



## DUAL INDUCTION LOG

|                              |                                                             |                                  |                      |
|------------------------------|-------------------------------------------------------------|----------------------------------|----------------------|
| Company                      | CHARTER ENERGY, INC.                                        | Company                          | CHARTER ENERGY, INC. |
| Well                         | MILLER #1                                                   | Well                             | MILLER #1            |
| Field                        | CHEYENNE VIEW                                               | Field                            | CHEYENNE VIEW        |
| County                       | BARTON                                                      | County                           | BARTON               |
| State                        | KANSAS                                                      | State                            | KANSAS               |
| Location:                    | API # : 15-009-26351-0000<br>660' FSL & 660' FWL<br>SW - SW | Other Services<br>CDL/CNL<br>MEL |                      |
| Permanent Datum              | SEC 24 TWP 19S RGE 12W                                      | Elevation                        |                      |
| Log Measured From            | GROUND LEVEL Elevation 1800                                 | K.B. 1810                        |                      |
| Drilling Measured From       | KELLY BUSHING 10' A.G.L.<br>KELLY BUSHING                   | D.F. 1808                        |                      |
|                              |                                                             | G.L. 1800                        |                      |
| Date                         | 5/24/22                                                     |                                  |                      |
| Run Number                   | ONE                                                         |                                  |                      |
| Depth Driller                | 3455                                                        |                                  |                      |
| Depth Logger                 | 3456                                                        |                                  |                      |
| Bottom Logged Interval       | 3454                                                        |                                  |                      |
| Top Log Interval             | 00                                                          |                                  |                      |
| Casing Driller               | 8 5/8"@362'                                                 |                                  |                      |
| Casing Logger                | 362                                                         |                                  |                      |
| Bit Size                     | 7 7/8"                                                      |                                  |                      |
| Type Fluid in Hole           | CHEMICAL MUD                                                | CHLORIDES: 4,500 PPM             |                      |
| Density / Viscosity          | 9.2/59                                                      |                                  |                      |
| pH / Fluid Loss              | 10.0/5.8                                                    |                                  |                      |
| Source of Sample             | FLOWLINE                                                    |                                  |                      |
| Rm @ Meas. Temp              | .420@74F                                                    |                                  |                      |
| Rmf @ Meas. Temp             | .315@74F                                                    |                                  |                      |
| Rmc @ Meas. Temp             | .504@74F                                                    |                                  |                      |
| Source of Rmf / Rmc          | MEASURED                                                    |                                  |                      |
| Rm @ BHT                     | .280@111F                                                   |                                  |                      |
| Time Circulation Stopped     | 2 HOURS                                                     |                                  |                      |
| Time Logger on Bottom        | 3:30 A.M.                                                   |                                  |                      |
| Maximum Recorded Temperature | 111F                                                        |                                  |                      |
| Equipment Number             | 8916                                                        |                                  |                      |
| Location                     | HAYS, KANSAS                                                |                                  |                      |
| Recorded By                  | JEFF LUEBBERS                                               |                                  |                      |
| Witnessed By                 | JOSH AUSTIN                                                 |                                  |                      |

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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.

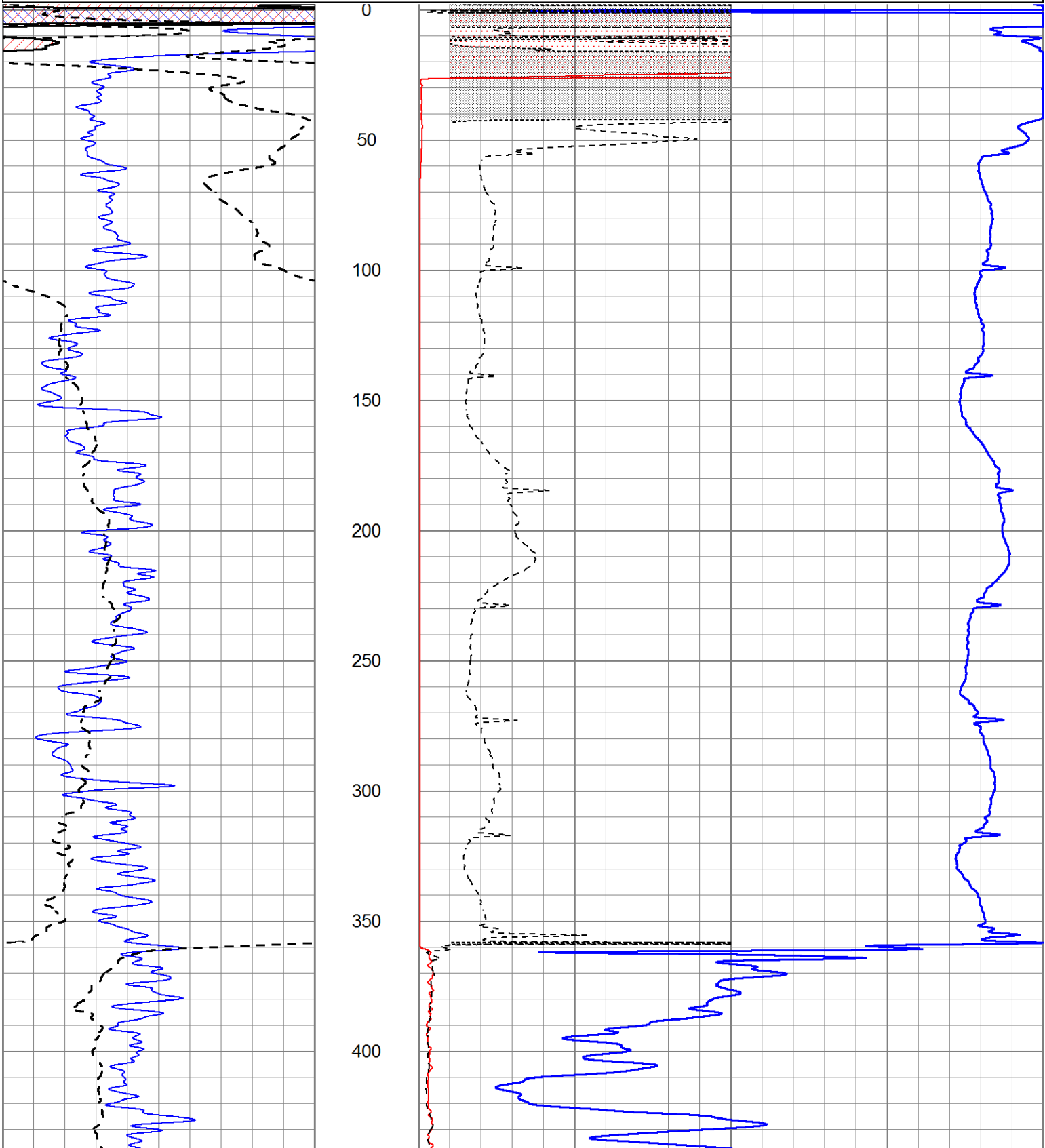
### Comments

THANK YOU FOR USING ELI WIRELINE, HAYS, KS. (785) 628-6395  
DIRECTIONS:  
ELLINWOOD, KS., E. TO "SOUTHWINDS YARD", 1 1/4N., E. INTO

