Company: Anzon | Well: Basker 3

## Input DLIS Files

| | | | | | | |
|---|---|---|---|---|---|---|
| RT | FMI_DSI_HRLA_TLD_014LUP | FN:34 | PRODUCER | 28−Apr−2006 10:41 | 4119.4 M | 3503.5 M |

## Output DLIS Files

| | | | | | | |
|---|---|---|---|---|---|---|
| DEFAULT | FMI_DSI_HRLA_TLD_018PUP | FN:40 | PRODUCER | 28−Apr−2006 12:43 | 4120.7 M | 3511.4 M |
| CUSTOMER | FMI_DSI_HRLA_TLD_018PUP | FN:41 | PRODUCER | 28−Apr−2006 12:43 | 4120.7 M | 3511.4 M |

## Integrated Hole/Cement Volume Summary

Hole Volume = 21.47 M3

Cement Volume = 6.55 M3 (assuming 7.00 IN casing O.D.)

Computed from 4120.0 M to 3519.1 M using data channel(s) HCAL

## OP System Version: 14C0−302

MCM

| | | | |
|---|---|---|---|
| FBST−B | unofficial | DSST−B | unofficial |
| HRLT−B | unofficial | HILTB−FTB | unofficial |
| HNGC−B | unofficial | HNGS−BA | unofficial |
| DTC−H | unofficial | DTPC−A | unofficial |
| SPA−A | unofficial | | |

PIP SUMMARY

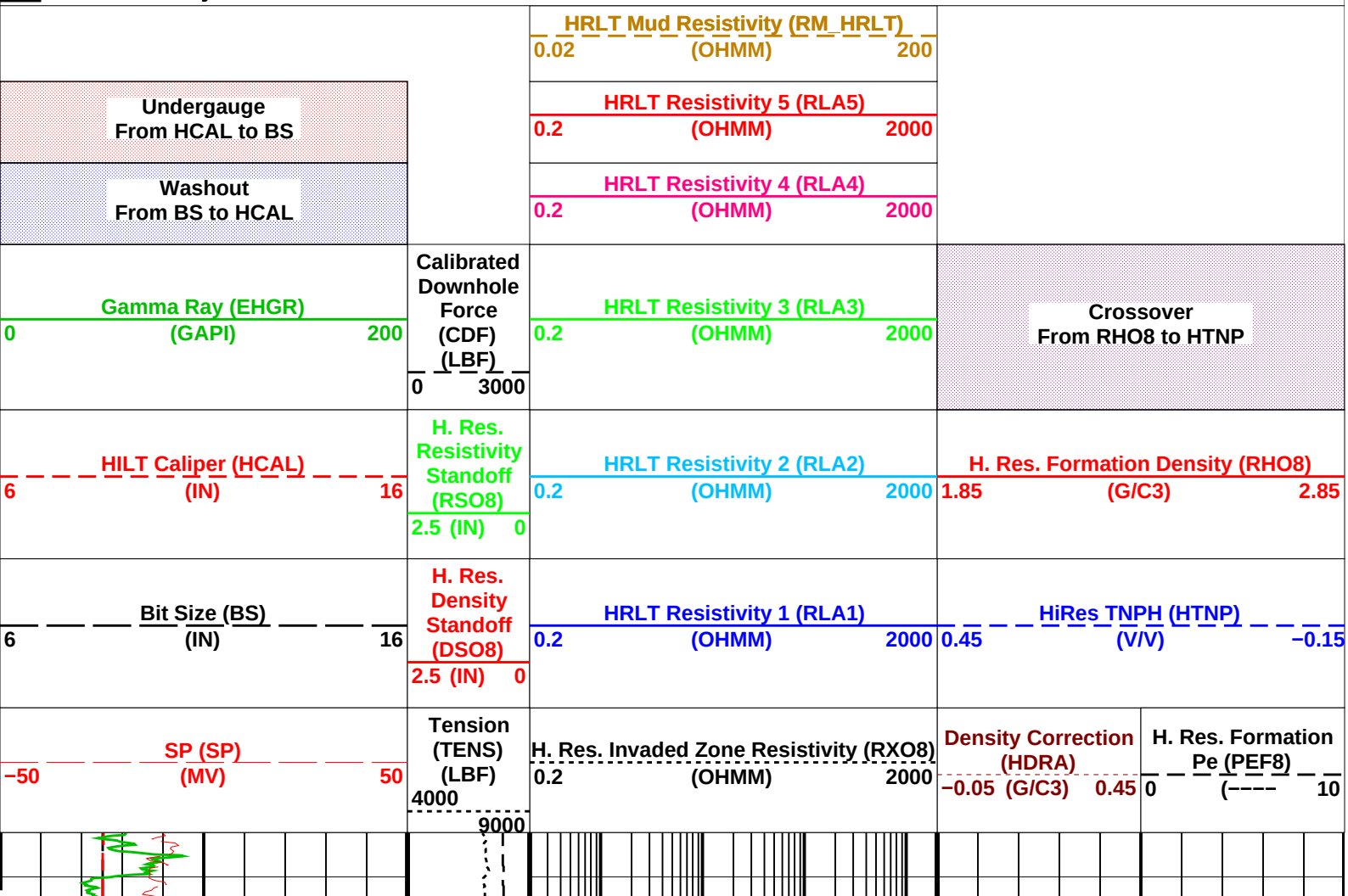
Integrated Hole Volume Minor Pip Every 0.1 M3

