

Company VAUGHN GOOD OIL COMPANY  
Well NUSSER #5-16  
Field S.E. HARDTNER  
County BARBER  
State KANSAS

**RECON**

DUAL INDUCTION  
LATEROLOG - SP  
GAMMA RAY

| SEC                                  | TWP | RGE | OTHER SERVICES: |           |
|--------------------------------------|-----|-----|-----------------|-----------|
| 16                                   | 03S | 12W | LDT             | CNL       |
| Location. 1290' FNL & 1155' FWL      |     |     | XY CALIPER      | MICROLOG  |
| SURF. SAME                           |     |     | ELEVATIONS      |           |
| AP# 015-007-24061-0000               |     |     | K.B. 1414       | G.L. 1401 |
| Permanent Datum Ground Level         |     |     | D.F. 1412       |           |
| Log Measured From Kelly Bushing      |     |     |                 |           |
| Drilling Measured From Kelly Bushing |     |     |                 |           |

|                          |              |                   |
|--------------------------|--------------|-------------------|
| Date                     | 15-SEP-2013  |                   |
| Run No.                  | ONE          |                   |
| TD Driller               | 5675         | ft                |
| TD RECON                 | 5669         | ft                |
| Bot Logged Interval      | 5668         | ft                |
| Top Logged Interval      | 550          | ft                |
| Casing Depth Driller     | 8 5/8        | in.               |
| Casing Depth RECON       | 8 5/8        | in.               |
| Bit Size                 | 7 7/8        | in.               |
| Drilling Fluid Type      | CHEM/GEL     |                   |
| Density                  | 9.4          | ppg               |
| Viscosity                | 8.8          | cm/30min          |
| Fluid Loss               | PH           | 10.5 strip        |
| Source Of Sample         | Flowline     |                   |
| RM @ Measured Temp       | 0.690        | Ohmm              |
| RMF @ Measured Temp      | 0.517        | Ohmm              |
| RMC @ Measured Temp      | 0.862        | Ohmm              |
| RM @ MRT                 | 0.395        | Ohmm              |
| Max Recorded Temp        | 136          | DegF              |
| Time Drilling Stopped    | 15-SEP-2013  | 04:00             |
| Time Circulation Stopped | 15-SEP-2013  | 09:00             |
| Time Logger On Bottom    | 15-SEP-2013  | 13:42             |
| Unit Num                 | S409         | OKLAHOMA CITY, OK |
| Recorded By              | H. GARCIA    |                   |
| Witnessed By             | M.R. V. GOOD |                   |

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

#### 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 - 246.7, BOTTOM MARK - 5550.6  
CNL/LDT LOGGED MATRIX: 2.71 g/cc.

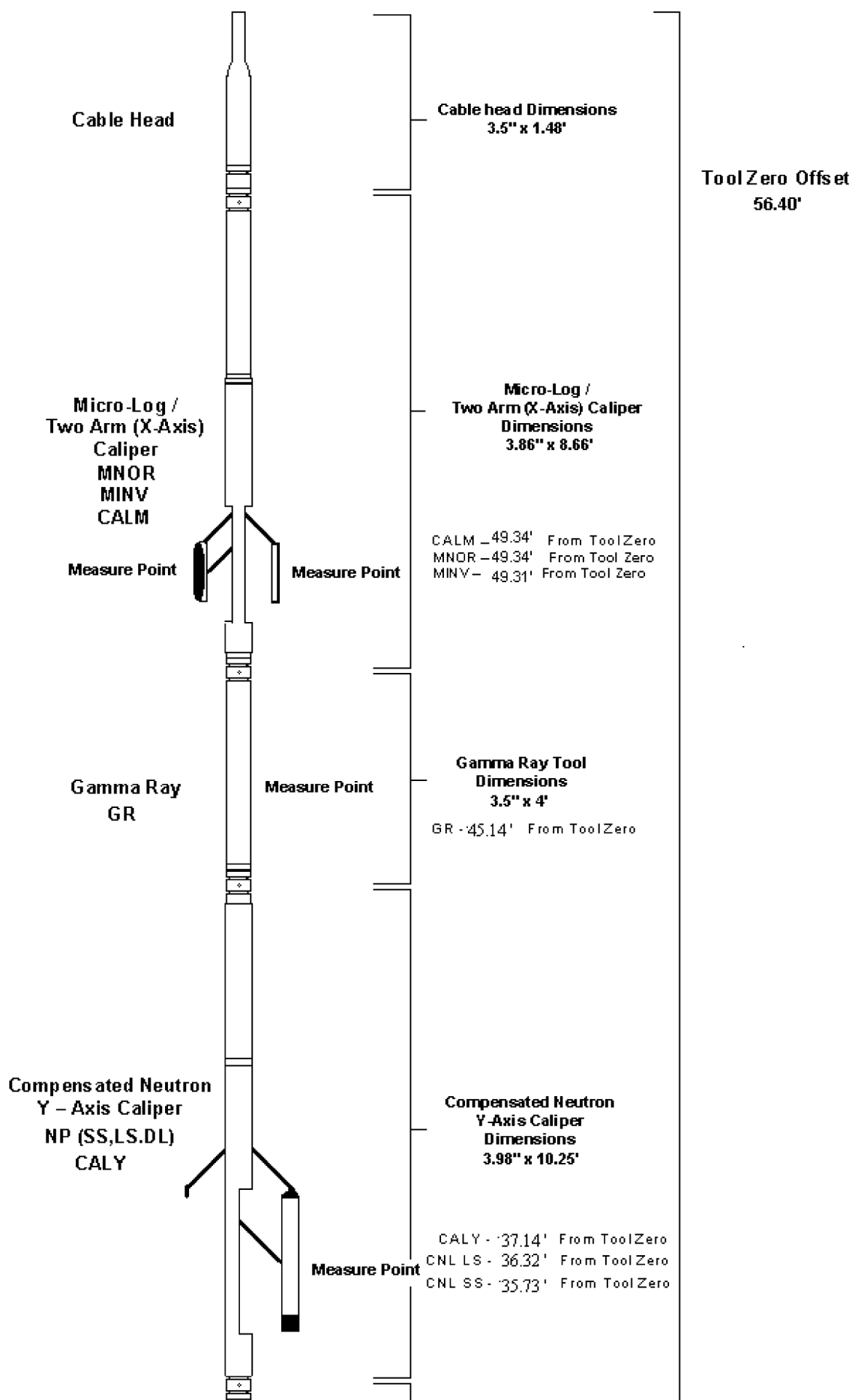
AHV CALCULATED ON 5.5" PROD. CASING

CHLORIDES: 6000 mg/l  
LCM: 8 lb/bbl

THANK YOU FOR USING RECON PETROTECHNOLOGIES LTD.

