# DUAL INDUCTION LL3/GR LOG

Company T & R OIL COMPANY
Well DENTON # 15
Field GRAND SUMMIT
County COWLEY State KANSAS

Location: API # : 15-035-24603-0000
E/2 SW SE SE
330' FSL & 690' FEL
SEC 4 TWP 31S RGE 8E

Other Services
CDL/SWN, MEL

Elevation
K.B. 1432'
D.F. 1431'
G.L. 1428'

Permanent Datum GL Elevation 1428'
Log Measured From KB
Drilling Measured From KB

Company T & R OIL COMPANY
Well DENTON # 15
Field GRAND SUMMIT
County COWLEY
State KANSAS

| | | | |
|---|---|---|---|
| Date | 9-27-2014 | | |
| Run Number | ONE | | |
| Depth Driller | 3100' | | |
| Depth Logger | 3098' | | |
| Bottom Logged Interval | 3096' | | |
| Top Log Interval | SURFACE | | |
| Casing Driller | 8 5/8" @ 213' | | |
| Casing Logger | 8 5/8" @ 213' | | |
| Bit Size | 7 7/8" | | |
| Type Fluid in Hole | CHEM-GEL | | |
| Density / Viscosity | 9.2 / 55 | | |
| pH / Fluid Loss | 10.0 / 10.8 | | |
| Source of Sample | FLOWLINE | | |
| Rm @ Meas. Temp | 1.40 @ 75 | | |
| Rmf @ Meas. Temp | 1.62 @ 75 | | |
| Rmc @ Meas. Temp | 1.22 @ 75 | | |
| Source of Rmf / Rmc | CAL | | |
| Rm @ BHT | 1.02 @ 107 | | |
| Time Circulation Stopped | 6:00 AM | | |
| Time Logger on Bottom | 10:45 AM | | |
| Maximum Recorded Temperature | 107 | | |
| Equipment Number | OW2 | | |
| Location | HOMINY ,OK | | |
| Recorded By | LOWERY | | |
| Witnessed By | MR. PATTESON | | |

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All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, damages, or expenses incurred or sustained by anyone resulting from any interpretation made by any of our officers, agents or employees. These interpretations are also subject to our general terms and conditions set out in our current Price Schedule.

Comments

**OW2-8737**

**CREW : SHAMBLES**

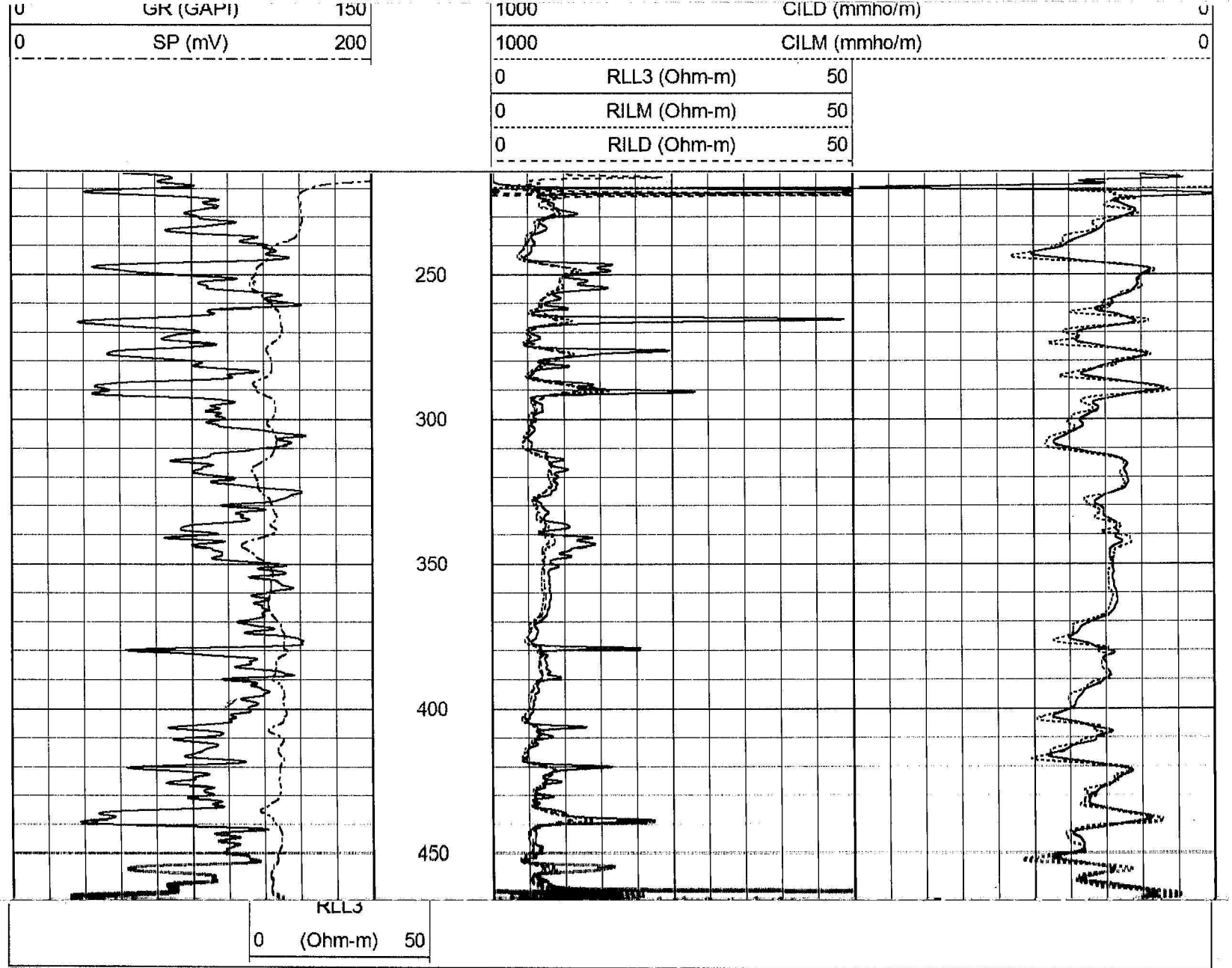


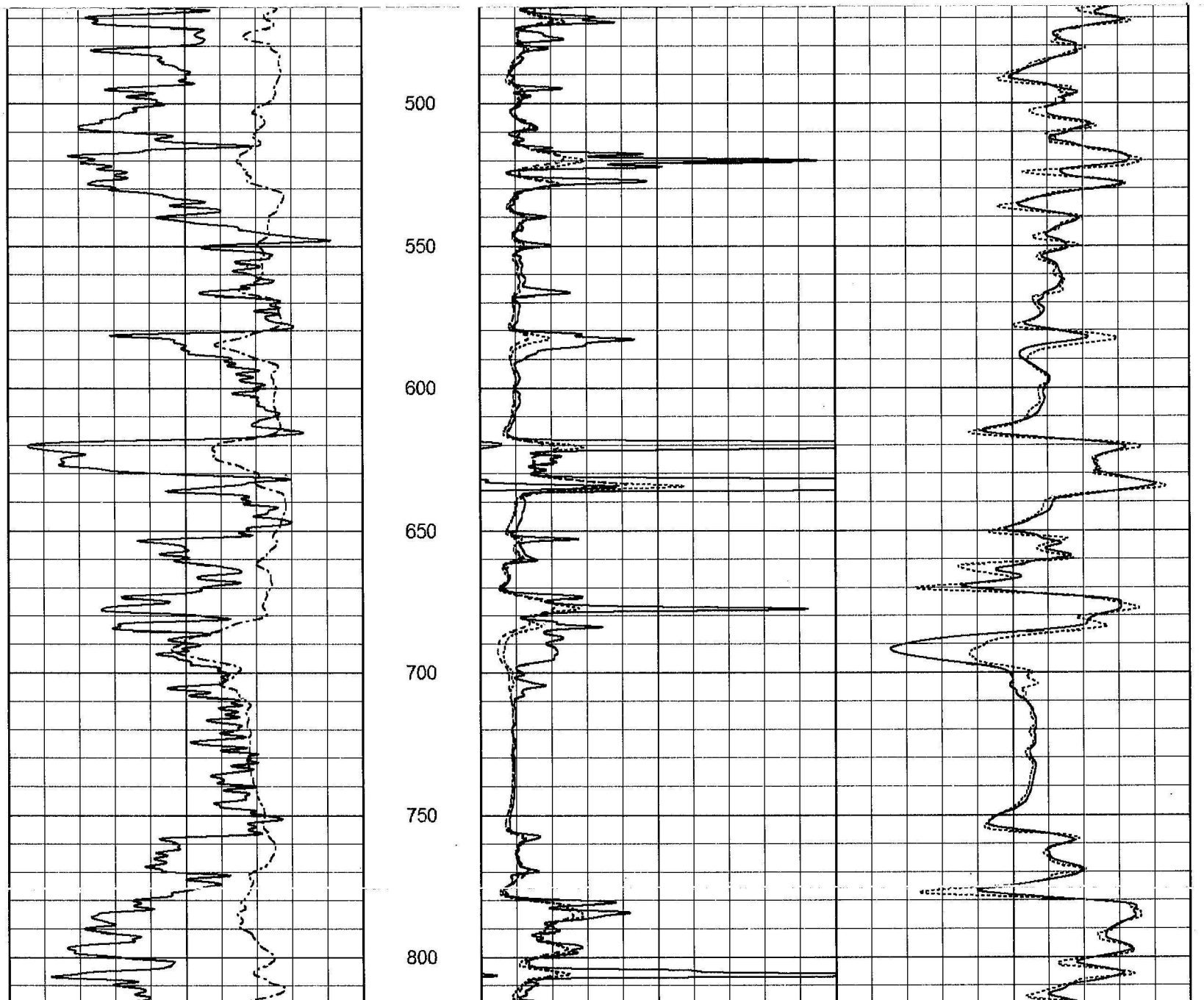

# 2" DIL SECTION

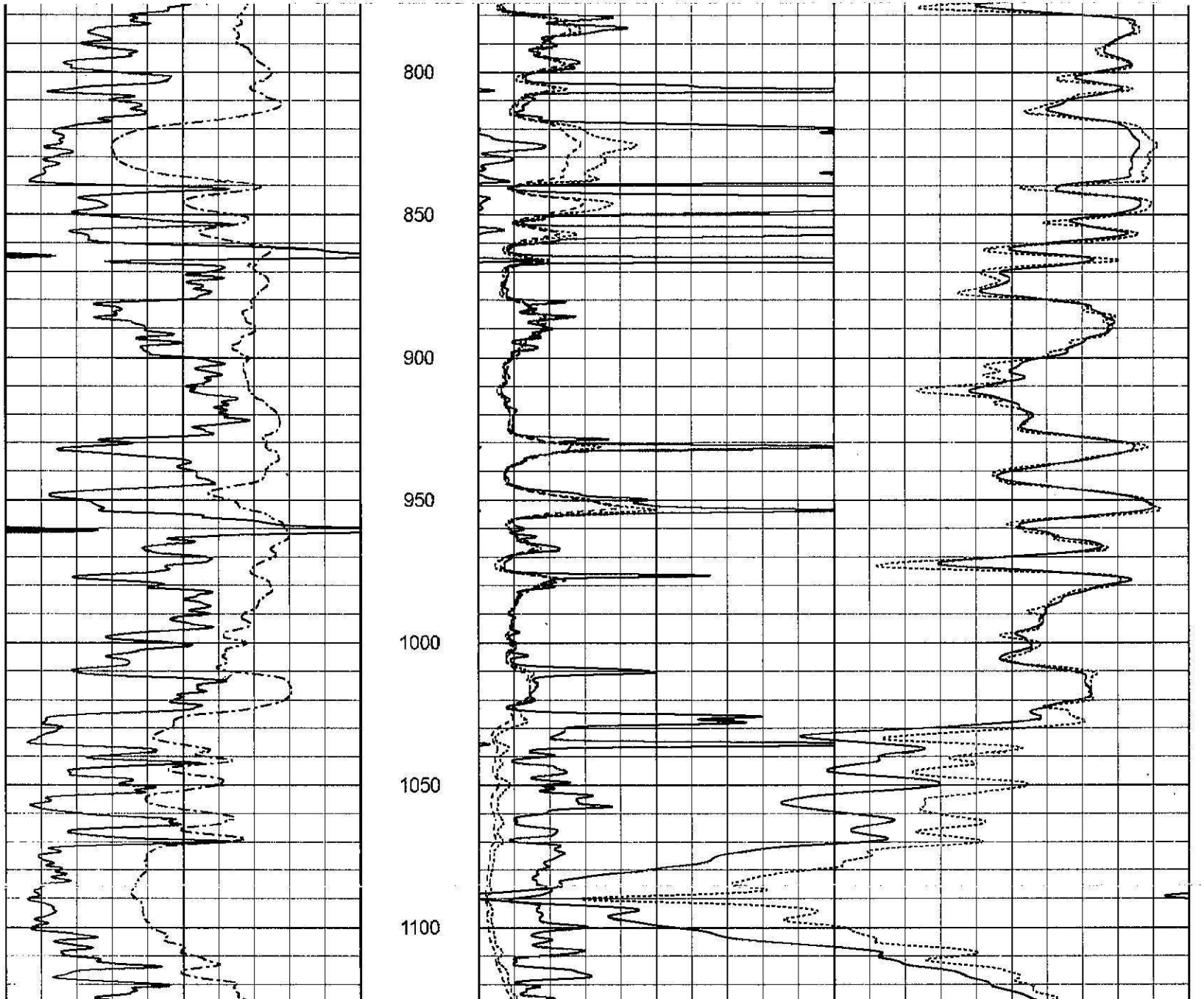
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| Presentation Format | dil2mdcol |
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| Charted by | Depth in Feet scaled 1:600 |

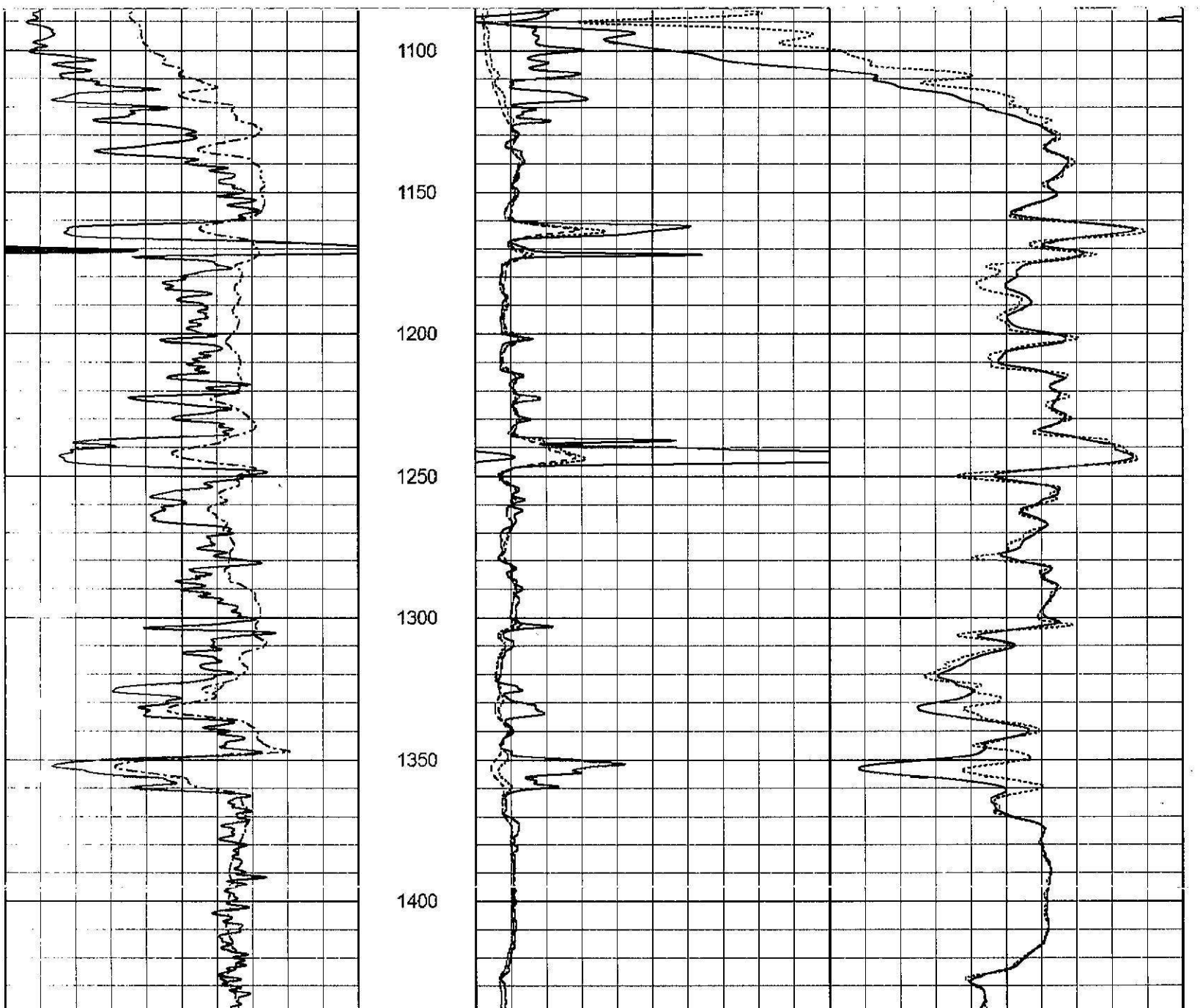
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|---|---|---|
| 0 | GR (GAPI) | 150 |
| 0 | SP (mV) | 200 |

