





ECH-KG  
SGC-JC  
SGD-TAA

Gamma Ray

— 27.2

MSCT-AA  
MCEC-AA  
ECH-KS  
MCMU-AA 46  
BIT-AA  
MCFU\_H-AA

28.9

Tension MSCT

— TOOL ZERO

TOOL BOTTOM

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



---

## MSCT CORE REPORT

---

Core	Depth	Recovery	Remark	Remark
1	3914.0 (FT)	Recovered	2 PIECE CORE	
2	3810.4 (FT)	Recovered		
3	3590.0 (FT)	Recovered	3 PIECE CORE	3/4 CORE
4	3539.9 (FT)	Recovered	3/4 CORE	
5	3490.0 (FT)	Recovered		
6	3450.0 (FT)	Recovered		
7	3395.9 (FT)	Recovered	2 PIECE CORE	
8	3613.9 (FT)	Recovered		
9	3257.9 (FT)	Recovered		
10	3245.0 (FT)	Recovered	3/4 CORE	
11	3165.9 (FT)	Recovered		
12	3110.3 (FT)	Recovered		
13	3002.0 (FT)	Recovered		
14	2955.8 (FT)	Recovered	3/4 CORE	
15	2940.0 (FT)	Recovered		
16	2920.0 (FT)	Recovered	SPLIT	
17	2810.0 (FT)	Recovered		
18	2750.0 (FT)	Recovered	2 PIECE CORE	
19	2688.0 (FT)	Recovered		
20	2624.0 (FT)	Recovered		

21	2540.0 (FT) Recovered		
22	2410.0 (FT) Partial Core	PARTIAL	
23	2413.0 (FT) Recovered	1/2 BROKEN	REDRILL #22
24	2290.0 (FT) Recovered		
25	2230.0 (FT) Recovered	SPLIT	
26	2085.0 (FT) Recovered		
27	1978.0 (FT) Recovered		
28	1940.0 (FT) Recovered	2 PIECE CORE	
29	1750.0 (FT) Recovered		
30	1701.6 (FT) Recovered		
31	1542.0 (FT) Recovered	3/4 CORE	
32	3972.1 (FT) Recovered		

Company: Battelle Pacific Northwest Lab Well: Wallula Basalt Pilot #1

### Output DLIS Files

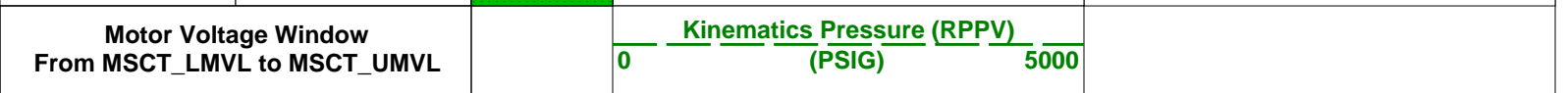
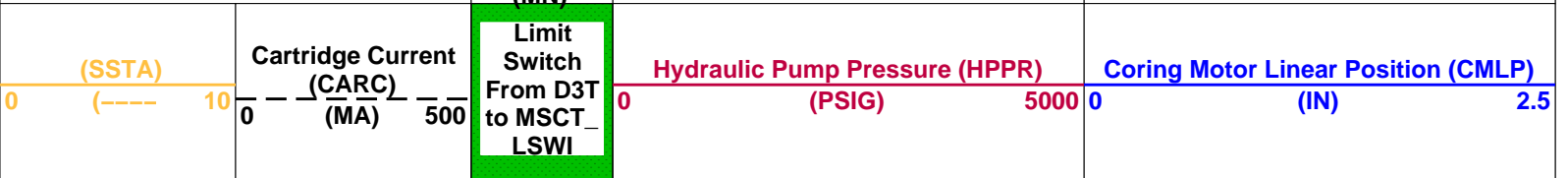
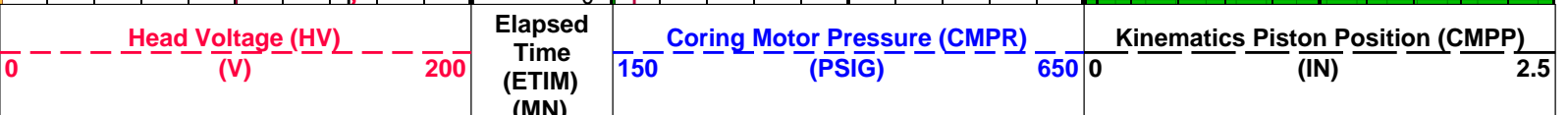
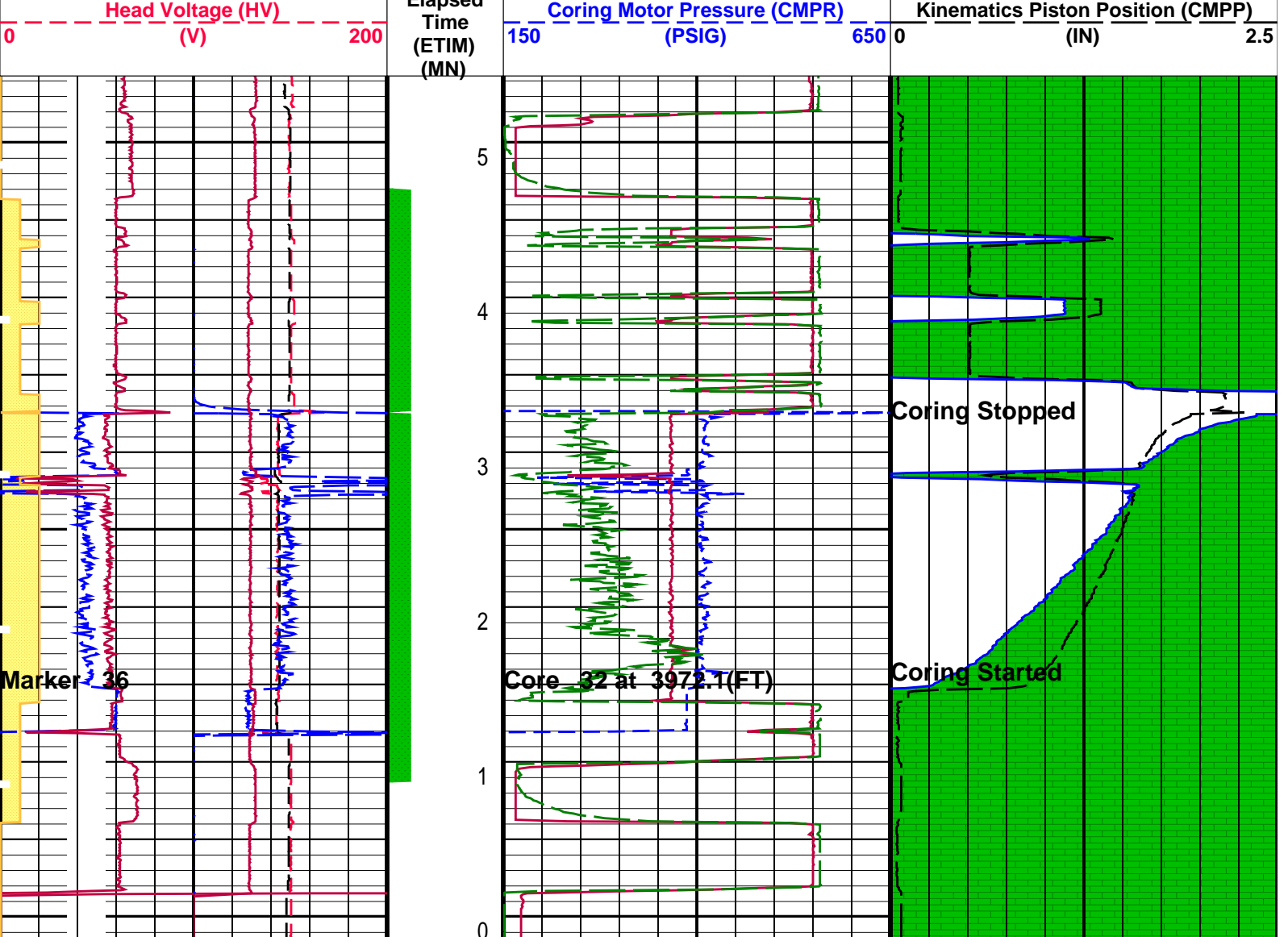
DEFAULT      MSCT\_075LTP      FN:93    PRODUCER    19-Apr-2009 12:22    3972.0 FT

Elapsed Time (s)	Event Summary
201.2	Coring Stopped
100.0	Coring Started
96.8	Marker 36
96.8	Core 32 at 3972.1(FT)

### PIP SUMMARY

Time Mark Every 60 S

	<b>Hydraulic Motor Current (HMCU)</b> 0 (AMPS) 2		<b>Coring Motor Current (CMCU)</b> 2.5 (AMPS) 5		
	<b>Hydraulic Motor Downhole Voltage (HMDV)</b> 500 (V) 1000				
	<b>Coring Motor Downhole Voltage (CMDV)</b> 500 (V) 1000				
	<b>Motor Voltage Window</b> From MSCT_LMVL to MSCT_UMVL		<b>Kinematics Pressure (RPPV)</b> 0 (PSIG) 5000		
<b>(SSTA)</b> 0 (----) 10	<b>Cartridge Current (CARC)</b> 0 (MA) 500	<b>Limit Switch</b> From D3T to MSCT_LSWI	<b>Hydraulic Pump Pressure (HPPR)</b> 0 (PSIG) 5000	<b>Coring Motor Linear Position (CMLP)</b> 0 (IN) 2.5	
	<b>Elapsed</b>				



PIP SUMMARY

# Parameters

<b>DLIS Name</b>	<b>Description</b>	<b>Value</b>
------------------	--------------------	--------------

SOFF	MSCT-AA: Mechanical Sidewall Coring Tool Standoff	0 IN
------	---	------

Format: MSCT_PROPRIETARY_ALL_Station	Vertical Scale: 1" per 60S	Graphics File Created: 19-Apr-2009 12:22
--------------------------------------	----------------------------	--

## OP System Version: 17C0-154

MSCT-AA	17C0-154	SGT-E	17C0-154
---------	----------	-------	----------

## Output DLIS Files

DEFAULT	MSCT_075LTP	FN:93	PRODUCER	19-Apr-2009 12:22
---------	-------------	-------	----------	-------------------

Company: Battelle Pacific Northwest Lab	Well: Wallula Basalt Pilot #1
---	-------------------------------

## Output DLIS Files

DEFAULT	MSCT_074LTP	FN:92	PRODUCER	19-Apr-2009 08:17	3919.7 FT
---------	-------------	-------	----------	-------------------	-----------

Elapsed Time (s)	Event Summary
13738.0	Coring Stopped
13621.6	Coring Started
13617.6	Marker 35
13617.6	Core 31 at 1542.0(FT)
13401.6	Coring Stopped
13315.2	Coring Started
13311.6	Marker 34
13311.6	Core 30 at 1701.6(FT)
13152.0	Coring Stopped
12758.0	Coring Started
12754.8	Marker 33
12754.8	Core 29 at 1750.0(FT)
11963.6	Coring Stopped
11845.6	Coring Started
11842.4	Marker 32
11842.4	Core 28 at 1940.0(FT)
11664.4	Coring Stopped
11567.2	Coring Started
11563.6	Marker 31
11563.6	Core 27 at 1978.0(FT)
11340.4	Coring Stopped
11219.6	Coring Started
11216.0	Marker 30
11216.0	Core 26 at 2085.0(FT)
10935.2	Coring Stopped
10776.4	Coring Started
10772.8	Marker 29
10772.8	Core 25 at 2230.0(FT)
10564.8	Coring Stopped
10369.6	Coring Started
10365.2	Marker 28

10303.2	Marker 26
10365.2	Core 24 at 2290.0(FT)
10134.8	Coring Stopped
10112.8	Coring Started
10109.2	Marker 27
10109.2	Core 23 at 2413.0(FT)
9943.6	Coring Stopped
9932.8	Coring Started
9929.6	Marker 26
9929.6	Core 22 at 2410.0(FT)
9664.8	Coring Stopped
9517.2	Coring Started
9513.6	Marker 25
9513.6	Core 21 at 2540.0(FT)
9255.2	Coring Stopped
9163.6	Coring Started
9160.4	Marker 24
9160.4	Core 20 at 2624.0(FT)
8687.2	Coring Stopped
8595.6	Coring Started
8591.6	Marker 23
8591.6	Core 19 at 2688.0(FT)
8347.2	Coring Stopped
8274.8	Coring Started
8271.2	Marker 22
8271.2	Core 18 at 2750.0(FT)
8048.0	Coring Stopped
7966.8	Coring Started
7963.6	Marker 21
7963.6	Core 17 at 2810.0(FT)
7705.2	Coring Stopped
7563.2	Coring Started
7560.0	Marker 20
7560.0	Core 16 at 2920.0(FT)
7366.4	Coring Stopped
7291.2	Coring Started
7287.2	Marker 19
7287.2	Core 15 at 2940.0(FT)
7084.4	Coring Stopped
6893.6	Coring Started
6890.4	Marker 18
6890.4	Core 14 at 2955.8(FT)
6615.6	Coring Stopped
6558.4	Coring Started
6555.2	Marker 17
6555.2	Core 13 at 3002.0(FT)
6296.8	Coring Stopped
6198.8	Coring Started
6195.6	Marker 16
6195.6	Core 12 at 3110.3(FT)
5946.0	Coring Stopped
5865.6	Coring Started
5862.4	Marker 15
5862.4	Core 11 at 3165.9(FT)
5572.4	Coring Stopped
5252.0	Coring Started



