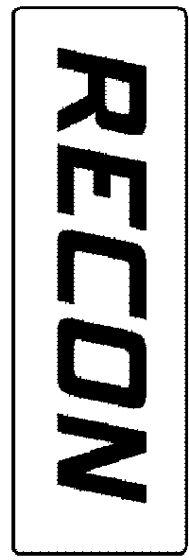


Company **RED OAK ENERGY, INC.**
 Well **BERNING #1-16**
 Field **WILDCAT**
 County **WICHITA**
 State **KANSAS**



**COMPENSATED NEUTRON
 LITHOLOGY DENSITY
 GAMMA RAY X-Y CALLIPER
 MICROLOG**

SEC	TWP	RGE	OTHER SERVICES:	
16	20S	38W	DIL	
Location: 1997' Fsl & 1822' FEL		SW NE NW SE		
SURE: SAME		AP#: 15-203-20288-00-00		
Permanent Datum	Ground Level	Elev	ELEVATIONS	
Log Measured From	Kelly Bushing	3428	K.B.	3434.6
Drilling Measured From	Kelly Bushing		G.L.	3418
			D.F.	3432.6

Date	22-AUG-2014			
Run No.	ONE			
TD Driller	5050	ft		ft
TD RECON	5055	ft		ft
Bot Logged Interval	5054	ft		ft
Top Logged Interval	2600	ft		ft
Casing Depth Driller	8 5/8	in.	@ 367	in.
Casing Depth RECON	8 5/8	in.	@ 351	in.
Bit Size	7 7/8	in.		in.
Drilling Fluid Type	Chemical			
Density	9.2	lb/gal	54	sec/qt
Fluid Loss	8.8	ml/30min	9.0	strtp
PH	Flowline			
Source Of Sample	Flowline			
RM @ Measured Temp	0.457	Ohmm	@ 75	Ohmm @
RMF @ Measured Temp	0.343	Ohmm	@ 75	Ohmm @
RMC @ Measured Temp	0.571	Ohmm	@ 75	Ohmm @
RM @ MRT	0.279	Ohmm	@ 127	Ohmm @
Max Recorded Temp	127	DegF		DegF
Time Drilling Stopped	22-NOV-2014	17:30		
Time Circulation Stopped	22-NOV-2014	19:15		
Time Logger On Bottom	22-NOV-2014	23:35		
Unit Num	S409	Location	OKLAHOMA CITY, OK	
Recorded By	H. GARCIA			
Witnessed By	MR. P. DEENIHAN			

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.

RIG INFORMATION

Drill Contr/Rig#	WILDCAT DRLG. #1
------------------	------------------

GENERAL REMARKS SECTION

FIRST RUN IN THE HOLE
 CNL AND LDT LOGGED IN A LIMESTONE MATRIX
 TOP MARK - 352, BOTTOM MARK - 4956.8
 CNL/LDT LOGGED MATRIX: 2.71 g/cc.

CHLORIDES: 5300 ppm
 LCM: 2 lbs/bbl

AHV CALCULATED ON 5.5" PROD. CASING

THANK YOU FOR USING RECON PETROTECHNOLOGIES LTD.

CREW: M. CALLENTINE, B. THOMAS

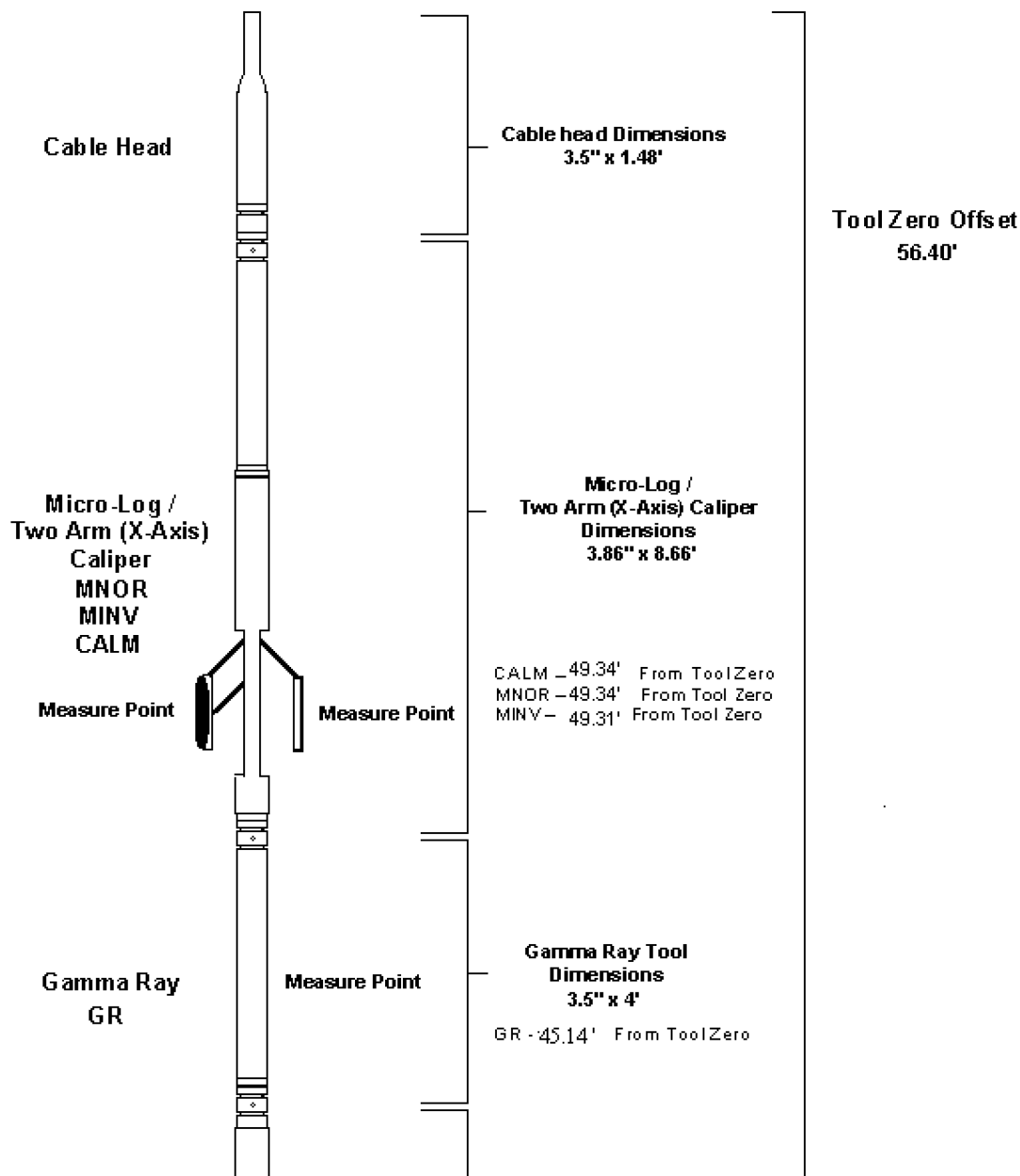
CEMENT VOLUME CALCULATIONS SUMMARY

Tool Type	LDT-CNT	Caliper Type		
Tool Serial #	RN2004 / RL4101	X-Y CALIPERS		
	Borehole Total	Annular Volume with Casing	From Depth (MKb)	To Depth (MKb)
VOLUMES	1908.594 Cubic Feet	1128.778 Cubic Feet	SCG 351	TD 5055

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	351
INTERMEDIATE CASING	N/A	N/A	N/A	N/A	Surface	N/A
PRODUCION 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

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

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

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

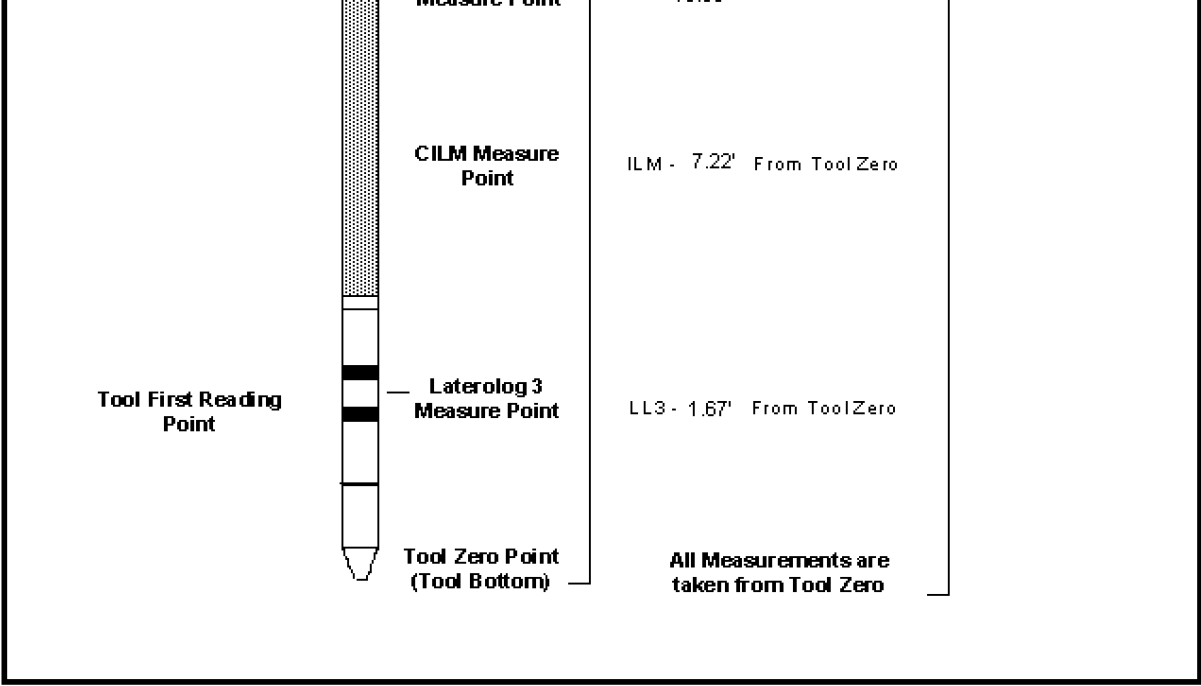
Dual Induction

SP
ILD
ILM
LL3

Dual Induction Tool
Dimensions
3.62" x 21'

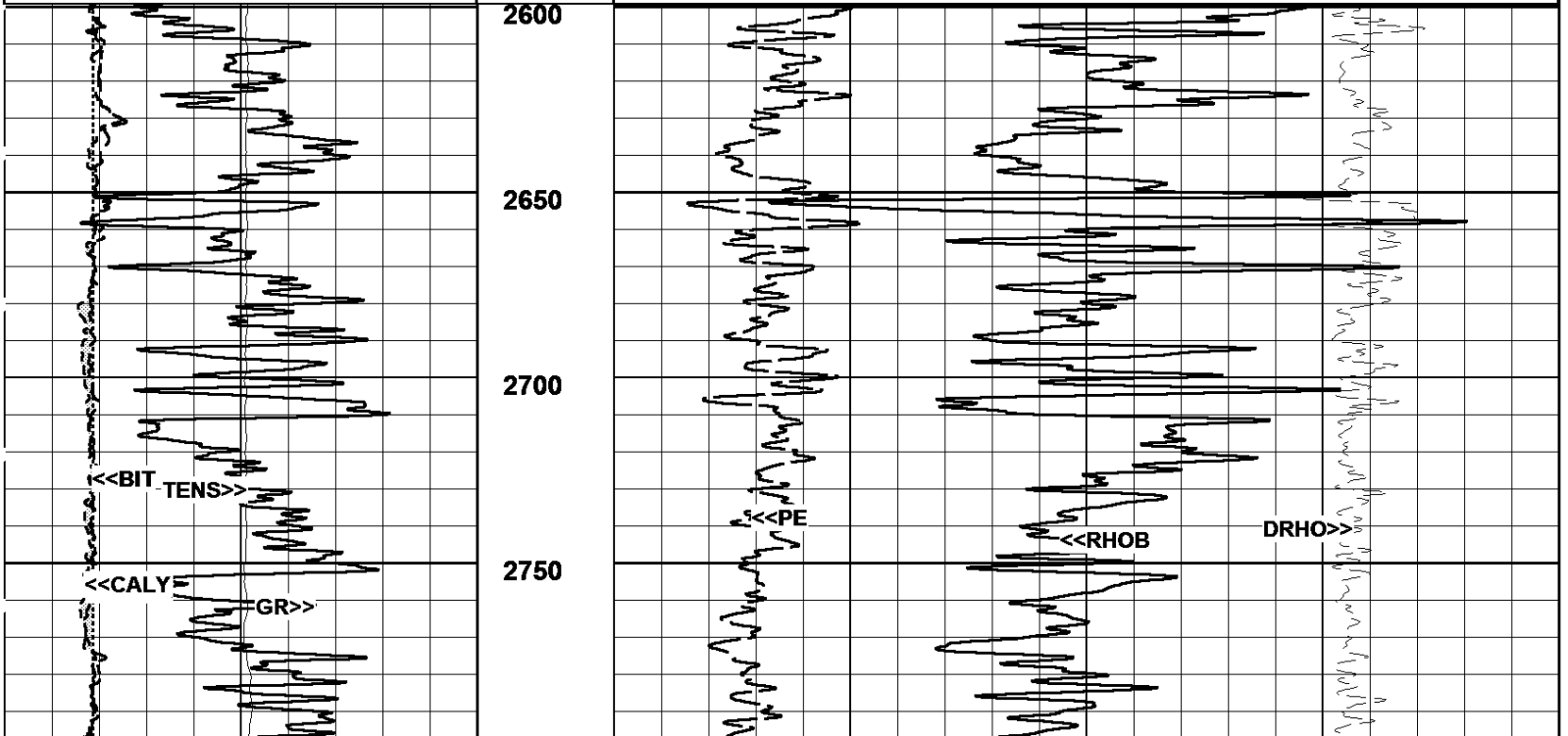
S.P. / CILD
Measure Point

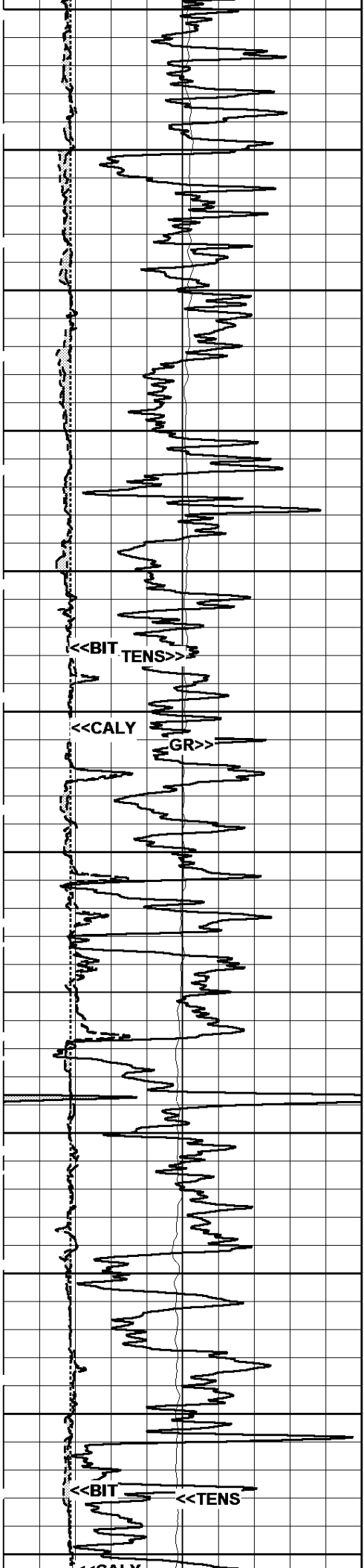
SP - 10.96' From ToolZero
ILD - 10.96' From ToolZero



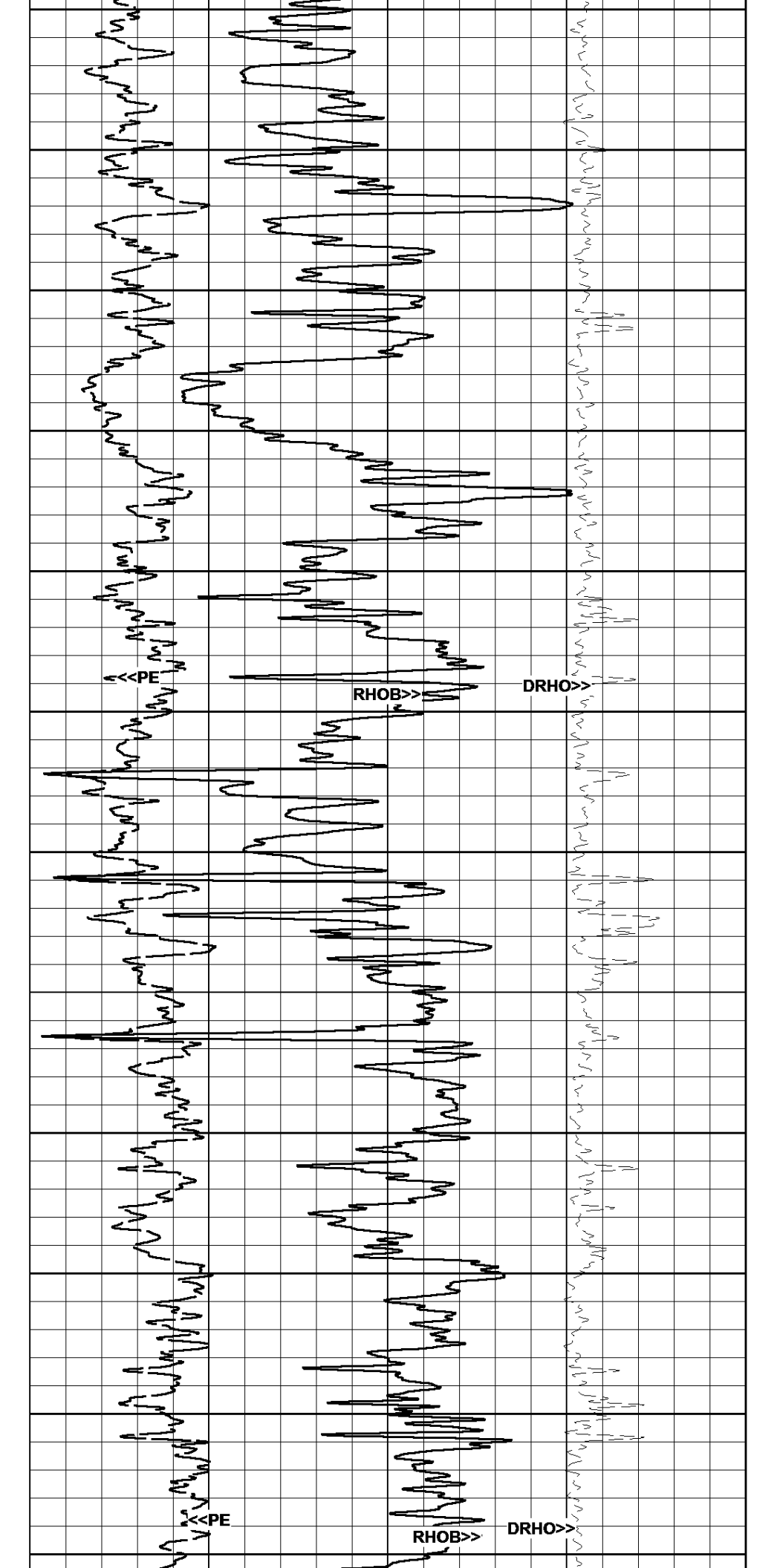
11/23/2014 **MAIN PASS - RHOB (2"/100Ft)** Log UP - (VER 11.19)
 13:57:00 => End Time End Depth=> 2599.75 Feet

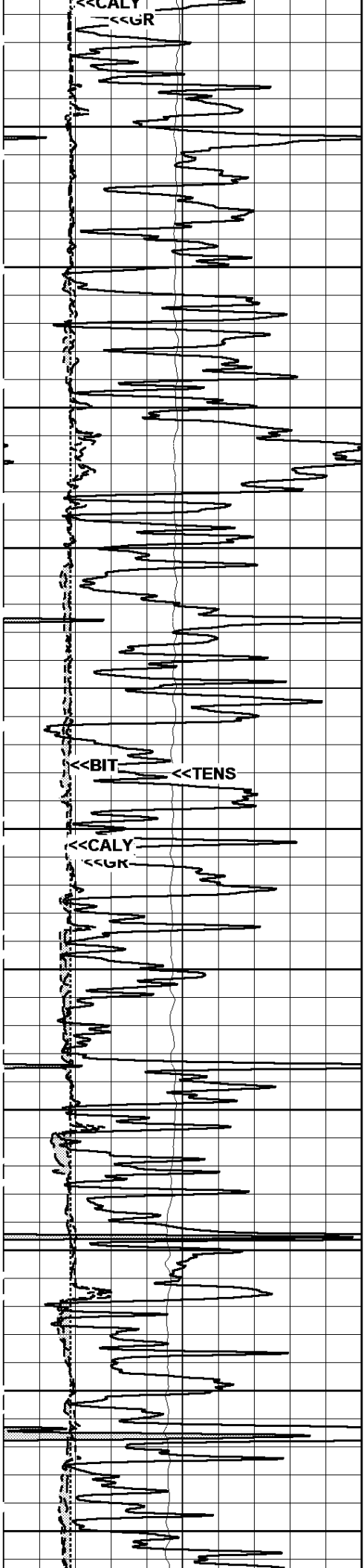
Bit Size (BIT)				Photo Electric (PE)		Delta RHO (DRHO)	
6.	Ref in	16.		0.	Barns/Elect	10.	-0.5 g/cc
Tension (TENS)				Bulk Density (RHOB)			
5000.	Lbs	0.		2.	g/cc		3.
Y-Caliper (CALY)							
6.	in	16.					
X-Caliper (CALX)							
6.	in	16.					
Gamma Ray (GR)							
0.	API	150.					



