

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



MICROLOG
GAMMA RAY
X-Y CALIPER

SEC	TWP	RGE	OTHER SERVICES:
16	20S	38W	DML
Location: 1997' F-1 & 1822' F-2			LDT
SURE - SAME			
AP# 15-203-20288-00-00			
SW NE NW SE			
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
TD RECON	5055 ft
Bot Logged Interval	5054 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	Chemical
Density	9.2 lb/gal
Fluid Loss	8.8 ml/30min
PH	9.0 strtp
Source Of Sample	Flowline
RM @ Measured Temp	0.457 Ohmm @ 75
RMF @ Measured Temp	0.343 Ohmm @ 75
RMC @ Measured Temp	0.571 Ohmm @ 75
RM @ MRT	0.279 Ohmm @ 127
Max Recorded Temp	127 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	M.R. 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
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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.

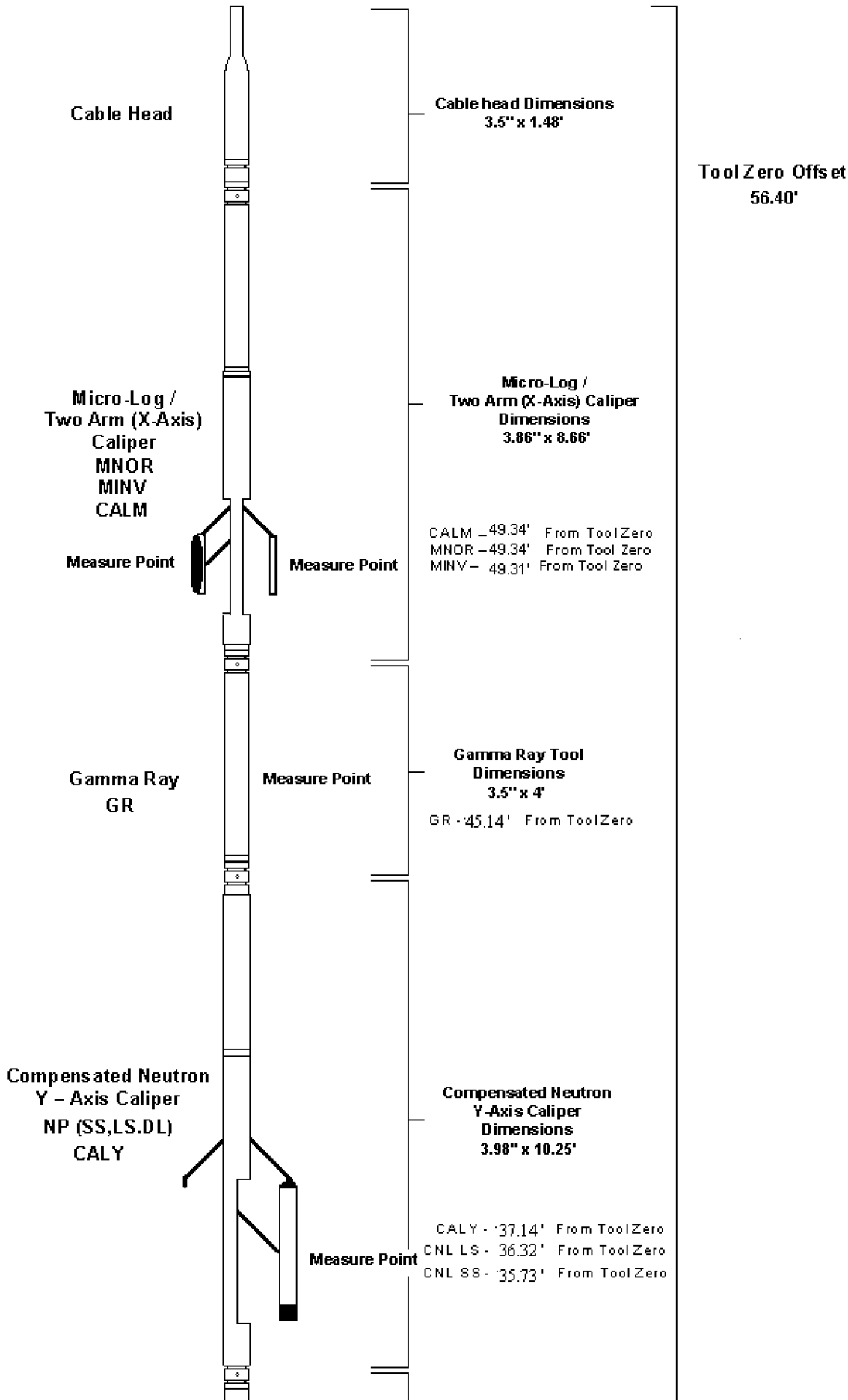
CHLORIDES: 5300 ppm
 LCM: 2 lbs/bbl

THANK YOU FOR USING RECON PETROTECHNOLOGIES LTD.

AHV CALCULATED ON 5.5" PROD. CASING

CREW: M. CALLENTINE, 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 - 22.93' From ToolZero
LDT w3 -
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

**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**



11/23/2014

MAIN PASS (5"/100Ft)

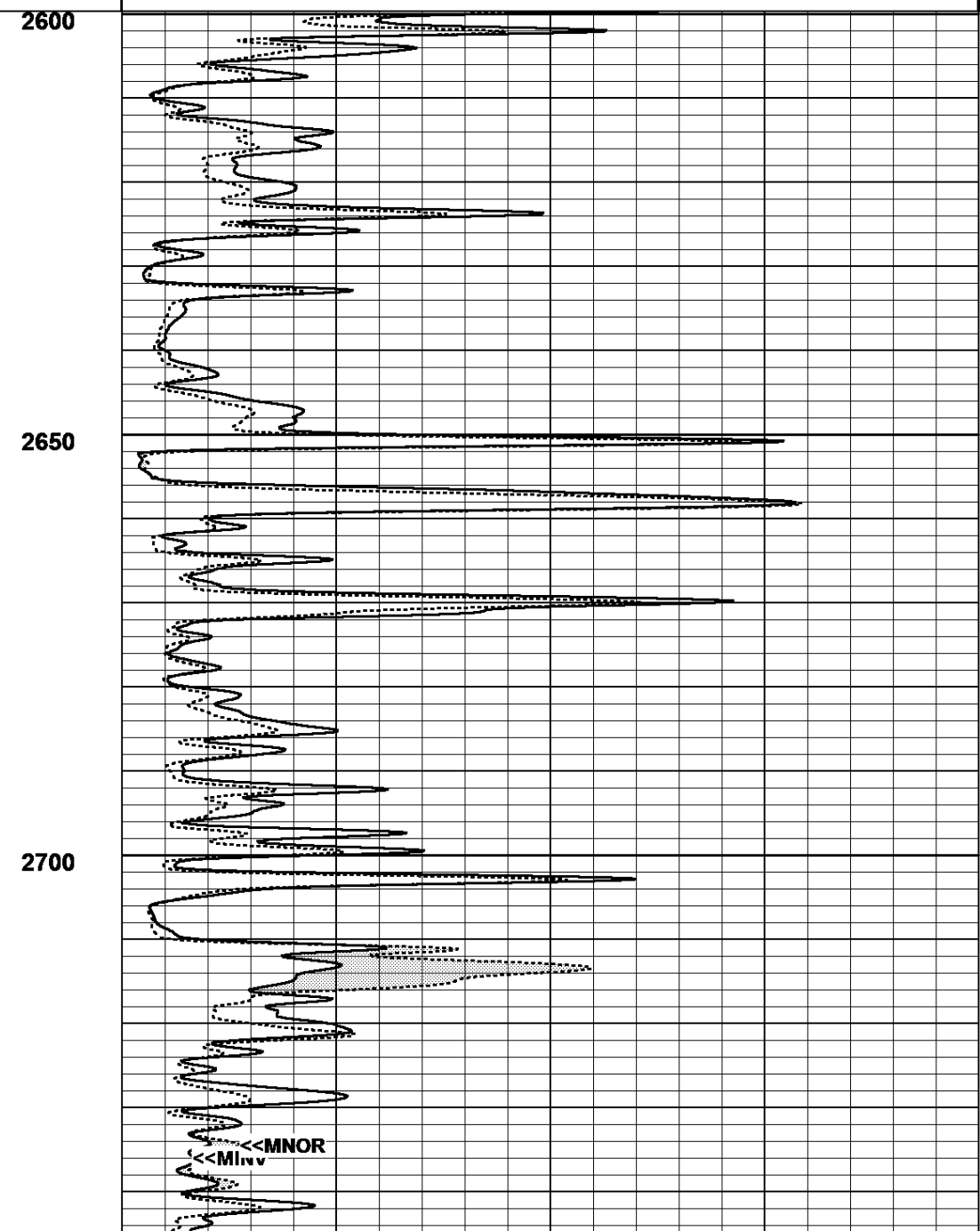
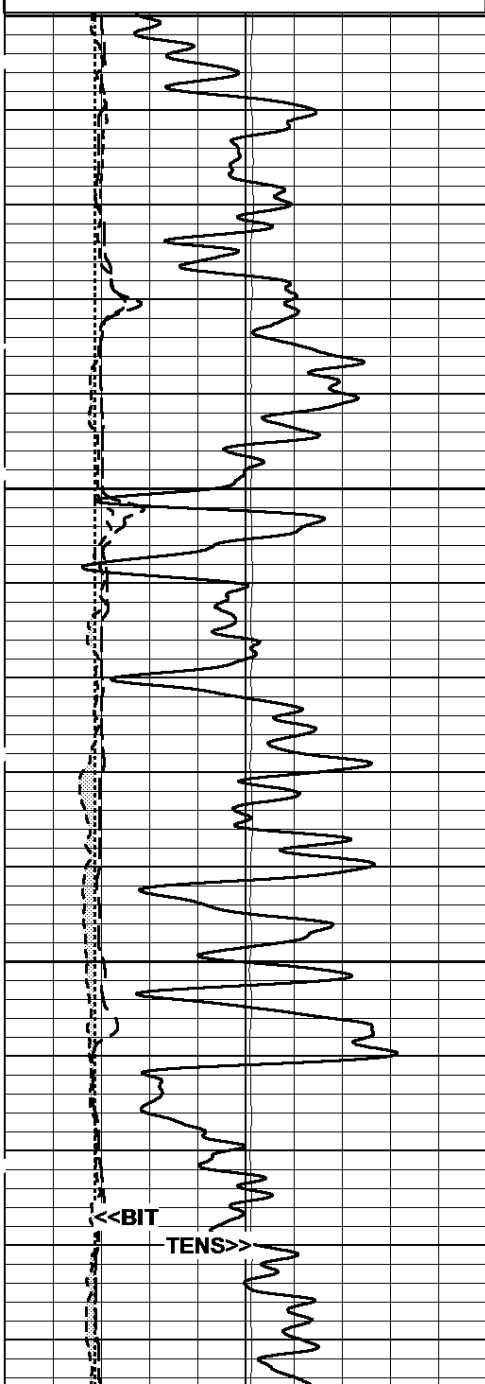
Log UP - (VER 11.19)

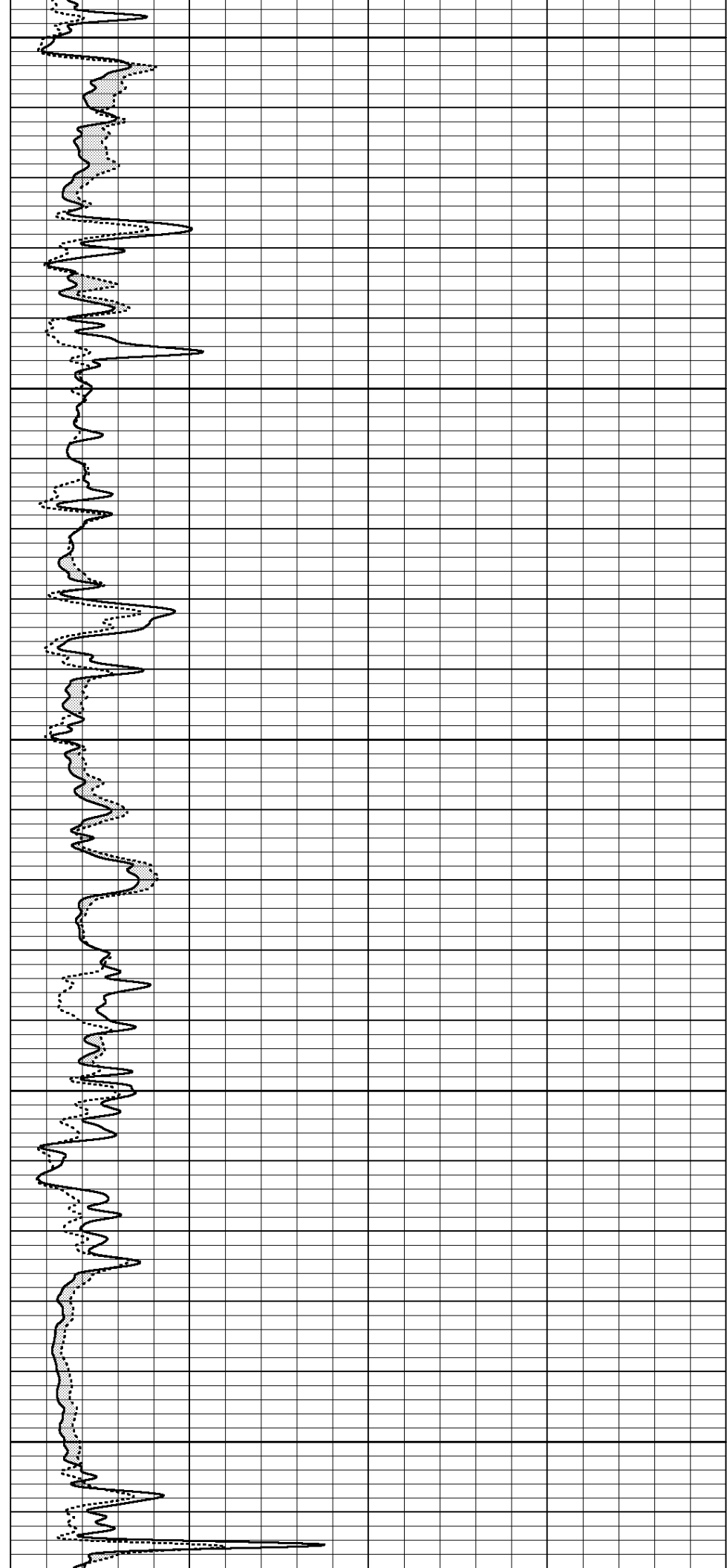
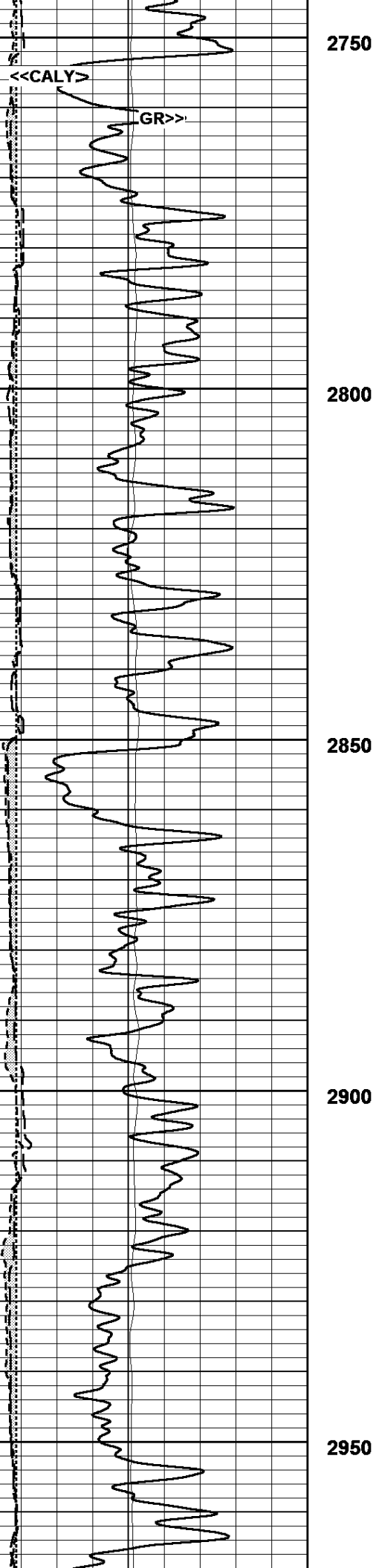
13:57:00 => End Time