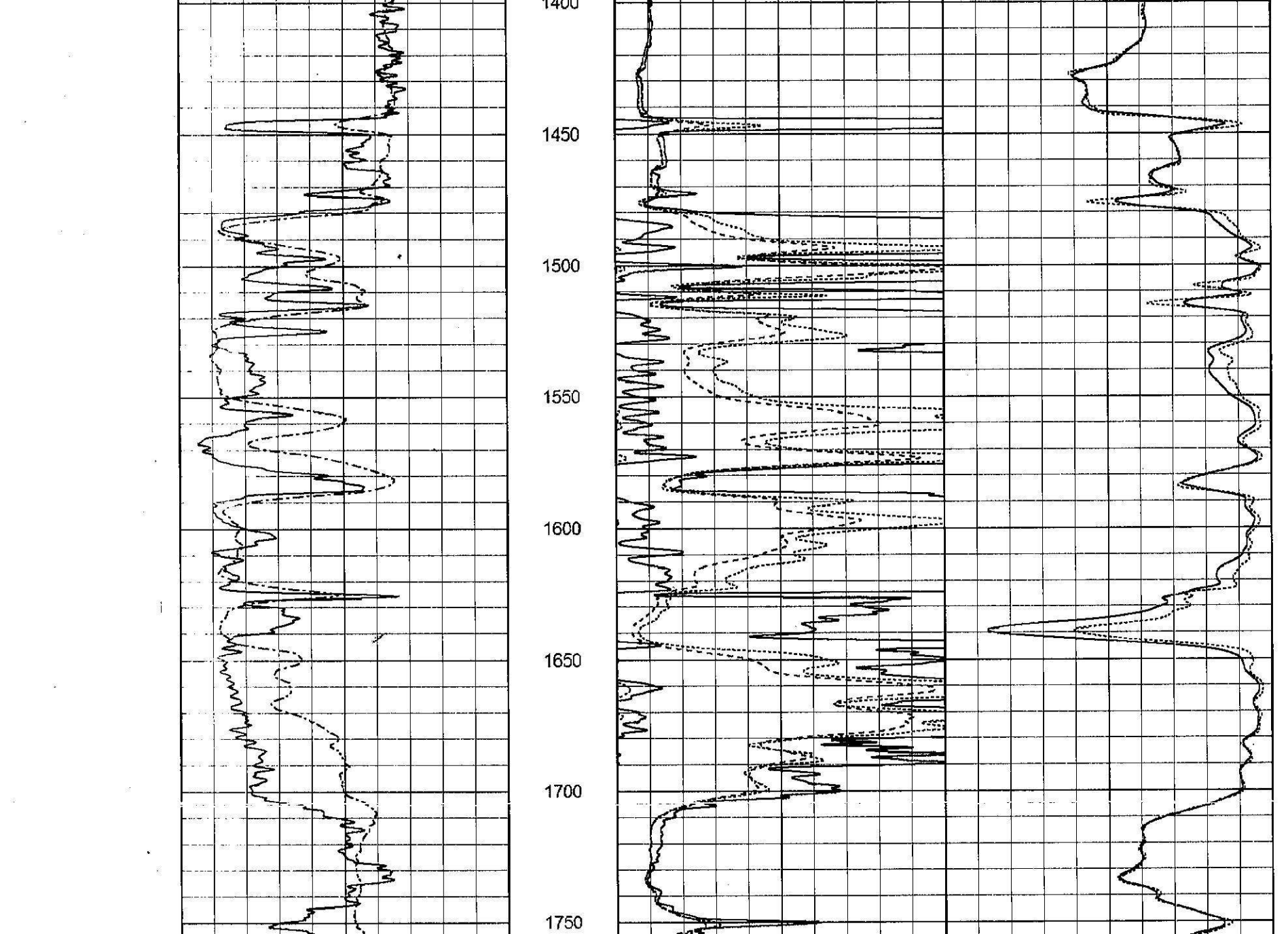
| | | |
|---|---|---|
| 1000 | CILD (mmho/m) | 0 |
| 1000 | CILM (mmho/m) | 0 |
| 0 | RLL3 (Ohm-m) | 50 |
| 0 | RILM (Ohm-m) | 50 |

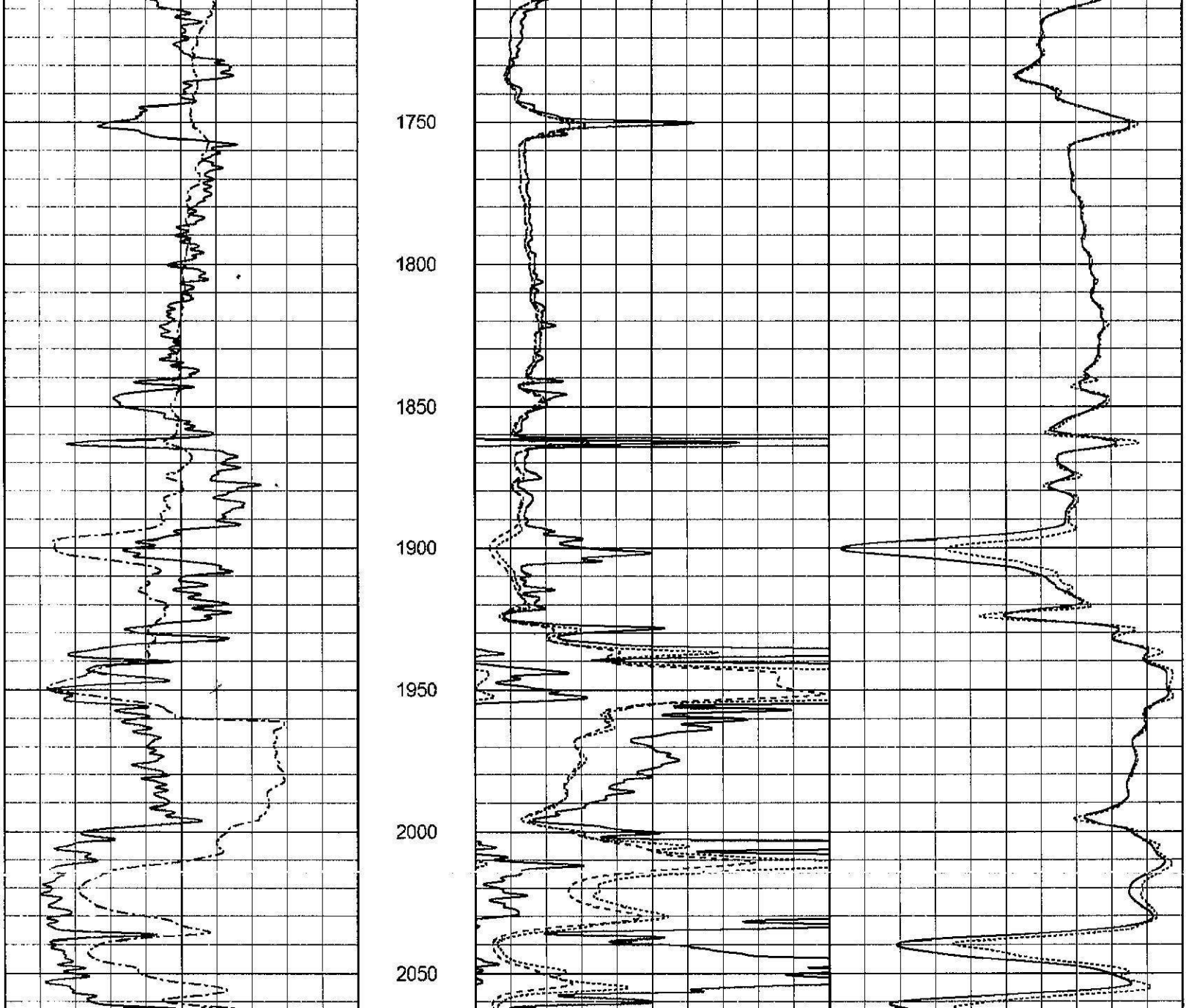

0 GR (GAPI) 150
0 SP (mV) 200
1000 CILD (mmho/m) 0
1000 CILM (mmho/m) 0
0 RLL3 (Ohm-m) 50
0 RILM (Ohm-m) 50
0 RILD (Ohm-m) 50
250
300
350
400
450
RLL3
0 (Ohm-m) 50

