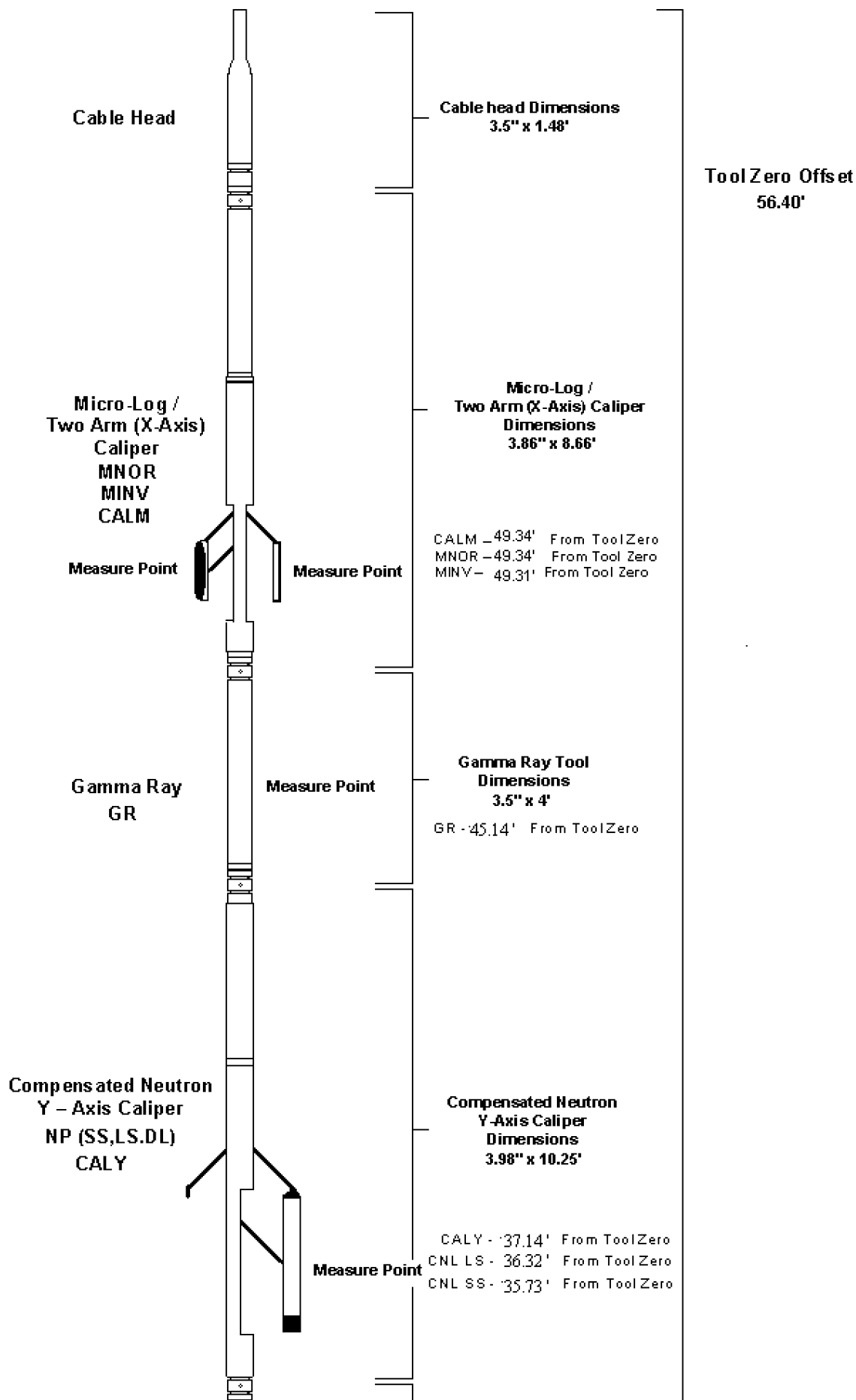


**DUAL INDUCTION – SP / GAMMA RAY /
COMPENSATED LITHO-DENSITY / X-CALIPER
COMPENSATED NEUTRON / Y-CALIPER
MICRO - LOG / M-CALIPER**



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 - 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

**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**

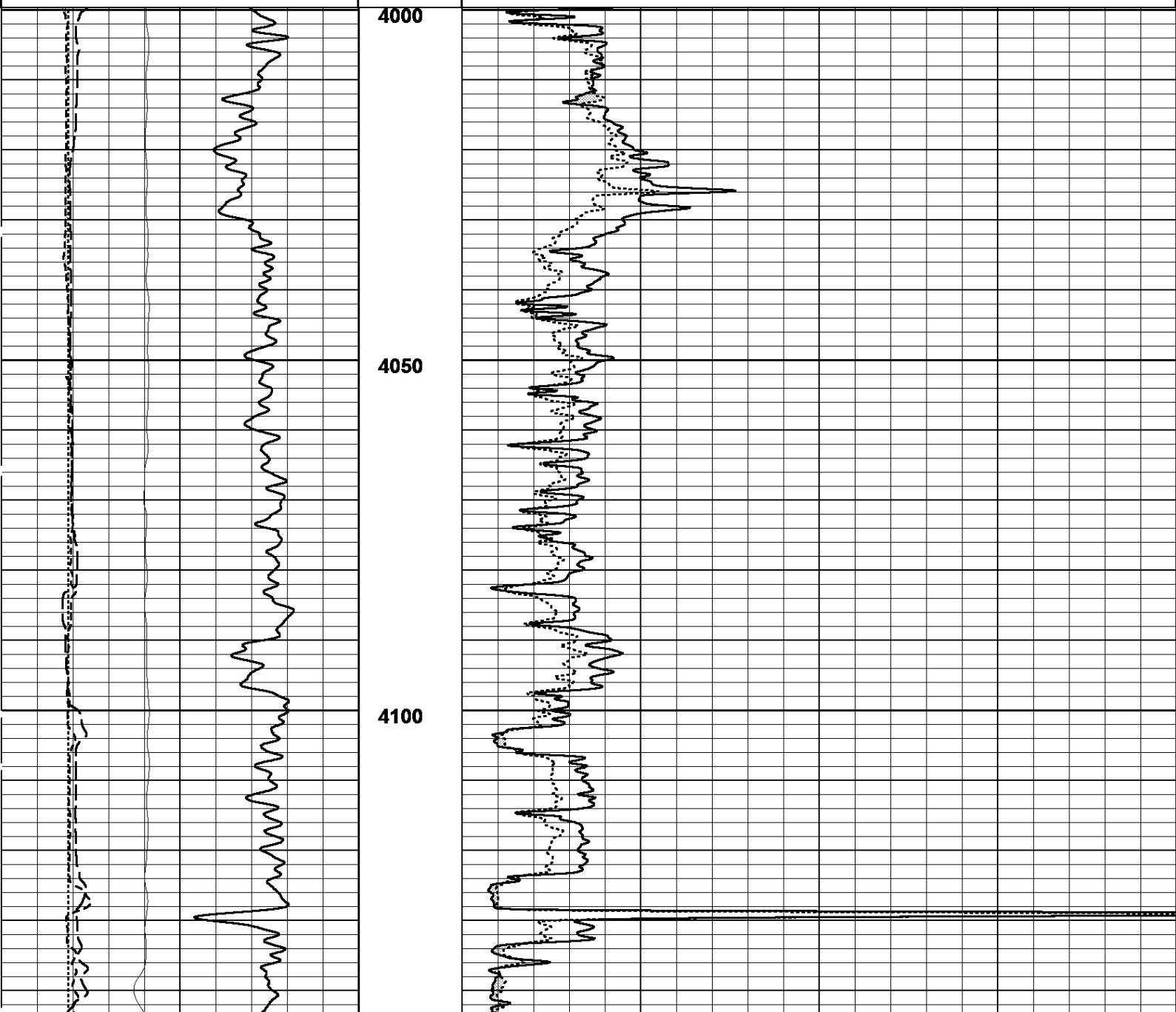
09/27/2013
00:05:15 => End Time

MAIN PASS (5"/100Ft)

Log UP - (VER 11.14a)
End Depth=> 3999.90 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.



