

CompanyRED OAK ENERGY, INC.

WellMATHERS #1-2

FieldWILDCAT

CountyLOGAN

StateKANSAS

BOREHOLE

VOLUME

X-Y CALIPER

RECON

			OTHER SERVICES:	
SEC	TWP	RGE	DIL	LDT
02	12S	32W	CNL	MEL
Location, 2073' FNL & 1257' FEL				
SURF. SAME		AP#.	15-109-21385-00-00	
Permanent Datum	Ground Level	Elev	ELEVATIONS	
Log Measured From	Kelly Bushing		K.B.	3000
Drilling Measured From	Kelly Bushing		G.L.	2989
			D.F.	2999

Date	29-JAN-2015				
Run No.	ONE				
TD Driller	4832	ft.			ft.
TD RECON	4834	ft.			ft.
Bot Logged Interval	4833	ft.			ft.
Top Logged Interval	2600	ft.			ft.
Casing Depth Driller	8 5/8	in.	@ 225		in.
Casing Depth RECON	8 5/8	in.	@ 224		in.
Bit Size	7 7/8	in.			in.
Drilling Fluid Type	WBM				
Density	Viscosity	9.4 ppg	60 sec/qt		
Fluid Loss	PH	6.8 cc/30min	11.0 strip		
Source Of Sample	Flowline				
RM @ Measured Temp	1.102	Ohmm	@ 75		Ohmm @
RMF @ Measured Temp	0.826	Ohmm	@ 75		Ohmm @
RMC @ Measured Temp	1.377	Ohmm	@ 75		Ohmm @
RM @ MRT	0.679	Ohmm	@ 126		Ohmm @
Max Recorded Temp	126	DegF			DegF
Time Drilling Stopped	28-JAN-2015	23:00			
Time Circulation Stopped	29-JAN-2015	00:00			
Time Logger On Bottom	29-JAN-2015	03:21			
Unit Num	Location	S409	OKLAHOMA CITY, OK		
Recorded By	H. GARCIA				
Witnessed By	MR. S. DEENIHAN				

interpretations made by any of our officers, agents or employees, except in the case of provable Gross Neglegence or willfull damage. Interpretations are also subject to the terms and conditions of our Price Schedule and General Service Agreement.

All interpretations are based on inferences from electrical or other readings, and therefore, RECON cannot and will not guarantee the accuracy of any interpretations of log data. RECON shall not be liable for any loss, costs, damages, or expenses incurred or sustained by anyone resulting from

RIG INFORMATION

Drill Contr/Rig#	MURFIN DRLG. #22

GENERAL REMARKS SECTION

FIRST RUN IN THE HOLE CNL AND LDT LOGGED IN A LIMESTONE MATRIX TOP MARK - 364, BOTTOM MARK - 4768.4 CNL/LDT LOGGED MATRIX: 2.71 g/cc. CHLORIDES: 1900 ppm LCM: 4 ppb THANK YOU FOR USING RECON PETROTECHNOLOGIES LTD.	AHV CALCULATED ON 5.5" PROD. CASING CREW: J. ROSE, B. THOMAS
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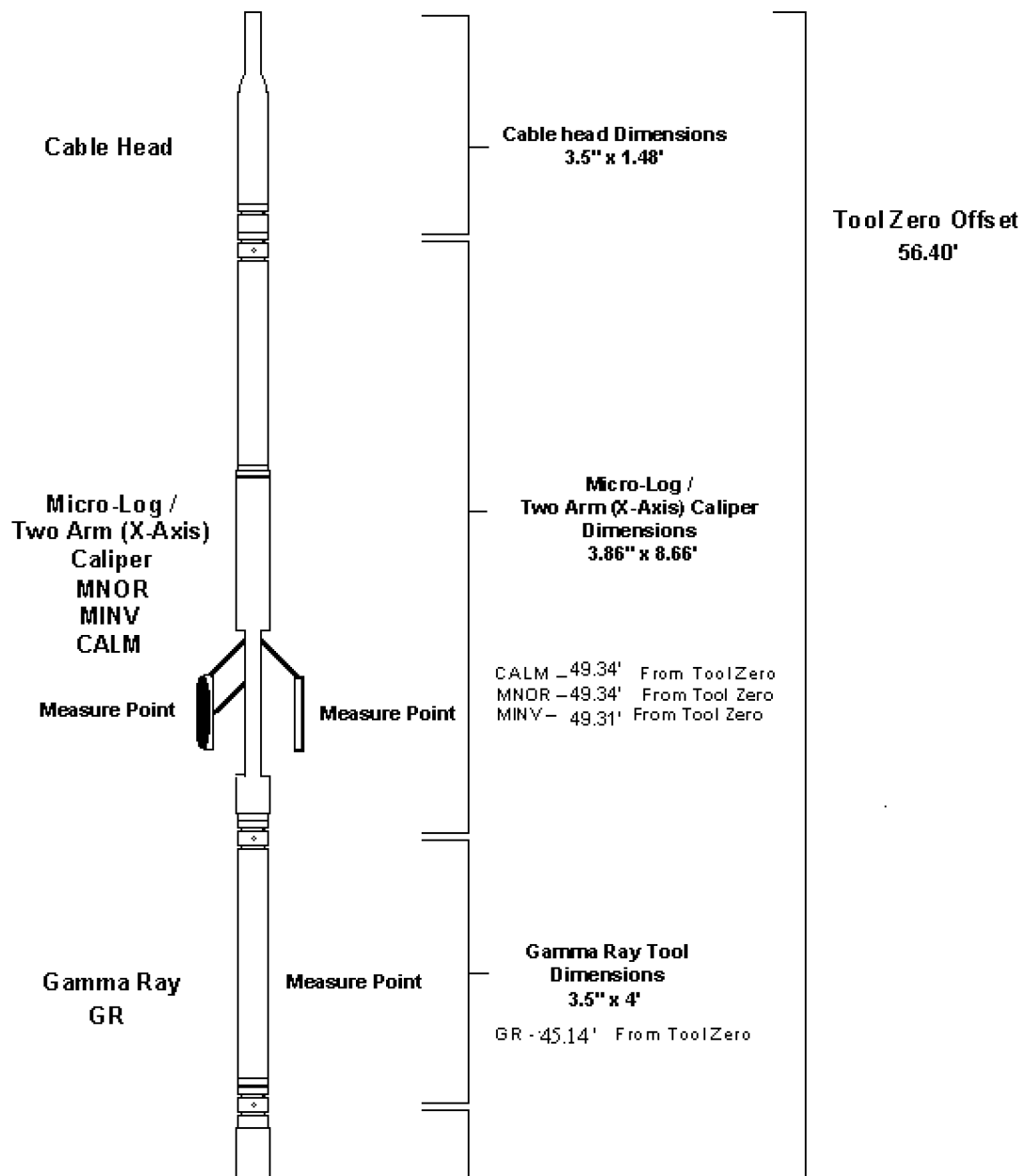
CEMENT VOLUME CALCULATIONS SUMMARY

Tool Type	LDT-CNT	Caliper Type		
Tool Serial #	RN2016 / RL4112			
	Borehole Total	Annular Volume with Casing	From Depth (MKb)	To Depth (MKb)
VOLUMES	1788.512 Cubic Feet	1024.452 Cubic Feet	SCG 224	TD 4834

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	224
INTERMEDIATE CASING	N/A	N/A	N/A	N/A	Surface	N/A
PRODUCTION CASING	5 1/2	J-55	15.5	4.950	Surface	TD

DUAL INDUCTION – SP / GAMMA RAY /
COMPENSATED 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 - 37.14' From ToolZero
CNL LS - 36.32' From ToolZero
CNL SS - 35.73' From ToolZero

Measure Point

Digital Telemetry

Digital Telemetry Section
Dimensions
3.5" x 3.15'

Tool String
Length Total
57.89 '

Compensated
Litho-Density (Pe)
X – Axis Caliper

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

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

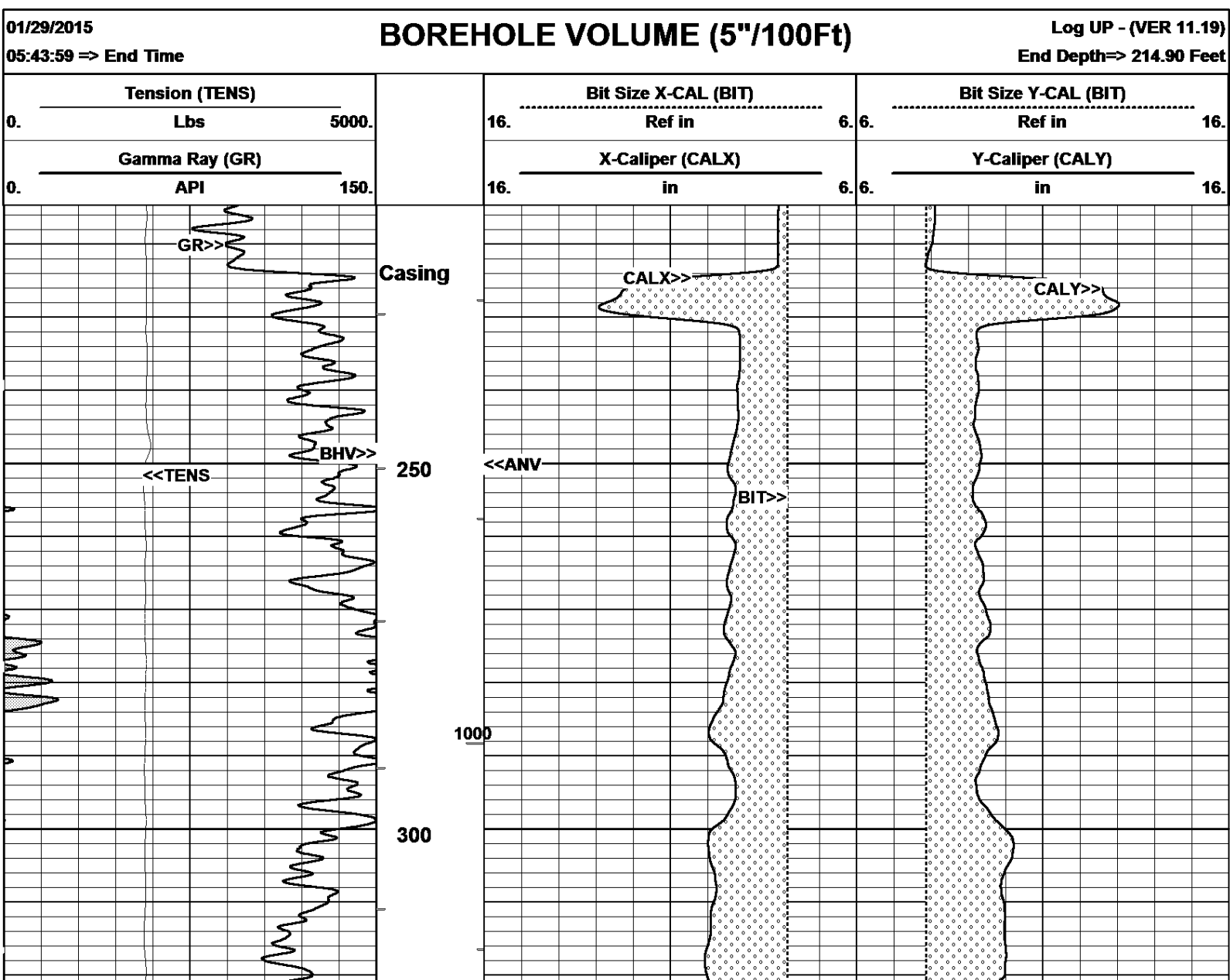
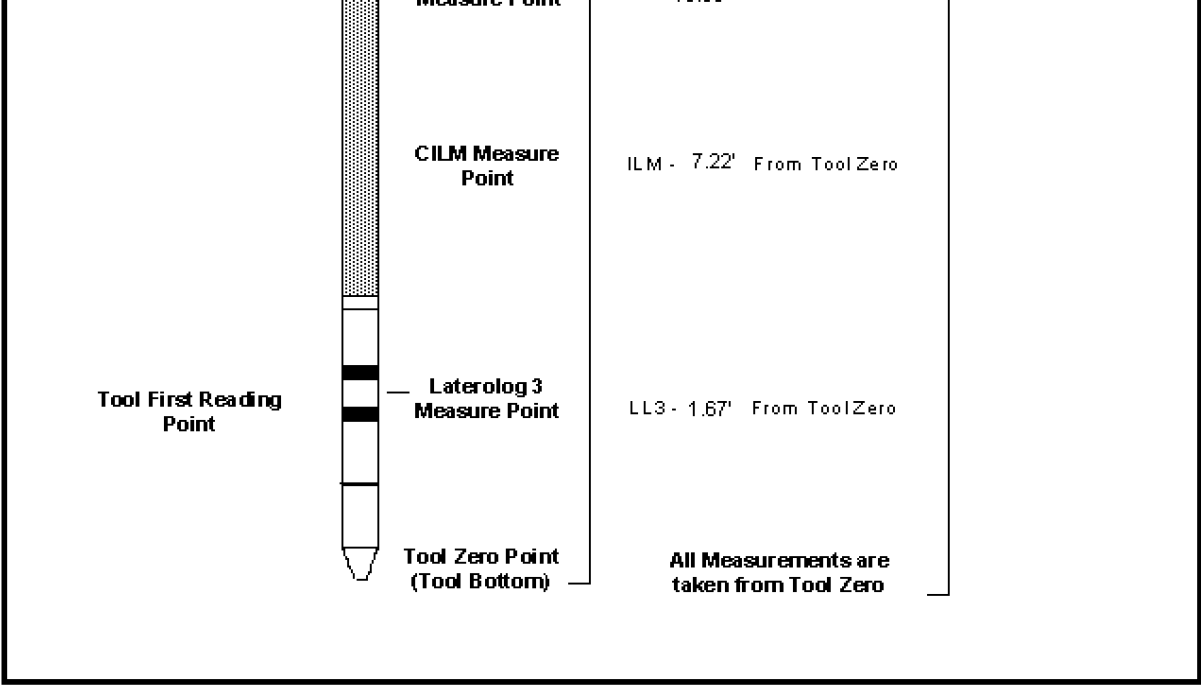
CALX - 23.20' From ToolZero
LDT w1 -
LDT w2 -
LDT w3 - 22.93' From ToolZero
LDT w4 -
LDT SS - 22.44' From ToolZero

