

Company VAUGHN GOOD OIL COMPANY
Well NUSSER #3-16
Field S.E. HARDTNER
County BARBER
State KANSAS

RECON

DUAL INDUCTION
LATEROLOG - SP
GAMMA RAY

SEC	TWP	RGE	OTHER SERVICES:	
16	35N	12W	LDT	CNL
Location. 990' FSL & 2100' FWL		SW	XY CALIPER	MEL
SURF. SAME	AP#:	015-007-24016	ELEVATIONS	
Permanent Datum	Ground Level	Elev	K.B.	1402
Log Measured From	Kelly Bushing		G.L.	1389
Drilling Measured From	Kelly Bushing		D.F.	1400

Date	07-MAY-2013				
Run No.	ONE				
TD Driller	5600	ft			ft
TD RECON	5592	ft			ft
Bot Logged Interval	5591	ft			ft
Top Logged Interval	351	ft			ft
Casing Depth Driller	8 5/8	in.	@	357	@
Casing Depth RECON	8 5/8	in.	@	351	@
Bit Size	7 7/8	in.			in.
Drilling Fluid Type	CHEMICAL				
Density	9.4	ppg	65	sec/qt	
Fluid Loss	PH	10.6 ml/30min	10.5	strip	
Source Of Sample	Flowline				
RM @ Measured Temp	1.49	Ohmm	@	75	Ohmm @
RMF @ Measured Temp	1.12	Ohmm	@	75	Ohmm @
RMC @ Measured Temp	1.86	Ohmm	@	75	Ohmm @
RM @ MRT	0.86	Ohmm	@	135	Ohmm @
Max Recorded Temp	135	DegF			DegF
Time Drilling Stopped	06-MAY-2013	22:30			
Time Circulation Stopped	07-MAY-2013	03:00			
Time Logger On Bottom	07-MAY-2013	08:08			
Unit Num	S407	Location	OKLAHOMA CITY, OK.		
Recorded By	H. GARCIA				
Witnessed By	MR. V. GOOD				

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# MENDENHALL DRLG. #3

GENERAL REMARKS SECTION

FIRST RUN IN THE HOLE
CNL AND LDT LOGGED IN A LIMESTONE MATRIX
TOP MARK - 342, BOTTOM MARK - 5545.9
CNL/LDT LOGGED MATRIX: 2.71 g/cc.

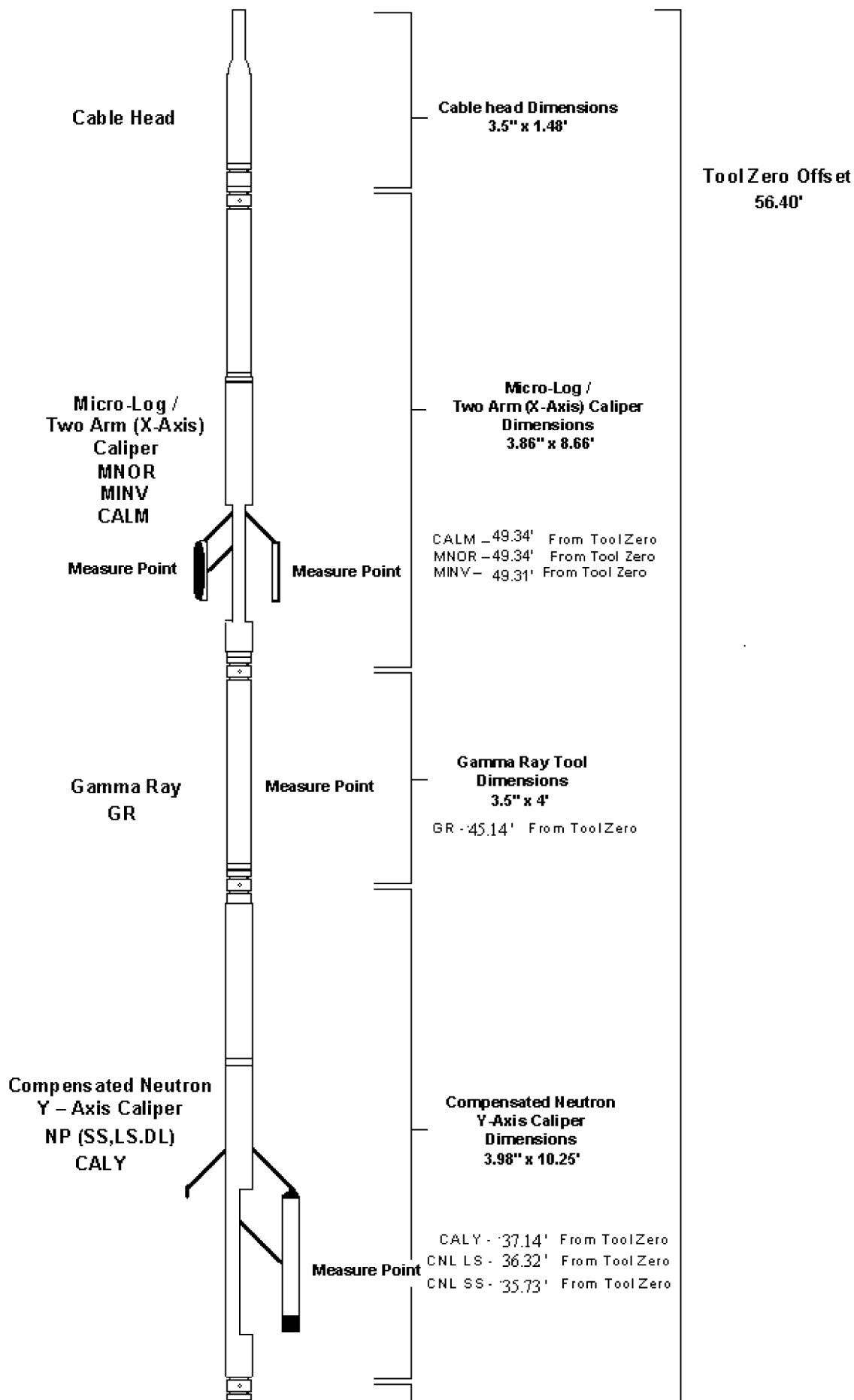
CHLORIDES: 7000 ppm
LCM: 8 lb/bbl

AHV CALCULATED ON 5.5" PROD. CASING

THANK YOU FOR USING RECON PETROTECHNOLOGIES LTD.

CREW: J. ROSE, C. PENNARTZ

**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

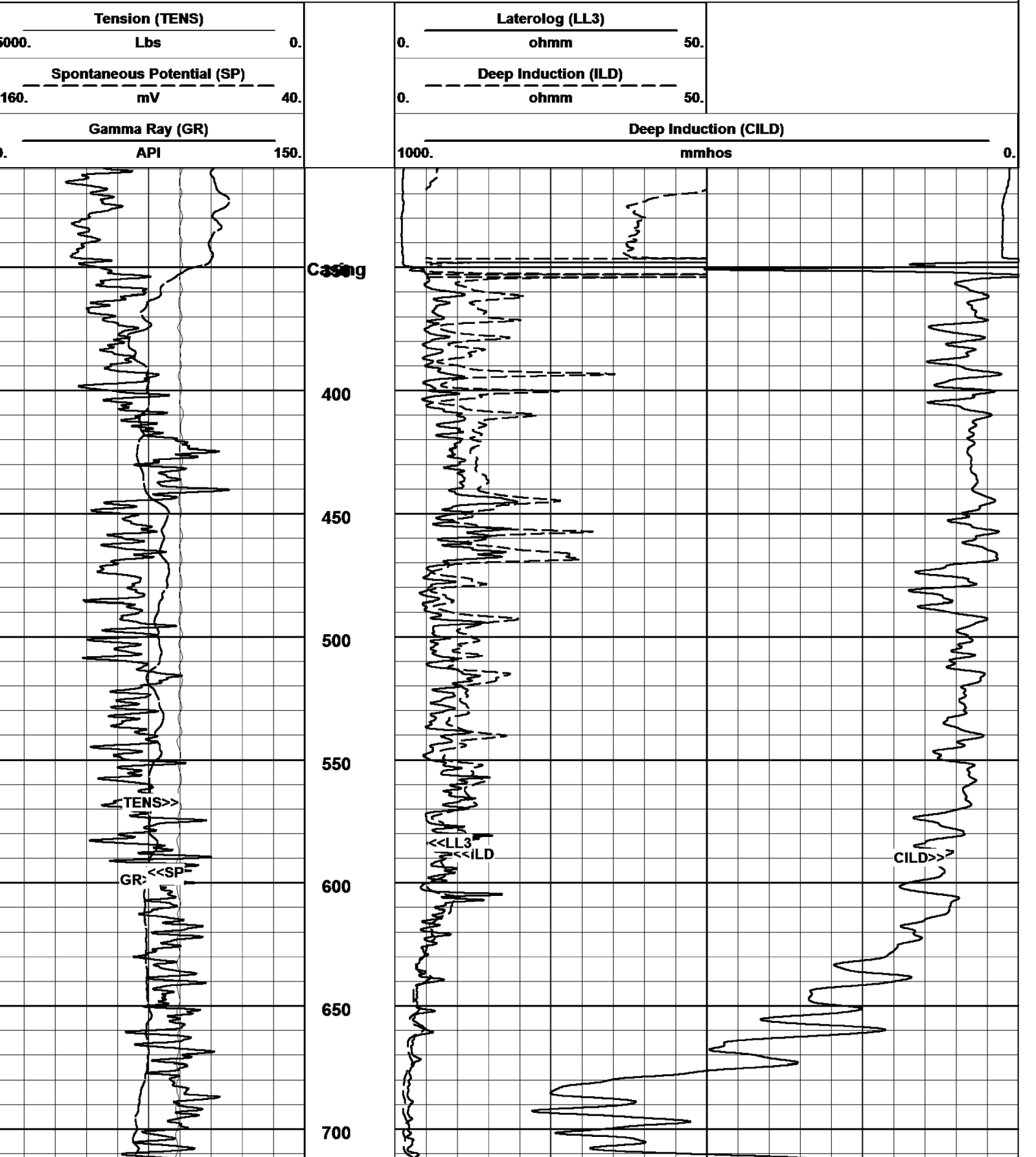
**Tool First Reading
Point**

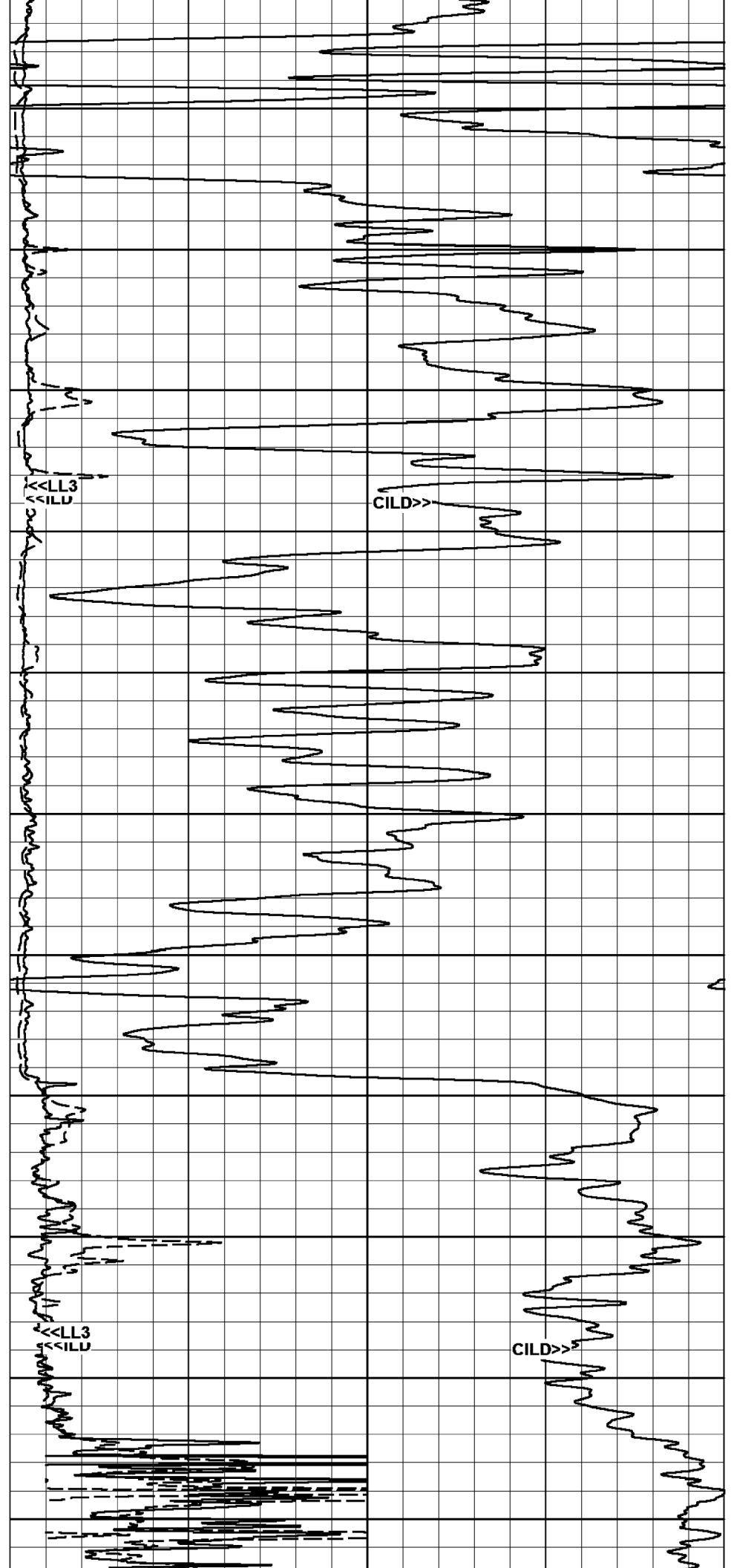
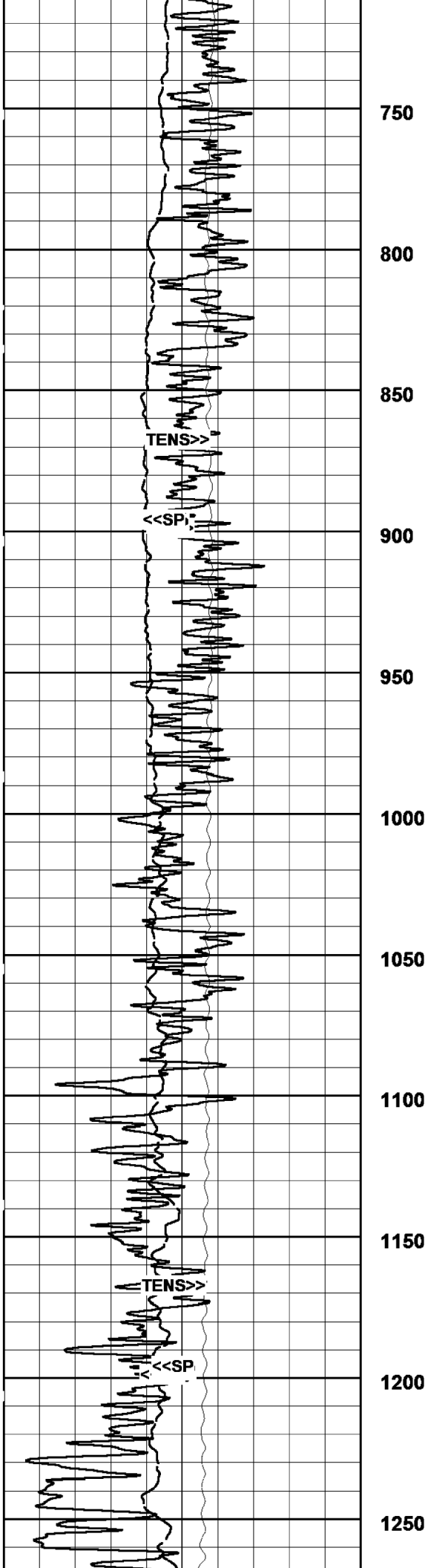
**Laterolog 3
Measure Point**