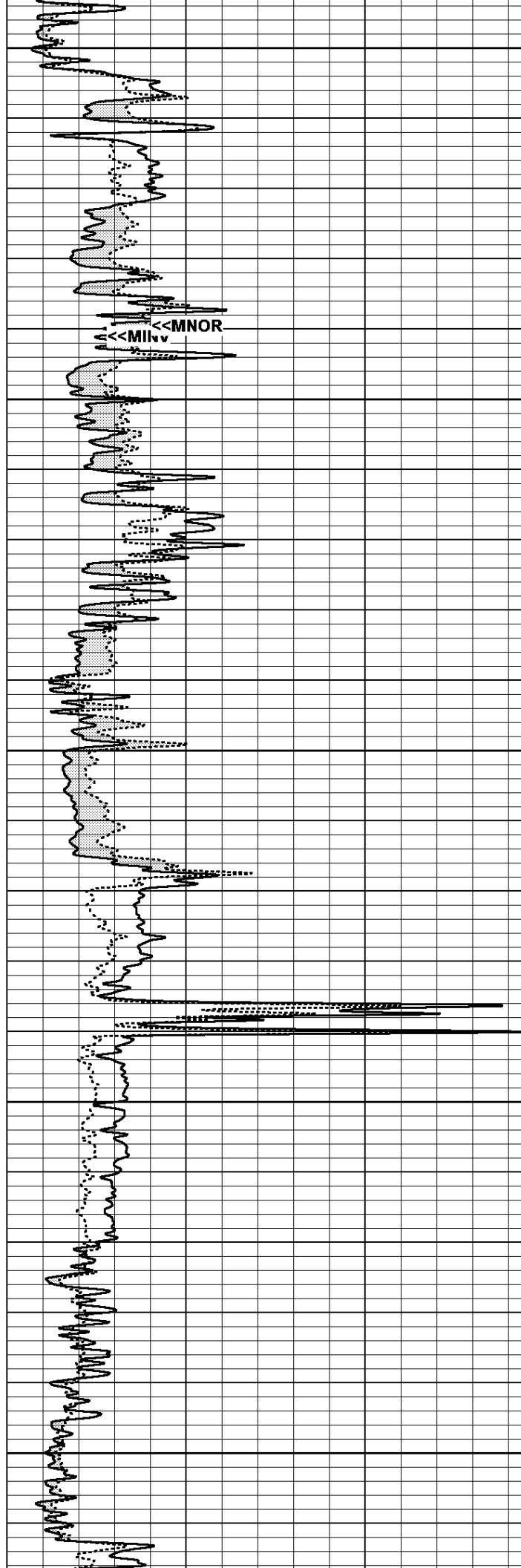
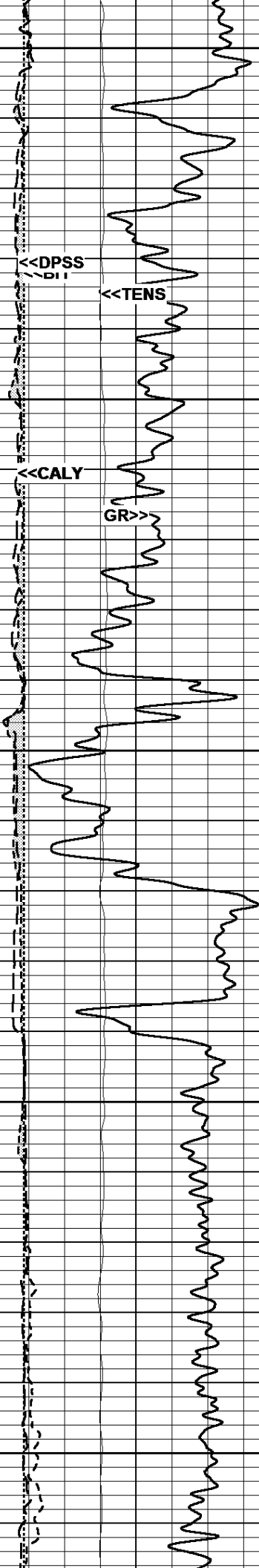
4150