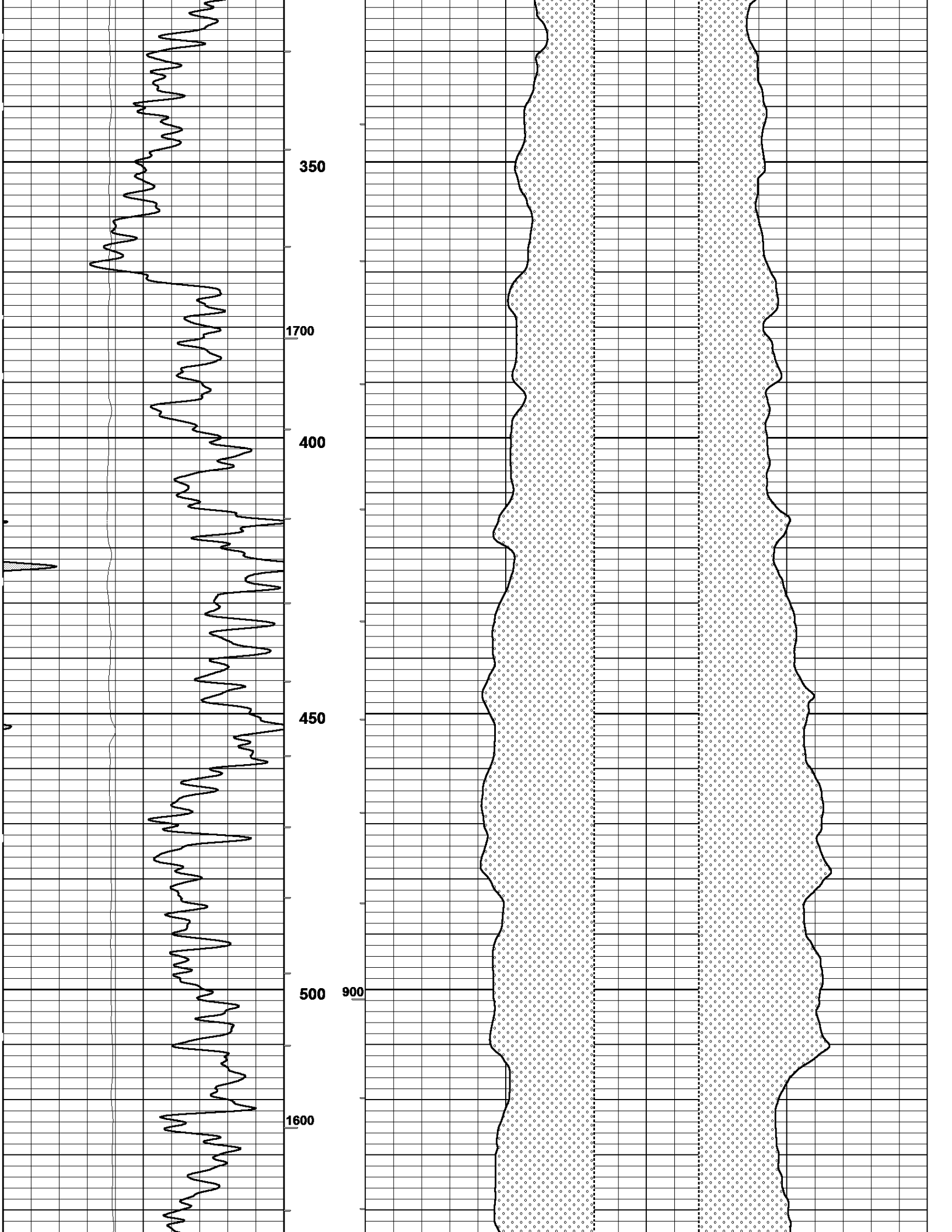
Dual Induction
SP
ILD
ILM
LL3

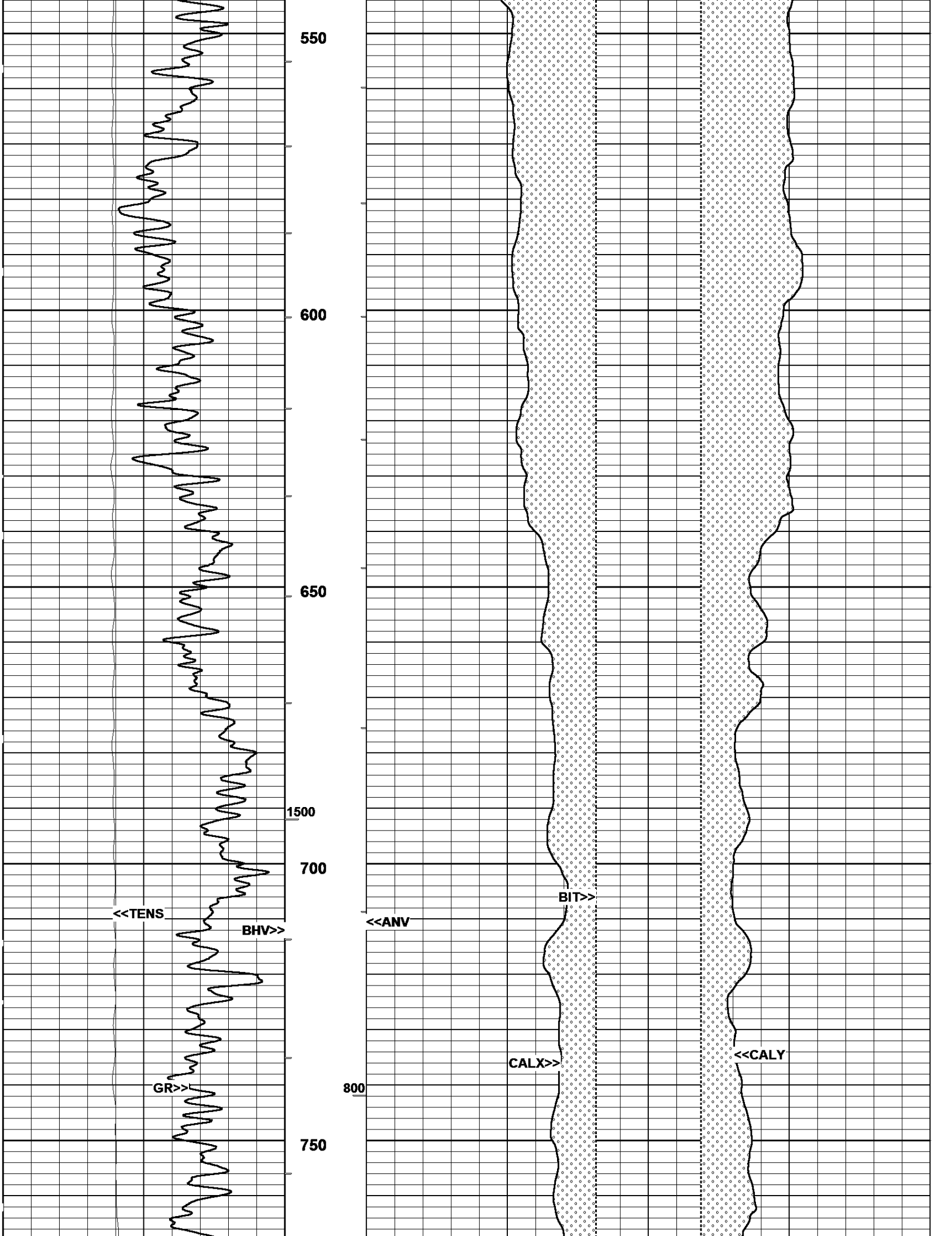
Dual Induction Tool
Dimensions
3.62" x 21'

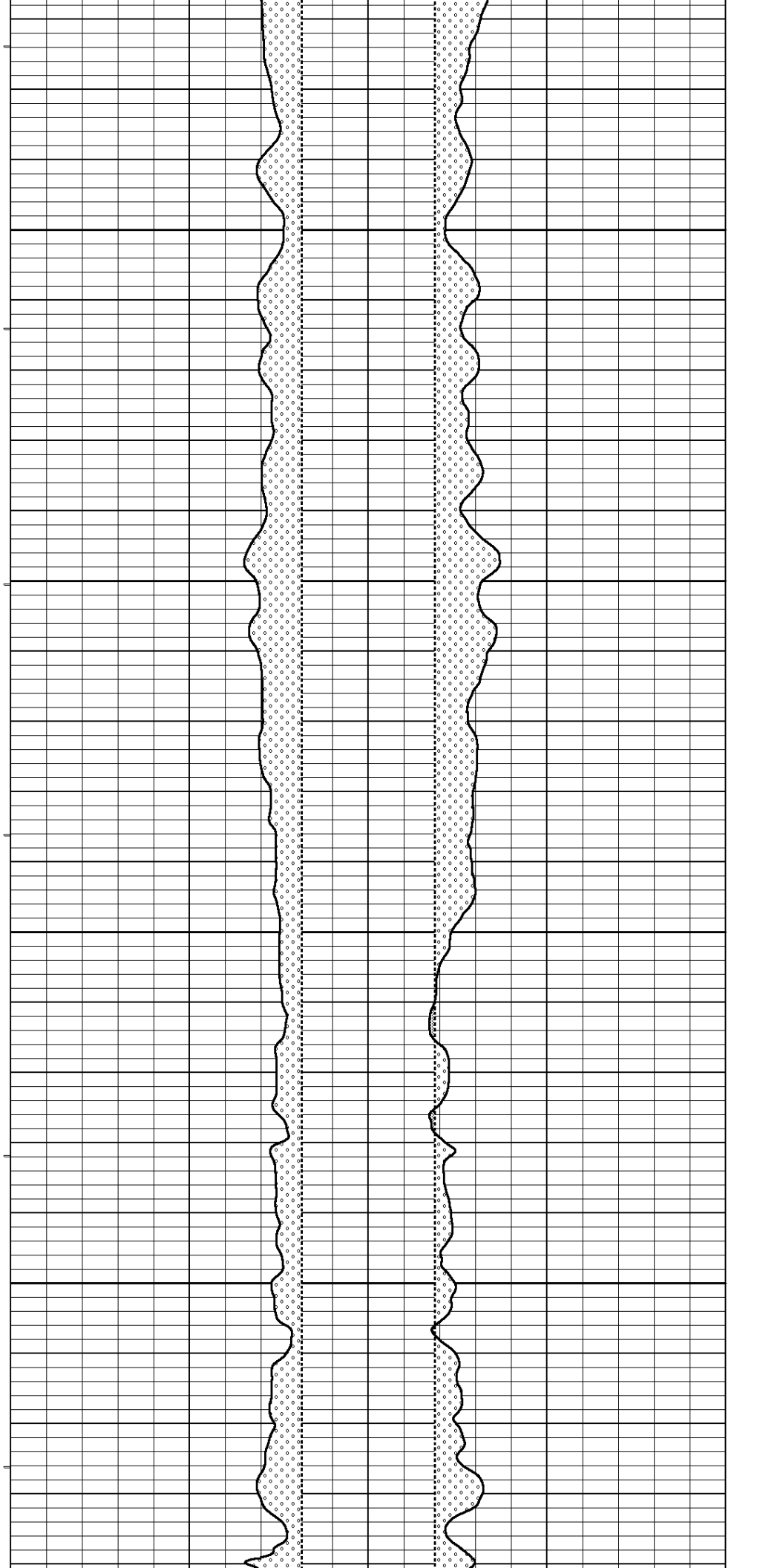
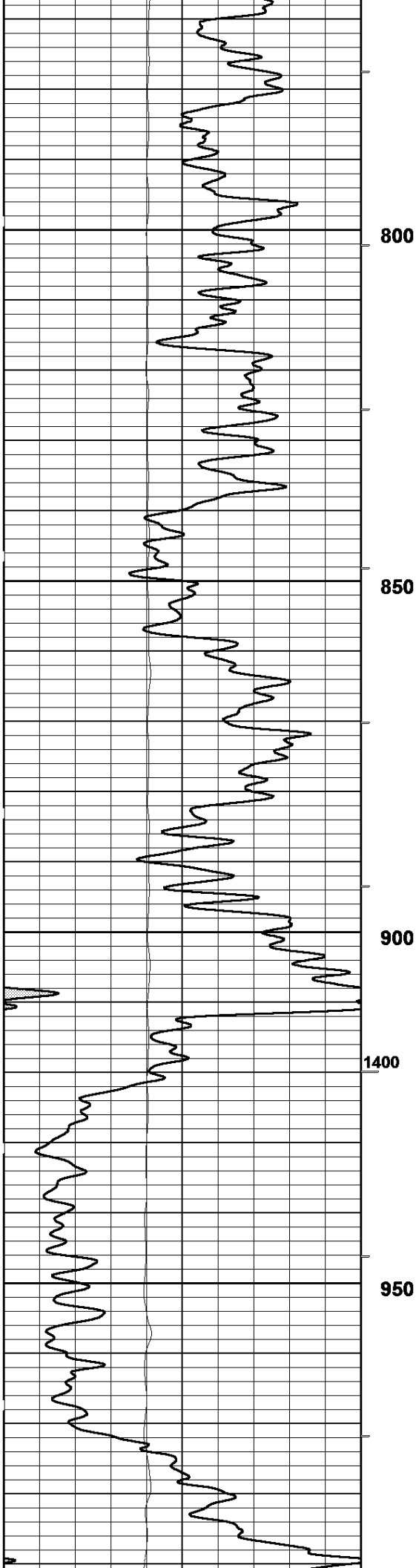
S.P. / CILD
Measure Point

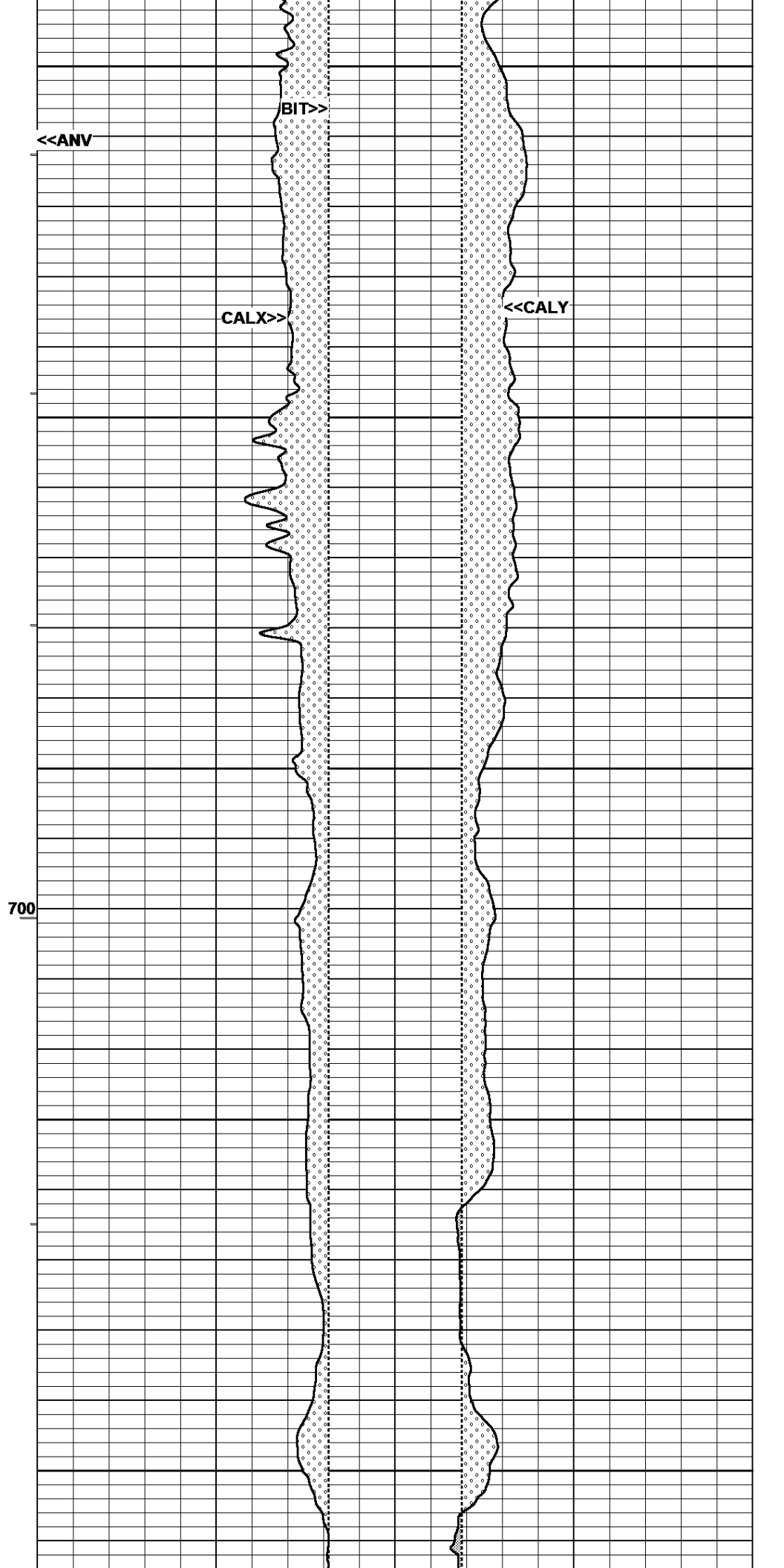
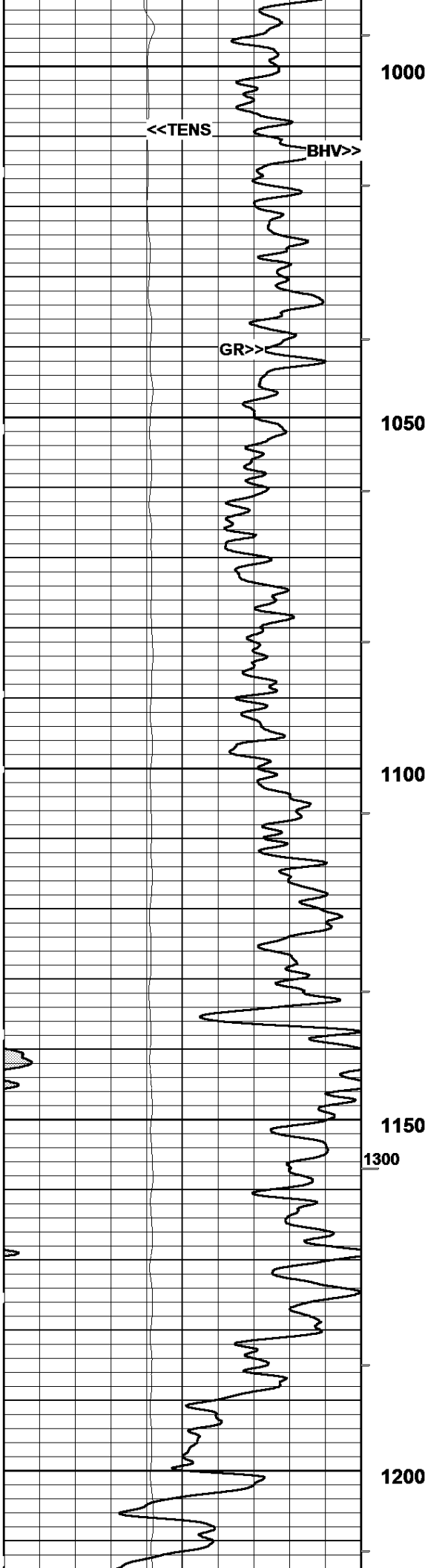
SP - 10.96' From ToolZero
ILD - 10.96' From ToolZero