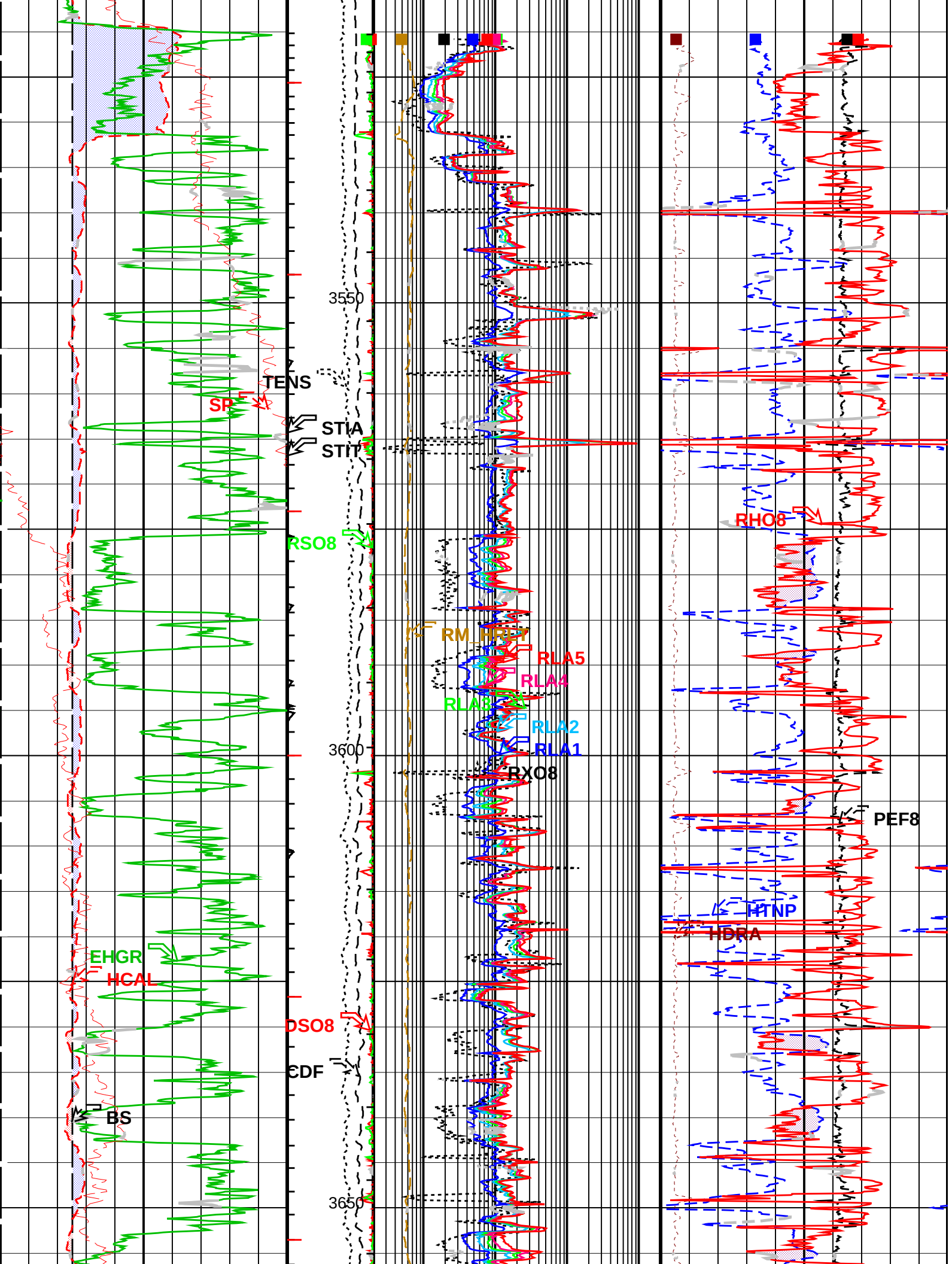
Integrated Hole Volume Major Pip Every 1 M3

