Company	VAUGHN GOOD OIL COMPANY
Well	NUSSER #2-16
Field	SE HARDNER
County	BARBER
State	KANSAS

RECON

BOREHOLE
VOLUME
X-Y CALIPER

SEC	TWP	RGE	
16	35S	12W	

Location. 400' FNL & 1320' FWL — S1/2 NW NE NW
SURF. SAME — API#. 015-007-23856

Permanent Datum . Ground Level Elev 1410
Log Measured From . Kelly Bushing
Drilling Measured From Kelly Bushing

OTHER SERVICES:
DIL LDT
CNL MEL

ELEVATIONS K.B. 1422
G.L. 1410
D.F. 1420

Date		29-APR-2012					
Run No.		ONE					
TD Driller		5500	ft.			ft.	
TD RECON		5497	ft.			ft.	
Bot Logged Interval		5496	ft.			ft.	
Top Logged Interval		425	ft.			ft.	
Casing Depth Driller		8 5/8	in.	@ 410		in.	@
Casing Depth RECON		8 5/8	in.	@ 425		in.	@
Bit Size		7 7/8	in.			in.	
Drilling Fluid Type		CHEMICAL					
Density	Viscosity	8.8 ppg		50 sec/qt			
Fluid Loss	PH	11.2 cm/30min		10.0 strip			
Source Of Sample		Flowline					
RM @ Measured Temp		1.17	Ohmm	@ 75		Ohmm	@
RMF @ Measured Temp		0.88	Ohmm	@ 75		Ohmm	@
RMC @ Measured Temp		1.47	Ohmm	@ 75		Ohmm	@
RM @ MRT		0.68	Ohmm	@ 135		Ohmm	@
Max Recorded Temp		135	DegF			DegF	
Time Drilling Stopped		29-APR-2012		05:30			
Time Circulation Stopped		29-APR-2012		09:45			
Time Logger On Bottom		29-APR-2012		16:35			
Unit Num	Location	S408		OKLAHOMA CITY, OK			
Recorded By		H. GARCIA					
Witnessed By		MR. M. GOOD					

RIG INFORMATION

Drill Contr/Rig# MENDENHALL DRLG. #3

GENERAL REMARKS SECTION

FIRST RUN IN THE HOLE
CNL AND LDT LOGGED IN A LIMESTONE MATRIX
TOP MARK - 539, BOTTOM MARK - 5442.7
CNL/LDT LOGGED MATRIX: 2.71 g/cc.