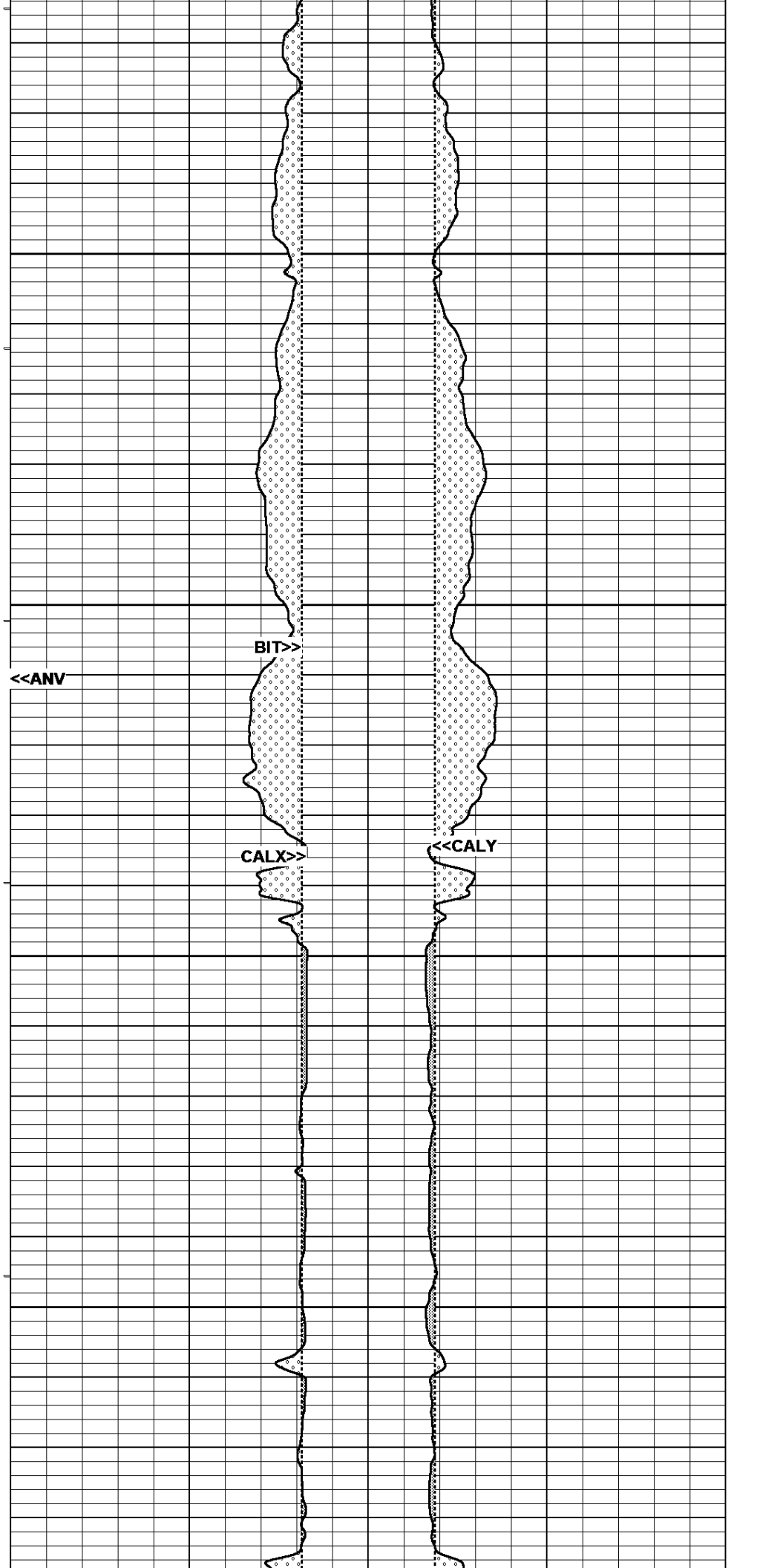
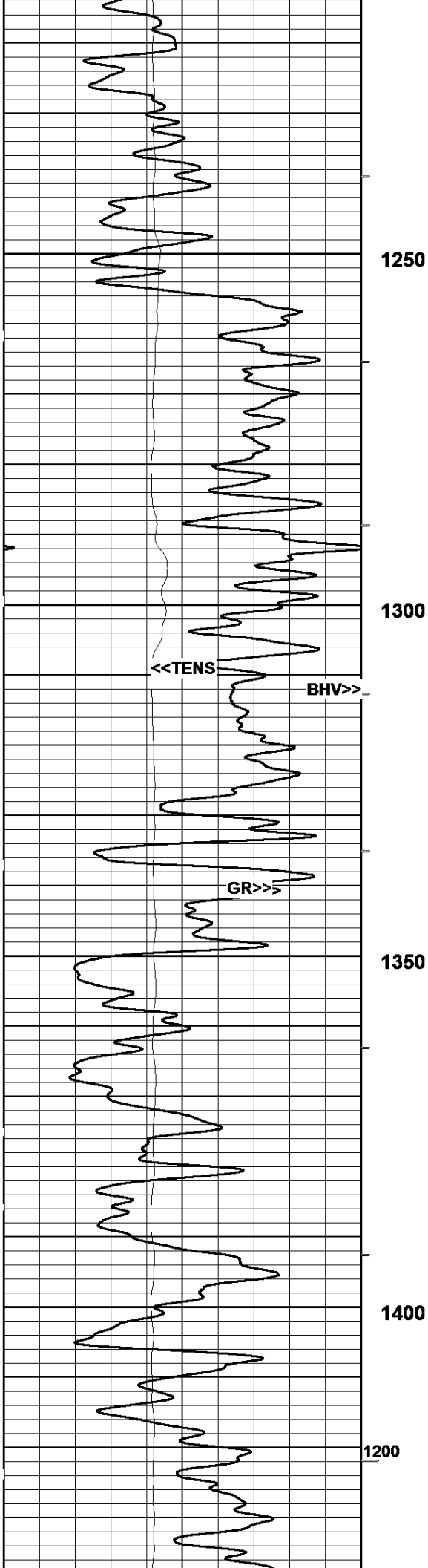


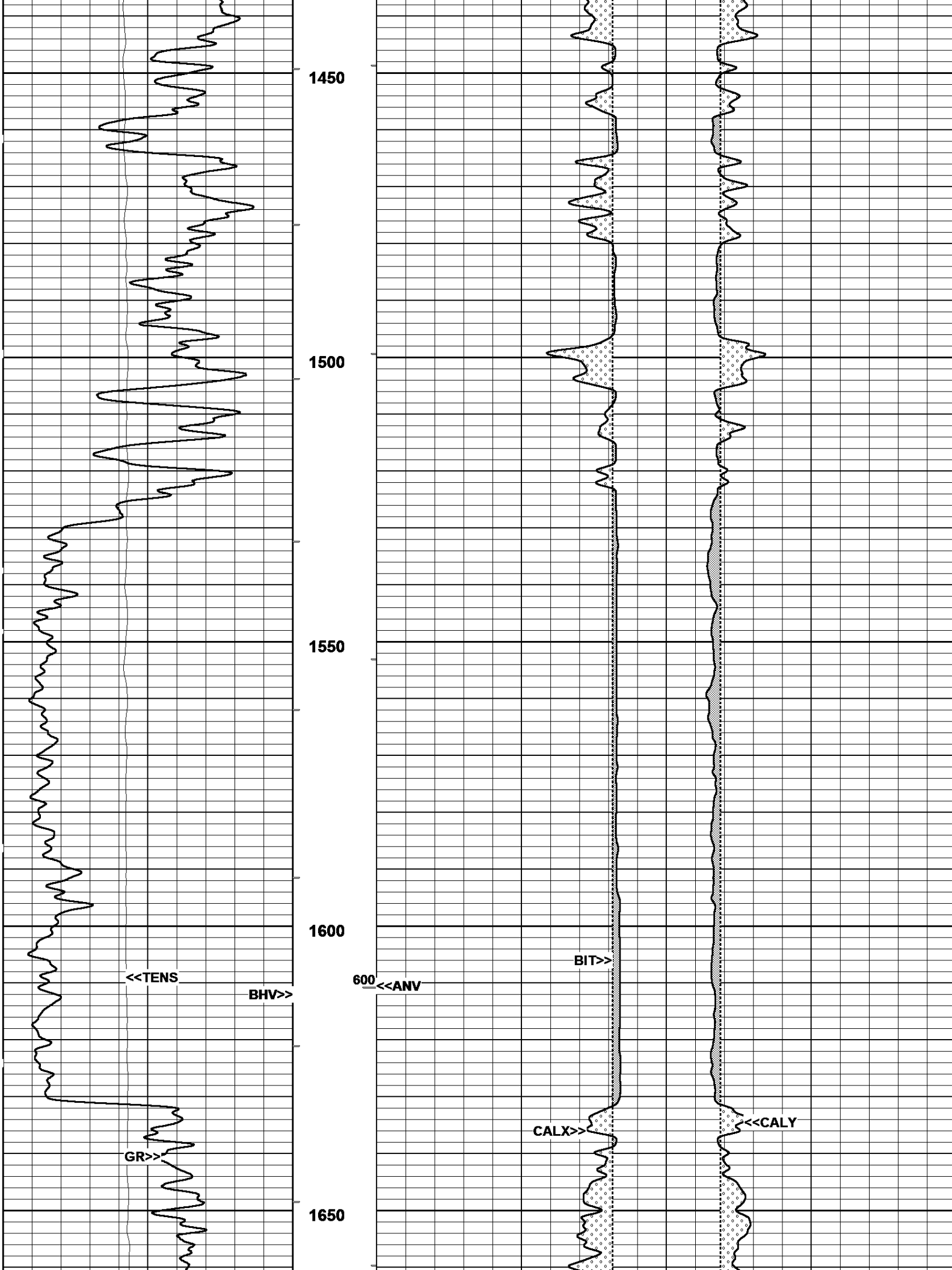


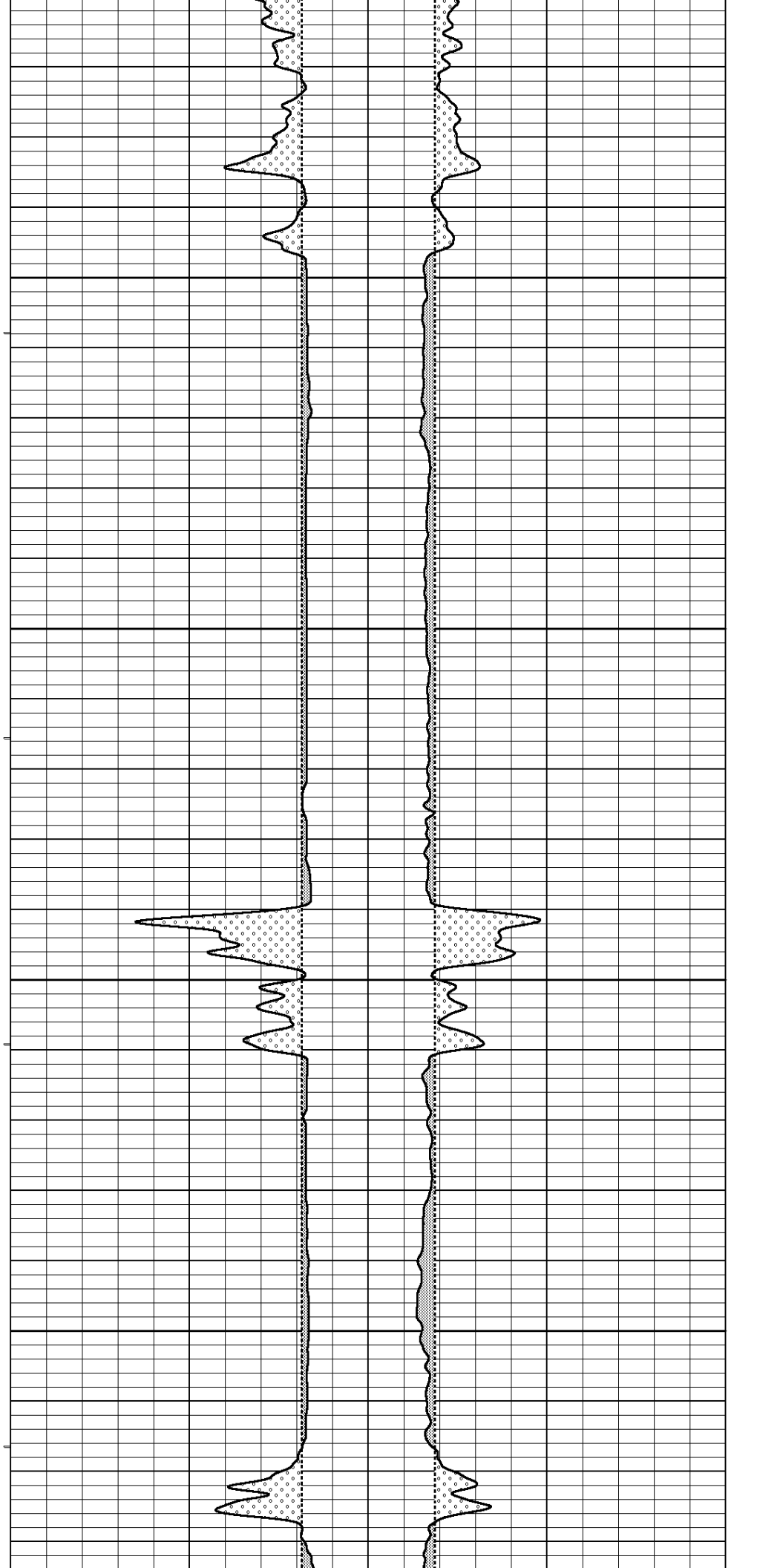
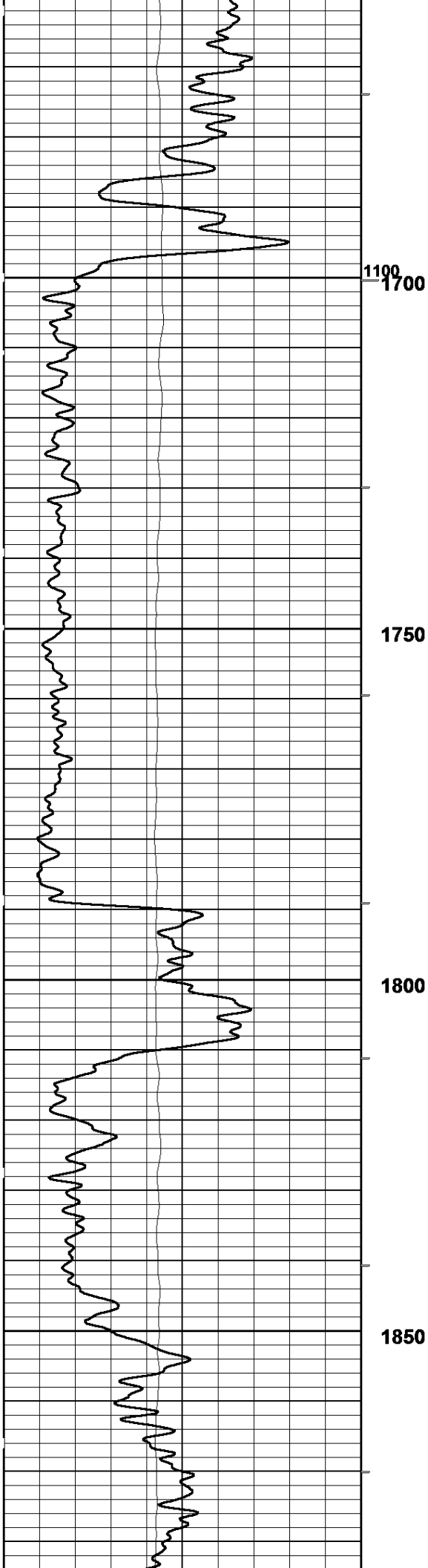