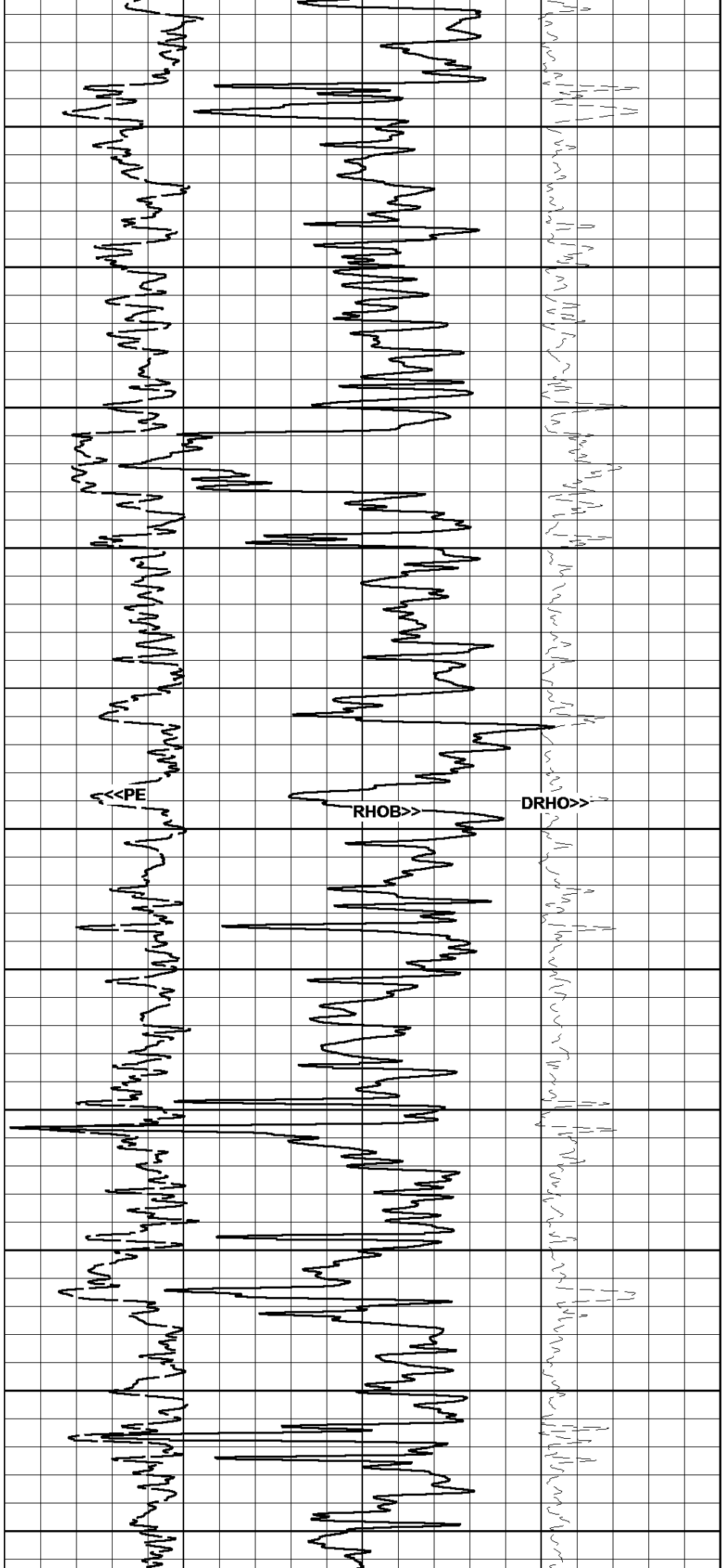


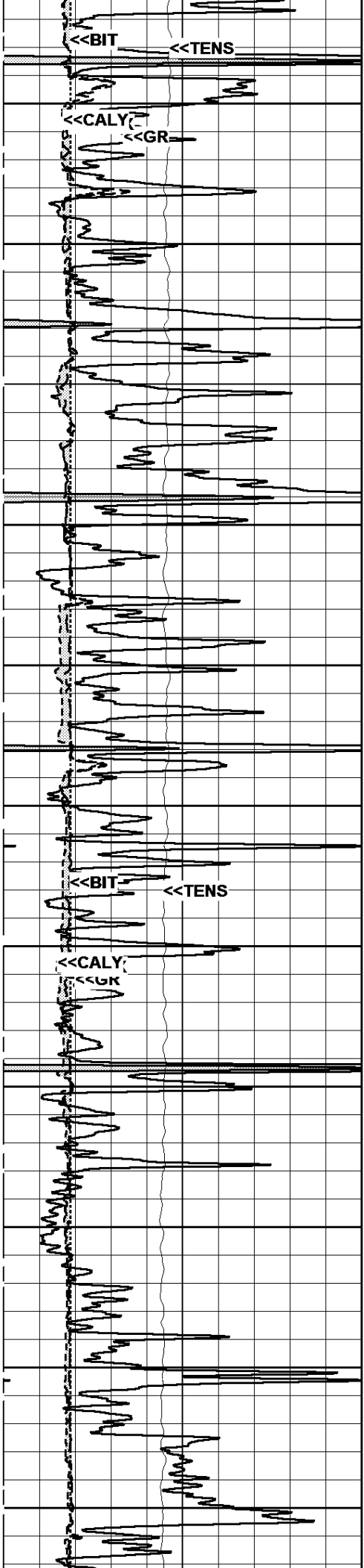
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2950
3000
3050
3100
3150
3200
3250
3300
3350



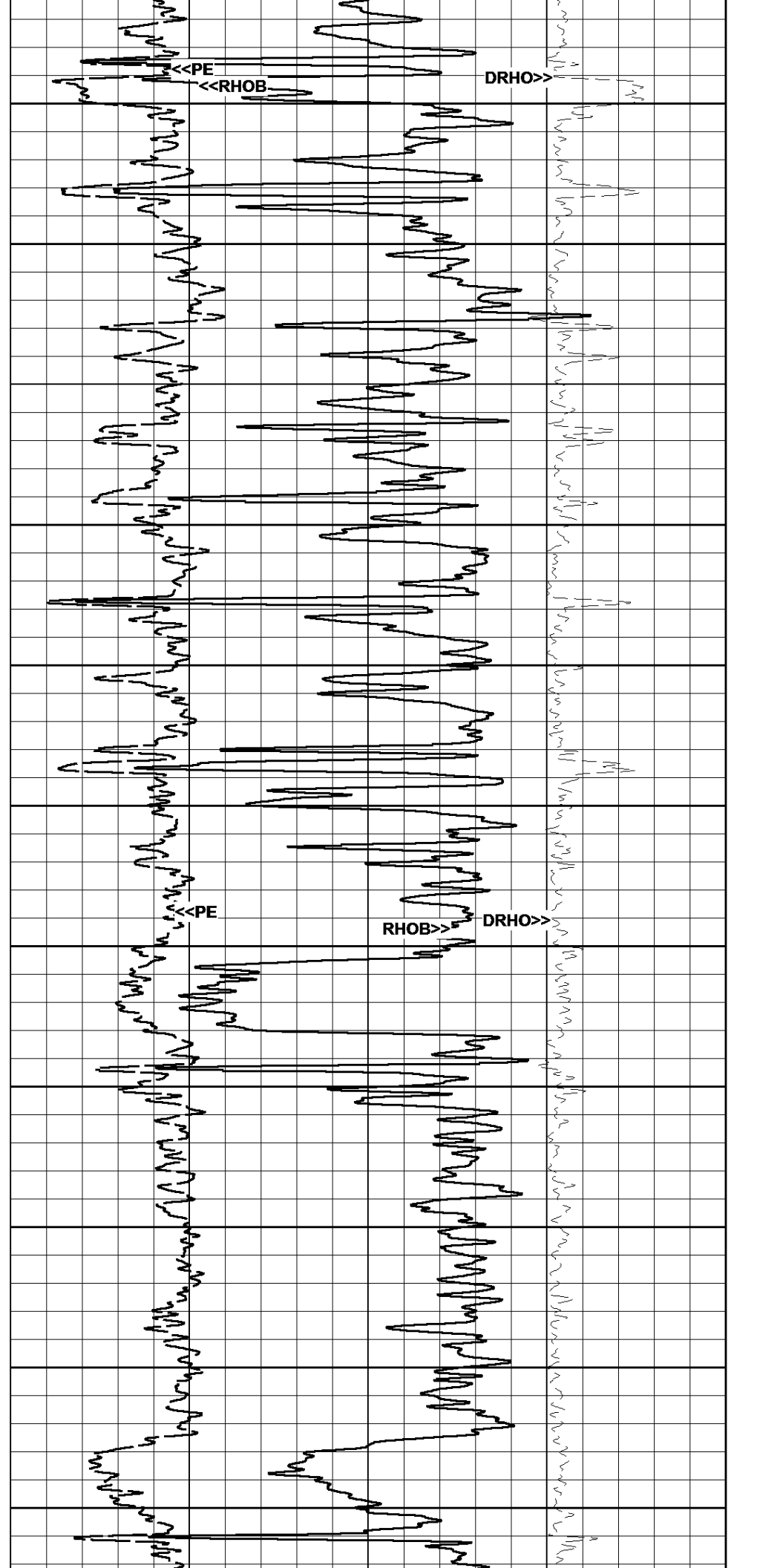


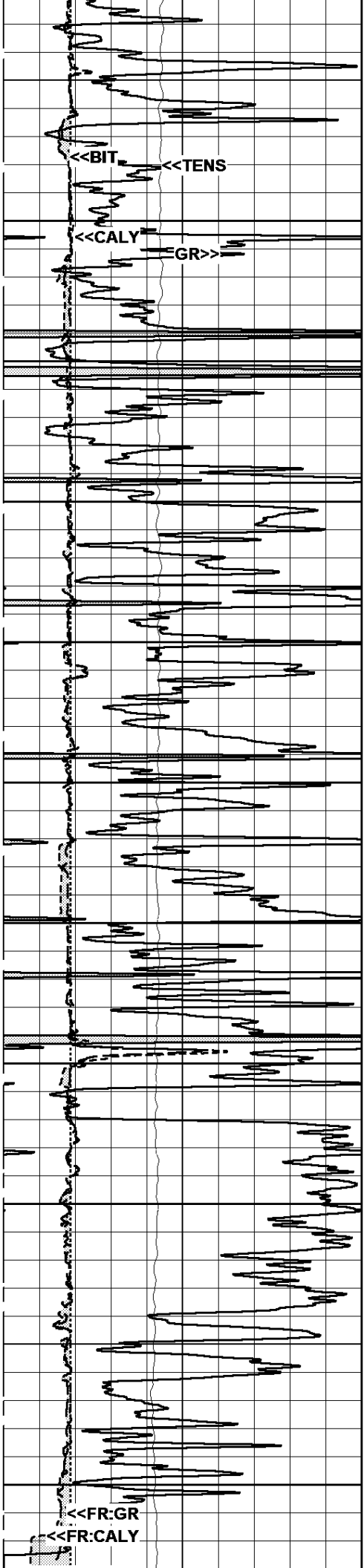
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3700
3750
3800
3850
3900



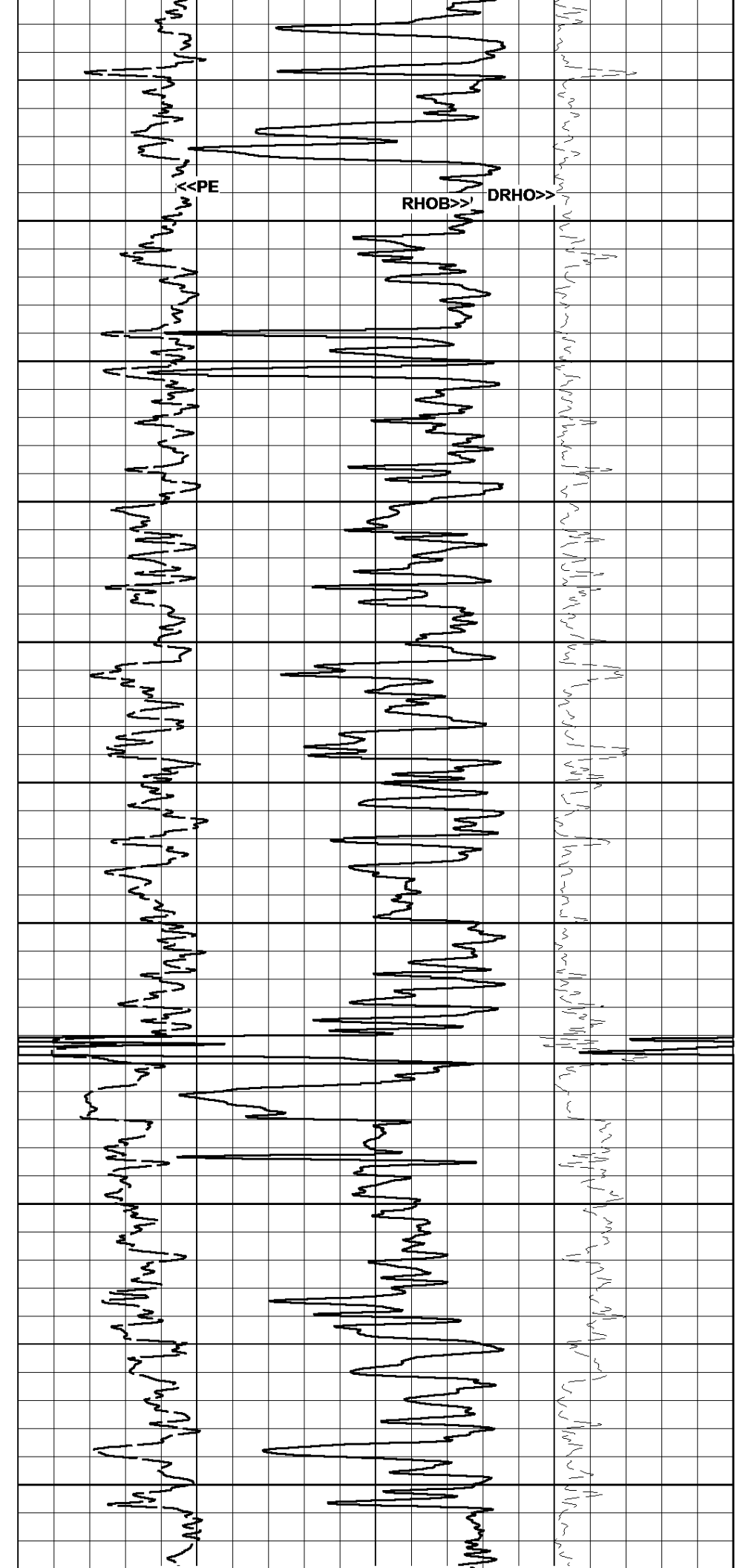


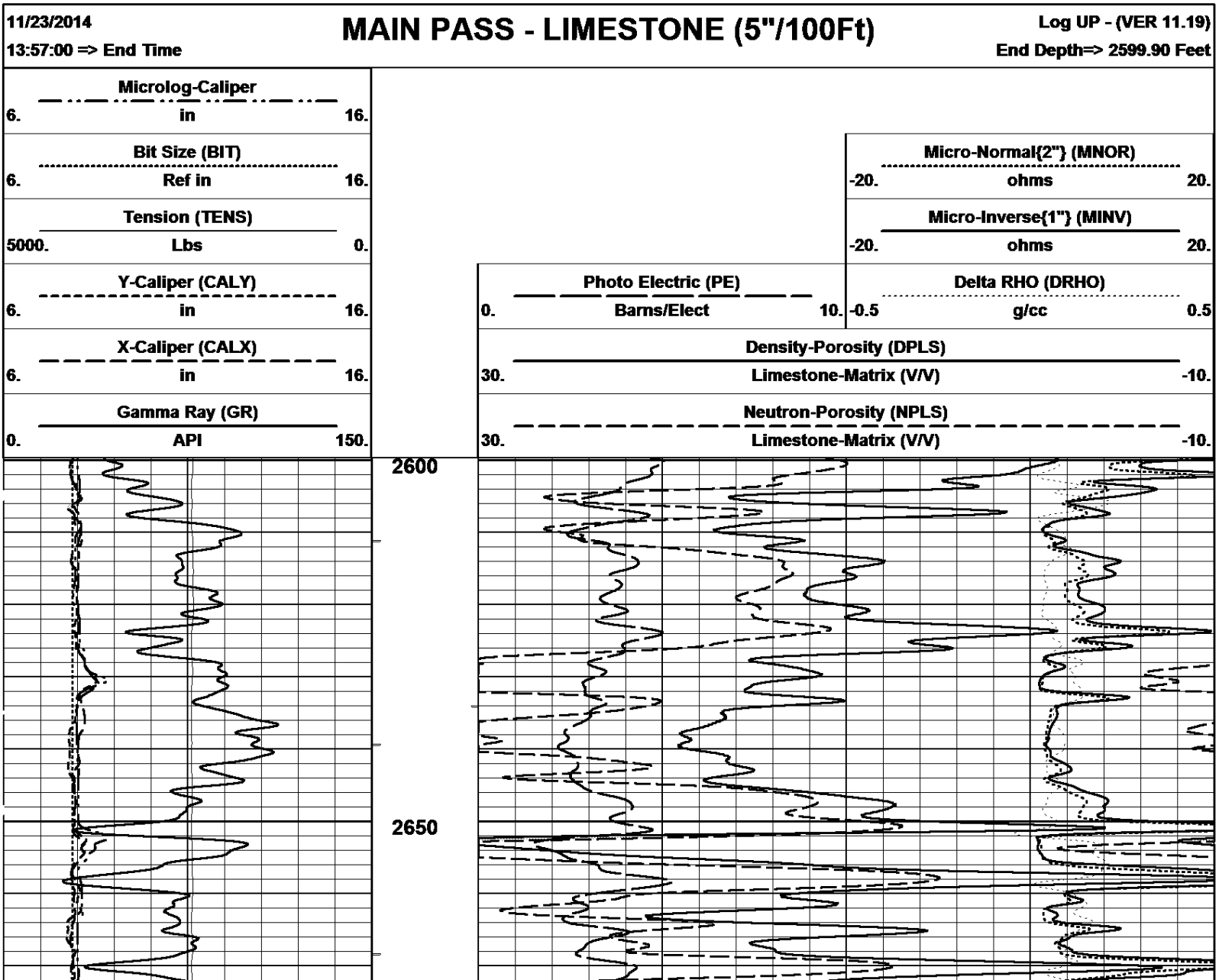
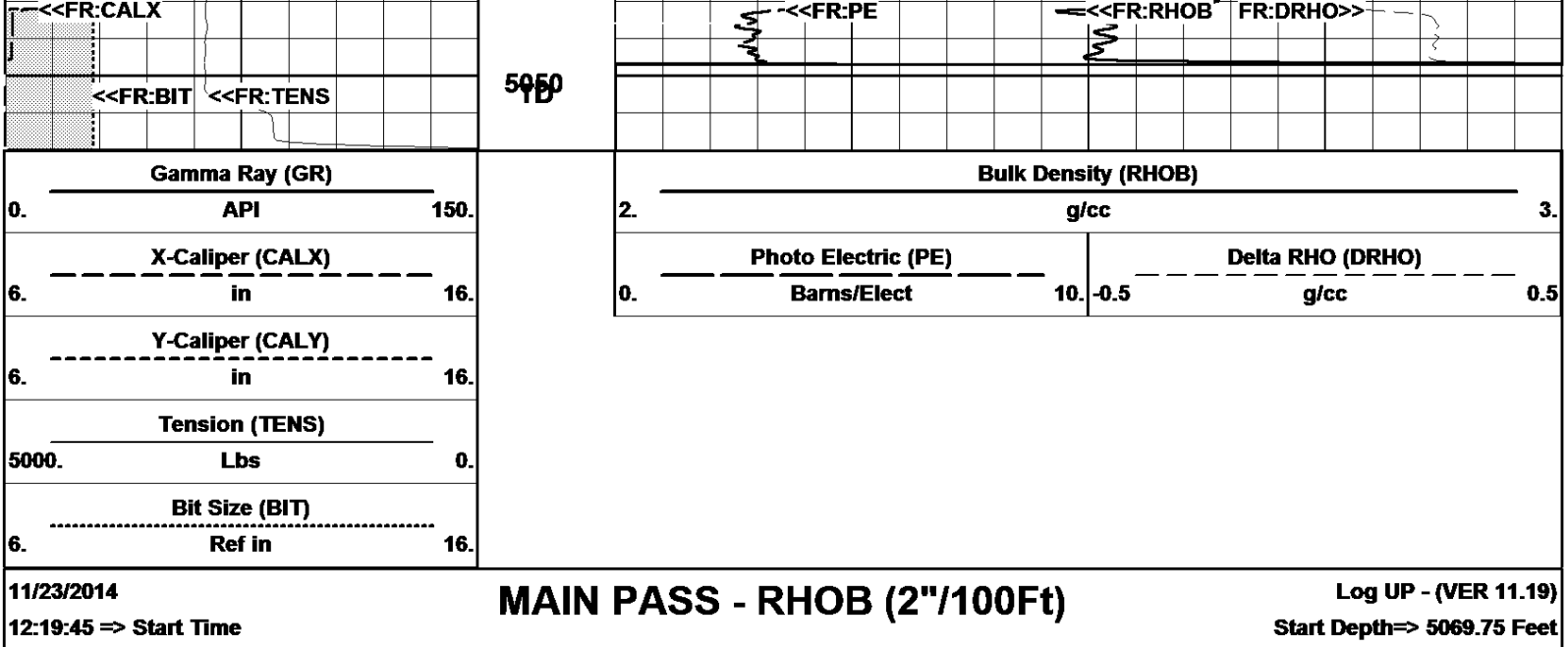
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4200
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4450

