

Company **MIDWESTERN EXPLORATION COMPANY**  
 Well **MILLS-GOOCH #2-7**  
 Field **GOOCH**  
 County **STEVENS**  
 State **KANSAS**



SEC	TWP	RGE	OTHER SERVICES:	
07	35S	35W	DIL	LDT
Location: 660' FSL & 1650' FWL		W2 SE SW	CNL	SONIC
SURF. SAME	AP#:	015-189-22835	ELEVATIONS K.B. 3027 G.L. 3017 D.F. 3026	
Permanent Datum	Ground Level	Elev	3017	
Log Measured From	Kelly Bushing			
Drilling Measured From	Kelly Bushing			

Date	25-JUN-2014	
Run No.	ONE	
TD Driller	6710	ft
TD RECON	6713	ft
Bot Logged Interval	6712	ft
Top Logged Interval	3400	ft
Casing Depth Driller	8 5/8	in. @ 1685
Casing Depth RECON	8 5/8	in. @ 1644/1714
Bit Size	7 7/8	in.
Drilling Fluid Type	WBM	
Density	9.15	ppg
Viscosity	7.6	cm/30min
Fluid Loss	PH	57 sec/qt
Flowline	10.0	strip
Source Of Sample	Flowline	
RM @ Measured Temp	1.976	Ohmm @ 75
RMF @ Measured Temp	1.482	Ohmm @ 75
RMC @ Measured Temp	2.470	Ohmm @ 75
RM @ MRT	1.093	Ohmm @ 141
Max Recorded Temp	141	DegF
Time Drilling Stopped	25-JUN-2014	03:30
Time Circulation Stopped	25-JUN-2014	10:20
Time Logger On Bottom	25-JUN-2014	15:31
Unit Num	S409	OKLAHOMA CITY, OK
Location	OKLAHOMA CITY, OK	
Recorded By	H. GARCIA	
Witnessed By	MR. B. DAUGHERTY	MR. 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.

**RIG INFORMATION**

Drill Contr/Rig#	VAL ENERGY DRLG. #2
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**GENERAL REMARKS SECTION**

FIRST RUN IN THE HOLE  
 CNL AND LDT LOGGED IN A LIMESTONE MATRIX  
 TOP MARK - 791.2, BOTTOM MARK - 6599.9  
 CNL/LDT LOGGED MATRIX: 2.71 g/cc.

CHLORIDES: 1700 mg/l  
 LCM: 10 lb/bbl

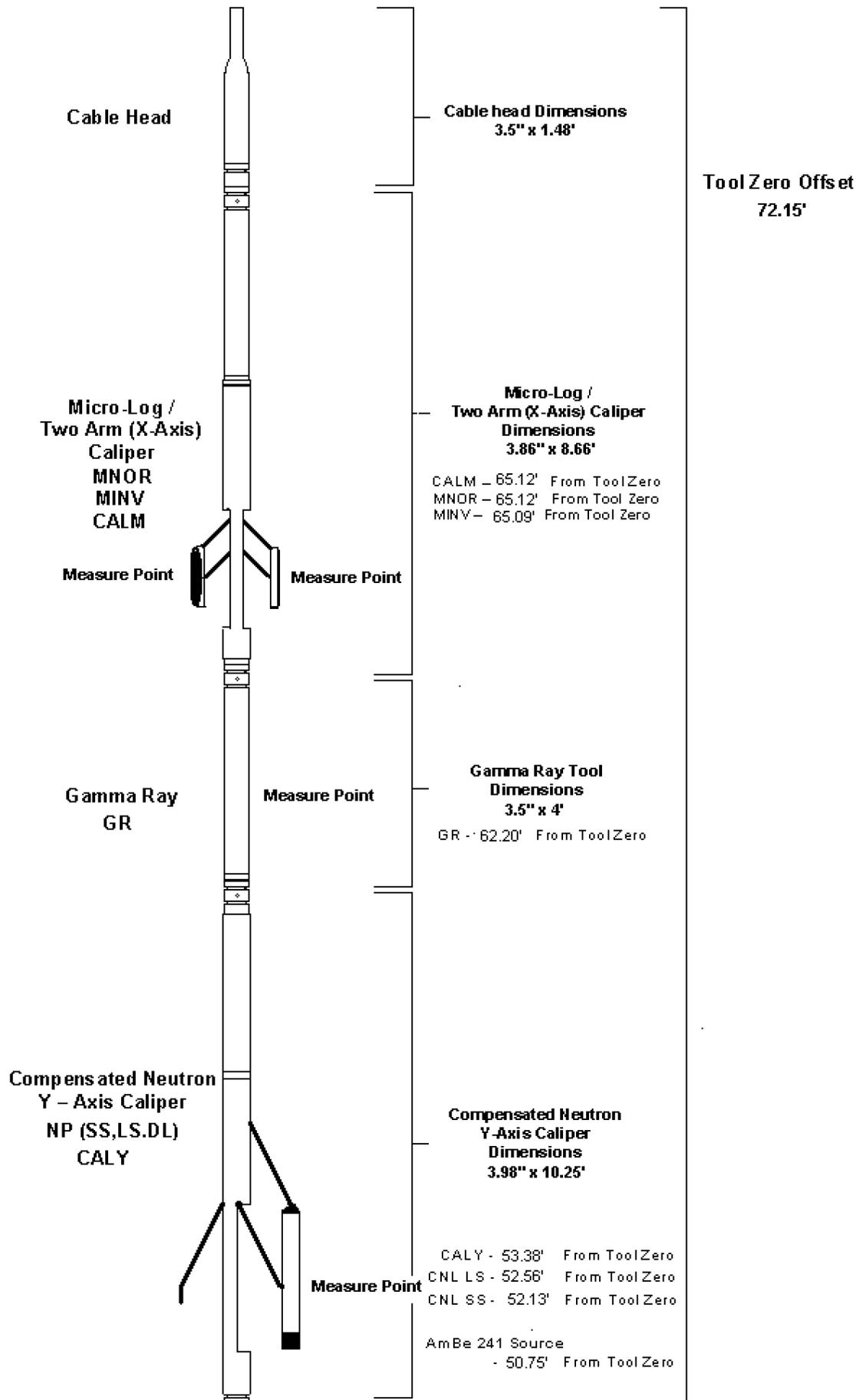
THANK YOU FOR USING RECON PETROTECHNOLOGIES LTD.

AHV CALCULATED ON 5.5" PROD. CASING

BOTTOM JOINT PARTED OFF OF SURFACE CASING  
 STRING AND FELL 32'

CREW: M. CALLENTINE, K. HELDERMON

**DUAL INDUCTION – SP / BHC SONIC /  
 GAMMA RAY / LITHO-DENSITY / X CALIPER  
 COMPENSATED NEUTRON / Y-CALIPER  
 MICRO - LOG / M-CALIPER**



**Digital Telemetry**

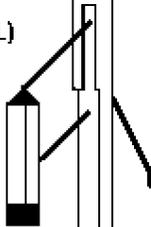
**Digital Telemetry Section  
Dimensions  
3.5" x 3.15'**

**Tool String  
Length Total  
75.85'**

**First Reading  
To  
Last Reading  
63.42'**

**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 - 39.44' From ToolZero  
LDT w1 -  
LDT w2 - 39.17' From ToolZero  
LDT w3 -  
LDT w4 -  
LDT SS - 38.68' From ToolZero  
CS 137 - 38.19' From ToolZero

**Borehole  
Compensated  
Sonic**

**SP(SS,LS,DL)  
DT  
TTI  
VDL  
TT  
Measure Point  
Tool First Reading  
Point**

**T-1  
Transmitter 1**

**Borehole Compensated Sonic  
Tool Dimensions  
3.5" x 15.75'**

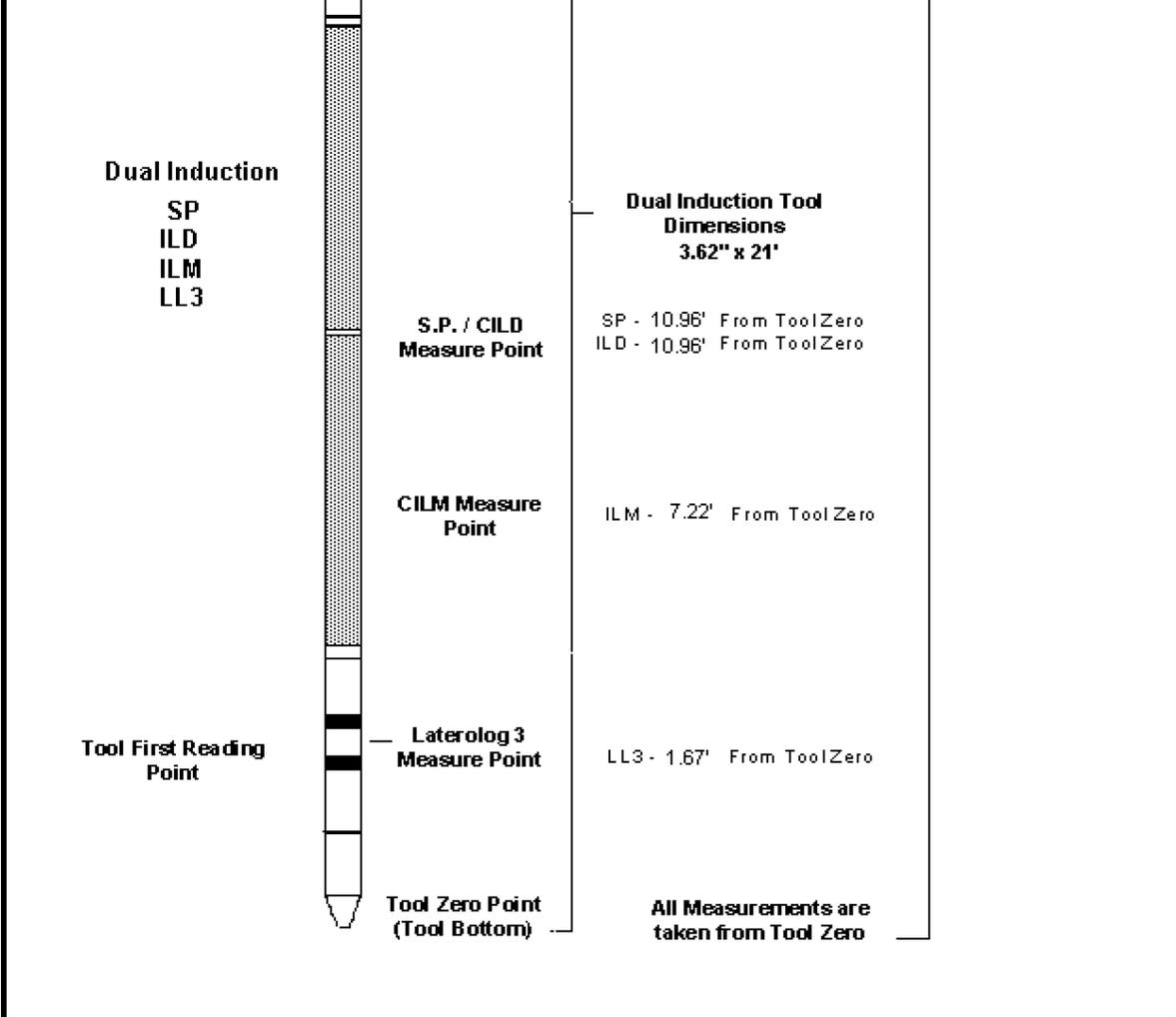
T1R1 - 32.87' From ToolZero  
T1R2 - 31.36' From ToolZero

**R-1  
Receiver 1**

**R-2  
Receiver 2**

T2R1 - 28.54' From Tool Zero  
T2R2 - 27.89' From Tool Zero

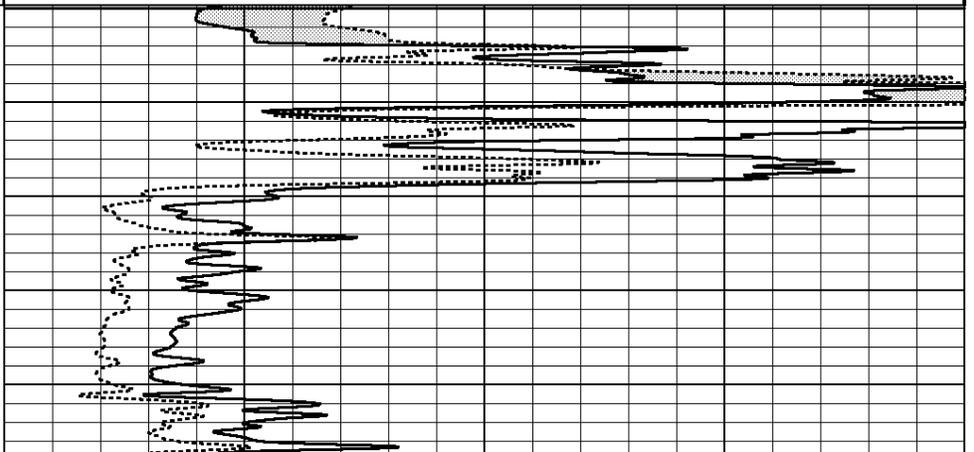
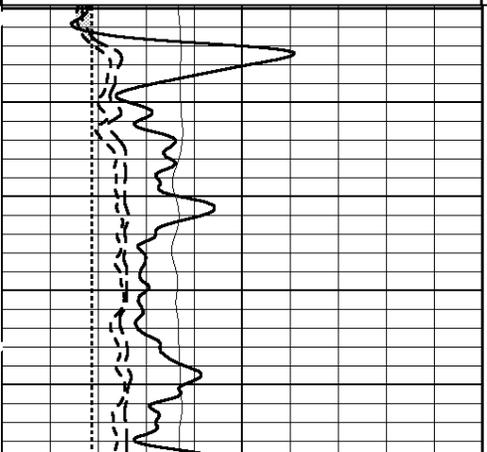
**T-2  
Transmitter 2**

