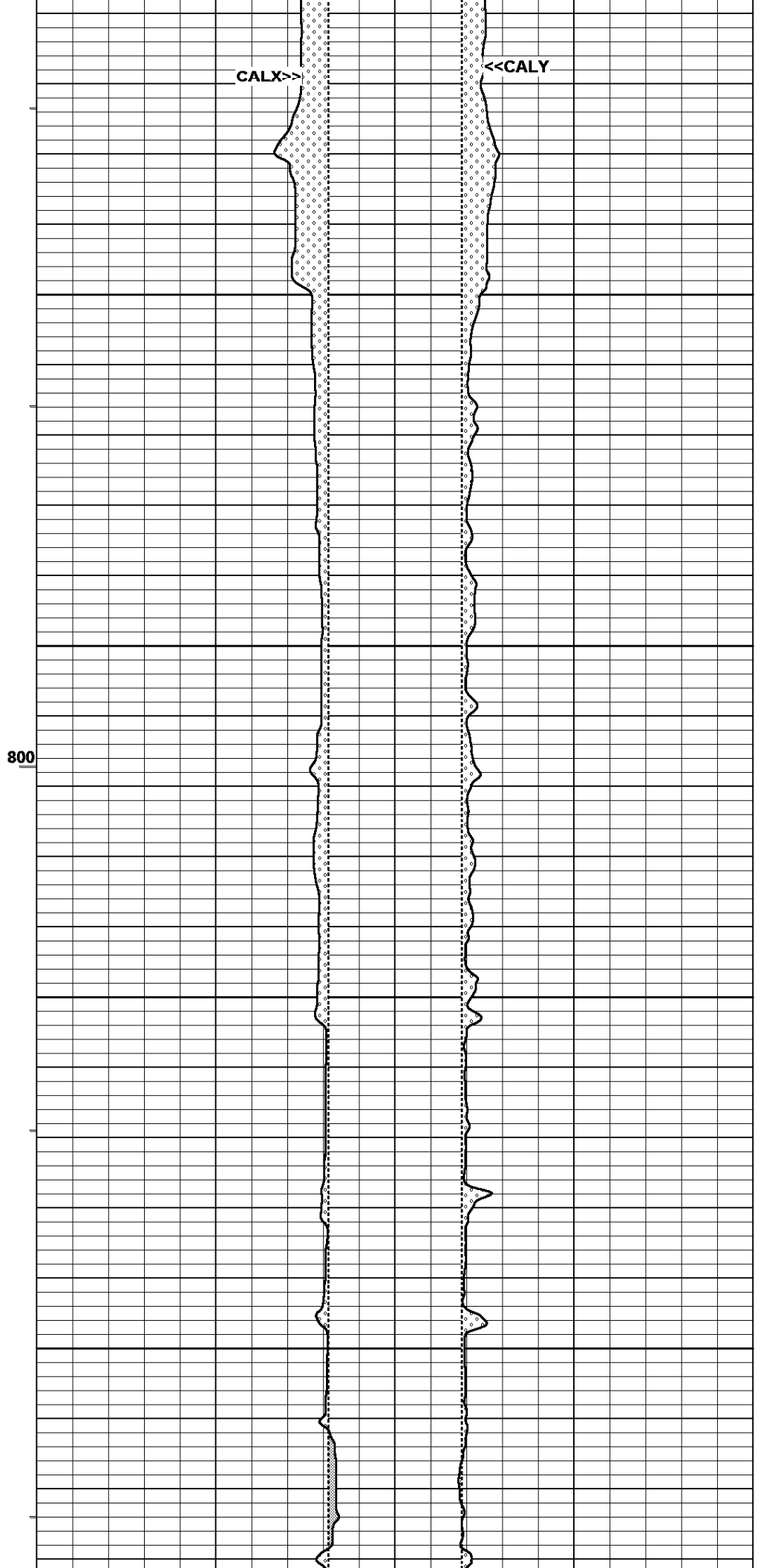
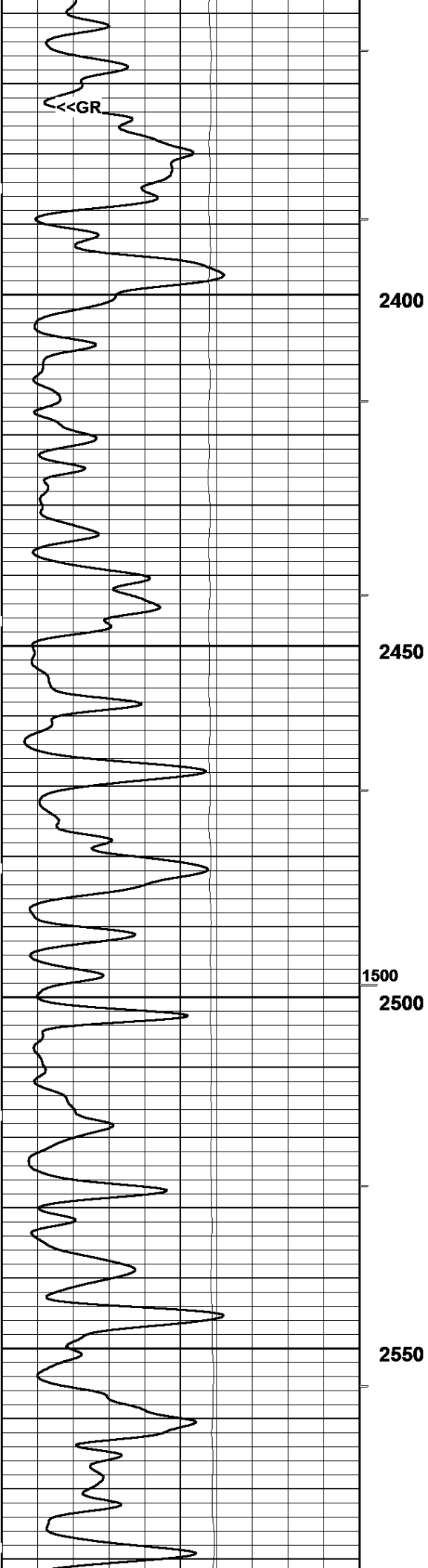
R-2
Receiver 2

