BAKER HUGHES

GAMMA RAY LOG
COMPENSATED NEUTRON LOG
COMPENSATED DENSILOG™
CALIPER LOG
HIGH DEFINITION INDUCTION LOG™

FILE NO: US625568
API NO: 05045217470000

COMPANY WPX ENERGY INC
WELL STRAIT SG 341-22
FIELD GRAND VALLEY
COUNTY GARFIELD STATE CO

Ver. 3.87
S22 T7S R96W
PAD SG 42-22
RIG CYCLONE 17

LOCATION:
SHL: 1458' FNL; 286' FEL
BHL: 616' FNL; 623' FEL

SEC 22 TWN 7S RGE 96W

OTHER SERVICES
ORIT
XMAC

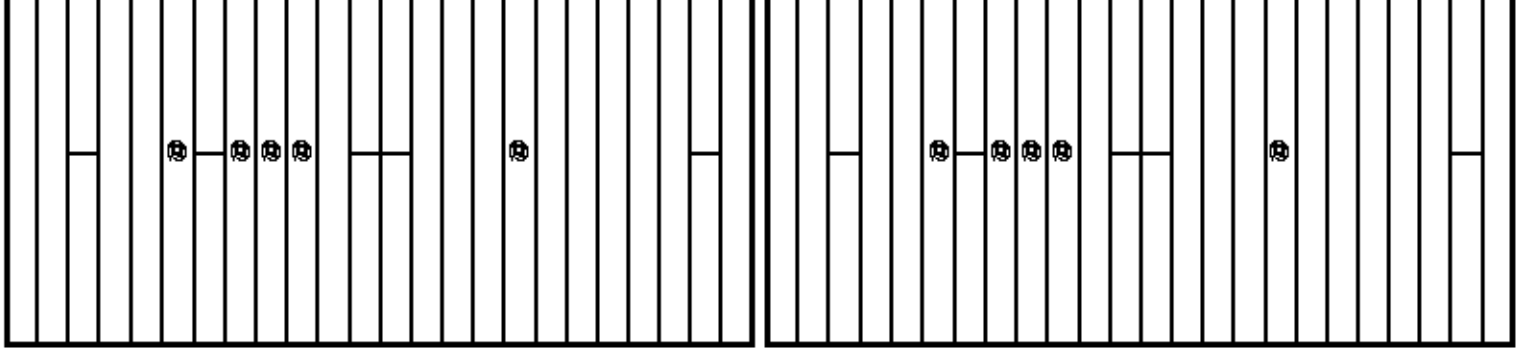
PERMANENT DATUM	G.L.	ELEVATION	5222 FT
LOG MEASURED FROM	KB	22 FT	ABOVE P.D.
DRILL. MEAS. FROM	KB		

ELEVATIONS:
KB 5244 FT
DF
GL 5222 FT

DATE		12-Aug-2013			12-Aug-2013		
RUN	TRIP	1	1		2	1	
SERVICE ORDER		625568			625568		
DEPTH DRILLER		870 FT			870 FT		
DEPTH LOGGER		864 FT			864 FT		
BOTTOM LOGGED INTERVAL		818 FT			807 FT		
TOP LOGGED INTERVAL		0 FT			10 FT		
CASING DRILLER		0 IN	@ 84 FT		18 IN	@ 84 FT	
CASING LOGGER		82 FT			82 FT		
BIT SIZE		13.5 IN			13.5 IN		
TYPE OF FLUID IN HOLE		WBM			WBM		
DENSITY	VISCOSITY	9.8 LB/G	82 CP		9.8 LB/G	82 CP	
PH	FLUID LOSS	9.6	5.4 C3		9.6	5.4 C3	
SOURCE OF SAMPLE		FLOWLINE			FLOWLINE		
RM AT MEAS. TEMP.		0.37 OHMM	@ 80 DEGF		0.37 OHMM	@ 80 DEGF	
RMF AT MEAS. TEMP.		0.277 OHMM	@ 80 DEGF		0.277 OHMM	@ 80 DEGF	
RMC AT MEAS. TEMP.		0.462 OHMM	@ 80 DEGF		0.462 OHMM	@ 80 DEGF	
SOURCE OF RMF	RMC	CALCULATED	CALCULATED		CALCULATED	CALCULATED	
RM AT BHT		1.422 OHMM	@ 100.45 DEGF		1.473 OHMM	@ 101.4 DEGF	
TIME SINCE CIRCULATION		5 HRS			7 HRS		
MAX. RECORDED TEMP.		105 DEGF			103 DEGF		
EQUIP. NO.	LOCATION	6670	GRAND JUNC		6670	GRAND JUNC	
RECORDED BY		PATTON			PATTON		
WITNESSED BY		MIKE BRUNK			MIKE BRUNK		

DATE		15-Aug-2013					
RUN	TRIP	3	1				
SERVICE ORDER		625570					
DEPTH DRILLER		5770 FT					
DEPTH LOGGER		5766 FT					
BOTTOM LOGGED INTERVAL		5760 FT					
TOP LOGGED INTERVAL		0 FT					
CASING DRILLER		9.625 IN	@ 857 FT				
CASING LOGGER		854 FT					
BIT SIZE		8.75 IN					
TYPE OF FLUID IN HOLE		WBM					
DENSITY	VISCOSITY	9.95 LB/G	58 CP				
PH	FLUID LOSS	9.5	6.6 C3				
SOURCE OF SAMPLE		FLOWLINE					
RM AT MEAS. TEMP.		1.97 OHMM	@ 80 DEGF				
RMF AT MEAS. TEMP.		1.48 OHMM	@ 75 DEGF				
RMC AT MEAS. TEMP.		2.46 OHMM	@ 75 DEGF				
SOURCE OF RMF	RMC	CALCULATED	CALCULATED				
RM AT BHT		.768 OHMM	@ 163 DEGF				
TIME SINCE CIRCULATION		4 HR					
MAX. RECORDED TEMP.		163 DEGF					
EQUIP. NO.	LOCATION	6670	GRAND JCT				
RECORDED BY		D. SMITH					
WITNESSED BY		M. BRUNK					

DATE							
RUN	TRIP						
SERVICE ORDER							
DEPTH DRILLER							
DEPTH LOGGER							
BOTTOM LOGGED INTERVAL							
TOP LOGGED INTERVAL							
CASING DRILLER			@				
CASING LOGGER							
BIT SIZE							
TYPE OF FLUID IN HOLE							
DENSITY	VISCOSITY						
PH	FLUID LOSS						
SOURCE OF SAMPLE							
RM AT MEAS. TEMP.			@				
RMF AT MEAS. TEMP.			@				
RMC AT MEAS. TEMP.			@				
SOURCE OF RMF	RMC						
RM AT BHT			@				
TIME SINCE CIRCULATION							
MAX. RECORDED TEMP.							
EQUIP. NO.	LOCATION						
RECORDED BY							
WITNESSED BY							



IN MAKING INTERPRETATIONS OF LOGS OUR EMPLOYEES WILL GIVE THE 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
13.5 IN	0 FT	870 FT
8.75 IN	875 FT	5770 FT

CASING RECORD

SIZE	WEIGHT	GRADE	FROM	TO
18 IN	47.44 LB/F		0 FT	84 FT
9.625 IN	32 LB/F		0 FT	857 FT

REMARKS

RUN 1 TRIP 1: HDIL ZDL CN GR RUN IN COMBINATION

BVOL CVOL CALCULATED IN CUBIC FEET
BVOL CALCULATED USING PROPOSED 9.625IN CASING
CALIPER VERIFIED INSIDE CASING

CN MATRIX: SANDSTONE

RHO MATRIX: 2.68 G/CC
RHO FLUID: 1.00 G/CC

HDIL RAN WITH 1.5IN STANDOFFS
ABC TO CALCULATE STANDOFF

RUN 2 TRIP 1: GR-XMAC RUN IN COMBINATION

DT MATRIX: 51.3 USEC/FT

RUN 3 TRIP 1: HDIL-XMAC-ZDL-CN-GR-TTRM RUN IN COMBINATION

BVOL/CVOL CALCULATED IN CUBIC FEET
BVOL CALCULATED USING PROPOSED 4.5 IN PROD CASING
CALIPER VERIFIED INSIDE CASING

CN MATRIX: SANDSTONE

RHO MATRIX: 2.68 G/CC
RHO FLUID: 1.00 G/CC

HDIL RUN WITH 1.5 IN STANDOFFS
ABC TO CALCULATED: STANDOFF

DT MATRIX: 51.3 USEC/FT

RUN 1/RUN 3 MERGED AT 856 FEET
MERGE CAUSED CALIPER GAP AT 850 FT

WELL DRILLED AT 18 DEGREE DEVIATION
LOGGING OUT PULLED CLOSE TO 50% WT

CREW: D. SMITH/Z. OLSON/C. COATE
THANK YOU FOR CHOOSING BAKER HUGHES WIRELINE

EQUIPMENT DATA

RUN	TRIP	TOOL	SERIES NO	SERIAL NO	POSITION

RUN	TRIP	TOOL	SERIES NO.	SERIAL NO.	POSITION
1	1	SWIVEL	3944XD	10195796	FREE
1	1	TTRM	3981XA	10203010	FREE
1	1	TEL	3514XA	10240730	FREE
1	1	GR	1329XA	10196895	FREE
1	1	CN	2446XA	10202034	DECENTRALIZED
1	1	ZDL	2234XA	10211833	PAD DEVICE
1	1	KNUCKLE	3939XA	10399278	FREE
1	1	HDIL EA	1515EA	10049592	STOOD OFF
1	1	HDIL MA	1515MA	10037719	STOOD OFF
2	1	SWIVEL	3944XD	10195796	FREE
2	1	TTRM	3981XA	10203010	FREE
2	1	TEL	3514XA	10240730	FREE
2	1	GR	1329XA	10196895	FREE
2	1	ORIT	4401XA	370714	FREE
2	1	CENTRALIZER	4341XA	12022542	CENTRALIZED
2	1	XMAC EA	1677EA	10366234	FREE
2	1	RECIEVER	1678MC	10202352	FREE
2	1	ISOLATOR	1678PB	10200307	FREE
2	1	TRANSMITTER	1678BA	10203015	FREE
2	1	TX EA	1678FA	10337917	FREE
2	1	CENTRALIZER	4341XA	10211527	CENTRALIZED
3	1	SWIVEL	3944XD	10195796	FREE
3	1	TTRM	3981XA	10203010	FREE
3	1	TEL	3514XA	10240730	FREE
3	1	GR	1329XA	10196895	FREE
3	1	CN	2446XA	10202034	DECENTRALIZED
3	1	ZDL	2234XA	10211833	PAD DEVICE
3	1	ORIT	4401XA	370714	FREE
3	1	CENTRALIZER	4341XA	12022542	CENTRALIZED
3	1	XMAC EA	1677EA	10366234	FREE
3	1	RECIEVER	1678MC	10202352	FREE
3	1	ISOLATOR	1678PB	10200307	FREE
3	1	TRANSMITTER	1678BA	10203015	FREE
3	1	TX EA	1678FA	10337917	FREE
3	1	CENTRALIZER	4341XA	10211527	CENTRALIZED
3	1	KNUCKLE	3939XA	10399278	FREE
3	1	HDIL EA	1515EA	10049592	STOOD OFF
3	1	HDIL MA	1515MA	10037719	STOOD OFF

MAIN LOG 2"/100FT SCALE

ECLIPS 6.2i ECLIPS General Release Rel 6.2i Wed Jun 12 12:21:40 CDT 2013
Patches: 1

Plotted: Thu Aug 15 18:04:03 2013

PARAMETER AND FILTER SUMMARY REPORT

File: /dat1a/625570/nu779x05.prm
LOGGING MODE: DEPTH DIRECTION: UP
TOP DEPTH: 698.250 ft BOTTOM DEPTH: 5770.750 ft

SYMMETRIC FILTER

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (ft)	
				TOP	BOTTOM
TTRM	FILTER ()	medium (1)			
	FILTER (.h)	medium (1)		"	"
	FILTER (.i)	medium (1)		"	"
Y AXIS CALIPER	FILTER ()	medium (1)		"	"
TENSION	FILTER ()	medium (1)		"	"
GR	FILTER ()	medium (1)		"	"
CALIPER	FILTER ()	medium (1)		"	"
	FILTER (.h)	medium (1)		"	"
	FILTER (.i)	medium (1)		"	"
SP-SPDH	FILTER ()	medium (1)		"	"

BOREHOLE & CEMENT

BOREHOLE & CEMENT

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (ft)	
				TOP	BOTTOM
BIT SIZE	BIT SIZE	8.750	in	"	"
MUD SAMPLE RESISTIVITY	MUD SAMPLE TEMP	80.0	degF	"	"
	MUD SAMPLE RES	1.970	ohm.m	"	"
BOREHOLE TEMP from GRADIENT	Known BH REF TEMP	77.0	degF	"	"
	at BH REF DEPTH	0.0	ft	"	"
	with TEMP GRADIENT	1.200	0.01 degF/ft	"	"
BOREHOLE CORR DIAMETER SOURCE	CALIPER/FIXED DIA. (mbh*)	USE CALIPER		"	"
BOREHOLE CORR DIAMETER	FIXED DIAMETER (mbh*)	8.750	in	"	"
BH MUD RESISTIVITY SOURCE	RMUD SOURCE (HDIL)	TOOL MEASURED		"	"

HDIL PROCESSING

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (ft)	
				TOP	BOTTOM
HDIL TEMPERATURE CORRECTION	TEMP CORR SOURCE	USE RXTEMP		"	"
ADAPTIVE BOREHOLE CORRECTION	ABC PROCESSING	ON		"	"
	ABC to CALCULATE	STANDOFF		"	"
	STANDOFF	1.50	in	"	"
	TOOL POSITION	ECCENTERED		"	"
	Rmud MULTIPLIER	1.000		"	"

CURVE DESCRIPTION REPORT

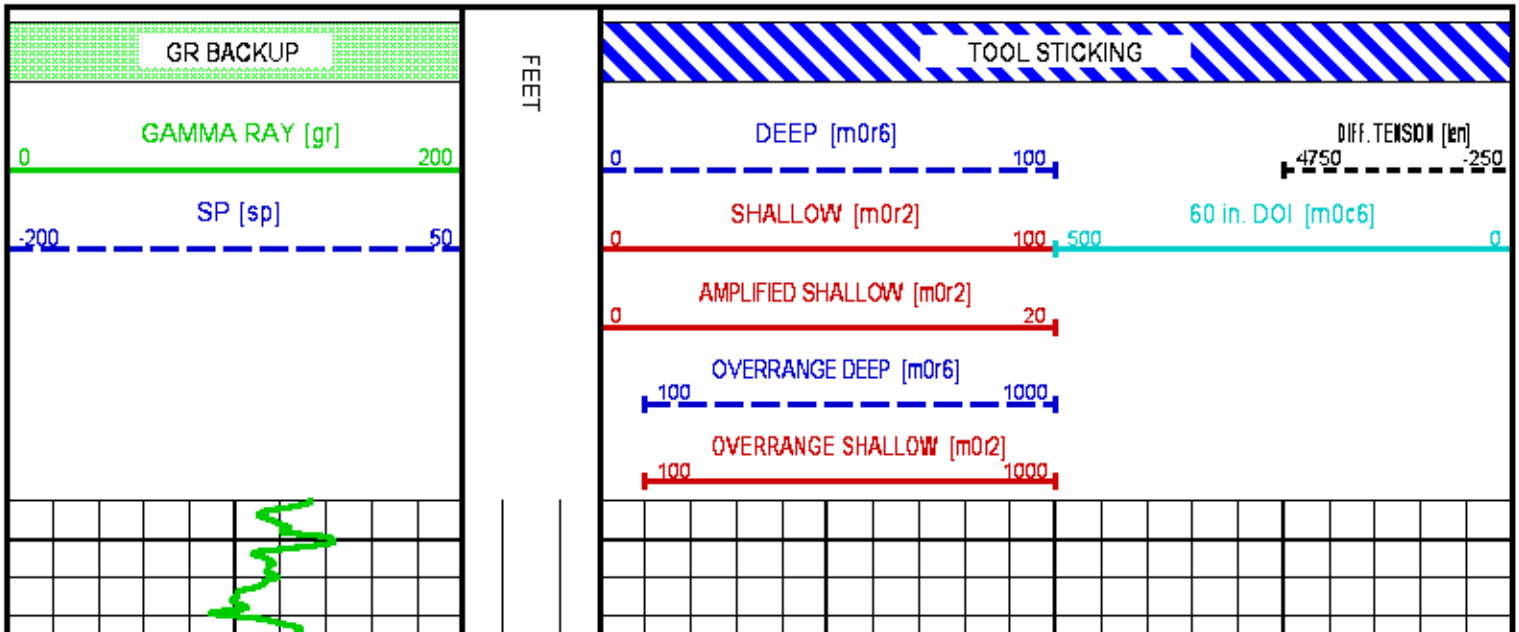
CURVE NAME	CREATION DATE	CURVE DESCRIPTION
F1:GR	Aug 15 12:25:22 2013	GAMMA RAY
F1:MOC6	Aug 15 12:25:22 2013	FOCUSED CONDUCTIVITY, 60-INCH DOI
F1:MOR2	Aug 15 12:25:22 2013	TRUE FOCUSED RESISTIVITY FOR HDIL, 20-INCH DOI
F1:MOR6	Aug 15 12:25:22 2013	TRUE FOCUSED RESISTIVITY FOR HDIL, 60-INCH DOI
F1:SP	Aug 15 12:25:22 2013	SPONTANEOUS POTENTIAL
F1:TEN	Aug 15 12:25:22 2013	DIFFERENTIAL TENSION

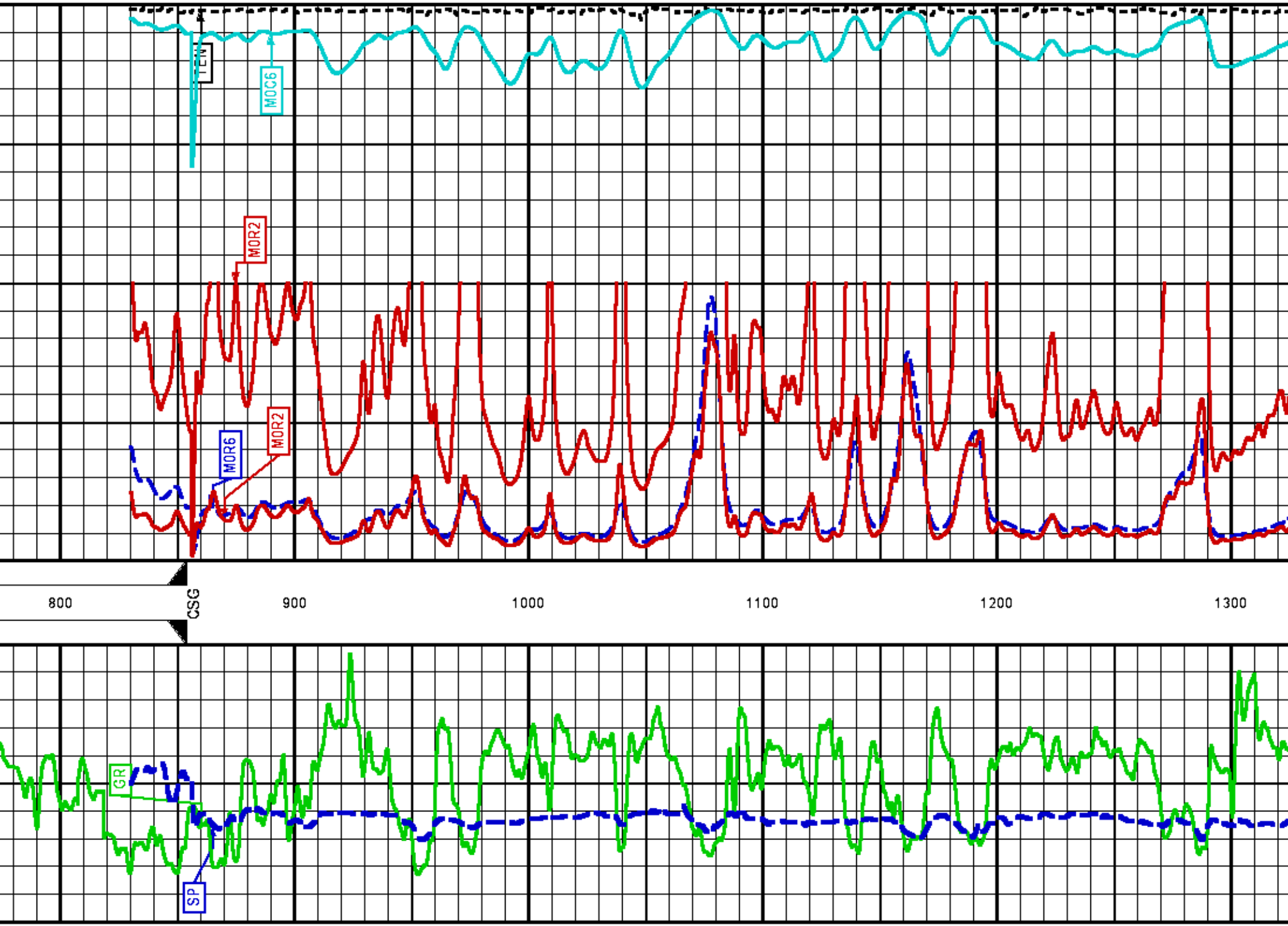
CURVE MEASURE POINT OFFSET

CURVE	OFFSET (ft)	CURVE	OFFSET (ft)	CURVE	OFFSET (ft)	CURVE	OFFSET (ft)
GR	107.25	MOR2	8.00	SP	14.00		
MOC6	8.00	MOR6	8.00	TEN	0.00		

