

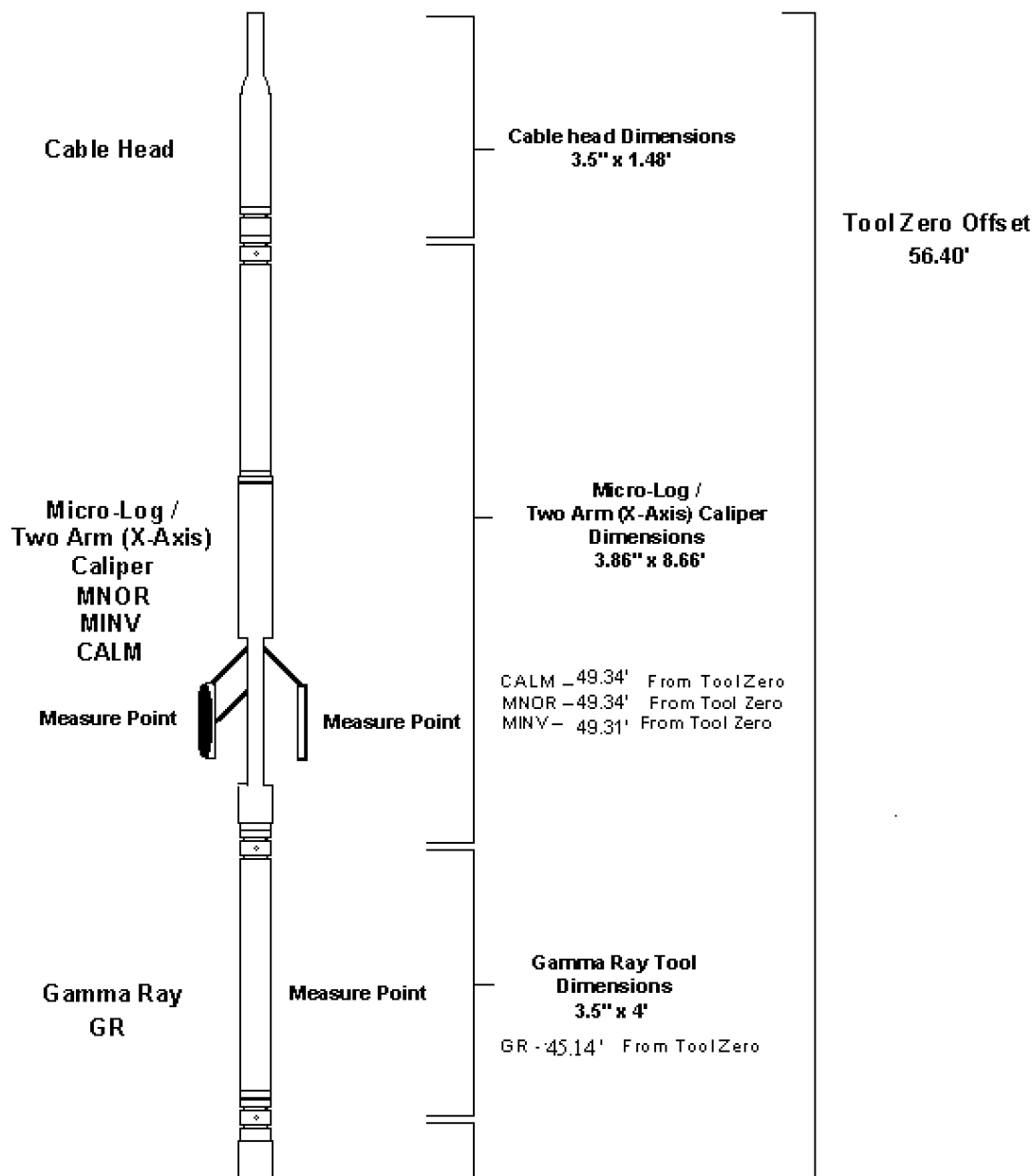
CEMENT VOLUME CALCULATIONS SUMMARY

Tool Type Tool Serial #	LDT-CNT	Caliper Type	X-Y CALIPERS	
	RN2003 / RL4103			
	Borehole Total	Annular Volume with Casing	From Depth (MKb)	To Depth (MKb)
VOLUMES	554.531 Cubic Feet	286.936 Cubic Feet	4000	TD 5610

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	385
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 / 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'

Measure Point

CALY - 37.14' From ToolZero
CNL LS - 36.32' From ToolZero
CNL SS - 35.73' From ToolZero

