



# CEMENT BOND LOG

Company John O Farmer Inc.

Well Clack Unit #1

Field Morel

County Graham

State Kansas

Location: API # : 15 065 24218

245' FNL & 4290' FEL

SEC 16 TWP 9S RGE 21W

Permanent Datum Ground Level Elevation 2227'  
Log Measured From KB 8' AGL  
Drilling Measured From KB

Elevation  
K.B. 2235'  
D.F. 2234'  
G.L. 2227'

Company John O Farmer Inc.  
Well Clack Unit #1  
Field Morel  
County Graham  
State Kansas

Date

6/27/22

Run Number

One

Depth Driller

3810'

Depth Logger

3779'

Bottom Logged Interval

3777'

Top Log Interval

2400'

Open Hole Size

7 7/8"

Type Fluid

Water

Density / Viscosity

////

Max. Recorded Temp.

////

Estimated Cement Top

2600'

Time Well Ready

R.O.A

Time Logger on Bottom

11:00 a.m

Equipment Number

T-118

Location

Hays, KS

Recorded By

D. Leiker

Witnessed By

Mr. Duane Eichman

Borehole Record

Bit

From

To

Size

Weight

From

To

Casing Record

Size

8 5/8"

Wgt/Ft

26#

Top

0'

Bottom

Surface String

5.5"

Prot. String

15.5#

Production String

0'

Liner

3809'

<<< Fold Here >>>

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

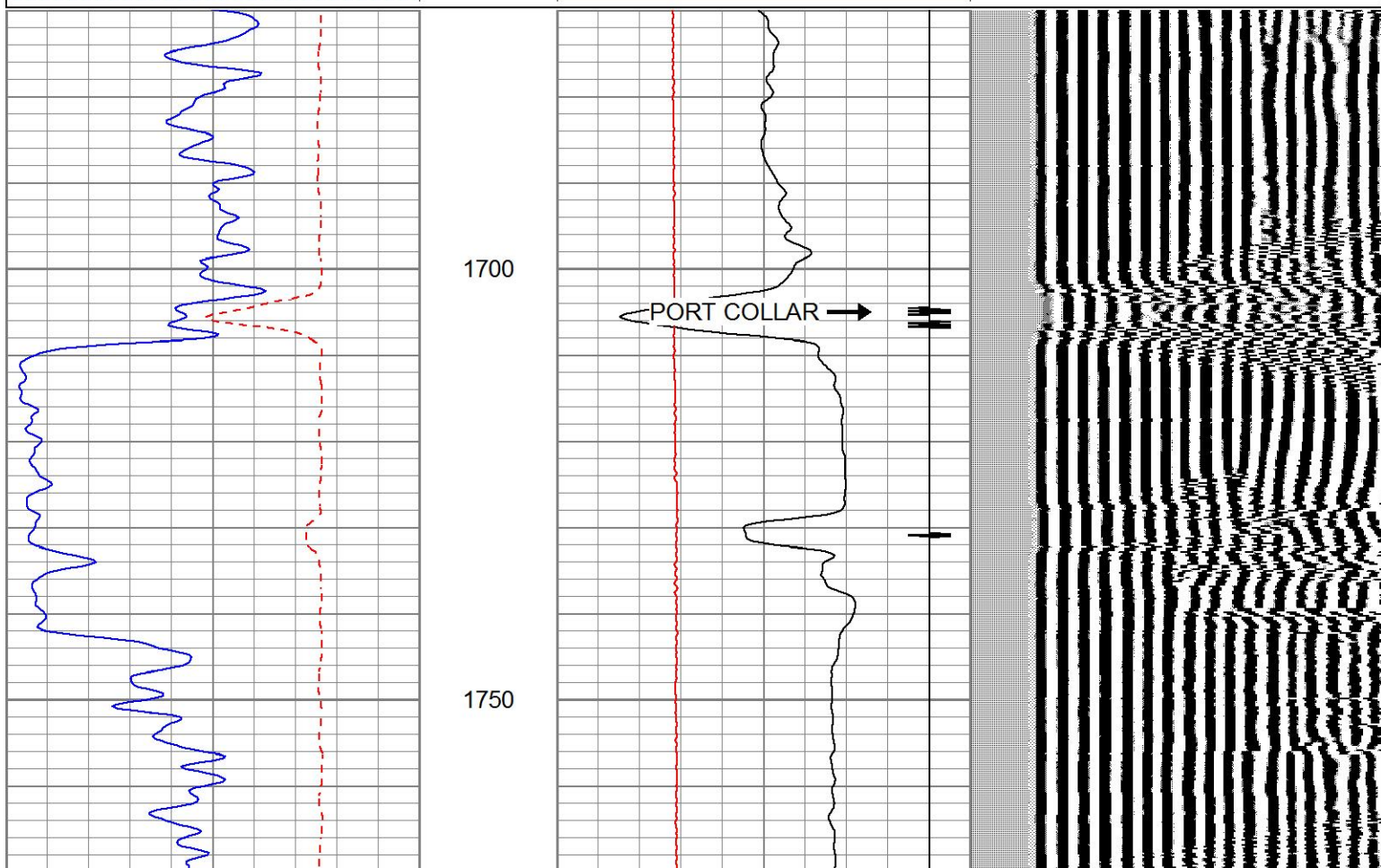
South of Palco,KS to Red Line Road(X Rd.), West 5 mi to 370th Rd,  
North on 370th3 mi to K Rd, West on K Rd 1.5 mi,  
South into Location  
Thanks for using Gemini Wireline LLC  
785-625-1182



# MAIN PASS

Database File jofclackunit1cbl.db  
 Dataset Pathname pass7  
 Presentation Format cblsec  
 Dataset Creation Tue Jul 12 12:57:28 2022  
 Charted by Depth in Feet scaled 1:240

|     |            |     |      |           |      |     |            |      |
|-----|------------|-----|------|-----------|------|-----|------------|------|
| 0   | GR (GAPI)  | 150 | 18   | CCL       | -2   | 200 | VDL (usec) | 1200 |
| 150 | GR (GAPI)  | 300 | 0    | AMP3 (mV) | 100  |     |            |      |
| 400 | TT3 (usec) | 200 | -200 | LTEN (lb) | 2200 |     |            |      |



