

Company: Lamont Doherty
Well: Leg 208, Site 1265A
Field: Walvis Ridge
Country: Africa
Ocean: Atlantic

Country: Africa
Field: Walvis Ridge
Location: Leg 208, Site 1265A
Company: Lamont Doherty

| | | | |
|-----------------------------|-----------------|--------------------------|---------------------|
| Density/APS Porosity | | | |
| Elev.: K.B. 11.3 m | | G.L. -3071 m | |
| Elev.: 0 m | | D.F. 11 m | |
| Permanent Datum: MSL | | | |
| Log Measured From: DF | | 11.3 m above Perm. Datum | |
| Drilling Measured From: DF | | | |
| API Serial No. | Max. Hole Devi. | Longitude 2.0397 | Latitude 28.8350 |

| | | | |
|-------------------------------|-----------------------|--------------|--|
| Logging Date | 1 | | |
| Run Number | 3392 m | | |
| Depth Driller | 3397 m | | |
| Schlumberger Depth | 3395 m | | |
| Bottom Log Interval | 3054.1 m | | |
| Top Log Interval | 0.000 in @ 3140 m | | |
| Casing Driller Size @ Depth | 3145 m | | |
| Casing Schlumberger | 11.438 in | | |
| Bit Size | | | |
| Type Fluid In Hole | | | |
| Density | 1.1 g/cm3 | | |
| Fluid Loss | PH | | |
| Source Of Sample | | | |
| RM @ Measured Temperature | 0.322 ohm.m @ 23 degC | | |
| RMF @ Measured Temperature | @ @ | | |
| RMC @ Measured Temperature | @ @ | | |
| Source RMF | RMC | | |
| RM @ MRT | 0.362 @ 18 @ 18 | | |
| Maximum Recorded Temperatures | 18 degC | | |
| Circulation Stopped | Time | | |
| Logger On Bottom | Time | | |
| Unit Number | 99 | Houston, ODP | |
| Recorded By | Steve Kittredge | | |
| Witnessed By | Philippe Galliot | | |

| | | | |
|--|-------|-------|-----|
| | Run 1 | Run 2 | Run |
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|-------------------------------|-----------|-----|--|
| Logging Date | | | |
| Run Number | | | |
| Depth Driller | | | |
| Schlumberger Depth | | | |
| Bottom Log Interval | | | |
| Top Log Interval | | | |
| Casing Driller Size @ Depth | @ | | |
| Casing Schlumberger | | | |
| Bit Size | | | |
| Type Fluid In Hole | | | |
| Density | Viscosity | | |
| Fluid Loss | PH | | |
| Source Of Sample | | | |
| RM @ Measured Temperature | @ @ | | |
| RMF @ Measured Temperature | @ @ | | |
| RMC @ Measured Temperature | @ @ | | |
| Source RMF | RMC | | |
| RM @ MRT | RMF @ MRT | @ @ | |
| Maximum Recorded Temperatures | | | |
| Circulation Stopped | Time | | |
| Logger On Bottom | Time | | |
| Unit Number | Location | | |
| Recorded By | | | |
| Witnessed By | | | |

DISCLAIMER

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| | |
|---|---|
| OTHER SERVICES1 OS1: MESTB/DSI/SGTN OS2: WST3 OS3: OS4: OS5: | OTHER SERVICES2 OS1: OS2: OS3: OS4: OS5: |
|---|---|

| | |
|--|-----------------------|
| REMARKS: RUN NUMBER 1 Hole Cored with APC/XCB All Depths in Meters Below Rig Floor (MBRF) Hole flushed with Sepiolite Sea Floor Driller 3071 MBRF Total Depth Driller 3342 MBRF Total Depth Logger- 3397 MBRF. Casing Bottom Driller- 3140 MBRF Casing Bottom Logger- 3145 MBRF. APS Output erratic in larger section of hole. APS curve not displayed in larger section of hole. Unable to pick sea floor off log. | REMARKS: RUN NUMBER 2 |
|--|-----------------------|

| | | | | | |
|---------------------------|-------|------|------------------|-------|------|
| RUN 1 | | | RUN 2 | | |
| SERVICE ORDER #: | | | SERVICE ORDER #: | | |
| PROGRAM VERSION: 10C0-306 | | | PROGRAM VERSION: | | |
| FLUID LEVEL: | | | FLUID LEVEL: | | |
| LOGGED INTERVAL | START | STOP | LOGGED INTERVAL | START | STOP |
| | | | | | |
| | | | | | |
| | | | | | |

EQUIPMENT DESCRIPTION

| | | | |
|---|--|-------|--|
| RUN 1 | | RUN 2 | |
| SURFACE EQUIPMENT | | | |
| SFT-281 24 SFT-178 4722 GSR-U 135 WITM (DTS)-A | | | |

| | | | |
|---------------------------|---|-------|-------|
| DOWNHOLE EQUIPMENT | | | |
| LEH-QT |  | 28.69 | |
| LEH-QT | | | |
| DTC-H | CTEM | 27.52 | 27.80 |
| ECH-KC 9343 | TelStatus ToolStatu | 26.89 | |
| HNGS-BA | Upper_1 | 26.19 | 26.89 |
| HNGS BA 77 | Lower_2 | 25.98 | |