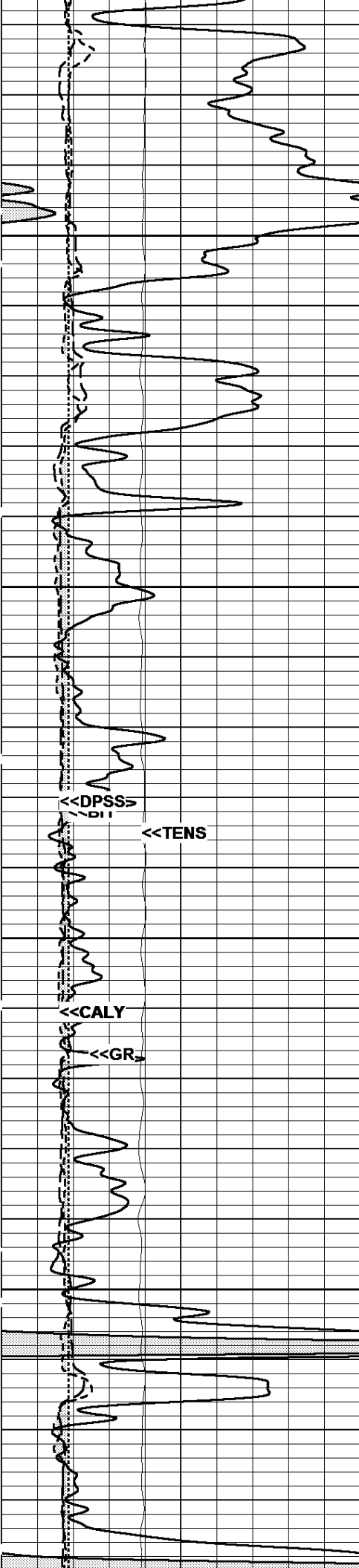
4200

4250

4300

4350



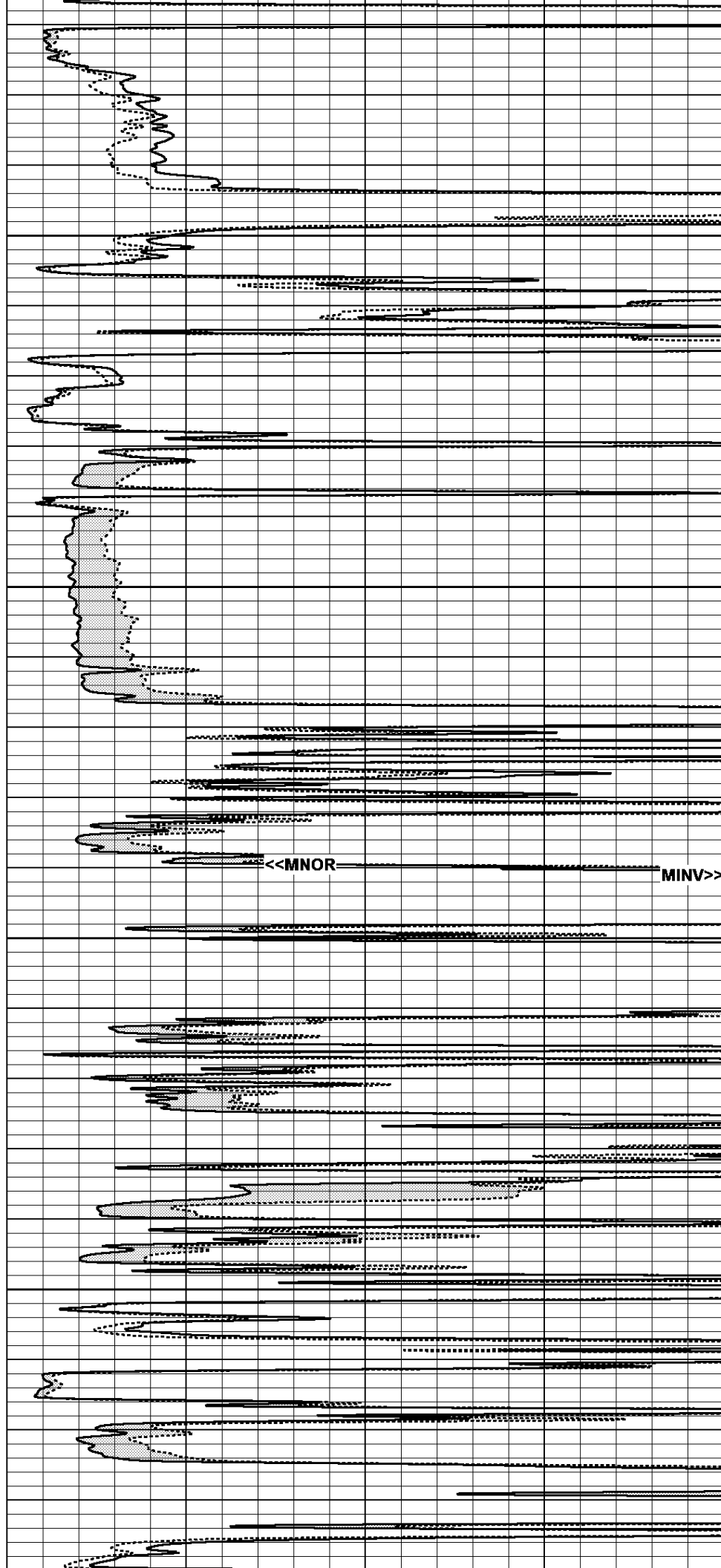


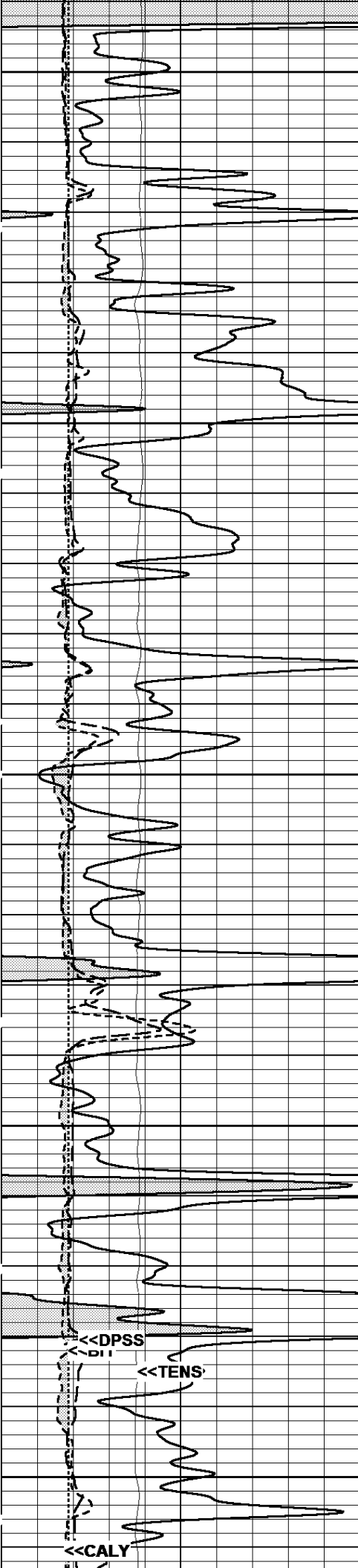
4400

4450

4500

4550





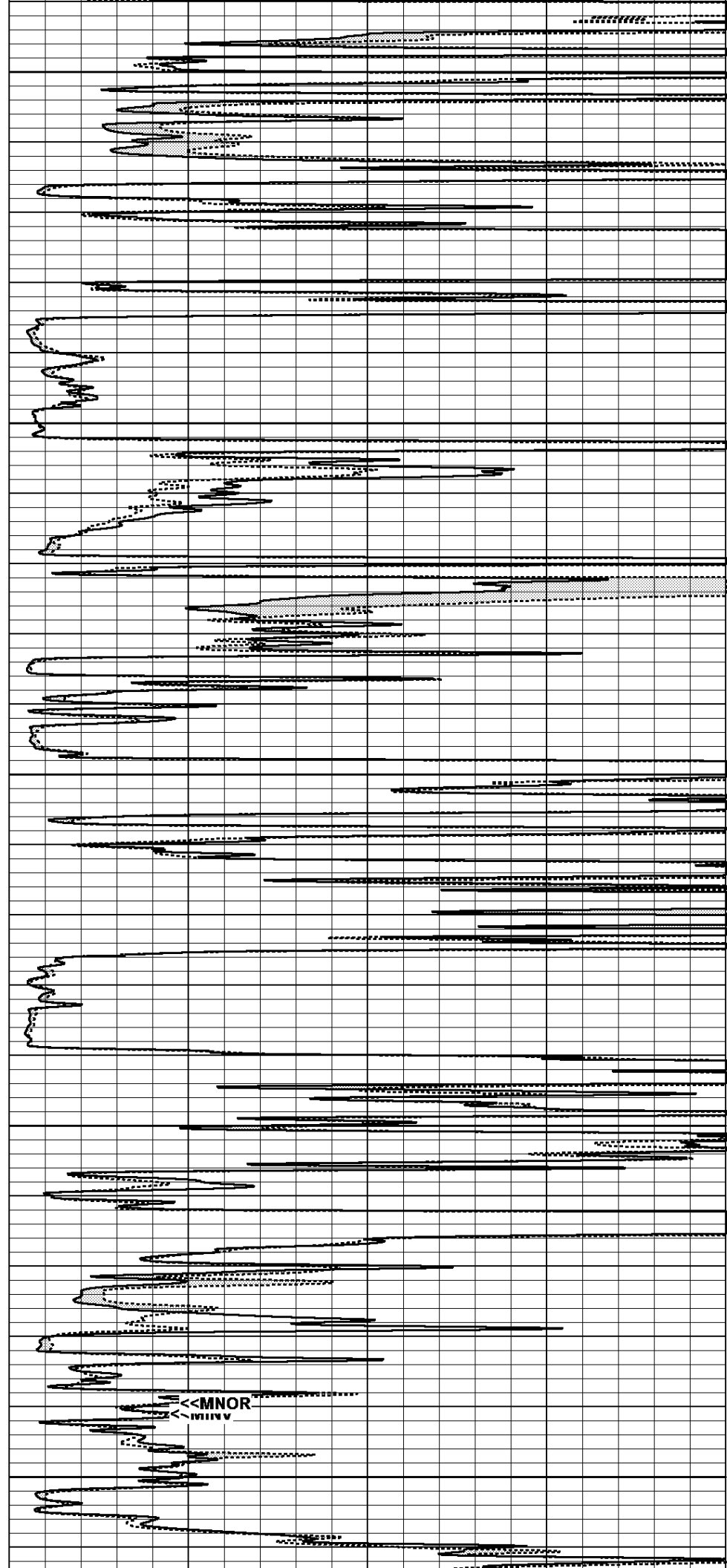
