

| | | | | | | | | | | | | | | | |
|--|--|--|--|--|--|--|-----|--|--|--|--|--|------|-----------|--|
| | | | | | | | MUD | | | | | | Rig: | FNSCO 102 | |
|--|--|--|--|--|--|--|-----|--|--|--|--|--|------|-----------|--|

Run 2

Date Created: 7-DEC-2004 9:29:10

Logging Cable

| | |
|--------------------|----------------|
| Type: | 7-46ZV-XS |
| Serial Number: | 74172 |
| Length: | 7324.04 M |
| <hr/> | |
| Conveyance Method: | Wireline |
| Rig Type: | Offshore Fixed |

| | |
|---------------------------|--|
| Log Sequence: | Subsequent Log In the Well |
| Reference Log Name: | SP-HRLA-PEX-CMR-GR Nuclear Resistivity Pri |
| Reference Log Run Number: | Suite-1, Run1 |
| Reference Log Date: | 24-Nov-2004 |

1. Subsequent Run in Hole. Log correlated to Schlumberger SP-HRLA-PEX-CMR-GR log, dated 24-Nov-04.
2. Primary depth reference IDW-E.
3. Several correlation passes completed during the run. Depth adjustments made in real time between stations.
4. See correlation passes presented in print for on depth Gamma Ray correlations.
- 5.
- 6.

THE USE OF AND RELIANCE UPON THIS RECORDED-DATA BY THE HEREIN NAMED COMPANY (AND ANY OF ITS AFFILIATES, PARTNERS, REPRESENTATIVES, AGENTS, CONSULTANTS AND EMPLOYEES) IS SUBJECT TO THE TERMS AND CONDITIONS AGREED UPON BETWEEN SCHLUMBERGER AND THE COMPANY, INCLUDING: (a) RESTRICTIONS ON USE OF THE RECORDED-DATA; (b) DISCLAIMERS AND WAIVERS OF WARRANTIES AND REPRESENTATIONS REGARDING COMPANY'S USE OF AND RELIANCE UPON THE RECORDED-DATA; AND (c) CUSTOMER'S FULL AND SOLE RESPONSIBILITY FOR ANY INFERENCE DRAWN OR DECISION MADE IN CONNECTION WITH THE USE OF THIS RECORDED-DATA.

OS1: SP-HRLA-PEX-CMR-G
OS2: VSI-GR
OS3: MDT-GR
OS4: FMI-DSI-HNGS
OS5:

Subsequent Run in Hole. Full Schlumberger depth procedures applied – see Depth Summary Listing above.

Toolstring run as per tool sketch.

Objective of survey was to collect multiple cores at specified depths.

Tool was pulled out of hole after coring attempt at 3414.0m. While coring, logs showed that core pusher piston was not fully extended and marker discs were jamming. Tool was therefore POOH.

Coring was attempted at 12 depths: 5 cores were recovered to surface along with 3 partial recoveries.

Note that core summary includes coring attempts from Run 6 and tool checks at surface (i.e. where depths are negative).

Upon reaching surface it was discovered that core from 3414.0m was lodged in bit due to marker jamming.

8.81

Tension MSCT

___ TOOL ZERO

TOOL BOTTOM

MAXIMUM STRING DIAMETER 5.25 IN
MEASUREMENTS RELATIVE TO TOOL ZERO
ALL LENGTHS IN METERS

Client: Origin Energy Resources Ltd.

Drawing Date: 12/2/2004

Well: Trefoil-1

Field: Trefoil

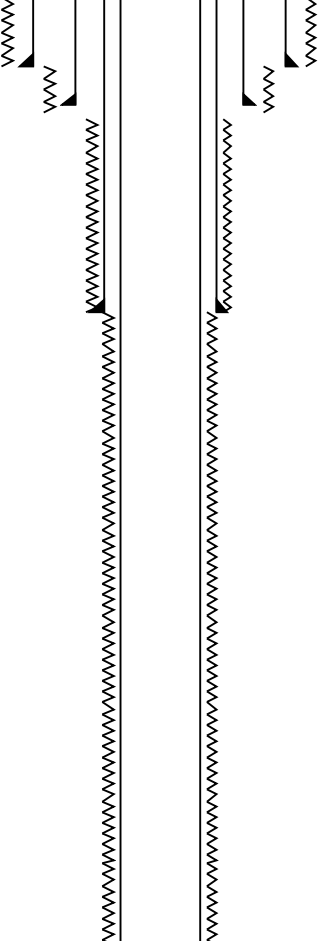
Rig Name: ENSCO 102

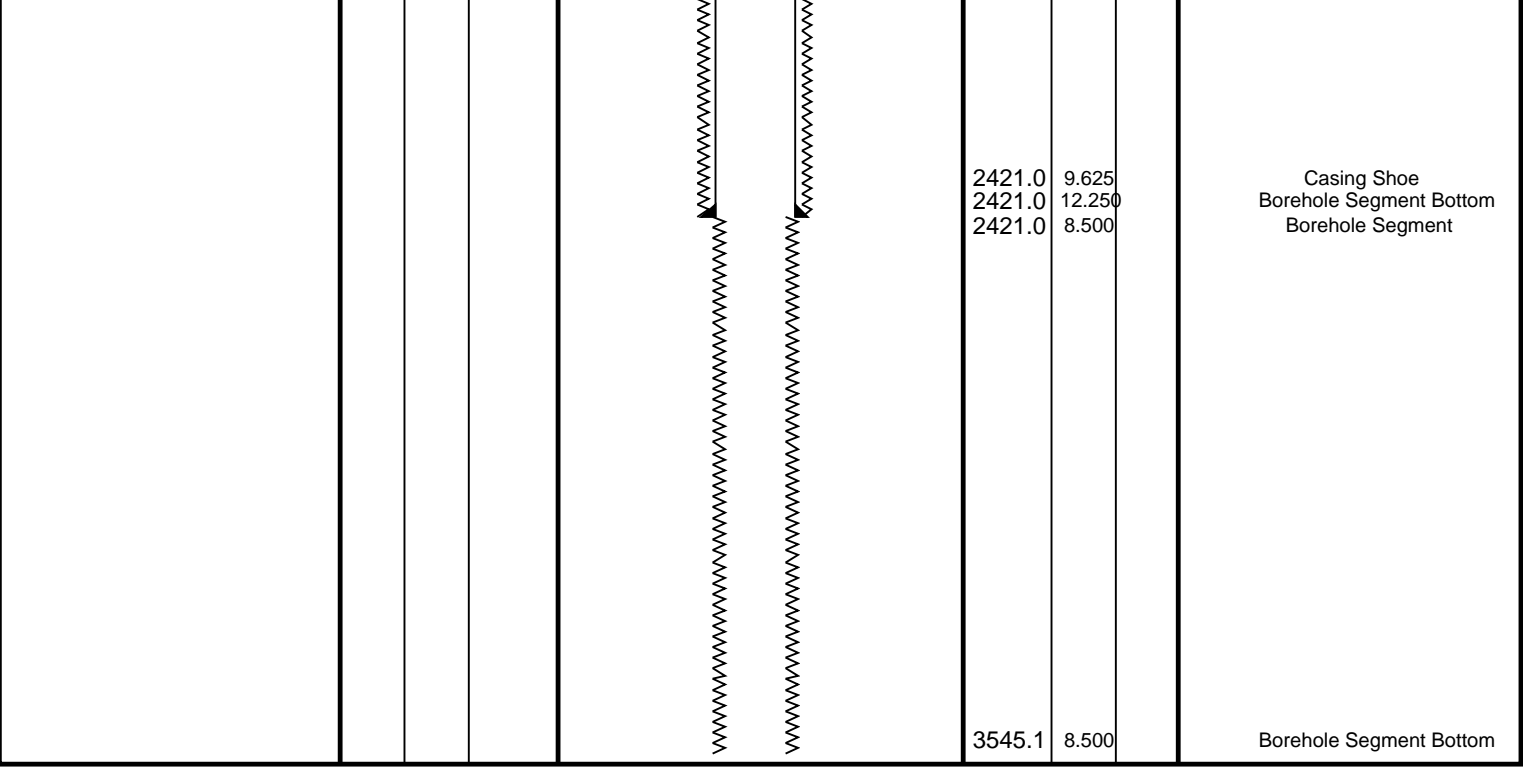
State: Tasmania

Reference Datum: Mean Sea Level

Country: Australia

Elevation: 39.6 m

| Production String | (in) | | (m) | Well Schematic | (m) | (in) | | Casing String |
|---|------|----|-----|----------------|-------|--------|----|---------------------------|
| | OD | ID | MD | | MD | OD | ID | |
|  | | | | | 0.0 | 36.000 | | Borehole Segment |
| | | | | | 0.0 | 30.000 | | Casing String, 310 lb/ft |
| | | | | | 142.6 | 30.000 | | Casing Shoe |
| | | | | | 142.6 | 26.000 | | Borehole Segment |
| | | | | | 0.0 | 20.000 | | Casing String, 133 lb/ft |
| | | | | | 214.6 | 20.000 | | Casing Shoe |
| | | | | | 214.6 | 16.000 | | Borehole Segment |
| | | | | | 0.0 | 13.375 | | Casing String, 54.5 lb/ft |
| | | | | | 659.6 | 13.375 | | Casing Shoe |
| | | | | | 659.6 | 12.250 | | Borehole Segment |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | 0.0 | 9.625 | | Casing String, 43.5 lb/ft |