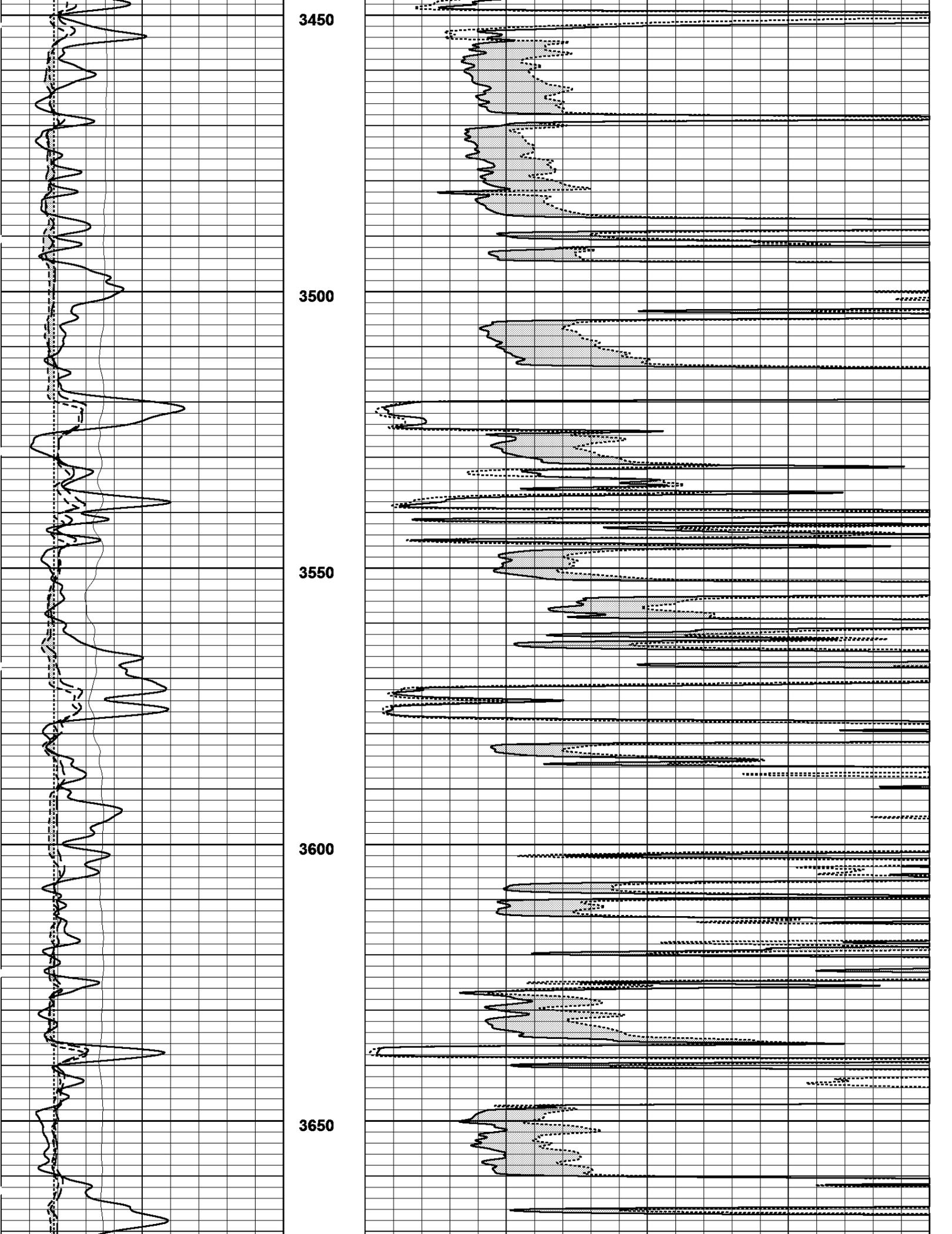


06/25/2014 **MAIN PASS (5"/100ft)** Log UP - (VER 11.19)  
18:36:46 => End Time End Depth=> 3399.90 Feet

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

<b>Micro-Normal{2"} (MNOR)</b>		
0.	ohms	40.
<b>Micro-Inverse{1"} (MINV)</b>		
0.	ohms	40.





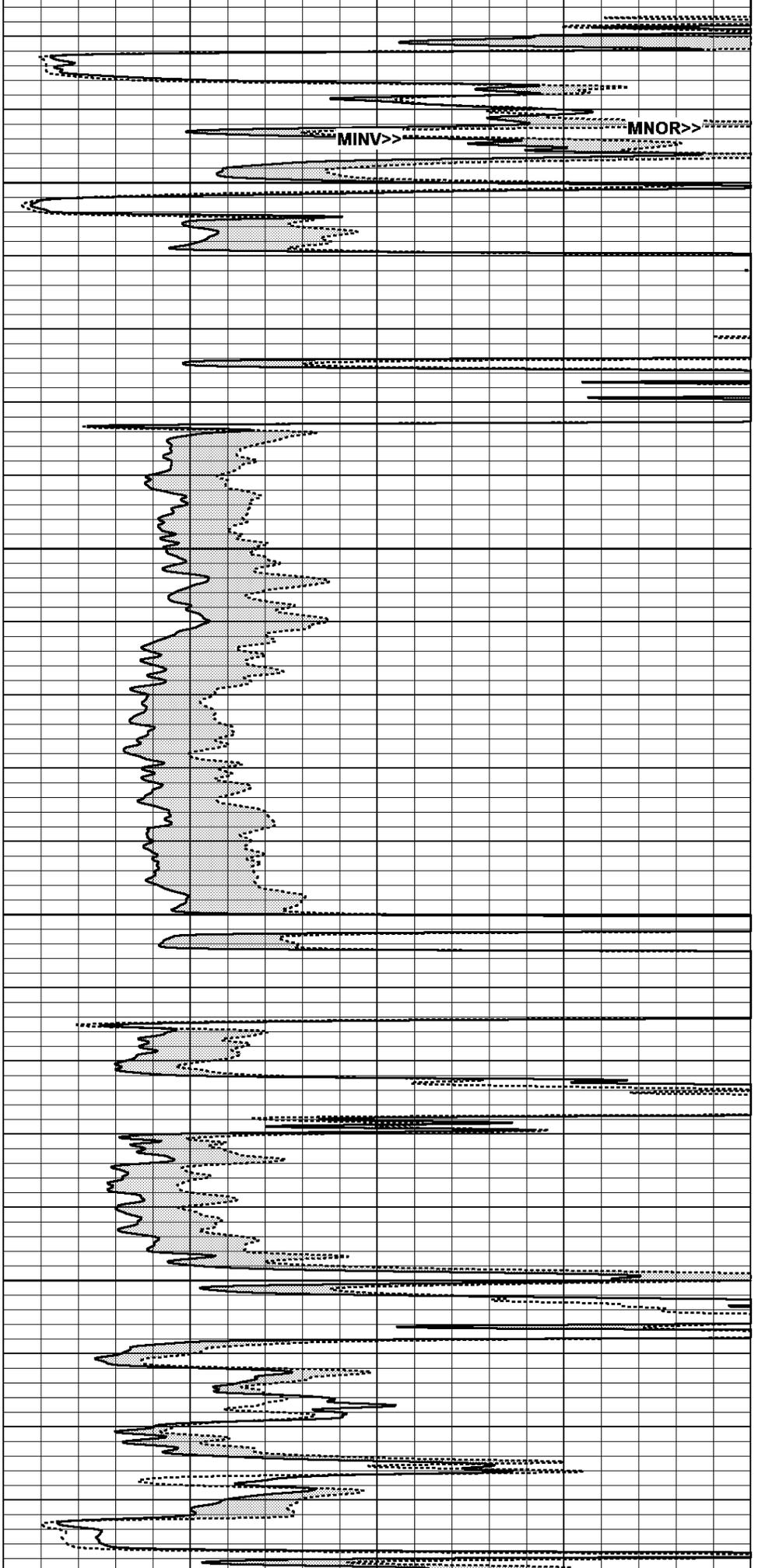


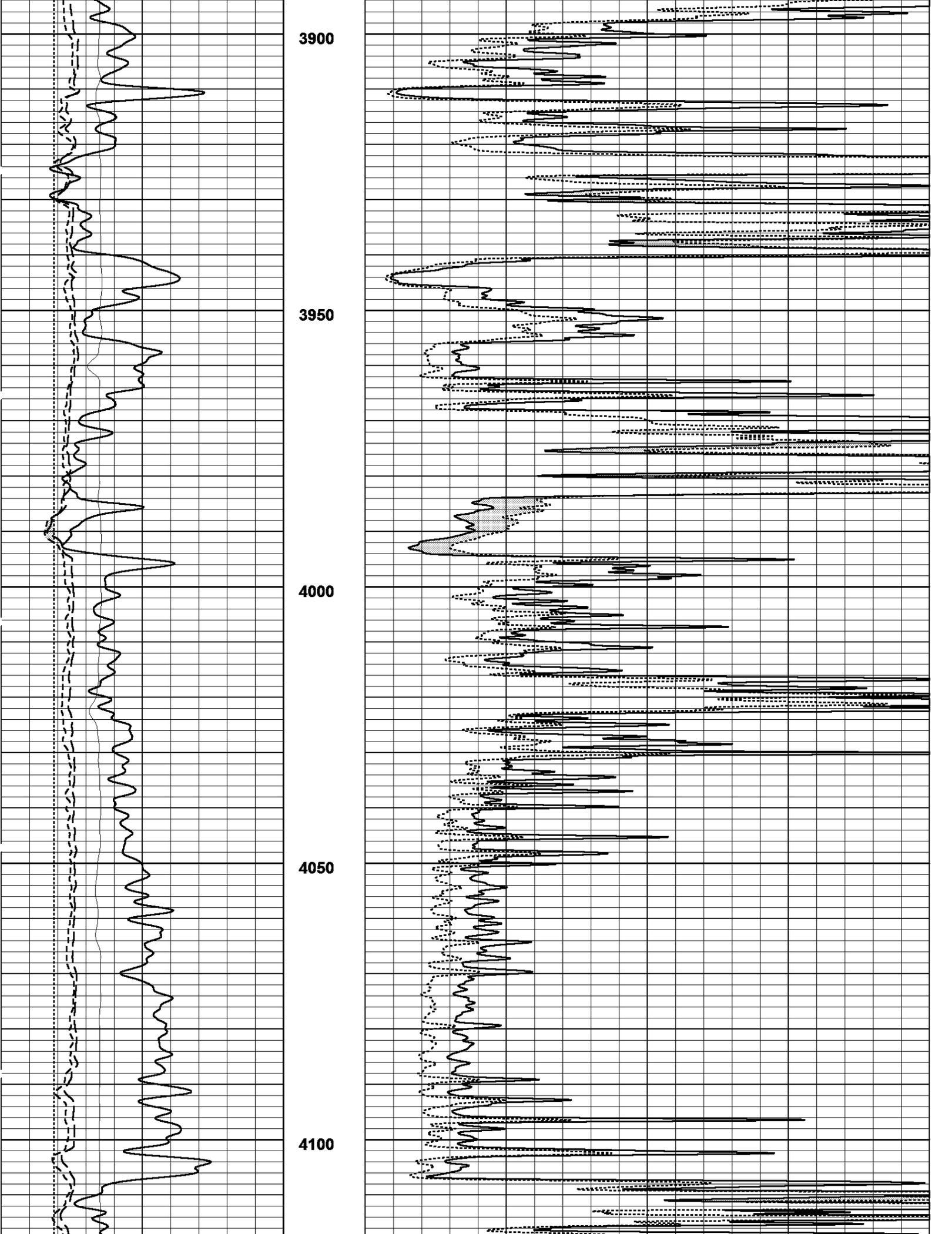
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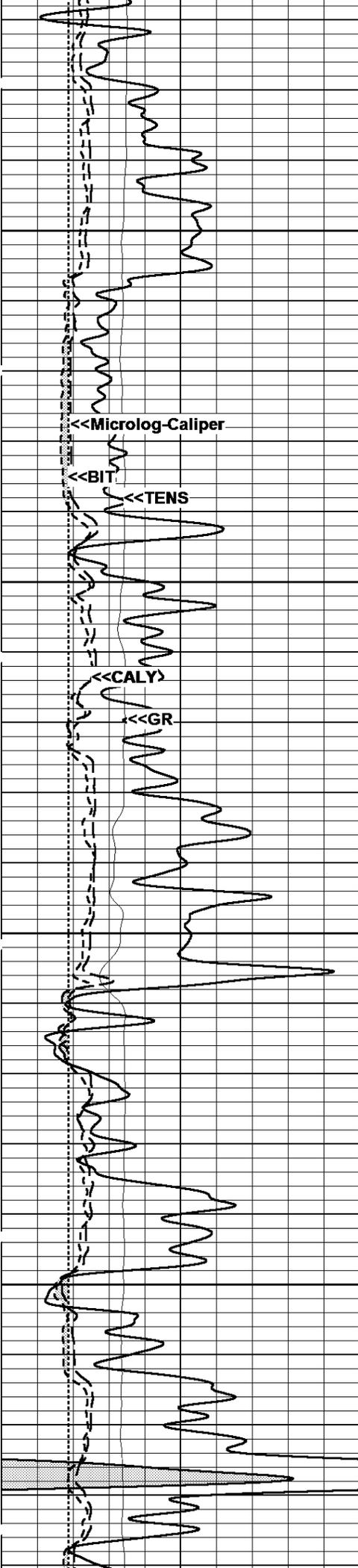
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3800