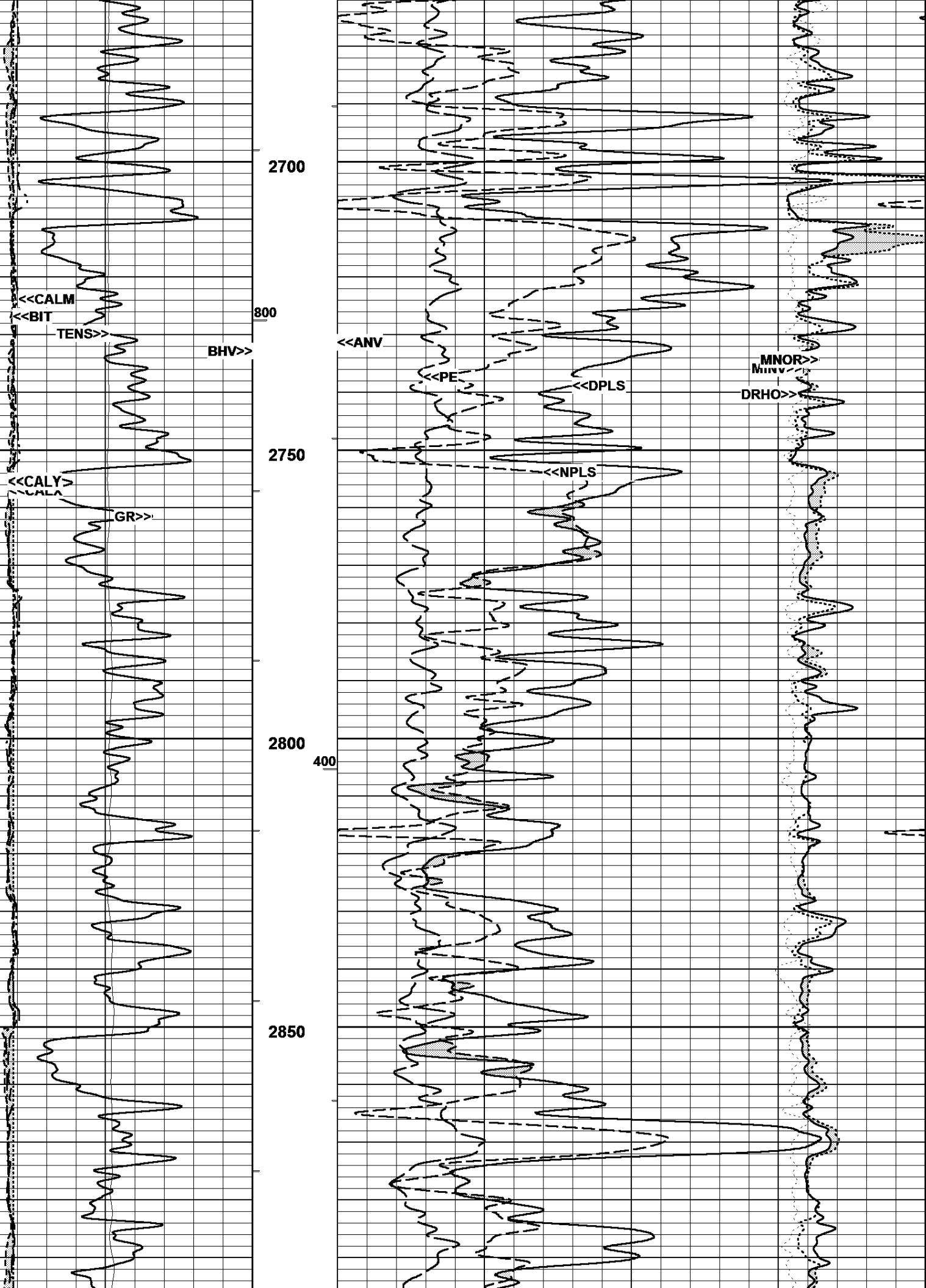


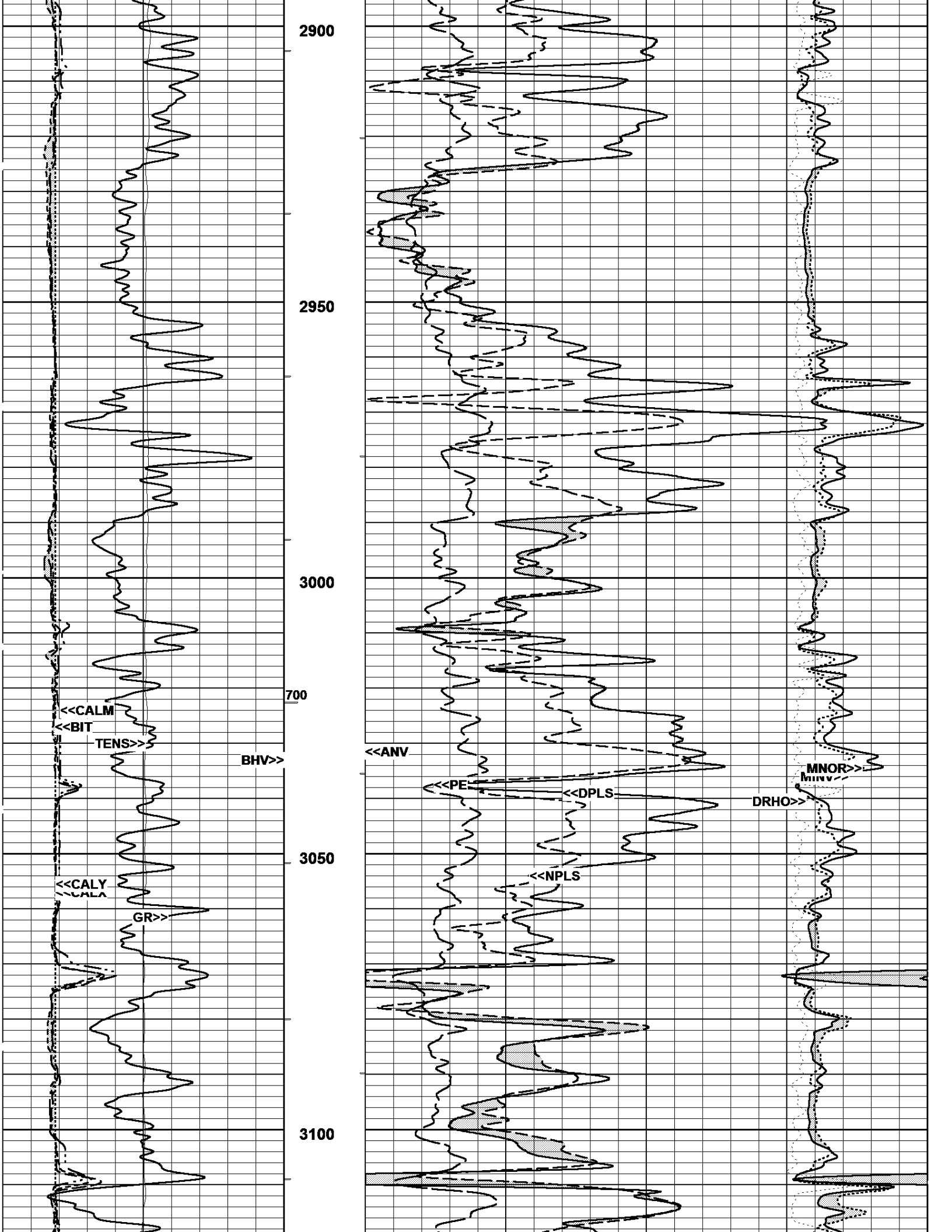


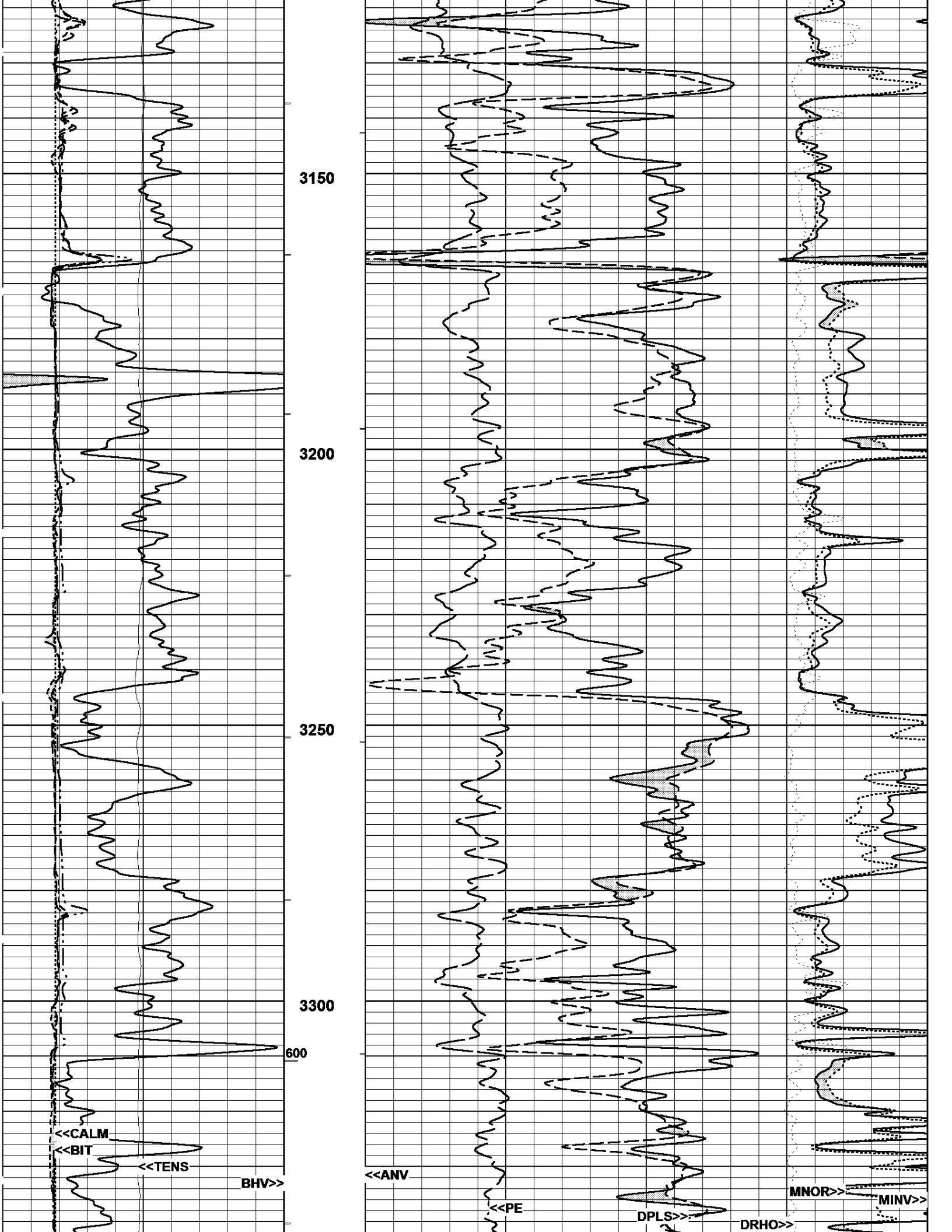
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4550
4600
4650
4700
4750
4800
4850
4900
4950
5000