5252.0	Coring Started
5248.0	Marker 14
5248.0	Core 10 at 3245.0(FT)
5085.2	Coring Stopped
5008.4	Coring Started
5005.2	Marker 13
5005.2	Core 9 at 3257.9(FT)
4519.2	Coring Stopped
4462.8	Coring Started
4460.0	Marker 12
4460.0	Core 8 at 3613.9(FT)
4147.2	Coring Stopped
4042.0	Coring Started
4038.8	Marker 11
4038.8	Core 7 at 3395.9(FT)
3709.6	Coring Stopped
3474.0	Coring Started
3470.4	Marker 10
3470.4	Core 6 at 3450.0(FT)
3252.4	Coring Stopped
3160.0	Coring Started
3156.4	Marker 9
3156.4	Core 5 at 3490.0(FT)
2881.6	Coring Stopped
2446.4	Coring Started
2443.6	Marker 8
2443.6	Core 4 at 3539.9(FT)
2175.2	Coring Stopped
2038.8	Coring Started
2035.6	Marker 7
2035.6	Core 3 at 3590.0(FT)
1725.2	Coring Stopped
1632.0	Coring Started
1628.4	Marker 6
1628.4	Core 2 at 3810.4(FT)
1340.0	Coring Stopped
1209.6	Coring Started
1207.6	Marker 5
1207.6	Core 2 at 3918.0(FT)
1093.6	Coring Stopped
1060.0	Coring Started
1057.6	Marker 4
1057.6	Core 2 at 3910.1(FT)
947.6	Coring Stopped
861.2	Coring Started
858.8	Marker 3
858.8	Core 2 at 3914.0(FT)
364.4	Coring Stopped
266.0	Coring Started
262.8	Marker 2
262.8	Core 1 at 3914.0(FT)

Hydraulic Motor Current (HMCU)		
0	(AMPS)	2
Coring Motor Current (CMCU)		
2.5	(AMPS)	5

Hydraulic Motor Downhole Voltage (HMDV)		
500	(V)	1000

Coring Motor Downhole Voltage (CMDV)		
500	(V)	1000

Motor Voltage Window  
From MSCT\_LMVL to MSCT\_UMVL

(SSTA)		Cartridge Current (CARC)
0	10	
		(MA)
		0 500

Limit Switch  
From D3T to MSCT\_LSWI

Kinematics Pressure (RPPV)		
0	(PSIG)	5000

Hydraulic Pump Pressure (HPPR)		
0	(PSIG)	5000

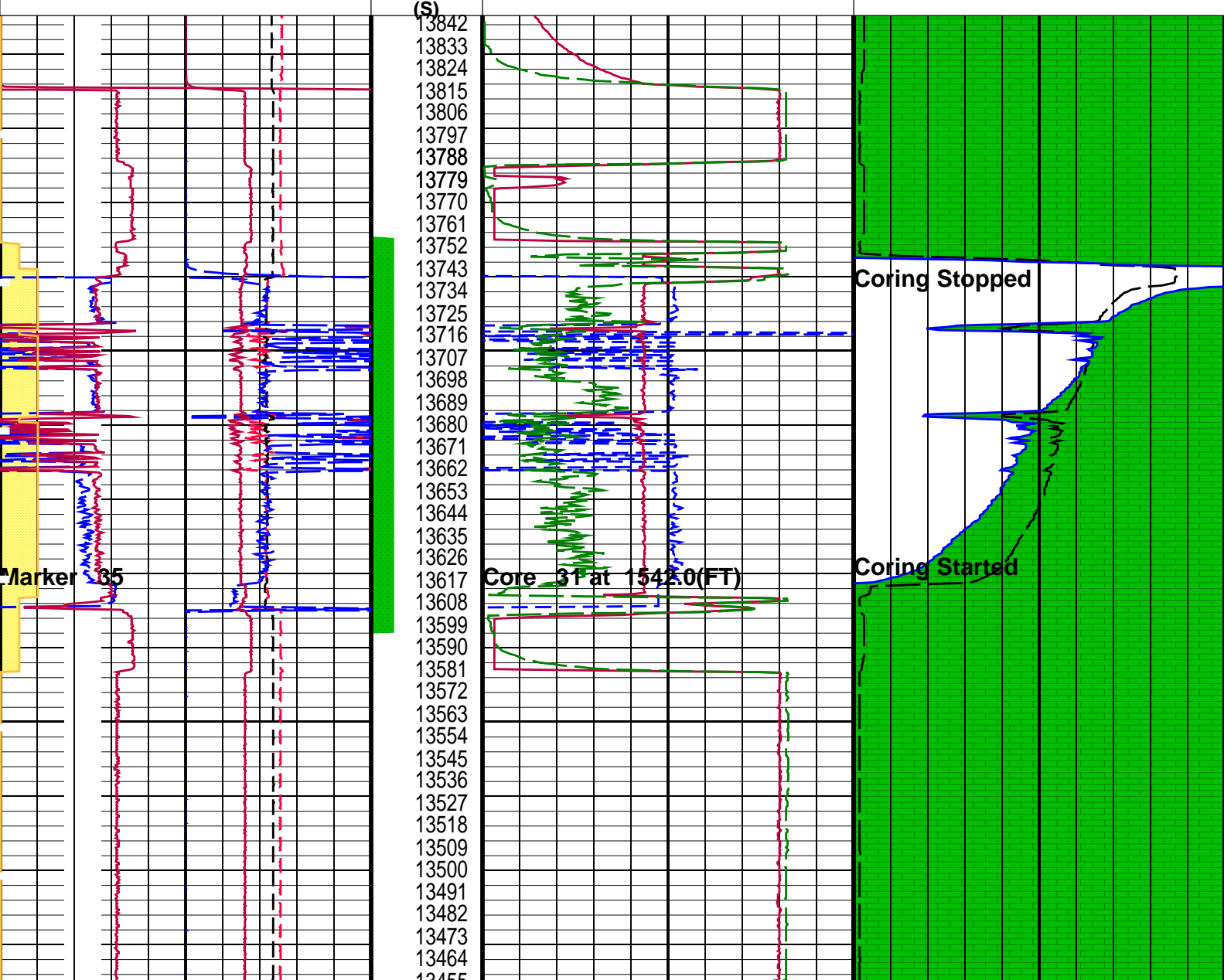
Coring Motor Linear Position (CMLP)		
0	(IN)	2.5

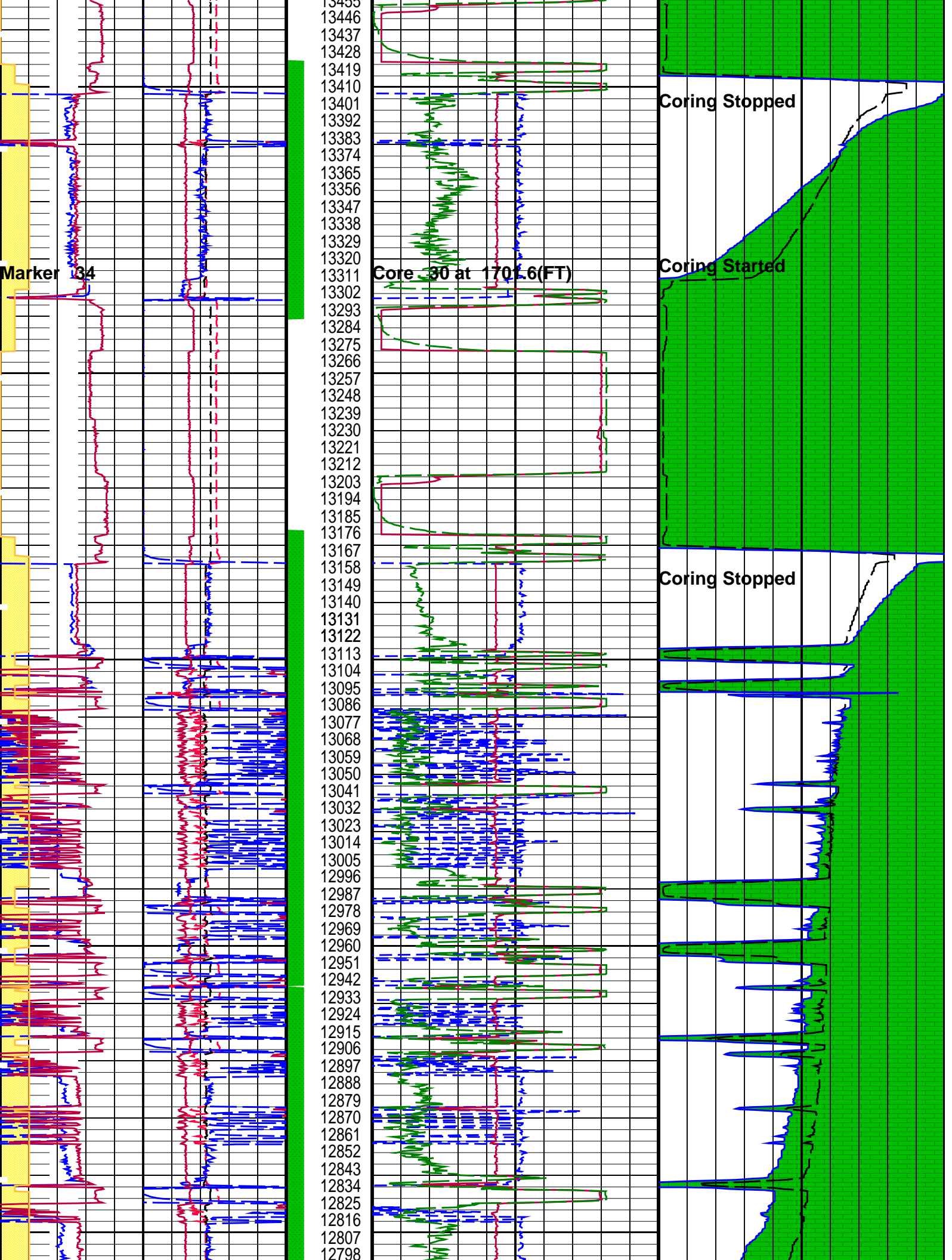
Head Voltage (HV)		
0	(V)	200

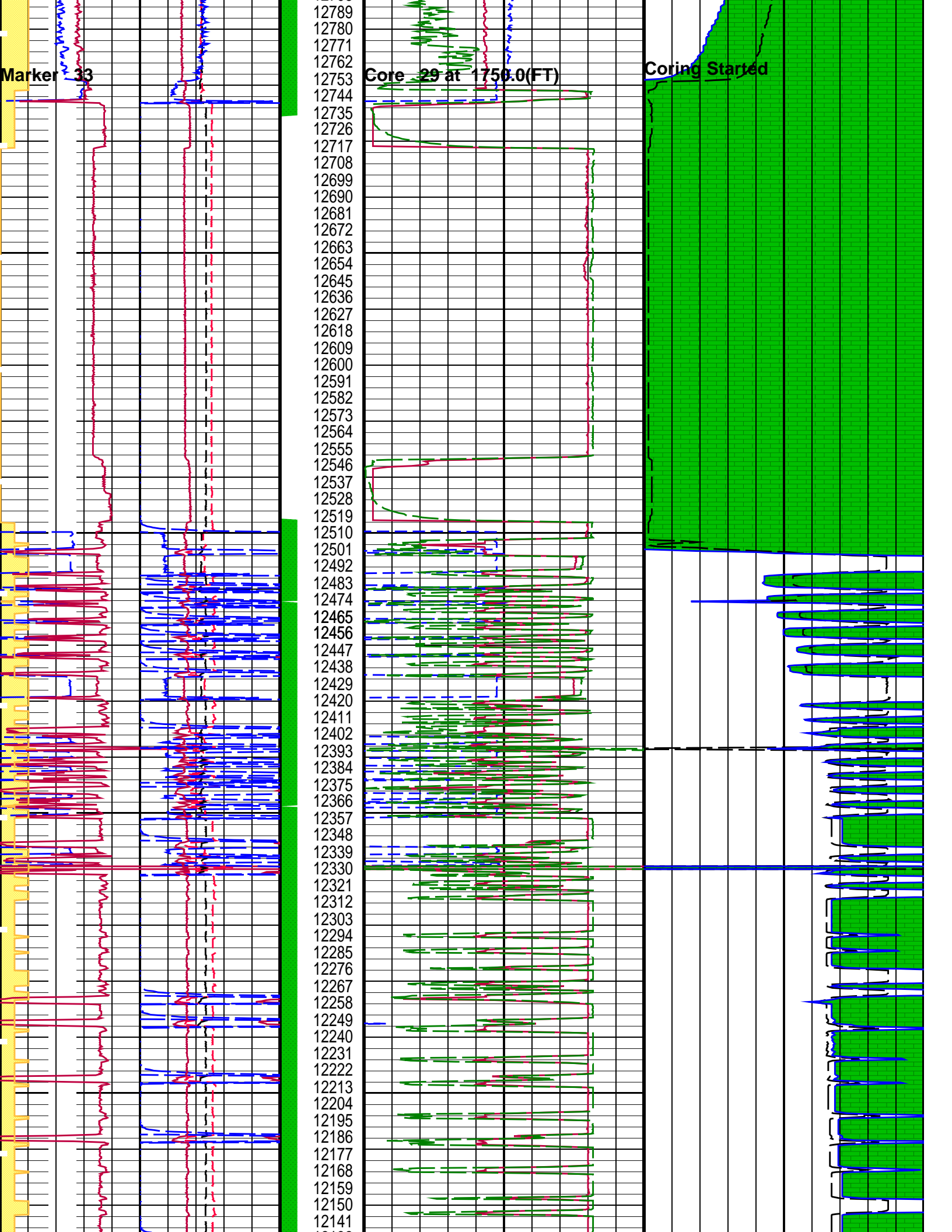
Elapsed Time (ETIM) (S)

