# DUAL INDUCTION LOG

Company EDISON OPERATING COMPANY, LLC.

Well DAVIS RANCH #1-15

Field SHAEFFER - ROTHGARN

County STAFFORD State KANSAS

Location: API # : 15-185-24143-0000

330' FSL & 2310' FWL

SEC 15 TWP 21S RGE 13W

Other Services
CDL/CNL/PE
MEL/SONIC

Permanent Datum GROUND LEVEL Elevation 1879
Log Measured From KELLY BUSHING 5' A.G.L.
Drilling Measured From KELLY BUSHING

Elevation
K.B. 1884
D.F. 1882
G.L. 1879

Company EDISON OPERATING CO. LLC.
Well DAVIS RANCH #1-15
Field SHAEFFER - ROTHGARN
County STAFFORD
State KANSAS

| | | | |
|---|---|---|---|
| Date | 8/7/23 | | |
| Run Number | ONE | | |
| Depth Driller | 3760 | | |
| Depth Logger | 3756 | | |
| Bottom Logged Interval | 3754 | | |
| Top Log Interval | 00 | | |
| Casing Driller | 8 5/8"@387' | | |
| Casing Logger | 381 | | |
| Bit Size | 7 7/8" | | |
| Type Fluid in Hole | CHEMICAL MUD | CHLORIDES 9,000 PPM | |
| Density / Viscosity | 9.1/53 | | |
| pH / Fluid Loss | 10.0/12.0 | | |
| Source of Sample | FLOWLINE | | |
| Rm @ Meas. Temp | .380@84F | | |
| Rmf @ Meas. Temp | .285@84F | | |
| Rmc @ Meas. Temp | .456@84F | | |
| Source of Rmf / Rmc | MEASUREMENT | | |
| Rm @ BHT | .280@114F | | |
| Time Circulation Stopped | 2 HOURS | | |
| Time Logger on Bottom | 12:00 P.M. | | |
| Maximum Recorded Temperature | 114F | | |
| Equipment Number | 922339 | | |
| Location | HAYS, KANSAS | | |
| Recorded By | JEFF LUEBBERS | | |
| Witnessed By | DEREK W. PATTERSON | | |

<<< Fold Here >>>



Comments

15-185-24143-0000

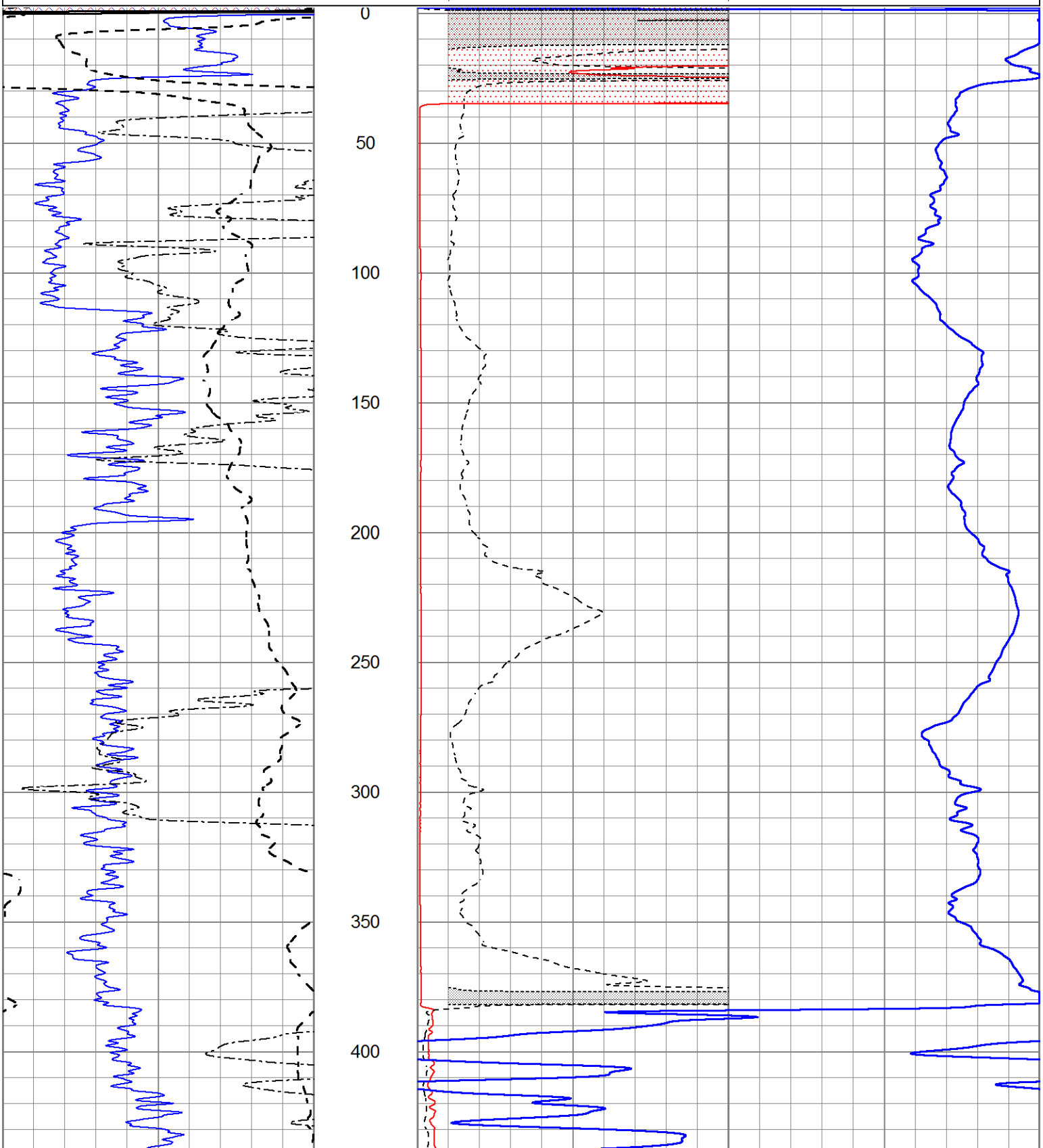
THANK YOU FOR USING ELI WIRELINE HAYS, KANSAS (785) 628-6395
DIRECTIONS
GREAT BEND, KS., 10S. ON HWY 281 TO "NE 180TH", 1/2E., N. INTO