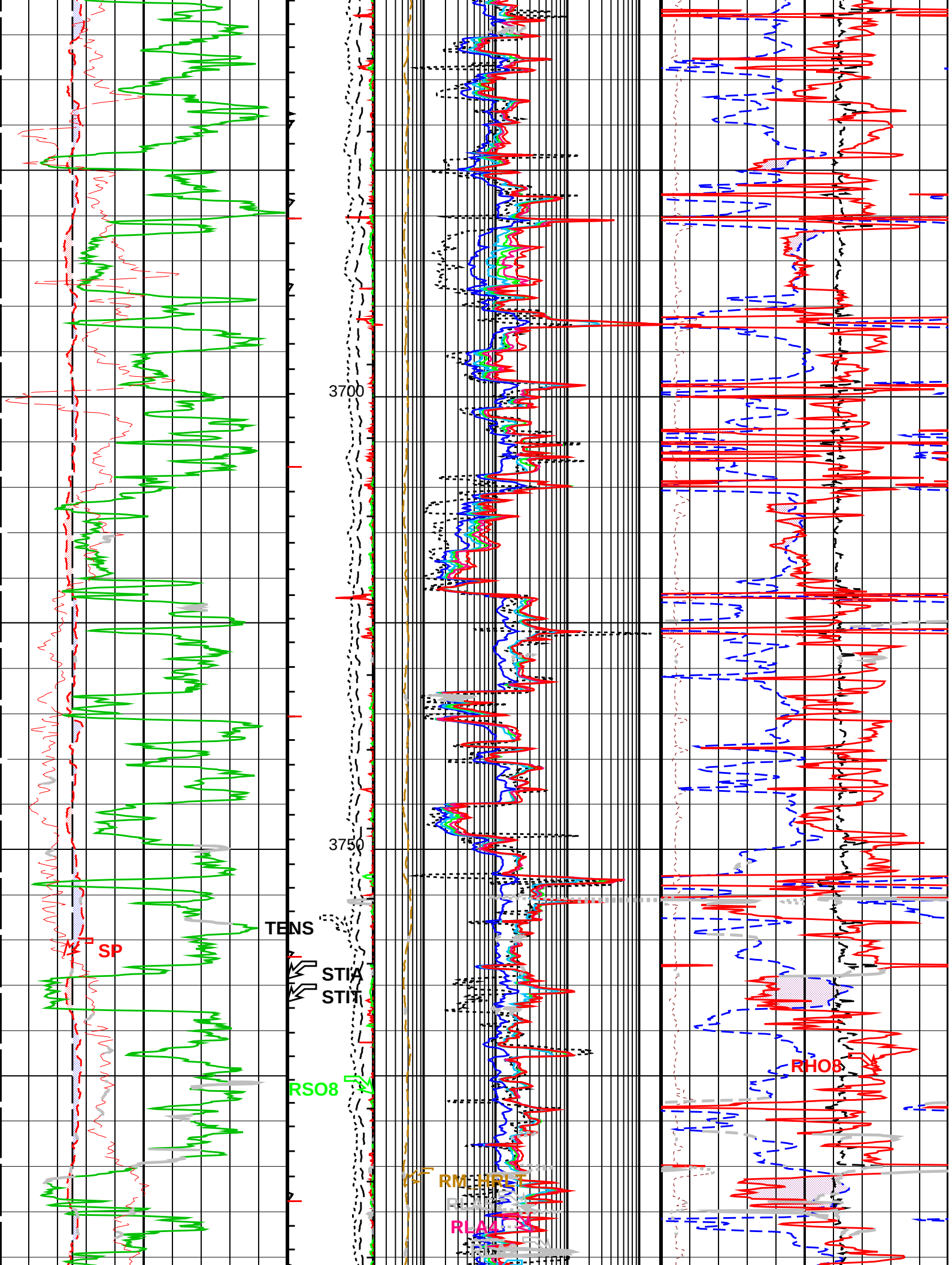
Integrated Cement Volume Minor Pip Every 0.1 M3