CREW: M. CALLENTINE

**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

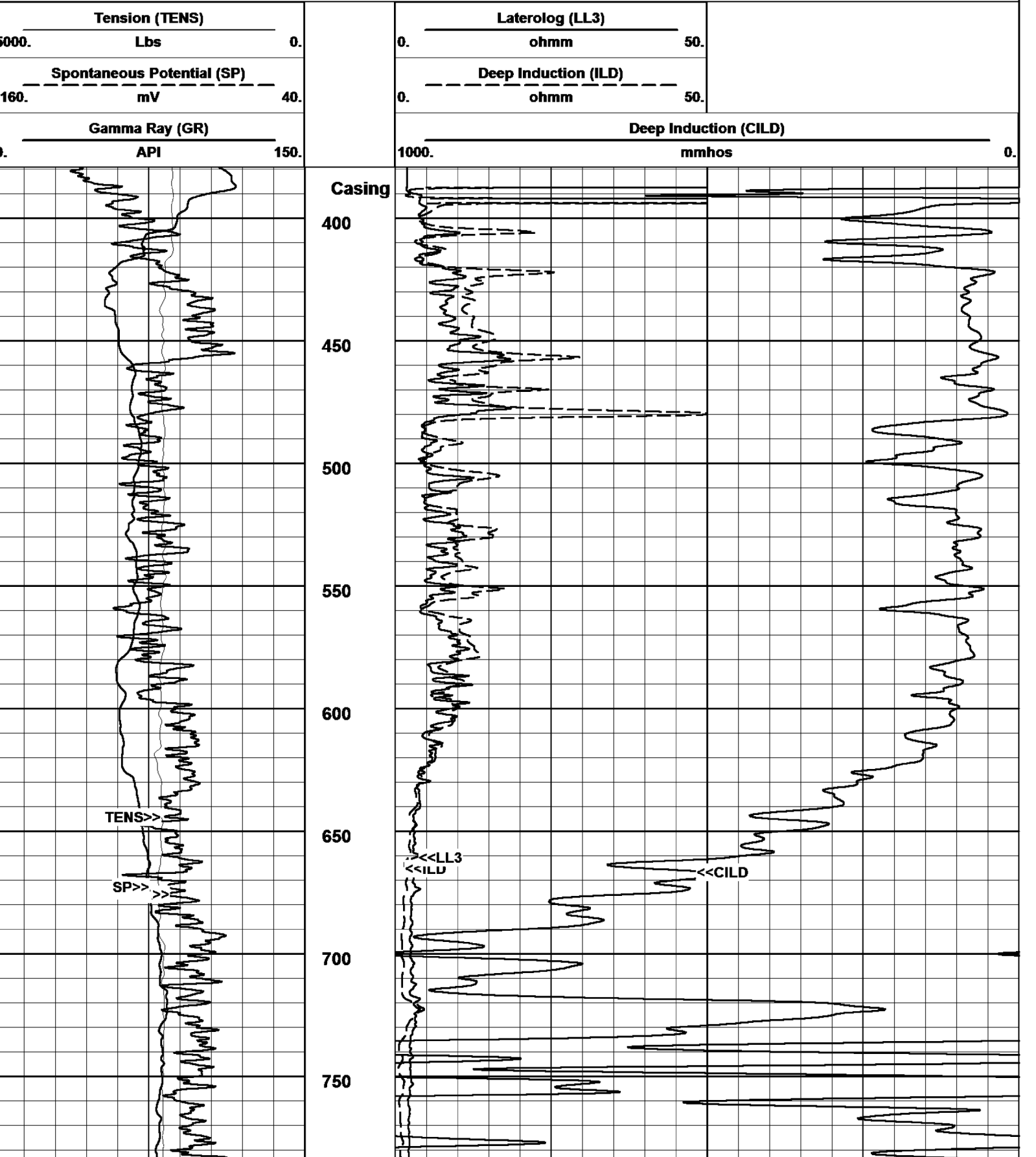
**Tool First Reading  
Point**

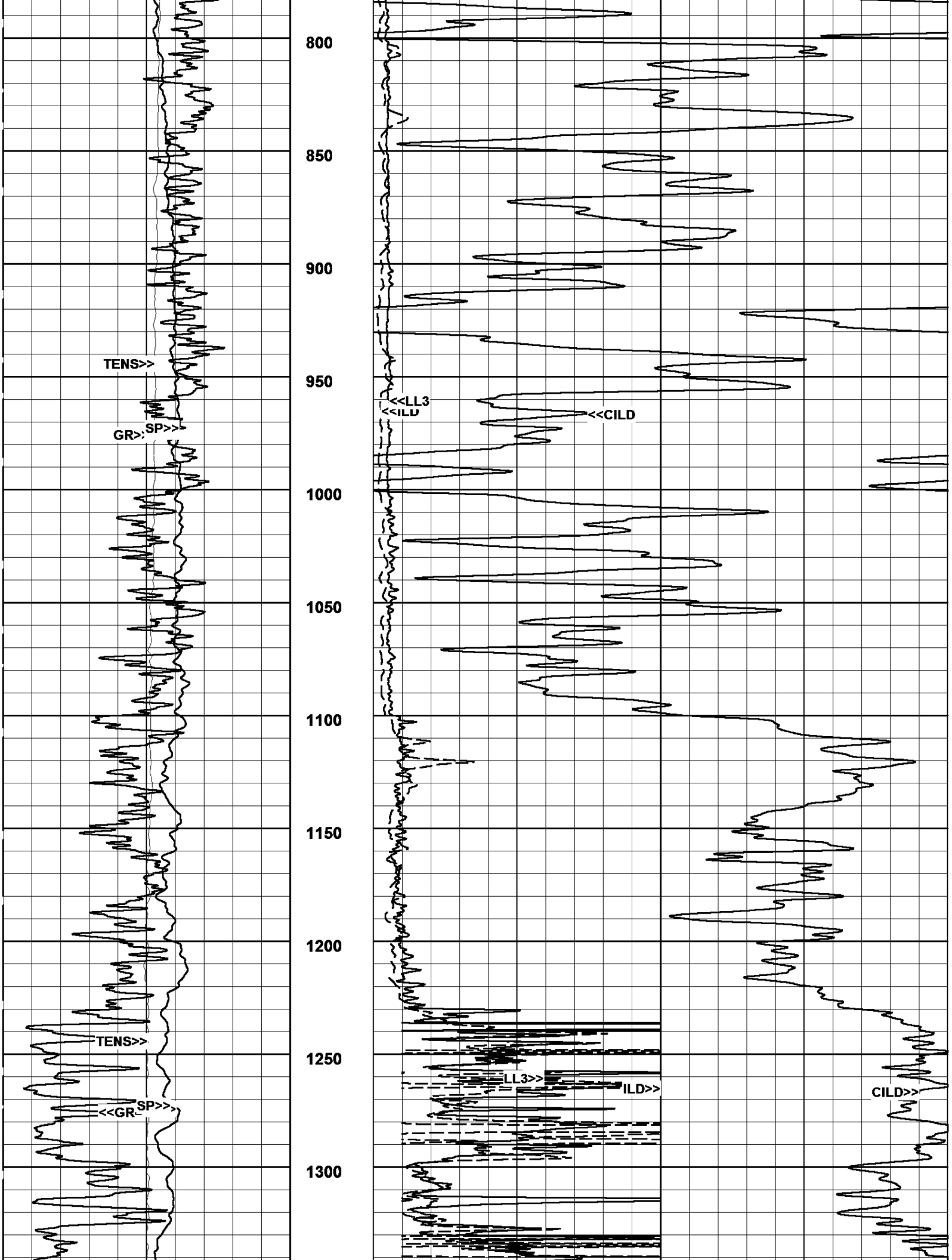
**Laterolog 3  
Measure Point**

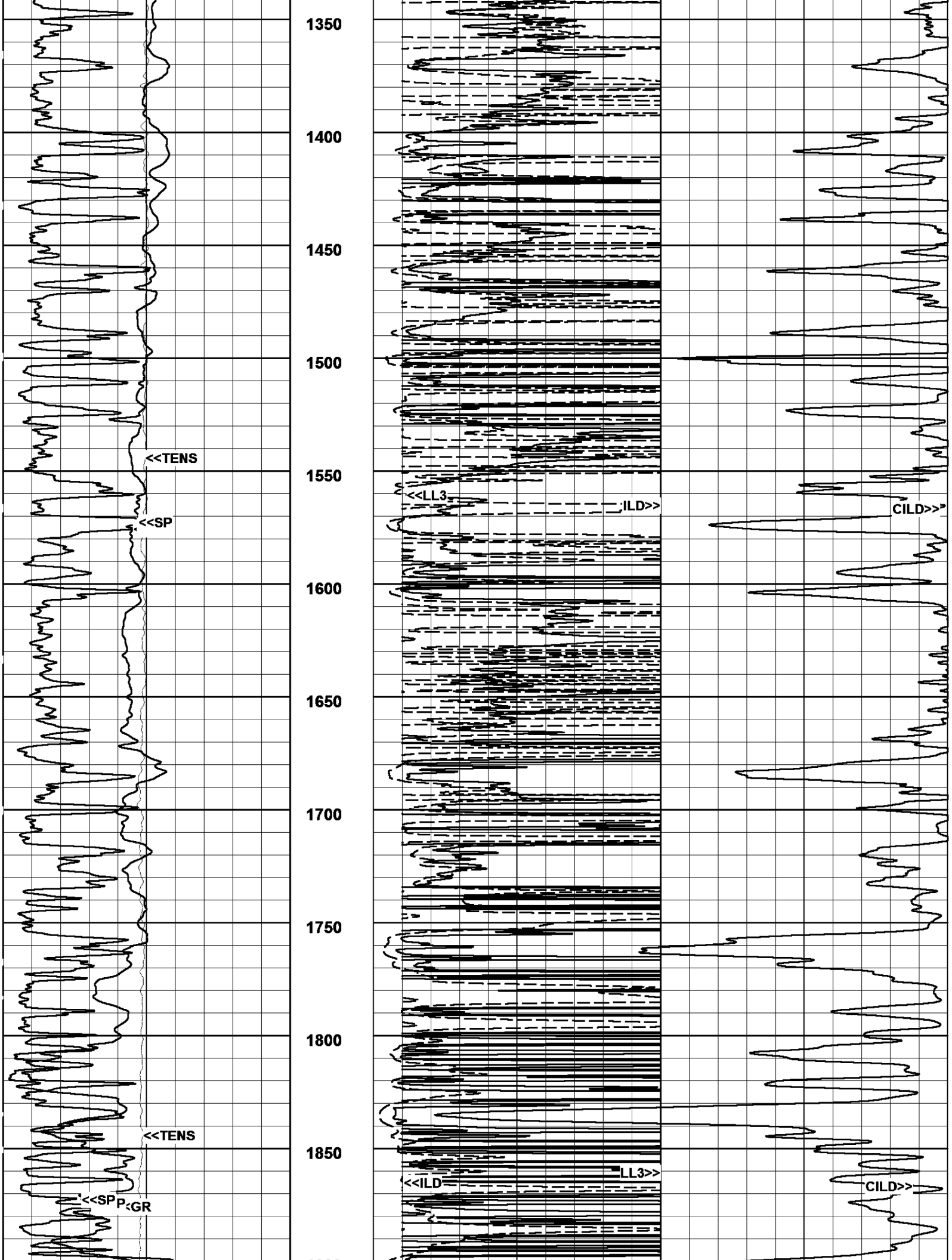
LL3 - 1.67' From ToolZero

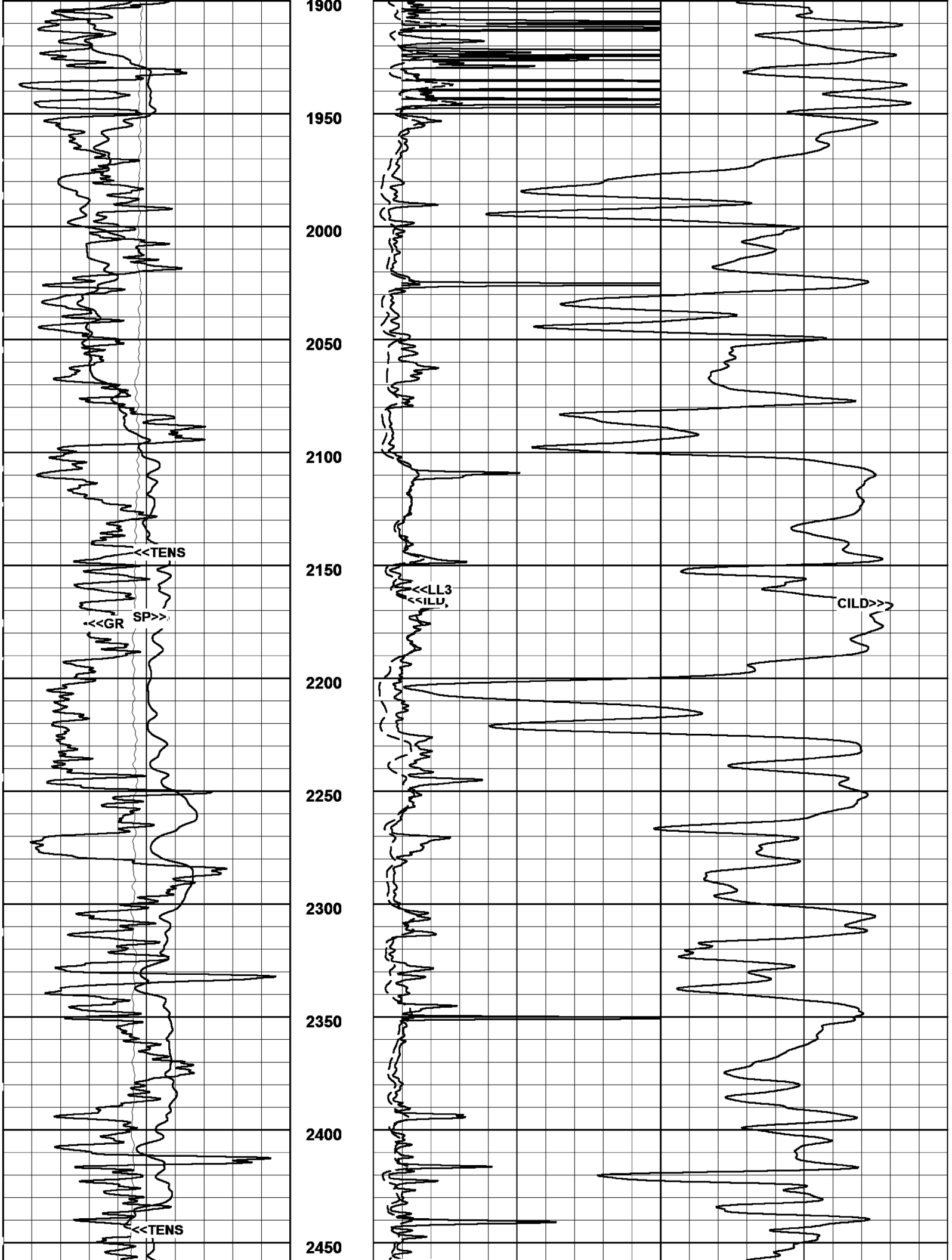
**Tool Zero Point  
(Tool Bottom)**

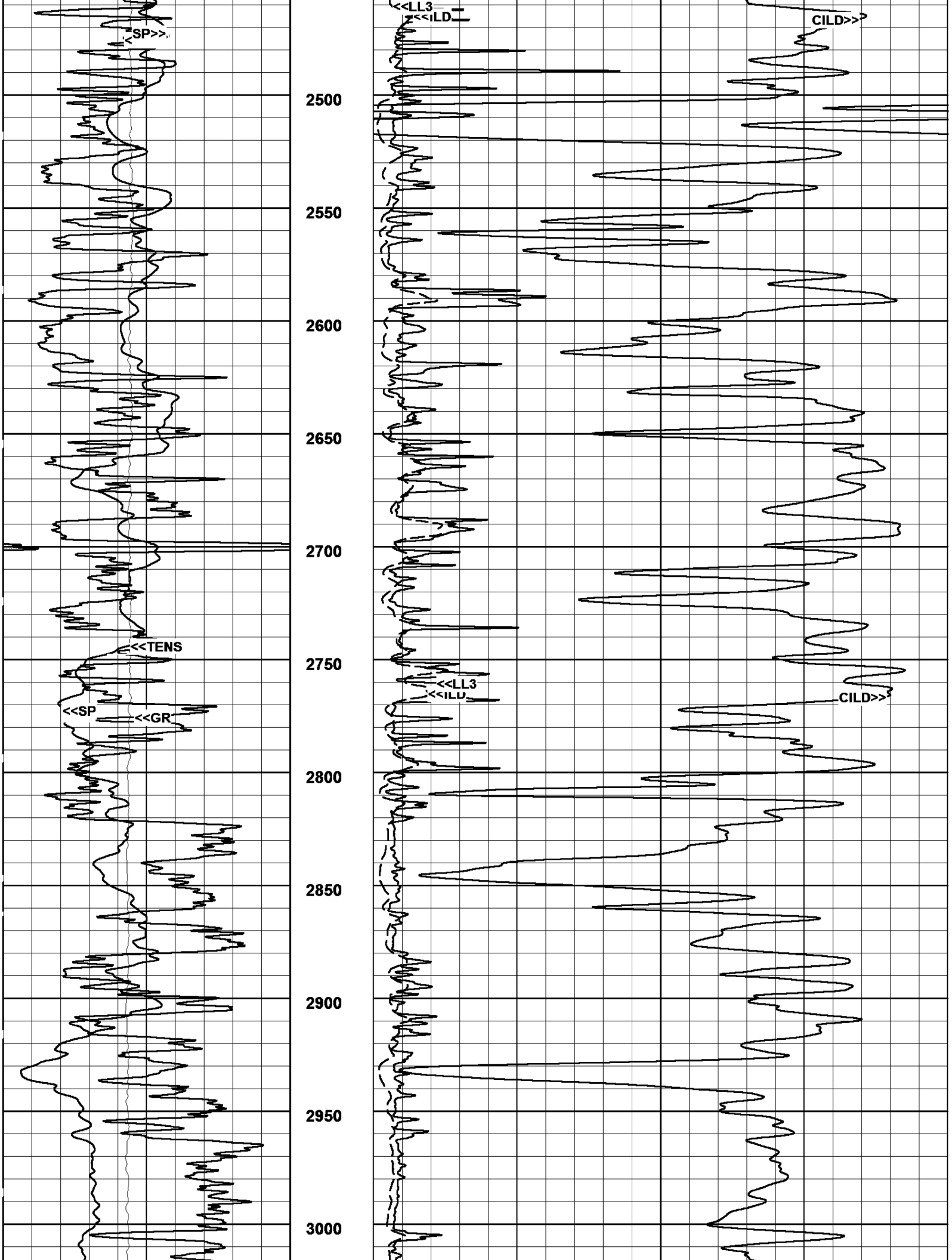
**All Measurements are  
taken from Tool Zero**

