

Company VAUGHN GOOD OIL COMPANY
Well NUSSER #4-16
Field S.E. HARDTNER
County BARBER
State KANSAS

RECON

DUAL INDUCTION
LATEROLOG - SP
GAMMA RAY

SEC	TWP	RGE	OTHER SERVICES:	
16	35S	12W	LDT	CNL
Location. 330' FNL & 3220' FEL		NE NE NW	XY CALIPER	MICROLOG
SURF. SAME	AP#:	015-007-24060	ELEVATIONS	
Permanent Datum	Ground Level	Elev	K.B.	1412
Log Measured From	Kelly Bushing		G.L.	1399
Drilling Measured From	Kelly Bushing		D.F.	1410

Date	26-SEP-2013				
Run No.	ONE				
TD Driller	5610	ft		ft	
TD RECON	5610	ft		ft	
Bot Logged Interval	5609	ft		ft	
Top Logged Interval	4000	ft		ft	
Casing Depth Driller	8 5/8	in.	@	373	
Casing Depth RECON	8 5/8	in.	@	385	
Bit Size	7 7/8	in.		in.	
Drilling Fluid Type	CHEMICAL				
Density	9.2	ppg	65	sec/qt	
Fluid Loss	9.0	ml/30min	10.5	strip	
Source Of Sample	Flowline				
RM @ Measured Temp	0.543	Ohmm	@	75	Ohmm @
RMF @ Measured Temp	0.407	Ohmm	@	75	Ohmm @
RMC @ Measured Temp	0.679	Ohmm	@	75	Ohmm @
RM @ MRT	0.318	Ohmm	@	133	Ohmm @
Max Recorded Temp	133	DegF		DegF	
Time Drilling Stopped	26-SEP-2013		13:30		
Time Circulation Stopped	26-SEP-2013		16:30		
Time Logger On Bottom	26-SEP-2013		22:02		
Unit Num	S409	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.

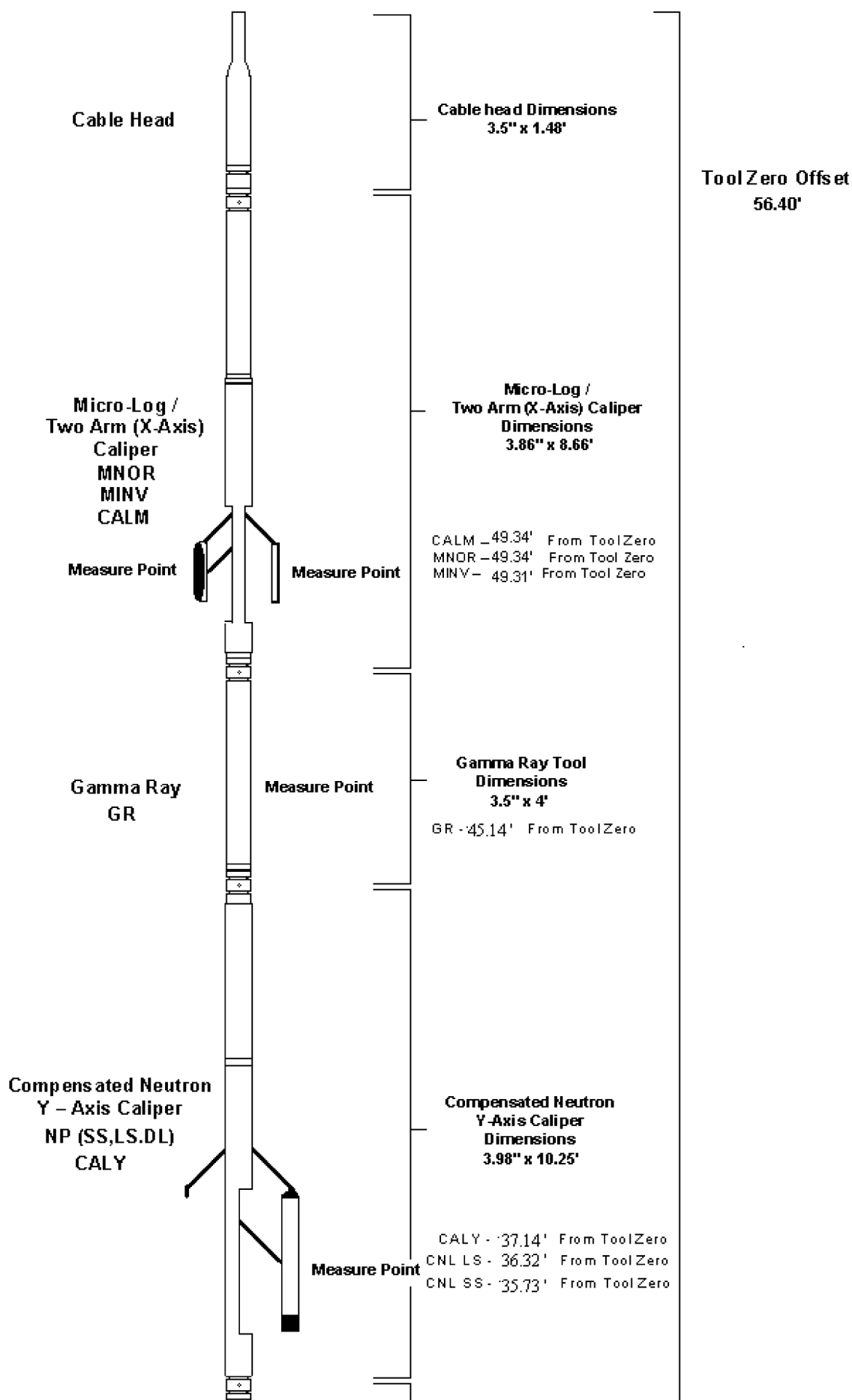
RIG INFORMATION

Drill Contr/Rig#	MENDENHALL DRLG. #3

GENERAL REMARKS SECTION

FIRST RUN IN THE HOLE CNL AND LDT LOGGED IN A LIMESTONE MATRIX TOP MARK - 352.1, BOTTOM MARK - 5557.6 CNL/LDT LOGGED MATRIX: 2.71 g/cc. CHLORIDES: 8000 ppm LCM: 8 lb/bbl THANK YOU FOR USING RECON PETROTECHNOLOGIES LTD.	AHV CALCULATED ON 5.5" PROD. CASING CREW: M. CALLENTINE
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**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

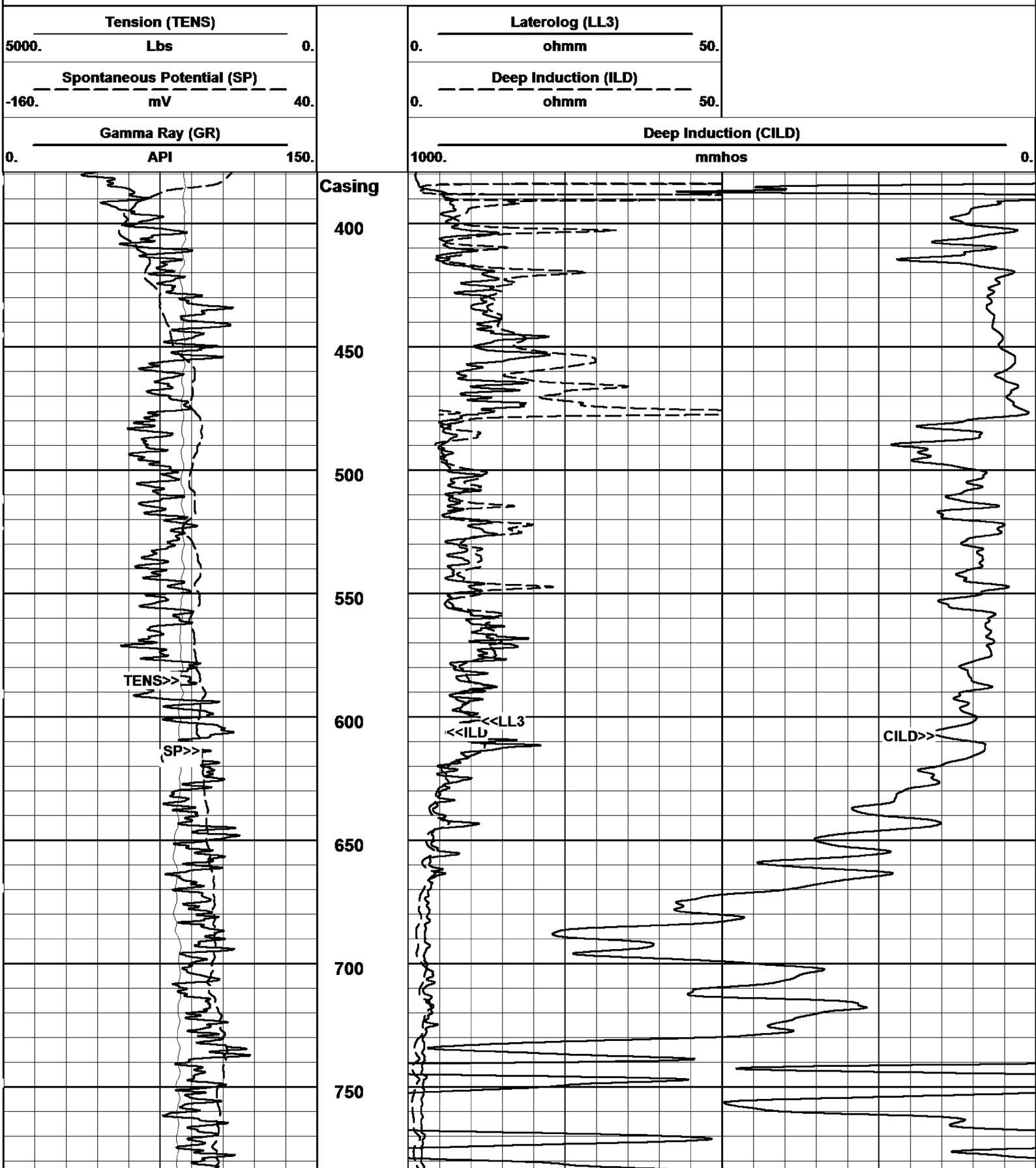
**Tool Zero Point
(Tool Bottom)**

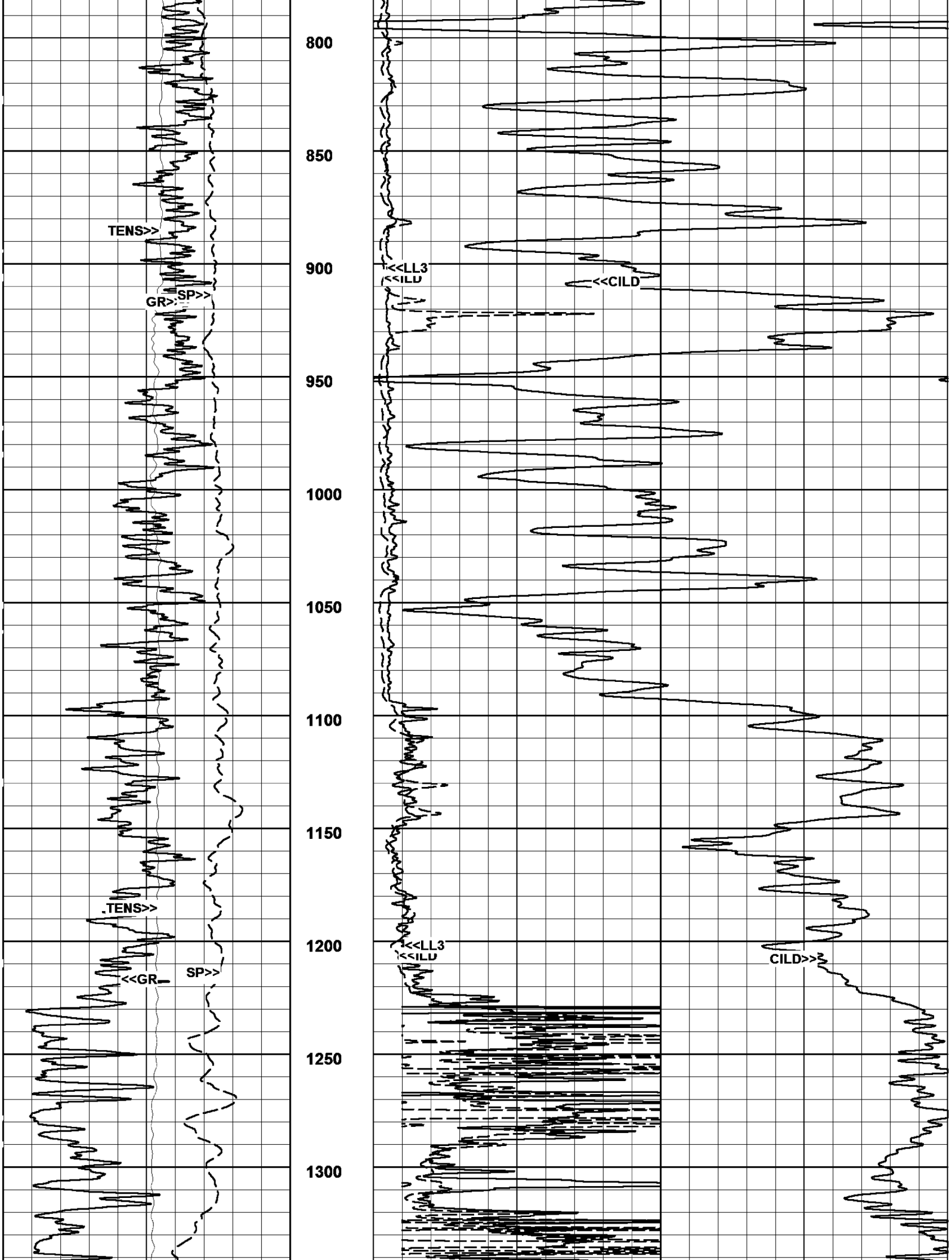
**All Measurements are
taken from Tool Zero**

