

**DUAL INDUCTION
LATEROLOG - SP
GAMMA RAY**

Date	29-JAN-2015			
Run No.	ONE			
TD Driller	4832	ft		ft
TD RECON	4834	ft		ft
Bot Logged Interval	4833	ft		ft
Top Logged Interval	2600	ft		ft
Casing Depth Driller	8 5/8	in.	@ 225	in.
Casing Depth RECON	8 5/8	in.	@ 224	in.
Bit Size	7 7/8	in.		in.
Drilling Fluid Type	WBM			
Density	9.4	ppg	60 sec/qt	
Fluid Loss	PH	6.8 cc/30min	11.0 strip	
Source Of Sample	Flowline			
RM @ Measured Temp	1.102	Ohmm	@ 75	Ohmm @
RMF @ Measured Temp	0.826	Ohmm	@ 75	Ohmm @
RMC @ Measured Temp	1.377	Ohmm	@ 75	Ohmm @
RM @ MRT	0.679	Ohmm	@ 126	Ohmm @
Max Recorded Temp	126	DegF		DegF
Time Drilling Stopped	28-JAN-2015	23:00		
Time Circulation Stopped	29-JAN-2015	00:00		
Time Logger On Bottom	29-JAN-2015	03:21		
Unit Num	Location	S409	OKLAHOMA CITY, OK	
Recorded By	H. GARCIA			
Witnessed By	MR. S. DEENIHAN			

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.

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

Drill Contr/Rig#	MURFIN DRLG. #22

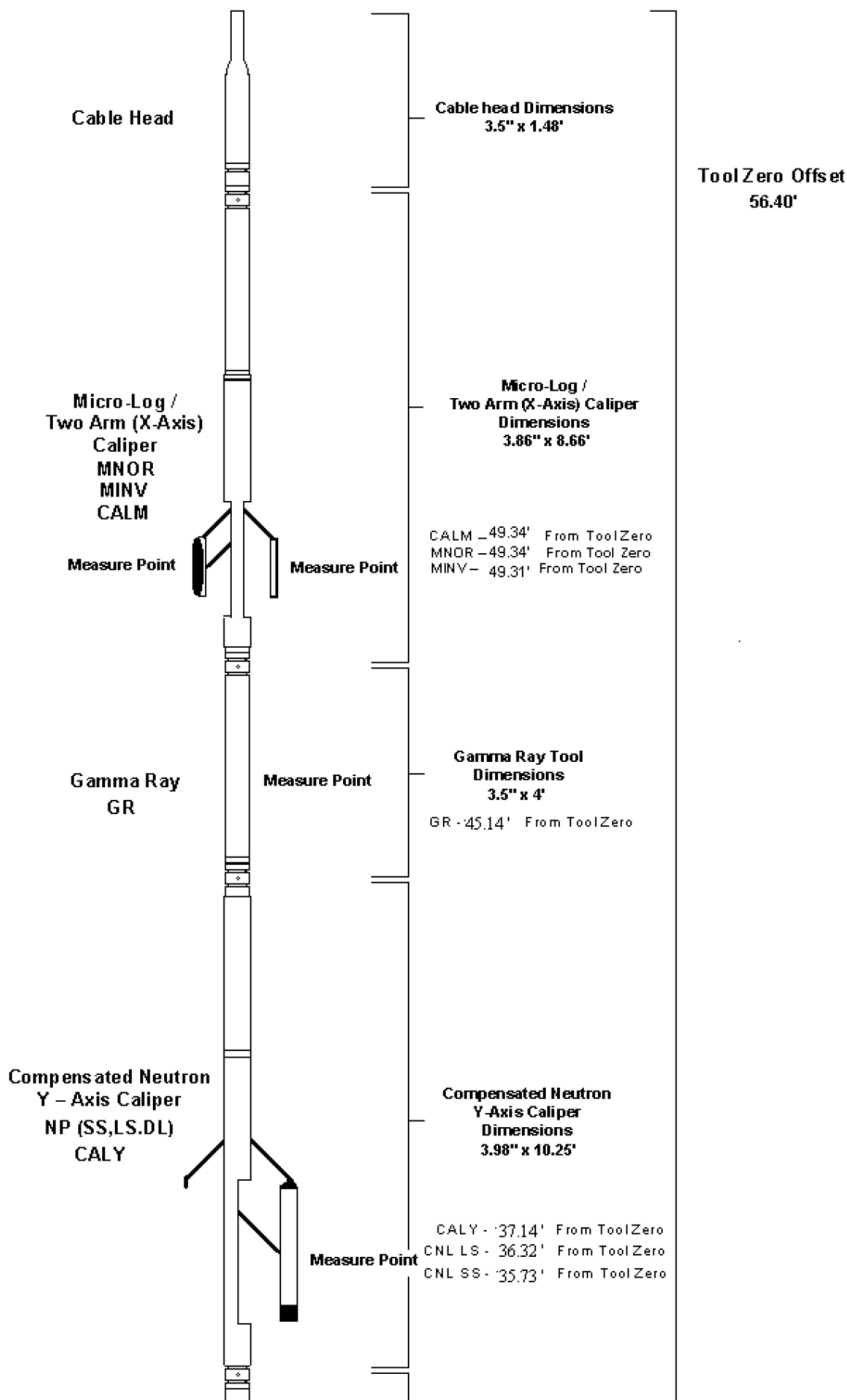
FIRST RUN IN THE HOLE CNL AND LDT LOGGED IN A LIMESTONE MATRIX TOP MARK - 364, BOTTOM MARK - 4768.4 CNL/LDT LOGGED MATRIX: 2.71 g/cc. CHLORIDES: 1900 ppm LCM: 4 ppb THANK YOU FOR USING RECON PETROTECHNOLOGIES LTD.	AHV CALCULATED ON 5.5" PROD. CASING CREW: J. ROSE, B. THOMAS
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CNL AND LDT LOGGED IN A LIMESTONE MATRIX
TOP MARK - 364, BOTTOM MARK - 4768.4
CNL/LDT LOGGED MATRIX: 2.71 g/cc.

CHLORIDES: 1900 ppm
LCM: 4 ppb

THANK YOU FOR USING RECON PETROTECHNOLOGIES LTD.

**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**

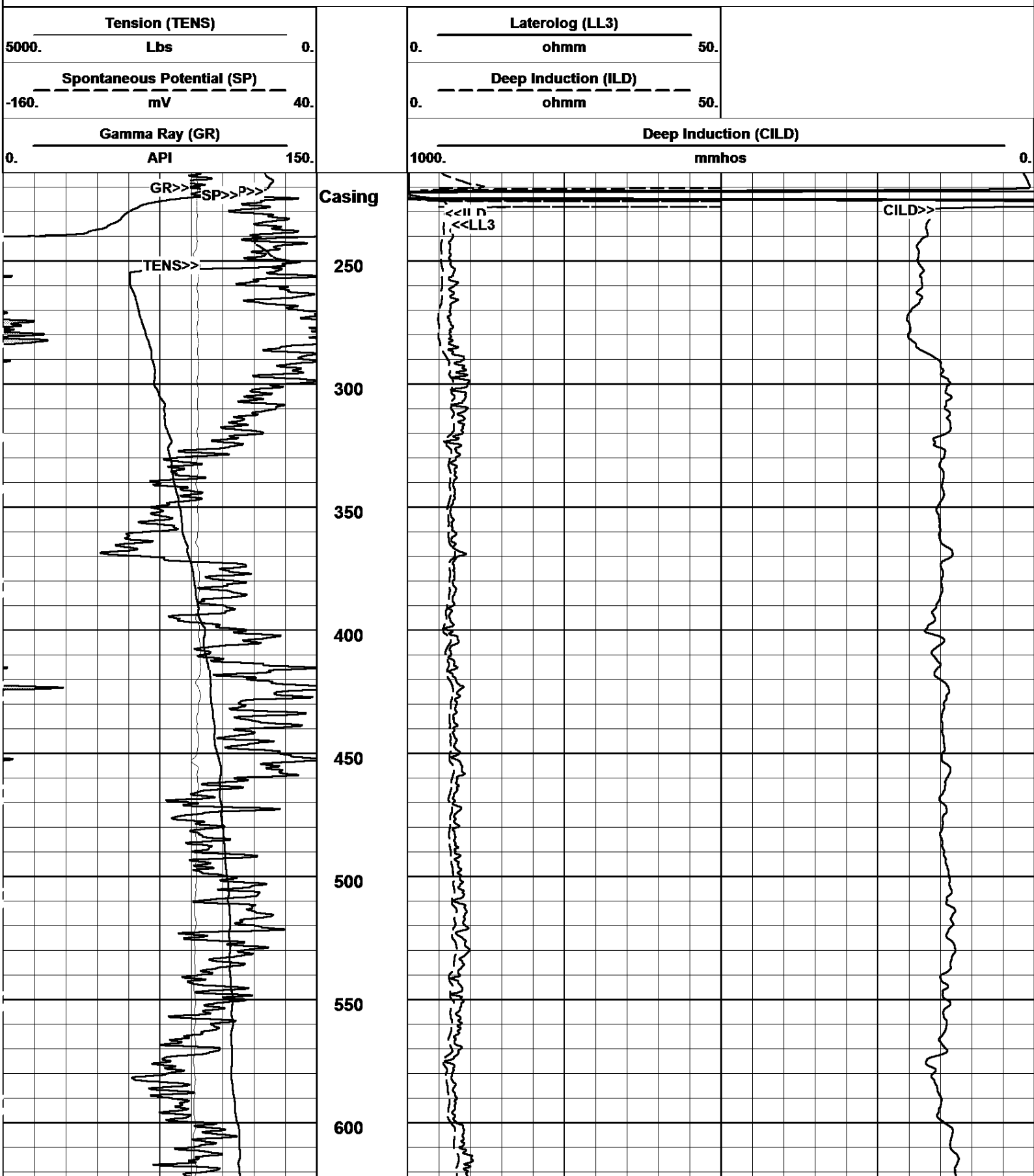
01/29/2015

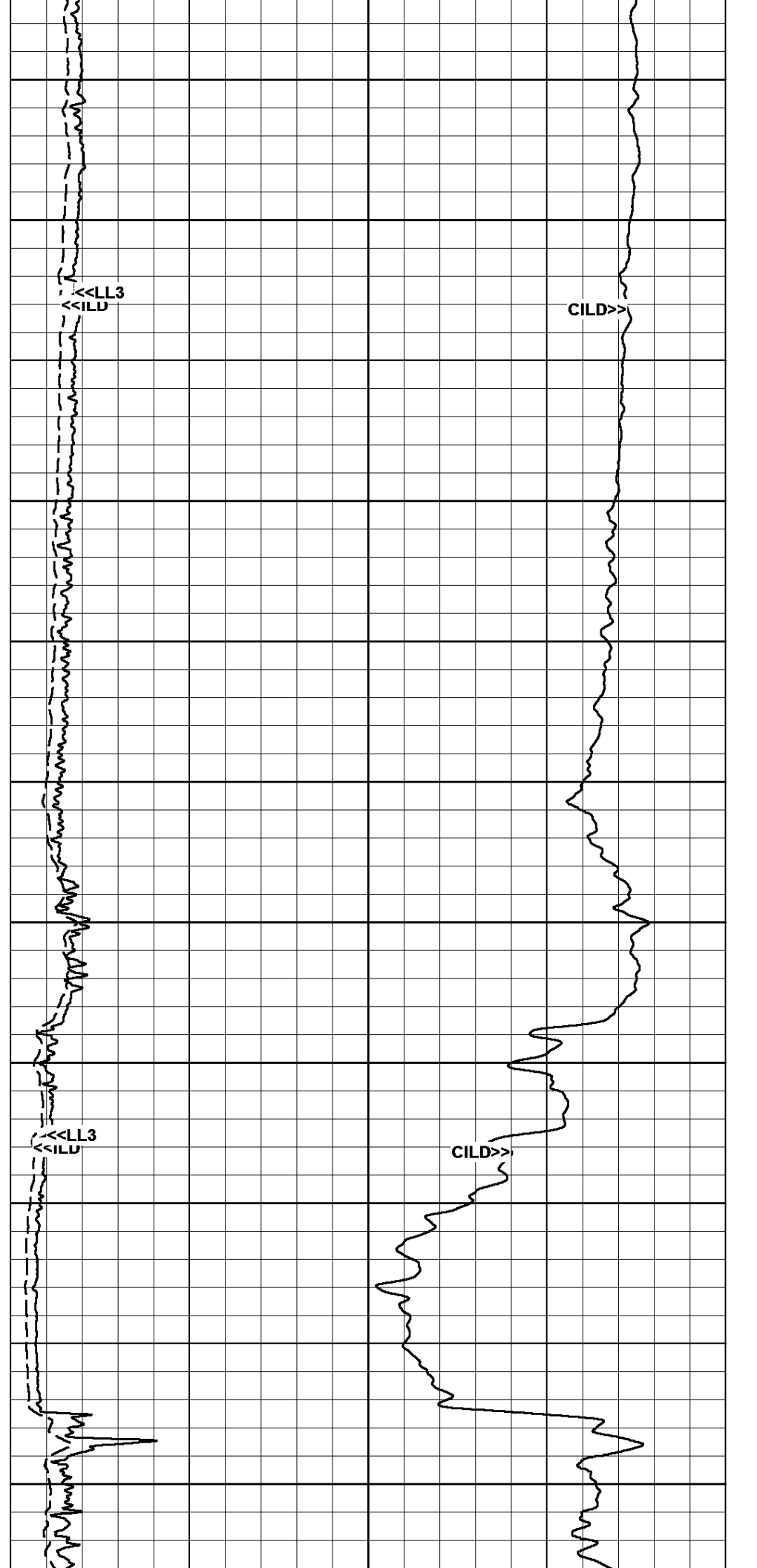
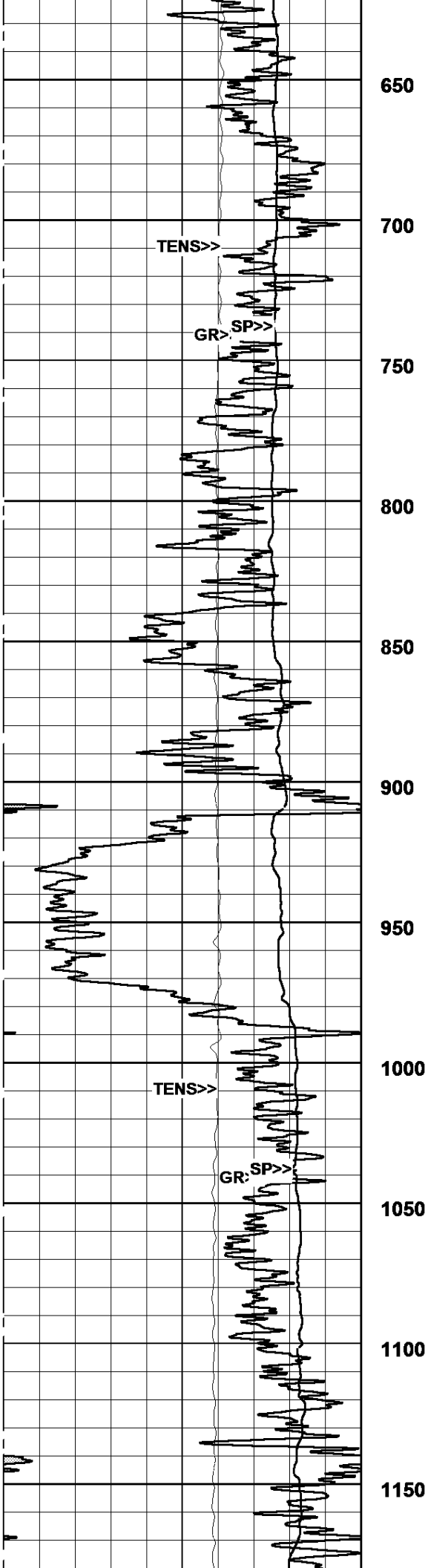
05:43:59 => End Time

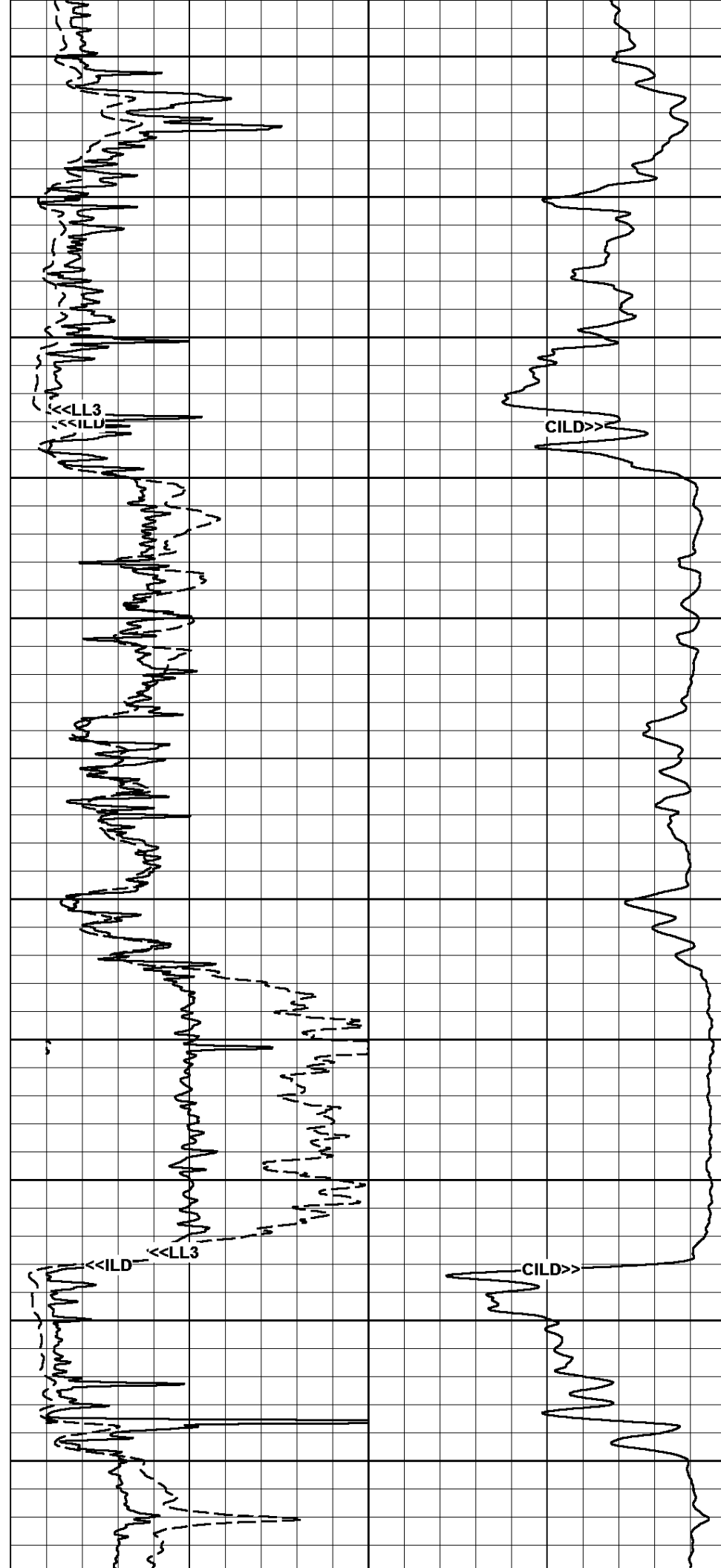
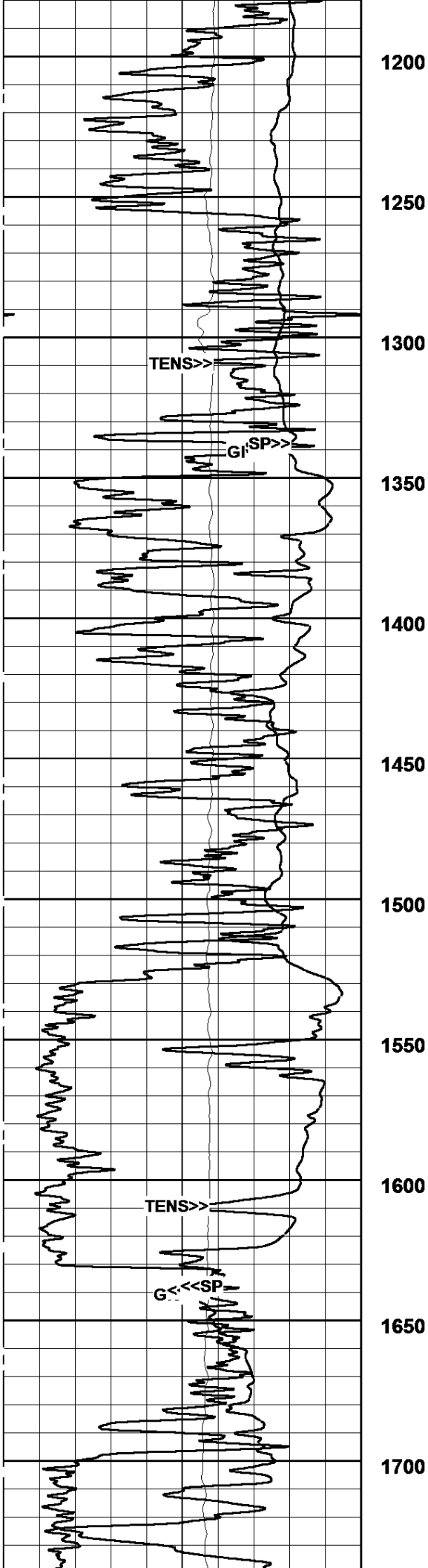
MAIN PASS (2"/100Ft)

