

Company MIDWESTERN EXPLORATION COMPANY
Well MARIAN #2-14
Field WIDE AWAKE
County STEVENS
State KANSAS



DUAL INDUCTION
LATEROLOG - SP
GAMMA RAY

SEC		TWP		RGE		OTHER SERVICES: LDT CNL XY CALIPER MICROLOG		
14		35S		35W				
Location. 2310 FNL & 330' FEL					SE SE NE			
SURF. SAME					AP#. 015-189-22753			
Permanent Datum		Ground Level		Elev		ELEVATIONS		
Log Measured From		Kelly Bushing				K.B. 2963 G.L. 2951 D.F. N/A		
Drilling Measured From		Kelly Bushing						

Date	28-OCT-2010				
Run No.	ONE				
TD Driller	6770	ft		ft	
TD RECON	6775	ft		ft	
Bot Logged Interval	6774	ft		ft	
Top Logged Interval	1649	ft		ft	
Casing Depth Driller	8 5/8	in.	@ 1651	in.	@
Casing Depth RECON	8 5/8	in.	@ 1649	in.	@
Bit Size	7 7/8	in.		in.	
Drilling Fluid Type	DISPERSED				
Density	9.2	Viscosity	55		
Fluid Loss	8.0	PH	9.0		
Source Of Sample	Flowline				
RM @ Measured Temp	2.22	Ohmm	@ 75	Ohmm	@
RMF @ Measured Temp	1.66	Ohmm	@ 75	Ohmm	@
RMC @ Measured Temp	2.77	Ohmm	@ 75	Ohmm	@
RM @ MRT	1.23	Ohmm	@ 141	Ohmm	@
Max Recorded Temp	141	DegF		DegF	
Time Drilling Stopped	28-OCT-2010	11:45			
Time Circulation Stopped	28-OCT-2010	14:45			
Time Logger On Bottom	28-OCT-2010	19:17			
Unit Num	S407	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#	H2 DRLG. #1

GENERAL REMARKS SECTION

FIRST RUN IN THE HOLE
CNL AND LDT LOGGED IN A LIMESTONE MATRIX
TOP MARK 1683.6, BOTTOM MARK 6688.6
CNL/LDT LOGGED MATRIX: 2.71 g/cc.

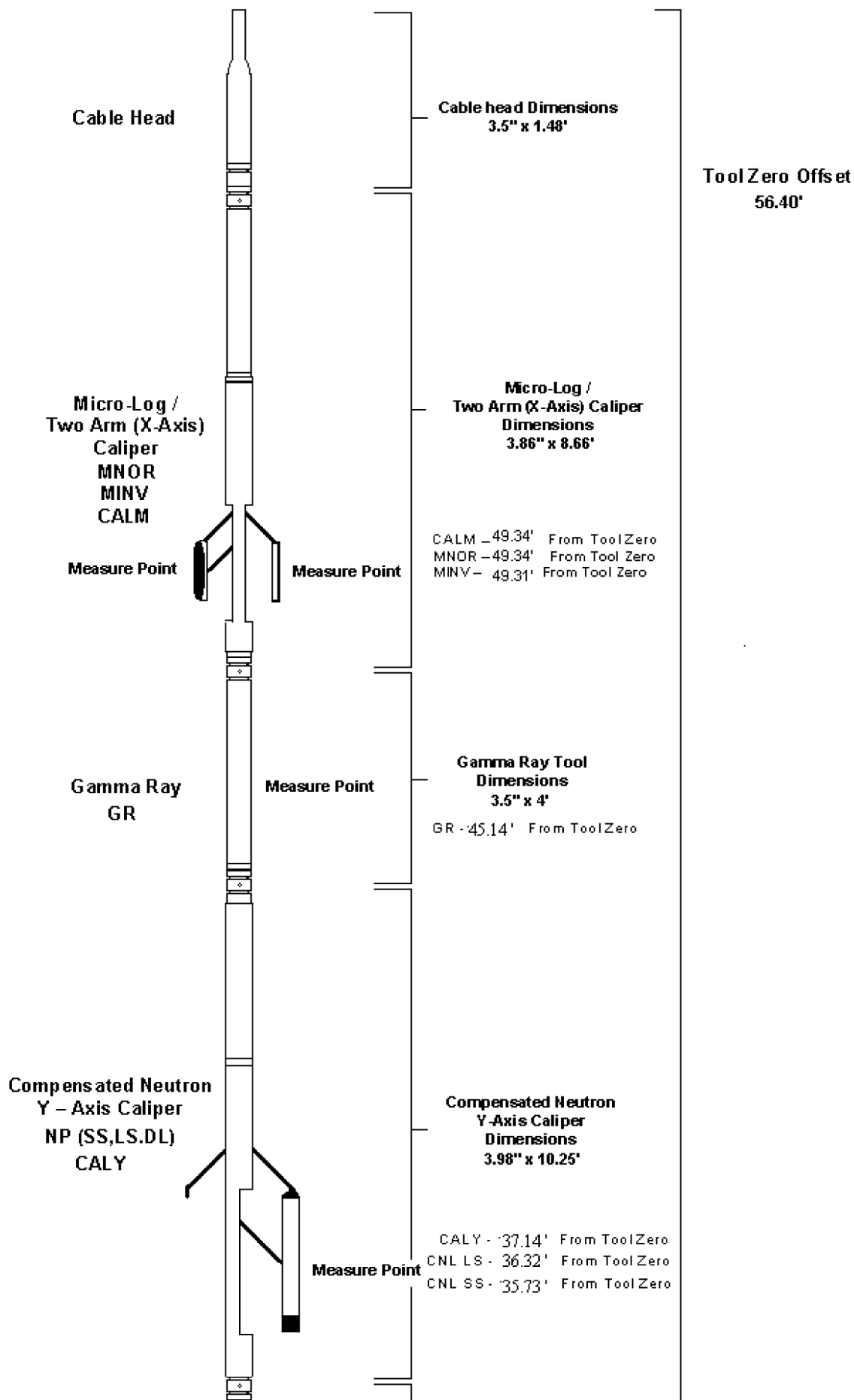
CHLORIDES: 1100 mg/l
LCM: 6 lbs/bbl

AHV CALCULATED ON 4.5" PROD. CASING

THANK YOU FOR USING RECON PETROTECHNOLOGIES LTD.

CREW: J. ROSE, T. DENNETT

**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

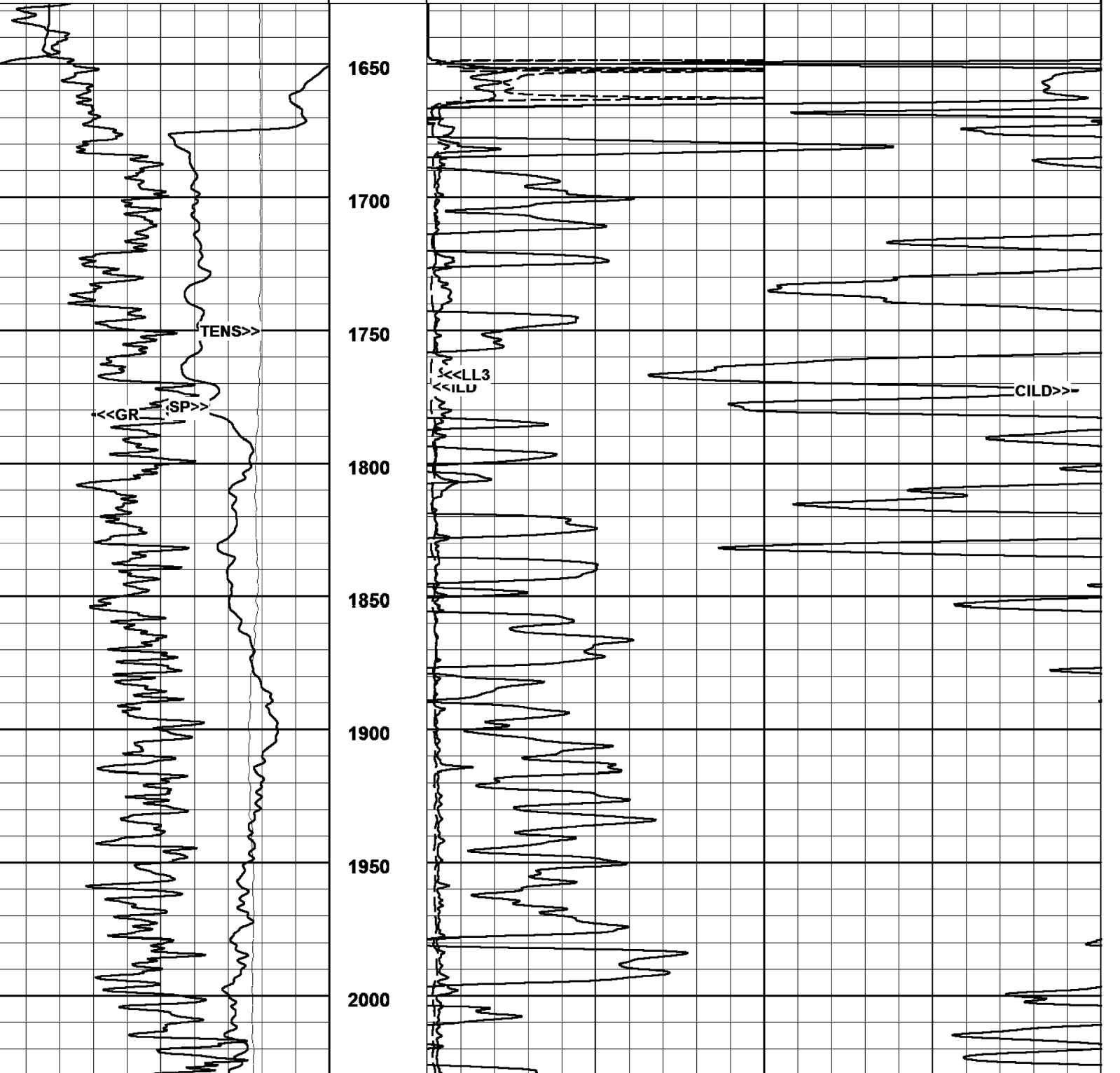
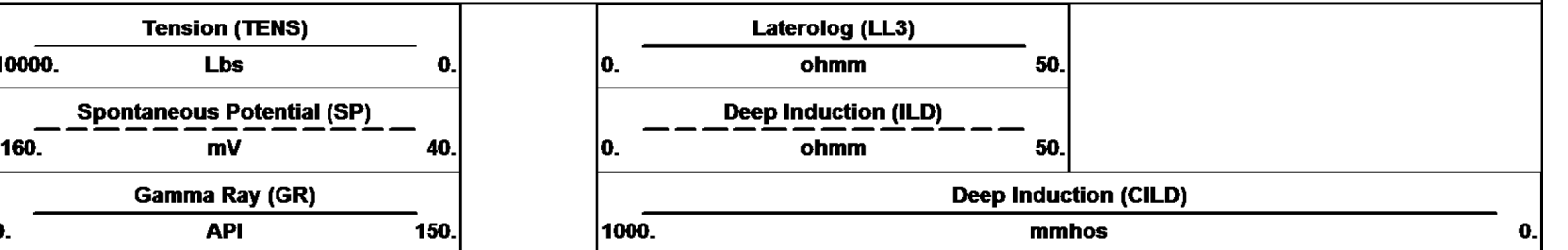
**Tool First Reading
Point**

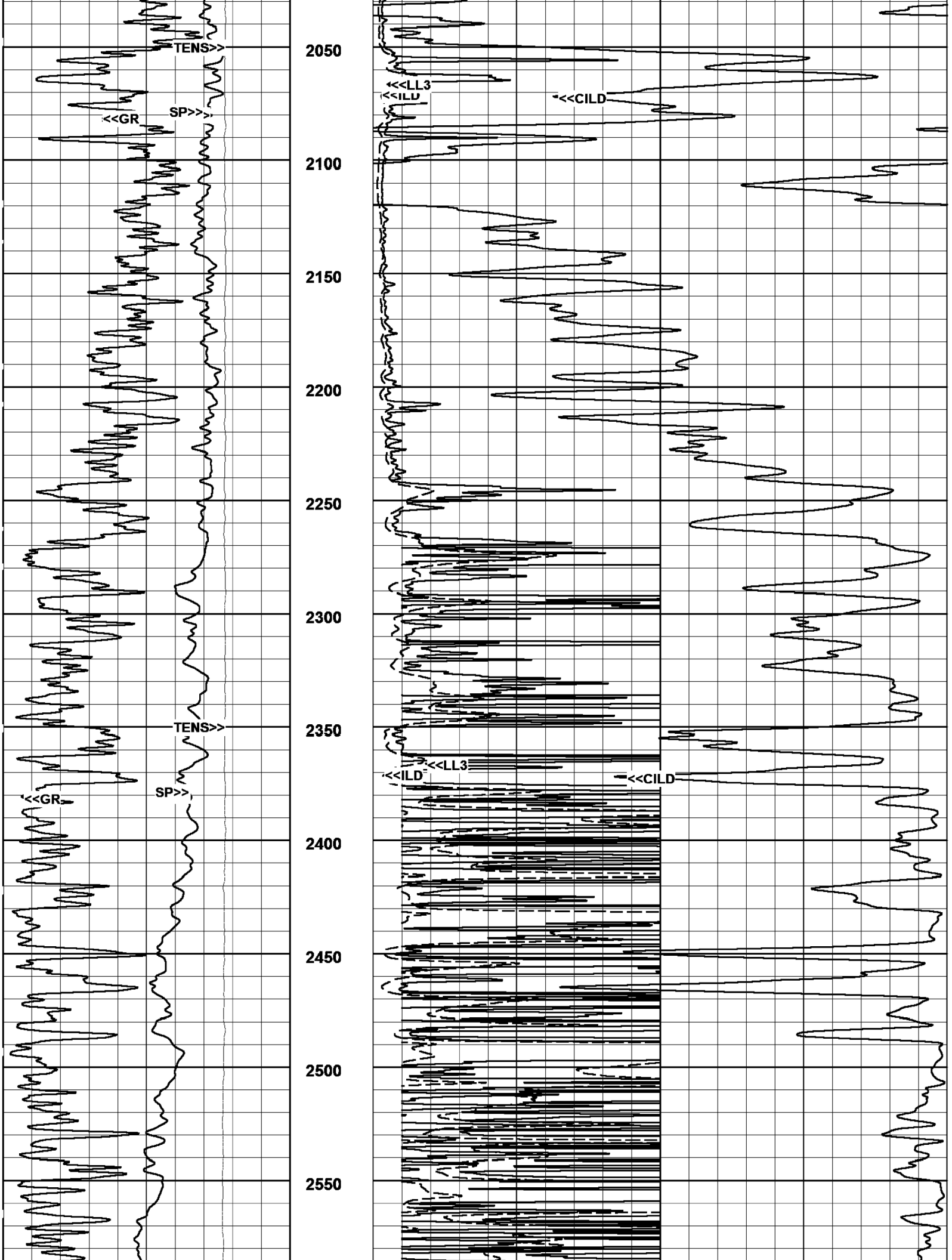
**Laterolog 3
Measure Point**

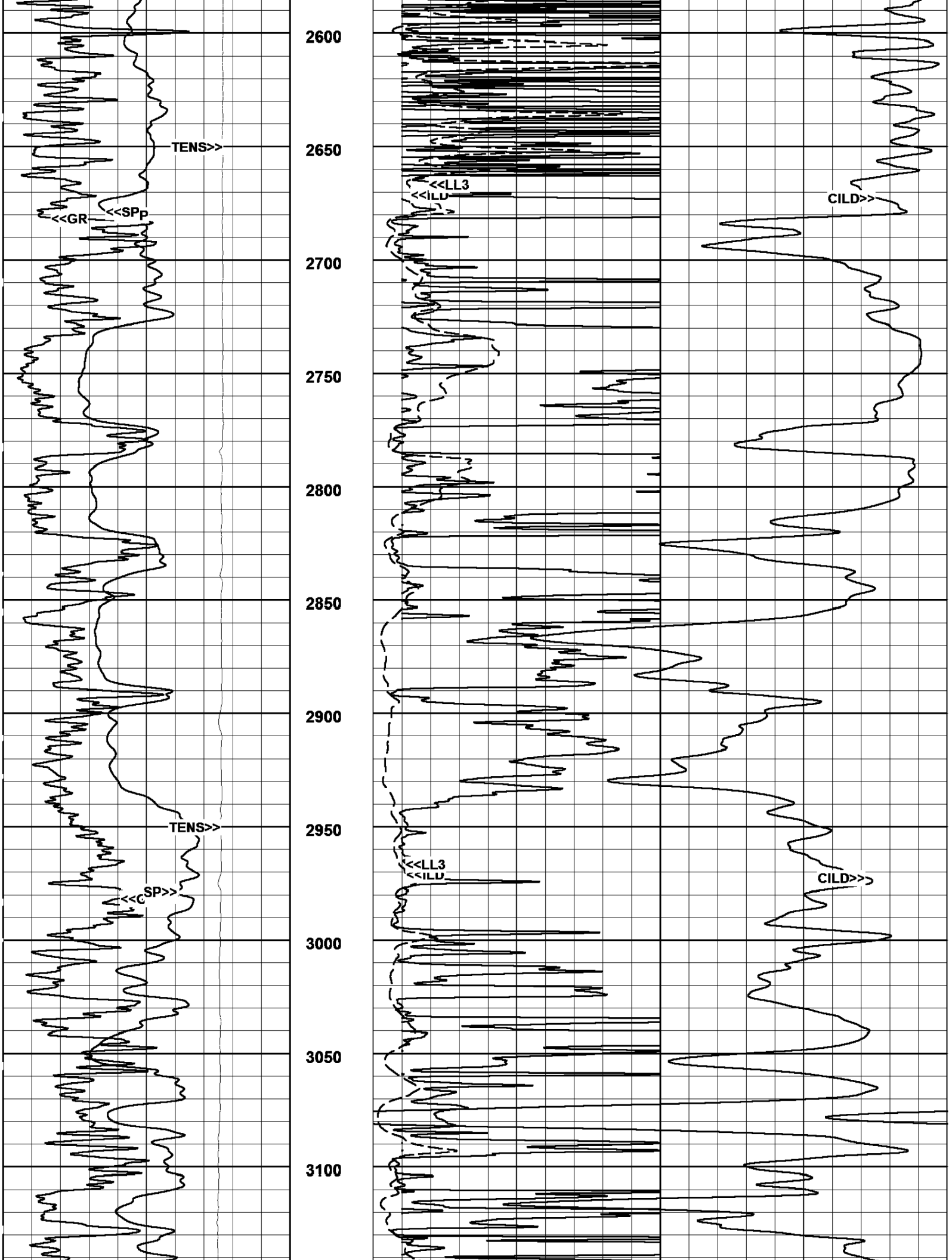
LL3 - 1.67' From ToolZero

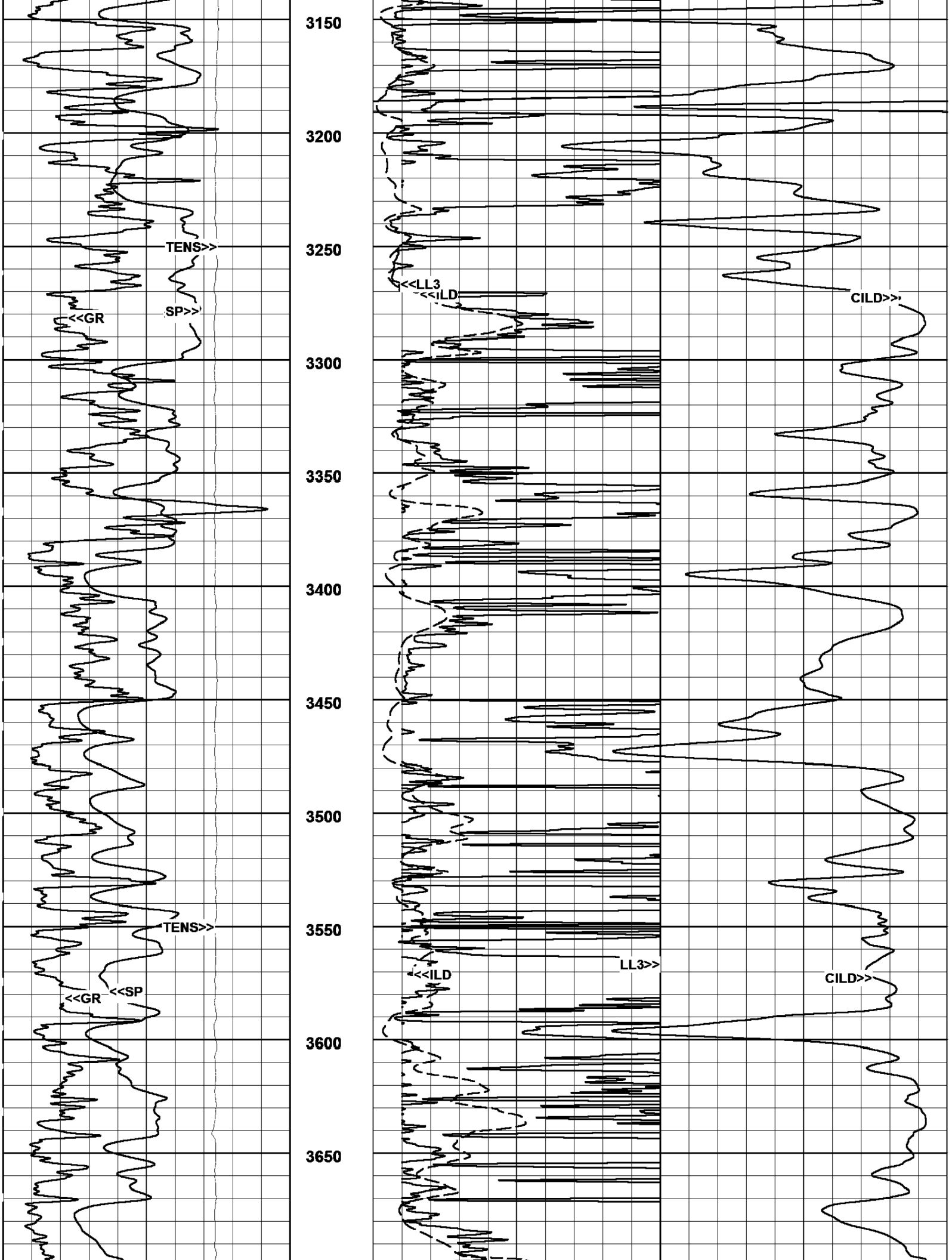
**Tool Zero Point
(Tool Bottom)**

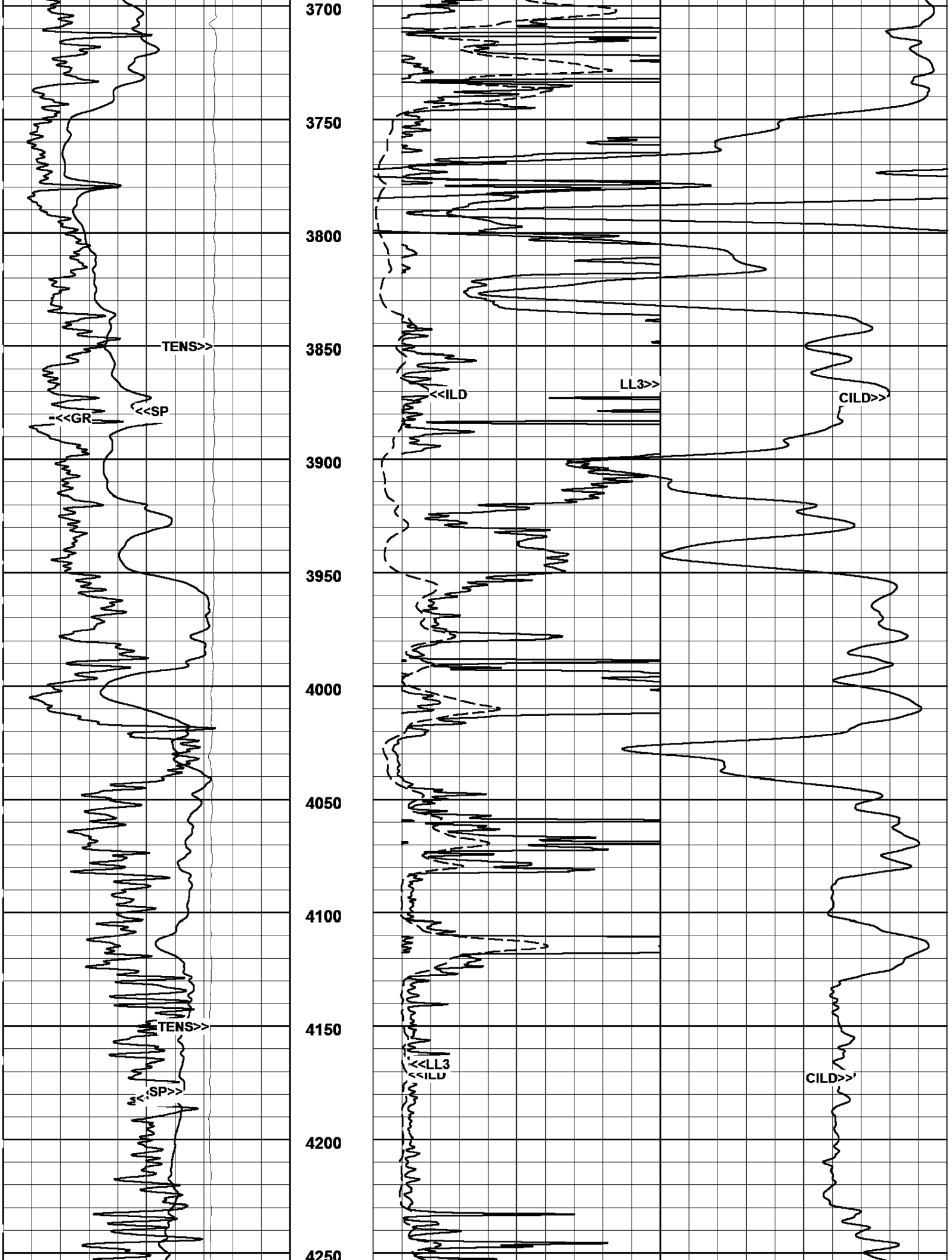
**All Measurements are
taken from Tool Zero**

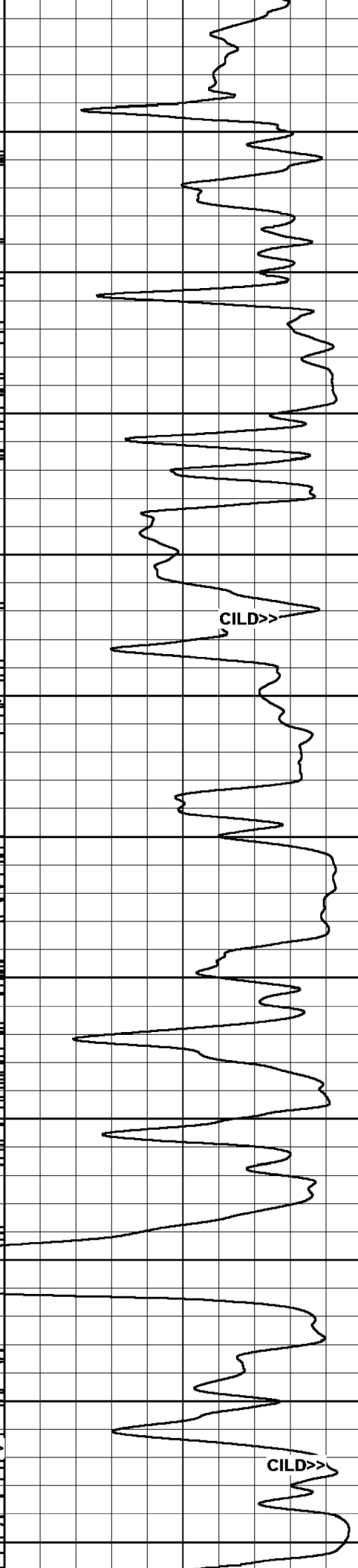
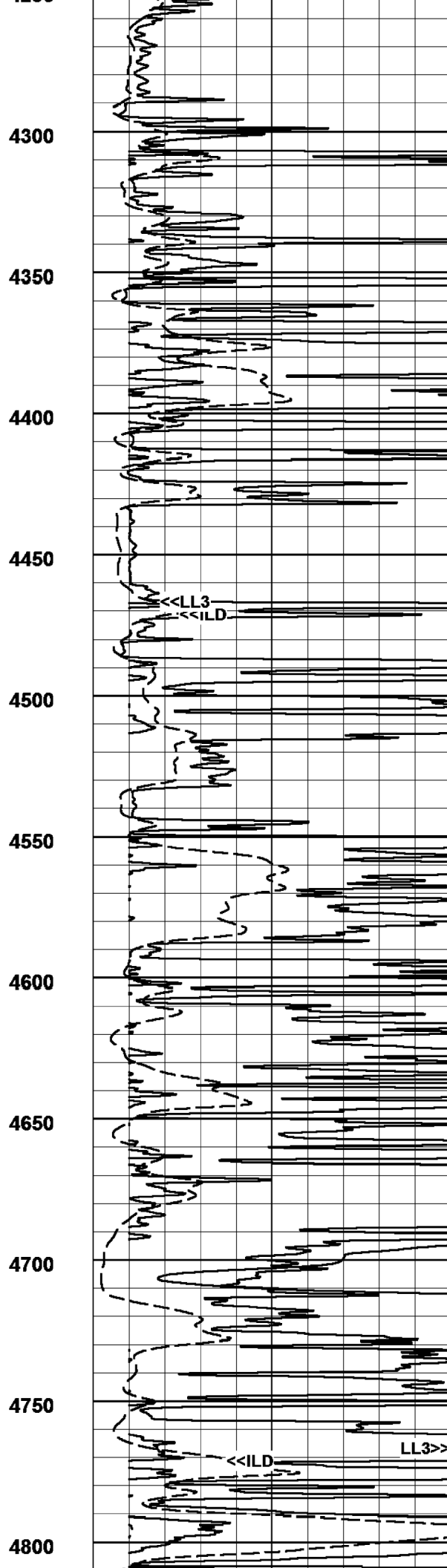
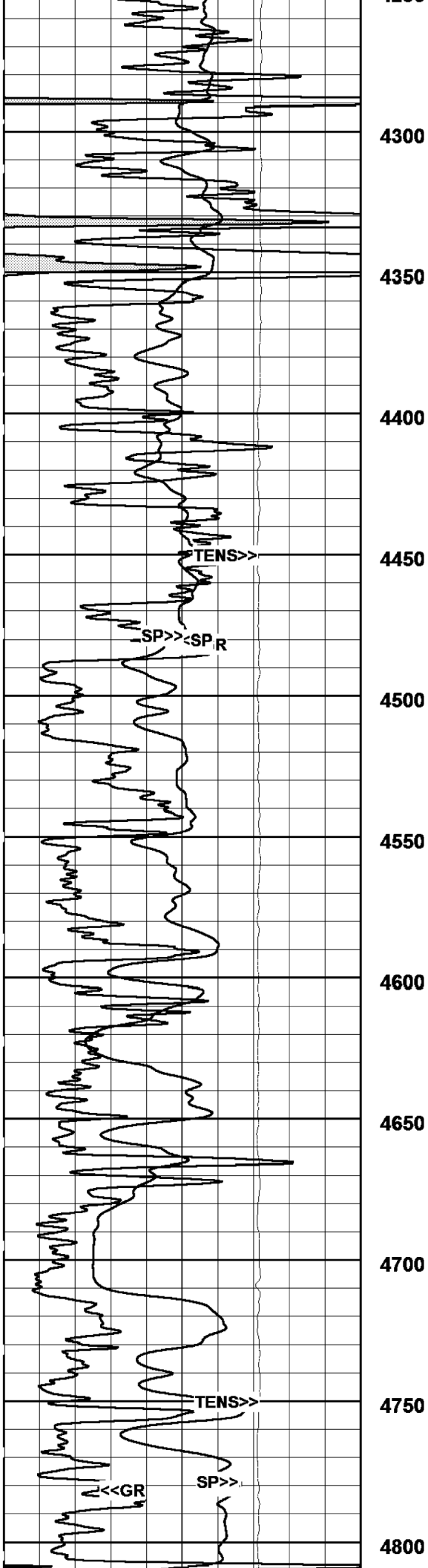