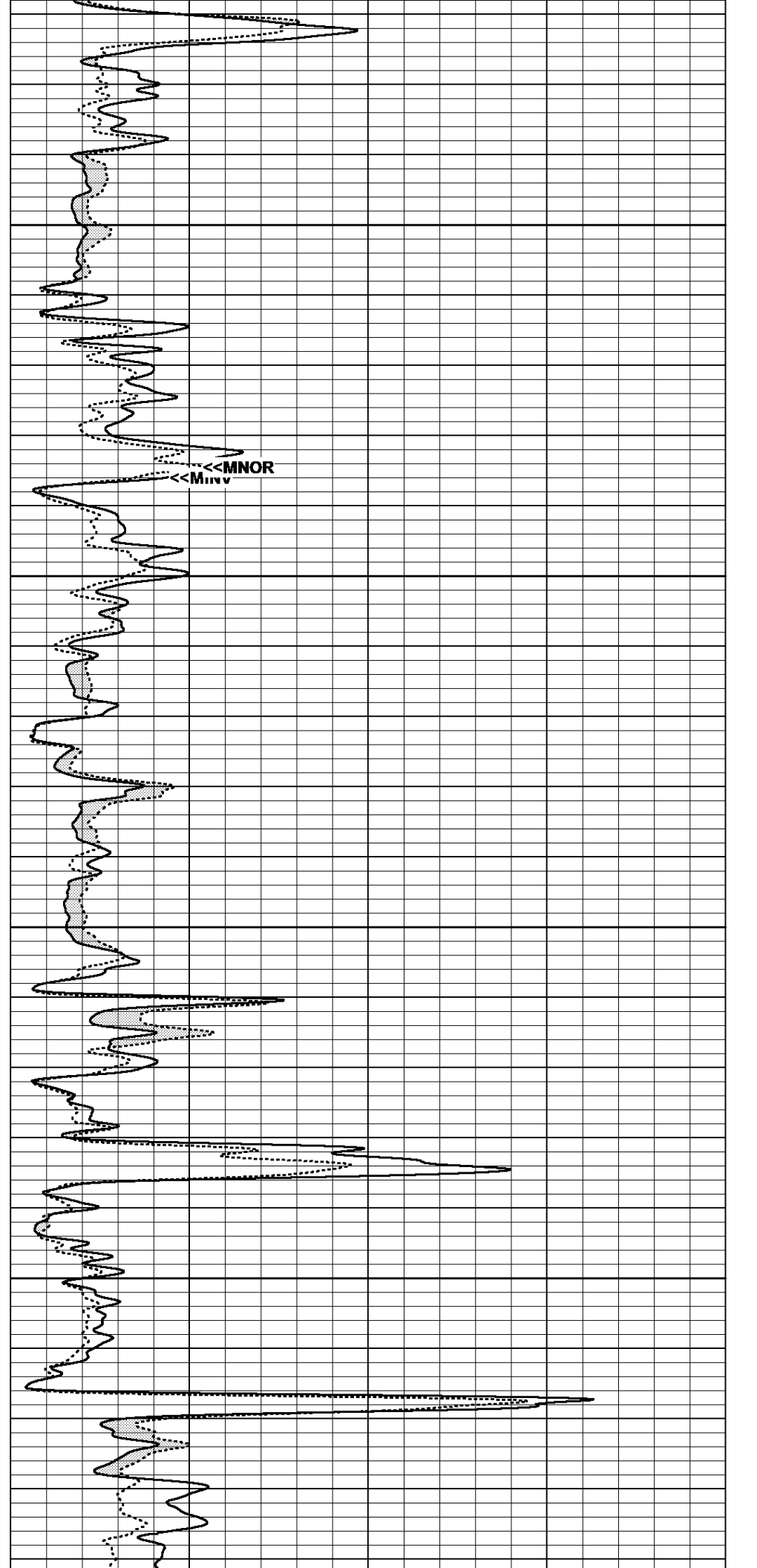
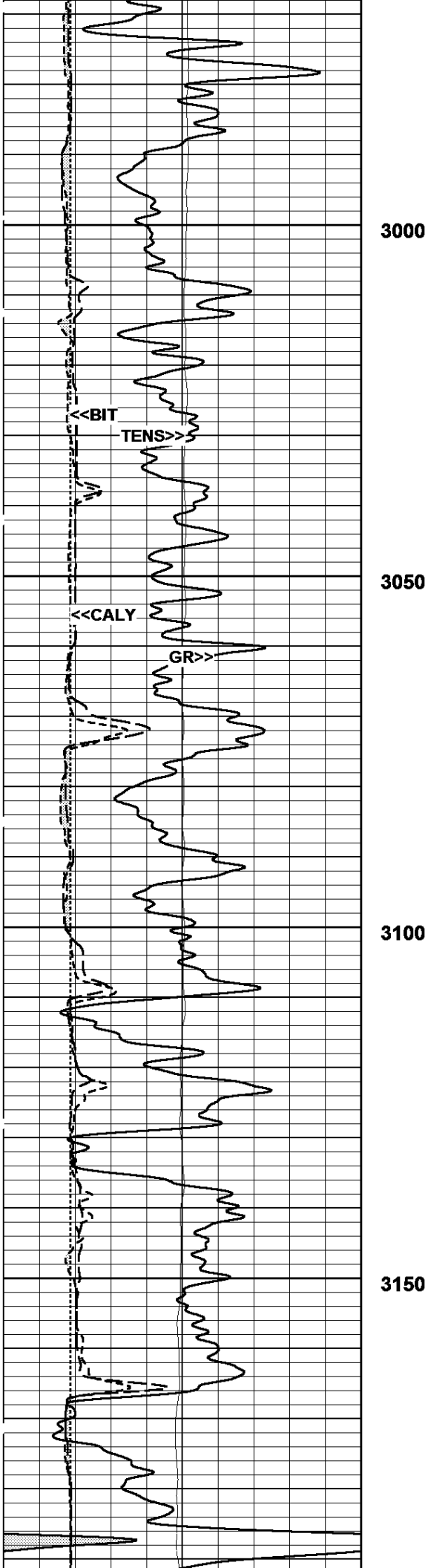
End Depth=> 2599.90 Feet

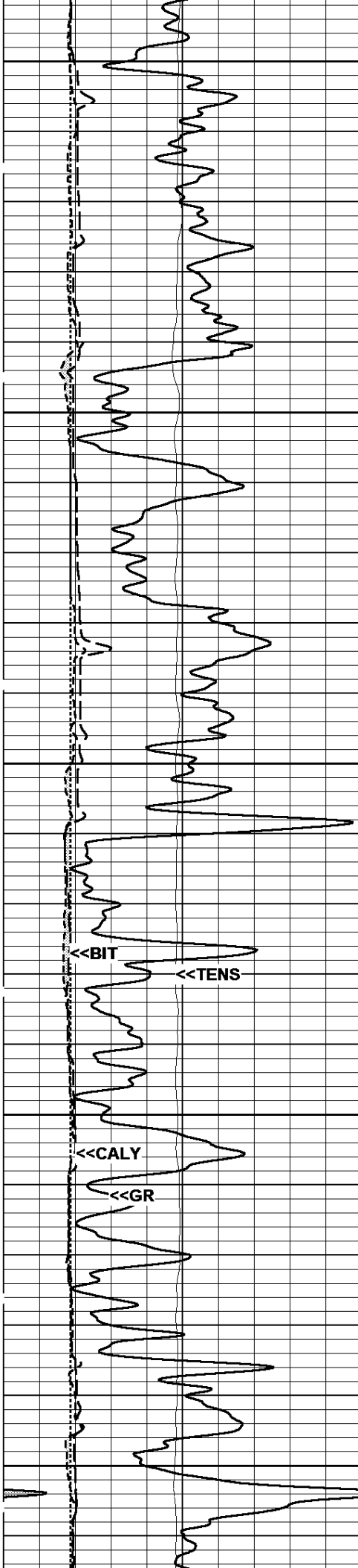
MicroLog-Caliper		
6.	in	16.
Bit Size (BIT)		
6.	Ref in	16.
Tension (TENS)		
5000.	Lbs	0.
Y-Caliper (CALY)		
6.	in	16.
Gamma Ray (GR)		
0.	API	150.