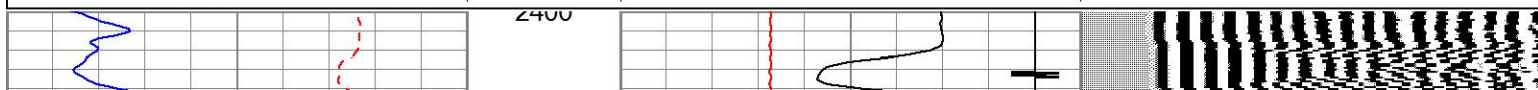
|     |            |     |      |           |      |     |            |      |
|-----|------------|-----|------|-----------|------|-----|------------|------|
| 0   | GR (GAPI)  | 150 | 18   | CCL       | -2   | 200 | VDL (usec) | 1200 |
| 150 | GR (GAPI)  | 300 | 0    | AMP3 (mV) | 100  |     |            |      |
| 400 | TT3 (usec) | 200 | -200 | LTEN (lb) | 2200 |     |            |      |

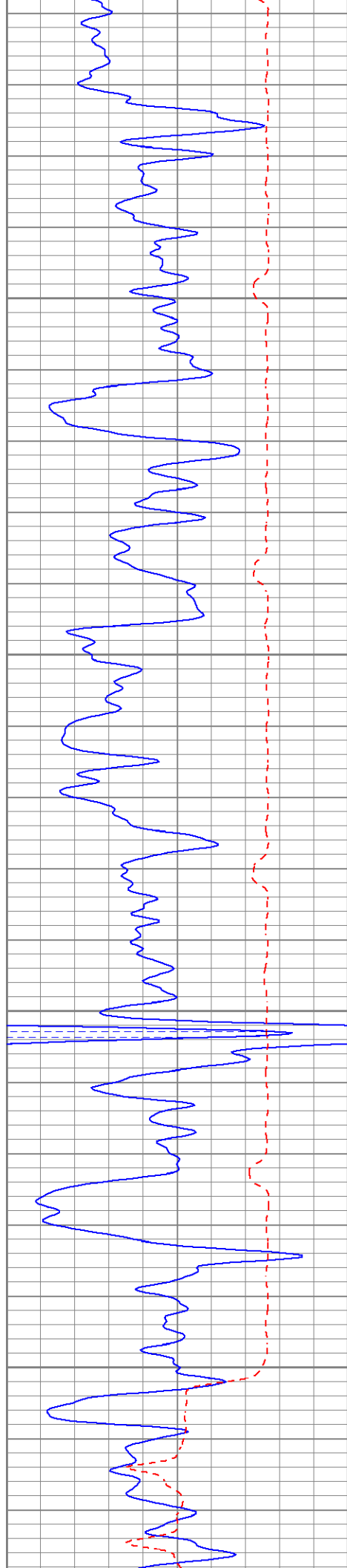


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|     |            |     |      |           |      |     |            |      |
|-----|------------|-----|------|-----------|------|-----|------------|------|
| 0   | GR (GAPI)  | 150 | 18   | CCL       | -2   | 200 | VDL (usec) | 1200 |
| 150 | GR (GAPI)  | 300 | 0    | AMP3 (mV) | 100  |     |            |      |
| 400 | TT3 (usec) | 200 | -200 | LTEN (lb) | 2200 |     |            |      |





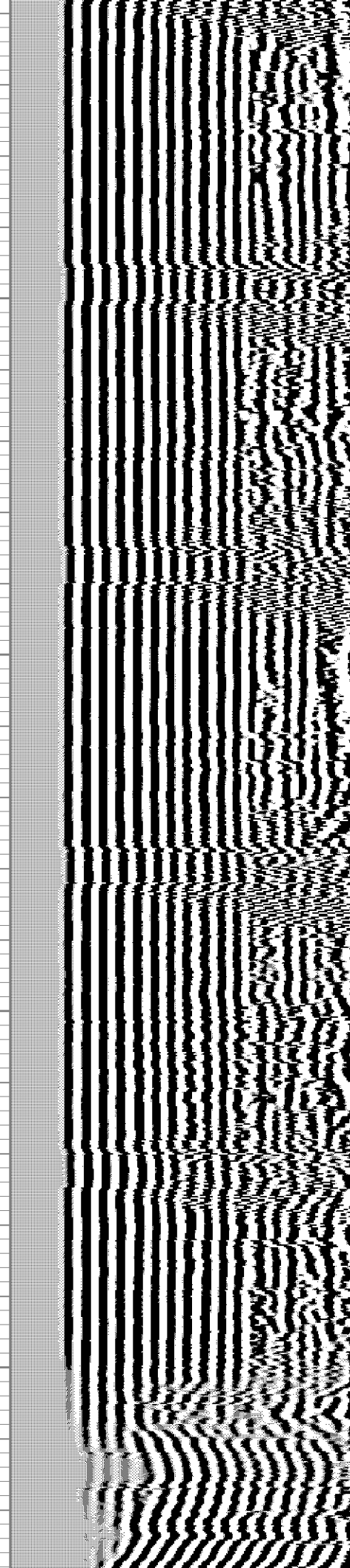
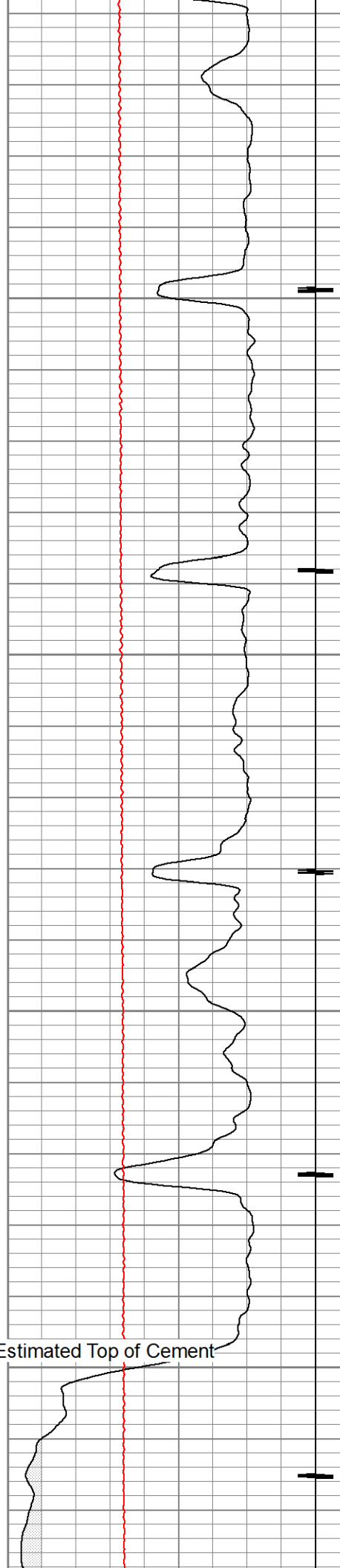
2450