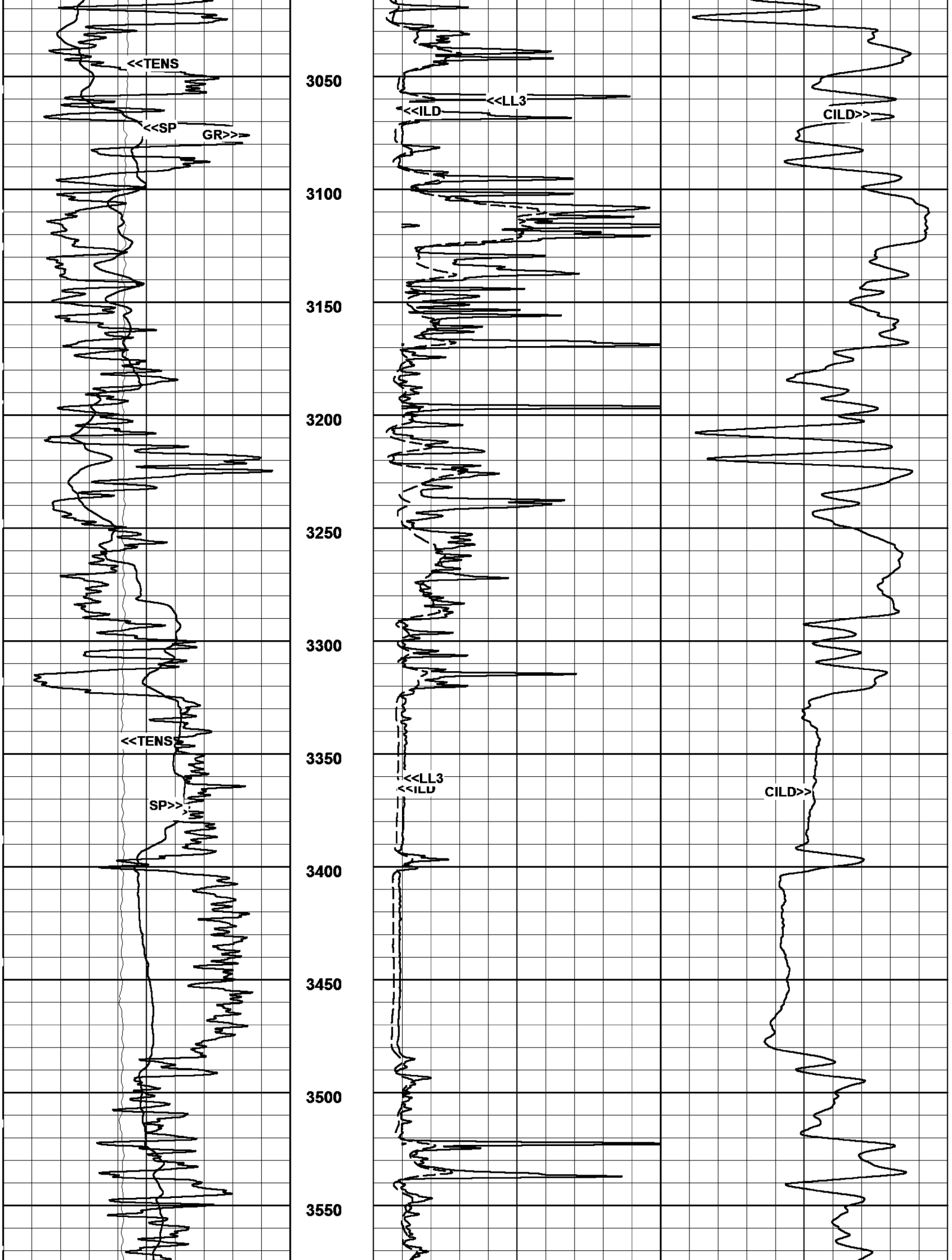


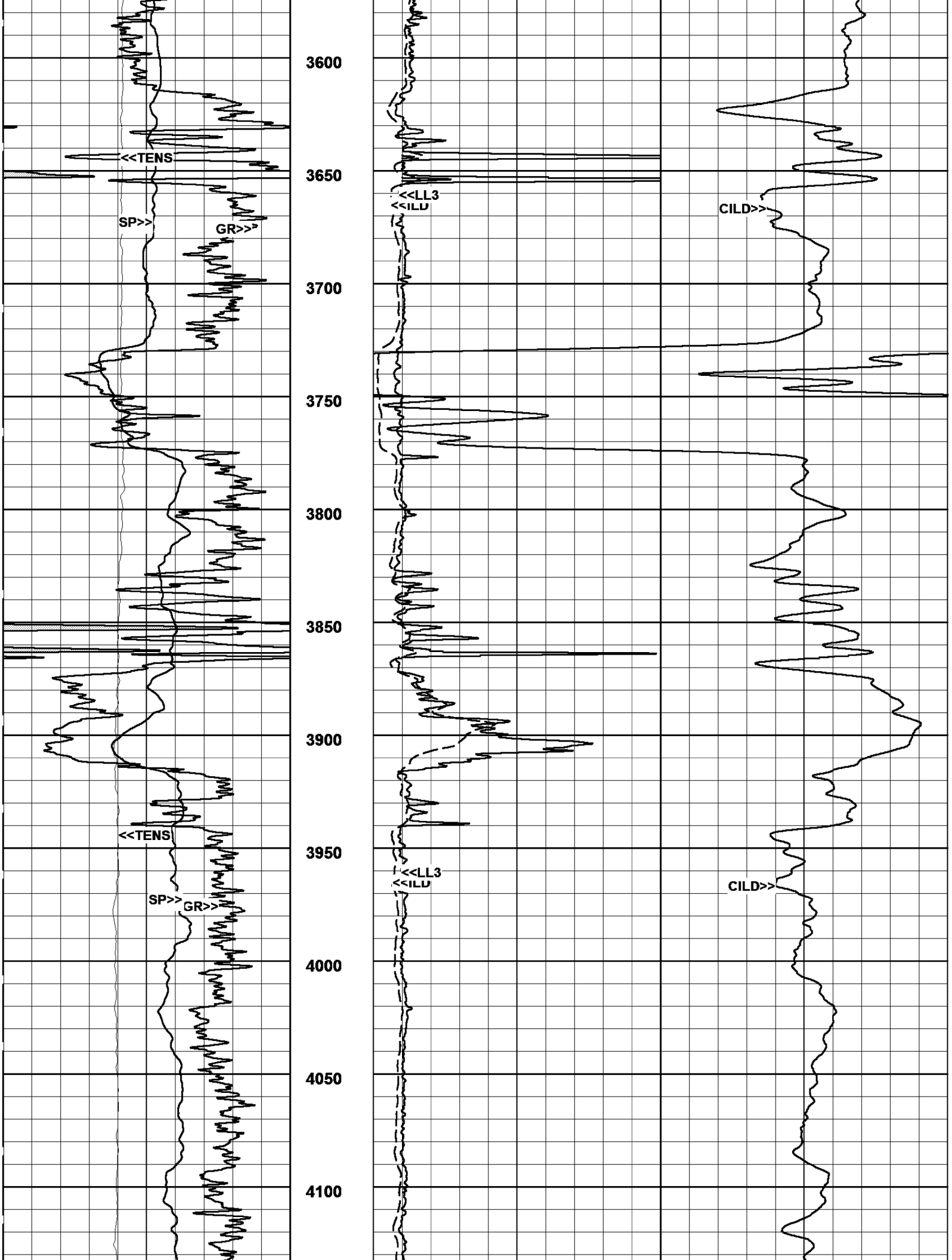


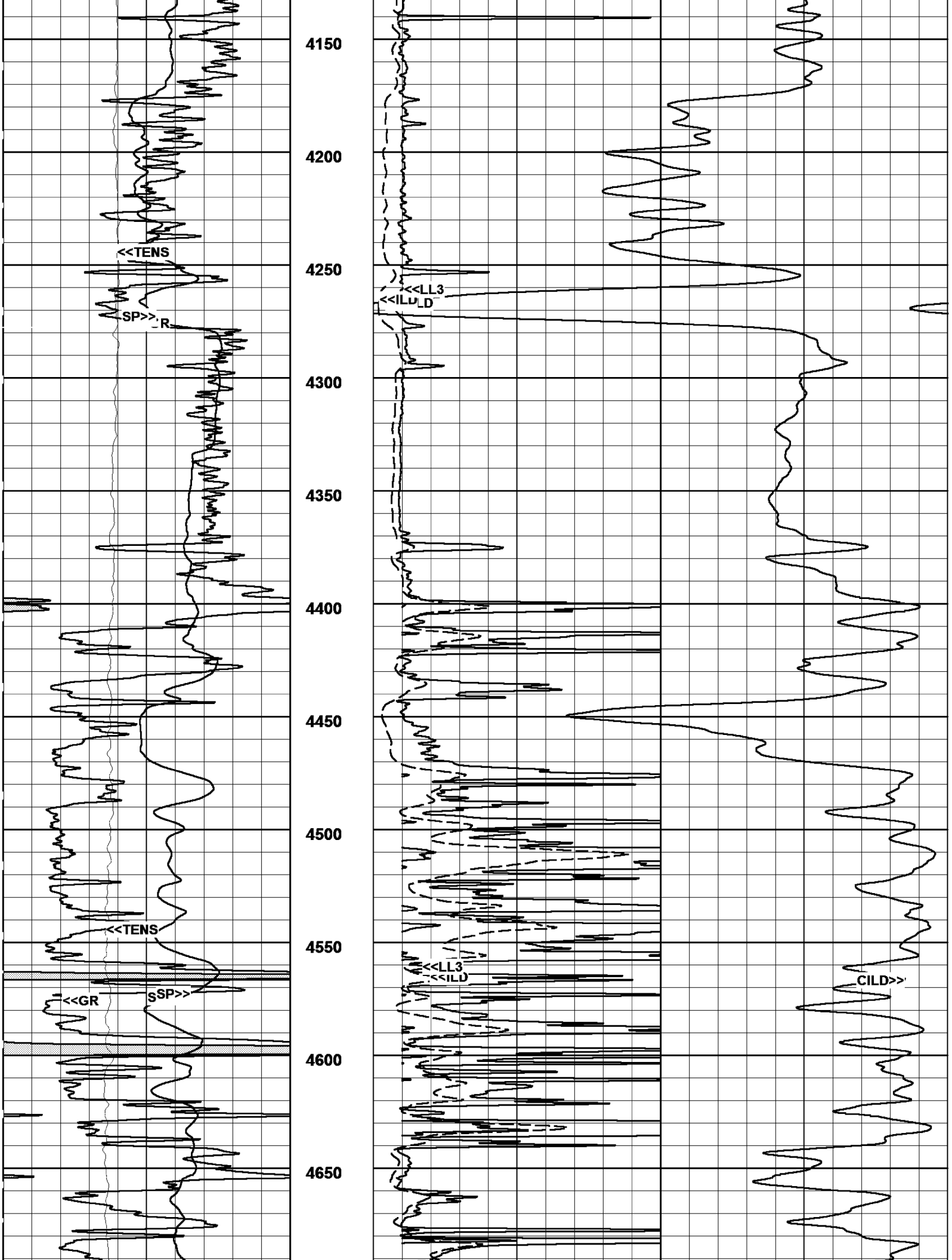


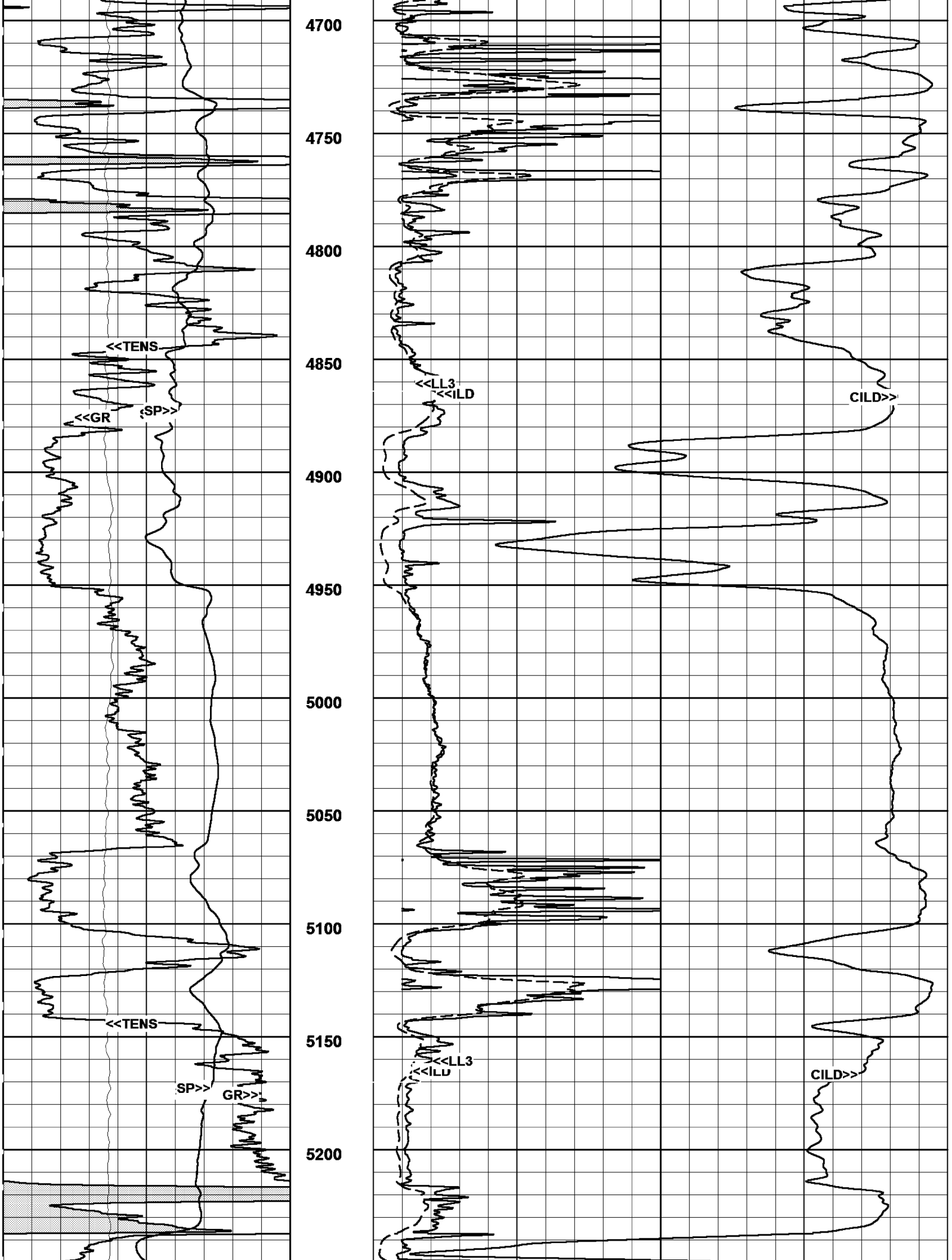


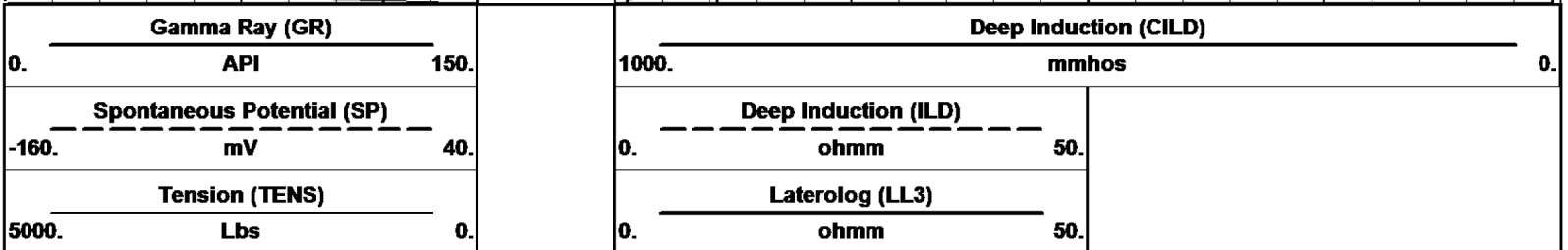
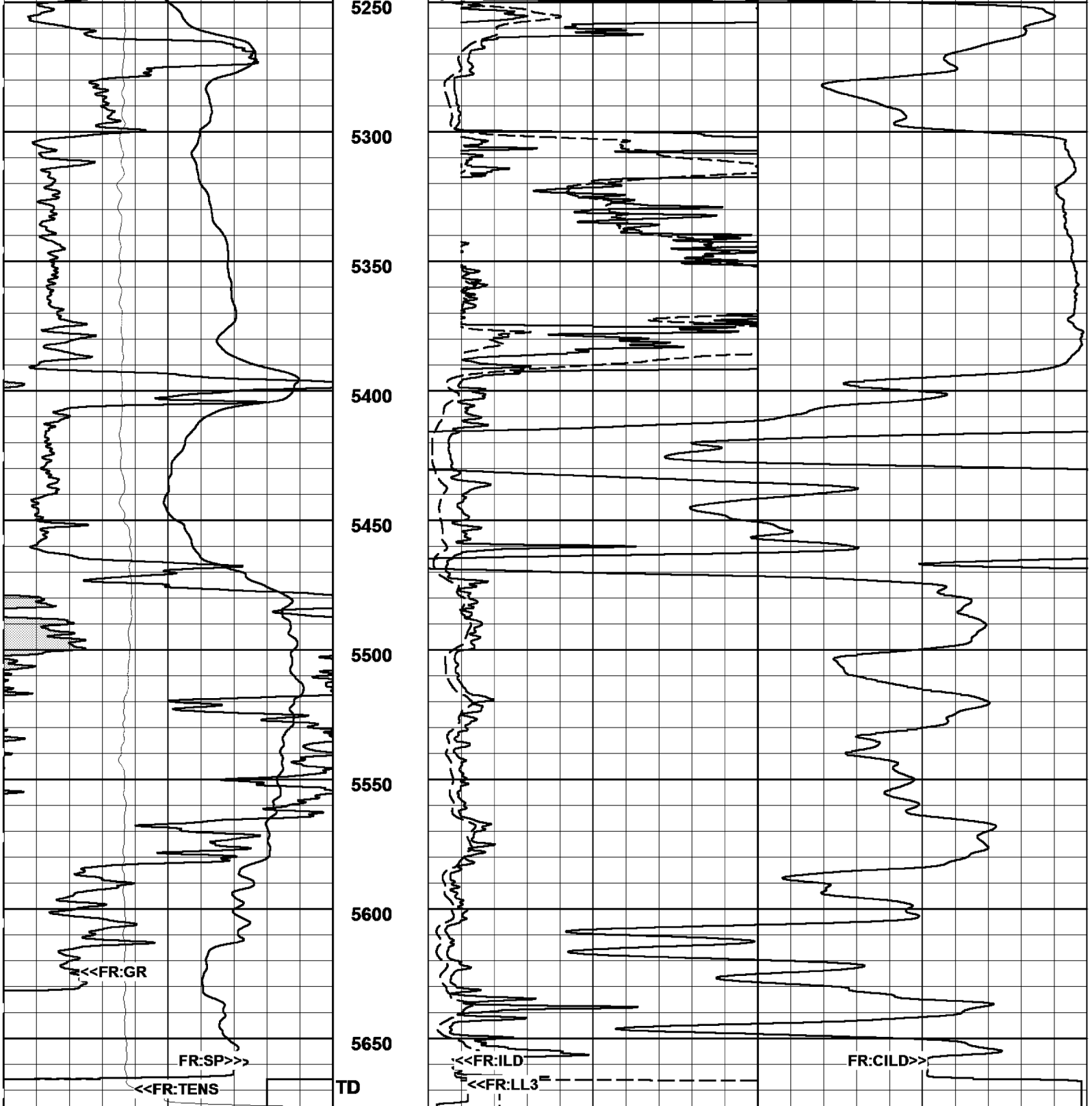












09/15/2013

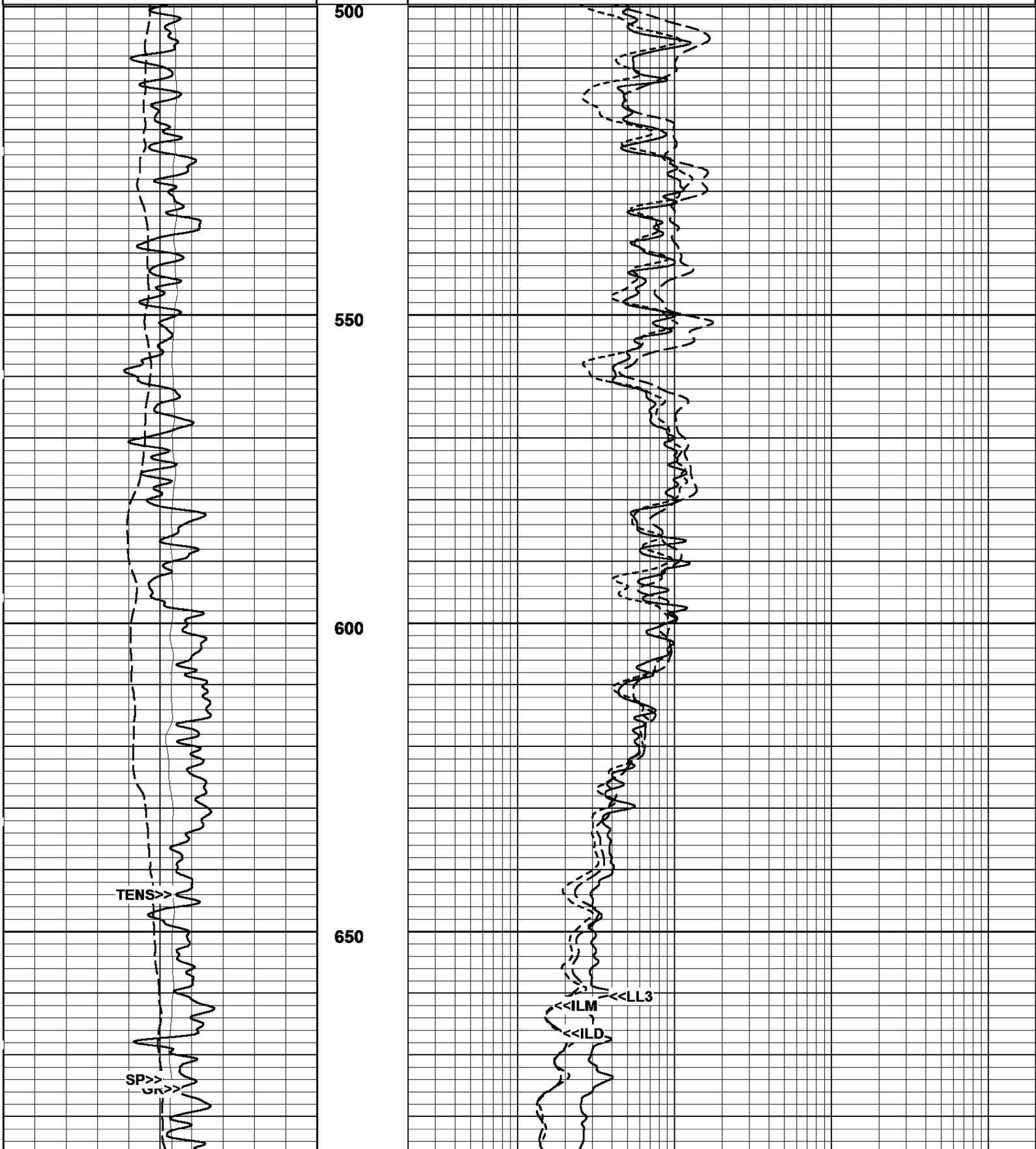
16:01:11 => End Time

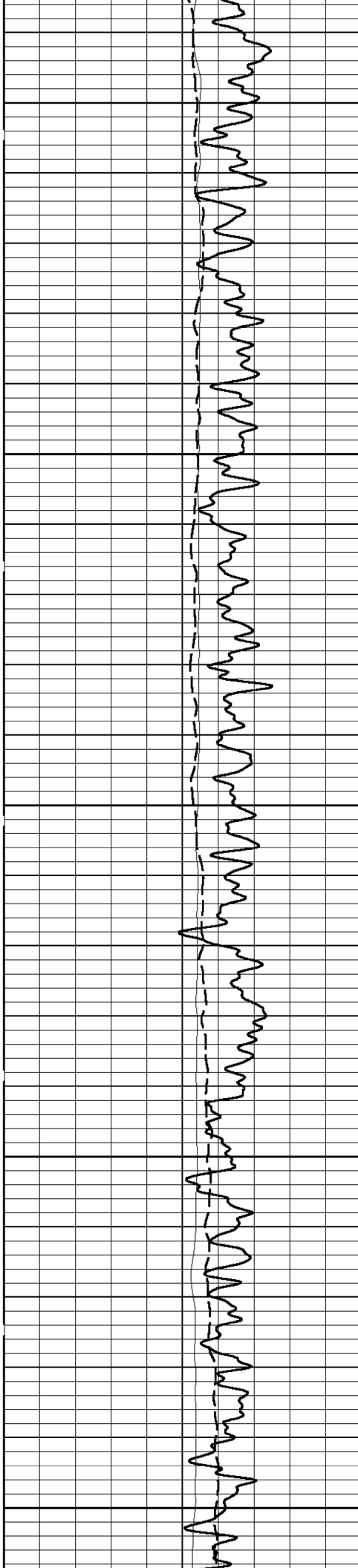
# MAIN PASS (5"/100Ft)

Log UP - (VER 11.14a)