CHLORIDES: 5000 mg/l
LCM: 8 lb/bbl

AHV CALCULATED ON 5.5" PROD. CASING

THANK YOU FOR USING RECON PETROTECHNOLOGIES LTD. CREW: J. ROSE

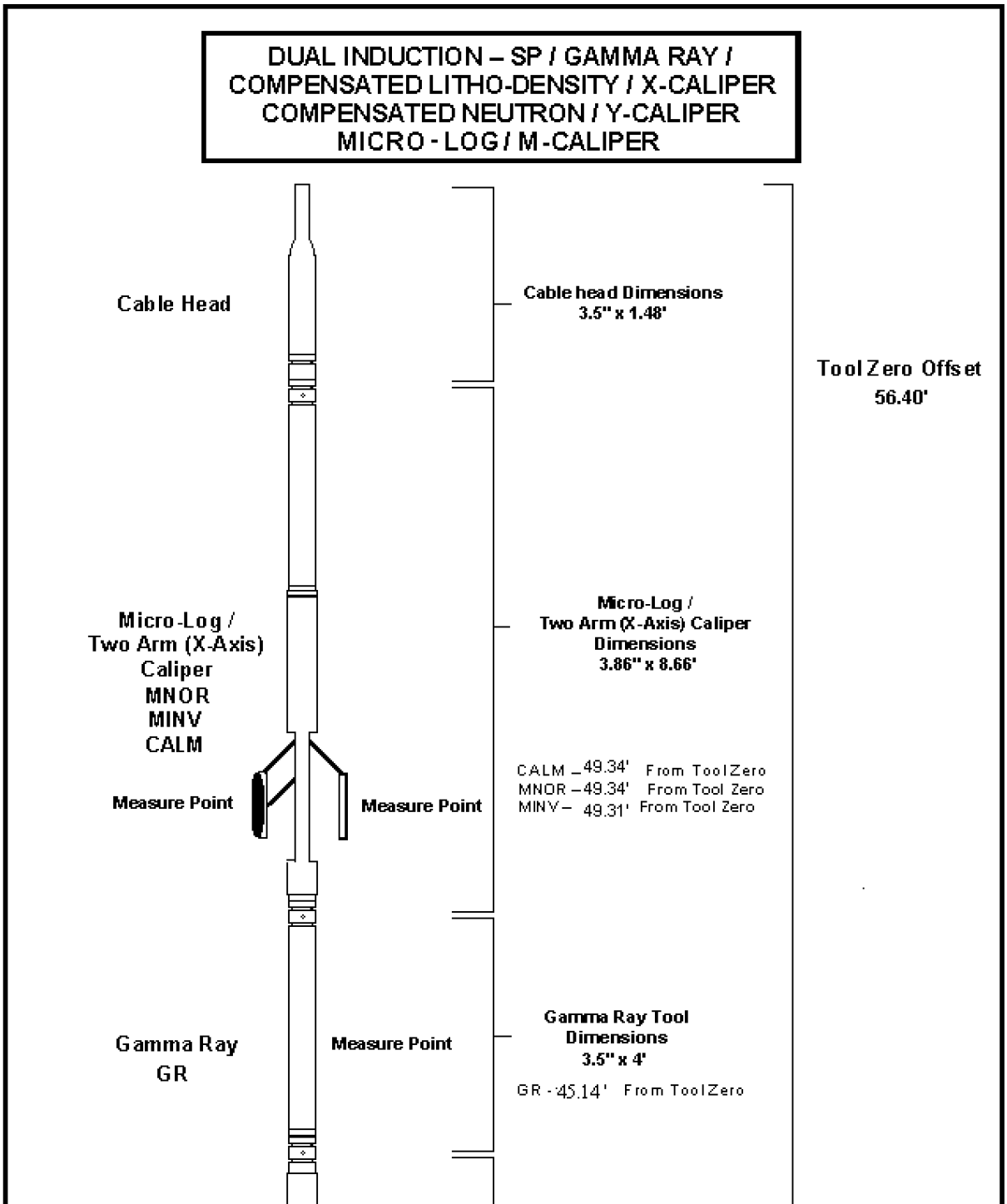
CEMENT VOLUME CALCULATIONS SUMMARY

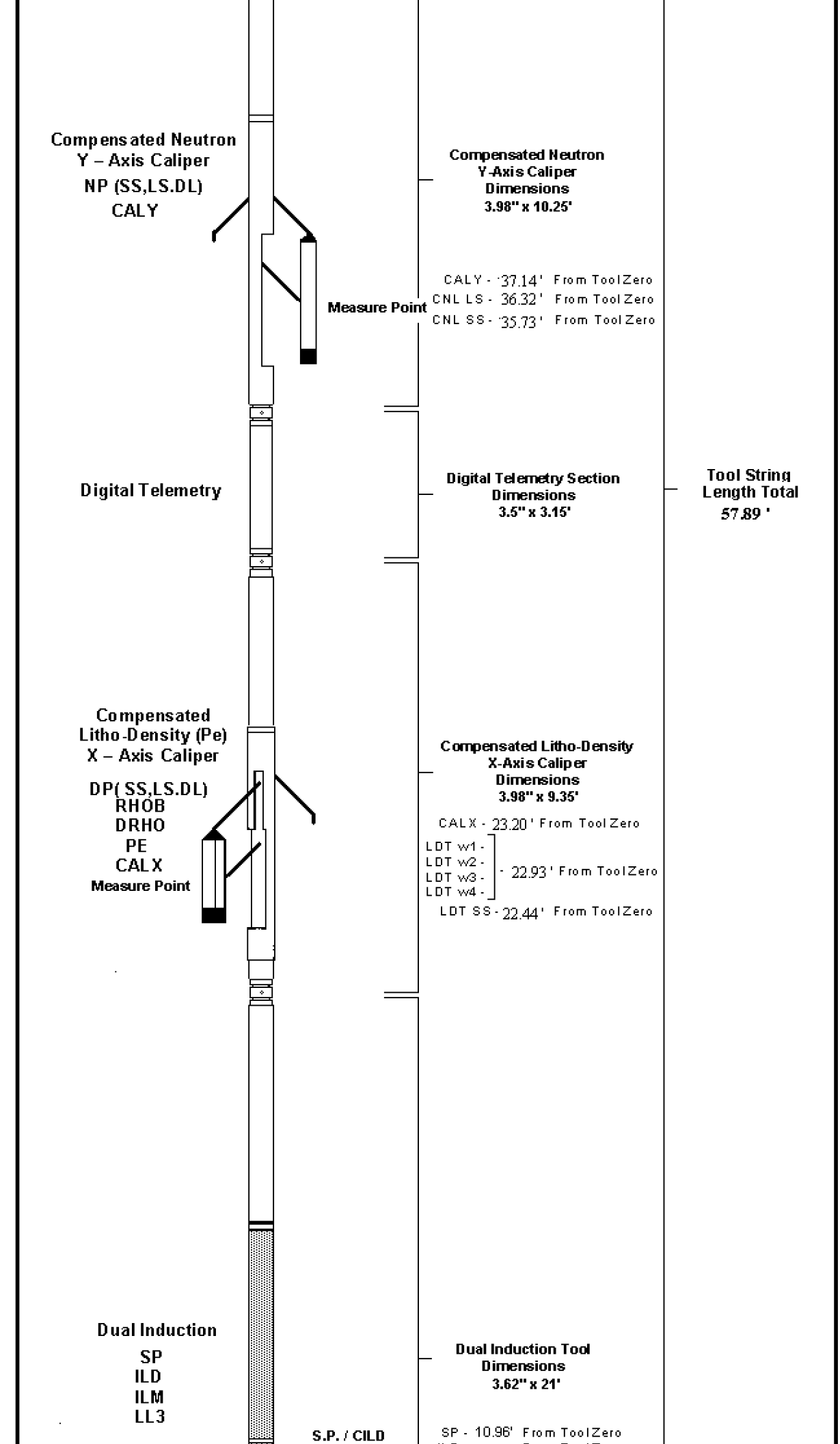
Tool Type	**LDT-CNT**		
Tool Serial #	**RN2008 / RL4107**	**Caliper Type**	**X-Y CALIPERS**

