

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



**DUAL INDUCTION
 LATEROLOG - SP
 GAMMA RAY**

SEC	TWP	RGE	OTHER SERVICES:	
07	35S	35W	LDT	CNL
Location: 660' FSL & 1650' FWL		W2 SE SW	XY CALIPER	MEL BHC 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	57	sec/qt
Fluid Loss	7.6	cm/30min
PH	10.0	strip
Source Of Sample	Flowline	
RM @ Measured Temp	1.976	Ohmm @ 75
RMF @ Measured Temp	1.482	Ohmm @ 75
RMG @ 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		
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

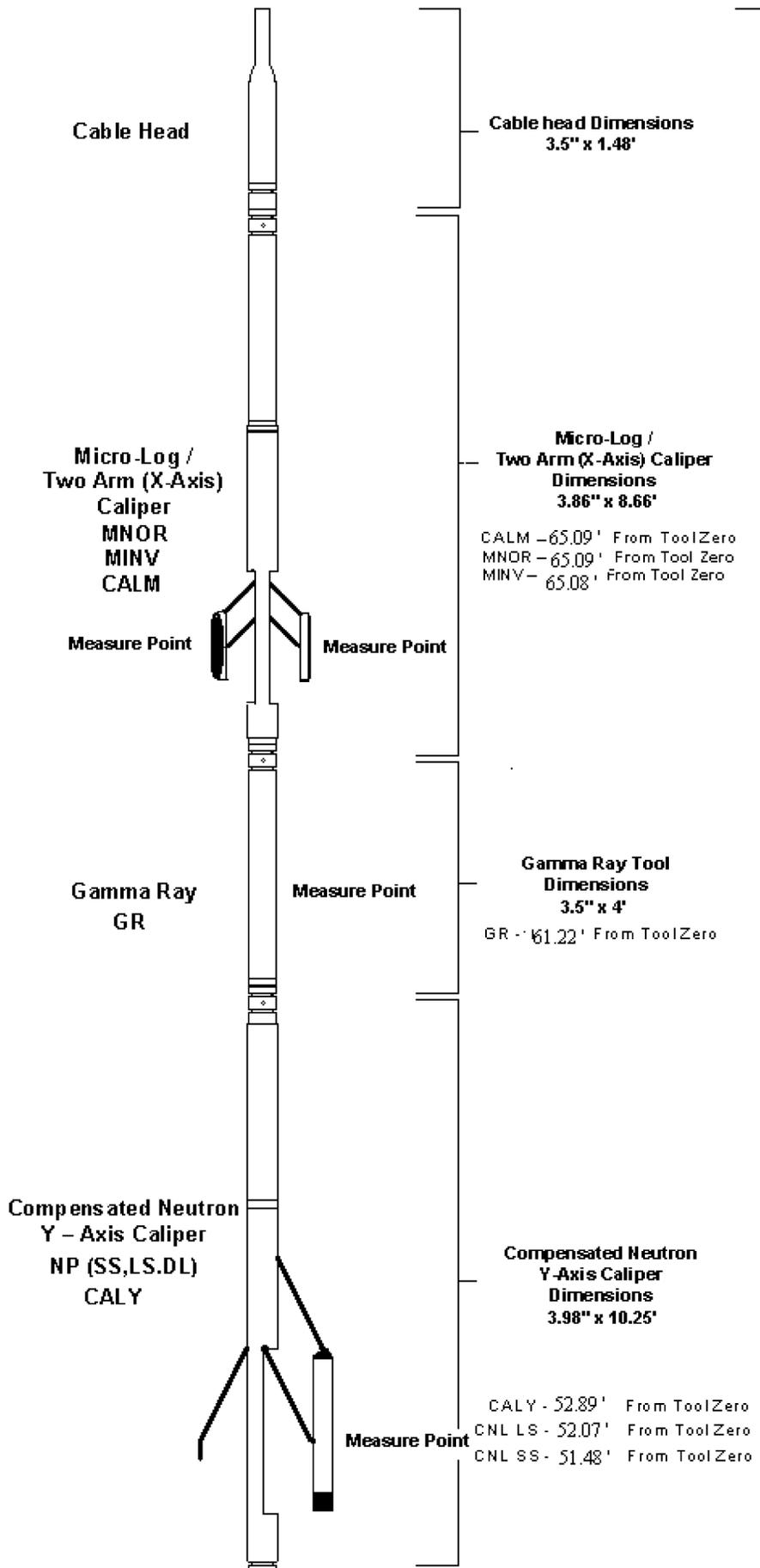
THANK YOU FOR USING RECON PETROTECHNOLOGIES LTD.

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'**

**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 - 38.94' From ToolZero
LDT w1 -
LDT w2 - -38.68' From ToolZero
LDT w3 -
LDT w4 -
LDT SS - 38.19' From ToolZero

**Tool String
Length Total
73.64'**

**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'**

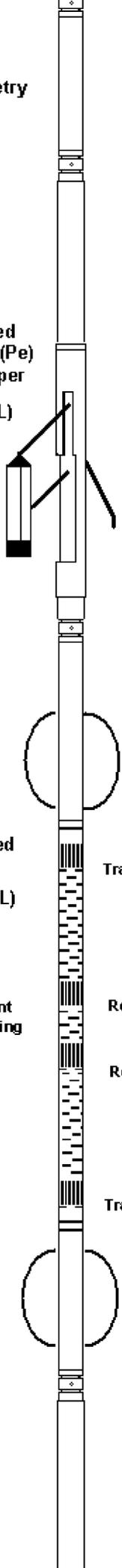
T1R1 - 33.35' From ToolZero
T1R2 - 31.35' From Tool Zero

R-1
Receiver 1

R-2
Receiver 2

T2R1 - 28.54' From Tool Zero
T2R2 - 28.37' From Tool Zero

T-2
Transmitter 2



Dual Induction

SP
ILD
ILM
LL3



S.P. / CILD
Measure Point

CILM Measure
Point

Laterolog 3
Measure Point

Tool Zero Point
(Tool Bottom)

**Dual Induction Tool
Dimensions
3.62" x 21'**

SP - 10.96' From ToolZero
ILD - 10.96' From ToolZero

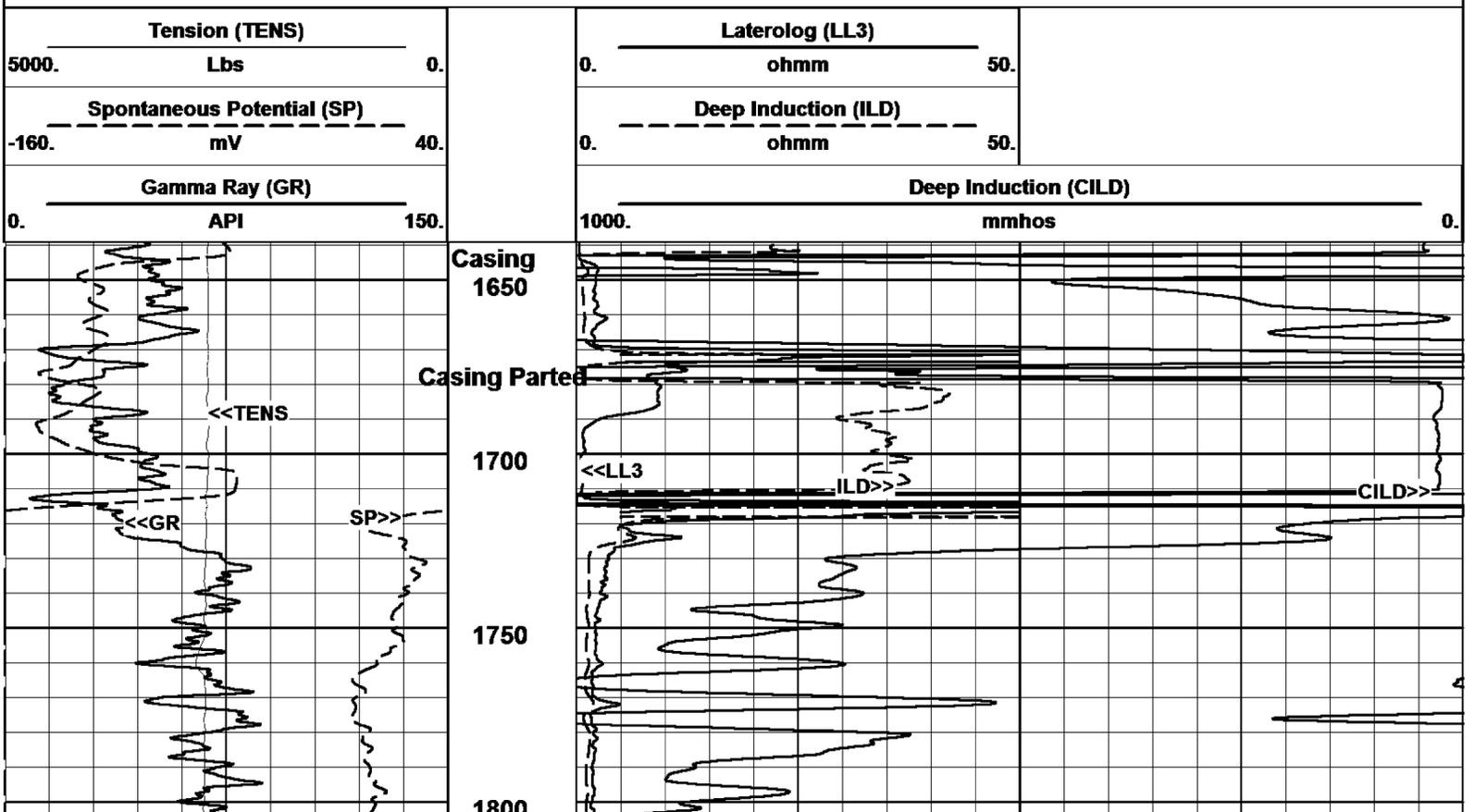
ILM - 7.22' From ToolZero

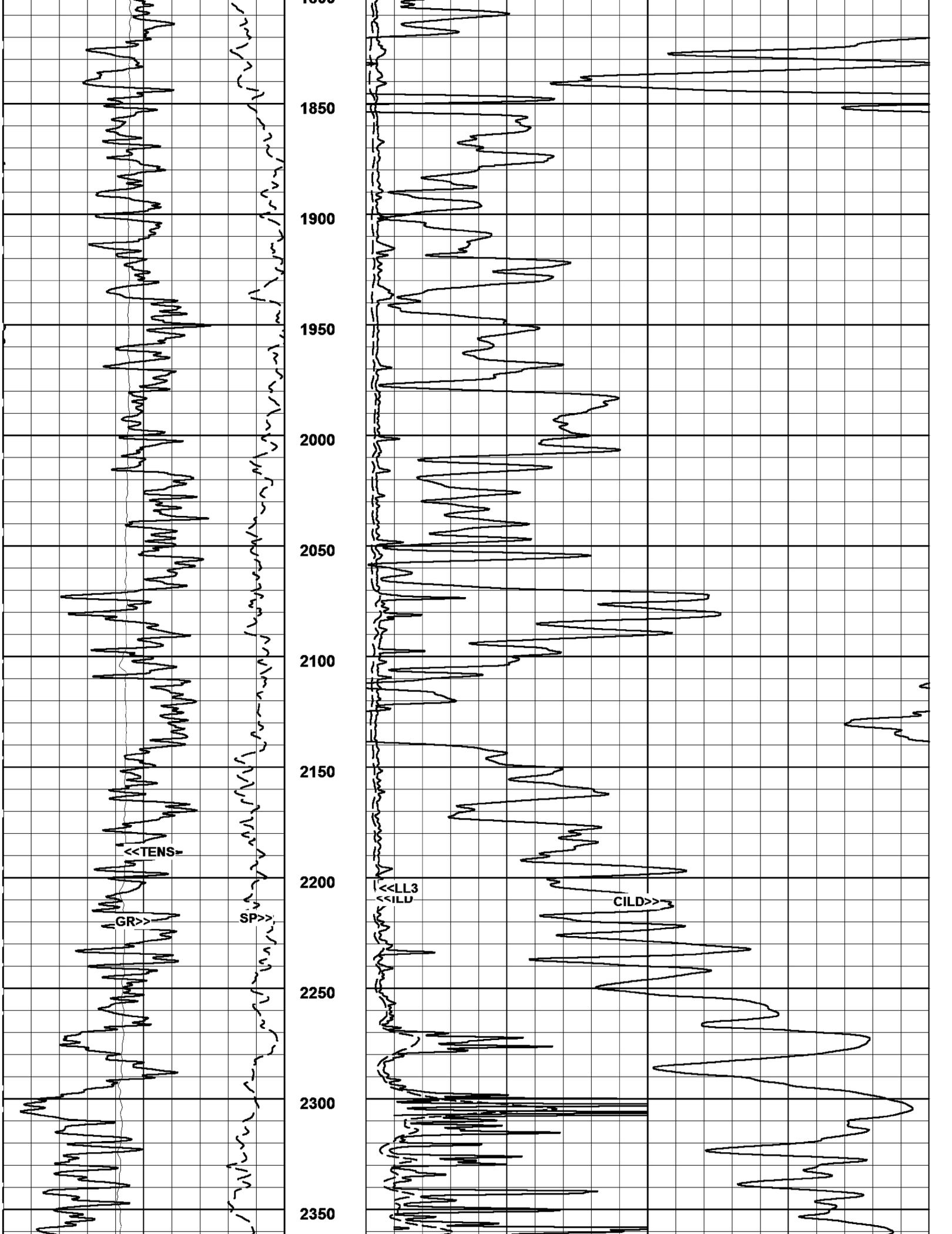
LL3 - 1.67' From ToolZero

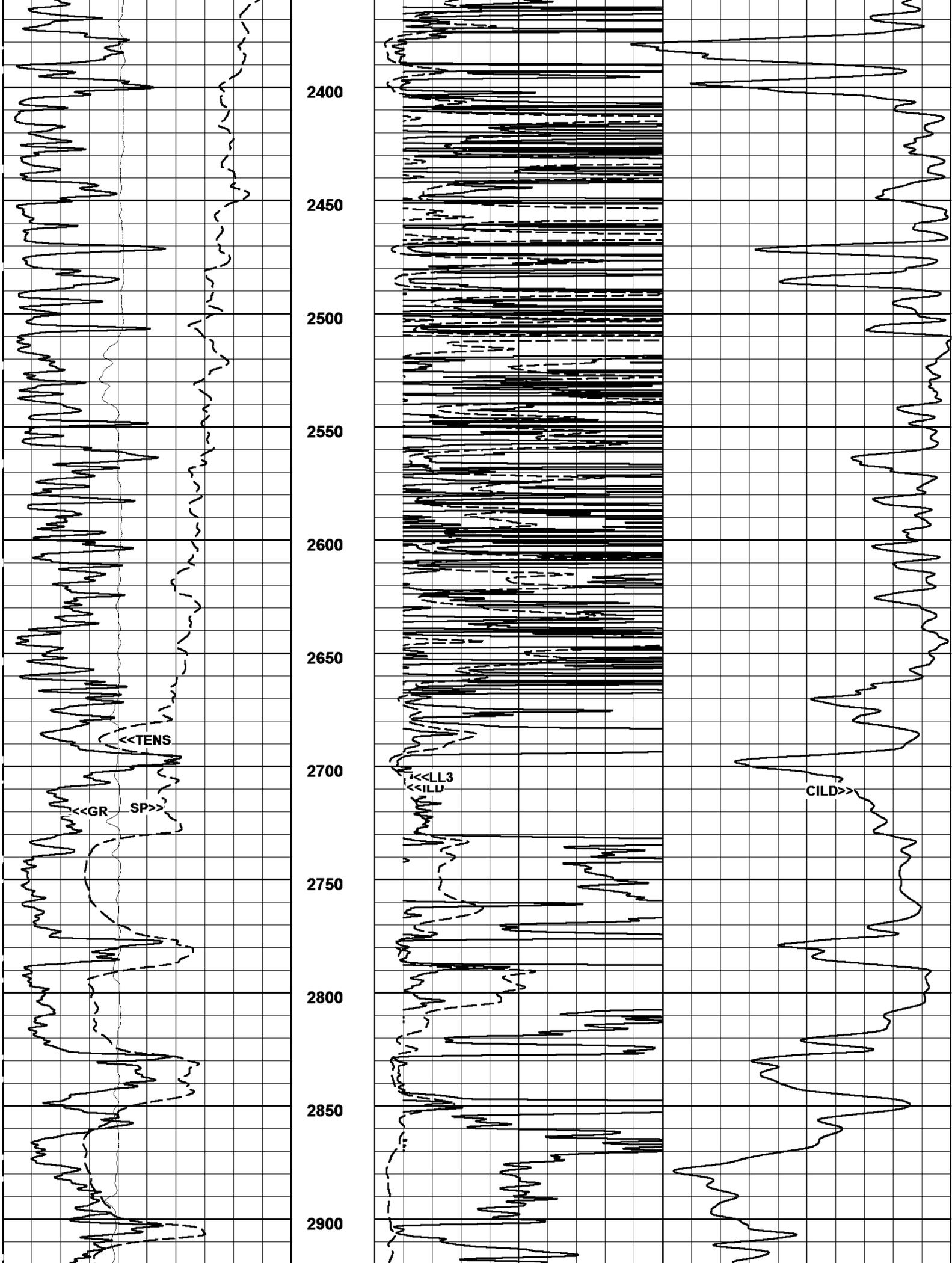
All Measurements are
taken from Tool Zero

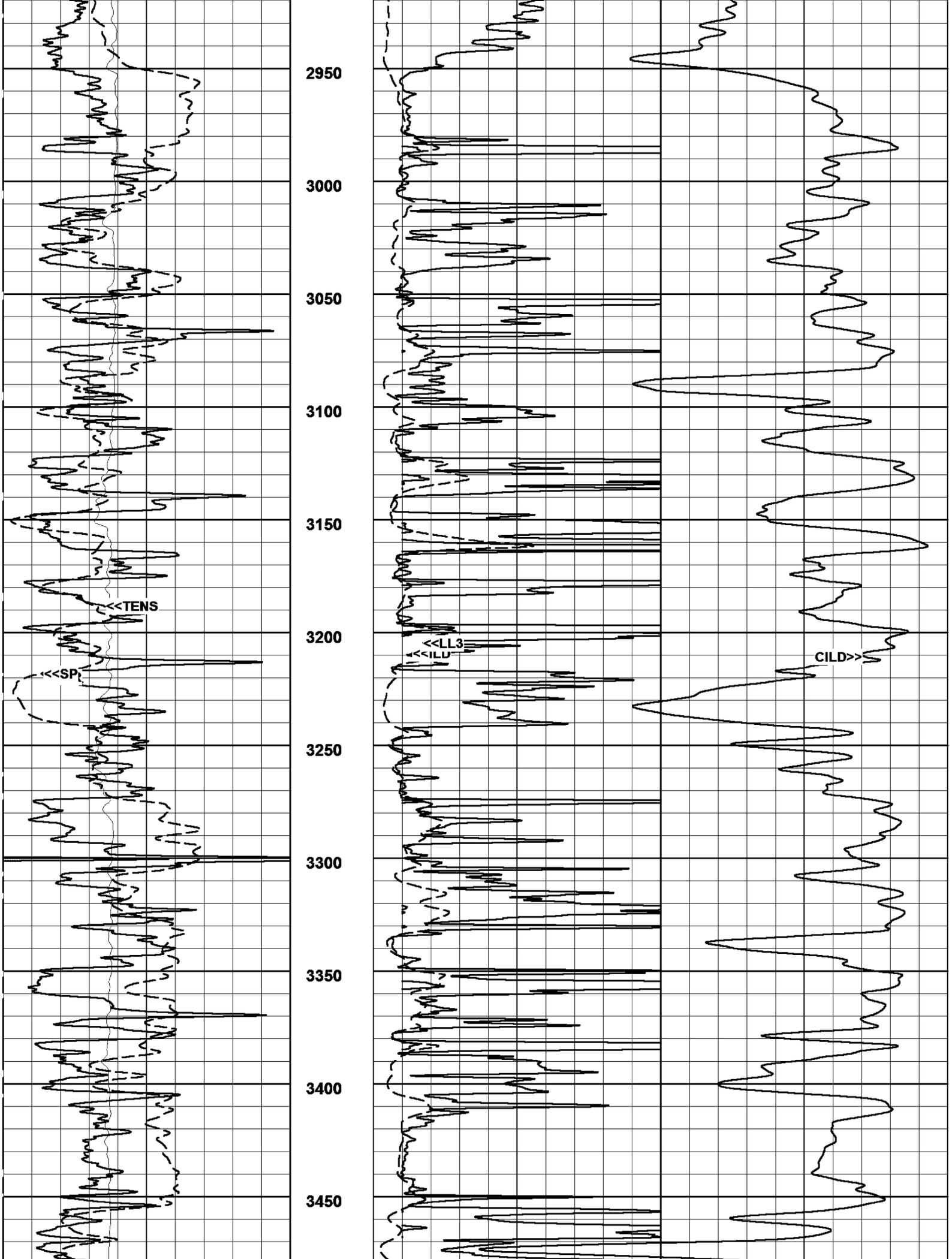
Tool First Reading
Point

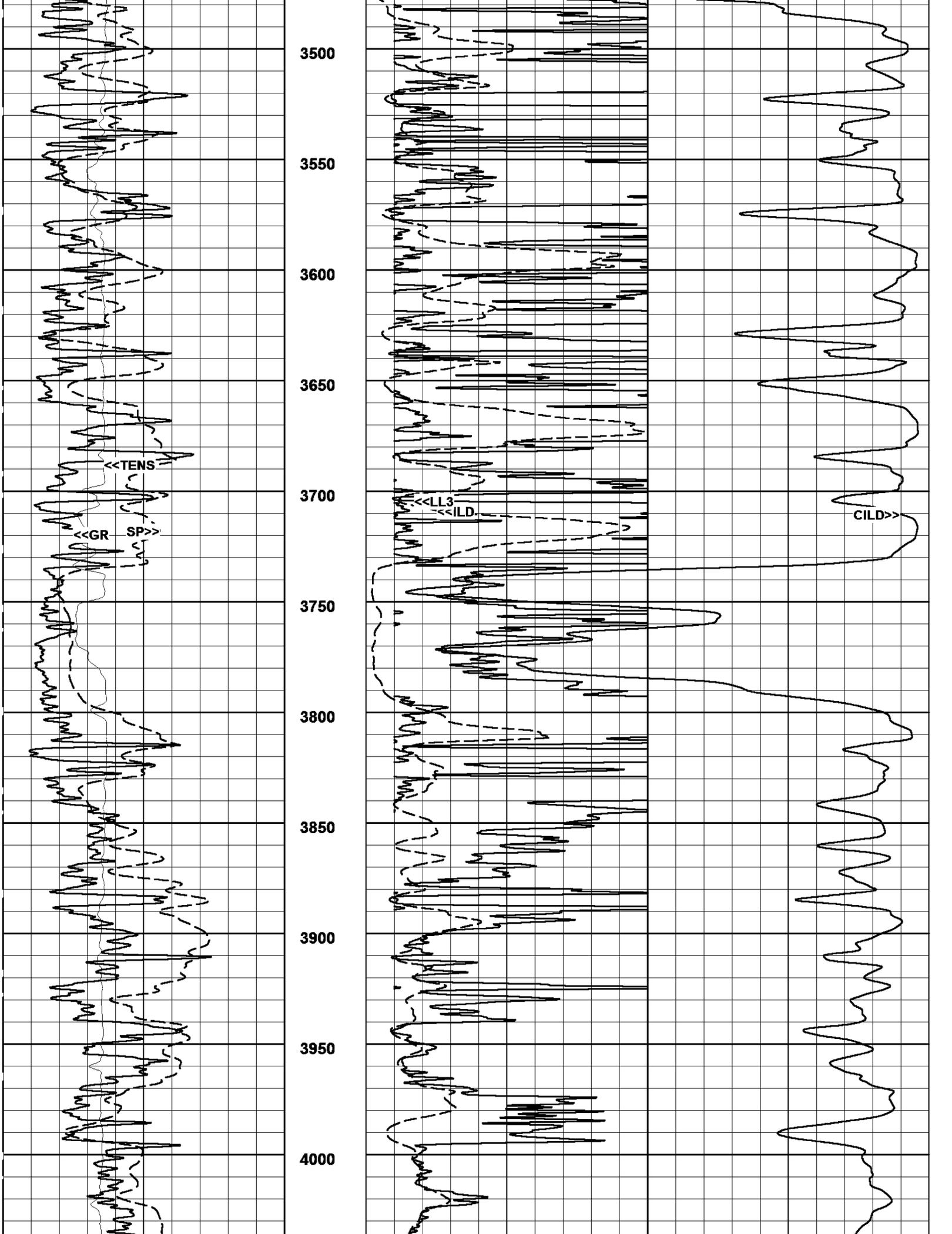
06/25/2014 **MAIN PASS (2"/100Ft)** Log UP - (VER 11.19)
18:36:46 => End Time End Depth=> 1639.75 Feet