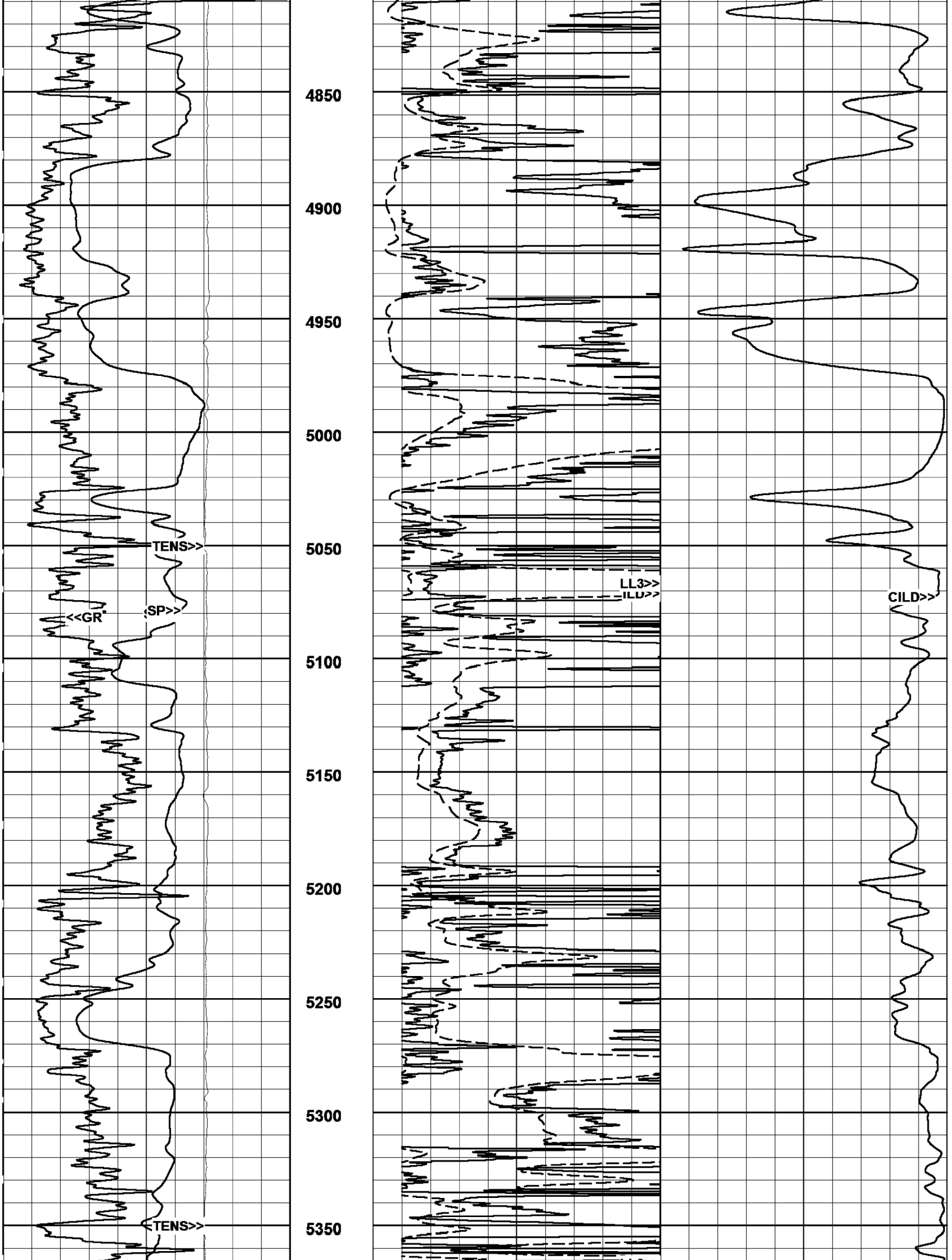


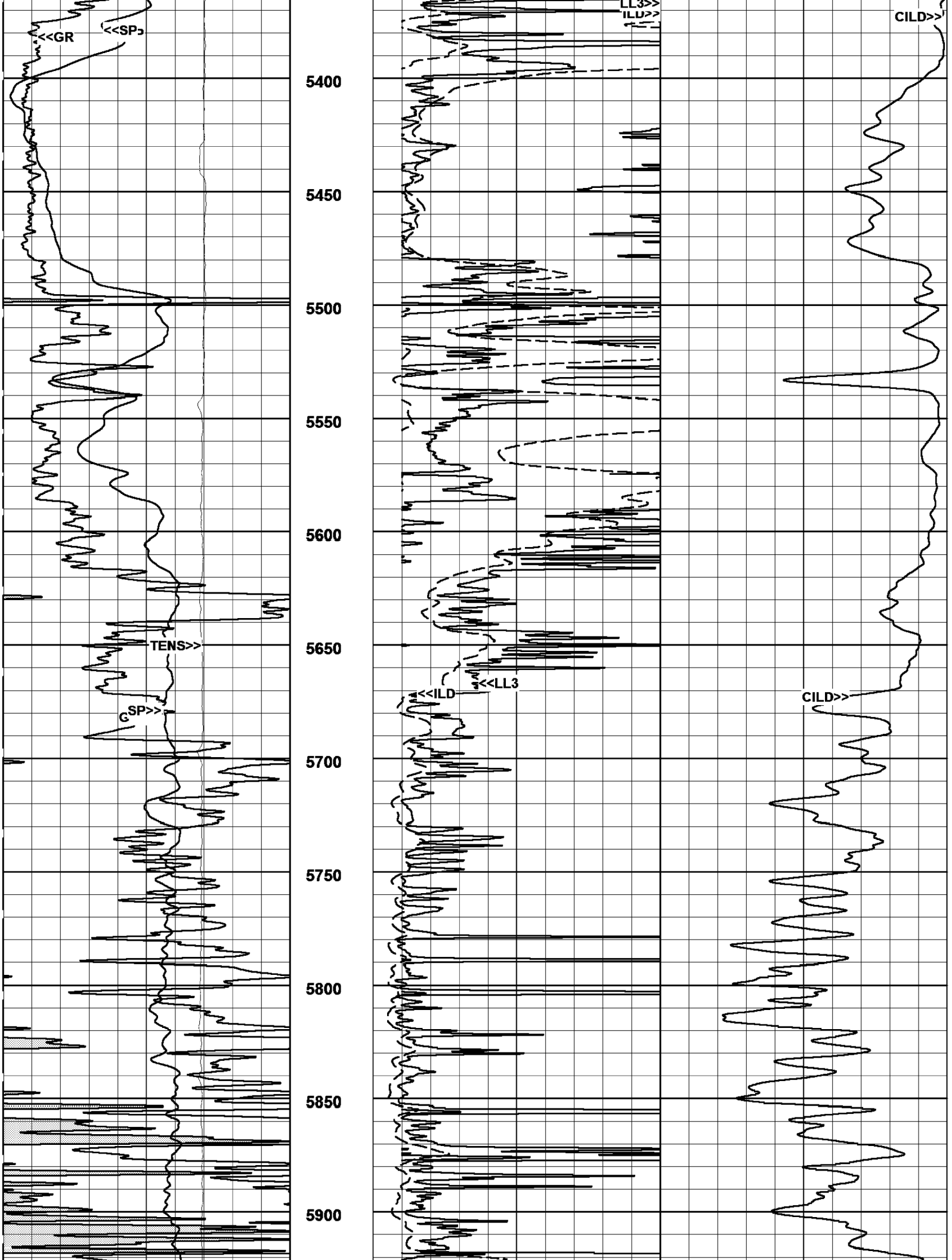


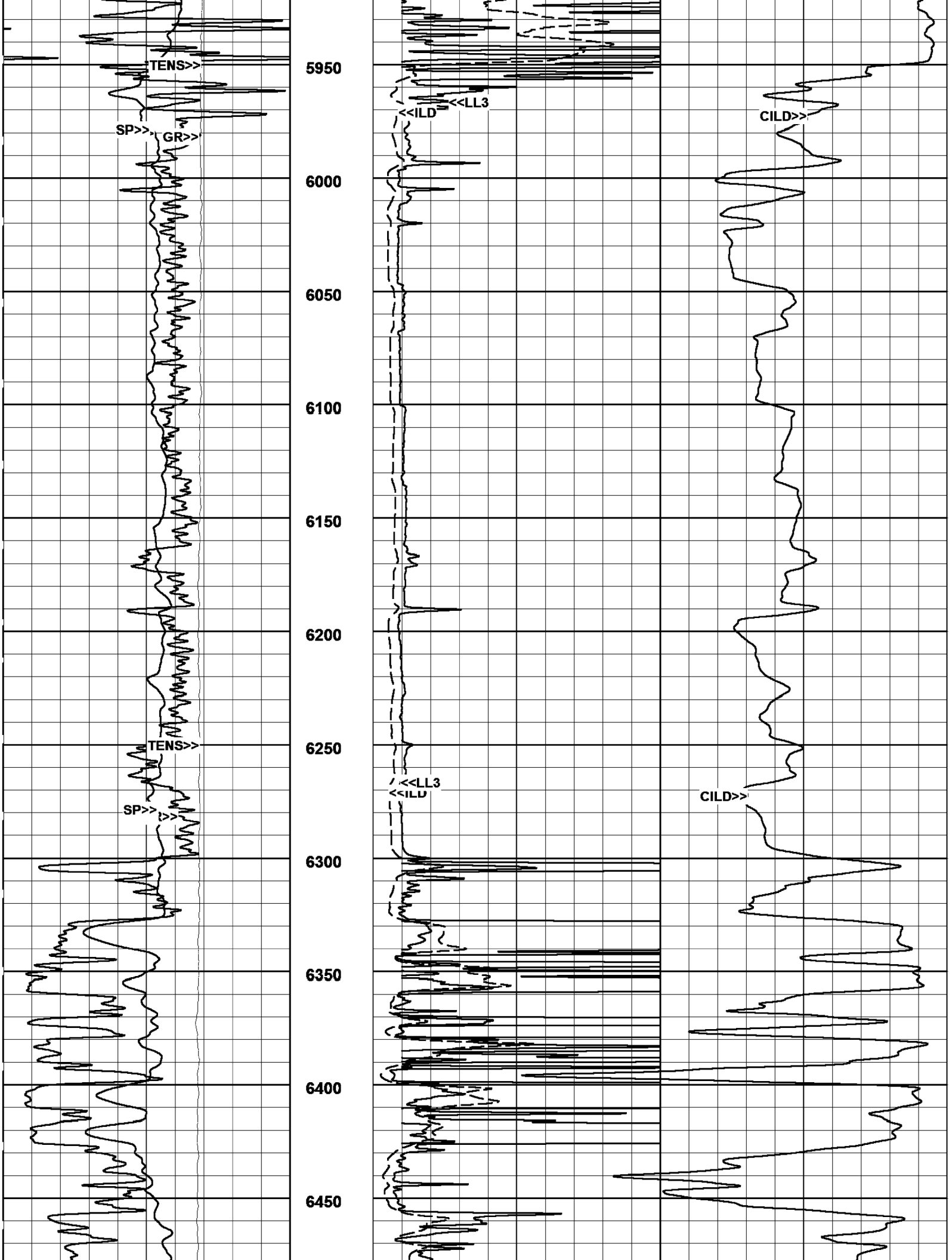


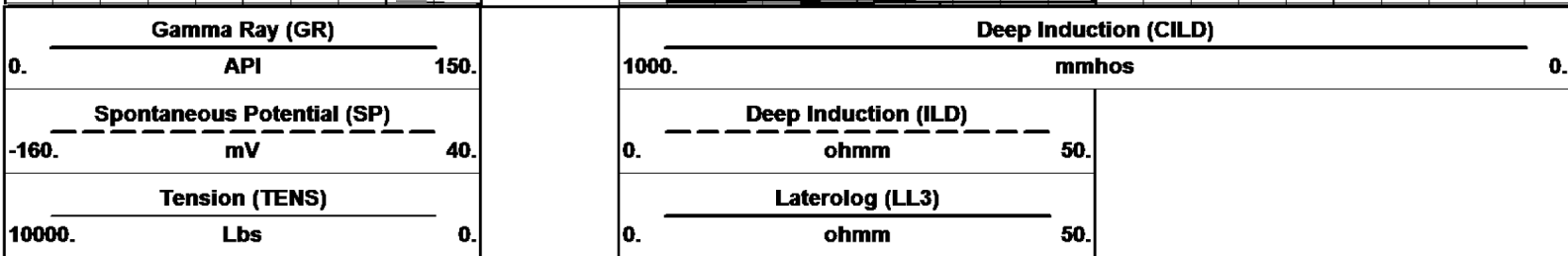
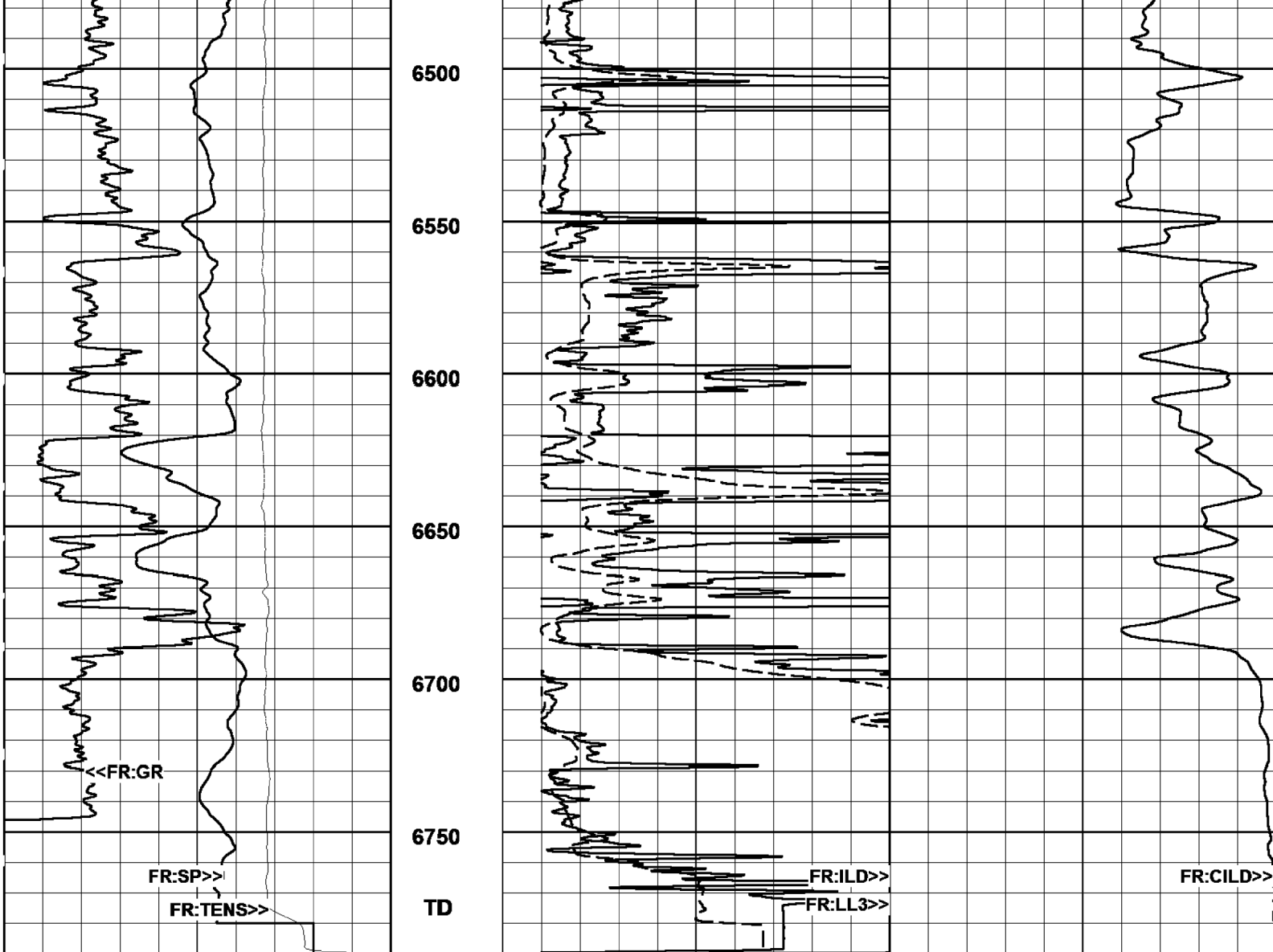












10/28/2010
19:51:29 ⇒ Start Time

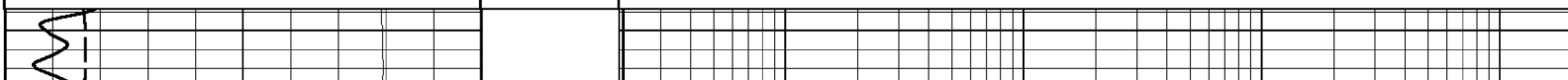
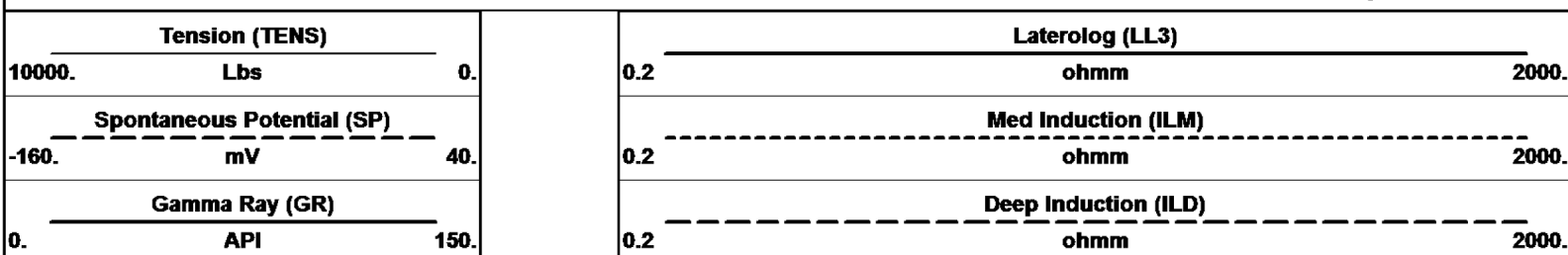
MAIN PASS (2"/100Ft)

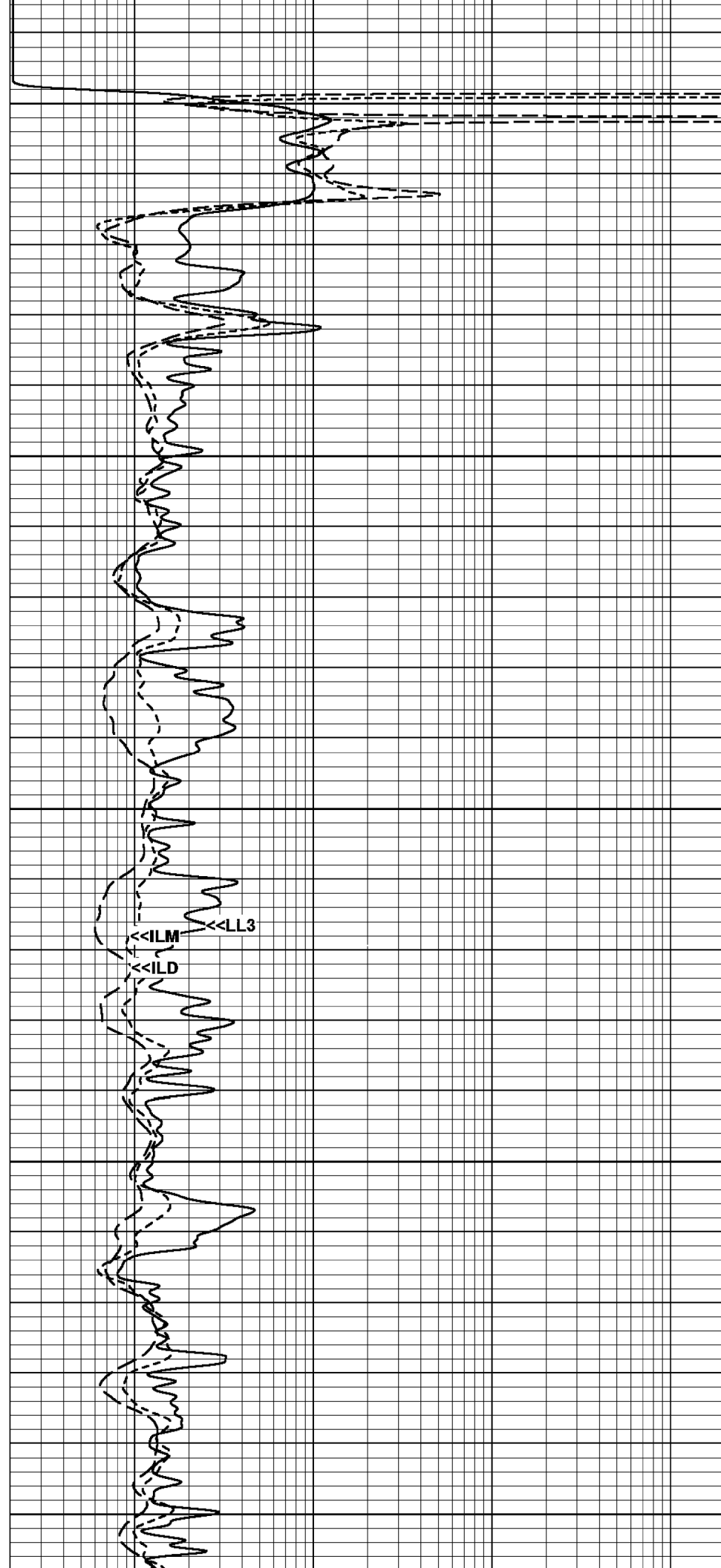
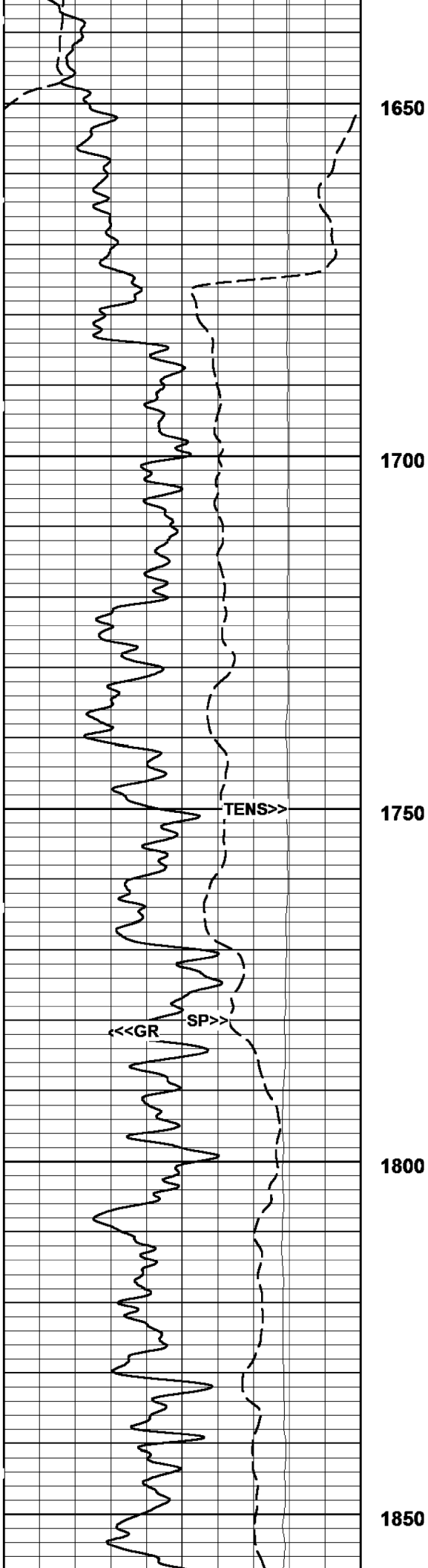
Log UP - (VER 10.16)
Start Depth⇒ 6790.75 Feet

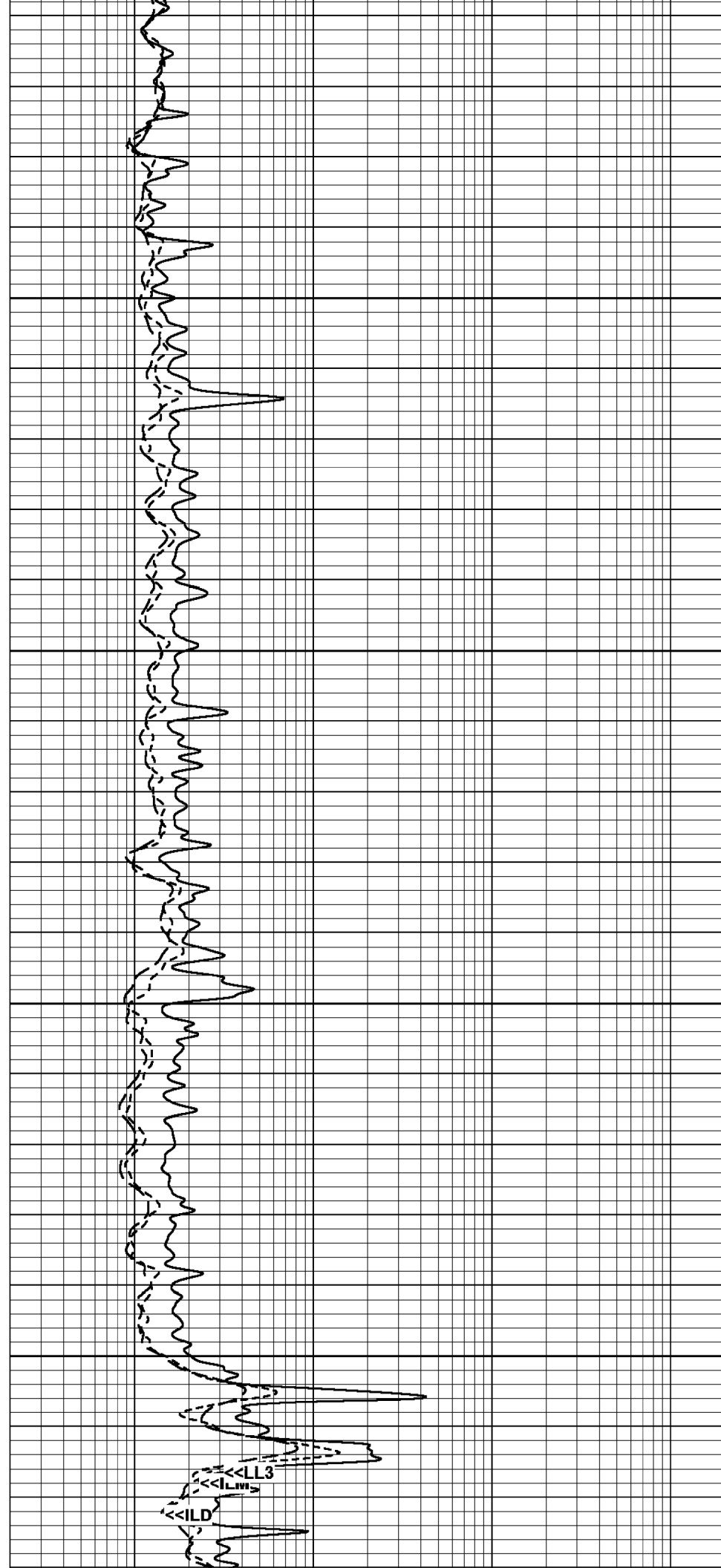
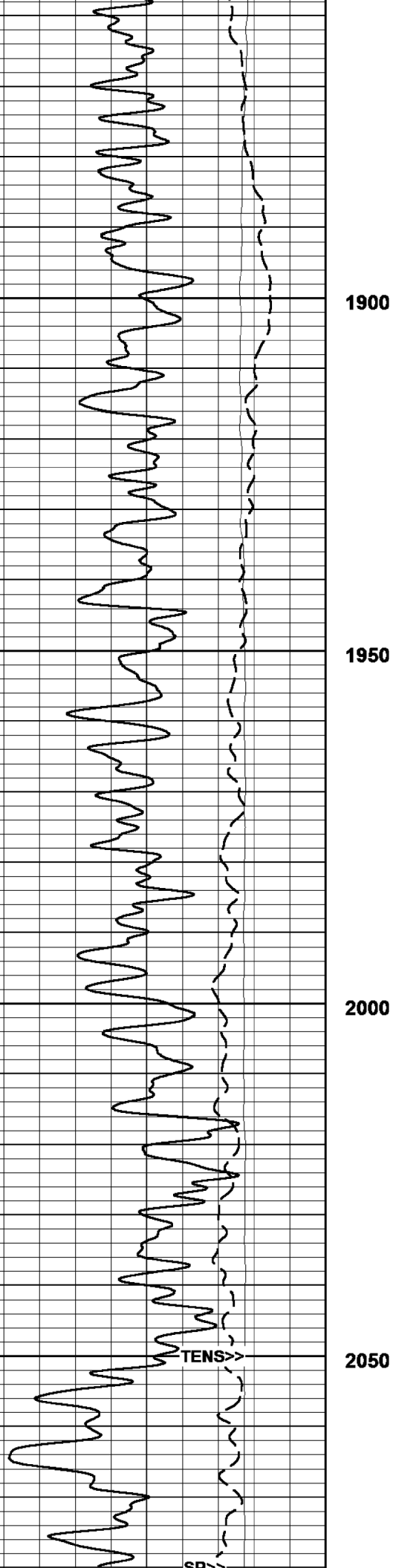
10/28/2010
21:52:57 ⇒ End Time