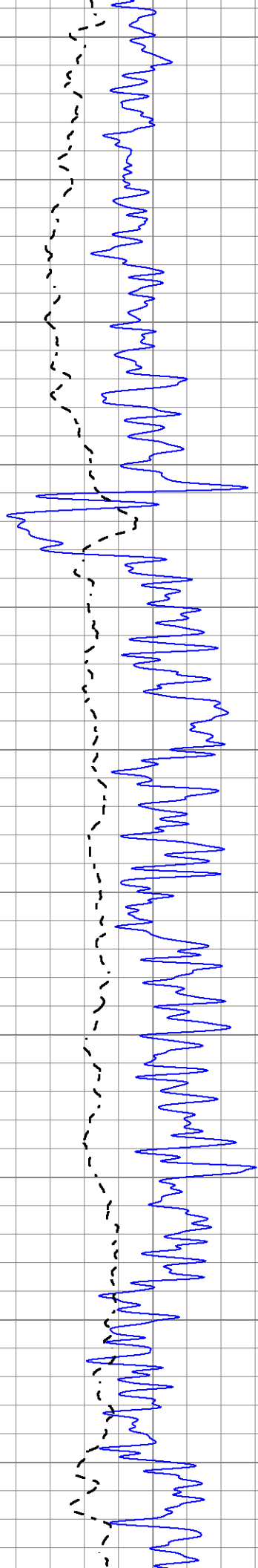
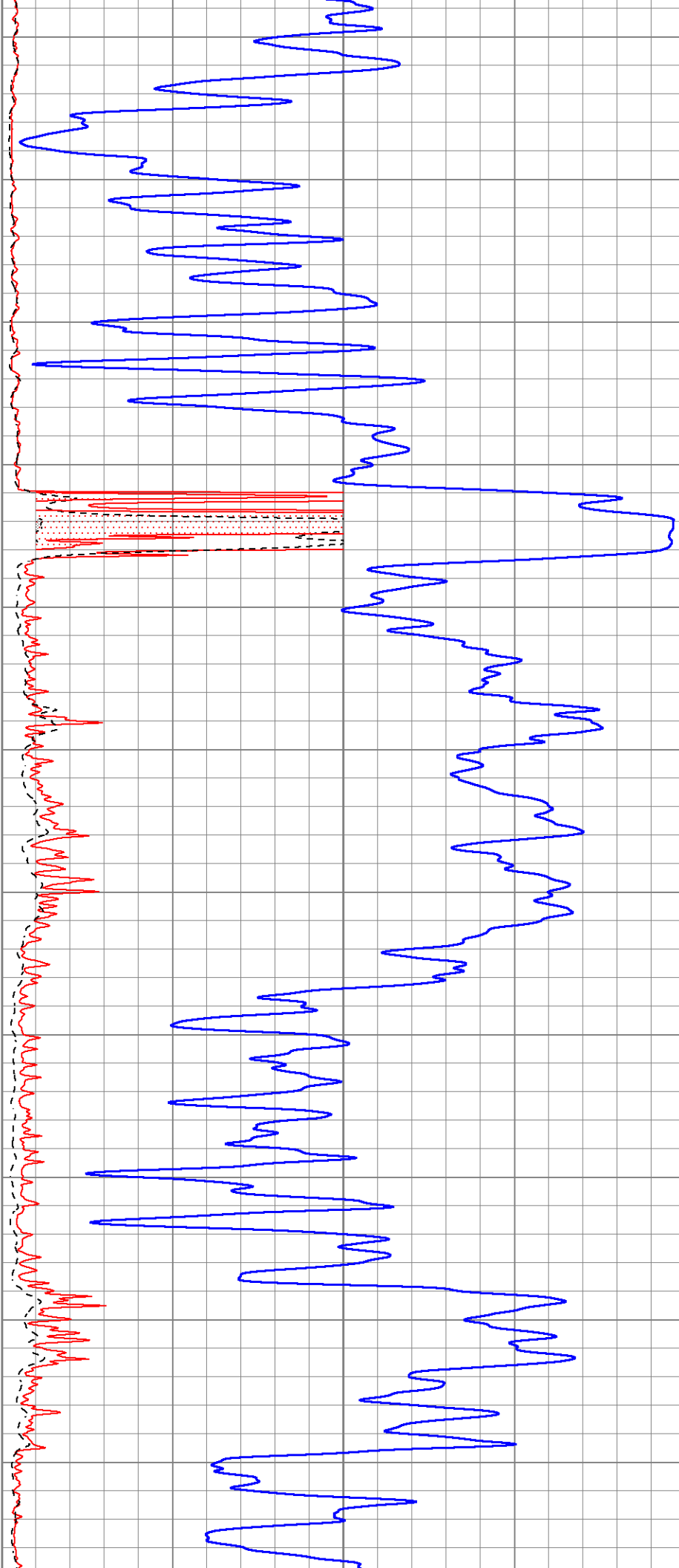


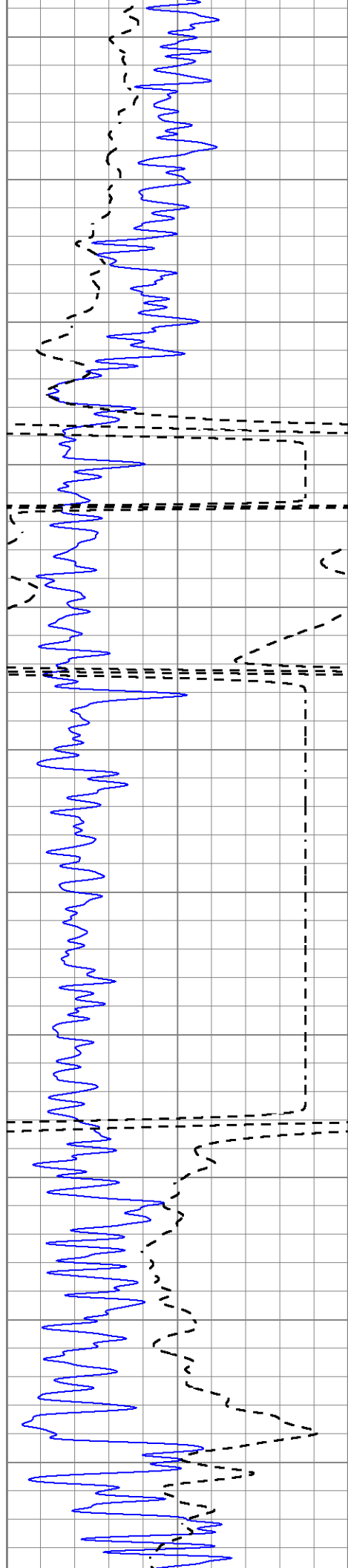
## MAIN SECTION

|       |                  |     |      |                  |     |
|-------|------------------|-----|------|------------------|-----|
| 0     | Gamma Ray (GAPI) | 150 | 1000 | CILD (mmho/m)    | 0   |
| -100  | SP (mV)          | 100 | 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