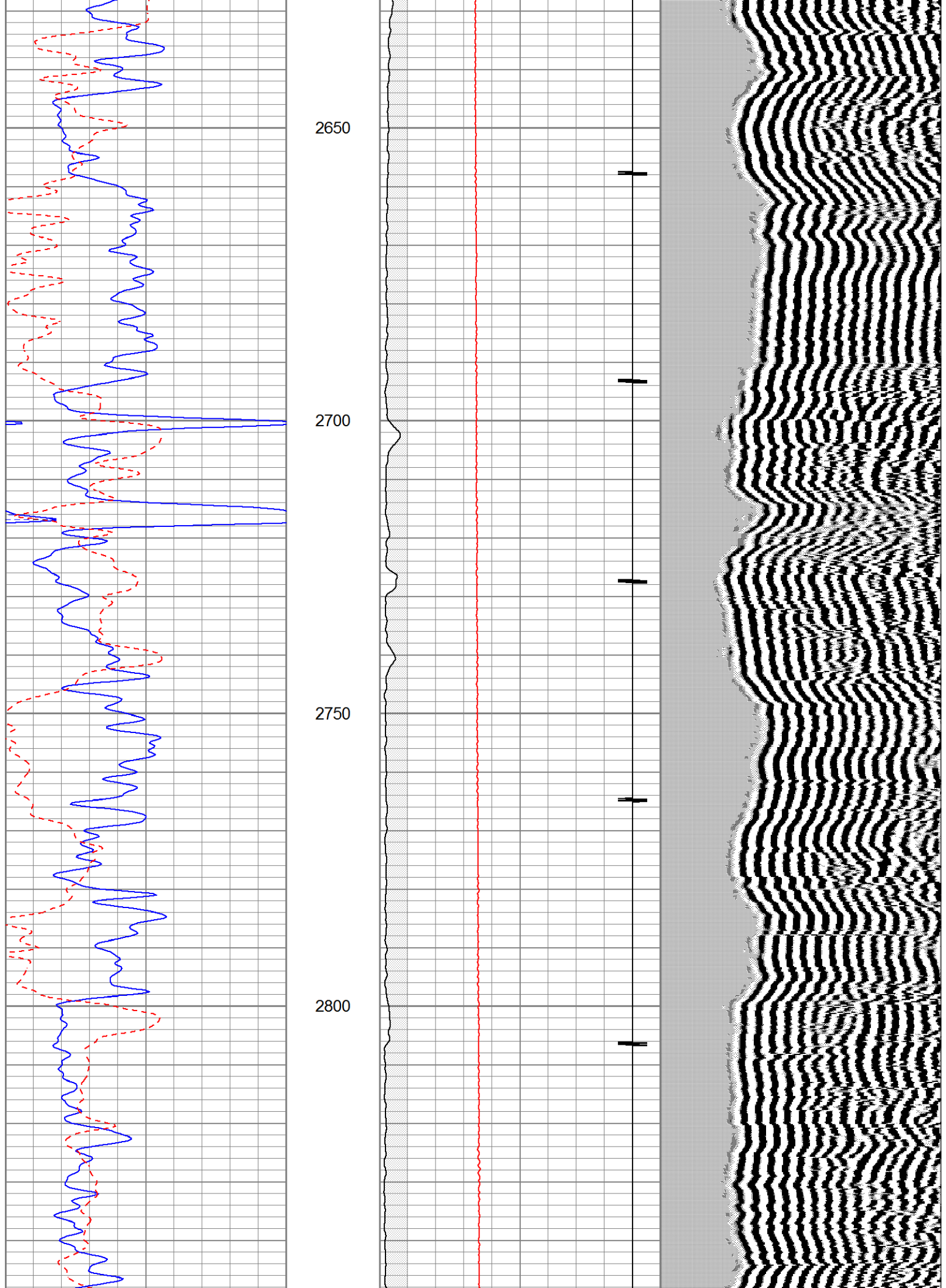
2500

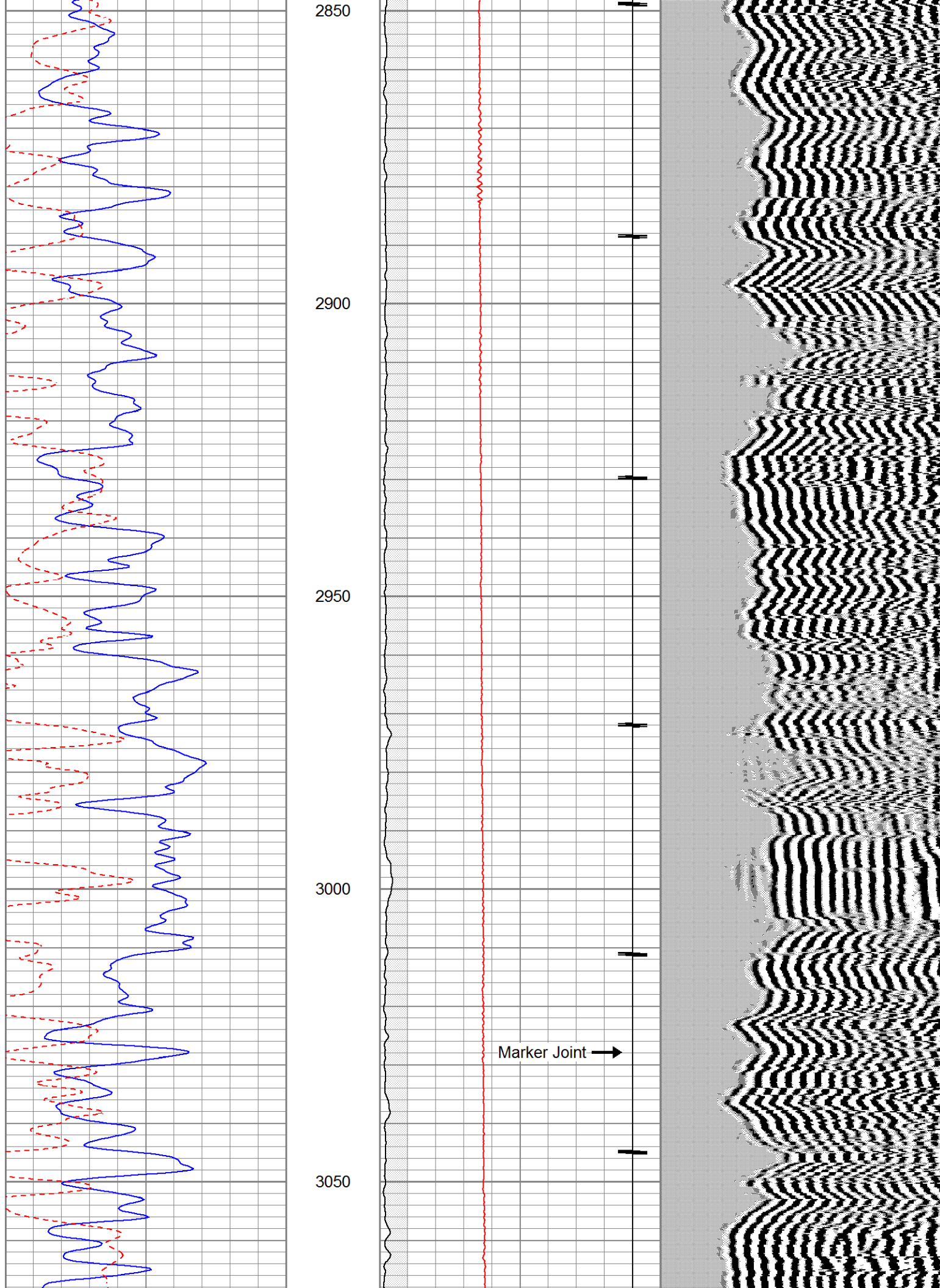
2550

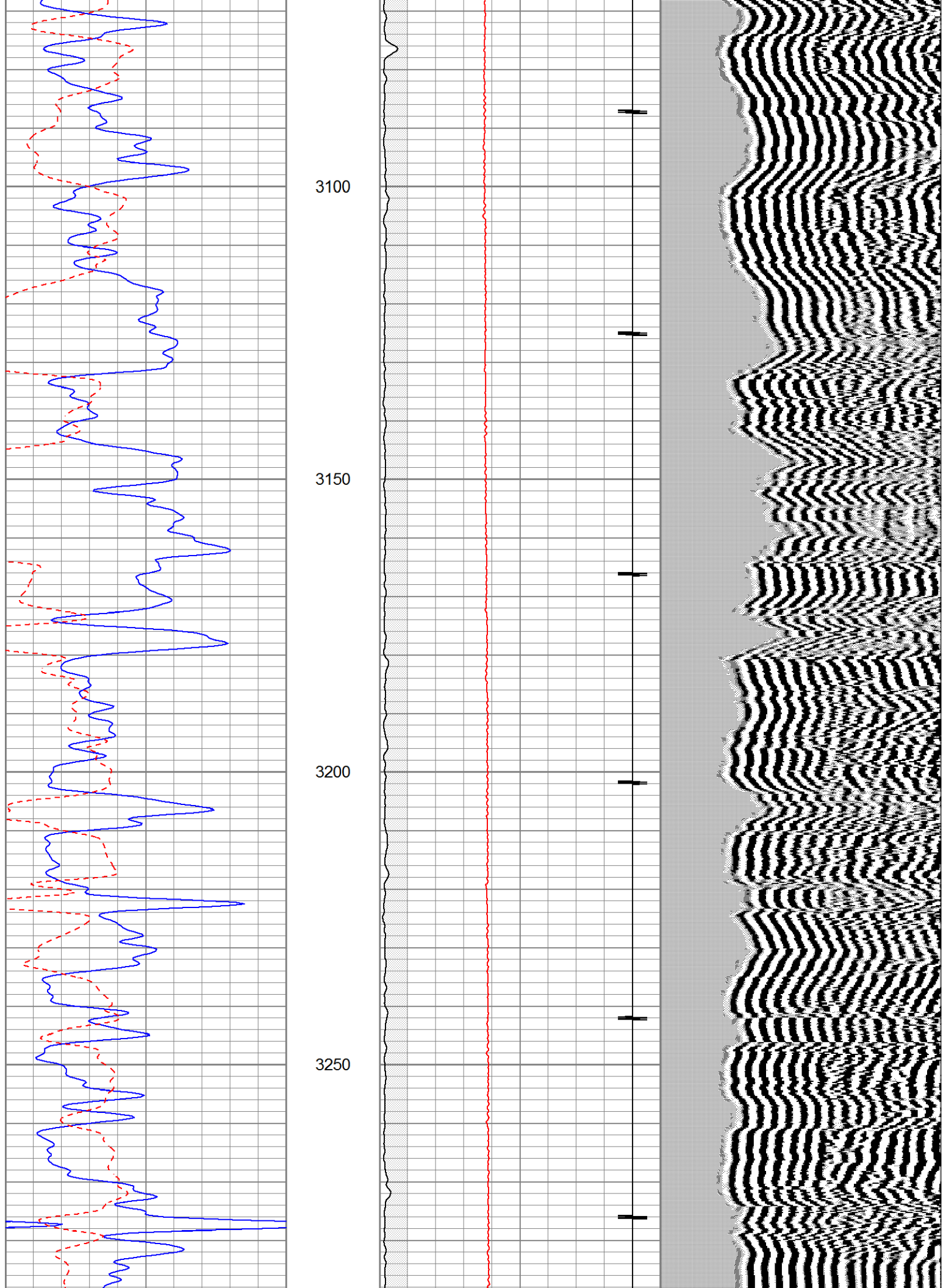
2600

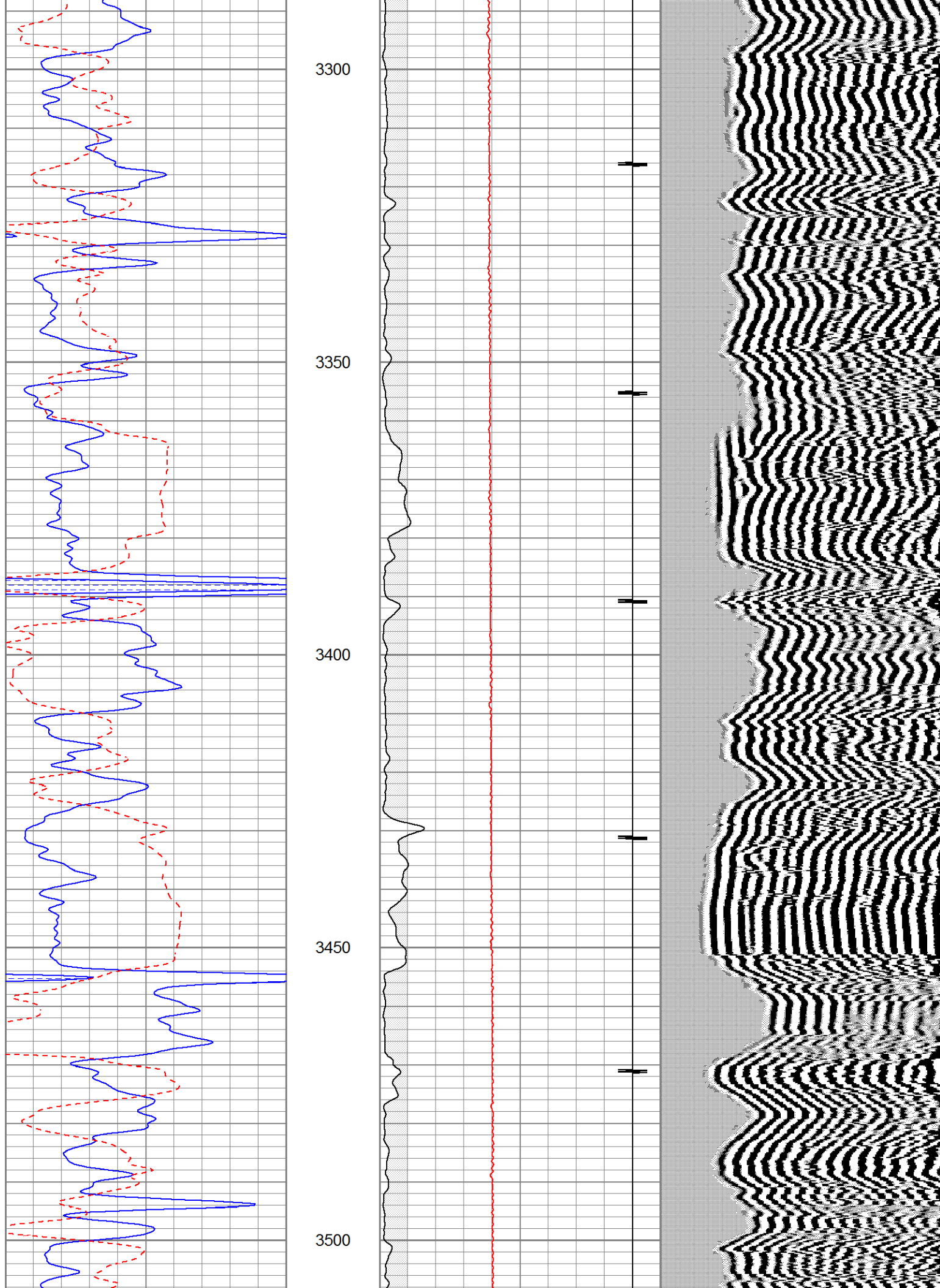
Estimated Top of Cement

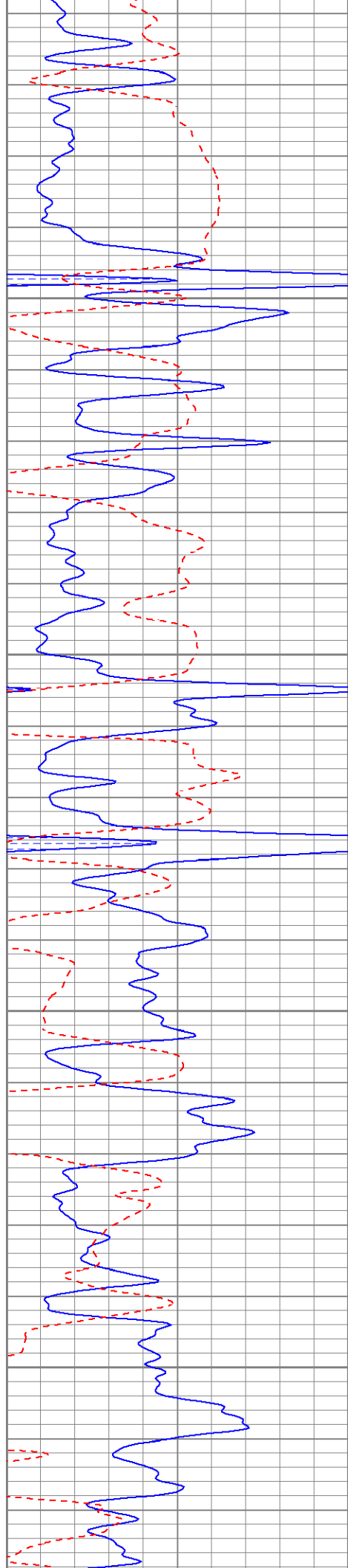












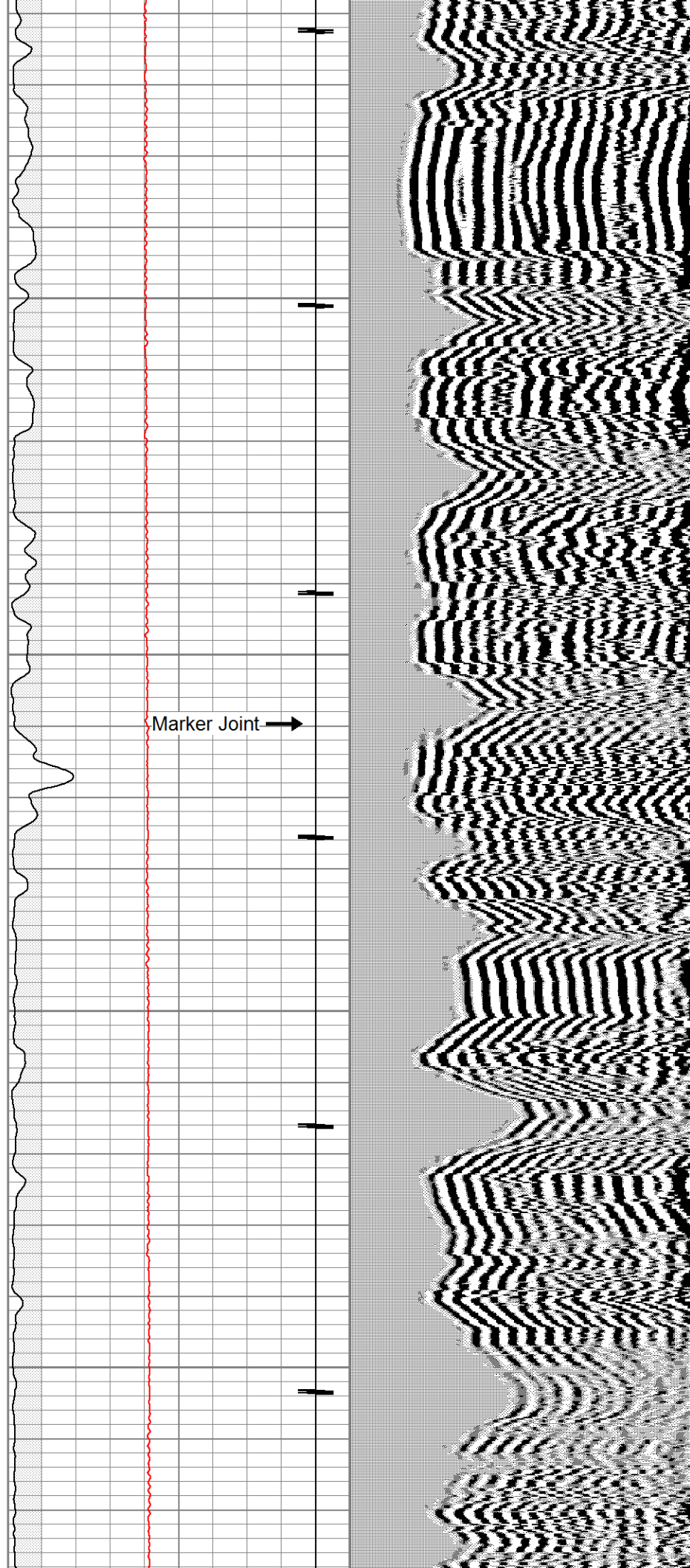
3550

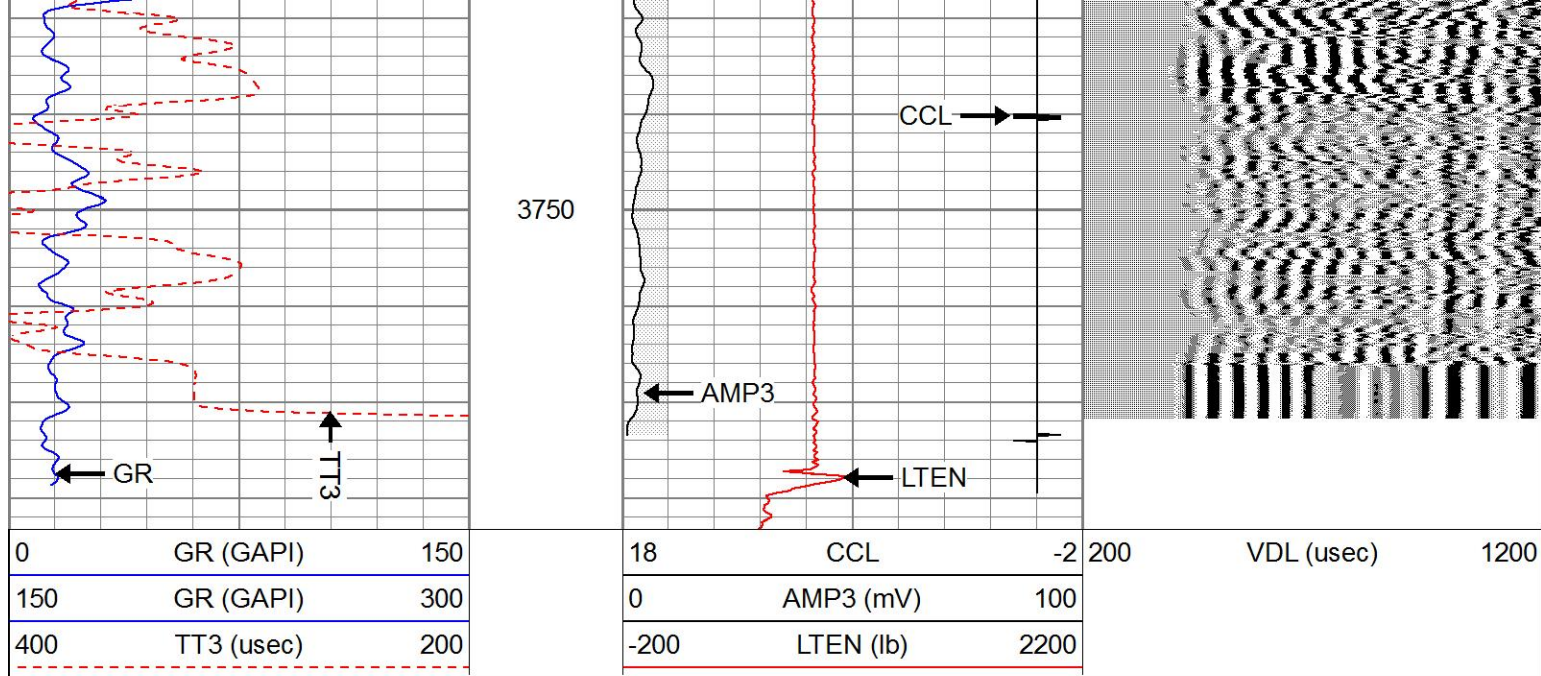
3600

3650

3700

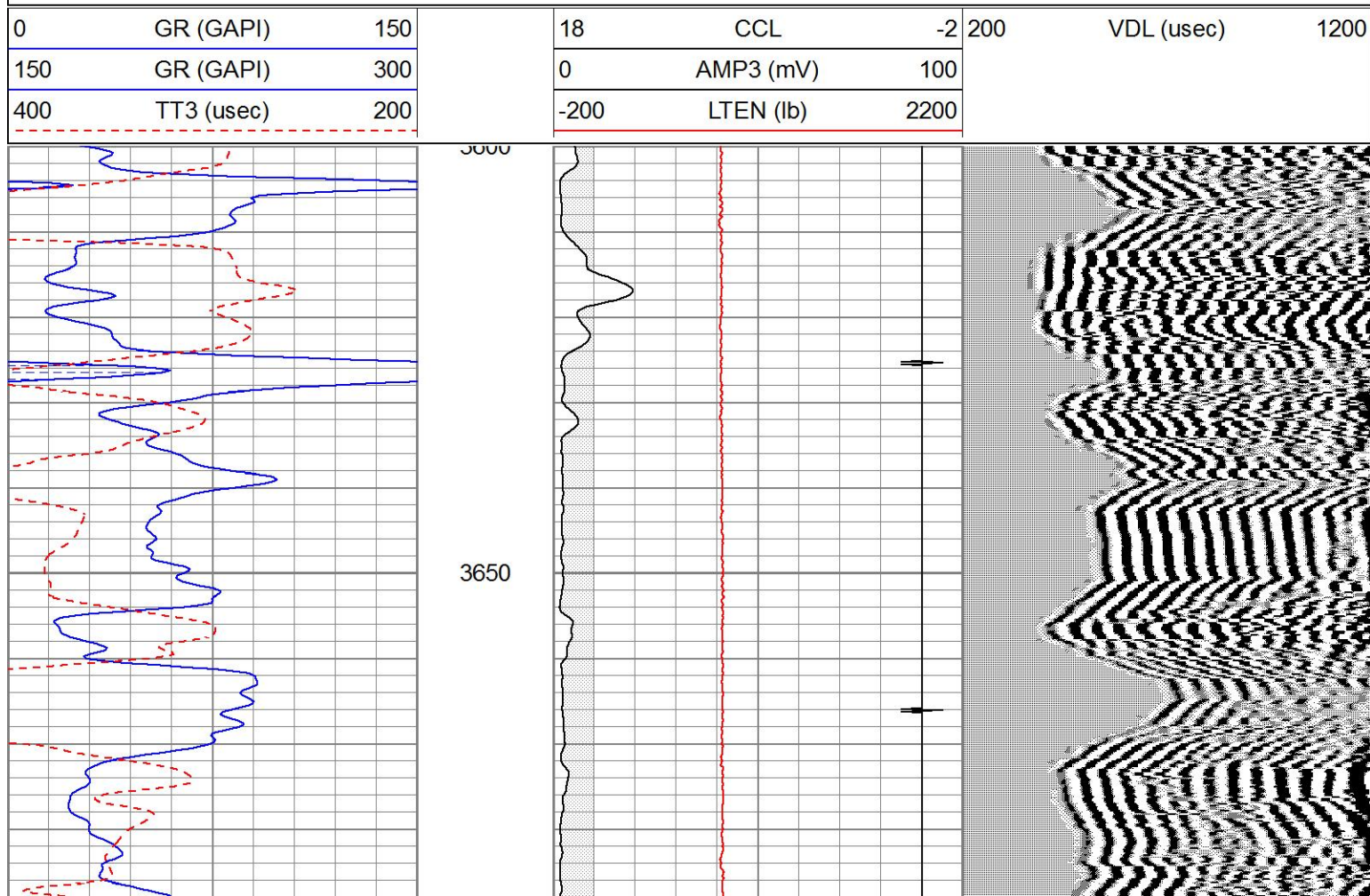
Marker Joint →

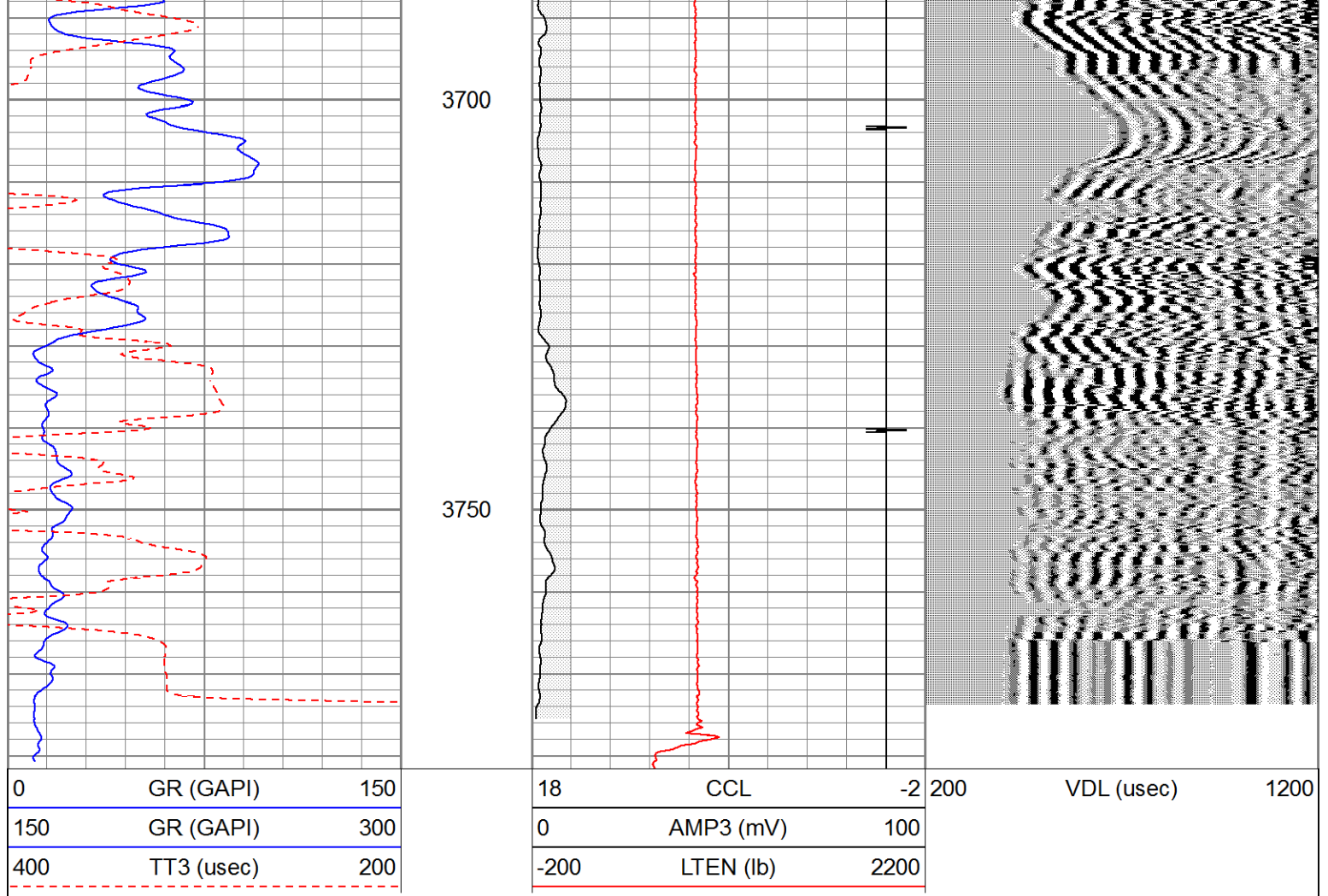




# REPEAT SECTION

Database File jofclackunit1cbl.db  
 Dataset Pathname pass2  
 Presentation Format cblsec  
 Dataset Creation Tue Jul 12 11:29:53 2022  
 Charted by Depth in Feet scaled 1:240





| Calibration Report                                      |                          |                 |          |         |        |  |
|---------------------------------------------------------|--------------------------|-----------------|----------|---------|--------|--|
| Database File                                           | jofclackunit1cbl.db      |                 |          |         |        |  |
| Dataset Pathname                                        | pass4                    |                 |          |         |        |  |
| Dataset Creation                                        | Tue Jul 12 11:40:21 2022 |                 |          |         |        |  |