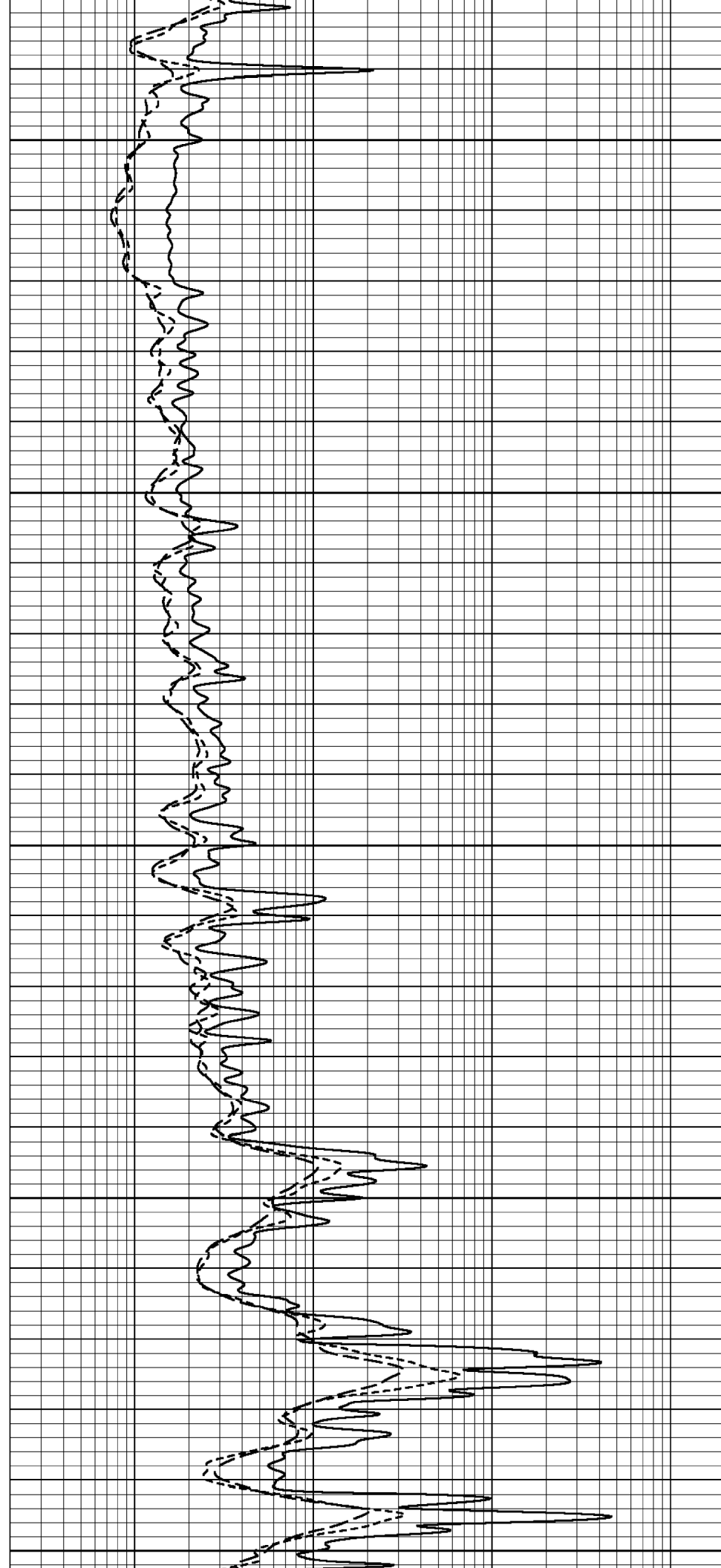
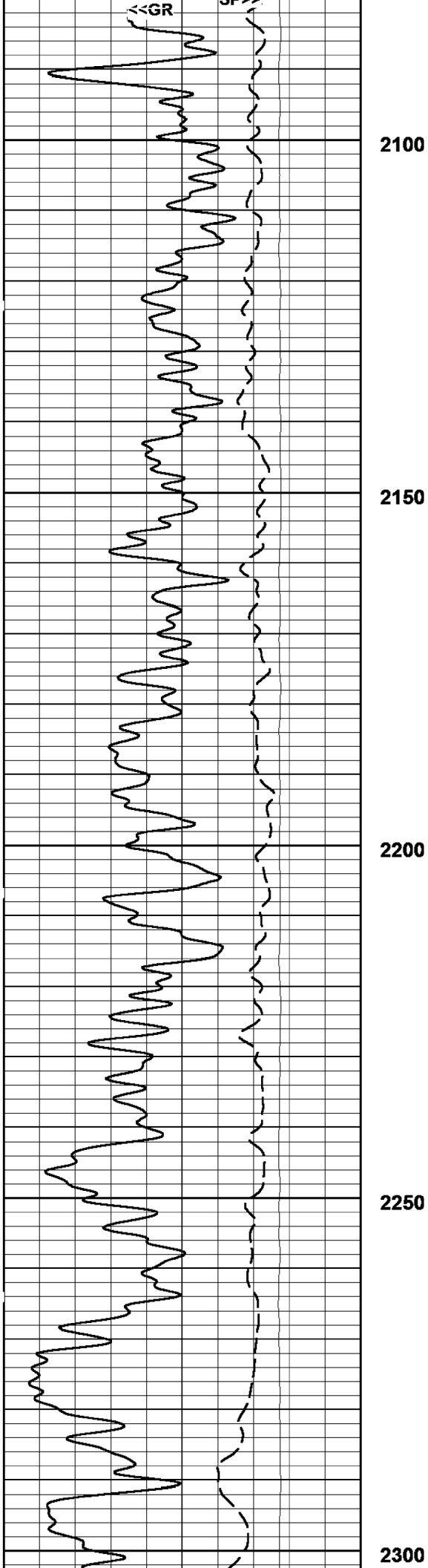
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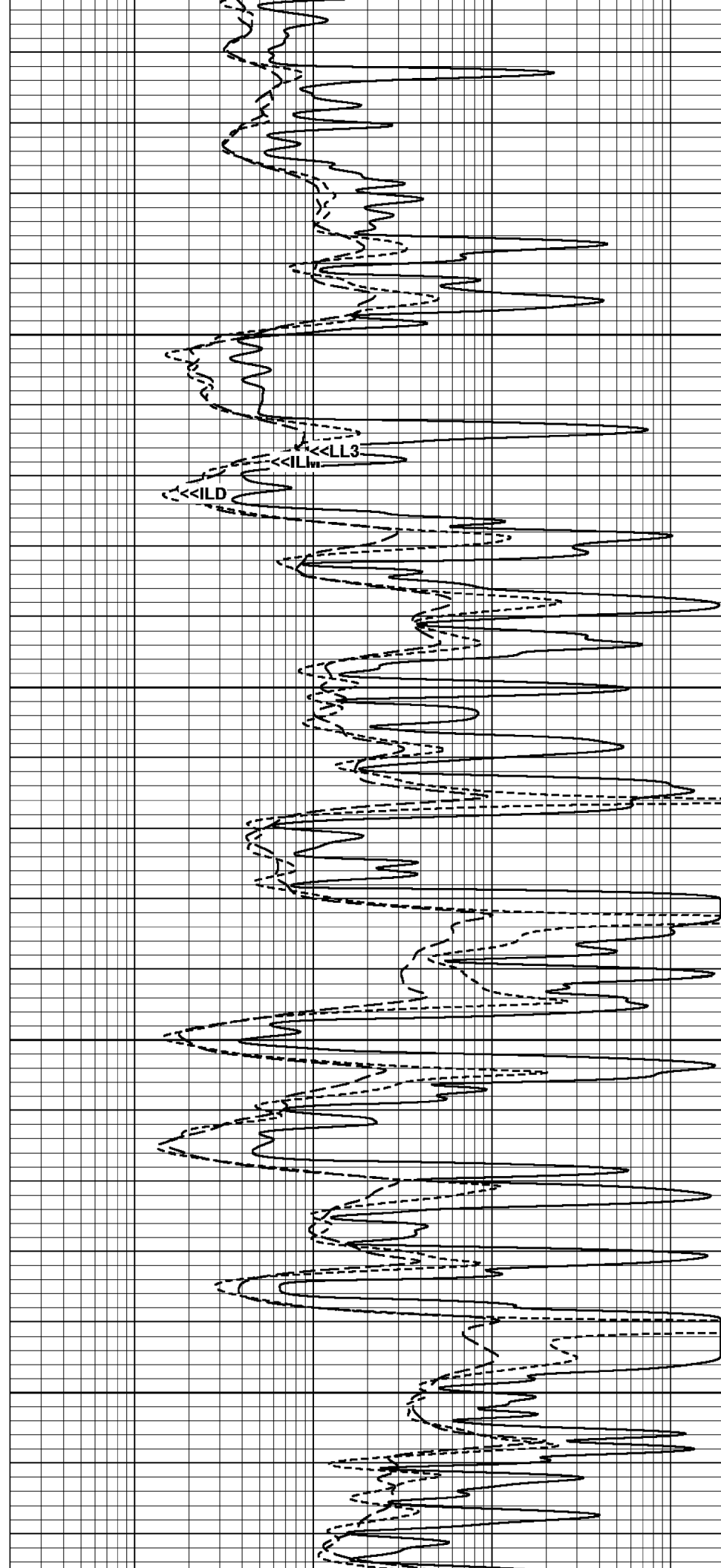
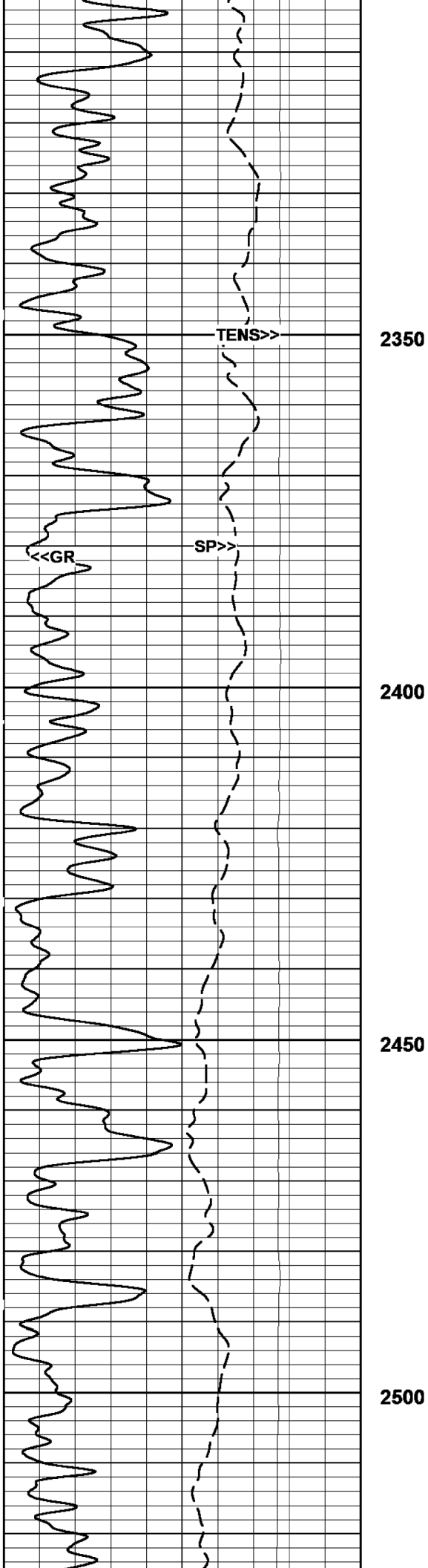
Log UP - (VER 10.16)
End Depth⇒ 1627.90 Feet

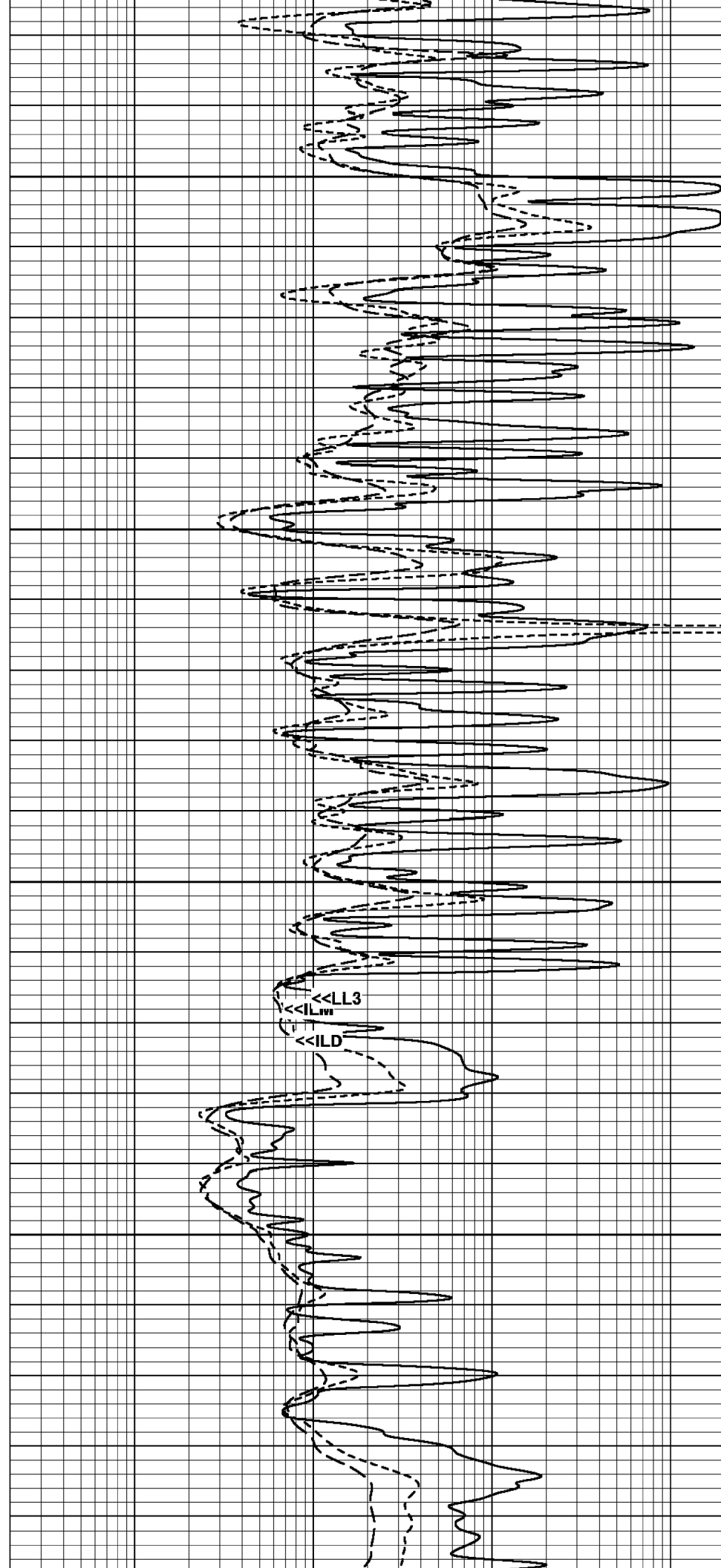
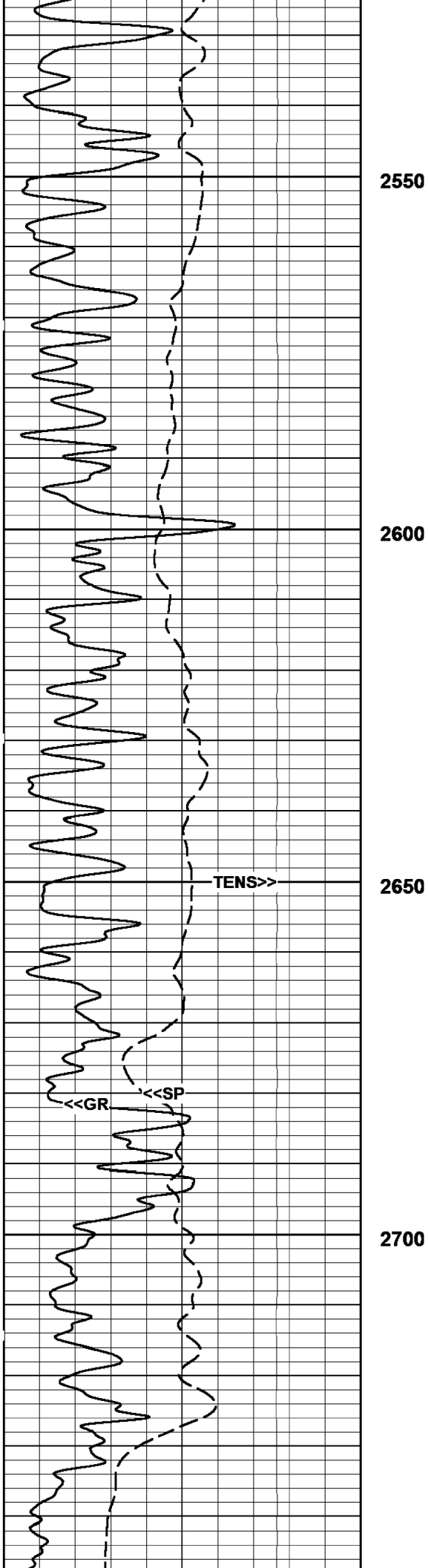


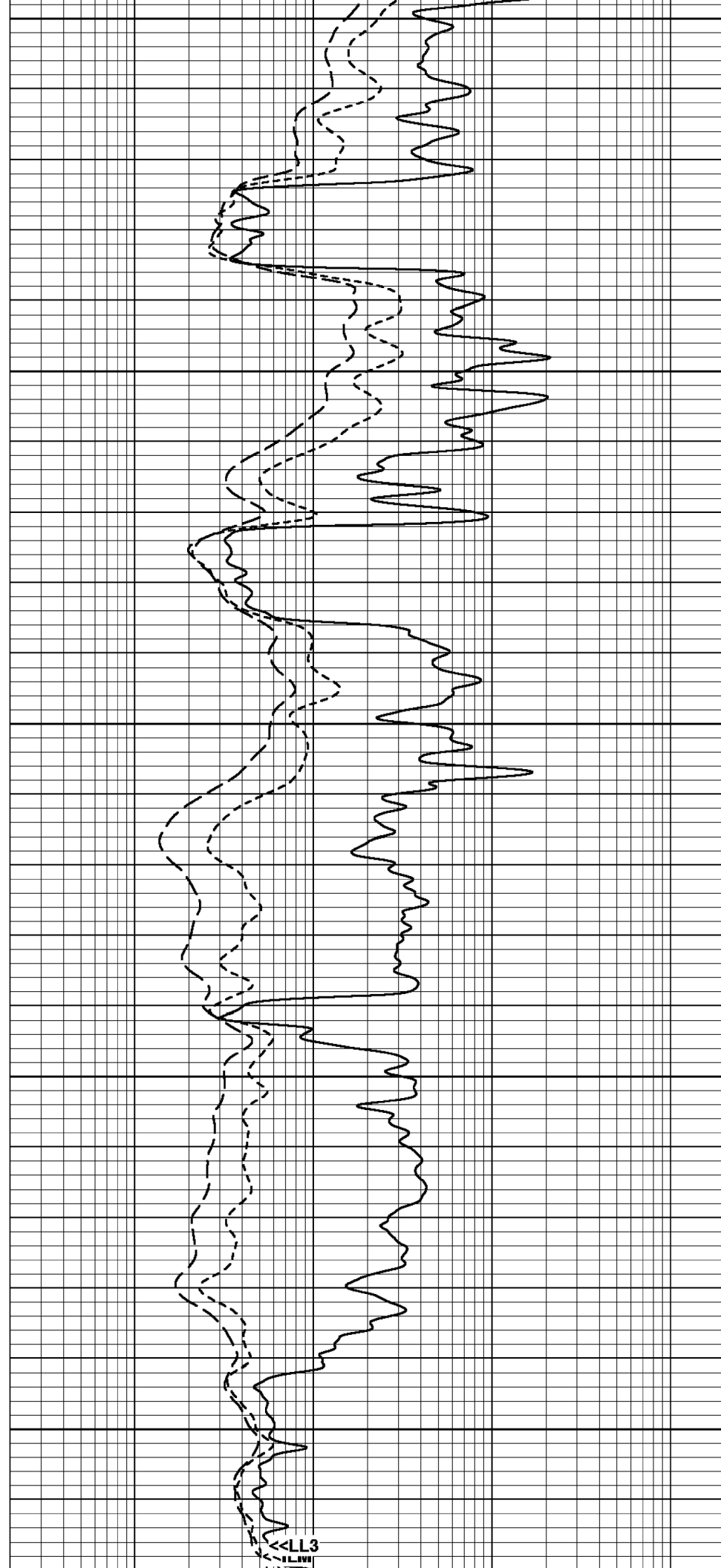
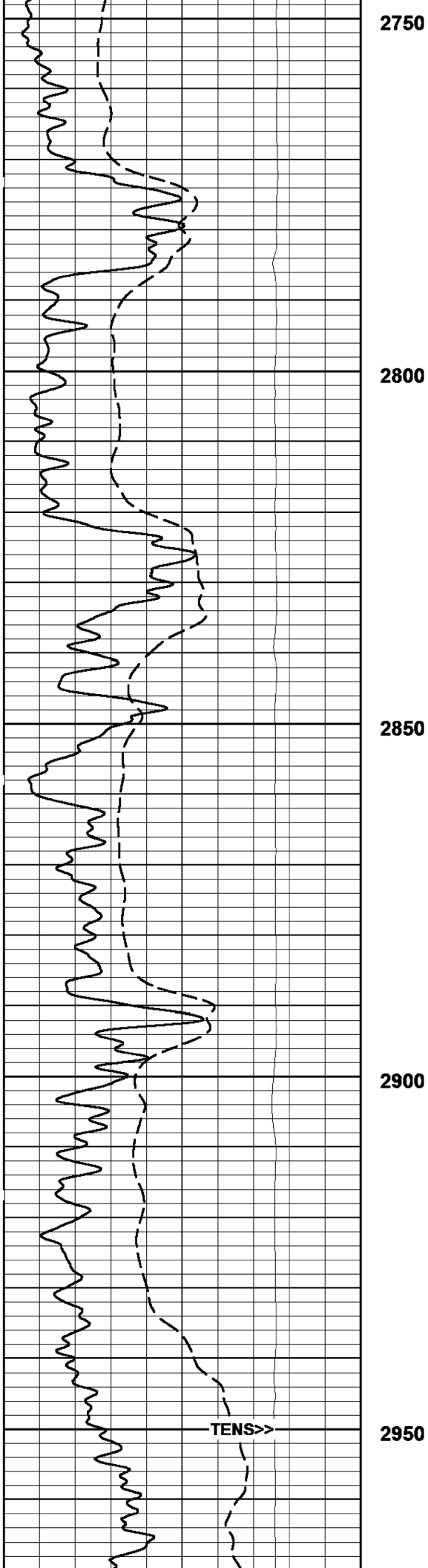


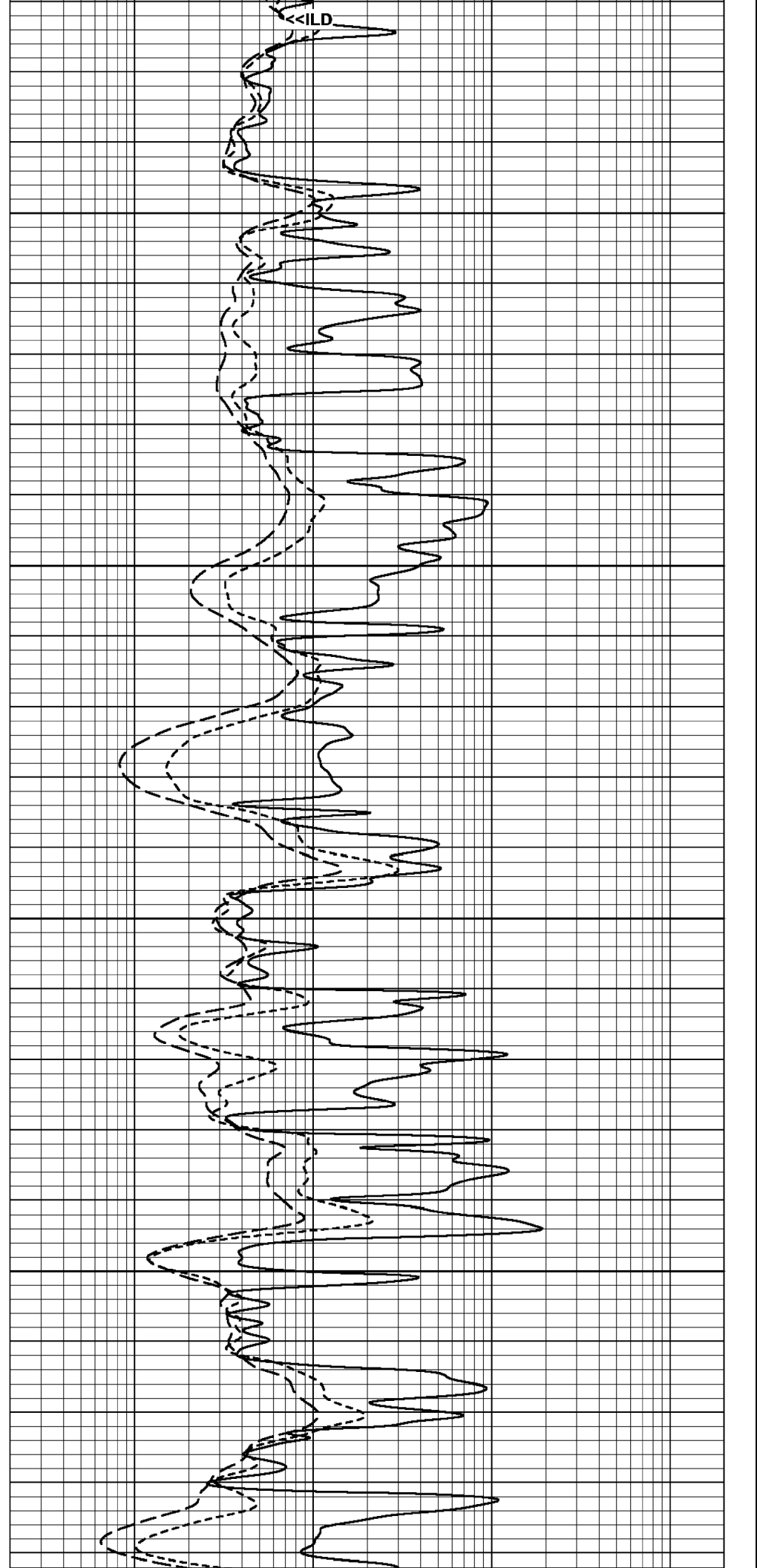
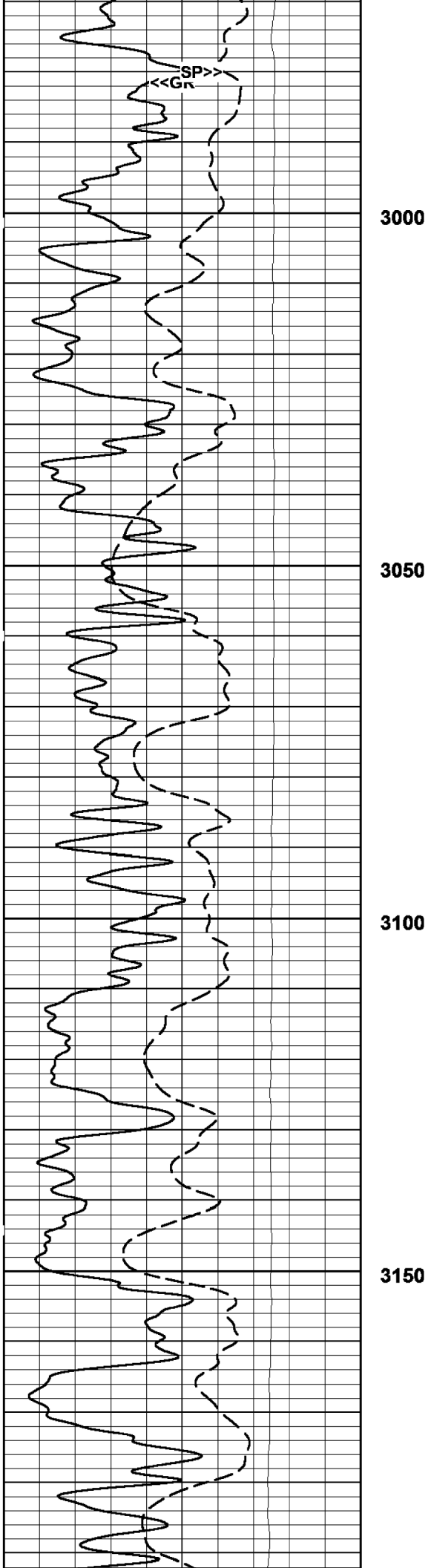


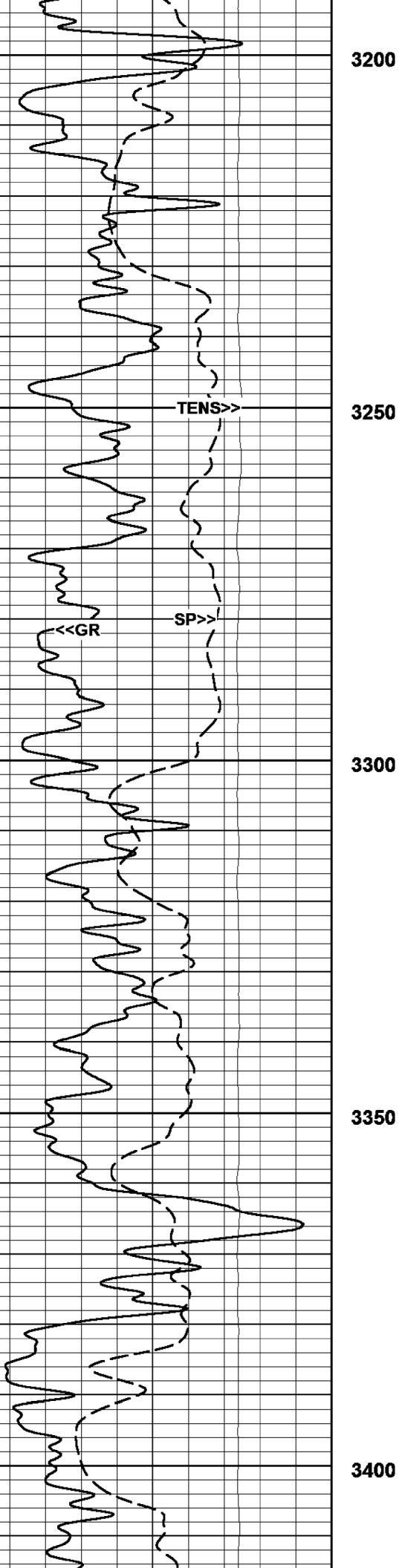












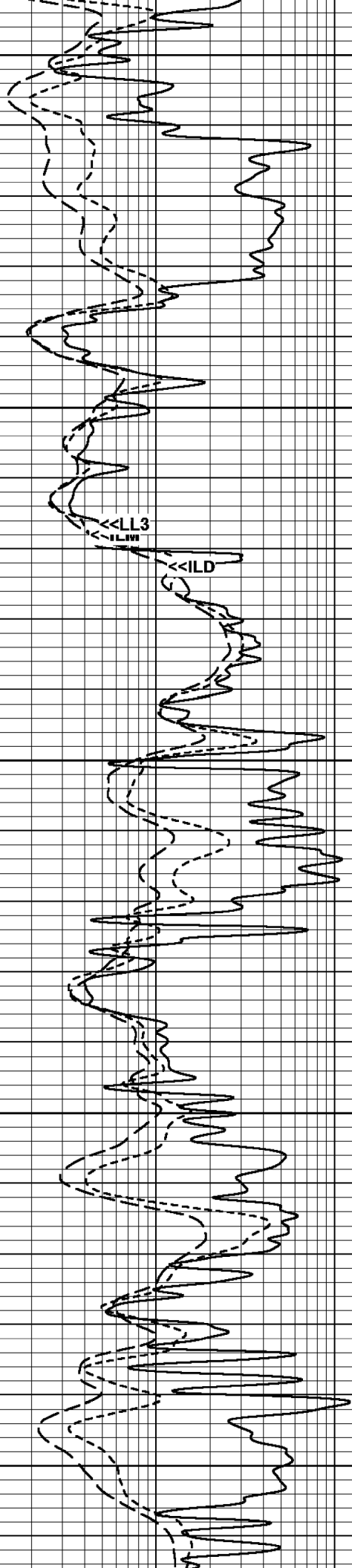
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3250

3300

3350

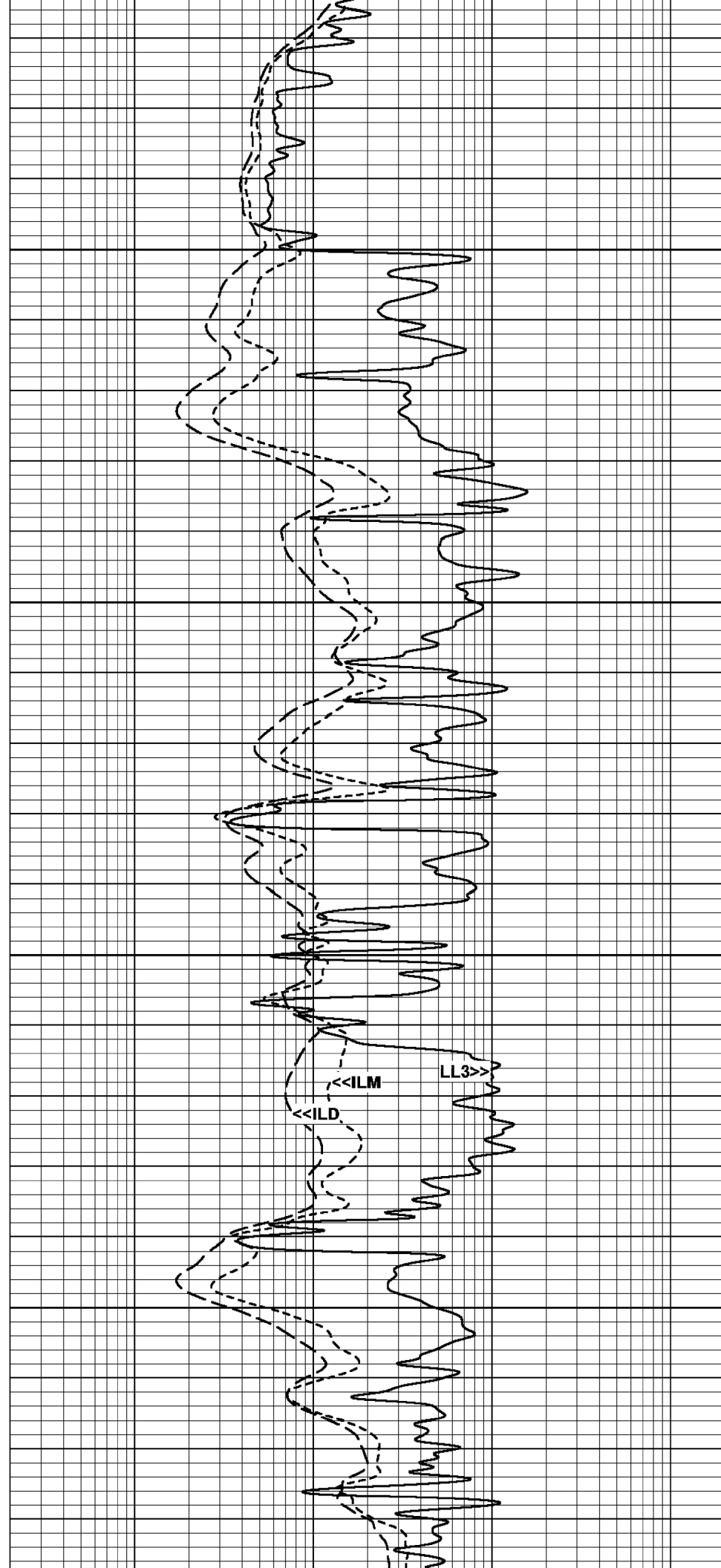
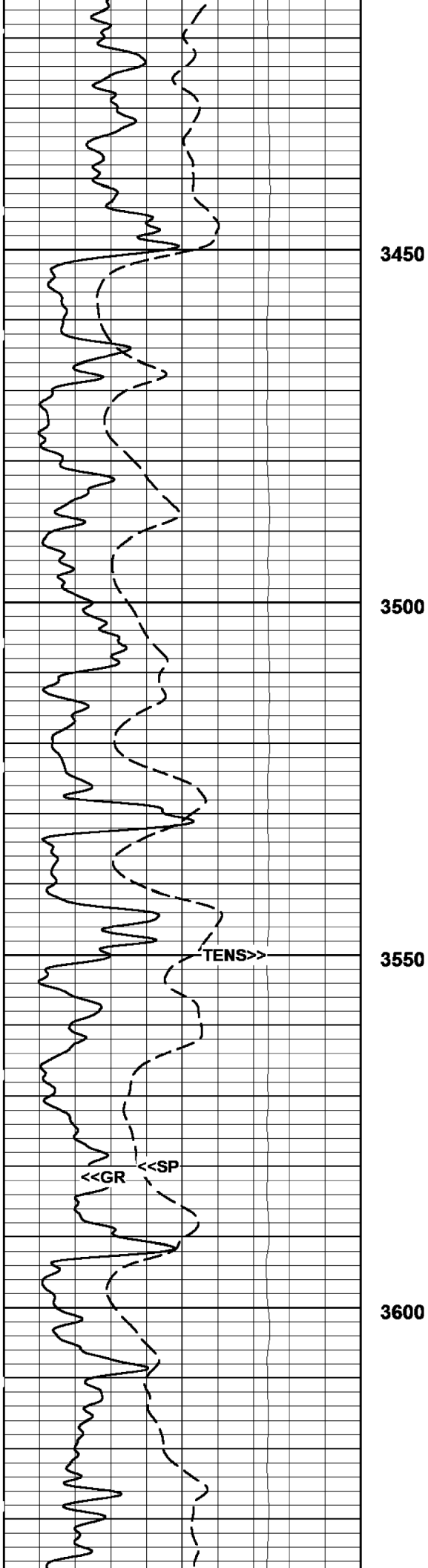
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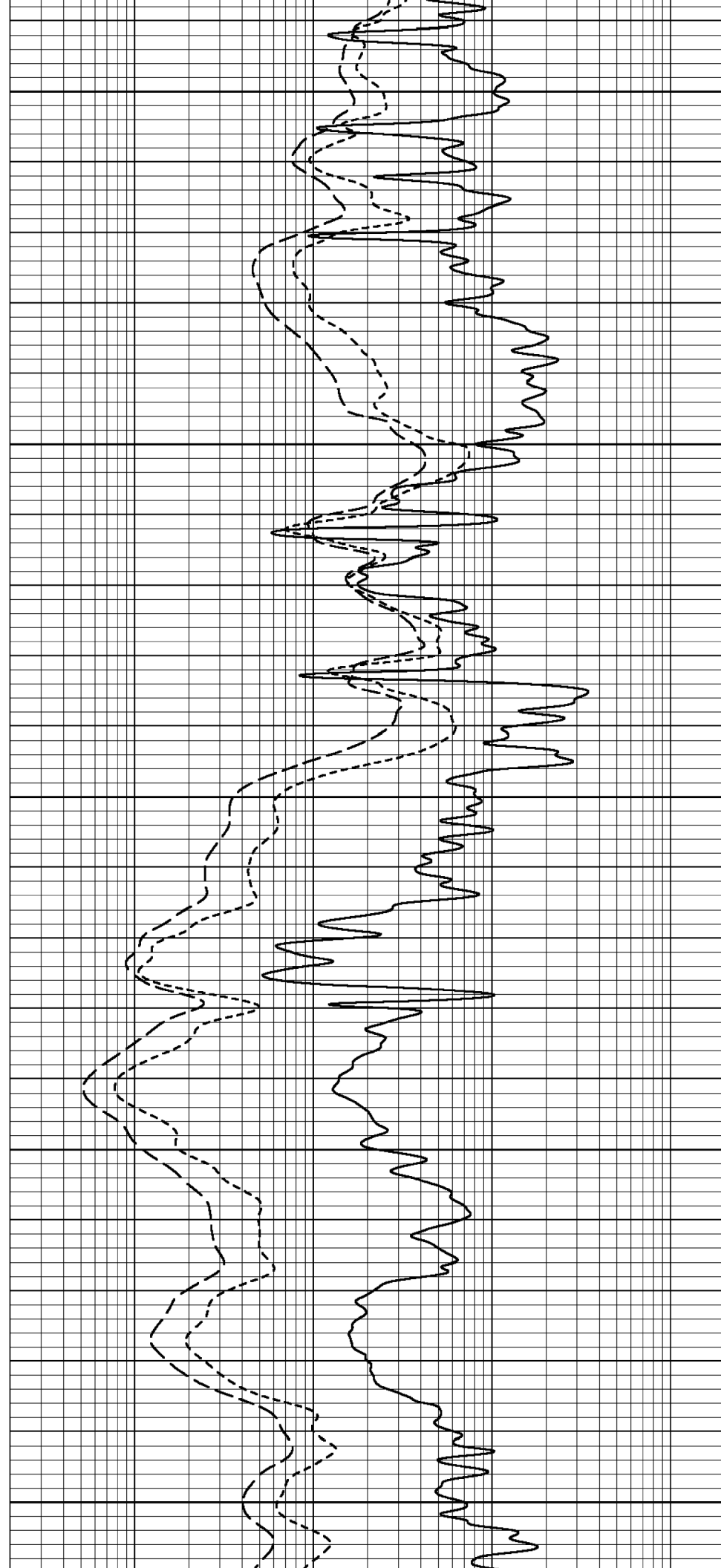
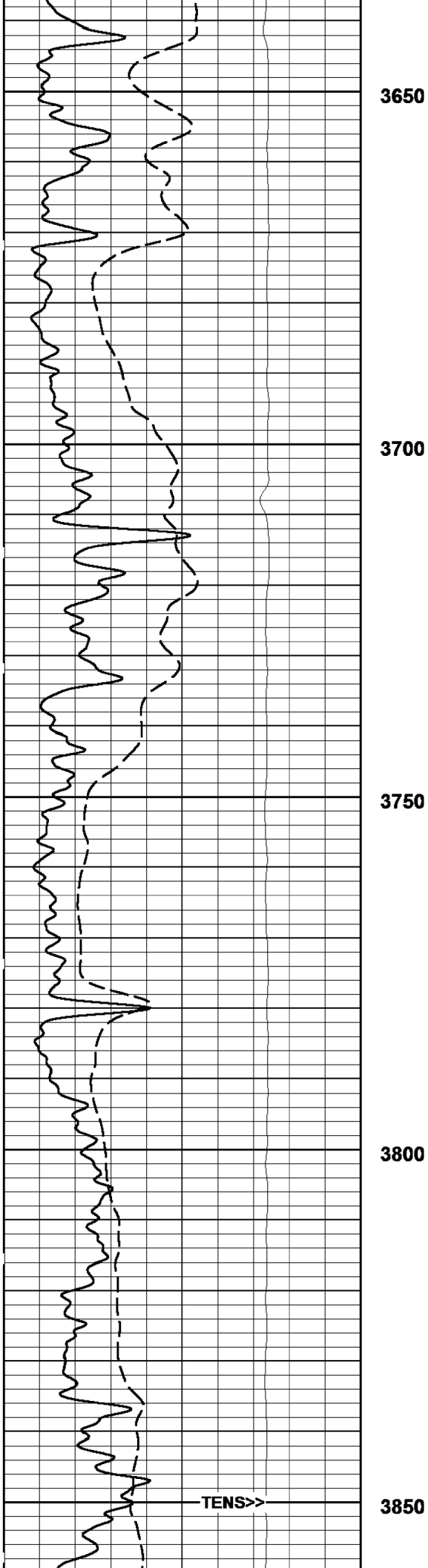