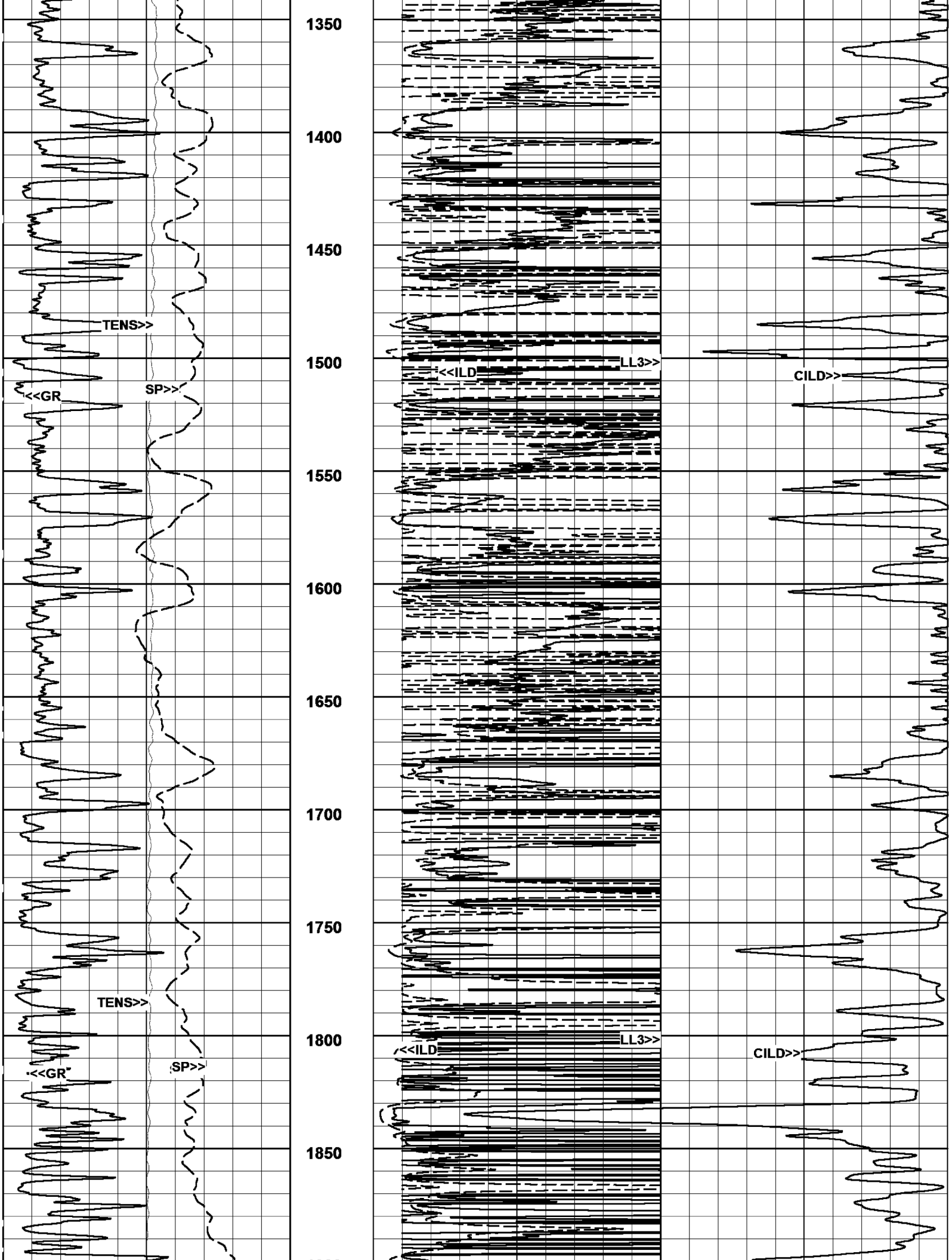
09/27/2013
00:05:15 => End Time

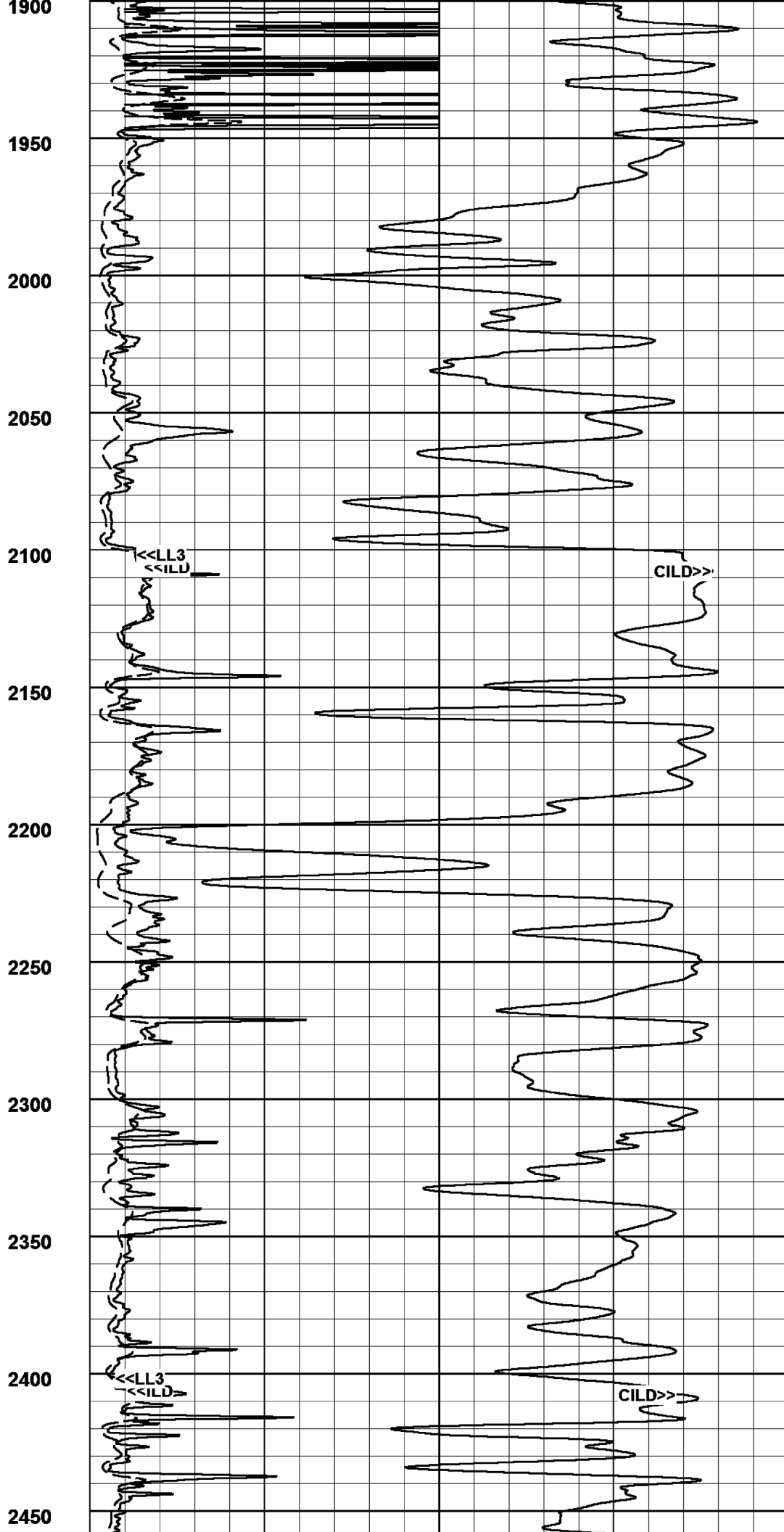
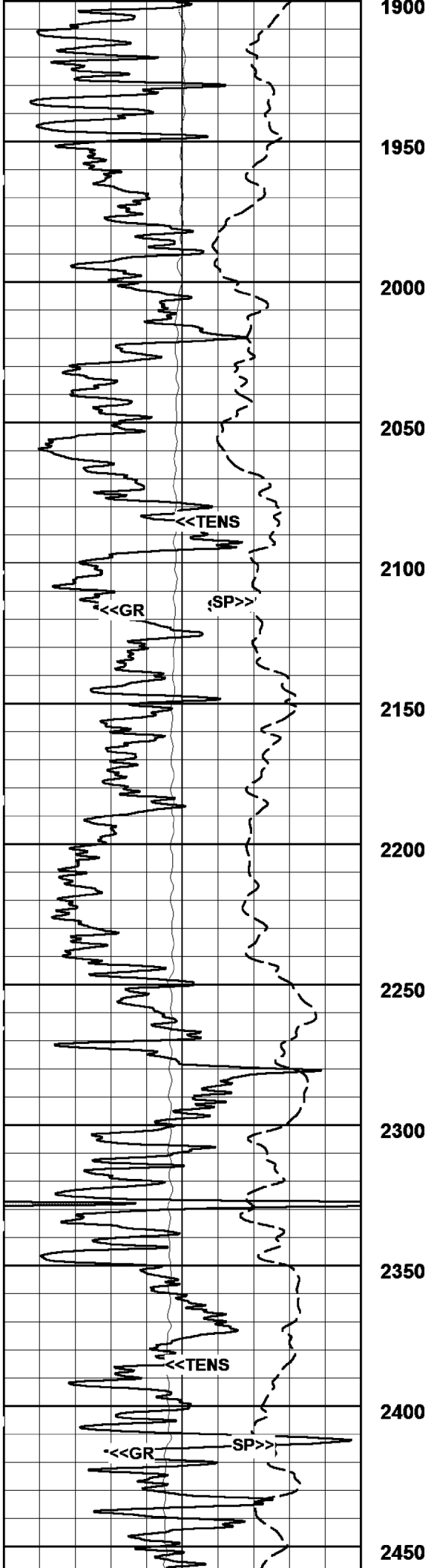
MAIN PASS (2"/100Ft)

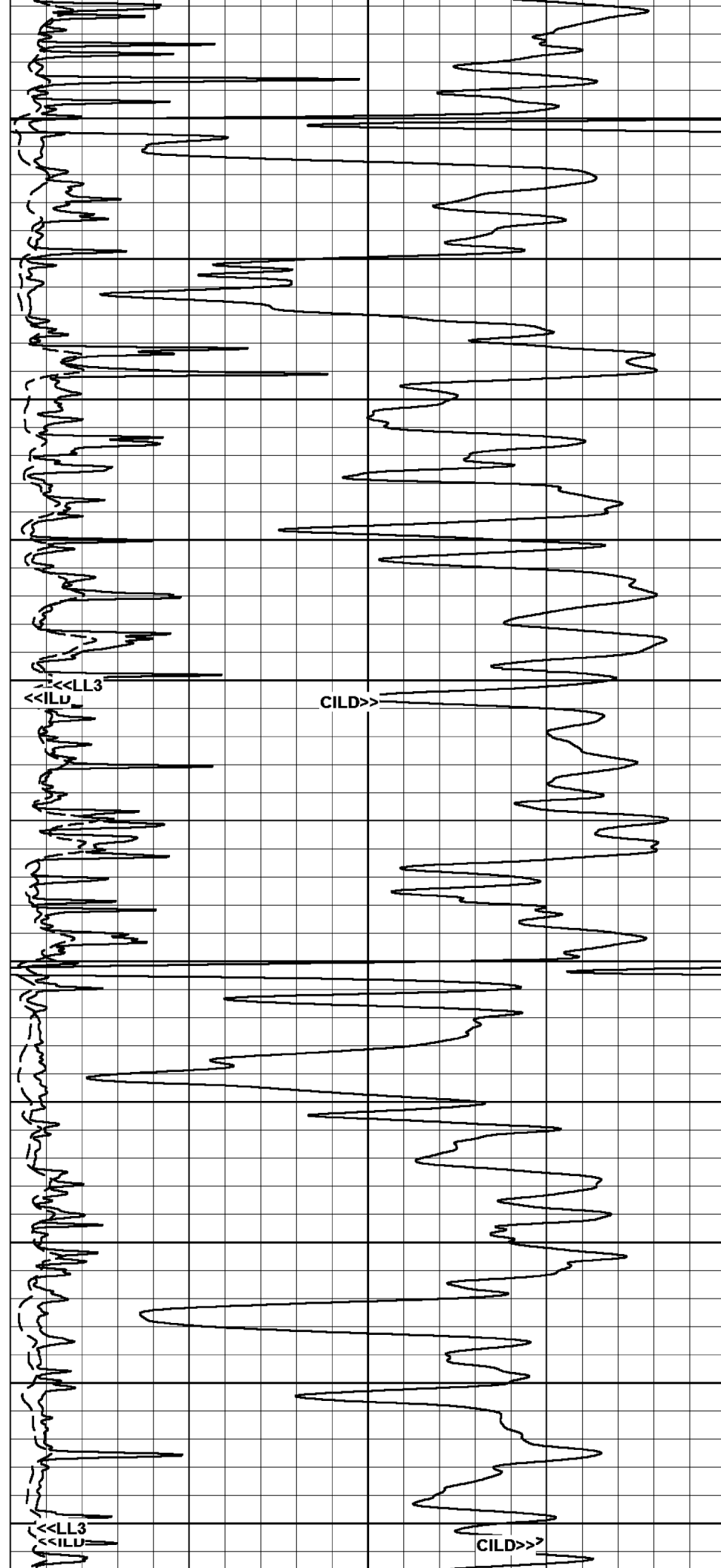
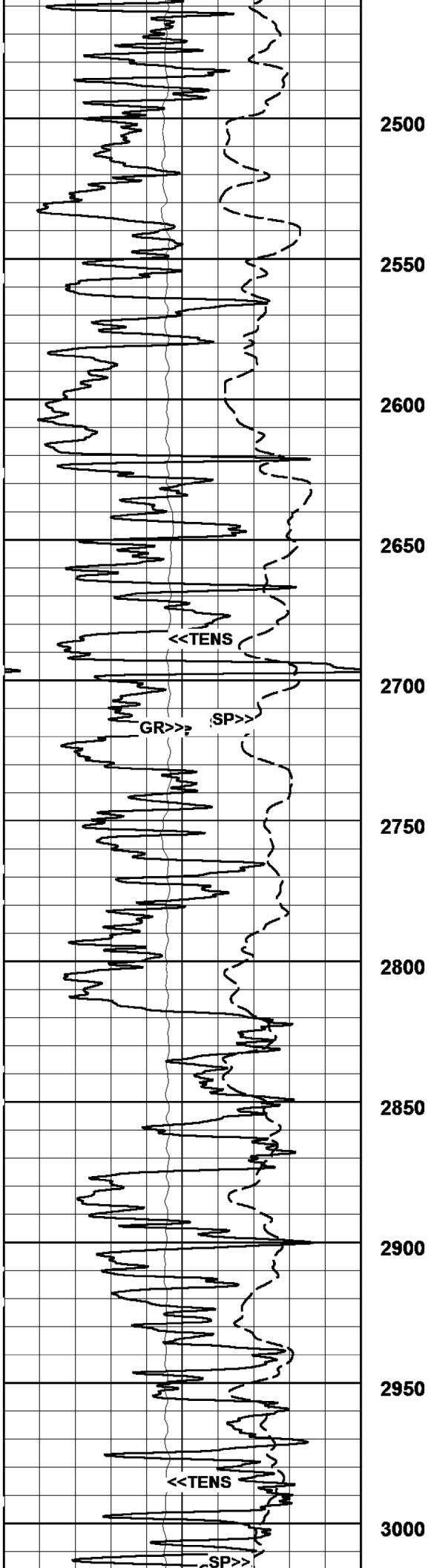
Log UP - (VER 11.14a)
End Depth=> 379.75 Feet