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









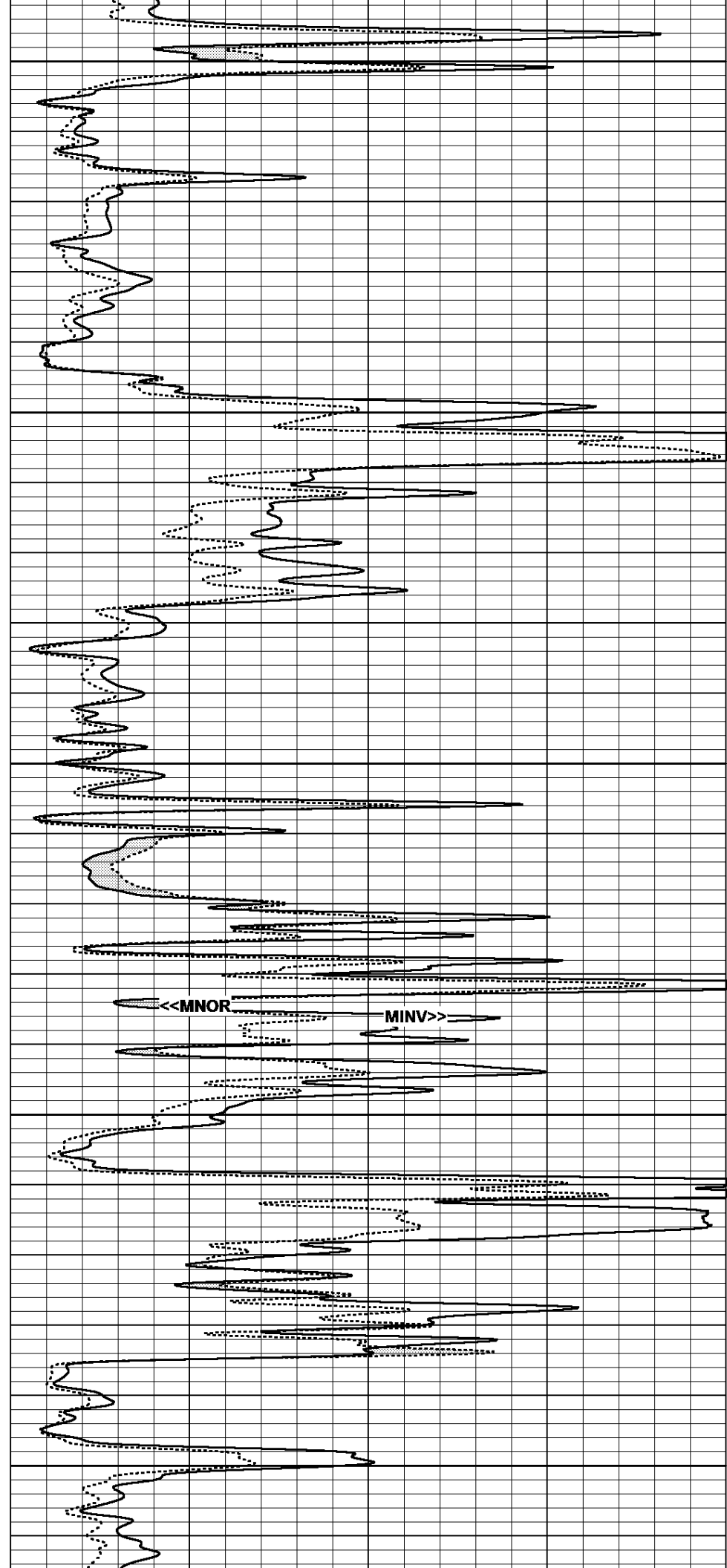
3200

3250

3300

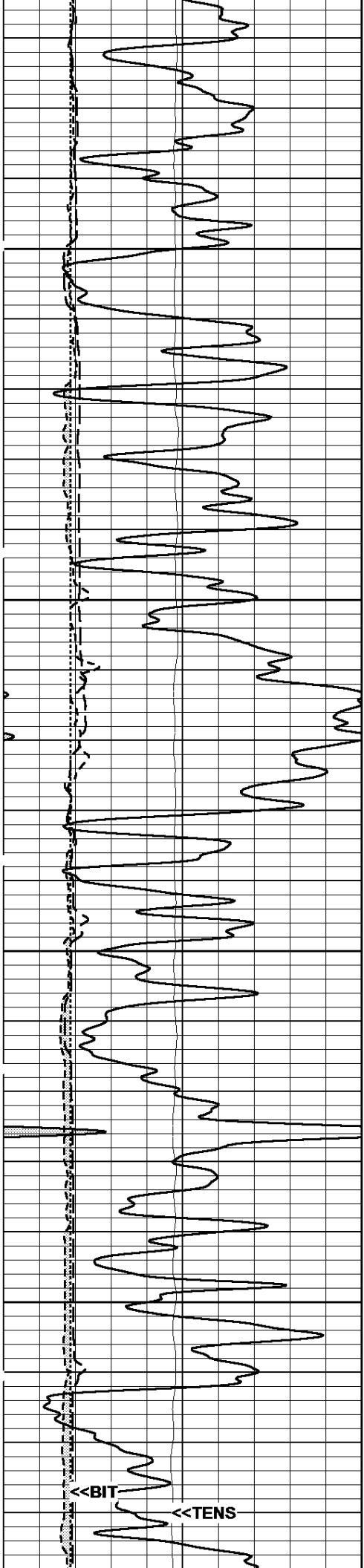
3350

3400



<<MNOR

MINV>>

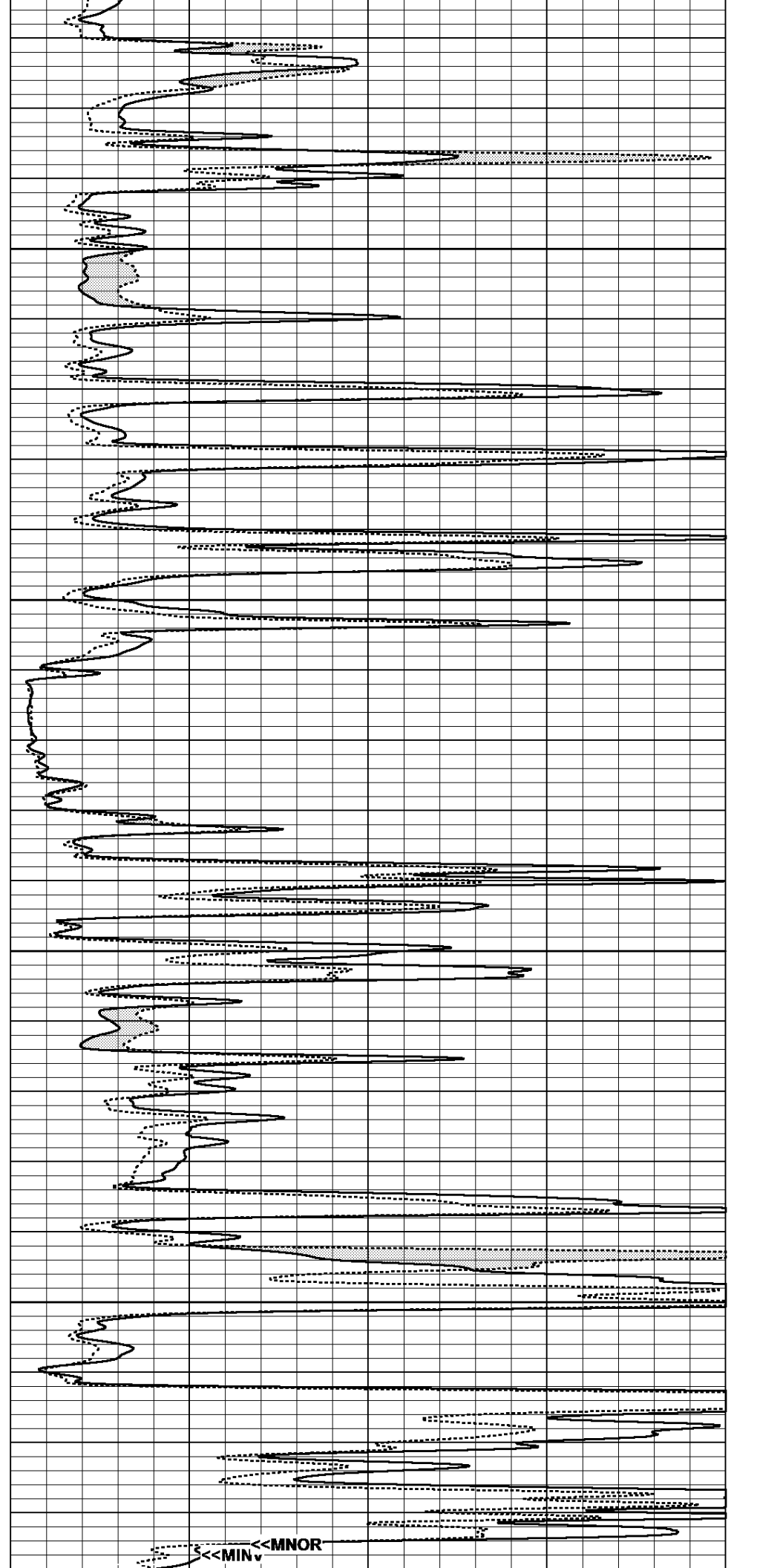


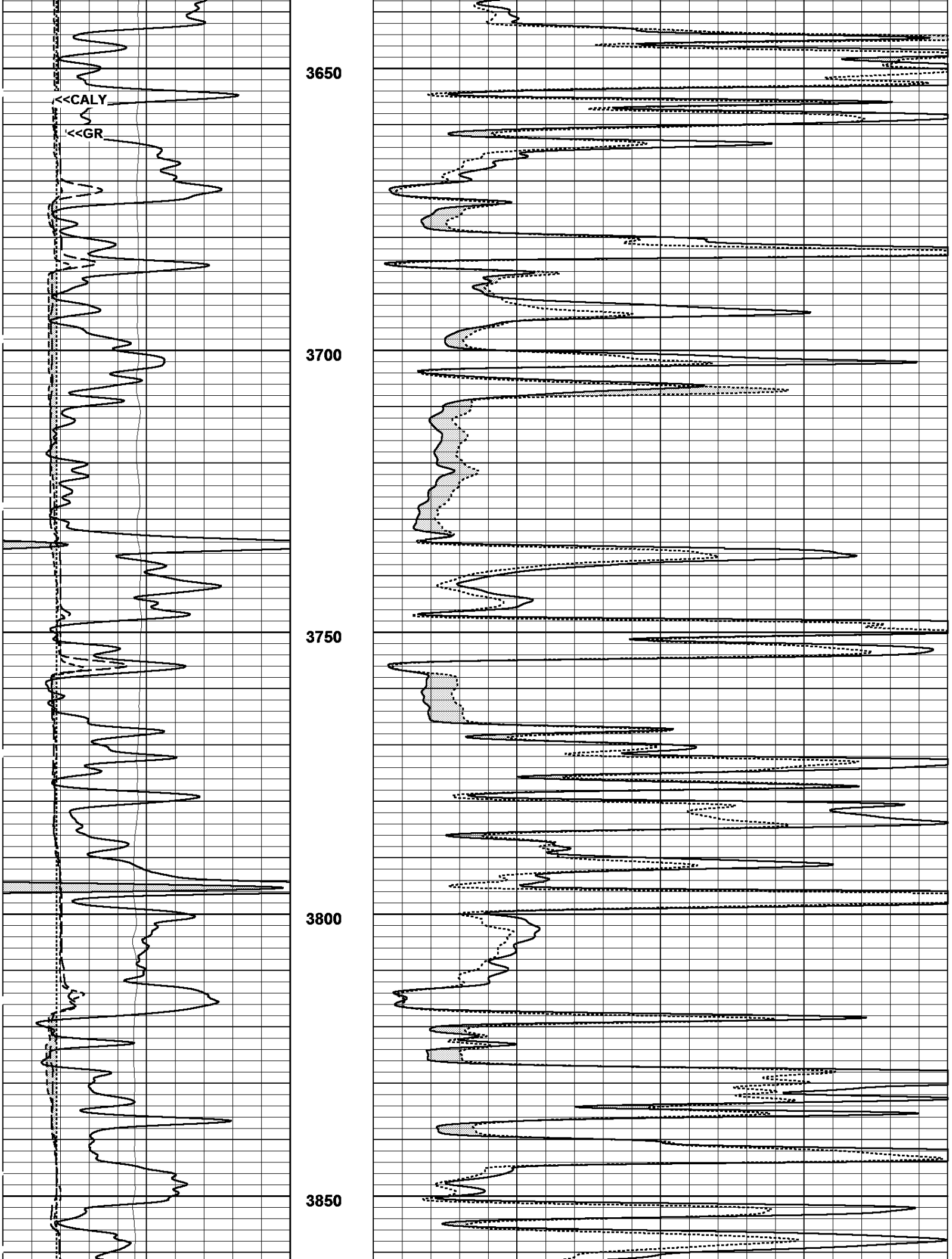
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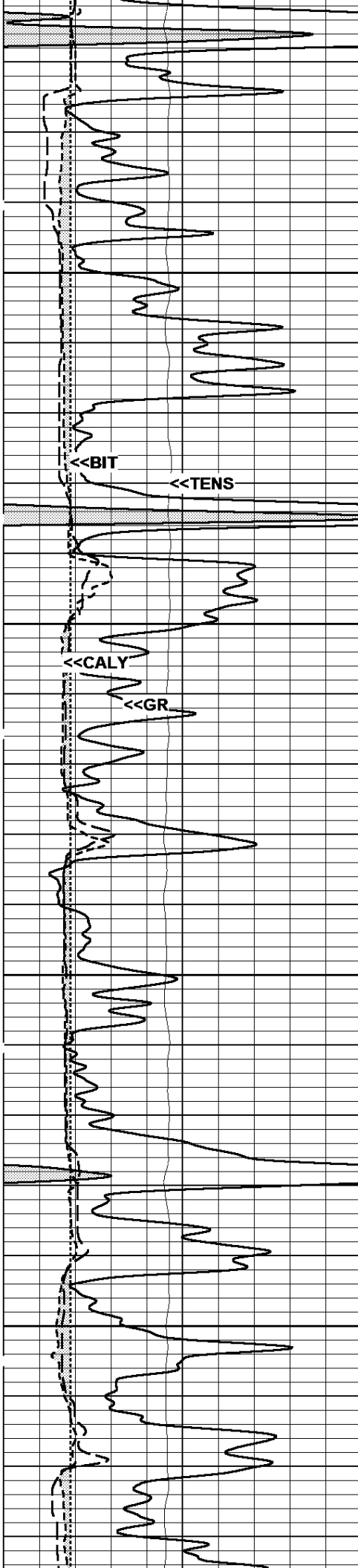
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3550

