

BAKER HUGHES



SEGMENTED BOND TOOL
GAMMA RAY LOG
BHC ACOUSTILOG 841

Baker Atlas

FILE NO: COMPANY GUNNISON ENERGY CORPORATION
WELL OAK MESA UNIT HUGHES 1393 #12-22
FIELD WILD CAT
COUNTY DELTA STATE COLORADO

Ver. 3.87 LOCATION: SHEL: 2513' P.M. & 2078' P.M.
TIGHT HOLE SEC 12 TWP 13S RGE 92W OTHER SERVICES NONE

PERMANENT DATUM G.L. ELEVATION 9105 FT
LOG MEASURED FROM K.B. 19 FT ABOVE P.D.
DRILL MEAS. FROM KELLY BUSHING ELEVATIONS:
KB 9124 FT
DF 9123 FT
OL 9105 FT

DATE	25-AUG-2010
RUN	3
TRIP	1
SERVICE ORDER	576716
DEPTH DRILLER	4437 FT
DEPTH LOGGER	4417 FT
BOTTOM LOGGED INTERVAL	4410 FT
TOP LOGGED INTERVAL	SURFACE
TIME STARTED	4:00
TIME FINISHED	10:00
OPERATOR RIG TIME	8
TYPE OF FLUID IN HOLE	WATER
FLUID DENSITY	8.4 LB/G
FLUID SALINITY	N/A
FLUID LEVEL	0 FT
LOGGED CEMENT TOP	N/A
WELLHEAD PRESSURE	0 PSI
MAXIMUM HOLE DEVIATION	0 DEG
NOMINAL LOGGING SPEED	30 F/MIN
MAX. RECORDED TEMP.	N/A
REFERENCE LOG	N/A
REFERENCE LOG DATE	N/A
EQUIP. NO.	HL-6741
LOCATION	GRAND JCT
RECORDED BY	AUTOMED
WITNESSED BY	BUCKLES

IN MAKING INTERPRETATIONS OF LOGS OUR EMPLOYEES WILL GIVE CUSTOMER THE BENEFIT OF THEIR BEST JUDGEMENT. BUT SINCE ALL INTERPRETATIONS ARE OPINIONS BASED ON INFERENCES FROM ELECTRICAL OR OTHER MEASUREMENTS, WE CANNOT, AND WE DO NOT GUARANTEE THE ACCURACY OR CORRECTNESS OF ANY INTERPRETATION. WE SHALL NOT BE LIABLE OR RESPONSIBLE FOR ANY LOSS, COST, DAMAGES, OR EXPENSES WHATSOEVER INCURRED OR SUSTAINED BY THE CUSTOMER RESULTING FROM ANY INTERPRETATION MADE BY ANY OF OUR EMPLOYEES.

BOREHOLE RECORD

BIT SIZE	FROM	TO

CASING RECORD

SIZE	WEIGHT	GRADE	FROM	TO
13.375 IN	54.5 LB/F	N/A	0 FT	808 FT
9.625 IN	40 LB/F	NB0	0 FT	3388 FT
7 IN	28 LB/F	N/A	0 FT	4437 FT

CEMENTING DATA

JOB TYPE	FROM	TO	TIME	DATE	CEMENT TYPE	DENSITY	VOLUME	ADDITIVES
INTERMEDIATE	0 FT	3284 FT	01:30	04-AUG-2010	CLASS G	12.3 LB/G	282 BBL	CLASS G

REMARKS

RUN 3 TRIP 1 :
 * CORRELATE WITH BAKER HUGHES LOG 06-AUG-2010
 * NO PRESSURE ON WELL FOR THIS RUN
 * CREW: JUSTIN ROBERTSON/ CODY COATE

EQUIPMENT DATA

RUN	TRIP	TOOL	SERIES NO.	SERIAL NO.	POSITION
1	1	CCL	2346XA	120030	CENTRALIZED
1	1	GR	1338XA	1058142	FREE
1	1	TELEMETRY	1833FA	185404	FREE
1	1	CENTRALIZER	4341FA	10328879	CENTRALIZED
1	1	SBT	1424XA	121870	PAD DEVICE
1	1	VDL	1424FA	10061280	CENTRALIZED
1	1	CENTRALIZER	4341XA	10348881	CENTRALIZED

MAIN LOG 5"/100' 0 PSI

ECLIPS 6.01 Feb 21, 2008
Updates: 1,39,40 Patches: 1,2,4,5,6

Wed Aug 25 07:39:19 2010

Perpfit /main/62

Cplot

Pdf_Cpp /main/16

Fileview 5.42

PARAMETER AND FILTER SUMMARY REPORT

FILE: /dat1a/576716/gunnison/run3/k381a04.prm
LOGGING MODE: DEPTH DIRECTION: UP
TOP DEPTH: 44.250 ft BOTTOM DEPTH: 4415.891 ft

SYMMETRIC FILTER

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (ft)	
GR	FILTER ()	medium (1)		TOP	BOTTOM
SBT	FILTER ()	medium (1)		"	"

SBT PROCESSING

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (ft)	
SBT	CASING OD	7.000	in	TOP	BOTTOM
	CASING WT	26.000	lbm/ft	"	"
	CORR. FACTOR 1	-0.488	db/ft	"	"
	CORR. FACTOR 2	-0.284	db/ft	"	"
	CORR. FACTOR 3	0.714	db/ft	"	"
	CORR. FACTOR 4	-0.098	db/ft	"	"
	CORR. FACTOR 5	0.024	db/ft	"	"
	CORR. FACTOR 6	0.132	db/ft	"	"
	SPACING	0.654	ft	"	"
	SPREADING FACTOR	4.589	db/ft	"	"
	CEMENT STRENGTH	1500	psi	"	"
	HI CUTOFF	8.036	db/ft	"	"
	LOW CUTOFF	2.904	db/ft	"	"

CURVE DESCRIPTION REPORT

CURVE NAME	CURVE ALIAS	CREATION DATE	CURVE DESCRIPTION
F1:ATAV	ATAV	Aug 25 05:00:41 2010	AVERAGE ATTENUATION
F1:ATC1	ATC1	Aug 25 05:00:41 2010	ATTENUATION PAD 1
F1:ATC2	ATC2	Aug 25 05:00:41 2010	ATTENUATION PAD 2
F1:ATC3	ATC3	Aug 25 05:00:41 2010	ATTENUATION PAD 3
F1:ATC4	ATC4	Aug 25 05:00:41 2010	ATTENUATION PAD 4
F1:ATC5	ATC5	Aug 25 05:00:41 2010	ATTENUATION PAD 5
F1:ATC6	ATC6	Aug 25 05:00:41 2010	ATTENUATION PAD 6
F1:ATMIN	ATMIN	Aug 25 05:00:41 2010	ATTENUATION MINIMUM
F1:CEMC	UNORIENTED	Aug 25 05:00:41 2010	CALIBRATED CEMENT MAP
F1:DTMIN	DTMIN	Aug 25 05:00:41 2010	MINIMAL DELTA-T
F1:DTMX	DTMX	Aug 25 05:00:41 2010	MAXIMAL DELTA-T
F1:CP	CP	Aug 25 05:00:41 2010	CAMMA RAY

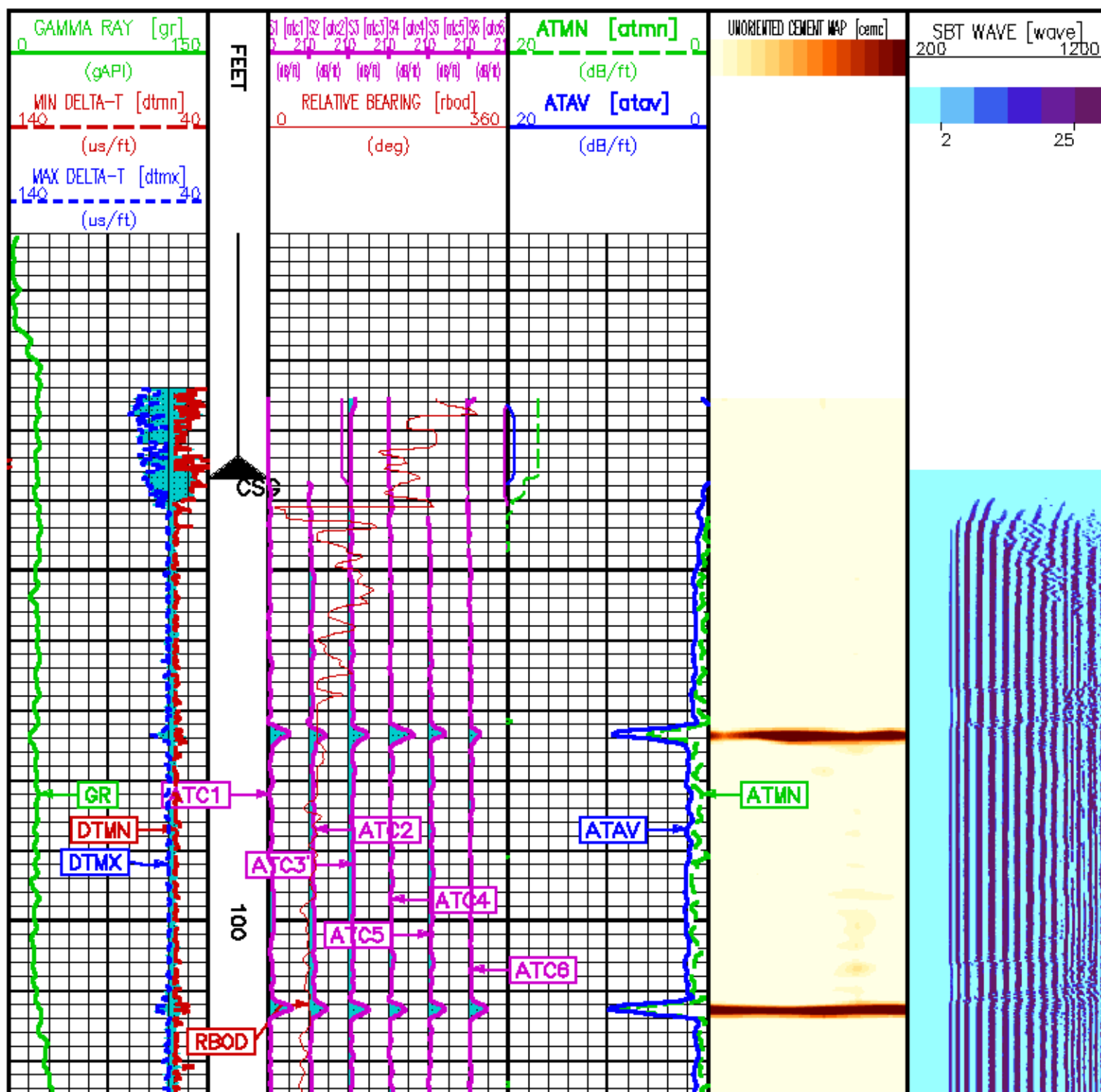
F1:RBOD RBOD Aug 25 05:00:41 2010 250 BYTES DIGITIZED WAVEFORM
 F1:WAVE WAVE Aug 25 05:00:41 2010 250 BYTES DIGITIZED WAVEFORM

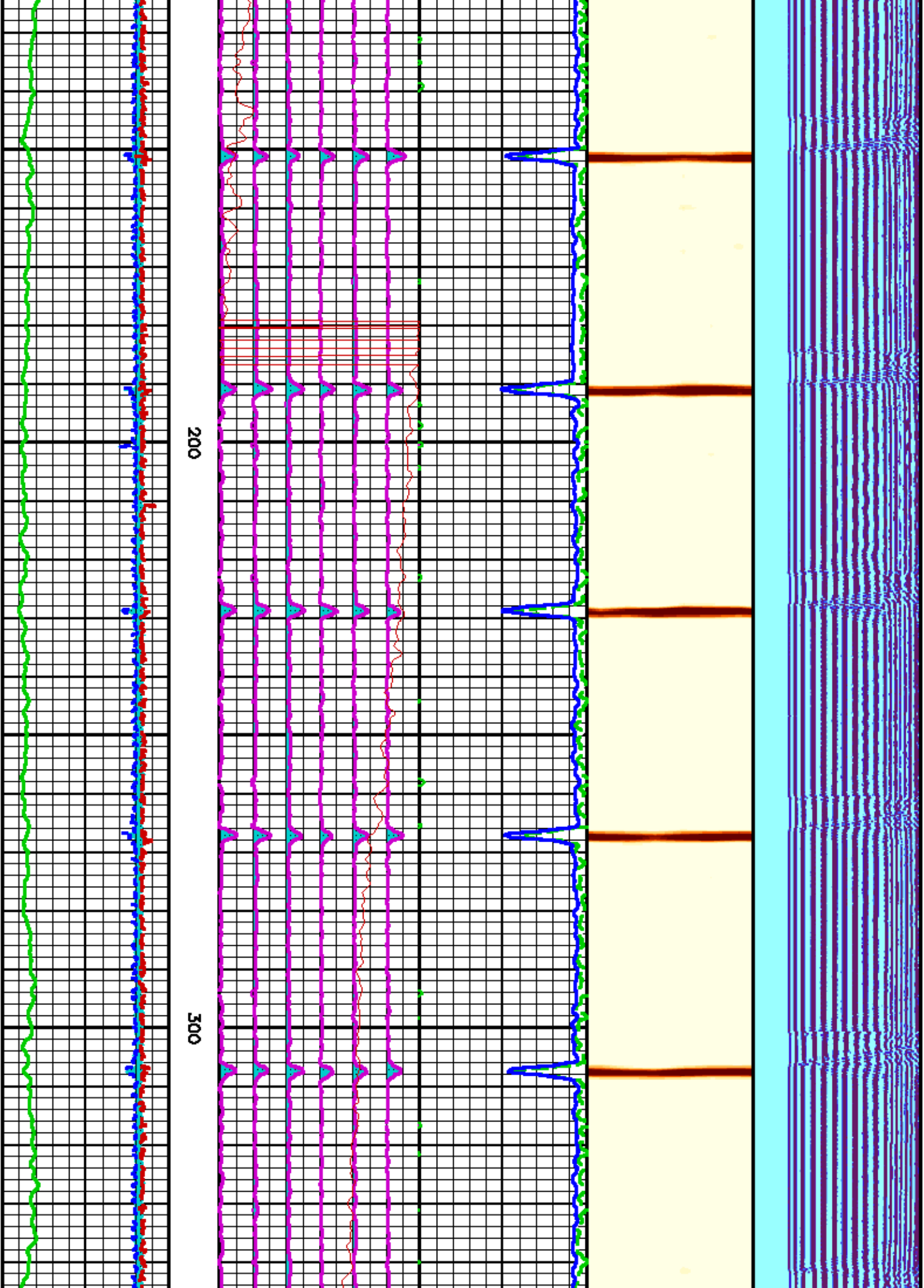
CURVE MEASURE POINT OFFSET

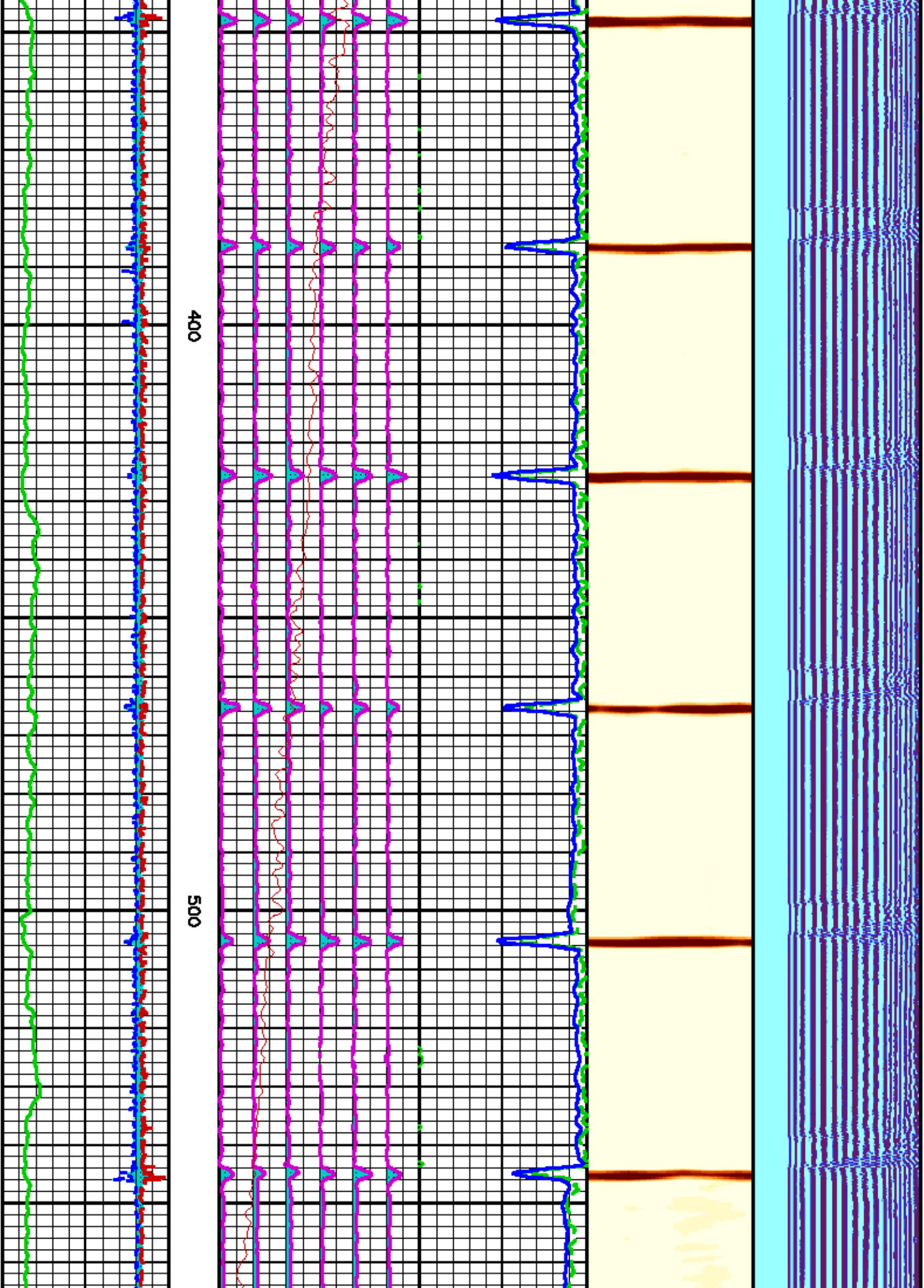
CURVE	OFFSET (ft)	CURVE	OFFSET (ft)	CURVE	OFFSET (ft)	CURVE	OFFSET (ft)
ATAV	19.75	ATC3	19.75	ATC6	19.75	DTMX	19.75
ATC1	19.75	ATC4	19.75	ATMN	19.75	GR	42.75
ATC2	19.75	ATC5	19.75	DTMN	19.75	RBOD	19.75