Presentation : **HL6670:WPX_2IN.fvpdf [2"/100' Scale]**
Plot Interval : **740 - 5801 Feet**

Data File 1 : **F1 : HL6670:/dat1a/625570/MAIN_PROD.xtf**
Created On : **Aug 15 12:25:22 2013**
Company : **WPX ENERGY INC**
Well : **STRAIT SG 341-22**
Field : **GRAND VALLEY**
File Interval : **593.75 - 5801 Feet**
OCT : **nu779x**

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CSG
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1200
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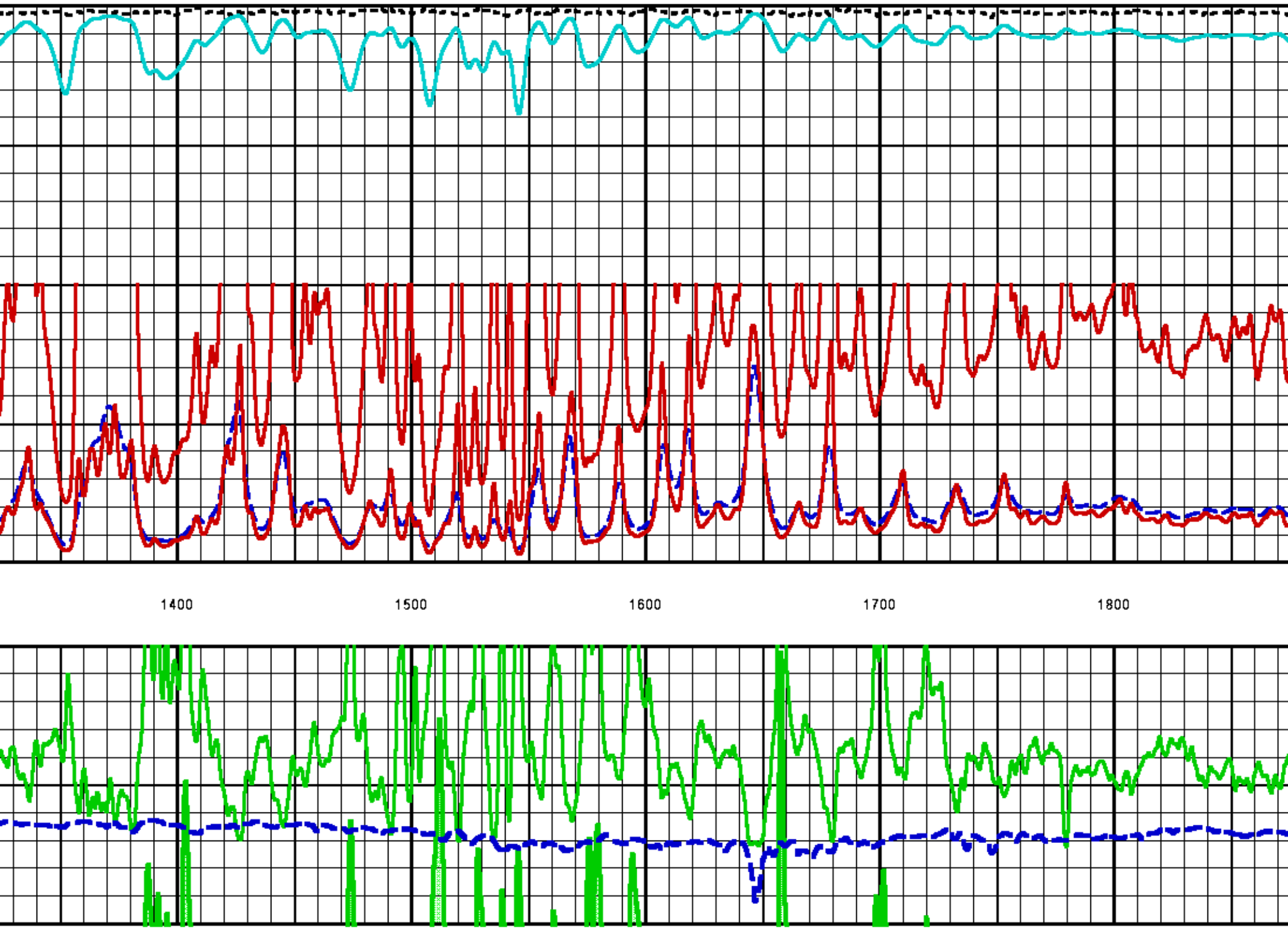
GR
SP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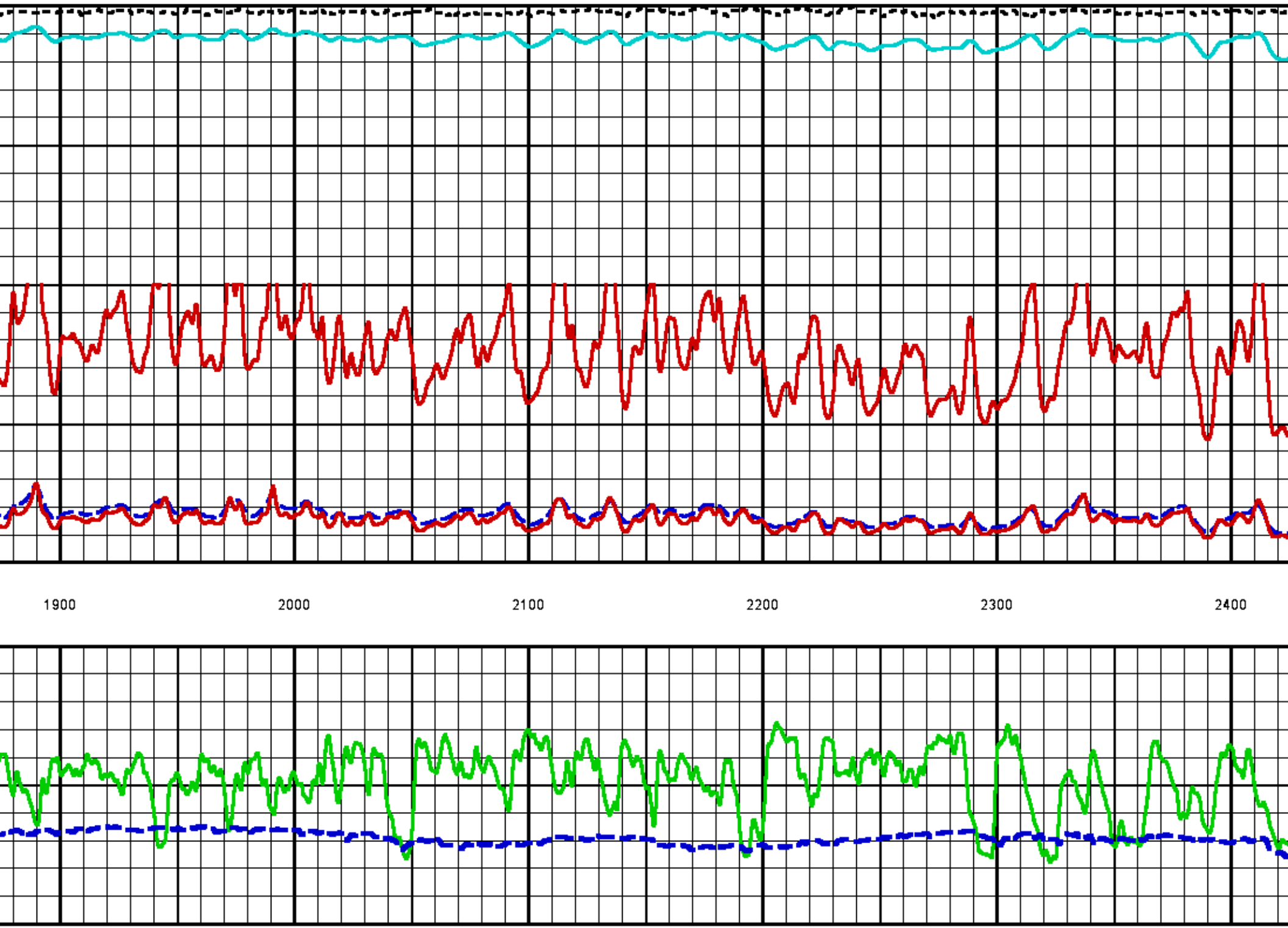
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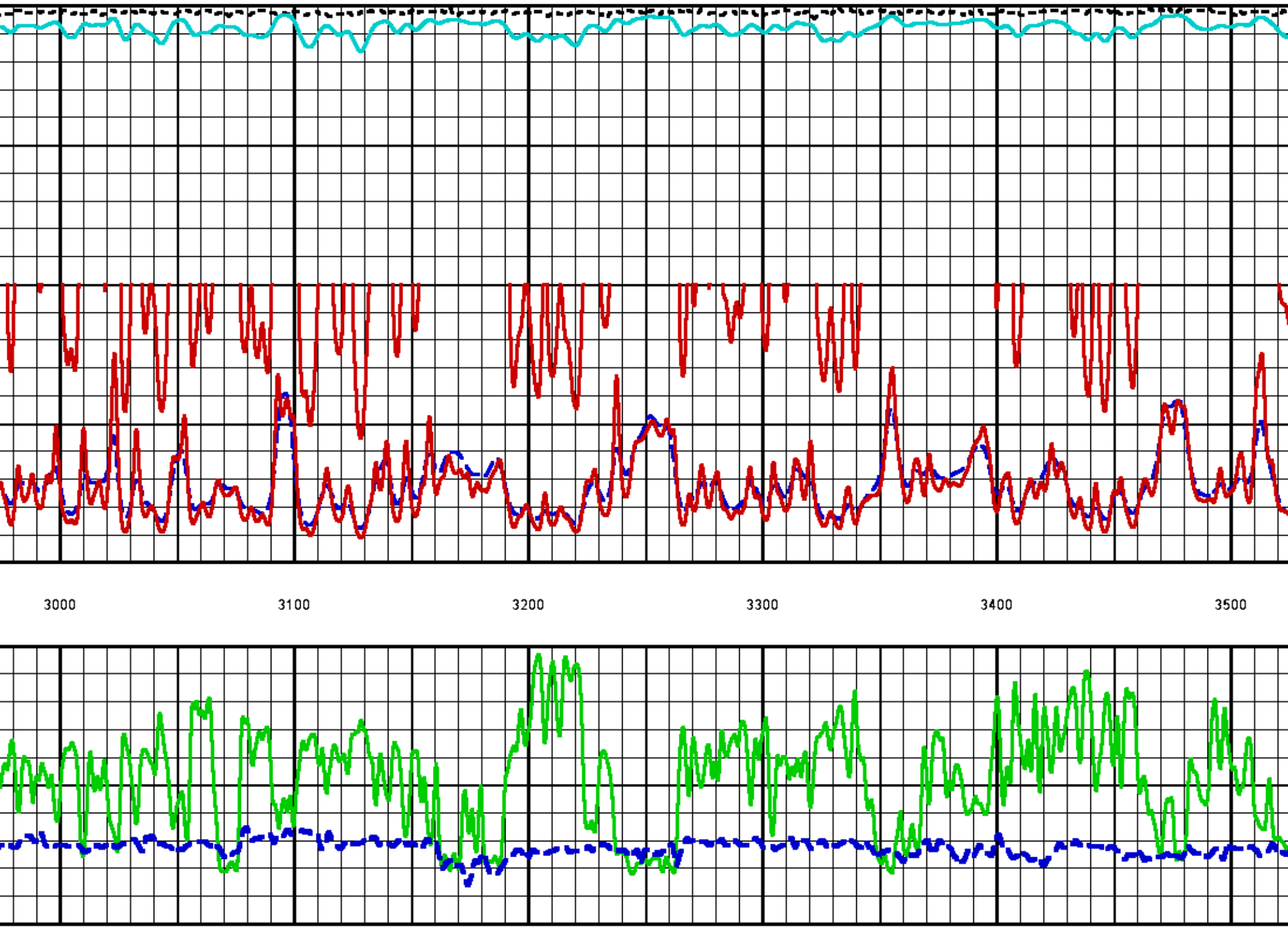
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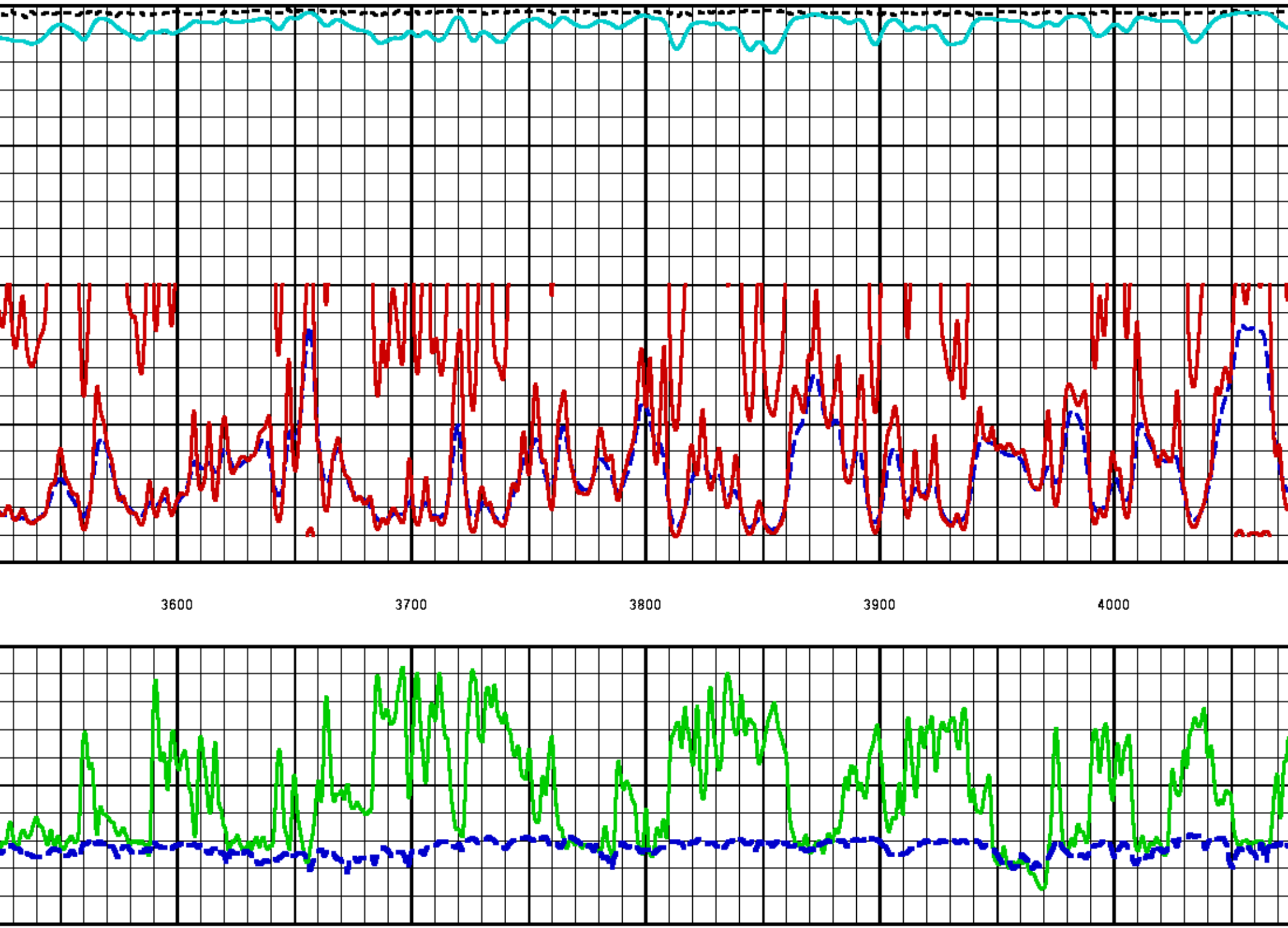
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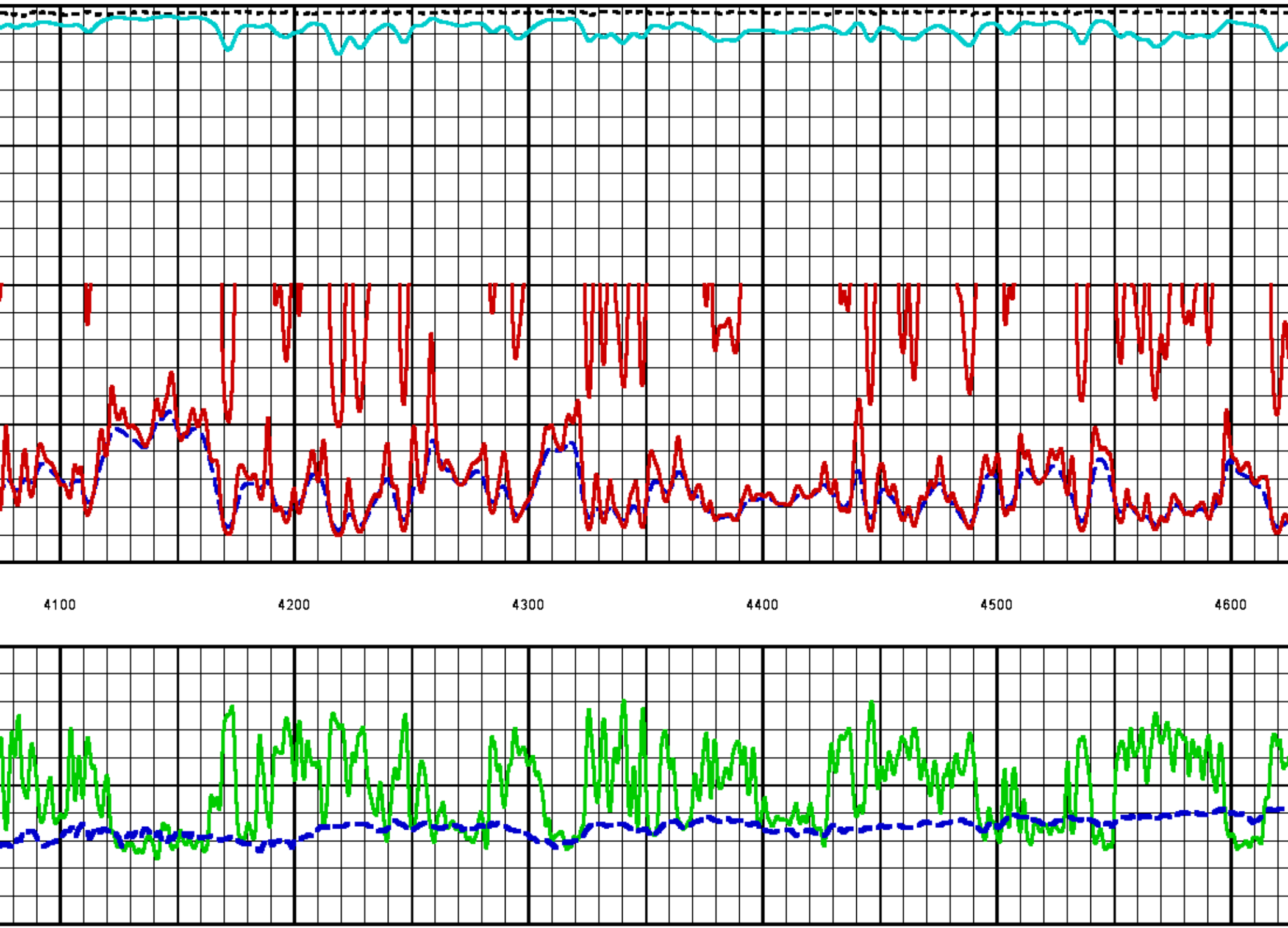
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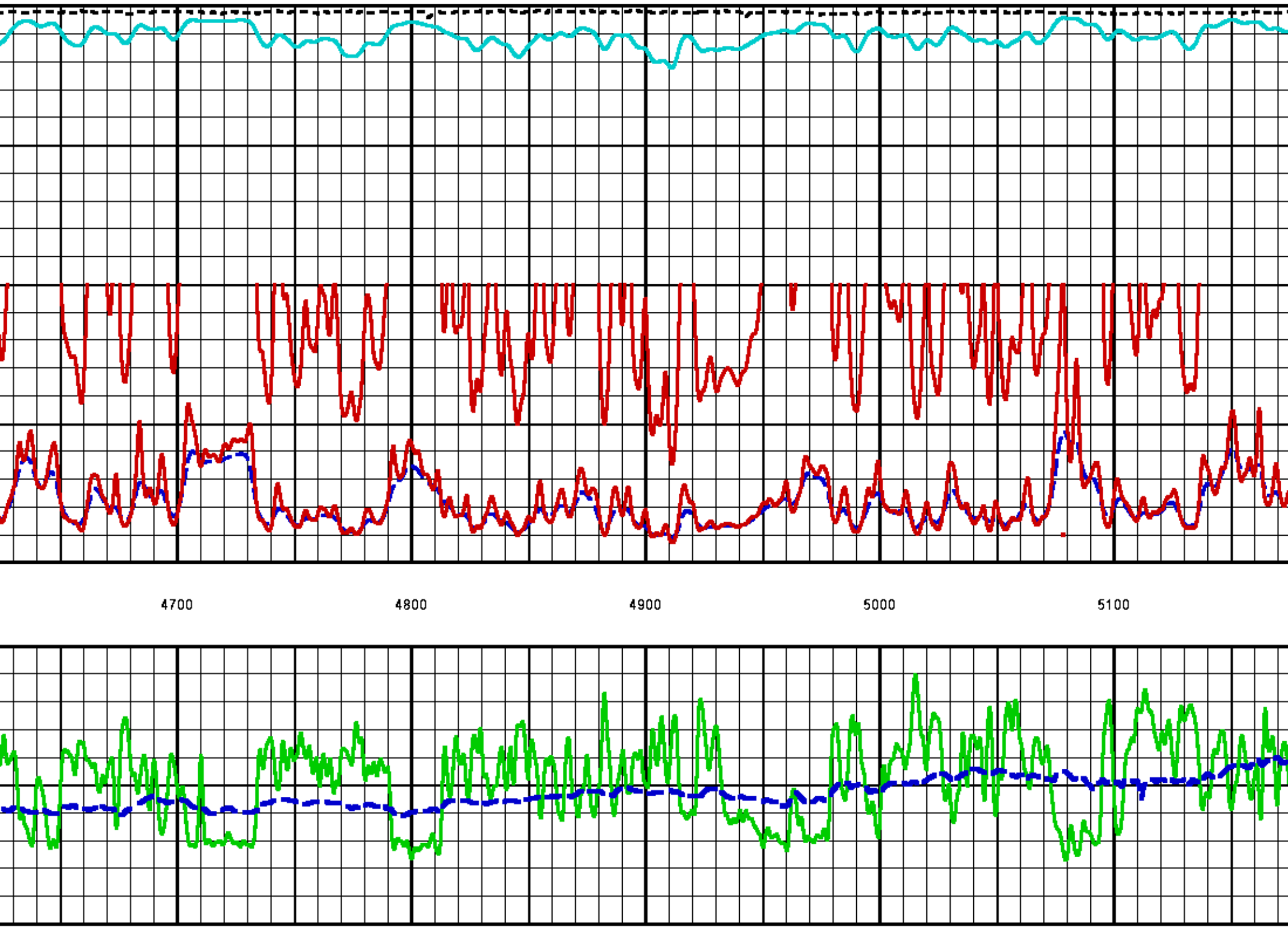
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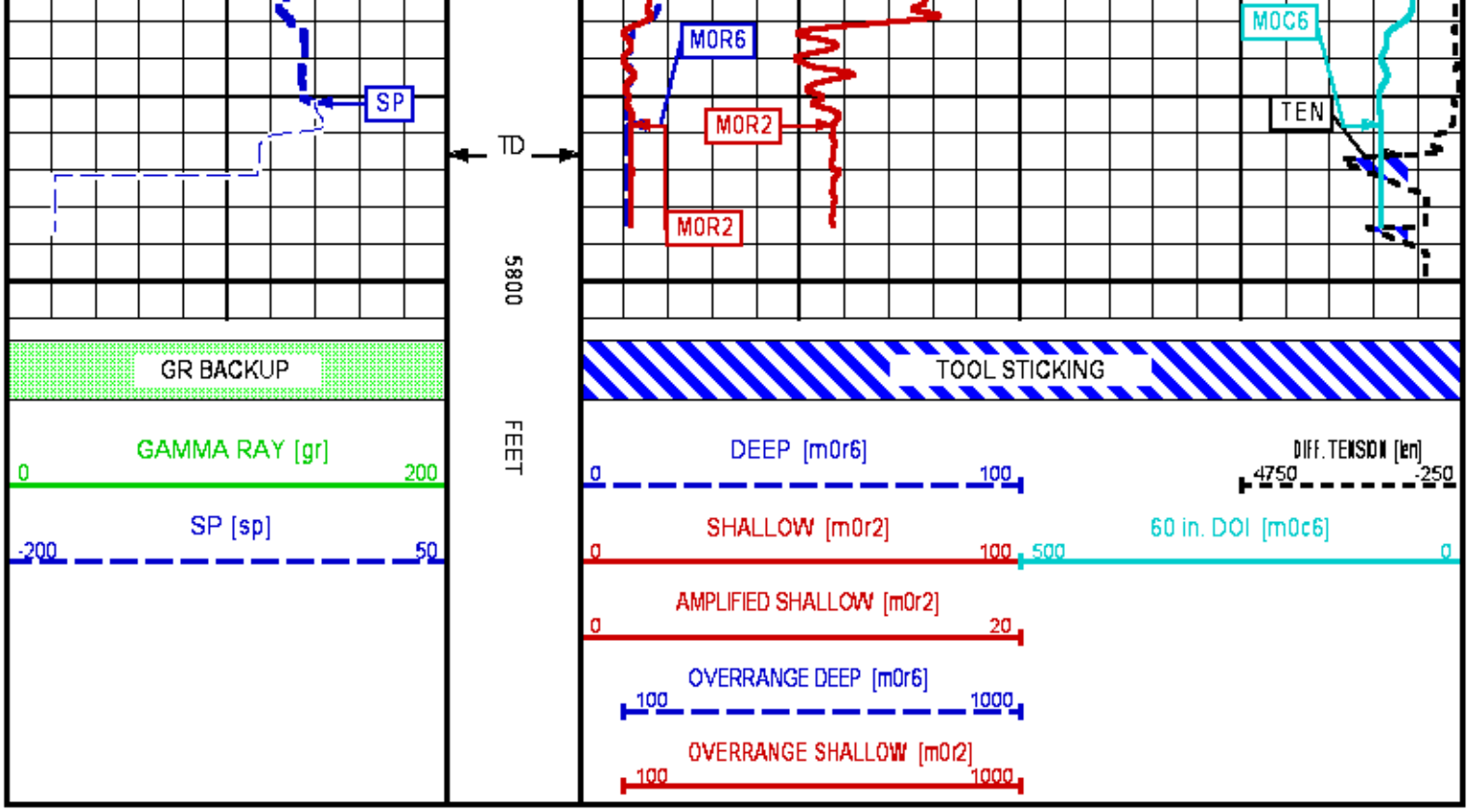