3850





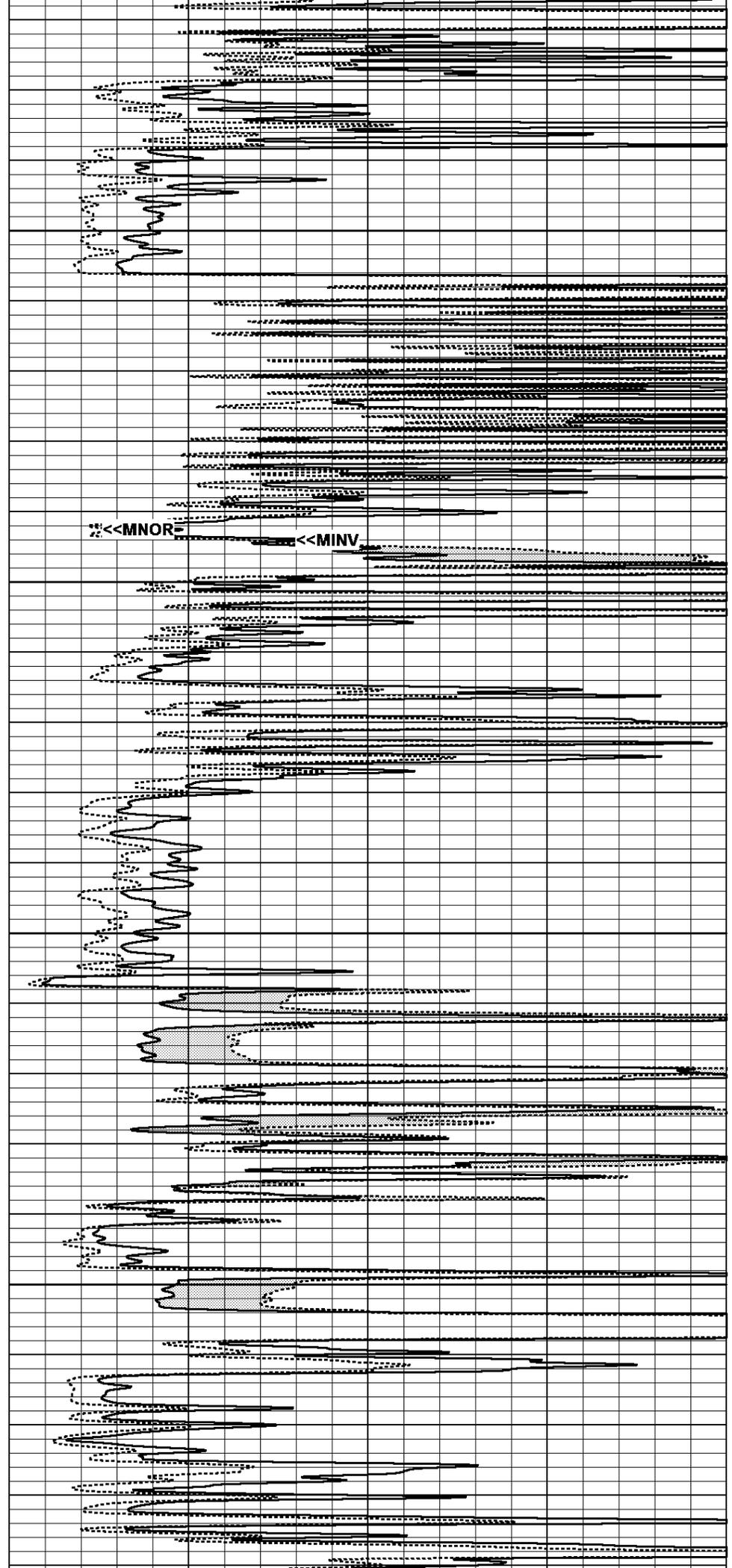


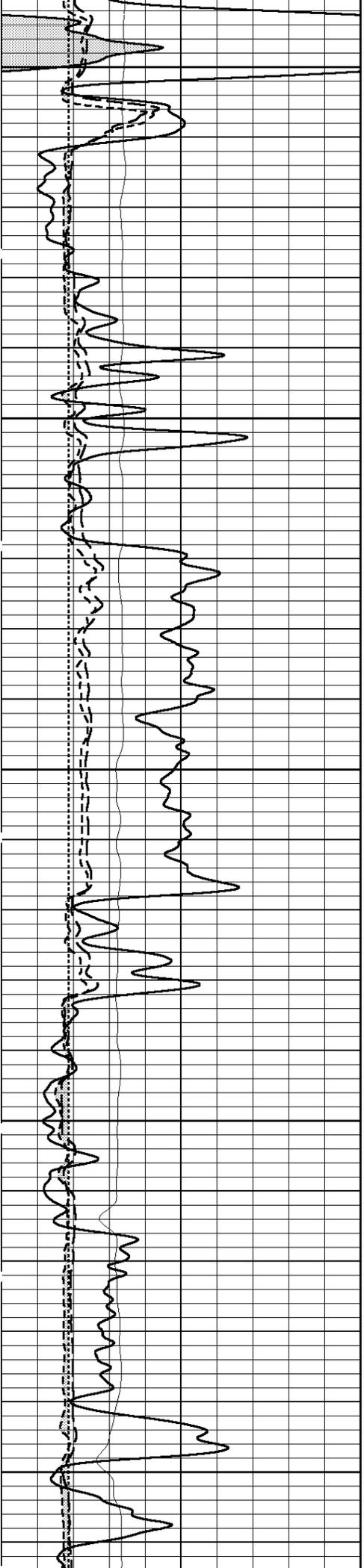
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4200

4250

4300





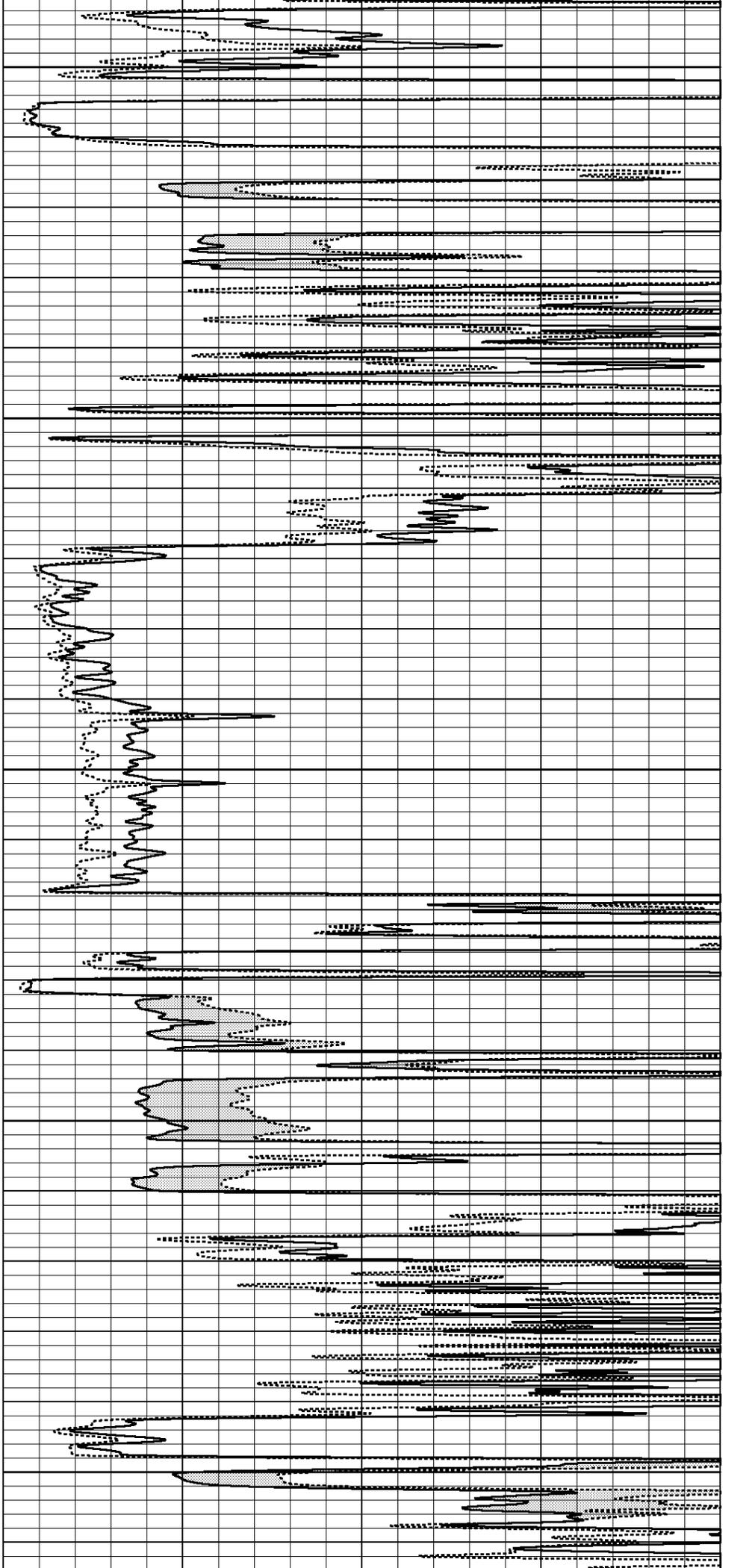
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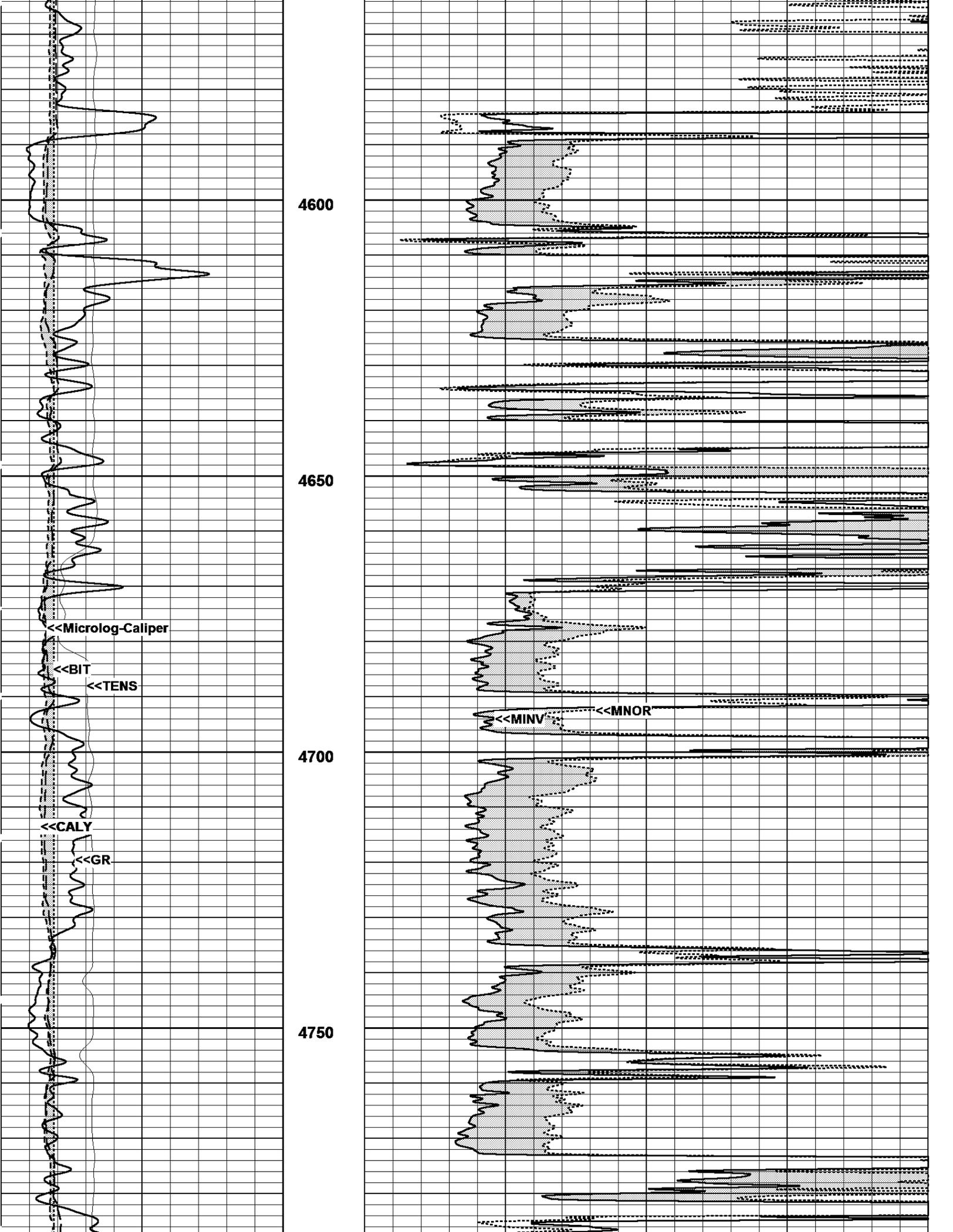
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4450