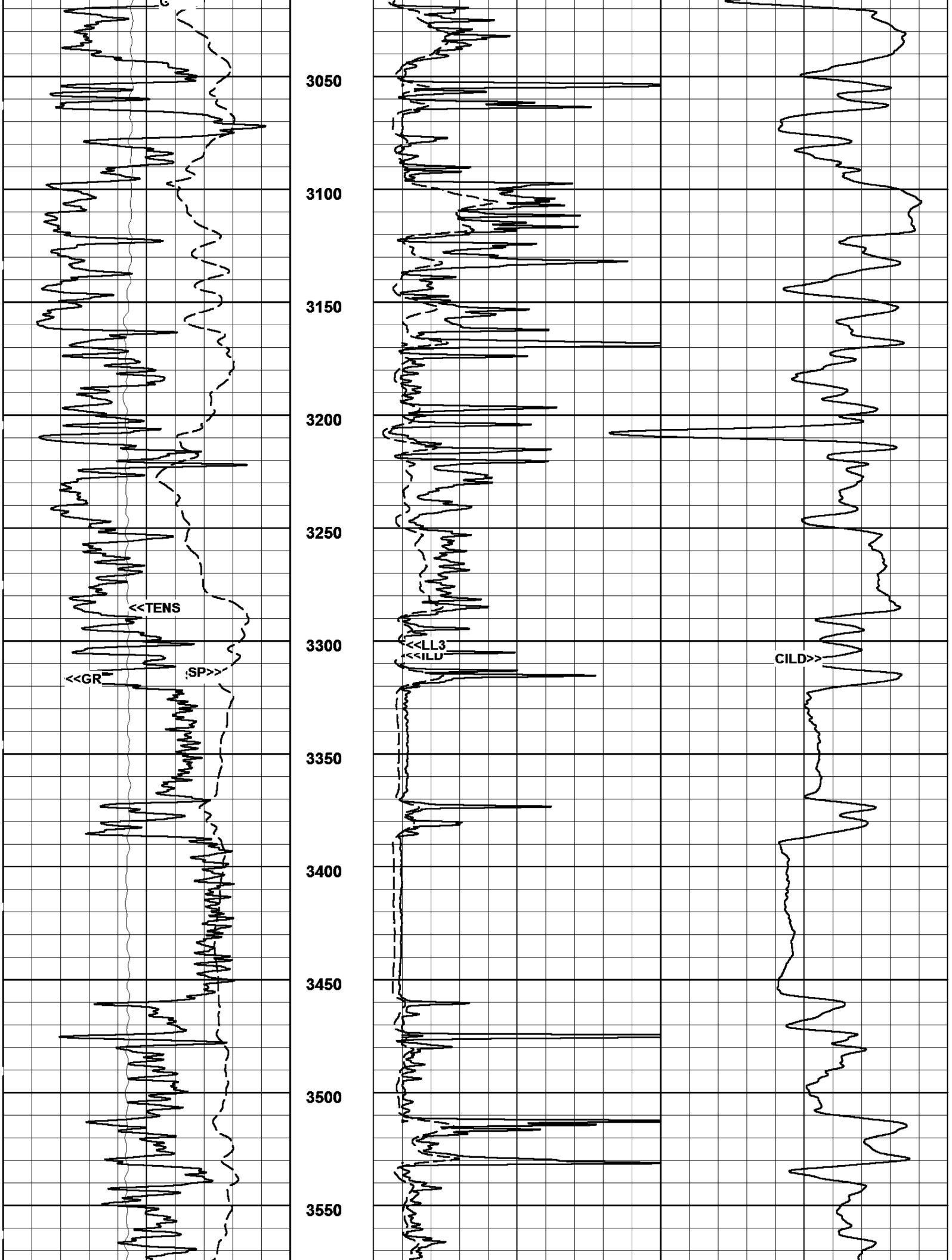


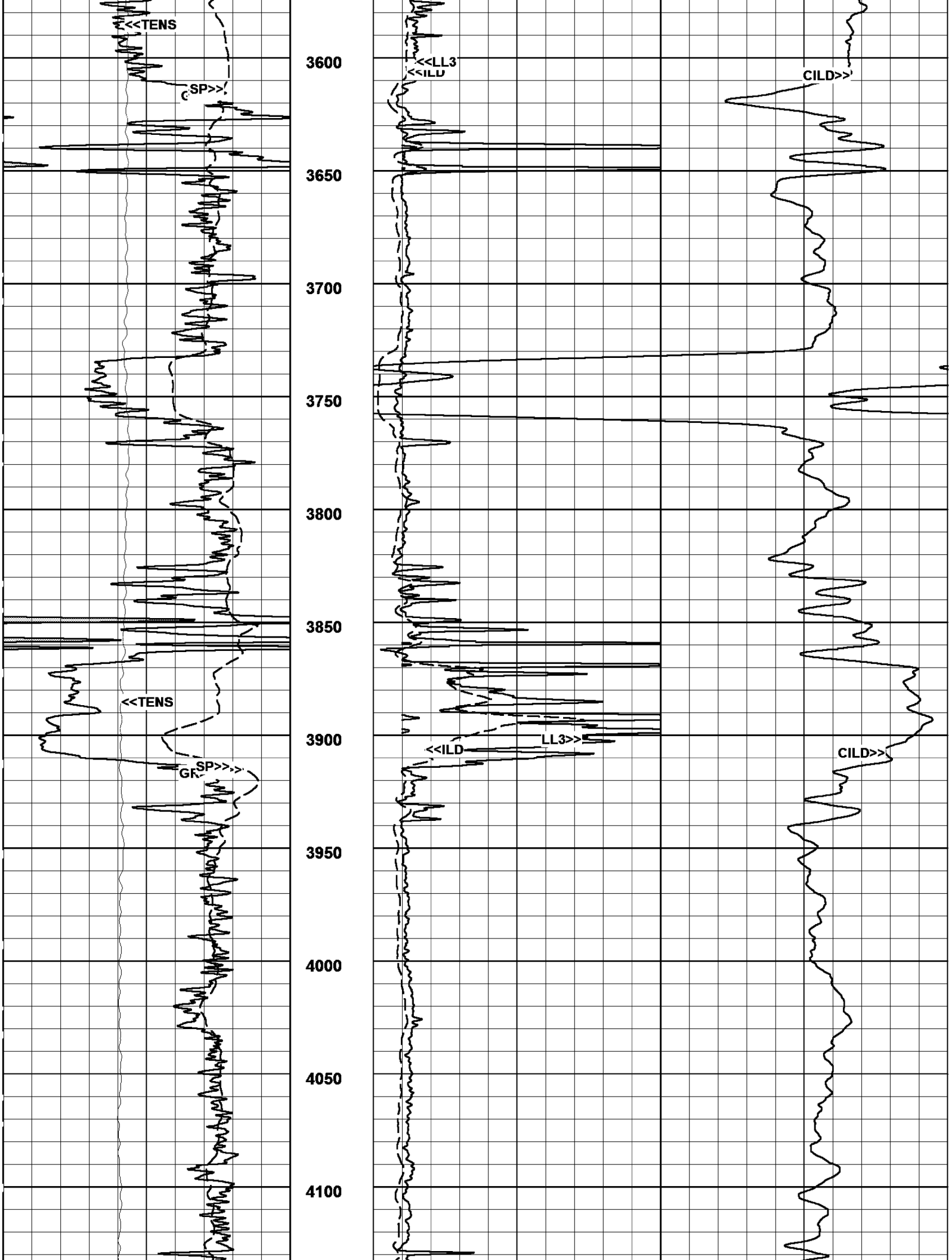


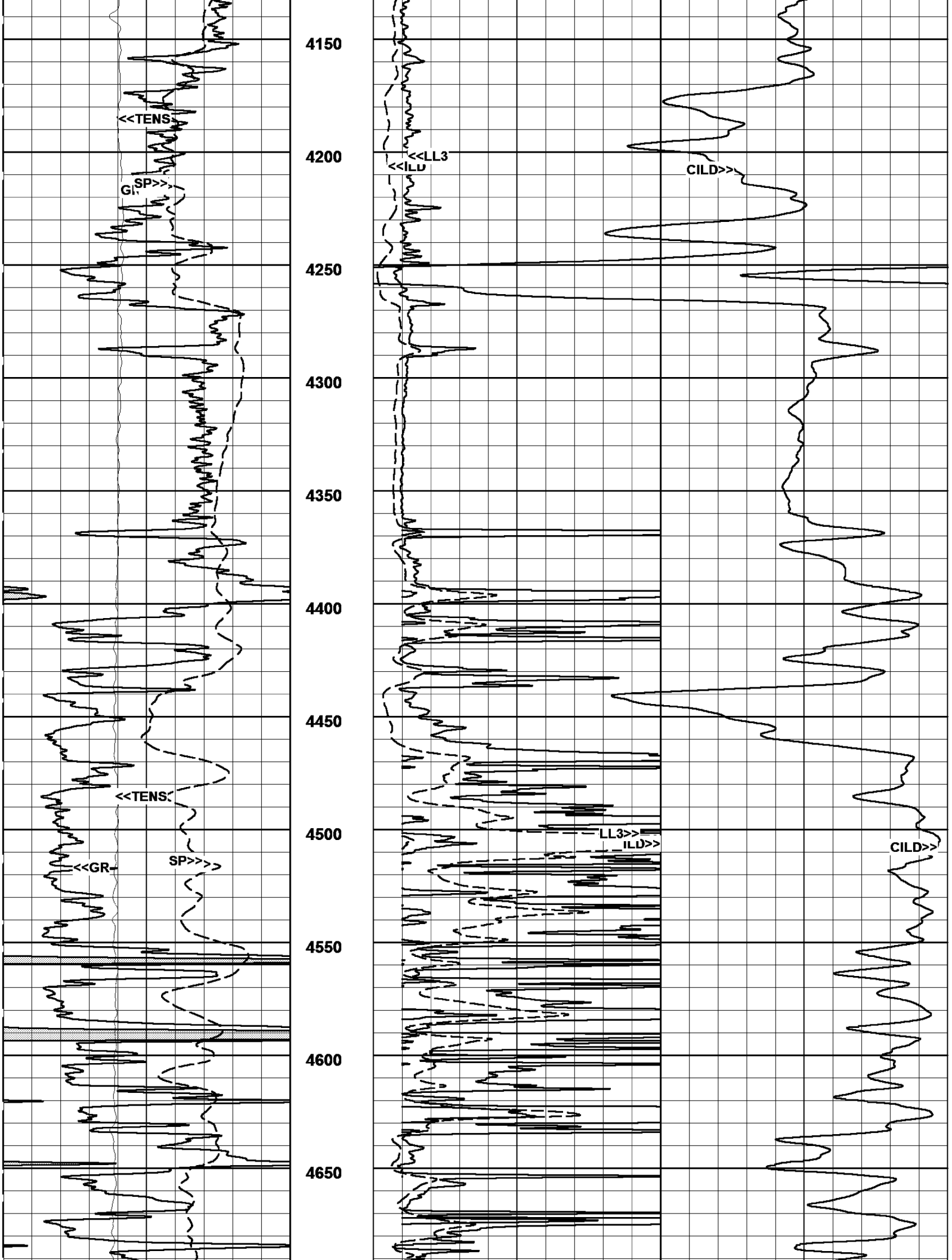


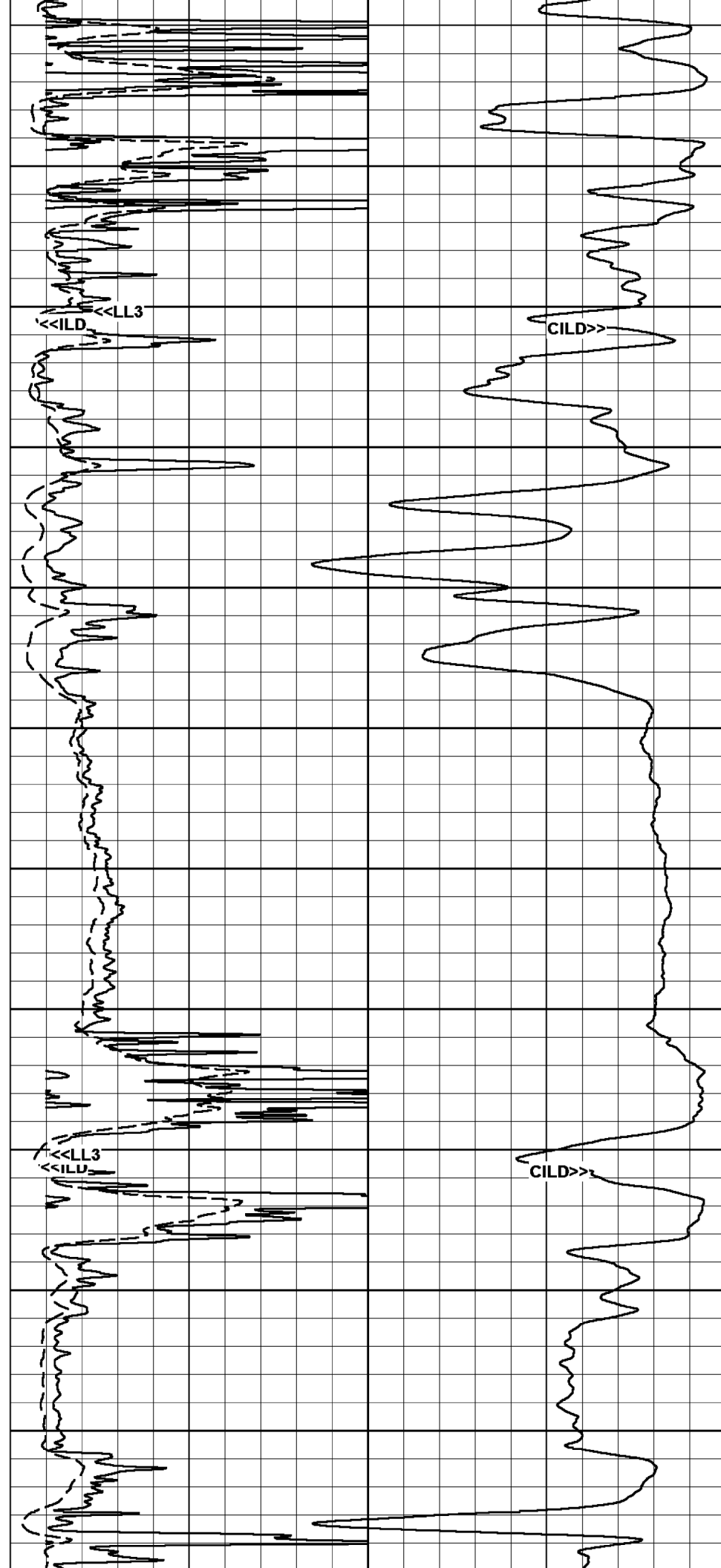
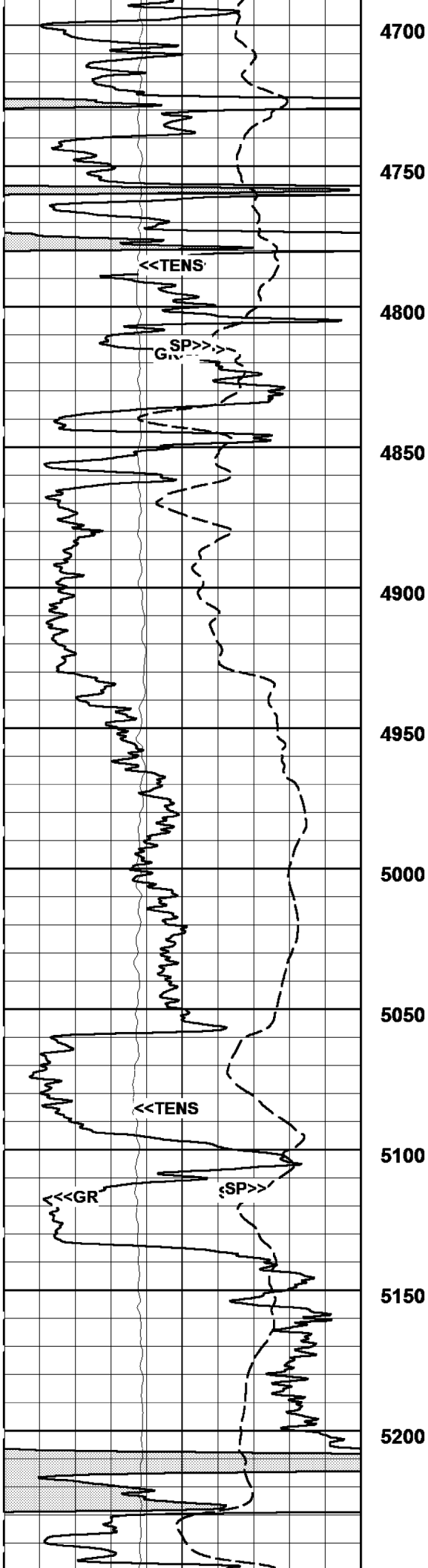


