

Company **CMX INCORPORATED**
Well **BUSHTON #1-20**
Field **STOLTENBERG**
County **ELLSWORTH**
State **KANSAS**

RECON
DUAL INDUCTION
LATEROLOG - SP
GAMMA RAY

SEC		TWP	RGE	OTHER SERVICES:	
20		17S	09W	LDT	CNL
Location, 925' FSL & 710' FWL			XY CALIPER MICROLOG BHC		
SURF. SAME		API#.	015-053-21323-00-00		
Permanent Datum		Ground Level	Elev	ELEVATIONS	
Log Measured From		Kelly Bushing		K.B. 1777	
Drilling Measured From		Kelly Bushing		G.L. 1764	
				D.F. 1775	
Date	19-MAY-2015				
Run No.	ONE				
TD Driller	3320	ft	ft		
TD RECON	3317	ft	ft		
Bot Logged Interval	3316	ft	ft		
Top Logged Interval	340	ft	ft		
Casing Depth Driller	8 5/8	in.	@ 350	@	
Casing Depth RECON	8 5/8	in.	@ 350	@	
Bit Size	7 7/8	in.	in.		
Drilling Fluid Type	WBM				
Density	Viscosity	9.2	56		
Fluid Loss	PH	9.0	12.0		
Source Of Sample		Flowline			
RM @ Measured Temp	1.04	Ohmm	@ 75	Ohmm @	
RMF @ Measured Temp	0.78	Ohmm	@ 75	Ohmm @	
RMC @ Measured Temp	1.29	Ohmm	@ 75	Ohmm @	
RM @ MRT	0.74	Ohmm	@ 107.6	Ohmm @	
Max Recorded Temp	107.6	DegF	DegF		
Time Drilling Stopped	19-MAY-2015	11:43			
Time Circulation Stopped	19-MAY-2015	13:10			
Time Logger On Bottom	19-MAY-2015	17:15			
Unit Num	Location	S406	OKLAHOMA CITY, OK		
Recorded By	K.HELDERMON				
Witnessed By	K.LEBLANC				

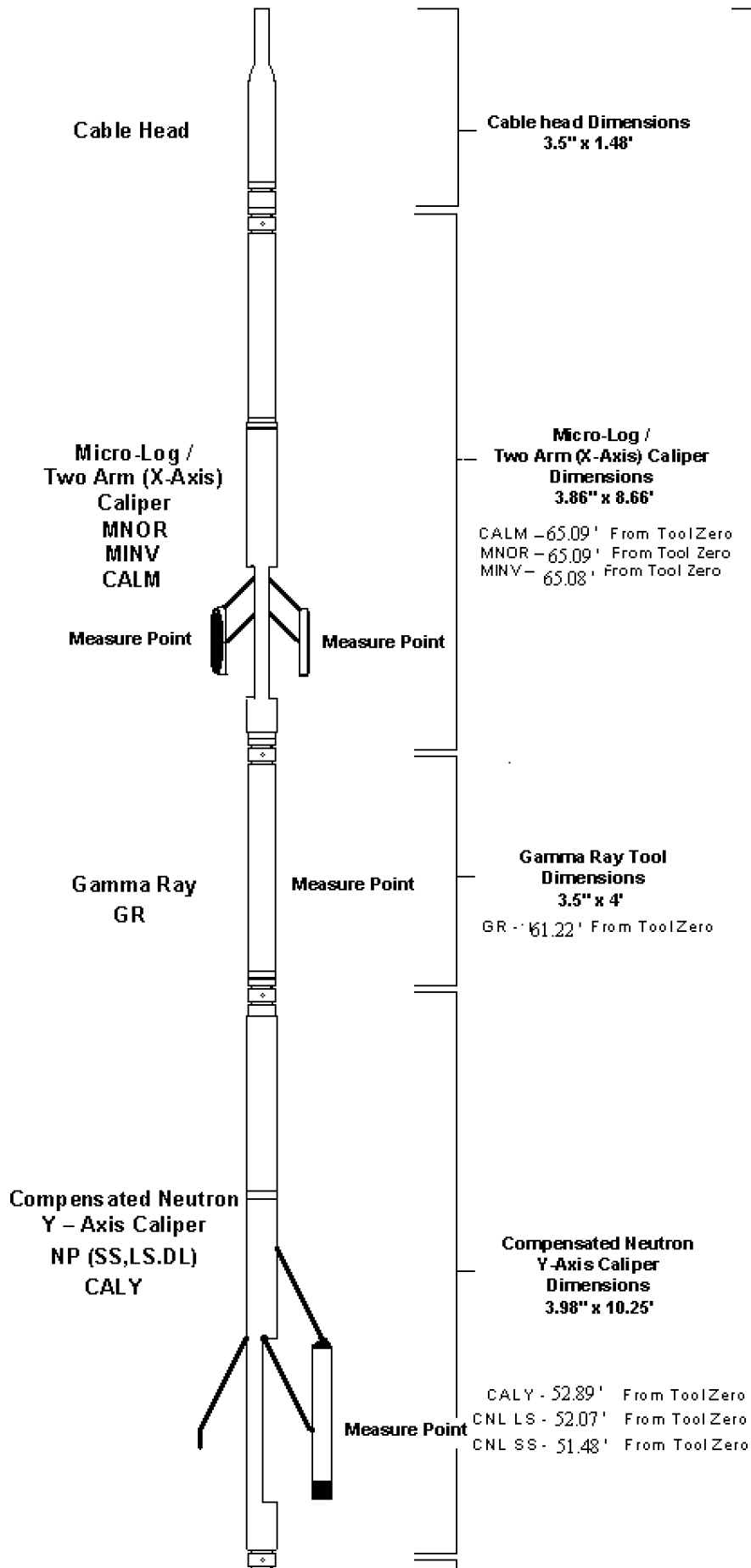
All interpretations are based on inferences from electrical or other readings, and therefore, RECON cannot and will not guarantee the accuracy of any interpretations of log data. RECON shall not be liable for any loss, costs, damages, or expenses incurred or sustained by anyone resulting from

interpretations made by any of our officers, agents or employees, except in the case of provable Gross Neglegence 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#	DUKE DRILLING #7

GENERAL REMARKS SECTION	
FIRST RUN IN THE HOLE CNL AND LDT LOGGED IN A LIMESTONE MATRIX TOP MARK - 298, BOTTOM MARK - 3301.5 CNL/LDT LOGGED MATRIX: 2.71 g/cc. CHLORIDES: 5000 LCM: 0 THANK YOU FOR USING RECON PETROTECHNOLOGIES LTD.	AHV CALCULATED ON 5.5" PROD. CASING CREW: J.THOMAS

**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'**

**Tool String
Length Total
73.64 '**

**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

**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'**

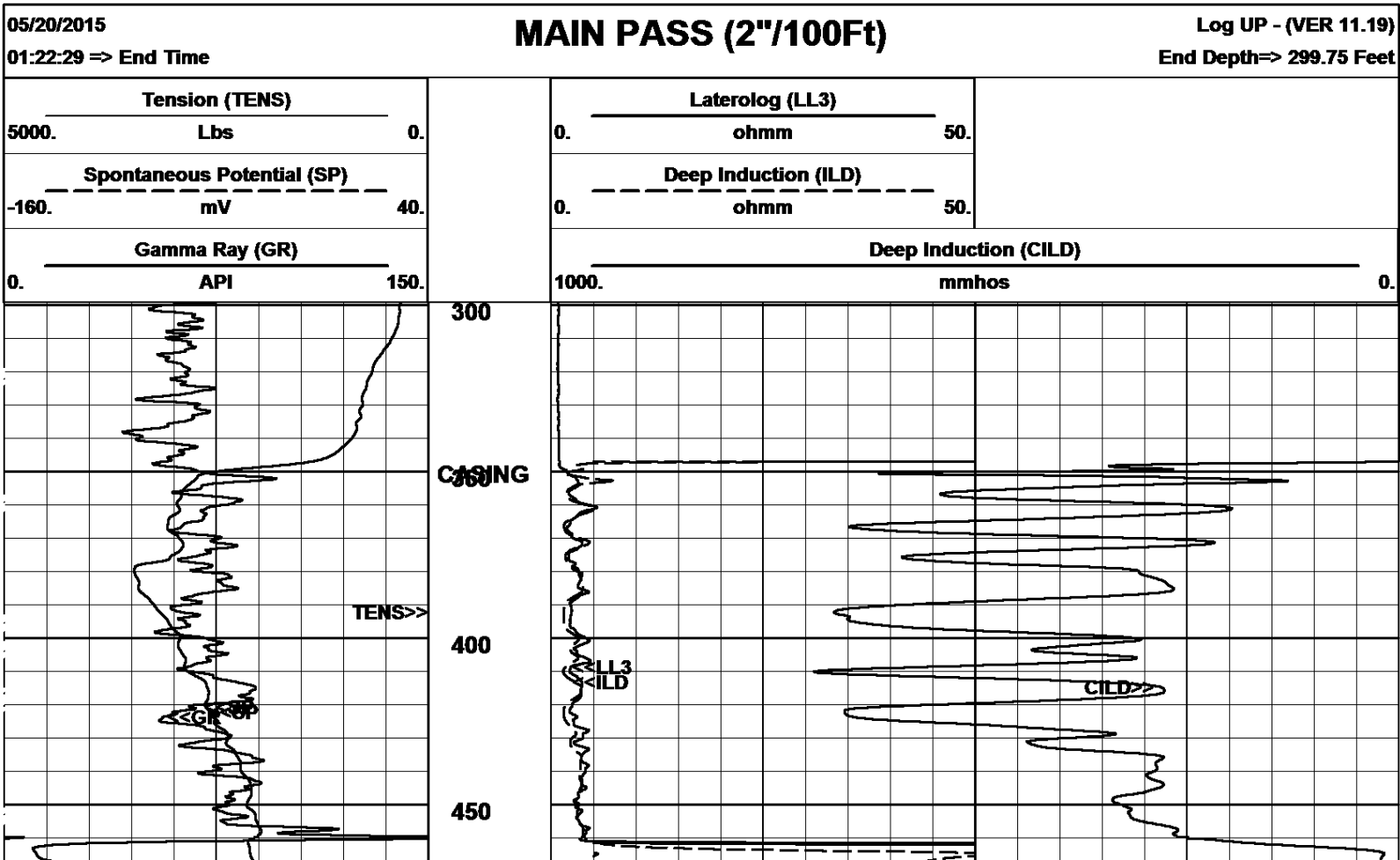
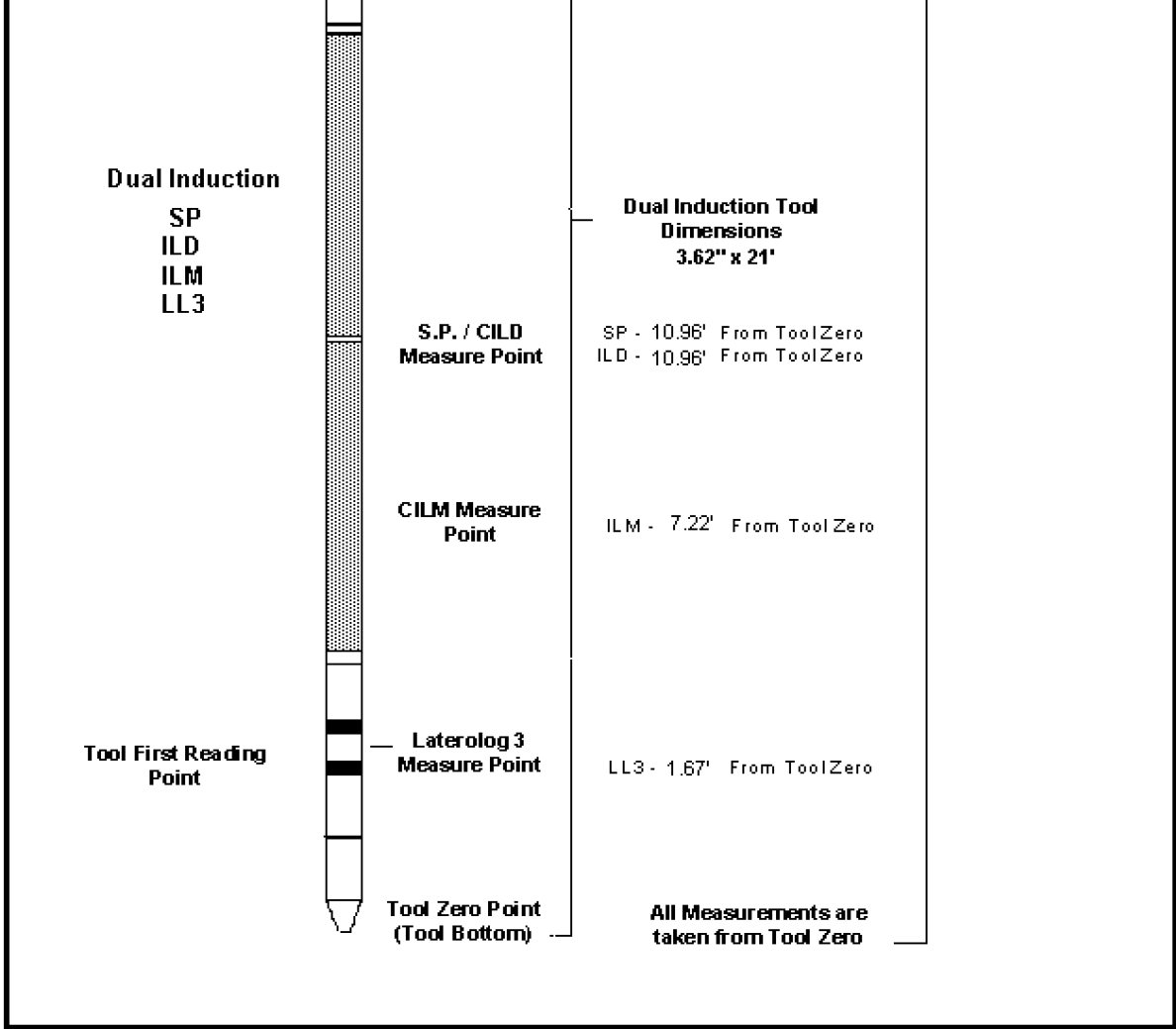
T1R1 - 33.35' From ToolZero
T1R2 - 31.35' From ToolZero

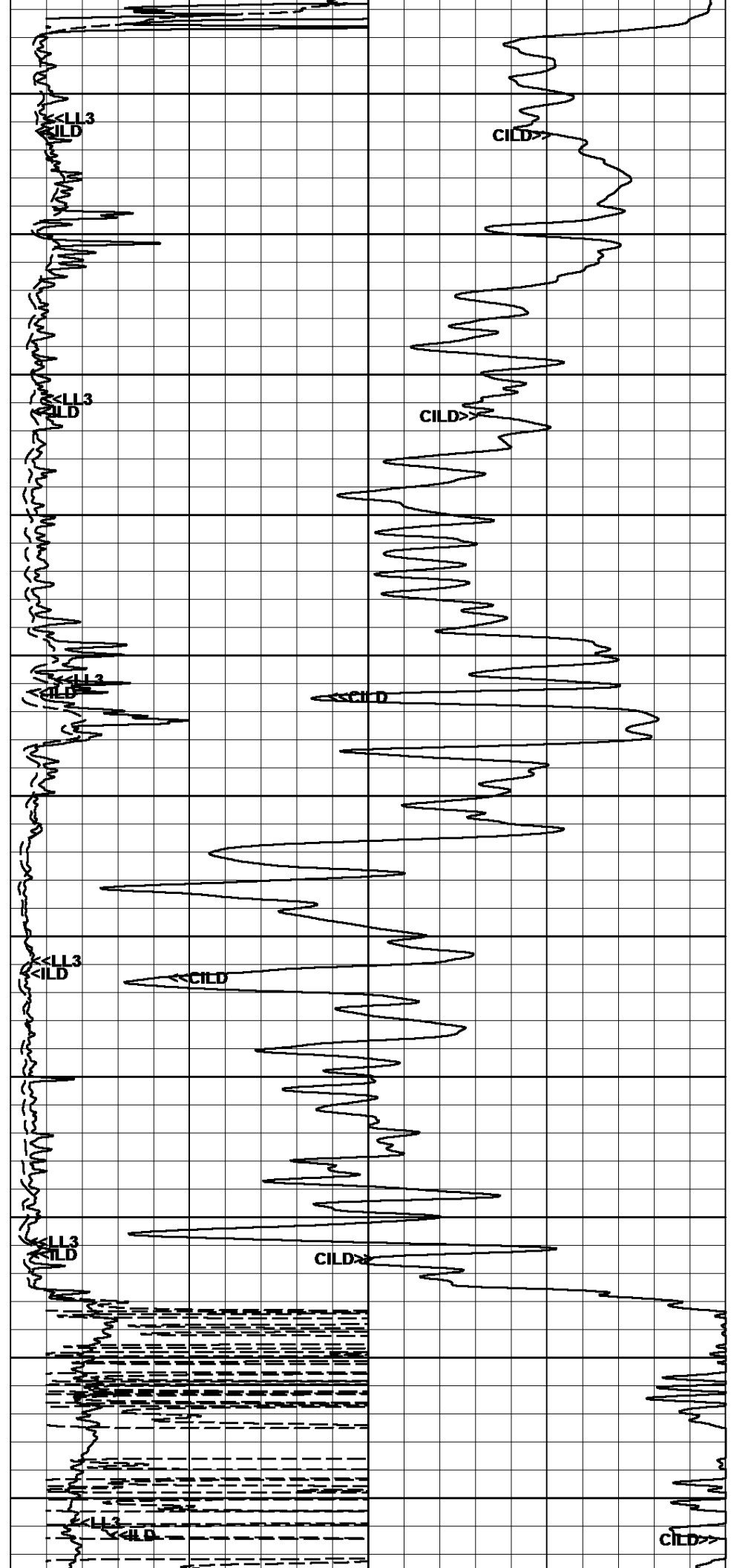
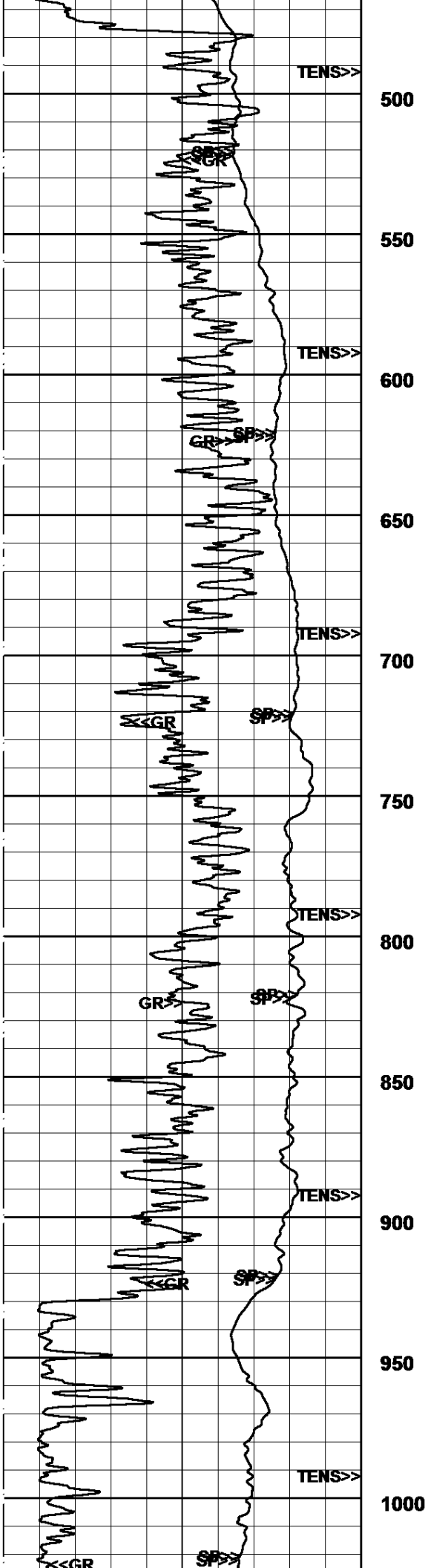
R-1
Receiver 1

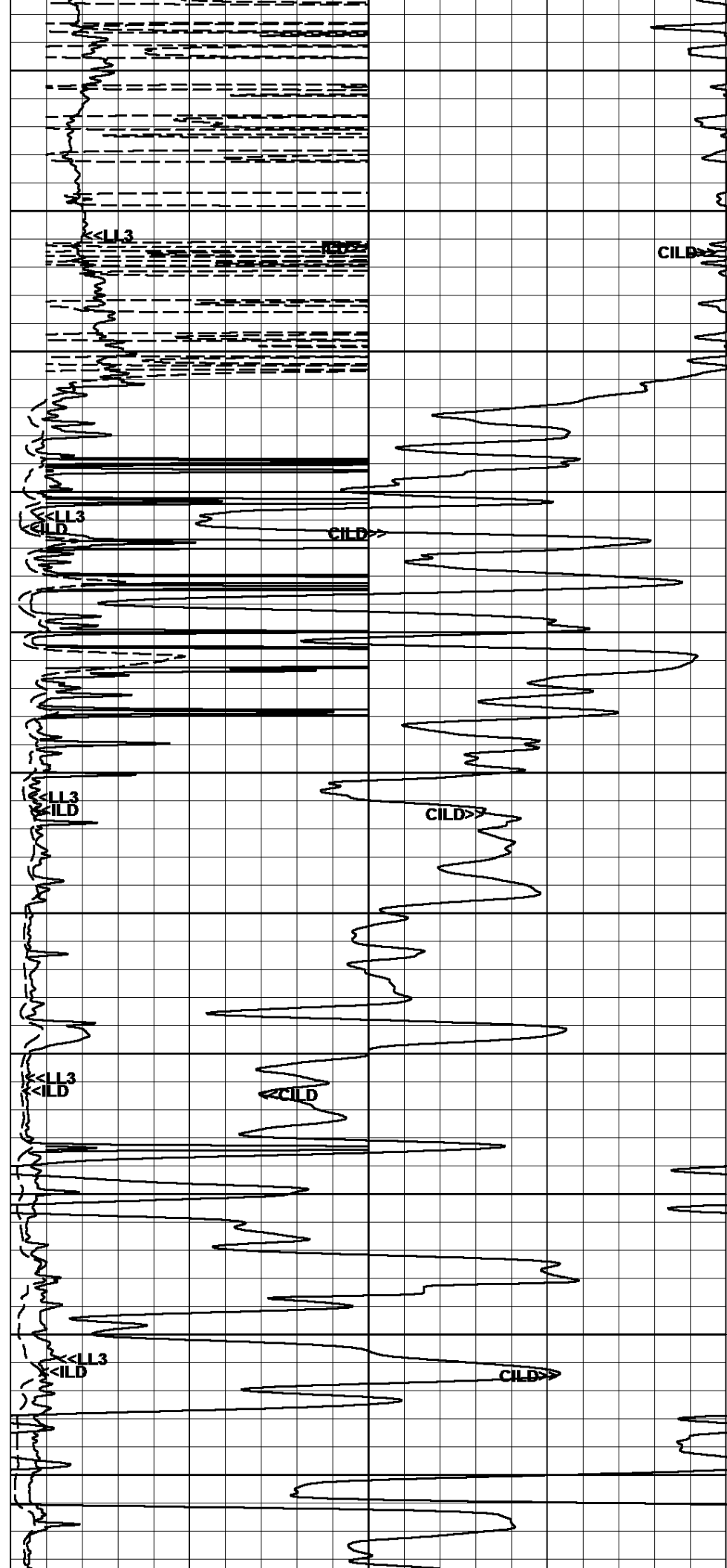
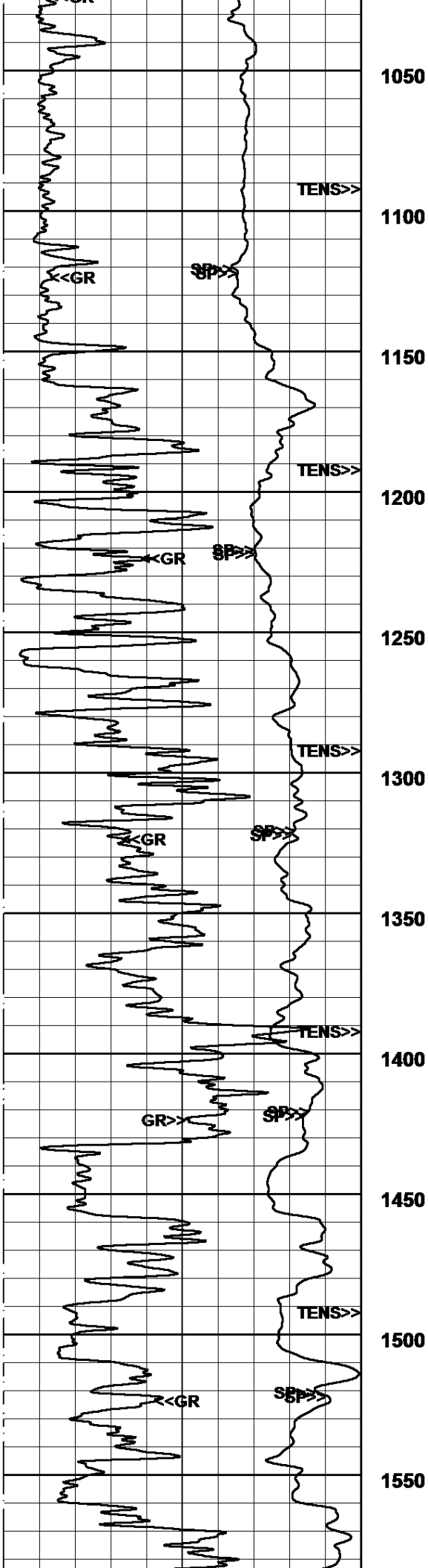
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Receiver 2