MAIN LOG 5"/100FT SCALE

ECLIPS 6.2i ECLIPS General Release Rel 6.2i Wed Jun 12 12:21:40 CDT 2013
Patches: 1

Plotted: Fri Aug 16 15:21:46 2013

PARAMETER AND FILTER SUMMARY REPORT

File: /dat1a/625570/MAIN_R01.prm
LOGGING MODE: DEPTH DIRECTION: UP
TOP DEPTH: 698.250 ft BOTTOM DEPTH: 5771.000 ft

SYMMETRIC FILTER

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (ft)	
				TOP	BOTTOM
TTRM	FILTER ()	medium (1)			
	FILTER (.h)	medium (1)		"	"
	FILTER (.i)	medium (1)		"	"
Y AXIS CALIPER	FILTER ()	medium (1)		"	"
TENSION	FILTER ()	medium (1)		"	"
GR	FILTER ()	medium (1)		"	"
CN	FILTER ()	medium (1)		"	"
CALIPER	FILTER ()	medium (1)		"	"
	FILTER (.h)	medium (1)		"	"
	FILTER (.i)	medium (1)		"	"
ZDL MED RES	FILTER (hrd1*)	medium		"	"
	FILTER (hrd1s*)	medium		"	"
	FILTER (hrd2*)	medium		"	"
	FILTER (hrd2s*)	medium		"	"
	FILTER (soft*)	medium		"	"
SP-SPDH	FILTER ()	medium (1)		"	"

BOREHOLE & CEMENT

BOREHOLE & CEMENT

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (ft)	
				TOP	BOTTOM
CASING - BOREHOLE & CEMENT VOLUME	CASING O.D.	4.500	in	TOP	BOTTOM
	CASING THICKNESS	0.000	in	"	"
BIT SIZE	BIT SIZE	8.750	in	"	"
MUD SAMPLE RESISTIVITY	MUD SAMPLE TEMP	80.0	degF	"	"
	MUD SAMPLE RES	1.090	ohm.m	"	"
BOREHOLE TEMP from GRADIENT	Known BH REF TEMP	77.0	degF	"	"
	at BH REF DEPTH	0.0	ft	"	"
	with TEMP GRADIENT	1.200	0.01 degF/ft	"	"
BOREHOLE CORR DIAMETER SOURCE	CALIPER/FIXED DIA. (cnbh*)	USE CALIPER		"	"
	CALIPER/FIXED DIA. (mbh*)	USE CALIPER		"	"
BOREHOLE CORR DIAMETER	FIXED DIAMETER (cnbh*)	8.750	in	"	"
	FIXED DIAMETER (mbh*)	8.750	in	"	"
BH MUD RESISTIVITY SOURCE	RMUD SOURCE (HDIL)	TOOL MEASURED		"	"

CN PROCESSING

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (ft)	
				TOP	BOTTOM
2446 CN MATRIX	2446 MATRIX	SANDSTONE		TOP	BOTTOM
CN SALINITY CORRECTION	SALINITY	1550	ppm	"	"
CN TOOL STANDOFF	ENABLE STANDOFF CORR	OFF		"	"
	STANDOFF AMOUNT	0.00	in	"	"
CN CASING & CEMENT CORRECTION	CORRECTION	OFF		"	"
	BIT SIZE BEHIND CSNG	8.750	in	"	"

ZDL PROCESSING

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (ft)	
				TOP	BOTTOM
DENSITY POROSITY	RHOmatrix	2.680	g/cm3	TOP	BOTTOM
	RHOfluid	1.000	g/cm3	"	"
ZDL	DENX TRACKING	ON		"	"

HDIL PROCESSING

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (ft)	
				TOP	BOTTOM
HDIL TEMPERATURE CORRECTION	TEMP CORR SOURCE	USE RXTEMP		TOP	BOTTOM
ADAPTIVE BOREHOLE CORRECTION	ABC PROCESSING	ON		"	"
	ABC to CALCULATE	STANDOFF		"	"
	STANDOFF	1.50	in	"	"
	TOOL POSITION	ECCENTERED		"	"
	Rmud MULTIPLIER	1.000		"	"

CURVE DESCRIPTION REPORT

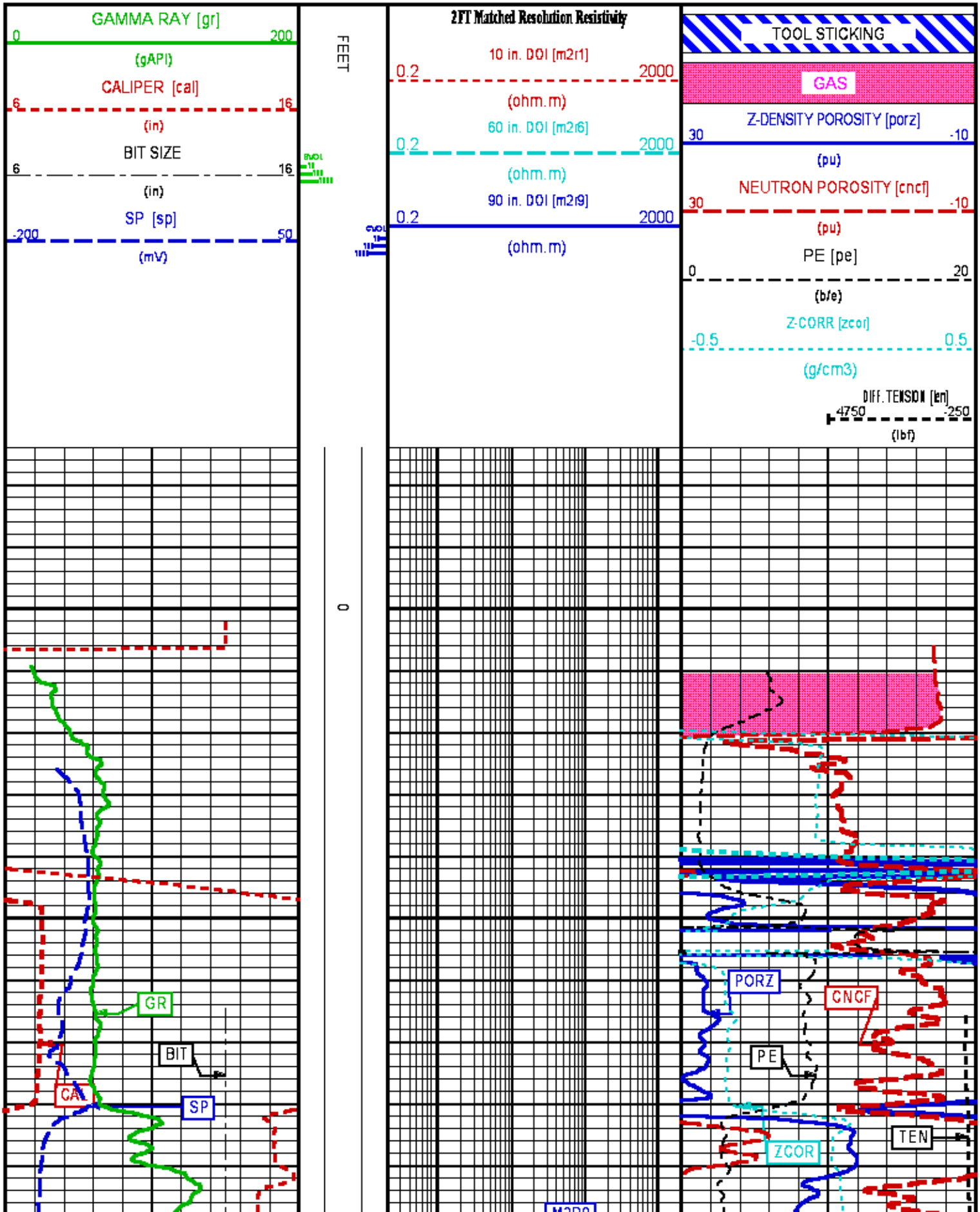
CURVE NAME	CREATION DATE	CURVE DESCRIPTION
F1:BIT	Aug 16 09:59:19 2013	BIT SIZE
F1:BVOL	Aug 16 09:59:19 2013	BOREHOLE VOLUME
F1:CAL	Aug 16 09:59:19 2013	CALIPER
F1:CNCF	Aug 16 09:59:19 2013	FIELD NORMALIZED COMPENSATED NEUTRON POROSITY
F1:CVOL	Aug 16 09:59:19 2013	CEMENT VOLUME
F1:GR	Aug 16 09:59:19 2013	GAMMA RAY
F1:M2R1	Aug 16 09:59:19 2013	VERTICAL 2-FOOT RESOLUTION MATCHED RESISTIVITY, 10-INCH DOI
F1:M2R6	Aug 16 09:59:19 2013	VERTICAL 2-FOOT RESOLUTION MATCHED RESISTIVITY, 60-INCH DOI
F1:M2R9	Aug 16 09:59:19 2013	VERTICAL 2-FOOT RESOLUTION MATCHED RESISTIVITY, 90-INCH DOI
F1:PE	Aug 16 09:59:19 2013	PHOTO ELECTRIC CROSS-SECTION
F1:PORZ	Aug 16 09:59:19 2013	POROSITY FOR SELECTABLE MATRIX
F1:SP	Aug 16 09:59:19 2013	SPONTANEOUS POTENTIAL
F1:TEN	Aug 16 09:59:19 2013	DIFFERENTIAL TENSION
F1:ZCOR	Aug 16 09:59:19 2013	DENSITY CORRECTION