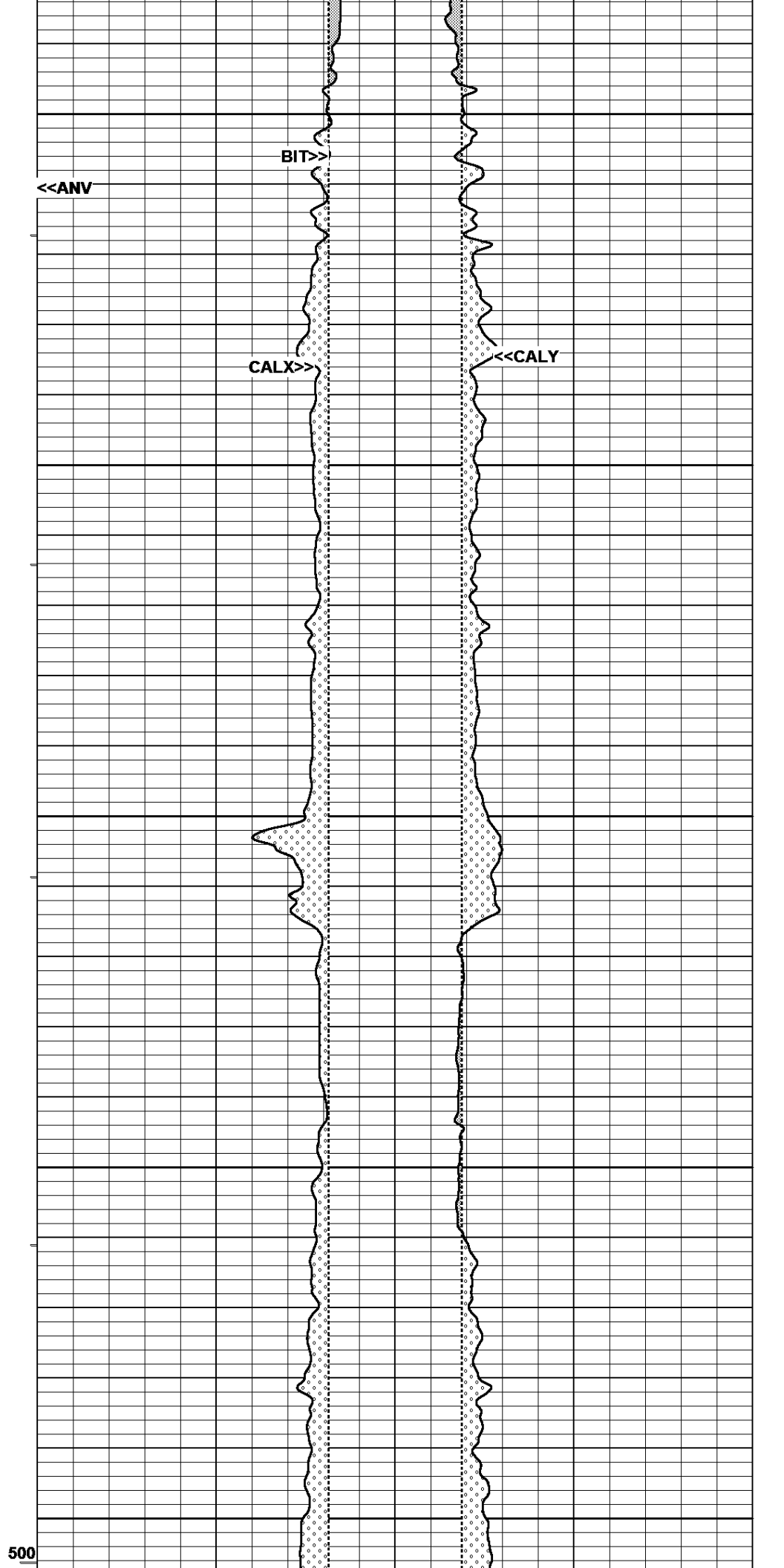
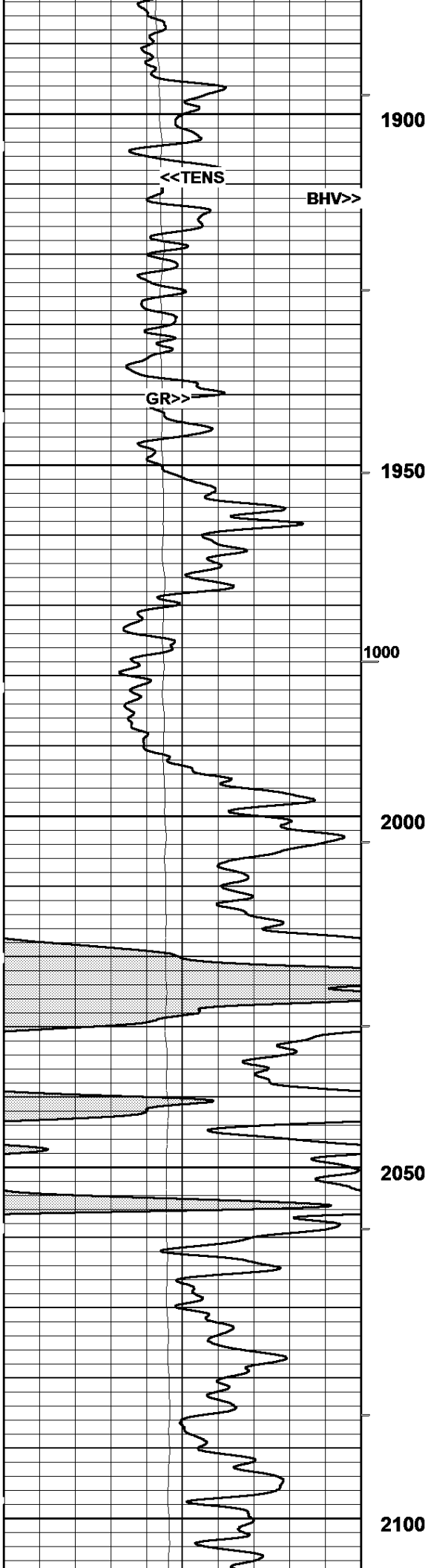


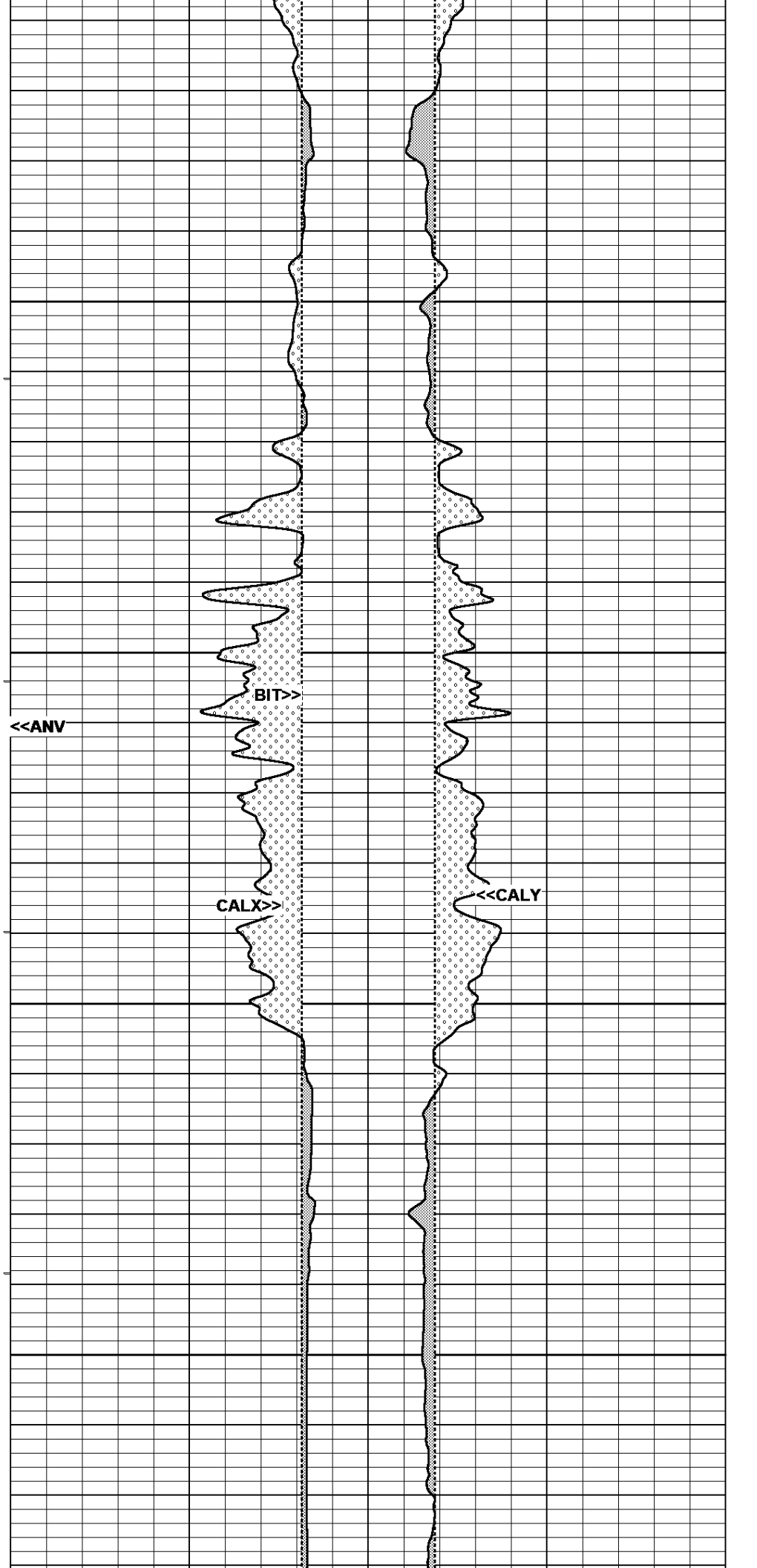
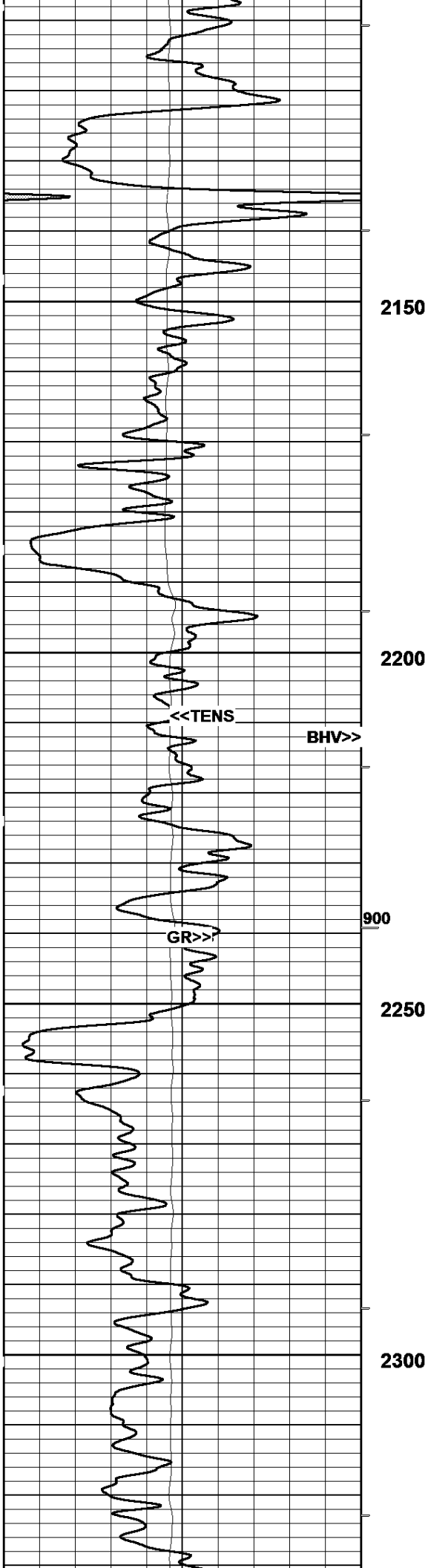