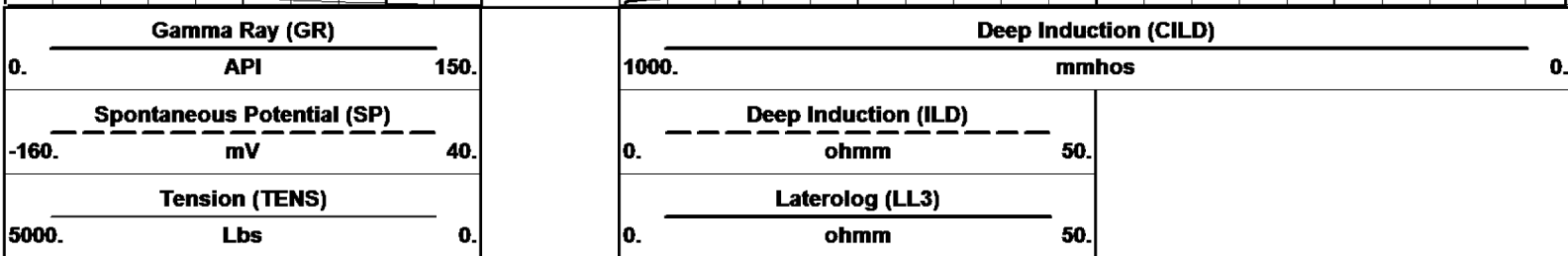
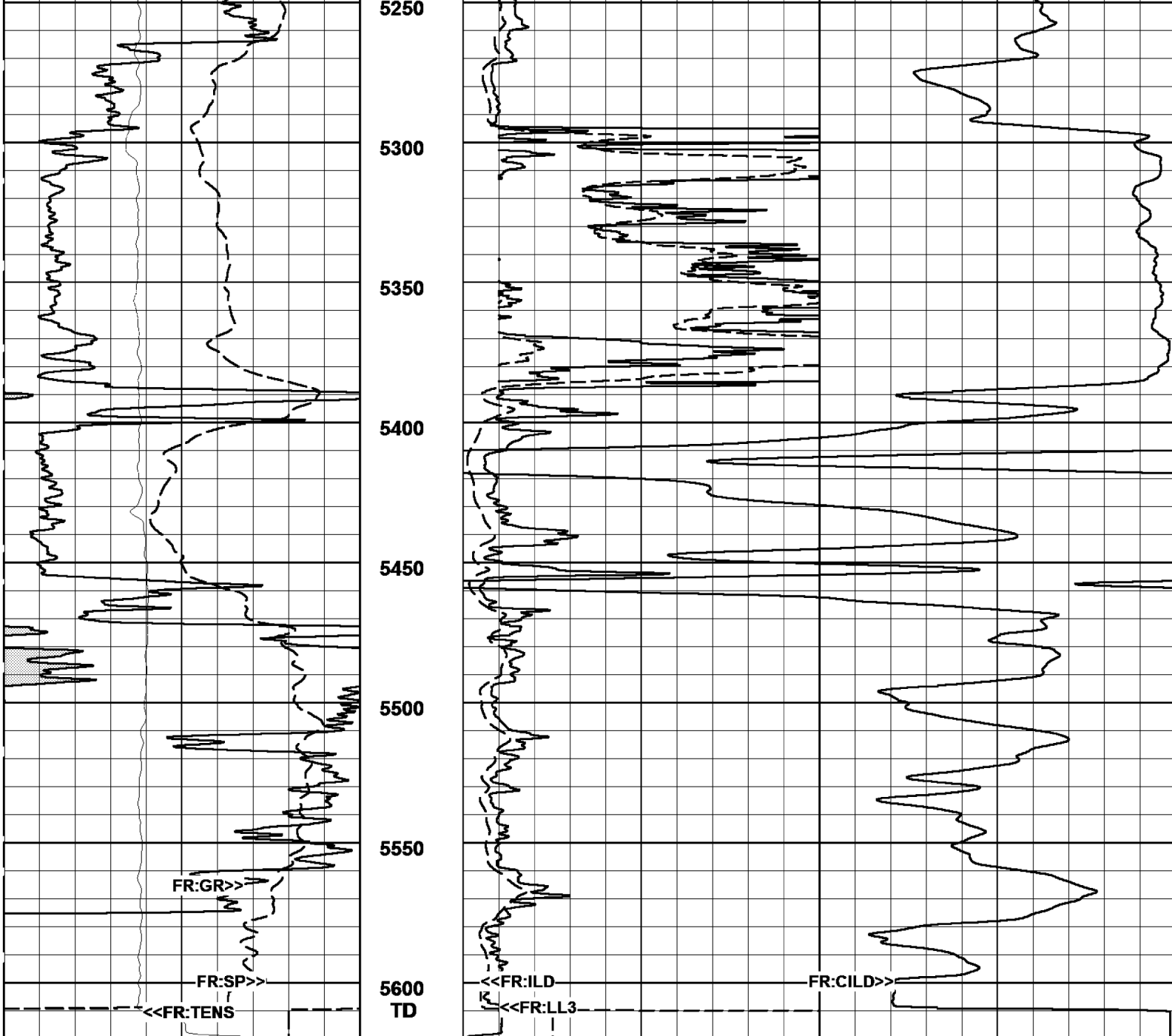






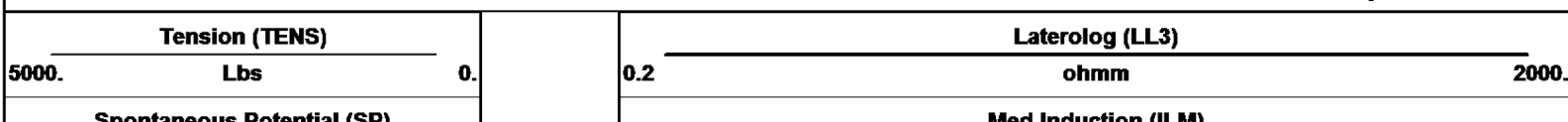


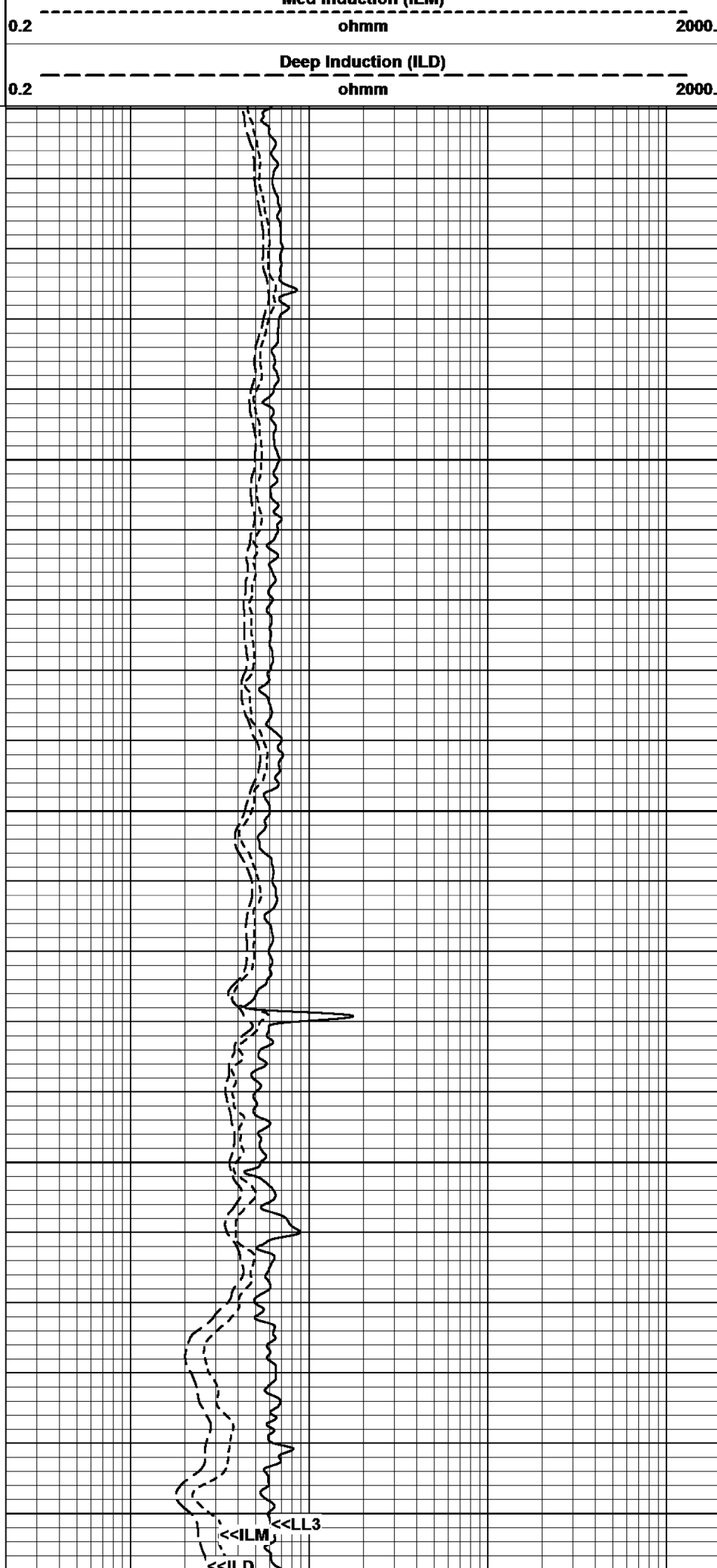
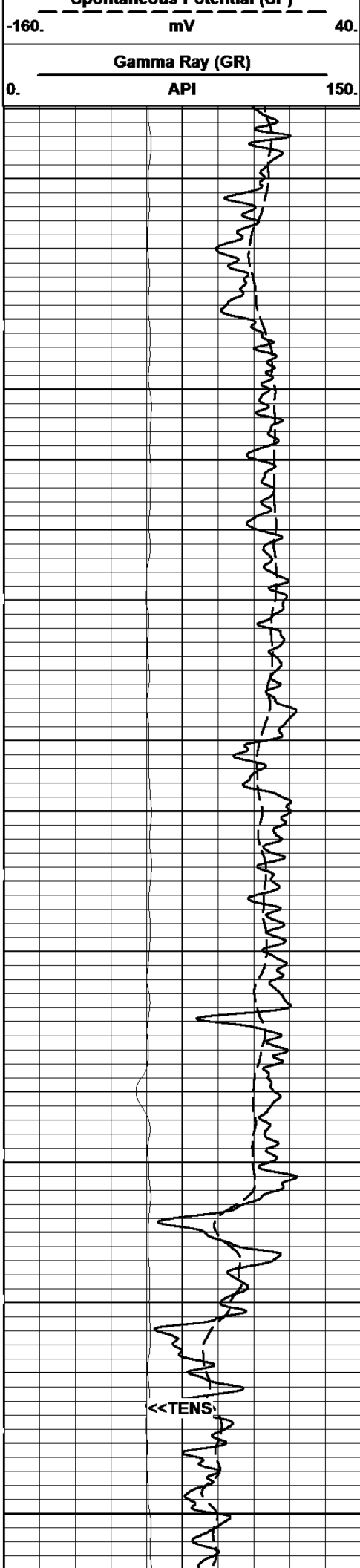


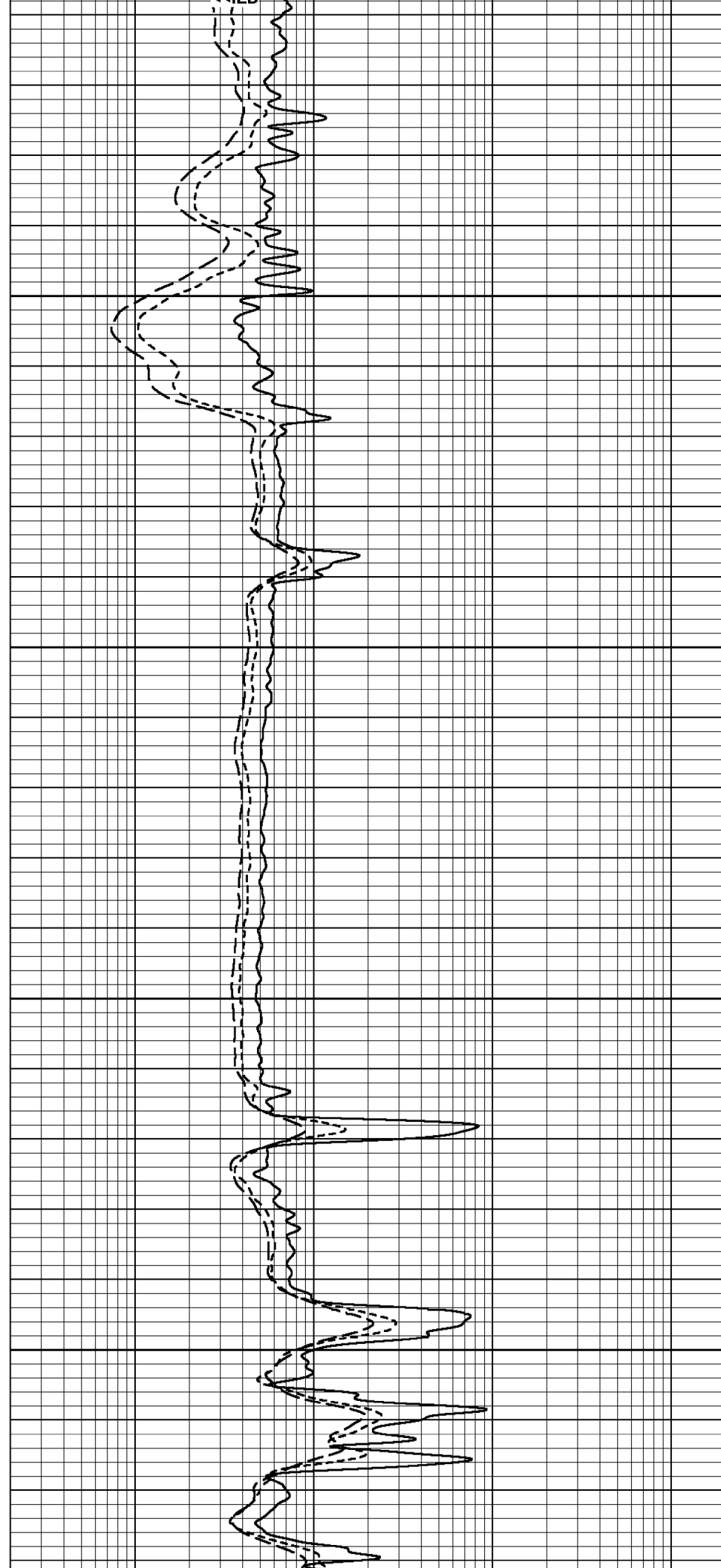
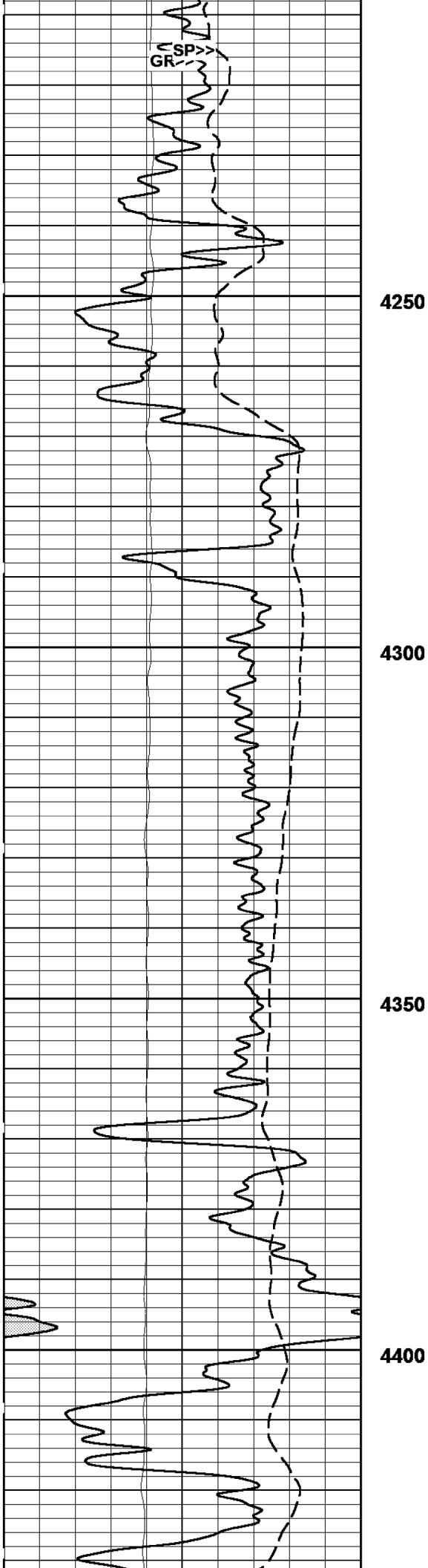