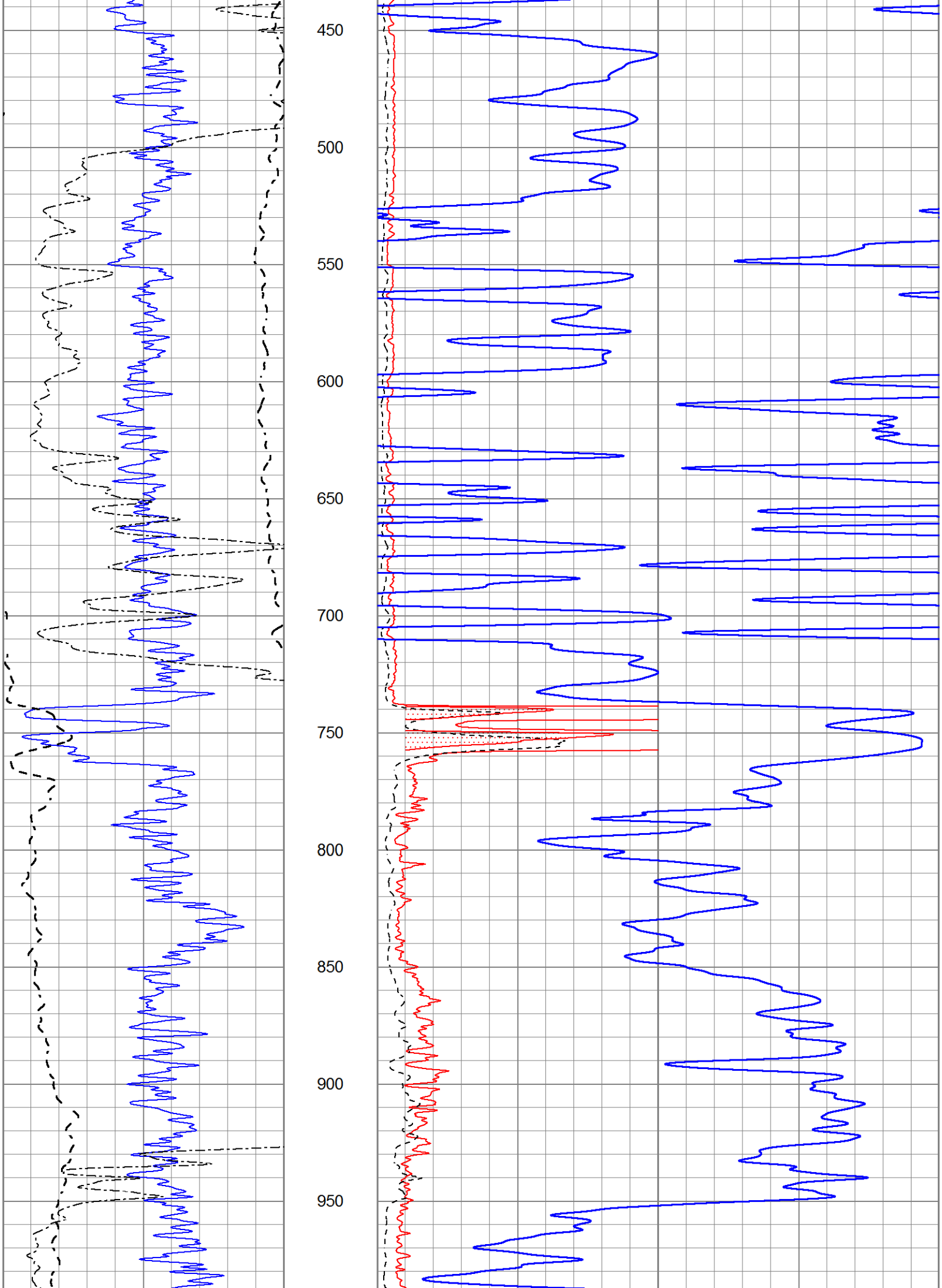
MAIN SECTION

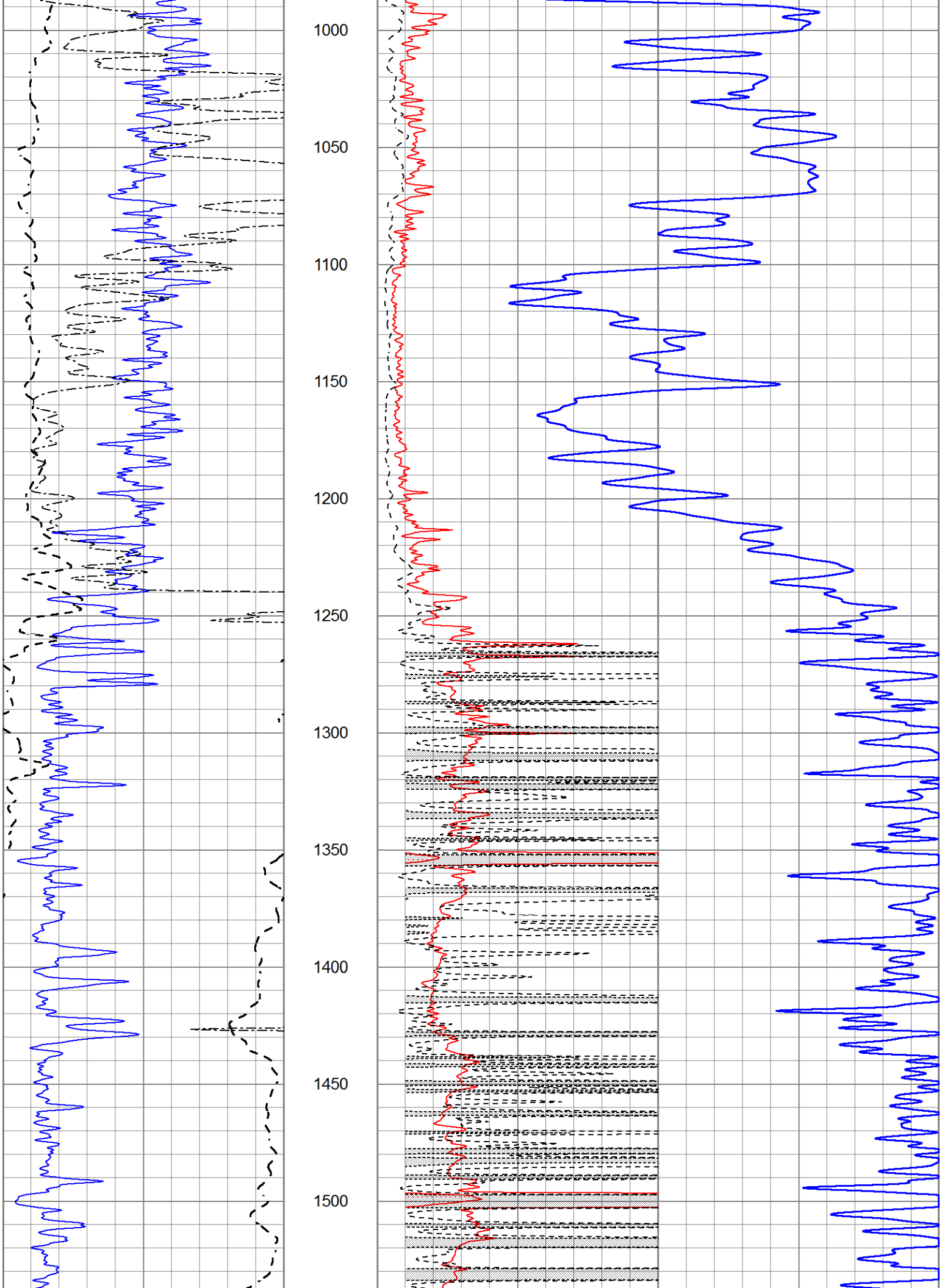
| | |
|---|---|
| Database File | 7317pe.db |
| Dataset Pathname | pass3.2M |
| Presentation Format | _dil2 |
| Dataset Creation | Mon Aug 07 13:54:43 2023 |
| Charted by | Depth in Feet scaled 1:600 |

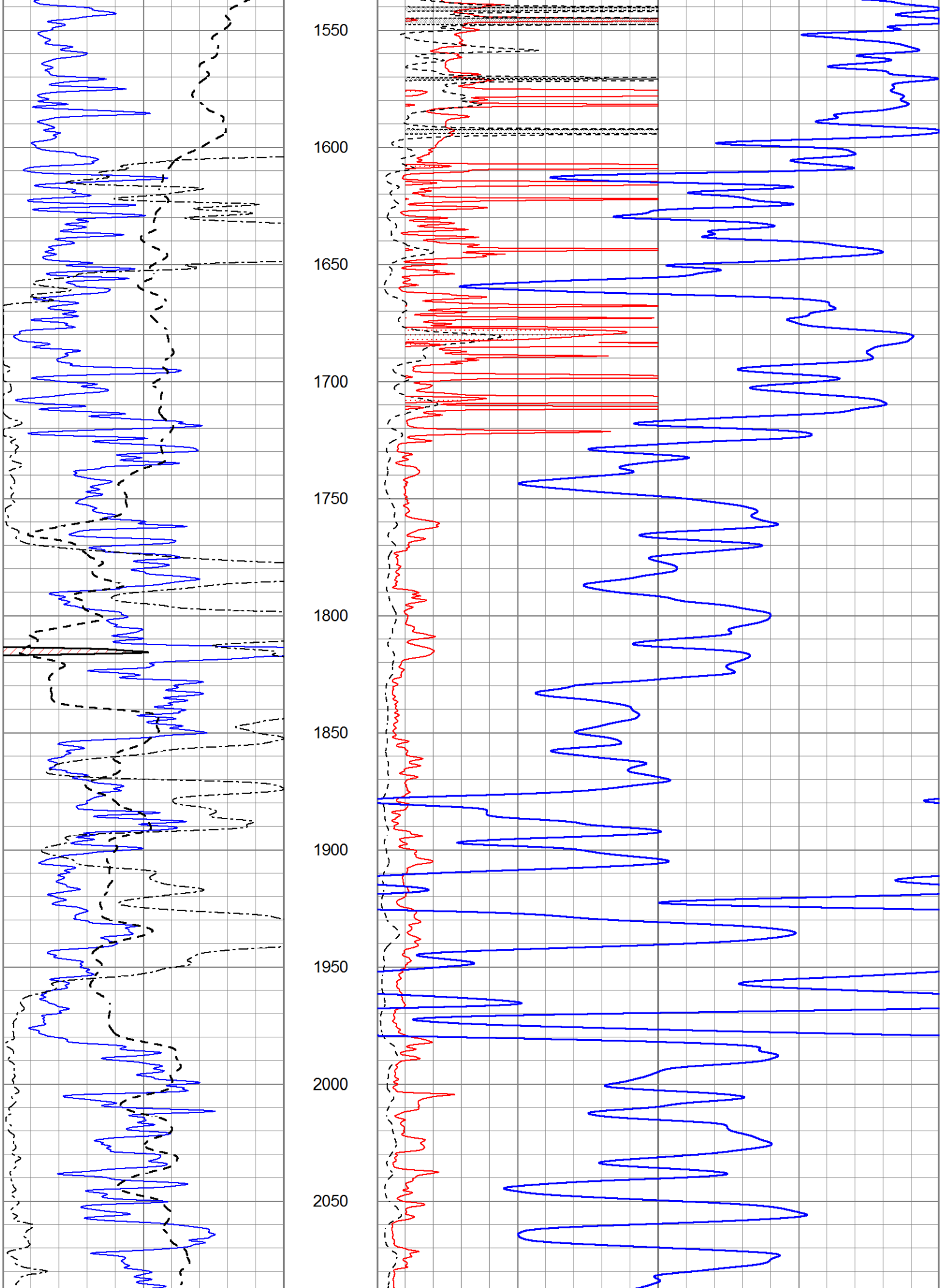
| | | |
|---|---|---|
| 0 | Gamma Ray (GAPI) | 150 |
| -100 | SP (mV) | 100 |
| 0 | RWA (Ohm-m) | 1 |