4600

4650

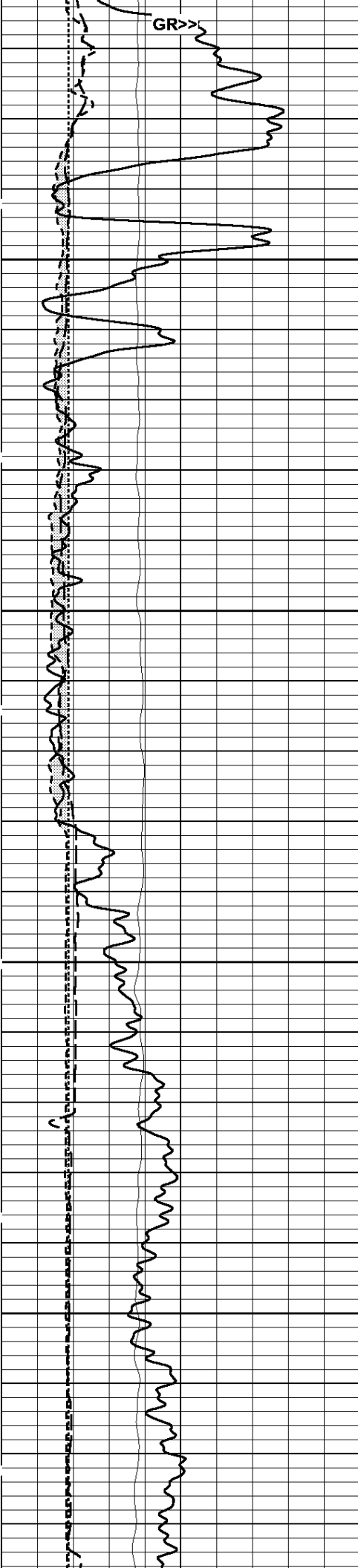
4700

4750

4800



<<MNOR
<<MINV

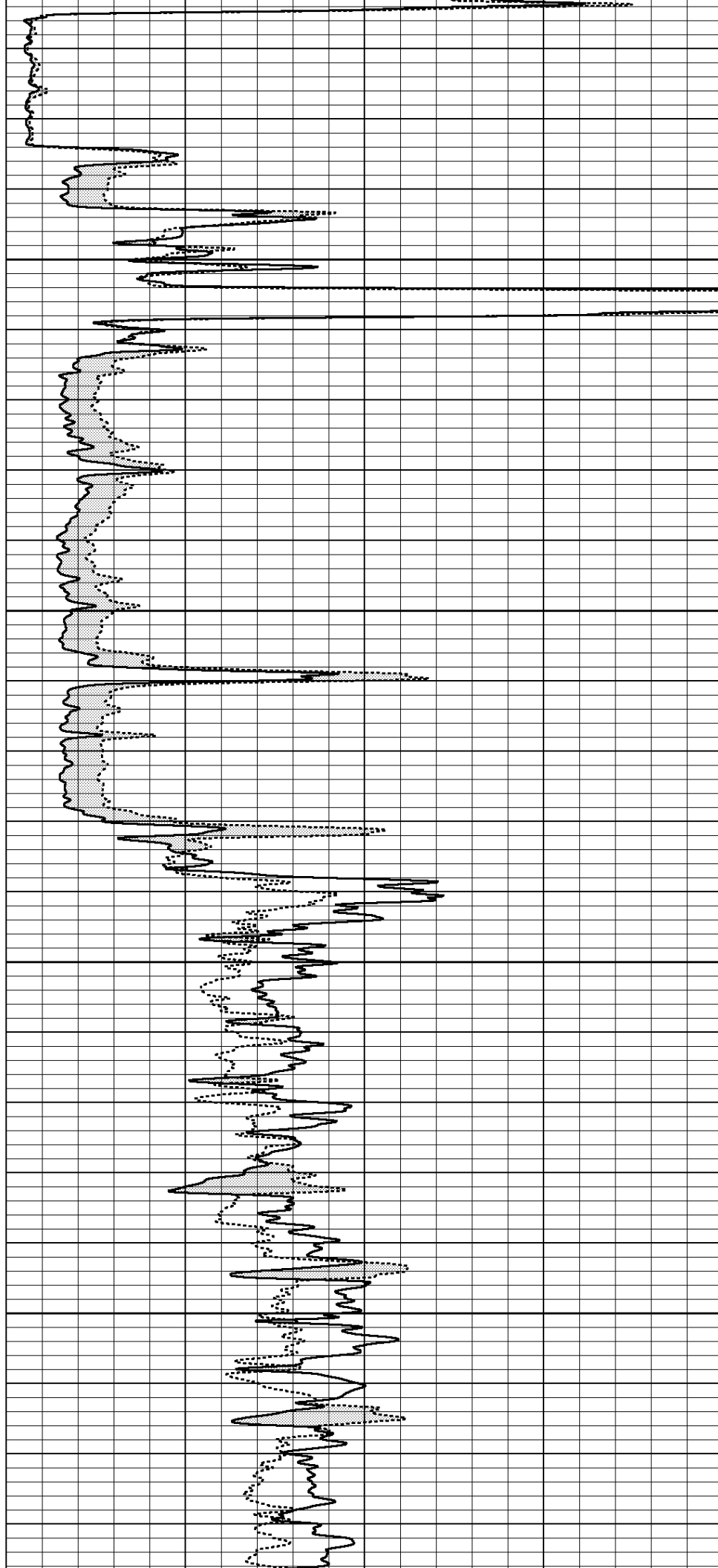


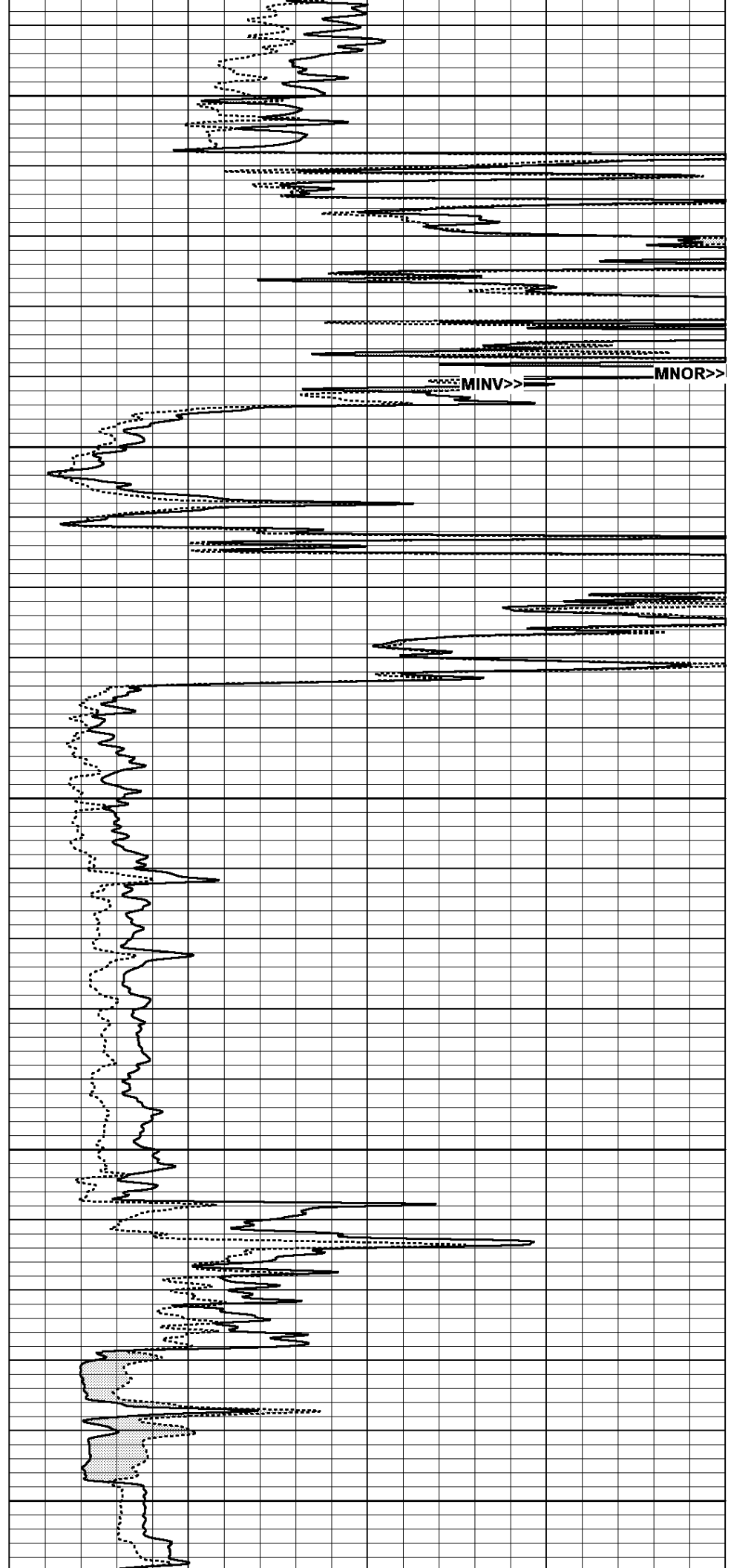
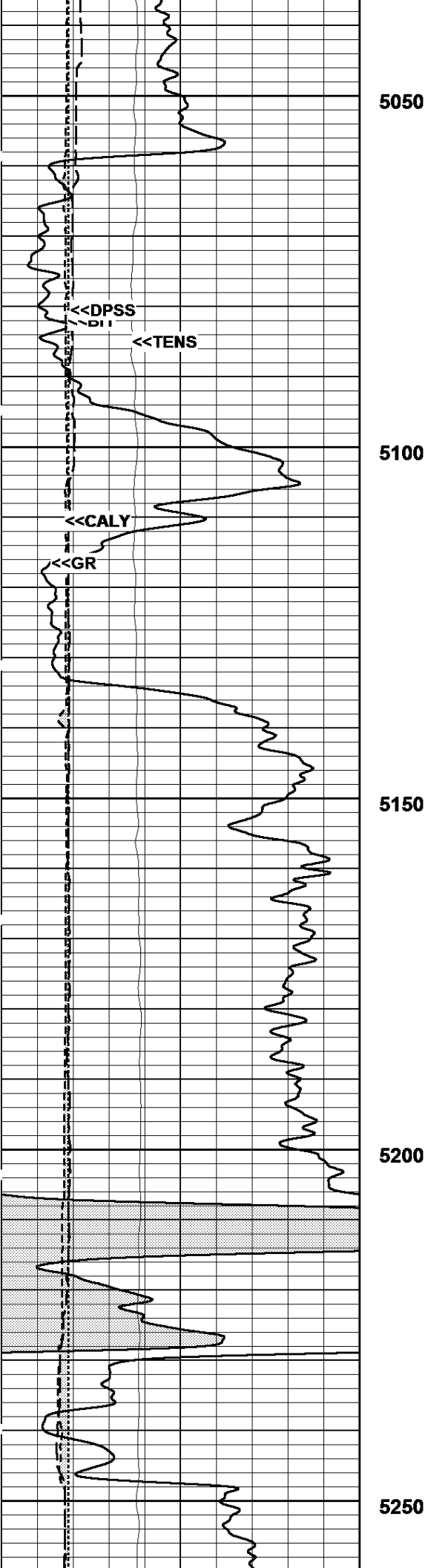
4850

