

Company **RED OAK ENERGY, INC.**
Well **MATHERS #1-2**
Field **WILDCAT**
County **LOGAN**
State **KANSAS**

RECON

**MICROLOG
GAMMA RAY
X-Y CALIPER**

SEC	TWP	RGE	OTHER SERVICES: DIL LDT	
02	12S	32W		
Location: 2073' FNL & 1257' FEL			NE SE SW NE CNL	
SURE: SAME	AP#:	15-109-21385-00-00		
Permanent Datum	Ground Level	Elev	ELEVATIONS K.B. 3000	
Log Measured From	Kelly Bushing		G.L. 2989	
Drilling Measured From	Kelly Bushing		D.F. 2999	

Date	29-JAN-2015	
Run No.	ONE	
TD Driller	4832	ft
TD RECON	4834	ft
Bot Logged Interval	4833	ft
Top Logged Interval	2600	ft
Casing Depth Driller	8 5/8	in.
Casing Depth RECON	8 5/8	in.
Bit Size	7 7/8	in.
Drilling Fluid Type	WBM	
Density	9.4 ppg	60 sec/qt
Fluid Loss	6.8 cc/30min	11.0 strip
Source Of Sample	Flowline	
RM @ Measured Temp	1.102	Ohmm @ 75
RMF @ Measured Temp	0.826	Ohmm @ 75
RMC @ Measured Temp	1.377	Ohmm @ 75
RM @ MRT	0.679	Ohmm @ 126
Max Recorded Temp	126	DegF
Time Drilling Stopped	28-JAN-2015	23:00
Time Circulation Stopped	29-JAN-2015	00:00
Time Logger On Bottom	29-JAN-2015	03:21
Unit Num	S409	OKLAHOMA CITY, OK
Recorded By	H. GARCIA	
Witnessed By	M.R. S. DEENIHAN	

interpretations made by any of our officers, agents or employees, except in the case of provable Gross Neglegence or willfull damage. Interpretations are also subject to the terms and conditions of our Price Schedule and General Service Agreement.

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

RIG INFORMATION

Drill Contr/Rig# MURFIN DRLG. #22

GENERAL REMARKS SECTION

FIRST RUN IN THE HOLE
CNL AND LDT LOGGED IN A LIMESTONE MATRIX
TOP MARK - 364, BOTTOM MARK - 4768.4
CNL/LDT LOGGED MATRIX: 2.71 g/cc.

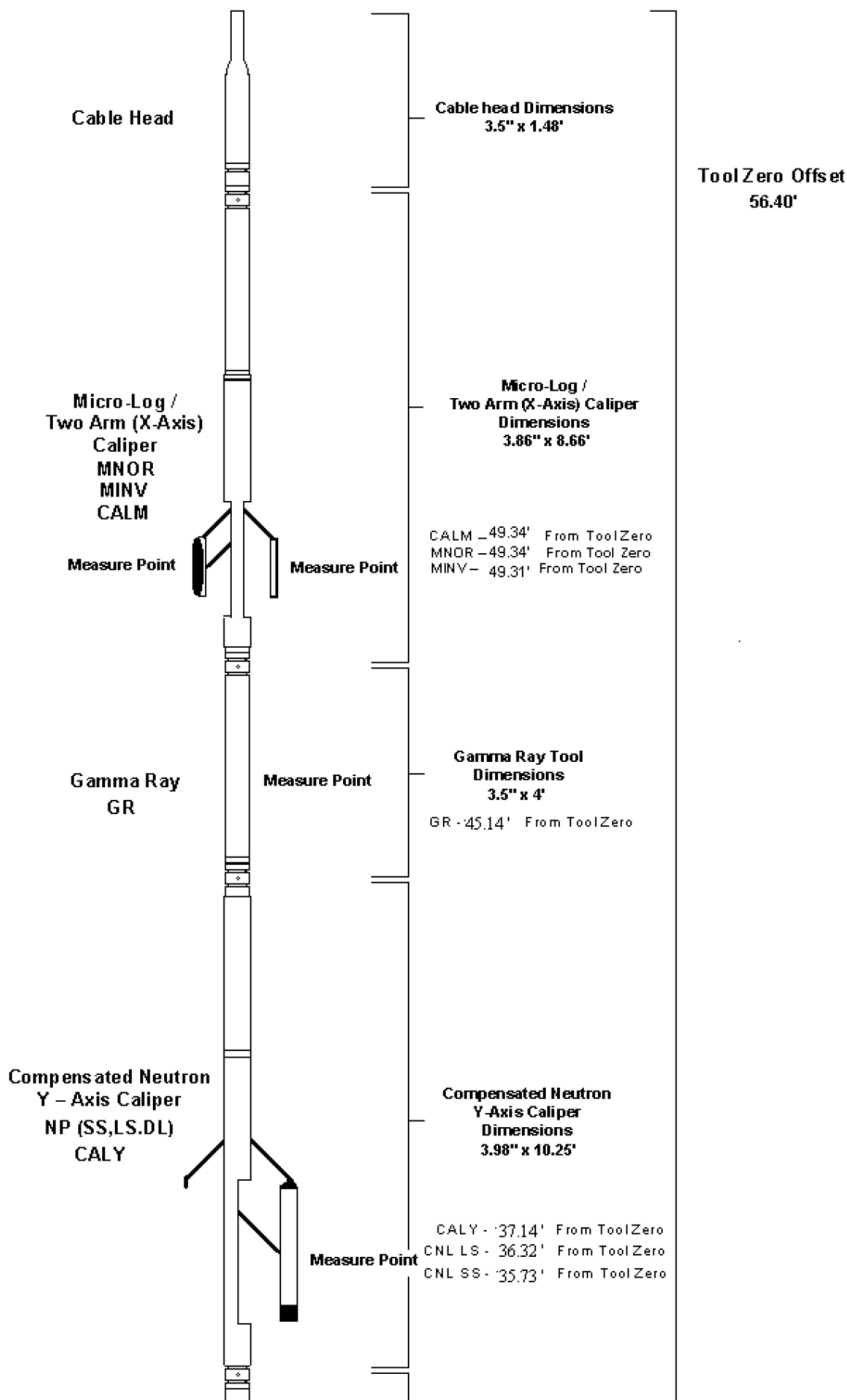
CHLORIDES: 1900 ppm
LCM: 4 ppb

THANK YOU FOR USING RECON PETROTECHNOLOGIES LTD.

AHV CALCULATED ON 5.5" PROD. CASING

CREW: J. ROSE, B. THOMAS

**DUAL INDUCTION – SP / GAMMA RAY /
COMPENSATED 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**
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
Measure Point**