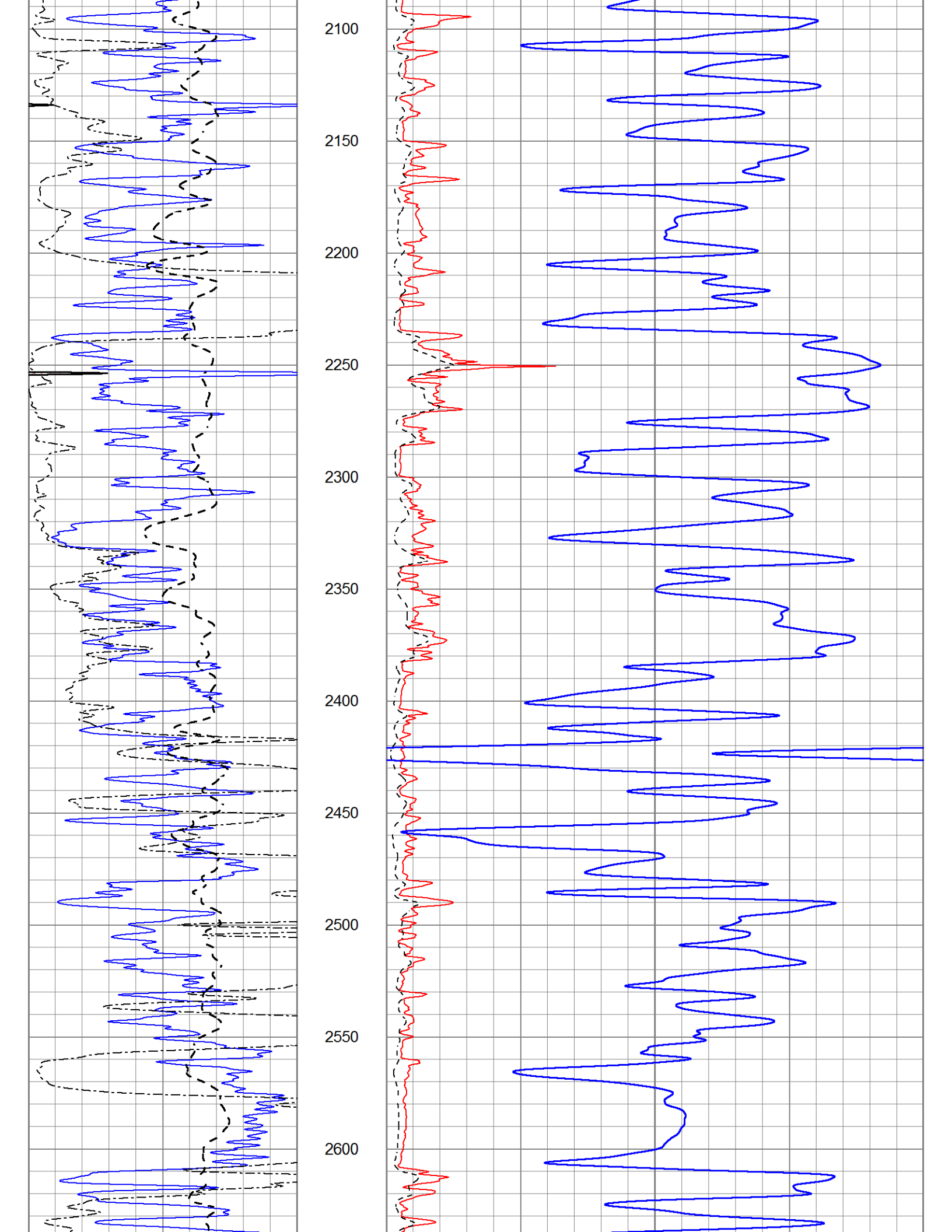
| | | |
|---|---|---|
| 1000 | CILD (mmho/m) | 0 |
| 0 | RLL3 (Ohm-m) | 50 |
| 0 | RILD (Ohm-m) | 50 |
| 50 | RILD X10 (Ohm-m) | 500 |
| 50 | RLL3 X10 (Ohm-m) | 500 |