Schlumberger

Core Summary

MAXIS Field Log

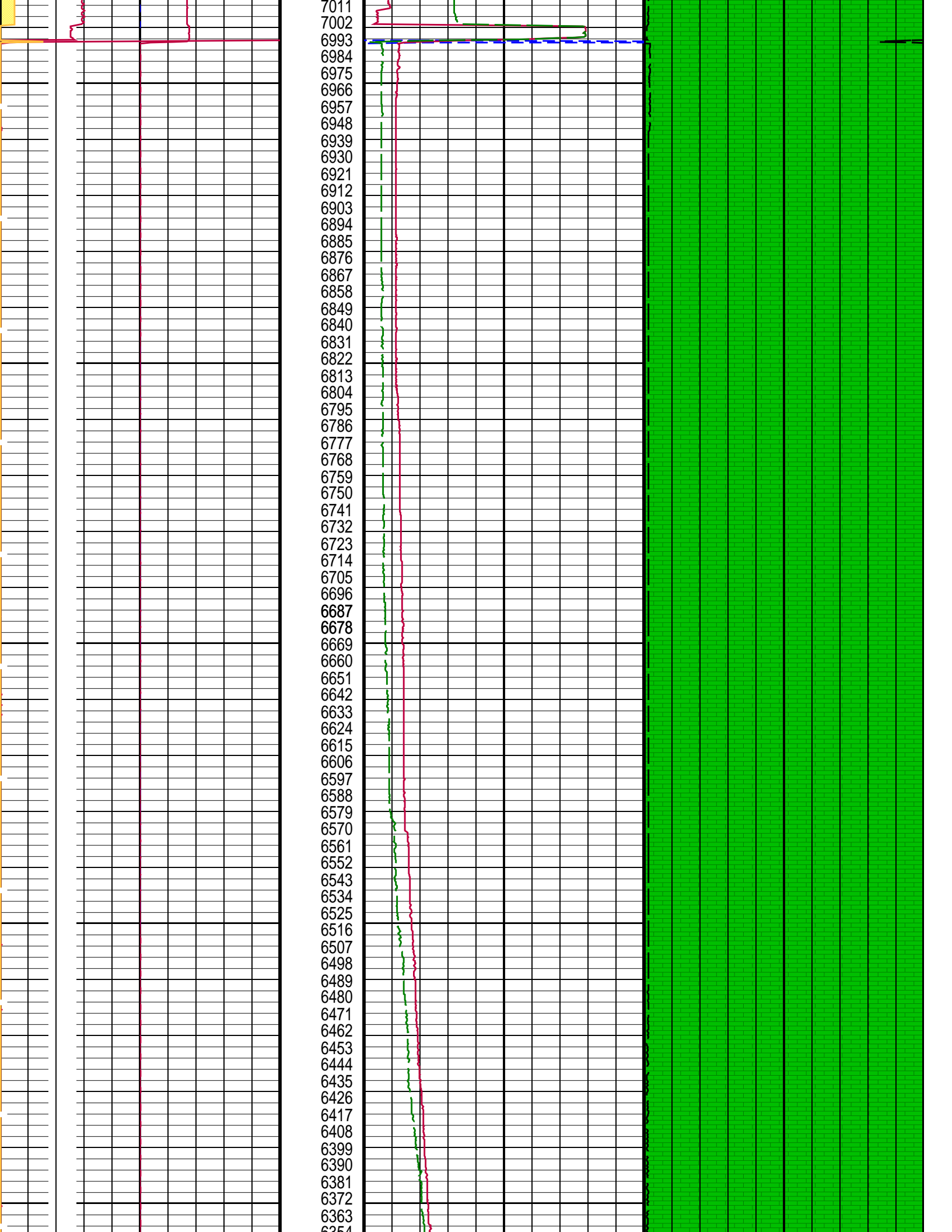
MSCT CORE REPORT

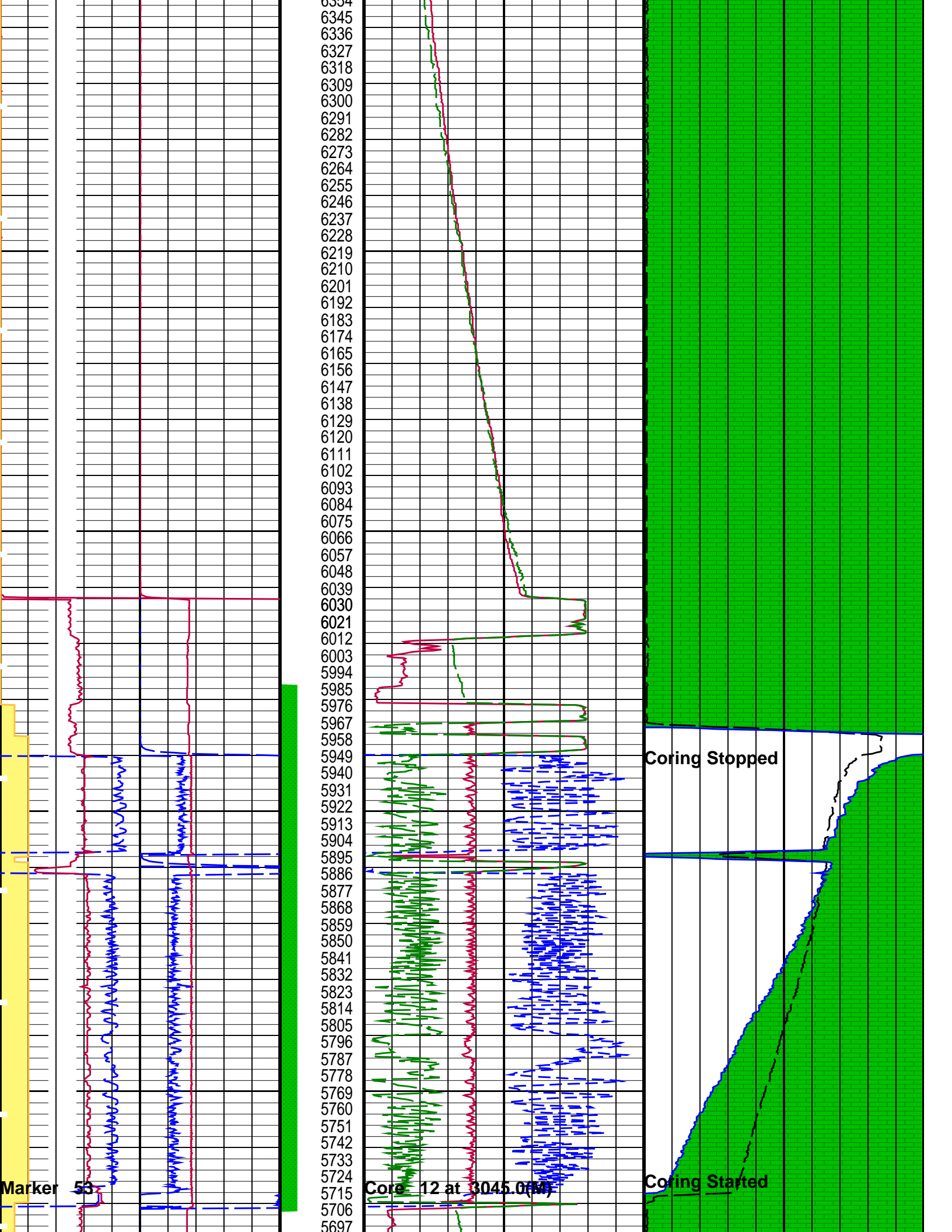
| Core | Depth | Recovery | Remark |
|------|------------|----------------|-----------------|
| 1 | 0.4 (M) | Completed | Surface |
| 2 | 1501.0 (M) | ABORTED | Check in casing |
| 3 | 2968.3 (M) | Recovered Core | Recovered |
| 4 | 2970.0 (M) | Recovered Core | Recovered |
| 5 | 2971.0 (M) | Recovered Core | Recovered |
| 6 | 2977.7 (M) | Recovered Core | Recovered |
| 7 | 2980.0 (M) | Recovered Core | Recovered |
| 8 | 2981.0 (M) | Recovered Core | Recovered |
| 9 | 2982.0 (M) | Recovered Core | Recovered |
| 10 | 2986.0 (M) | Recovered Core | Recovered |

