# GAMMA RAY CCL
# CEMENT BOND SECTOR VDL

Company EXTRACTION
Well STATE OF COLORADO 1S-66-36-1609BH
Field THIRD CREEK
County ADAMS
State COLORADO

**Company** EXTRACTION
**Well** STATE OF COLORADO 1S-66-36-1609BH
**Field** THIRD CREEK
**County** ADAMS **State** COLORADO

**Location:** API # : 05-001-09781

1298' FNL & 299' FWL

SEC 36 TWP 1S RGE 66W

Other Services

| | | | |
|---|---|---|---|
| Permanent Datum | GL | Elevation | 5180 |
| Log Measured From | KB | | |
| Drilling Measured From | KB | | |

Elevation
K.B. 5203
D.F. 5202
G.L. 5180

| | | | |
|---|---|---|---|
| Date | MARCH 18, 2020 | | |
| Run Number | ONE | | |
| Depth Driller | 12118 | | |
| Depth Logger | 2025 | | |
| Bottom Logged Interval | 2025 | | |
| Top Log Interval | SURFACE | | |
| Open Hole Size | | | |
| Type Fluid | WATER | | |
| Density / Viscosity | N/A | | |
| Max. Recorded Temp. | N/A | | |
| Estimated Cement Top | | | |
| Time Well Ready | ROA | | |
| Time Logger on Bottom | 17:00 | | |
| Equipment Number | 802 | | |
| Location | KERSEY, CO | | |
| Recorded By | GREG NOLAN | | |
| Witnessed By | BERNIE CHAVEZ | | |

| Borehole Record | | | | Tubing Record | | | |
|---|---|---|---|---|---|---|---|
| Run Number | Bit | From | To | Size | Weight | From | To |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

| Casing Record | Size | Wgt/Ft | Top | Bottom |
|---|---|---|---|---|
| Surface String | 9-5/8 | 36# | SURFACE | 1490 |
| Prot. String | | | | |
| Production String | 7 | 26# | SURFACE | 7900 |
| Liner | 4-1/2 | 11.6 | 7200 | 12118 |
| | | | | |