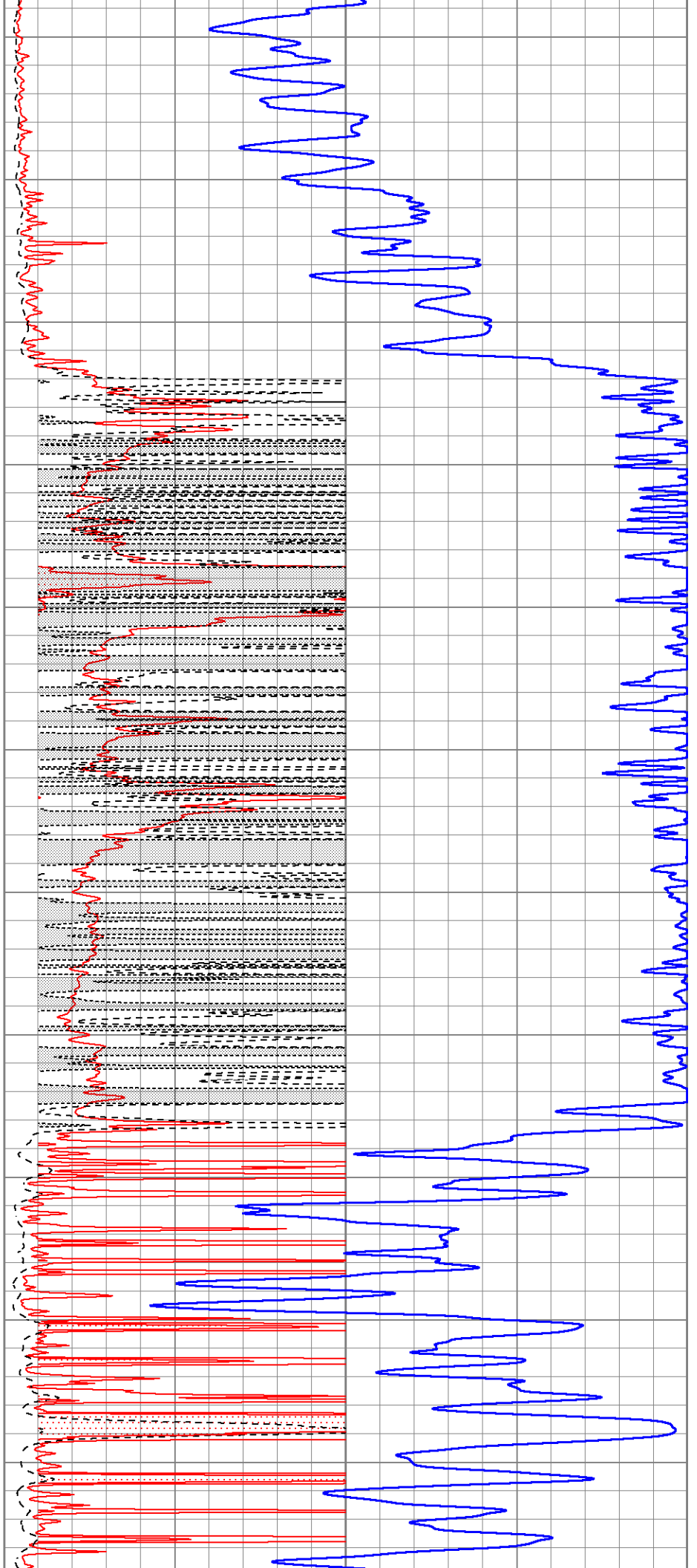
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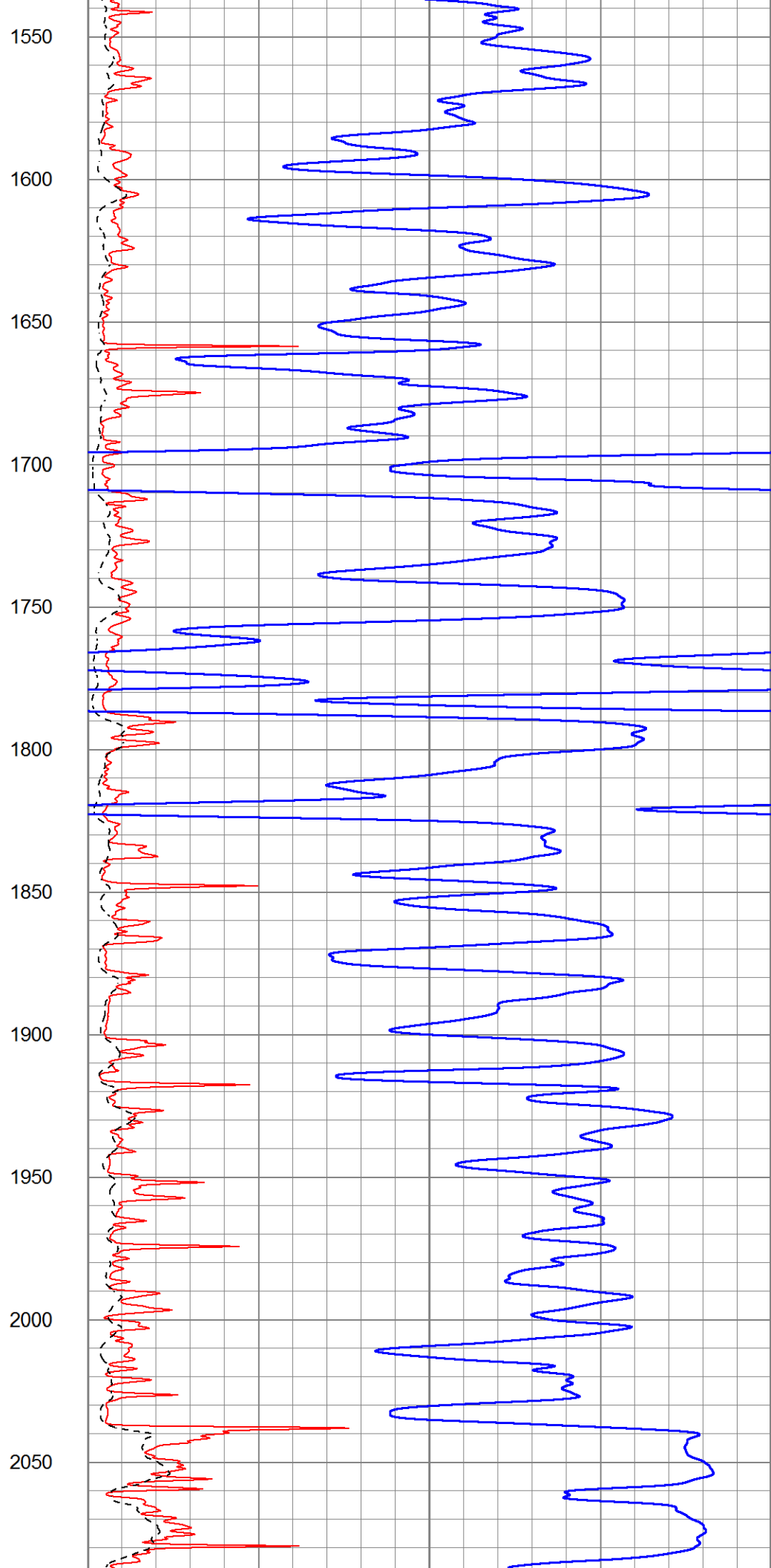
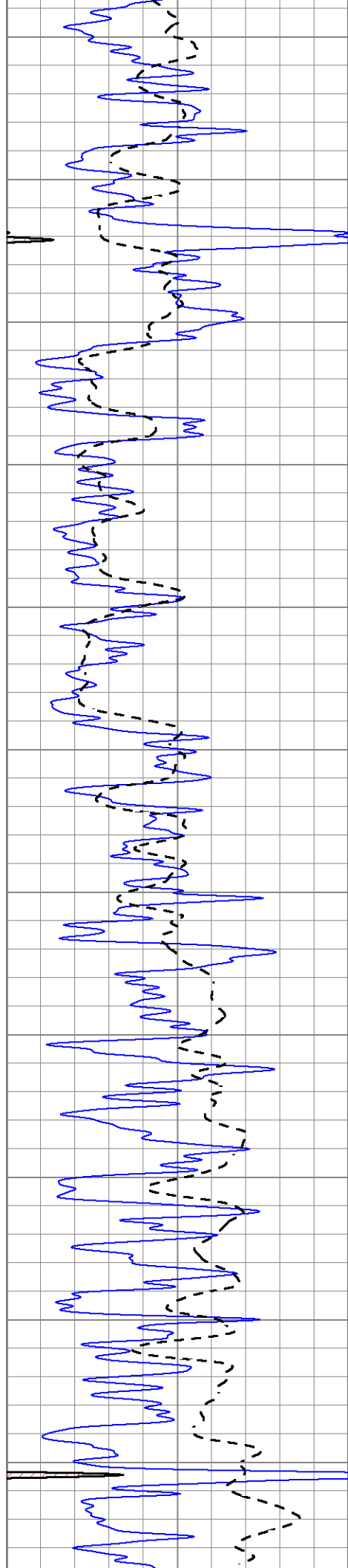
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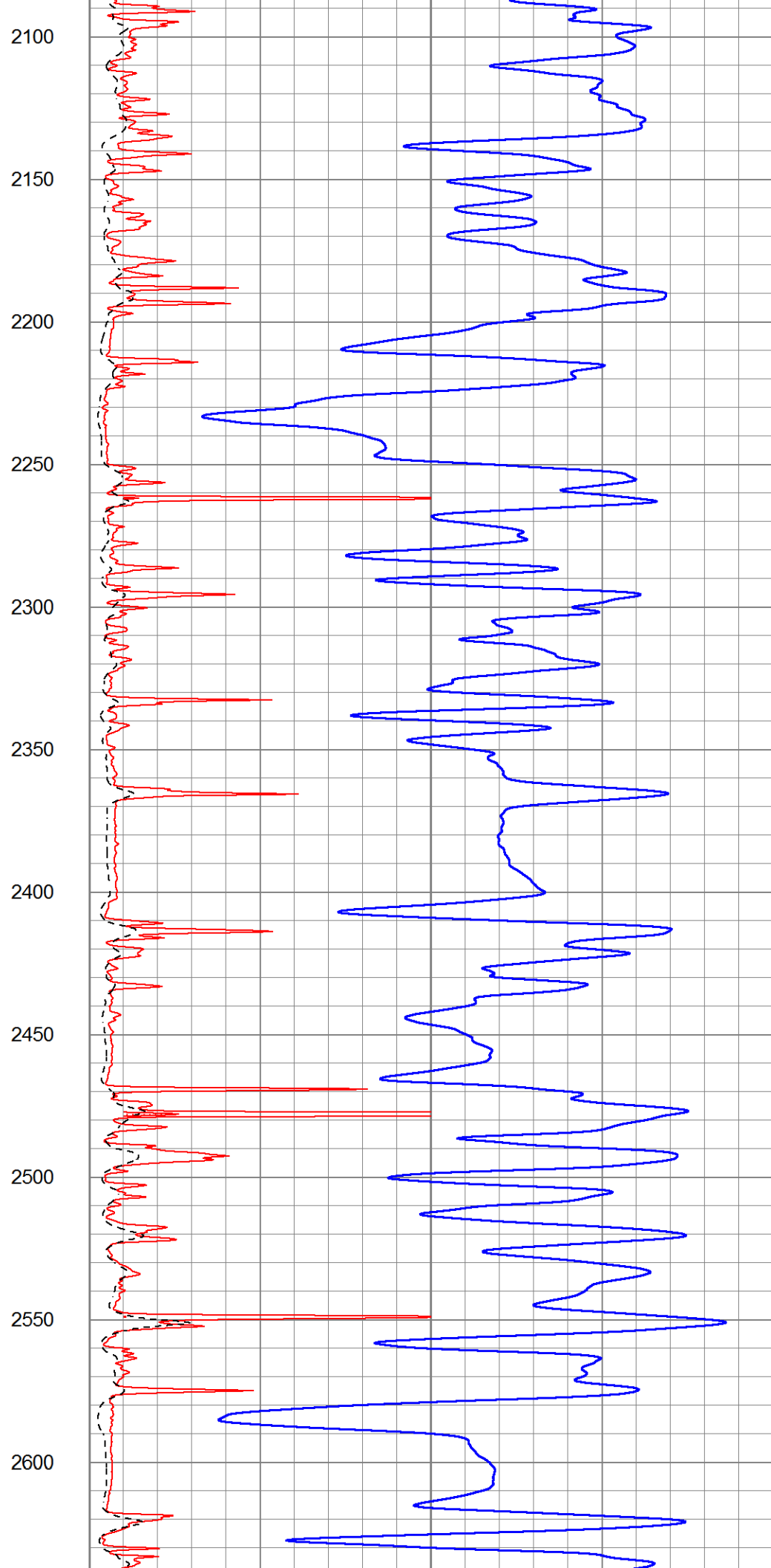
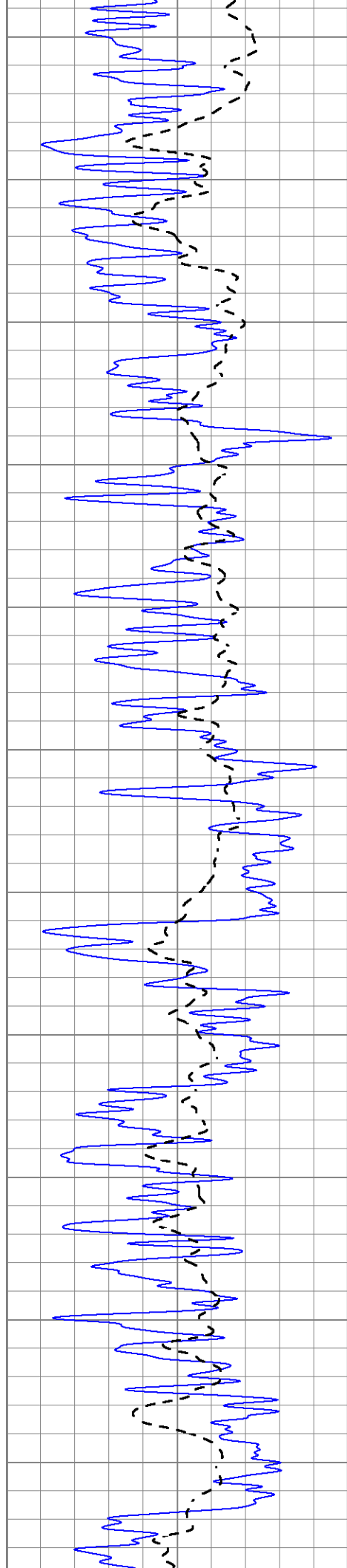
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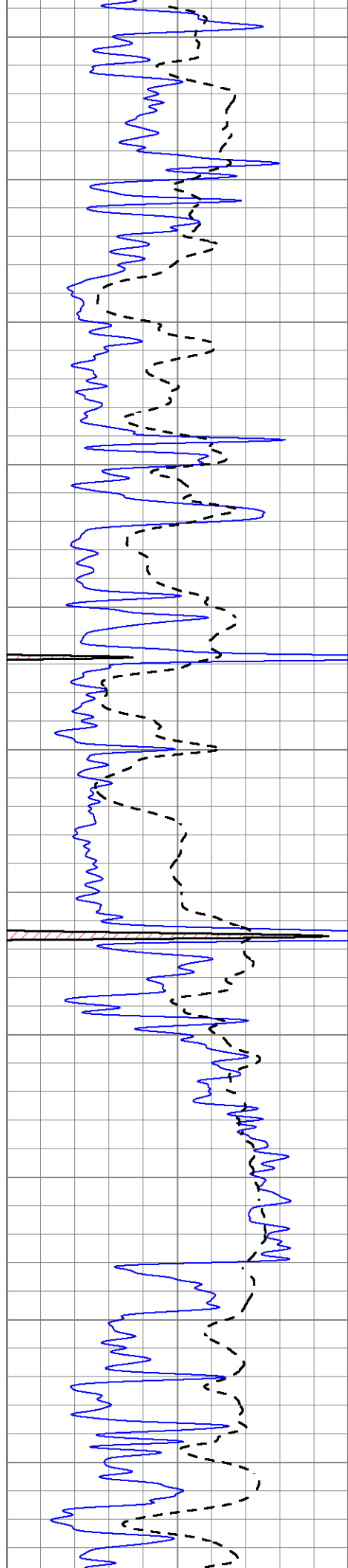
1450