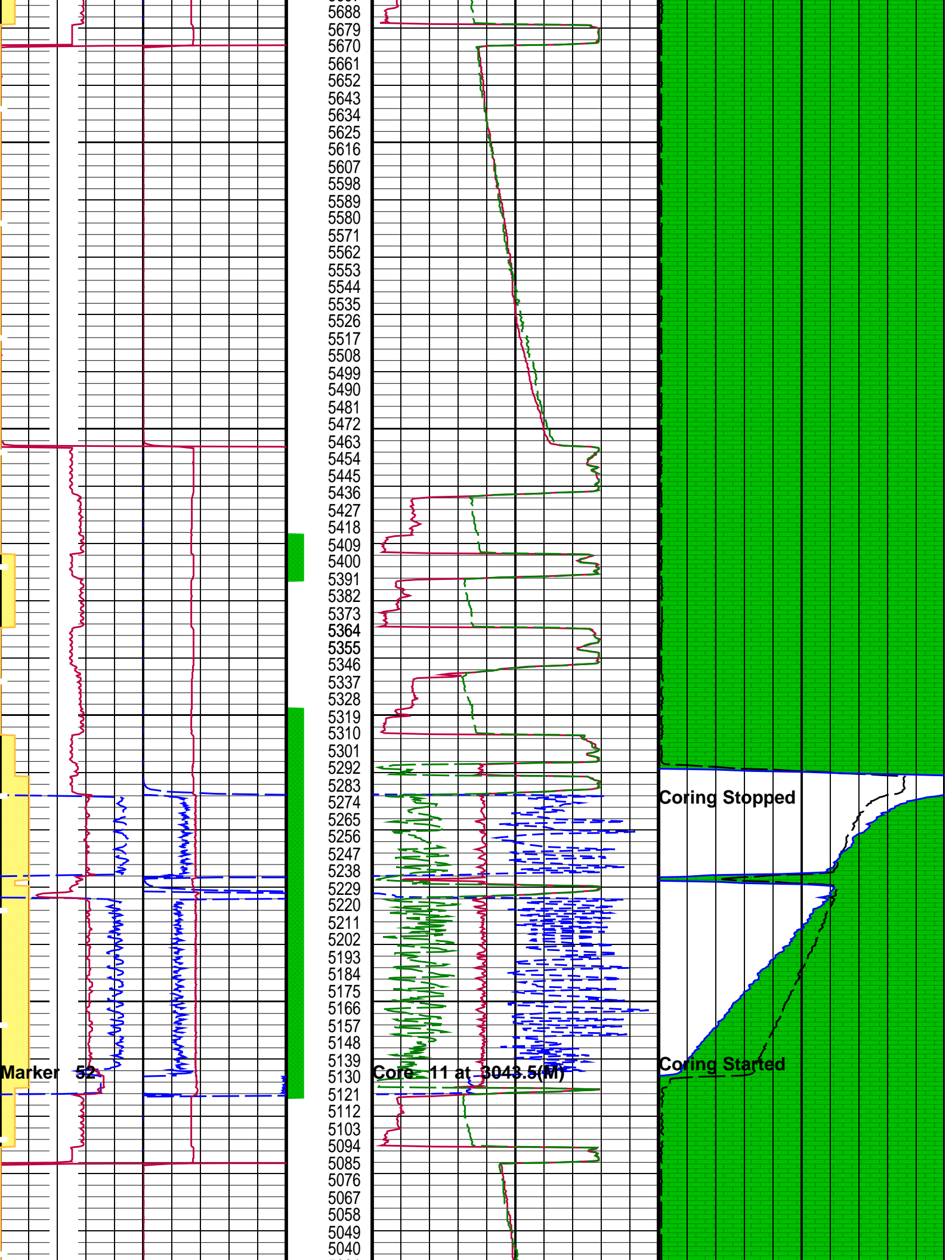
| | | | |
|----|------------|----------------|---------------------------------------|
| 11 | 2987.8 (M) | Recovered Core | Recovered |
| 12 | 2988.8 (M) | Recovered Core | Recovered |
| 13 | 2990.8 (M) | Recovered Core | Recovered |
| 14 | 2991.8 (M) | Recovered Core | Recovered |
| 15 | 2992.8 (M) | Recovered Core | Recovered |
| 16 | 2993.8 (M) | Recovered Core | Recovered |
| 17 | 2994.8 (M) | Recovered Core | Recovered |
| 18 | 2994.8 (M) | Recovered Core | Recovered |
| 19 | 2995.8 (M) | Recovered Core | Recovered |
| 20 | 2996.8 (M) | Recovered Core | Recovered |
| 21 | 2997.8 (M) | Recovered Core | Recovered |
| 22 | 2999.2 (M) | Recovered Core | Recovered |
| 23 | 3000.2 (M) | Recovered Core | Recovered |
| 24 | 3001.2 (M) | Recovered Core | Recovered |
| 25 | 3002.1 (M) | Recovered Core | Recovered |
| 26 | 3003.8 (M) | Recovered Core | Recovered |
| 27 | 3006.7 (M) | Recovered Core | Recovered |
| 28 | 3009.1 (M) | Recovered Core | Not recovered; marker disc jammed |
| 29 | 3018.2 (M) | Recovered Core | Not recovered; marker disc jammed |
| 30 | -3.9 (M) | Completed | Surface |
| 31 | -2.7 (M) | Available | Surface |
| 32 | -2.7 (M) | Completed | Surface |
| 33 | -2.7 (M) | Completed | Surface |
| 34 | -3.0 (M) | Completed | Surface |
| 35 | -3.3 (M) | ABORTED | Surface |
| 36 | -4.4 (M) | ABORTED | Surface |
| 37 | -4.4 (M) | ABORTED | Surface |
| 38 | -4.4 (M) | ABORTED | Surface |
| 39 | -4.4 (M) | ABORTED | Surface |
| 40 | -4.4 (M) | Available | Surface |
| 41 | -4.4 (M) | Completed | Surface |
| 1 | 1500.0 (M) | ABORTED | Check in casing |
| 2 | 3009.0 (M) | Recovered Core | Recovered |
| 3 | 3018.4 (M) | Recovered Core | Recovered |
| 4 | 3020.1 (M) | Recovered Core | Recovered |
| 5 | 3021.2 (M) | Recovered Core | Recovered |
| 6 | 3026.7 (M) | Recovered Core | Recovered |
| 7 | 3028.0 (M) | ABORTED | Incomplete; not recovered |
| 8 | 3027.9 (M) | Partial Core | Partial Recovery |
| 9 | 3040.5 (M) | Partial Core | Partial Recovery |
| 10 | 3042.0 (M) | Completed | Possible jammed marker; not recovered |
| 11 | 3043.5 (M) | Completed | Possible jammed marker; not recovered |
| 12 | 3045.0 (M) | Completed | Possible jammed marker; not recovered |
| 13 | 3414.0 (M) | Partial Core | Partial recovery from bit |

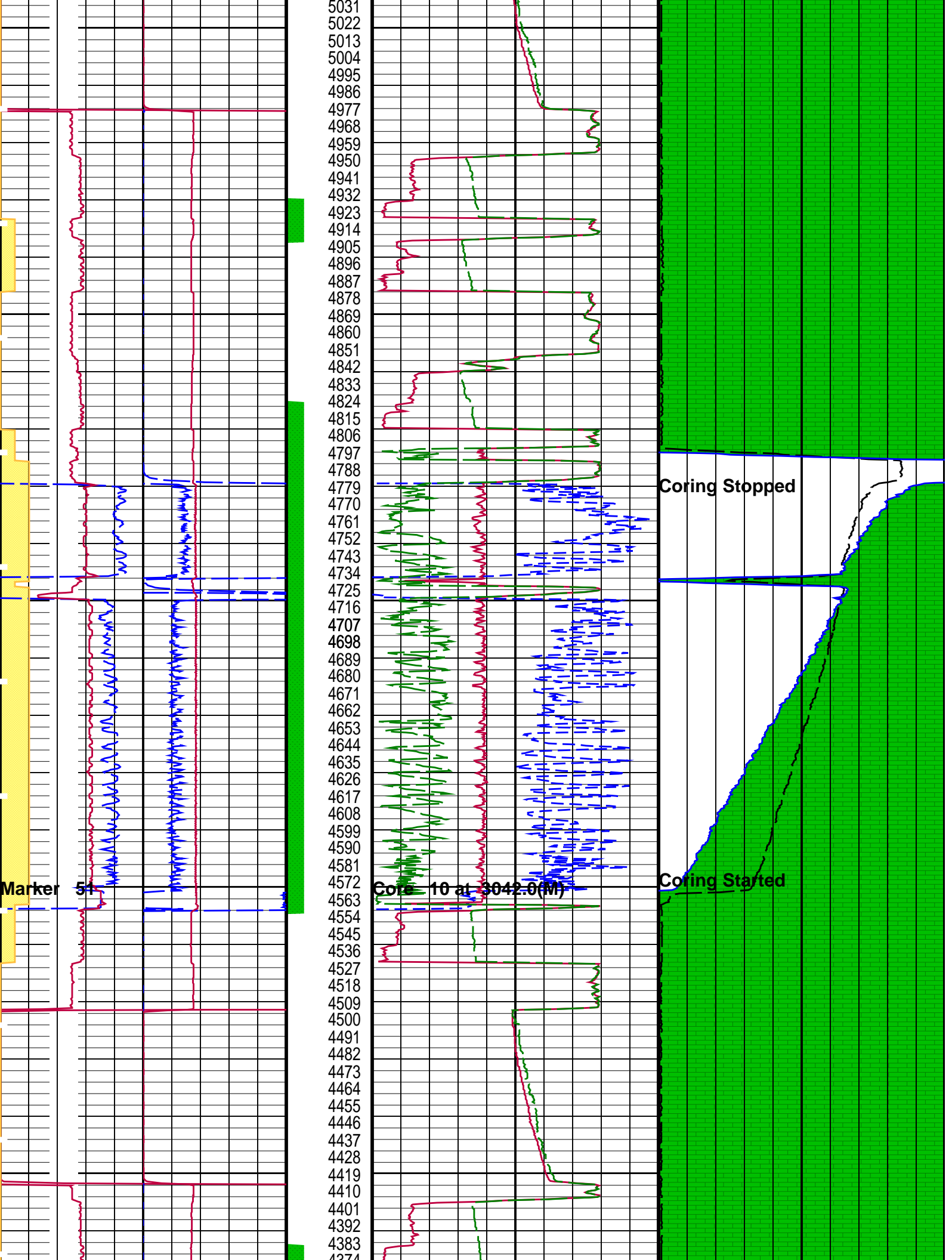
| | | | | | | |
|-------------|-------------|--------|----------|-------------------|----------|--------|
| DEFAULT | MSCT_331LTP | FN:533 | PRODUCER | 01-Dec-2004 10:30 | 3009.0 M | 18.7 M |
| BACKUP_MSCT | MSCT_331LTP | FN:534 | PRODUCER | 01-Dec-2004 10:30 | 3009.0 M | 18.7 M |

