

							MUD						Rig:	ENSCO 102	
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Run 4

DEPTH SUMMARY LISTING

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

Depth System Equipment

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

Depth Control Parameters

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

Depth Control Remarks

1. Subsequent Run in Hole. Log correlated to Schlumberger SP-HRLA-PEX-CMR-GR log, dated 24-Nov-01.
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.

DISCLAIMER

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.

OTHER SERVICES1

OS1: SP-HRLA-PEX-CMR-G

OS2: VSI-GR

OS3: MDT-GR

OS4: FMI-DSI-HNGS

OS5:

REMARKS: RUN NUMBER 1

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 3018.2m. Logs showed core pusher piston was not fully extended and marker

discs were jamming. The last two cores were thus not recovered.

Coring was attempted at 26 depths: 24 cores were recovered to surface.

Calibrations at end of log show coring bit set at surface for surface calibration and markers dropped when tool set

in casing at 1501m.

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

Maximum hole deviation from Sperry Sun Survey.

Maximum recored temperature was 128degC from thermometers in logging head (Run 5).

Mud data taken from Baroid Mud Report, 23-NOV-2004, from flowline sample taken at 20:00.

Additional mud data: PV/YP = 49degC/51lbs/100ft2, Gels = 3/4/7 lbs/100ft2, LGS/HGS = 5.0/0.9%.

RUN 1					
SERVICE ORDER #:					
PROGRAM VERSION:		12C0-301			
FLUID LEVEL:		0 m			

EQUIPMENT DESCRIPTION

RUN 1

SURFACE EQUIPMENT

MCCM-AB 35
MCAG-AA
MCAP-AA 35
MCP-PP-AA 36

GSR-U 2003


DOWNHOLE EQUIPMENT

LEH-QT
LEH-QT 1519

SGT-E
ECH-KG 4095
SGC-JC 3541
SGD-TAB 1684

MSCT-AA
MCEC-AA 36
ECH-KS 36
MCMU-AA 21
BIT-AA
MCFU_H-AA 48

Gamma Ray



11.23

10.34

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.

Well: Trefoil-1

Field: Trefoil

State: Tasmania

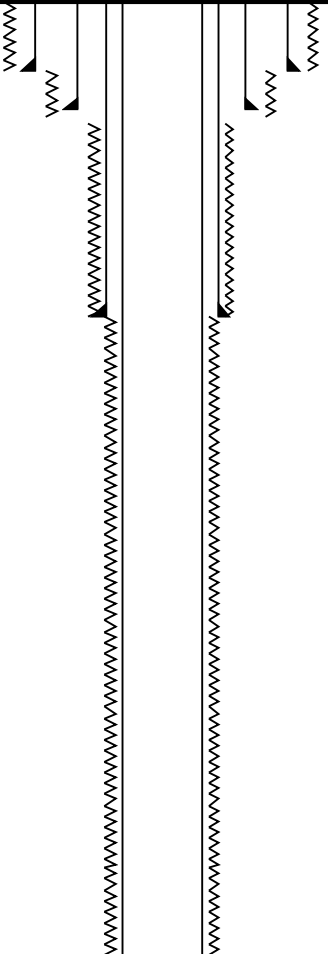
Country: Australia

Drawing Date: 12/2/2004

Rig Name: ENSCO 102

Reference Datum: Mean Sea Level

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	

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MAXIS Field Log

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)	Completed	Not recovered; marker disc jammed
29	3018.2 (M)	Completed	Not recovered; marker disc jammed
30	-3.9 (M)	Completed	Surface check
31	-2.7 (M)	Available	Surface check
32	-2.7 (M)	Completed	Surface check

Schlumberger

Core Log Record (All depths)

MAXIS Field Log

Company: Well:

Output DLIS Files

DEFAULT	MSCT_322LTP	FN:516	PRODUCER	01-Dec-2004 03:06	2968.3 M	31.6 M
BACKUP_MSCT	MSCT_322LTP	FN:517	PRODUCER	01-Dec-2004 03:05	2968.3 M	31.6 M

Elapsed Time (s)	Event Summary
12312.0	Coring Stopped
12210.0	Coring Started
12205.6	Marker 29
12205.6	Core 29 at 3018.2(M)
10623.2	Coring Stopped
10406.0	Coring Started
10403.2	Marker 28
10403.2	Core 28 at 3009.1(M)
10154.4	Coring Stopped
9912.0	Coring Started
9908.4	Marker 27

9908.4	Core 27 at 3006.7(M)
9711.2	Coring Stopped
9640.0	Coring Started
9635.6	Marker 26
9635.6	Core 26 at 3003.8(M)
9412.8	Coring Stopped
9255.2	Coring Started
9250.8	Marker 25
9250.8	Core 25 at 3002.1(M)
8932.0	Coring Stopped
8813.6	Coring Started
8808.8	Marker 24
8808.8	Core 24 at 3001.2(M)
8580.4	Coring Stopped
8478.0	Coring Started
8474.0	Marker 23
8474.0	Core 23 at 3000.2(M)
8260.0	Coring Stopped
8160.4	Coring Started
8156.4	Marker 22
8156.4	Core 22 at 2999.2(M)
7900.4	Coring Stopped
7791.2	Coring Started
7786.8	Marker 21
7786.8	Core 21 at 2997.8(M)
7537.2	Coring Stopped
7245.2	Coring Started
7241.2	Marker 20
7241.2	Core 20 at 2996.8(M)
6933.2	Coring Stopped
6646.4	Coring Started
6642.0	Marker 19
6642.0	Core 19 at 2995.8(M)
6409.6	Coring Stopped
6407.2	Coring Started
6402.4	Marker 18
6402.4	Core 18 at 2994.8(M)
6286.0	Coring Stopped
6120.8	Coring Started
6115.6	Marker 17
6115.6	Core 17 at 2994.8(M)
5847.6	Coring Stopped
5678.8	Coring Started
5673.6	Marker 16
5673.6	Core 16 at 2993.8(M)
5422.8	Coring Stopped
5139.2	Coring Started
5134.4	Marker 15
5134.4	Core 15 at 2992.8(M)
4907.6	Coring Stopped
4798.4	Coring Started
4794.0	Marker 14
4794.0	Core 14 at 2991.8(M)
4565.2	Coring Stopped
4473.2	Coring Started

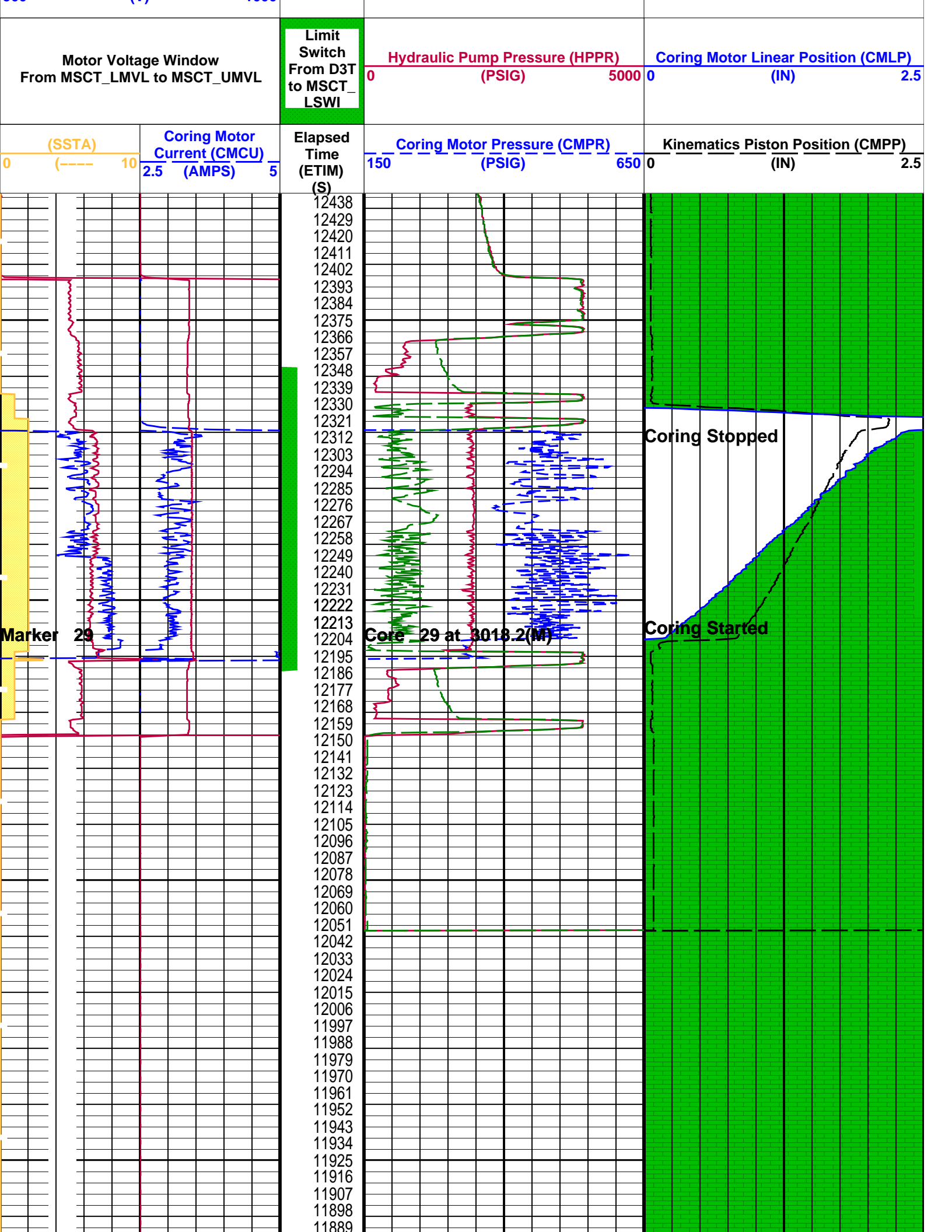
4468.8	Marker 13
4468.8	Core 13 at 2990.8(M)
4175.2	Coring Stopped
3986.8	Coring Started
3982.4	Marker 12
3982.4	Core 12 at 2988.8(M)
3737.6	Coring Stopped
3638.8	Coring Started
3634.4	Marker 11
3634.4	Core 11 at 2987.8(M)
3404.4	Coring Stopped
3315.6	Coring Started
3311.2	Marker 10
3311.2	Core 10 at 2986.0(M)
3017.6	Coring Stopped
2812.0	Coring Started
2806.8	Marker 9
2806.8	Core 9 at 2982.0(M)
2545.6	Coring Stopped
2326.4	Coring Started
2321.6	Marker 8
2321.6	Core 8 at 2981.0(M)
2061.6	Coring Stopped
1833.2	Coring Started
1828.0	Marker 7
1828.0	Core 7 at 2980.0(M)
1591.2	Coring Stopped
1360.8	Coring Started
1356.4	Marker 6
1356.4	Core 6 at 2977.7(M)
1155.2	Coring Stopped
906.4	Coring Started
901.6	Marker 5
901.6	Core 5 at 2971.0(M)
738.4	Coring Stopped
632.8	Coring Started
628.0	Marker 4
628.0	Core 4 at 2970.0(M)
418.4	Coring Stopped
74.8	Coring Started
70.0	Marker 3
70.0	Core 3 at 2968.3(M)