INGS-BA 77

HNSH-BA 79

Lower_2

25.90

ILE-D

ILE-D

24.39

APS-BA

APS-BA 22
APH-AC 22
MNTR-F 4185

Status
Minitron
Near TD
Near Arr
Near
Far Arr
Far
Far TD

21.95

19.51
19.43
19.30
19.20

NPLC-B

NPLC-B 79
NPH-B 82

Status

18.01

16.78

HLDS

GSR-Z 1846
HLDV-D 35
HLDS-D 45
HEH-H 35
HLDP-C 45

Caliper
SS LS Status

15.56

11.51

DTA-A

ECH-KE 8231
DTA-A 8231

10.74

DIT-E

DIC-EB 438
MIH-ZA 417
DIS-HB 442

9.52

SP
Deep Ind
Aux Meas SFL
Med Ind

3.15
2.90
1.98
1.83

Status HV DF
Tension

0.00

TOOL ZERO

MAXIMUM STRING DIAMETER 3.88 IN
MEASUREMENTS RELATIVE TO TOOL ZERO
ALL LENGTHS IN METERS

Input DLIS Files

DEFAULT
 PI_LDL_APS_NGS_029LUP
 FN:7
 PRODUCER
 11-Apr-2003 07:21
 3397.0 M
 3338.8 M

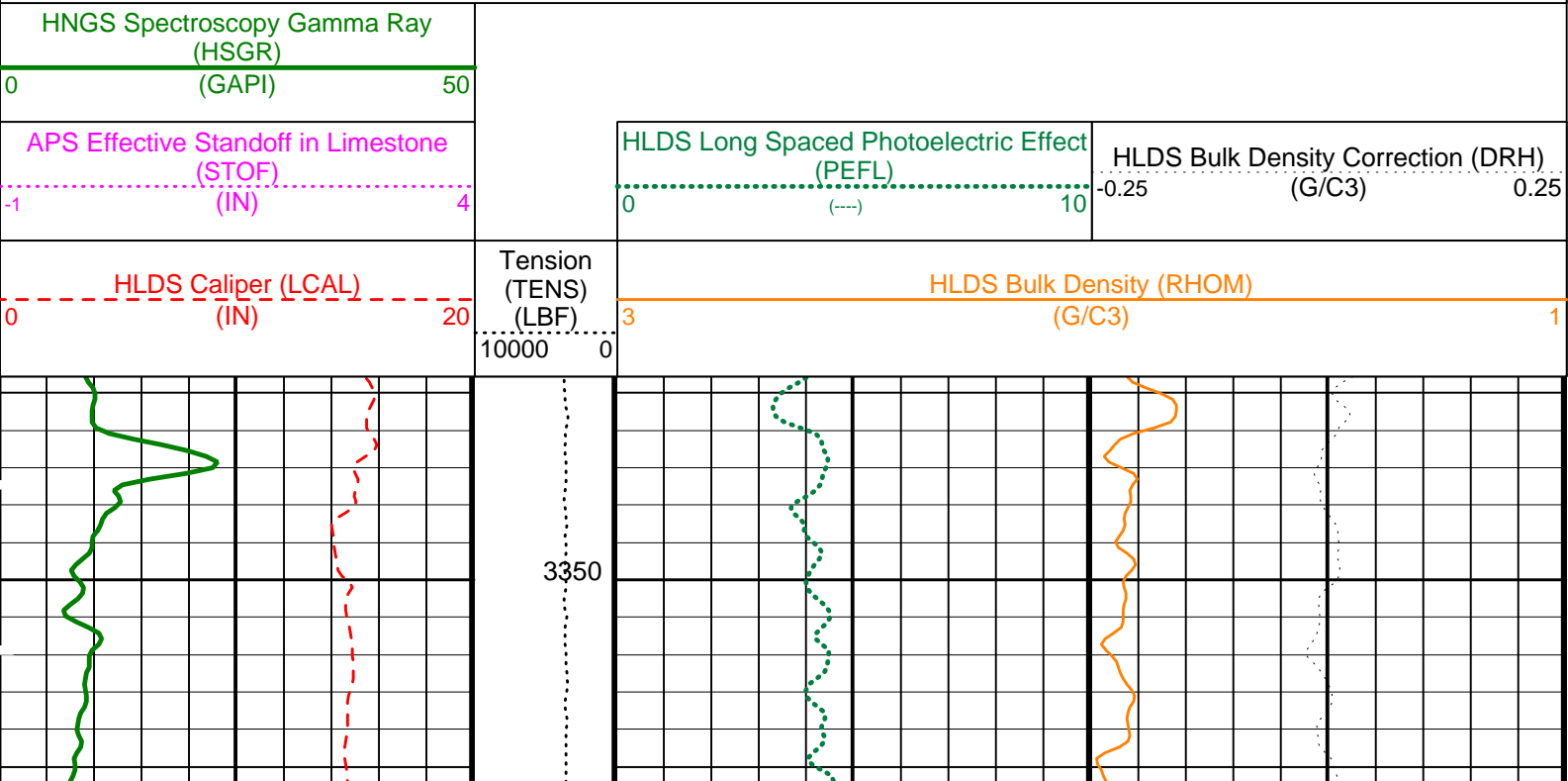
OP System Version: 10C0-306
 MCM

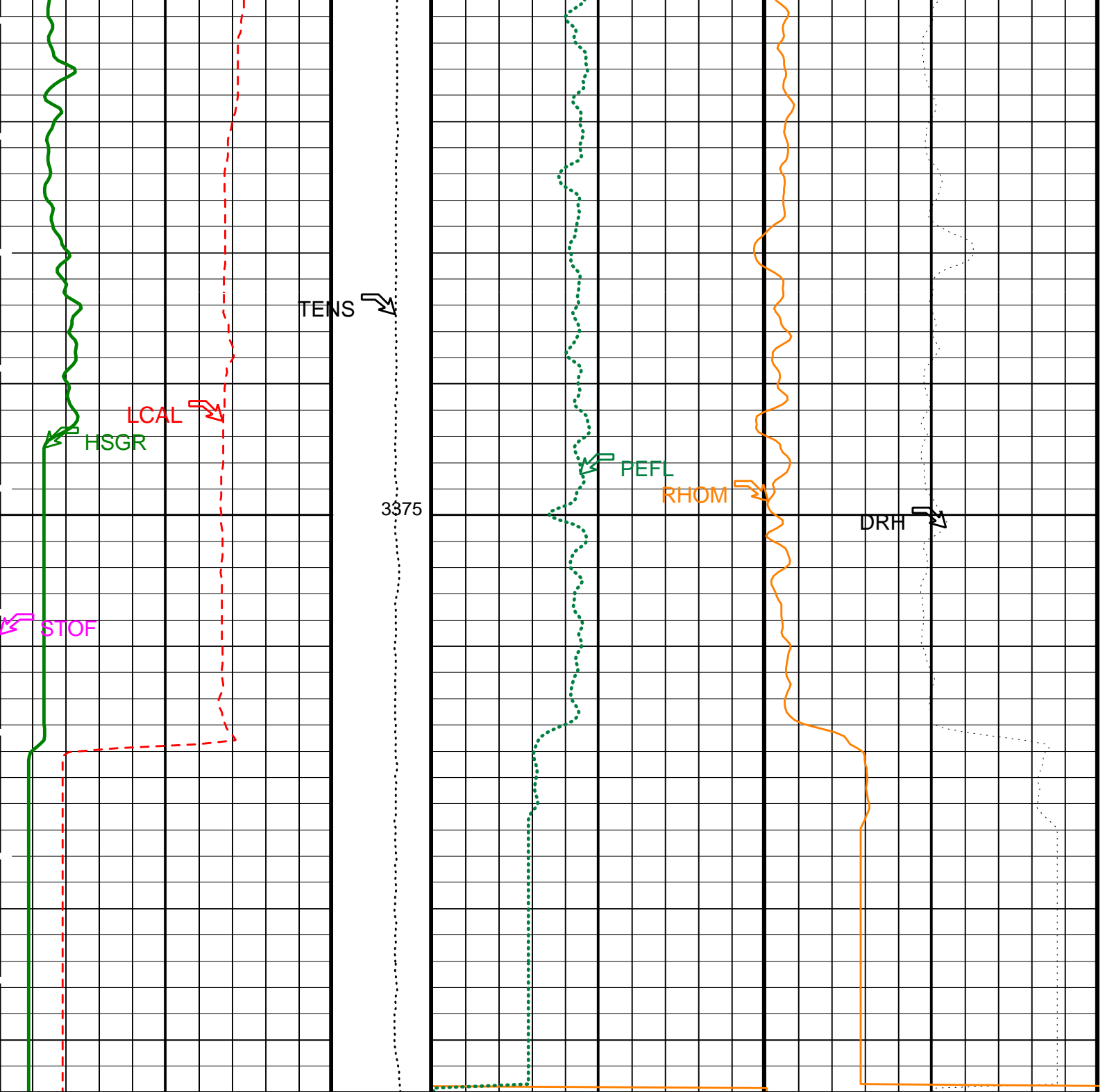
REPEAT UP LOG

| | | | |
|--------|-----------------|---------|-----------------|
| DIT-E | 10C0-306 | DTA-A | 10C0-306 |
| HLDS | SPC-2277-NUCL_b | NPLC-B | OP10-KP1 |
| APS-BA | SPC-2277-NUCL_b | HNGS-BA | SPC-2277-NUCL_b |
| DTC-H | 10C0-306 | | |

PIP SUMMARY

Time Mark Every 60 S





| | | |
|--|---|--|
| <p>HLDS Caliper (LCAL) (IN)</p> <p>0 20</p> | <p>Tension (TENS) (LBF)</p> <p>10000 0</p> | <p>HLDS Bulk Density (RHOM) (G/C3)</p> <p>3 1</p> |
| <p>APS Effective Standoff in Limestone (STOF) (IN)</p> <p>-1 4</p> | <p>HLDS Long Spaced Photoelectric Effect (PEFL) (---)</p> <p>0 10</p> | <p>HLDS Bulk Density Correction (DRH) (G/C3)</p> <p>-0.25 0.25</p> |
| <p>HNGS Spectroscopy Gamma Ray (HSGR) (GAPI)</p> <p>0 50</p> | | |