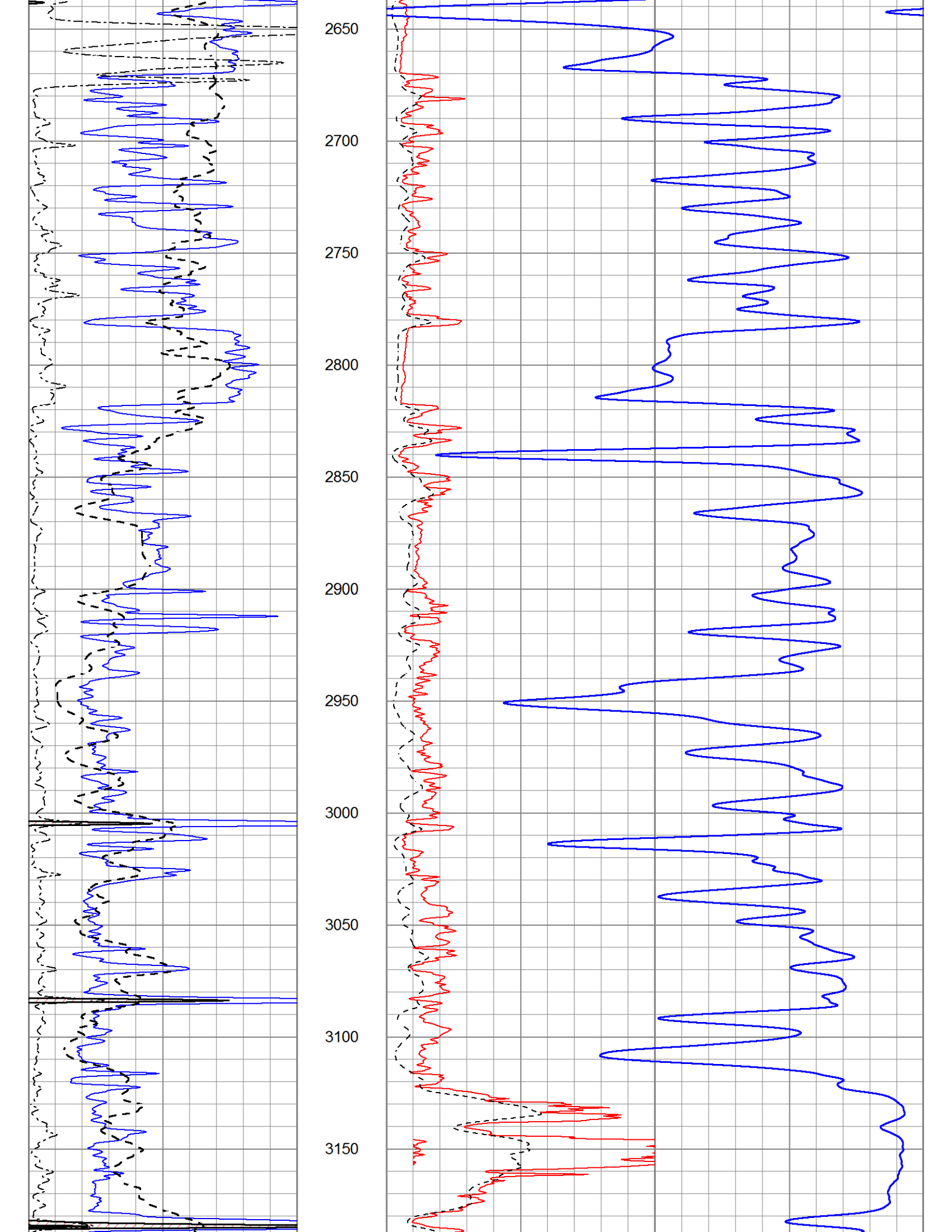


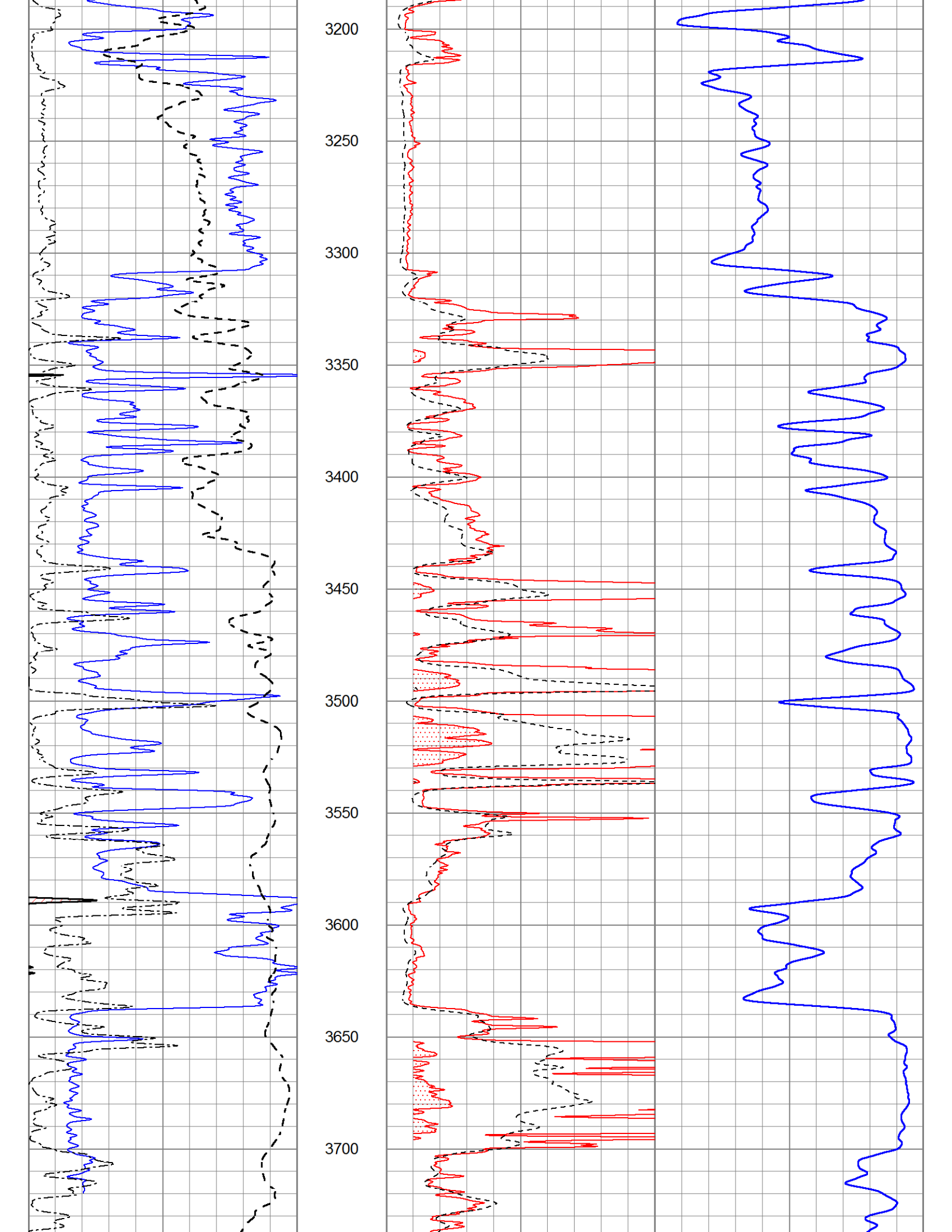

450
500
550
600
650
700
750
800
850
900
950

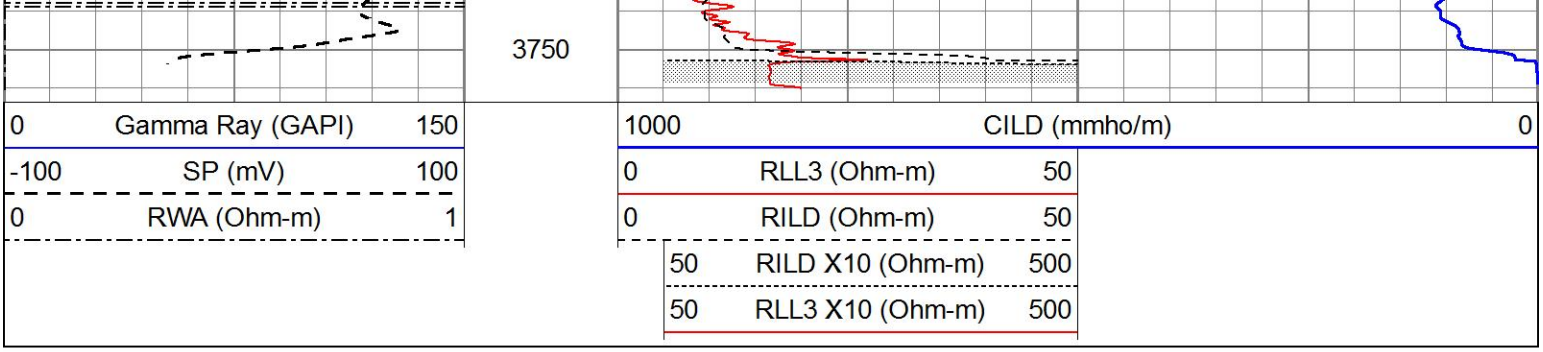

1000
1050
1100
1150
1200
1250
1300
1350
1400
1450
1500


1550
1600
1650
1700
1750
1800
1850
1900
1950
2000
2050


2100
2150
2200
2250
2300
2350
2400
2450
2500
2550
2600

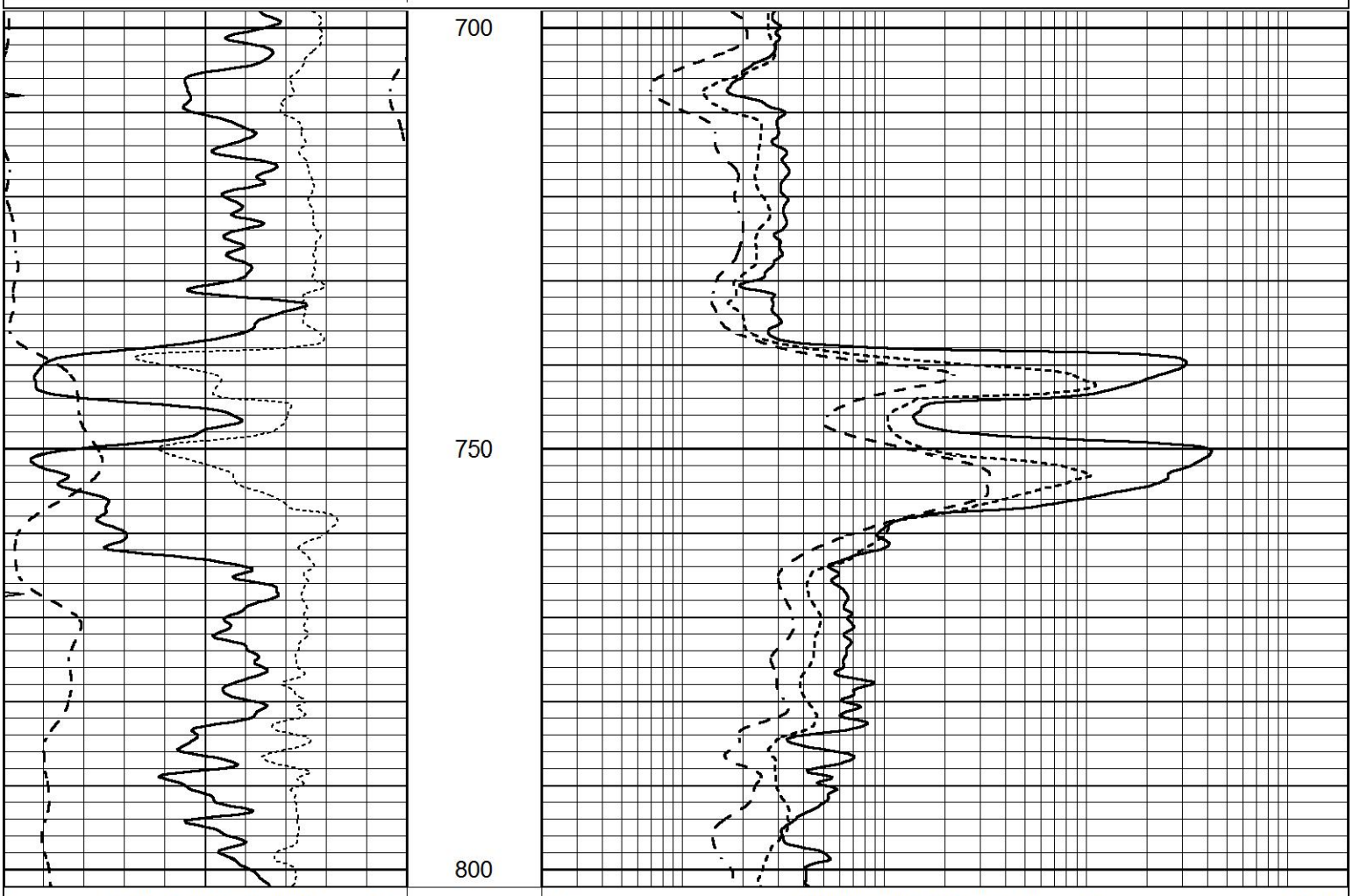

2650
2700
2750
2800
2850
2900
2950
3000
3050
3100
3150


3200
3250
3300
3350
3400
3450
3500
3550
3600
3650
3700




# ANHYDRITE

| | |
|---|---|
| Database File | 7317pe.db |
| Dataset Pathname | pass3.2A |
| Presentation Format | _dil |
| Dataset Creation | Mon Aug 07 13:58:55 2023 |
| 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 DEEP INDUCTION (Ohm-m) 2000
0.2 MEDIUM INDUCTION (Ohm-m) 2000