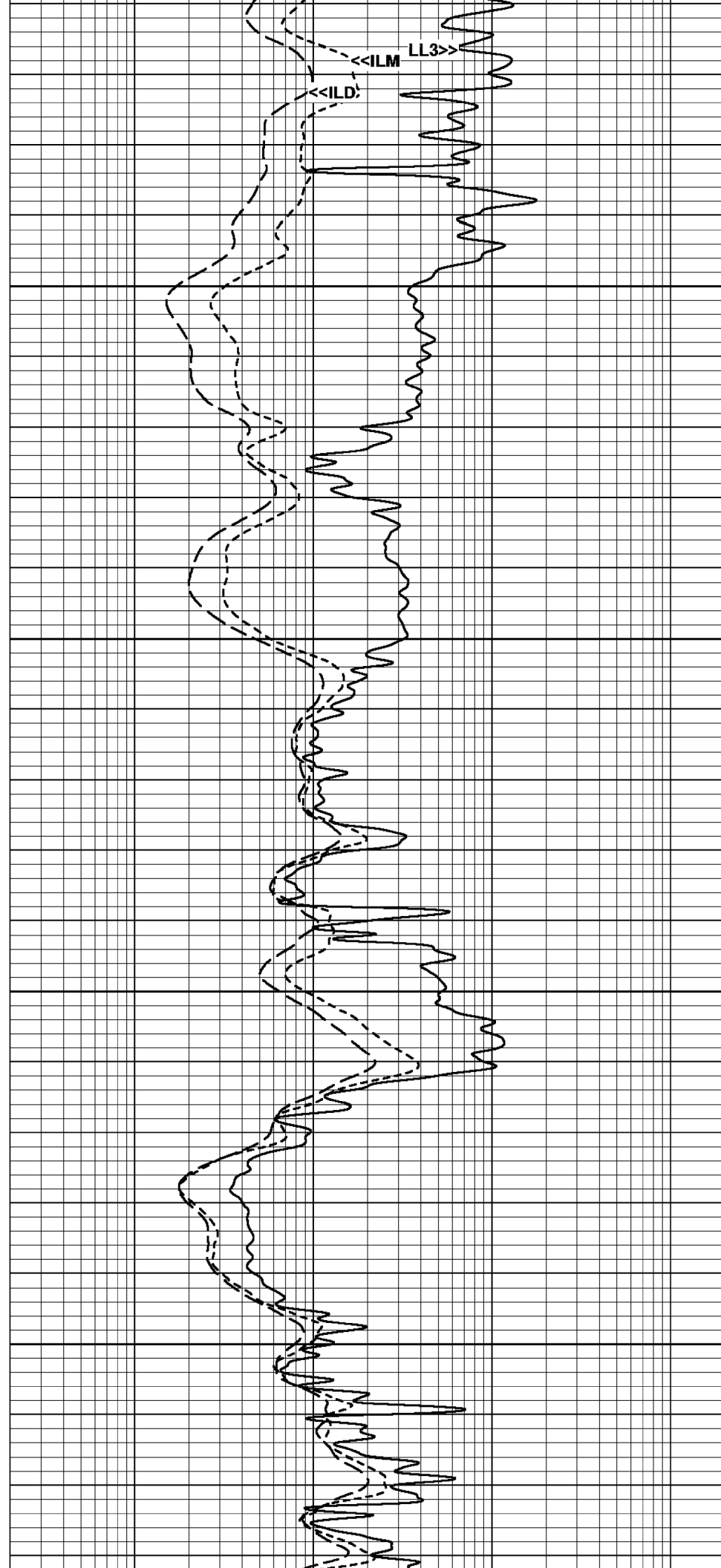
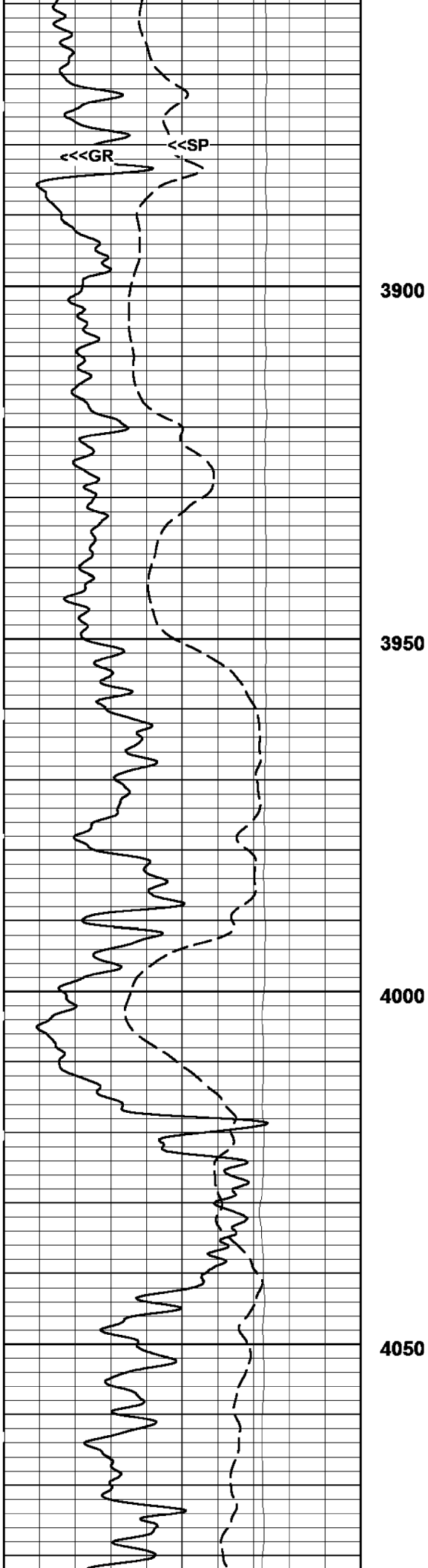
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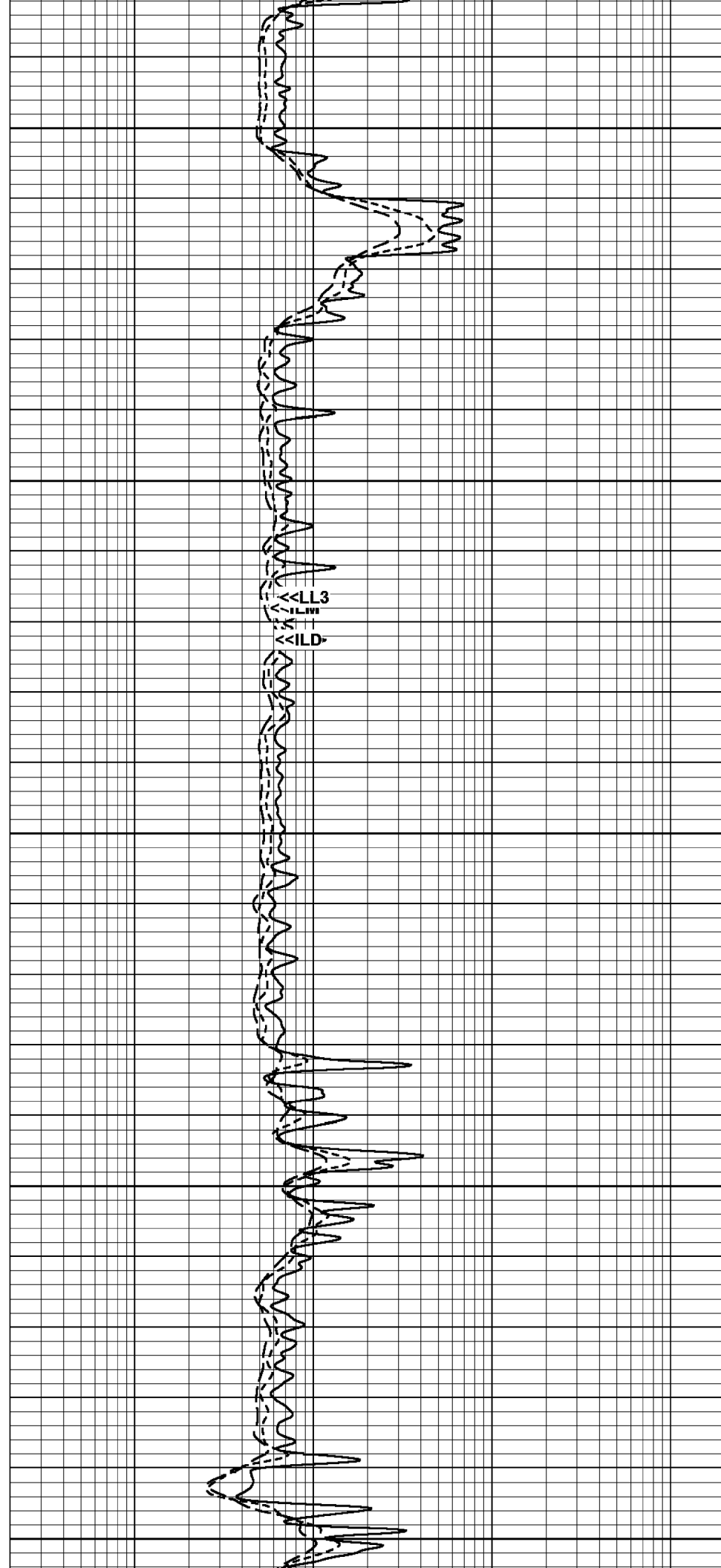
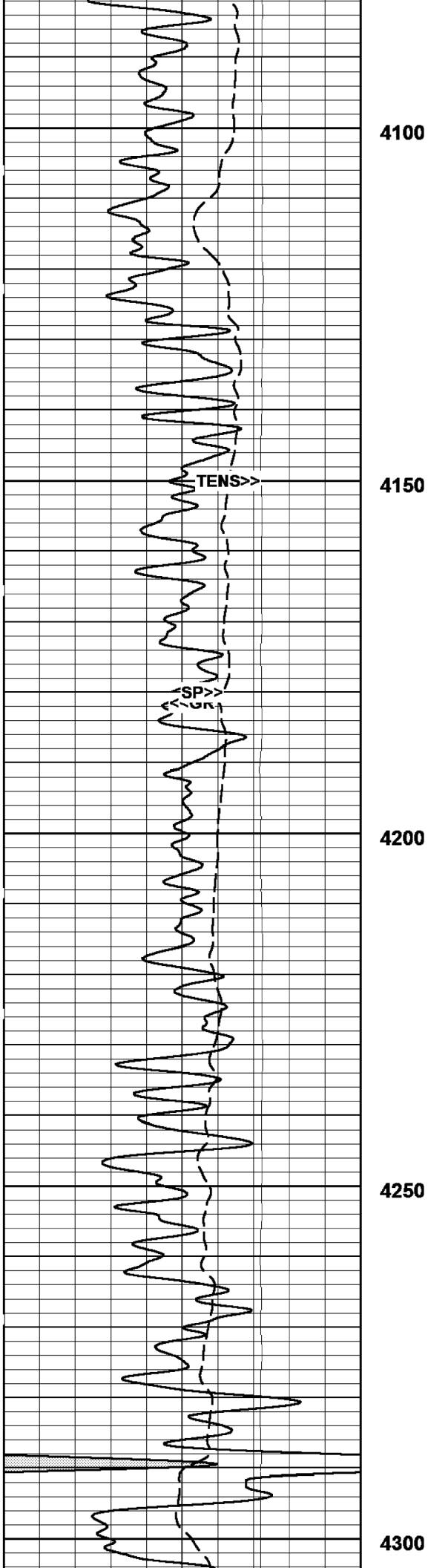
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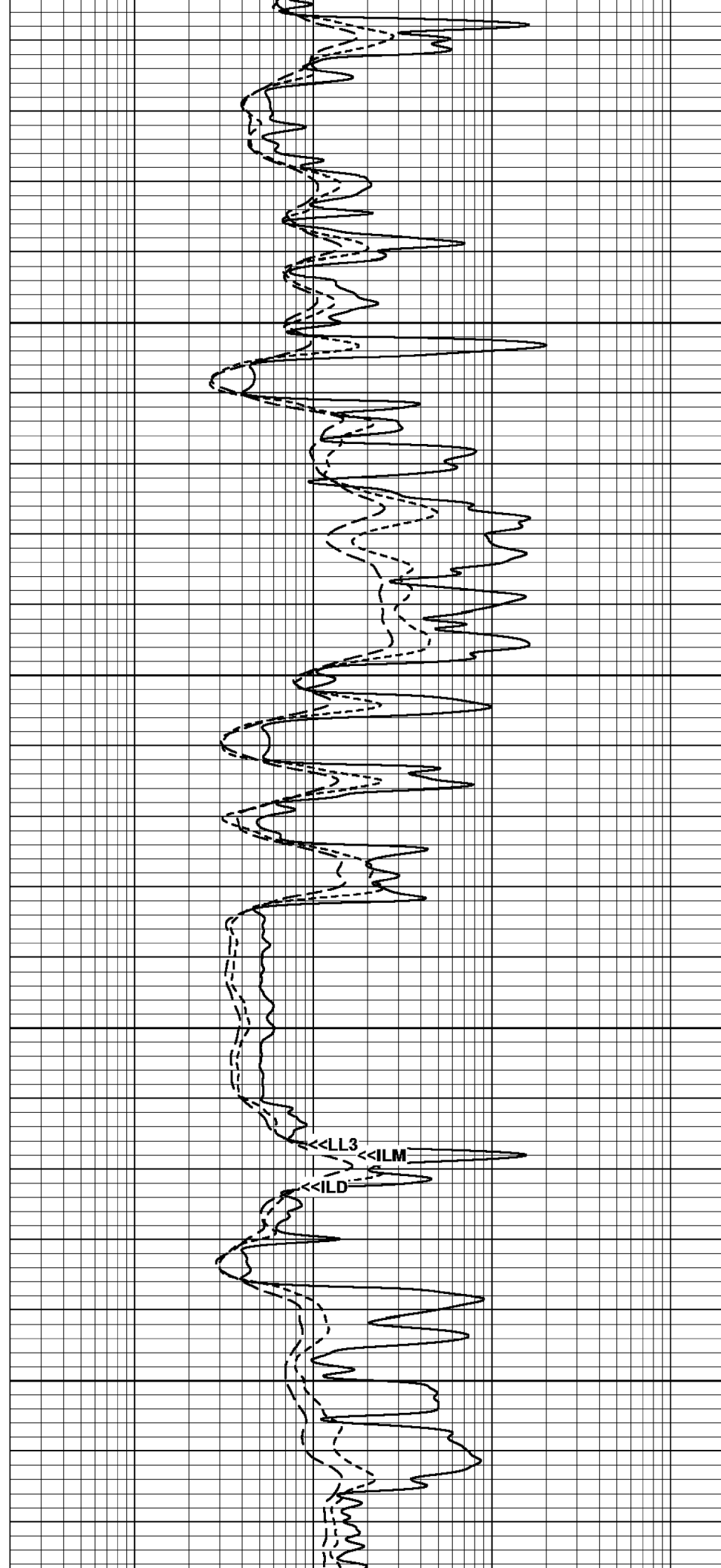
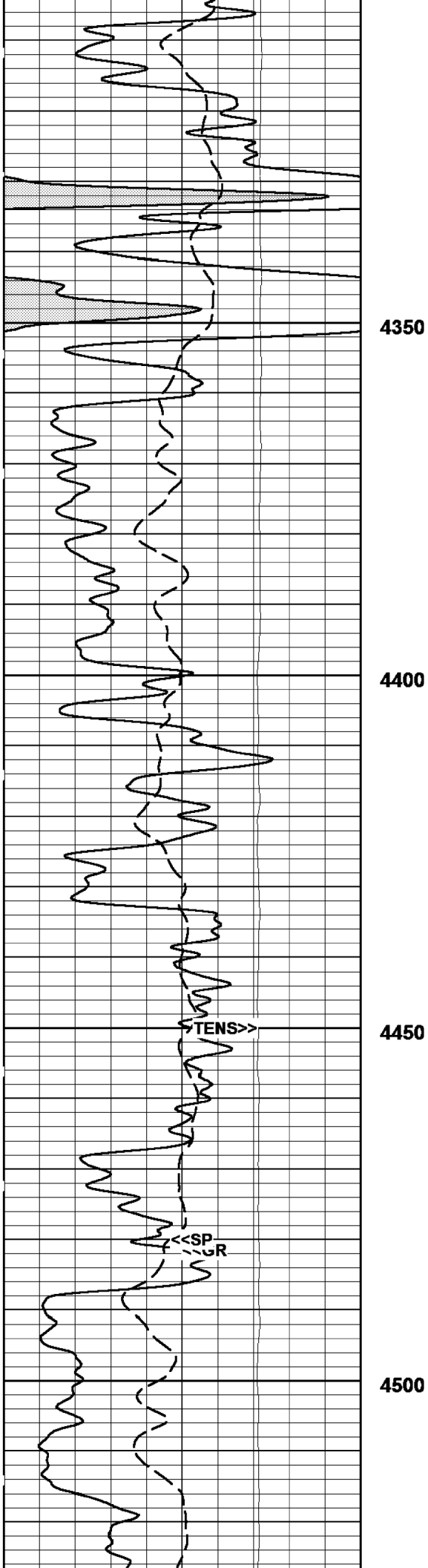
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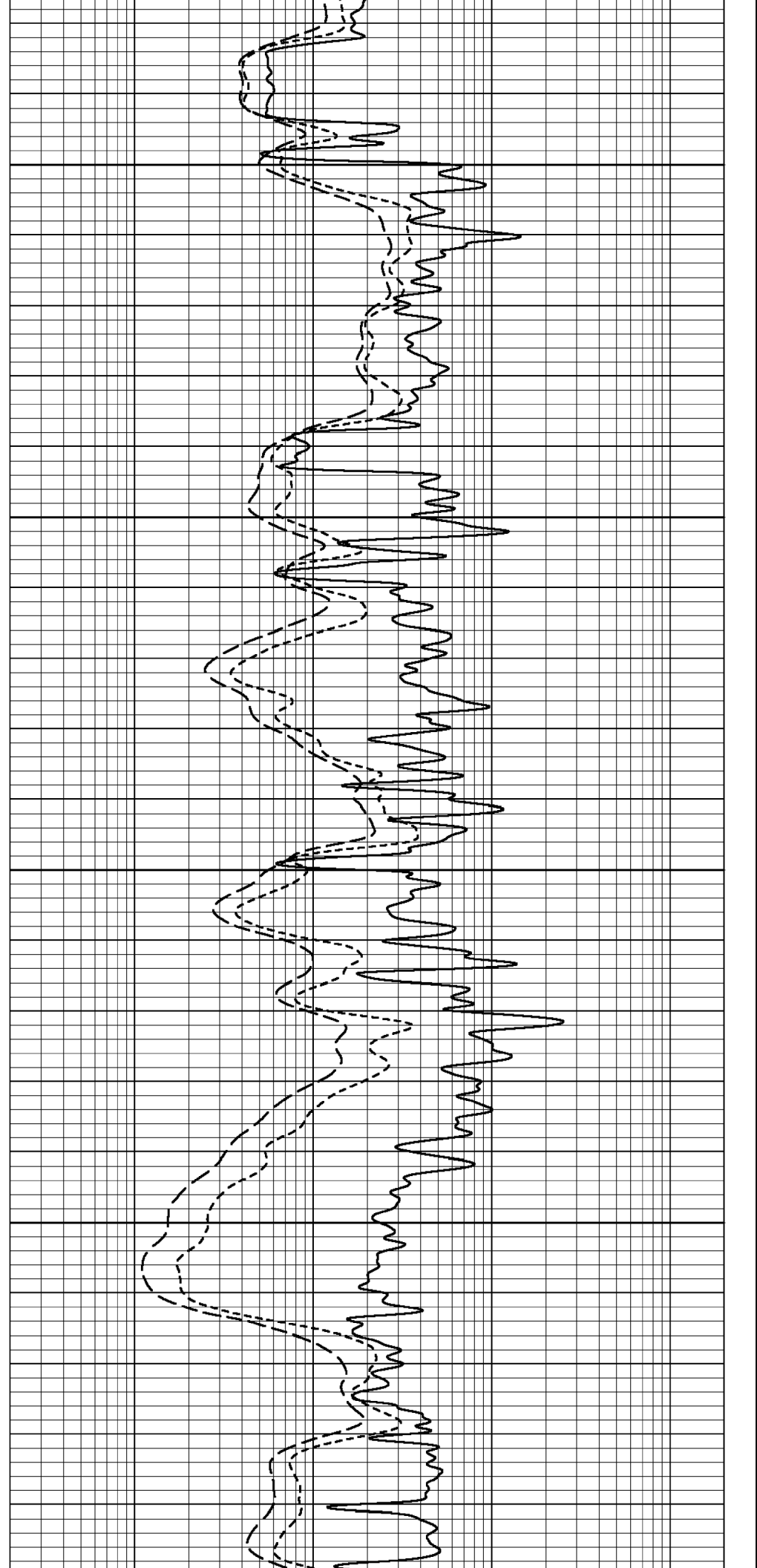
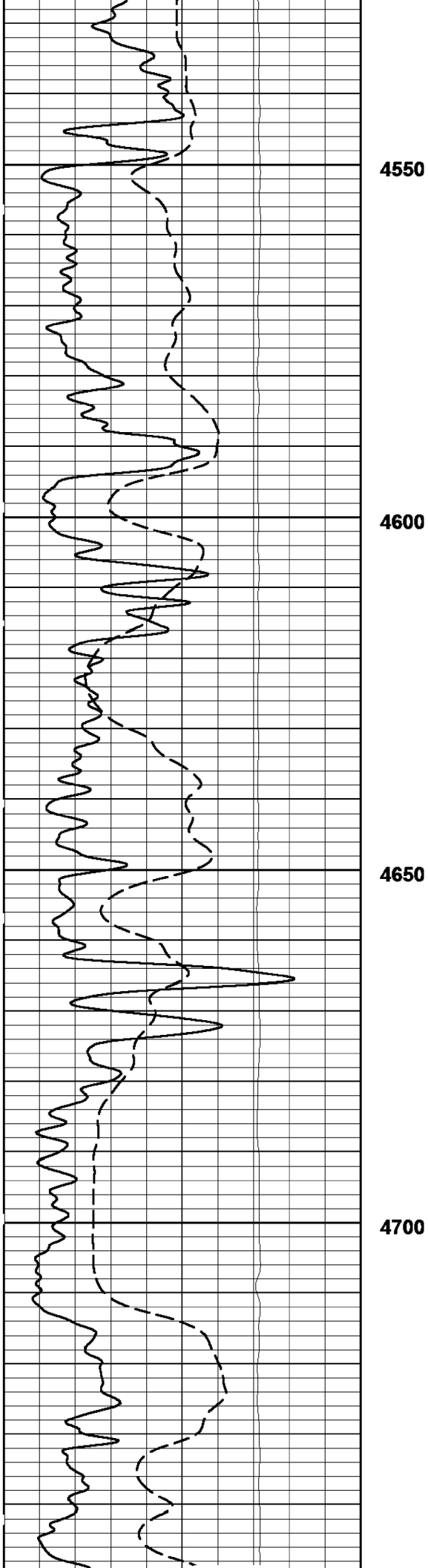


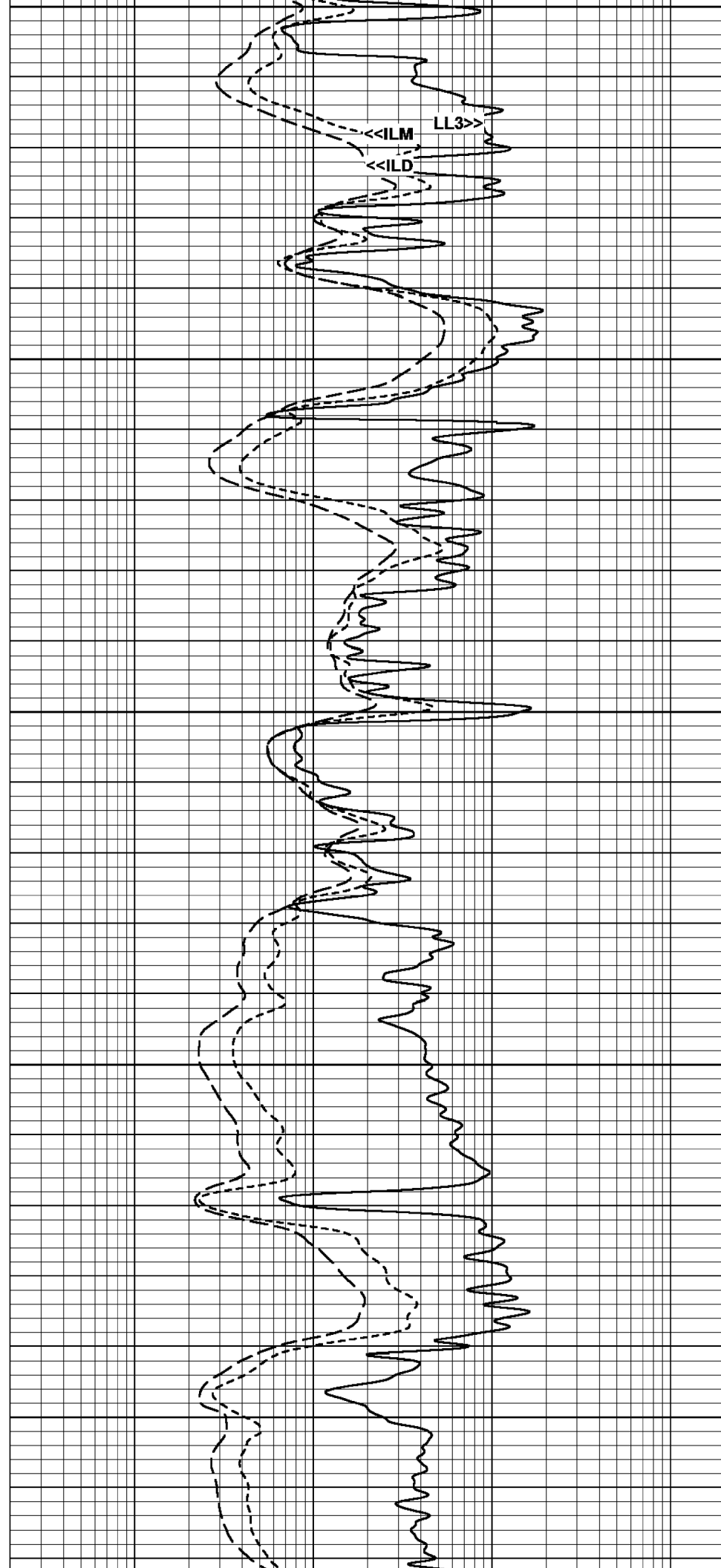
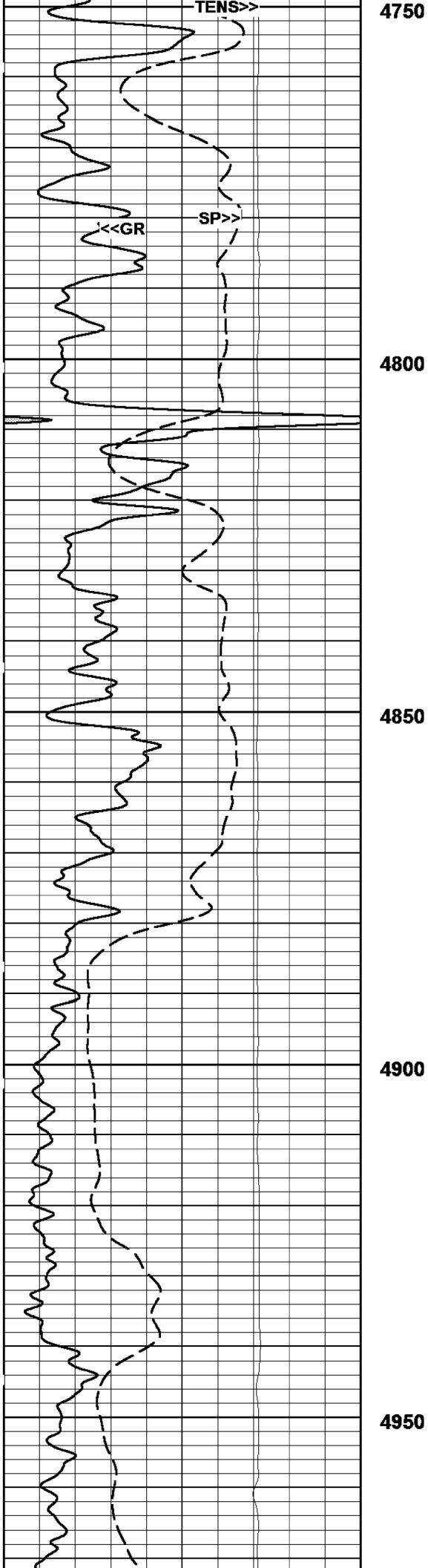