PIP SUMMARY

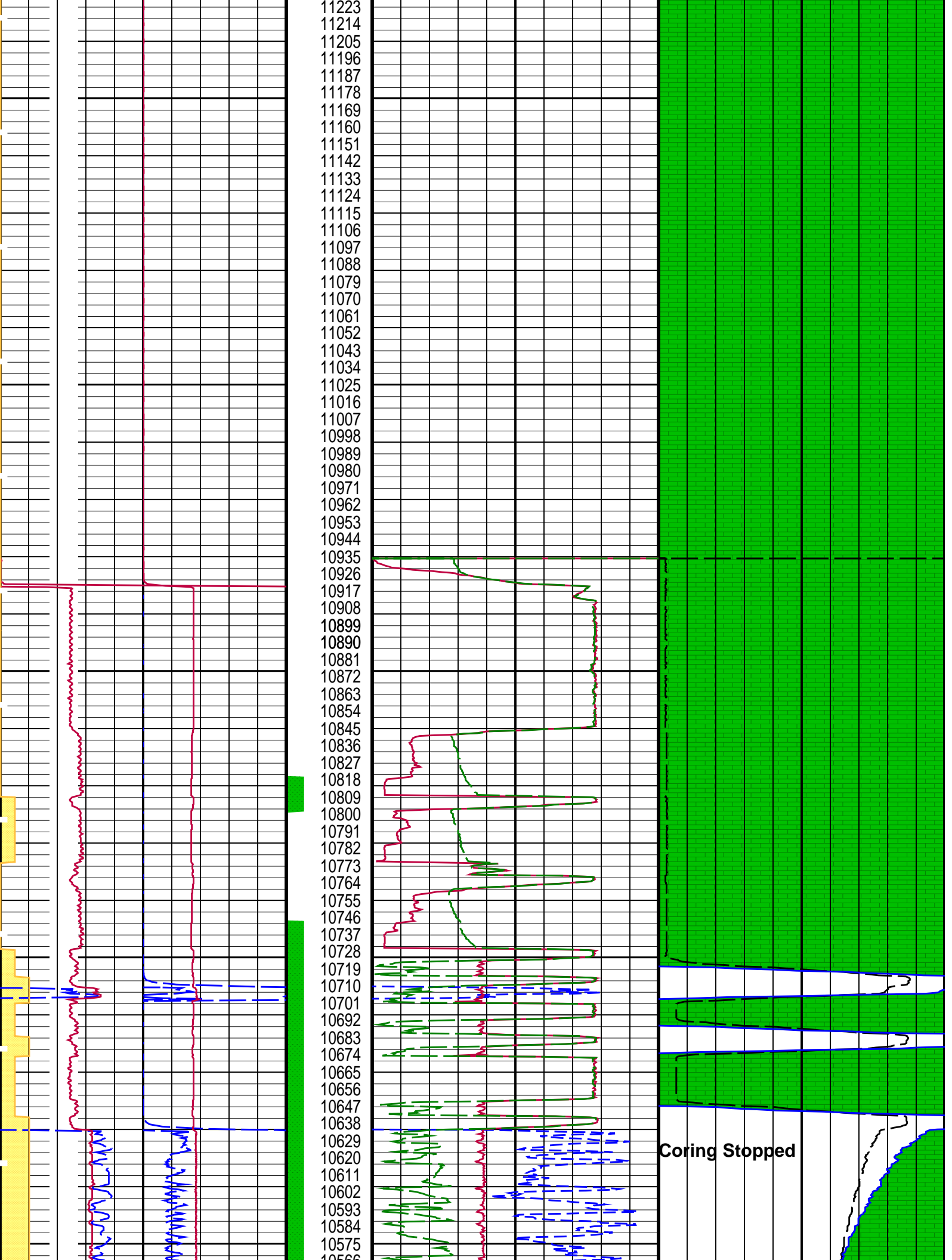
Time Mark Every 60 S

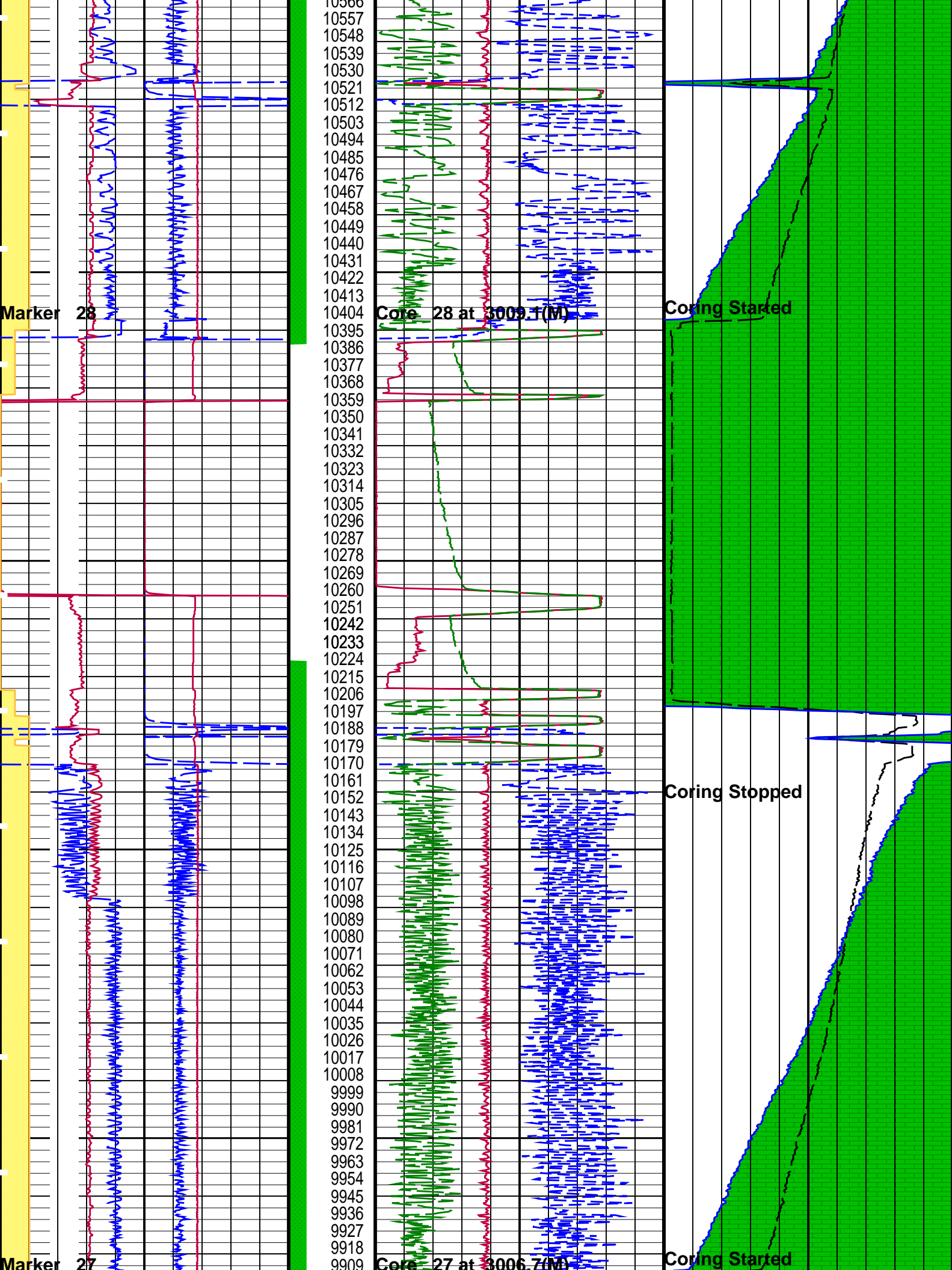
	Hydraulic Motor Current (HMCU)
0	(AMPS) 2
Hydraulic Motor Downhole Voltage (HMDV)	
500	(V) 1000
Coring Motor Downhole Voltage (CMDV)	
500	(V) 1000

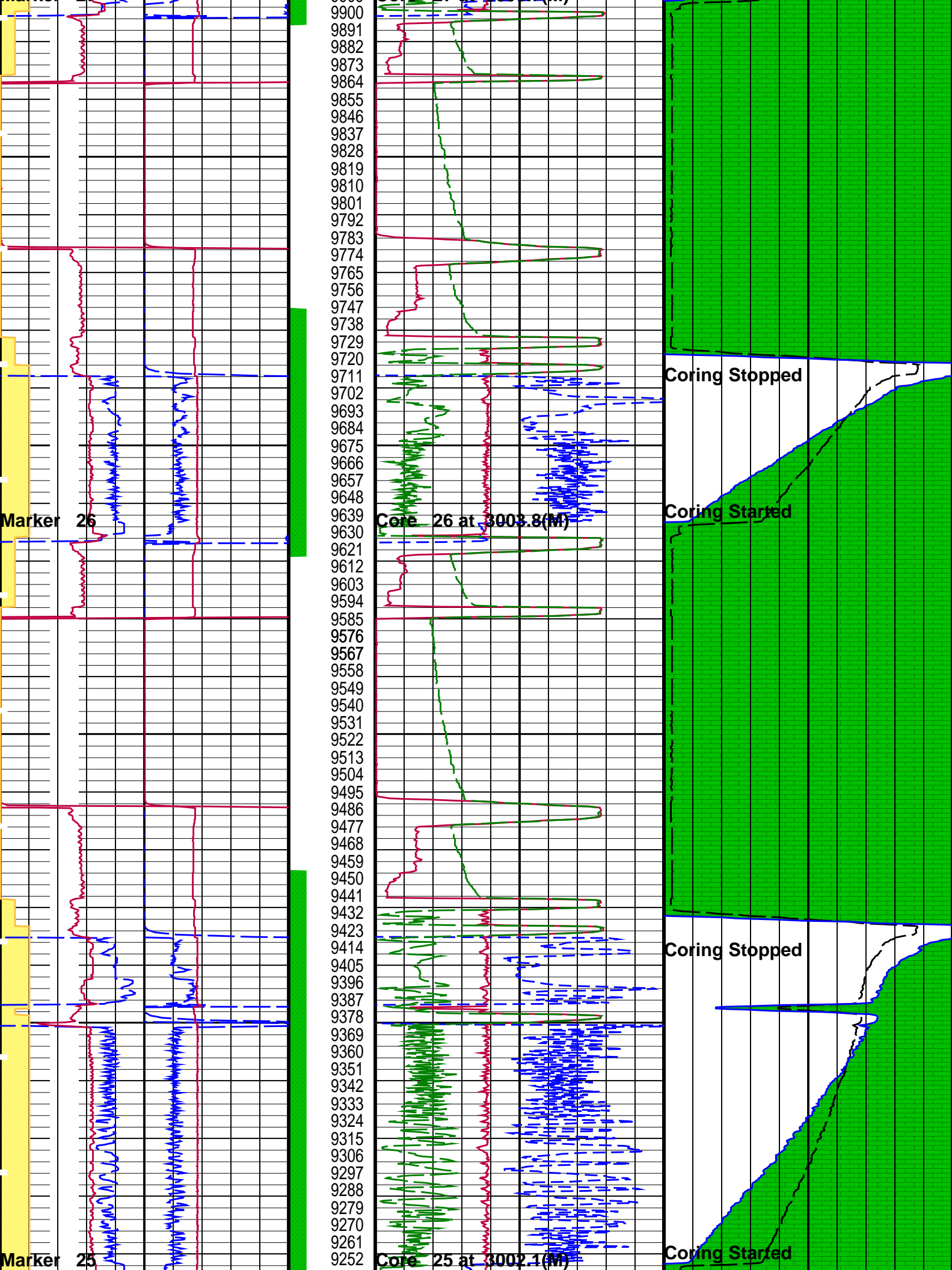
	Kinematics Pressure (RPPV)
0	(PSIG) 5000