3600





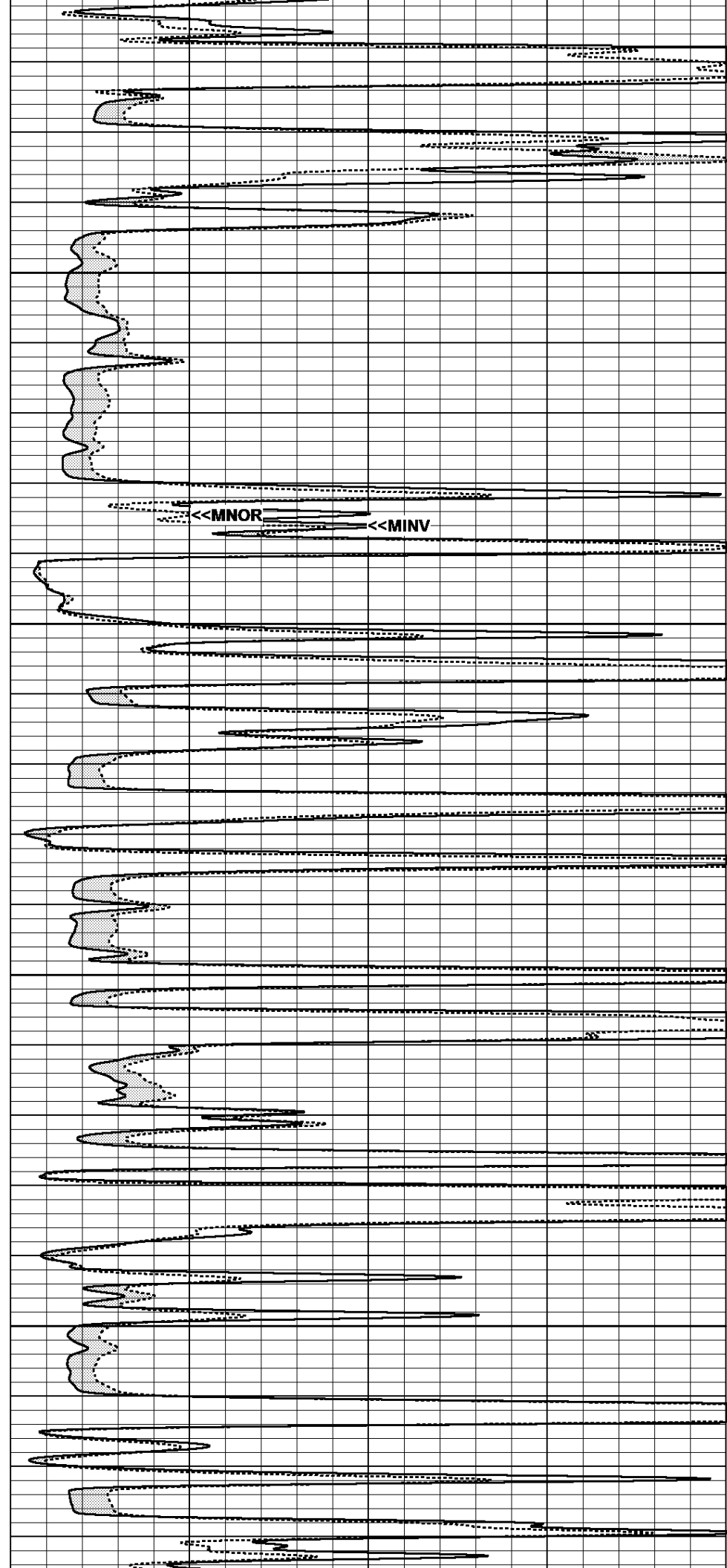


3900

3950

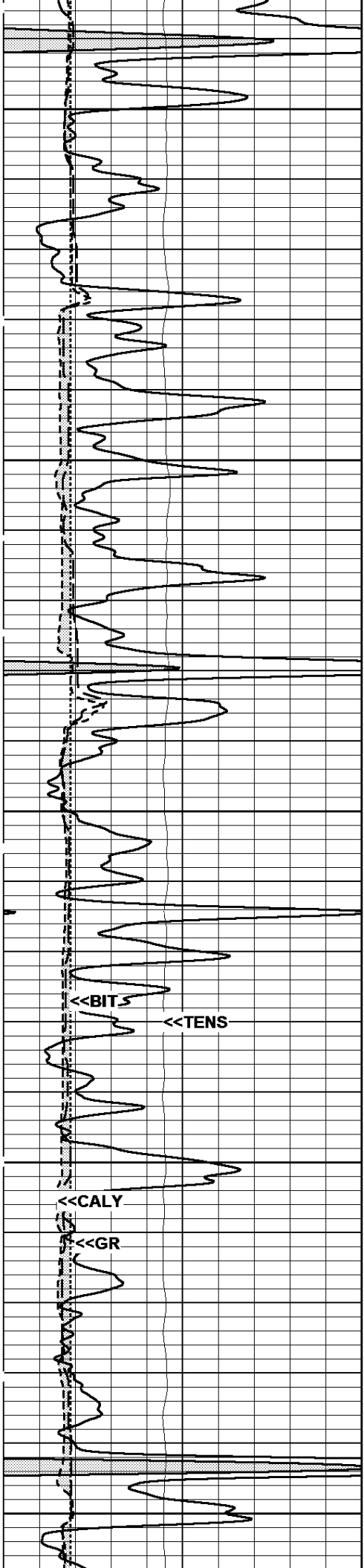
4000

4050



<<MNOR

<<MINV



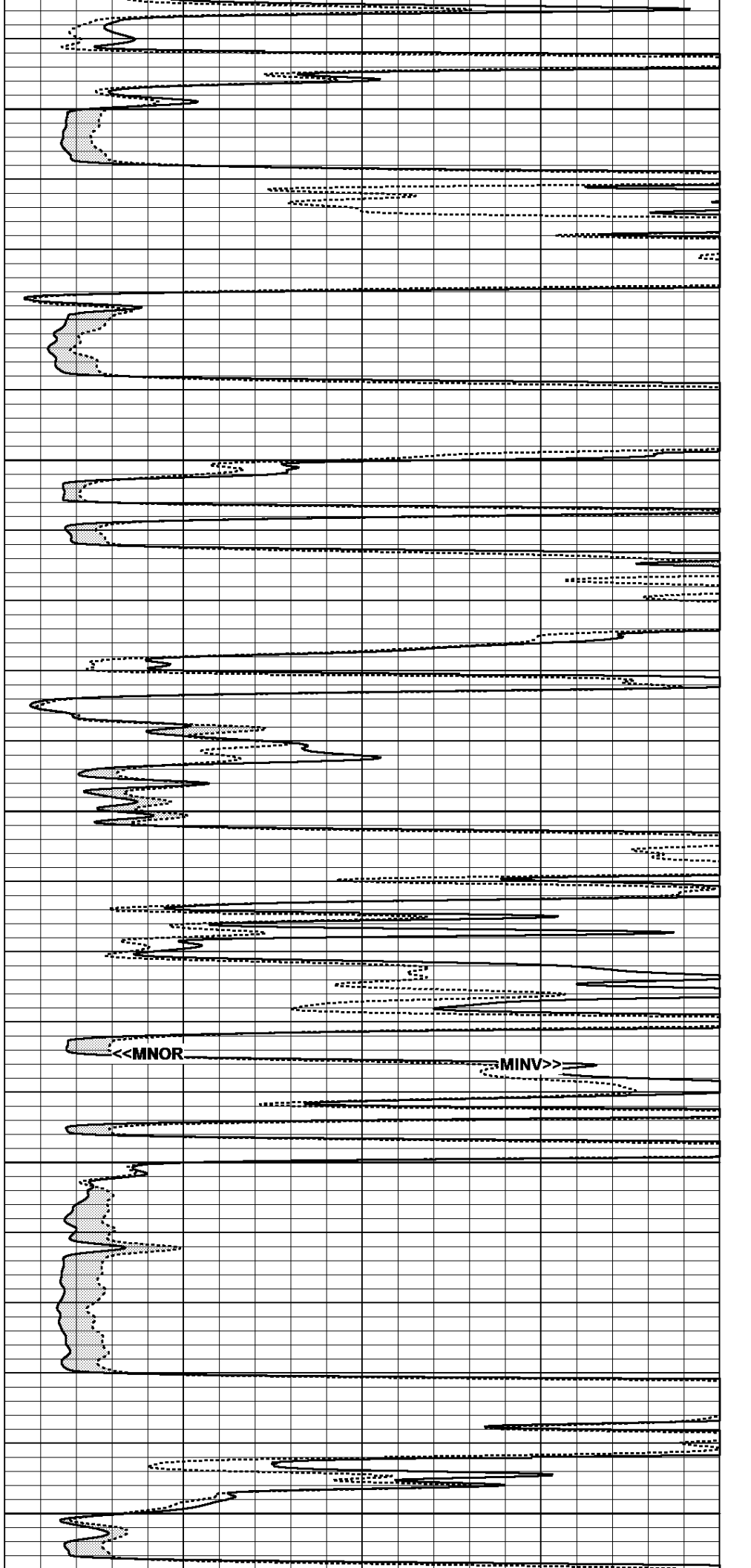
4100

4150

4200

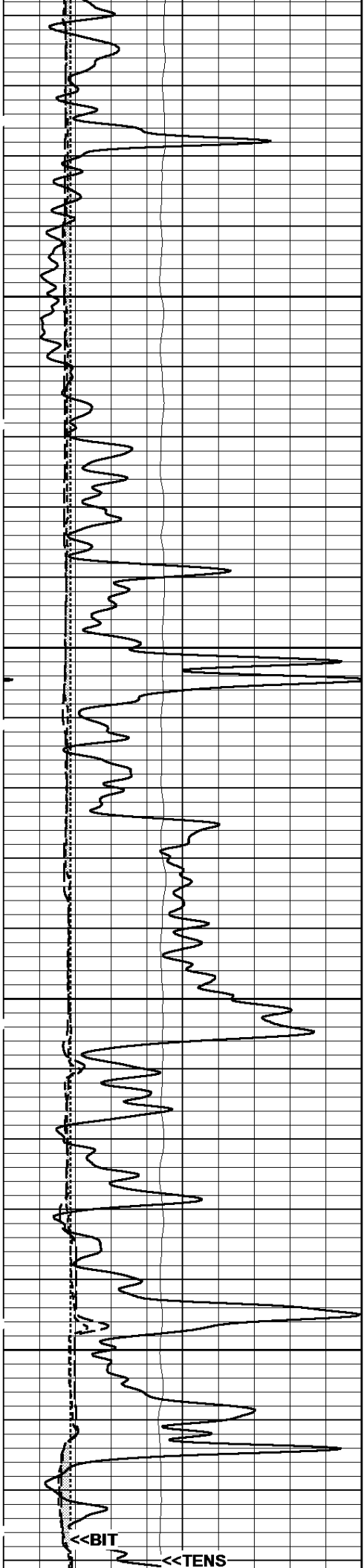
4250

4300



<<MNOR

<<MINV>>

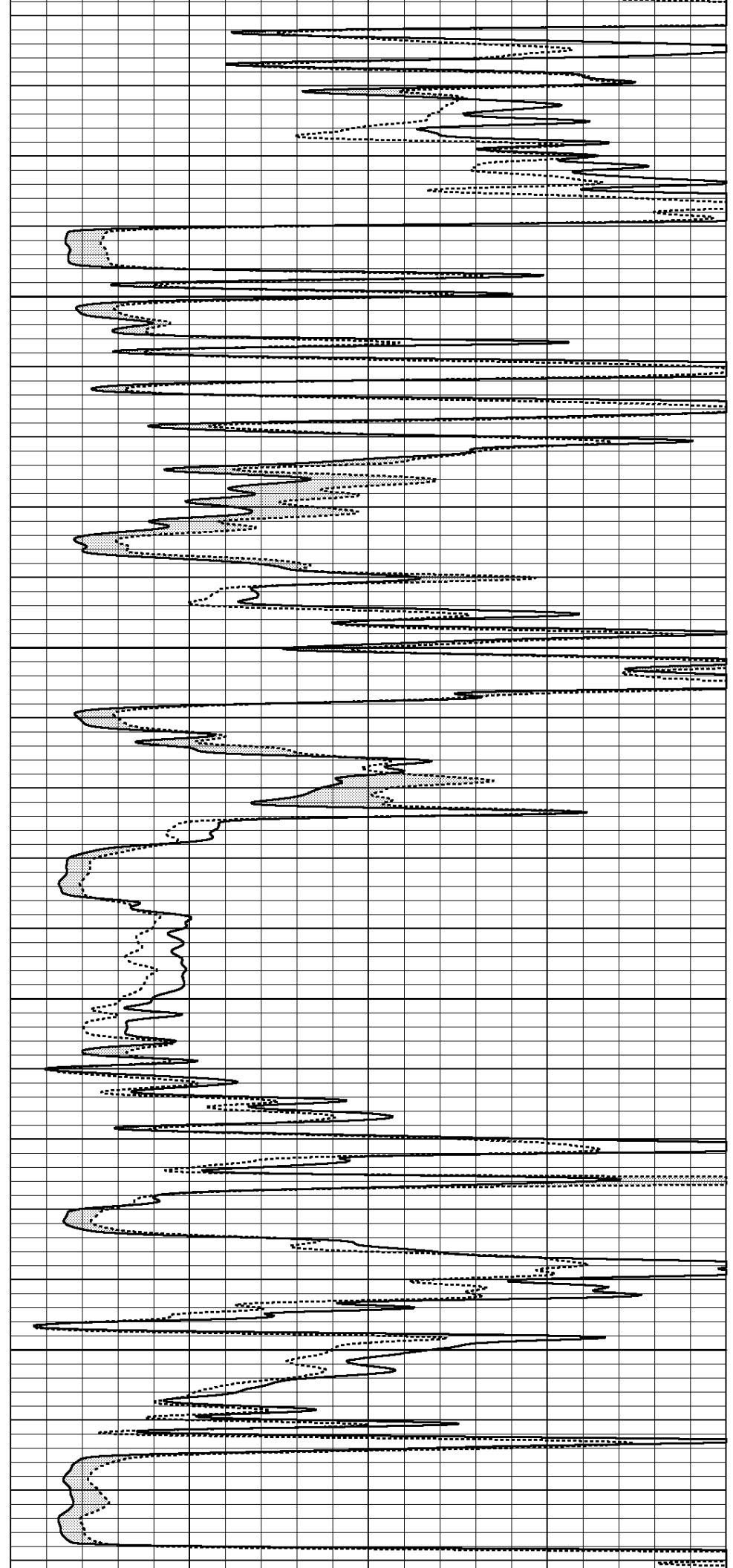


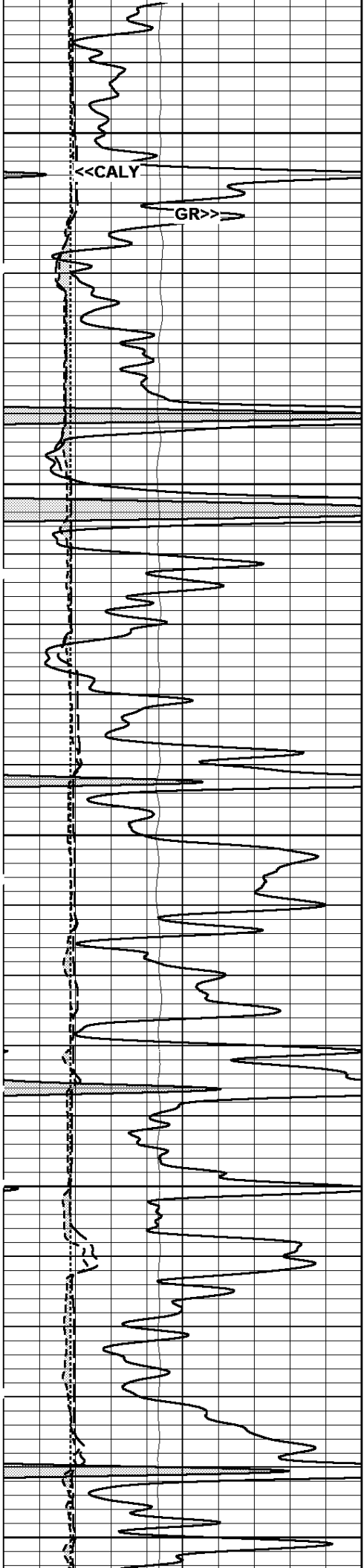
4350

4400

4450

4500





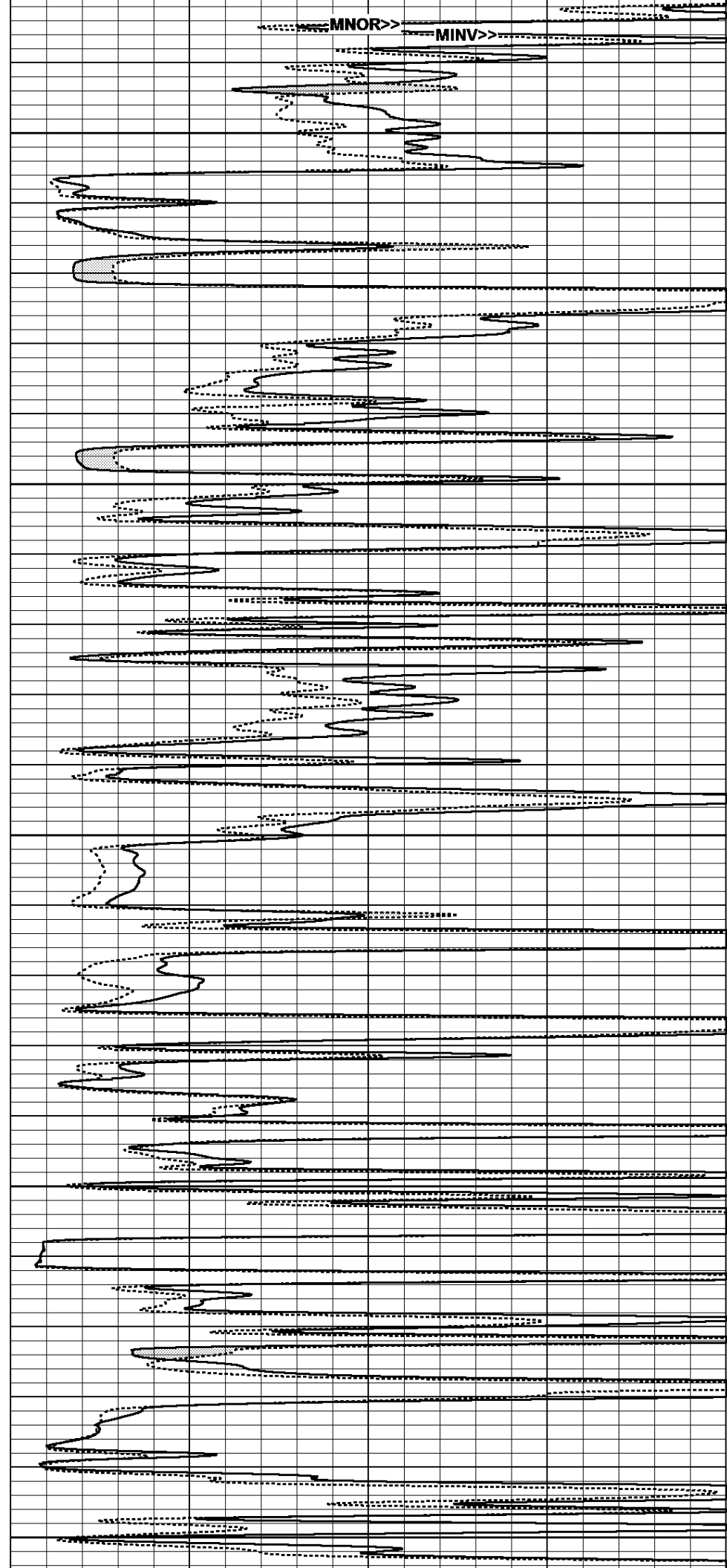
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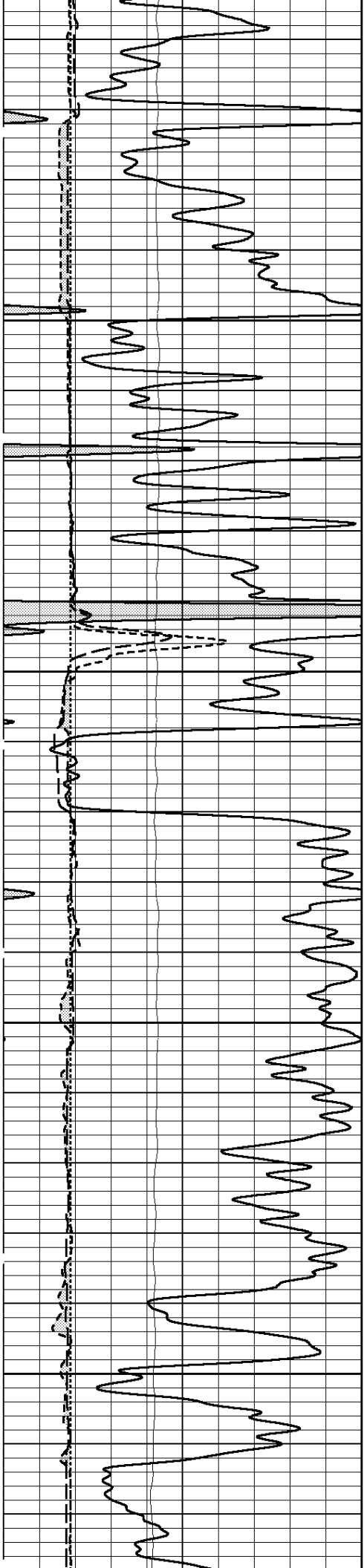
4600

4650

4700

4750



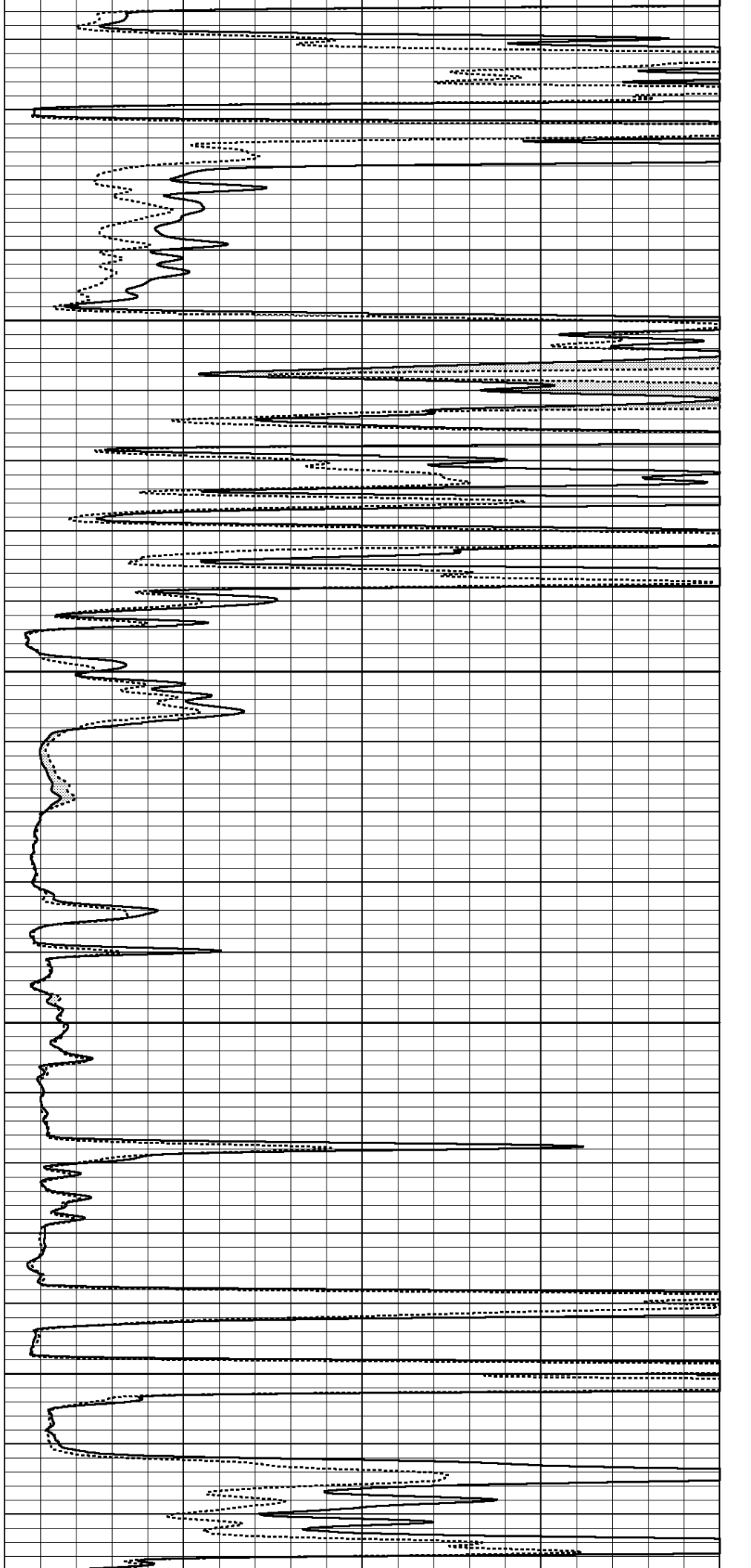


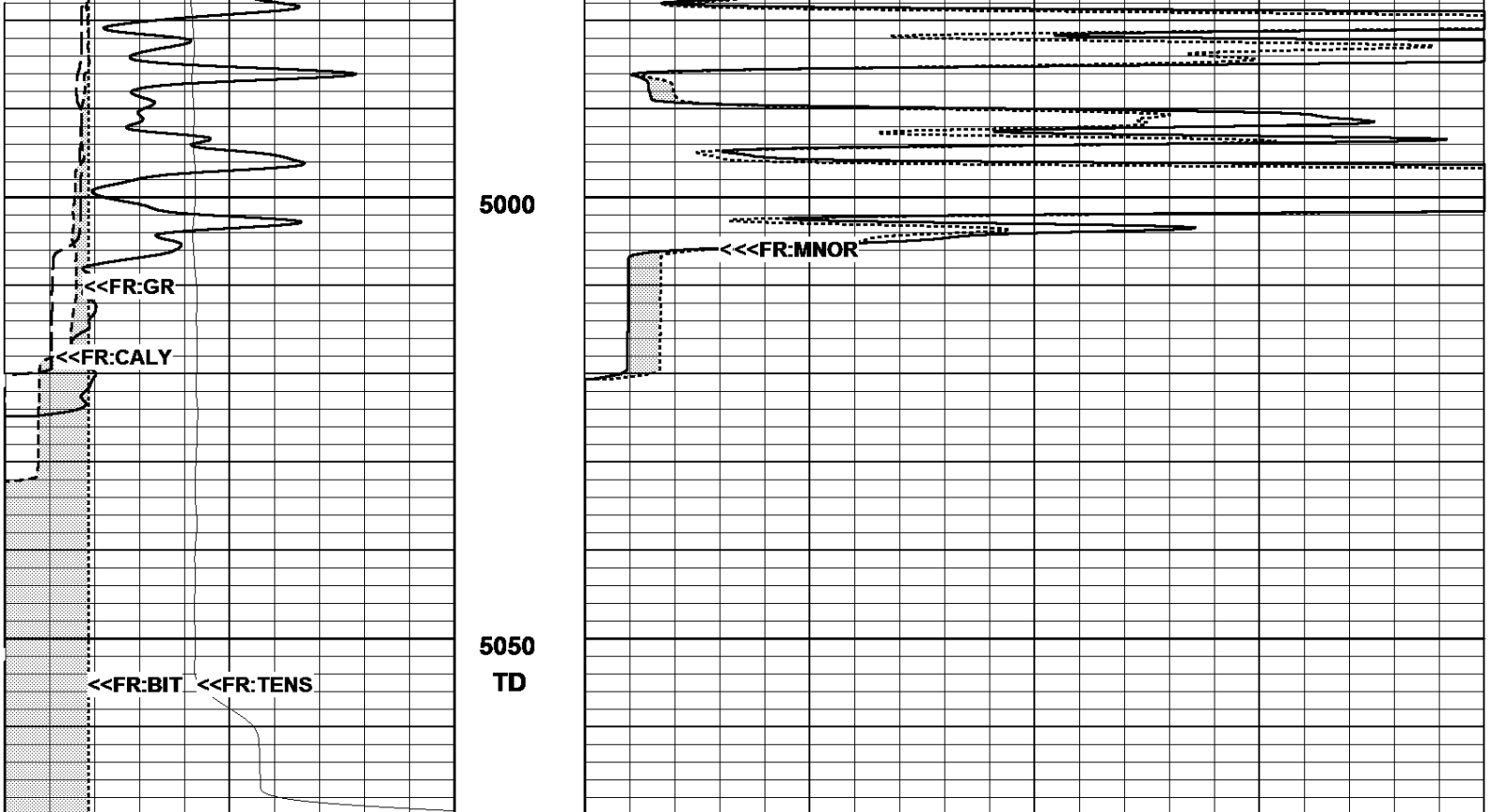
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4900

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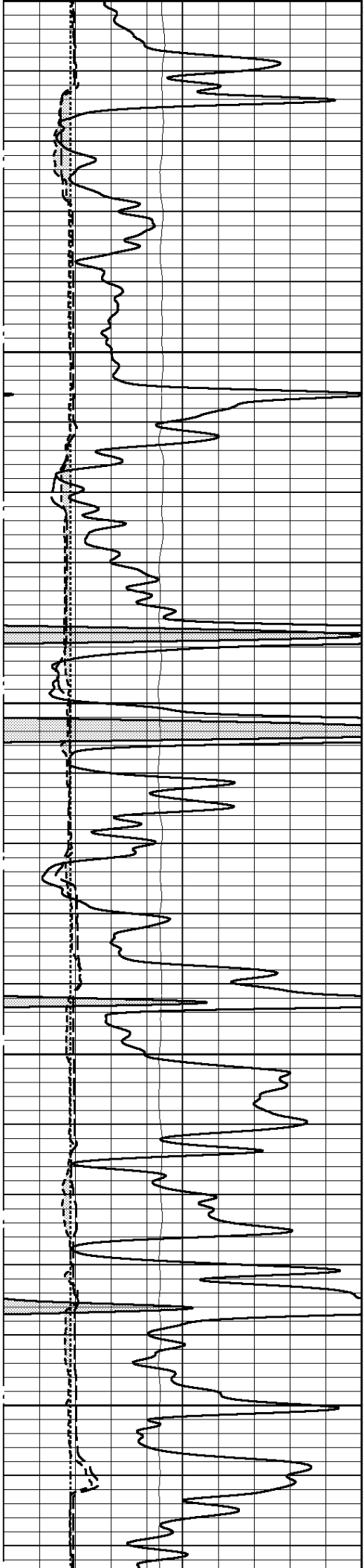


<p>Gamma Ray (GR)</p> <p>0. API 150.</p>	<p>Micro-Inverse{1"} (MINV)</p> <p>0. ohms 40.</p>
<p>Y-Caliper (CALY)</p> <p>6. in 16.</p>	<p>Micro-Normal{2"} (MNOR)</p> <p>0. ohms 40.</p>
<p>Tension (TENS)</p> <p>5000. Lbs 0.</p>	
<p>Bit Size (BIT)</p> <p>6. Ref in 16.</p>	
<p>MicroLog-Caliper</p> <p>6. in 16.</p>	

11/23/2014 **MAIN PASS (5"/100Ft)** Log UP - (VER 11.19)
 12:19:45 => Start Time Start Depth=> 5069.90 Feet

11/23/2014 **REPEAT PASS (5"/100Ft)** Log UP - (VER 11.19)
 12:01:06 => End Time End Depth=> 4494.90 Feet

<p>MicroLog-Caliper</p> <p>6. in 16.</p>	<p>Micro-Normal{2"} (MNOR)</p> <p>0. ohms 40.</p>
<p>Bit Size (BIT)</p> <p>6. Ref in 16.</p>	<p>Micro-Inverse{1"} (MINV)</p> <p>0. ohms 40.</p>
<p>Tension (TENS)</p> <p>5000. Lbs 0.</p>	
<p>Y-Caliper (CALY)</p> <p>6. in 16.</p>	
<p>Gamma Ray (GR)</p> <p>0. API 150.</p>	