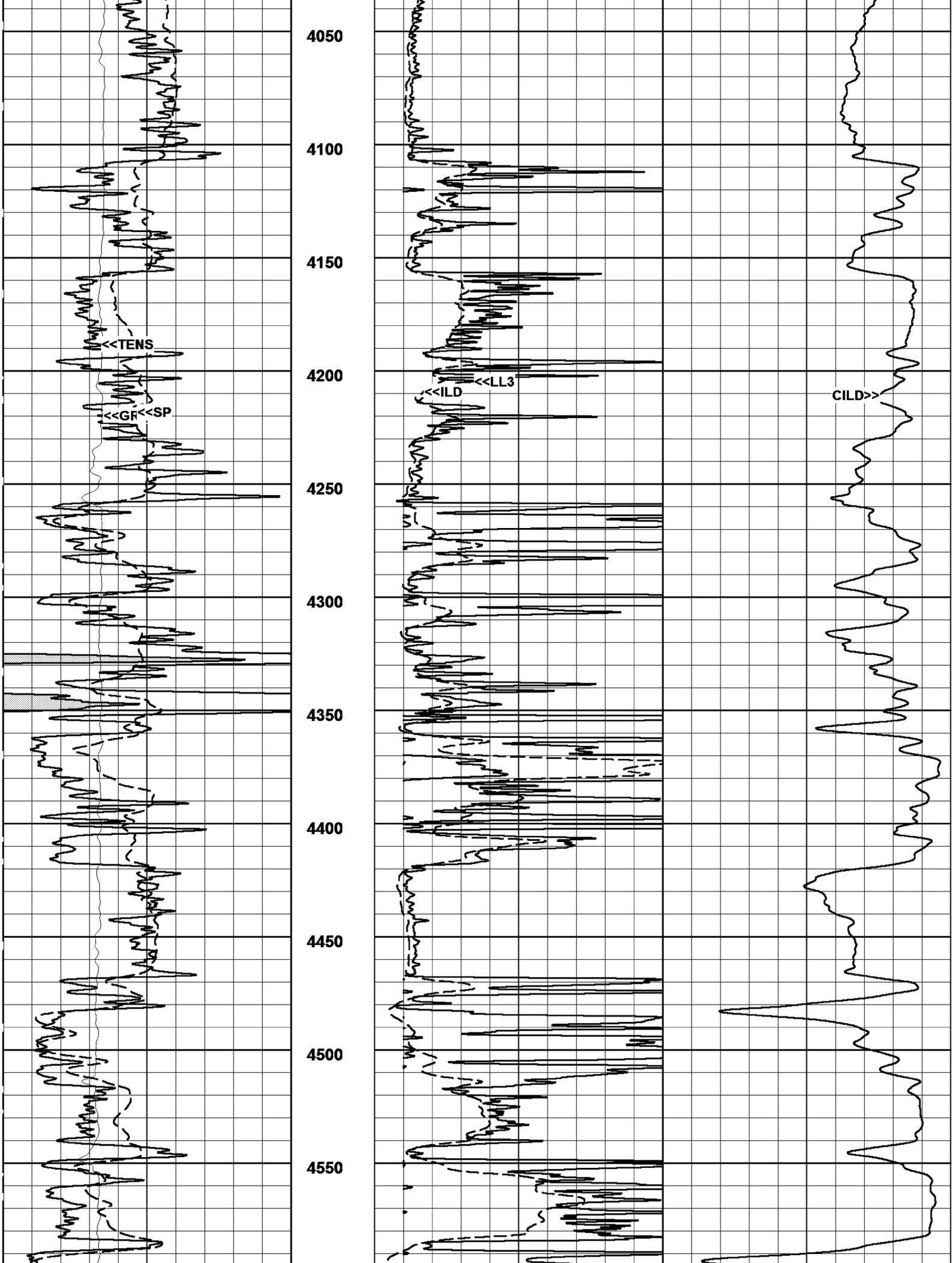


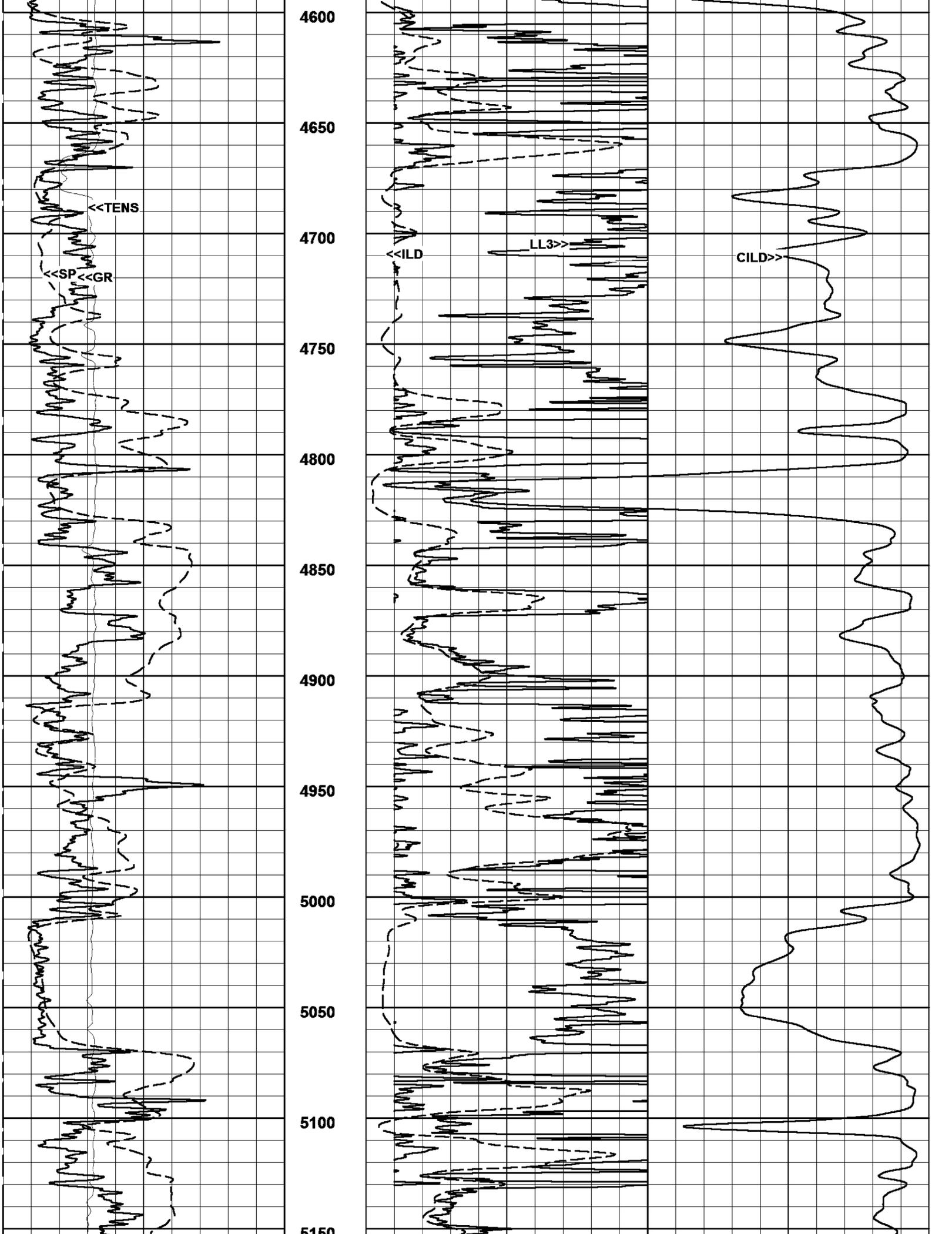


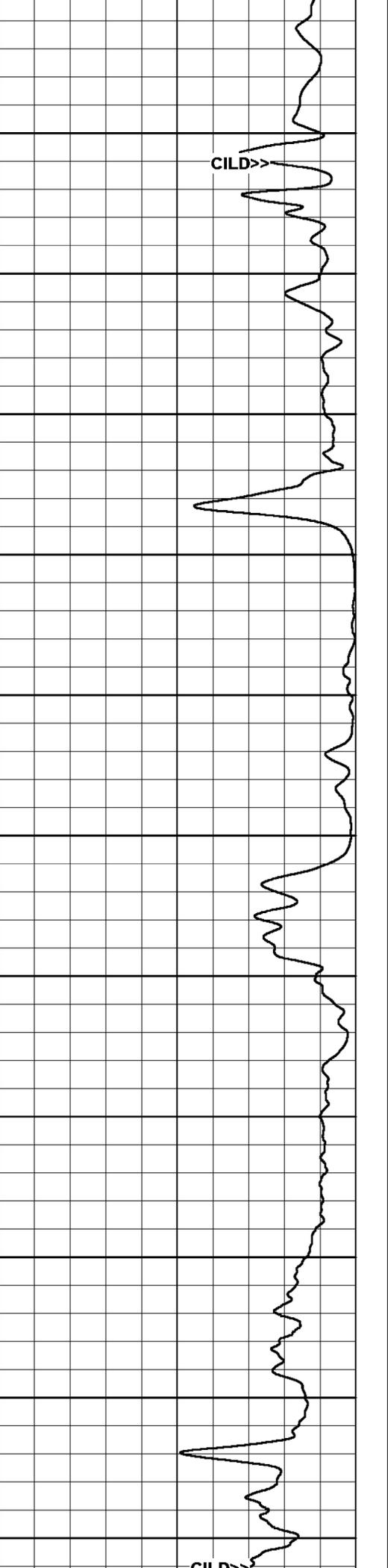
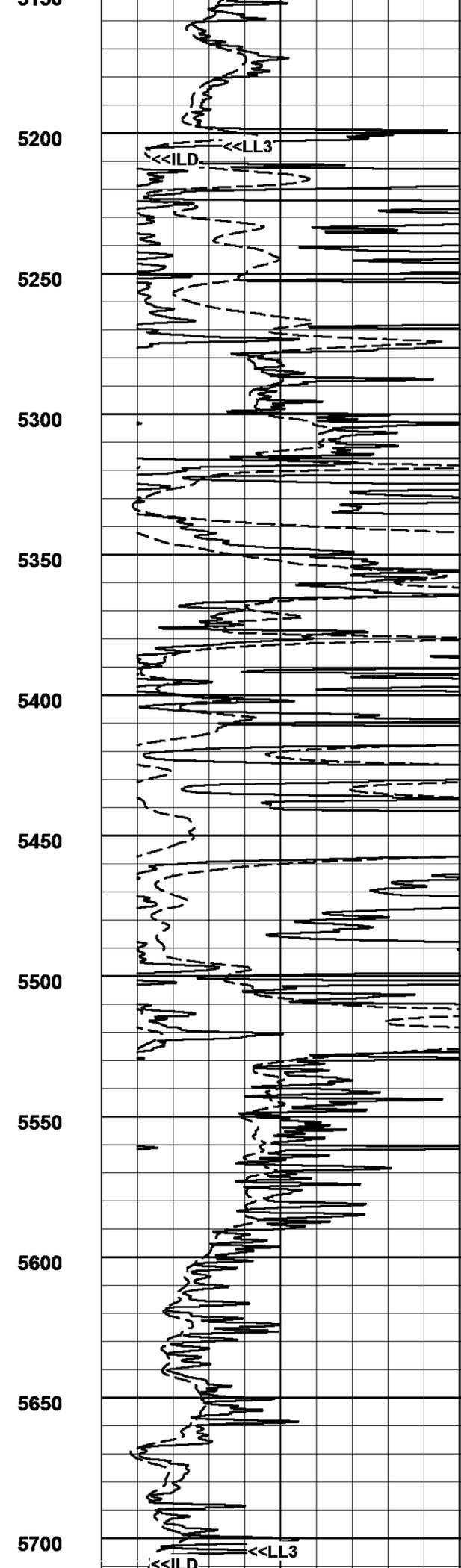
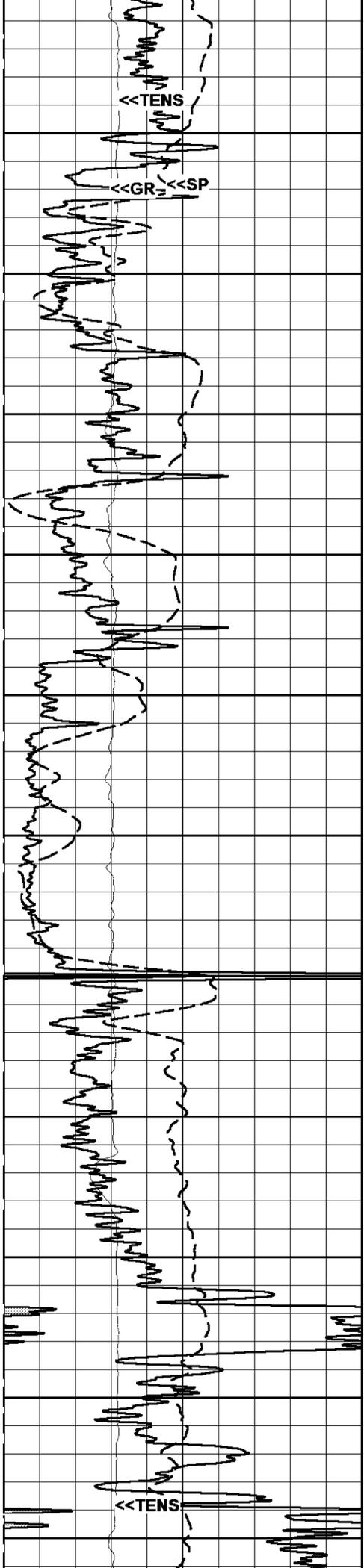


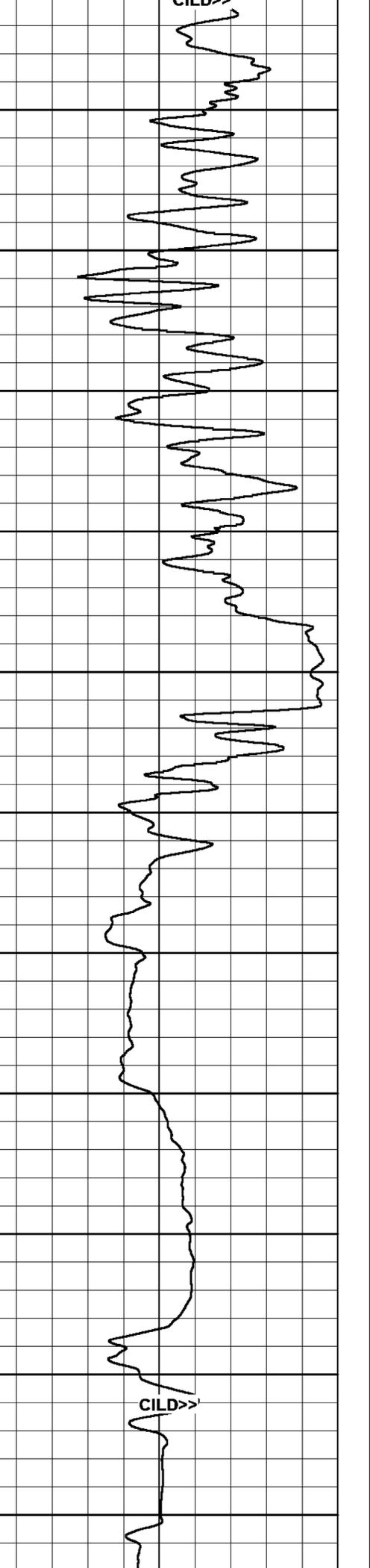
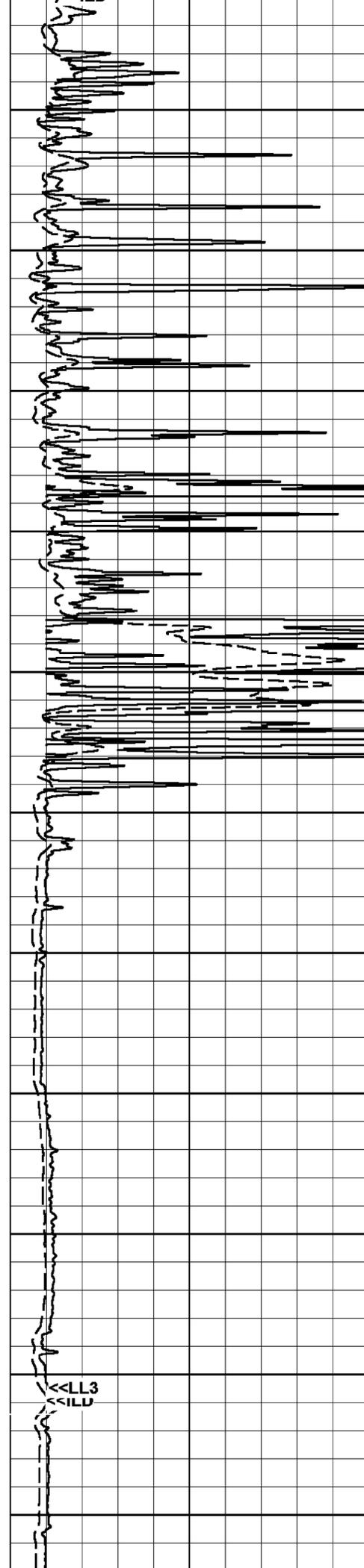
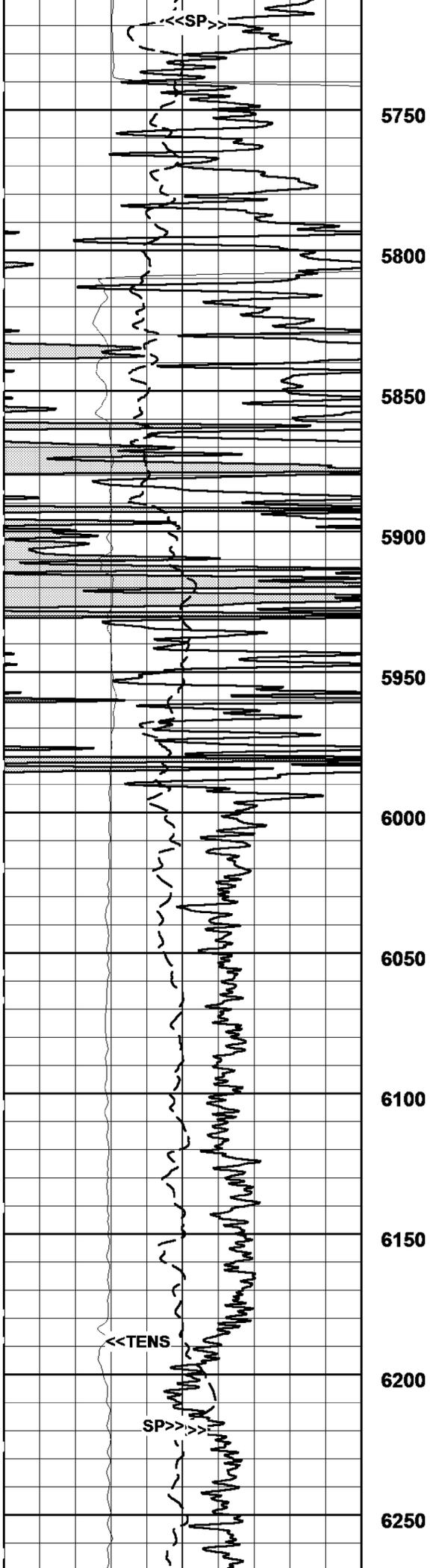