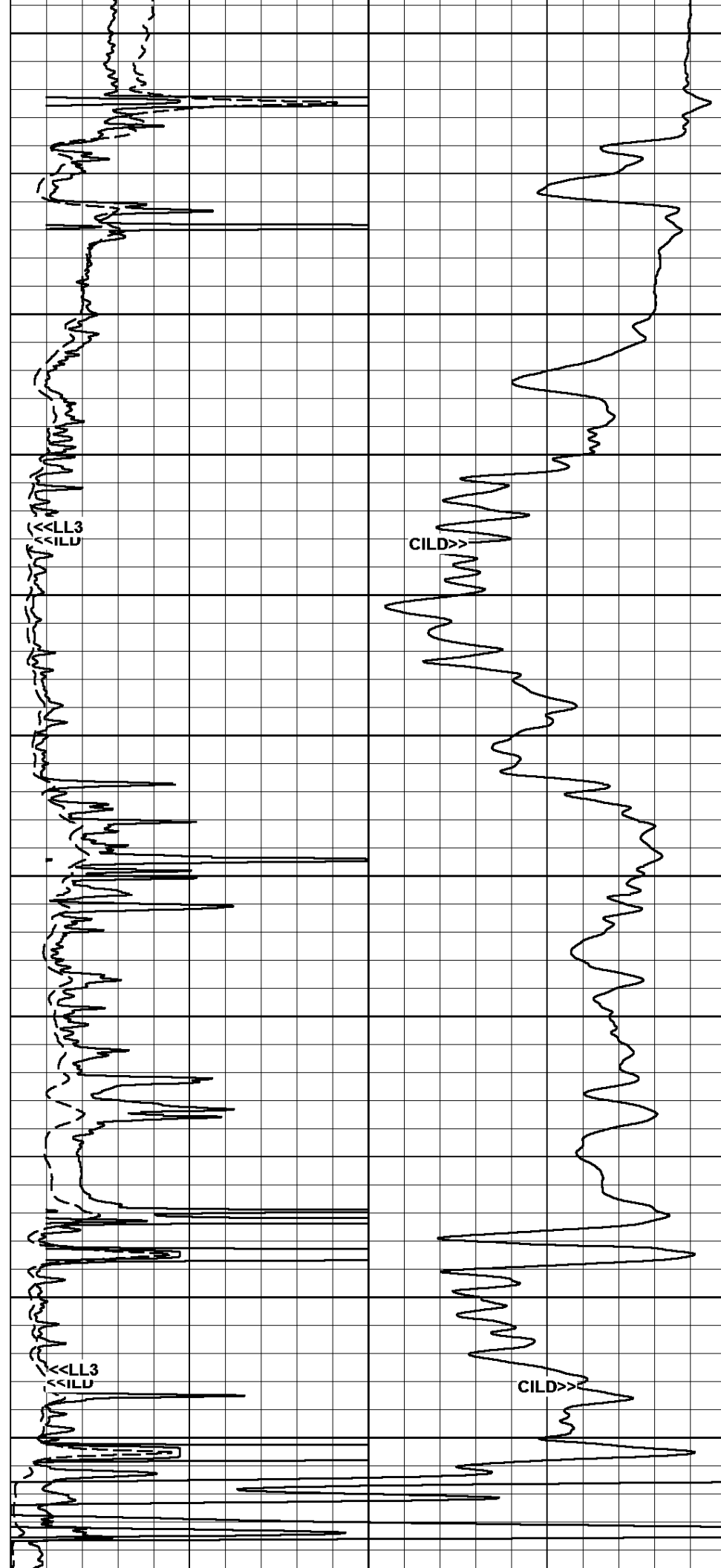
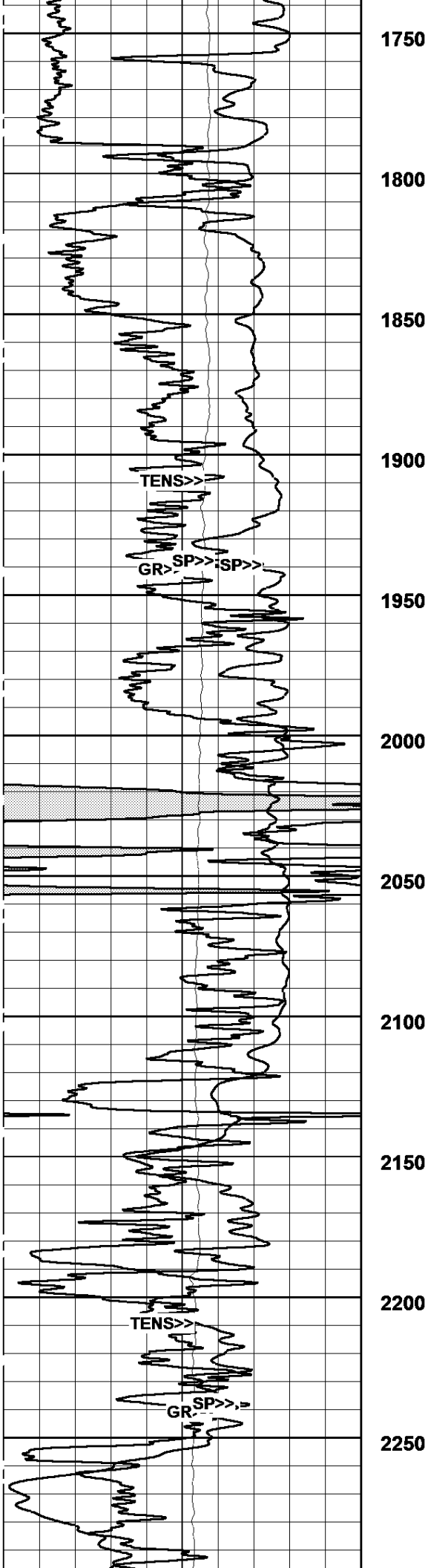
Log UP - (VER 11.19)

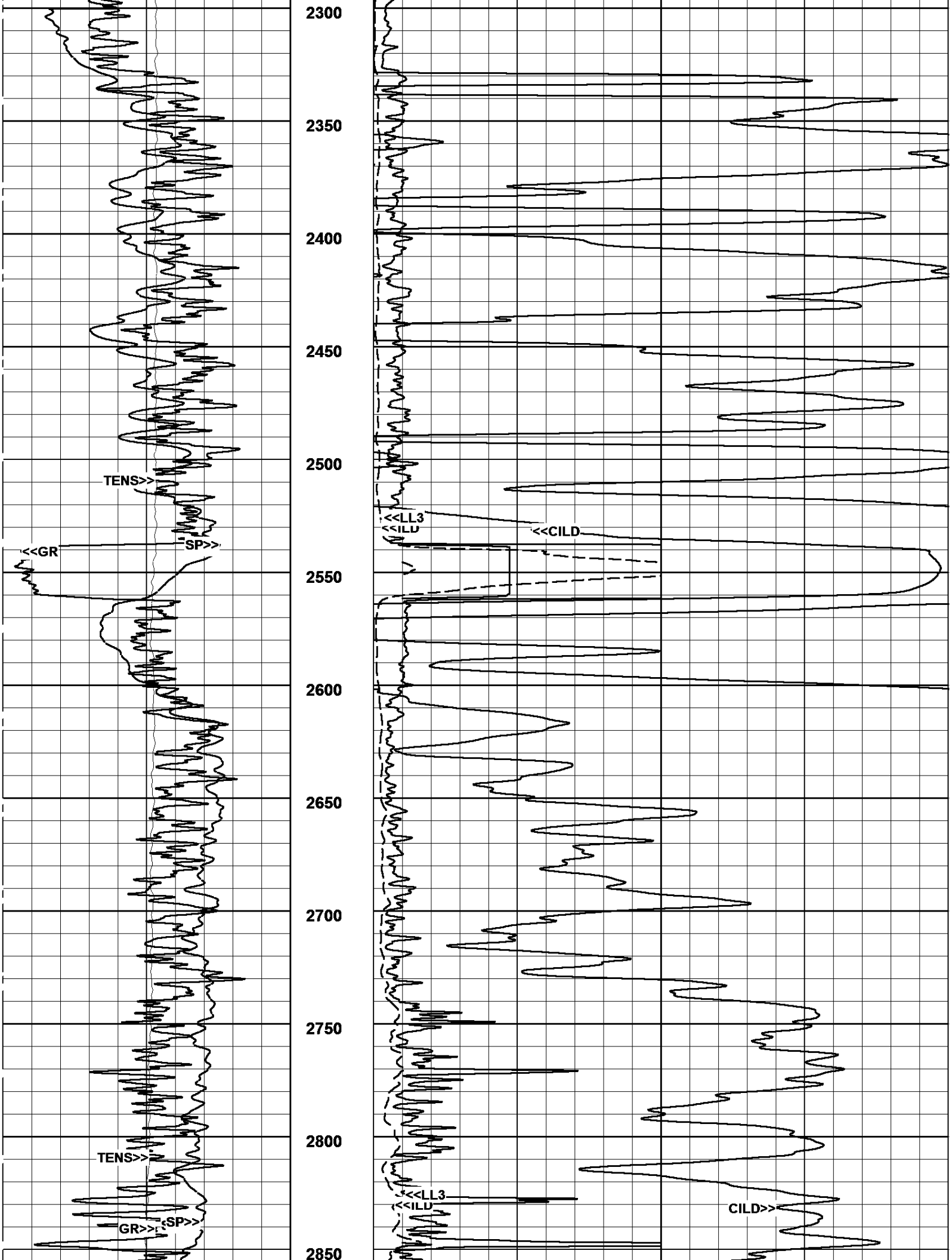
End Depth=> 214.75 Feet

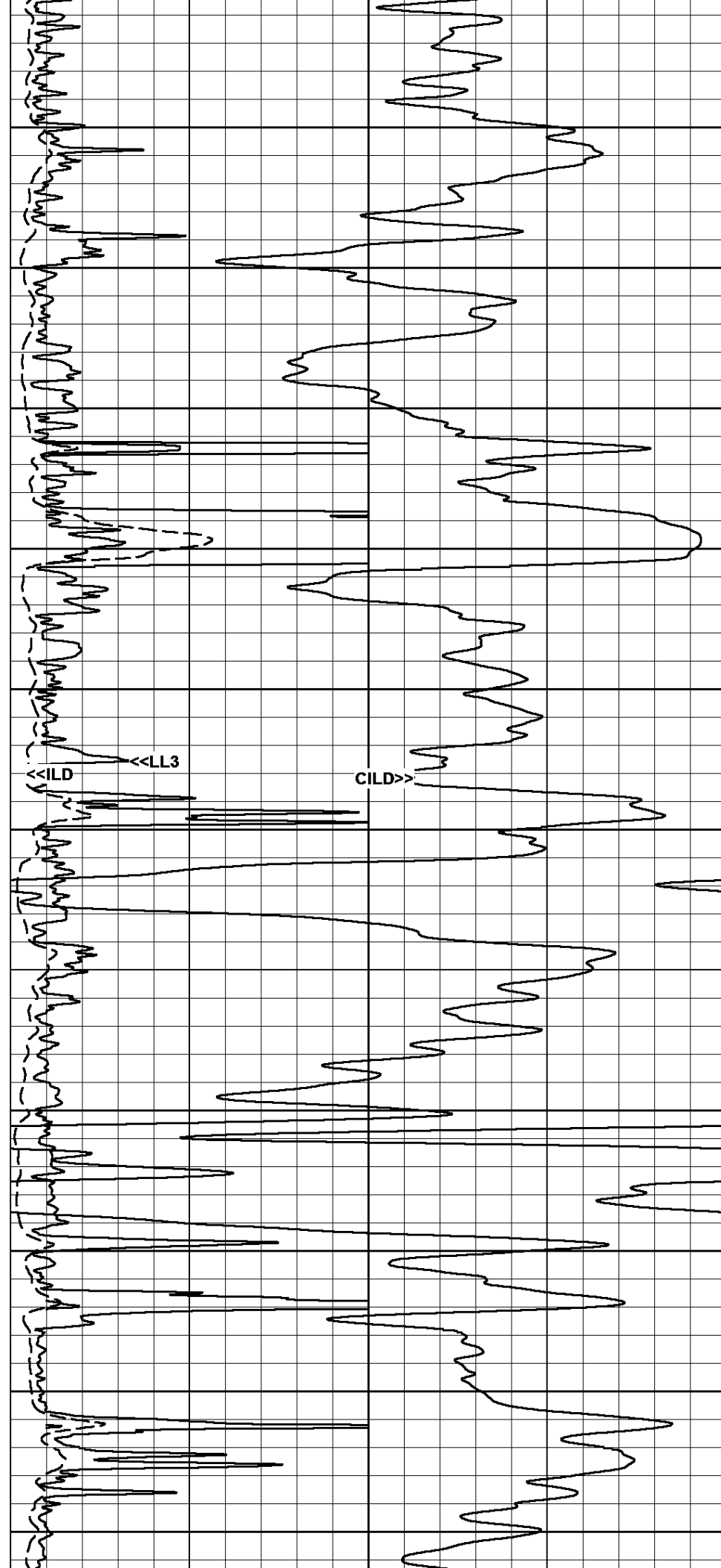
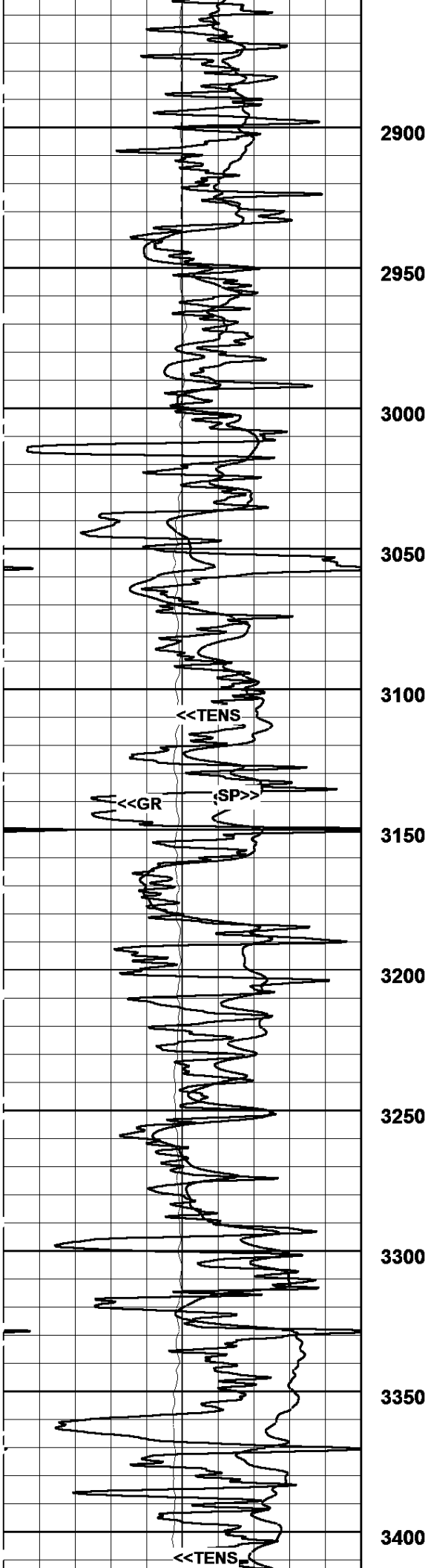