1500









2650

2700

2750

2800

2850

2900

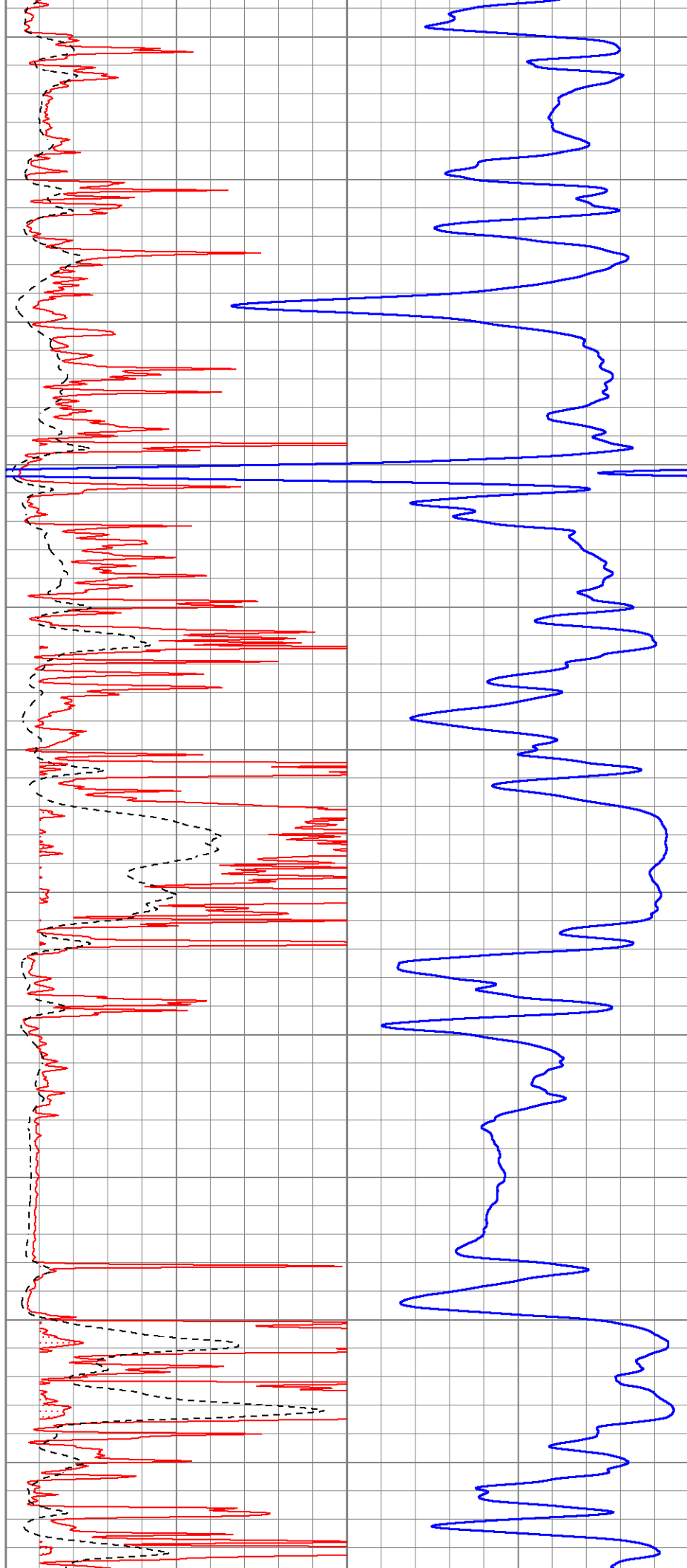
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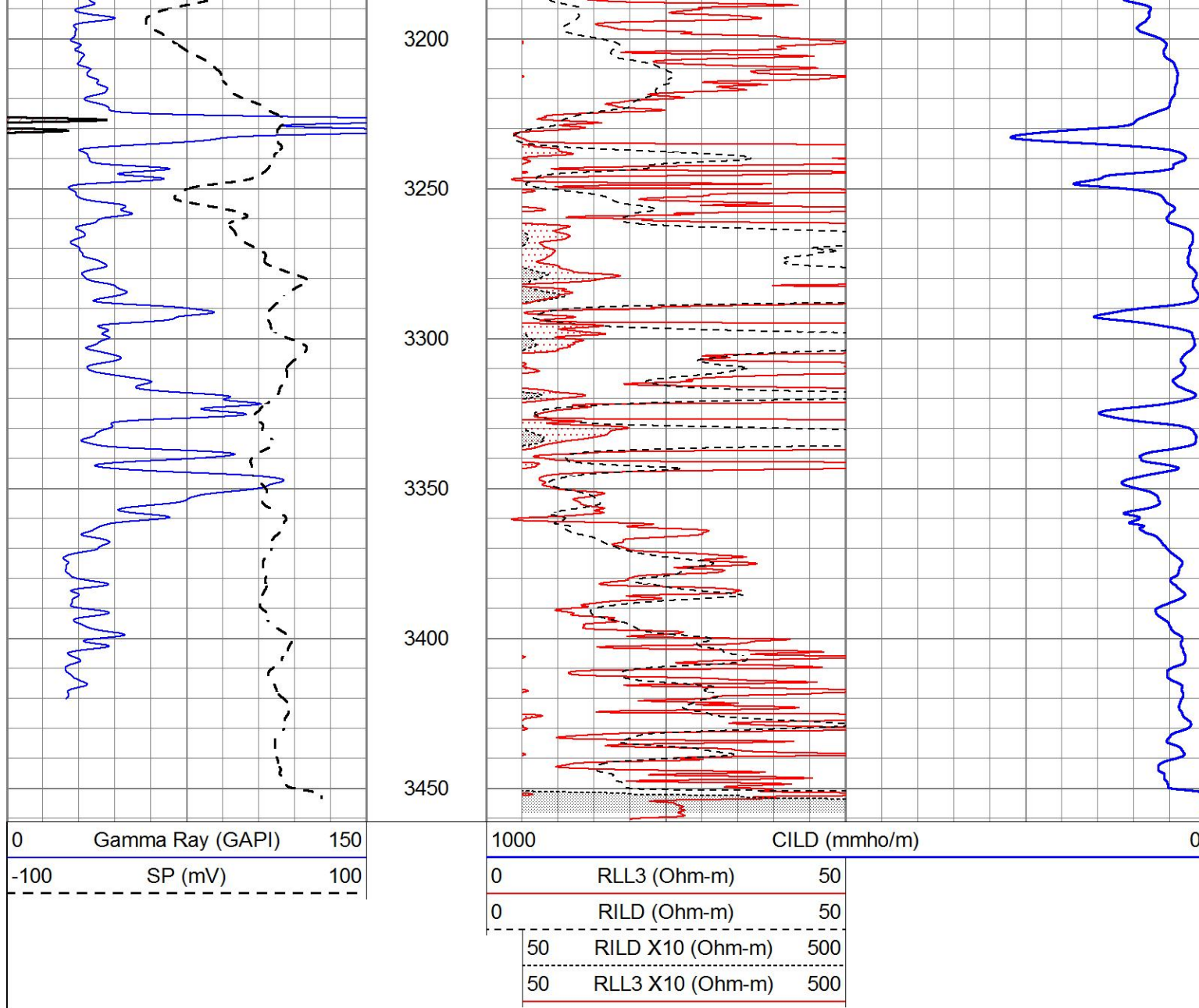
3000