| Gamma Ray Calibration Report                            |                          |                 |          |         |        |  |
| Serial Number:                                          | 080224                   |                 |          |         |        |  |
| Tool Model:                                             | Probe1                   |                 |          |         |        |  |
| Performed:                                              | Wed Jun 09 10:33:39 2021 |                 |          |         |        |  |
| Calibrator Value:                                       | 200.0                    |                 | GAPI     |         |        |  |
| Background Reading:                                     | 15.0                     |                 | cps      |         |        |  |
| Calibrator Reading:                                     | 222.7                    |                 | cps      |         |        |  |
| Sensitivity:                                            | 1.0000                   |                 | GAPI/cps |         |        |  |
| Segmented Cement Bond Log Calibration Report            |                          |                 |          |         |        |  |
| Serial Number:                                          | 061007                   |                 |          |         |        |  |
| Tool Model:                                             | DigitalCBL               |                 |          |         |        |  |
| Calibration Casing Diameter:                            | 5.500                    |                 | in       |         |        |  |
| Calibration Depth:                                      | 2265.842                 |                 | ft       |         |        |  |
| Master Calibration, performed Tue Sep 07 15:01:13 2021: |                          |                 |          |         |        |  |
| Raw (v)                                                 |                          | Calibrated (mv) |          | Results |        |  |
| Zero                                                    | Cal                      | Zero            | Cal      | Gain    | Offset |  |

|     |       |       |       |        |        |       |
|-----|-------|-------|-------|--------|--------|-------|
| 3'  | 0.003 | 1.187 | 1.000 | 71.921 | 59.879 | 0.846 |
| CAL |       |       |       |        |        |       |
| 5'  | 0.002 | 1.178 | 1.000 | 71.921 | 60.316 | 0.853 |
| SUM |       |       |       |        |        |       |
| S1  |       |       |       |        |        |       |
| S2  |       |       |       |        |        |       |
| S3  |       |       |       |        |        |       |