SP - 10.96' From ToolZero

ILD - 10.96' From ToolZero

**CILM Measure
Point**

ILM - 7.22' From ToolZero

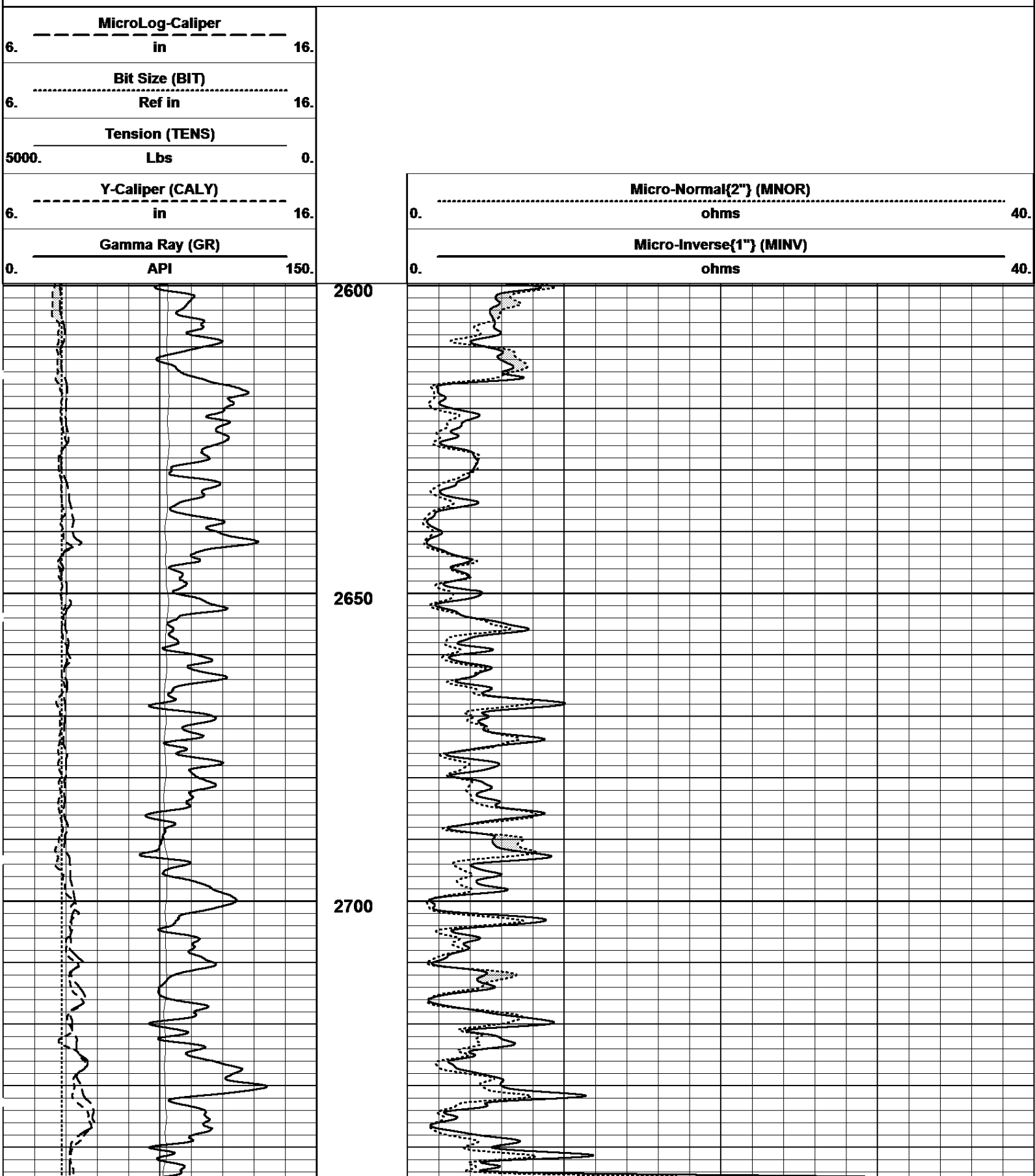
**Tool First Reading
Point**

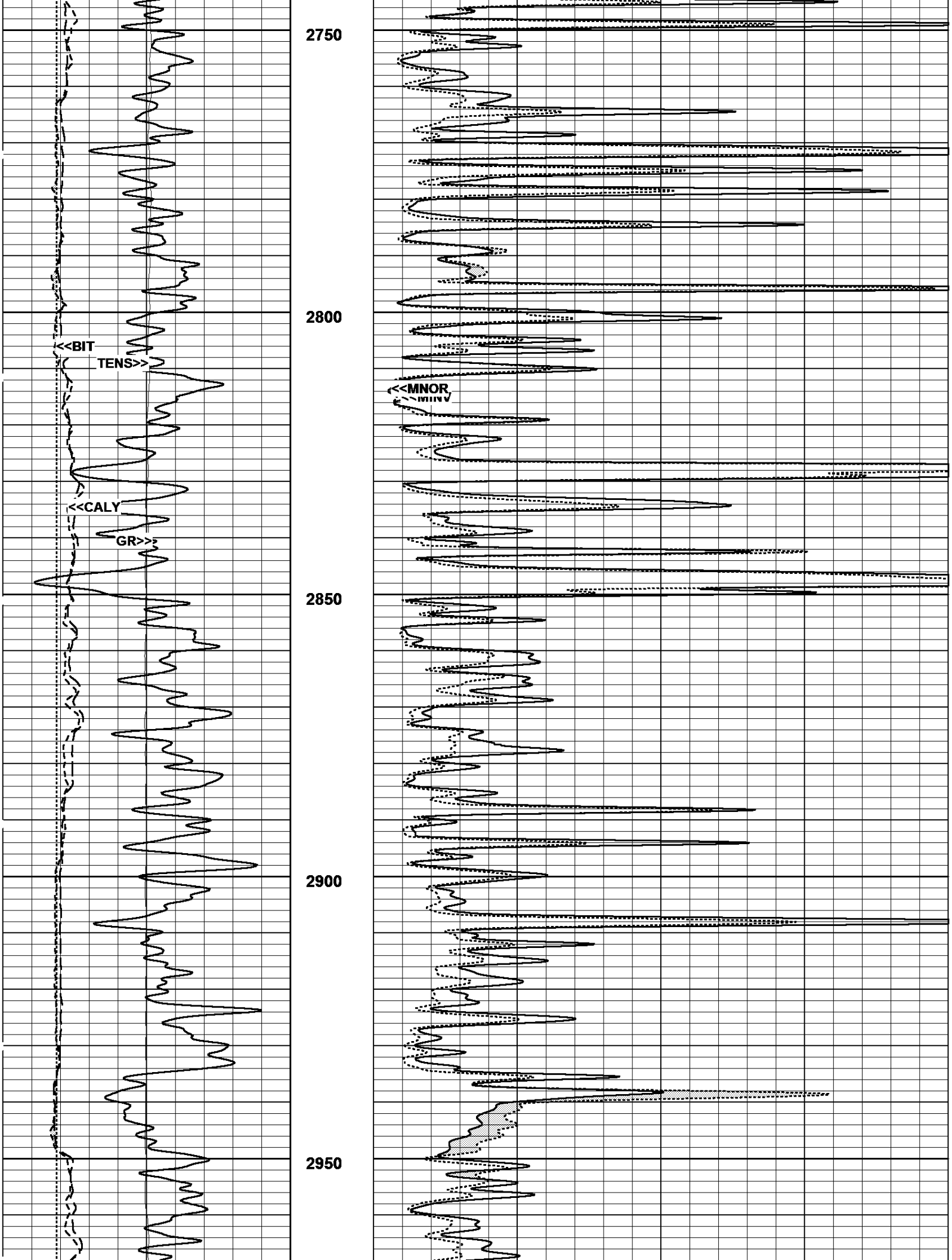
**Laterolog 3
Measure Point**

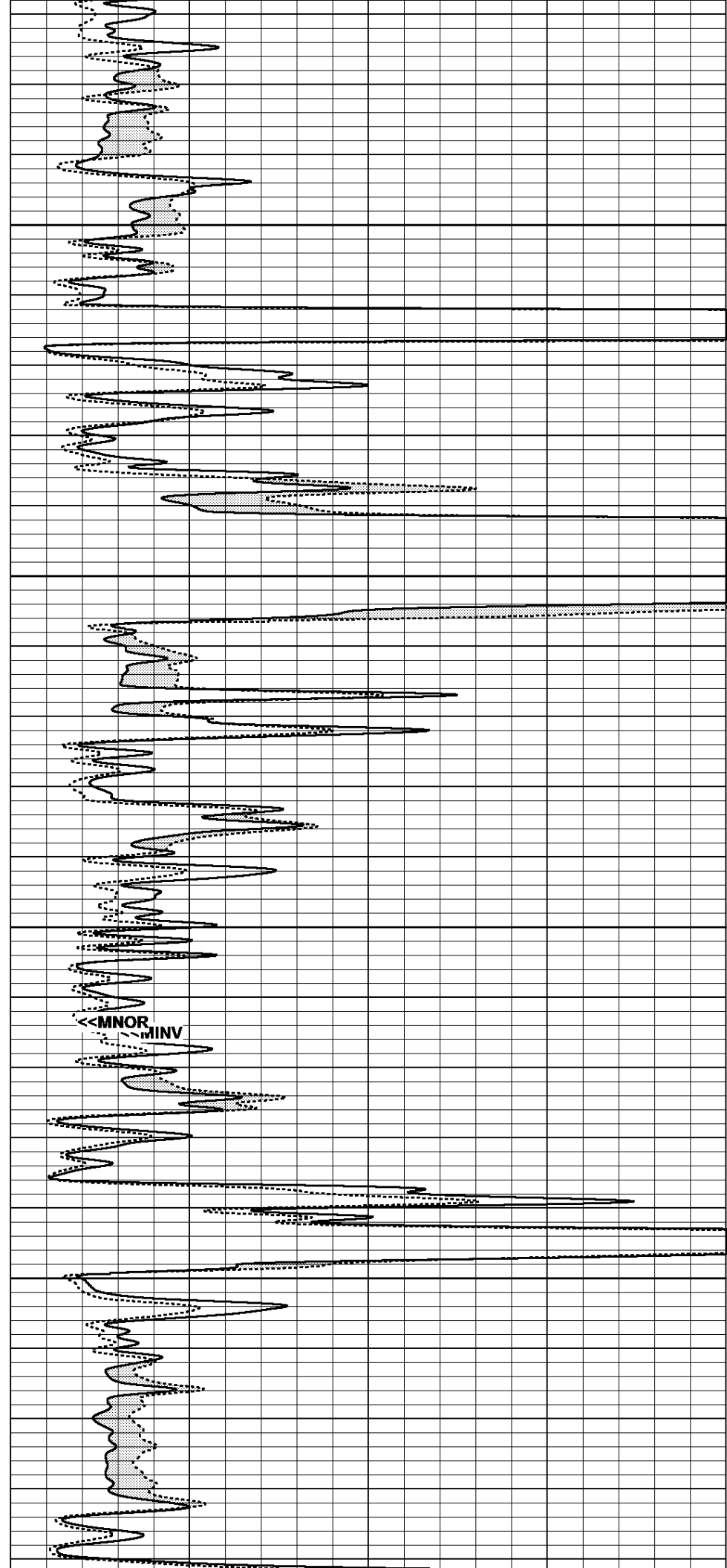
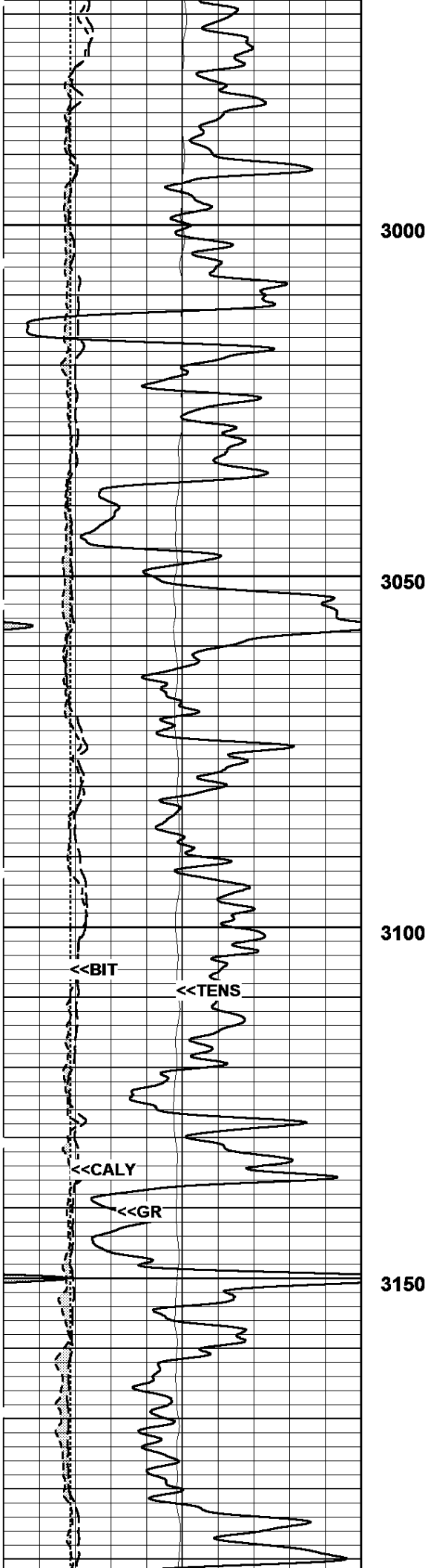
LL3 - 1.67' From ToolZero

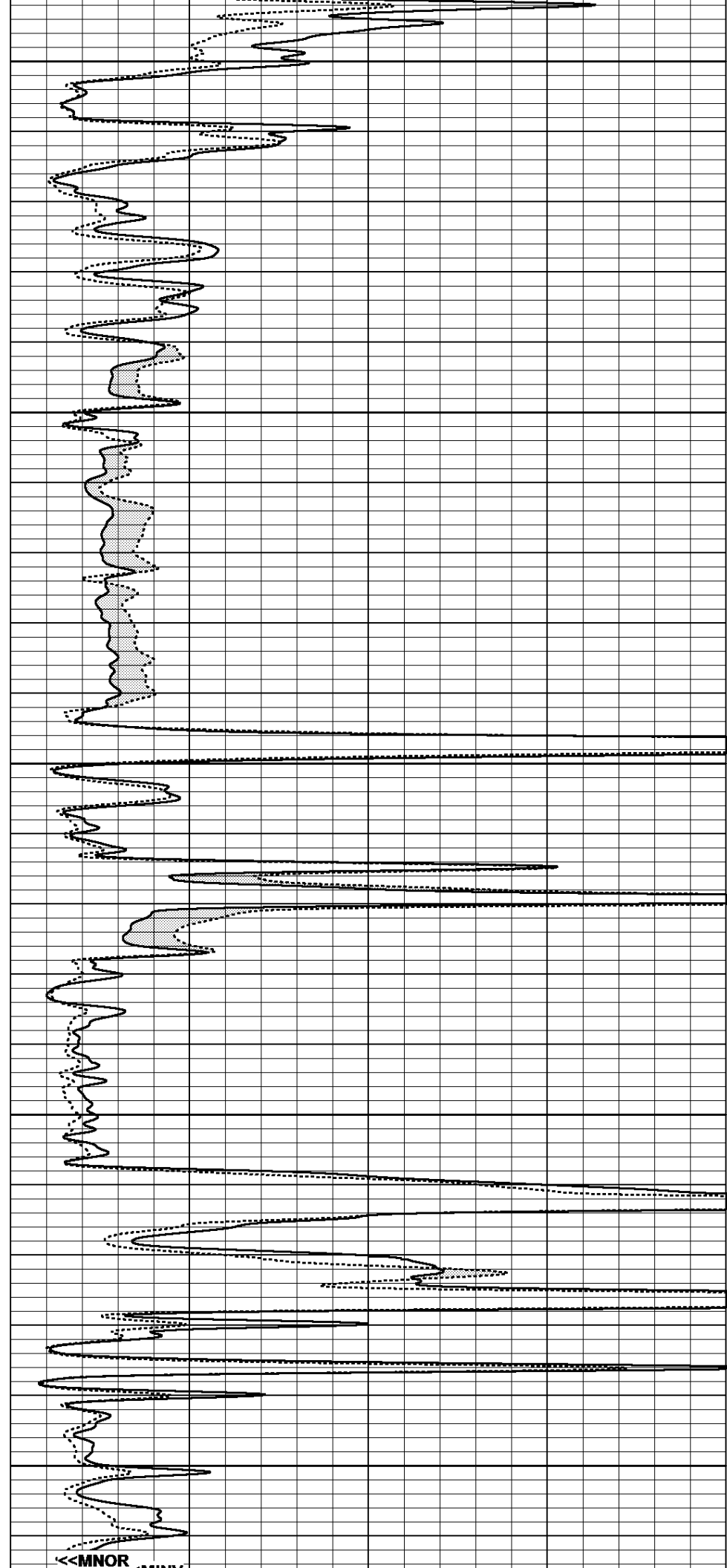
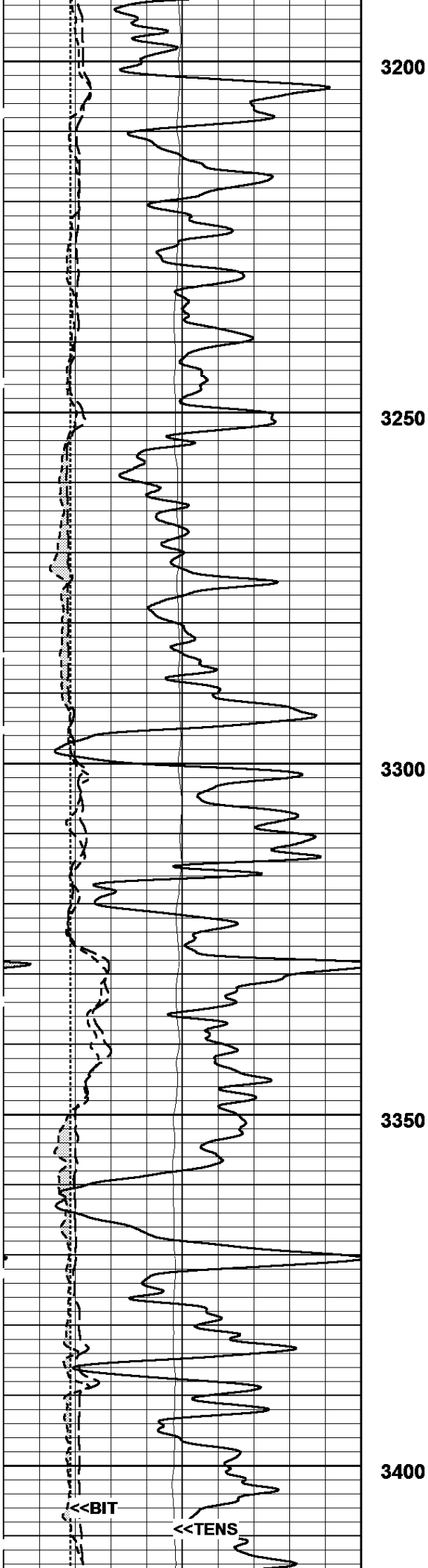
**Tool Zero Point
(Tool Bottom)**

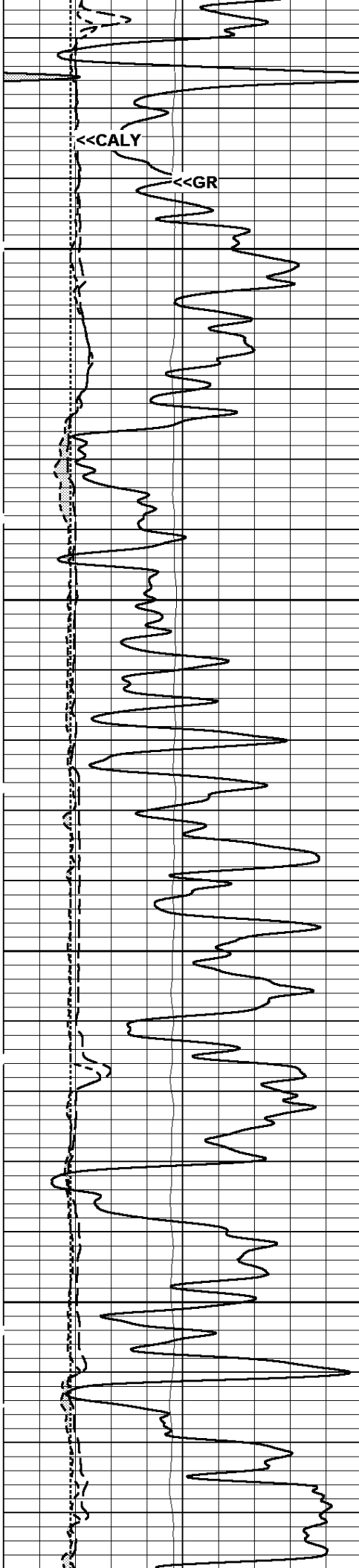
**All Measurements are
taken from Tool Zero**