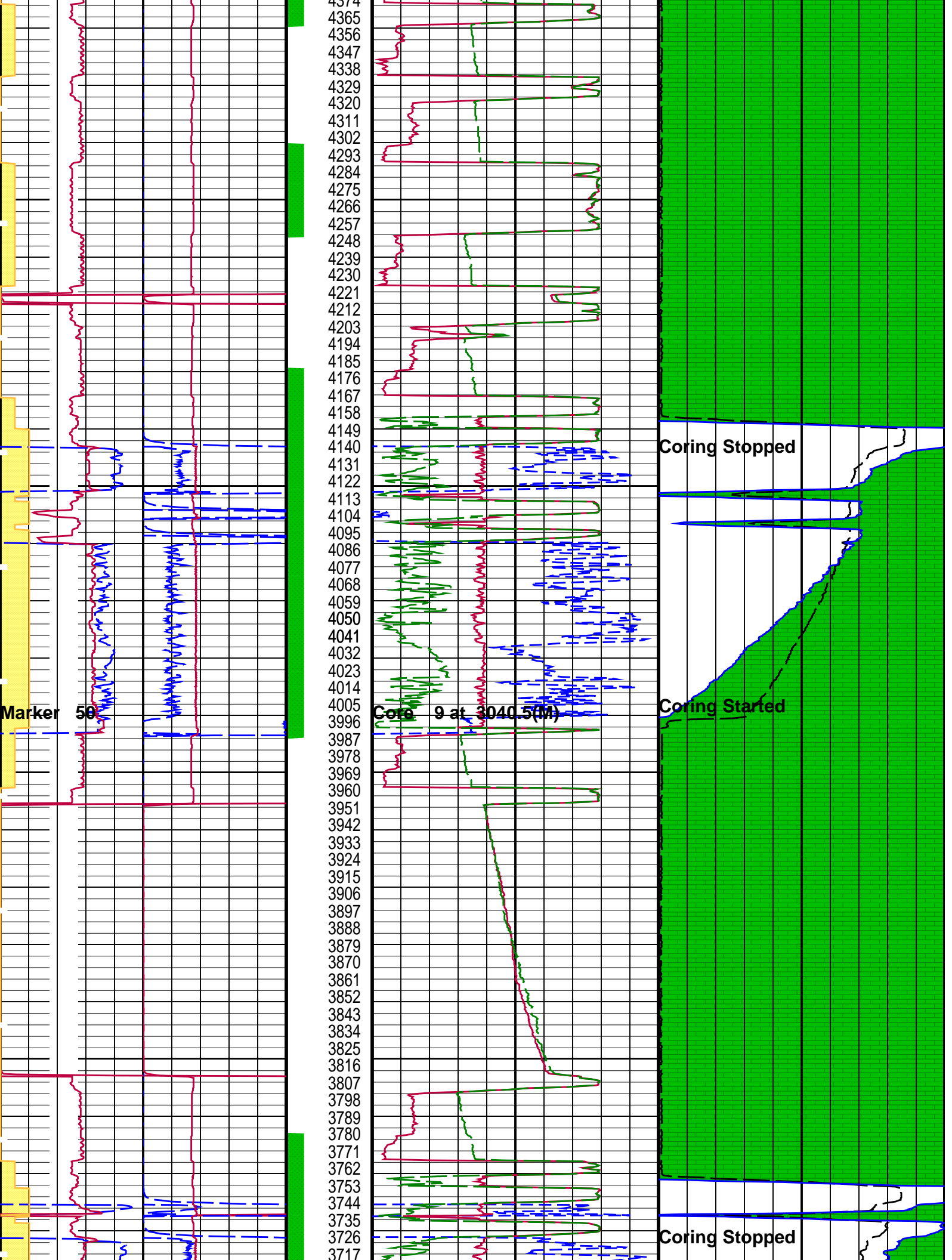
| Elapsed Time (s) | Event Summary |
|------------------|----------------------|
| 7154.4 | Coring Stopped |
| 7042.8 | Coring Started |
| 7039.6 | Marker 54 |
| 7039.6 | Core 13 at 3414.0(M) |
| 5947.2 | Coring Stopped |
| 5720.4 | Coring Started |
| 5717.6 | Marker 53 |
| 5717.6 | Core 12 at 3045.0(M) |
| 5276.0 | Coring Stopped |
| 5136.8 | Coring Started |
| 5132.0 | Marker 52 |
| 5132.0 | Core 11 at 3043.5(M) |
| 4779.2 | Coring Stopped |
| 4572.8 | Coring Started |
| 4568.0 | Marker 51 |
| 4568.0 | Core 10 at 3042.0(M) |
| 4139.6 | Coring Stopped |
| 4004.0 | Coring Started |
| 4000.8 | Marker 50 |
| 4000.8 | Core 9 at 3040.5(M) |
| 3725.6 | Coring Stopped |
| 3474.8 | Coring Started |
| 3470.4 | Marker 49 |
| 3470.4 | Core 8 at 3027.9(M) |
| 3272.0 | Coring Stopped |
| 2642.0 | Coring Started |
| 2637.2 | Marker 48 |
| 2637.2 | Core 7 at 3028.0(M) |
| 2390.8 | Coring Stopped |
| 1935.2 | Coring Started |
| 1930.0 | Marker 47 |
| 1930.0 | Core 6 at 3026.7(M) |
| 1687.2 | Coring Stopped |
| 1435.2 | Coring Started |
| 1430.0 | Marker 46 |
| 1430.0 | Core 5 at 3021.2(M) |
| 1201.2 | Coring Stopped |
| 1016.8 | Coring Started |
| 1011.6 | Marker 45 |
| 1011.6 | Core 4 at 3020.1(M) |
| 766.8 | Coring Stopped |
| 598.8 | Coring Started |
| 593.6 | Marker 44 |
| 593.6 | Core 3 at 3018.4(M) |