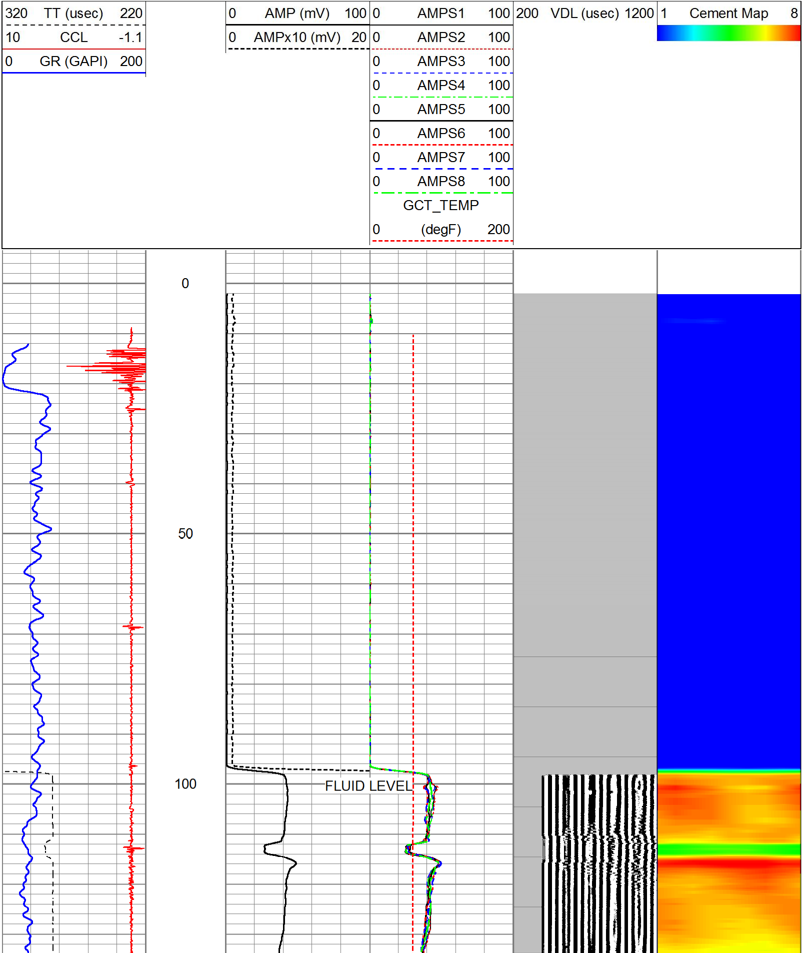
<<< Fold Here >>>

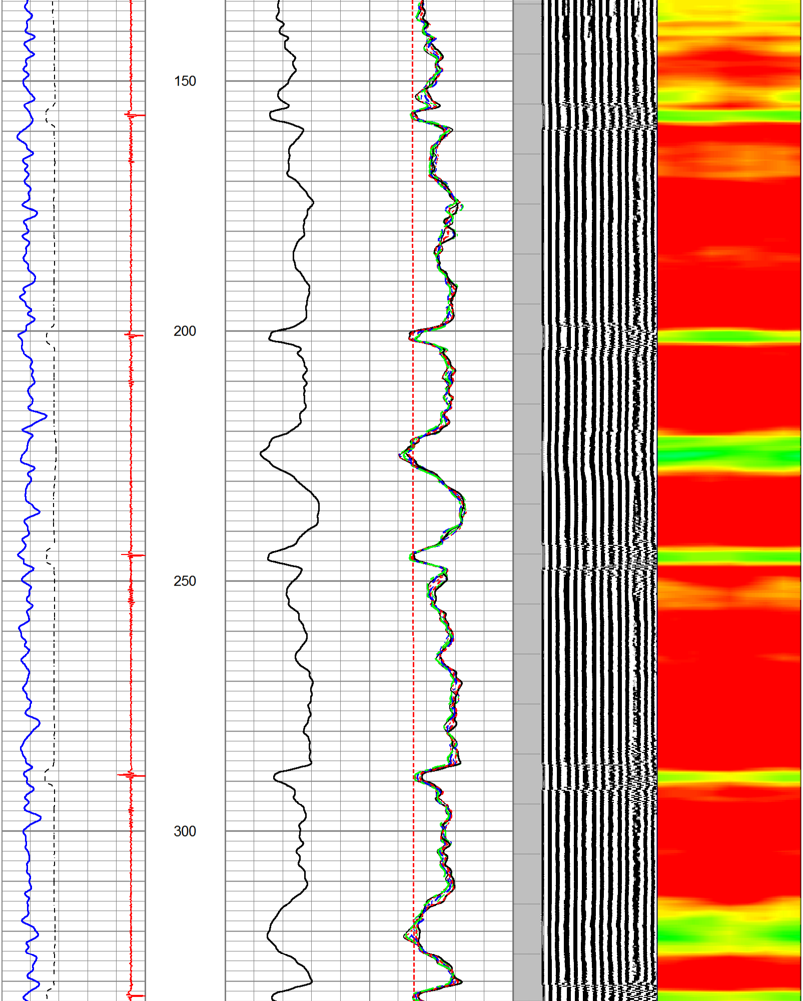
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, 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.