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

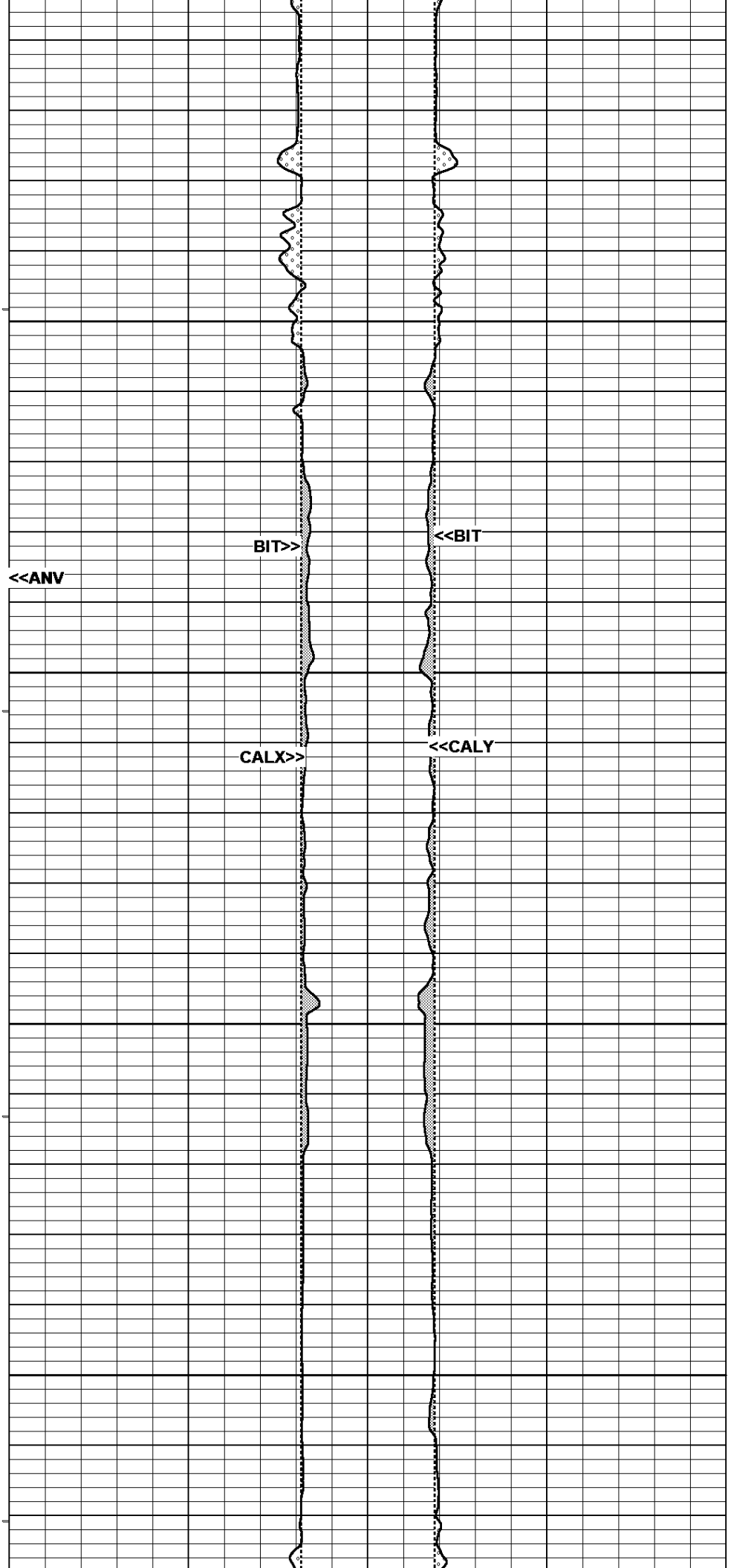
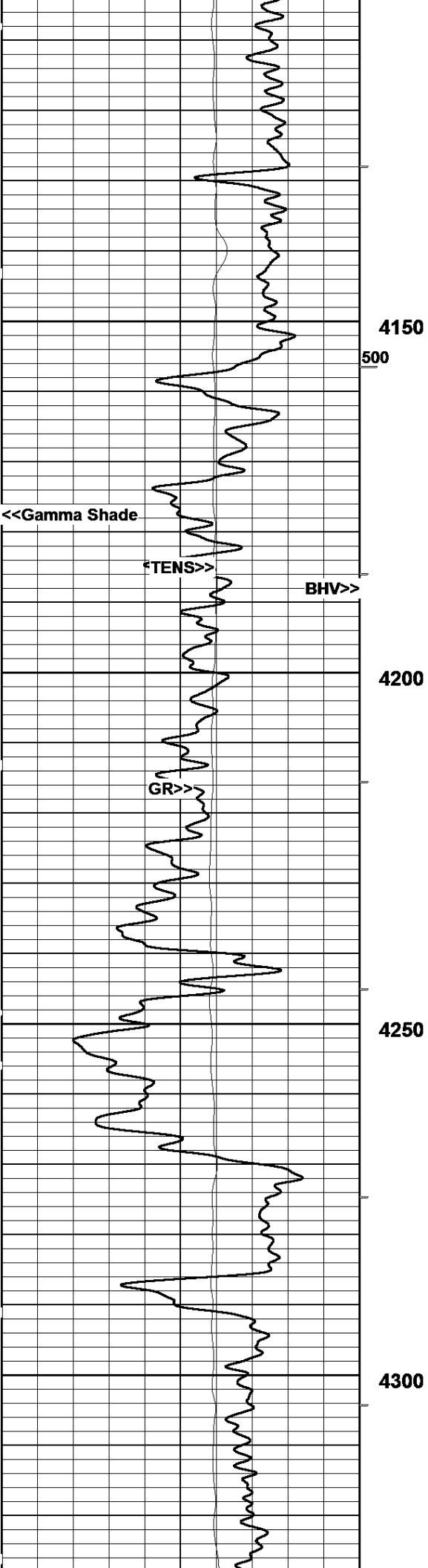
Dual Induction