3050

3100

3150



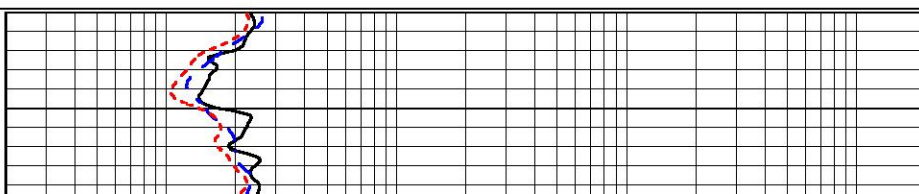
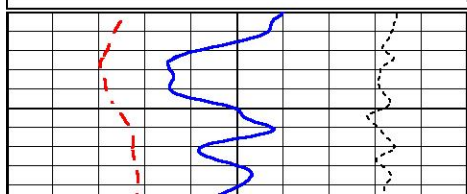


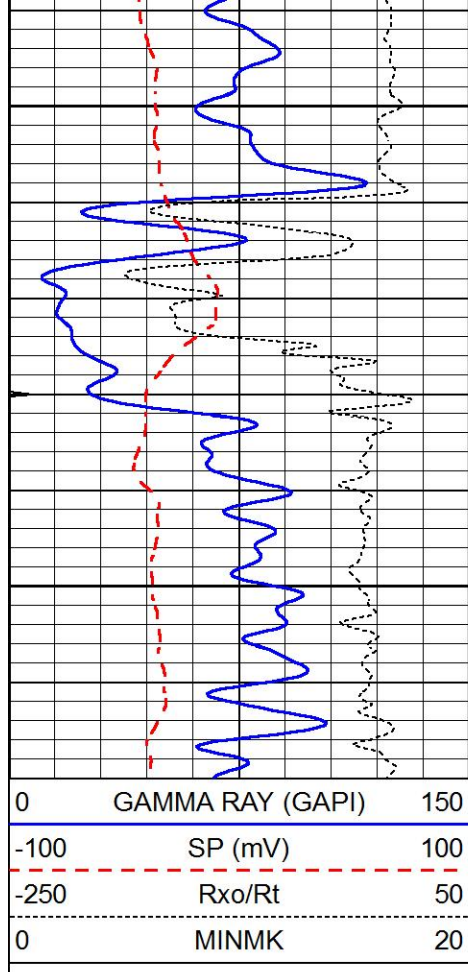
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Database File 6554ddn.db  
Dataset Pathname pass3.1A  
Presentation Format \_dil  
Dataset Creation Tue May 24 05:23:14 2022  
Charted by Depth in Feet scaled 1:240

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

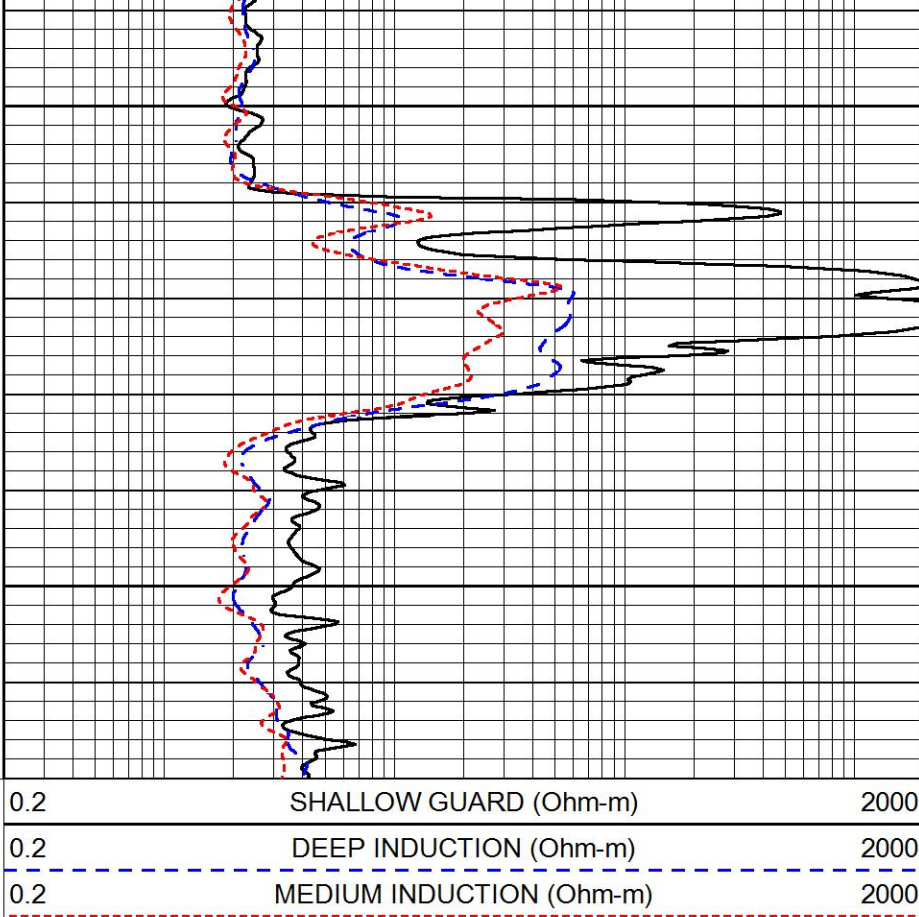
|     |                          |      |
|-----|--------------------------|------|
| 0.2 | SHALLOW GUARD (Ohm-m)    | 2000 |
| 0.2 | DEEP INDUCTION (Ohm-m)   | 2000 |
| 0.2 | MEDIUM INDUCTION (Ohm-m) | 2000 |





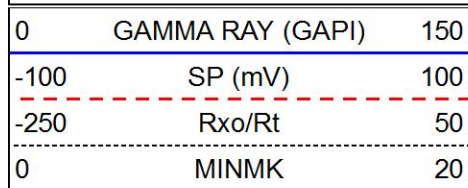
600

650



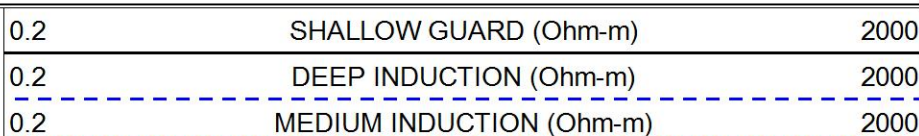
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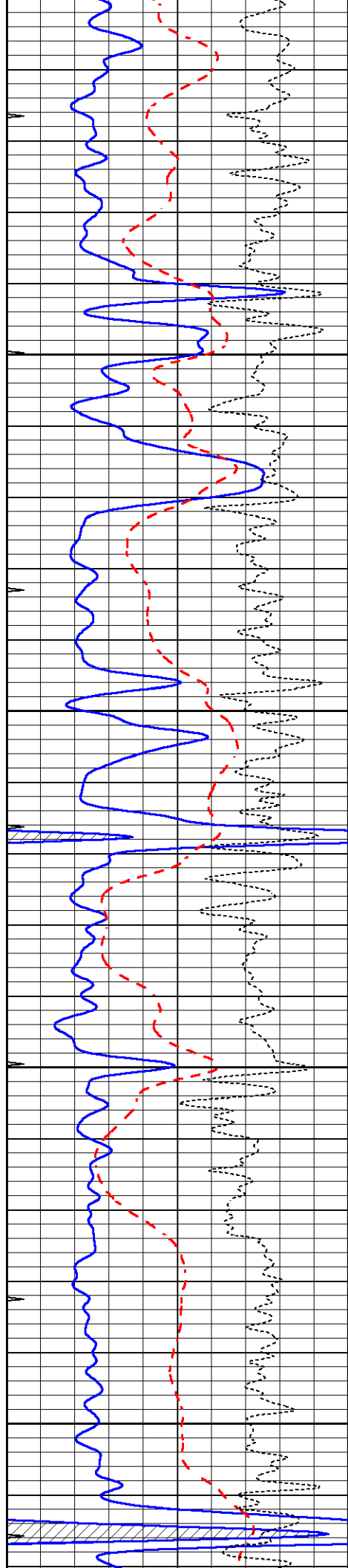
Database File 6554ddn.db  
 Dataset Pathname pass3.1M  
 Presentation Format \_dil  
 Dataset Creation Tue May 24 05:17:10 2022  
 Charted by Depth in Feet scaled 1:240