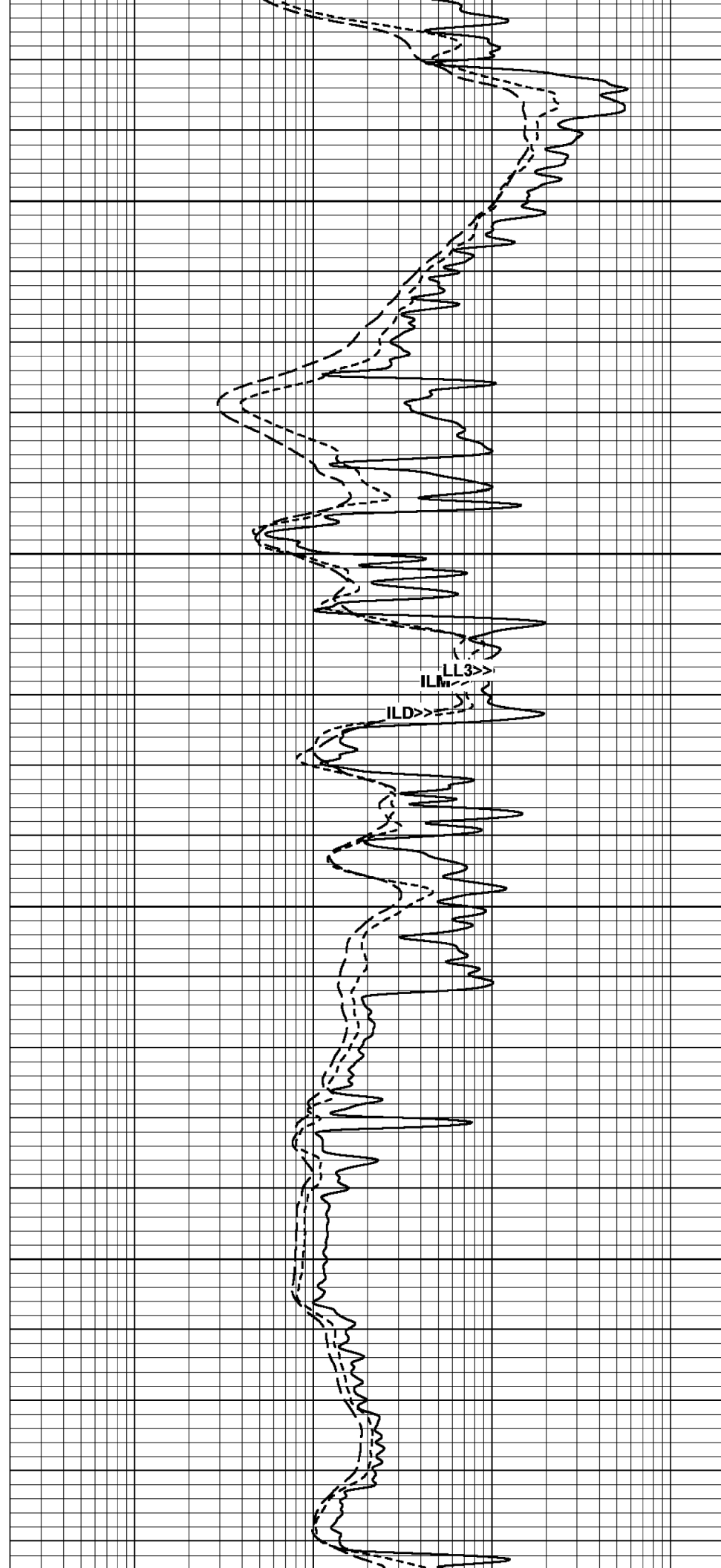
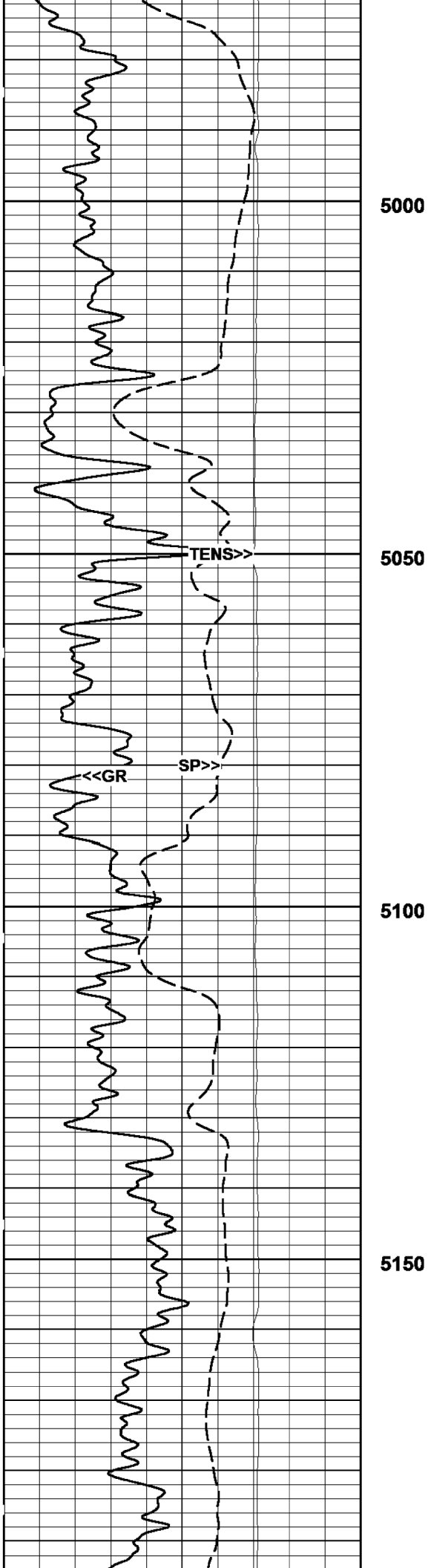


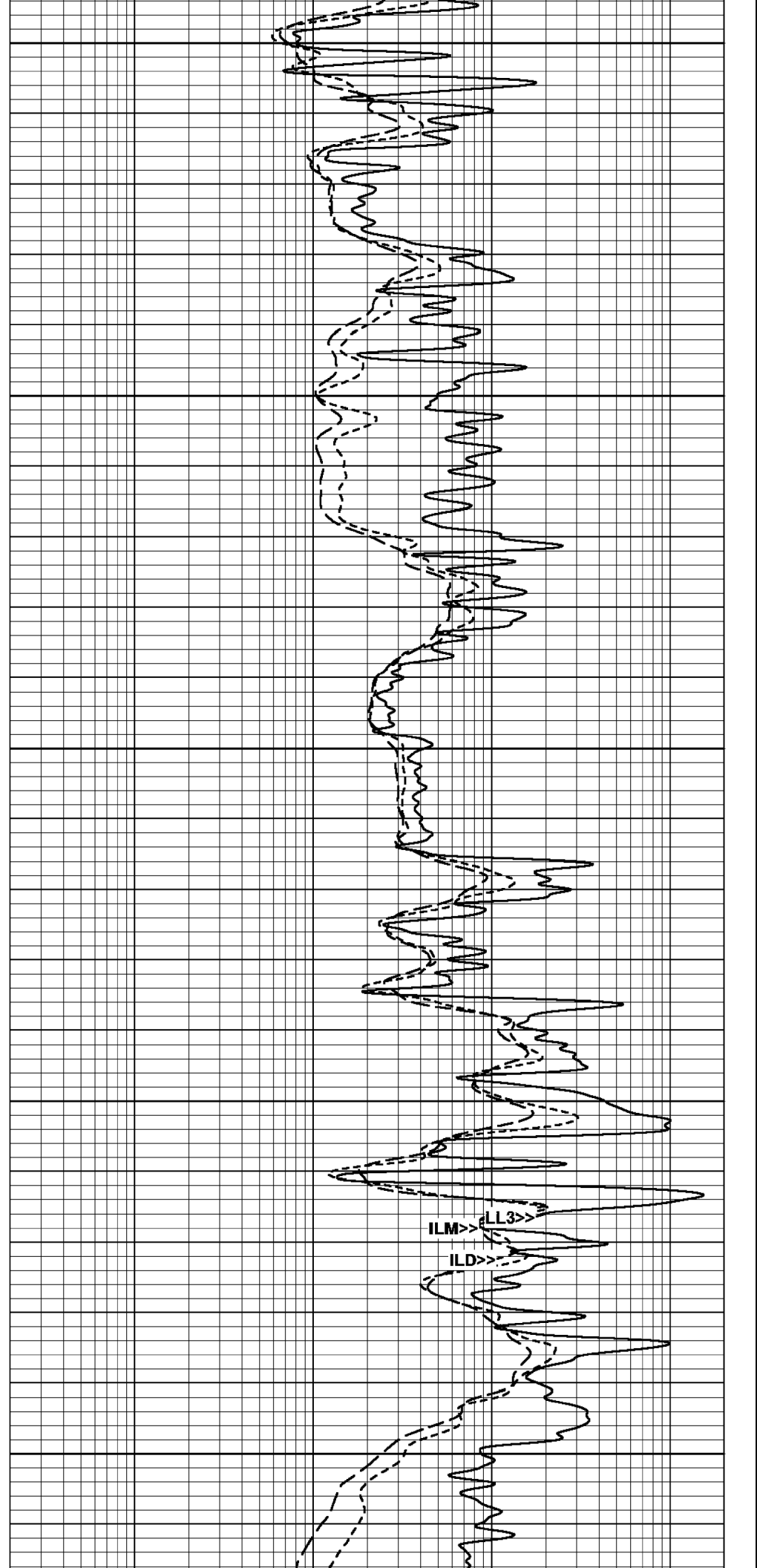
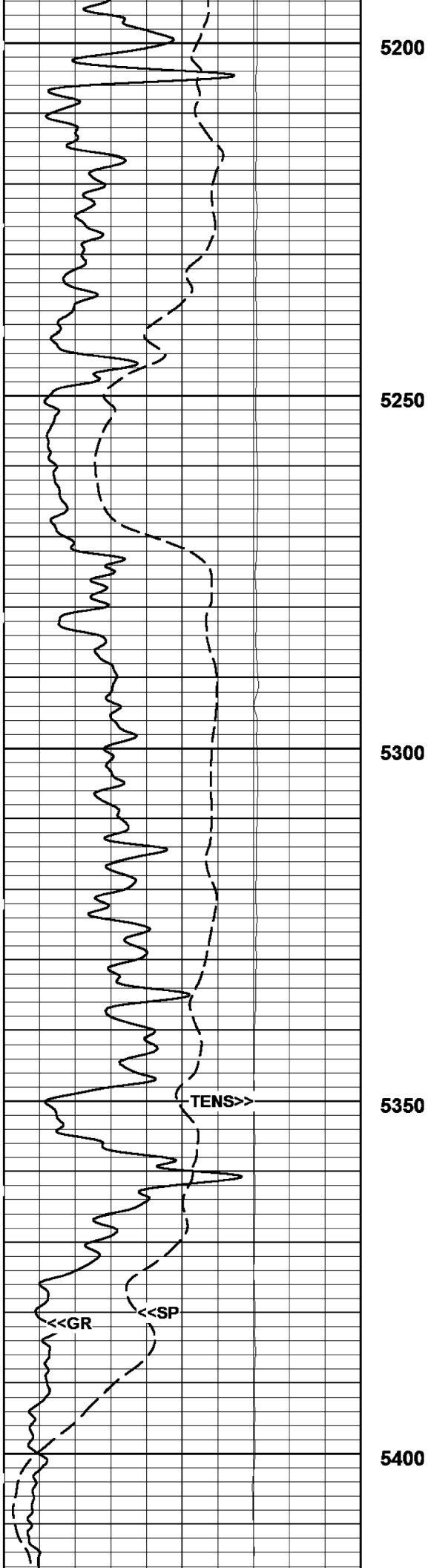


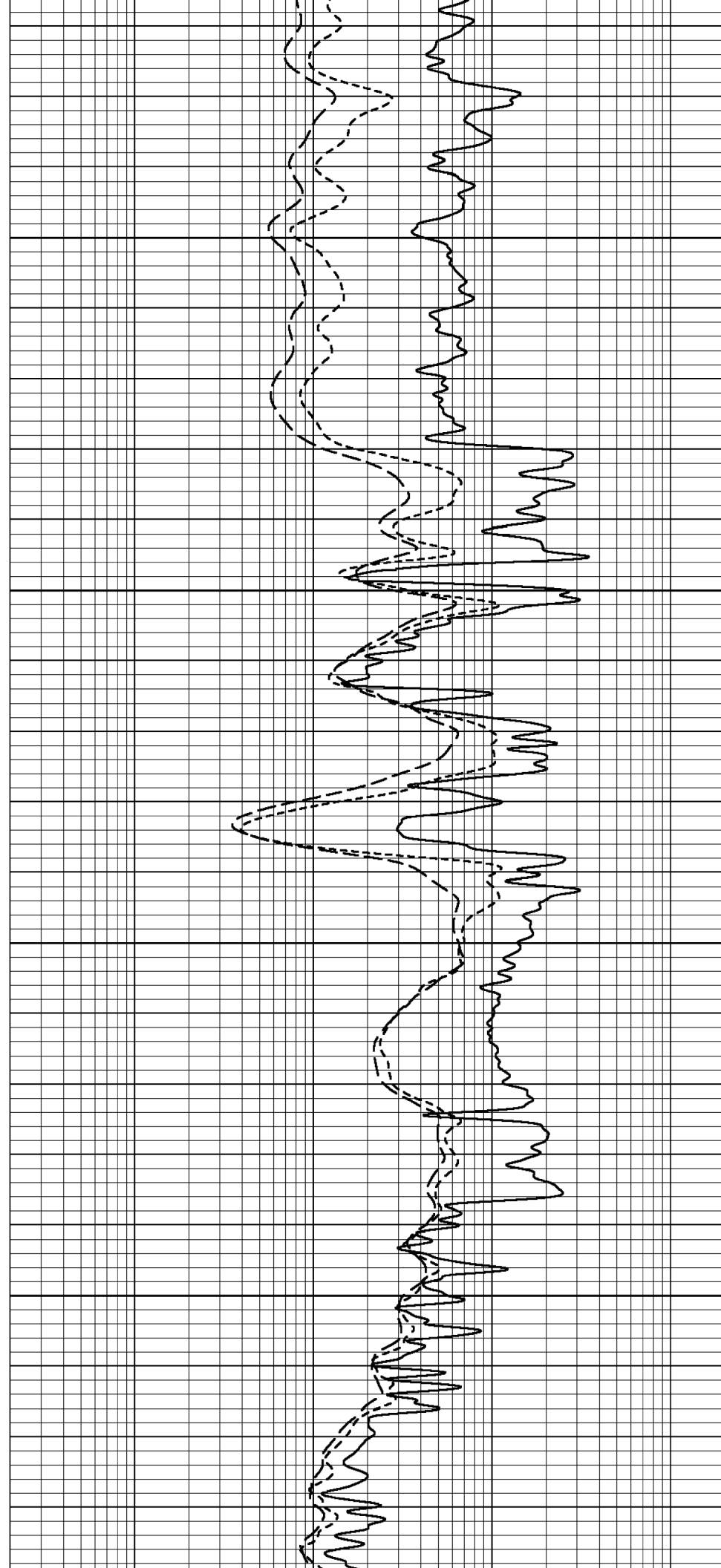
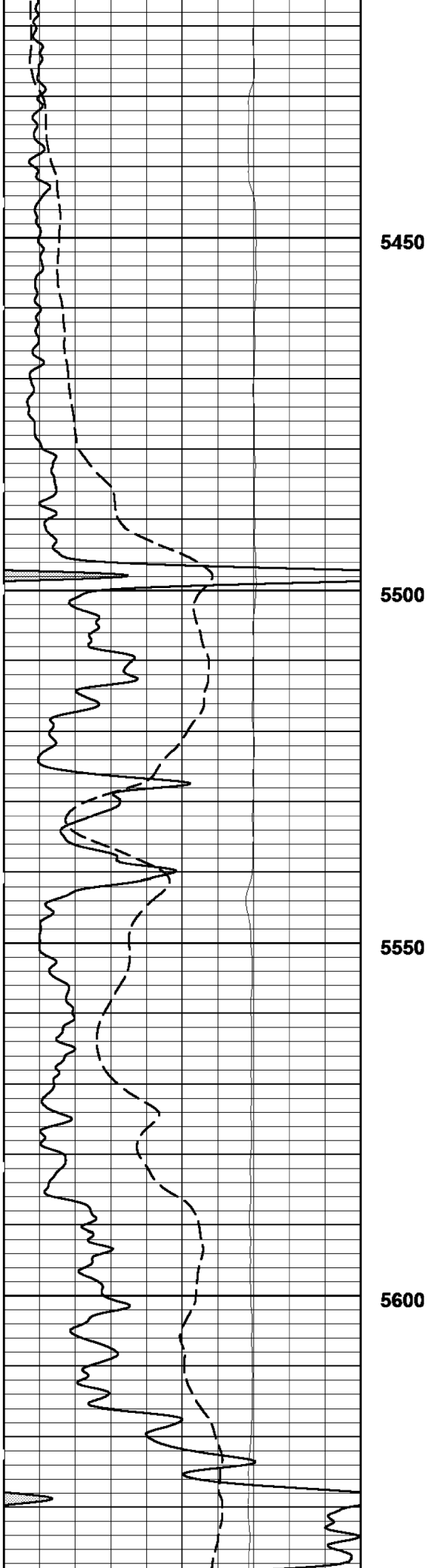


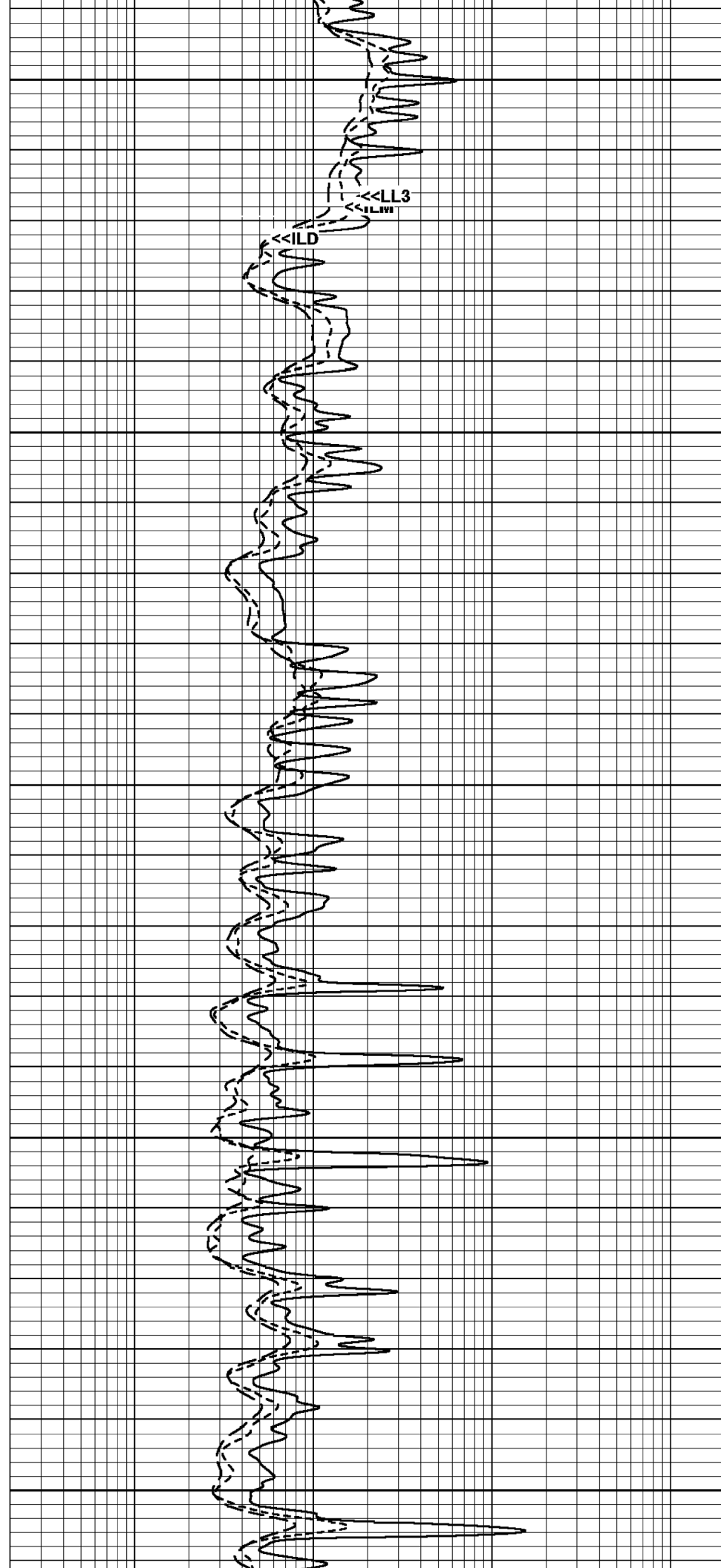
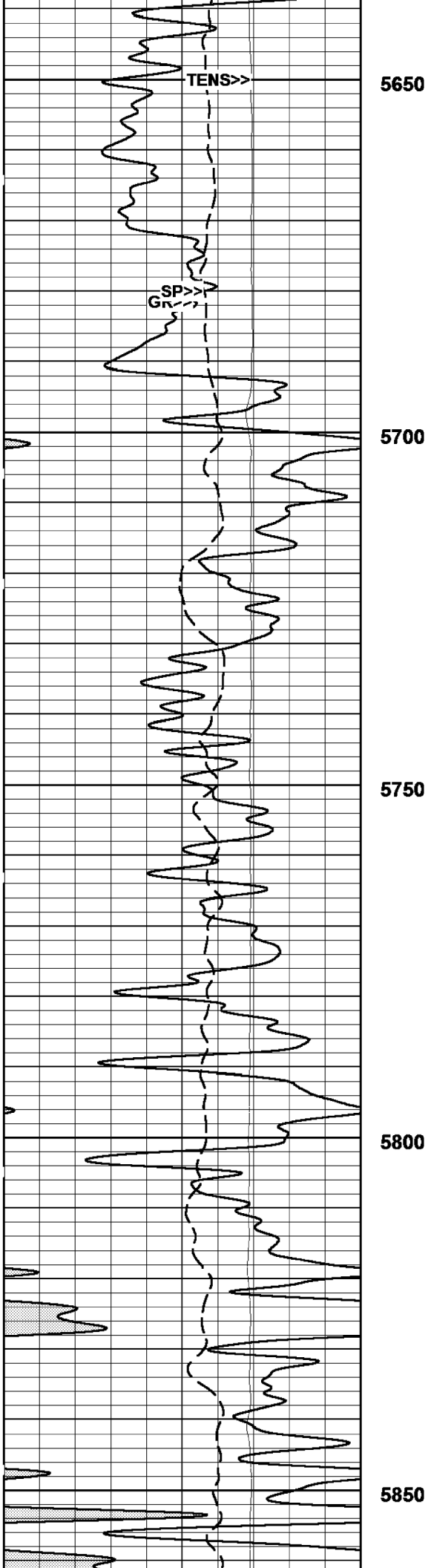


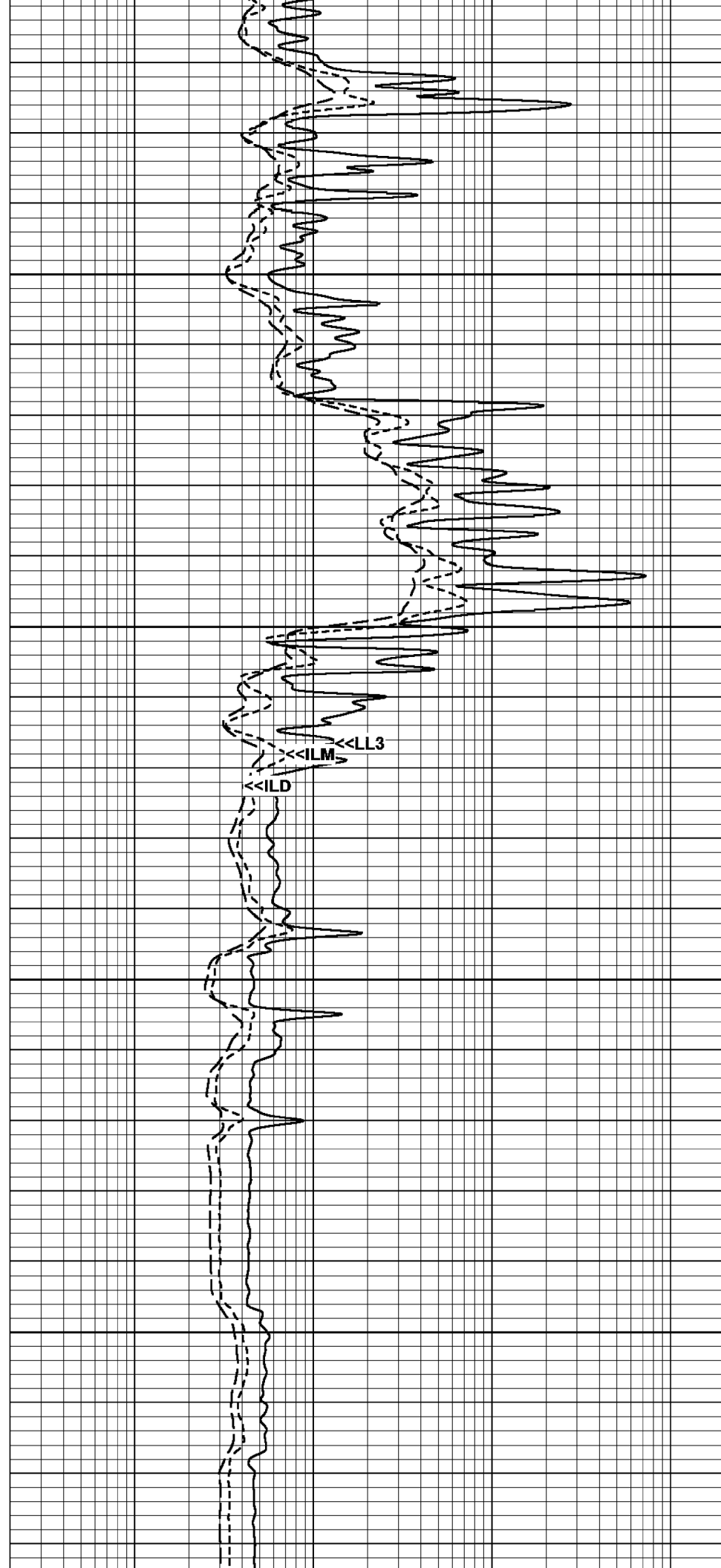
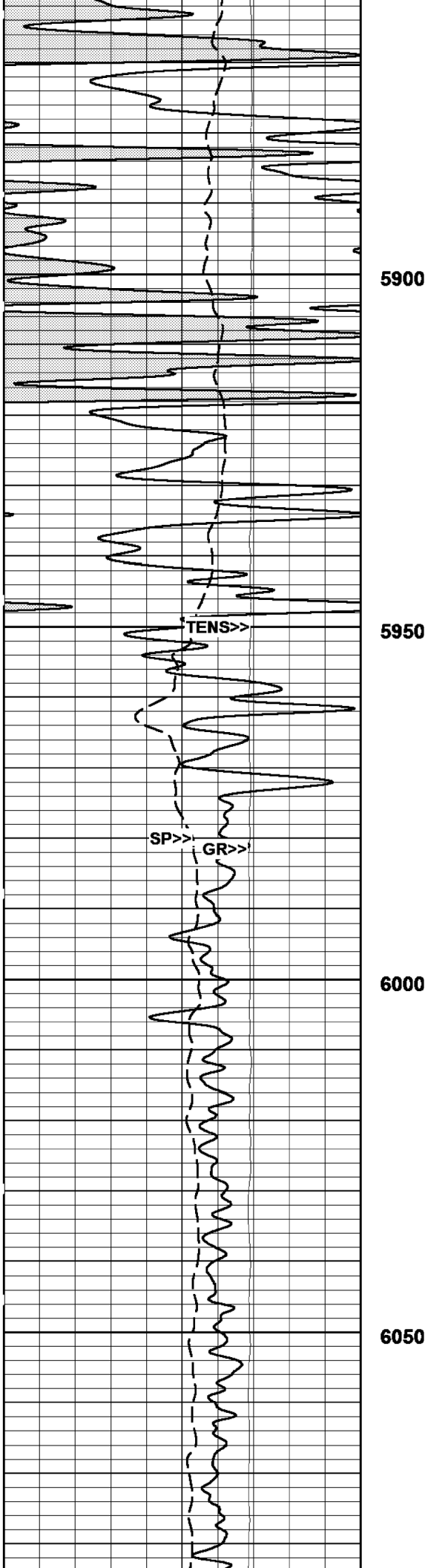