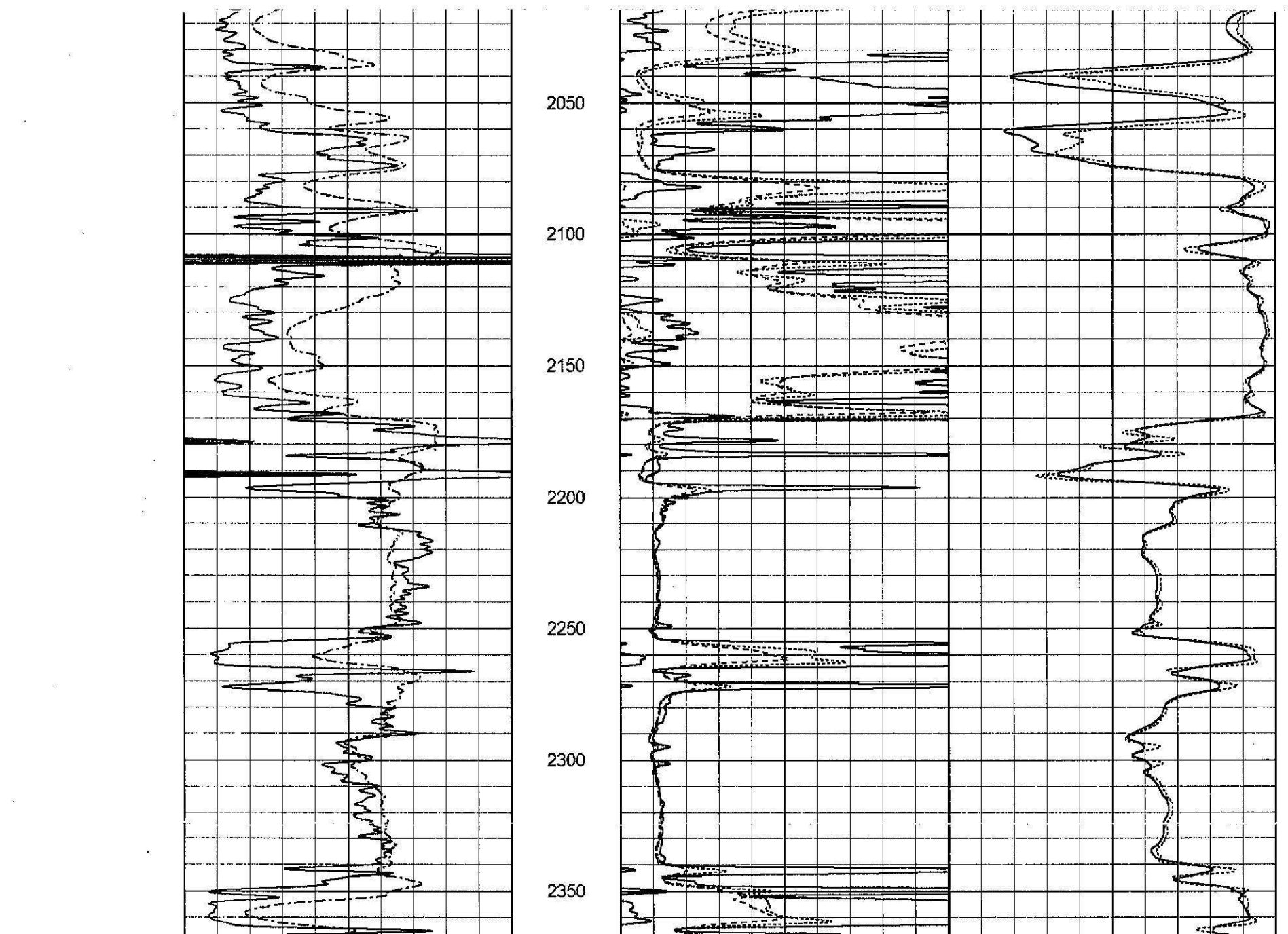

500
550
600
650
700
750
800

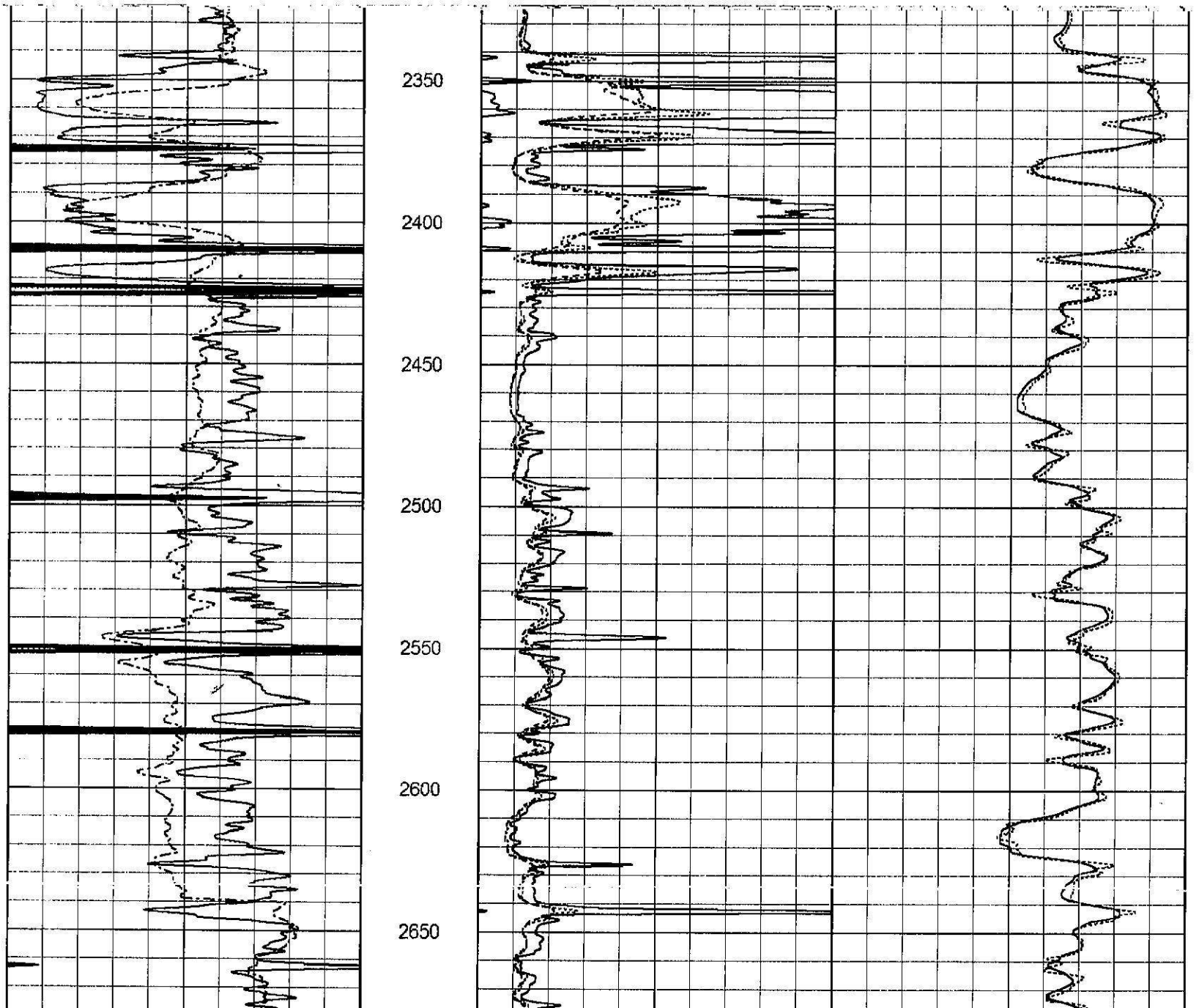

800
850
900
950
1000
1050
1100

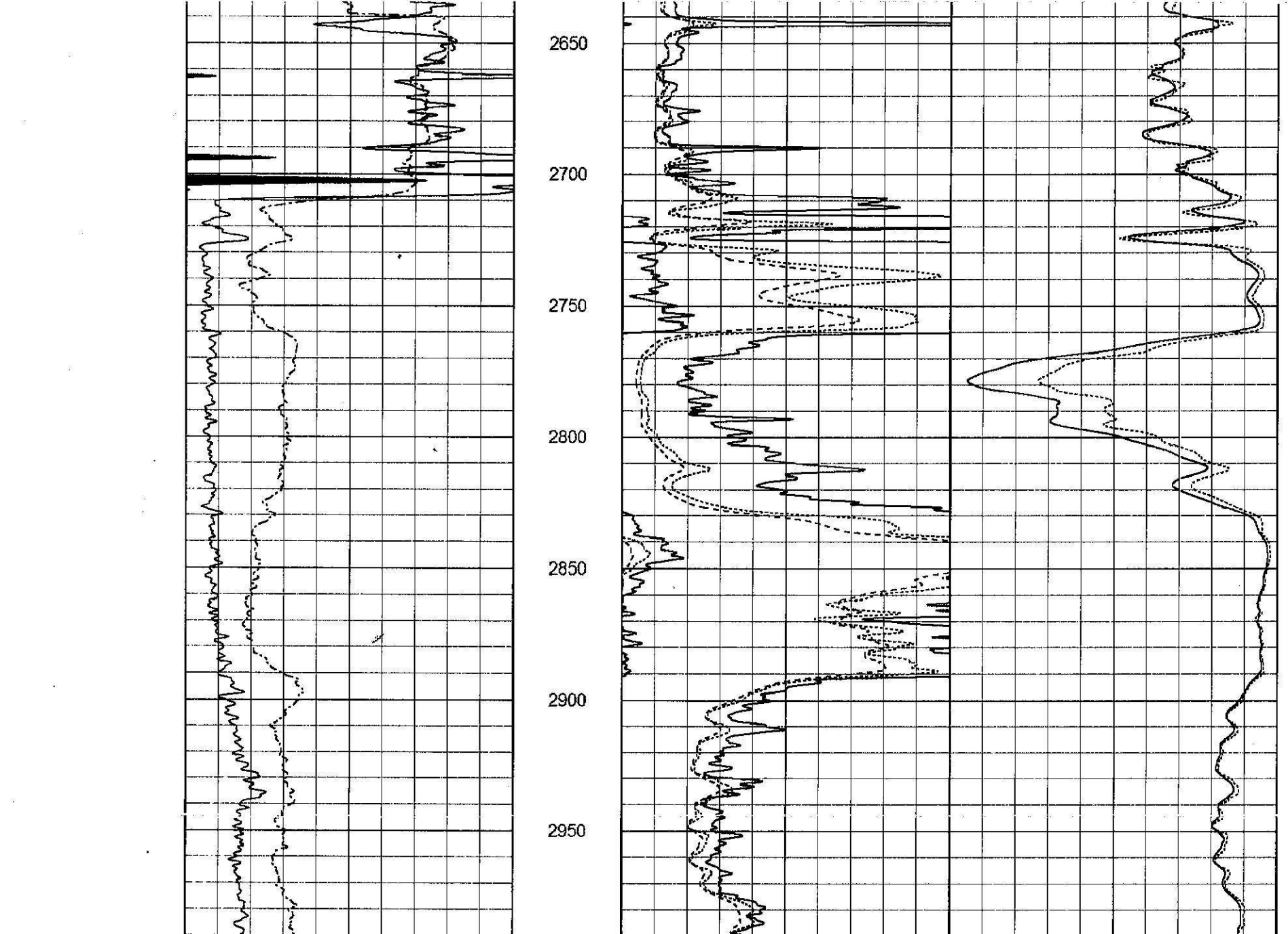

1100
1150
1200
1250
1300
1350
1400

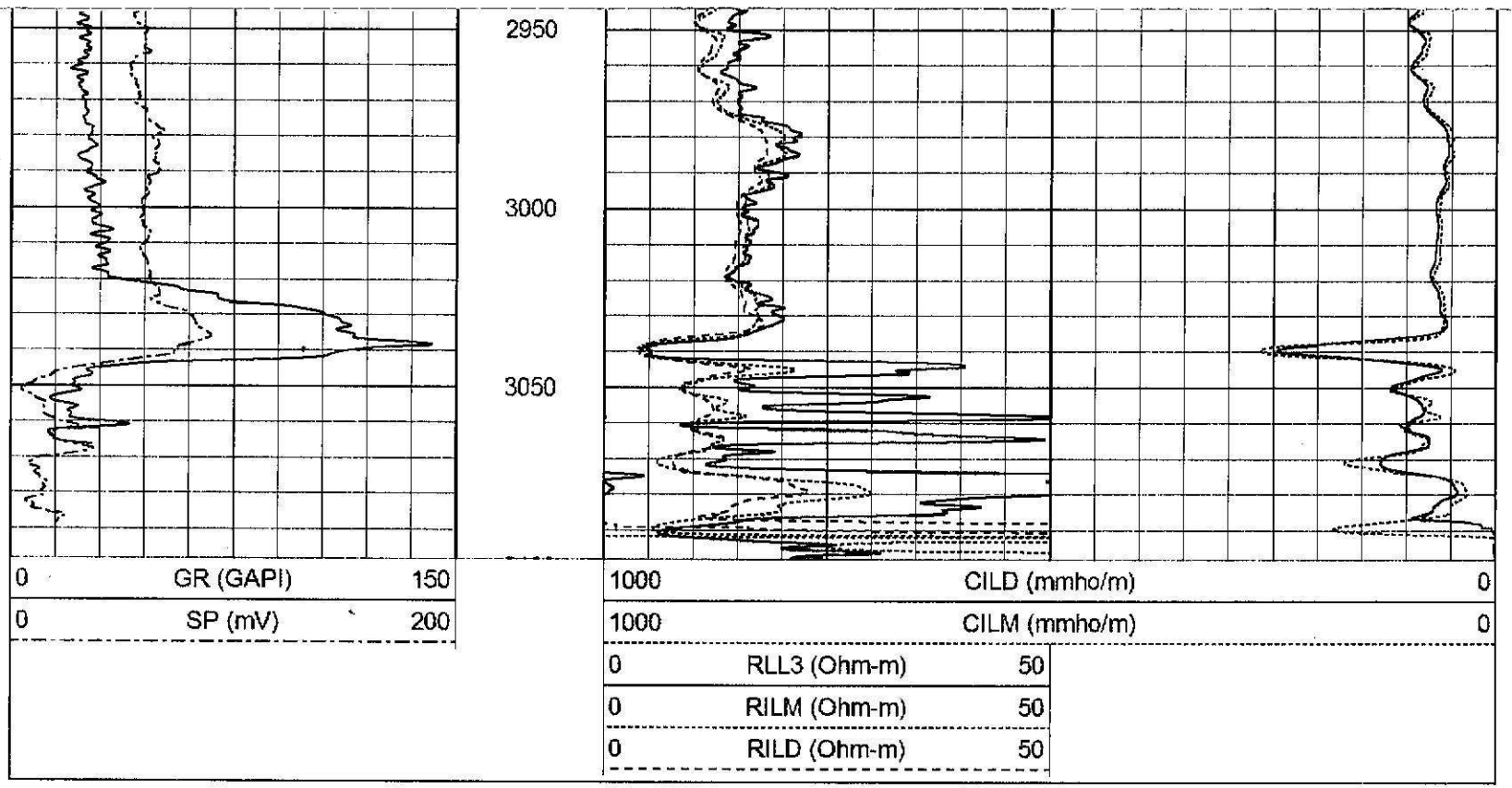

1400
1450
1500
1550
1600
1650
1700
1750


1750
1800
1850
1900
1950
2000
2050


2050
2100
2150
2200
2250
2300
2350


2350
2400
2450
2500
2550
2600
2650


2650
2700
2750
2800
2850
2900
2950




OFFICE WIRELINE

# 5" DIL SECTION

| | |
|---|---|
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| Presentation Format | dil5mdcol |
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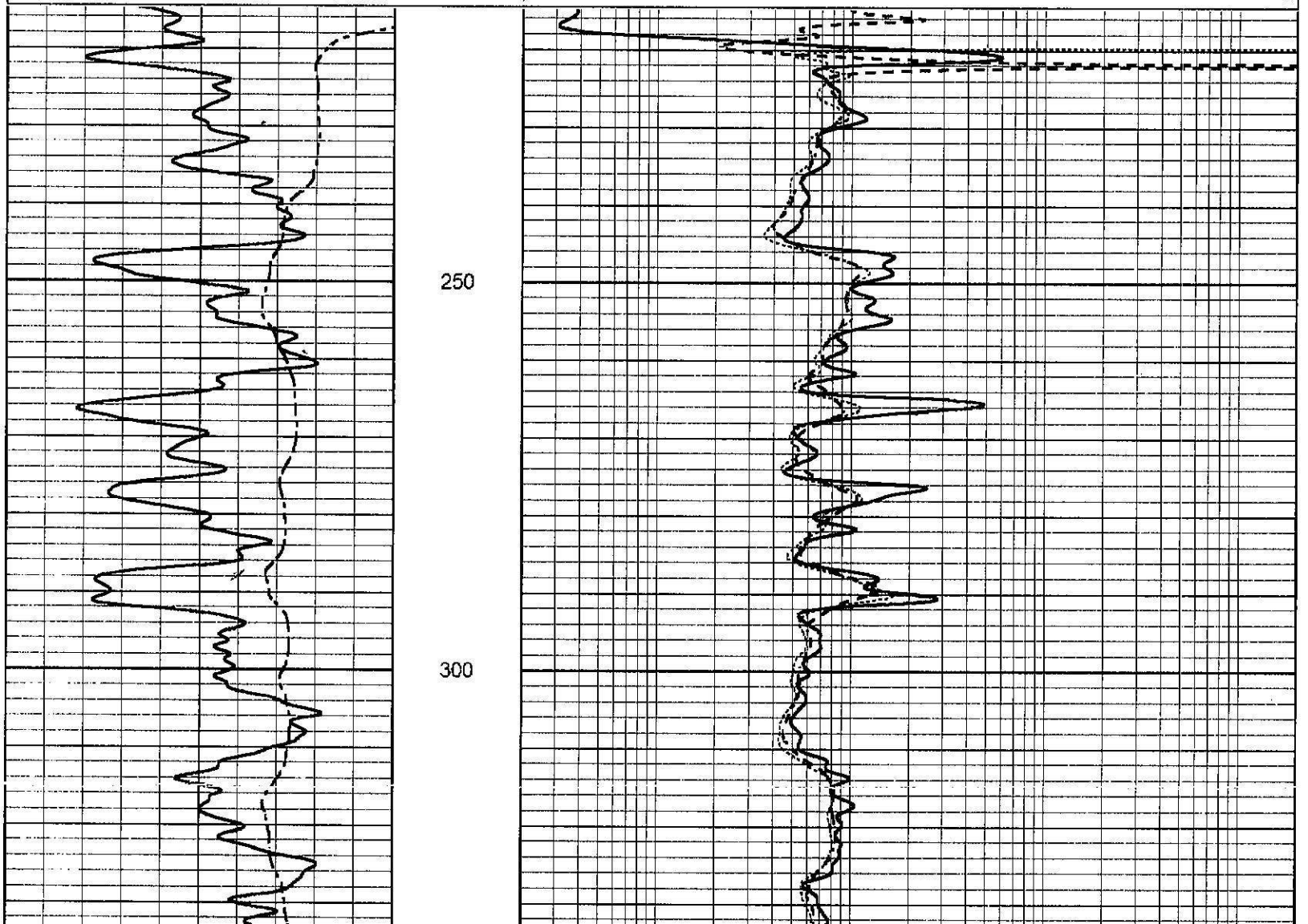
| | | |
|---|---|---|
| 0 | Gamma Ray (GAPI) | 150 |
| 0 | SP (mV) | 200 |

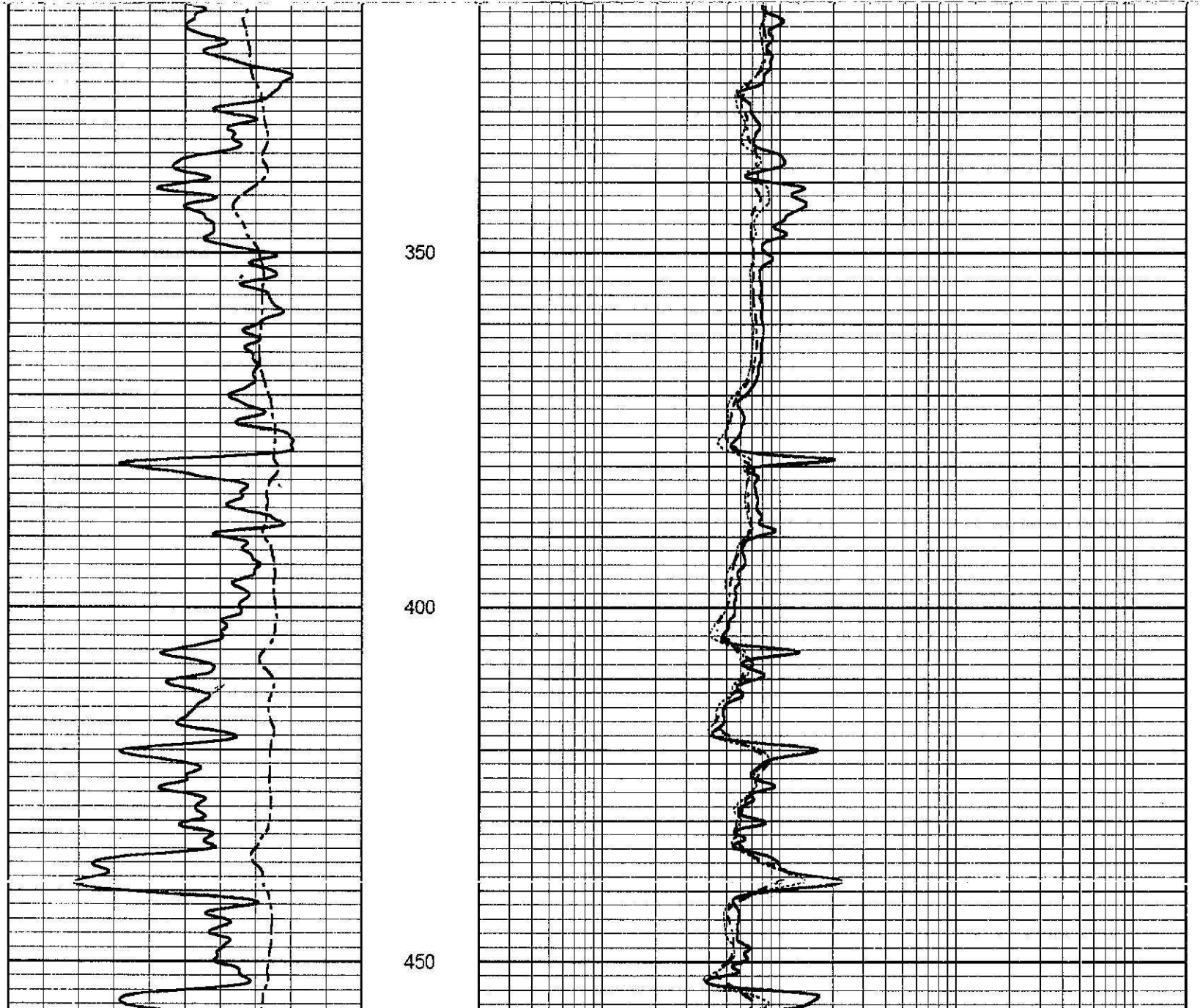
| | | |
|---|---|---|
| 0.2 | Deep Resistivity (Ohm-m) | 2000 |
| 0.2 | Medium Resistivity (Ohm-m) | 2000 |

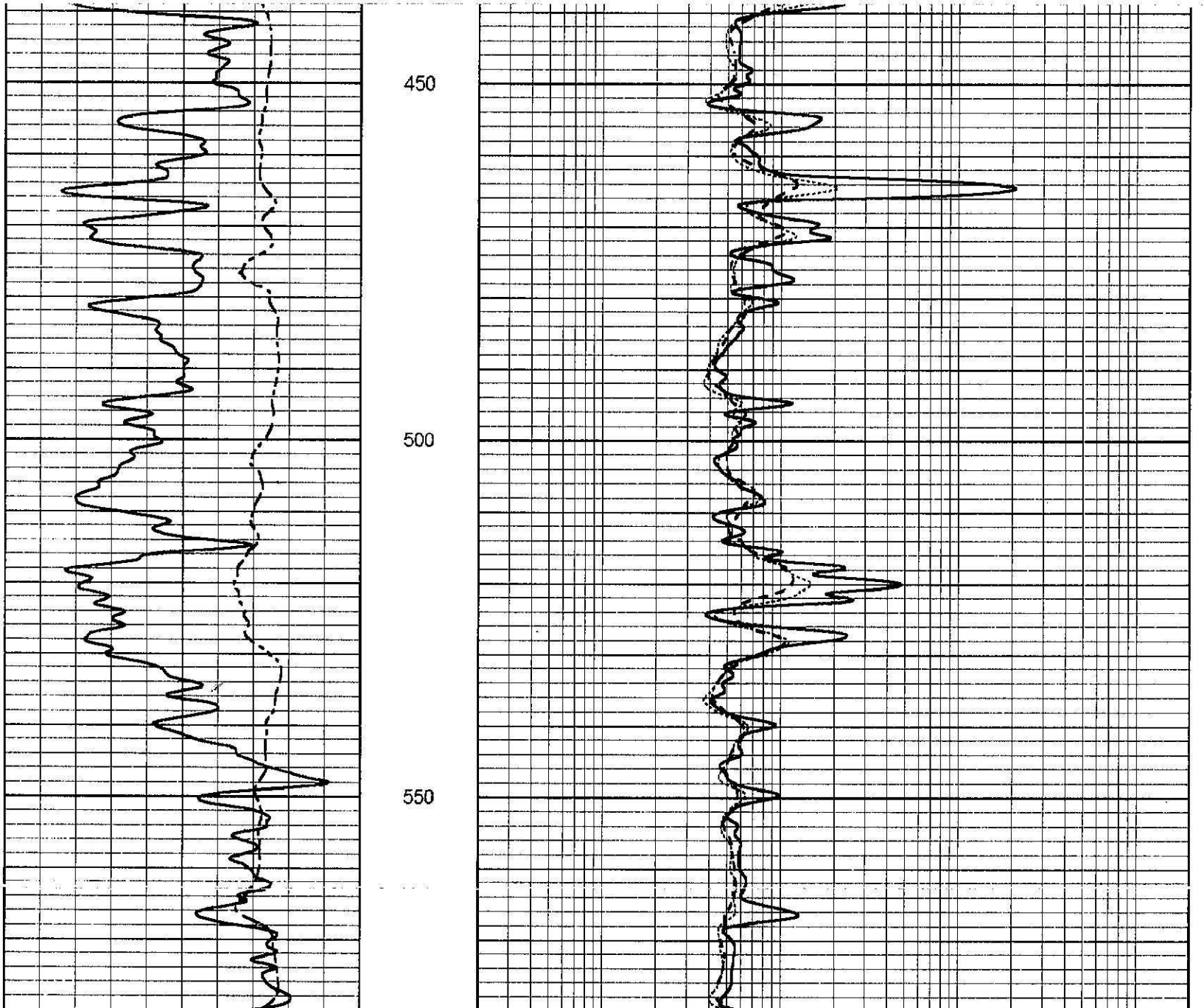
| | |
|---|---|
| Dataset Creation | Sat Sep 27 11:41:43 2014 |
| Charted by | Depth in Feet scaled 1:240 |

| | | |
|---|---|---|
| 0 | Gamma Ray (GAPI) | 150 |
| 0 | SP (mV) | 200 |

| | | |
|---|---|---|
| 0.2 | Deep Resistivity (Ohm-m) | 2000 |
| 0.2 | Medium Resistivity (Ohm-m) | 2000 |
| 0.2 | Shallow Resistivity (Ohm-m) | 2000 |