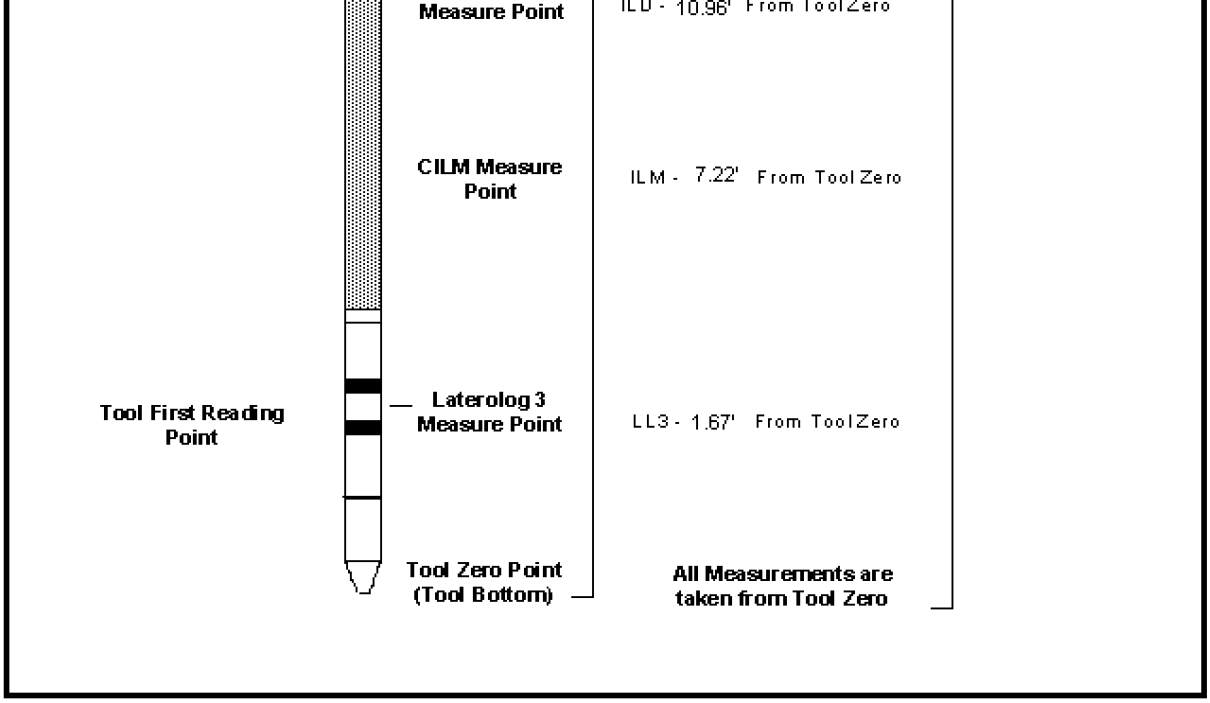
	Borehole Total	Annular Volume with Casing	From Depth (MKb)	To Depth (MKb)
VOLUMES	**516.830 Cubic Feet**	**265.784 Cubic Feet**	**4000**	**TD 5497**

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**	**425**
INTERMEDIATE CASING	**N/A**	**N/A**	**N/A**	**N/A**	**N/A**	**N/A**
PRODUCION CASING	**5 1/2**	**J-55**	**17**	**4.825**	**Surface**	**TD**




Compensated Neutron
Y – Axis Caliper
NP (SS,LS.DL)
CALY
Measure Point
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
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 -
LDT w4 -
22.93' From ToolZero
LDT SS - 22.44' From ToolZero
Dual Induction
SP
ILD
ILM
LL3
Dual Induction Tool
Dimensions
3.62" x 21'
S.P. / CILD
SP - 10.96' From ToolZero