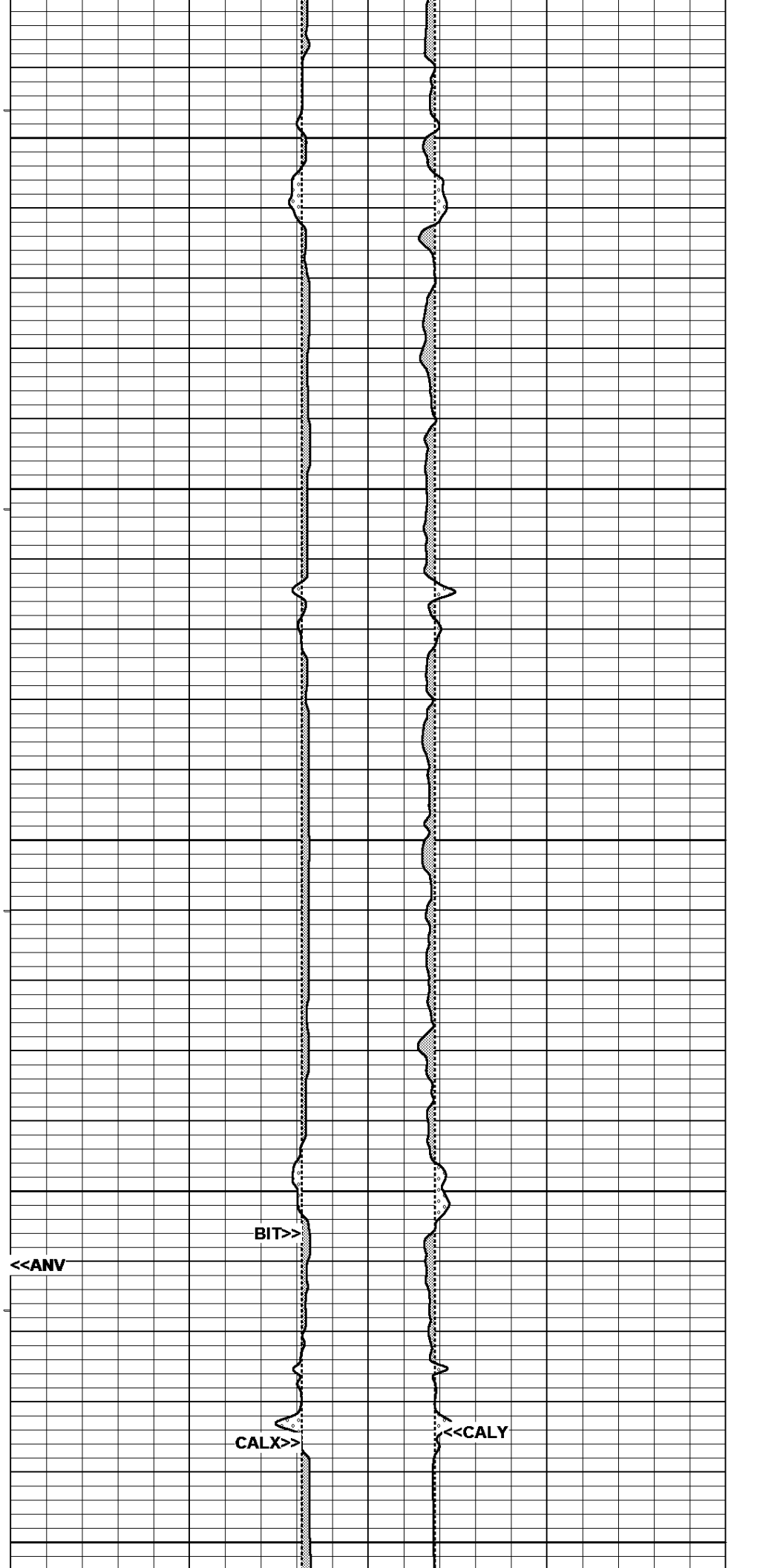
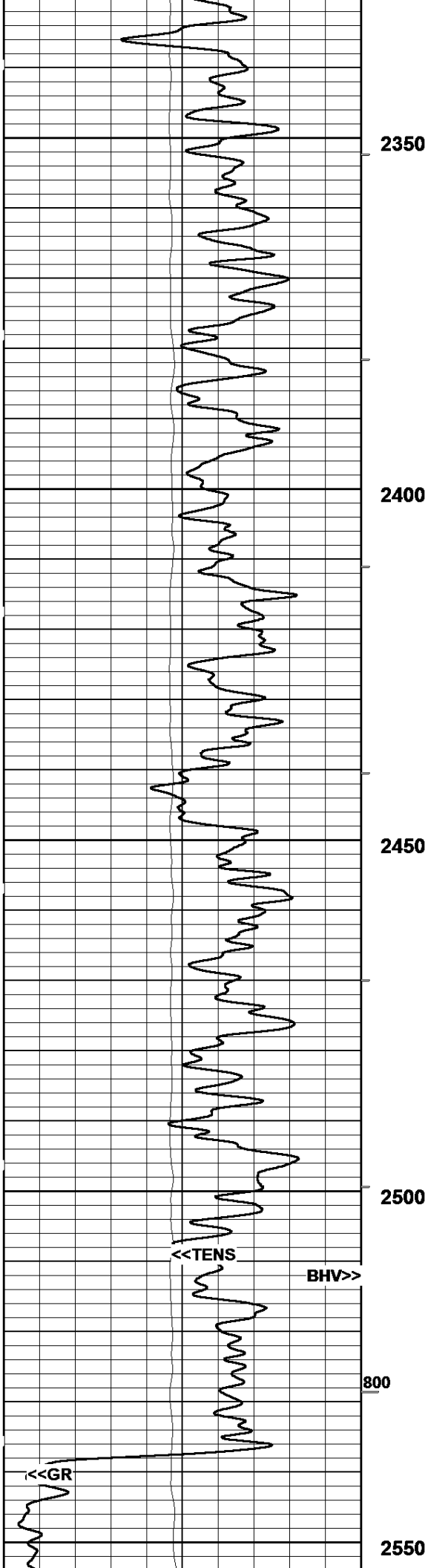


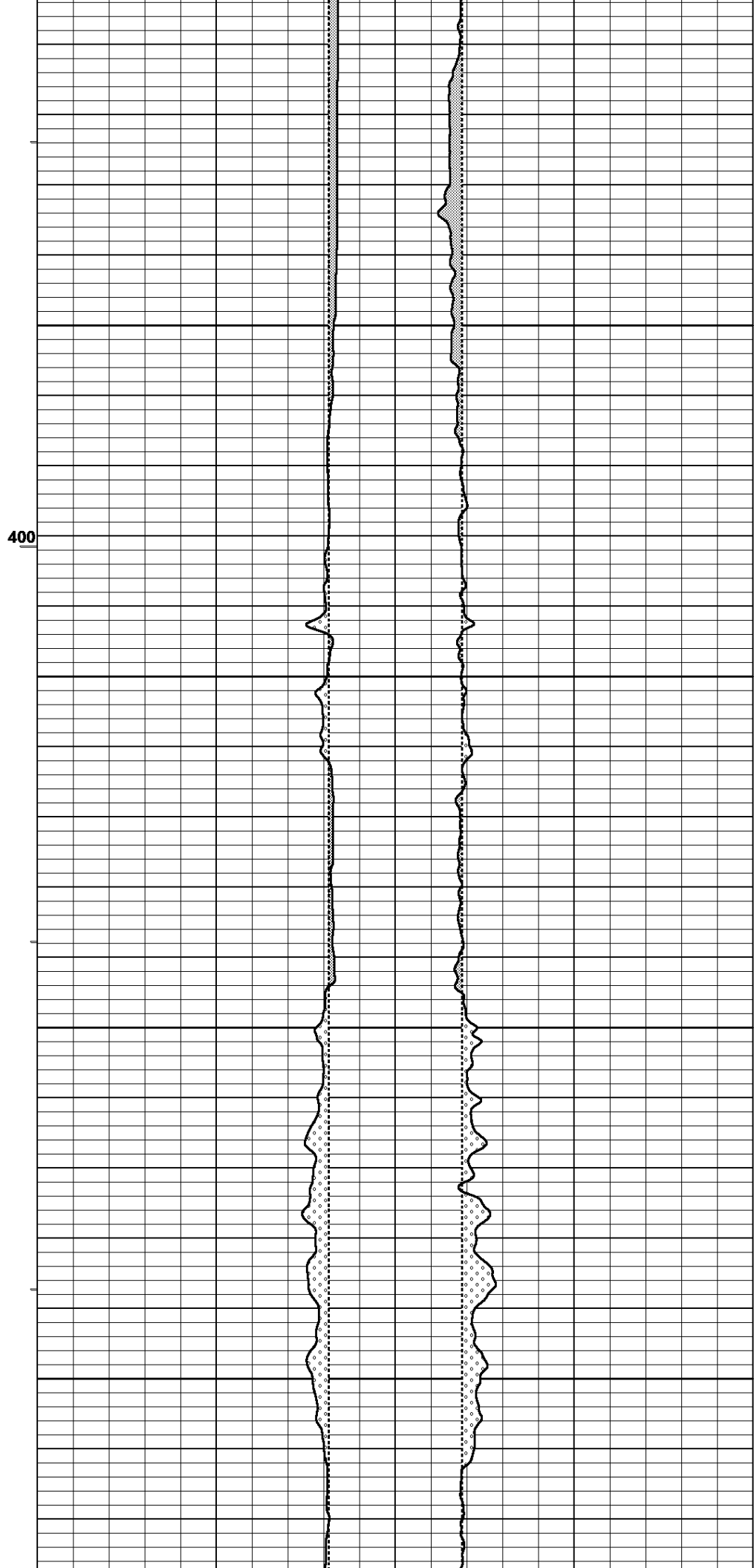
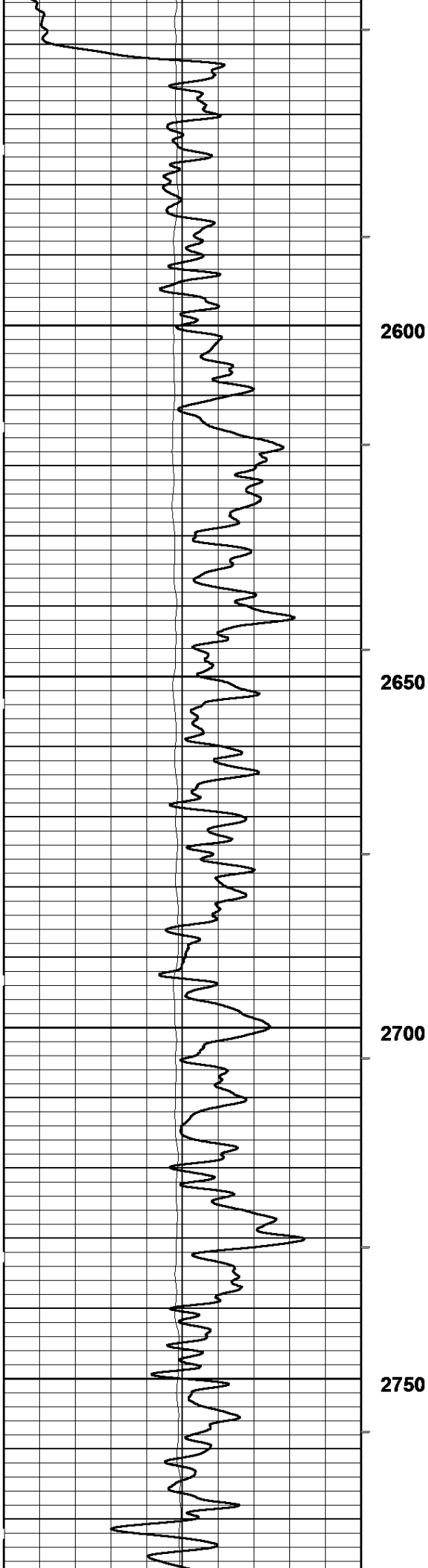


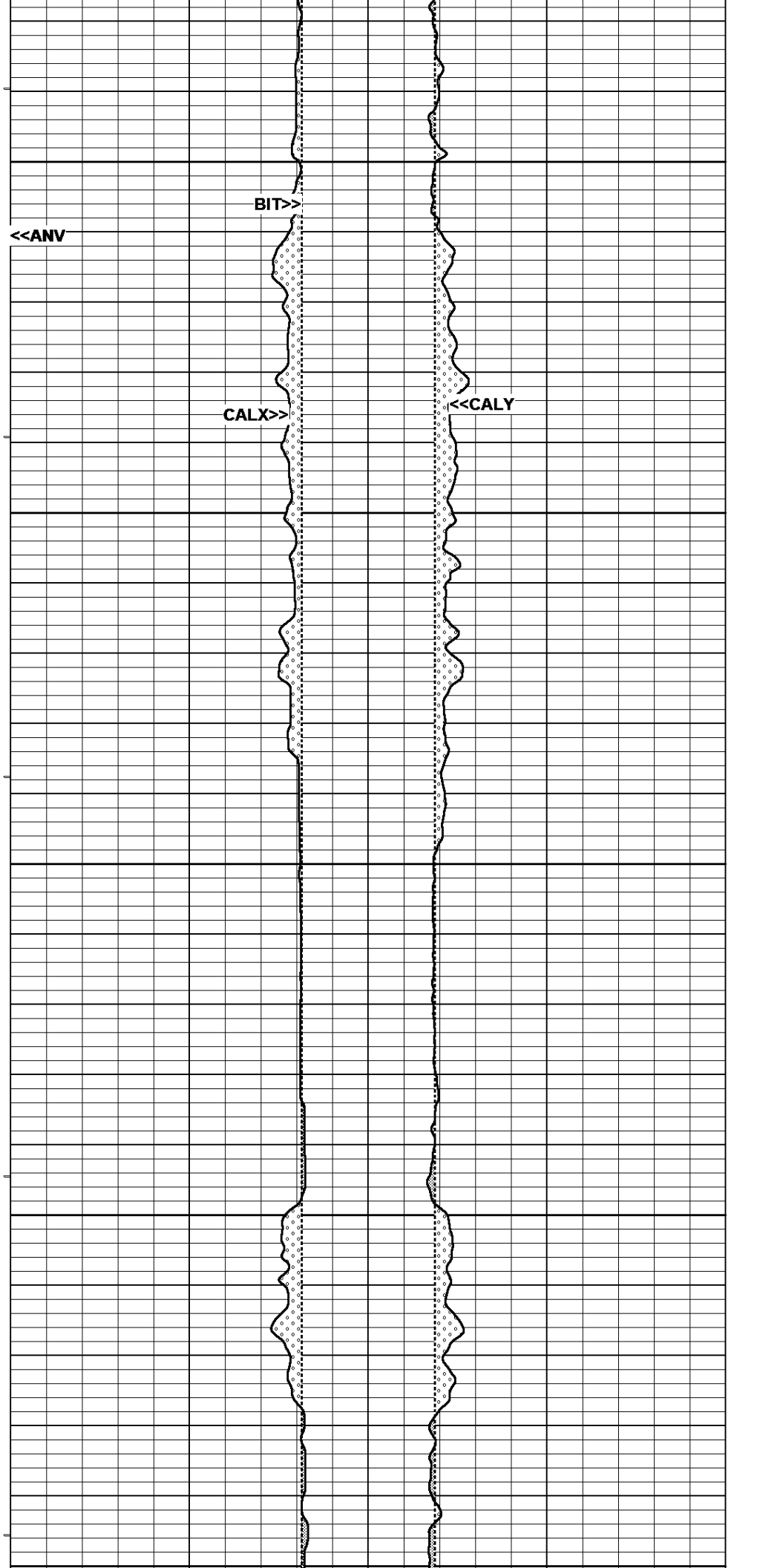
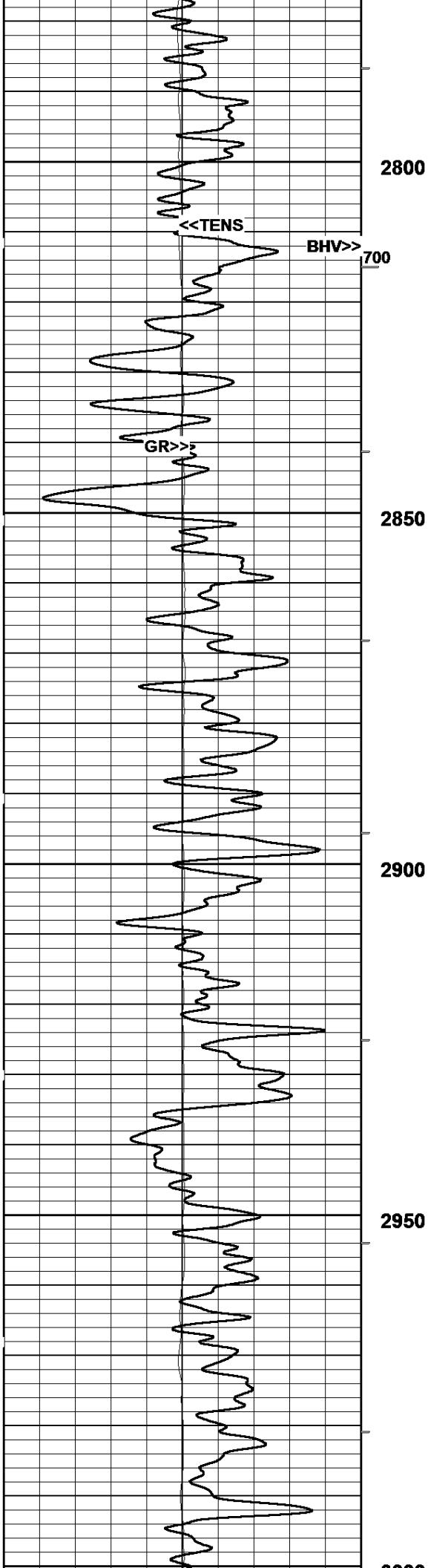