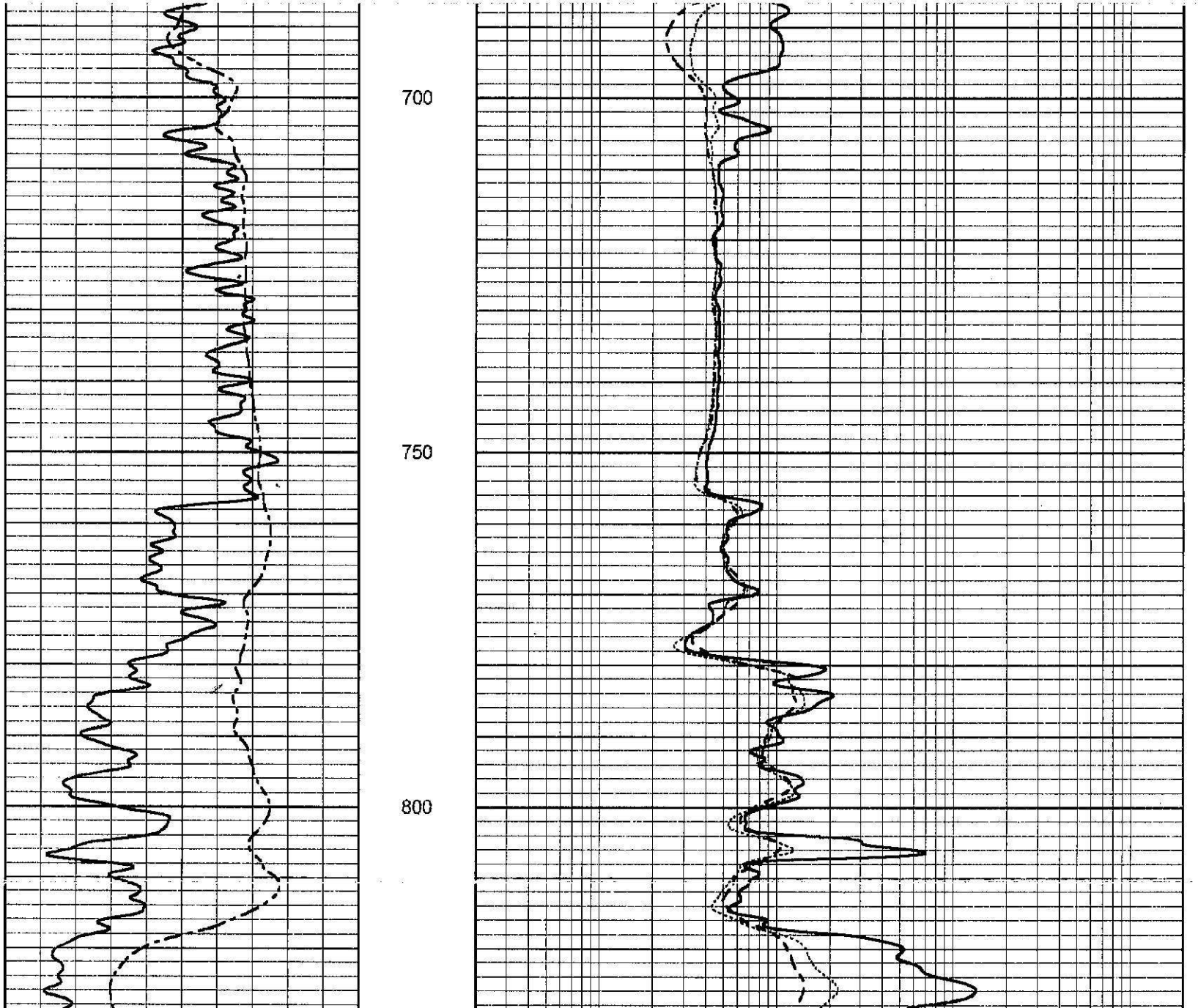

350
400
450


450
500
550

600

650

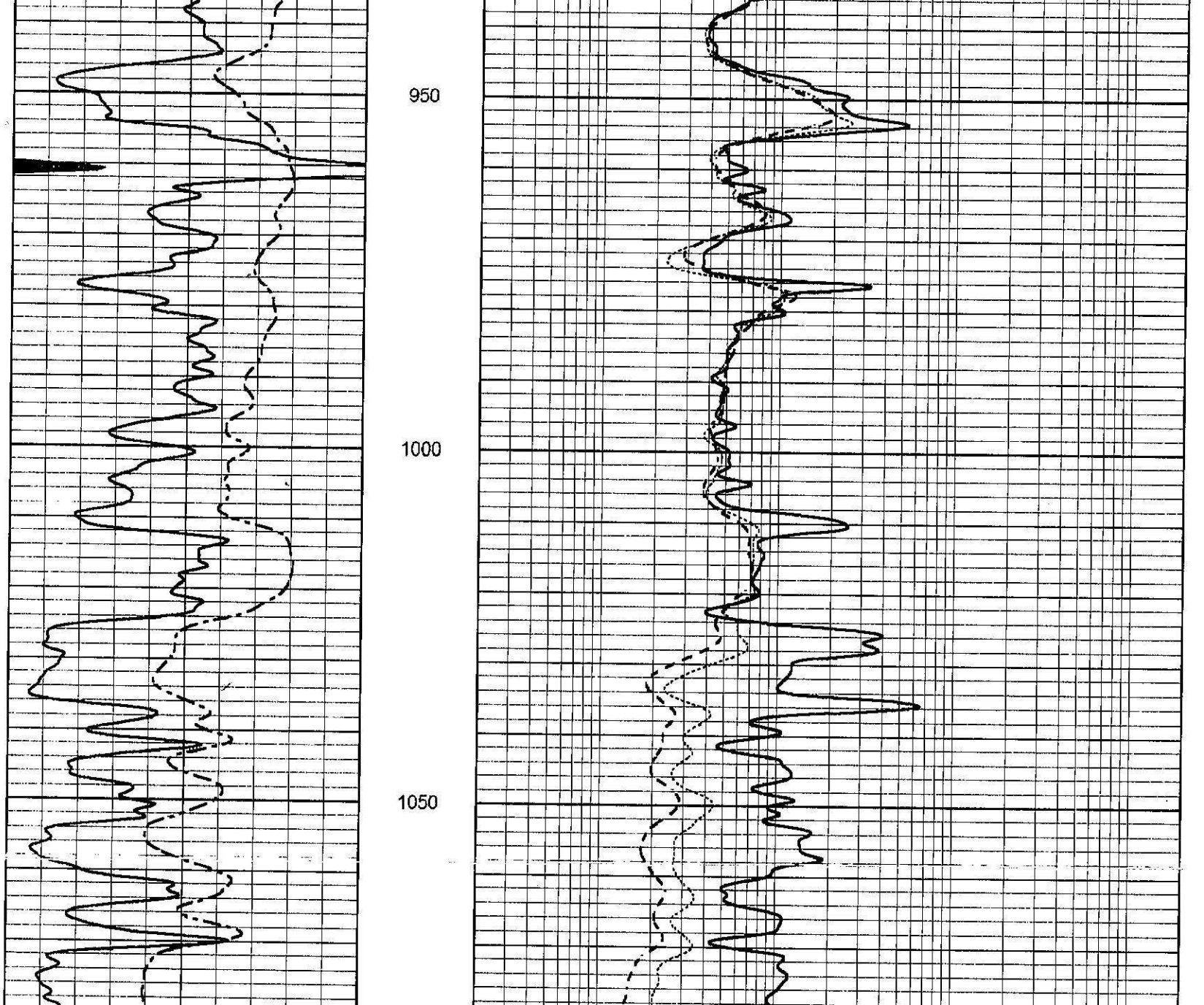
700

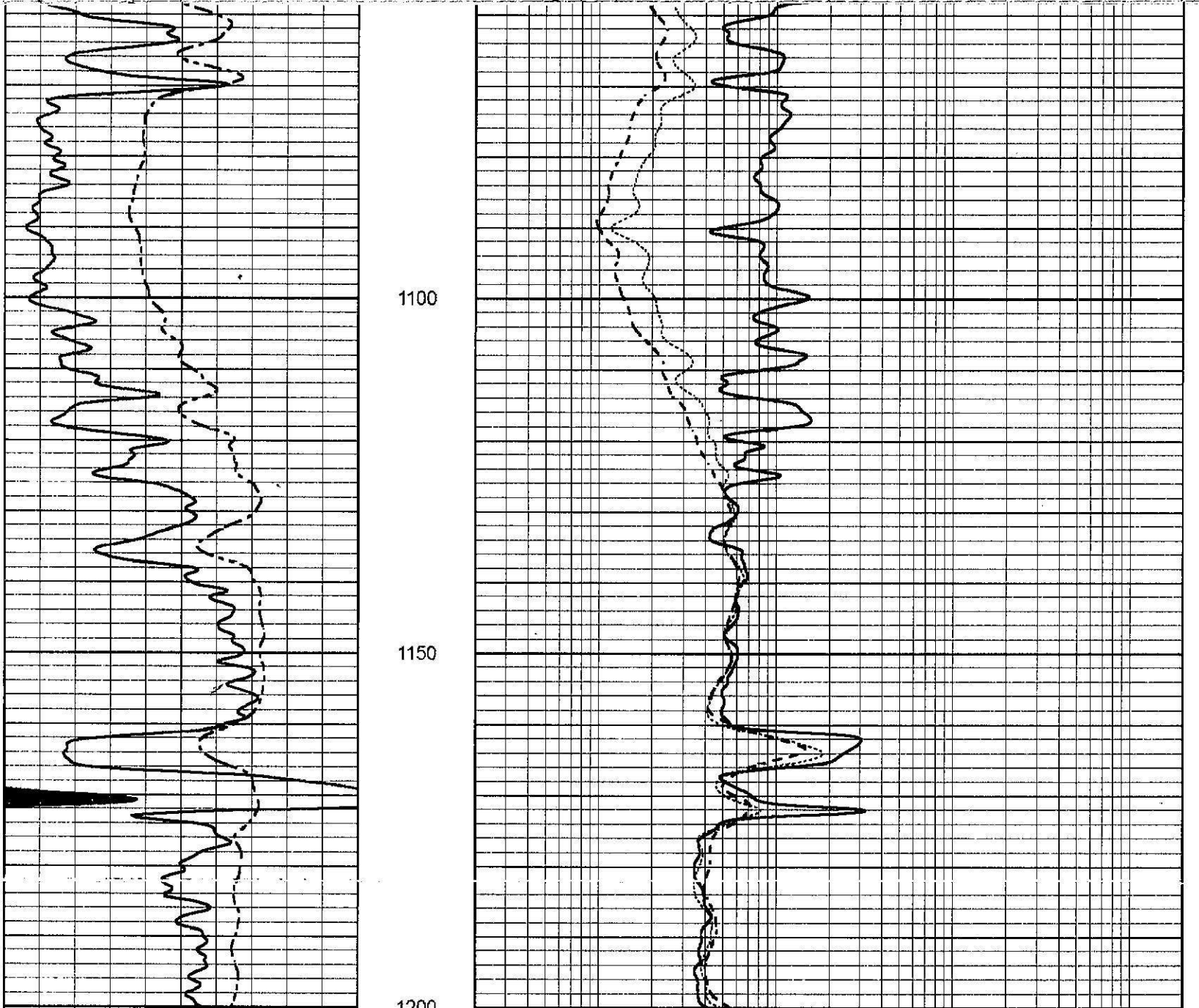

700
750
800

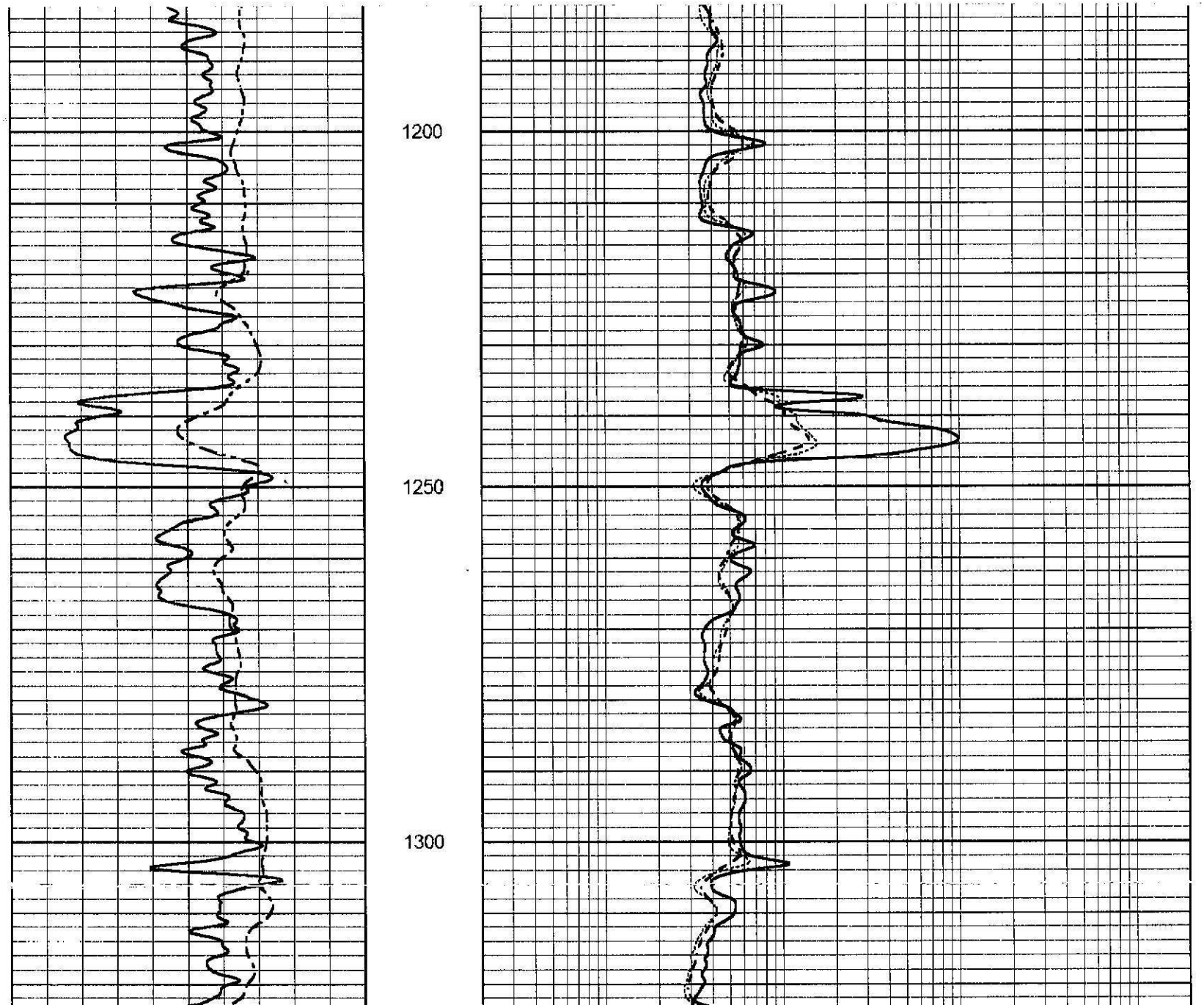
850

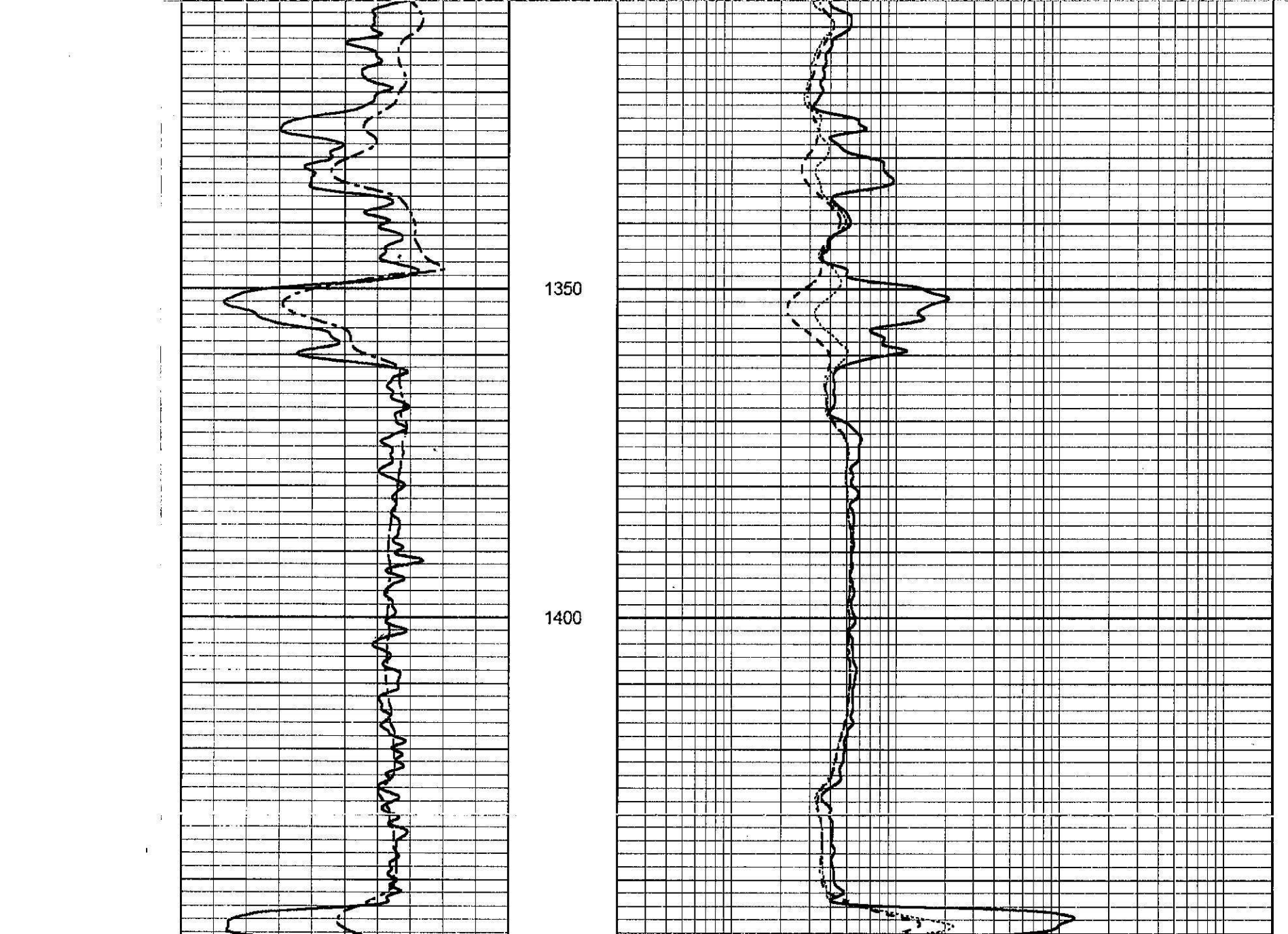
900

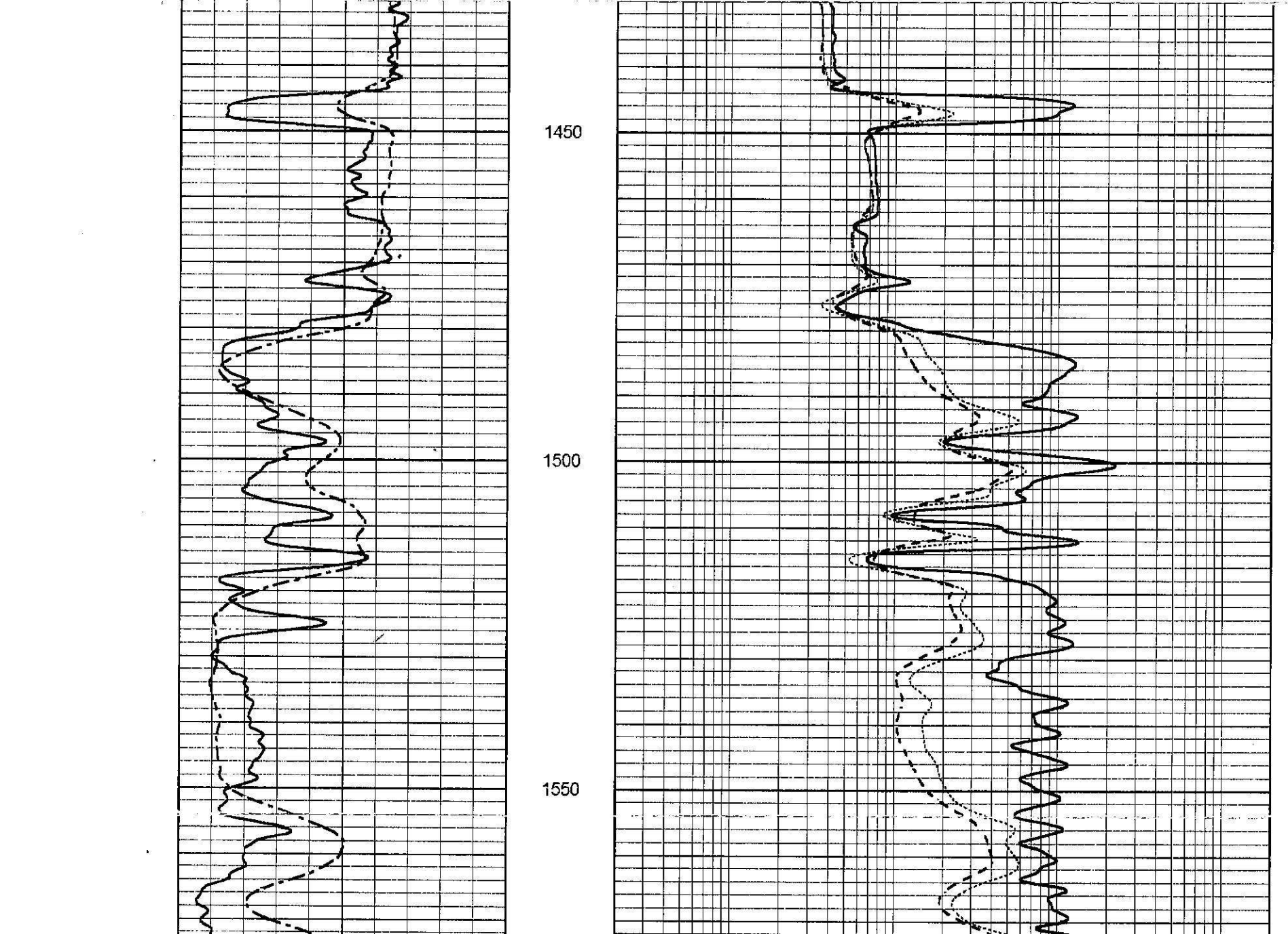
950

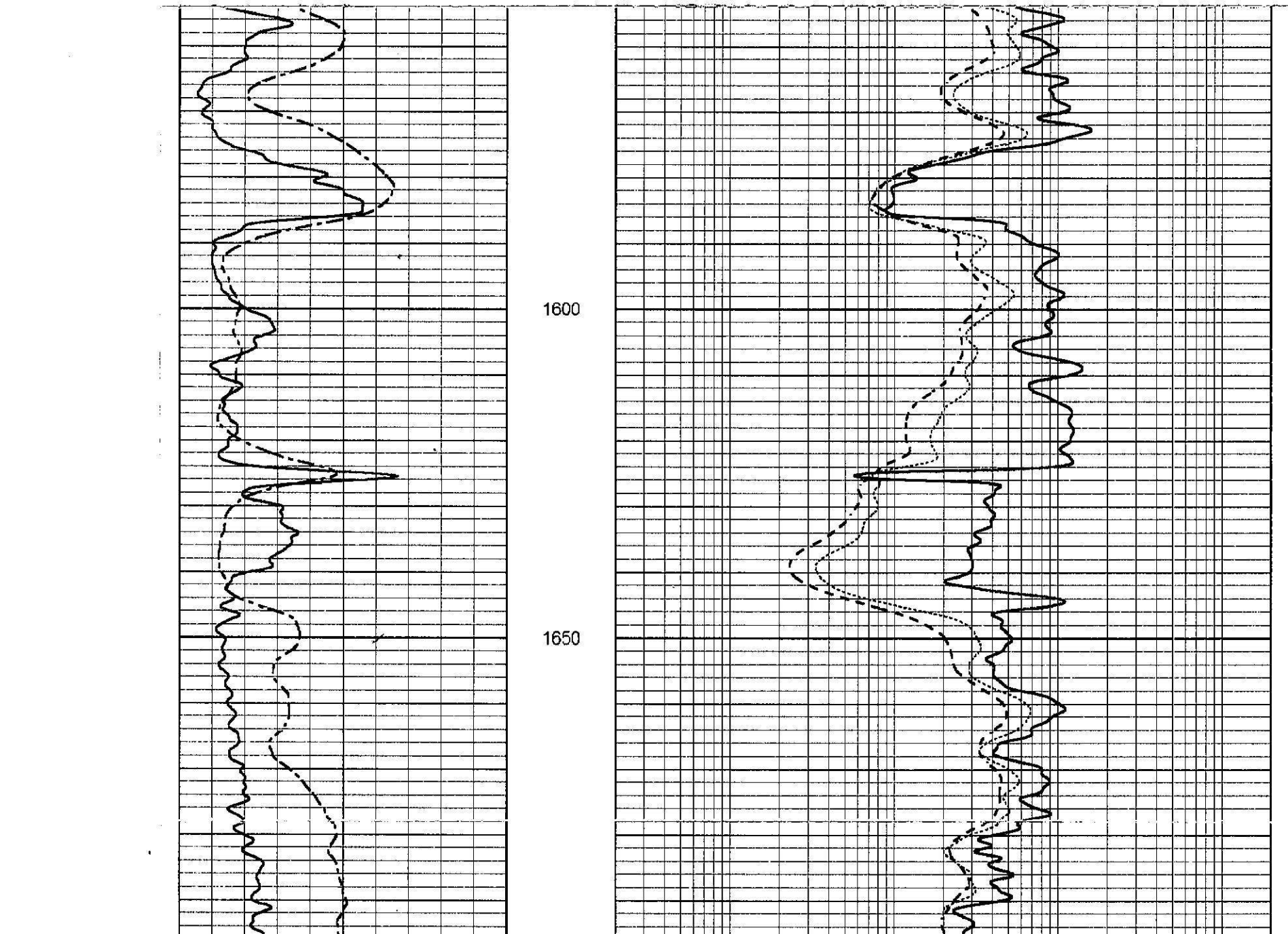

950
1000
1050

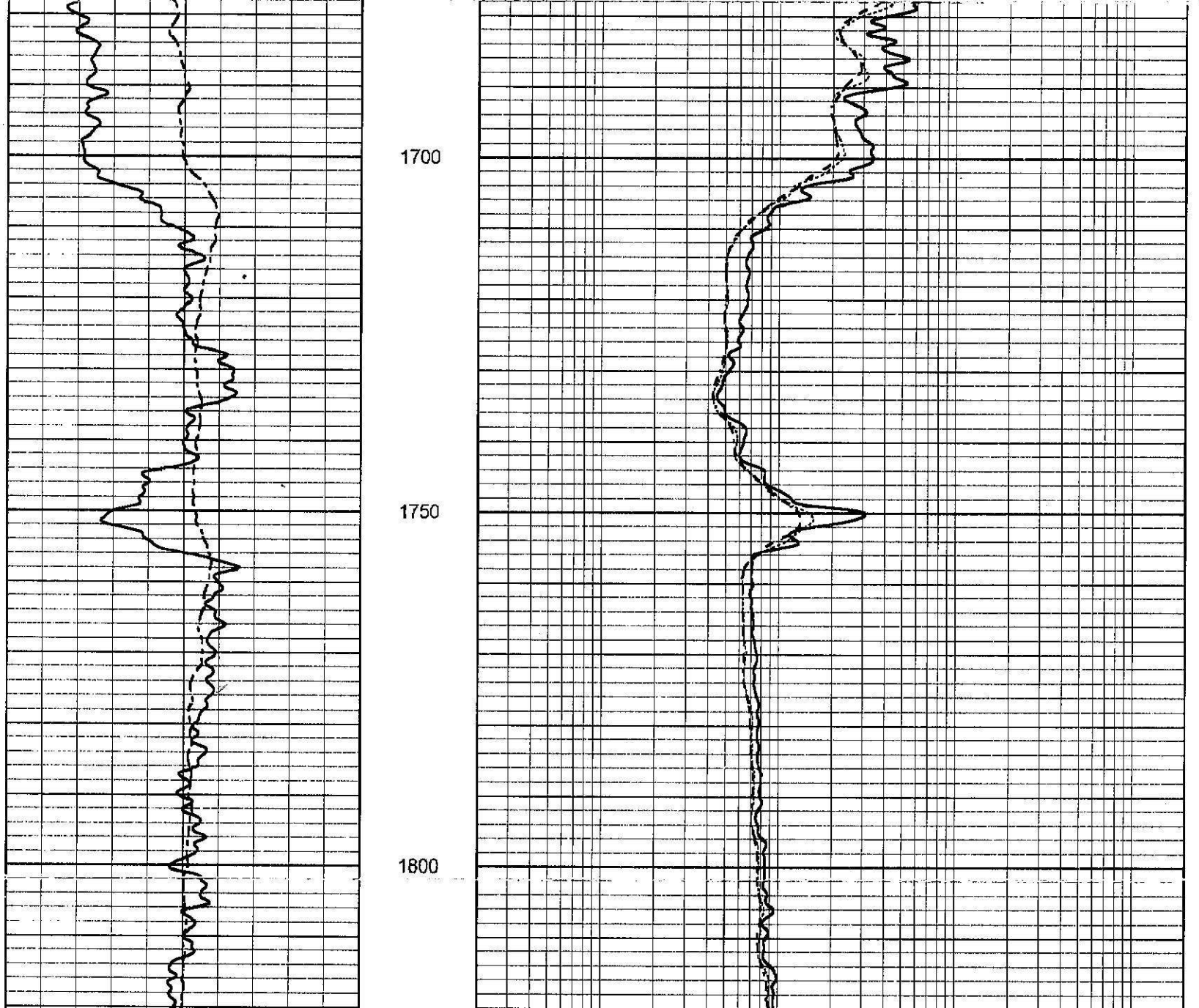

1100
1150
1200