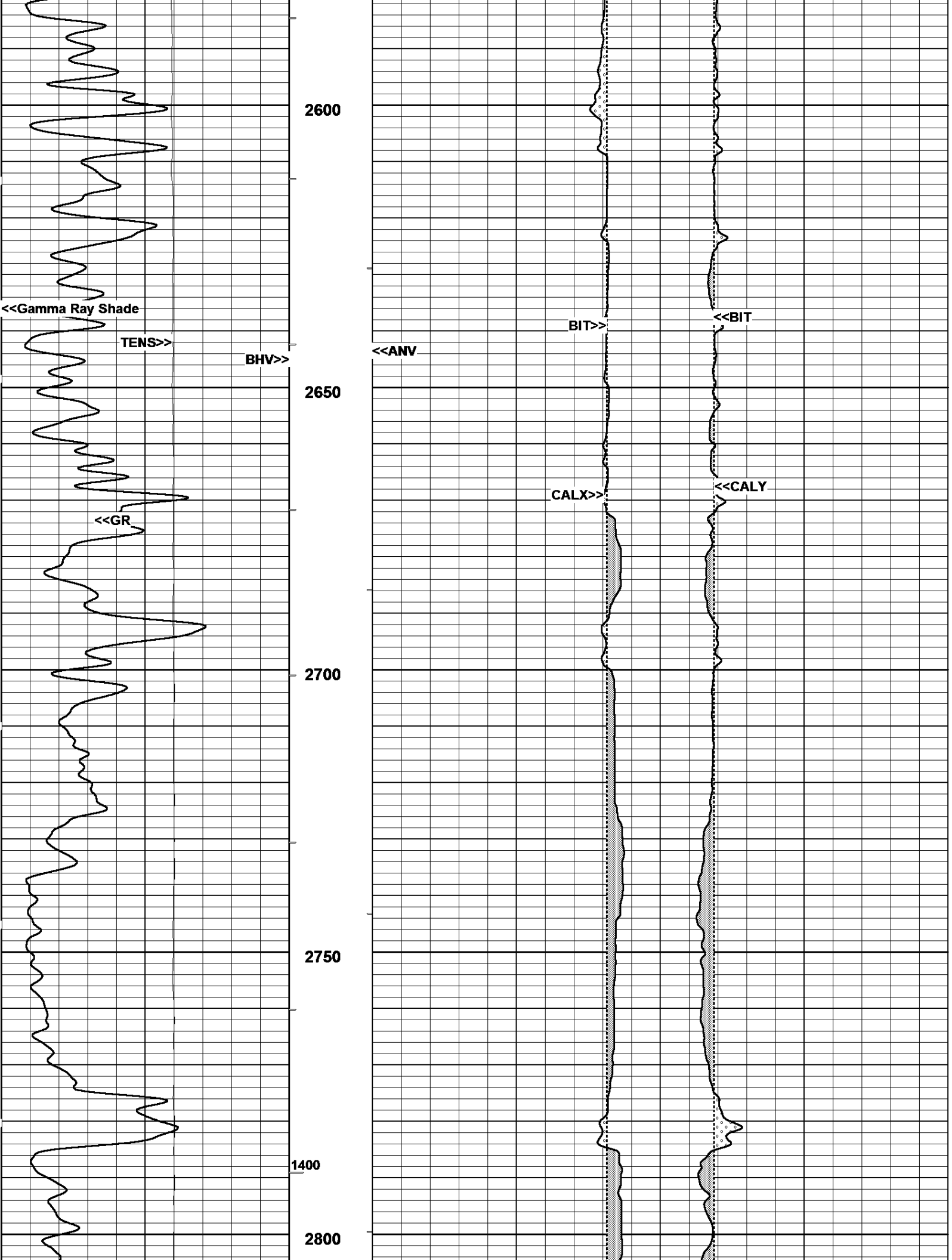


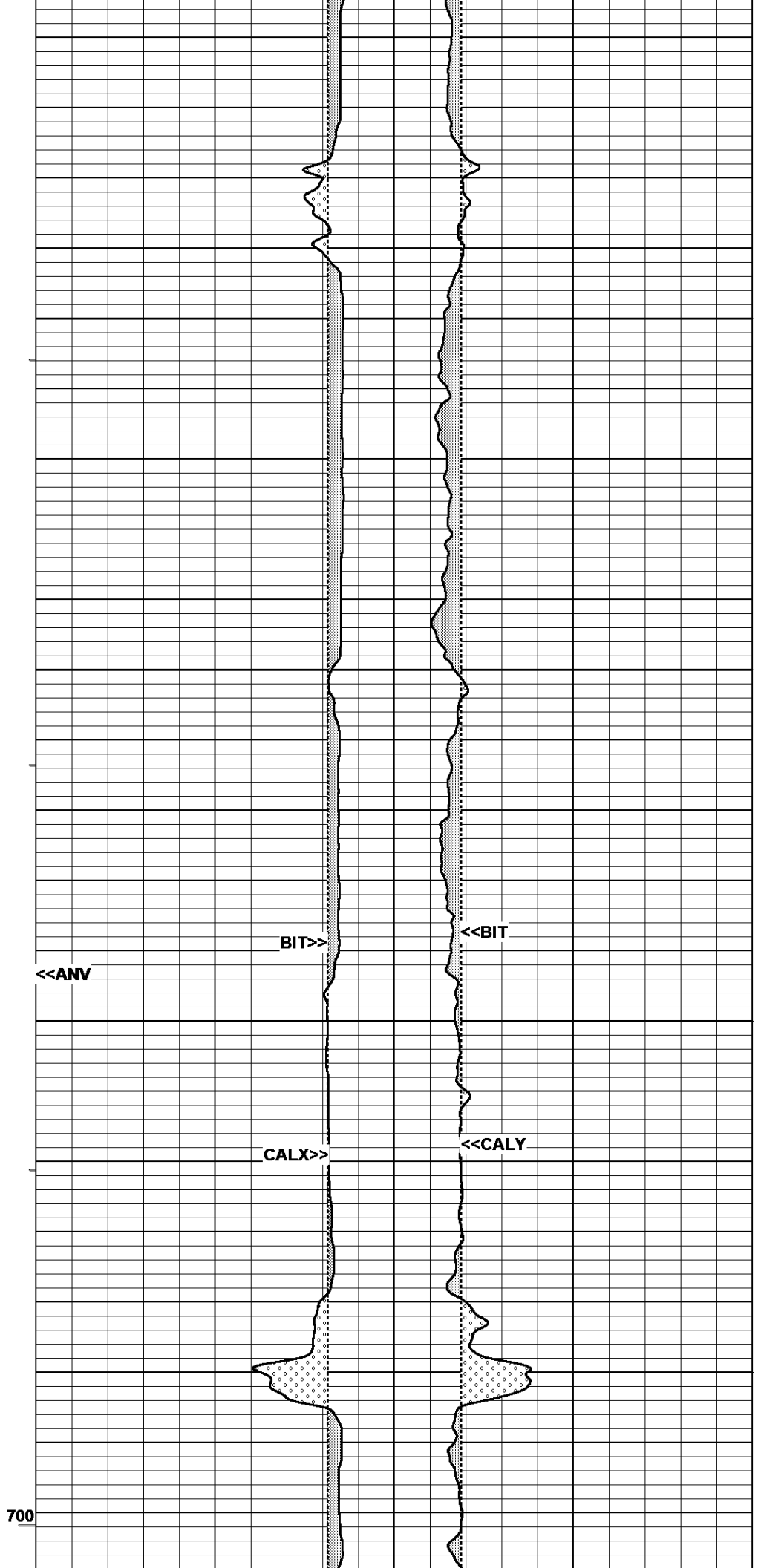
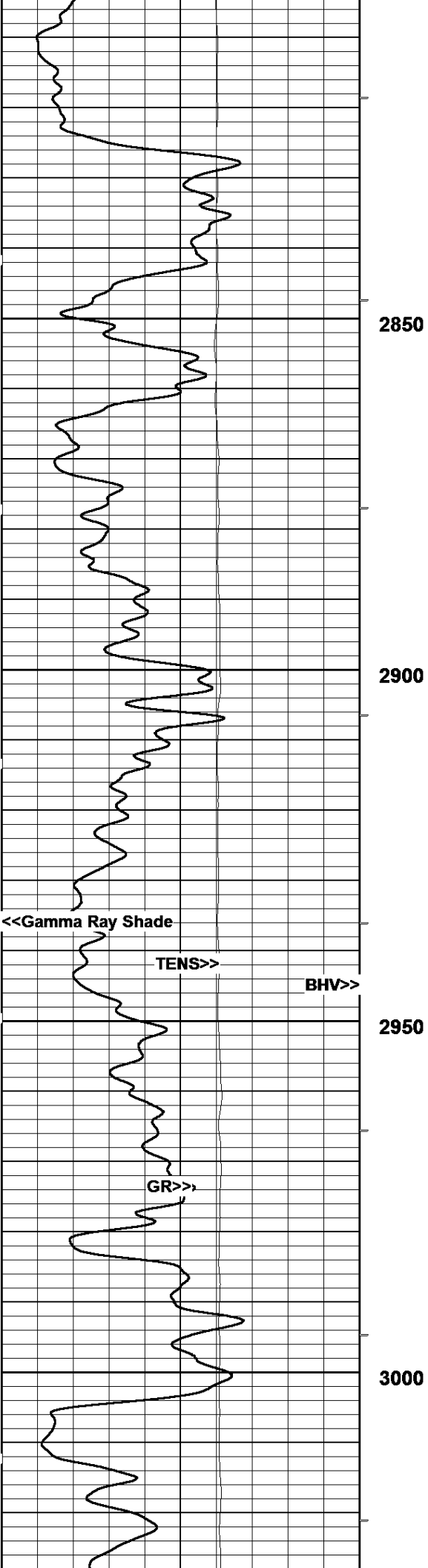


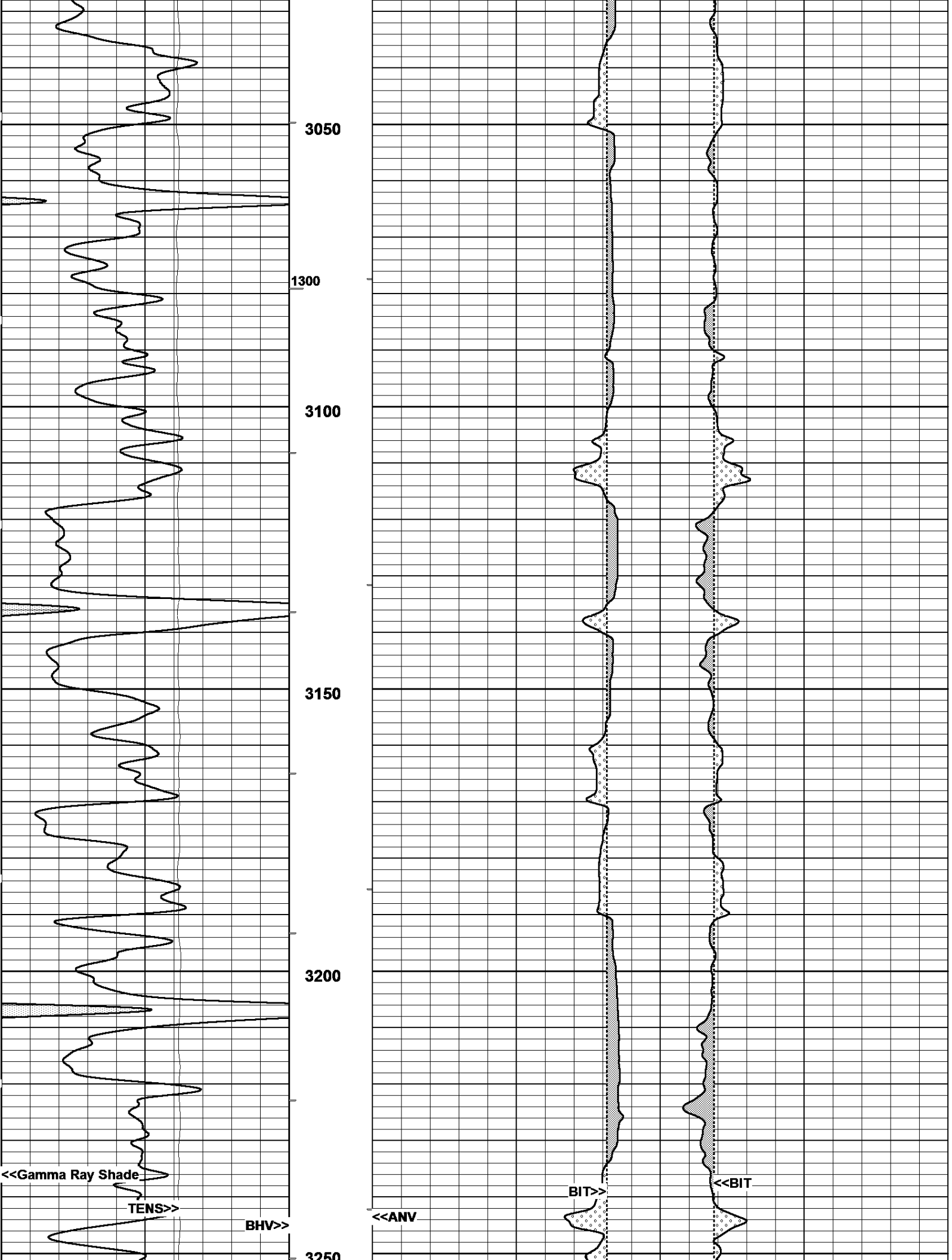


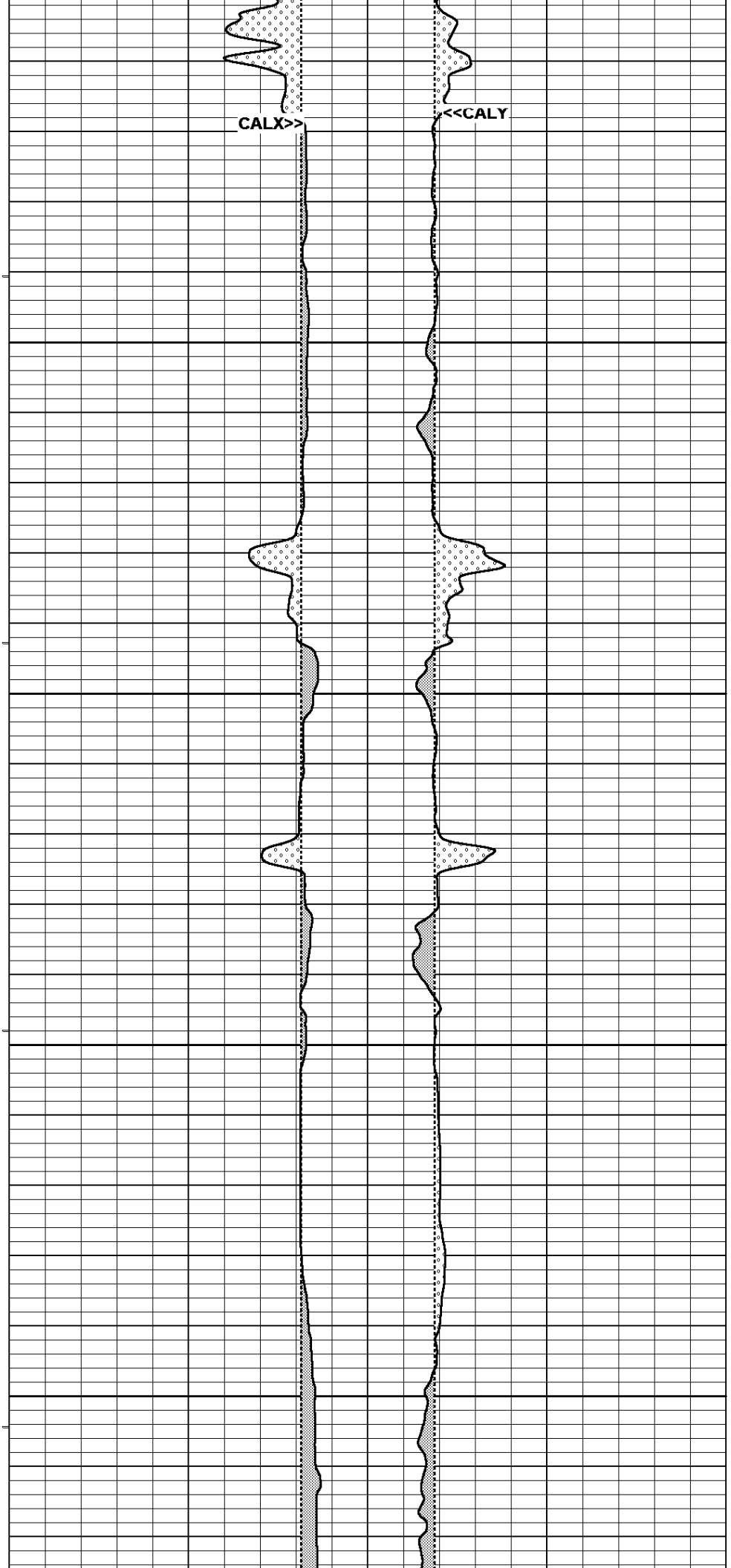
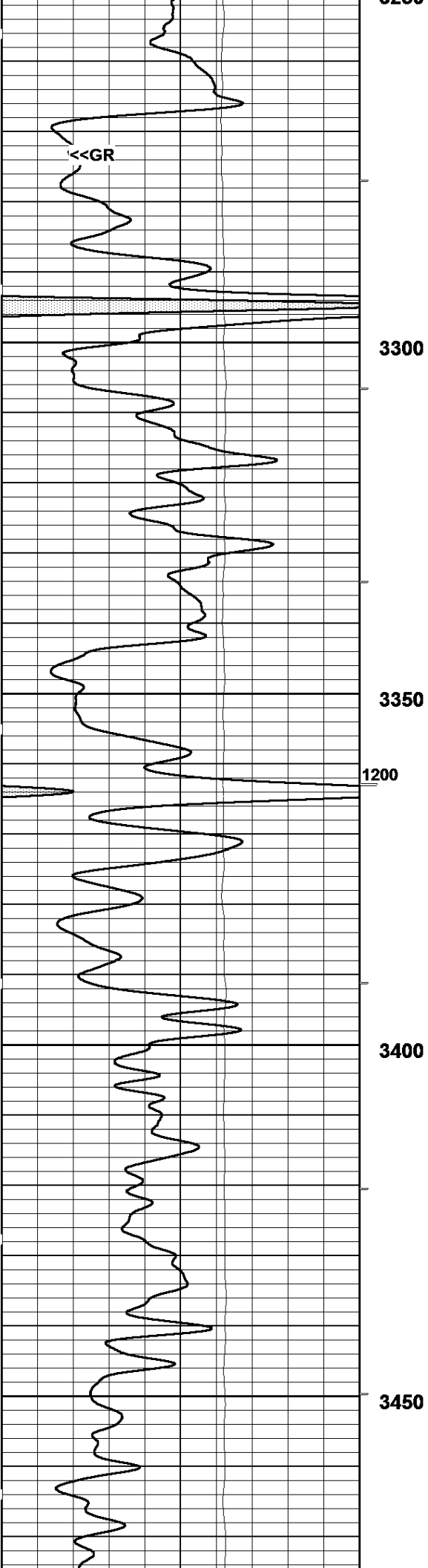