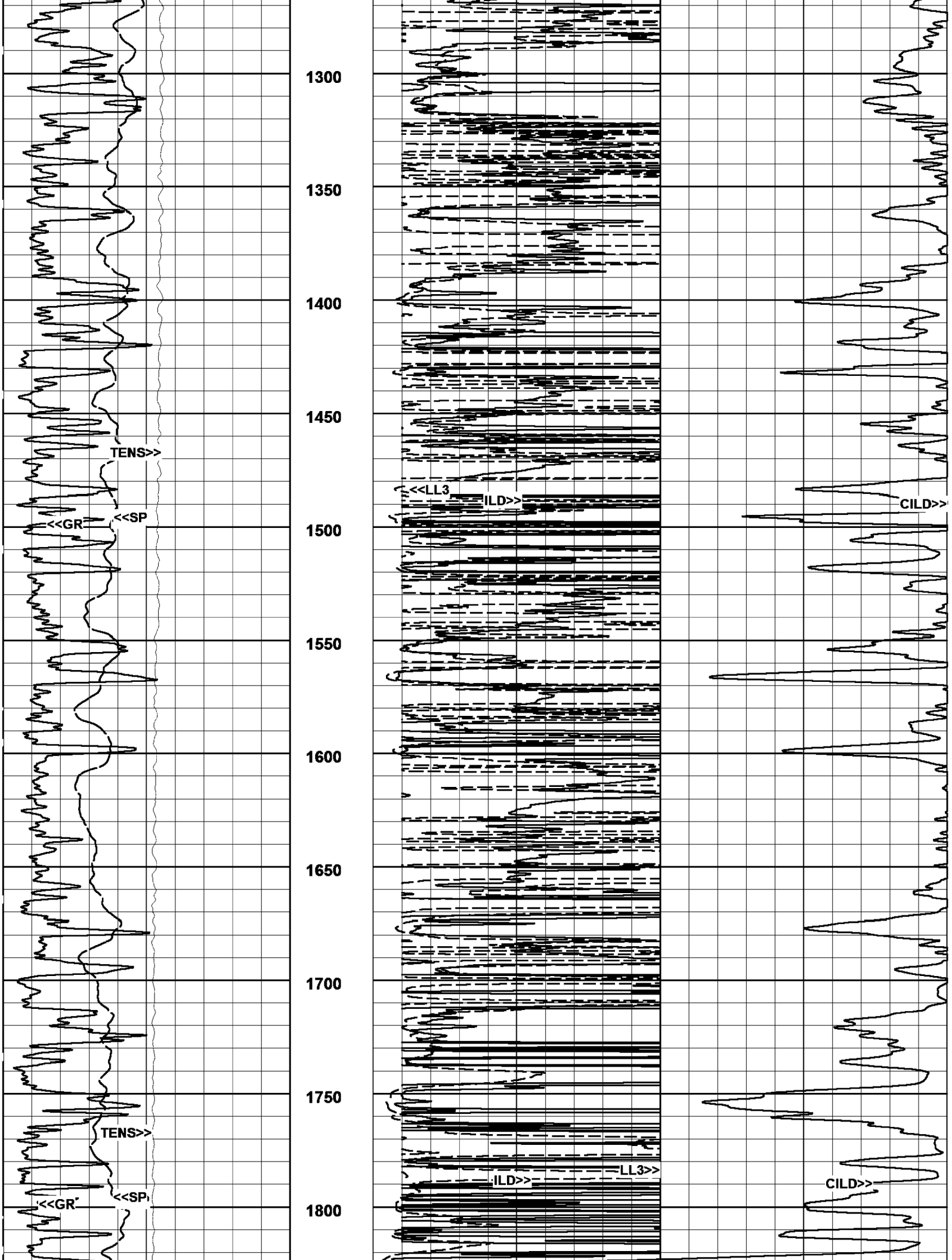
LL3 - 1.67' From ToolZero

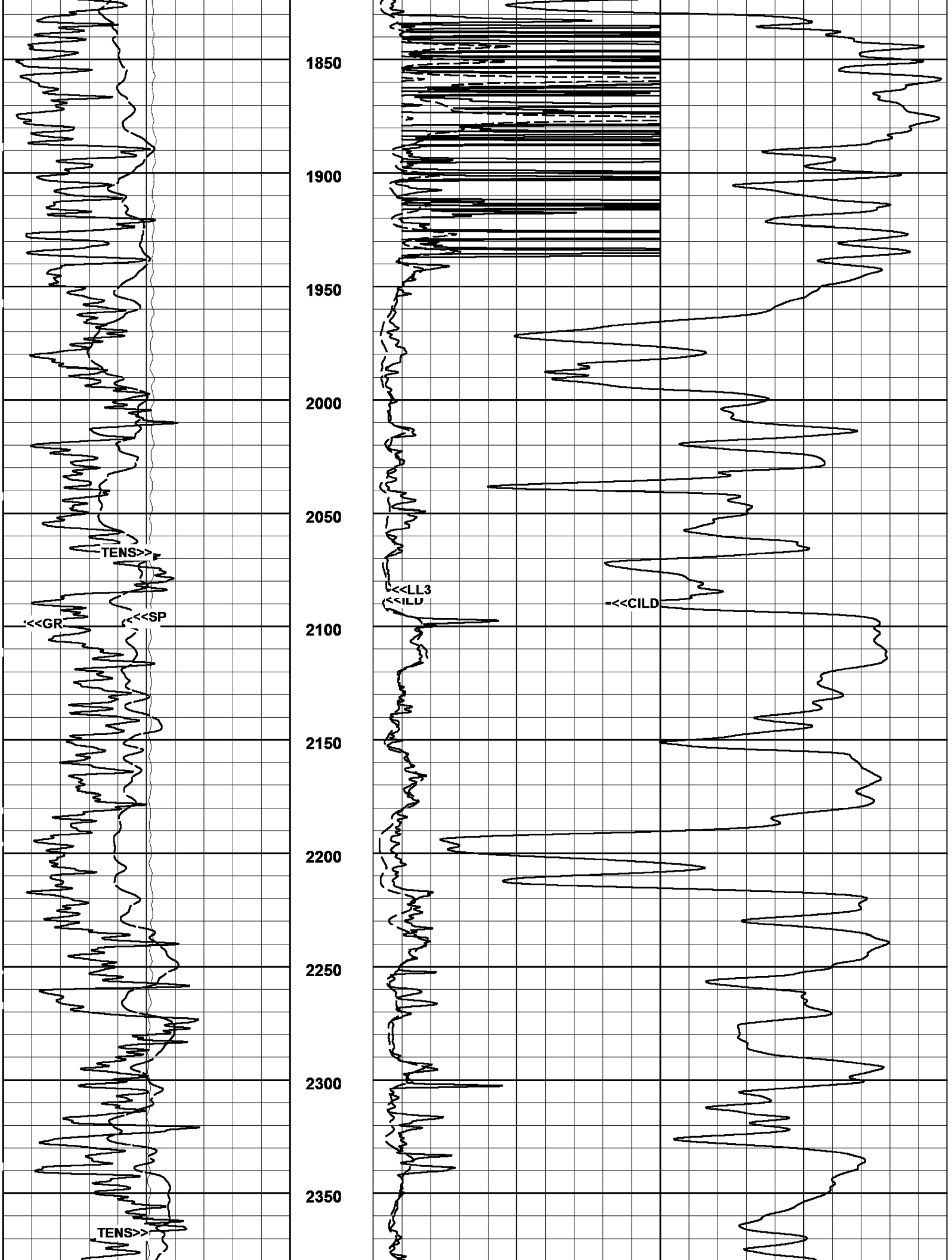
**Tool Zero Point
(Tool Bottom)**

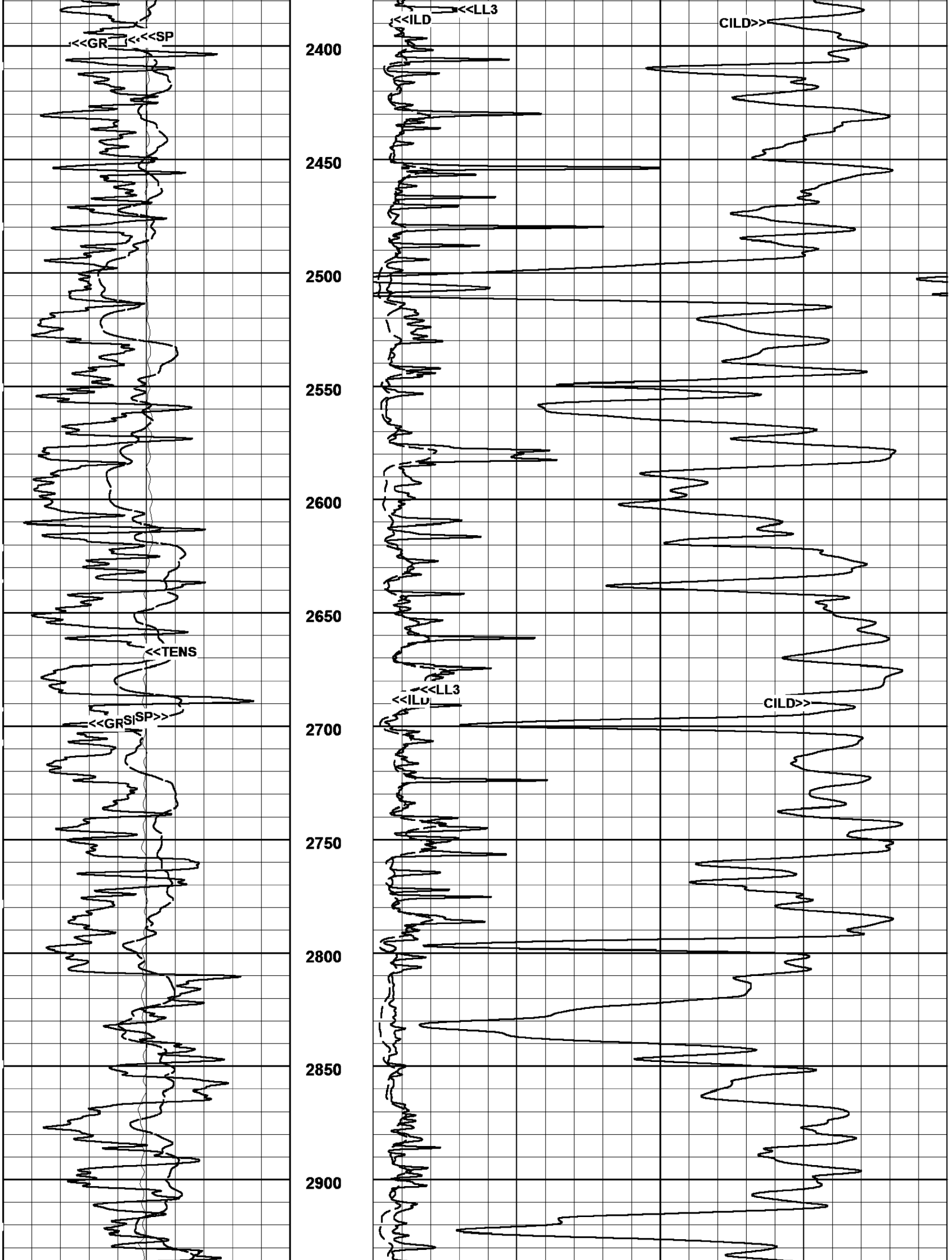
**All Measurements are
taken from Tool Zero**