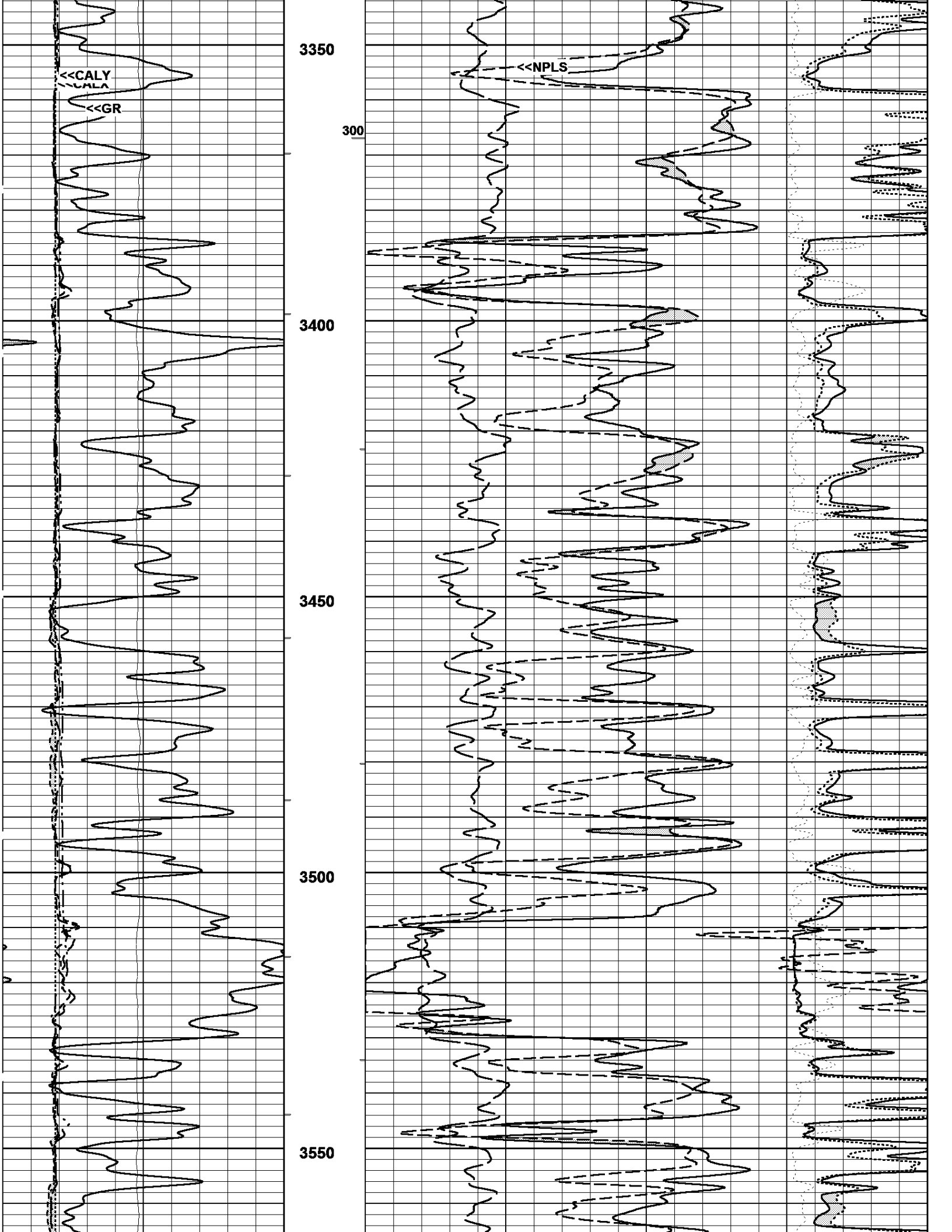


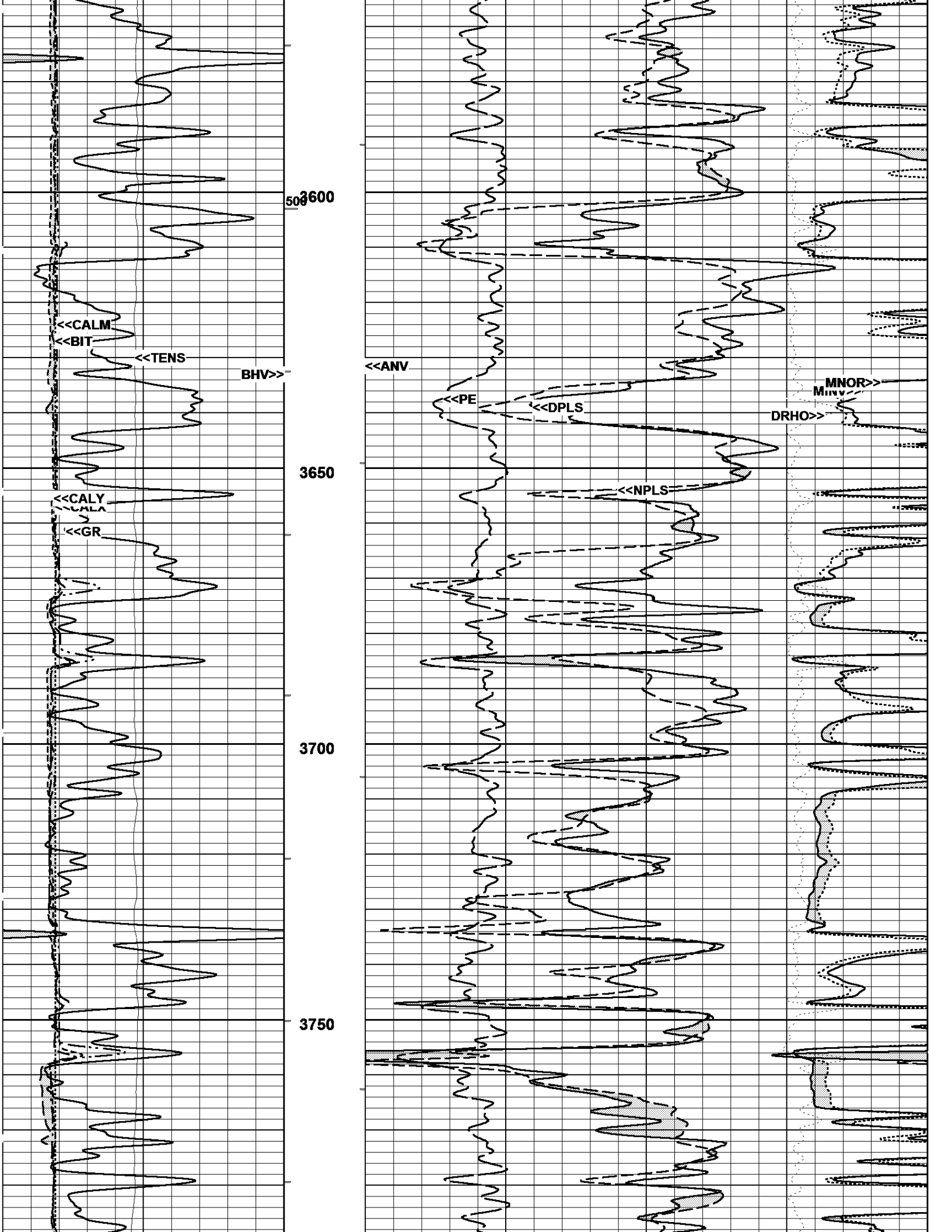












502600

<<CALM
<<BIT
<<TENS

BHV>>

<<ANV

<<PE

<<DPLS

MNOR>>
MIRV

DRHO>>

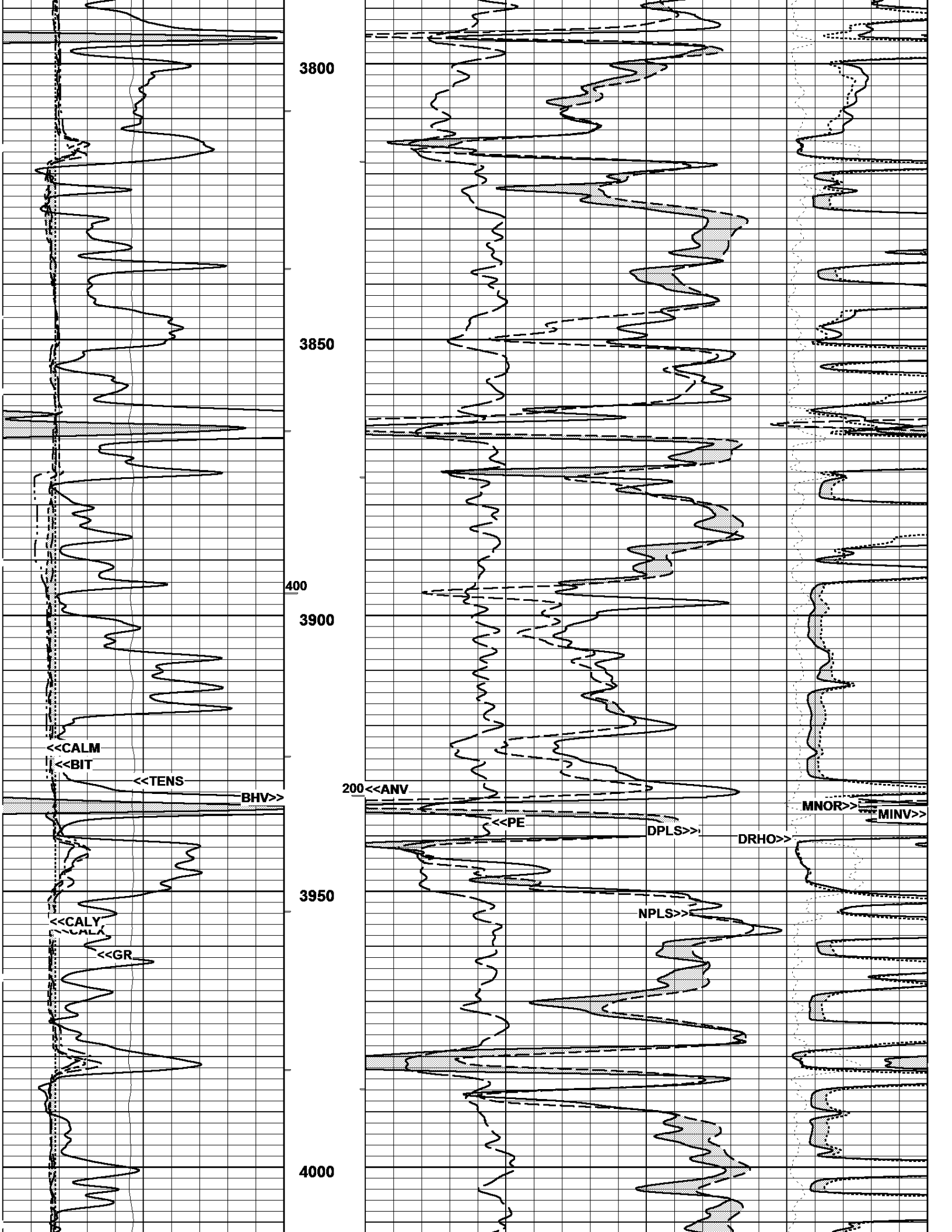
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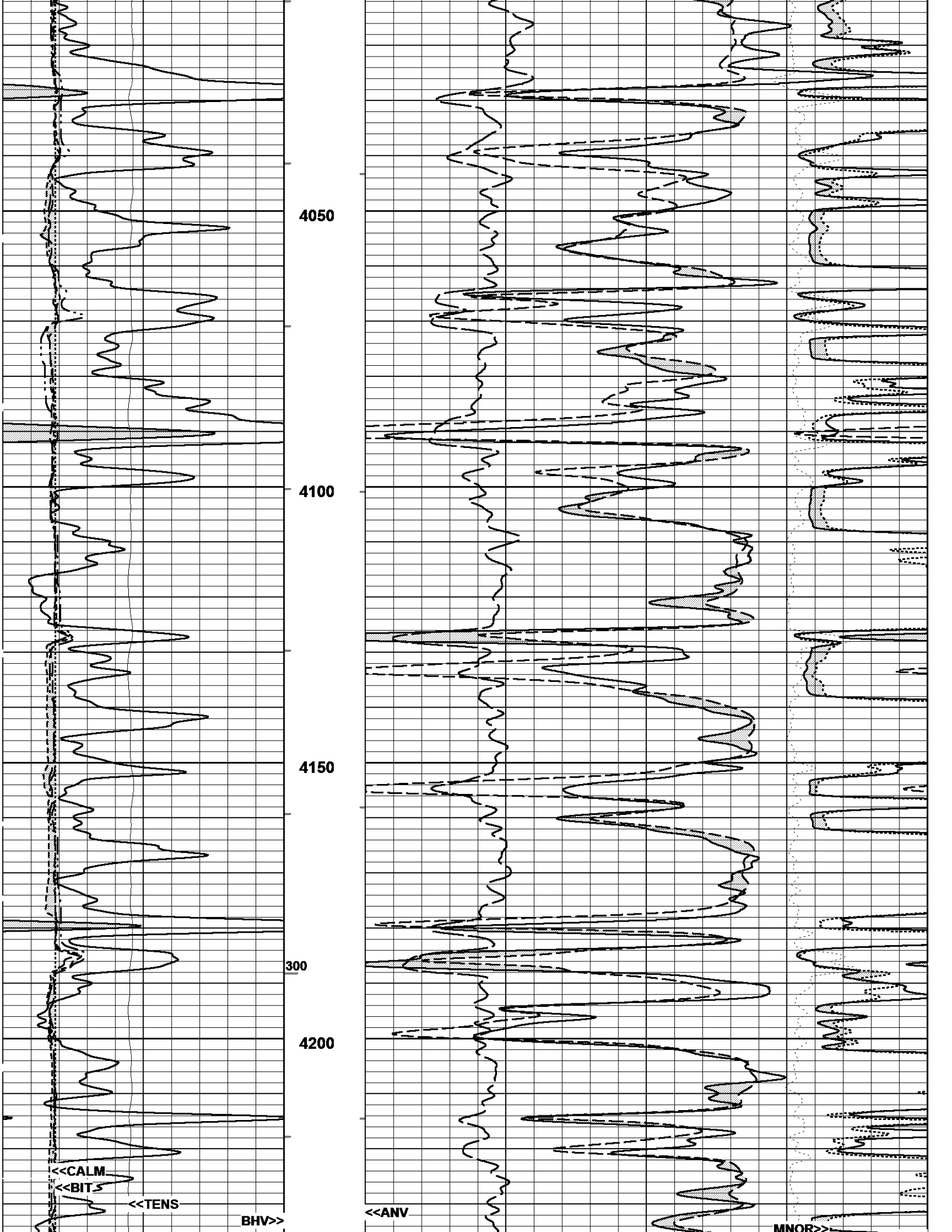
<<CALY
<<CALA
<<GR

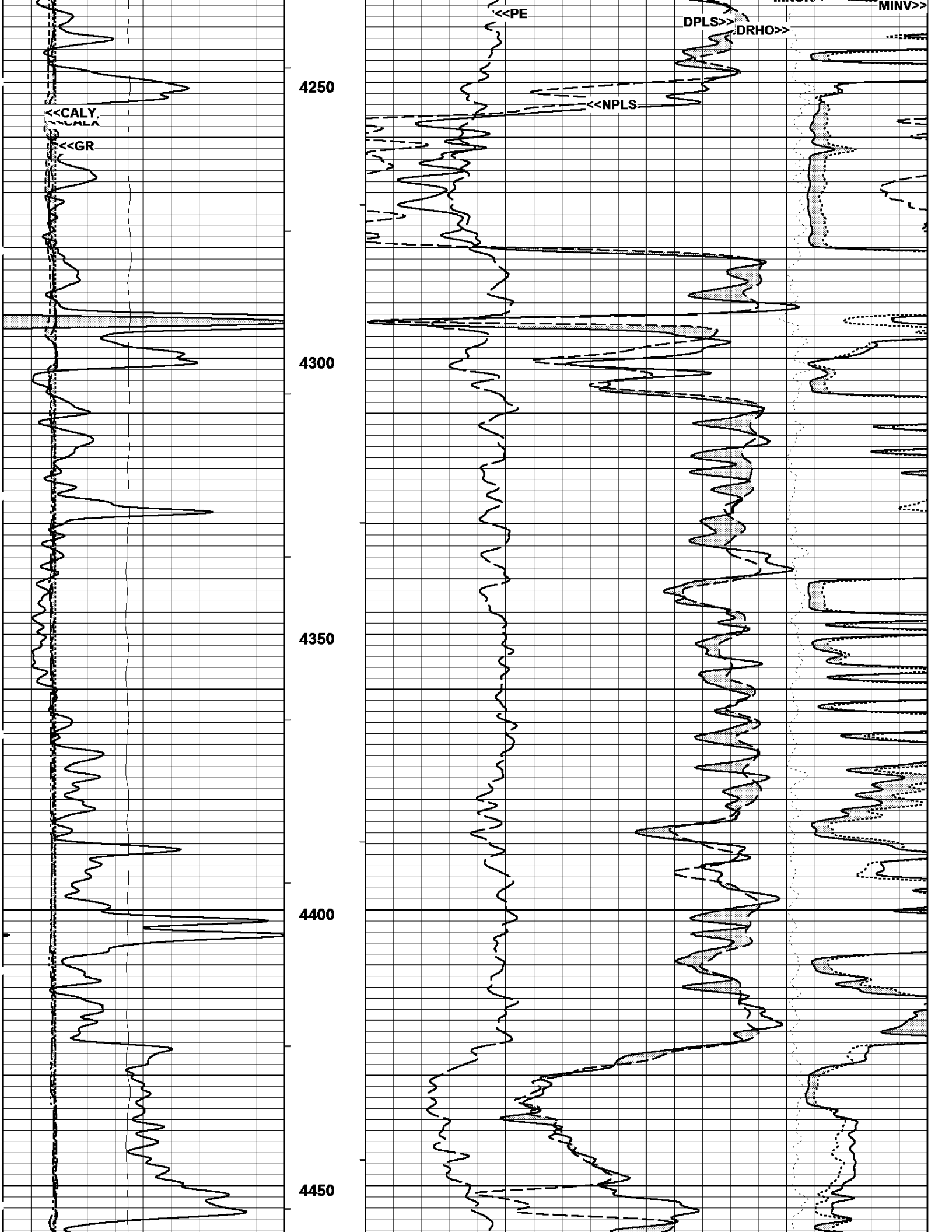
<<NPLS

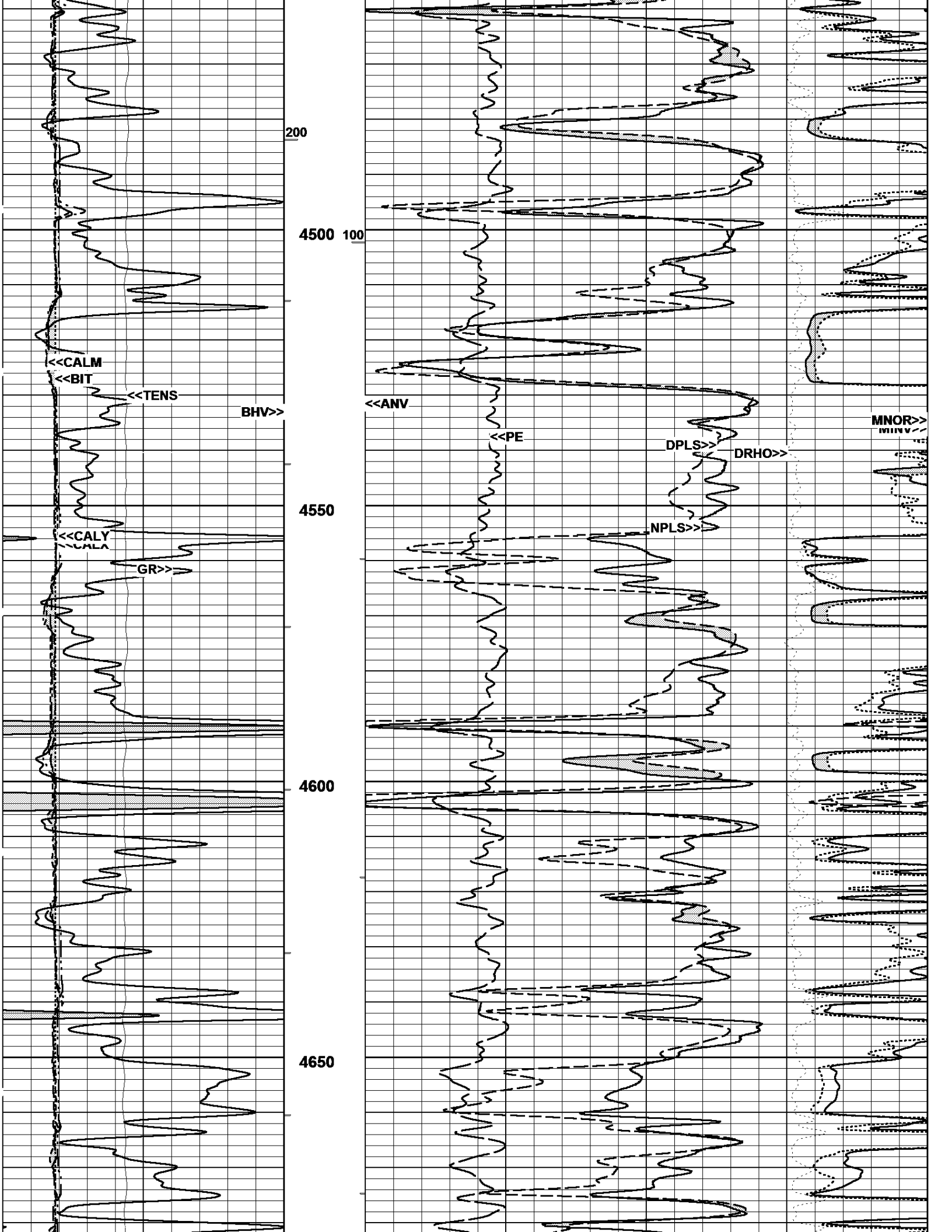
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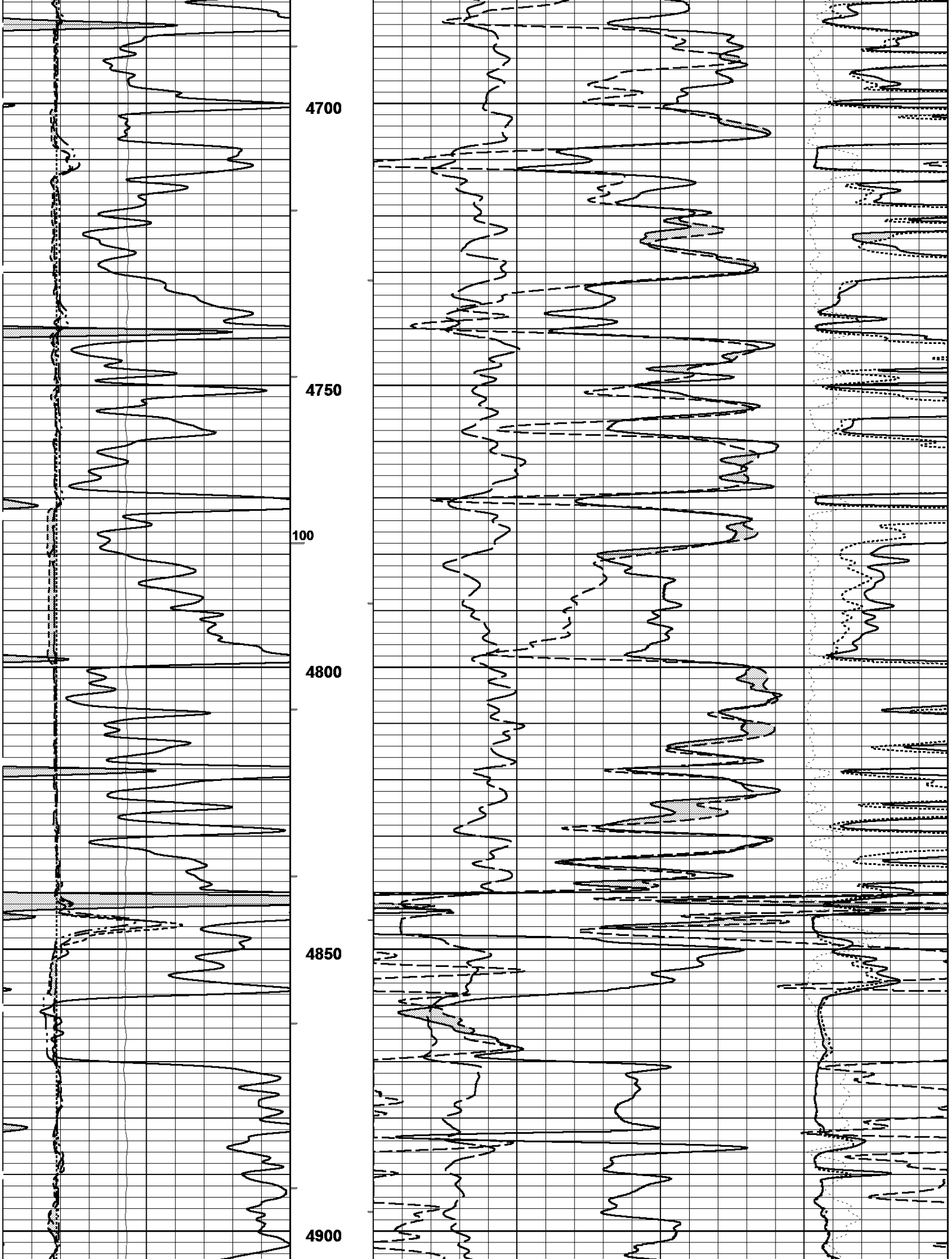
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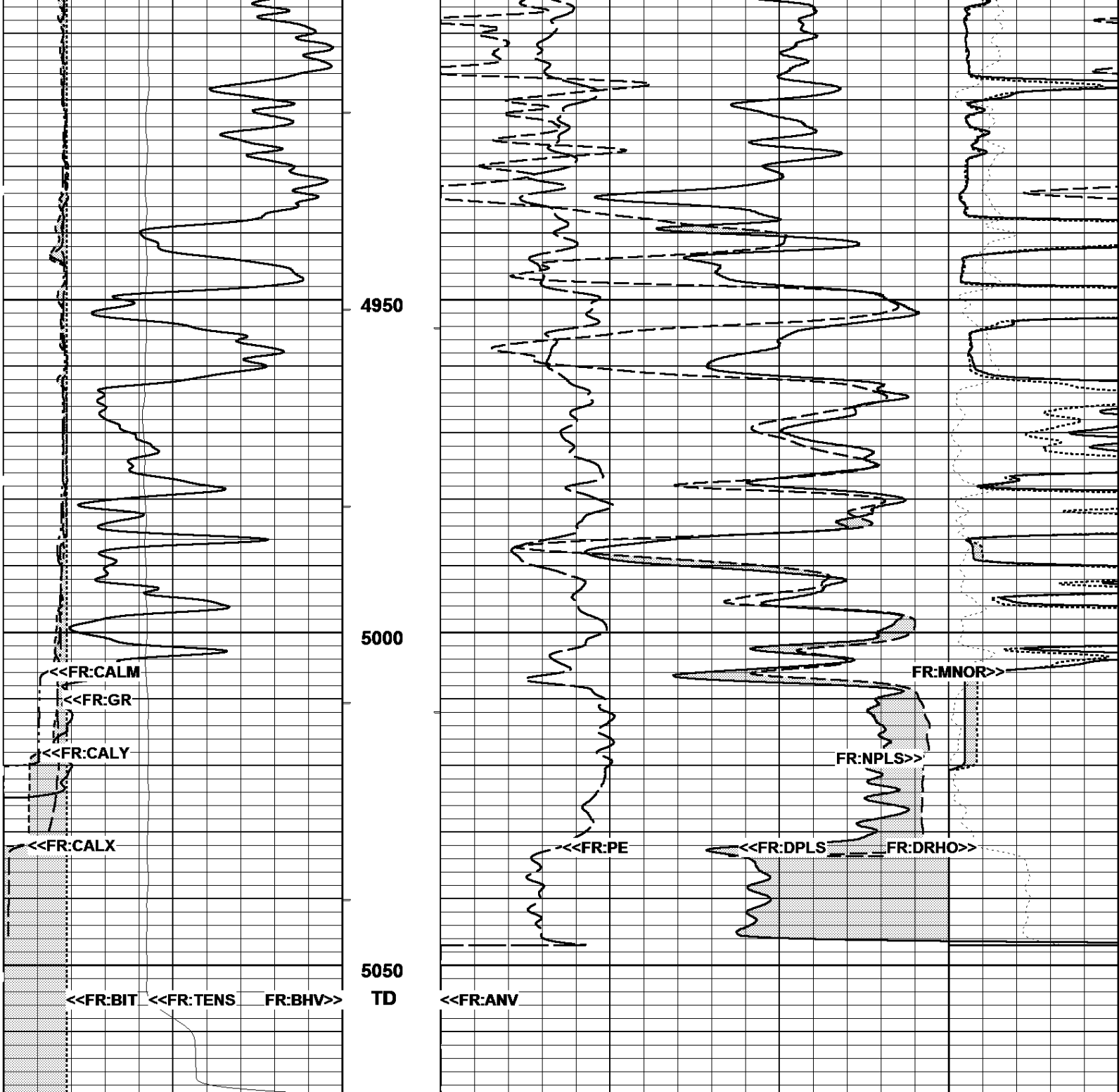












