# DUAL INDUCTION LOG

Company VINCENT OIL CORPORATION
Well FEIKERT FARMS #5-8
Field KINGSDOWN NORTHWEST
County FORD State KANSAS

Location: API # : 15-057-21030-0000

502' FNL & 496' FEL

SEC 8 TWP 29S RGE 22W

Other Services
CDL/CNL/PE
MEL/SON

Elevation

Permanent Datum GROUND LEVEL Elevation 2495
Log Measured From KELLY BUSHING 12' A.G.L
Drilling Measured From KELLY BUSHING

K.B. 2507
D.F. 2505
G.L. 2495

| | | | |
|---|---|---|---|
| Date | 11/11/19 | | |
| Run Number | ONE | | |
| Depth Driller | 5320 | | |
| Depth Logger | 5322 | | |
| Bottom Logged Interval | 5320 | | |
| Top Log Interval | 00 | | |
| Casing Driller | 8 5/8" @ 690' | | |
| Casing Logger | 690' | | |
| Bit Size | 7 7/8 | | |
| Type Fluid in Hole | CHEMICAL MUD | CHLORIDES 7400 PPM | |
| Density / Viscosity | 9.2/57 | | |
| pH / Fluid Loss | 11.0/8.4 | | |
| Source of Sample | FLOWLINE | | |
| Rm @ Meas. Temp | 1.5 @ 59F | | |
| Rmf @ Meas. Temp | 1.1 @ 59F | | |
| Rmc @ Meas. Temp | 1.8 @ 59F | | |
| Source of Rmf / Rmc | MEASUREMENT | | |
| Rm @ BHT | .69 @ 128F | | |
| Time Circulation Stopped | 2 HOURS | | |
| Time Logger on Bottom | //// | | |
| Maximum Recorded Temperature | 128F | | |
| Equipment Number | 3802 | | |
| Location | HAYS, KANSAS | | |
| Recorded By | JASON CAPPELLUCCI | | |
| Witnessed By | JIM HALL | | |

Company VINCENT OIL CORPORATION
Well FEIKERT FARMS #5-8
Field KINGSDOWN NORTHWEST
County FORD
State KANSAS

<<< Fold Here >>>



Comments

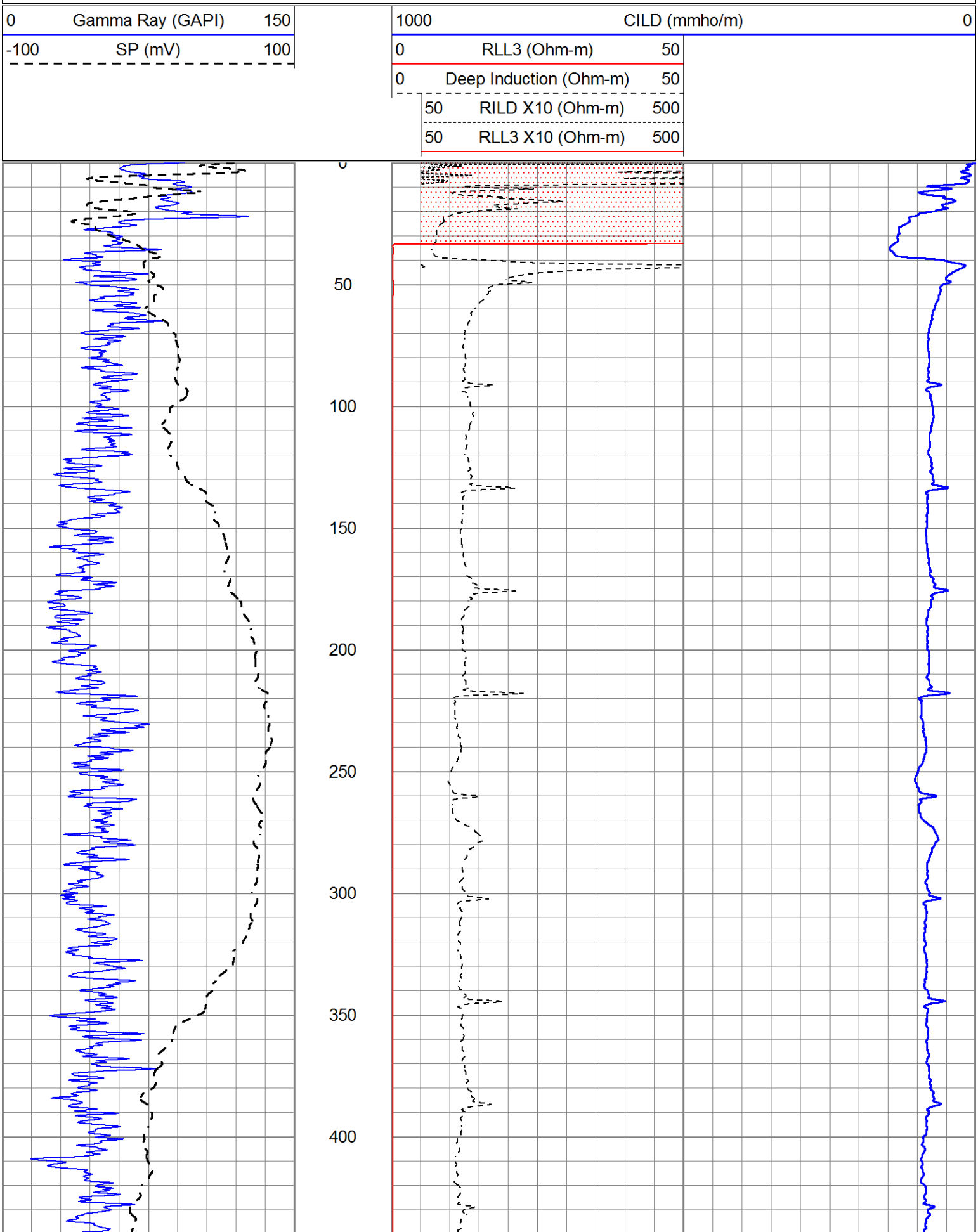
THANK YOU FOR USING ELI WIRELINE SERVICES, HAYS, KS. ( 785 ) 628-6395

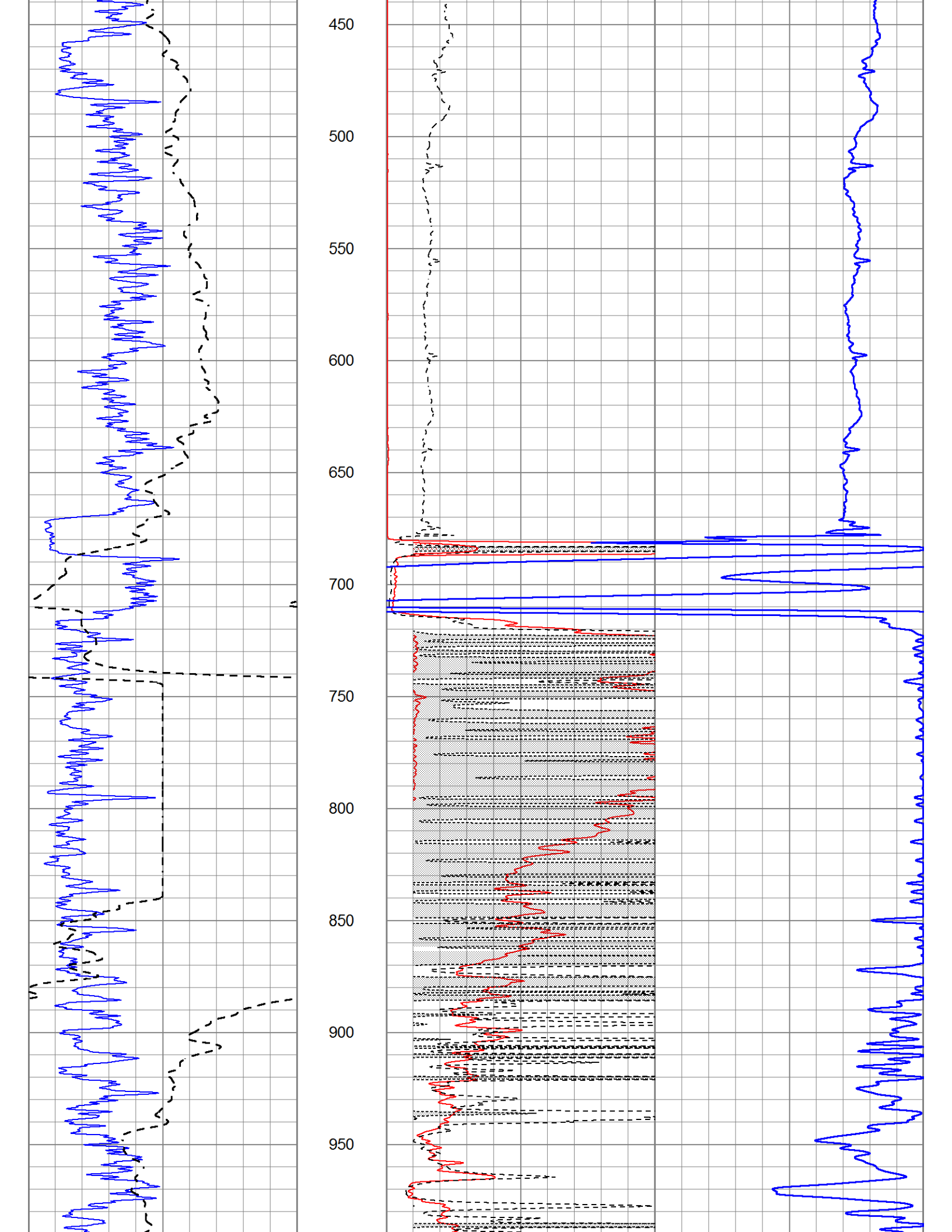
DIRECTIONS

KINGSDOWN, KS. - 1 NORTH TO WILDFIRE RD. - 1 EAST - SOUTH INTO

MAIN SECTION

| | |
|---|---|
| Database File | 4431pe.db |
| Dataset Pathname | pass4.2 |
| Presentation Format | _dil2 |
| Dataset Creation | Mon Nov 11 08:23:58 2019 |
| Charted by | Depth in Feet scaled 1:600 |