PIP SUMMARY

Time Mark Every 60 S

Parameters

| DLIS Name | Description | Value | |
|--|--|-----------------|------|
| DIT-E: Dual Induction - E | | | |
| BHS | Borehole Status | OPEN | |
| BHT | Bottom Hole Temperature (used in calculations) | 15 | DEGC |
| GCSE | Generalized Caliper Selection | BS | |
| GDEV | Average Angular Deviation of Borehole from Normal | 0 | DEG |
| GGRD | Geothermal Gradient | 0.018227 | DC/M |
| GTSE | Generalized Temperature Selection | LINEAR_ESTIMATE | |
| SHT | Surface Hole Temperature | 20 | DEGC |
| HLDS: Hostile Litho-Density Sonde | | | |
| DHC | Density Hole Correction | BS | |
| DPPM | Density Porosity Processing Mode | HIRS | |
| FD | Fluid Density | 1 | G/C3 |
| LATC | HLDS Activation Correction | ON | |
| MDEN | Matrix Density | 2.71 | G/C3 |
| APS-BA: Accelerator-Porosity Tool | | | |
| | APS Software Version | 0 | |
| AASD | APS Thermal and Array Detectors High Voltage Setting | 1958.44 | V |
| ADSO | APS Array Detectors Data Source Switch | Both | |
| AFSD | APS Far Detector High Voltage Setting | 2072.71 | V |
| AHCS | APS Holesize Correction Source | GCSE | |
| AHSS | APS Holesize Correction Switch | ON | |
| AMTY | APS Environmental Corrections Mud Type | WaterBaseBarite | |
| ANSD | APS Near Detector High Voltage Setting | 1727.99 | V |
| ASOS | APS Standoff Correction Switch | ON | |
| ATSS | APS Temperature-Pressure-Salinity Correction Switch | OFF | |
| BHS | Borehole Status | OPEN | |
| BHT | Bottom Hole Temperature (used in calculations) | 15 | DEGC |
| DPPM | Density Porosity Processing Mode | HIRS | |
| FSAL | Formation Salinity | 35000 | PPM |
| GCSE | Generalized Caliper Selection | BS | |
| GDEV | Average Angular Deviation of Borehole from Normal | 0 | DEG |
| GGRD | Geothermal Gradient | 0.018227 | DC/M |
| GTSE | Generalized Temperature Selection | LINEAR_ESTIMATE | |
| NARC | APS Near/Array Calibration Ratio | 1.05369 | |
| NFRC | APS Near/Far Calibration Ratio | 0.888689 | |
| SHT | Surface Hole Temperature | 20 | DEGC |
| HNGS-BA: Hostile Natural Gamma Ray Sonde | | | |
| BAR1 | HNGS Detector 1 Barite Constant | 1 | |
| BAR2 | HNGS Detector 2 Barite Constant | 1 | |
| BHK | HNGS Borehole Potassium Correction Concentration | 0 | |
| BHS | Borehole Status | OPEN | |
| BHT | Bottom Hole Temperature (used in calculations) | 15 | DEGC |
| CSD1 | Inner Casing Outer Diameter | 0 | IN |
| CSD2 | Outer Casing Outer Diameter | 0 | IN |
| CSW1 | Inner Casing Weight | 0 | LB/F |
| CSW2 | Outer Casing Weight | 0 | LB/F |
| DBCC | HNGS Barite Constant Correction Flag | NONE | |
| GCSE | Generalized Caliper Selection | BS | |
| GDEV | Average Angular Deviation of Borehole from Normal | 0 | DEG |
| GGRD | Geothermal Gradient | 0.018227 | DC/M |
| GTSE | Generalized Temperature Selection | LINEAR_ESTIMATE | |
| H1P | HNGS Detector 1 Allow/Disallow In Processing | ALLOW | |
| H2P | HNGS Detector 2 Allow/Disallow In Processing | ALLOW | |
| HABK | HNGS Borehole Potassium Running Average | -0.00132207 | |
| HALF | HNGS Alpha Filter Length | 60 | IN |
| HCRB | HNGS Apply Borehole Potassium Correction | NONE | |
| HMWM | Mud Weighting Material | NATU | |
| HNPE | HNGS Processing Enable | YES | |
| S1BI | HNGS Detector 1 Calibration Bismuth Count Rate | 1.3 | CPS |
| S2BI | HNGS Detector 2 Calibration Bismuth Count Rate | 1.3 | CPS |
| SGRC | HNGS Standard Gamma-Ray Correction Flag | YES | |
| SHT | Surface Hole Temperature | 20 | DEGC |
| TPOS | Tool Position | ECCE | |
| VBA1 | HNGS Detector 1 Variable Barite Factor Running Average | 0.944171 | |
| VBA2 | HNGS Detector 2 Variable Barite Factor Running Average | 1.09247 | |
| System and Miscellaneous | | | |
| BS | Bit Size | 11.438 | IN |
| BSAL | Borehole Salinity | 35000.00 | PPM |
| CSIZ | Current Casing Size | 0.000 | IN |
| CWEI | Casing Weight | 0.00 | LB/F |
| DFD | Drilling Fluid Density | 1.10 | G/C3 |
| DO | Depth Offset for Playback | 0.0 | M |
| PP | Playback Processing | NORMAL | |
| TD | Total Depth | 3392 | M |

Format: APSLiquidPorosity_1 Vertical Scale: 1:200 Graphics File Created: 13-Apr-2003 11:36

OP System Version: 10C0-306
MCM

DIT-E 10C0-306 DTA-A 10C0-306
HLDS SPC-2277-NUCL_b NPLC-B OP10-KP1

| Input DLIS Files | | | | | | |
|------------------|-----------------------|------|----------|-------------------|----------|----------|
| DEFAULT | PI_LDL_APS_NGS_029LUP | FN:7 | PRODUCER | 11-Apr-2003 07:21 | 3397.0 M | 3338.8 M |

| Input DLIS Files | | | | | | |
|------------------|-----------------------|------|----------|-------------------|----------|----------|
| DEFAULT | PI_LDL_APS_NGS_028LUP | FN:5 | PRODUCER | 11-Apr-2003 05:53 | 3397.0 M | 3054.1 M |