Gamma Ray (GR)	
0.	150.
API	
<hr/>	
X-Caliper (CALX)	
6.	16.
in	
<hr/>	
Y-Caliper (CALY)	
6.	16.
in	
<hr/>	
Tension (TENS)	
5000.	0.
Lbs	
<hr/>	
Bit Size (BIT)	
6.	16.
Ref in	
<hr/>	
Microlog-Caliper	
6.	16.
in	

Neutron-Porosity (NPLS)	
30.	-10.
Limestone-Matrix (V/V)	
<hr/>	
Density-Porosity (DPLS)	
30.	-10.
Limestone-Matrix (V/V)	
<hr/>	
Photo Electric (PE)	
0.	10.
Barns/Elect	
<hr/>	
Delta RHO (DRHO)	
-0.5	0.5
g/cc	
<hr/>	
Micro-Inverse{1"} (MINV)	
-20.	20.
ohms	
<hr/>	
Micro-Normal{2"} (MNOR)	
-20.	20.
ohms	

11/23/2014

REPEAT PASS - LIMESTONE (5"/100ft)

Log UP - (VER 11.19)

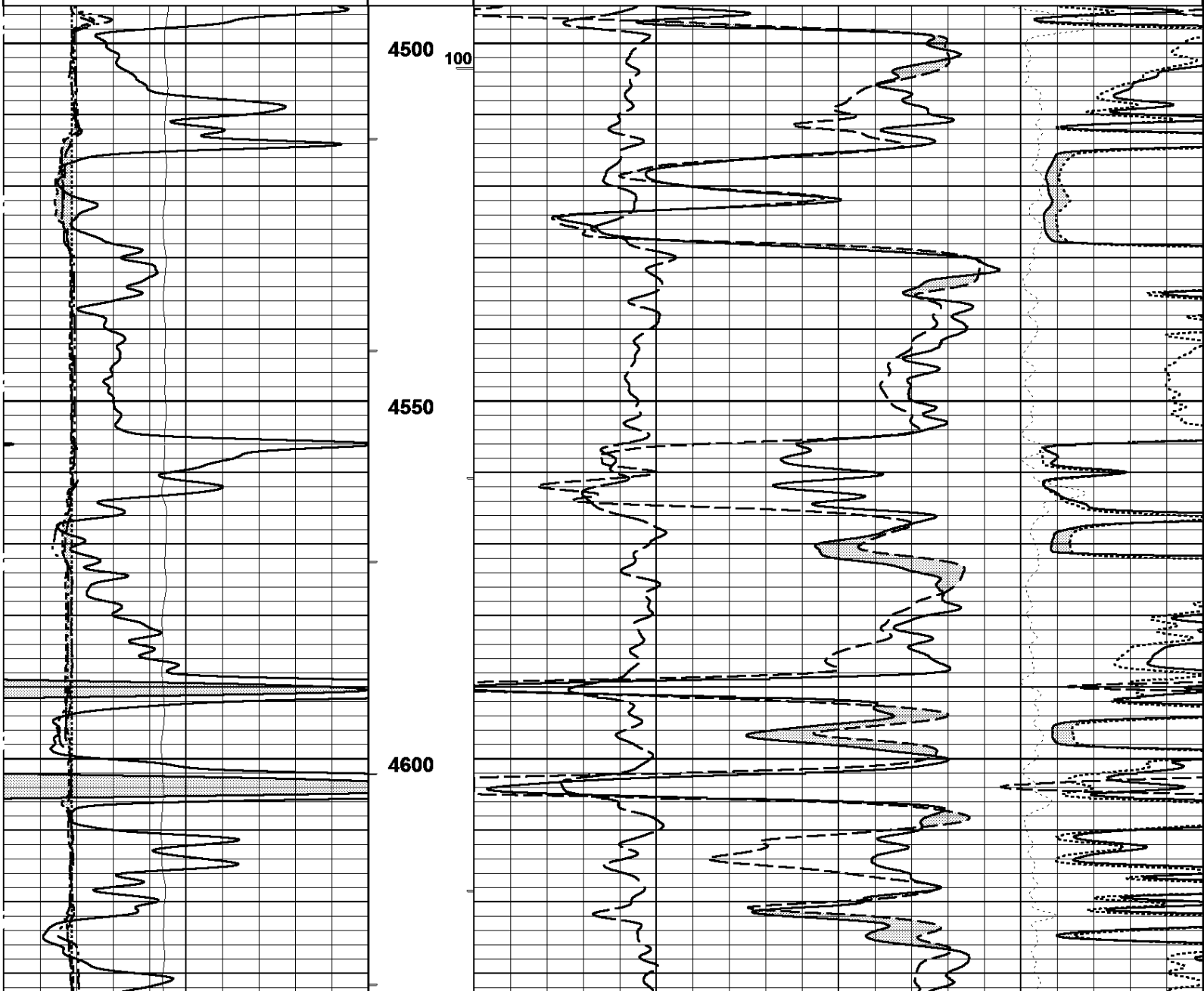
12:01:06 => End Time

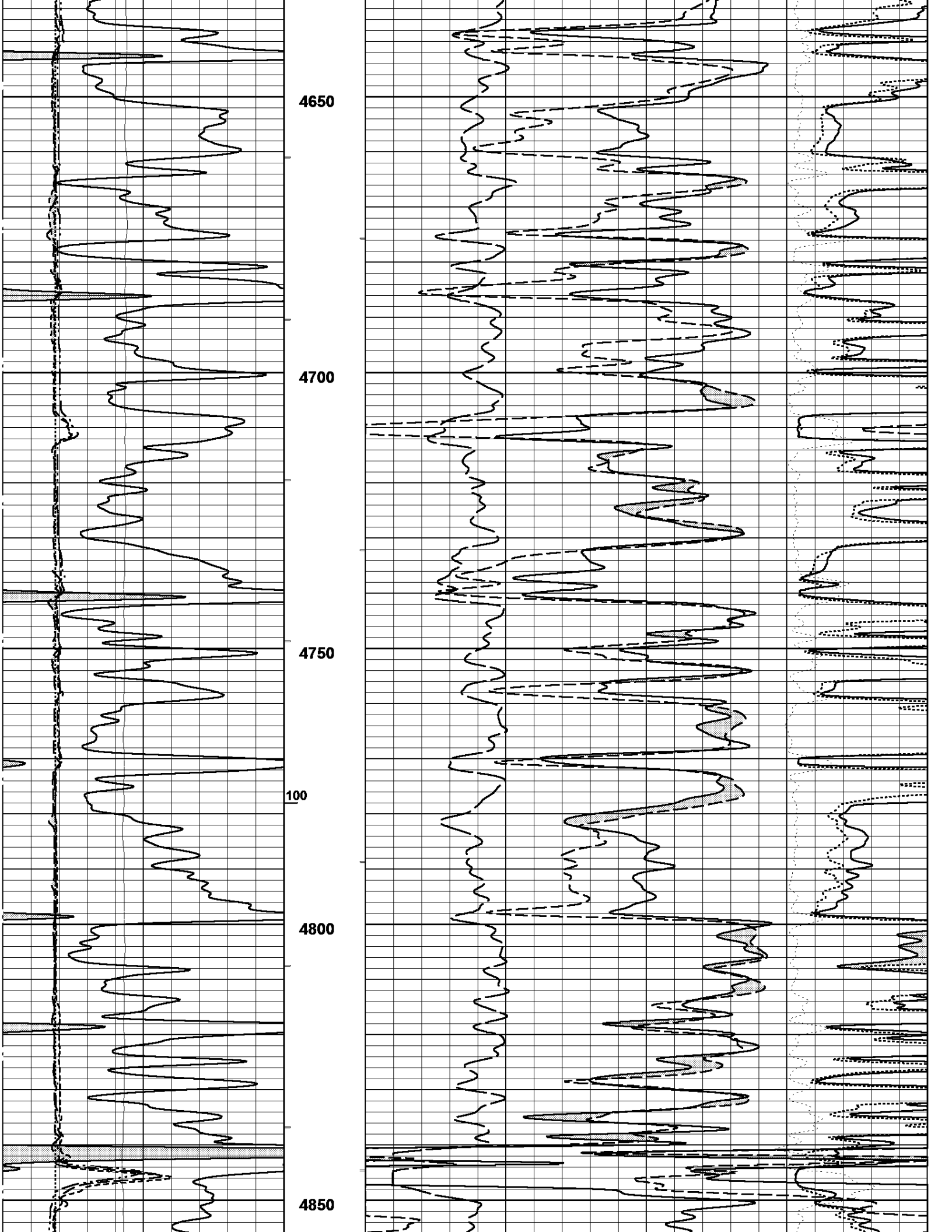
End Depth=> 4494.90 Feet

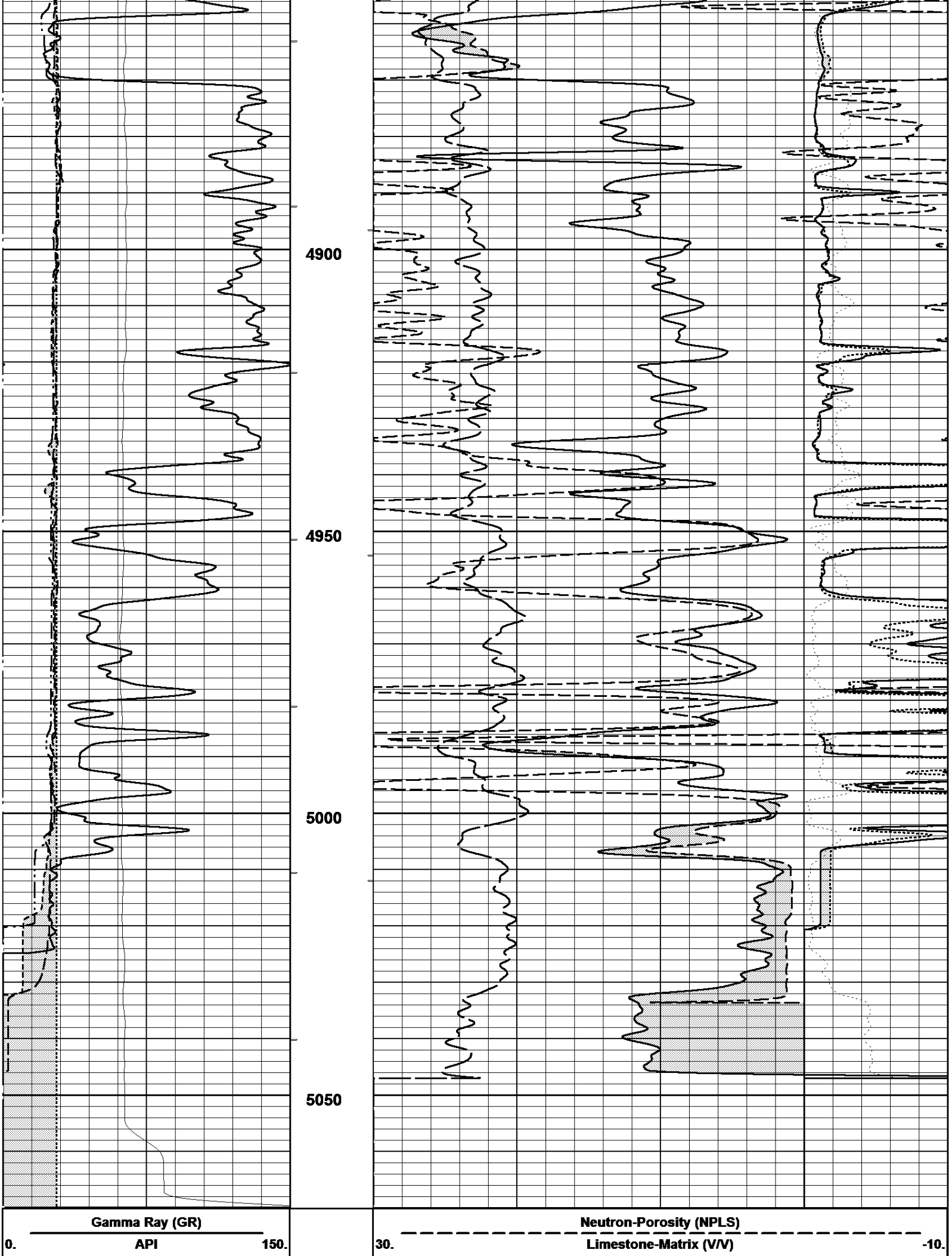
Microlog-Caliper		
6.	in	16.
Bit Size (BIT)		
6.	Ref in	16.
Tension (TENS)		
5000.	Lbs	0.
Y-Caliper (CALY)		
6.	in	16.
X-Caliper (CALX)		
6.	in	16.
Gamma Ray (GR)		
0.	API	150.

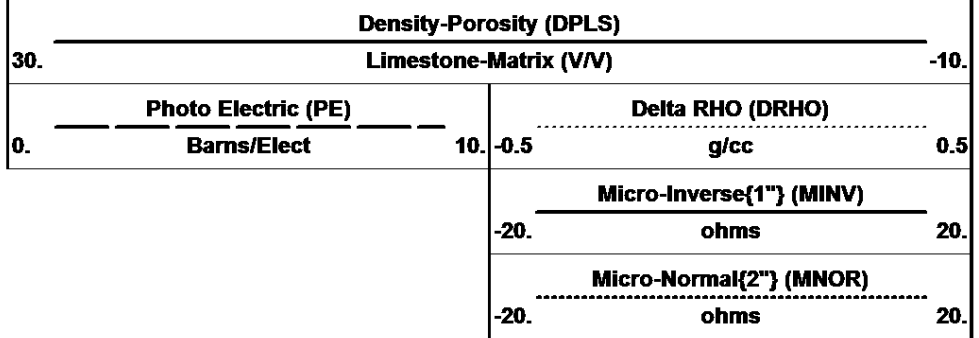
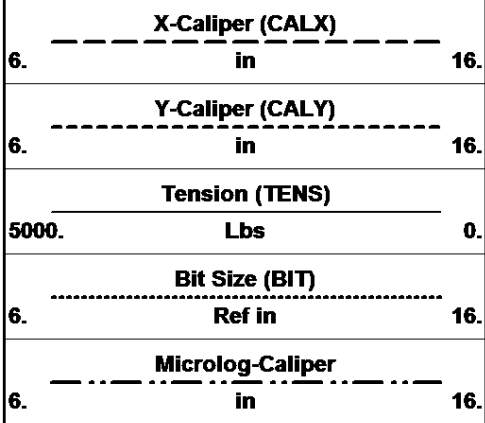
Micro-Normal{2"} (MNOR)		
-20.	ohms	20.
Micro-Inverse{1"} (MINV)		
-20.	ohms	20.

Photo Electric (PE)		
0.	Barns/Elect	10.
Density-Porosity (DPLS)		
30.	Limestone-Matrix (V/V)	-10.
Neutron-Porosity (NPLS)		
30.	Limestone-Matrix (V/V)	-10.