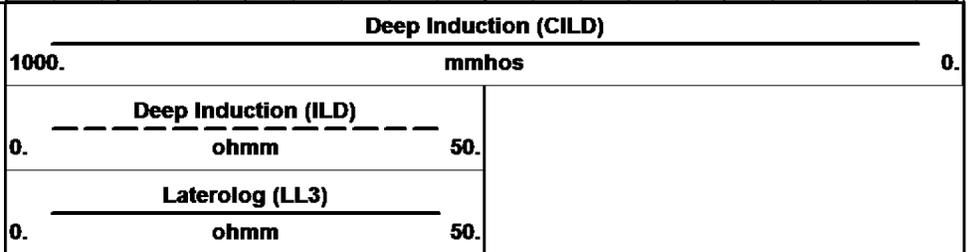
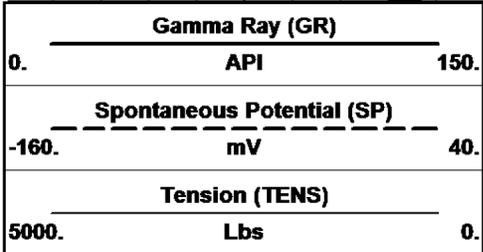
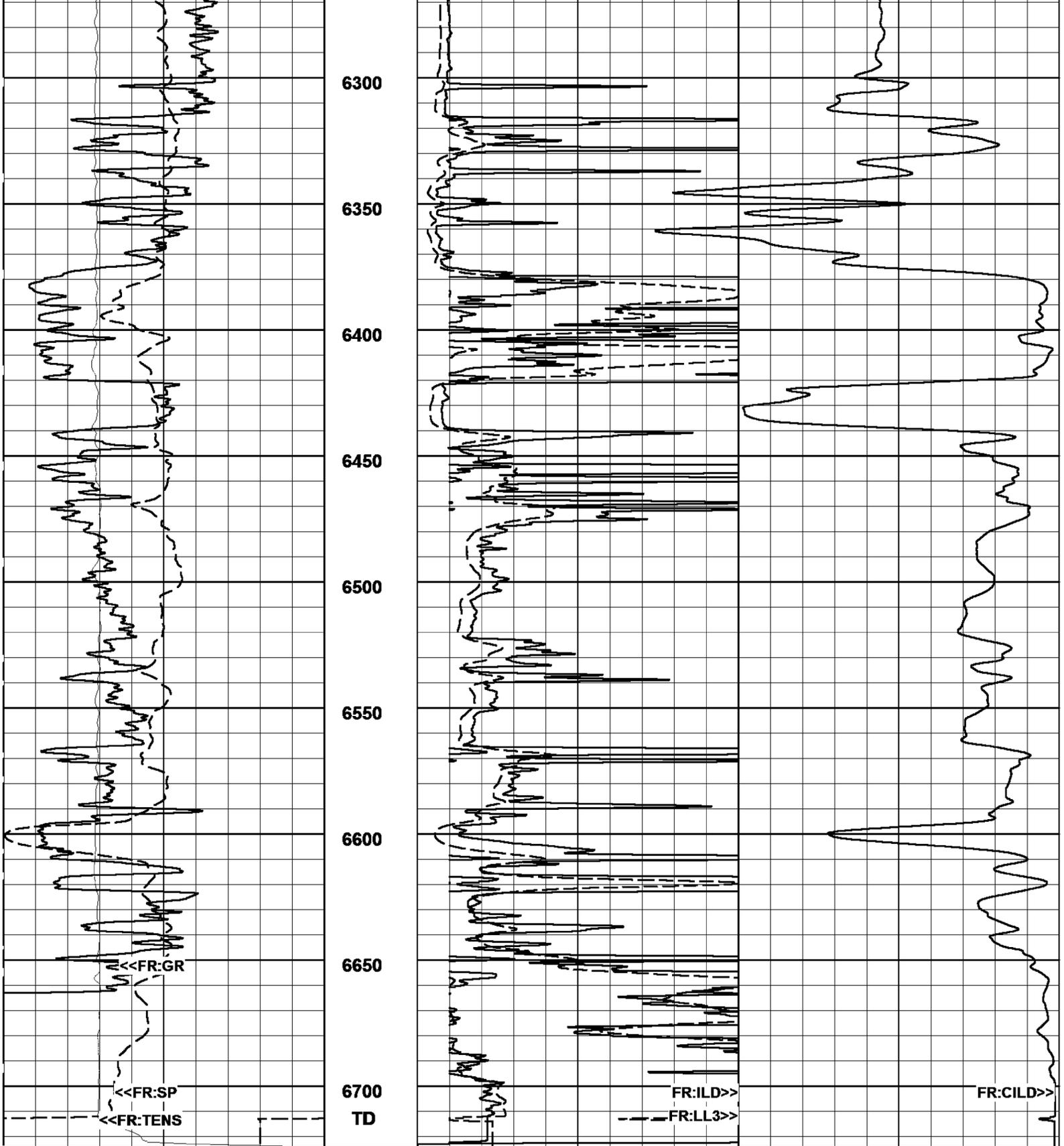


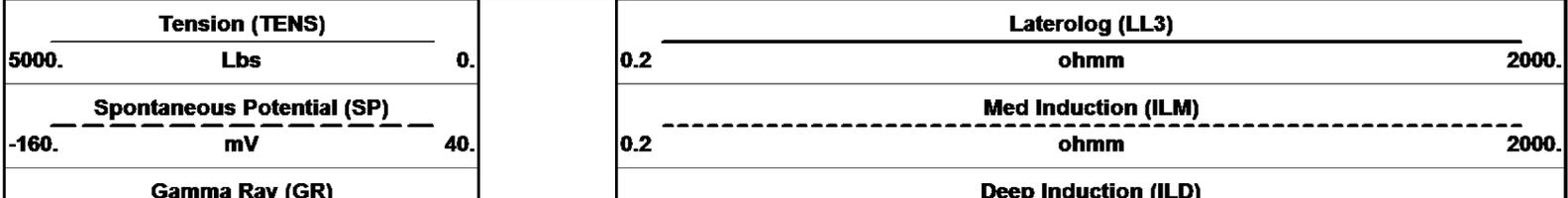
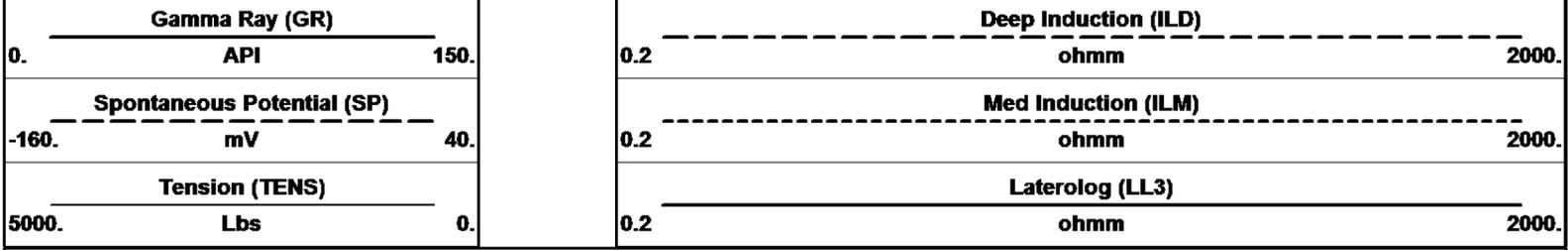
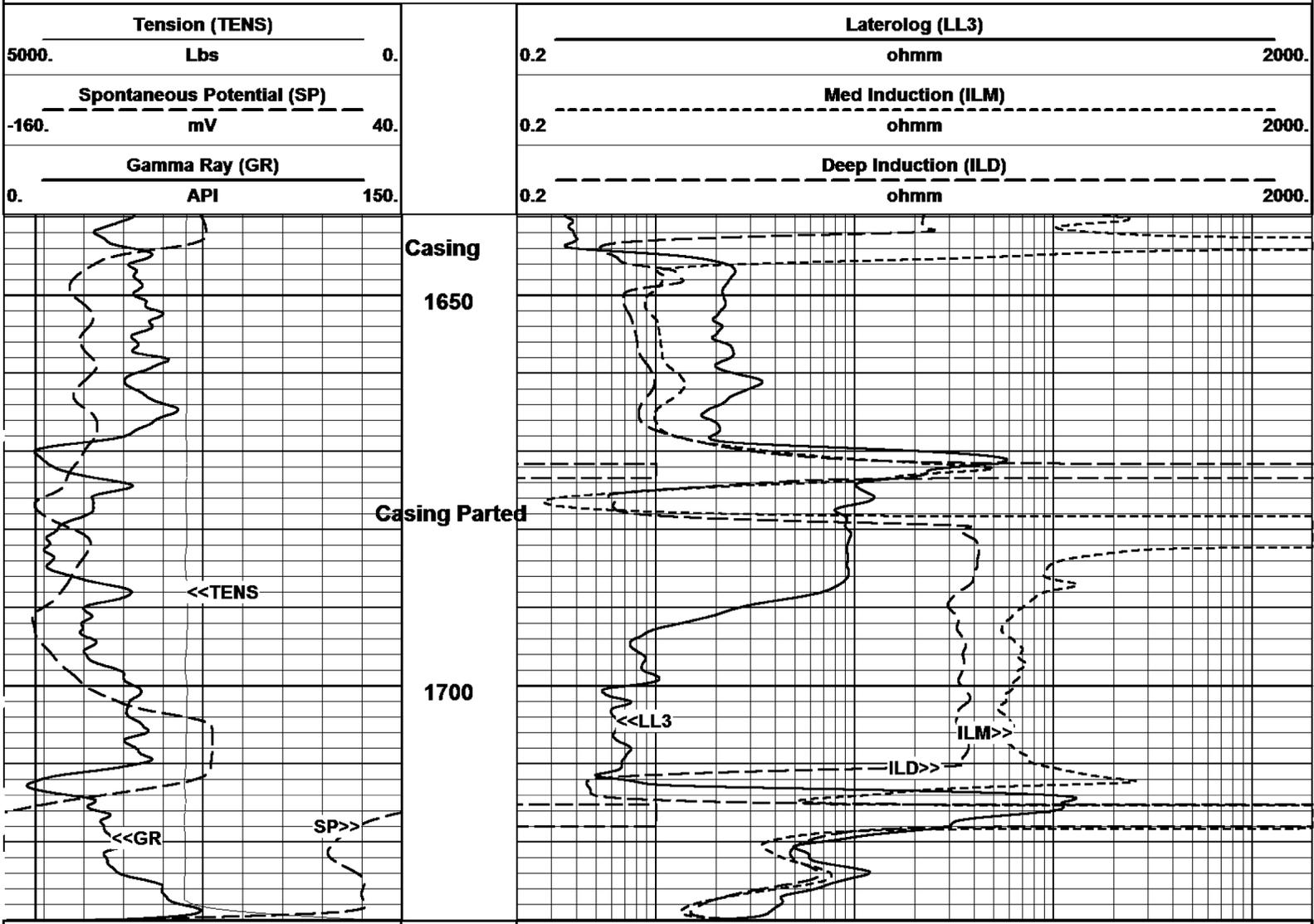






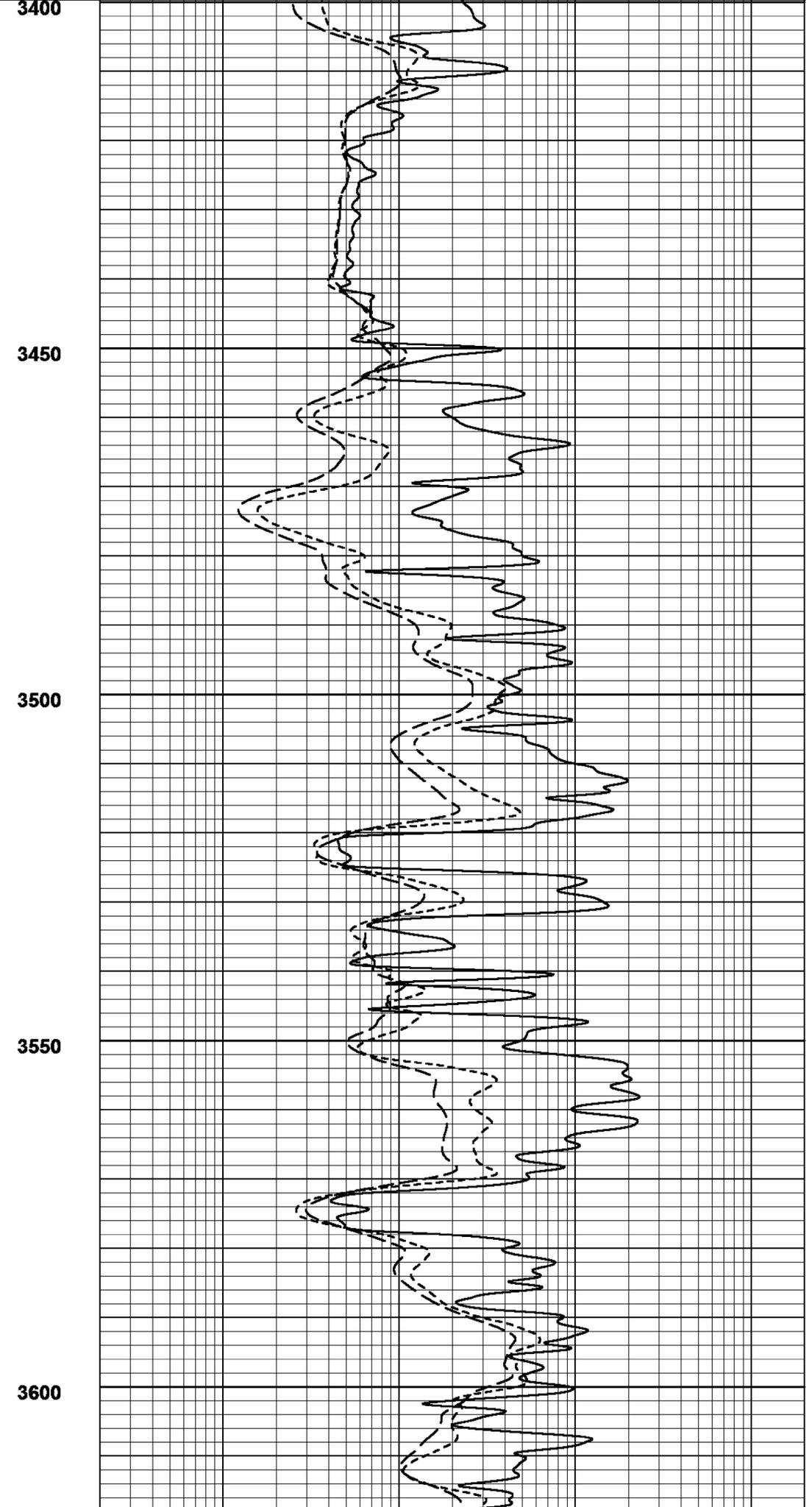
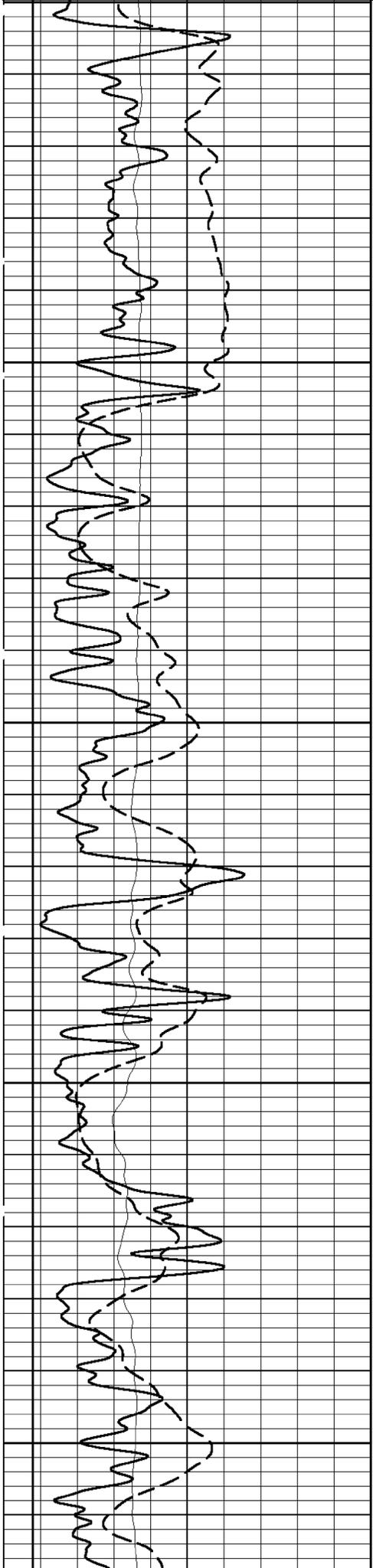


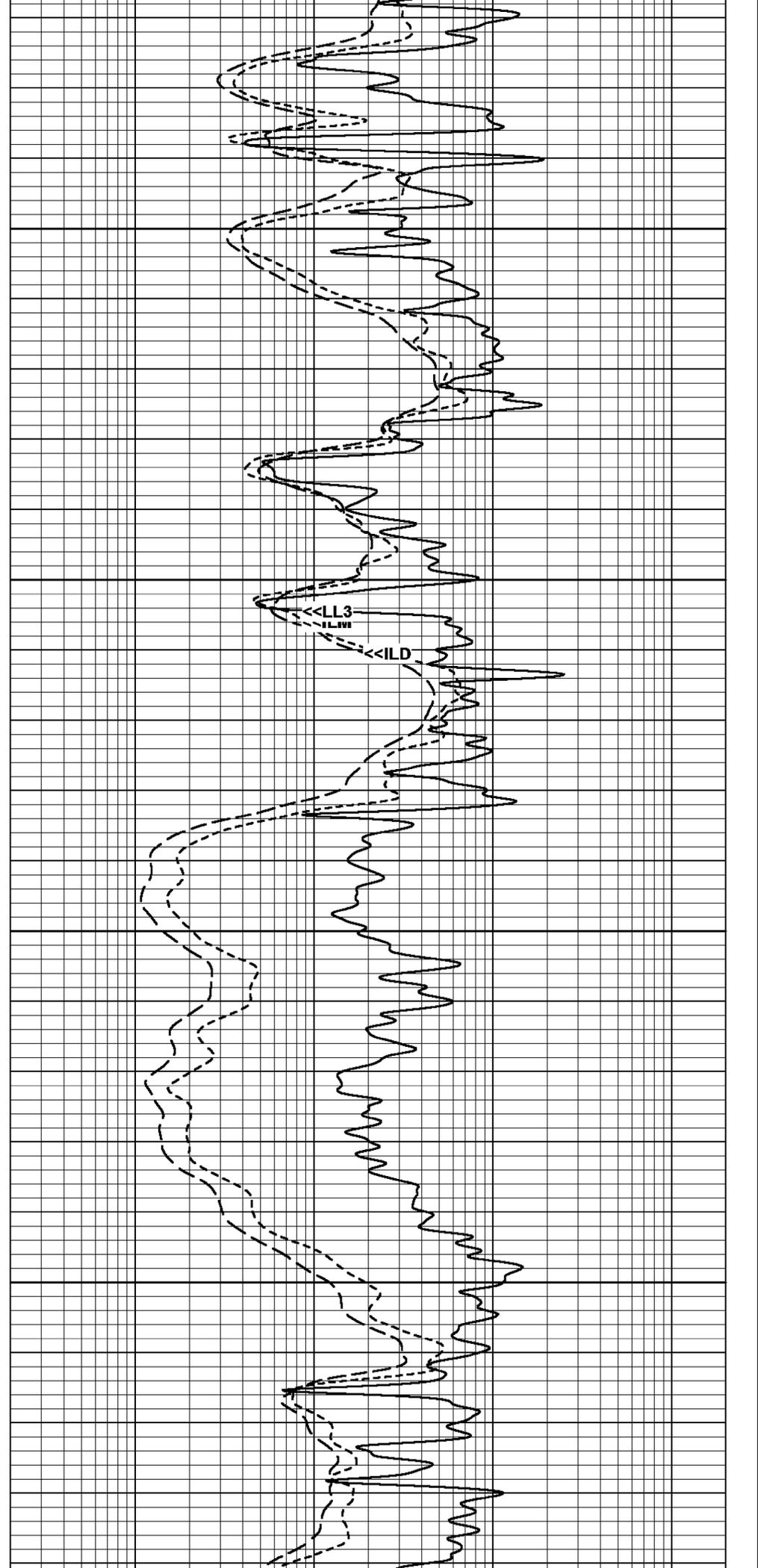
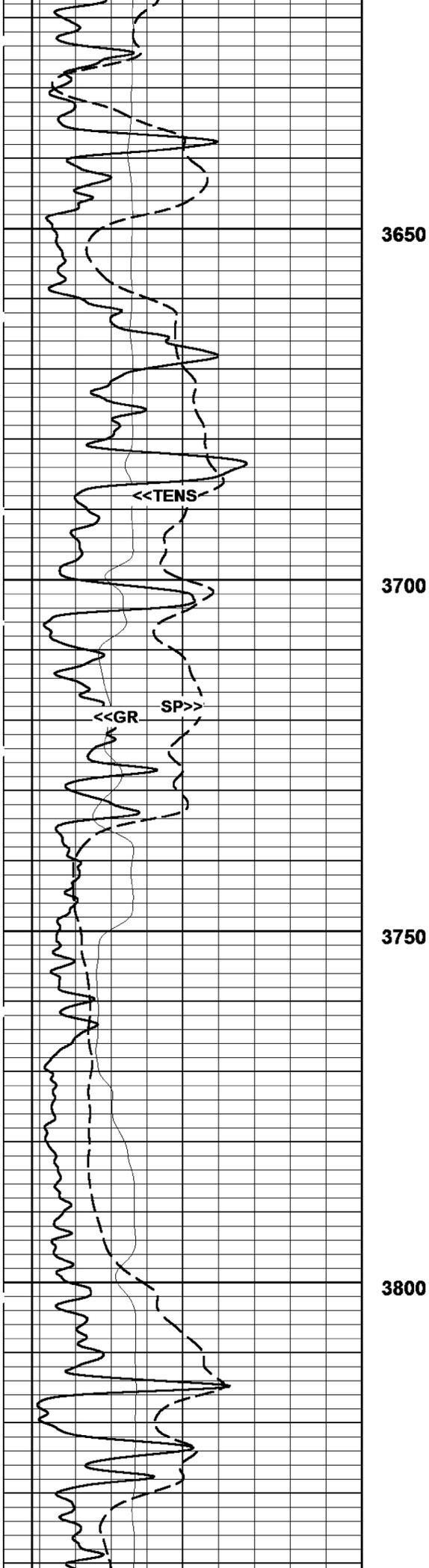