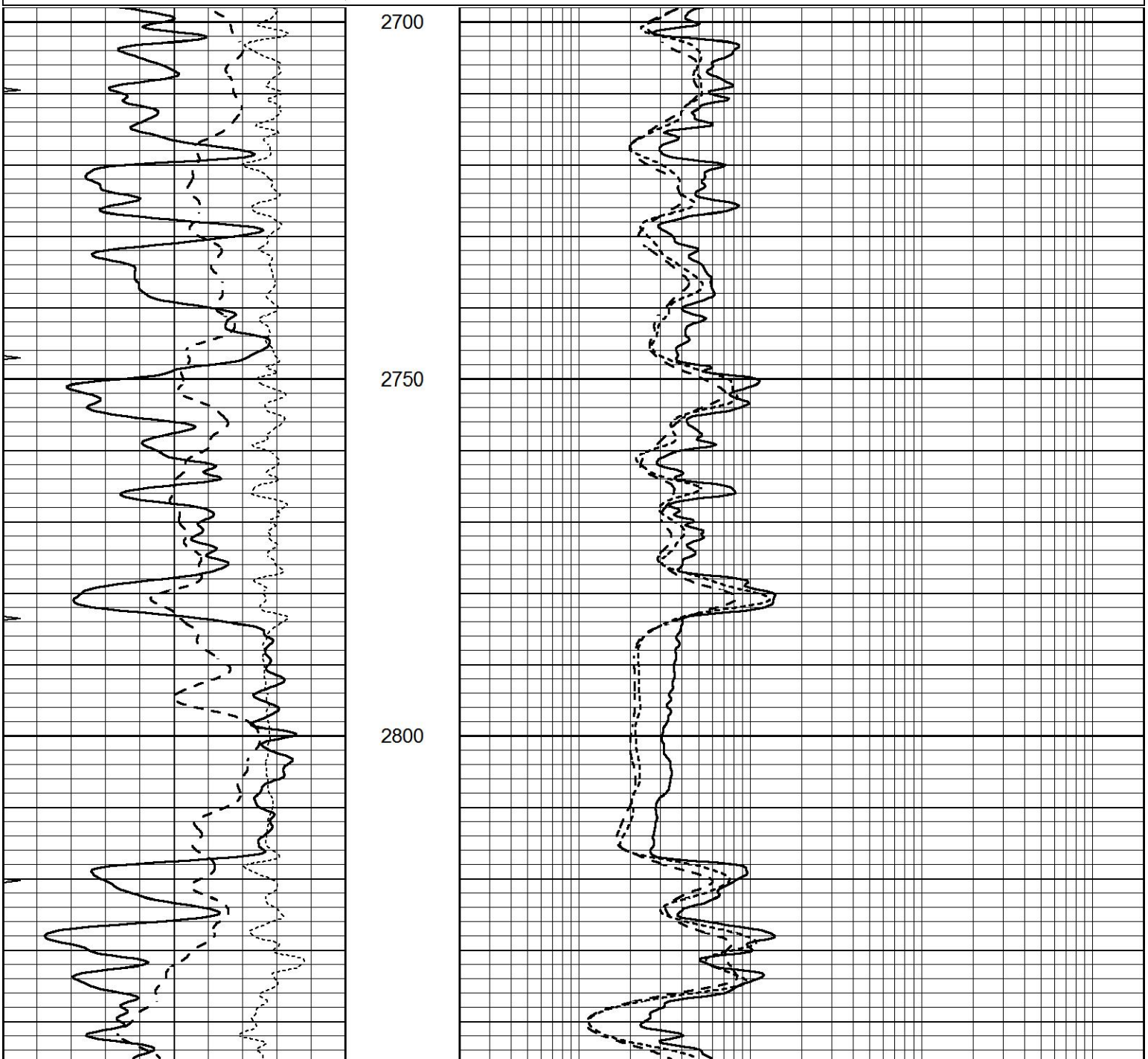
| | | |
|---|---|---|
| 0 | MINMK | 20 |