6100

6150

6200

6250

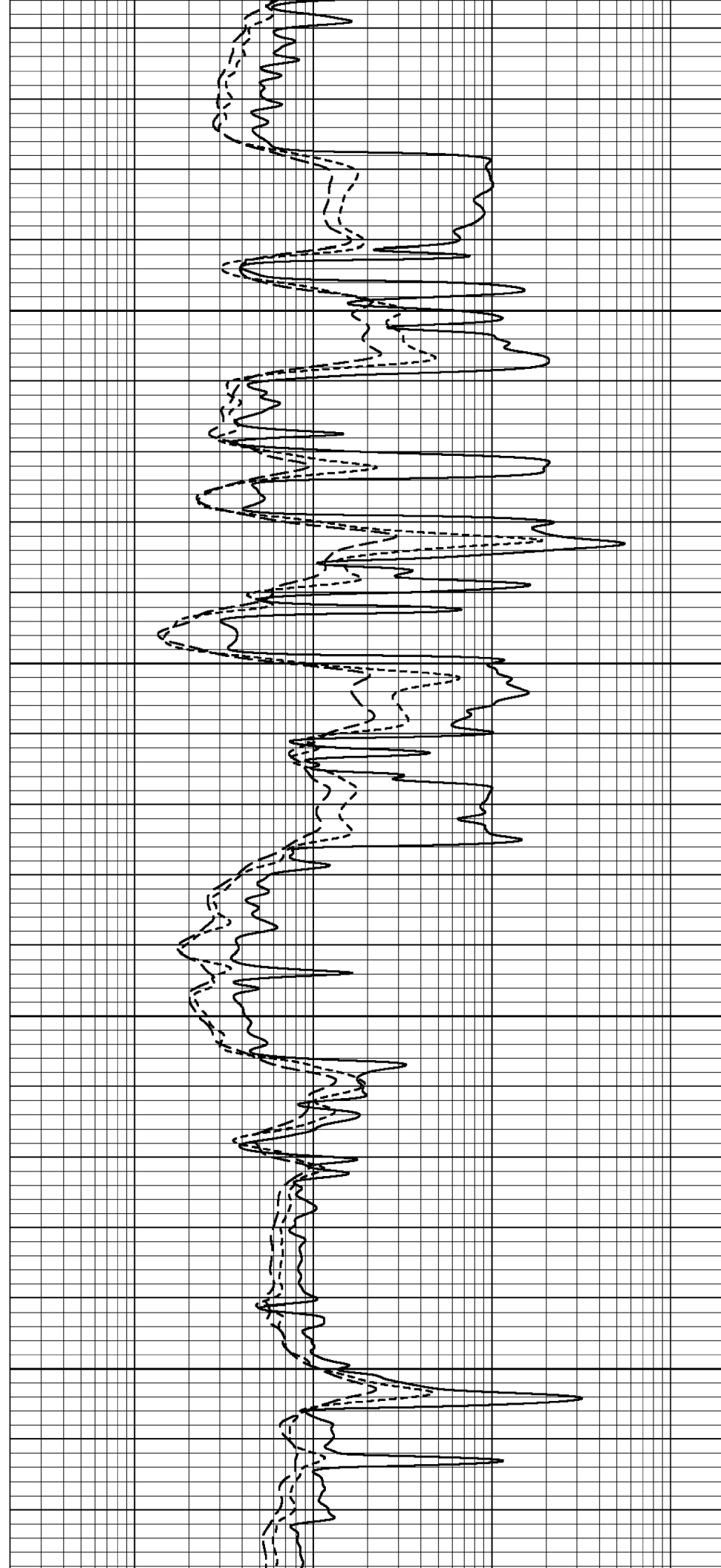
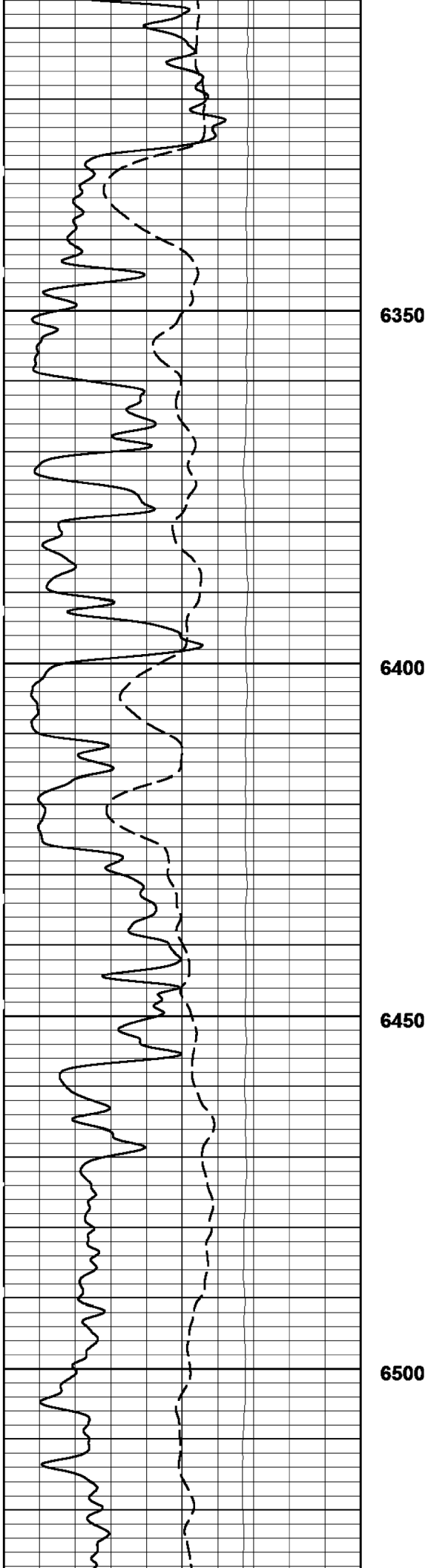
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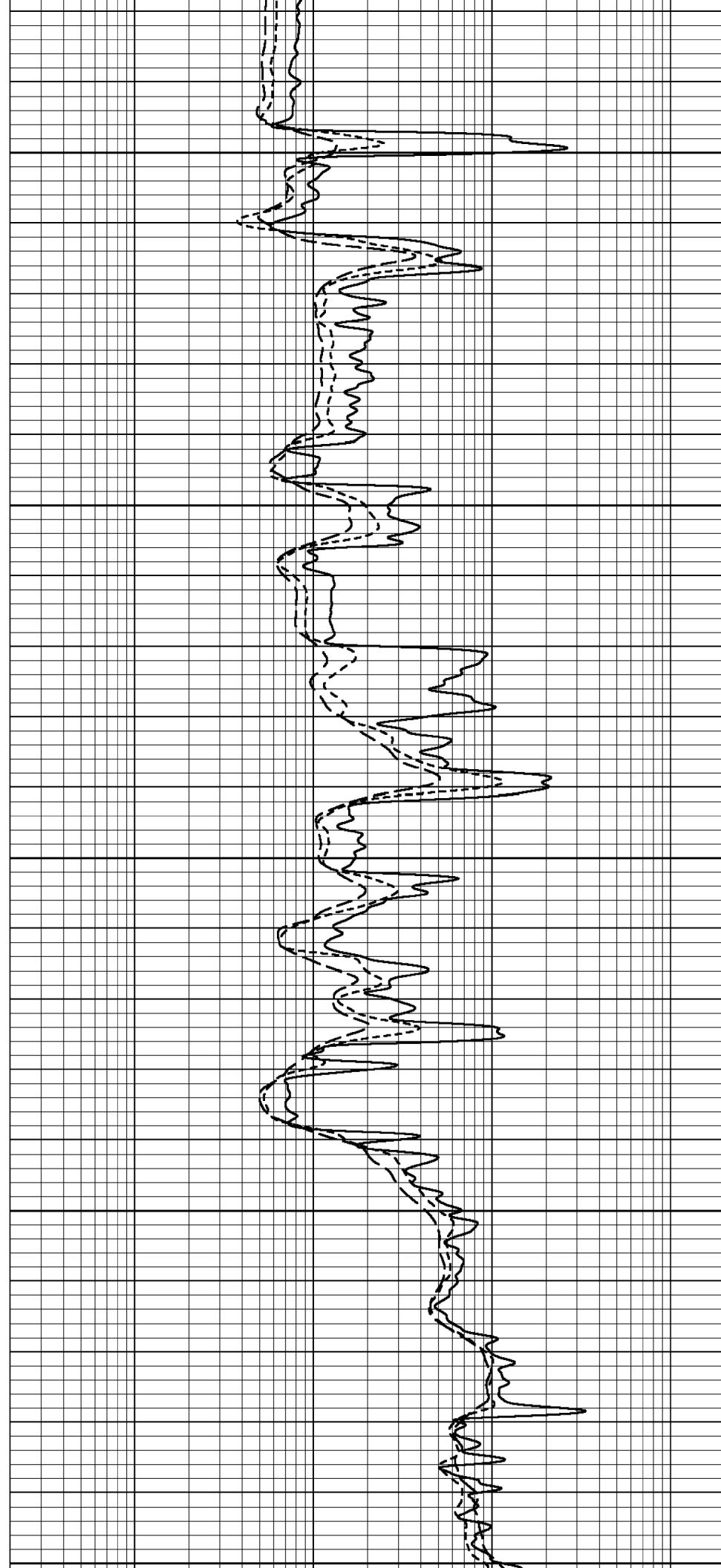
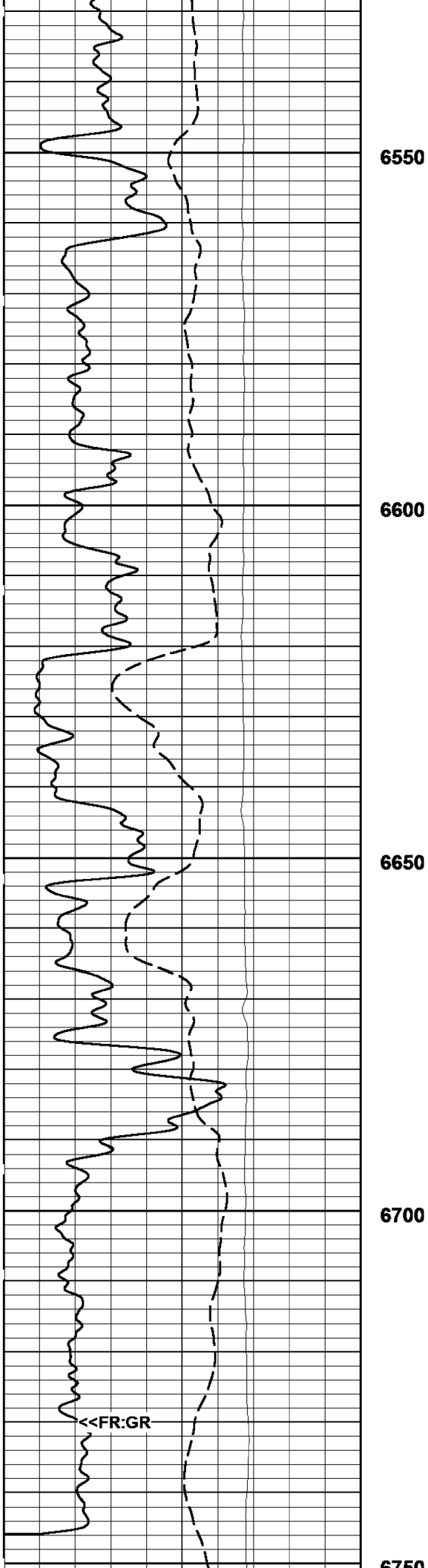
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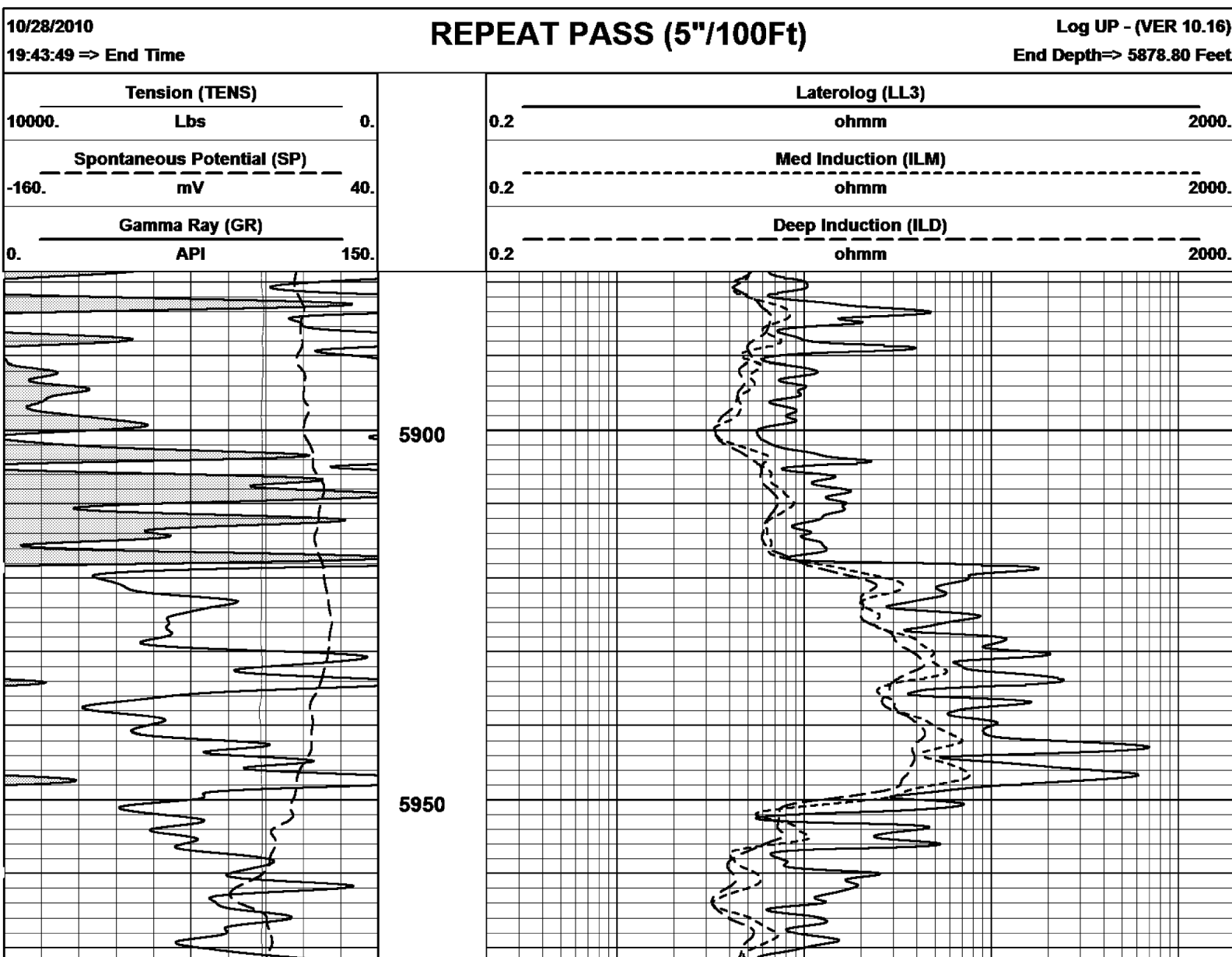
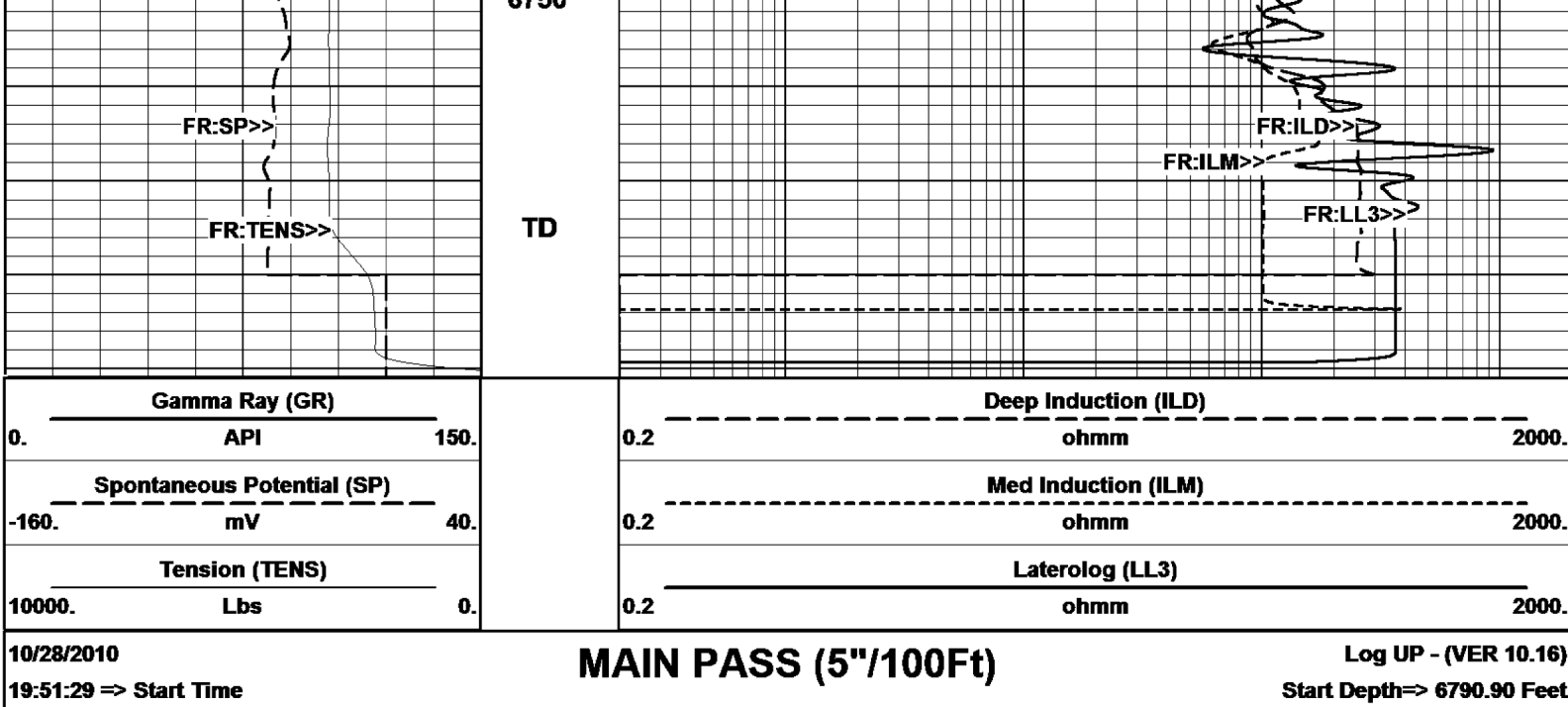
SP>>
GRV>>

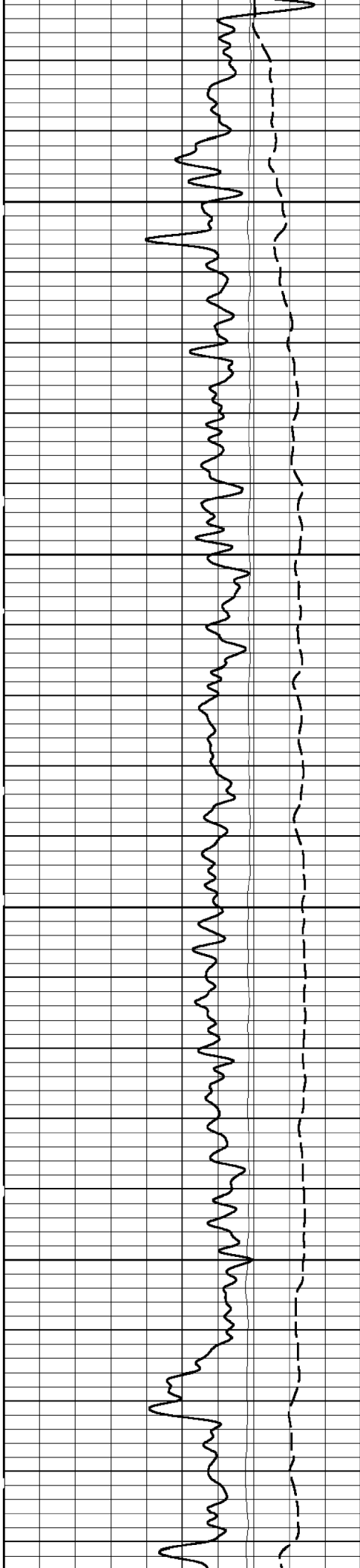
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<<IL_W
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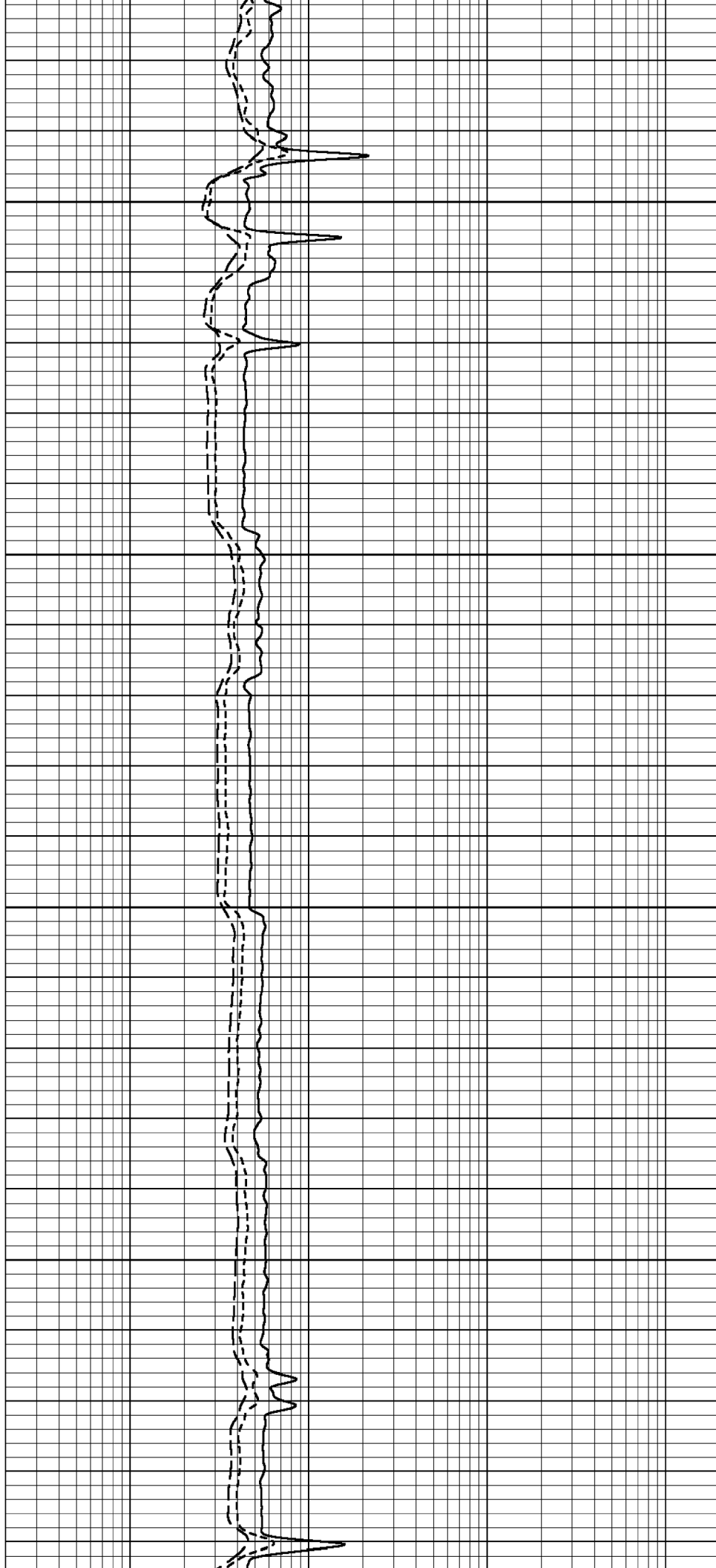


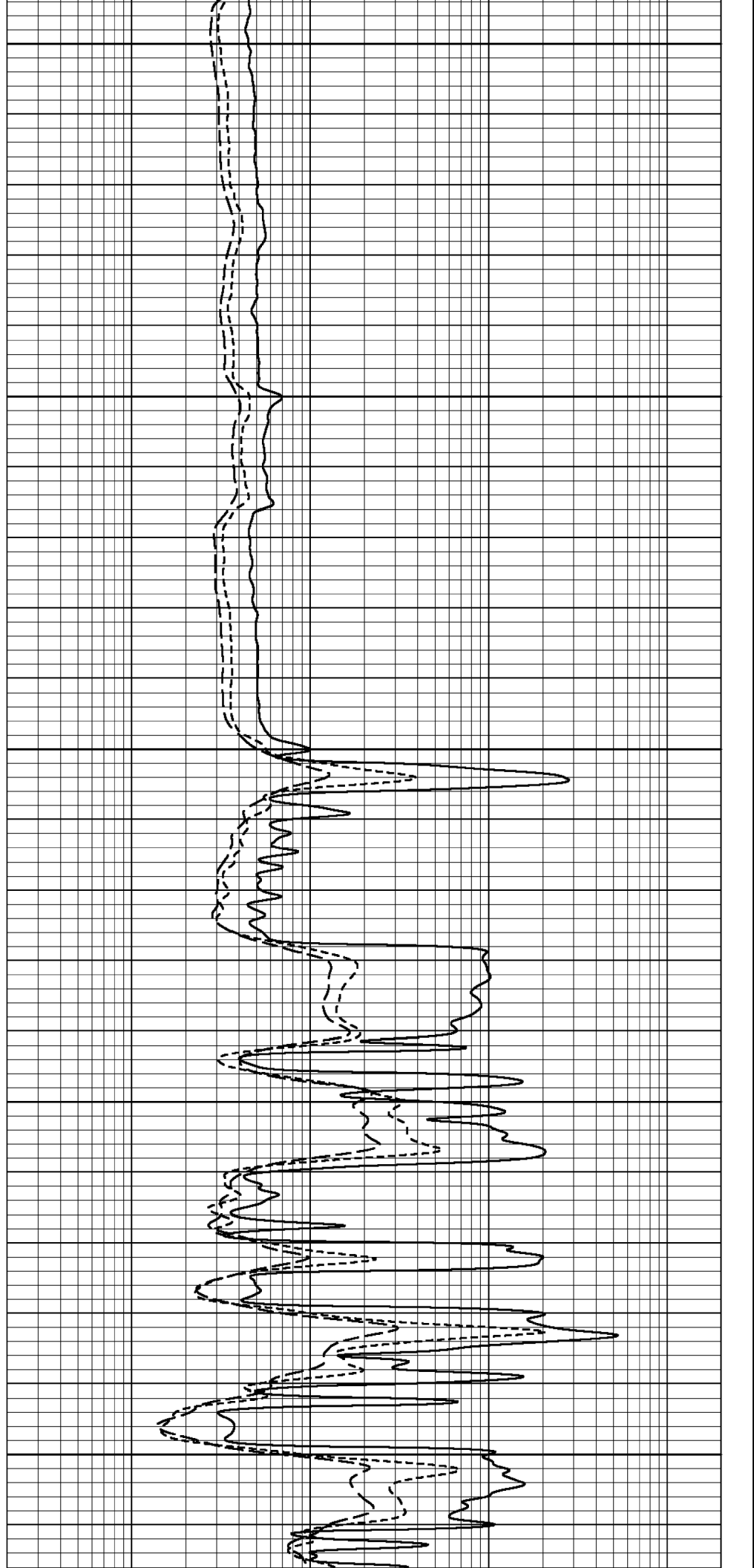
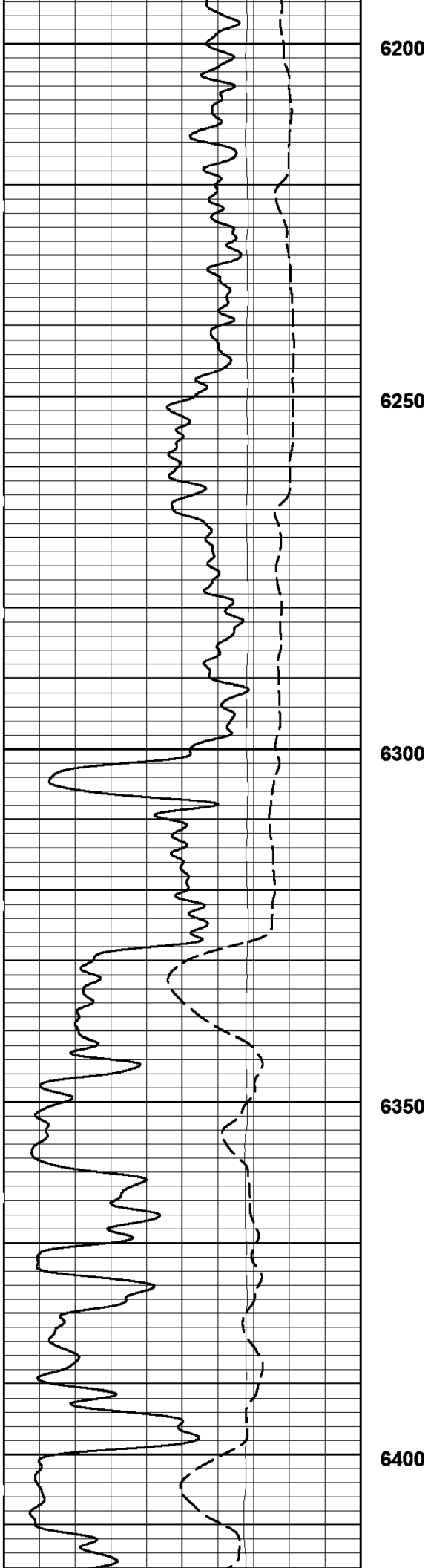
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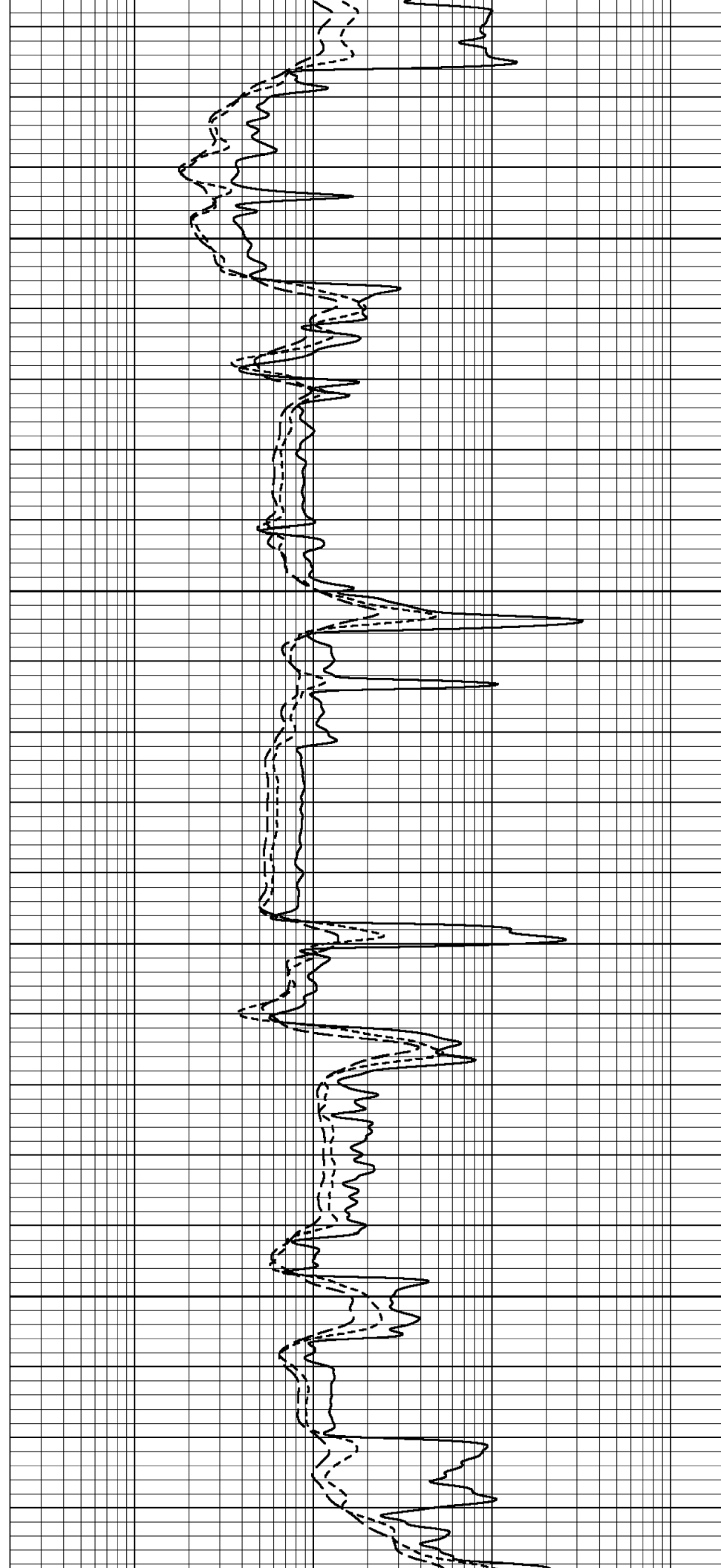
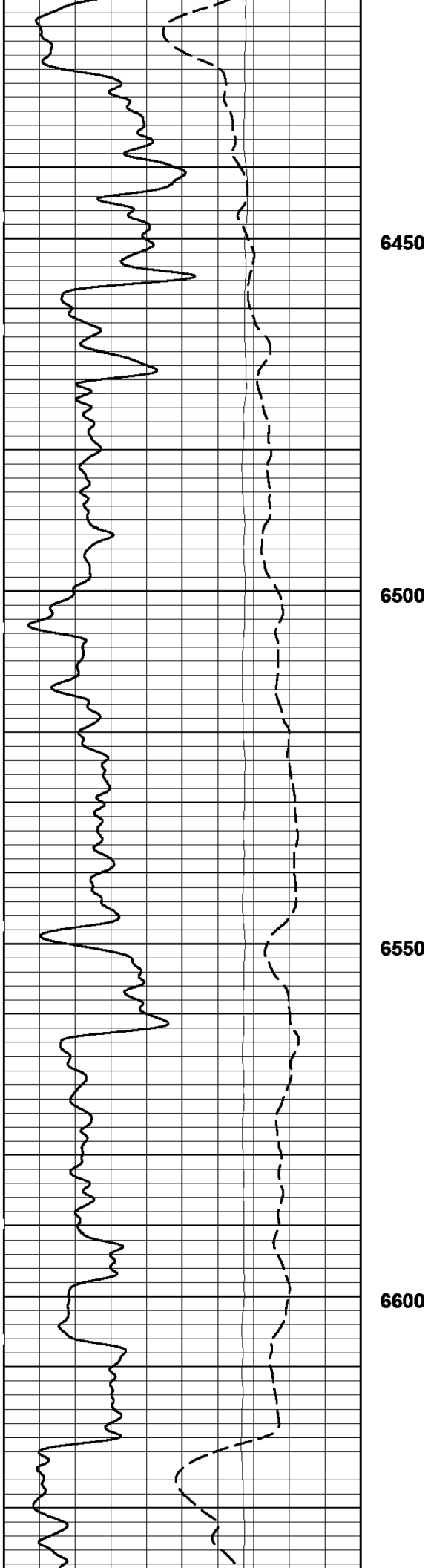
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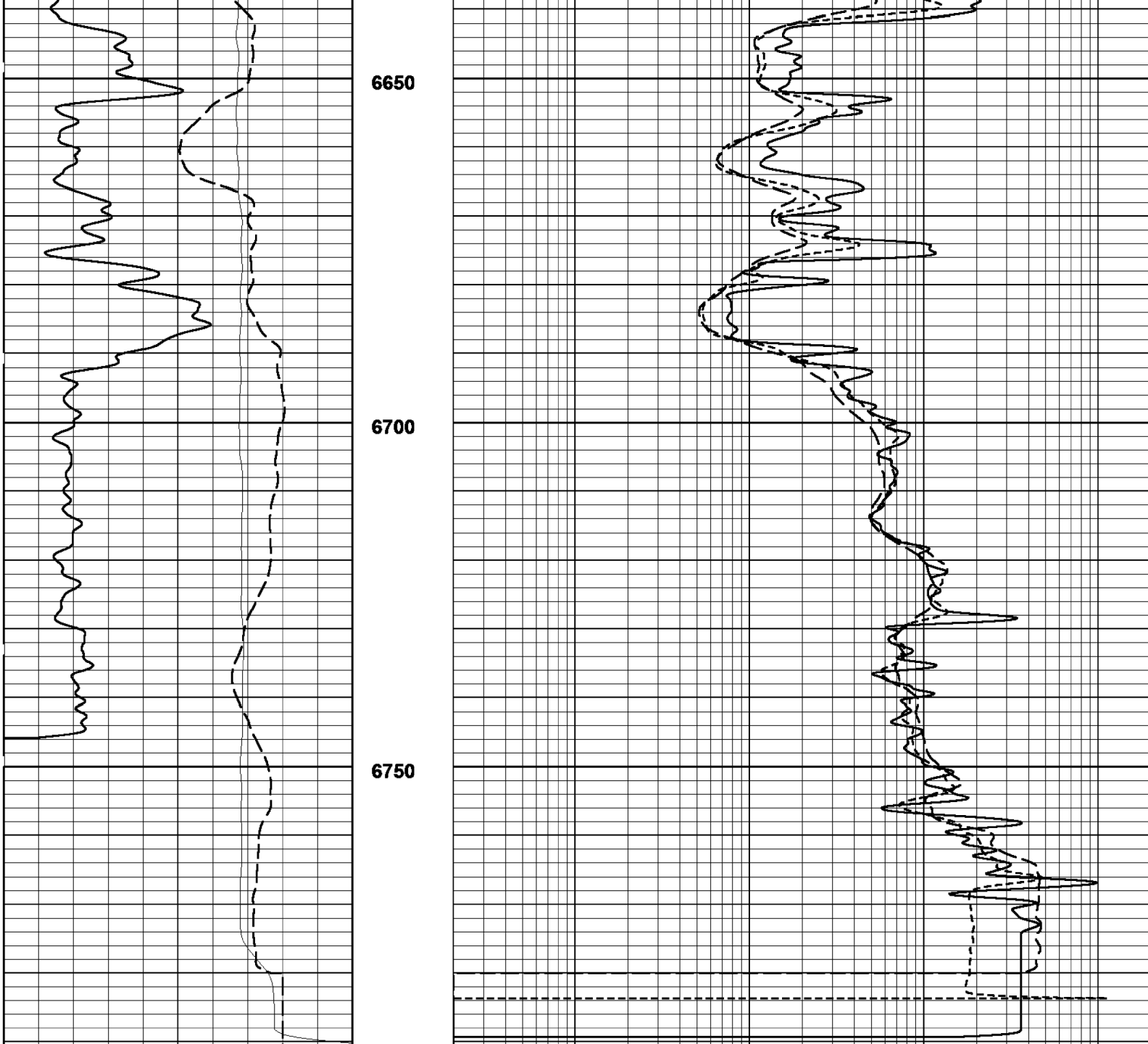
6100