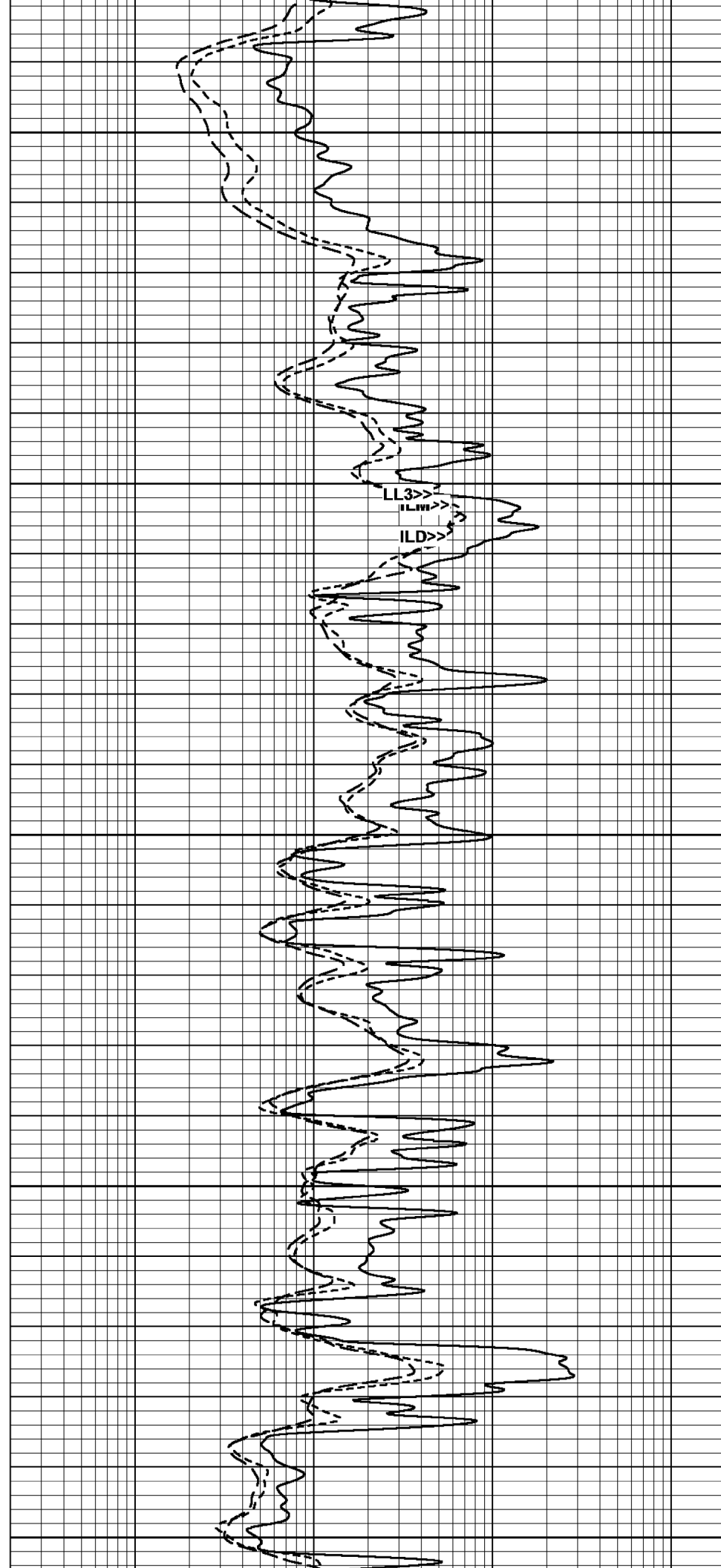
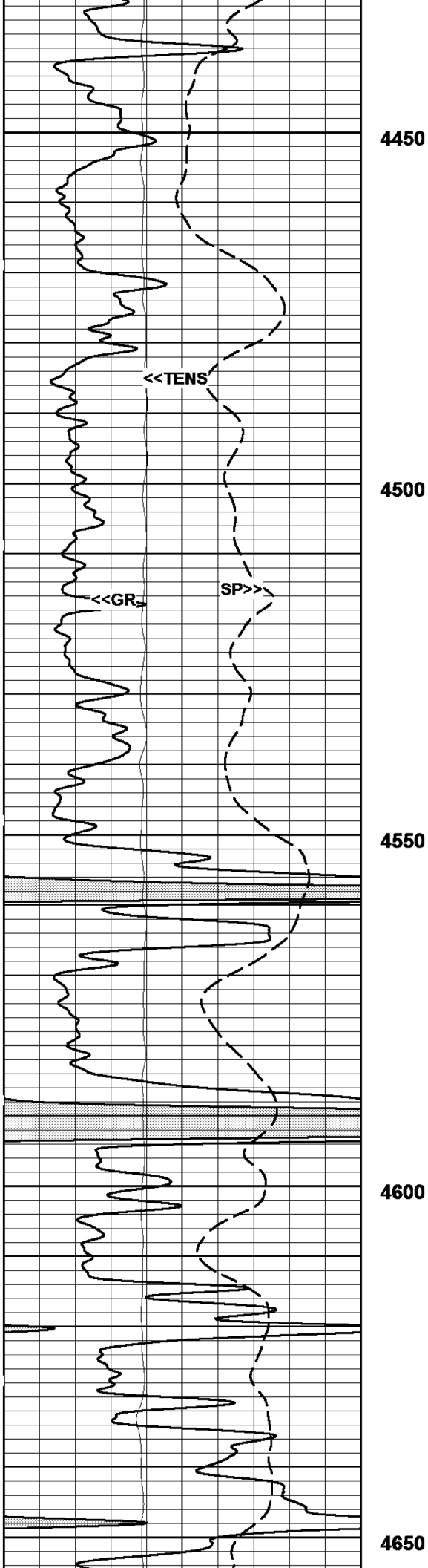
09/26/2013 22:28:39 => Start Time	MAIN PASS (2"/100ft)	Log UP - (VER 11.14a) Start Depth=> 5620.25 Feet
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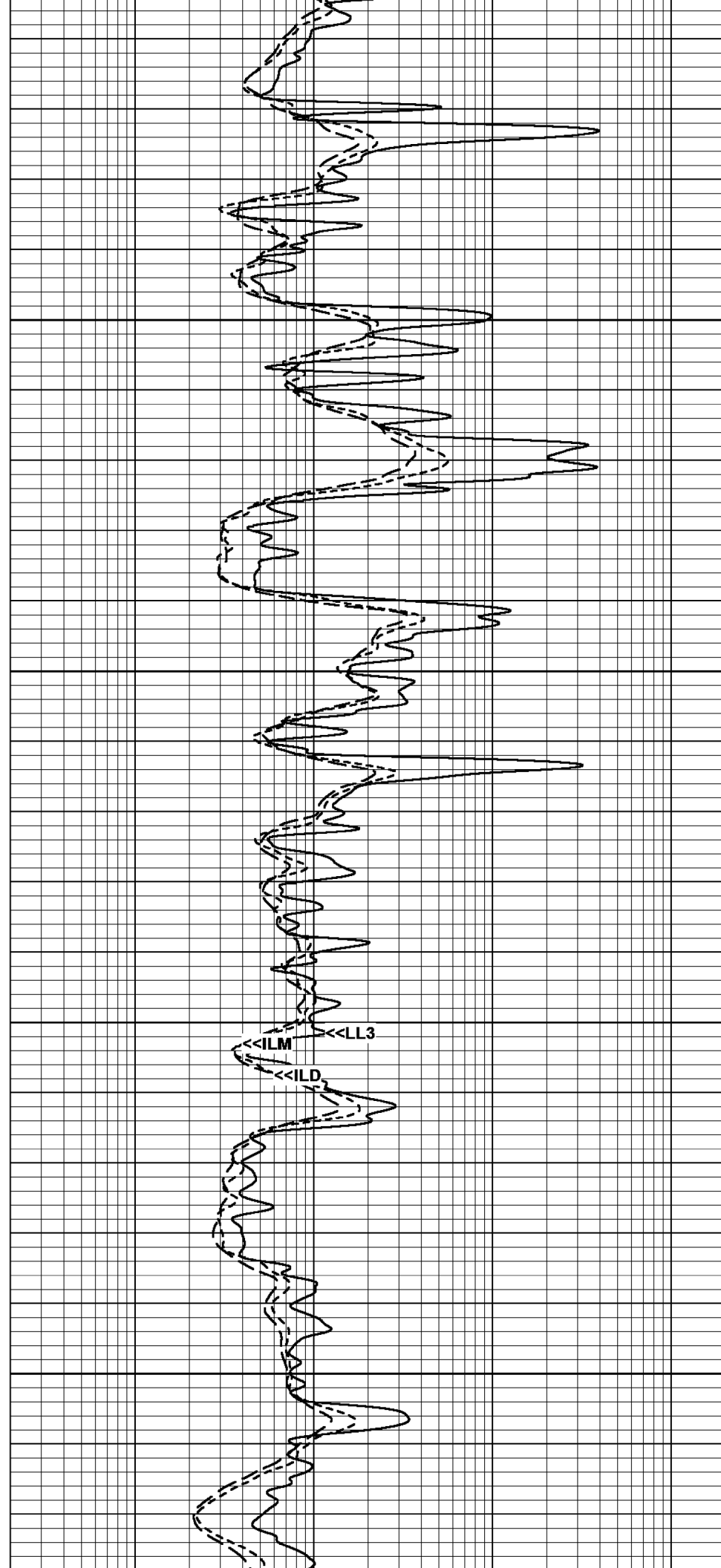
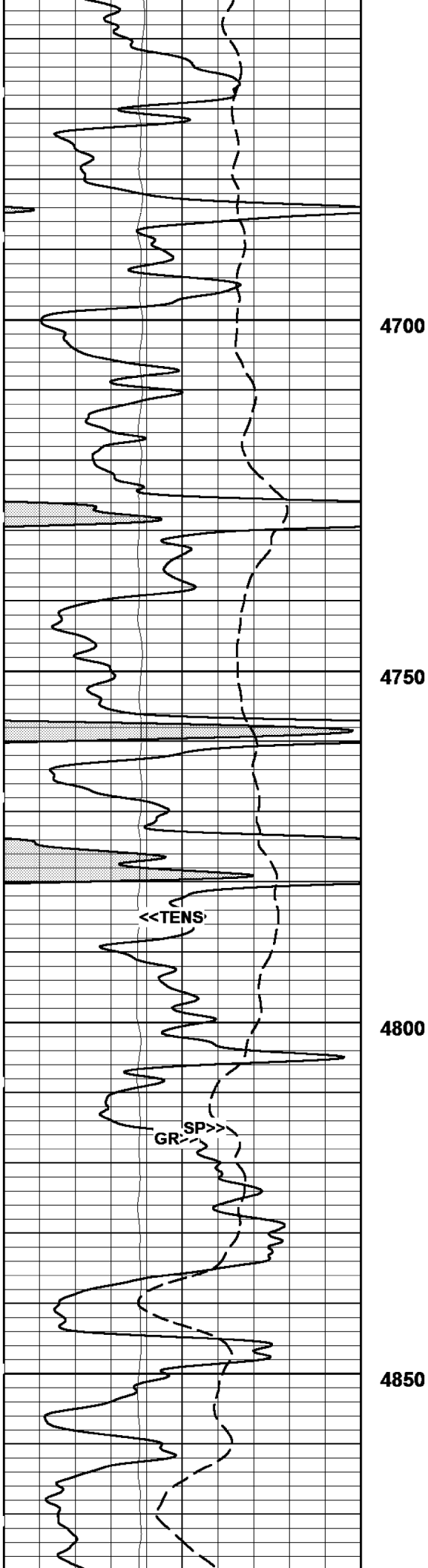
09/27/2013 00:05:15 => End Time	MAIN PASS (5"/100ft)	Log UP - (VER 11.14a) End Depth=> 3999.90 Feet
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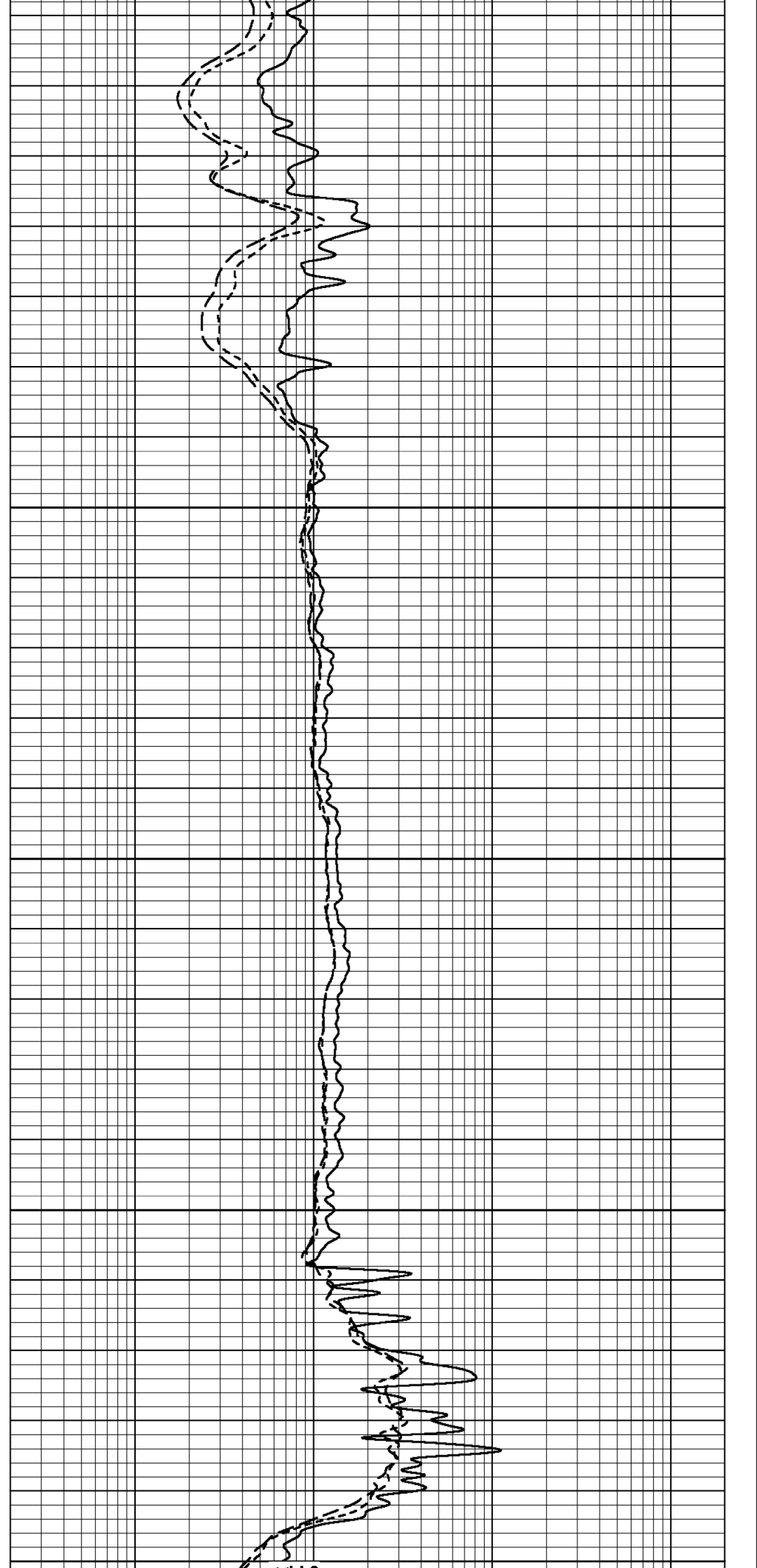
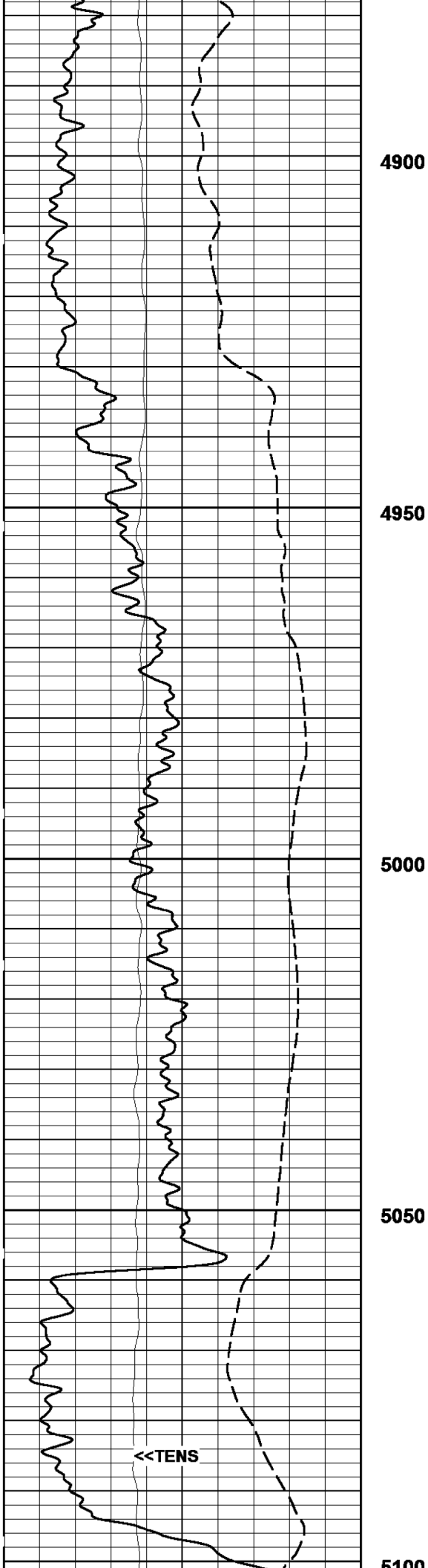