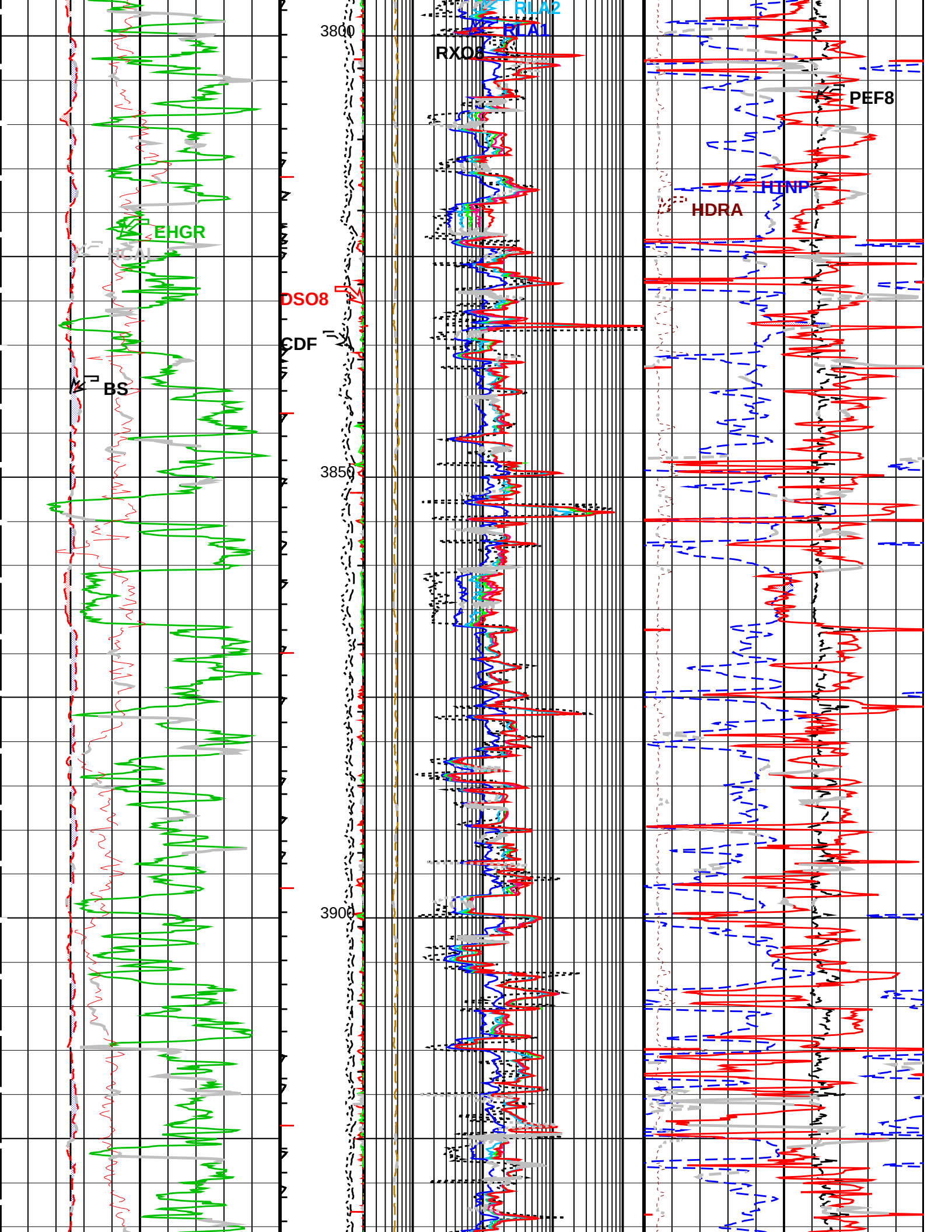
Integrated Cement Volume Major Pip Every 1 M3