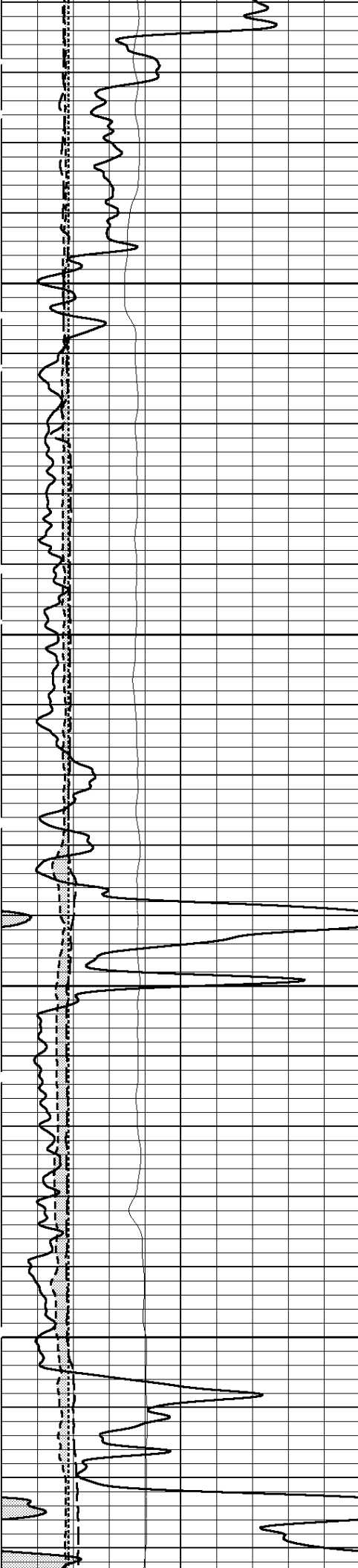
4900

4950

5000





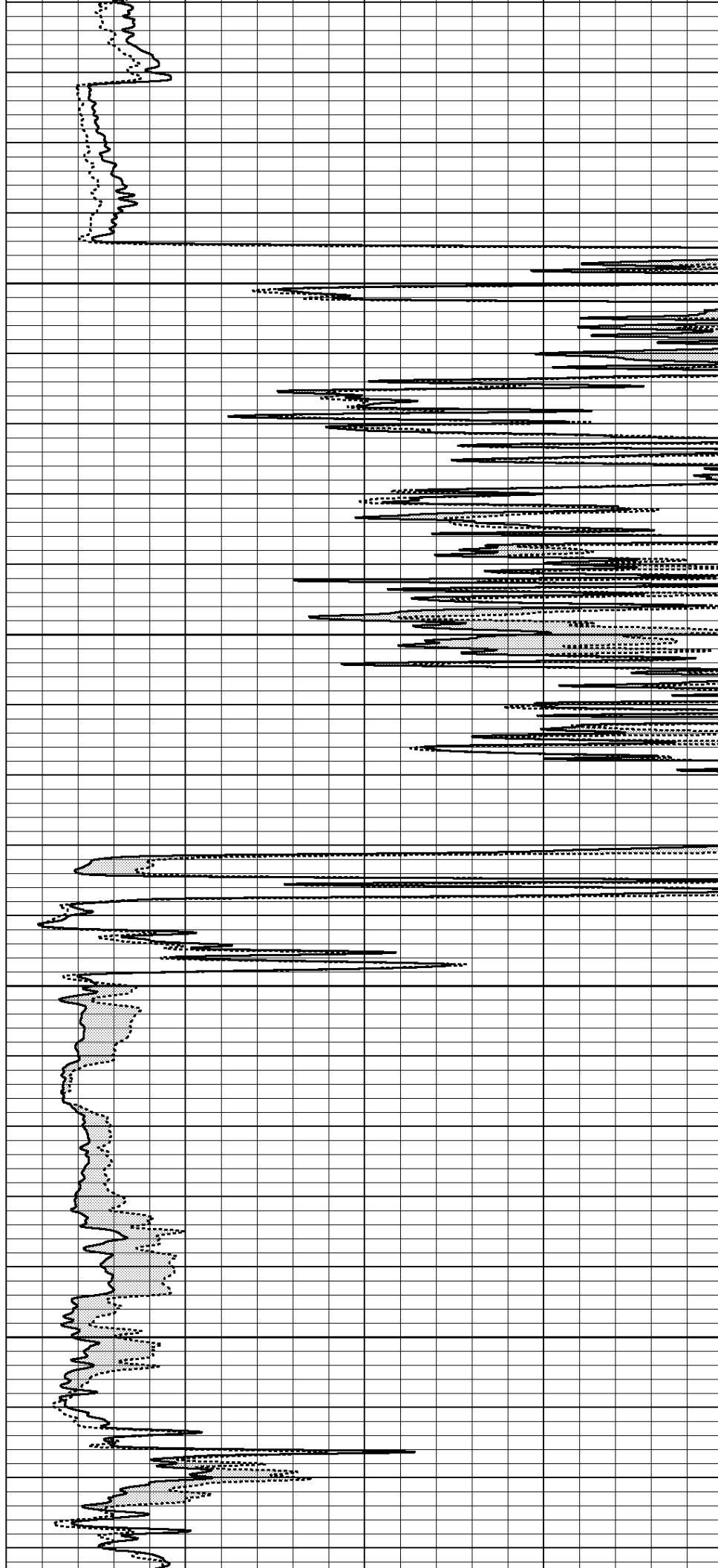


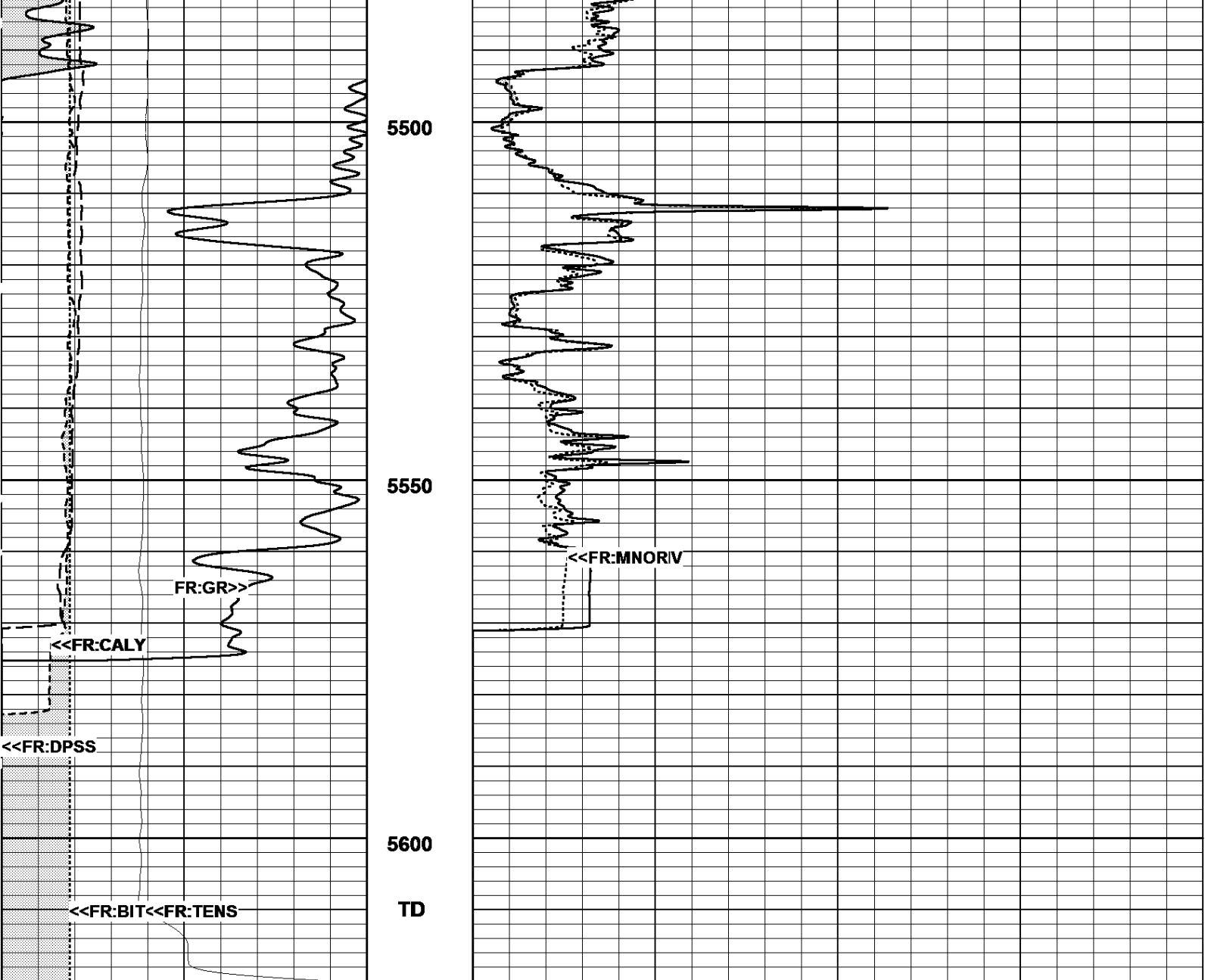
5300

5350

5400

5450