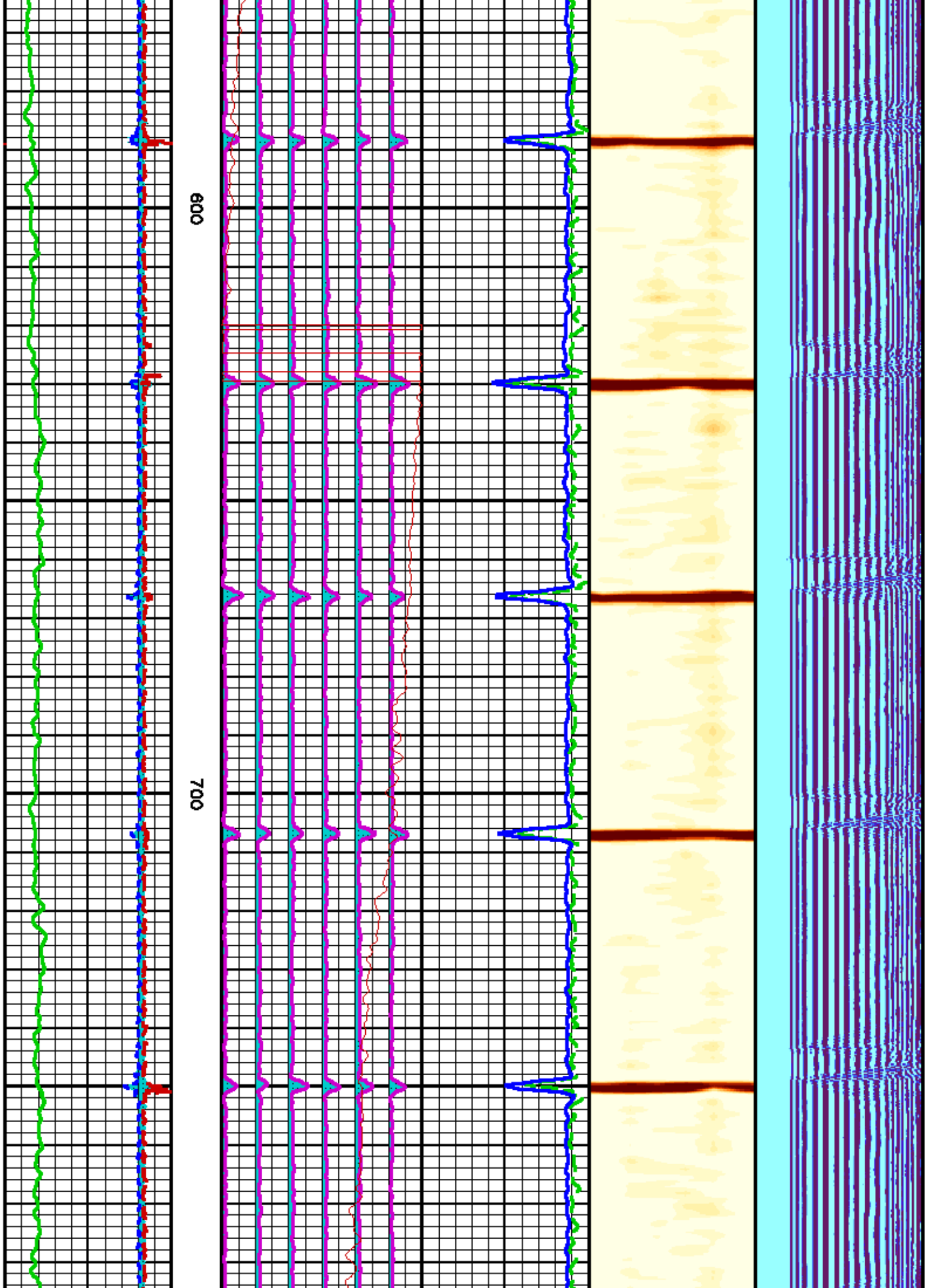
Presentation : mfg1:/data/576716/gunneon/run3/MAIN_NO_PRESS.pdf [5"/100" Scale]
 Plot Interval : -8 - 4413.75 Feet

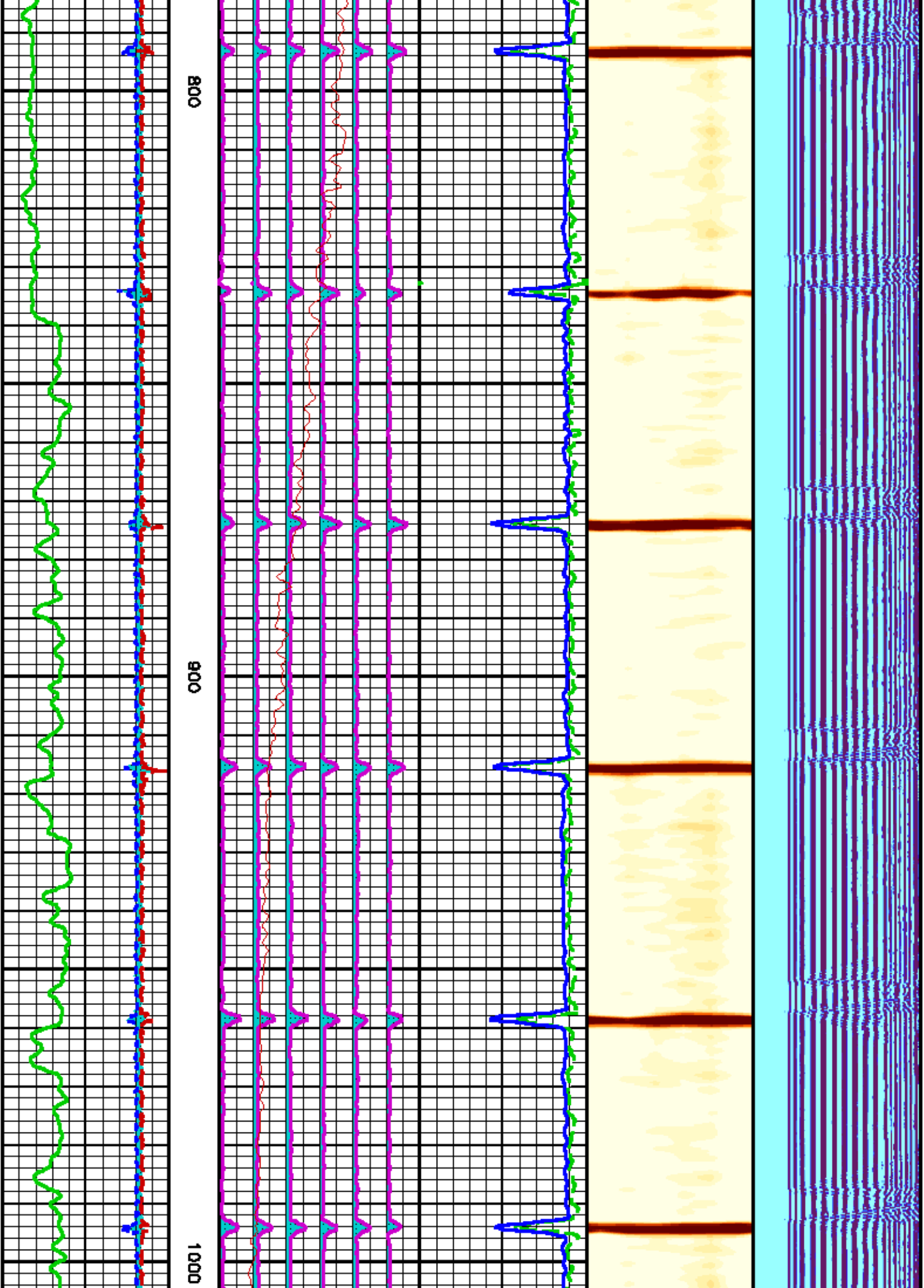
Data File 1 : F1 : mfg1:/data/576716/gunneon/run3/main.txt
 Created On : Aug 25 05:00:41 2010
 Company : GUNNEON ENERGY CORP
 Well : OAK MESA HUGHES 1383 # 12-22
 Field : WILDCAT
 File Interval : -8 - 4415 Feet
 Oct : k381a