End Depth=> 499.90 Feet

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





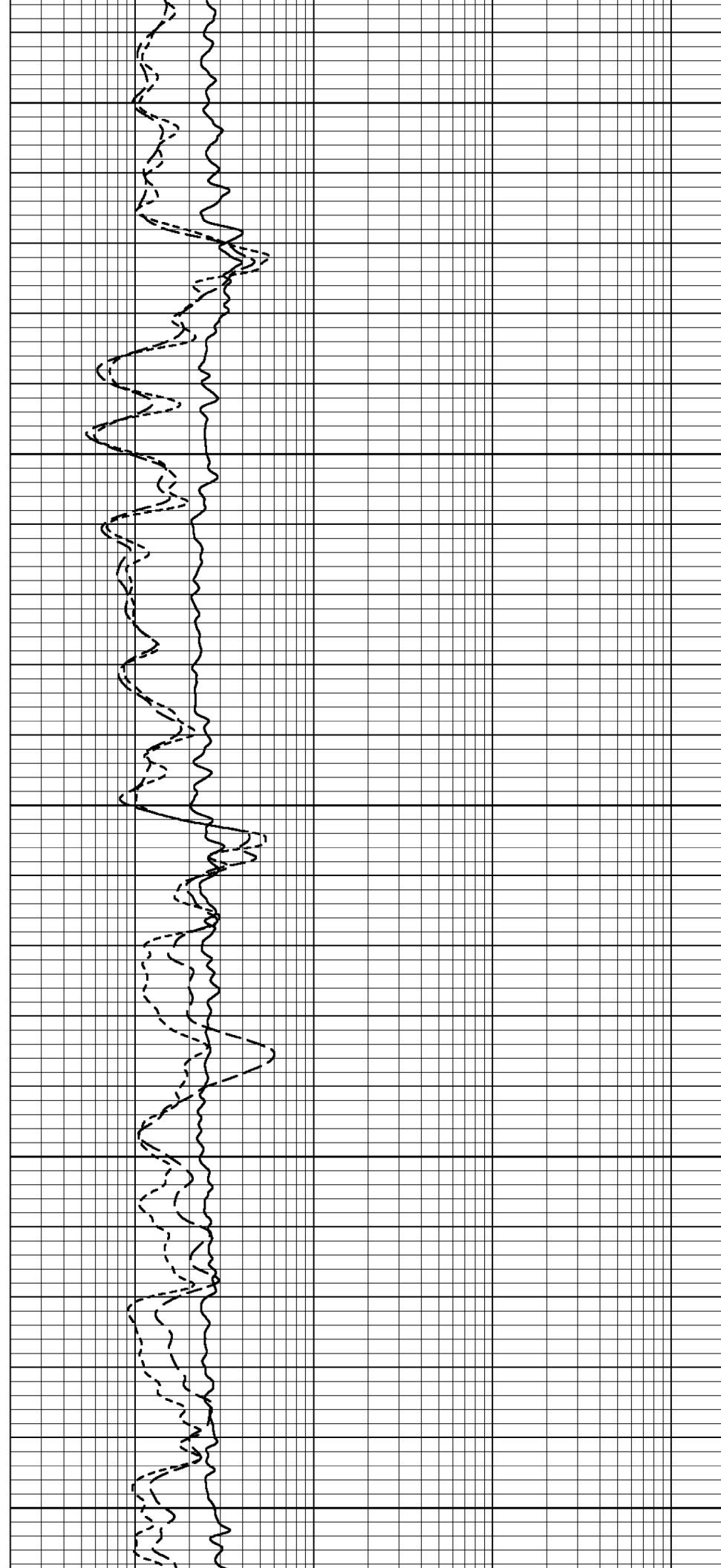
700

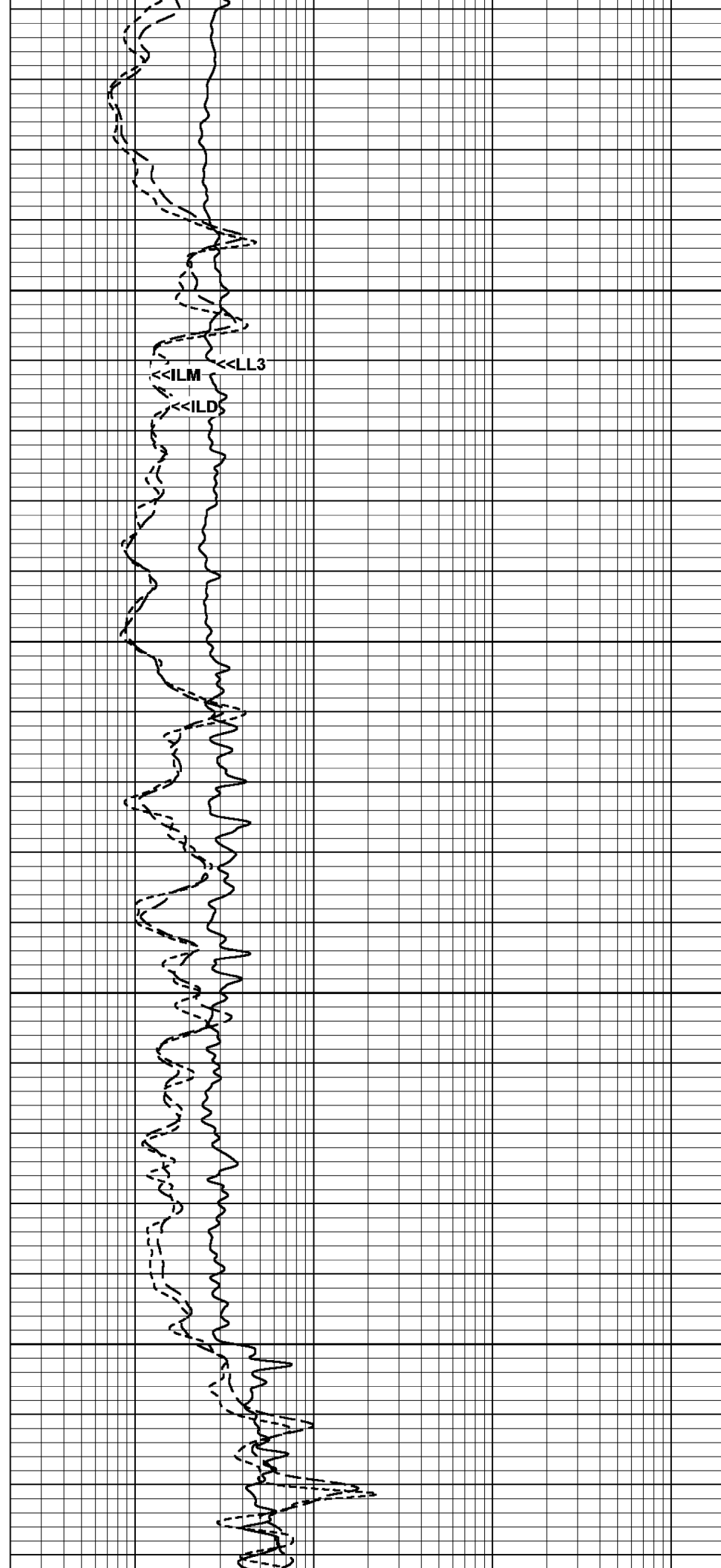
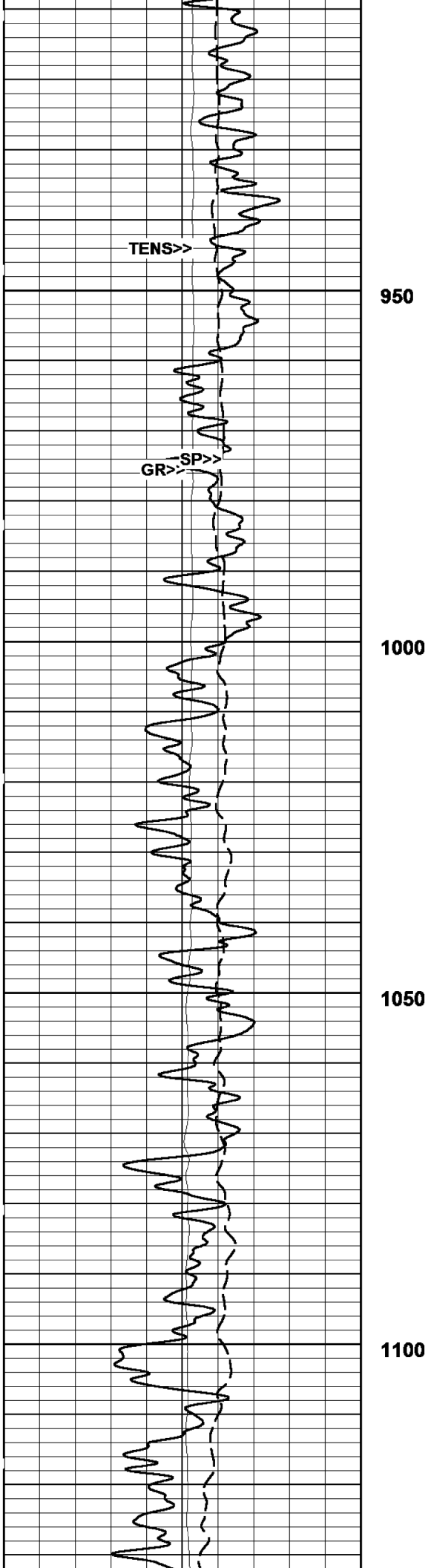
750

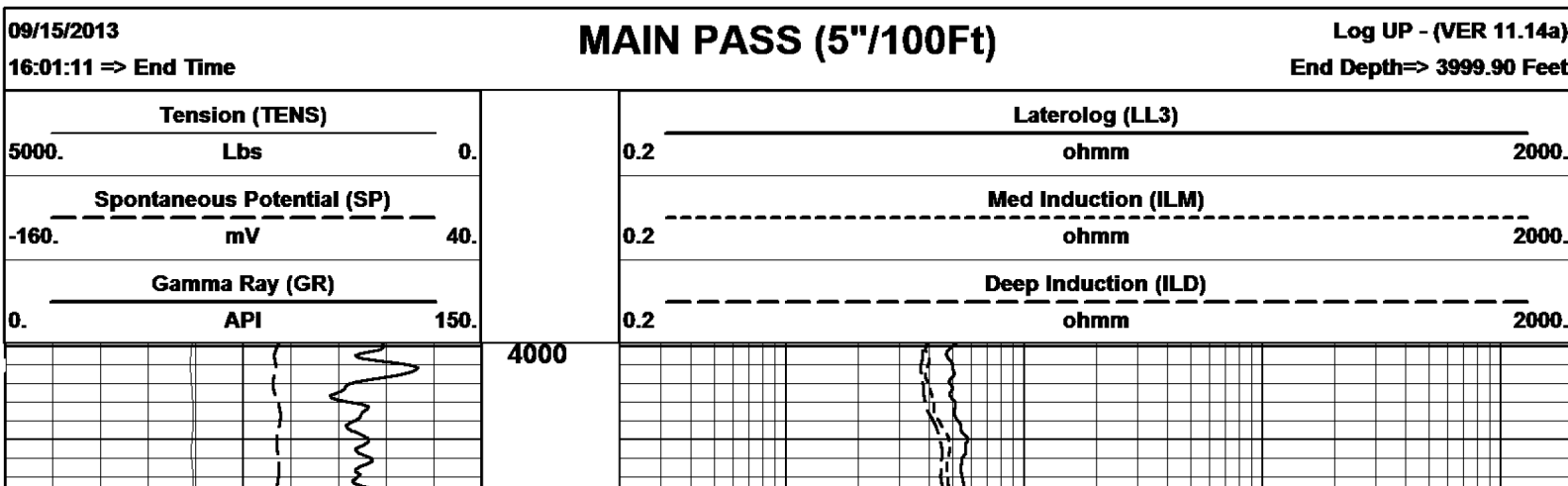
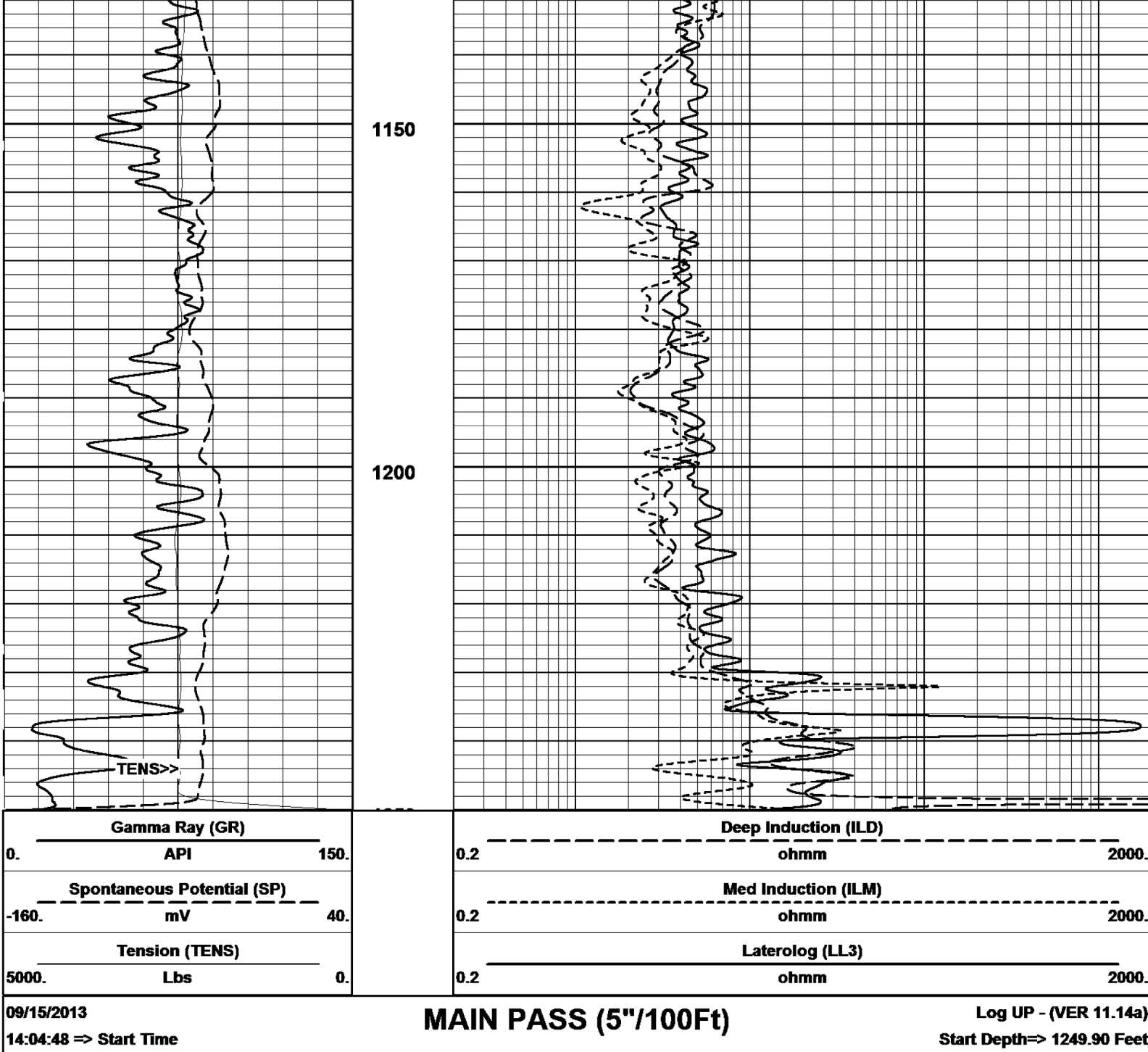
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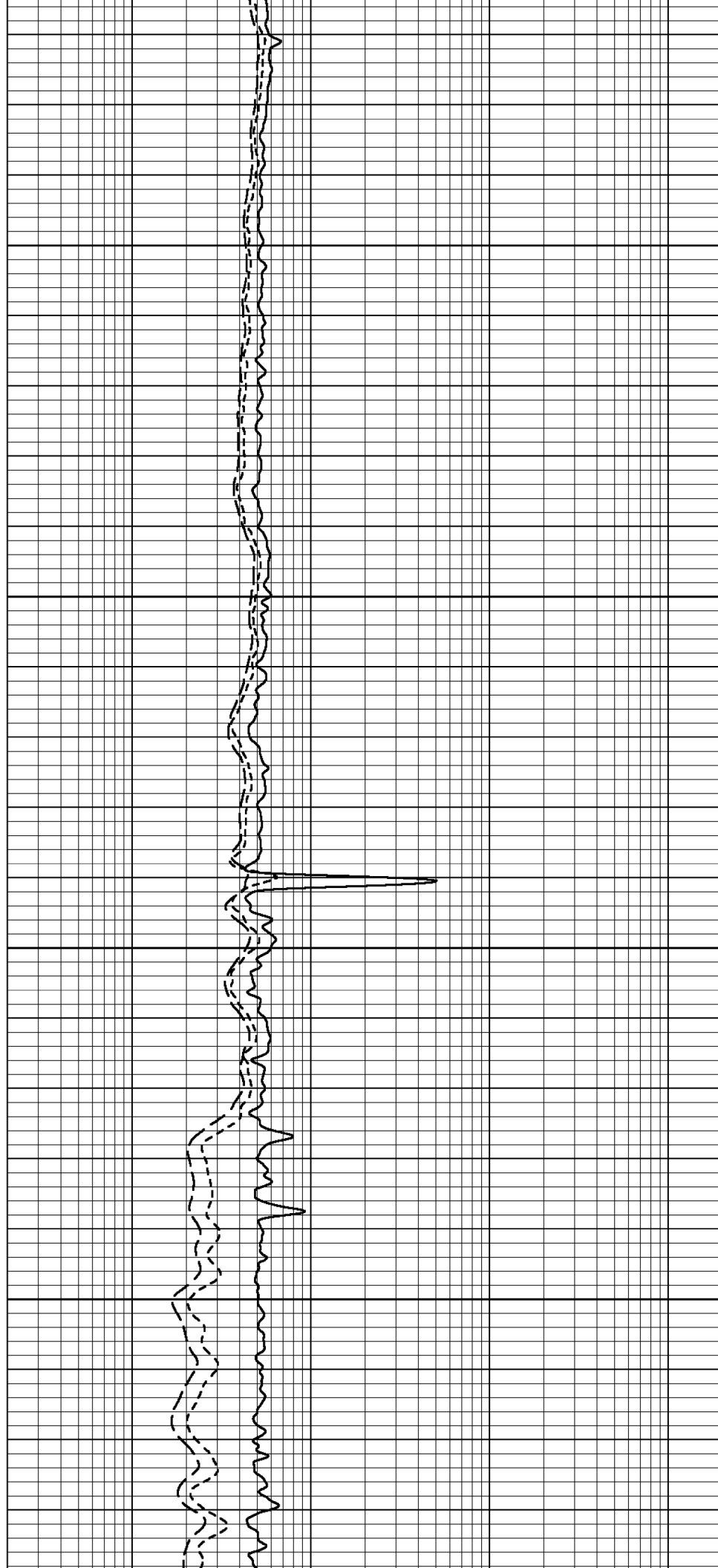
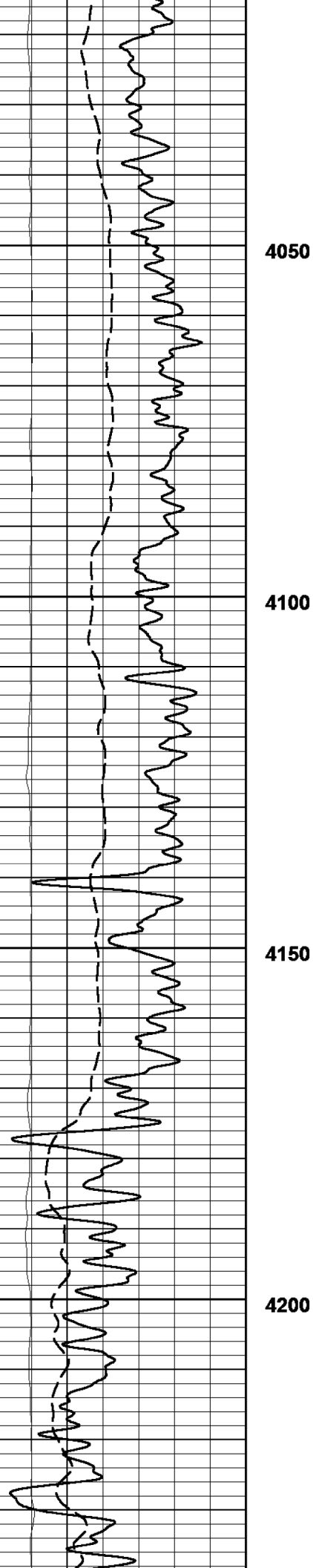
850