OP System Version: 10C0-306
MCM

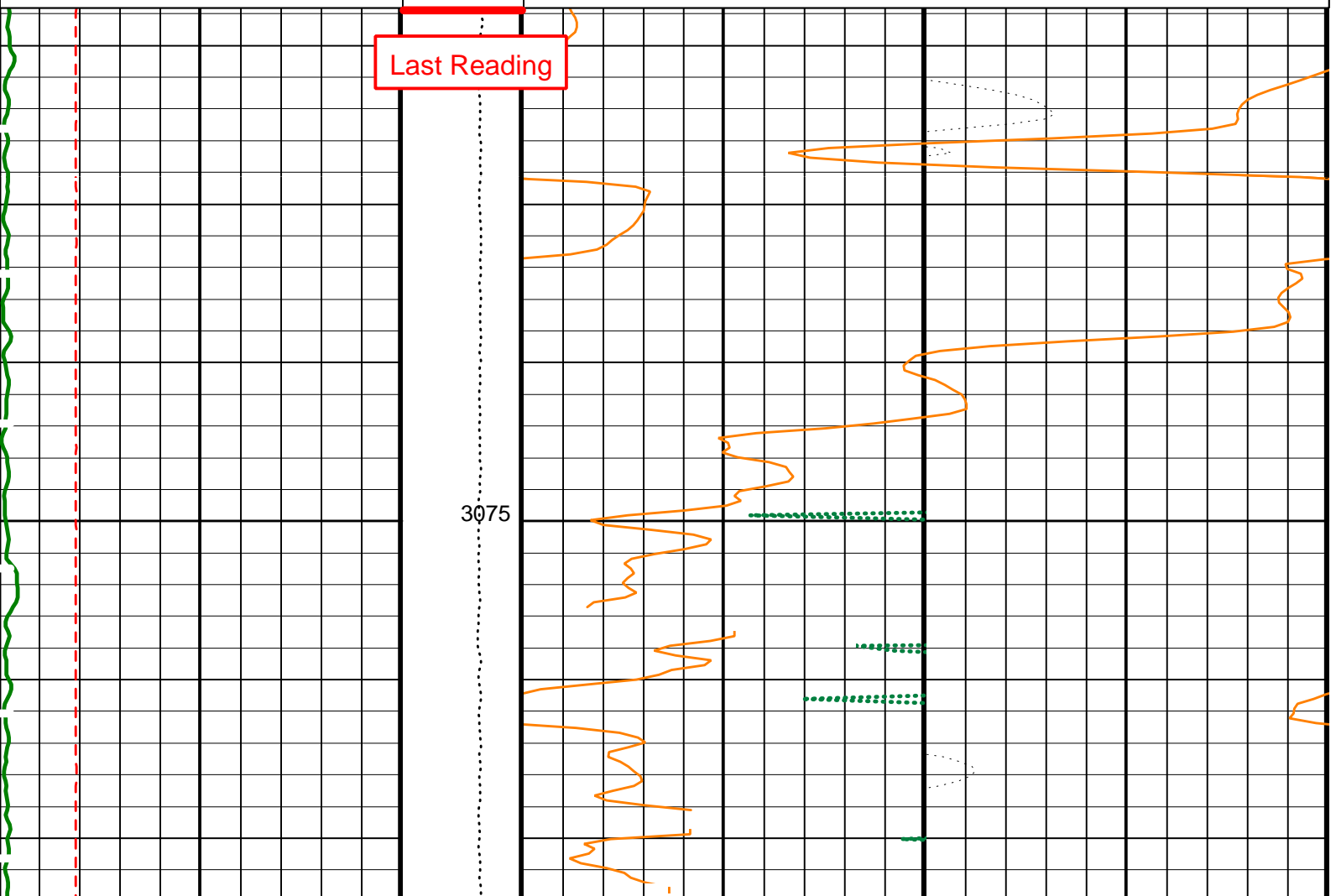
MAIN UP LOG

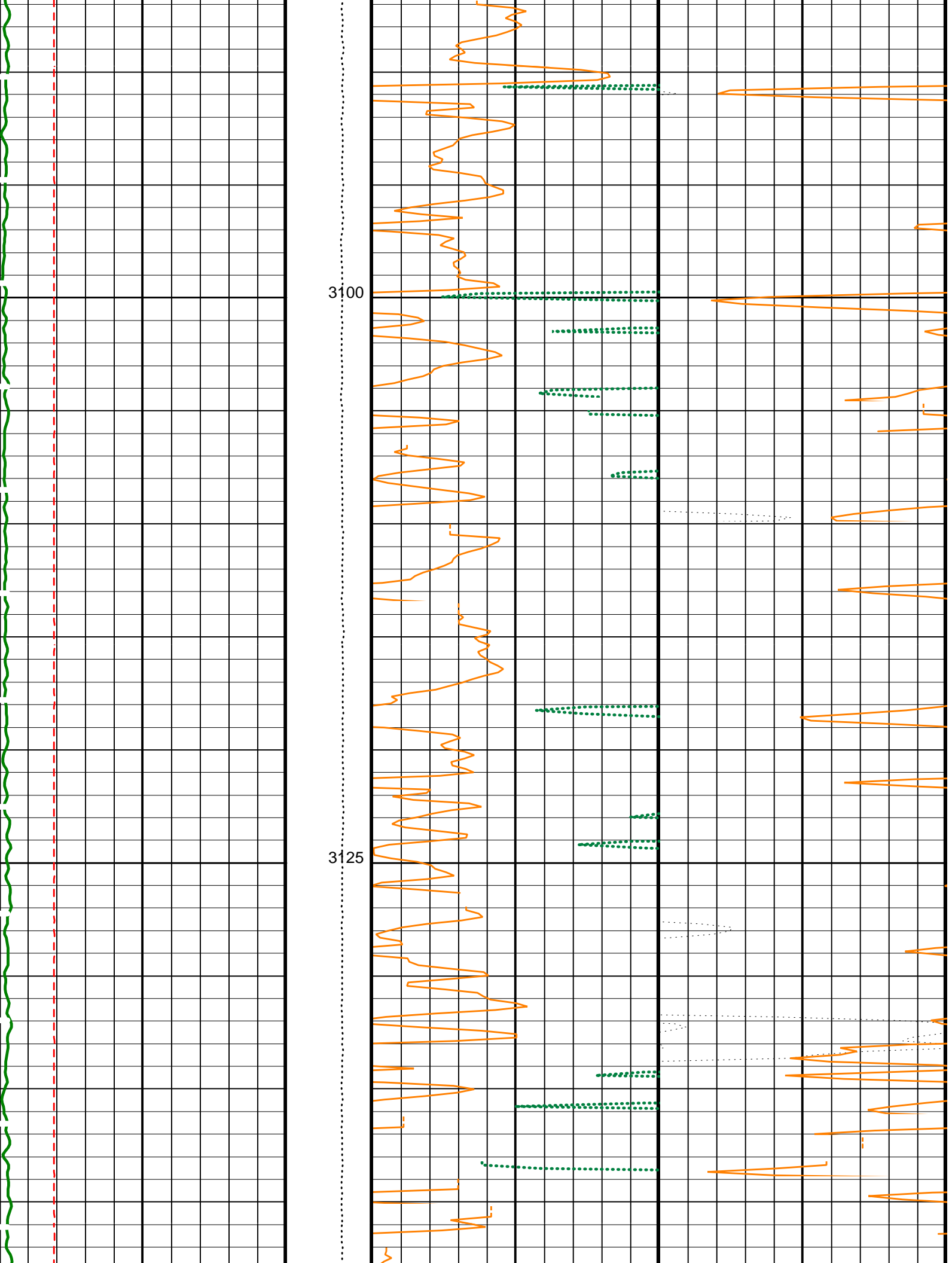
| | | | |
|--------|-----------------|---------|-----------------|
| DIT-E | 10C0-306 | DTA-A | 10C0-306 |
| HLDS | SPC-2277-NUCL_b | NPLC-B | OP10-KP1 |
| APS-BA | SPC-2277-NUCL_b | HNGS-BA | SPC-2277-NUCL_b |
| DTC-H | 10C0-306 | | |