6150







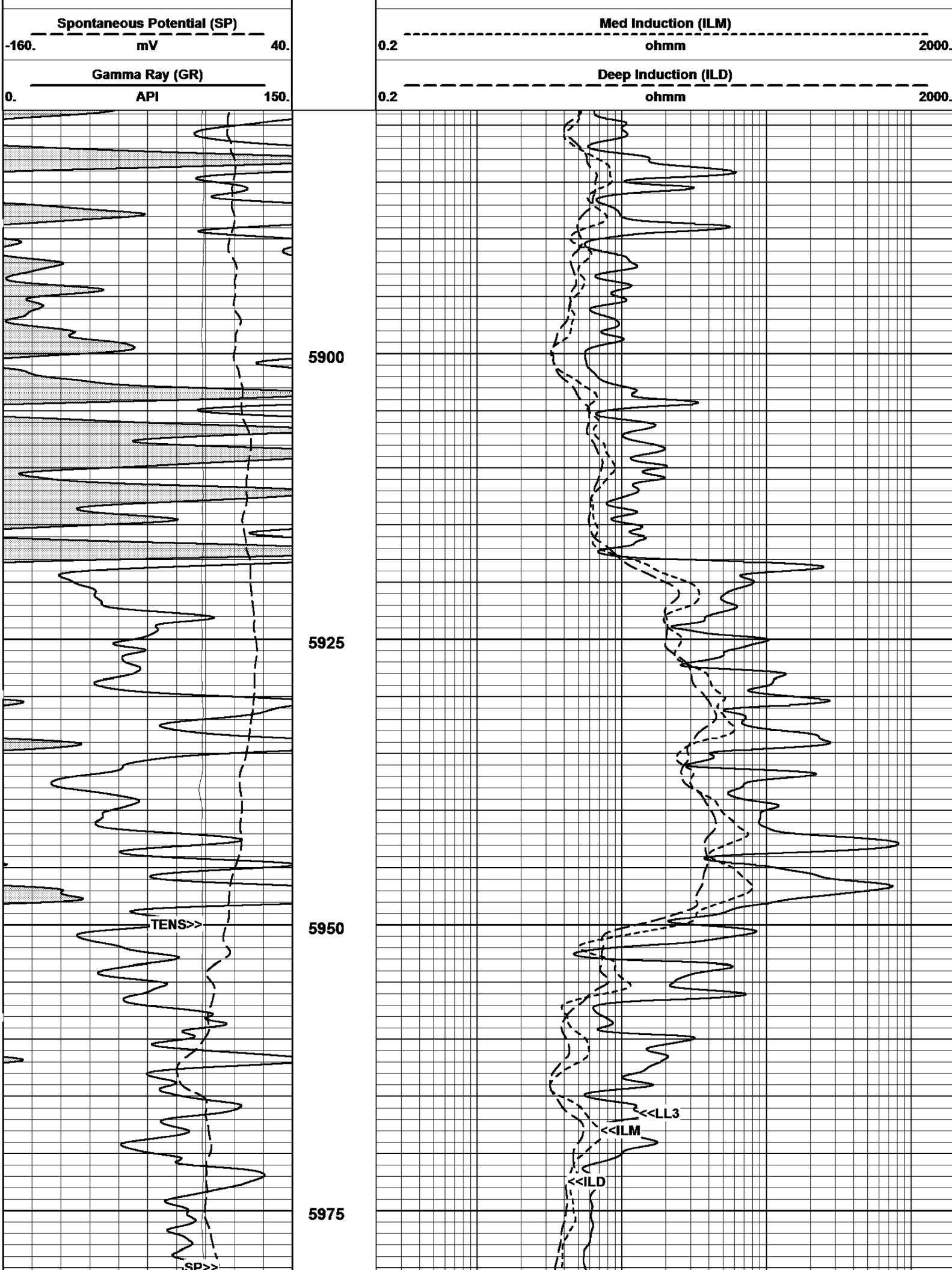


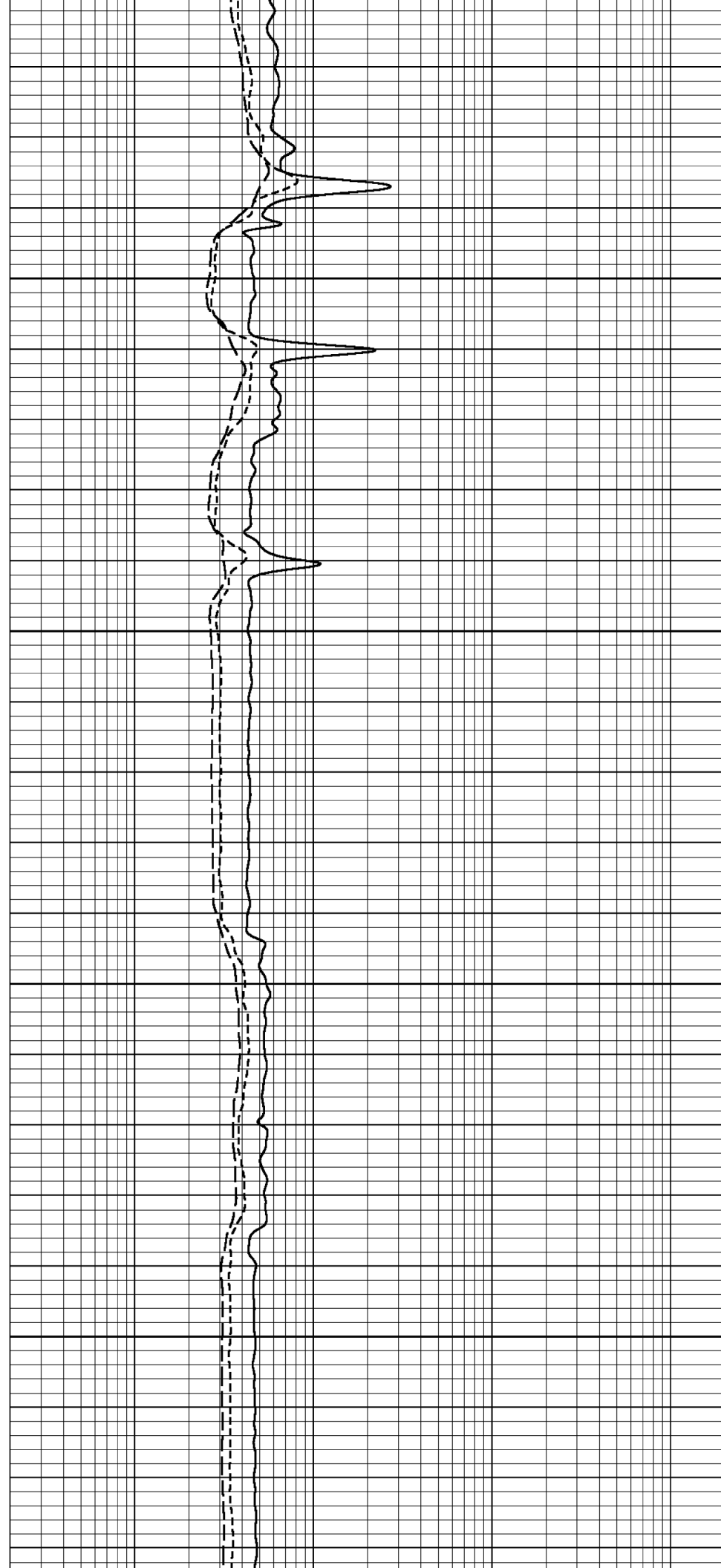
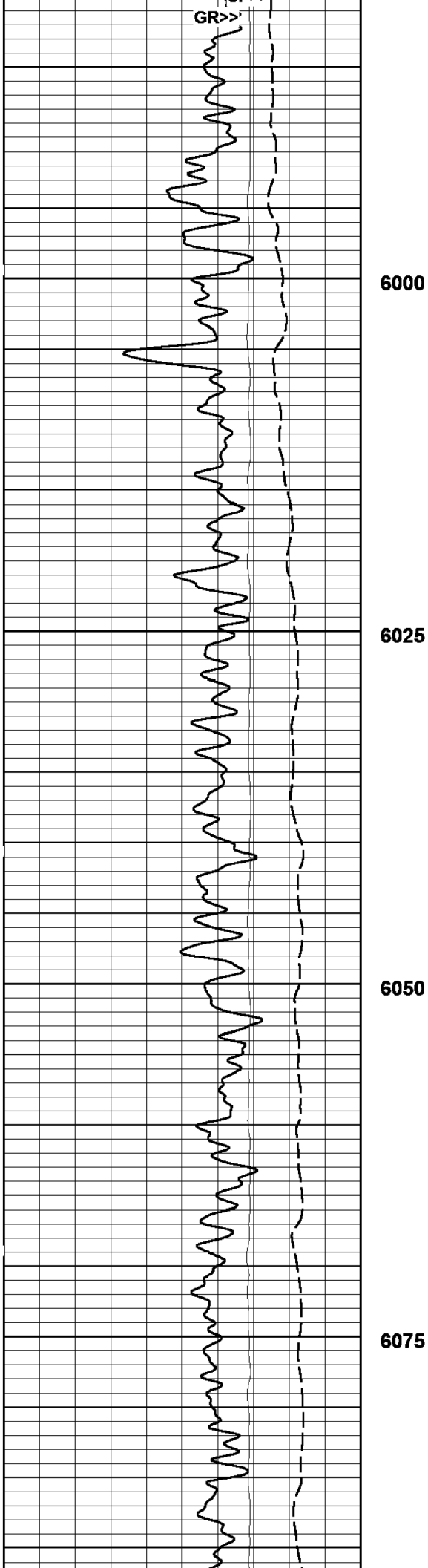
Gamma Ray (GR) 0. API 150.	Deep Induction (ILD) 0.2 ohmm 2000.
Spontaneous Potential (SP) -160. mV 40.	Med Induction (ILM) 0.2 ohmm 2000.
Tension (TENS) 10000. Lbs 0.	Laterolog (LL3) 0.2 ohmm 2000.

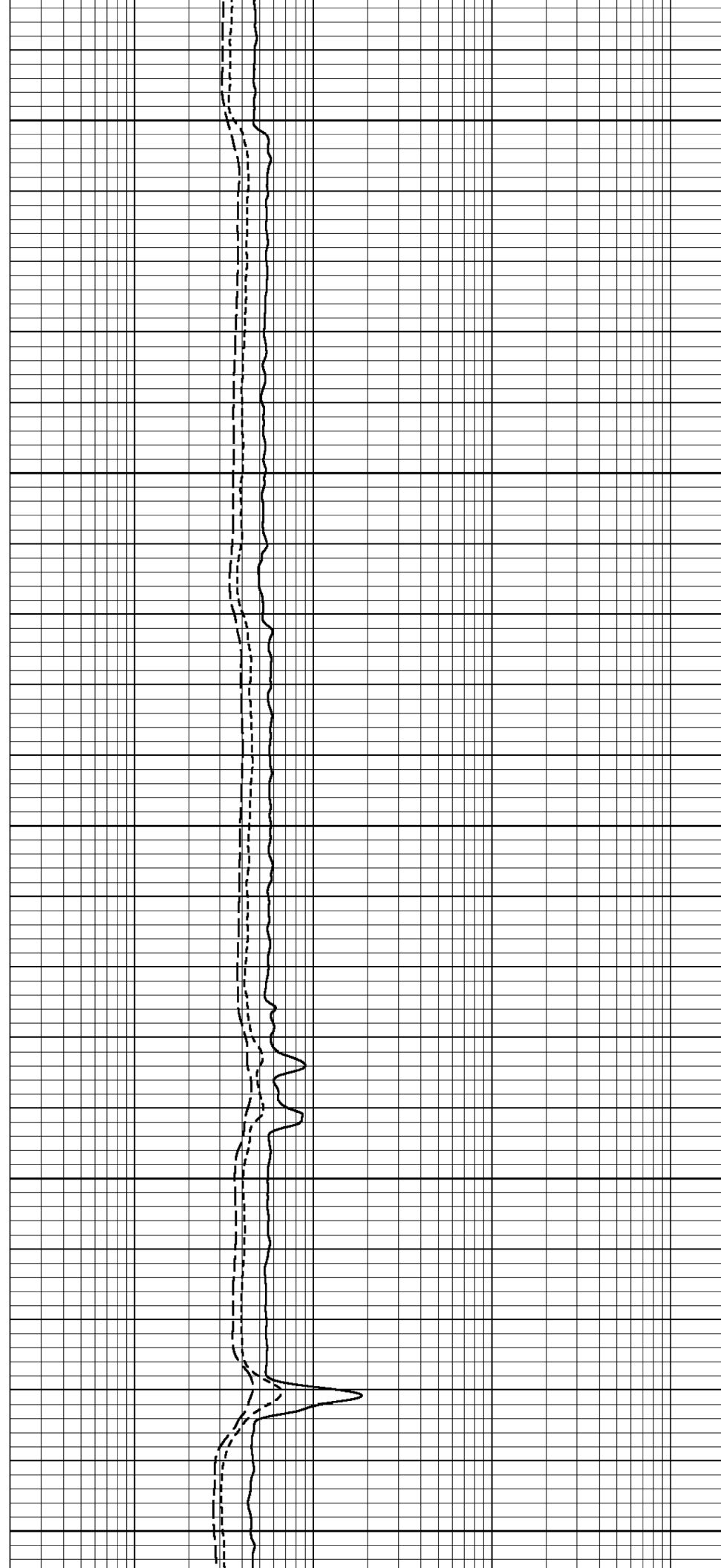
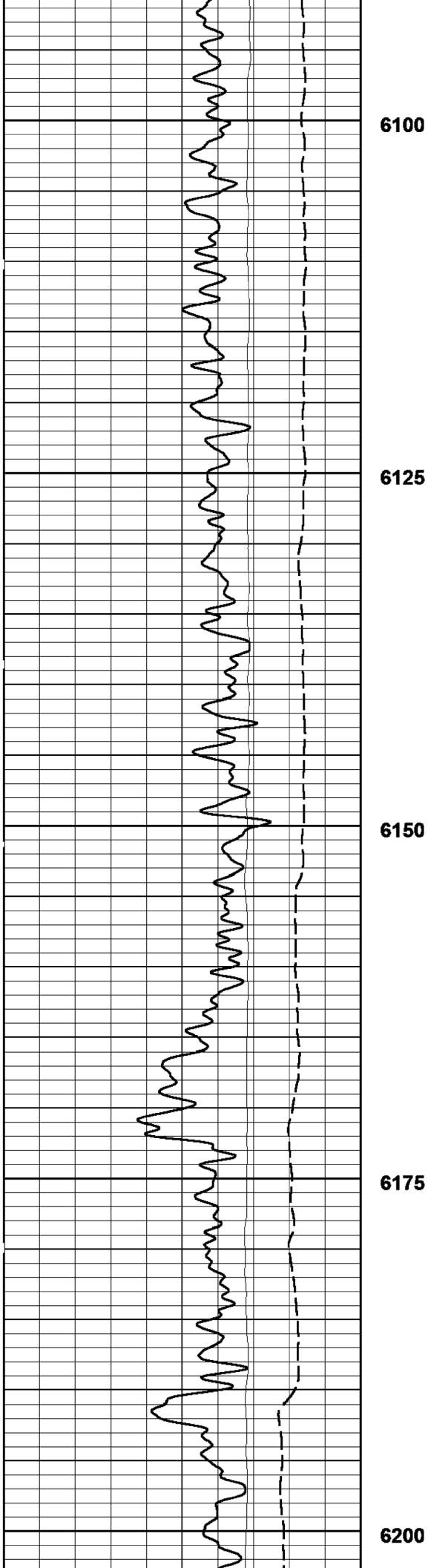
10/28/2010	REPEAT PASS (5"/100ft)	Log UP - (VER 10.16)
19:18:31 ⇒ Start Time		Start Depth⇒ 6790.90 Feet

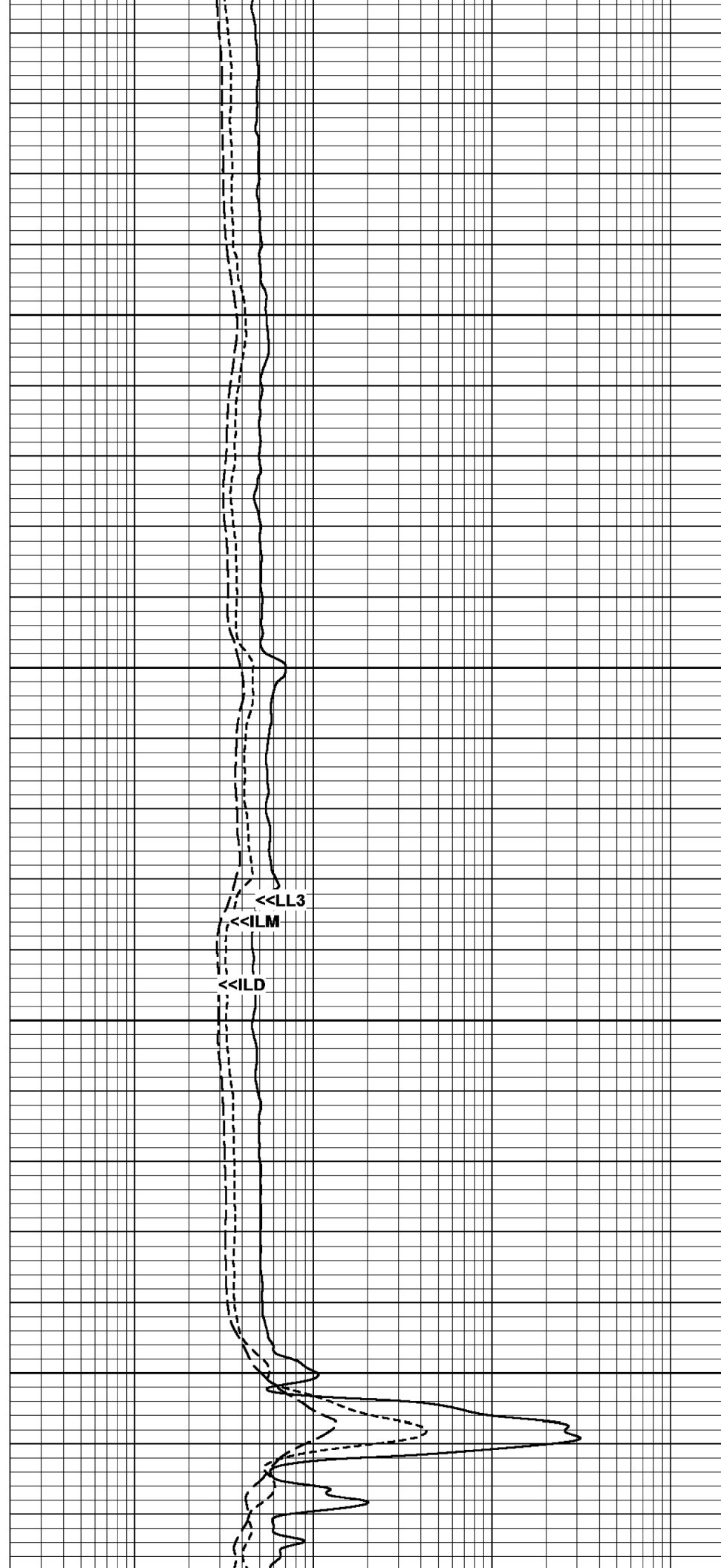
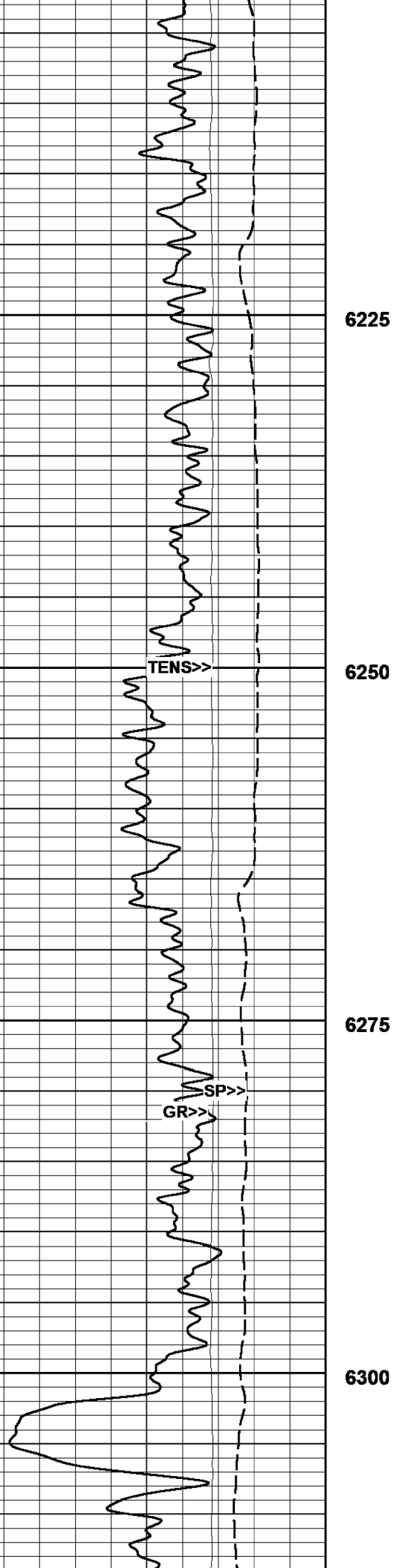
10/28/2010	MAIN PASS (10"/100FT)	Log UP - (VER 10.16)
19:43:49 ⇒ End Time		End Depth⇒ 5878.80 Feet

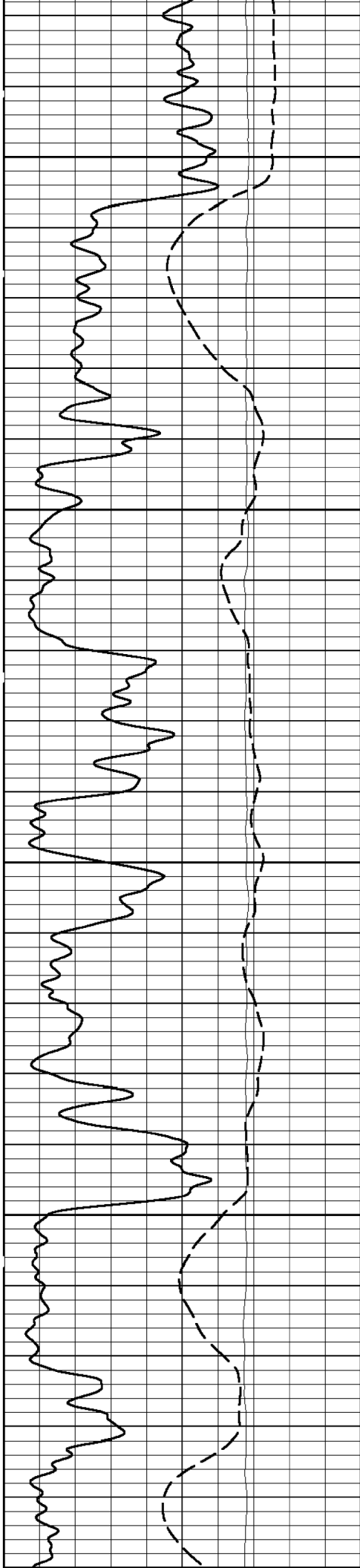
Tension (TENS) 10000. Lbs 0.	Laterolog (LL3) 0.2 ohmm 2000.
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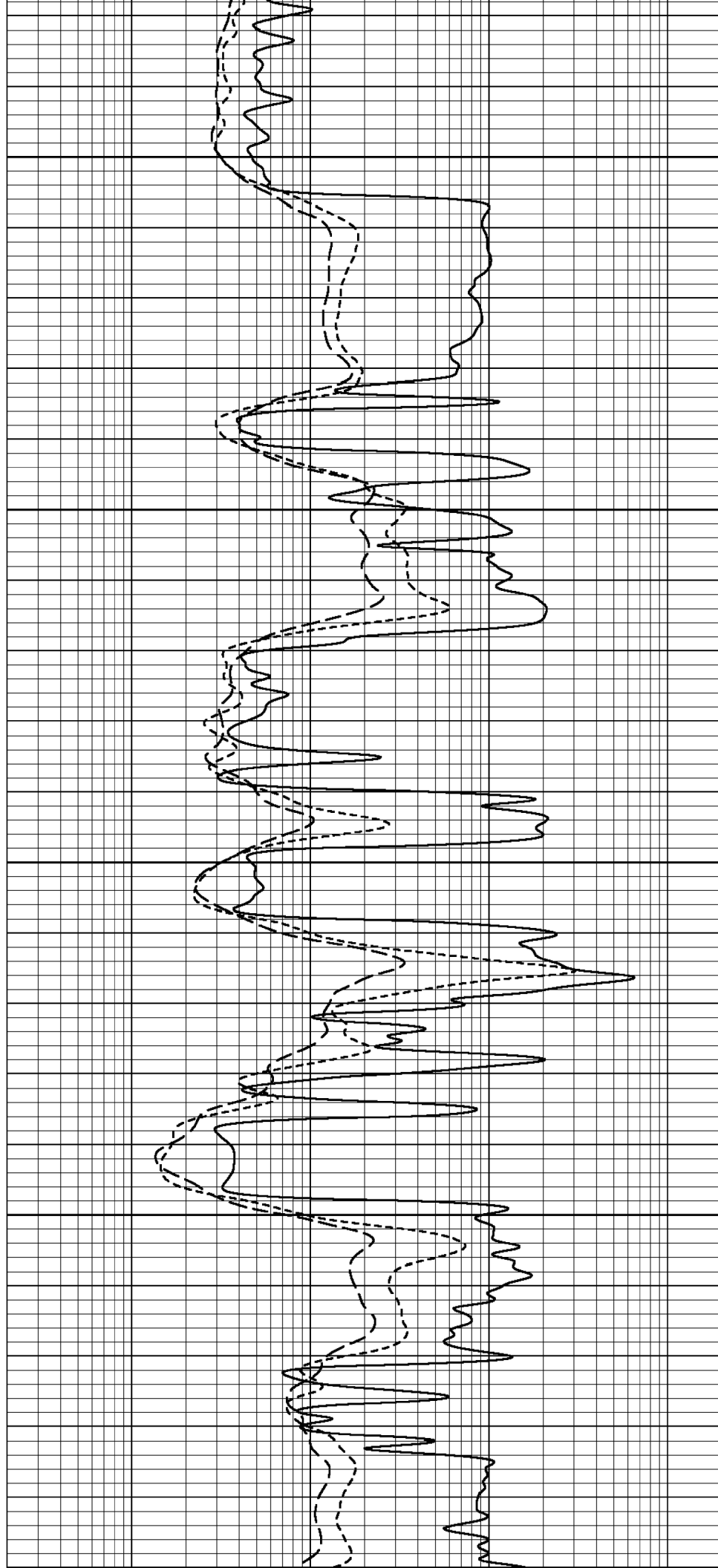
6325

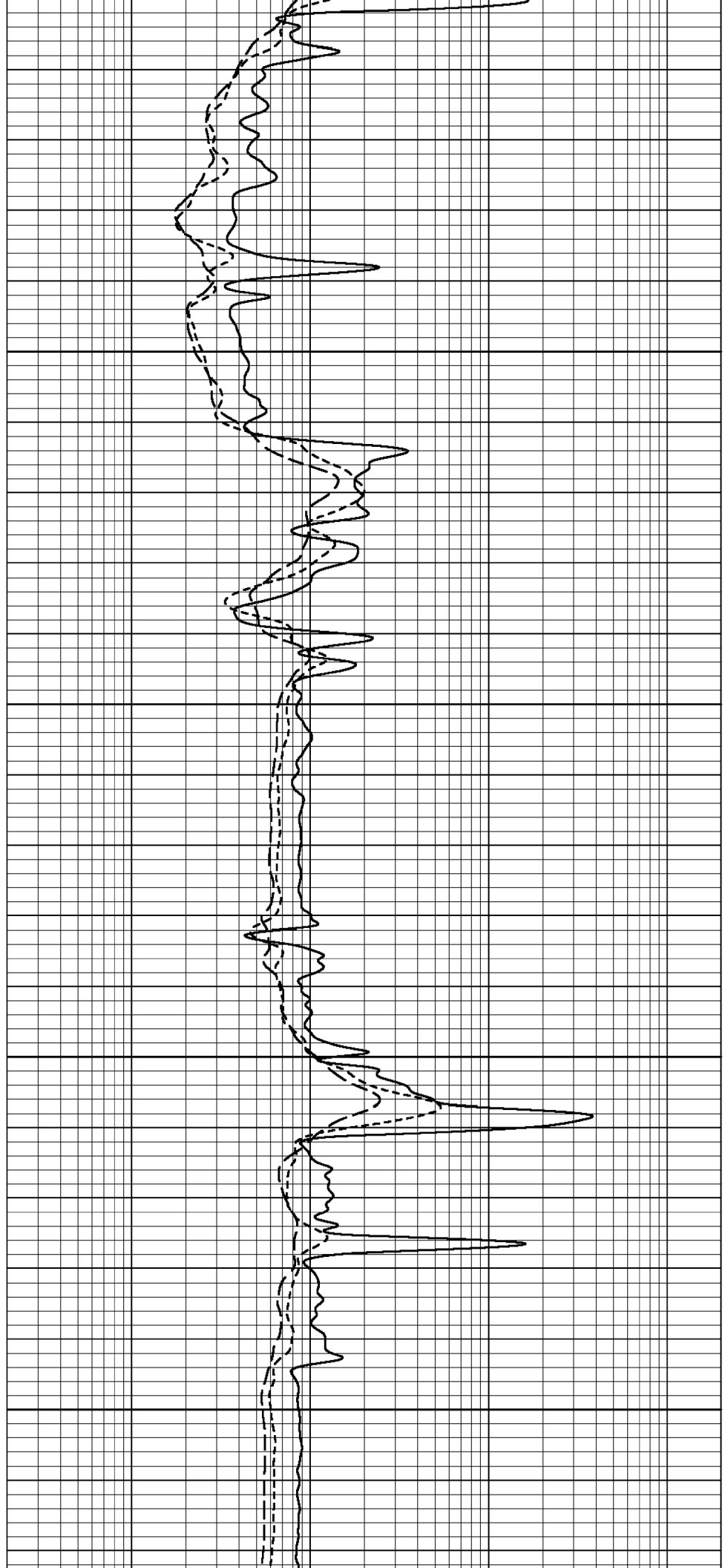
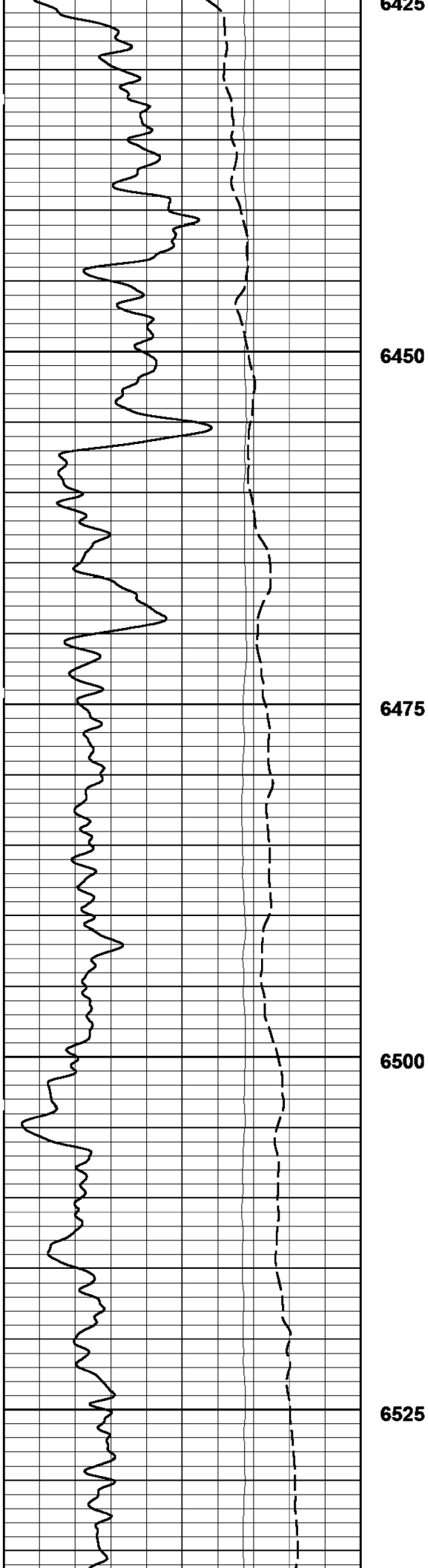
6350