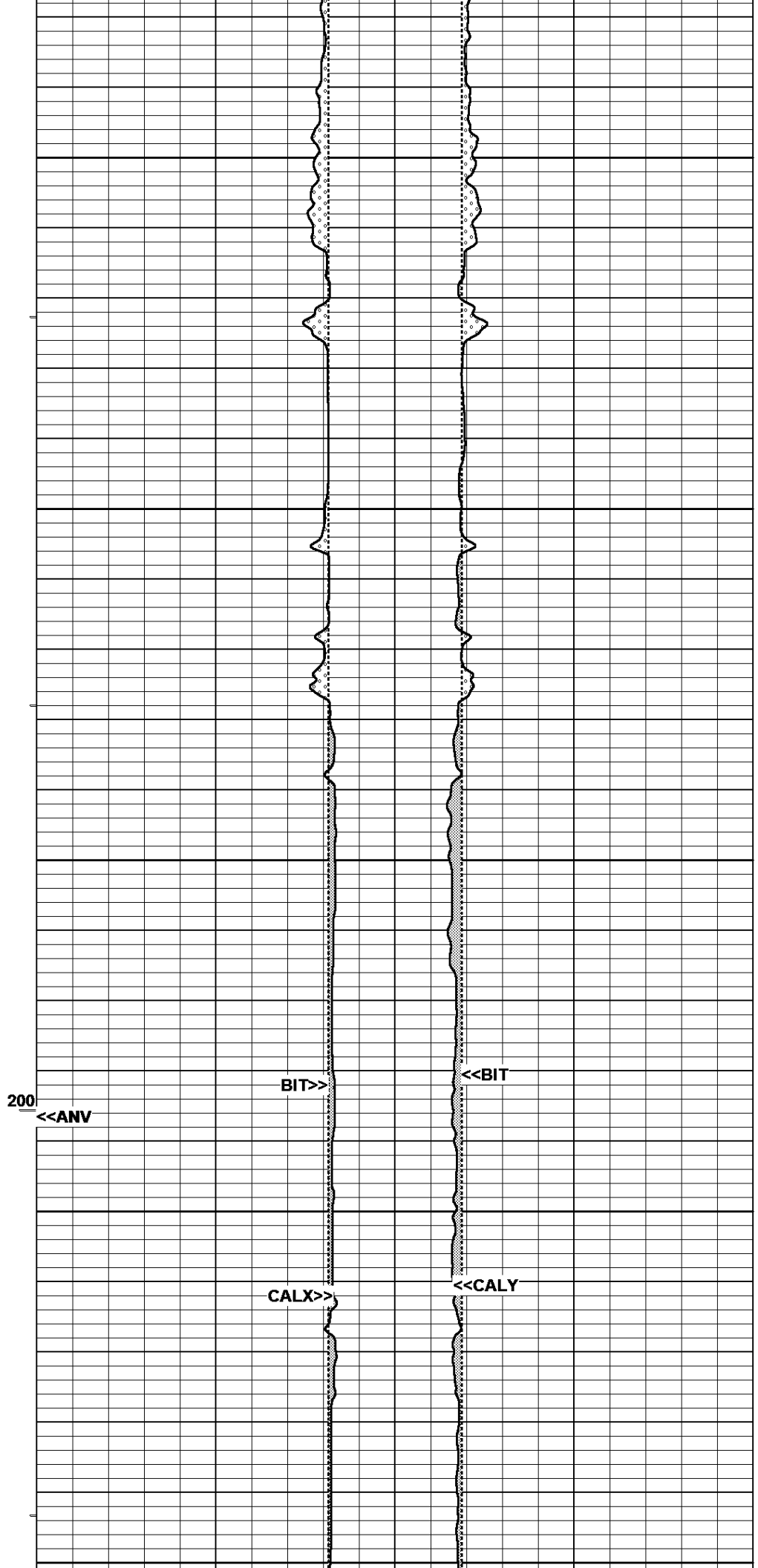
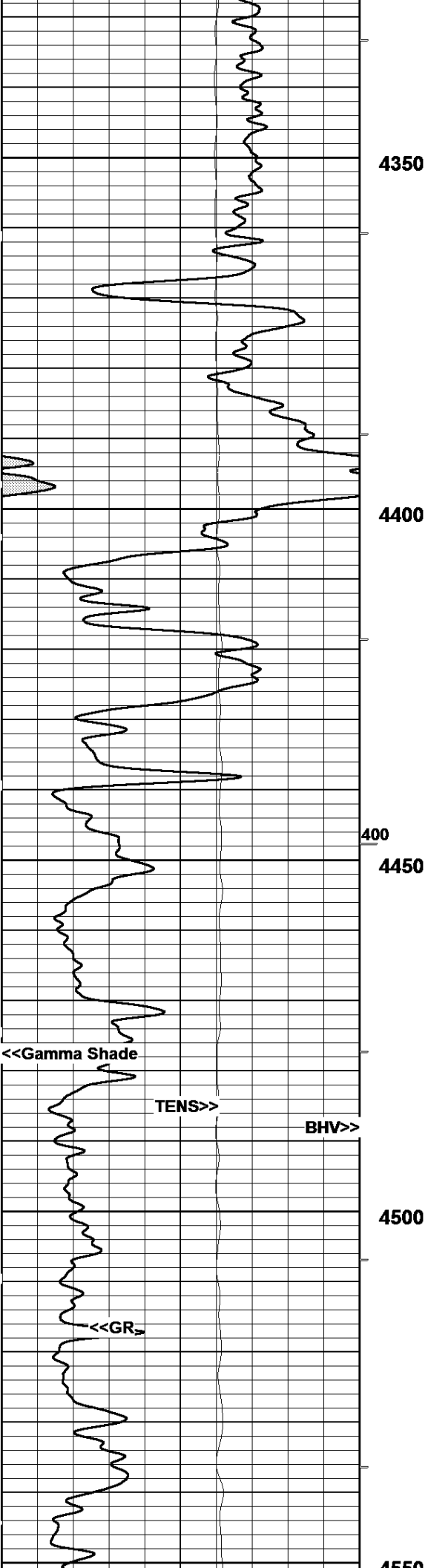
SP
ILD
ILM
LL3