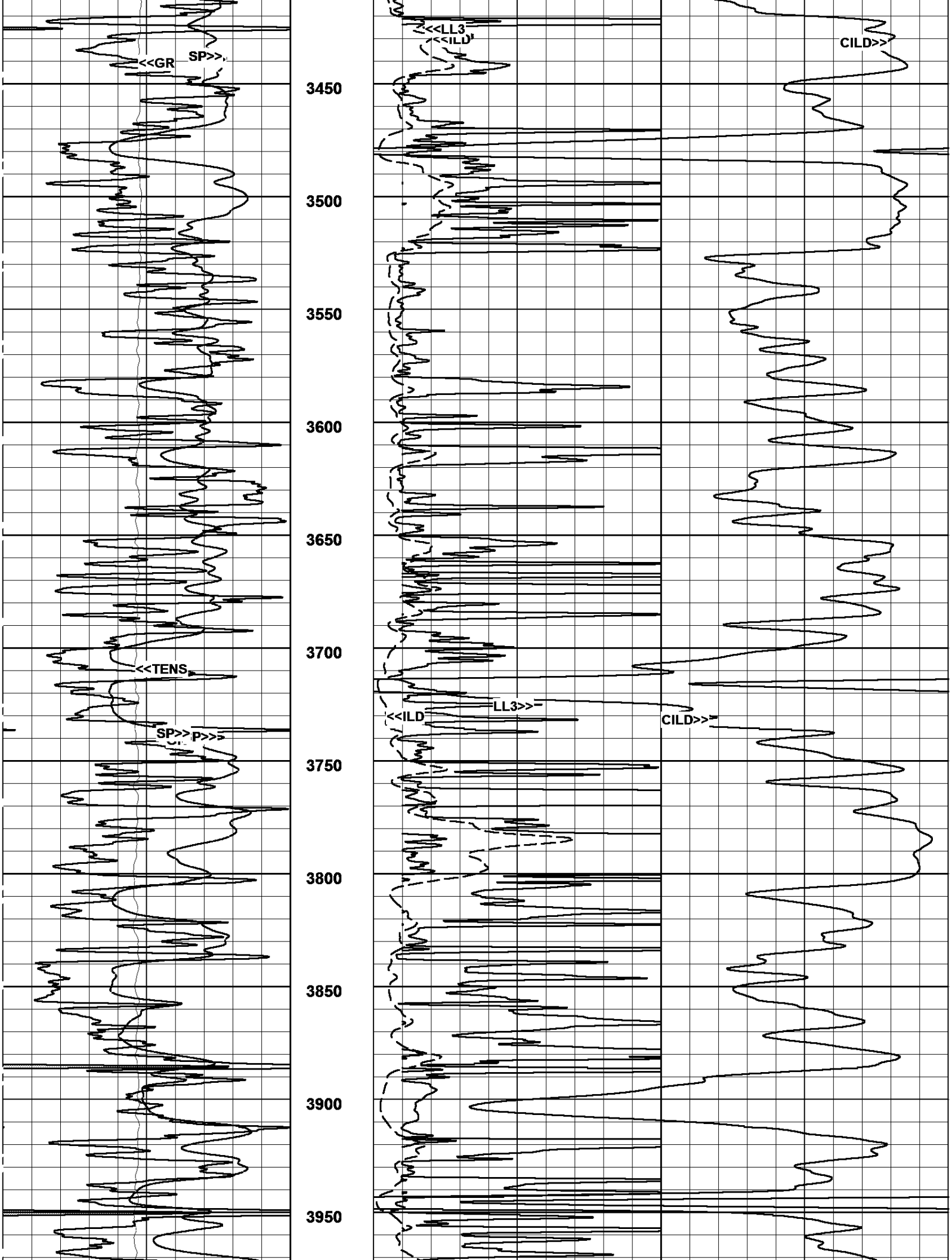


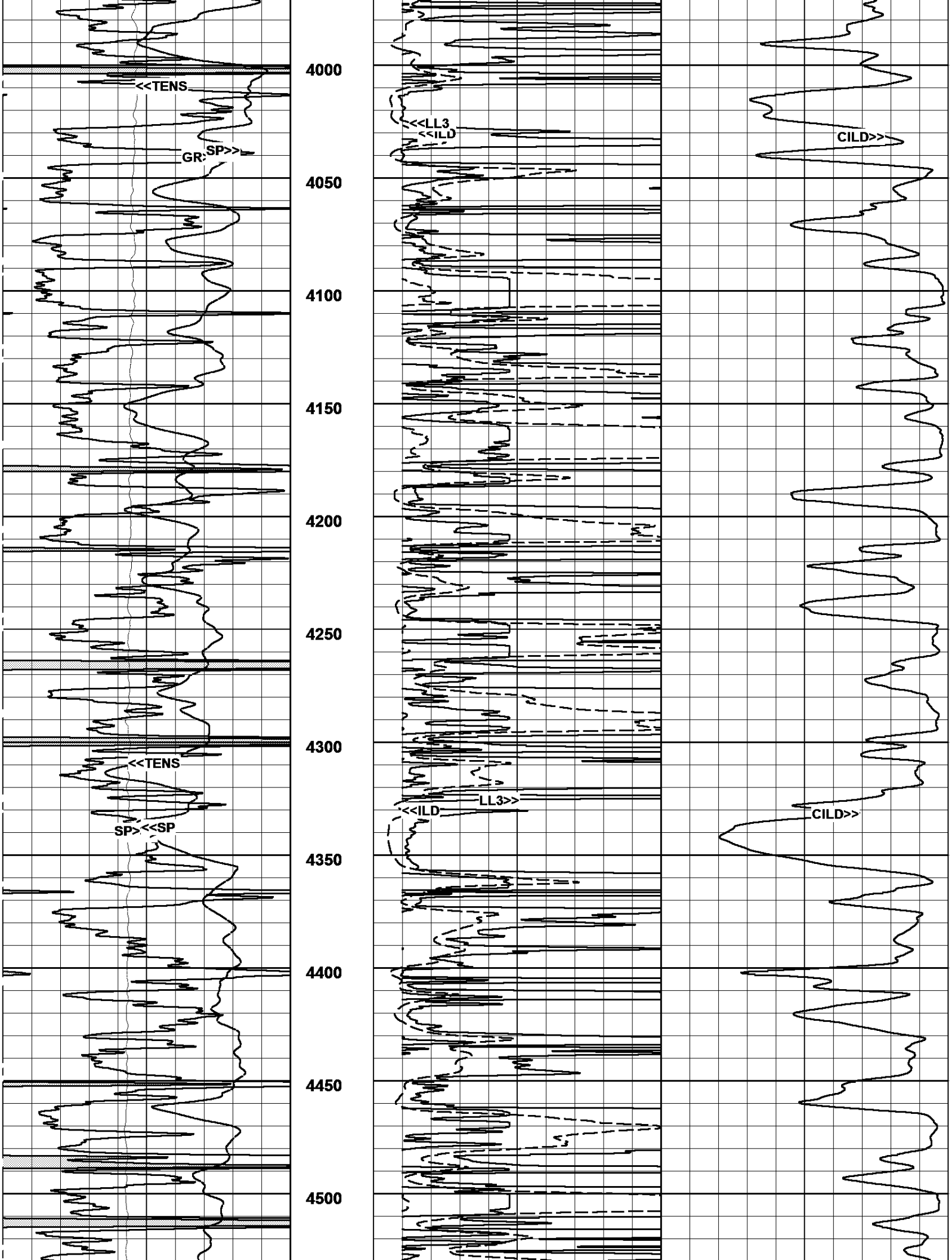


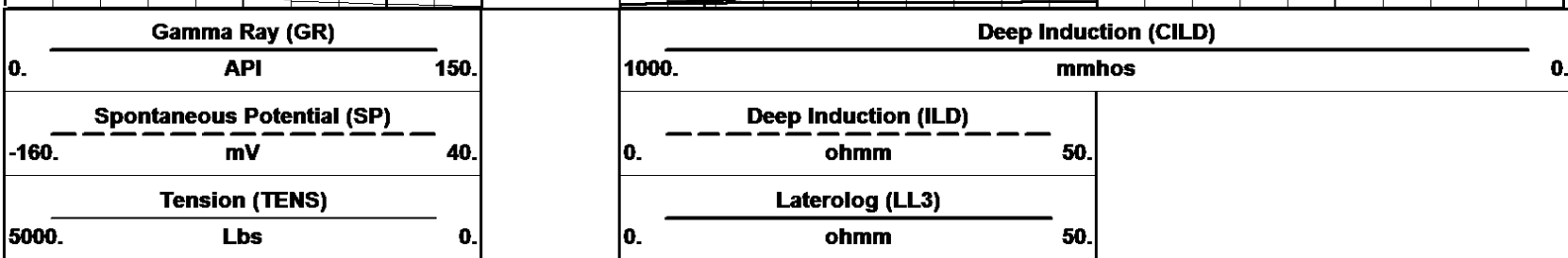
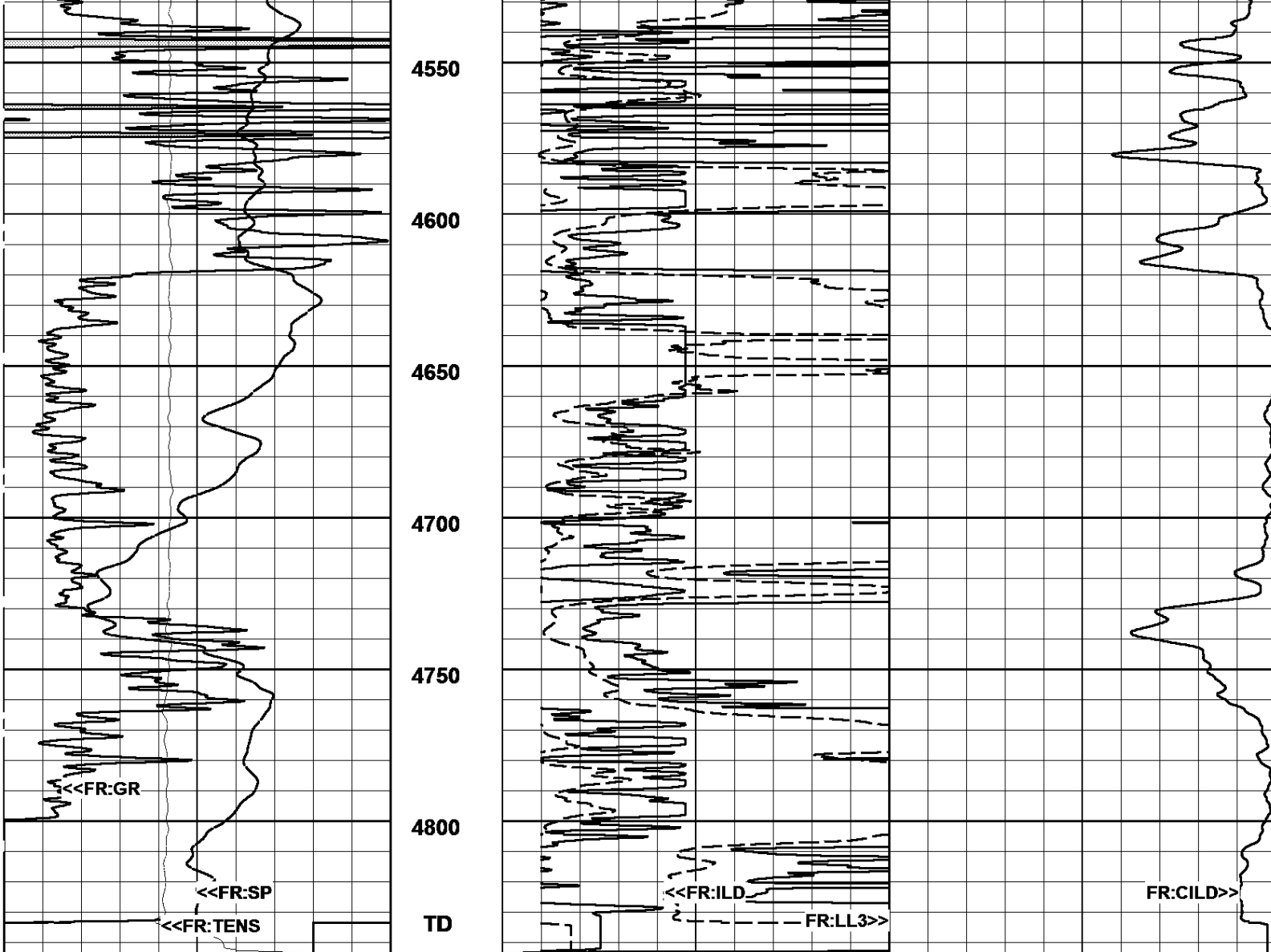






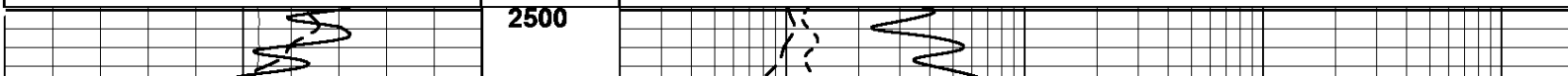
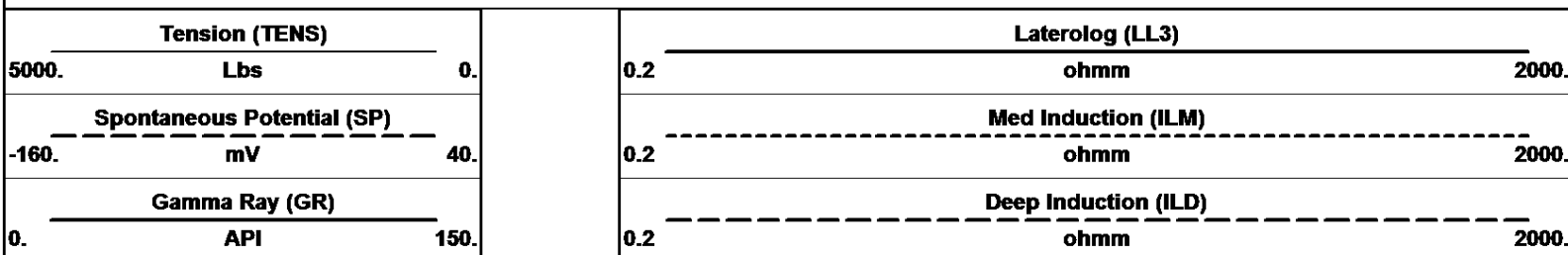


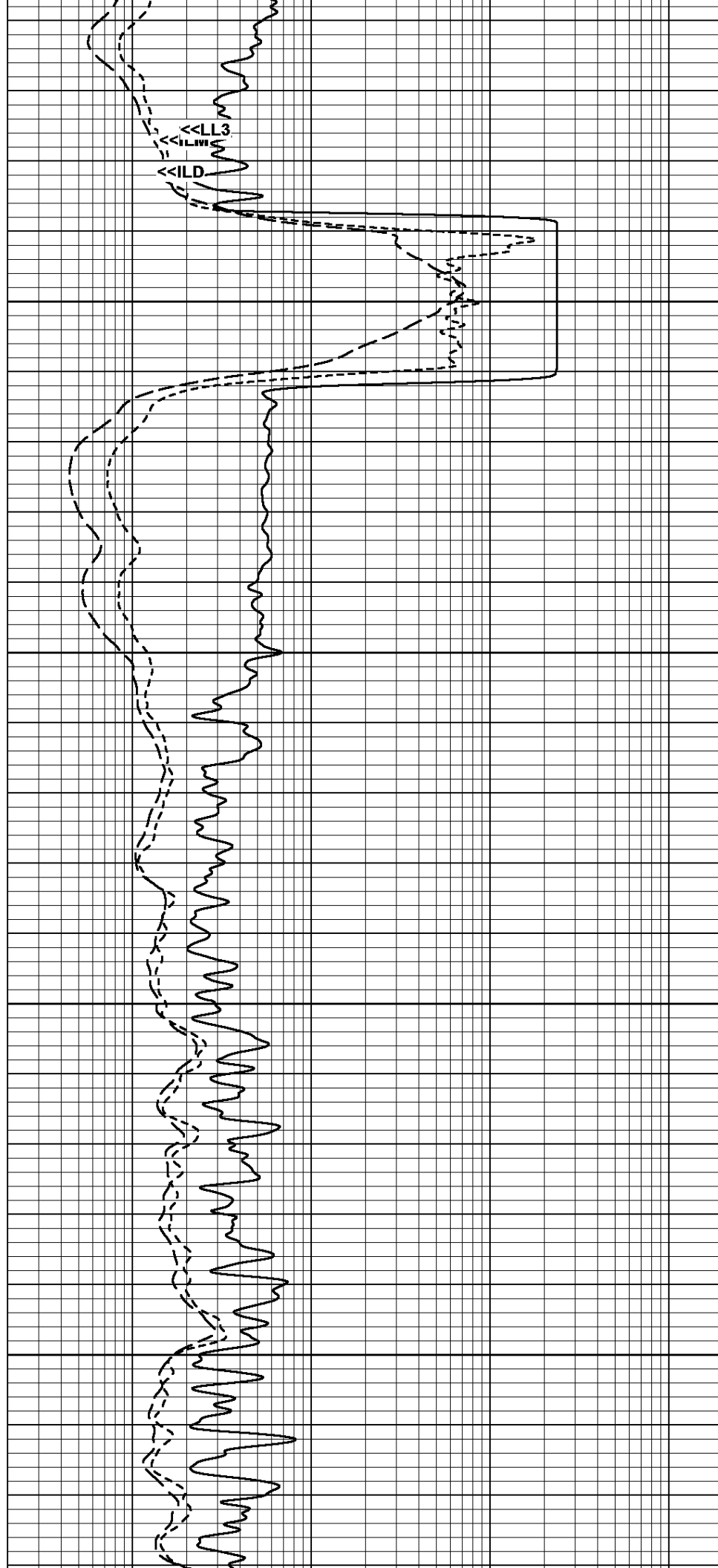
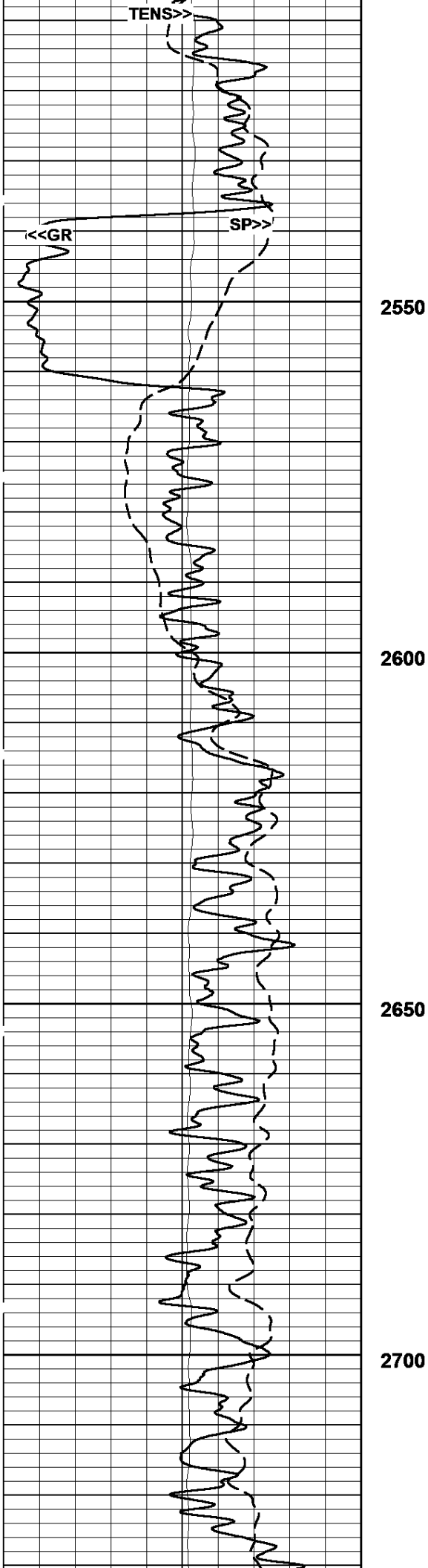




01/29/2015 03:47:55 => Start Time	MAIN PASS (2"/100Ft)	Log UP - (VER 11.19) Start Depth=> 4844.25 Feet
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01/29/2015 05:43:59 => End Time	MAIN PASS (5"/100Ft)	Log UP - (VER 11.19) End Depth=> 2499.90 Feet
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2750

2800

2850

2900

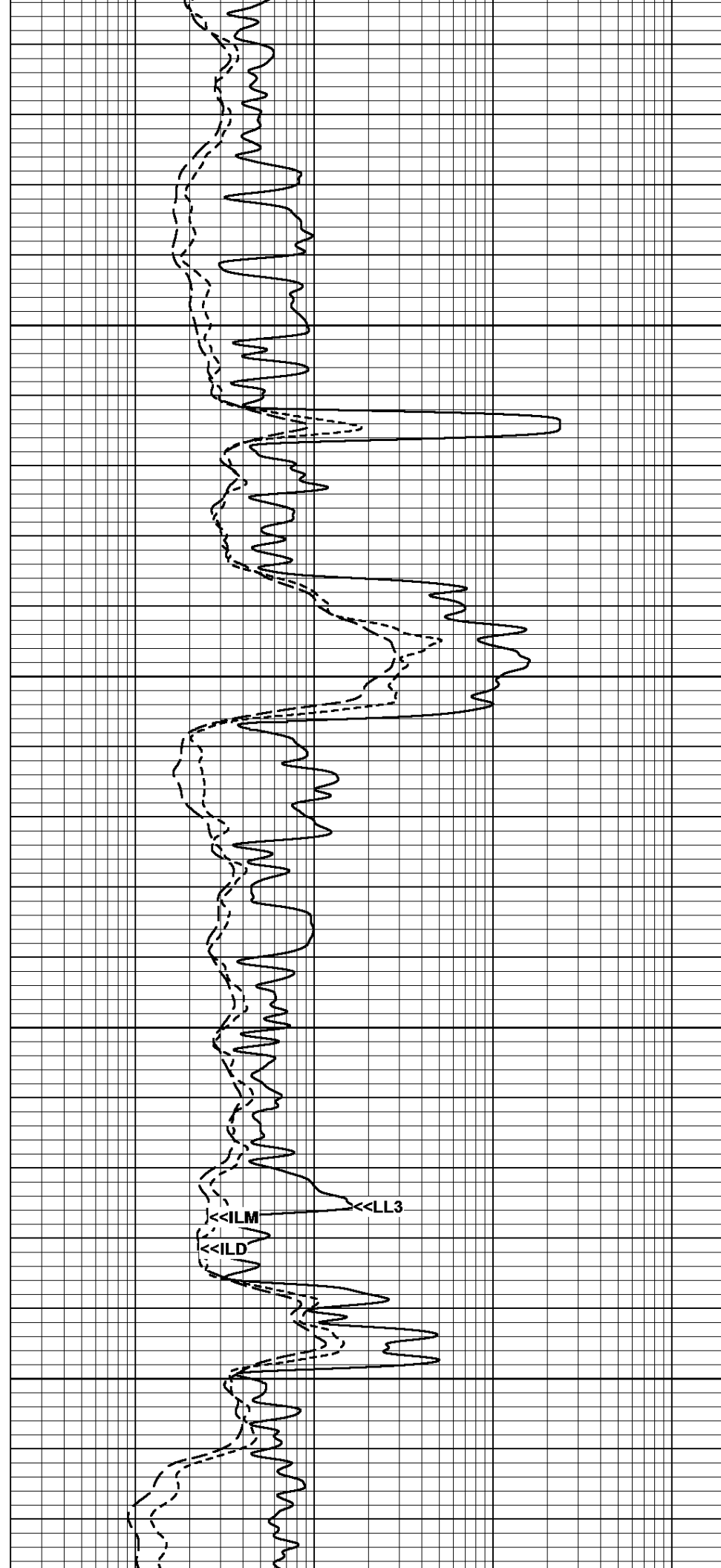
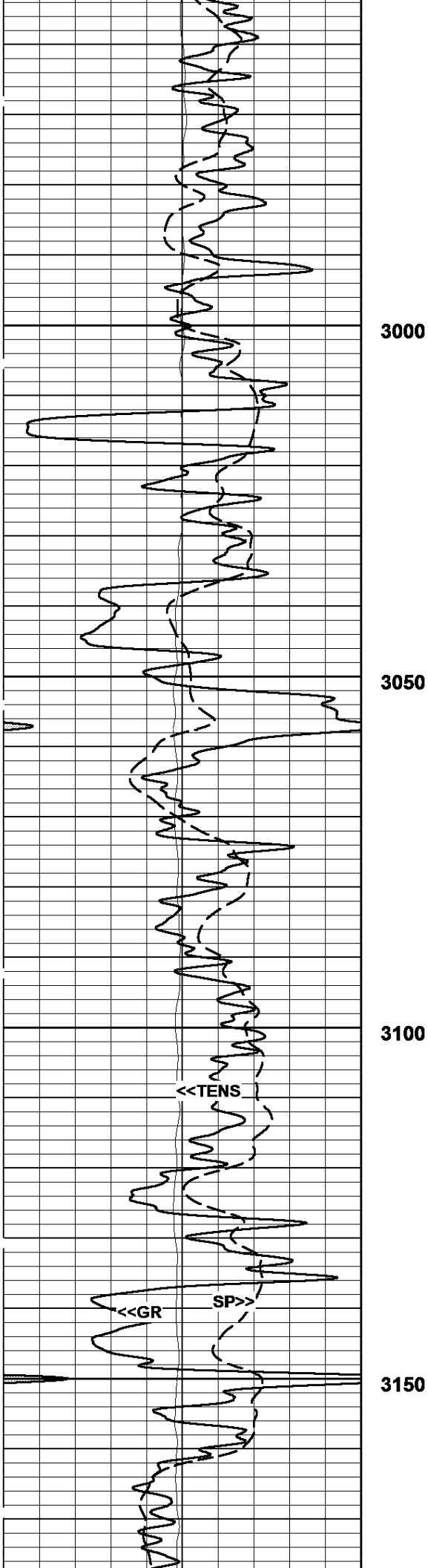
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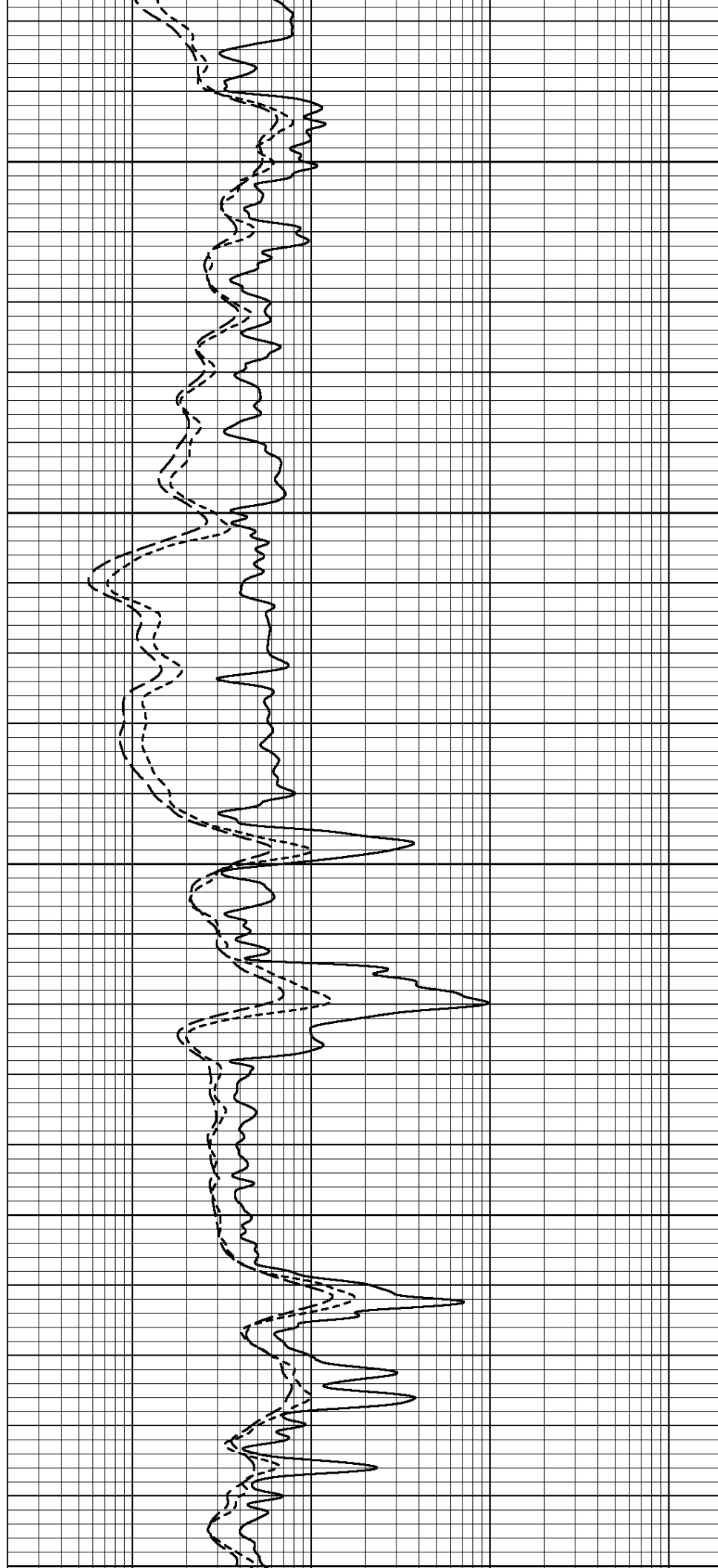
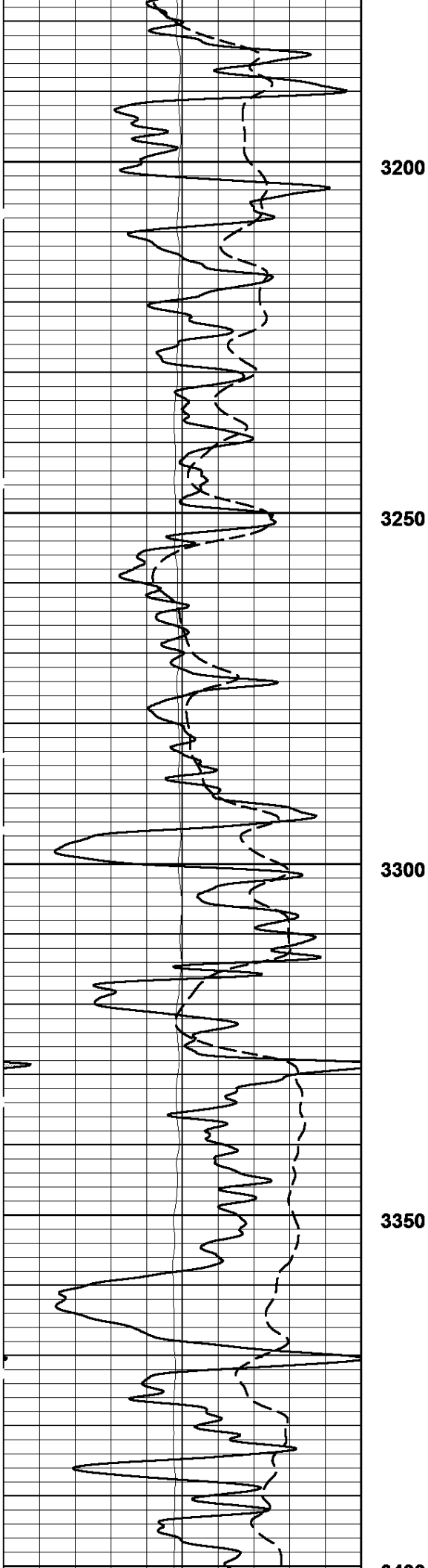
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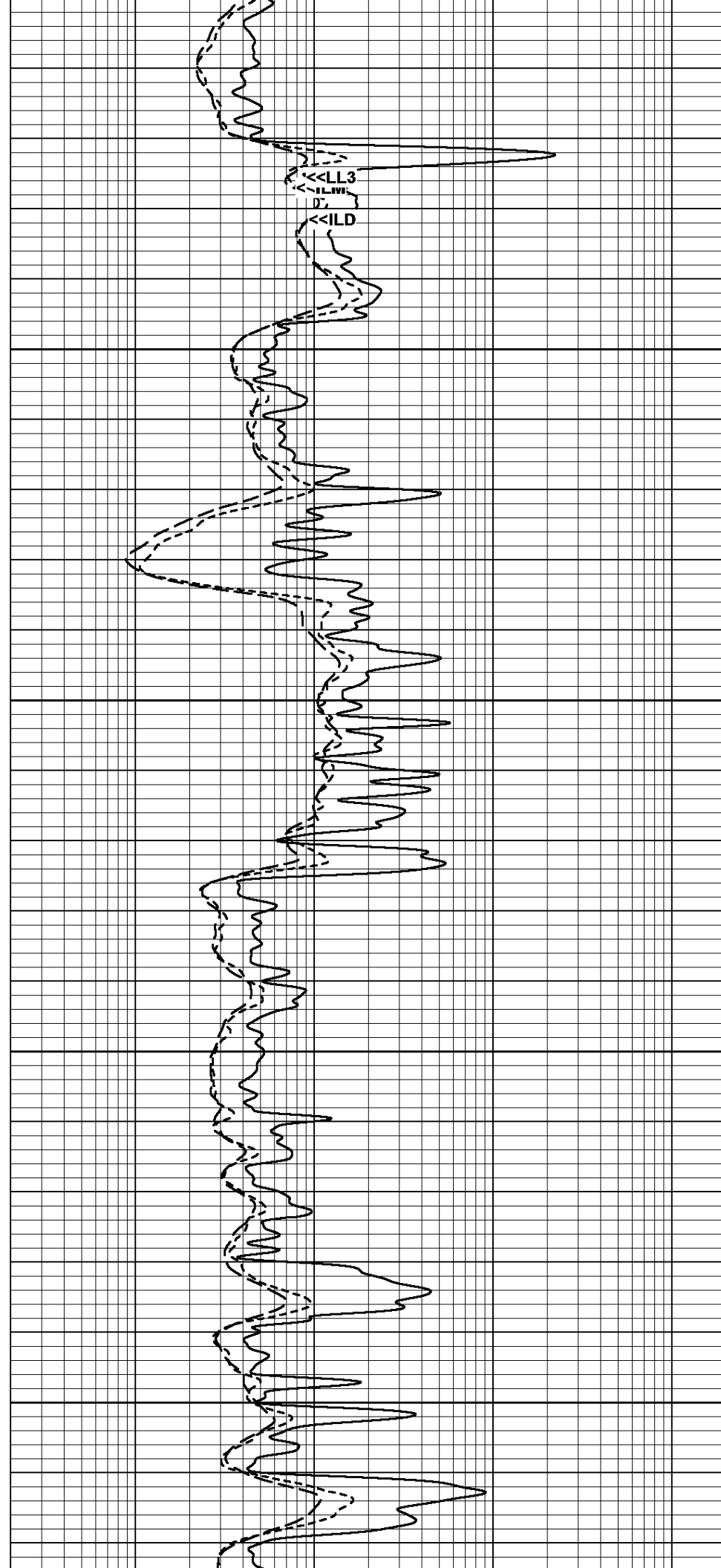
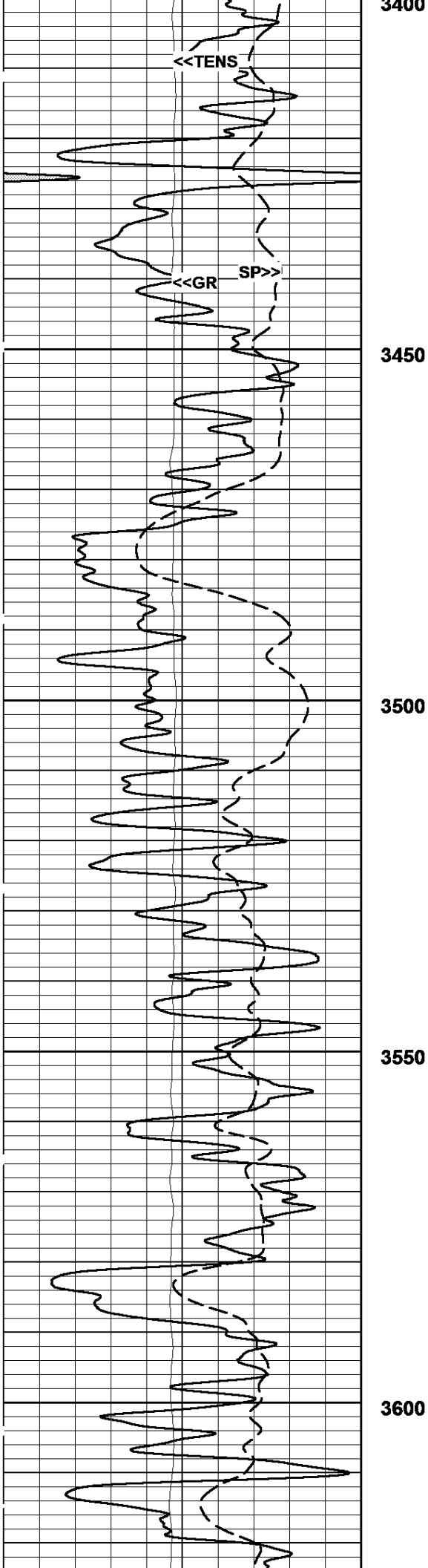
GR>> SP>>

