

Company				K3 OIL & GAS OPERATING COMPANY			
Well				EATON #3-18			
Field				WILDCAT			
County				LANE			
State				KANSAS			
BOREHOLE VOLUME X-Y CALIPER RECON							
SEC		TWP		RGE		OTHER SERVICES:	
18		16S		28W		DIL CNL LDT MEL	
Location, 879' FNL & 1966' FWL				NE/SW/NE/NW			
SURE. SAME		AP#.		015-101-22560-00-00			
Permanent Datum				Ground Level		Elev	
Log Measured From				Kelly Bushing		2649	
Drilling Measured From				Kelly Bushing		ELEVATIONS K.B. 2657 G.L. 2649 D.F. N/A	
Date		07-AUG-2015					
Run No.		ONE					
TD Driller		4540		ft		ft	
TD RECON		4540		ft		ft	
Bot Logged Interval		4539		ft		2100 ft	
Top Logged Interval		3500		ft		2000 ft	
Casing Depth Driller		8 5/8		in.		@ 305 in.	
Casing Depth RECON		8 5/8		in.		@ 304 in.	
Bit Size		7 7/8		in.		in.	
Drilling Fluid Type		WBM					
Density		9.3		Viscosity		49	
Fluid Loss		9.6		PH		8.0	
Source Of Sample		Flowline					
RM @ Measured Temp		3.37		Ohmm		@ 75 Ohmm @	
RMF @ Measured Temp		2.53		Ohmm		@ 75 Ohmm @	
RMC @ Measured Temp		3.01		Ohmm		@ 75 Ohmm @	
RM @ MRT		1.91		Ohmm		@ 131 Ohmm @	
Max Recorded Temp		131		DegF		DegF	
Time Drilling Stopped		07-AUG-2015		02:00			
Time Circulation Stopped		07-AUG-2015		04:45			
Time Logger On Bottom		07-AUG-2015		17:17			
Unit Num		S406		Location		OKLAHOMA CITY, OK	
Recorded By		K.HELDERMON					
Witnessed By		T.WILLIAMS					

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	interpretations made by any of our officers, agents or employees, except in the case of provable Gross Negligence or willfull damage. Interpretations are also subject to the terms and conditions of our Price Schedule and General Service Agreement.
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RIG INFORMATION	
Drill Contr/Rig#	DUKE DRILLING #4

GENERAL REMARKS SECTION	
FIRST RUN IN THE HOLE CNL AND LDT LOGGED IN A LIMESTONE MATRIX TOP MARK - 283, BOTTOM MARK - 4387.5 CNL/LDT LOGGED MATRIX: 2.71 g/cc. CHLORIDES: 3800 LCM: TRACE THANK YOU FOR USING RECON PETROTECHNOLOGIES LTD.	AHV CALCULATED ON 5.5" PROD. CASING MICROLOG PAD APPEARS TO HAVE RIPPED AT ABOUT 4225' ON HDD REPEAT (FIRST PASS). CREW: M.CALLENINE

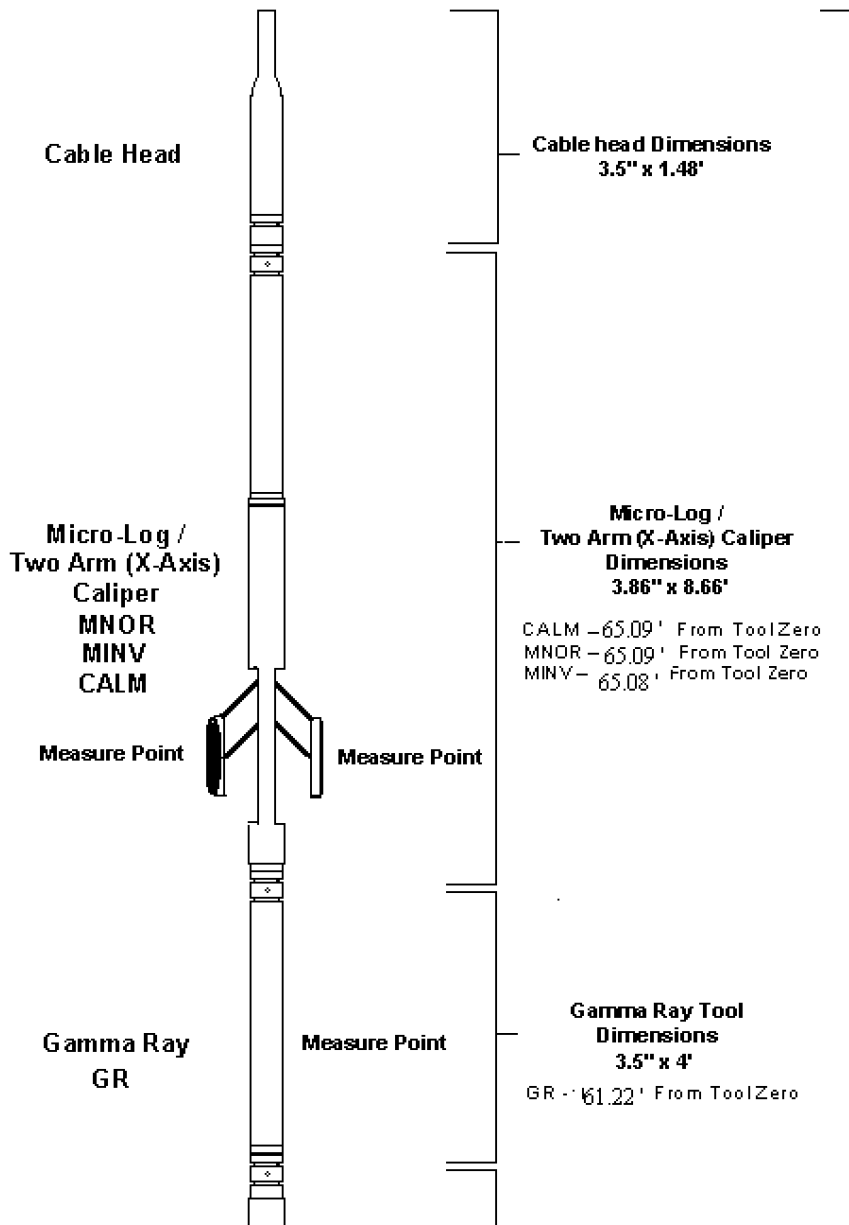
CEMENT VOLUME CALCULATIONS SUMMARY

Tool Type	LDT-CNT	Caliper Type		
Tool Serial #	RN2016 / RL4102			
	Borehole Total	Annular Volume with Casing	From Depth (MKb)	To Depth (MKb)
VOLUMES	1751 Cubic Feet	1049 Cubic Feet	290	4540

CASING INFORMATION

	SIZE (in)	GRADE	WEIGHT (lbs/ft)	ID (in)	TOP DEPTH	BOT DEPTH
SURFACE CASING	8 5/8	N/A	N/A	N/A	Surface	305
INTERMEDIATE CASING	N/A	N/A	N/A	N/A	Surface	N/A
PRODUCTION CASING	5 1/2	N/A	N/A	N/A	Surface	4540

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
Measure Point

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

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

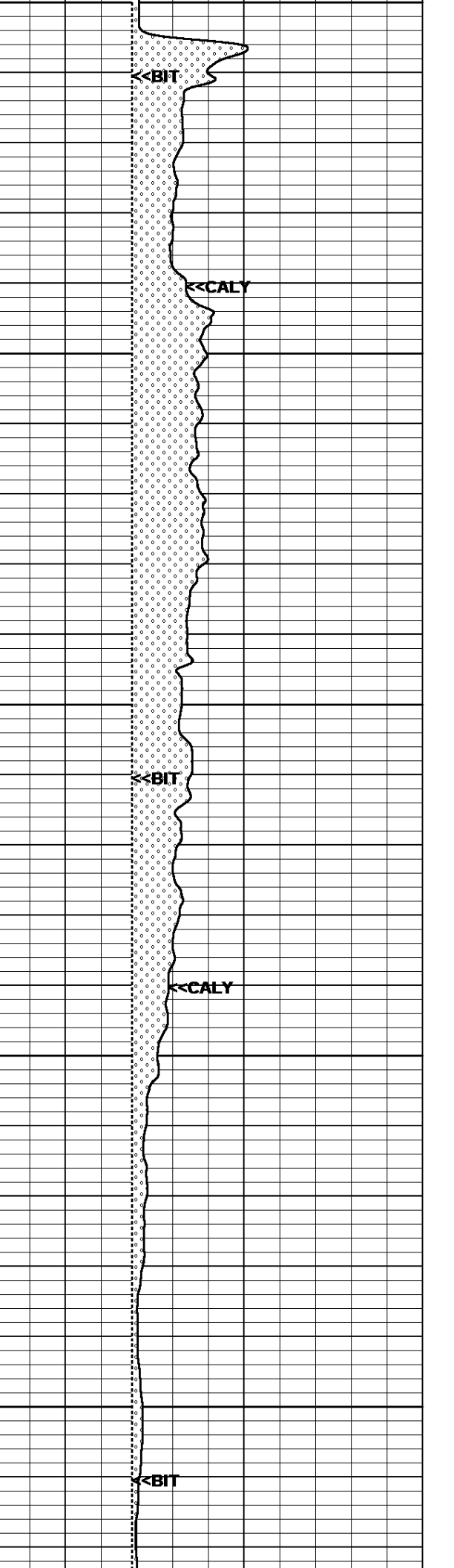
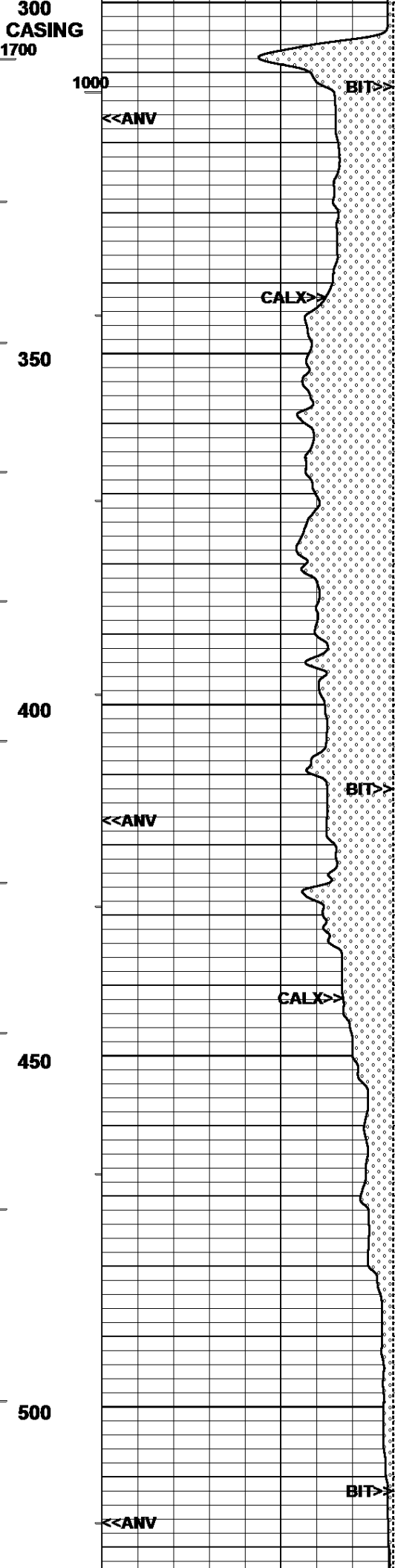
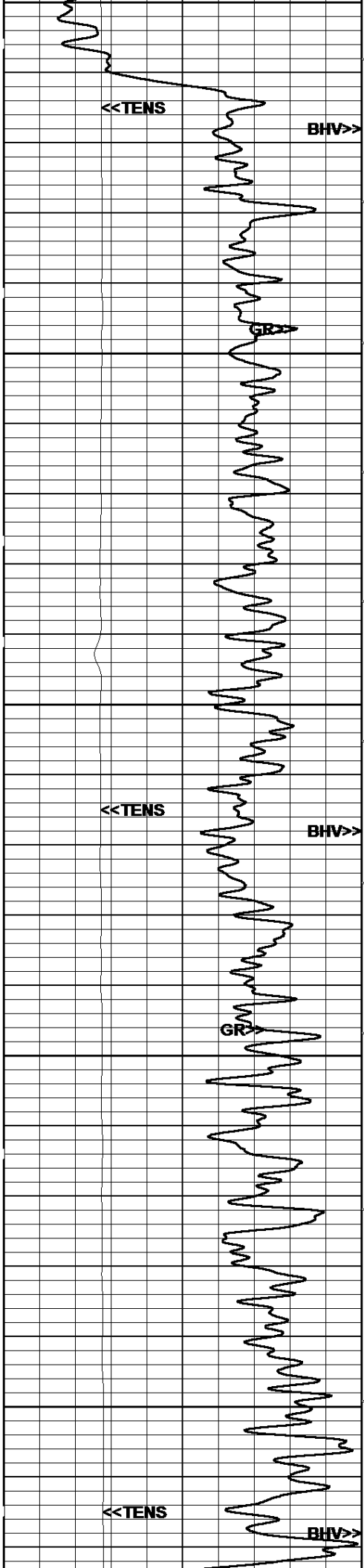
T1R1 - 33.35' From ToolZero
T1R2 - 31.35' From ToolZero