Coring Motor Pressure (CMPR)		
150	(PSIG)	650

Kinematics Piston Position (CMPP)		
0	(IN)	2.5





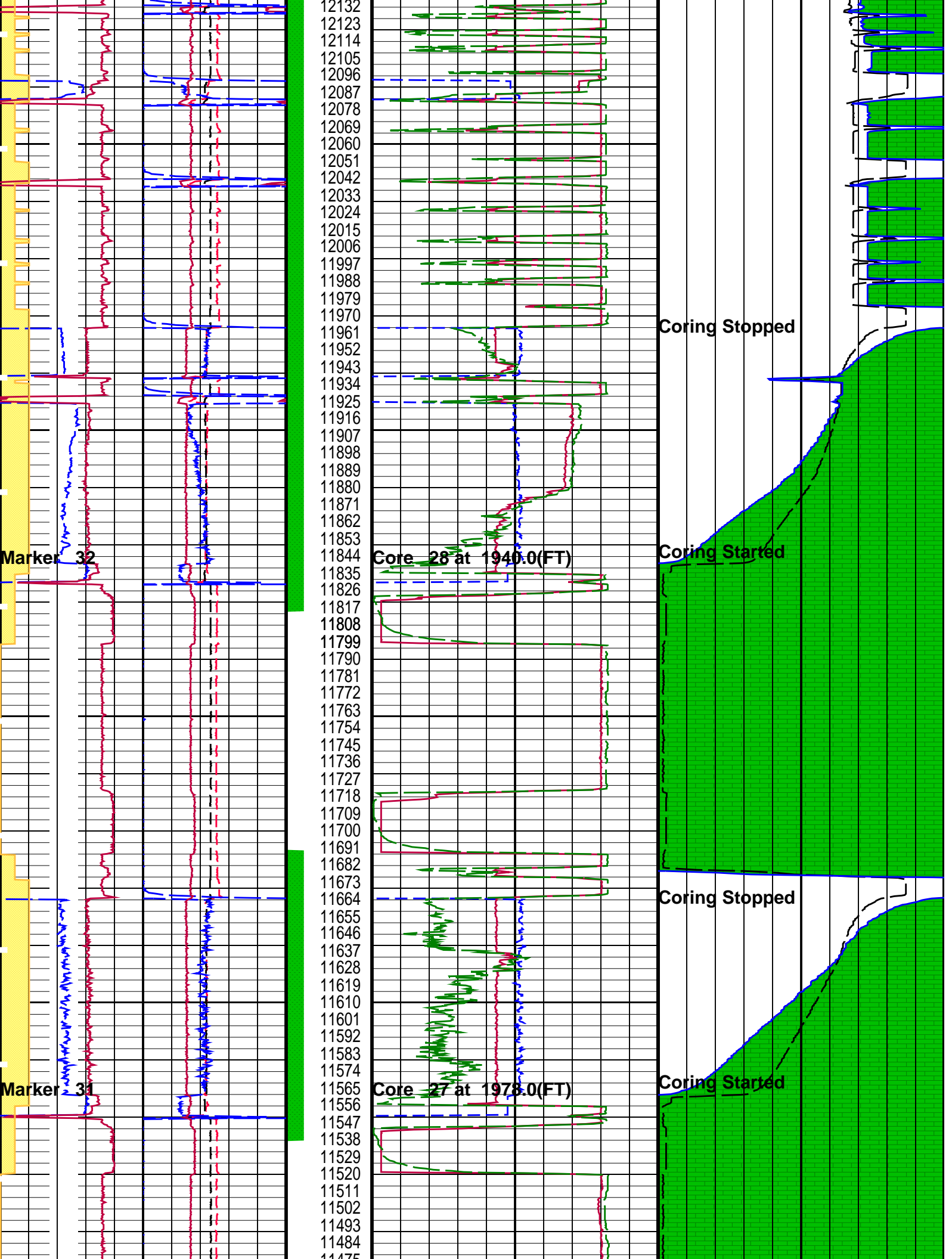


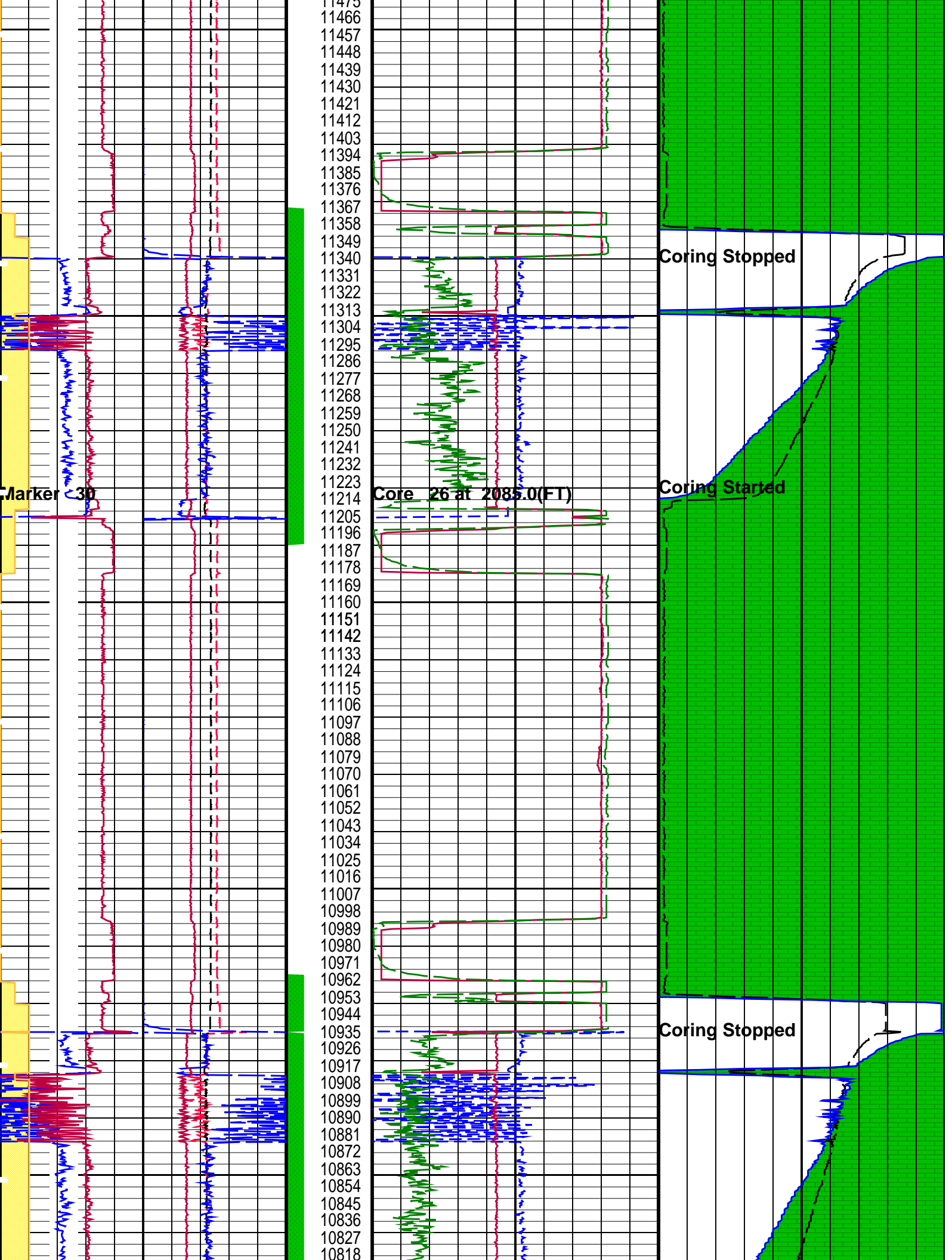
12789  
12780  
12771  
12762  
12753  
12744  
12735  
12726  
12717  
12708  
12699  
12690  
12681  
12672  
12663  
12654  
12645  
12636  
12627  
12618  
12609  
12600  
12591  
12582  
12573  
12564  
12555  
12546  
12537  
12528  
12519  
12510  
12501  
12492  
12483  
12474  
12465  
12456  
12447  
12438  
12429  
12420  
12411  
12402  
12393  
12384  
12375  
12366  
12357  
12348  
12339  
12330  
12321  
12312  
12303  
12294  
12285  
12276  
12267  
12258  
12249  
12240  
12231  
12222  
12213  
12204  
12195  
12186  
12177  
12168  
12159  
12150  
12141

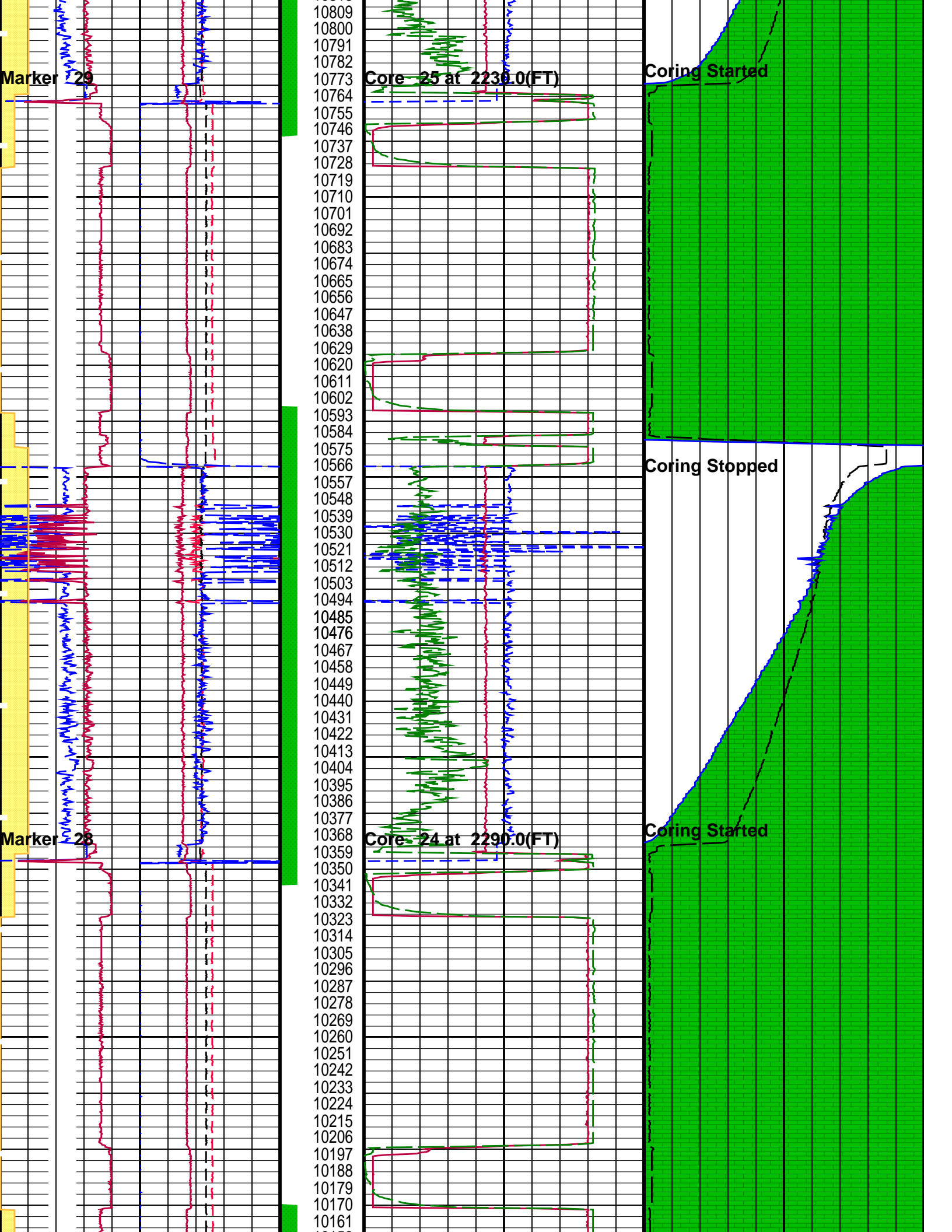
Marker 33

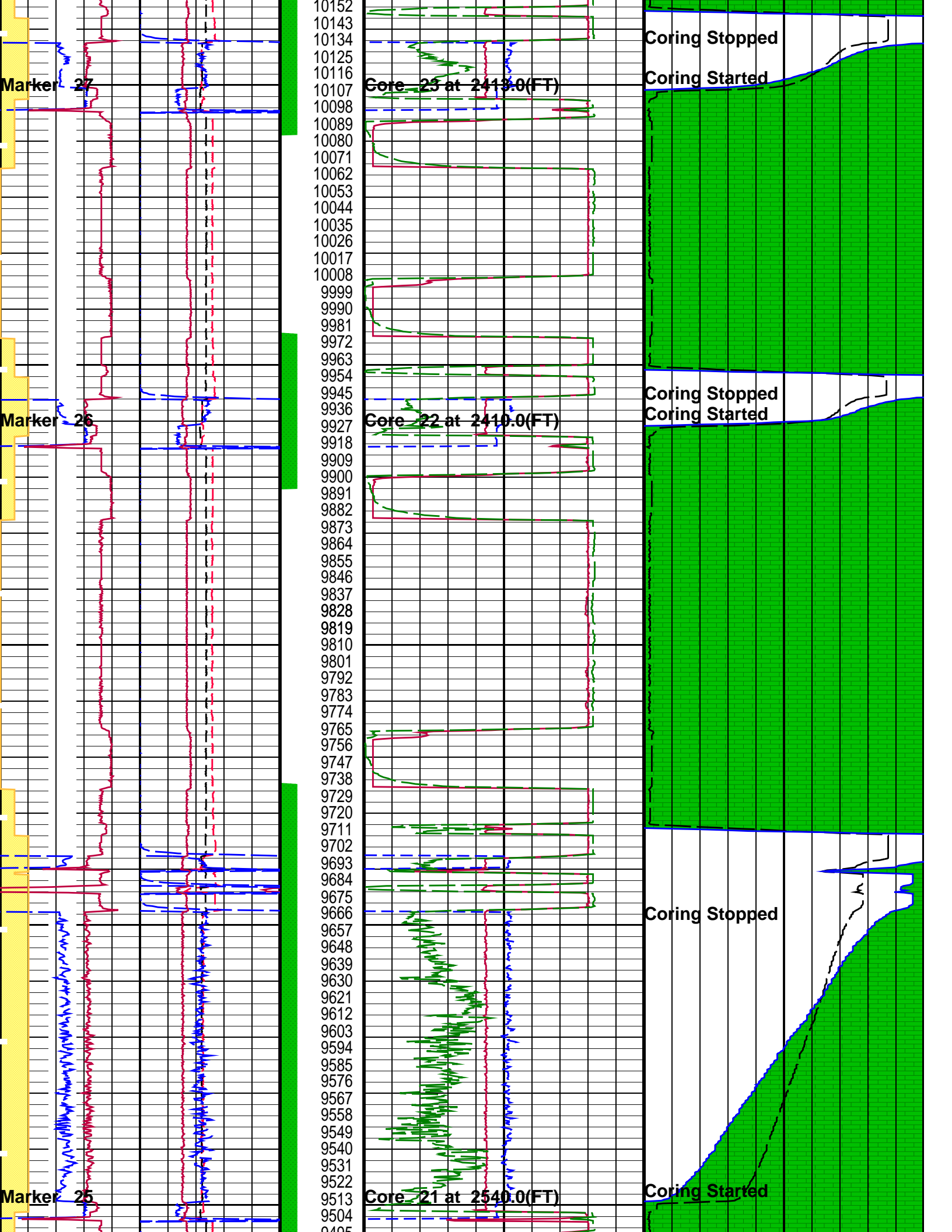
Core 29 at 1750.0(FT)

