

Company: CONOCOPHILLIPS CANADA RESOURCES CORP.

Well: COPRC DODO CANYON E76

Field: DODO CANYON

Province: NORTHWEST TERRITORIES

CEMENT VOLUME LOG

| | | | |
|-------------------------|------------------------------------|---------------------------|------------------------|
| Province: | NORTHWEST TERRITORIES | | |
| Field: | DODO CANYON | | |
| Location: | UNIT E SECTION 76 | | |
| Well: | COPRC DODO CANYON E76 | | |
| Company: | CONOCOPHILLIPS CANADA RESOURCES CO | | |
| Location: | | UNIT E SECTION 76 | Elev.: K.B. 273.40 m |
| | | 300E766510126450 | G.L. 268.20 m |
| | | NORTHING: 7219874.66 | D.F. 273.10 m |
| | | EASTING: 594010.01 | |
| Permanent Datum: | Ground Level | Elev.: | 268.20 |
| Log Measured From: | Kelly Bushing | 5.20 m | above Perm.Datum |
| Drilling Measured From: | Kelly Bushing | | |
| API Serial No. | | Longitude: 126° 59' 58" W | Latitude: 65° 5' 27" N |
| EL470 | | | |

| | | | |
|-----------------------------|---------------------|----------------|--|
| Logging Date | 14-Jan-2014 | | |
| Run Number | 1.1 | | |
| Depth Driller | 1908.00 m | | |
| Schlumberger Depth | 1819.10 m | | |
| Bottom Log Interval | 1813.63 m | | |
| Top Log Interval | 603.00 m | | |
| Casing Driller Size @ Depth | 244.5 mm @ 603.00 m | | |
| Casing Schlumberger | 603 m | | |
| Bit Size | 222 mm | | |
| Type Fluid In Hole | INVERT | | |
| Density | Viscosity | 75 s | |
| Fluid Loss | PH | | |
| Source of Sample | N/A | | |
| RM @ Meas Temp | N/A | | |
| RMF @ Meas Temp | N/A | | |
| RMC @ Meas Temp | N/A | | |
| Source RMF | RMC | N/A | |
| RM @ BHT | RMF @ BHT | N/A | |
| Max Recorded Temperatures | 71.5 degC | | |
| Circulation Stopped | Time | 07:20:00 | |
| Logger on Bottom | Time | 18:25:00 | |
| Unit Number | Location: | GRANDE PRAIRIE | |
| Recorded By | JEFFREY TATLOCK | | |
| Witnessed By | DAVID LAWRENCE | | |

Disclaimer

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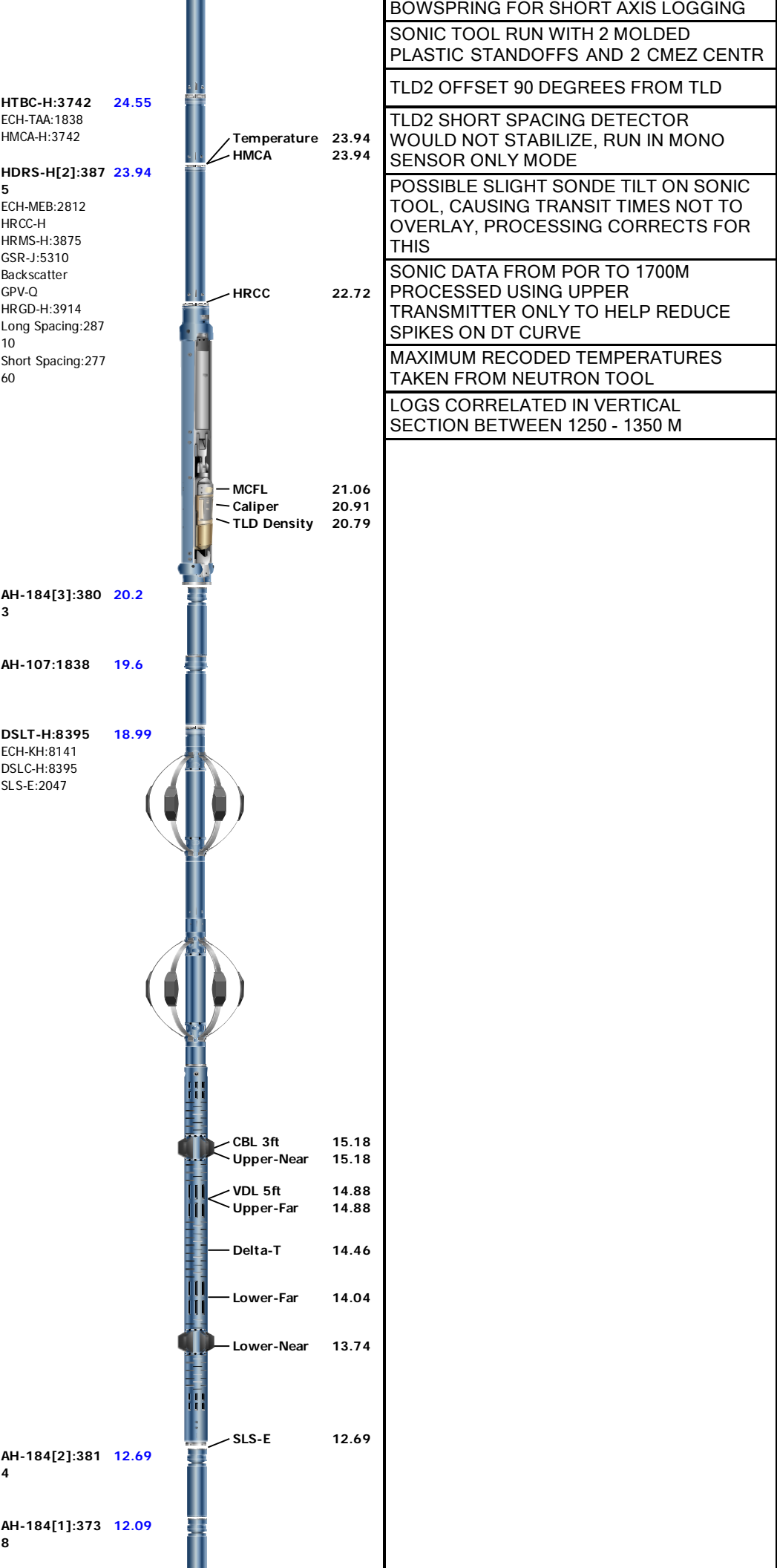
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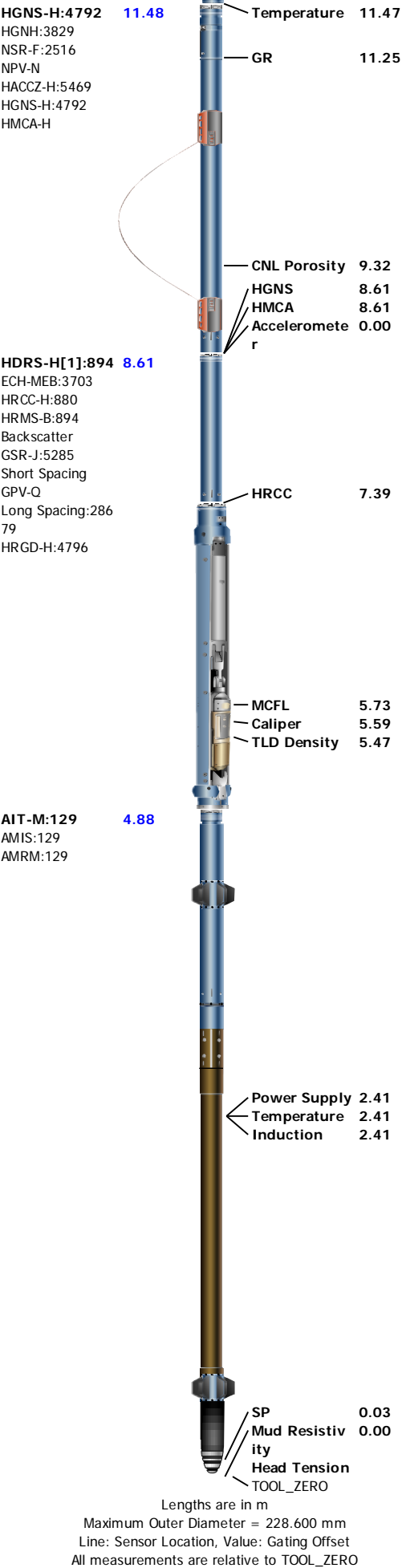
Borehole Fluids

| Parameter(unit) | 1.1 | | | | | |
|------------------------------------|----------------------|--|--|--|--|--|
| Fluid Type | Oil | | | | | |
| Fluid Name | INVERT | | | | | |
| Max Recorded Temperatures (degC) | 71.5 | | | | | |
| Source of Sample | N/A | | | | | |
| Salinity (ppm) | 0 | | | | | |
| Density (kg/m3) | 1025 | | | | | |
| Funnel Viscosity (s) | 75 | | | | | |
| Fluid Loss (cm3) | | | | | | |
| PH | | | | | | |
| Date/Time Circulation Stopped | 14-Jan-2014 07:20:00 | | | | | |
| Date Logger on Bottom | 14-Jan-2014 | | | | | |
| Time Logger on Bottom | 18:25:00 | | | | | |
| Source RMF | N/A | | | | | |
| RMC | N/A | | | | | |
| RM @ Meas Temp (ohm.m@degC) | N/A | | | | | |
| RMF @ Meas Temp (ohm.m@degC) | N/A | | | | | |
| RMC @ Meas Temp (ohm.m@degC) | N/A | | | | | |
| RM @ BHT (ohm.m@degC) | N/A | | | | | |
| RMF @ BHT (ohm.m@degC) | N/A | | | | | |
| RMC @ BHT (ohm.m@degC) | N/A | | | | | |
| Electricity Stability (V) | | | | | | |
| Oil/Water | | | | | | |
| Total Solid (%) | | | | | | |
| High Gravity Solids (%) | | | | | | |

Remarks and Equipment Summary

| 1.1: Toolstring | | | | 1.1: Remarks | |
|--|-----------------|-----------------------------------|-----------------------------|---|--|
| Equip name LEH-QT:2850 LEH-QT:2850 | Length 28.03 | MP name | Offset | ALL INTERVALS AND PRESENTATIONS AS PER CLIENT REQUEST | |
| | | | | RIG: BEAVER 2 | |
| | | | | SLB CREW: JASON LEGASSIE | |
| DTC-H:9100 ECH-KC:10172 DTC-H:9100 | 27.14 | CTEM HV | 26.86 0.00 | LOGGER REQUESTED AT: 10:30 14-JAN-2014 | |
| | | | | LOGGER ARRIVED AT: 09:30 14-JAN-2014 | |
| | | | | RIG READY AT: 15:45 14-JAN-2014 | |
| SGT-N:10447 SGH-K:3210 SGC-TB:10447 SGD-TAA | 26.22 | ToolStatus TelStatus GR | 26.22 26.22 25.94 | INDUCTION TOOL RUN WITH 38.1 MM STANDOFFS IN COMPUTE MUD RESISTIVITY MODE | |
| | | | | NEUTRON TOOL RUN WITH DUAL AXIS | |





Depth Summary

1.1

Depth Measuring Device

| | | | | | | | | | |
|------------------------------------|--------------------------|--|----------|-----------------|---|------------------------------------|--------------|------------------|-----------------------|
| Depth Measuring Device | | | | | | | | | |
| Type | IDW-JA | | | | | | | | |
| Serial Number | 6162 | | | | | | | | |
| Calibration Date | 10-MAY-2010 | | | | | | | | |
| Calibrator Serial Number | 4 | | | | | | | | |
| Calibration Cable Type | 7-39 PLXS | | | | | | | | |
| Wheel Correction 1 | -3 | | | | | | | | |
| Wheel Correction 2 | 1 | | | | | | | | |
| Tension Device | | | | | | | | | |
| Type | CMTD-B/A | | | | | | | | |
| Serial Number | 1293 | | | | | | | | |
| Calibration Date | 06-SEP-2013 | | | | | | | | |
| Calibrator Serial Number | 1111 | | | | | | | | |
| Number of Calibration Points | 10 | | | | | | | | |
| Calibration Root Mean Square Error | 28 | | | | | | | | |
| Calibration Peak Error | 54 | | | | | | | | |
| Logging Cable | | | | | | | | | |
| Type | 7-39P-LXS | | | | | | | | |
| Serial Number | | | | | | | | | |
| Length | 3100.00 m | | | | | | | | |
| Conveyance Type | Wireline | | | | | | | | |
| Rig Type | | | | | | | | | |
| 1.1:Depth Control Parameters | | | | | Depth Control Remarks | | | | |
| Log Sequence | First Log In the Well | | | | ALL SCHLUMBERGER DEPTH CONTROL PROCEDURES FOLLOWED | | | | |
| Rig Up Length At Surface | 56.06 m | | | | IDW USED AS PRIMARY DEPTH CONTROL | | | | |
| Rig Up Length At Bottom | 56.02 m | | | | Z-CHART USED AS SECONDARY DEPTH CONTROL | | | | |
| Rig Up Length Correction | 0.04 m | | | | ALL LOGS CORRELATED TO DOWN LOG IN VERTICAL SECTION BETWEEN 1250 - 1350 M | | | | |
| Stretch Correction | 1.27 m | | | | | | | | |
| Tool Zero Check At Surface | 0.30 m | | | | | | | | |
| 1.1 | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| Integration Summary | | | | | | | | | |
| Output Channel(s) | Output Description | | | Input Parameter | | | Output Value | Unit | |
| ICV | Integrated Cement Volume | | | HVCS, FCD | | | 16.92 | m3 | |
| IHV | Integrated Hole Volume | | | HVCS | | | 47.16 | m3 | |
| Software Version | | | | | | | | | |
| Acquisition System | | | | | | Version | | | |
| MaxWell | | | | | | 4.0.9163.3000 | | | |
| Application Patch | | | | | | Patch-SP-10767_13075-4.0.9163.3001 | | | |
| Computation | | Description | | | | | | Version | |
| Borehole | | Borehole Ensemble provides common Borehole Parameters and Channels | | | | | | 4.0.9213.3000 | |
| DepthCorrection | | DepthCorrection | | | | | | 4.0.9213.3000 | |
| Tool Elements | | Description | | | | Software Version | | Firmware Version | |
| HRCC-H | | HILT High-Resolution Control Cartridge, 150 degC | | | | 4.0.9231.3000 | | 2.0 | |
| HMCA-H | | HILT Master Communication Assembly, 150 degC | | | | 4.0.9231.3000 | | 3.0 | |
| HGNS-H | | HILT Gamma-Ray and Neutron Sonde, 150 degC | | | | 4.0.9231.3000 | | 2.0 | |
| Pass Summary | | | | | | | | | |
| Run Name | Pass Objective | Direction | Top | Bottom | Start | Stop | DSC Mode | Depth Shift | Include Parallel Data |
| 1.1 | Log[5]:Up | Up | 543.85 m | 1822.88 m | 14-Jan-2014 6:48:20 PM | 14-Jan-2014 8:17:20 PM | ON | -1.90 m | Yes |

All depths are referenced to toolstring zero

Log

Company: CONOCOPHILLIPS CANADA RESOURCES CORP.