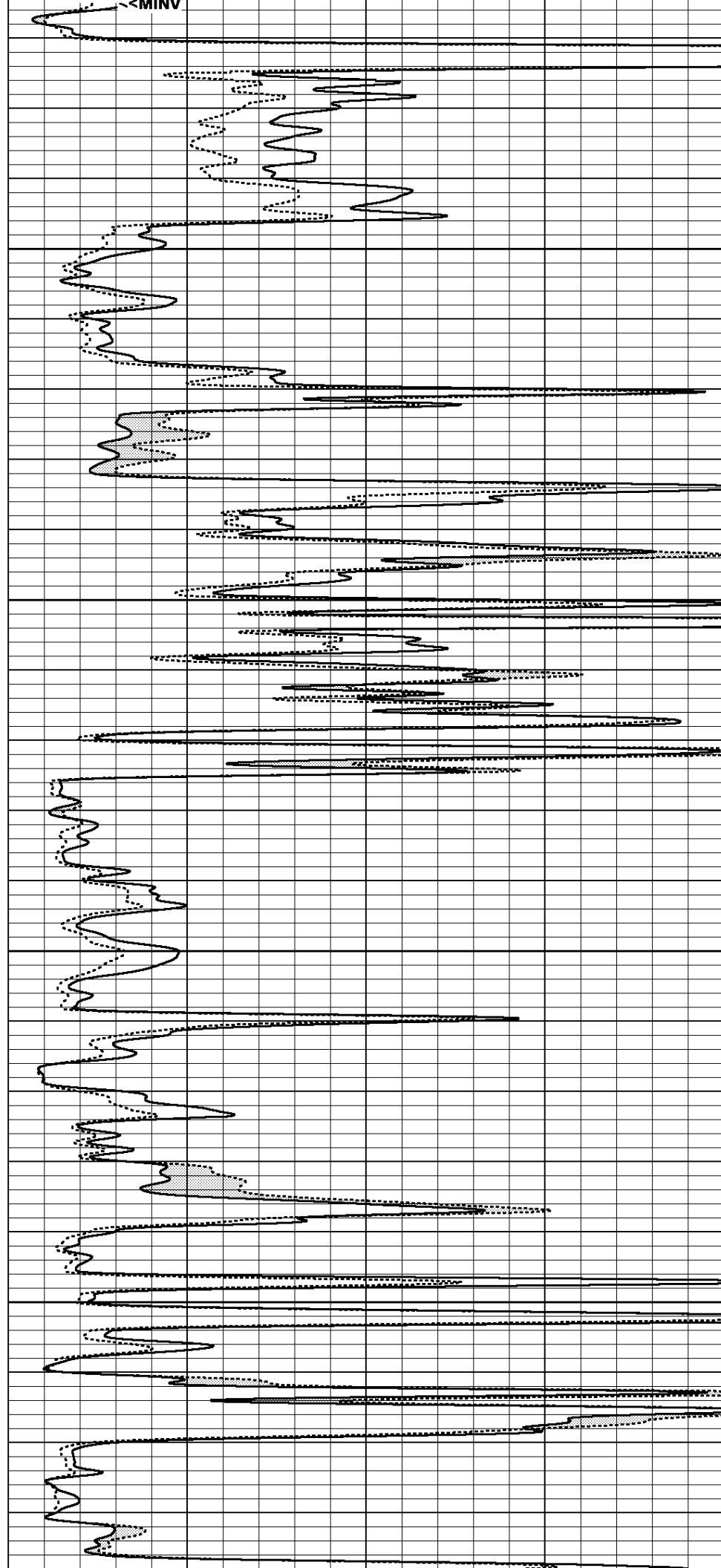


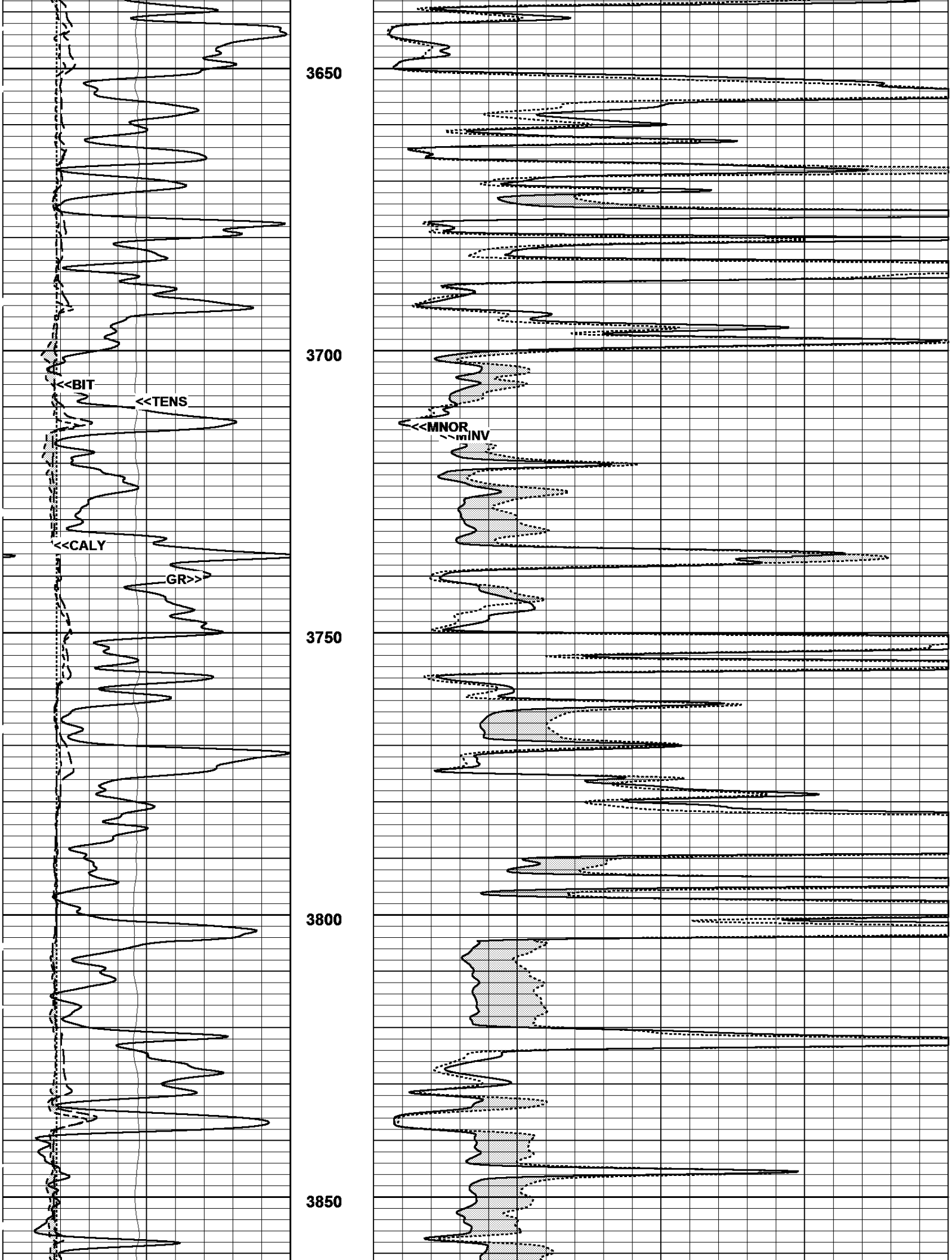
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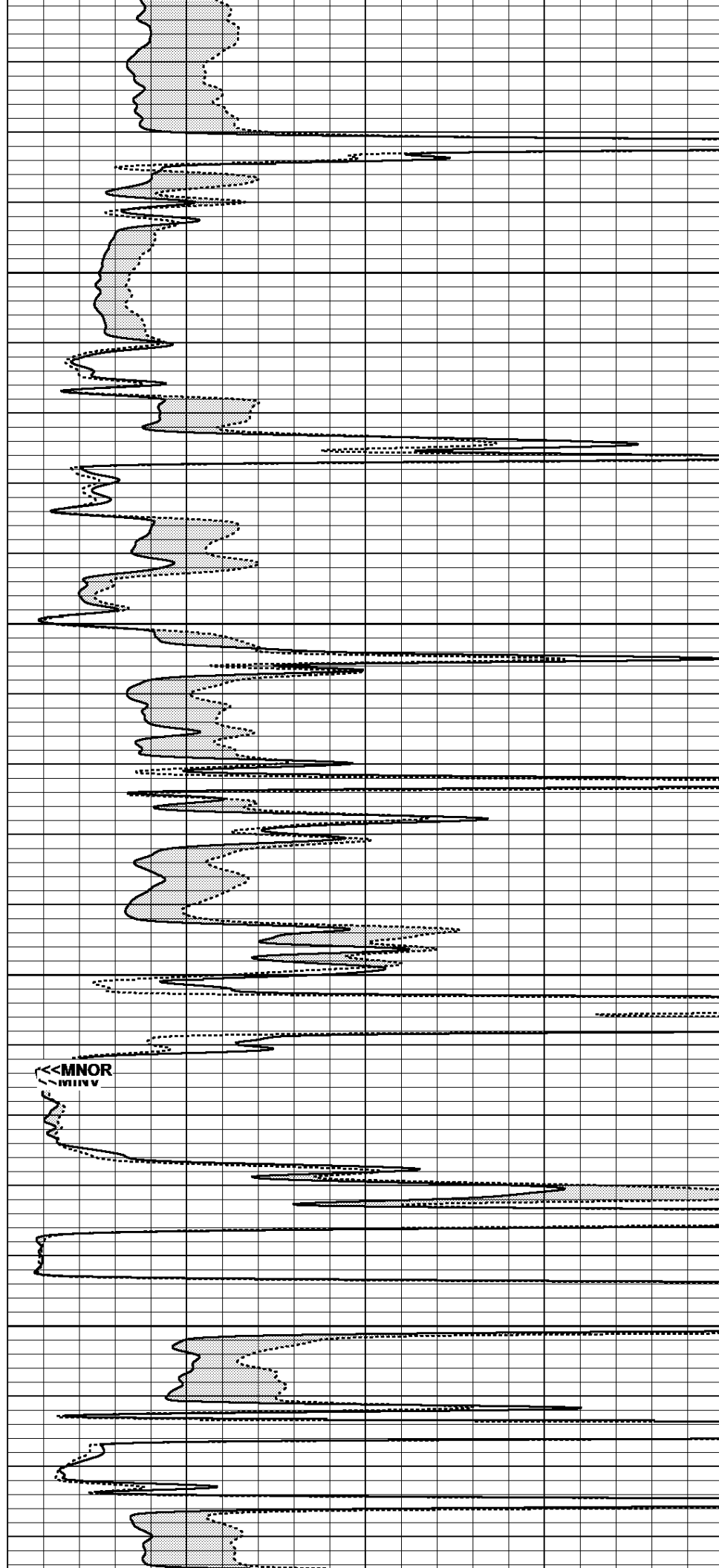
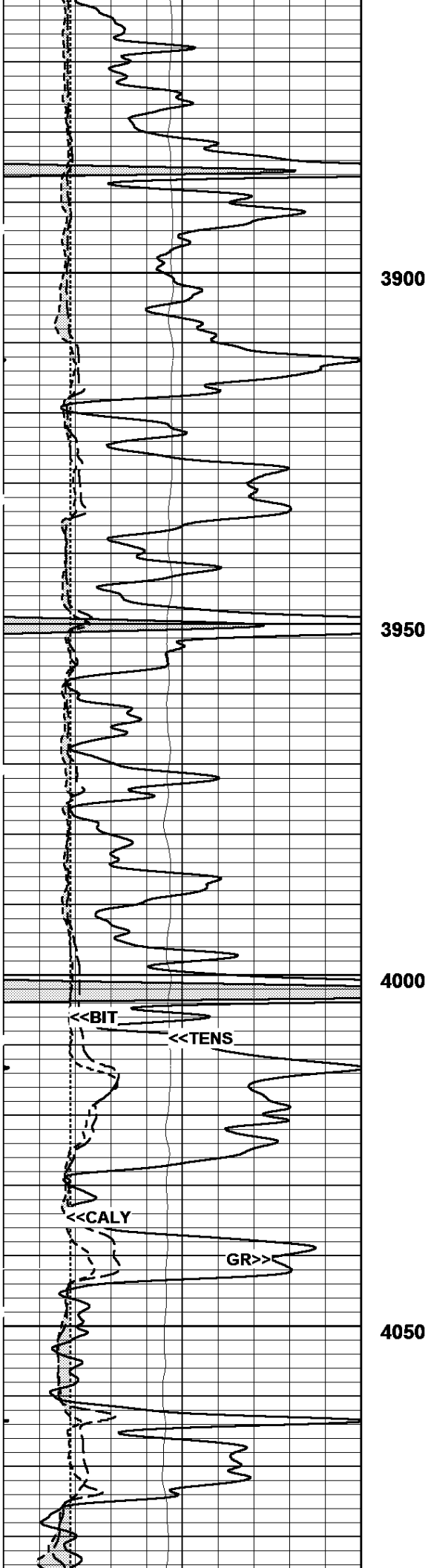
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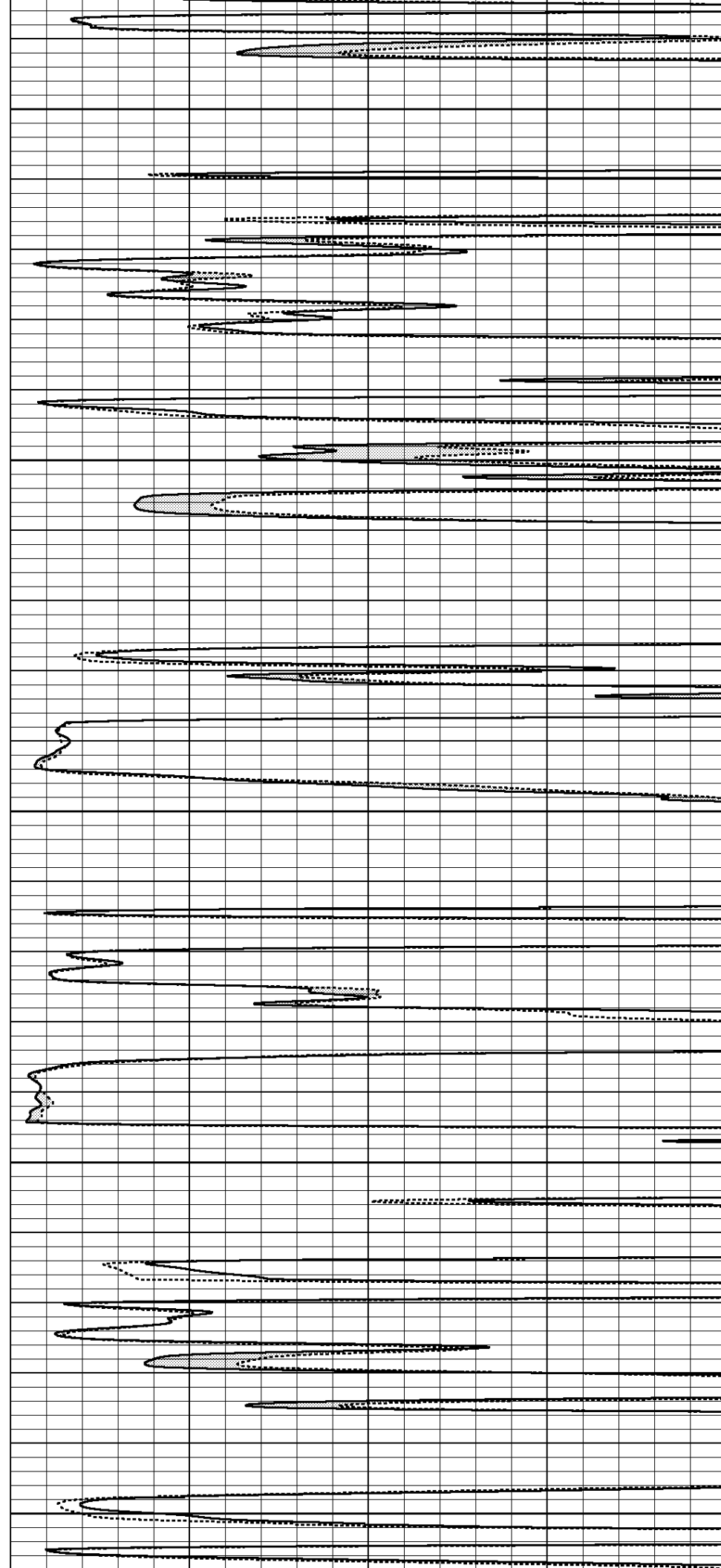
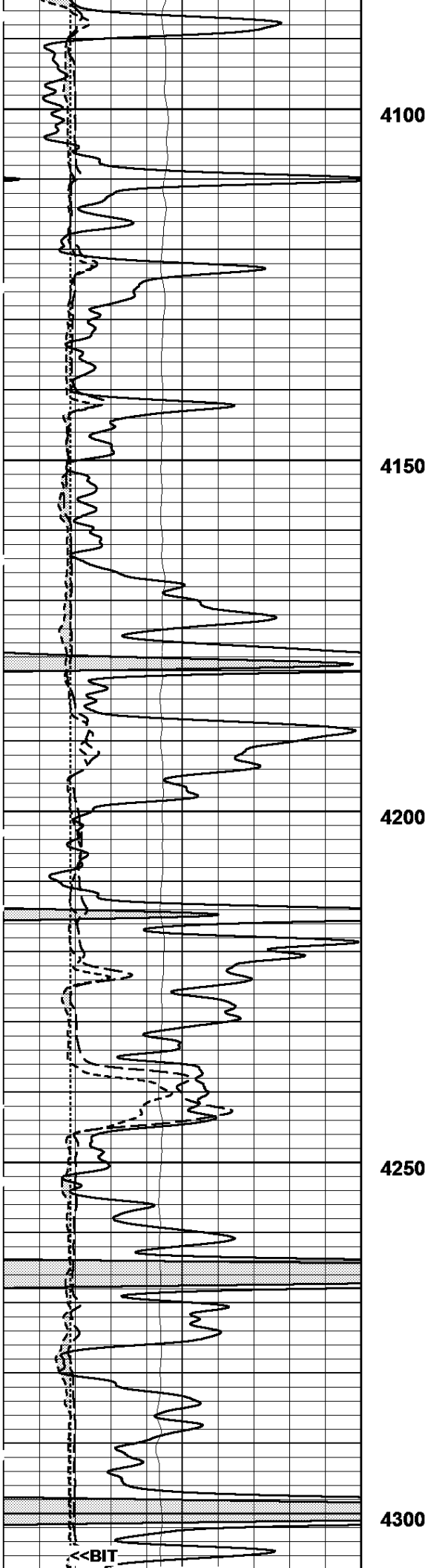
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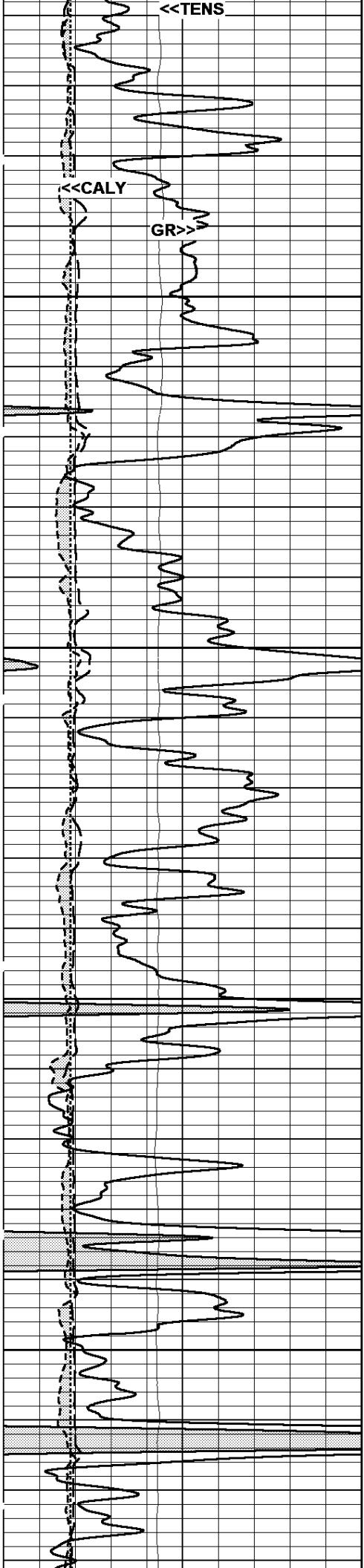
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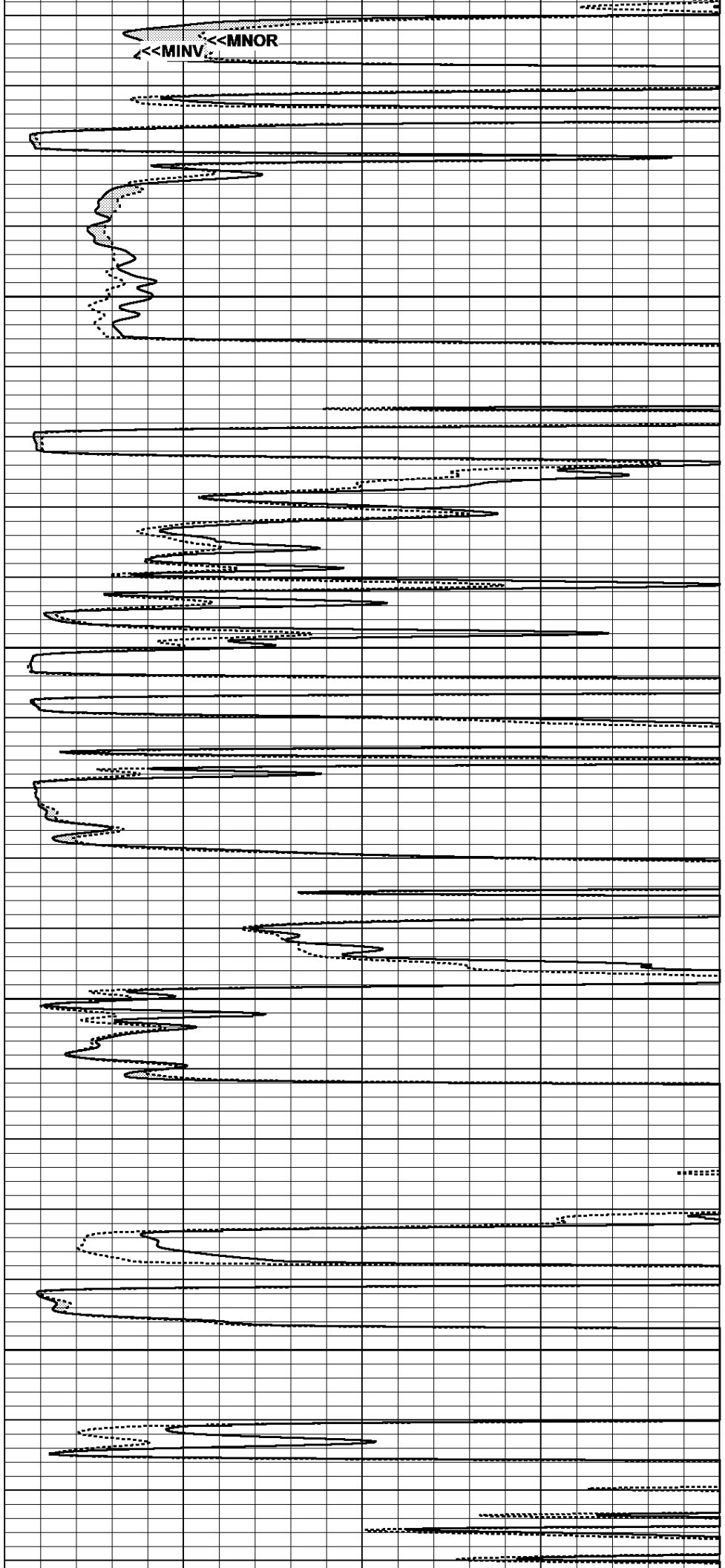