Coring Started

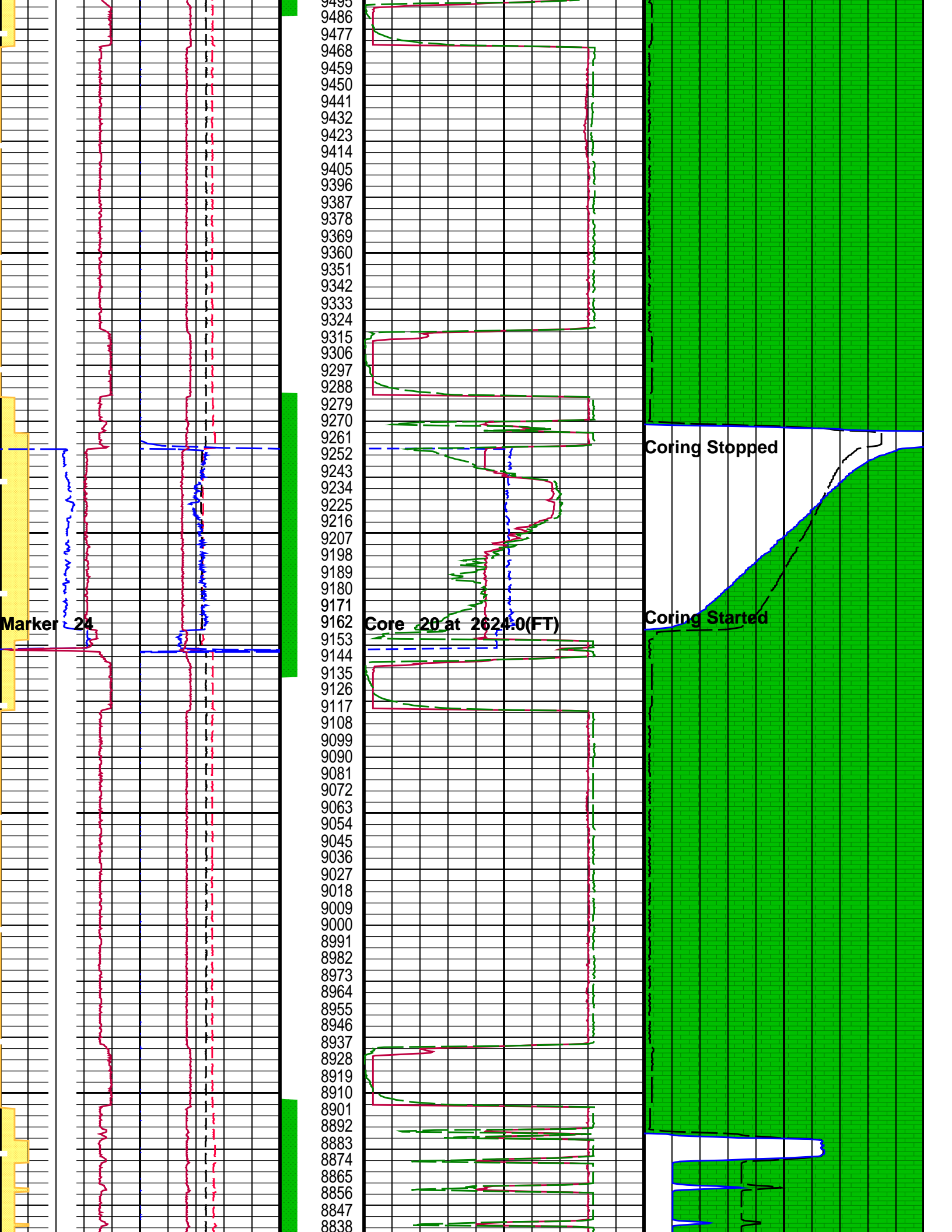


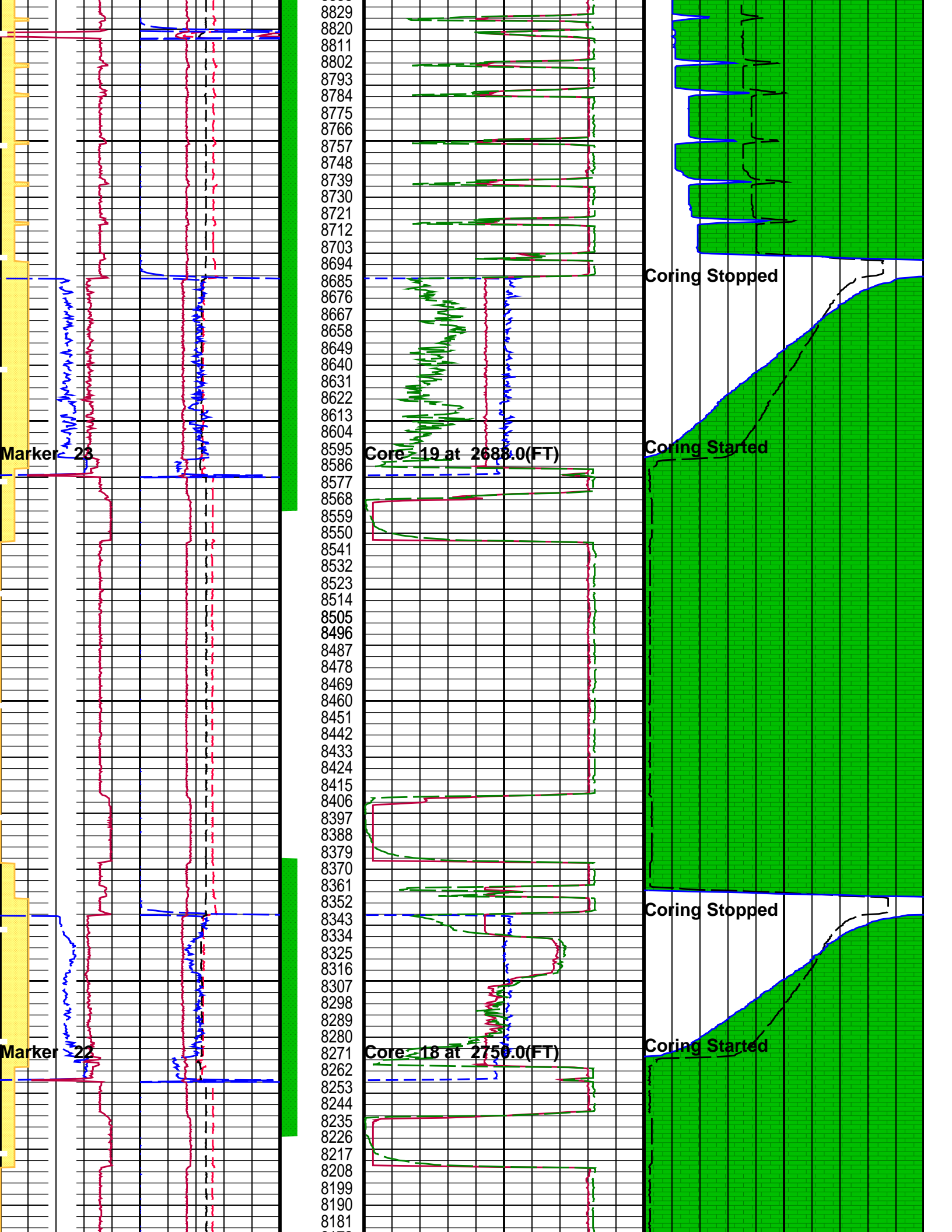












8829  
8820  
8811  
8802  
8793  
8784  
8775  
8766  
8757  
8748  
8739  
8730  
8721  
8712  
8703  
8694  
8685  
8676  
8667  
8658  
8649  
8640  
8631  
8622  
8613  
8604  
8595  
8586  
8577  
8568  
8559  
8550  
8541  
8532  
8523  
8514  
8505  
8496  
8487  
8478  
8469  
8460  
8451  
8442  
8433  
8424  
8415  
8406  
8397  
8388  
8379  
8370  
8361  
8352  
8343  
8334  
8325  
8316  
8307  
8298  
8289  
8280  
8271  
8262  
8253  
8244  
8235  
8226  
8217  
8208  
8199  
8190  
8181

Coring Stopped

Coring Started

Core 19 at 2688.0(FT)