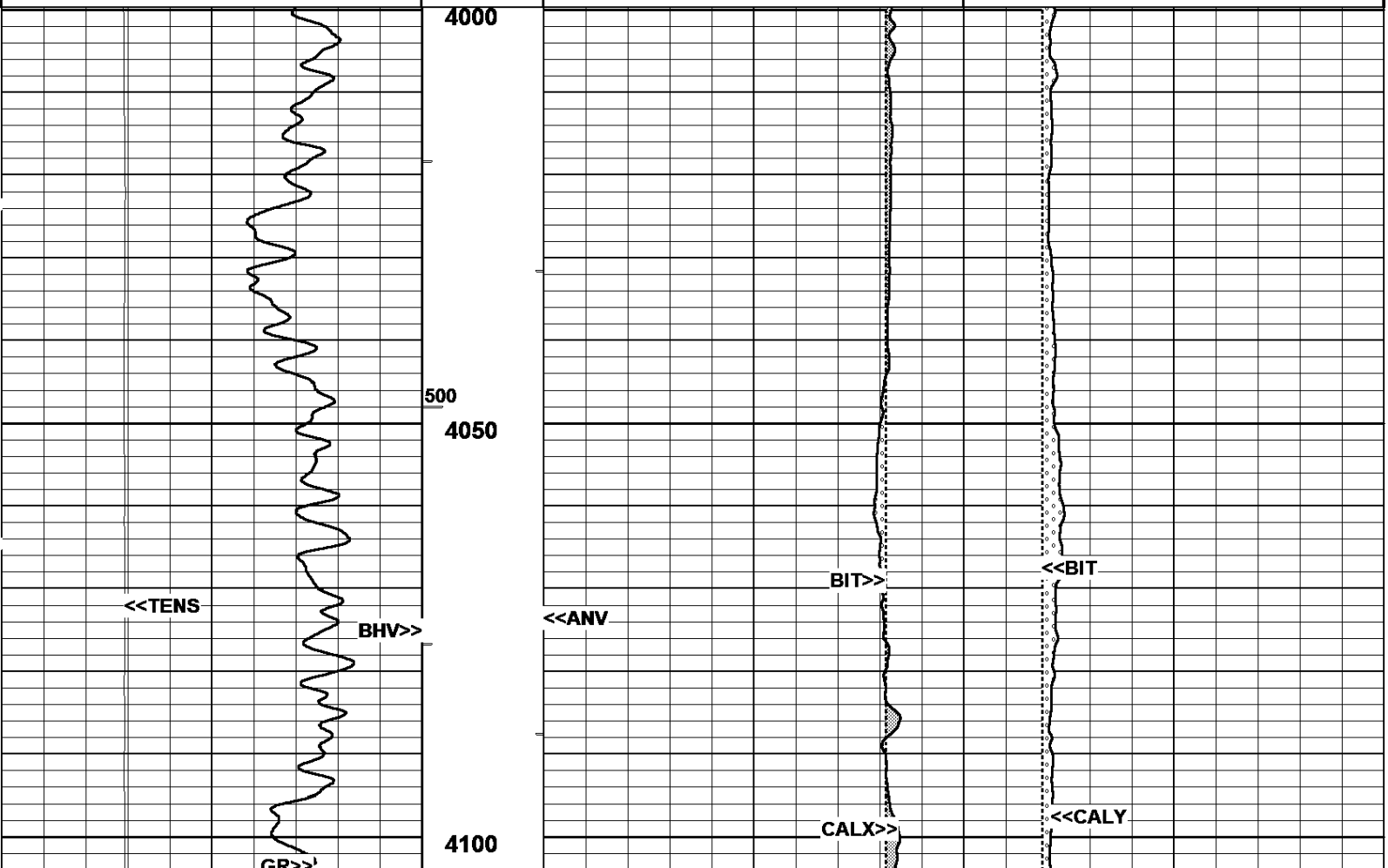


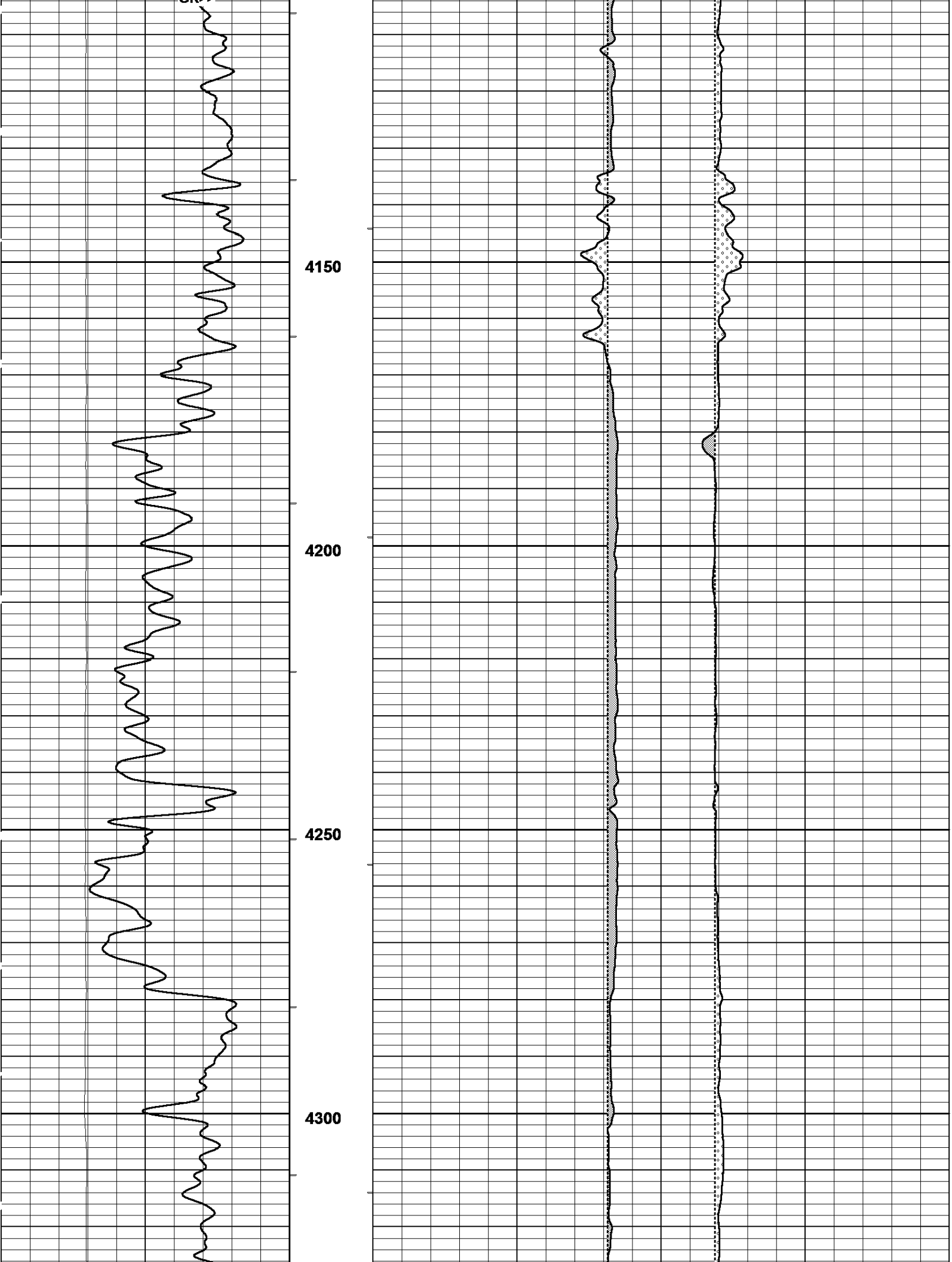
04/29/2012
18:25:12 => End Time

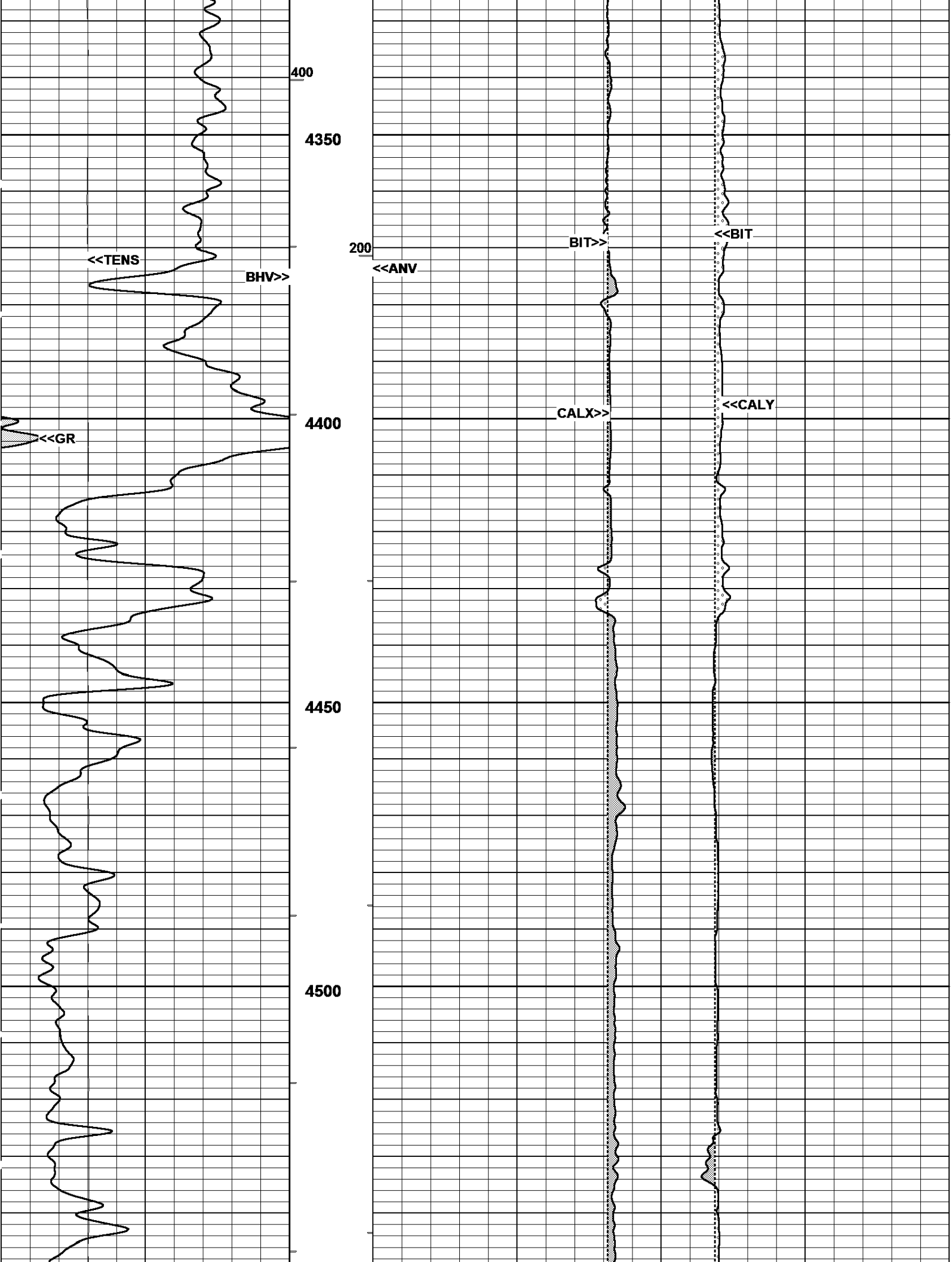
BOREHOLE VOLUME (5"/100Ft)

Log UP - (VER 11.08)
End Depth=> 3999.90 Feet

Tension (TENS)		Bit Size X-CAL (BIT)		Bit Size Y-CAL (BIT)	
0.	Lbs 10000.	16.	Ref in 6.	6.	Ref in 16.
Gamma Ray (GR)		**X-Caliper (CALX)**		**Y-Caliper (CALY)**	
0.	API 150.	16.	in 6.	6.	in 16.