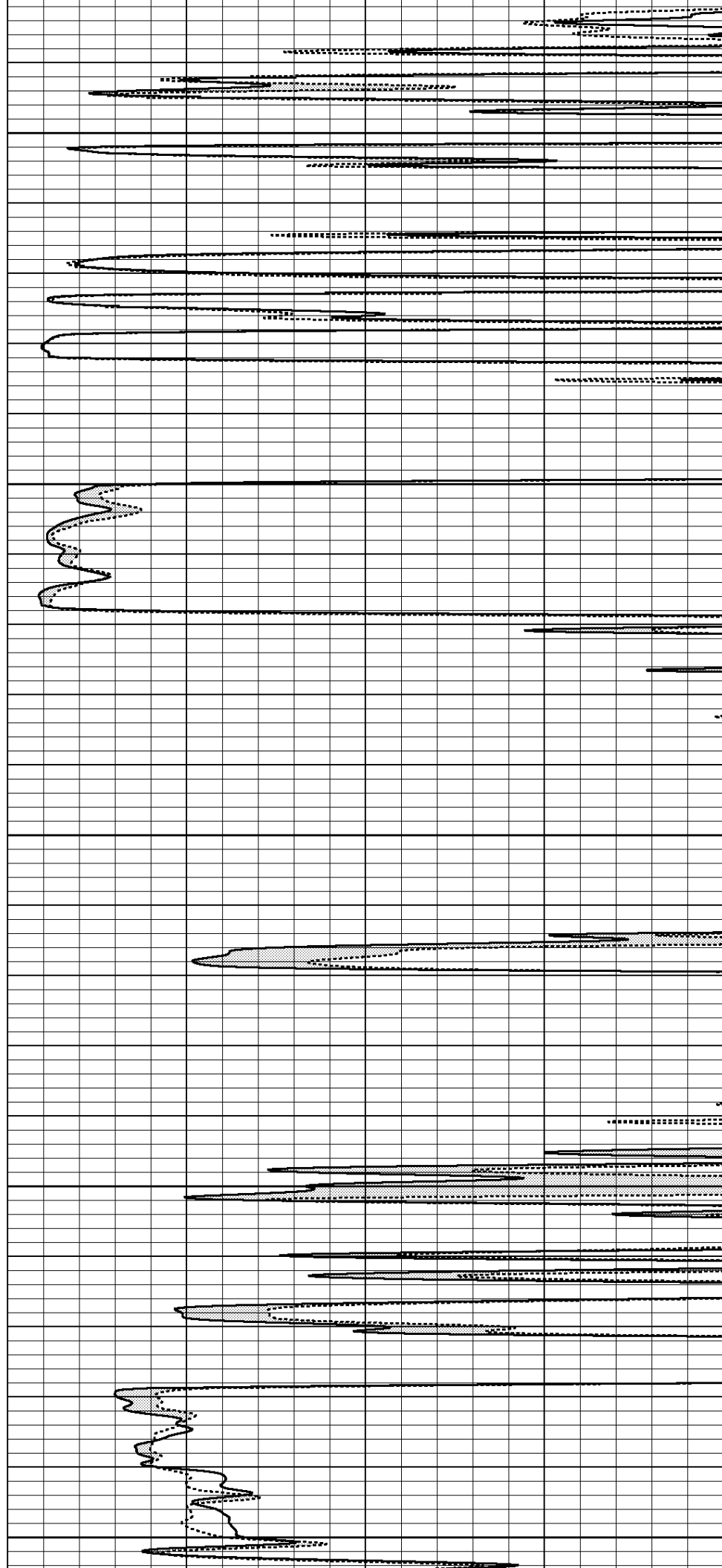
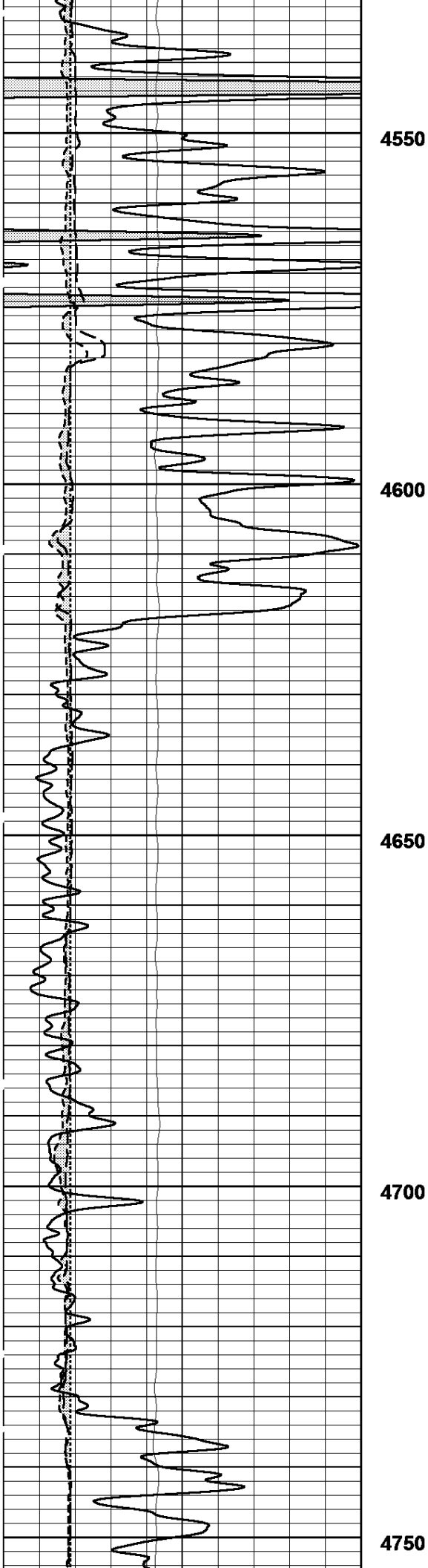
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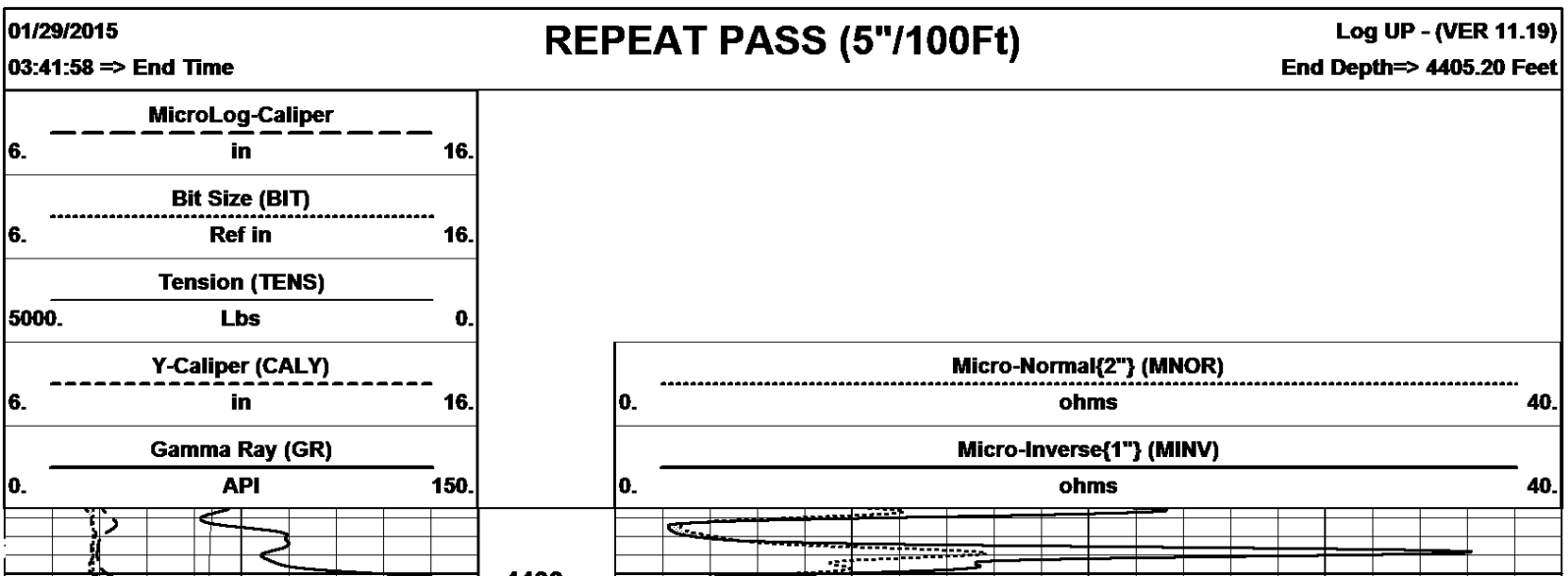
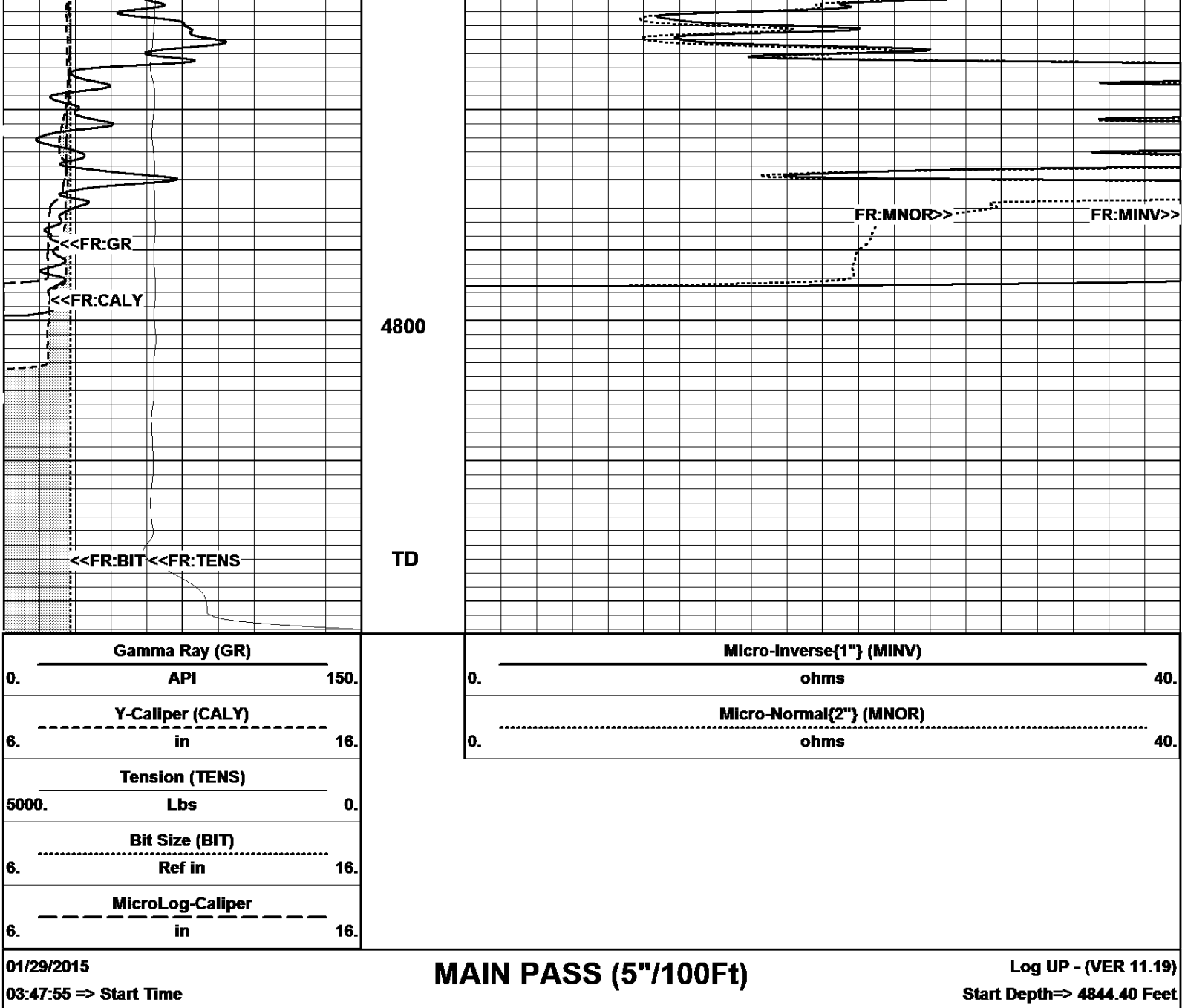
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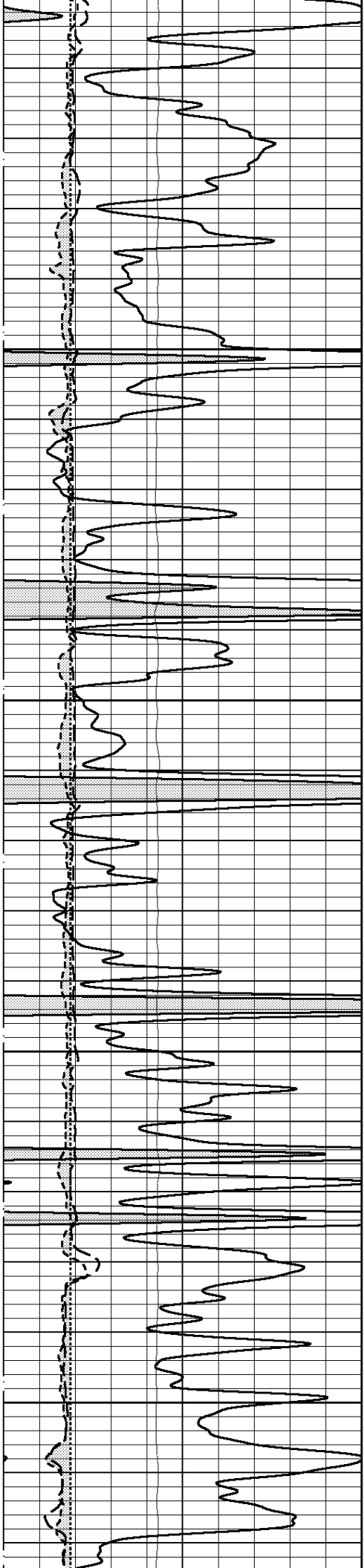
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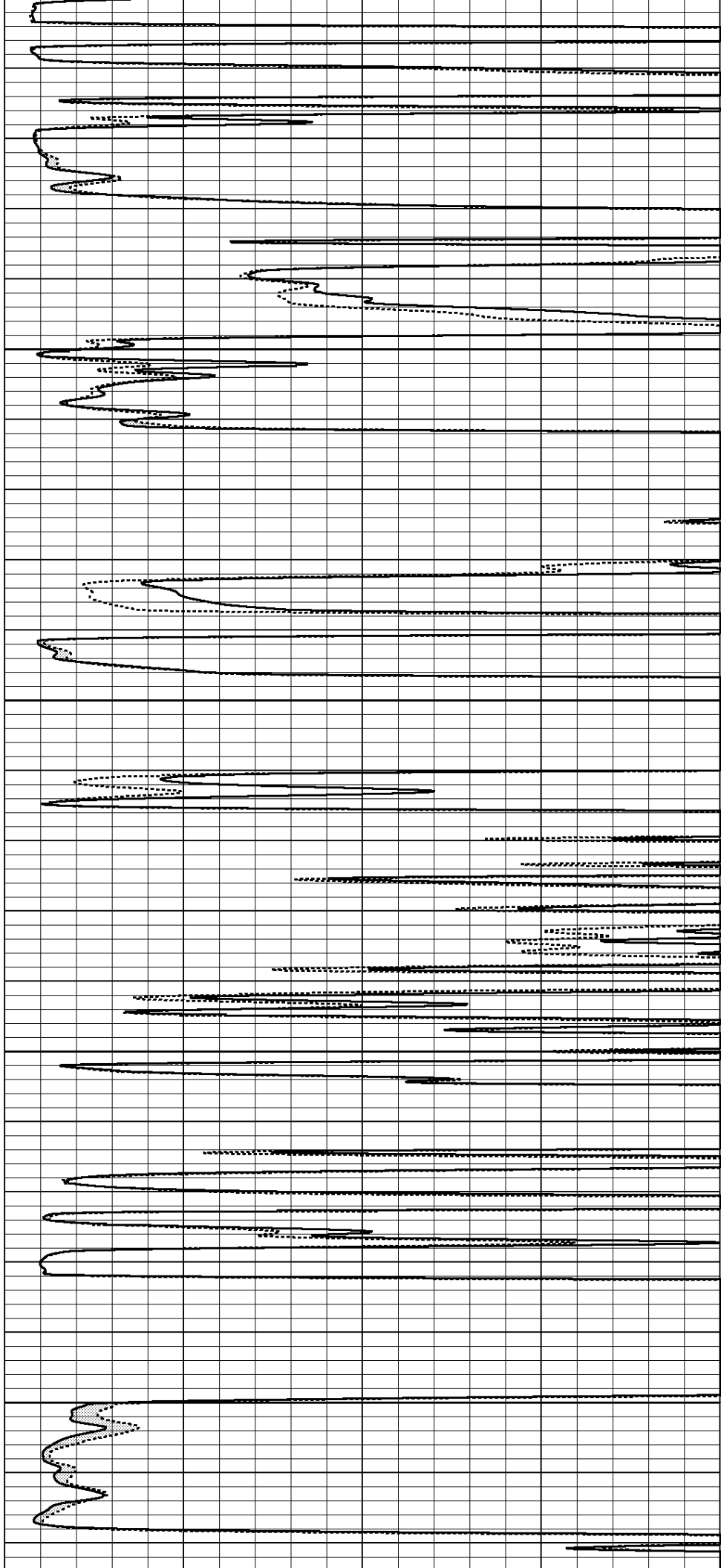