4500

4550





4600

4650

4700

4750

<<Microlog-Caliper

<<BIT

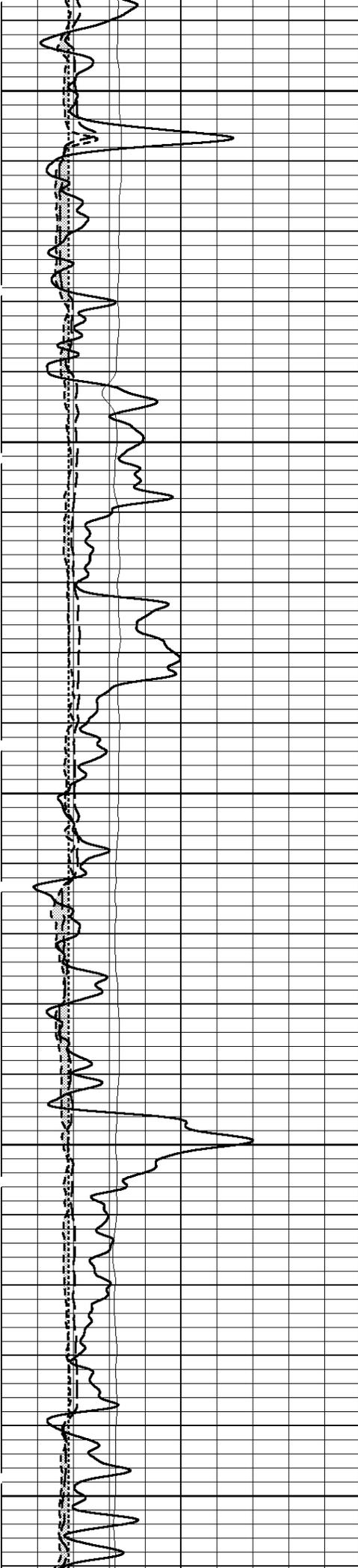
<<TENS

<<CALY

<<GR

<<MINV

<<MNOR



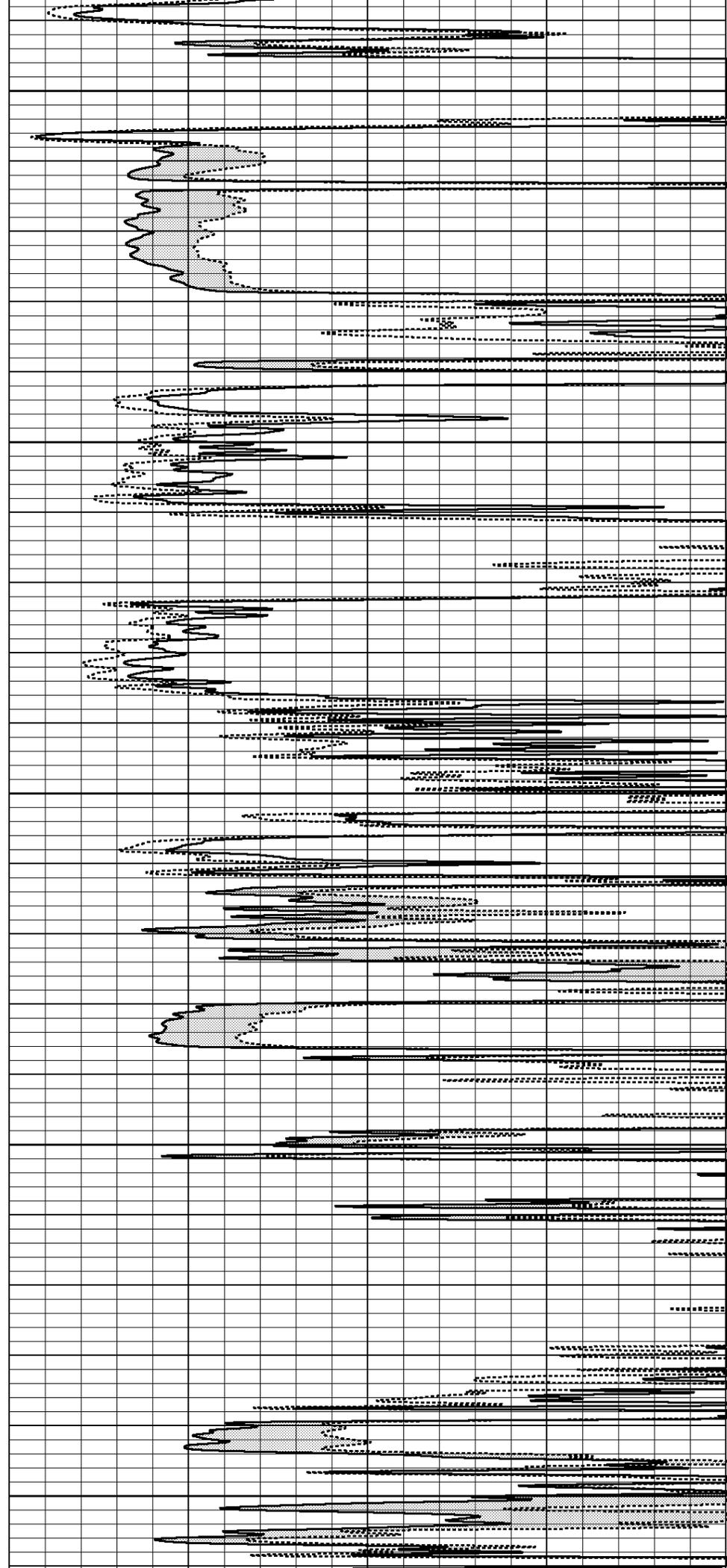
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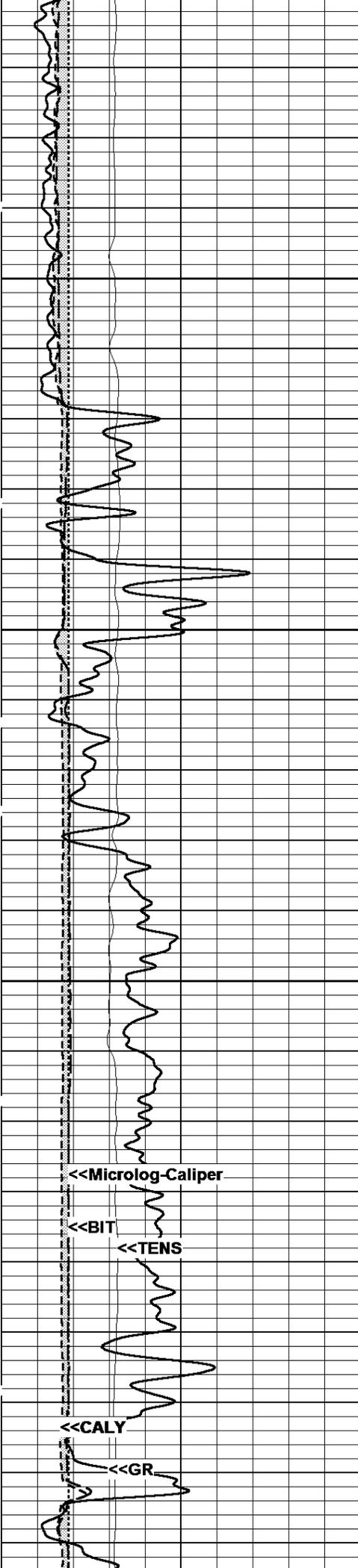
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4900