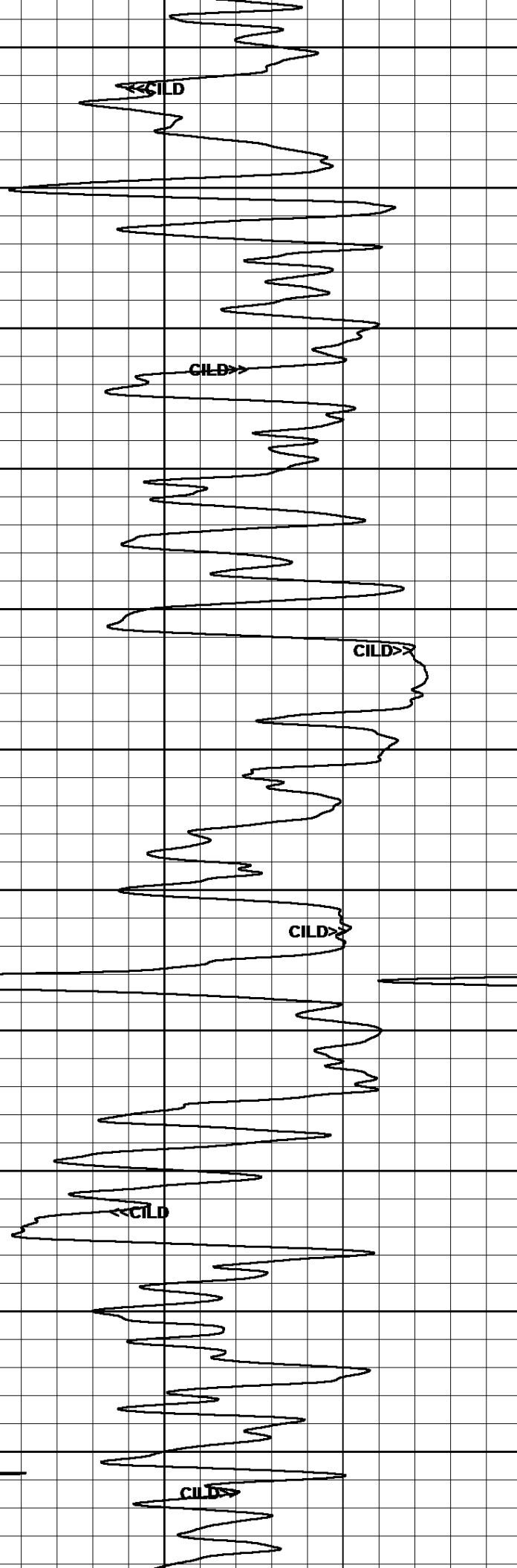
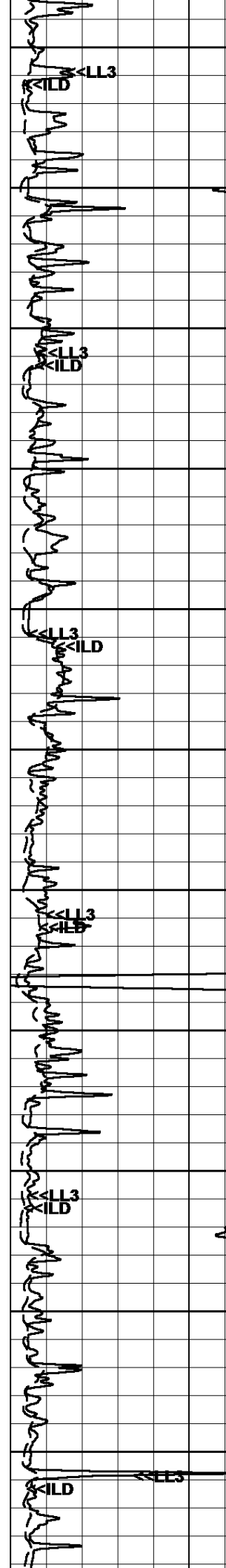
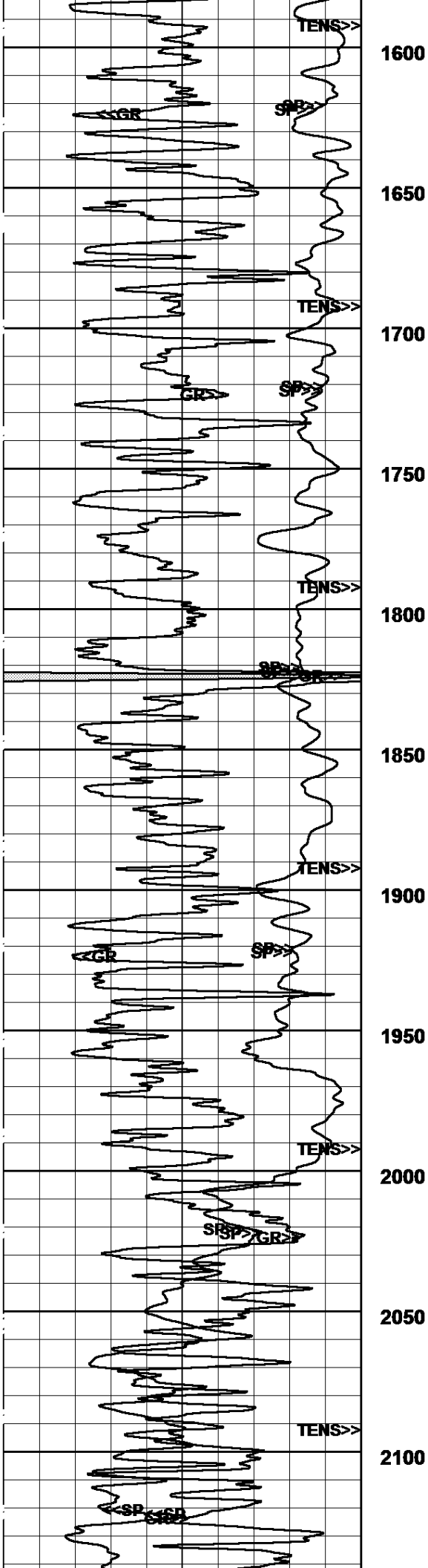
T2R1 - 28.54' From ToolZero
T2R2 - 28.37' From ToolZero

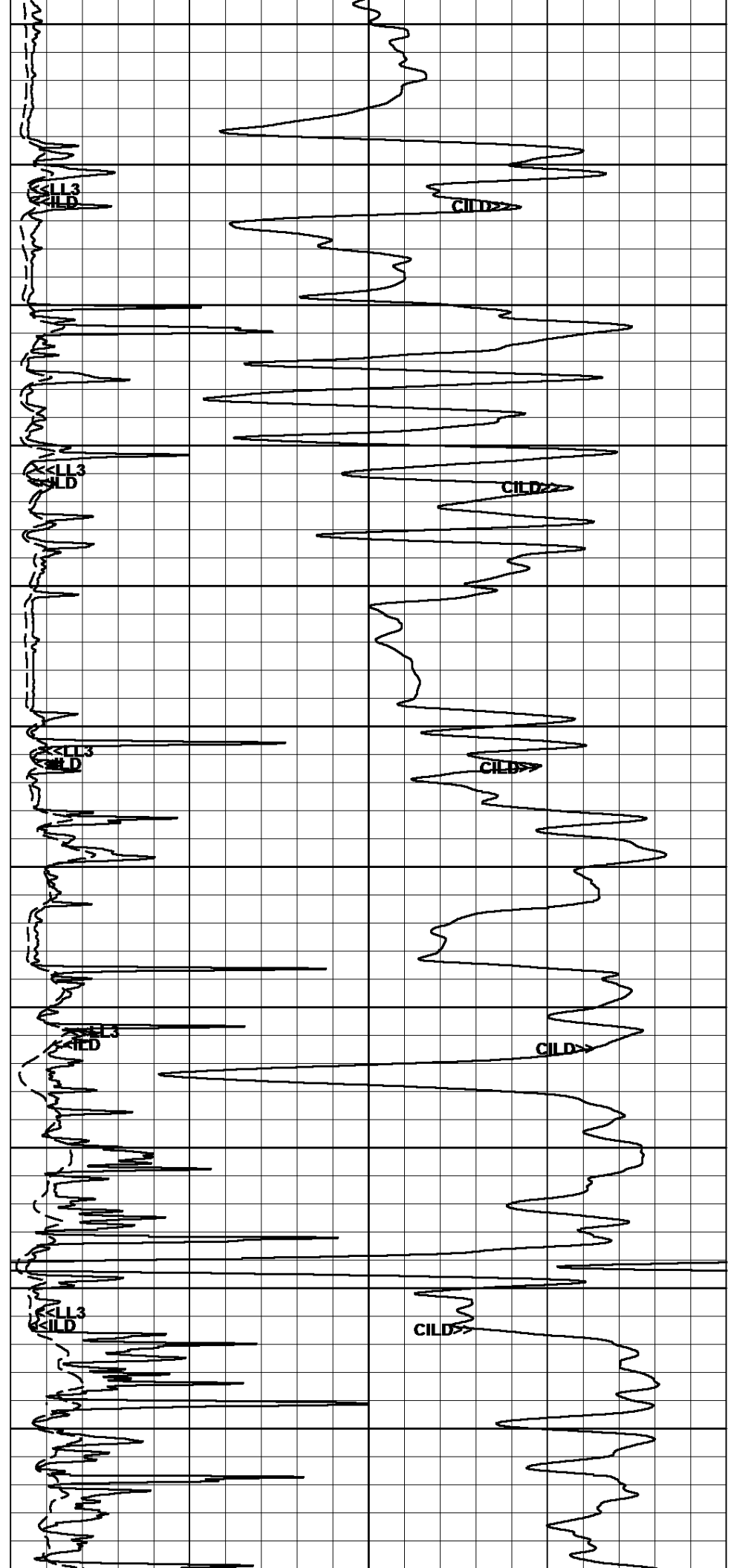
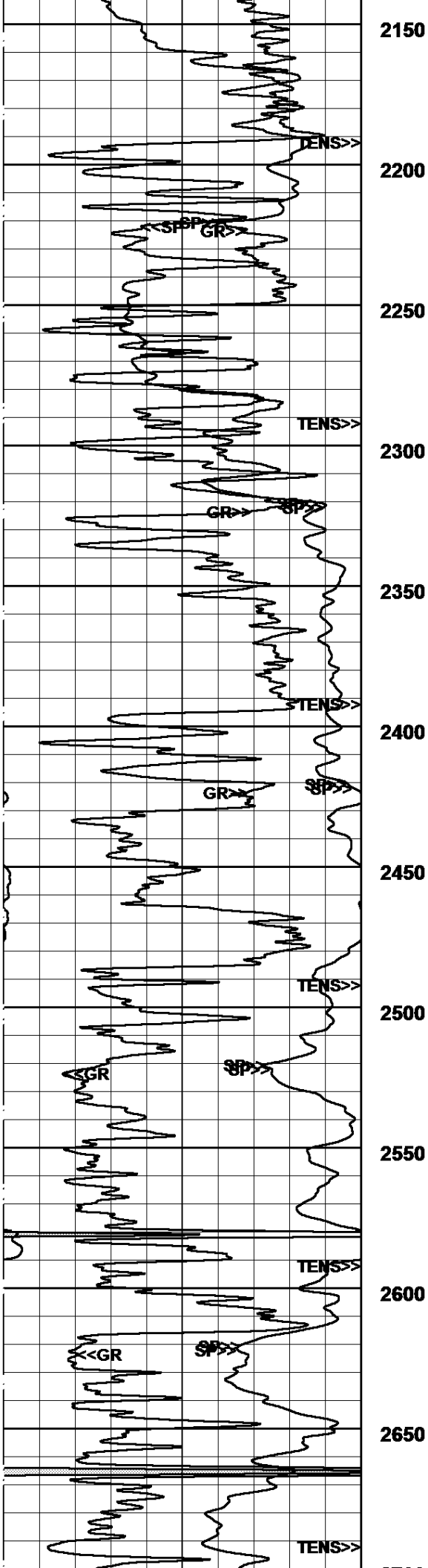
T-2
Transmitter 2

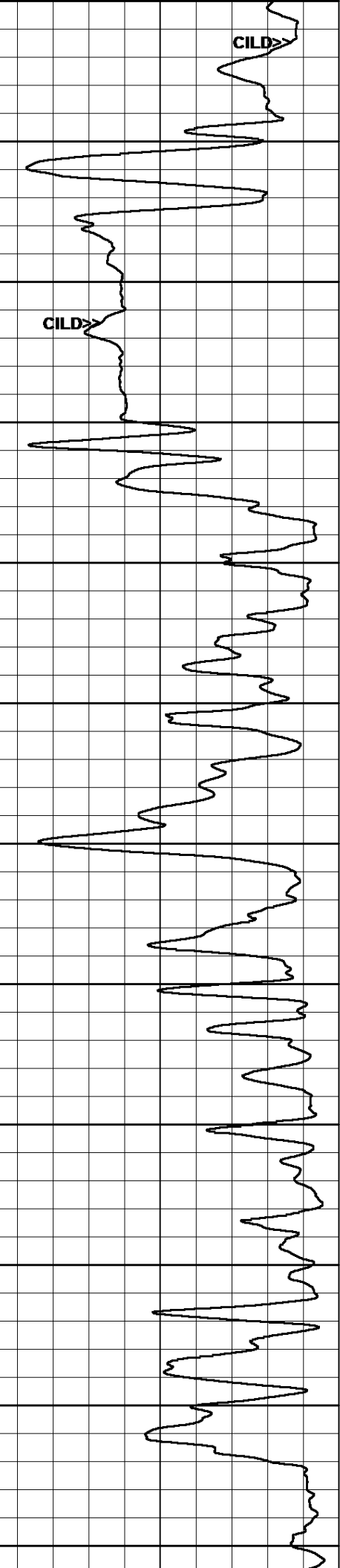
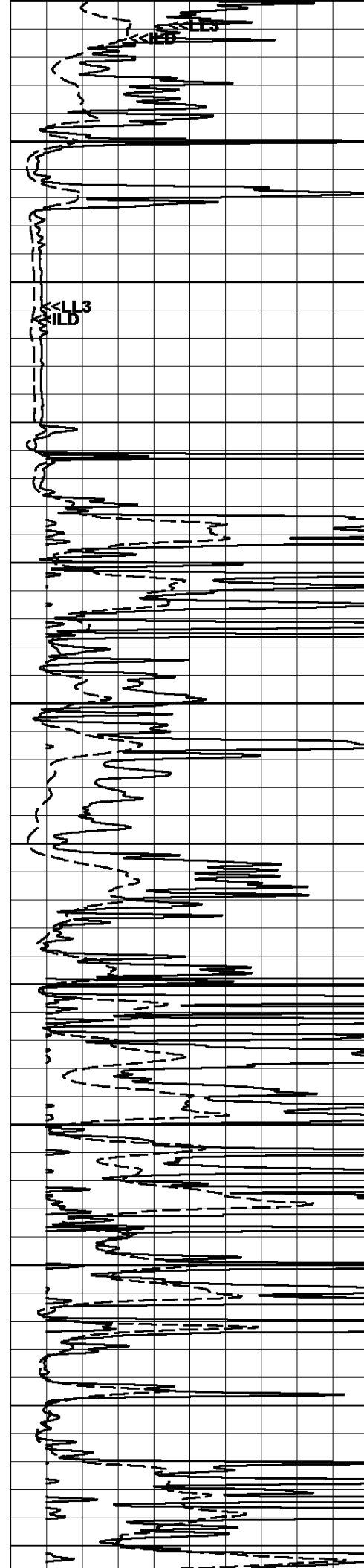
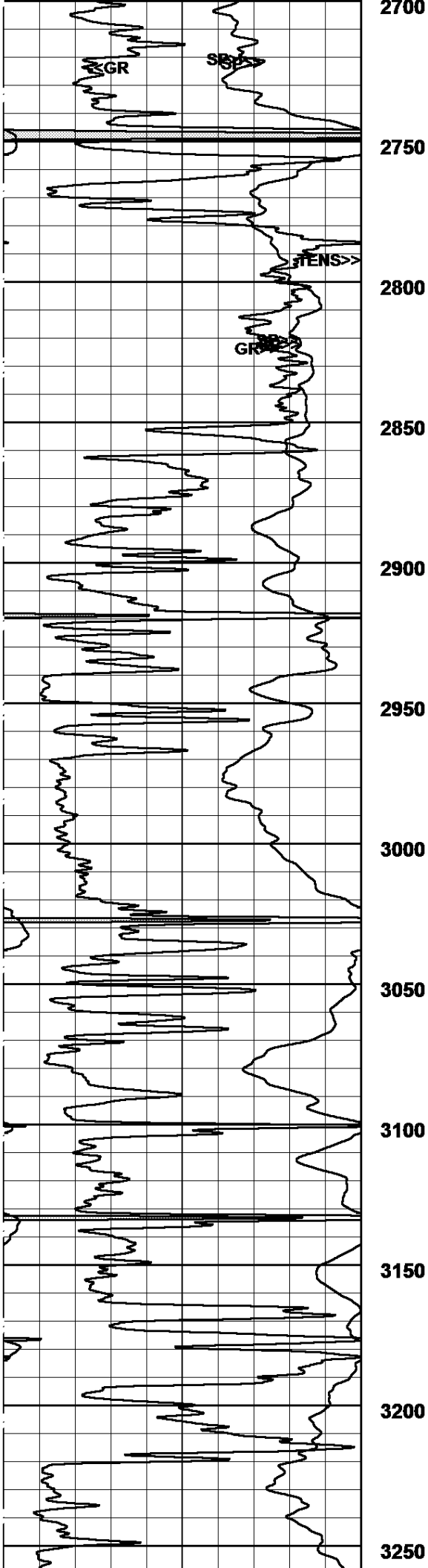


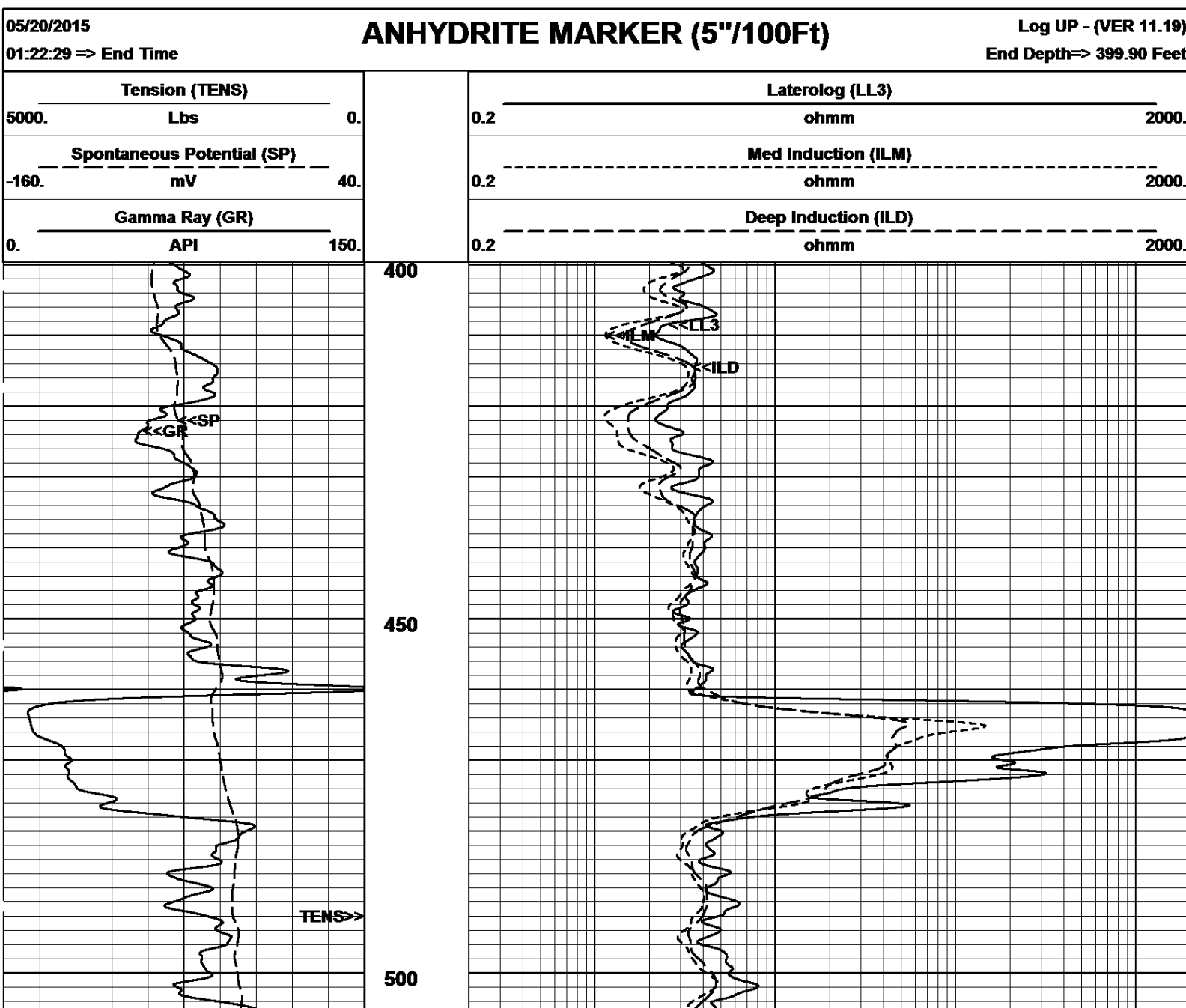
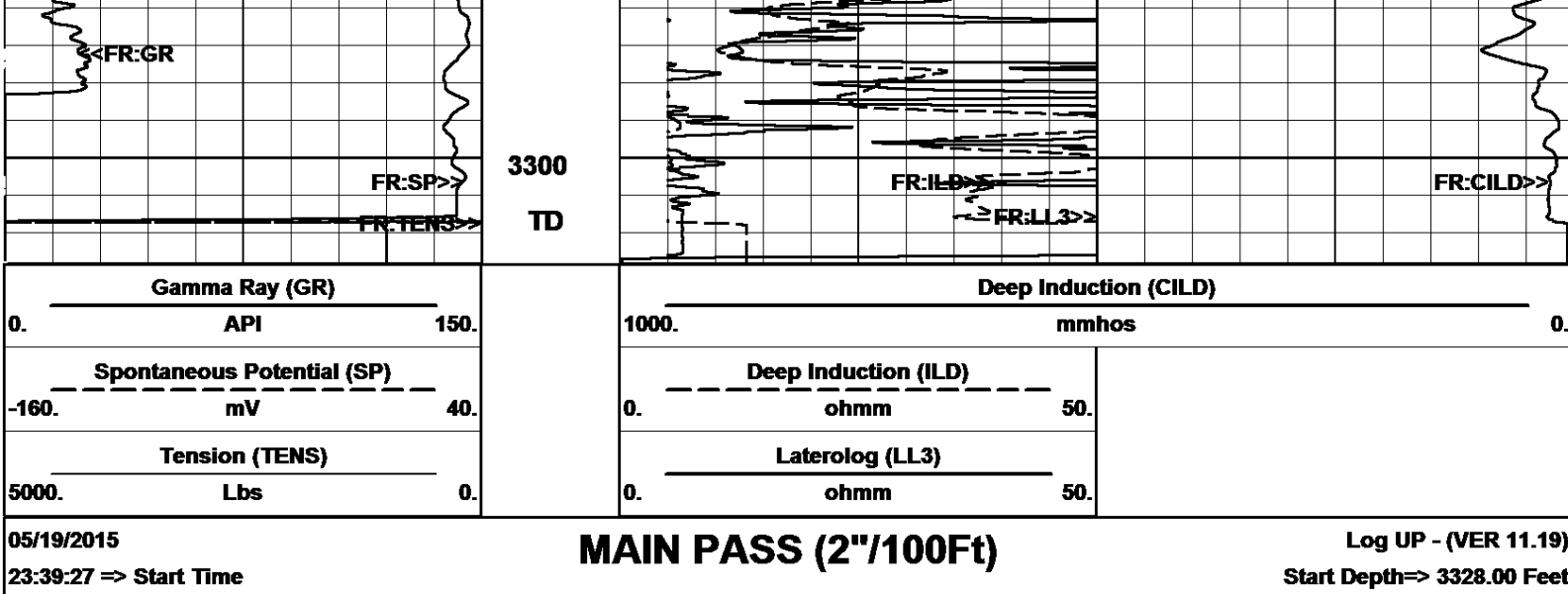