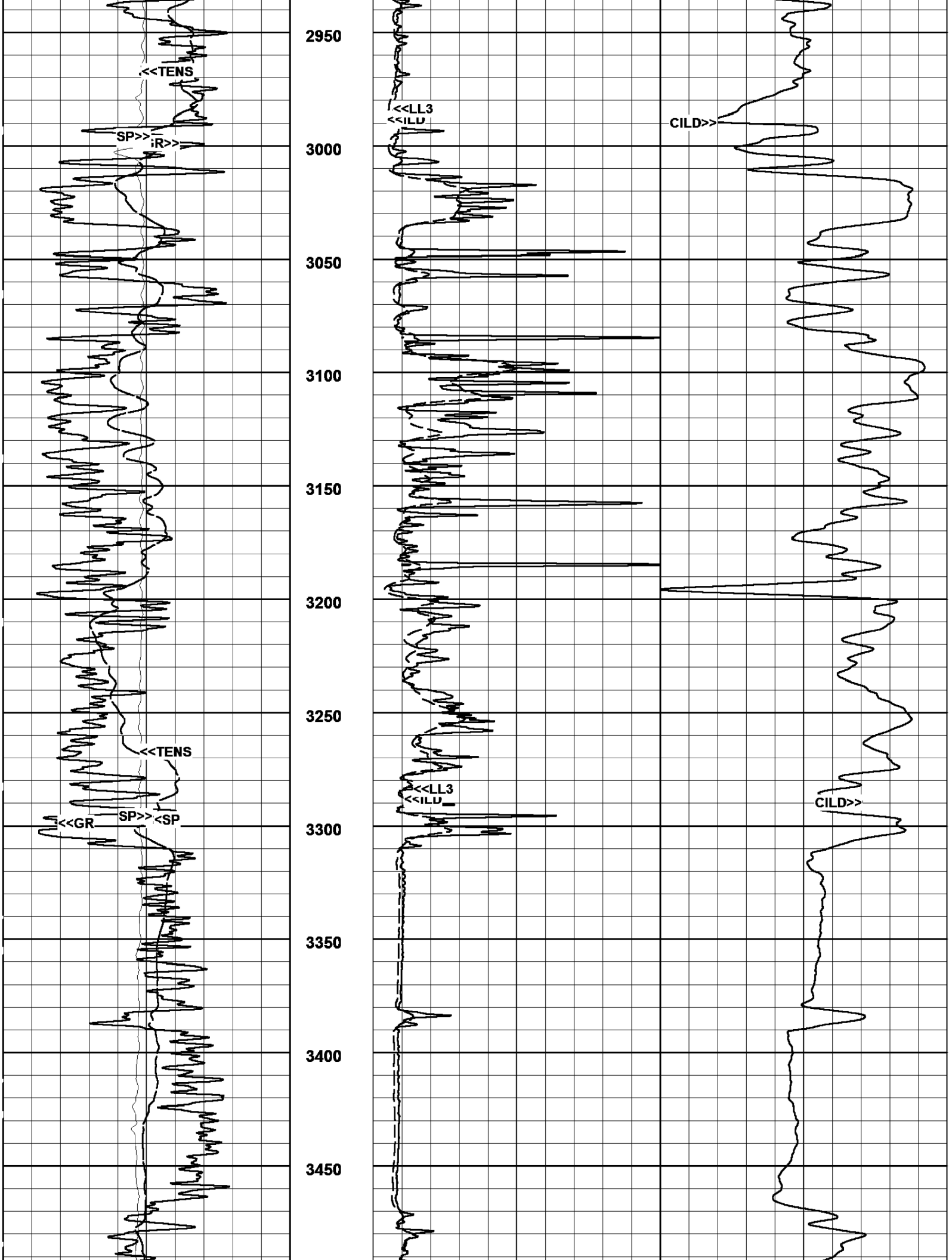


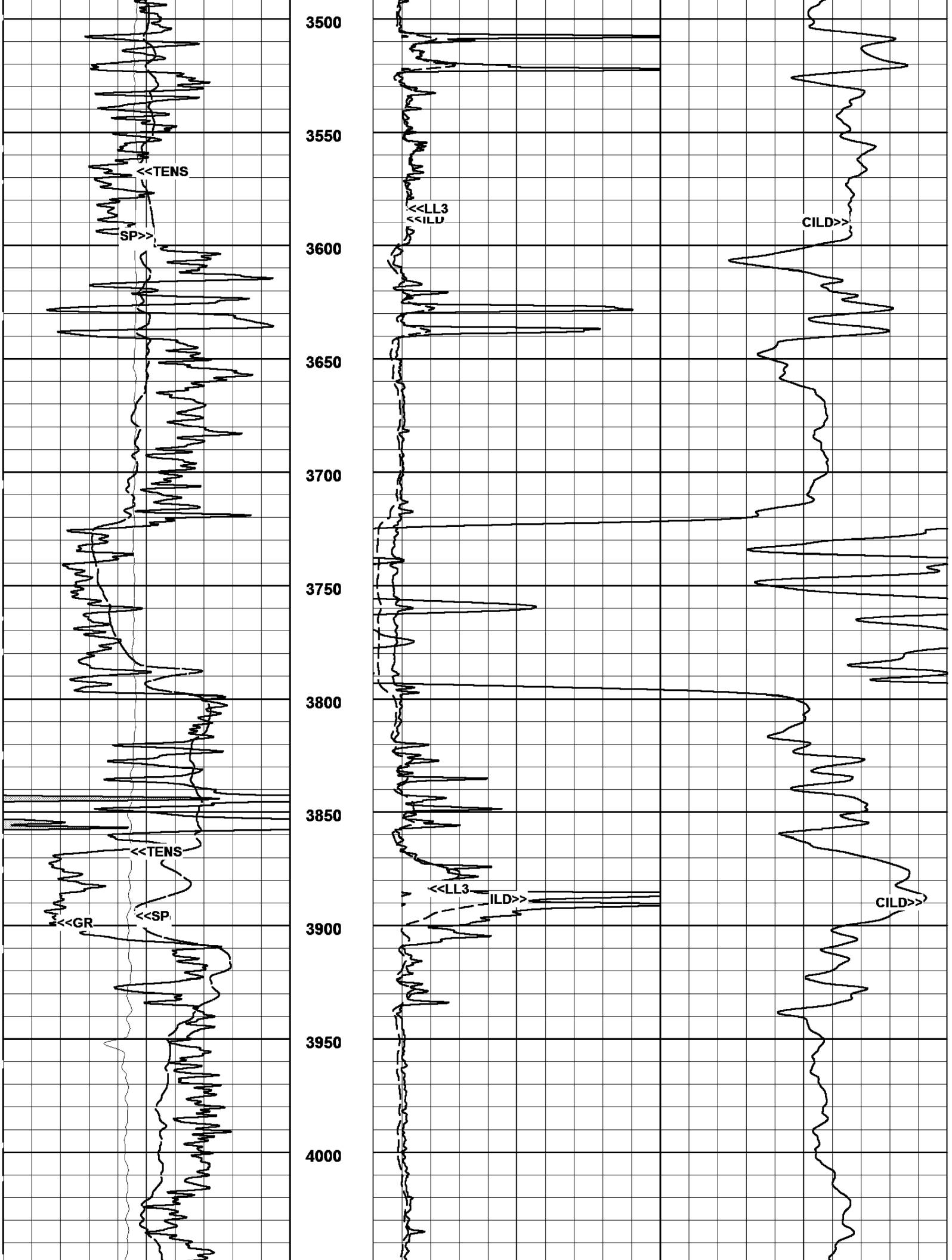


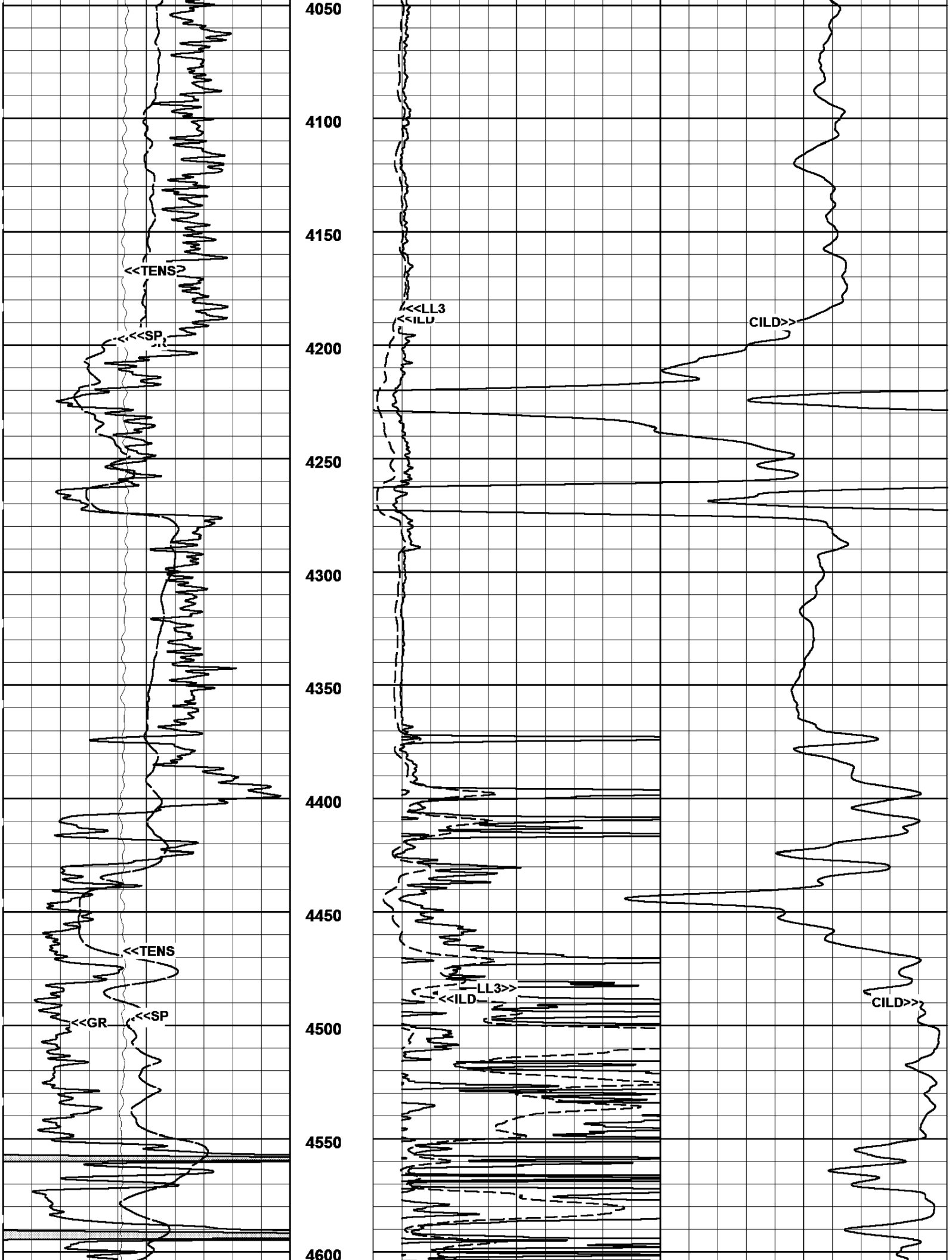


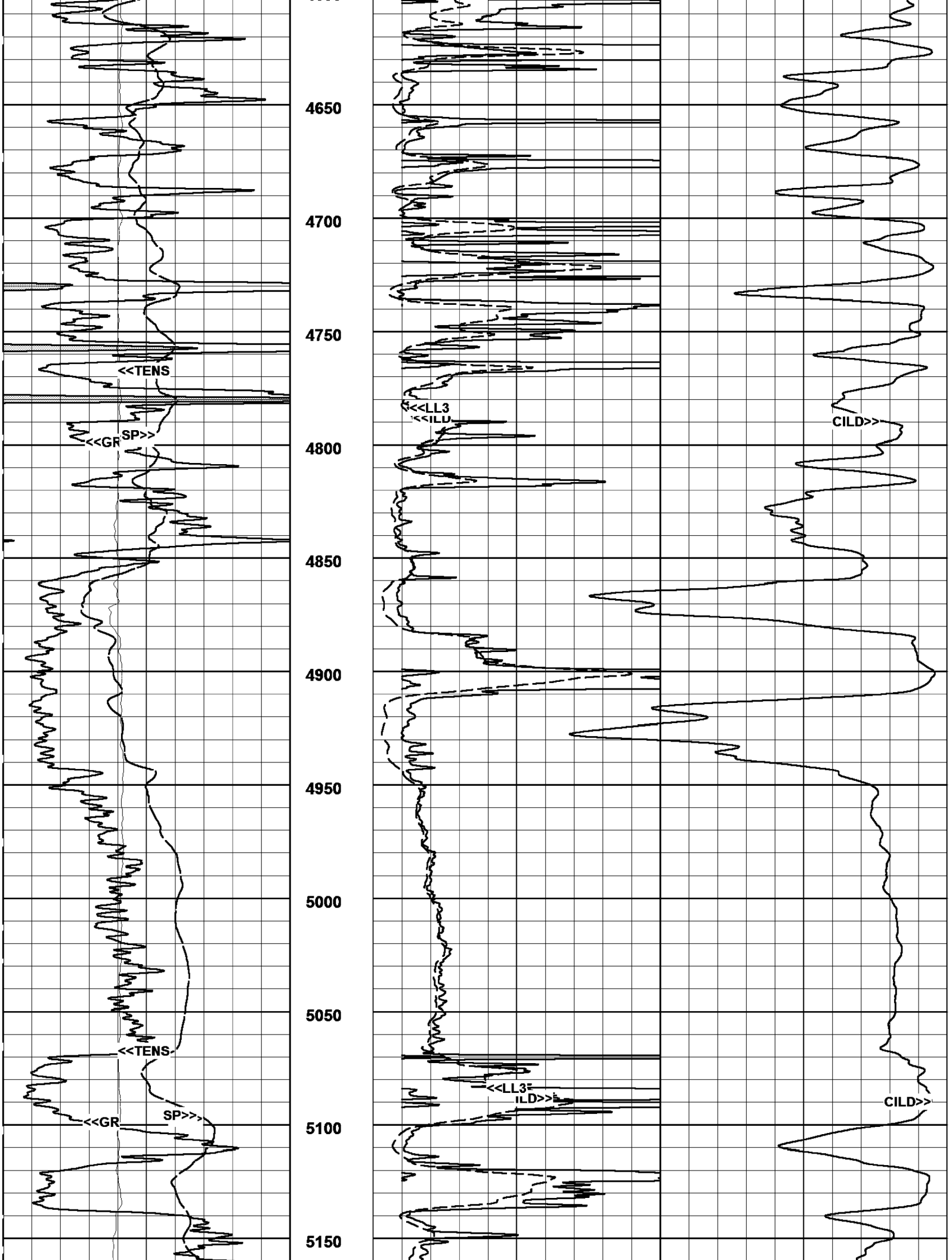


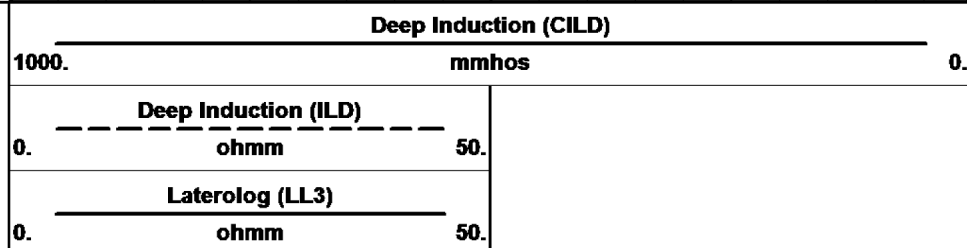
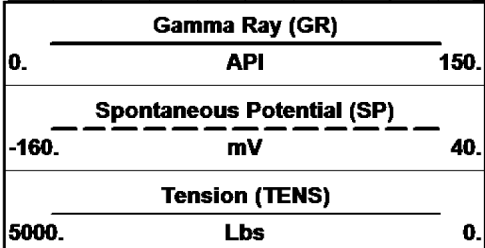
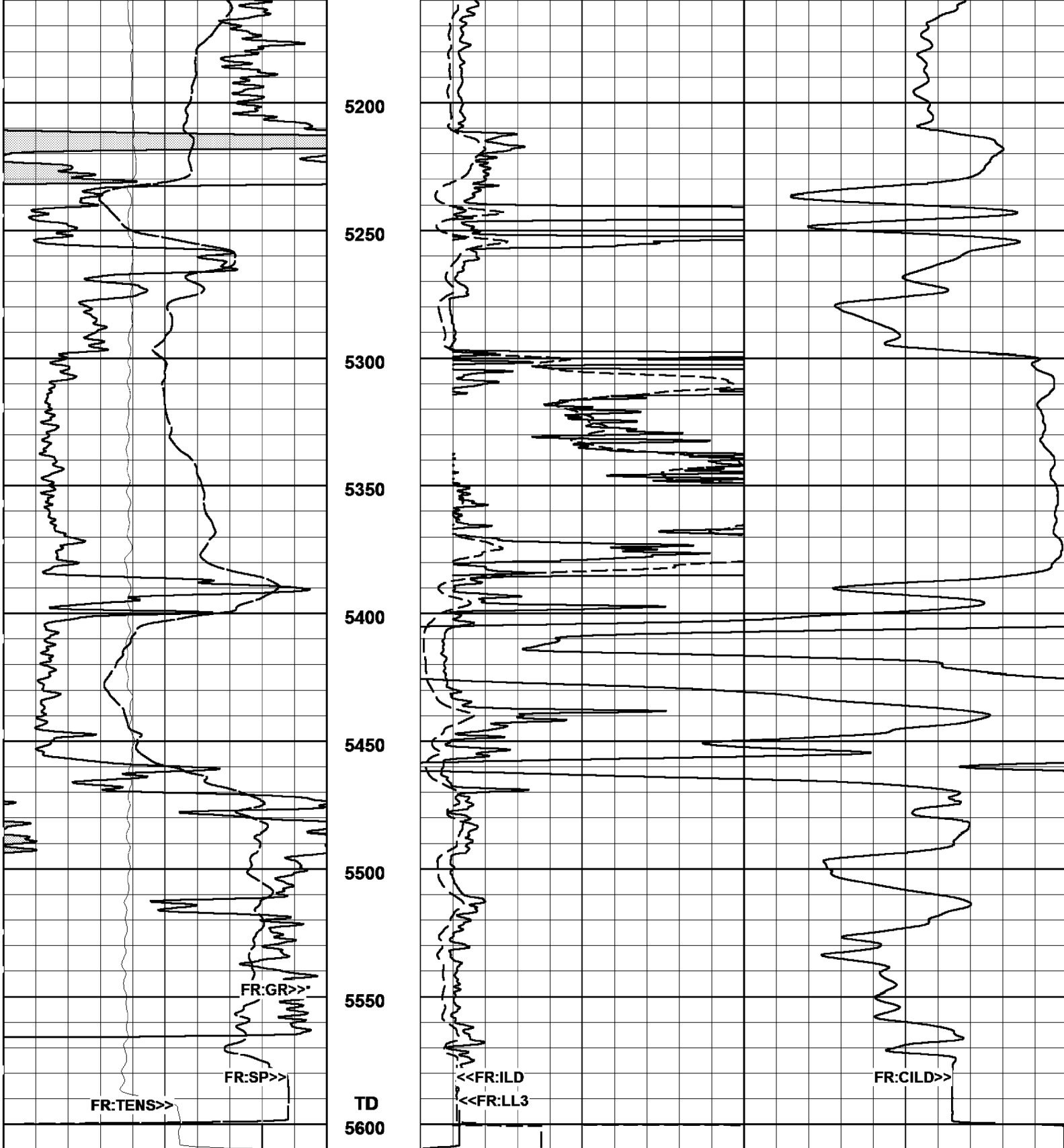