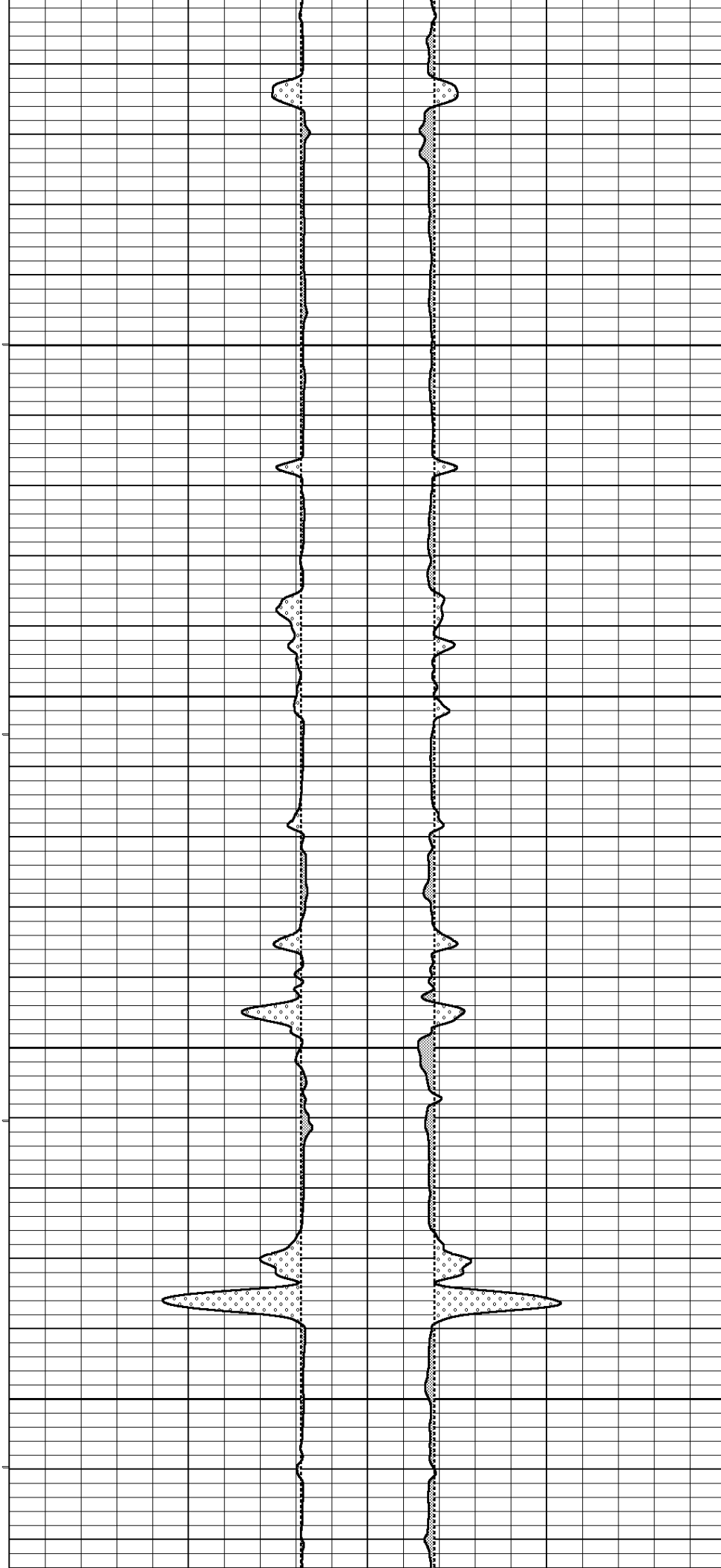
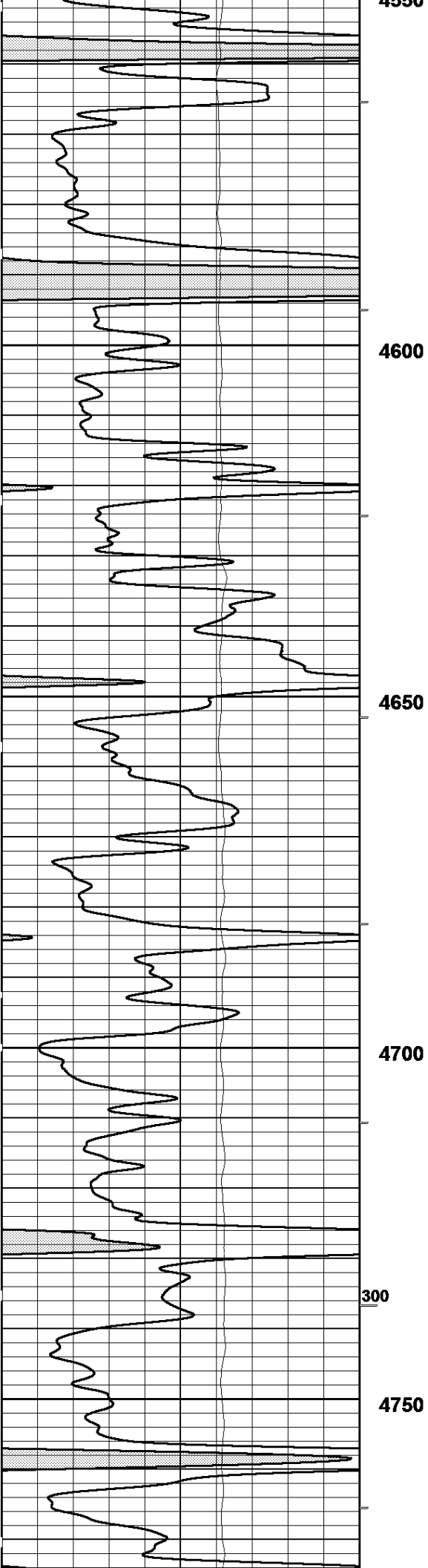
Dual Induction Tool
Dimensions
3.62" x 21'