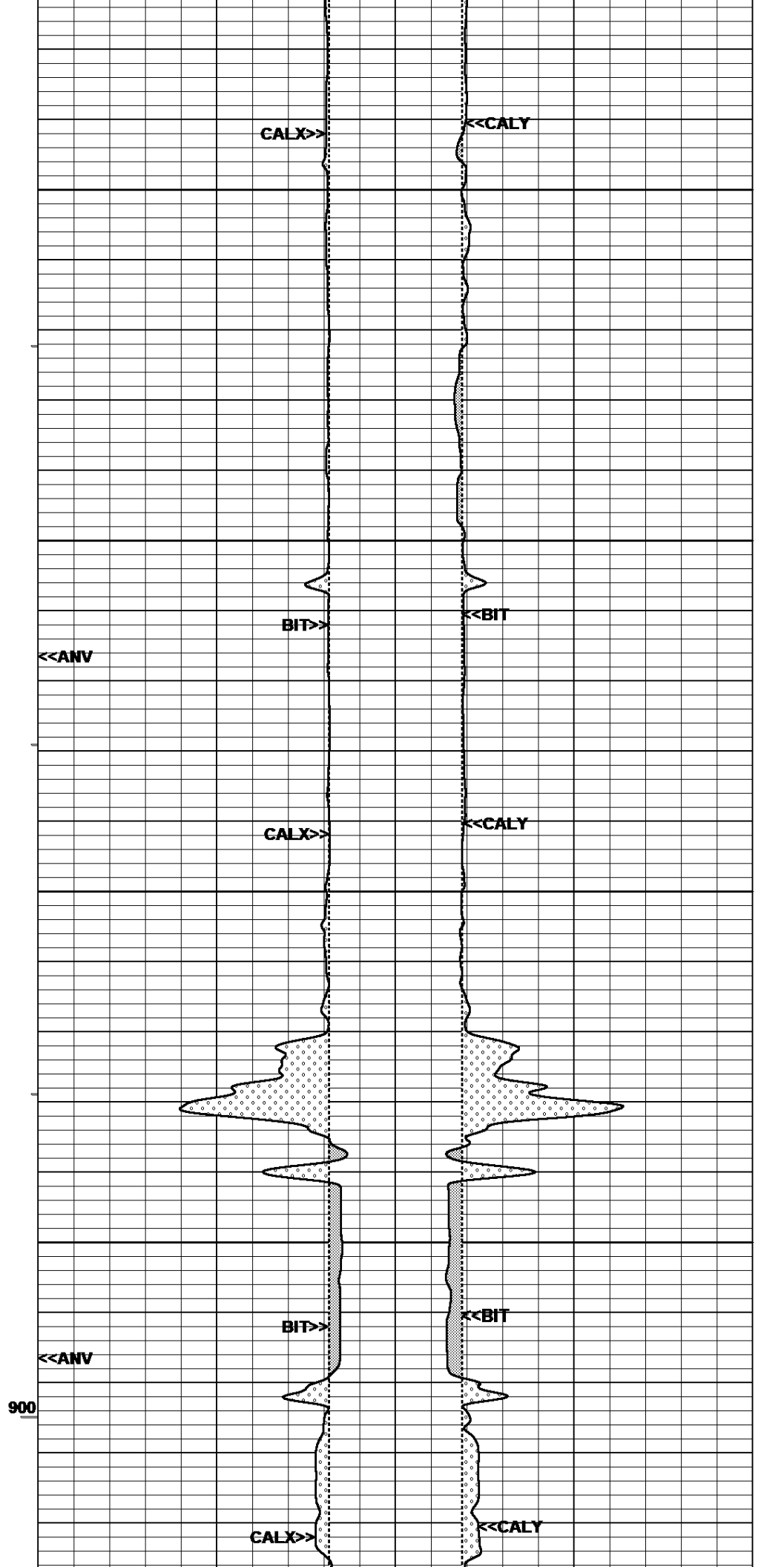
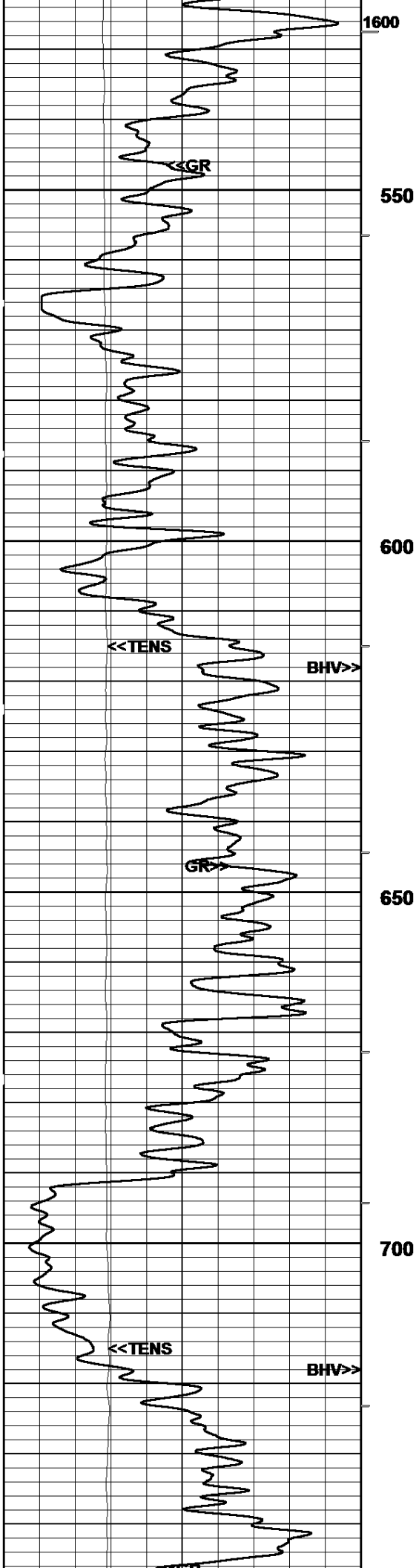
Measure Point
Tool First Reading
Point

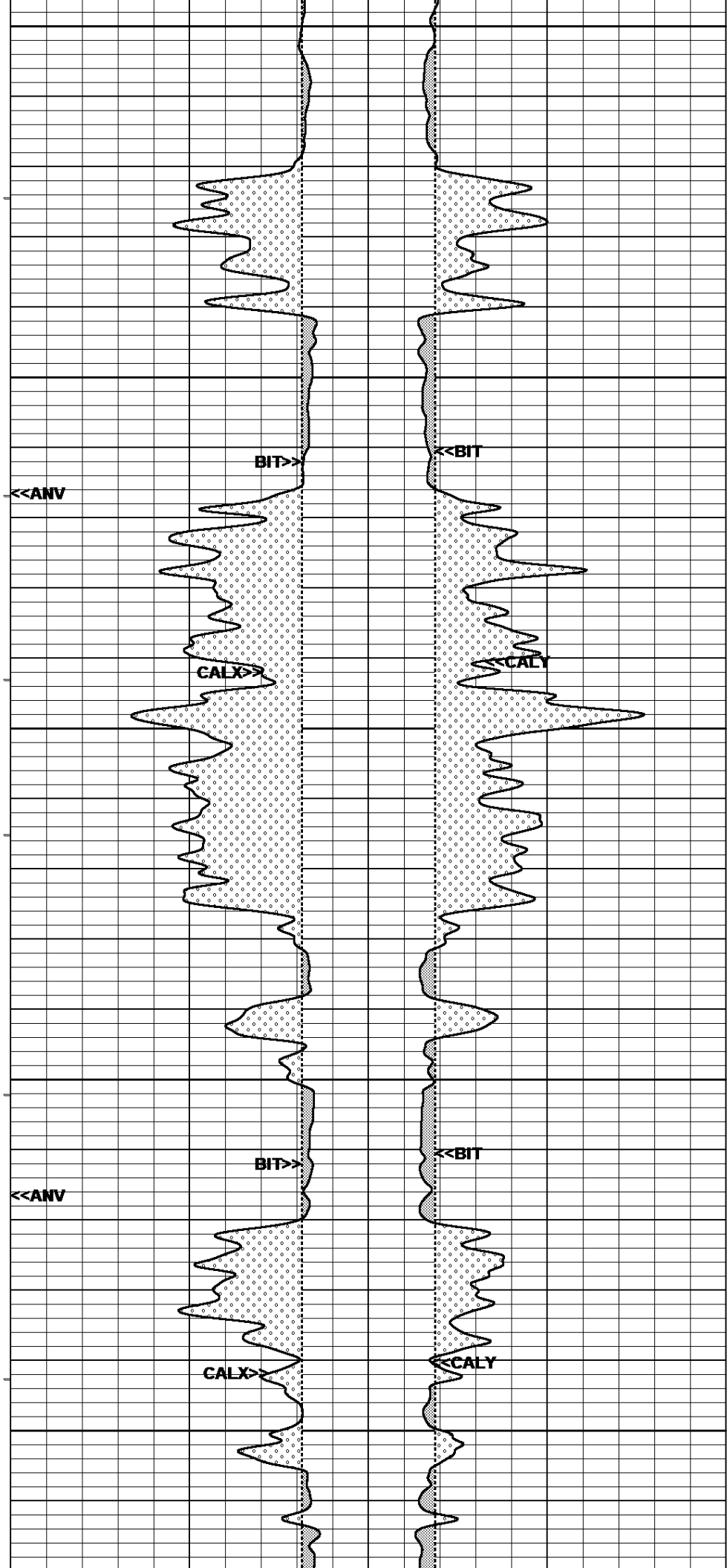
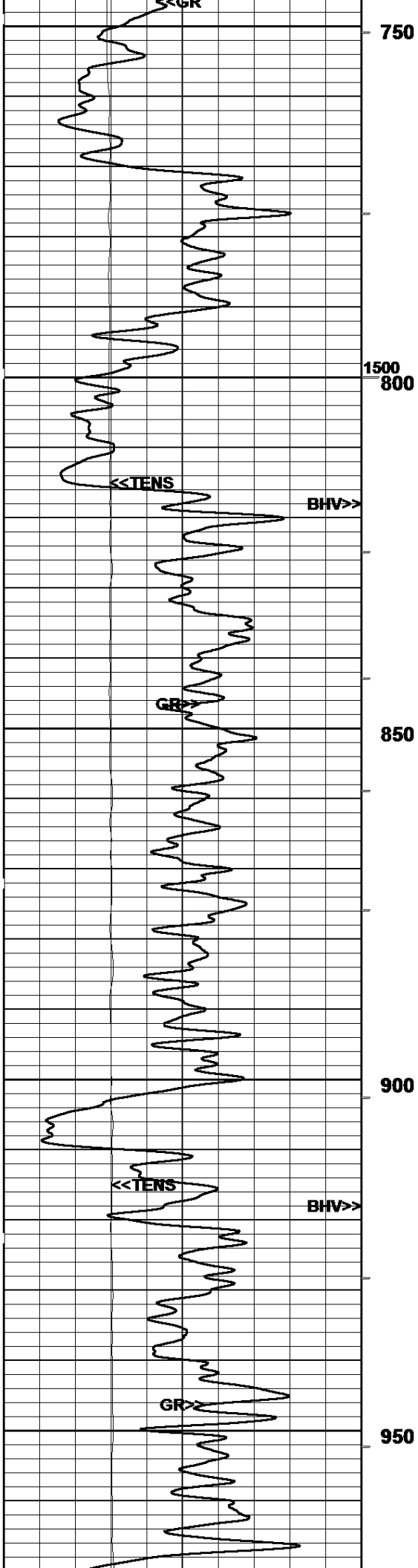
R-1
Receiver 1