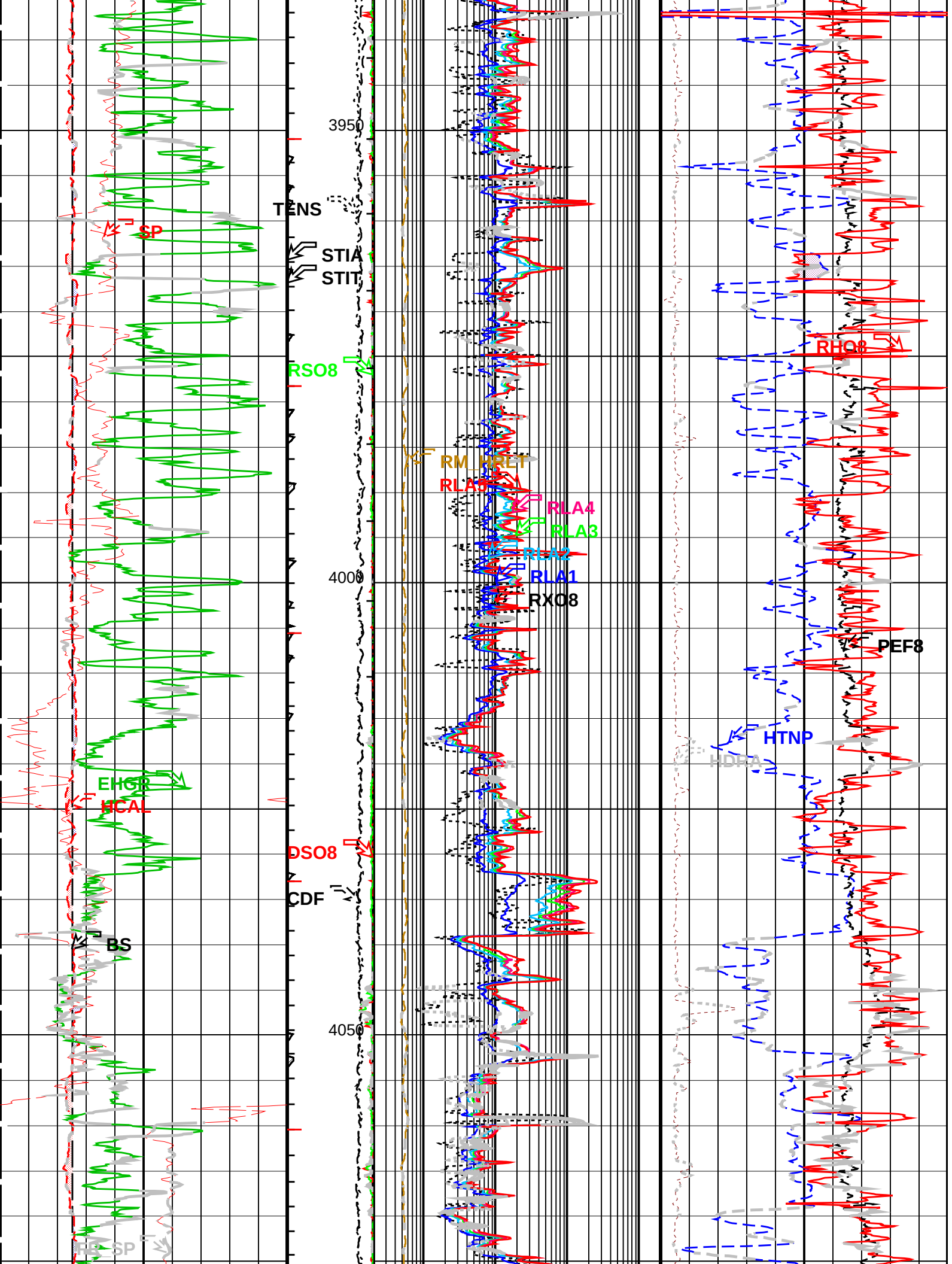
Time Mark Every 60 S

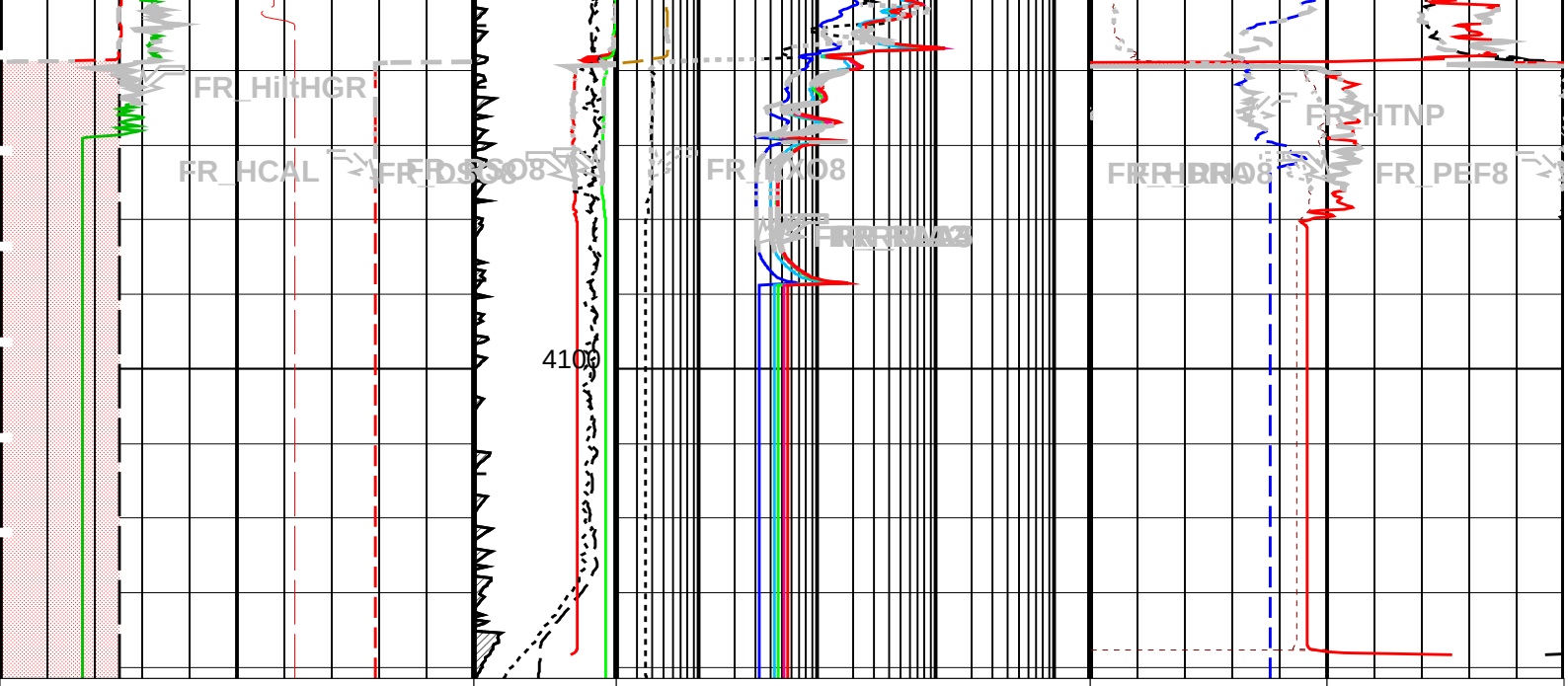



3550
3600
3650
TENS
SP
STIA
STIT
RSO8
RM_HRLT
RLA5
RLA4
RLA3
RLA2
RLA1
RXO8
RHO8
PEF8
HTNP
HDRA
EHGR
HCAL
DSO8
CDF
BS


3700
3750
TENS
SP
STIA
STIT
RSO8
RM
RLA4
RHO8


RLA2
RLA1
3800
RXO8
PEF8
HTNP
HDRA
EHGR
CALI
DSO8
CDF
BS
3850
3900


3950
4000
4050
TENS
SP
STIA
STIT
RSO8
RM_HRLT
RLA5
RLA4
RLA3
RLA2
RLA1
RXO8
EHGR
HCAL
DSO8
CDF
BS
RHO8
PEF8
HTNP
HDRA
SP




| | | | | |
|---|---|---|---|---|
| SP (SP) −50 (MV) 50 | Tension (TENS) (LBF) 4000 9000 | H. Res. Invaded Zone Resistivity (RXO8) 0.2 (OHMM) 2000 | Density Correction (HDRA) −0.05 (G/C3) 0.45 | H. Res. Formation Pe (PEF8) 0 (---- 10 |
| Bit Size (BS) 6 (IN) 16 | H. Res. Density Standoff (DSO8) 2.5 (IN) 0 | HRLT Resistivity 1 (RLA1) 0.2 (OHMM) 2000 | HiRes TNPH (HTNP) 0.45 (V/V) −0.15 | |
| HILT Caliper (HCAL) 6 (IN) 16 | H. Res. Resistivity Standoff (RSO8) 2.5 (IN) 0 | HRLT Resistivity 2 (RLA2) 0.2 (OHMM) 2000 | H. Res. Formation Density (RHO8) 1.85 (G/C3) 2.85 | |
| Gamma Ray (EHGR) 0 (GAPI) 200 | Calibrated Downhole Force (CDF) (LBF) 0 3000 | HRLT Resistivity 3 (RLA3) 0.2 (OHMM) 2000 | Crossover From RHO8 to HTNP | |
| Washout From BS to HCAL | | HRLT Resistivity 4 (RLA4) 0.2 (OHMM) 2000 | | |
| Undergauge From HCAL to BS | | HRLT Resistivity 5 (RLA5) 0.2 (OHMM) 2000 | | |
| | | HRLT Mud Resistivity (RM_HRLT) 0.02 (OHMM) 200 | | |