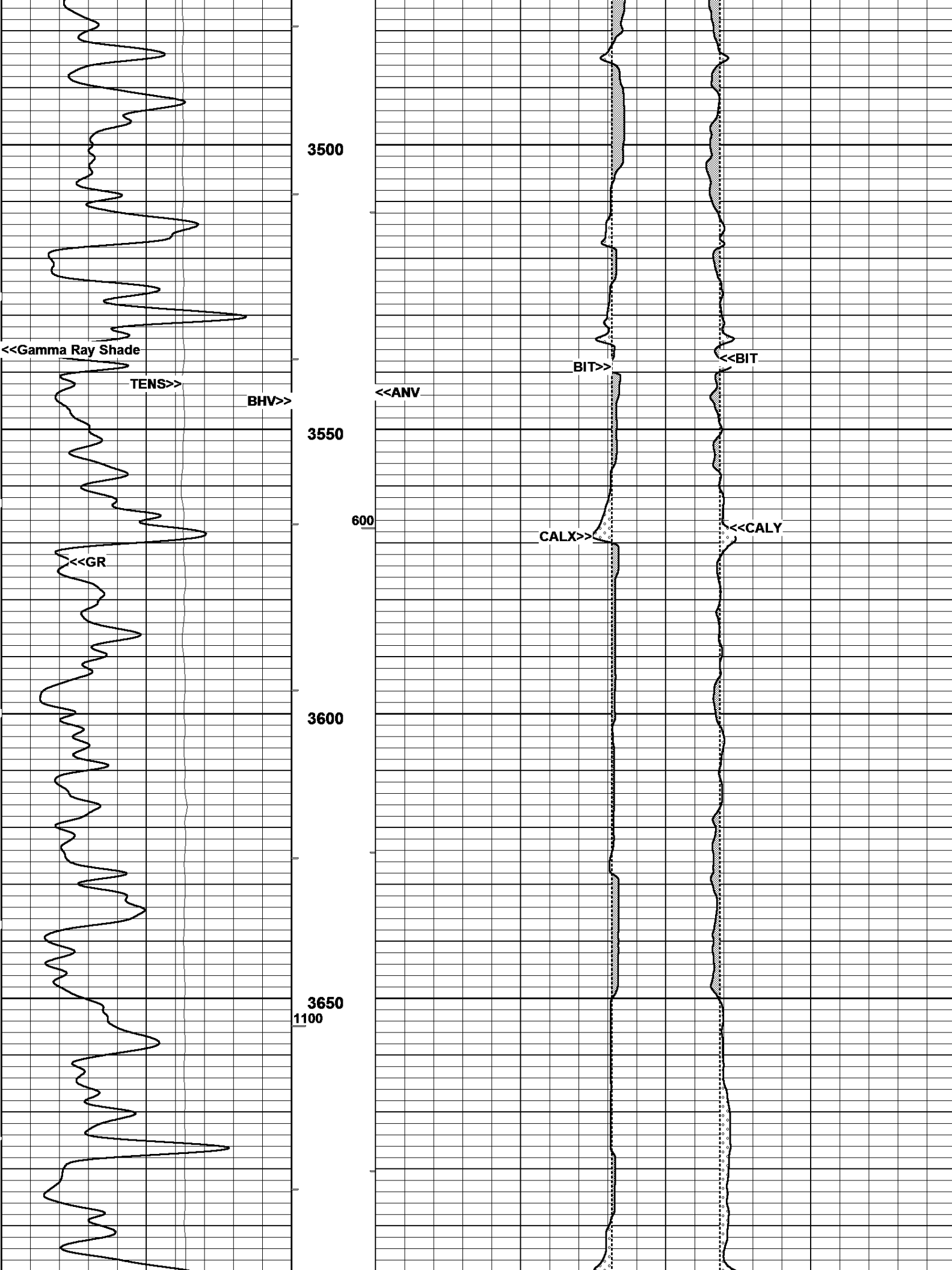


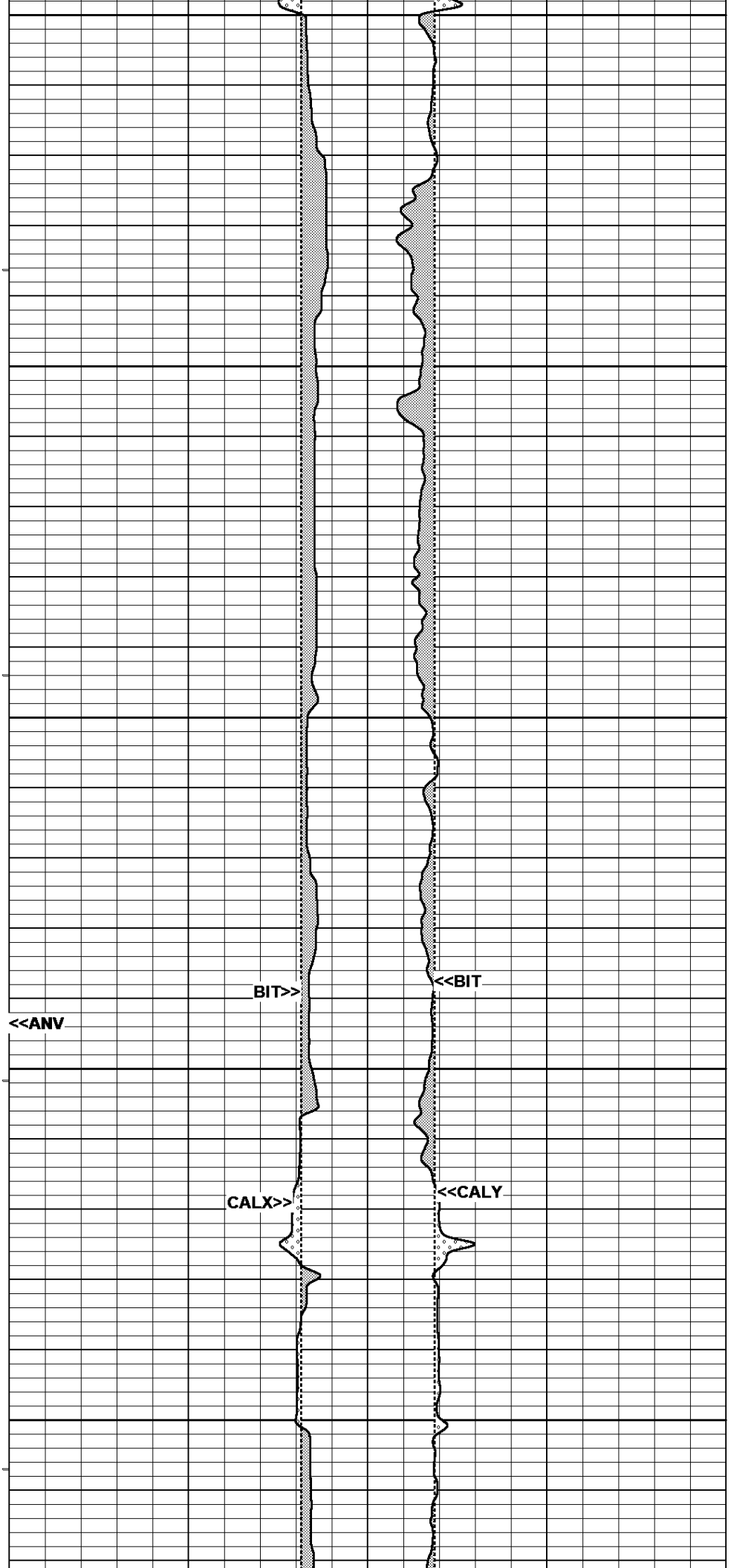
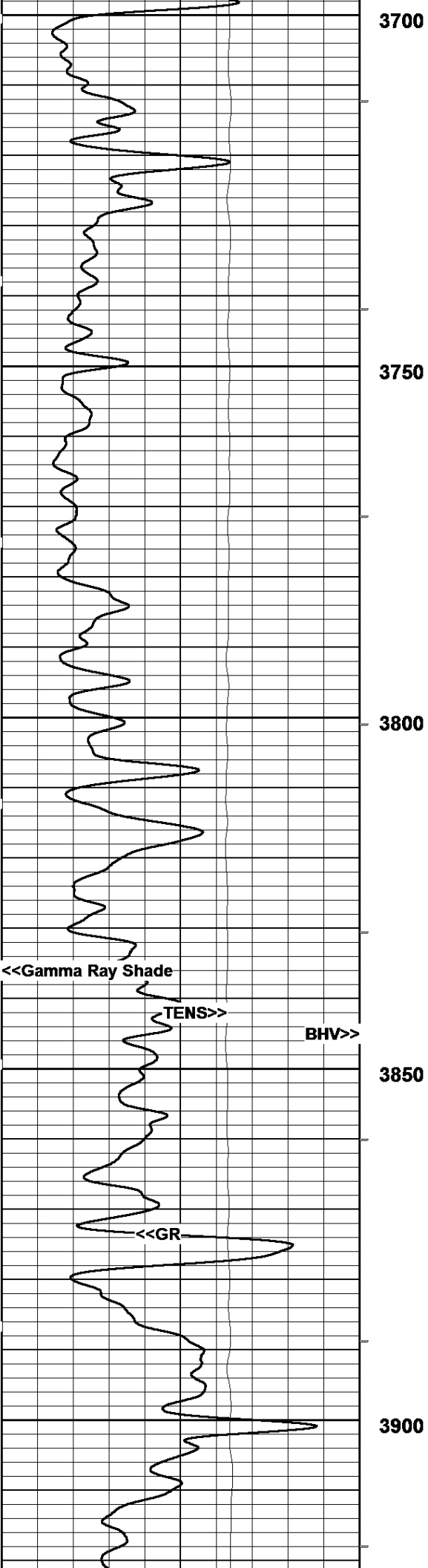