4950

5000



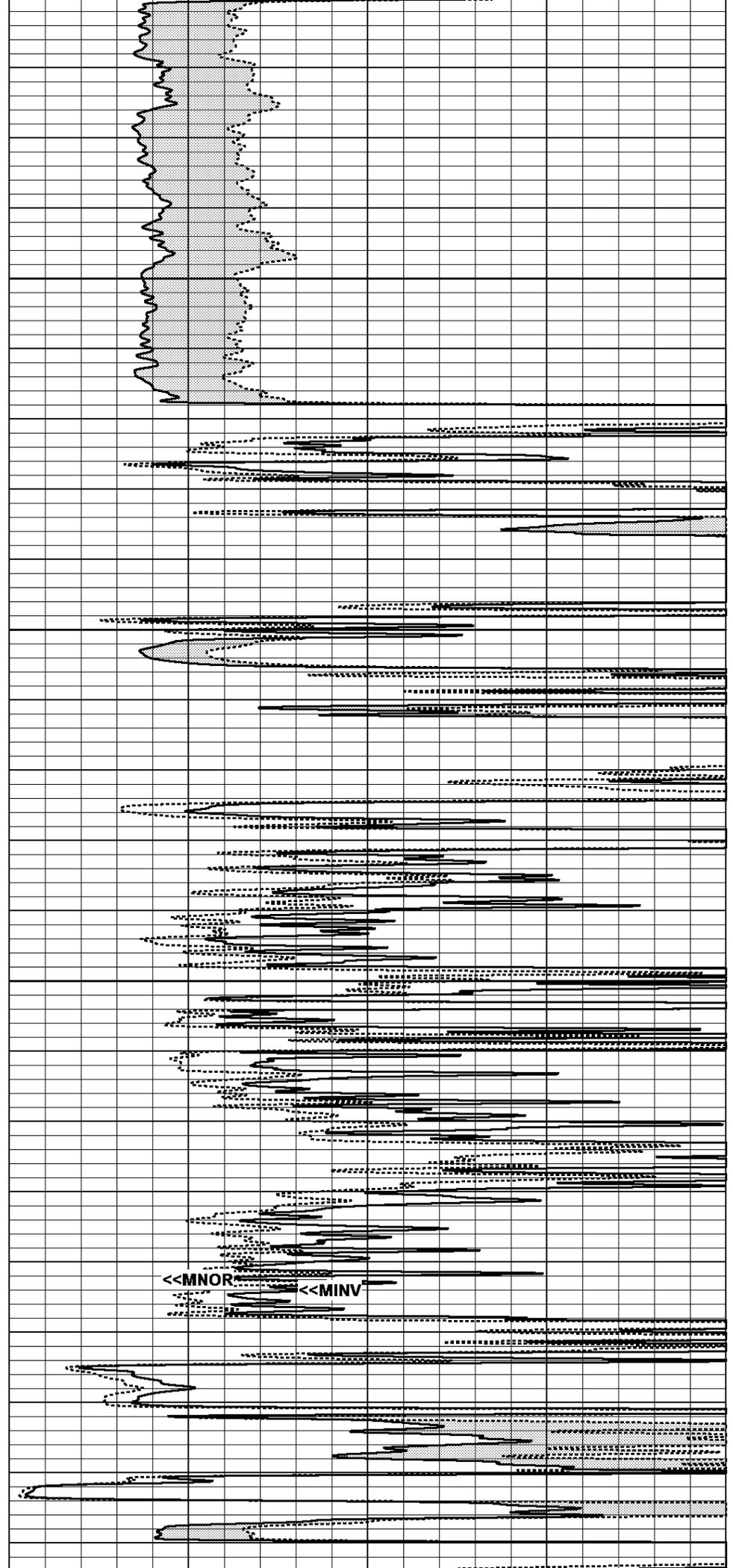


5050

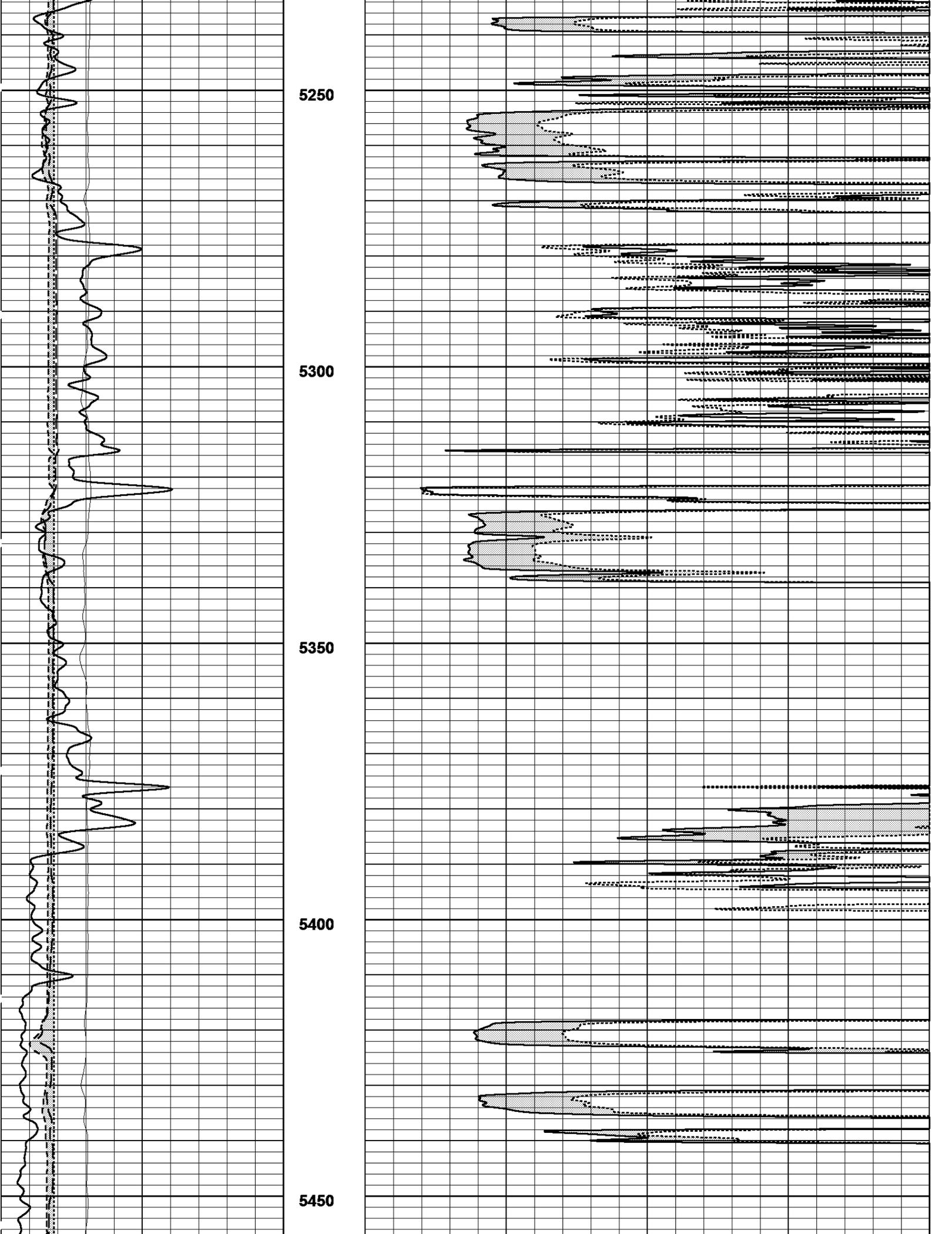
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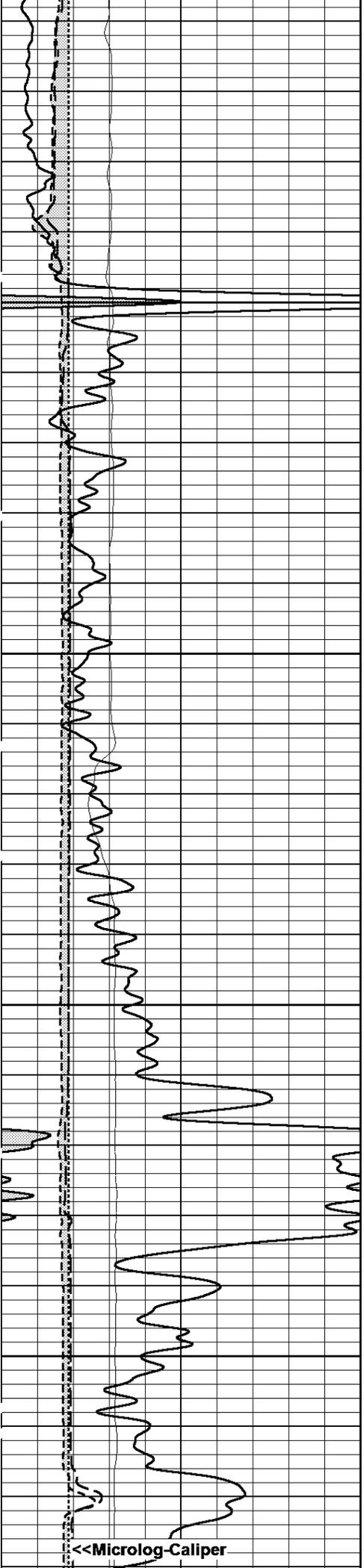
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5200



<<MNOR <<MINV



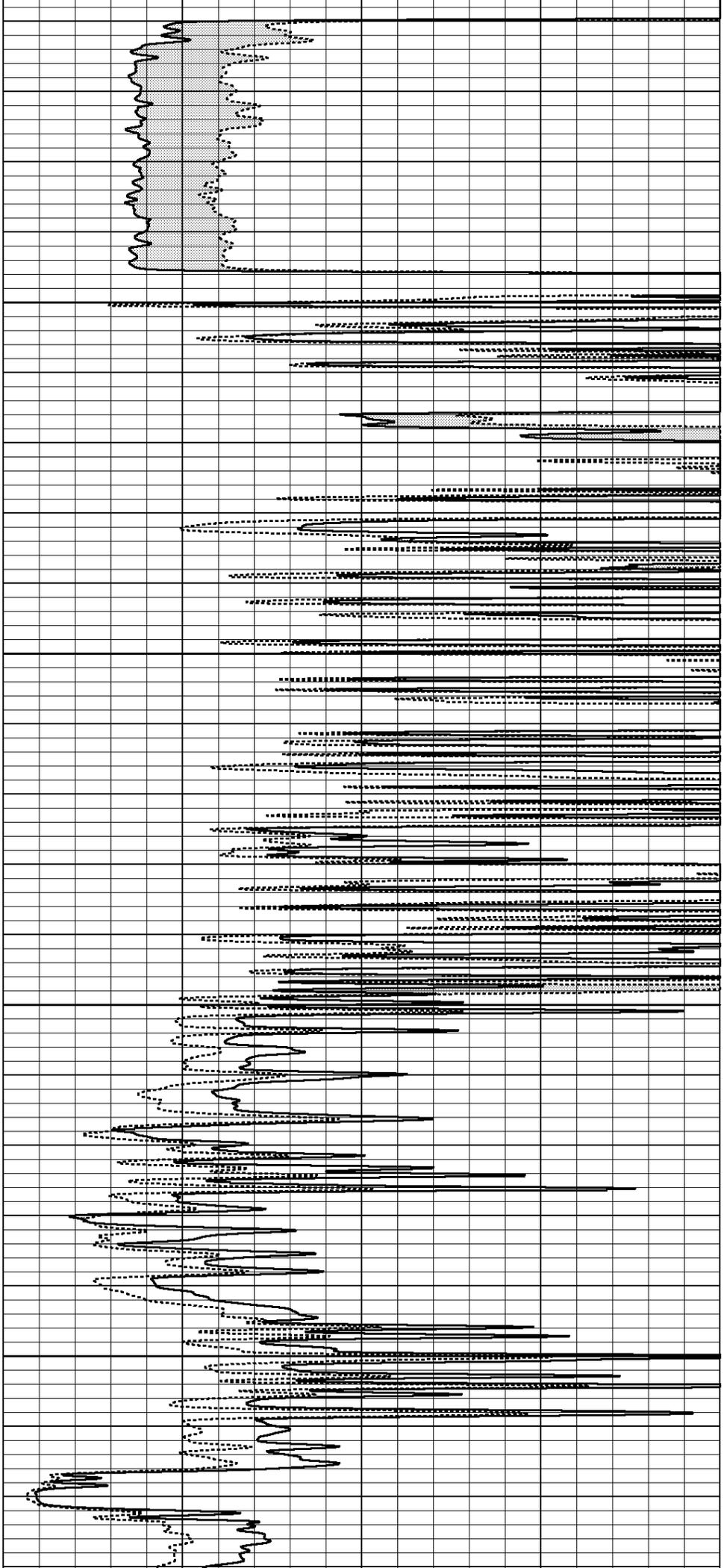


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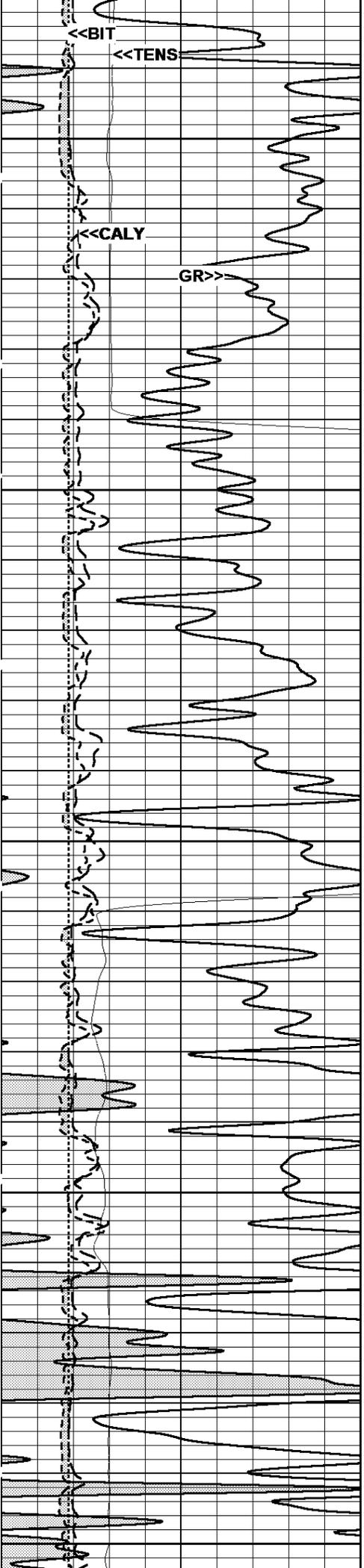
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5600

5650



<<Microlog-Caliper



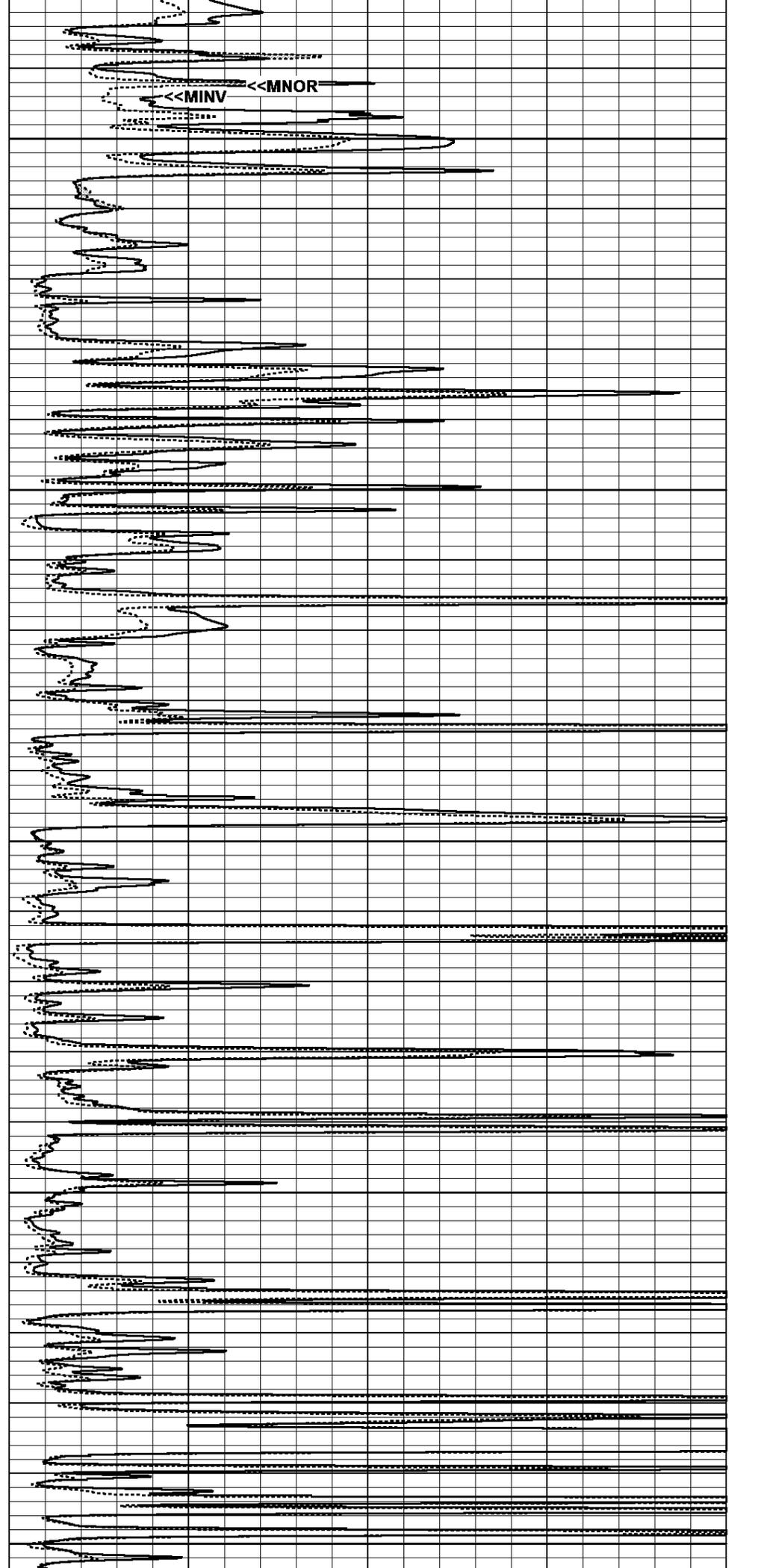
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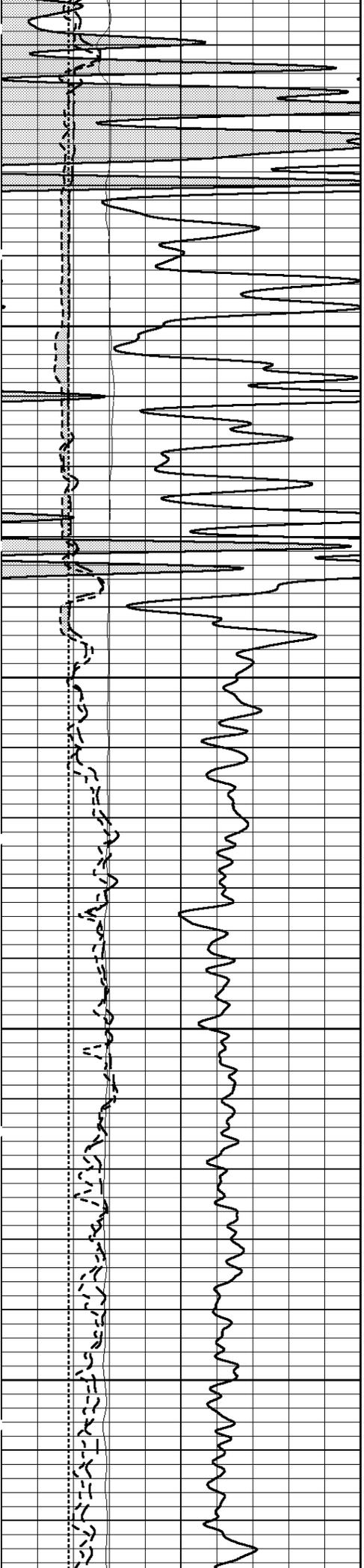
5750