Well: COPRC DODO CANYON E76

1.1: Log[5]:Up:S023

Description: MCFL processing LOC for Platform Express Format: Log (CVL_HCAL_HCAL2) Index Scale: 1:240 Index Unit: m Index Type: Measured

Depth Creation Date: 15-Jan-2014 01:20:20

| Channel | Source | Sampling |
|-----------|-------------------------|----------|
| BS | Borehole | 6in |
| CALI.1 | HDRS-H[1]:HRCC-H:HRCC-H | 1in |
| CALI.2 | HDRS-H[2]:HRCC-H:HRCC-H | 1in |
| CTEM | HGNS-H:HGNS-H:HMCA-H | 6in |
| FCD | Borehole | 6in |
| GR_CAL | HGNS-H:HGNS-H:HGNS-H | 6in |
| ICV | Borehole | 6in |
| IHV | Borehole | 6in |
| STIT | DepthCorrection | 6in |
| TENS | WLWorkflow | 1in |
| TIME_1900 | WLWorkflow | 0.1in |

—ICV - Integrated Cement Volume every 0.10 (m3)

—IHV - Integrated Hole Volume every 1.00 (m3)

TIME_1900 - Time Marked every 60.00 (s)

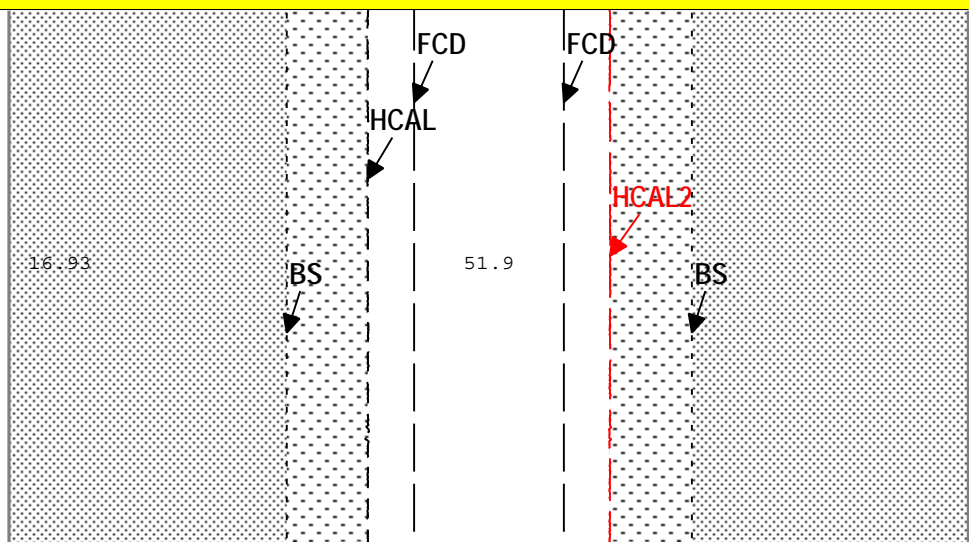
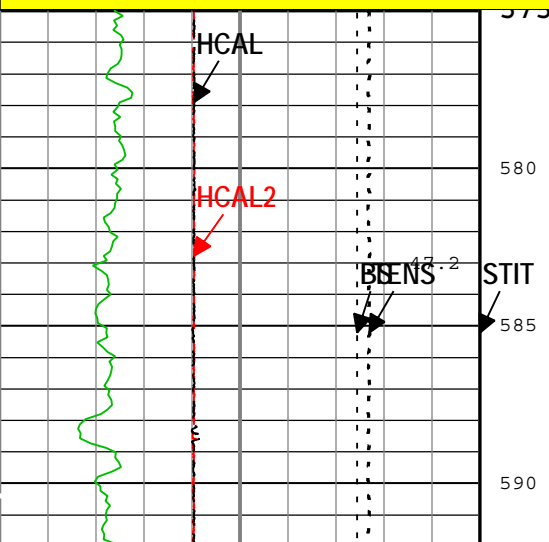
—IHV - Integrated Hole Volume every 0.10 (m3)

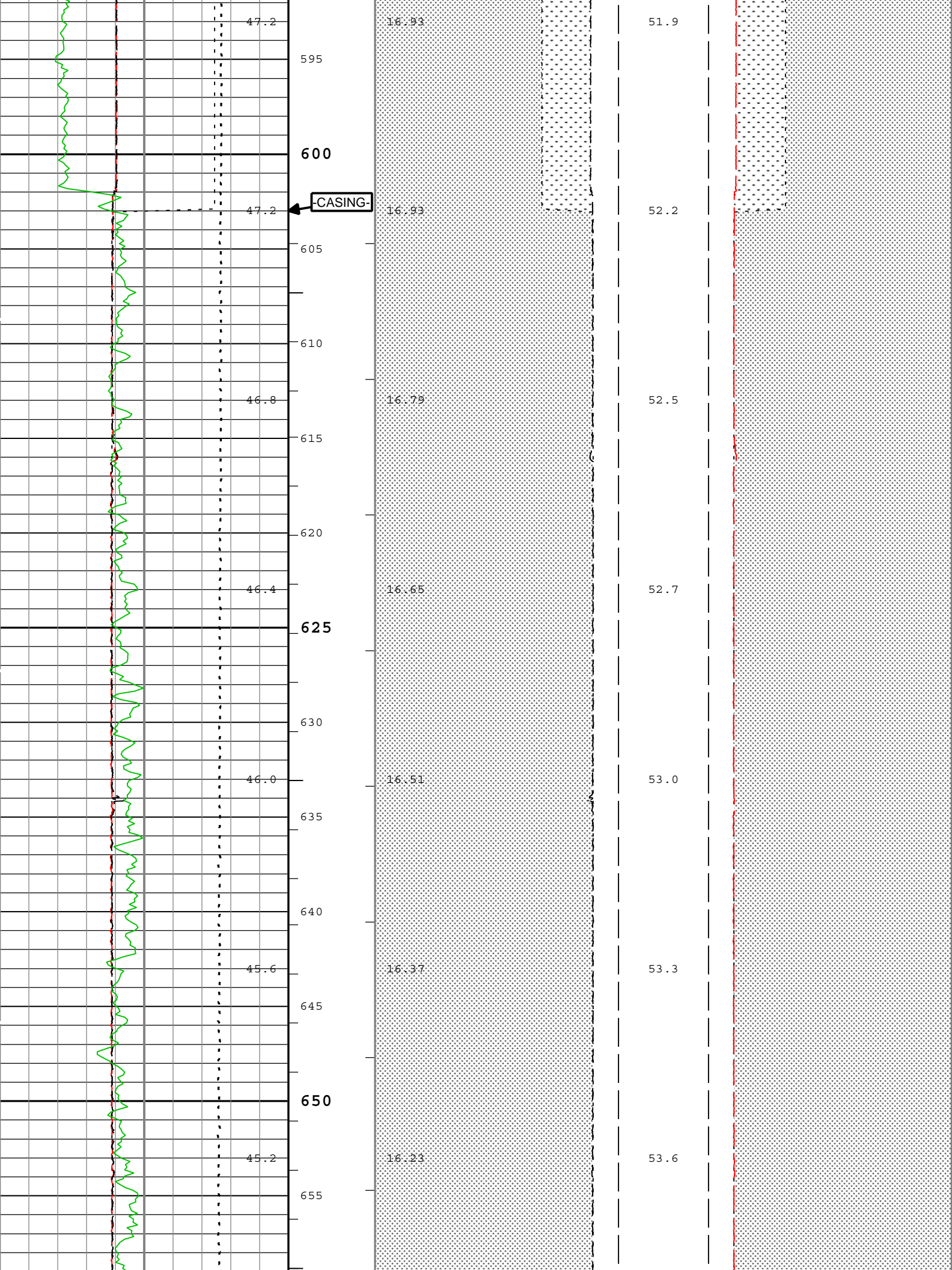
—ICV - Integrated Cement Volume every 1.00 (m3)

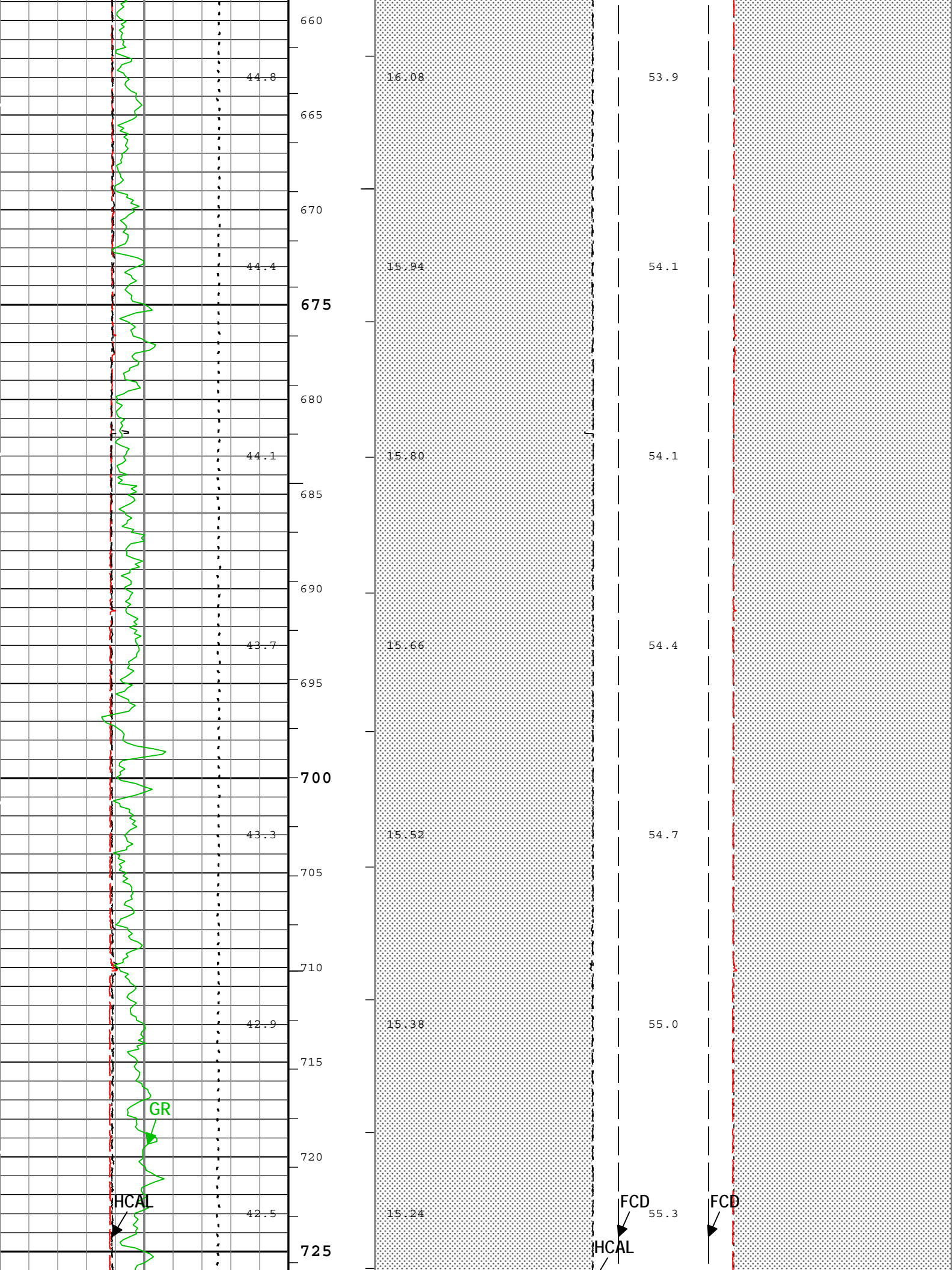
| Cable Tension (TENS) | | |
|----------------------|------|-----|
| 25000 | N | 0 |
| Bit Size (BS) | | |
| 125 | mm | 375 |
| HCAL2 | | |
| 125 | mm | 375 |
| HCAL | | |
| 125 | mm | 375 |
| GR | | |
| 0 | gAPI | 300 |

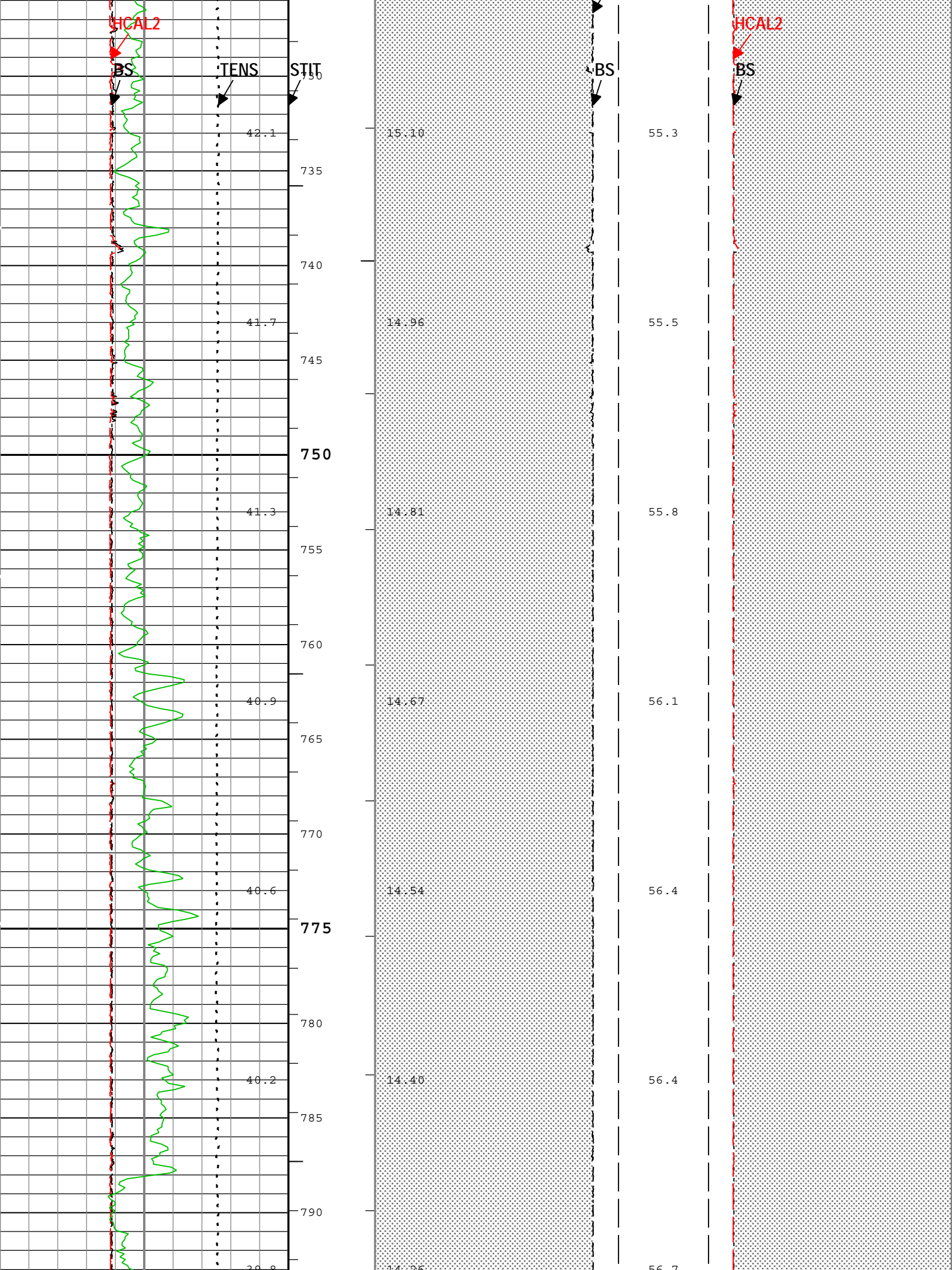
| Formation | | | Formation | | |
|-------------------------------------|----|-----|------------------------------|----|-----|
| Tight Spot | | | Tight Spot | | |
| Washout | | | Washout | | |
| Bit Size (BS) | | | Bit Size (BS) | | |
| 600 | mm | 100 | 100 | mm | 600 |
| HCAL | | | HCAL2 | | |
| 600 | mm | 100 | 100 | mm | 600 |
| Future Casing Diameter (FCD) | | | Future Casing Diameter (FCD) | | |
| 600 | mm | 100 | 100 | mm | 600 |
| Cartridge Temperature (CTEM) HGNS-H | | | | | |
| degC | | | | | |