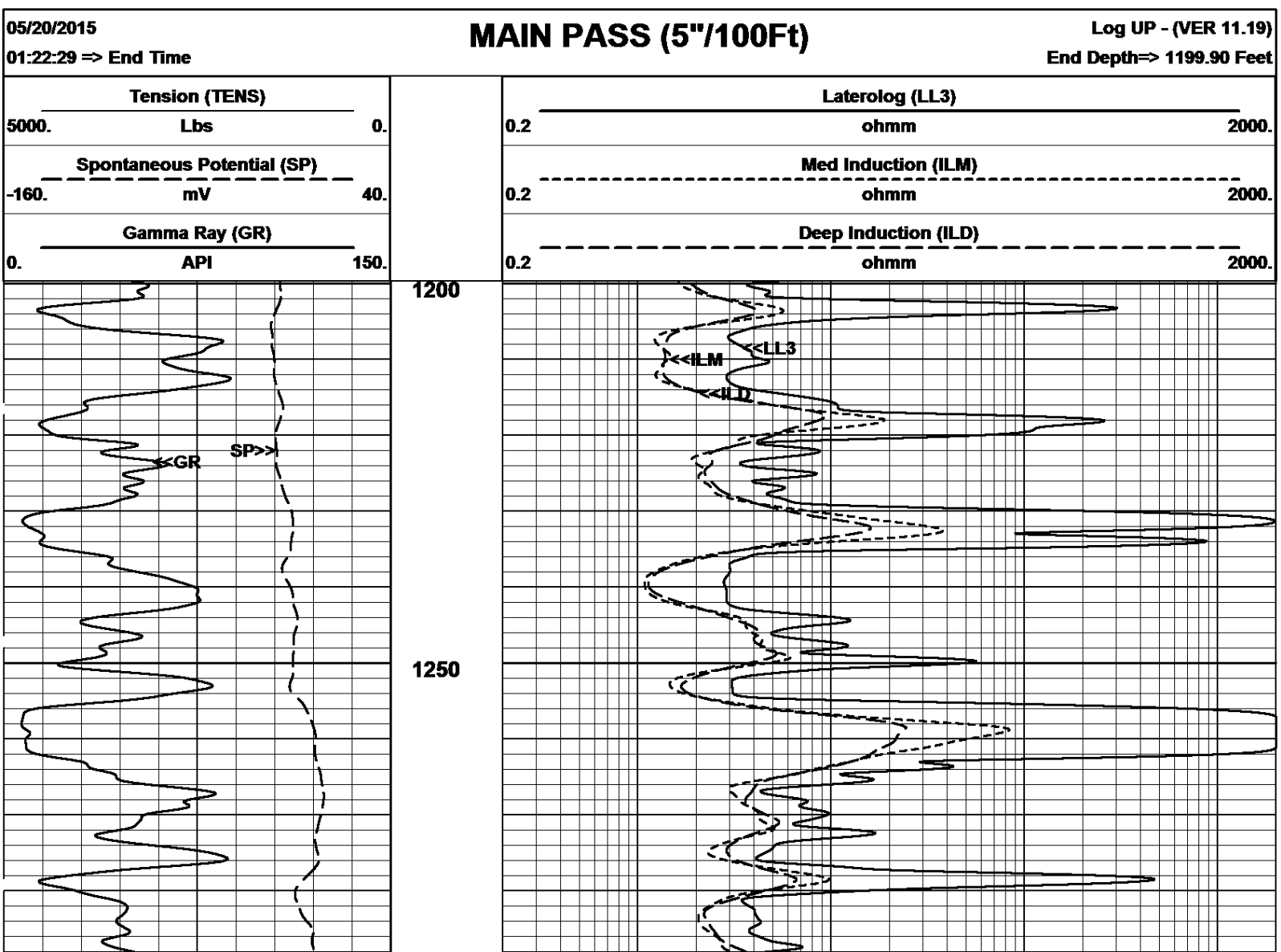
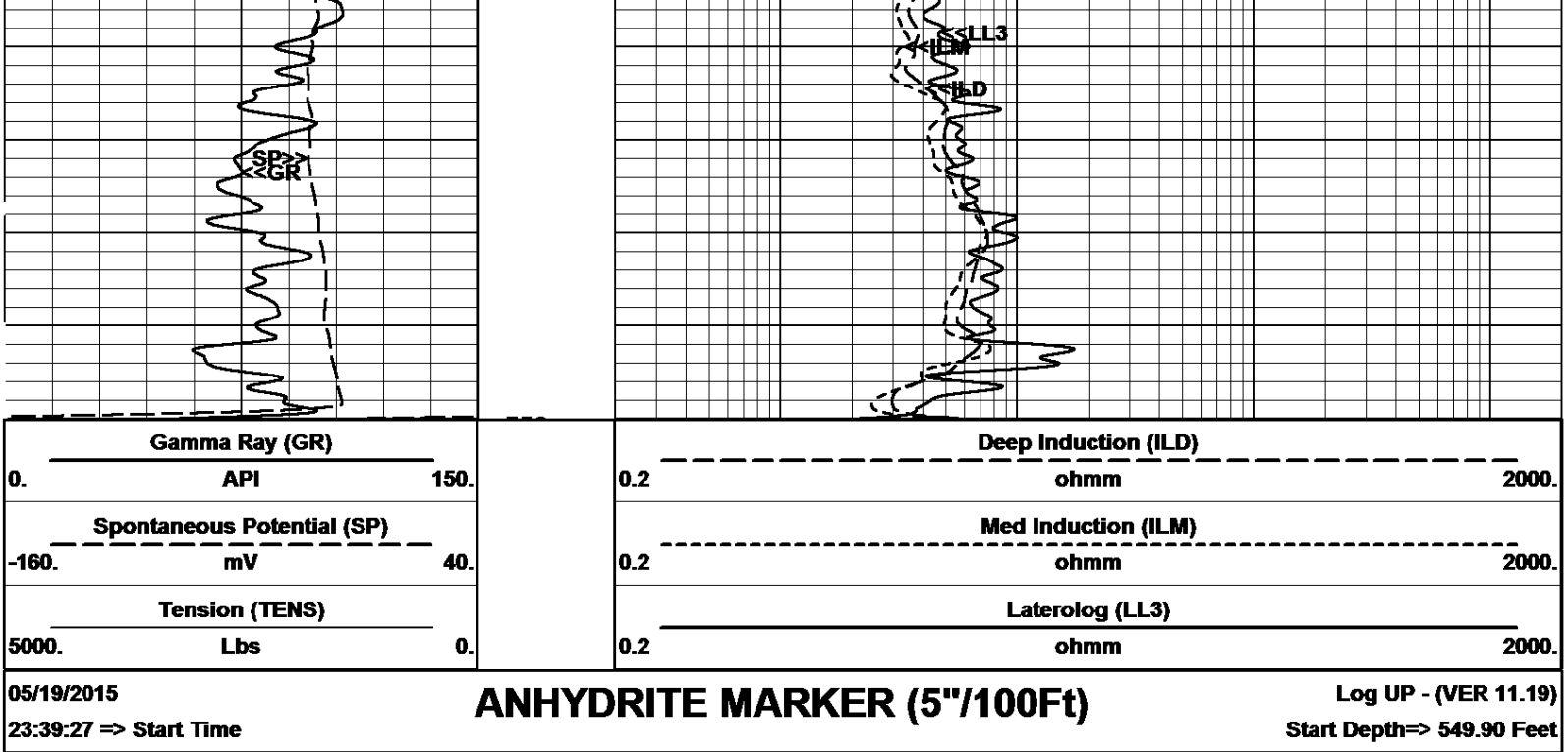


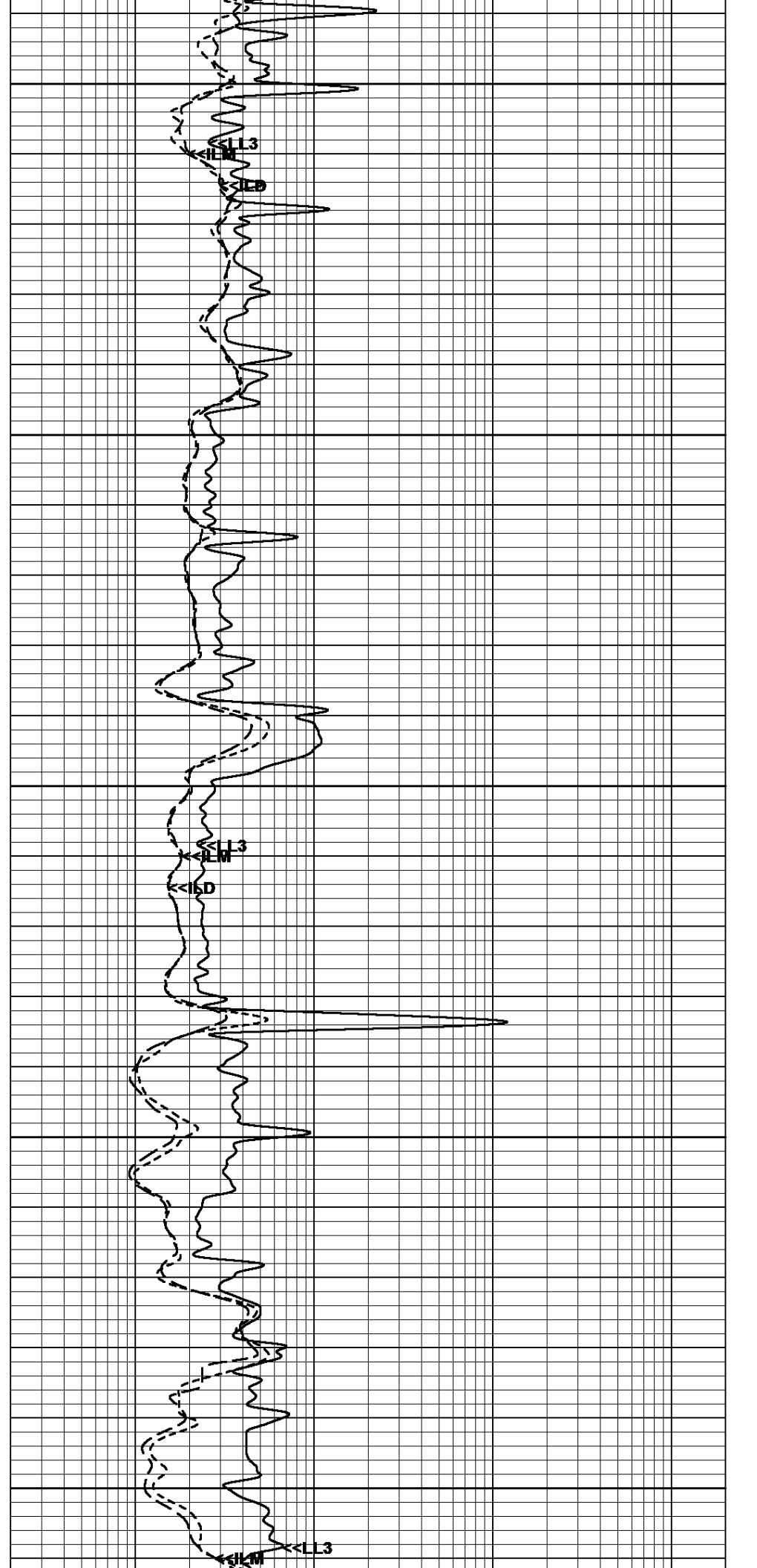
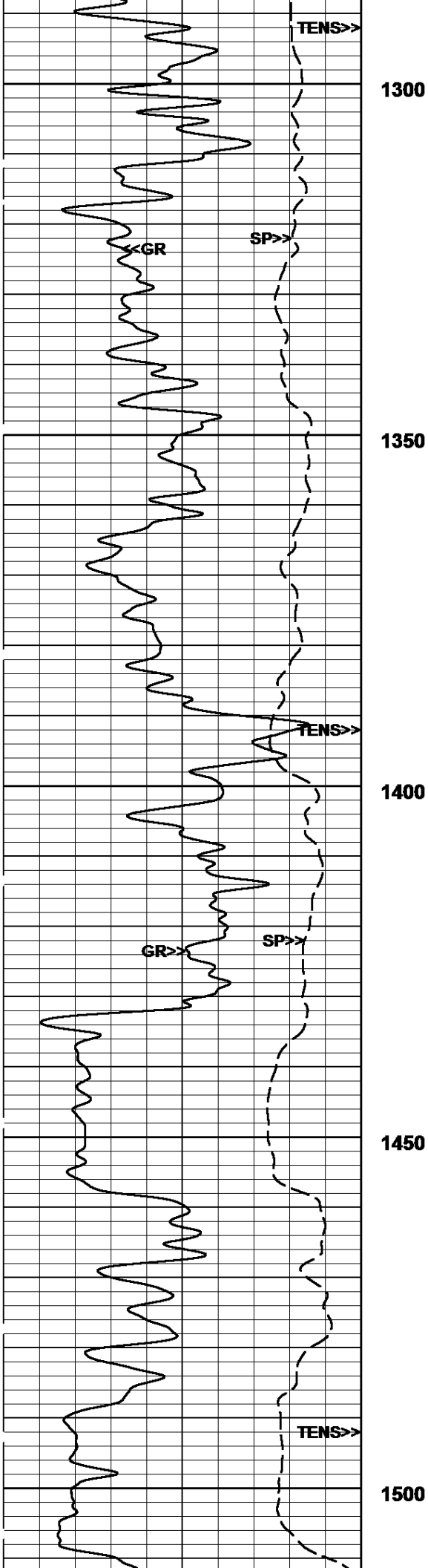


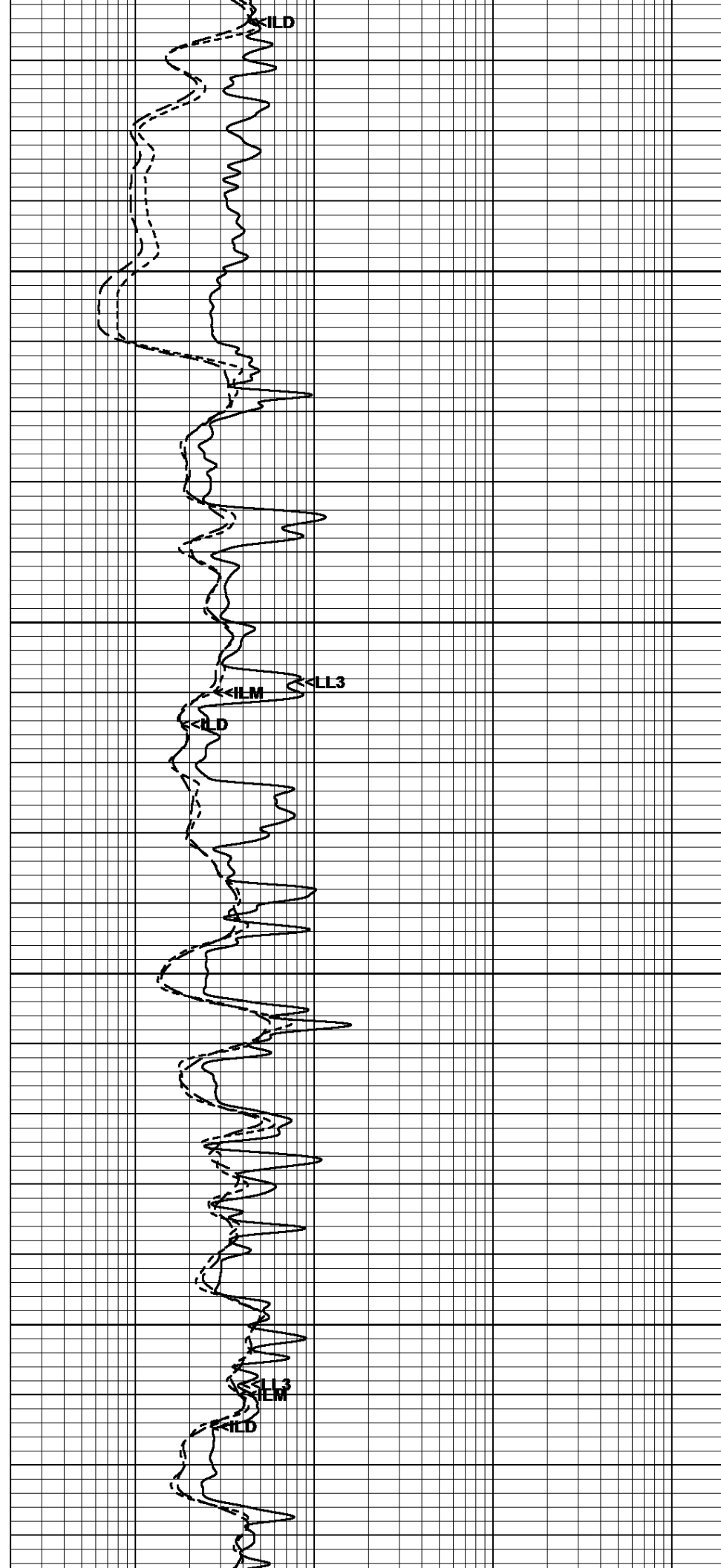
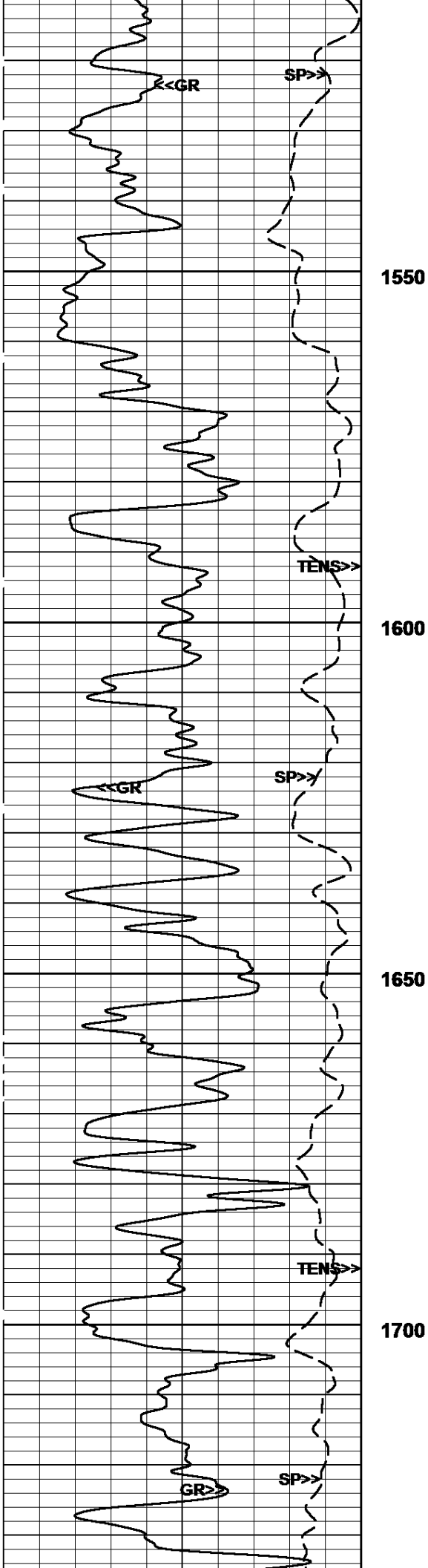


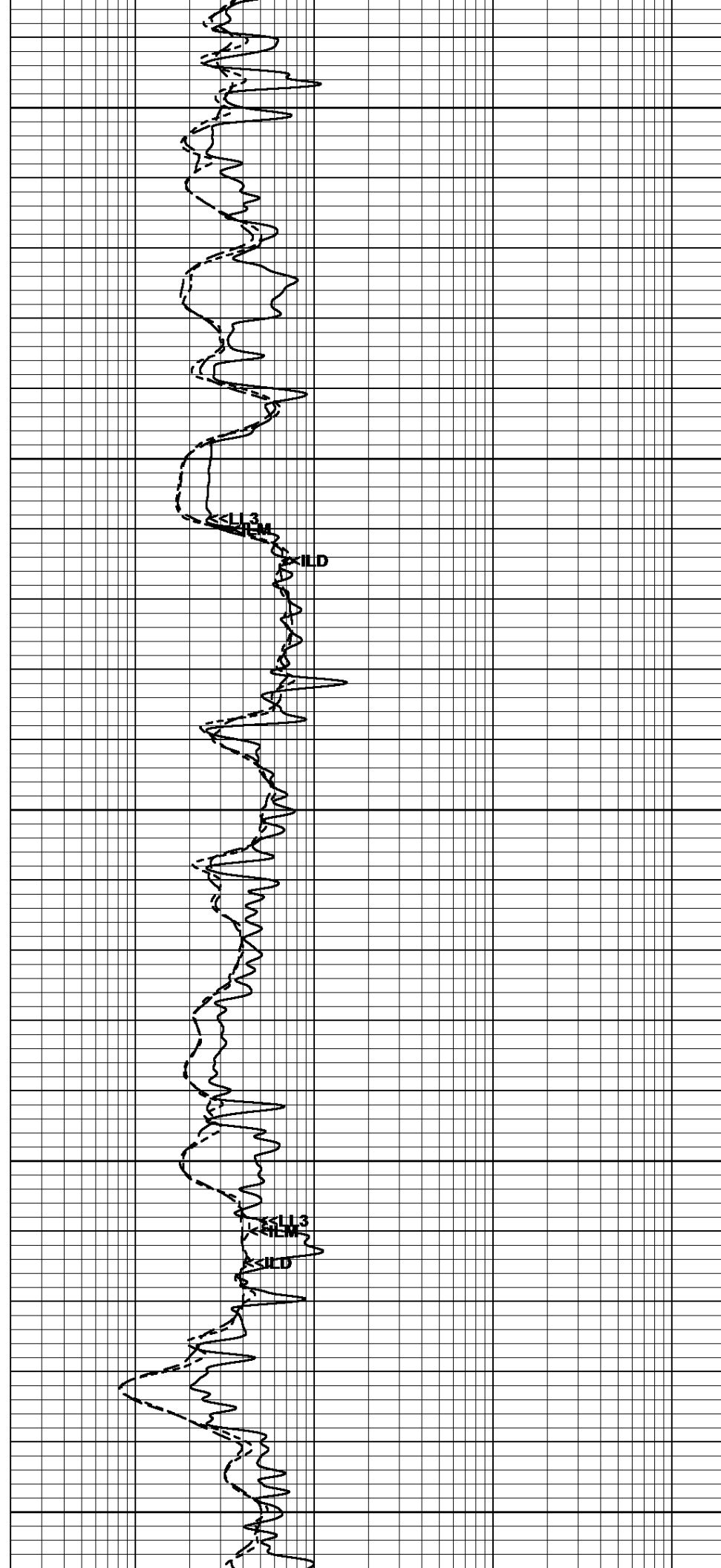
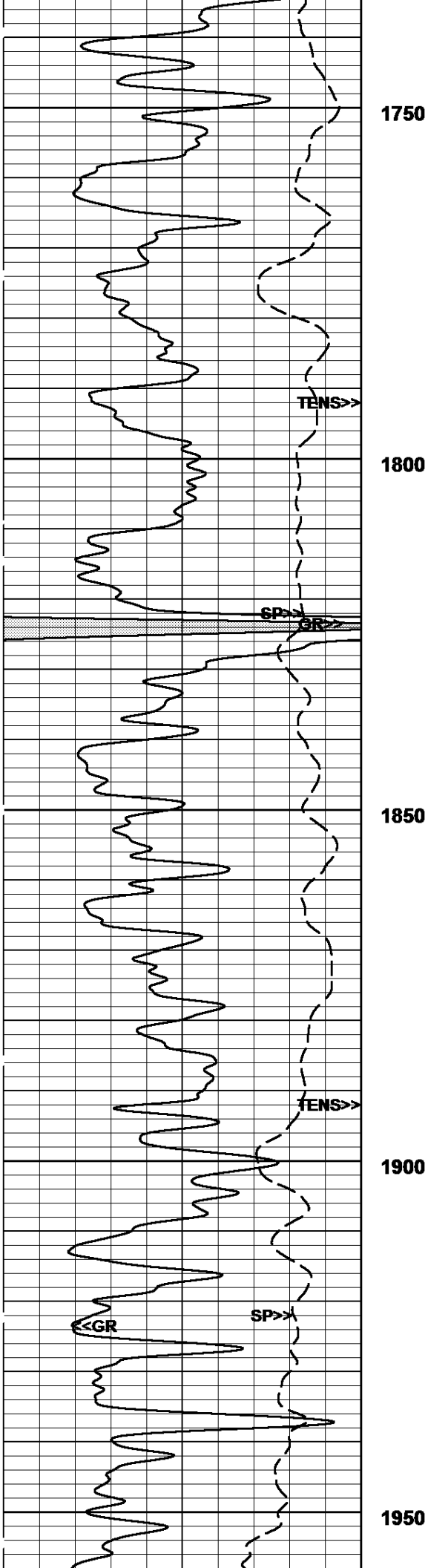


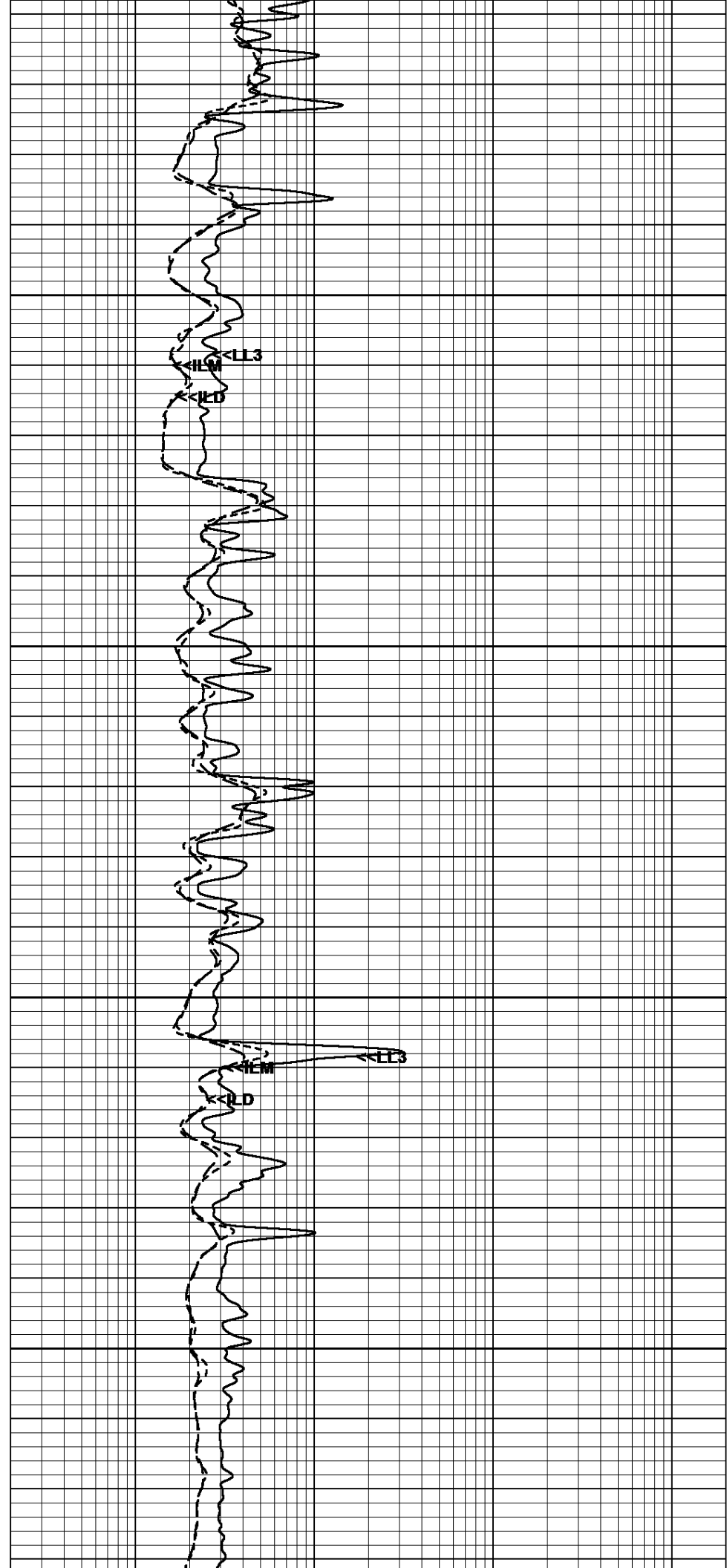
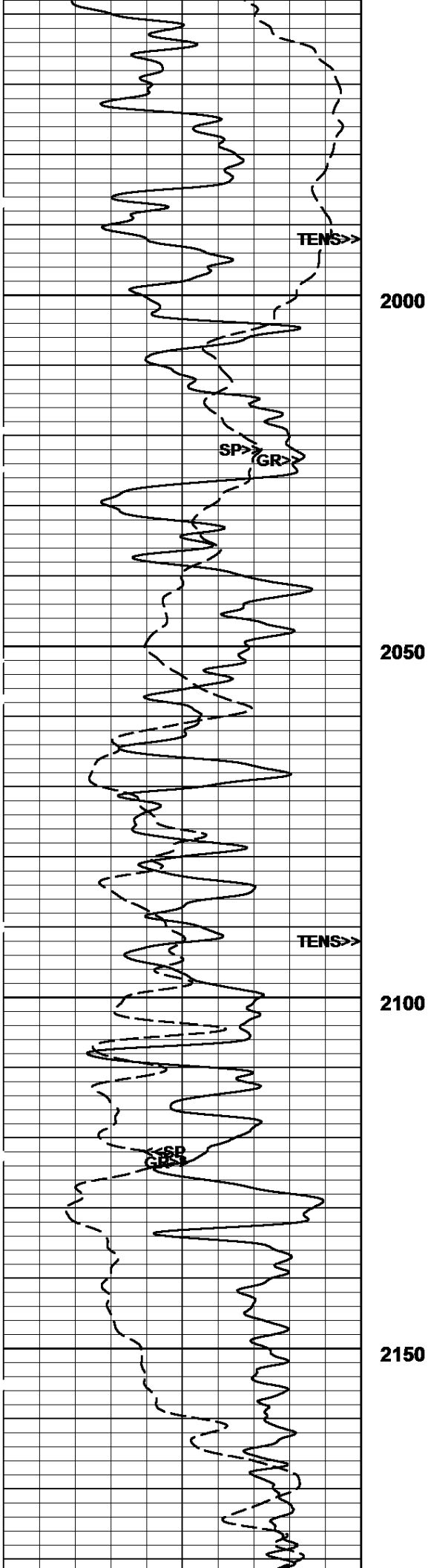