4150
4200
4250
4300


400
4350
200
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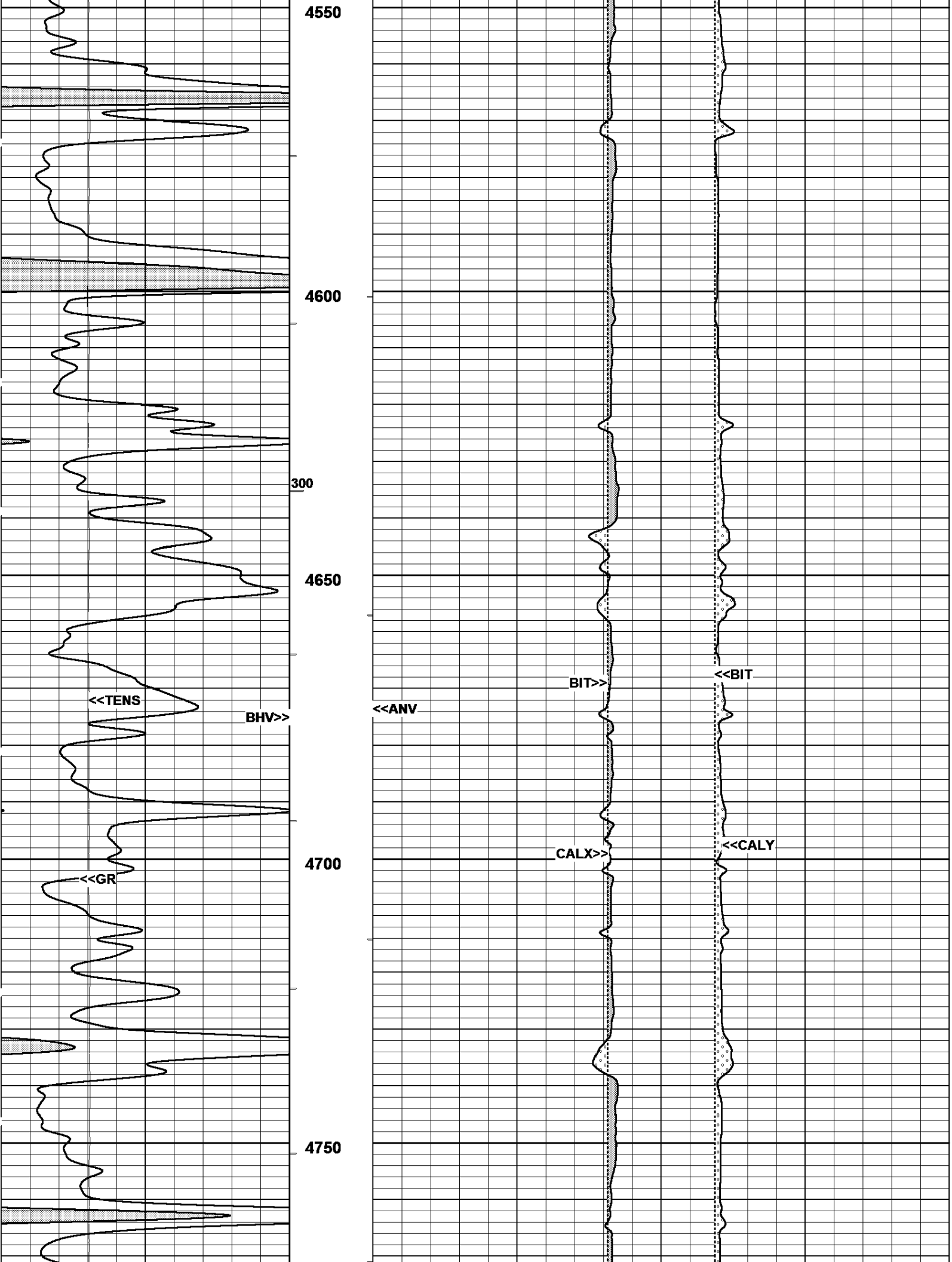
BHV>>
<<ANV
BIT>>
<<BIT
4400
<<GR
CALX>>
<<CALY
4450
4500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4600
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4650