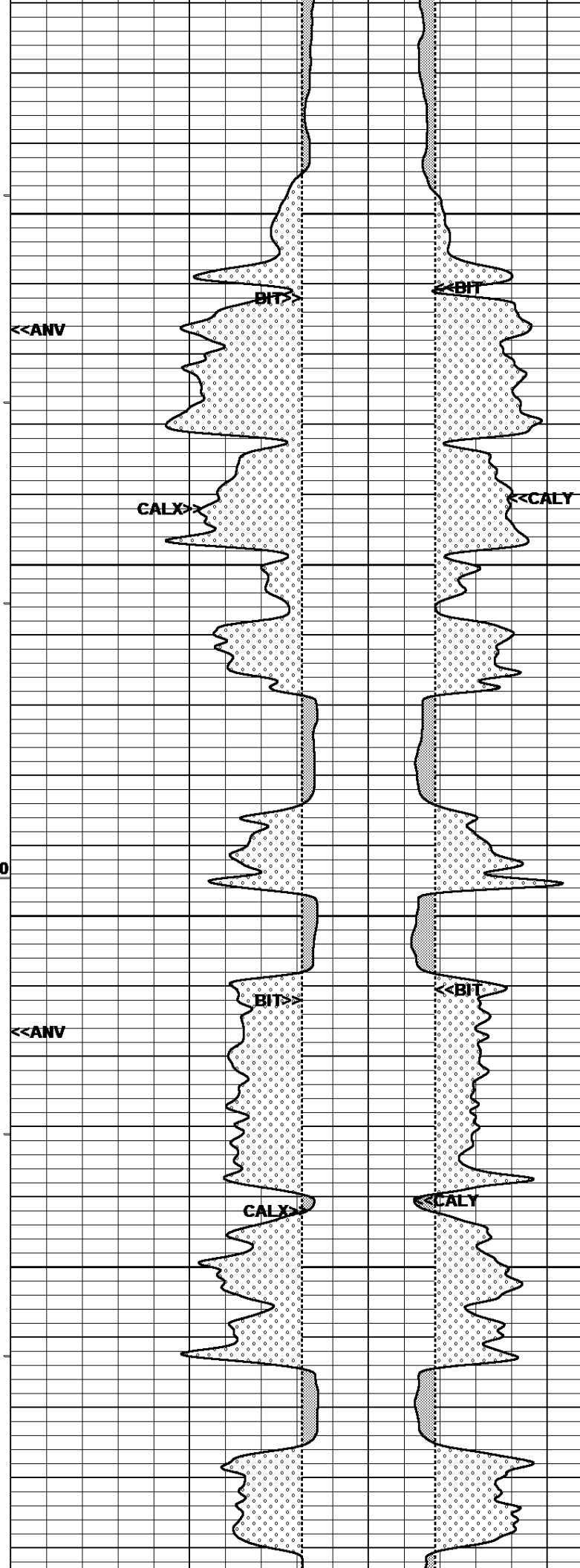
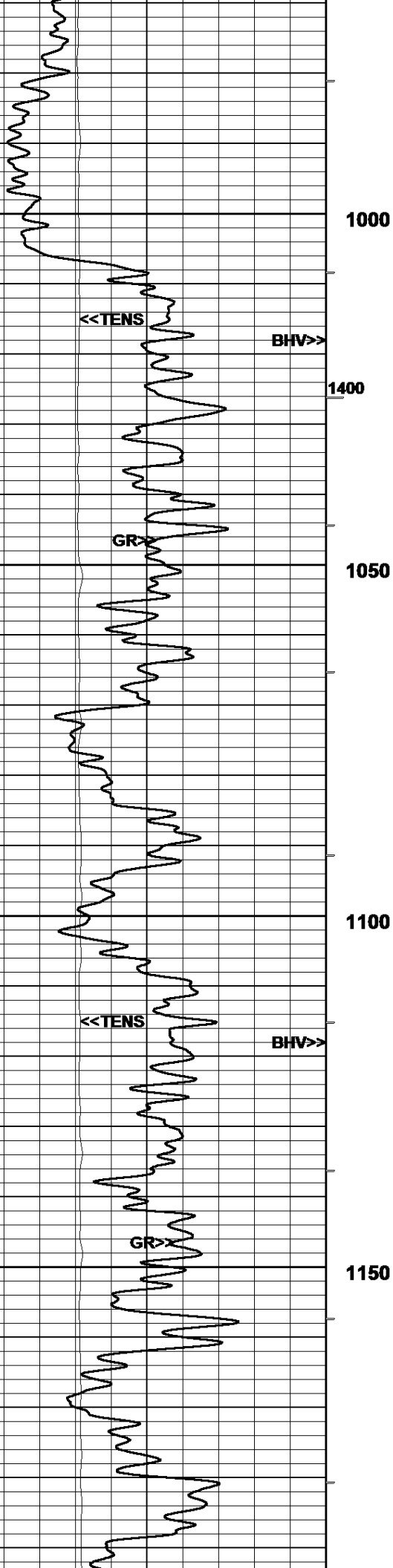
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Receiver 2

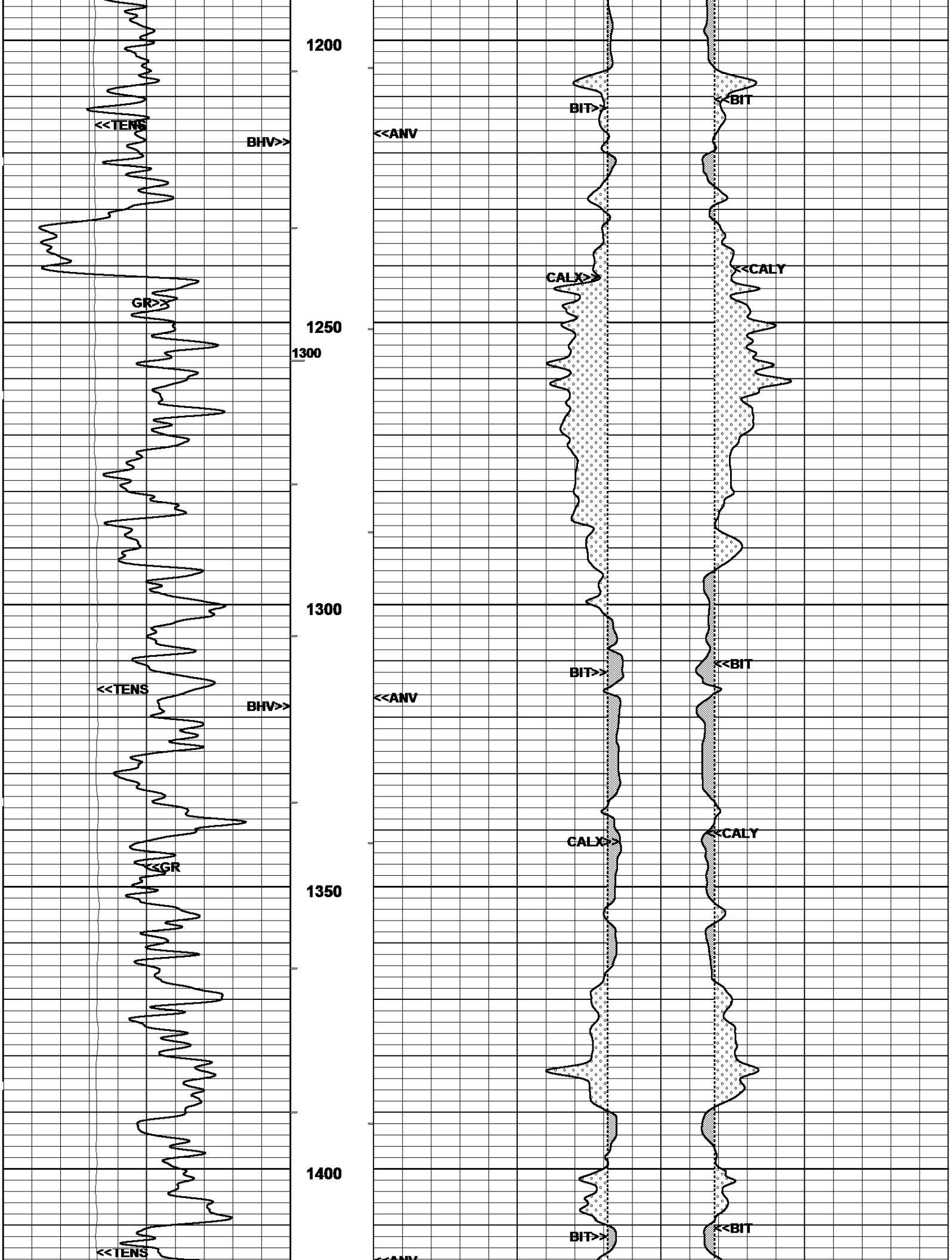
T2R1 - 28.54' From ToolZero

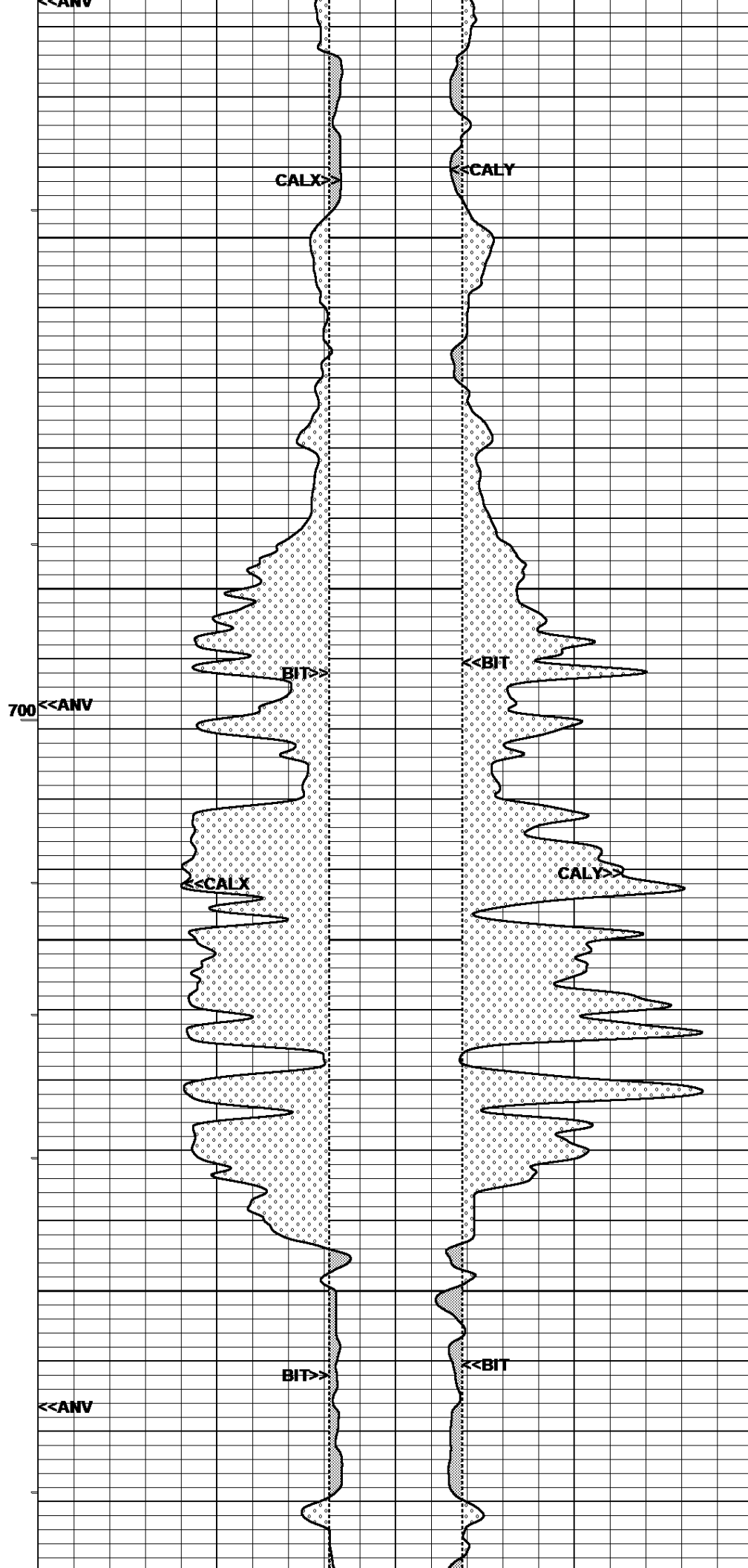
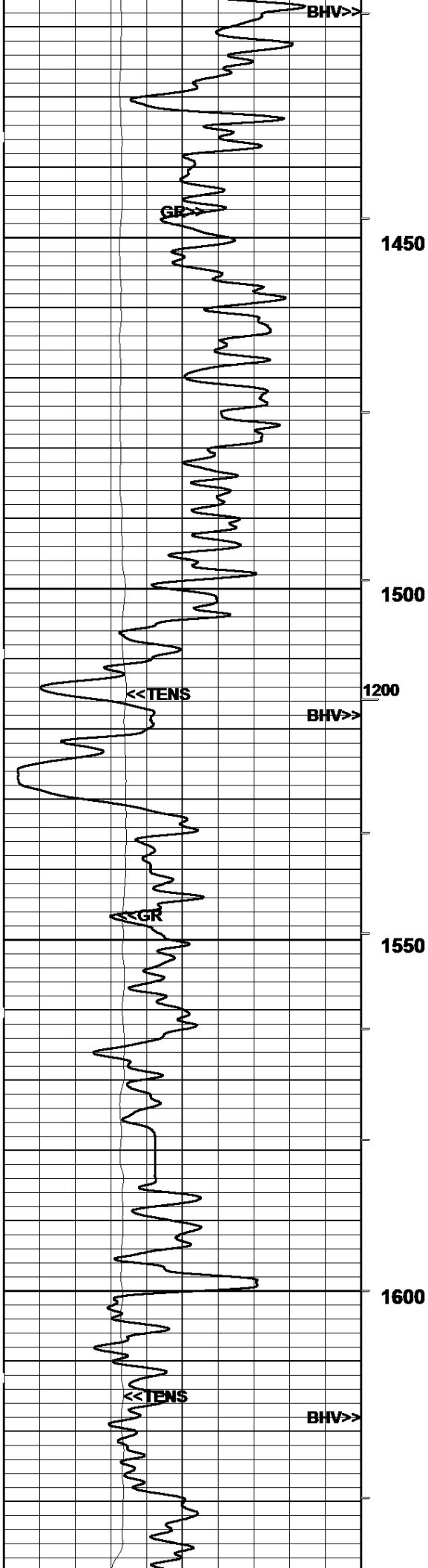