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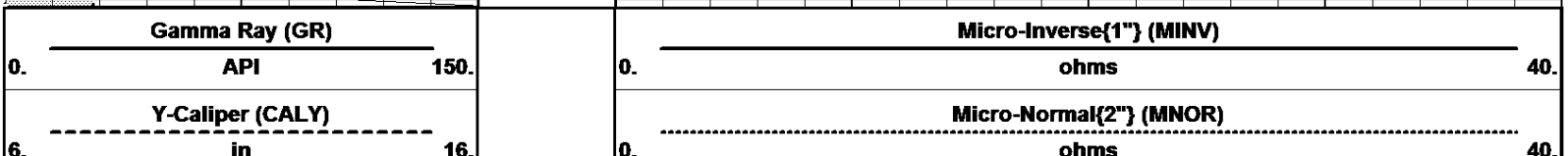
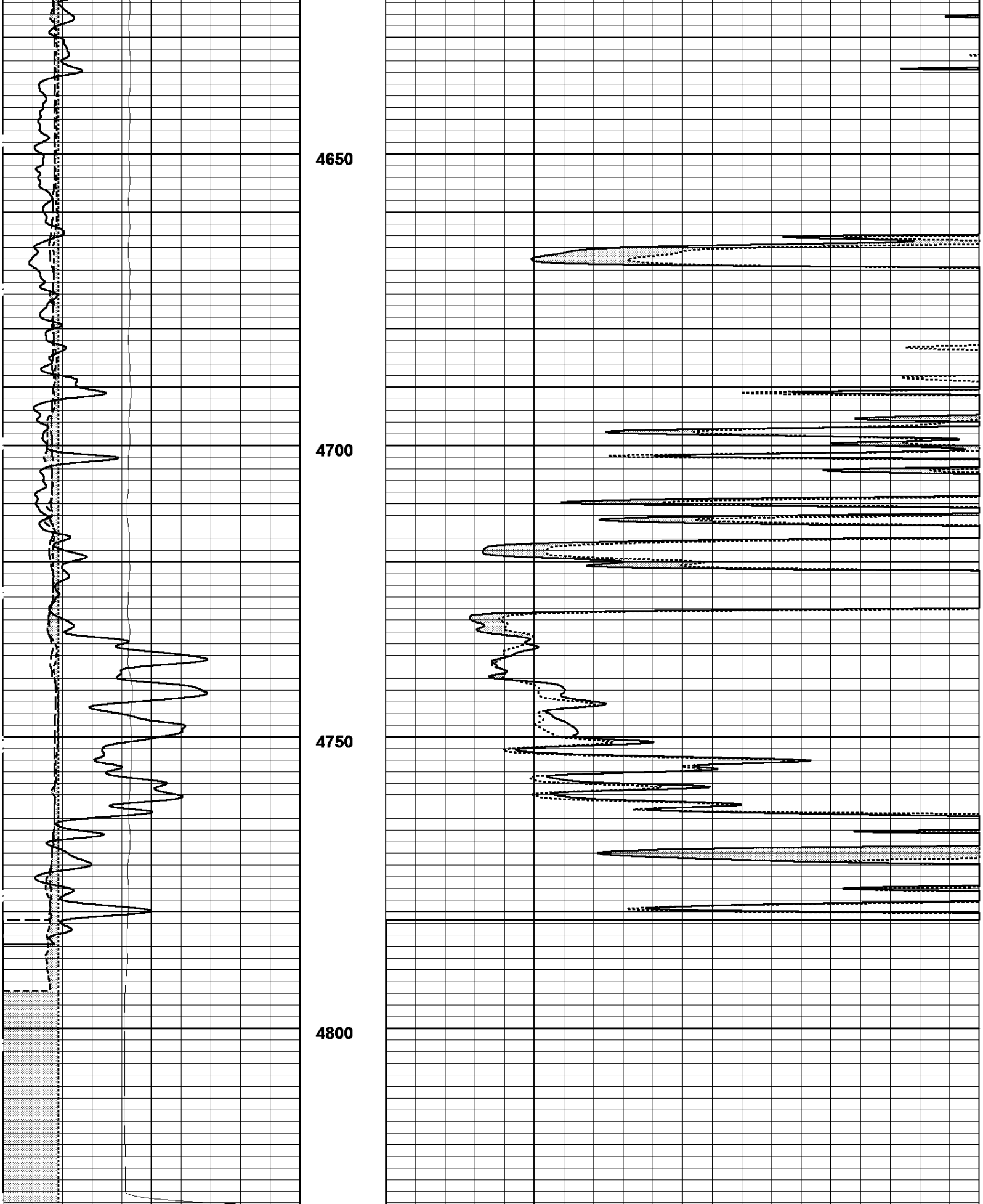
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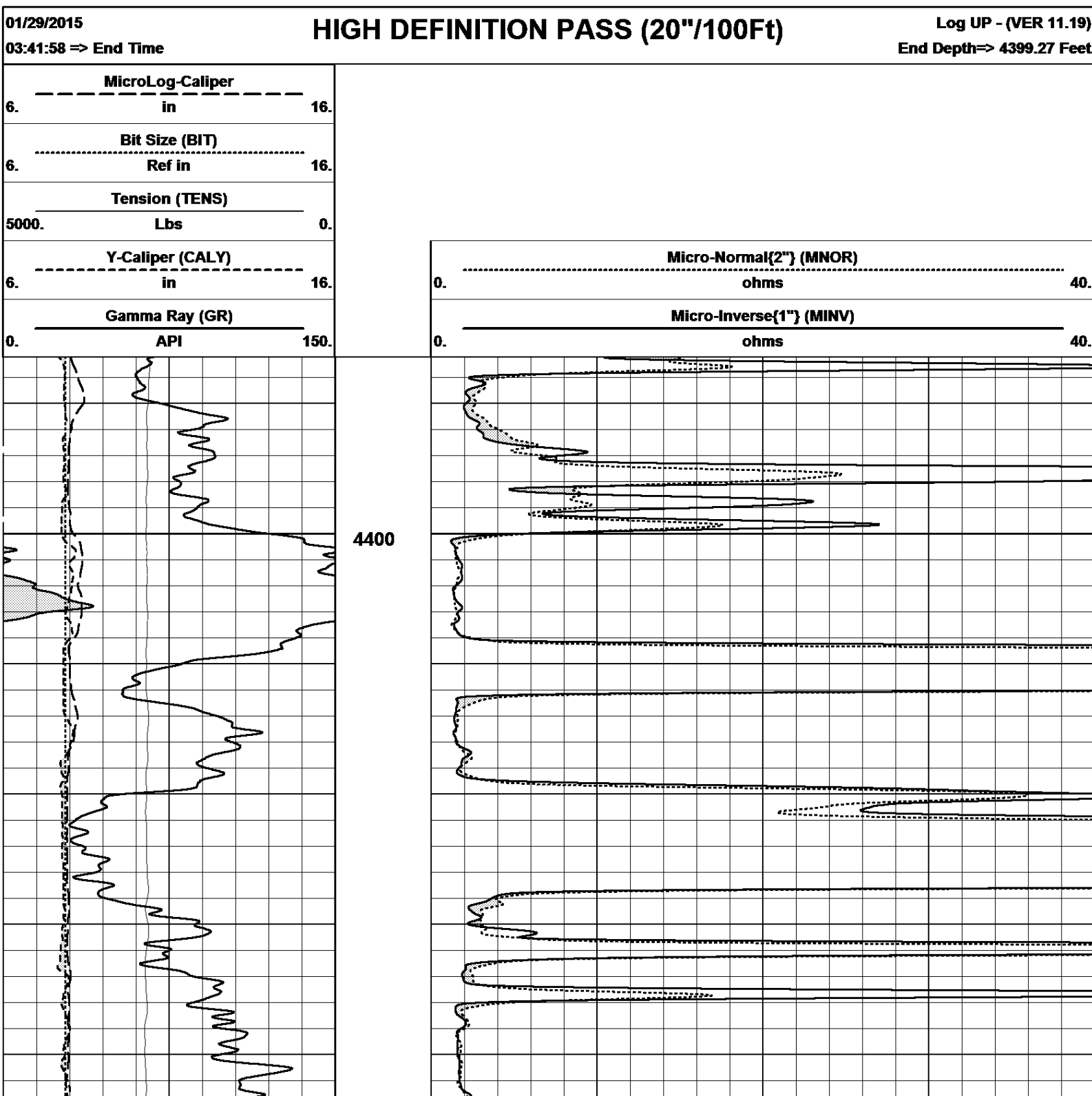
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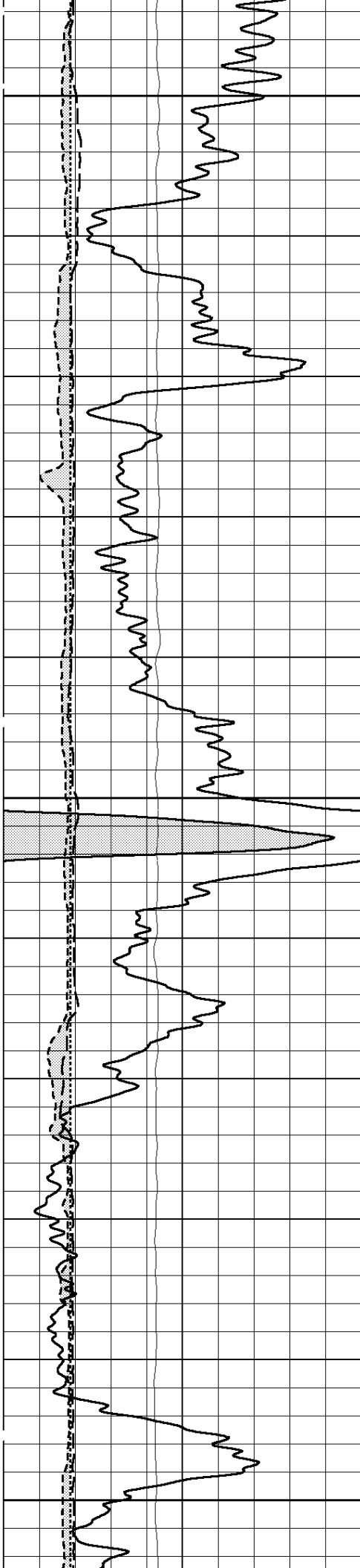
4600