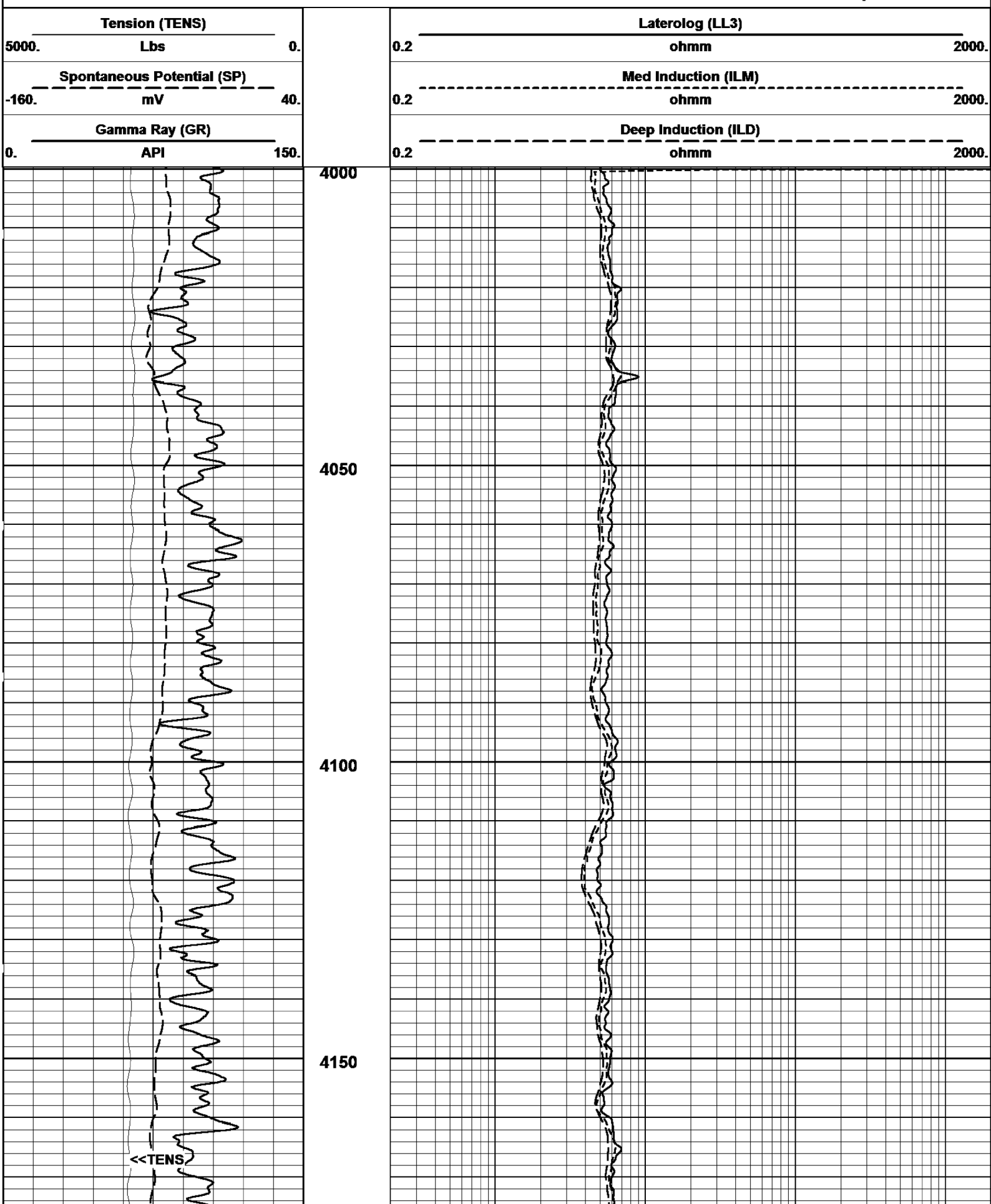
05/07/2013

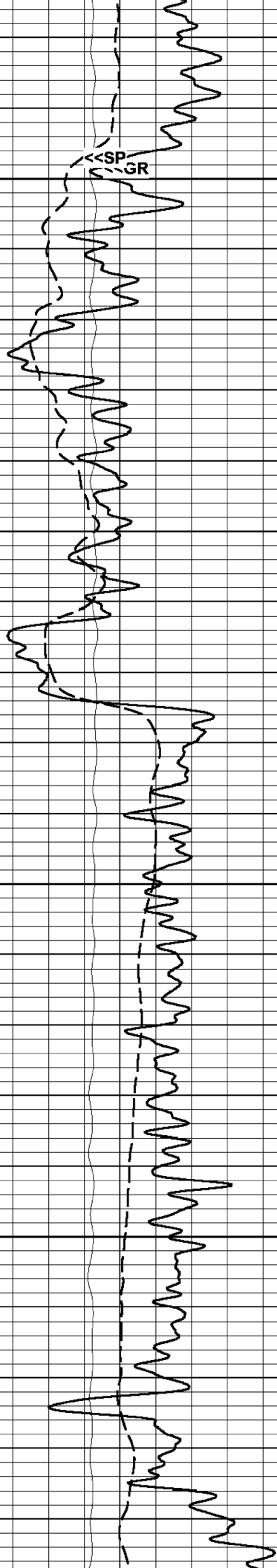
08:31:17 => Start Time

MAIN PASS (2"/100Ft)

Log UP - (VER 11.14a)

Start Depth=> 5610.75 Feet



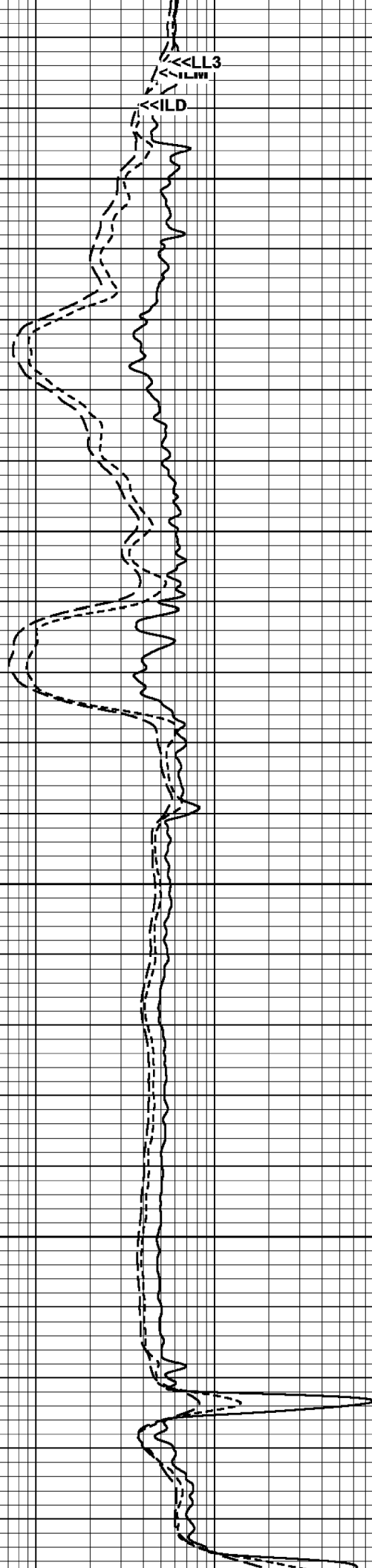


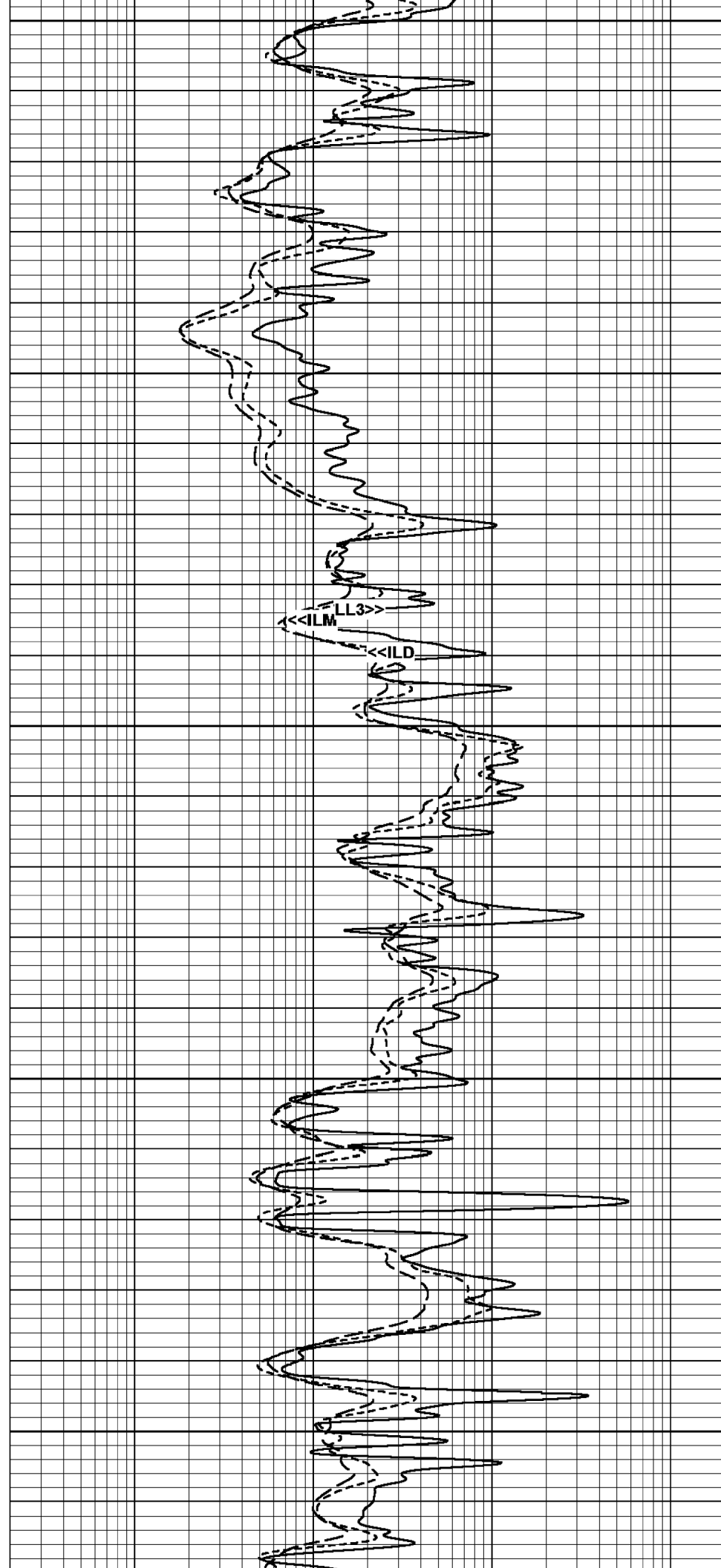
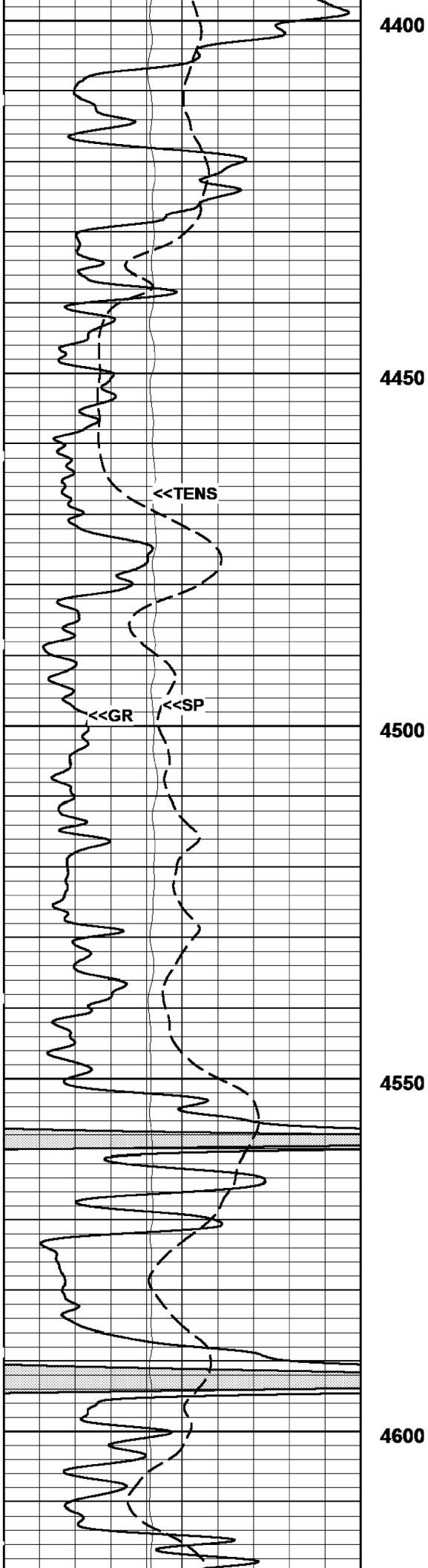
4200