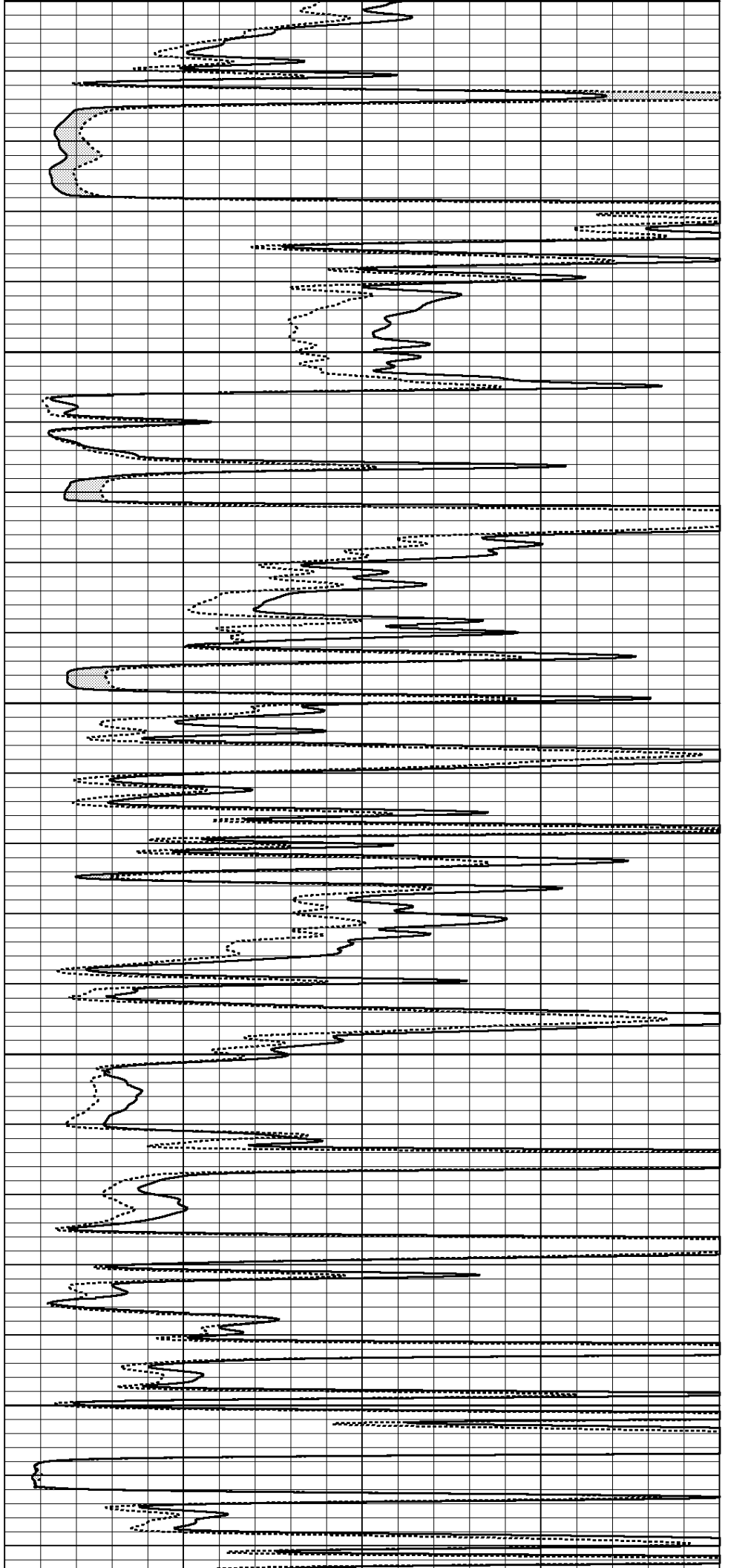
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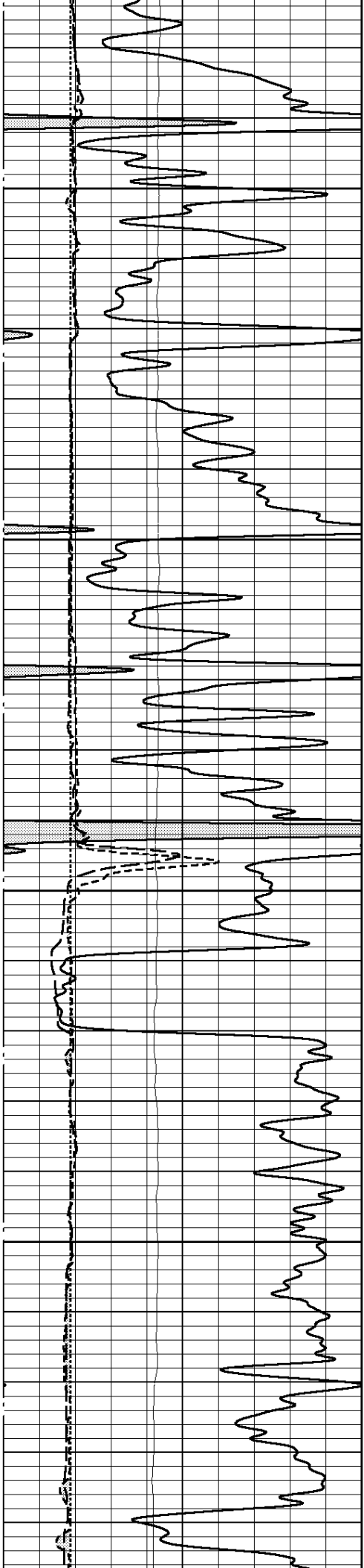
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4600

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4700



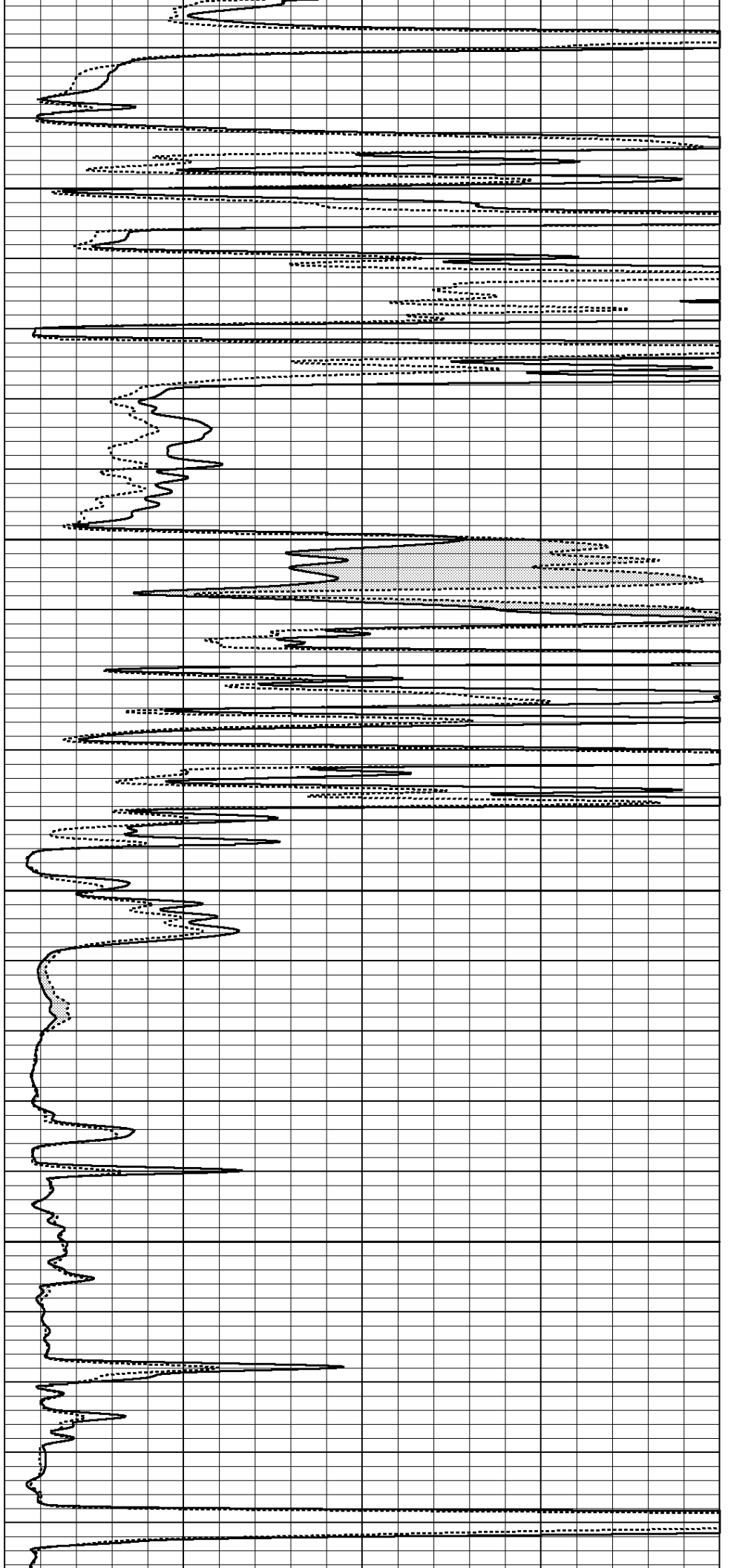


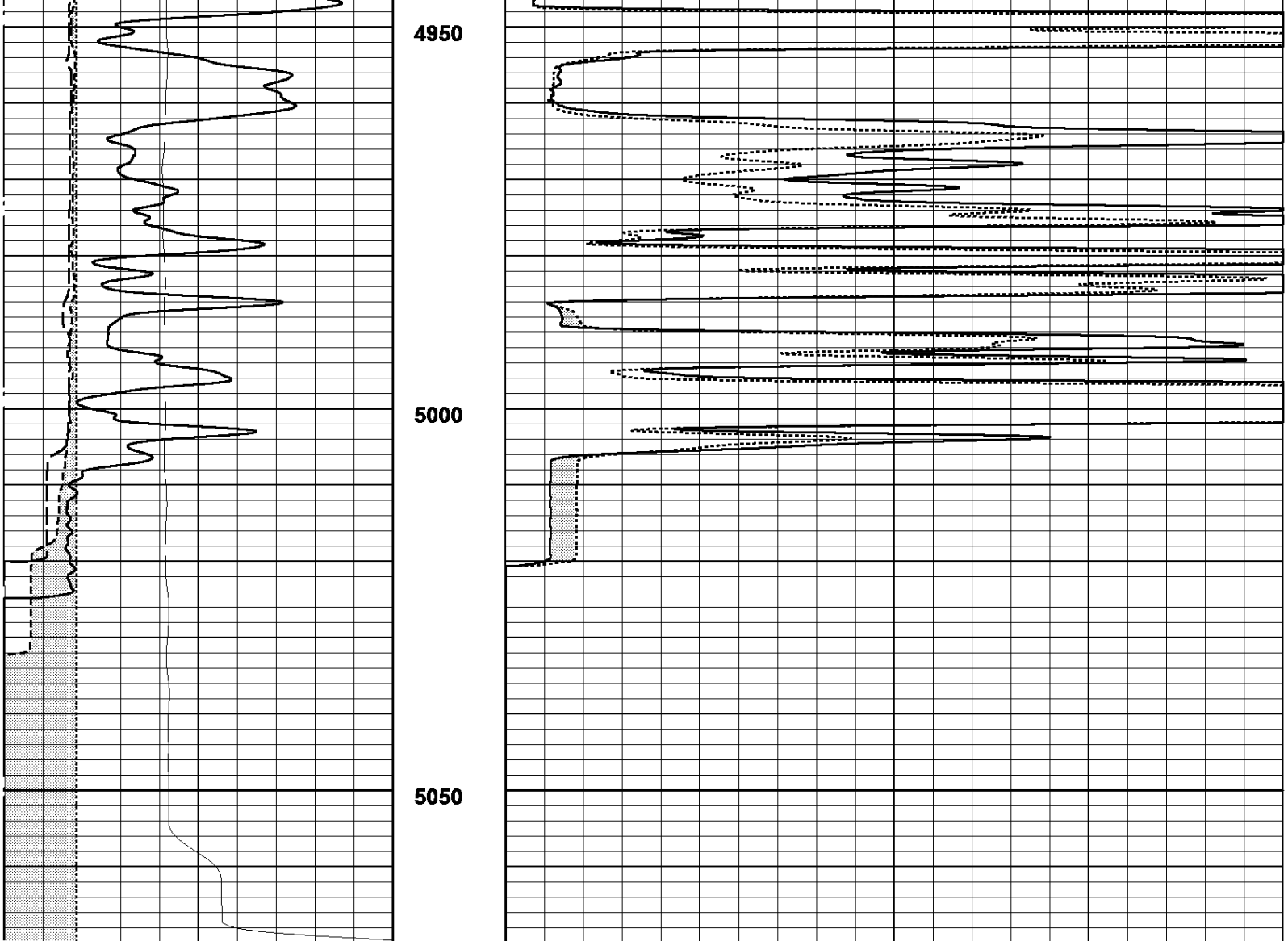
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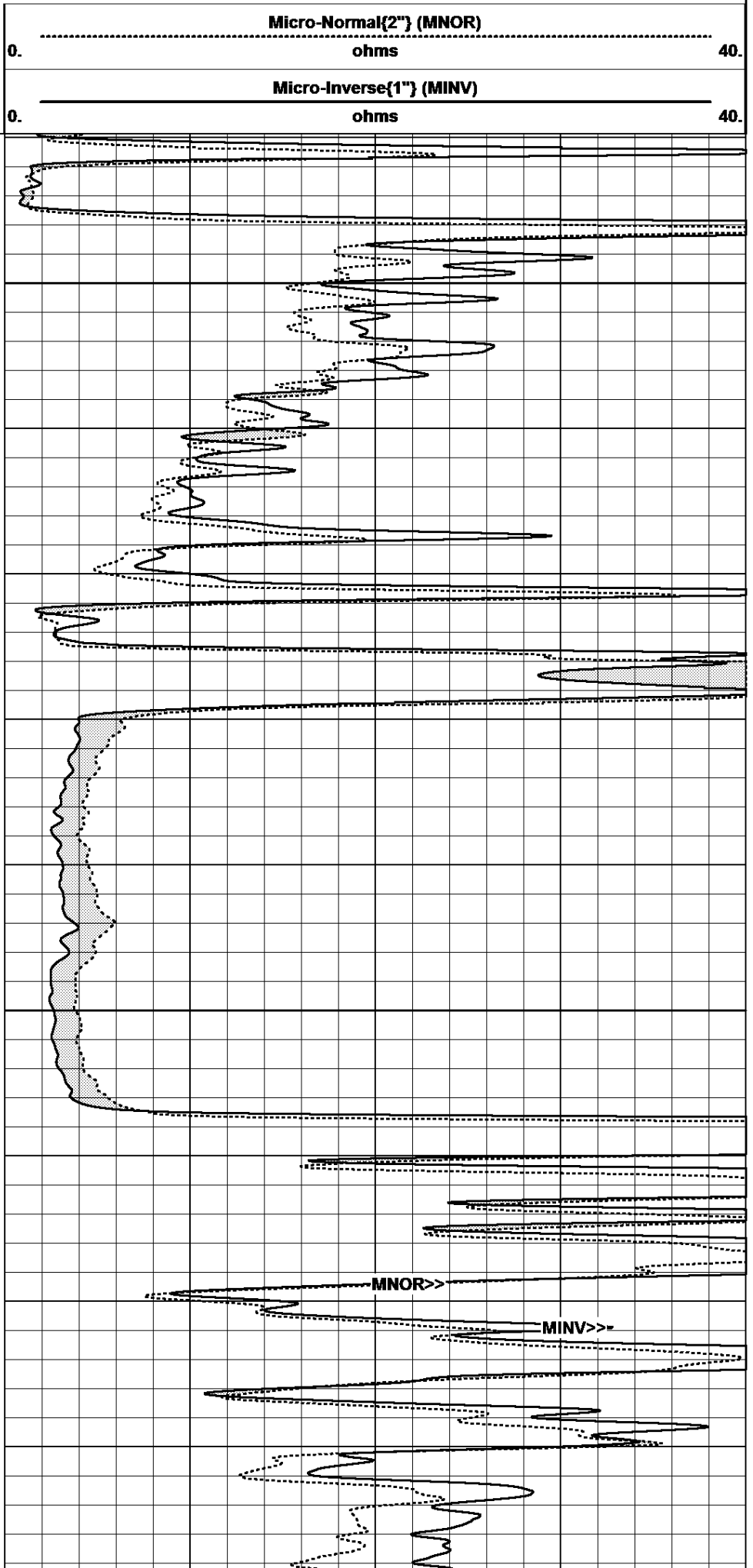
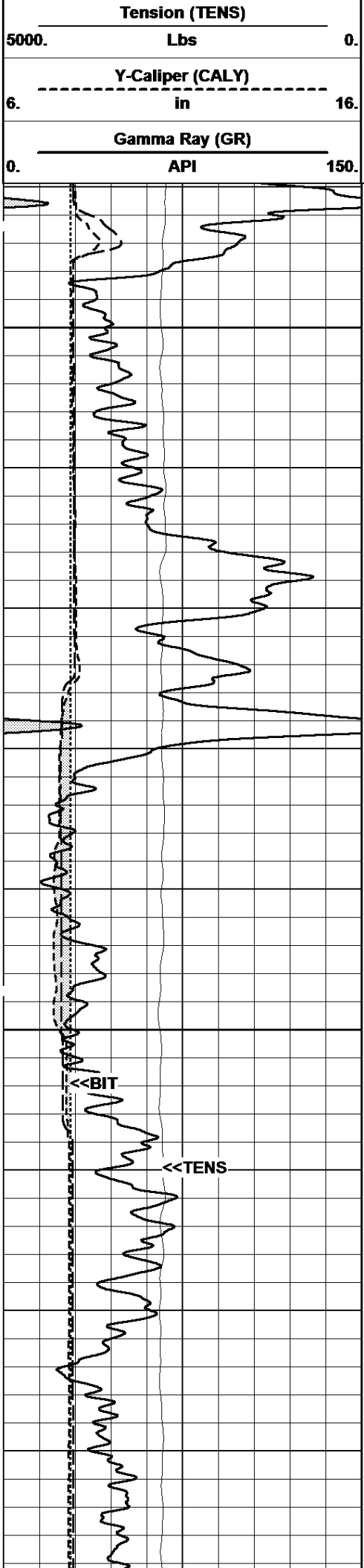
Gamma Ray (GR)		
0.	API	150.
Y-Caliper (CALY)		
6.	in	16.
Tension (TENS)		
5000.	Lbs	0.
Bit Size (BIT)		
6.	Ref in	16.
MicroLog-Caliper		
6.	in	16.