Tension (TENS) 5000. Lbs 0.		
Bit Size (BIT) 6. Ref in 16.		
MicroLog-Caliper 6. in 16.		
01/29/2015 03:23:27 ⇒ Start Time		
REPEAT PASS (5"/100Ft)		
Log UP - (VER 11.19) Start Depth⇒ 4842.70 Feet		

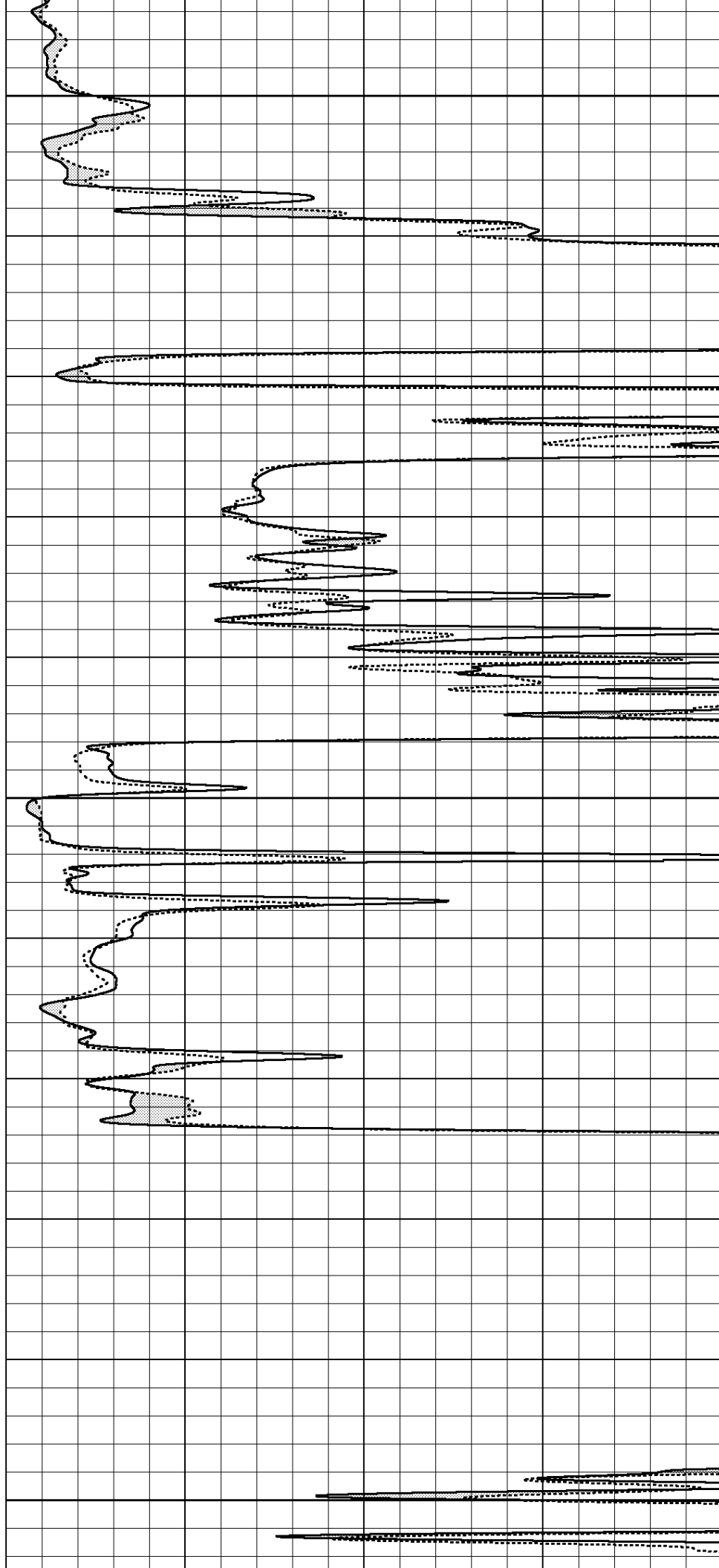


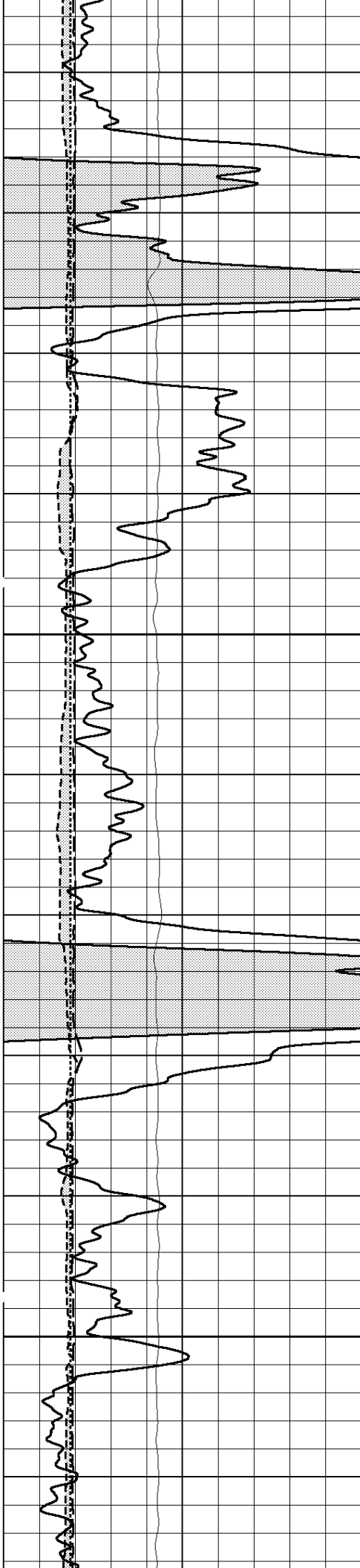


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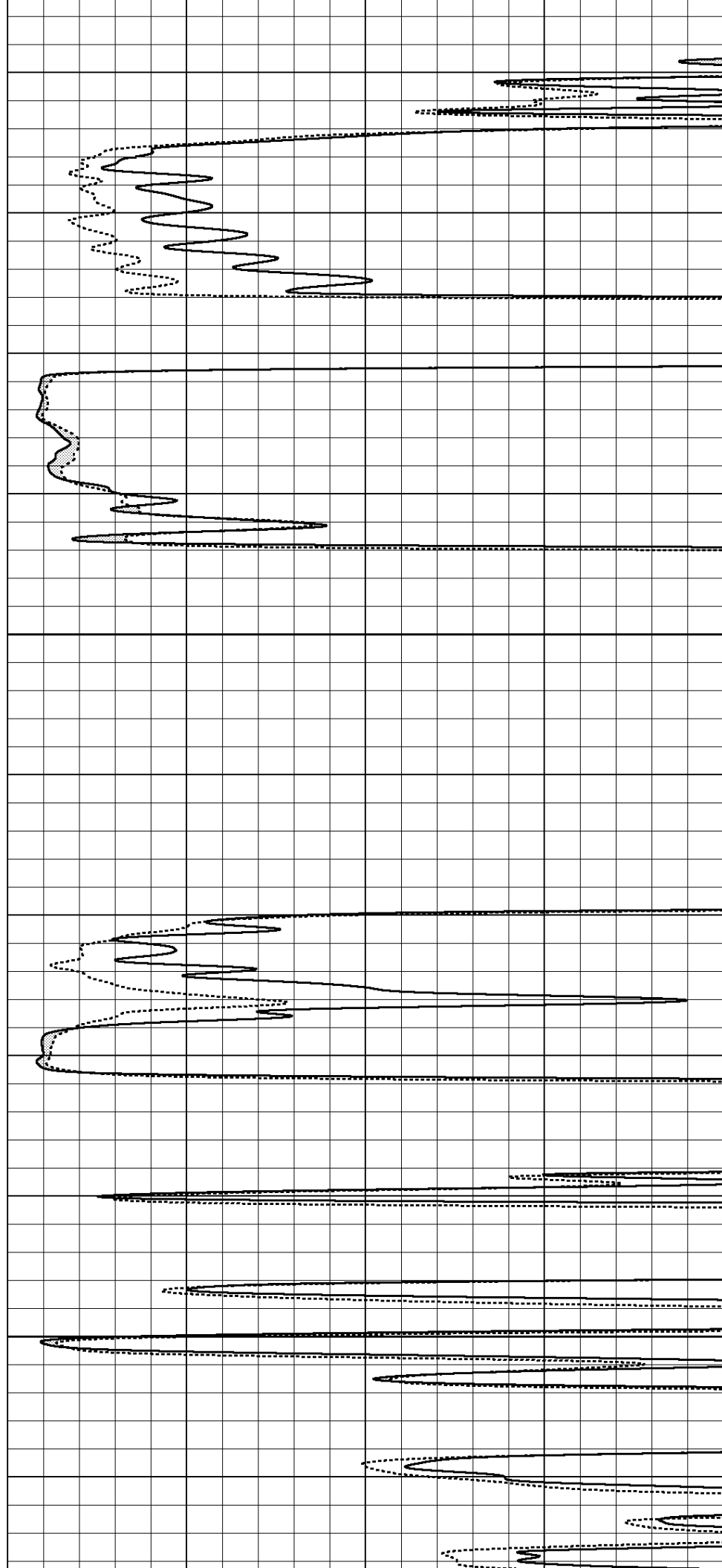
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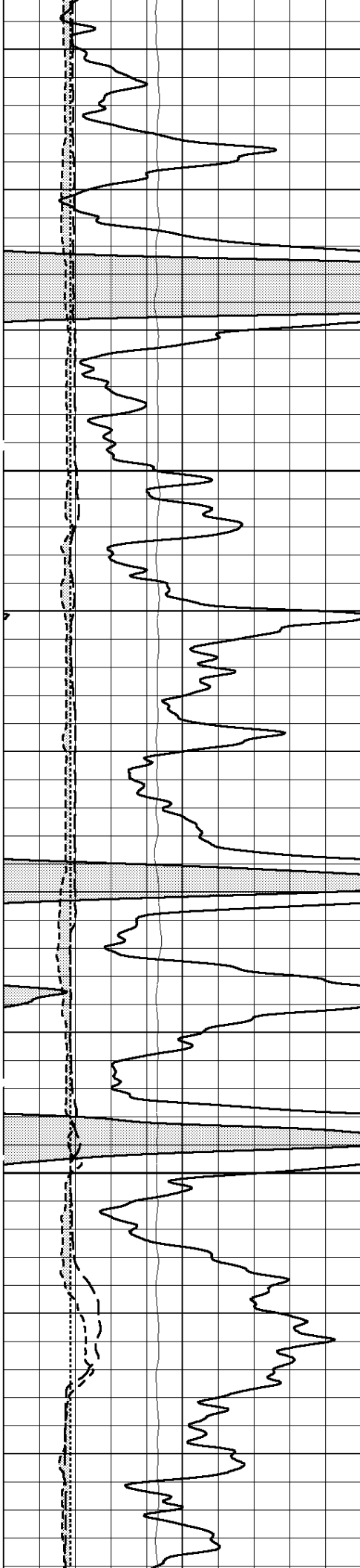