5800

5850

5900



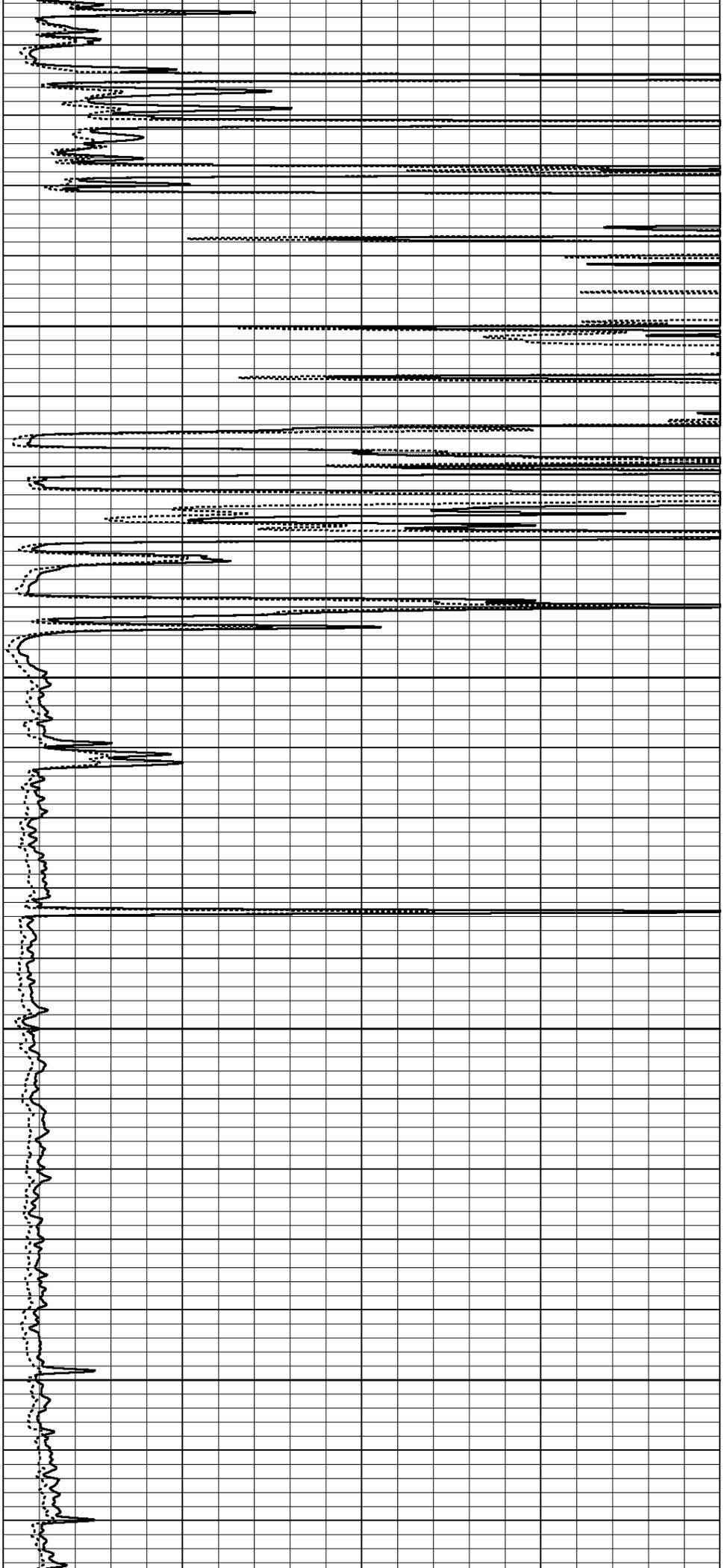


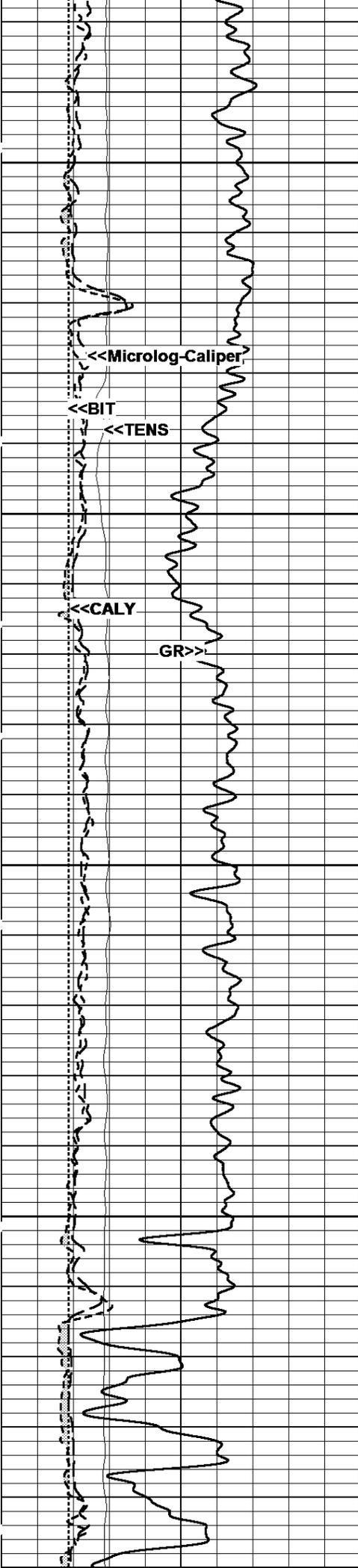
5950

6000

6050

6100





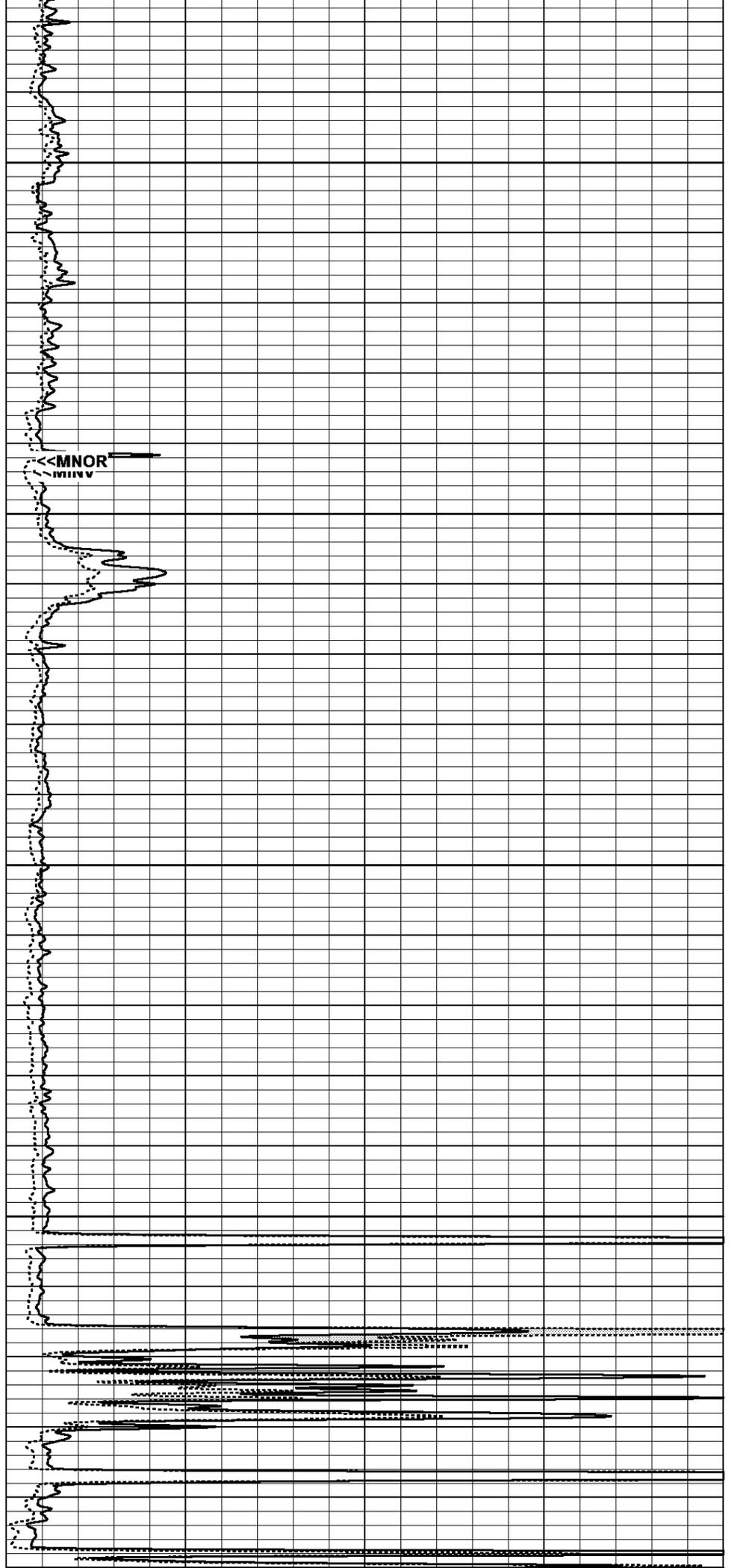
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6200