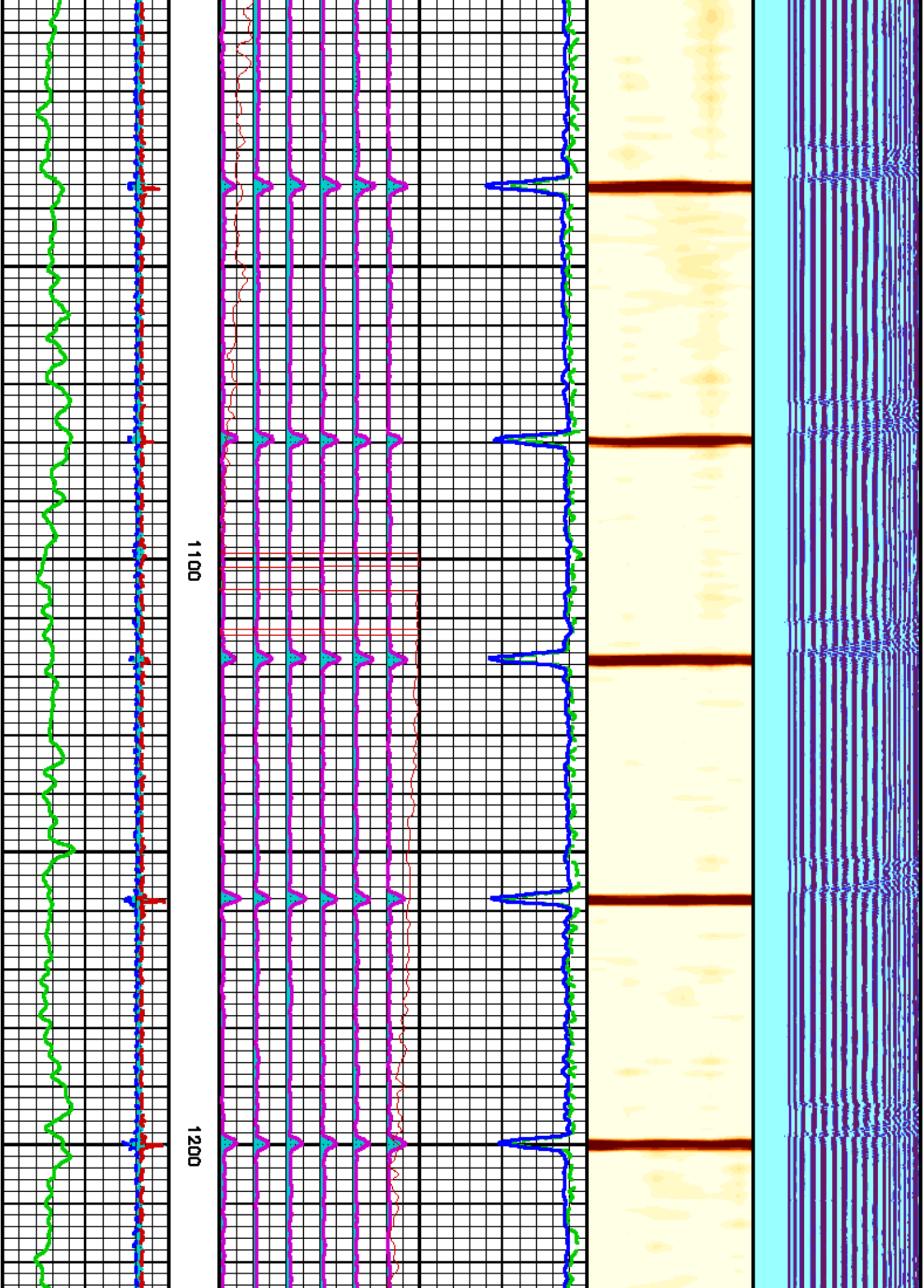


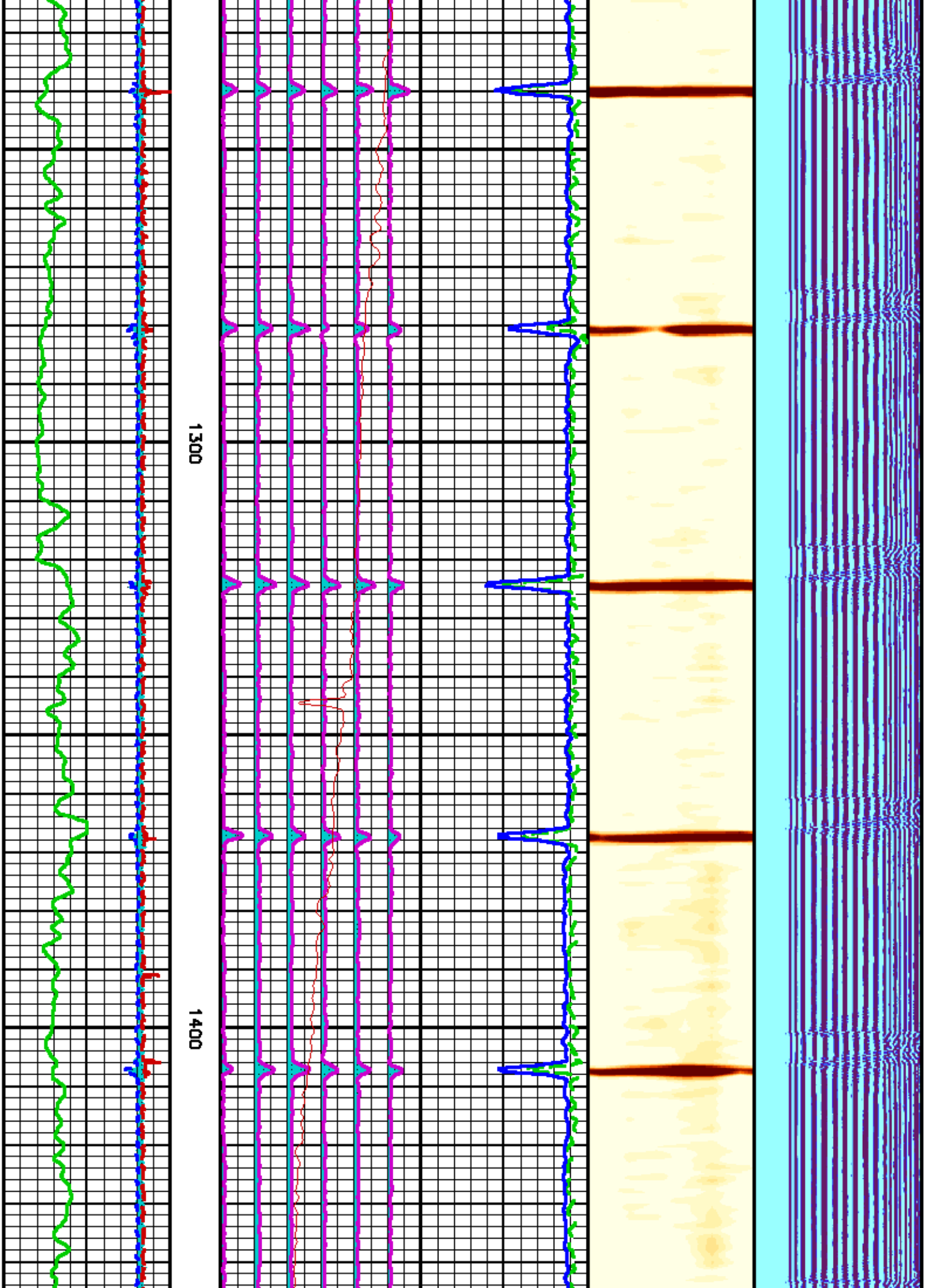


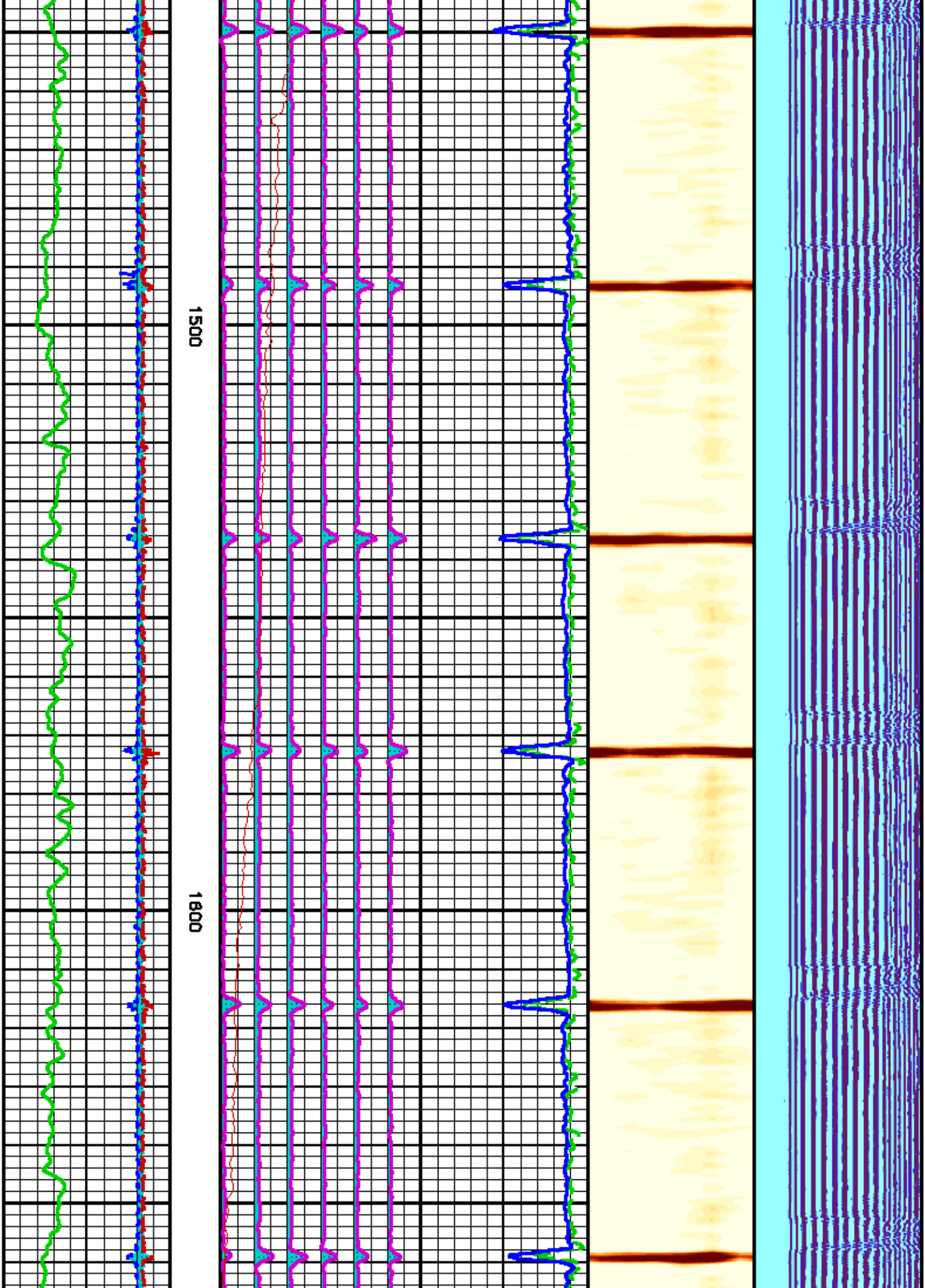


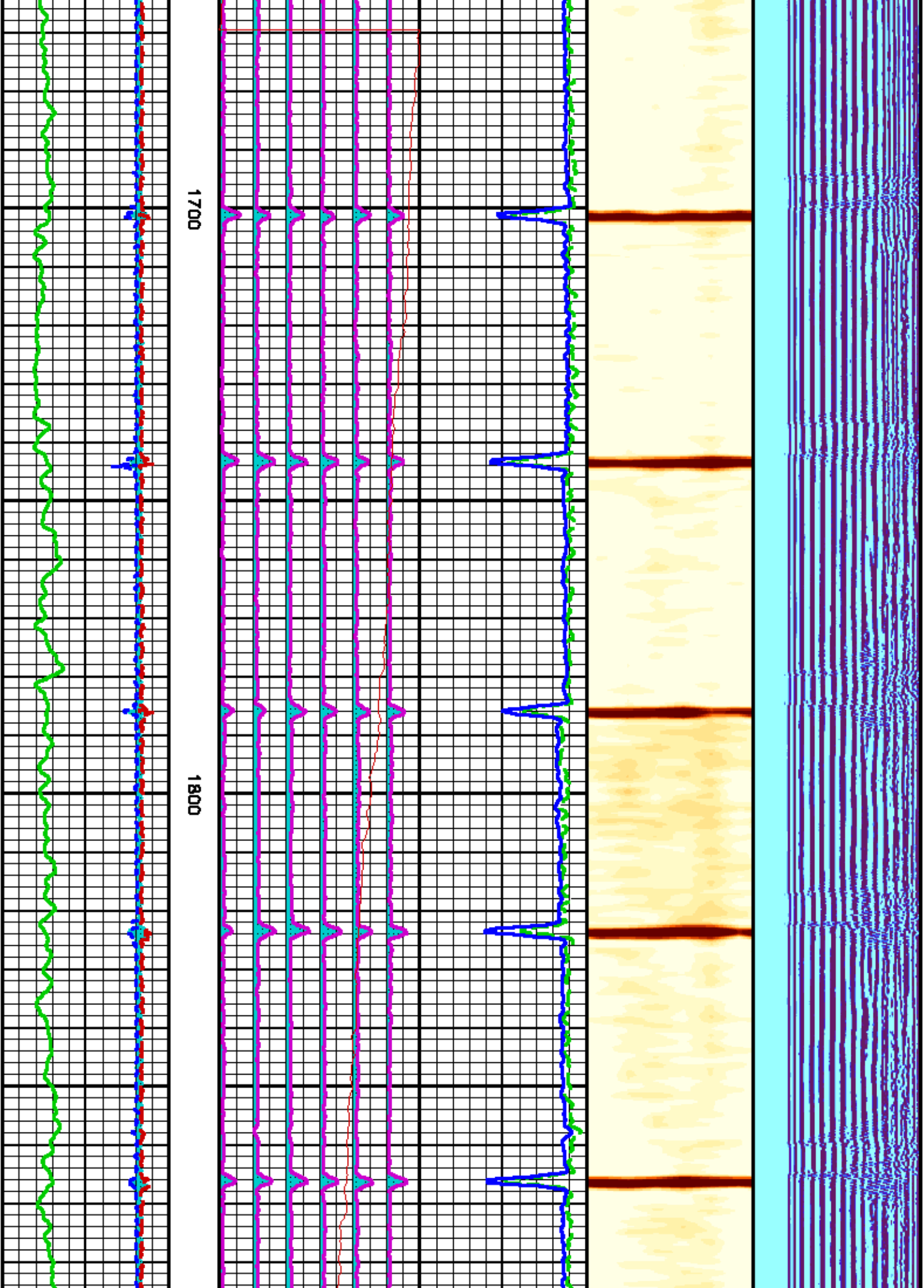


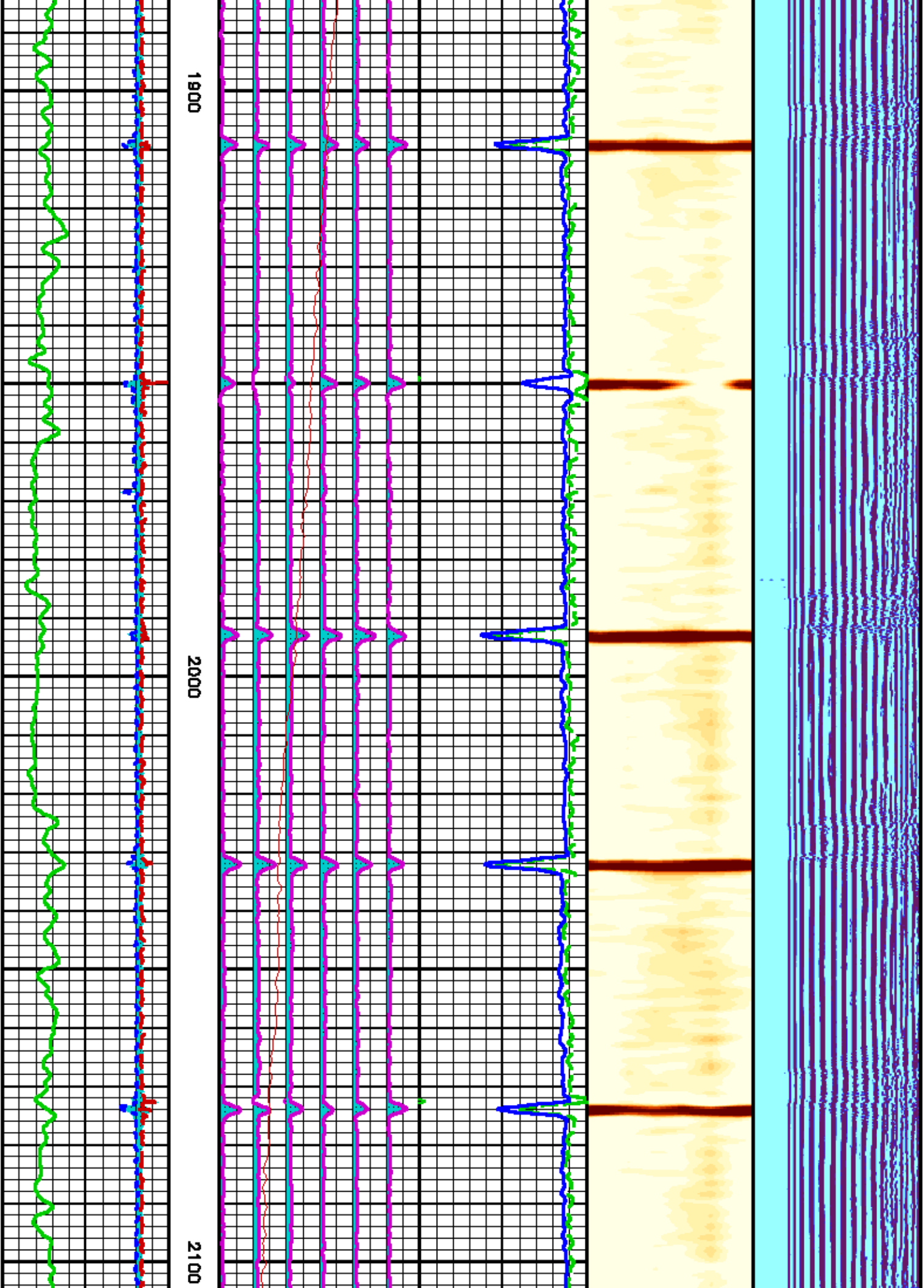


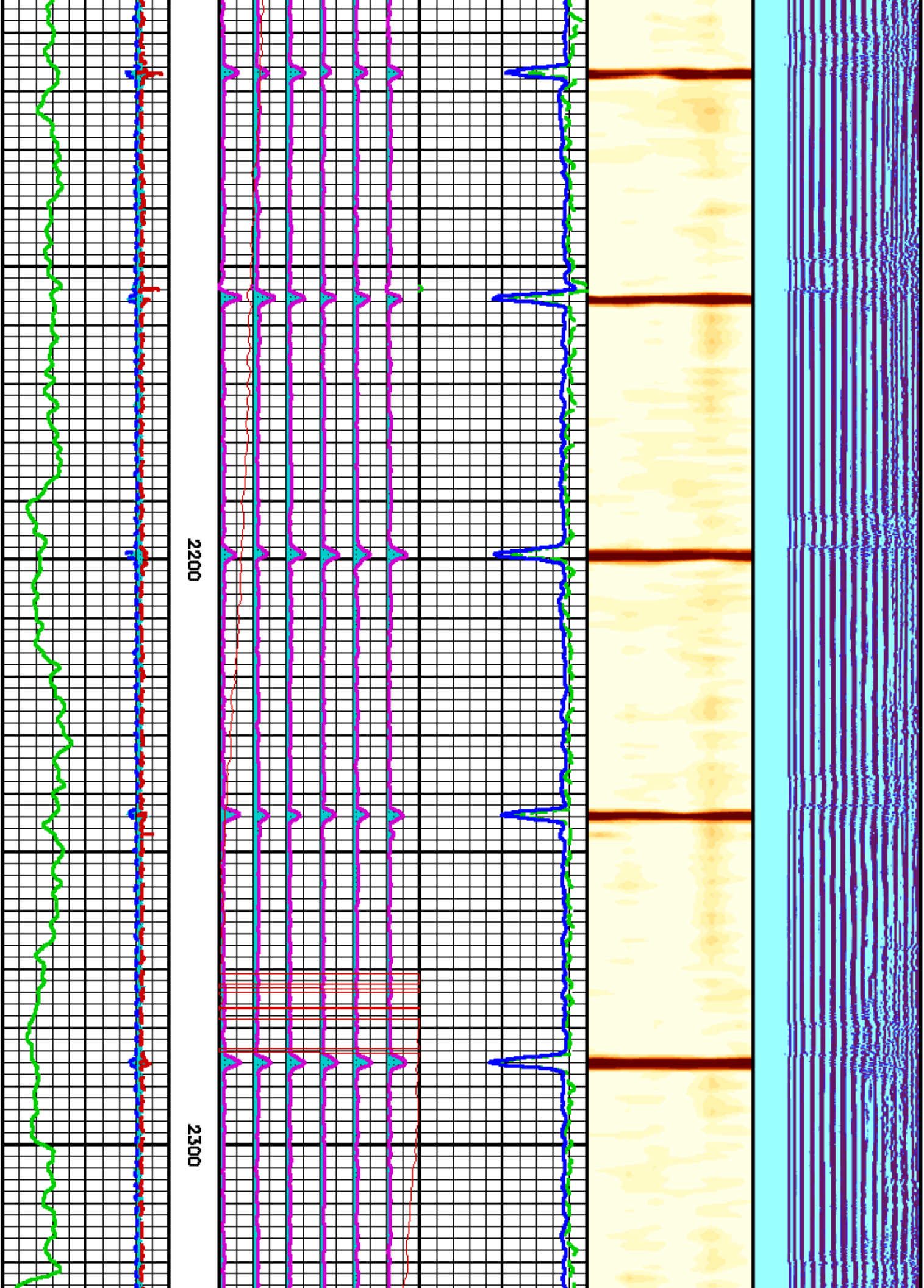