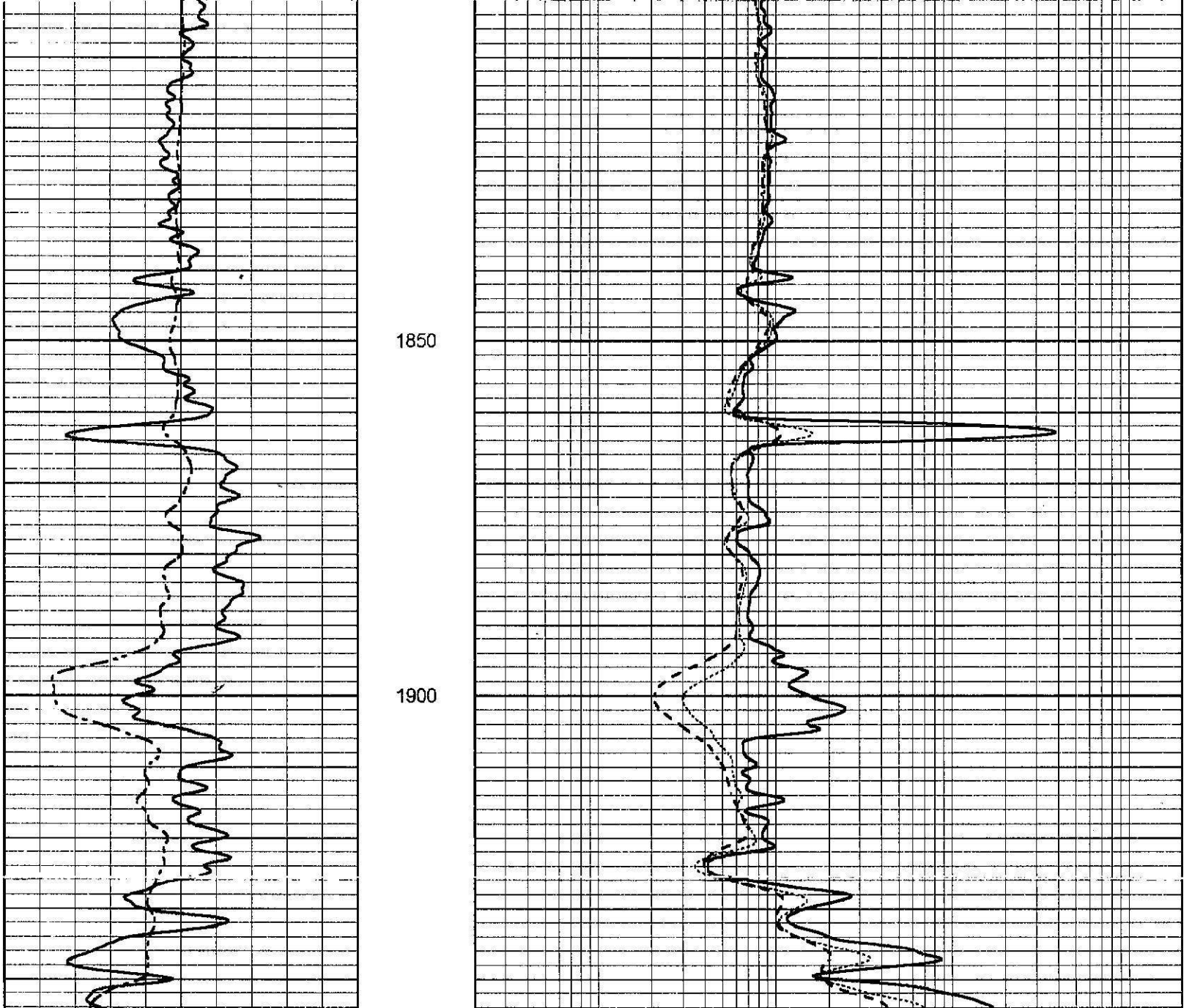

1200
1250
1300

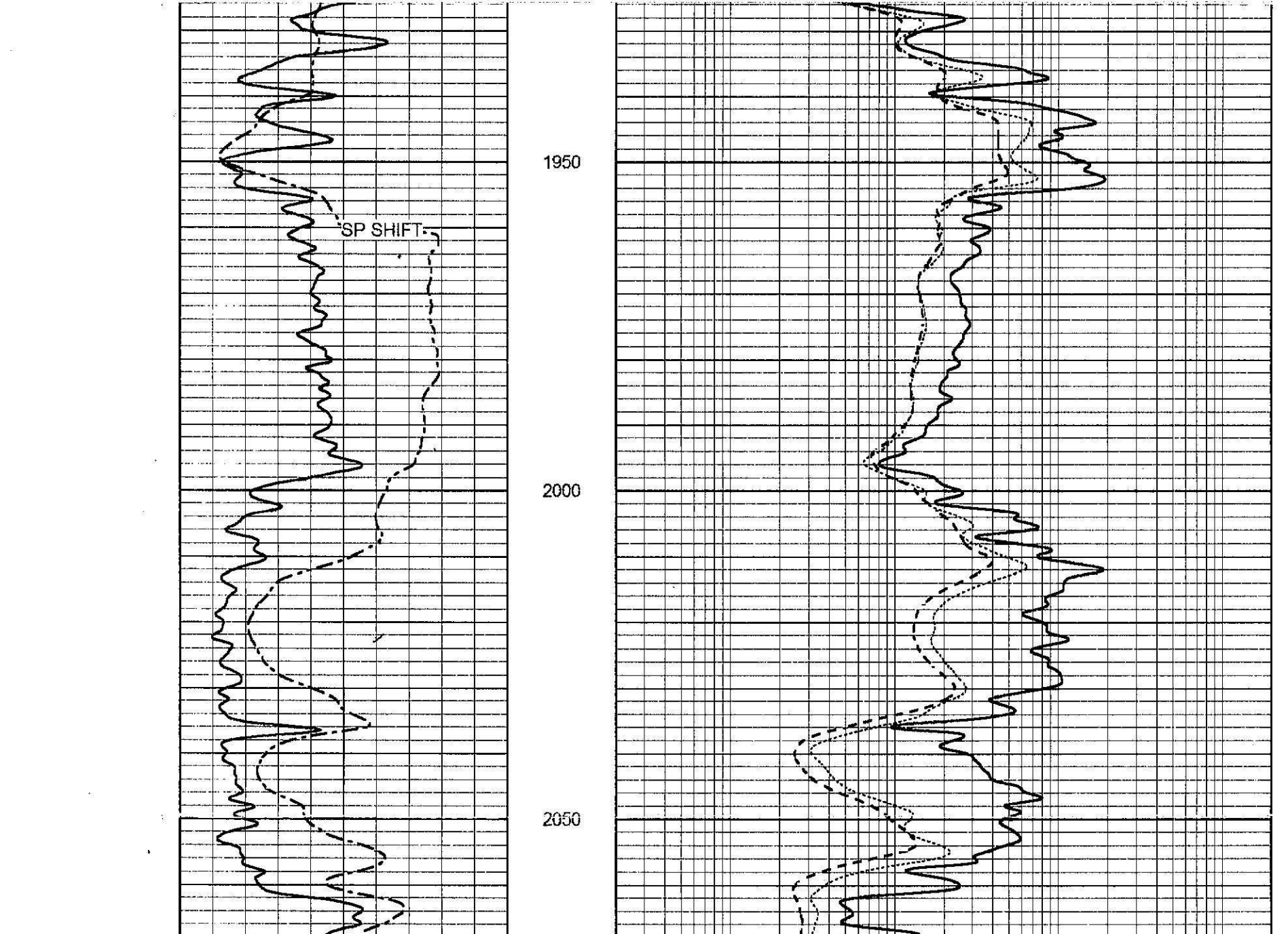

1350
1400

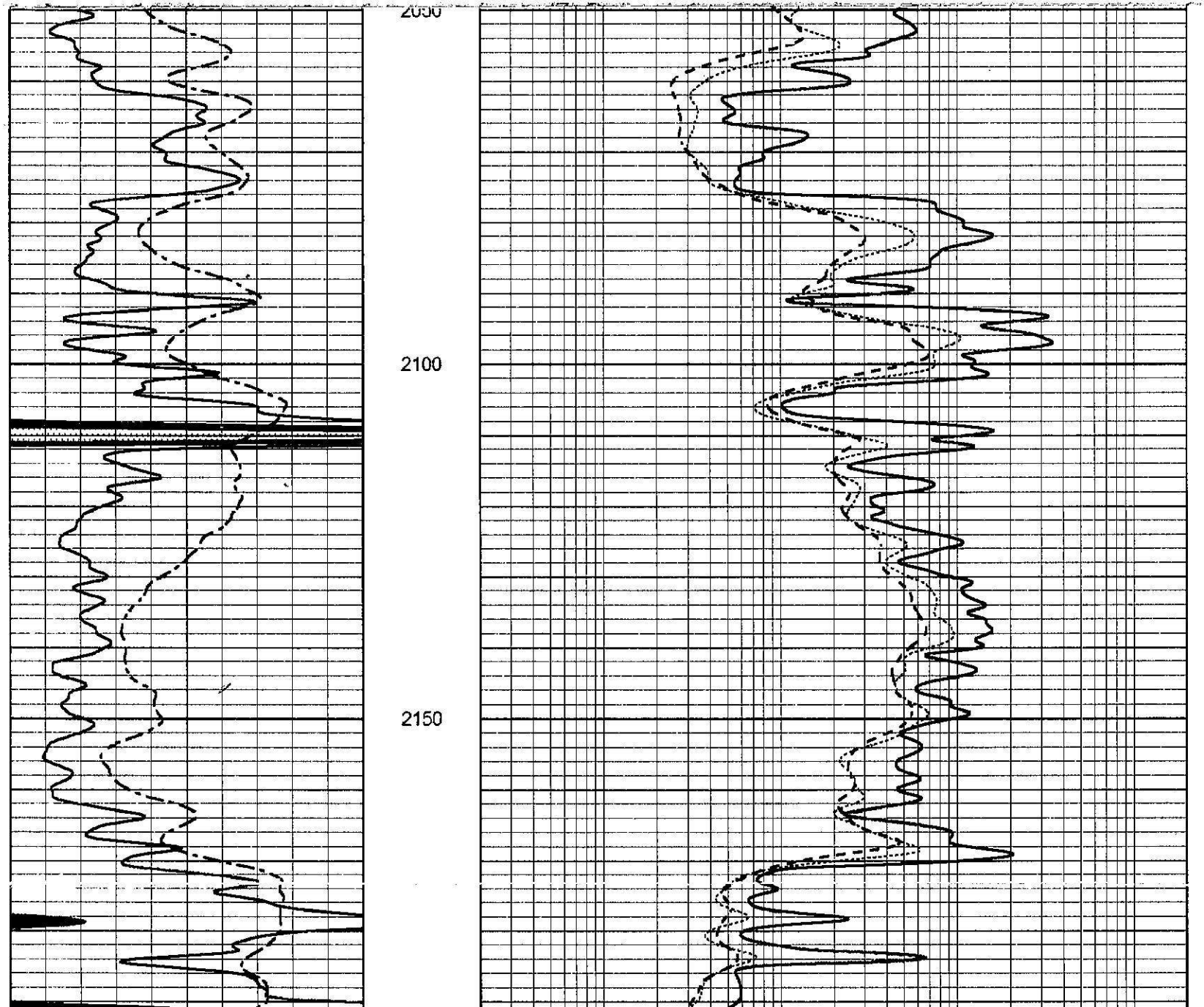

1450
1500
1550

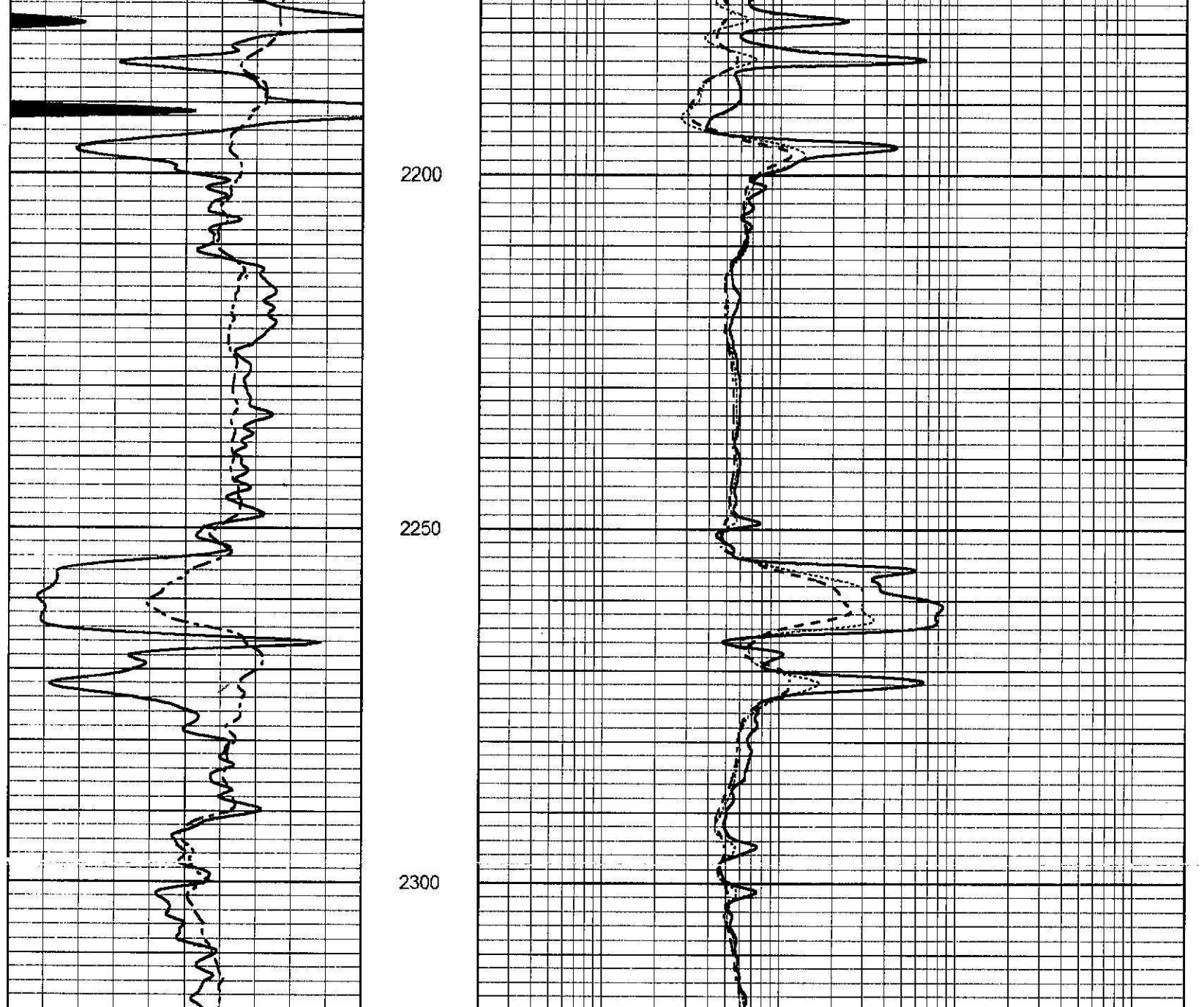

1600
1650

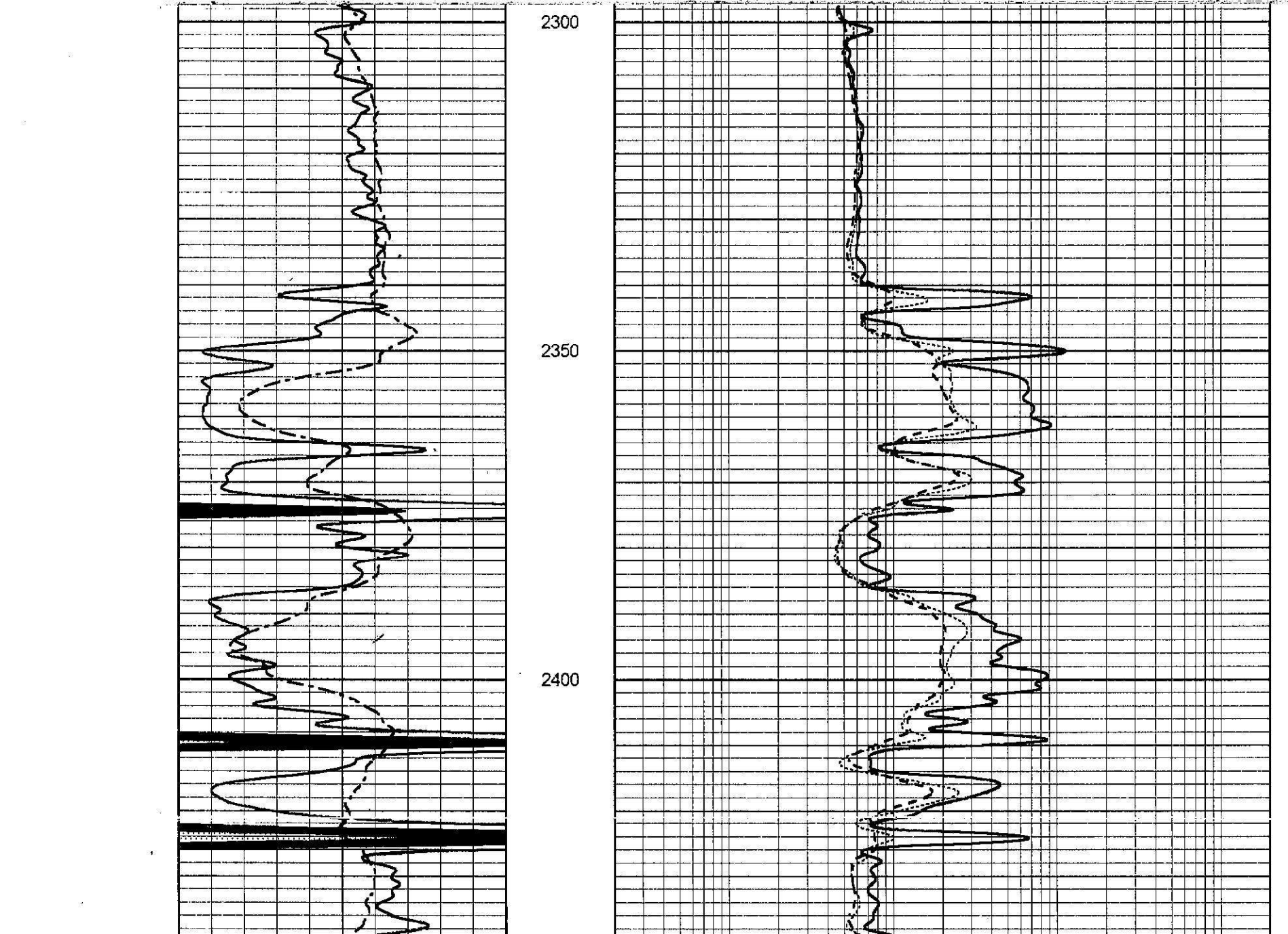

1700
1750
1800

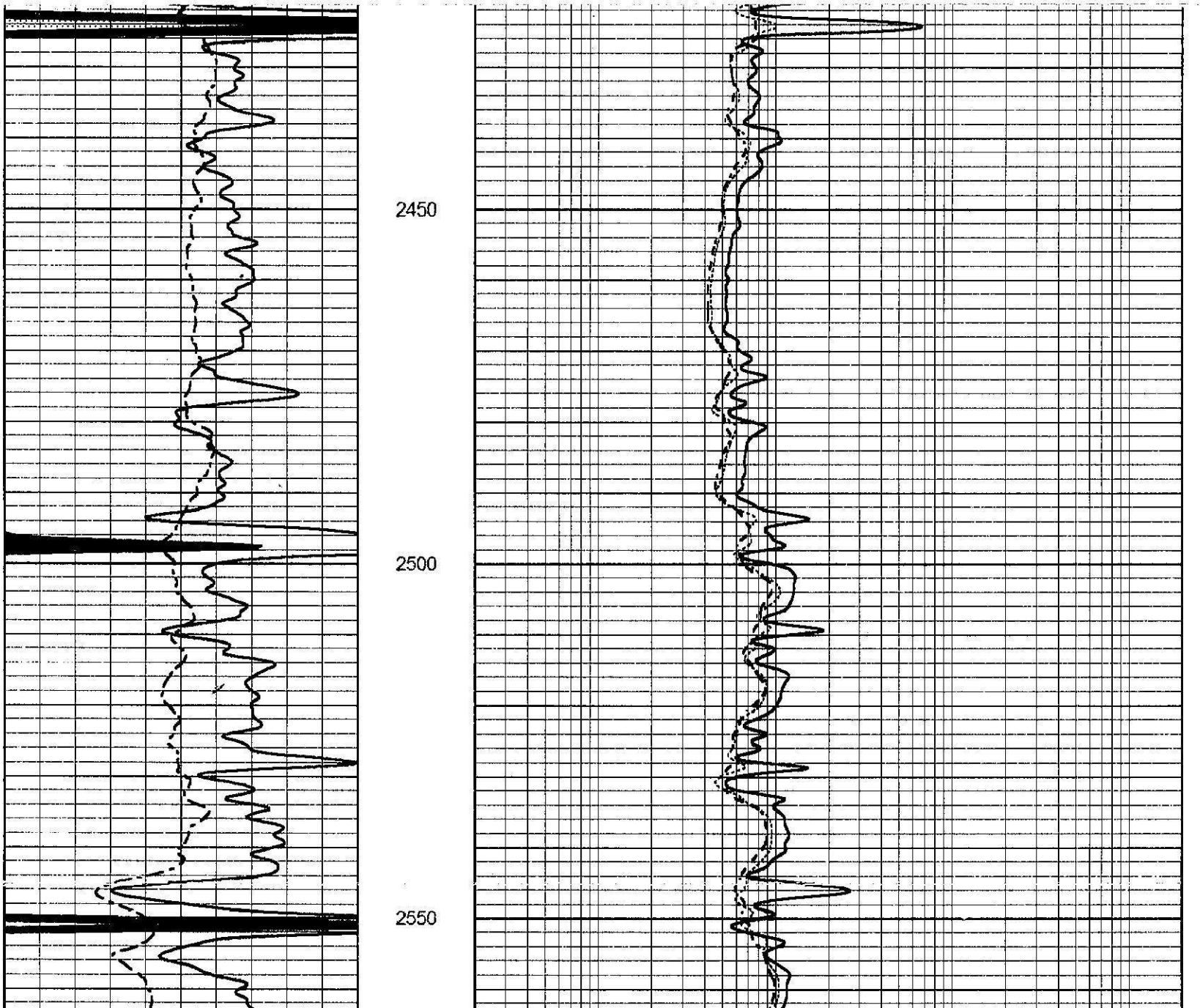

1850
1900

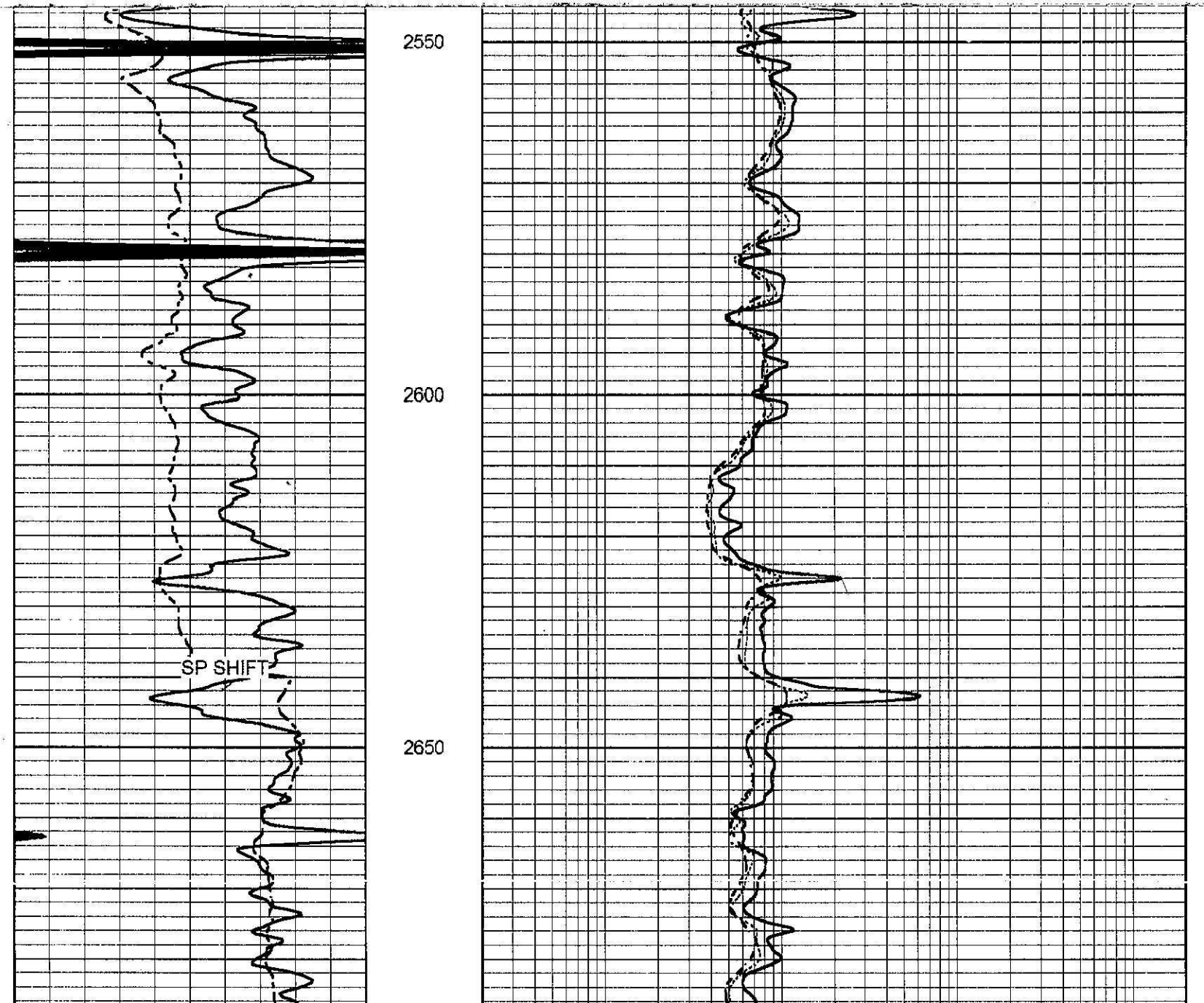

SP SHIFT
1950
2000
2050

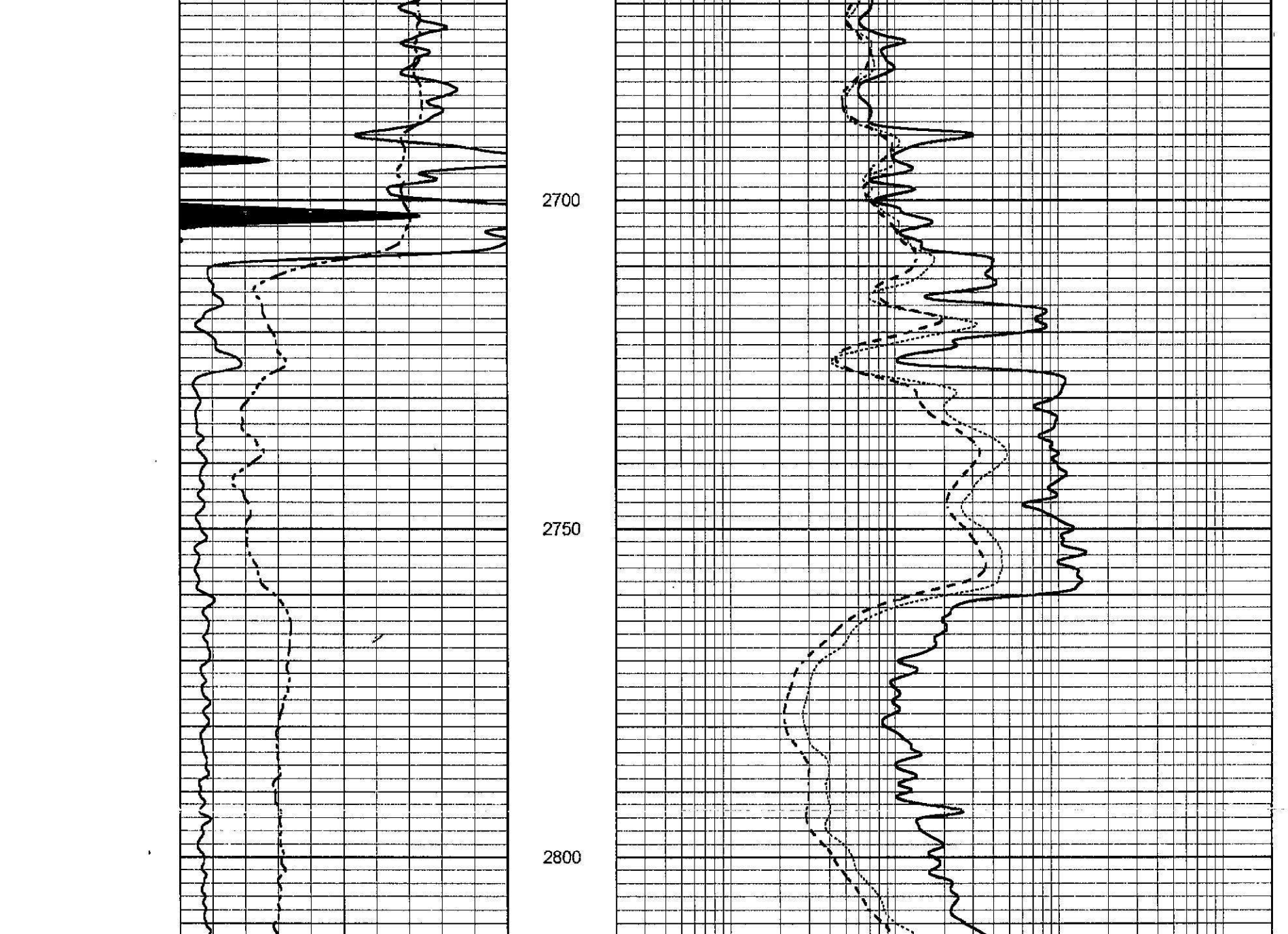