<<LL3

<<ILD







3650

3700

3750

3800

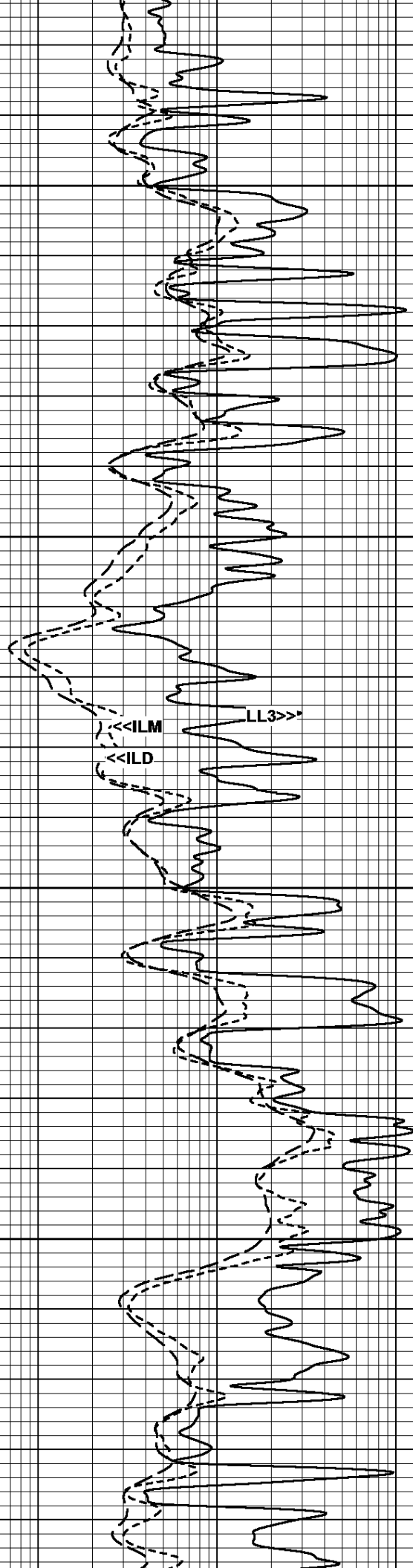
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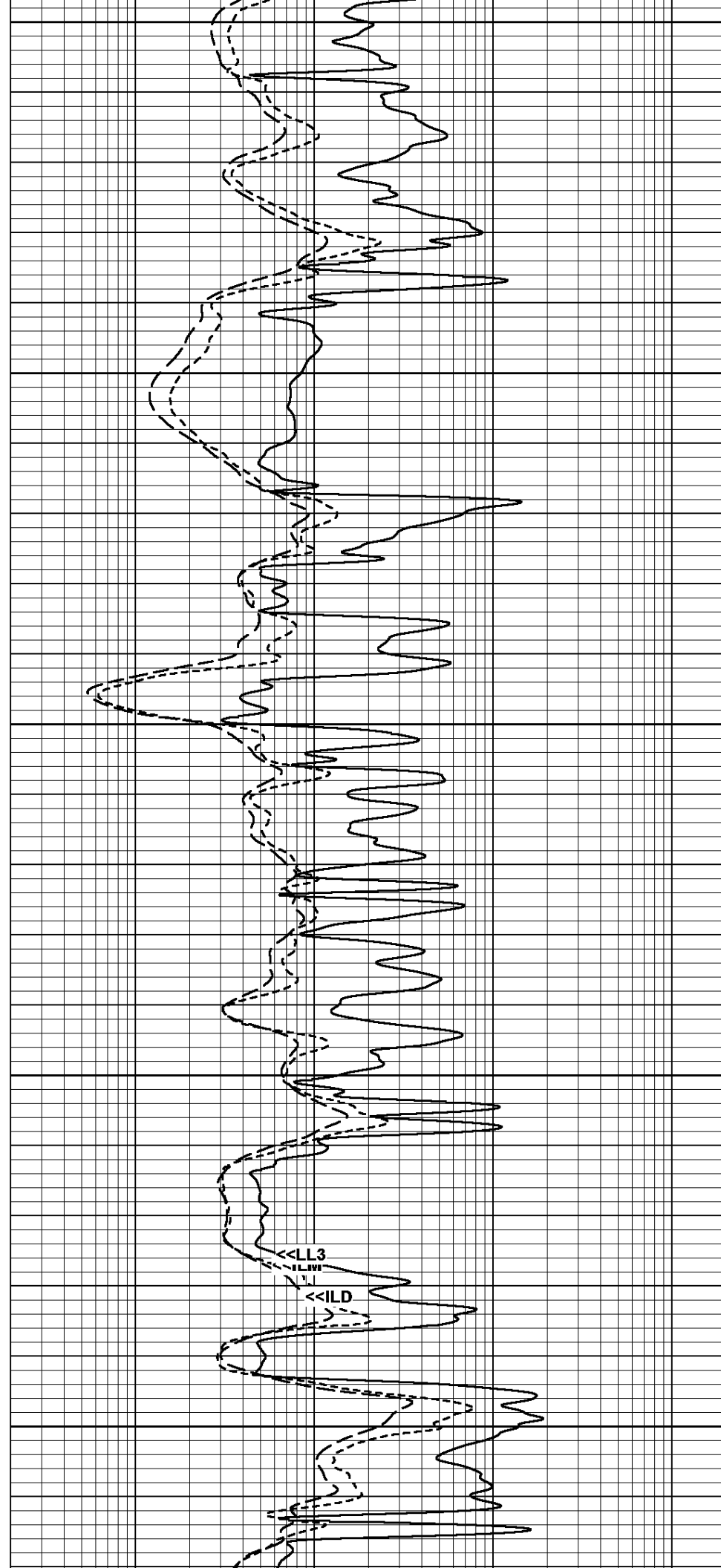
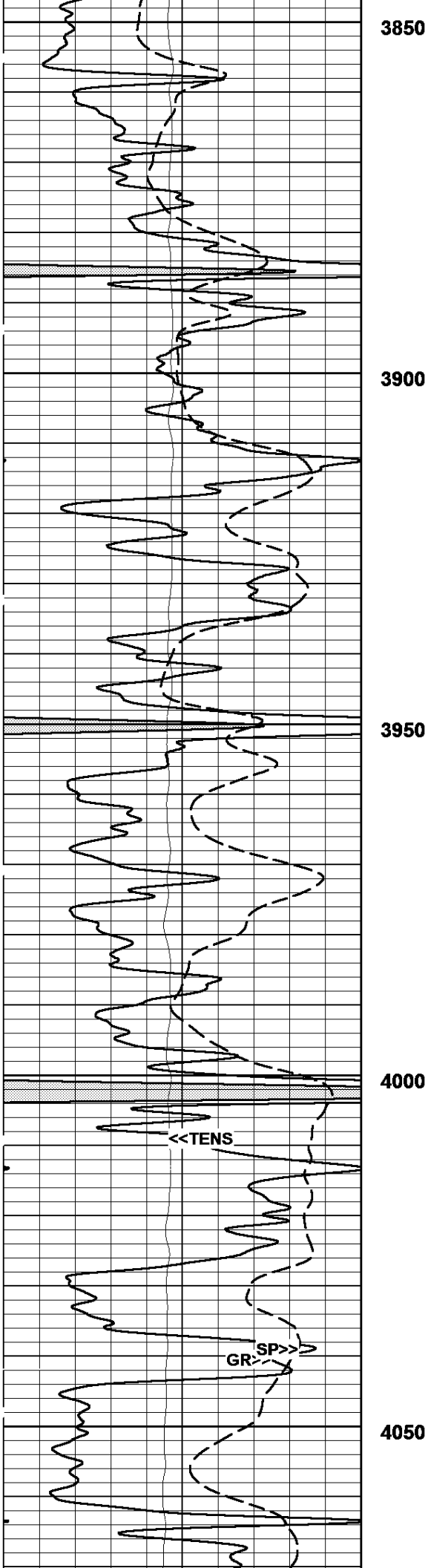
GR>>