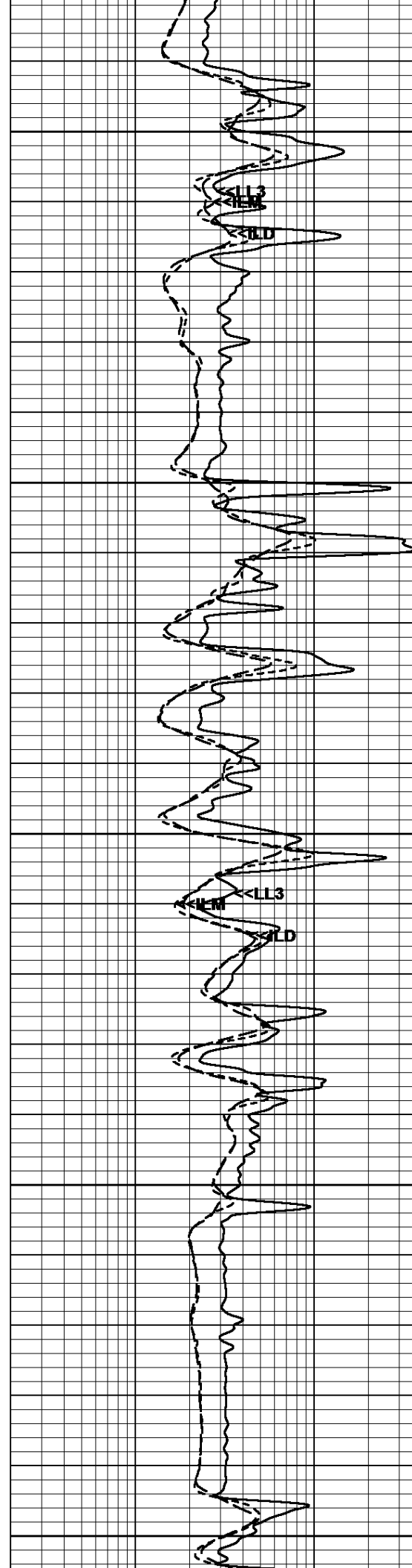
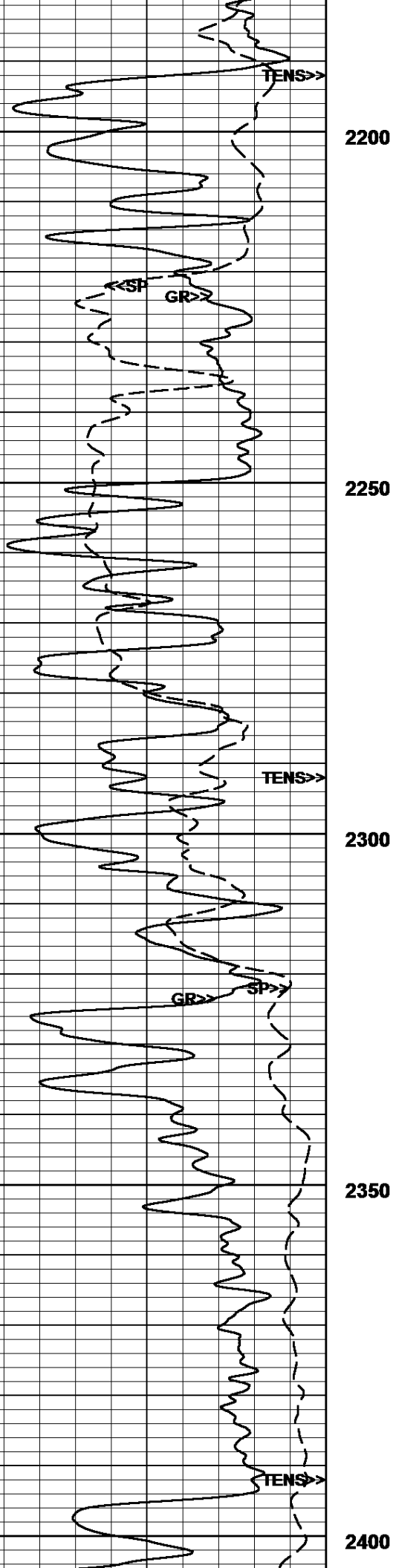


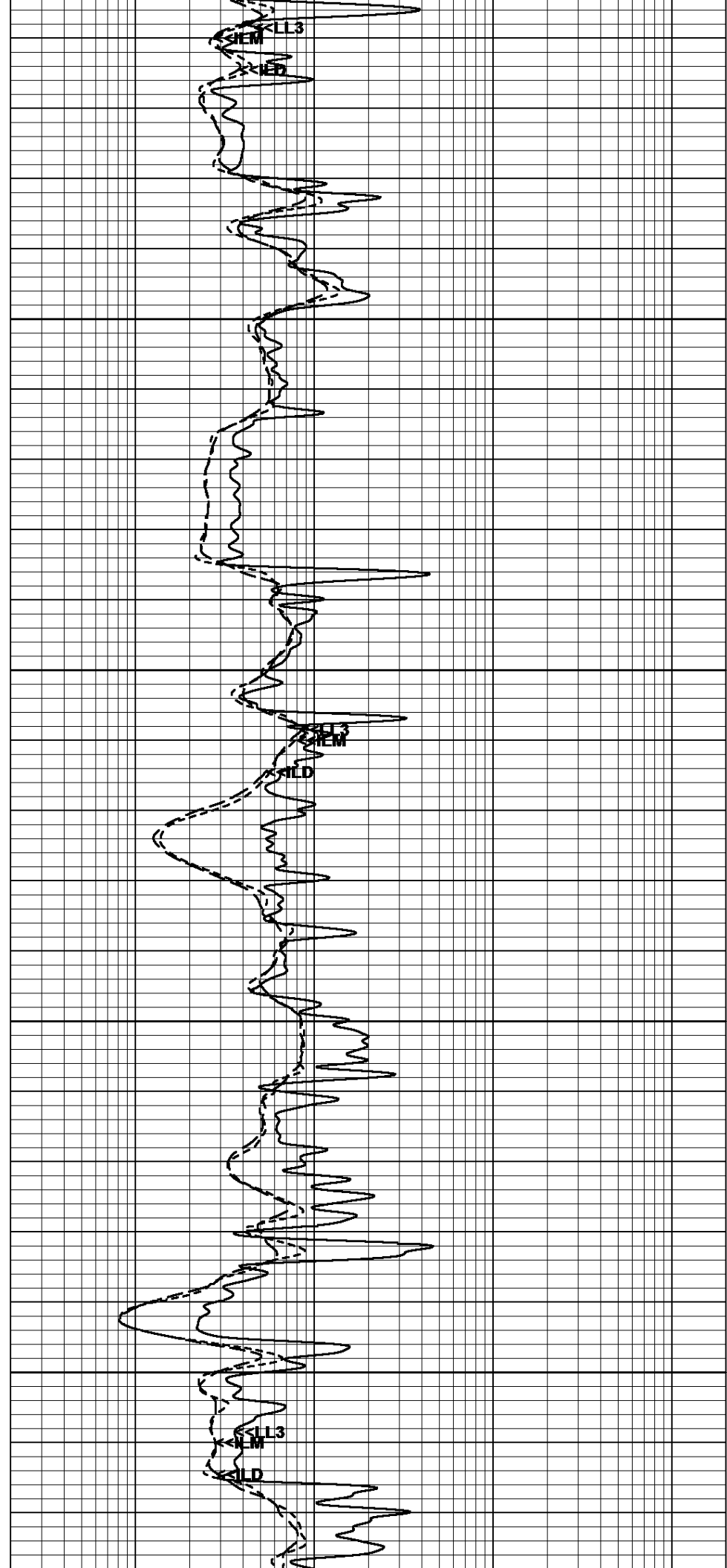
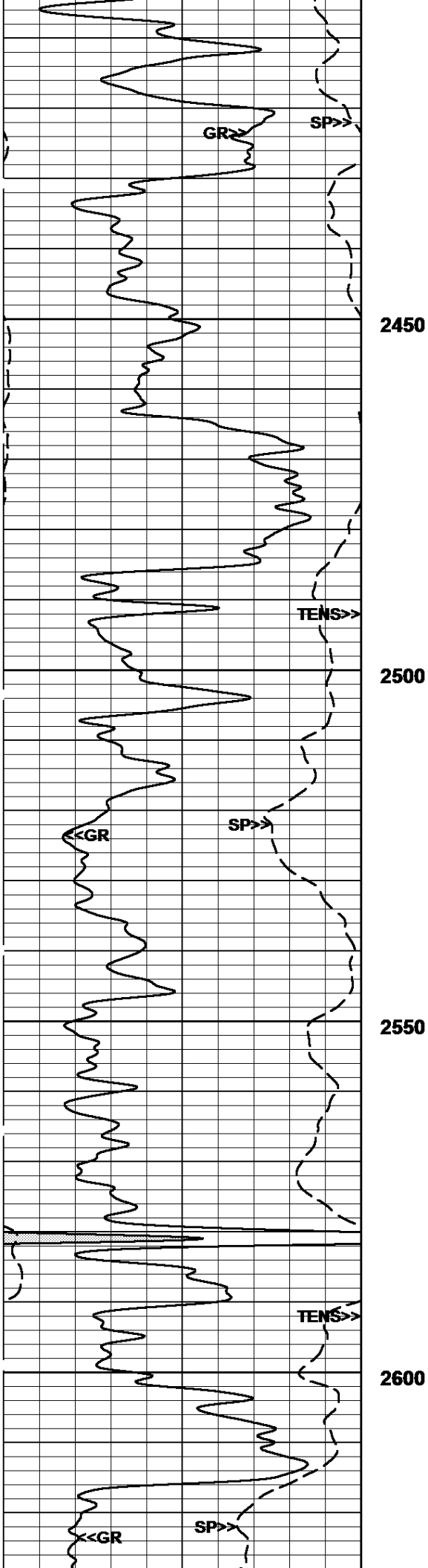


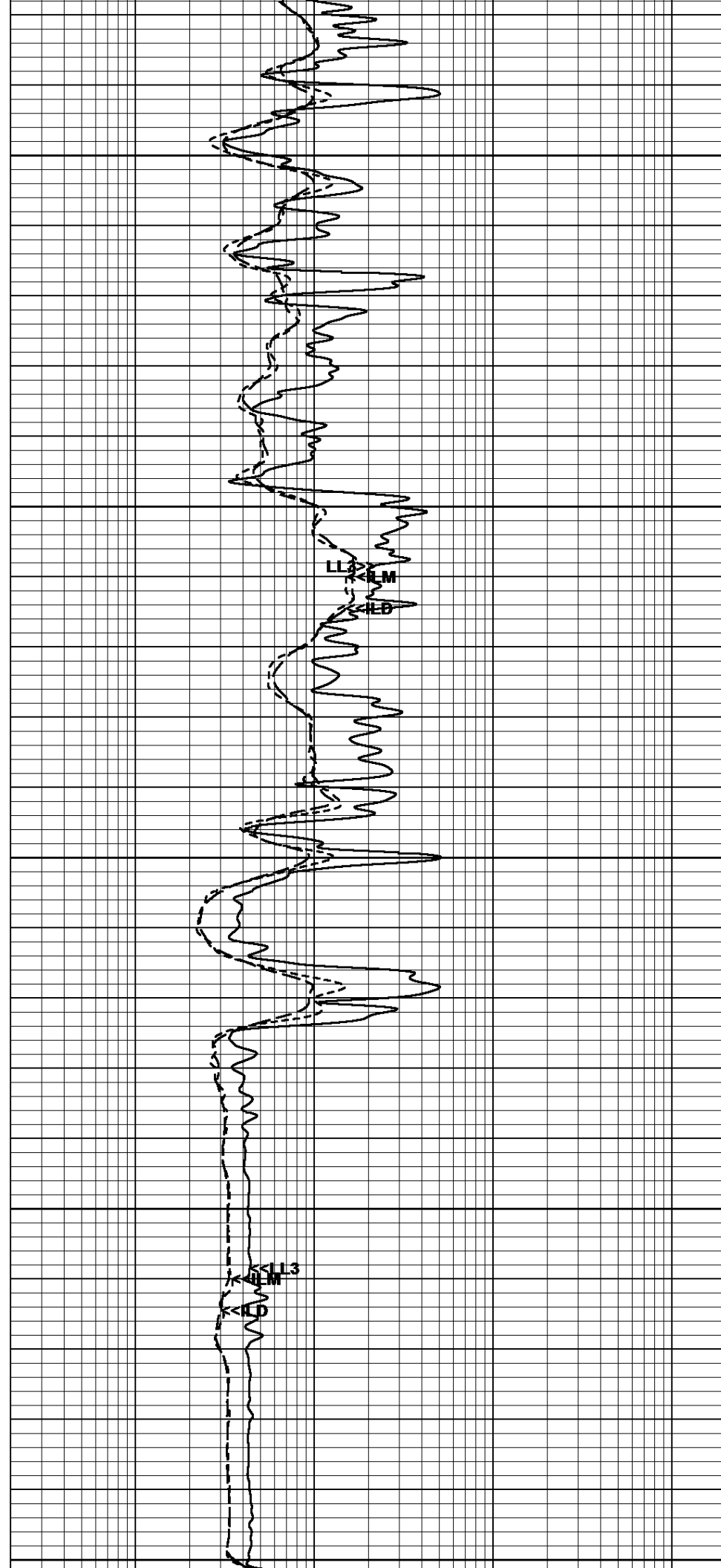
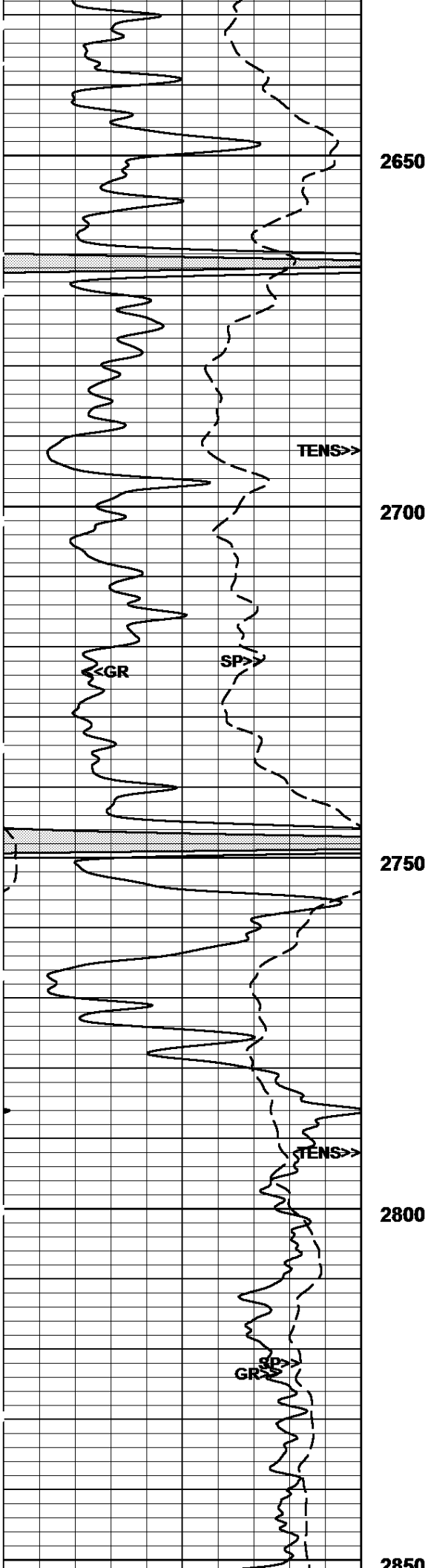


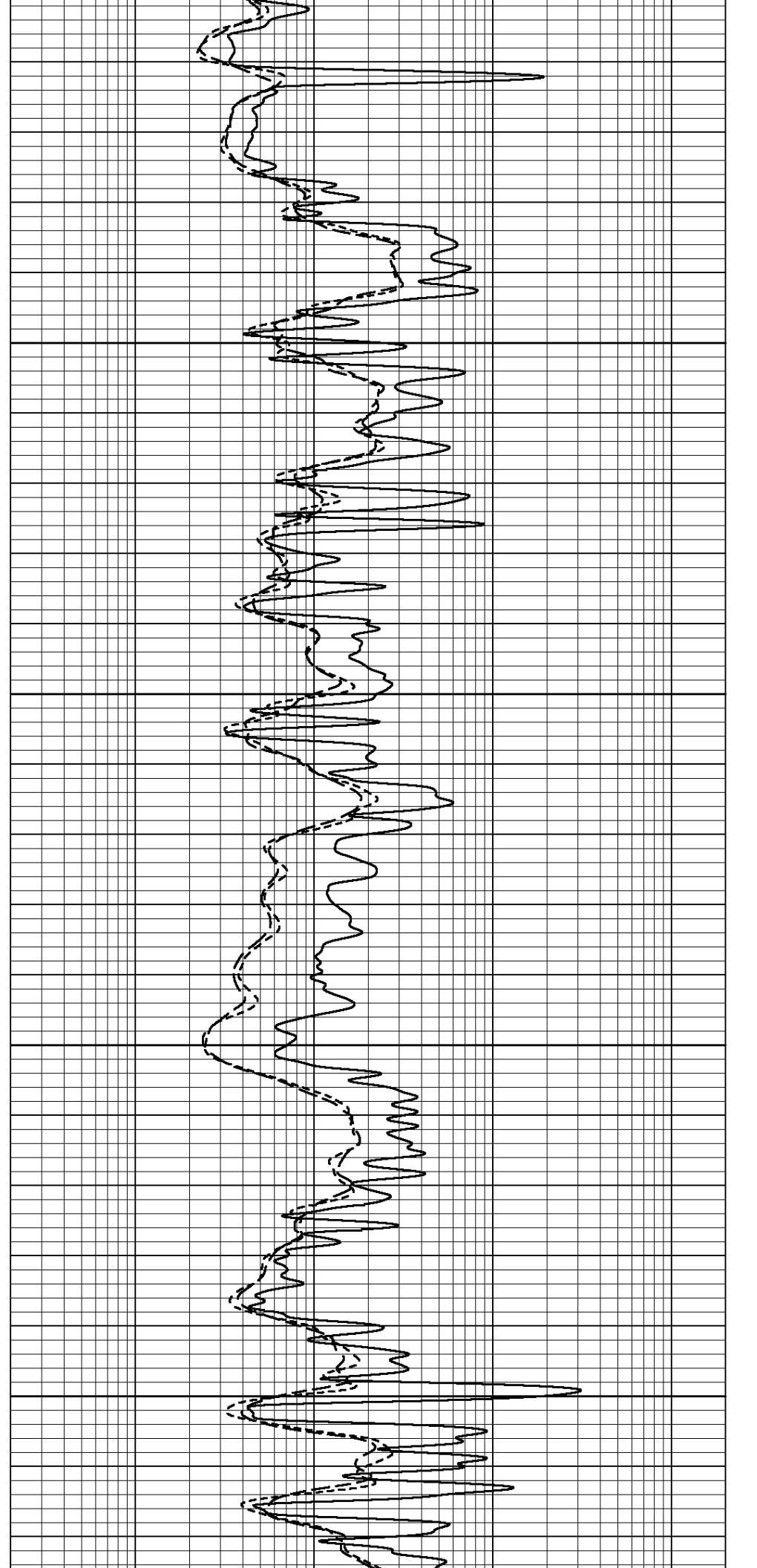
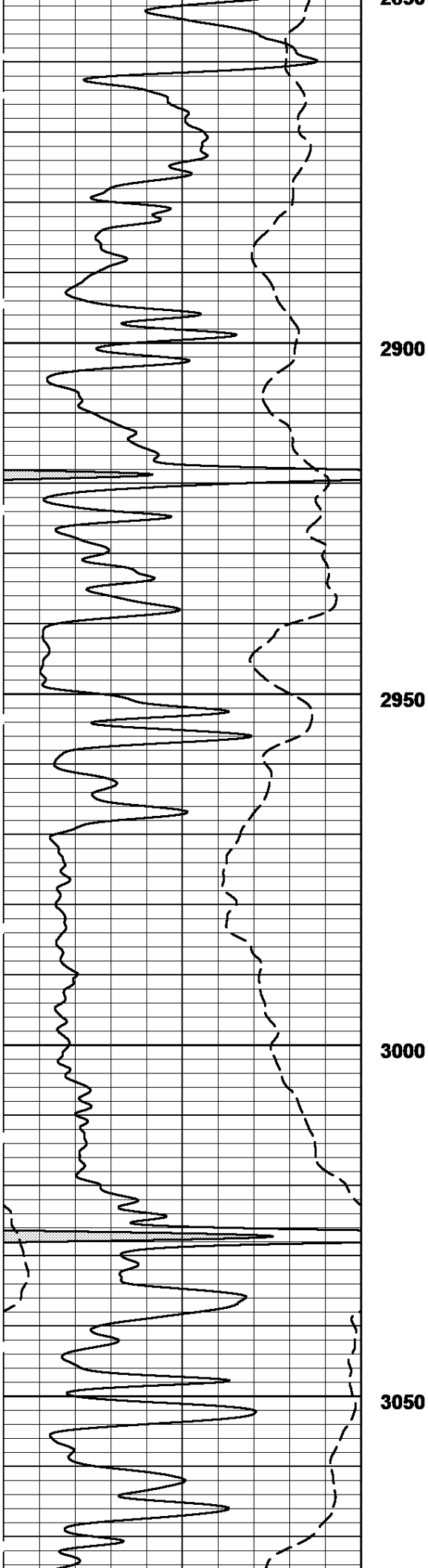


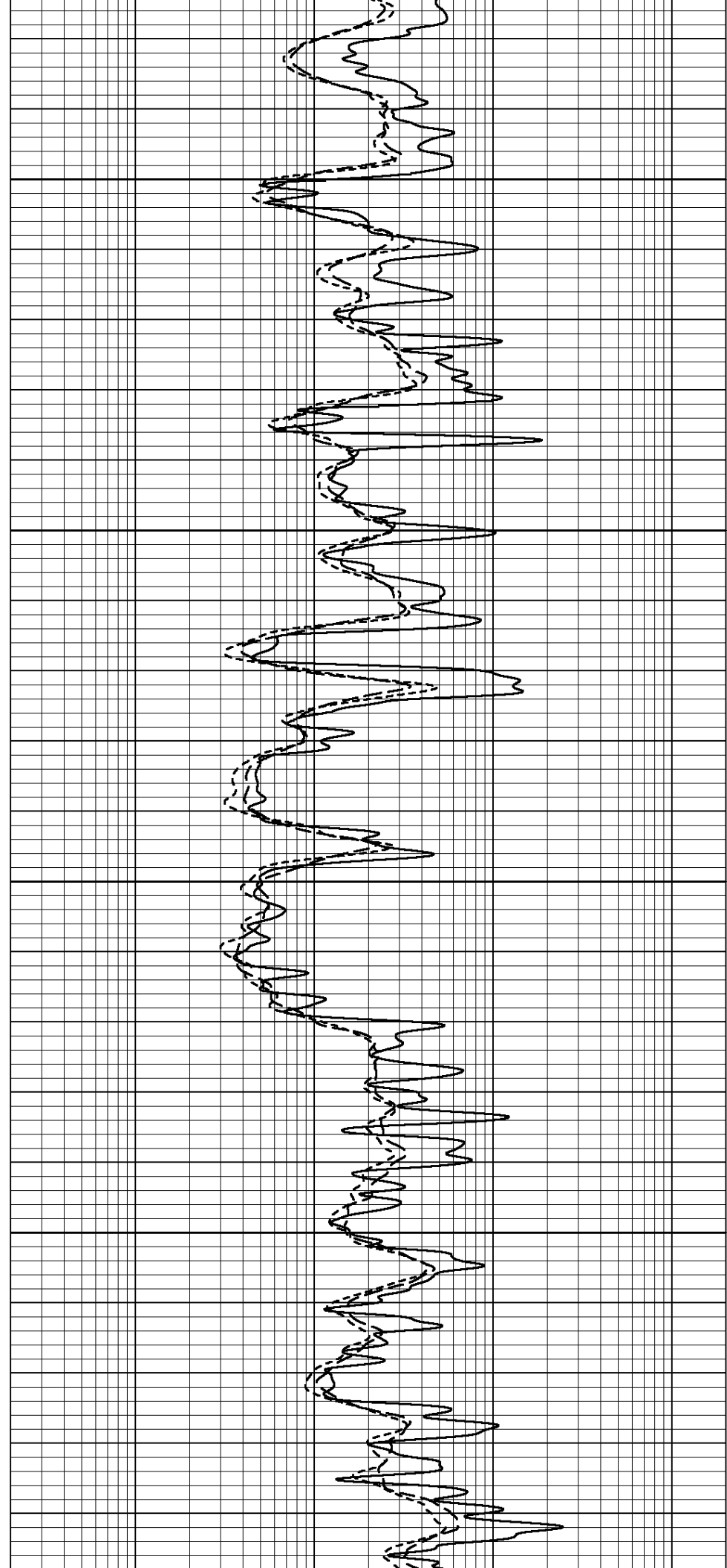
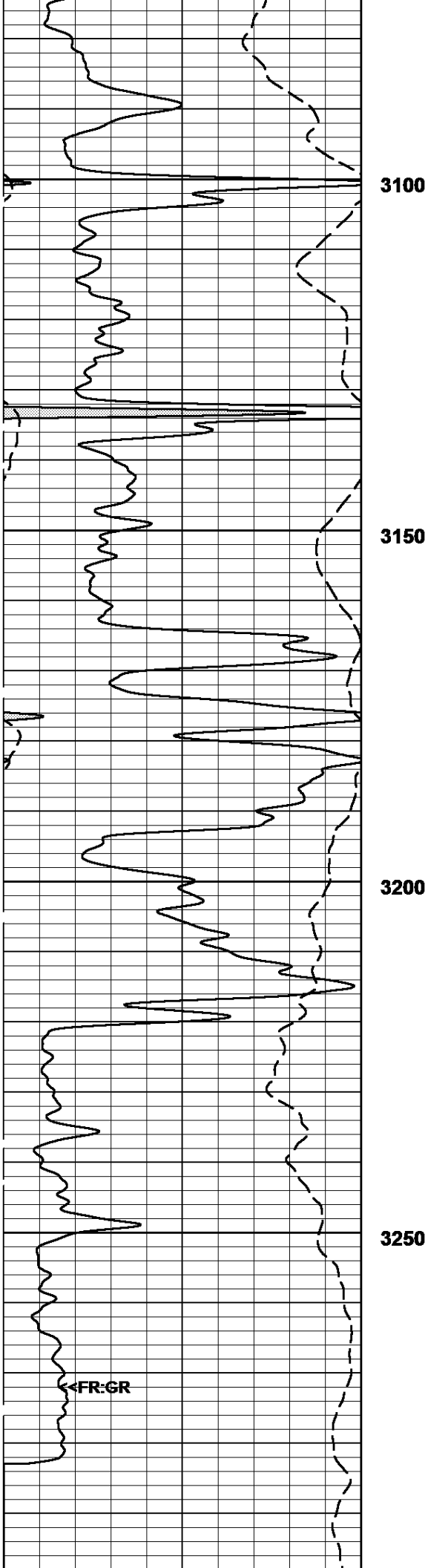