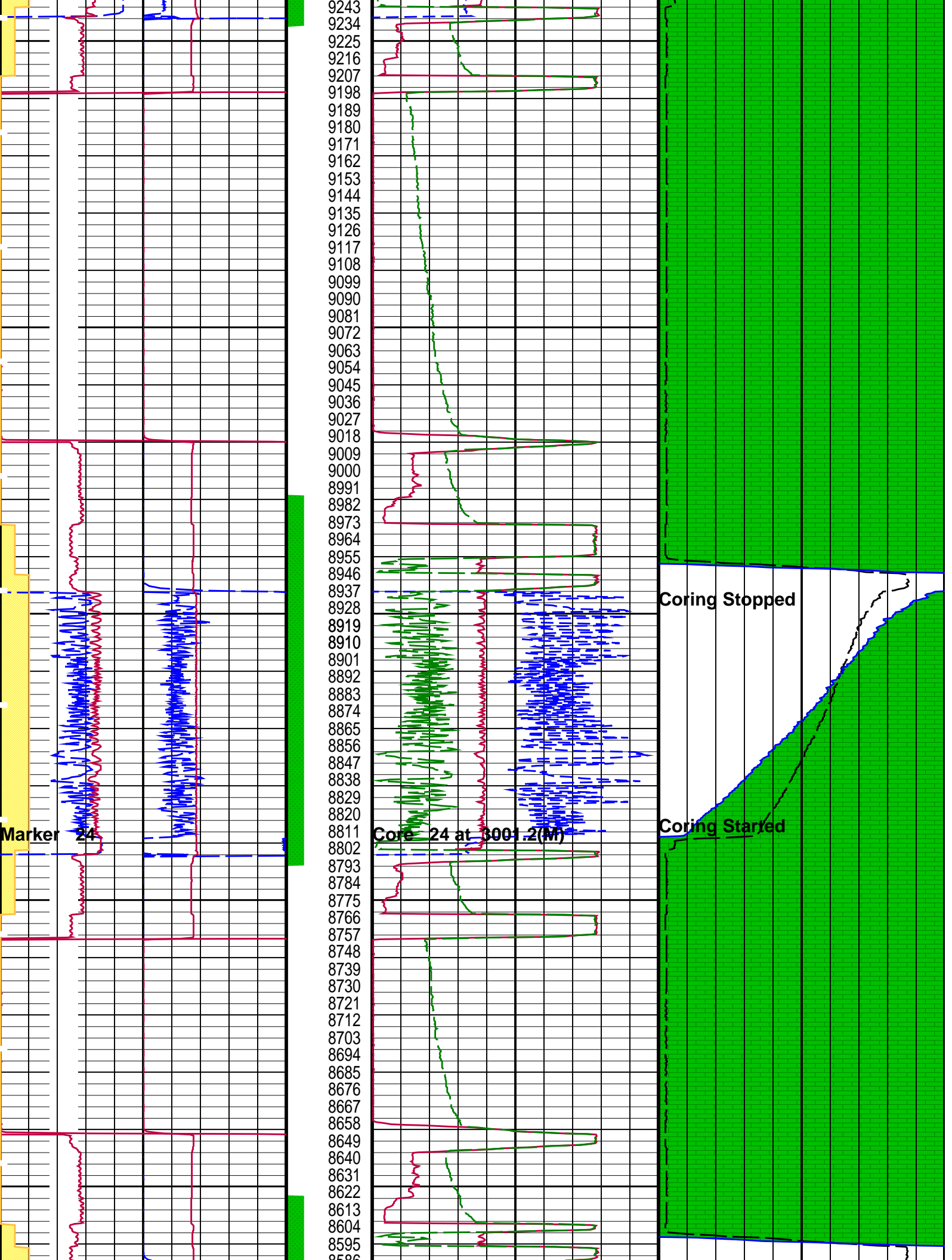


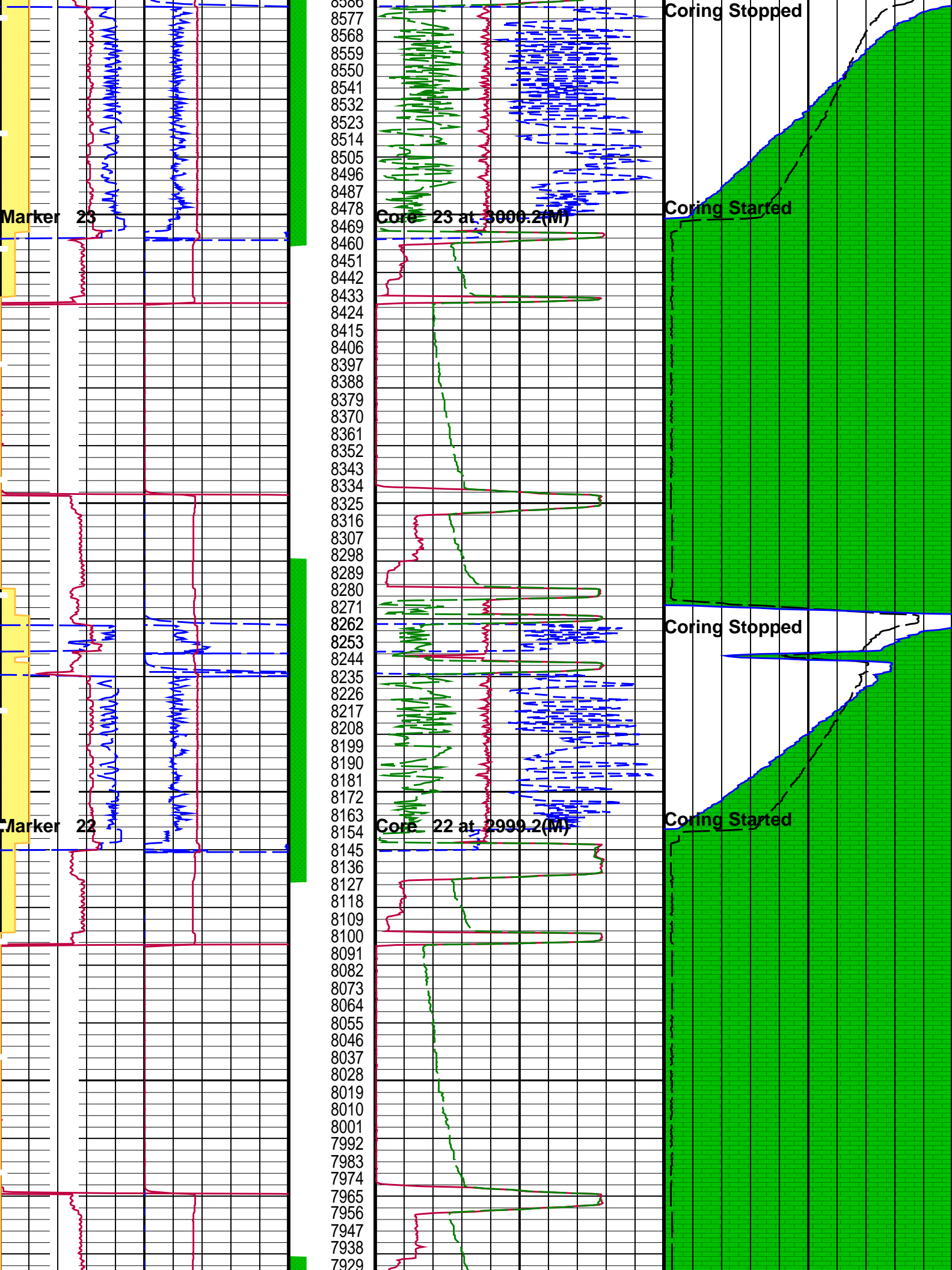
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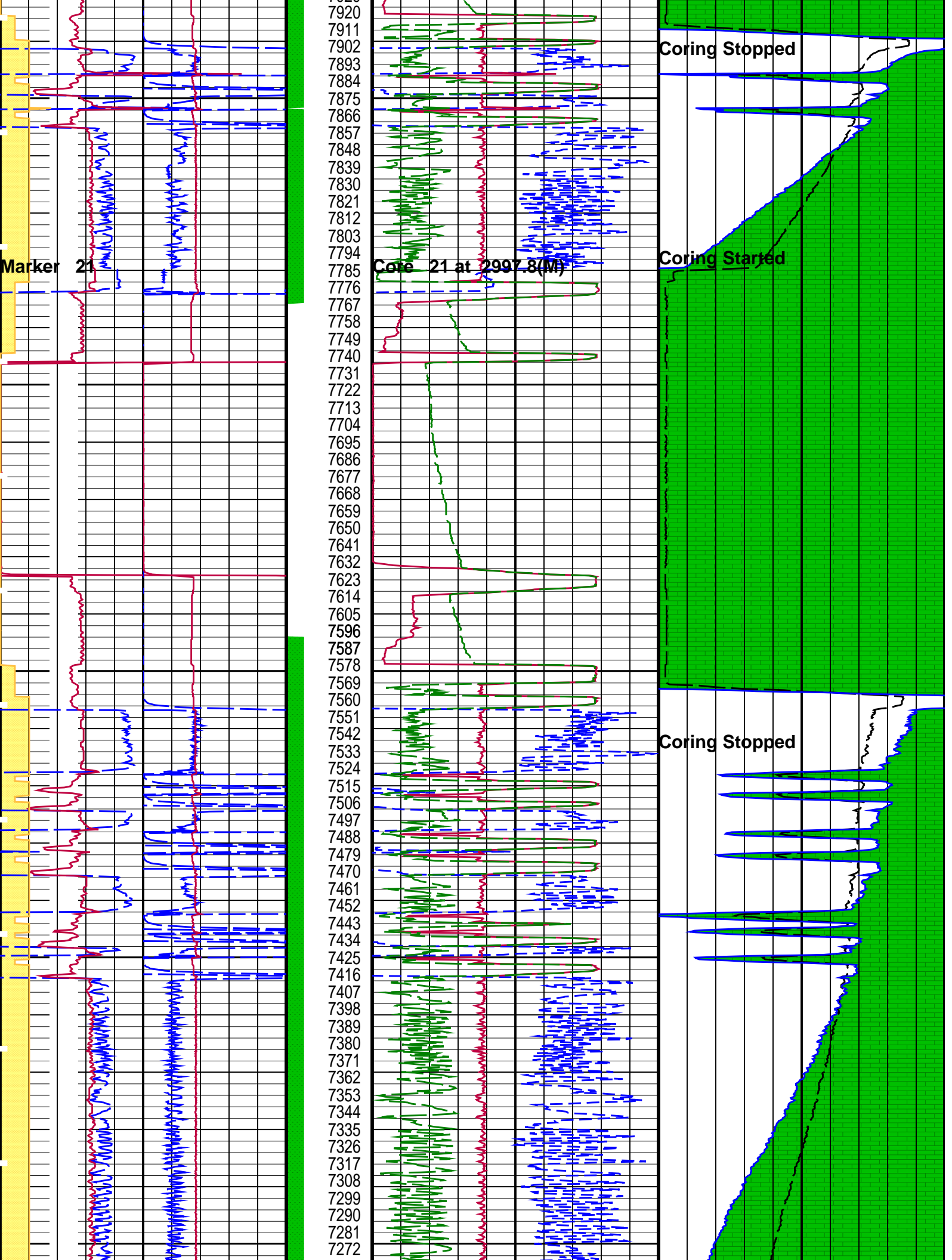