2700

2750





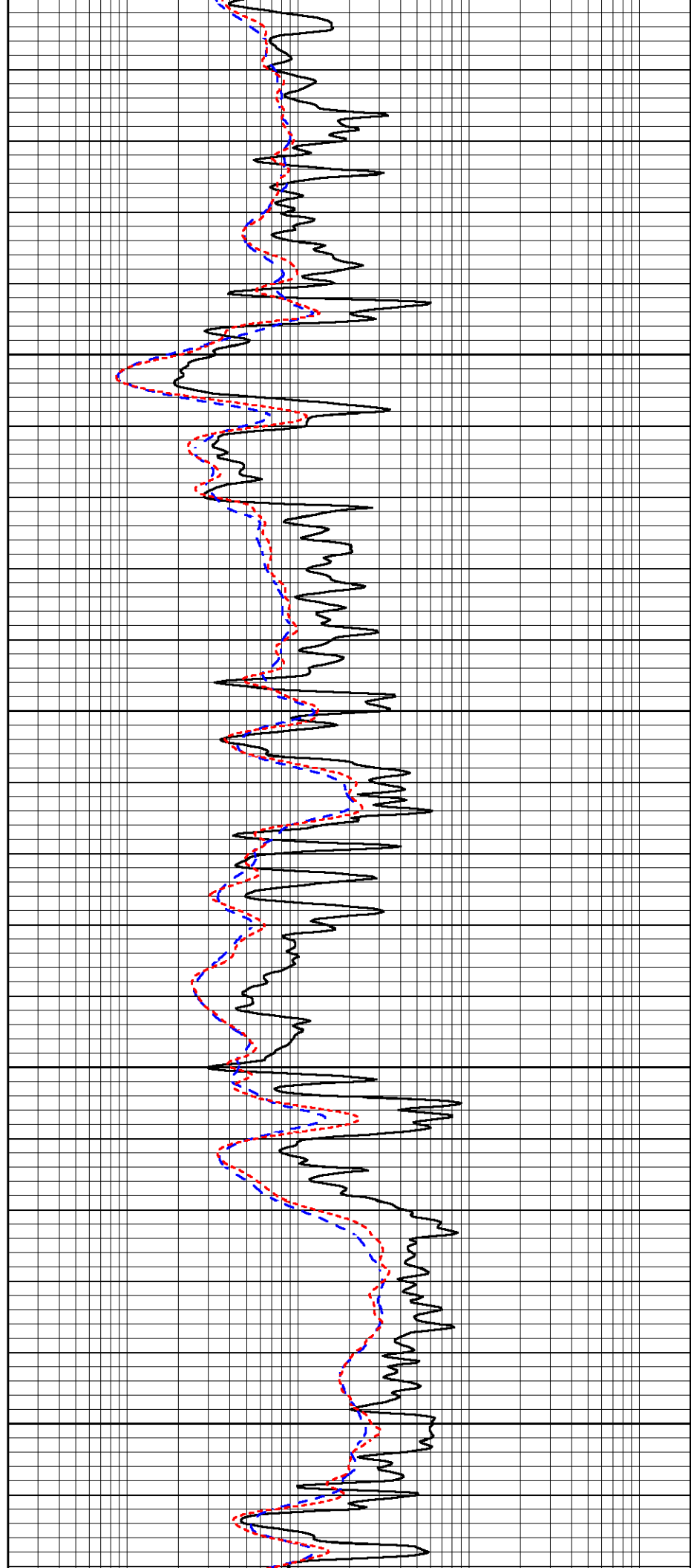
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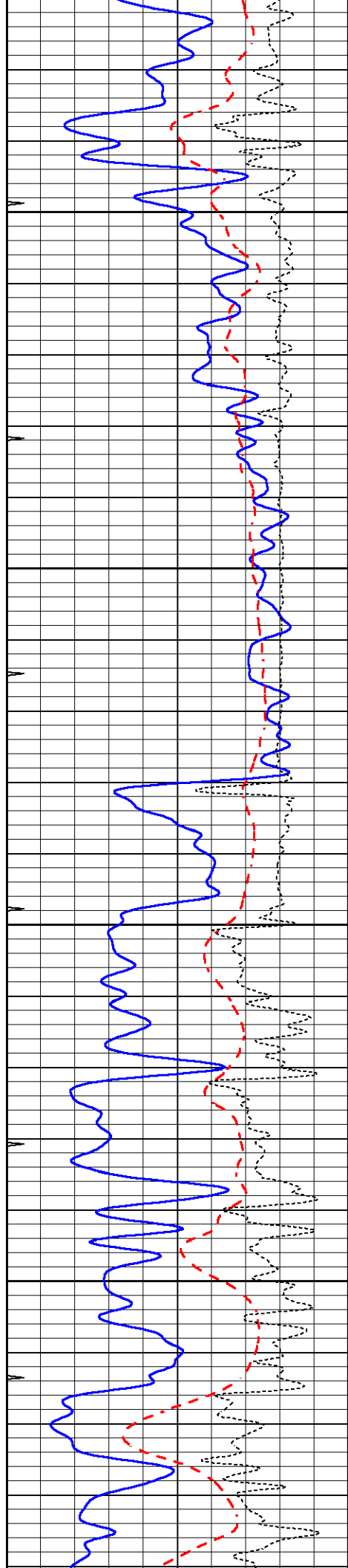
2800