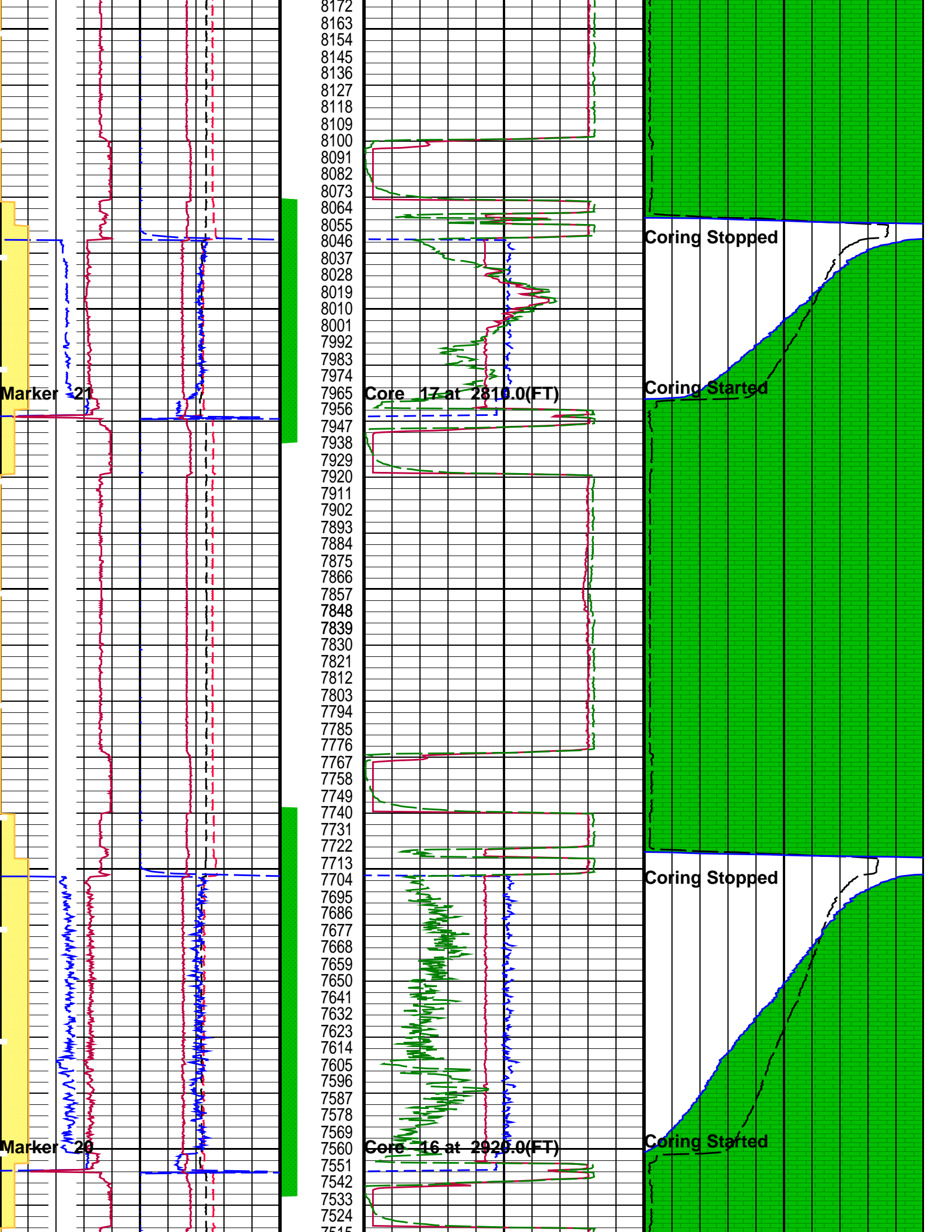
Coring Stopped

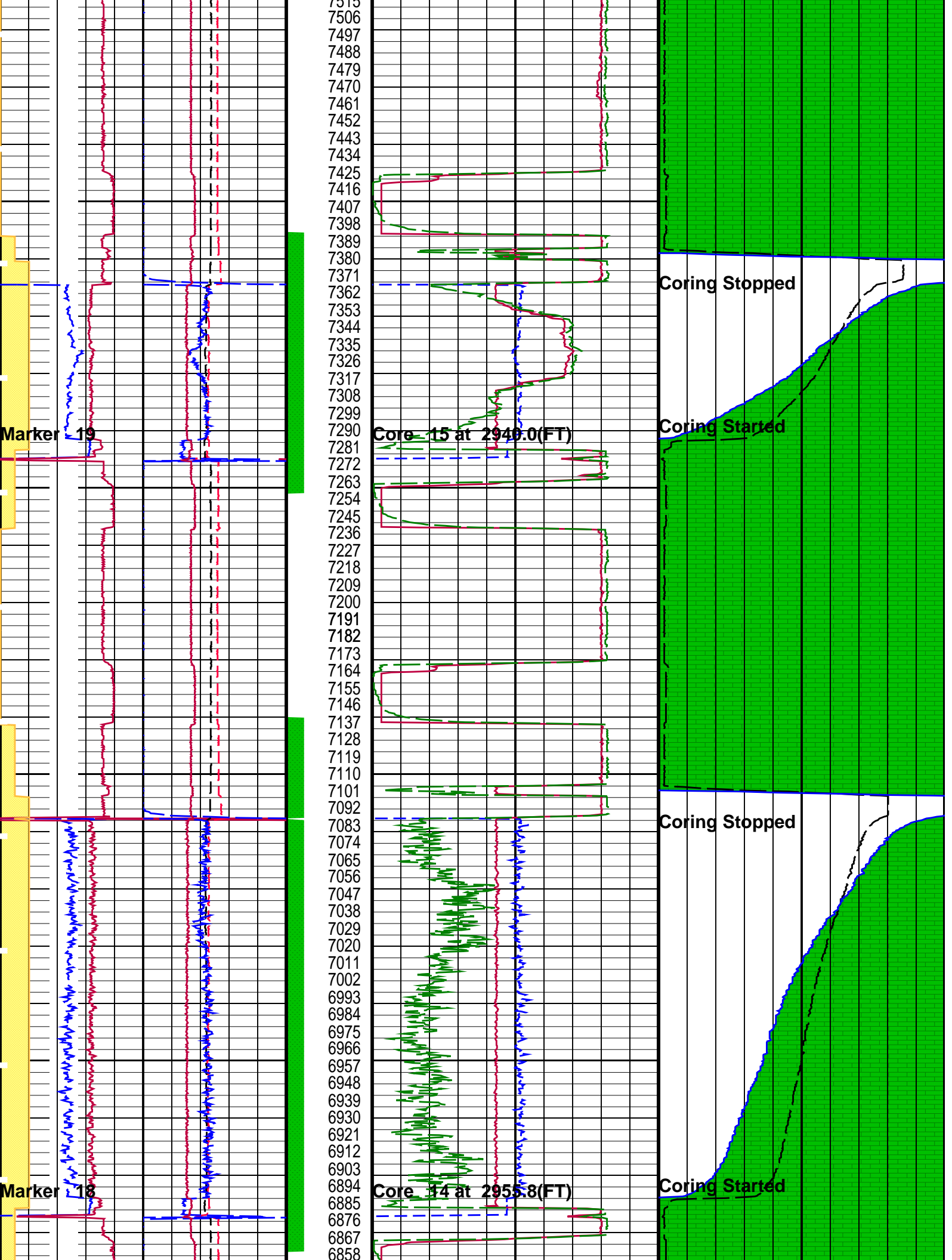
Coring Started

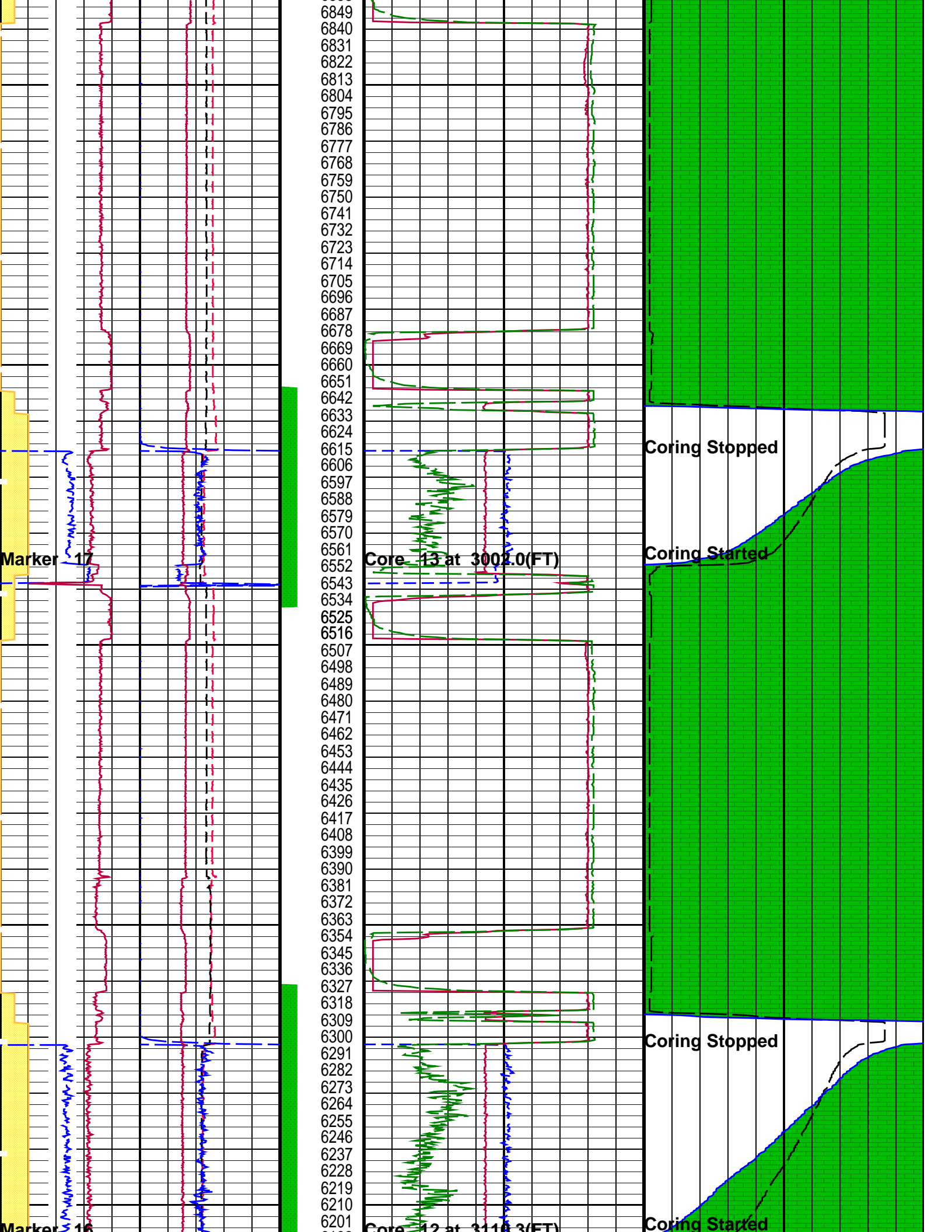
Core 18 at 2750.0(FT)