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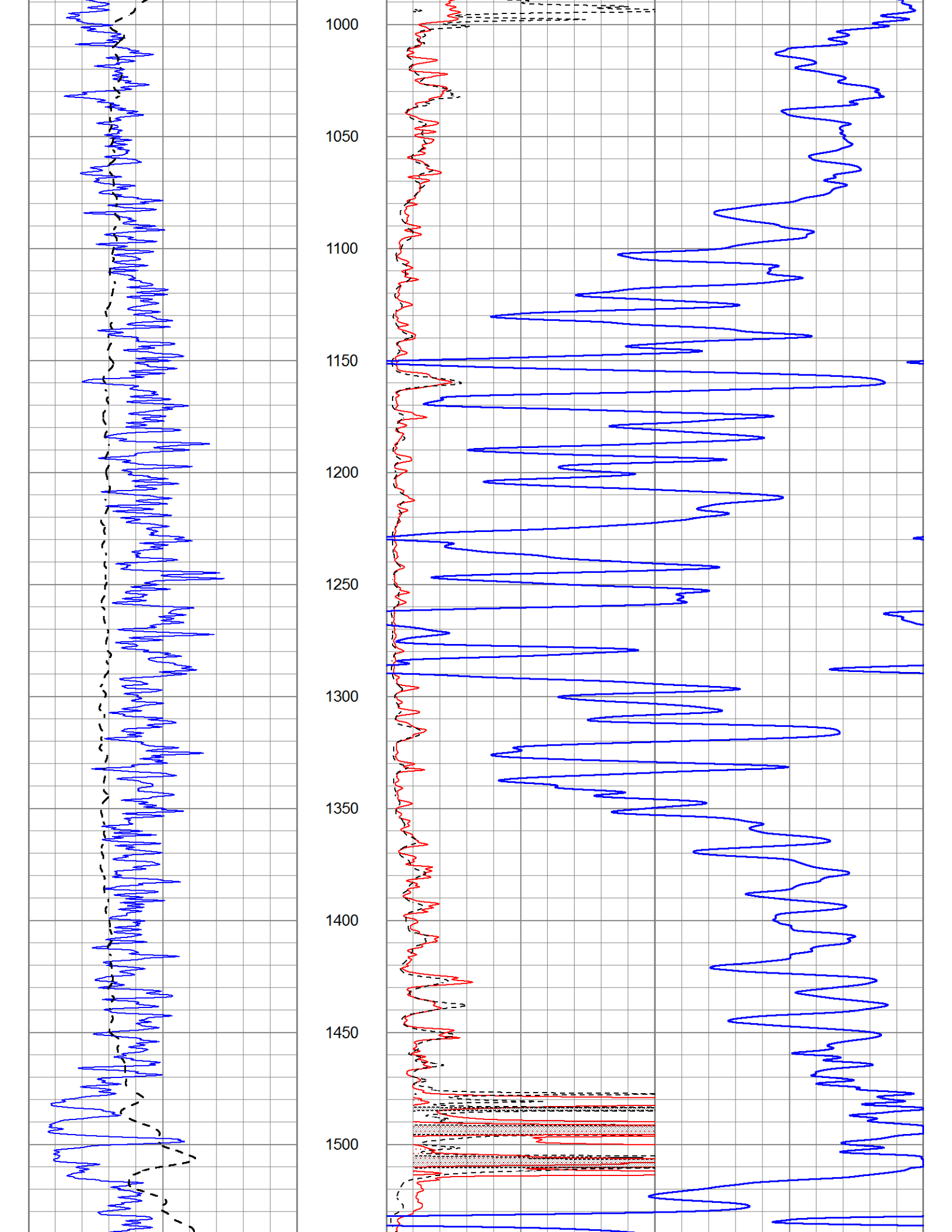
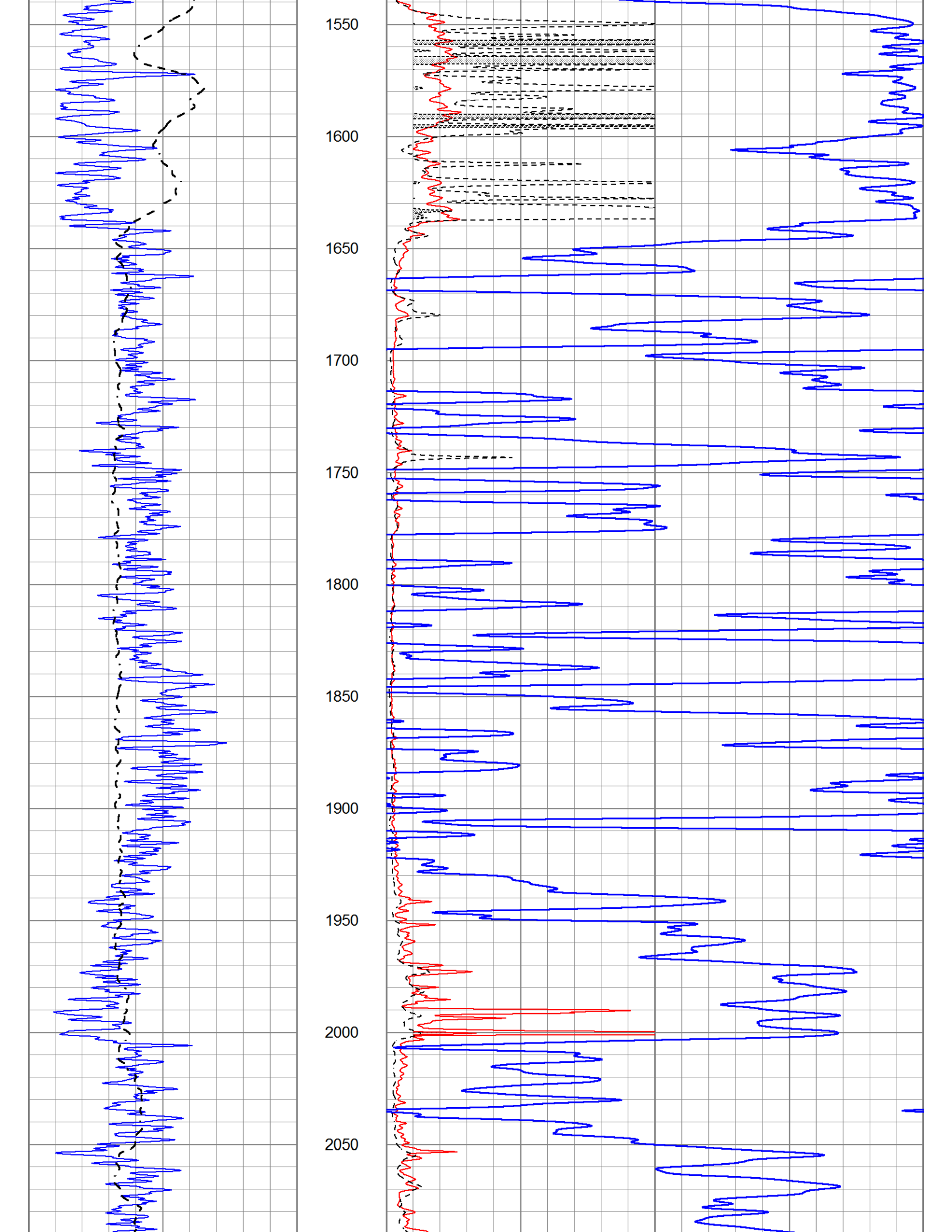
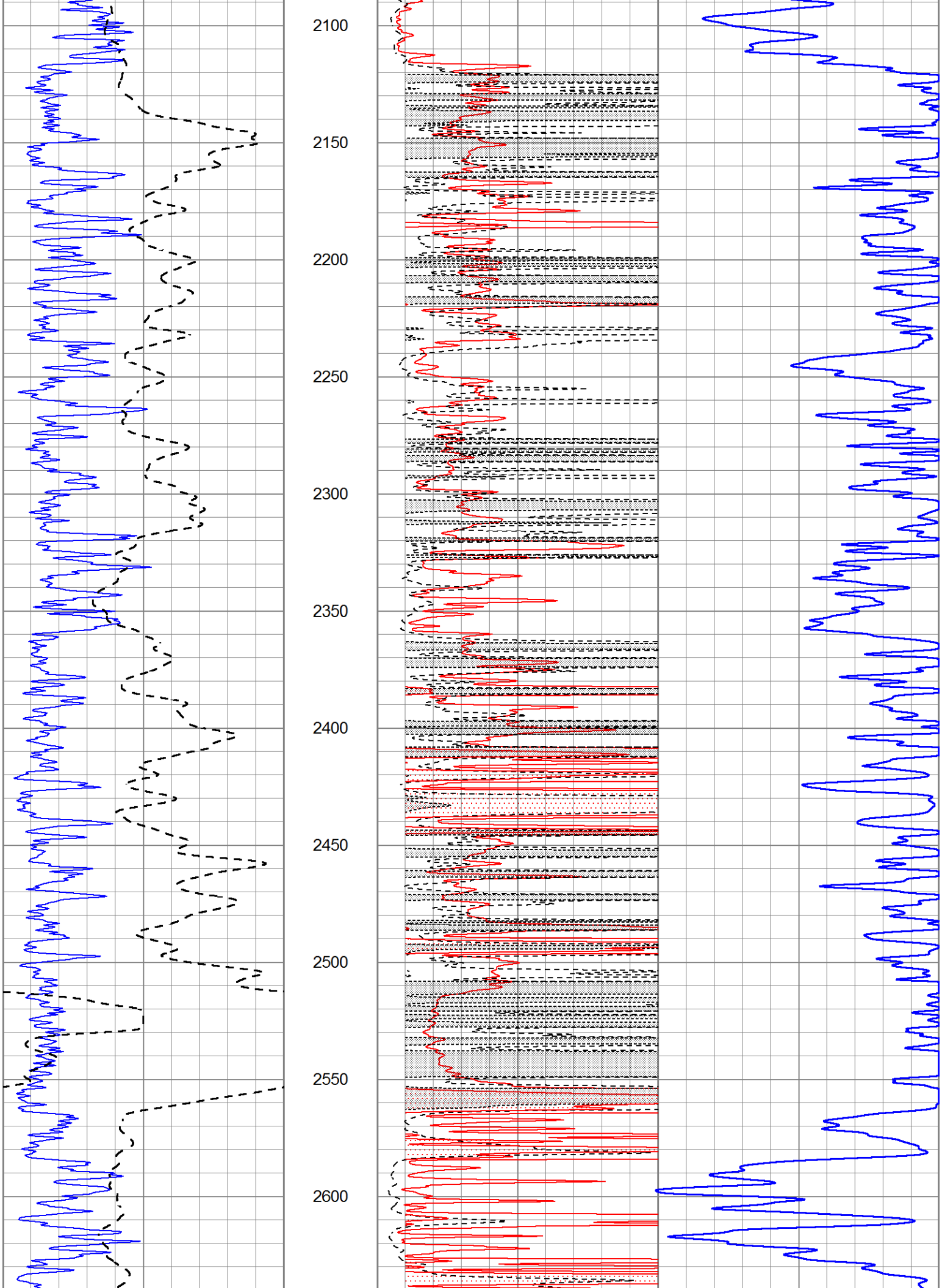
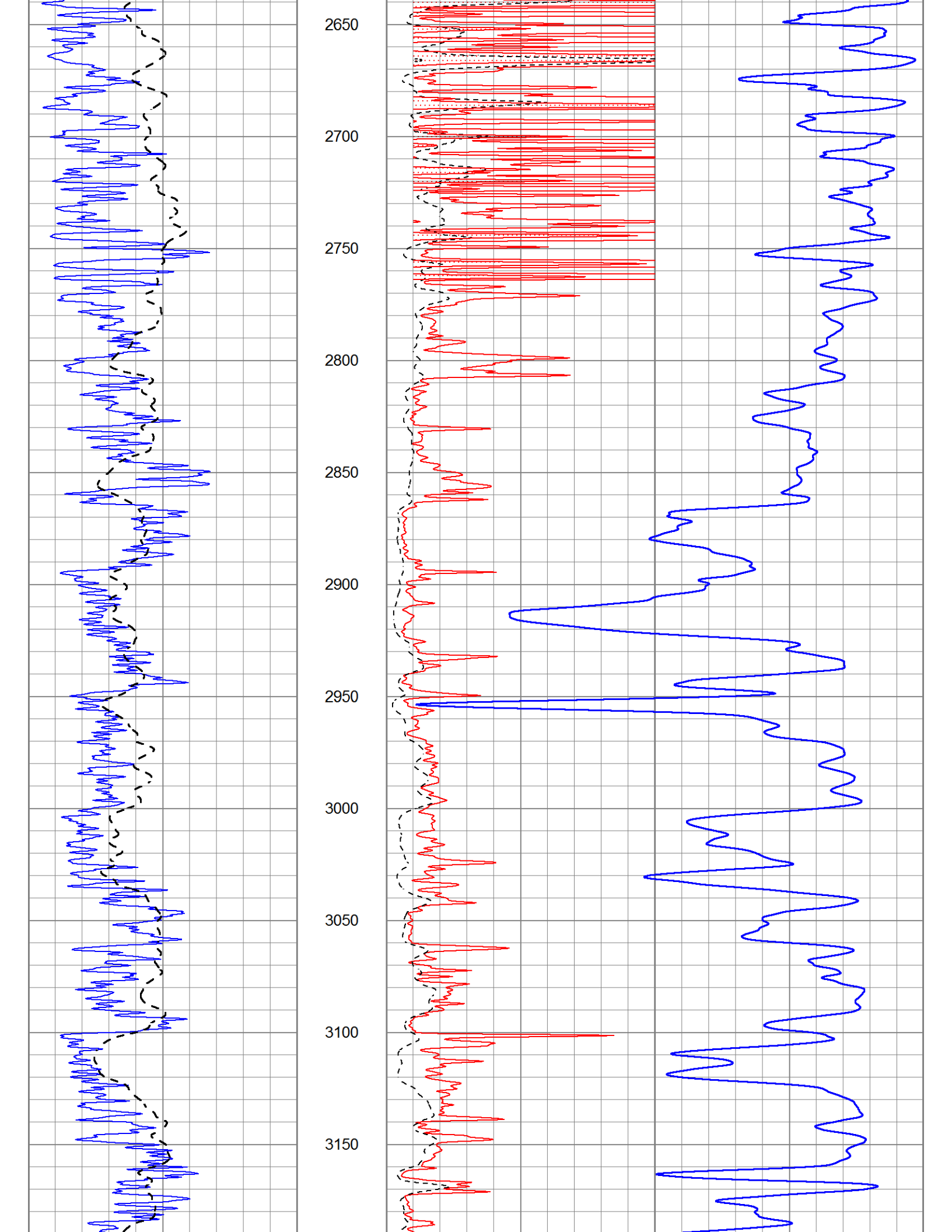
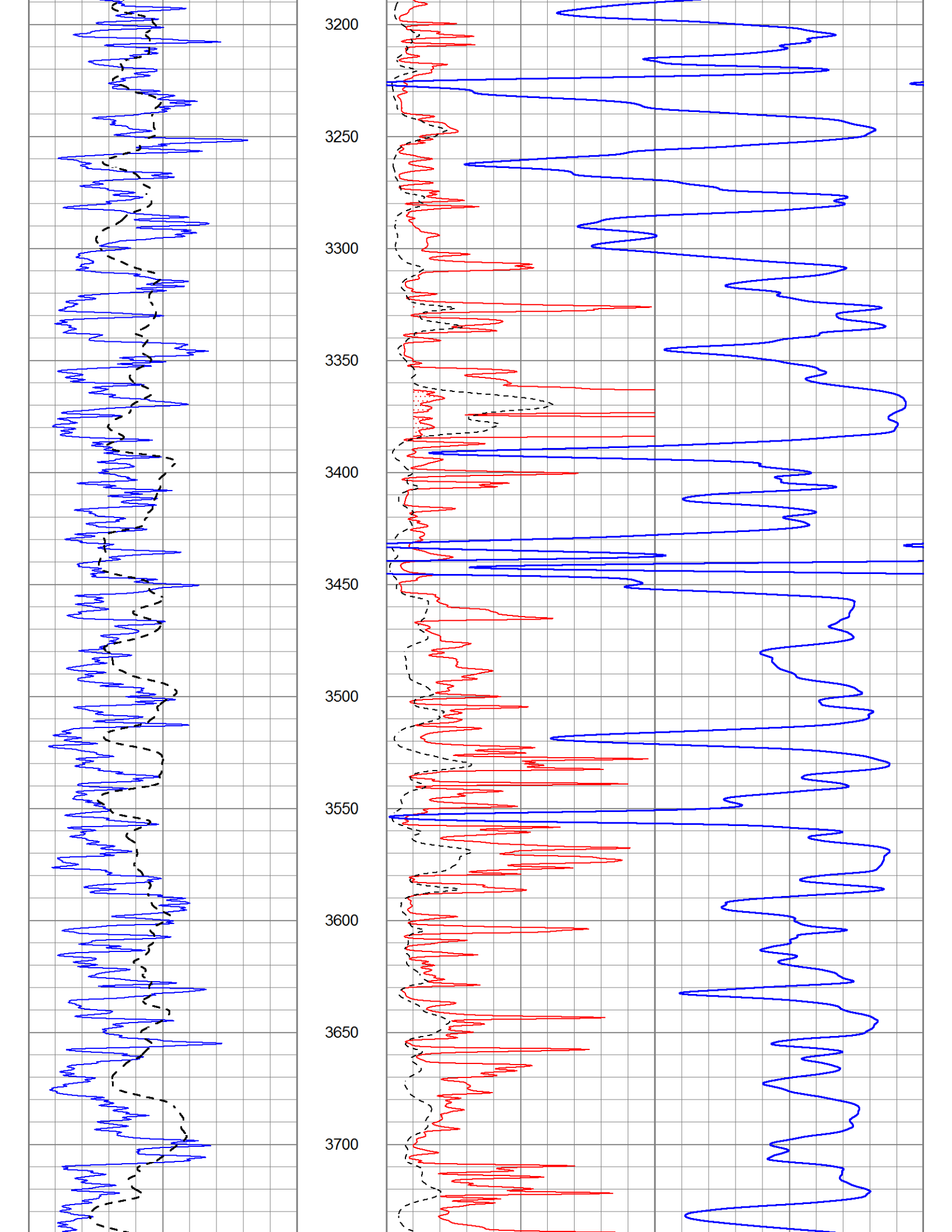
500
550
600
650
700
750
800
850
900
950