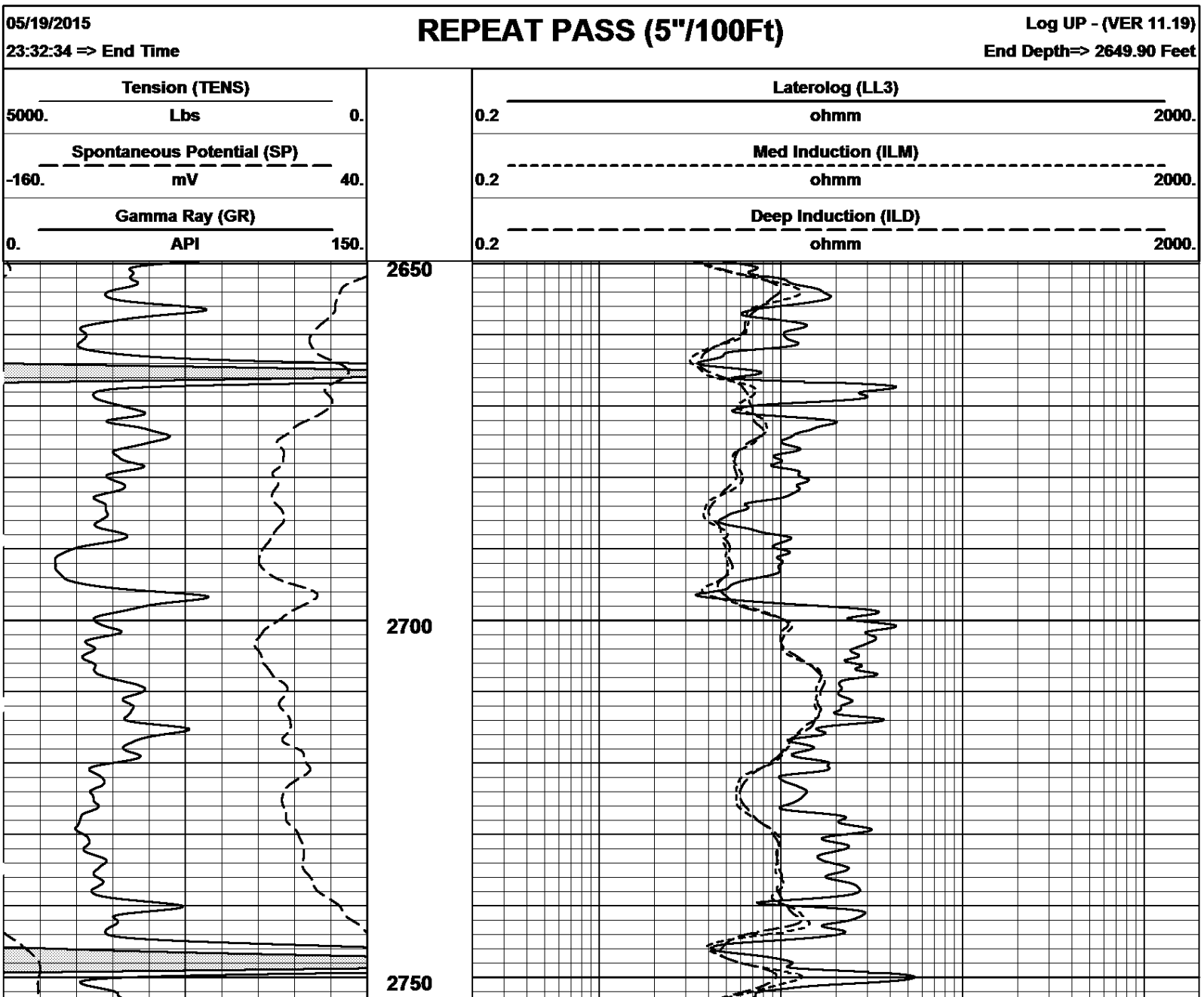
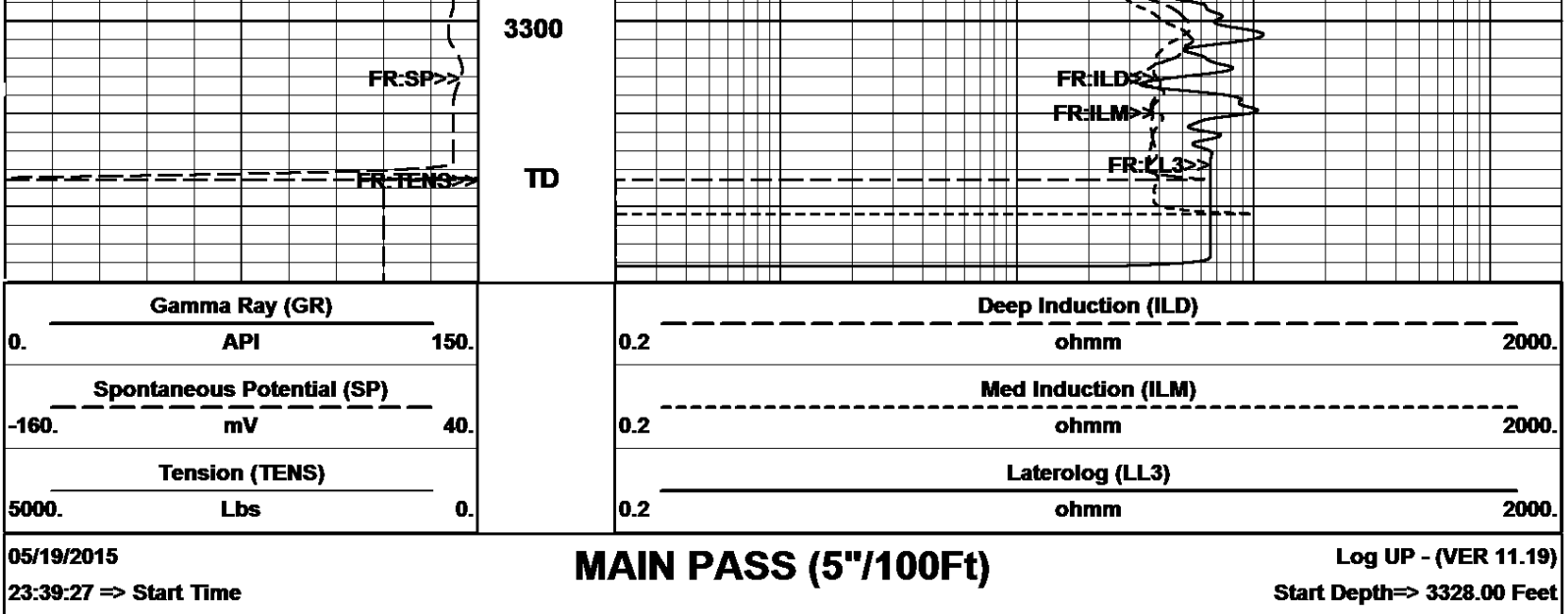


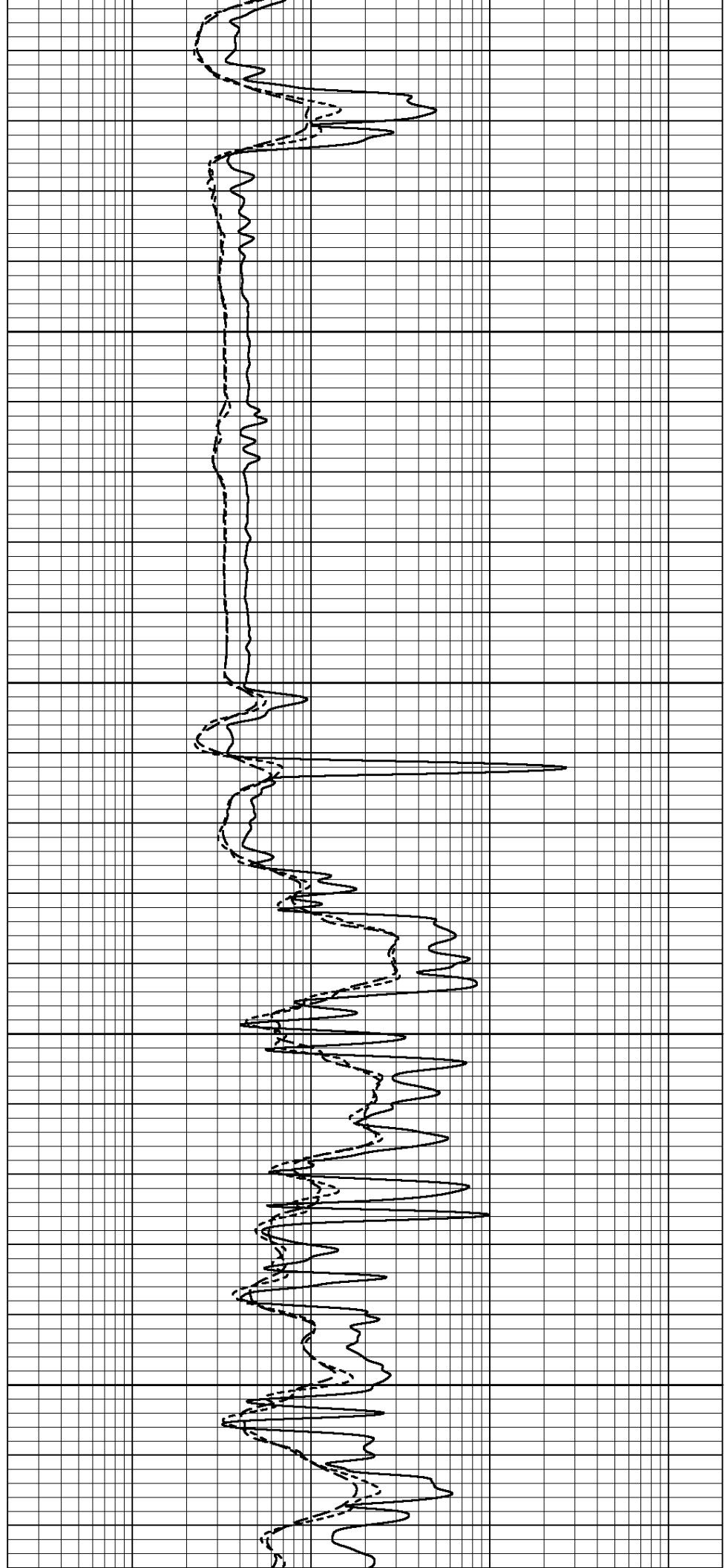
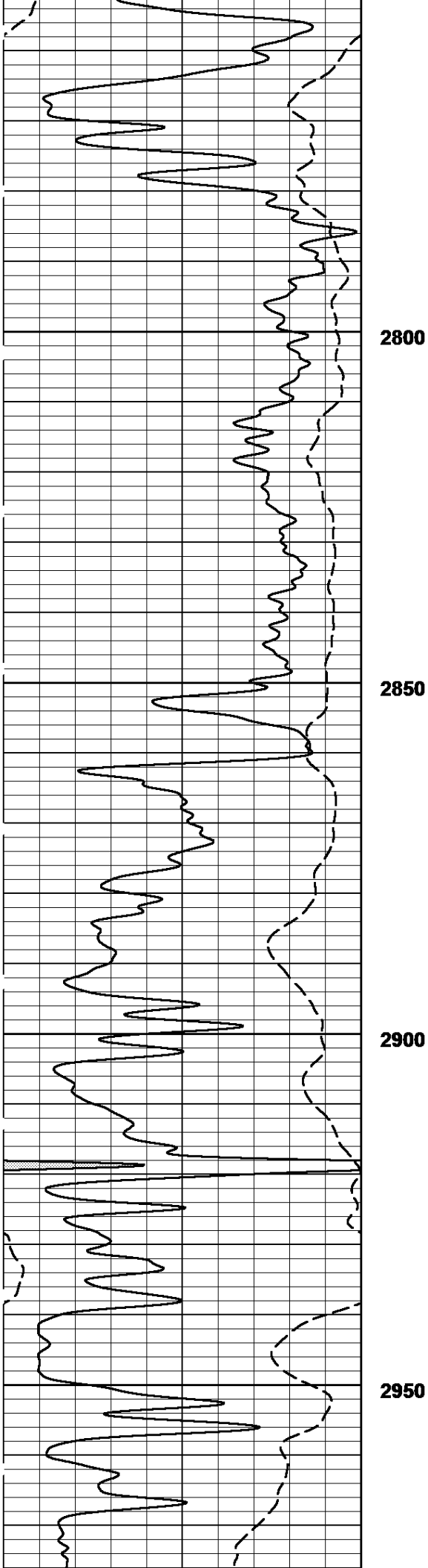


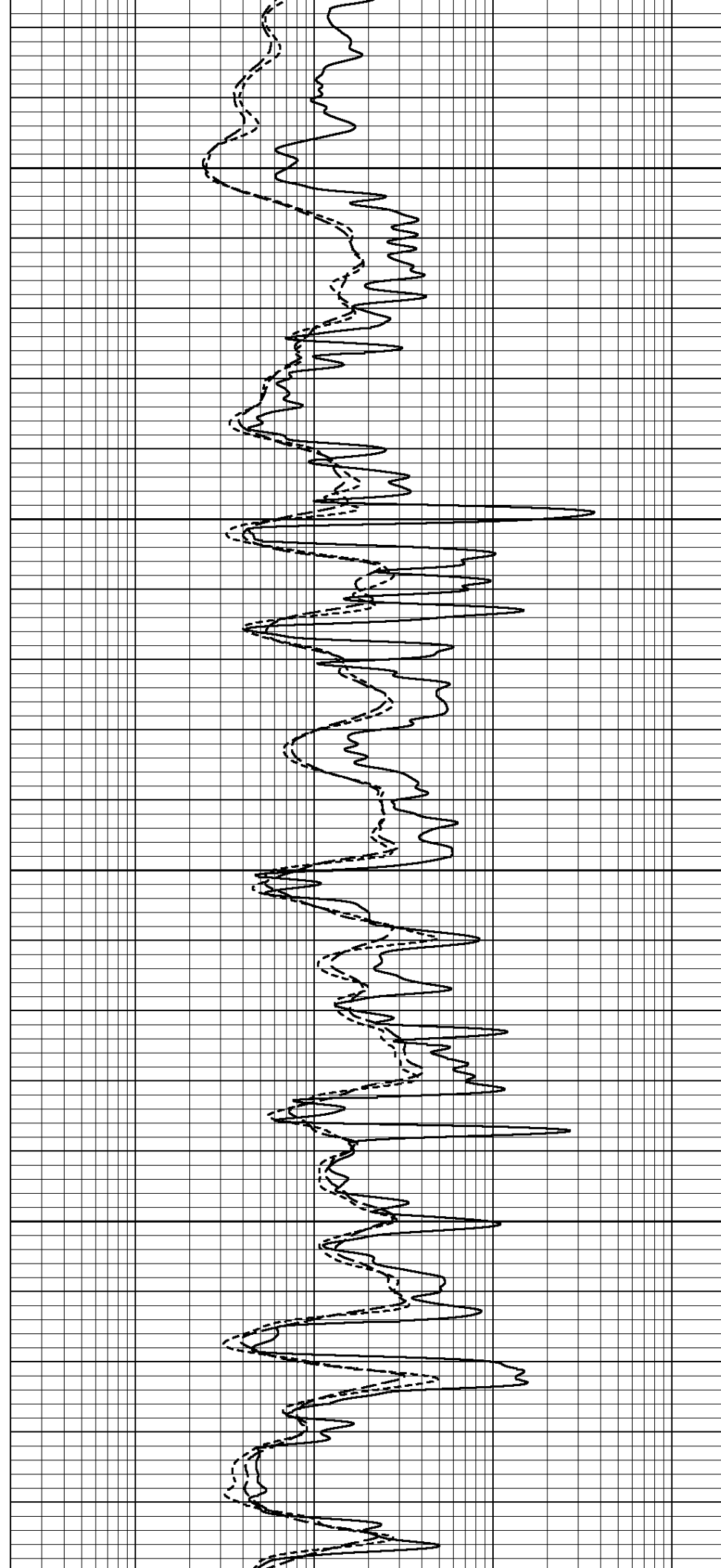
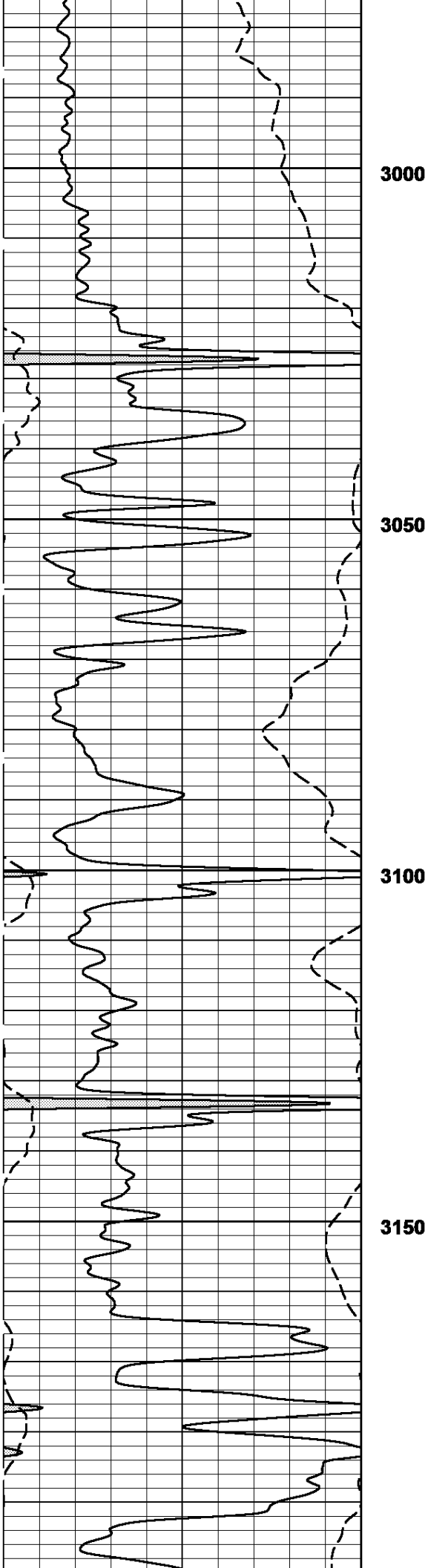


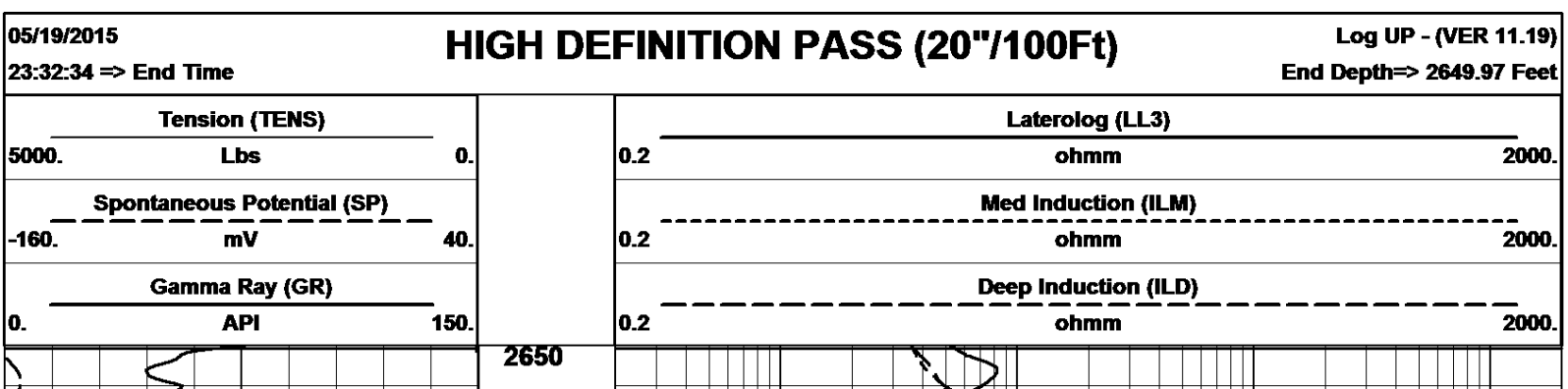
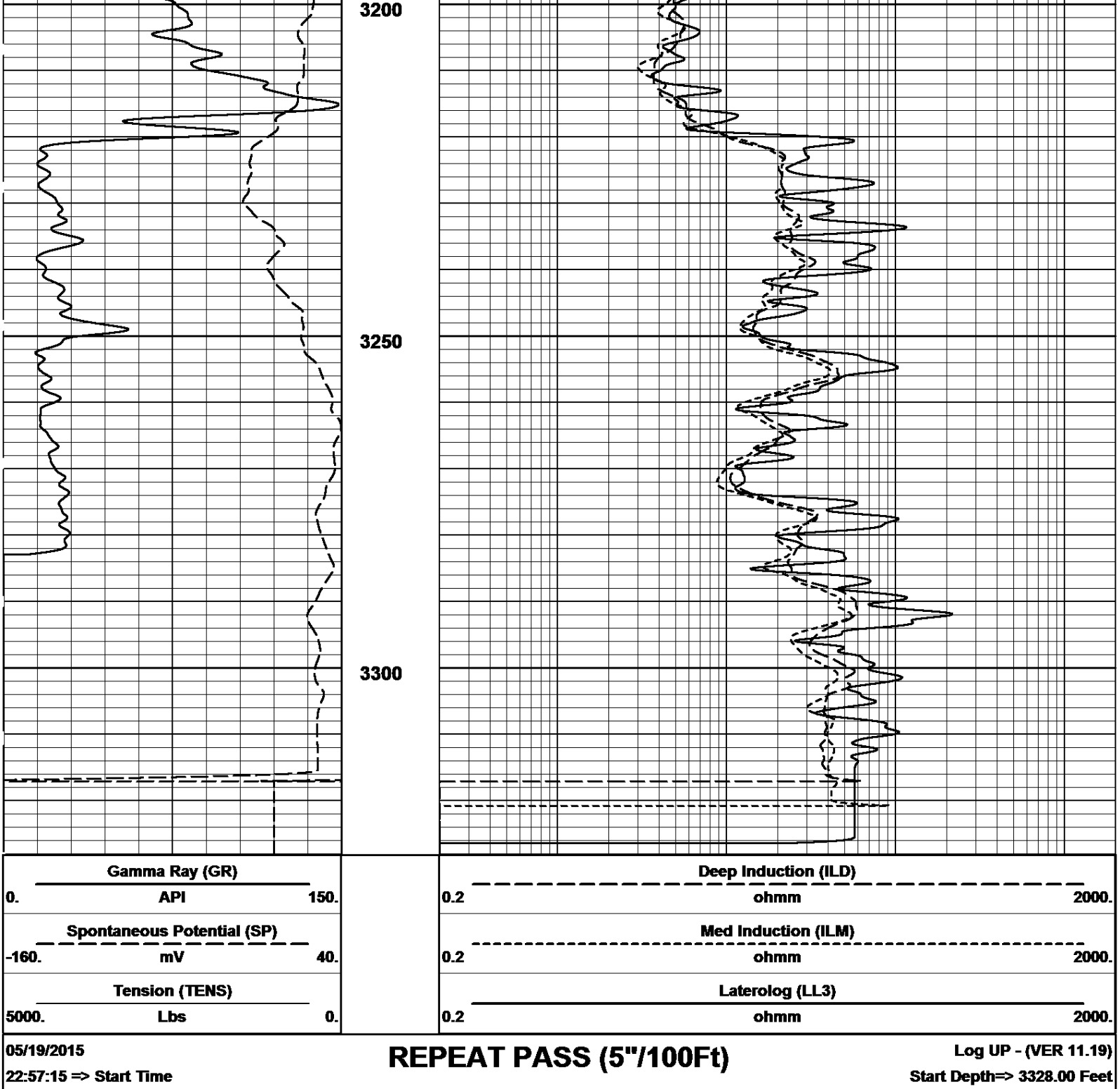