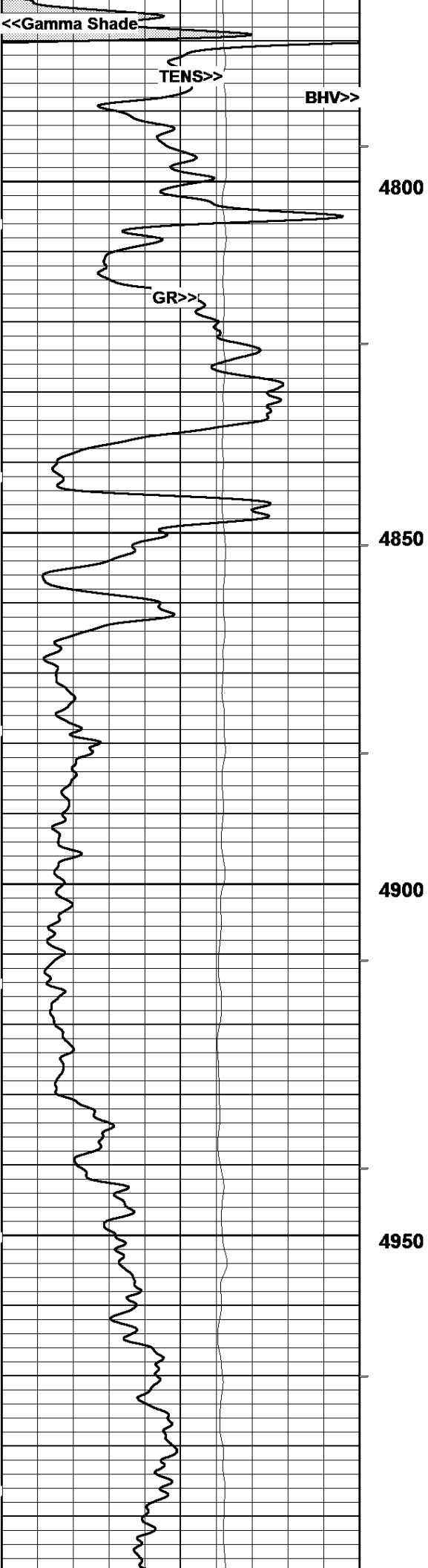
SP - 10.96' From ToolZero