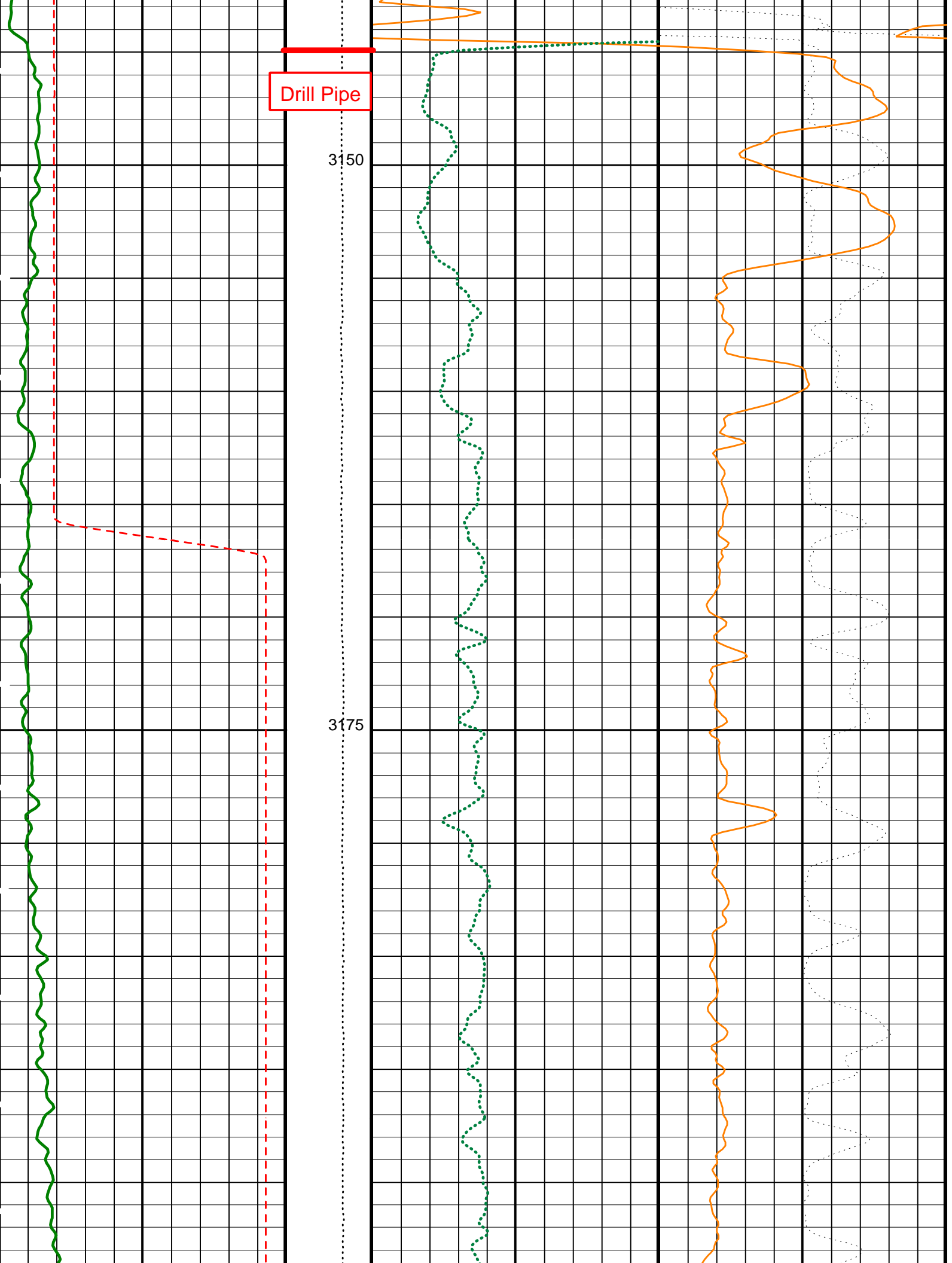
PIP SUMMARY

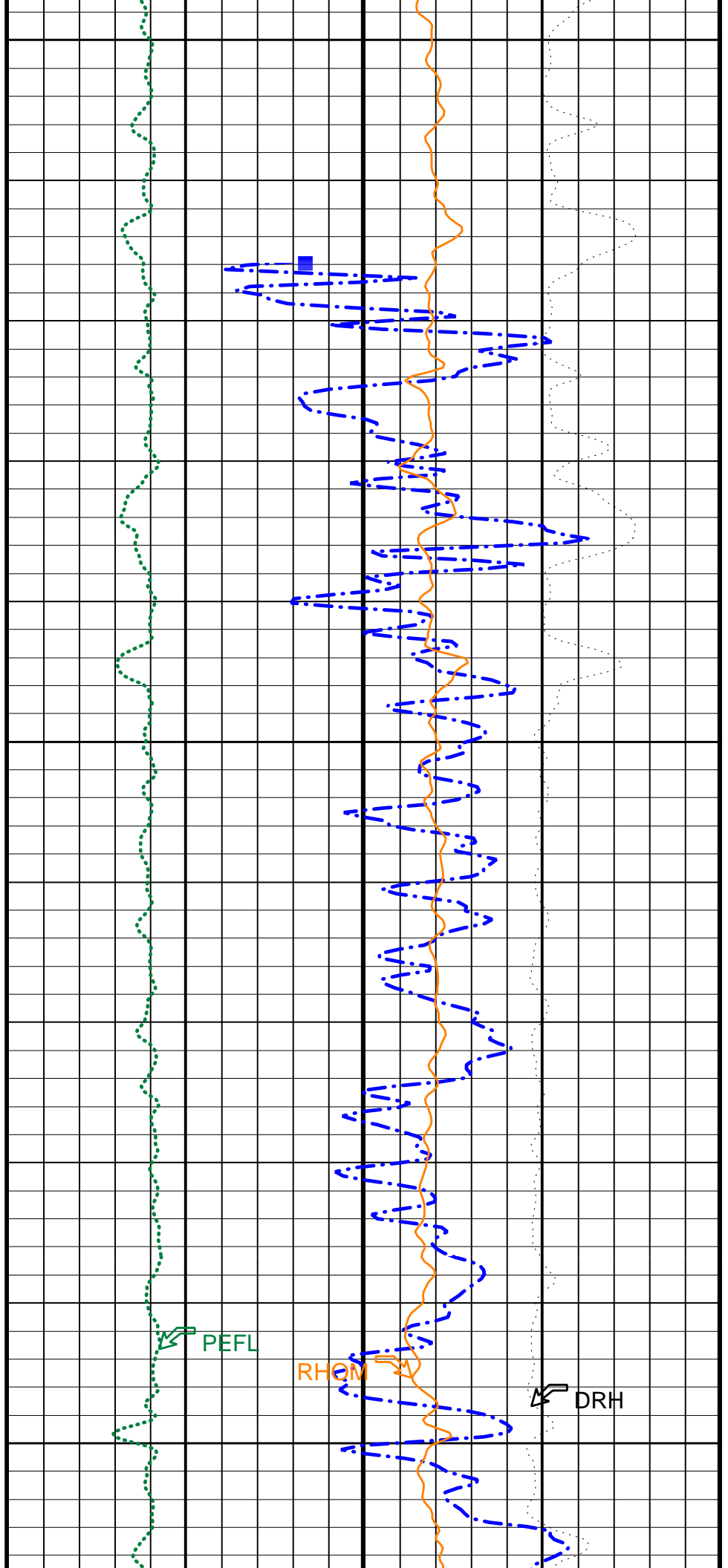
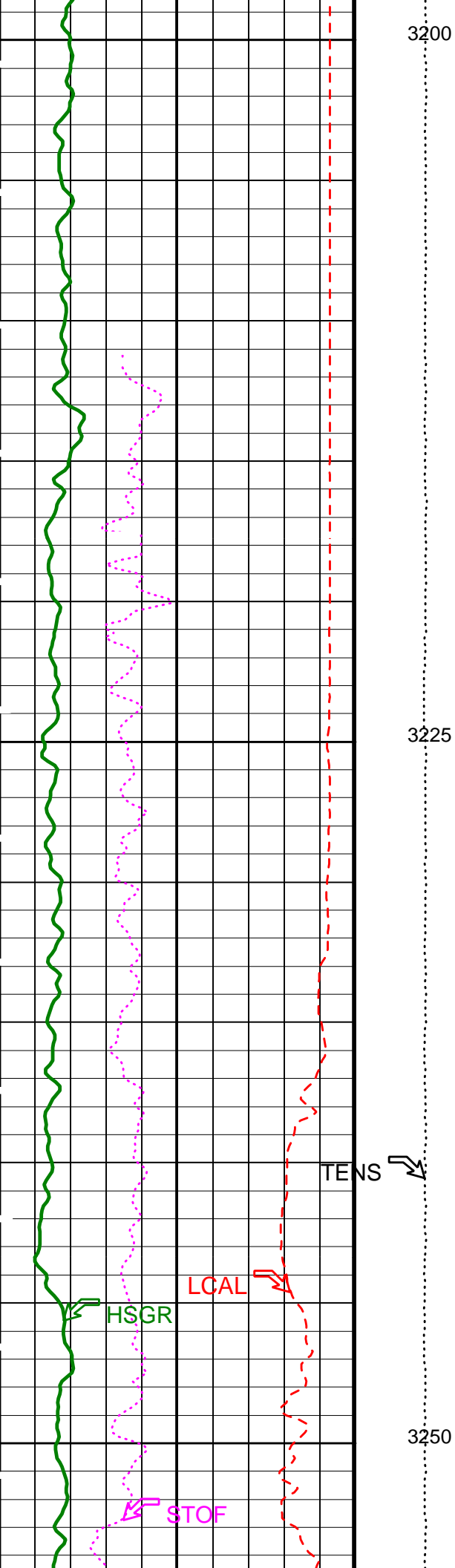
Time Mark Every 60 S