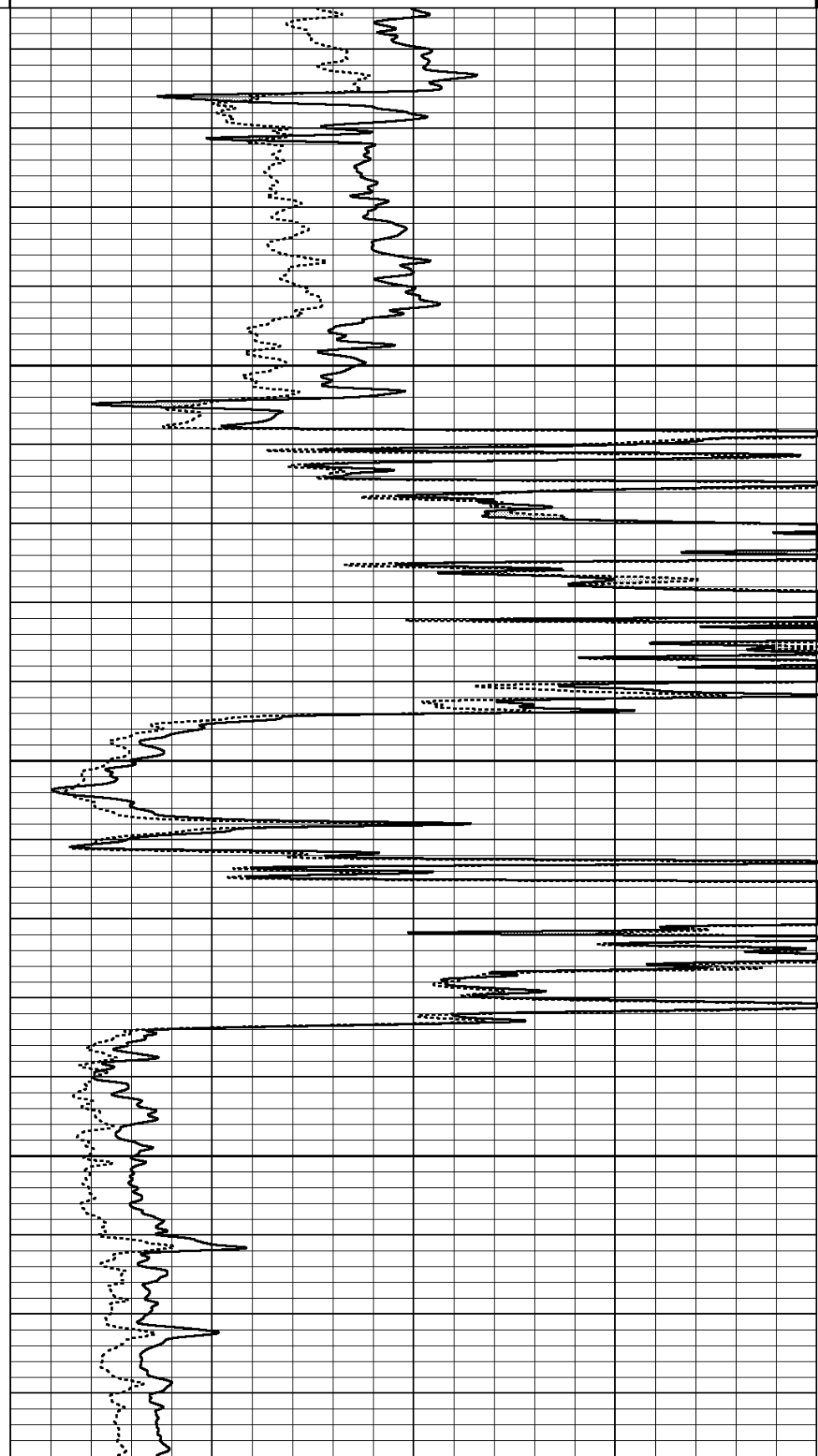
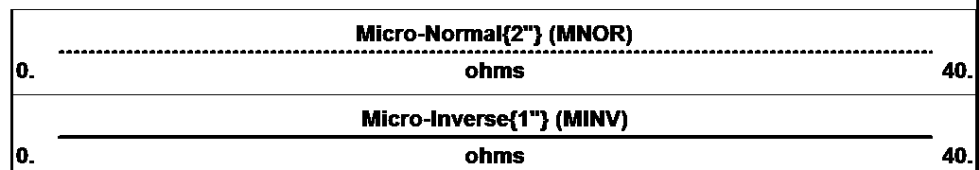
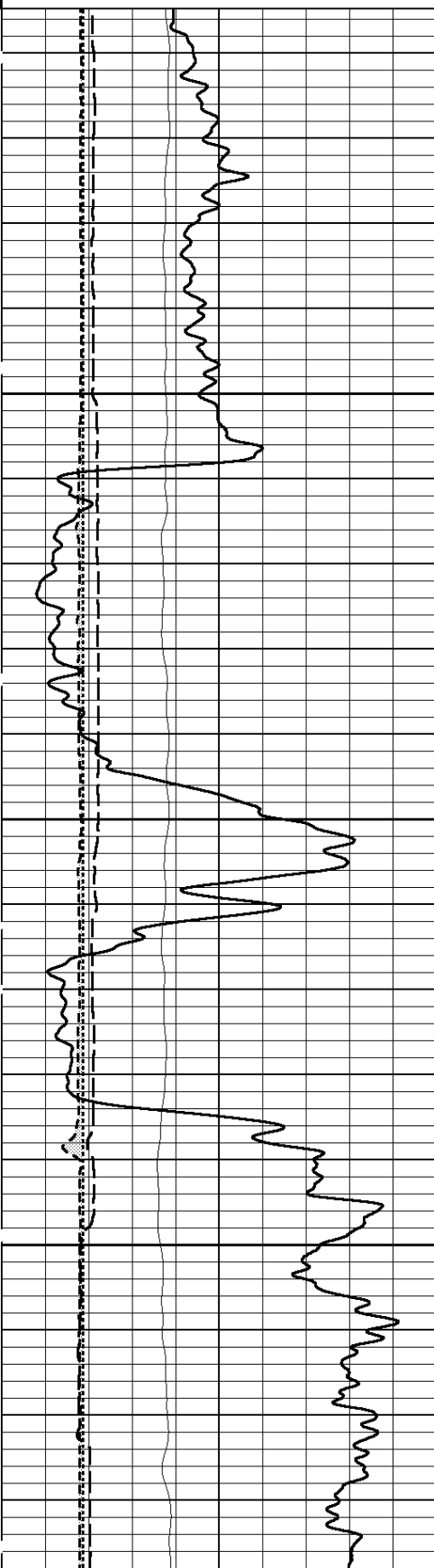
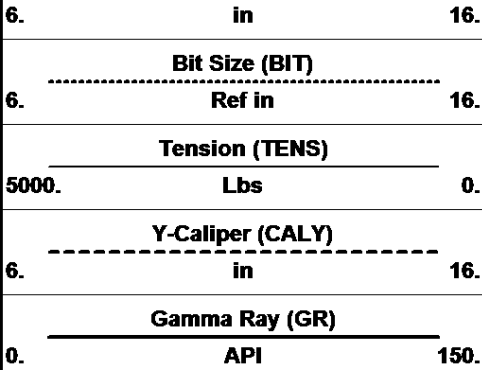