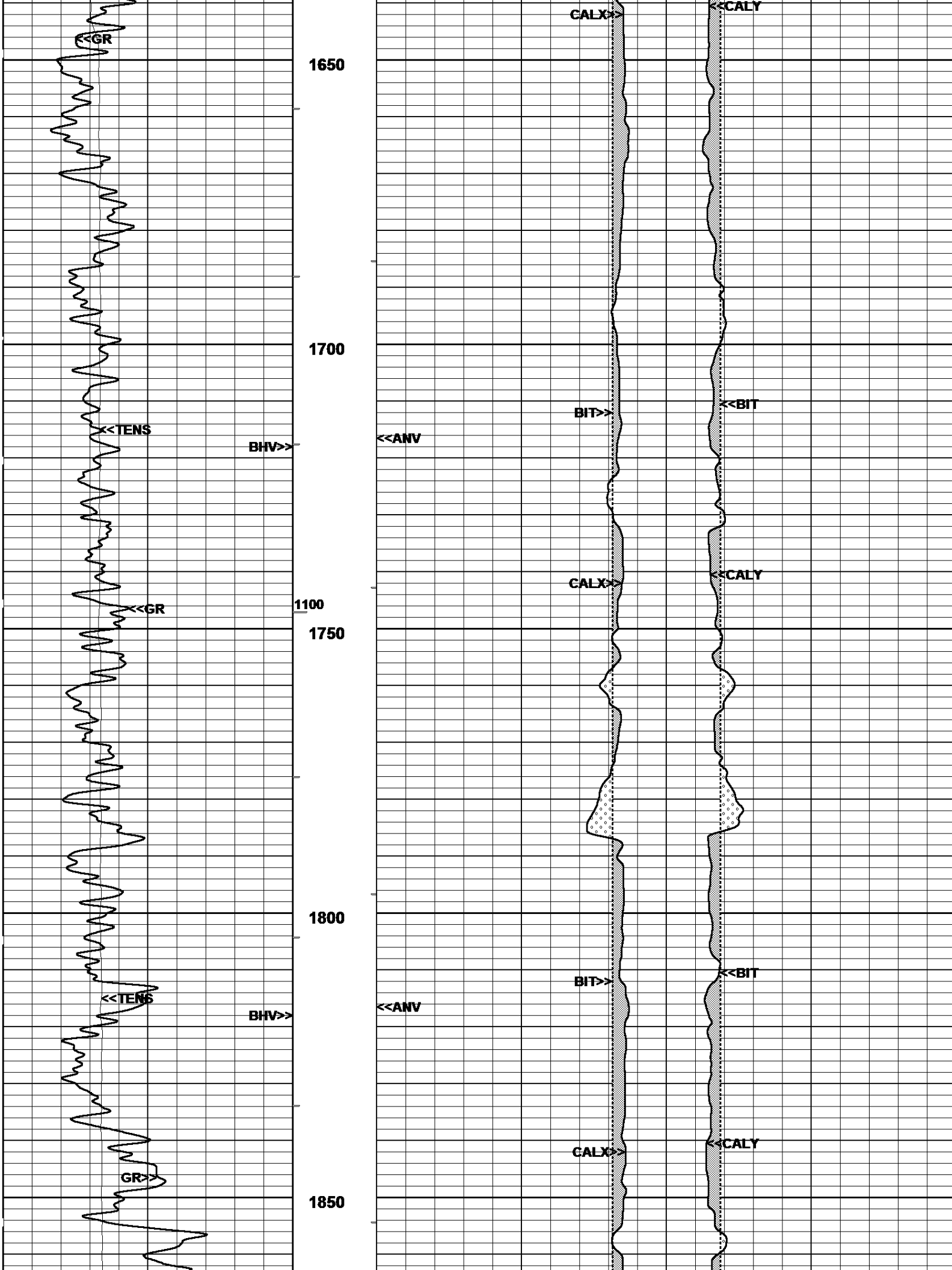


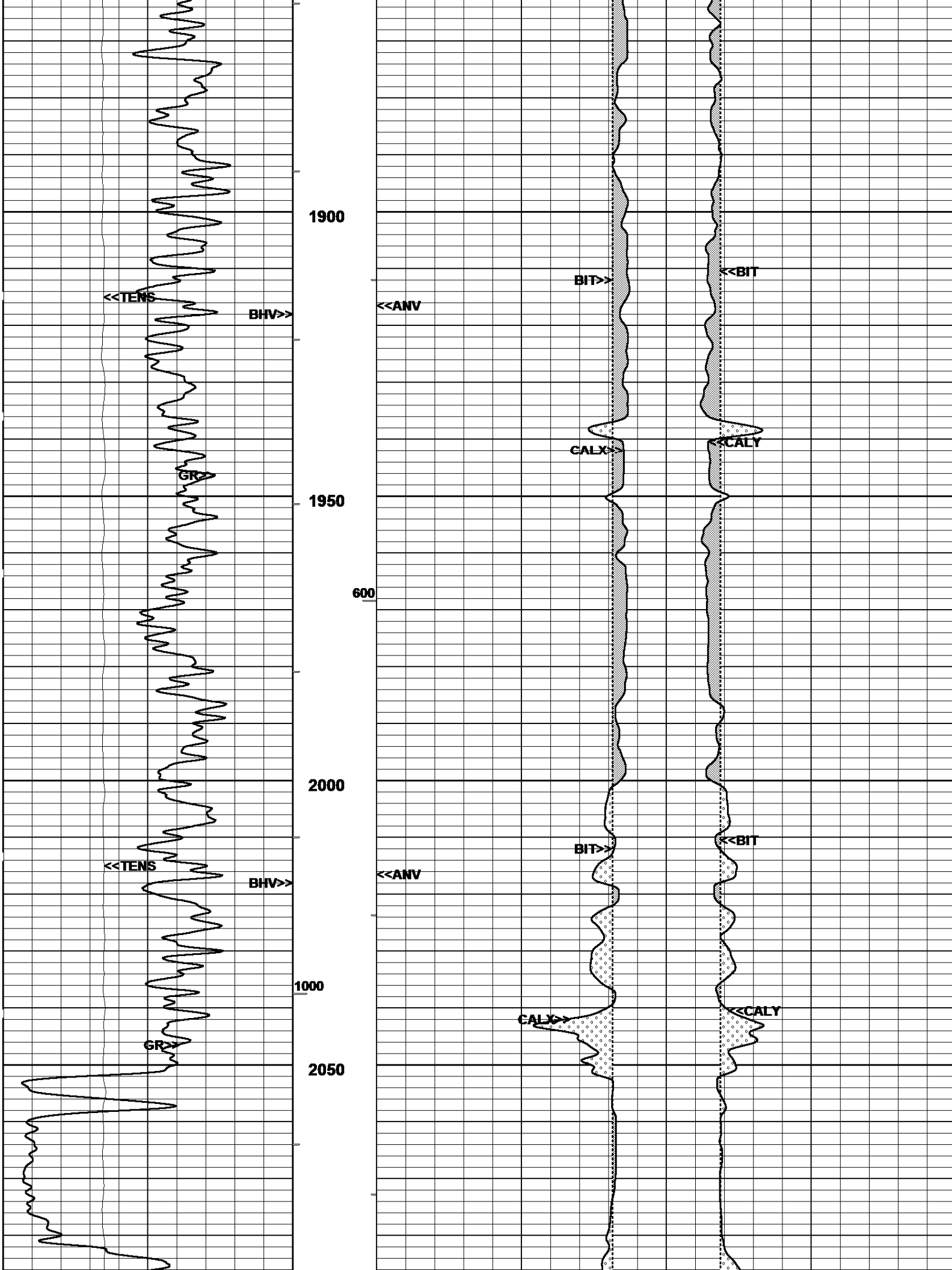


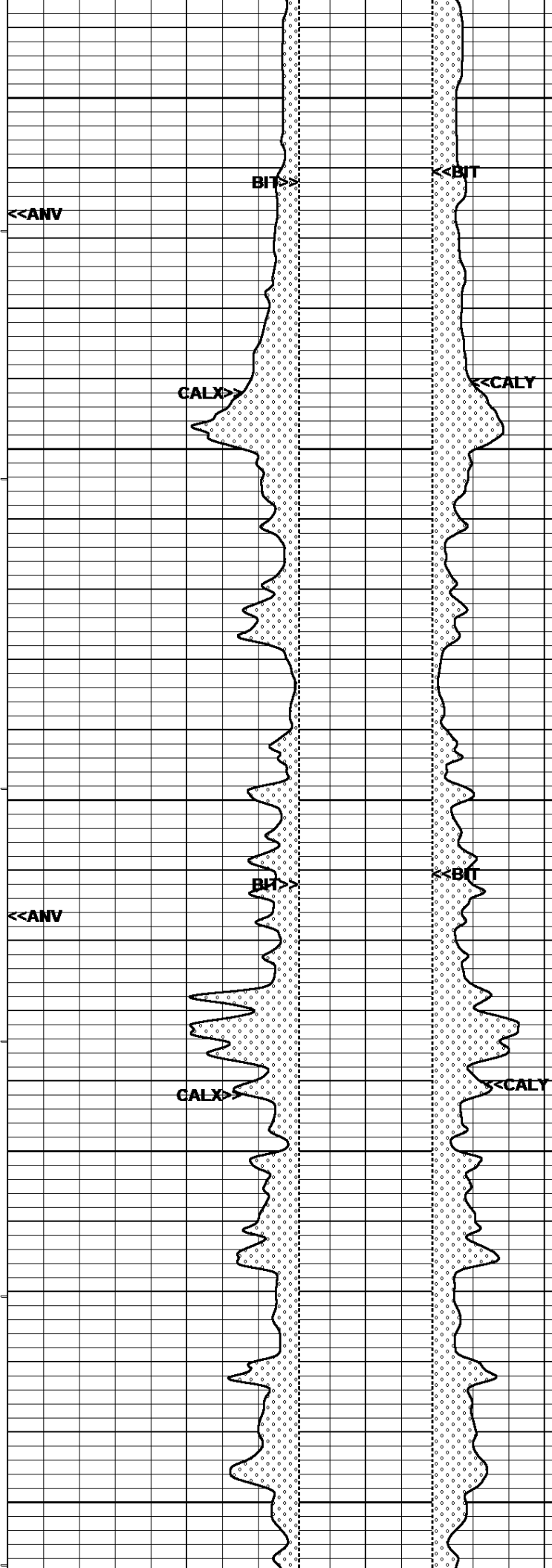
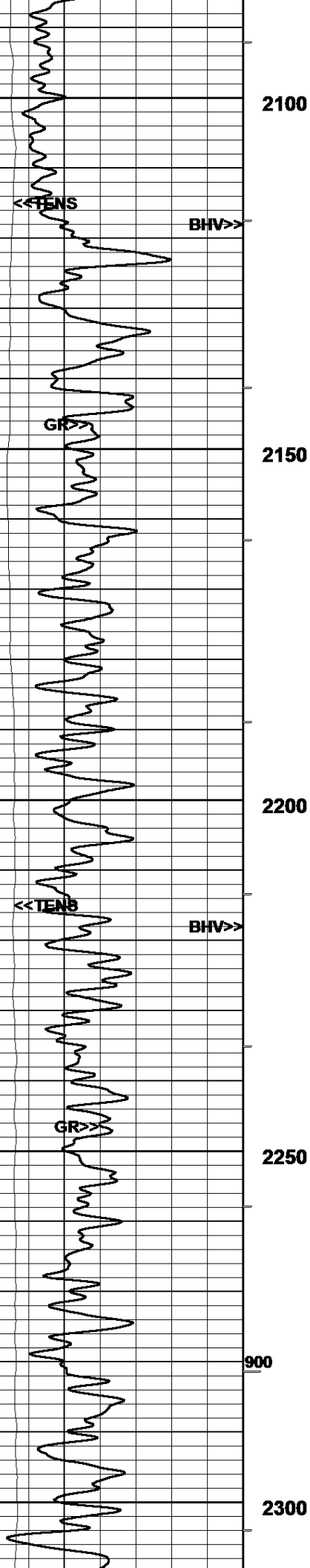