1000
1050
1100
1150
1200
1250
1300
1350
1400
1450
1500


1550
1600
1650
1700
1750
1800
1850
1900
1950
2000
2050


2100
2150
2200
2250
2300
2350
2400
2450
2500
2550
2600


2650
2700
2750
2800
2850
2900
2950
3000
3050
3100
3150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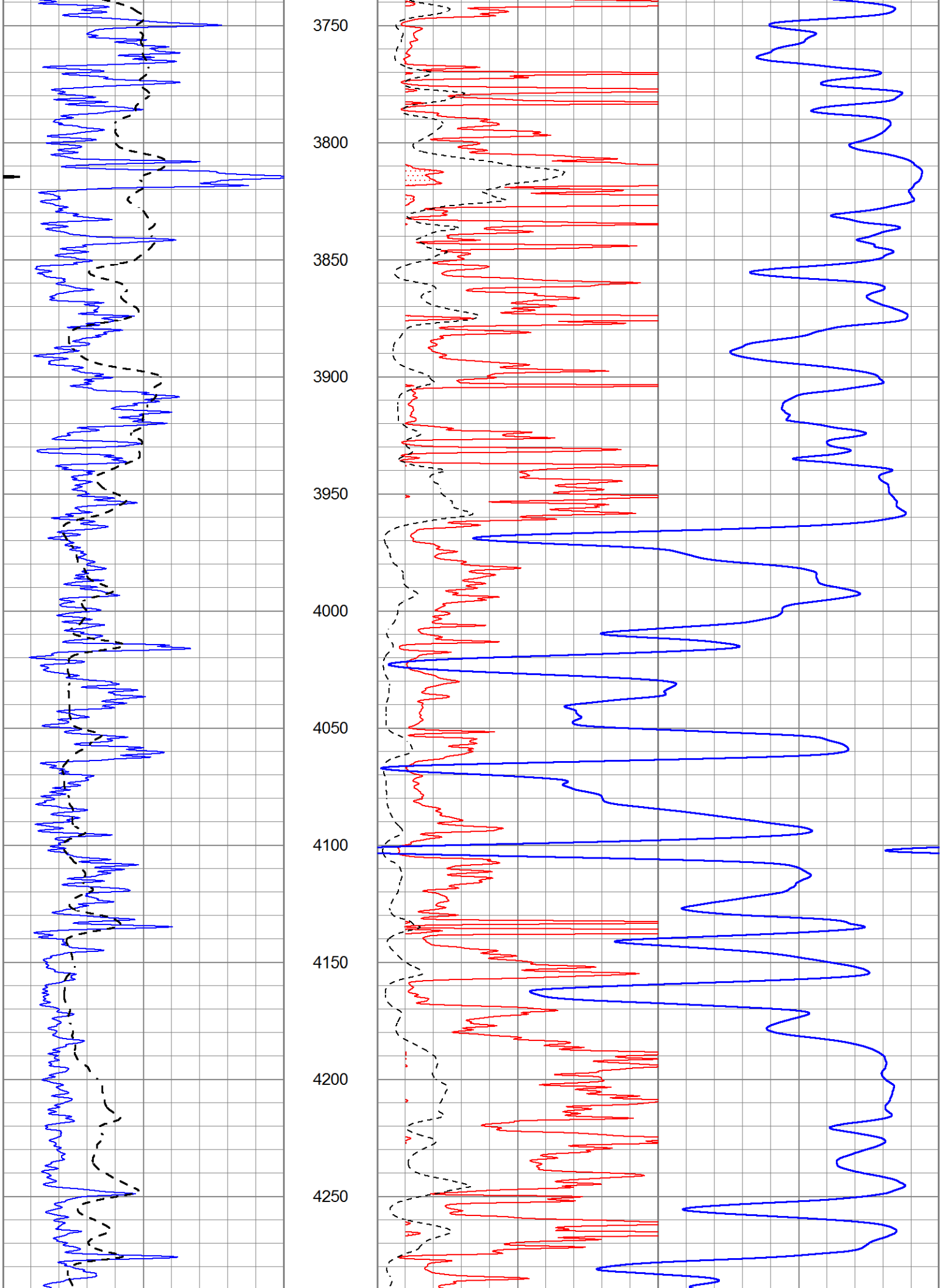
3250
3300
3350
3400
3450
3500
3550
3600
3650
3700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3800
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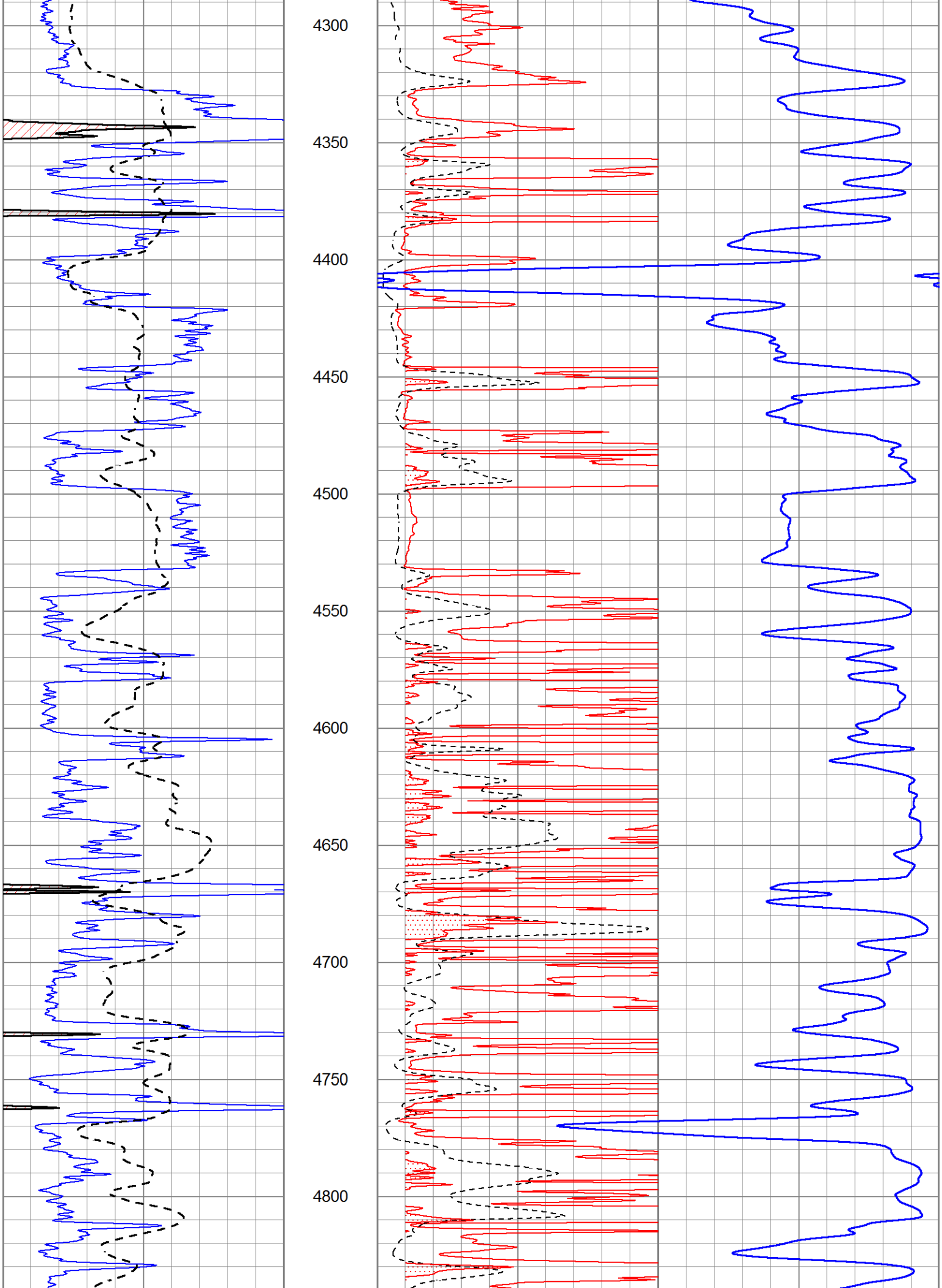
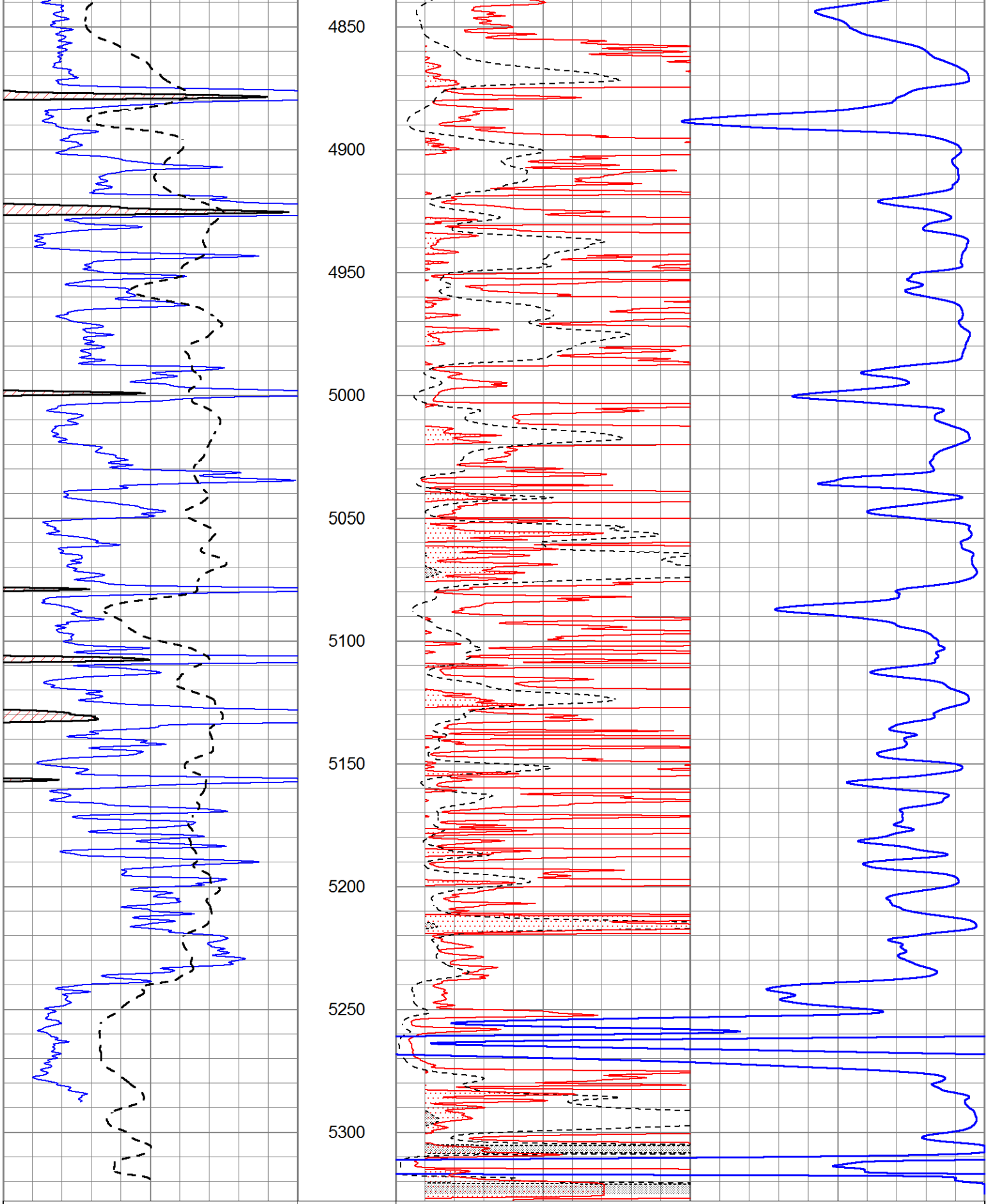
3900
3950
4000
4050
4100
4150
4200
4250