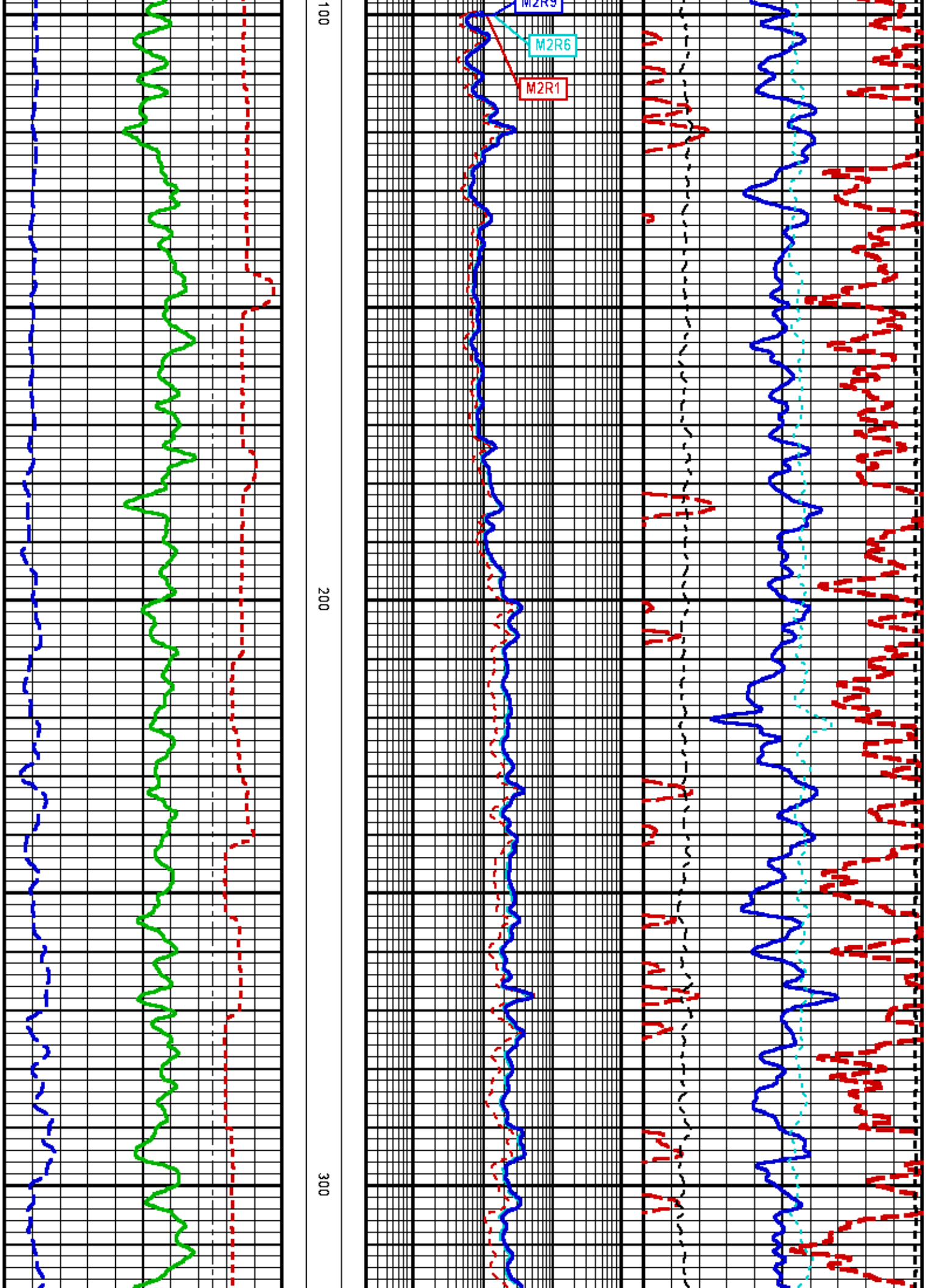
CURVE MEASURE POINT OFFSET

CURVE	OFFSET (ft)	CURVE	OFFSET (ft)	CURVE	OFFSET (ft)	CURVE	OFFSET (ft)
BIT	0.00	GR	107.25	M2R9	8.00	SP	14.00
CAL	90.00	M2R1	8.00	PE	89.25	TEN	0.00
CNCF	100.25	M2R6	8.00	PORZ	89.25	ZCOR	89.25

Presentation : **HL6670:WPX_MAIN_FINAL_RDR.fvpdf [5"/100' Scale]**
Plot Interval : **-24.5 - 5786.5 Feet**

Data File 1 : F1 : HL6670:/dat1a/625570/MAIN_R01.xtf
Created On : Aug 16 09:59:19 2013
Company : WPX ENERGY INC
Well : STRAIT SG 341-22
Field : GRAND VALLEY
File Interval : -24.5 - 5786.5 Feet
OCT : nu779x

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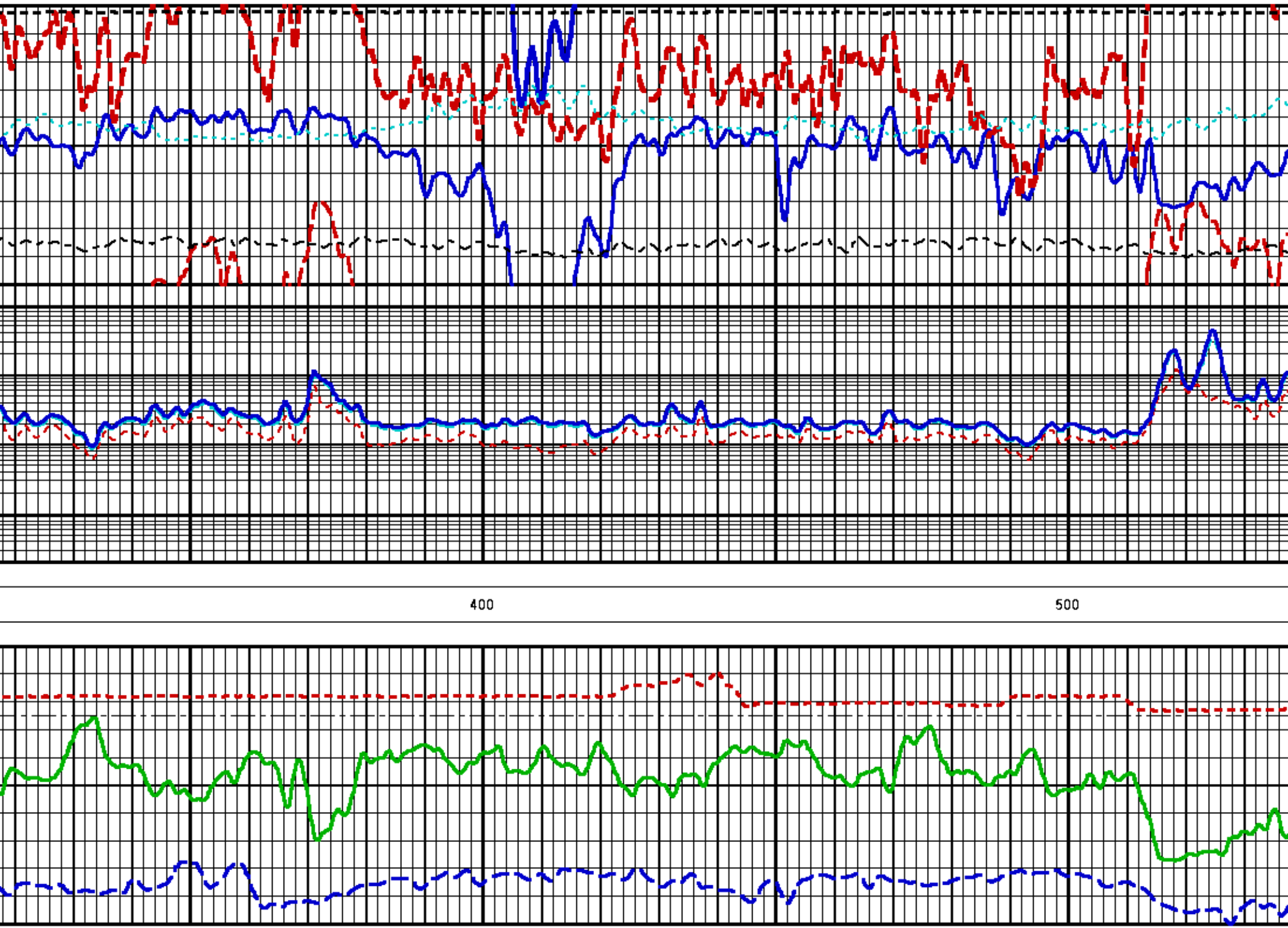
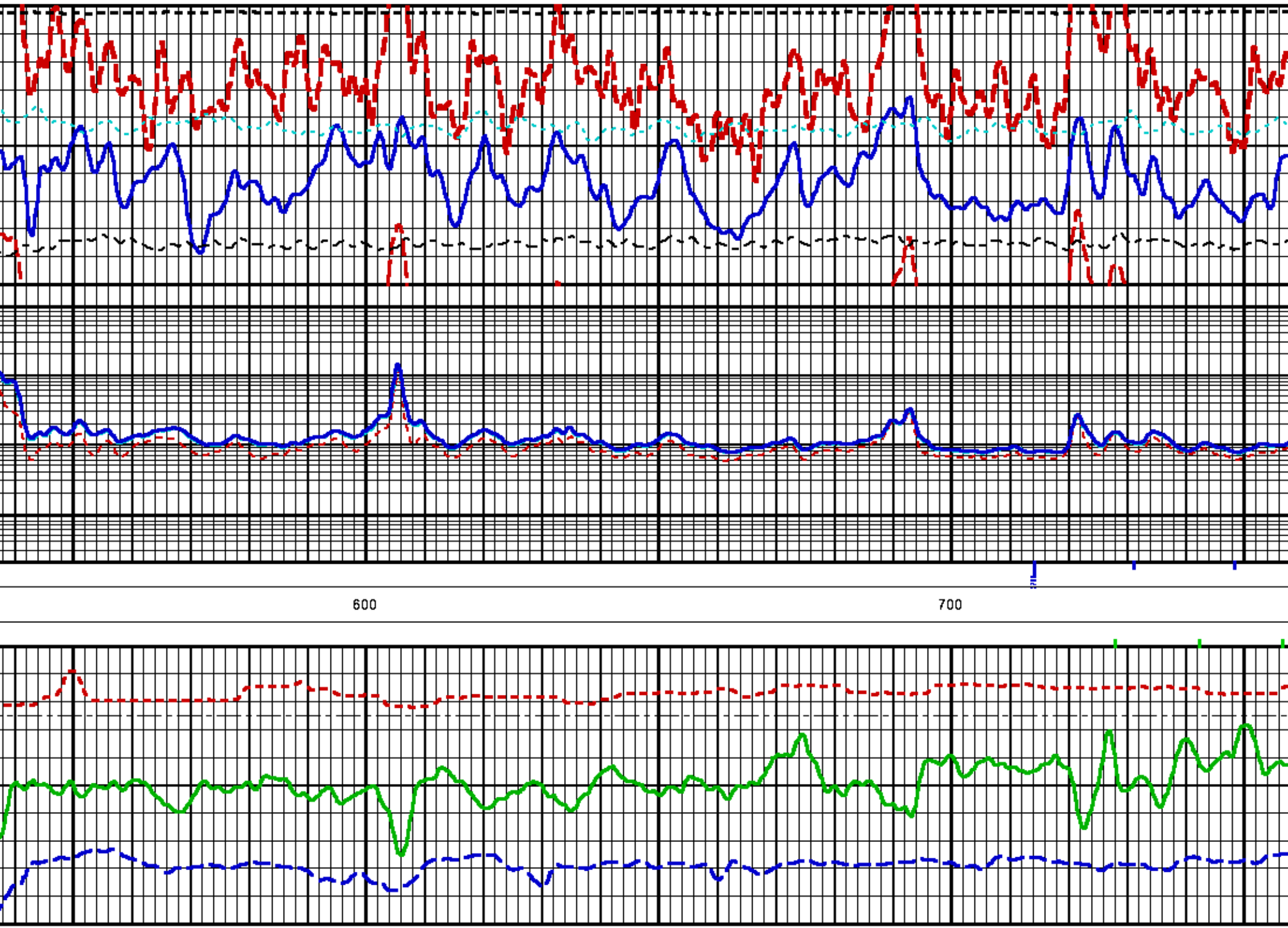
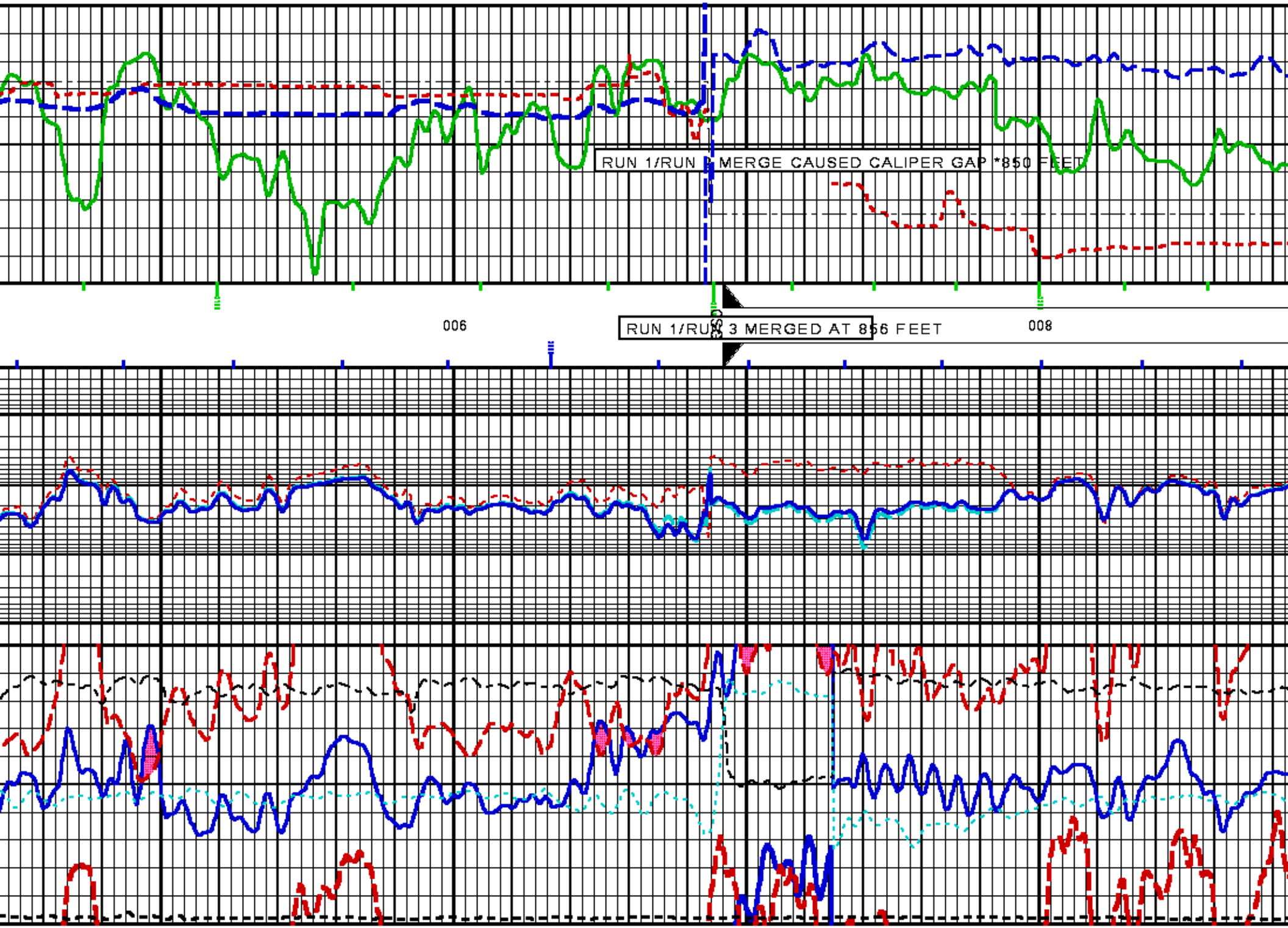
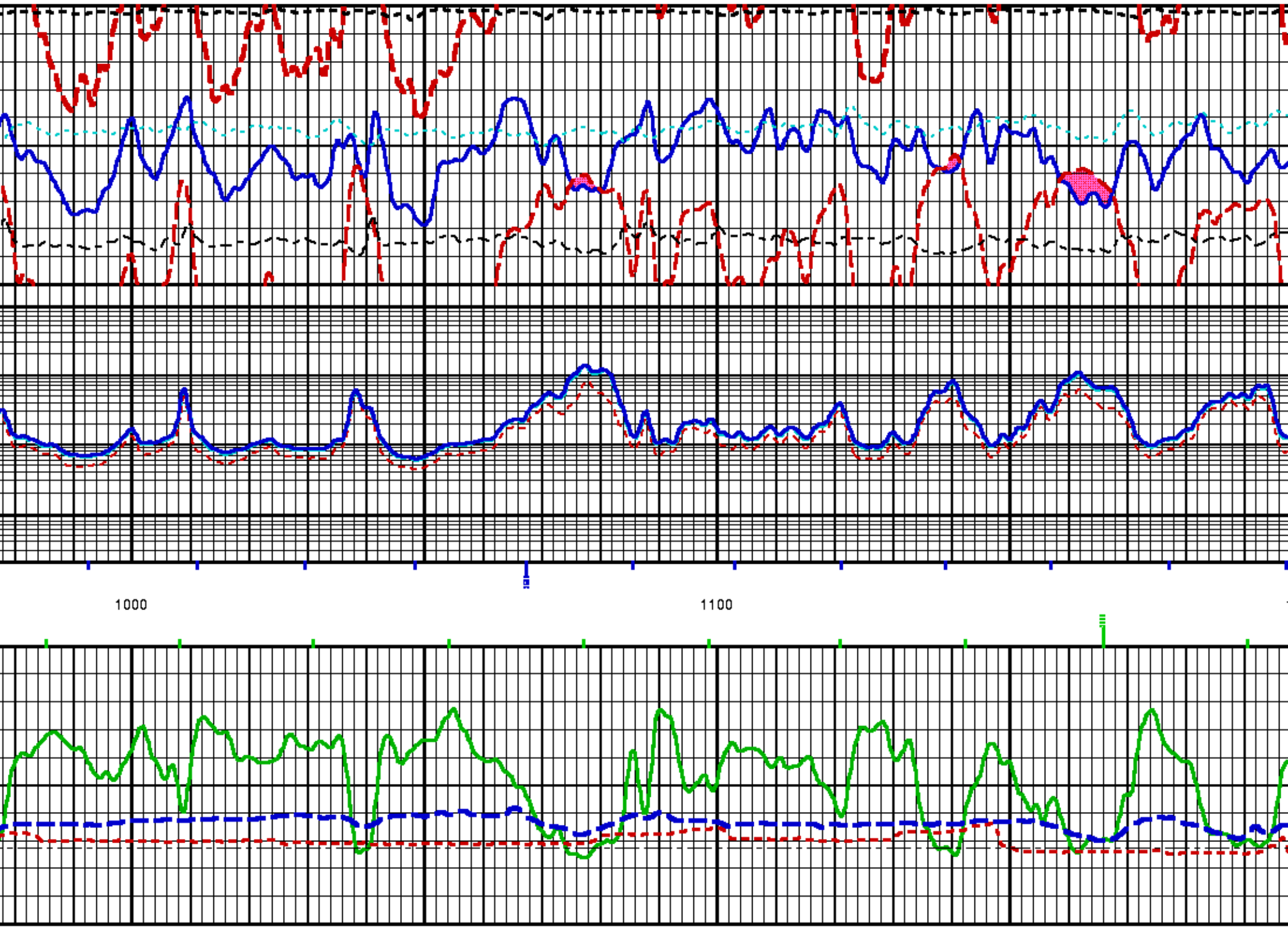
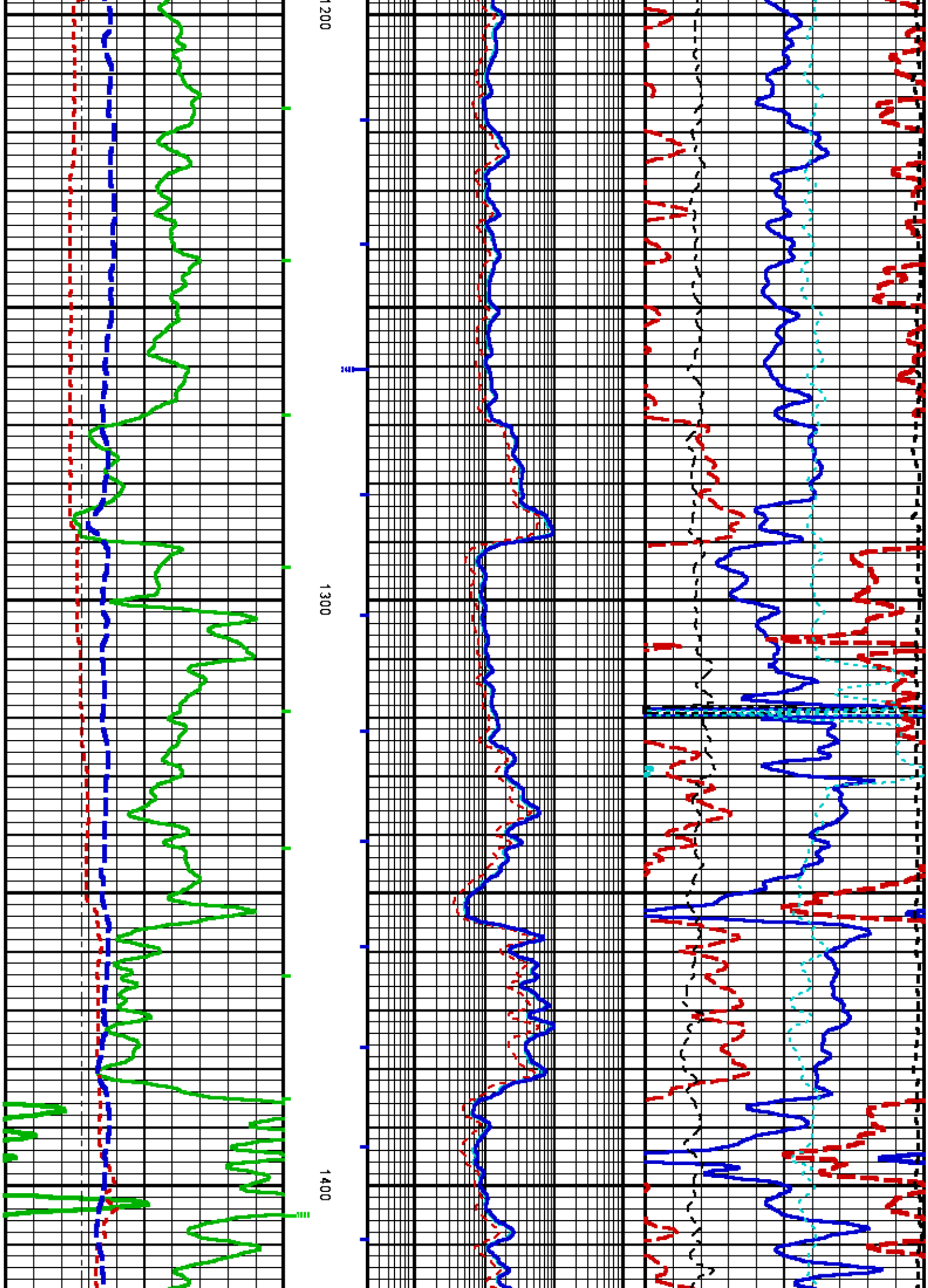
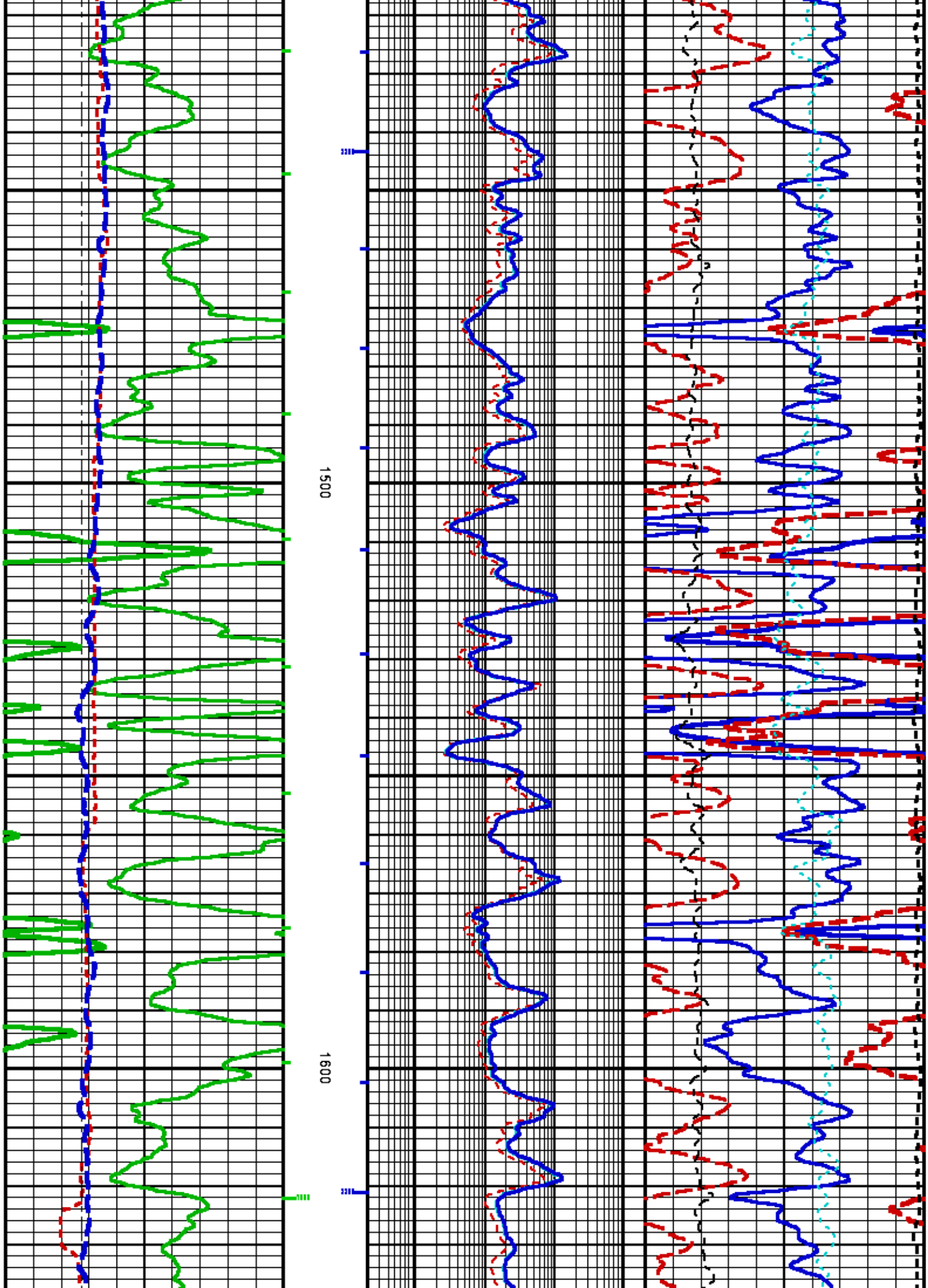