| S4  |       |       |       |        |        |       |
| S5  |       |       |       |        |        |       |
| S6  |       |       |       |        |        |       |
| S7  |       |       |       |        |        |       |
| S8  |       |       |       |        |        |       |

|                                                            |         |     |                |     |         |        |
|------------------------------------------------------------|---------|-----|----------------|-----|---------|--------|
| Internal Reference Calibration, performed (Not Performed): |         |     |                |     |         |        |
|                                                            | Raw (v) |     | Calibrated (v) |     | Results |        |
|                                                            | Zero    | Cal | Zero           | Cal | Gain    | Offset |
| CAL                                                        |         |     |                |     |         |        |

|                                                           |         |  |                |  |         |  |
|-----------------------------------------------------------|---------|--|----------------|--|---------|--|
| Air Zero Calibration, performed Wed Nov 13 08:15:38 2019: |         |  |                |  |         |  |
|                                                           | Raw (v) |  | Calibrated (v) |  | Results |  |
|                                                           | Zero    |  | Zero           |  | Offset  |  |
| 3'                                                        | 0.000   |  | 0.000          |  | 0.000   |  |
| 5'                                                        | 0.000   |  | 0.000          |  | 0.000   |  |
| SUM                                                       |         |  |                |  |         |  |
| S1                                                        |         |  |                |  |         |  |
| S2                                                        |         |  |                |  |         |  |
| S3                                                        |         |  |                |  |         |  |
| S4                                                        |         |  |                |  |         |  |
| S5                                                        |         |  |                |  |         |  |
| S6                                                        |         |  |                |  |         |  |
| S7                                                        |         |  |                |  |         |  |
| S8                                                        |         |  |                |  |         |  |

| Sensor  | Offset (ft) | Schematic                                                                           | Description                    | Length (ft) | O.D. (in) | Weight (lb) |
|---------|-------------|-------------------------------------------------------------------------------------|--------------------------------|-------------|-----------|-------------|
| CHD     | 19.89       |  | CHD-sdschd                     | 0.75        | 1.44      | 3.00        |
| CENT    | 19.14       |                                                                                     | CENT-275<br>2 3/4" Centralizer | 2.94        | 2.75      | 10.00       |
| WVF5FT  | 11.69       |                                                                                     | Probedig-DigitalCBL (061007)   | 8.77        | 2.75      | 92.00       |
| WVF3FT  | 11.69       |                                                                                     | 2 3/4 Bond Tool                |             |           |             |
| CENT    | 7.44        |                                                                                     | CENT-275<br>2 3/4" Centralizer | 2.94        | 2.75      | 10.00       |
| WVFSYNC | 7.44        |                                                                                     | CCI -Probe (080224)            | 1.42        | 2.75      | 7.50        |