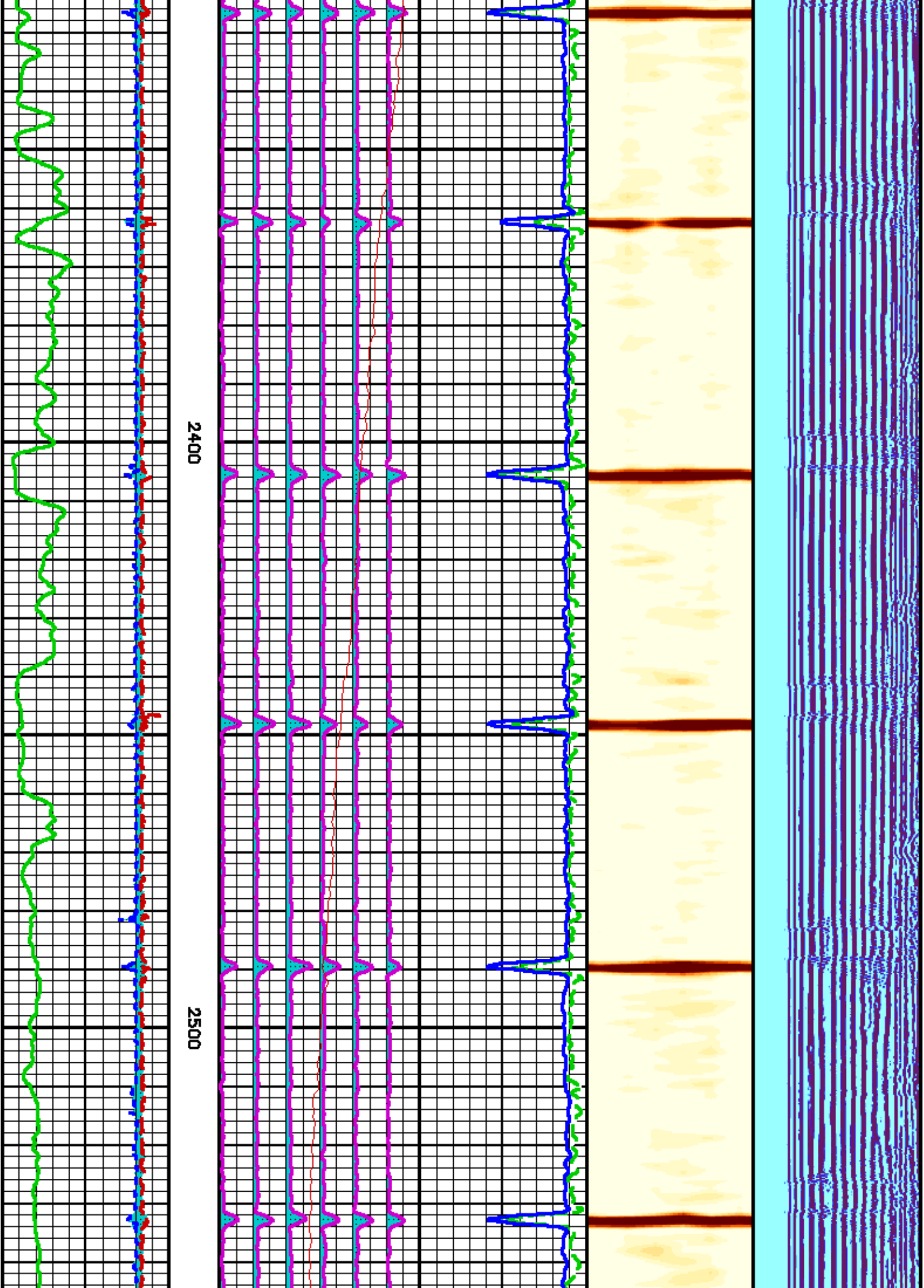


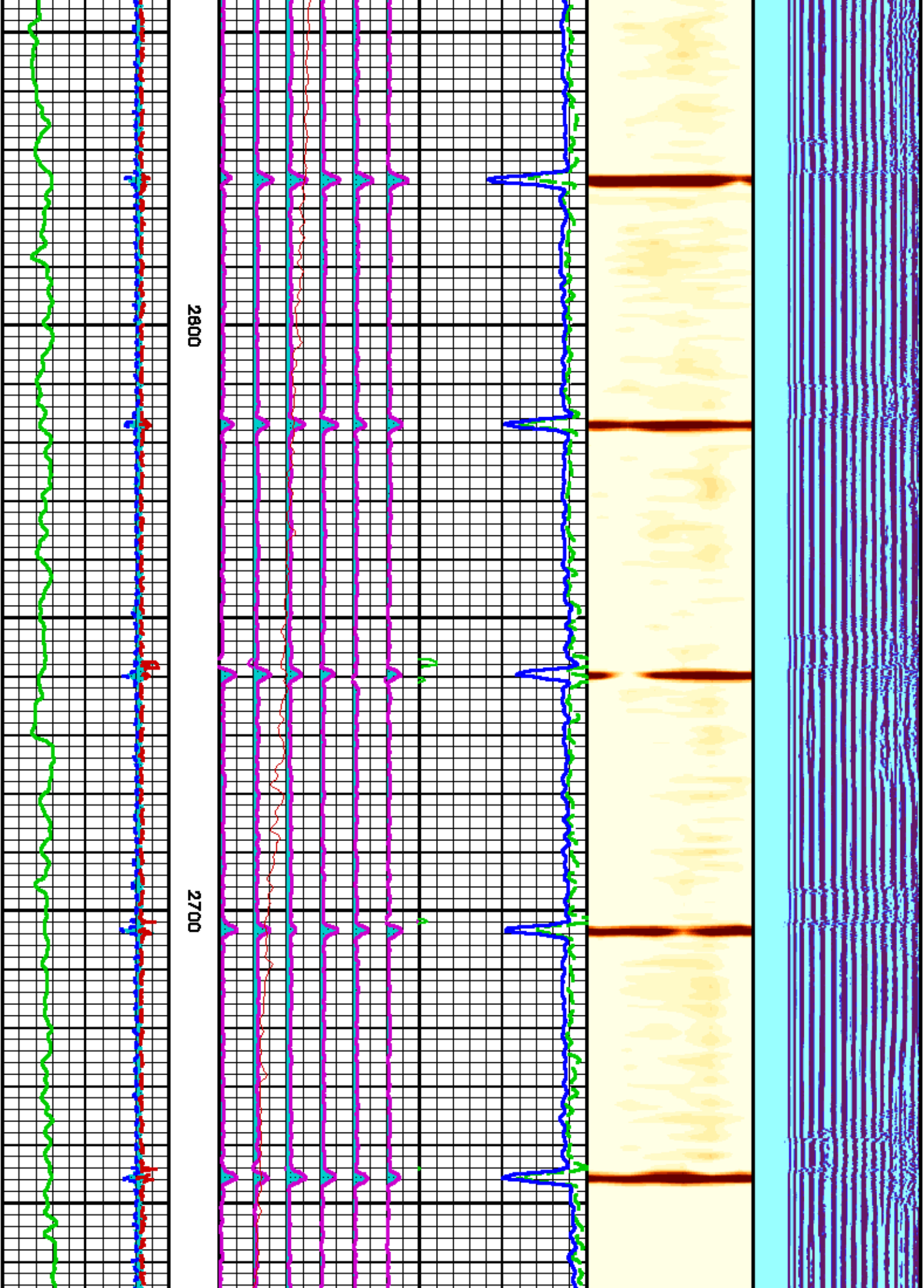


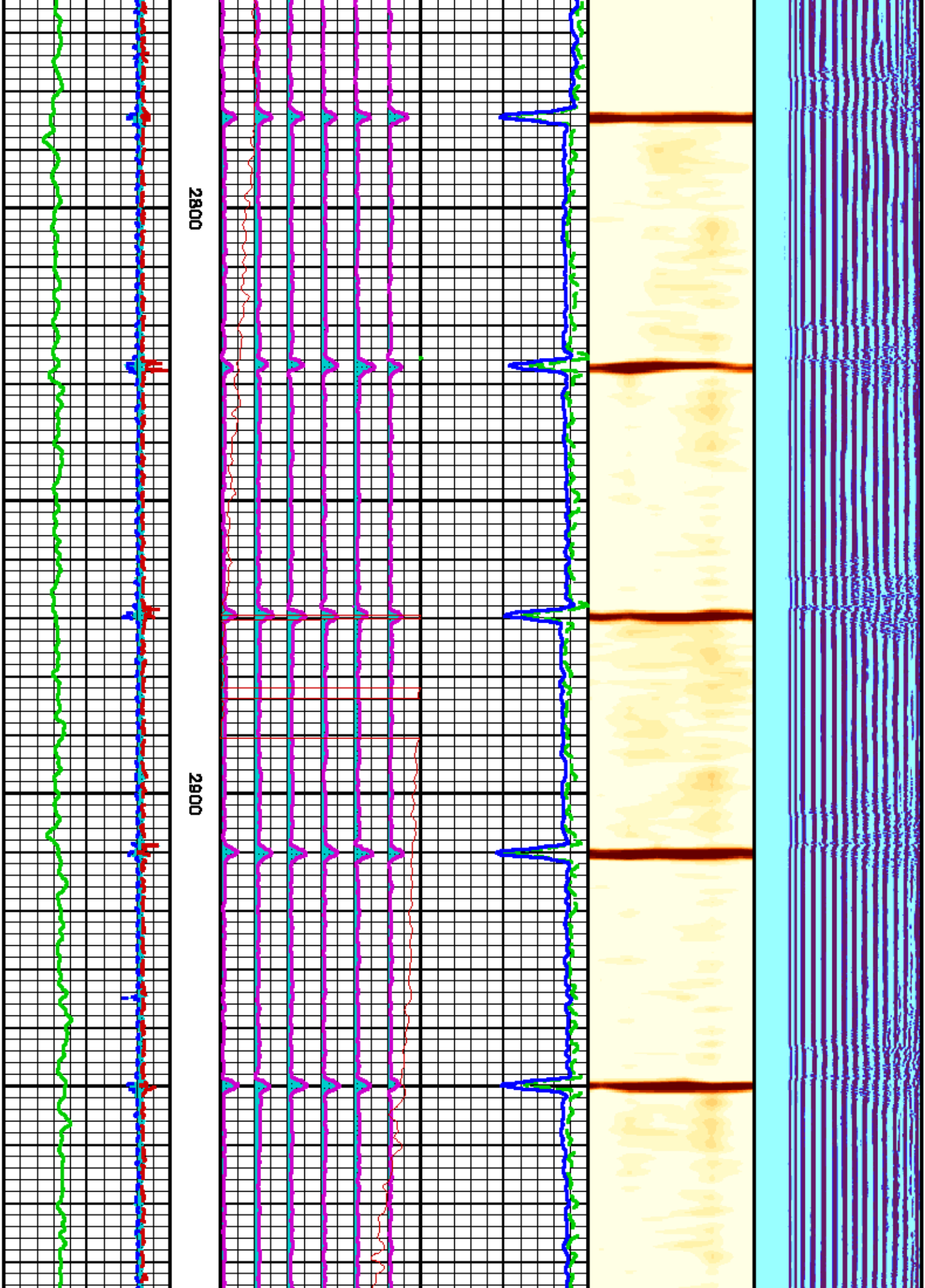


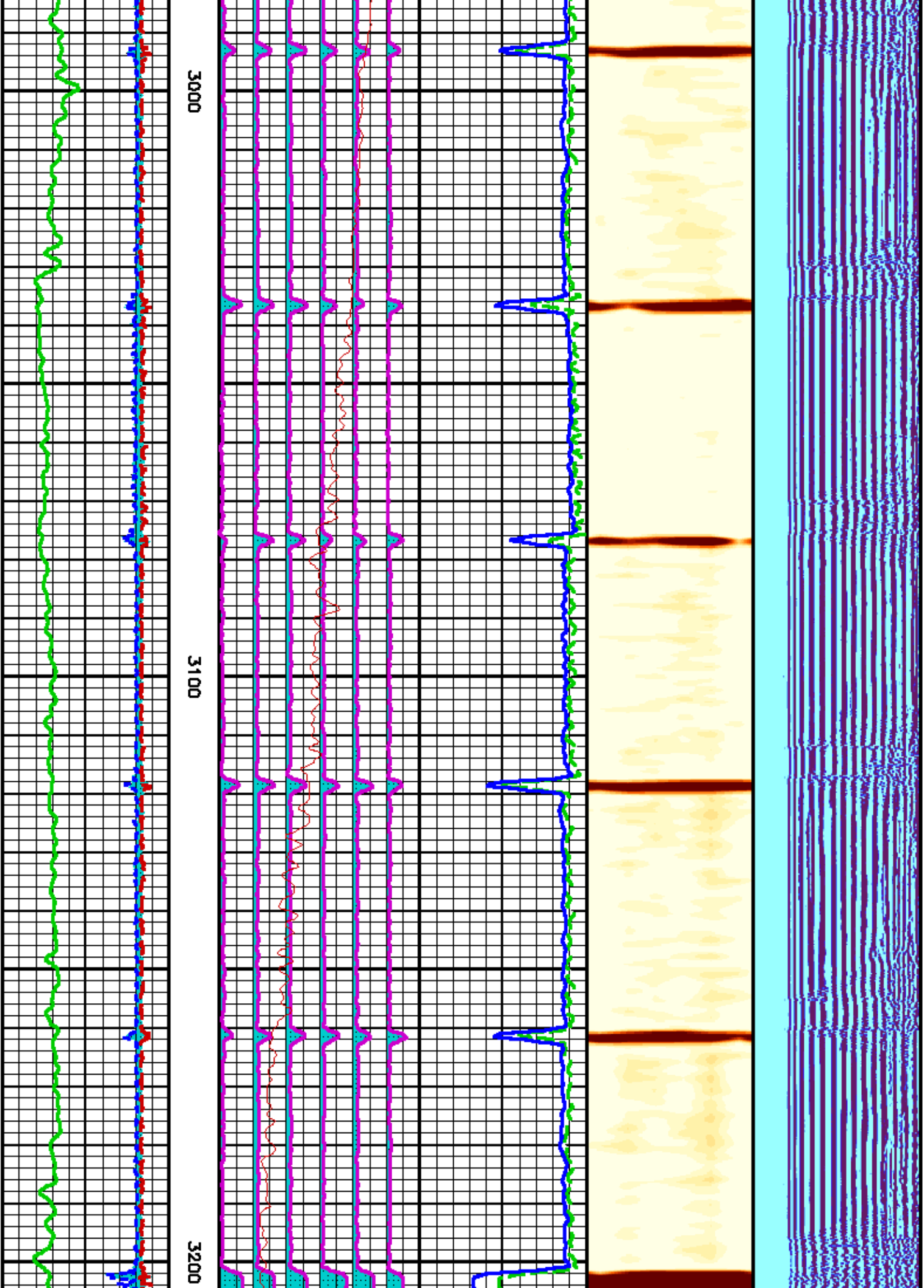


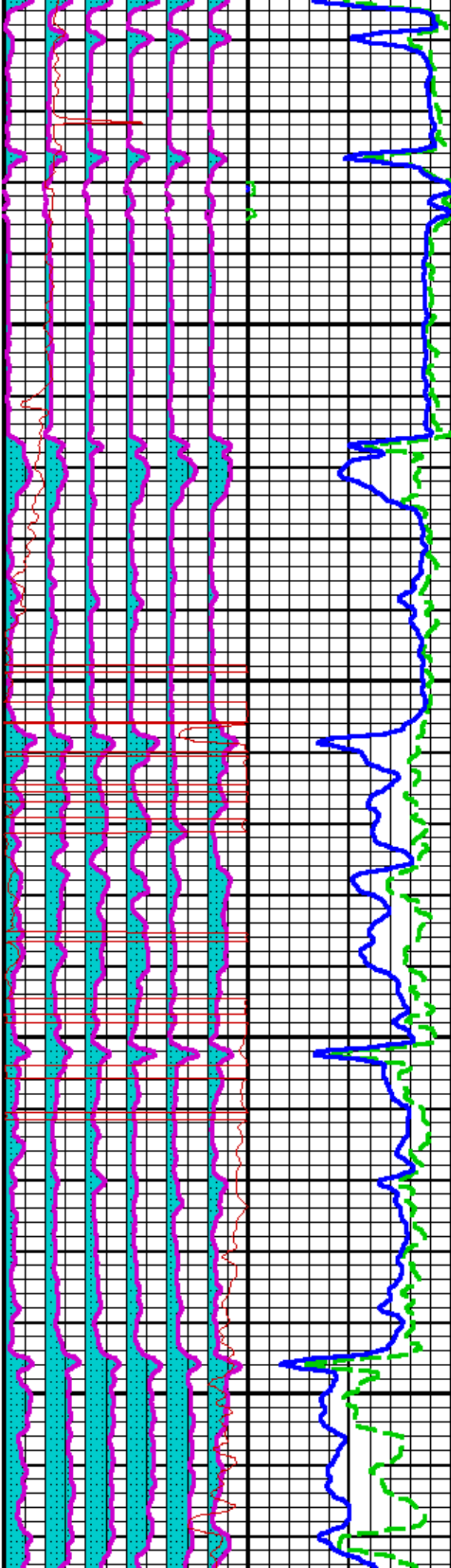
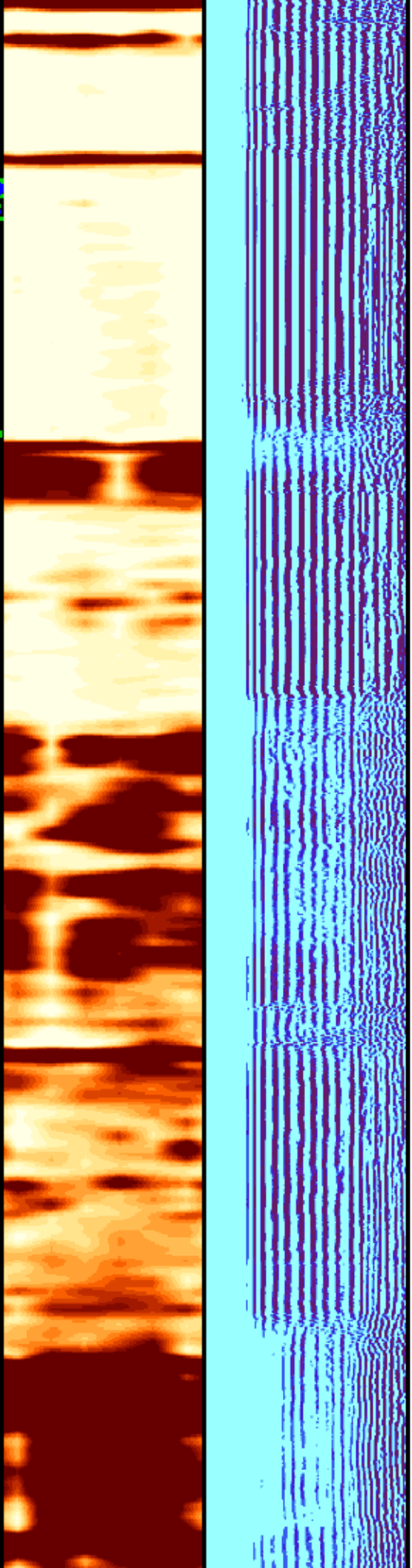