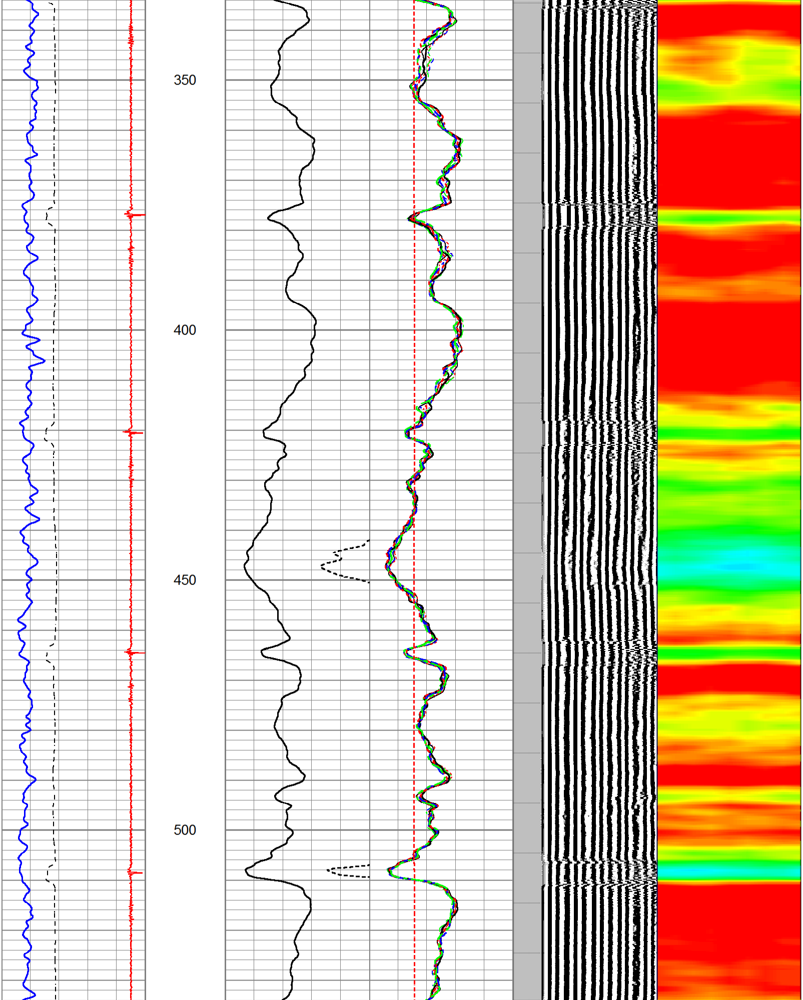
## Comments

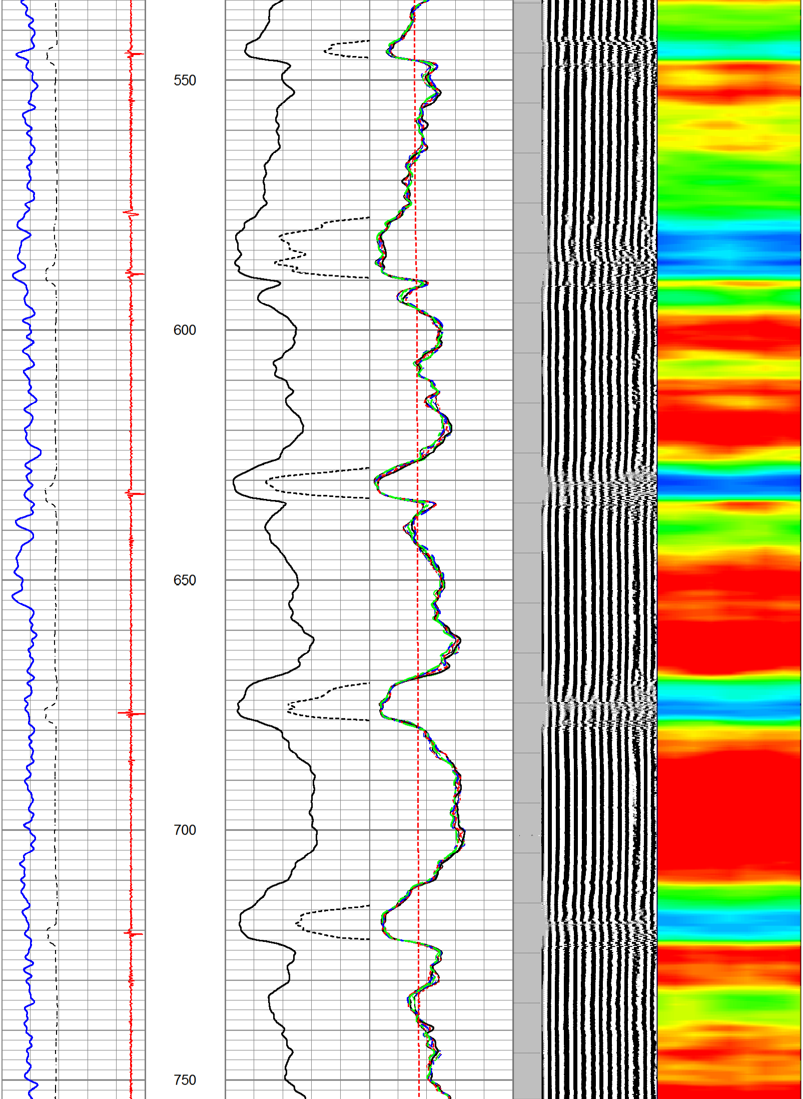
THANK YOU FOR CHOOSING SUREFIRE WIRELINE WEST!!!
LOG CORRELATED TO PSI BOND LOG DATED 6 MAY 2014