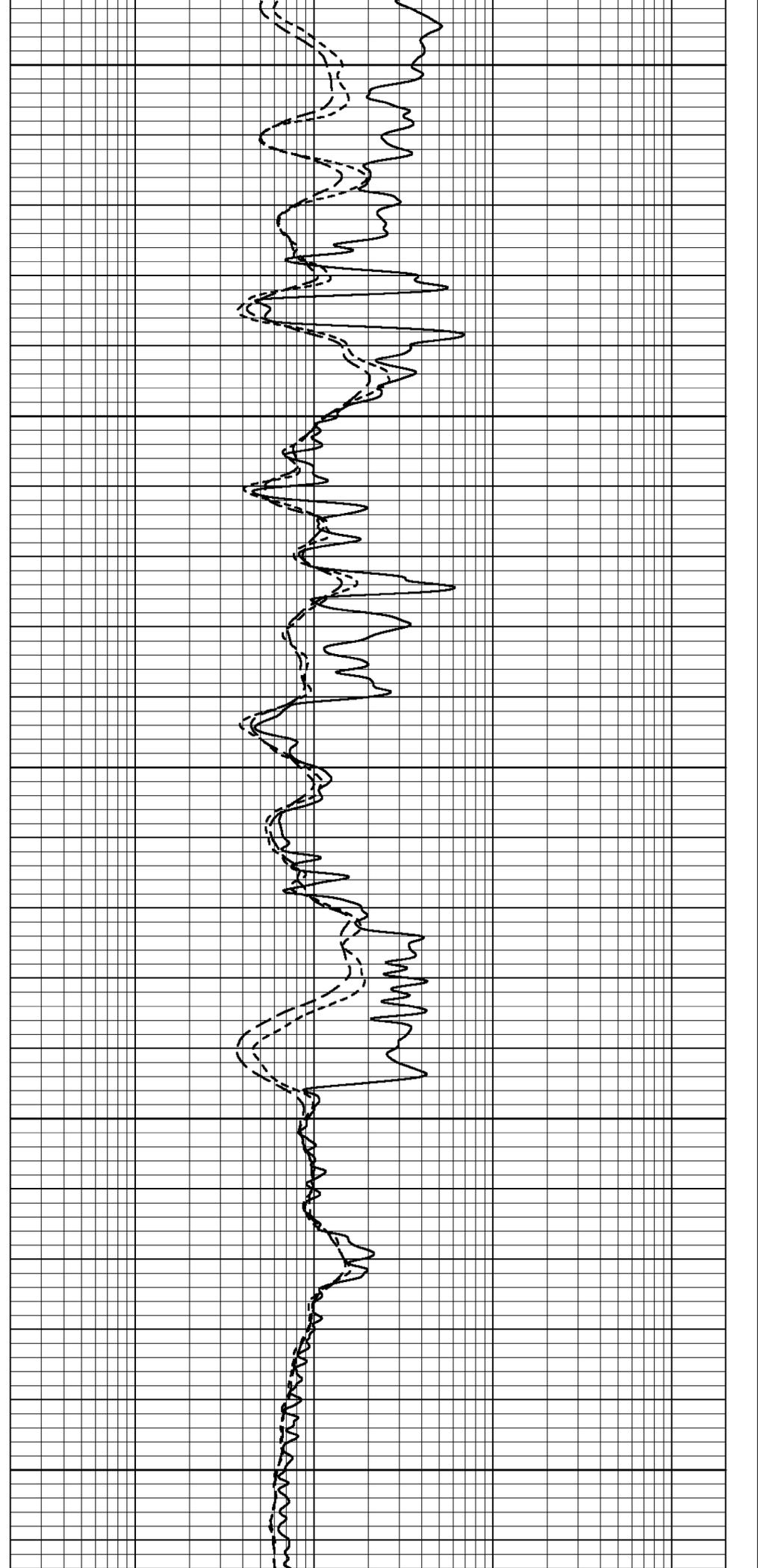
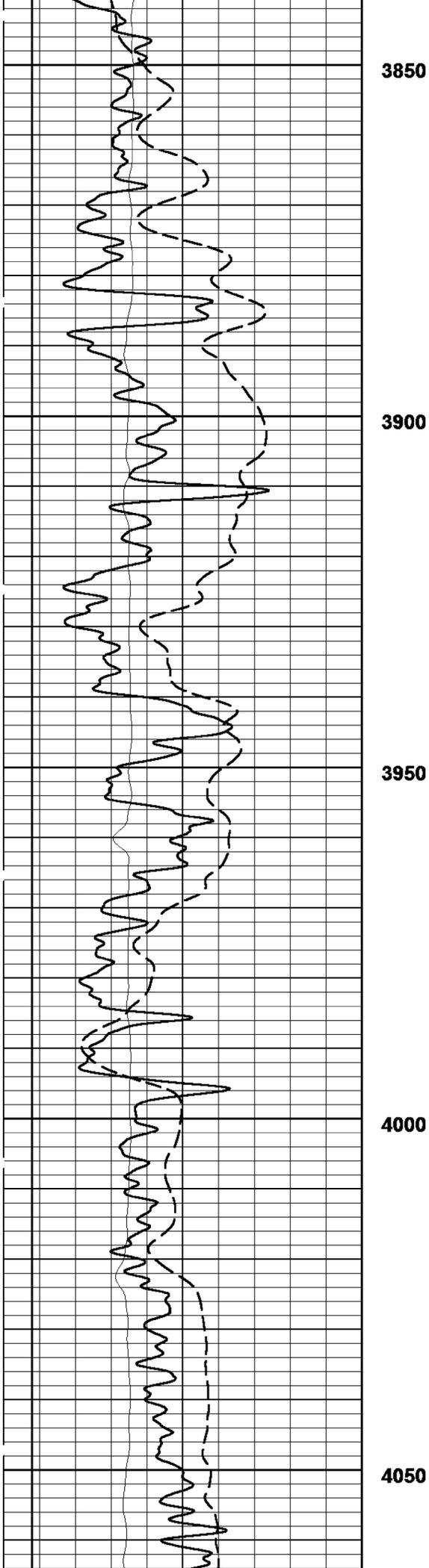


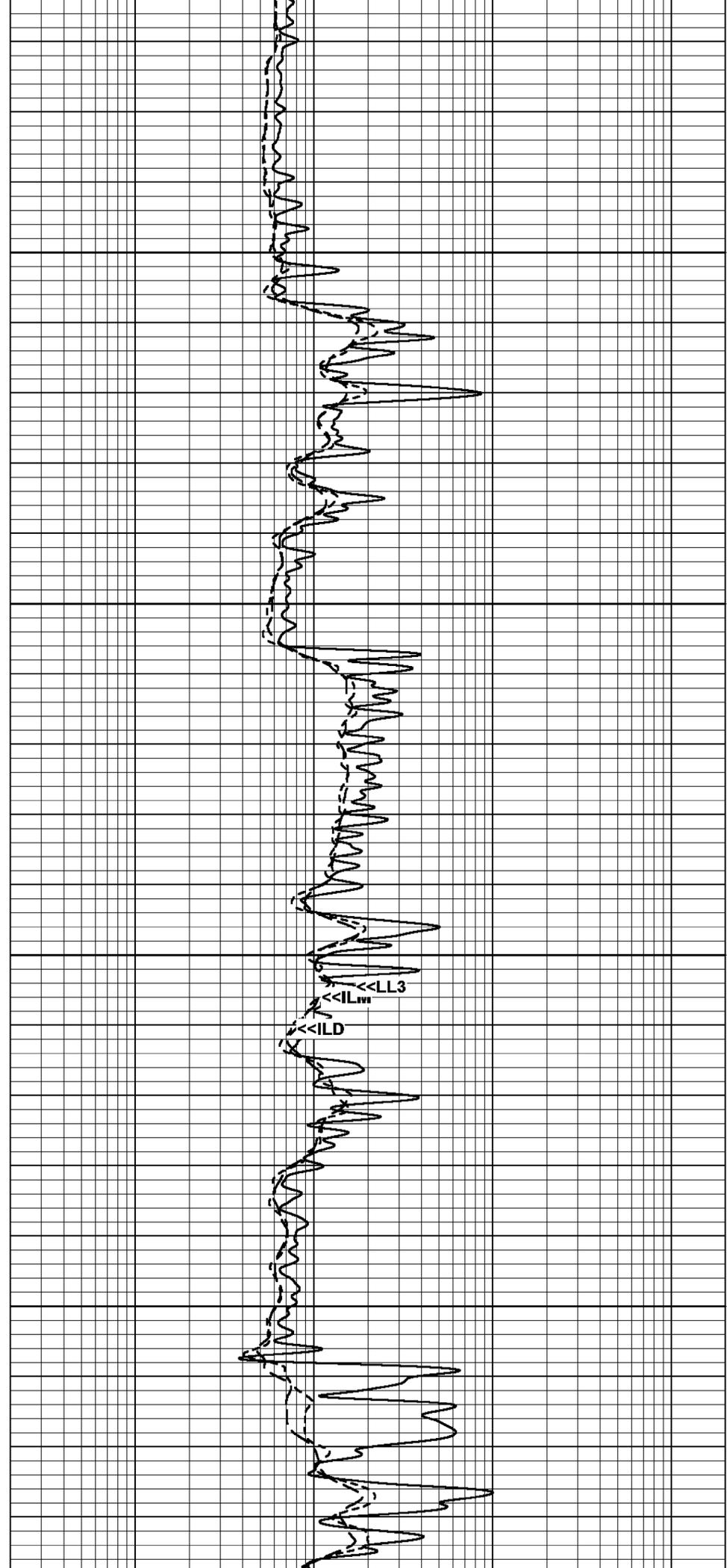
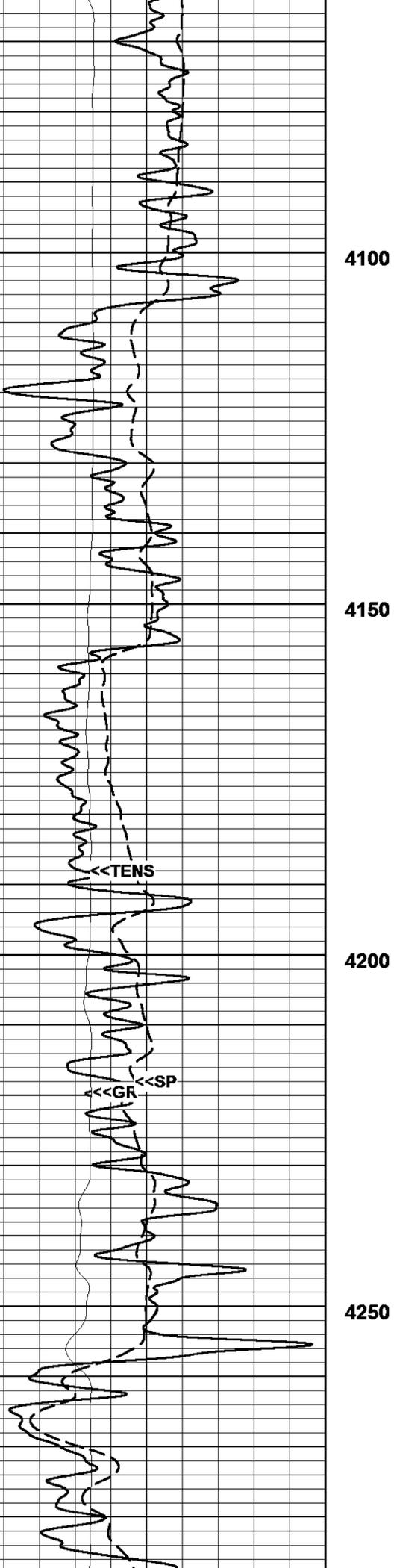
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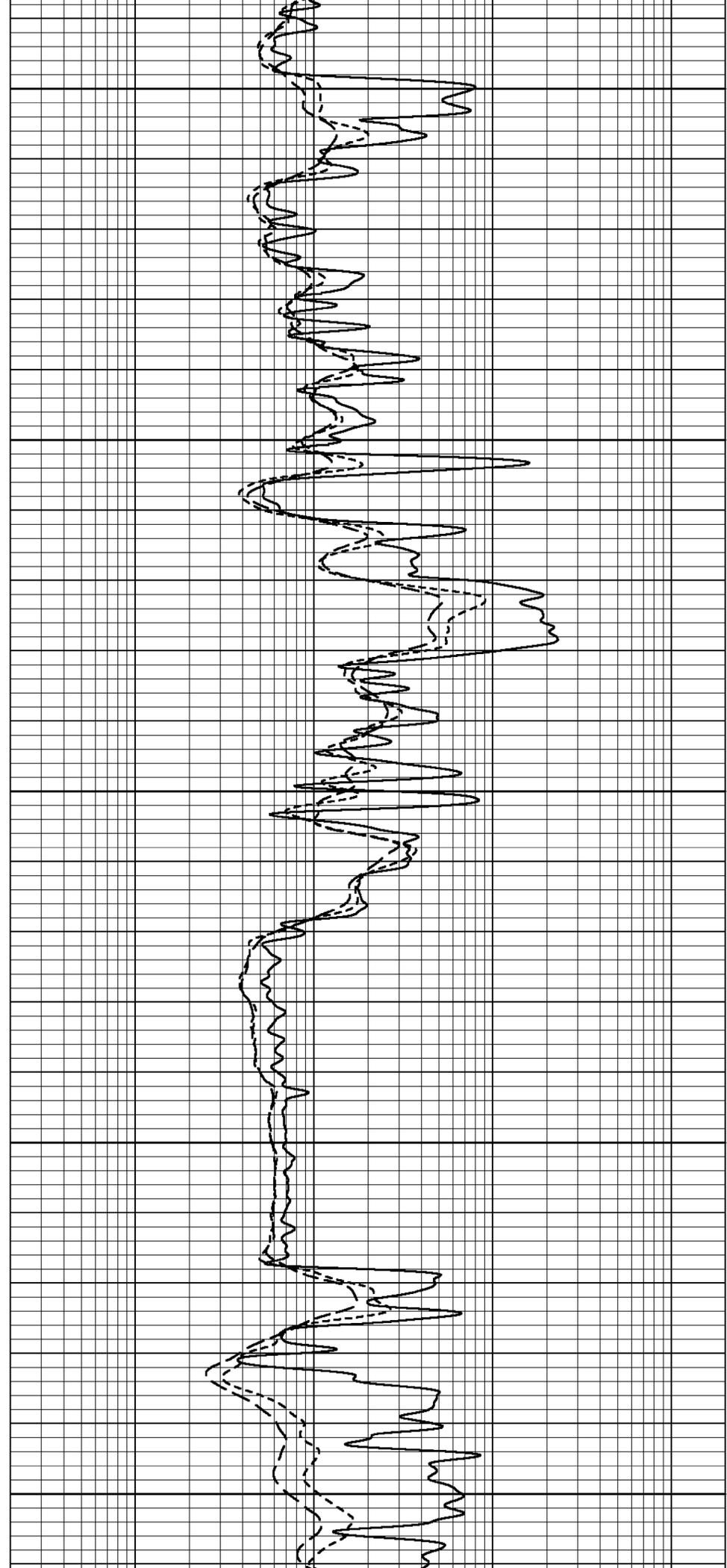
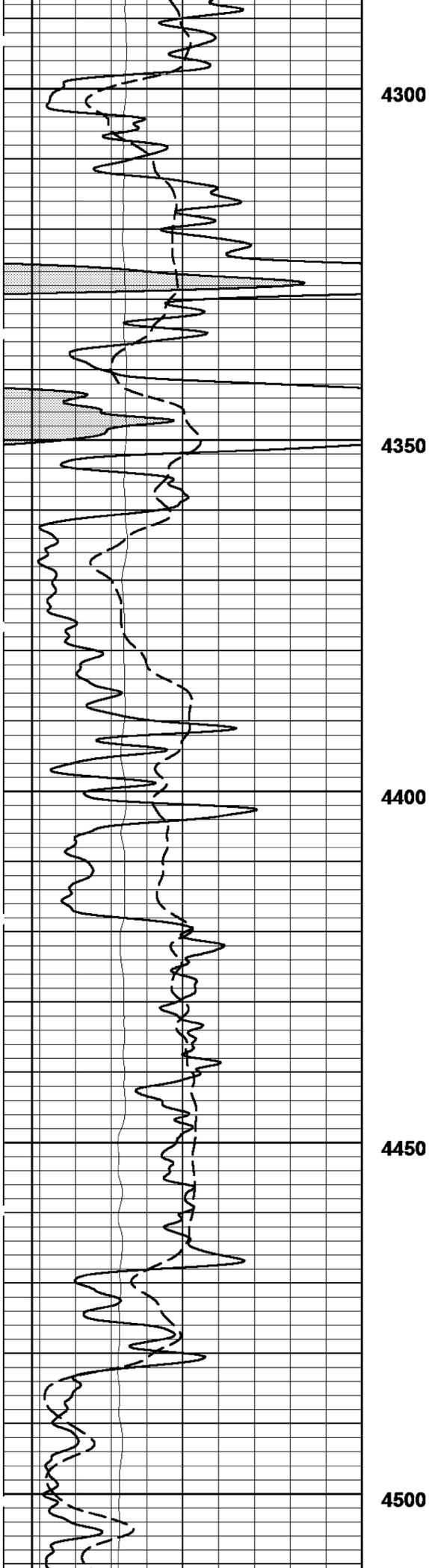
0.2 ohmm 2000.

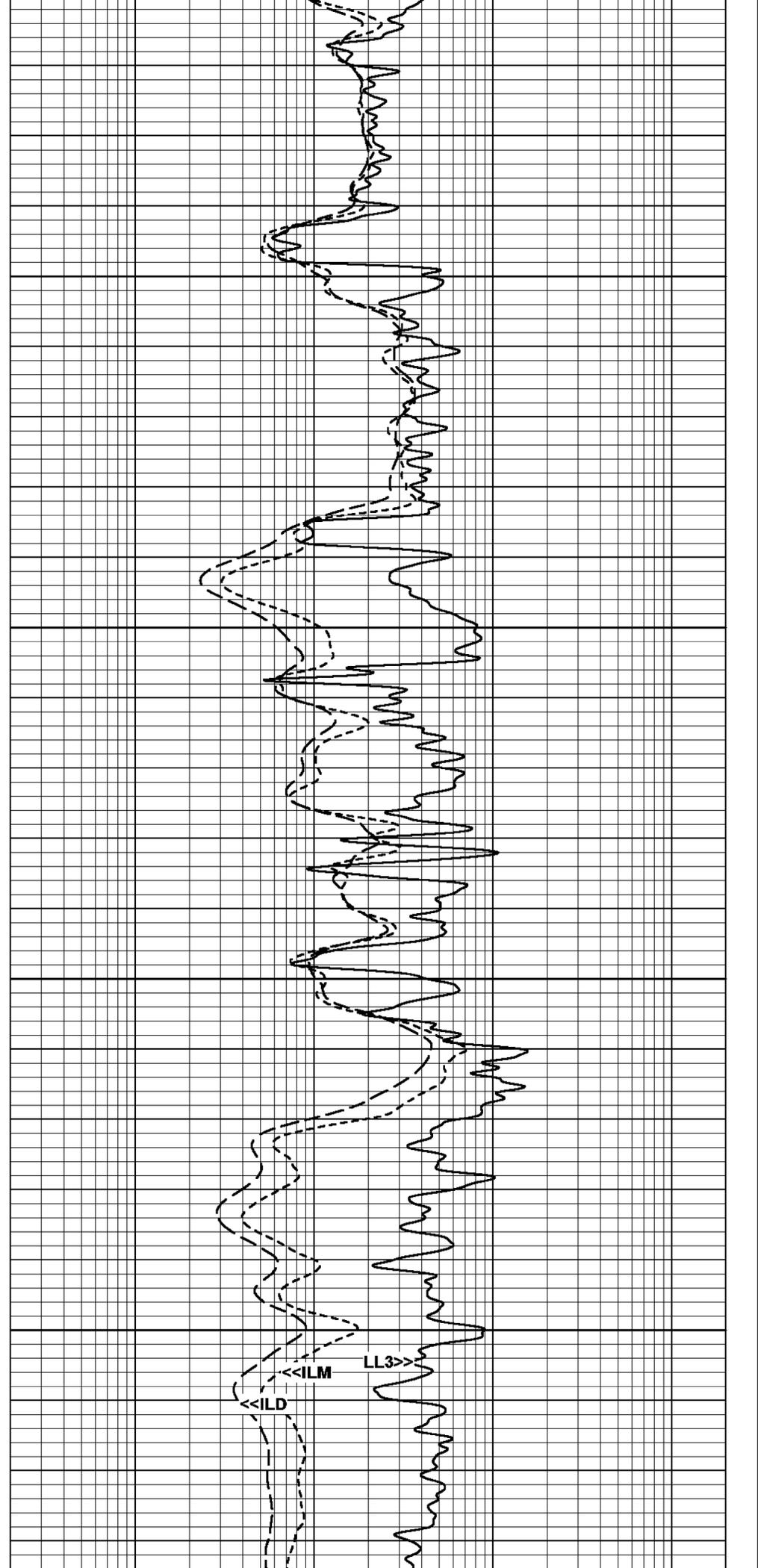
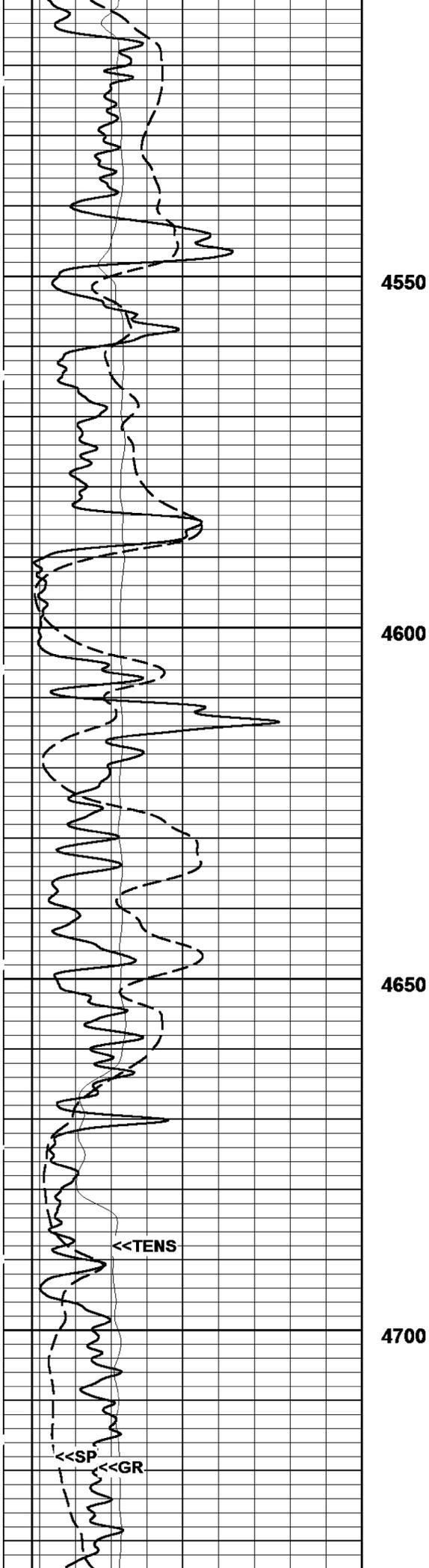