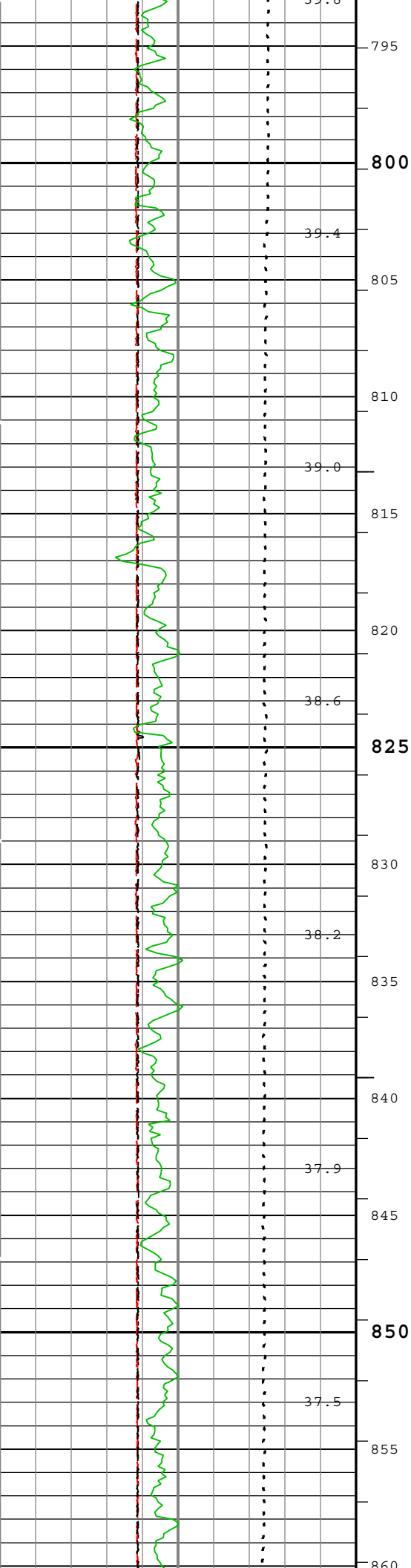
CEMENT VOLUME LOG



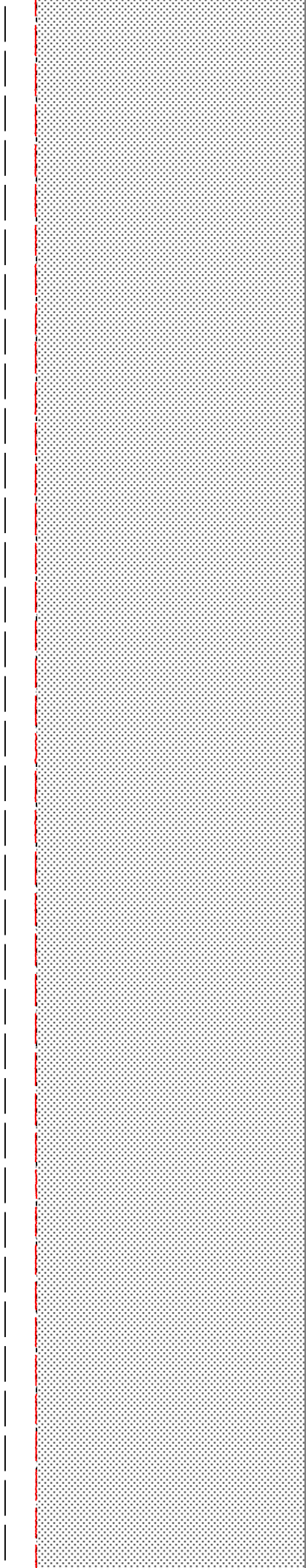


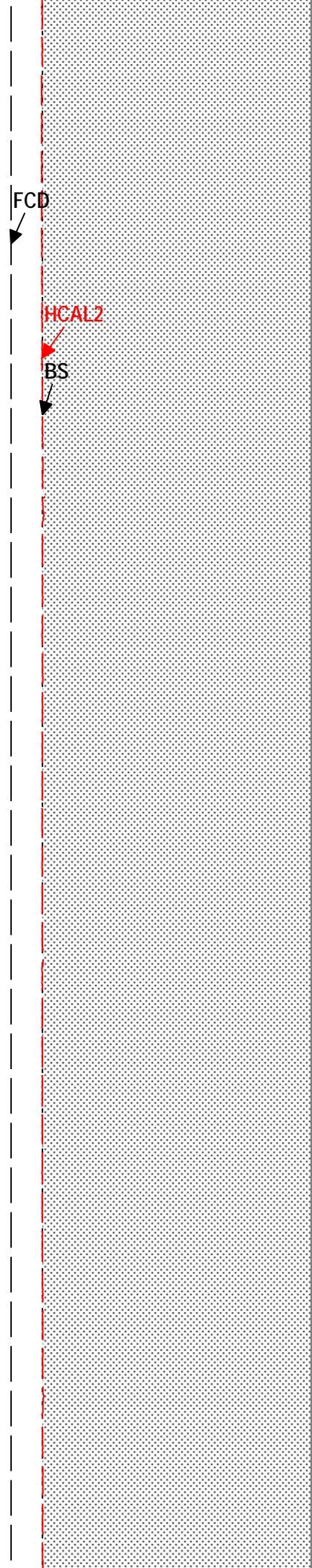
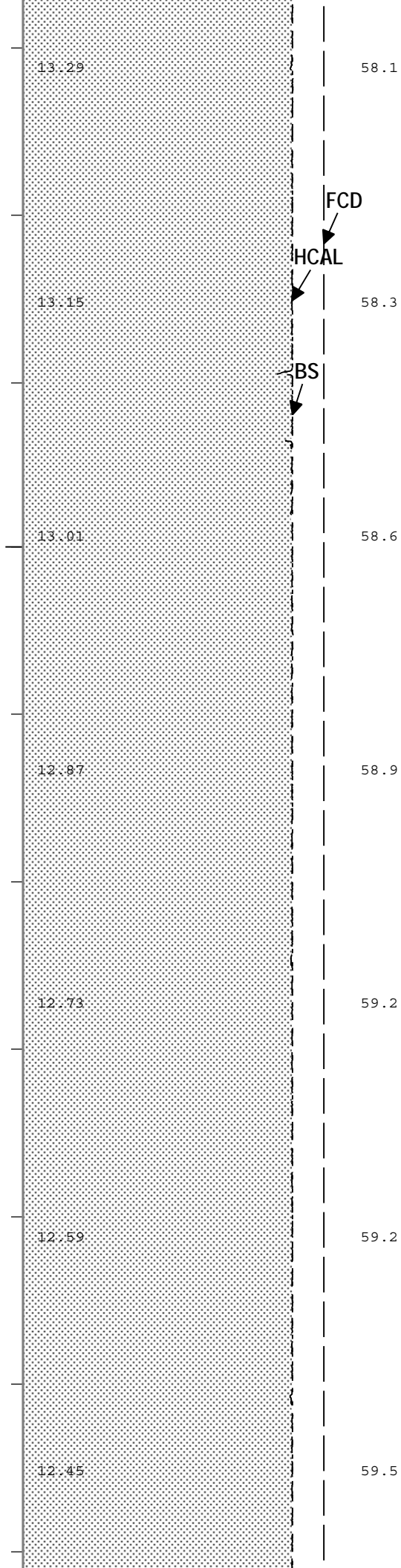
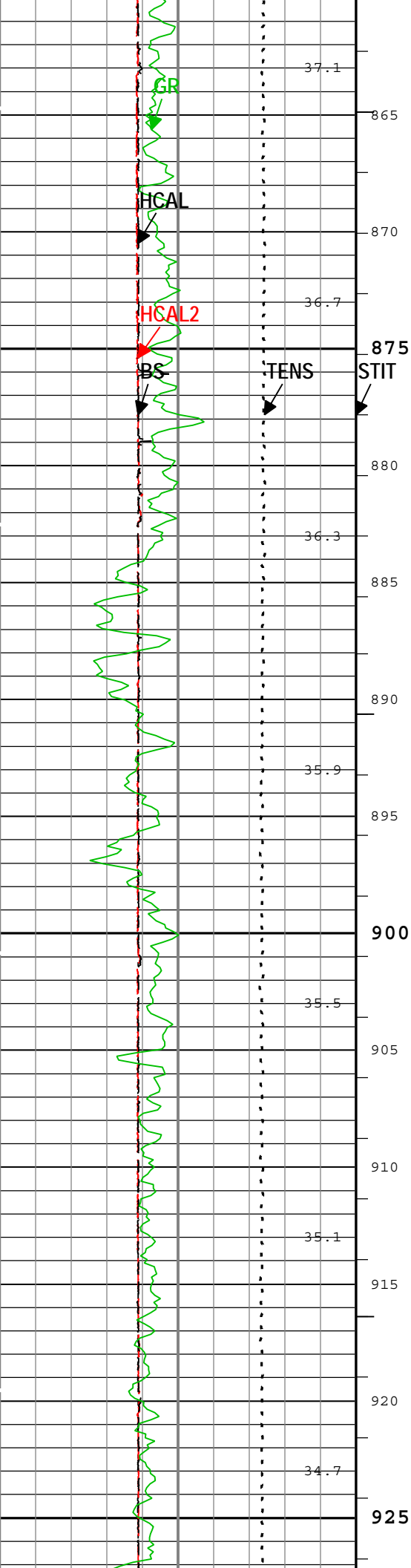


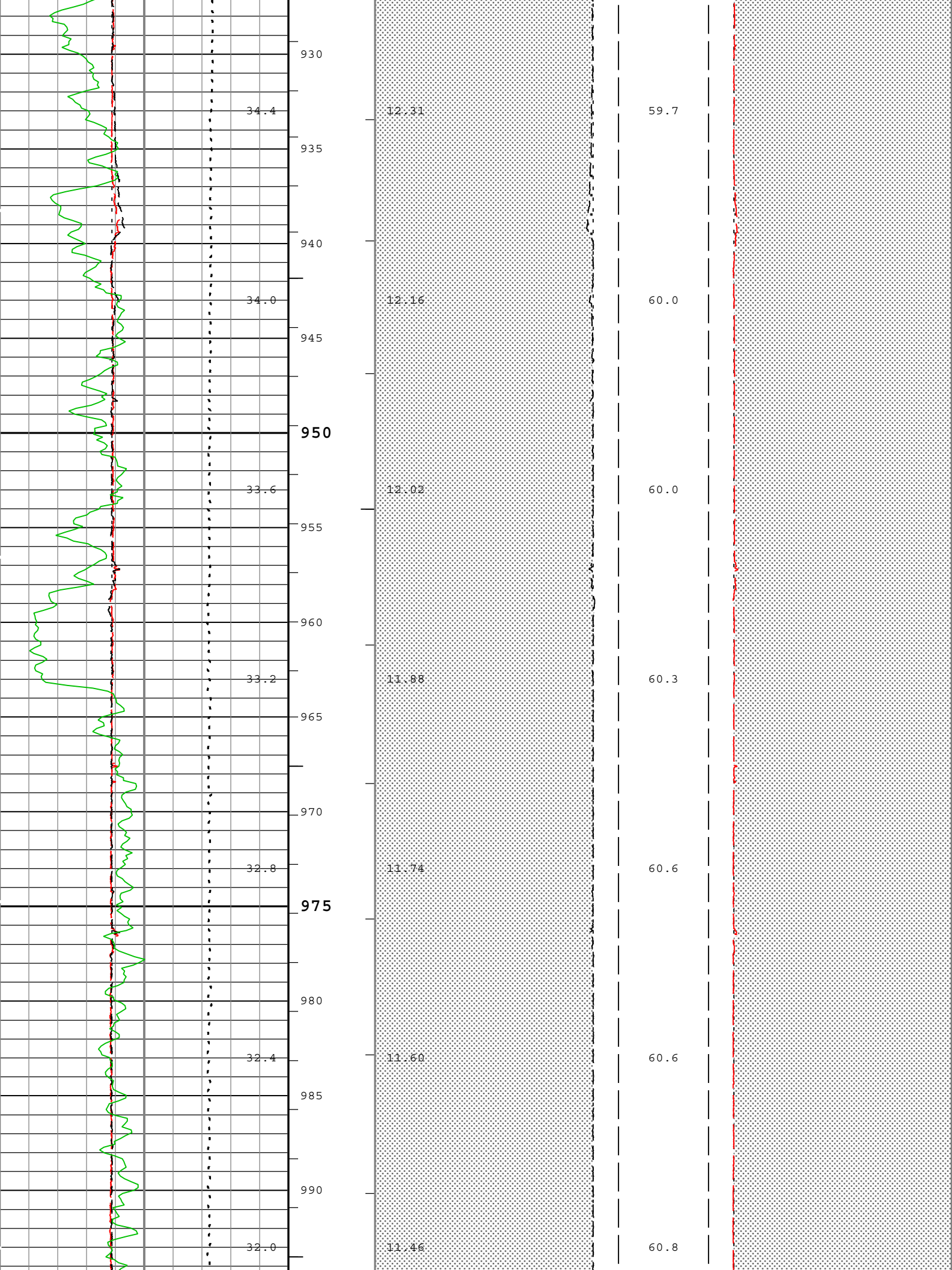


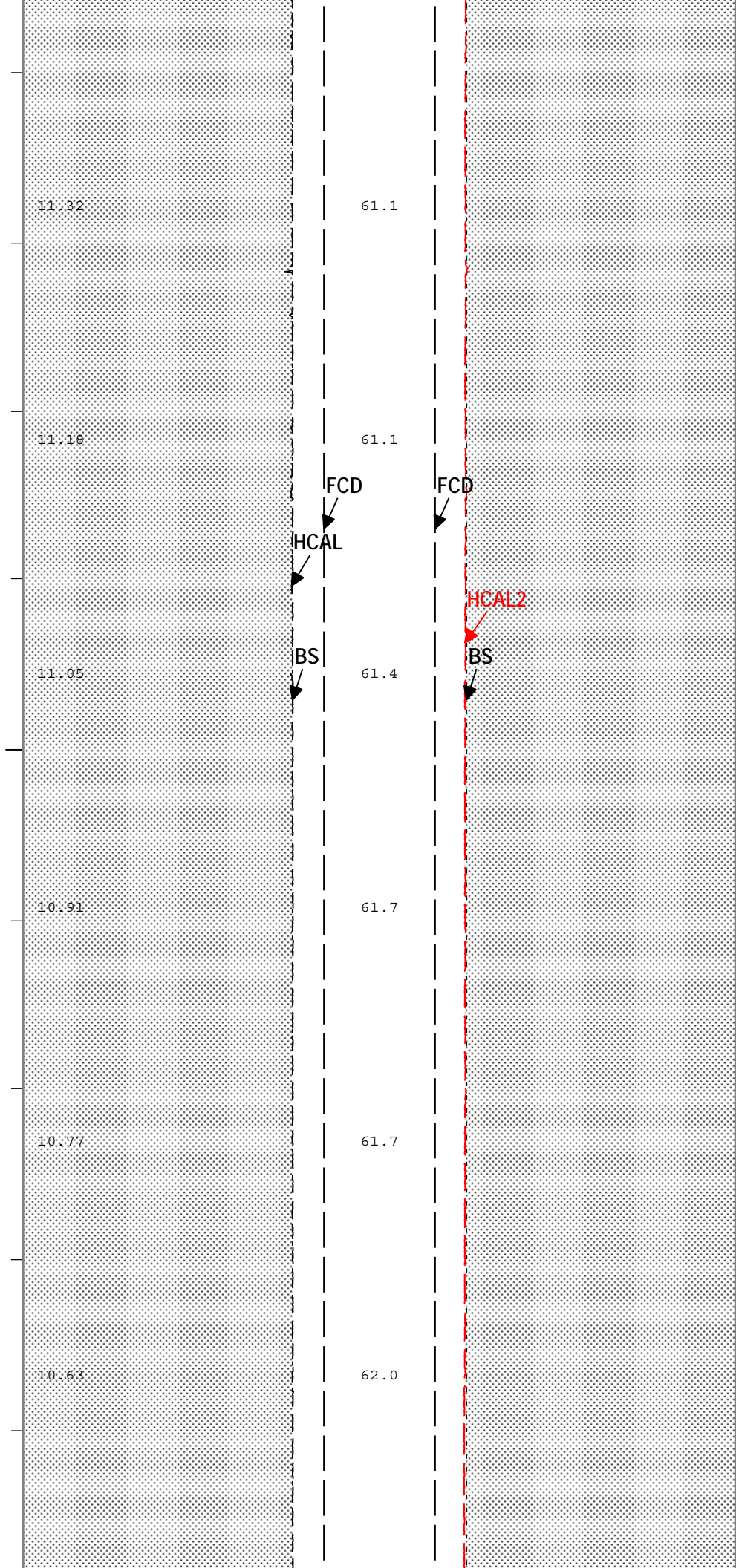
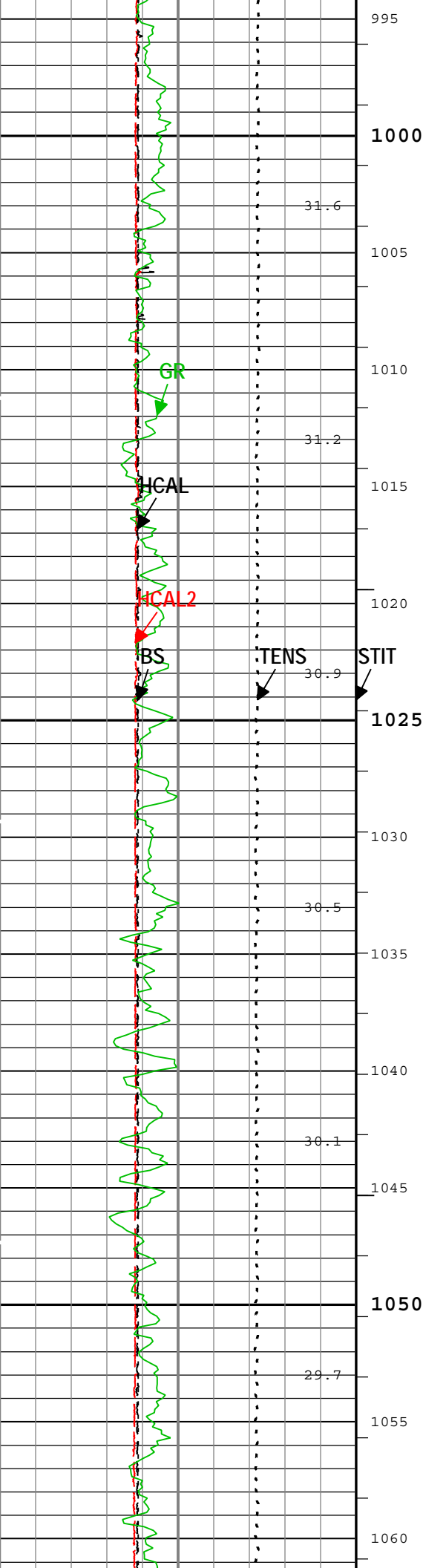