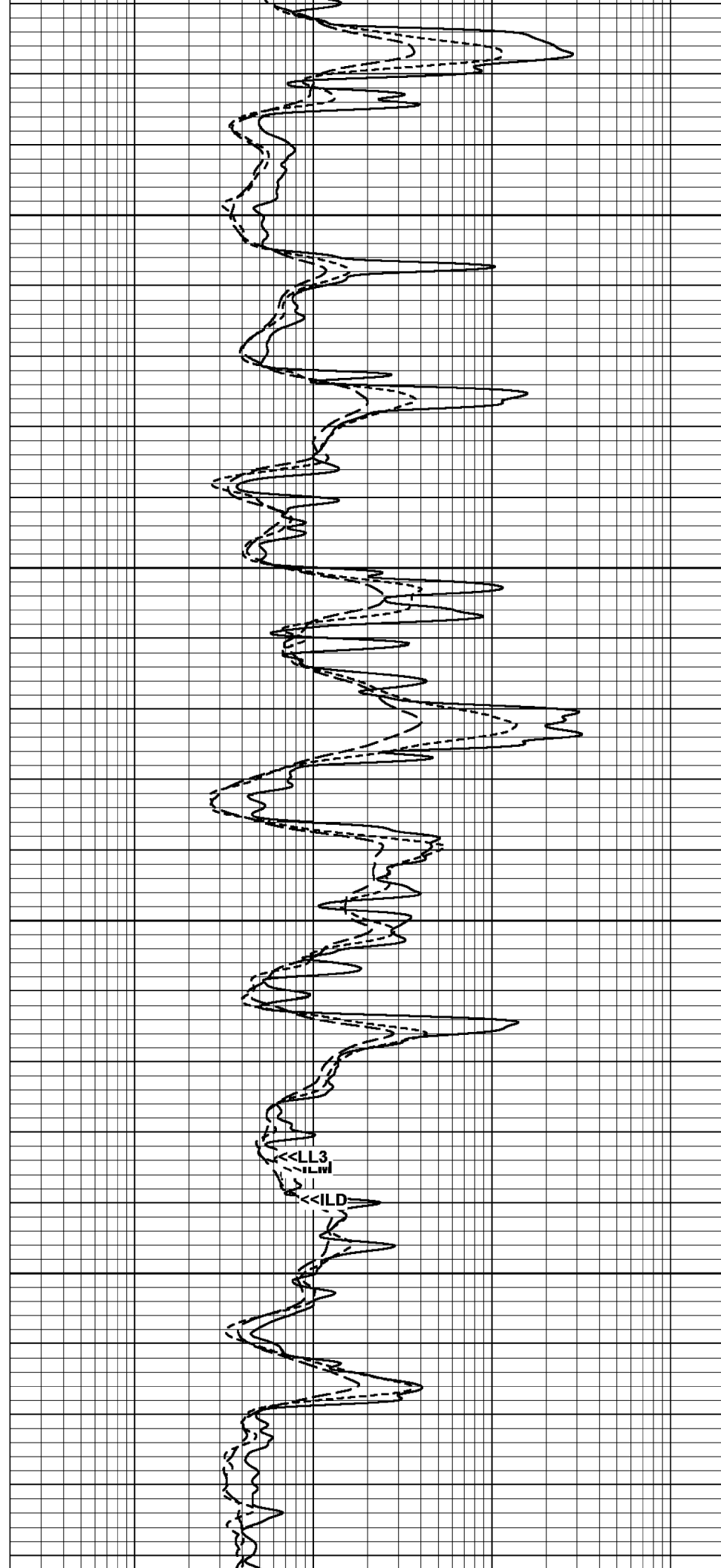
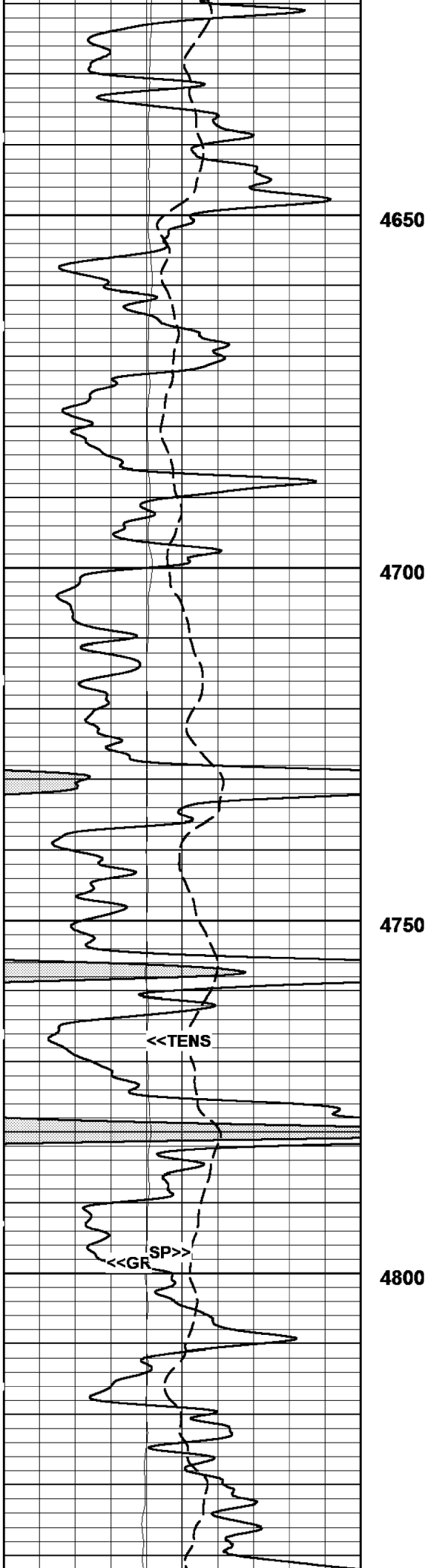
4250

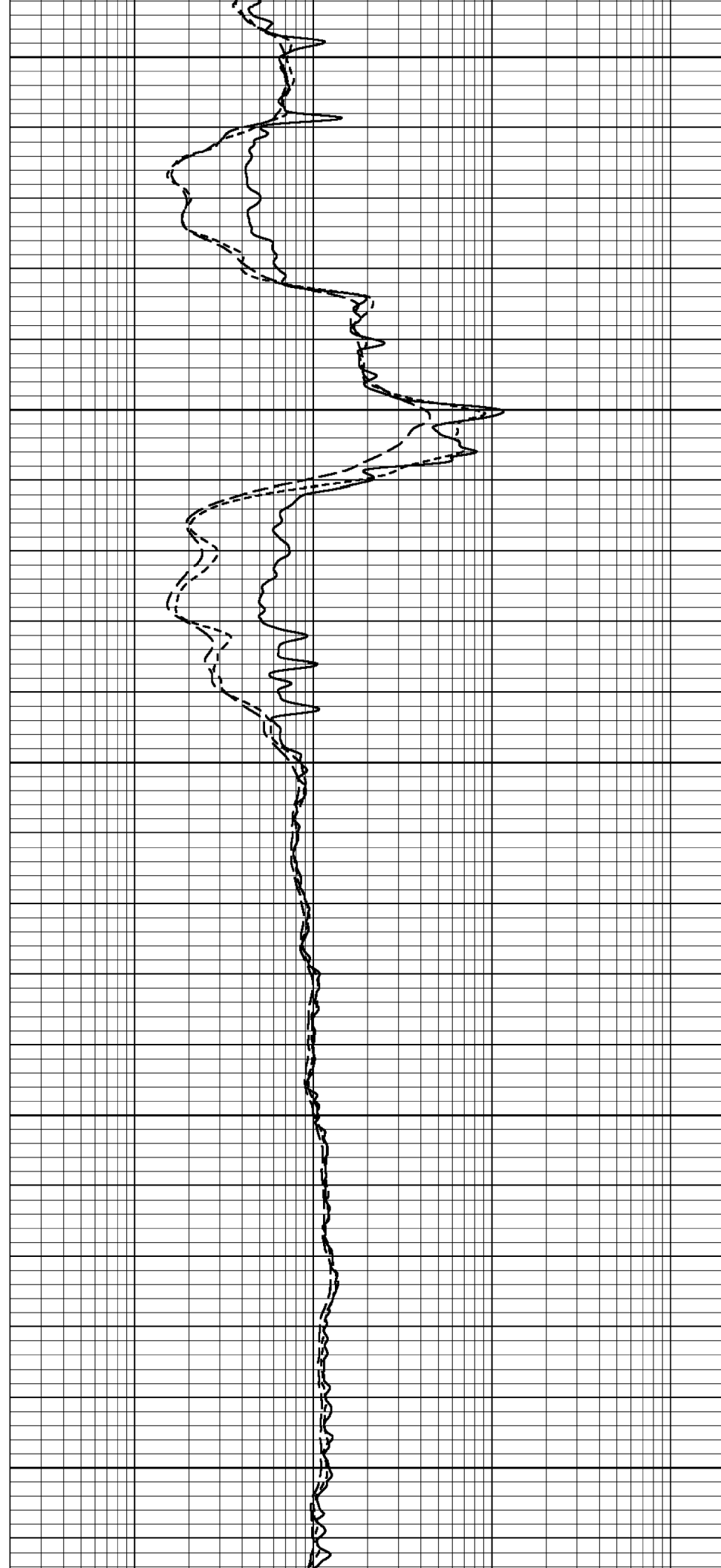
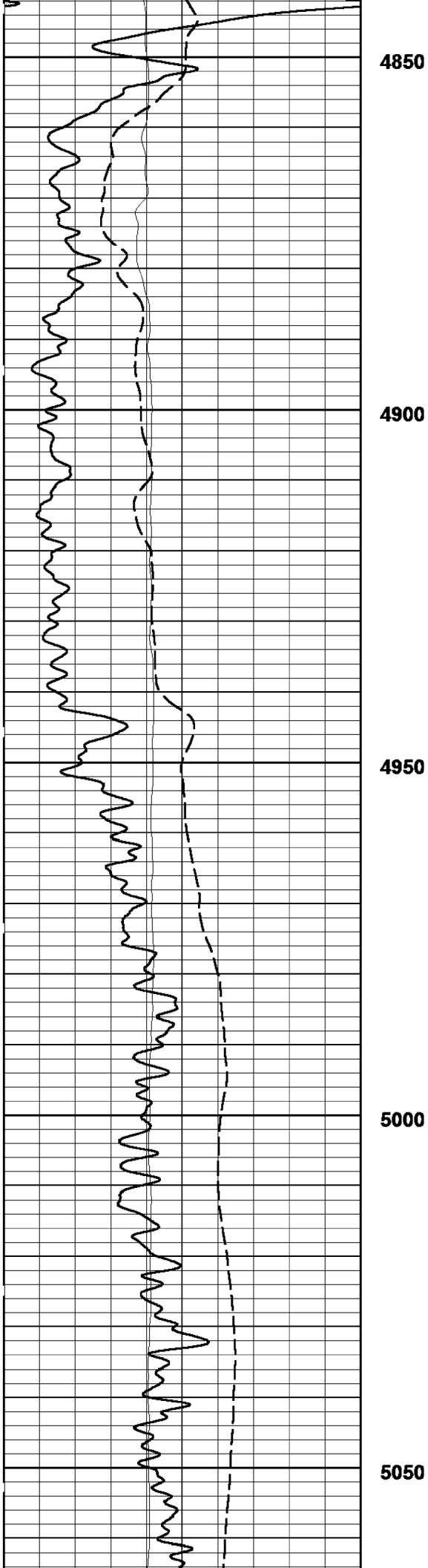
4300

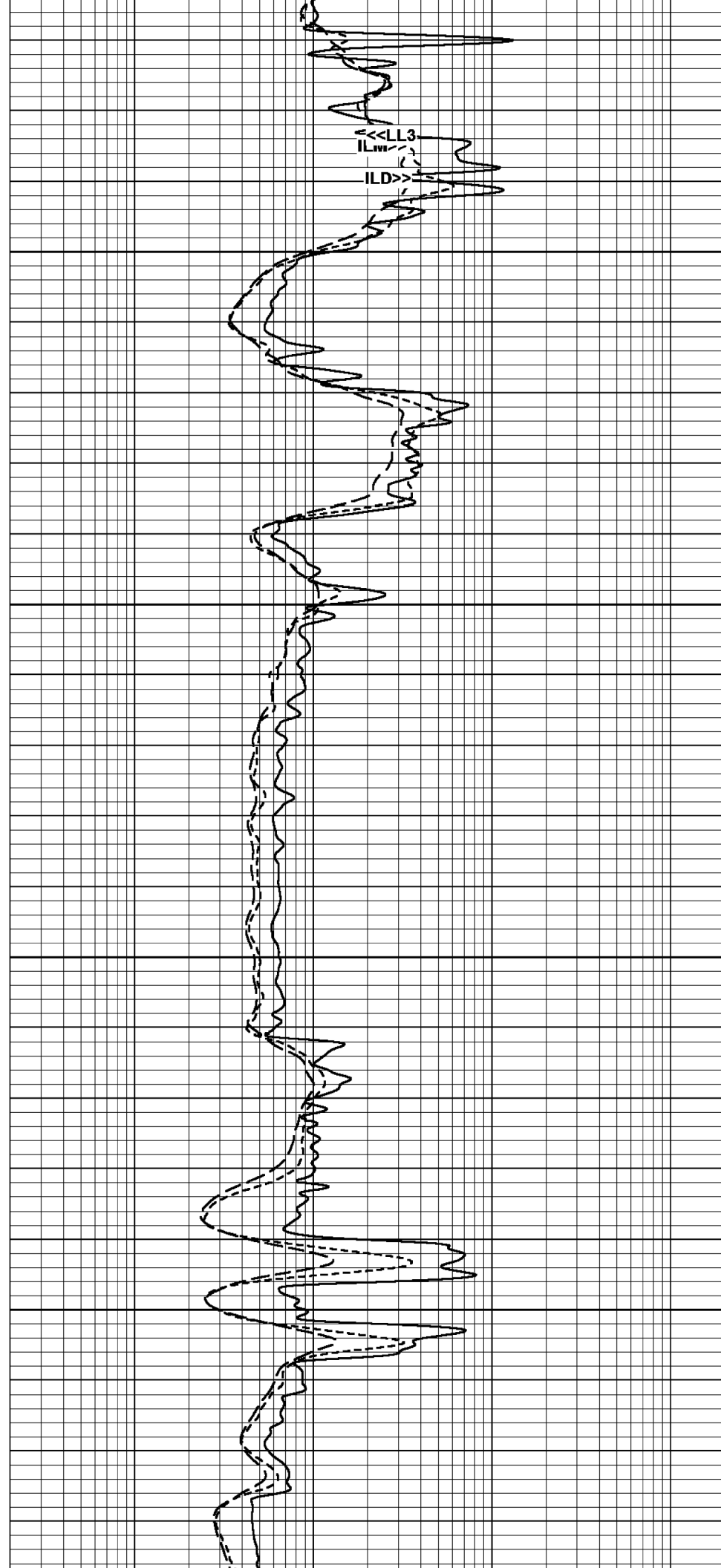
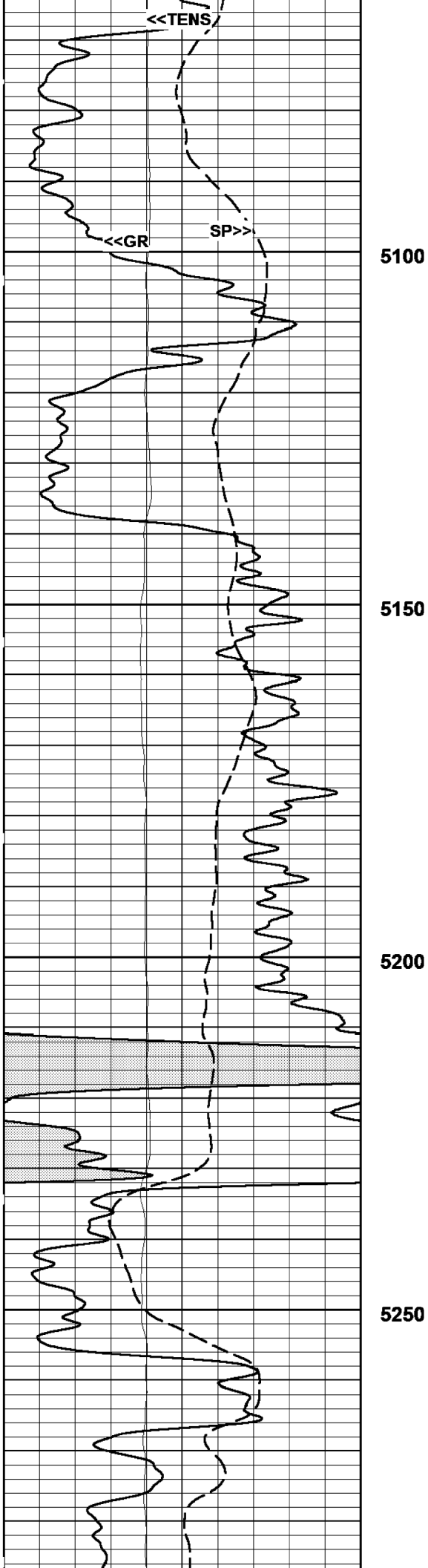
4350