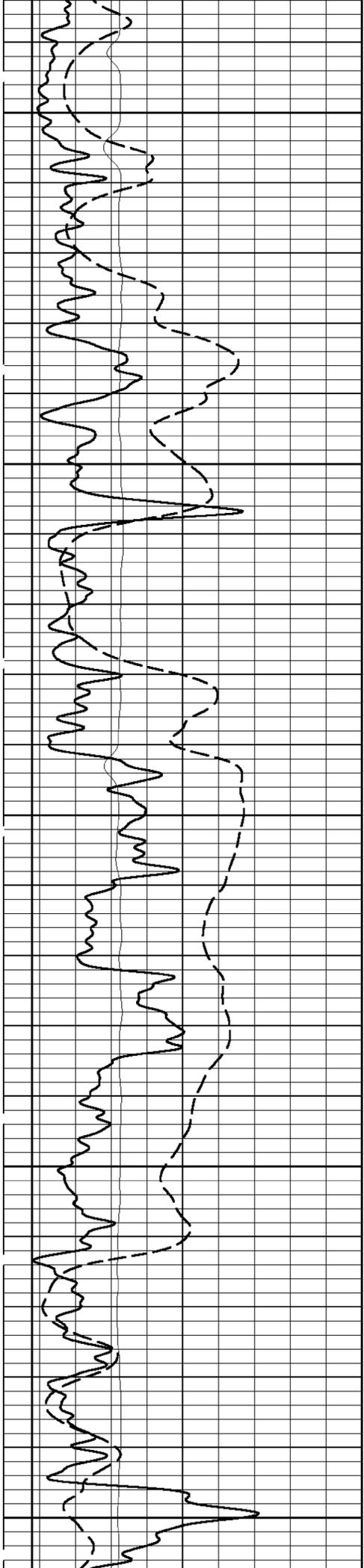












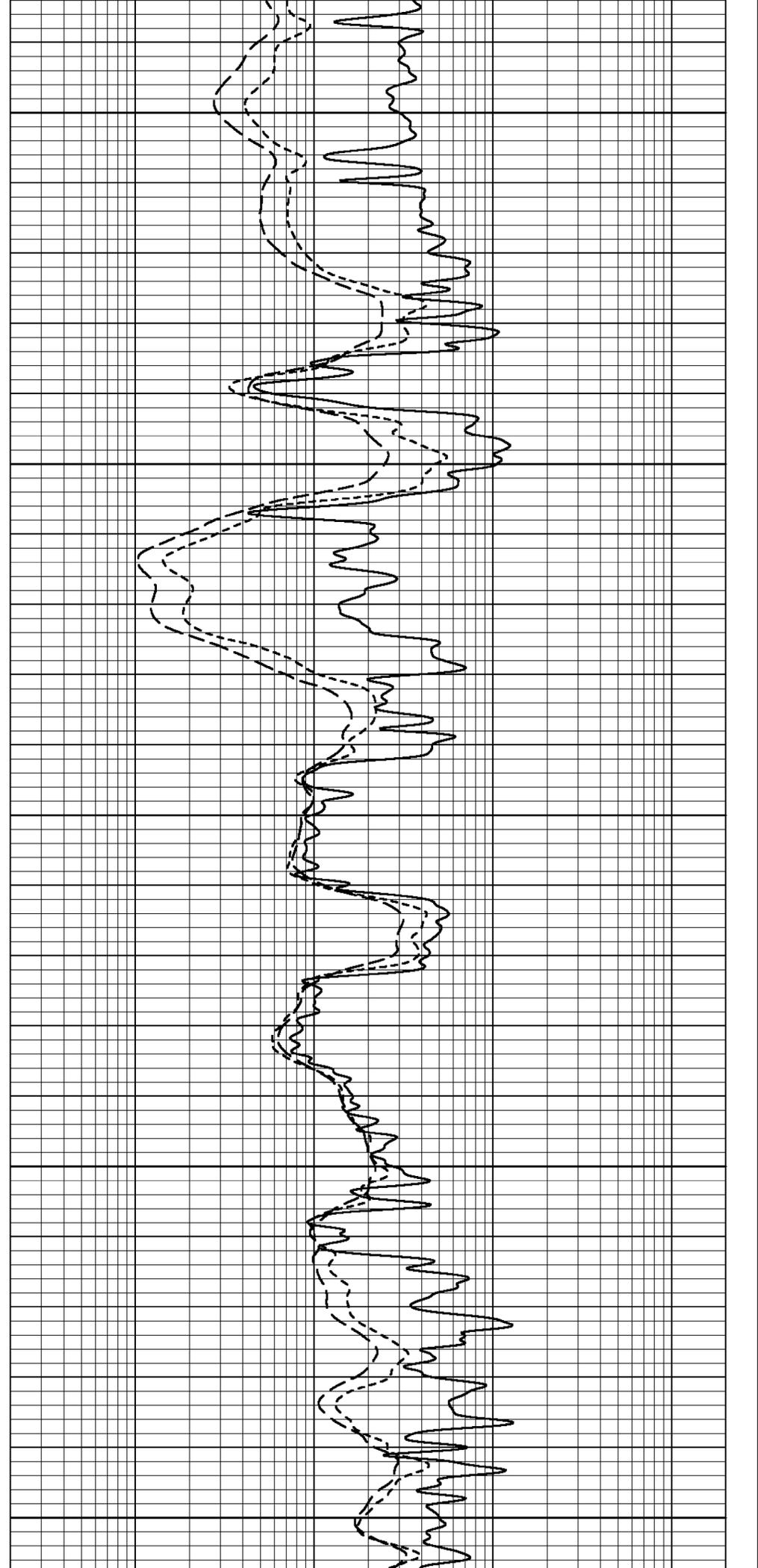
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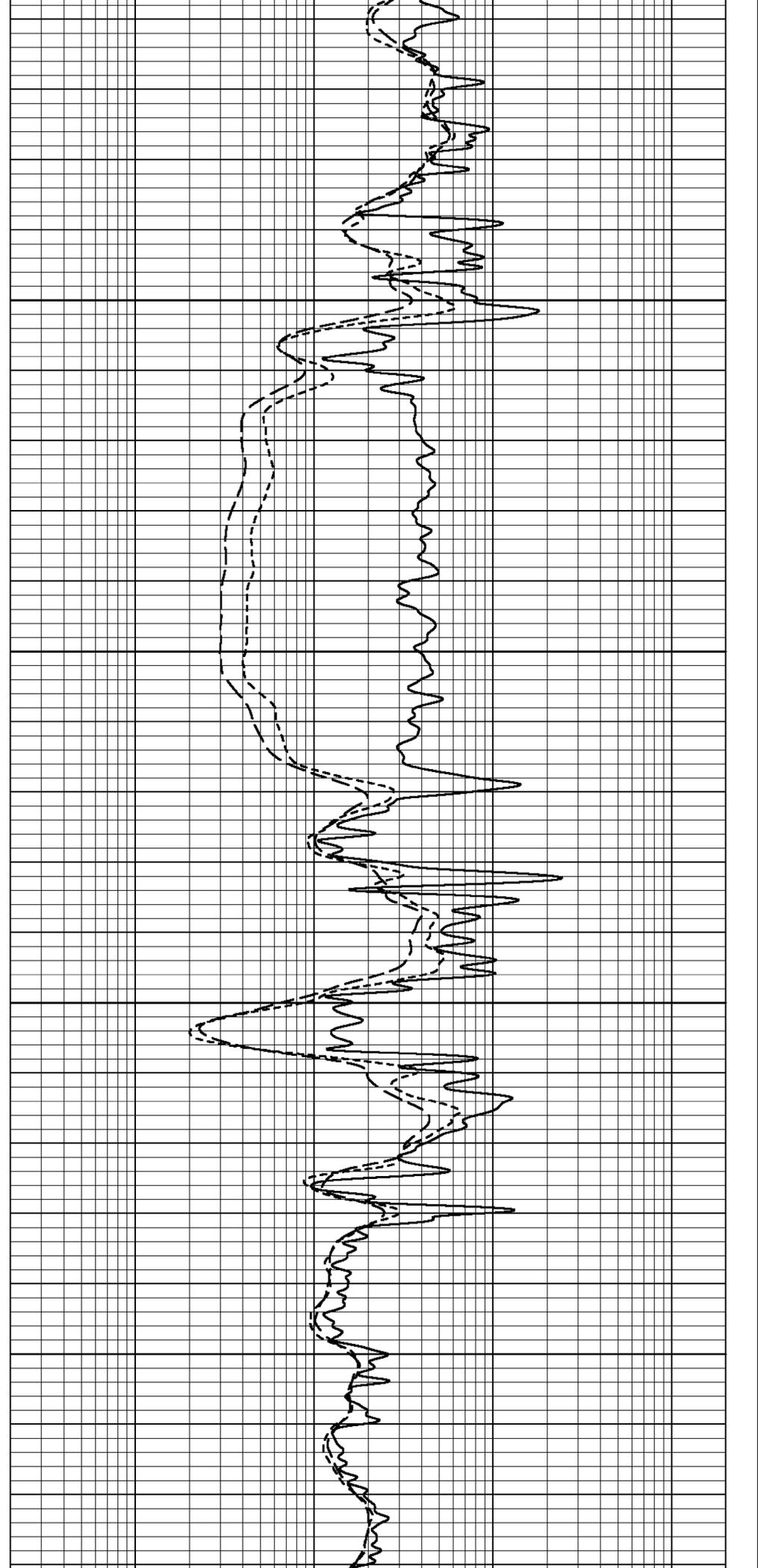
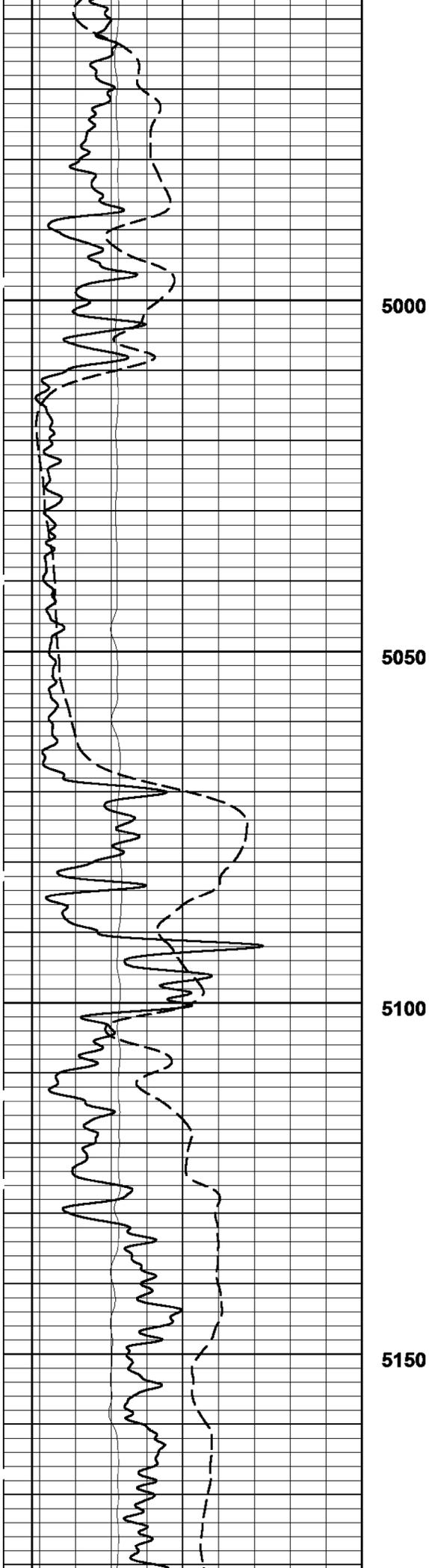
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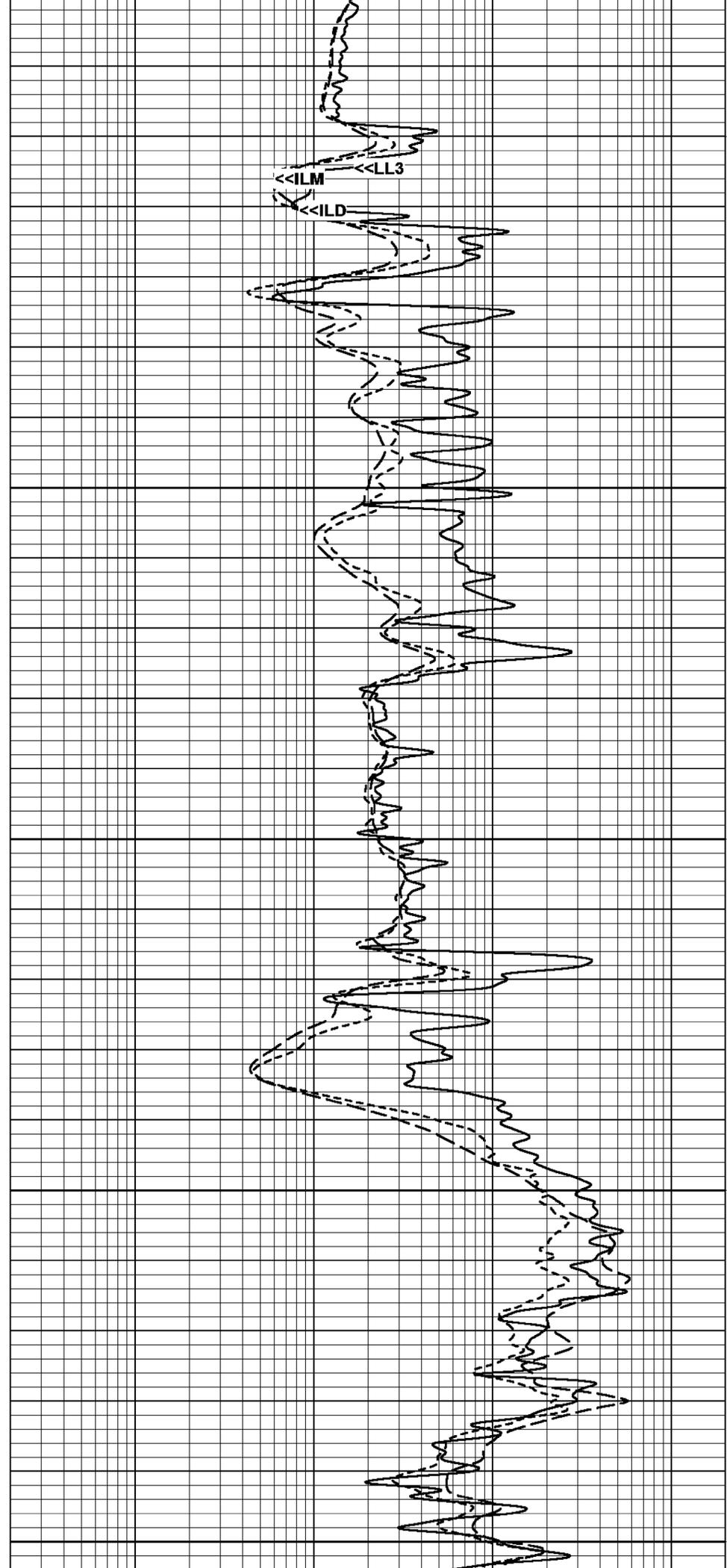
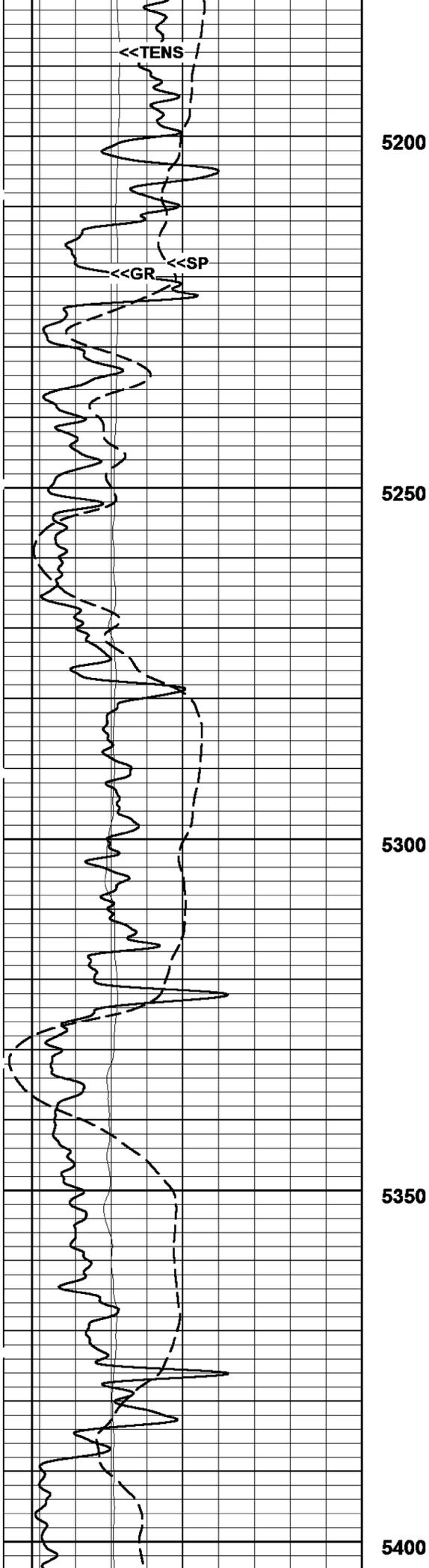
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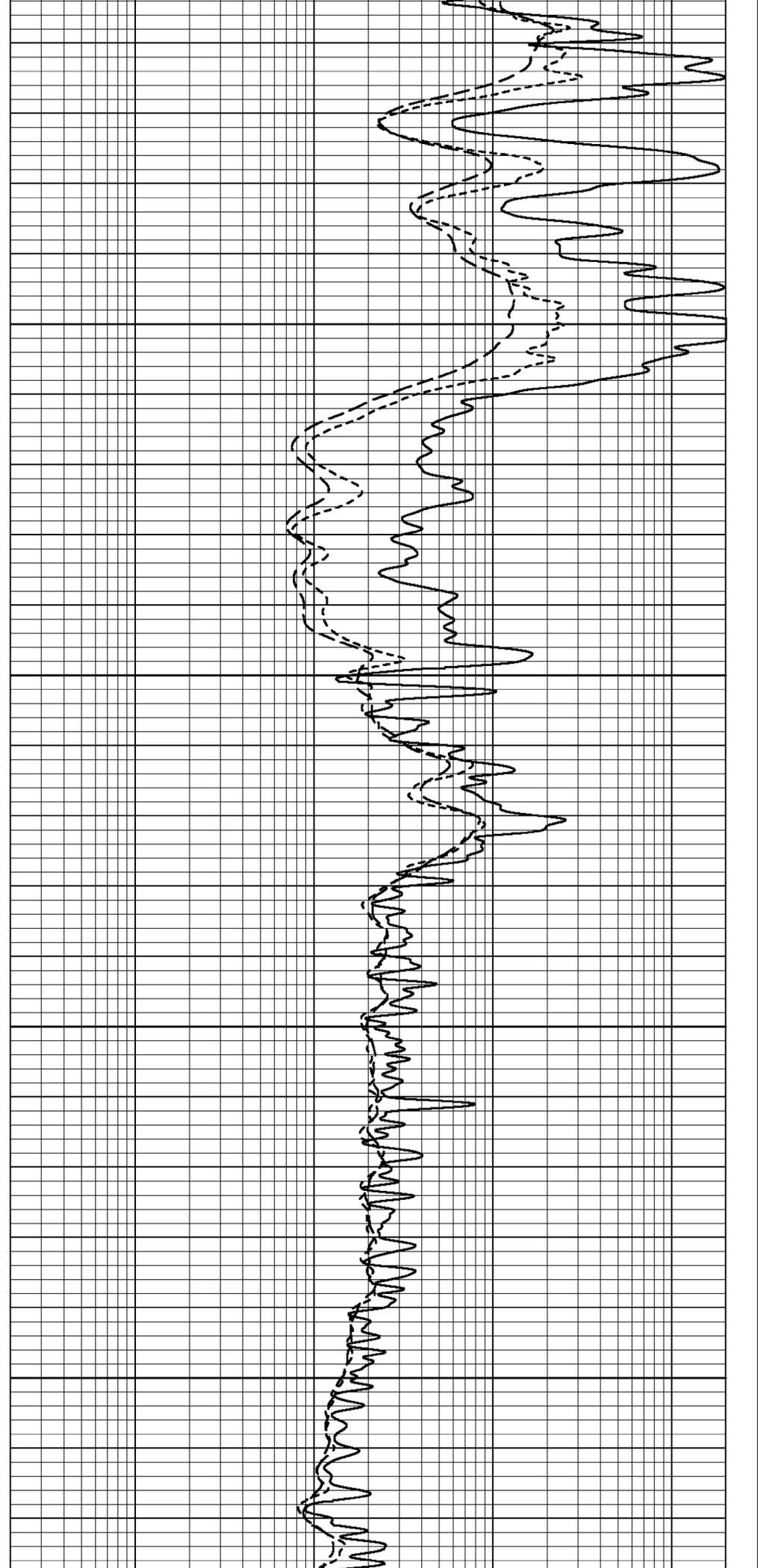
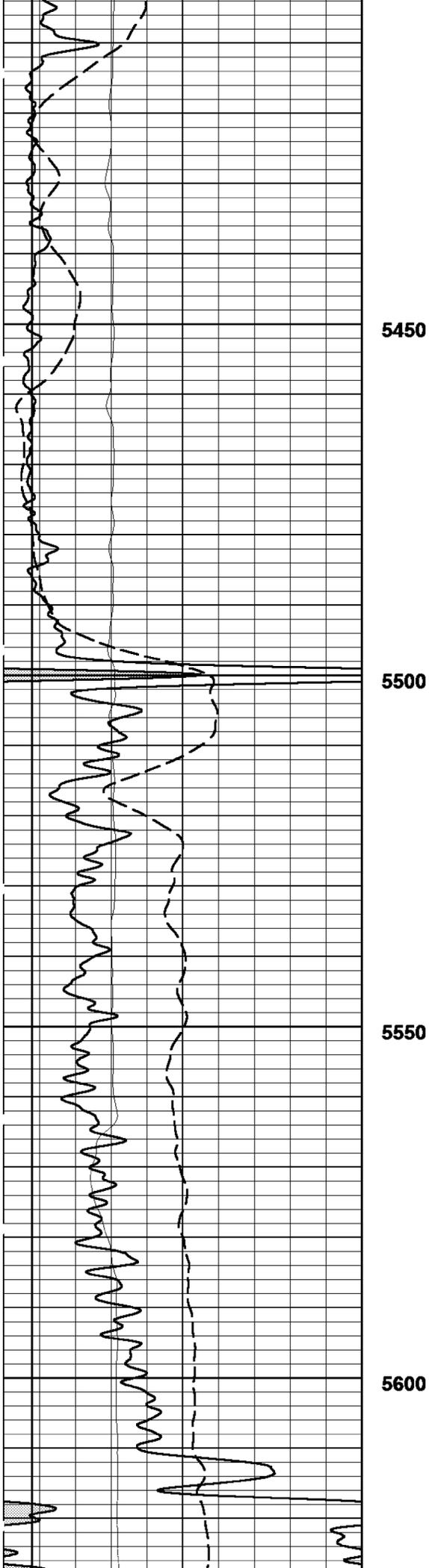