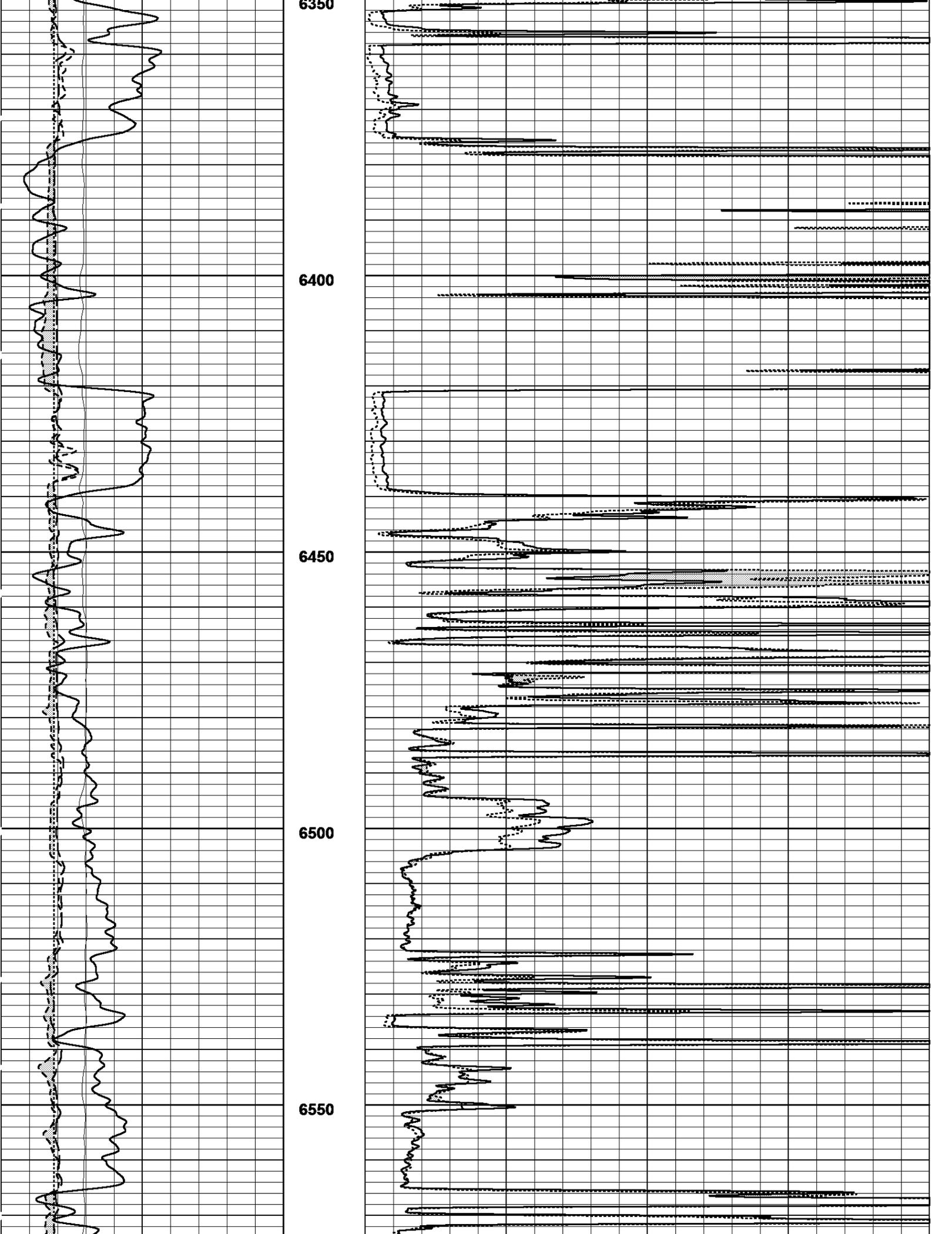
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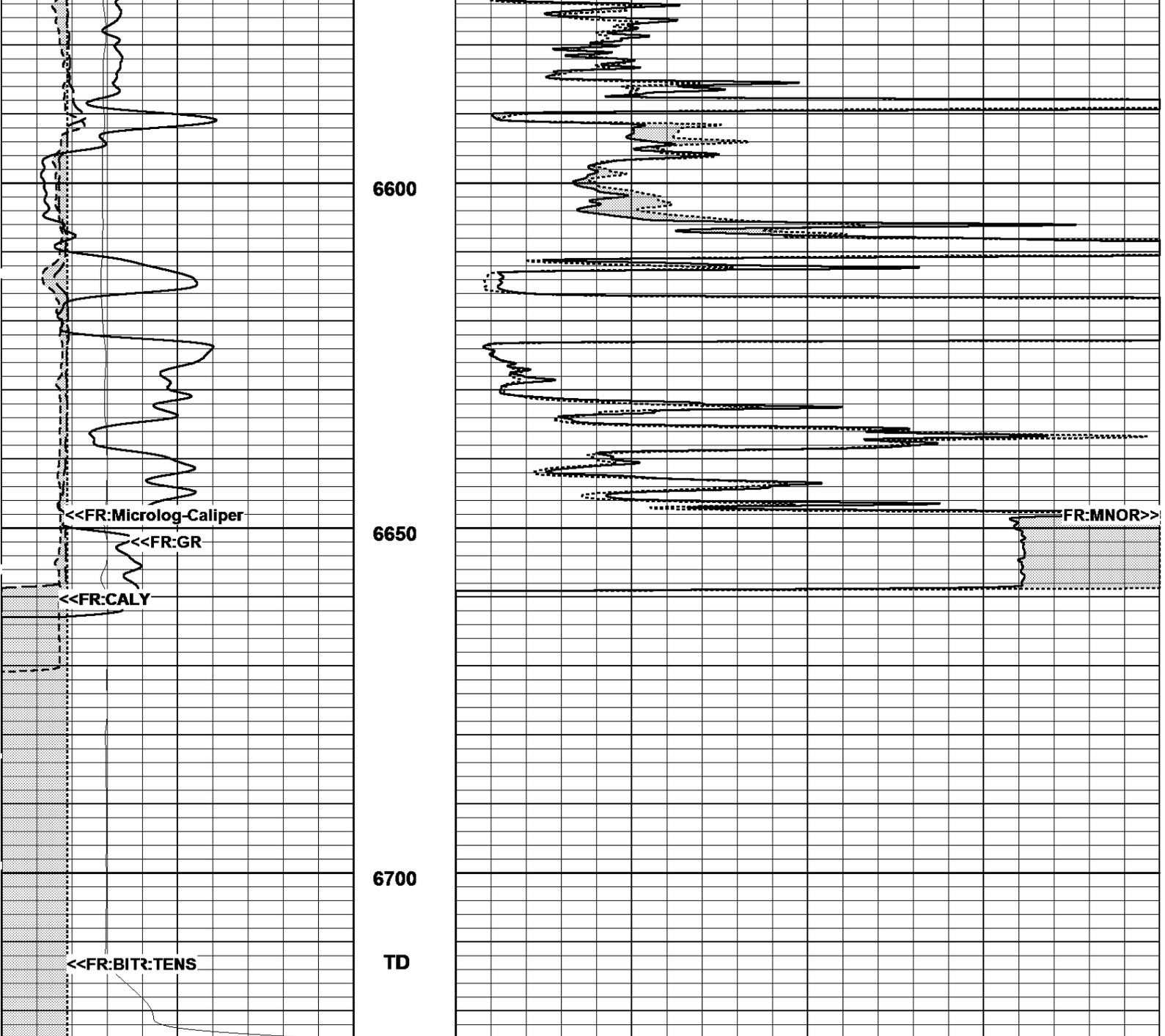
6300

6350



<<MNOR





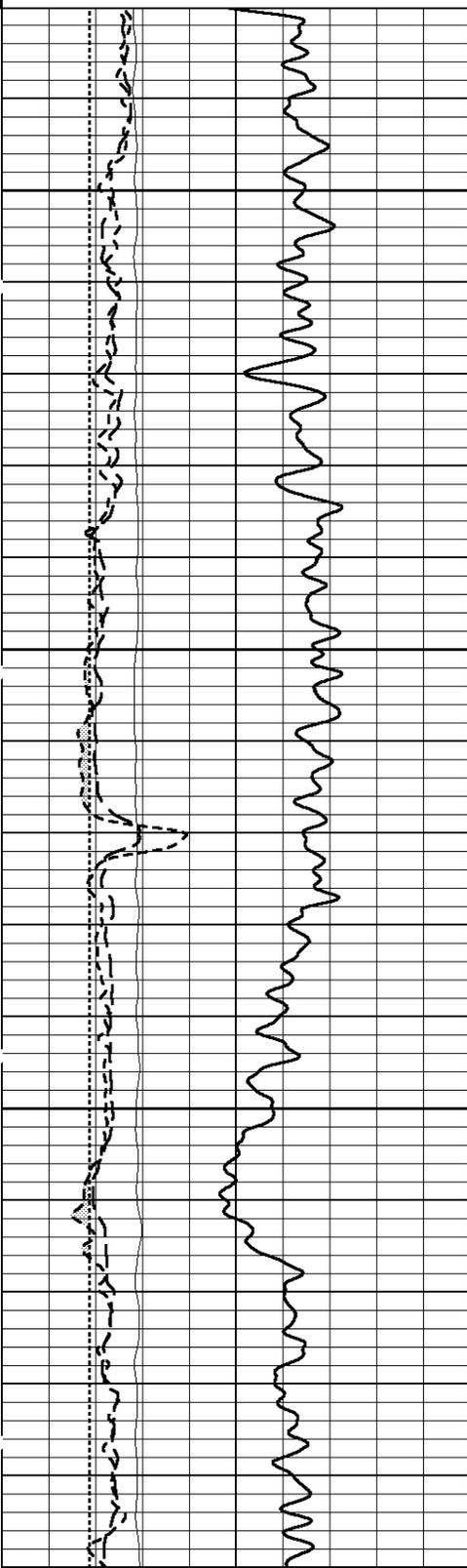
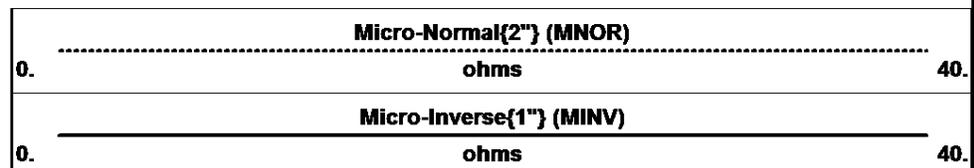
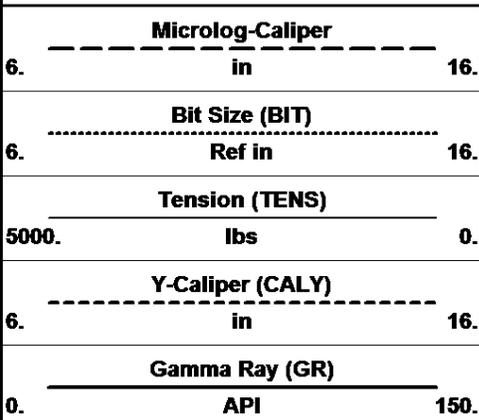
<b>Gamma Ray (GR)</b>		
0.	API	150.
<b>Y-Caliper (CALY)</b>		
6.	in	16.
<b>Tension (TENS)</b>		
5000.	lbs	0.
<b>Bit Size (BIT)</b>		
6.	Ref in	16.
<b>Microlog-Caliper</b>		
6.	in	16.

<b>Micro-Inverse{1"} (MINV)</b>		
0.	ohms	40.
<b>Micro-Normal{2"} (MNOR)</b>		
0.	ohms	40.

06/25/2014  
15:56:22 => Start Time

**MAIN PASS (5"/100ft)**

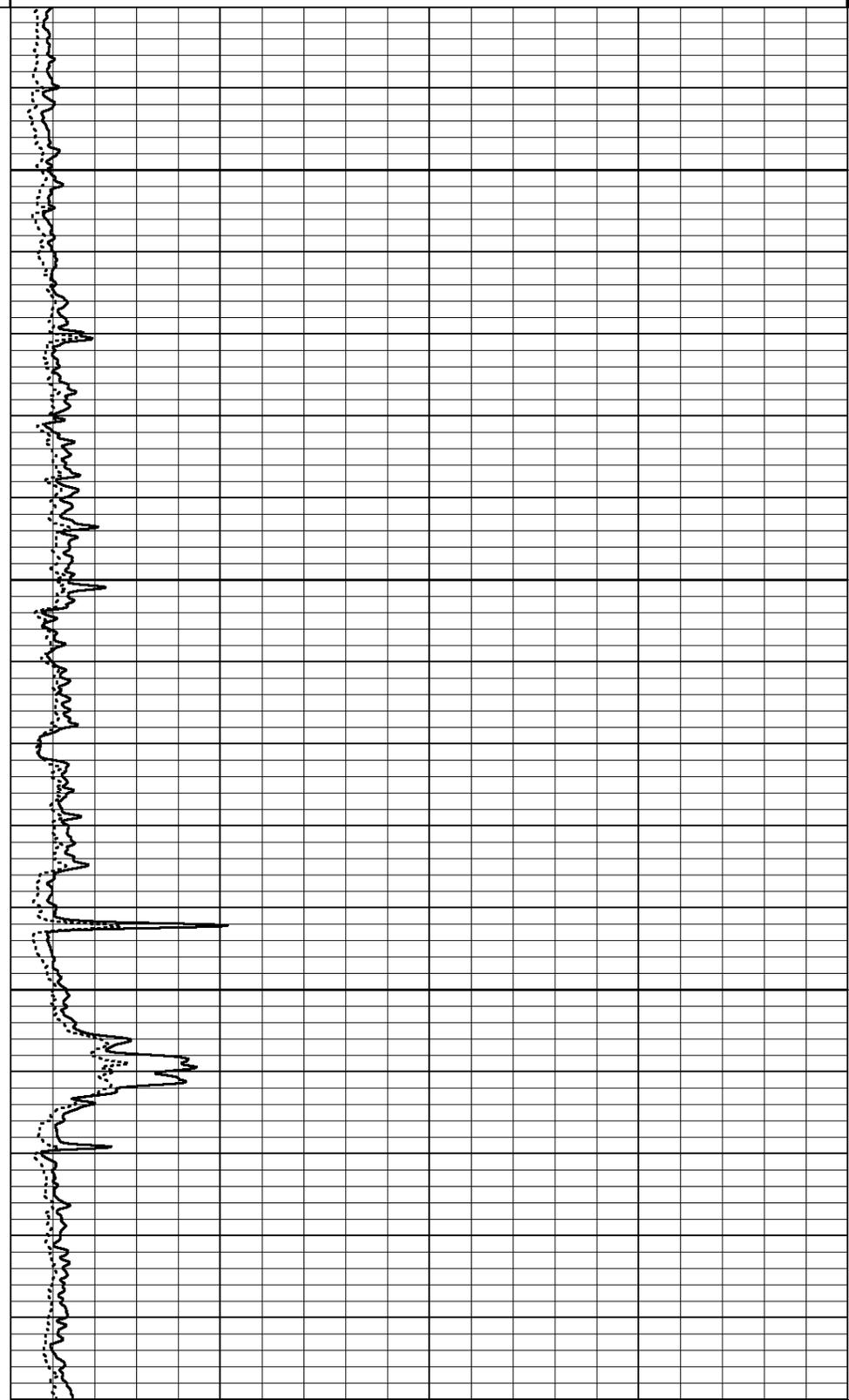
Log UP - (VER 11.19)  
Start Depth=> 6724.10 Feet