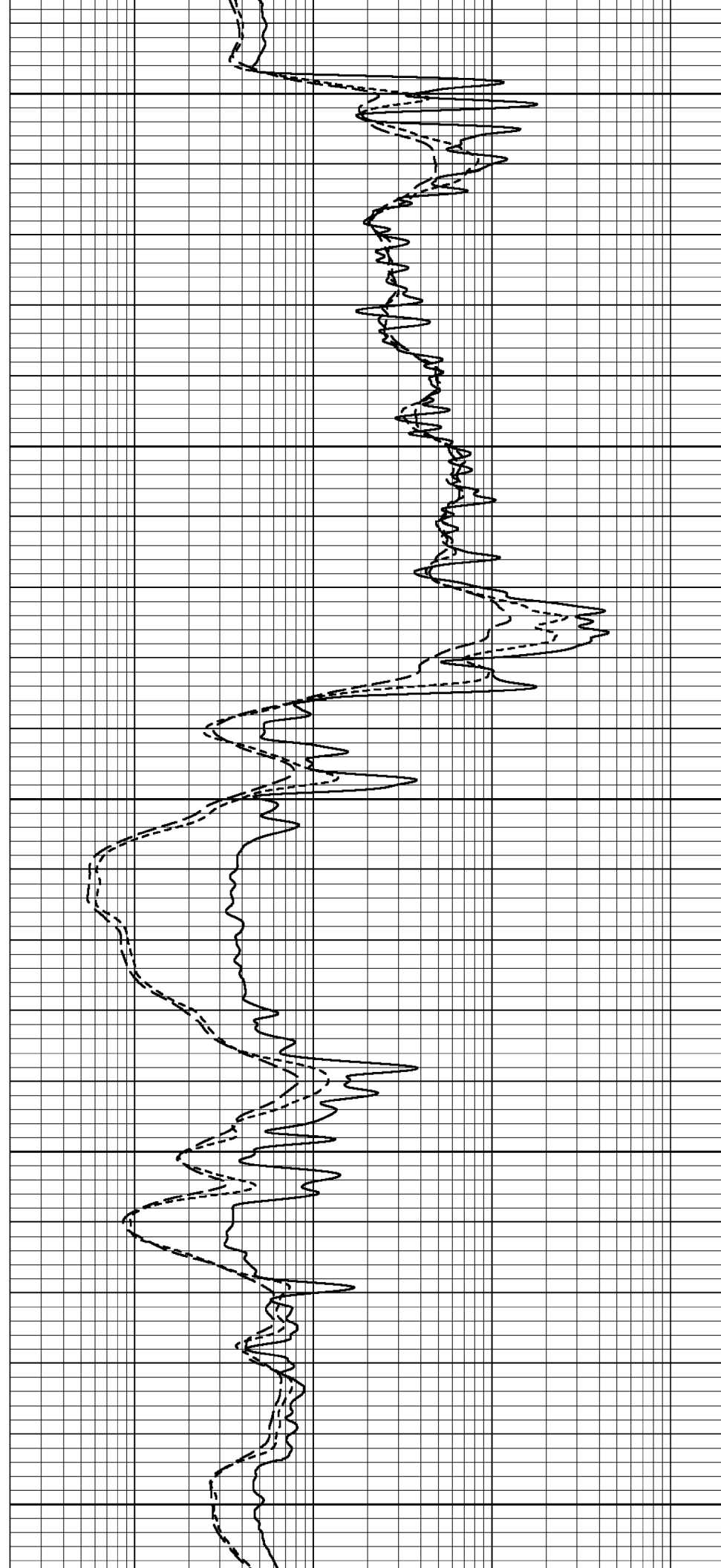
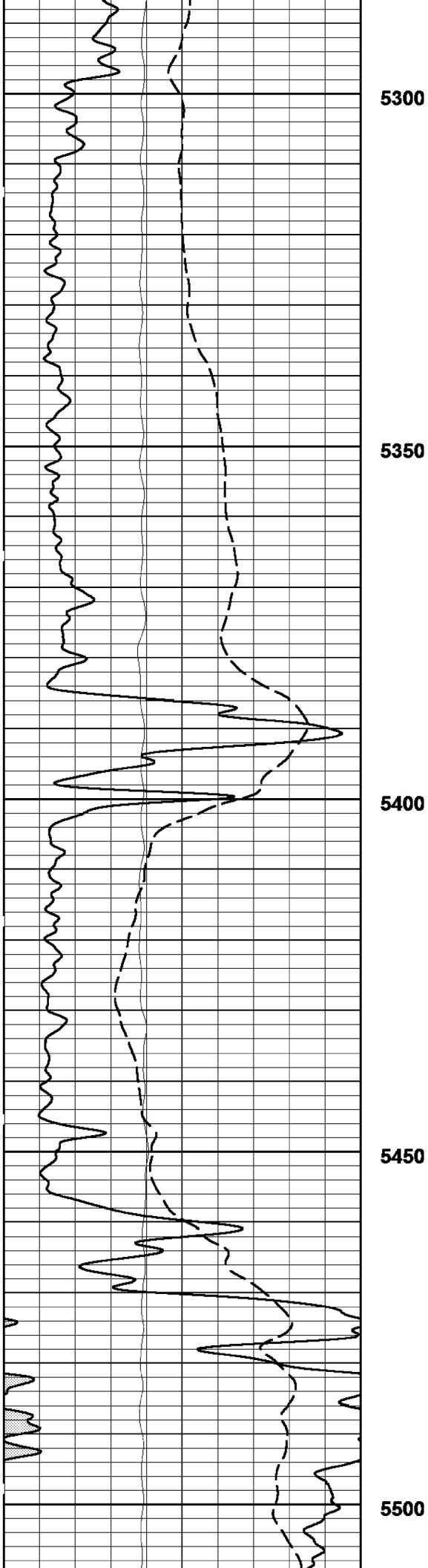


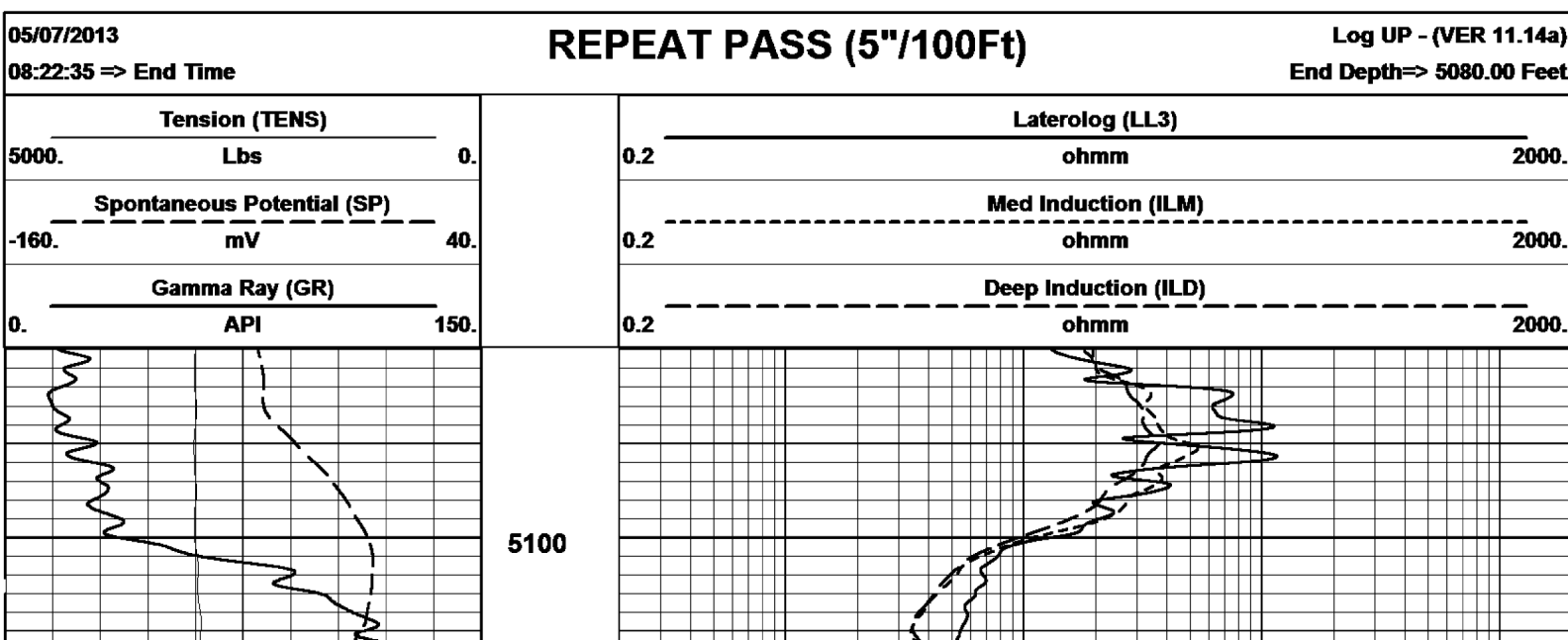
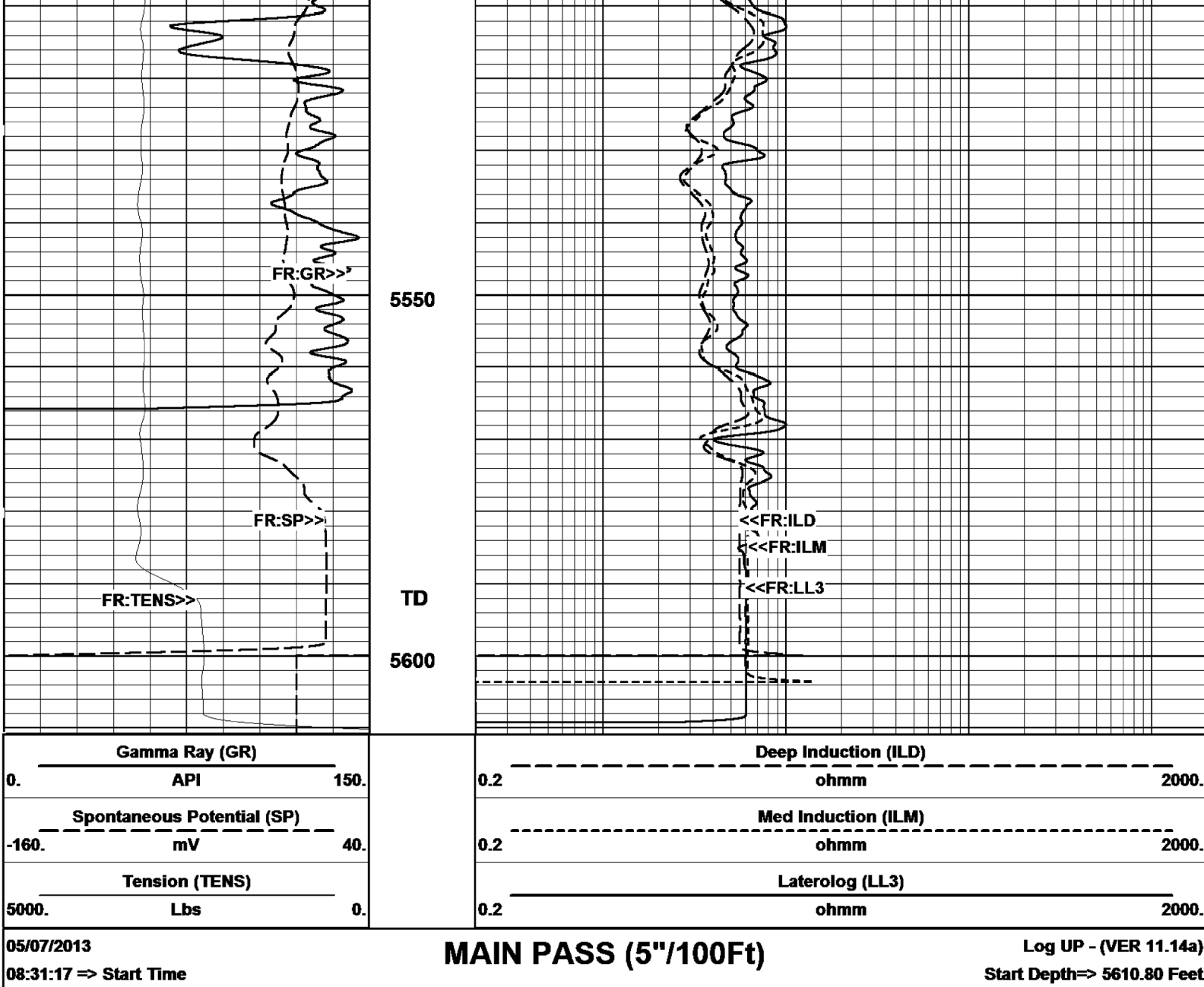