Gamma Ray (GR)		Micro-Inverse{1"} (MINV)	
0.	API	0.	ohms
150.		40.	
Y-Caliper (CALY)		Micro-Normal{2"} (MNOR)	
6.	in	0.	ohms
16.		40.	
Tension (TENS)			
5000.	Lbs		
0.			
Bit Size (BIT)			
6.	Ref in		
16.			
MicroLog-Caliper			
6.	in		
16.			

09/26/2013	MAIN PASS (5"/100Ft)	Log UP - (VER 11.14a)
22:28:39 ⇒ Start Time		Start Depth⇒ 5620.30 Feet

09/26/2013	REPEAT PASS (5"/100Ft)	Log UP - (VER 11.14a)
22:23:11 ⇒ End Time		End Depth⇒ 5005.00 Feet

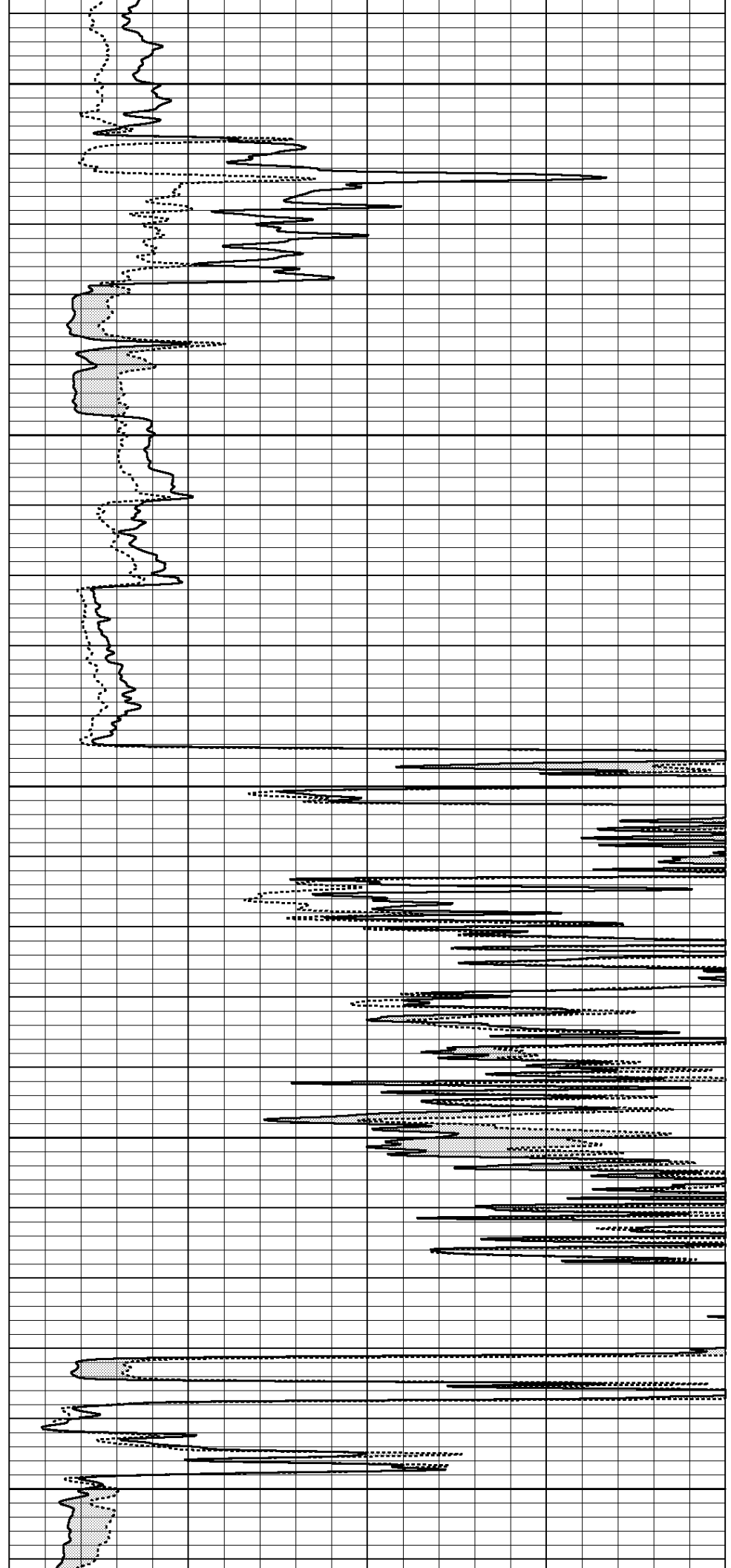
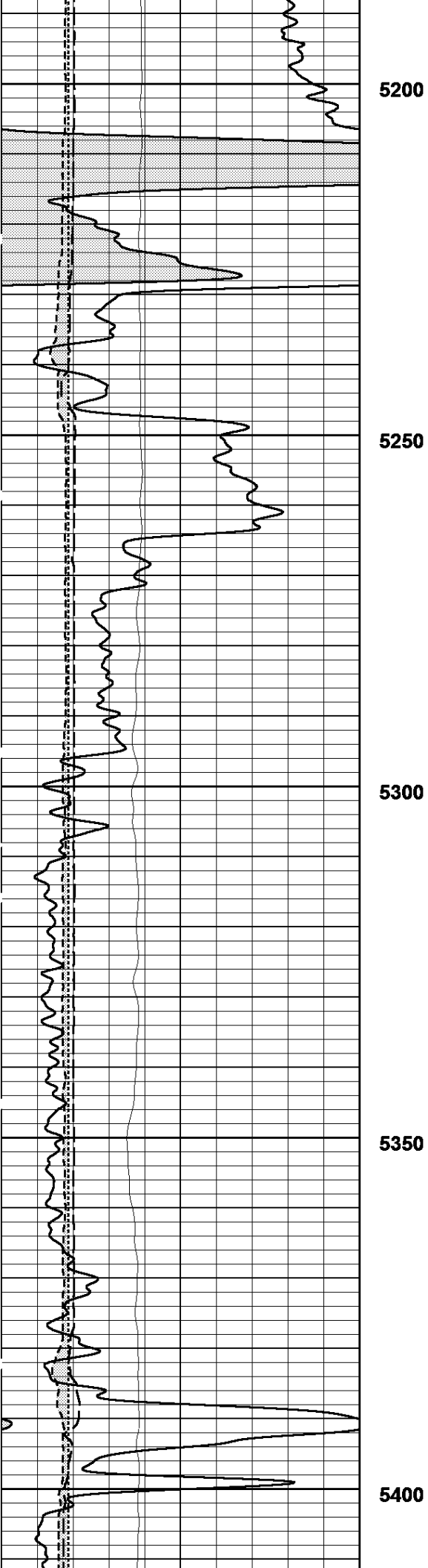
MicroLog-Caliper