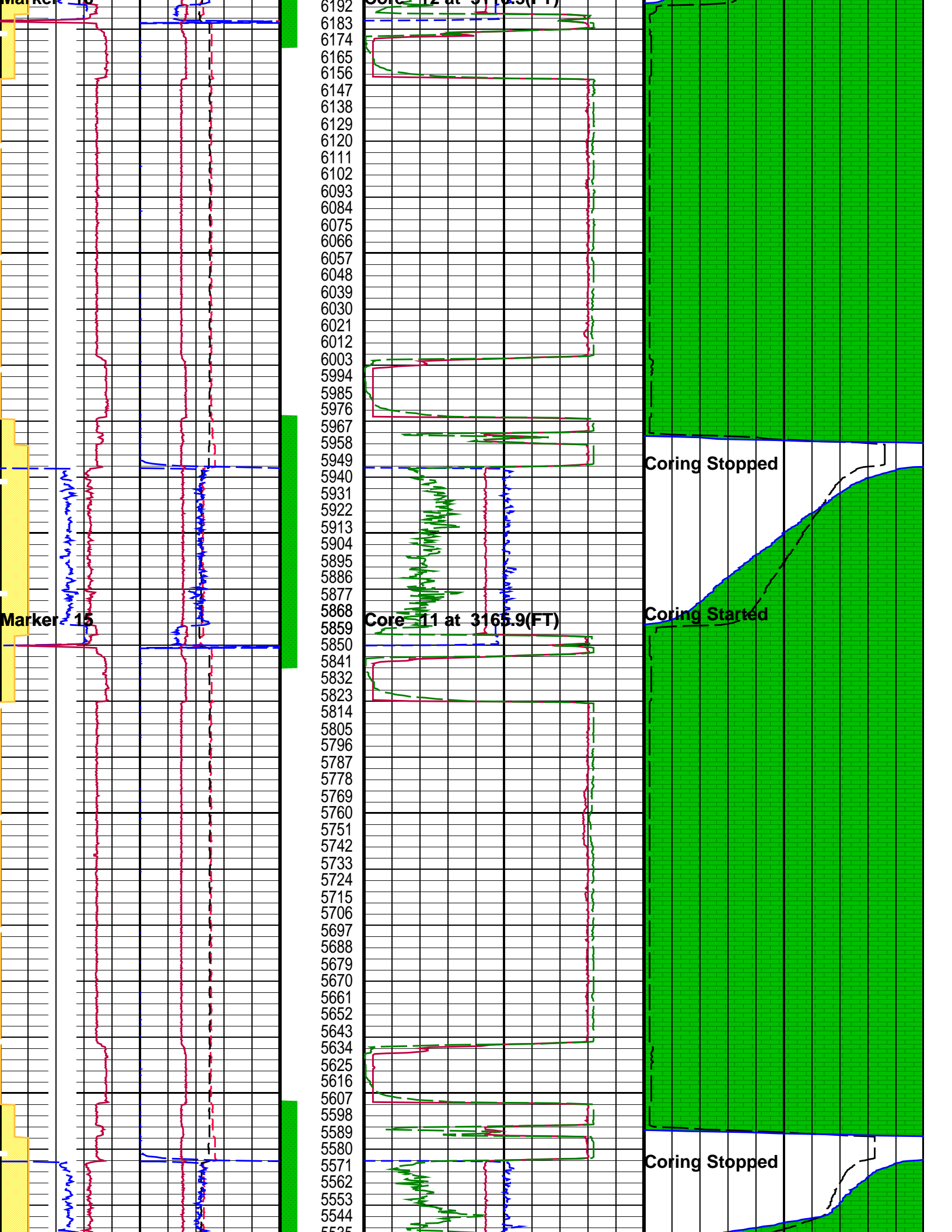
Marker 23

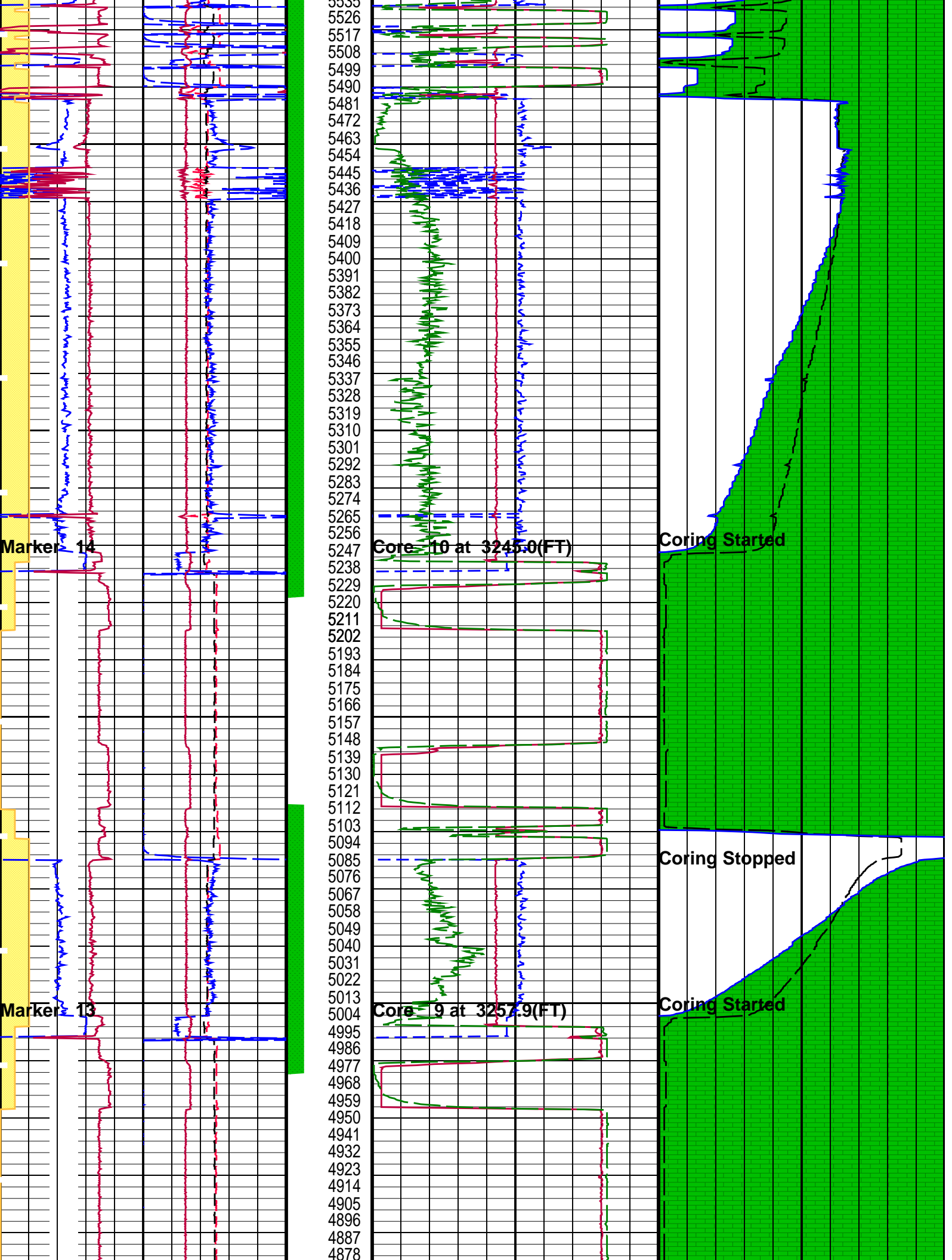
Marker 22

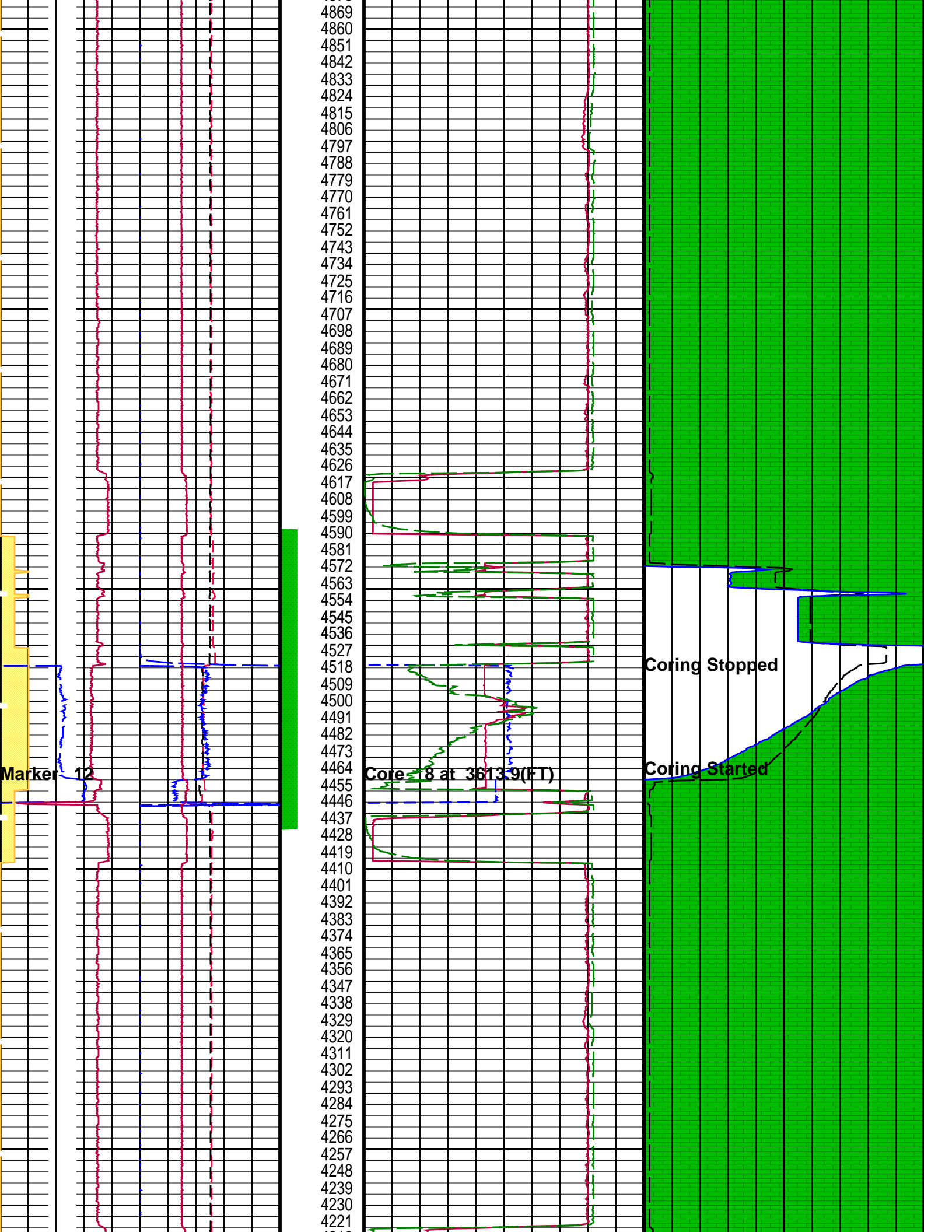




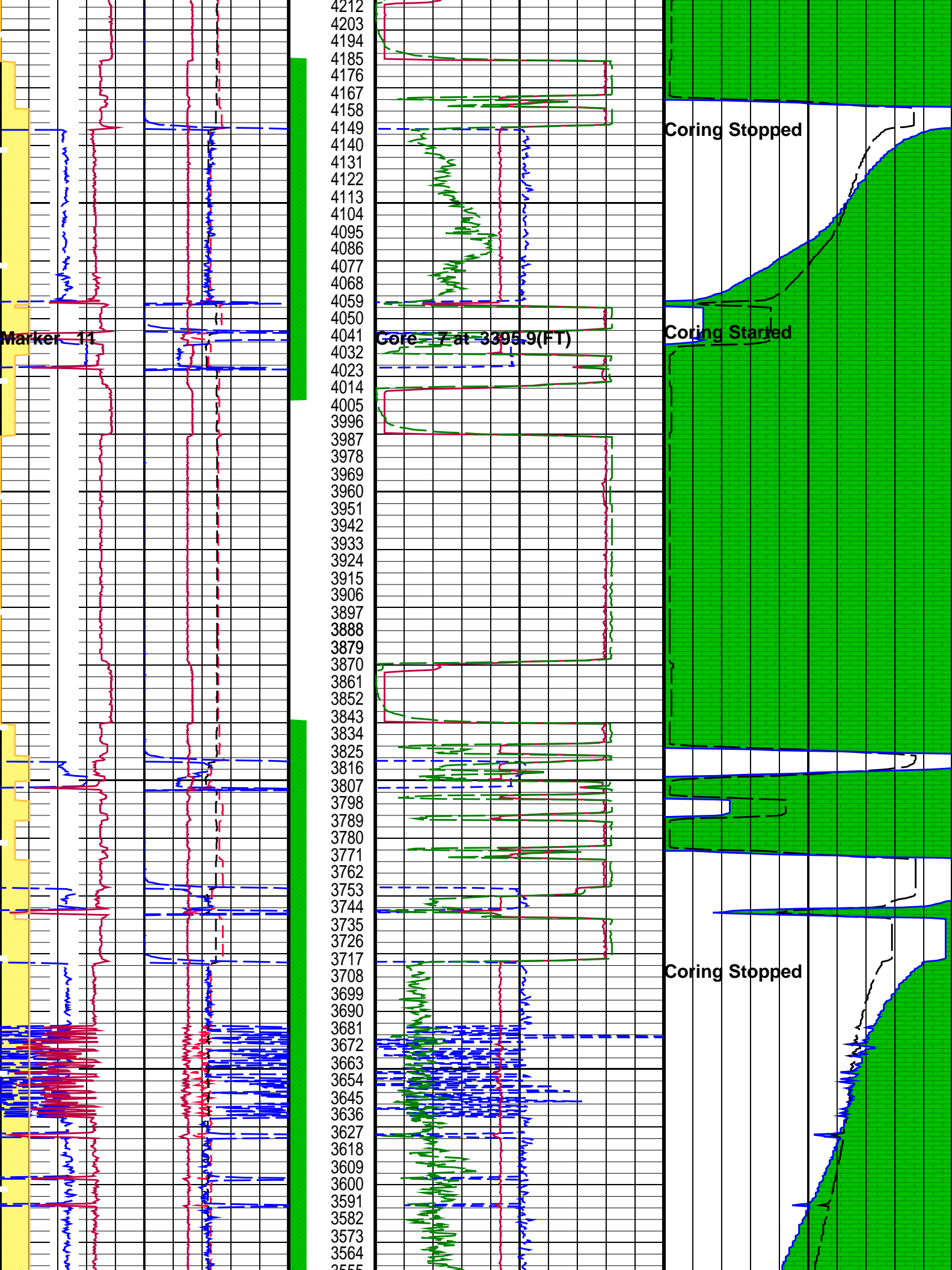












4212  
4203  
4194  
4185  
4176  
4167  
4158  
4149  
4140  
4131  
4122  
4113  
4104  
4095  
4086  
4077  
4068  
4059  
4050  
4041  
4032  
4023  
4014  
4005  
3996  
3987  
3978  
3969  
3960  
3951  
3942  
3933  
3924  
3915  
3906  
3897  
3888  
3879  
3870  
3861  
3852  
3843  
3834  
3825  
3816  
3807  
3798  
3789  
3780  
3771  
3762  
3753  
3744  
3735  
3726  
3717  
3708  
3699  
3690  
3681  
3672  
3663  
3654  
3645  
3636  
3627  
3618  
3609  
3600  
3591  
3582  
3573  
3564  
3555