4300
4350
4400
4450
4500
4550
4600
4650
4700
4750
4800

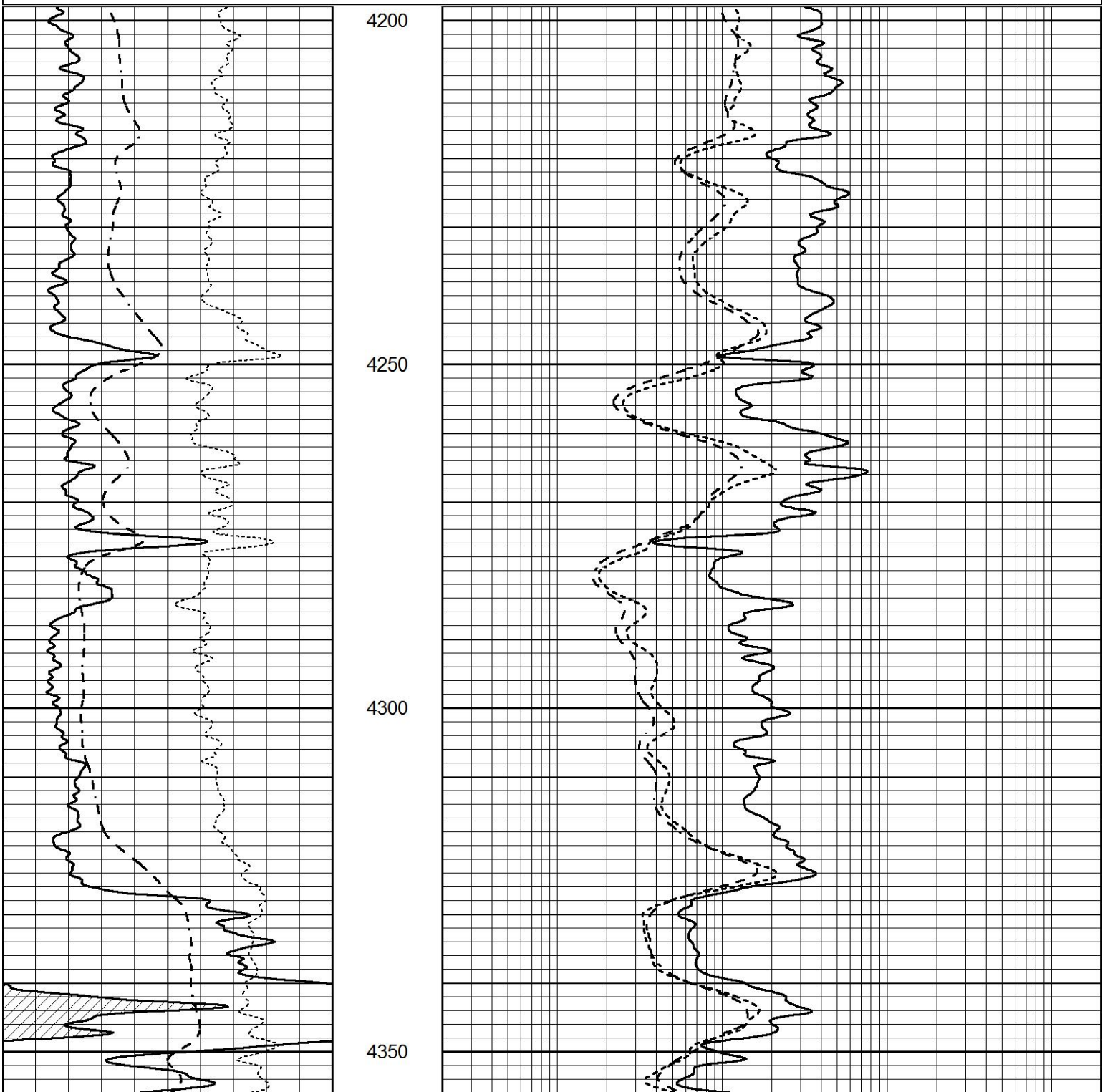

4850
4900
4950
5000
5050
5100
5150
5200
5250
5300
0 Gamma Ray (GAPI) 150
-100 SP (mV) 100
1000 CILD (mmho/m) 0
0 RLL3 (Ohm-m) 50
0 Deep Induction (Ohm-m) 50
50 RILD X10 (Ohm-m) 500
50 RLL3 X10 (Ohm-m) 500