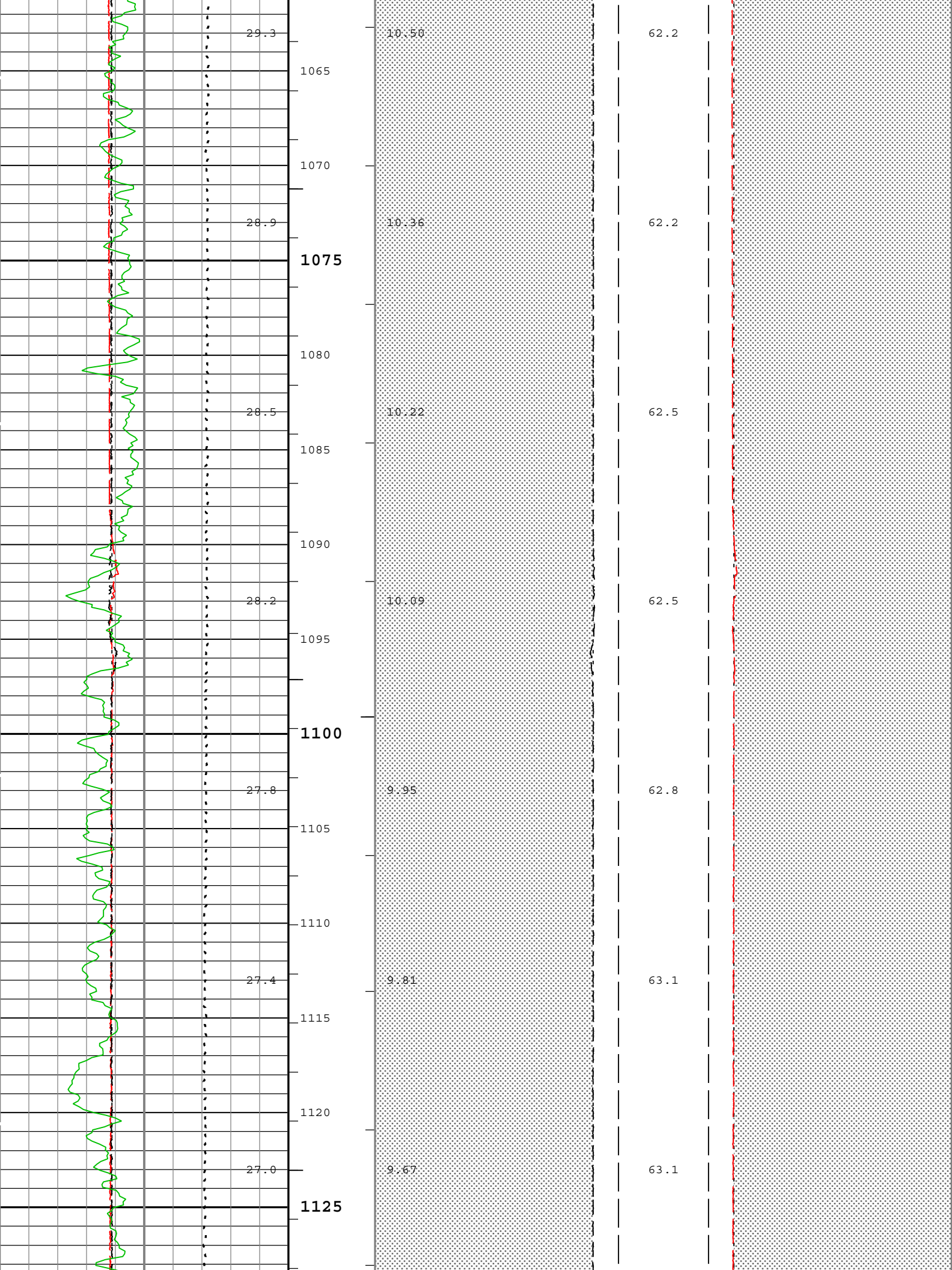
| | | |
|------|-------|------|
| 39.4 | 14.12 | 56.9 |
| 39.0 | 13.98 | 57.2 |
| 38.6 | 13.84 | 57.5 |
| 38.2 | 13.70 | 57.5 |
| 37.9 | 13.57 | 57.8 |
| 37.5 | 13.43 | 58.1 |

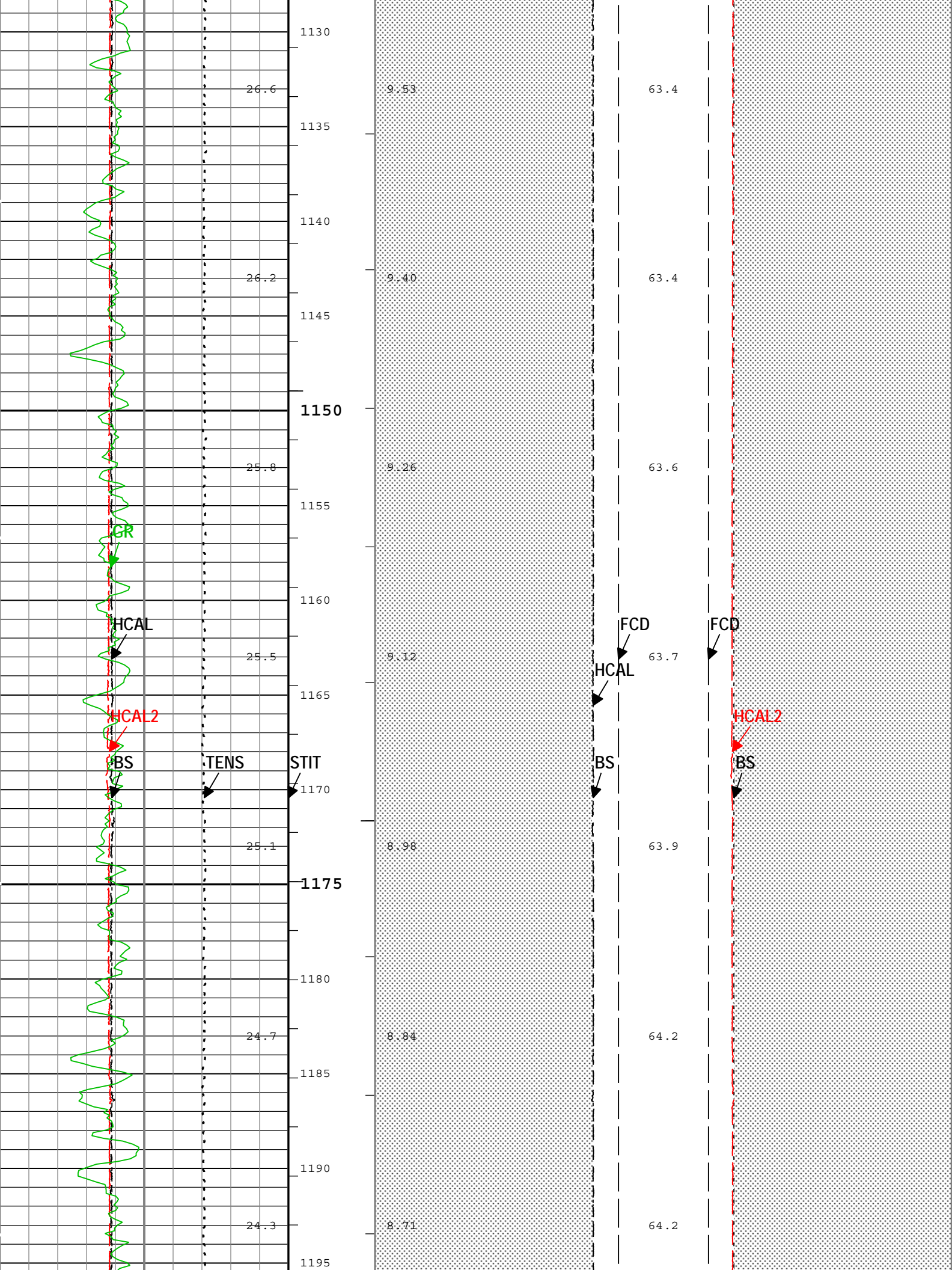


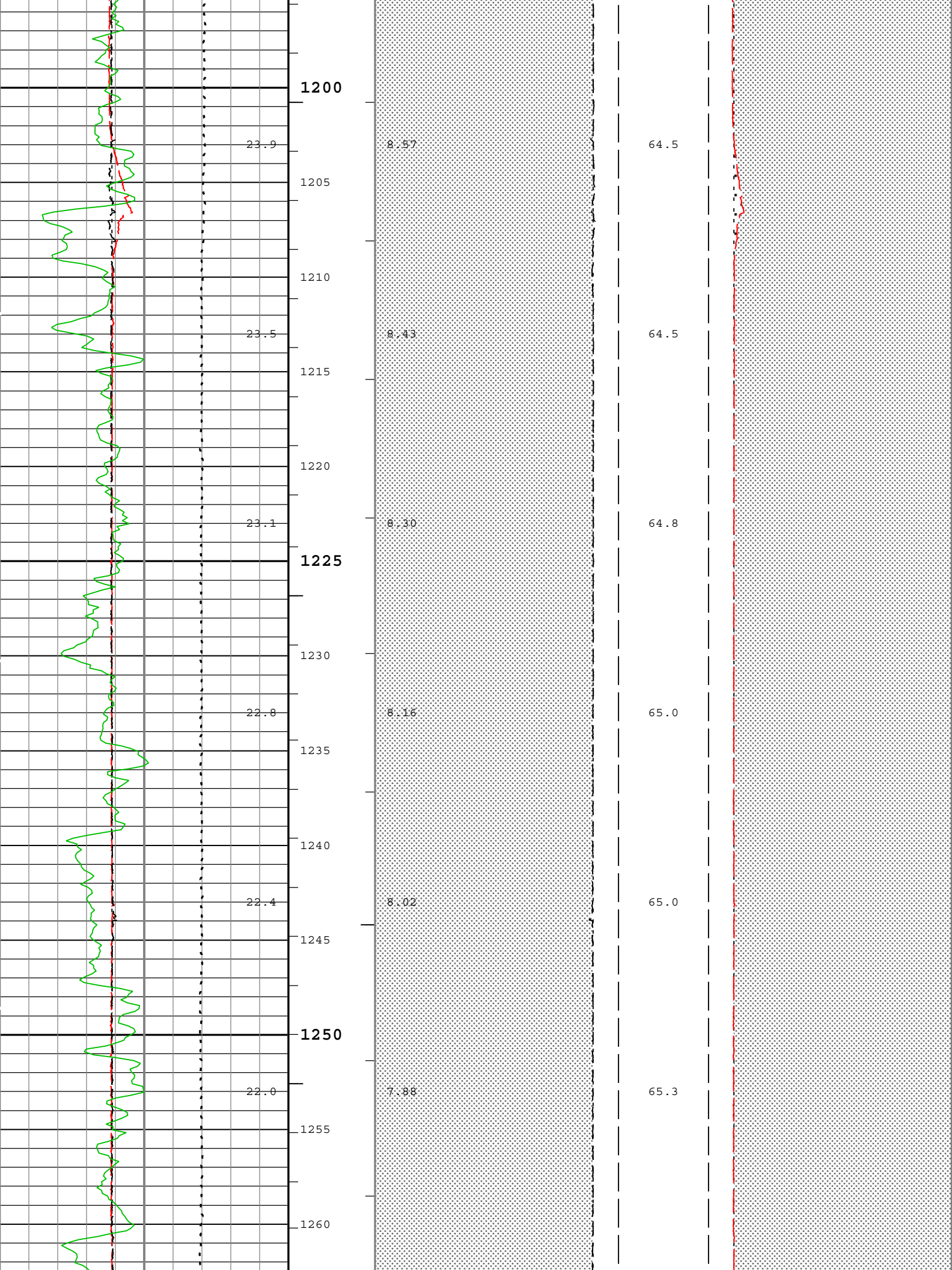


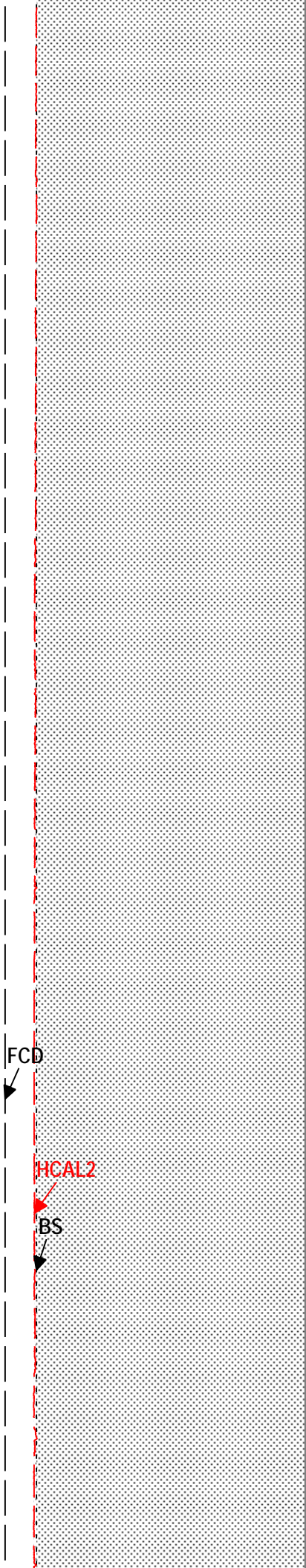
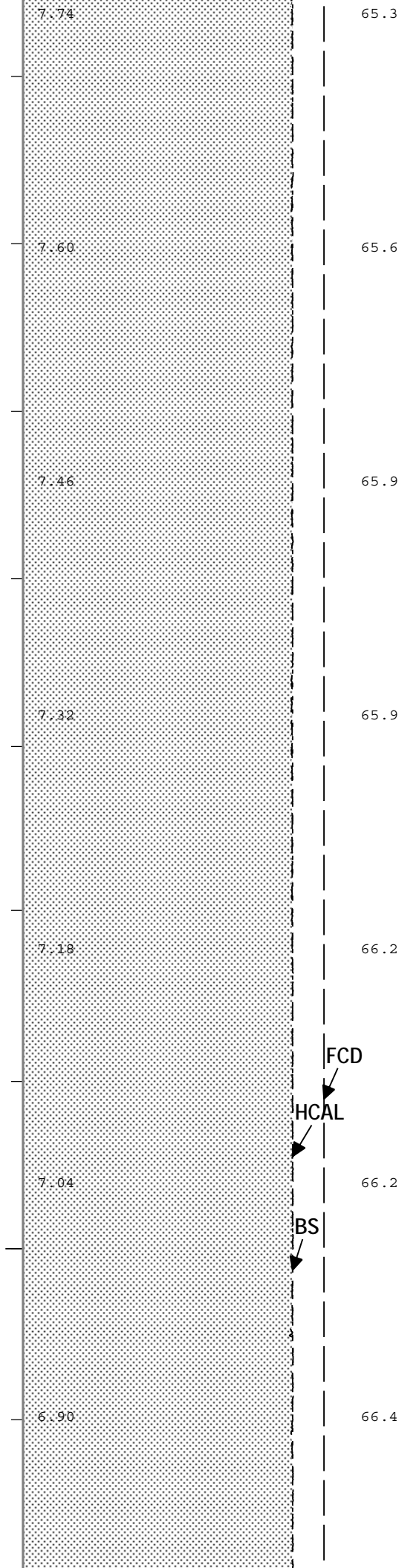
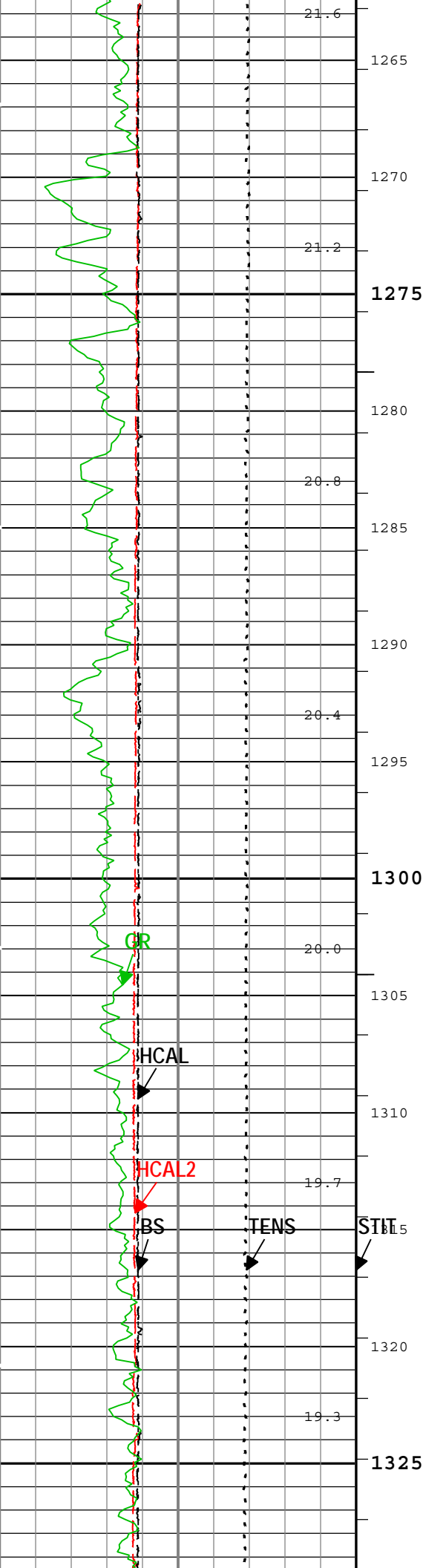