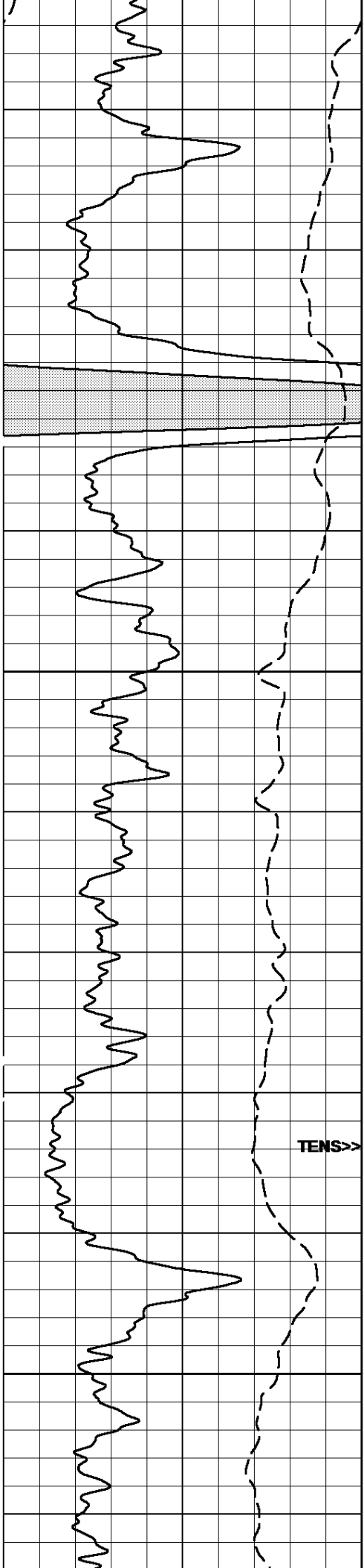






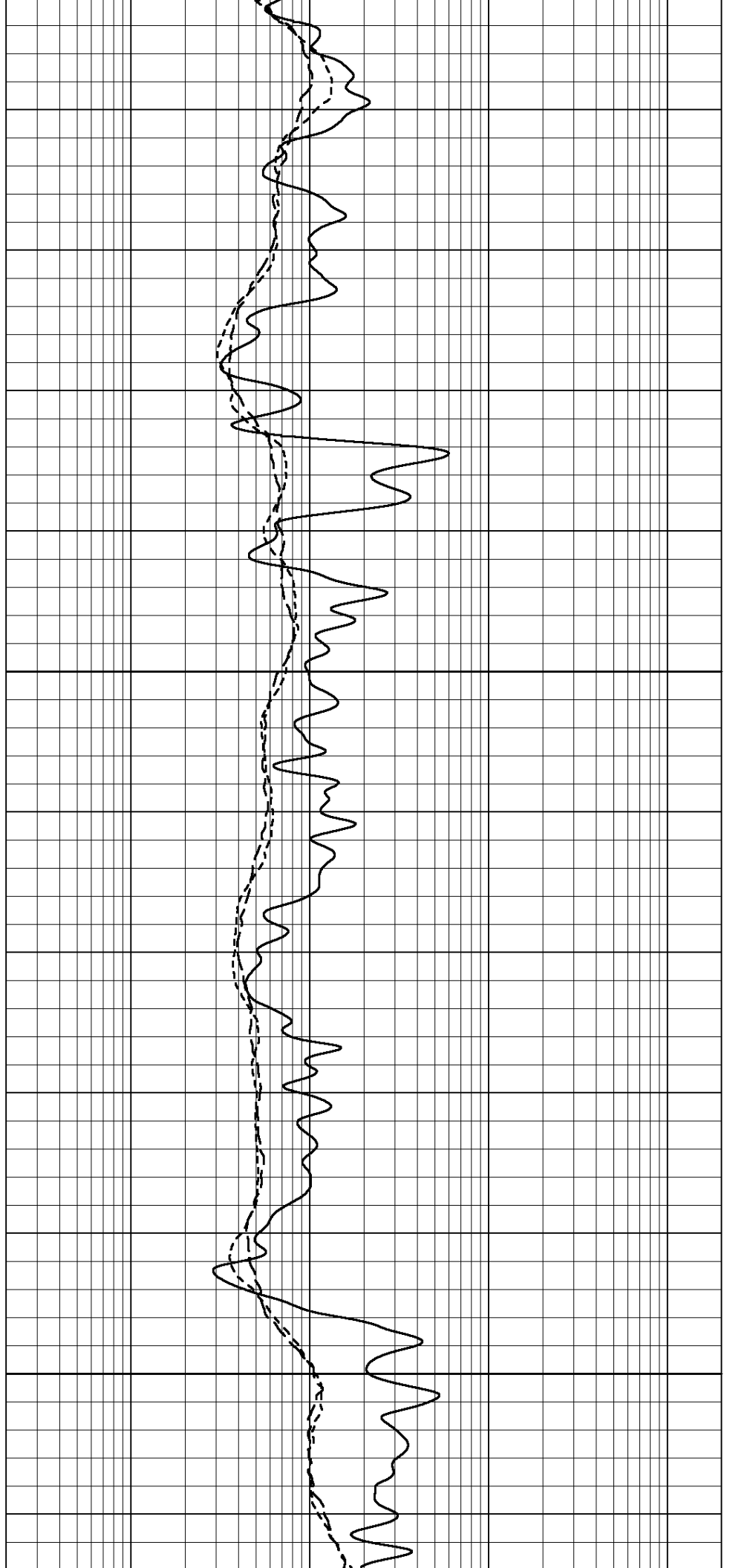


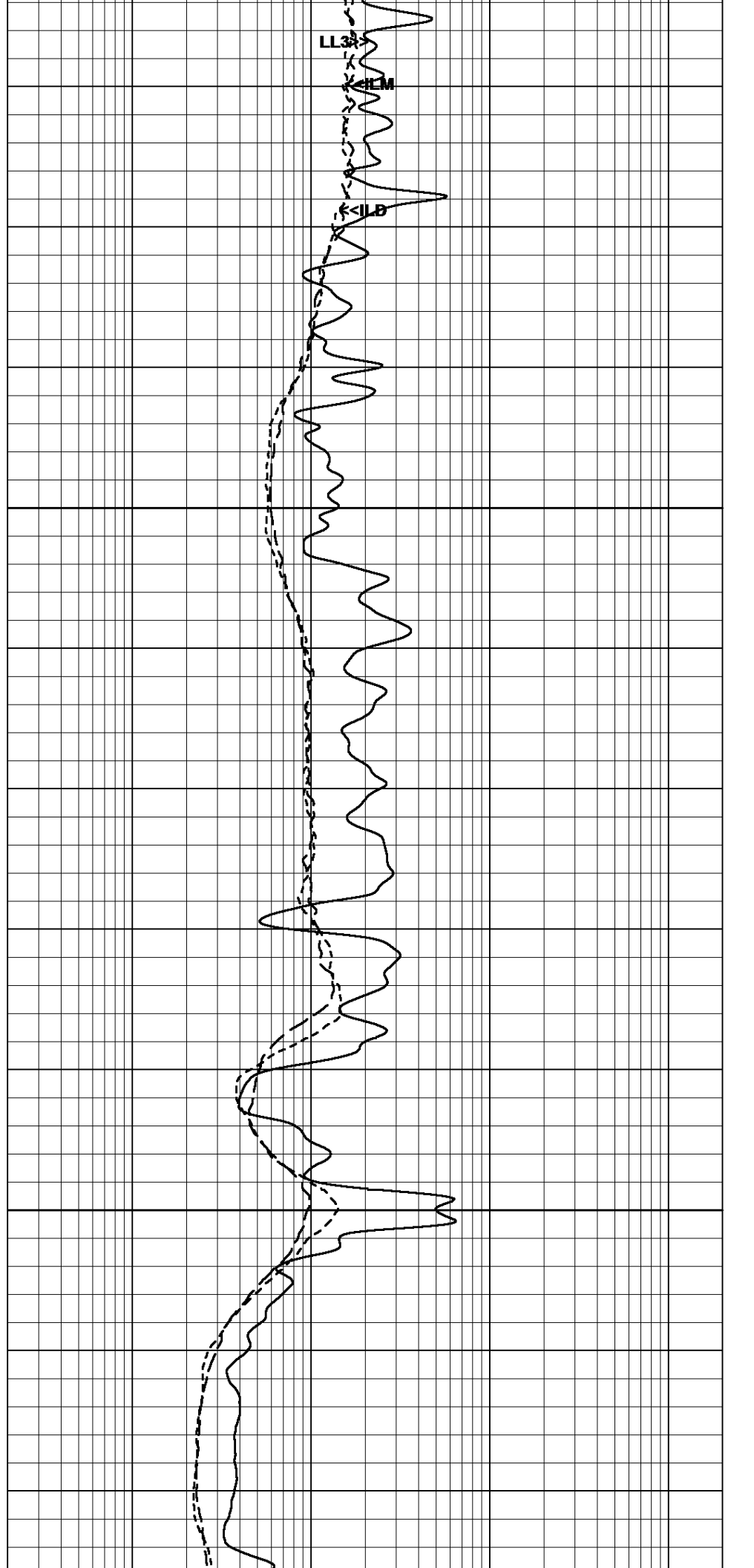
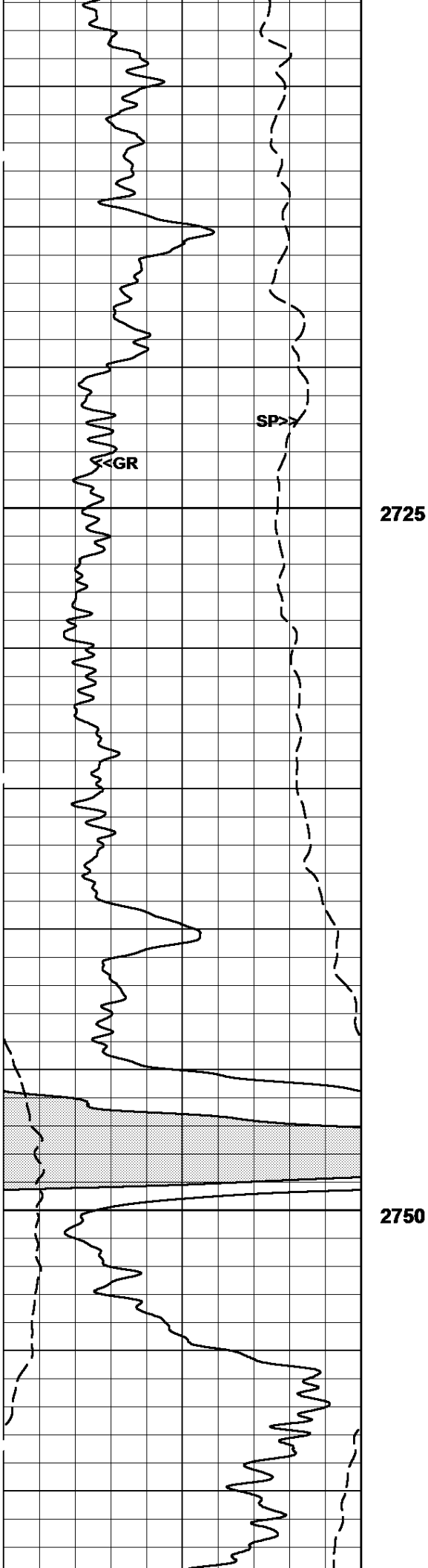


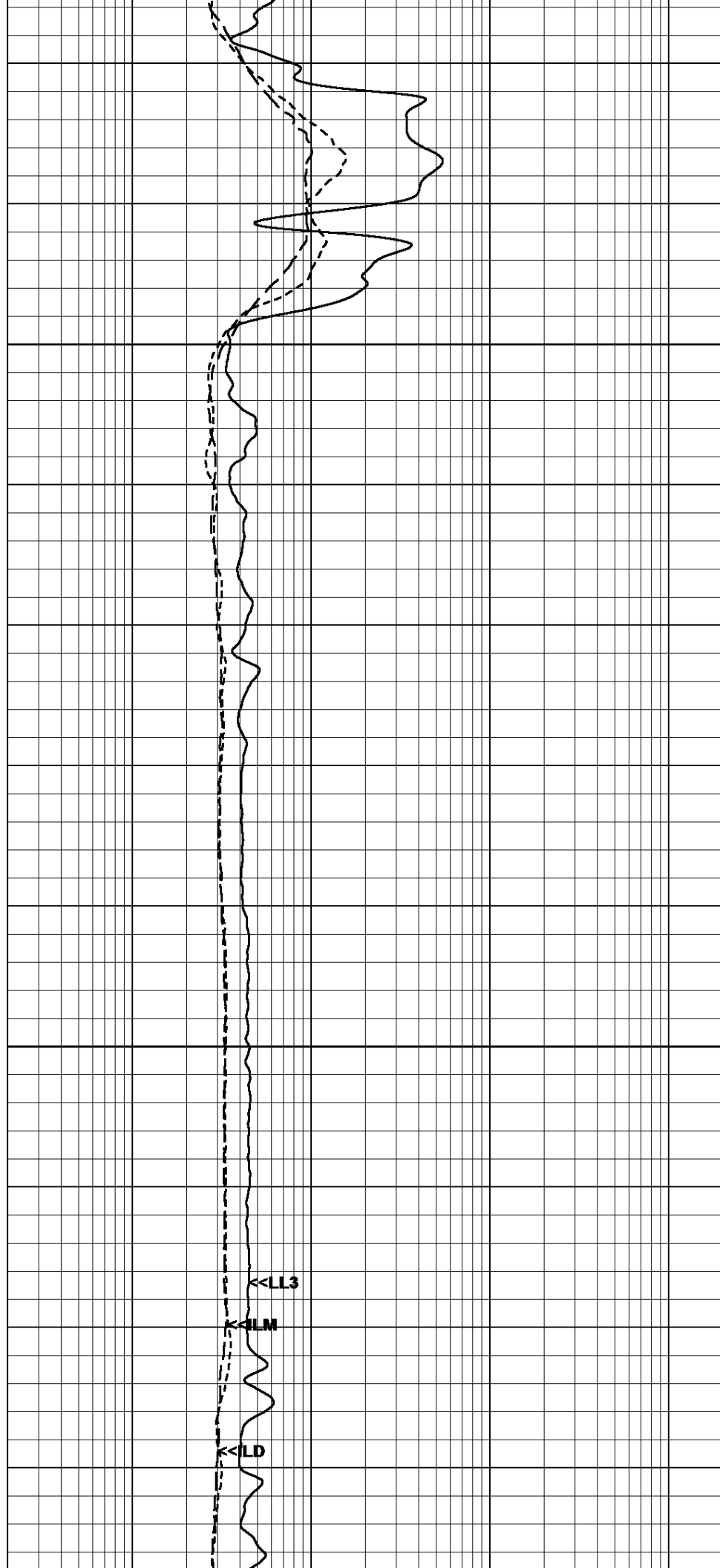
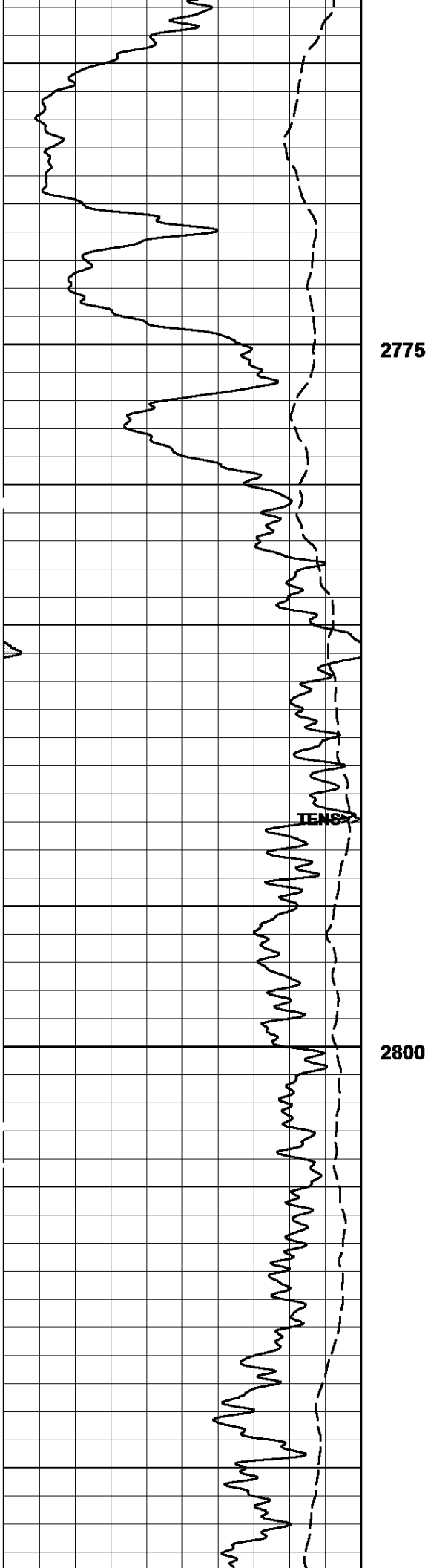


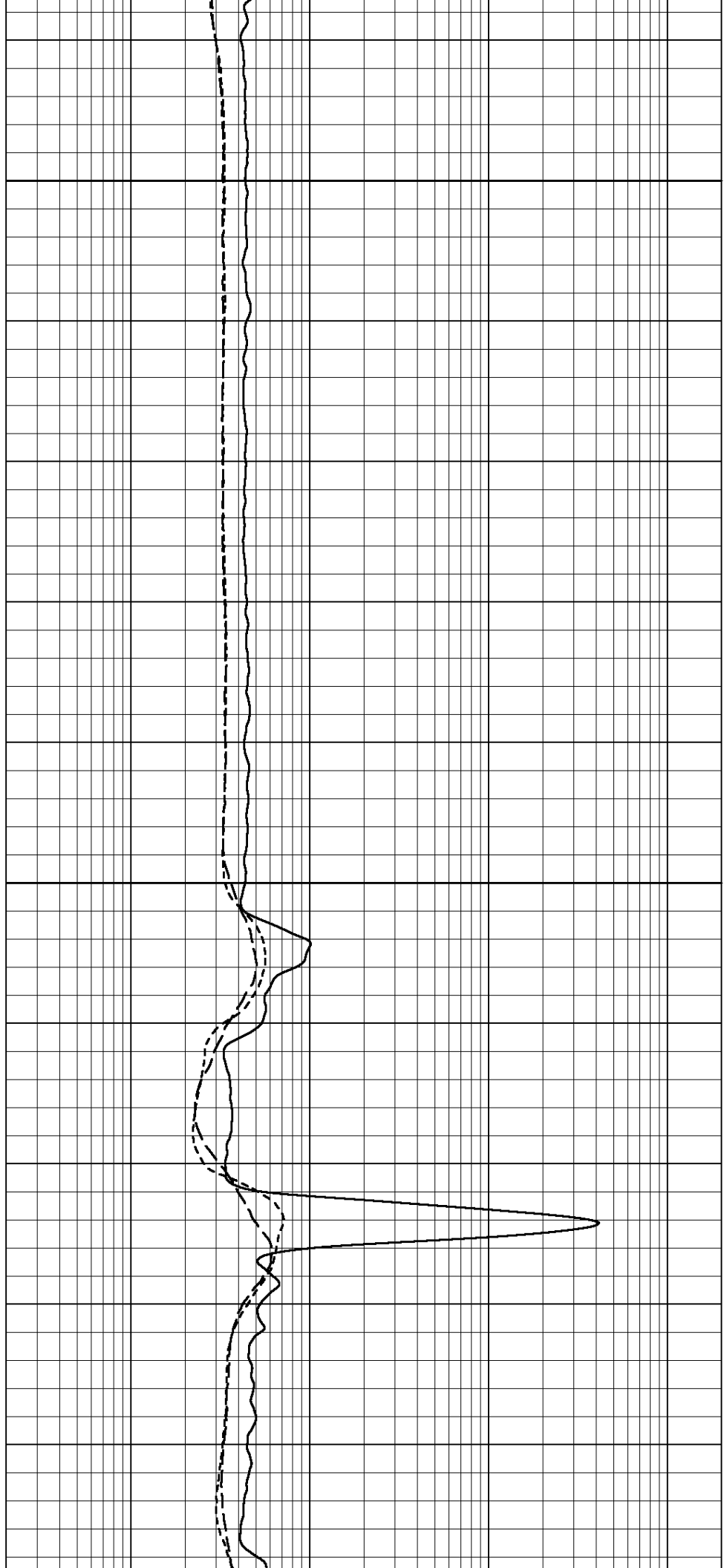
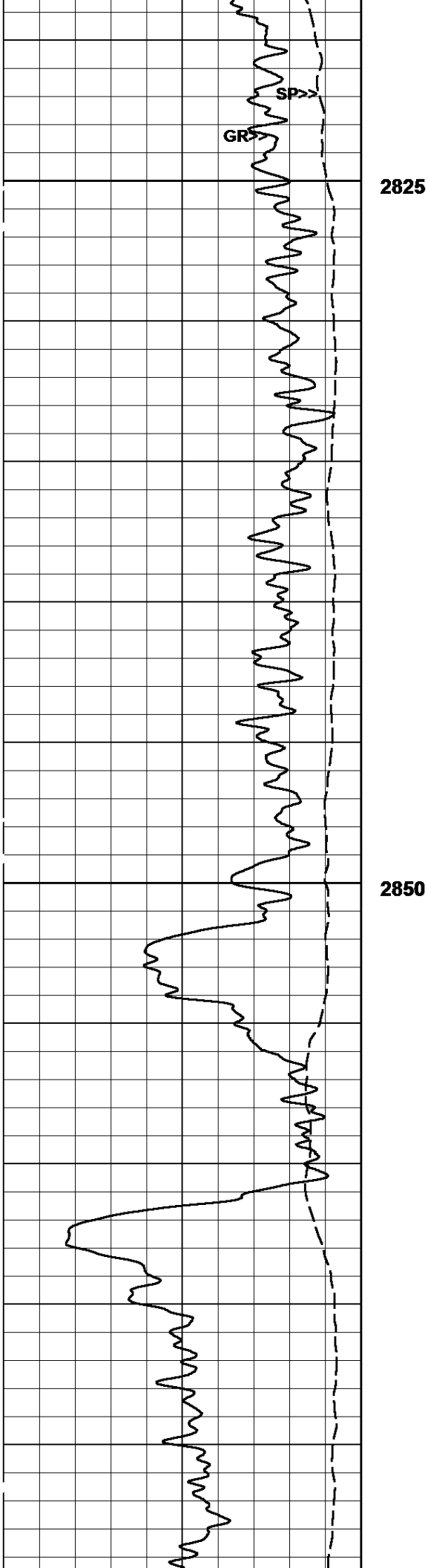
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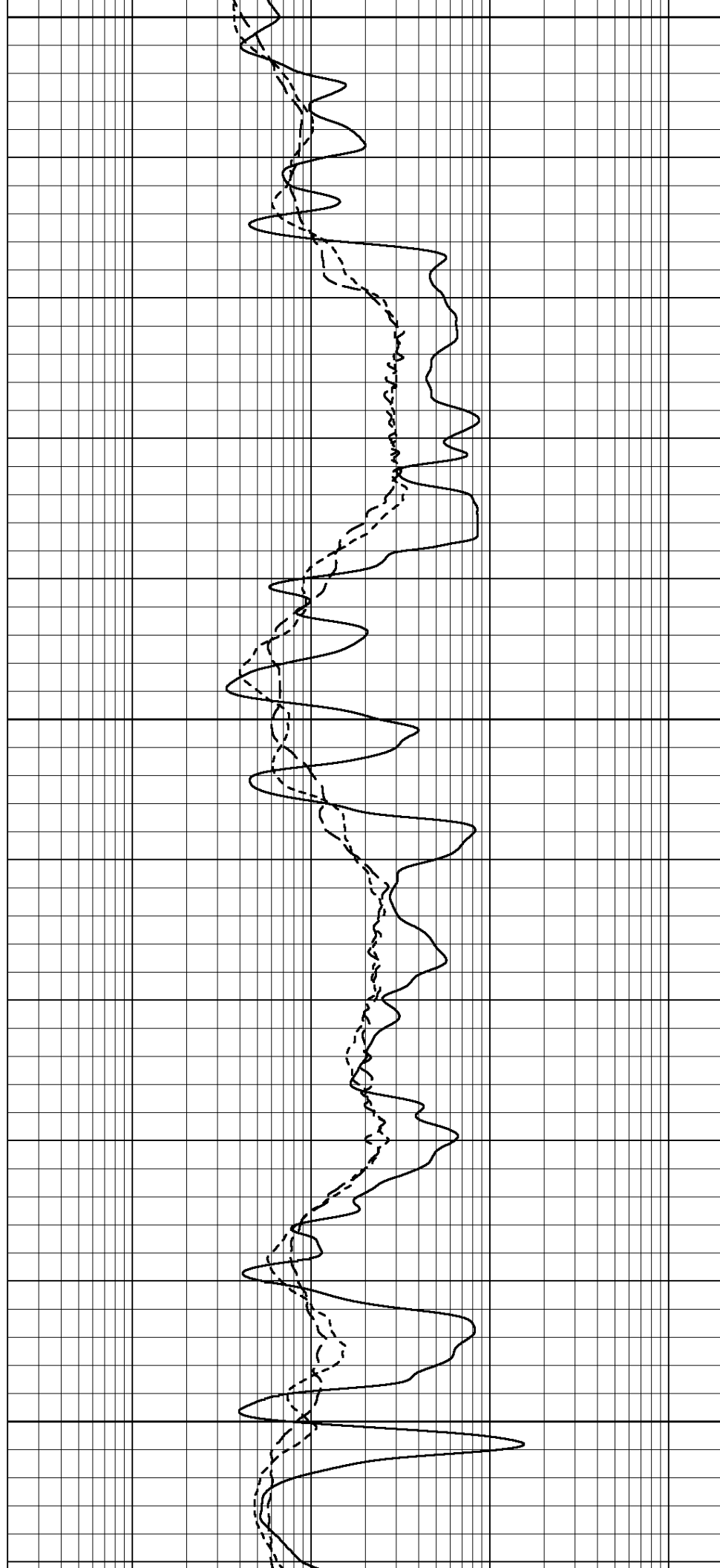
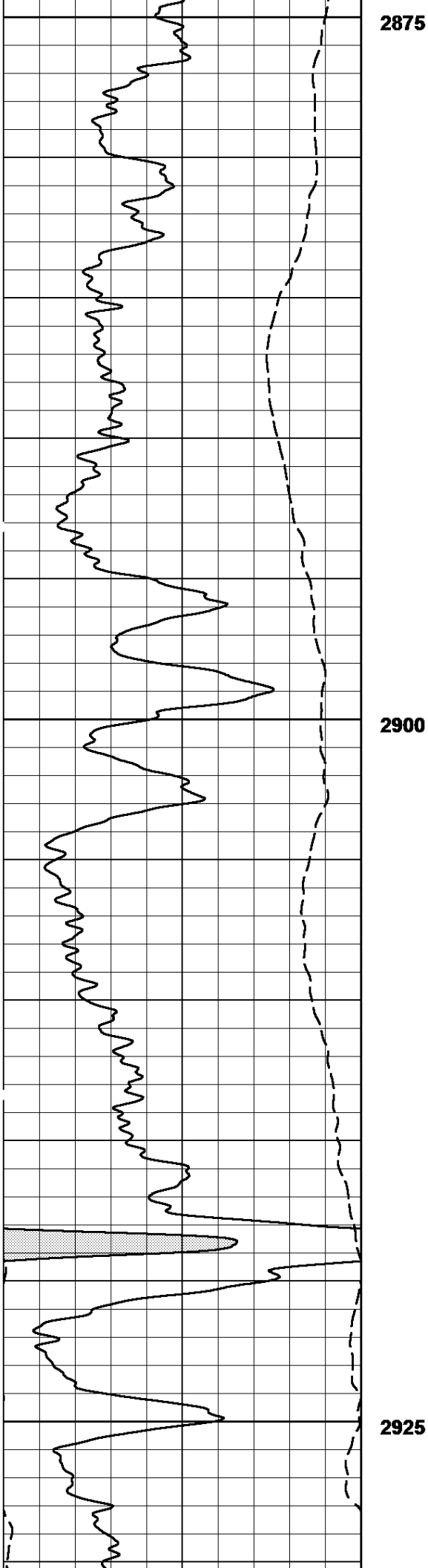
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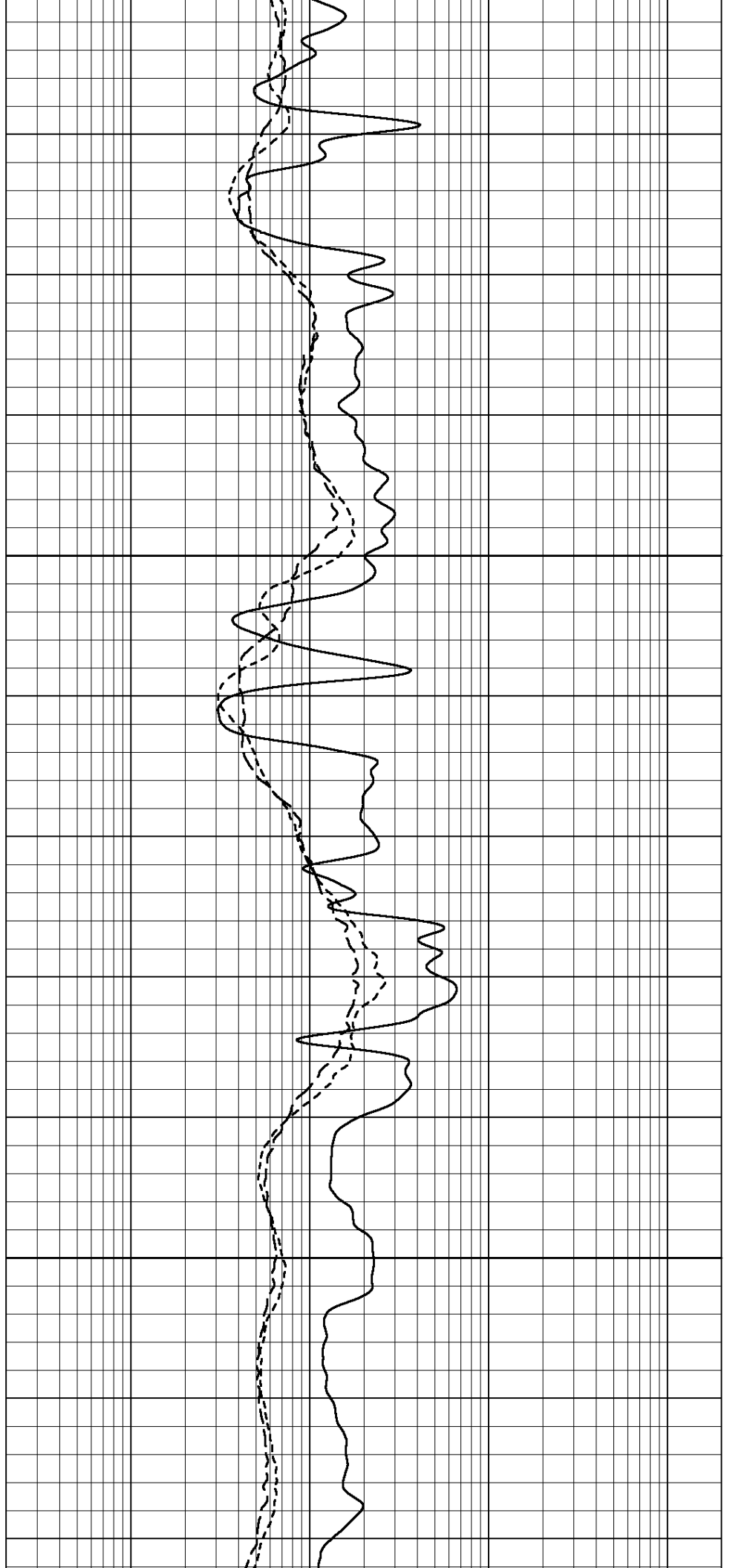
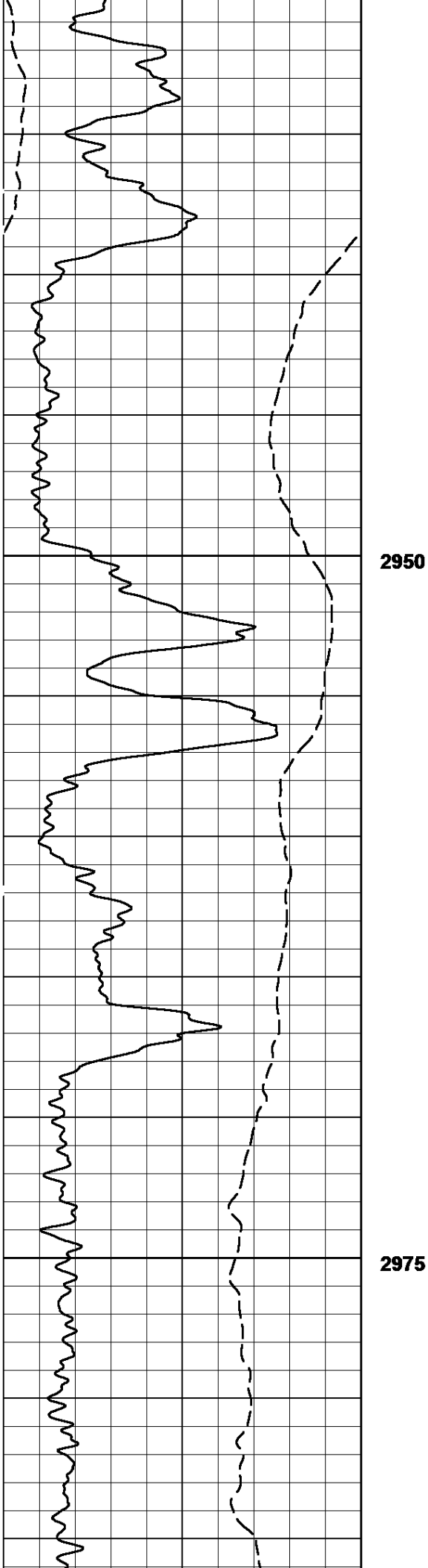