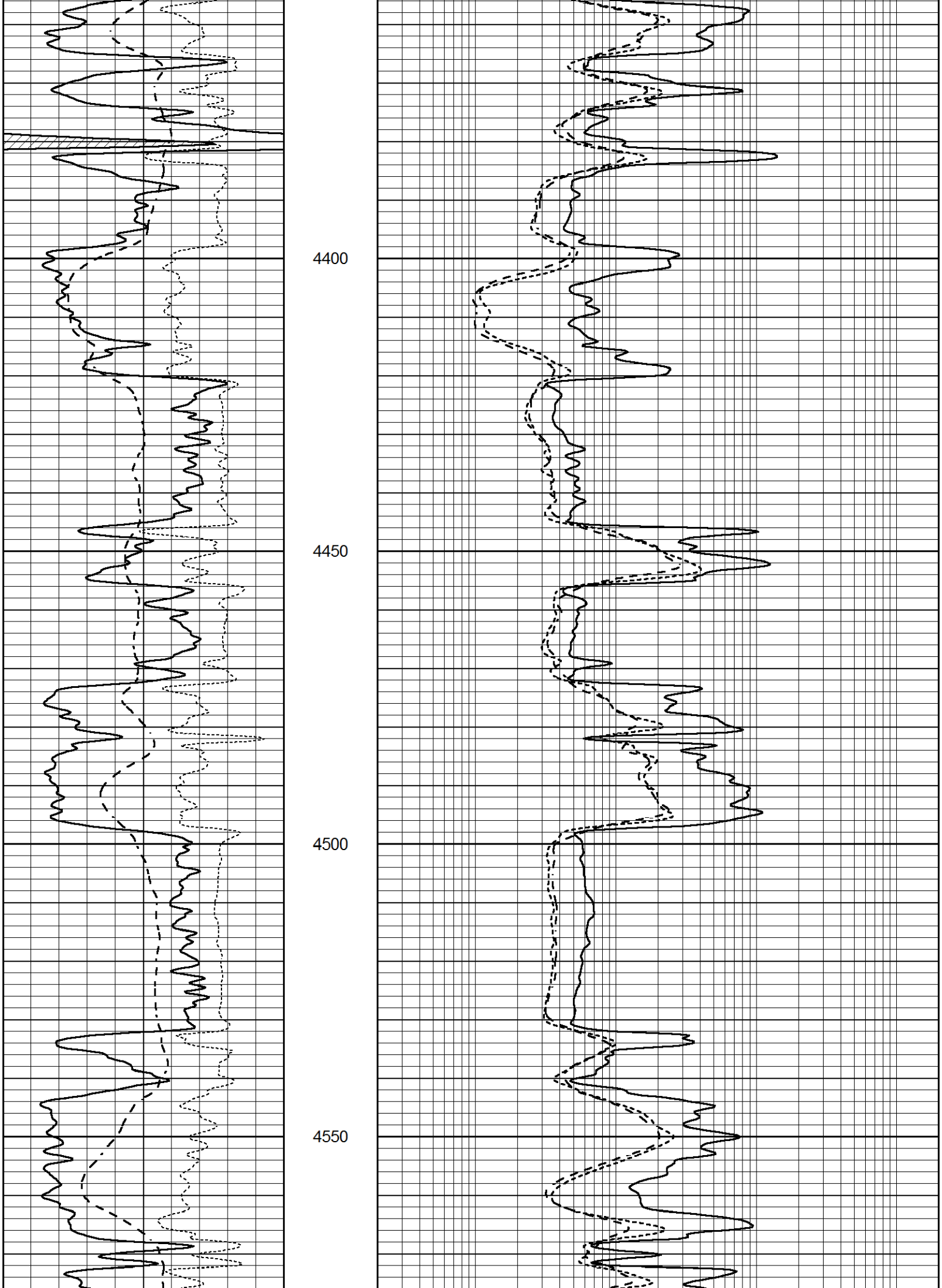
# MAIN SECTION

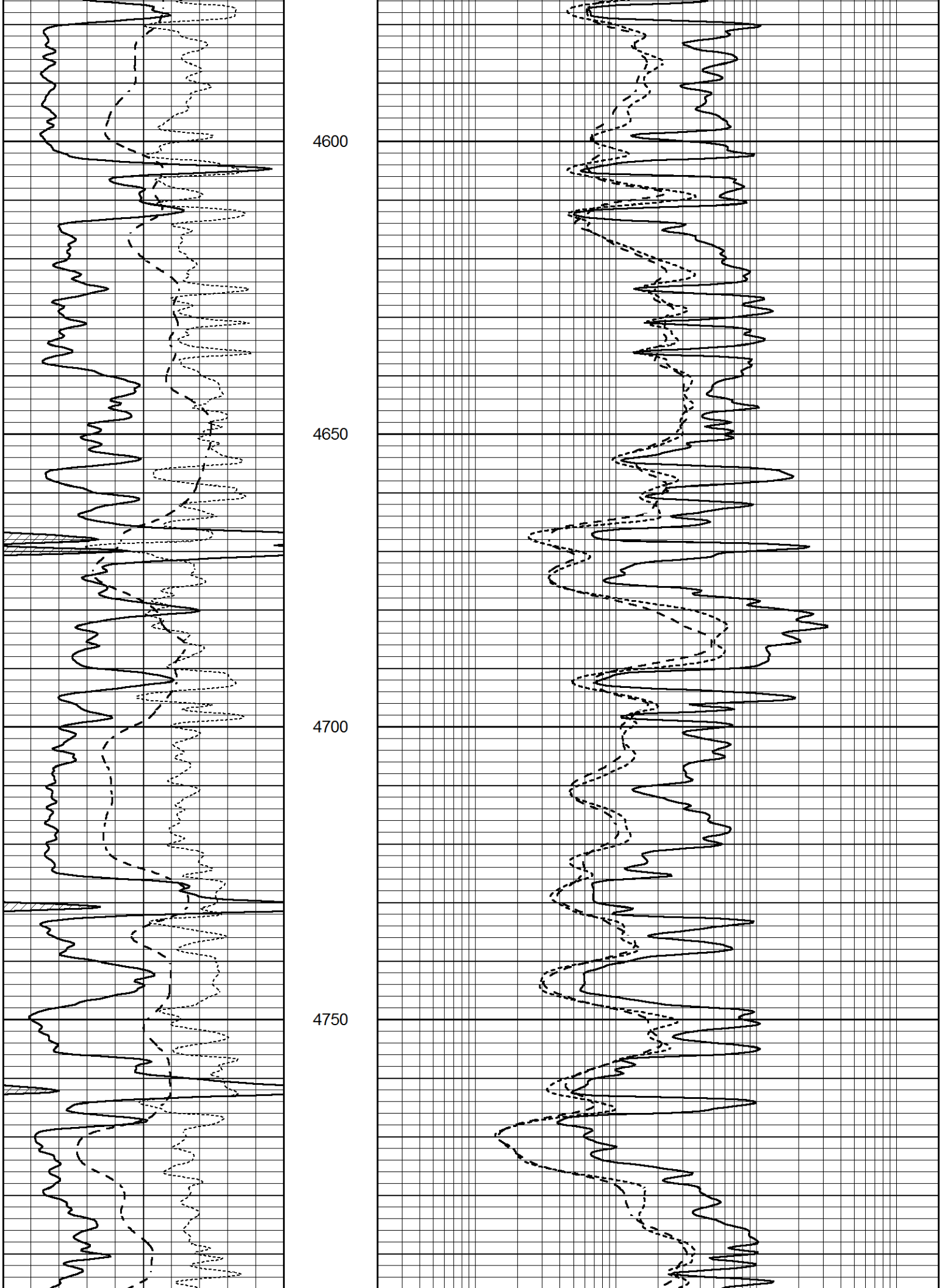
| | |
|---|---|
| Database File | 4431pe.db |
| Dataset Pathname | pass4.1 |
| Presentation Format | _dil |
| Dataset Creation | Mon Nov 11 07:21:48 2019 |
| Charted by | Depth in Feet scaled 1:240 |

| | | |
|---|---|---|
| 0 | GAMMA RAY (GAPI) | 150 |
| -100 | SP (mV) | 100 |
| -250 | Rxo/Rt | 50 |

| | | |