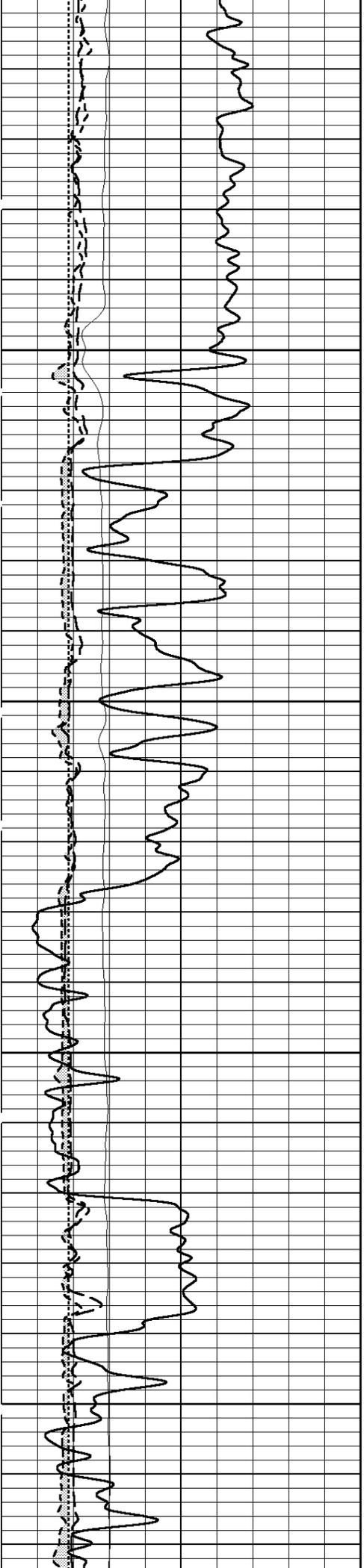


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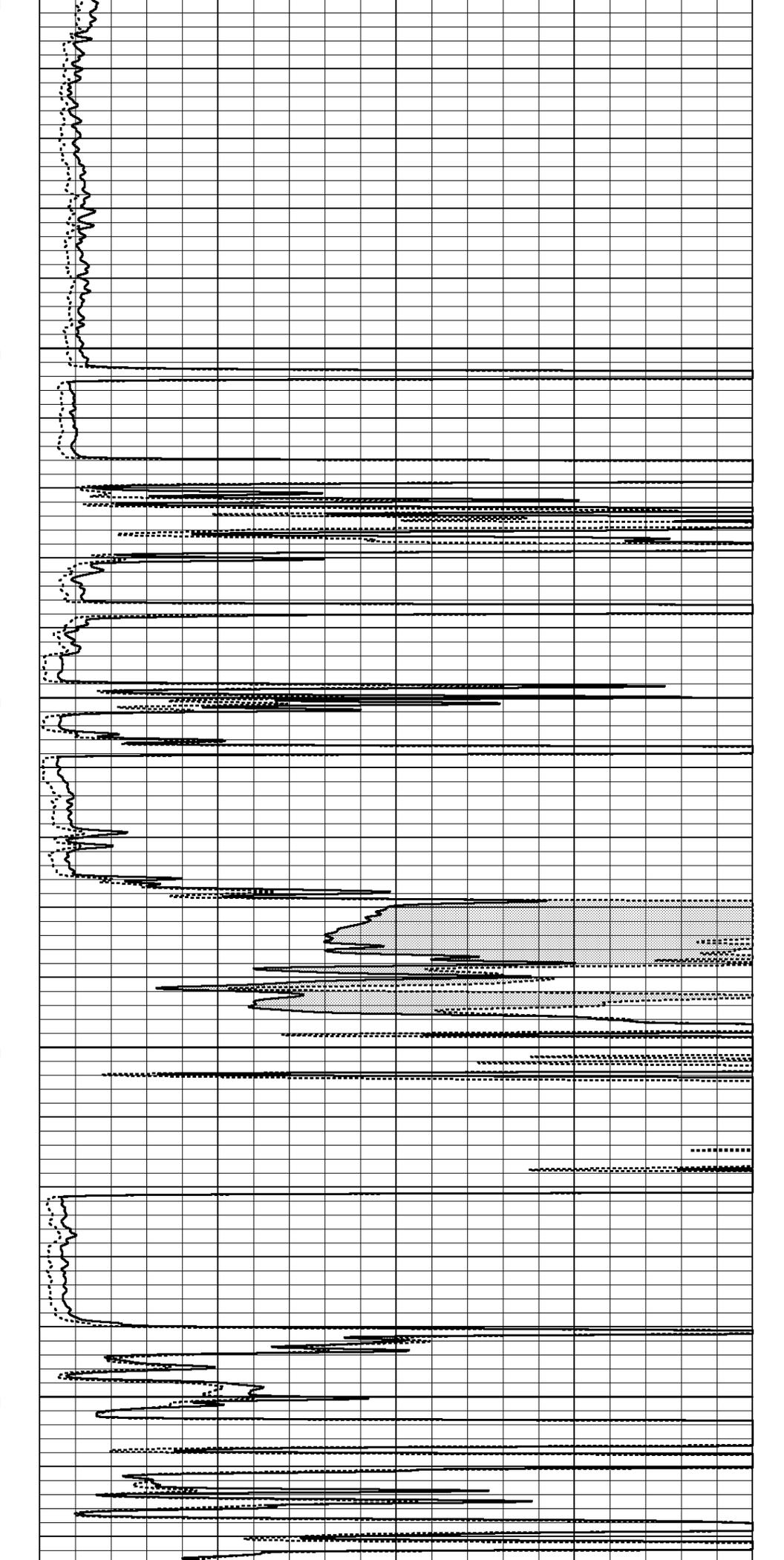
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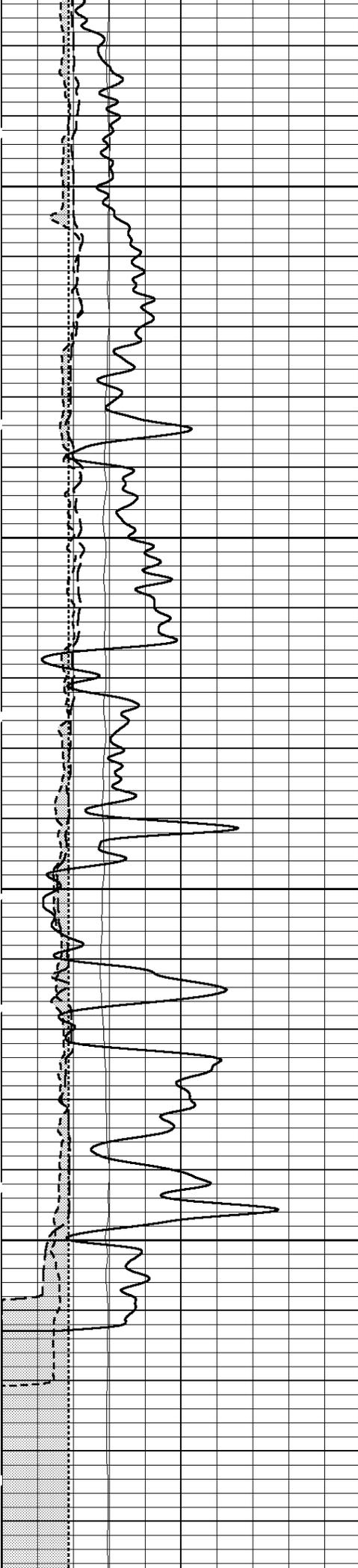
6200





6250  
6300  
6350  
6400  
6450



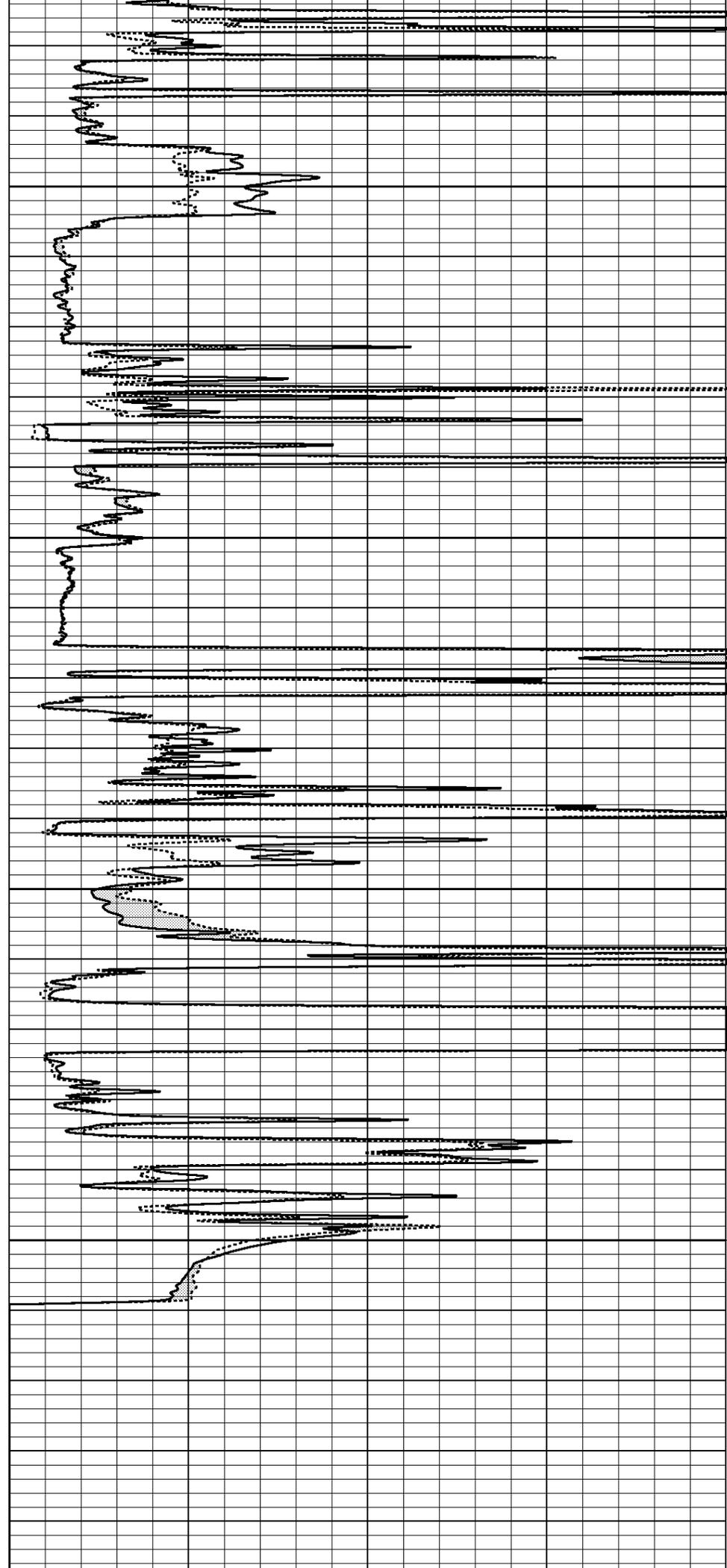


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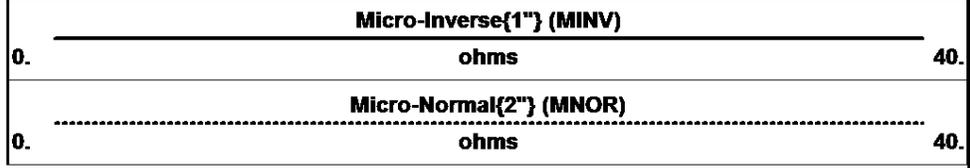
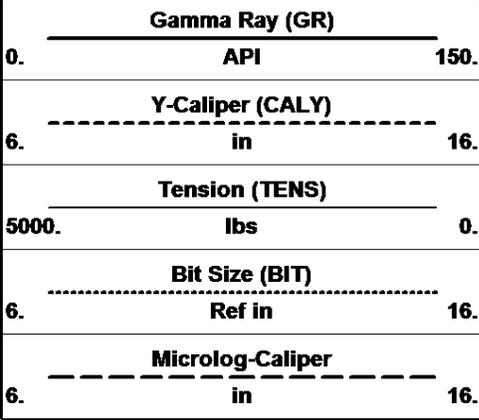
6550

6600

6650



6700



06/25/2014 15:31:32 => Start Time **REPEAT PASS (5"/100ft)** Log UP - (VER 11.19) Start Depth=> 6724.10 Feet

**MICRO INVERSE CALIBRATIONS**

SERIAL NUM

**MASTER CALIBRATIONS**

	LowVal: 0.020 ohmm	HighVal: 10.000 ohmm	Gain/Offset	CALIBRATION DATE	CALIBRATION TIME
BASE CALS	16.173 - raw	264.067 - raw	0.040 - gain -0.631 - off	M/D/Y> 2/12/2014	H:M:S> 13:38:50

**MICRO NORMAL CALIBRATIONS**

SERIAL NUM

**MASTER CALIBRATIONS**

	LowVal: 0.020 ohmm	HighVal: 10.000 ohmm	Gain/Offset	CALIBRATION DATE	CALIBRATION TIME
BASE CALS	55.600 - raw	365.973 - raw	0.032 - gain -1.768 - off	M/D/Y> 2/12/2014	H:M:S> 13:47:23

**GAMMA RAY CALIBRATION**

SERIAL NUM   
BLANKET NUM

**MASTER CALIBRATIONS**

	LowVal: 0.000 API	HighVal: 122.000 API	Gain/Offset	CALIBRATION DATE	CALIBRATION TIME
BASE CALS	0.000 - raw	462.227 - raw	0.305 - gain 0.000 - off	M/D/Y> 5/15/2014	H:M:S> 15:28:13

**WELL SITE CALIBRATIONS**

	LowVal: 0.000 API	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

**Y CALIPER CALIBRATIONS**

SERIAL NUM	RN2002

**MASTER CALIBRATIONS**

	LowVal: 6.000 in	HighVal: 10.000 in	Gain/Offset	CALIBRATION DATE	CALIBRATION TIME
BASE CALS	1221.320 - raw	1889.117 - raw	0.006 - gain -1.316 - off	M/D/Y> 5/15/2014	H:M:S> 12:17:4

**MICRO CALIPER CALIBRATIONS**

SERIAL NUM	RM8005

**MASTER CALIBRATIONS**

	LowVal: 6.000 in	HighVal: 10.000 in	Gain/Offset	CALIBRATION DATE	CALIBRATION TIME
BASE CALS	1993.434 - raw	3961.290 - raw	0.002 - gain 1.948 - off	M/D/Y> 2/12/2014	H:M:S> 13:55:24

<b>Company</b>	<b>MIDWESTERN EXPLORATION COMPANY</b>
<b>Well</b>	<b>MILLS-GOOCH #2-7</b>
<b>Field</b>	<b>GOOCH</b>
<b>County</b>	<b>STEVENS</b>
<b>State</b>	<b>KANSAS</b>



**MICROLOG  
GAMMA RAY  
X-Y CALIPER**



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**RECON**  
Petrotechnologies  
Ltd.