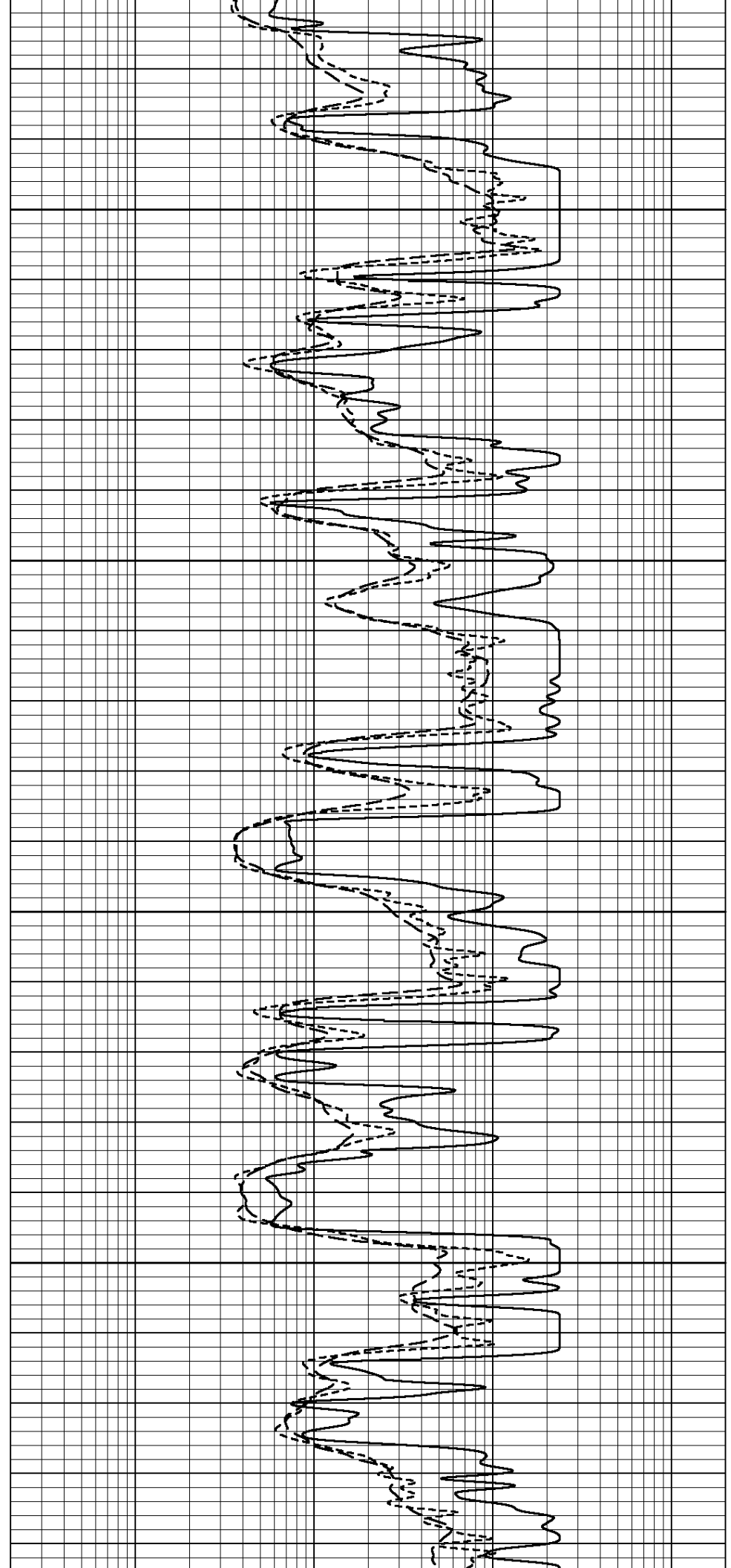
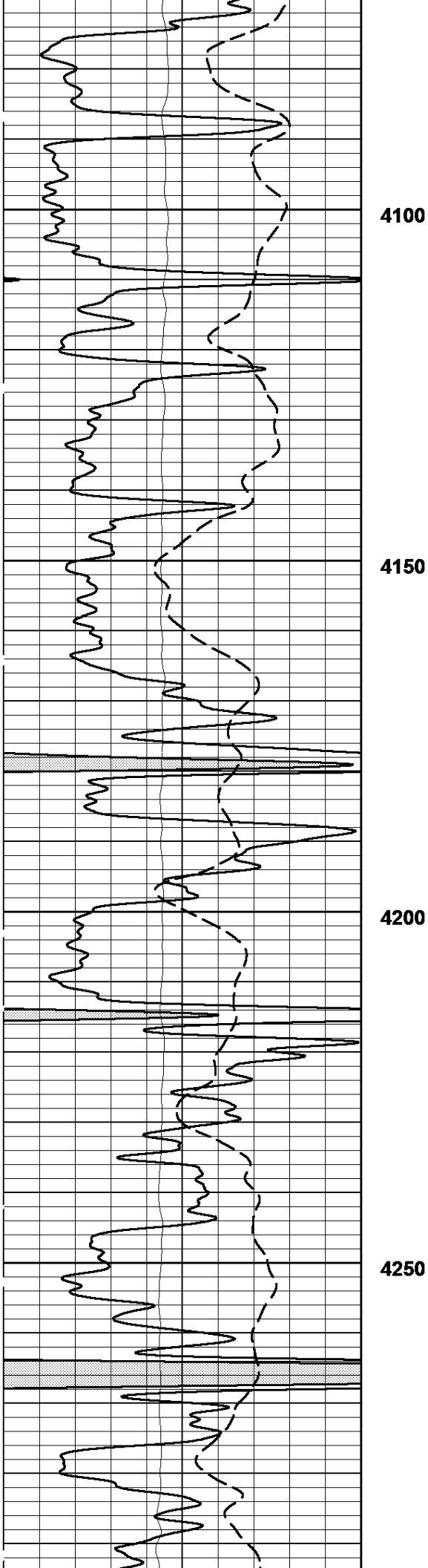
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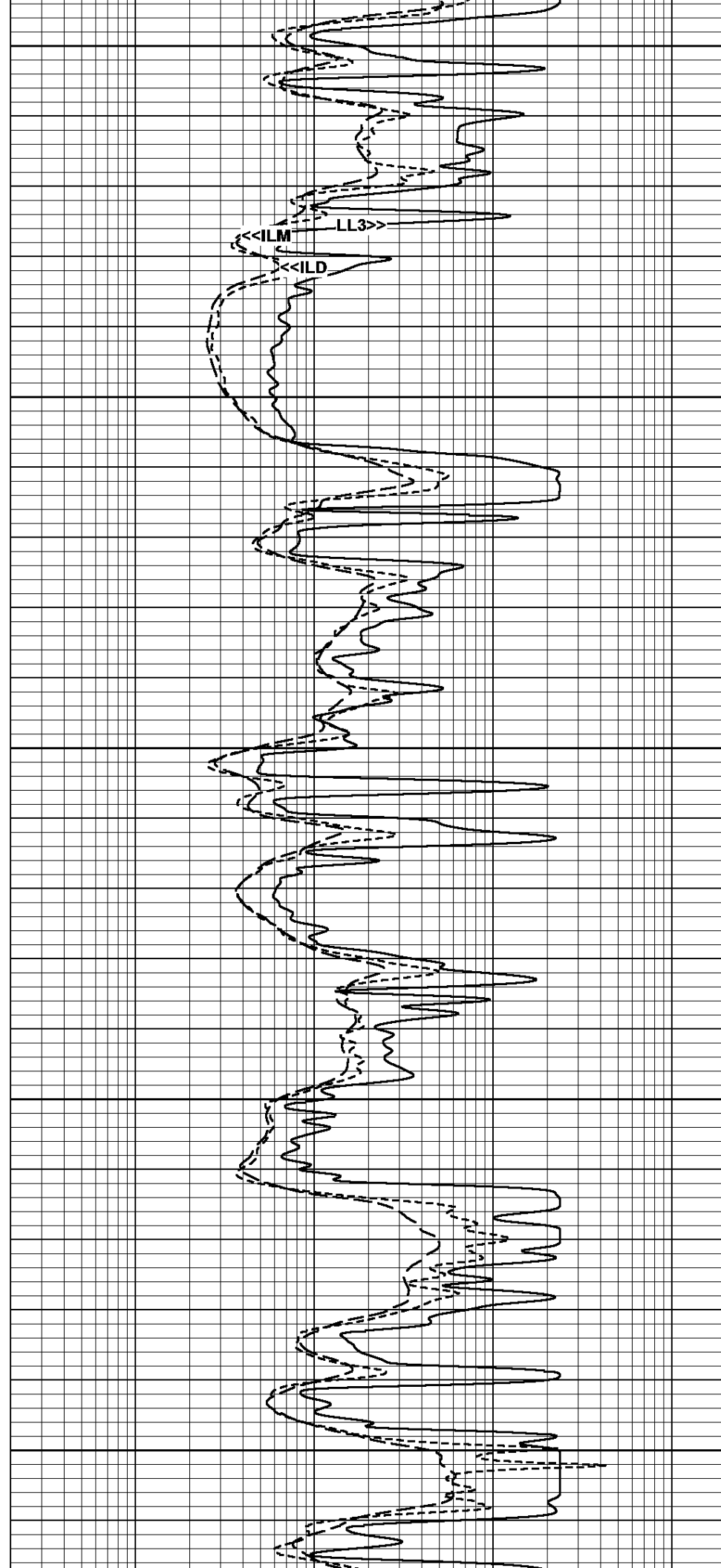
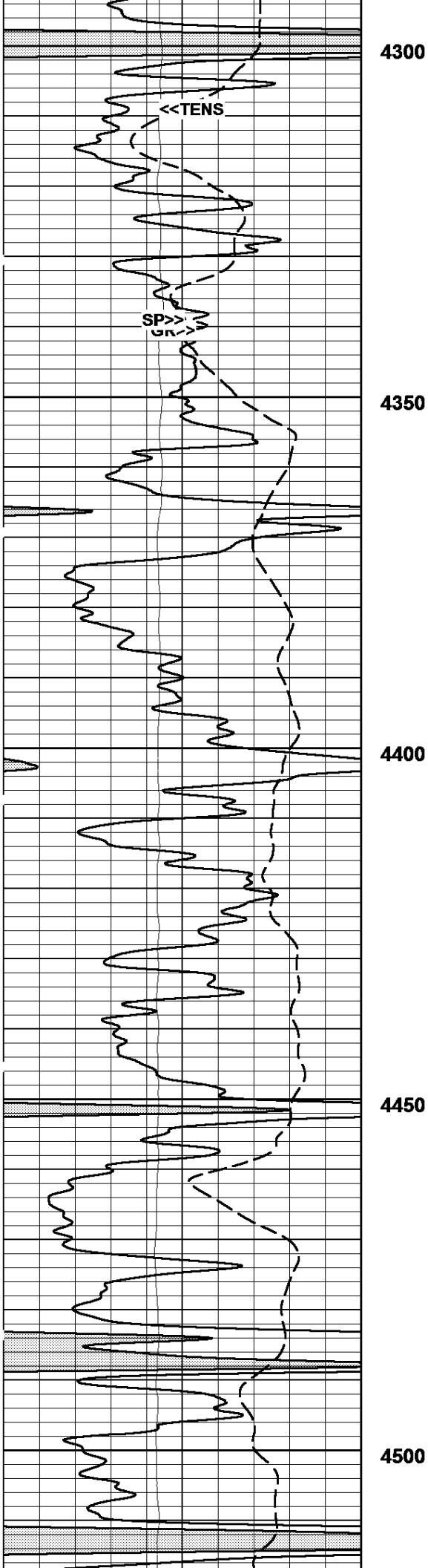
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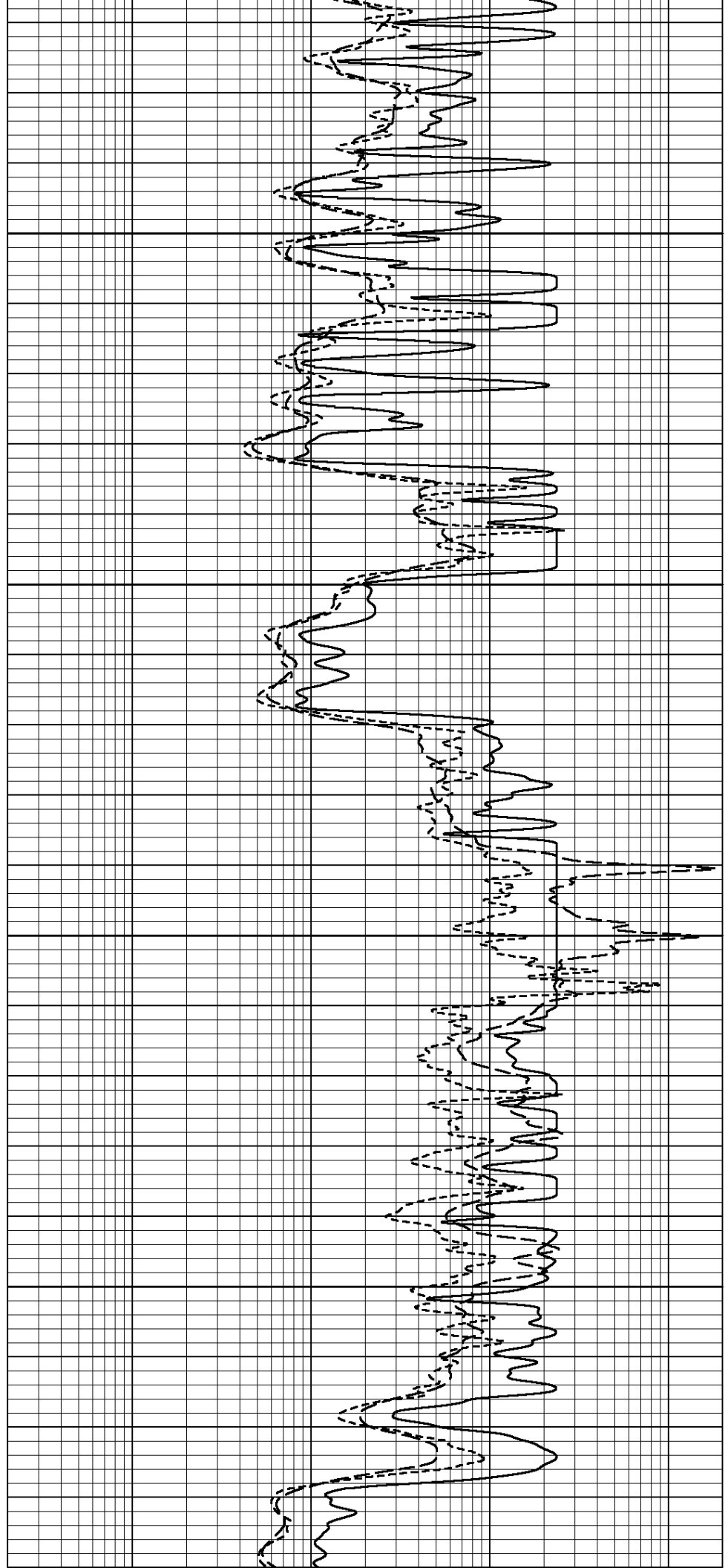
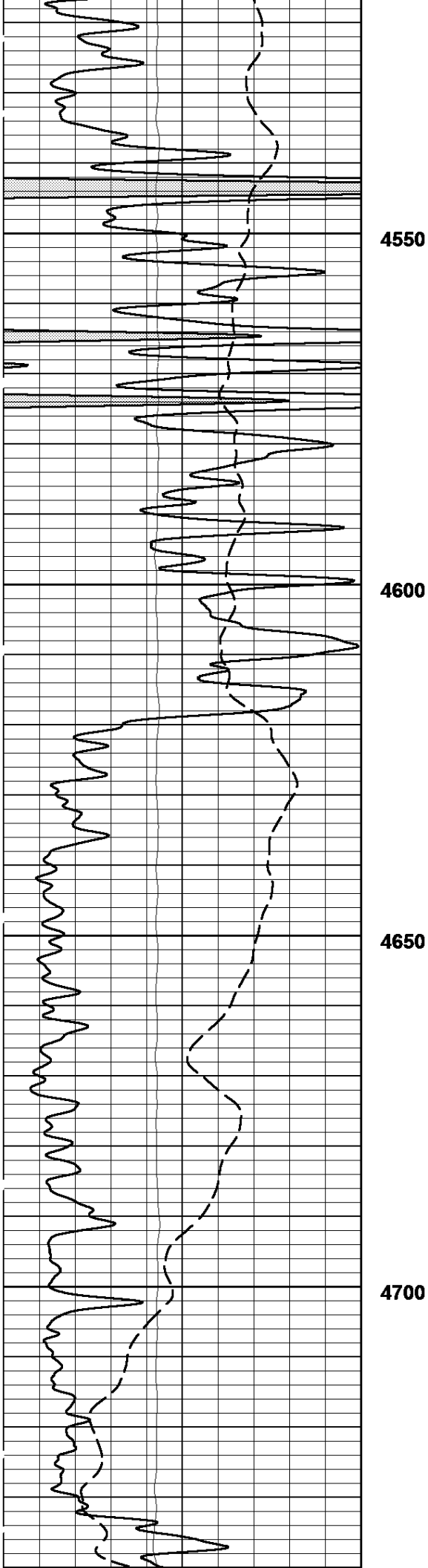
LL3>>

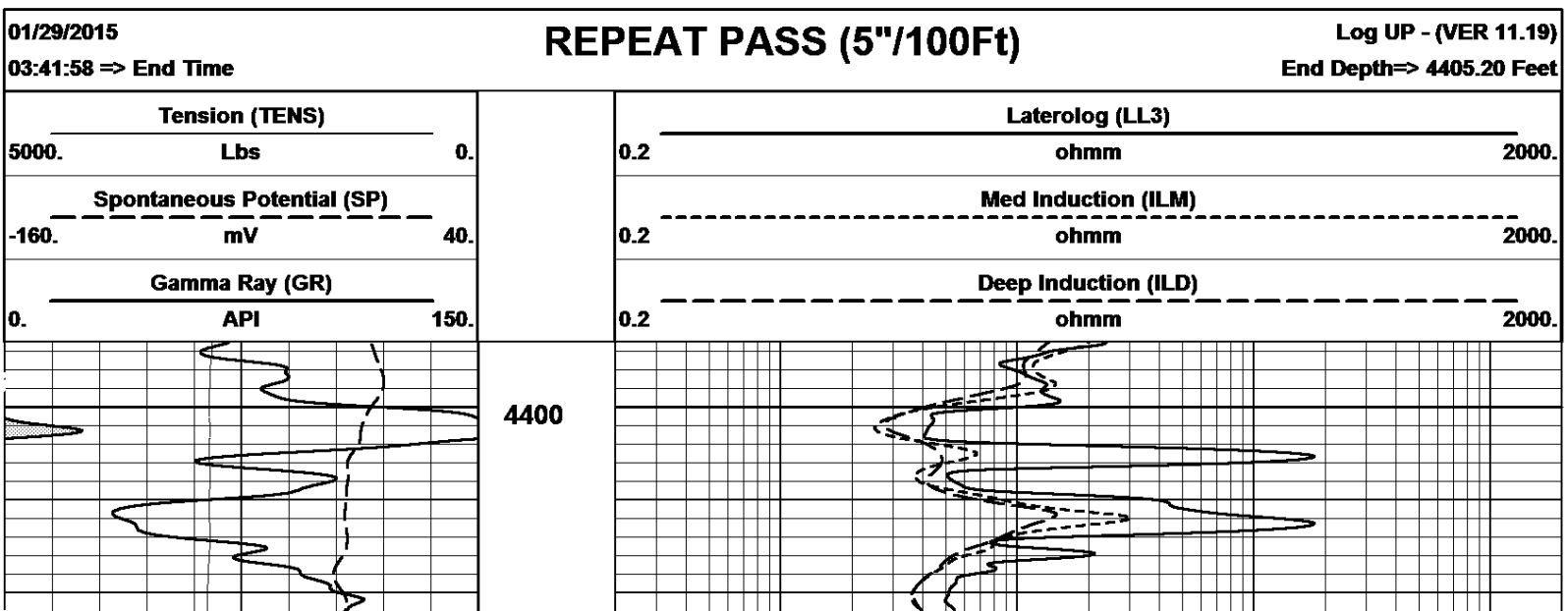
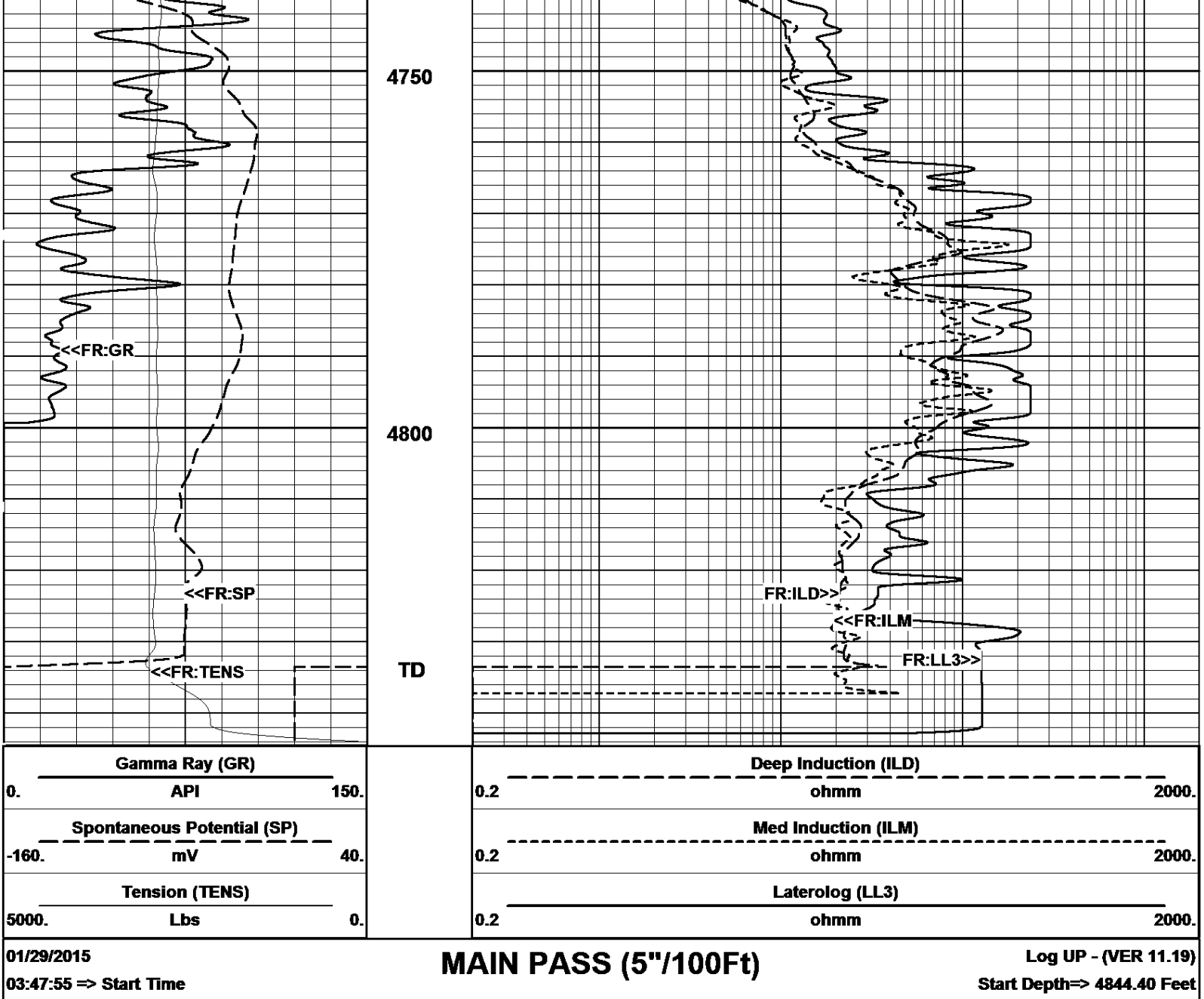


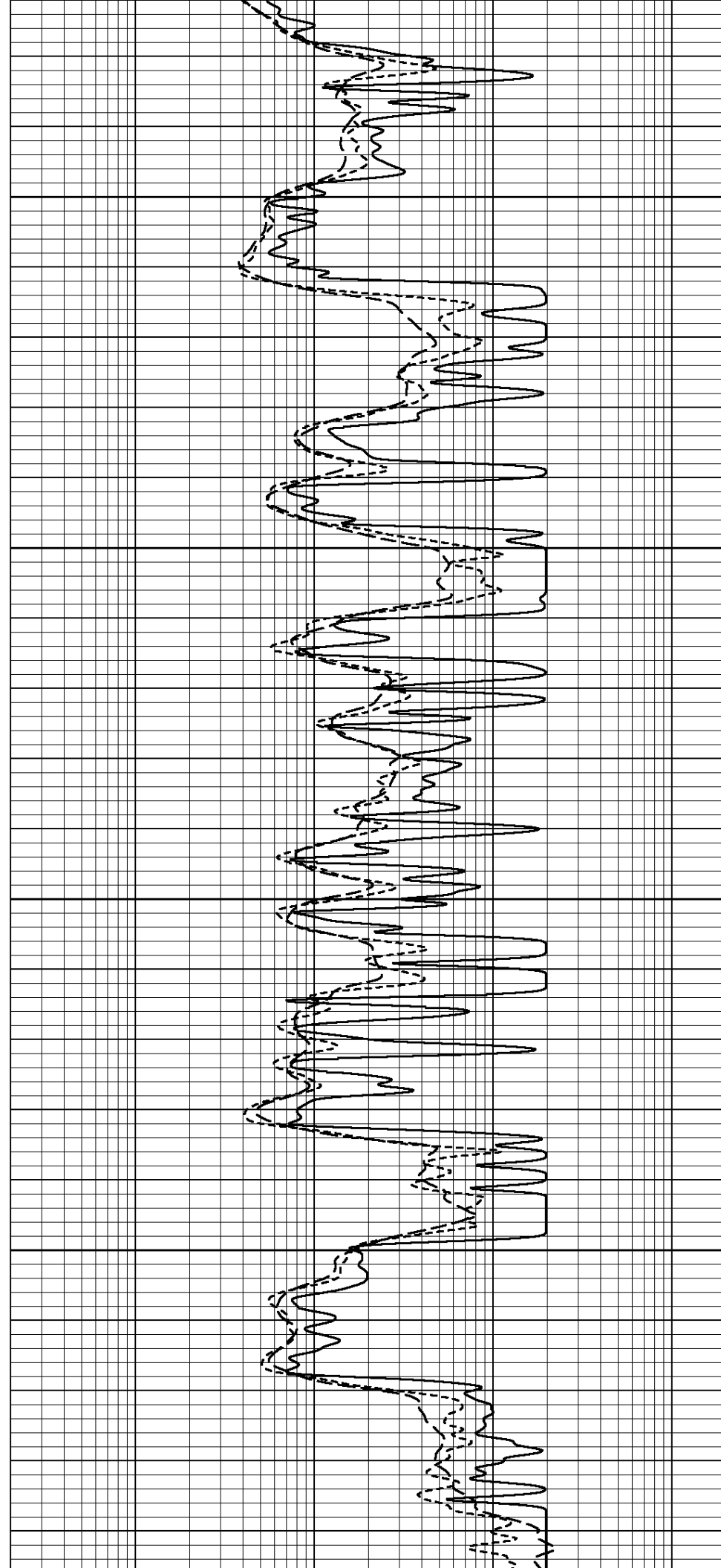
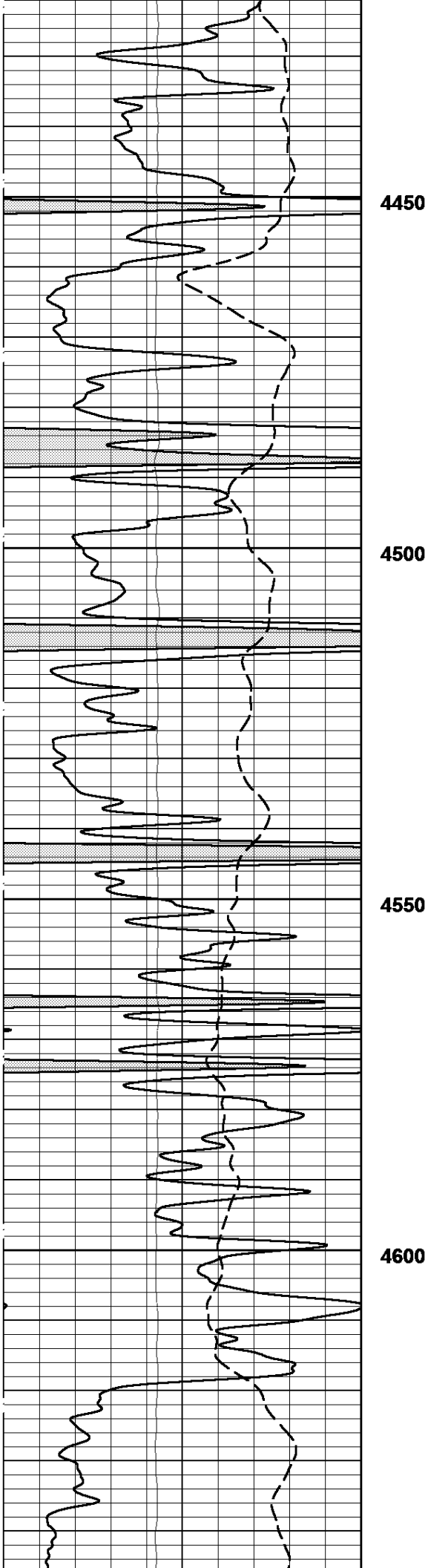