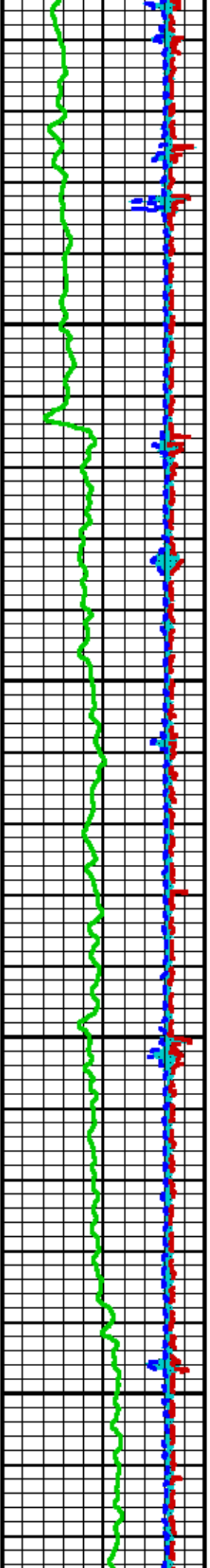


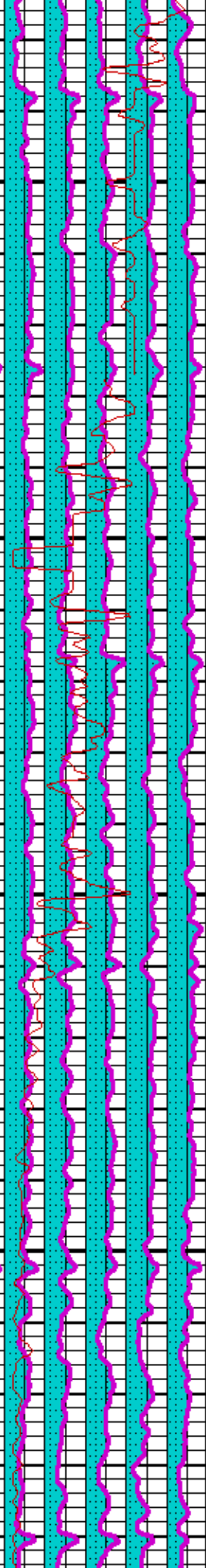
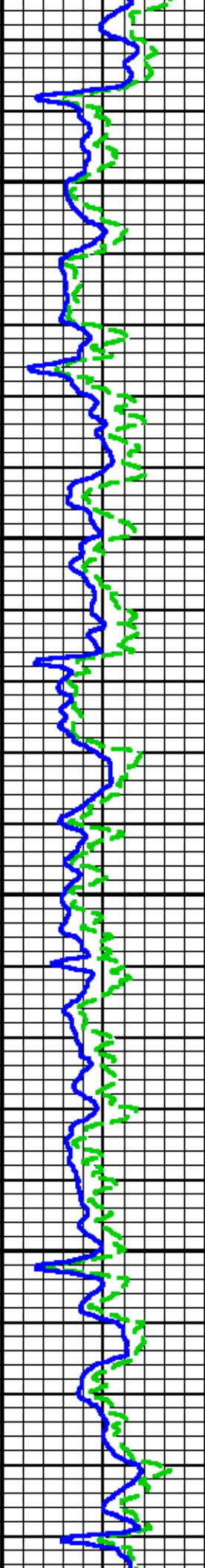
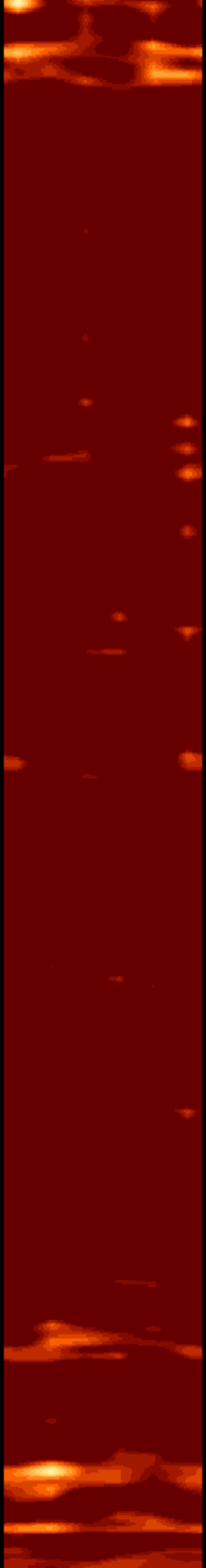
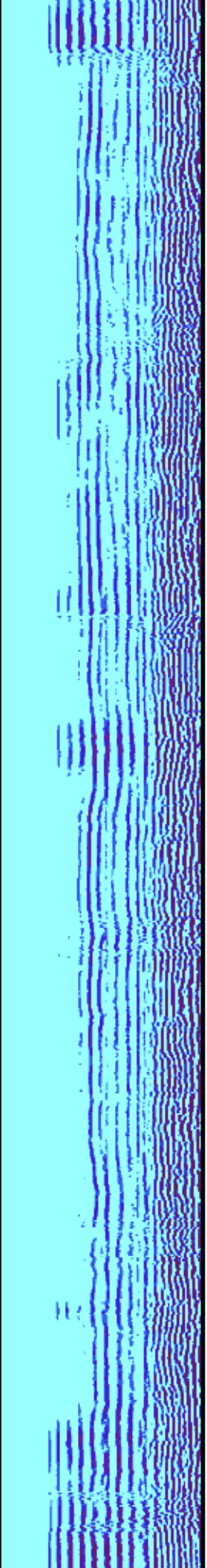




3300

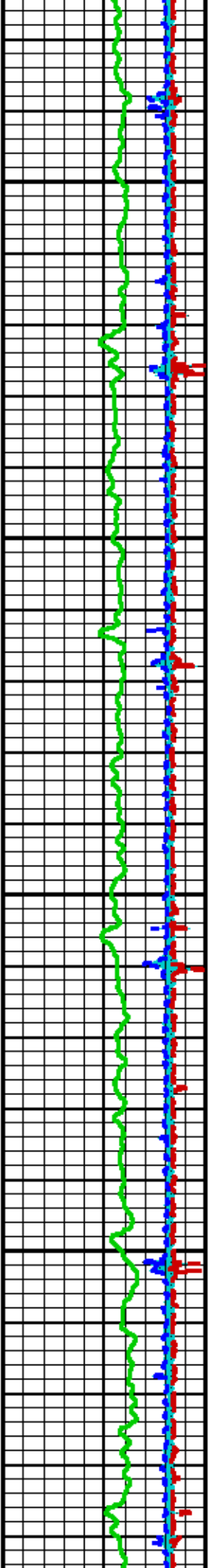
3400

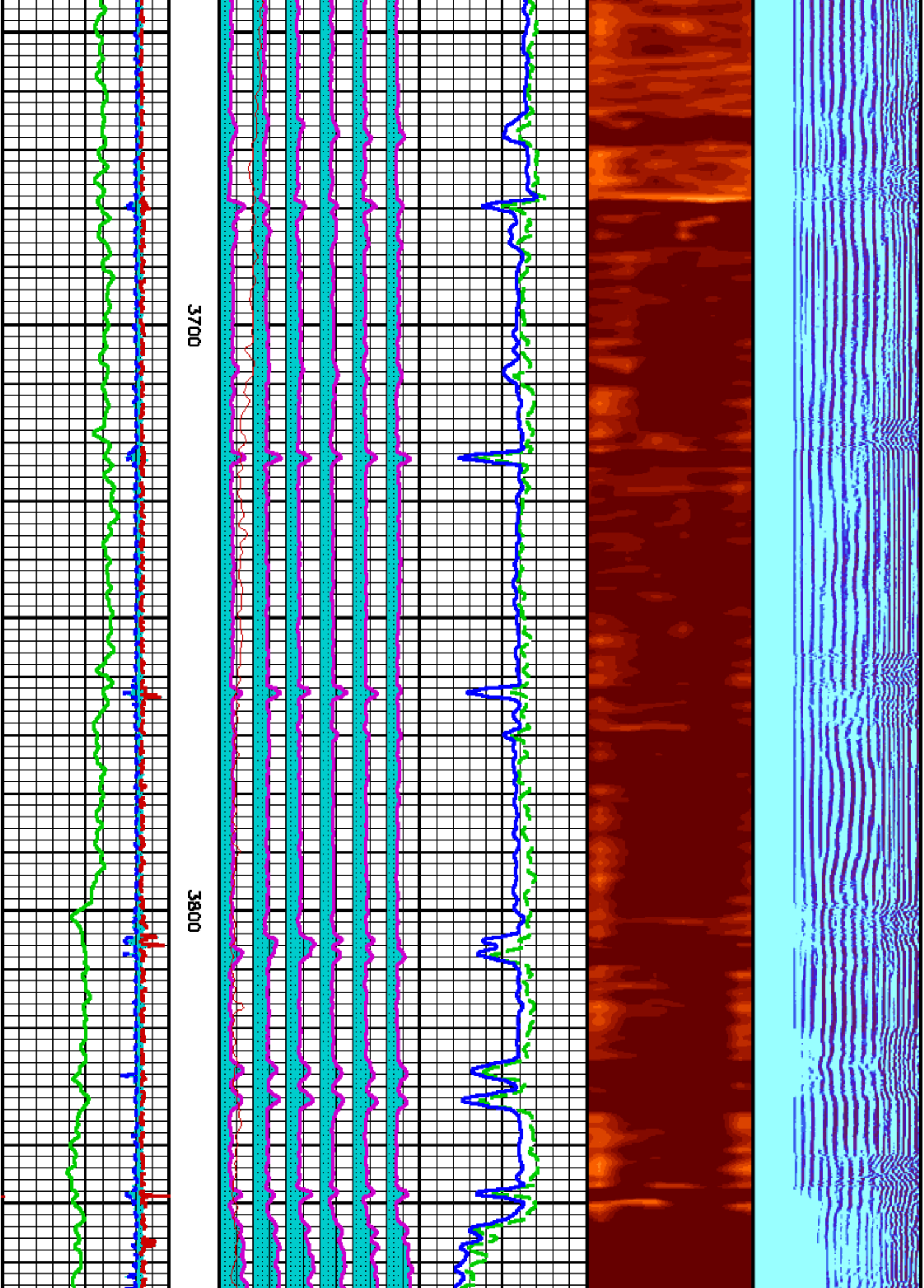


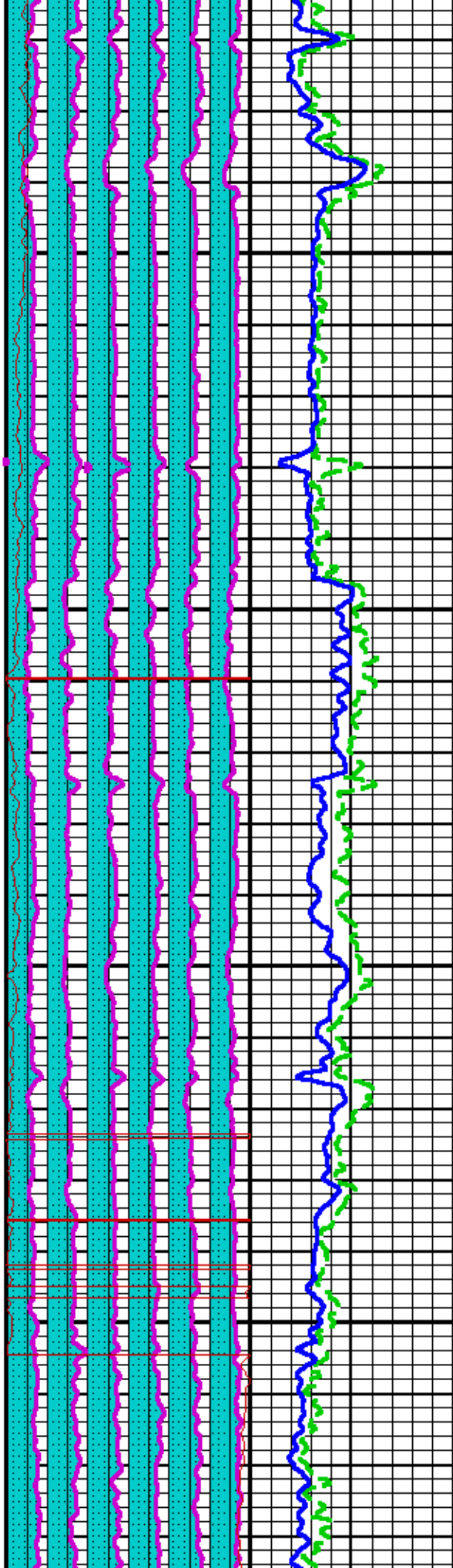
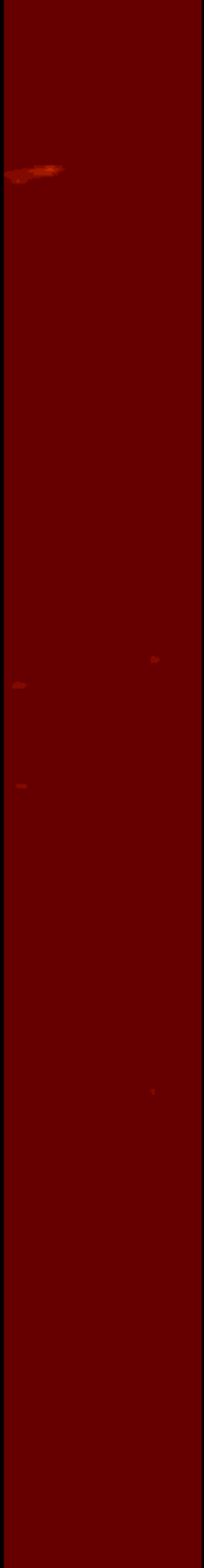
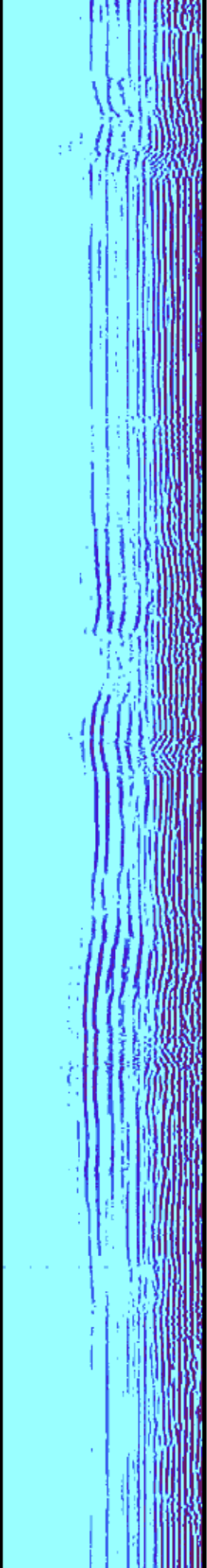