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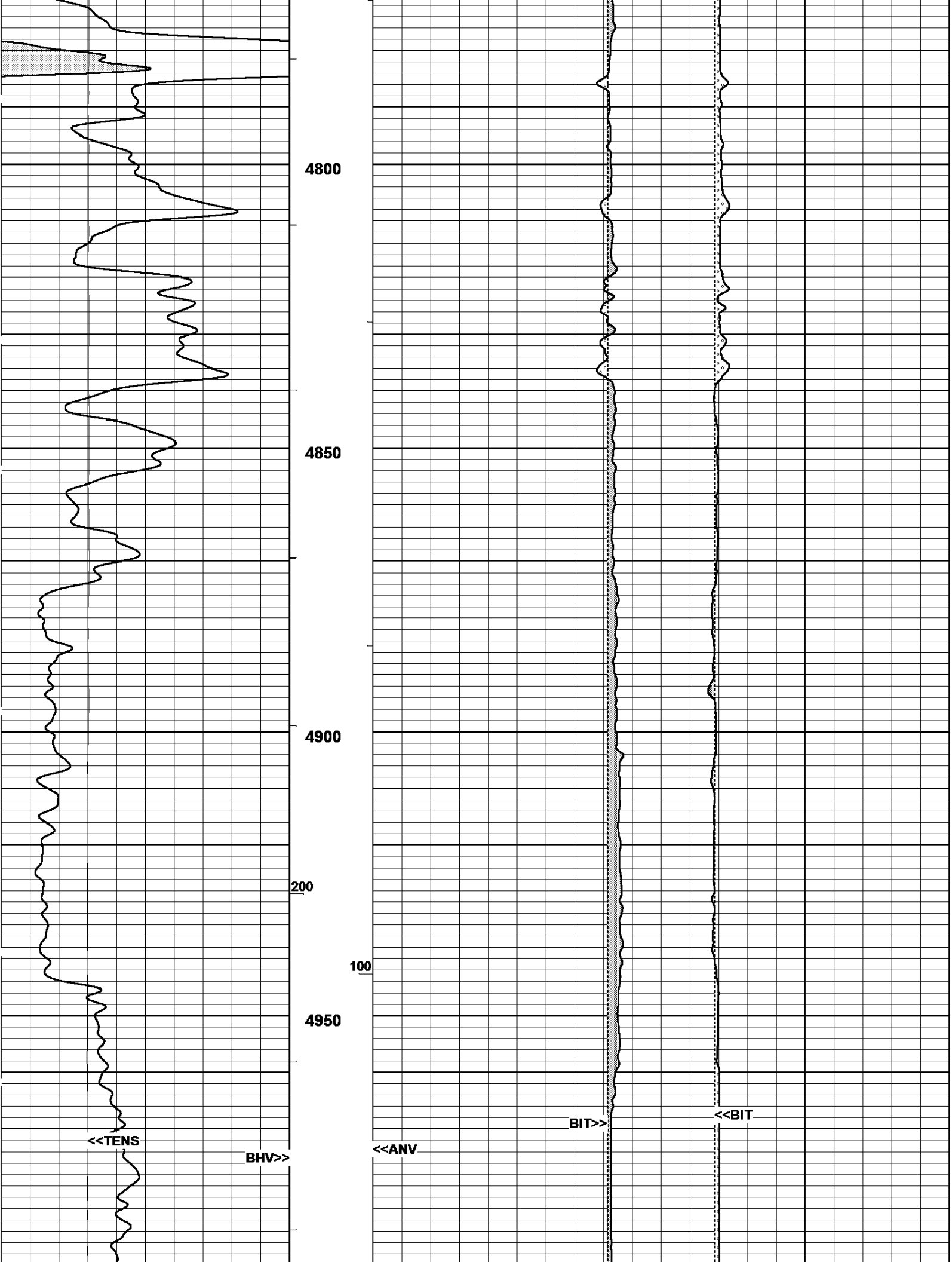
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4850
4900
200
100
4950
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BHV>>
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BIT>>