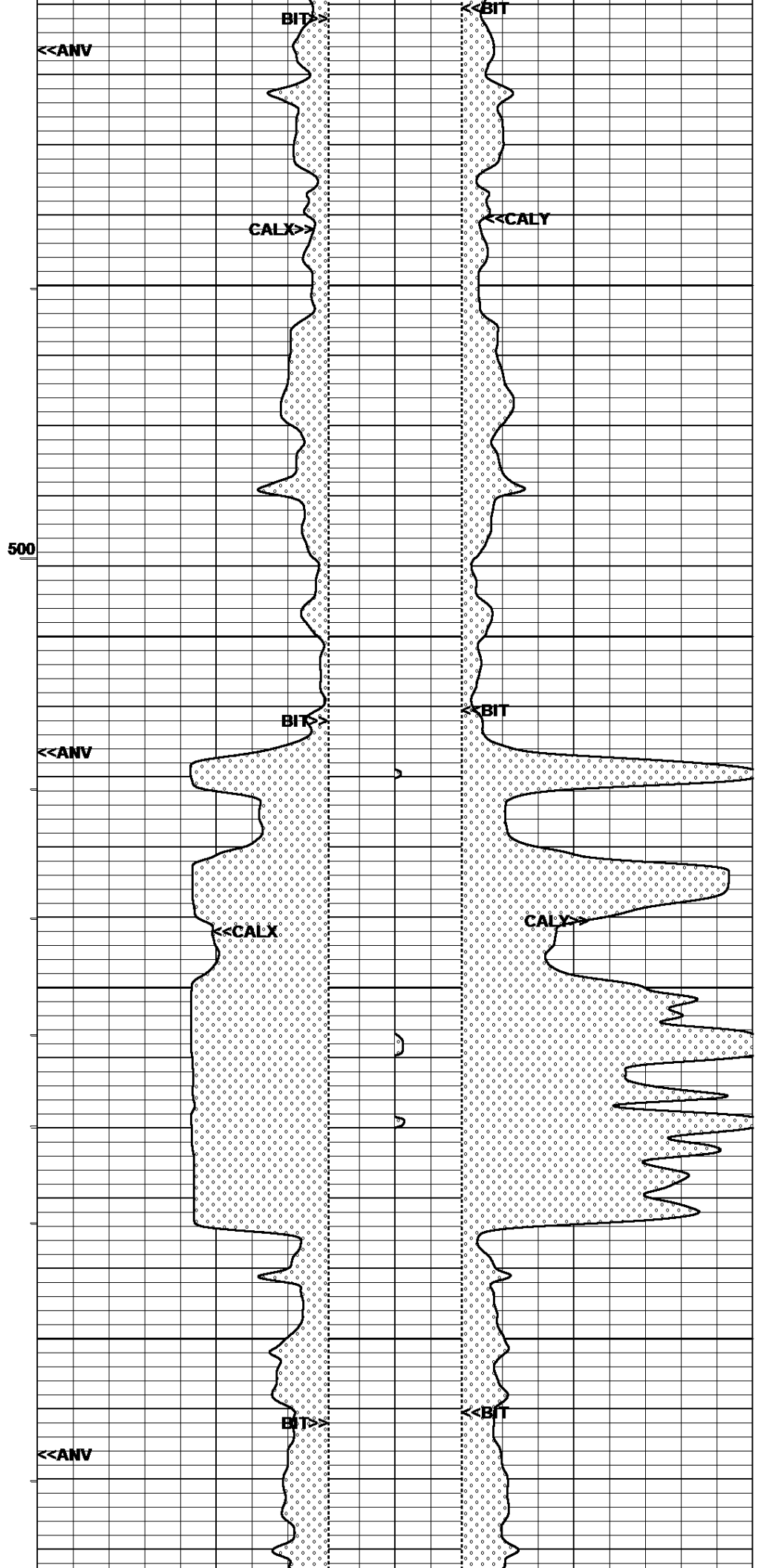
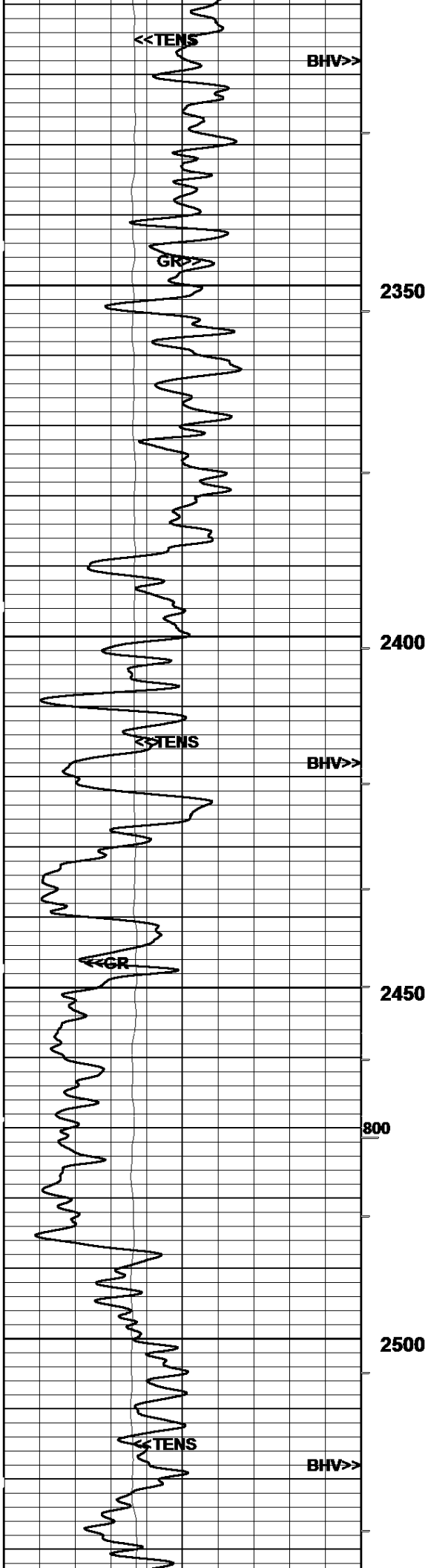


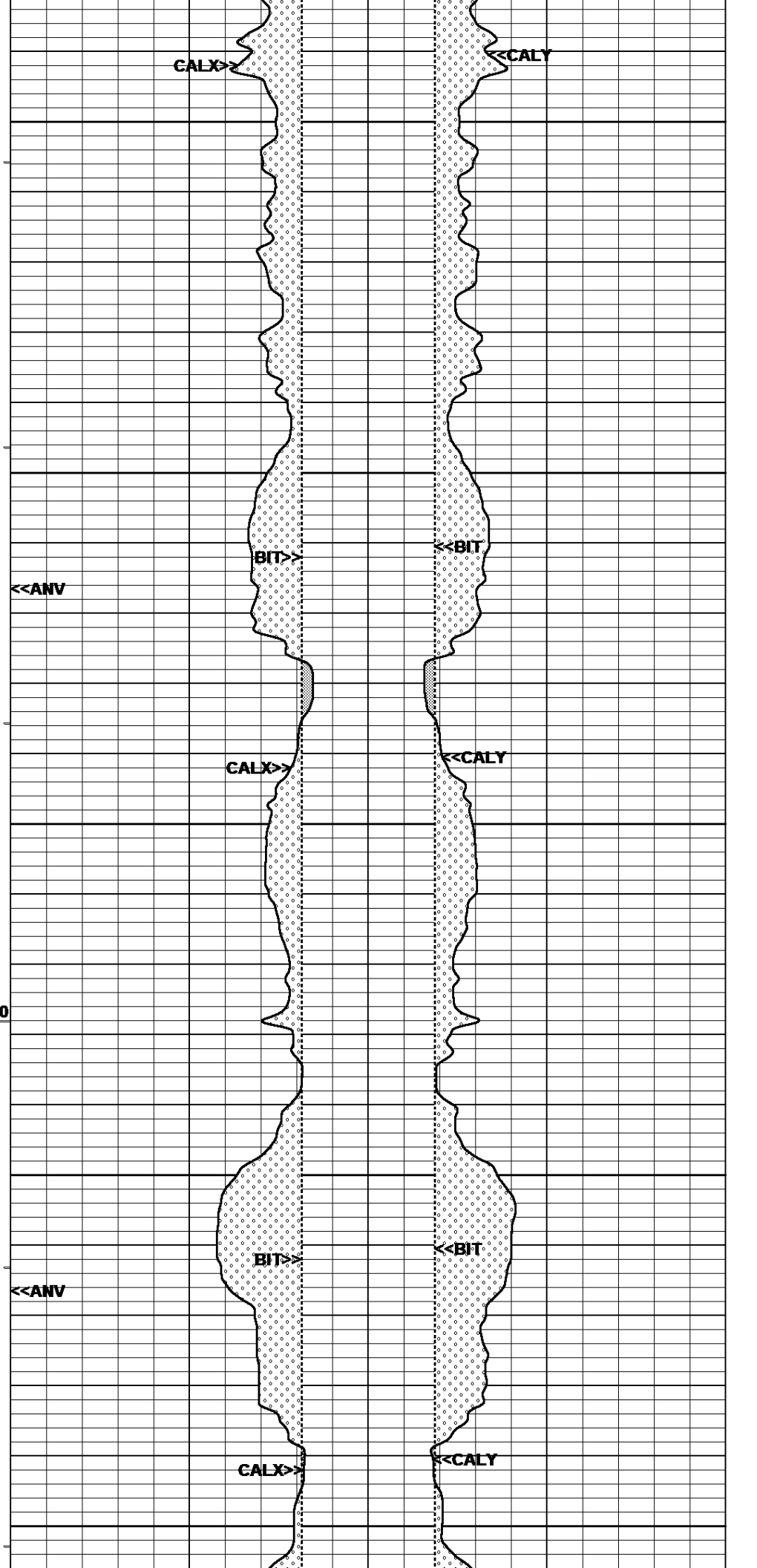
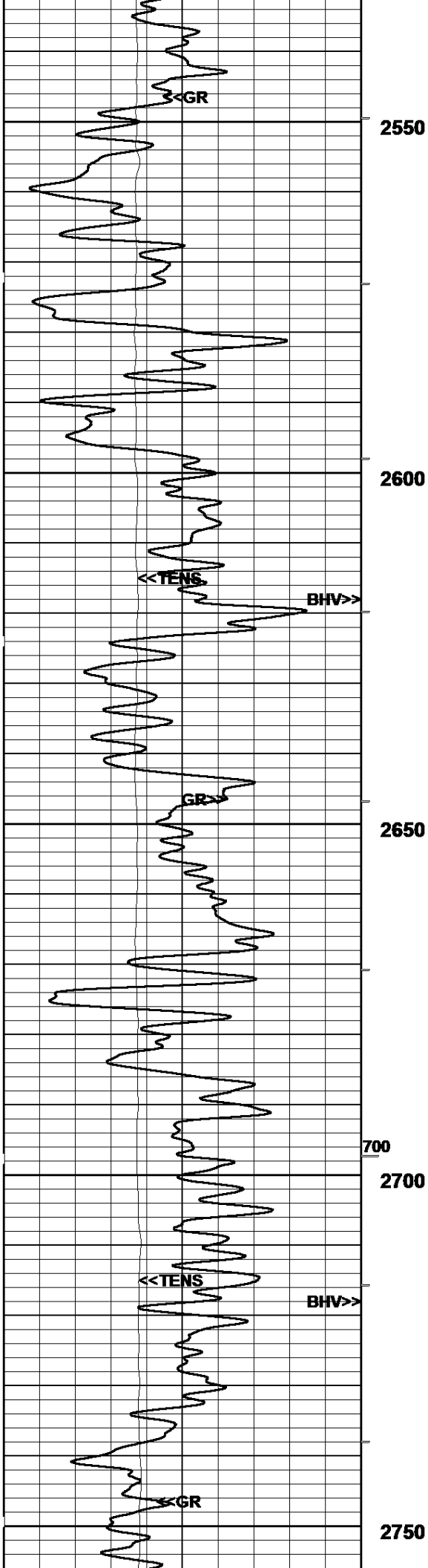