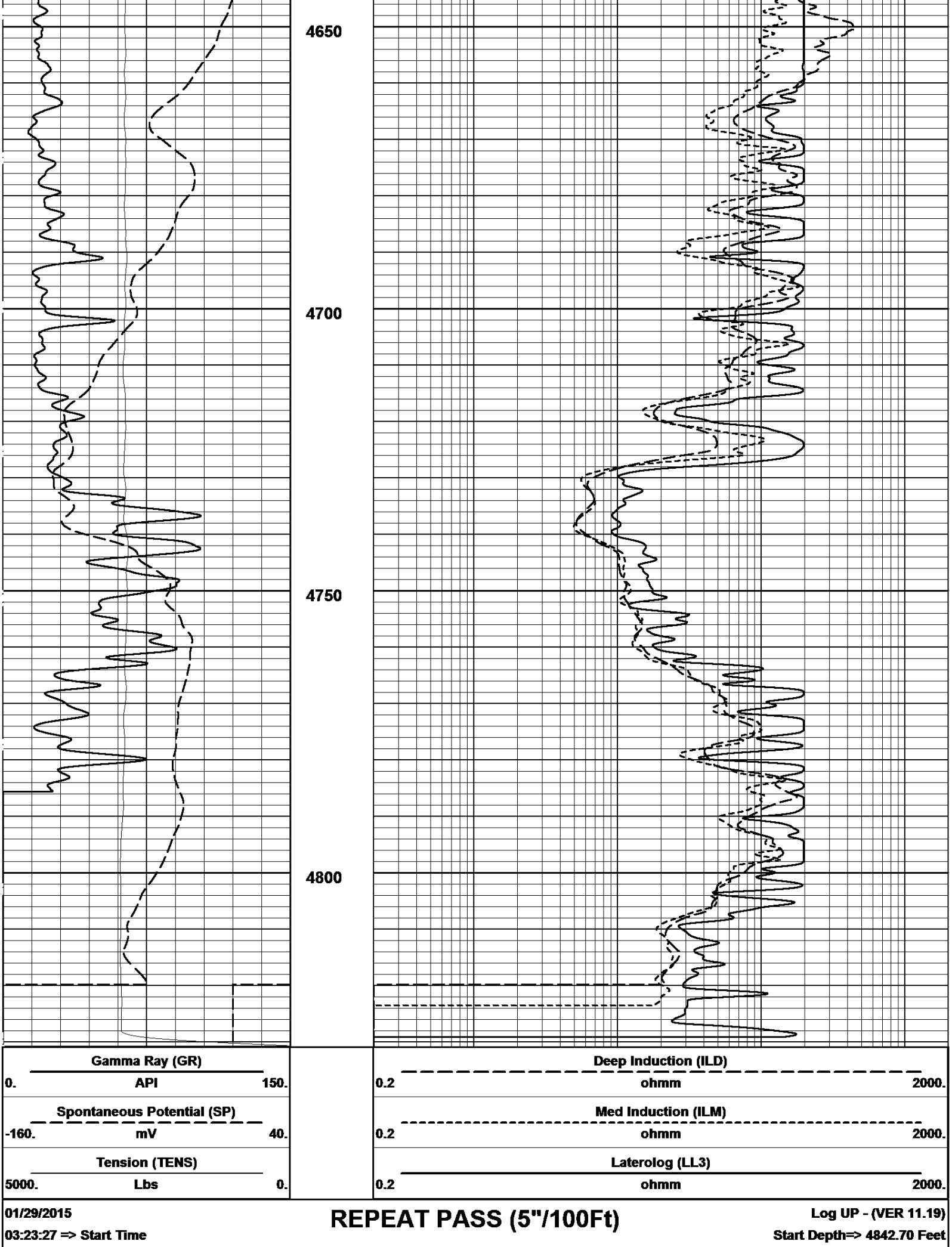








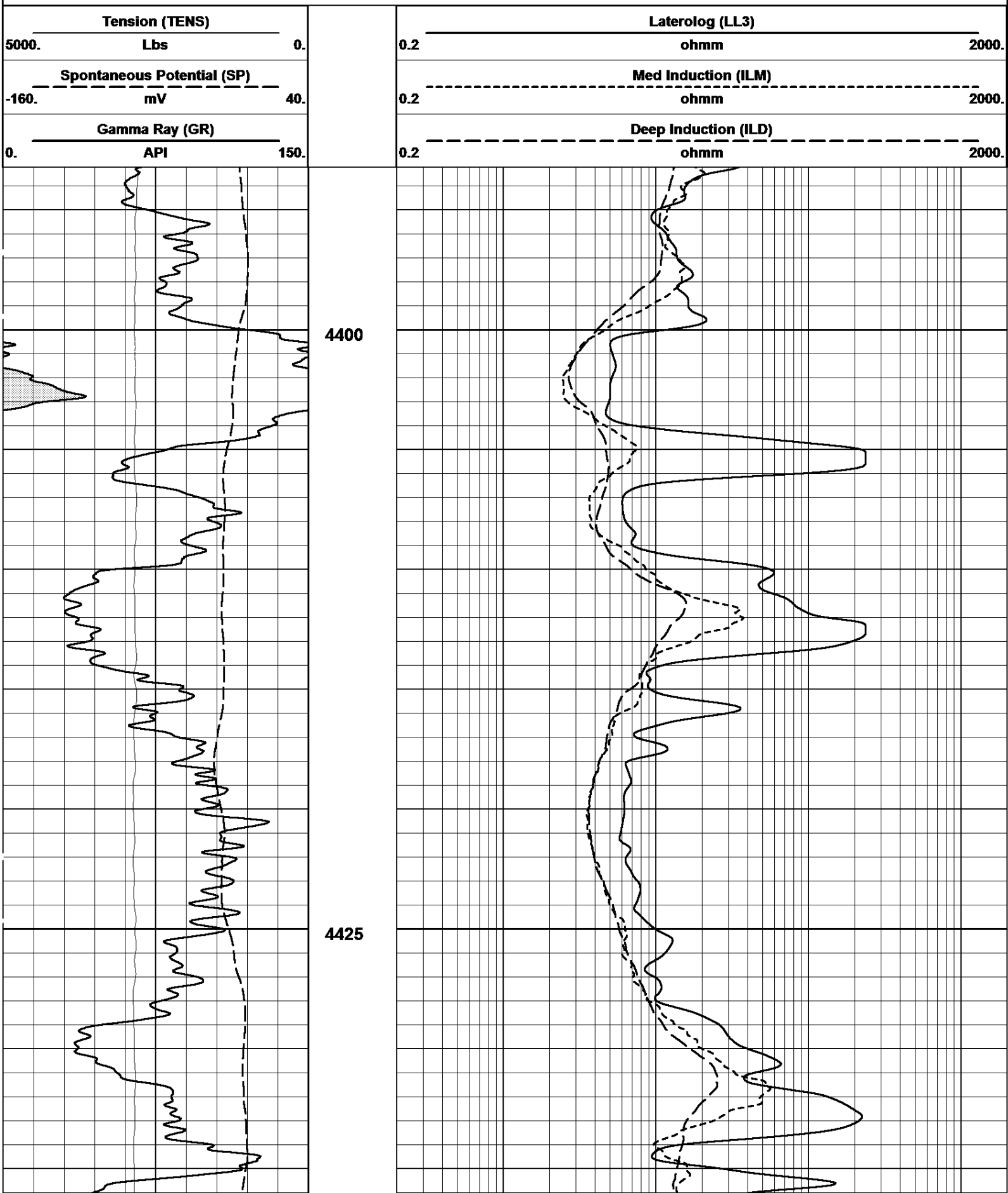


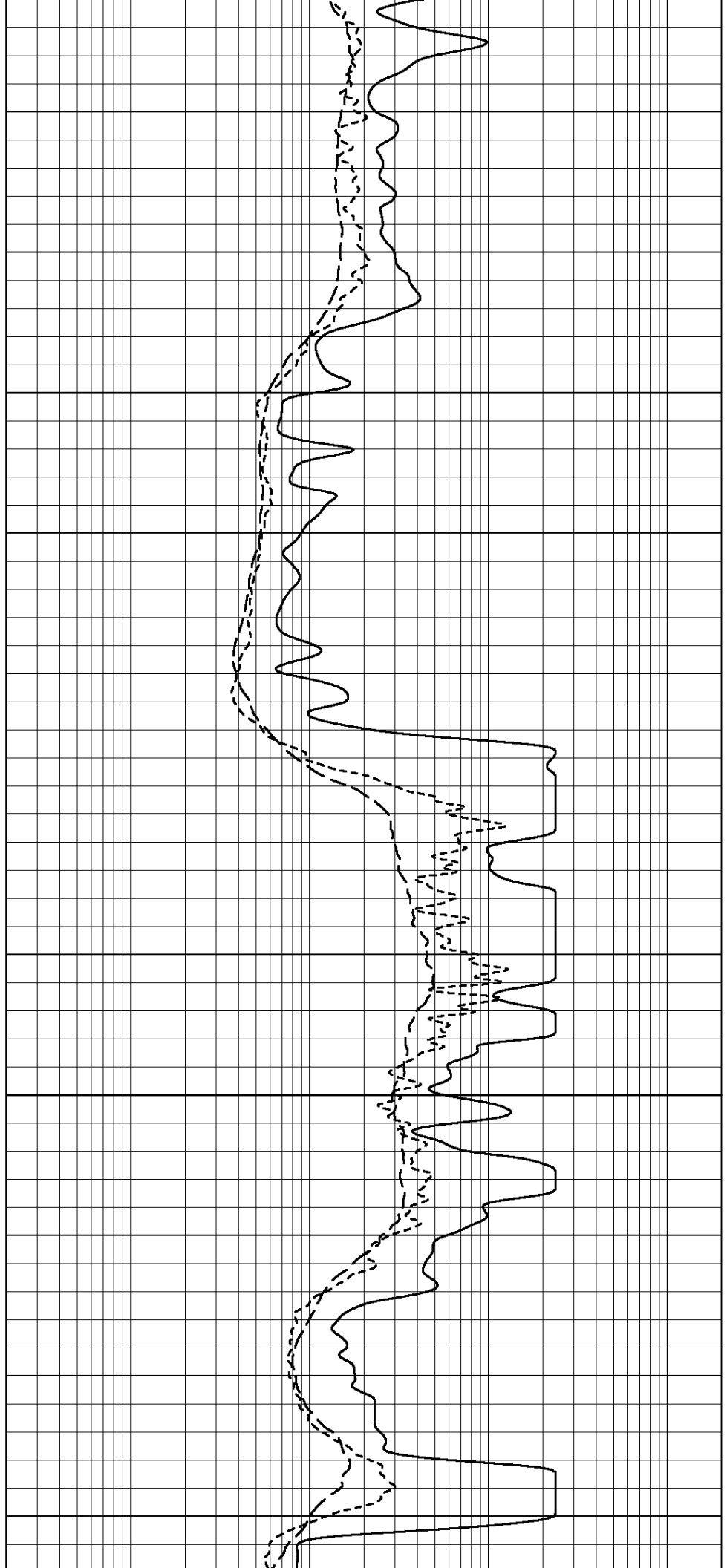
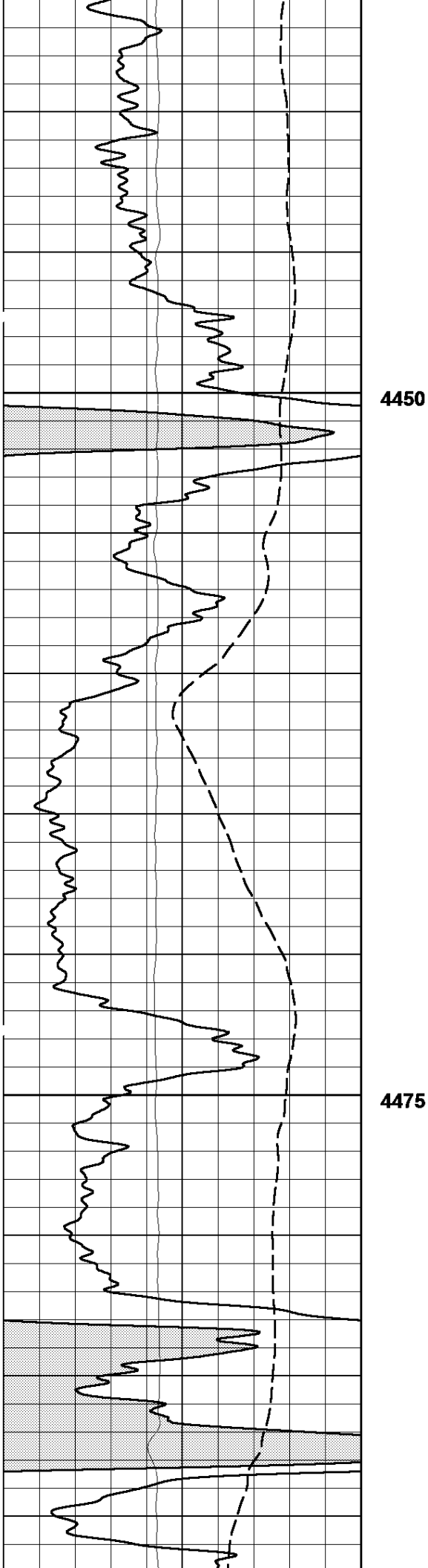


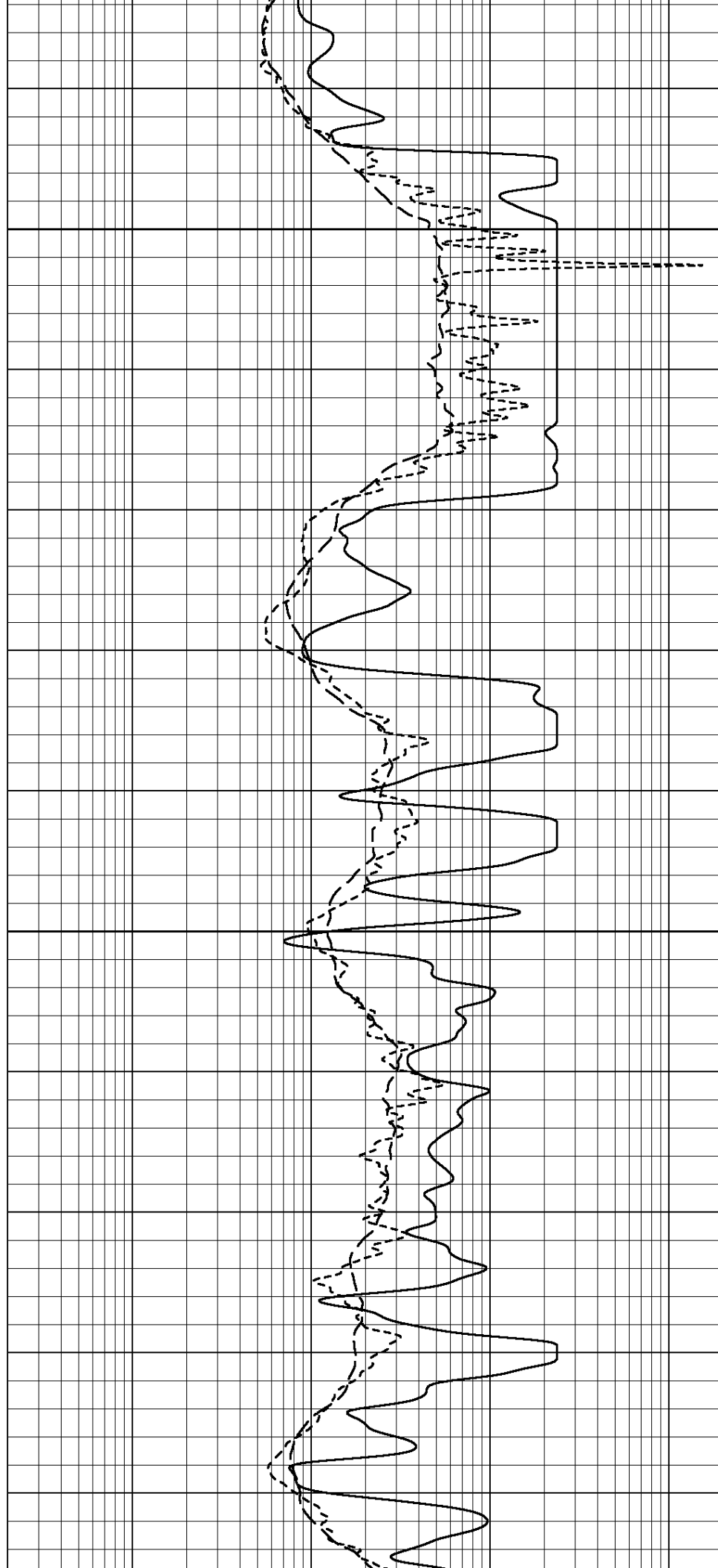
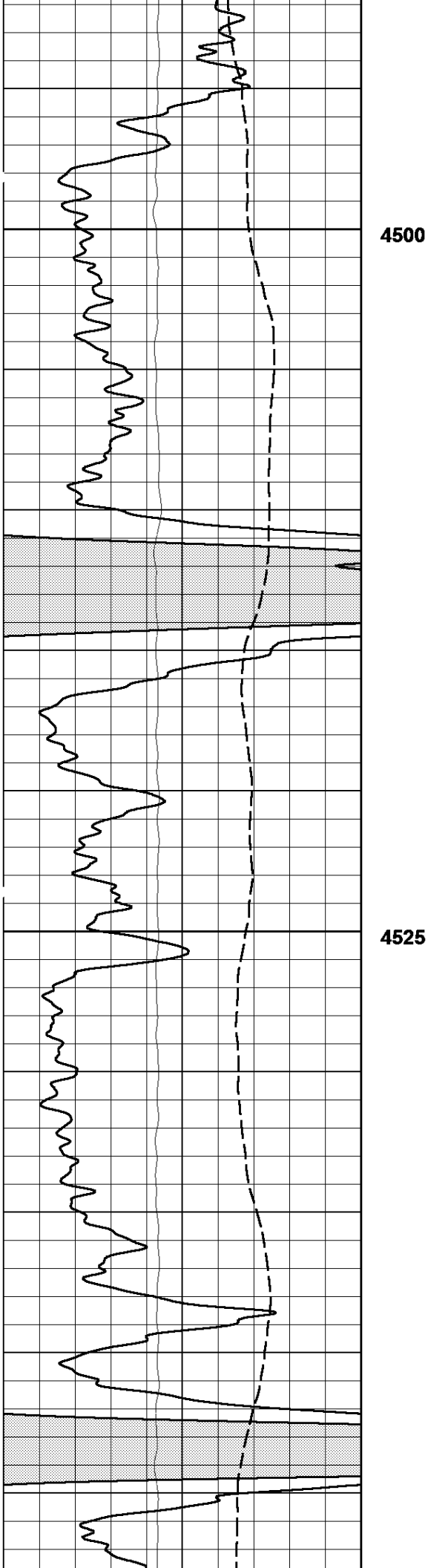
01/29/2015
03:41:58 => End Time