400
500

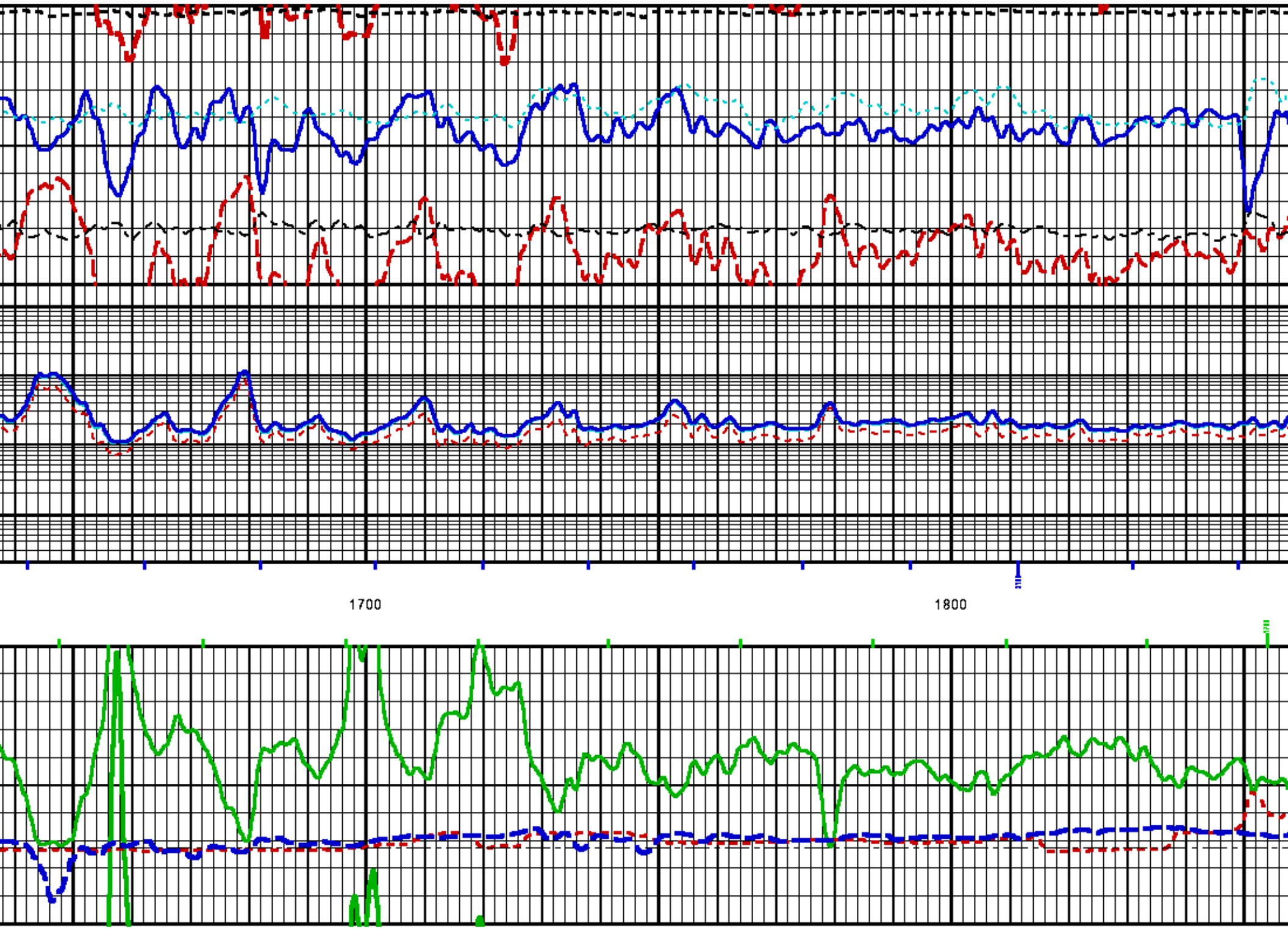

600
700

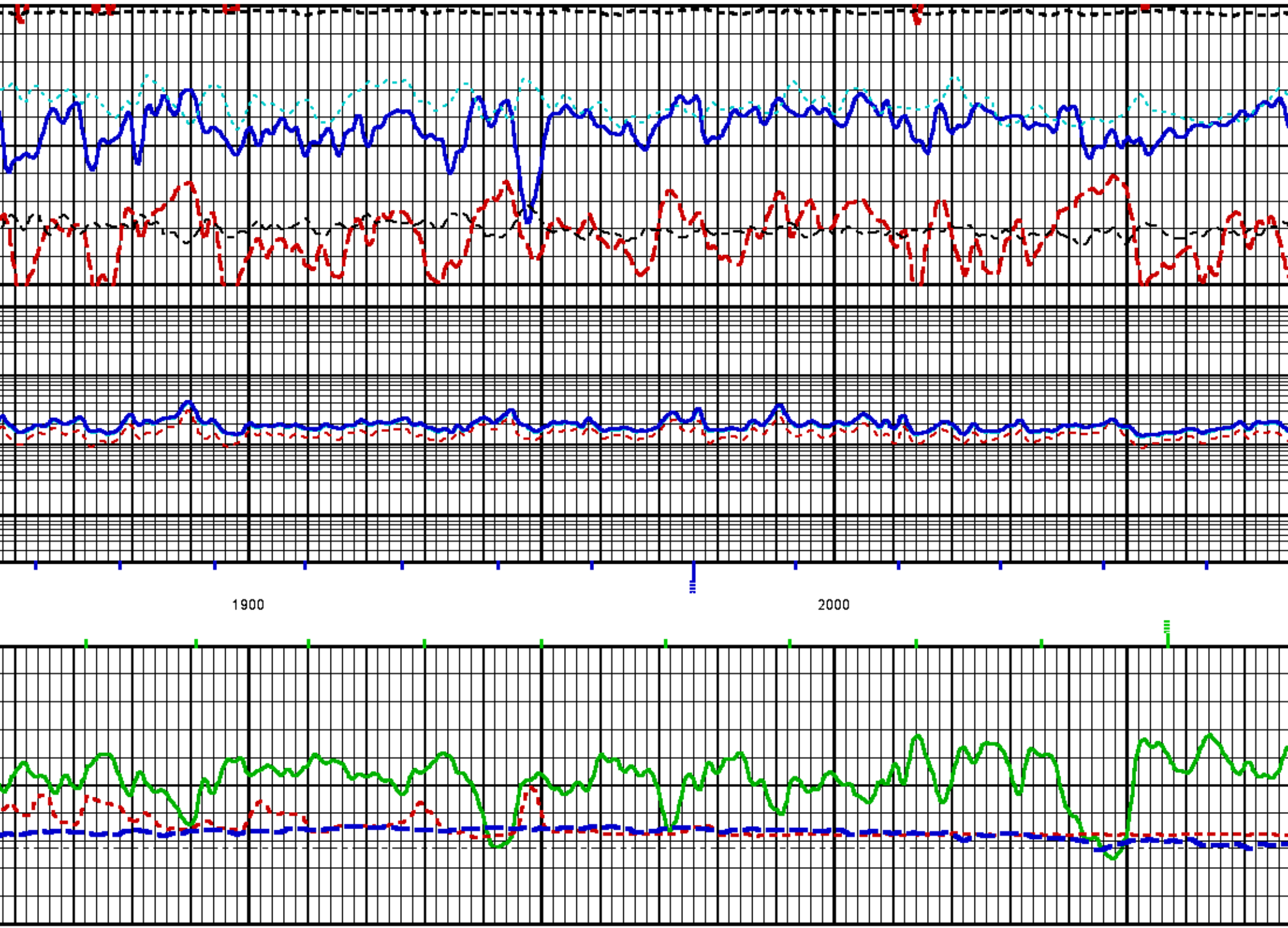

RUN 1/RUN 2 MERGE CAUSED CALIPER GAP *850 FEET
006
RUN 1/RUN 3 MERGED AT 856 FEET
008

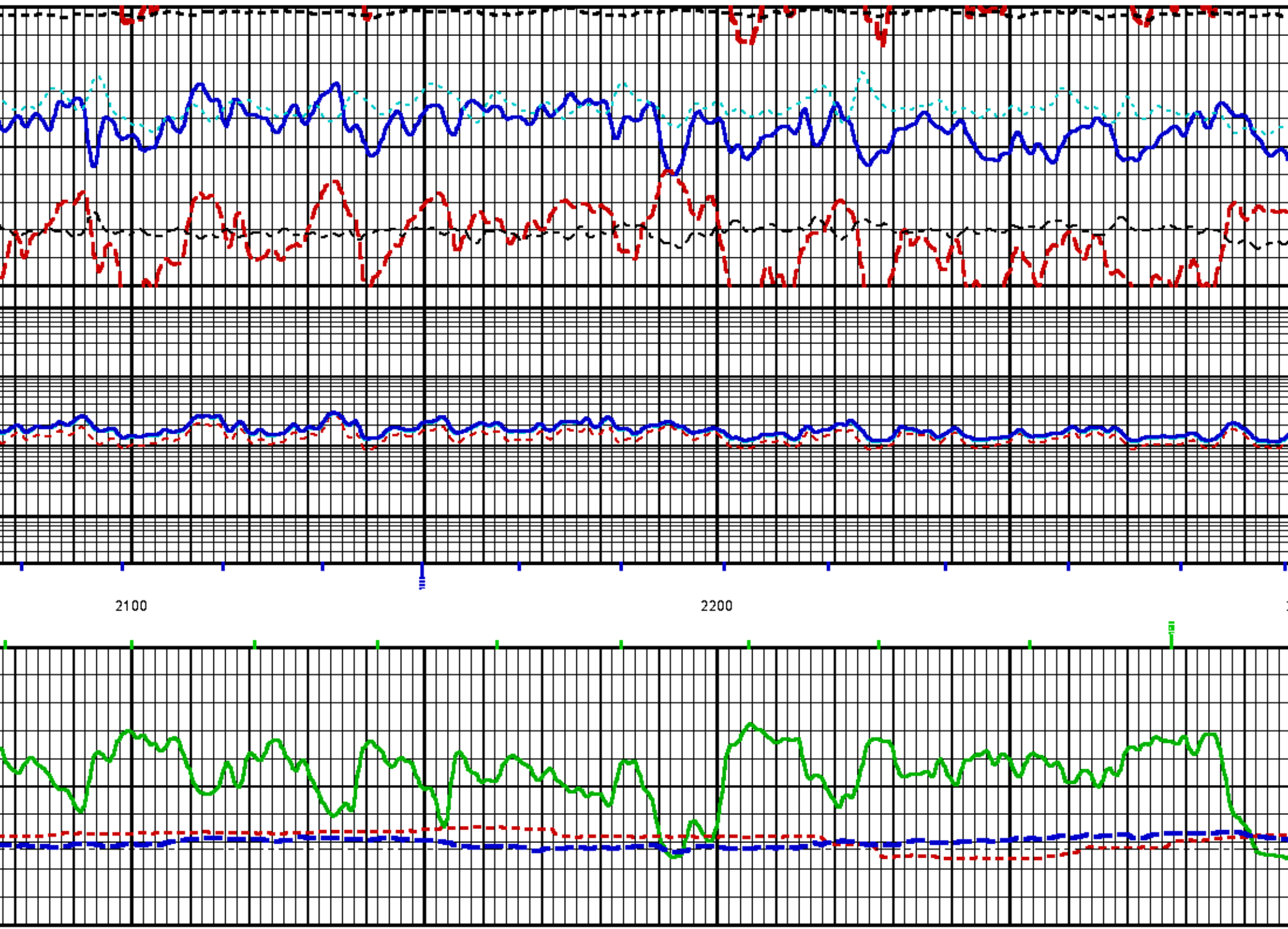

1000
1100

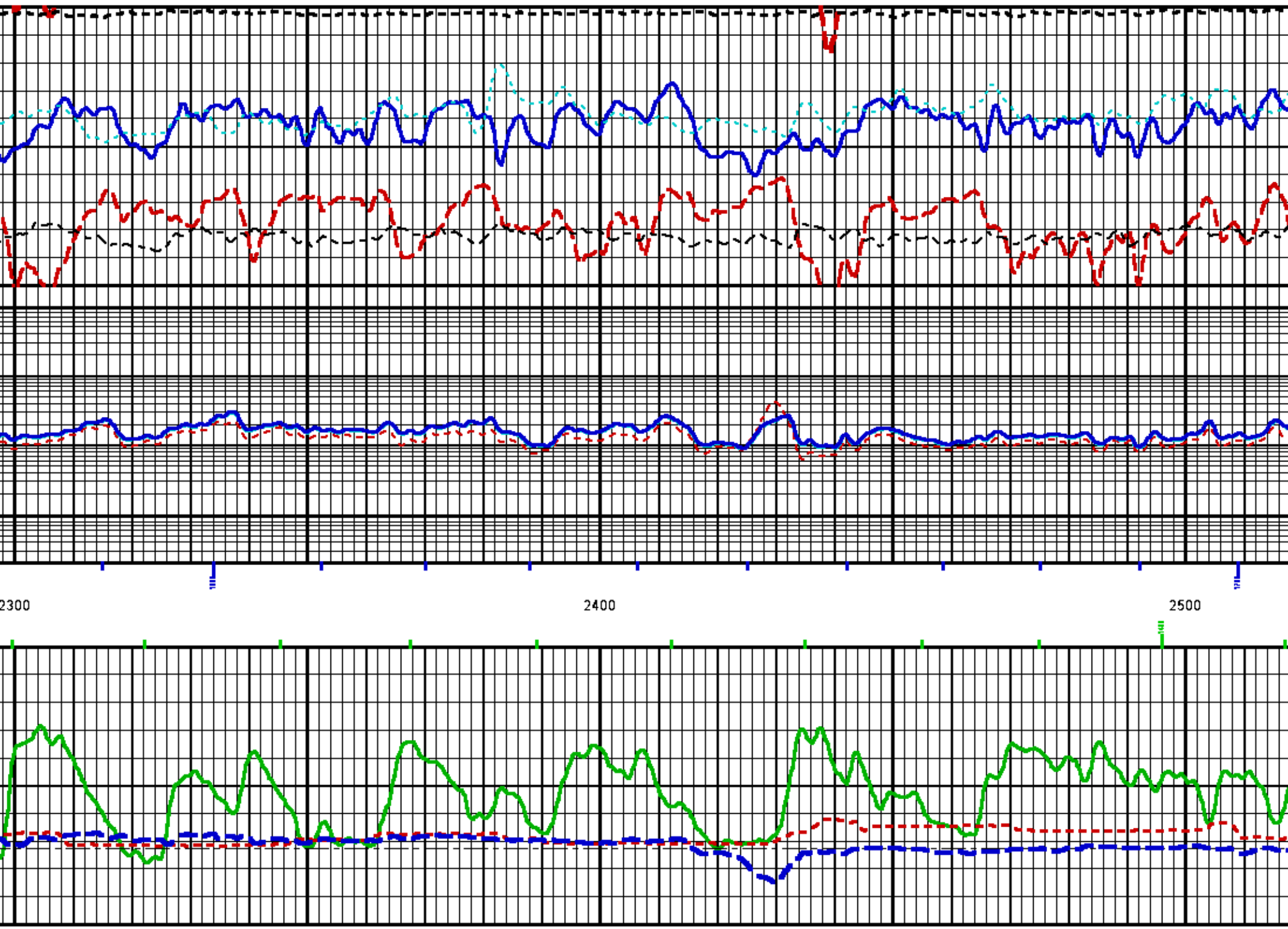

1200
1300
1400

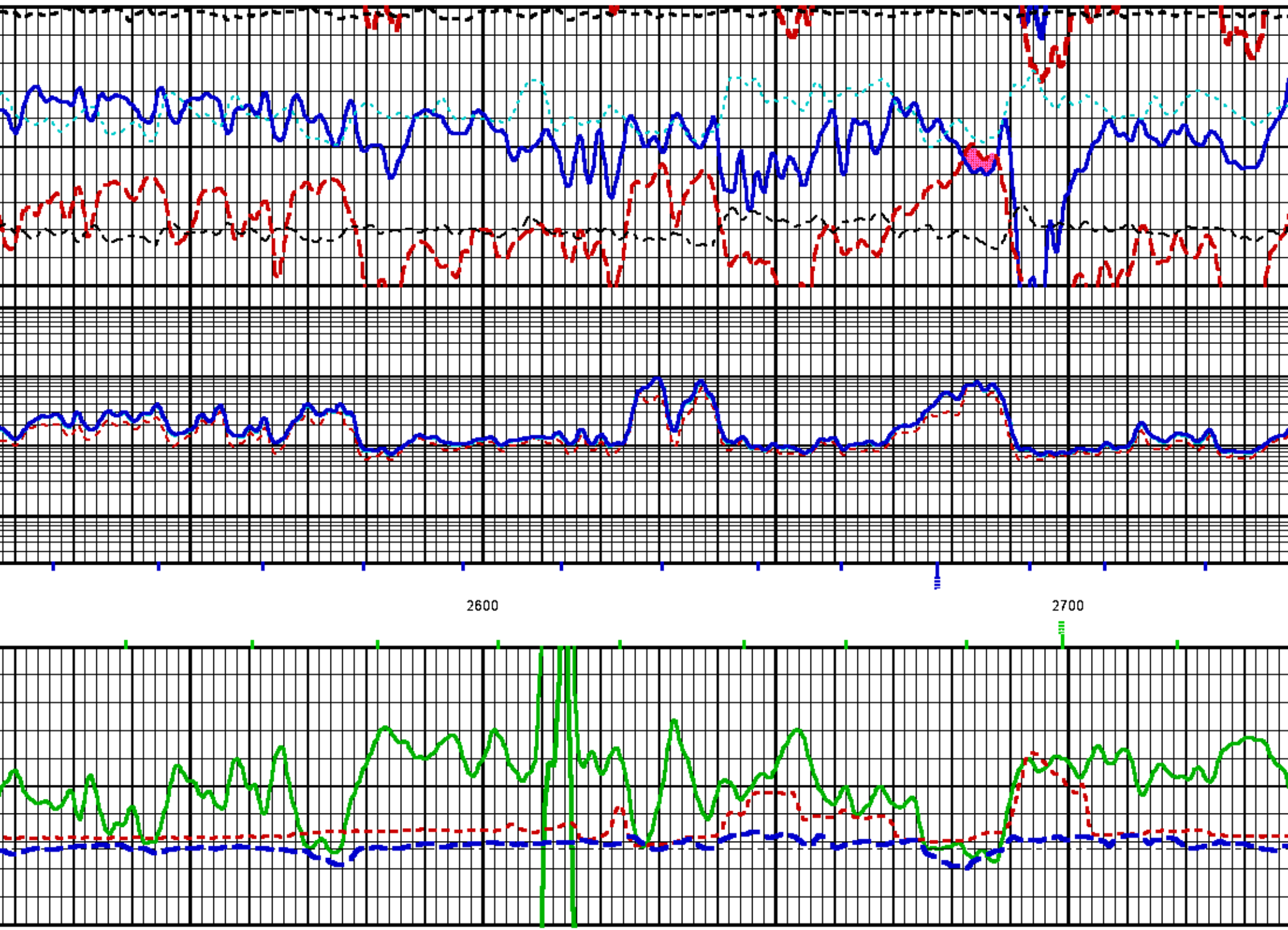

1500
1600

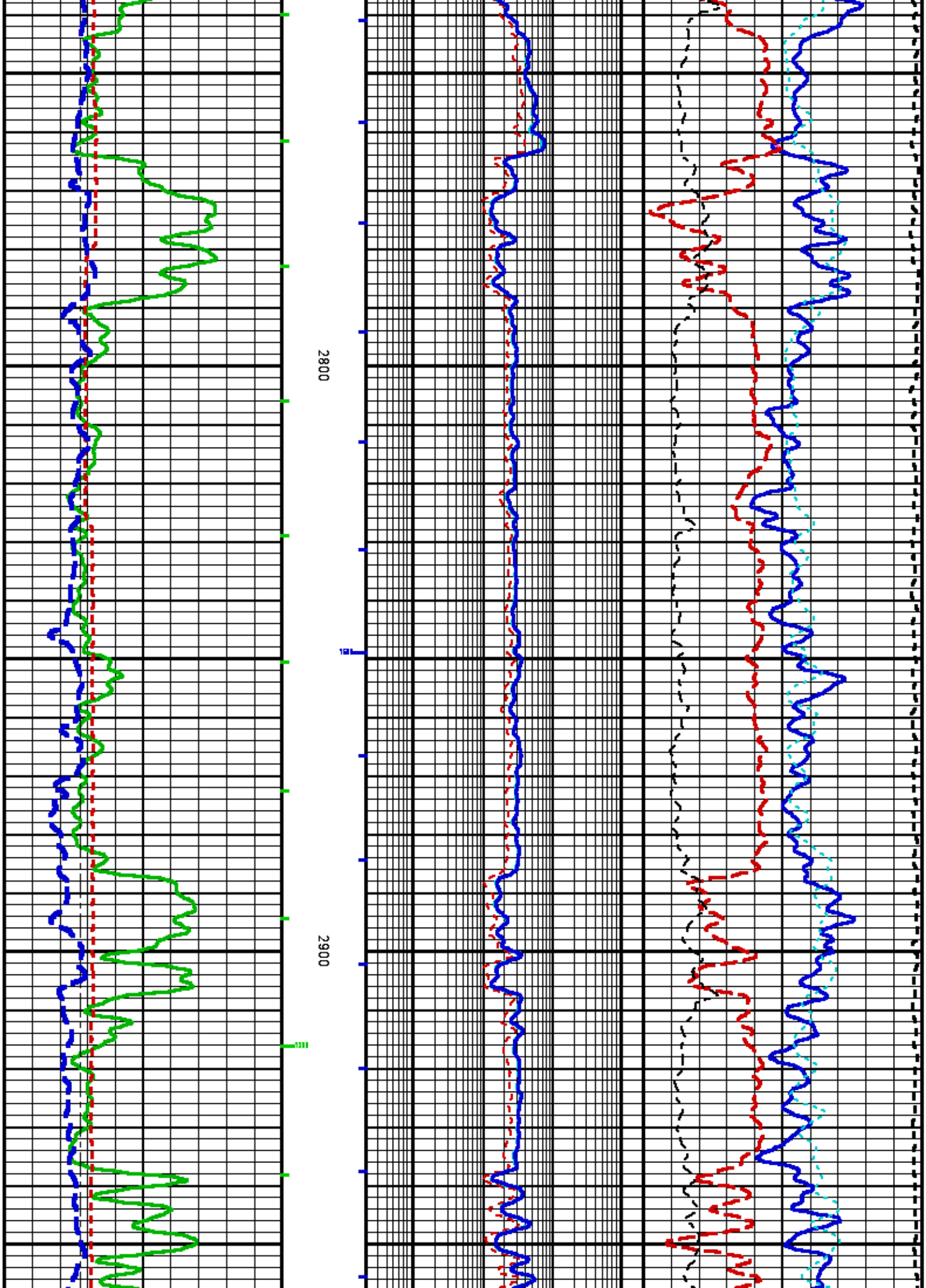

1700
1800

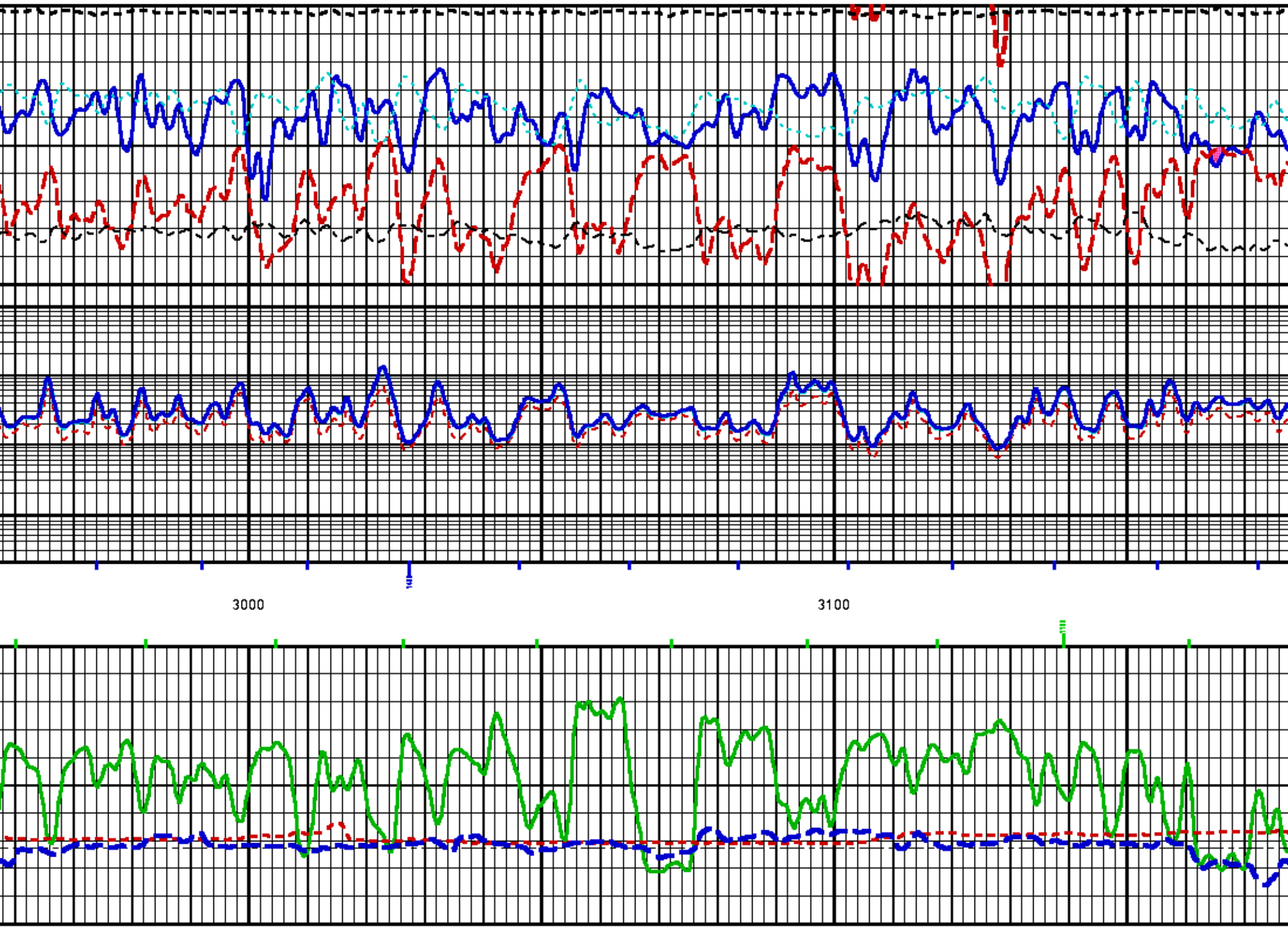

1900
2000

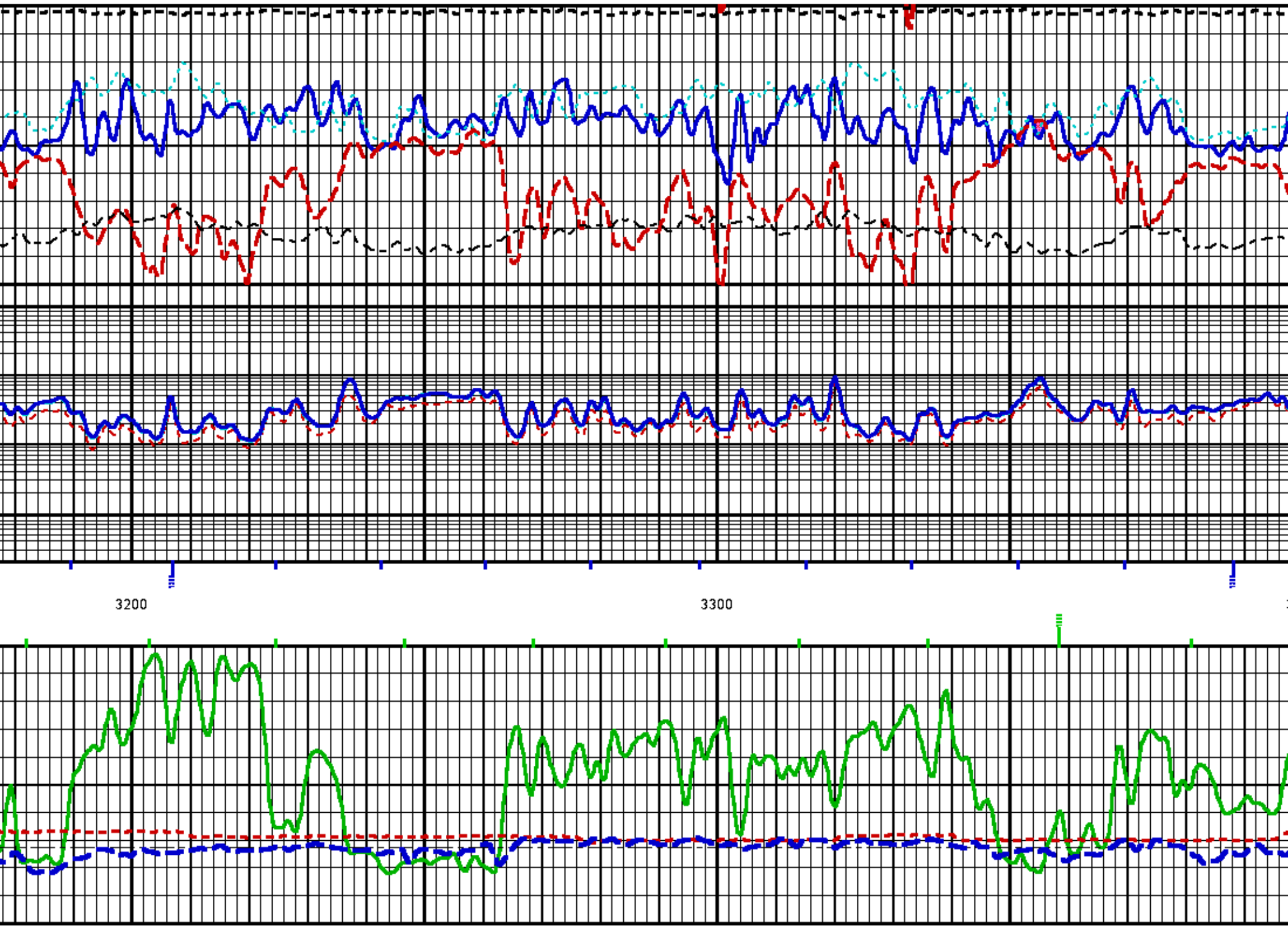

2100
2200

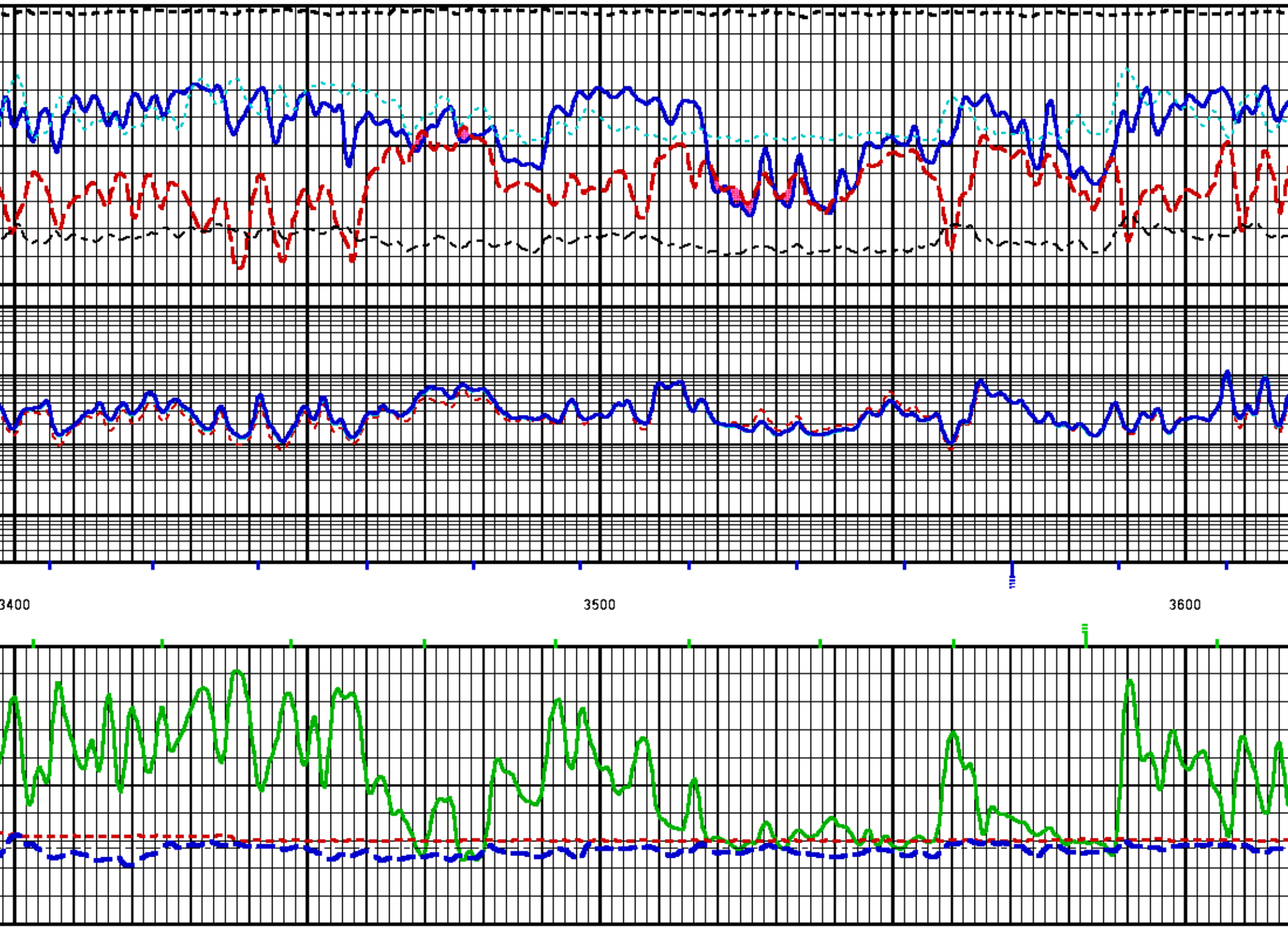

2300
2400
2500

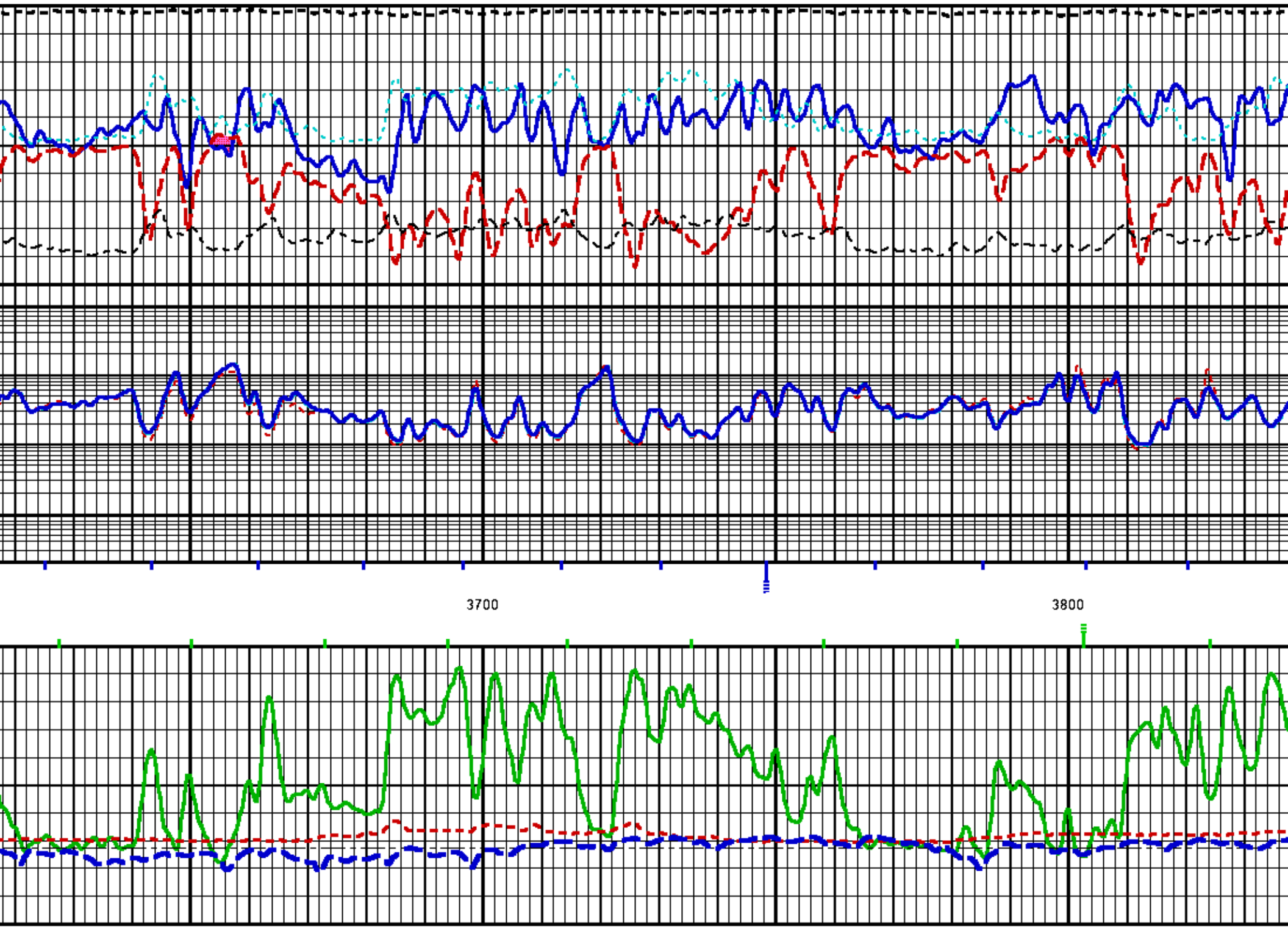

2600
2700

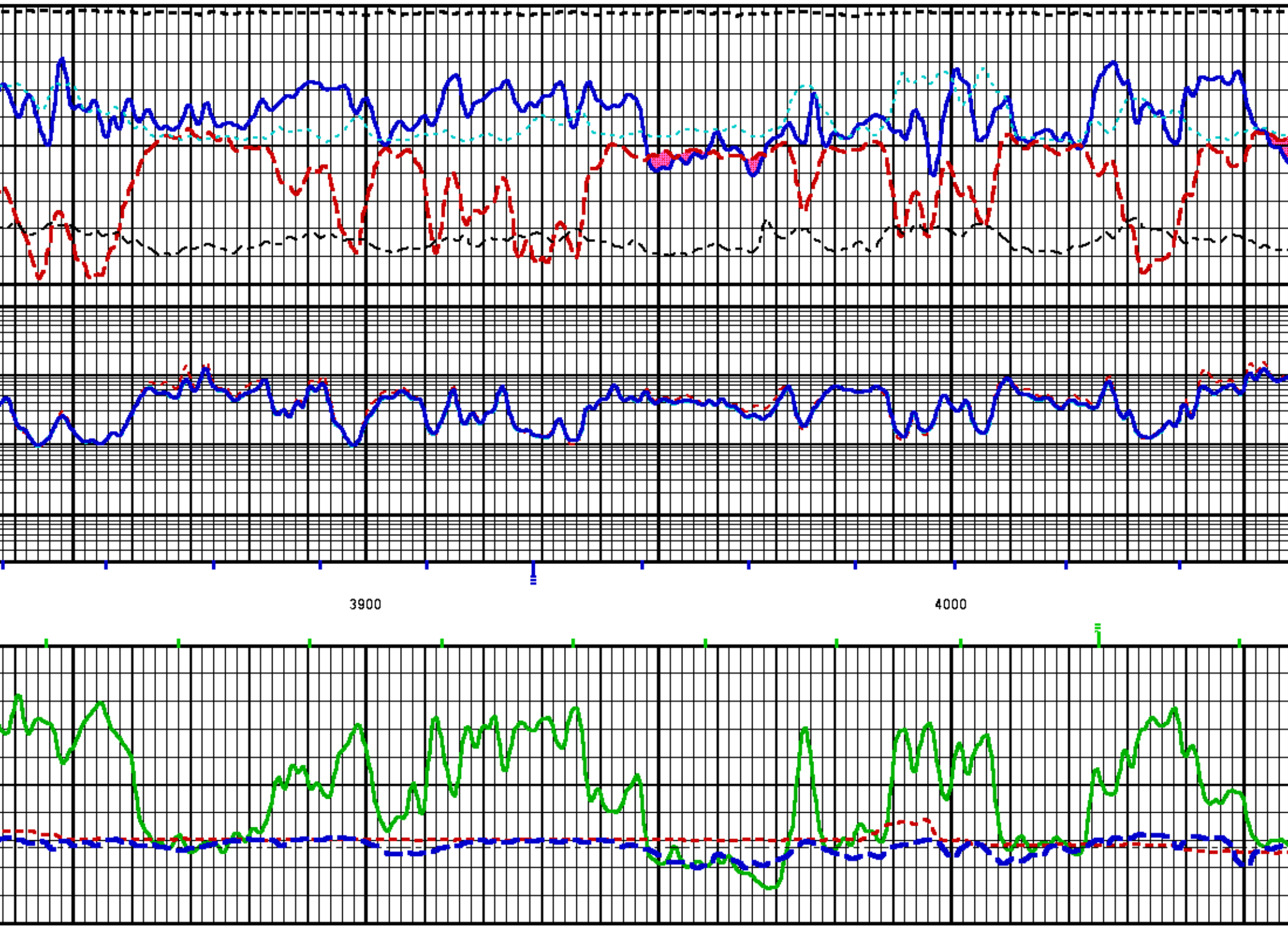

2800
2900

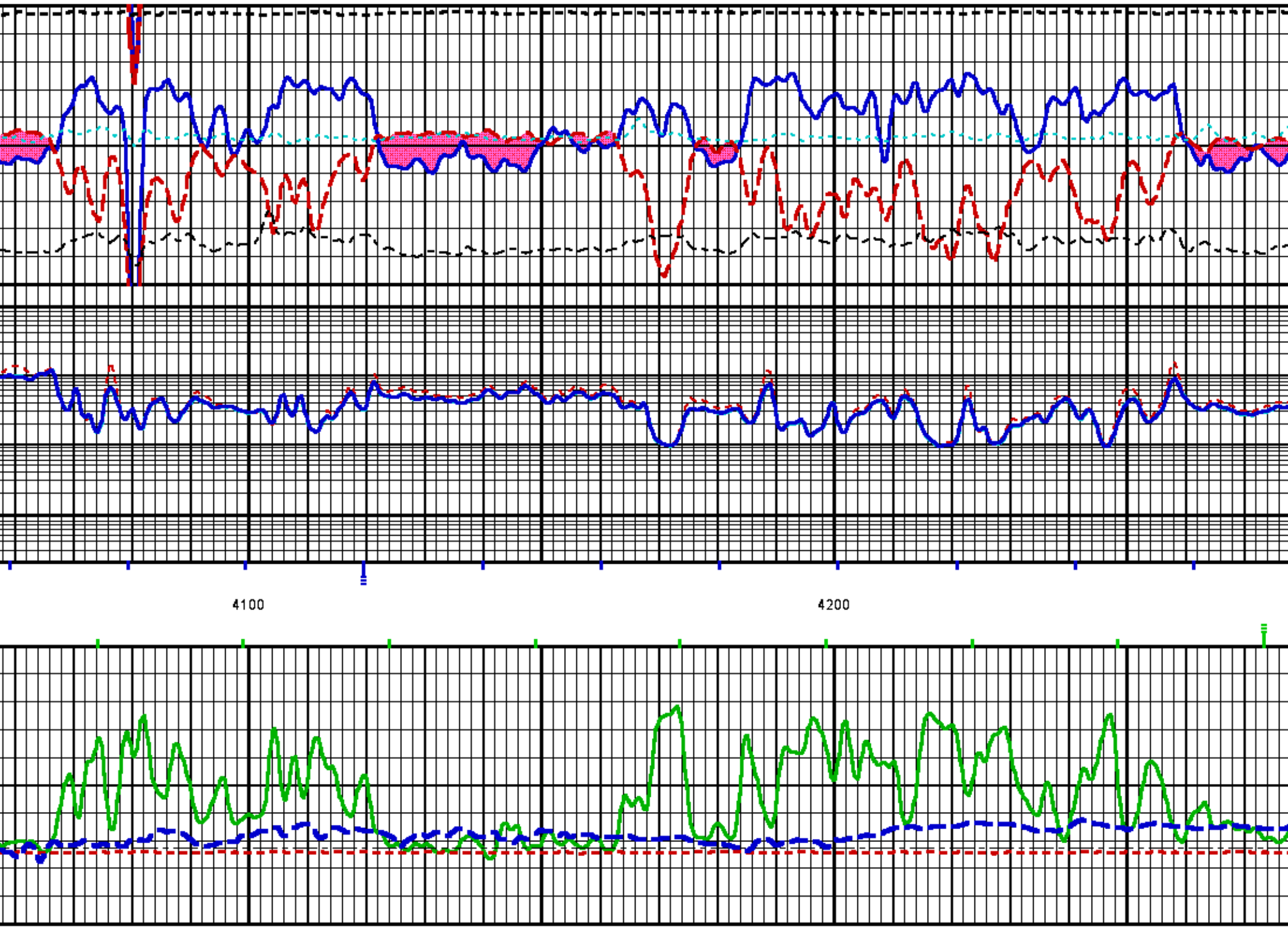