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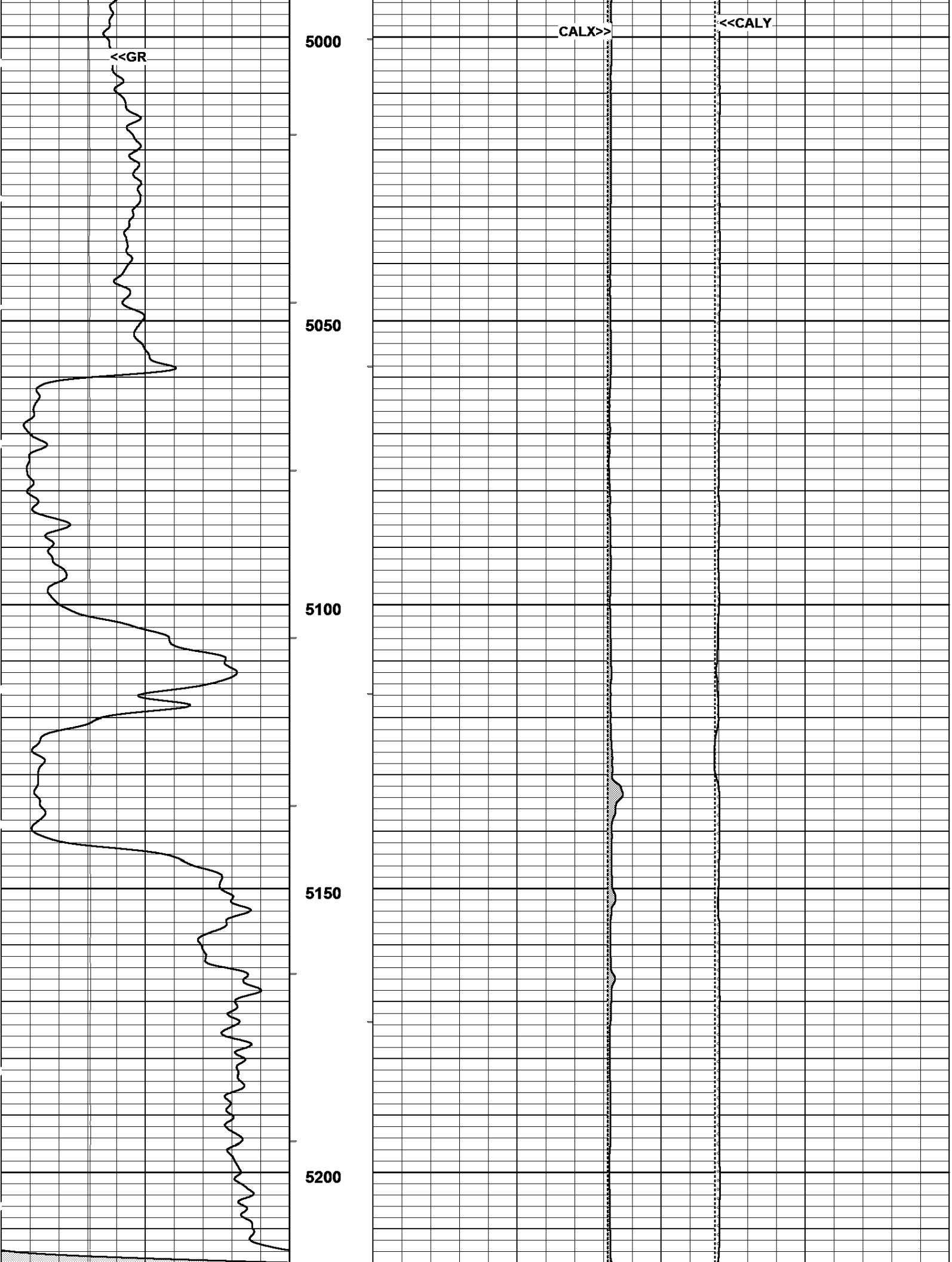
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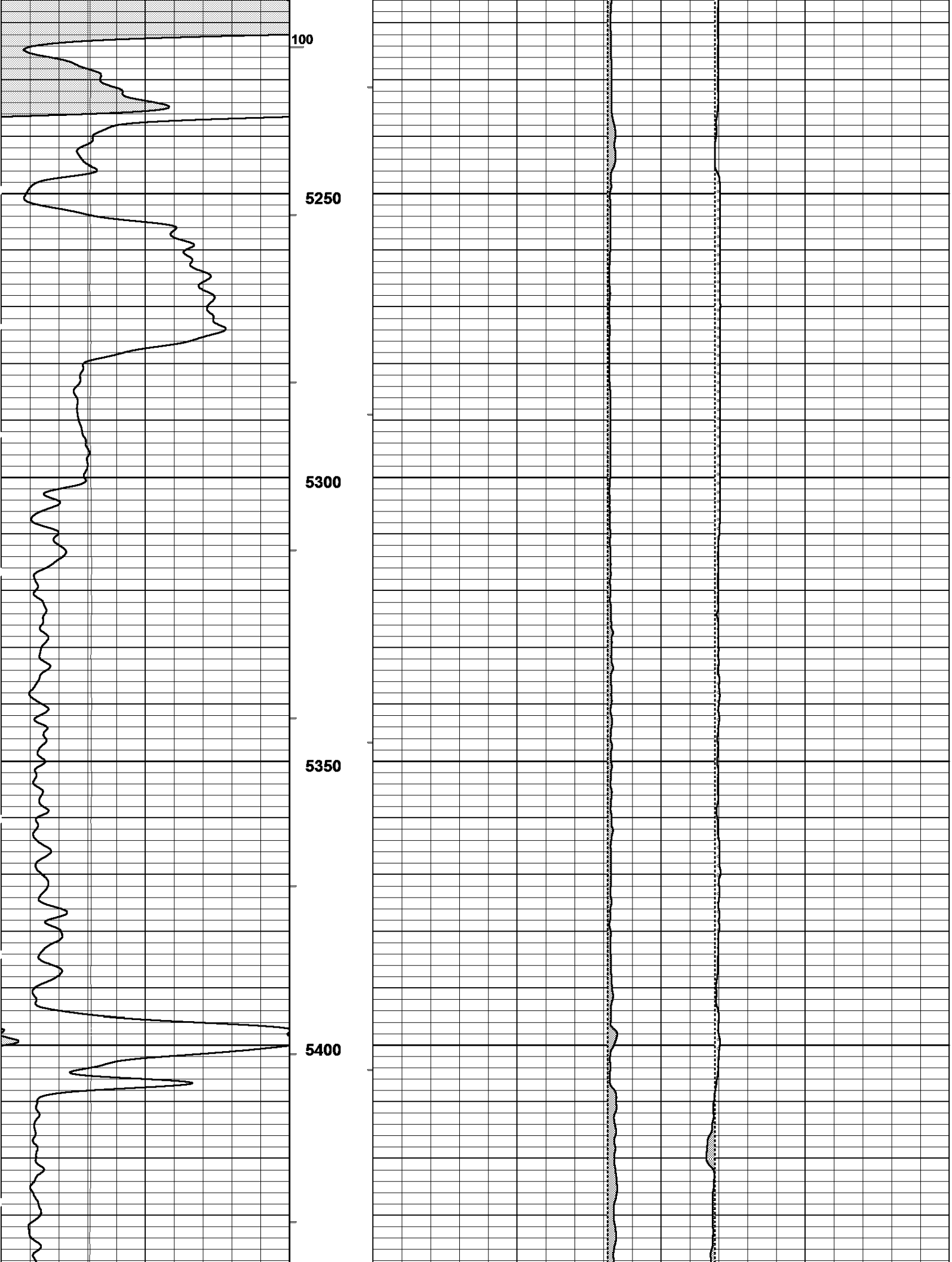
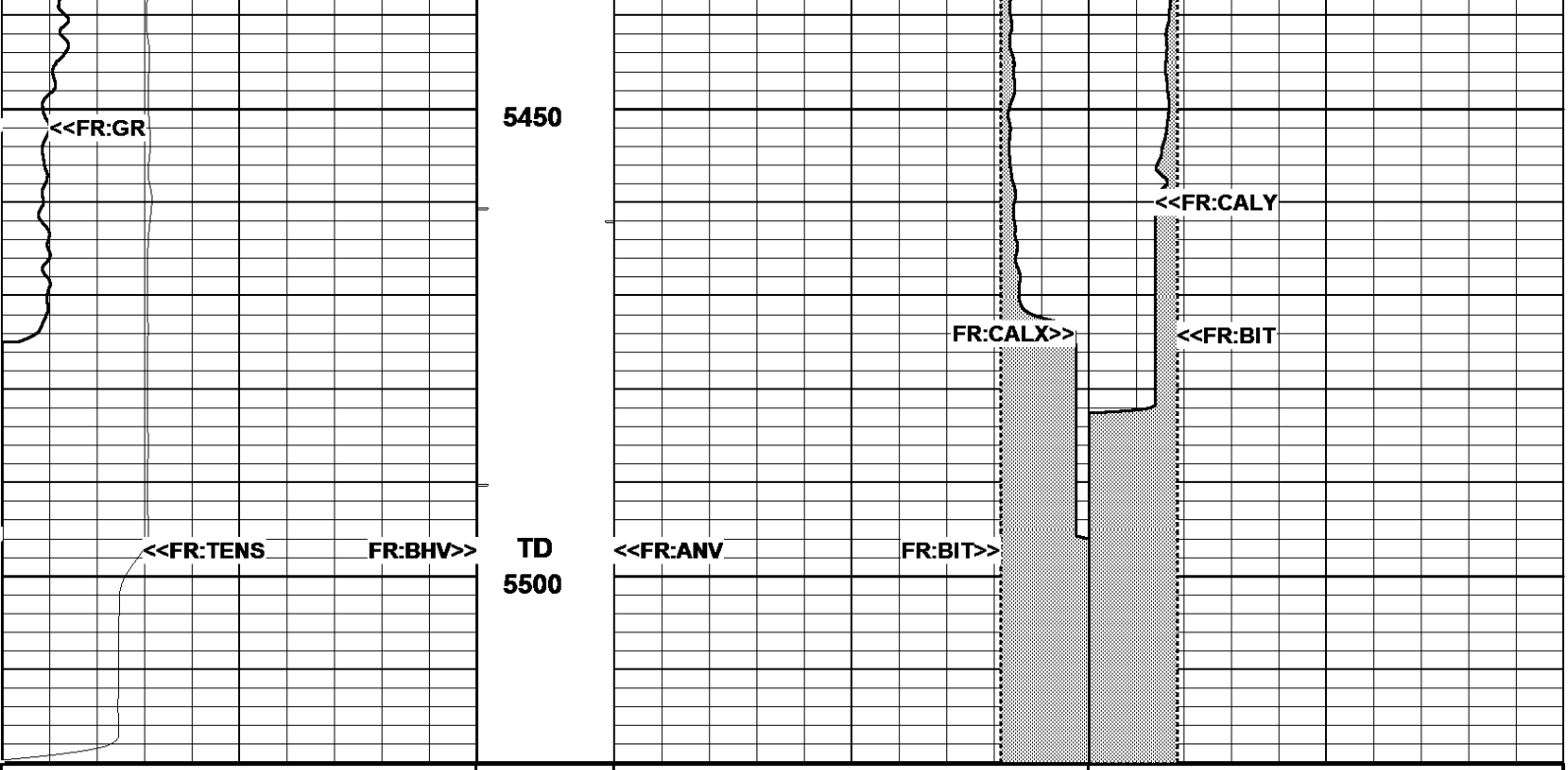
CALX>>
<<CALY
5000
5050
5100
5150
5200