|---|---|---|
| 0.2 | SHALLOW GUARD (Ohm-m) | 2000 |
| 0.2 | MEDIUM INDUCTION (Ohm-m) | 2000 |
| 0.2 | DEEP INDUCTION (Ohm-m) | 2000 |




4400
4450
4500
4550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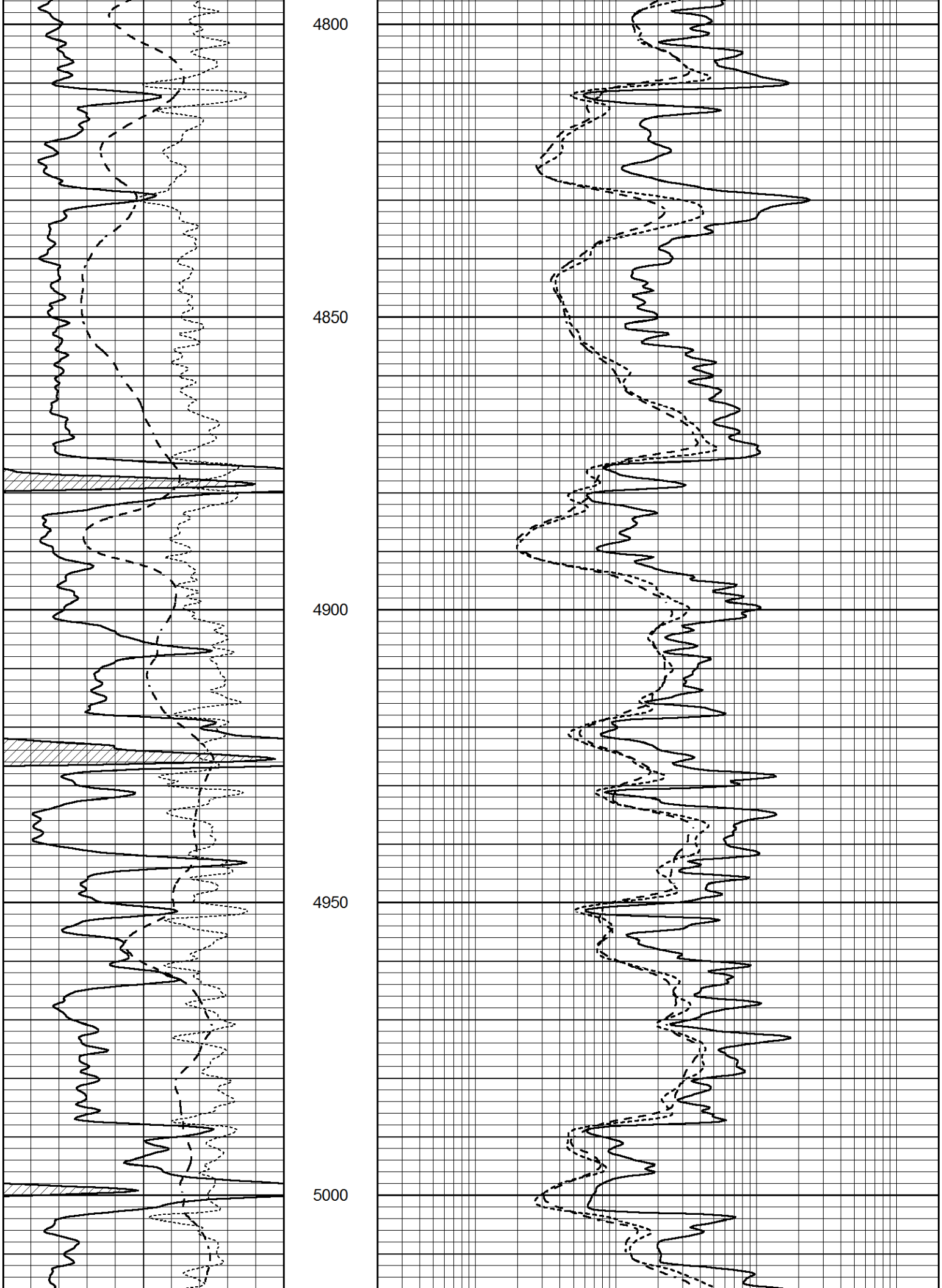
4650
4700
4750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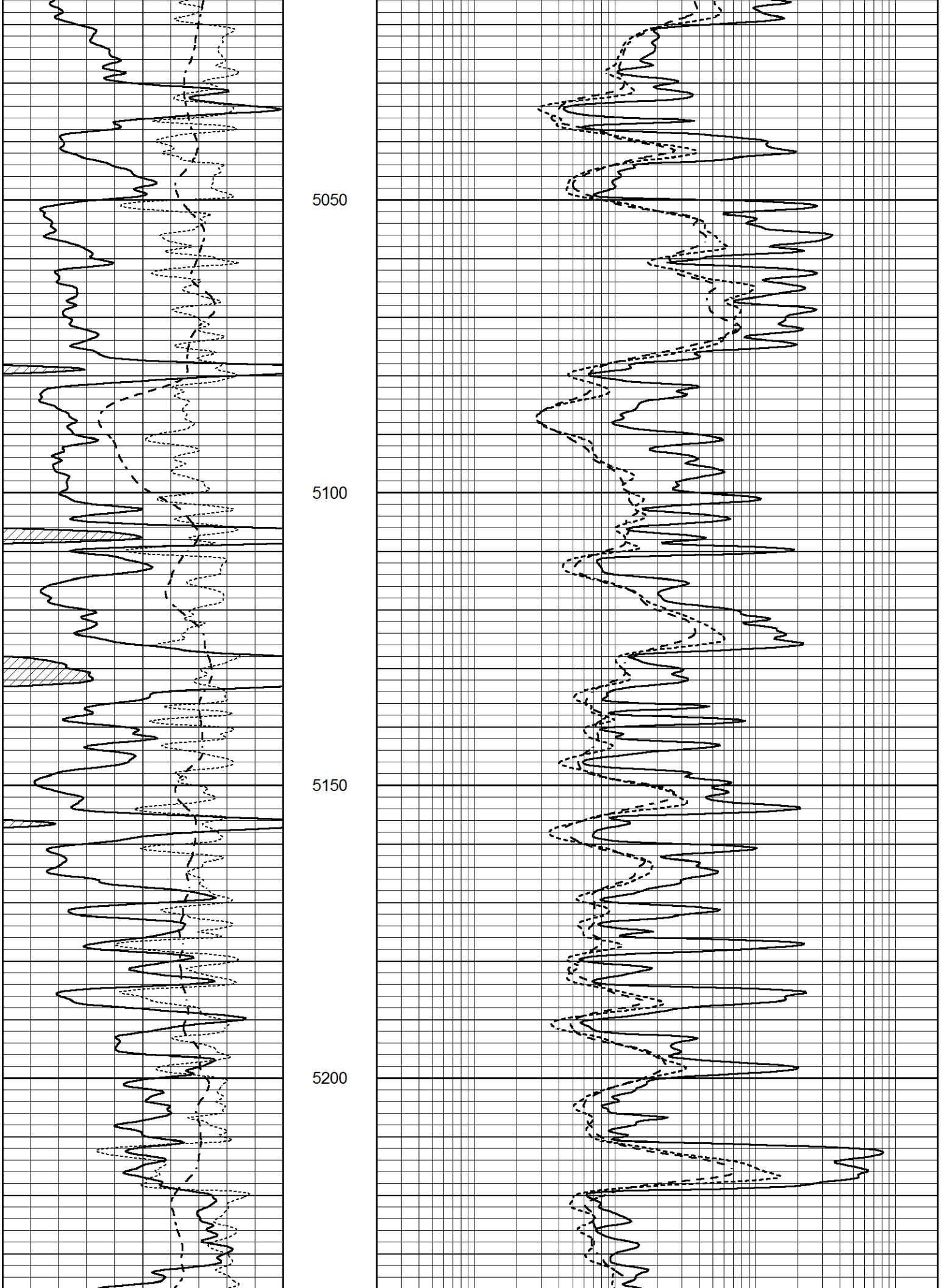
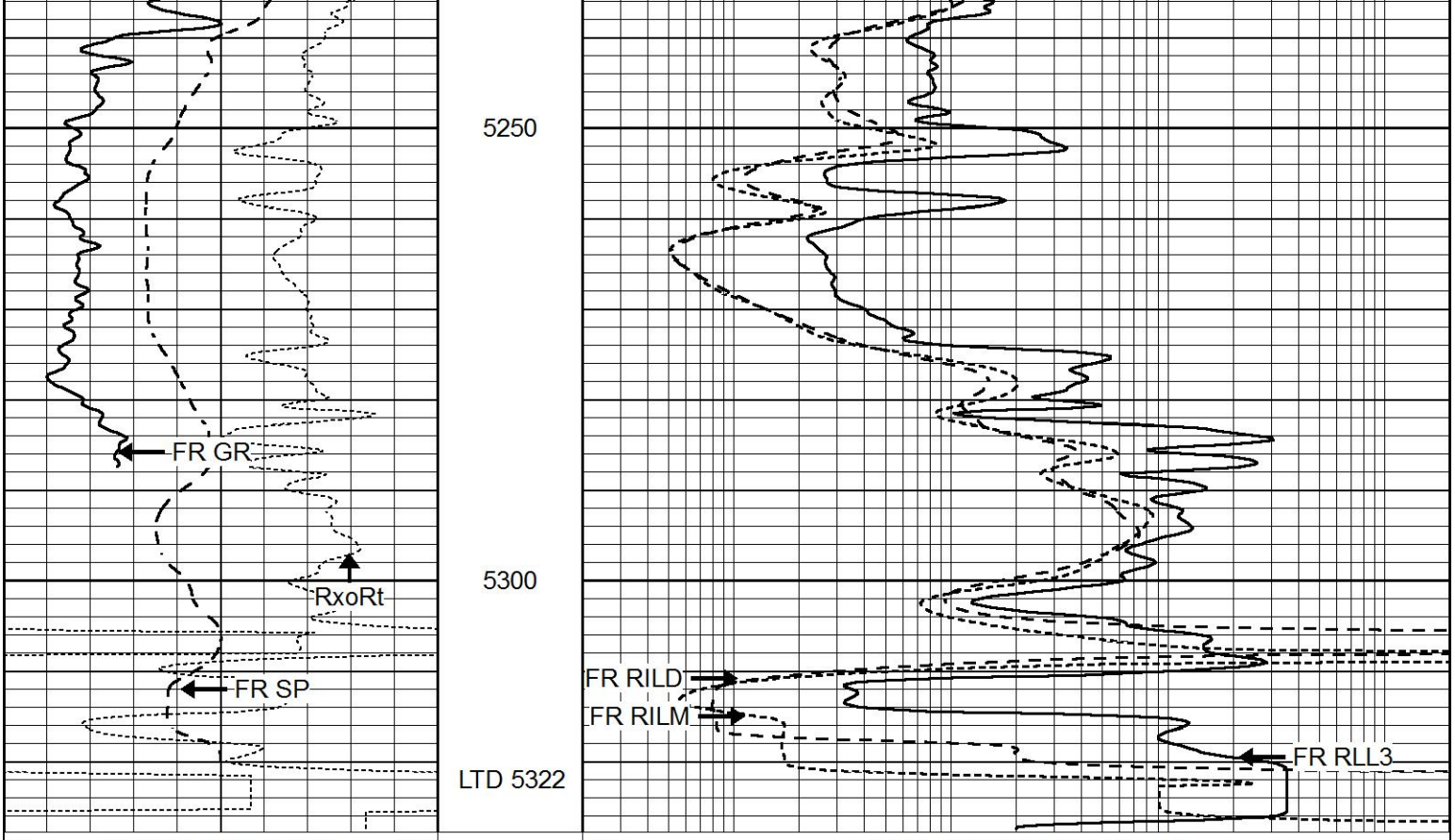
4850
4900
4950
5000