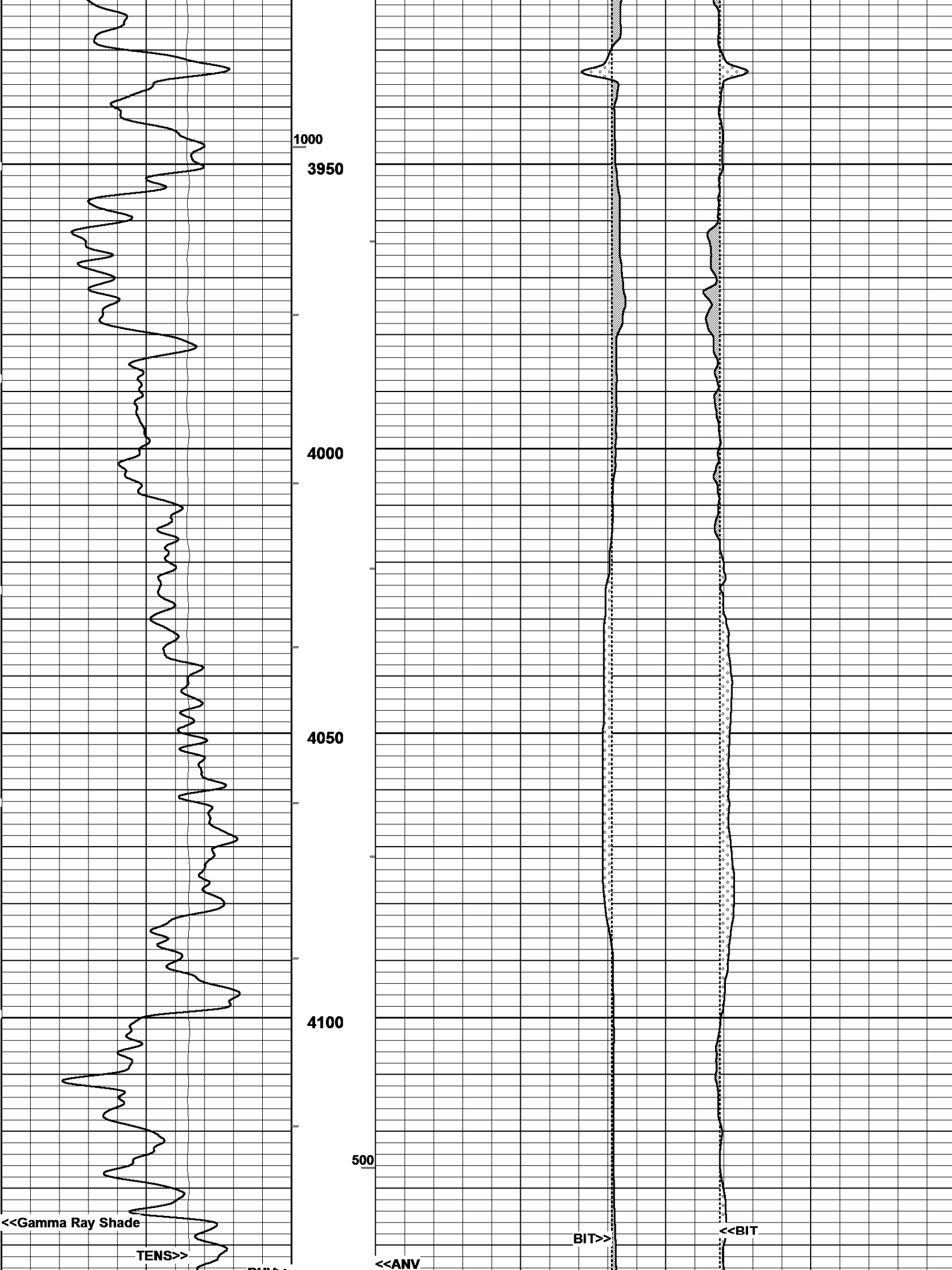


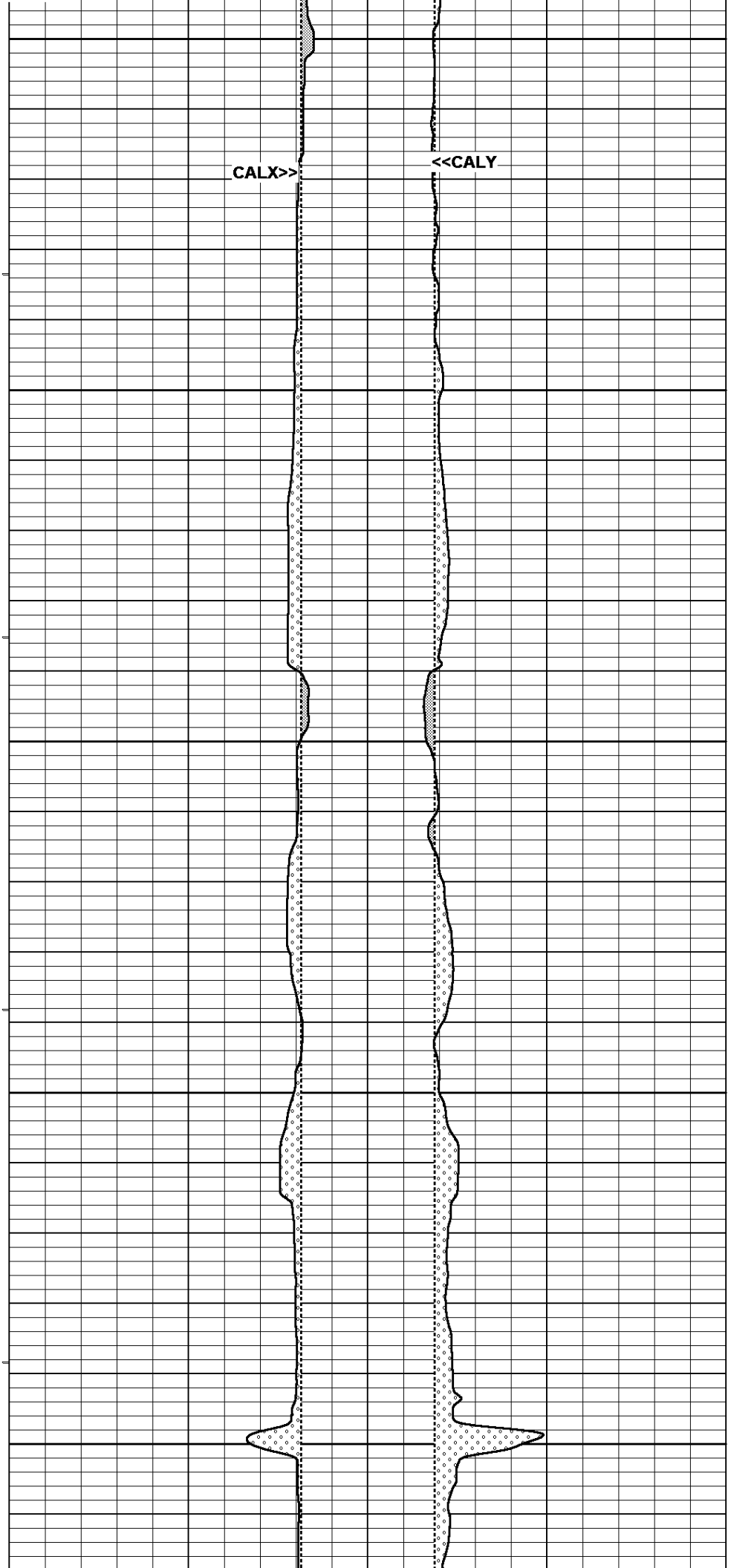
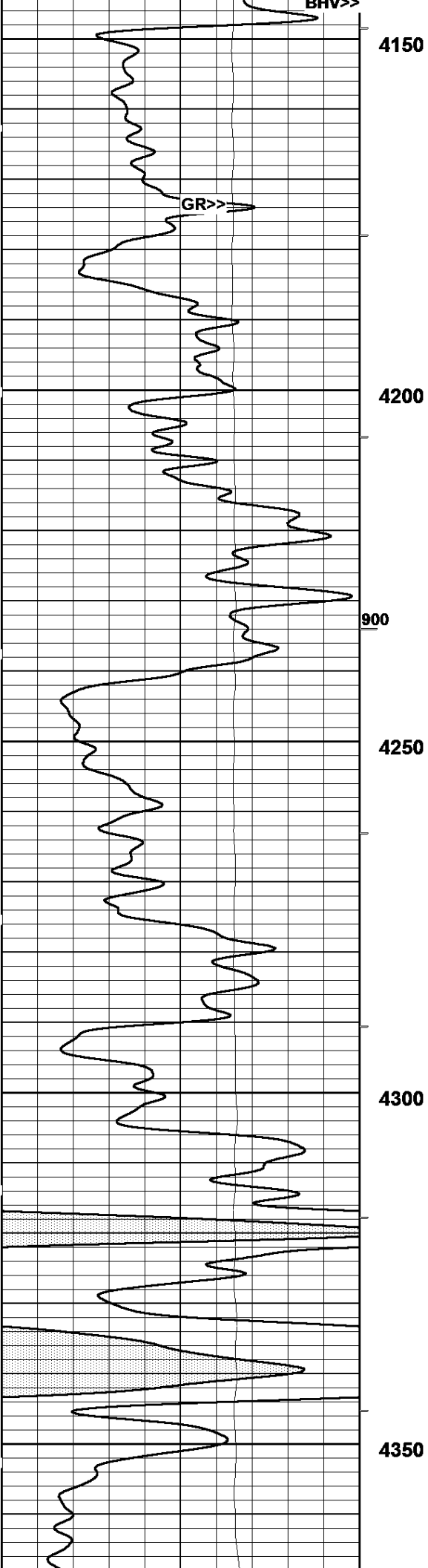


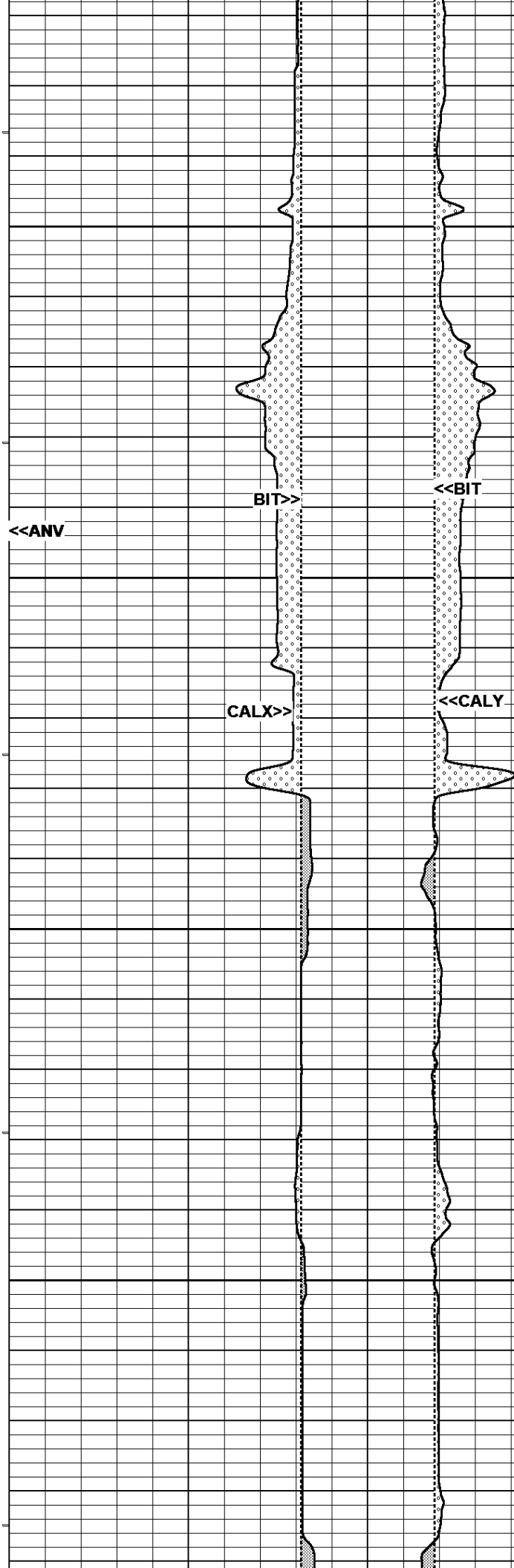
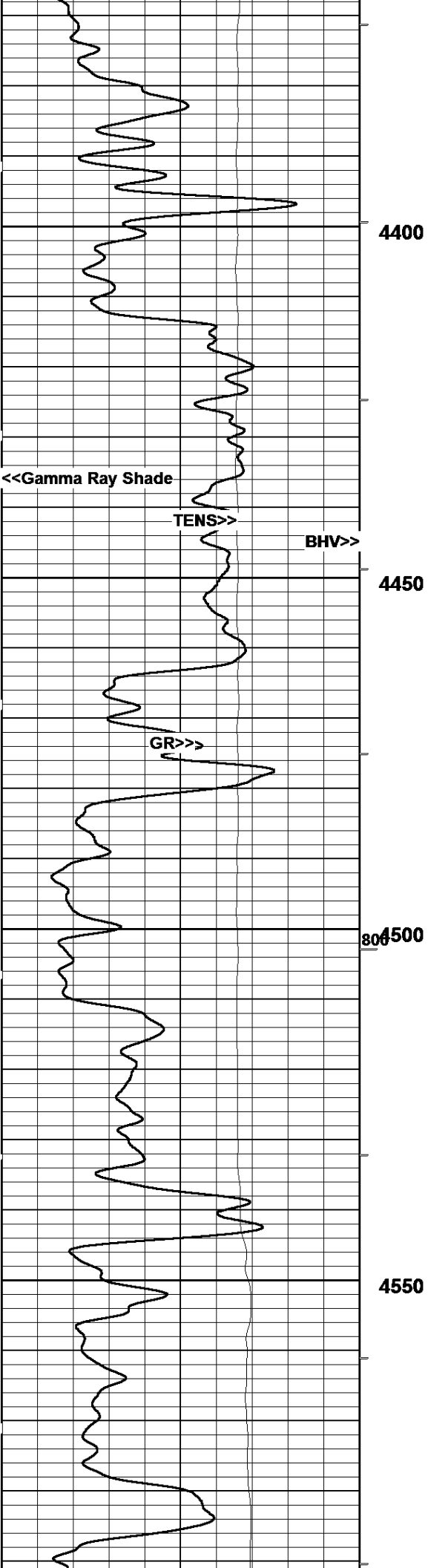