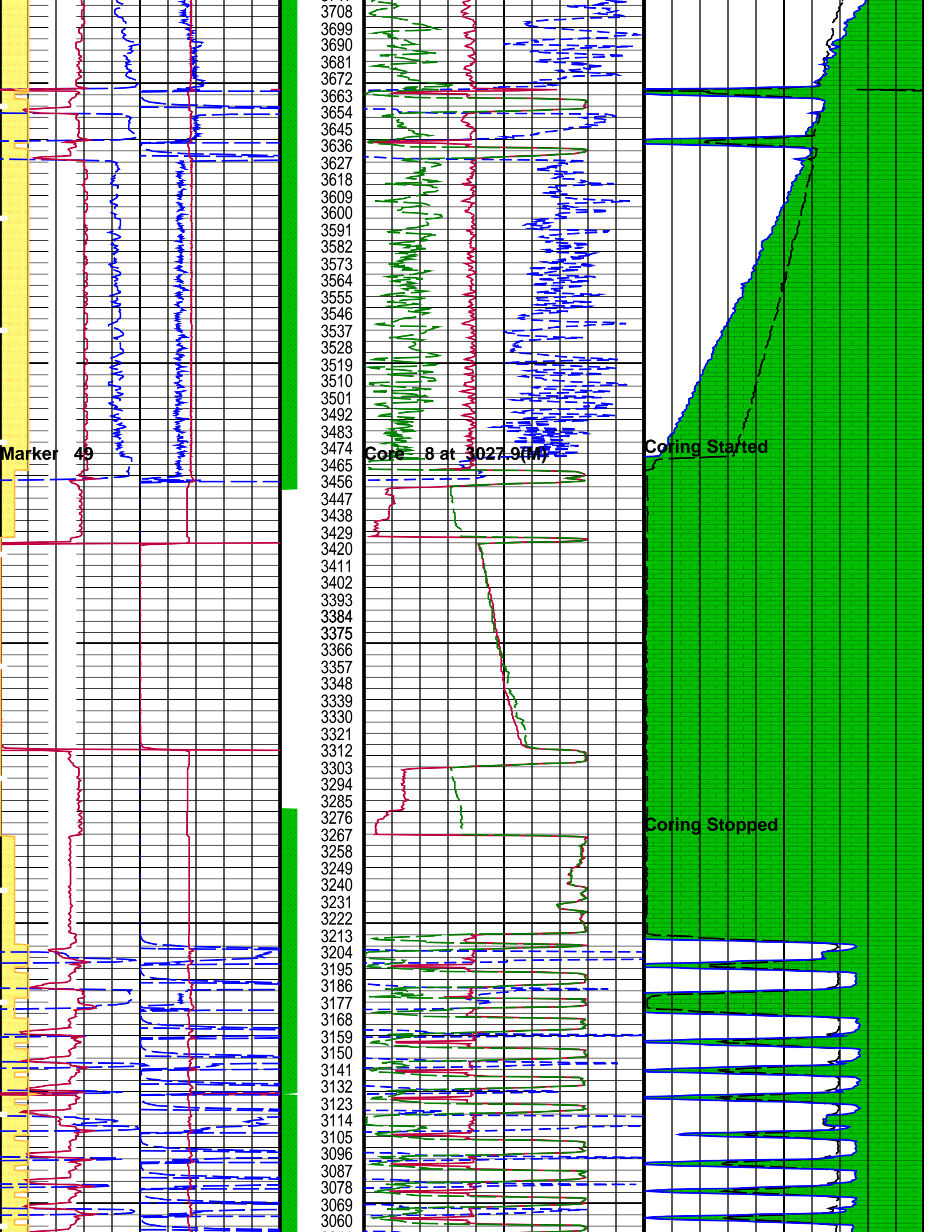


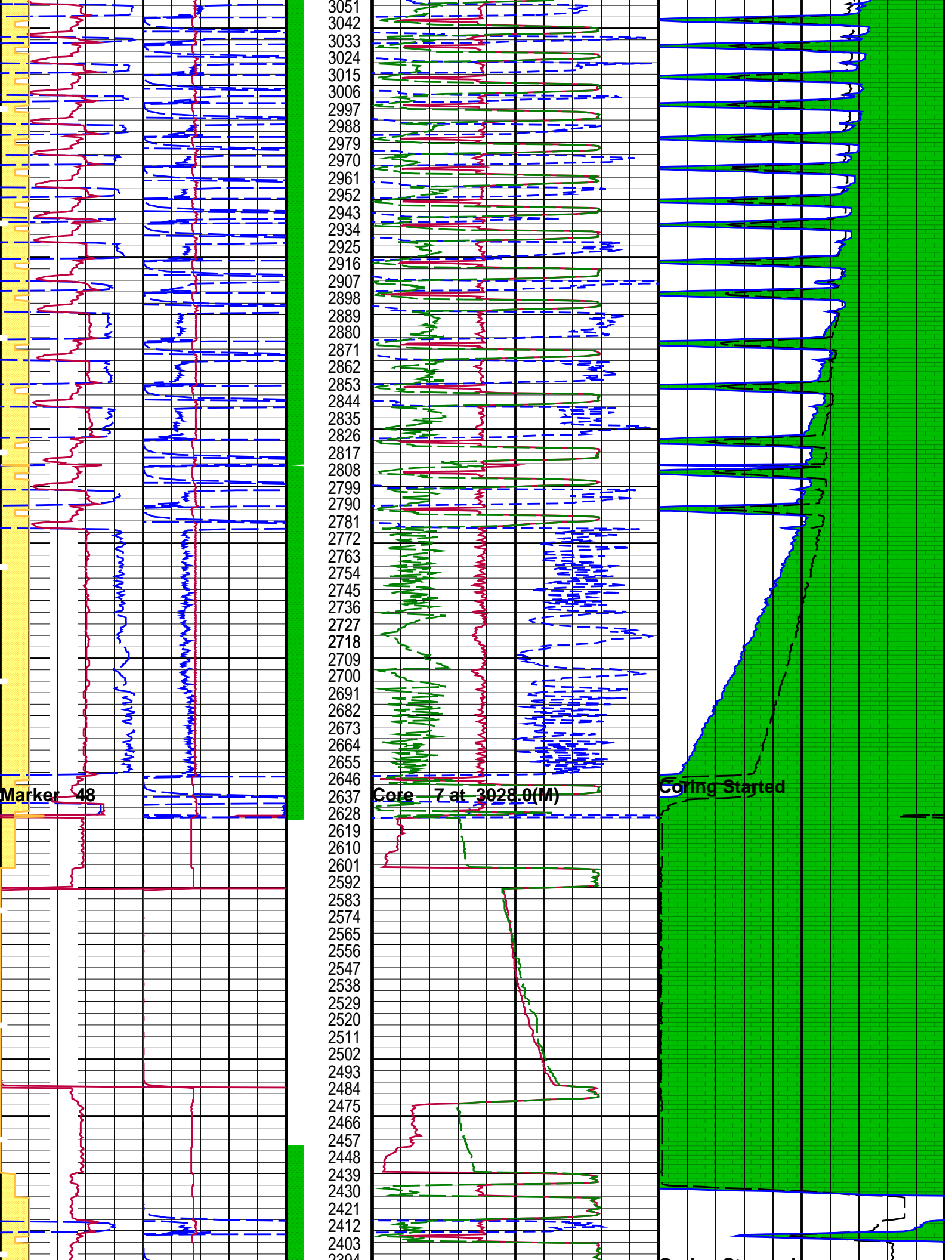


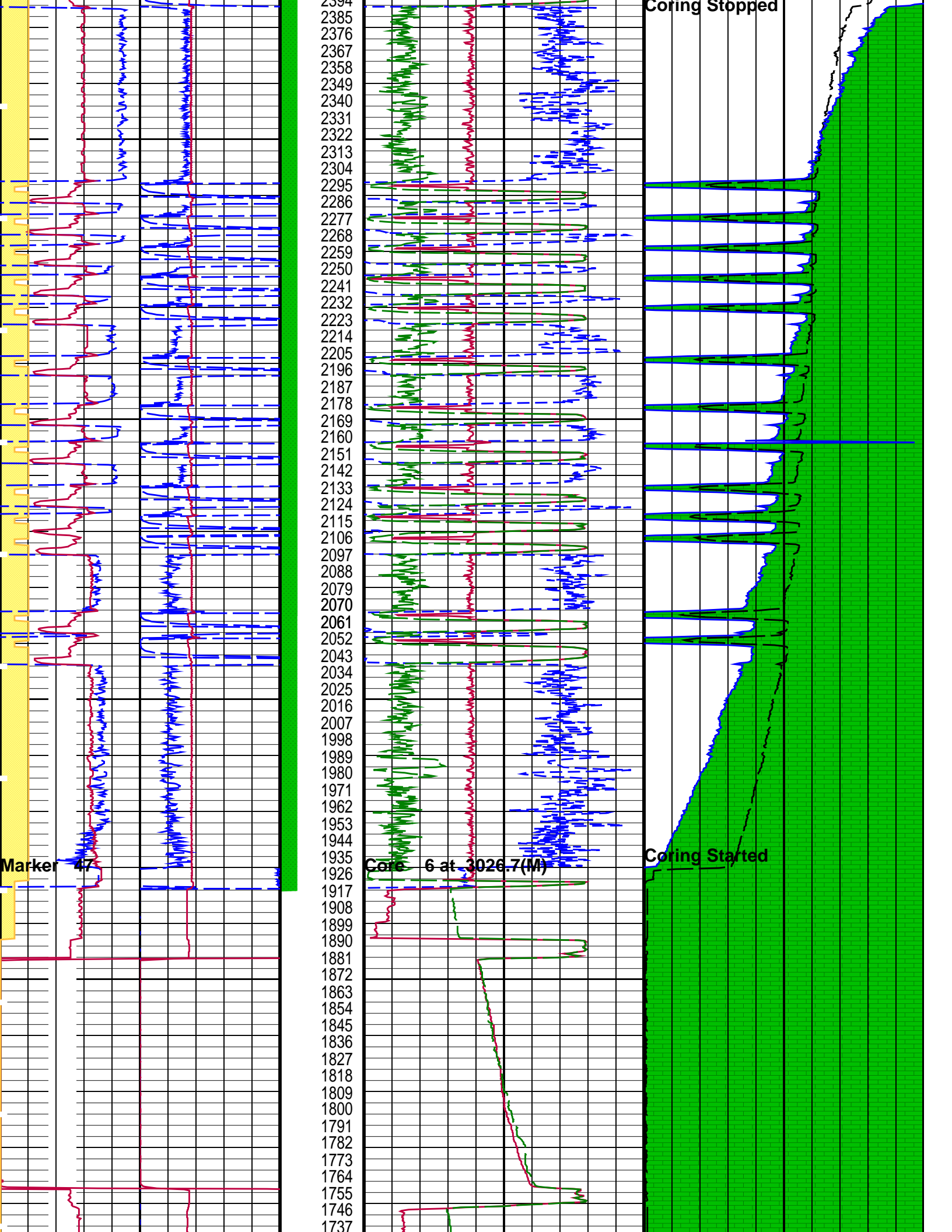


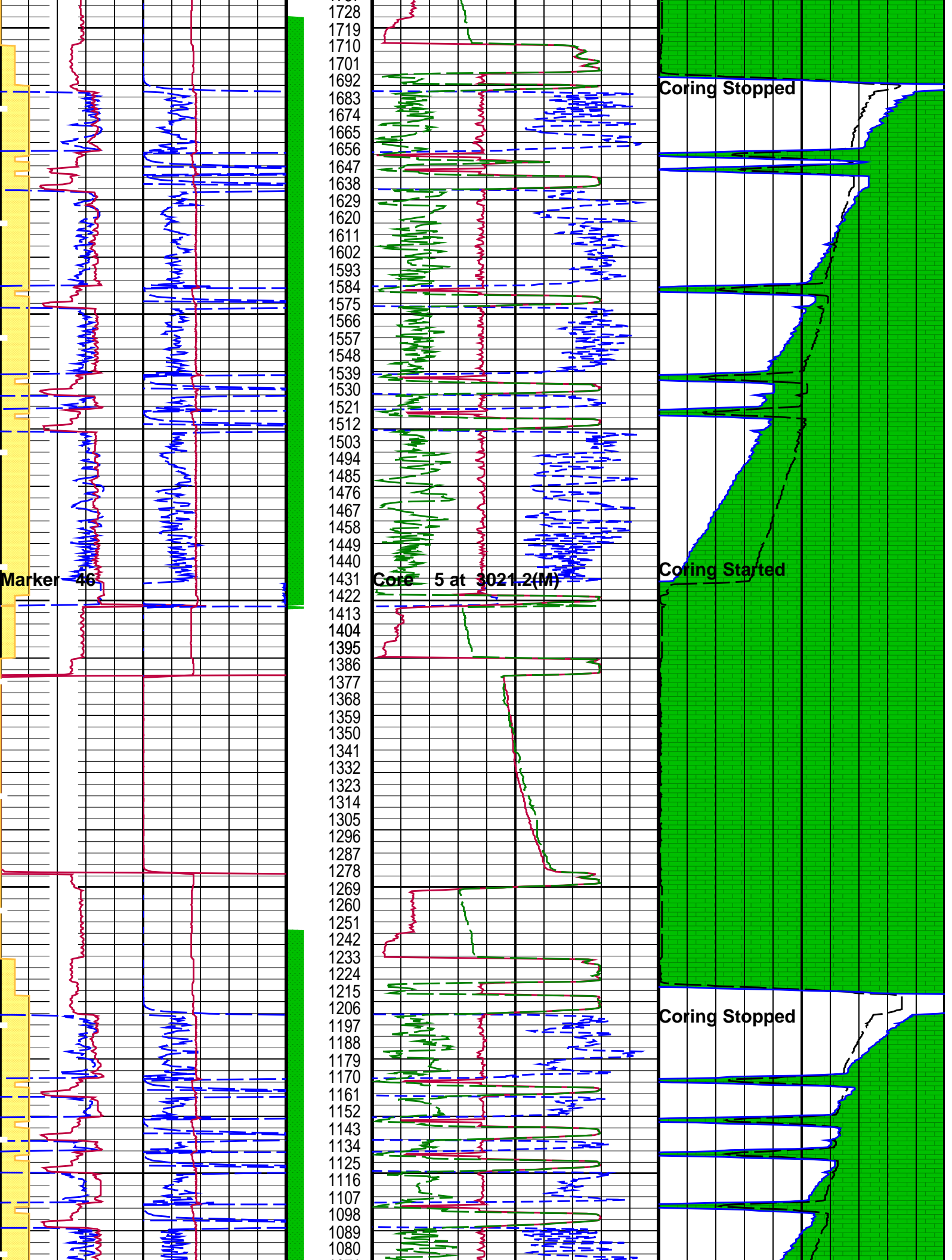


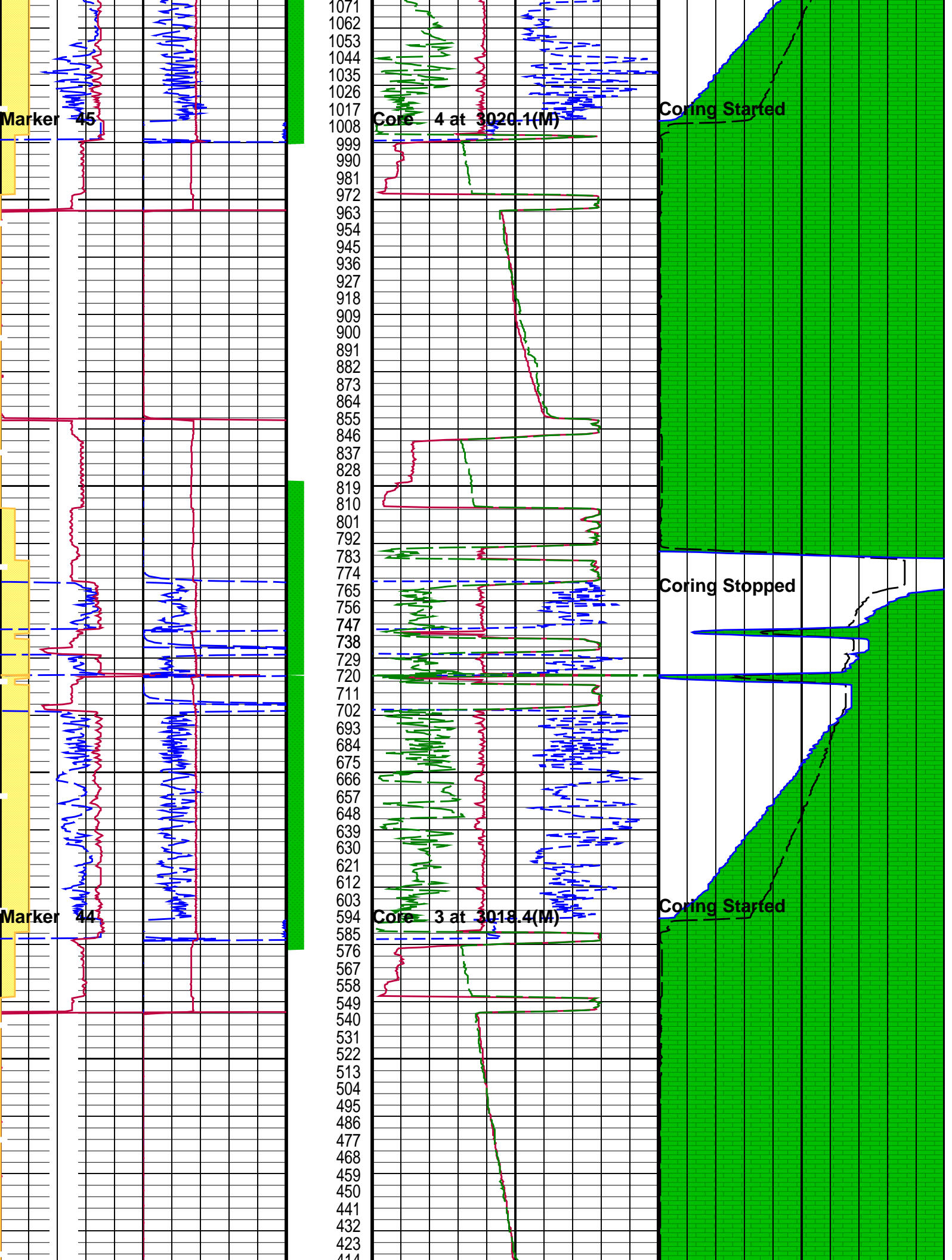


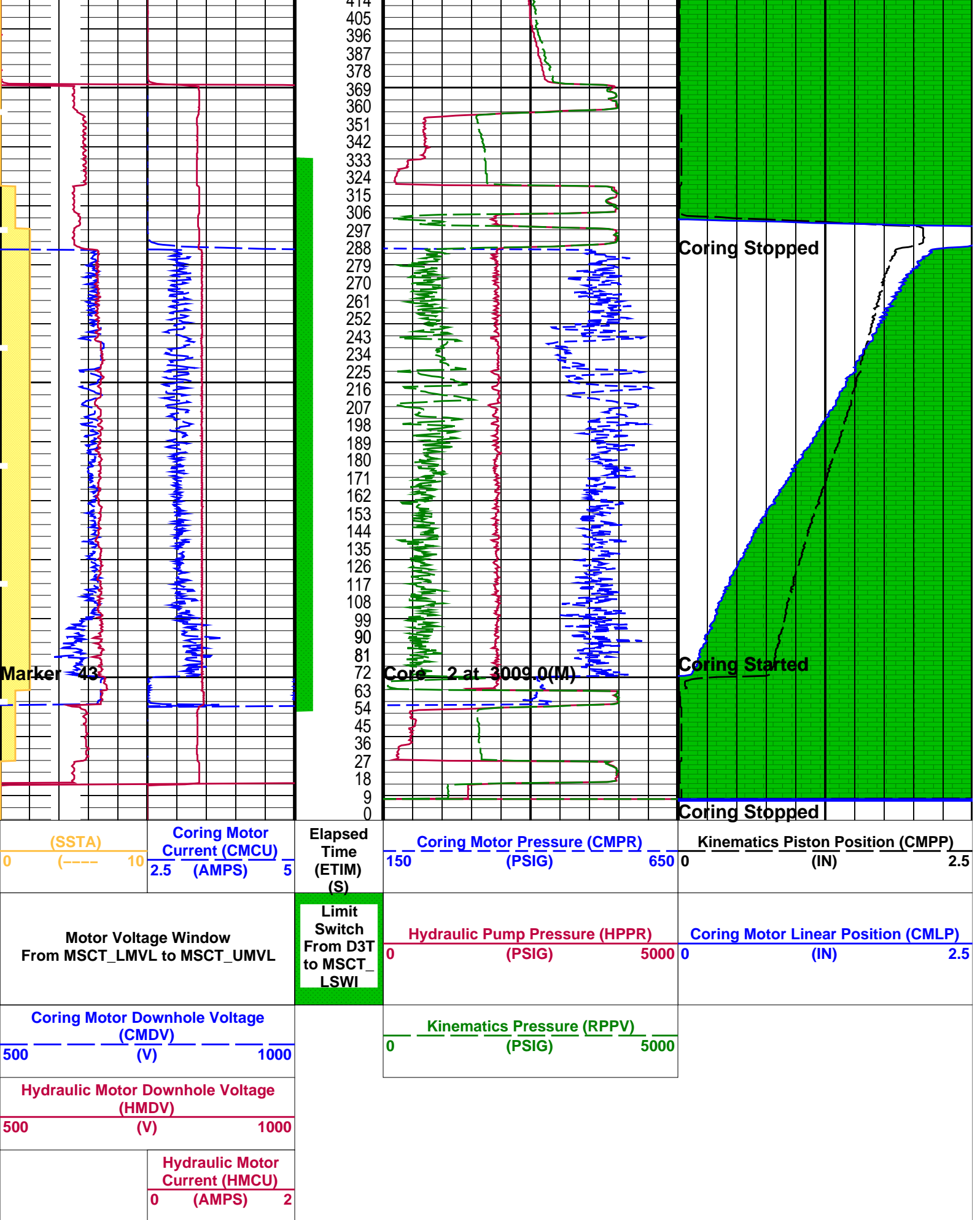













PIP SUMMARY

Time Mark Every 60 S

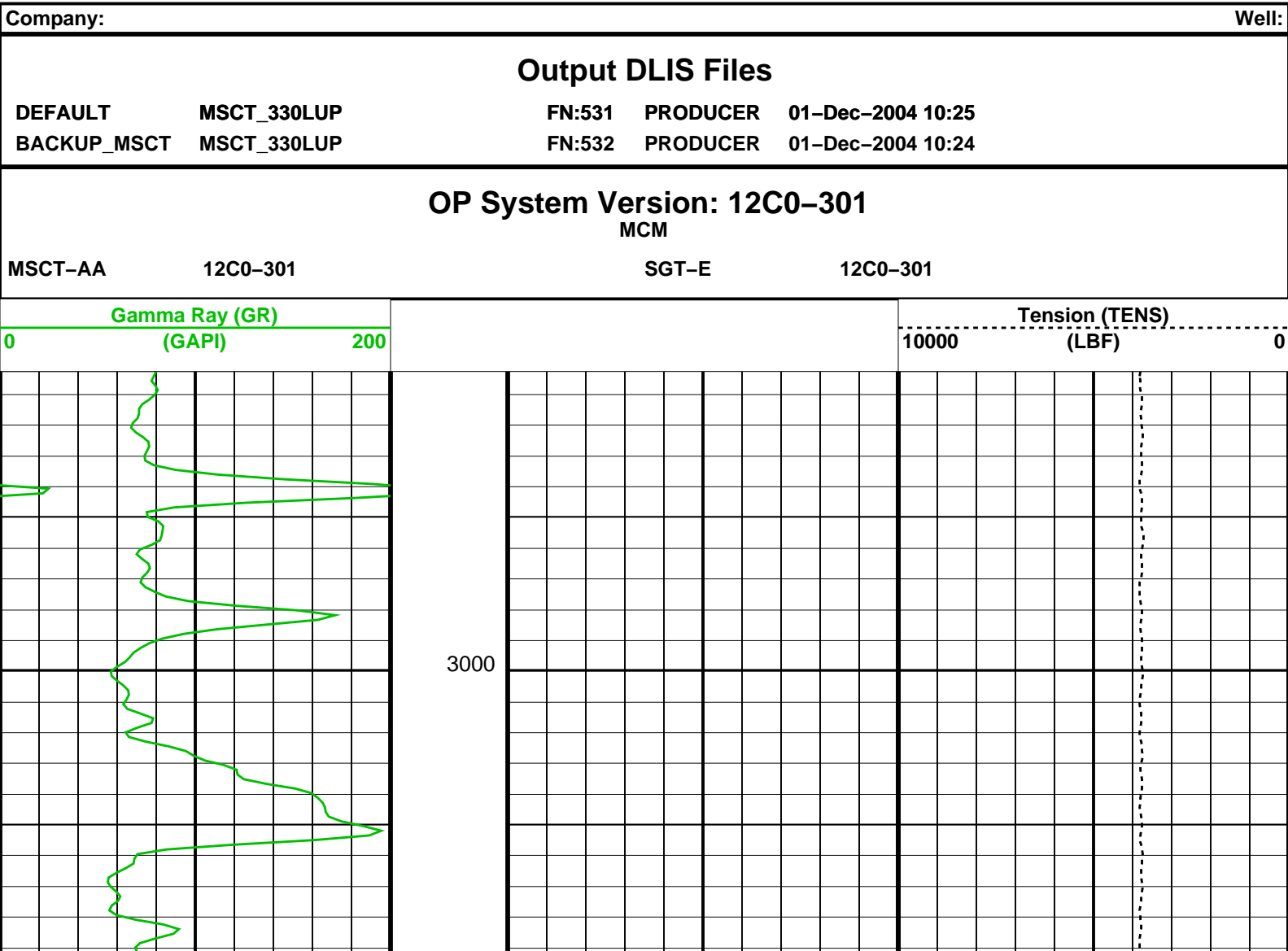
Parameters

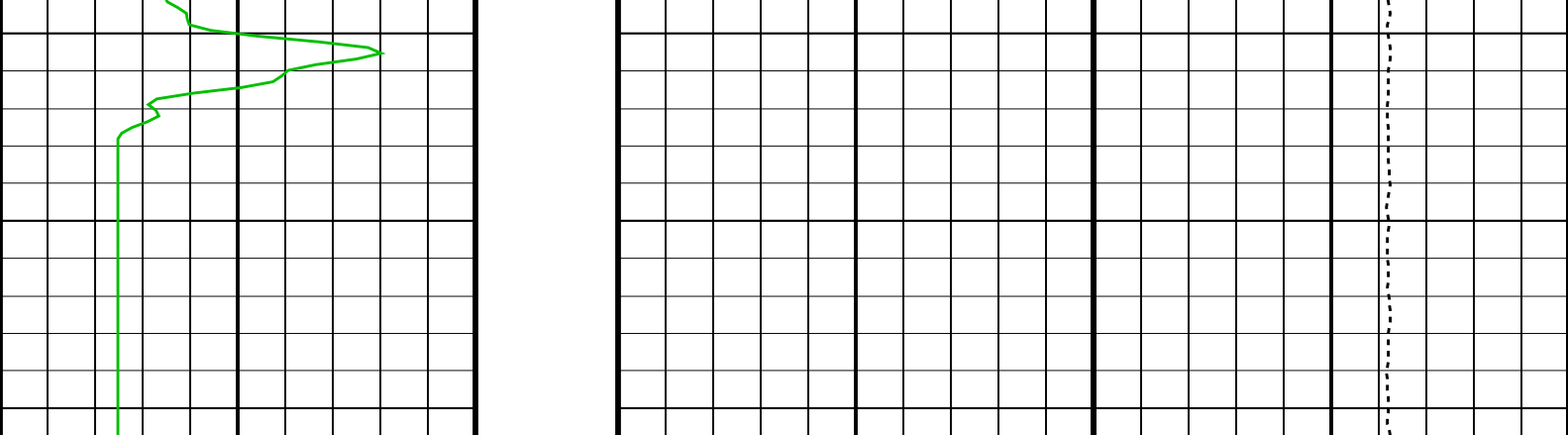
| Parameters | | | |
|--|-------------|----------------------------|--|
| DLIS Name | Description | Value | |
| MSCT-AA: Mechanical Sidewall Coring Tool SOFF | Standoff | 0 IN | |
| Format: MSCT_PROPRIETARY_ALL_Station | | Vertical Scale: 1" per 60S | Graphics File Created: 01-Dec-2004 10:30 |
| OP System Version: 12C0-301 MCM | | | |
| MSCT-AA | 12C0-301 | SGT-E | 12C0-301 |