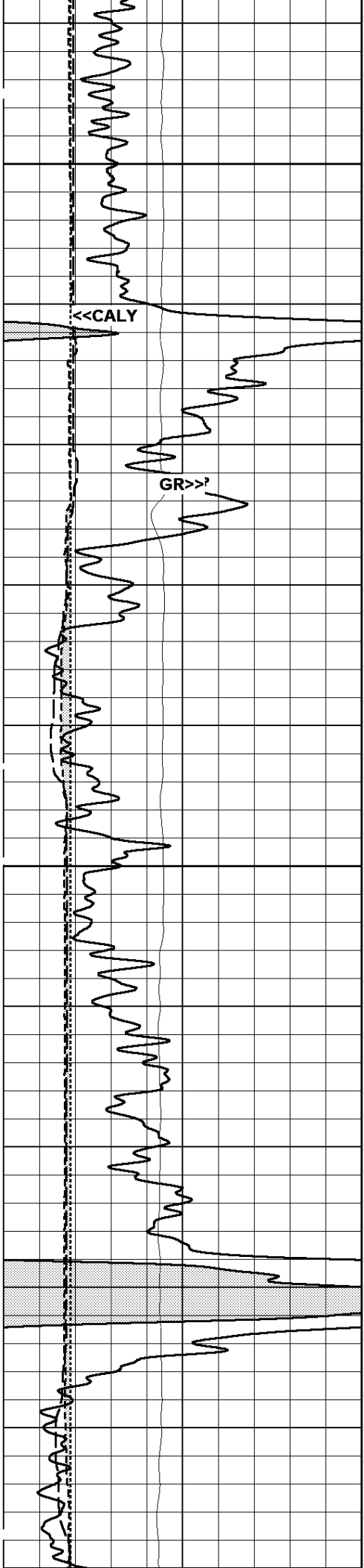
Micro-Inverse{1"} (MINV)		
0.	ohms	40.
Micro-Normal{2"} (MNOR)		
0.	ohms	40.

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

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

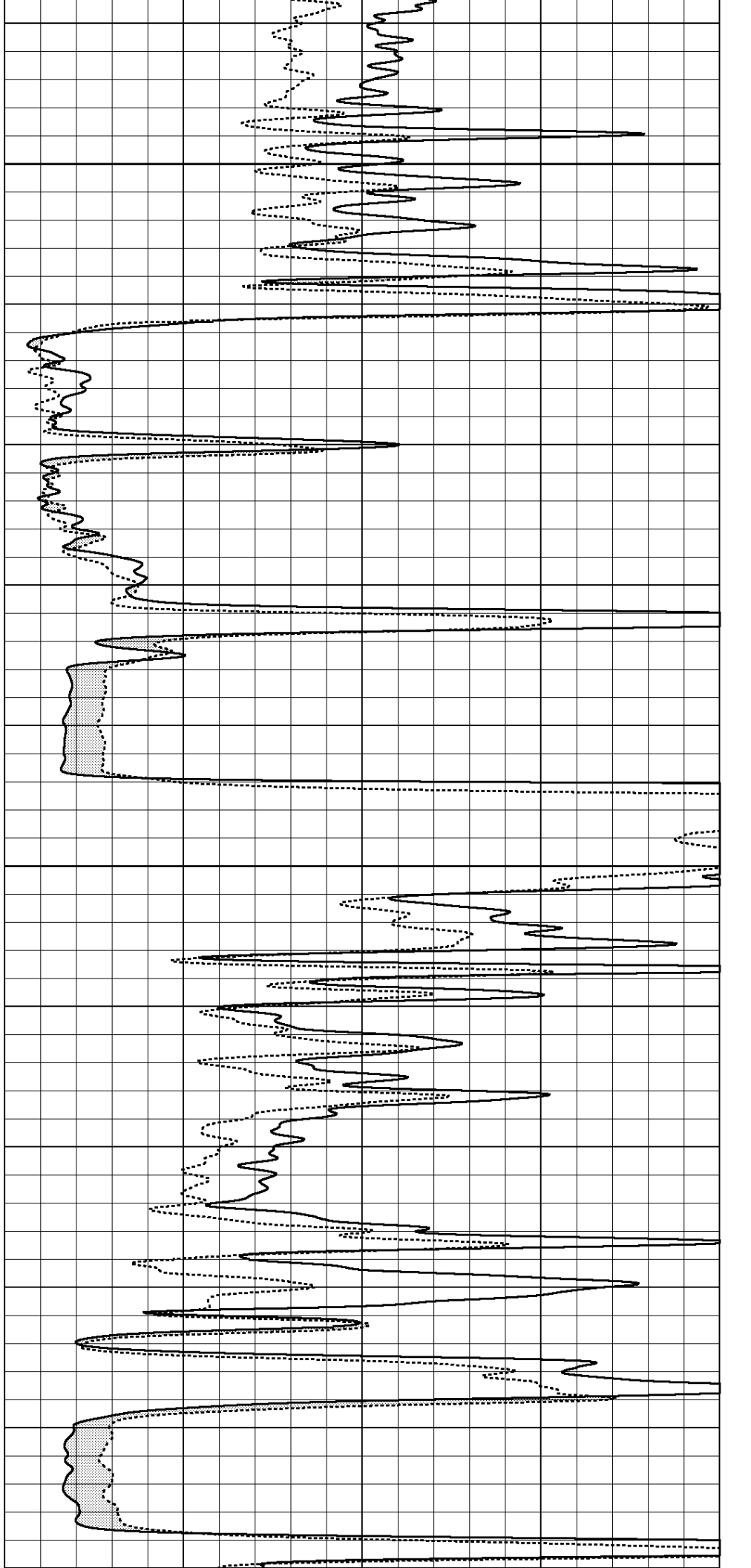
MicroLog-Caliper		
6.	in	16.
Bit Size (BIT)		
6.	Ref in	16.



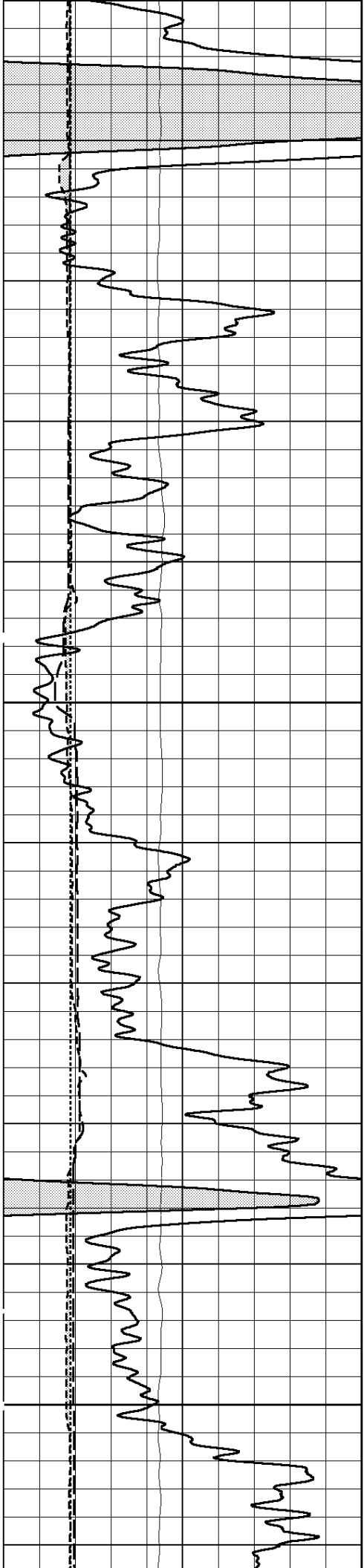


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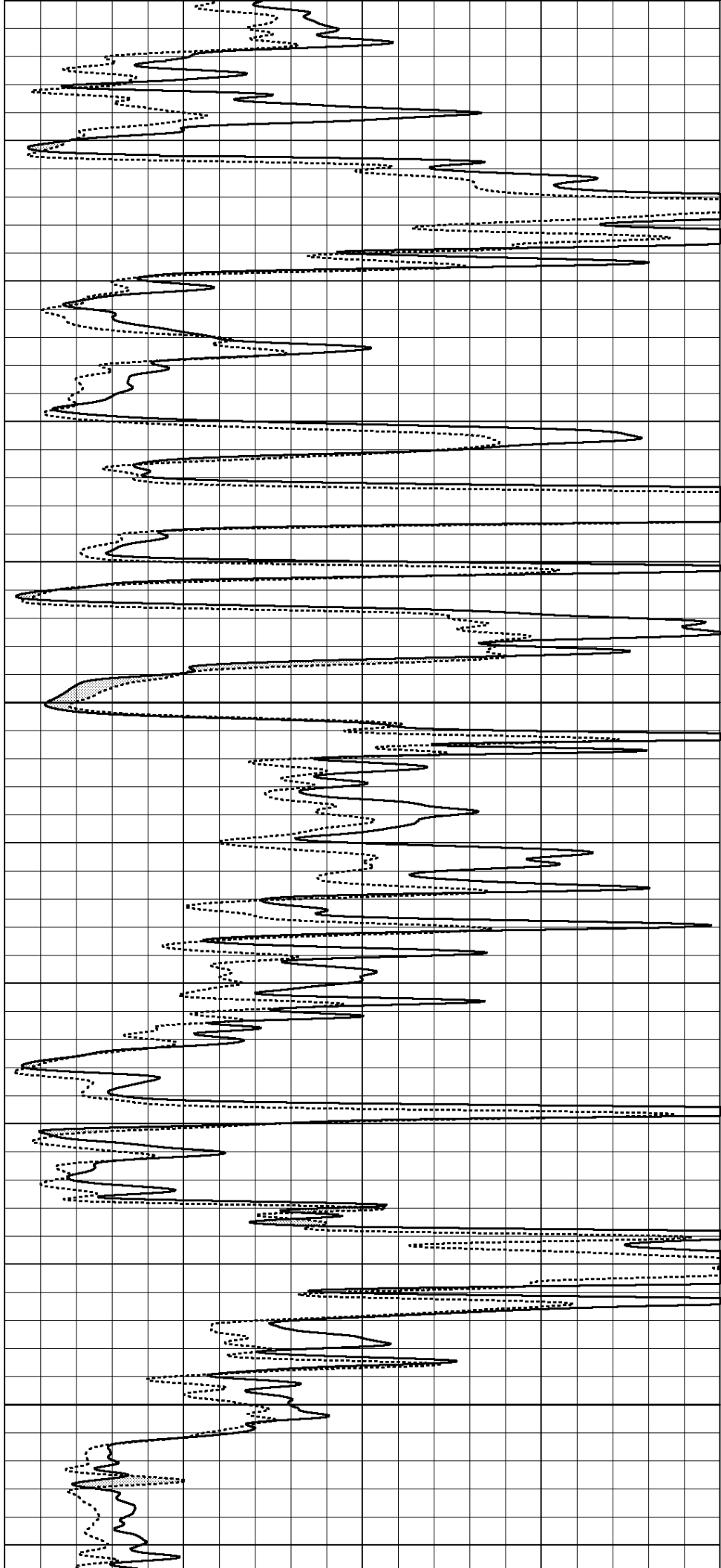
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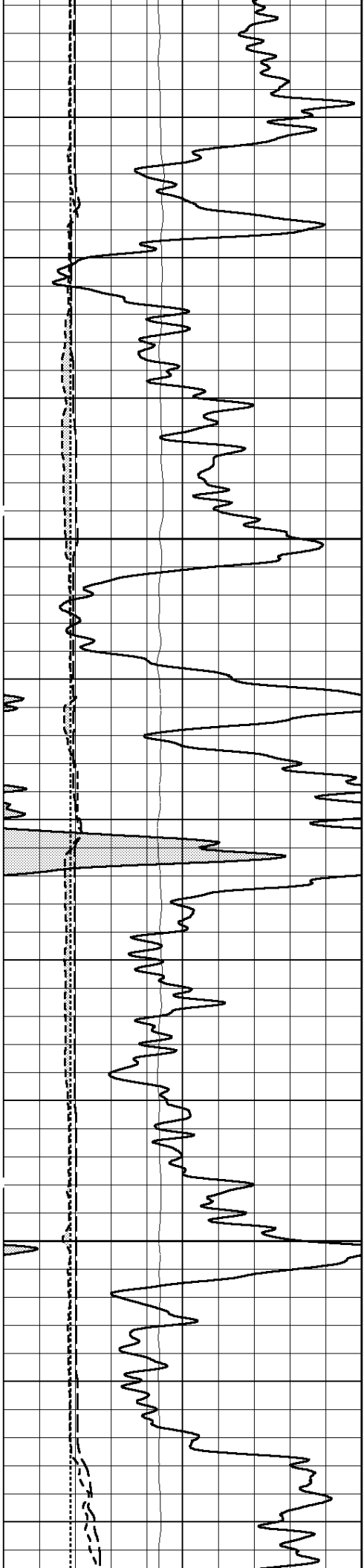
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4625