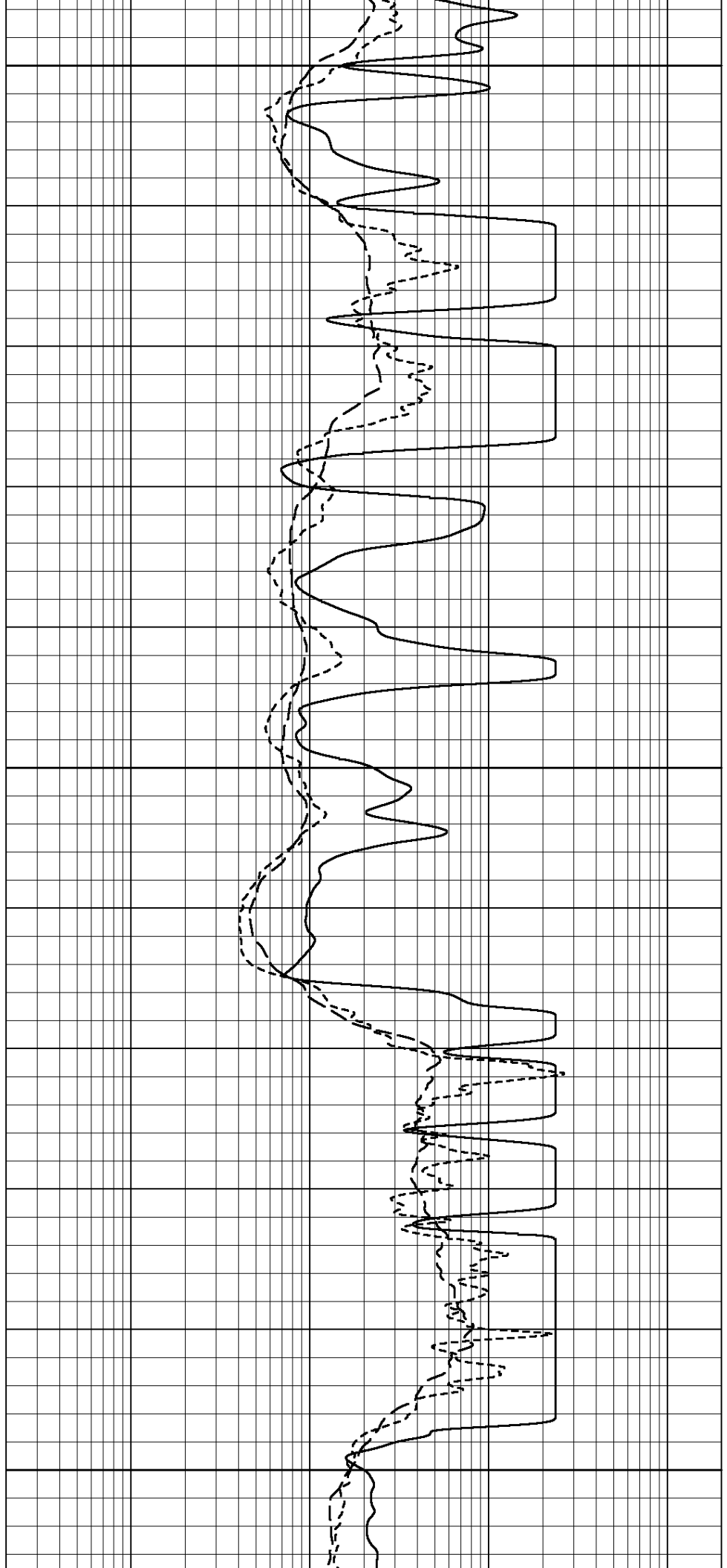
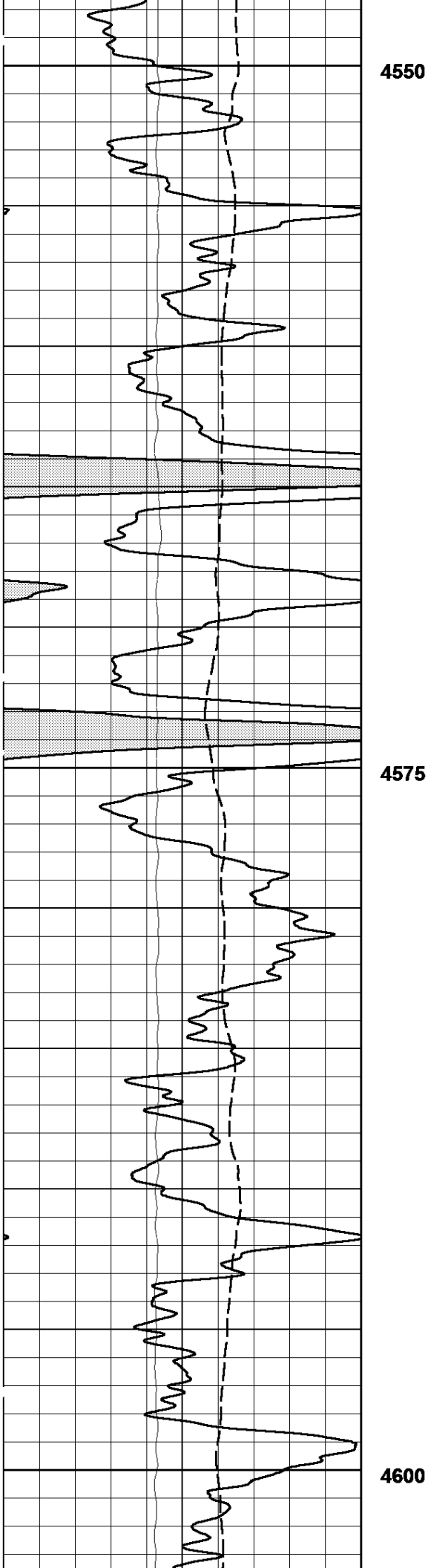
HIGH DEFINITION PASS (20"/100Ft)

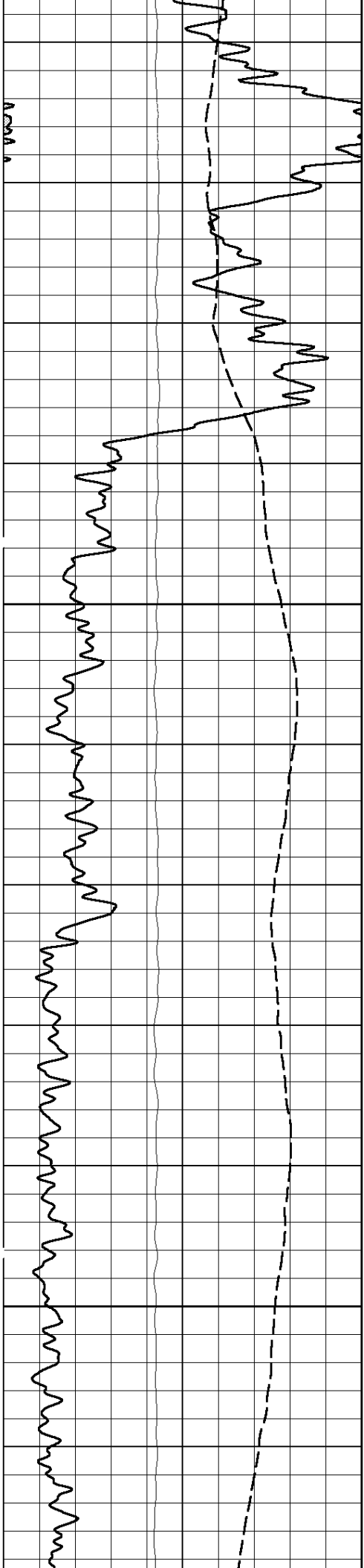
Log UP - (VER 11.19)
End Depth=> 4399.27 Feet





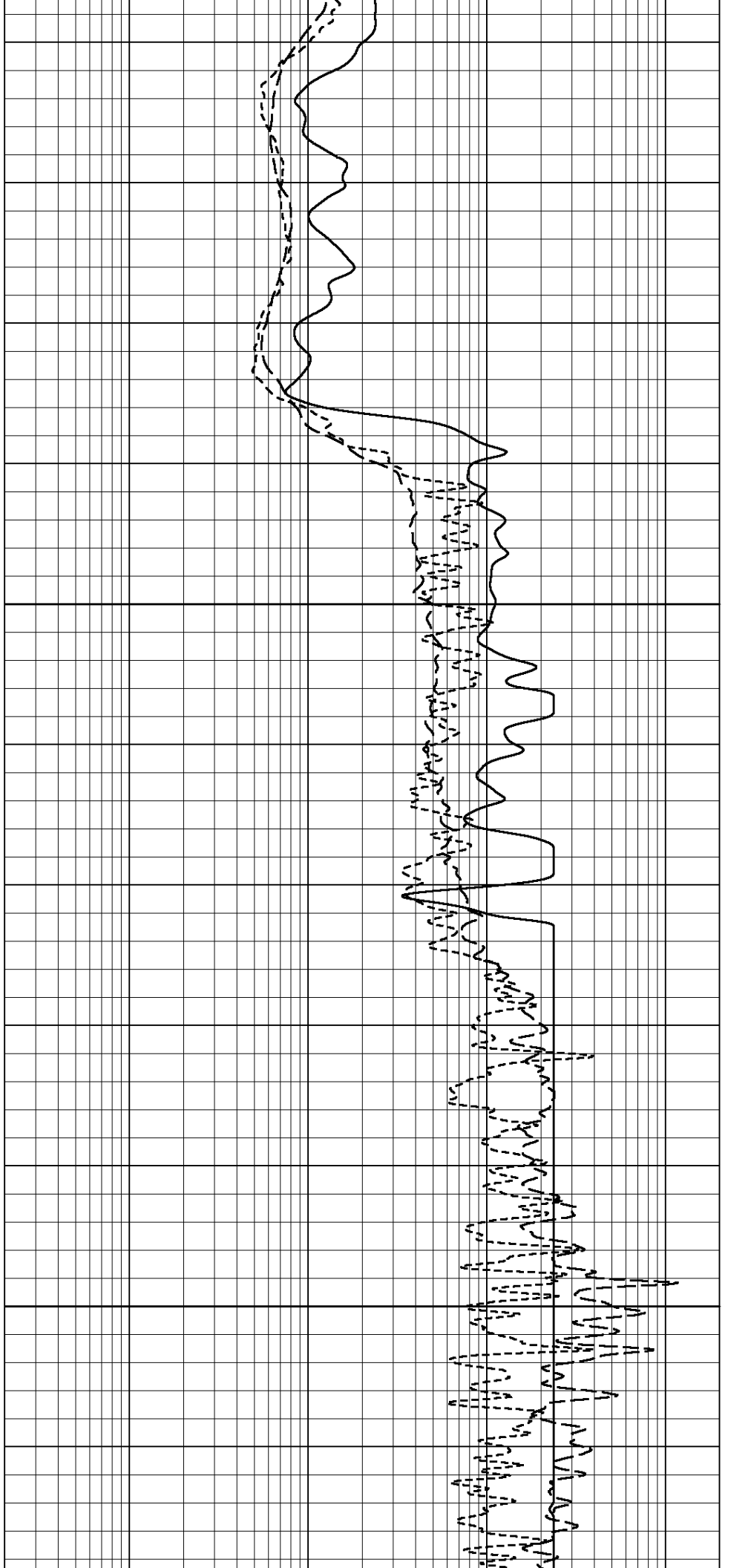


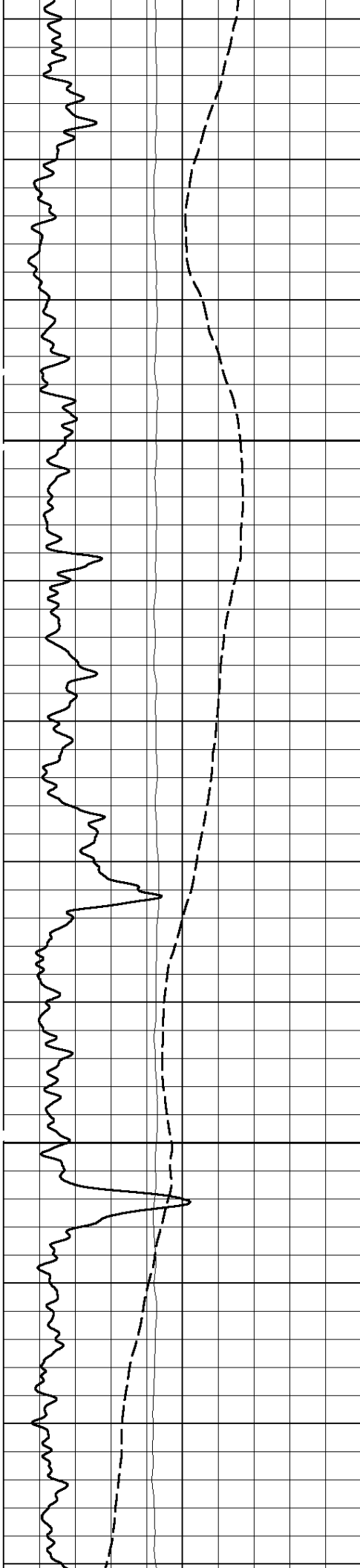




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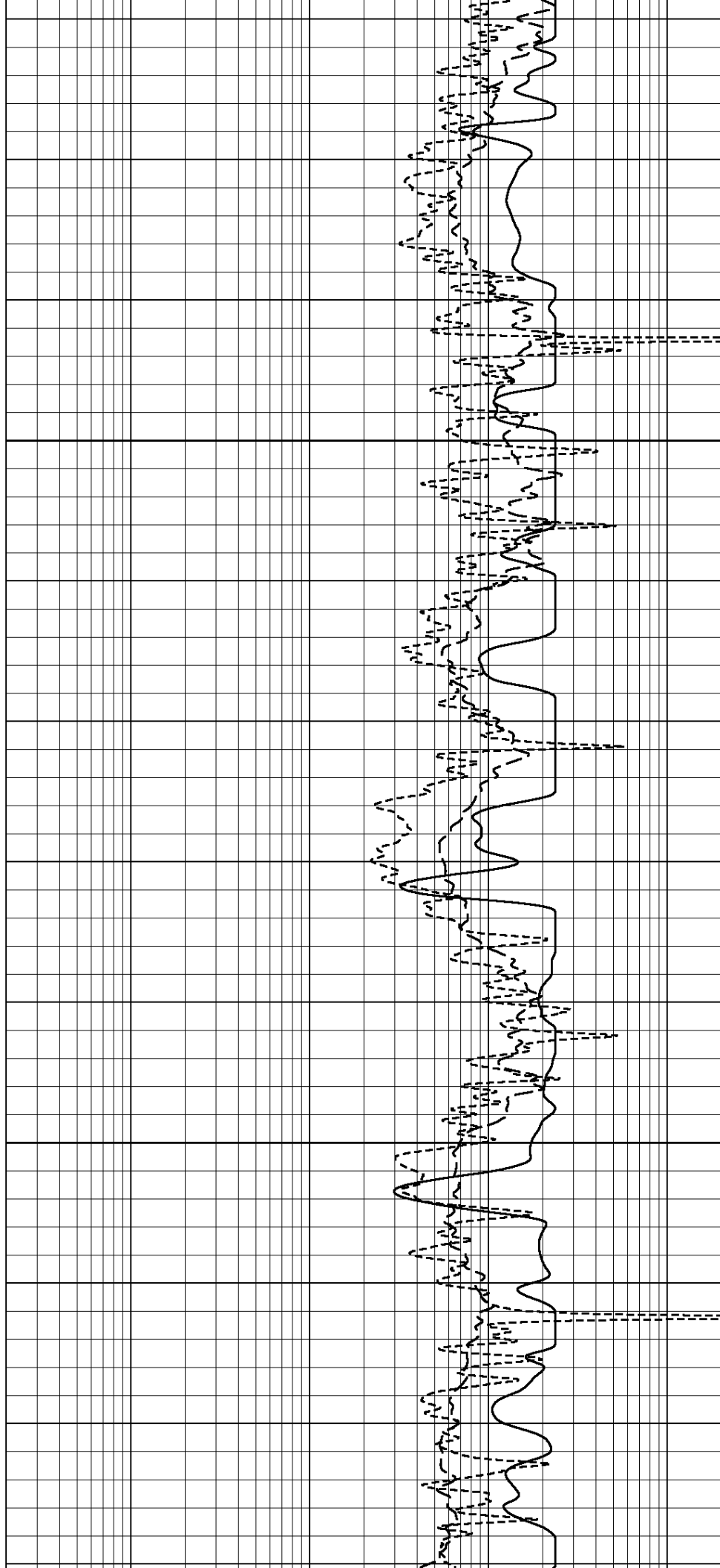
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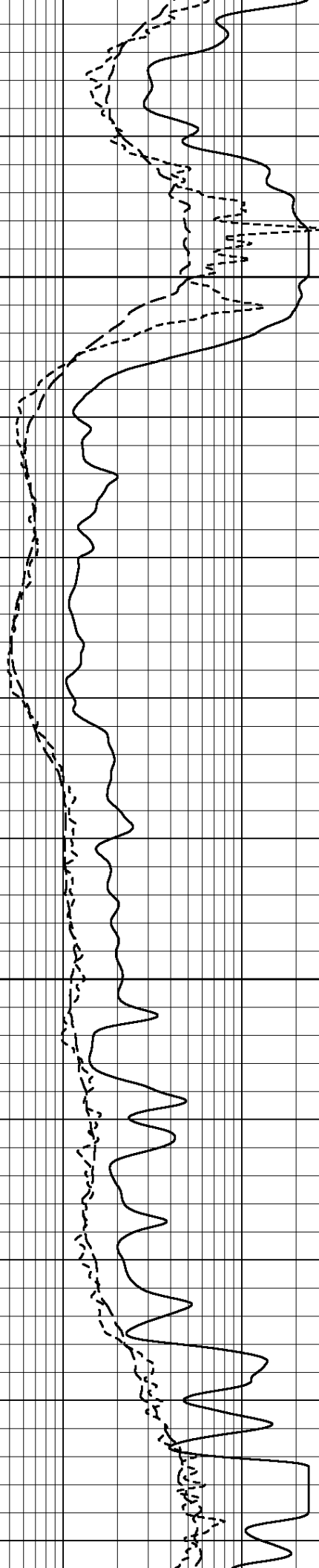
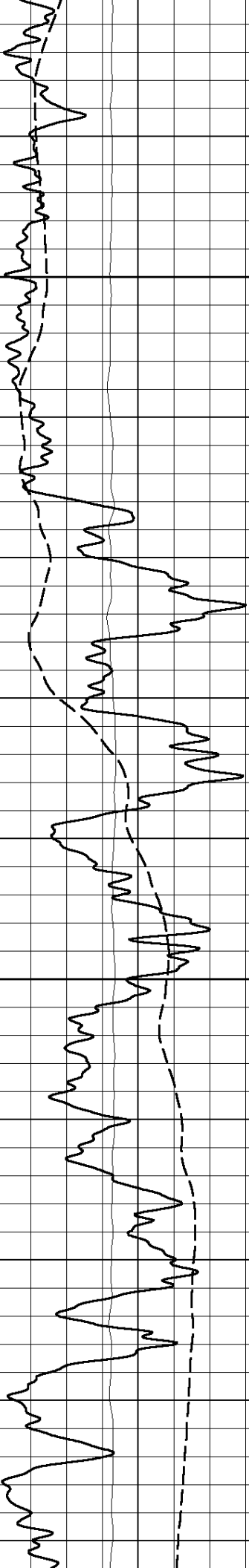
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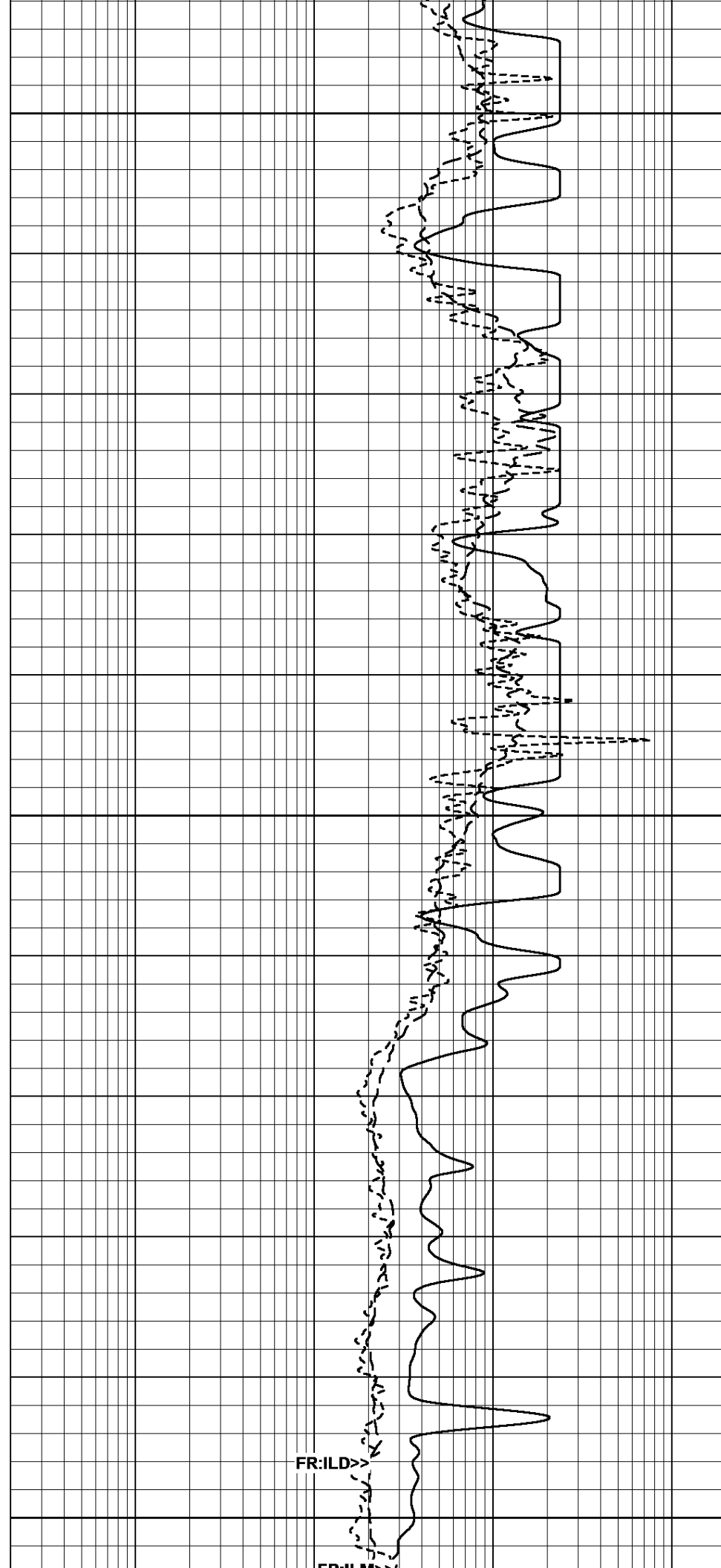
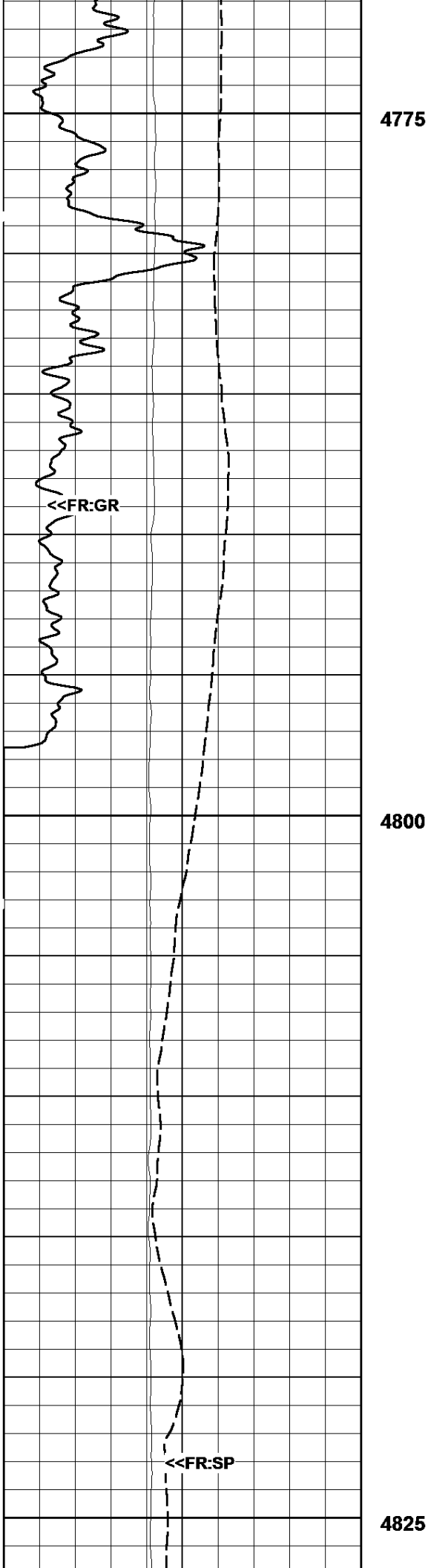
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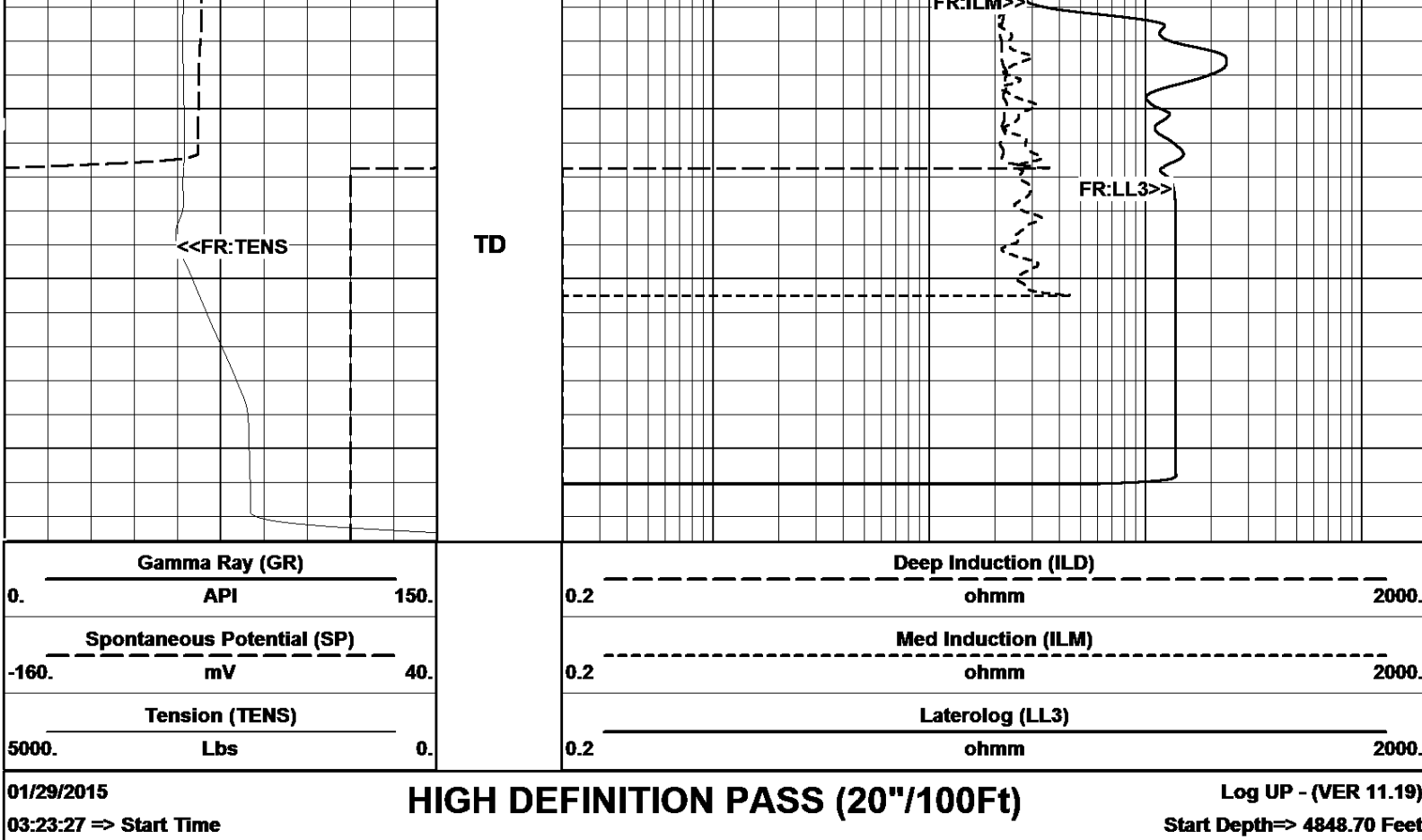