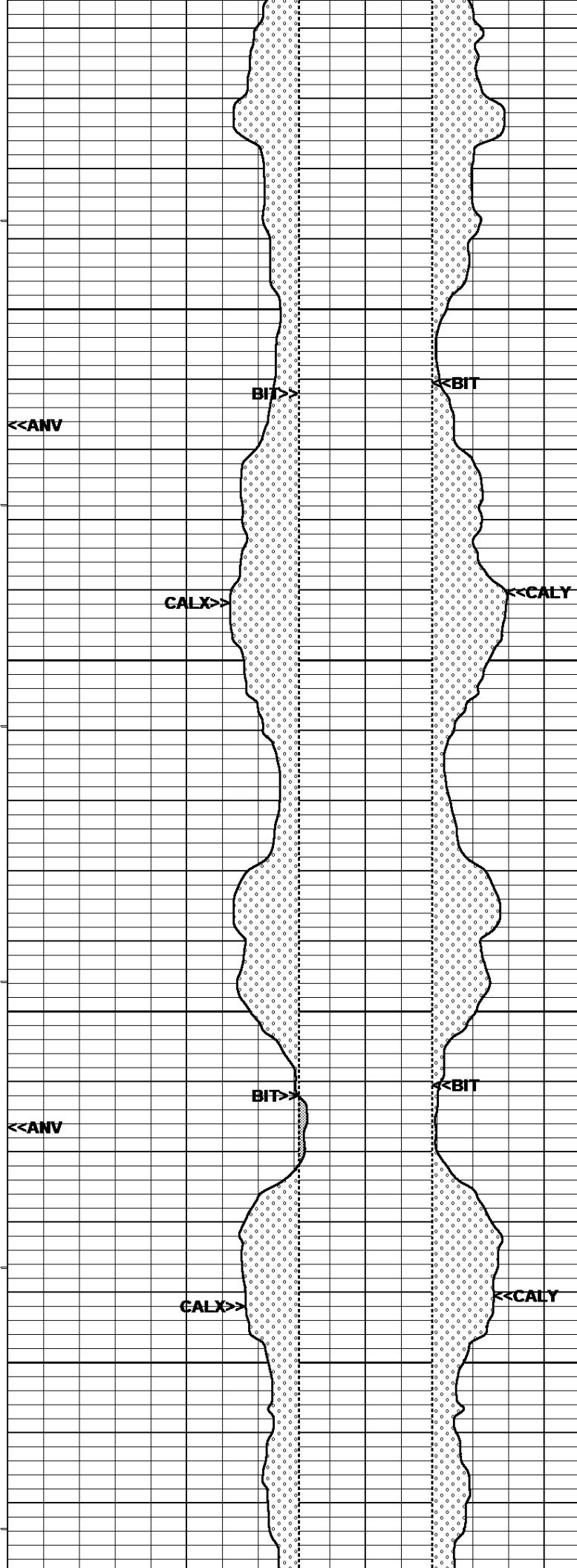
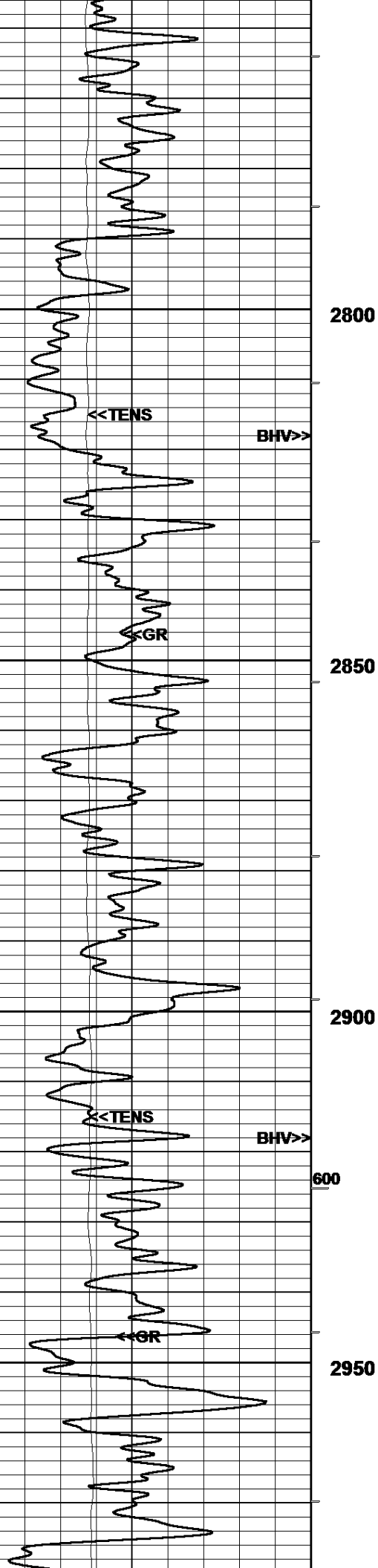


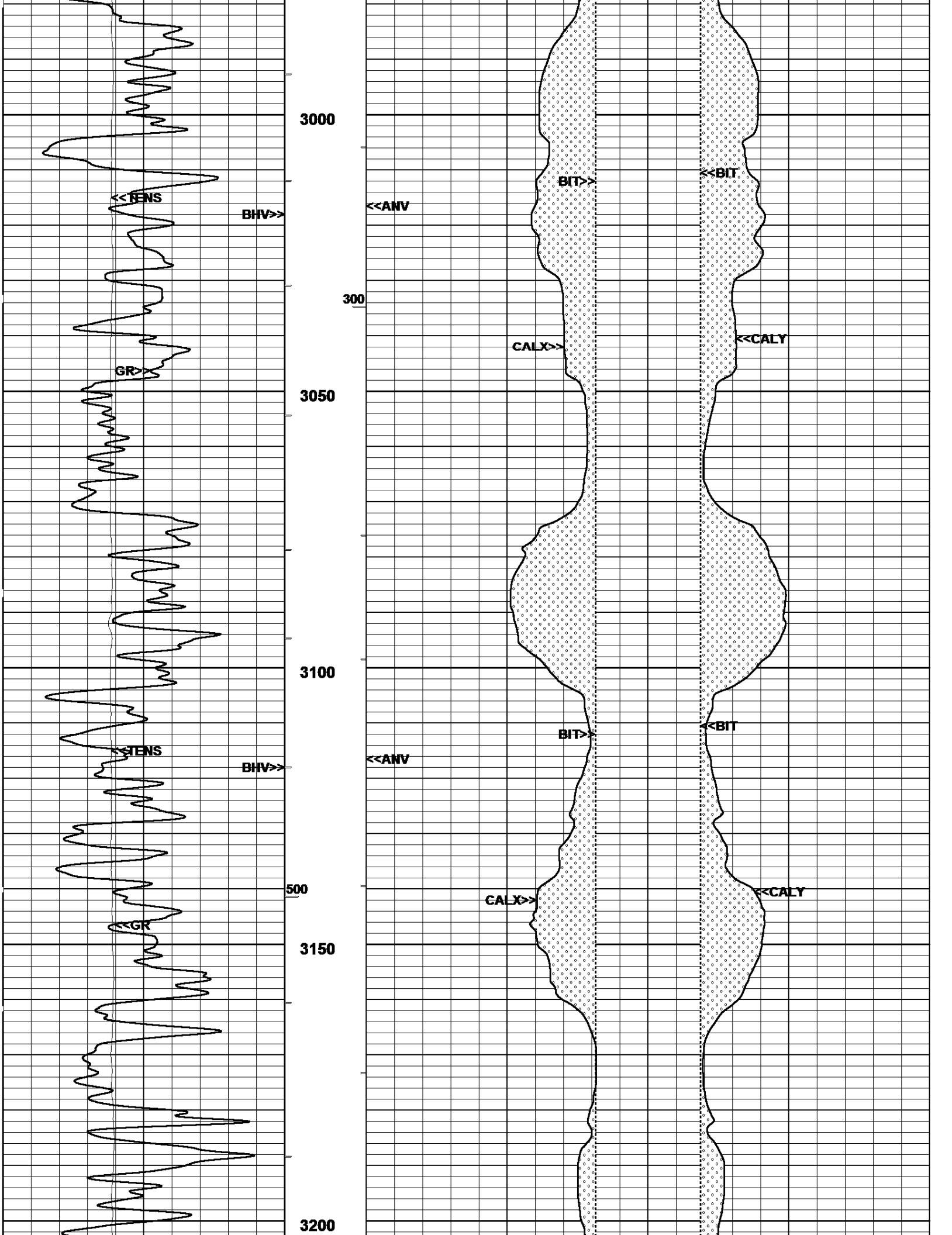


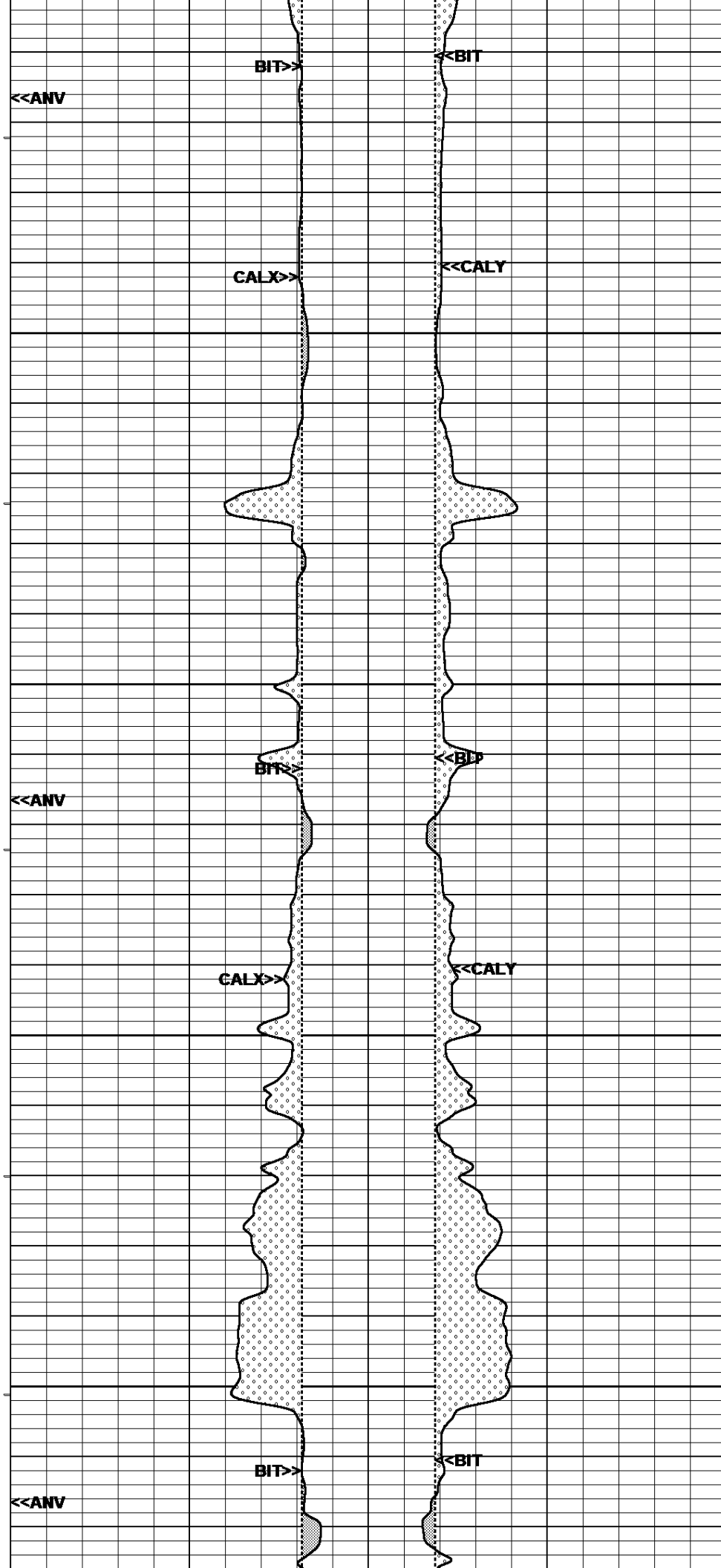
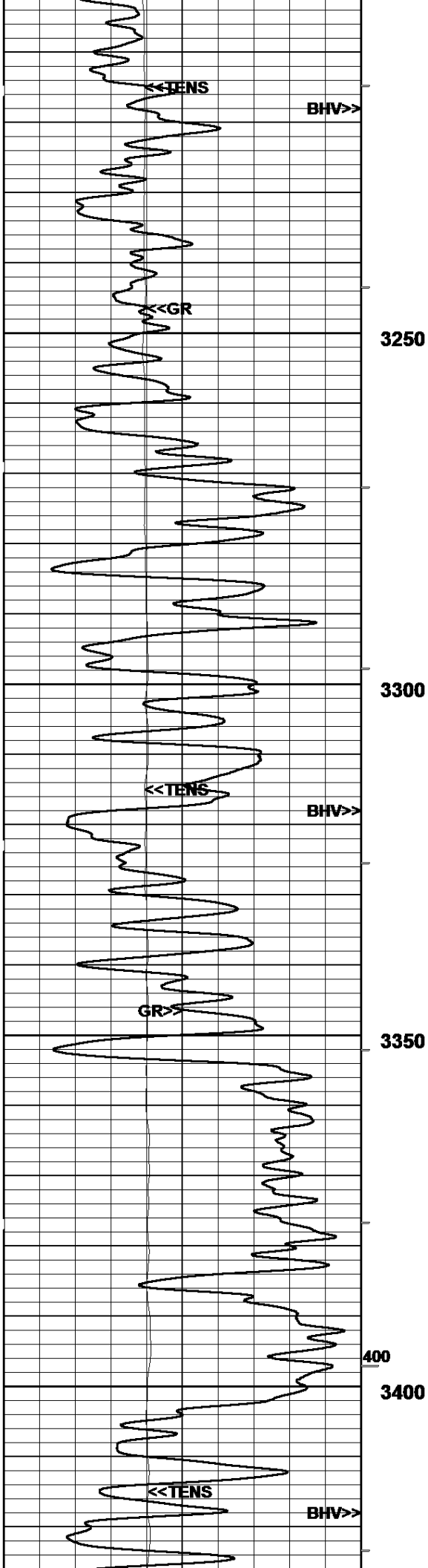