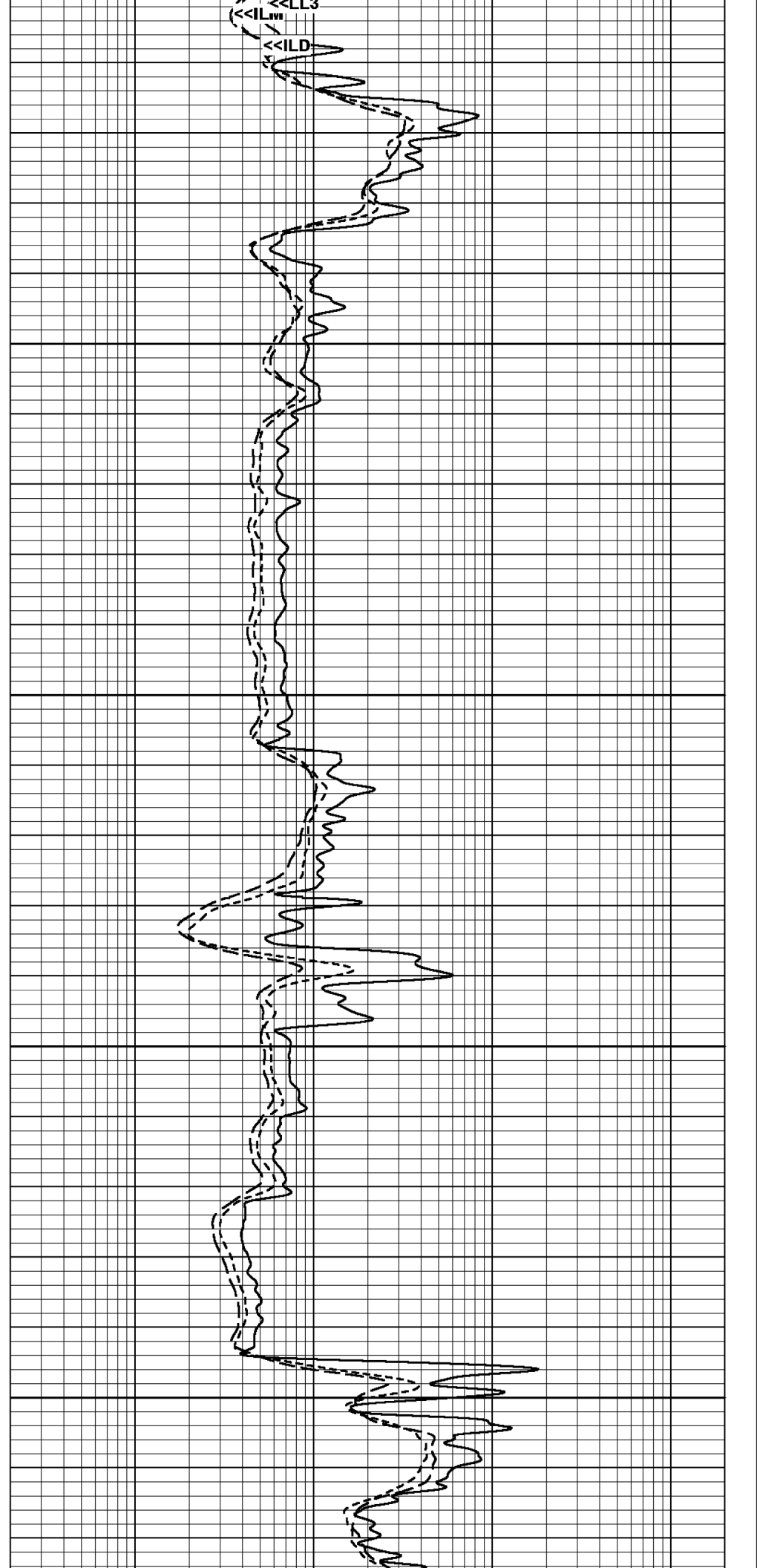
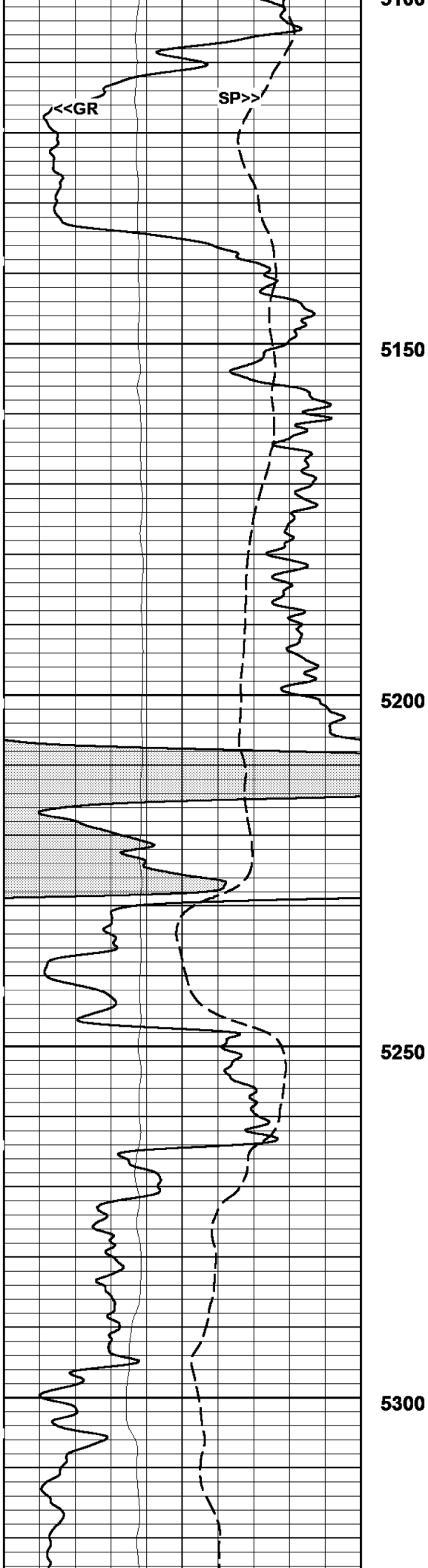


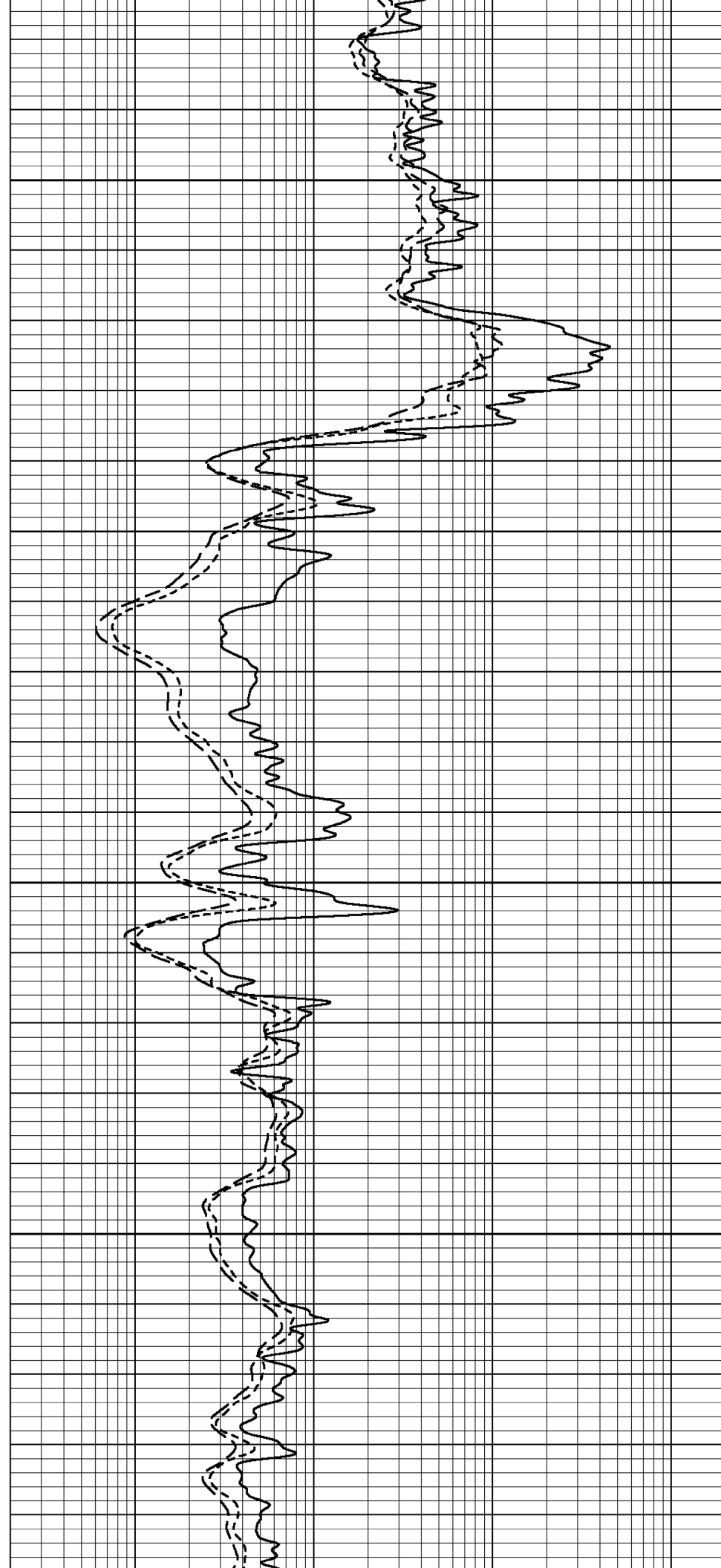
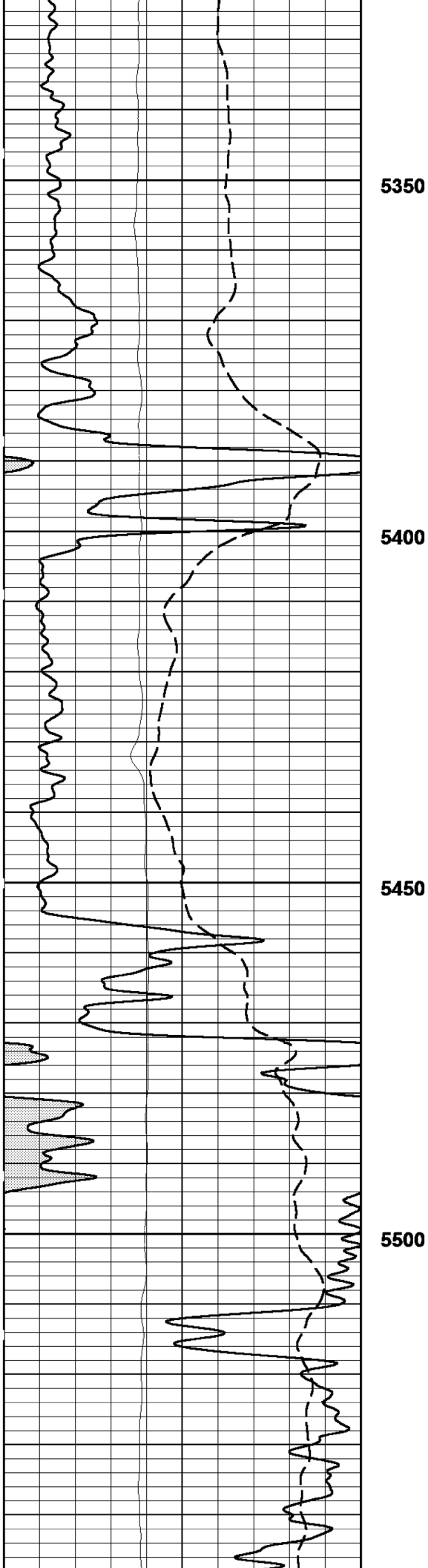