3500

3800

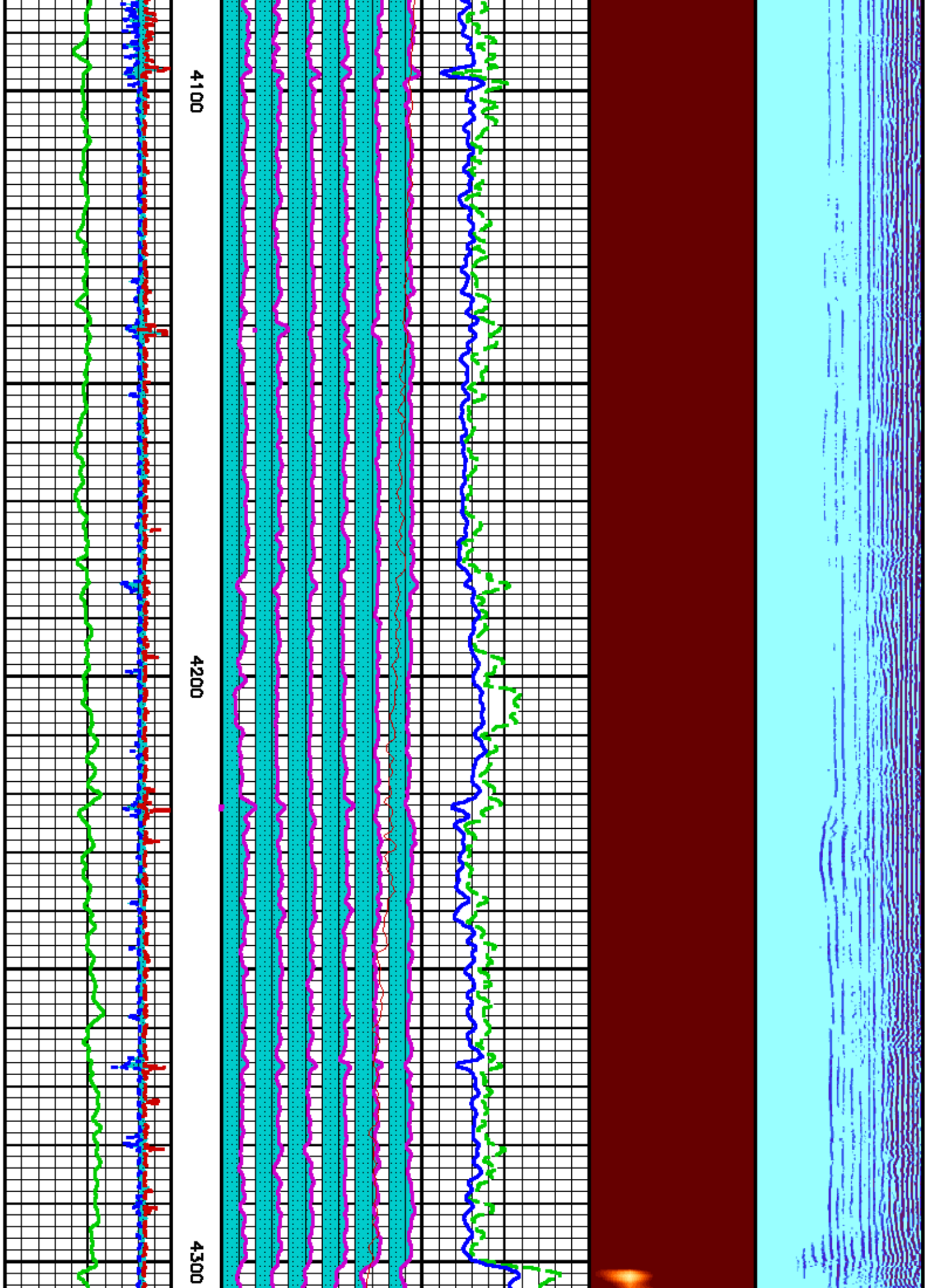


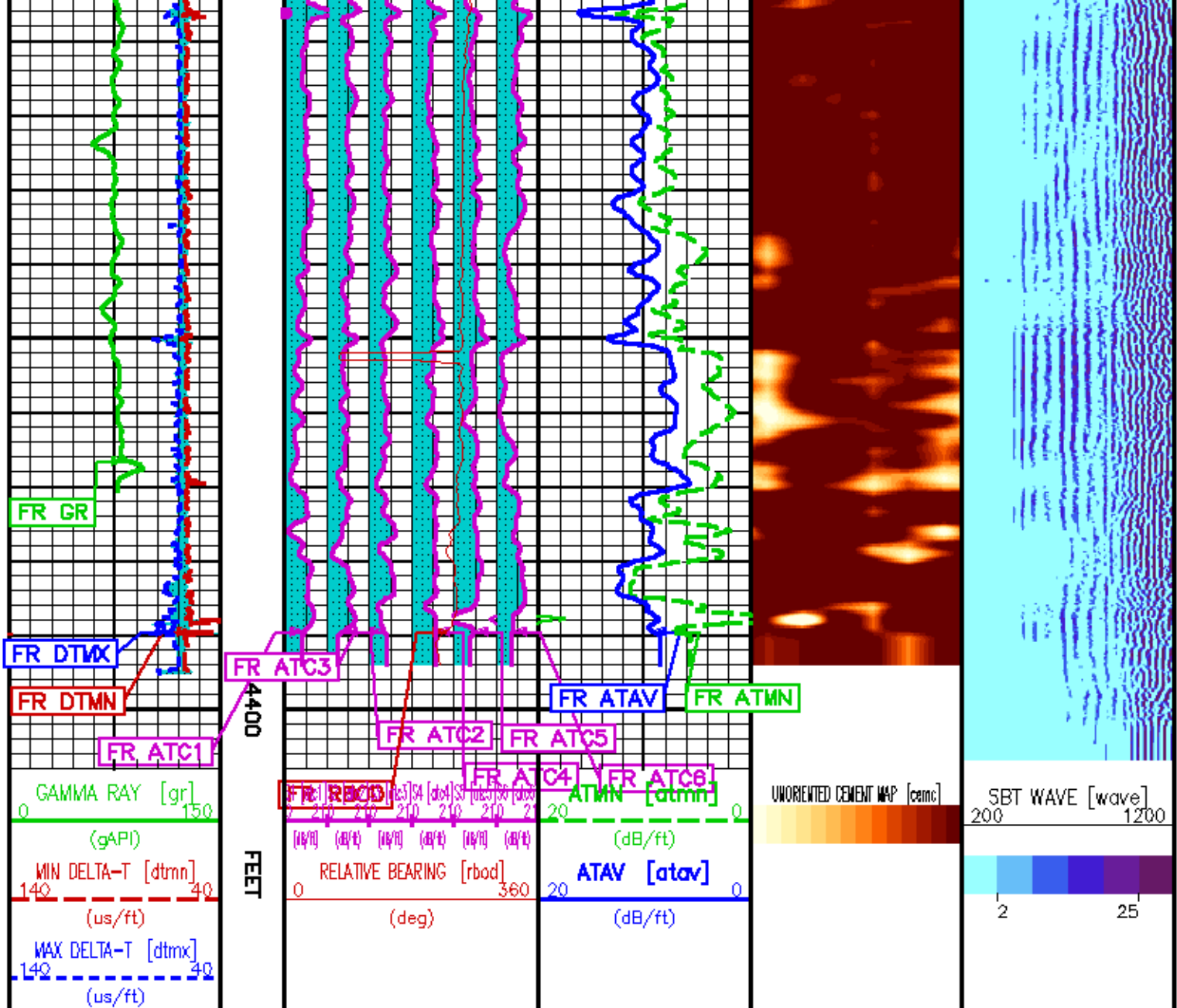




3900

4000





NORMALIZATION PASS 5"/100' 0 PSI

ECLIPS 6.01 Feb 21, 2008
Updates: 1,39,40 Patches: 1,2,4,5,6

Wed Aug 25 07:43:24 2010

Perpllt /main/62

Cplot

Pdf_Cpp /main/16

Fileview 5.42

PARAMETER AND FILTER SUMMARY REPORT

FILE: /dat1a/576716/gunn/son/run3/k381a01.prm
LOGGING MODE: DEPTH DIRECTION: UP
TOP DEPTH: 1144.000 ft BOTTOM DEPTH: 1844.211 ft

SYMMETRIC FILTER

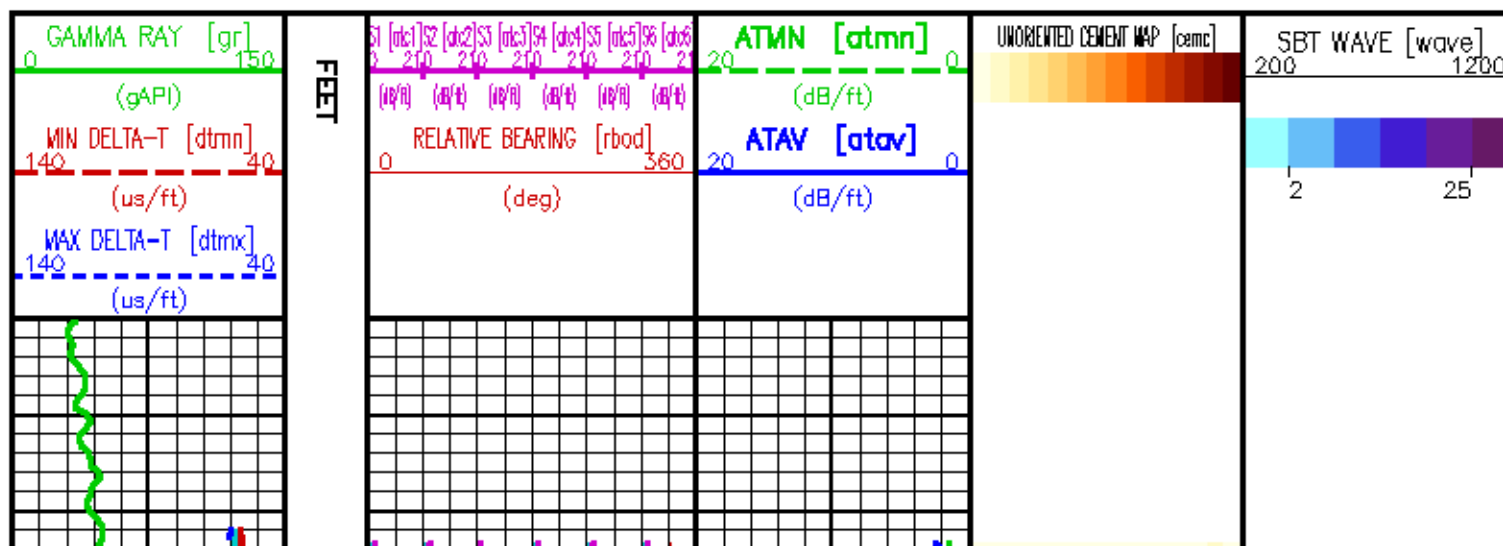
MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (ft)	
GR	FILTER ()	medium (1)		TOP	BOTTOM
DTM	FILTER ()	medium (1)		TOP	BOTTOM

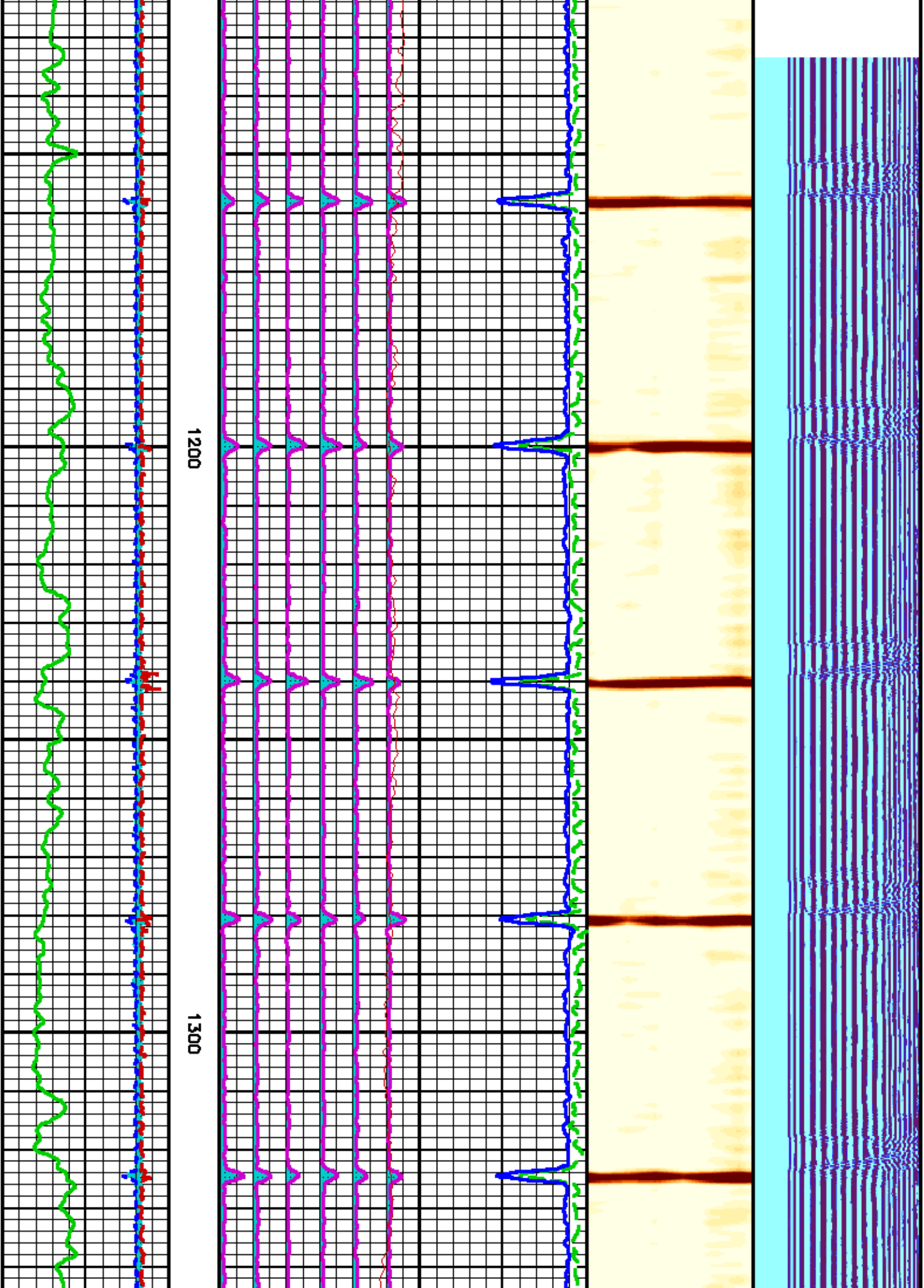
SBT PROCESSING					
MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (ft)	
SBT	CASING OD	7.000	in	TOP	BOTTOM
	CASING WT	28.000	lbs/ft	"	"
	CORR. FACTOR 1	0.000	dB/ft	"	"
	CORR. FACTOR 2	0.000	dB/ft	"	"
	CORR. FACTOR 3	0.000	dB/ft	"	"
	CORR. FACTOR 4	0.000	dB/ft	"	"
	CORR. FACTOR 5	0.000	dB/ft	"	"
	CORR. FACTOR 6	0.000	dB/ft	"	"
	SPACING	0.854	ft	"	"
	SPREADING FACTOR	4.589	dB/ft	"	"
	CEMENT STRENGTH	1500	psi	"	"
	HI CUTOFF	8.036	dB/ft	"	"
	LOW CUTOFF	2.904	dB/ft	"	"

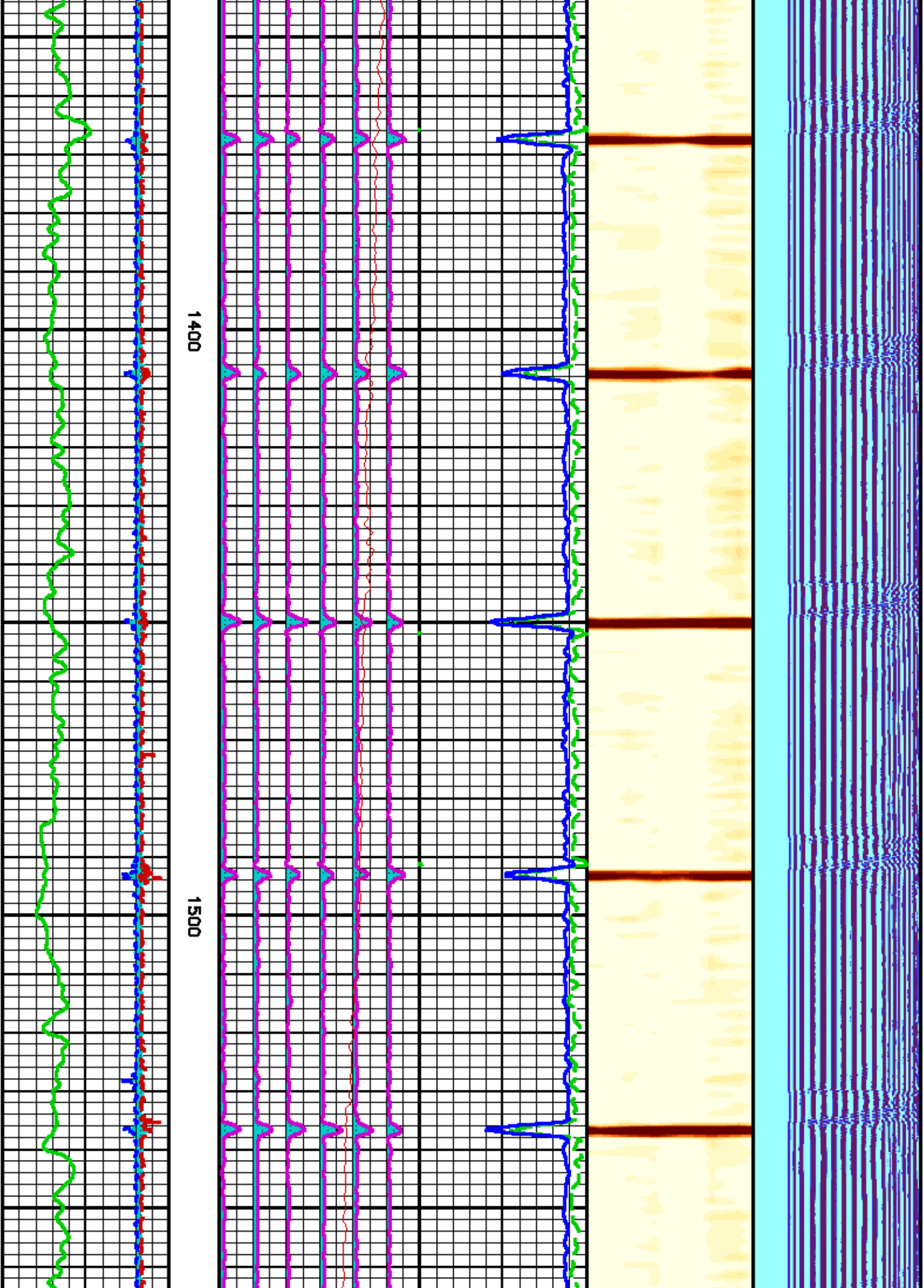
CURVE DESCRIPTION REPORT				
CURVE NAME	CURVE ALIAS	CREATION DATE	CURVE DESCRIPTION	
F1:ATAV	ATAV	Aug 25 03:58:58 2010	AVERAGE ATTENUATION	
F1:ATC1	ATC1	Aug 25 03:58:58 2010	ATTENUATION PAD 1	
F1:ATC2	ATC2	Aug 25 03:58:58 2010	ATTENUATION PAD 2	
F1:ATC3	ATC3	Aug 25 03:58:58 2010	ATTENUATION PAD 3	
F1:ATC4	ATC4	Aug 25 03:58:58 2010	ATTENUATION PAD 4	
F1:ATC5	ATC5	Aug 25 03:58:58 2010	ATTENUATION PAD 5	
F1:ATC6	ATC6	Aug 25 03:58:58 2010	ATTENUATION PAD 6	
F1:ATMN	ATMN	Aug 25 03:58:58 2010	ATTENUATION MINIMUM	
F1:CEMC	UNORIENTED	Aug 25 03:58:58 2010	CALIBRATED CEMENT MAP	
F1:DTMN	DTMN	Aug 25 03:58:58 2010	MINIMAL DELTA-T	
F1:DTMX	DTMX	Aug 25 03:58:58 2010	MAXIMAL DELTA-T	
F1:GR	GR	Aug 25 03:58:58 2010	GAMMA RAY	
F1:RBOD	RBOD	Aug 25 03:58:58 2010	RELATIVE BEARING (RELATIVE TO HIGH SIDE OF BOREHOLE)	
F1:WAVE	WAVE	Aug 25 03:58:58 2010	250 BYTES DIGITIZED WAVEFORM	