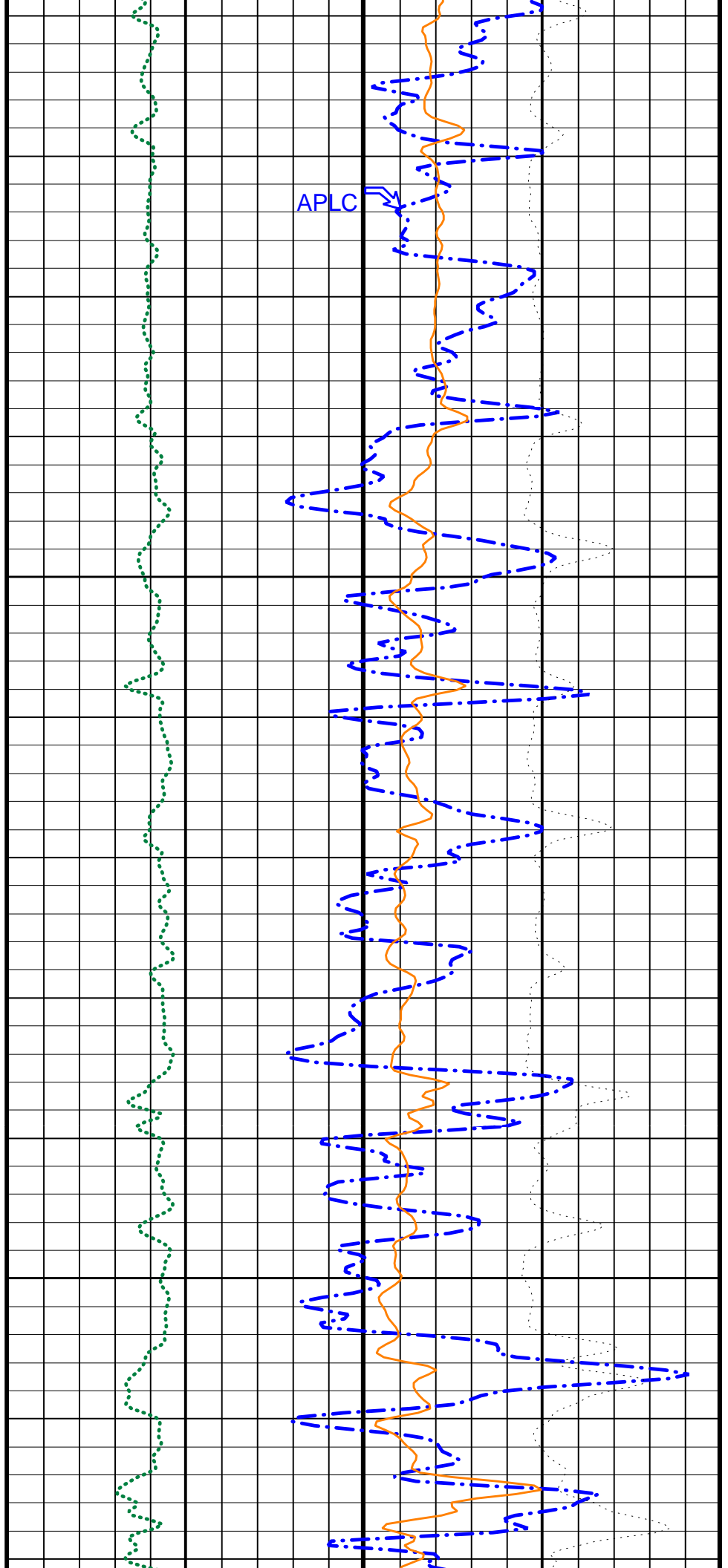
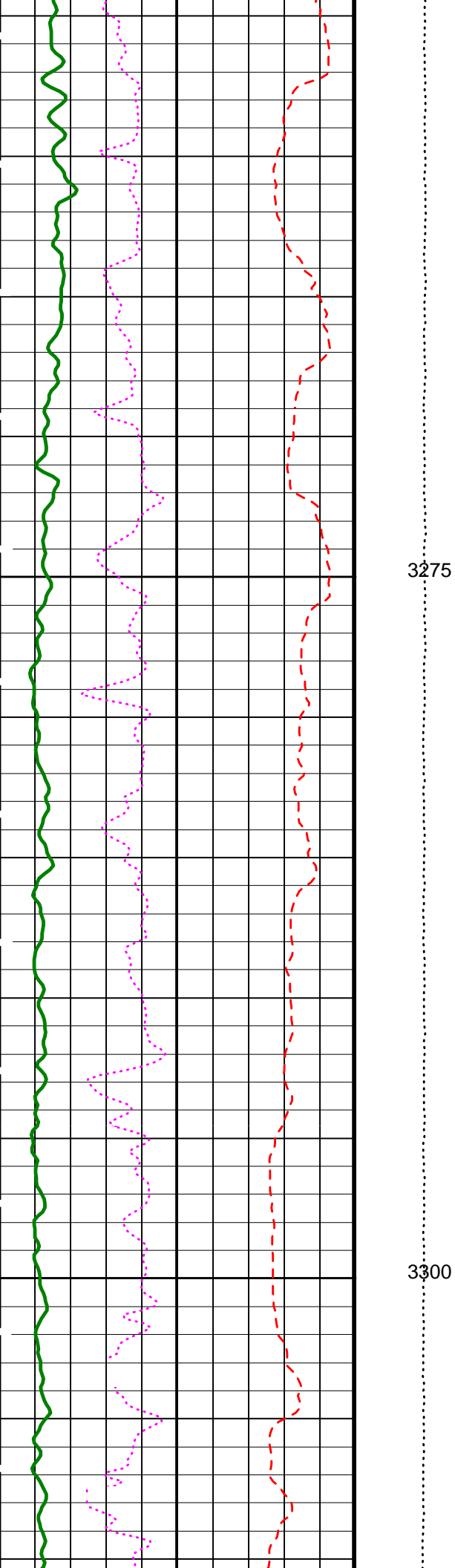
| | | |
|--|--|---|
| <p>HNGS Spectroscopy Gamma Ray (HSGR) (GAPI) 0 50</p> <p>APS Effective Standoff in Limestone (STOF) (IN) -1 4</p> <p>HLDS Caliper (LCAL) (IN) 0 20</p> | <p>HLDS Long Spaced Photoelectric Effect (PEFL) 0 10</p> <p>HLDS Bulk Density (RHOM) (G/C3) 3 1</p> <p>Tension (TENS) (LBF) 0 10000</p> <p>APS Near/Array Corrected Limestone Porosity (APLC) (PU) 0 100</p> | <p>HLDS Bulk Density Correction (DRH) (G/C3) -0.25 0.25</p> |
|--|--|---|