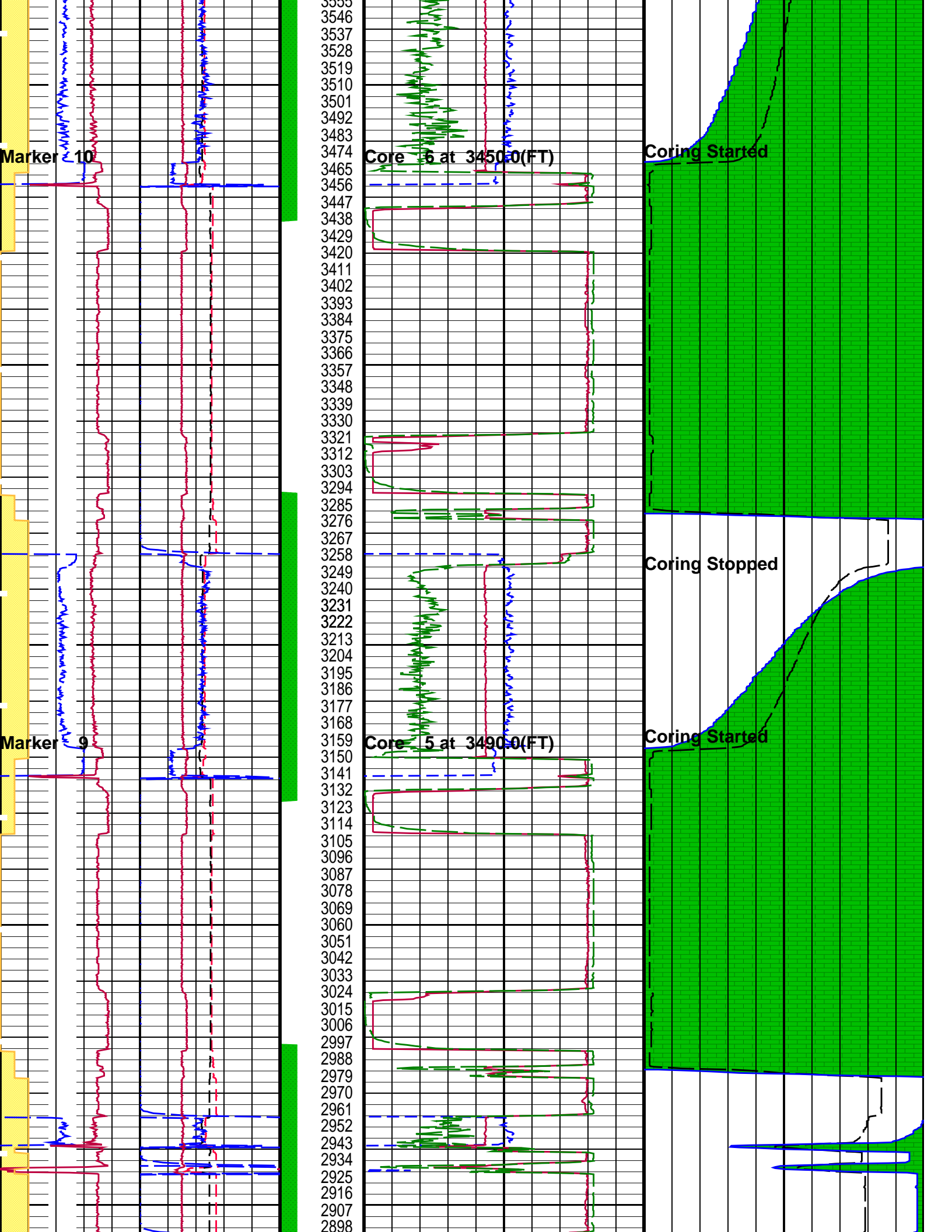
Marker 11

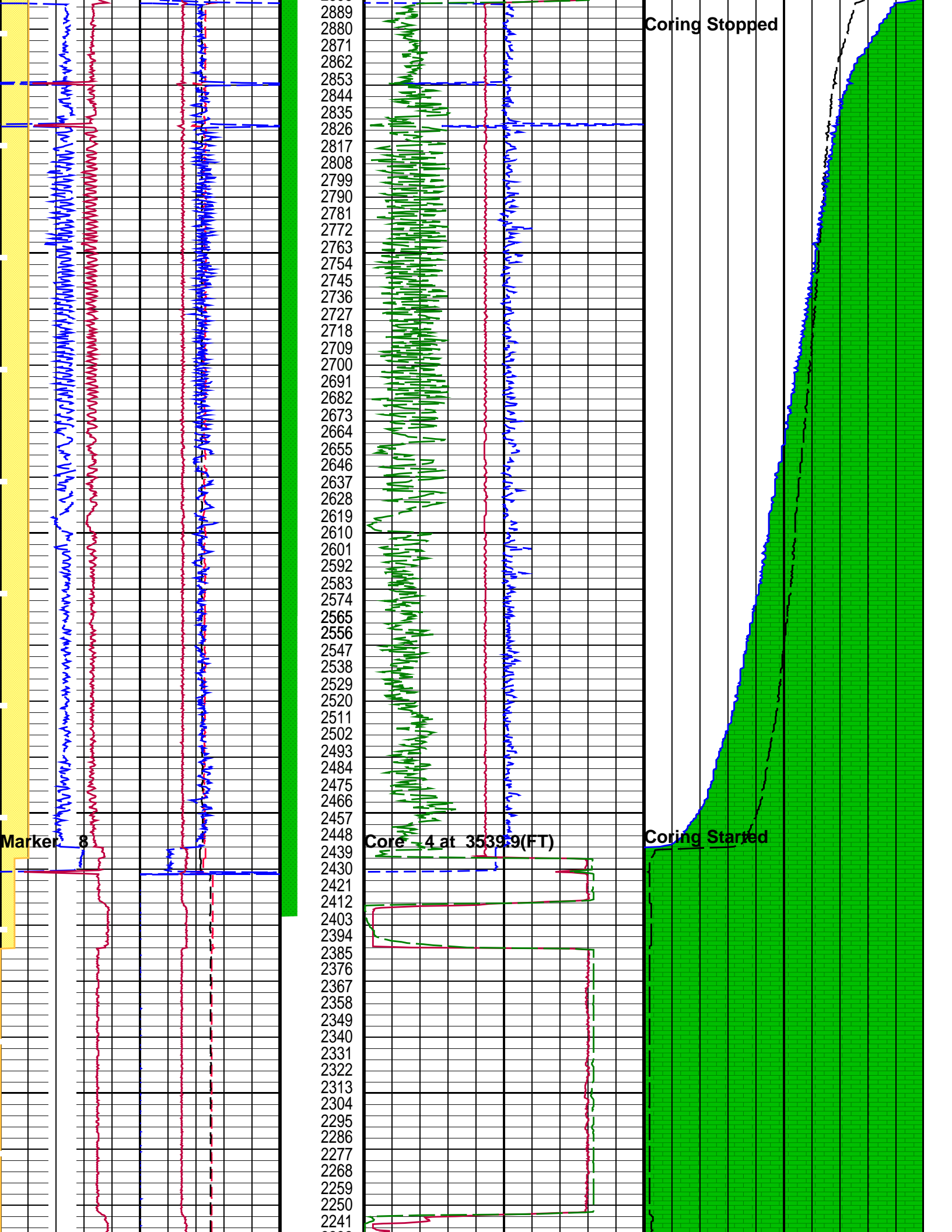
Core 7 at 3395.9(FT)

Coring Stopped

Coring Started

Coring Stopped





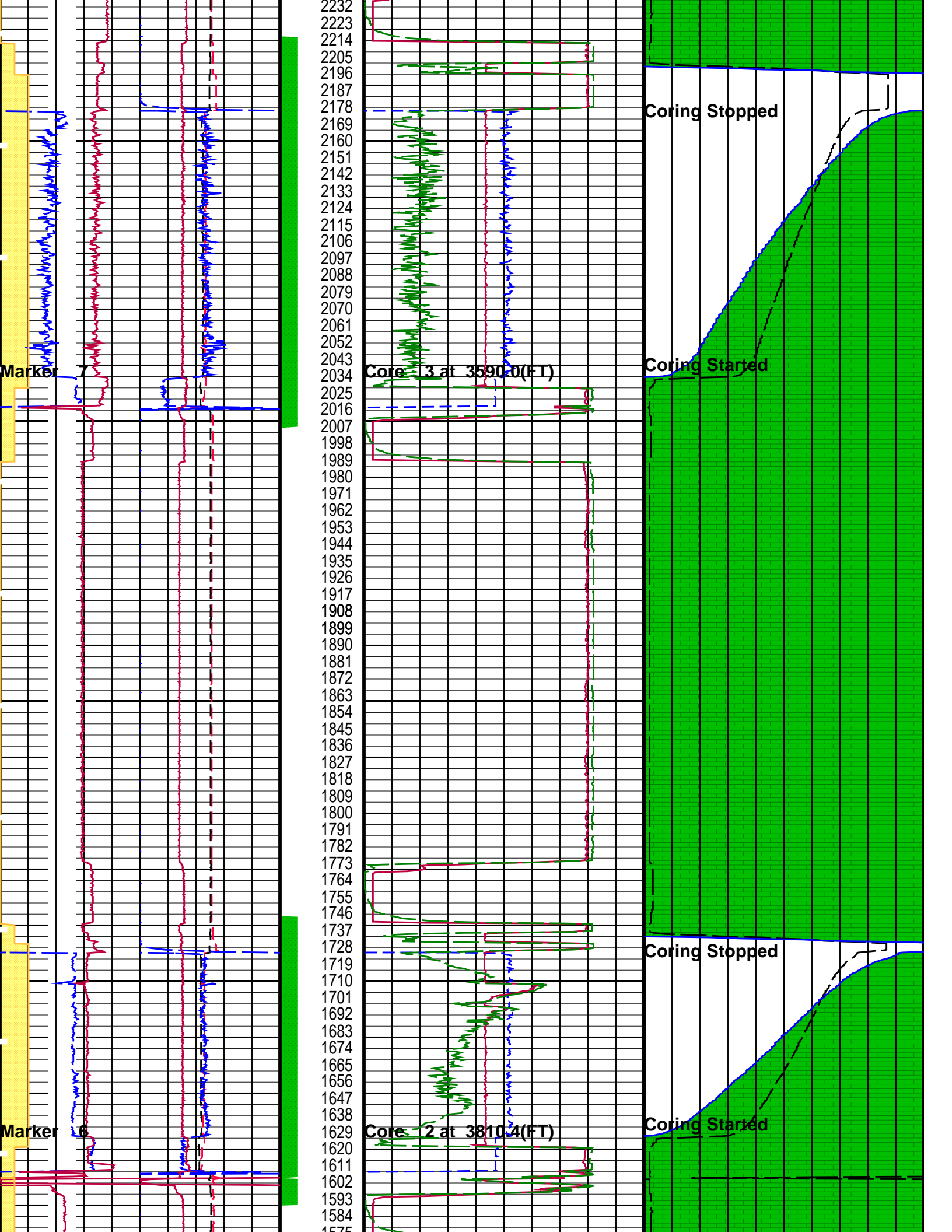
2889  
2880  
2871  
2862  
2853  
2844  
2835  
2826  
2817  
2808  
2799  
2790  
2781  
2772  
2763  
2754  
2745  
2736  
2727  
2718  
2709  
2700  
2691  
2682  
2673  
2664  
2655  
2646  
2637  
2628  
2619  
2610  
2601  
2592  
2583  
2574  
2565  
2556  
2547  
2538  
2529  
2520  
2511  
2502  
2493  
2484  
2475  
2466  
2457  
2448  
2439  
2430  
2421  
2412  
2403  
2394  
2385  
2376  
2367  
2358  
2349  
2340  
2331  
2322  
2313  
2304  
2295  
2286  
2277  
2268  
2259  
2250  
2241

Coring Stopped

Marker 8

Core 4 at 3539.9(FT)

Coring Started



2232  
2223  
2214  
2205  
2196  
2187  
2178  
2169  
2160  
2151  
2142  
2133  
2124  
2115  
2106  
2097  
2088  
2079  
2070  
2061  
2052  
2043  
2034  
2025  
2016  
2007  
1998  
1989  
1980  
1971  
1962  
1953  
1944  
1935  
1926  
1917  
1908  
1899  
1890  
1881  
1872  
1863  
1854  
1845  
1836  
1827  
1818  
1809  
1800  
1791  
1782  
1773  
1764  
1755  
1746  
1737  
1728  
1719  
1710  
1701  
1692  
1683  
1674  
1665  
1656  
1647  
1638  
1629  
1620  
1611  
1602  
1593  
1584  
1575

Marker 7

Core 3 at 3590.0(FT)

Marker 6

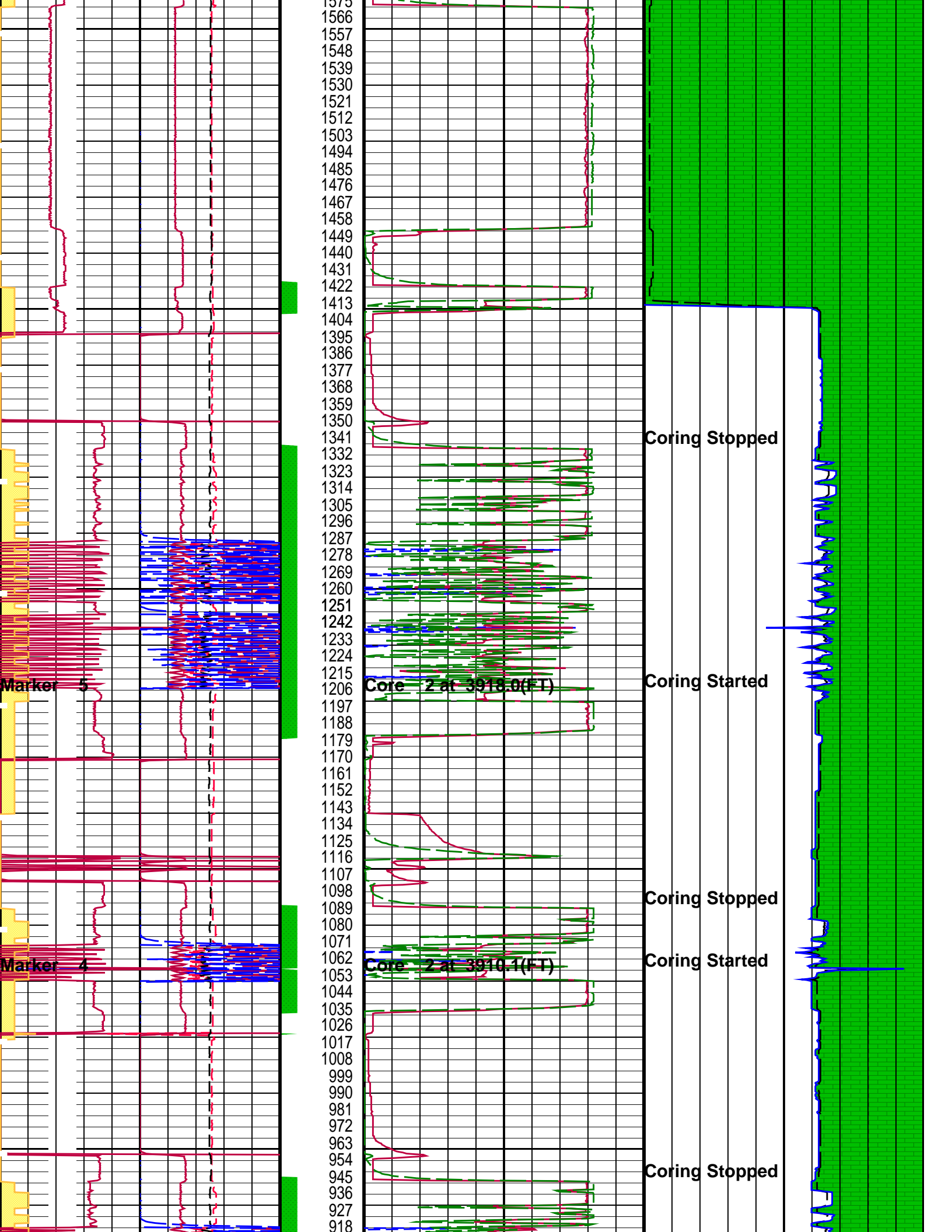
Core 2 at 3810.4(FT)