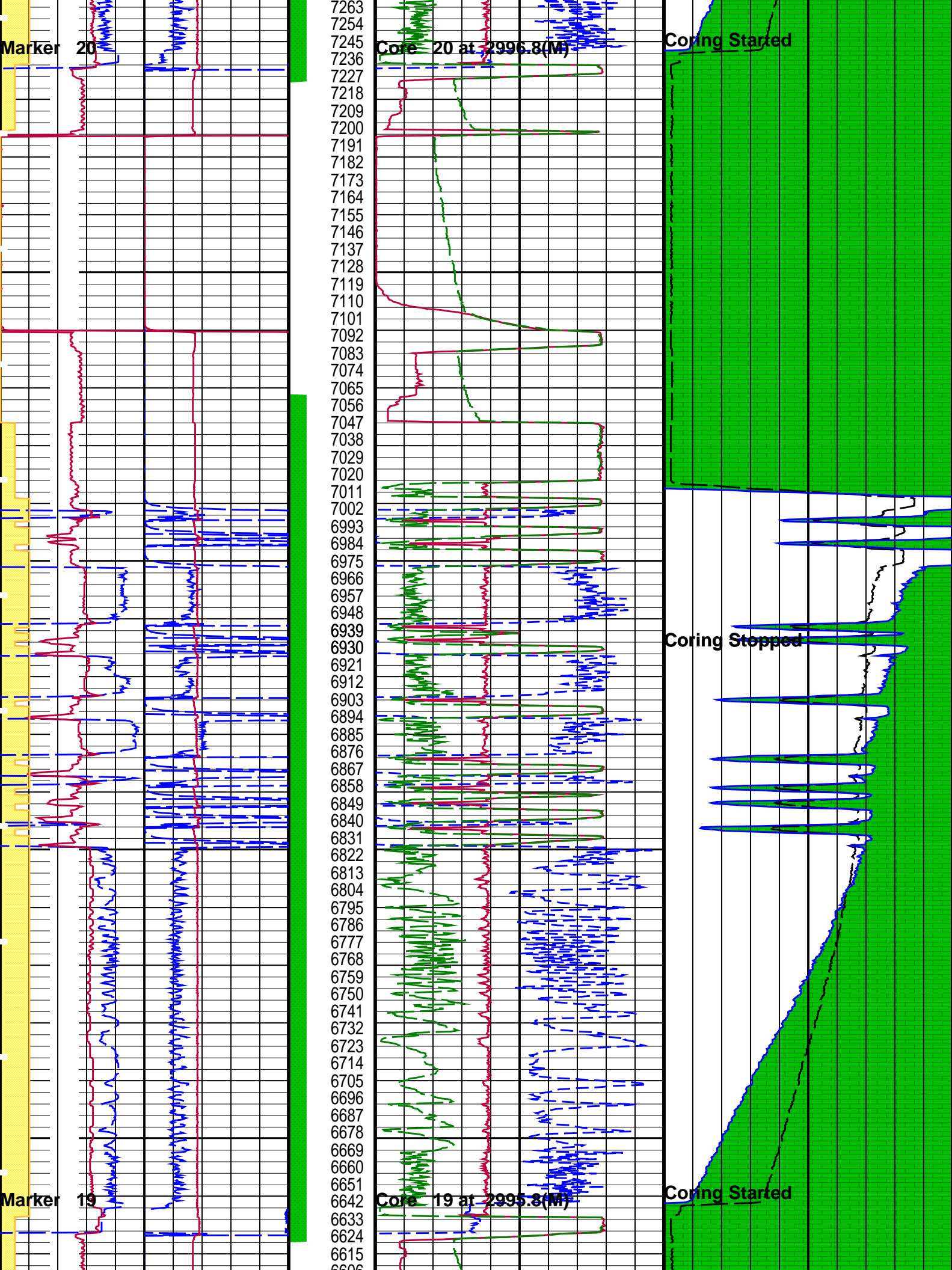


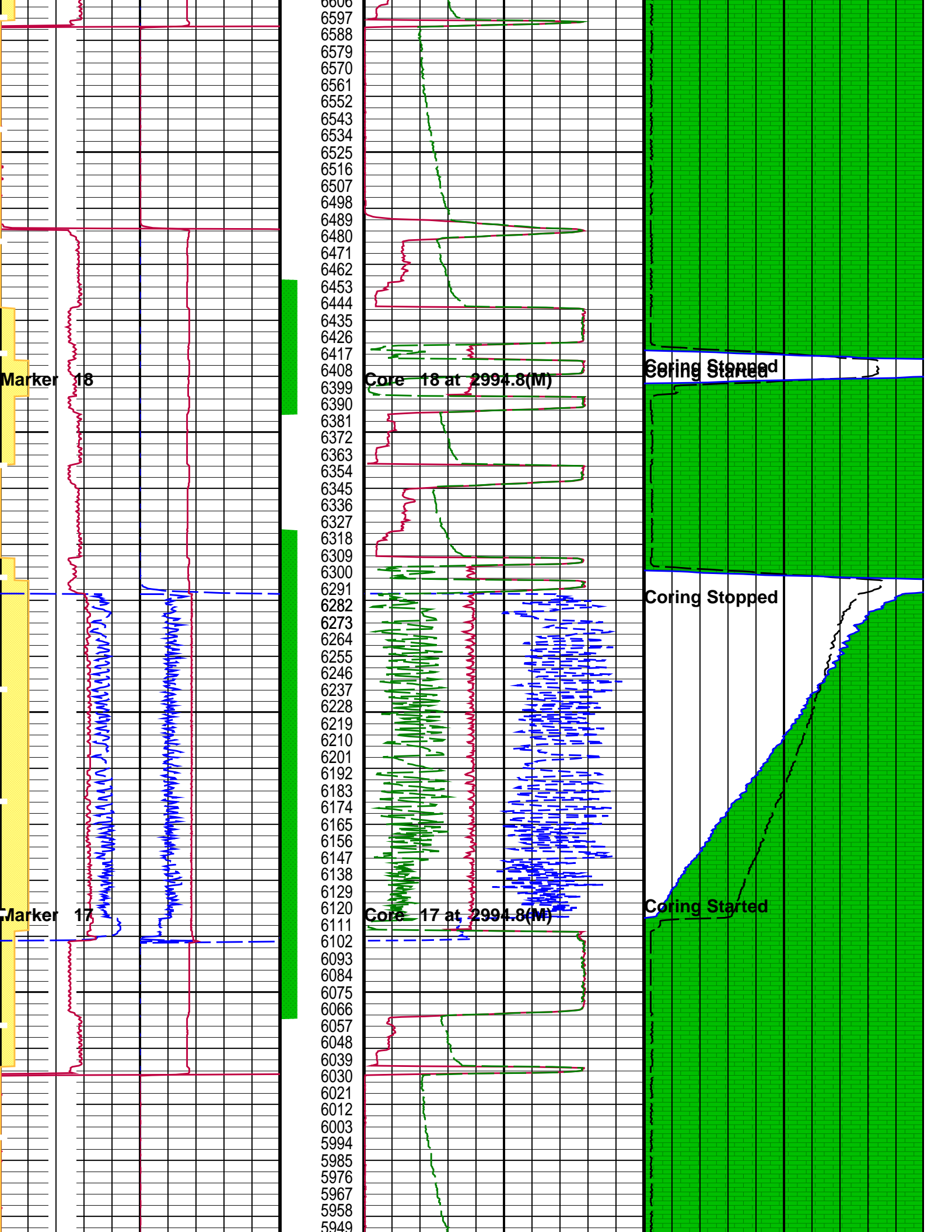


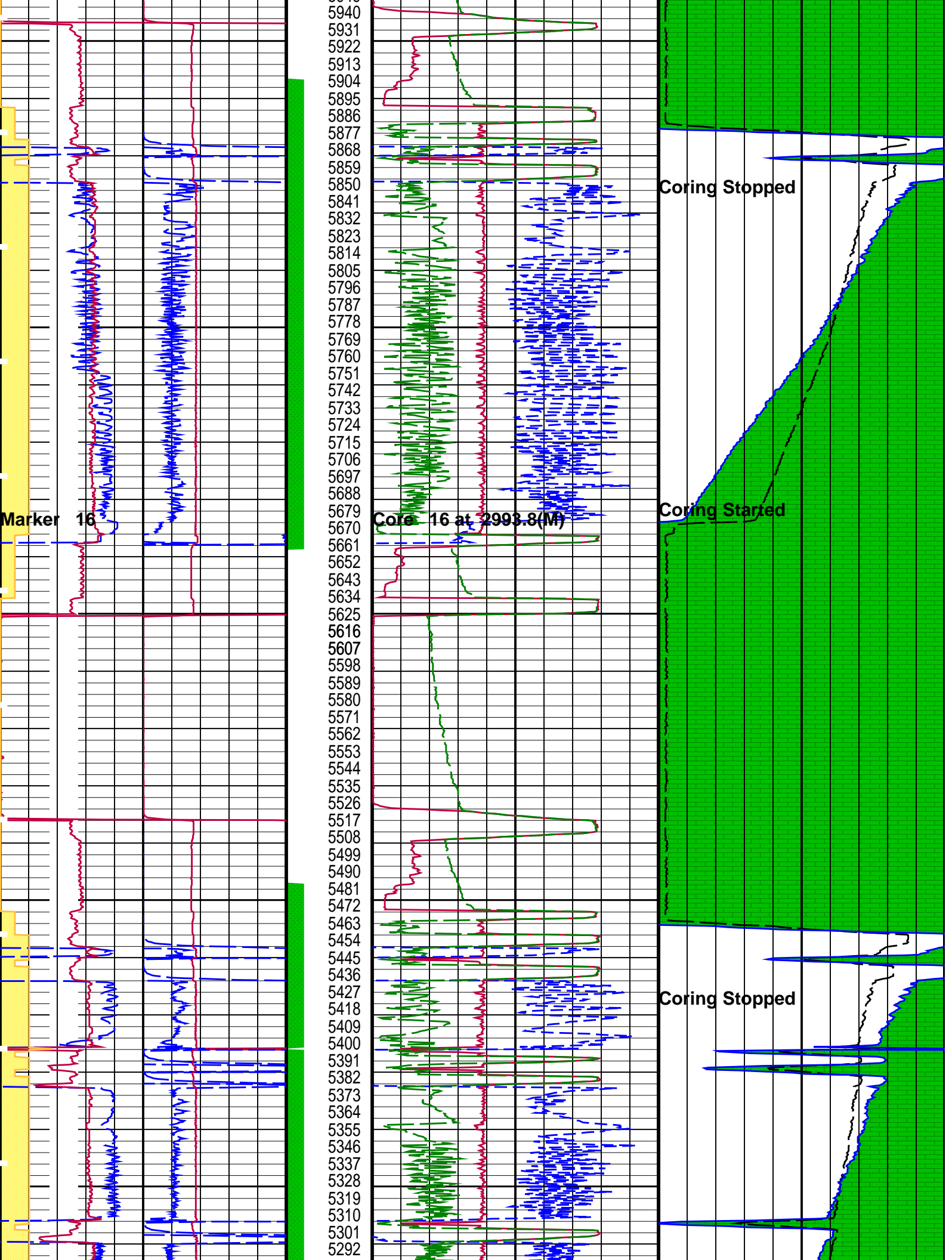


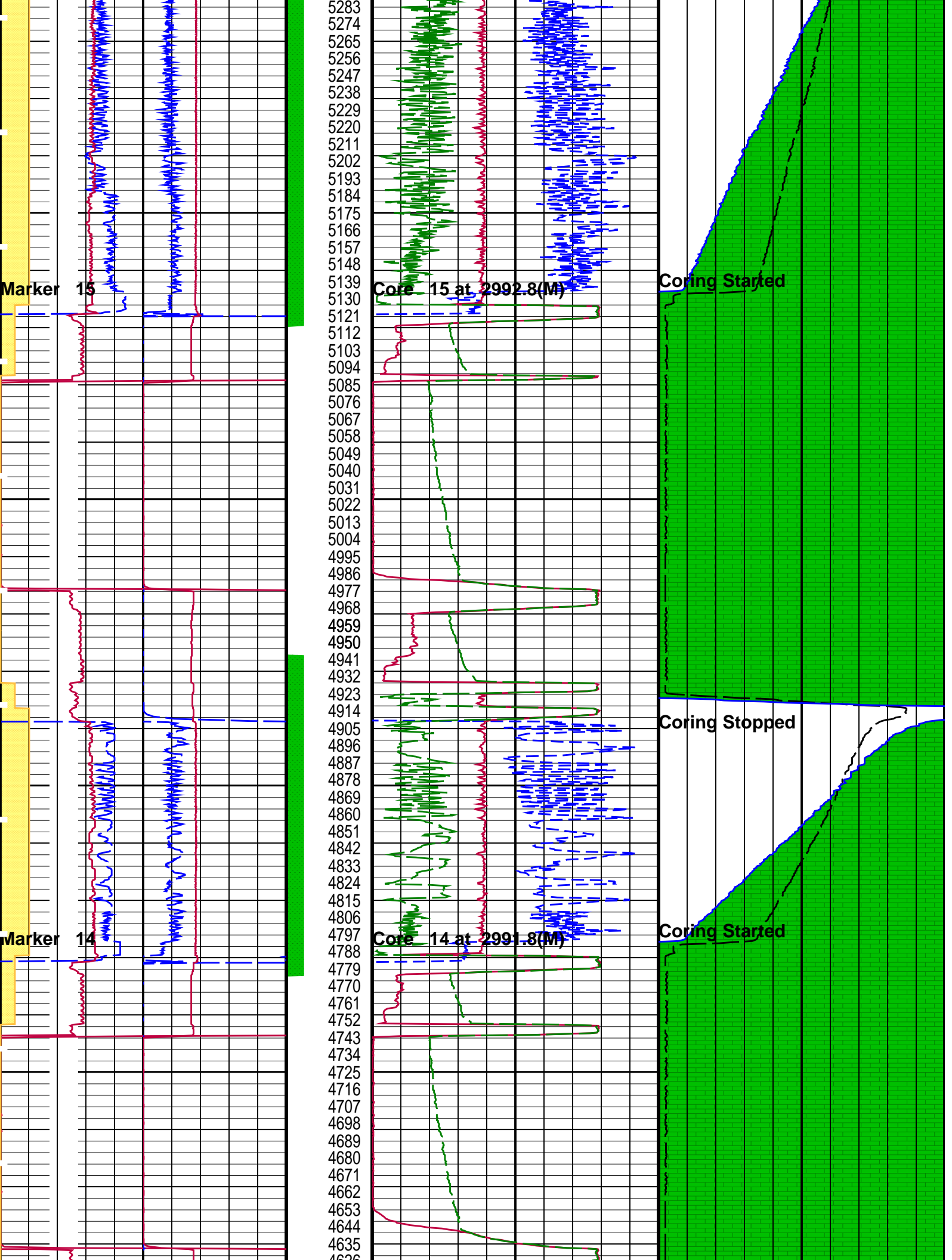


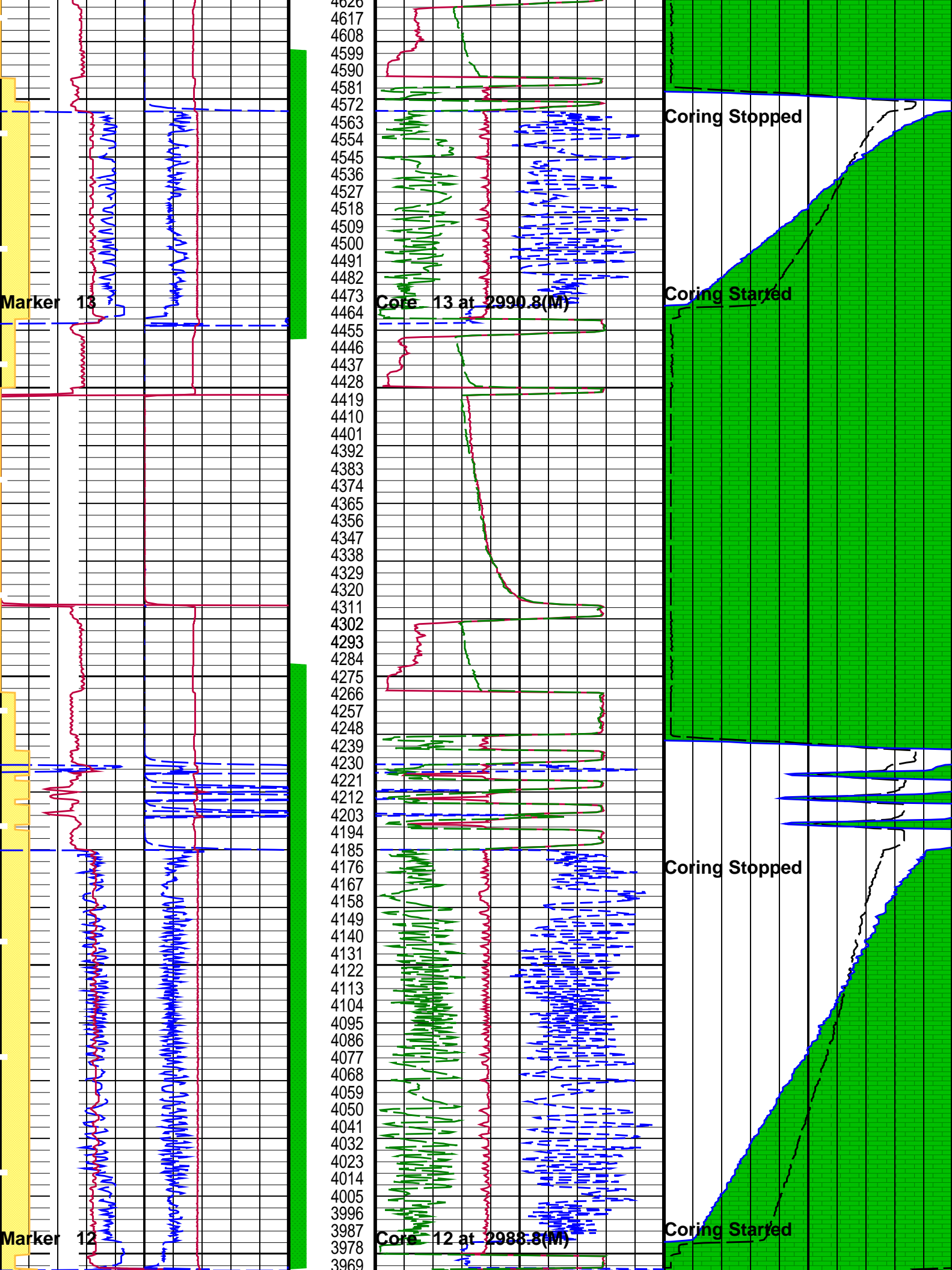


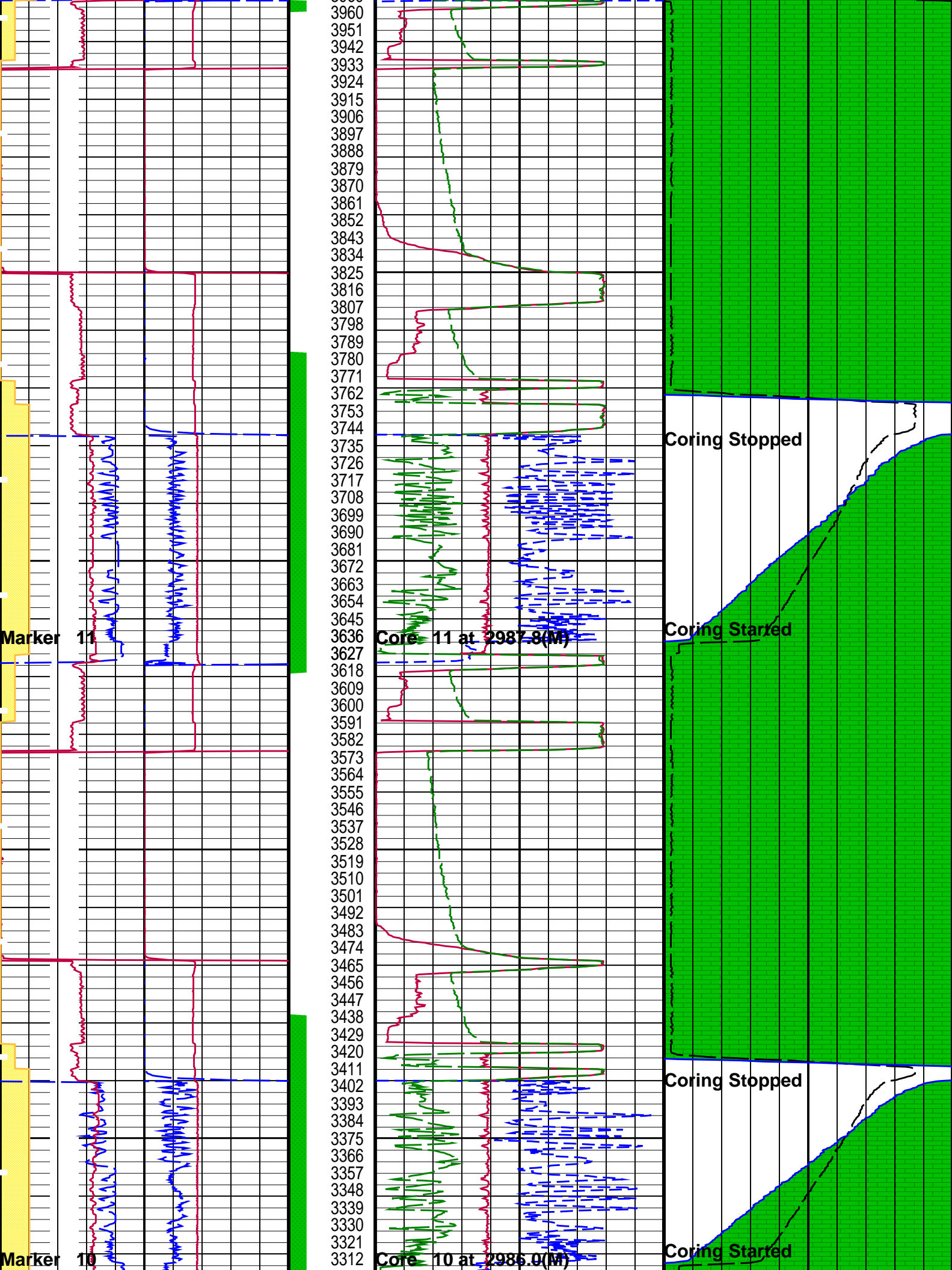


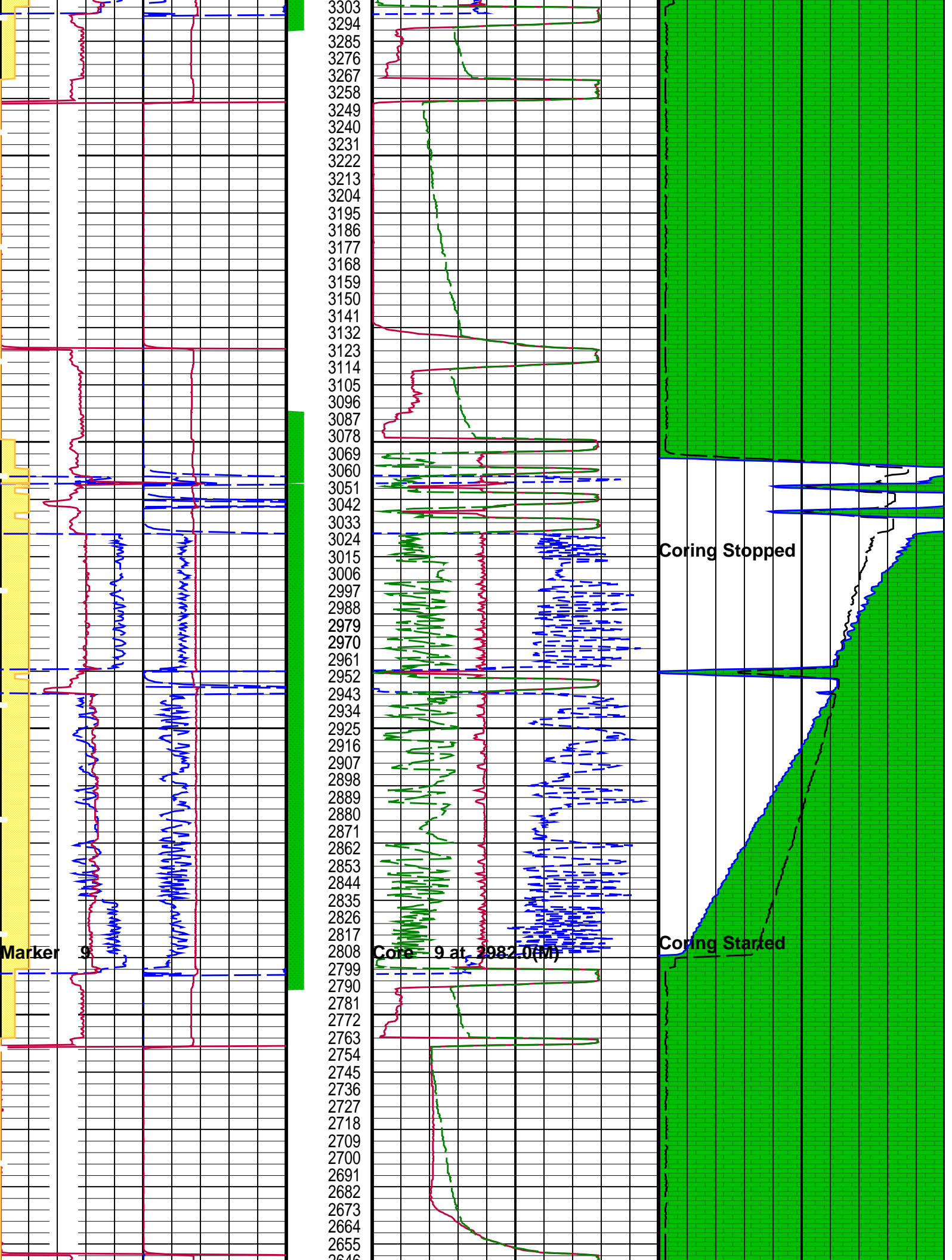


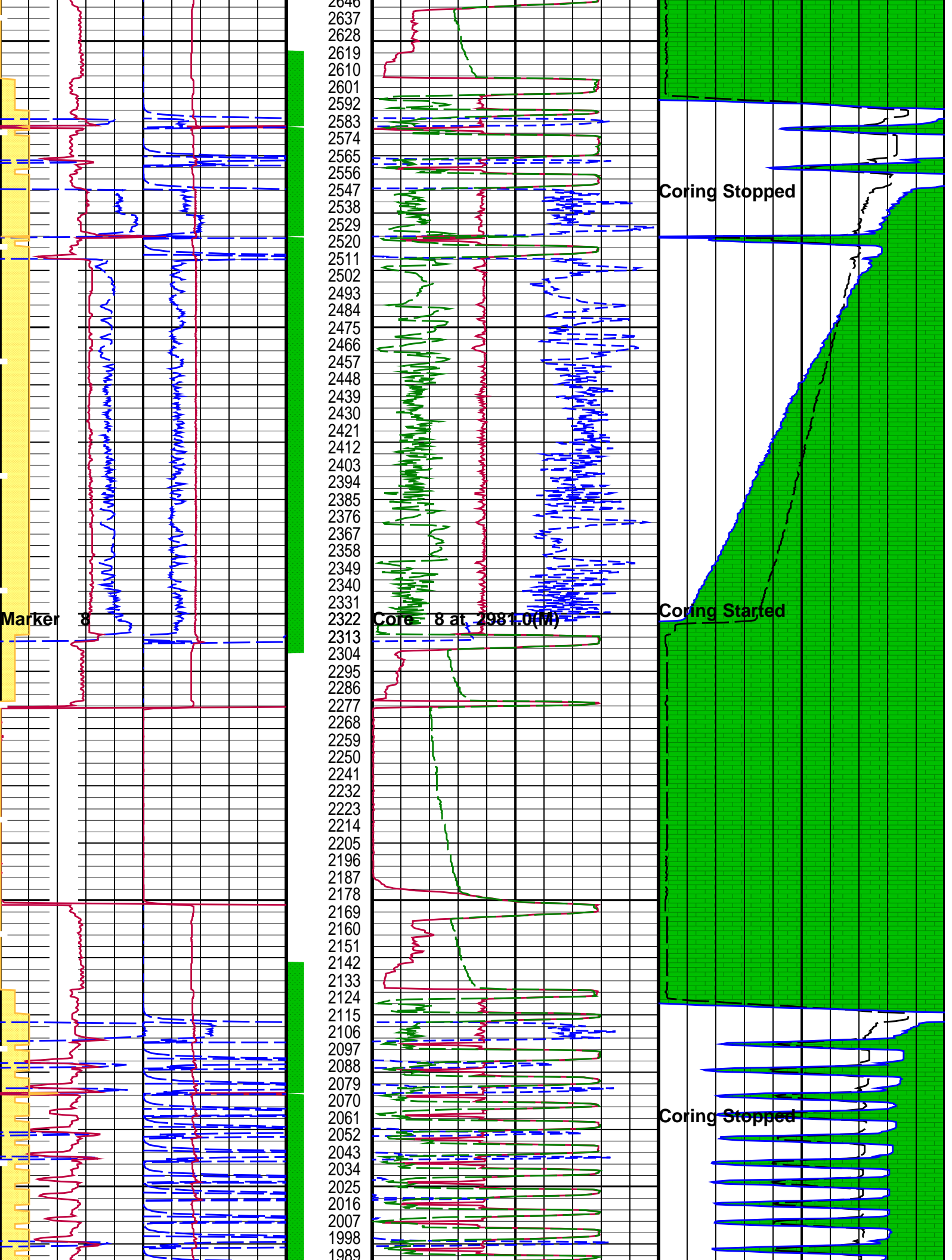