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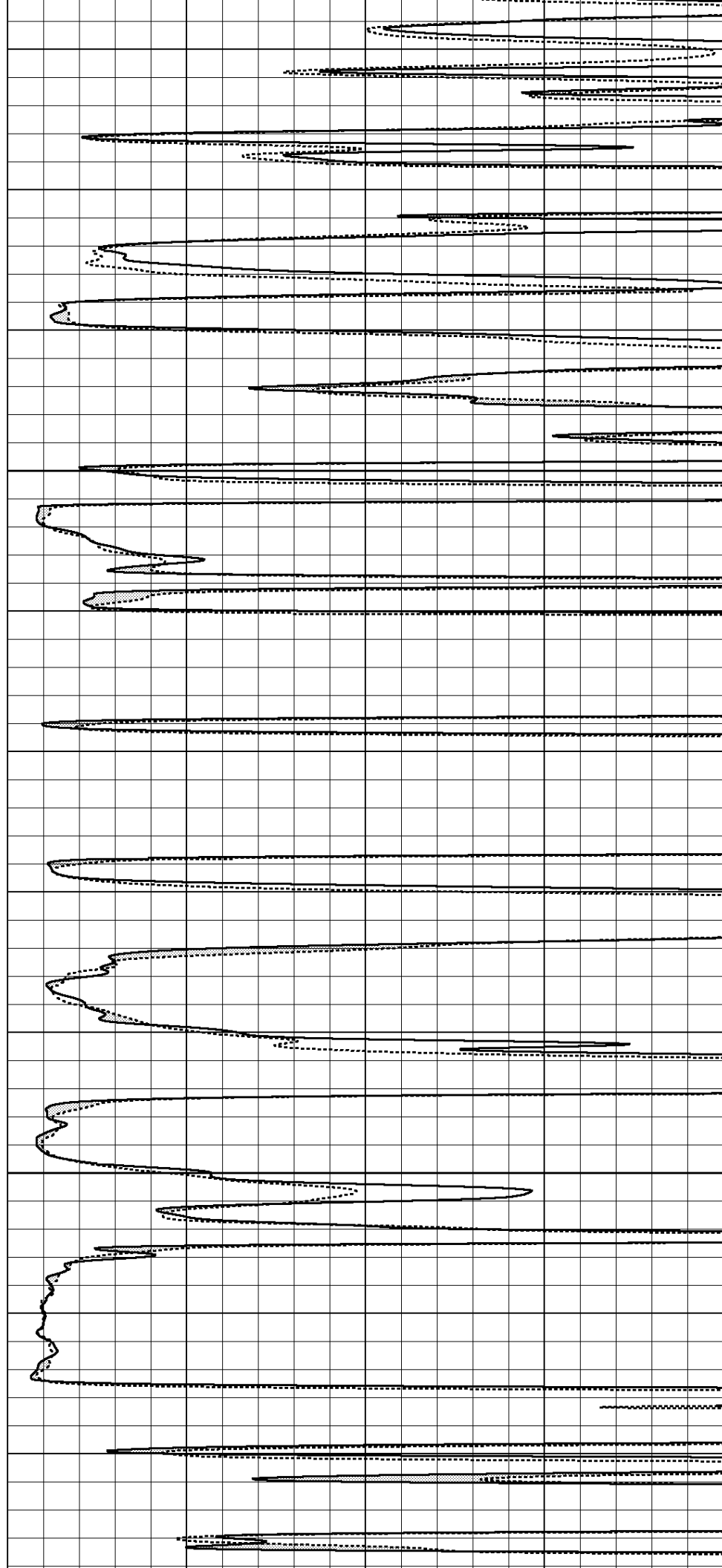


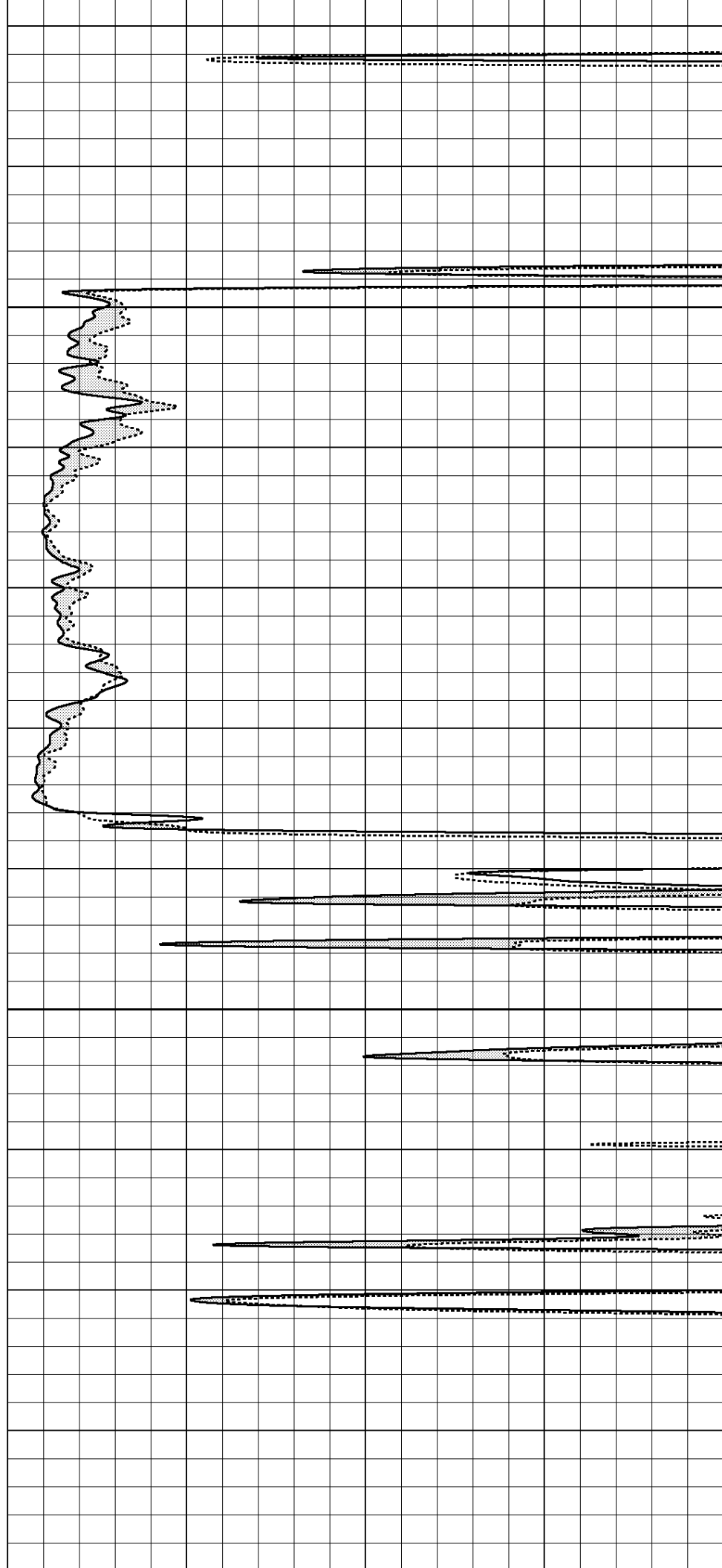
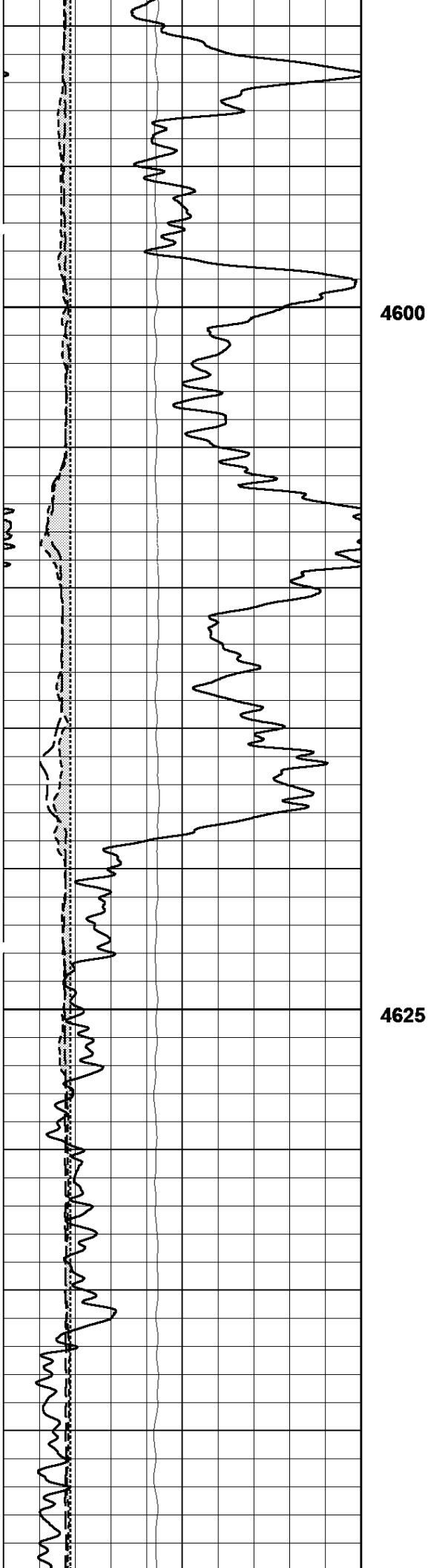
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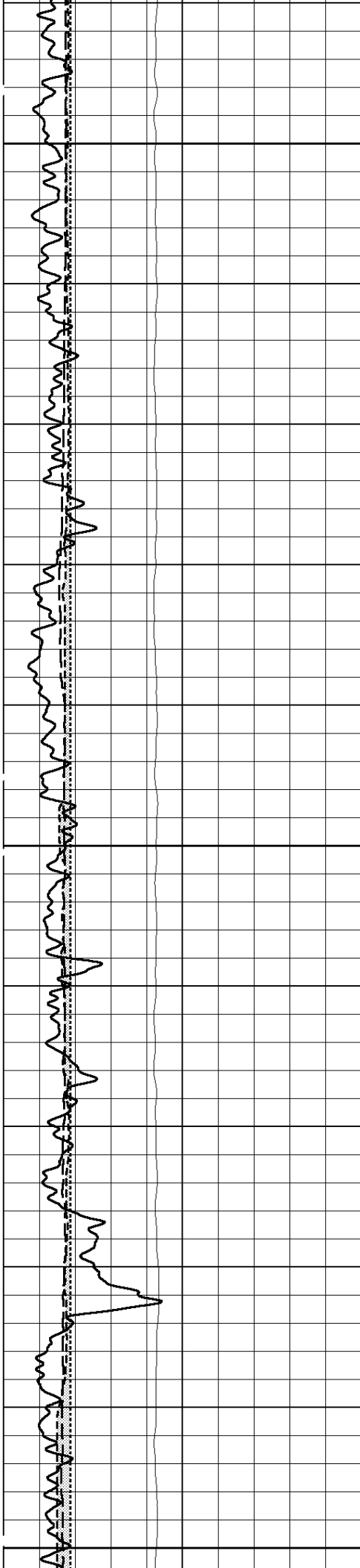