3000
3100

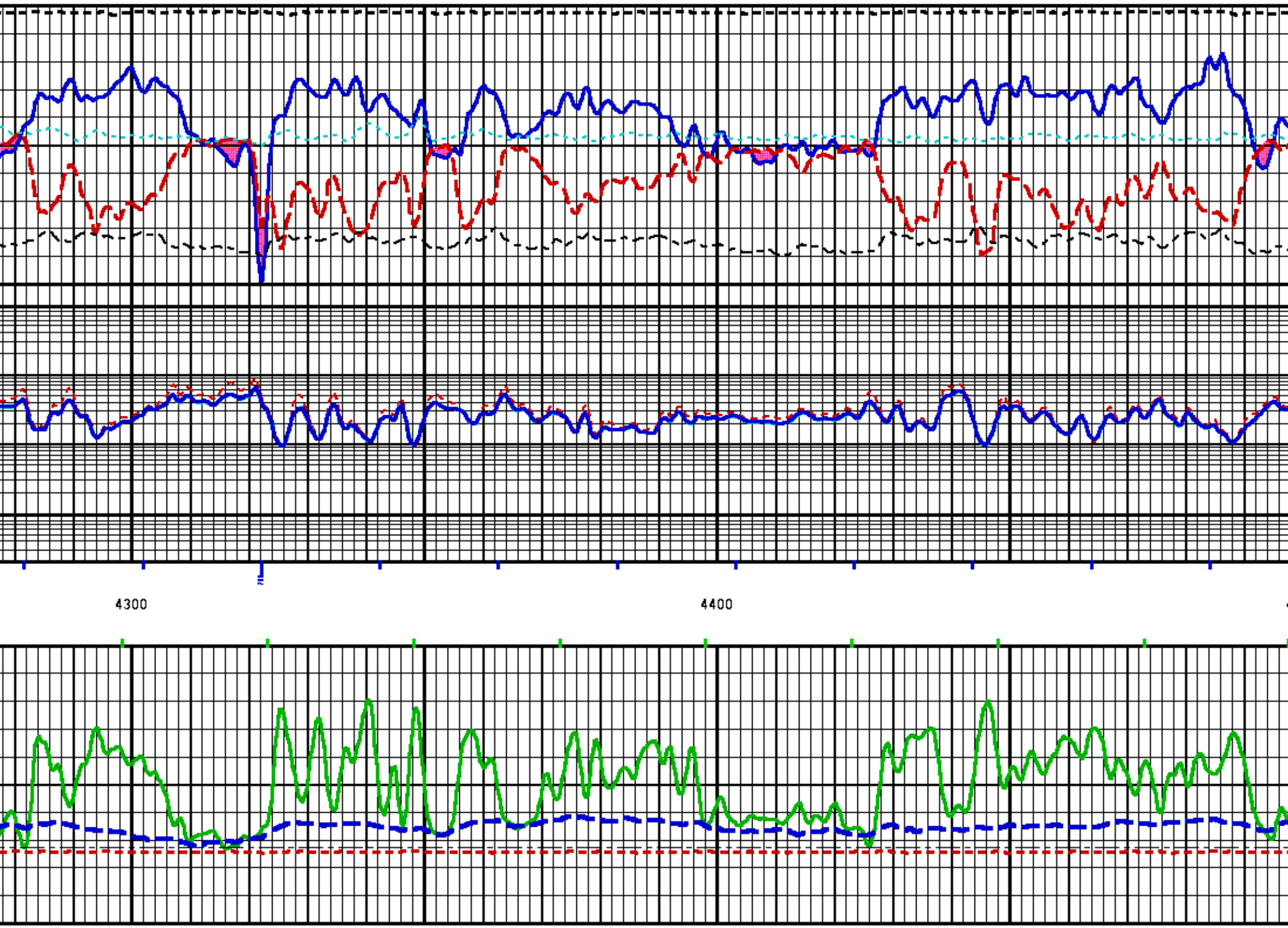

3200
3300

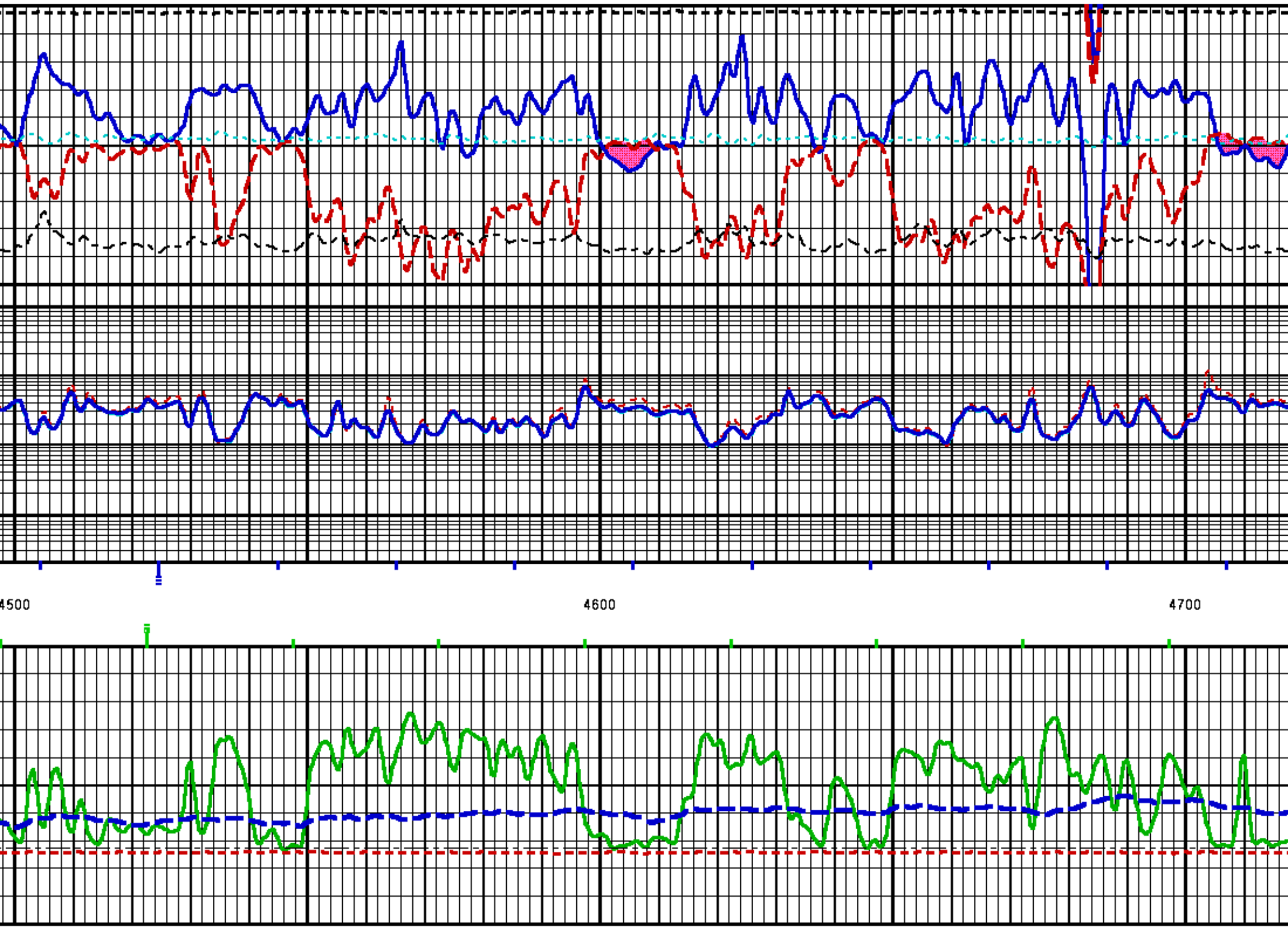

3400
3500
3600

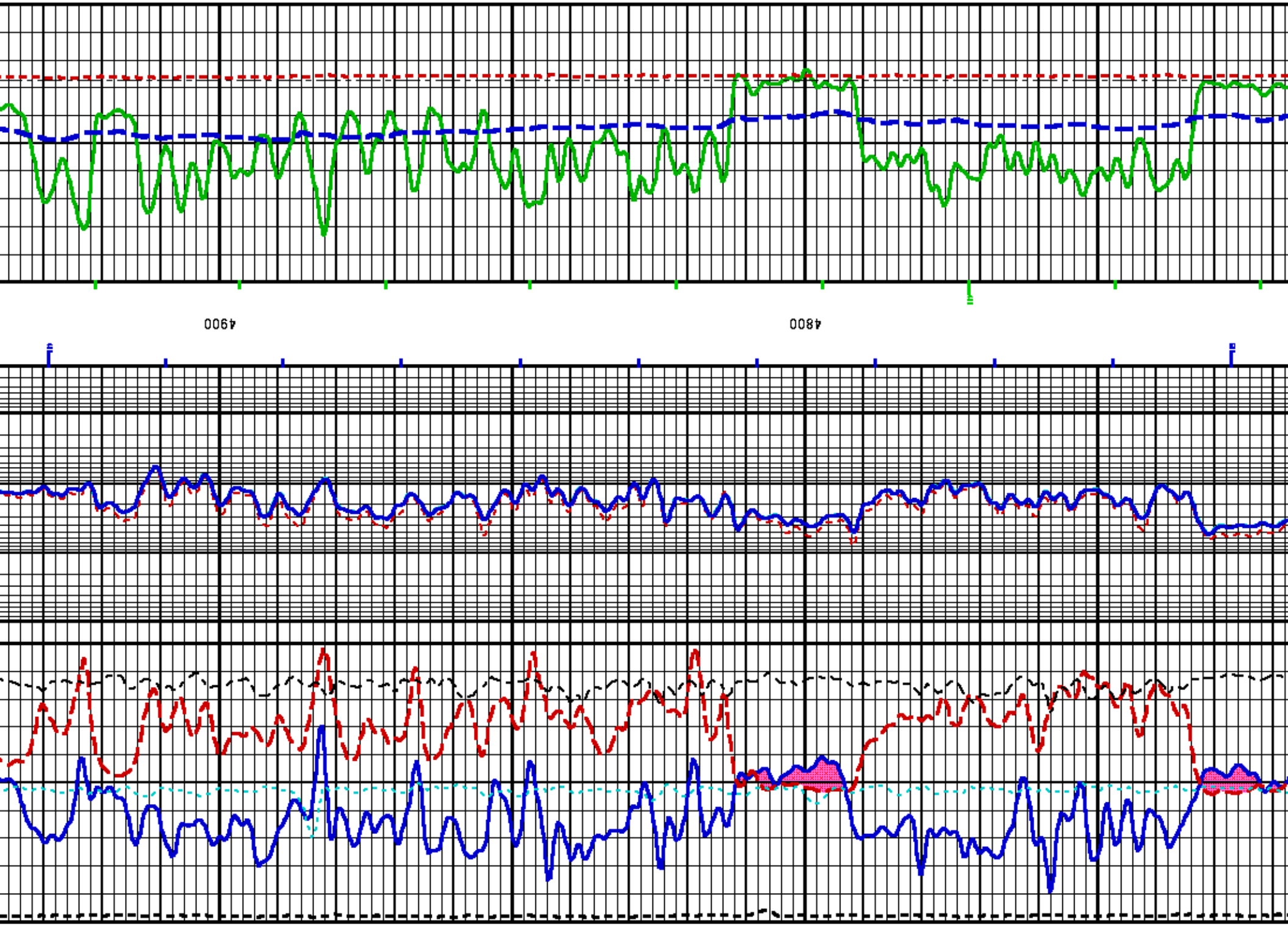

3700
3800


3900
4000

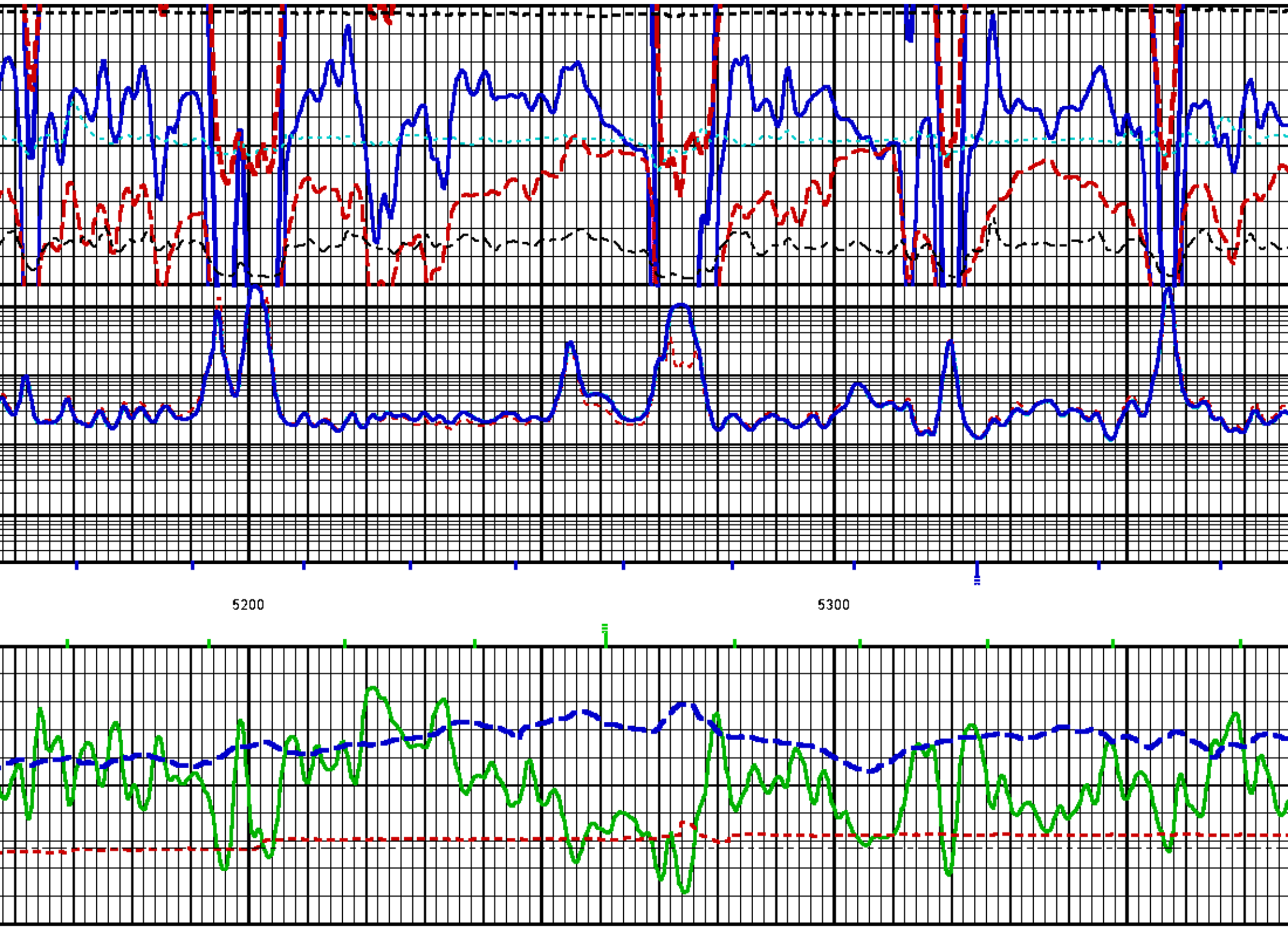

4100
4200

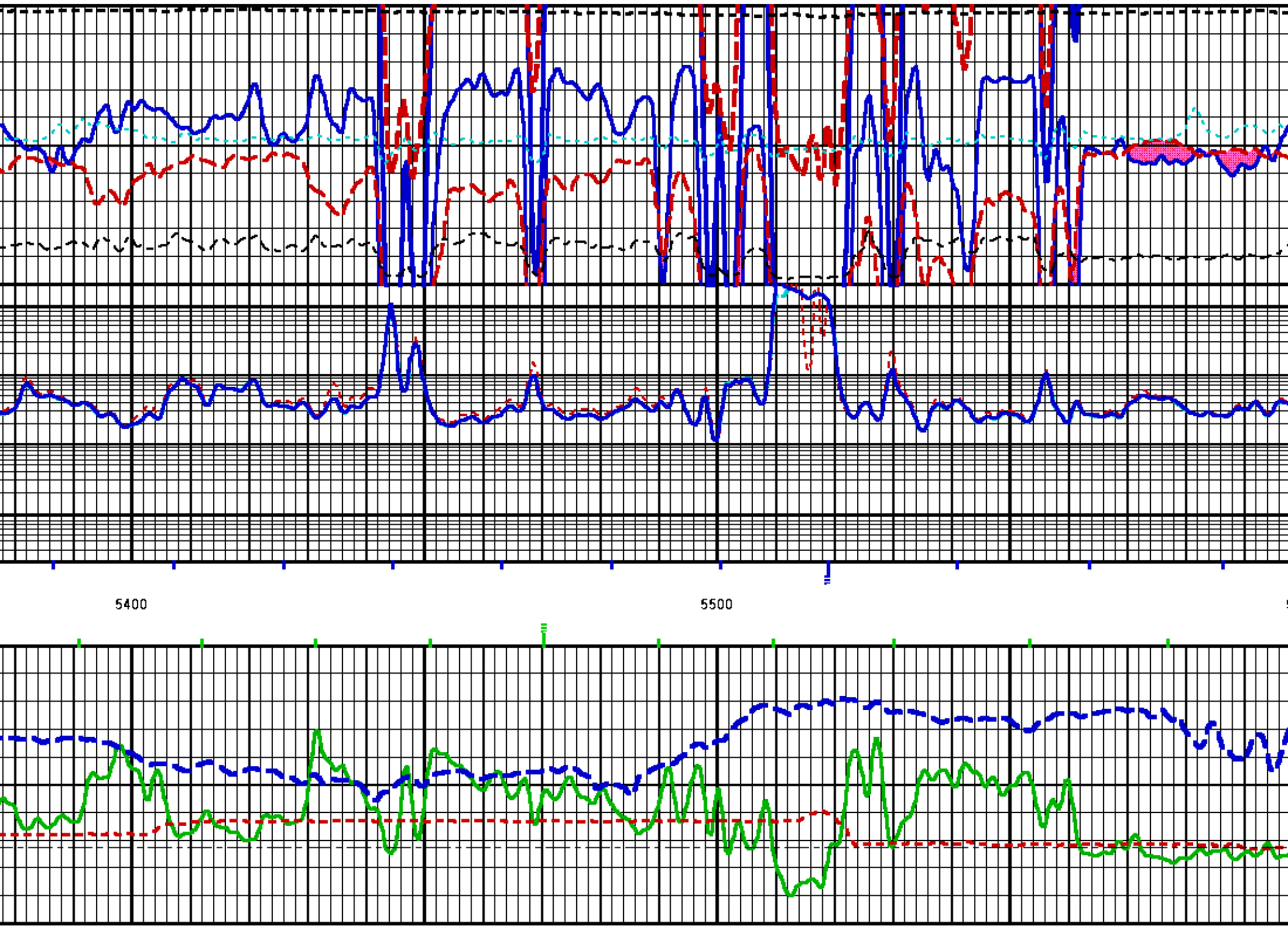

4300
4400

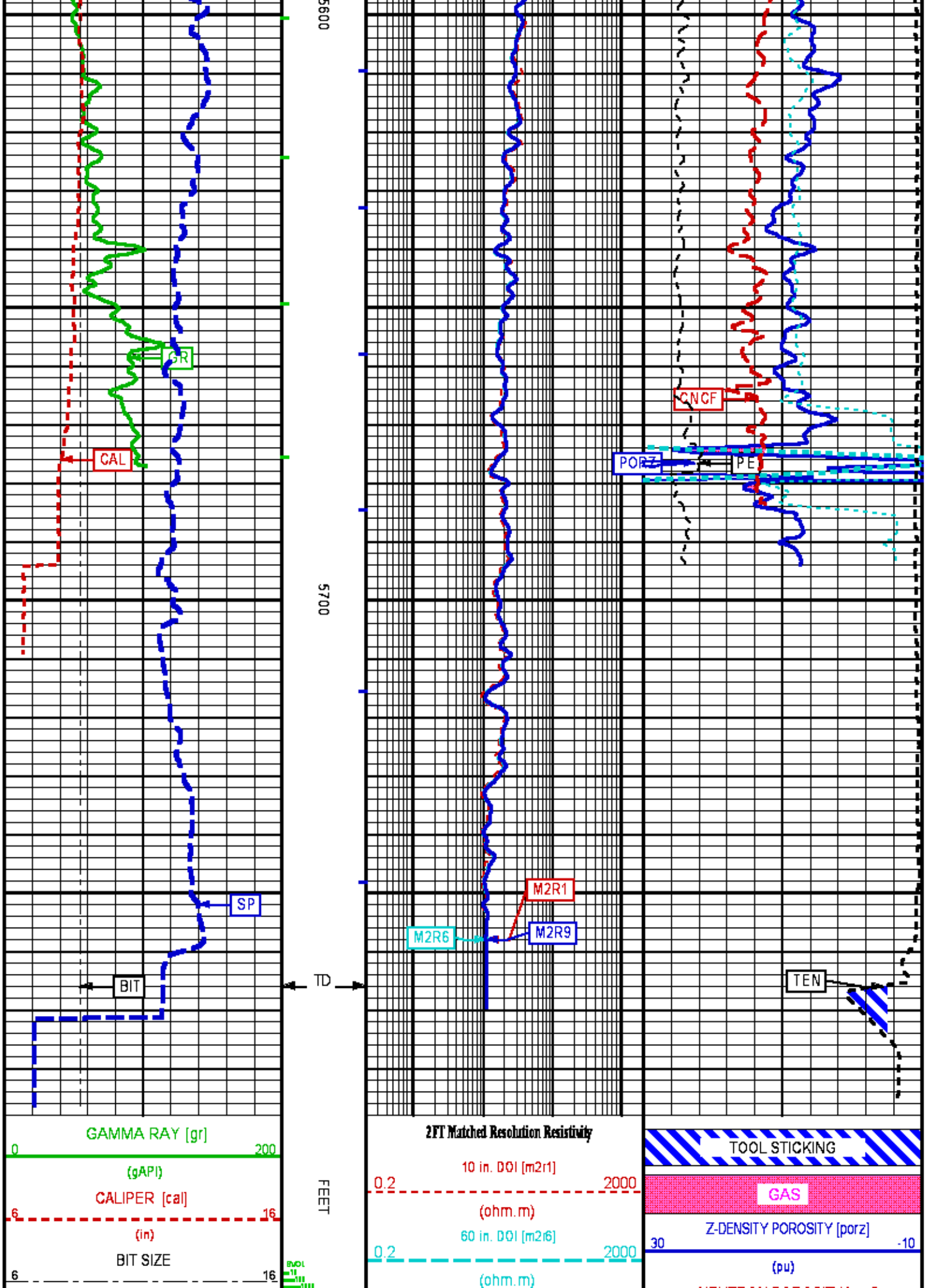

4500
4600
4700

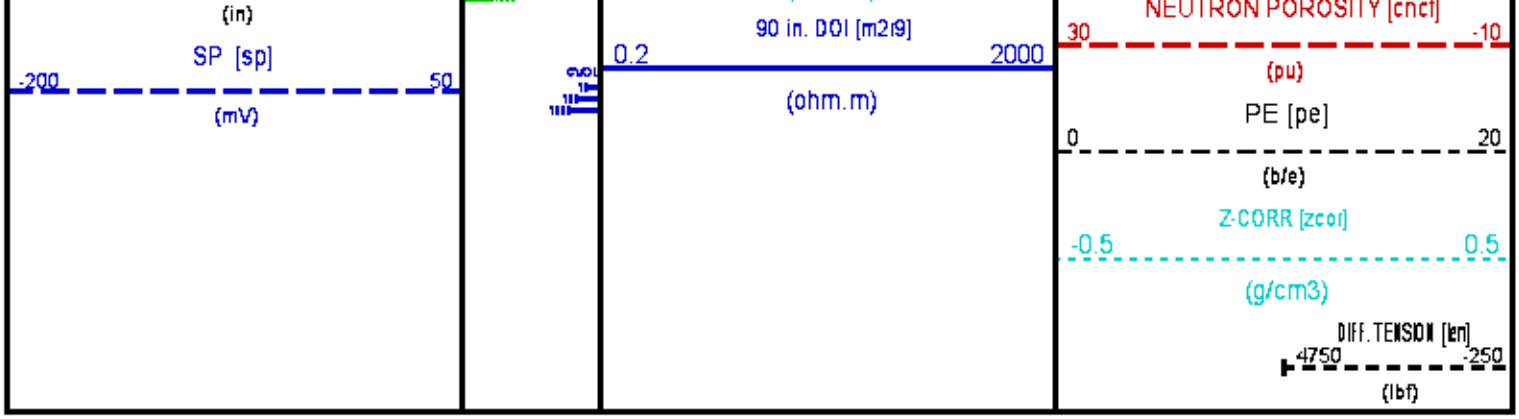

4900
4800

5000
5100


5200
5300


5400
5500


5600
5700
FEET
GR
CAL
SP
BIT
TD
M2R1
M2R6
M2R9
CNCF
PORZ
PE
TEN
GAMMA RAY [gr]
0
200
(gAPI)
CALIPER [cal]
6
16
(in)
BIT SIZE
6
16
2FT Matched Resolution Resistivity
10 in. DOI [m2r1]
0.2
2000
(ohm.m)
60 in. DOI [m2r6]
0.2
2000
(ohm.m)
TOOL STICKING
GAS
Z-DENSITY POROSITY [porz]