| Output DLIS Files | | | |
| DEFAULT | MSCT_331LTP | FN:533 | PRODUCER 01-Dec-2004 10:30 |
| BACKUP_MSCT | MSCT_331LTP | FN:534 | PRODUCER 01-Dec-2004 10:30 |



Correlation Pass

MAXIS Field Log





Format: CORRELATION Vertical Scale: 1:200 Graphics File Created: 01-Dec-2004 10:25

OP System Version: 12C0-301
MCM
MSCT-AA 12C0-301 SGT-E 12C0-301

Output DLIS Files
DEFAULT MSCT_330LUP FN:531 PRODUCER 01-Dec-2004 10:25
BACKUP_MSCT MSCT_330LUP FN:532 PRODUCER 01-Dec-2004 10:24



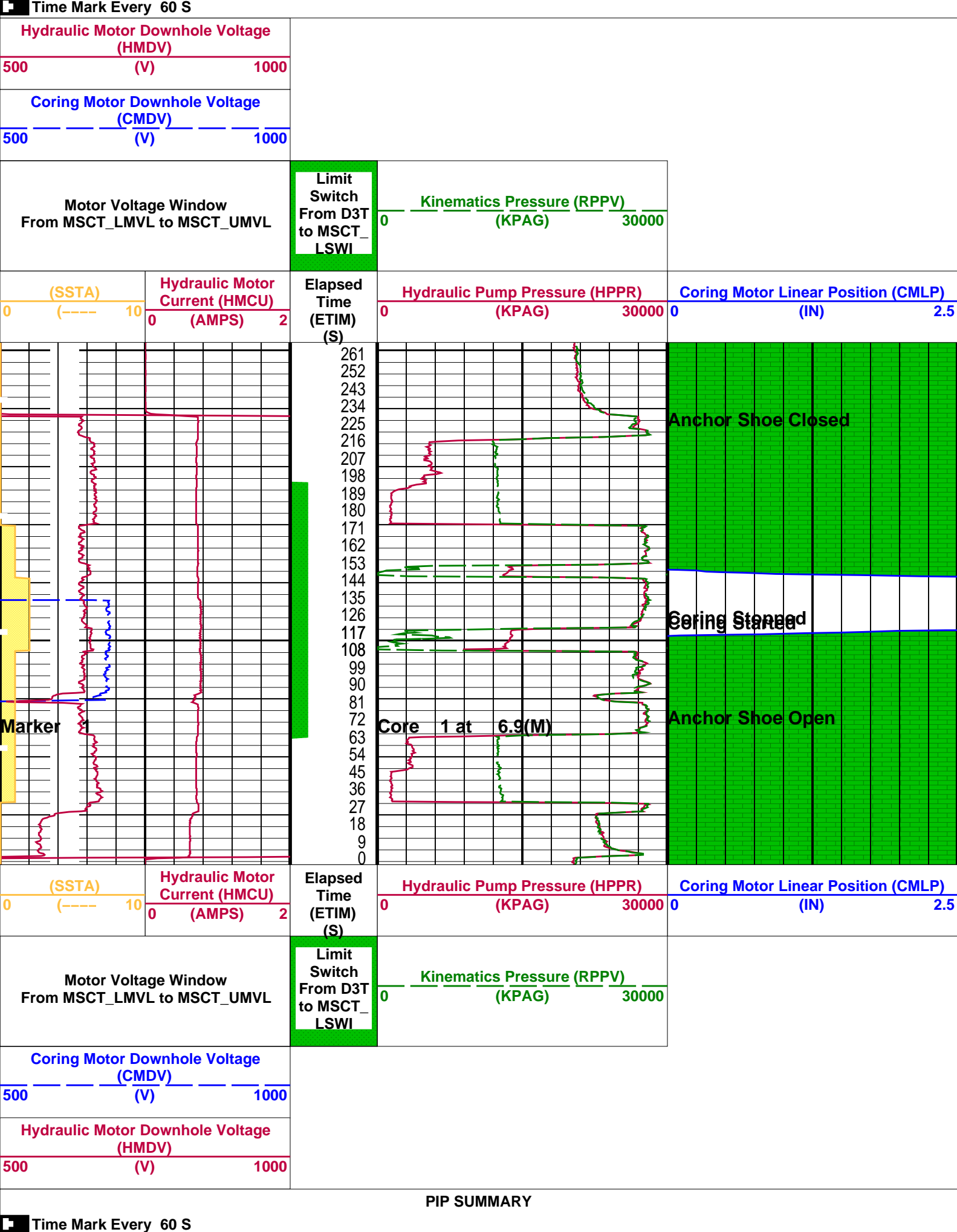
Calibration Summary

MAXIS Field Log

Company: Well:

Output DLIS Files
DEFAULT MSCT_201LTP FN:287 PRODUCER 28-Nov-2004 17:40 6.9 M 0.7 M
MSCT_B_UP MSCT_201LTP FN:288 PRODUCER 28-Nov-2004 17:40 6.9 M 0.7 M

| Elapsed Time (s) | Event Summary |
|------------------|--------------------|