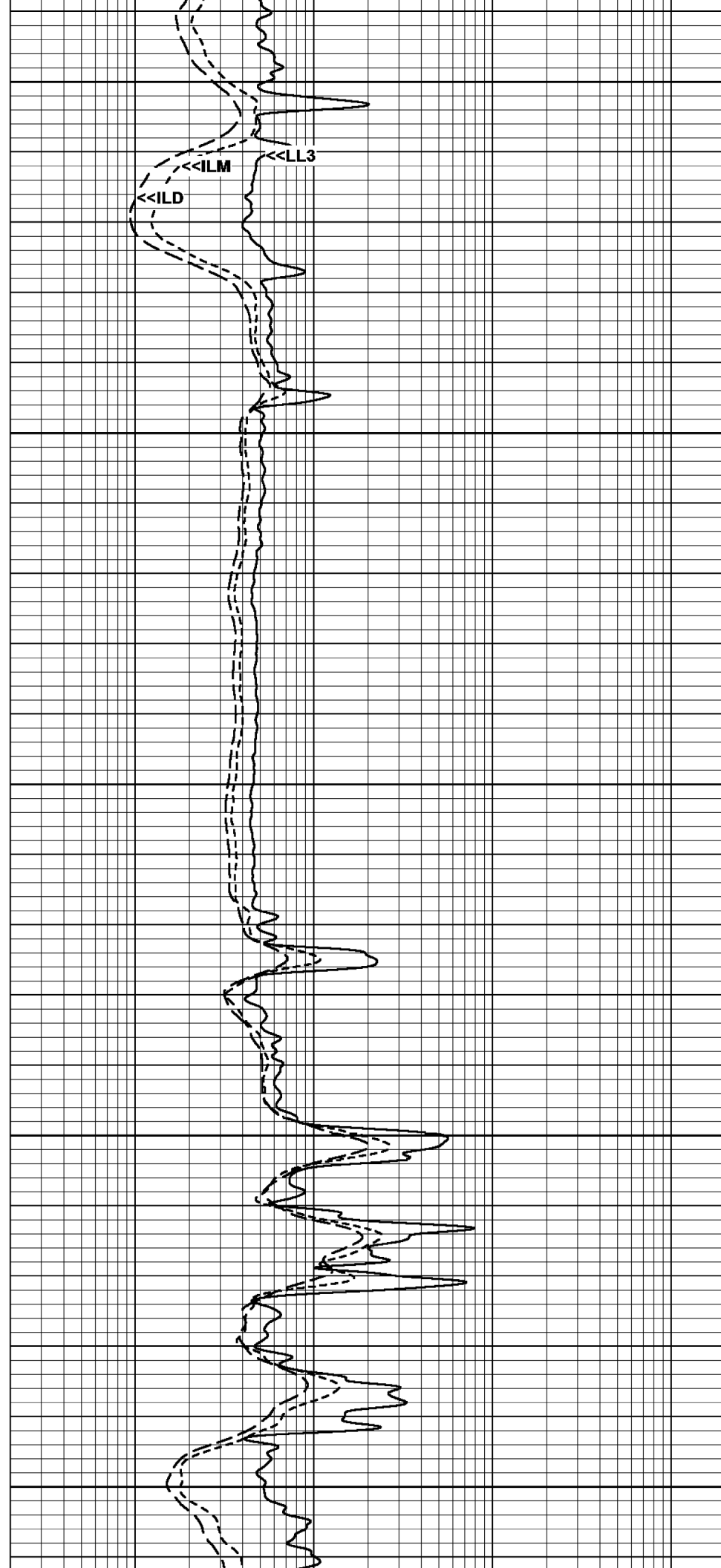
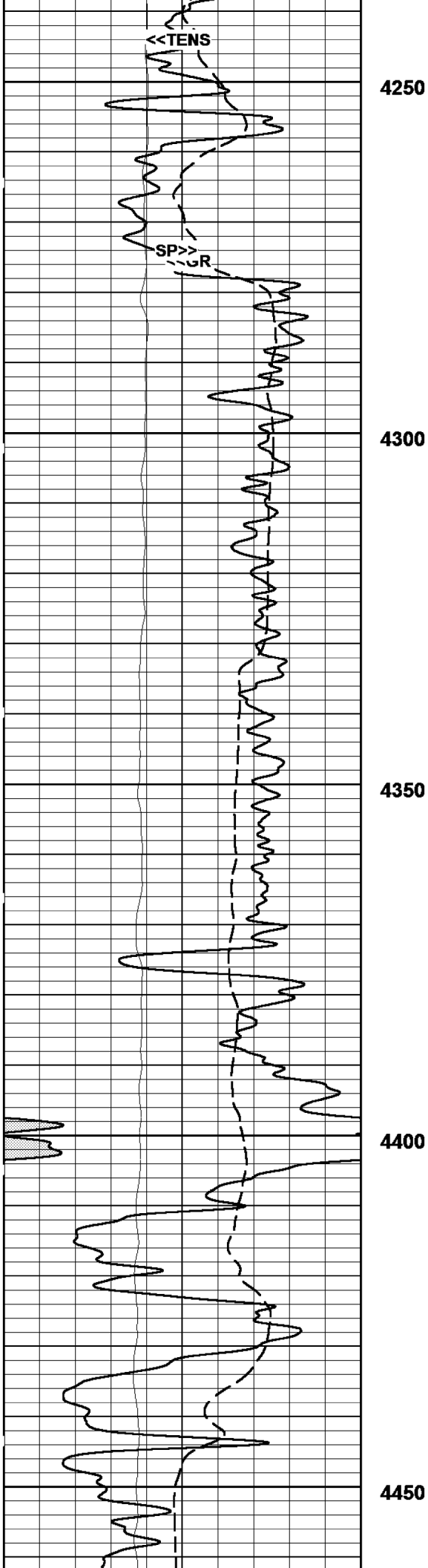
900

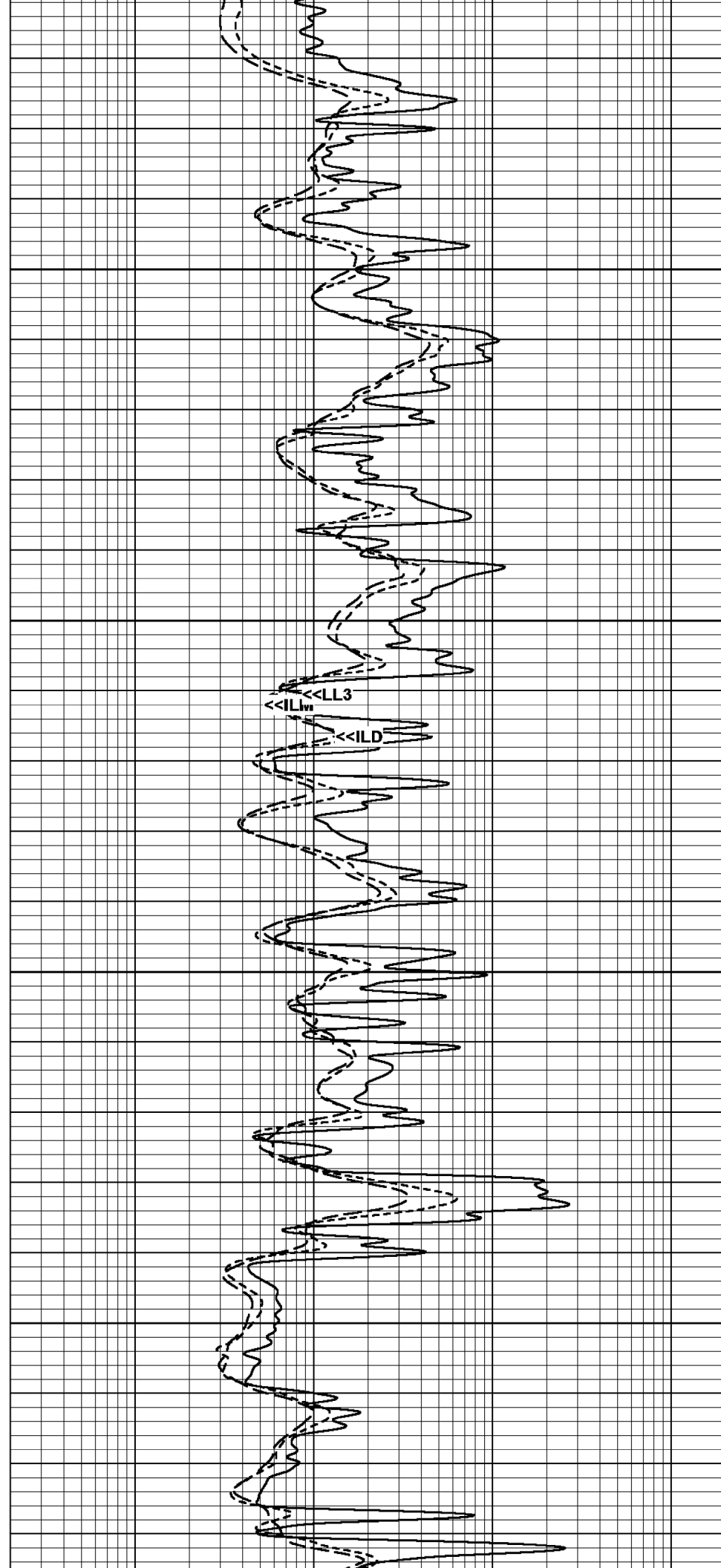
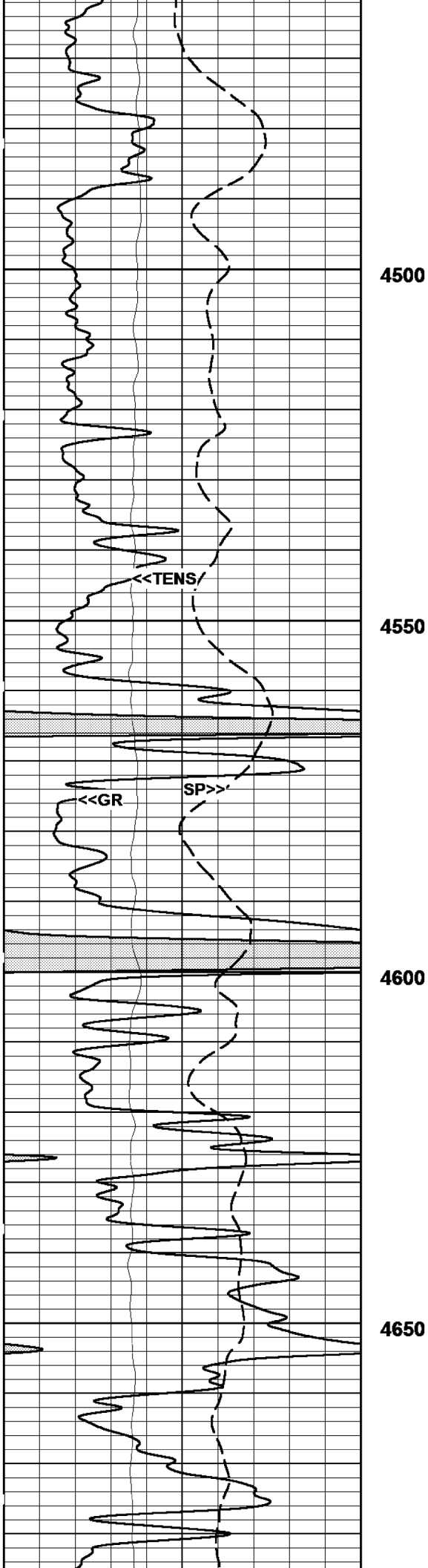


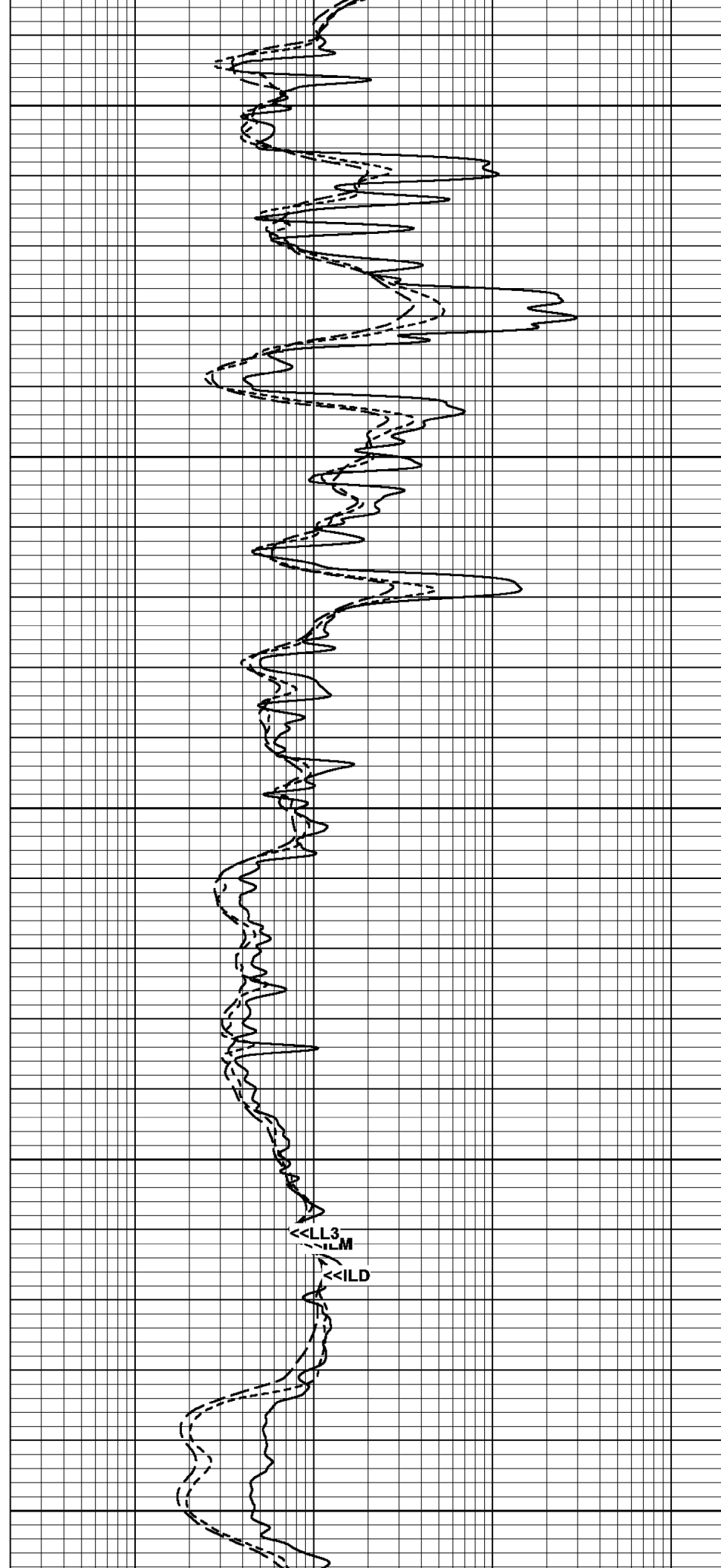
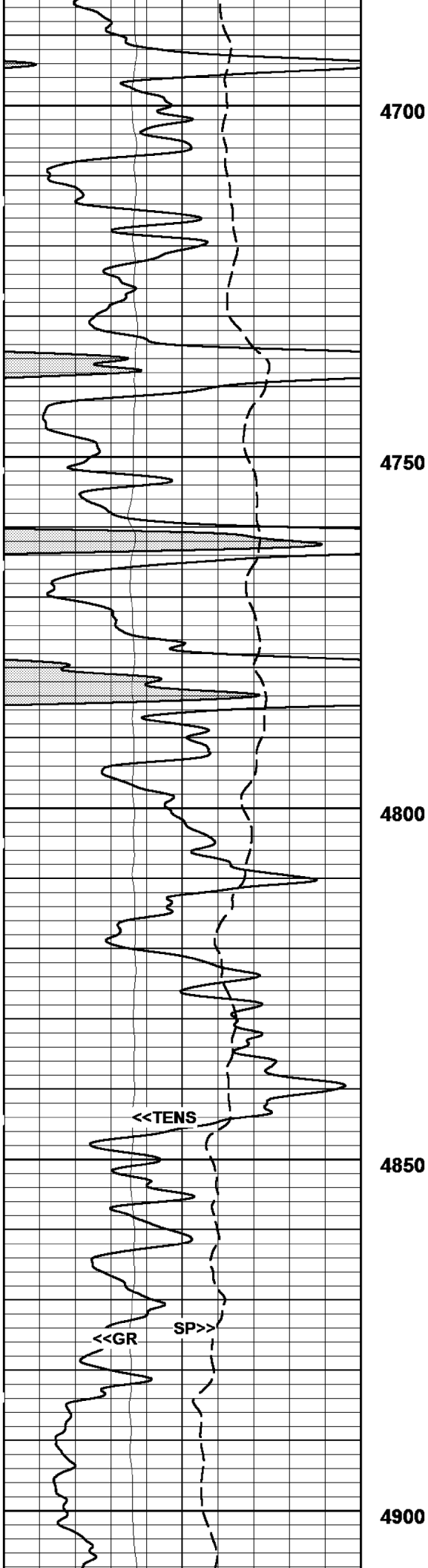