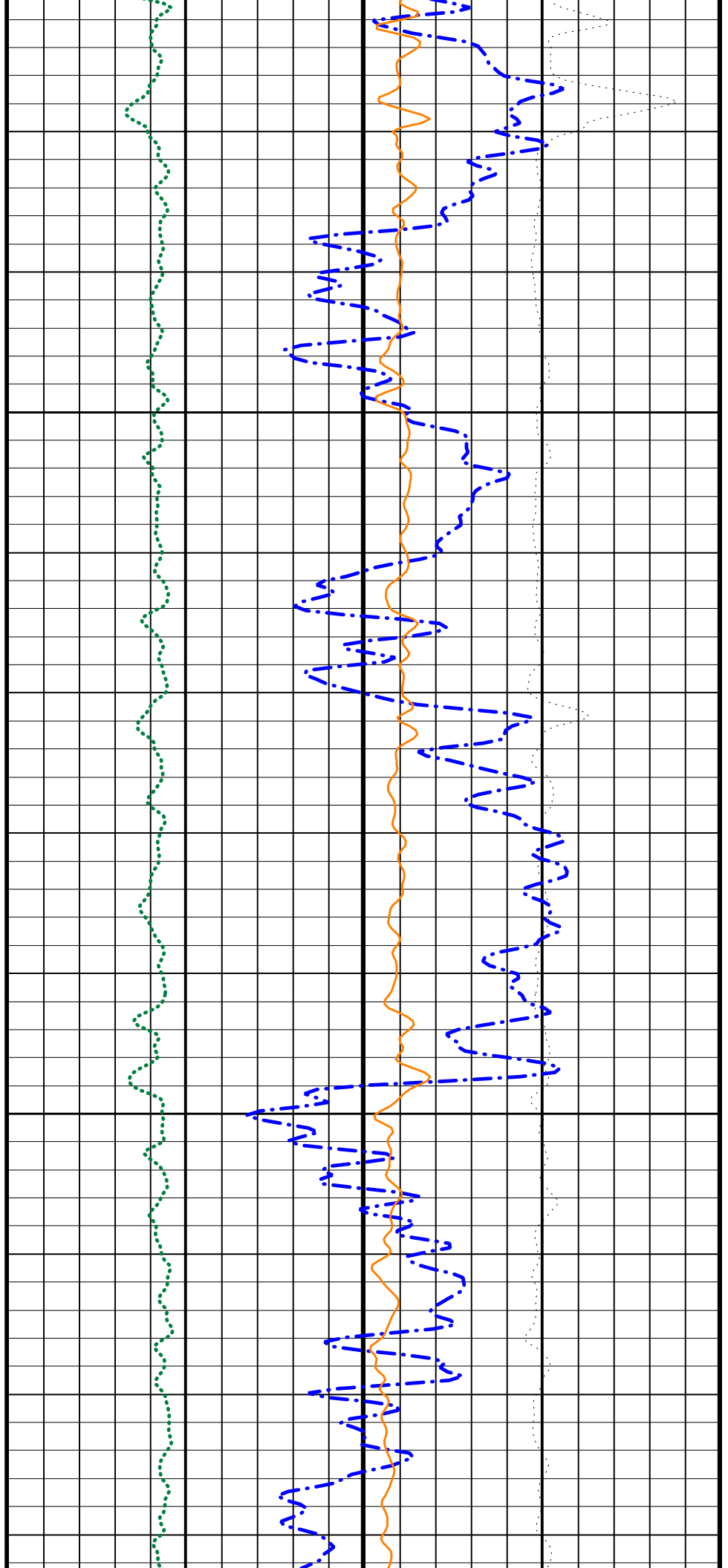
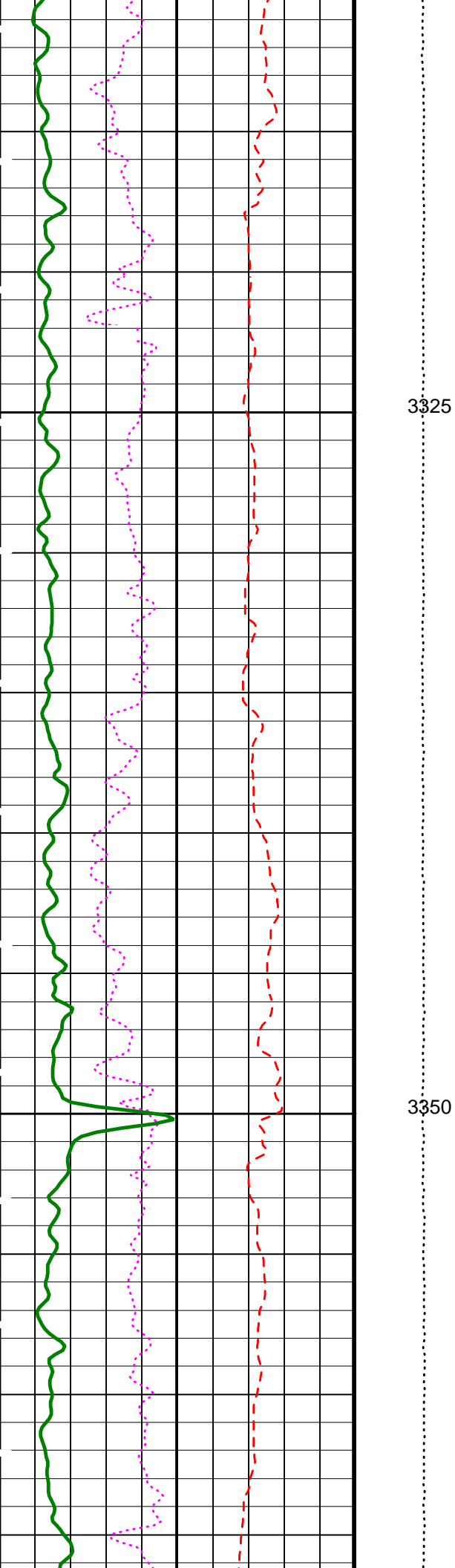