2050
2100
2150

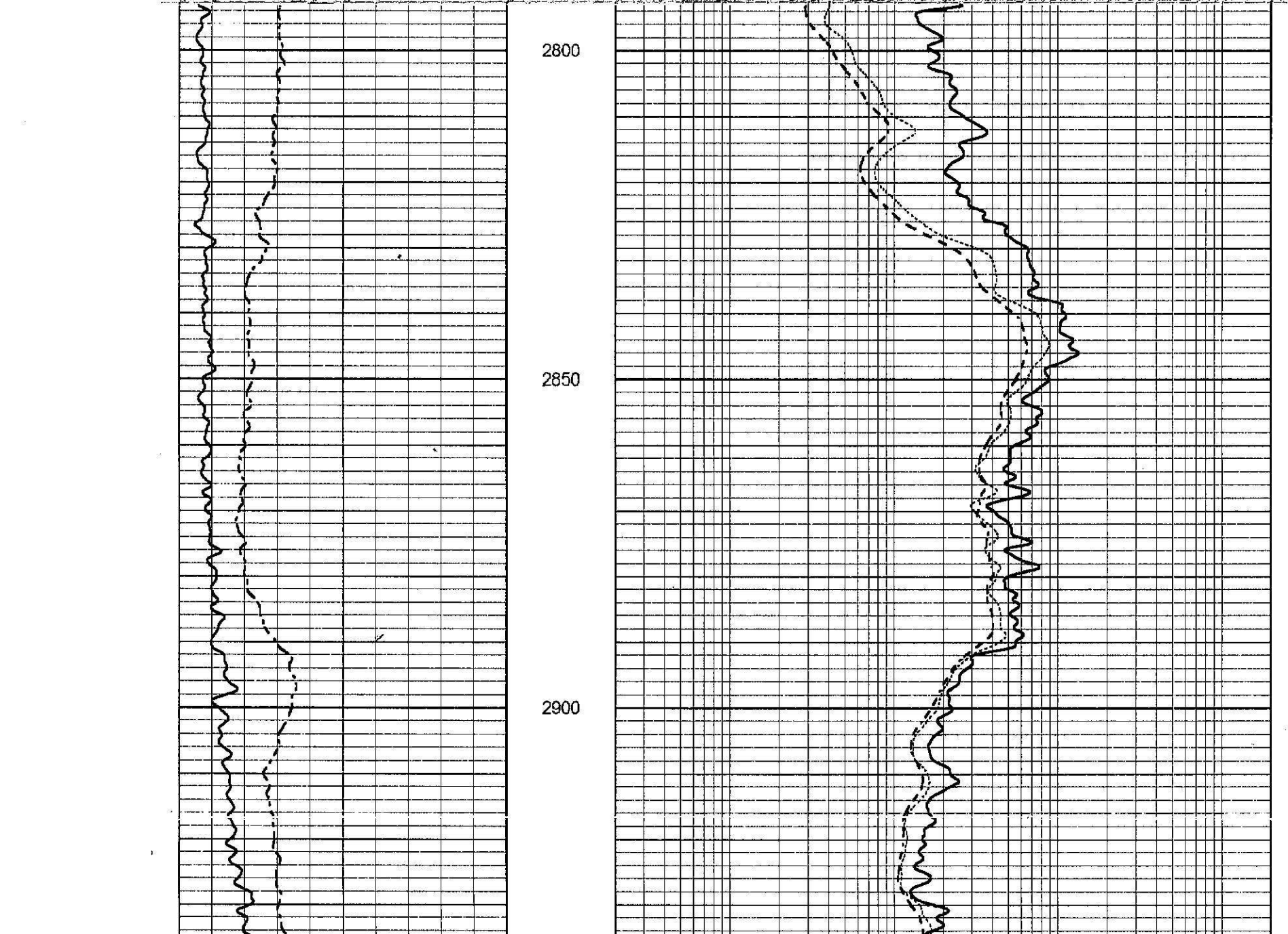

2200
2250
2300

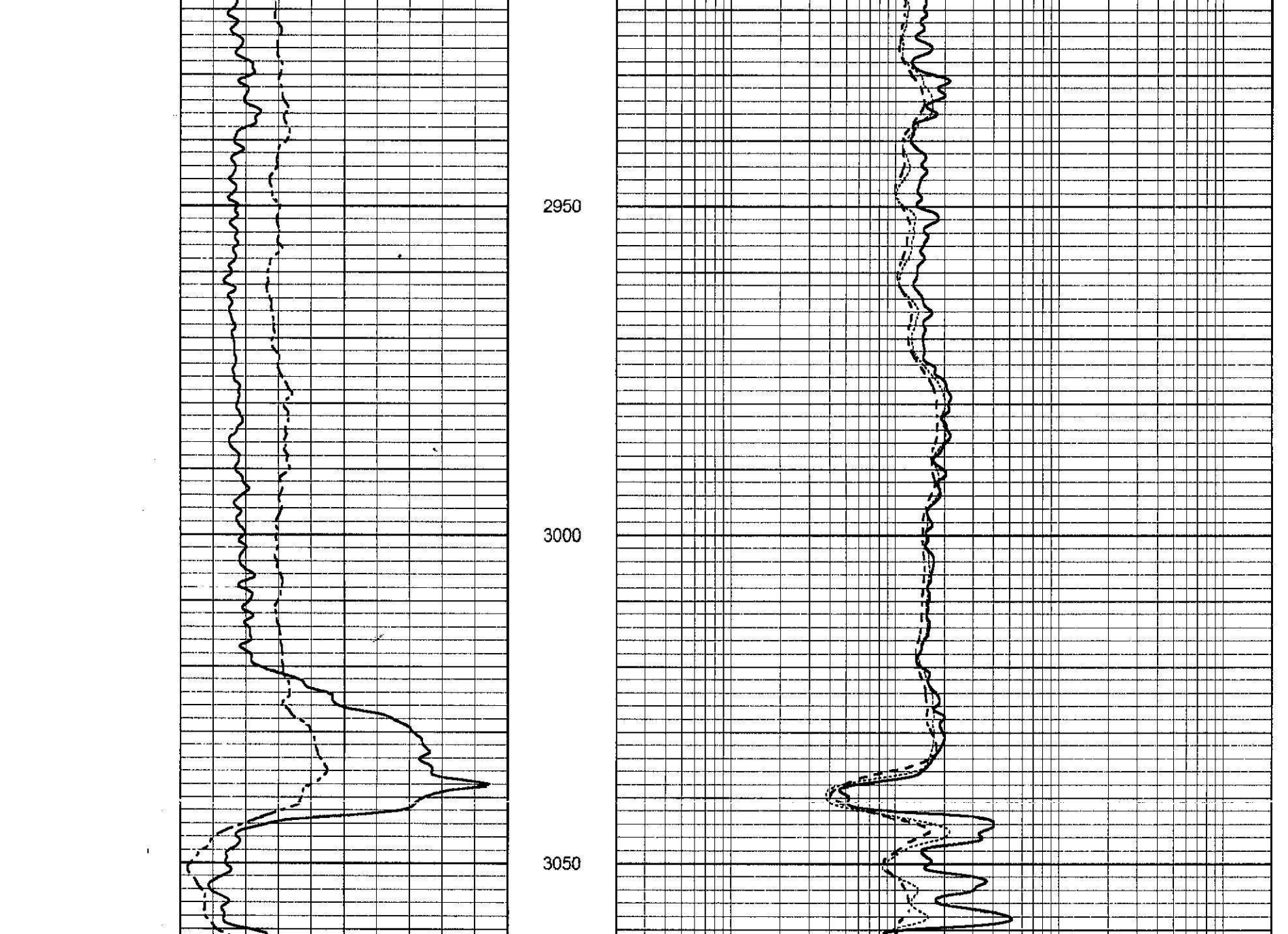

2300
2350
2400

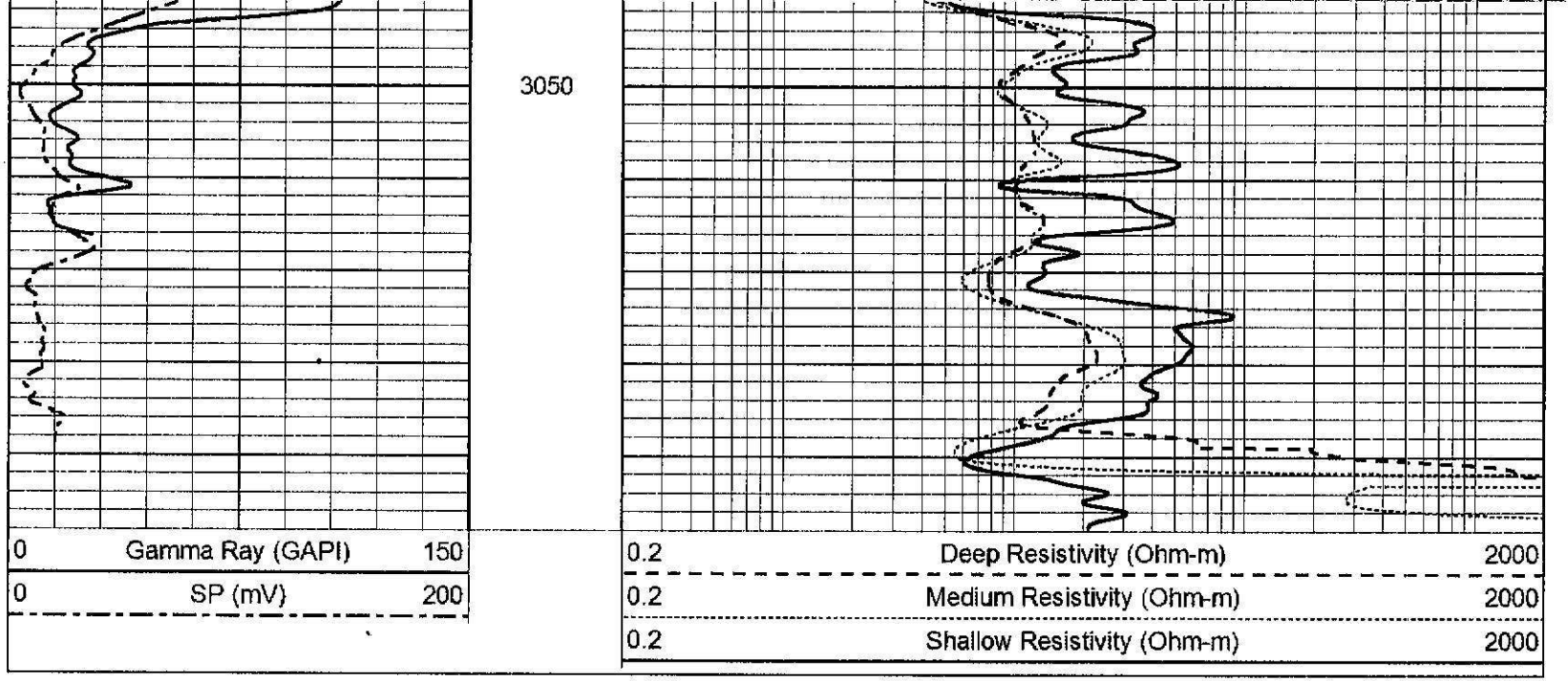

2450
2500
2550


2550
2600
SP SHIFT
2650

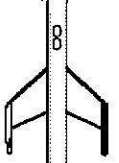

2700
2750
2800


2800
2850
2900


2950
3000
3050




| Sensor | Offset (ft) | Schematic | Description | Length (ft) | O.D. (in) | Weight (lb) |
|---|---|---|---|---|---|---|
| GRTemp | 29.86 | | | | | |
| GR | 29.45 | | GR-PTS_OH (FW1306-49) | 3.50 | 0.00 | |
| | | | MEL-GOI (TEL) | 6.25 | 3.50 | |



| | | | | | |
|---|---|---|---|---|---|
| | | MEL-GOI (TEL) | 6.25 | 3.50 | |
| MCAL | 22.86 | | | | |
| MI | 22.86 | | | | |
| MN | 22.70 | | | | |
| CILD | 10.92 | DIL-GEAR (159)<br>Dual Induction Electrical Log | 21.36 | 4.00 | 345.00 |
| SP | 10.42 | | | | |
| CILM | 7.00 | | | | |