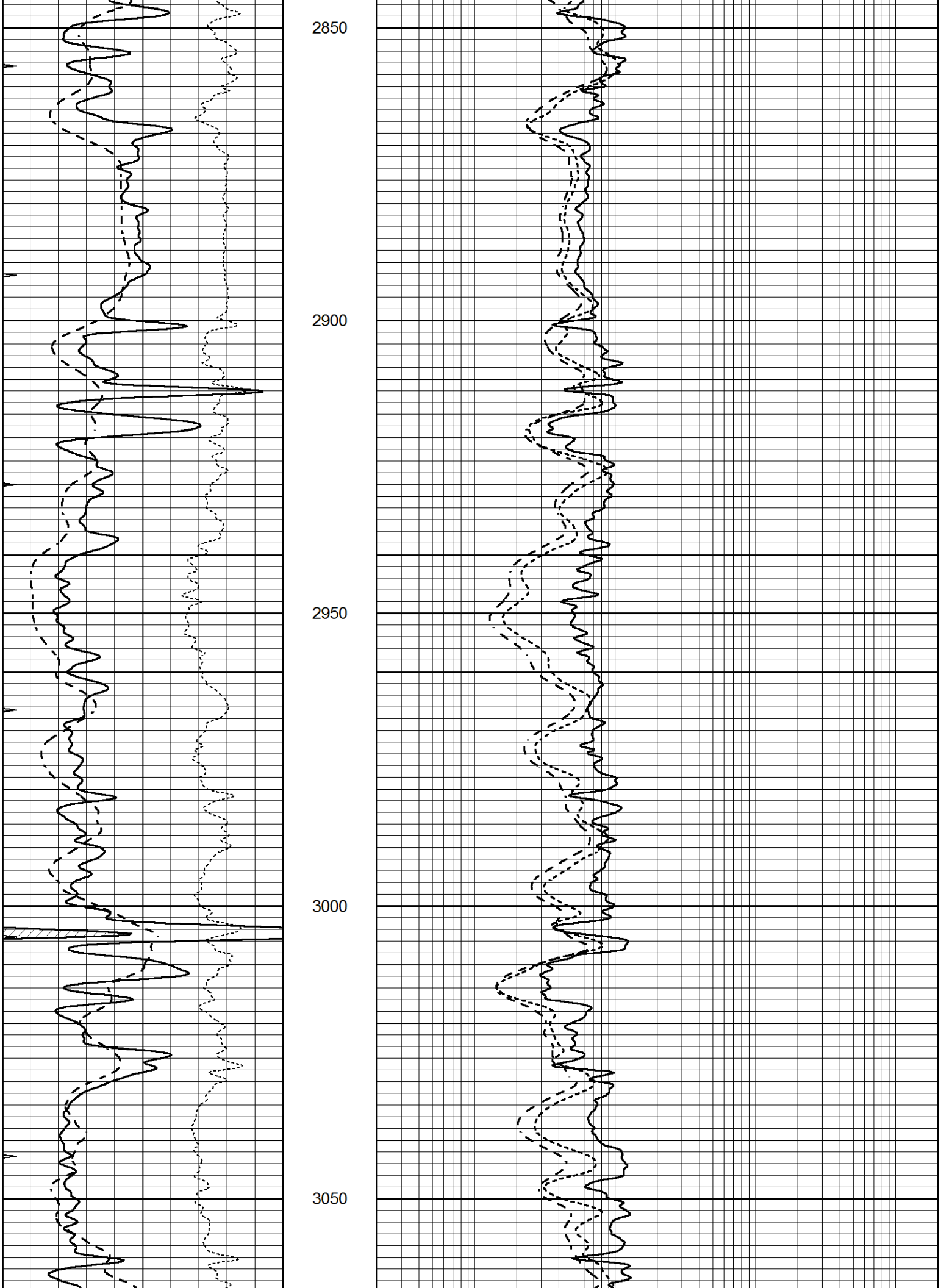
# MAIN SECTION

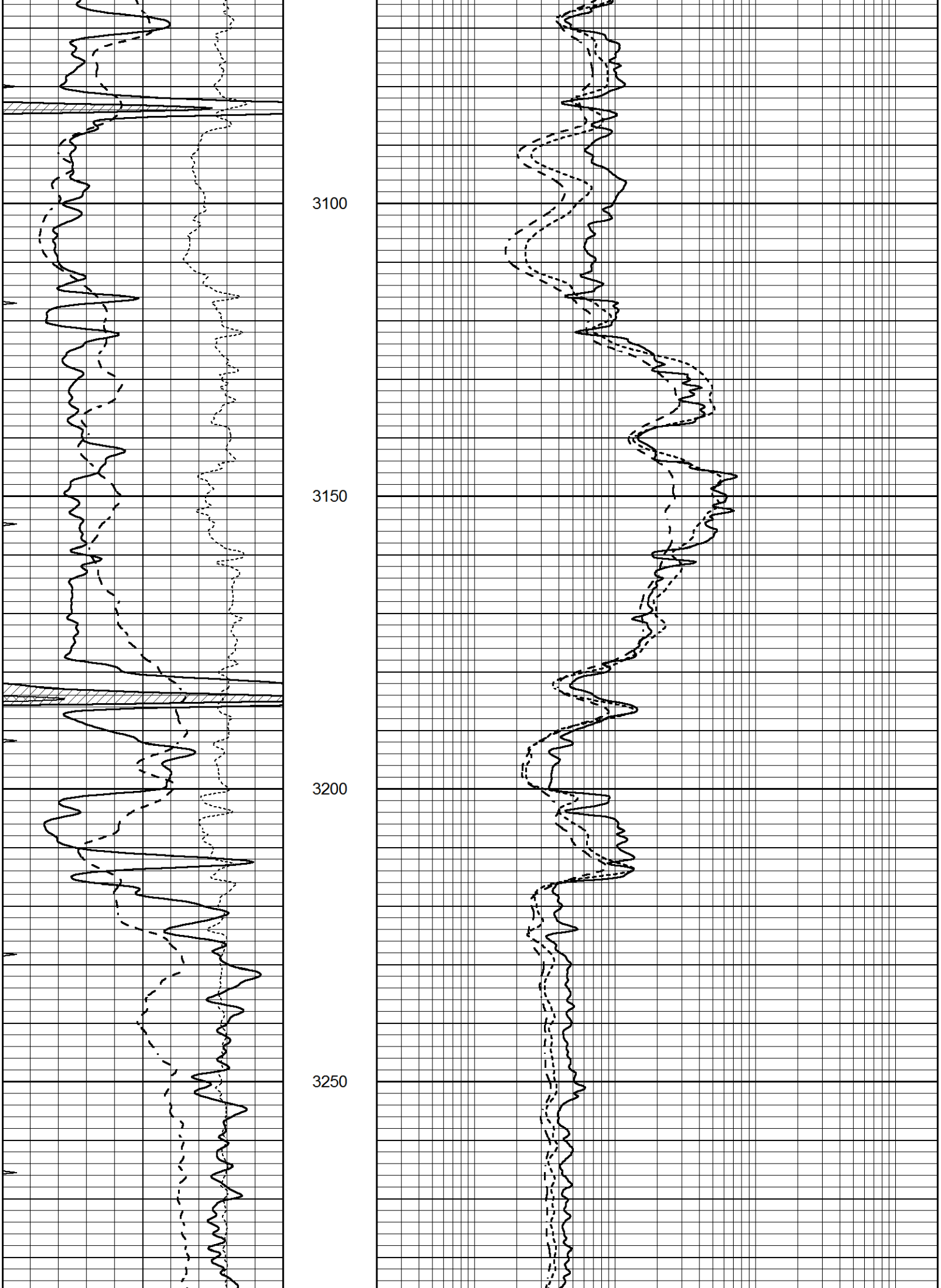
| | |
|---|---|
| Database File | 7317pe.db |
| Dataset Pathname | pass3.2M |
| Presentation Format | _dil |
| Dataset Creation | Mon Aug 07 13:54:43 2023 |
| Charted by | Depth in Feet scaled 1:240 |

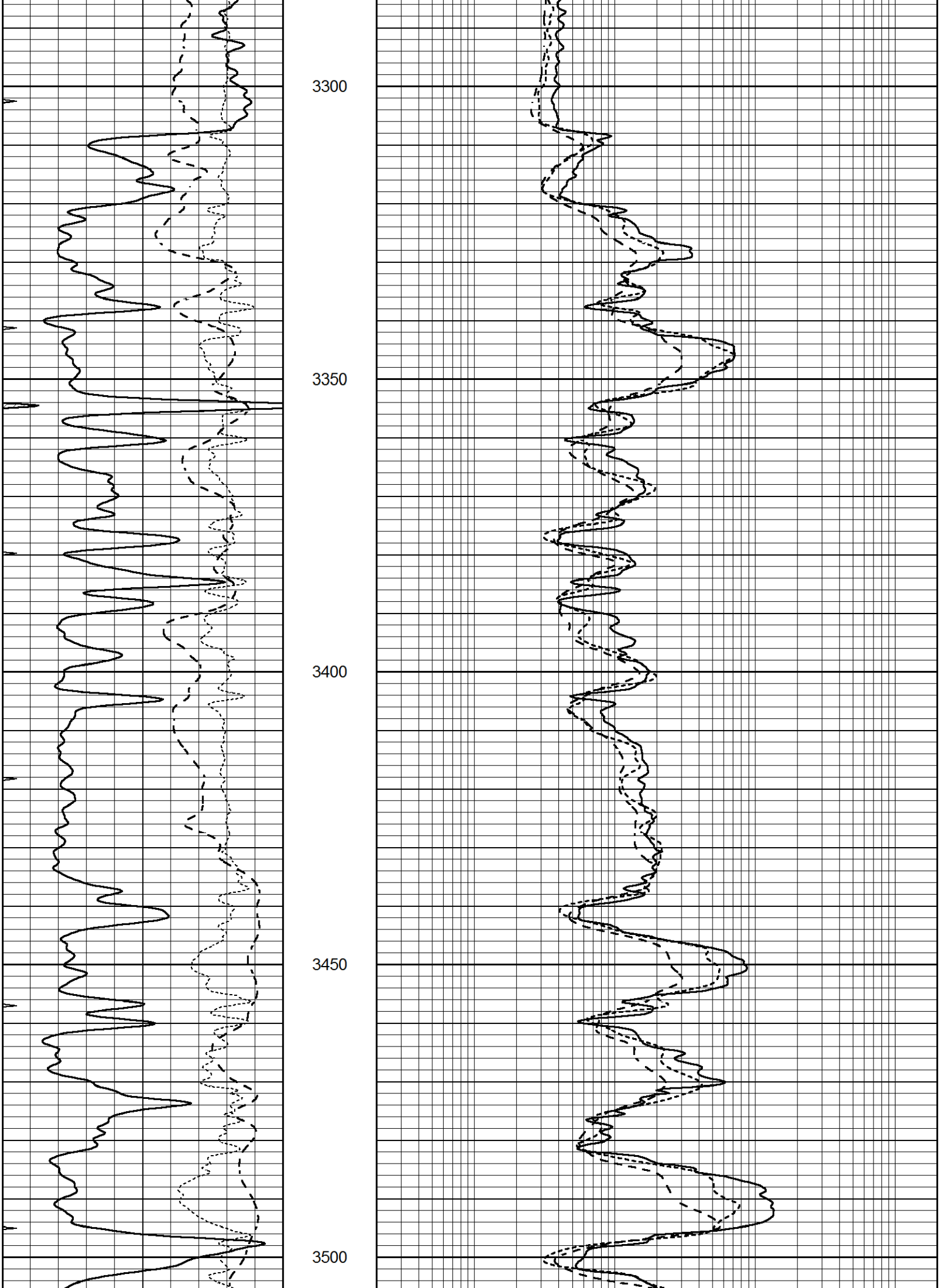
| | | |
|---|---|---|
| 0 | GAMMA RAY (GAPI) | 150 |
| -100 | SP (mV) | 100 |
| -250 | Rxo/Rt | 50 |
| 0 | MINMK | 20 |

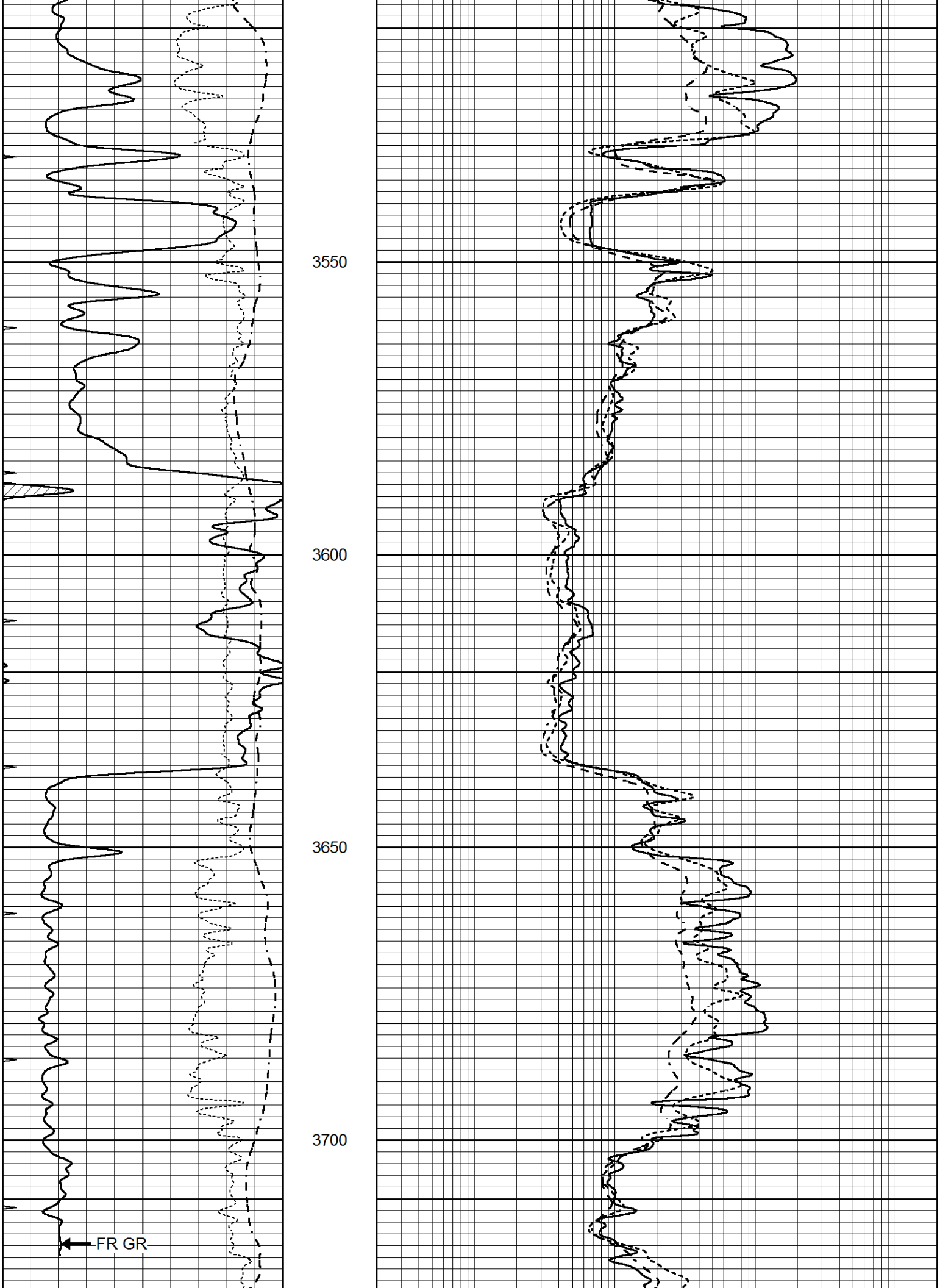
| | | |
|---|---|---|
| 0.2 | SHALLOW GUARD (Ohm-m) | 2000 |
| 0.2 | DEEP INDUCTION (Ohm-m) | 2000 |
| 0.2 | MEDIUM INDUCTION (Ohm-m) | 2000 |