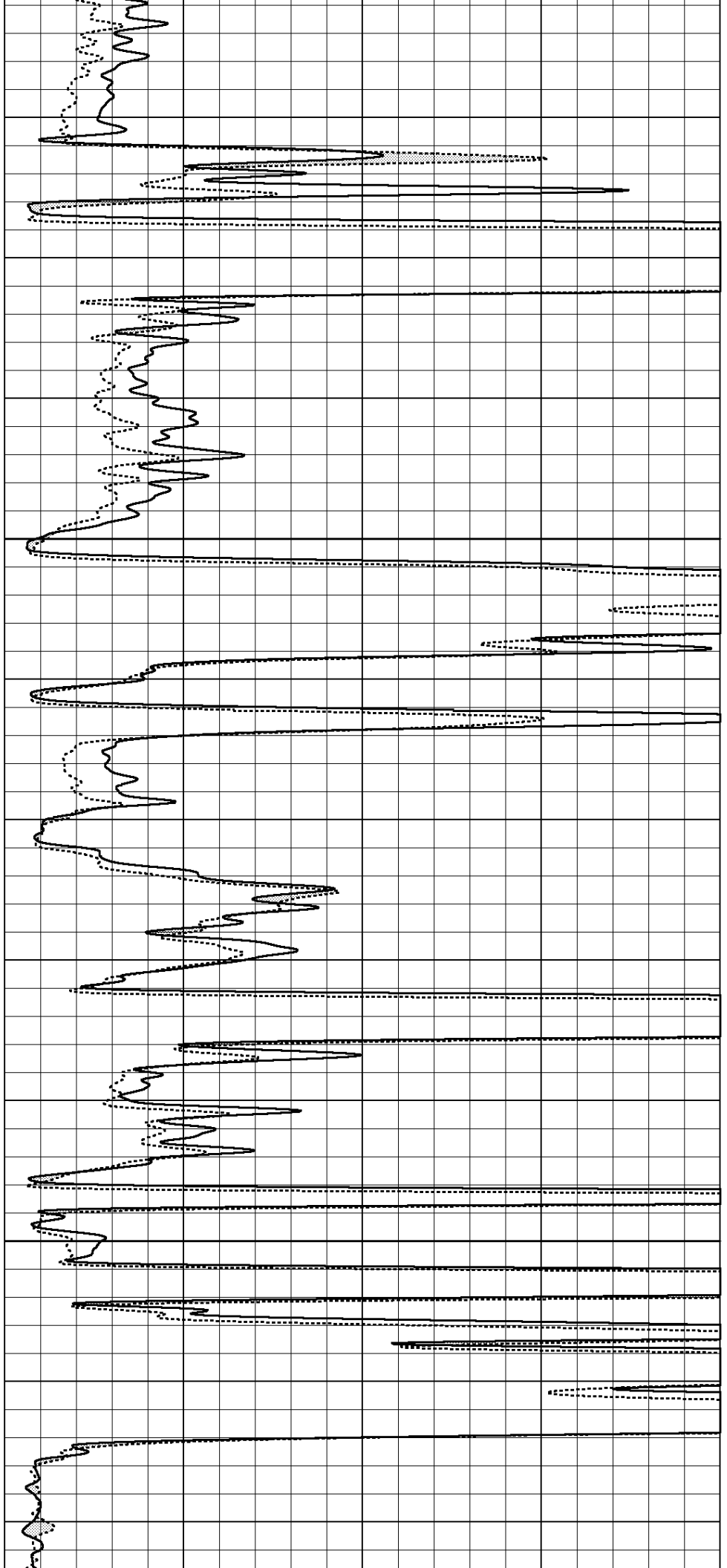


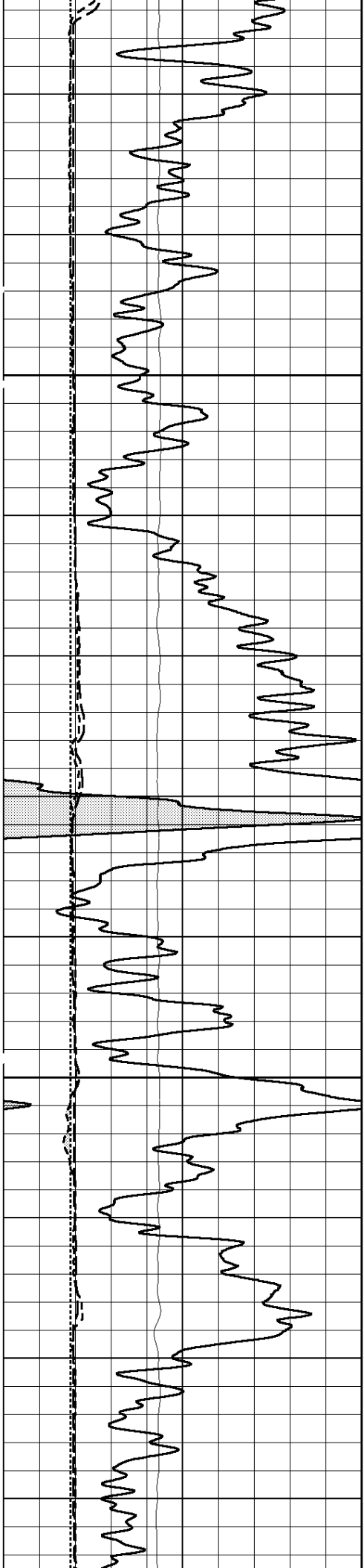
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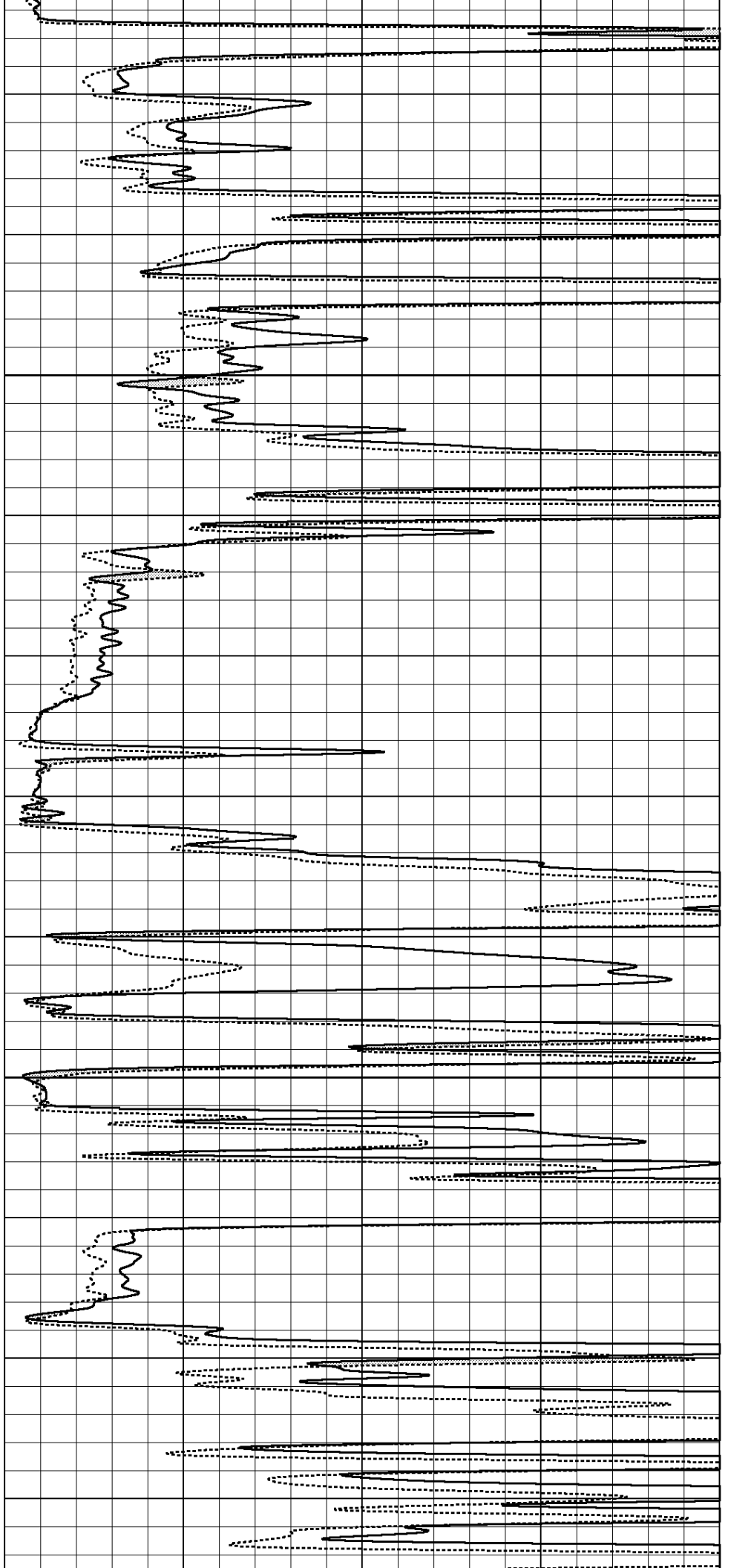
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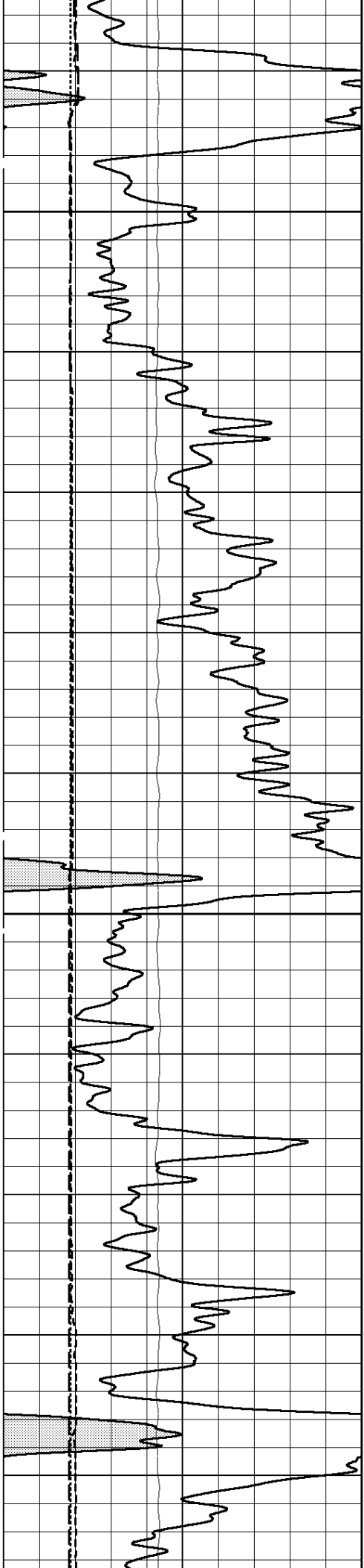




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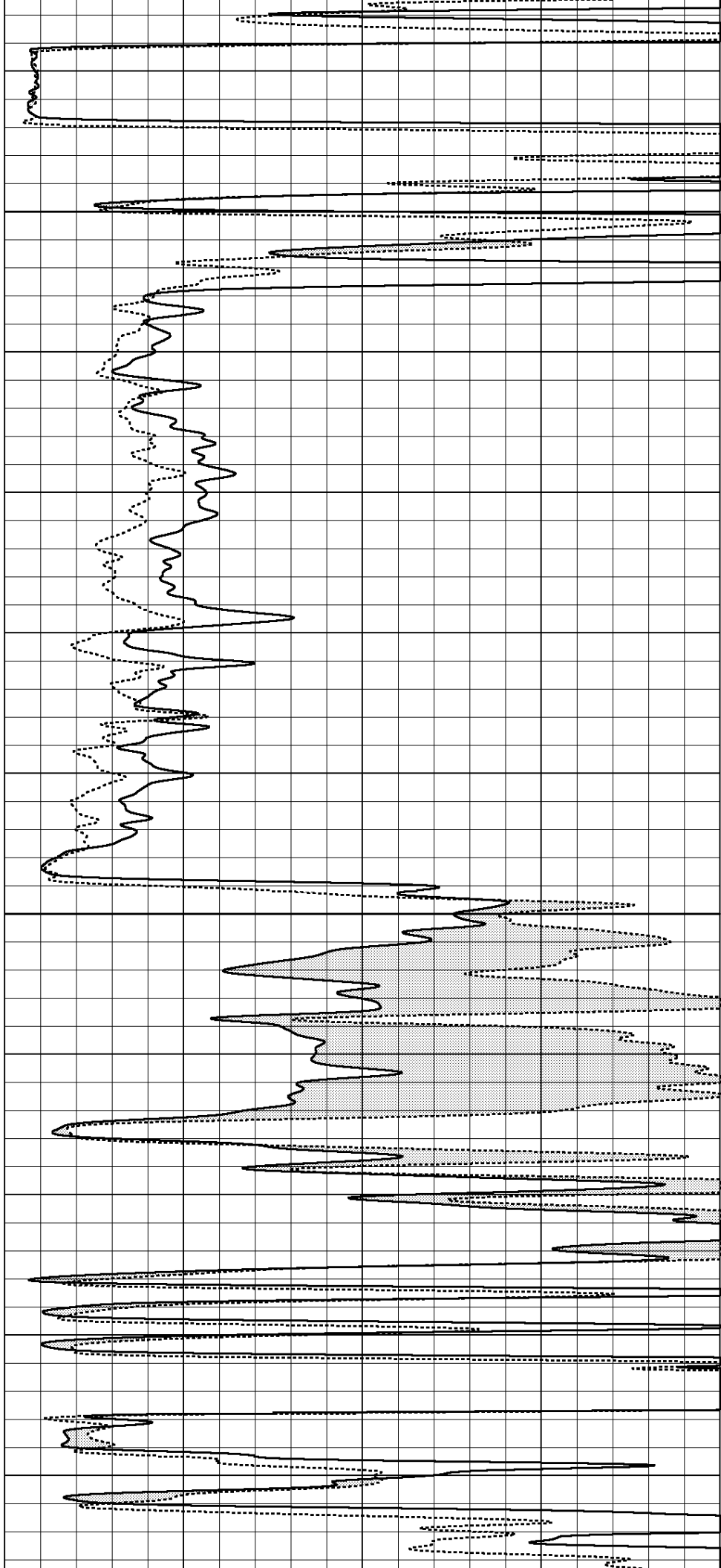
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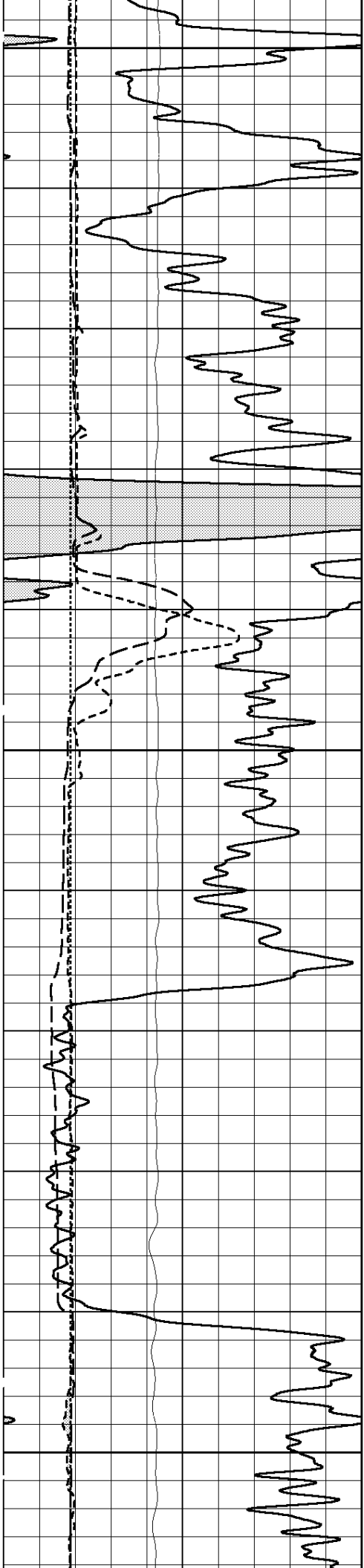




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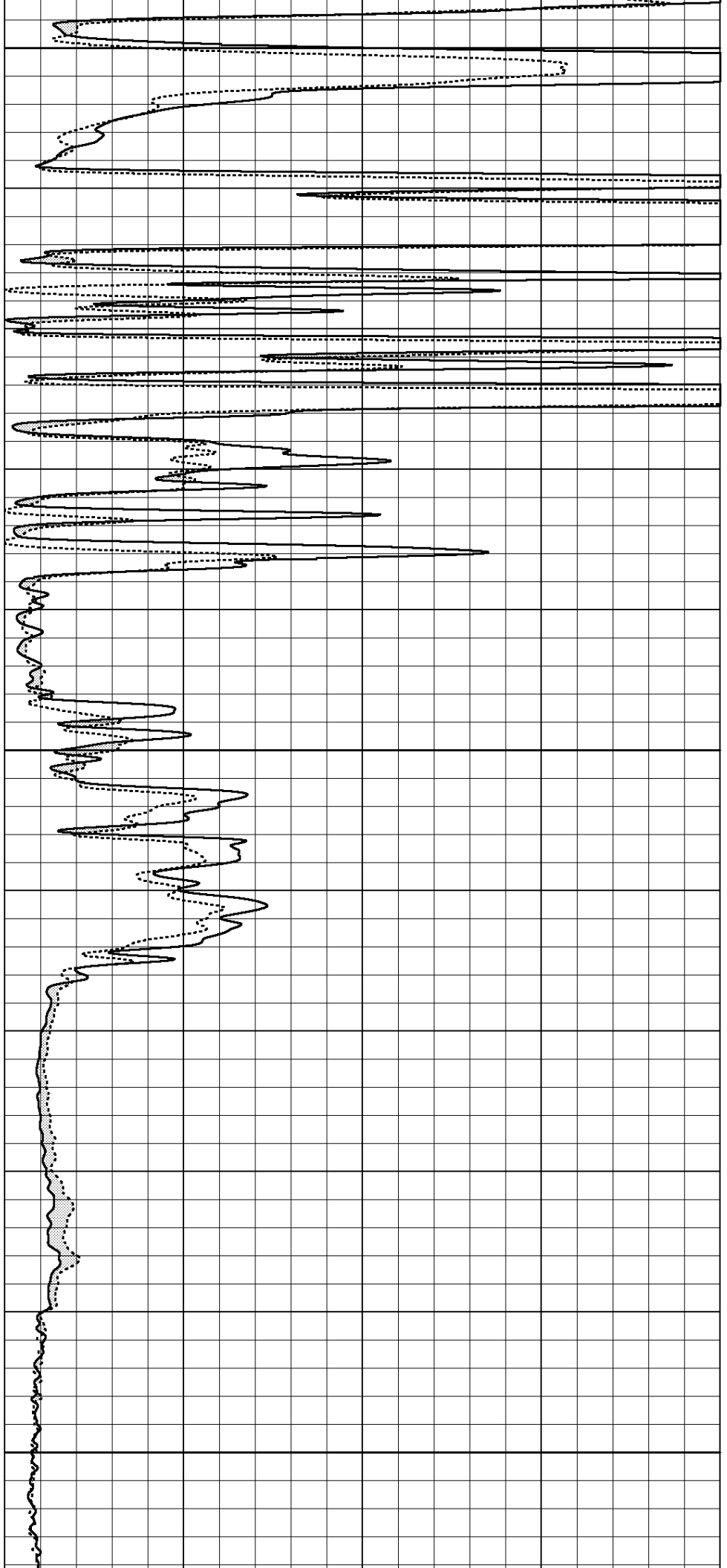