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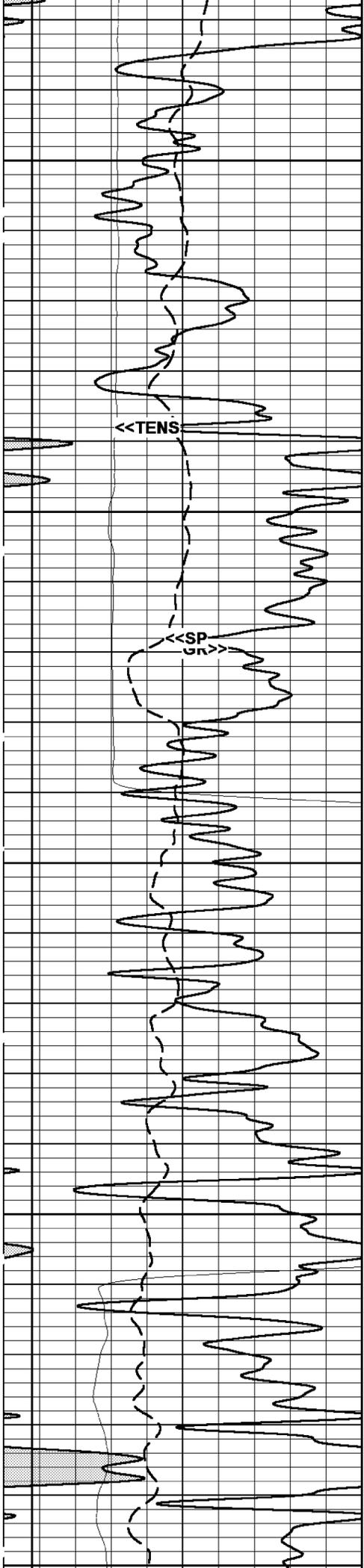
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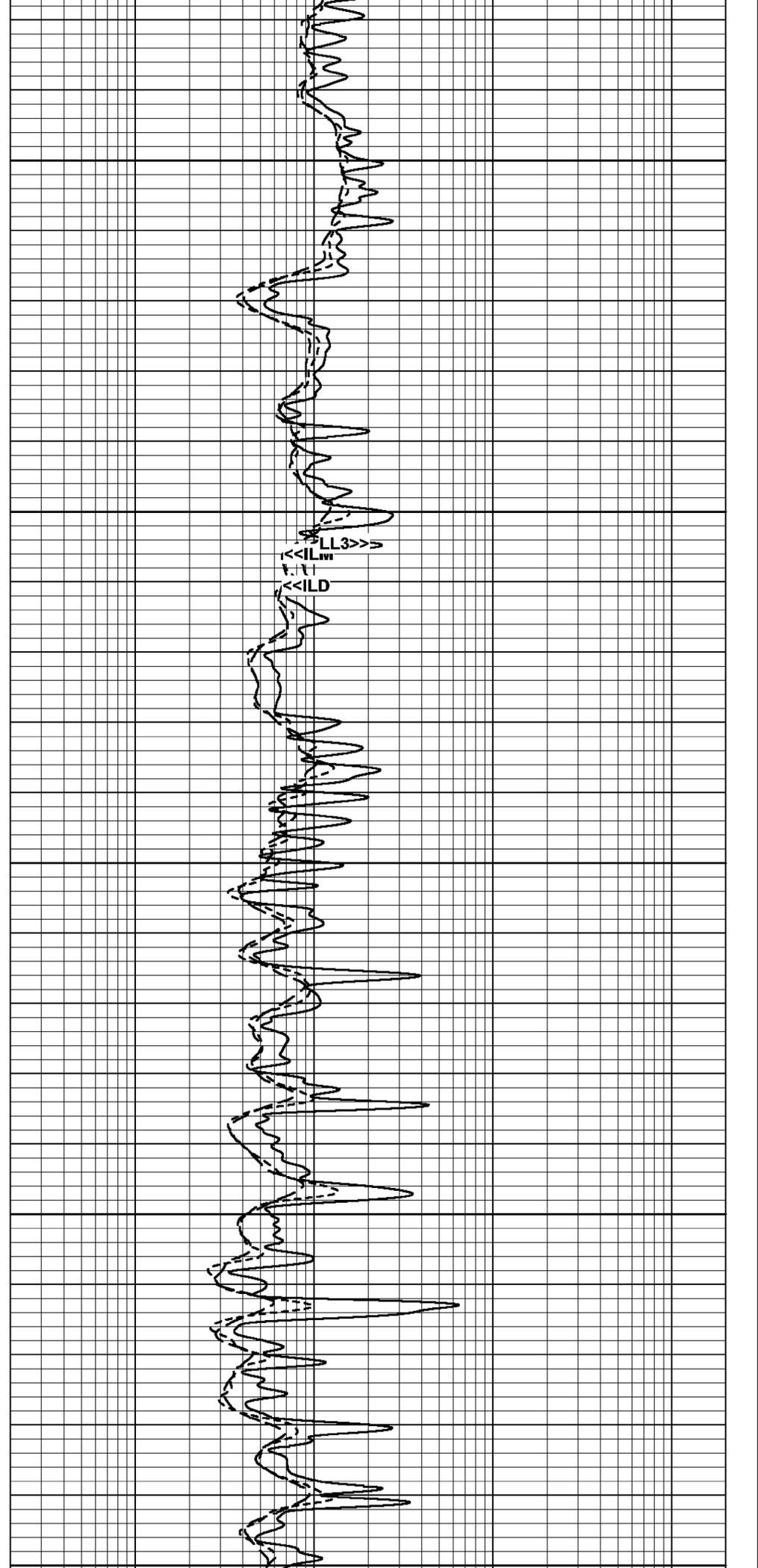
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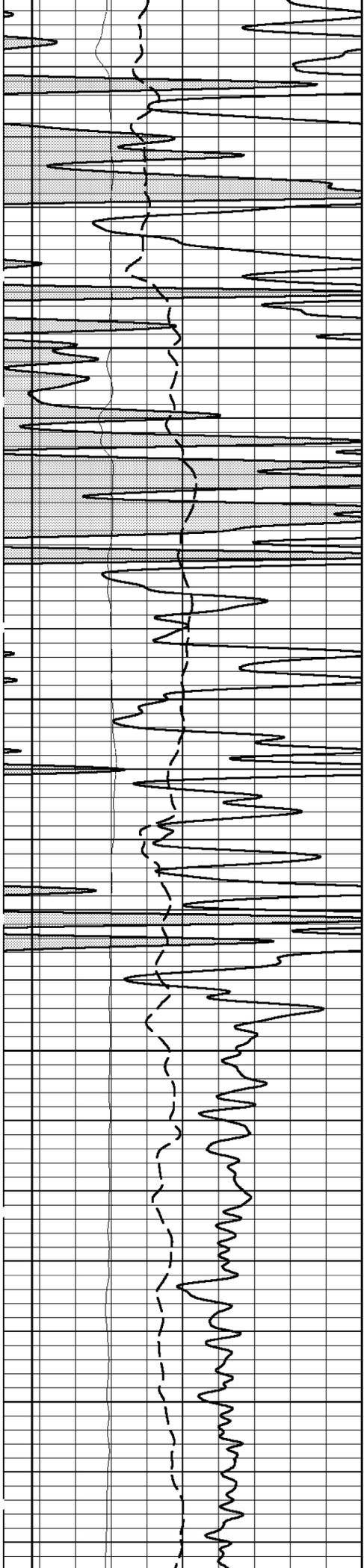
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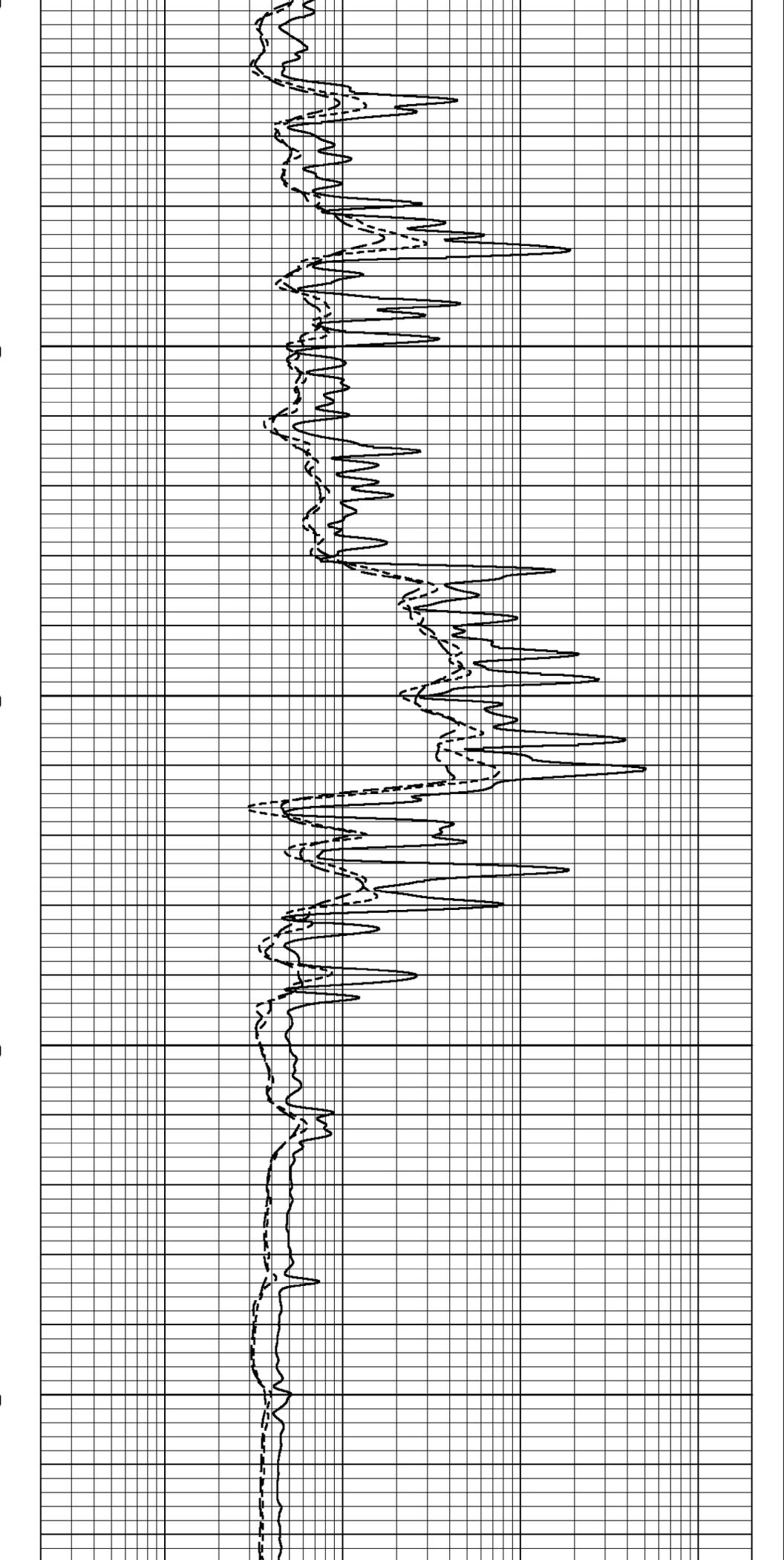
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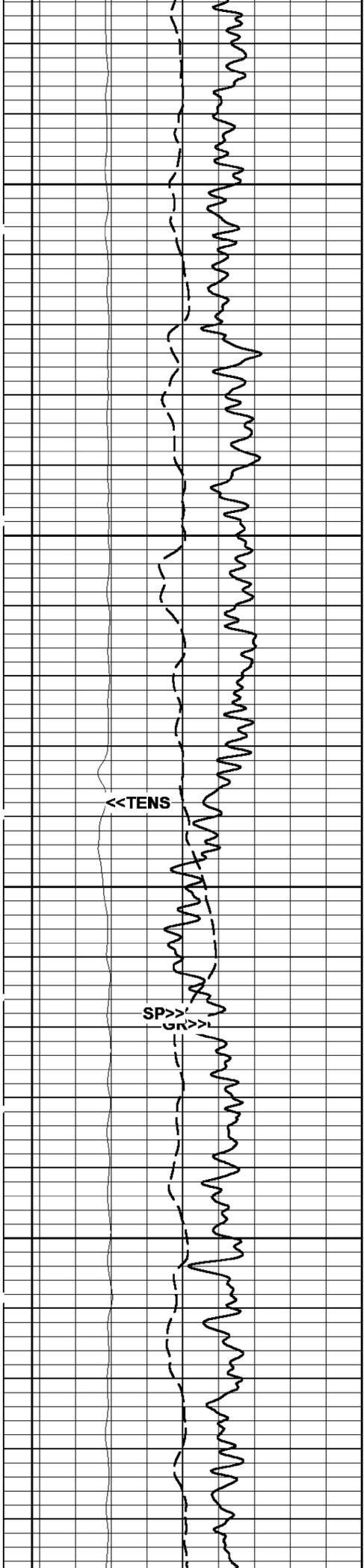