**PIP SUMMARY**

- Integrated Hole Volume Minor Pip Every 0.1 M3
- Integrated Hole Volume Major Pip Every 1 M3
- Integrated Cement Volume Minor Pip Every 0.1 M3
- Integrated Cement Volume Major Pip Every 1 M3

Time Mark Every 60 S

## Parameters

| DLIS Name | Description | Value | |
|---|---|---|---|
| | DSST−B: Dipole Shear Imager − B | | |
| BHS | Borehole Status | OPEN | |
| BHT | Bottom Hole Temperature (used in calculations) | 114 | DEGC |
| GCSE | Generalized Caliper Selection | HCAL | |
| GDEV | Average Angular Deviation of Borehole from Normal | 0 | DEG |

| | | | |
|---|---|---|---|
| GGRD | Geothermal Gradient | 0.018227 | DC/M |
| GRSE | Generalized Mud Resistivity Selection | CHART_GEN_9 | |
| GTSE | Generalized Temperature Selection | LINEAR_ESTIMATE | |
| MATR | Rock Matrix for Neutron Porosity Corrections | LIMESTONE | |
| SHT | Surface Hole Temperature | 26 | DEGC |
| **HRLT−B: High Resolution Laterolog Array − E** | | | |
| BHS | Borehole Status | OPEN | |
| BHT | Bottom Hole Temperature (used in calculations) | 114 | DEGC |
| GCSE | Generalized Caliper Selection | HCAL | |
| GDEV | Average Angular Deviation of Borehole from Normal | 0 | DEG |
| GGRD | Geothermal Gradient | 0.018227 | DC/M |
| GRSE | Generalized Mud Resistivity Selection | CHART_GEN_9 | |
| GTSE | Generalized Temperature Selection | LINEAR_ESTIMATE | |
| KFAC_HRLT | HRLT K Factor Option | SONDE | |
| MATR | Rock Matrix for Neutron Porosity Corrections | LIMESTONE | |
| PROCINV | Inversion Selection | ON | |
| PROCMFL | Inversion Micro−Resistivity Selection | NO_EXTERNAL_RXO | |
| PROCMSO | Mechanical Standoff Fin Size | 1.5 | IN |
| PROCRM | Processing Mud Resistivity Select | HRLT_Compute | |
| PROCSPO | Sonde Position | Eccentered | |
| SHT | Surface Hole Temperature | 26 | DEGC |
| **HILTB−FTB: High resolution Integrated Logging Tool−DTS** | | | |
| BHFL | Borehole Fluid Type | WATER | |
| BHFL_TLD | HILT Nuclear Mud Base | WATER | |
| BHS | Borehole Status | OPEN | |
| BHT | Bottom Hole Temperature (used in calculations) | 114 | DEGC |
| BSCO | Borehole Salinity Correction Option | YES | |
| CCCO | Casing & Cement Thickness Correction Option | NO | |
| DHC | Density Hole Correction | BS | |
| FSAL | Formation Salinity | −50000 | PPM |
| FSCO | Formation Salinity Correction Option | NO | |
| GCSE | Generalized Caliper Selection | HCAL | |
| GDEV | Average Angular Deviation of Borehole from Normal | 0 | DEG |
| GGRD | Geothermal Gradient | 0.018227 | DC/M |
| GRSE | Generalized Mud Resistivity Selection | CHART_GEN_9 | |
| GTSE | Generalized Temperature Selection | LINEAR_ESTIMATE | |
| HSCO | Hole Size Correction Option | YES | |
| MATR | Rock Matrix for Neutron Porosity Corrections | LIMESTONE | |
| MCCO | Mud Cake Correction Option | NO | |
| MCOR | Mud Correction | NATU | |
| MPOF | MCFL Processing Operation Mode | ON | |
| MWCO | Mud Weight Correction Option | YES | |
| NAAC | HRDD APS Activation Correction | OFF | |