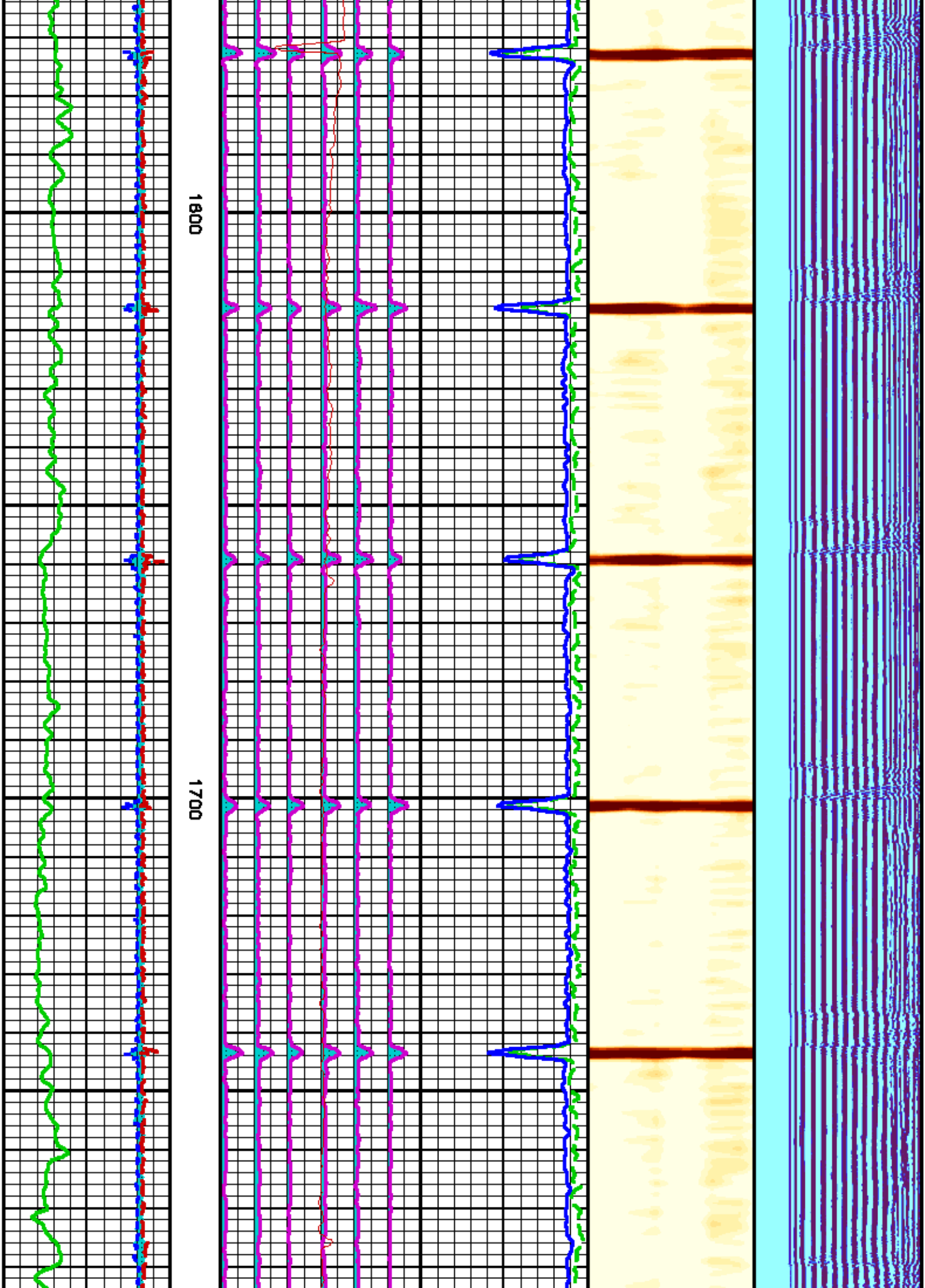
CURVE MEASURE POINT OFFSET							
CURVE	OFFSET (ft)	CURVE	OFFSET (ft)	CURVE	OFFSET (ft)	CURVE	OFFSET (ft)
ATAV	19.75	ATC3	19.75	ATC6	19.75	DTMX	19.75
ATC1	19.75	ATC4	19.75	ATMN	19.75	GR	42.75
ATC2	19.75	ATC5	19.75	DTMN	19.75	RBOD	19.75

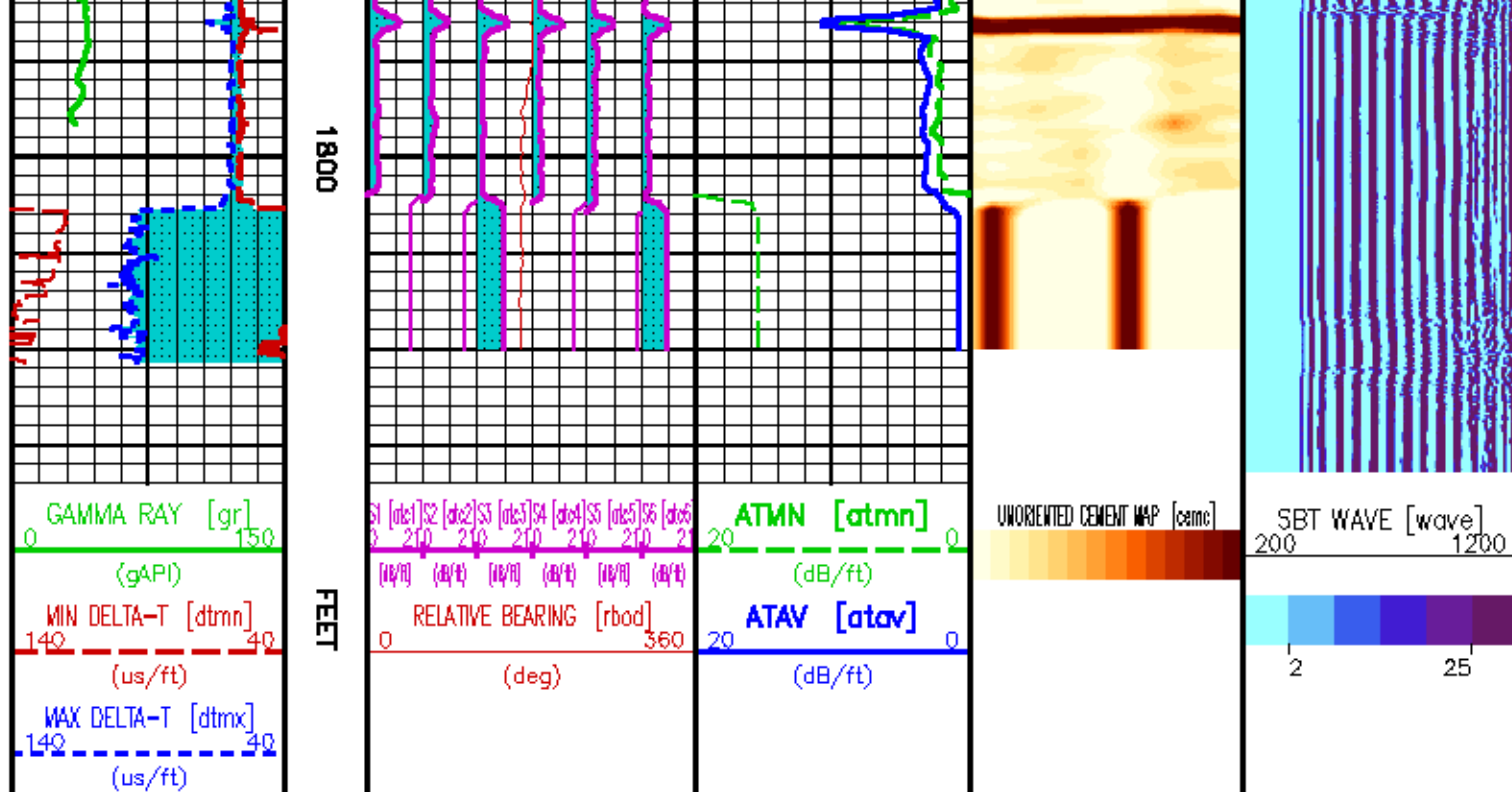
Presentation	: mfg1:/data/576716/gunneon/run3/normalization.pdf [5"/100' Scale]
Plot Interval	: 1089.75 - 1838.75 Feet
Data File 1	: F1 : mfg1:/data/576716/gunneon/run3/normalization.adf
Created On	: Aug 25 03:58:58 2010
Company	: GUNNEON ENERGY CORP
Well	: OAK MESA HUGHES 1303 B 12-22
Field	: WILDCAT
File Interval	: 1089.75 - 1843 Feet
Out	: k381a











REPEAT LOG 5"/100FT SCALE 0 PSI

ECLIPS 6.01 Feb 21, 2008
Updates: 1,39,40 Patches: 1,2,4,5,6

Wed Aug 25 06:19:26 2010

Perpllt /main/62

Cplot

Pdf_Cpp /main/16

Fileview 5.42

PARAMETER AND FILTER SUMMARY REPORT

FILE: /data/576716/gunni/main/run3/k391a03.prm
LOGGING MODE: DEPTH DIRECTION: UP
TOP DEPTH: 3910.750 ft BOTTOM DEPTH: 4287.000 ft

SYMMETRIC FILTER

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (ft)	
GR	FILTER ()	medium (1)		TOP	BOTTOM
SBT	FILTER ()	medium (1)		"	"

SBT PROCESSING

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (ft)	
SBT	CASING OD	7.000	in	TOP	BOTTOM
	CASING WT	28.000	lbs/ft	"	"
	CORR. FACTOR 1	-0.488	dB/ft	"	"
	CORR. FACTOR 2	-0.284	dB/ft	"	"
	CORR. FACTOR 3	0.714	dB/ft	"	"
	CORR. FACTOR 4	-0.088	dB/ft	"	"
	CORR. FACTOR 5	0.024	dB/ft	"	"
	CORR. FACTOR 6	0.132	dB/ft	"	"
	SPACING	0.854	ft	"	"
	SPREADING FACTOR	4.589	dB/ft	"	"
	CEMENT STRENGTH	1500	psi	"	"
	HI CUTOFF	8.036	dB/ft	"	"
	LOW CUTOFF	2.904	dB/ft	"	"

CURVE DESCRIPTION REPORT

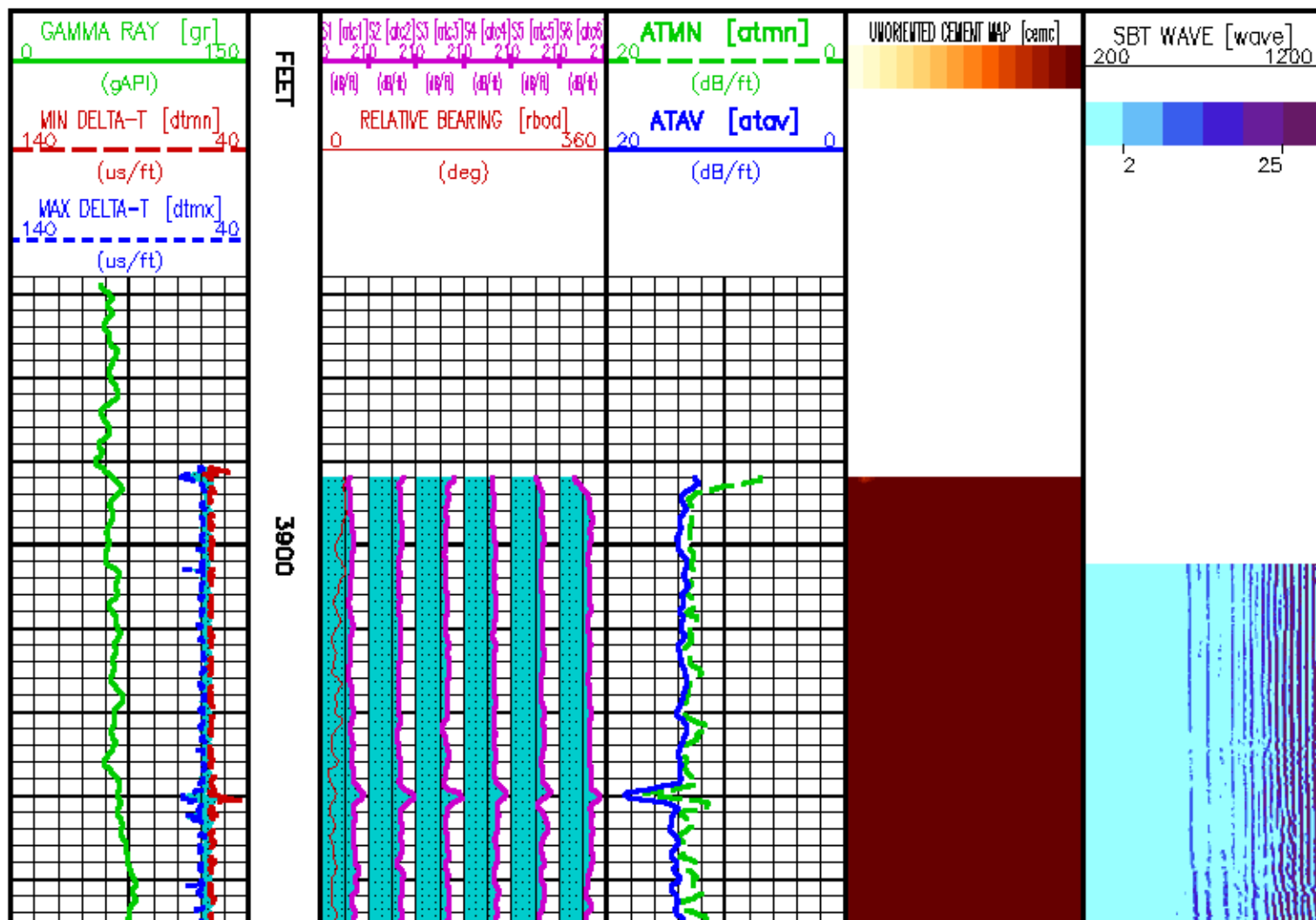
CURVE NAME	CURVE ALIAS	CREATION DATE	CURVE DESCRIPTION
F1:ATAV	ATAV	Aug 25 04:38:55 2010	AVERAGE ATTENUATION
F1:ATC1	ATC1	Aug 25 04:38:55 2010	ATTENUATION PAD 1
F1:ATC2	ATC2	Aug 25 04:38:55 2010	ATTENUATION PAD 2
F1:ATC3	ATC3	Aug 25 04:38:55 2010	ATTENUATION PAD 3
F1:ATC4	ATC4	Aug 25 04:38:55 2010	ATTENUATION PAD 4
F1:ATC5	ATC5	Aug 25 04:38:55 2010	ATTENUATION PAD 5
F1:ATC6	ATC6	Aug 25 04:38:55 2010	ATTENUATION PAD 6
F1:ATMN	ATMN	Aug 25 04:38:55 2010	ATTENUATION MINIMUM
F1:CEMC	UNORIENTED	Aug 25 04:38:55 2010	CALIBRATED CEMENT MAP
F1:DTMN	DTMN	Aug 25 04:38:55 2010	MINIMAL DELTA-T
F1:DTMX	DTMX	Aug 25 04:38:55 2010	MAXIMAL DELTA-T
F1:GR	GR	Aug 25 04:38:55 2010	GAMMA RAY
F1:RBOD	RBOD	Aug 25 04:38:55 2010	RELATIVE BEARING (RELATIVE TO HIGH SIDE OF BOREHOLE)
F1:WAVE	WAVE	Aug 25 04:38:55 2010	250 BYTES DIGITIZED WAVEFORM