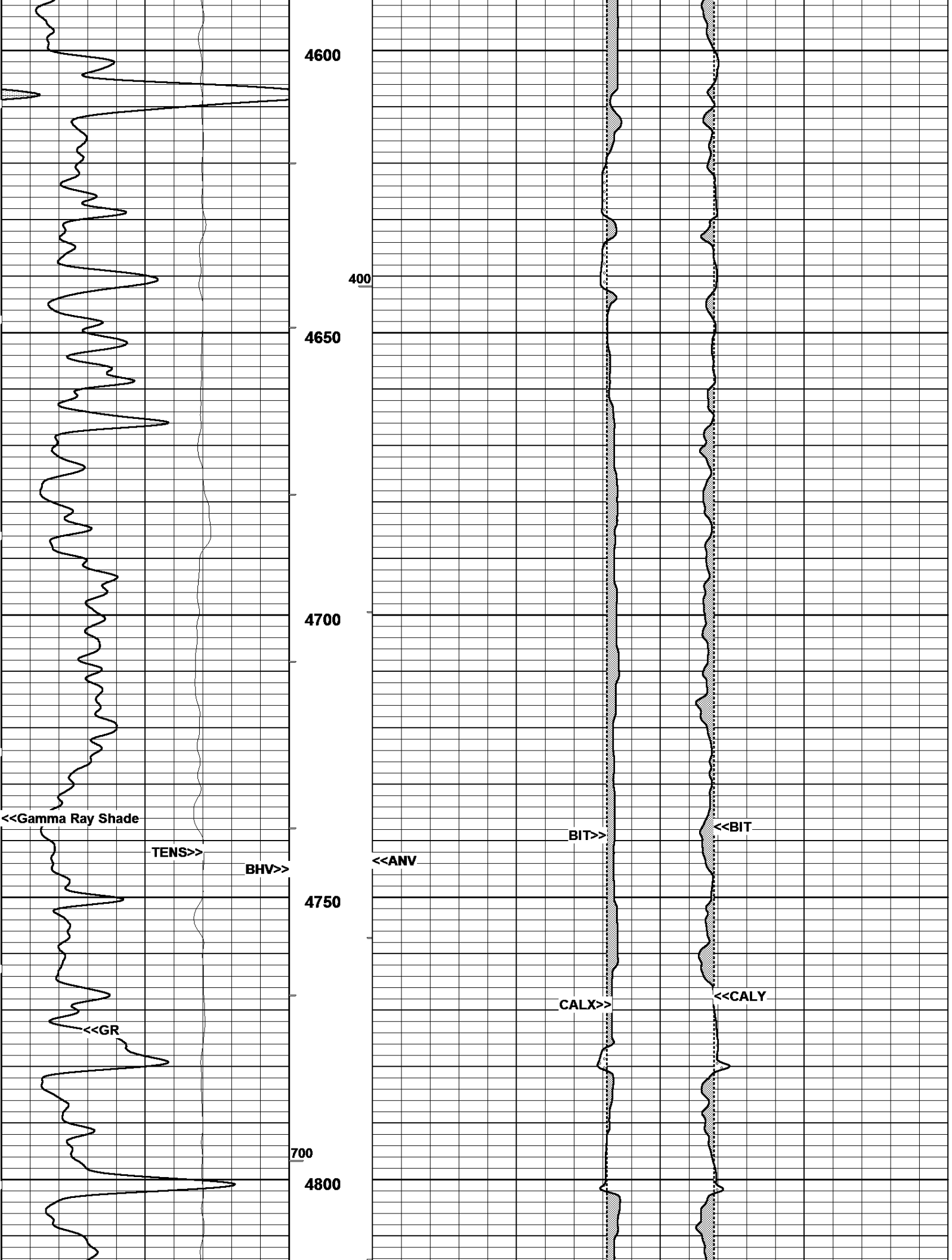


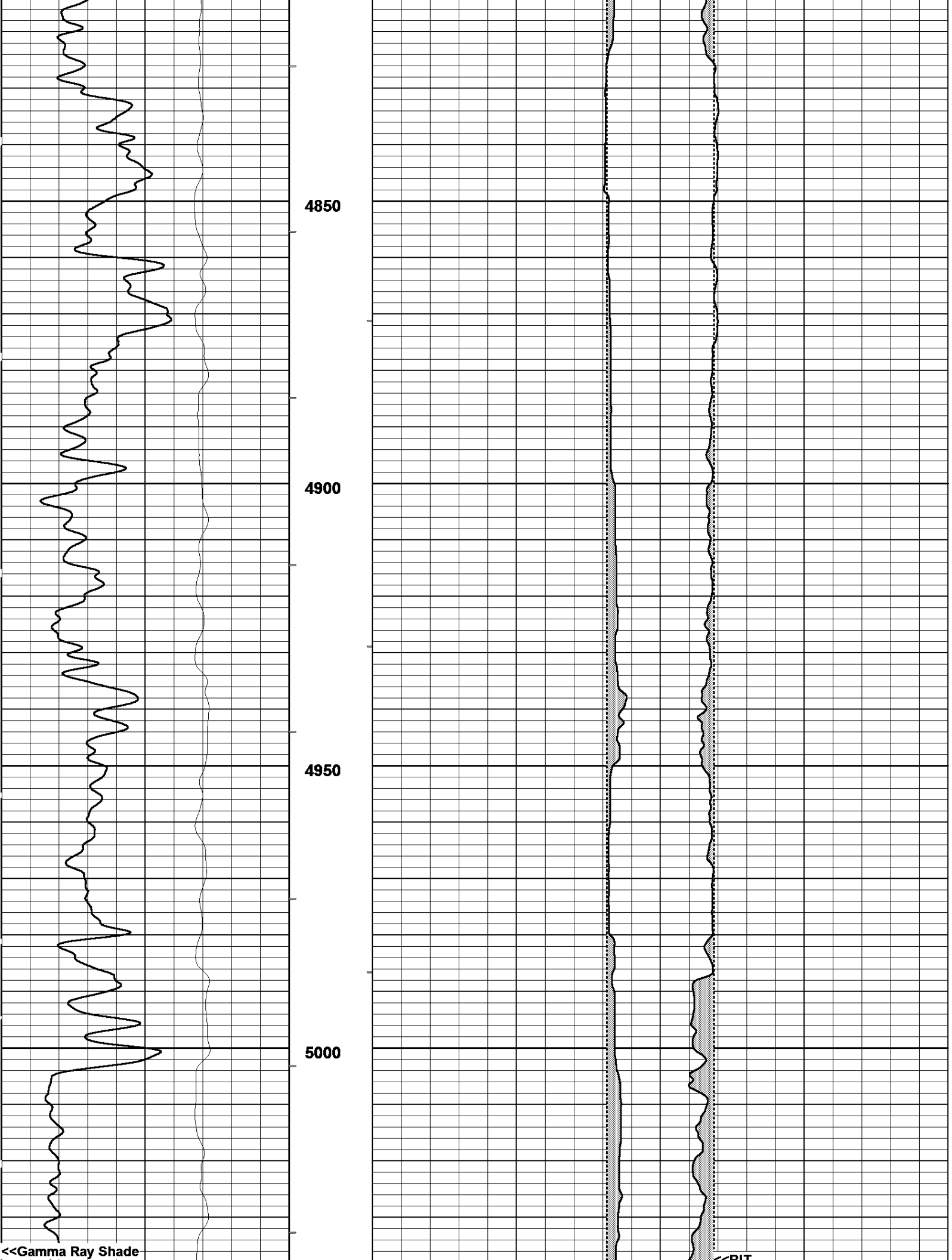


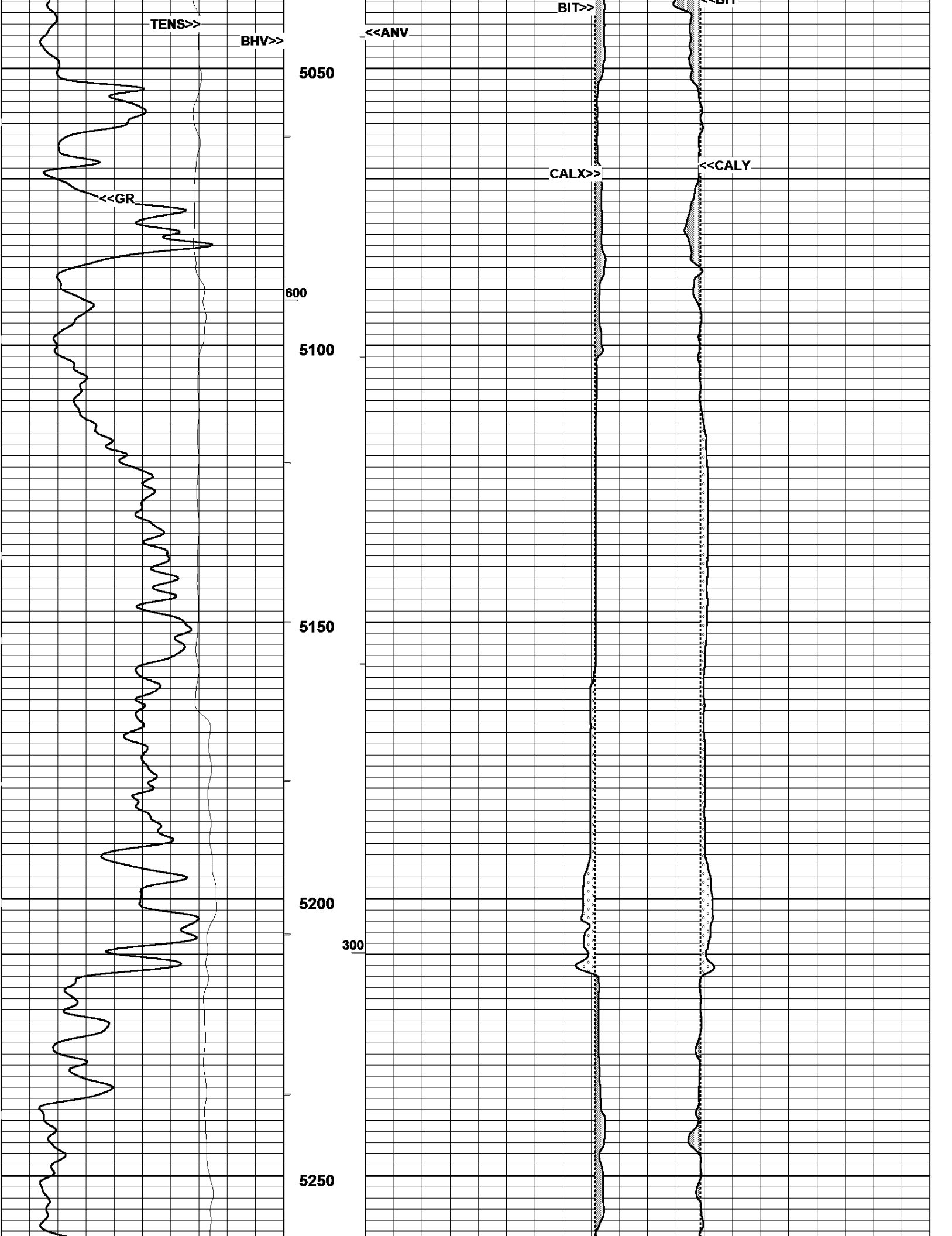


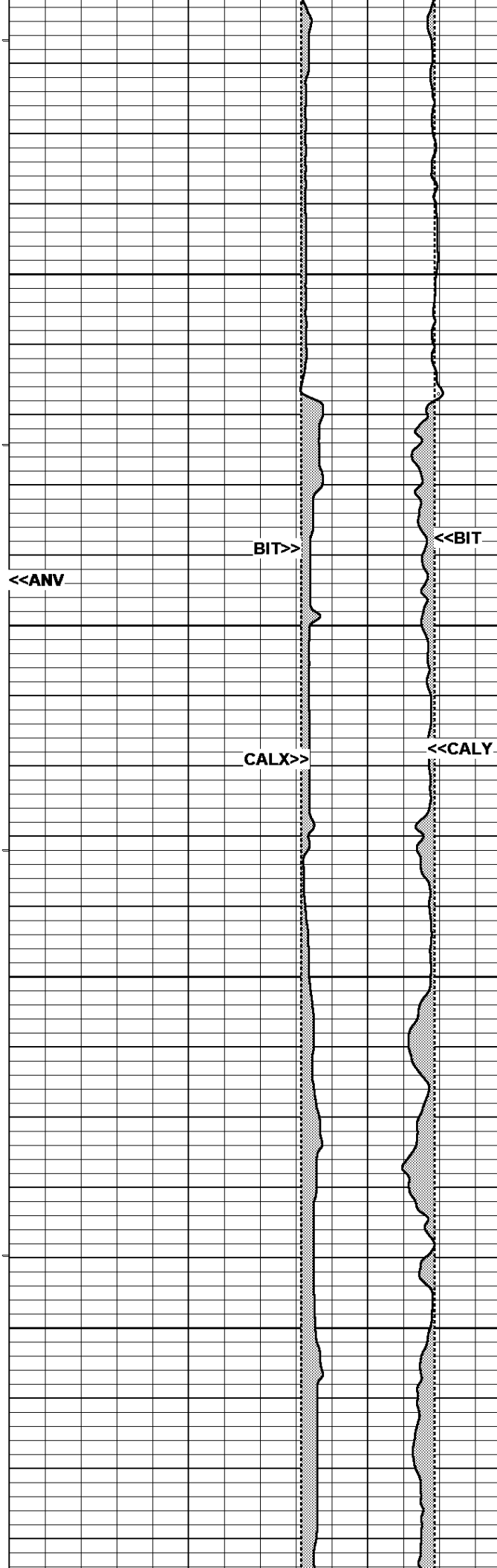