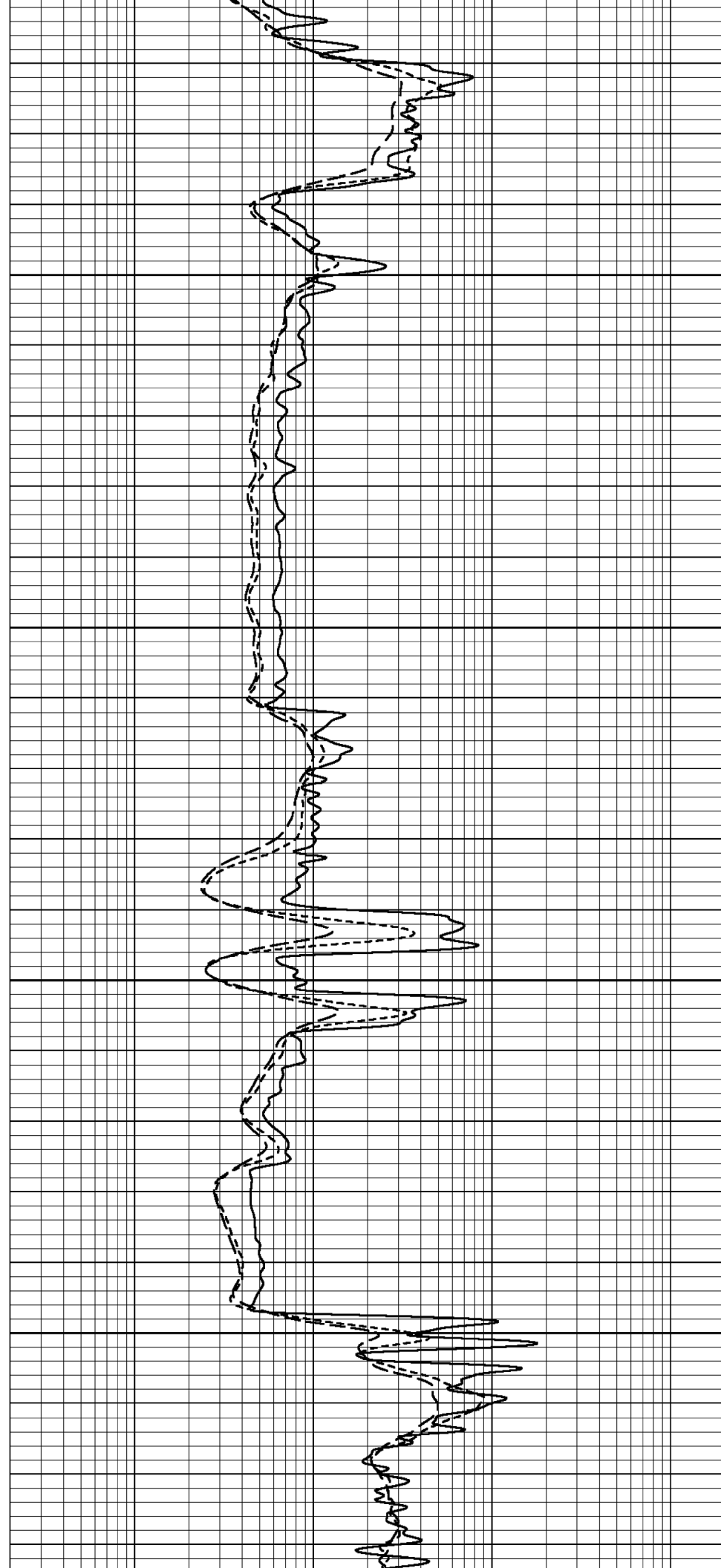
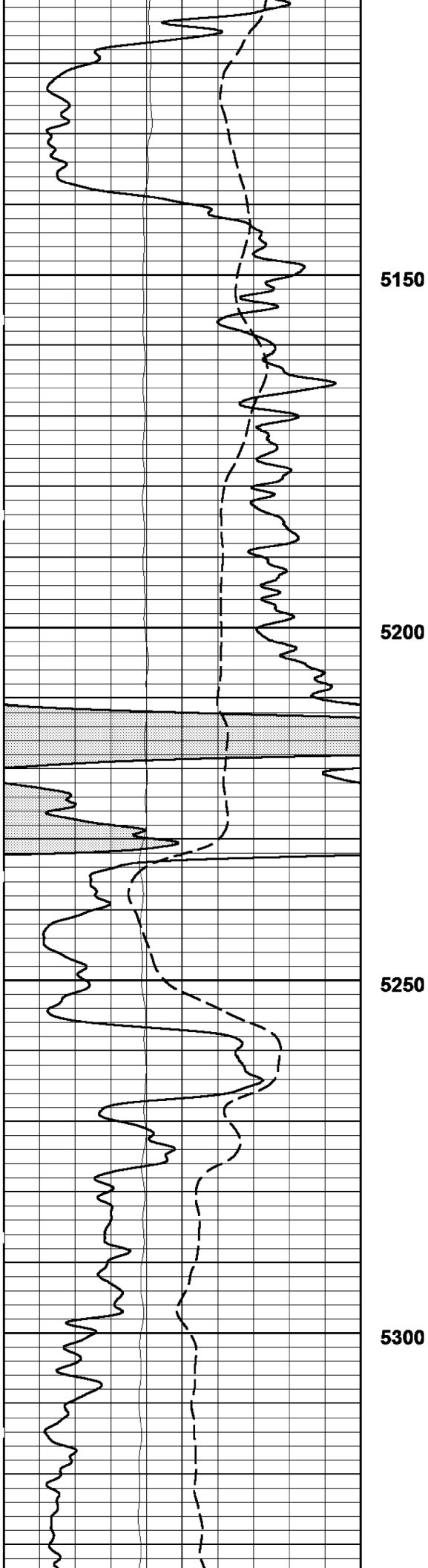


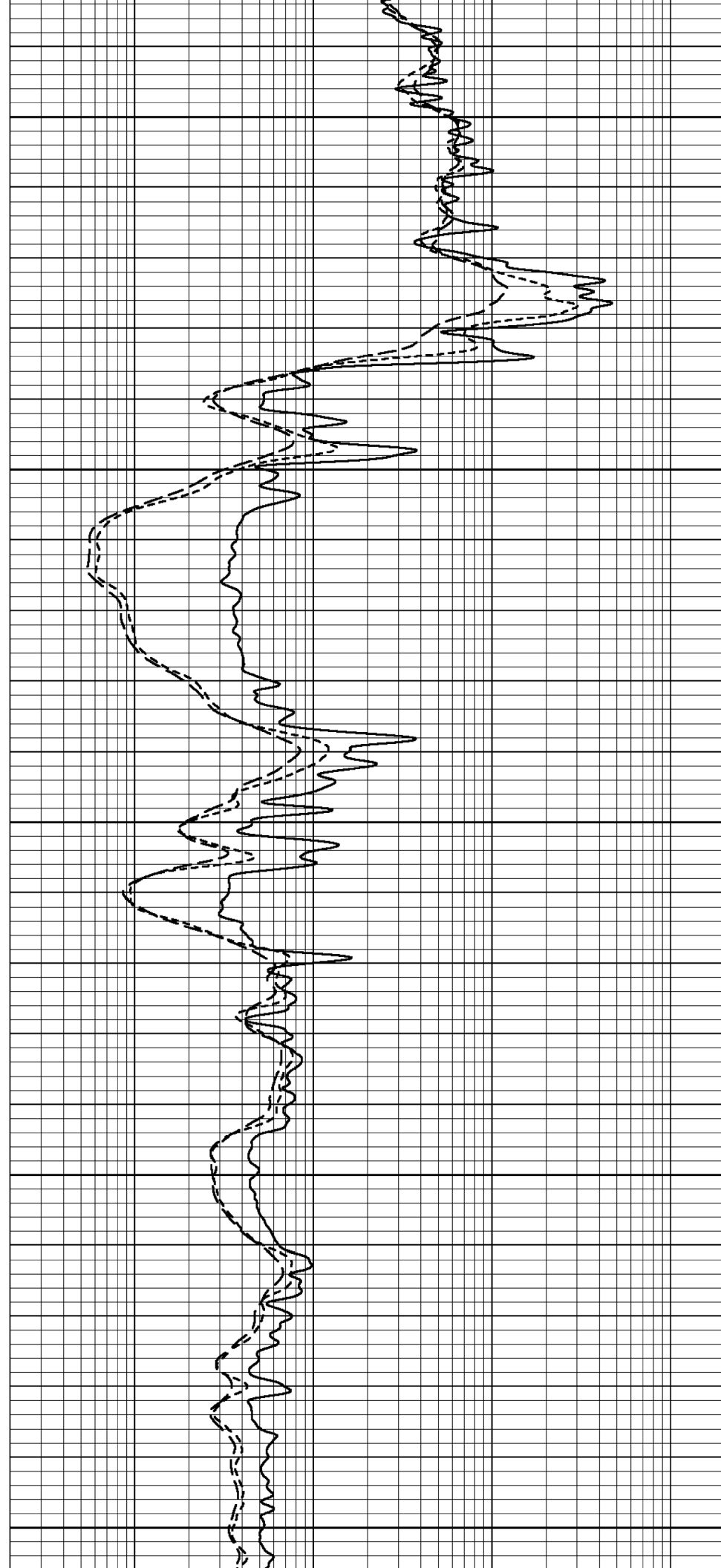
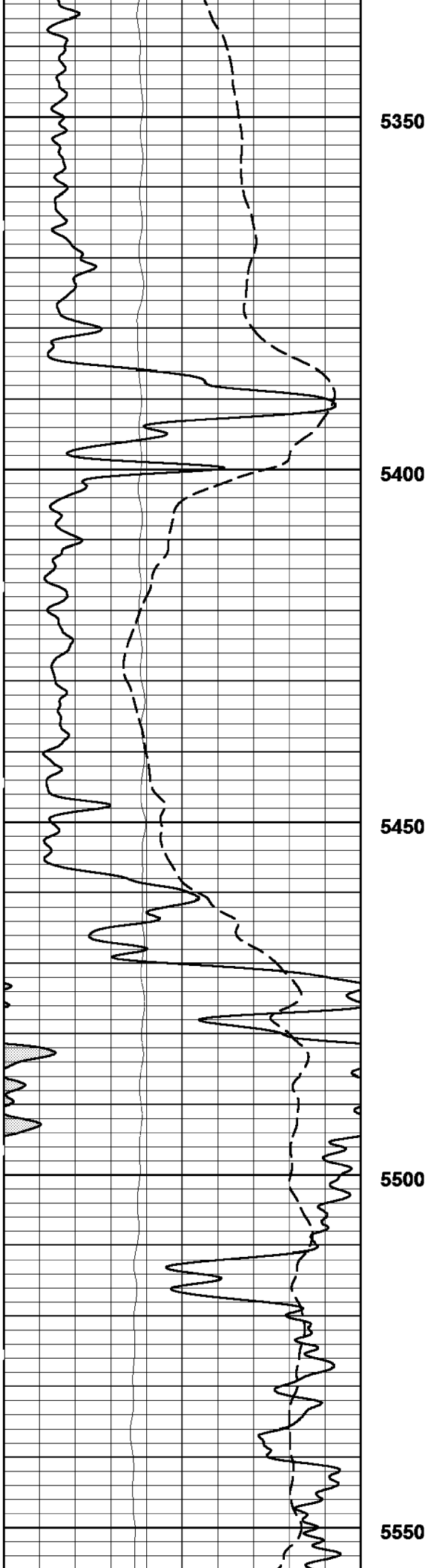


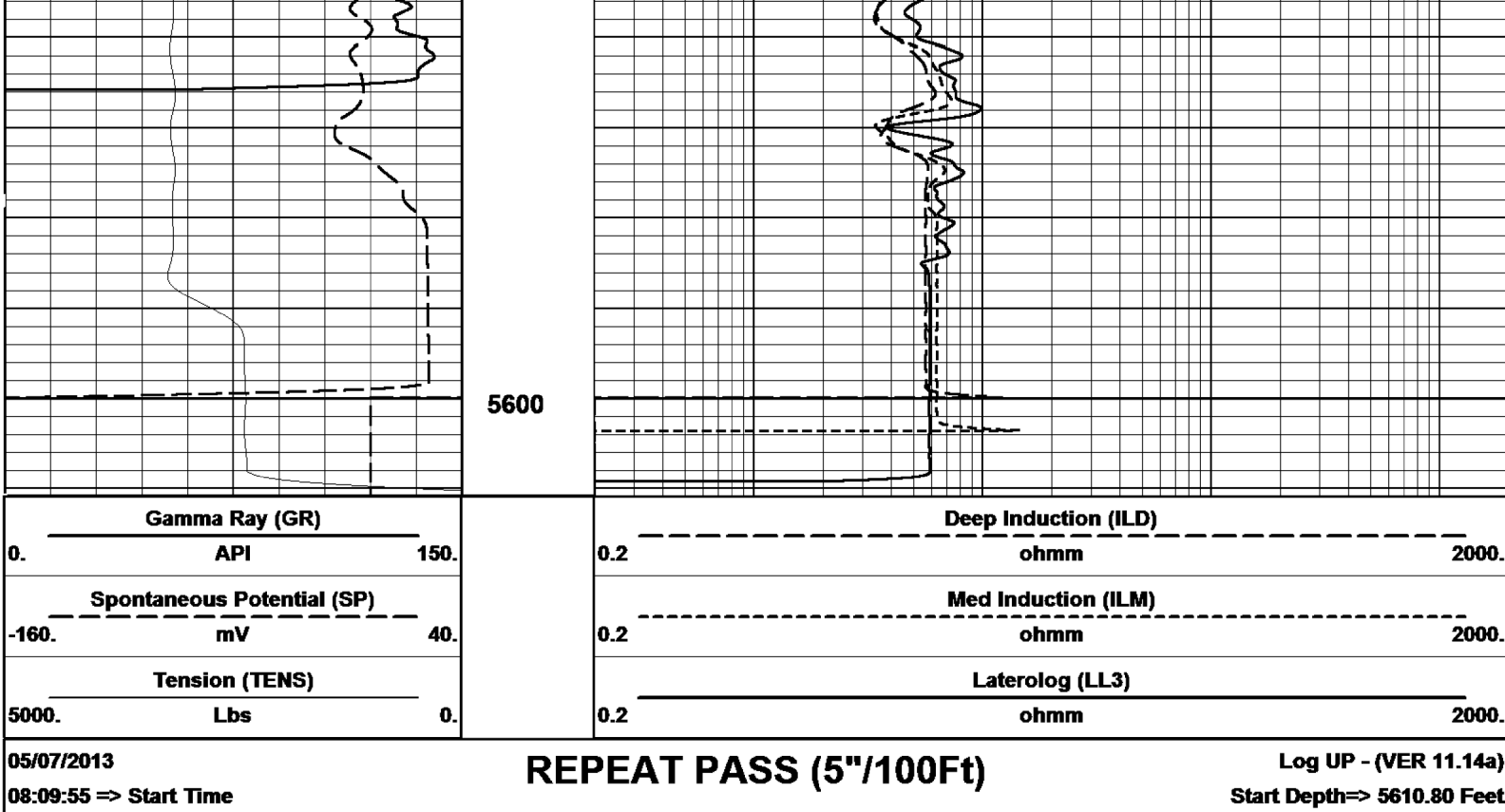












Induction Resistivity / Conductivity Calibrations

TOOL TYPE
SERIAL NUM

Slim Hole Induction
RD1002

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	-7.799	643.238	M/D/Y> 1/17/2013	H:M:S> 13:30:23
MED INDUCTION	0.000		462.500	501.895	9.899	793.105	M/D/Y> 1/17/2013	H:M:S> 13:30:36
SHALLOW LATERLOG	CALIBRATOR LOW(ohm)		CALIBRATOR HI(ohm)		LOW(mV)	HI(mV)	M/D/Y> 1/17/2013	H:M:S> 13:30:41
	2.000		500.000		11.463	2497.944		

WELL SITE CALIBRATIONS

GAMMA RAY CALIBRATIONS

SERIAL NUM
BLANKET NUM

RG3007
1A

MASTER CALIBRATIONS

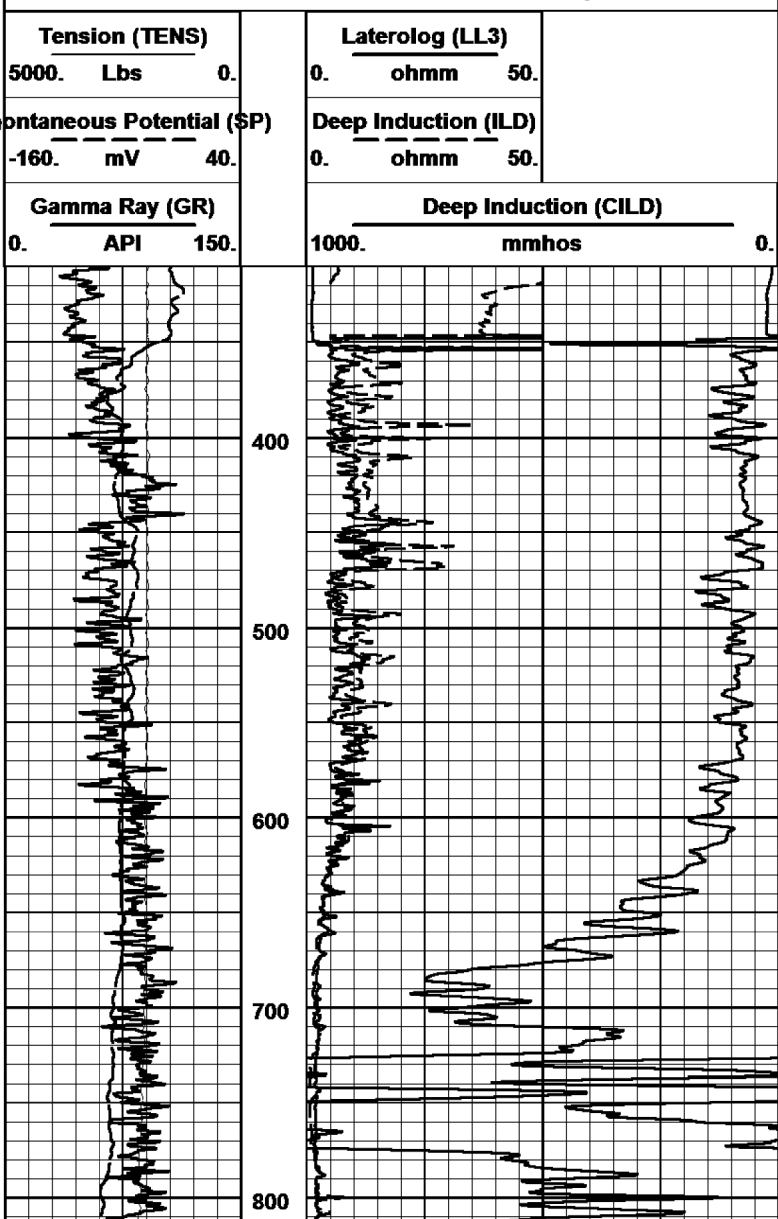
	LowVal: 0.000 API	HighVal: 135.000 API	Gain/Offset	CALIBRATION DATE	CALIBRATION TIME
BASE CALS	0.000 - raw	382.147 - raw	0.415 - gain 0.000 - off	M/D/Y> 1/27/2012	H:M:S> 14:23:8