| NMT | HILT Nuclear Mud Type | NOBARITE | |
| NPRM | HRDD Processing Mode | HiRes | |
| NSAR | HRDD Depth Sampling Rate | 1 | IN |
| PTCO | Pressure/Temperature Correction Option | YES | |
| SDAT | Standoff Data Source | SOCN | |
| SHT | Surface Hole Temperature | 26 | DEGC |
| SOCN | Standoff Distance | 0 | IN |
| SOCO | Standoff Correction Option | NO | |
| **HNGS−BA: Hostile Natural Gamma Ray Sonde** | | | |
| BHS | Borehole Status | OPEN | |
| BHT | Bottom Hole Temperature (used in calculations) | 114 | DEGC |
| GCSE | Generalized Caliper Selection | HCAL | |
| GDEV | Average Angular Deviation of Borehole from Normal | 0 | DEG |
| GGRD | Geothermal Gradient | 0.018227 | DC/M |
| GRSE | Generalized Mud Resistivity Selection | CHART_GEN_9 | |
| GTSE | Generalized Temperature Selection | LINEAR_ESTIMATE | |
| MATR | Rock Matrix for Neutron Porosity Corrections | LIMESTONE | |
| SHT | Surface Hole Temperature | 26 | DEGC |
| **SPA−A: SP ADAPTOR** | | | |
| SPNV | SP Next Value | 0 | MV |
| **HOLEV: Integrated Hole/Cement Volume** | | | |
| BHS | Borehole Status | OPEN | |
| BHT | Bottom Hole Temperature (used in calculations) | 114 | DEGC |
| FCD | Future Casing (Outer) Diameter | 7 | IN |
| GCSE | Generalized Caliper Selection | HCAL | |
| GDEV | Average Angular Deviation of Borehole from Normal | 0 | DEG |
| GGRD | Geothermal Gradient | 0.018227 | DC/M |
| GRSE | Generalized Mud Resistivity Selection | CHART_GEN_9 | |
| GTSE | Generalized Temperature Selection | LINEAR_ESTIMATE | |
| HVCS | Integrated Hole Volume Caliper Selection | HCAL | |
| MATR | Rock Matrix for Neutron Porosity Corrections | LIMESTONE | |
| SHT | Surface Hole Temperature | 26 | DEGC |
| **STI: Stuck Tool Indicator** | | | |
| LBFR | Trigger for MAXIS First Reading Label | TDL | |
| STKT | STI Stuck Threshold | 0.762 | M |
| TDD | Total Depth − Driller | 4125.00 | M |
| TDL | Total Depth − Logger | 4120.00 | M |
| **System and Miscellaneous** | | | |
| BS | Bit Size | 8.500 | IN |
| BSAL | Borehole Salinity | 54450.00 | PPM |
| DO | Depth Offset for Playback | 1.4 | M |
| PB | Playback Processing | RECOMPUTE | |

| | | | |
|---|---|---|---|
| PP | Playback Processing | RECOMPUTE | |
| TD | Total Depth | 4120 | M |

**Format: Combo_500_HiRes** **Vertical Scale: 1:500** **Graphics File Created: 28−Apr−2006 12:43**

# OP System Version: 14C0−302

**MCM**

| | | | |
|---|---|---|---|
| FBST−B | unofficial | DSST−B | unofficial |
| HRLT−B | unofficial | HILTB−FTB | unofficial |
| HNGC−B | unofficial | HNGS−BA | unofficial |
| DTC−H | unofficial | DTPC−A | unofficial |
| SPA−A | unofficial | | |

## Input DLIS Files

| | | | | | | |
|---|---|---|---|---|---|---|
| RT | FMI_DSI_HRLA_TLD_014LUP | FN:34 | PRODUCER | 28−Apr−2006 10:41 | 4119.4 M | 3503.5 M |

## Output DLIS Files

| | | | | |
|---|---|---|---|---|
| DEFAULT | FMI_DSI_HRLA_TLD_018PUP | FN:40 | PRODUCER | 28−Apr−2006 12:43 |
| CUSTOMER | FMI_DSI_HRLA_TLD_018PUP | FN:41 | PRODUCER | 28−Apr−2006 12:43 |