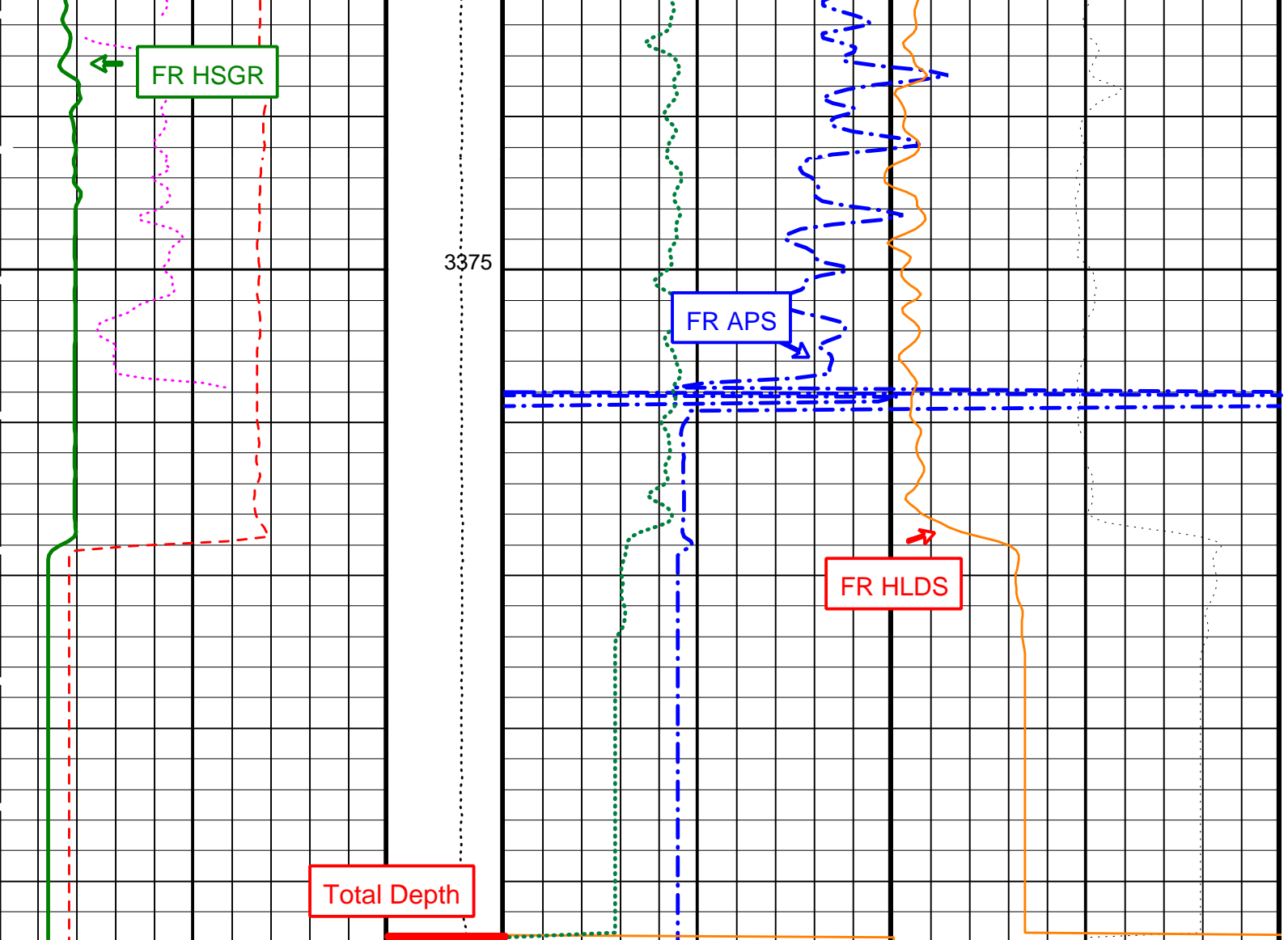












| | | |
|--|---|--|
| HLDS Caliper (LCAL) (IN) | Tension (TENS) (LBF) | APS Near/Array Corrected Limestone Porosity (APLC) (PU) |
| 0 20 | 10000 0 | 0 100 |
| APS Effective Standoff in Limestone (STOF) (IN) | | HLDS Bulk Density (RHOM) (G/C3) |
| -1 4 | | 3 1 |
| HNGS Spectroscopy Gamma Ray (HSGR) (GAPI) | HLDS Long Spaced Photoelectric Effect (PEFL) (---) | HLDS Bulk Density Correction (DRH) (G/C3) |
| 0 50 | 0 10 | -0.25 0.25 |

PIP SUMMARY

Time Mark Every 60 S

Parameters

| DLIS Name | Description | Value |
|-----------------------------------|---|-----------------|
| DIT-E: Dual Induction - E | | |
| BHS | Borehole Status | OPEN |
| BHT | Bottom Hole Temperature (used in calculations) | 15 DEGC |
| GCSE | Generalized Caliper Selection | BS |
| GDEV | Average Angular Deviation of Borehole from Normal | 0 DEG |
| GGRD | Geothermal Gradient | 0.018227 DC/M |
| GTSE | Generalized Temperature Selection | LINEAR_ESTIMATE |
| SHT | Surface Hole Temperature | 20 DEGC |
| HLDS: Hostile Litho-Density Sonde | | |
| DHC | Density Hole Correction | BS |
| DPPM | Density Porosity Processing Mode | HIRS |
| FD | Fluid Density | 1 G/C3 |
| LATC | HLDS Activation Correction | ON |
| MDEN | Matrix Density | 2.71 G/C3 |

APS-BA: Accelerator-Porosity Tool

| | | | |
|------|--|-----------------|------|
| AASD | APS Software Version | 0 | |
| ADSO | APS Thermal and Array Detectors High Voltage Setting | 1958.44 | V |
| AFSD | APS Array Detectors Data Source Switch | Both | |
| AHCS | APS Far Detector High Voltage Setting | 2072.71 | V |
| AHSS | APS Holesize Correction Source | GCSE | |
| AMTY | APS Holesize Correction Switch | ON | |
| ANSD | APS Environmental Corrections Mud Type | WaterBaseBarite | |
| ASOS | APS Near Detector High Voltage Setting | 1727.99 | V |
| ATSS | APS Standoff Correction Switch | ON | |
| BHS | APS Temperature-Pressure-Salinity Correction Switch | OFF | |
| BHT | Borehole Status | OPEN | |
| DPPM | Bottom Hole Temperature (used in calculations) | 15 | DEGC |
| FSAL | Density Porosity Processing Mode | HIRS | |
| GCSE | Formation Salinity | 35000 | PPM |
| GDEV | Generalized Caliper Selection | BS | |
| GGRD | Average Angular Deviation of Borehole from Normal | 0 | DEG |
| GTSE | Geothermal Gradient | 0.018227 | DC/M |
| NARC | Generalized Temperature Selection | LINEAR_ESTIMATE | |
| NFRC | APS Near/Array Calibration Ratio | 1.05369 | |
| SHT | APS Near/Far Calibration Ratio | 0.888689 | |
| | Surface Hole Temperature | 20 | DEGC |

HNGS-BA: Hostile Natural Gamma Ray Sonde

| | | | |
|------|--|-----------------|------|
| BAR1 | HNGS Detector 1 Barite Constant | 1 | |
| BAR2 | HNGS Detector 2 Barite Constant | 1 | |
| BHK | HNGS Borehole Potassium Correction Concentration | 0 | |
| BHS | Borehole Status | OPEN | |
| BHT | Bottom Hole Temperature (used in calculations) | 15 | DEGC |
| CSD1 | Inner Casing Outer Diameter | 0 | IN |
| CSD2 | Outer Casing Outer Diameter | 0 | IN |
| CSW1 | Inner Casing Weight | 0 | LB/F |
| CSW2 | Outer Casing Weight | 0 | LB/F |
| DBCC | HNGS Barite Constant Correction Flag | NONE | |
| GCSE | Generalized Caliper Selection | BS | |
| GDEV | Average Angular Deviation of Borehole from Normal | 0 | DEG |
| GGRD | Geothermal Gradient | 0.018227 | DC/M |
| GTSE | Generalized Temperature Selection | LINEAR_ESTIMATE | |
| H1P | HNGS Detector 1 Allow/Disallow In Processing | ALLOW | |
| H2P | HNGS Detector 2 Allow/Disallow In Processing | ALLOW | |
| HABK | HNGS Borehole Potassium Running Average | -0.00132207 | |
| HALF | HNGS Alpha Filter Length | 60 | IN |
| HCRB | HNGS Apply Borehole Potassium Correction | NONE | |
| HMWM | Mud Weighting Material | NATU | |
| HNPE | HNGS Processing Enable | YES | |
| S1BI | HNGS Detector 1 Calibration Bismuth Count Rate | 1.3 | CPS |
| S2BI | HNGS Detector 2 Calibration Bismuth Count Rate | 1.3 | CPS |
| SGRC | HNGS Standard Gamma-Ray Correction Flag | YES | |
| SHT | Surface Hole Temperature | 20 | DEGC |
| TPOS | Tool Position | ECCE | |
| VBA1 | HNGS Detector 1 Variable Barite Factor Running Average | 0.944171 | |
| VBA2 | HNGS Detector 2 Variable Barite Factor Running Average | 1.09247 | |

System and Miscellaneous

| | | | |
|------|---------------------------|----------|------|
| BS | Bit Size | 11.438 | IN |
| BSAL | Borehole Salinity | 35000.00 | PPM |
| CSIZ | Current Casing Size | 0.000 | IN |
| CWEI | Casing Weight | 0.00 | LB/F |
| DFD | Drilling Fluid Density | 1.10 | G/C3 |
| DO | Depth Offset for Playback | 0.0 | M |
| PP | Playback Processing | NORMAL | |
| TD | Total Depth | 3392 | M |

Format: APSLiquidPorosity_1 Vertical Scale: 1:200 Graphics File Created: 13-Apr-2003 11:12

OP System Version: 10C0-306
MCM

| | | | |
|--------|-----------------|---------|-----------------|
| DIT-E | 10C0-306 | DTA-A | 10C0-306 |
| HLDS | SPC-2277-NUCL_b | NPLC-B | OP10-KP1 |
| APS-BA | SPC-2277-NUCL_b | HNGS-BA | SPC-2277-NUCL_b |
| DTC-H | 10C0-306 | | |

Input DLIS Files

| | | | | | | |
|---------|-----------------------|------|----------|-------------------|----------|----------|
| DEFAULT | PI_LDL_APS_NGS_028LUP | FN:5 | PRODUCER | 11-Apr-2003 05:53 | 3397.0 M | 3054.1 M |
|---------|-----------------------|------|----------|-------------------|----------|----------|

Company: Lamont Doherty



Well: Leg 208, Site 1265A

Field: Walvis Ridge

Country: Africa

Ocean: Atlantic

Phasor Induction

Natural Gamma Ray