<<LL3>>
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<<LD



5850
5900
5950
6000
6050



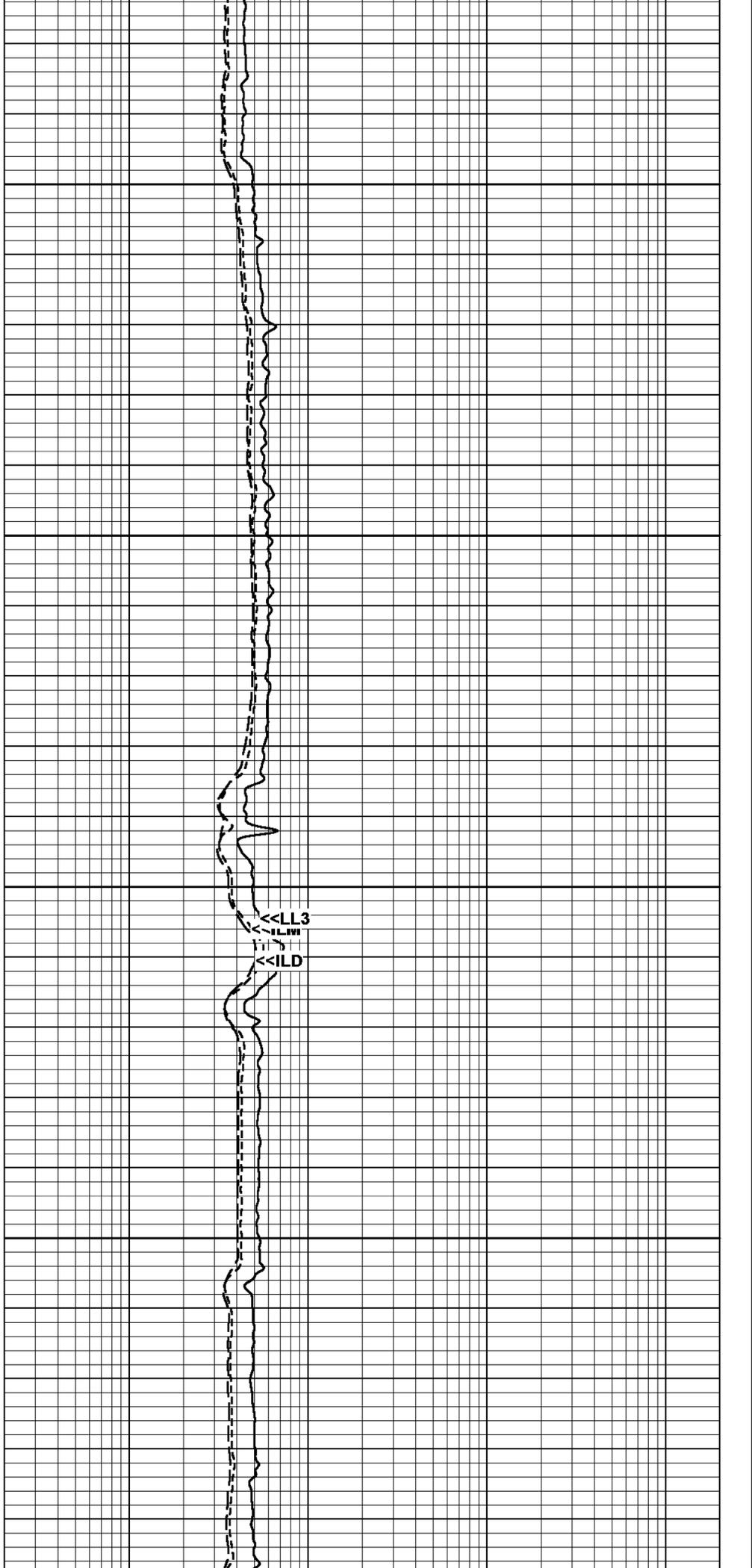


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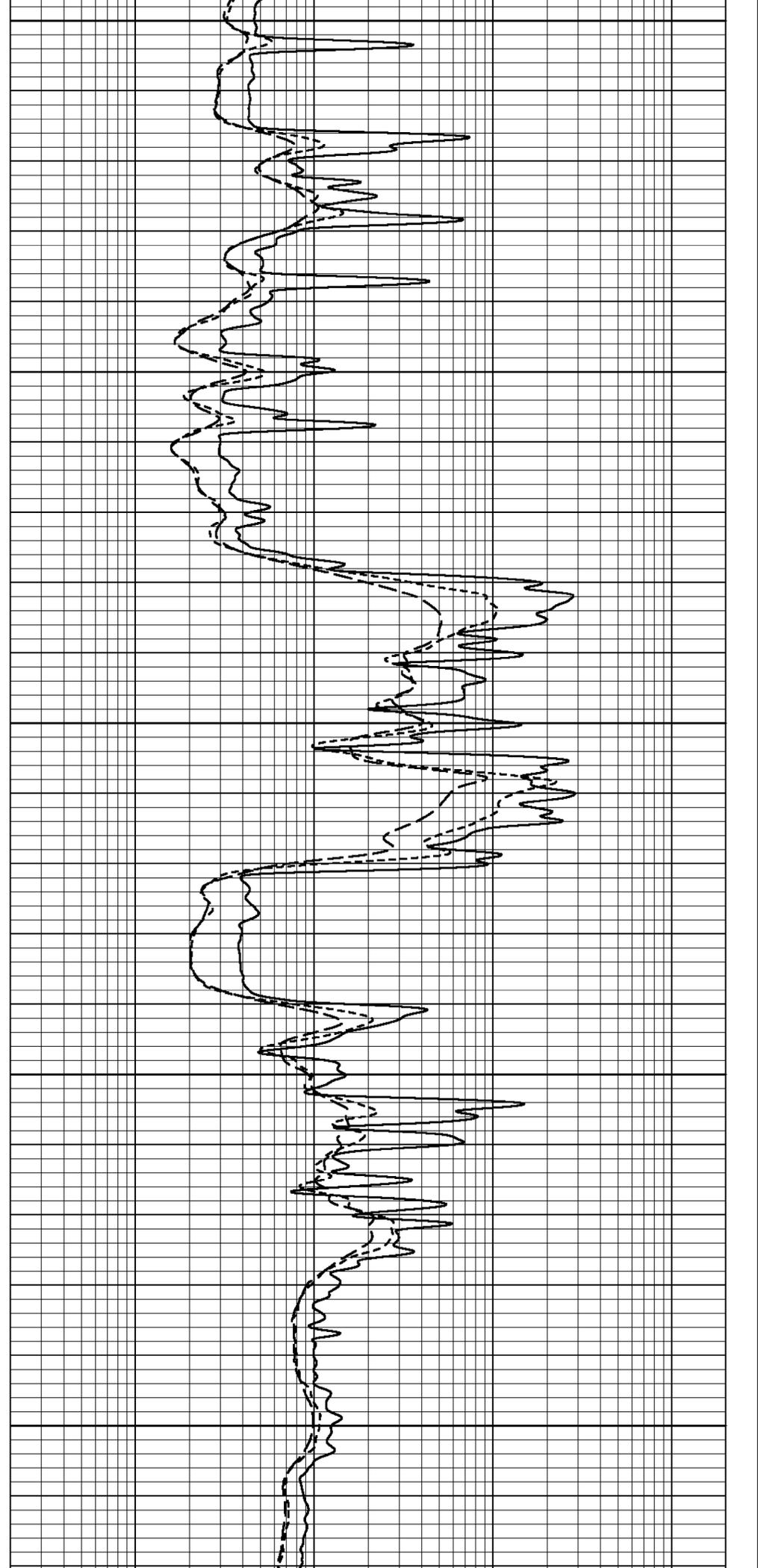
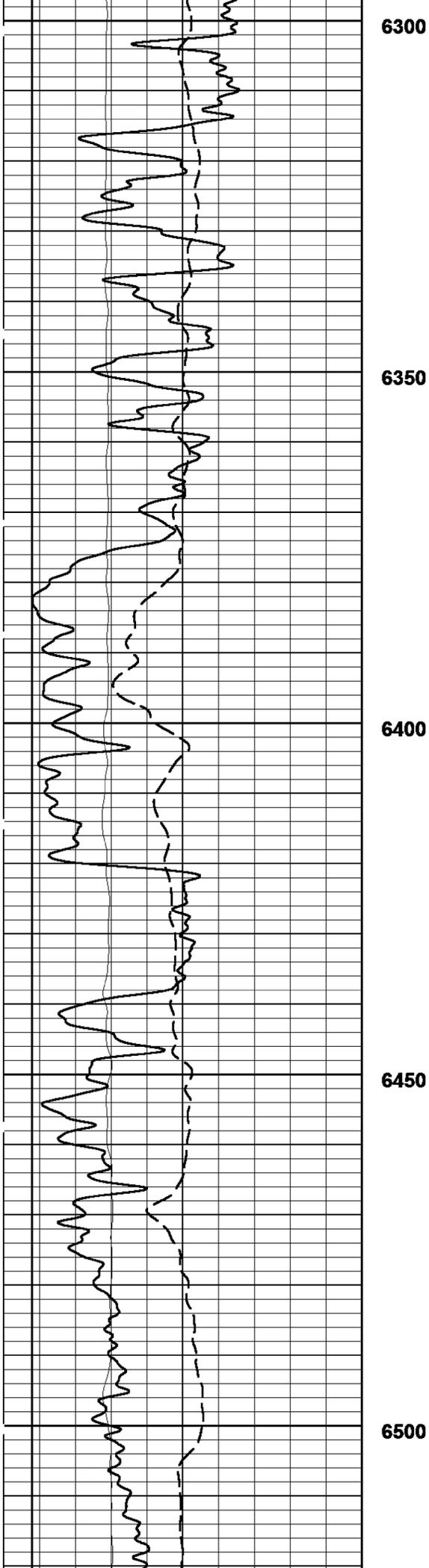
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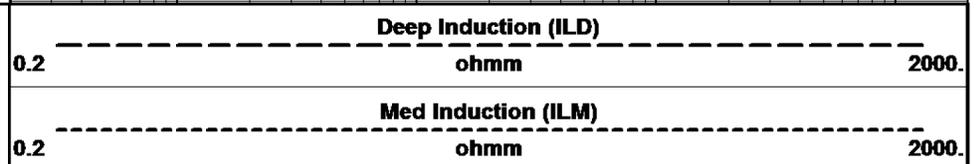
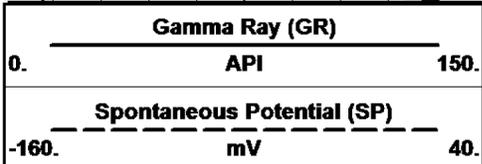
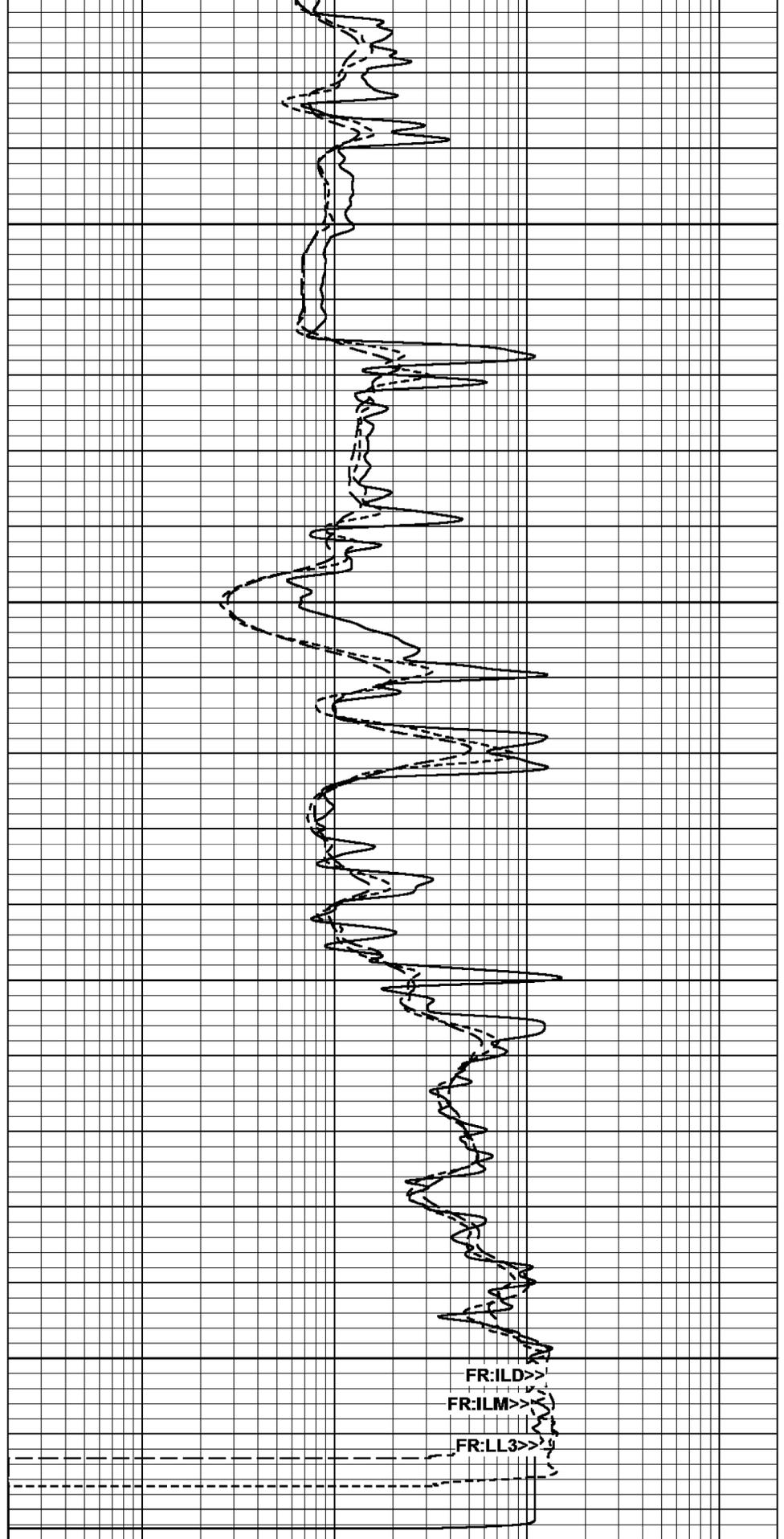
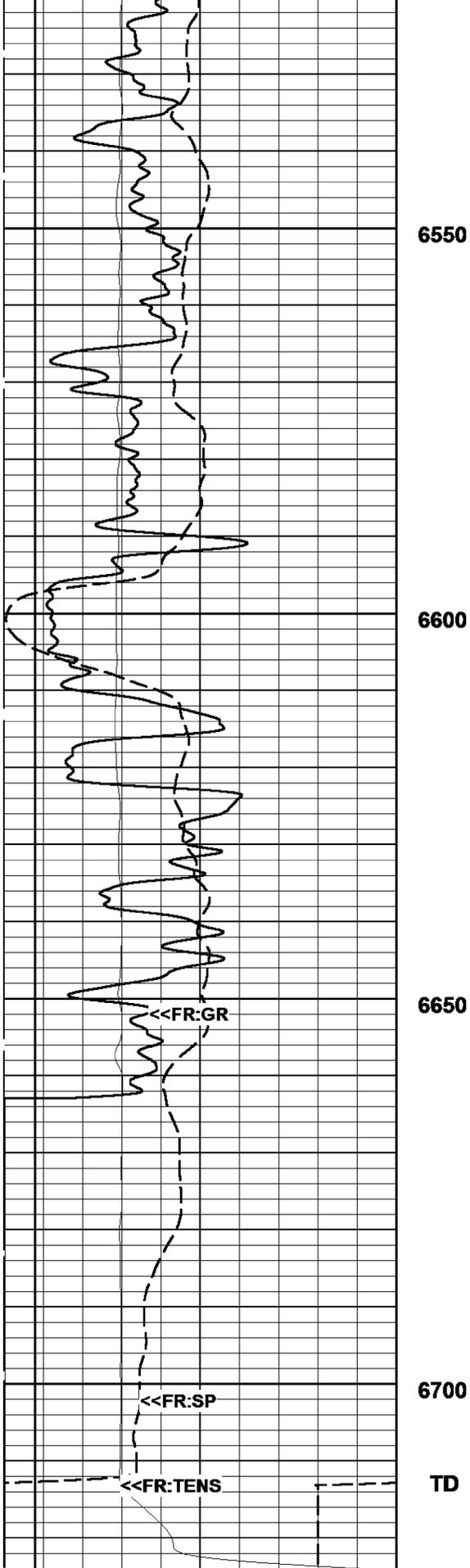
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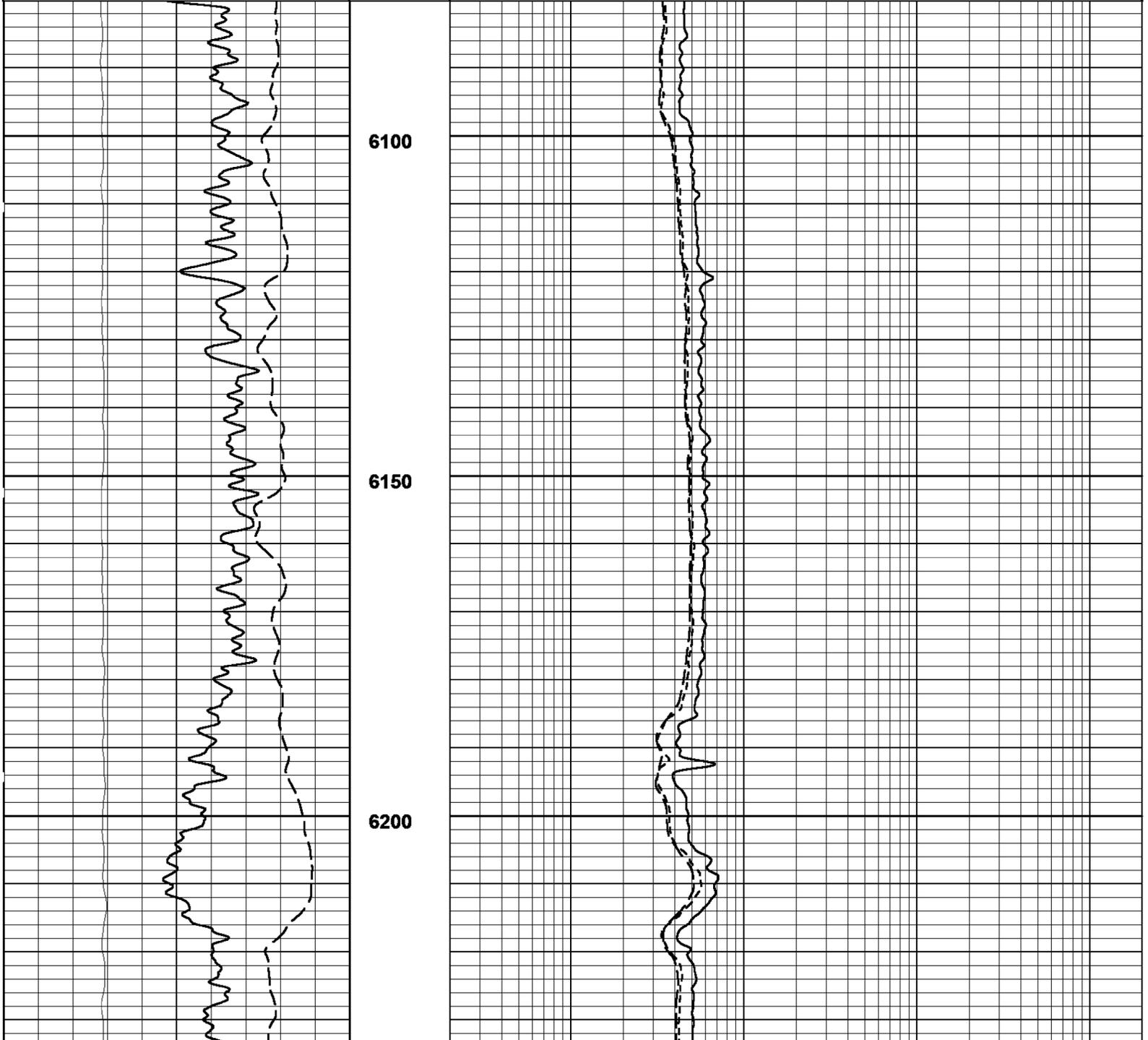


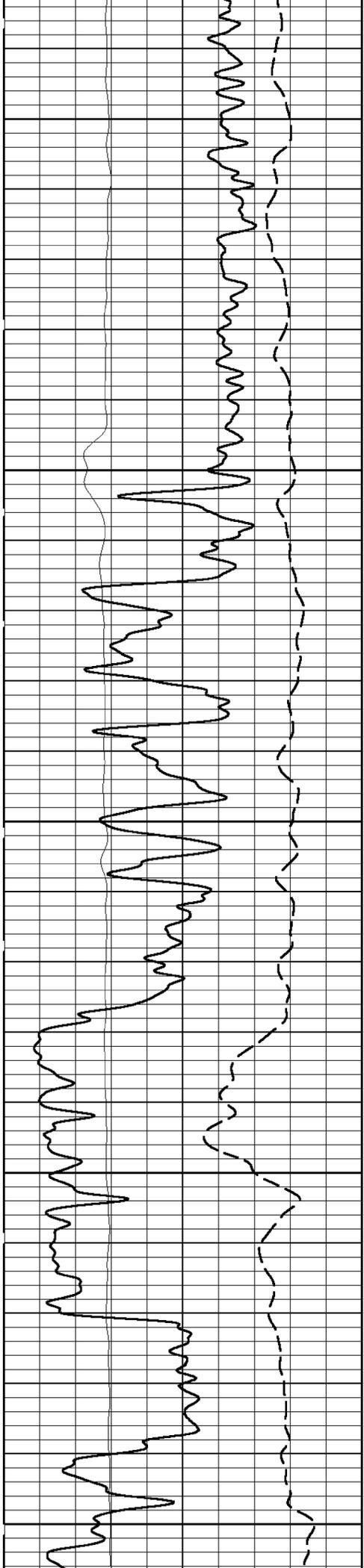
Tension (TENS)	Laterolog (LL3)	
5000. Lbs 0.	0.2 ohmm 2000.	

06/25/2014	MAIN PASS (5"/100ft)	Log UP - (VER 11.19)
15:56:22 => Start Time		Start Depth=> 6724.10 Feet

06/25/2014	REPEAT PASS (5"/100ft)	Log UP - (VER 11.19)
15:48:29 => End Time		End Depth=> 6080.40 Feet

Tension (TENS)	Laterolog (LL3)	
5000. Lbs 0.	0.2 ohmm 2000.	
Spontaneous Potential (SP)	Med Induction (ILM)	
-160. mV 40.	0.2 ohmm 2000.	
Gamma Ray (GR)	Deep Induction (ILD)	
0. API 150.	0.2 ohmm 2000.	





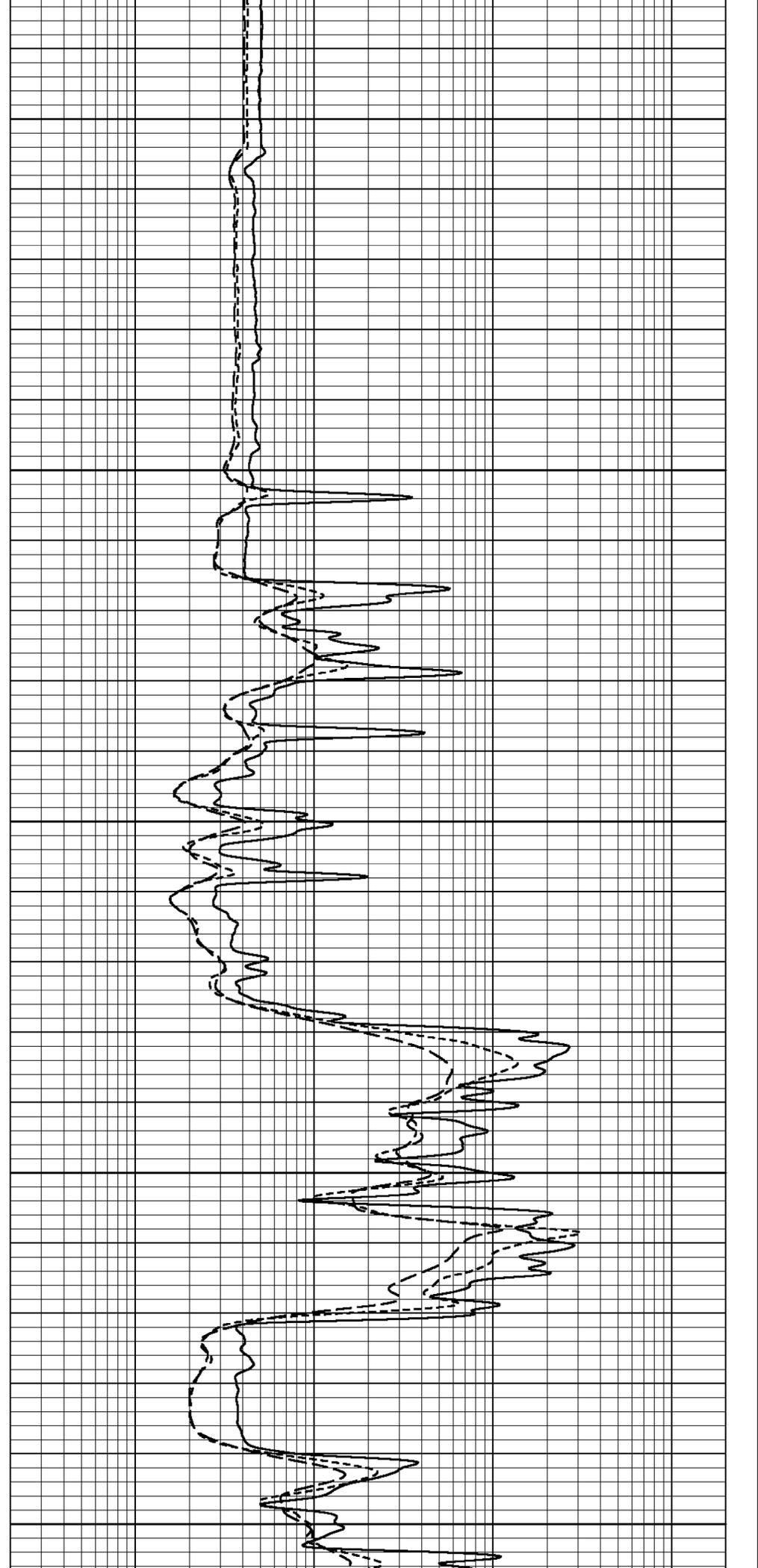
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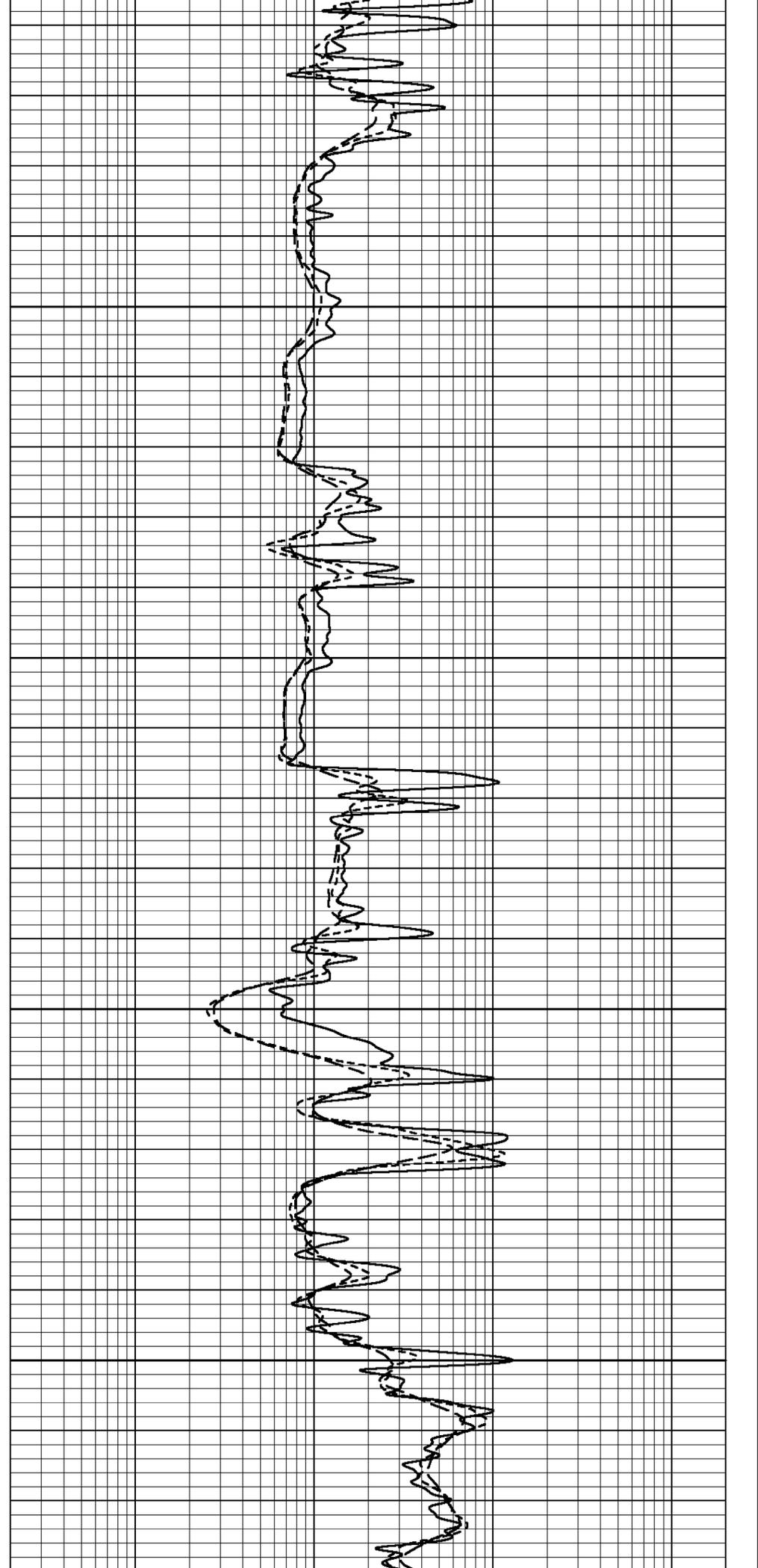
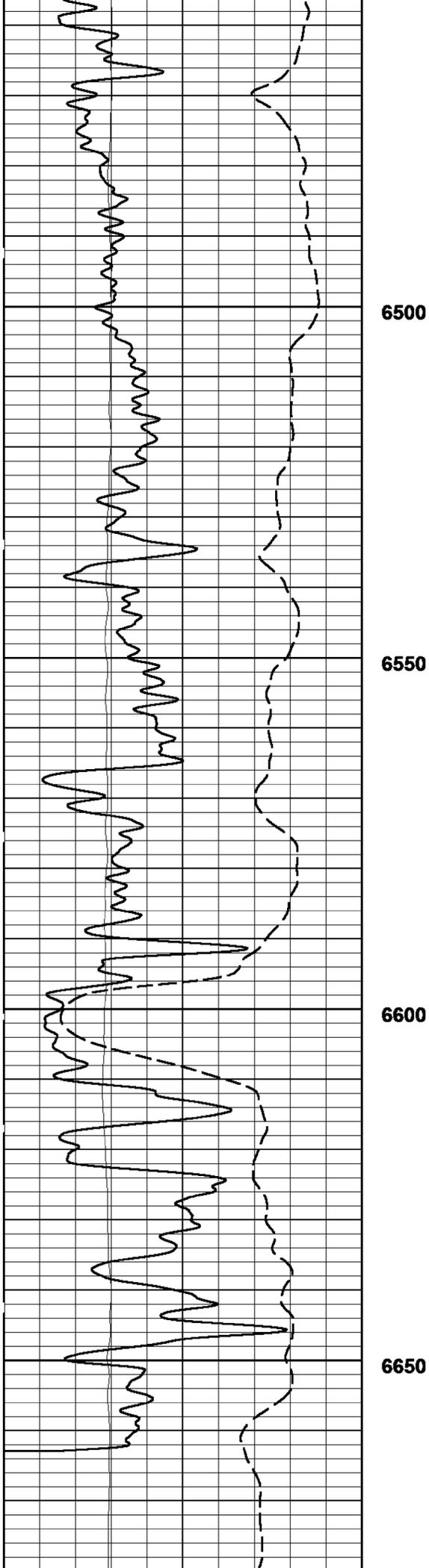
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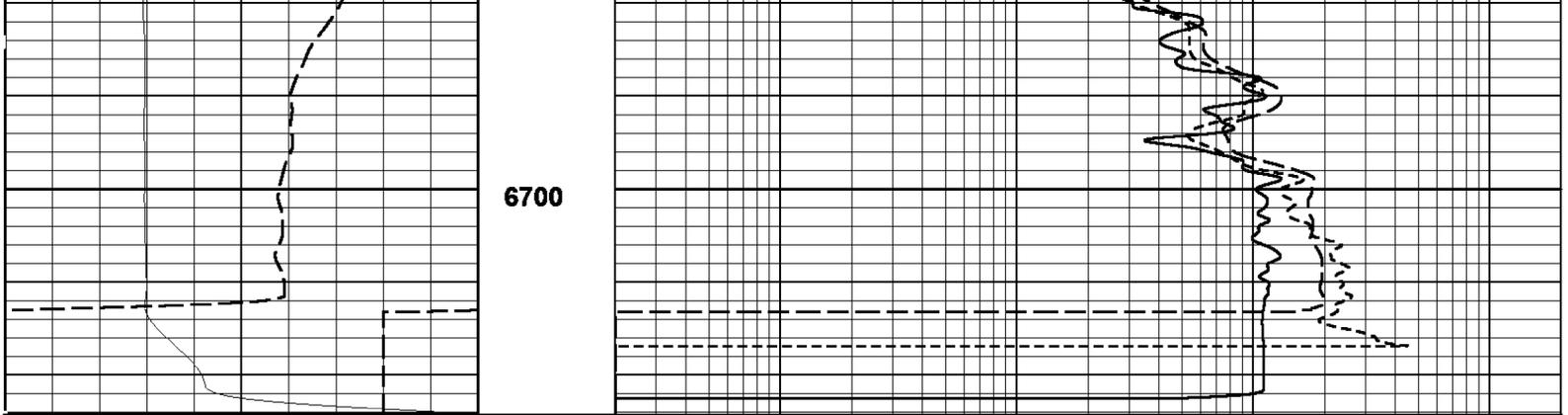
6350