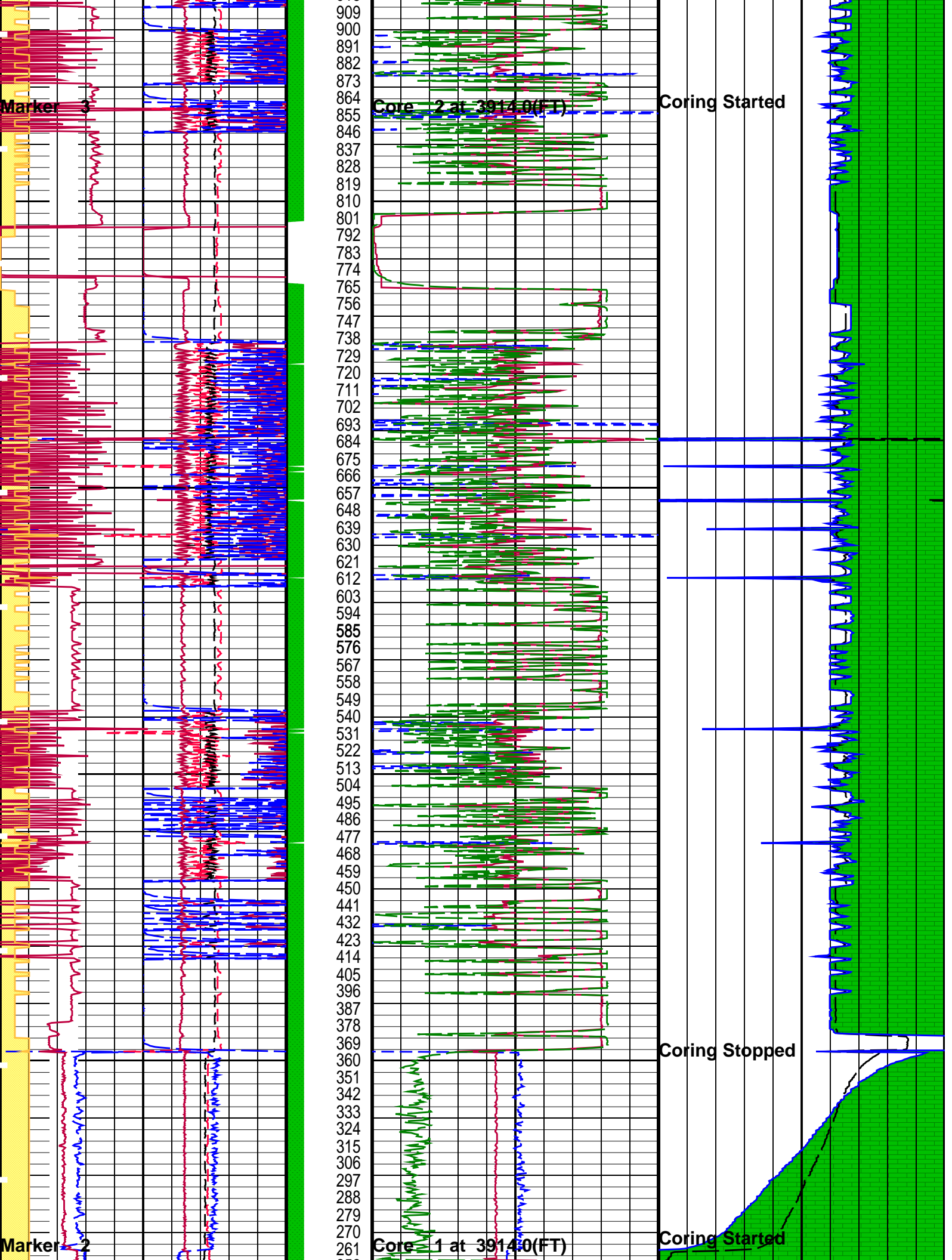
Coring Stopped

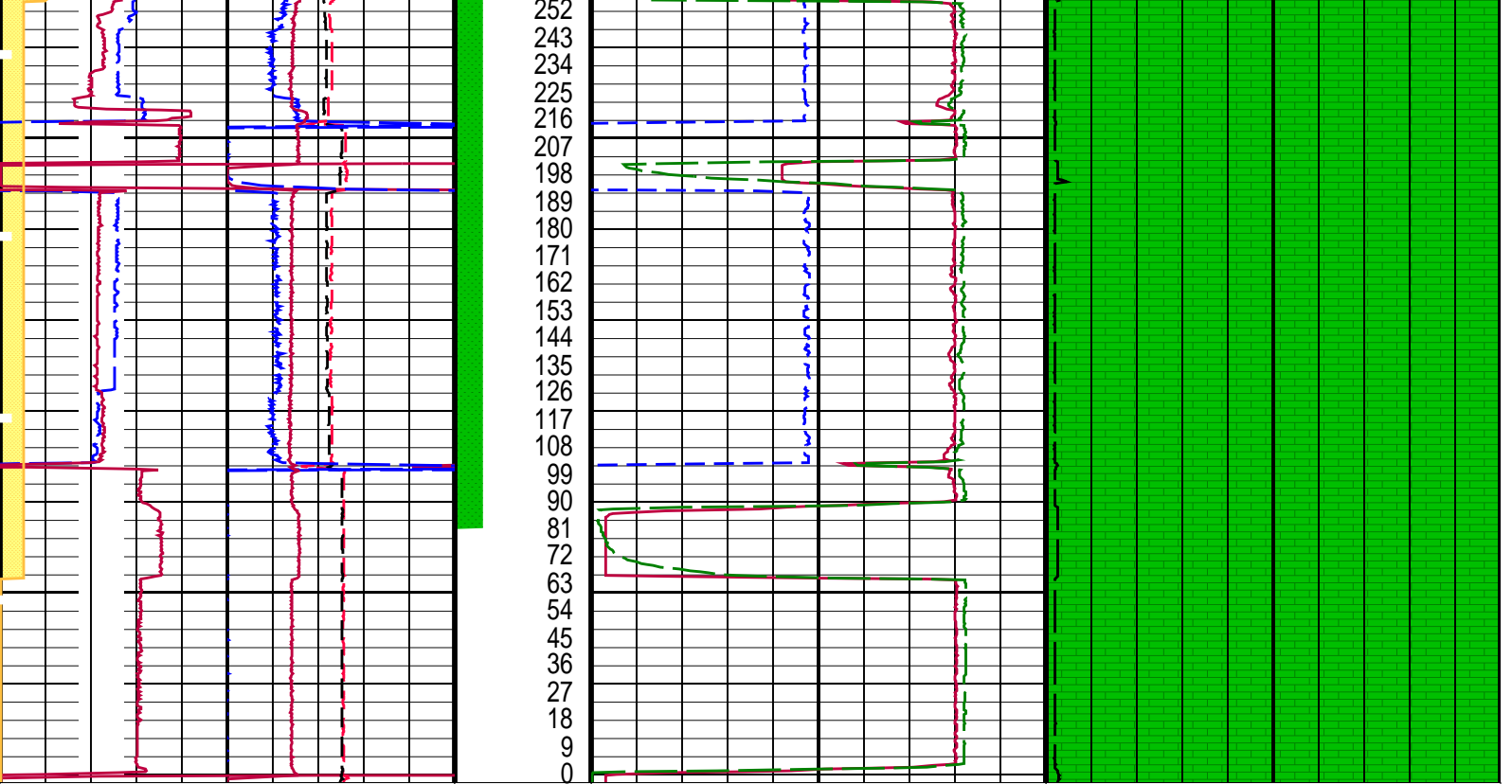
Coring Started

Coring Stopped

Coring Started







<b>Head Voltage (HV)</b> (V) 0 200		<b>Elapsed Time (ETIM)</b> (S)	<b>Coring Motor Pressure (CMPR)</b> (PSIG) 150 650		<b>Kinematics Piston Position (CMPP)</b> (IN) 0 2.5	
(SSTA) 0 10	<b>Cartridge Current (CARC)</b> (MA) 0 500		<b>Limit Switch From D3T to MSCT_LSWI</b>	<b>Hydraulic Pump Pressure (HPPR)</b> (PSIG) 0 5000		<b>Coring Motor Linear Position (CMLP)</b> (IN) 0 2.5
<b>Motor Voltage Window From MSCT_LMVL to MSCT_UMVL</b>		<b>Kinematics Pressure (RPPV)</b> (PSIG) 0 5000				
<b>Coring Motor Downhole Voltage (CMDV)</b> (V) 500 1000						
<b>Hydraulic Motor Downhole Voltage (HMDV)</b> (V) 500 1000						
		<b>Coring Motor Current (CMCU)</b> (AMPS) 2.5 5				
		<b>Hydraulic Motor Current (HMCU)</b> (AMPS) 0 2				

PIP SUMMARY

Time Mark Every 60 S

Parameters		
DLIS Name	Description	Value
SOFF	MSCT-AA: Mechanical Sidewall Coring Tool Standoff	0 IN

Format: MSCT\_PROPRIETARY\_ALL\_Station Vertical Scale: 1" per 60S Graphics File Created: 19-Apr-2009 08:18

OP System Version: 17C0-154

### Output DLIS Files

DEFAULT MSCT\_074LTP FN:92 PRODUCER 19-Apr-2009 08:17

Company: Battelle Pacific Northwest Lab Well: Wallula Basalt Pilot #1

### Input DLIS Files

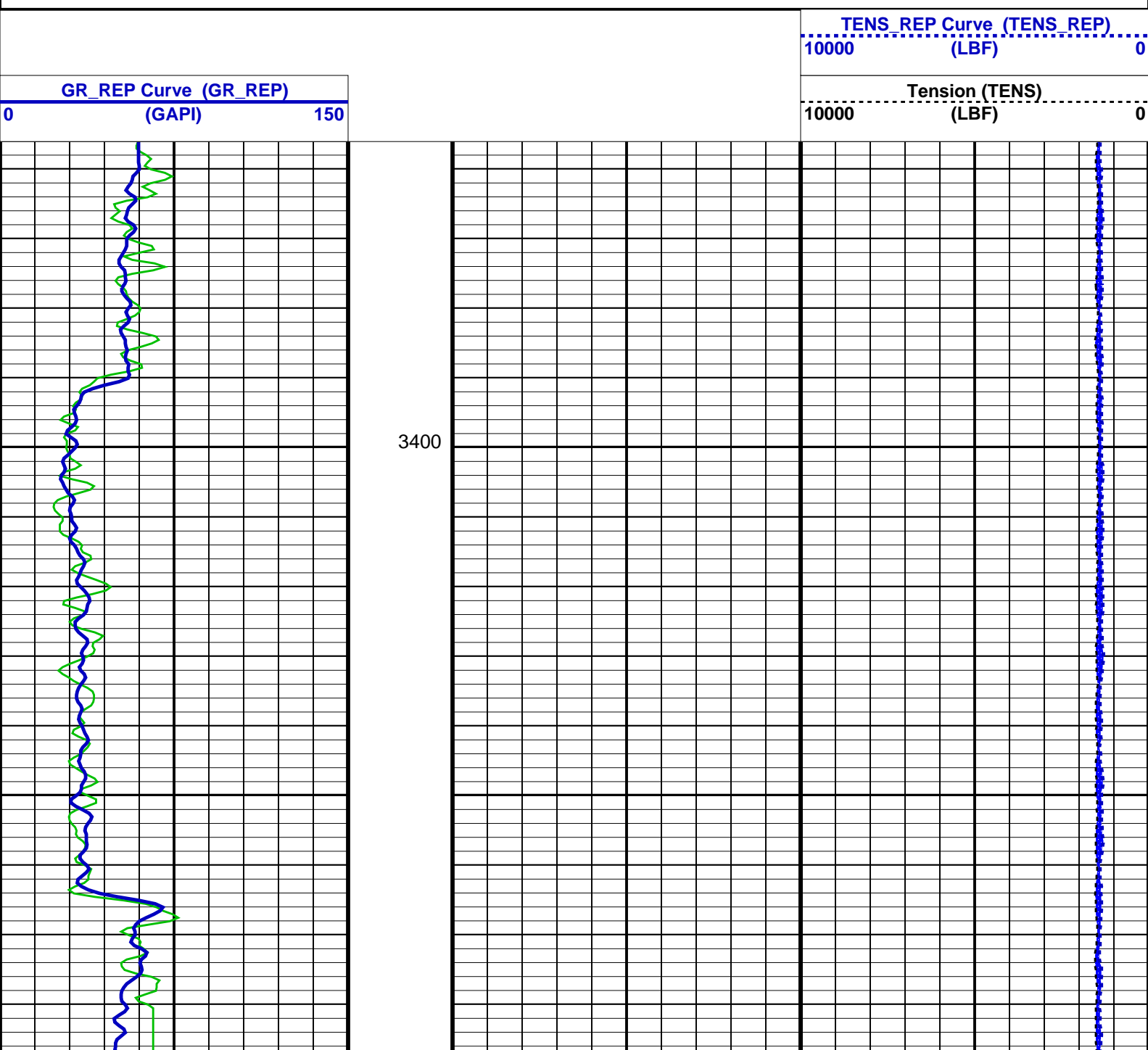
DEFAULT AIT\_TLD\_MCFL\_CNL\_041PUP FN:39 PRODUCER 18-Apr-2009 20:53 4105.0 FT 27.5 FT

### Output DLIS Files

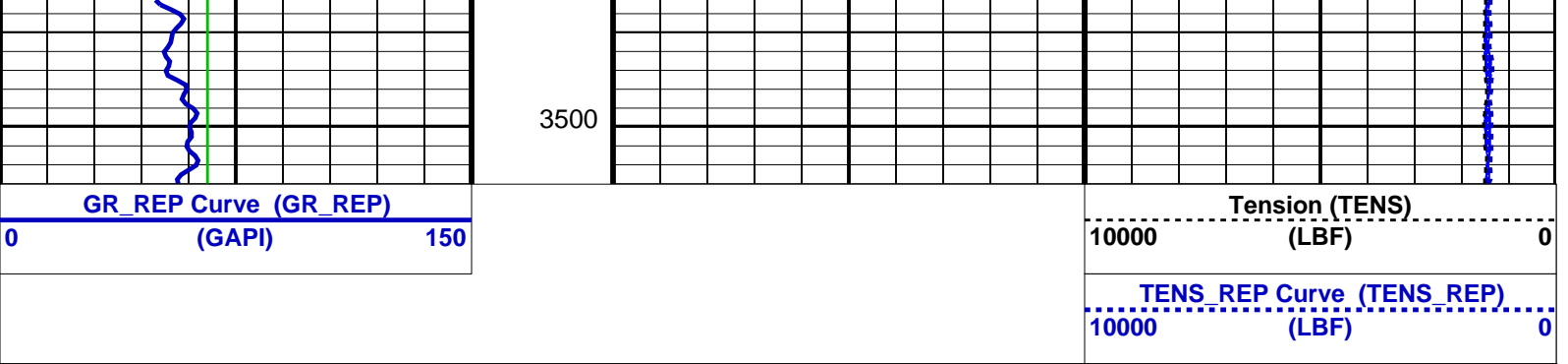
DEFAULT MSCT\_073LUP FN:91 PRODUCER 19-Apr-2009 08:06 3506.0 FT 3356.0 FT

## OP System Version: 17C0-154

MSCT-AA 17C0-154 SGT-E 17C0-154







Parameters		
DLIS Name	Description	Value
DORL	System and Miscellaneous Depth Offset for Repeat Analysis	0.0 FT

Format: CORRELATION\_REP    Vertical Scale: 5" per 100'    Graphics File Created: 19-Apr-2009 08:06

**OP System Version: 17C0-154**

MSCT-AA	17C0-154	SGT-E	17C0-154
---------	----------	-------	----------

Input DLIS Files						
DEFAULT	AIT_TLD_MCFL_CNL_041PUP	FN:39	PRODUCER	18-Apr-2009 20:53	4105.0 FT	27.5 FT

Output DLIS Files			
DEFAULT	MSCT_073LUP	FN:91	PRODUCER 19-Apr-2009 08:06

<b>Company:</b>	<b>Battelle Pacific Northwest Lab</b>	<b>Schlumberger</b>
<b>Well:</b>	<b>Wallula Basalt Pilot #1</b>	
<b>Field:</b>	<b>Wildcat</b>	
<b>County:</b>	<b>Walla Walla</b>	
<b>State:</b>	<b>Washington</b>	
MECHANICAL SIDEWALL CORING TOOL GAMMA RAY		