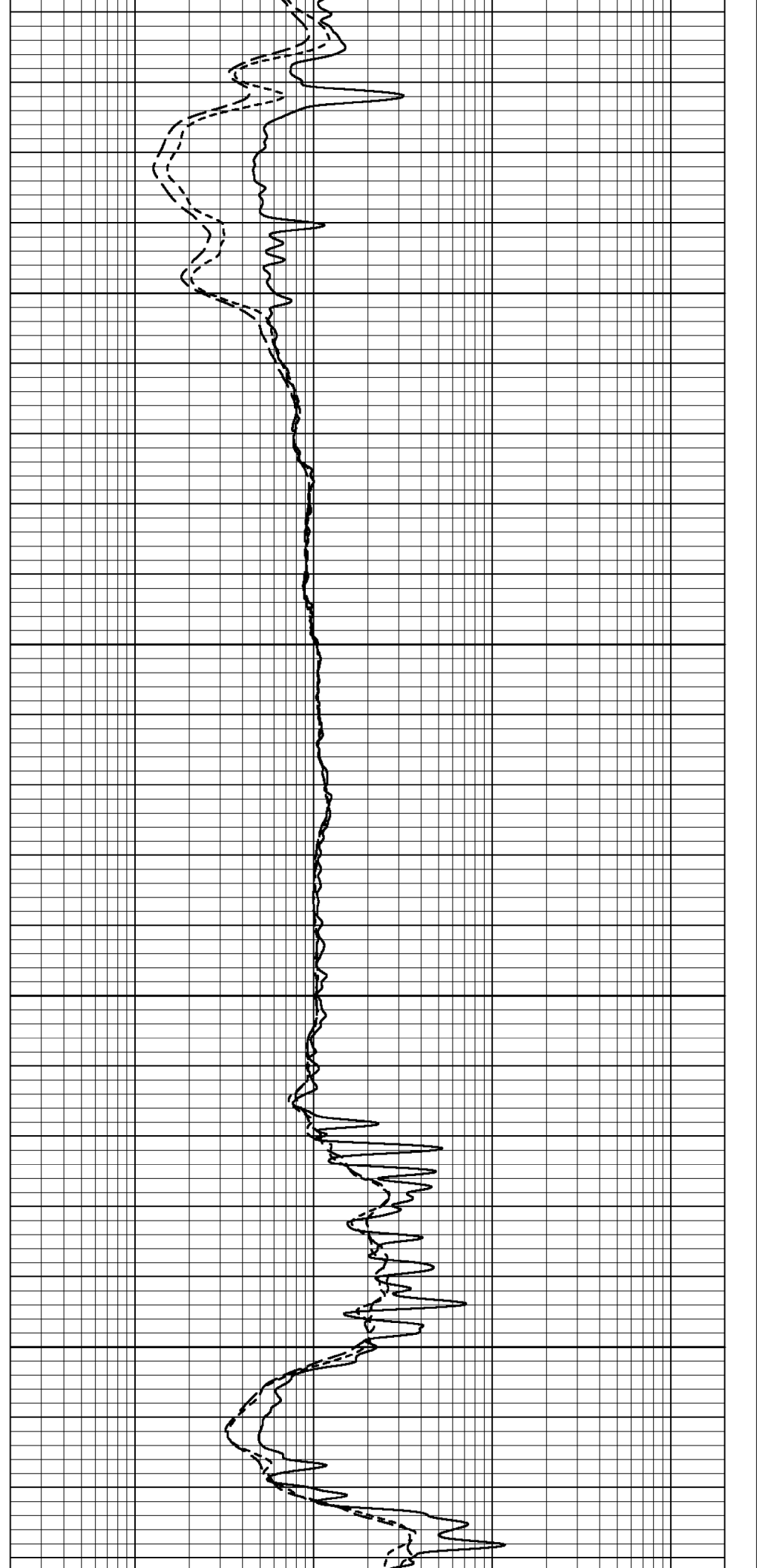
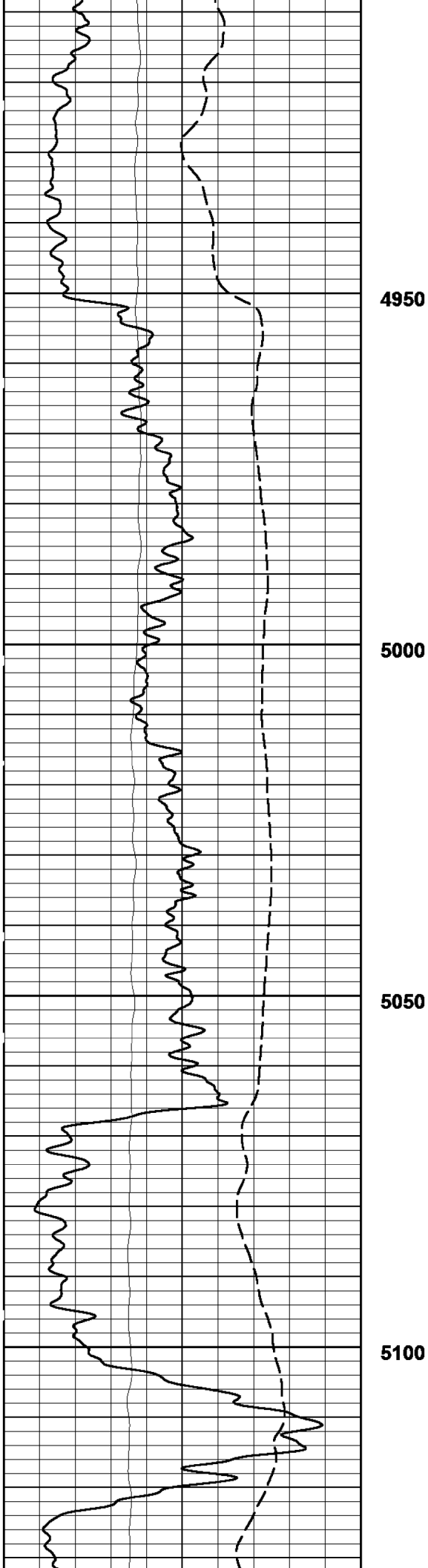


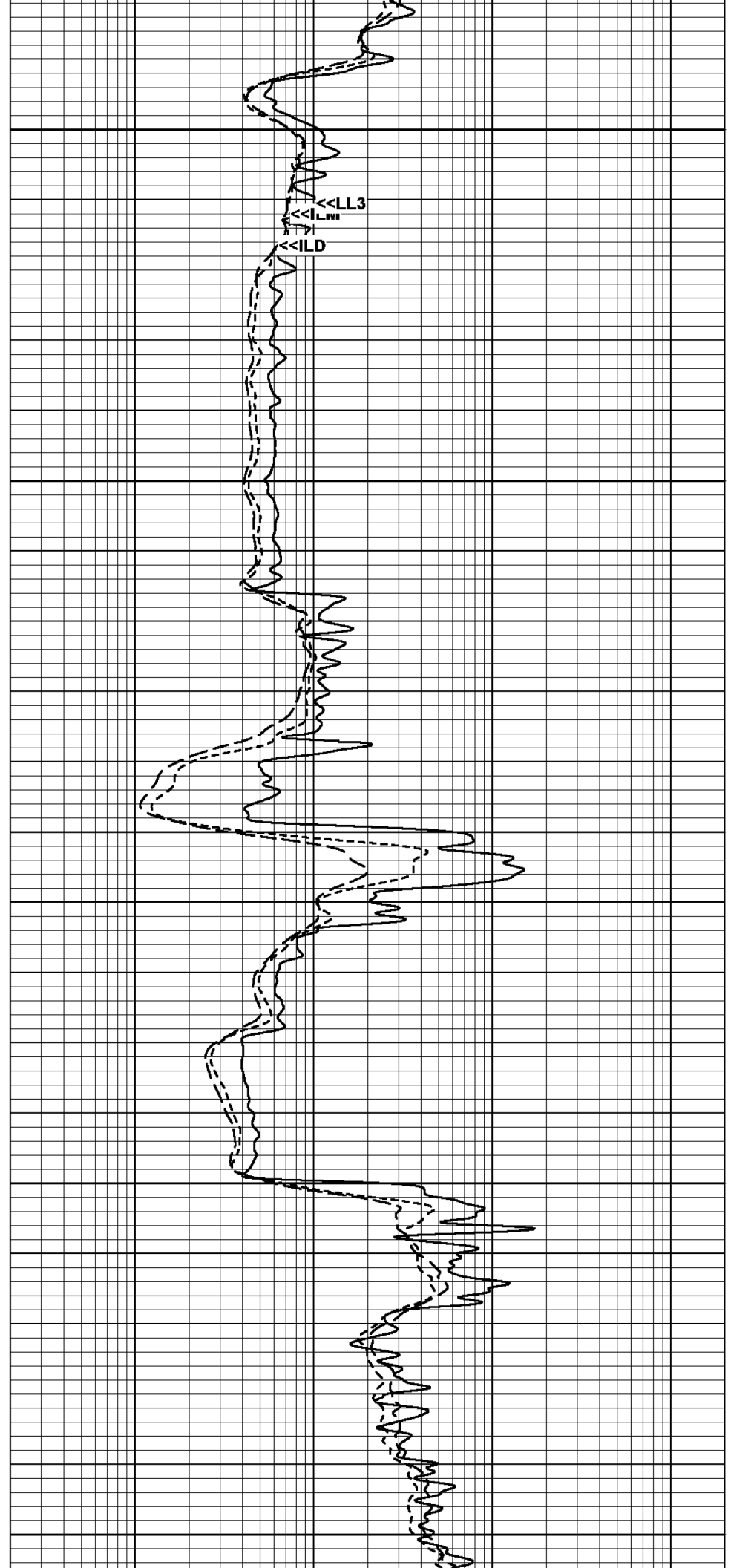
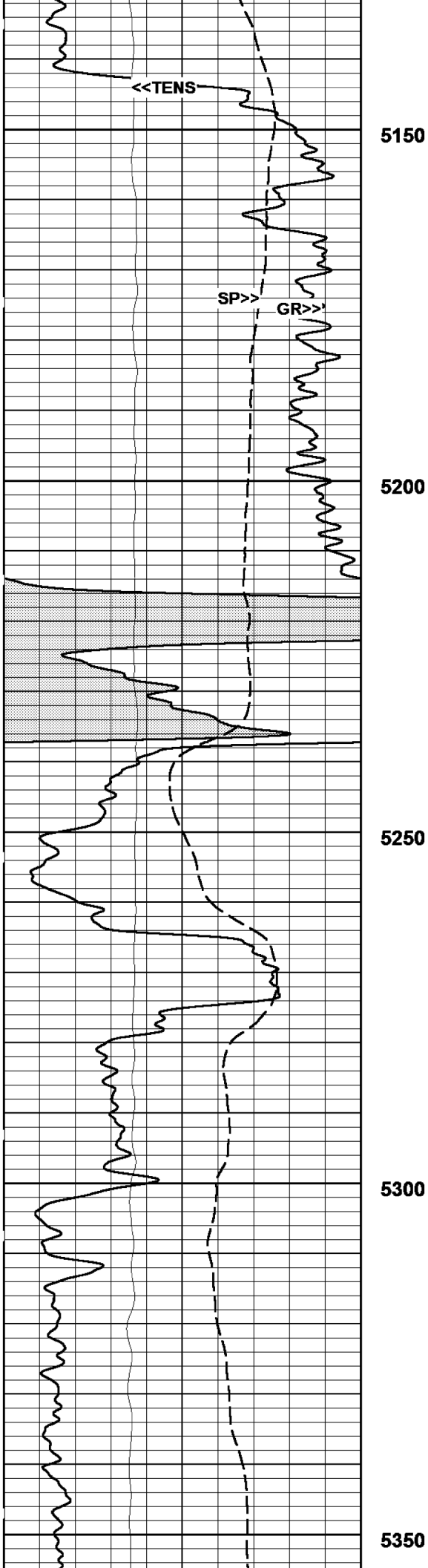


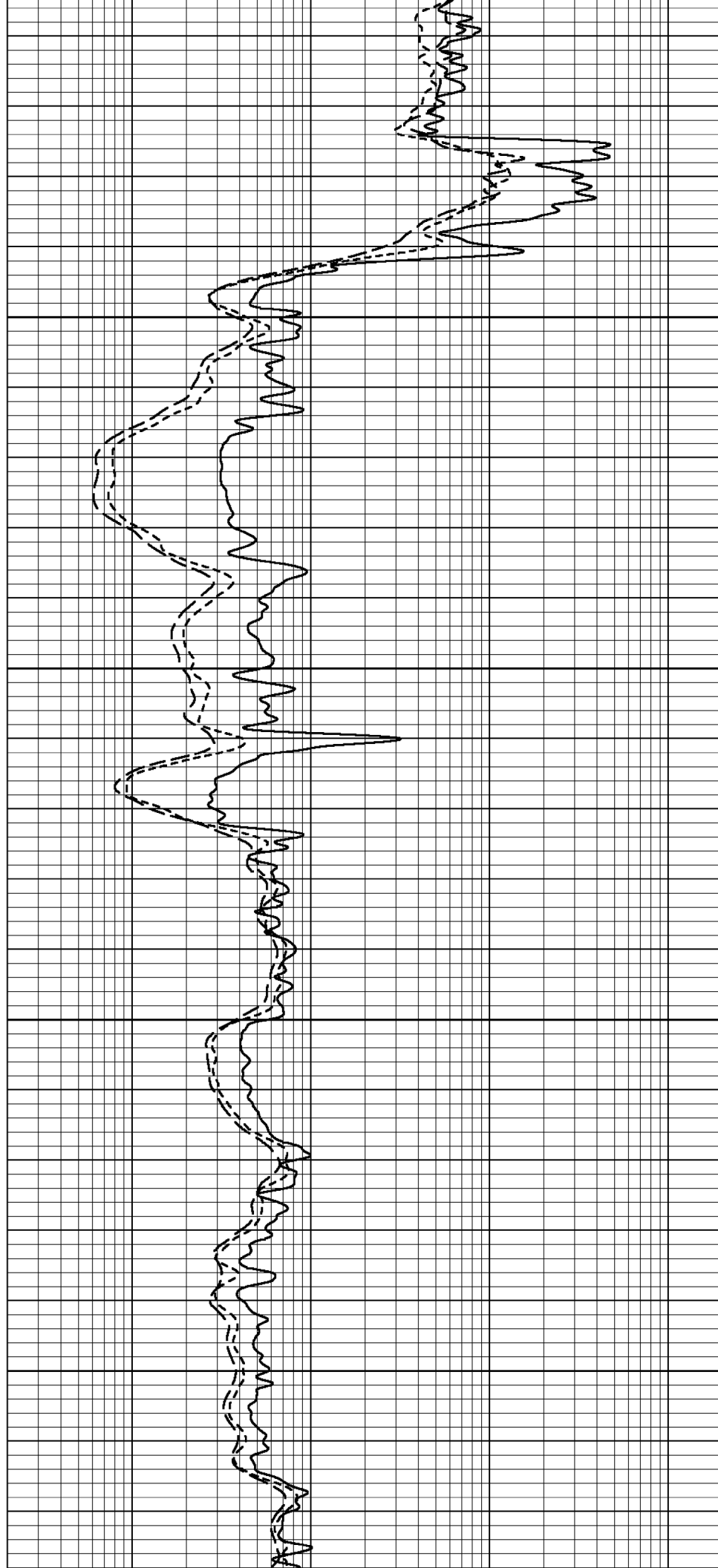
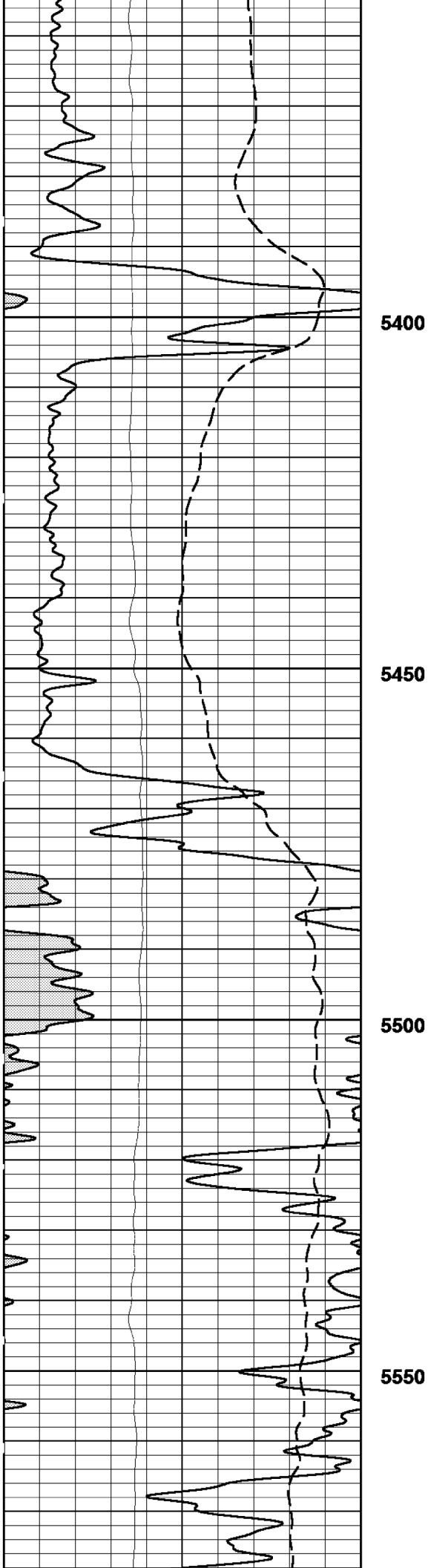


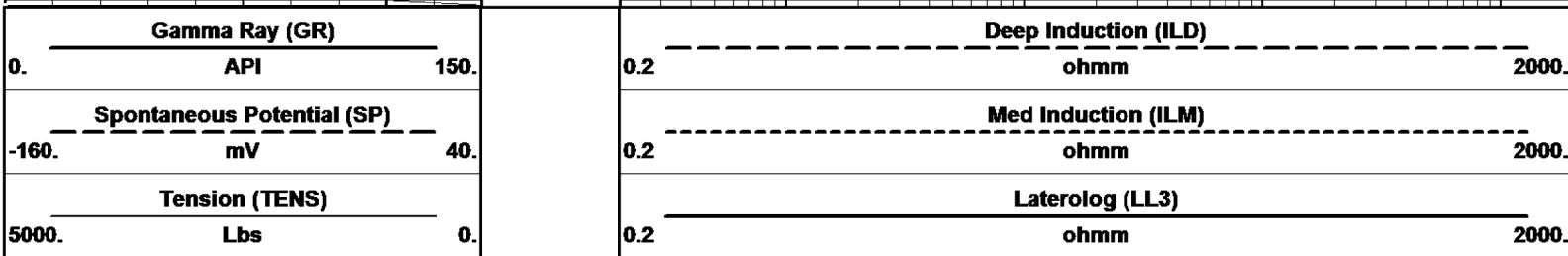
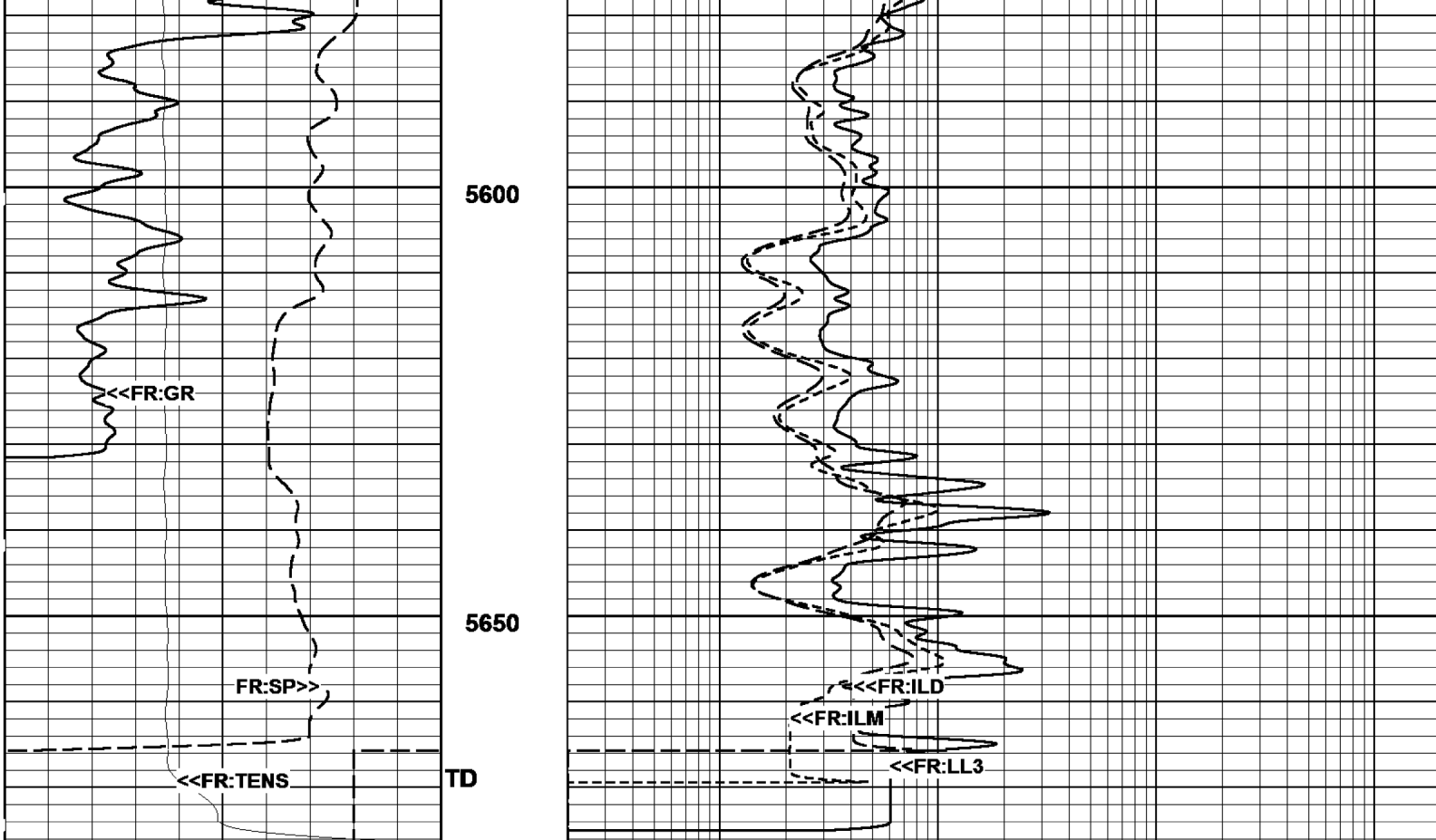