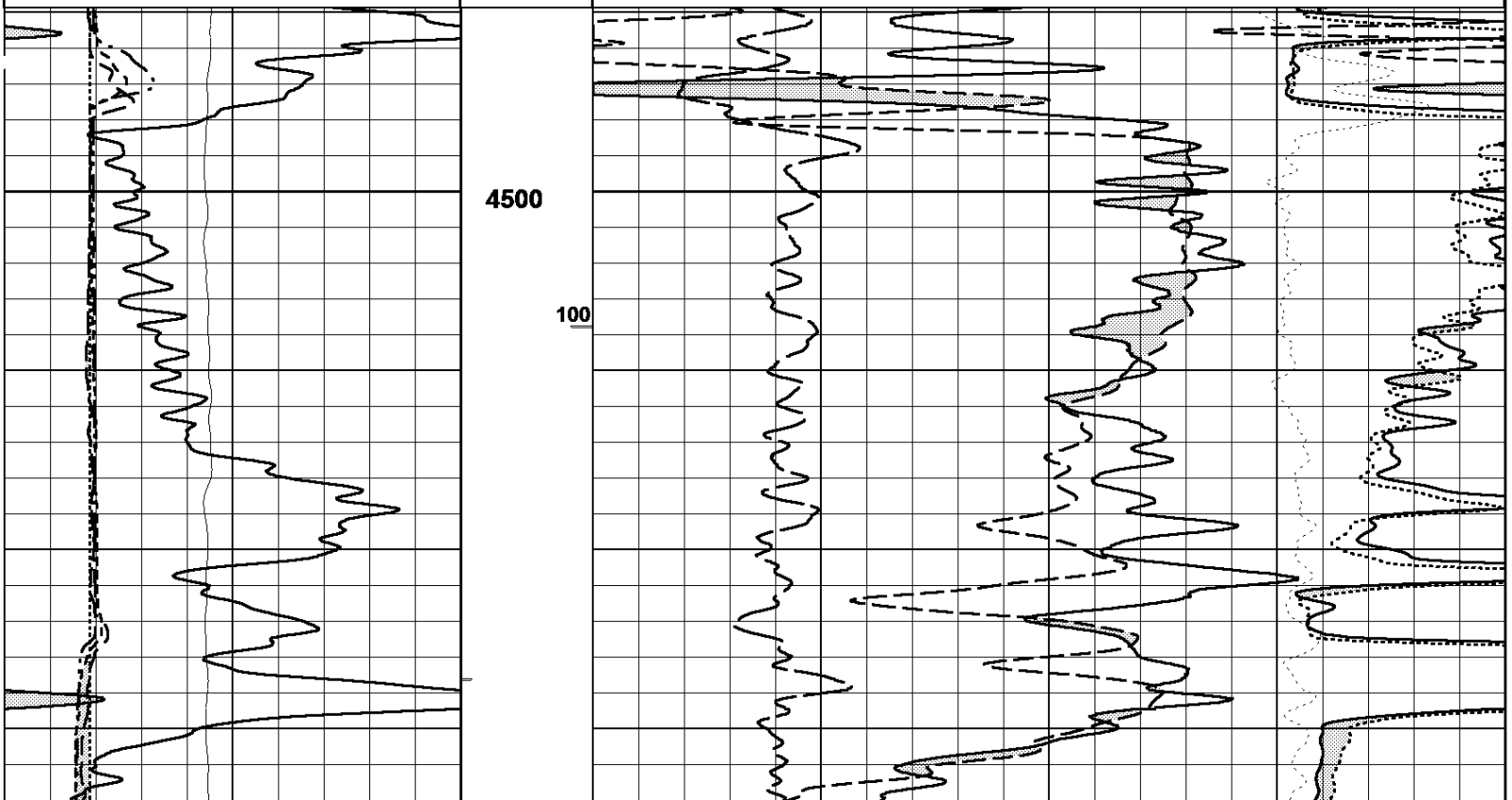
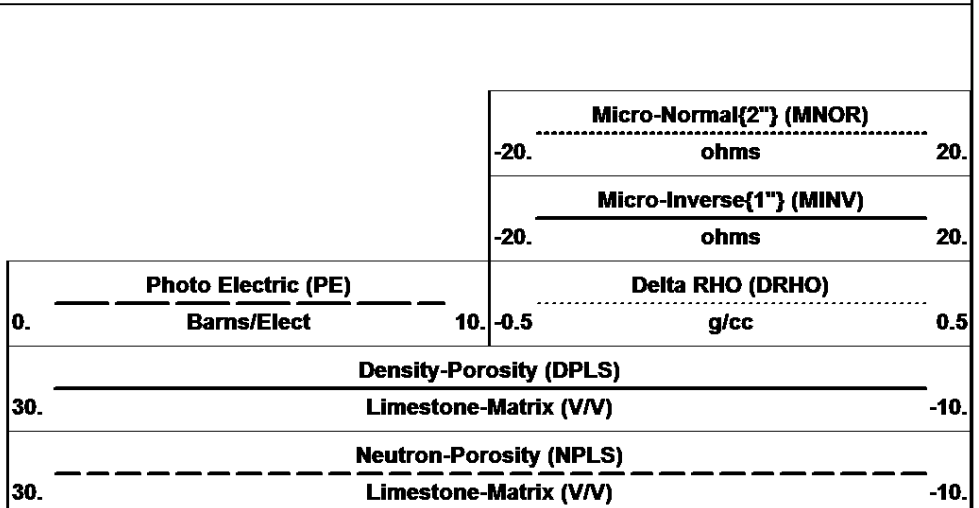
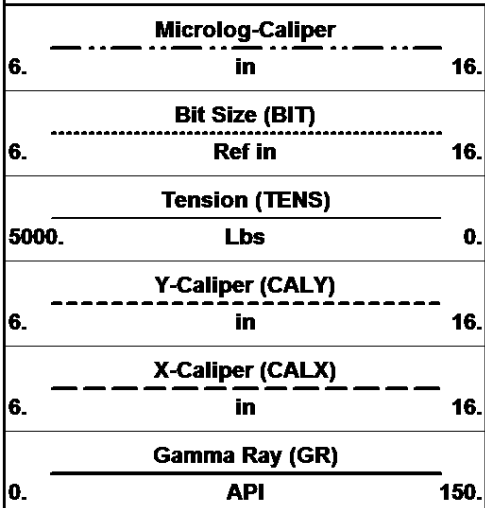


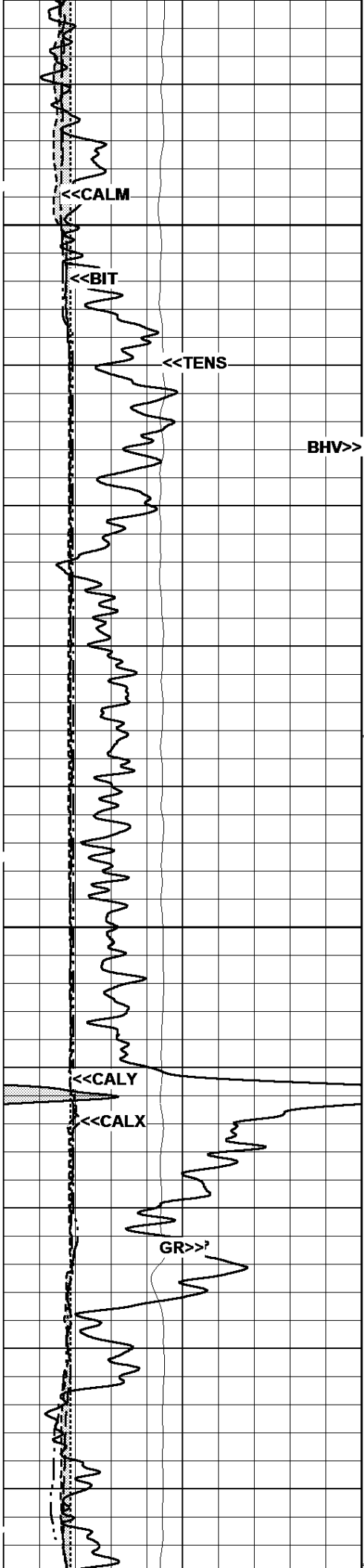




11/23/2014 **REPEAT PASS - LIMESTONE (5"/100ft)** Log UP - (VER 11.19)
 11:37:52 => Start Time Start Depth=> 5069.90 Feet

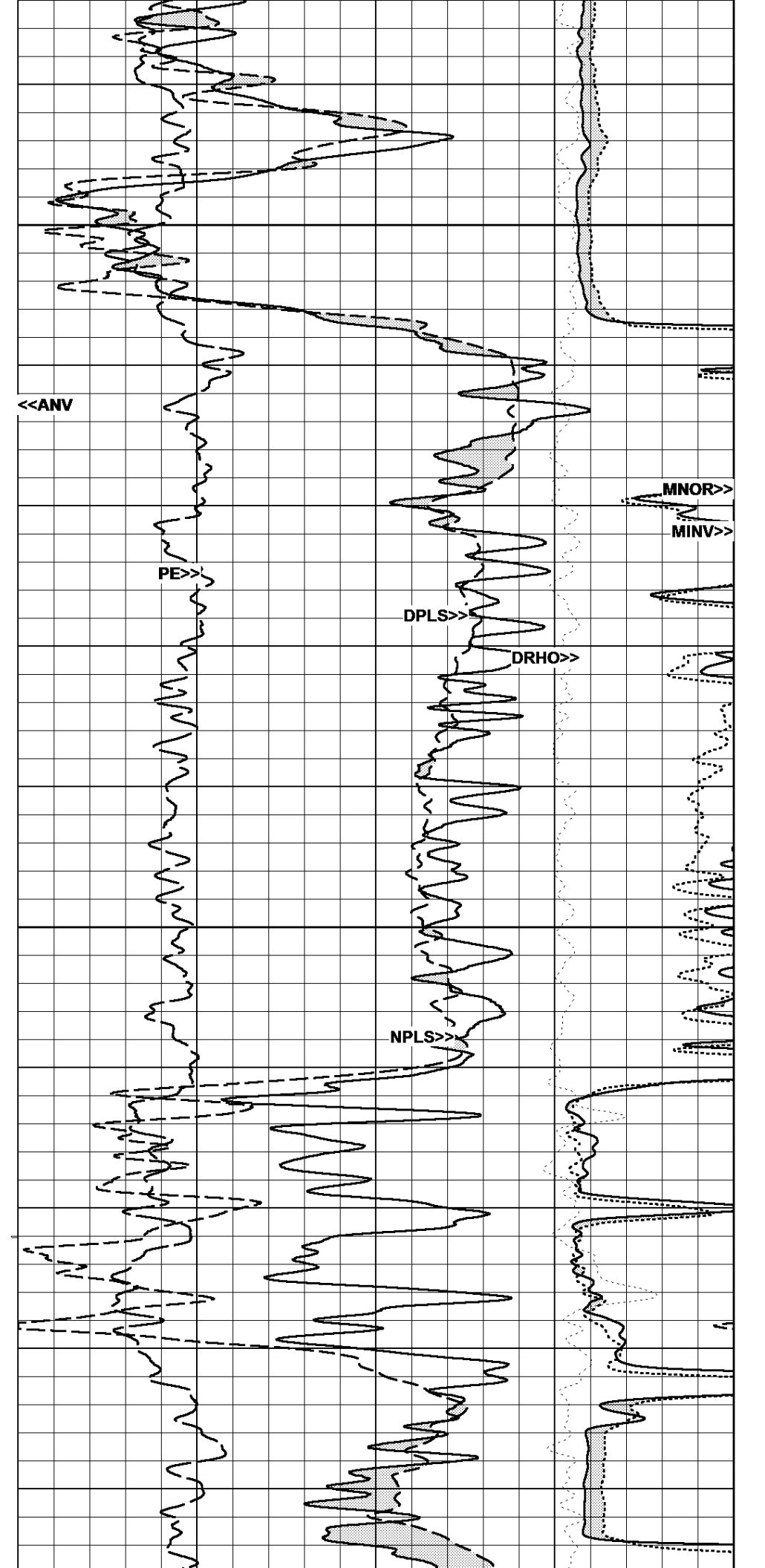
11/23/2014 **HIGH DEFINITION PASS - LIMESTONE (20"/100ft)** Log UP - (VER 11.19)
 12:01:06 => End Time End Depth=> 4494.93 Feet

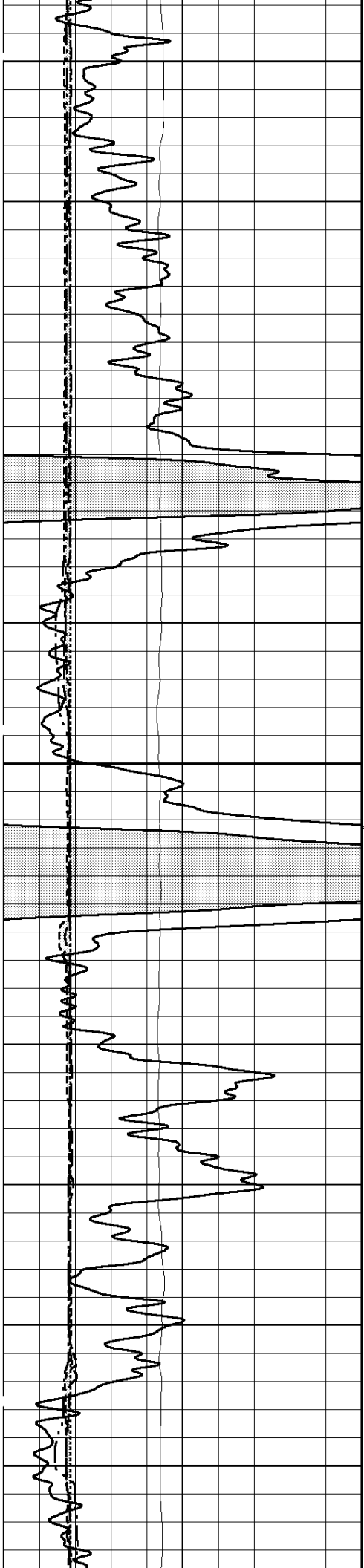




4525

4550

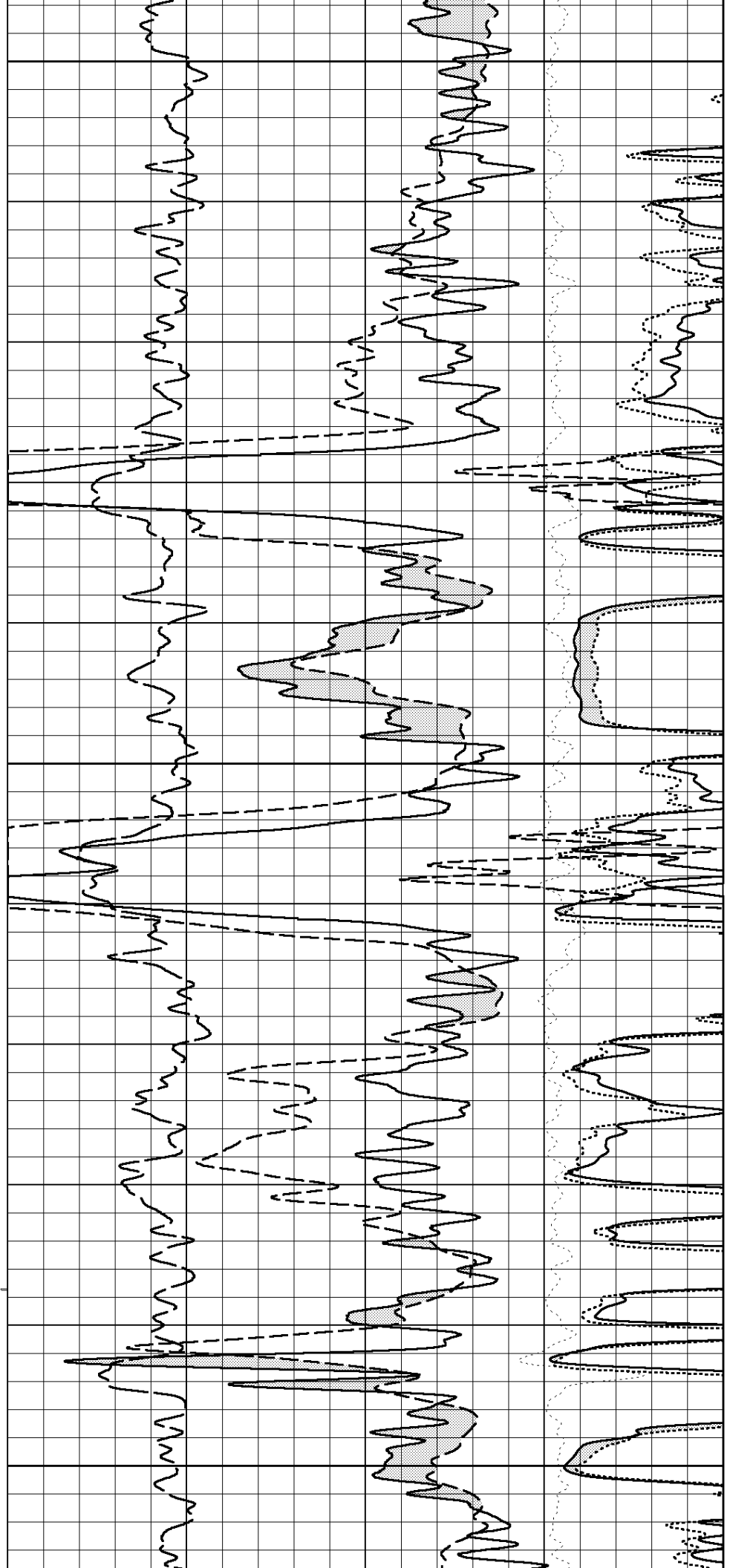


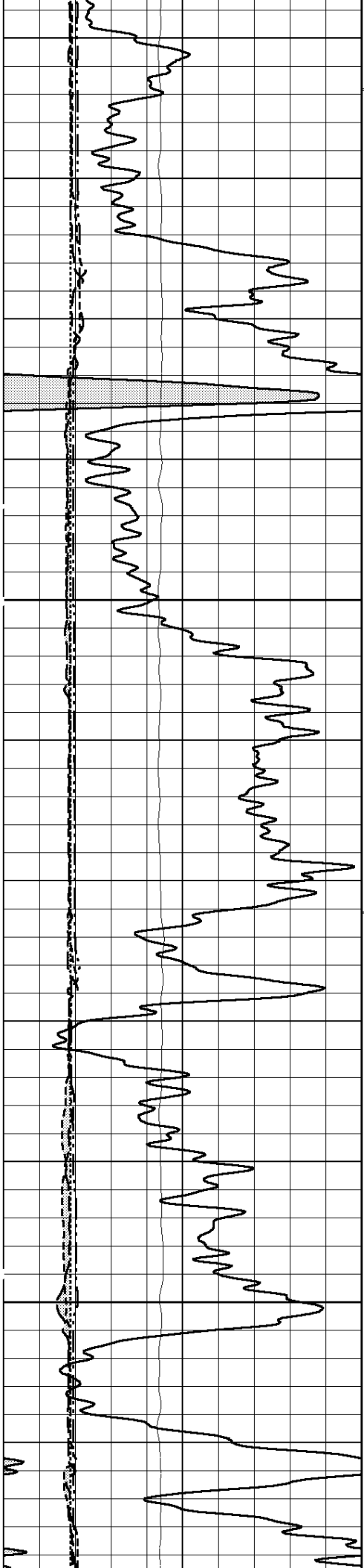


4575

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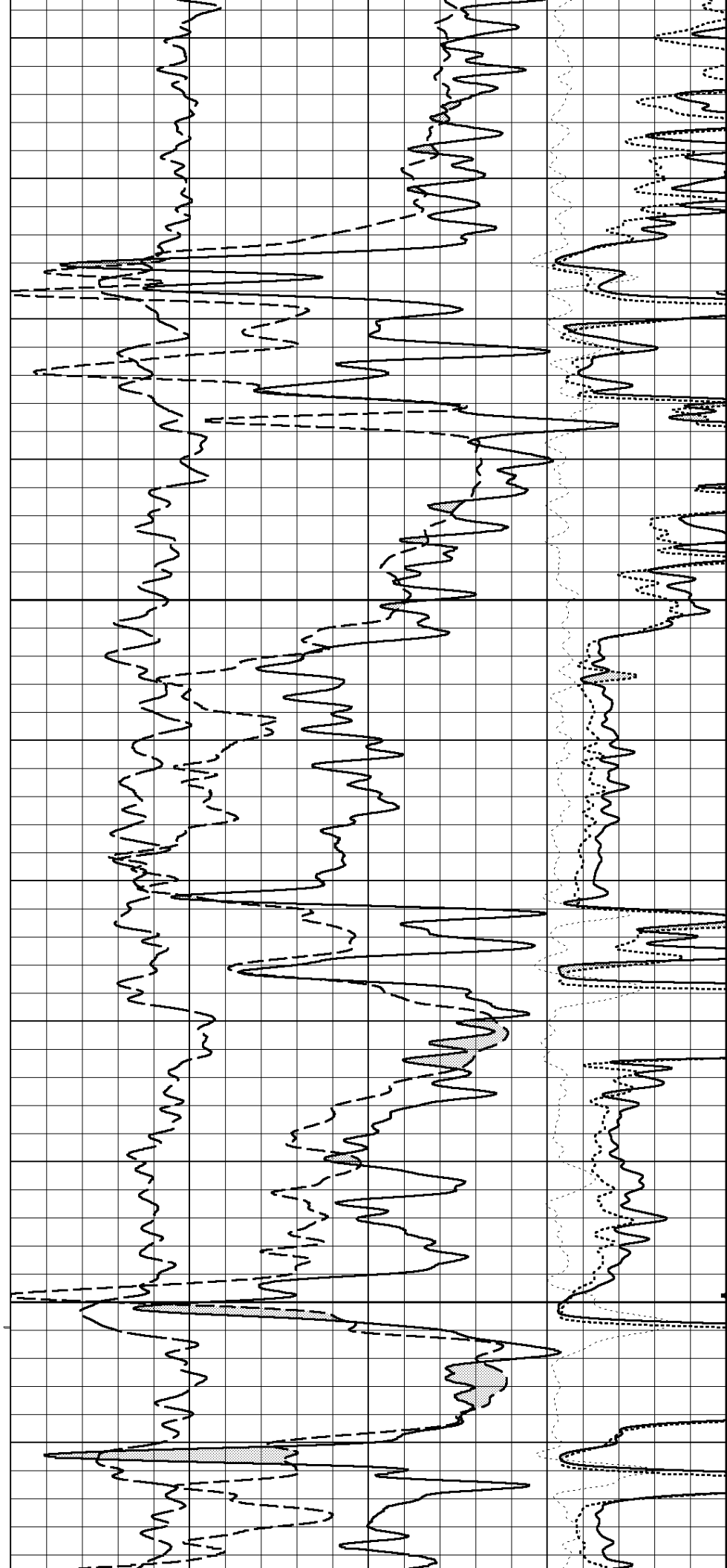
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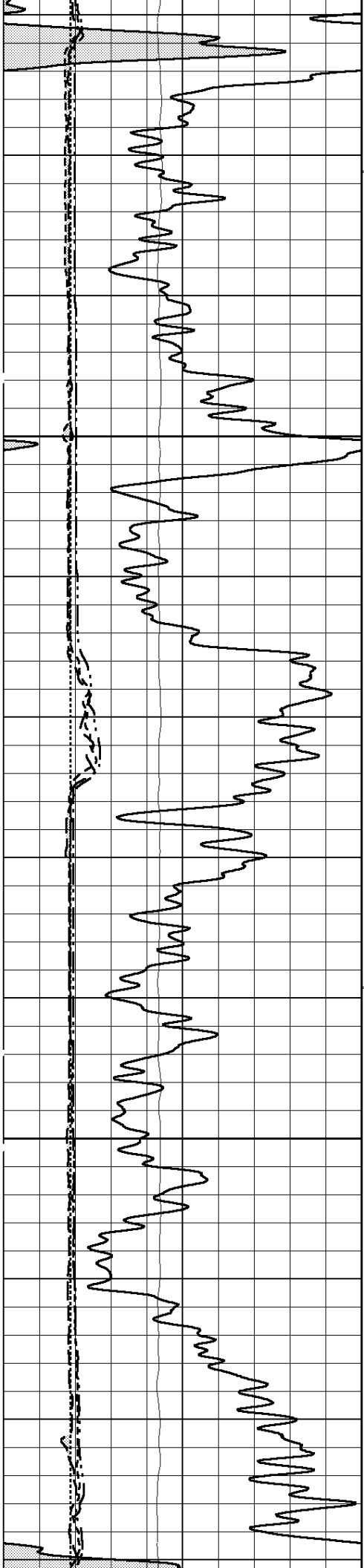