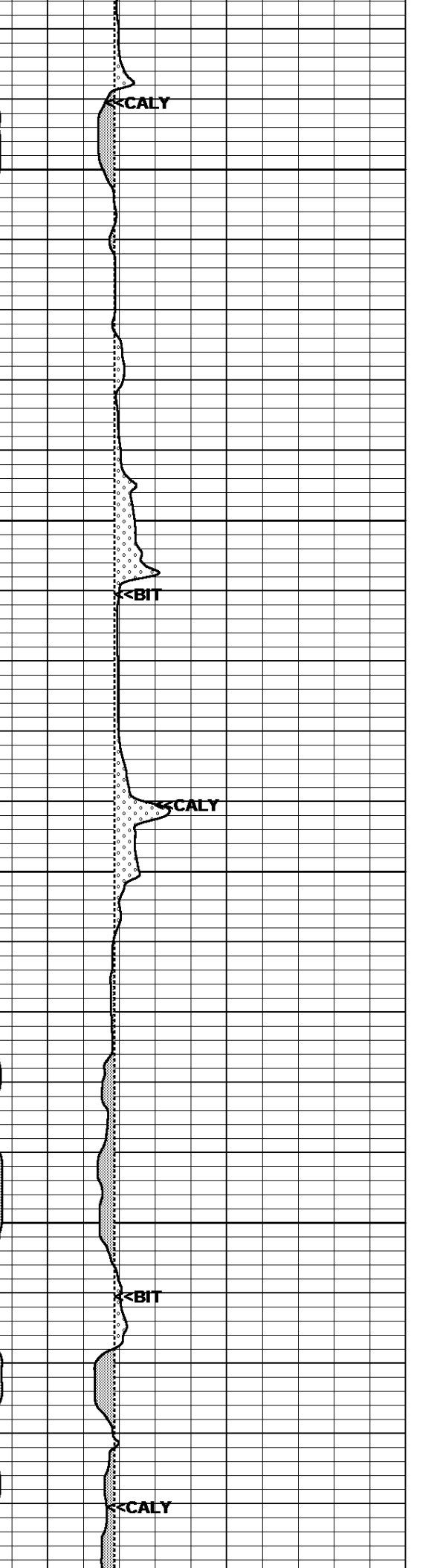
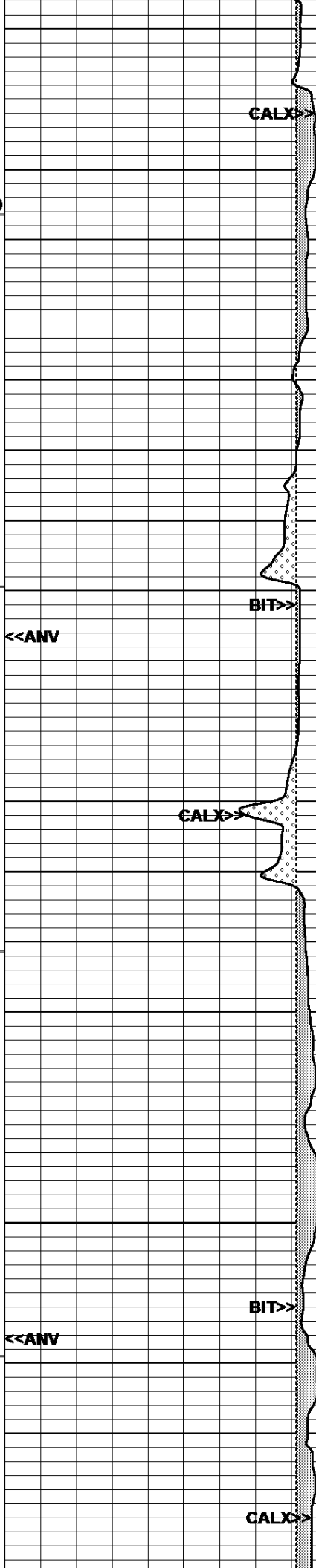
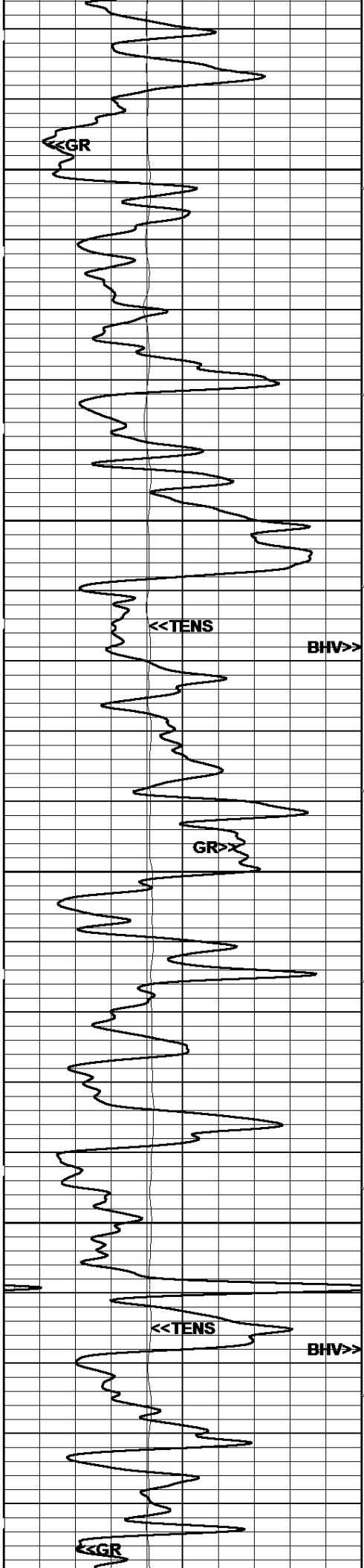


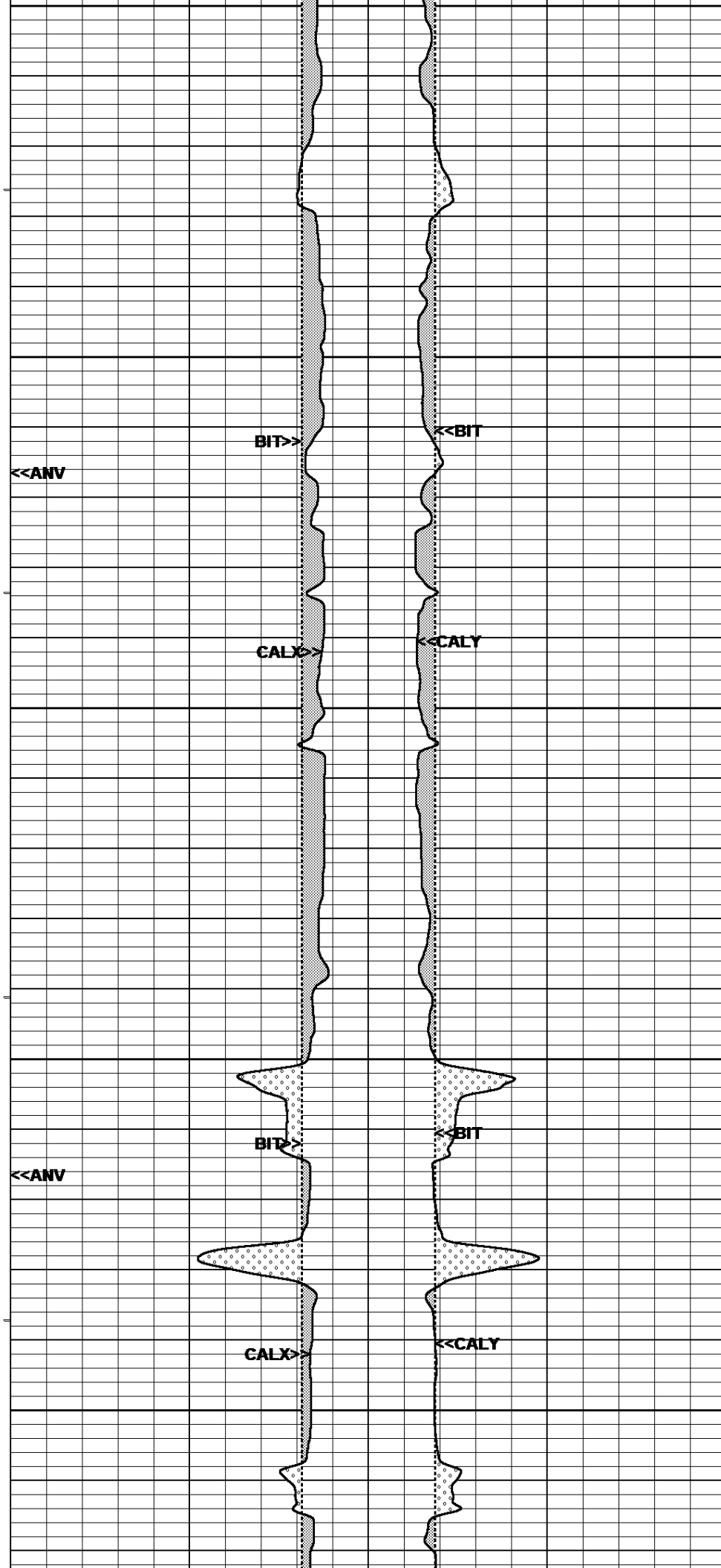
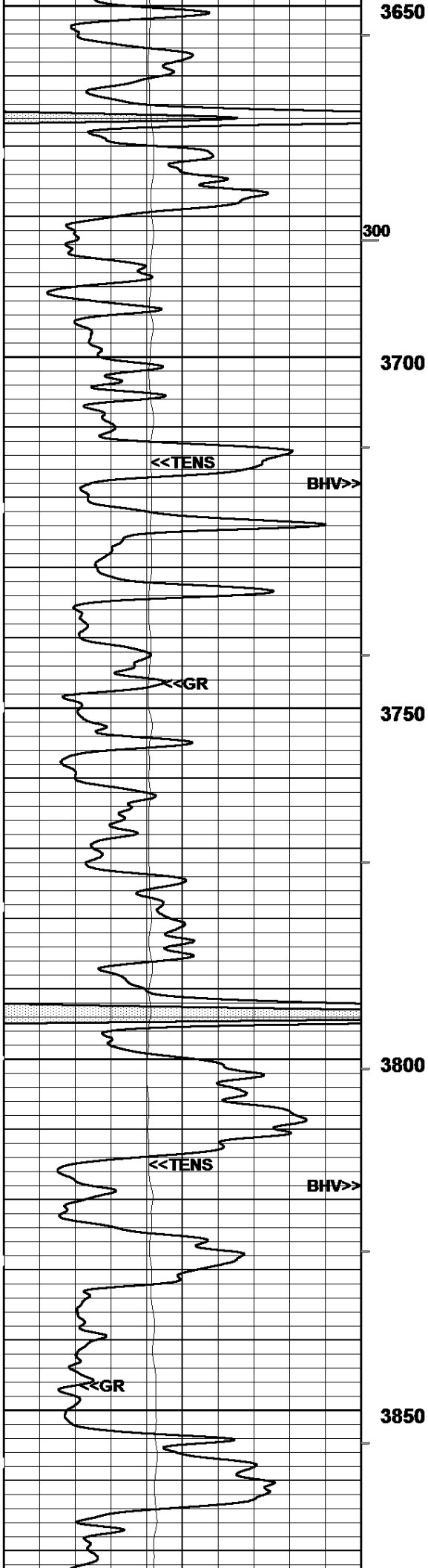