100
5250
5300
5350
5400



Gamma Ray (GR)			X-Caliper (CALX)			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	10000.	16.	Ref in	6.	6.	Ref in	16.

04/29/2012
16:52:36 => Start Time

BOREHOLE VOLUME (5"/100Ft)

Log UP - (VER 11.08)
Start Depth=> 5520.00 Feet

GAMMA RAY CALIBRATION

SERIAL NUM	RG3010
BLANKET NUM	1A

MASTER CALIBRATIONS

	BackGrnd	CalVal: 122.000 API	Gain/Offset	CALIBRATION DATE	CALIBRATION TIME
BASE CALS	112.627 - raw	699.200 - raw	0.208 - gain 0.000 - off	M/D/Y> 2/1/2012	H:M:S> 8:47:22

X CALIPER

SERIAL NUM	RL4107

MASTER CALIBRATIONS

	ZeroVal: 6.000 mm	CalVal: 10.000 mm	Gain/Offset	CALIBRATION DATE	CALIBRATION TIME
BASE CALS	4480.798 - raw	6368.637 - raw	0.002 - gain -3.494 - off	M/D/Y> 9/21/2011	H:M:S> 11:54:23

Y CALIPER CALIBRATIONS

SERIAL NUM	RN2002

MASTER CALIBRATIONS					
	ZeroVal: 6.000 mm	CalVal: 12.000 mm	Gain/Offset	CALIBRATION DATE	CALIBRATION TIME
BASE CALS	1142.560 - raw	2310.576 - raw	0.005 - gain 0.131 - off	M/D/Y> 7/11/2011	H:M:S> 16:15:34

Company	VAUGHN GOOD OIL COMPANY
Well	NUSSER #2-16
Field	SE HARDNER
County	BARBER
State	KANSAS

RECON

BOREHOLE
VOLUME
X-Y CALIPER

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