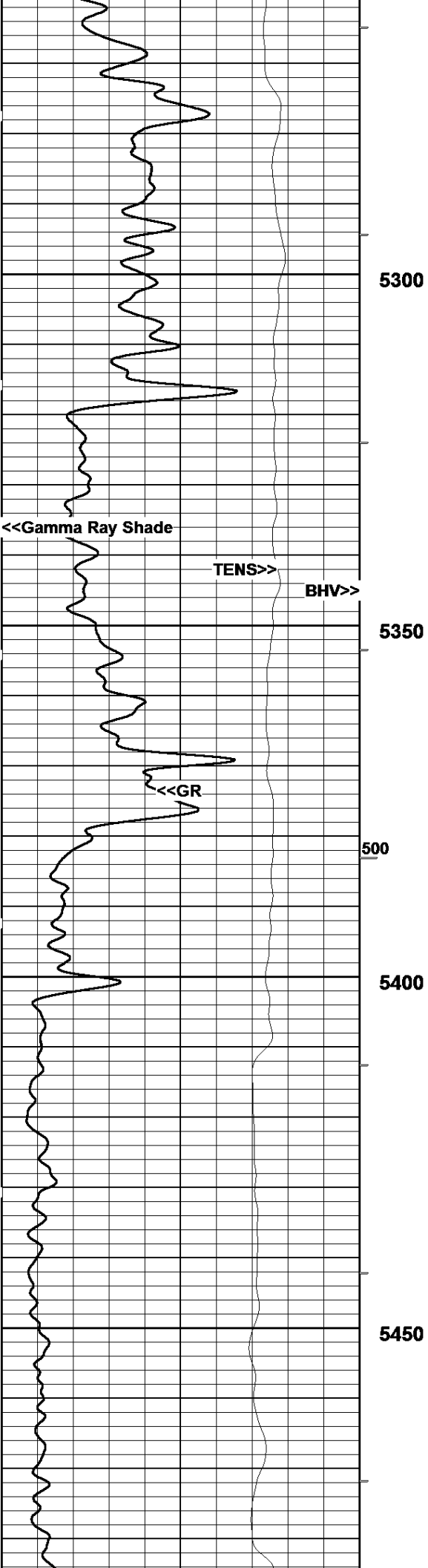


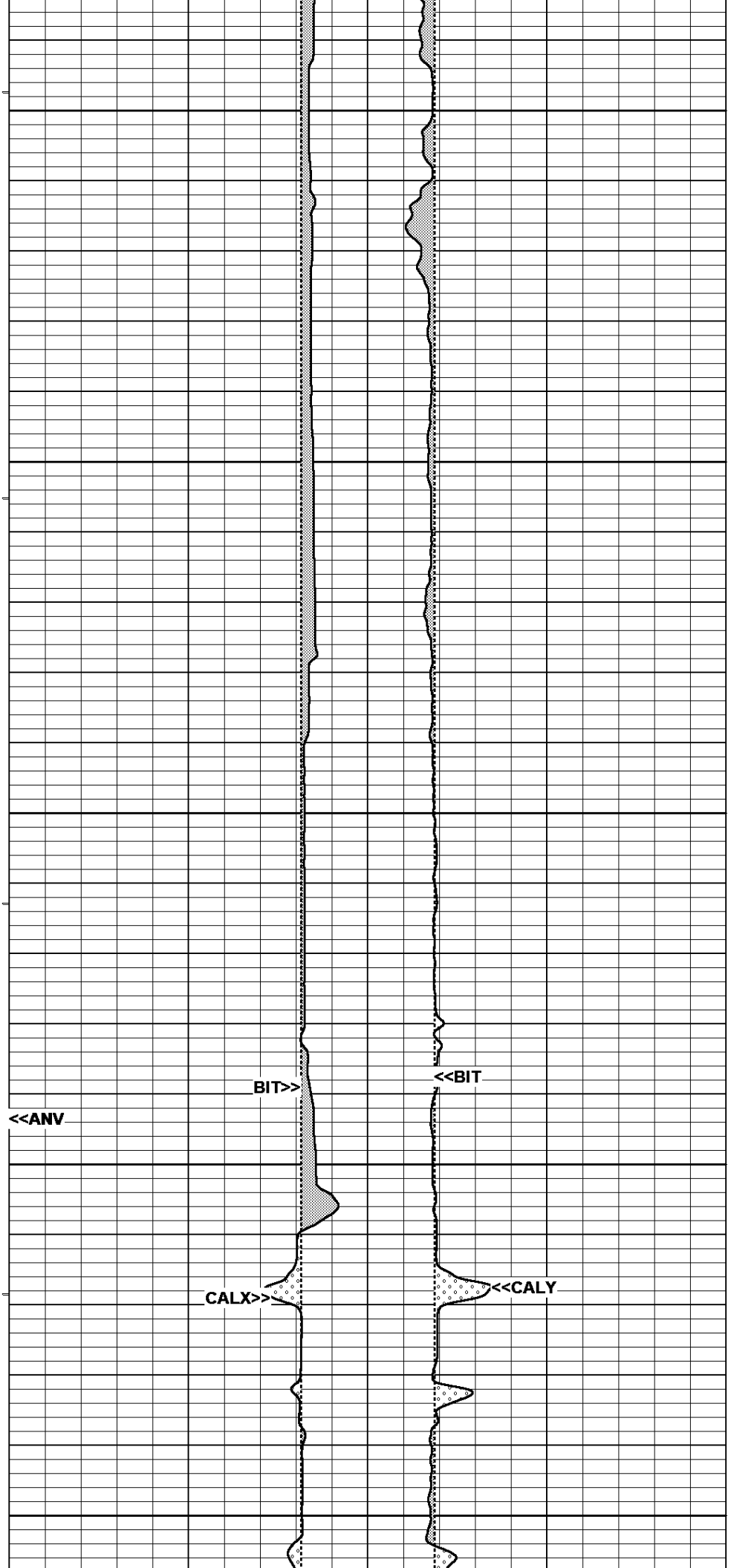
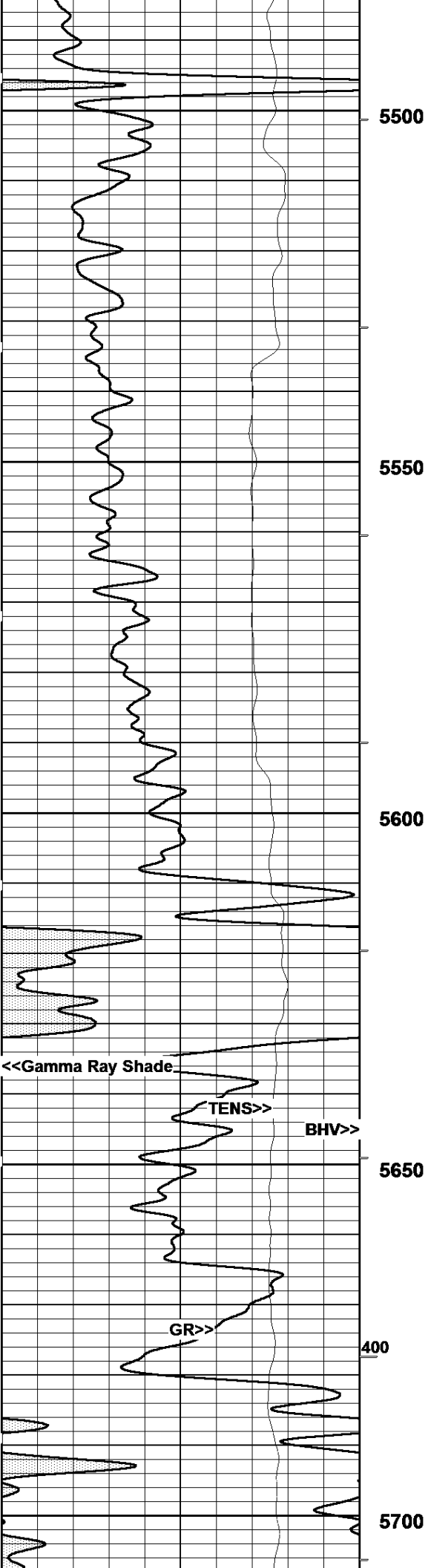


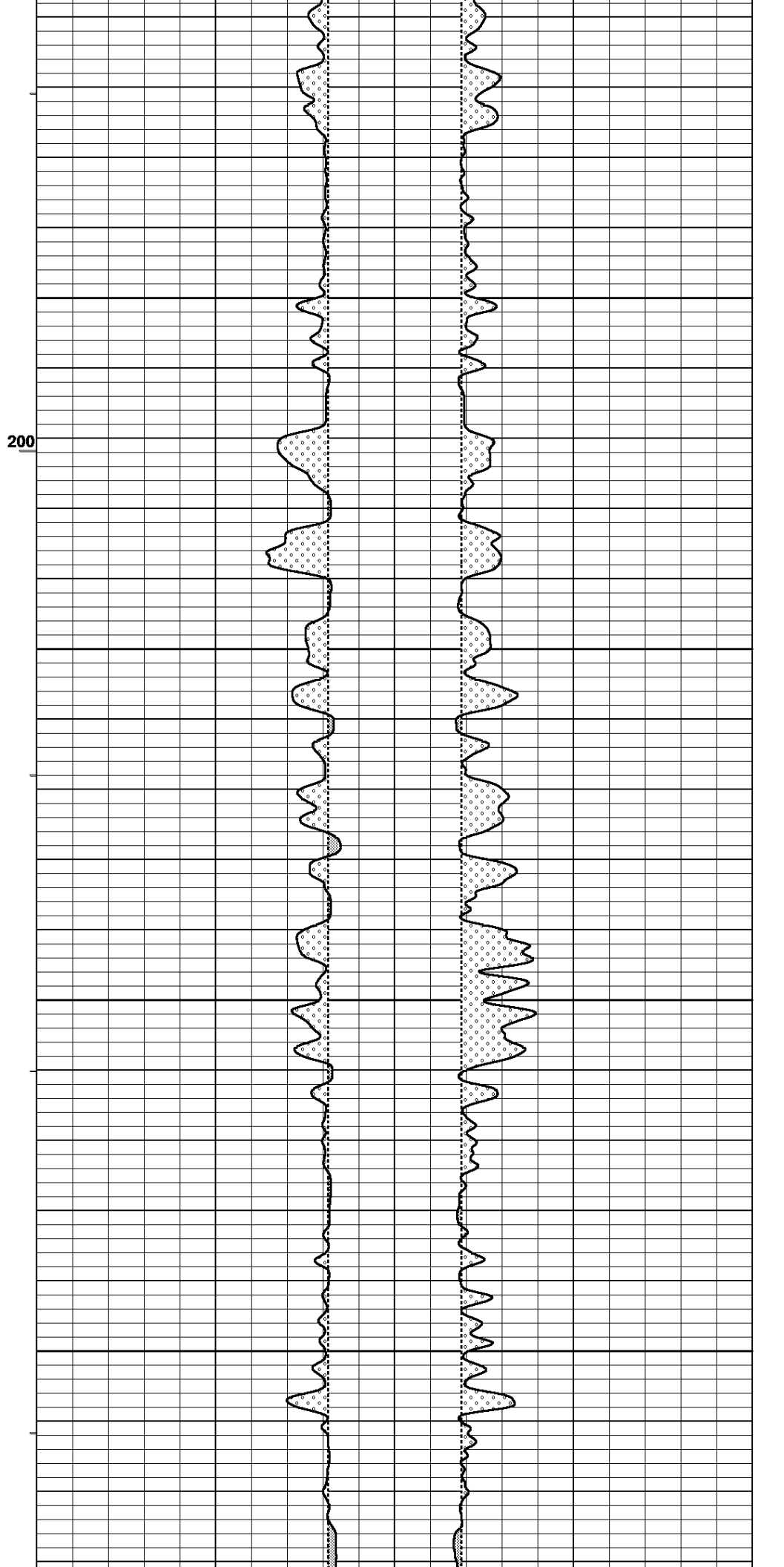
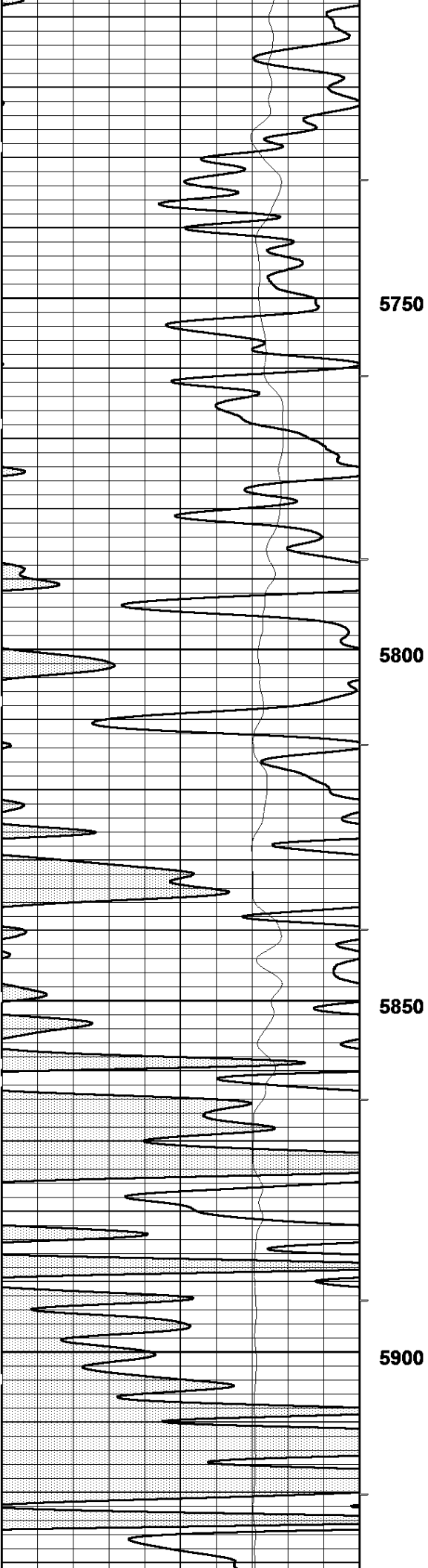