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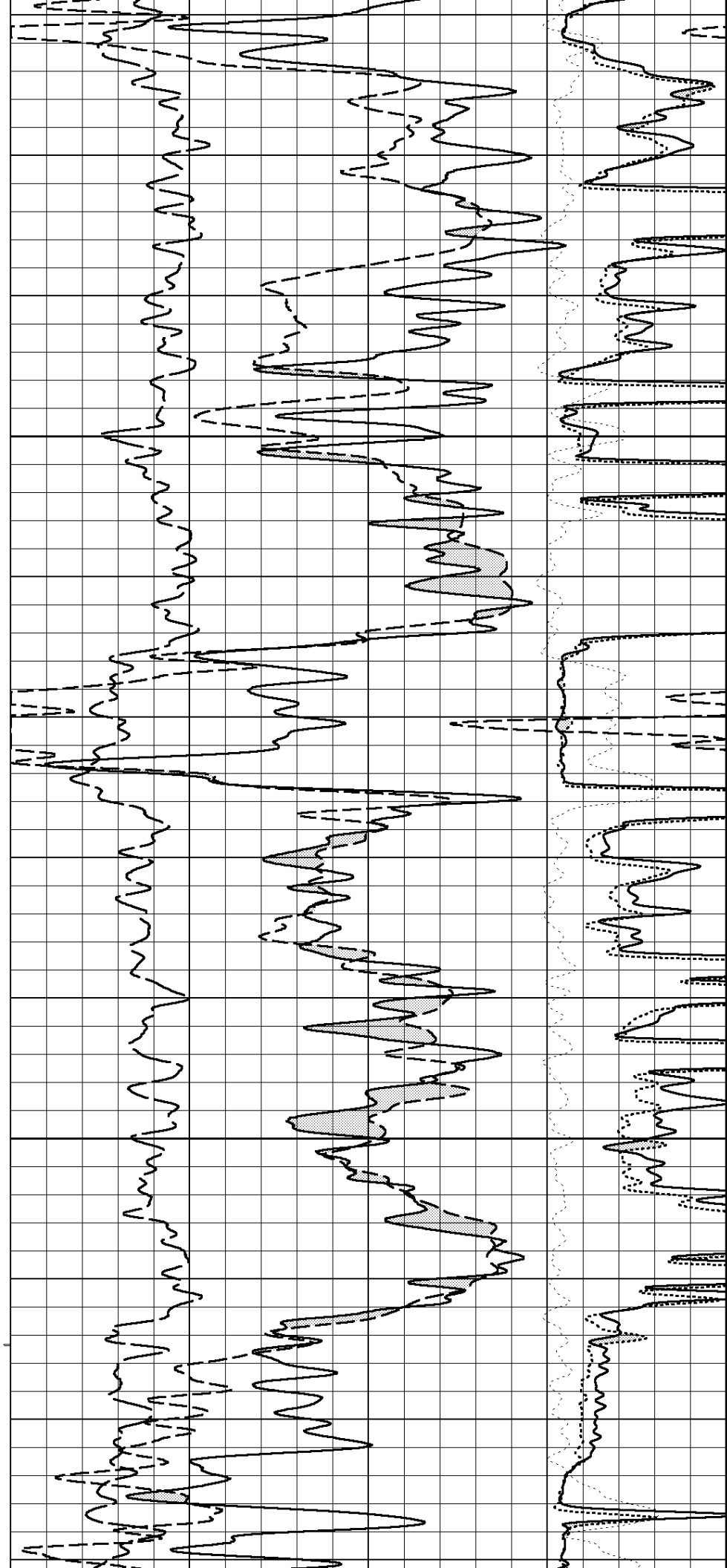
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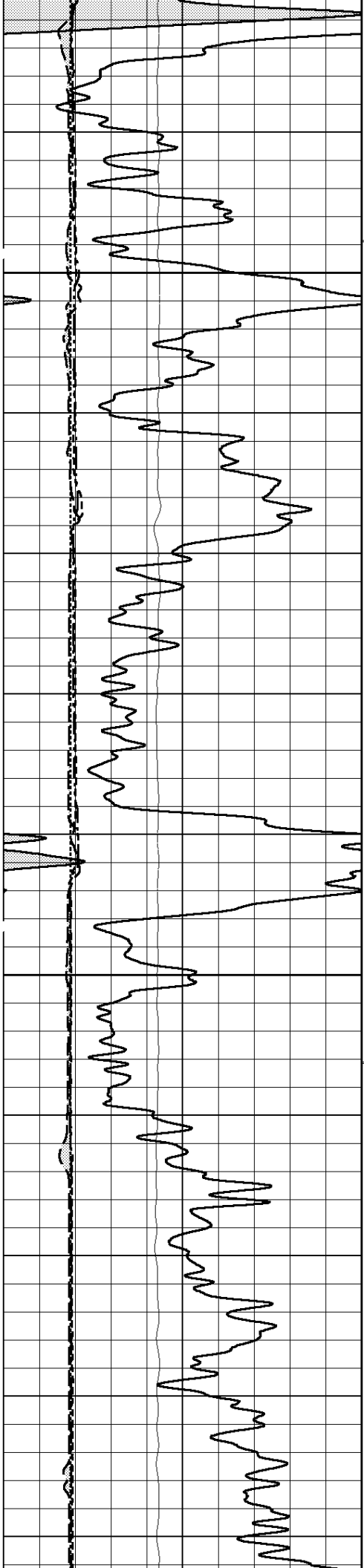




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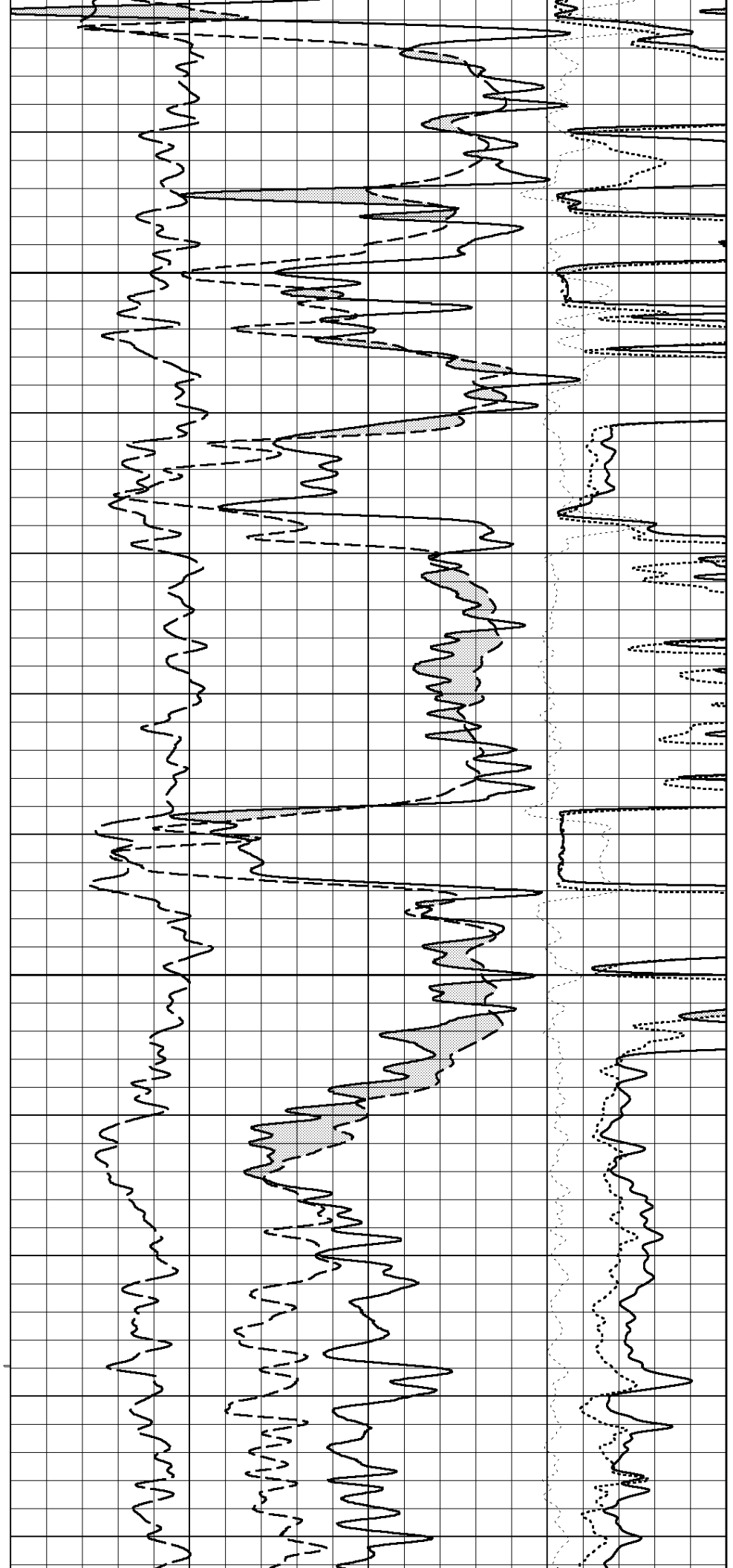