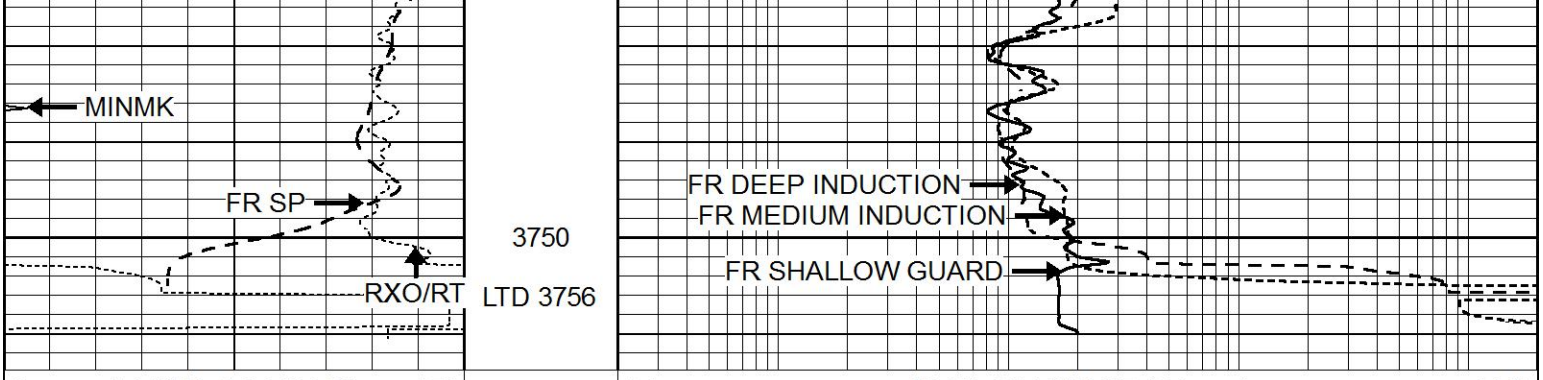



2850
2900
2950
3000
3050


3100
3150
3200
3250


3300
3350
3400
3450
3500


3550
3600
3650
3700
FR GR




| | | |
|---|---|---|
| 0 | GAMMA RAY (GAPI) | 150 |
| -100 | SP (mV) | 100 |
| -250 | Rxo/Rt | 50 |
| 0 | MINMK | 20 |

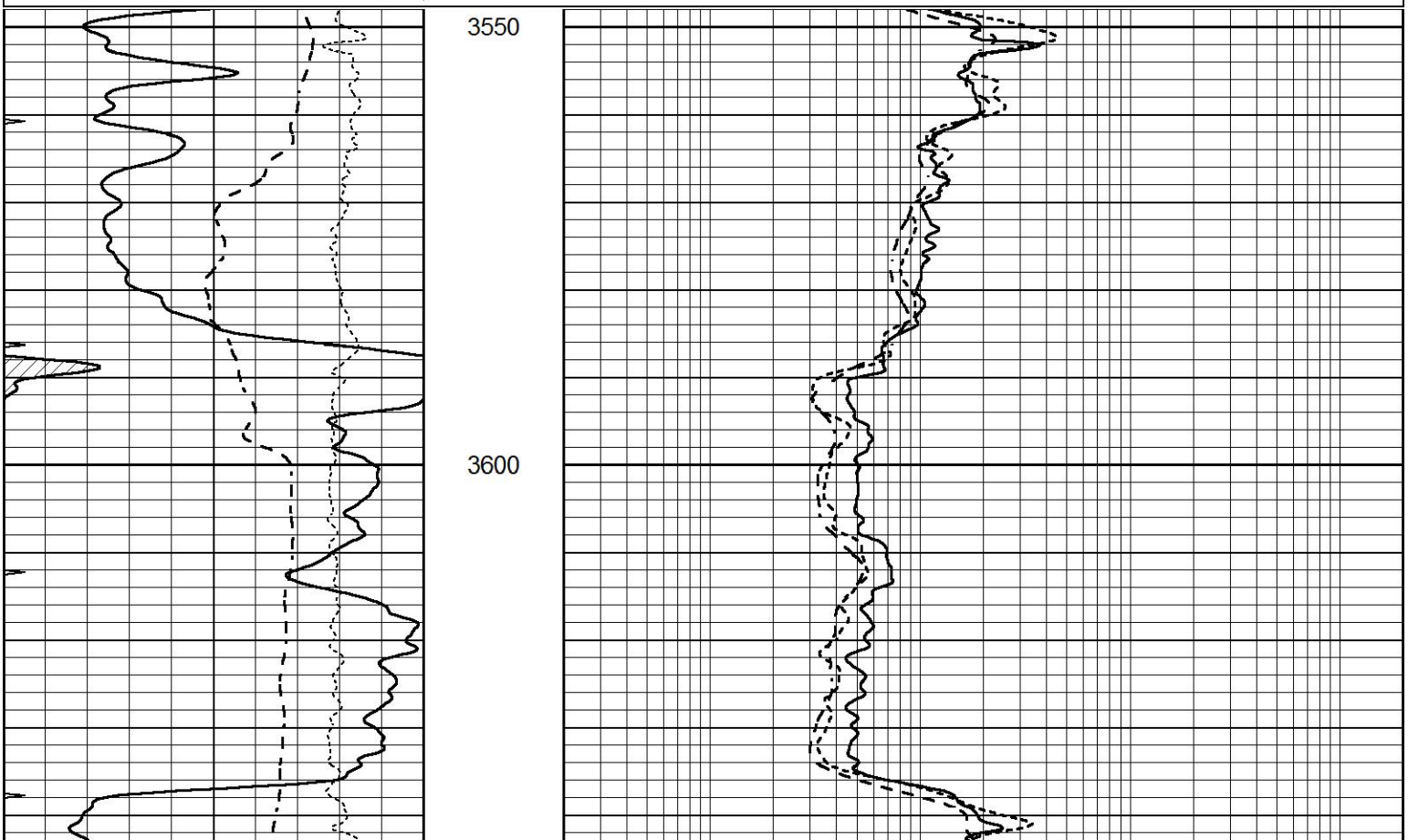
| | | |
|---|---|---|
| 0.2 | SHALLOW GUARD (Ohm-m) | 2000 |
| 0.2 | DEEP INDUCTION (Ohm-m) | 2000 |
| 0.2 | MEDIUM INDUCTION (Ohm-m) | 2000 |