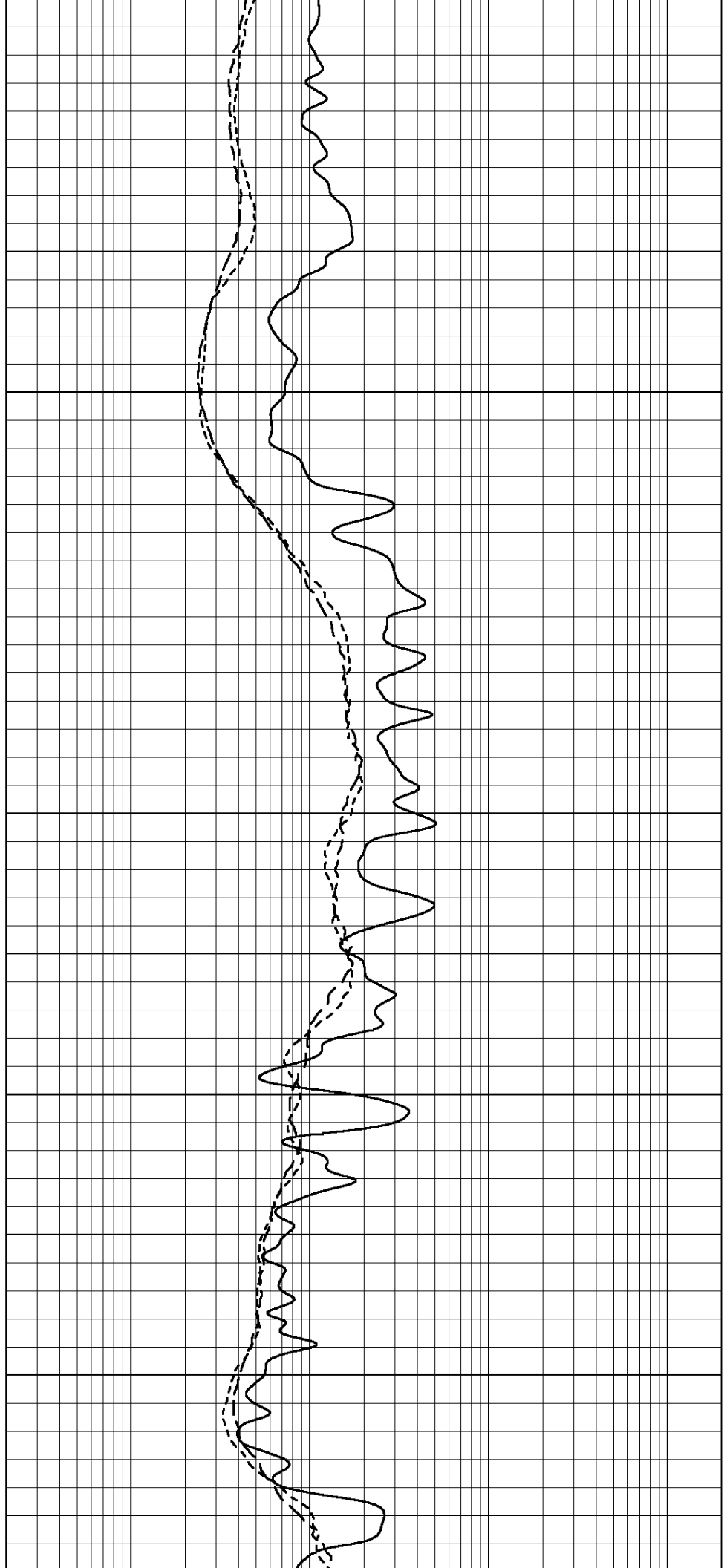
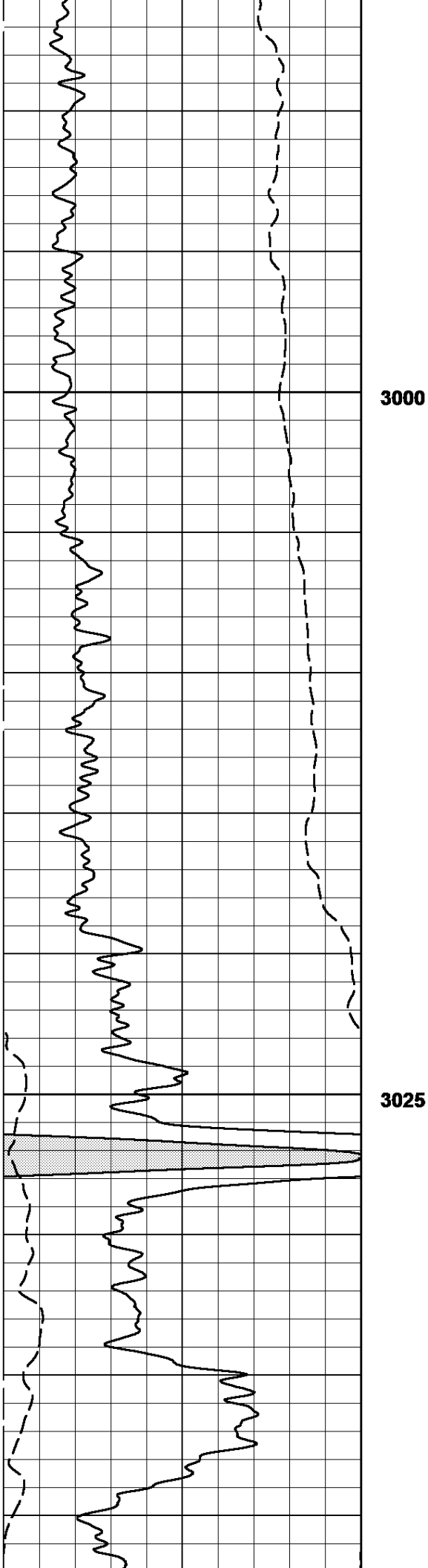


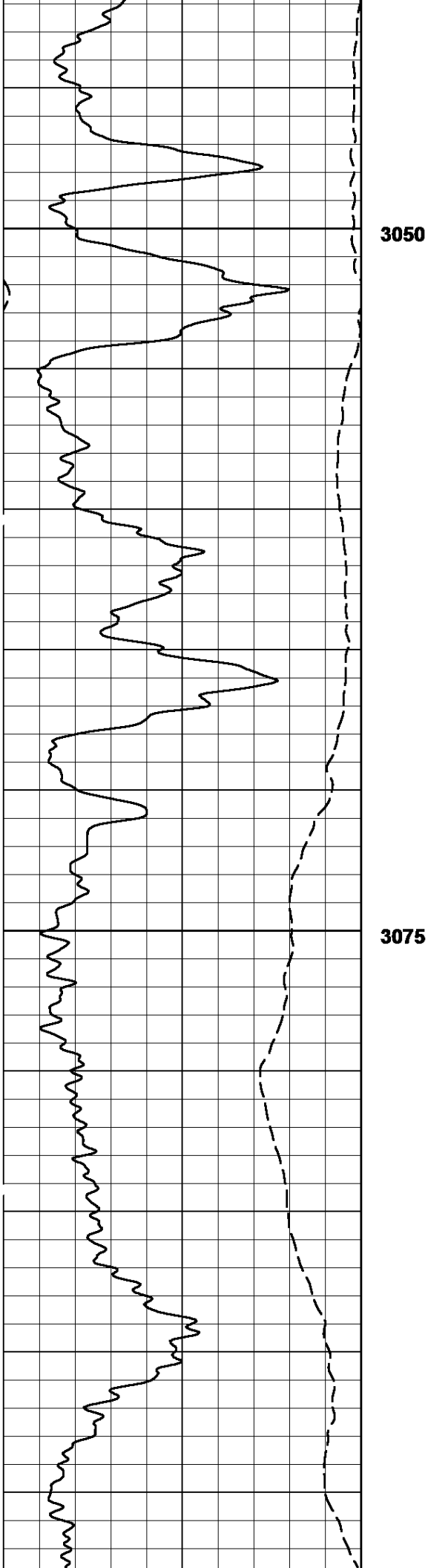




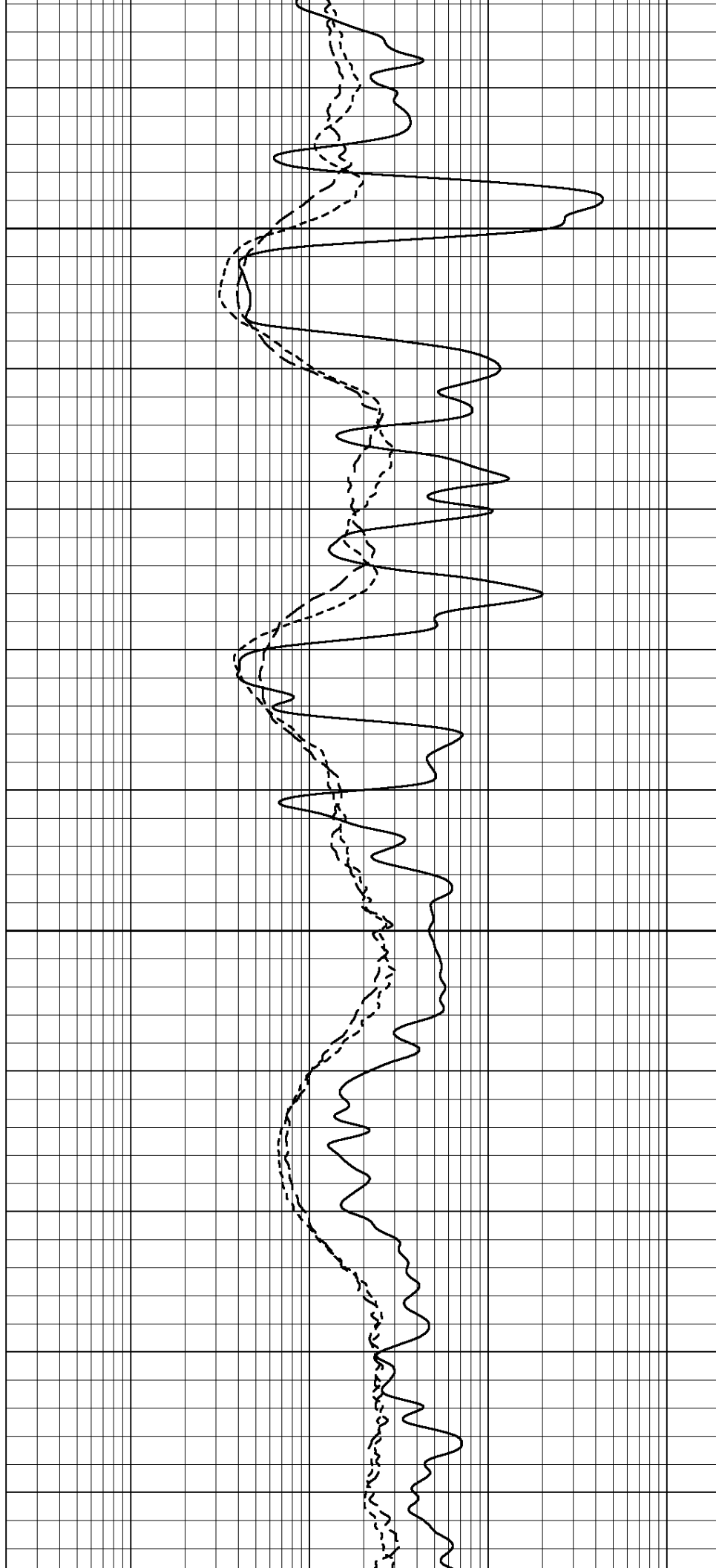


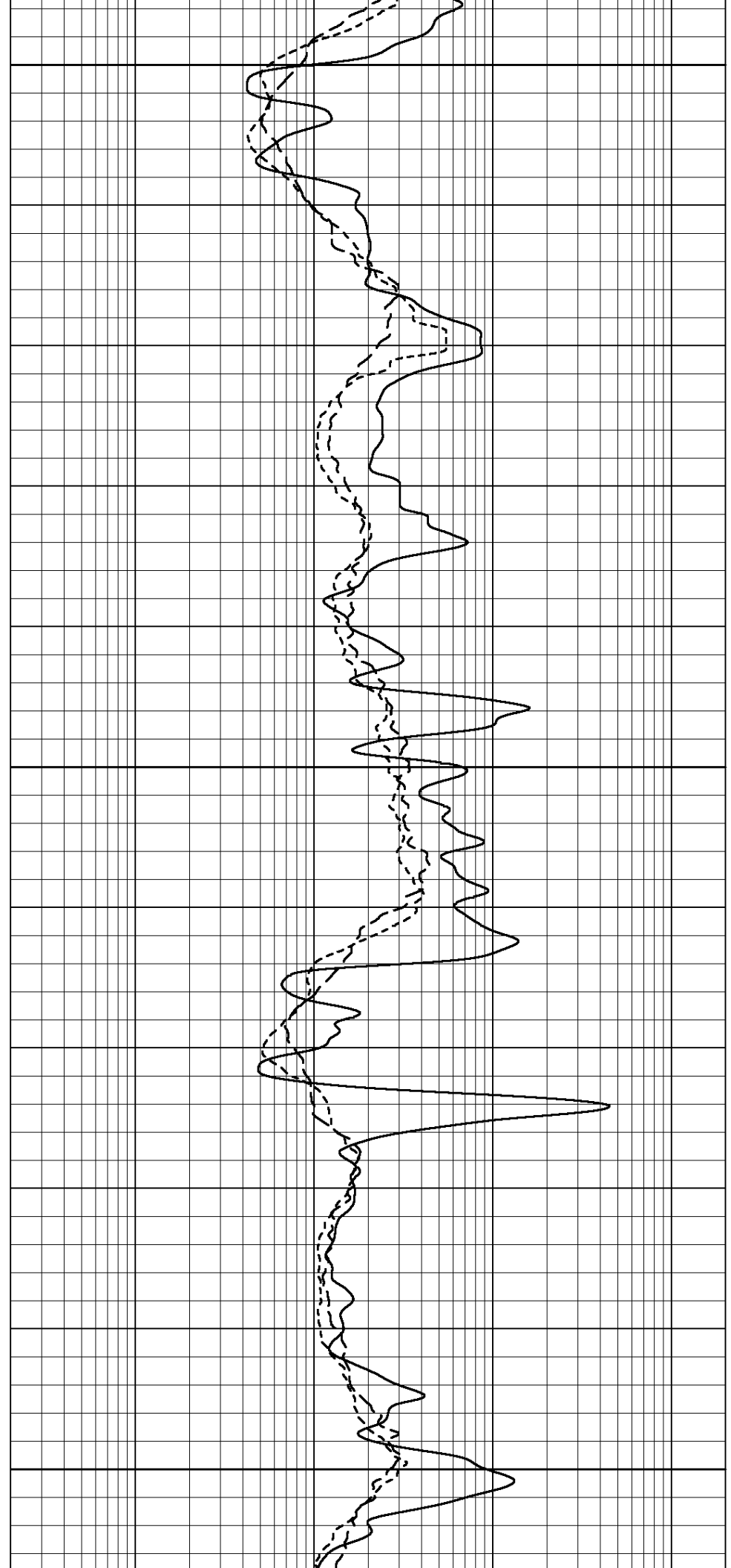
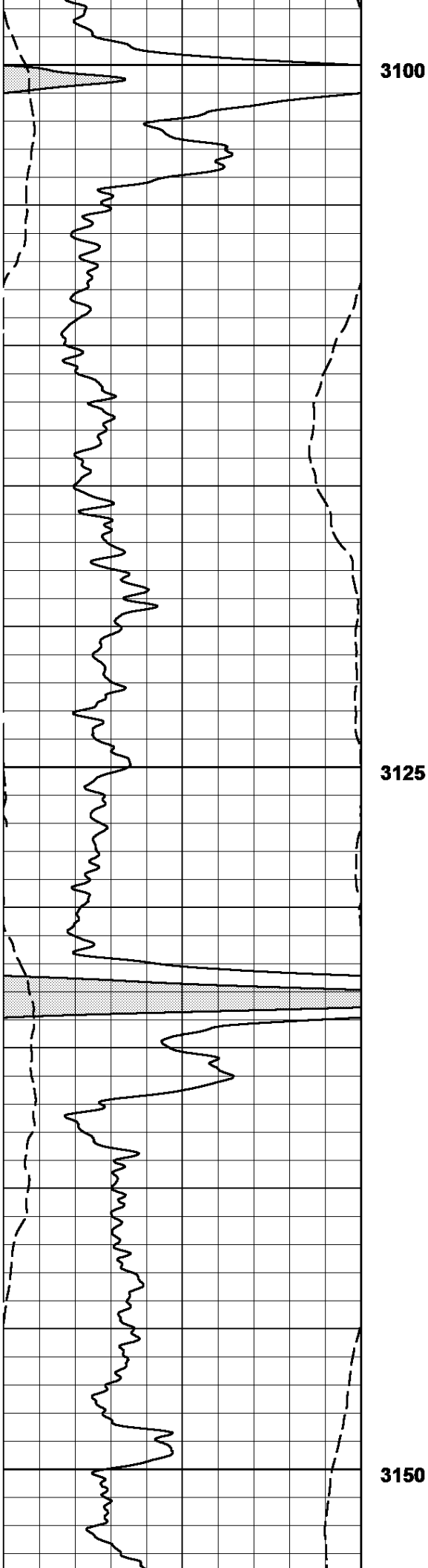