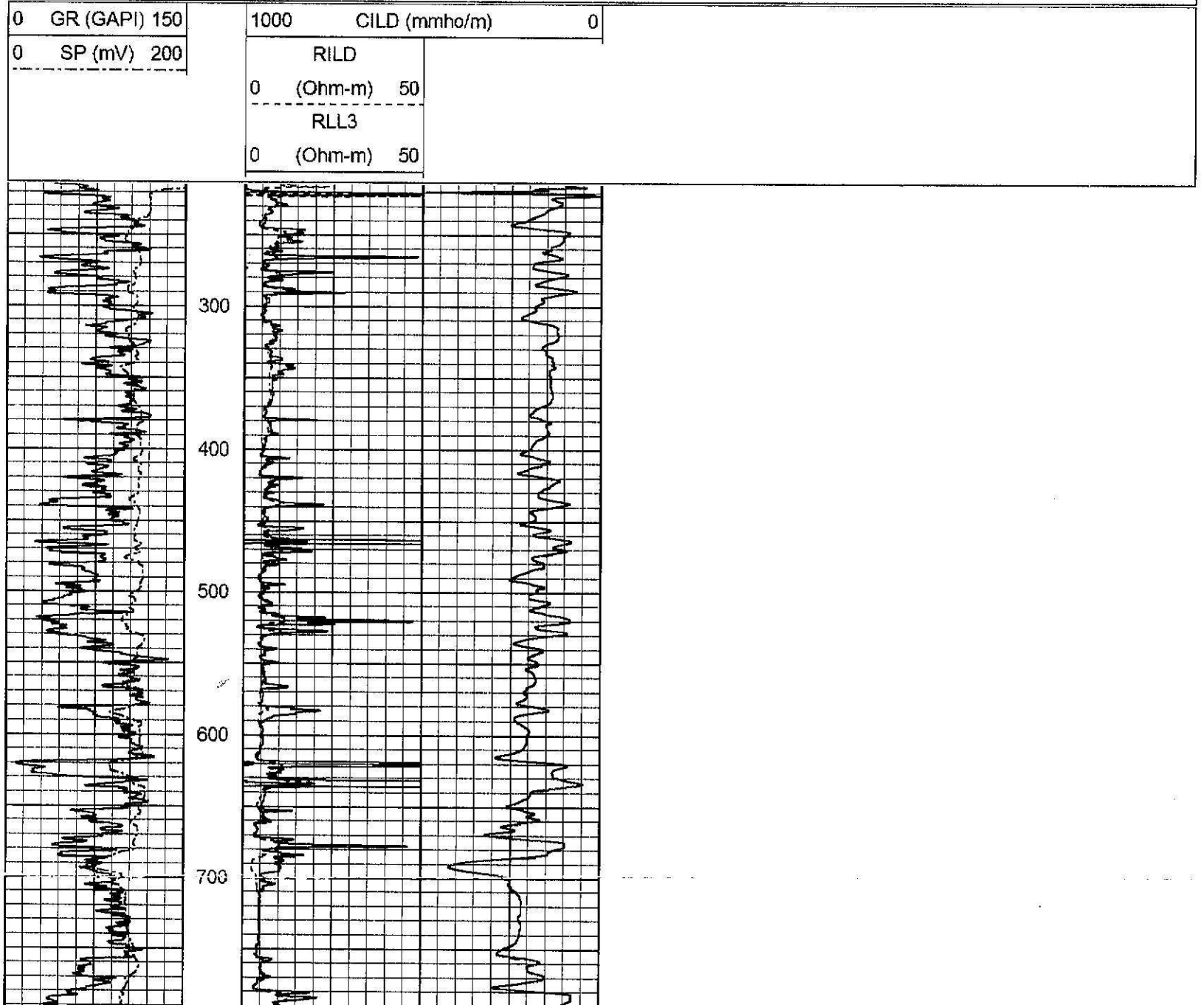
| | | | |
|---|---|---|---|
| CILM | 7.00 |  | |
| RLL3 | 1.67 | | |

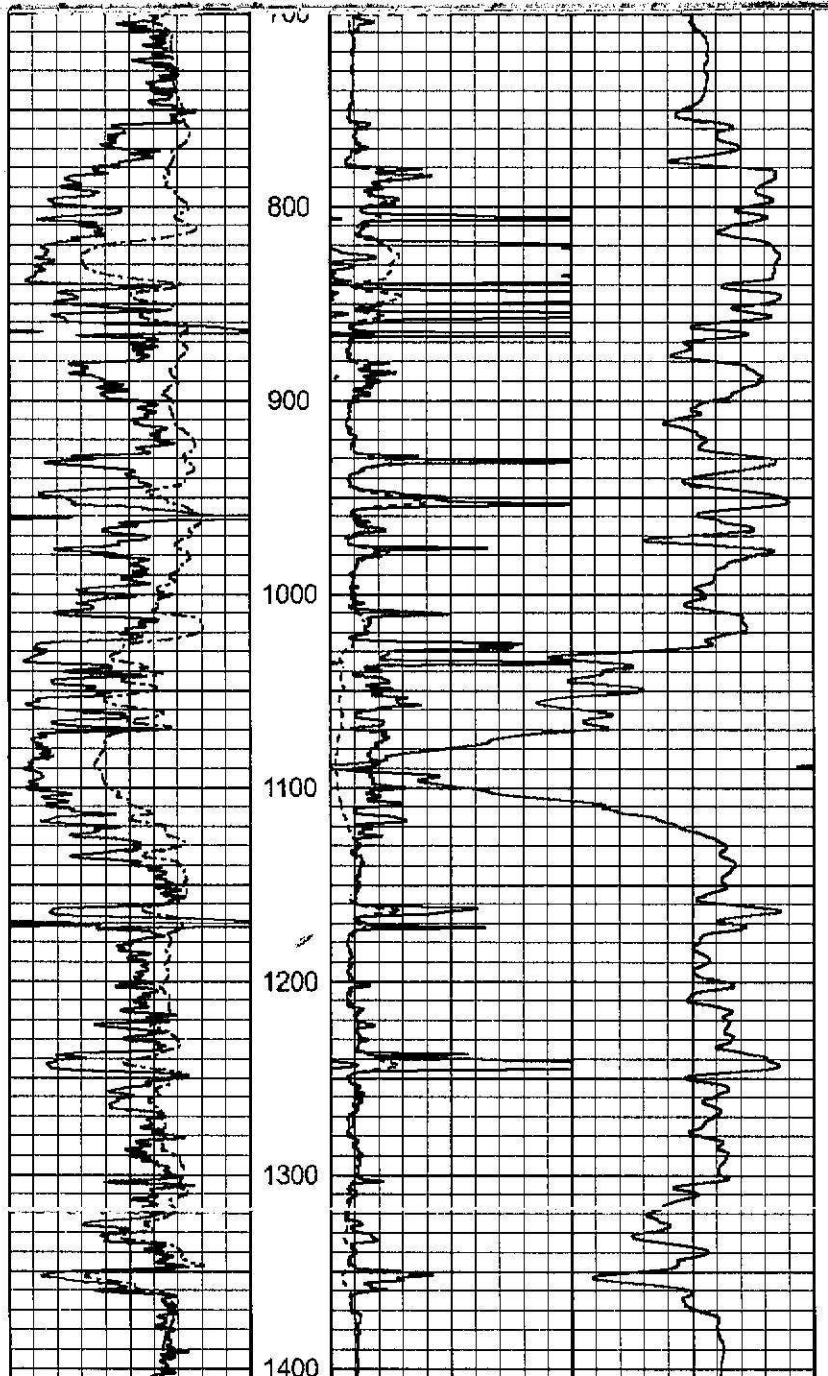
| | |
|---|---|
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| Total length: | 31.11 ft |
| Total weight: | 345.00 lb |
| O.D.: | 4.00 in |

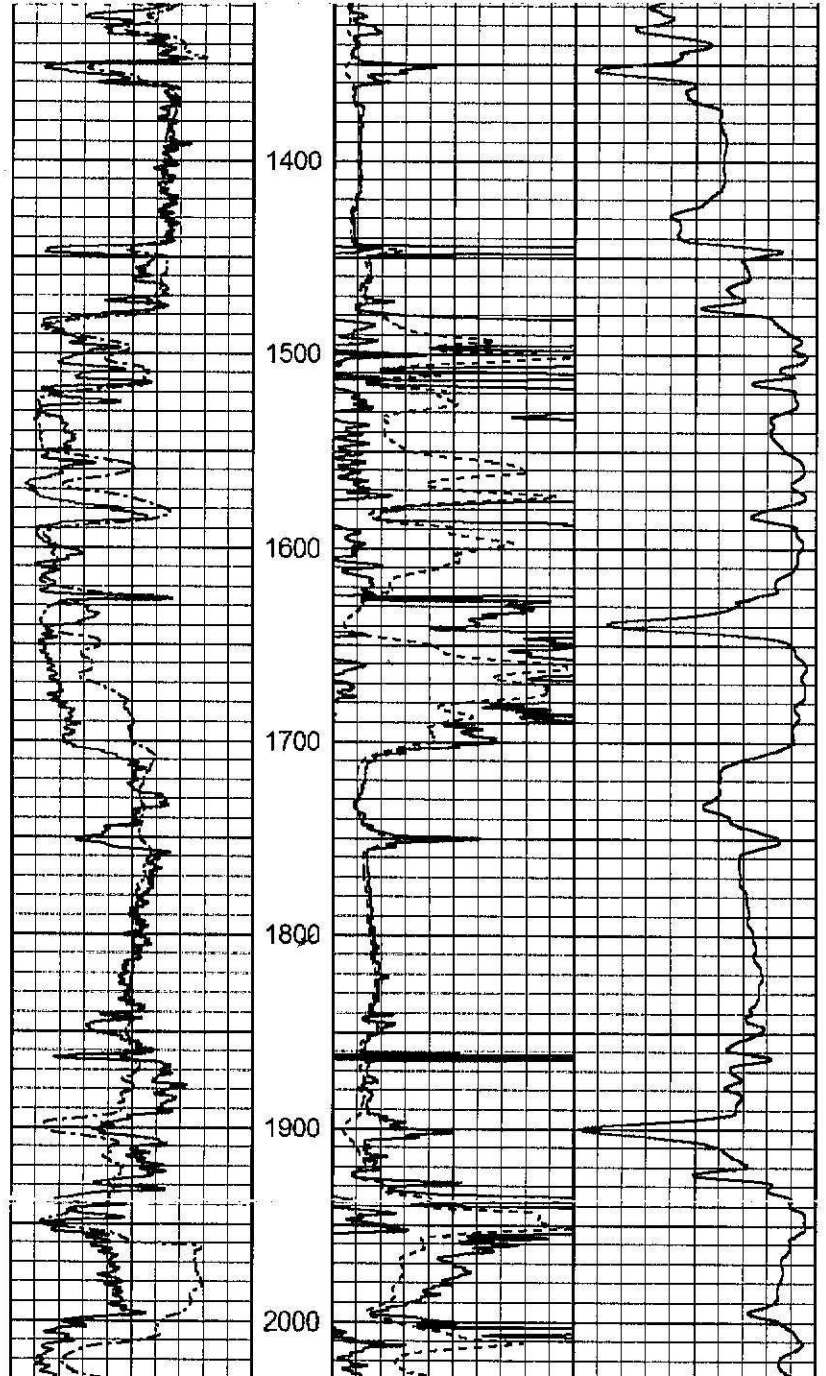
# 1" DIL SECTION

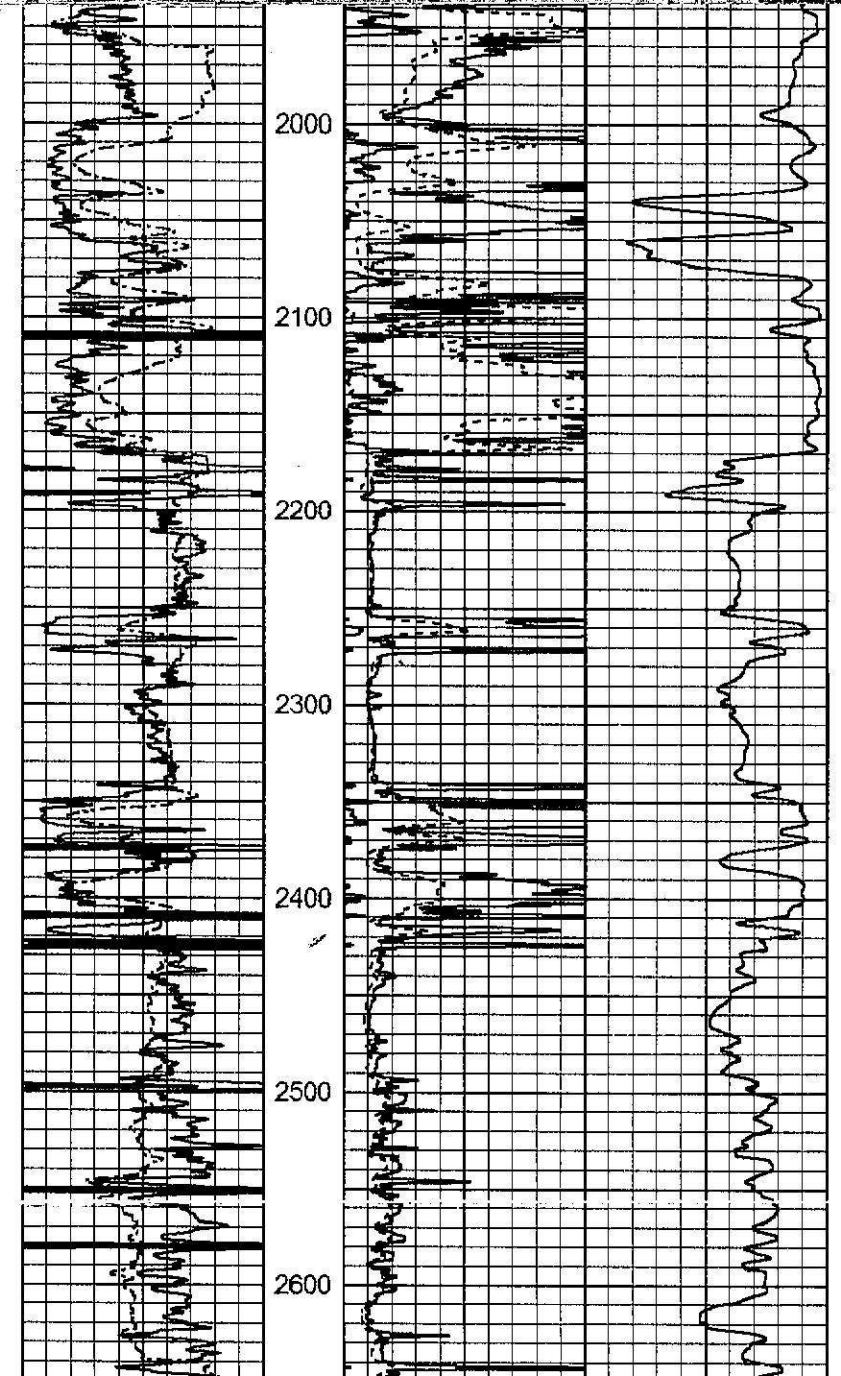
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| Presentation Format | dil1 |
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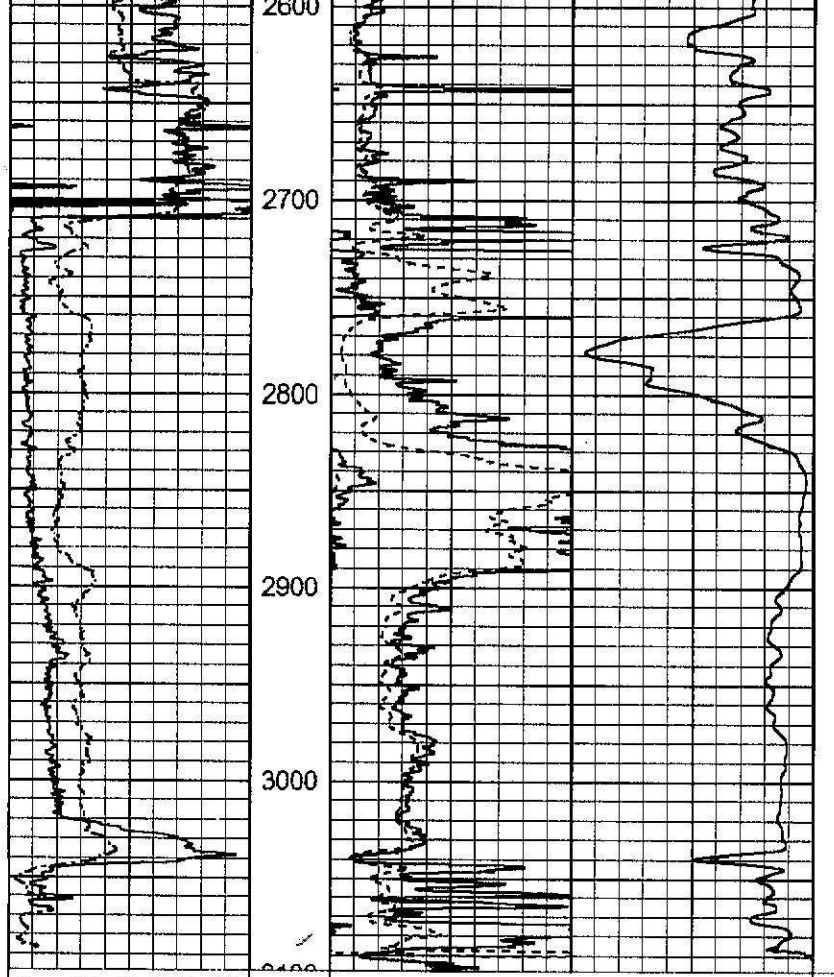
| | | |
|---|---|---|
| 0 GR (GAPI) 150 | 1000 CILD (mmho/m) 0 | |
| 0 SP (mV) 200 | RILD | |
| | 0 (Ohm-m) 50 | |


0 GR (GAPI) 150
0 SP (mV) 200
1000 CILD (mmho/m) 0
RILD
0 (Ohm-m) 50
RLL3
0 (Ohm-m) 50
300
400
500
600
700


800
900
1000
1100
1200
1300
1400


1400
1500
1600
1700
1800
1900
2000


2000
2100
2200
2300
2400
2500
2600




OMEGA WIRELINE

# 1" DIL SECTION