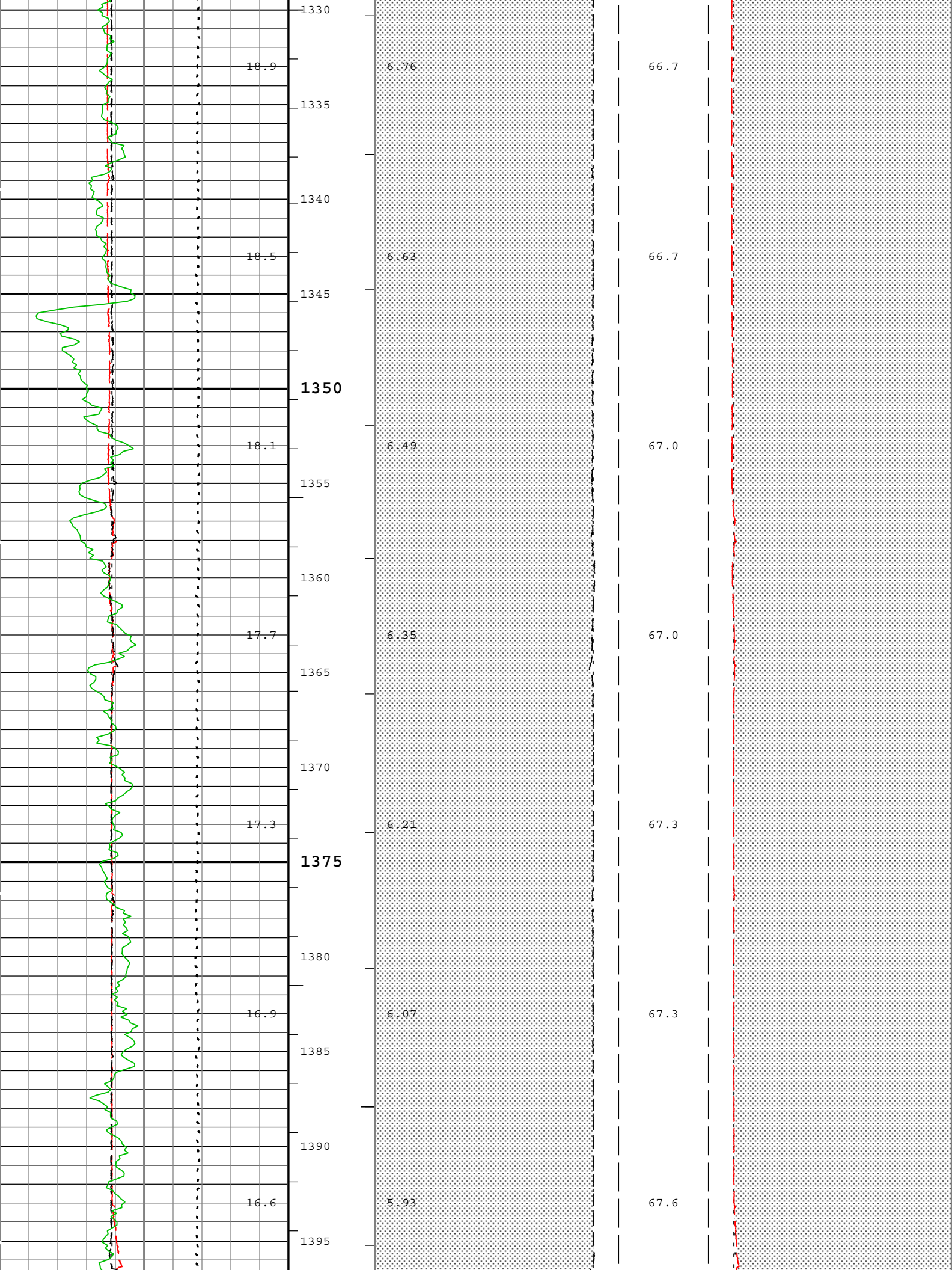


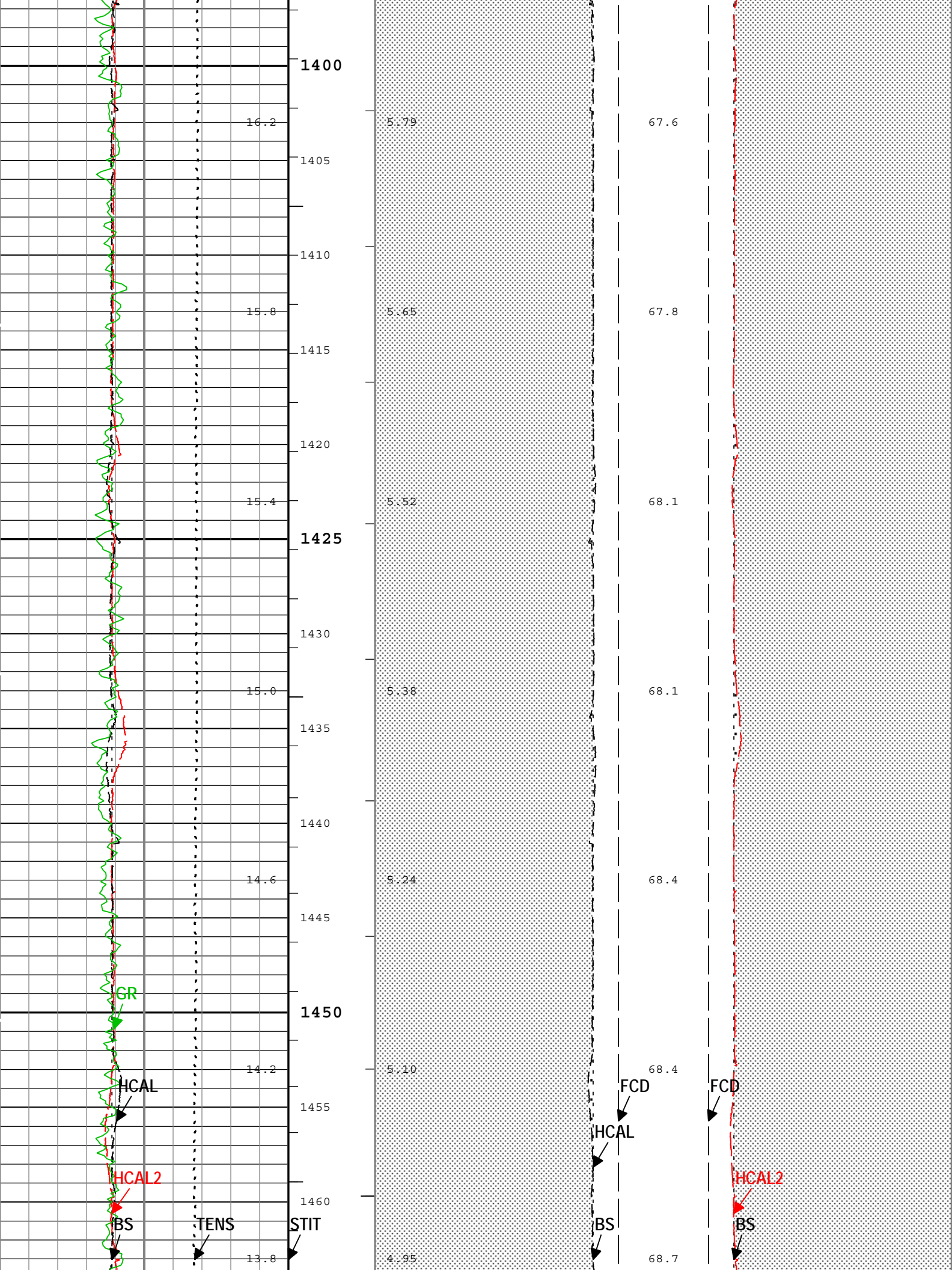


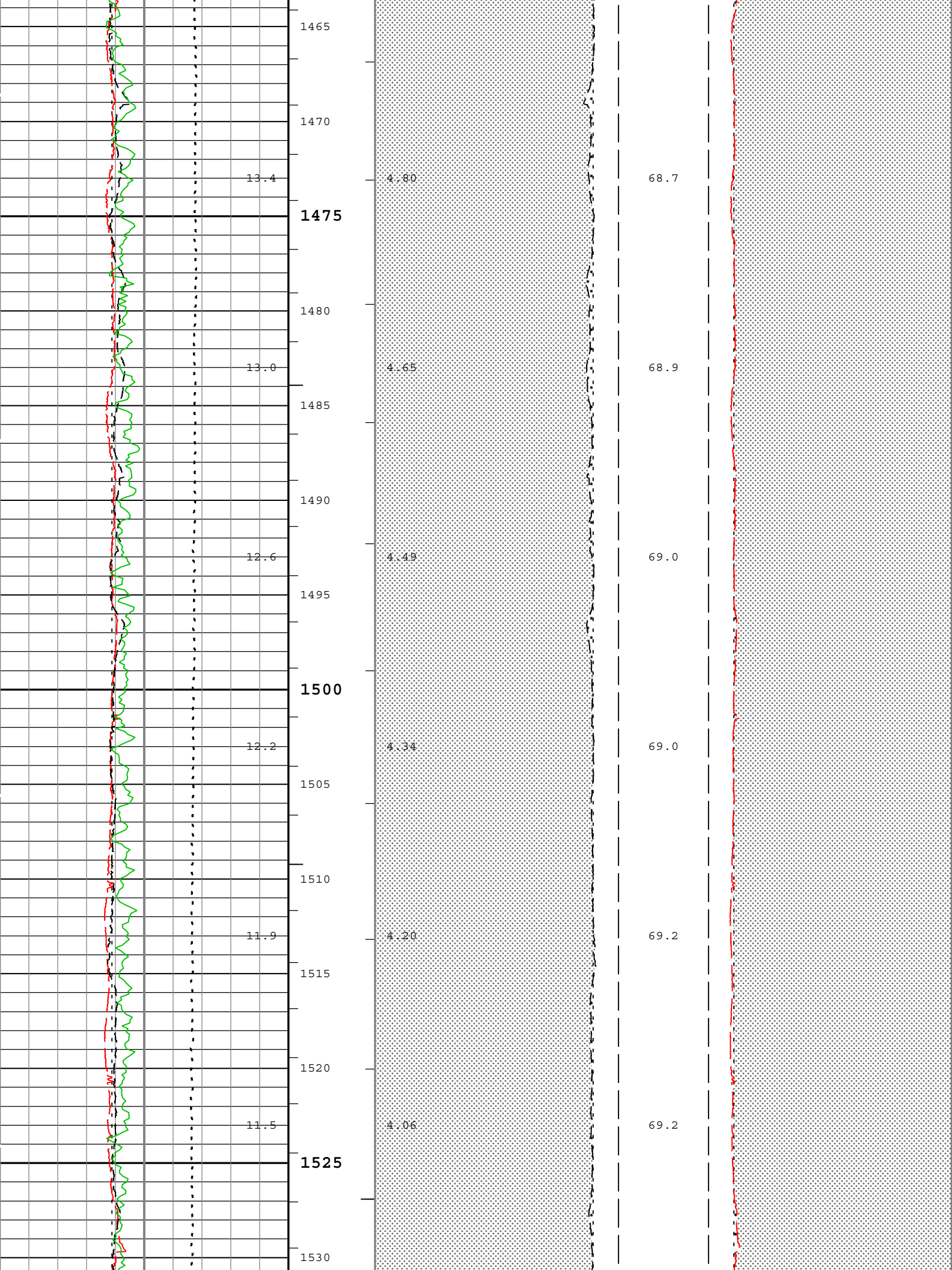


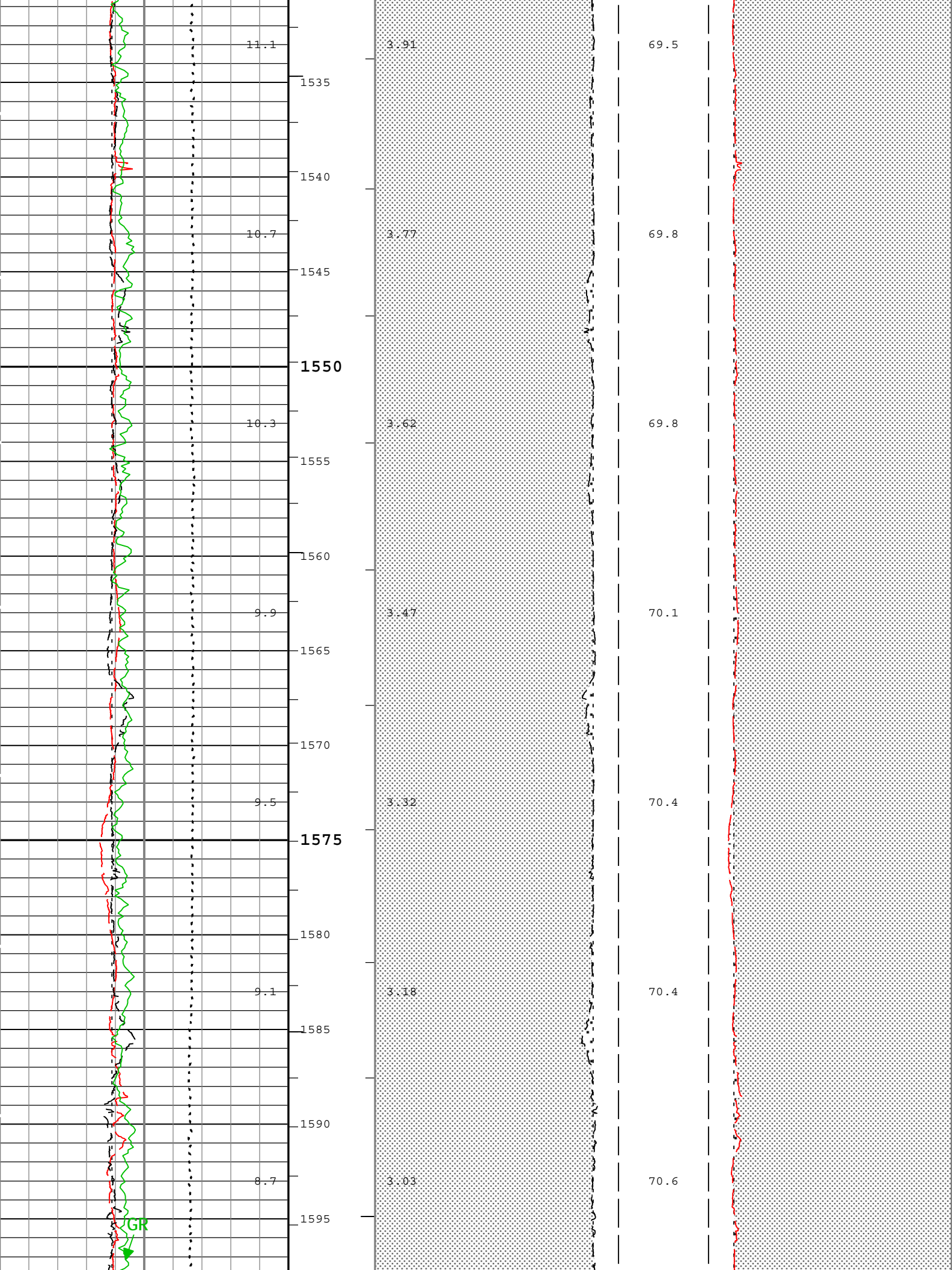


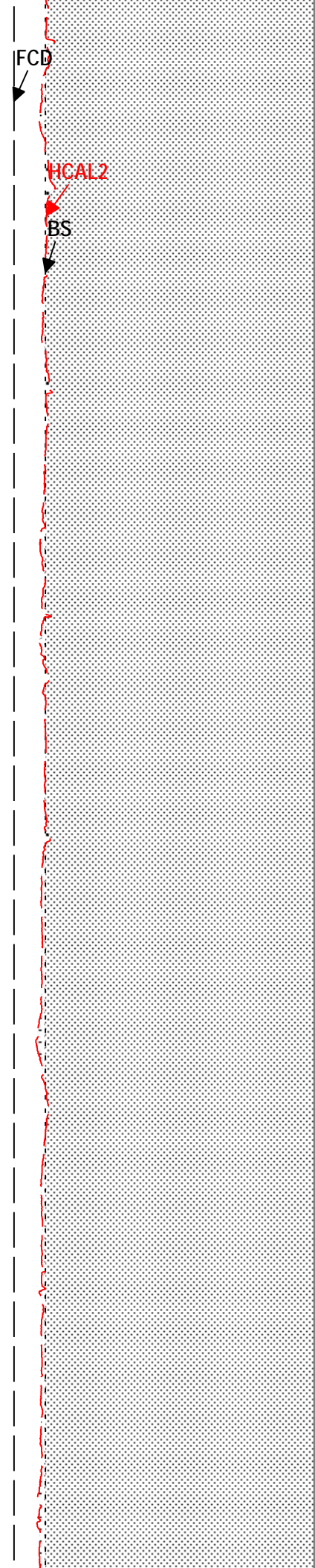
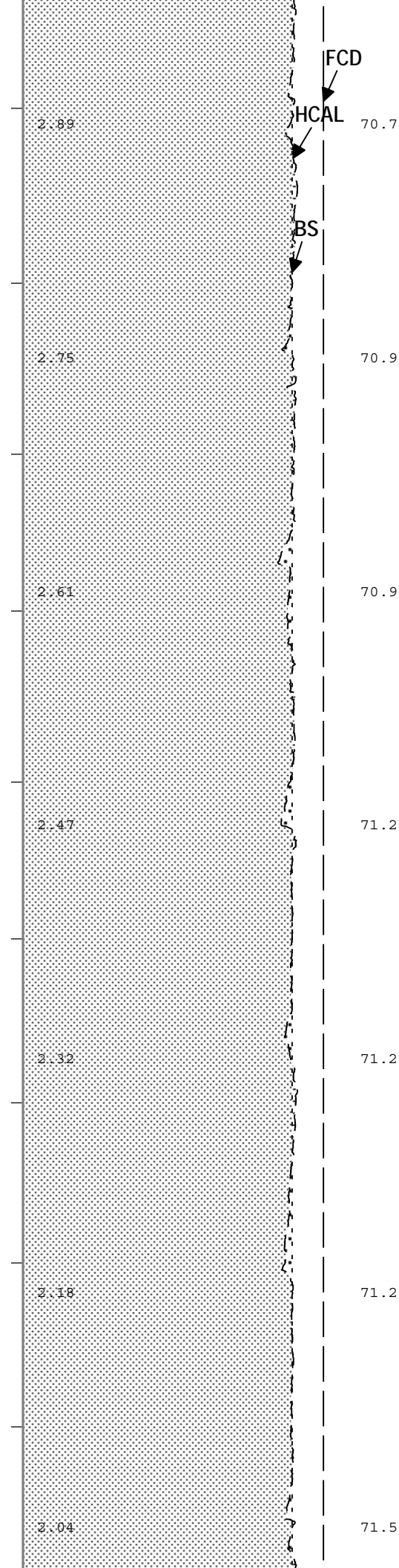
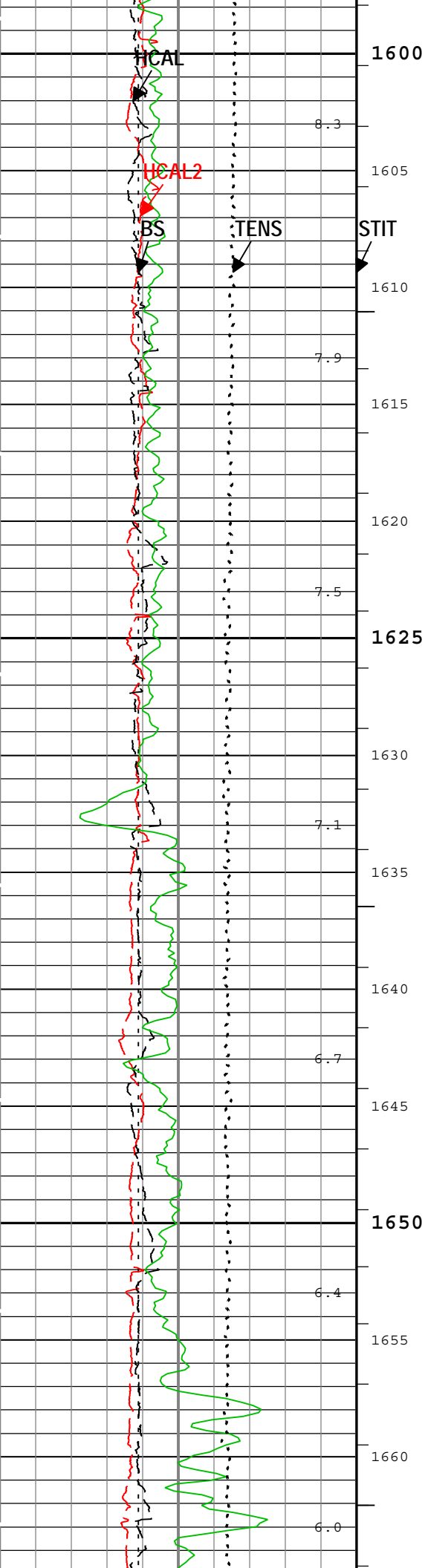


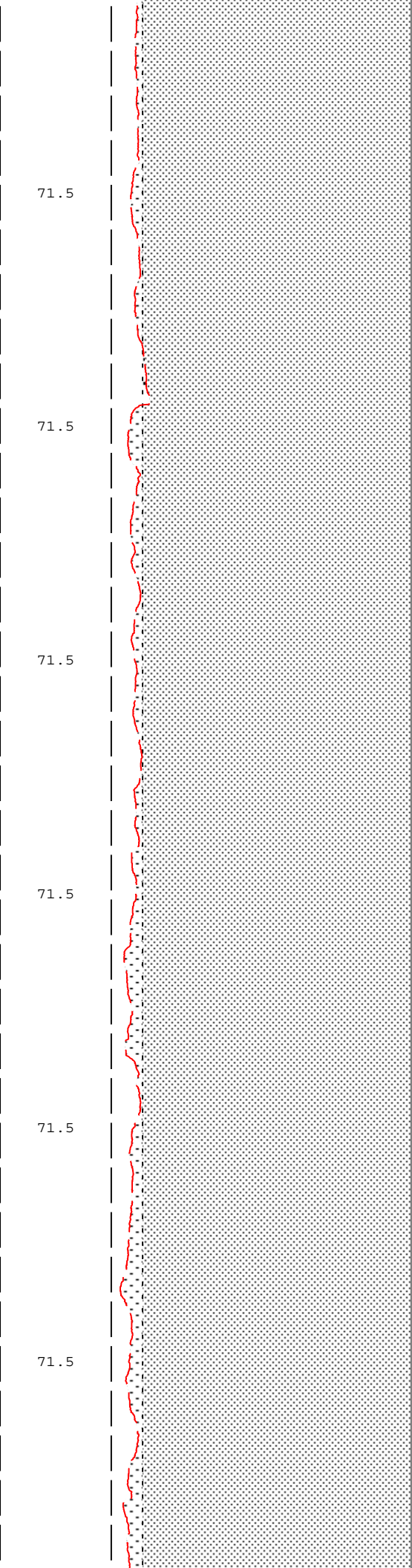
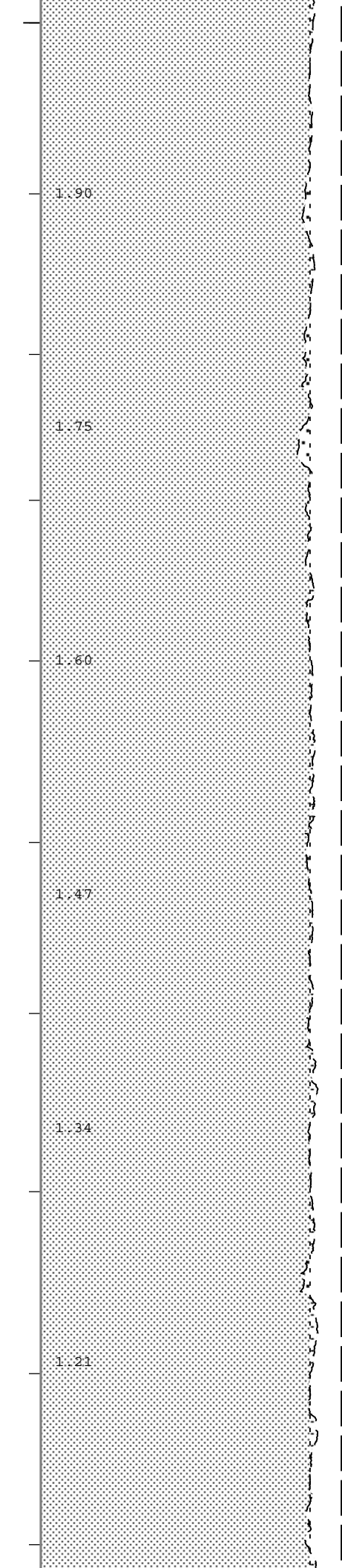
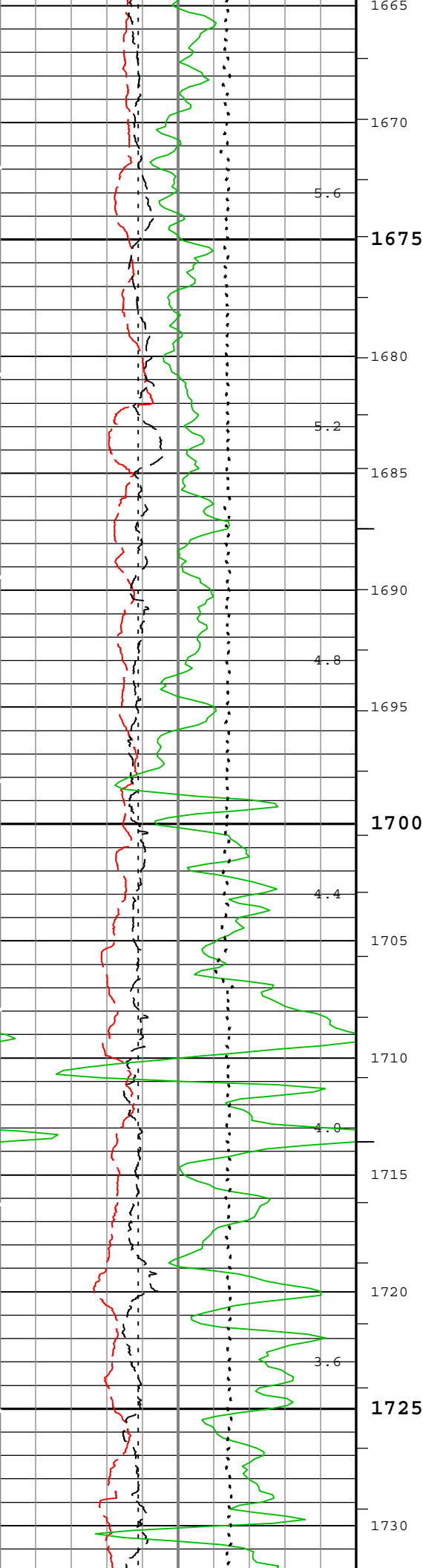


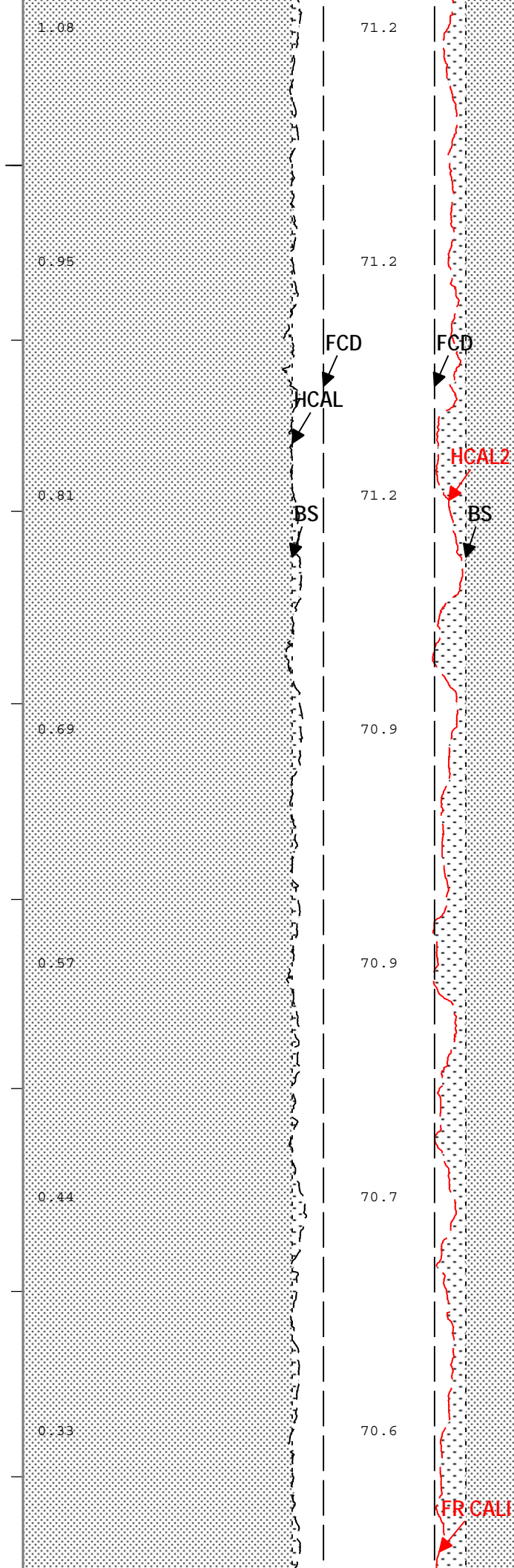
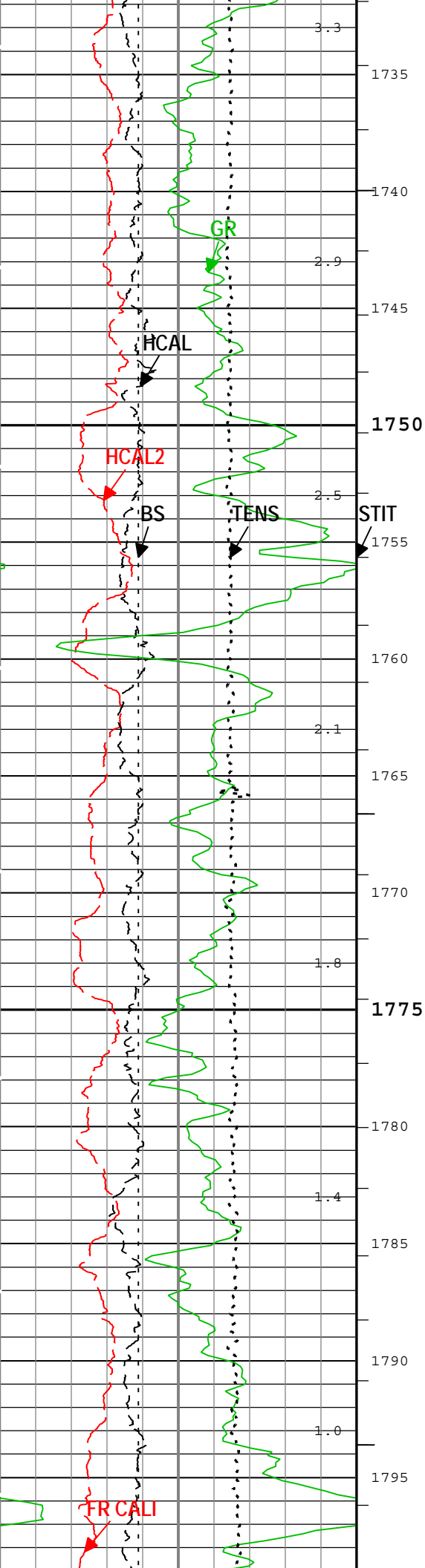


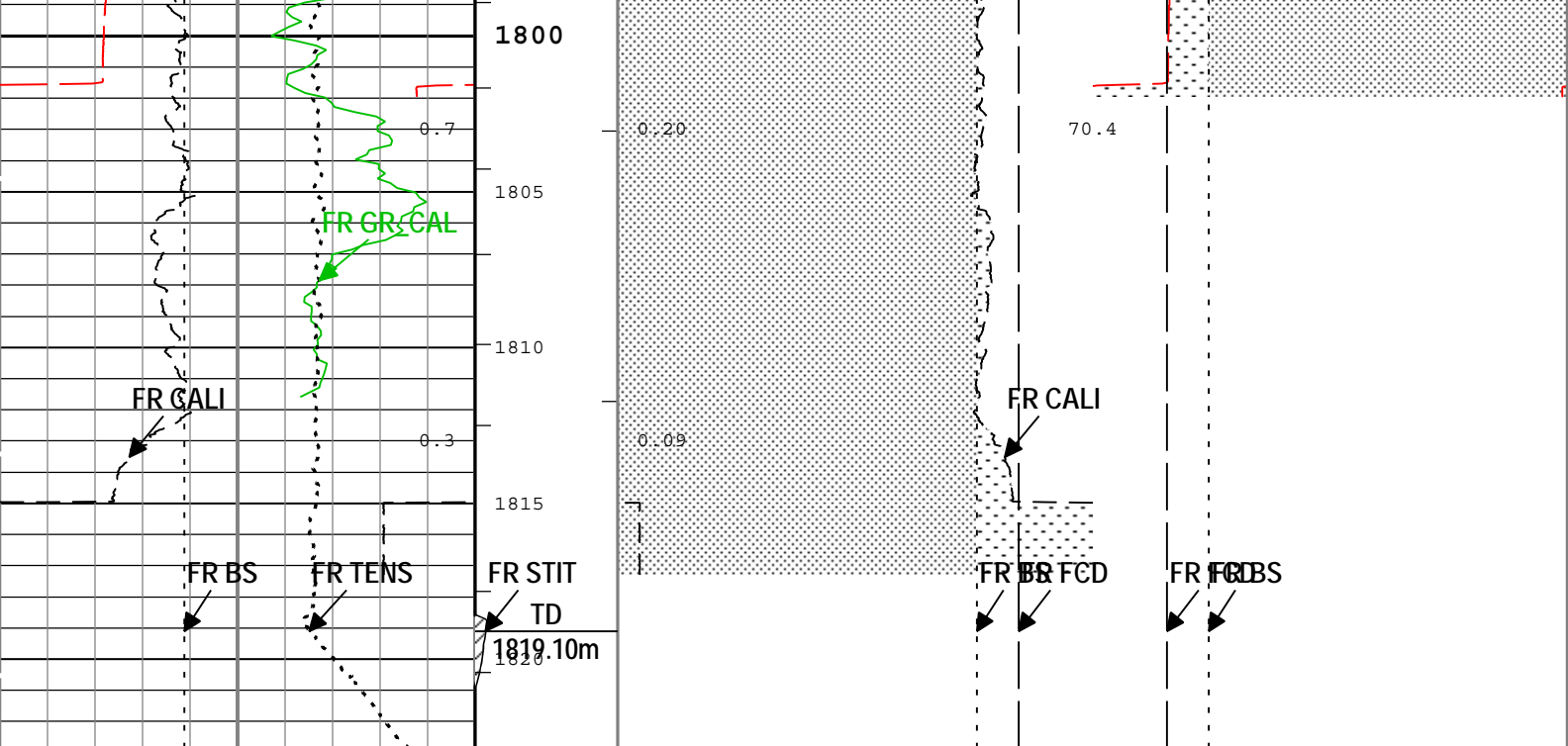












CEMENT VOLUME LOG

| | | |
|----------------------|------|-----|
| Bit Size (BS) | | |
| 125 | mm | 375 |
| HCAL2 | | |
| 125 | mm | 375 |
| HCAL | | |
| 125 | mm | 375 |
| GR | | |
| 0 | gAPI | 300 |
| Cable Tension (TENS) | | |
| 25000 | N | 0 |

| | |
|-------------------------------------|------------|
| Cartridge Temperature (CTEM) HGNS-H | |
| degC | |
| Formation | Formation |
| Tight Spot | Tight Spot |
| Washout | Washout |
| Bit Size (BS) | |
| 600 | 100 |
| mm | mm |
| HCAL | |
| 600 | 100 |
| mm | mm |
| Future Casing Diameter (FCD) | |
| 600 | 100 |
| mm | mm |