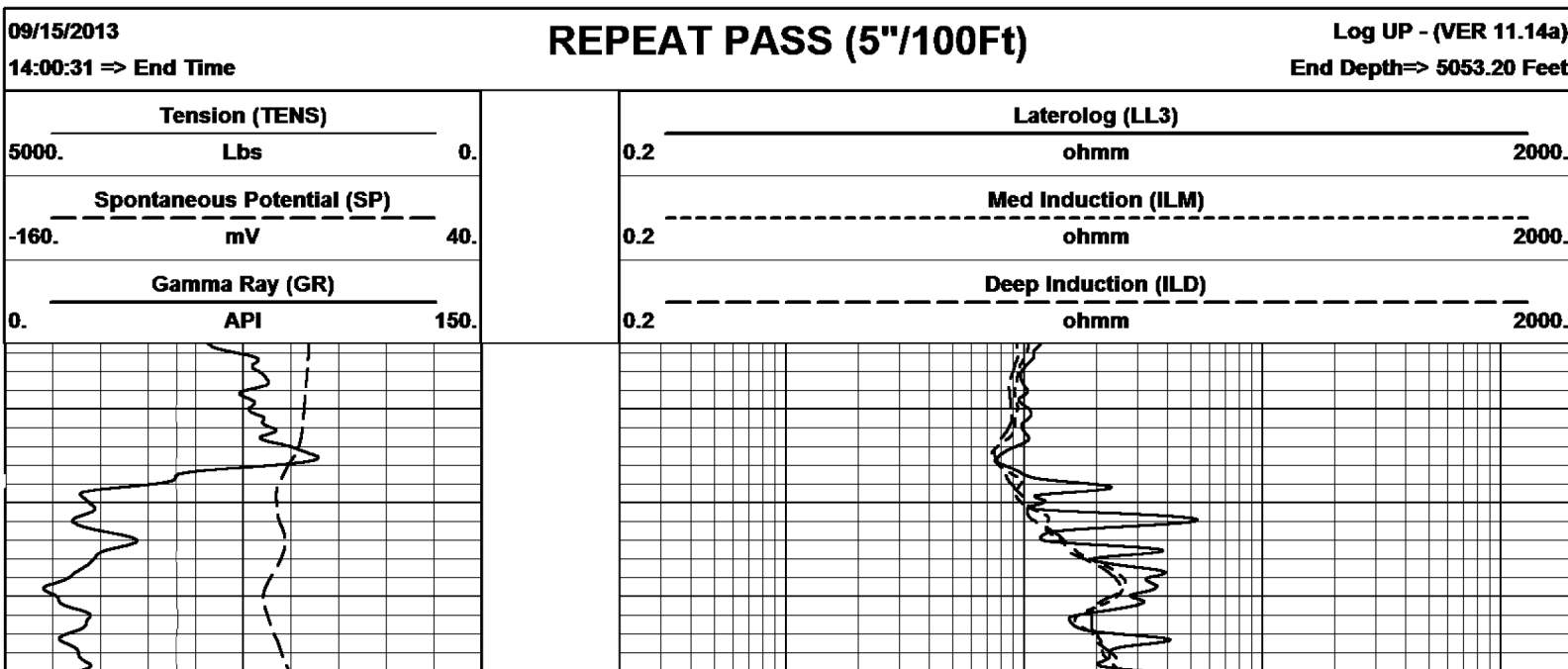


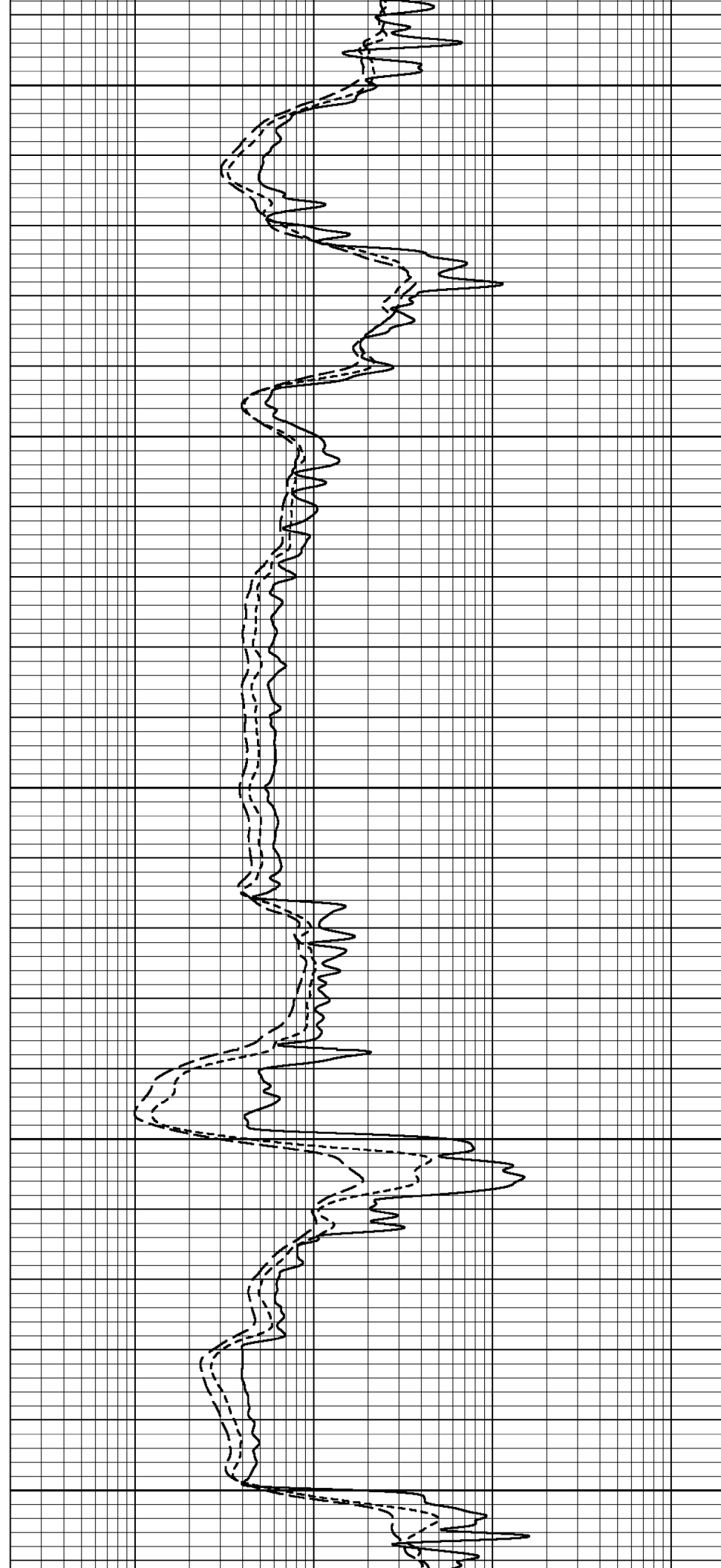
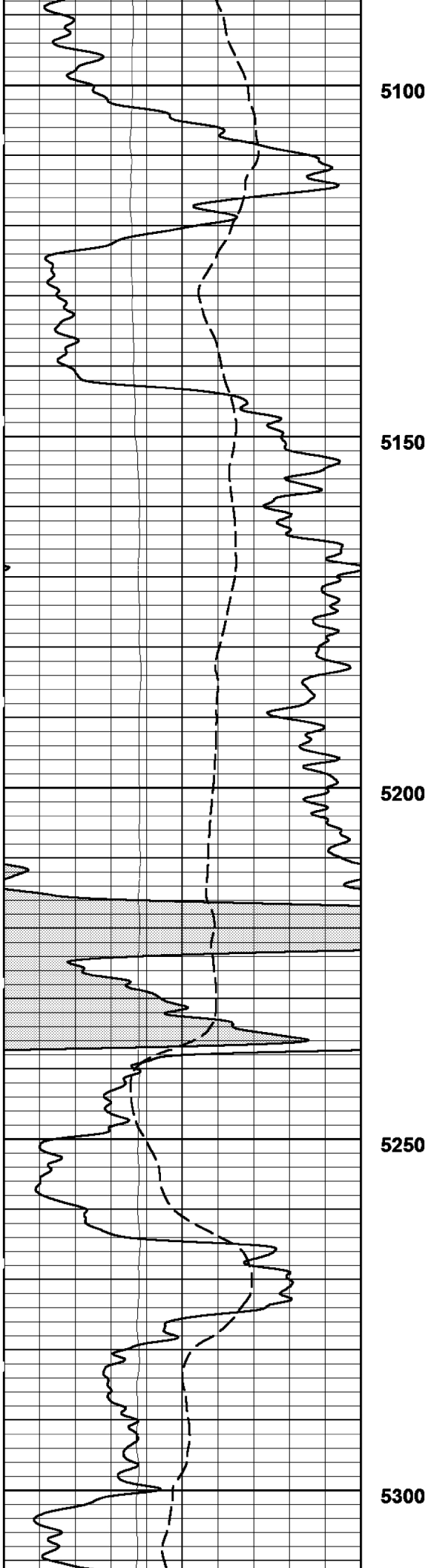


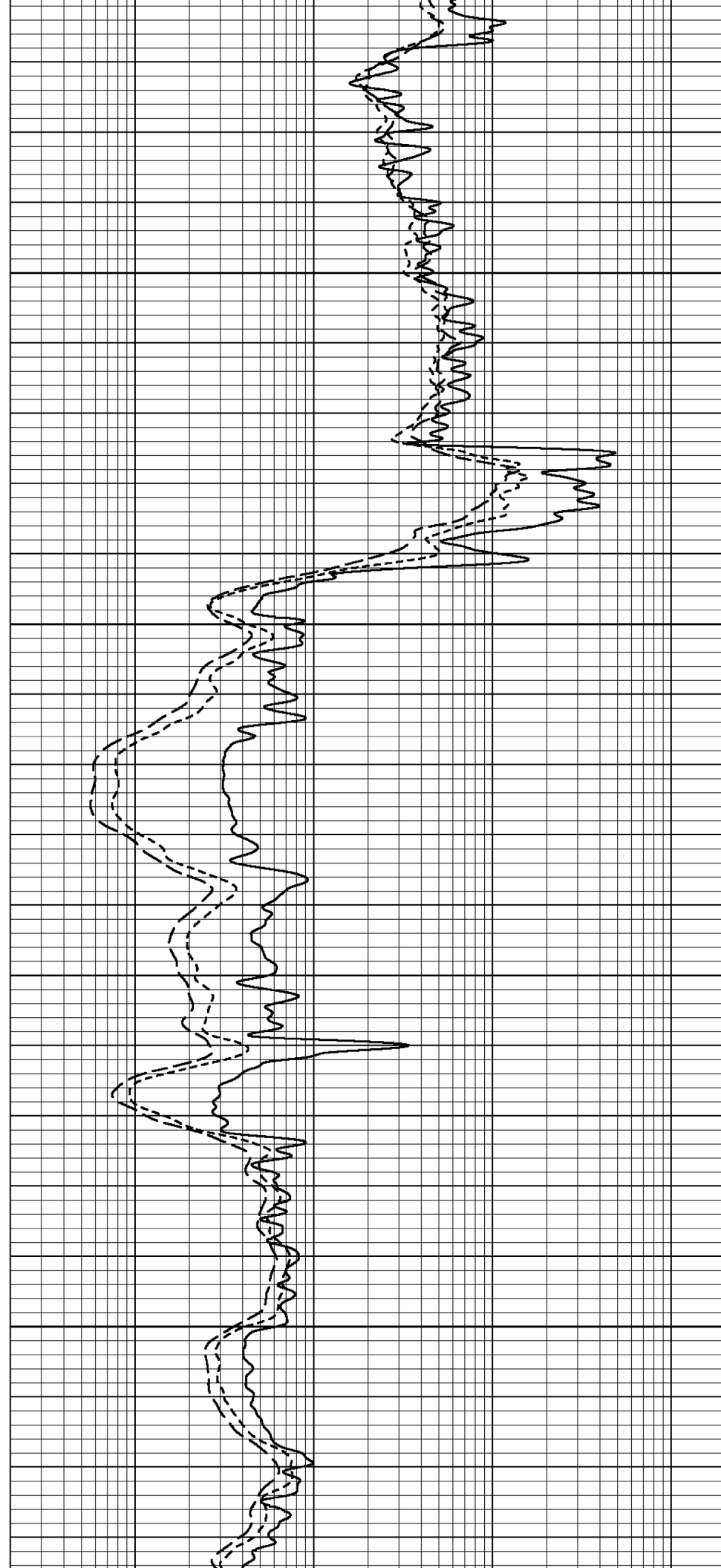
09/15/2013  
14:04:48 => Start Time

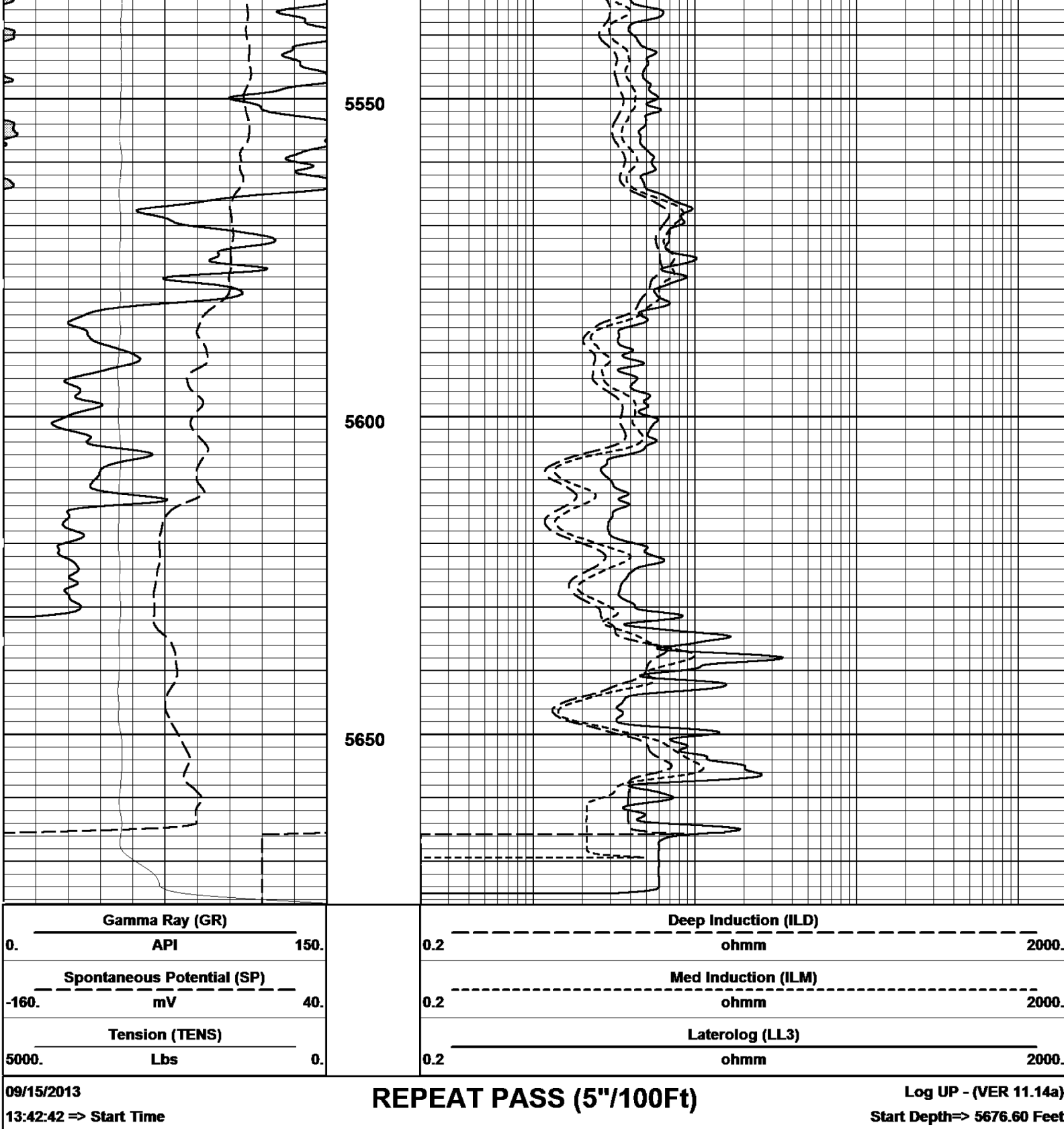
**MAIN PASS (5"/100Ft)**

Log UP - (VER 11.14a)  
Start Depth=> 5676.60 Feet









## Induction Resistivity / Conductivity Calibrations

TOOL TYPE  
SERIAL NUM

Slim Hole Induction  
RD1009

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)