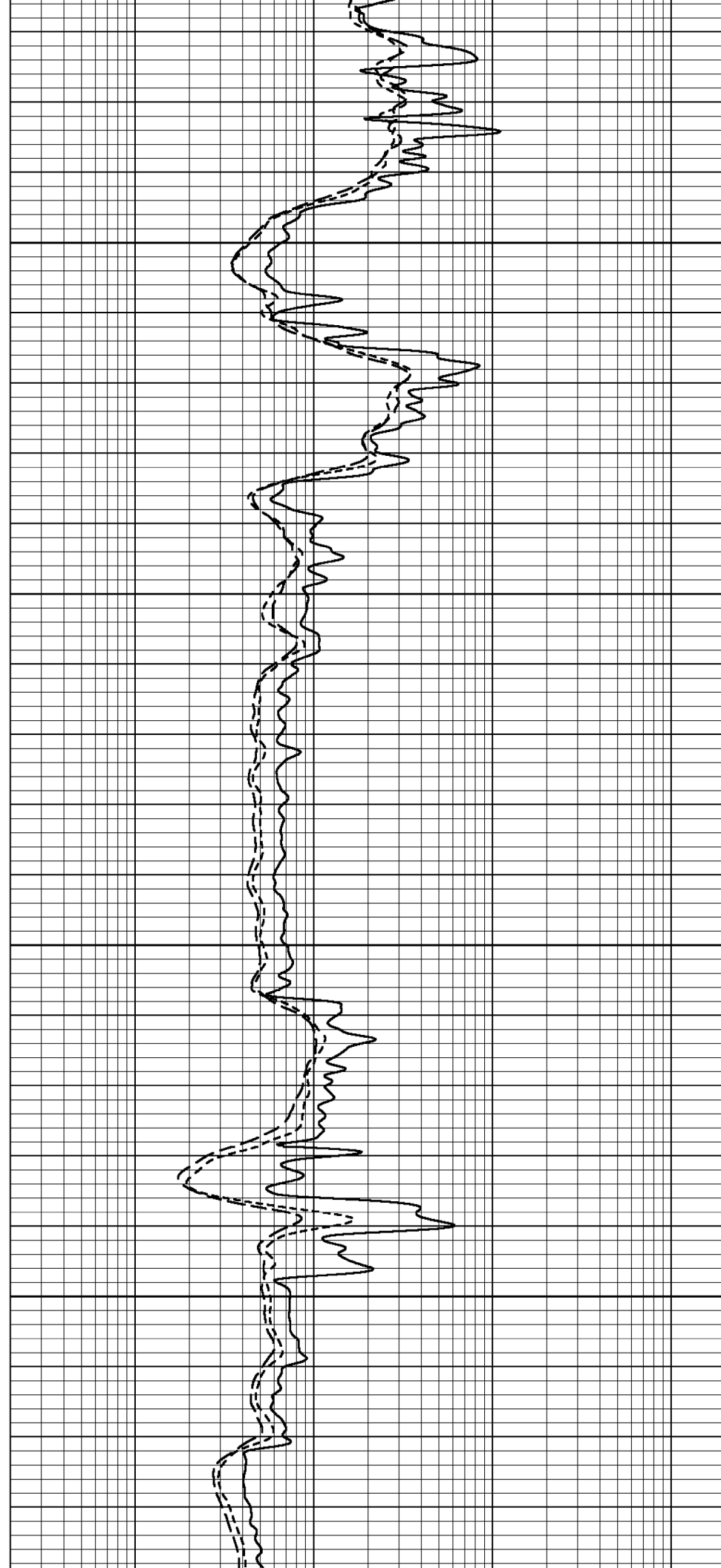
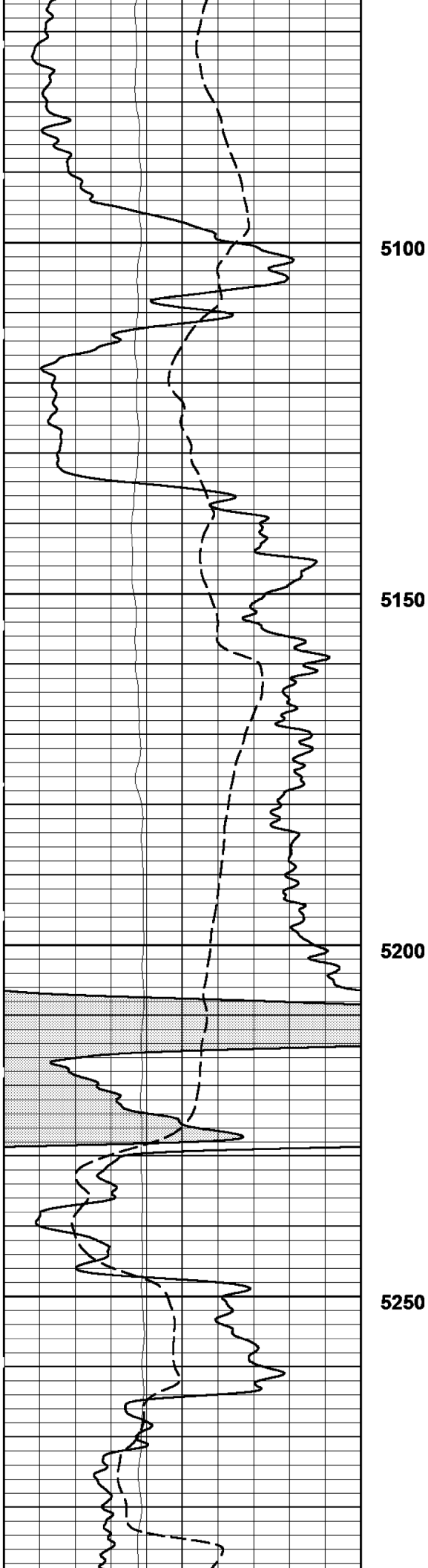


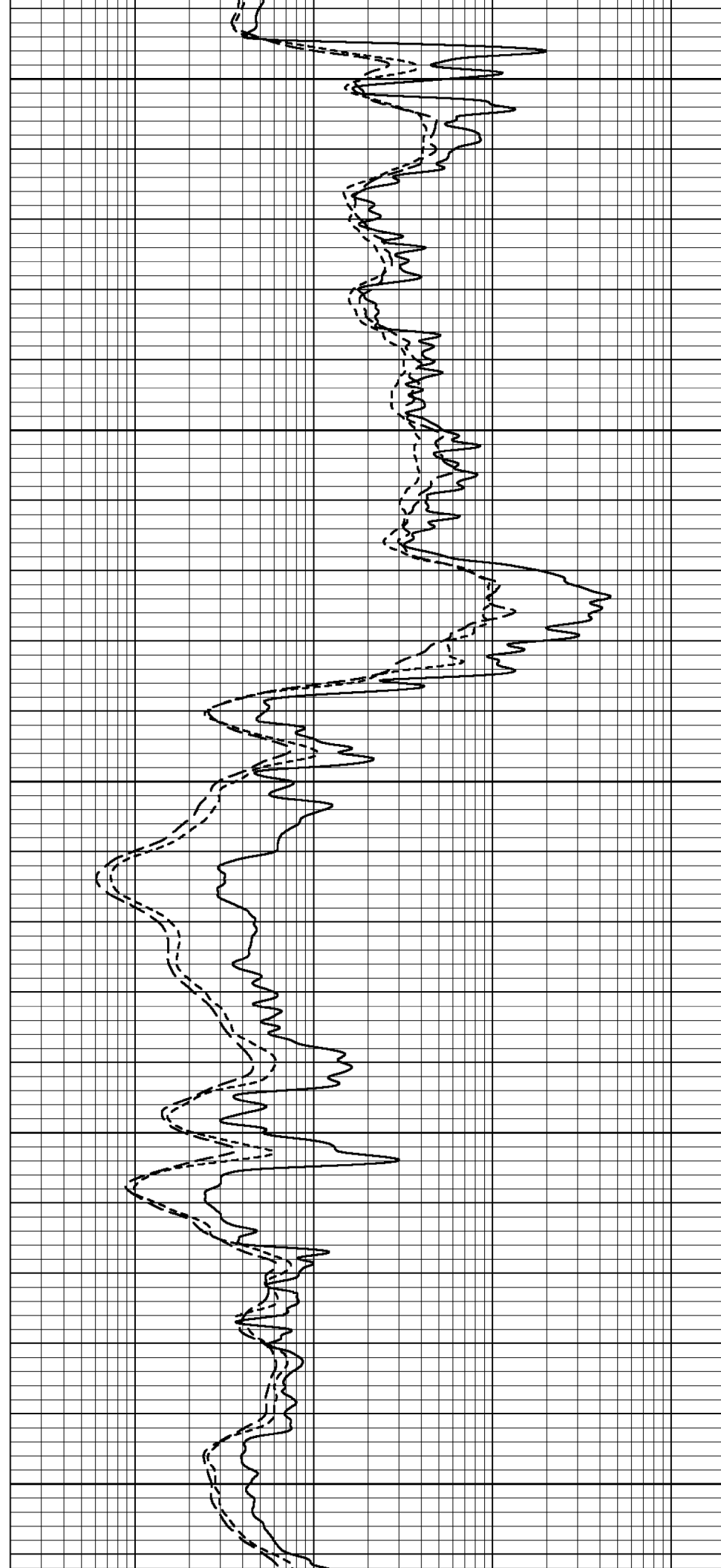
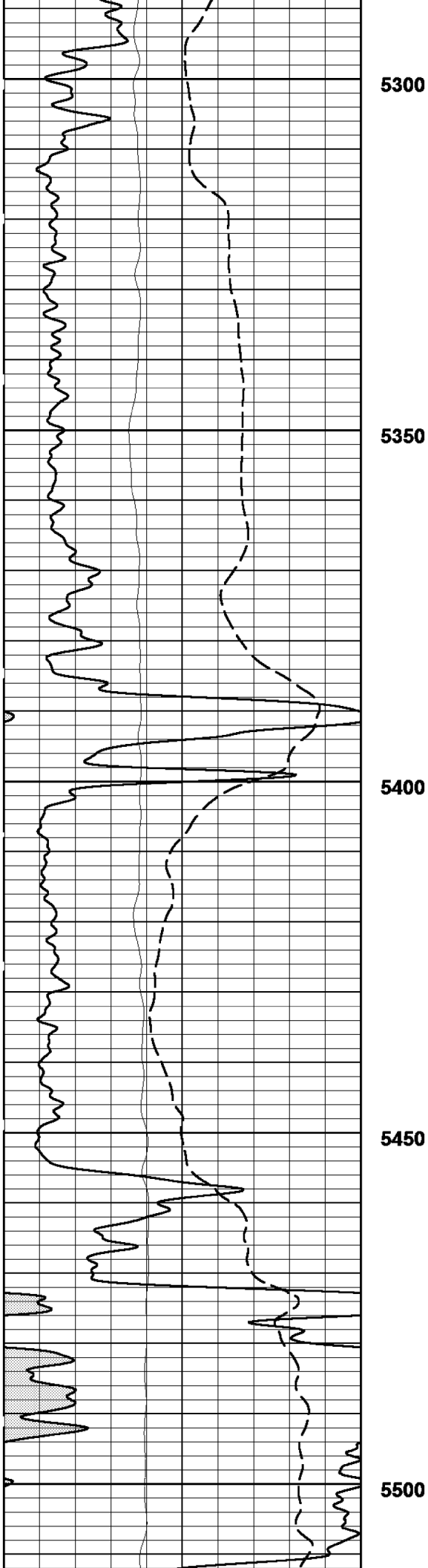


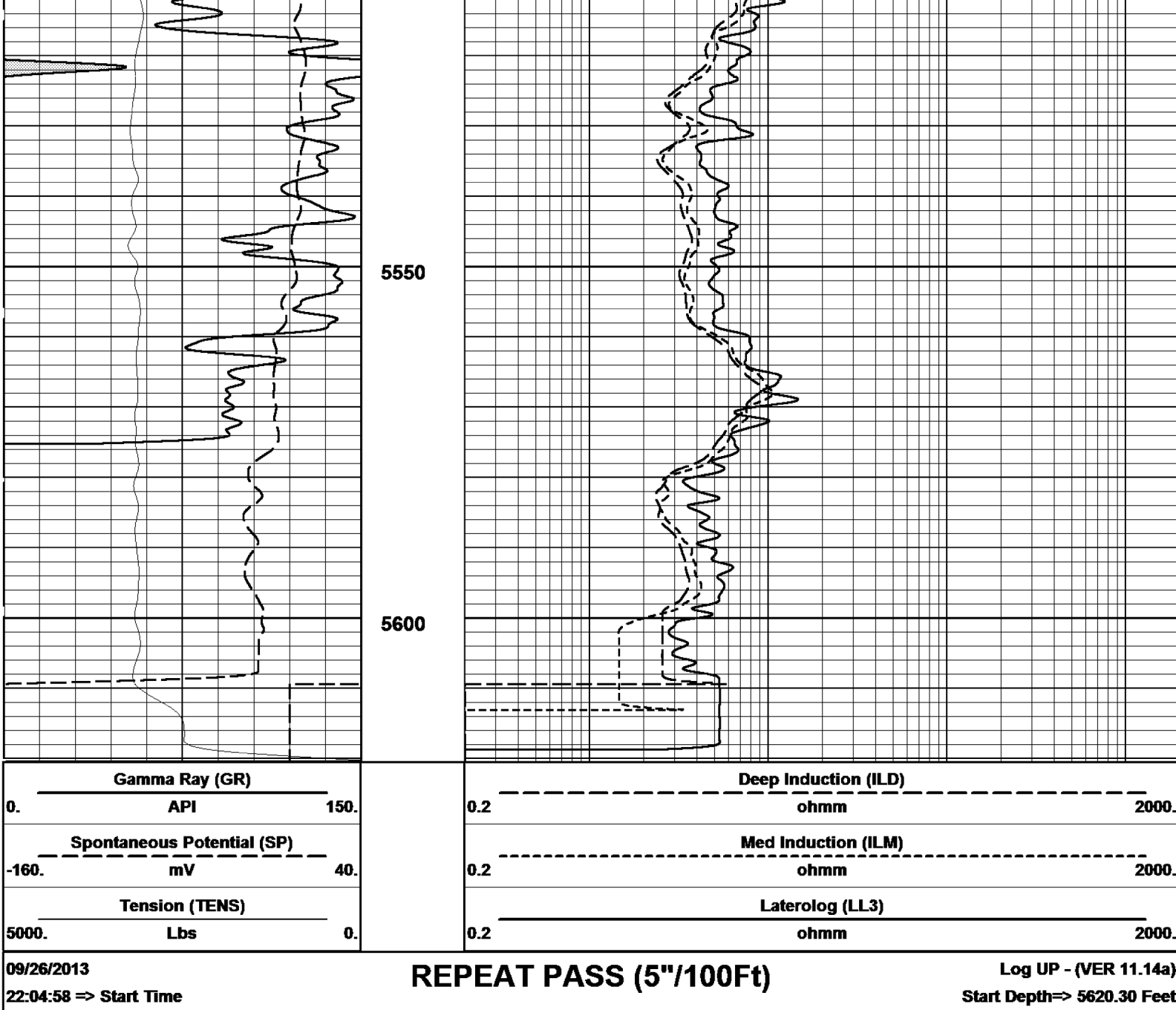












Induction Resistivity / Conductivity Calibrations

TOOL TYPE
SERIAL NUM

BA-Dual Induction/LL3
Type-SerNum

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		0.000	0.000	0.000	0.000	M/D/Y> 0/0/0	H:M:S> 0:0:0
MED INDUCTION	0.000		0.000	0.000	0.000	0.000	M/D/Y> 0/0/0	H:M:S> 0:0:0
SHALLOW LATERLOG	CALIBRATOR LOW(ohm)		CALIBRATOR HI(ohm)		LOW(mV)	HI(mV)		
	0.000		0.000		0.000	0.000	M/D/Y> 0/0/0	H:M:S> 0:0:0

WELL SITE CALIBRATIONS

ANY CAL - 1

SERIAL NUM
BLANKET NUM

Serial?
1A

MASTER CALIBRATIONS

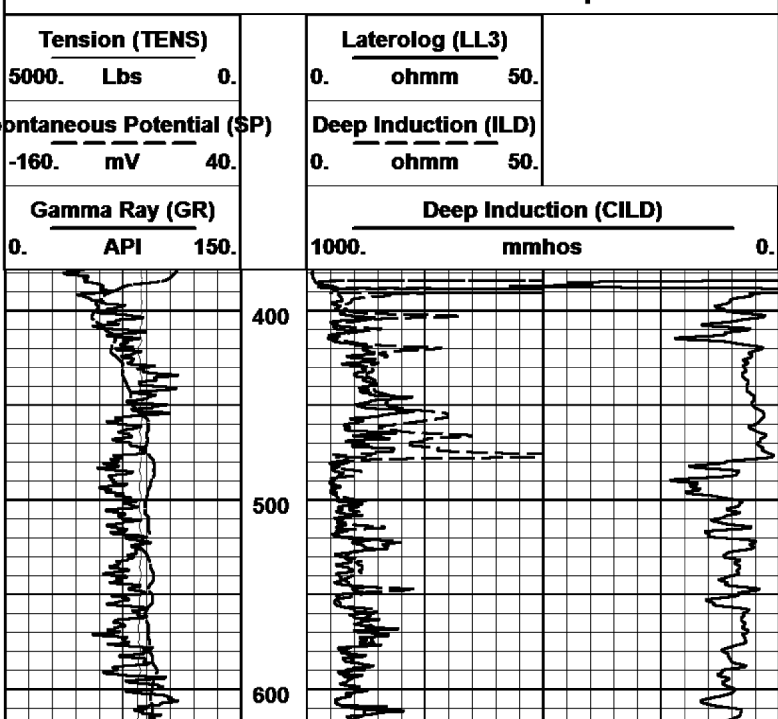
	BackGrnd	CalVal: 100.000 Mknuts	Gain/Offset	CALIBRATION DATE	CALIBRATION TIME
BASE CALS	-0.059 - raw	26.967 - raw	3.700 - gain -16.000 - off	M/D/Y> 11/12/2004	H:M:S> 12:40:27