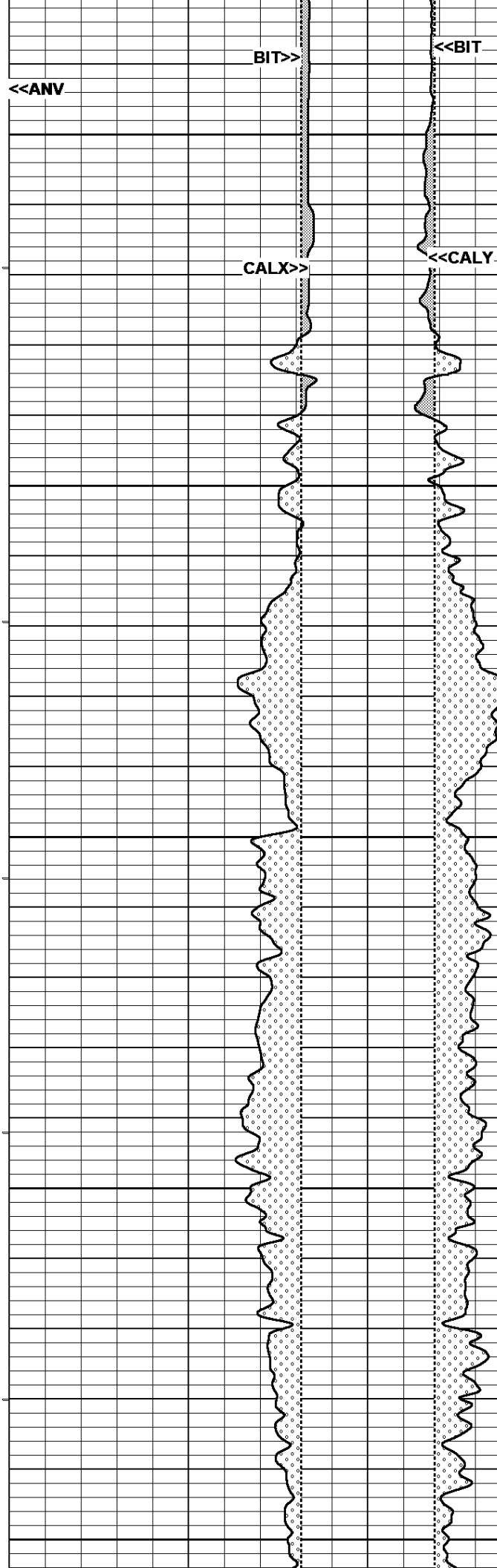
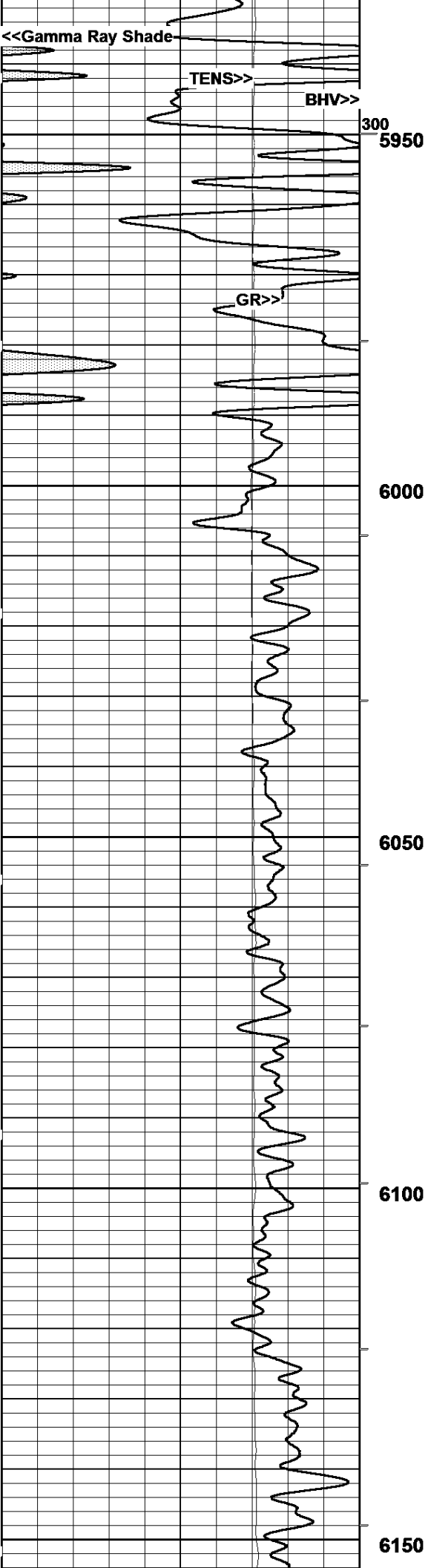


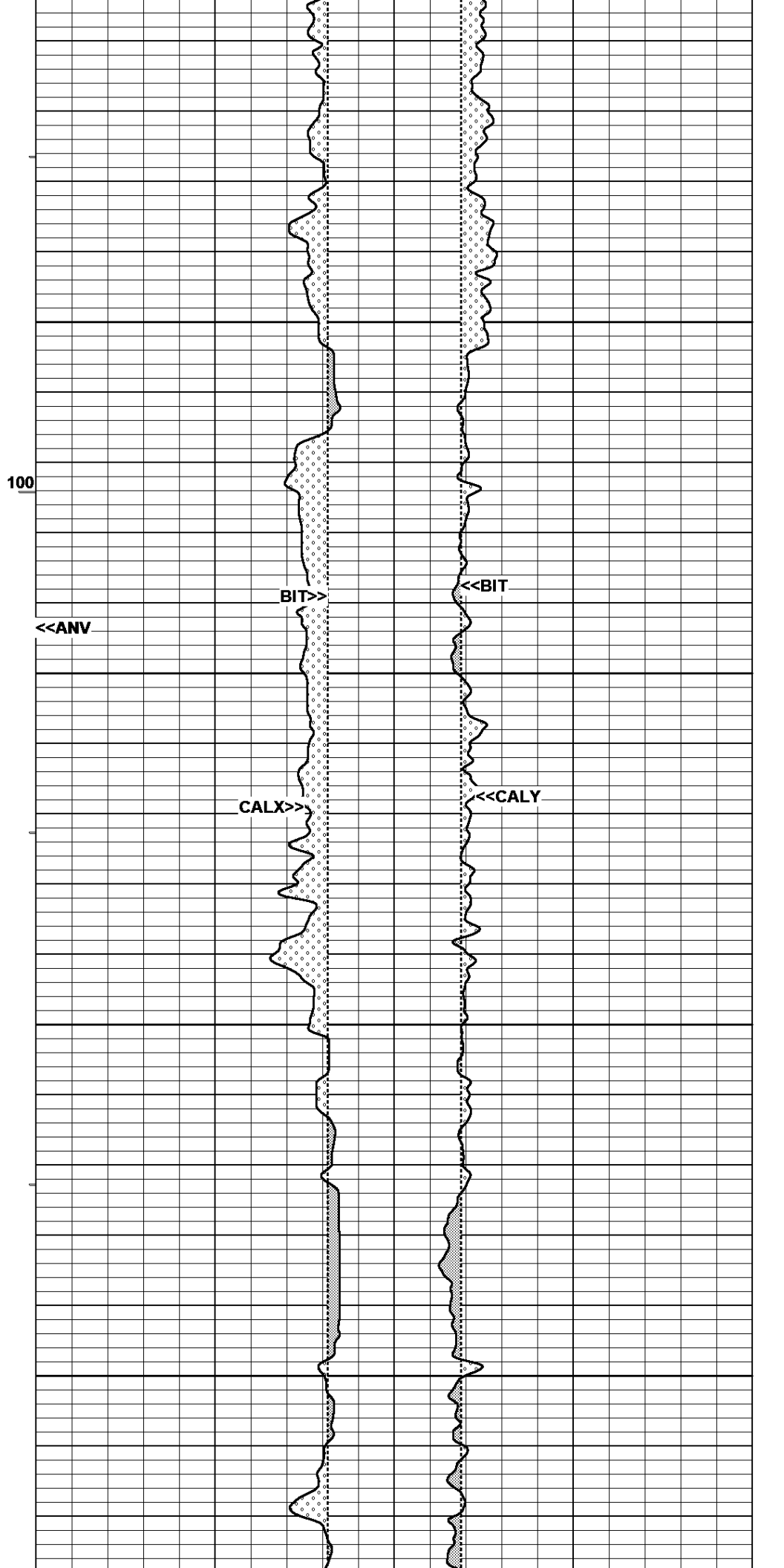
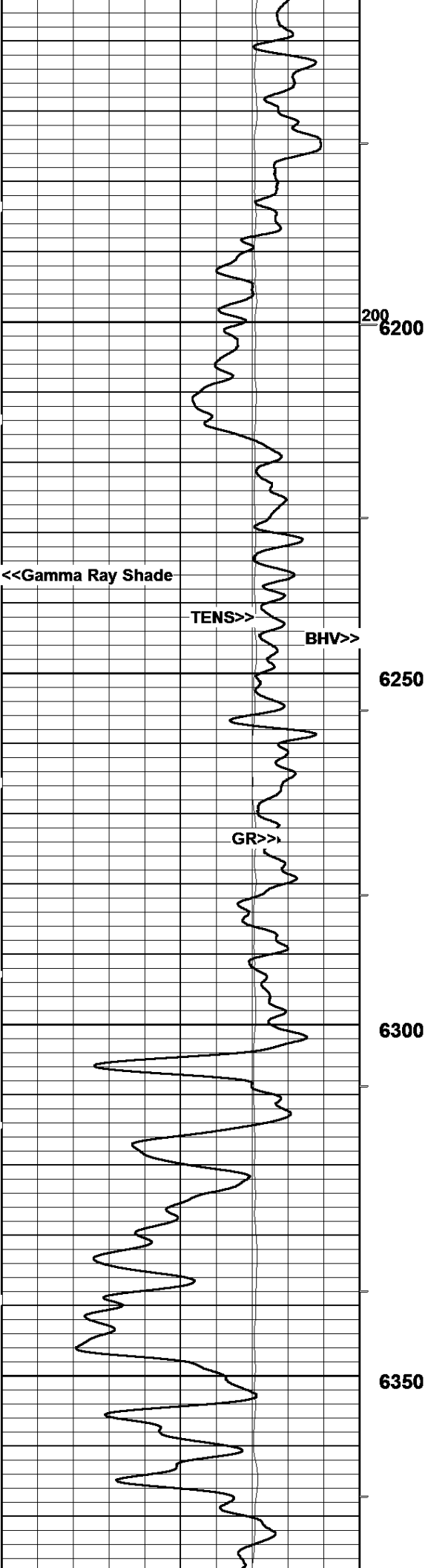