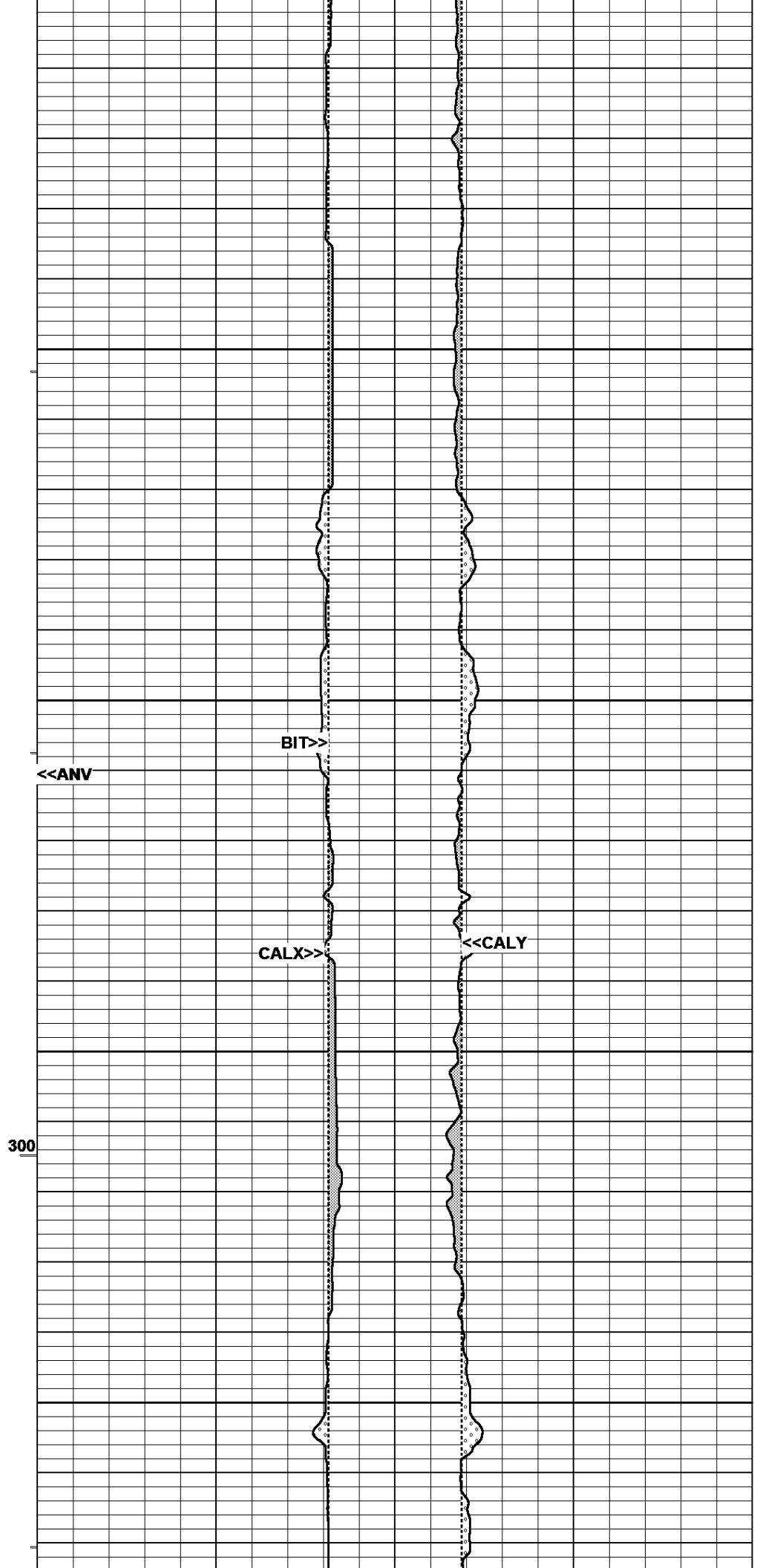
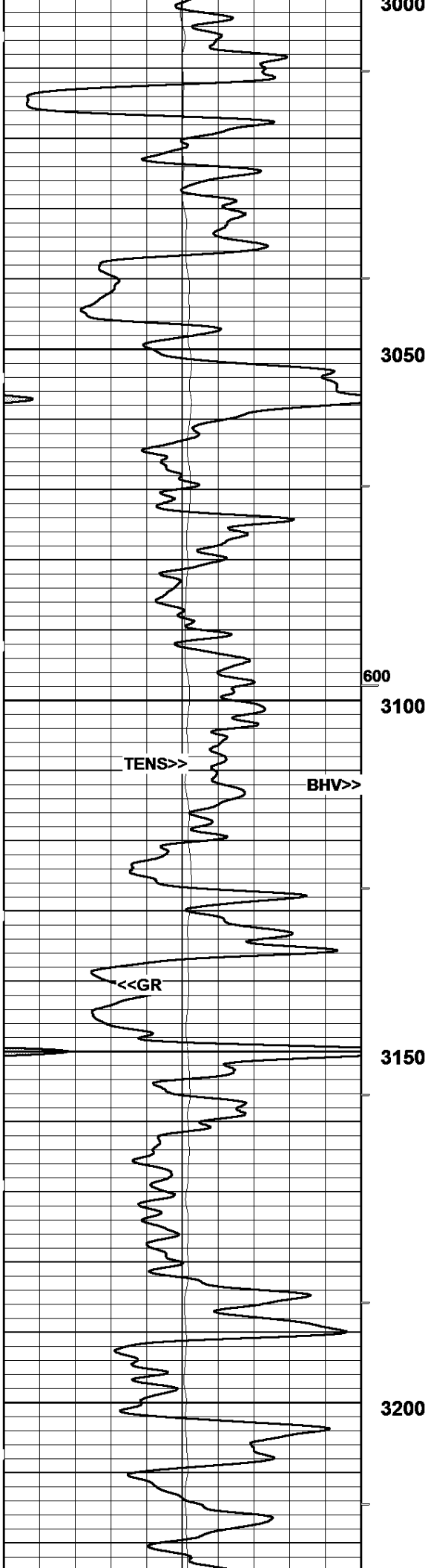


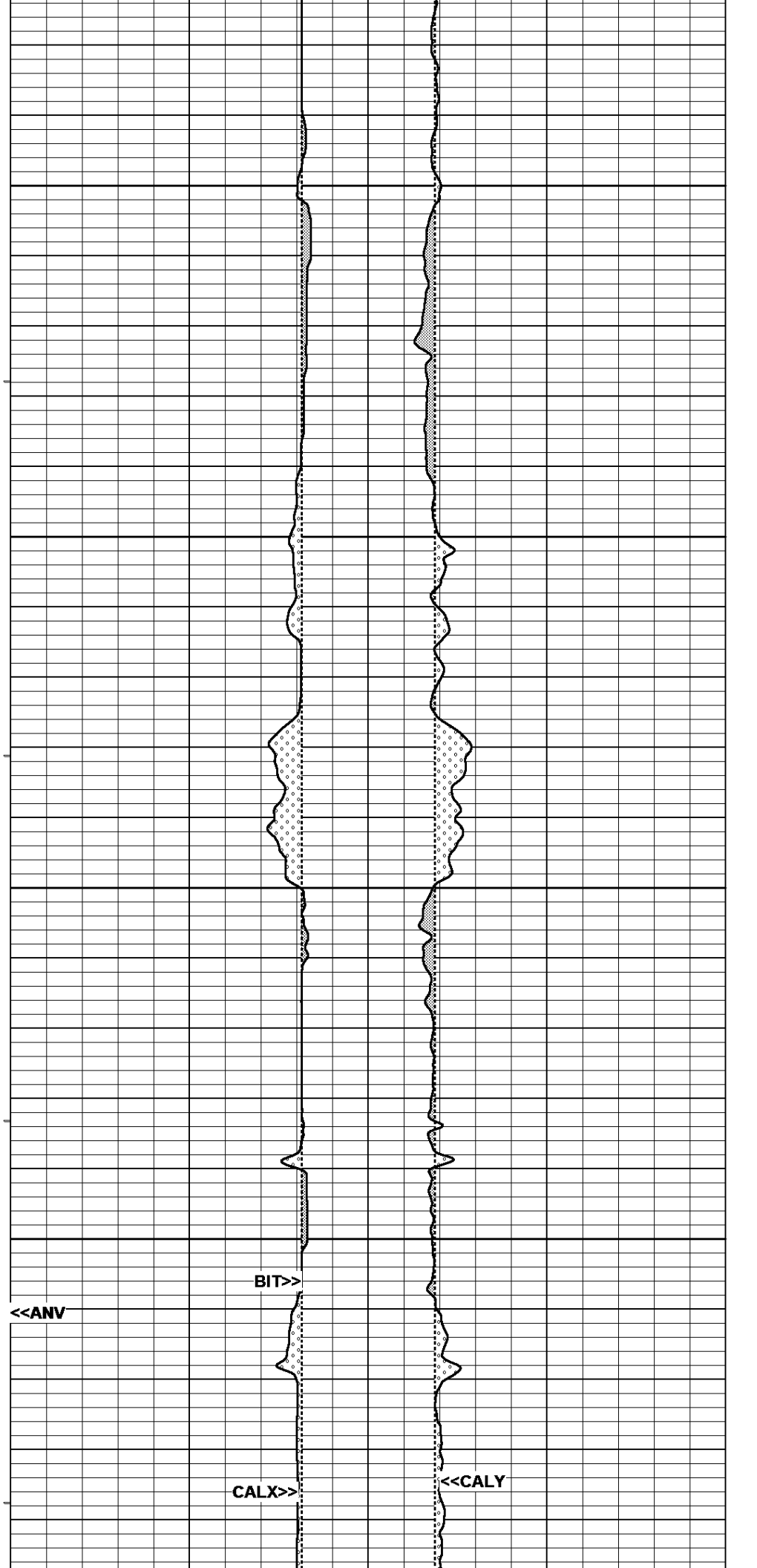
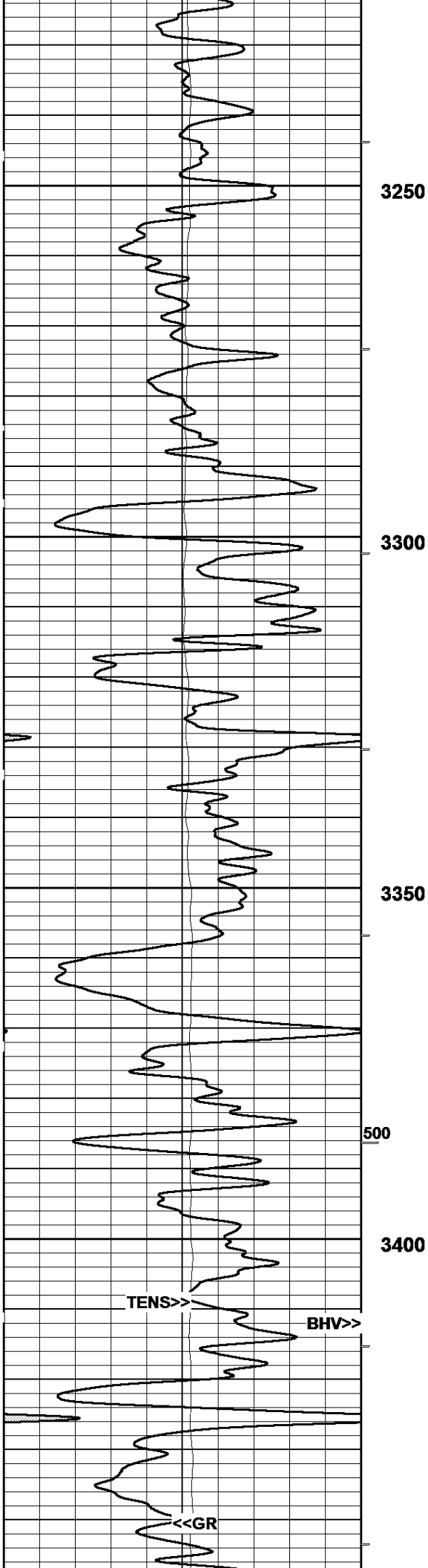


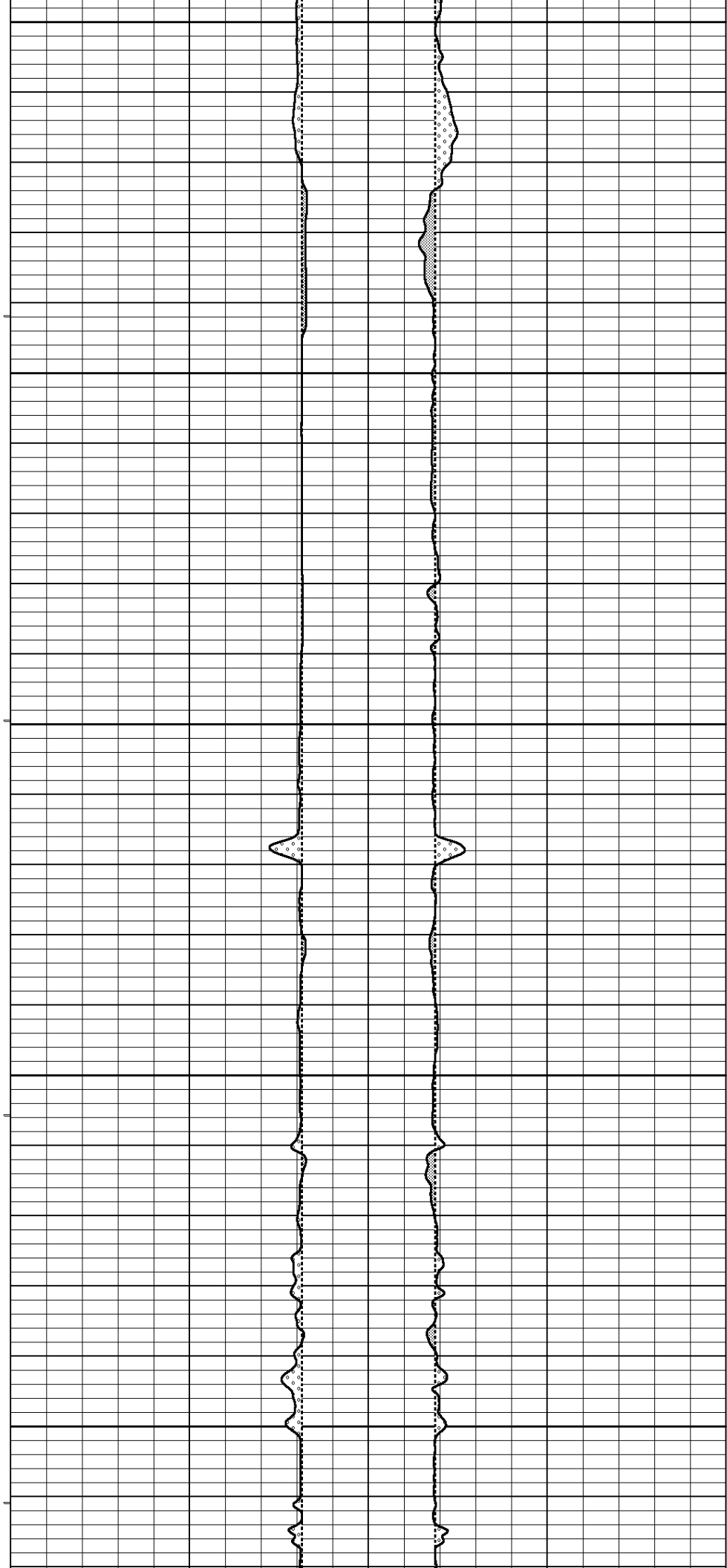
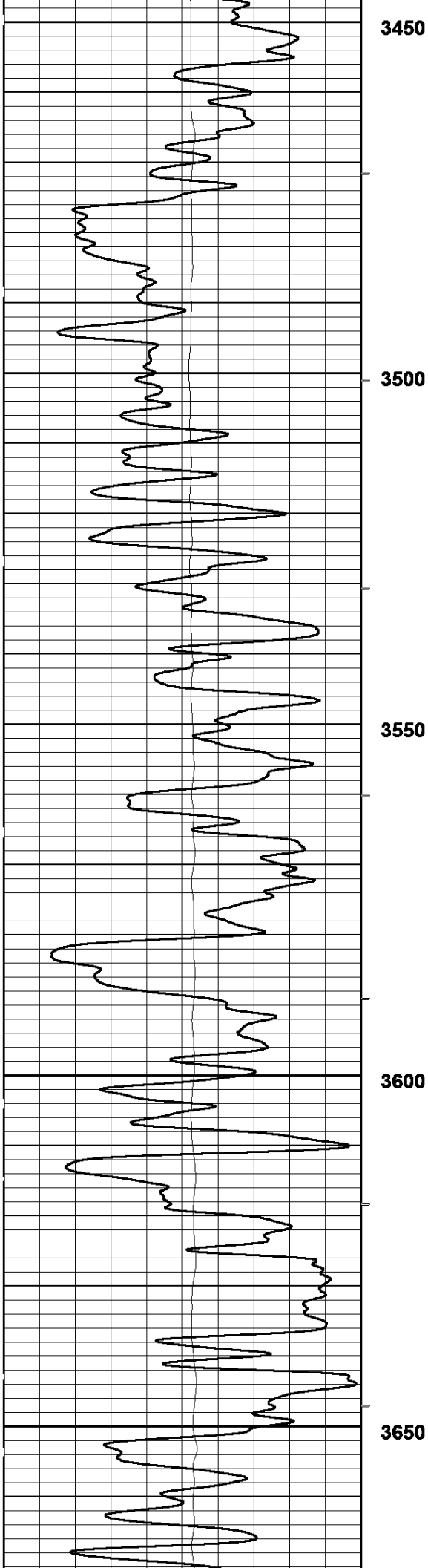