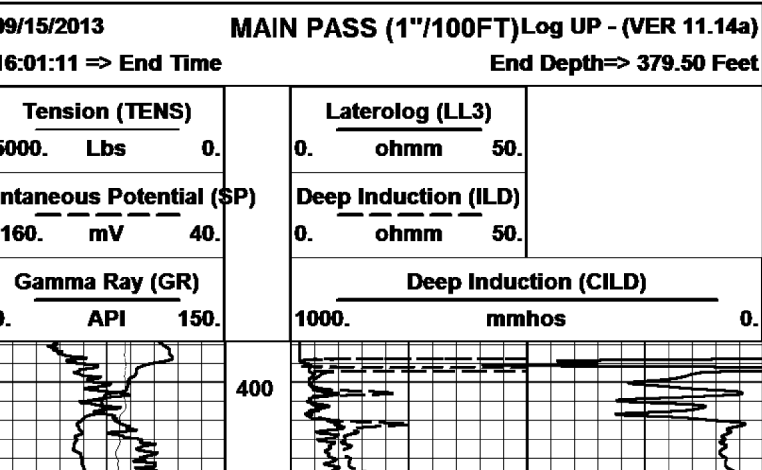
|                        |                     |                    |         |          |                 |                 |                |
|------------------------|---------------------|--------------------|---------|----------|-----------------|-----------------|----------------|
| DEEP INDUCTION         | 0.000               | 400.000            | 499.231 | 3.914    | 634.365         | M/D/Y> 3/8/2013 | H:M:S> 11:4:12 |
| MED INDUCTION          | 0.000               | 462.500            | 501.895 | 4.907    | 735.617         | M/D/Y> 3/8/2013 | H:M:S> 11:4:15 |
| SHALLOW LATERLOG       | CALIBRATOR LOW(ohm) | CALIBRATOR HI(ohm) | LOW(mV) | HI(mV)   |                 |                 |                |
|                        | 2.000               | 500.000            | 16.196  | 2561.370 | M/D/Y> 3/8/2013 | H:M:S> 11:4:17  |                |
| WELL SITE CALIBRATIONS |                     |                    |         |          |                 |                 |                |
|                        |                     |                    |         |          |                 |                 |                |
|                        |                     |                    |         |          |                 |                 |                |
|                        |                     |                    |         |          |                 |                 |                |
|                        |                     |                    |         |          |                 |                 |                |
|                        |                     |                    |         |          |                 |                 |                |

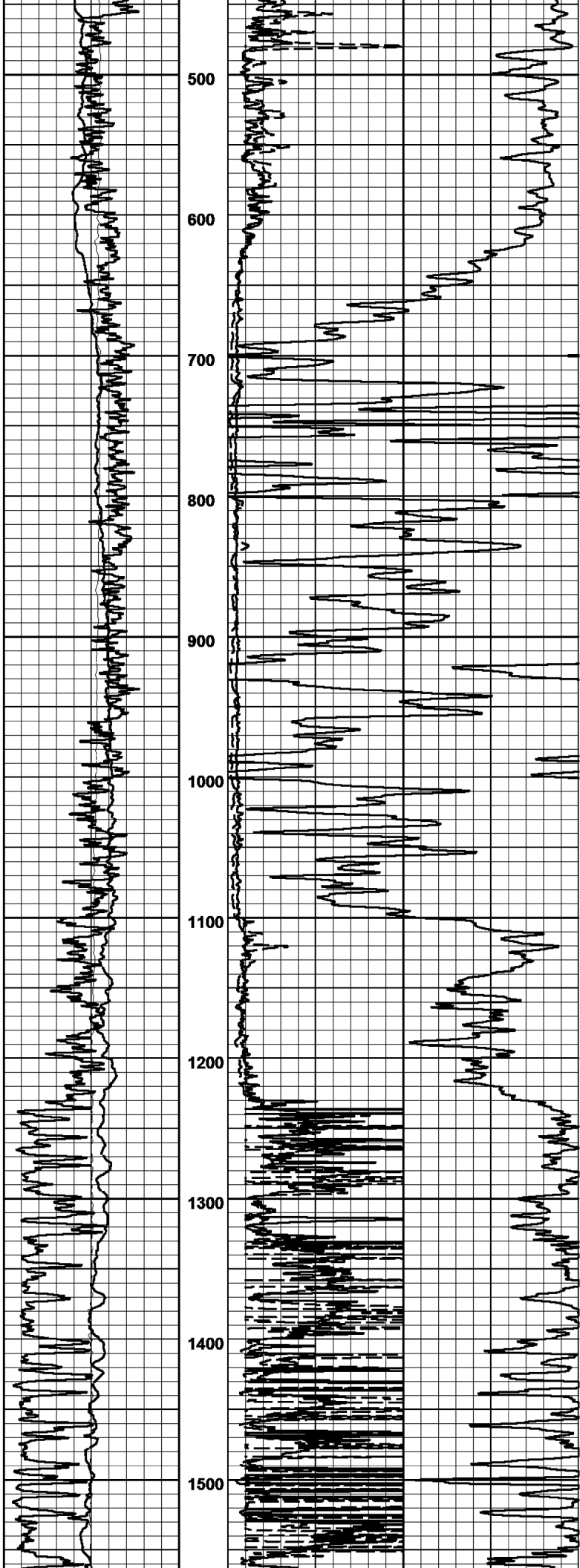
| GAMMA RAY CALIBRATION |              |                     |                             |                  |                  |
|-----------------------|--------------|---------------------|-----------------------------|------------------|------------------|
| SERIAL NUM            | RG3011       |                     |                             |                  |                  |
| BLANKET NUM           | 1A           |                     |                             |                  |                  |
| MASTER CALIBRATIONS   |              |                     |                             |                  |                  |
|                       | BackGrnd     | CalVal: 135.000 API | Gain/Offset                 | CALIBRATION DATE | CALIBRATION TIME |
| BASE CALS             | 63.747 - raw | 438.653 - raw       | 0.360 - gain<br>0.000 - off | M/D/Y> 8/27/2013 | H:M:S> 15:31:34  |

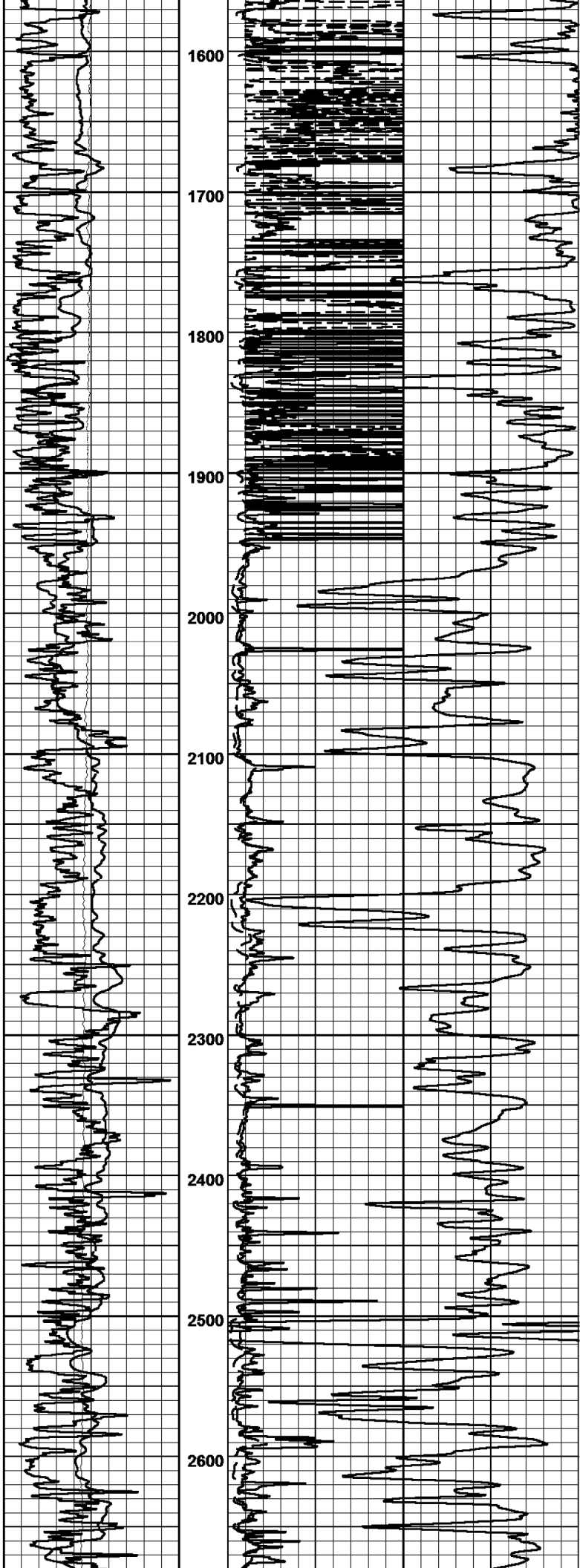
|         |                         |
|---------|-------------------------|
| Company | VAUGHN GOOD OIL COMPANY |
| Well    | NUSSER #5-16            |
| Field   | S.E. HARDTNER           |
| County  | BARBER                  |
| State   | KANSAS                  |

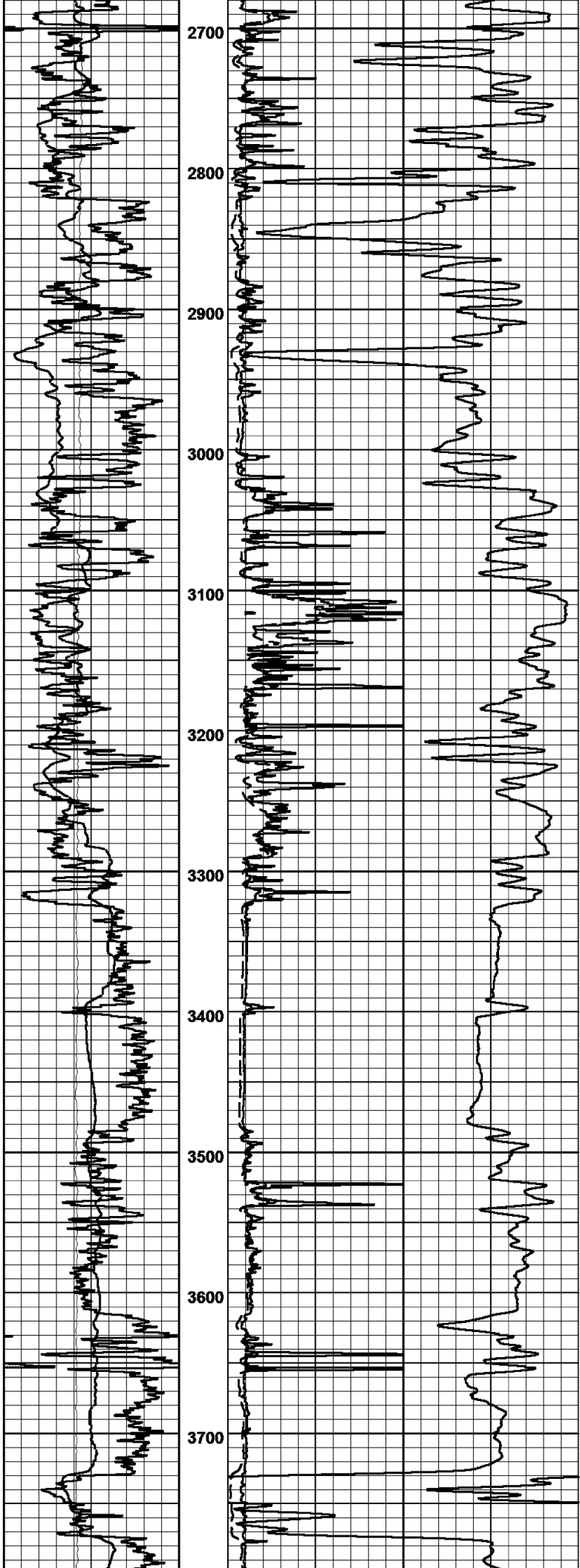


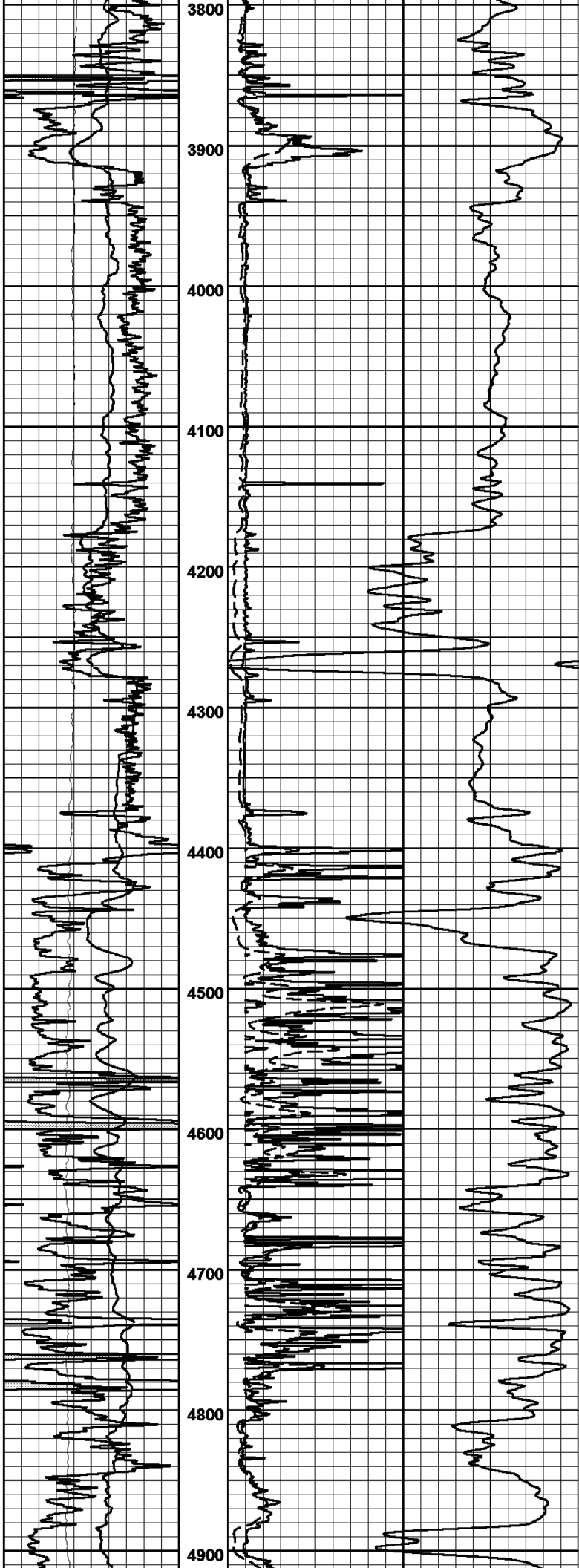
DUAL INDUCTION  
 LATEROLOG - SP  
 GAMMA RAY

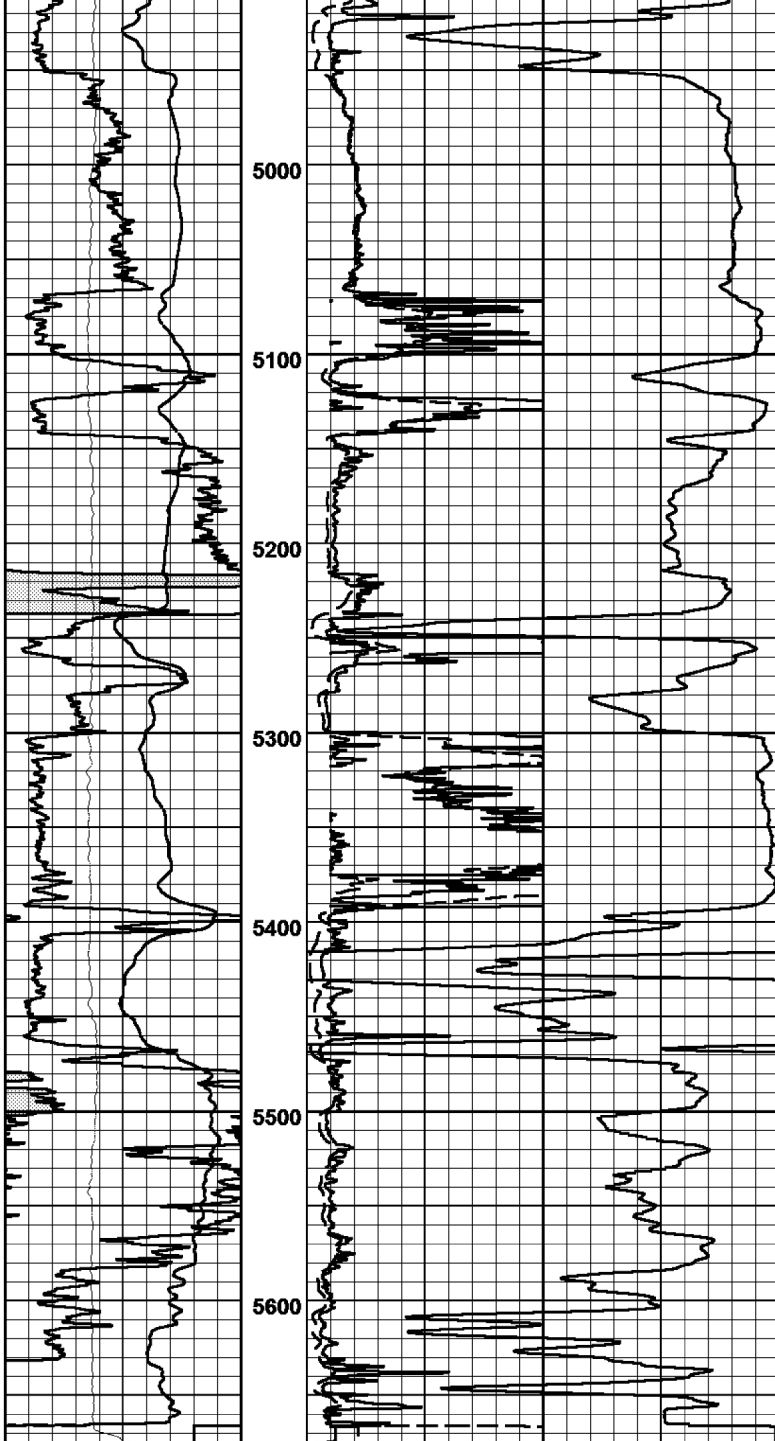












|                            |          |                       |          |
|----------------------------|----------|-----------------------|----------|
| Gamma Ray (GR)             |          | Deep Induction (CILD) |          |
| 0.                         | API 150. | 1000.                 | mmhos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

09/15/2013 MAIN PASS (1"/100FT) Log UP - (VER 11.14a)  
 14:04:48 => Start Time Start Depth=> 5676.50 Feet



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 Ltd.