| 226.4 | Anchor Shoe Closed |
| 123.6 | Coring Stopped |
| 121.2 | Coring Started |
| 72.4 | Anchor Shoe Open |
| 68.0 | Marker 1 |
| 68.0 | Core 1 at 6.9(M) |



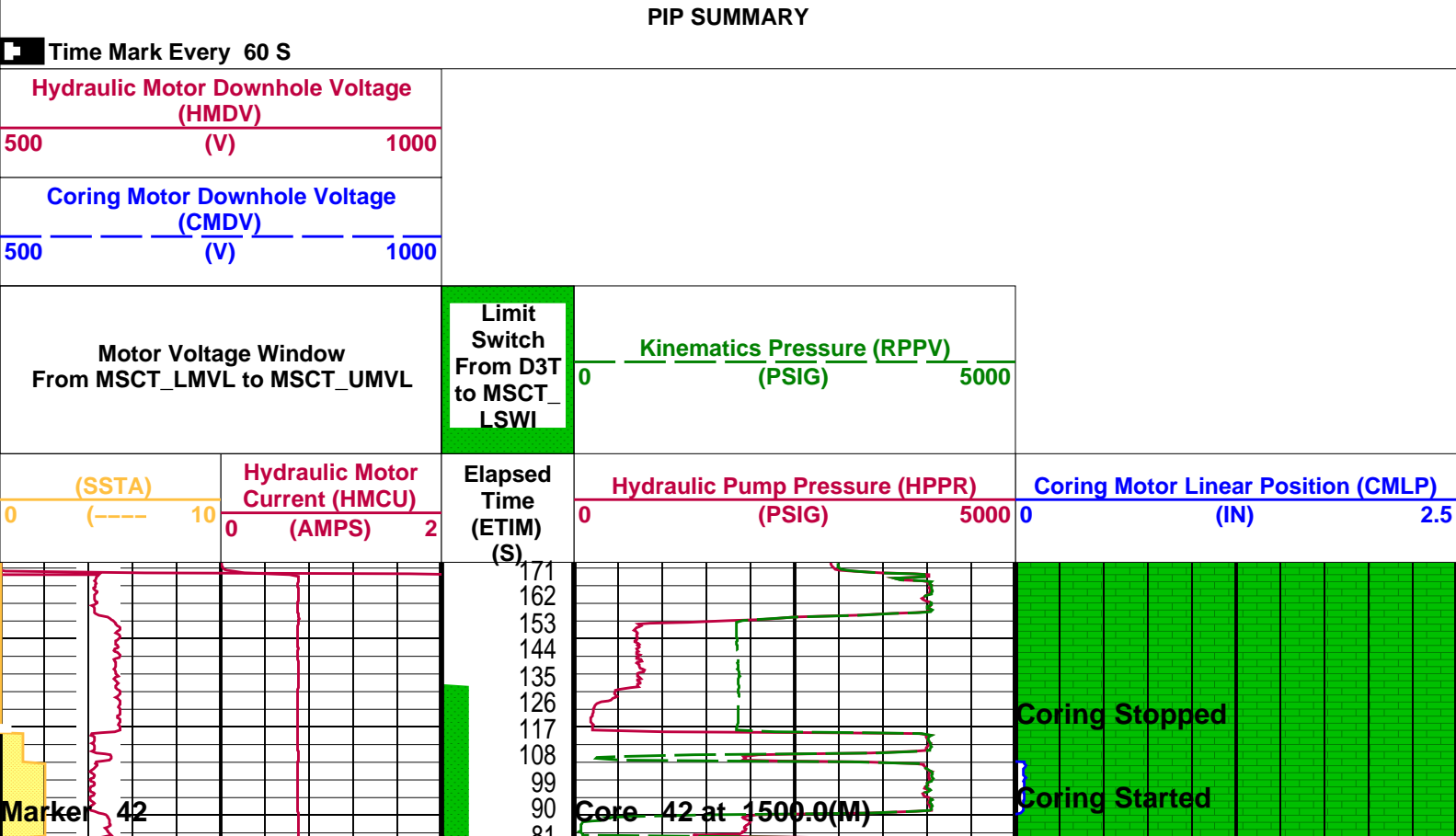
| DLIS Name | | Description | | Value | |
|--|--|----------------------------|--|--|--|
| MSCT-AA: Mechanical Sidewall Coring Tool | | SOFF | | Standoff | |
| | | | | 0 IN | |
| Format: MSCT_CUST_ALL_Station | | Vertical Scale: 1" per 60S | | Graphics File Created: 28-Nov-2004 17:40 | |
| OP System Version: 12C0-301 | | | | | |
| MCM | | | | | |
| MSCT-AA | | 12C0-301 | | SGT-E 12C0-301 | |
| Output DLIS Files | | | | | |
| DEFAULT | | MSCT_201LTP | | FN:287 PRODUCER 28-Nov-2004 17:40 | |
| MSCT_B_UP | | MSCT_201LTP | | FN:288 PRODUCER 28-Nov-2004 17:40 | |