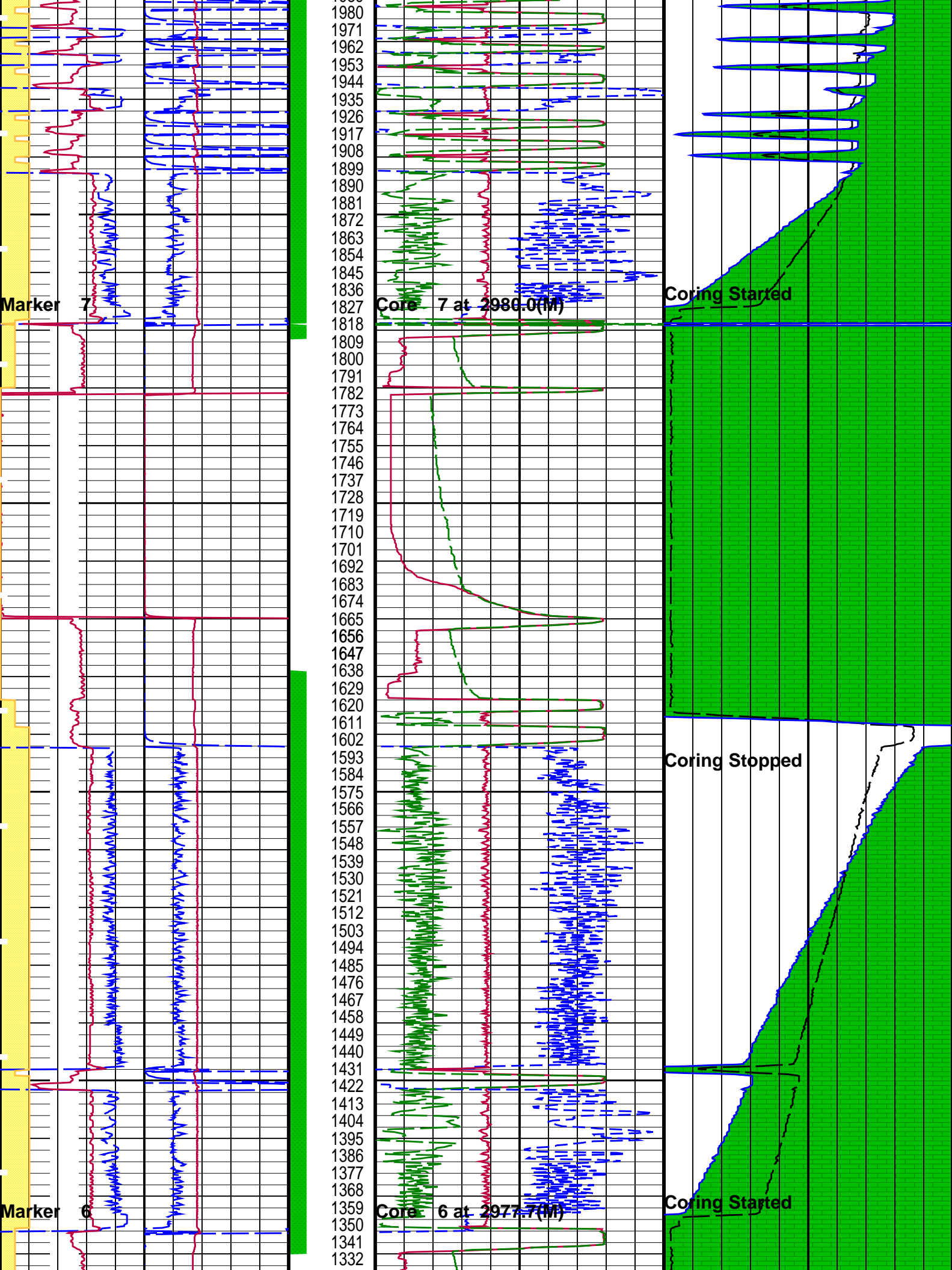


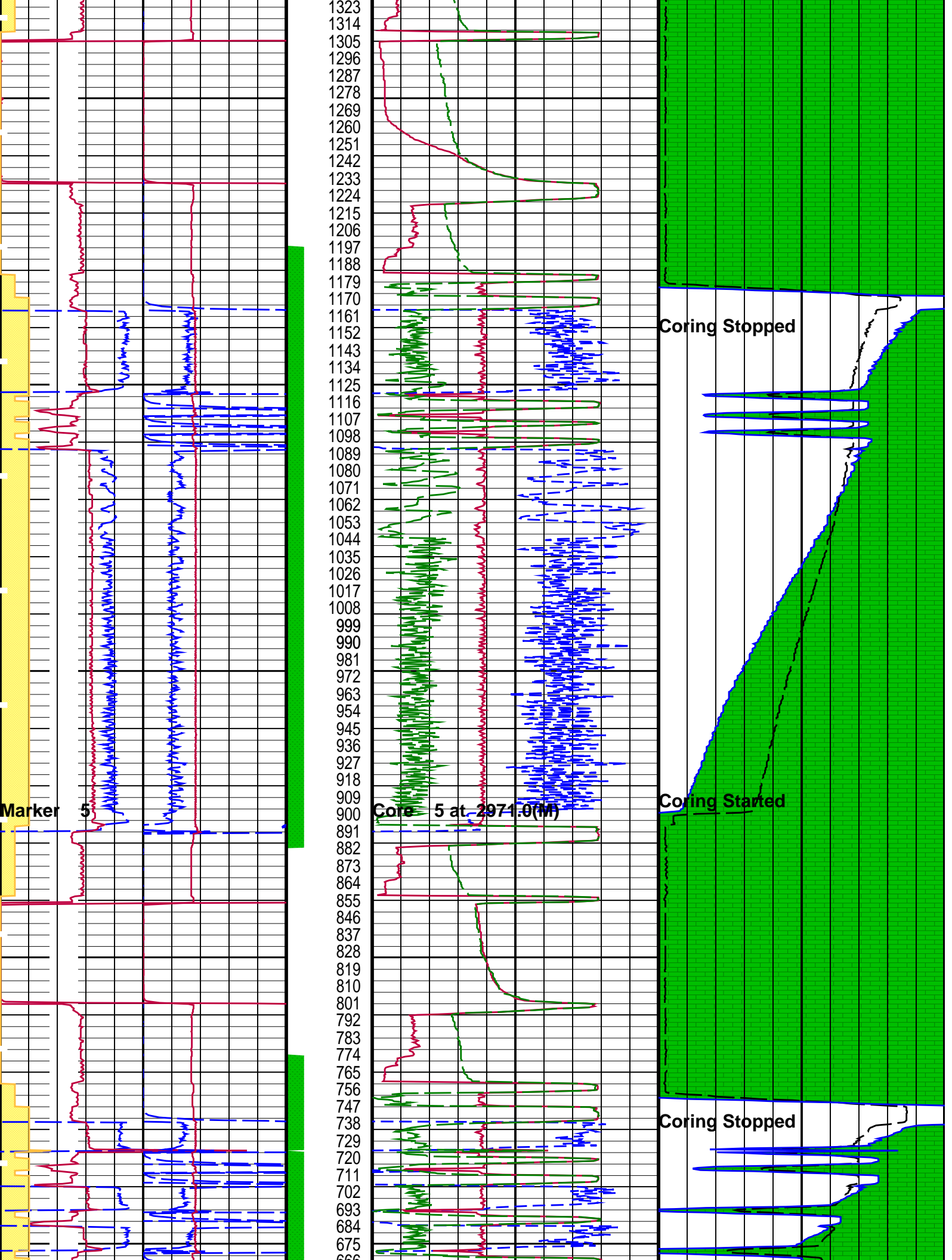


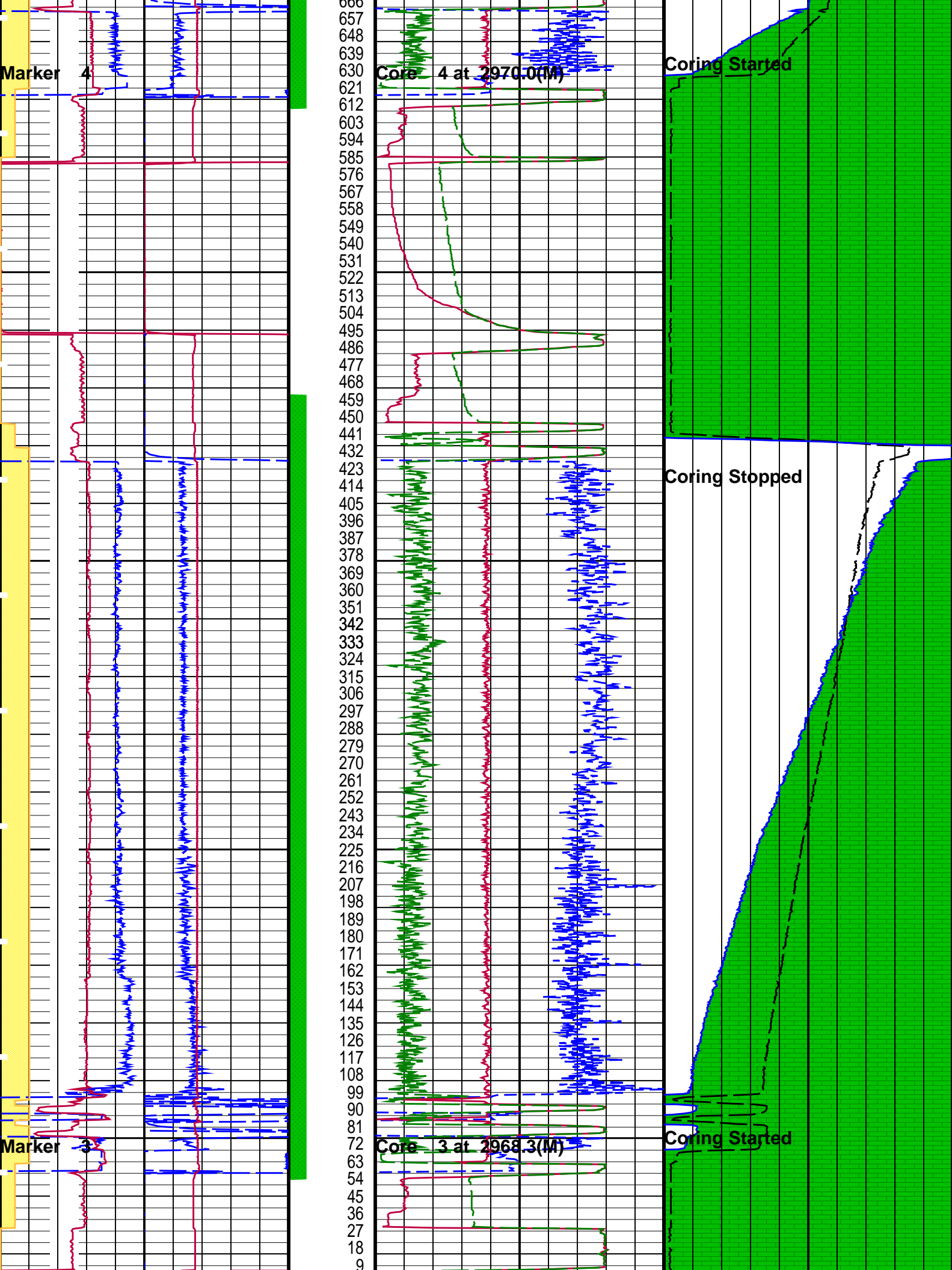












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PIP SUMMARY

Time Mark Every 60 S

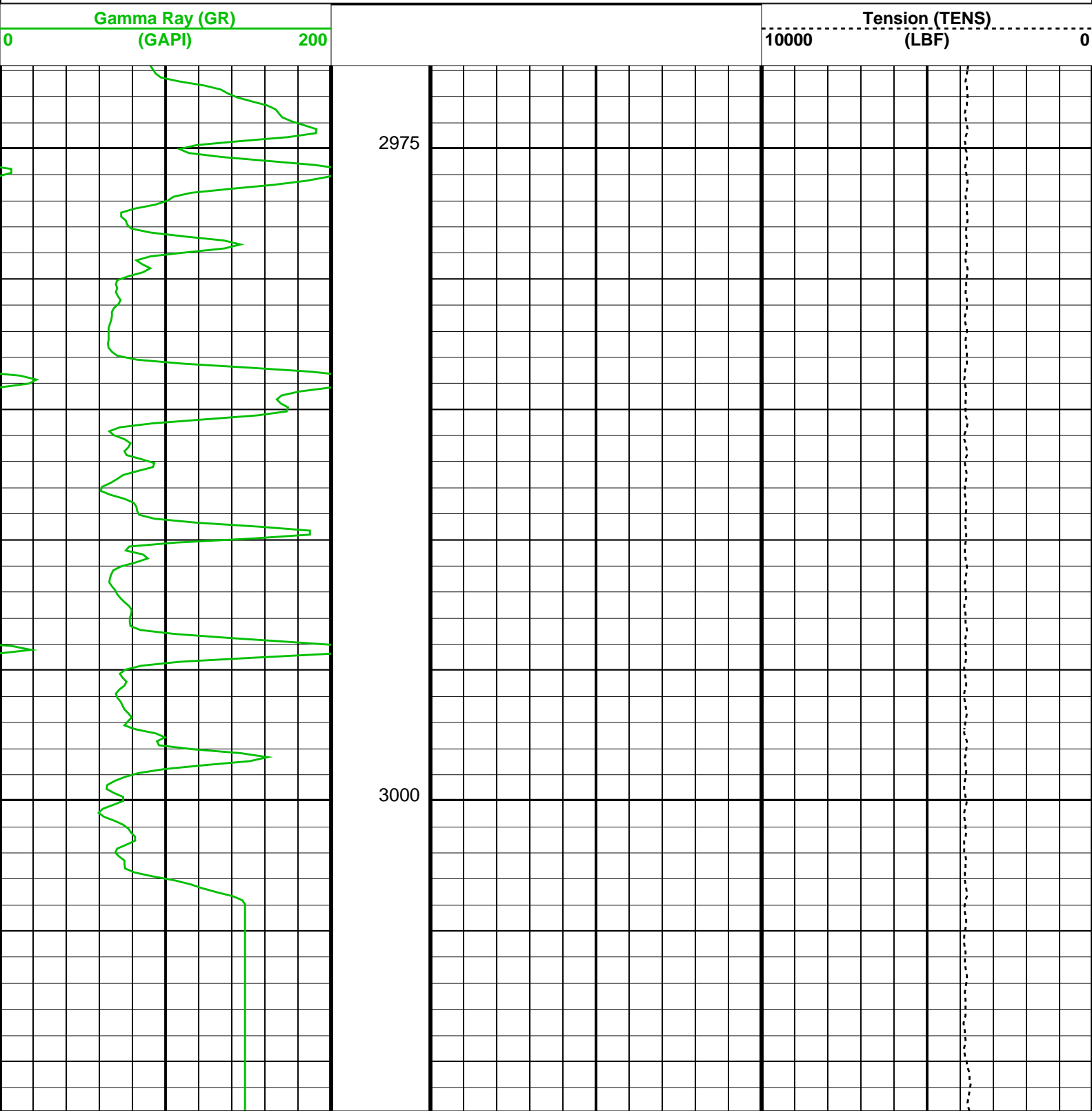
Parameters					
DLIS Name		Description		Value	
MSCT-AA: Mechanical Sidewall Coring Tool		SOFF		0 IN	
Format: MSCT_PROPRIETARY_ALL_Station		Vertical Scale: 1" per 60S		Graphics File Created: 01-Dec-2004 03:06	
OP System Version: 12C0-301					
MCM					
MSCT-AA		12C0-301		SGT-E 12C0-301	
Output DLIS Files					
DEFAULT		MSCT_322LTP		FN:516 PRODUCER 01-Dec-2004 03:06	
BACKUP_MSCT		MSCT_322LTP		FN:517 PRODUCER 01-Dec-2004 03:05	

Schlumberger

Correlation Pass

MAXIS Field Log

Company:							Well:
Output DLIS Files							
DEFAULT	MSCT_321LUP	FN:514	PRODUCER	01-Dec-2004 03:00	3011.9 M	2971.8 M	
BACKUP_MSCT	MSCT_321LUP	FN:515	PRODUCER	01-Dec-2004 02:59	3011.9 M	2971.8 M	
OP System Version: 12C0-301							
MCM							
MSCT-AA	12C0-301	SGT-E		12C0-301			



Format: CORRELATION Vertical Scale: 1:200 Graphics File Created: 01-Dec-2004 03:00