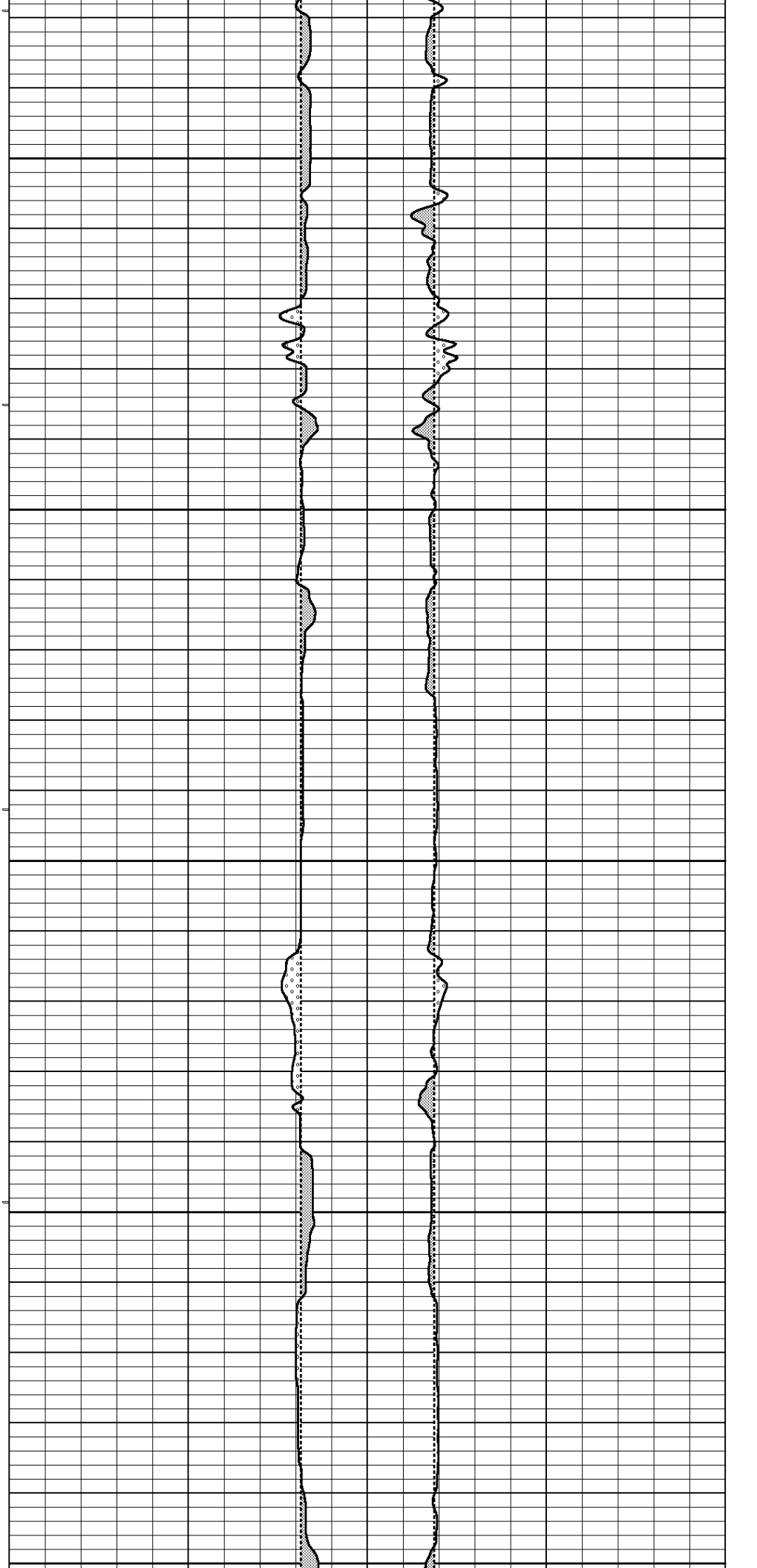
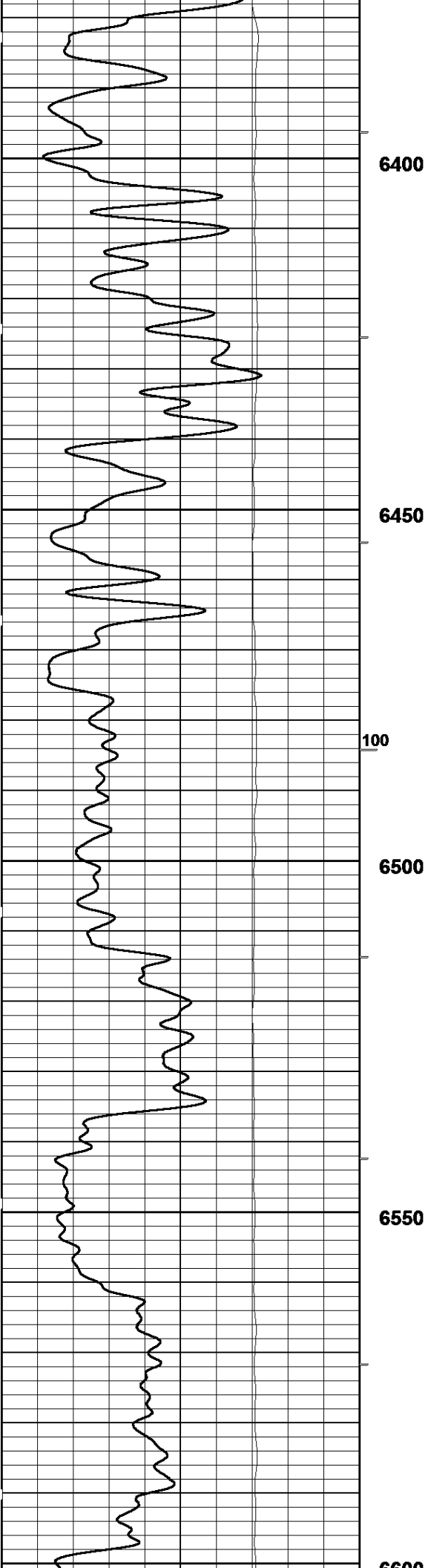


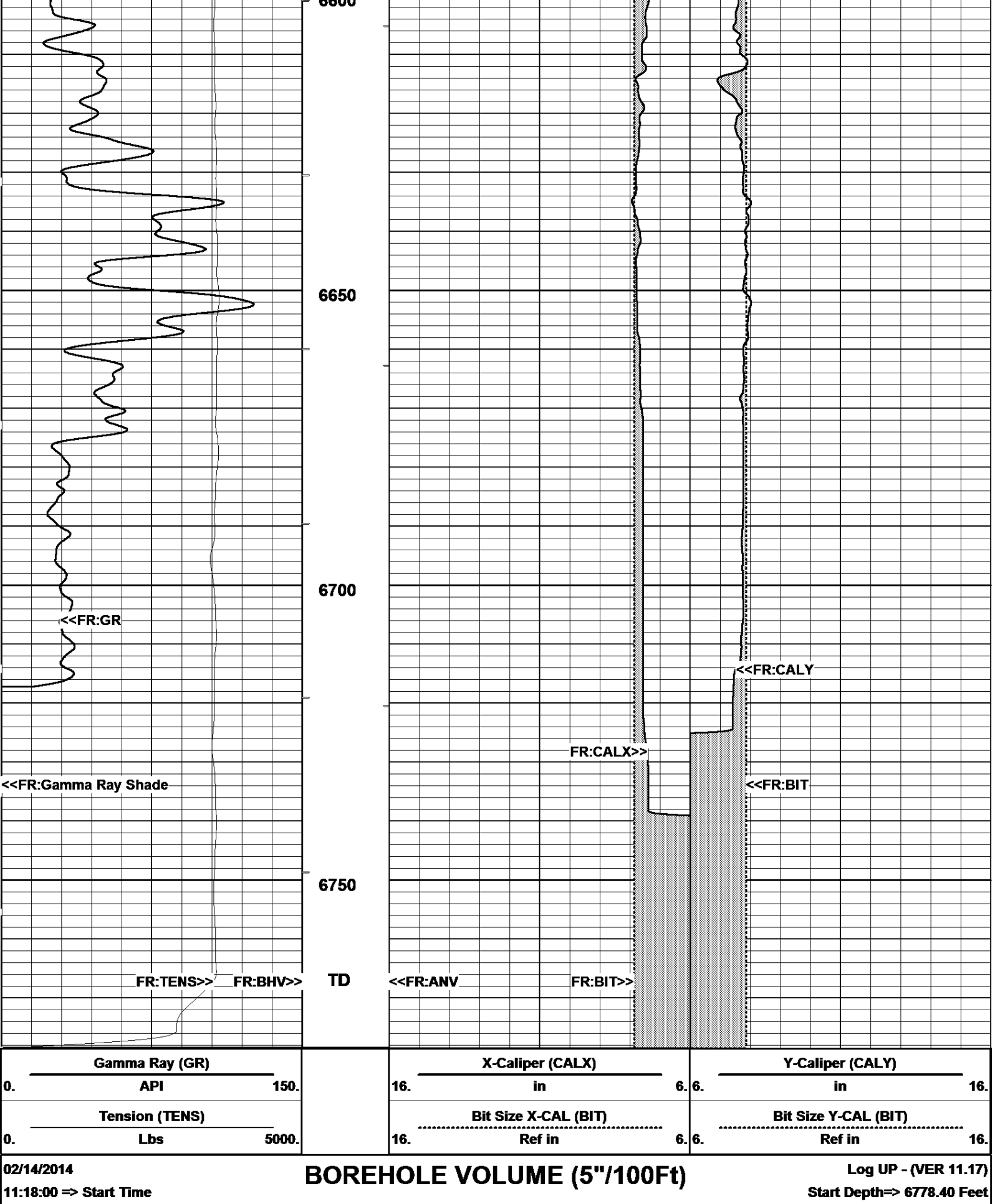












GAMMA RAY CALIBBRATIONS

SERIAL NUM	RG3007
BLANKET NUM	1A

MASTER CALIBRATIONS

	BackGrnd	CalVal: 135.000 API	Gain/Offset	CALIBRATION DATE	CALIBRATION TIME
BASE CALS	33.583 - raw	217.987 - raw	0.732 - gain 0.000 - off	M/D/Y> 2/12/2014	H:M:S> 16:16:1

X CALIPER

SERIAL NUM	RL4102

MASTER CALIBRATIONS

	ZeroVal: 6.000 in	CalVal: 10.000 in	Gain/Offset	CALIBRATION DATE	CALIBRATION TIME
BASE CALS	2670.674 - raw	4680.506 - raw	0.002 - gain 0.685 - off	M/D/Y> 2/12/2014	H:M:S> 9:44:45

Y CALIPER CALIBRATIONS

SERIAL NUM	RN2002

MASTER CALIBRATIONS

	ZeroVal: 6.000 mm	CalVal: 10.000 mm	Gain/Offset	CALIBRATION DATE	CALIBRATION TIME
BASE CALS	1237.107 - raw	1865.787 - raw	0.006 - gain -1.871 - off	M/D/Y> 2/12/2014	H:M:S> 16:4:47

Company	MIDWESTERN EXPLORATION COMPANY
Well	GARMAN #2-18
Field	GOOCH
County	STEVENS
State	KANSAS



BOREHOLE
VOLUME
X-Y CALIPER



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