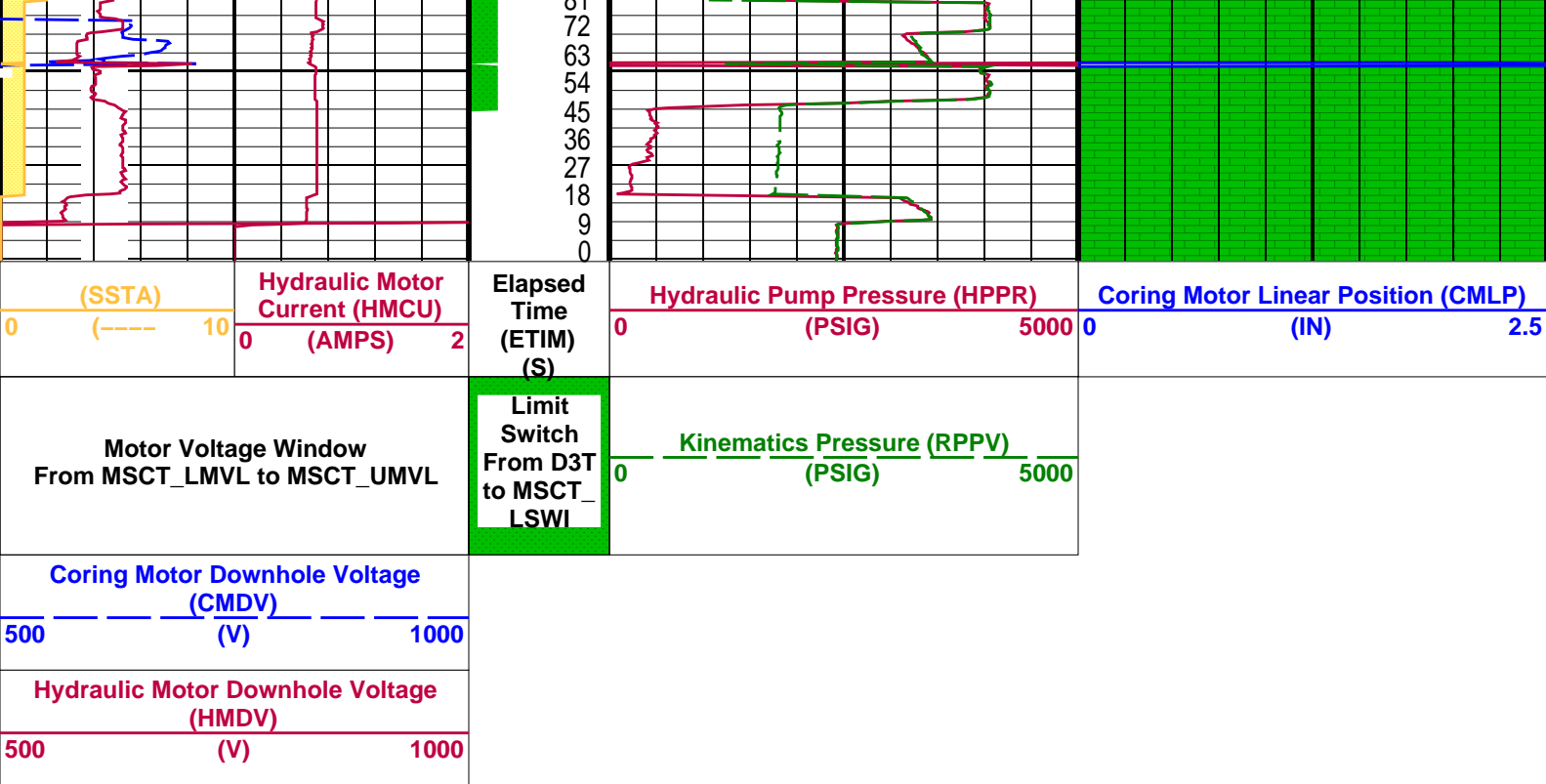
Company:

Well:

| Output DLIS Files | | | | | | |
|-------------------|-------------|--------|----------|-------------------|----------|-------|
| DEFAULT | MSCT_327LTP | FN:525 | PRODUCER | 01-Dec-2004 09:40 | 1500.0 M | 0.4 M |
| BACKUP_MSCT | MSCT_327LTP | FN:526 | PRODUCER | 01-Dec-2004 09:39 | 1500.0 M | 0.4 M |

| Elapsed Time (s) | Event Summary |
|------------------|----------------------|
| 121.6 | Coring Stopped |
| 93.2 | Coring Started |
| 88.4 | Marker 42 |
| 88.4 | Core 42 at 1500.0(M) |





| | | | | |
|--|--|----------------------------|--|--|
| PIP SUMMARY | | | | |
| Time Mark Every 60 S | | | | |
| Parameters | | | | |
| DLIS Name | | Description | | Value |
| MSCT-AA: Mechanical Sidewall Coring Tool | | SOFF | | 0 IN |
| Standoff | | | | |
| Format: MSCT_CUST_ALL_Station | | Vertical Scale: 1" per 60S | | Graphics File Created: 01-Dec-2004 09:40 |
| OP System Version: 12C0-301 | | | | |
| MCM | | | | |
| MSCT-AA | | 12C0-301 | | SGT-E 12C0-301 |
| Output DLIS Files | | | | |
| DEFAULT | | MSCT_327LTP | | FN:525 PRODUCER 01-Dec-2004 09:40 |
| BACKUP_MSCT | | MSCT_327LTP | | FN:526 PRODUCER 01-Dec-2004 09:39 |

| | | | | | | | |
|---|---------|--------|--------|-------|--------|-------|-------|
| Calibration and Check Summary | | | | | | | |
| Measurement | Nominal | Master | Before | After | Change | Limit | Units |
| Mechanical Sidewall Coring Tool Wellsite Calibration – MSCT Piston Position Calibration | | | | | | | |
| Before: 1-Dec-2004 8:23 | | | | | | | |
| Zero | 0 | N/A | 0.5500 | N/A | N/A | N/A | IN |
| Plus | 2.140 | N/A | 2.699 | N/A | N/A | N/A | IN |
| Scintillation Gamma-Ray – E Wellsite Calibration – Detector Calibration | | | | | | | |
| Before: 21-Nov-2004 19:57 | | | | | | | |
| Gamma Ray (Jig – Bkg) | 220.0 | N/A | 220.0 | N/A | N/A | 20.00 | GAPI |
| Gamma Ray (Calibrated) | 165.0 | N/A | 165.0 | N/A | N/A | 15.00 | GAPI |

Primary Equipment:
Mechanical Sidewall Corer Twenty Five Co
Mechanical Sidewall Corer Mechanical Uni
Mechanical Sidewall Corer Bit
Mechanical Sidewall Corer Electronics Ca

MCFU – AA
MCMU – AA
BIT – AA
MCEC – AA

Auxiliary Equipment:
Electronics Cartridge Housing

ECH – KS

Scintillation Gamma-Ray – E / Equipment Identification

Primary Equipment:
Scintillation Gamma Cartridge
Scintillation Gamma Detector

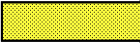


SGC – JC
SGD – TAA

Auxiliary Equipment:
Electronics Cartridge Housing
Gamma Source Radioactive

ECH – KG
GSR – U/Y

Scintillation Gamma-Ray – E Wellsite Calibration

Detector Calibration

| Phase | Gamma Ray Background | GAPI | Value | Phase | Gamma Ray (Jig – Bkg) | GAPI | Value | Phase | Gamma Ray (Calibrated) | GAPI | Value |
|----------------|--|--------------------|-------|--------------------|---|--------------------|-------|--------------------|---|--------------------|-------|
| Before |  | | 3.301 | Before |  | | 220.0 | Before |  | | 165.0 |
| 0 (Minimum) | 30.00 (Nominal) | 120.0 (Maximum) | | 200.0 (Minimum) | 220.0 (Nominal) | 240.0 (Maximum) | | 150.0 (Minimum) | 165.0 (Nominal) | 180.0 (Maximum) | |

Before: 21-Nov-2004 19:57

Company: **Origin Energy Resources Ltd.**

Schlumberger

Well: **Trefoil-1**
Field: **Trefoil**
Rig: **ENSCO 102**
Country: **Australia**

MSCT-GR
Multiple Sidewall Coring Tool
Coring Survey