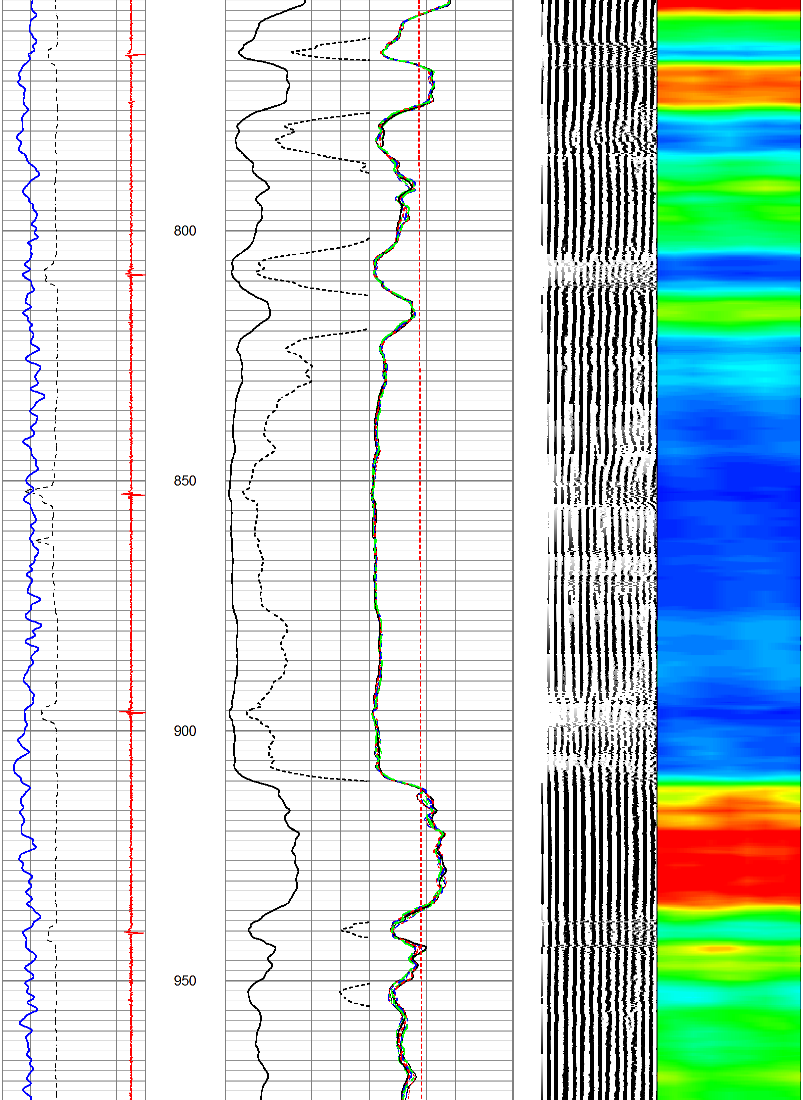
| | |
|---|---|
| Database File | cbl extraction state of co o1s-66-36-1609bh.db |
| Dataset Pathname | pass5 |
| Presentation Format | prb_rbt8_mod |
| Dataset Creation | Wed Mar 18 17:21:31 2020 |
| Charted by | Depth in Feet scaled 1:240 |