5050
5100
5150
5200




| | | |
|---|---|---|
| 0 | GAMMA RAY (GAPI) | 150 |
| -100 | SP (mV) | 100 |
| -250 | Rxo/Rt | 50 |

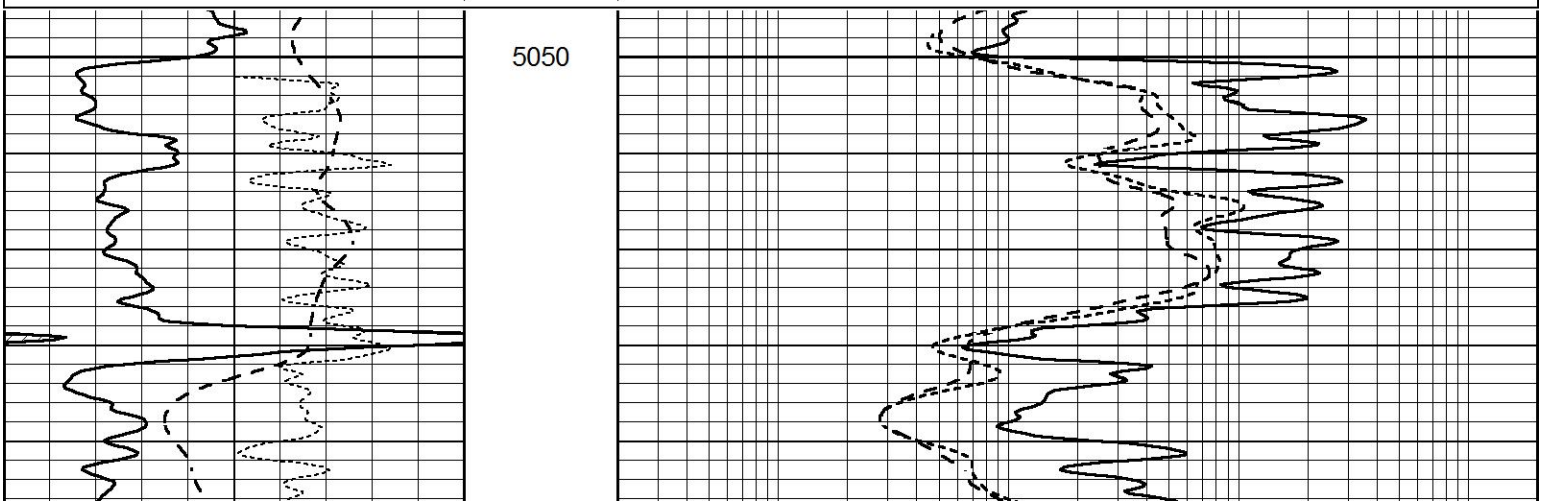
| | | |
|---|---|---|
| 0.2 | SHALLOW GUARD (Ohm-m) | 2000 |
| 0.2 | MEDIUM INDUCTION (Ohm-m) | 2000 |
| 0.2 | DEEP INDUCTION (Ohm-m) | 2000 |