OP System Version: 12C0-301

MCM

MSCT-AA 12C0-301 SGT-E 12C0-301

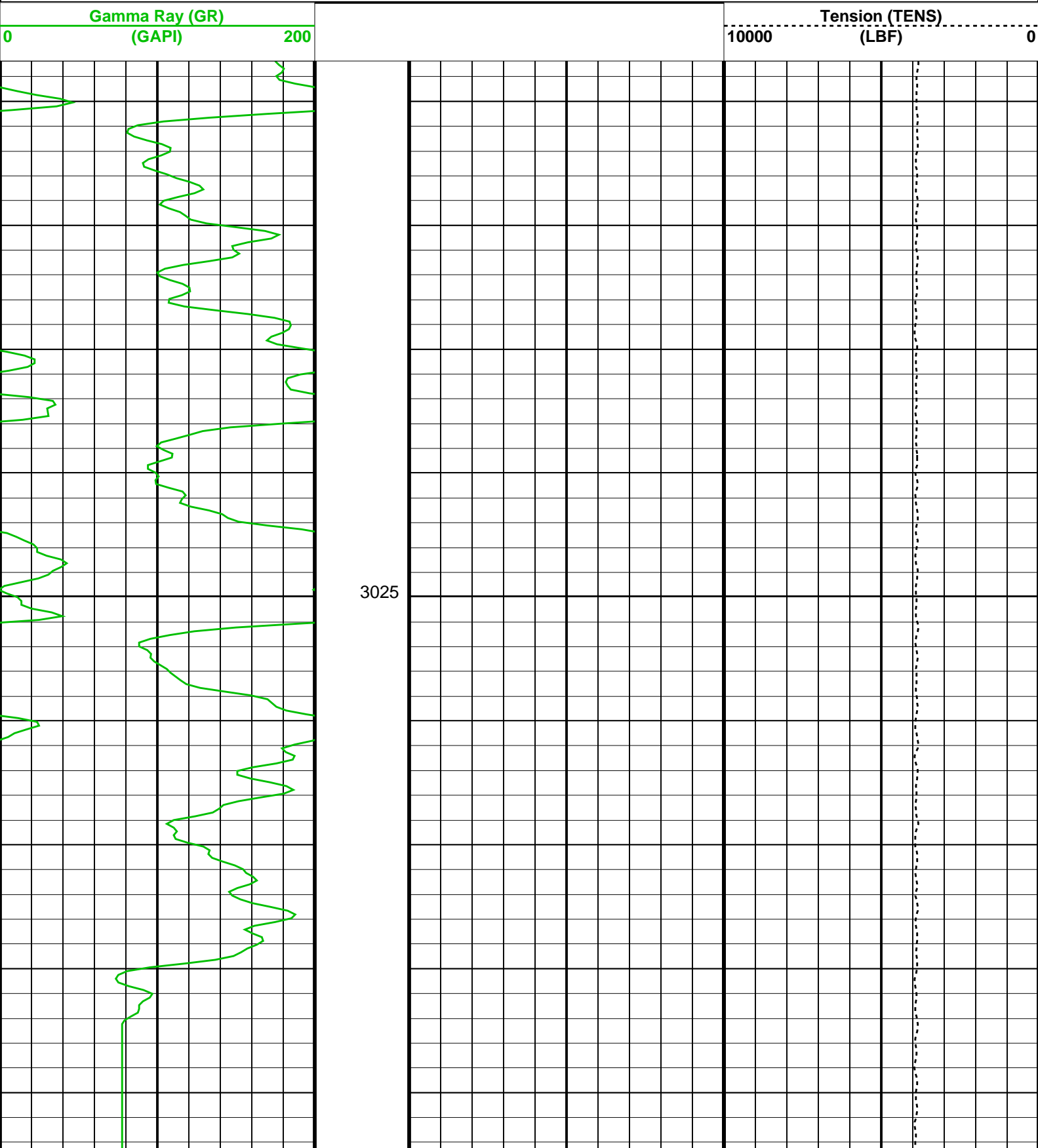
Output DLIS Files

DEFAULT	MSCT_321LUP	FN:514	PRODUCER	01-Dec-2004 03:00
BACKUP_MSCT	MSCT_321LUP	FN:515	PRODUCER	01-Dec-2004 02:59

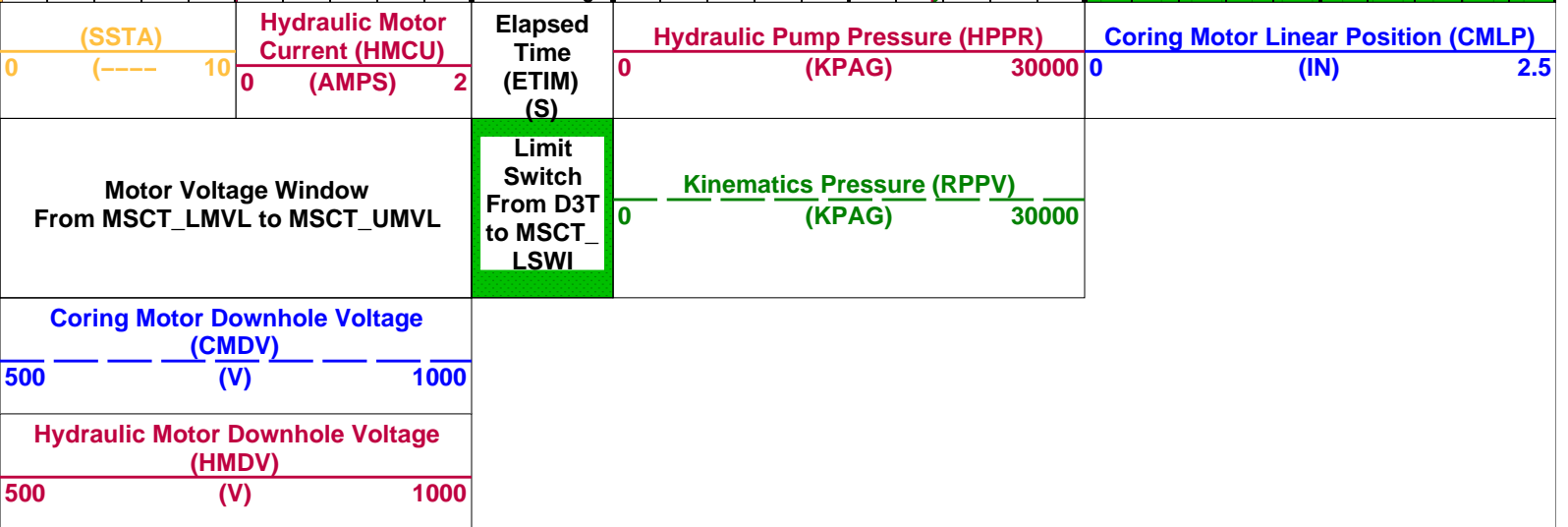
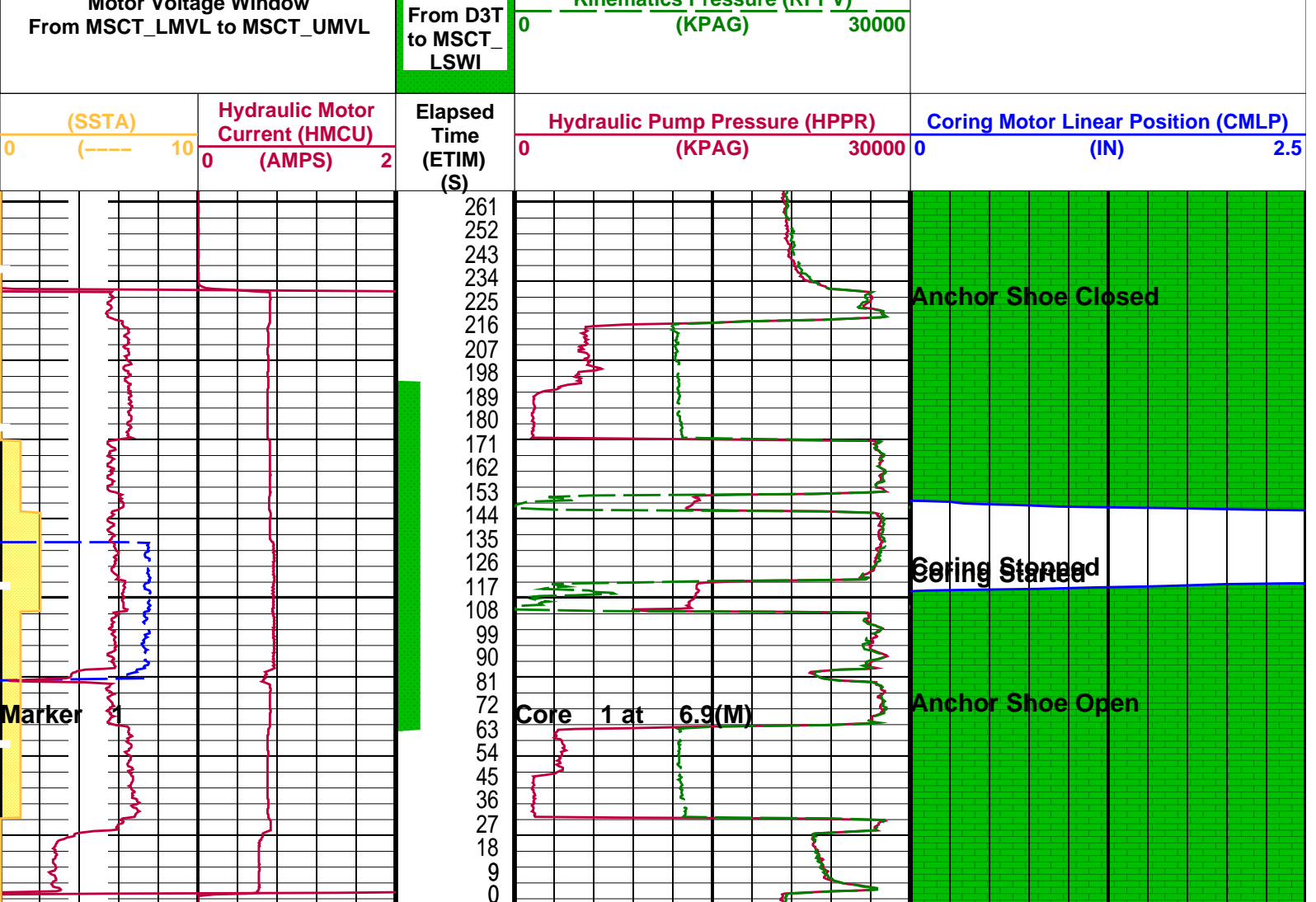
Well:

DEFAULT	MSCT_324LUP	FN:520	PRODUCER	01-Dec-2004 06:21	3050.0 M	3003.3 M
BACKUP MSCT	MSCT_324LUP	FN:521	PRODUCER	01-Dec-2004 06:21	3050.0 M	3003.3 M

MSCT-AA	12C0-301	SGT-E	12C0-301
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Motor Voltage Window	Limit Switch	Kinematics Pressure (PPDV)
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PIP SUMMARY

Time Mark Every 60 S

Parameters

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:
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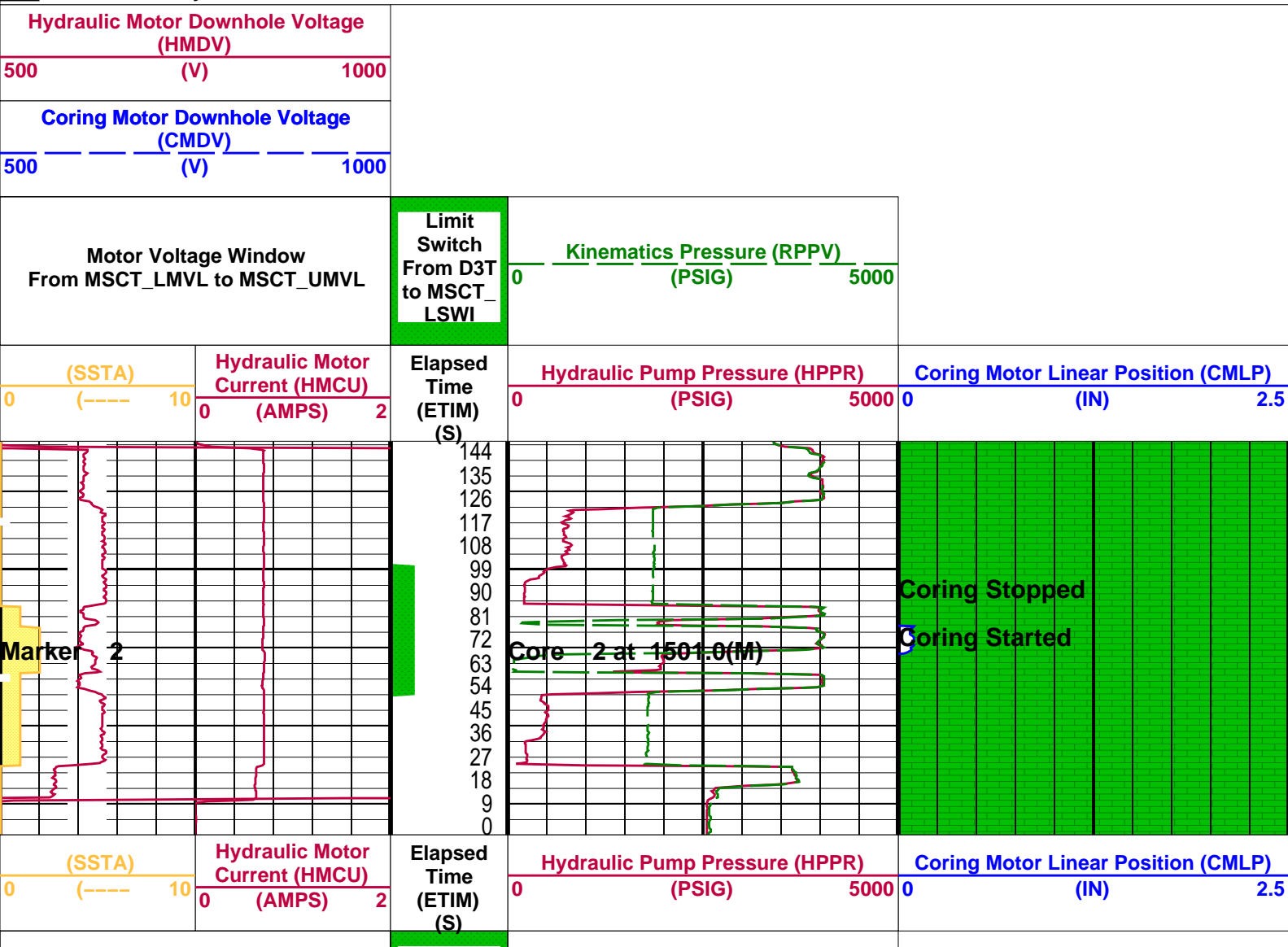
Output DLIS Files

DEFAULT	MSCT_318LTP	FN:508	PRODUCER	01-Dec-2004 02:11	1501.0 M	0.4 M
BACKUP_MSCT	MSCT_318LTP	FN:509	PRODUCER	01-Dec-2004 02:11	1501.0 M	0.4 M

Elapsed Time (s)	Event Summary
90.4	Coring Stopped
72.0	Coring Started
67.2	Marker 2
67.2	Core 2 at 1501.0(M)

PIP SUMMARY

Time Mark Every 60 S



Motor Voltage Window From MSCT_LMVL to MSCT_UMVL	Limit Switch From D3T to MSCT_ LSWI	Kinematics Pressure (RPPV) (PSIG)
	0	5000
Coring Motor Downhole Voltage (CMDV) (V)		
500		
1000		
Hydraulic Motor Downhole Voltage (HMDV) (V)		
500		
1000		

PIP SUMMARY		
Time Mark Every 60 S		

Parameters		
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: 01-Dec-2004 02:11
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OP System Version: 12C0-301 MCM			
MSCT-AA	12C0-301	SGT-E	12C0-301

Output DLIS Files			
DEFAULT	MSCT_318LTP	FN:508	PRODUCER 01-Dec-2004 02:11
BACKUP_MSCT	MSCT_318LTP	FN:509	PRODUCER 01-Dec-2004 02:11

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

Mechanical Sidewall Coring Tool / Equipment Identification	
Primary Equipment:	
Mechanical Sidewall Corer Twenty Five Co	MCFU – AA
Mechanical Sidewall Corer Mechanical Uni	MCMU – AA
Mechanical Sidewall Corer Bit	BIT – AA
Mechanical Sidewall Corer Electronics Ca	MCEC – AA
Auxiliary Equipment:	
Electronics Cartridge Housing	ECH – KS




Scintillation Gamma-Ray – E / Equipment Identification	
Primary Equipment:	
Scintillation Gamma Cartridge	SGC – JC
Scintillation Gamma Detector	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