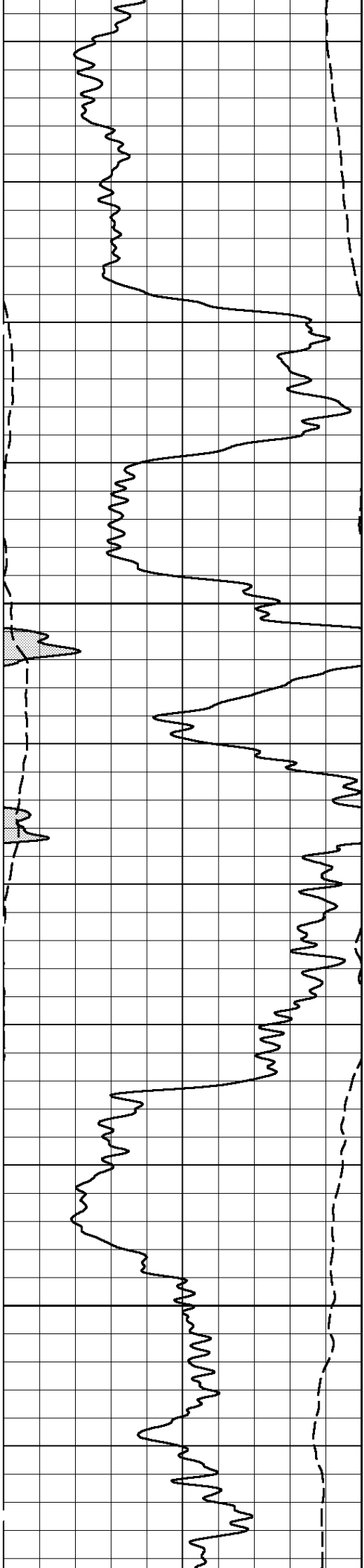




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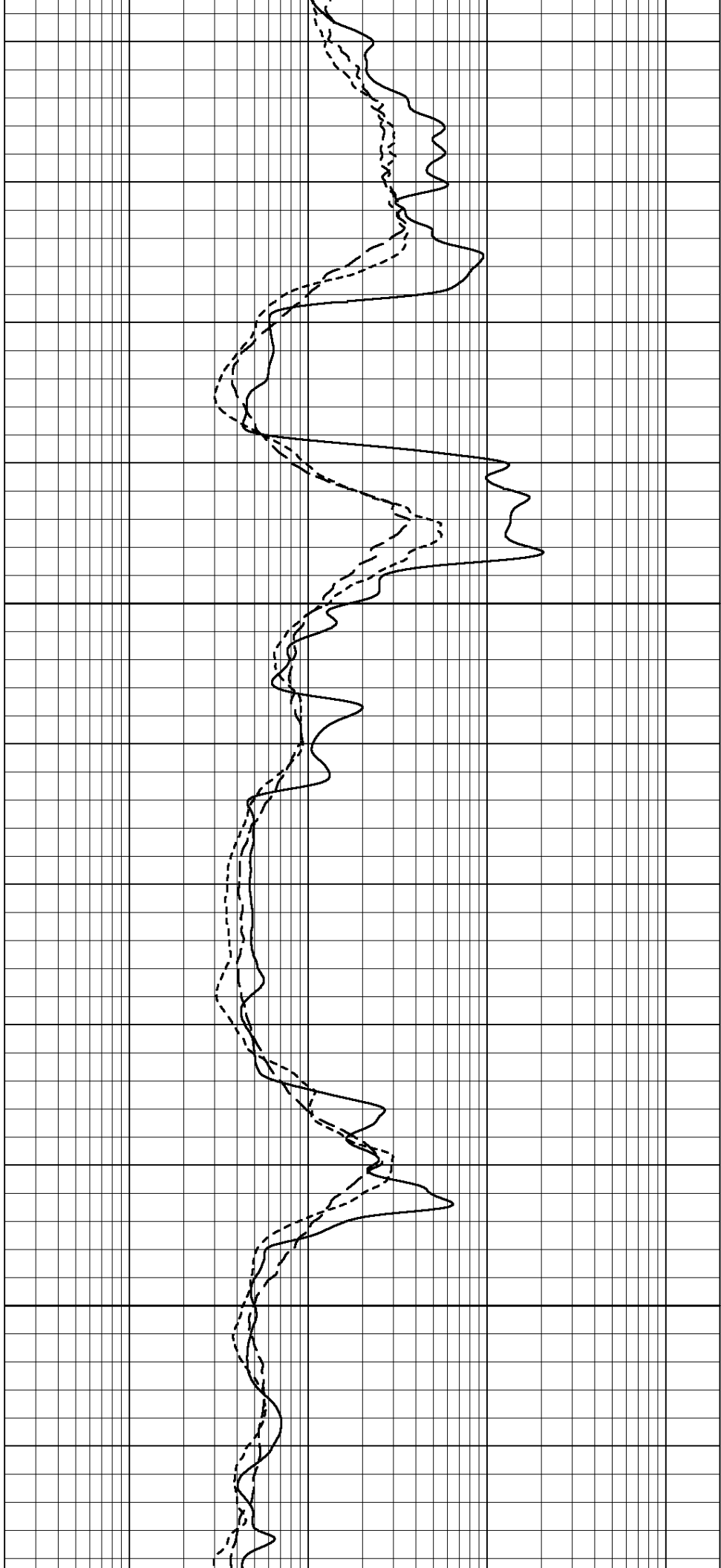


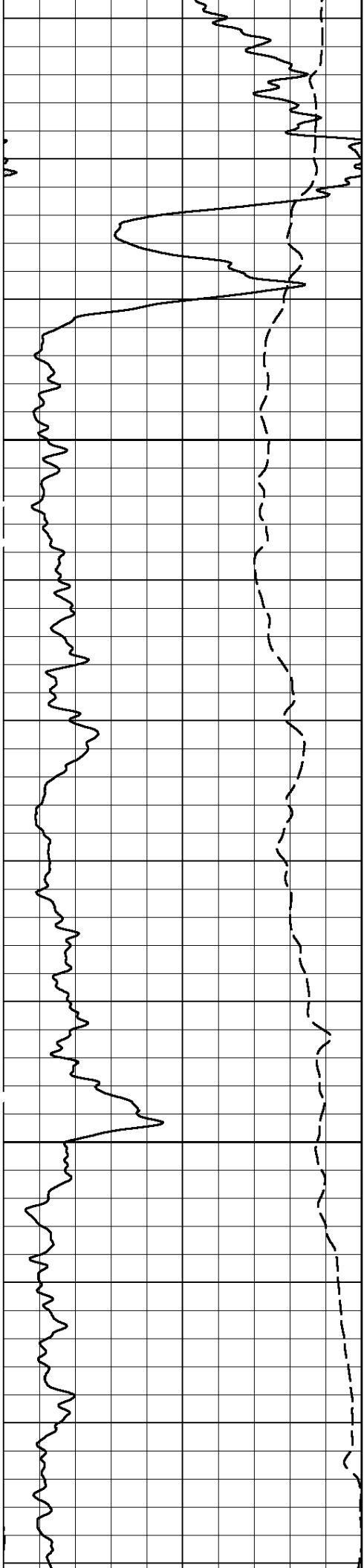




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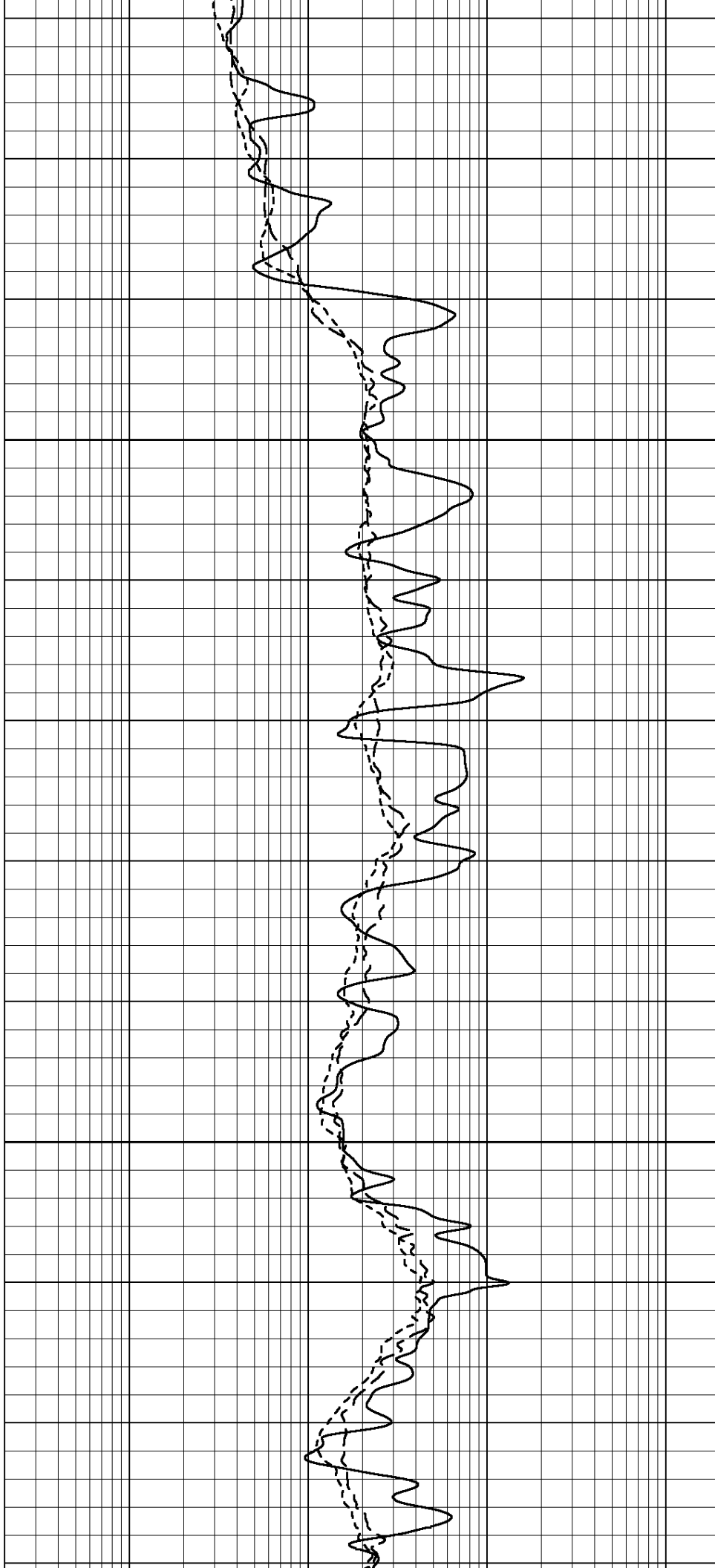
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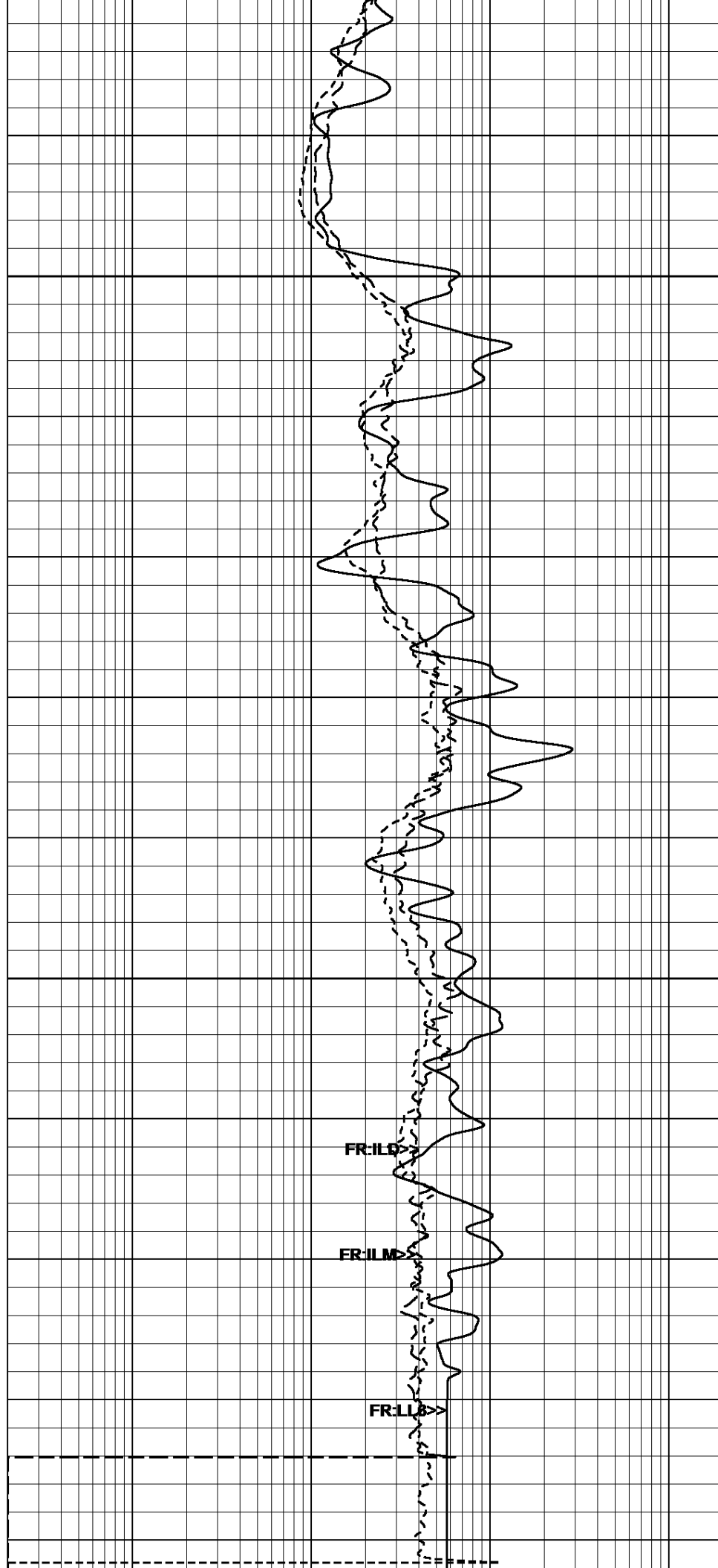
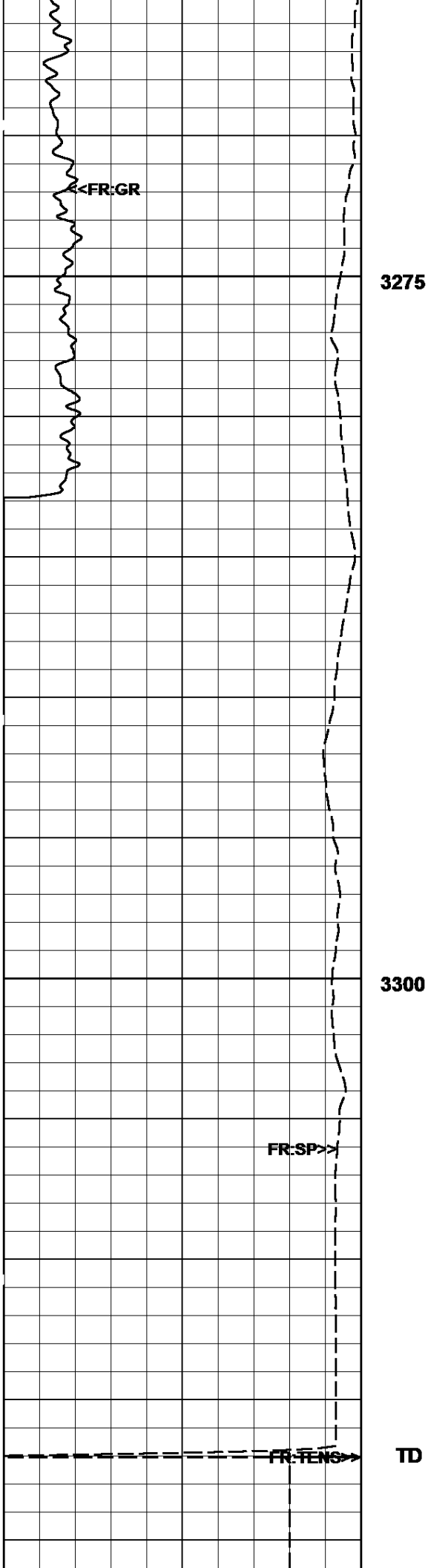




3225

3250





	3325	
Gamma Ray (GR) 0. API 150. Spontaneous Potential (SP) -160. mV 40. Tension (TENS) 5000. Lbs 0.	Deep Induction (ILD) 0.2 ohmm 2000. Med Induction (ILM) 0.2 ohmm 2000. Laterolog (LL3) 0.2 ohmm 2000.	
05/19/2015 HIGH DEFINITION PASS (20"/100Ft) Log UP - (VER 11.19) 22:57:15 => Start Time Start Depth=> 3328.00 Feet		

Induction Resistivity / Conductivity Calibrations								
TOOL TYPE		Slim Hole Induction				LOOP TYPE		
SERIAL NUM		RD1009				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	0.204	629.527	M/D/Y> 3/20/2015	H:M:S> 11:58:16
MED INDUCTION	0.000		462.500	501.895	2.976	708.077	M/D/Y> 3/20/2015	H:M:S> 12:22:12
SHALLOW LATERLOG	CALIBRATOR LOW(ohm)		CALIBRATOR HI(ohm)		LOW(mV)	HI(mV)		
	2.000		500.000		8.925	2460.959	M/D/Y> 3/20/2015	H:M:S> 12:48:2
WELL SITE CALIBRATIONS								

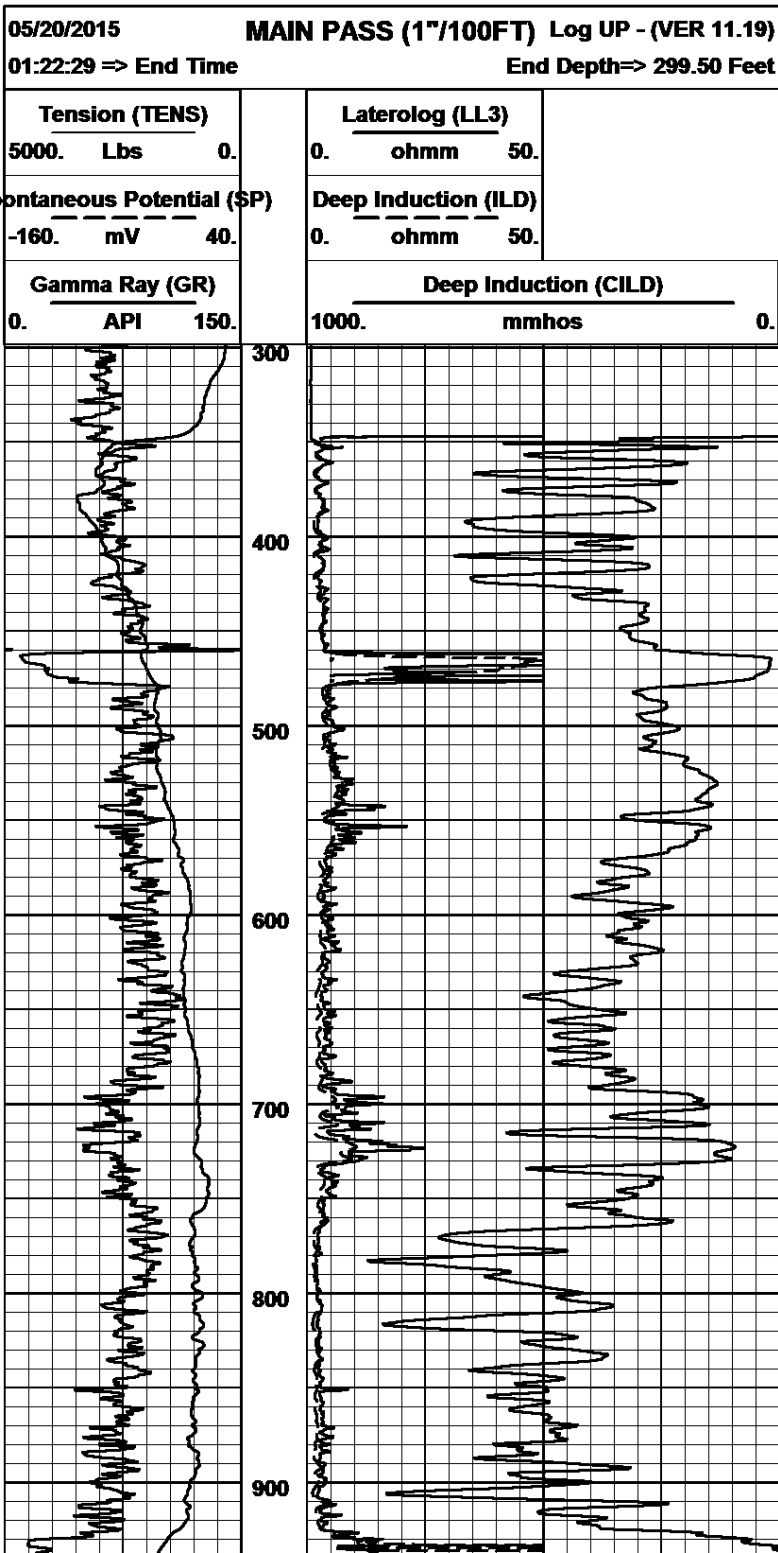
GAMMA RAY CALIBRATION					
SERIAL NUM		RG3007			
BLANKET NUM		1A			
MASTER CALIBRATIONS					
	BackGrnd	CalVal: 175.000 API	Gain/Offset	CALIBRATION DATE	CALIBRATION TIME
BASE CALS	35.381 - raw	215.417 - raw	0.972 - gain 0.000 - off	M/D/Y> 4/7/2015	H:M:S> 11:44:55

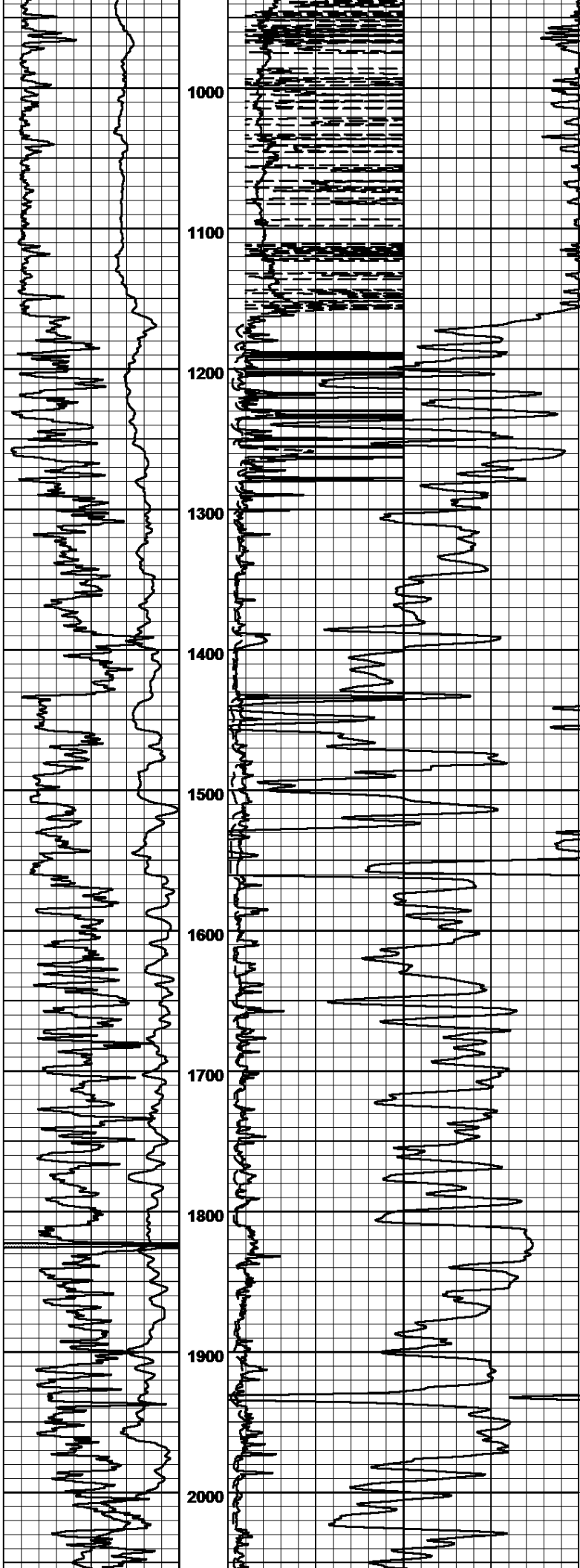
Company	CMX INCORPORATED
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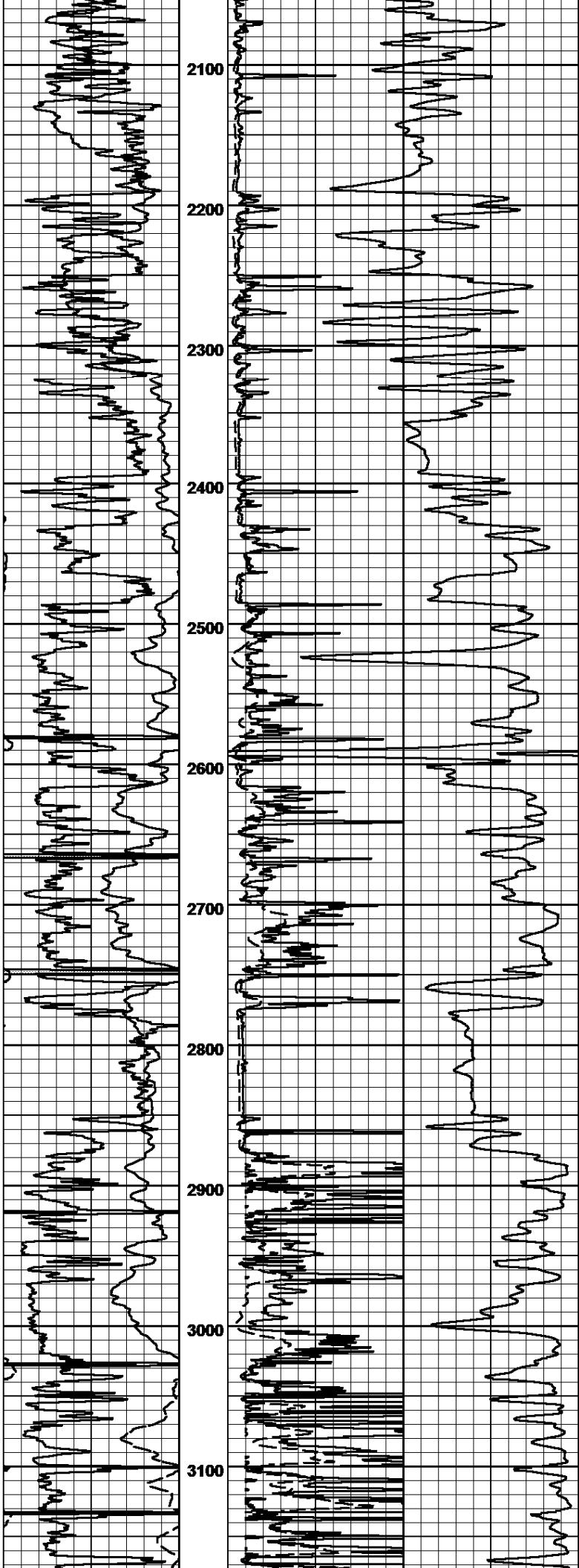
Well	BUSHTON #1-20
Field	STOLTENBERG
County	ELLSWORTH
State	KANSAS

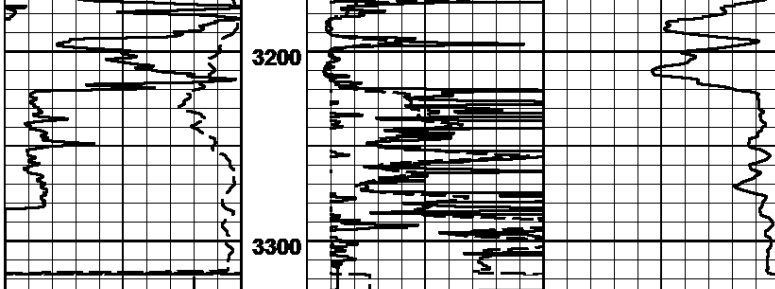


DUAL INDUCTION
 LATEROLOG - SP
 GAMMA RAY









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)		
5000.	Lbs	0.	0.	ohmm	50.

05/19/2015 **MAIN PASS (1"/100FT) Log UP - (VER 11.19)**
23:39:27 => Start Time Start Depth=> 3328.00 Feet