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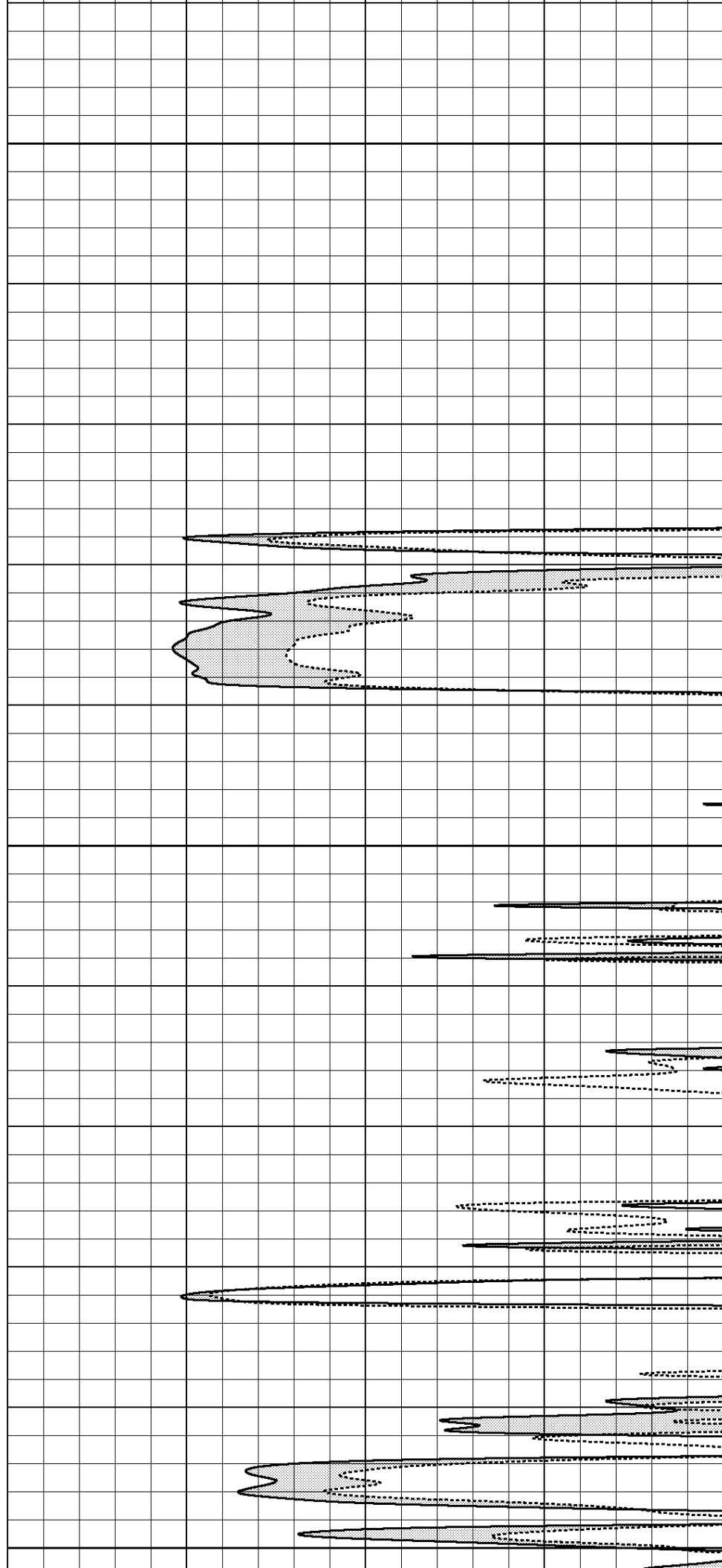


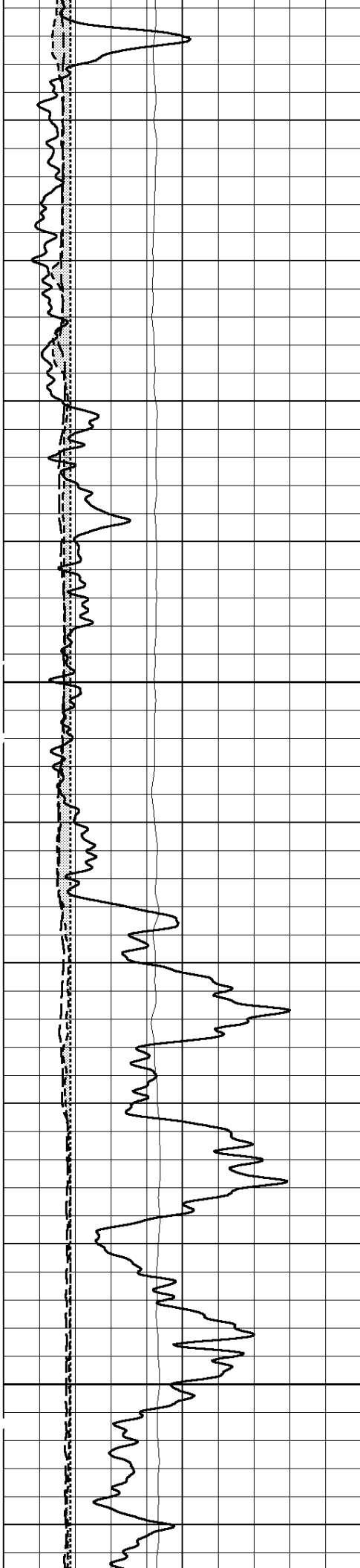


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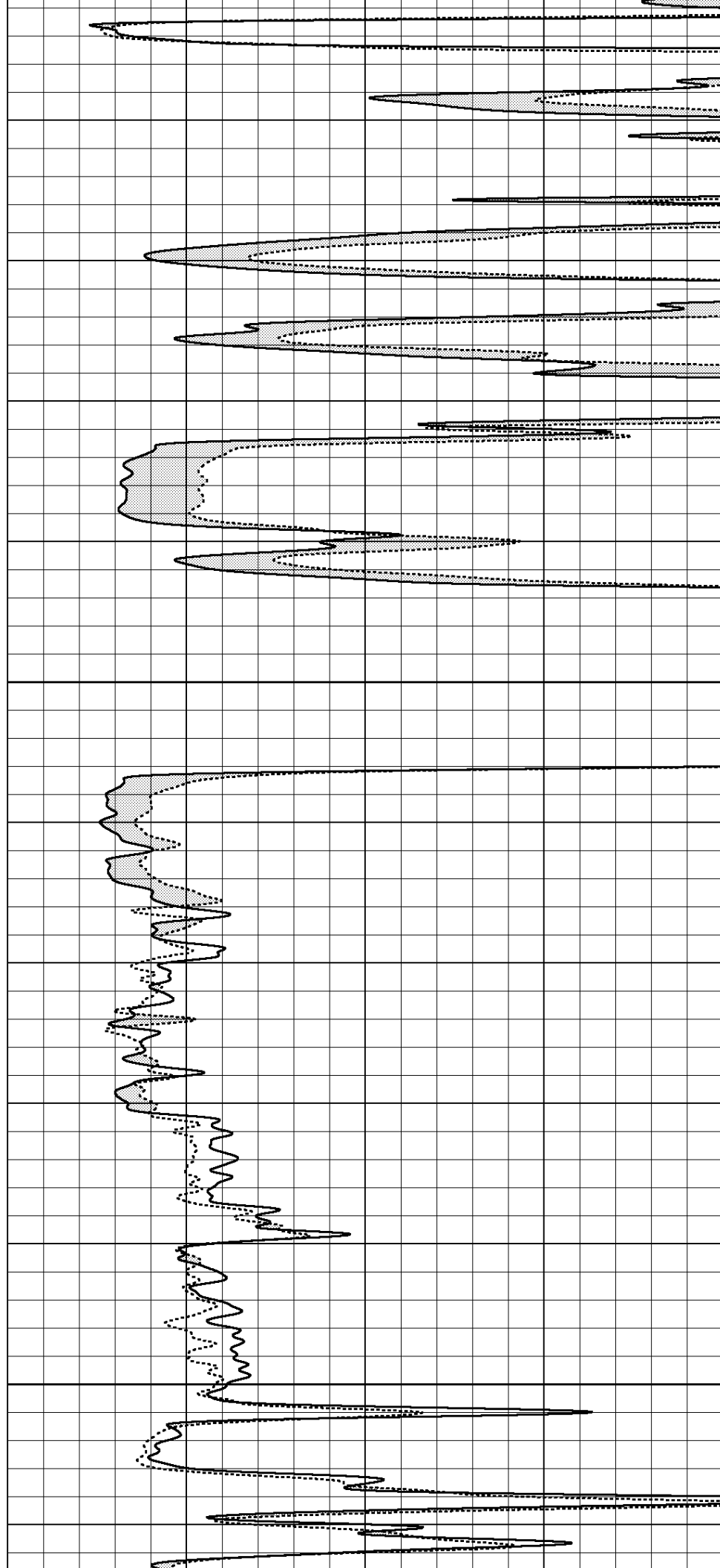
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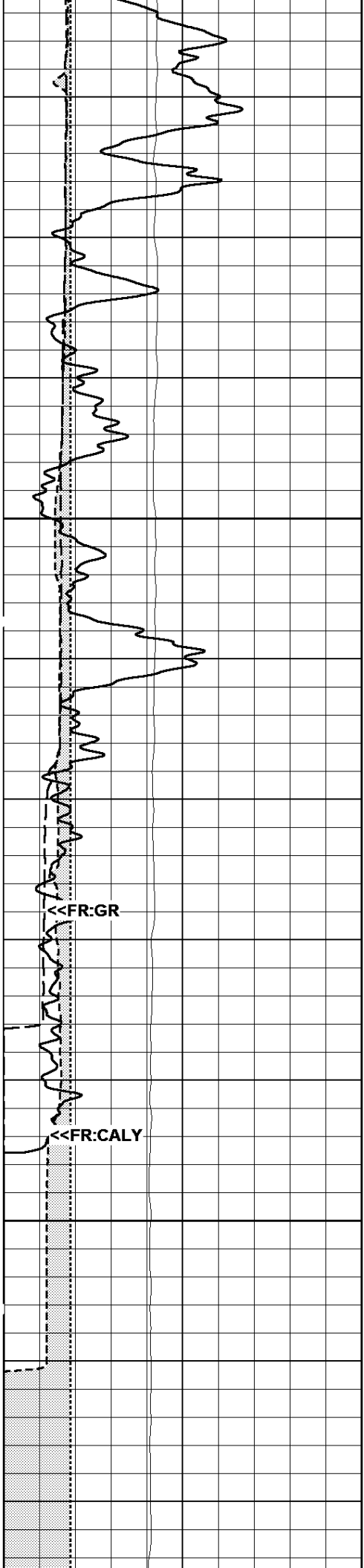




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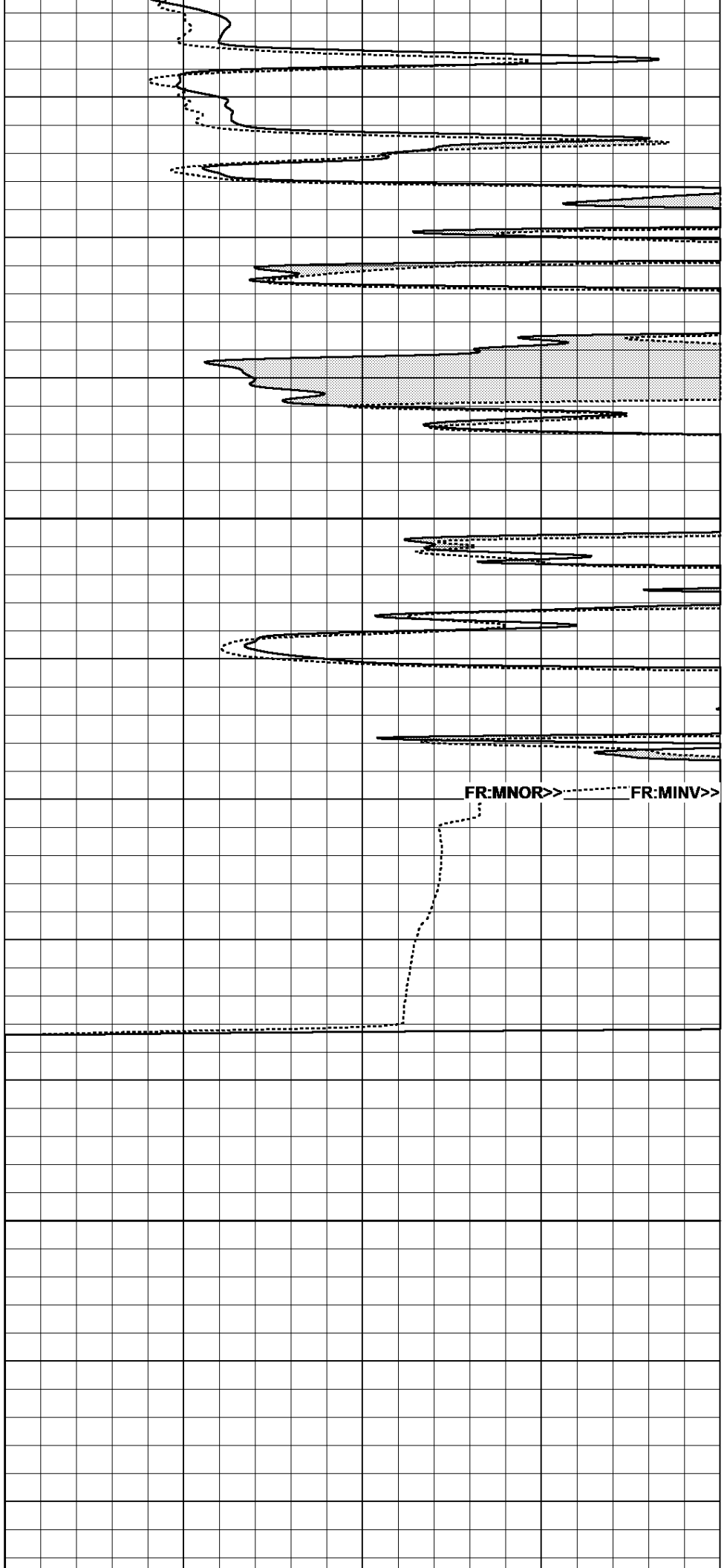
4750





4775

4800



MICRO NORMAL CALIBRATION

SERIAL NUM

RM8008

MASTER CALIBRATIONS

	ZeroVal: 0.010 CPS	CalVal: 10.000 CPS	Gain/Offset	CALIBRATION DATE	CALIBRATION TIME
BASE CALS	31.830 - raw	353.963 - raw	0.031 - gain -0.977 - off	M/D/Y> 12/23/2014	H:M:S> 15:0:43

GAMMA RAY CALIBRATION

SERIAL NUM

RG3015

BLANKET NUM

1A

MASTER CALIBRATIONS

	BackGrnd	CalVal: 159.000 API	Gain/Offset	CALIBRATION DATE	CALIBRATION TIME
BASE CALS	78.600 - raw	486.593 - raw	0.390 - gain 0.000 - off	M/D/Y> 12/23/2014	H:M:S> 16:0:12

WELL SITE CALIBRATIONS

	BackGrnd	CalVal: 100.000 Mknu	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

RN2016

MASTER CALIBRATIONS

	ZeroVal: 6.000 IN	CalVal: 10.000 IN	Gain/Offset	CALIBRATION DATE	CALIBRATION TIME
BASE CALS	605.241 - raw	1293.665 - raw	0.006 - gain 2.483 - off	M/D/Y> 12/23/2014	H:M:S> 15:46:1

MICRO CALIPER CALIBRATION

SERIAL NUM

RM8008

MASTER CALIBRATIONS

	ZeroVal: 6.000 mm	CalVal: 10.000 mm	Gain/Offset	CALIBRATION DATE	CALIBRATION TIME
BASE CALS	1865.573 - raw	3960.708 - raw	0.002 - gain 2.438 - off	M/D/Y> 12/23/2014	H:M:S> 15:9:21

Company

RED OAK ENERGY, INC.

Well

MATHERS #1-2

Field

WILDCAT

County

LOGAN

State

KANSAS

RECON

**MICROLOG
GAMMA RAY
X-Y CALIPER**