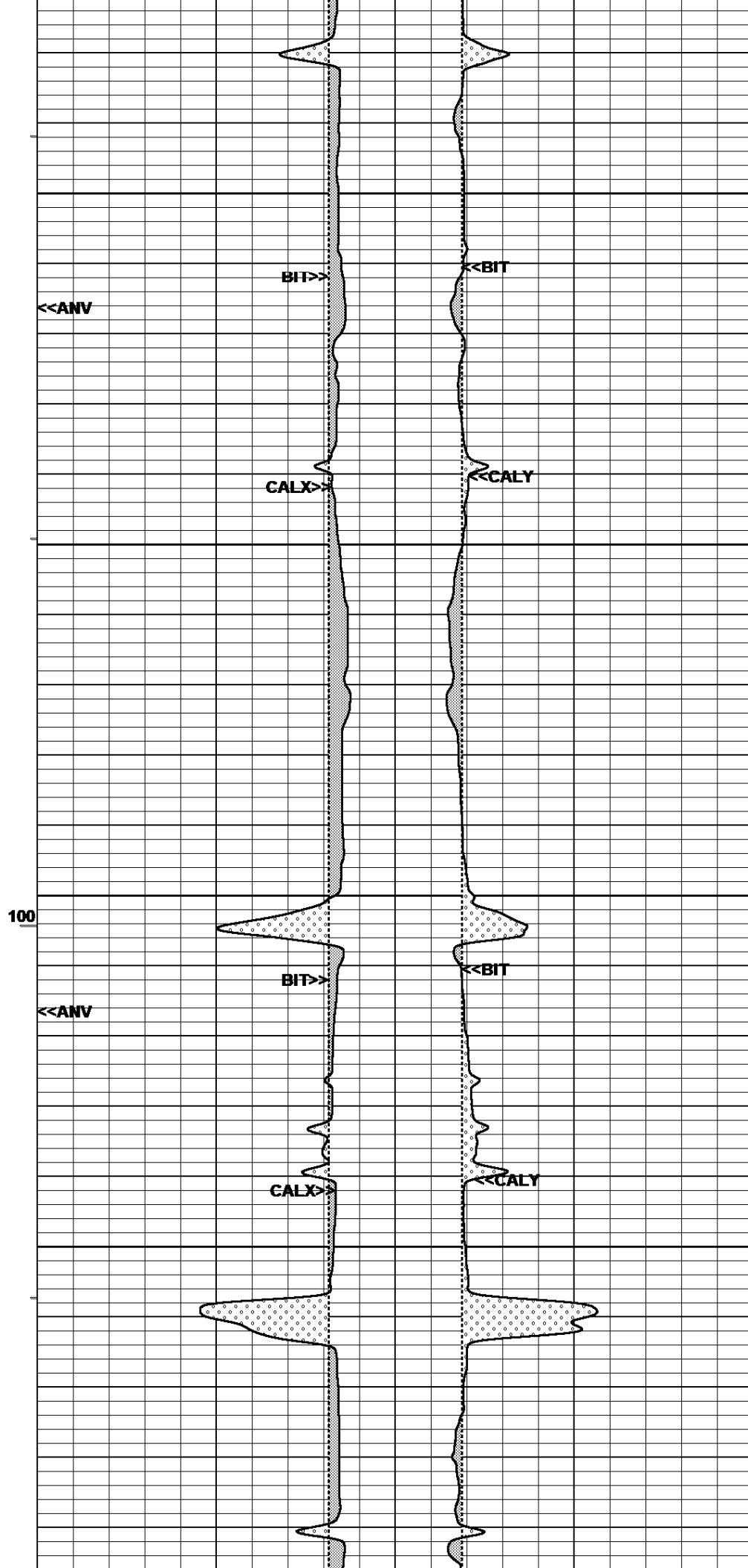
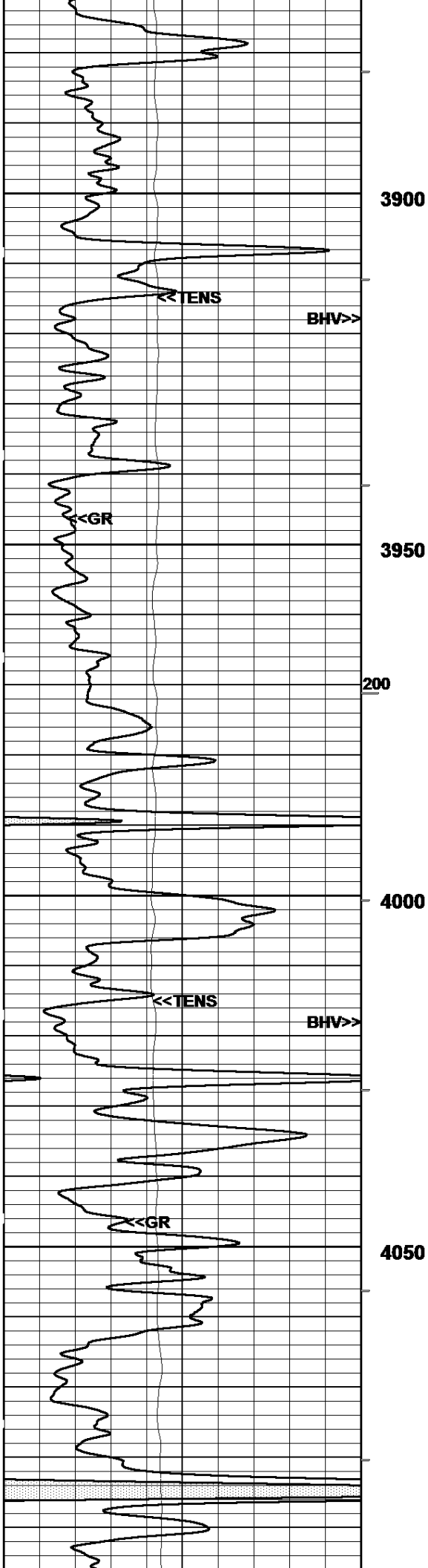


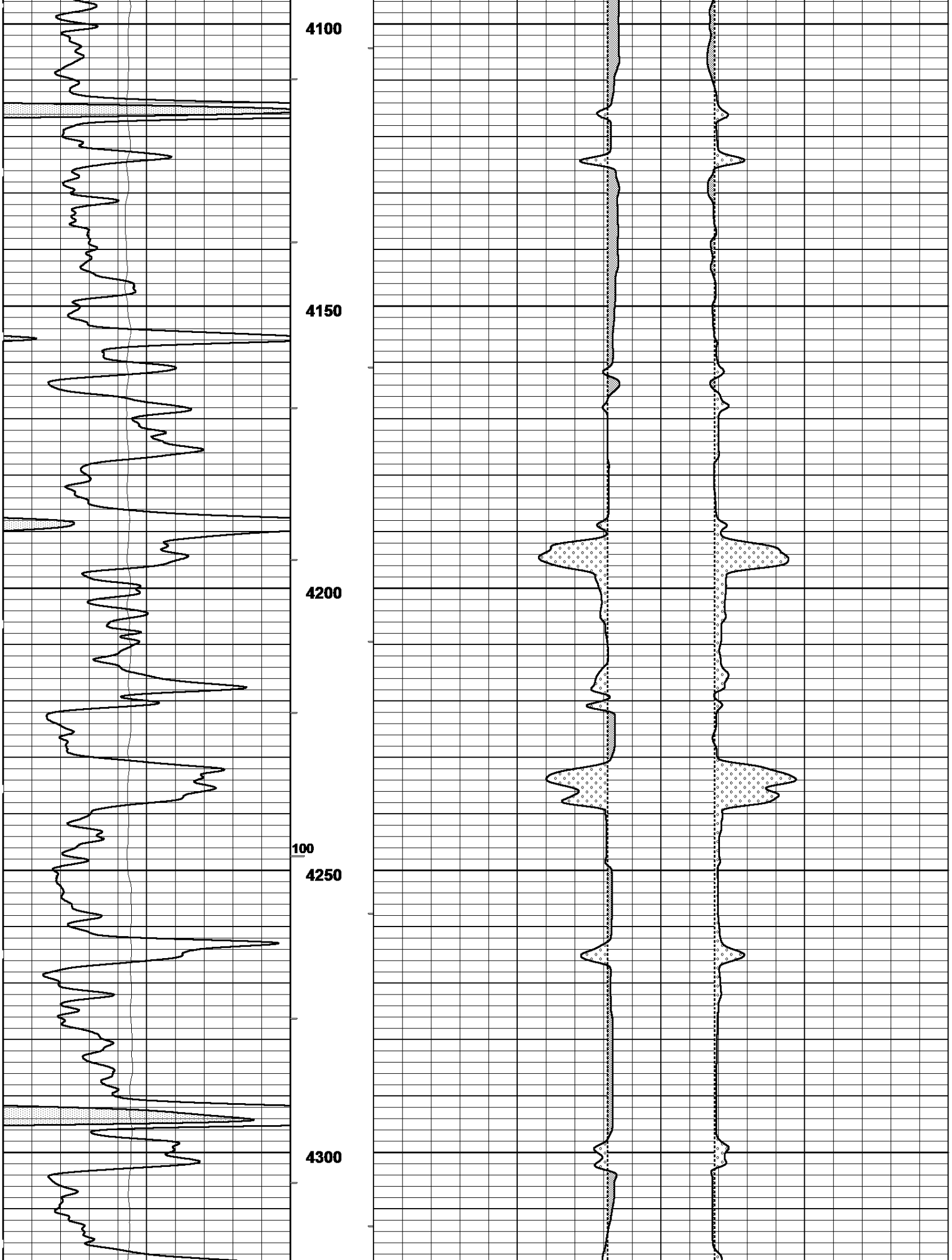


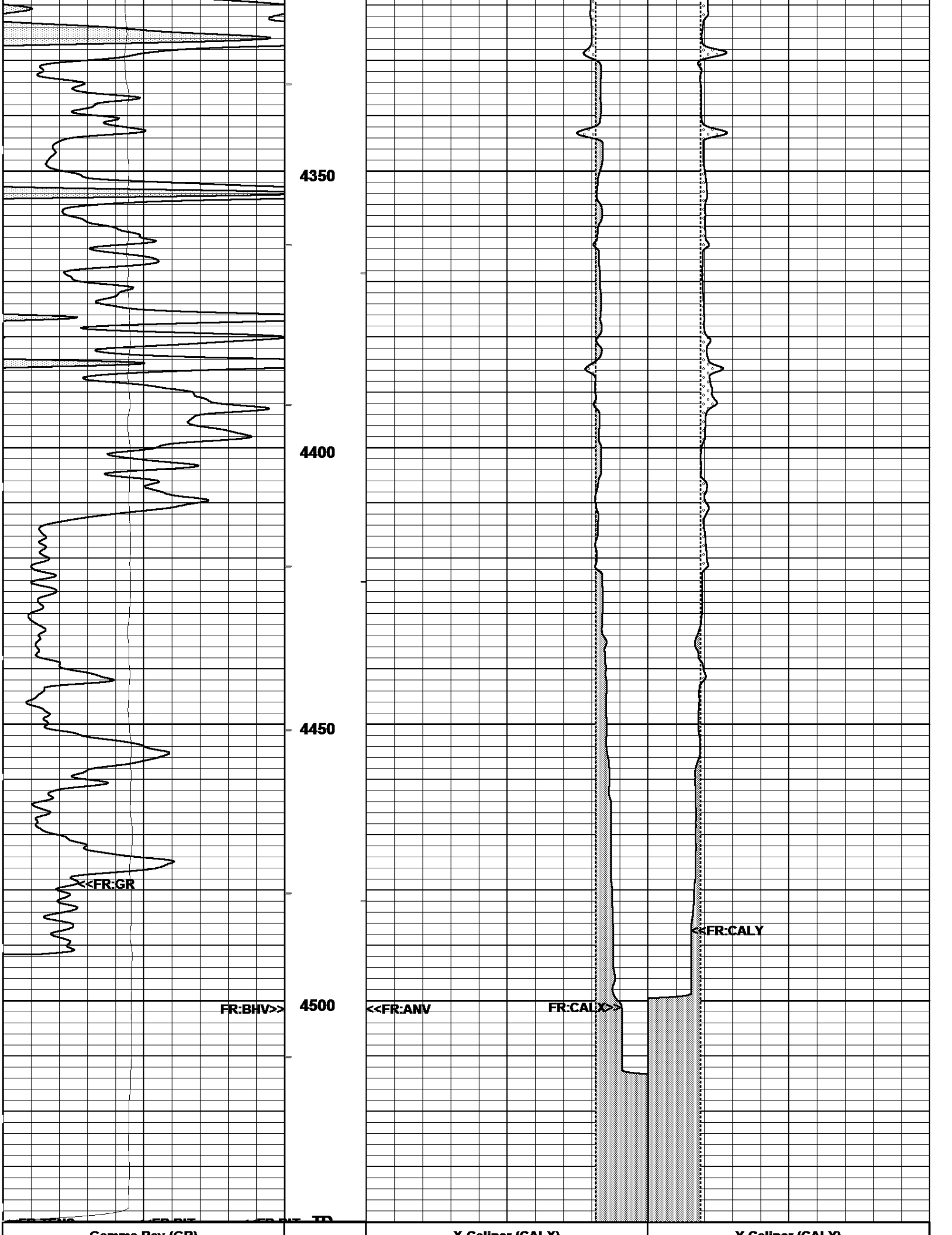












Gamma Ray (GR)		X-Caliper (CALA)		Y-Caliper (CALY)			
0.	API	150.	16.	in	6. 6.	in	16.
Tension (TENS)		Bit Size X-CAL (BIT)		Bit Size Y-CAL (BIT)			
0.	Lbs	5000.	16.	Ref in	6. 6.	Ref in	16.
08/07/2015			MAIN PASS (5"/100Ft)			Log UP - (VER 11.19)	
18:28:37 => Start Time						Start Depth=> 4539.90 Feet	

GAMMA RAY CALIBRATION

SERIAL NUM	RG3007
BLANKET NUM	1A

MASTER CALIBRATIONS

	BackGrnd	CalVal: 175.000 API	Gain/Offset	CALIBRATION DATE	CALIBRATION TIME
BASE CALS	31.235 - raw	207.385 - raw	0.993 - gain 0.000 - off	M/D/Y> 8/6/2015	H:M:S> 12:41:47

X CALIPER

SERIAL NUM	RL4102

MASTER CALIBRATIONS

	ZeroVal: 6.000 in	CalVal: 10.000 in	Gain/Offset	CALIBRATION DATE	CALIBRATION TIME
BASE CALS	1969.329 - raw	4042.166 - raw	0.002 - gain 2.200 - off	M/D/Y> 7/8/2015	H:M:S> 14:25:21

Y CALIPER CALIBRATIONS

SERIAL NUM	RN2016

MASTER CALIBRATIONS

	ZeroVal: 6.000 IN	CalVal: 10.000 IN	Gain/Offset	CALIBRATION DATE	CALIBRATION TIME
BASE CALS	850.111 - raw	1578.062 - raw	0.005 - gain 1.329 - off	M/D/Y> 8/6/2015	H:M:S> 13:25:17

Company	K3 OIL & GAS OPERATING COMPANY
Well	EATON #3-18
Field	WILDCAT
County	LANE
State	KANSAS



BOREHOLE
VOLUME
X-Y CALIPER