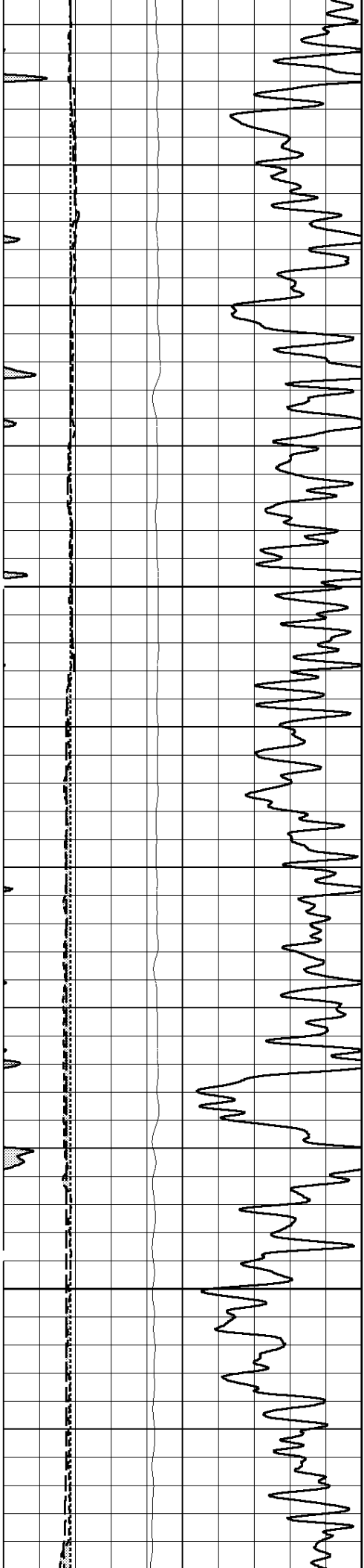


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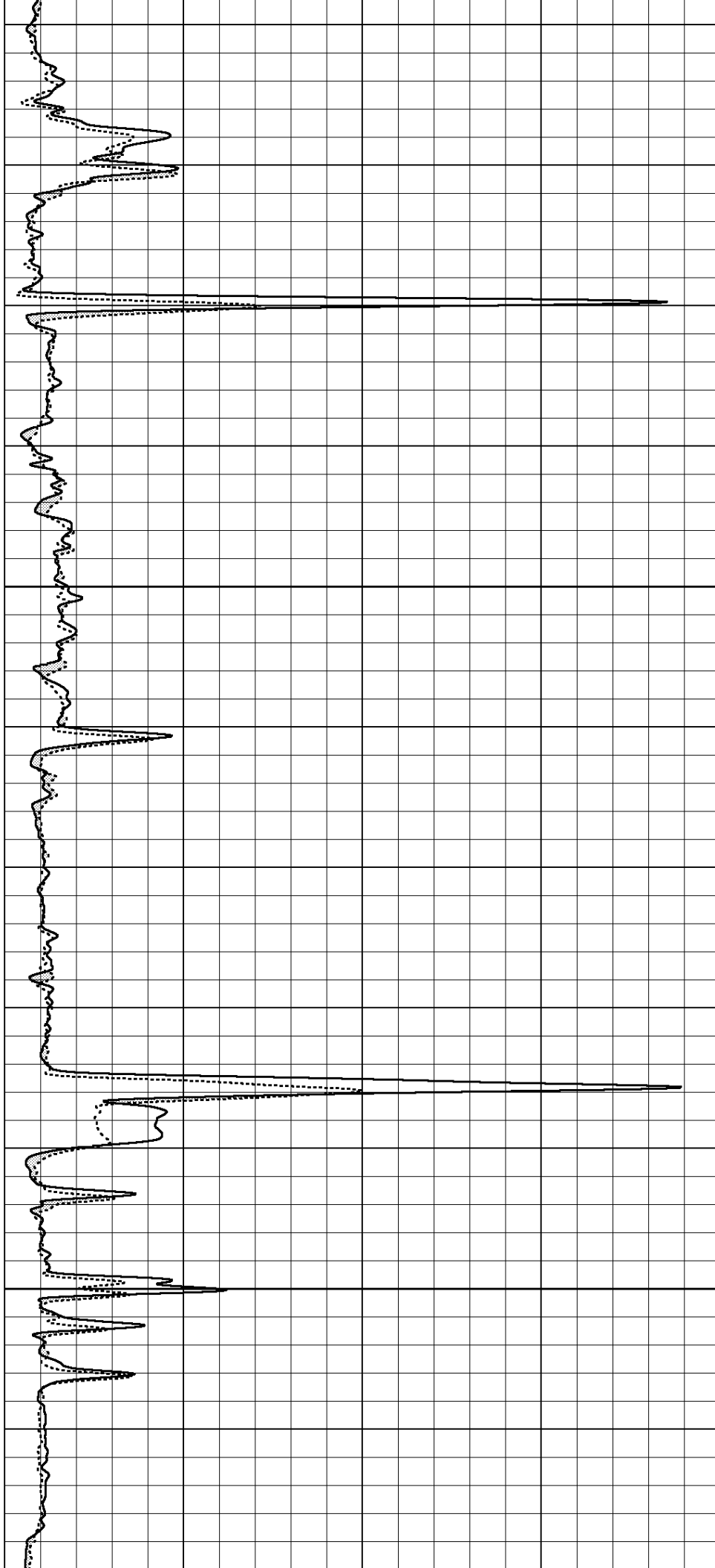
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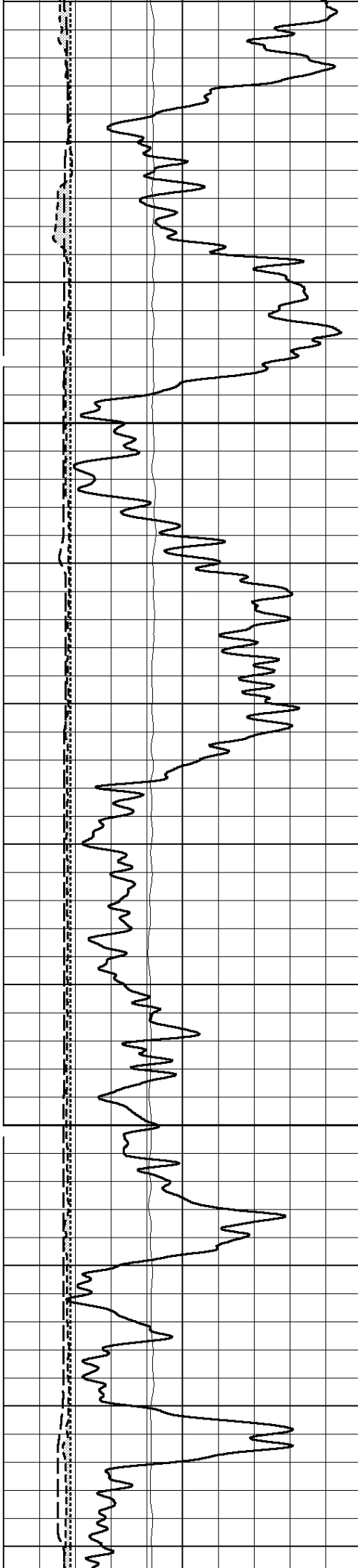




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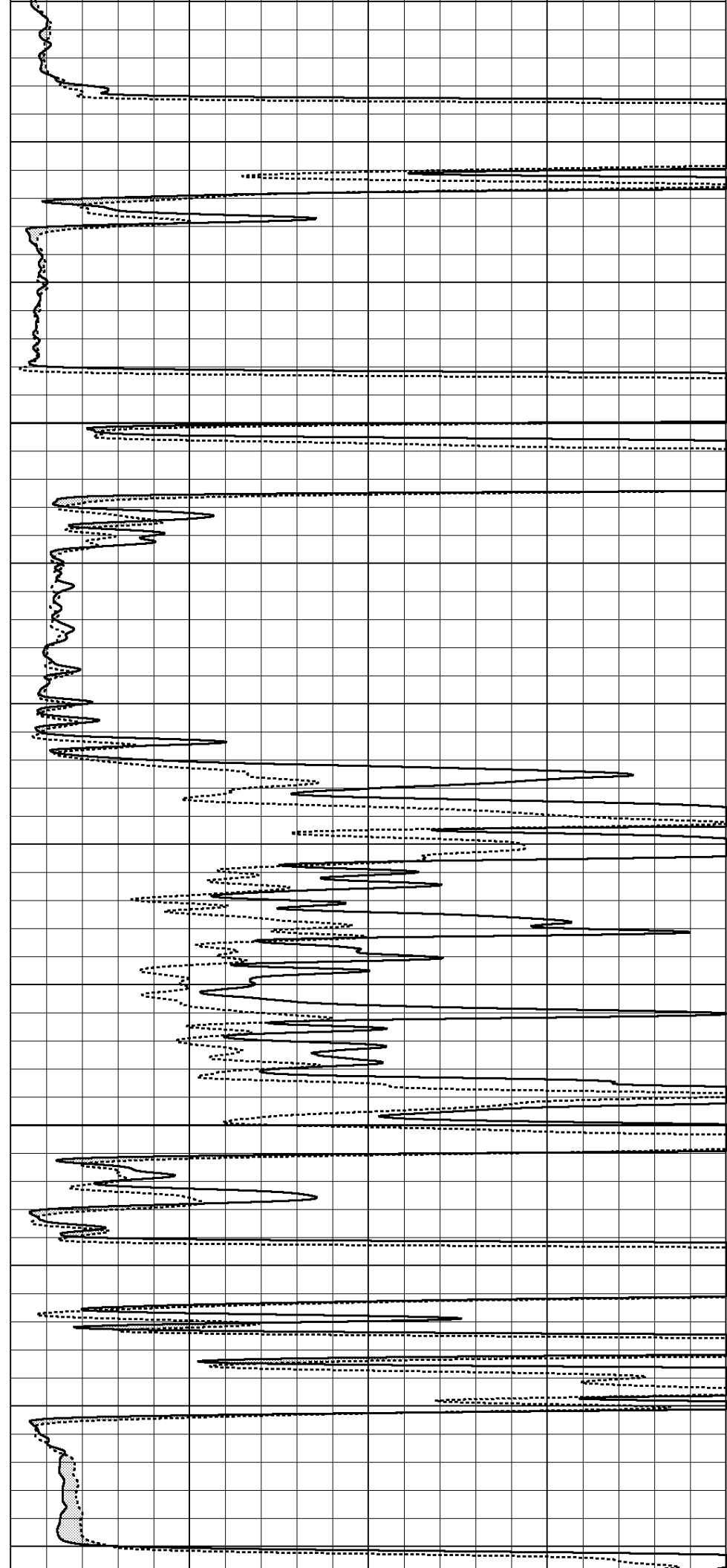


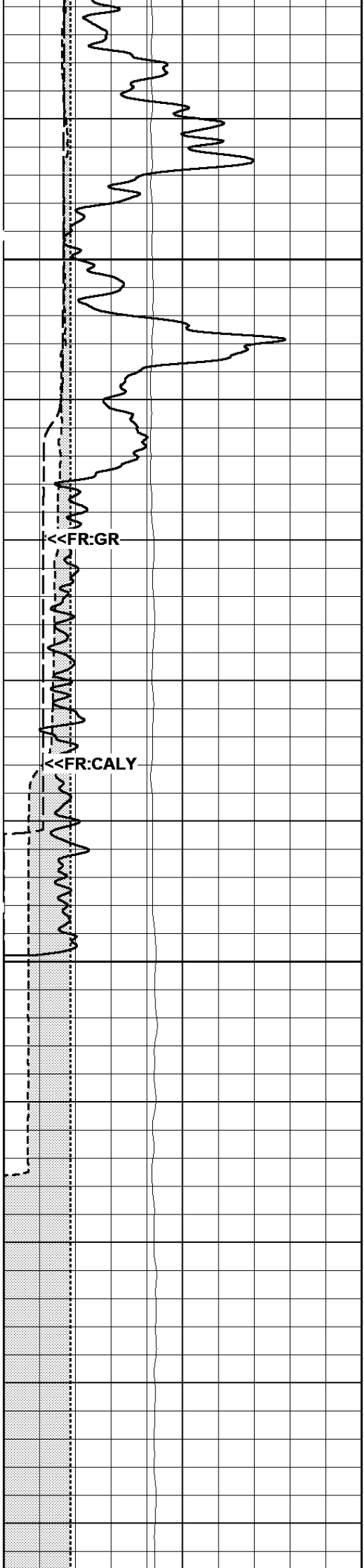
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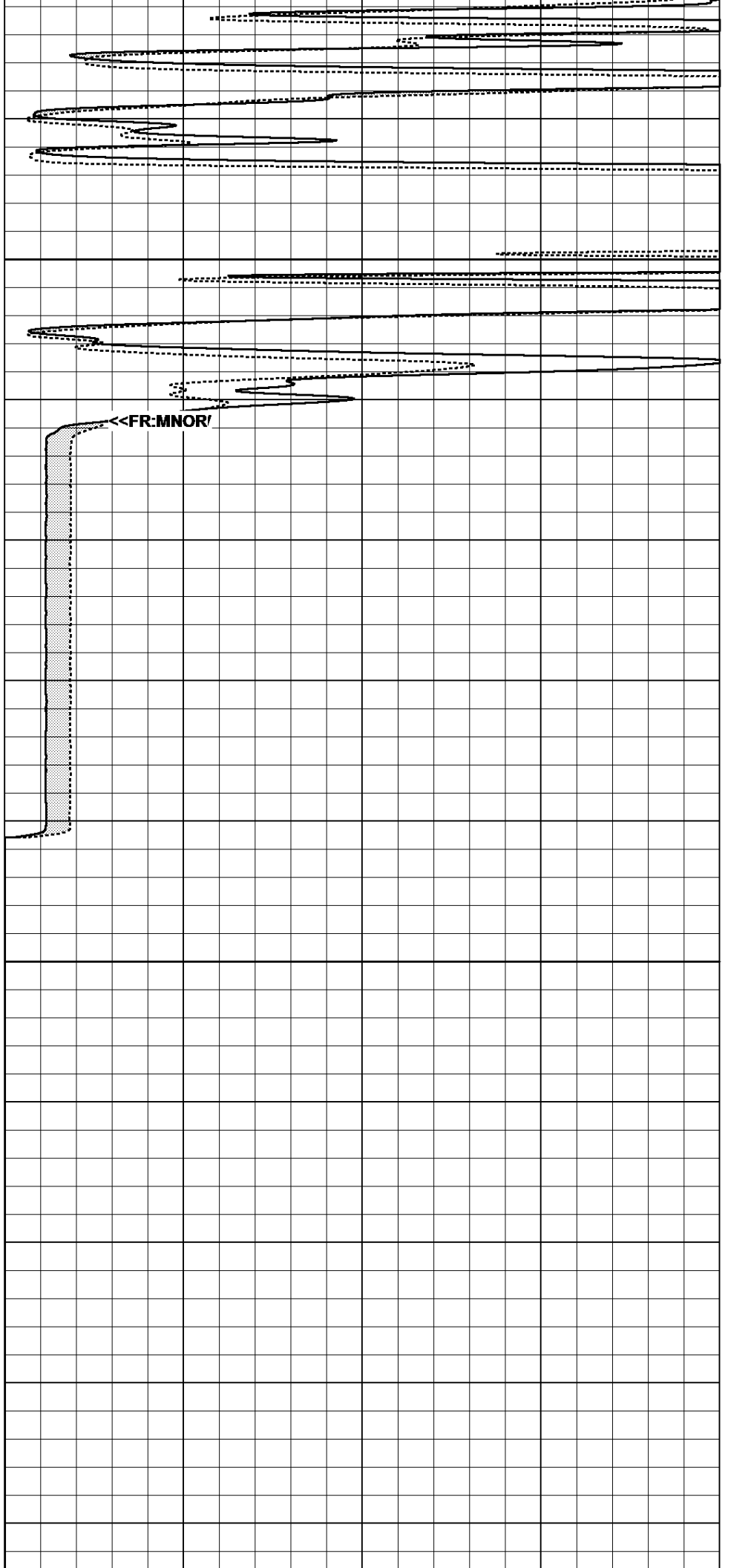
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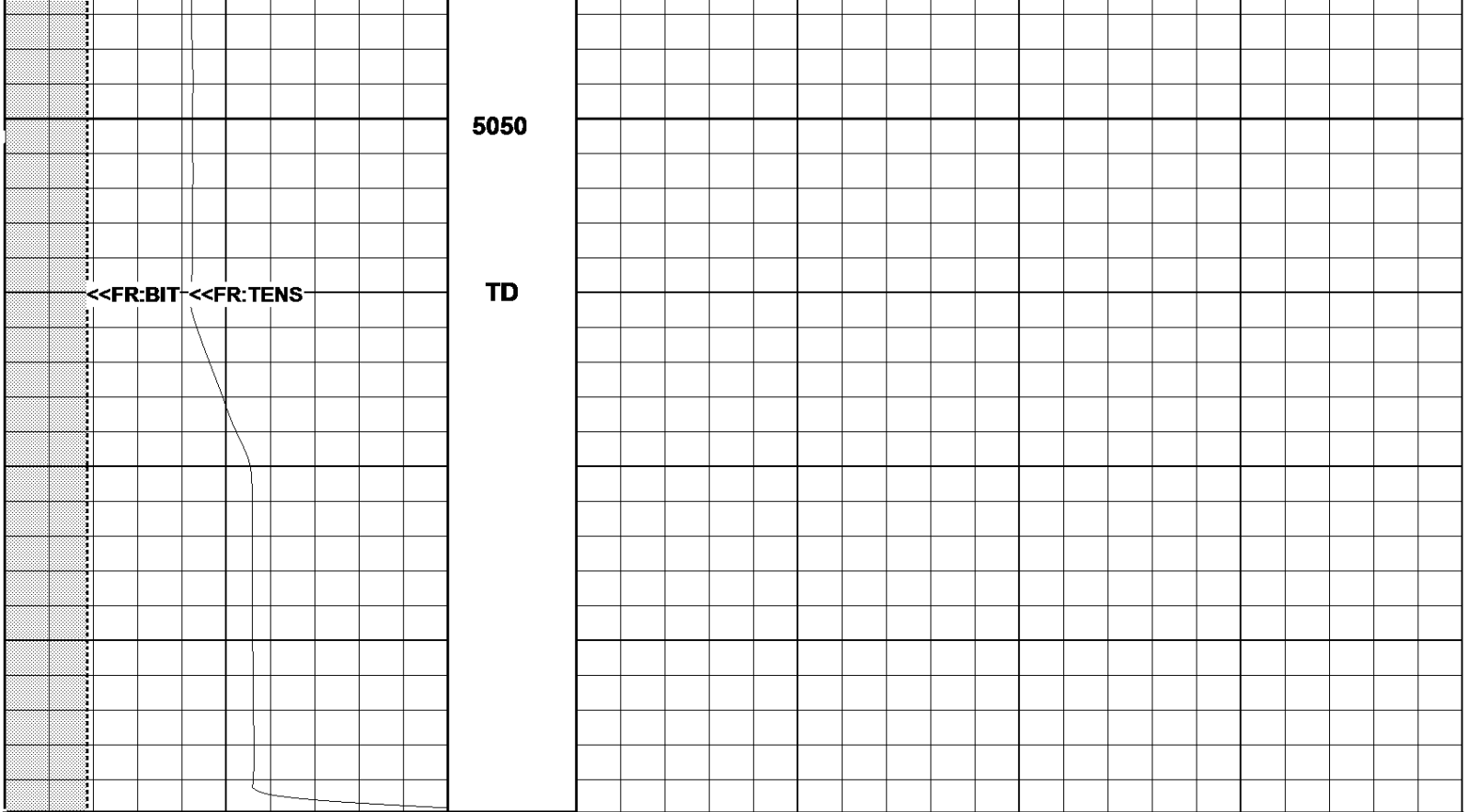




5000

5025





0.	Gamma Ray (GR) API	150.	0.	Micro-Inverse{1"} (MINV) ohms	40.
6.	Y-Caliper (CALY) in	16.	0.	Micro-Normal{2"} (MNOR) ohms	40.
5000.	Tension (TENS) Lbs	0.			
6.	Bit Size (BIT) Ref in	16.			
6.	MicroLog-Caliper in	16.			

11/23/2014 **HIGH DEFINITION PASS (20"/100Ft)** Log UP - (VER 11.19)
 11:37:52 => Start Time Start Depth=> 5069.90 Feet

MICRO INVERSE CALIBRATIONS

SERIAL NUM

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 NORMAL CALIBRATIONS

SERIAL NUM

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

GAMMA RAY CALIBRATION

SERIAL NUM	RG3011
BLANKET NUM	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 Mknupts	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	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 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

MICROLOG
GAMMA RAY
X-Y CALIPER