4725

4750







Induction Resistivity / Conductivity Calibrations

TOOL TYPE
SERIAL NUM

Slim Hole Induction
RD1007

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	-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

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SERIAL NUM
BLANKET NUM

RG3015
1A

MASTER CALIBRATIONS

BackGrnd

CalVal: 159.000 API

Gain/Offset

CALIBRATION DATE

CALIBRATION TIME

BASE CALS

78.600 - raw

486.593 - raw

0.390 - gain
0.000 - off

M/D/Y> 12/23/2014

H:M:S> 16:0:12

Company

RED OAK ENERGY, INC.

Well

MATHERS #1-2

Field

WILDCAT

County

LOGAN

State

KANSAS

RECON

DUAL INDUCTION
LATEROLOG - SP
GAMMA RAY

01/29/2015 MAIN PASS (1"/100FT) Log UP - (VER 11.19)

05:43:59 => End Time

End Depth=> 214.50 Feet

Tension (TENS)

5000. Lbs 0.

ontaneous Potential (SP)

-160. mV 40.

Gamma Ray (GR)

0. API 150.

Laterolog (LL3)

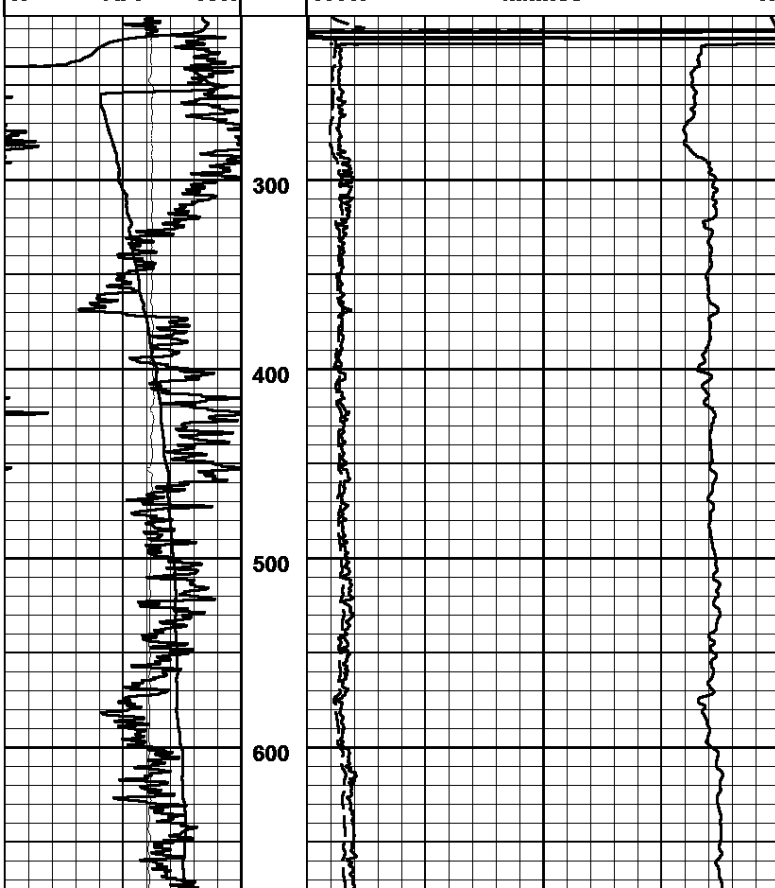
0. ohmm 50.

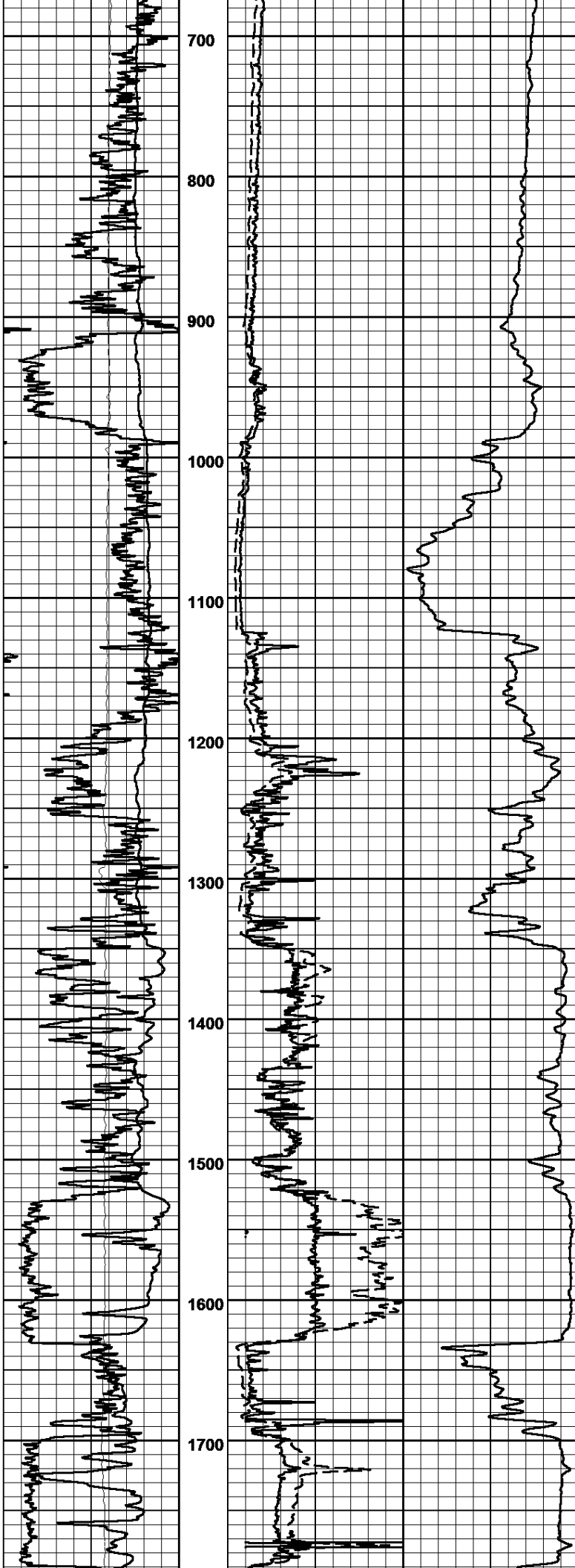
Deep Induction (ILD)

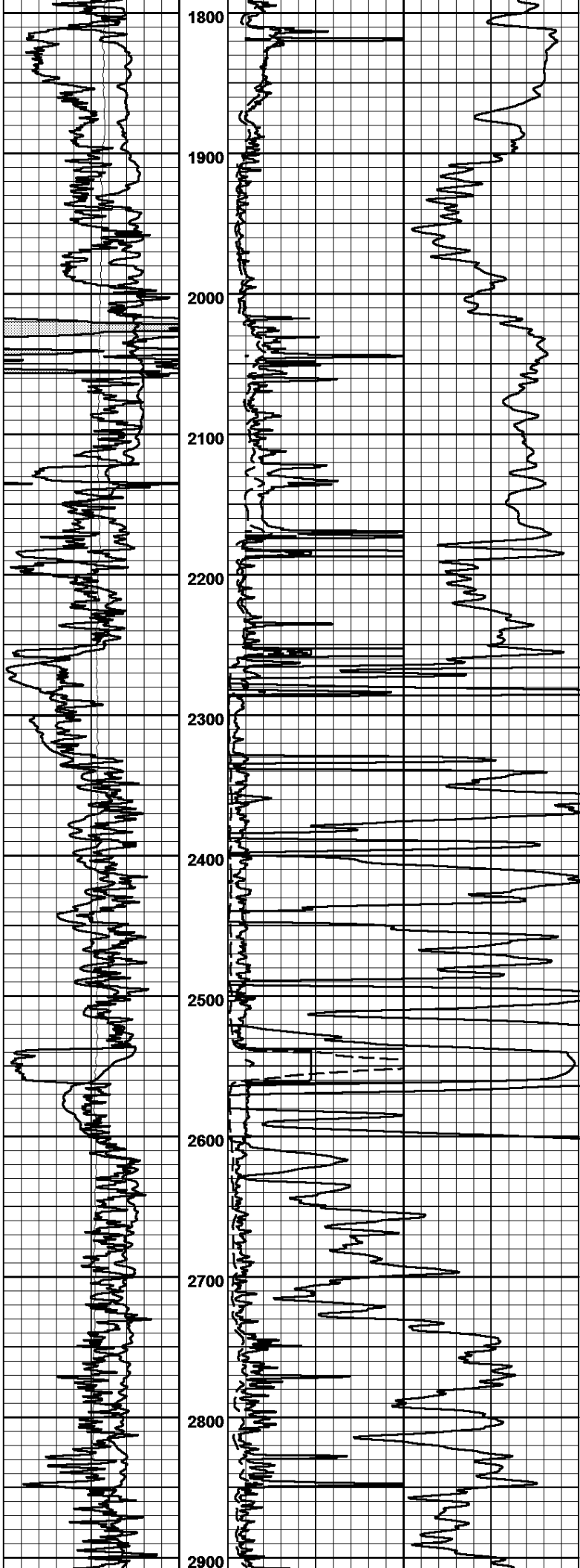
0. ohmm 50.

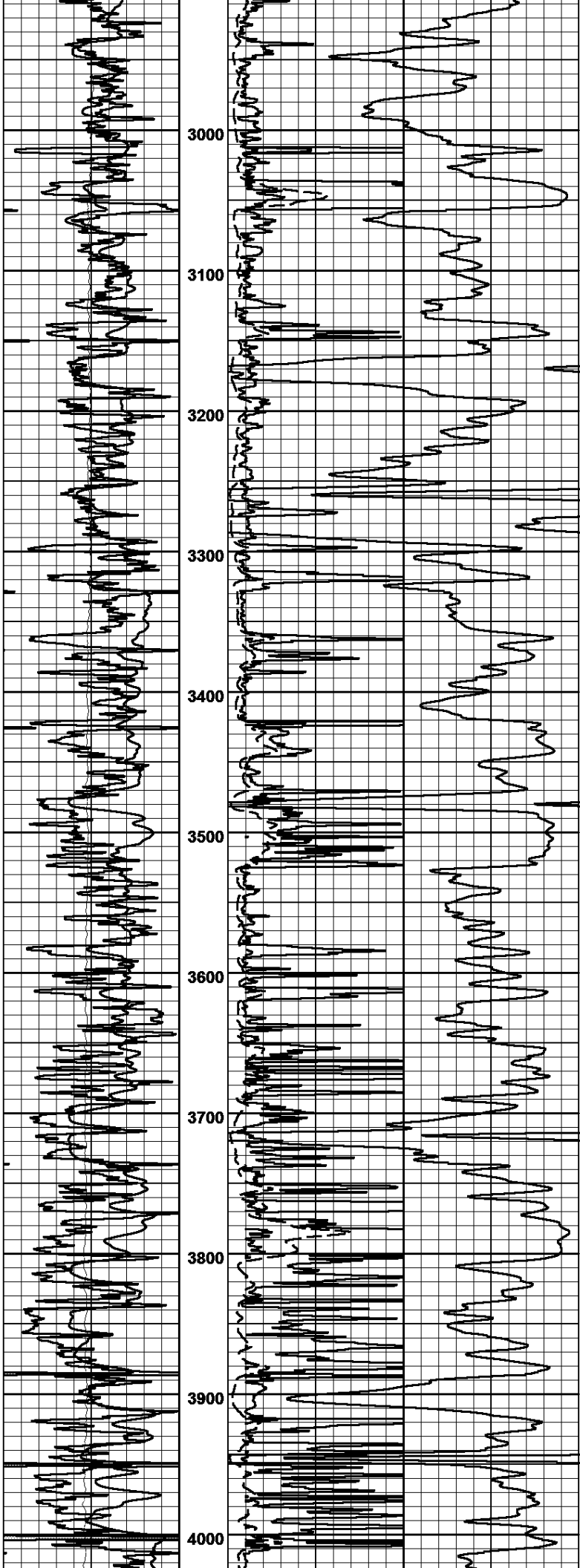
Deep Induction (CILD)

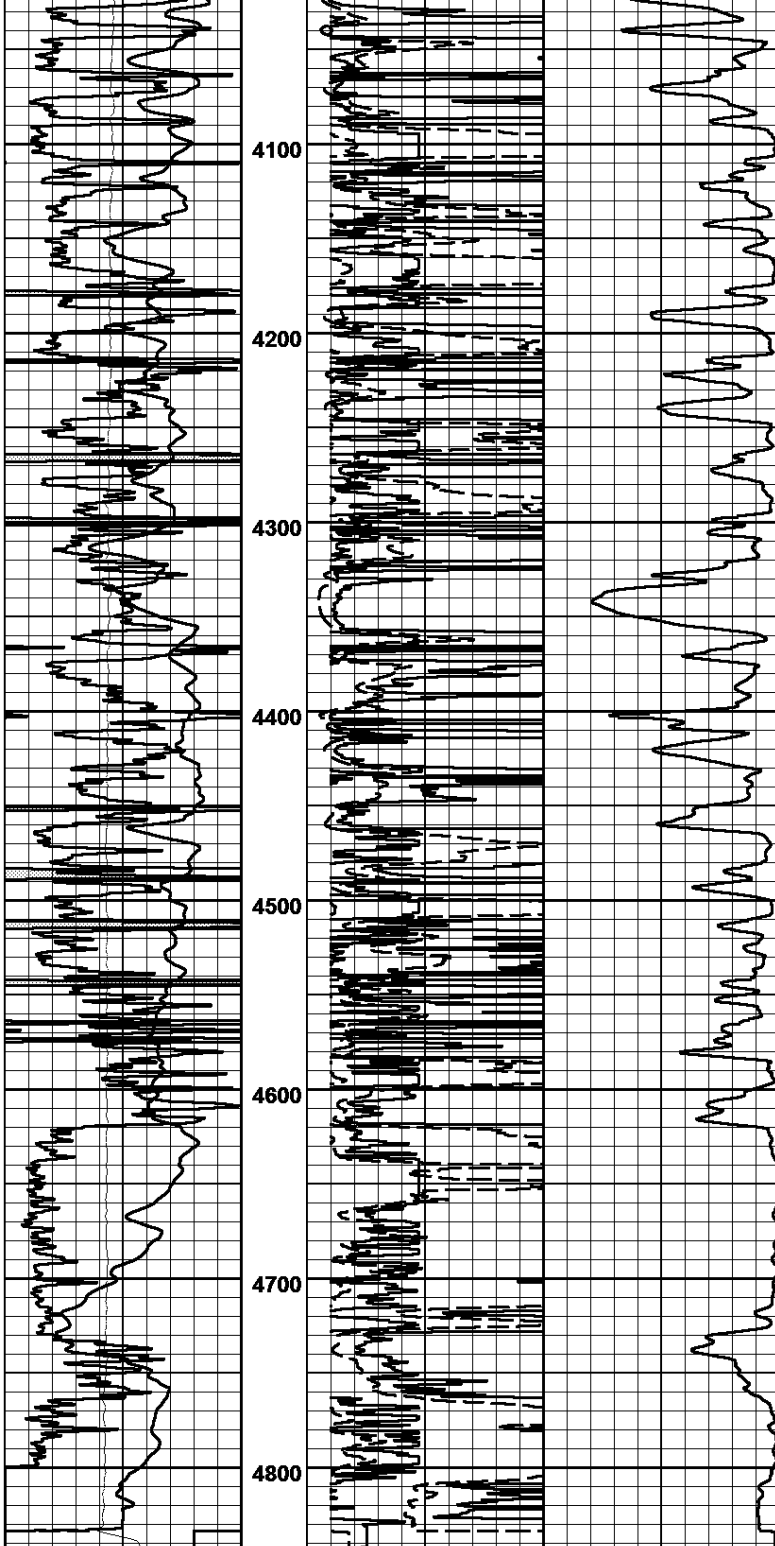
1000. mmhos 0.











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.	

01/29/2015 MAIN PASS (1"/100FT) Log UP - (VER 11.19)
 03:47:55 => Start Time Start Depth=> 4844.00 Feet