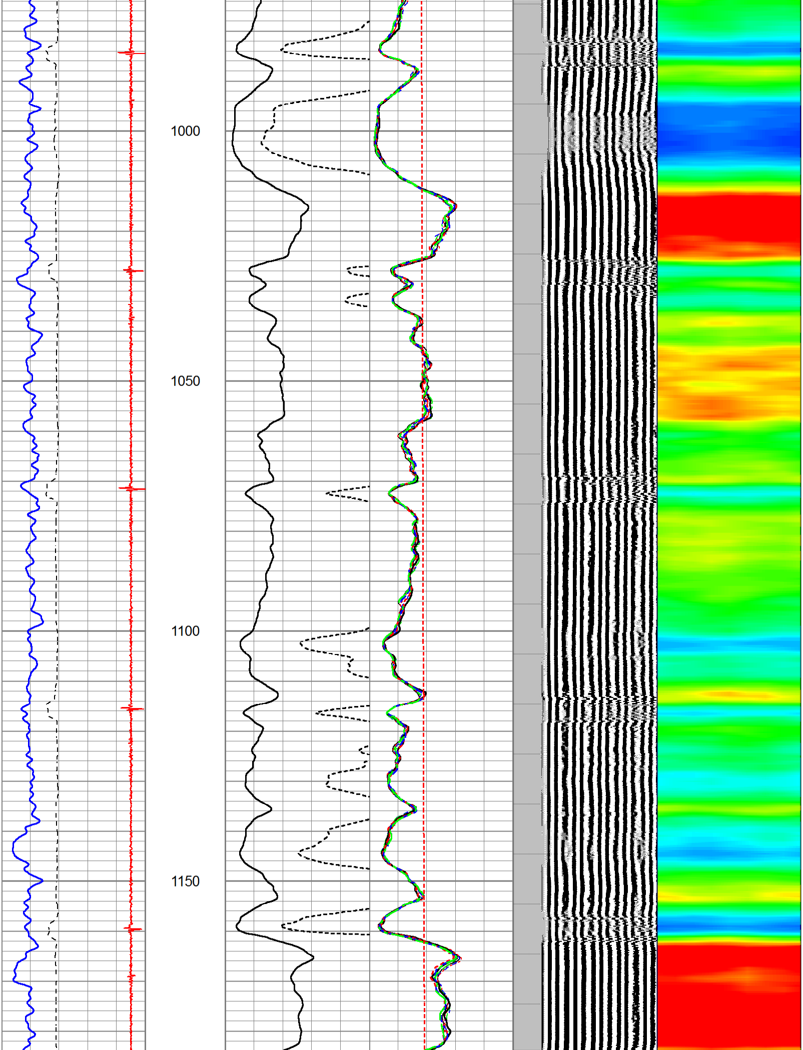


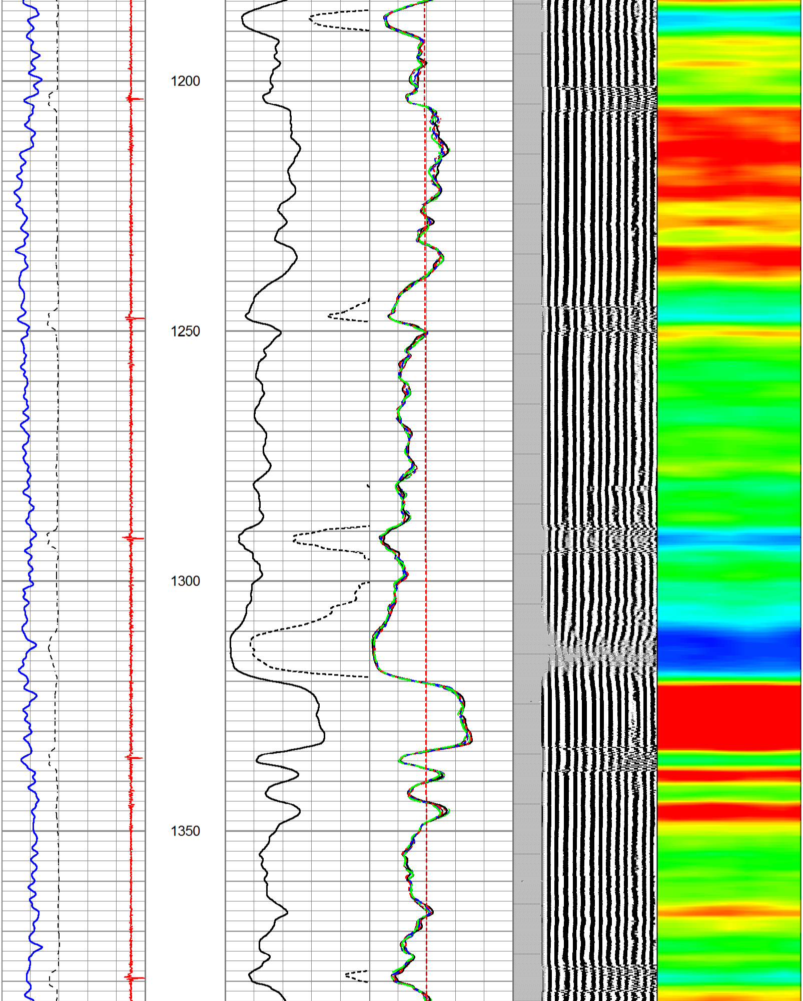


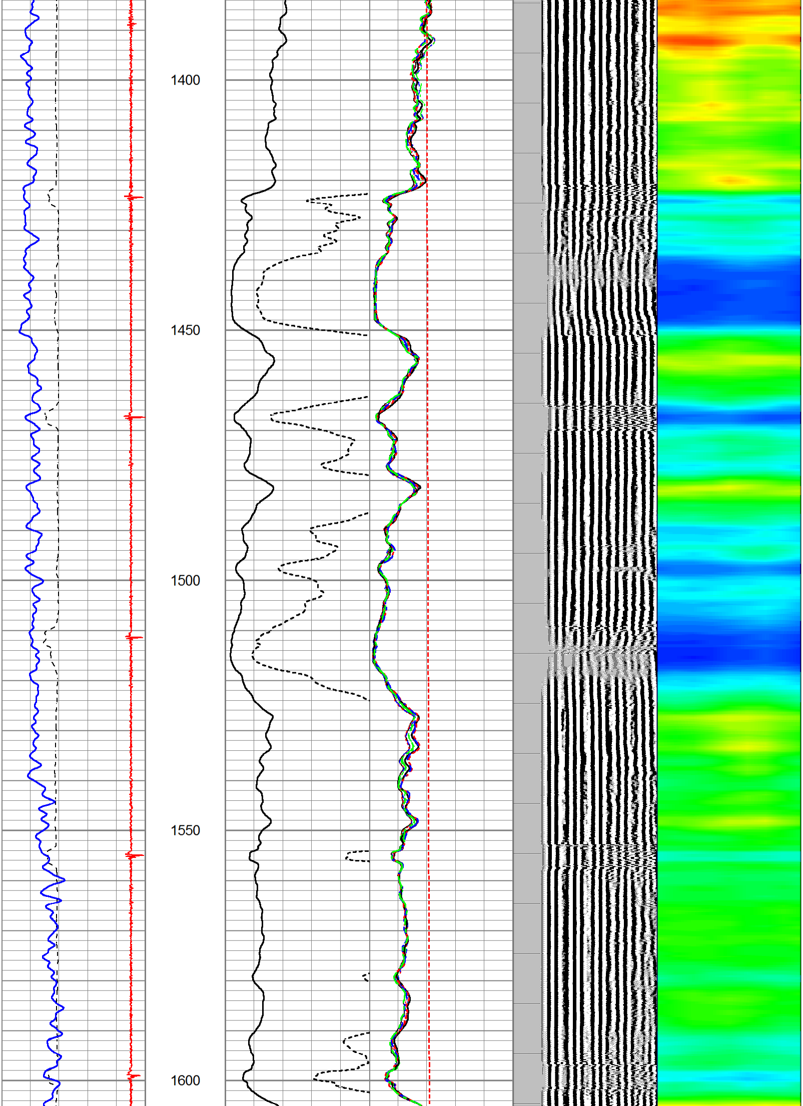


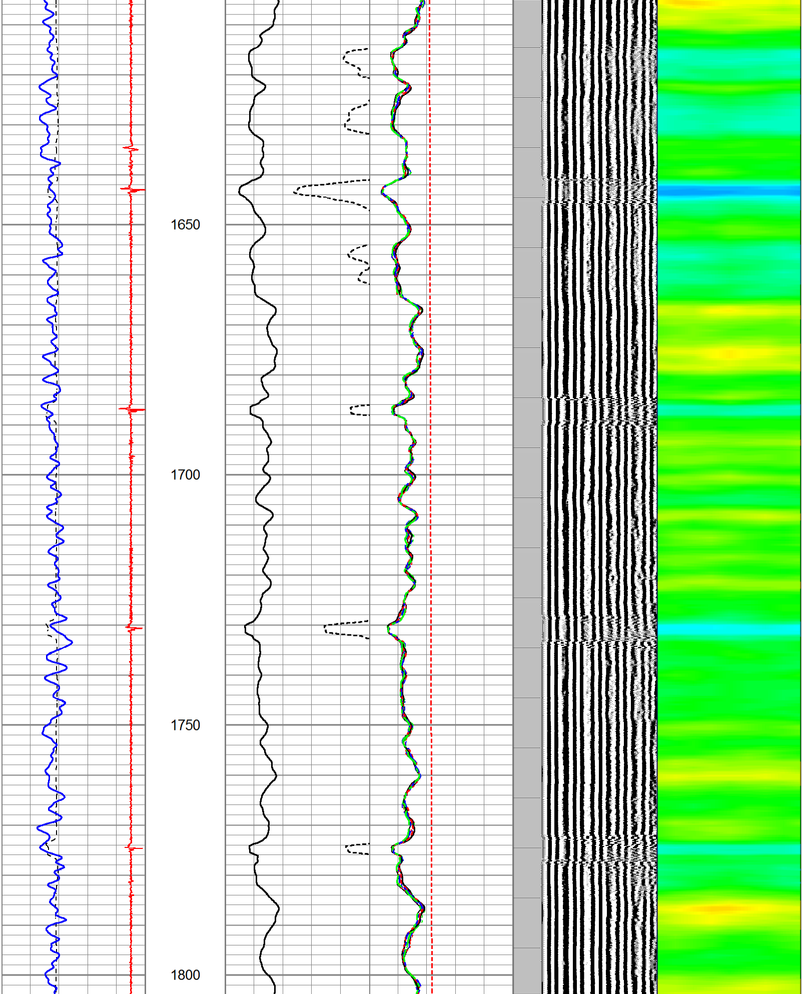


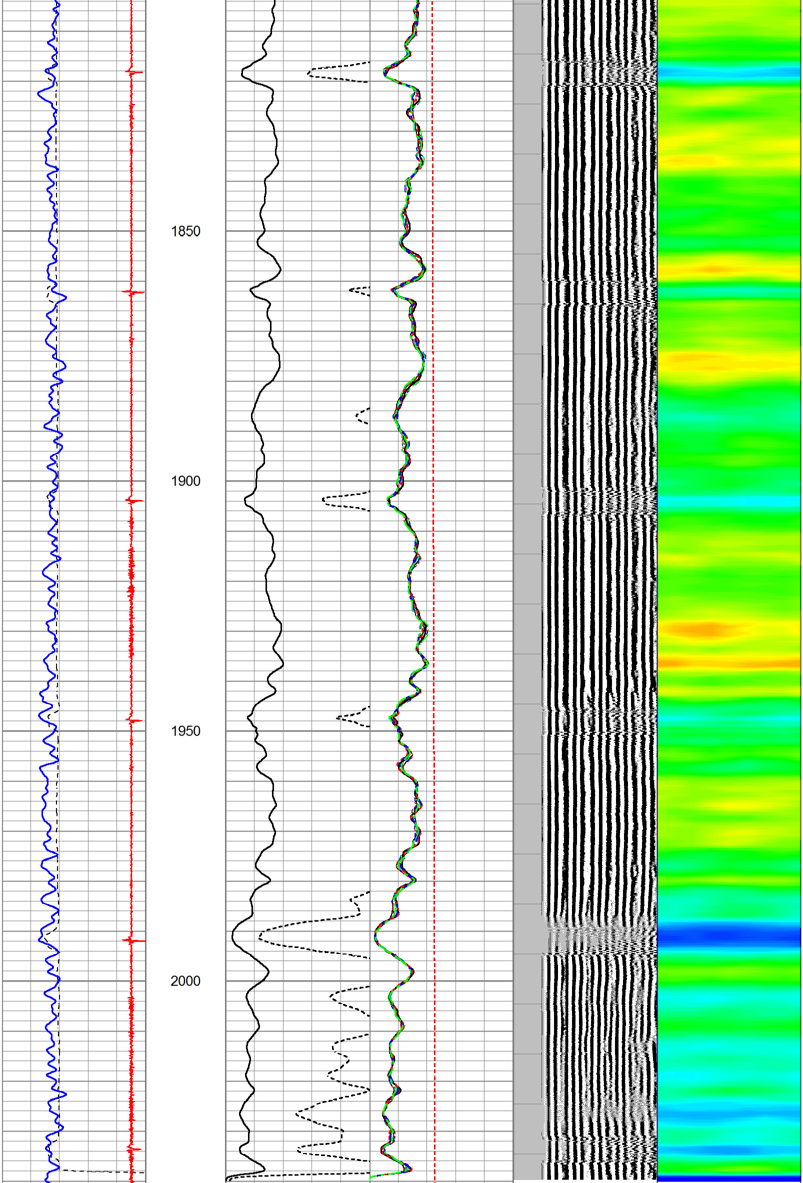


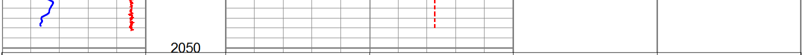












320 TT (usec) 220
10 CCL -1.1
0 GR (GAPI) 200

0 AMP (mV) 100
0 AMPx10 (mV) 20

0 AMPS1 100
0 AMPS2 100
0 AMPS3 100
0 AMPS4 100
0 AMPS5 100
0 AMPS6 100
0 AMPS7 100
0 AMPS8 100
GCT_TEMP
0 (degF) 200

200 VDL (usec) 1200

1 Cement Map 8

## Calibration Report

| | |
|---|---|
| Database File | cbl extraction state of co o1s-66-36-1609bh.db |
| Dataset Pathname | pass5 |
| Dataset Creation | Wed Mar 18 17:21:31 2020 |