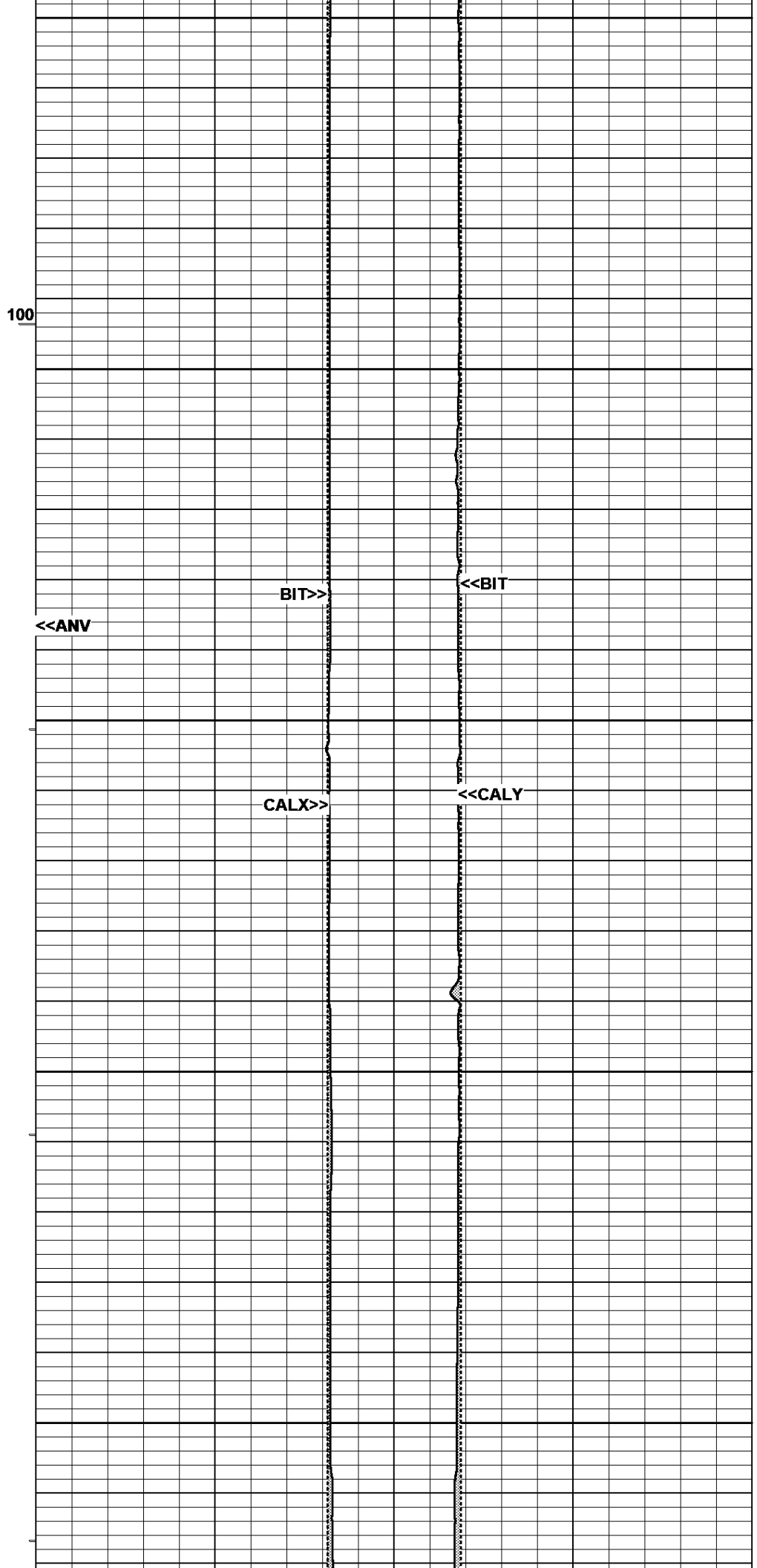
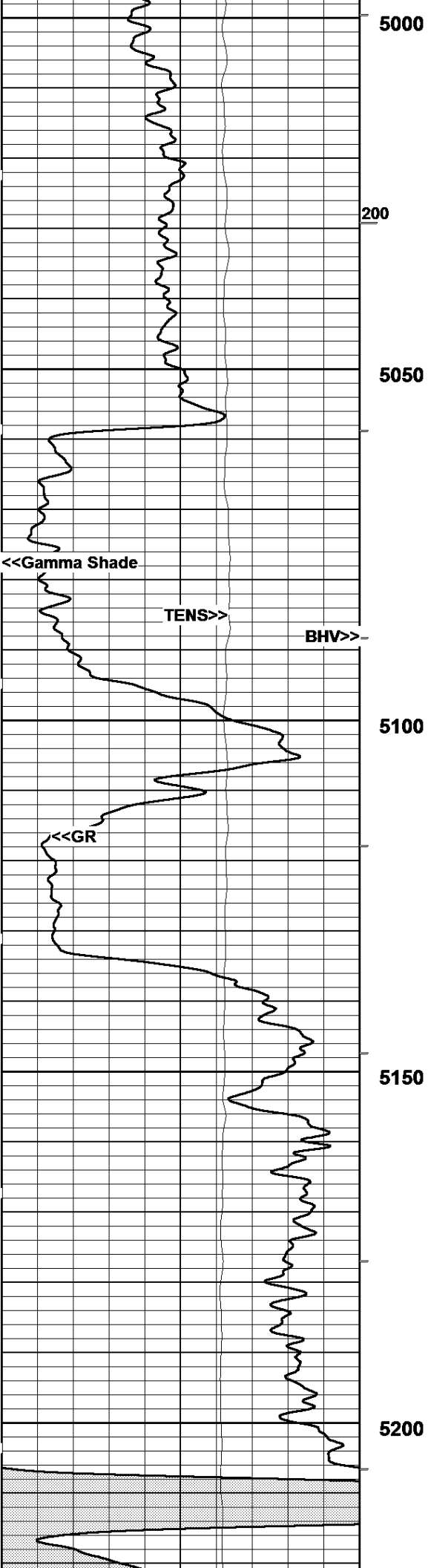
S.P. / CILD