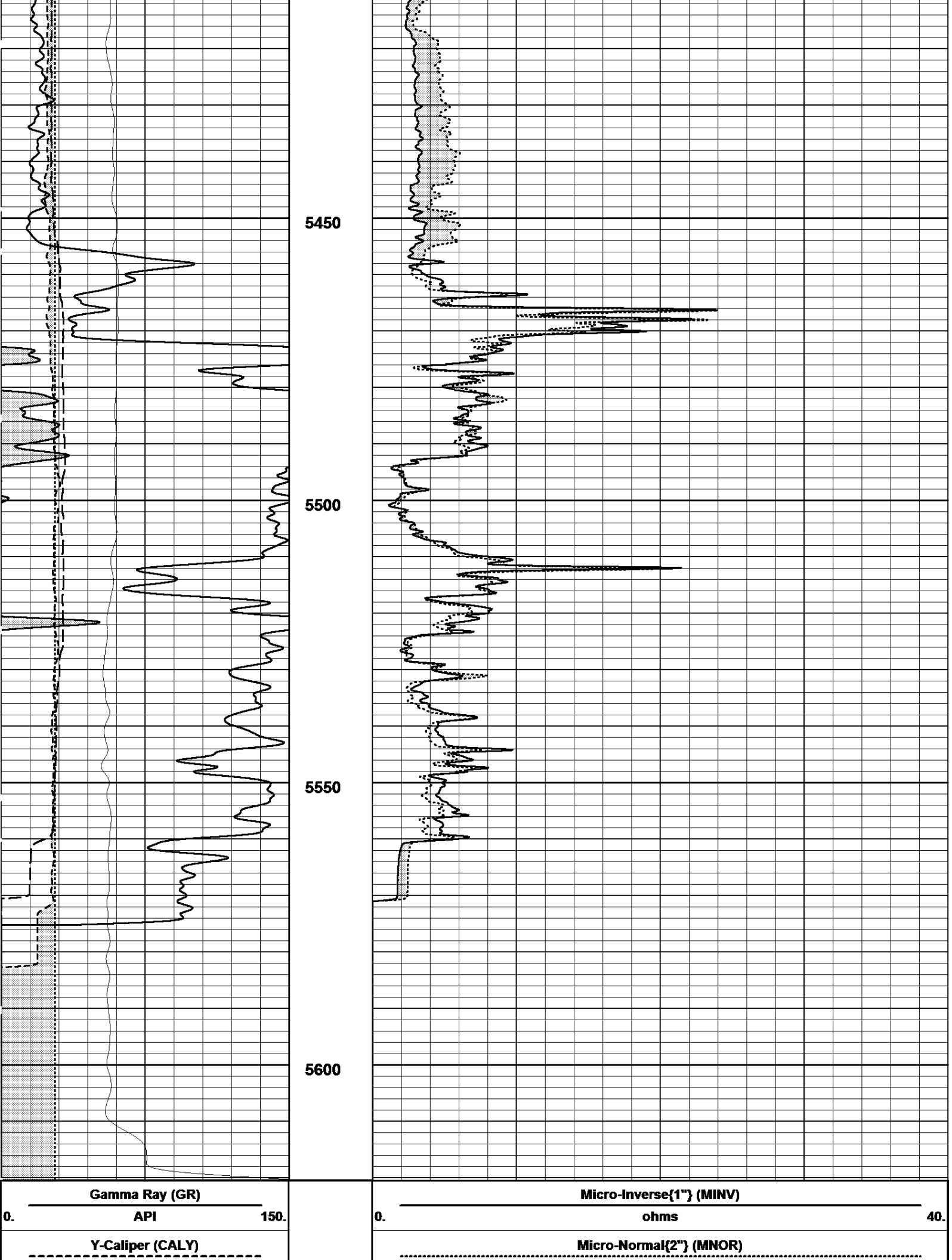


5050

5100

5150





16.	in	16.	0.	ohms	40.
Tension (TENS) 5000. Lbs 0.					
Bit Size (BIT) 6. Ref in 16.					
MicroLog-Caliper 6. in 16.					
09/26/2013					
22:04:58 => Start Time					
REPEAT PASS (5"/100Ft)					
Log UP - (VER 11.14a)					
Start Depth=> 5620.30 Feet					

ANY CAL - 4

SERIAL NUM

Serial?

MASTER CALIBRATIONS

	ZeroVal: 0.000 Mknuts	CalVal: 400.000 Mknuts	Gain/Offset	CALIBRATION DATE	CALIBRATION TIME
BASE CALS	23.663 - raw	71.037 - raw	5.615 - gain -23.663 - off	M/D/Y> 11/12/2004	H:M:S> 12:46:18

ANY CAL - 5

SERIAL NUM

Serial?

MASTER CALIBRATIONS

	ZeroVal: 0.000 Mknuts	CalVal: 500.000 Mknuts	Gain/Offset	CALIBRATION DATE	CALIBRATION TIME
BASE CALS	24.500 - raw	89.786 - raw	5.556 - gain -24.500 - off	M/D/Y> 11/12/2004	H:M:S> 12:47:47

ANY CAL - 1

SERIAL NUM

Serial?

BLANKET NUM

1A

MASTER CALIBRATIONS

	BackGrnd	CalVal: 100.000 Mknuts	Gain/Offset	CALIBRATION DATE	CALIBRATION TIME
BASE CALS	-0.059 - raw	26.967 - raw	3.700 - gain -16.000 - off	M/D/Y> 11/12/2004	H:M:S> 12:40:27

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

ANY CAL - 3

SERIAL NUM

Serial?

MASTER CALIBRATIONS

	ZeroVal: 0.000 Mknuts	CalVal: 300.000 Mknuts	Gain/Offset	CALIBRATION DATE	CALIBRATION TIME
BASE CALS	20.400 - raw	59.000 - raw	5.068 - gain -20.400 - off	M/D/Y> 11/12/2004	H:M:S> 12:44:49

ANY CAL - 6

SERIAL NUM

Serial?

MASTER CALIBRATIONS

	ZeroVal: 0.000 Mknuts	CalVal: 600.000 Mknuts	Gain/Offset	CALIBRATION DATE	CALIBRATION TIME
BASE CALS	27.600 - raw	756.700 - raw	0.793 - gain -27.600 - off	M/D/Y> 11/12/2004	H:M:S> 12:49:5

Company

VAUGHN GOOD OIL COMPANY

Well

NUSSER #4-16

Field

S.E. HARDTNER

County

BARBER

State

KANSAS

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GAMMA RAY
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