## Gamma Ray Calibration Report

| | | |
|---|---|---|
| Serial Number: | FW1905-098 | |
| Tool Model: | GCT275-0000 | |
| Performed: | Tue Mar 03 11:08:44 2020 | |
| Calibrator Value: | 1.0 | GAPI |
| Background Reading: | 0.0 | cps |
| Calibrator Reading: | 1.0 | cps |
| Sensitivity: | 0.6800 | GAPI/cps |

## Segmented Cement Bond Log Calibration Report

| | | |
|---|---|---|
| Serial Number: | FW1905-055 | |
| Tool Model: | Probe | |
| Calibration Casing Diameter: | 7.000 | in |
| Calibration Depth: | 413.742 | ft |

Master Calibration, performed Wed Mar 18 17:13:16 2020:

| | Raw (v) | | Calibrated (mv) | | Results | |
|---|---|---|---|---|---|---|
| | Zero | Cal | Zero | Cal | Gain | Offset |
| 3' | 0.005 | 1.502 | 0.800 | 62.165 | 40.994 | 0.602 |
| CAL | 0.005 | 1.846 | | | | |
| 5' | 0.005 | 1.491 | 0.800 | 62.165 | 41.293 | 0.602 |
| SUM | | | | | | |
| S1 | 0.005 | 1.416 | 0.000 | 62.165 | 44.039 | -0.211 |
| S2 | 0.005 | 1.308 | 0.000 | 62.165 | 47.685 | -0.229 |
| S3 | 0.005 | 1.285 | 0.000 | 62.165 | 48.566 | -0.234 |
| S4 | 0.005 | 1.334 | 0.000 | 62.165 | 46.769 | -0.224 |
| S5 | 0.005 | 1.447 | 0.000 | 62.165 | 43.114 | -0.209 |
| S6 | 0.005 | 1.632 | 0.000 | 62.165 | 38.201 | -0.185 |
| S7 | 0.005 | 1.682 | 0.000 | 62.165 | 37.057 | -0.179 |
| S8 | 0.005 | 1.602 | 0.000 | 62.165 | 38.911 | -0.188 |

Internal Reference Calibration, performed (Not Performed):

| | Raw (v) | | Calibrated (v) | | Results | |
|---|---|---|---|---|---|---|
| | Zero | Cal | Zero | Cal | Gain | Offset |
| CAL | 0.000 | 0.000 | 0.005 | 1.846 | 1.000 | 0.000 |

---

Air Zero Calibration, performed Wed Mar 18 17:00:33 2020:

| | Raw (v) | Calibrated (v) | Results |
|---|---|---|---|
| | Zero | Zero | Offset |
| 3' | 0.000 | 0.000 | 0.000 |
| 5' | 0.000 | 0.000 | 0.000 |
| SUM | | | |
| S1 | 0.000 | 0.000 | 0.000 |
| S2 | 0.000 | 0.000 | 0.000 |
| S3 | 0.000 | 0.000 | 0.000 |
| S4 | 0.000 | 0.000 | 0.000 |
| S5 | 0.000 | 0.000 | 0.000 |
| S6 | 0.000 | 0.000 | 0.000 |
| S7 | 0.000 | 0.000 | 0.000 |
| S8 | 0.000 | 0.000 | 0.000 |