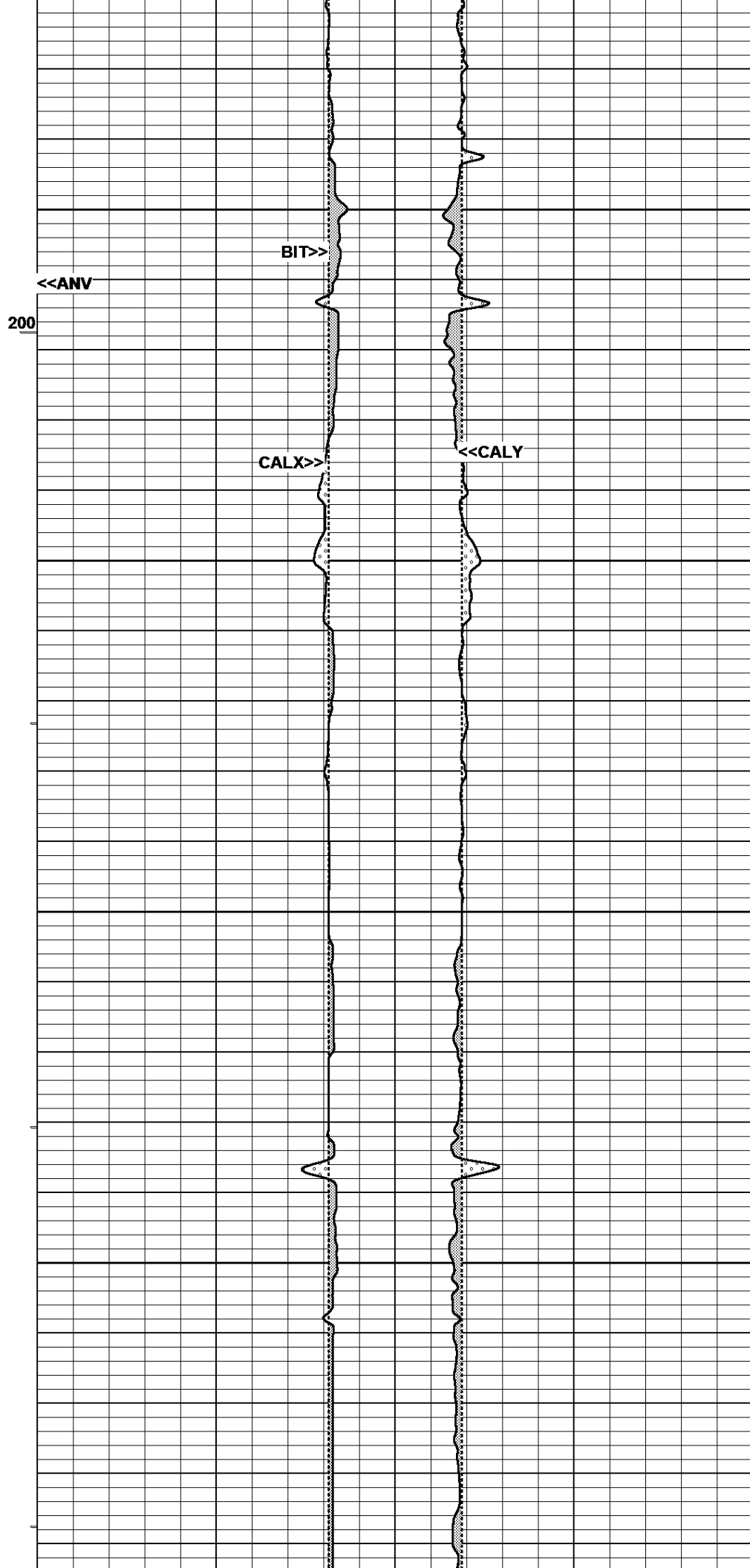
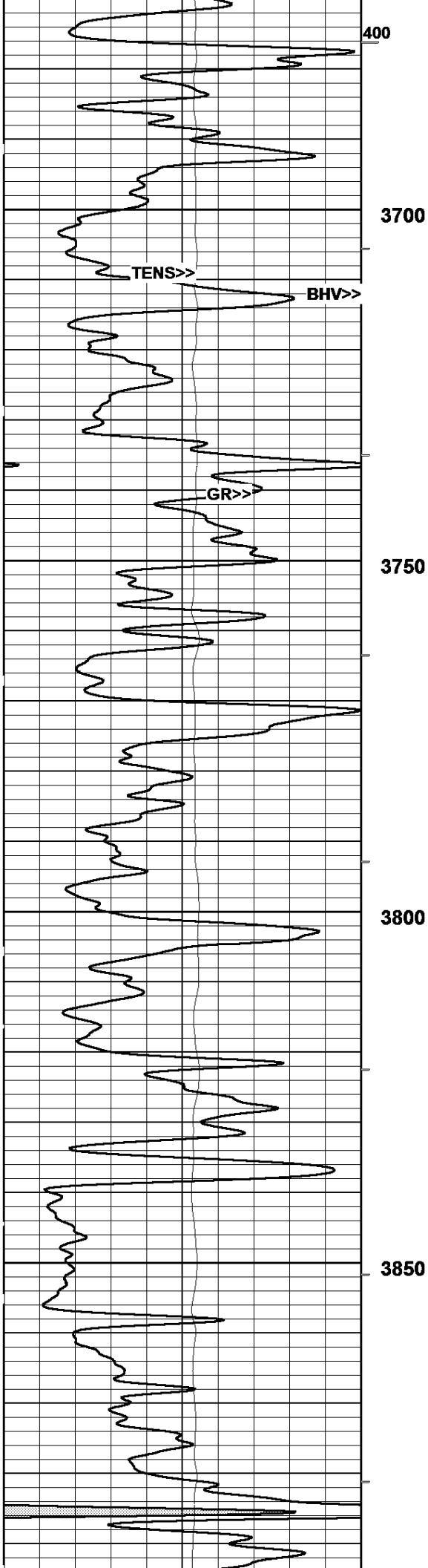


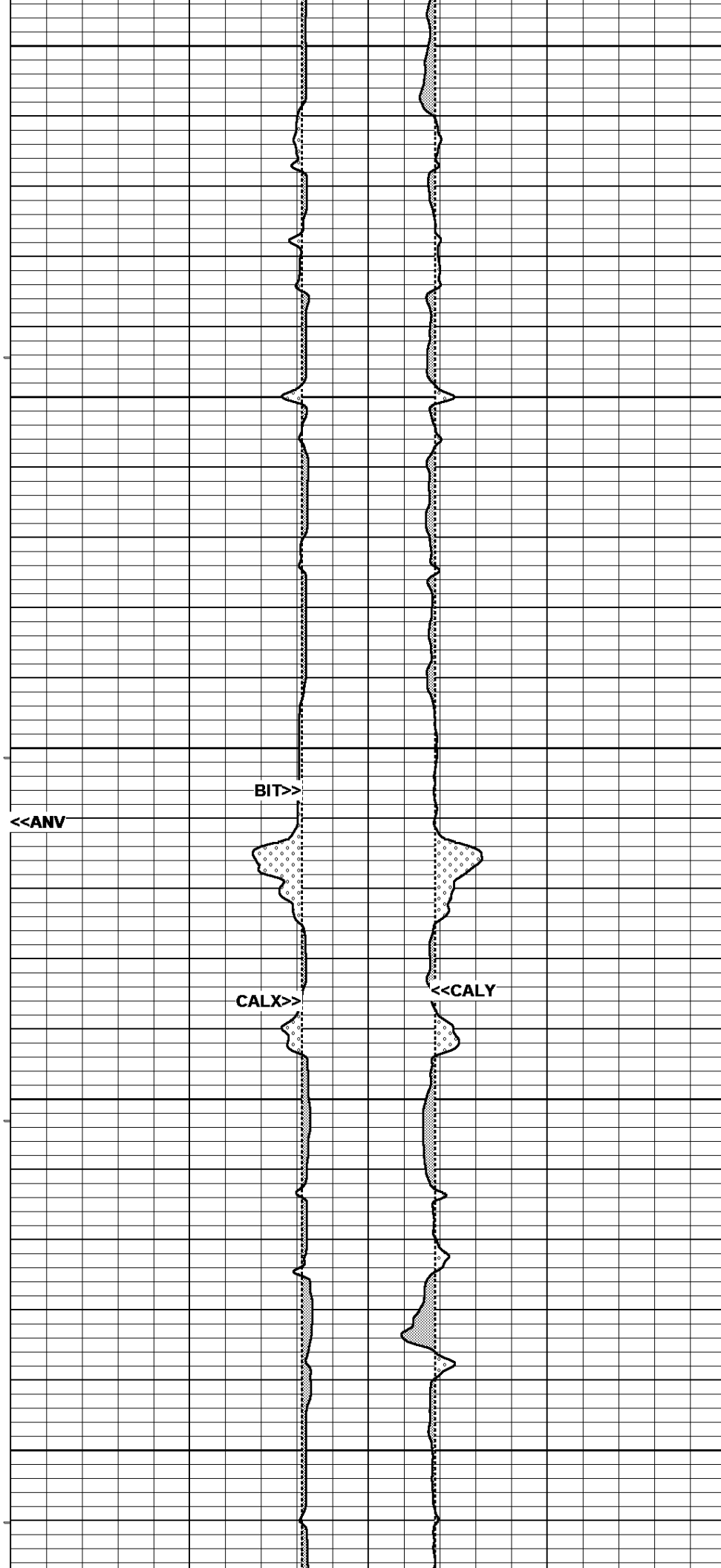
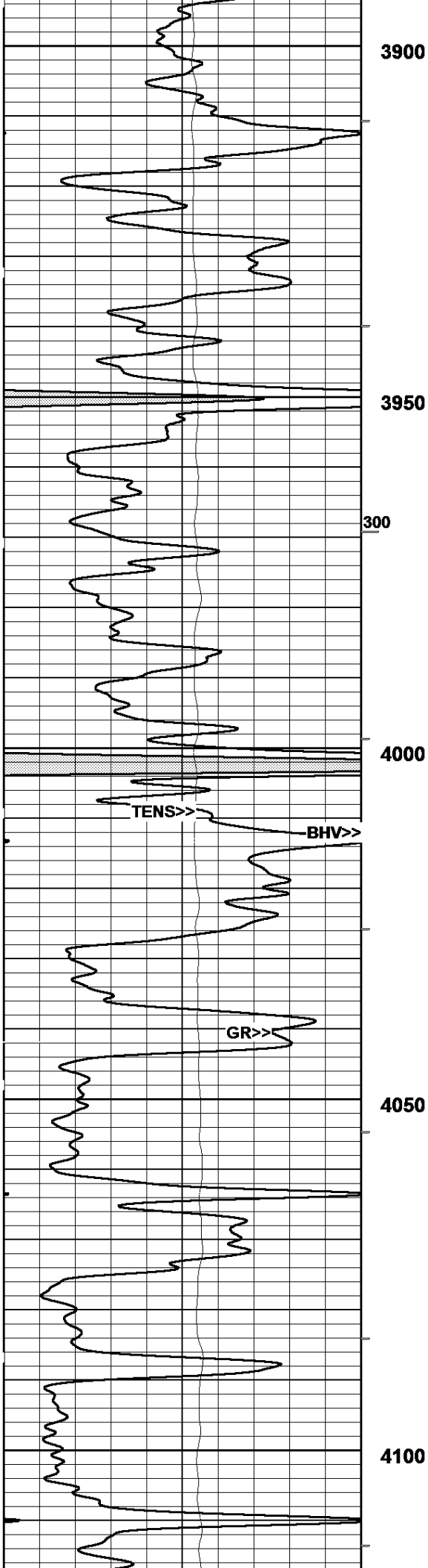