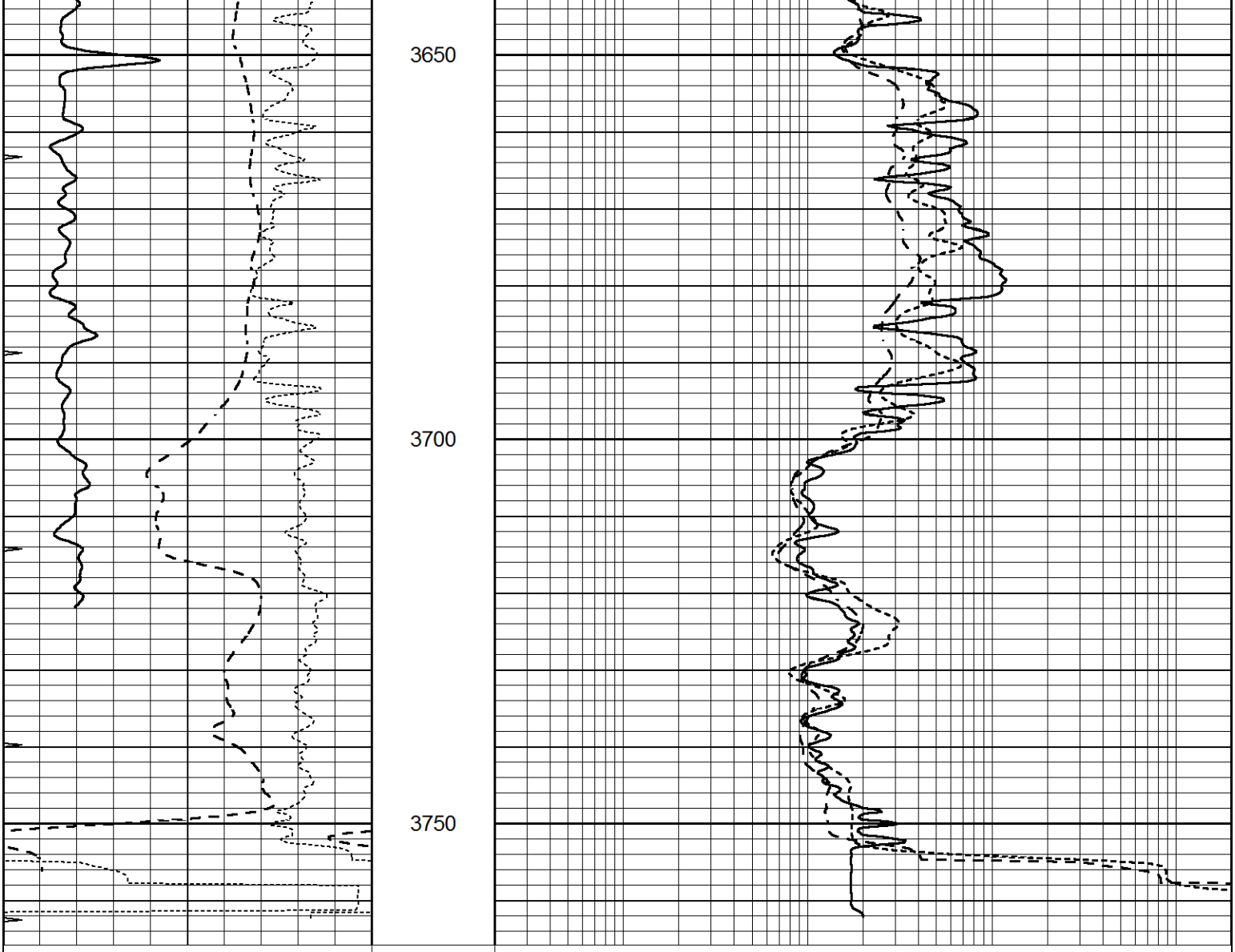
# REPEAT SECTION

| | |
|---|---|
| Database File | 7317pe.db |
| Dataset Pathname | pass2.1R |
| Presentation Format | _dil |
| Dataset Creation | Mon Aug 07 13:00:12 2023 |
| Charted by | Depth in Feet scaled 1:240 |

| | | |
|---|---|---|
| 0 | GAMMA RAY (GAPI) | 150 |
| -100 | SP (mV) | 100 |
| -250 | Rxo/Rt | 50 |
| 0 | MINMK | 20 |

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






## Calibration Report

| | |
|---|---|
| Database File | 7317pe.db |
| Dataset Pathname | pass3.2M |
| Dataset Creation | Mon Aug 07 13:54:43 2023 |

### Dual Induction Calibration Report

| | |
|---|---|
| Serial-Model: | PROBE8-DILG |
| Surface Cal Performed: | Mon Aug 07 13:26:19 2023 |
| Downhole Cal Performed: | Mon Jul 28 11:08:27 2008 |
| After Survey Verification Performed: | Mon Jul 28 11:08:27 2008 |

Surface Calibration

| | Readings | | | References | | | Results | |
|---|---|---|---|---|---|---|---|---|
| Loop: | Air | Loop | | Air | Loop | | m | b |
| Deep | 0.015 | 0.648 | V | 0.000 | 400.000 | mmho/m | 660.000 | 20.000 |
| Medium | 0.029 | 0.796 | V | 0.000 | 464.000 | mmho/m | 620.000 | -2.000 |
| Internal: | Zero | Cal | | Zero | Cal | | m | b |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Deep | 0.017 | 0.657 | V | 0.000 | 400.000 | mmho/m | 625.153 | -10.619 |
| Medium | 0.016 | 0.757 | V | 0.000 | 464.000 | mmho/m | 625.992 | -9.739 |

Downhole Calibration

| | Readings | | | References | | | Results | |
|---|---|---|---|---|---|---|---|---|
| | Zero | Cal | | Zero | Cal | | m' | b' |
| Deep | 0.000 | 0.000 | mmho/m | 2.011 | 405.777 | mmho/m | 1.000 | 0.000 |
| Medium | 0.000 | 0.000 | mmho/m | 7.590 | 503.393 | mmho/m | 1.000 | 0.000 |
| LL3 | | 7.500 | V | | 1500.000 | Ohm-m | | |
| | | 0.000 | V | | 20.000 | Ohm-m | | |
| | | -7.200 | V | | 3800.000 | mmho-m | | |

After Survey Verification

| | Readings | | | Targets | | | Results | |
|---|---|---|---|---|---|---|---|---|
| | Zero | Cal | | Zero | Cal | | m' | b' |
| Deep | 0.000 | 0.000 | mmho/m | 0.000 | 0.000 | mmho/m | 0.000 | 0.000 |
| Medium | 0.000 | 0.000 | mmho/m | 0.000 | 0.000 | mmho/m | 0.000 | 0.000 |
| LL3 | | 1.000 | Ohm-m | | 1.000 | Ohm-m | | |
| | | 0.000 | Ohm-m | | 0.000 | Ohm-m | | |
| | | 1.000 | mmho-m | | 1.000 | mmho-m | | |

## Litho Density Calibration Report
Serial: 004 Model: PRB

Master Calibration — Performed Tue Aug 02 11:29:35 2022

| | Background | Magnesium | Aluminum | Aluminum+Fe | |
|---|---|---|---|---|---|
| Window 1 | 1154.2 | 10019.5 | 3137.9 | 2795.6 | cps |
| Window 2 | 1054.4 | 8597.6 | 2733.4 | 2469.5 | cps |
| Window 3 | 902.3 | 5241.4 | 1832.1 | 1719.3 | cps |
| Window 4 | 251.9 | 261.1 | 255.8 | 252.9 | cps |
| Long Space | 0.0 | 7543.2 | 1679.0 | 1415.0 | cps |
| Short Space | 4.4 | 2049.3 | 1321.7 | 1116.8 | cps |
| Rho | | 1.7100 | 2.5900 | 0.0000 | g/cc |
| Pe | | 2.0000 | 2.7500 | 5.7900 | |

| | | | | | |
|---|---|---|---|---|---|
| Rib Angle | : 43.7 | Rib Slope | : 0.957 | Density/Spine Ratio | : 0.562 |
| Spine Angle | : 73.7 | Spine Slope | : 3.426 | Spine Intercept | : -17.2 |

Before Survey Verification — Performed Wed Dec 31 18:00:00 1969

| | | | | | |
|---|---|---|---|---|---|
| Window 1 | 0.0 | 0.0 | 0.0 | 0.0 | cps |
| Window 2 | 0.0 | 0.0 | 0.0 | 0.0 | cps |
| Window 3 | 0.0 | 0.0 | 0.0 | 0.0 | cps |
| Window 4 | 0.0 | 0.0 | 0.0 | 0.0 | cps |
| Long Space | 0.0 | 0.0 | 0.0 | 0.0 | cps |
| Short Space | 0.0 | 0.0 | 0.0 | 0.0 | cps |
| Measured Rho | | 0.0000 | 0.0000 | 0.0000 | g/cc |
| Measured Correction | | 0.0000 | 0.0000 | 0.0000 | g/cc |
| Measured Pe | | | 0.0000 | 0.0000 | |

After Survey Verification — Performed Wed Dec 31 18:00:00 1969

| | | | | | |
|---|---|---|---|---|---|
| Window 1 | 0.0 | 0.0 | 0.0 | 0.0 | cps |
| Window 2 | 0.0 | 0.0 | 0.0 | 0.0 | cps |
| Window 3 | 0.0 | 0.0 | 0.0 | 0.0 | cps |
| Window 4 | 0.0 | 0.0 | 0.0 | 0.0 | cps |

| | | | | | |
|---|---|---|---|---|---|
| Long Space | 0.0 | 0.0 | 0.0 | 0.0 | cps |
| Short Space | 0.0 | 0.0 | 0.0 | 0.0 | cps |
| Measured Rho | | 0.0000 | 0.0000 | 0.0000 | g/cc |
| Measured Correction | | 0.0000 | 0.0000 | 0.0000 | g/cc |
| Measured Pe | | | 0.0000 | 0.0000 | |

## Compensated Neutron Calibration Report

Serial Number: 070808PMC
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: 070558
Tool Model: OPEN_GR
Performed: Tue Aug 01 12:36:48 2023

Calibrator Value: 1.0 GAPI

Background Reading: 0.0 cps
Calibrator Reading: 1.0 cps

Sensitivity: 0.3000 GAPI/cps