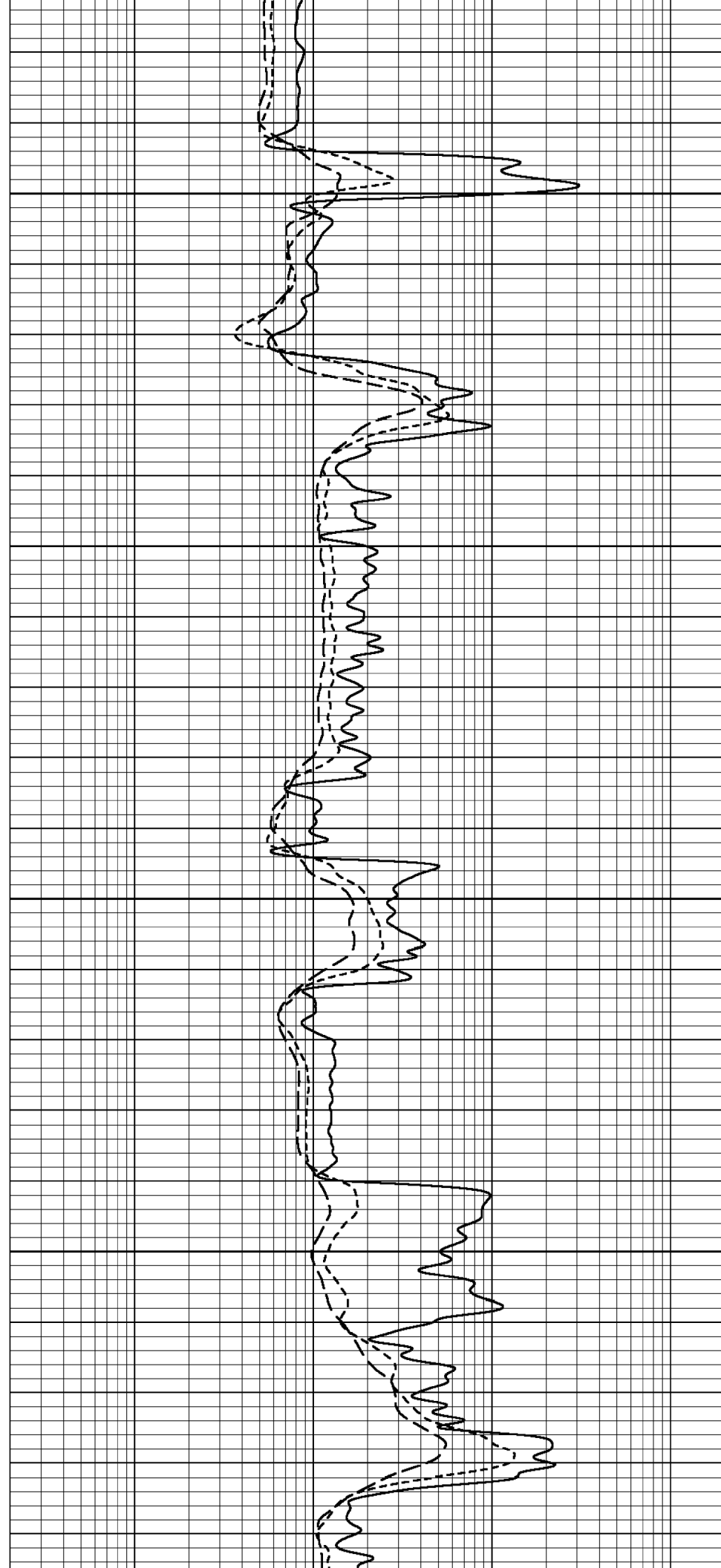
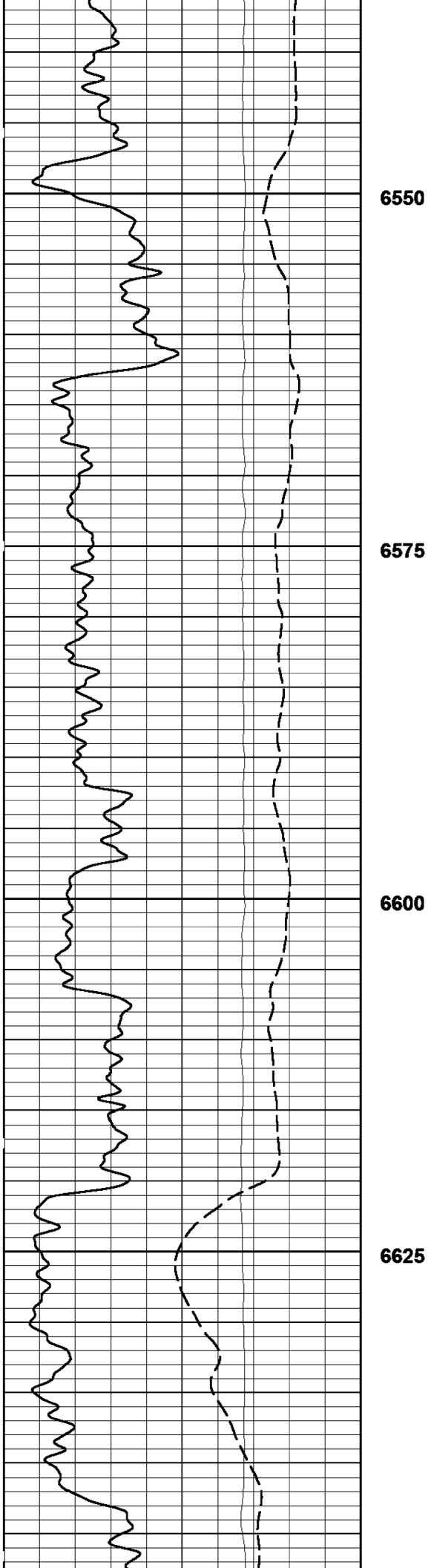
6375

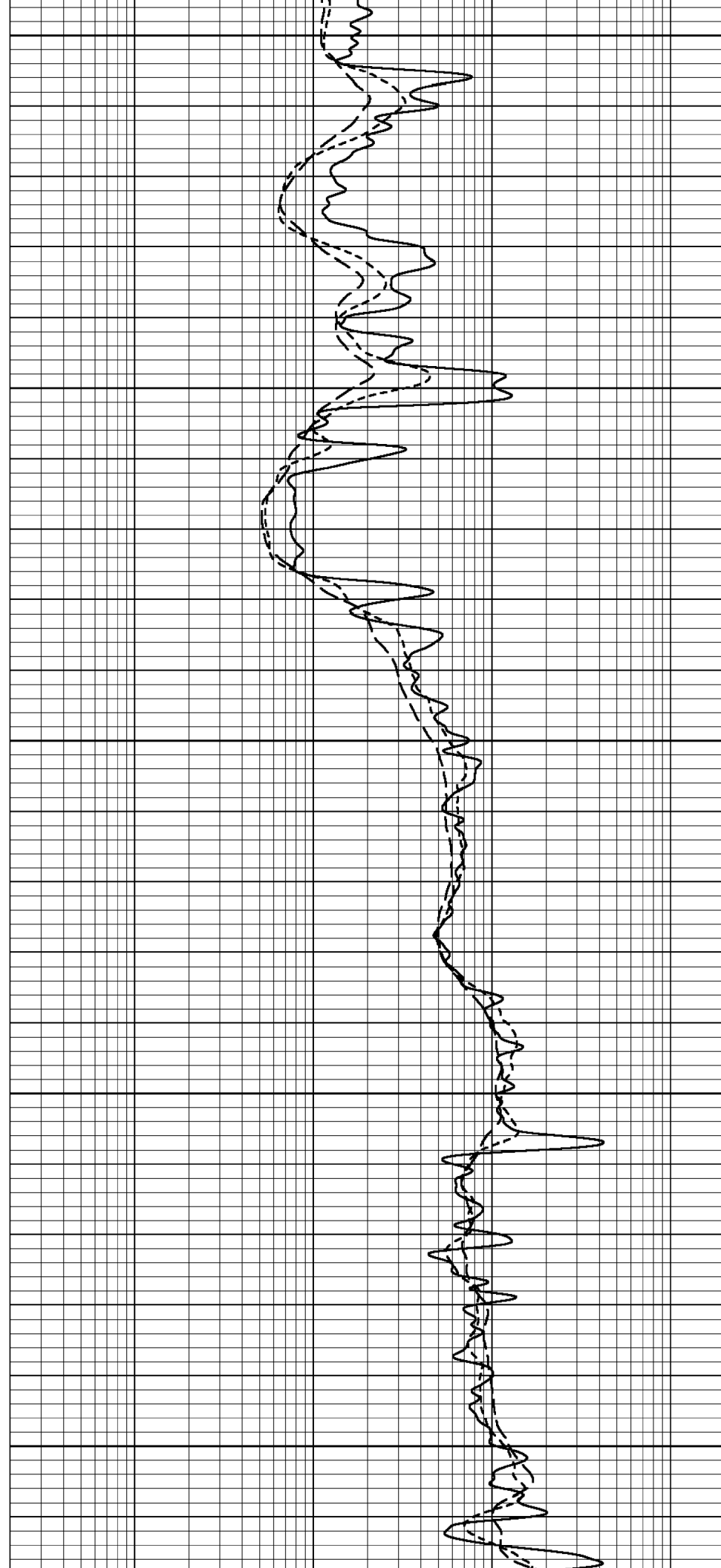
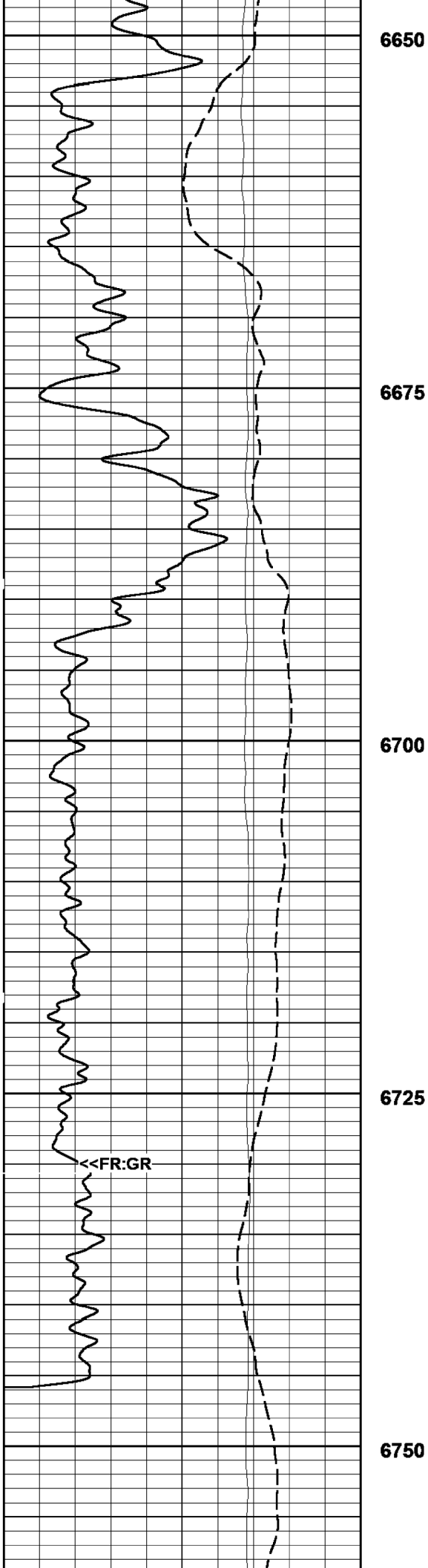
6400

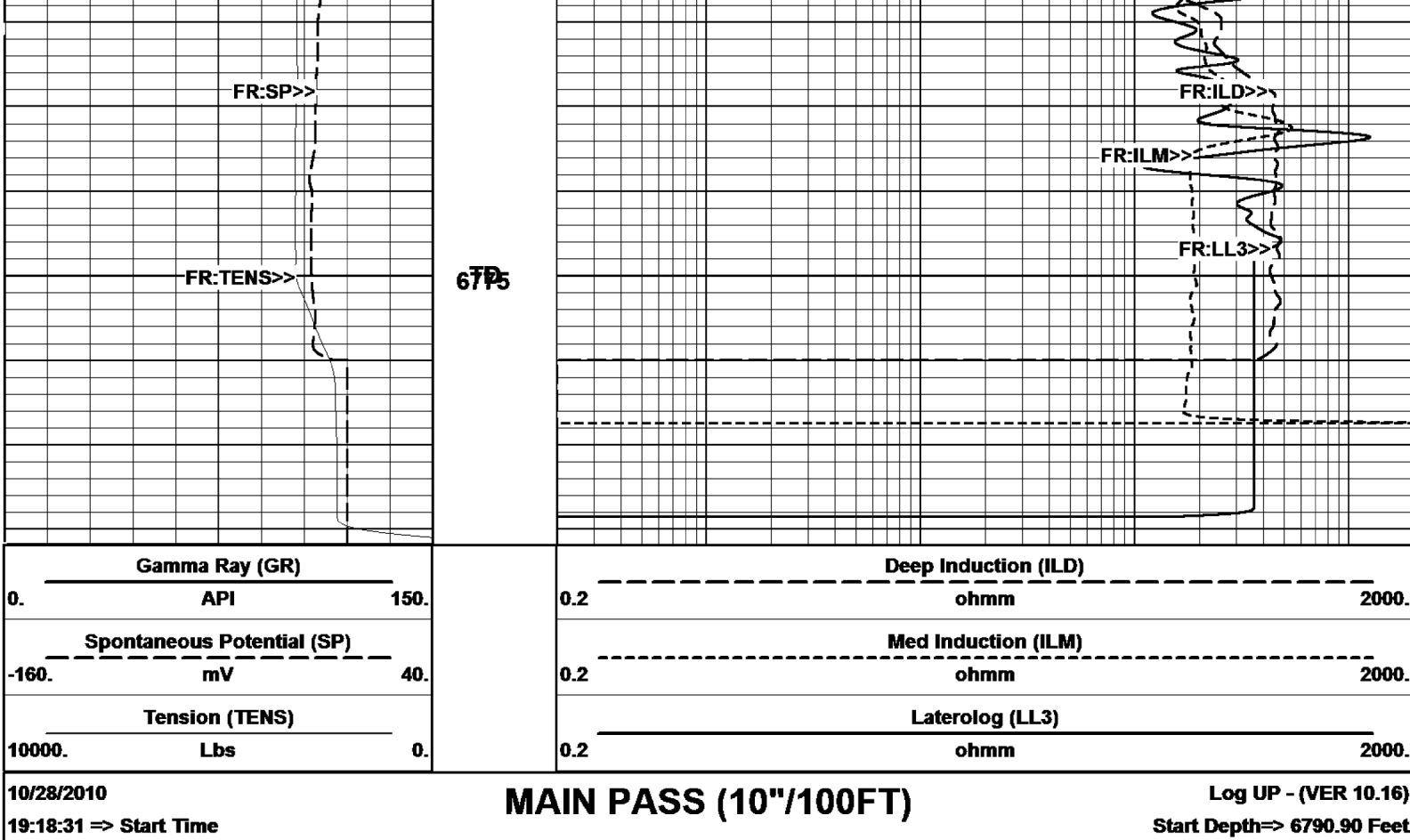
6425











Induction Resistivity / Conductivity Calibrations

TOOL TYPE
SERIAL NUM

BA-Dual Induction/LL3
RD1004

LOOP TYPE
LOOP NUM

MASTER CALIBRATIONS

	OPEN LOOP(mmho)		CLOSED LOOP(mmho)		LOOP VERIFIER(mV)		CALIBRATION DATE	CALIBRATION TIME
	NO SKIN		NO SKIN	W/ SKIN	ZERO(mV)	SPAN(mV)		
DEEP INDUCTION	0.000		400.000	499.231	-5.395	648.882	M/D/Y> 8/30/2010	H:M:S> 10:8:59
MED INDUCTION	0.000		462.500	501.895	3.397	816.009	M/D/Y> 8/30/2010	H:M:S> 10:9:2
SHALLOW LATERLOG	CALIBRATOR LOW(ohm)		CALIBRATOR HI(ohm)		LOW(mV)	HI(mV)	M/D/Y> 8/30/2010	H:M:S> 10:9:4
	0.000		1480.000		4.750	7399.640		

WELL SITE CALIBRATIONS

GAMMA RAY CALIBRATION

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SERIAL NUM
BLANKET NUM

RG3007
1A

MASTER CALIBRATIONS

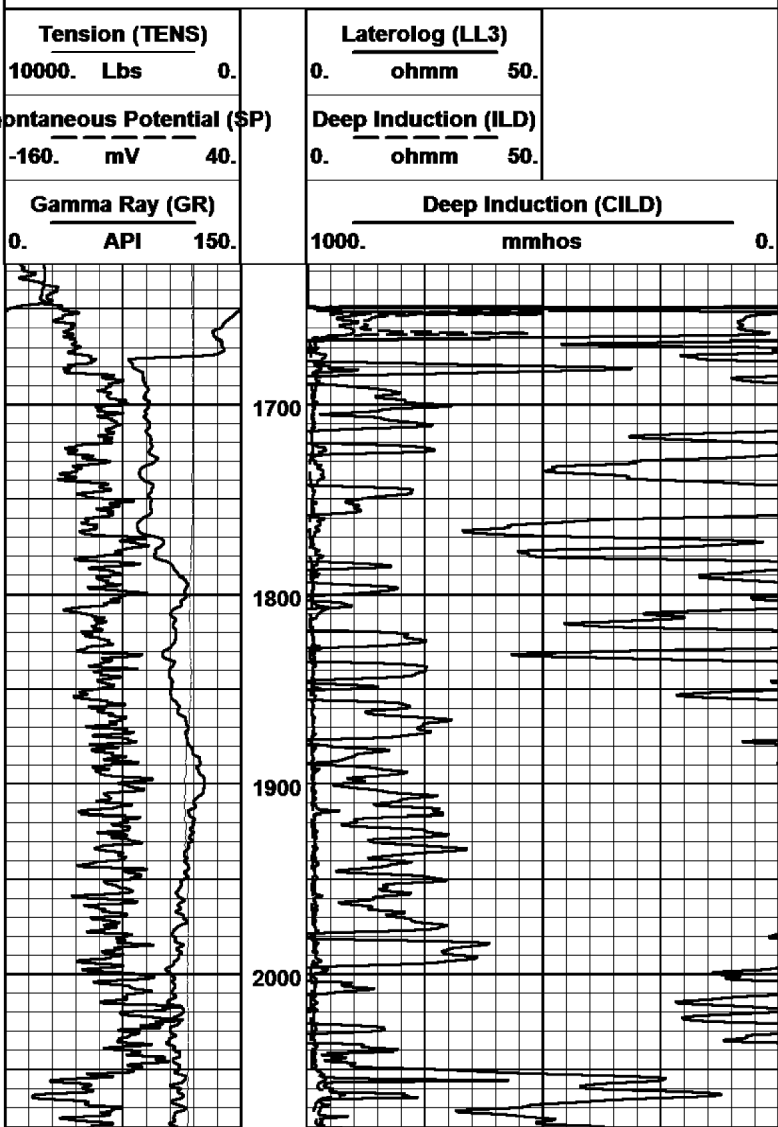
	BackGrnd	CalVal: 135.000 API	Gain/Offset	CALIBRATION DATE	CALIBRATION TIME
BASE CALS	62.386 - raw	407.027 - raw	0.392 - gain 0.000 - off	M/D/Y> 9/14/2010	H:M:S> 14:50:51

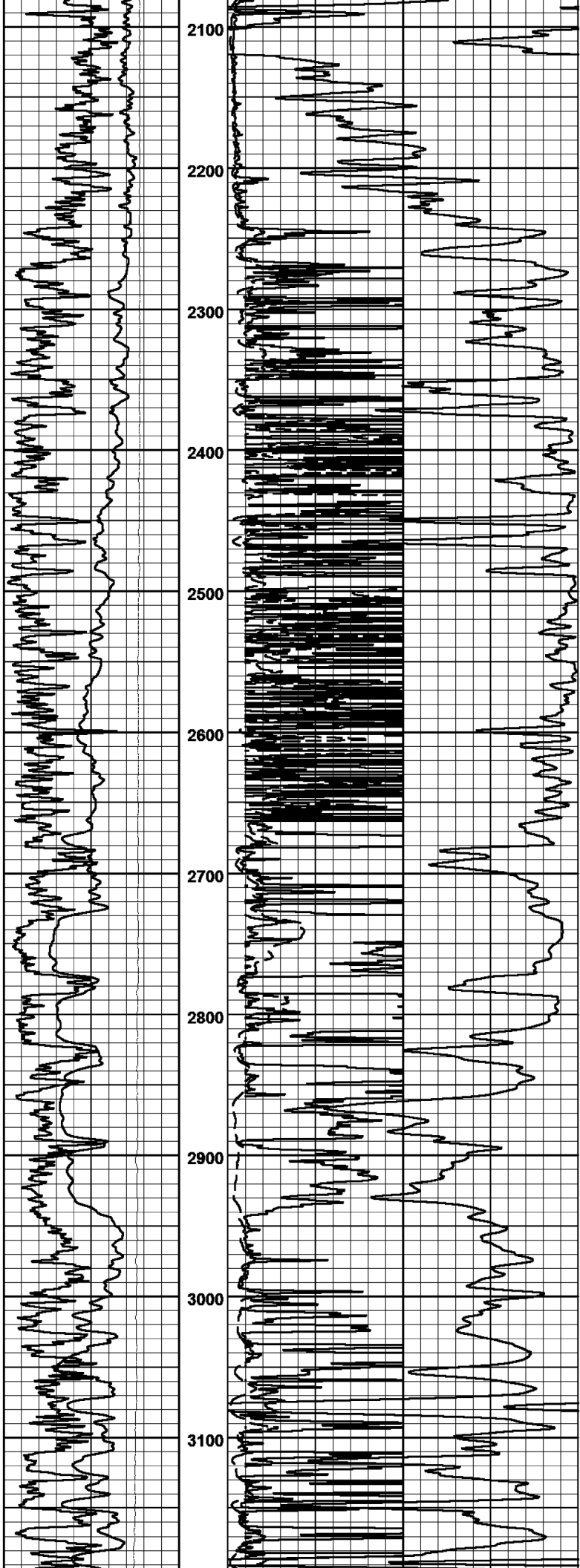
Company	MIDWESTERN EXPLORATION COMPANY
Well	MARIAN #2-14
Field	WIDE AWAKE
County	STEVENS
State	KANSAS

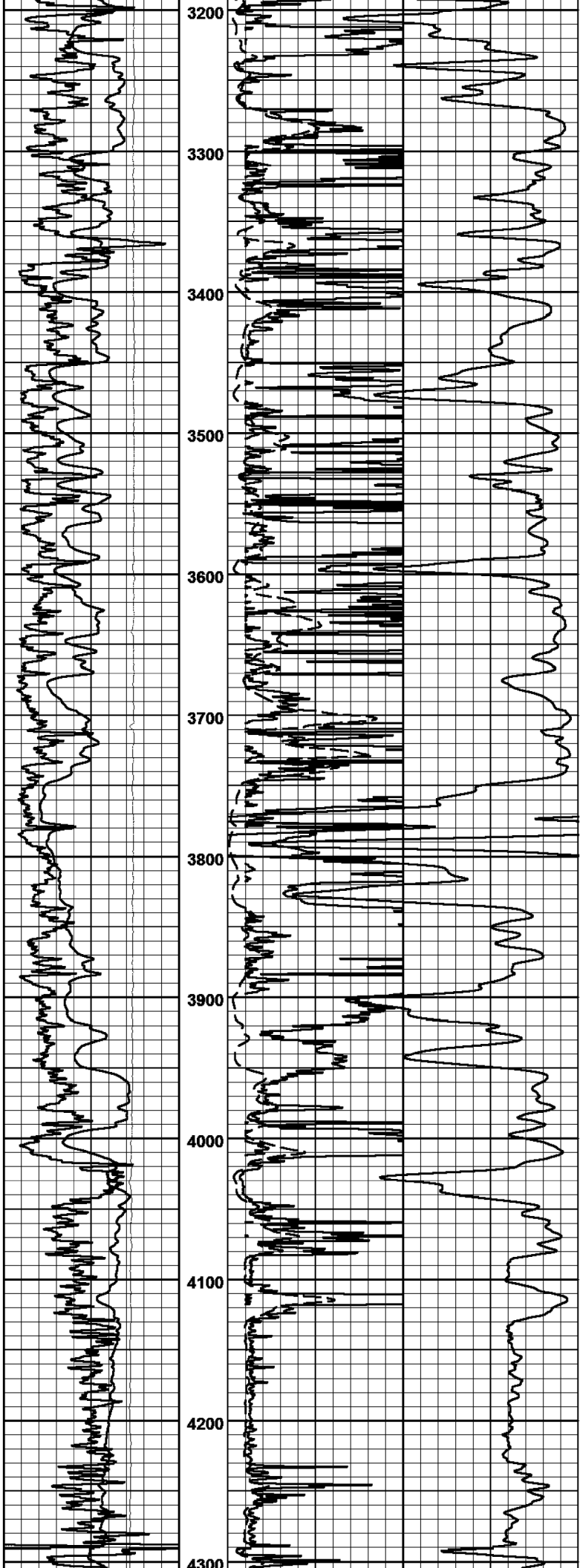
RECON

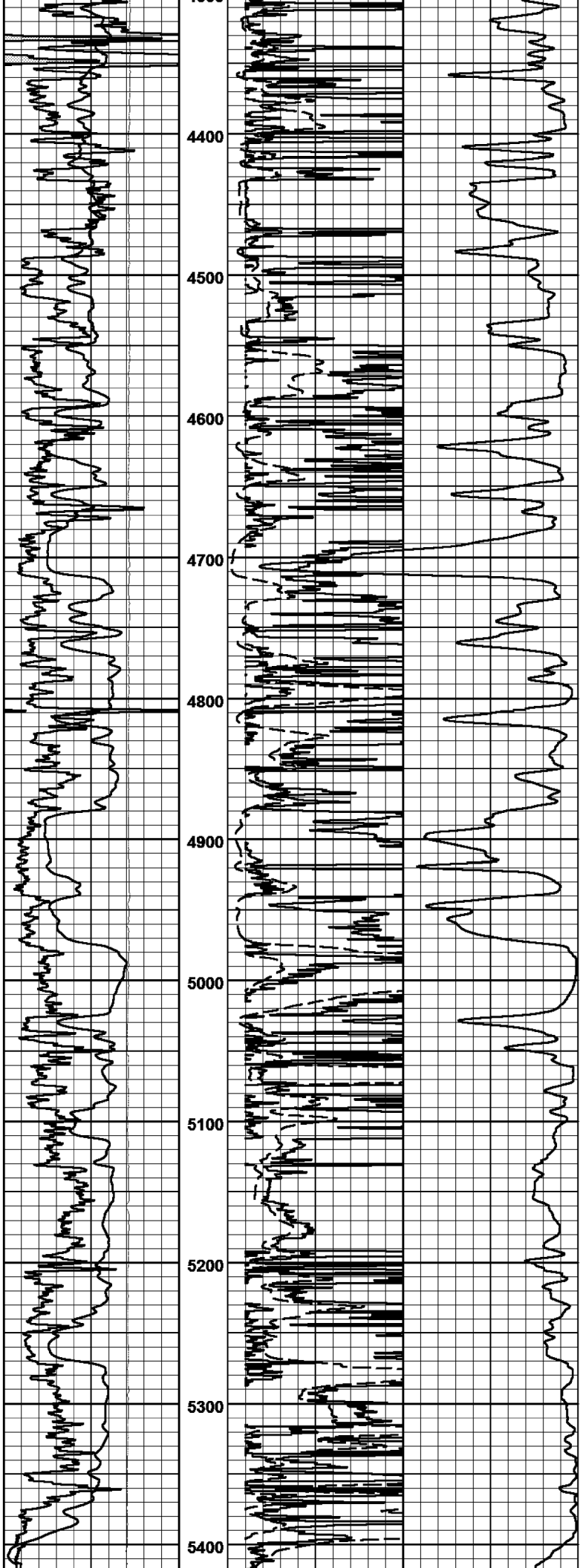
DUAL INDUCTION
LATEROLOG - SP
GAMMA RAY

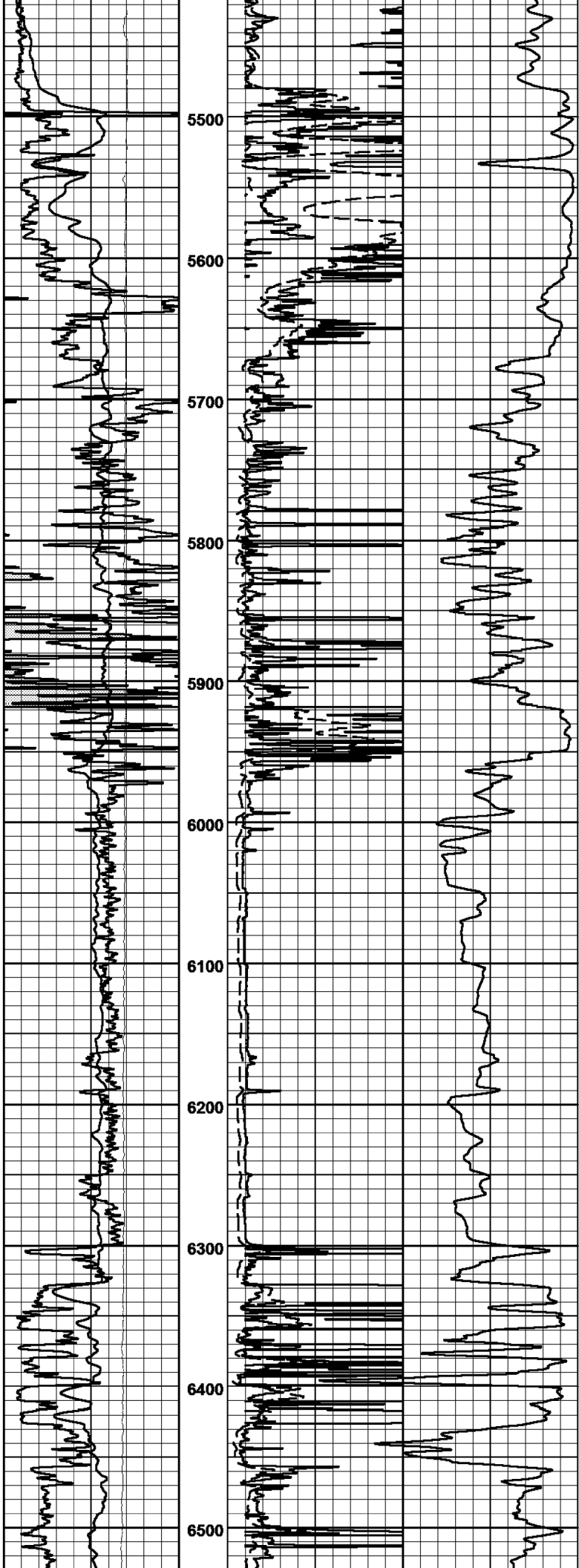
10/28/2010 MAIN PASS (1"/100FT) Log UP - (VER 10.16)
21:52:57 => End Time End Depth=> 1627.50 Feet

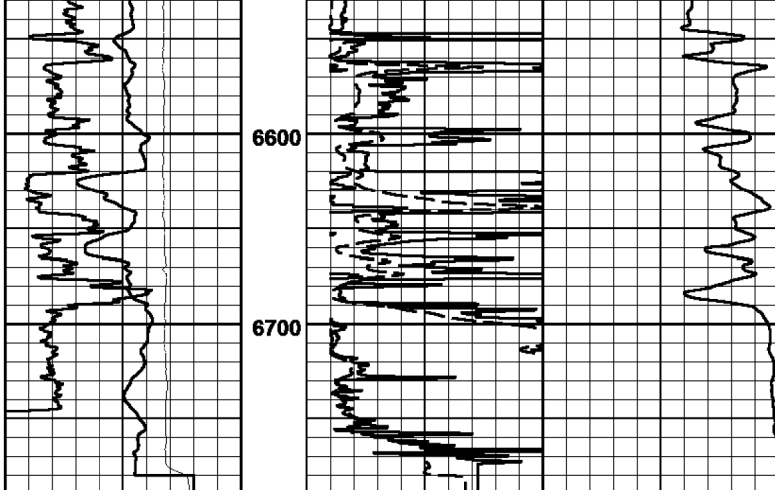












Gamma Ray (GR)		Deep Induction (CILD)	
0.	API 150.	1000.	mmhos 0.
Spontaneous Potential (SP)		Deep Induction (ILD)	
-160.	mV 40.	0.	ohmm 50.
Tension (TENS)		Laterolog (LL3)	
10000.	Lbs 0.	0.	ohmm 50.
10/28/2010 MAIN PASS (1"/100FT) Log UP - (VER 10.16)			
19:51:29 => Start Time		Start Depth=> 6790.50 Feet	