6400

6450







6700

Gamma Ray (GR) 0. <u>API</u> 150.	Deep Induction (ILD) 0.2 <u>ohmm</u> 2000.
Spontaneous Potential (SP) -160. <u>mV</u> 40.	Med Induction (ILM) 0.2 <u>ohmm</u> 2000.
Tension (TENS) 5000. <u>Lbs</u> 0.	Laterolog (LL3) 0.2 <u>ohmm</u> 2000.

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

Induction Resistivity / Conductivity Calibrations

TOOL TYPE Slim Hole Induction LOOP TYPE
 SERIAL NUM RD1007 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	-15.301	671.962	M/D/Y> 9/21/2012	H:M:S> 11:54:16
MED INDUCTION	0.000		462.500	501.895	-37.349	785.102	M/D/Y> 9/21/2012	H:M:S> 11:59:24
SHALLOW LATERLOG	CALIBRATOR LOW(ohm)		CALIBRATOR HI(ohm)		LOW(mV)		HI(mV)	
	2.000		500.000		11.881	2513.165	M/D/Y> 9/21/2012	H:M:S> 12:3:4

WELL SITE CALIBRATIONS

GAMMA RAY CALIBRATION

SERIAL NUM RG3005
 BLANKET NUM 1A

MASTER CALIBRATIONS

LowVal: 0.000 API	HighVal: 122.000 API	Gain/Offset	CALIBRATION DATE	CALIBRATION TIME
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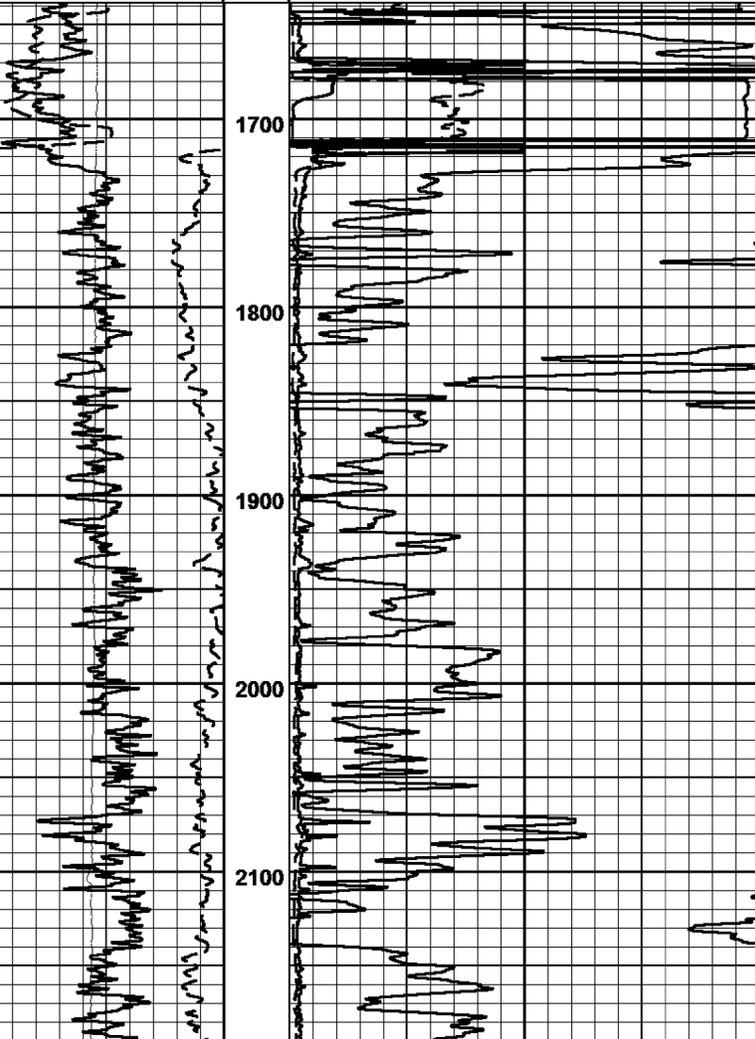
Company	MIDWESTERN EXPLORATION COMPANY
Well	MILLS-GOOCH #2-7
Field	GOOCH
County	STEVENS
State	KANSAS

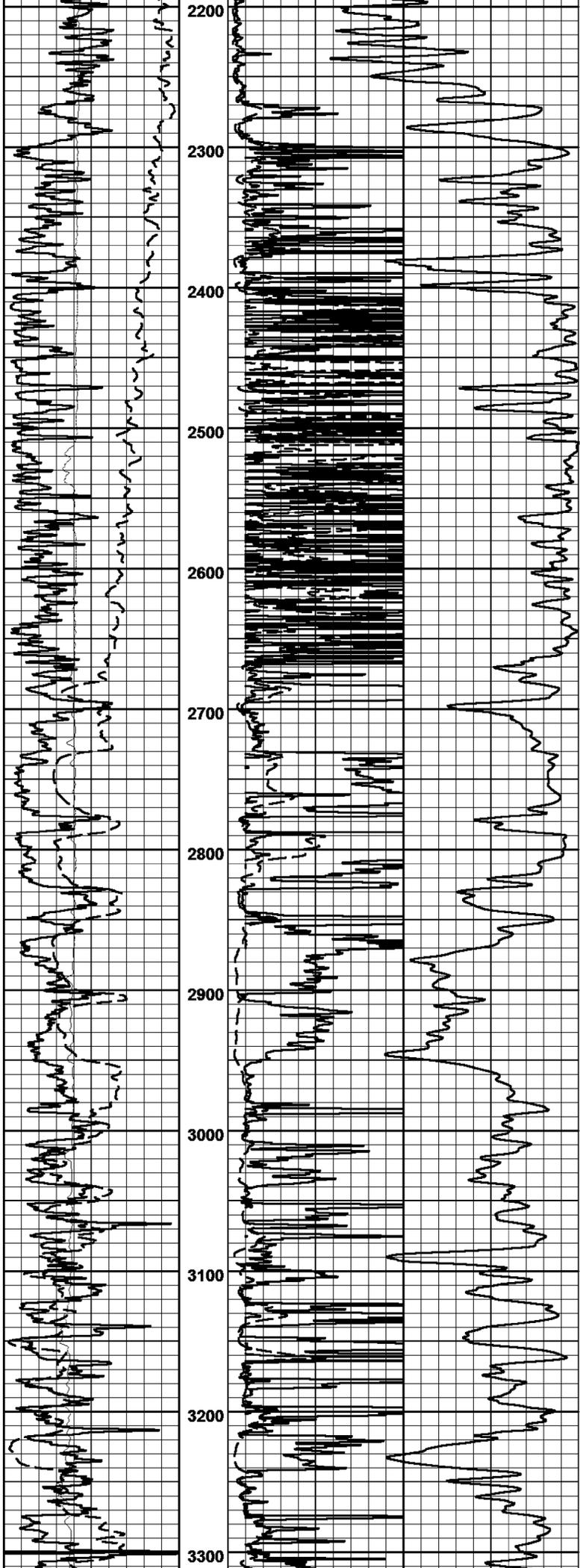


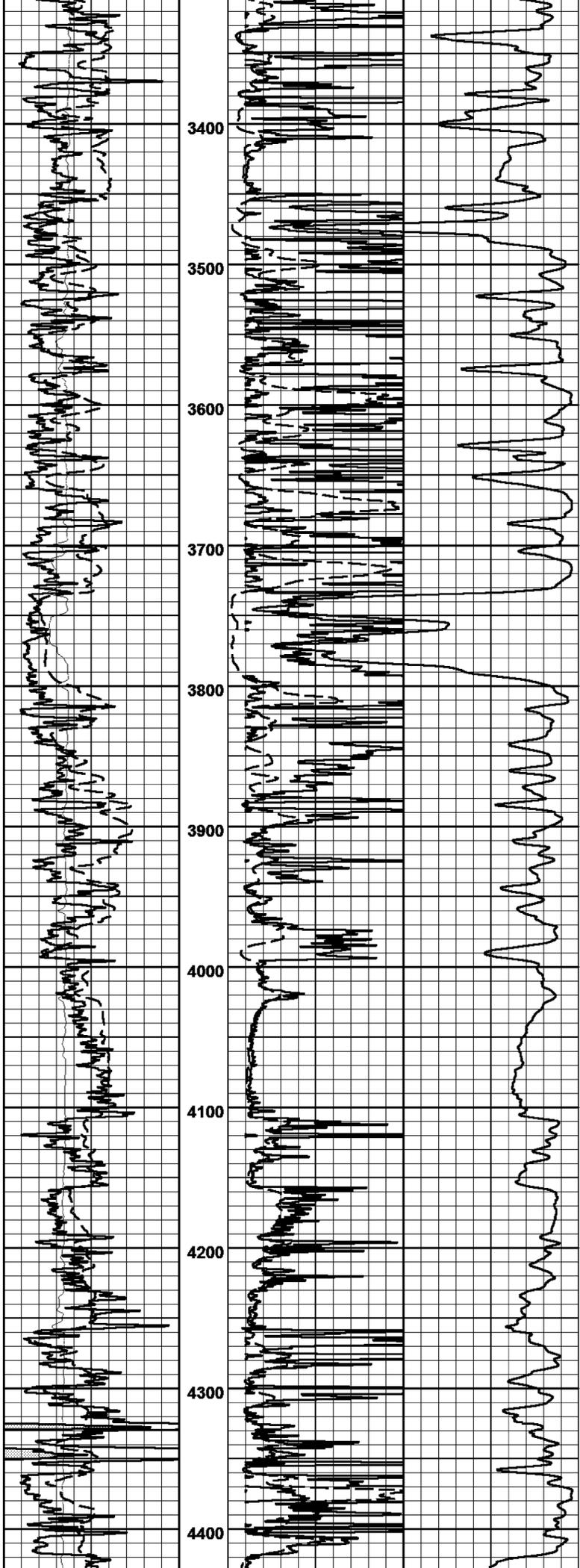
DUAL INDUCTION
LATEROLOG - SP
GAMMA RAY

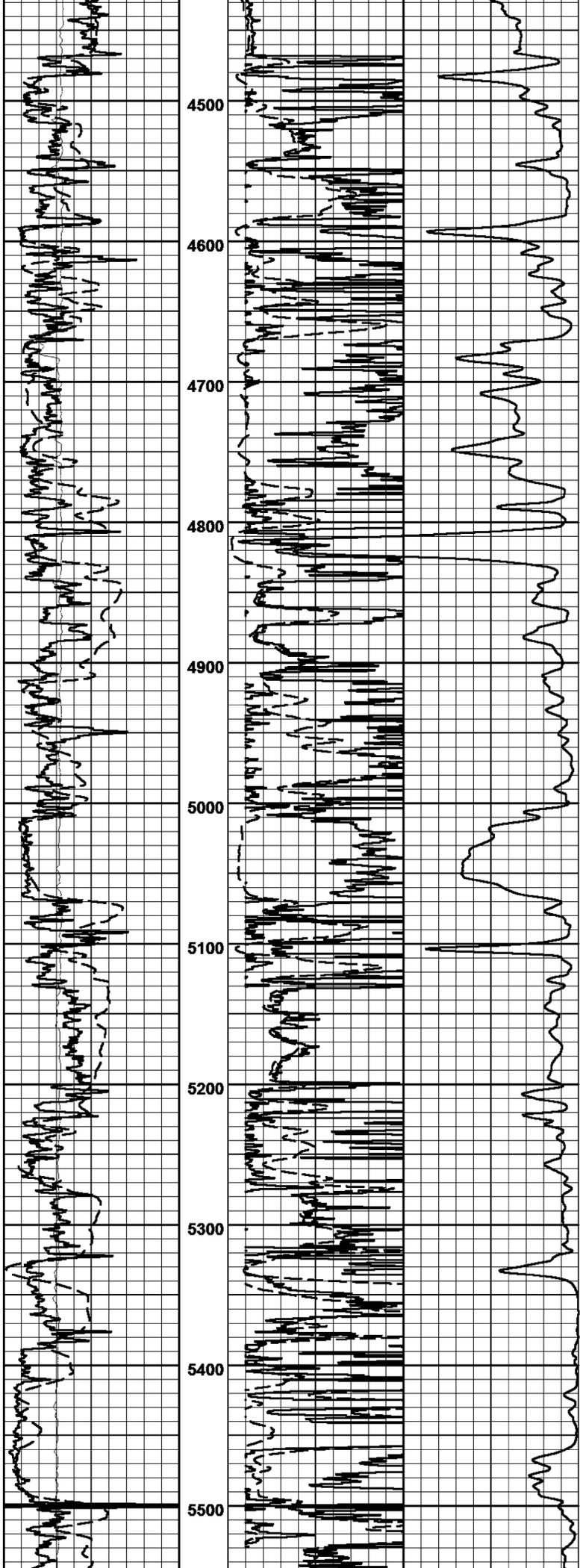
06/25/2014 MAIN PASS (1"/100FT) Log UP - (VER 11.19)
18:36:46 => End Time End Depth=> 1639.50 Feet

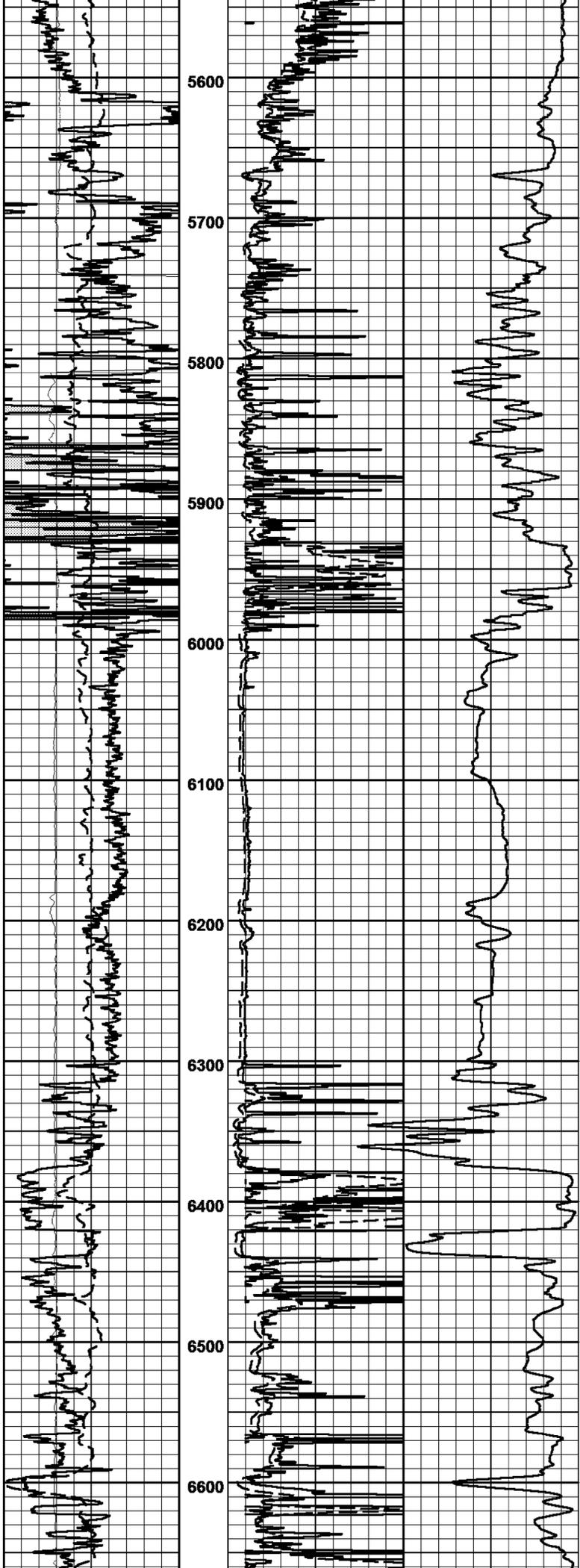
Tension (TENS) 5000. Lbs 0.	Laterolog (LL3) 0. ohmm 50.
Spontaneous Potential (SP) -160. mV 40.	Deep Induction (ILD) 0. ohmm 50.
Gamma Ray (GR) 0. API 150.	Deep Induction (CILD) 1000. mmhos 0.

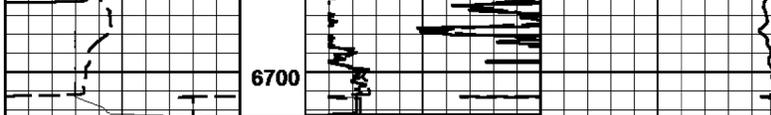












Gamma Ray (GR)		Deep Induction (CILD)	
0.	API 150.	1000.	0.
Spontaneous Potential (SP)		Deep Induction (ILD)	
-160.	mV 40.	0.	ohmm 50.
Tension (TENS)		Laterolog (LL3)	
5000.	Lbs 0.	0.	ohmm 50.

06/25/2014 **MAIN PASS (1"/100FT) Log UP - (VER 11.19)**
 15:56:22 => Start Time Start Depth=> 6724.00 Feet



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