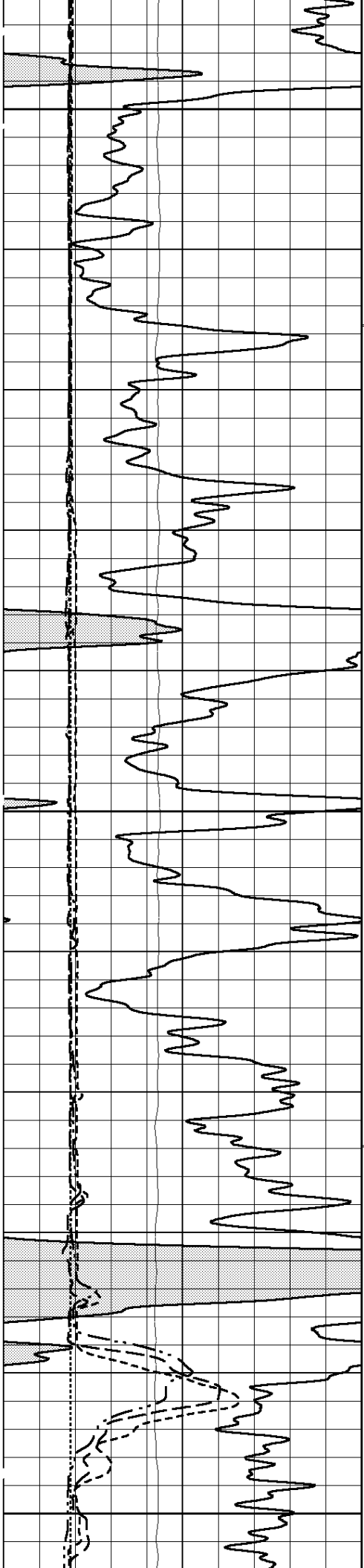


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4775

100

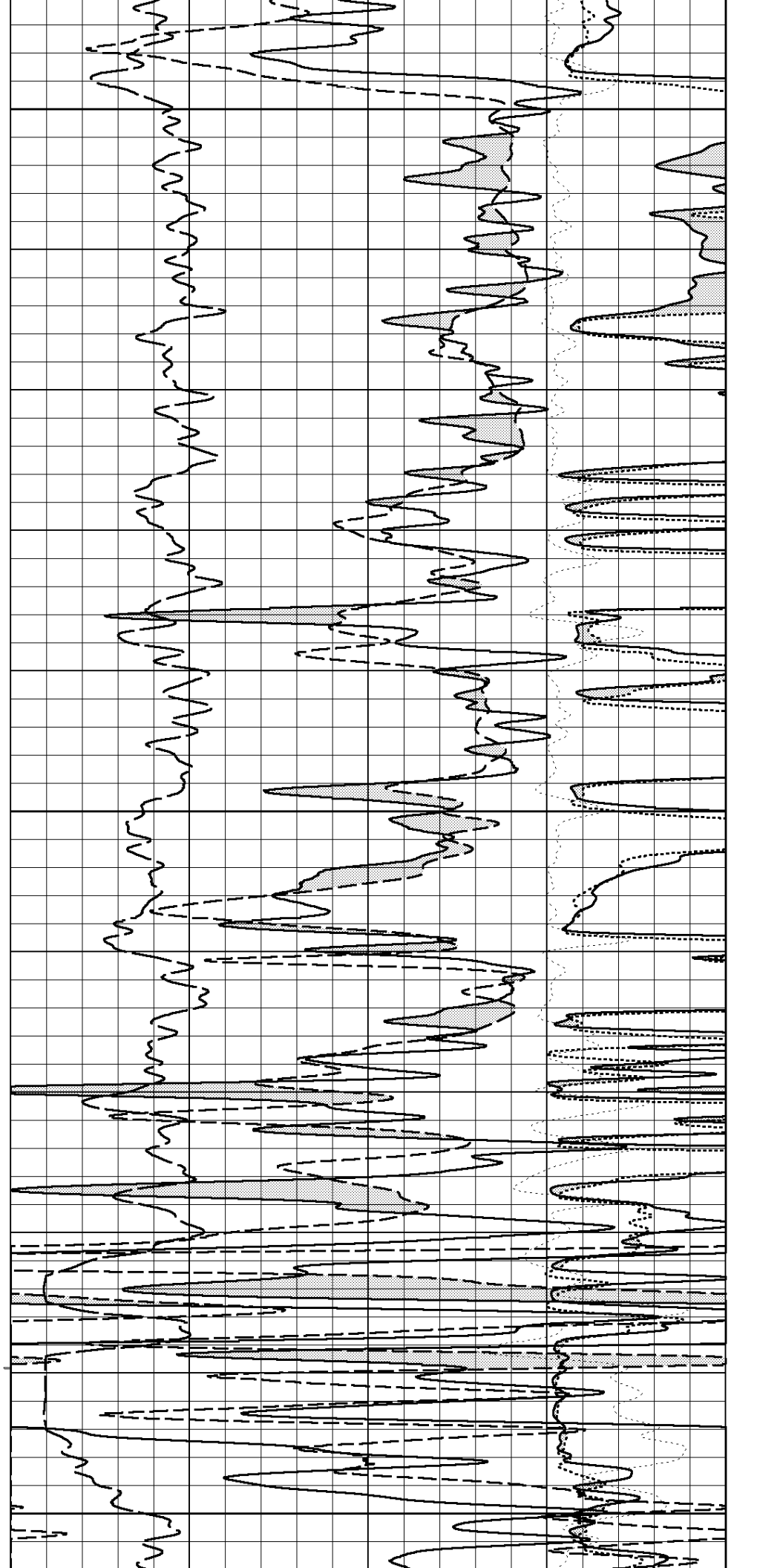


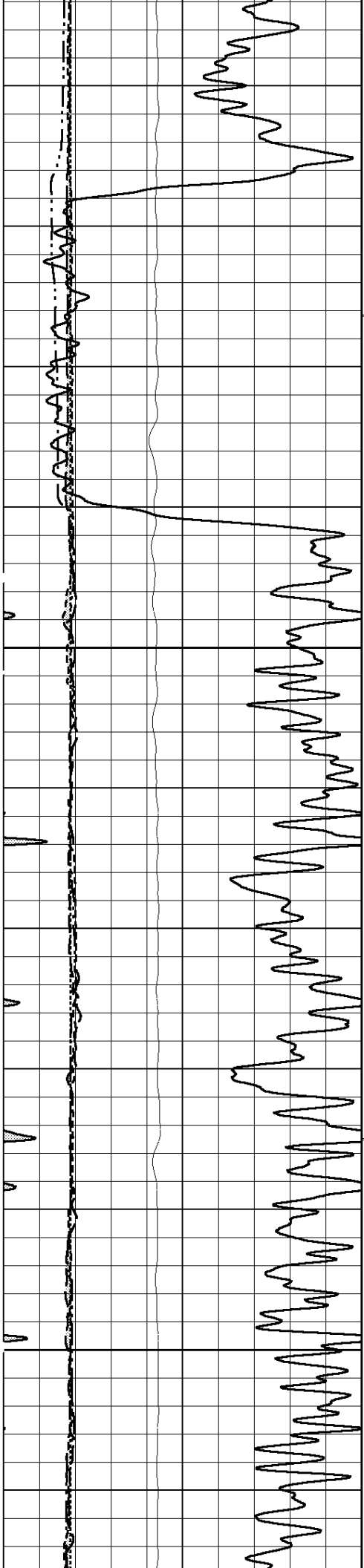


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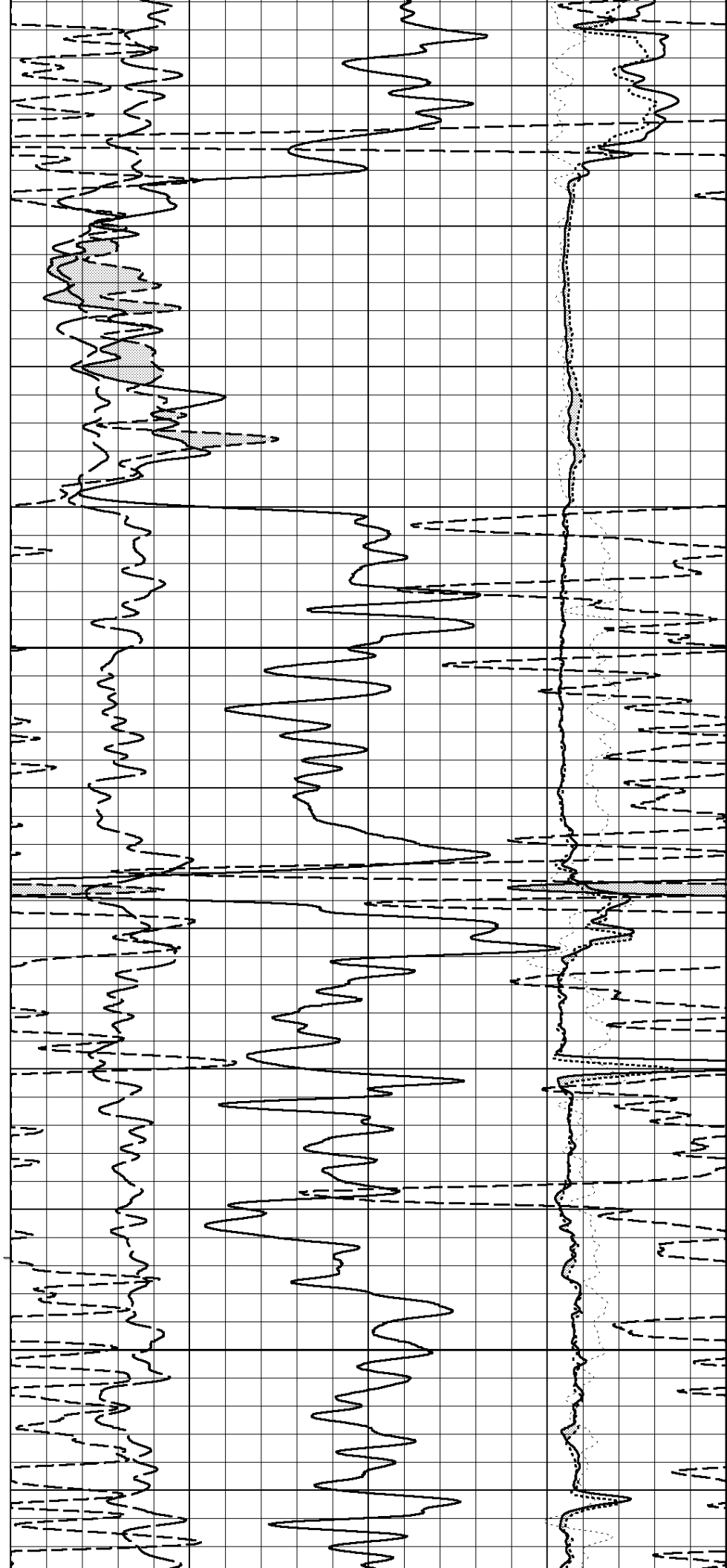
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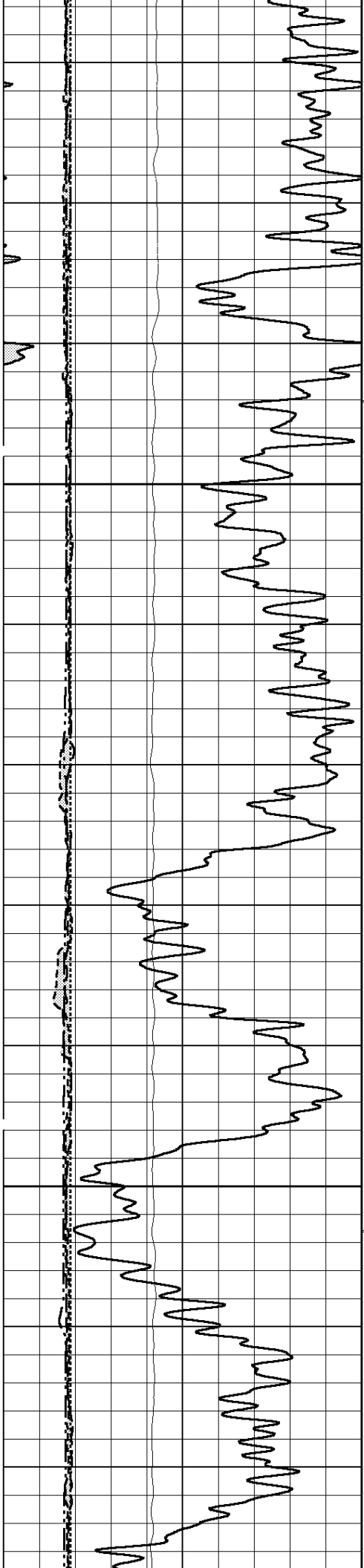




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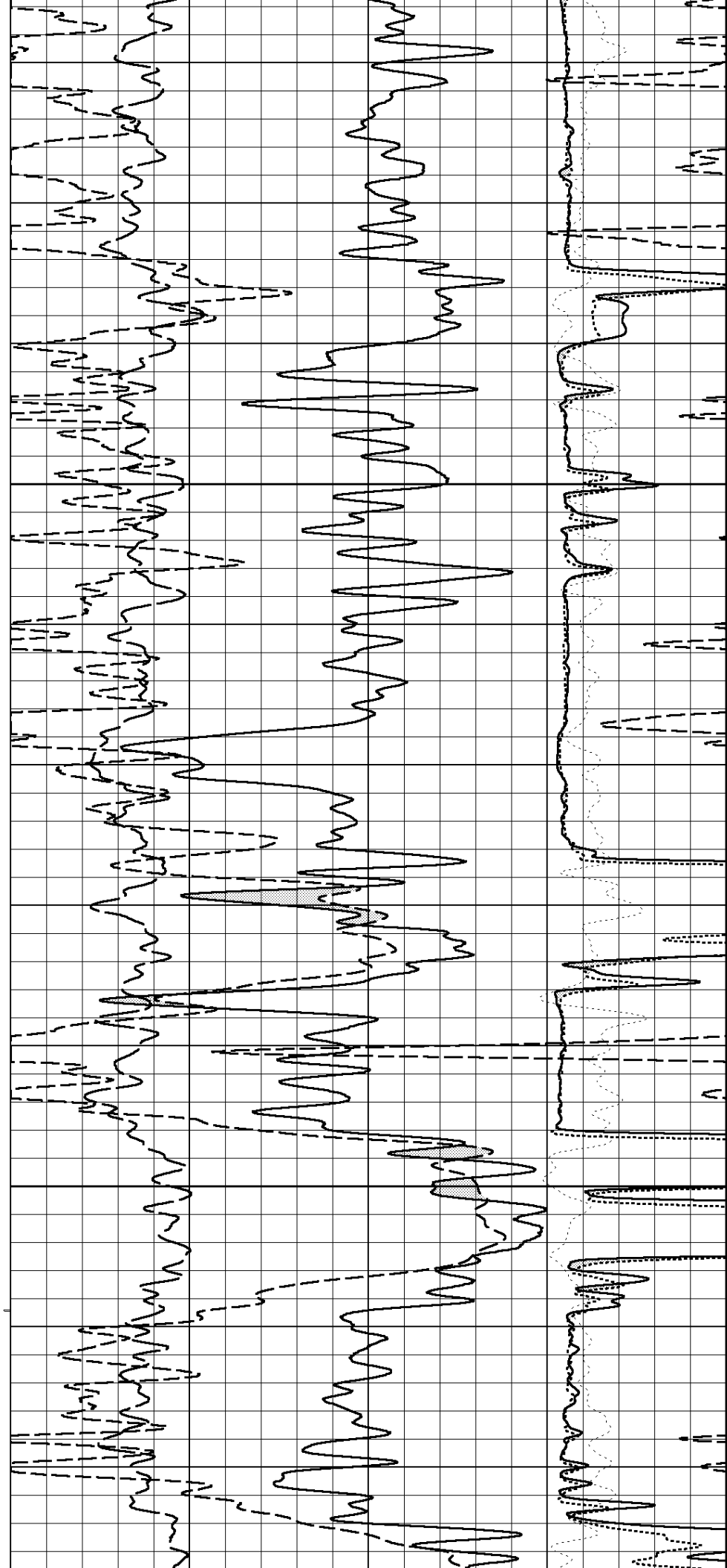
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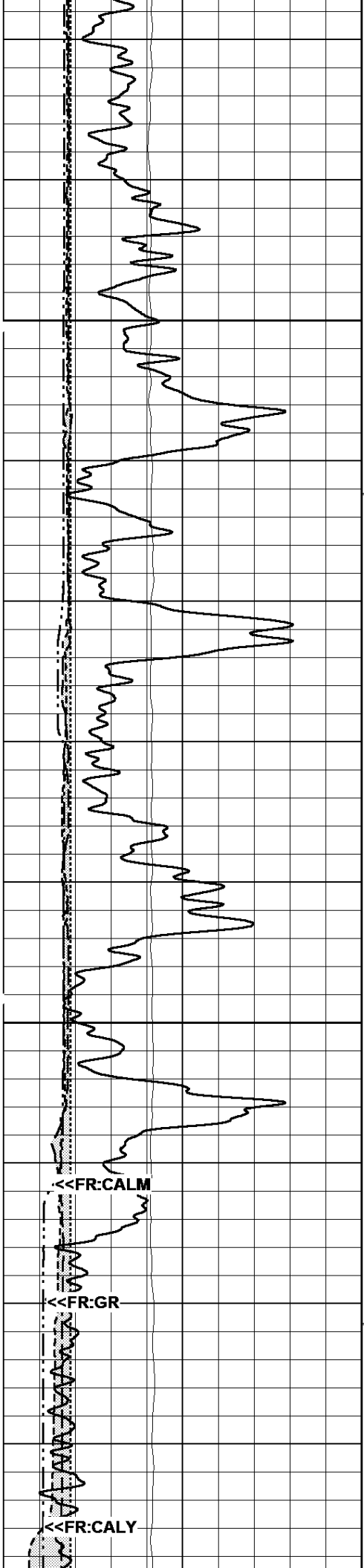




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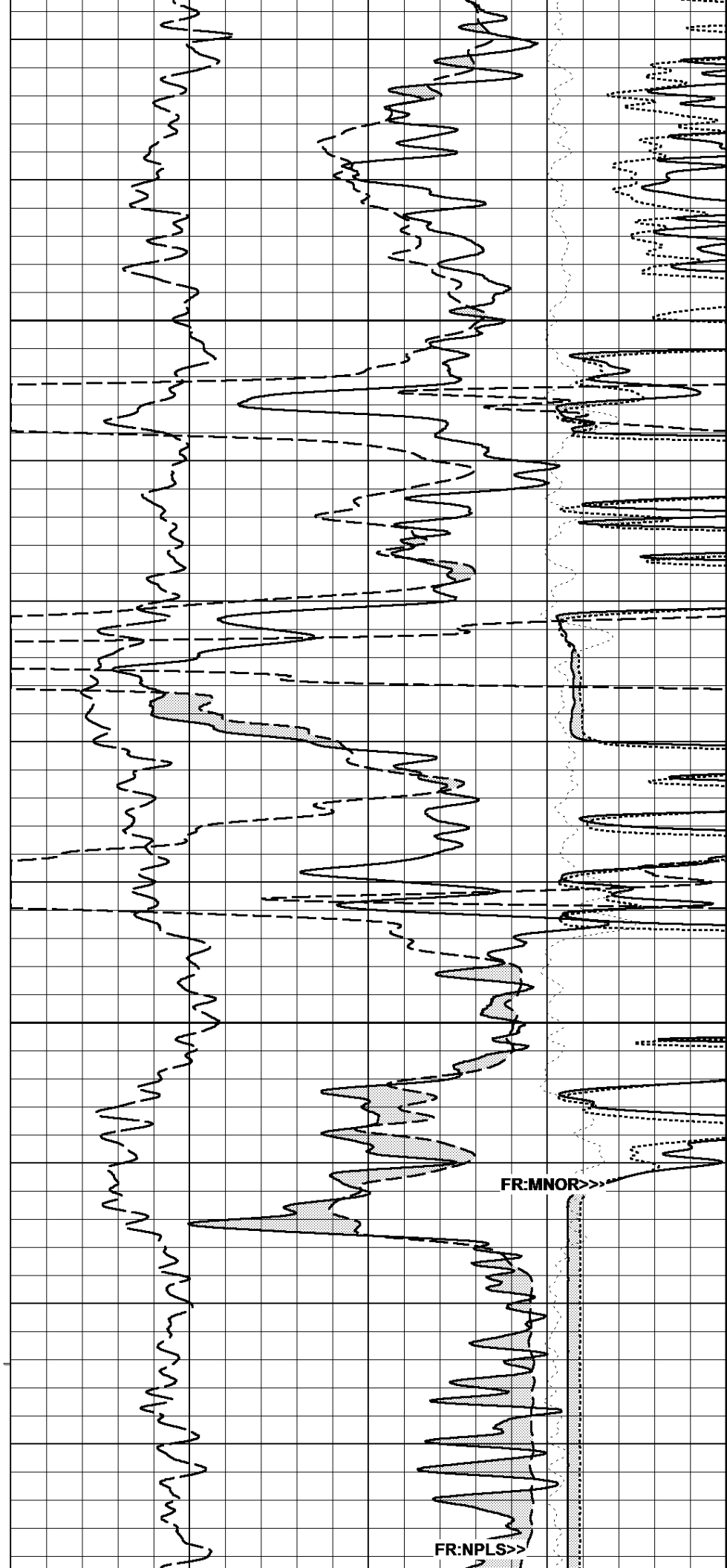
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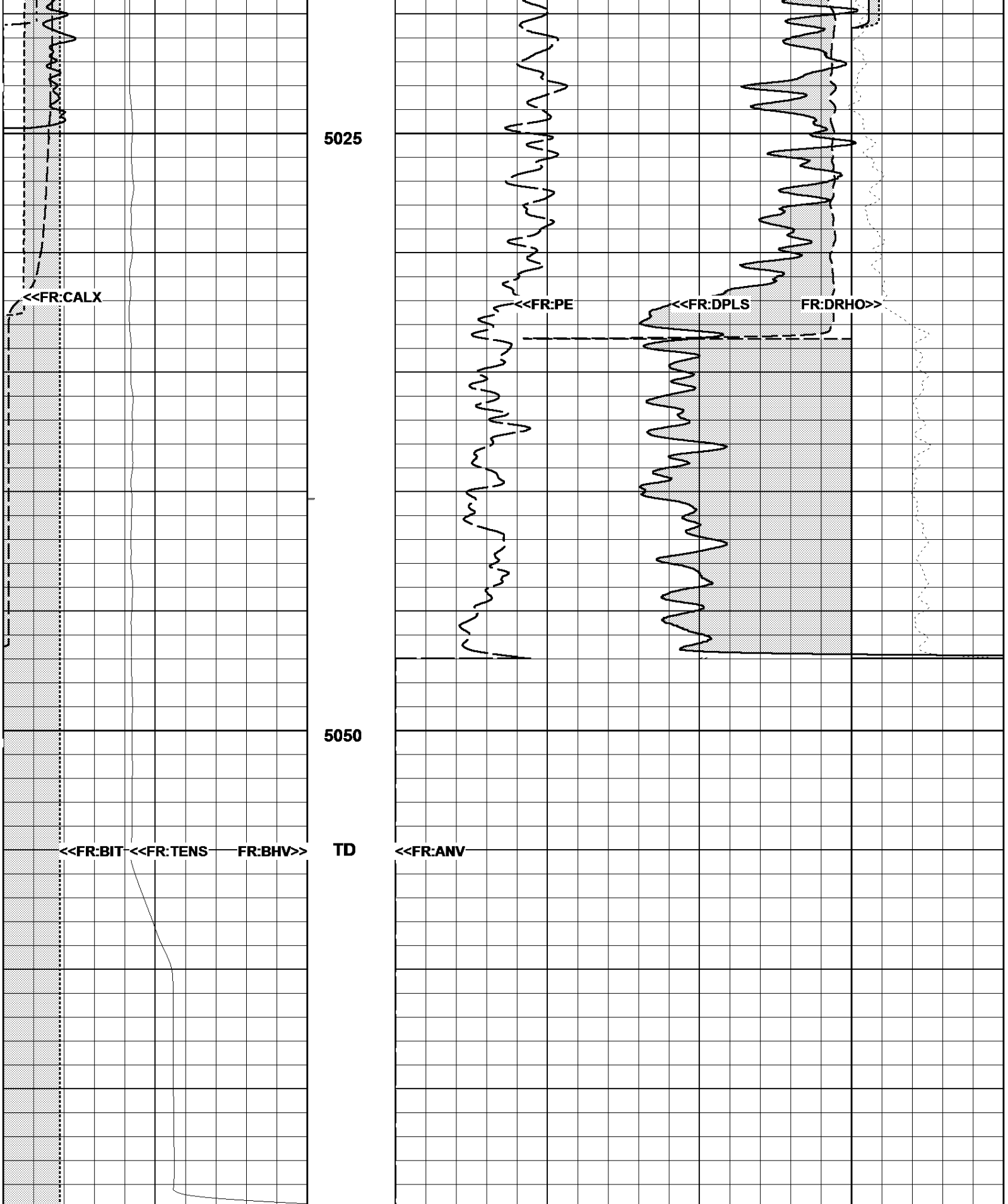
4975

5000



FR:MNOR

FR:NPLS



Gamma Ray (GR)
0. API 150.

X-Caliper (CALX)
6. in 16.

Y-Caliper (CALY)

Neutron-Porosity (NPLS)
30. Limestone-Matrix (V/V) -10.

Density-Porosity (DPLS)
30. Limestone-Matrix (V/V) -10.

Photo Electric (PE)

Delta RHO (DRHO)

GAMMA RAY CALIBRATION

SERIAL NUM
BLANKET NUM

RG3011
1A

MASTER CALIBRATIONS

	BackGrnd	CalVal: 159.000 API	Gain/Offset	CALIBRATION DATE	CALIBRATION TIME
BASE CALS	42.861 - raw	293.877 - raw	0.633 - gain 0.000 - off	M/D/Y> 10/13/2014	H:M:S> 17:52:45

WELL SITE CALIBRATIONS

	BackGrnd	CalVal: 100.000 Mknuts	Gain/Offset	CALIBRATION DATE	CALIBRATION TIME
PRE CAL	-0.059 - raw	26.967 - raw	3.700 - gain	M/D/Y> 11/12/2004	H:M:S> 12:40:27

X CALIPER

SERIAL NUM

RL4101

MASTER CALIBRATIONS

	ZeroVal: 6.000 In	CalVal: 10.000 In	Gain/Offset	CALIBRATION DATE	CALIBRATION TIME
BASE CALS	2686.080 - raw	4769.491 - raw	0.002 - gain 0.843 - off	M/D/Y> 11/11/2014	H:M:S> 4:52:4

Y CALIPER CALIBRATIONS

SERIAL NUM

RN2004

MASTER CALIBRATIONS

	ZeroVal: 6.000 IN	CalVal: 10.000 IN	Gain/Offset	CALIBRATION DATE	CALIBRATION TIME
BASE CALS	1006.372 - raw	1714.147 - raw	0.006 - gain 0.312 - off	M/D/Y> 10/14/2014	H:M:S> 10:36:3

MICRO NORMAL CALIBRATIONS

SERIAL NUM

RM8002

MASTER CALIBRATIONS

	ZeroVal: 0.020 ohmm	CalVal: 10.000 ohmm	Gain/Offset	CALIBRATION DATE	CALIBRATION TIME
BASE CALS	17.490 - raw	393.688 - raw	0.027 - gain -0.444 - off	M/D/Y> 8/26/2014	H:M:S> 16:13:20

MICRO INVERSE CALIBRATIONS

SERIAL NUM

RM8002

MASTER CALIBRATIONS

	ZeroVal: 0.020 ohmm	CalVal: 10.000 ohmm	Gain/Offset	CALIBRATION DATE	CALIBRATION TIME
BASE CALS	16.848 - raw	253.850 - raw	0.042 - gain -0.689 - off	M/D/Y> 8/26/2014	H:M:S> 16:2:27

MICRO CALIPER CALIBRATIONS

SERIAL NUM

RM8002

MASTER CALIBRATIONS

	ZeroVal: 6.000 In	CalVal: 10.000 In	Gain/Offset	CALIBRATION DATE	CALIBRATION TIME
BASE CALS	2117.876 - raw	4150.204 - raw	0.002 - gain 1.832 - off	M/D/Y> 8/26/2014	H:M:S> 17:38:31

Company

RED OAK ENERGY, INC.

Well

BERNING #1-16

Field

WILDCAT

County

WICHITA

State

KANSAS

RECON

COMPENSATED NEUTRON
LITHOLOGY DENSITY
GAMMA RAY X-Y CALIPER
MICROLOG