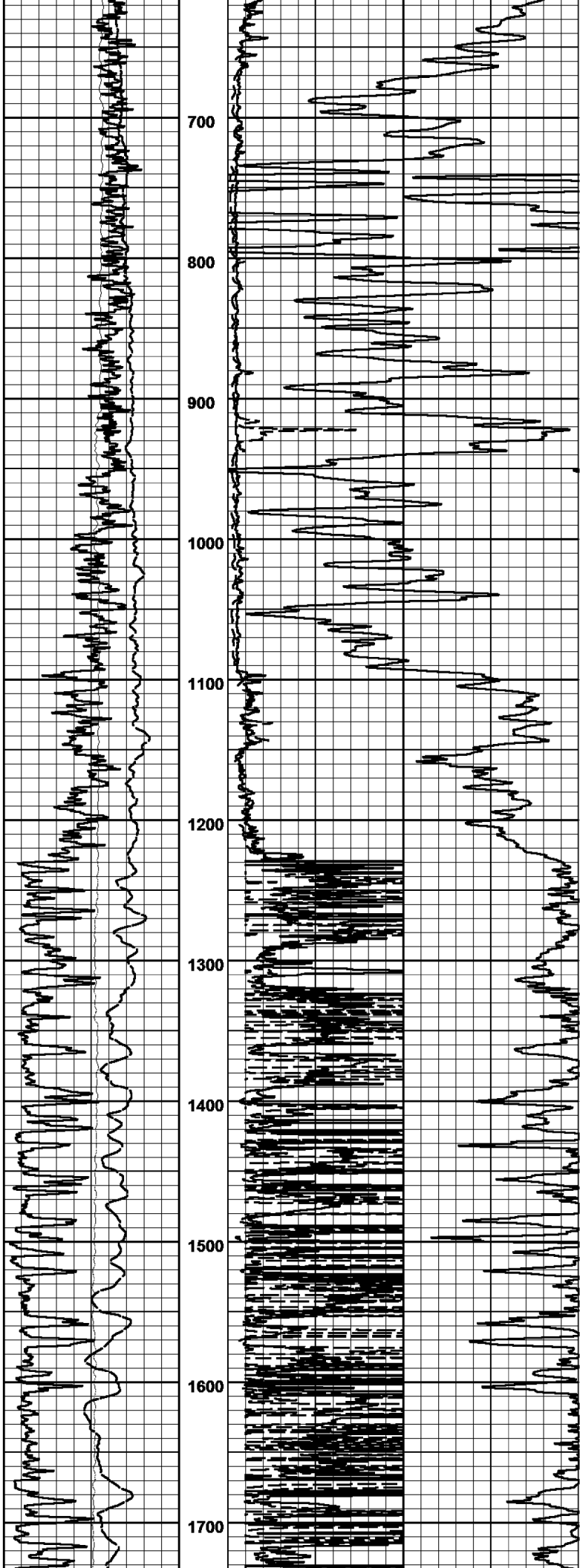
Company	VAUGHN GOOD OIL COMPANY
Well	NUSSER #4-16
Field	S.E. HARDTNER
County	BARBER
State	KANSAS

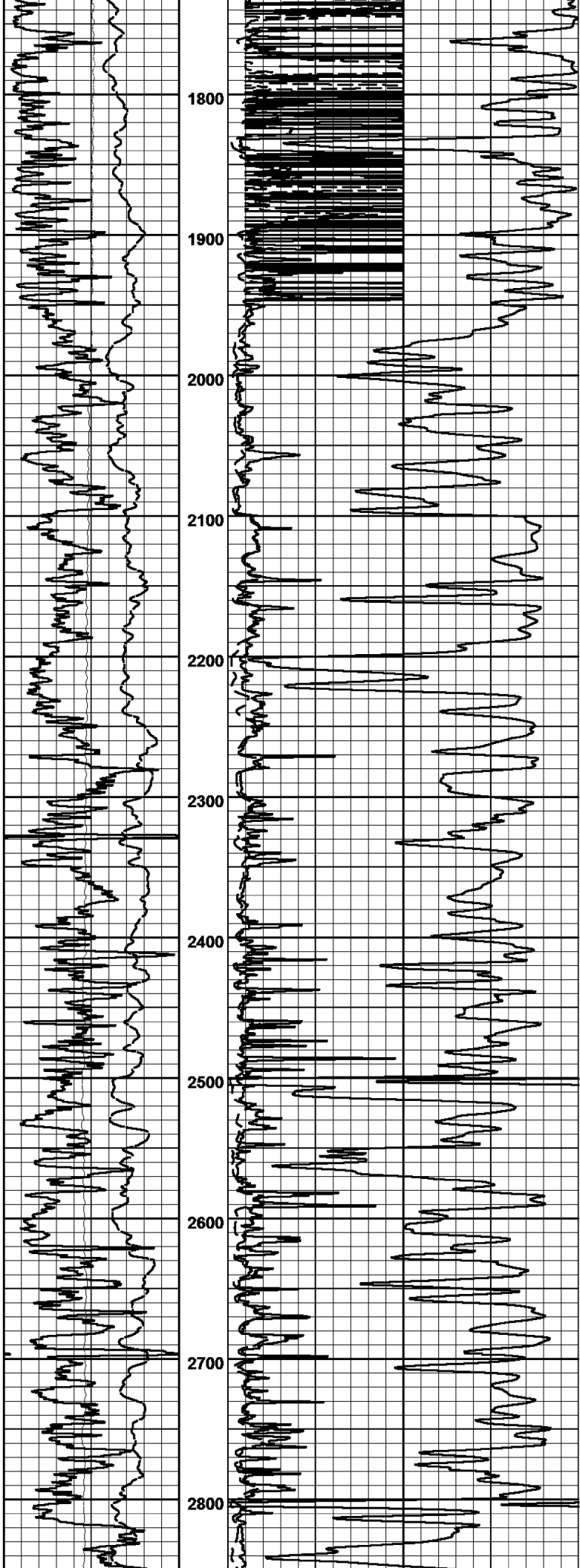
RECON

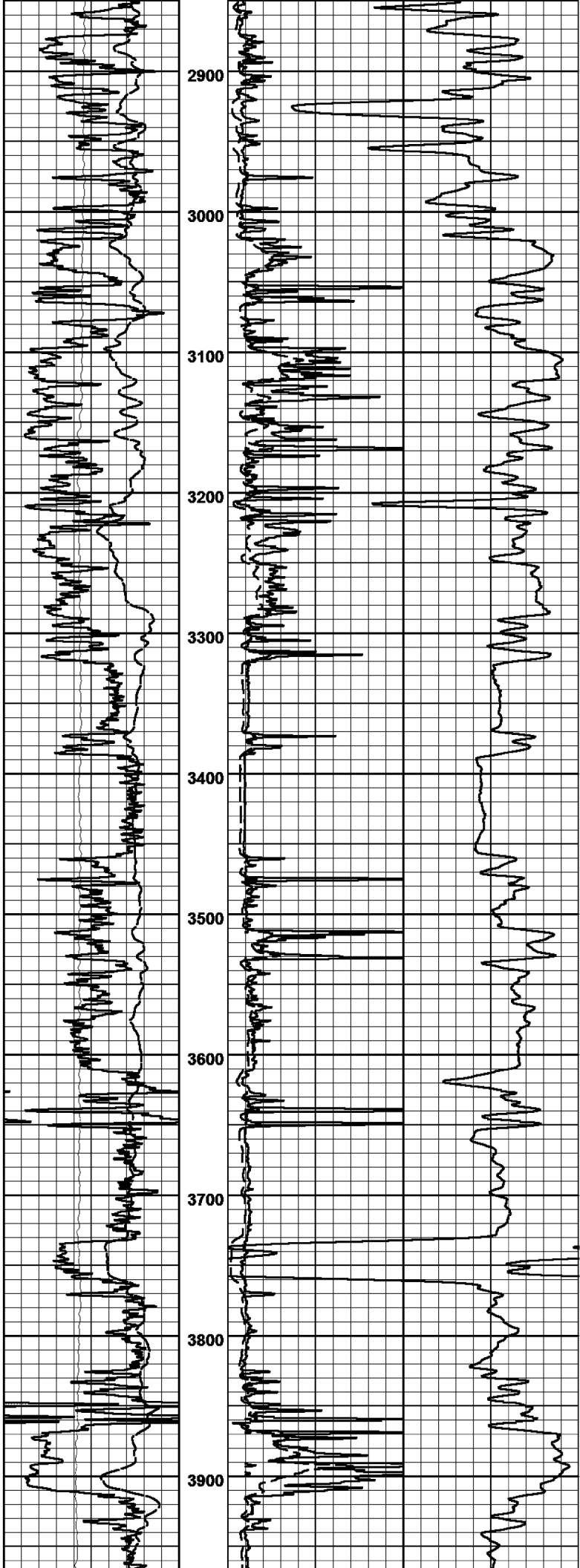
DUAL INDUCTION
LATEROLOG - SP
GAMMA RAY

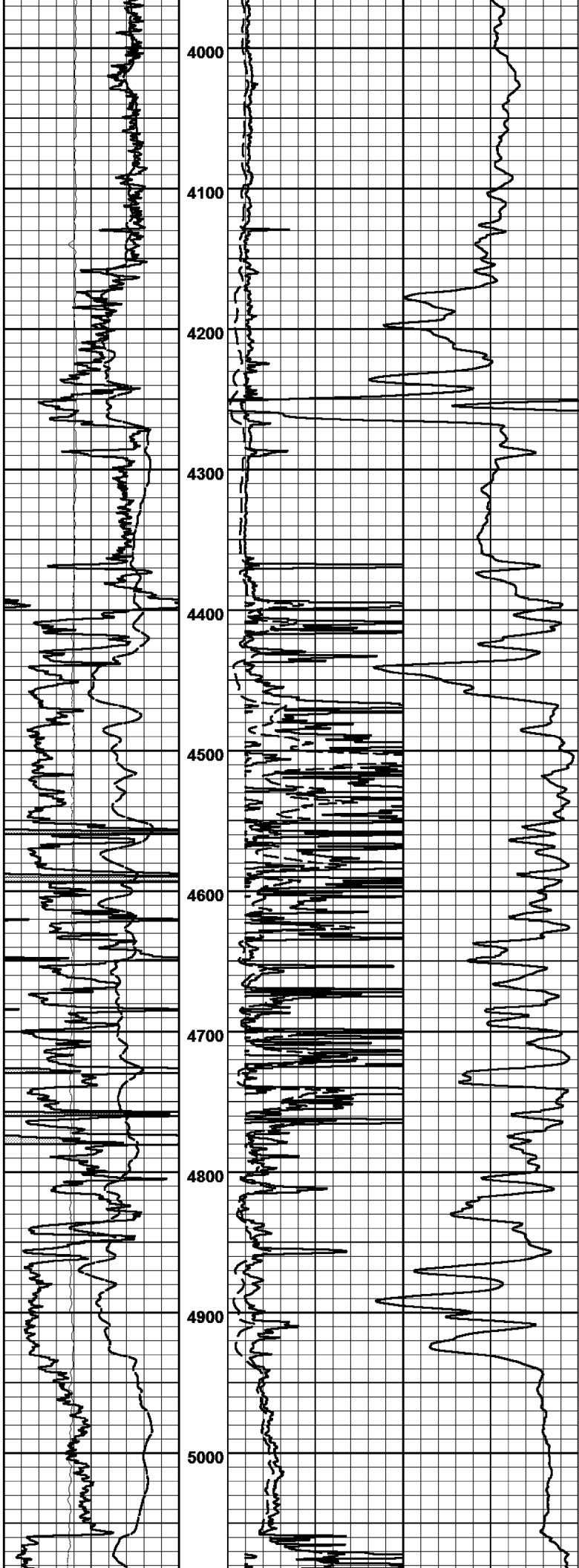
09/27/2013 MAIN PASS (1"/100FT)Log UP - (VER 11.14a)
00:05:15 => End Time End Depth=> 379.50 Feet

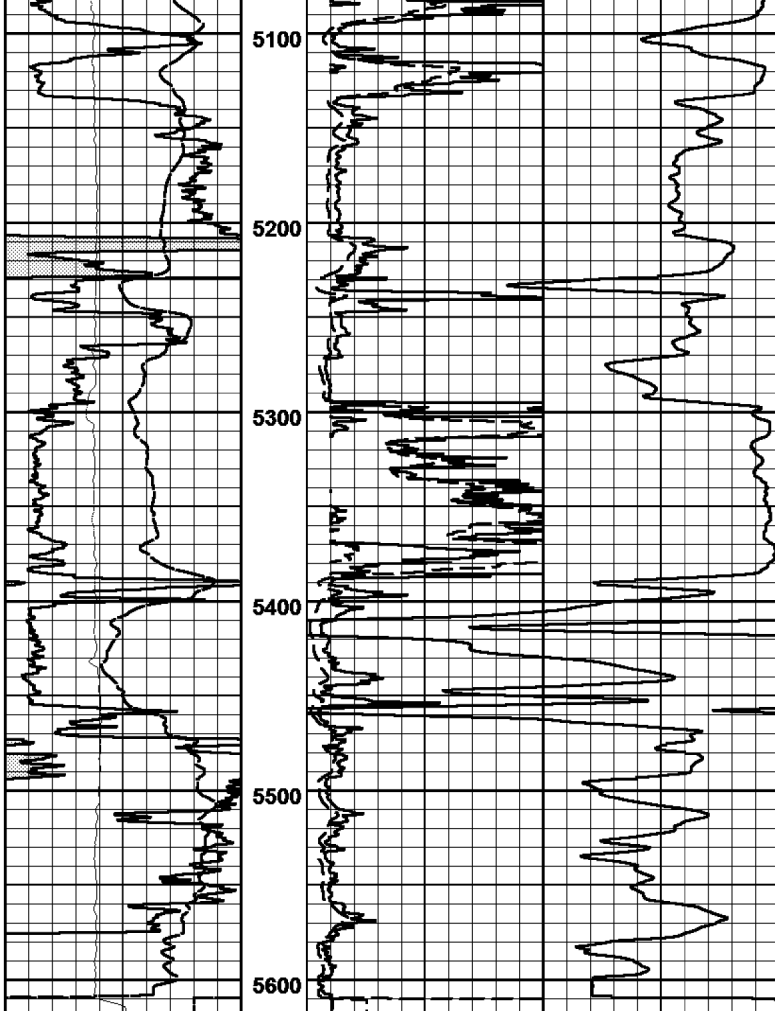












Gamma Ray (GR)		Deep Induction (CILD)	
0.	API 150.	1000.	mmhos 0.
Spontaneous Potential (SP)		Deep Induction (ILD)	
-160.	mV 40.	0. ohmm 50.	
Tension (TENS)		Laterolog (LL3)	
5000.	Lbs 0.	0. ohmm 50.	

09/26/2013 MAIN PASS (1"/100FT) Log UP - (VER 11.14a)
 22:28:39 => Start Time Start Depth=> 5620.00 Feet



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