—ICV - Integrated Cement Volume every 1.00 (m3)

—IHV - Integrated Hole Volume every 0.10 (m3)

TIME_1900 - Time Marked every 60.00 (s)

—IHV - Integrated Hole Volume every 1.00 (m3)

—ICV - Integrated Cement Volume every 0.10 (m3)

Description: MCFL processing LQC for Platform Express Format: Log (CVL_HCAL_HCAL2) Index Scale: 1:240 Index Unit: m Index Type: Measured Depth Creation Date: 15-Jan-2014 01:20:20

Channel Processing Parameters

| Parameter | Description | Tool | Value | Unit |
|--------------|--|-----------------|-------------|------|
| BHS | Borehole Status (Open or Cased Hole) | Borehole | Depth Zoned | |
| BS | Bit Size | WLSESSION | Depth Zoned | mm |
| CALI_SHIFT.1 | CALI Supplementary Offset | HDRS-H | 4.4 | mm |
| CALI_SHIFT.2 | CALI Supplementary Offset | HDRS-H | 13.5 | mm |
| CBLO | Casing Bottom (Logger) | WLSESSION | 603 | m |
| CSODDRL | Casing Outer Diameter - Zoned along driller depths | WLSESSION | 244.5 | mm |
| DC_MODE | Depth Correction Mode | DepthCorrection | Real-time | |

| | | | | |
|----------------|--|-----------|-----------------------|----|
| FCID | Future Casing (Outer) Diameter | WLSESSION | 177.8 | mm |
| GCSE_DOWN_PASS | Generalized Caliper Selection for WL Log Down Passes | Borehole | BS | |
| GCSE_UP_PASS | Generalized Caliper Selection for WL Log Up Passes | Borehole | Depth Zoned | |
| HVCS | Integrated Hole Volume Caliper Selection | Borehole | Compute Area from GHD | |
| TD | Total Measured Depth | Borehole | 1819.1 | m |

| Depth Zone Parameters | | | | |
|-----------------------|-------|-------------|------------|--|
| Parameter | Value | Start (m) | Stop (m) | |
| BHS | Cased | 575 | 603 | |
| BHS | Open | 603 | 1822.88 | |
| BS | 311 | 575 | 603 | |
| BS | 222 | 603 | 1819.1 | |
| GCSE_UP_PASS | BS | 575 | 603 | |
| GCSE_UP_PASS | CALI | 603 | 1822.88 | |
| All depth are actual. | | | | |

| Tool Control Parameters | | | | |
|-------------------------|----------------------------------|-----------|--------|------|
| Parameter | Description | Tool | Value | Unit |
| HMCA_BRD_TYPE | HMCA Board Type | HGNS-H | 1 | |
| MAX_LOG_SPEED | Toolstring Maximum Logging Speed | WLSESSION | 548.64 | m/h |

| Calibration Report | | | | |
|--|--|------|-----|--|
| AIT-M (Array Induction Tool - M) Calibration - Run 1.1 | | | | |
| Primary Equipment : | | | | |
| File code for AIT-MA Sonde Tool Element | | AMIS | 129 | |
| Auxiliary Equipment : | | | | |
| AITM Rm/SP Bottom Nose | | AMRM | 129 | |

| AIT Sonde Calibration - Test Loop Gain | | | | | | | |
|--|------|----------------------|---------|-----------|--------|------------|--|
| Master (EEPROM): | | 10:28:12 31-Dec-2013 | | | | | |
| Measurement | Unit | Phase | Nominal | Low Limit | Actual | High Limit | |
| Test Loop Gain - 0 | | Master | 1.000 | 0.950 | 1.014 | 1.050 | |
| Test Loop Phase - 0 | deg | Master | 0 | -3.000 | 1.089 | 3.000 | |
| Test Loop Gain - 1 | | Master | 1.000 | 0.950 | 1.008 | 1.050 | |
| Test Loop Phase - 1 | deg | Master | 0 | -3.000 | 0.684 | 3.000 | |
| Test Loop Gain - 2 | | Master | 1.000 | 0.950 | 1.009 | 1.050 | |
| Test Loop Phase - 2 | deg | Master | 0 | -3.000 | -0.018 | 3.000 | |
| Test Loop Gain - 3 | | Master | 1.000 | 0.950 | 1.004 | 1.050 | |
| Test Loop Phase - 3 | deg | Master | 0 | -3.000 | 0.042 | 3.000 | |
| Test Loop Gain - 4 | | Master | 1.000 | 0.950 | 0.989 | 1.050 | |
| Test Loop Phase - 4 | deg | Master | 0 | -3.000 | 0.028 | 3.000 | |
| Test Loop Gain - 5 | | Master | 1.000 | 0.950 | 0.980 | 1.050 | |
| Test Loop Phase - 5 | deg | Master | 0 | -3.000 | -0.052 | 3.000 | |
| Test Loop Gain - 6 | | Master | 1.000 | 0.950 | 0.987 | 1.050 | |
| Test Loop Phase - 6 | deg | Master | 0 | -3.000 | 0.343 | 3.000 | |
| Test Loop Gain - 7 | | Master | 1.000 | 0.950 | 1.007 | 1.050 | |
| Test Loop Phase - 7 | deg | Master | 0 | -3.000 | 0.019 | 3.000 | |

| AIT Sonde Calibration - Sonde Error Correction | | | | | | | |
|--|------|----------------------|---------|-----------|---------|------------|--|
| Master (EEPROM): | | 10:28:12 31-Dec-2013 | | | | | |
| Measurement | Unit | Phase | Nominal | Low Limit | Actual | High Limit | |
| Sonde Error Correction Real - 0 | mS/m | Master | ----- | -231.000 | -80.037 | 119.000 | |
| Sonde Error Correction Quad - 0 | | Master | ----- | -2250.000 | -45.287 | 2250.000 | |
| Sonde Error Correction Real - 1 | mS/m | Master | ----- | 114.000 | 162.947 | 204.000 | |
| Sonde Error Correction Quad - 1 | | Master | ----- | -625.000 | 140.227 | 625.000 | |
| Sonde Error Correction Real - 2 | mS/m | Master | ----- | 66.000 | 107.663 | 156.000 | |
| Sonde Error Correction Quad - 2 | | Master | ----- | -350.000 | -65.097 | 350.000 | |
| Sonde Error Correction Real - 3 | mS/m | Master | ----- | 39.000 | 59.198 | 89.000 | |
| Sonde Error Correction Quad - 3 | | Master | ----- | -250.000 | 32.514 | 250.000 | |
| Sonde Error Correction Real - 4 | mS/m | Master | ----- | 15.000 | 25.111 | 35.000 | |
| Sonde Error Correction Quad - 4 | | Master | ----- | -25.000 | 12.522 | 25.000 | |

| | | | | | | | |
|--------------------|-----|---------------|------|---------|----------|----------|--|
| | | Before | ---- | 1.176 | 1.943 | 2.744 | |
| | | After | ---- | ---- | ---- | ---- | |
| | | Before-Master | ---- | ---- | -0.001 | ---- | |
| | | After-Before | ---- | ---- | ---- | ---- | |
| Thru Cal Phase - 5 | deg | Master | ---- | 122.000 | 171.861 | -118.000 | |
| | | Before | ---- | 122.000 | -179.552 | -118.000 | |
| | | After | ---- | ---- | ---- | ---- | |
| | | Before-Master | ---- | ---- | -351.413 | ---- | |
| | | After-Before | ---- | ---- | ---- | ---- | |
| Thru Cal Mag - 6 | V | Master | ---- | 1.176 | 1.941 | 2.744 | |
| | | Before | ---- | 1.176 | 1.940 | 2.744 | |
| | | After | ---- | ---- | ---- | ---- | |
| | | Before-Master | ---- | ---- | -0.001 | ---- | |
| | | After-Before | ---- | ---- | ---- | ---- | |
| Thru Cal Phase - 6 | deg | Master | ---- | 121.000 | 171.902 | -119.000 | |
| | | Before | ---- | 121.000 | -179.513 | -119.000 | |
| | | After | ---- | ---- | ---- | ---- | |
| | | Before-Master | ---- | ---- | -351.415 | ---- | |
| | | After-Before | ---- | ---- | ---- | ---- | |
| Thru Cal Mag - 7 | V | Master | ---- | 0.846 | 1.395 | 1.974 | |
| | | Before | ---- | 0.846 | 1.395 | 1.974 | |
| | | After | ---- | ---- | ---- | ---- | |
| | | Before-Master | ---- | ---- | 0.000 | ---- | |
| | | After-Before | ---- | ---- | ---- | ---- | |
| Thru Cal Phase - 7 | deg | Master | ---- | 115.000 | 171.159 | -125.000 | |
| | | Before | ---- | 115.000 | 179.812 | -125.000 | |
| | | After | ---- | ---- | ---- | ---- | |
| | | Before-Master | ---- | ---- | 8.653 | ---- | |
| | | After-Before | ---- | ---- | ---- | ---- | |
| SPA Zero | mV | Master | | -50.000 | -0.122 | 50.000 | |
| | | Before | | -50.000 | -0.133 | 50.000 | |
| | | After | ---- | ---- | ---- | ---- | |
| | | Before-Master | ---- | ---- | -0.011 | ---- | |
| | | After-Before | ---- | ---- | ---- | ---- | |
| SPA Plus | mV | Master | | 941.000 | 990.432 | 1040.000 | |
| | | Before | | 941.000 | 990.105 | 1040.000 | |
| | | After | ---- | ---- | ---- | ---- | |
| | | Before-Master | ---- | ---- | -0.327 | ---- | |
| | | After-Before | ---- | ---- | ---- | ---- | |
| Temperature Zero | V | Master | | -0.050 | 0.000 | 0.050 | |
| | | Before | | -0.050 | 0.000 | 0.050 | |
| | | After | ---- | ---- | ---- | ---- | |
| | | Before-Master | ---- | ---- | 0.000 | ---- | |
| | | After-Before | ---- | ---- | ---- | ---- | |
| Temperature Plus | V | Master | | 0.870 | 0.917 | 0.960 | |
| | | Before | | 0.870 | 0.917 | 0.960 | |
| | | After | ---- | ---- | ---- | ---- | |
| | | Before-Master | ---- | ---- | 0.000 | ---- | |
| | | After-Before | ---- | ---- | ---- | ---- | |

| | | |
|--|---------------|-------|
| HDRS-H[1] (HILT Density and Rxo Sonde, 150 degC) Calibration - Run 1.1 | | |
| Primary Equipment : | | |
| HILT High-Resolution Control Cartridge, 150 degC | HRCC-H | 880 |
| HILT Resistivity Gamma-Ray Density Device, 150 degC | HRGD-H | 4796 |
| Auxiliary Equipment : | | |
| HRDD Backscatter Detector | Backscatter | |
| HRDD Long Spacing Detector | Long Spacing | 28679 |
| HRDD Short Spacing Detector | Short Spacing | |
| Cesium 137 Gamma-Ray Logging Source | GSR-J | 5285 |
| HILT High-Resolution Control Cartridge, 150 degC | HRCC-H | 880 |
| HRMS, 125 degC, 10 kpsi | HRMS-B | 894 |
| Calibration Parameter : | | |
| Small Ring Size (Caliper Calibration Small Ring) | 203.2 | |

HDRS Caliper Calibration - Caliper Accumulations

Before (Measured): 06:27:32 14-Jan-2014

| Measurement | Unit | Phase | Nominal | Low Limit | Actual | High Limit | |
|-------------|------|--------|---------|-----------|--------|------------|--|
| Small Ring | mm | Before | 203.2 | 152.4 | 199.0 | 254.0 | |
| Large Ring | mm | Before | 304.8 | 228.6 | 292.0 | 381.0 | |

HDRS Density Calibration - Inversion Results

Master (EEPROM): 12:27:24 24-Dec-2013

| Measurement | Unit | Phase | Nominal | Low Limit | Actual | High Limit | |
|---------------|-------|--------|---------|-----------|--------|------------|--|
| Rho Aluminum | kg/m3 | Master | 2596 | 2586 | 2600 | 2606 | |
| Rho Magnesium | kg/m3 | Master | 1686 | 1676 | 1690 | 1696 | |
| Pe Aluminum | | Master | 2.570 | 2.470 | 2.579 | 2.670 | |
| Pe Magnesium | | Master | 2.650 | 2.550 | 2.603 | 2.750 | |

HDRS Density Calibration - Deviation Summary

Master (EEPROM): 12:27:24 24-Dec-2013

| Measurement | Unit | Phase | Nominal | Low Limit | Actual | High Limit | |
|----------------------|------|--------|---------|-----------|--------|------------|--|
| BS Average Deviation | % | Master | 0 | -0.6000 | 0.2068 | 0.6000 | |
| BS Max Deviation | % | Master | 0 | -1.6000 | 0.6397 | 1.6000 | |
| SS Average Deviation | % | Master | 0 | -1.0000 | 0.3839 | 1.0000 | |
| SS Max Deviation | % | Master | 0 | -2.5000 | 1.5922 | 2.5000 | |
| LS Average Deviation | % | Master | 0 | -1.5000 | 0.8683 | 1.5000 | |
| LS Max Deviation | % | Master | 0 | -3.5000 | 2.7525 | 3.5000 | |

HDRS Density Calibration - Background Summary

Master (EEPROM): 12:27:24 24-Dec-2013

Before (Measured):

06:28:18 14-Jan-2014

| Measurement | Unit | Phase | Nominal | Low Limit | Actual | High Limit | |
|-----------------|------|---------------|---------|-----------|---------|------------|--|
| BS Window Ratio | | Master | 1.0000 | | 0.7364 | | |
| | | Before | 0.7364 | 0.6996 | 0.7419 | 0.7732 | |
| | | Before-Master | ----- | ----- | 0.0055 | ----- | |
| BS Window Sum | 1/s | Master | 1 | | 26467 | | |
| | | Before | 26467 | 25143 | 26655 | 27790 | |
| | | Before-Master | ----- | ----- | 188 | ----- | |
| SS Window Ratio | | Master | 1.0000 | | 0.4815 | | |
| | | Before | 0.4815 | 0.4574 | 0.4769 | 0.5056 | |
| | | Before-Master | ----- | ----- | -0.0046 | ----- | |
| SS Window Sum | 1/s | Master | 1 | | 11894 | | |
| | | Before | 11894 | 11300 | 11857 | 12489 | |
| | | Before-Master | ----- | ----- | -37 | ----- | |
| LS Window Ratio | | Master | 1.0000 | | 0.2994 | | |
| | | Before | 0.2994 | 0.2844 | 0.2975 | 0.3144 | |
| | | Before-Master | ----- | ----- | -0.0019 | ----- | |
| LS Window Sum | 1/s | Master | 1 | | 1353 | | |
| | | Before | 1353 | 1285 | 1341 | 1421 | |
| | | Before-Master | ----- | ----- | -12 | ----- | |

HDRS Density Calibration - Photo-multiplier High Voltages

Master (EEPROM): 12:27:24 24-Dec-2013

Before (Measured):

06:28:18 14-Jan-2014

| Measurement | Unit | Phase | Nominal | Low Limit | Actual | High Limit | |
|--------------------|------|---------------|---------|-----------|--------|------------|--|
| BS PM High Voltage | V | Master | | 1000 | 1339 | 2400 | |
| | | Before | | 1000 | 1329 | 2400 | |
| | | Before-Master | ----- | -100 | -10 | 100 | |
| SS PM High Voltage | V | Master | | 1000 | 1361 | 2400 | |
| | | Before | | 1000 | 1398 | 2400 | |
| | | Before-Master | ----- | -100 | 37 | 100 | |
| LS PM High Voltage | V | Master | | 1000 | 1321 | 2400 | |
| | | Before | | 1000 | 1343 | 2400 | |
| | | Before-Master | ----- | -100 | 22 | 100 | |