2850

2900

2950



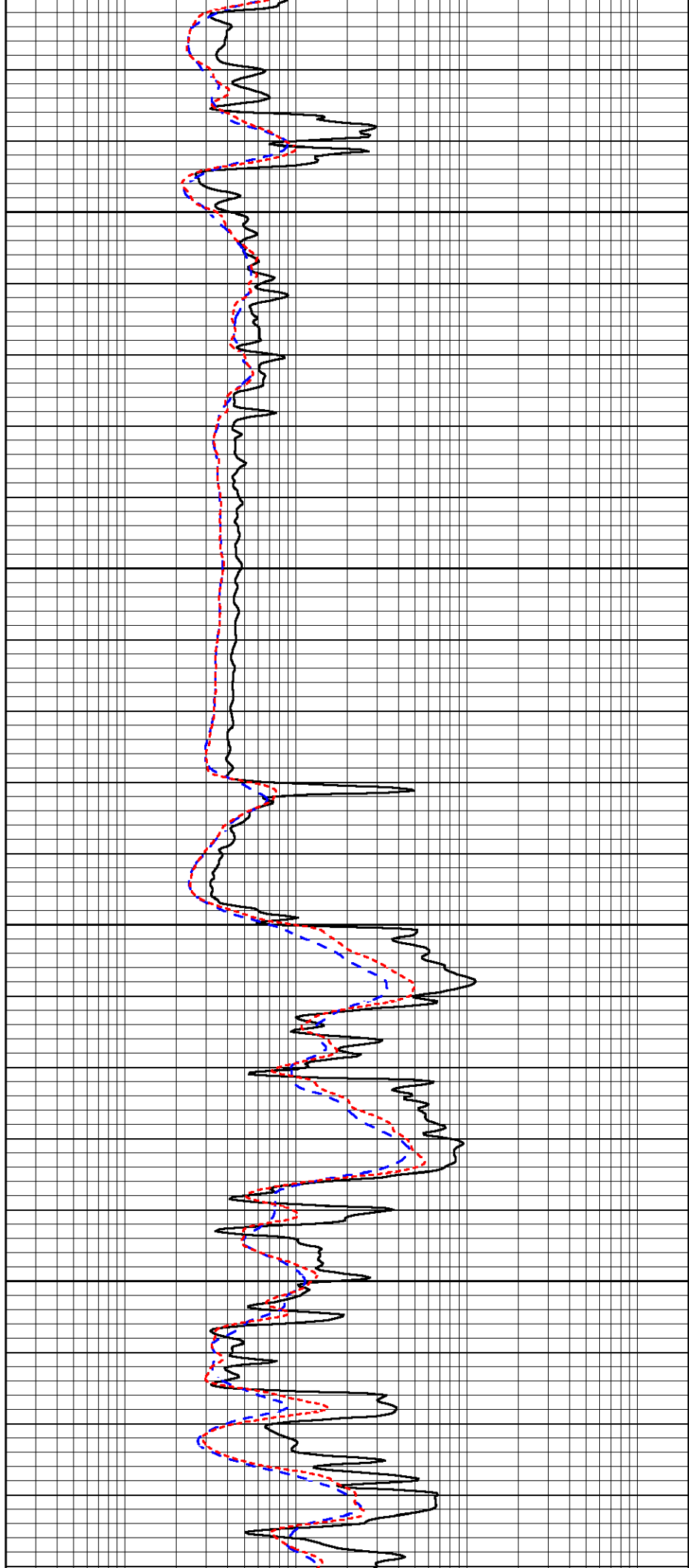


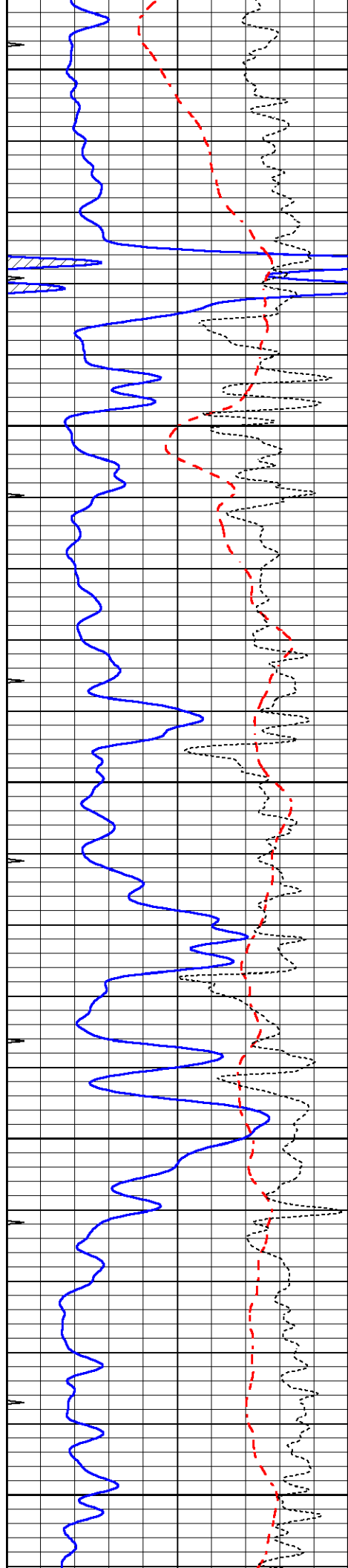
3000

3050

3100

3150





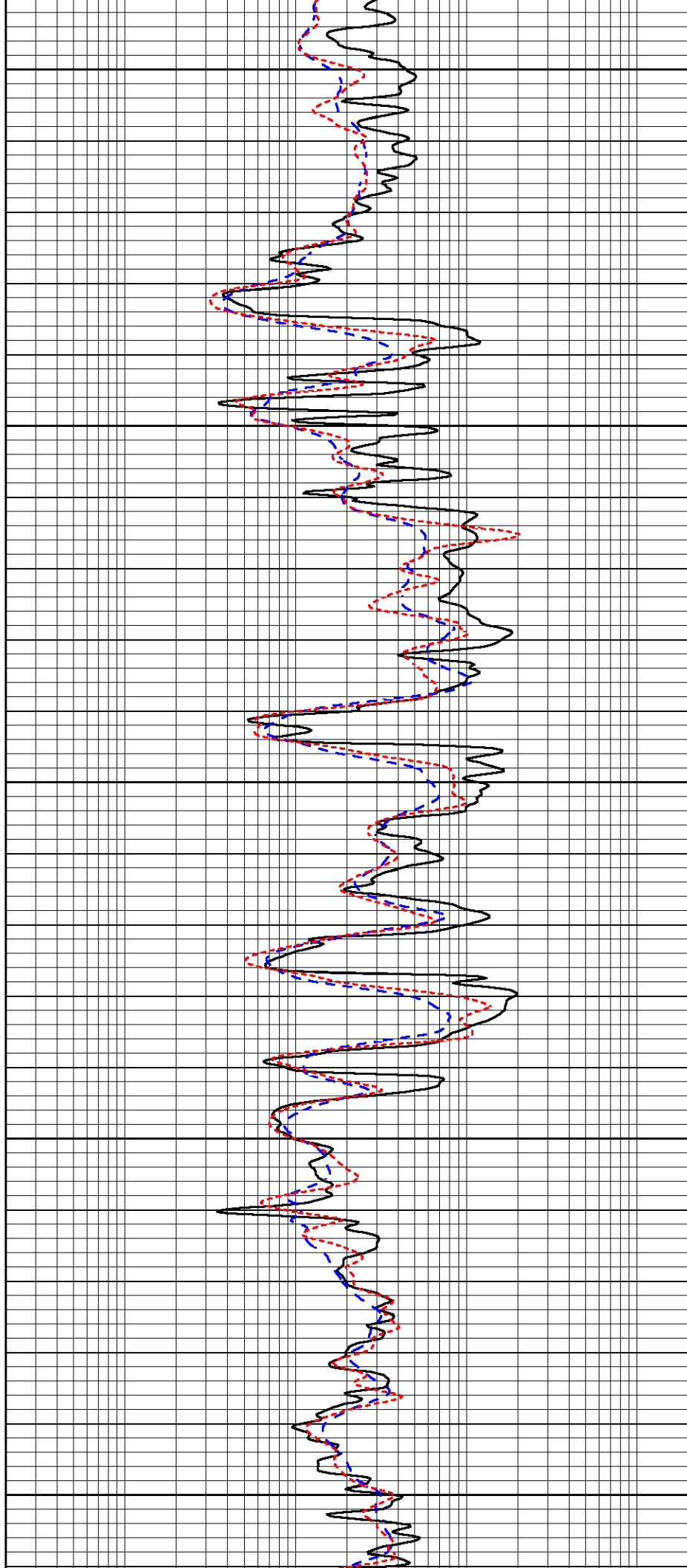
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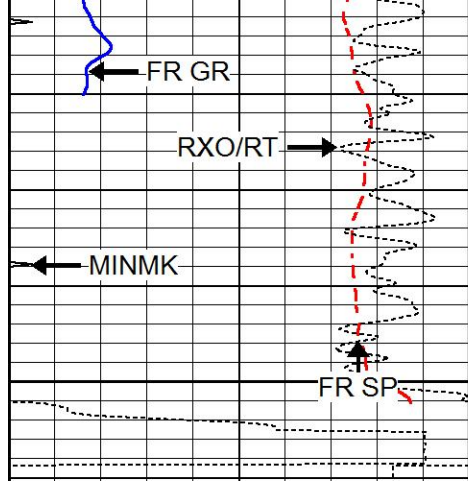
3250

3300

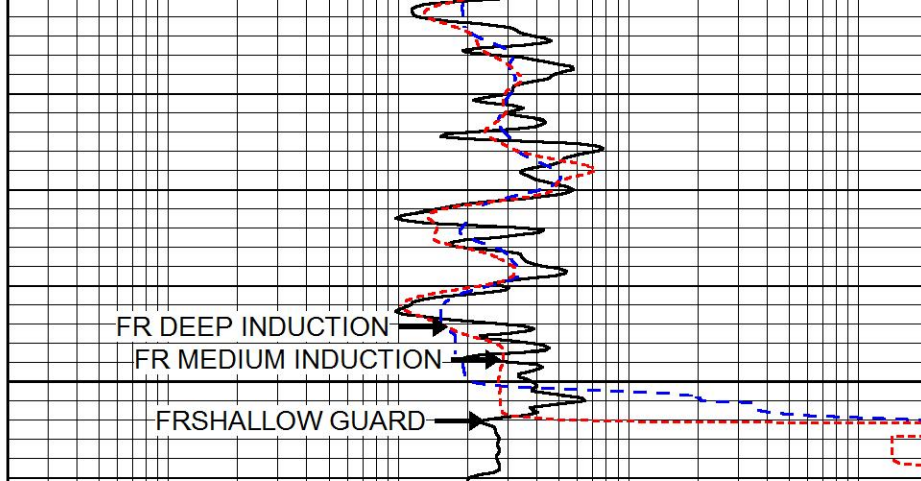
3350

3400





|      |                  |     |
|------|------------------|-----|
| 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 |

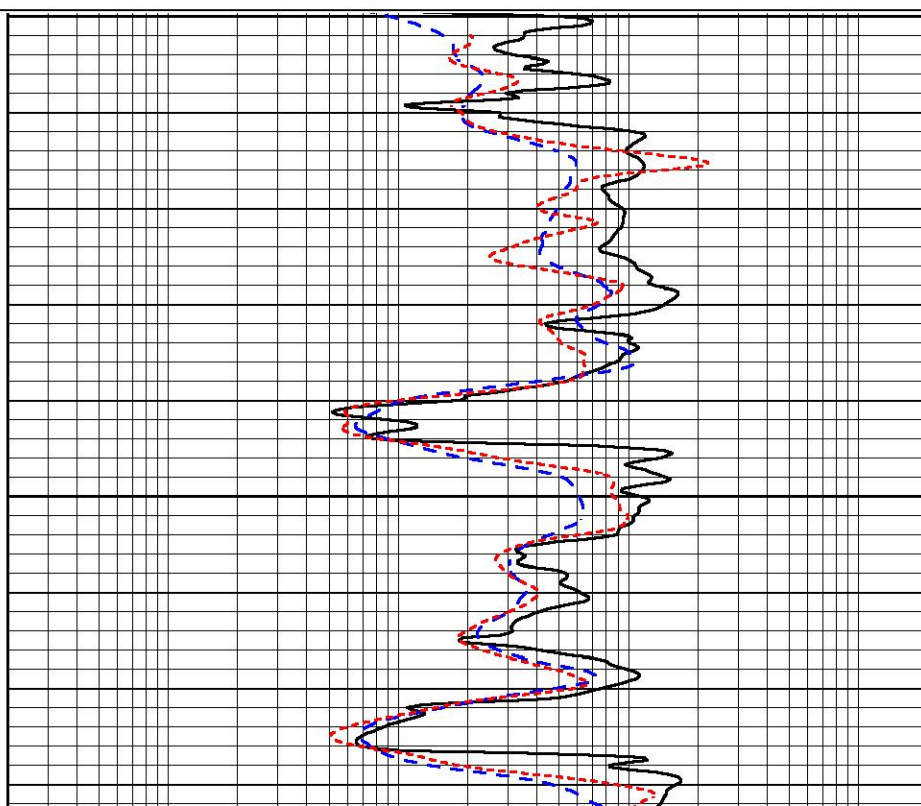
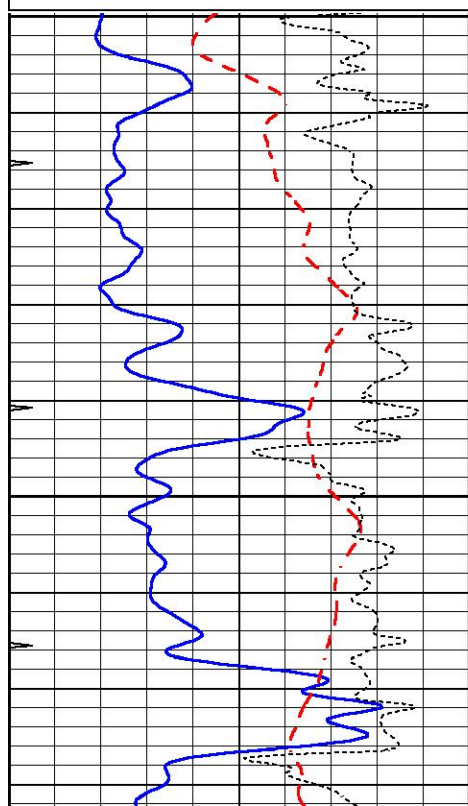