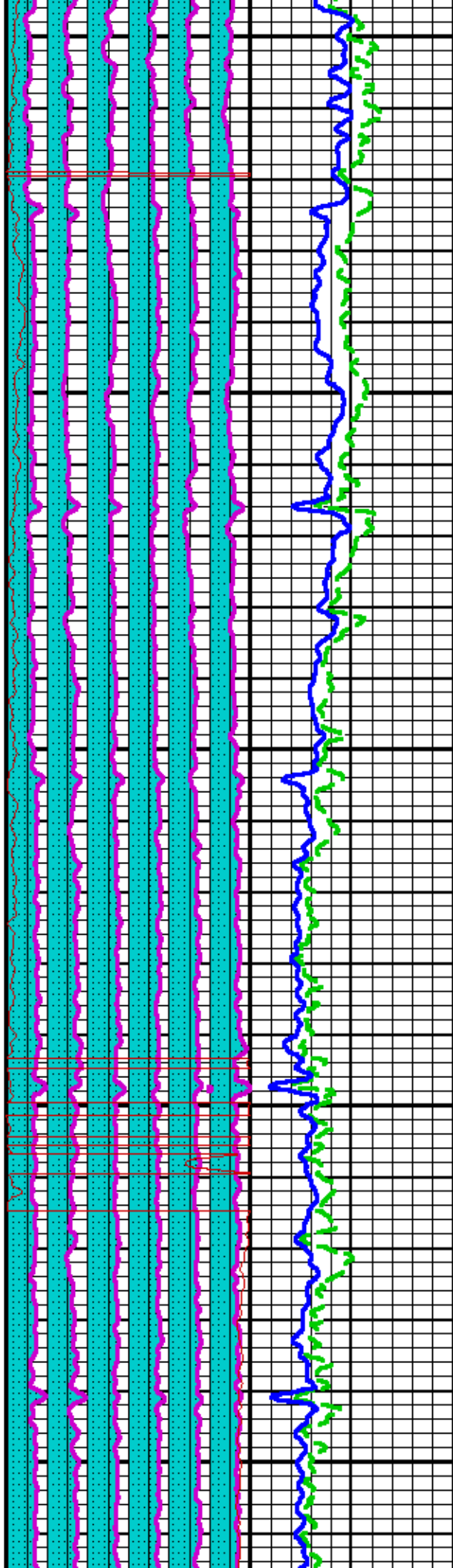
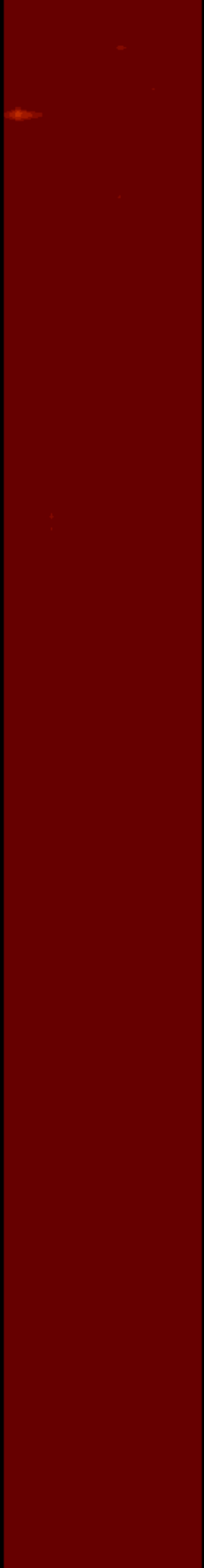
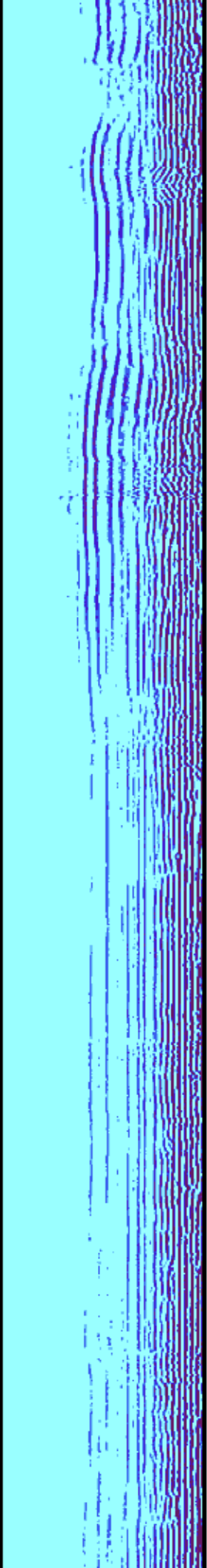
CURVE MEASURE POINT OFFSET

CURVE	OFFSET (ft)	CURVE	OFFSET (ft)	CURVE	OFFSET (ft)	CURVE	OFFSET (ft)
ATAV	19.75	ATC3	19.75	ATC6	19.75	DTMX	19.75
ATC1	19.75	ATC4	19.75	ATMN	19.75	GR	42.75
ATC2	19.75	ATC5	19.75	DTMN	19.75	RBOD	19.75

Presentation : mfg1:/data/576716/gunneon/run3/repeat.pdf [5"/100' Scale]
 Plot Interval : 3858.5 - 4287.75 Feet

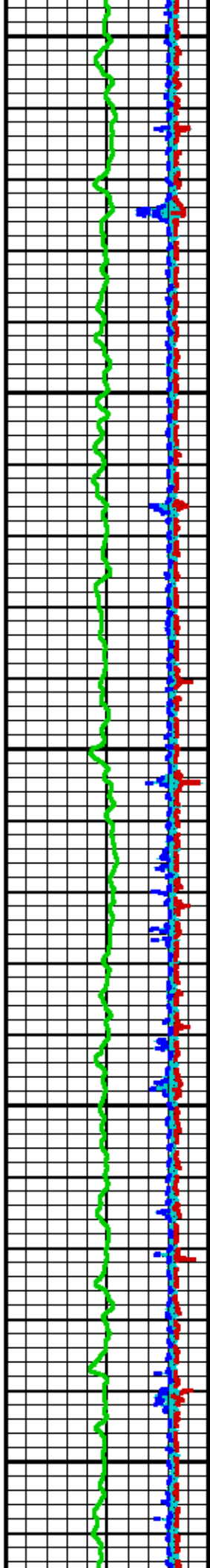
Data File 1 : F1 : mfg1:/data/576716/gunneon/run3/repeat.xdf
 Created On : Aug 25 04:38:55 2010
 Company : GUNNEON ENERGY CORP
 Well : OAK MESA HUGHES 1303 B 12-22
 Field : WILDCAT
 File Interval : 3858.5 - 4287 Feet
 Out : k391a

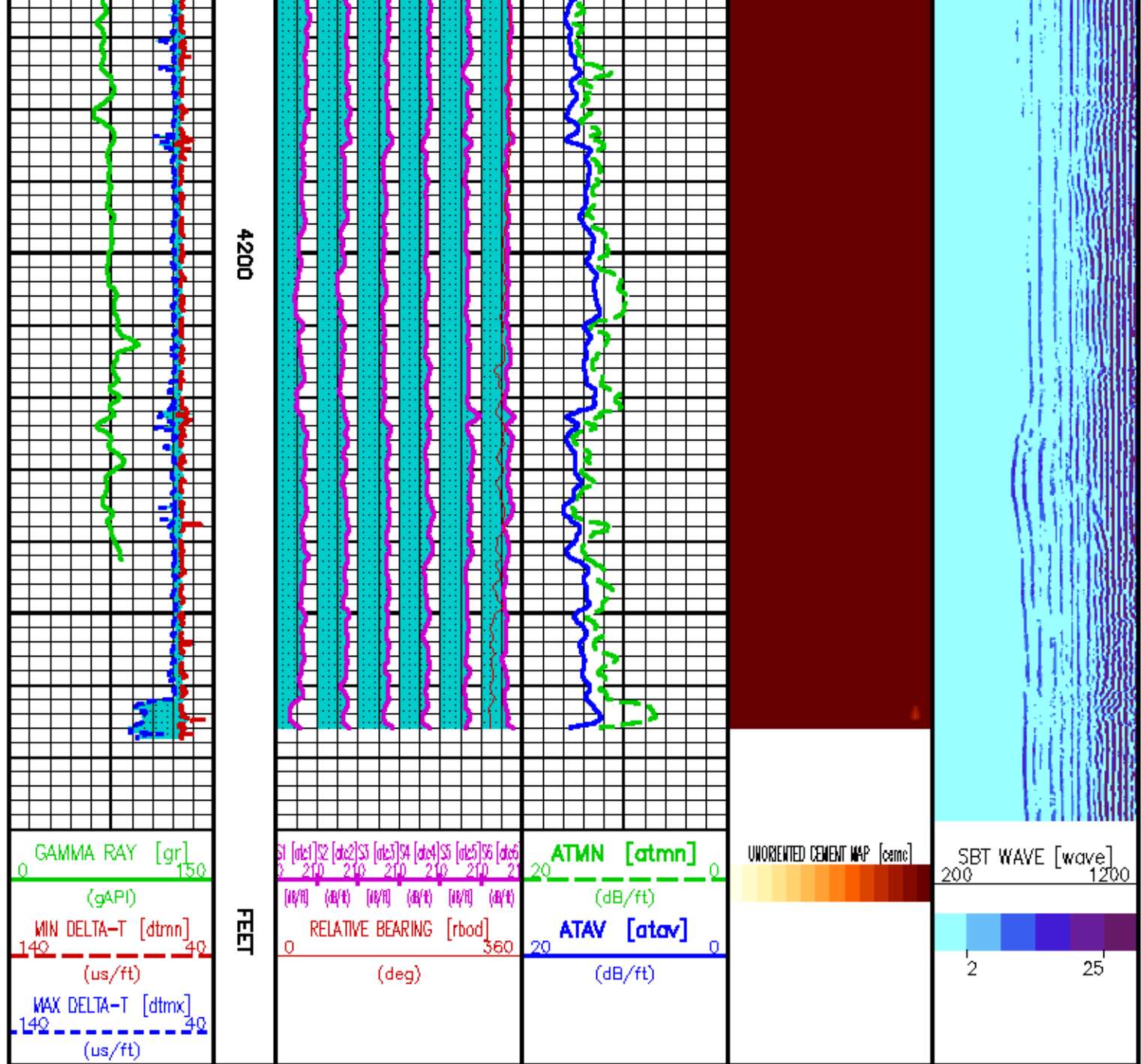




4000

4100





CALIBRATION / VERIFICATION SUMMARY

Source File: /dall/a/576716/gunnison/run3/k381a.tp1

GR PRIMARY CALIBRATION SUMMARY

TOOL #: 1309XA 10596142

DATE/TIME PERFORMED: Wed Aug 25 03:42:48 2010

UNIT #: 3880TA HL6741

CALB JIG #: 4702NK BA-856

	BACKGROUND (cts/s)	CALBRTR ON (cts/s)	CR DIFF (cts/s)	MULT	BACKGROUND (gAPI)	CALBRTR ON (gAPI)	CALBRTR (gAPI)
GR	31.82	205.47	173.6 170.0 242.0	0.864	27.49	177.49	150

GR PRIMARY VERIFICATION SUMMARY

TOOL #: 1309XA 10596142

DATE/TIME PERFORMED: Wed Aug 25 03:47:04 2010

UNIT #: 3880TA HL6741

VERI JIG #: 4702NK BA-856

	BACKGROUND (cts/s)	CALBRTR ON (cts/s)	MULT	BACKGROUND (gAPI)	CALBRTR ON (gAPI)	DIFF. (gAPI)
GR	31.44	200.22	0.864	27.16	172.96	145.80 140.00 160.00

GR BEFORE LOG VERIFICATION SUMMARY

TOOL #: 1309XA 10596142

DATE/TIME PERFORMED: Wed Aug 25 03:49:14 2010

DAYS SINCE CAL: 0

UNIT #: 3880TA HL6741

VERI JIG #: 4702NK BA-856

	BACKGROUND (cts/s)	CALBRTR ON (cts/s)	MULT	BACKGROUND (gAPI)	CALBRTR ON (gAPI)	DIFF. (gAPI)
GR	32.58	199.09	0.864	28.14	171.98	143.84 135.80 155.80

GR AFTER LOG VERIFICATION SUMMARY

TOOL #: 1309XA 10596142

DATE/TIME PERFORMED: Wed Aug 25 07:30:42 2010

DAYS SINCE CAL: 0

UNIT #: 3880TA HL6741

VERI JIG #: 4702NK BA-856

	BACKGROUND (cts/s)	CALBRTR ON (cts/s)	MULT	BACKGROUND (gAPI)	CALBRTR ON (gAPI)	DIFF. (gAPI)
GR	29.38	196.64	0.864	25.38	169.87	144.49 133.84 153.84

RB PRIMARY CALIBRATION SUMMARY

TOOL #: 1424XA 121870

DATE/TIME PERFORMED: Sat Oct 10 16:50:51 2009

UNIT #: 3880TA HL6741

	X-ATT (raw)	Y-ATT (raw)	OFFSET (deg)	X-MAX	Y-MAX	RB (deg)
PAD 2	-140.0	-448.2				0.00 365.00 5.00
PAD 3	-453.4	-123.6				57.38

1234	1234	1234	55.00	55.00
-72.45	-464.32	470.08		

SBT PRIMARY CALIBRATION SUMMARY

TOOL #: 1424XA 121870

DATE/TIME PERFORMED: Sat Oct 10 16:47:44 2009

UNIT #: 3880TA HL6741

	PAD 1	PAD 2	PAD 3	PAD 4	PAD 5	PAD 6
NOISE LEVEL	5.3 10.0	4.9 10.0	3.9 10.0	4.9 10.0	3.7 10.0	6.8 10.0
PAD SENS	279.8 150.0	228.1 150.0	220.0 150.0	198.6 150.0	239.1 150.0	284.0 150.0

INSTRUMENT CONFIGURATION

Source File: /dal1a/578716/gunnison/run3/k381a"-ldg

CABLEHEAD

Series : CABL338
Mnemonic : CBLH
Diameter : 3.38"
Weight : 24 lbs

CCL

Series : 2346XA
Mnemonic : CCL
Diameter : 4.50"
Weight : 97 lbs
Length : 6.78'
Measure Point: 4.15': CCL MP

GAMMA RAY

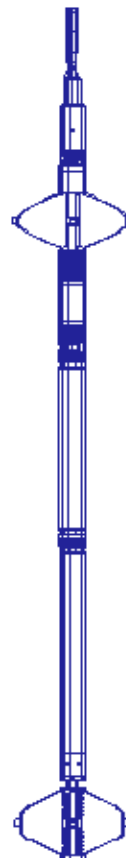
Series : 1309XA
Mnemonic : GR
Diameter : 3.63"
Weight : 120 lbs
Length : 6.51'
Measure Point: 1.33': GR MP

ACOUSTIC DIGITIZER

Series : 1833EA
Mnemonic : AC
Diameter : 3.38"
Weight : 133 lbs
Length : 8.00'

4 ARM BOW SPRING CENTRALIZER

Series : 4341XA
Mnemonic : CENT



60.53'

CABLEHEAD TOP 57.78'

CCL MP 52.40'

GR MP 43.07'

Diameter : 3.38"

SEGMENTED BOND TOOL

Series : 1424XA
Mnemonic : SBT
Diameter : 4.50"
Weight : 240 lbs
Length : 17.33'
Measure Point: 7.54': ATT MP

SEGMENTED BOND TOOL VDL SUB

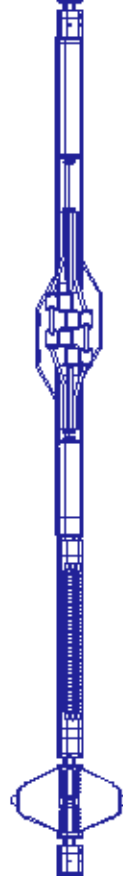
Series : 1424PA
Mnemonic : SBT
Diameter : 3.38"
Weight : 108 lbs
Length : 7.89'
Measure Point: 4.00': SBT MP

4 ARM BOW SPRING CENTRALIZER

Series : 4341XA
Mnemonic : CENT
Diameter : 3.38"

BULL PLUG 3 3/8

TOTAL LENGTH: 60.53'
TOTAL WEIGHT: 868 lbs
MAX DIAMETER: 0'4.50'



ATT MP 19.83'

SBT MP 8.40'

0.00'



COMPANY
WELL
FIELD
COUNTY

GUNNISON ENERGY CORPORATION
OAK MESA UNIT HUGHES 1393 #12-22
WILD CAT
DELTA STATE COLORADO

FILE NO:

API NO:

05029061080000

LOCATION:

SHL: 2513' FNL & 2078' FNL

ELEVATIONS:

KB 9124 FT

DF 9123 FT

GL 9105 FT

TIGHT HOLE

SEC 12 TWP 13S RGE 03W

DATE 25-AUG-2010

Baker Atlas