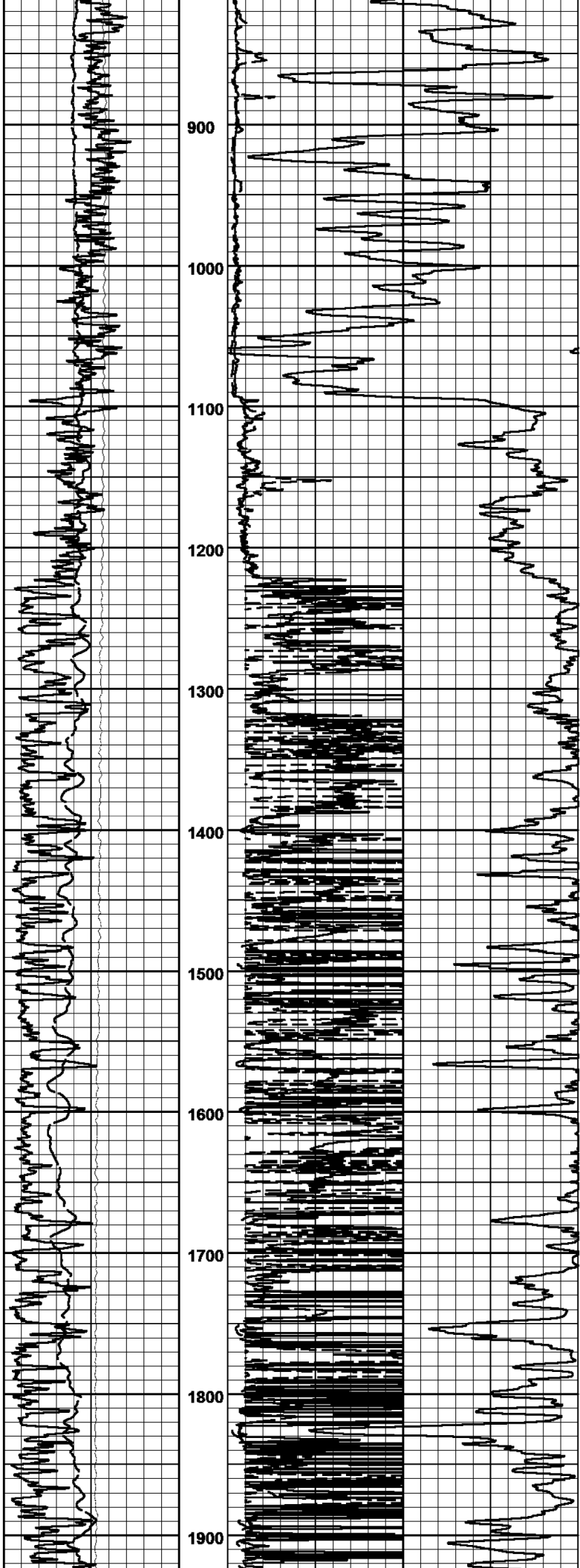
Company	VAUGHN GOOD OIL COMPANY
Well	NUSSER #3-16
Field	S.E. HARDTNER
County	BARBER
State	KANSAS

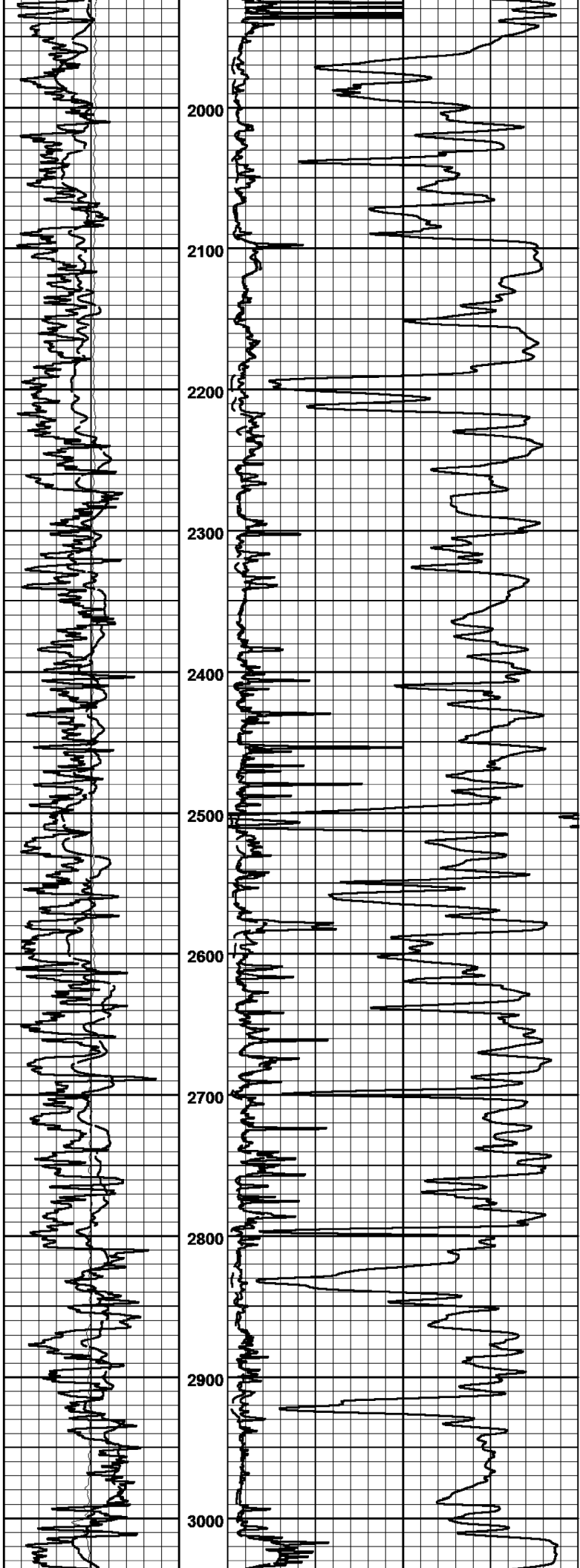
RECON

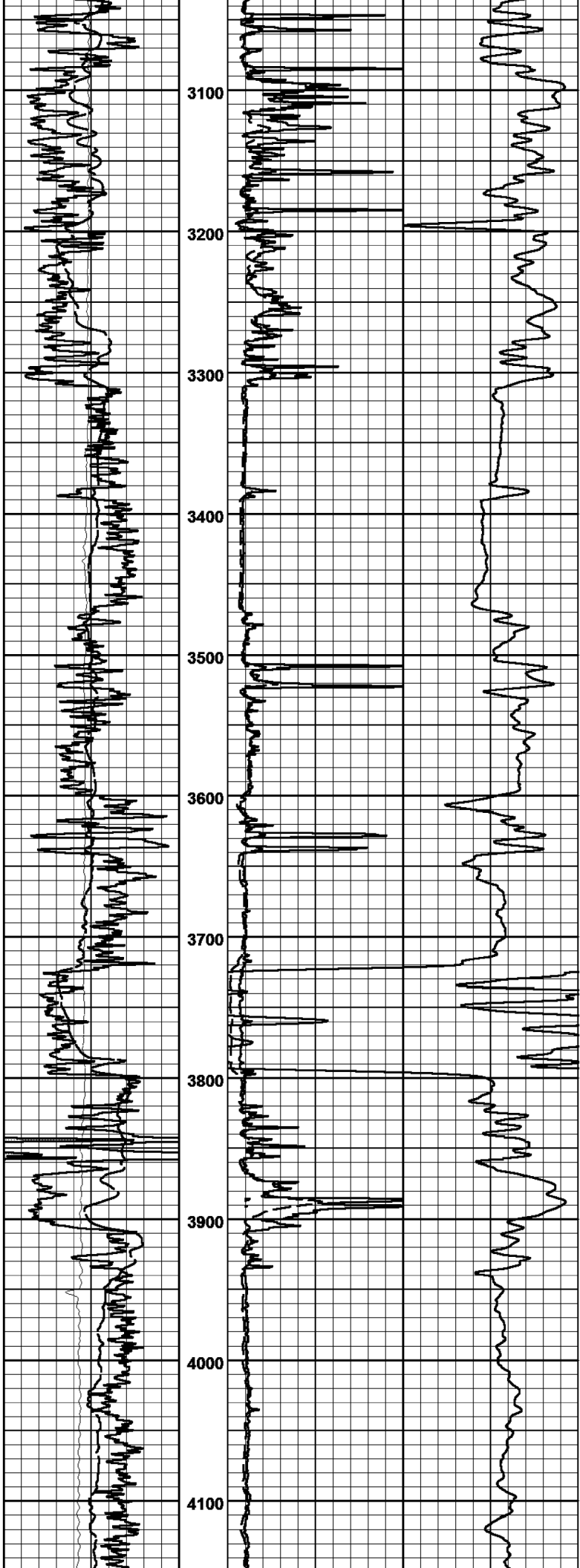
DUAL INDUCTION
LATEROLOG - SP
GAMMA RAY

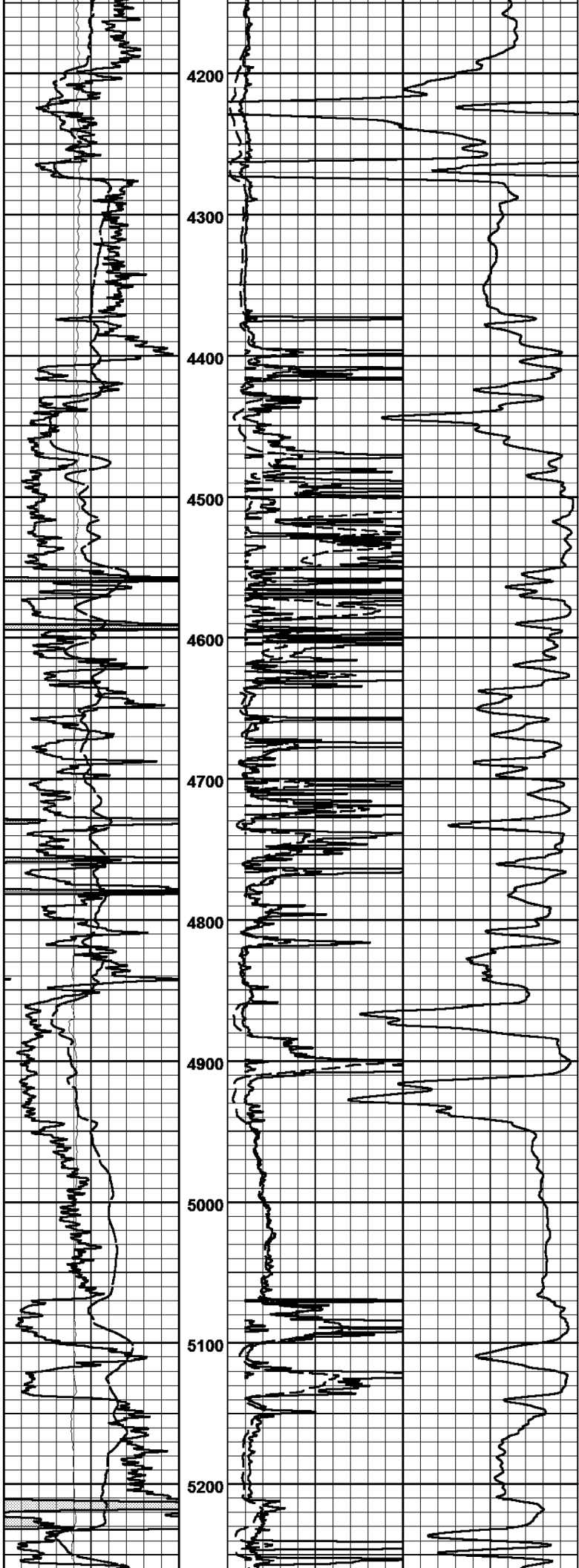
05/07/2013 MAIN PASS (1"/100FT) Log UP - (VER 11.14a)
10:00:58 => End Time End Depth=> 310.00 Feet

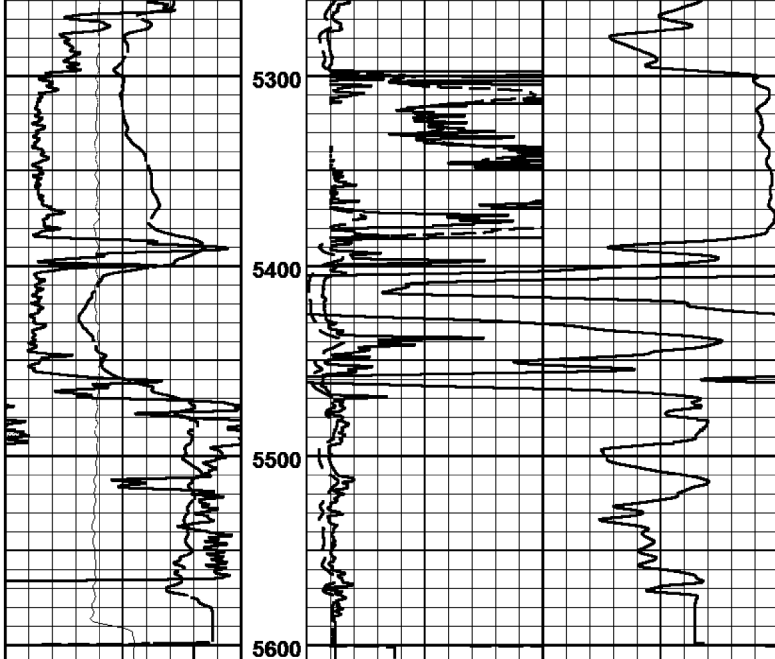












Gamma Ray (GR)		Deep Induction (CILD)	
0.	API 150.	1000.	mmhos 0.
Spontaneous Potential (SP)		Deep Induction (ILD)	
-160.	mV 40.	0.	ohmm 50.
Tension (TENS)		Laterolog (LL3)	
5000.	Lbs 0.	0.	ohmm 50.
05/07/2013 MAIN PASS (1"/100FT) Log UP - (VER 11.14a)			
08:31:17 => Start Time		Start Depth=> 5610.50 Feet	