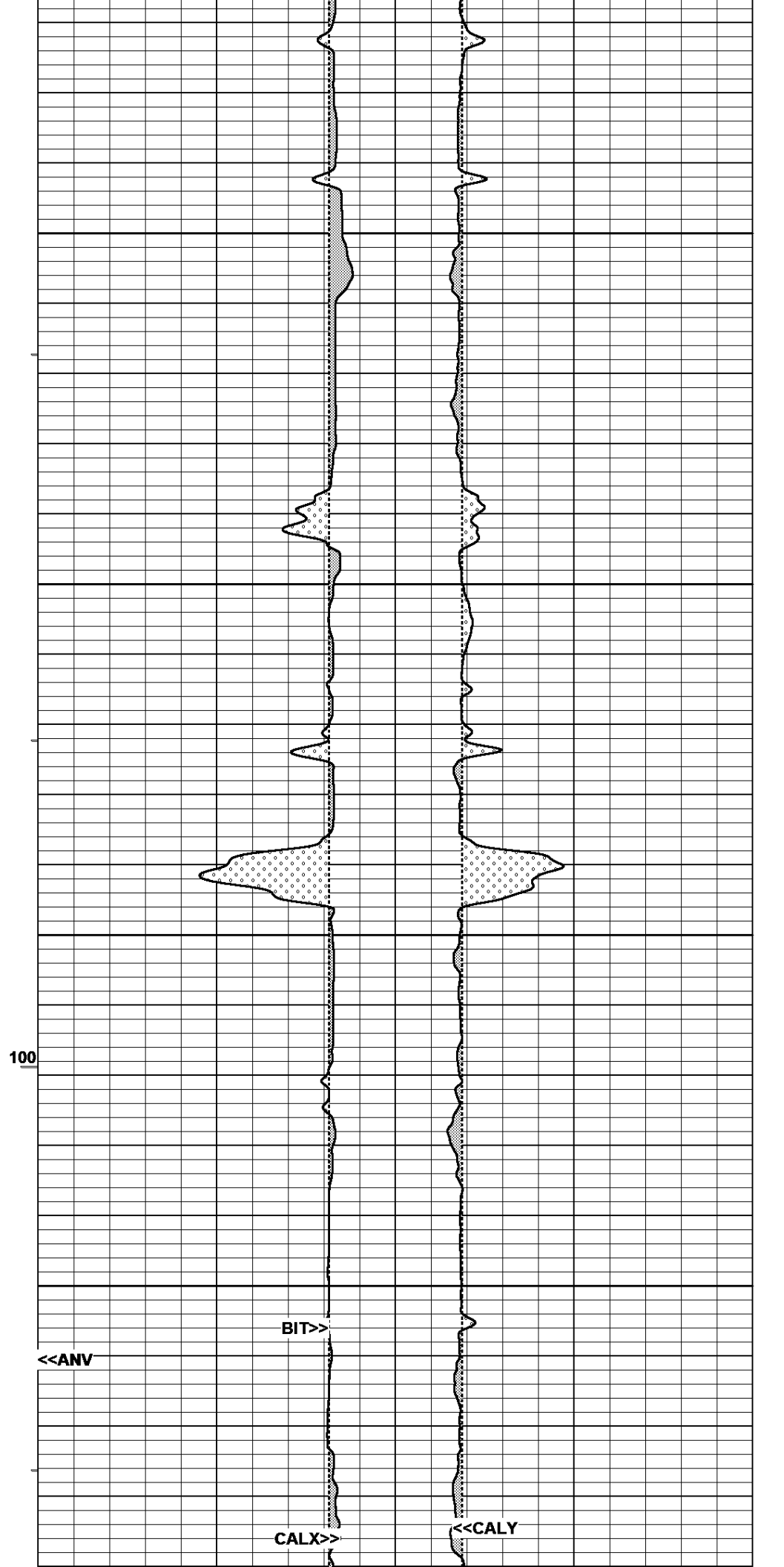
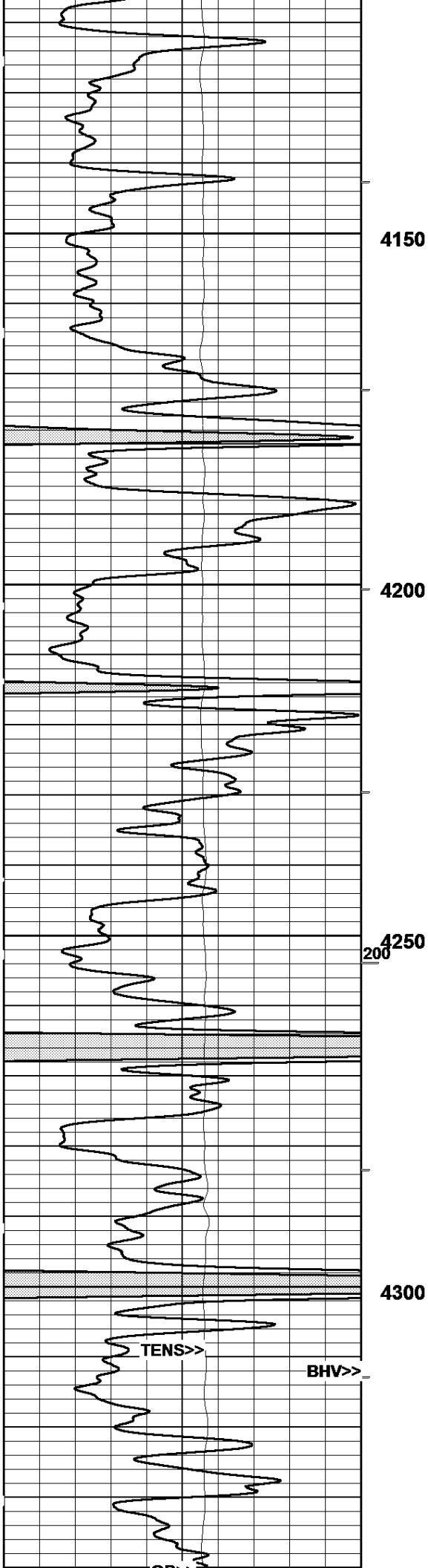


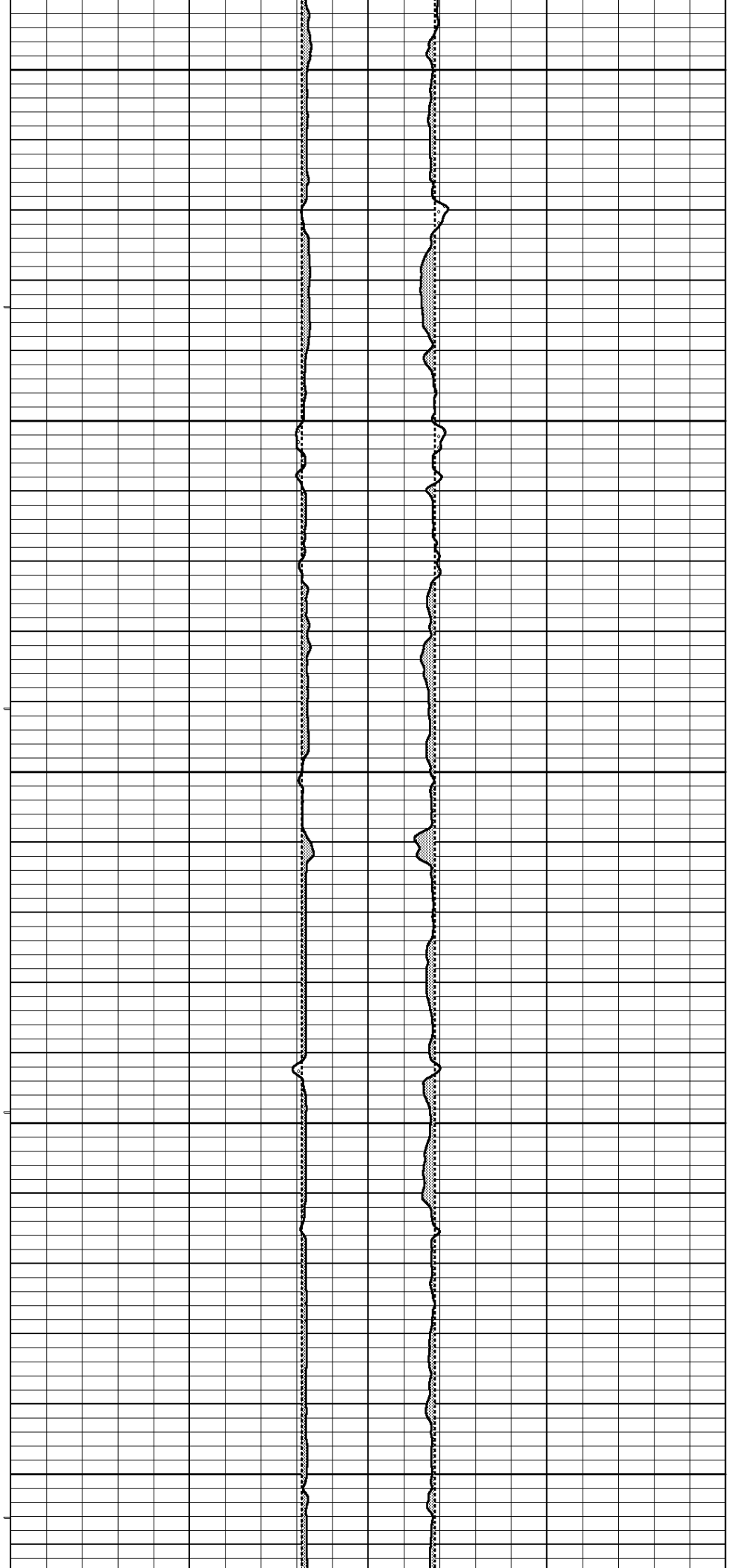
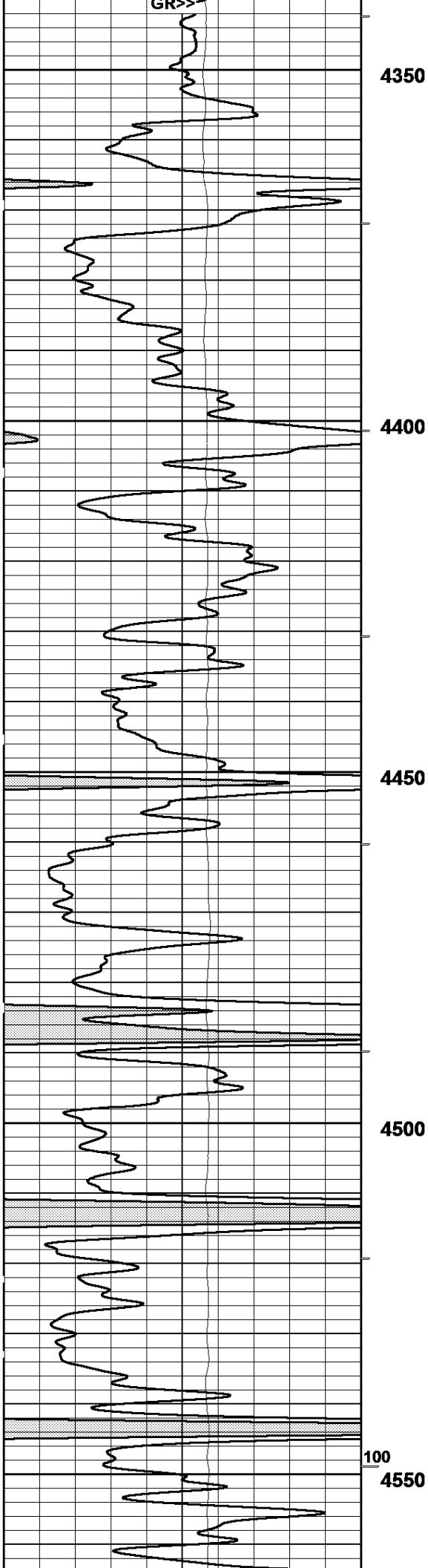


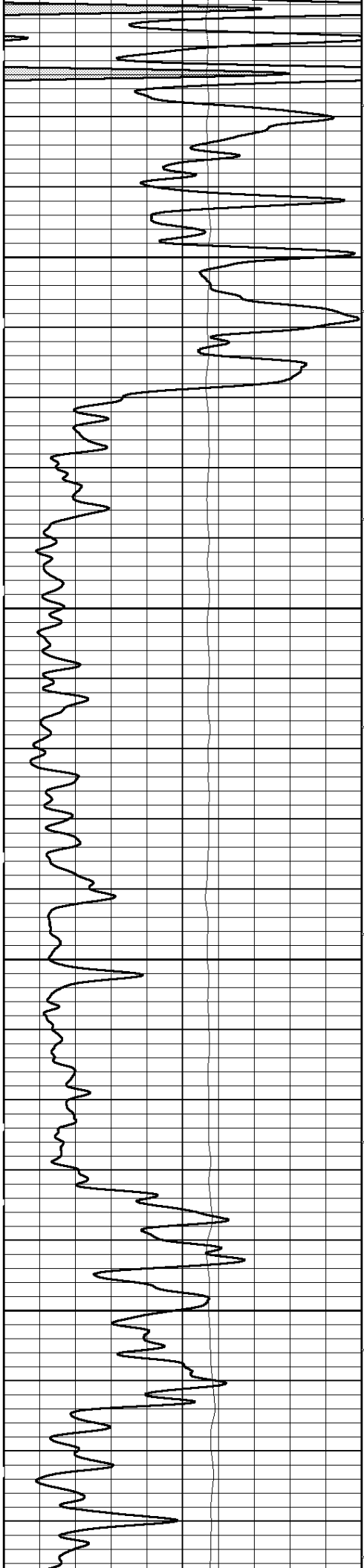










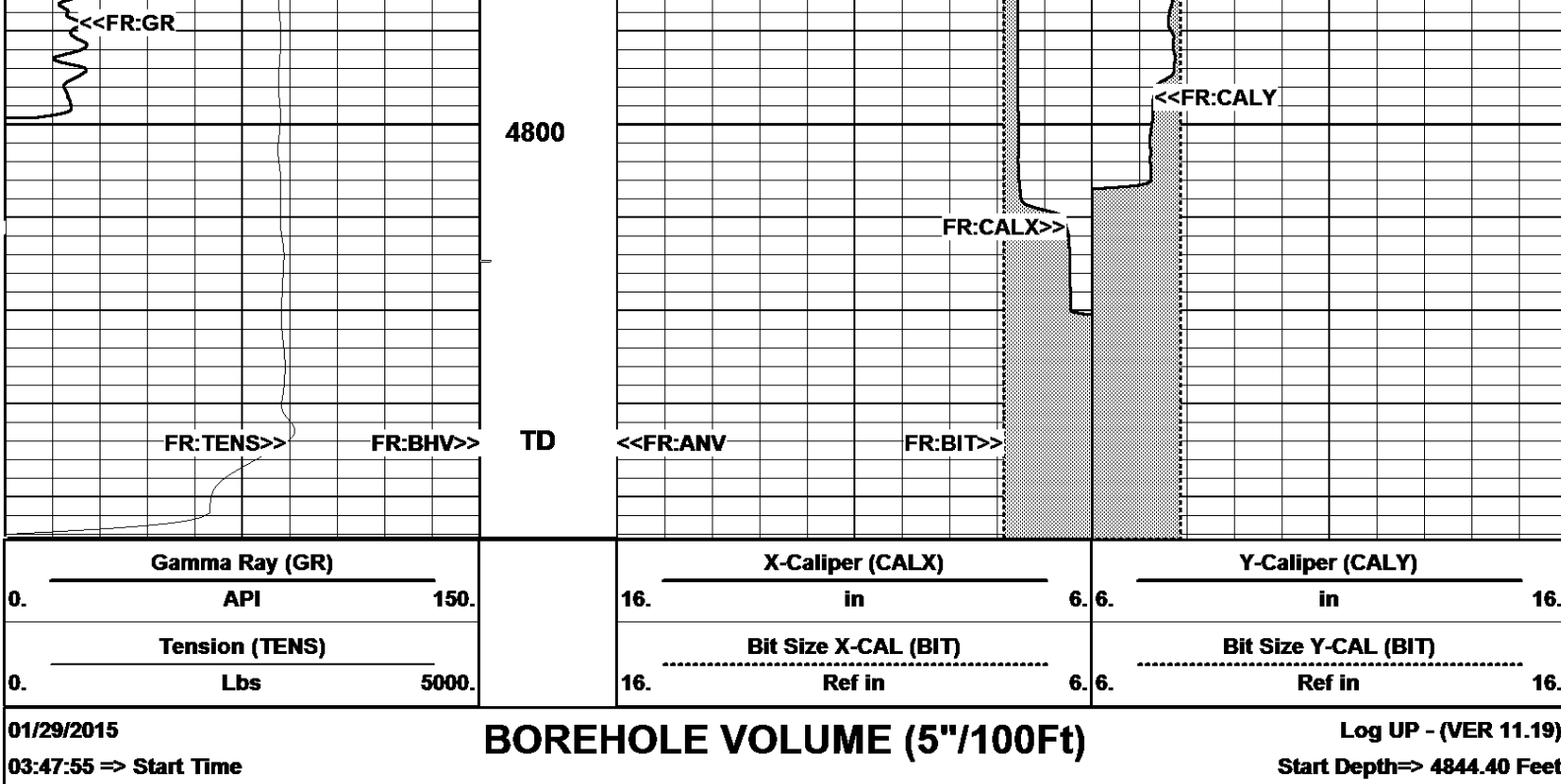


4600

4650

4700

4750



GAMMA RAY CALIBRATION

SERIAL NUM
BLANKET NUM

RG3015
1A

MASTER CALIBRATIONS

	BackGrnd	CalVal: 159.000 API	Gain/Offset	CALIBRATION DATE	CALIBRATION TIME
BASE CALS	78.600 - raw	486.593 - raw	0.390 - gain 0.000 - off	M/D/Y> 12/23/2014	H:M:S> 16:0:12

X-CALIPER CALIBRATION

SERIAL NUM

RL4112

MASTER CALIBRATIONS

	ZeroVal: 6.000 mm	CalVal: 10.000 mm	Gain/Offset	CALIBRATION DATE	CALIBRATION TIME
BASE CALS	3855.307 - raw	5902.570 - raw	0.002 - gain -1.533 - off	M/D/Y> 1/9/2015	H:M:S> 16:1:51

Y CALIPER CALIBRATIONS

SERIAL NUM

RN2016

MASTER CALIBRATIONS

	ZeroVal: 6.000 IN	CalVal: 10.000 IN	Gain/Offset	CALIBRATION DATE	CALIBRATION TIME
BASE CALS	605.241 - raw	1293.665 - raw	0.006 - gain 2.483 - off	M/D/Y> 12/23/2014	H:M:S> 15:46:1

Company	RED OAK ENERGY, INC.
Well	MATHERS #1-2
Field	WILDCAT
County	LOGAN
State	KANSAS



BOREHOLE
VOLUME
X-Y CALIPER