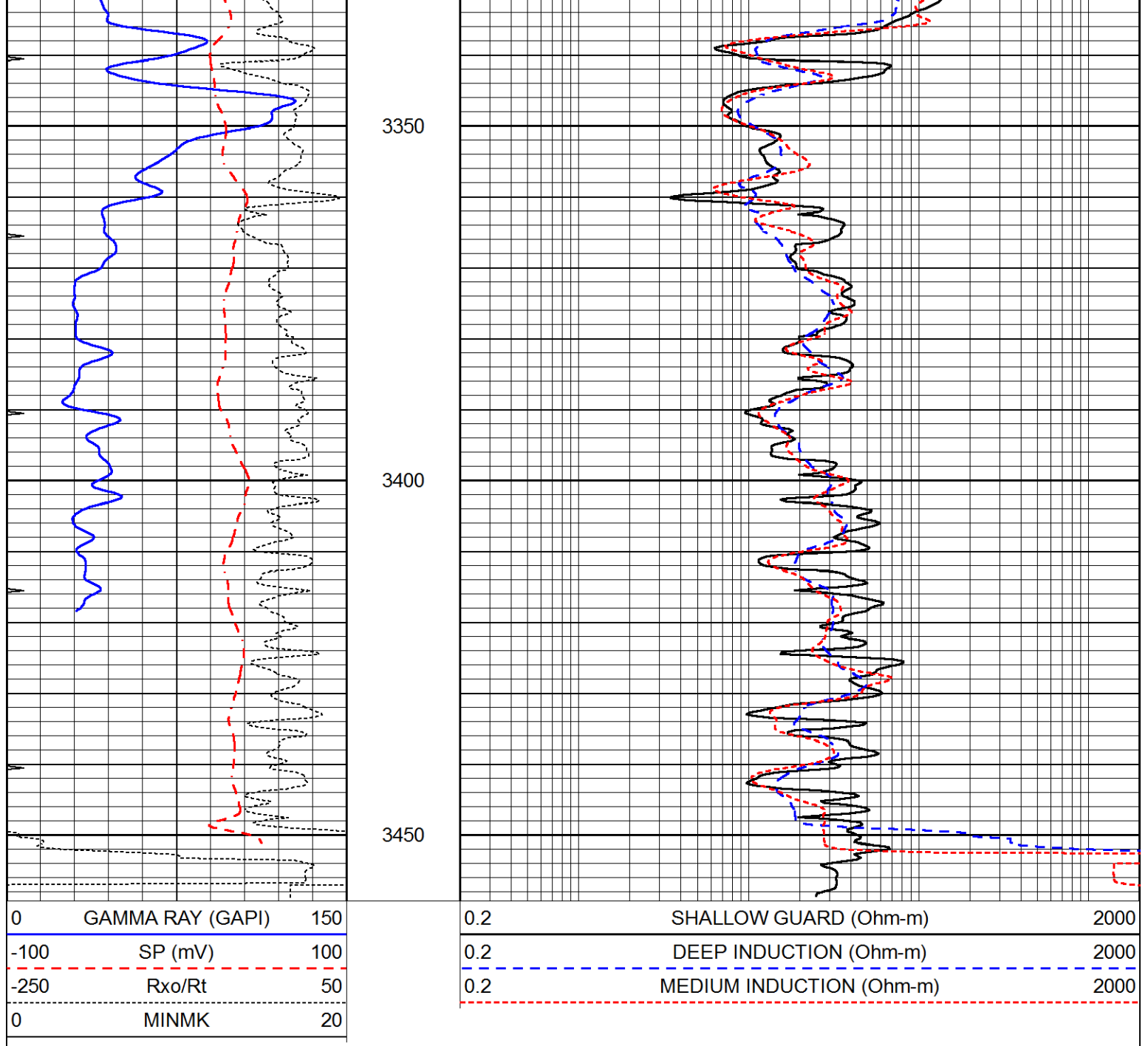
# REPEAT SECTION

Database File 6554ddn.db  
 Dataset Pathname pass2.1R  
 Presentation Format \_dil  
 Dataset Creation Tue May 24 04:43:20 2022  
 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                     |       | 6554ddn.db                           |   |       |                          |        |         |         |  |
| Dataset Pathname                  |       | pass3.1M                             |   |       |                          |        |         |         |  |
| Dataset Creation                  |       | Tue May 24 05:17:10 2022             |   |       |                          |        |         |         |  |
| Dual Induction Calibration Report |       |                                      |   |       |                          |        |         |         |  |
|                                   |       | Serial-Model:                        |   |       | PROBE8-DILG              |        |         |         |  |
|                                   |       | Surface Cal Performed:               |   |       | Sat May 21 18:54:58 2022 |        |         |         |  |
|                                   |       | Downhole Cal Performed:              |   |       | Mon Sep 10 14:28:38 2018 |        |         |         |  |
|                                   |       | After Survey Verification Performed: |   |       | Mon Sep 10 14:28:40 2018 |        |         |         |  |
| Surface Calibration               |       |                                      |   |       |                          |        |         |         |  |
|                                   |       | Readings                             |   |       | References               |        |         | Results |  |
| Loop:                             | Air   | Loop                                 |   | Air   | Loop                     |        | m       | b       |  |
| Deep                              | 0.015 | 0.648                                | V | 0.000 | 400.000                  | mmho/m | 600.000 | 2.000   |  |
| Medium                            | 0.029 | 0.796                                | V | 0.000 | 464.000                  | mmho/m | 590.000 | -10.000 |  |
| Intermediate                      | 0.020 | 0.640                                | V | 0.000 | 400.000                  | mmho/m | 600.000 | 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: 001N      Model: PRB     |            |             |                                    |                     |             |        |         |         |
| Master Calibration               |            |             | Performed Thu Mar 19 11:30:16 2020 |                     |             |        |         |         |
|                                  | Background | Magnesium   |                                    | Aluminum            | Aluminum+Fe |        |         |         |
| Window 1                         | 1572.2     | 7510.8      |                                    | 2837.3              | 2643.1      |        |         | cps     |
| Window 2                         | 1446.2     | 6523.9      |                                    | 2552.8              | 2409.9      |        |         | cps     |
| Window 3                         | 1060.9     | 3611.4      |                                    | 1731.5              | 1684.8      |        |         | cps     |
| Window 4                         | 145.5      | 363.4       |                                    | 363.2               | 368.1       |        |         | cps     |
| Long Space                       | 0.0        | 5077.7      |                                    | 1106.6              | 963.7       |        |         | cps     |
| Short Space                      | 3.1        | 1709.3      |                                    | 1103.4              | 916.9       |        |         | cps     |
| Rho                              |            | 1.7100      |                                    | 2.5900              | 0.0000      |        |         | g/cc    |
| Pe                               |            | 2.0000      |                                    | 2.7500              | 5.7900      |        |         |         |
| Rib Angle                        | : 44.0     | Rib Slope   | : 0.965                            | Density/Spine Ratio |             |        | : 0.555 |         |
| Spine Angle                      | : 74.0     | Spine Slope | : 3.481                            | Spine Intercept     |             |        | : -17.4 |         |
| 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:                         |             | 6I                       |          |          |               |
| Tool Model:                            |             | G                        |          |          |               |
| CALIBRATION                            |             |                          |          |          |               |
| Detector                               |             | Readings                 |          | Target   | Normalization |
| Short Space                            |             | 1.00                     | cps      | 1.00     | cps           |
| Long Space                             |             | 1.00                     | cps      | 1.00     | cps           |
| PRE-SURVEY VERIFICATION                |             |                          |          |          |               |
| Detector                               |             | Readings                 |          | Measured | Target        |
| 1)                                     | Short Space |                          | cps      |          |               |
|                                        | Long Space  |                          | cps      | pu       | pu            |
| 2)                                     | Short Space |                          | cps      |          |               |
|                                        | Long Space  |                          | cps      | pu       |               |
| 3)                                     | Short Space |                          | cps      |          |               |
|                                        | Long Space  |                          | cps      | pu       |               |
| POST-SURVEY VERIFICATION               |             |                          |          |          |               |
| Detector                               |             | Readings                 |          | Measured | Target        |
| 1)                                     | Short Space |                          | cps      |          |               |
|                                        | Long Space  |                          | cps      | pu       | pu            |
| 2)                                     | Short Space |                          | cps      |          |               |
|                                        | Long Space  |                          | cps      | pu       | pu            |
| 3)                                     | Short Space |                          | cps      |          |               |
|                                        | Long Space  |                          | cps      | pu       | pu            |
| Gamma Ray Calibration Report           |             |                          |          |          |               |
| Serial Number:                         |             | GR6                      |          |          |               |
| Tool Model:                            |             | OPEN                     |          |          |               |
| Performed:                             |             | Tue May 24 04:39:42 2022 |          |          |               |
| Calibrator Value:                      |             | 150.0                    | GAPI     |          |               |
| Background Reading:                    |             | 0.0                      | cps      |          |               |
| Calibrator Reading:                    |             | 276.0                    | cps      |          |               |
| Sensitivity:                           |             | 0.8500                   | GAPI/cps |          |               |