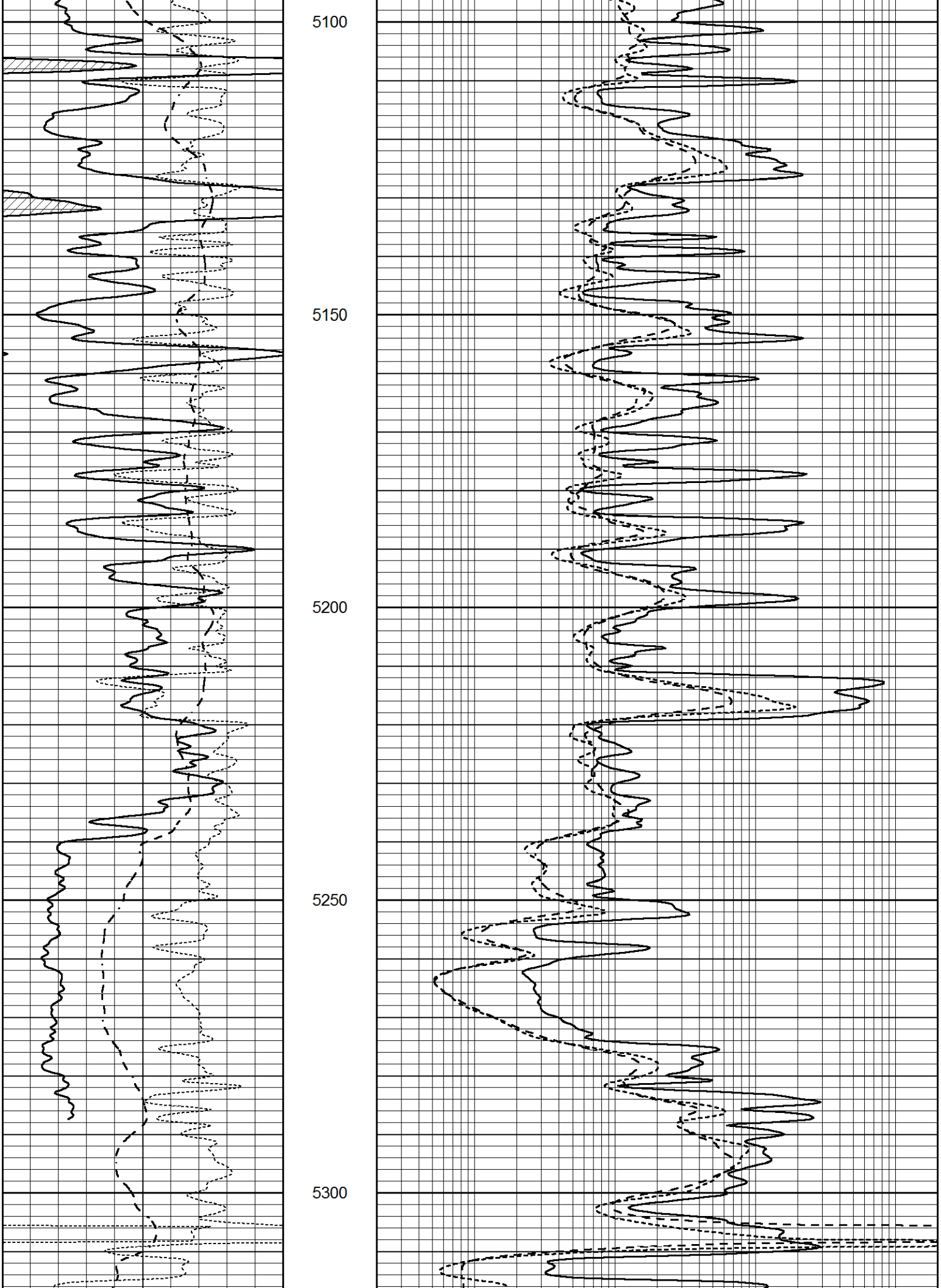
# REPEAT SECTION

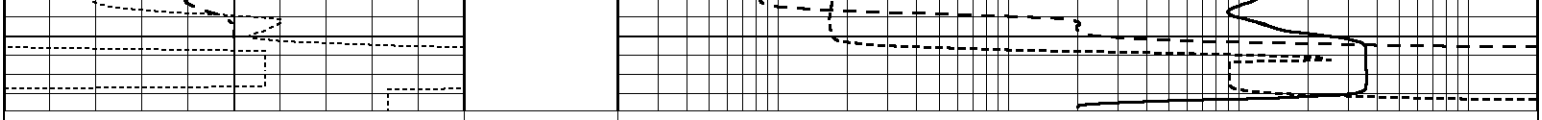
| | |
|---|---|
| Database File | 4431pe.db |
| Dataset Pathname | pass3.1 |
| Presentation Format | _dil |
| Dataset Creation | Mon Nov 11 07:24:04 2019 |
| Charted by | Depth in Feet scaled 1:240 |

| | | |
|---|---|---|
| 0 | GAMMA RAY (GAPI) | 150 |
| -100 | SP (mV) | 100 |
| -250 | Rxo/Rt | 50 |

| | | |
|---|---|---|
| 0.2 | SHALLOW GUARD (Ohm-m) | 2000 |
| 0.2 | MEDIUM INDUCTION (Ohm-m) | 2000 |
| 0.2 | DEEP INDUCTION (Ohm-m) | 2000 |




5100
5150
5200
5250
5300



| | | | | | |
|---|---|---|---|---|---|
| 0 | GAMMA RAY (GAPI) | 150 | 0.2 | SHALLOW GUARD (Ohm-m) | 2000 |
| -100 | SP (mV) | 100 | 0.2 | MEDIUM INDUCTION (Ohm-m) | 2000 |
| -250 | Rxo/Rt | 50 | 0.2 | DEEP INDUCTION (Ohm-m) | 2000 |

## Calibration Report

Database File 4431pe.db
Dataset Pathname pass3.1
Dataset Creation Mon Nov 11 07:24:04 2019

## Dual Induction Calibration Report

Serial-Model: FW1410-55-Probe
Surface Cal Performed: Tue Feb 19 11:44:18 2019
Downhole Cal Performed: Tue Feb 19 11:44:24 2019
After Survey Verification Performed: Tue Feb 19 11:44:27 2019

### Surface Calibration

| | Readings | | | References | | | Results | |
|---|---|---|---|---|---|---|---|---|
| Loop: | Air | Loop | | Air | Loop | | m | b |
| Deep | 0.011 | 0.656 | V | 1.000 | 400.000 | mmho/m | 618.595 | -5.524 |
| Medium | -0.000 | 0.731 | V | 1.000 | 464.000 | mmho/m | 632.856 | 1.197 |
| Internal: | Zero | Cal | | Zero | Cal | | m | b |
| Deep | 0.007 | 0.649 | V | 0.000 | 400.000 | mmho/m | 623.784 | -4.595 |
| Medium | 0.004 | 0.743 | V | 0.000 | 464.000 | mmho/m | 627.284 | -2.251 |

### Downhole Calibration

| | Readings | | | References | | | Results | |
|---|---|---|---|---|---|---|---|---|
| | Zero | Cal | | Zero | Cal | | m' | b' |
| Deep | -0.824 | 395.917 | mmho/m | -0.976 | 397.550 | mmho/m | 1.004 | -0.149 |
| Medium | 3.565 | 471.327 | mmho/m | 3.468 | 471.590 | mmho/m | 1.001 | -0.099 |
| LL3 | | 7.503 | V | | 1500.000 | Ohm-m | | |
| | | 0.001 | V | | 20.000 | Ohm-m | | |
| | | -7.481 | V | | 3745.000 | mmho-m | | |

### After Survey Verification

| | Readings | | | Targets | | | Results | |
|---|---|---|---|---|---|---|---|---|
| | Zero | Cal | | Zero | Cal | | m' | b' |
| Deep | 0.000 | 0.000 | mmho/m | -0.824 | 395.917 | mmho/m | 1.000 | 0.000 |
| Medium | 0.000 | 0.000 | mmho/m | 3.565 | 471.327 | mmho/m | 1.000 | 0.000 |
| LL3 | | 0.000 | Ohm-m | | 1500.000 | Ohm-m | | |
| | | 0.000 | Ohm-m | | 20.000 | Ohm-m | | |
| | | 0.000 | mmho-m | | 3745.000 | mmho-m | | |

## Litho Density Calibration Report

Serial: 140704
Model: V4_10P
Source Number: 74GBq-19

### Master Calibration

Performed: Fri Jan 18 10:53:52 2019

| | Background | Aluminum | Magnesium | |
|---|---|---|---|---|
| Window 1 | 563.20 | 5403.39 | 24190.50 | cps |
| Window 2 | 44.78 | 1243.51 | 6049.93 | cps |

| | | | | |
|---|---|---|---|---|
| Window 4 | 247.62 | 1222.40 | 5239.60 | cps |
| Window 5 | 568.17 | 8975.27 | 17094.80 | cps |
| Window 6 | 44.48 | 1484.88 | 2922.28 | cps |
| Window 8 | 270.82 | 2877.34 | 5377.89 | cps |
| Bulk Density | - | 2.6020 | 1.6830 | g/cc |
| Pe | - | 3.0000 | 2.5070 | b/e |

LS Alpha: : -1.8641 SS Alpha: : -0.7692 LS CPE: : 1.1004
LS Beta: : 127931.7253 SS Beta: : 20075.8142 SS CPE: : 1.5209

Before Survey Backround Counts Verification Performed: Wed Dec 31 18:00:00 1969

| | | |
|---|---|---|
| Window 1 | 0.00 | cps |
| Window 2 | 0.00 | cps |
| Window 4 | 0.00 | cps |
| Window 5 | 0.00 | cps |
| Window 6 | 0.00 | cps |
| Window 8 | 0.00 | cps |

After Survey Background Counts Verification Performed: Wed Dec 31 18:00:00 1969

| | | |
|---|---|---|
| Window 1 | 0.00 | cps |
| Window 2 | 0.00 | cps |
| Window 4 | 0.00 | cps |
| Window 5 | 0.00 | cps |
| Window 6 | 0.00 | cps |
| Window 8 | 0.00 | cps |

Lithodensity Caliper Calibration Performed: Fri Jan 18 10:53:52 2019

| Results Readings | | References (in) | | | |
|---|---|---|---|---|---|
| Low | High | Low | High | Gain | Offset |
| 3586.3 | 5529.9 | 8.0 | 16.0 | 0.0 | -6.8 |

Before Survey Caliper Verification Performed:

| | Reference | Reading |
|---|---|---|
| Caliper (in) | | |

After Survey Caliper Verification Performed:

| | Reference | Reading |
|---|---|---|
| Caliper (in) | | |

## Compensated Neutron Calibration Report

Serial Number: 080621PMC
Tool Model: NABORS

PRE-SURVEY VERIFICATION

| Detector | Readings | Measured | Target |
|---|---|---|---|
| Short Space | cps | | |
| Long Space | cps | pu | pu |

POST-SURVEY VERIFICATION

| Detector | Readings | Measured | Target |
|---|---|---|---|
| Short Space | cps | | |
| Long Space | cps | pu | pu |

## Gamma Ray Calibration Report

| | | |
|---|---|---|
| Serial Number: | 7 | |
| Tool Model: | Probe1 | |
| Performed: | Tue Feb 19 11:45:10 2019 | |
| Calibrator Value: | 1.0 | GAPI |
| Background Reading: | 0.0 | cps |
| Calibrator Reading: | 1.0 | cps |
| Sensitivity: | 0.4300 | GAPI/cps |