HDRS Density Calibration - Crystal Quality Resolutions

Master (EEPROM): 12:27:24 24-Dec-2013

Before (Measured):

06:28:18 14-Jan-2014

| Measurement | Unit | Phase | Nominal | Low Limit | Actual | High Limit | |
|-----------------------|------|---------------|---------|-----------|--------|------------|--|
| BS Crystal Resolution | % | Master | | 5.00 | 10.60 | 25.00 | |
| | | Before | | 5.00 | 10.44 | 25.00 | |
| | | Before-Master | ----- | -1.00 | -0.16 | 1.00 | |
| SS Crystal Resolution | % | Master | | 5.00 | 9.82 | 20.00 | |
| | | Before | | 5.00 | 10.00 | 20.00 | |
| | | Before-Master | ----- | -1.00 | -0.18 | 1.00 | |

| | | | | | | |
|-----------------------|---|---------------|-------|-------|-------|-------|
| | | Before | 5.00 | 10.29 | 20.00 | |
| | | Before-Master | ----- | -1.00 | 0.47 | 1.00 |
| LS Crystal Resolution | % | Master | | 5.00 | 8.22 | 20.00 |
| | | Before | | 5.00 | 8.07 | 20.00 |
| | | Before-Master | ----- | -1.00 | -0.15 | 1.00 |

HDRS MCFL Calibration - MCFL Accumulations

Before (Measured): 06:24:53 14-Jan-2014

| Measurement | Unit | Phase | Nominal | Low Limit | Actual | High Limit | |
|---------------------|-------|--------|---------|-----------|--------|------------|--|
| Main Resistivity | ohm.m | Before | 3875 | 3565 | 3839 | 4185 | |
| Deep Resistivity | ohm.m | Before | 3830 | 3524 | 3808 | 4136 | |
| Shallow Resistivity | ohm.m | Before | 3830 | 3524 | 3810 | 4136 | |

HGNS-H (HILT Gamma-Ray and Neutron Sonde, 150 degC) Calibration - Run 1.1

| | | | |
|-------------------------|--|---------|------|
| Primary Equipment : | HILT Gamma-Ray and Neutron Sonde, 150 degC | HGNS-H | 4792 |
| Auxiliary Equipment : | HGNS Accelerometer, 150 degC | HACCZ-H | 5469 |
| | AmBe Neutron Logging Source | NSR-F | 2516 |
| Calibration Parameter : | Water Temperature | | |
| | Housing Size | | |
| | JIG-BKG (Jig minus background reference) | 165 | |

HGNS Accelerometer Calibration - Accelerometer Accumulations

Before (Measured): 17:31:34 14-Jan-2014

| Measurement | Unit | Phase | Nominal | Low Limit | Actual | High Limit | |
|-------------------------|------|--------|---------|-----------|--------|------------|--|
| AZ Vertical Measurement | m/s2 | Before | 9.81 | 9.61 | 9.81 | 10.01 | |

HGNS Accelerometer EEPROM - Accelerometer EEPROM Read

Master (EEPROM): 00:00:00 15-Sep-2006

| Measurement | Unit | Phase | Nominal | Low Limit | Actual | High Limit | |
|-------------------------------------|------|--------|---------|-----------|----------|------------|--|
| Accelerometer Manufacturer | | Master | | | QAT_160 | | |
| Accelerometer Reference Temperature | degC | Master | | -1.0 | 25.0 | 50.0 | |
| Accelerometer Coefficients - 0 | | Master | ----- | ----- | 7241.000 | ----- | |
| Accelerometer Coefficients - 1 | | Master | ----- | ----- | 5.473 | ----- | |
| Accelerometer Coefficients - 2 | | Master | ----- | ----- | -0.012 | ----- | |
| Accelerometer Coefficients - 3 | | Master | ----- | ----- | 0.000 | ----- | |
| Accelerometer Coefficients - 4 | | Master | ----- | ----- | 2.735 | ----- | |
| Accelerometer Coefficients - 5 | | Master | ----- | ----- | 0.000 | ----- | |
| Accelerometer Coefficients - 6 | | Master | ----- | ----- | 0.000 | ----- | |
| Accelerometer Coefficients - 7 | | Master | ----- | ----- | 0.000 | ----- | |
| Accelerometer Coefficients - 8 | | Master | ----- | ----- | 300.400 | ----- | |
| Accelerometer Coefficients - 9 | | Master | ----- | ----- | 0.984 | ----- | |

HGNS Neutron Calibration - HGNS Neutron Accumulations

Master (EEPROM): 09:05:16 31-Dec-2013 Before (Measured): 06:25:14 14-Jan-2014 After:

| Measurement | Unit | Phase | Nominal | Low Limit | Actual | High Limit | |
|-----------------------|------|---------------|---------|-----------|--------|------------|--|
| Near Zero Measurement | 1/s | Master | 0 | 5.0 | 27.0 | 40.0 | |
| | | Before | 0 | 5.0 | 27.3 | 40.0 | |
| | | After | ----- | ----- | ----- | ----- | |
| | | Before-Master | ----- | -4.1 | 0.3 | 4.1 | |
| | | After-Before | ----- | ----- | ----- | ----- | |
| Far Zero Measurement | 1/s | Master | 0 | 5.0 | 26.1 | 40.0 | |
| | | Before | 0 | 5.0 | 28.5 | 40.0 | |
| | | After | ----- | ----- | ----- | ----- | |
| | | Before-Master | ----- | -3.9 | 2.4 | 3.9 | |
| | | After-Before | ----- | ----- | ----- | ----- | |
| Near Plus Measurement | 1/s | Master | 6031.0 | 4700.0 | 5851.0 | 6900.0 | |
| | | Before | ----- | ----- | ----- | ----- | |
| | | After | ----- | ----- | ----- | ----- | |
| | | Before-Master | ----- | ----- | ----- | ----- | |
| | | After-Before | ----- | ----- | ----- | ----- | |

| | | | | | | | |
|---------------------------------|-----|--|--|--|--|--|---|
| Far Plus Measurement | 1/s | Master Before After Before-Master After-Before | 2793.0 ----- ----- ----- ----- | 1900.0 ----- ----- ----- ----- | 2454.0 ----- ----- ----- ----- | 2900.0 ----- ----- ----- ----- | <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> |
| Near Corrected Plus Measurement | 1/s | Master Before After Before-Master After-Before | ----- ----- ----- ----- ----- | 4700.0 ----- ----- ----- ----- | 5865.0 ----- ----- ----- ----- | 6900.0 ----- ----- ----- ----- | <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> |
| Far Corrected Plus Measurement | 1/s | Master Before After Before-Master After-Before | ----- ----- ----- ----- ----- | 1900.0 ----- ----- ----- ----- | 2454.0 ----- ----- ----- ----- | 2900.0 ----- ----- ----- ----- | <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> |

HGNS Gamma-Ray Calibration - Gamma-Ray Accumulations

| Before (Measured): | | 06:27:38 14-Jan-2014 | | After: | | | |
|----------------------|------|---------------------------------|-------------------------|-------------------------|----------------------------|-------------------------|---|
| Measurement | Unit | Phase | Nominal | Low Limit | Actual | High Limit | <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> |
| RGR Zero Measurement | gAPI | Before After After-Before | 30.0 ----- ----- | 0 ----- ----- | 33.9 ----- ----- | 120.0 ----- ----- | <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> |
| RGR Plus Measurement | gAPI | Before After After-Before | 185.4 ----- ----- | 157.1 ----- ----- | 159.9 NOT DONE ----- | 206.3 ----- ----- | <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> |
| GR Calibration Gain | | Before After After-Before | 0.89 ----- ----- | 0.80 ----- ----- | 1.03 ----- ----- | 1.05 ----- ----- | <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> |

DSLT-H (Digitizing Sonic Logging Tool - H) Calibration - Run 1.1

| | | | | | | | |
|--|--|-------|--|------|--|--|--|
| Primary Equipment : | | | | | | | |
| Sonic Logging Sonde E supports 3'-5'BHC DT and CBL/VDL | | SLS-E | | 2047 | | | |

CBL Normalization - CBL Accumulations

| Master: | | | | | | | |
|------------------------------|------|--------|---------|-----------|--------|------------|---|
| Measurement | Unit | Phase | Nominal | Low Limit | Actual | High Limit | <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> |
| Upper Far Amplitude - 0 | | Master | ----- | ----- | ----- | ----- | <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> |
| Upper Near Raw Amplitude - 0 | mV | Master | ----- | ----- | ----- | ----- | <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> |
| Lower Far Amplitude - 0 | | Master | ----- | ----- | ----- | ----- | <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> |
| Lower Near Raw Amplitude - 0 | mV | Master | ----- | ----- | ----- | ----- | <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> |

CBL Normalization - CBL/VDL Coefficients

| Master: | | | | | | | |
|---|------|--------|---------|-----------|----------|------------|---|
| Measurement | Unit | Phase | Nominal | Low Limit | Actual | High Limit | <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> |
| CBL Correction Factor for UT | | Master | 3.500 | 2.700 | NOT DONE | 4.300 | <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> |
| CBL Correction Factor for LT | | Master | 2.500 | 1.700 | NOT DONE | 4.300 | <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> |
| VDL Ratio between UT and LT for CBLB Mode | | Master | 1.000 | | NOT DONE | | <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> |

CBL Free Pipe Adjustment - Free Pipe Measurement

| Before: | | | | | | | |
|------------------------------------|------|--------|---------|-----------|--------|------------|---|
| Measurement | Unit | Phase | Nominal | Low Limit | Actual | High Limit | <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> |
| CBL Amplitude - 0 | mV | Before | ----- | ----- | ----- | ----- | <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> |
| CBL Reference Amplitude (CBRA) - 0 | mV | Before | ----- | ----- | ----- | ----- | <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> |
| Measurement Depth - 0 | m | Before | ----- | ----- | ----- | ----- | <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> |

CBL Free Pipe Adjustment - CBL Amplitude Coefficient

| Before: | | | | | | | |
|-----------------------------|------|--------|---------|-----------|----------|------------|---|
| Measurement | Unit | Phase | Nominal | Low Limit | Actual | High Limit | <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> |
| CBL Adjustment Factor | | Before | 1.000 | 0.200 | NOT DONE | 5.000 | <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> |
| Depth of Before Calibration | ft | Before | | | NOT DONE | | <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> |

HDRS-H[2] (HILT Density and Rxo Sonde, 150 degC) Calibration - Run 1.1

| | | | | | | | |
|---|--|--------|--|------|--|--|--|
| Primary Equipment : | | | | | | | |
| HILT High-Resolution Control Cartridge, 150 degC | | HRCC-H | | | | | |
| HILT Resistivity Gamma-Ray Density Device, 150 degC | | HRGD-H | | 3914 | | | |

| | | | |
|--|---------------|-------|--|
| Auxiliary Equipment : | | | |
| HRDD Backscatter Detector | Backscatter | | |
| HRDD Long Spacing Detector | Long Spacing | 28710 | |
| HRDD Short Spacing Detector | Short Spacing | 27760 | |
| Cesium 137 Gamma-Ray Logging Source | GSR-J | 5310 | |
| HILT High-Resolution Control Cartridge, 150 degC | HRCC-H | | |
| HILT High-Resolution Mechanical Sonde, 150 degC | HRMS-H | 3875 | |
| Calibration Parameter : | | | |
| Small Ring Size (Caliper Calibration Small Ring) | 203.2 | | |
| Large Ring Size (Caliper Calibration Large Ring) | 304.8 | | |

HDRS Caliper Calibration - Caliper Accumulations

| Before (Measured): | | 06:29:21 14-Jan-2014 | | | | | |
|--------------------|------|----------------------|---------|-----------|--------|------------|--|
| Measurement | Unit | Phase | Nominal | Low Limit | Actual | High Limit | |
| Small Ring | mm | Before | 203.2 | 152.4 | 204.6 | 254.0 | |
| Large Ring | mm | Before | 304.8 | 228.6 | 313.3 | 381.0 | |

HDRS Density Calibration - Inversion Results

| Master (EEPROM): | | 10:28:40 24-Dec-2013 | | | | | |
|------------------|-------|----------------------|---------|-----------|--------|------------|--|
| Measurement | Unit | Phase | Nominal | Low Limit | Actual | High Limit | |
| Rho Aluminum | kg/m3 | Master | 2596 | 2586 | 2598 | 2606 | |
| Rho Magnesium | kg/m3 | Master | 1686 | 1676 | 1690 | 1696 | |
| Pe Aluminum | | Master | 2.570 | 2.470 | 2.568 | 2.670 | |
| Pe Magnesium | | Master | 2.650 | 2.550 | 2.615 | 2.750 | |

HDRS Density Calibration - Deviation Summary

| Master (EEPROM): | | 10:28:40 24-Dec-2013 | | | | | |
|----------------------|------|----------------------|---------|-----------|--------|------------|--|
| Measurement | Unit | Phase | Nominal | Low Limit | Actual | High Limit | |
| BS Average Deviation | % | Master | 0 | -0.6000 | 0.2310 | 0.6000 | |
| BS Max Deviation | % | Master | 0 | -1.6000 | 0.8128 | 1.6000 | |
| SS Average Deviation | % | Master | 0 | -1.0000 | 0.6214 | 1.0000 | |
| SS Max Deviation | % | Master | 0 | -2.5000 | 1.9703 | 2.5000 | |
| LS Average Deviation | % | Master | 0 | -1.5000 | 0.3753 | 1.5000 | |
| LS Max Deviation | % | Master | 0 | -3.5000 | 1.3653 | 3.5000 | |

HDRS Density Calibration - Background Summary

| Master (EEPROM): | | 10:28:40 24-Dec-2013 | | Before (Measured): 14:51:08 09-Jan-2014 Expired by 4 days | | | |
|------------------|------|----------------------|---------|---|---------|------------|--|
| Measurement | Unit | Phase | Nominal | Low Limit | Actual | High Limit | |
| BS Window Ratio | | Master | 1.0000 | | 0.7406 | | |
| | | Before | 0.7406 | 0.7036 | 0.7452 | 0.7776 | |
| | | Before-Master | ----- | ----- | 0.0046 | ----- | |
| BS Window Sum | 1/s | Master | 1 | | 23979 | | |
| | | Before | 23979 | 22780 | 24136 | 25178 | |
| | | Before-Master | ----- | ----- | 157 | ----- | |
| SS Window Ratio | | Master | 1.0000 | | 0.4809 | | |
| | | Before | 0.4809 | 0.4569 | 0.4768 | 0.5050 | |
| | | Before-Master | ----- | ----- | -0.0041 | ----- | |
| SS Window Sum | 1/s | Master | 1 | | 10589 | | |
| | | Before | 10589 | 10060 | 10583 | 11119 | |
| | | Before-Master | ----- | ----- | -6 | ----- | |
| LS Window Ratio | | Master | 1.0000 | | 0.3042 | | |
| | | Before | 0.3042 | 0.2890 | 0.2988 | 0.3194 | |
| | | Before-Master | ----- | ----- | -0.0054 | ----- | |
| LS Window Sum | 1/s | Master | 1 | | 1192 | | |
| | | Before | 1192 | 1132 | 1180 | 1251 | |
| | | Before-Master | ----- | ----- | -12 | ----- | |

HDRS Density Calibration - Photo-multiplier High Voltages

| Master (EEPROM): | | 10:28:40 24-Dec-2013 | | Before (Measured): 14:51:08 09-Jan-2014 Expired by 4 days | | | |
|--------------------|------|----------------------|---------|---|--------|------------|--|
| Measurement | Unit | Phase | Nominal | Low Limit | Actual | High Limit | |
| BS PM High Voltage | V | Master | | 1000 | 1448 | 2400 | |
| | | Before | | 1000 | 1447 | 2400 | |
| | | Before-Master | ----- | -100 | -1 | 100 | |
| SS PM High Voltage | V | Master | | 1000 | 1477 | 2400 | |
| | | Before | | 1000 | 1506 | 2400 | |

TTTEN Master Calibration -TTTEN Master Calibration

| | | | | | | | |
|---|------|--------|---------|-----------|----------|------------|--|
| Measurement | Unit | Phase | Nominal | Low Limit | Actual | High Limit | |
| HTEN Shop Gain | | Master | 1.000 | 0.800 | NOT DONE | 4.500 | |
| HTEN Shop Offset | lbf | Master | 0 | -4448.222 | NOT DONE | 4448.222 | |
| HTEN Before Calibration - HTEN Before Calibration | | | | | | | |
| Before: | | | | | | | |
| Measurement | Unit | Phase | Nominal | Low Limit | Actual | High Limit | |
| RHTE Zero Measurement - 0 | lbf | Before | ---- | ---- | ---- | ---- | |
| RHTE Plus Measurement - 0 | lbf | Before | ---- | ---- | ---- | ---- | |
| HTEN Gain - 0 | | Before | ---- | ---- | ---- | ---- | |
| HTEN Offset - 0 | lbf | Before | ---- | ---- | ---- | ---- | |

| | | |
|-----------|--------------------------------------|--------------|
| Company: | CONOCOPHILLIPS CANADA RESOURCES CORP | Schlumberger |
| Well: | COPRC DODO CANYON E76 | |
| Field: | DODO CANYON | |
| Province: | NORTHWEST TERRITORIES | |