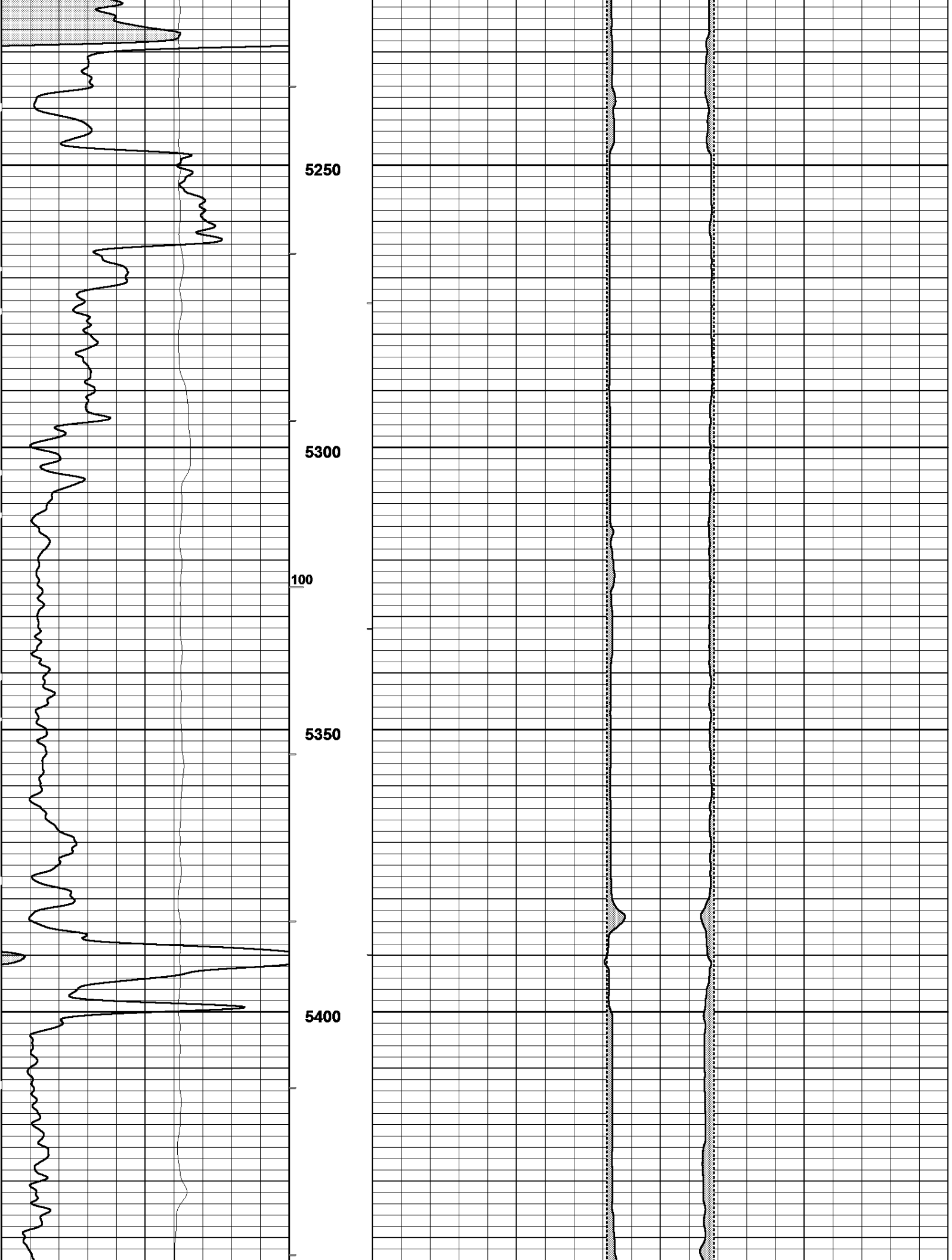


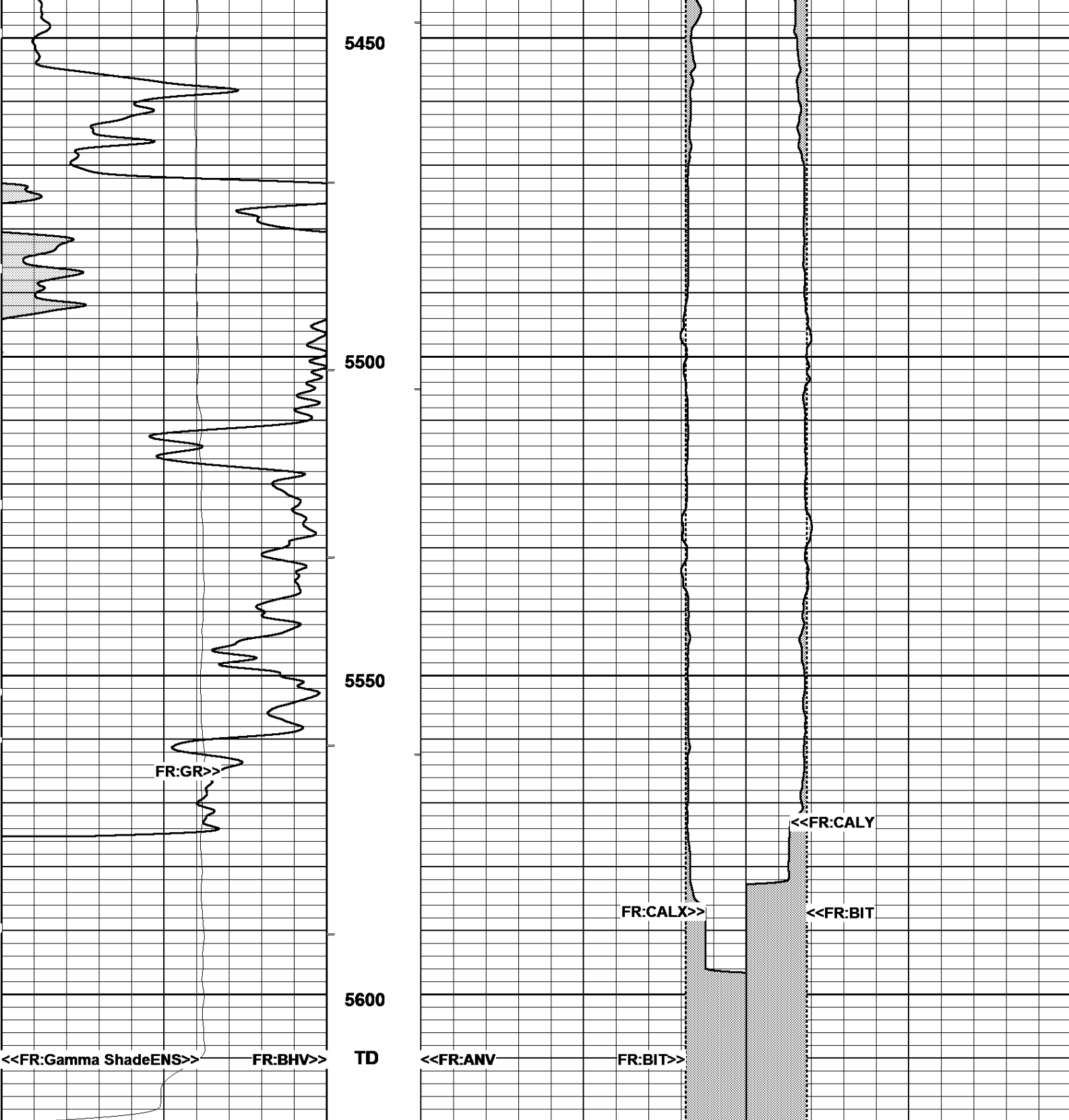












Gamma Ray (GR)		X-Caliper (CALX)		Y-Caliper (CALY)	
0.	150.	16.	6. 6.	6. 6.	16.
API		in		in	
Tension (TENS)		Bit Size X-CAL (BIT)		Bit Size Y-CAL (BIT)	
0.	5000.	16.	6. 6.	6. 6.	16.
Lbs		Ref in		Ref in	

09/26/2013
22:28:39 => Start Time

BOREHOLE VOLUME (5"/100ft)

Log UP - (VER 11.14a)
Start Depth=> 5620.30 Feet

ANY CAL - 1

SERIAL NUM	Serial?
BLANKET NUM	1A

MASTER CALIBRATIONS					
	BackGrnd	CalVal: 100.000 Mknuts	Gain/Offset	CALIBRATION DATE	CALIBRATION TIME
BASE CALS	-0.059 - raw	26.967 - raw	3.700 - gain -16.000 - off	M/D/Y> 11/12/2004	H:M:S> 12:40:27

X CALIPER					
SERIAL NUM		RL4107			
MASTER CALIBRATIONS					
	ZeroVal: 6.000 mm	CalVal: 12.000 mm	Gain/Offset	CALIBRATION DATE	CALIBRATION TIME
BASE CALS	3548.634 - raw	6361.980 - raw	0.002 - gain -1.568 - off	M/D/Y> 11/13/2008	H:M:S> 9:40:6

ANY CAL - 3					
SERIAL NUM	Serial?				
MASTER CALIBRATIONS					
	ZeroVal: 0.000 Mknuts	CalVal: 300.000 Mknuts	Gain/Offset	CALIBRATION DATE	CALIBRATION TIME
BASE CALS	20.400 - raw	59.000 - raw	5.068 - gain -20.400 - off	M/D/Y> 11/12/2004	H:M:S> 12:44:49

Company	VAUGHN GOOD OIL COMPANY
Well	NUSSER #4-16
Field	S.E. HARDTNER
County	BARBER
State	KANSAS



BOREHOLE
VOLUME
X-Y CALIPER



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Ltd.