30
-10
(pu)



REPEAT LOG

ECLIPS 6.2i ECLIPS General Release Rel 6.2i Wed Jun 12 12:21:40 CDT 2013
Patches: 1

Plotted: Fri Aug 16 14:19:13 2013

PARAMETER AND FILTER SUMMARY REPORT

File: /dat1a/625570/REPEAT_R01.prm
LOGGING MODE: DEPTH DIRECTION: UP
TOP DEPTH: 753.000 ft BOTTOM DEPTH: 1223.750 ft

SYMMETRIC FILTER

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (ft)	
				TOP	BOTTOM
TTRM	FILTER ()	medium (1)			
	FILTER (.h)	medium (1)		"	"
	FILTER (.i)	medium (1)		"	"
Y AXIS CALIPER	FILTER ()	medium (1)		"	"
TENSION	FILTER ()	medium (1)		"	"
GR	FILTER ()	medium (1)		"	"
CN	FILTER ()	medium (1)		"	"
CALIPER	FILTER ()	medium (1)		"	"
	FILTER (.h)	medium (1)		"	"
	FILTER (.i)	medium (1)		"	"
ZDL MED RES	FILTER (hrd1*)	medium		"	"
	FILTER (hrd1s*)	medium		"	"
	FILTER (hrd2*)	medium		"	"
	FILTER (hrd2s*)	medium		"	"
	FILTER (soft*)	medium		"	"
SP-SPDH	FILTER ()	medium (1)		"	"

BOREHOLE & CEMENT

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (ft)	
				TOP	BOTTOM
CASING - BOREHOLE & CEMENT VOLUME	CASING O.D.	4.500	in		
	CASING THICKNESS	0.000	in	"	"
BIT SIZE	BIT SIZE	8.750	in	"	"
MUD SAMPLE RESISTIVITY	MUD SAMPLE TEMP	80.0	degF	"	"
	MUD SAMPLE RES	1.090	ohm.m	"	"
BOREHOLE TEMP from GRADIENT	Known BH REF TEMP	77.0	degF	"	"
	at BH REF DEPTH	0.0	ft	"	"
	with TEMP GRADIENT	1.200	0.01 degF/ft	"	"
BOREHOLE CORR DIAMETER SOURCE	CALIPER/FIXED DIA. (cnbh*)	USE CALIPER		"	"
	CALIPER/FIXED DIA. (mbh*)	USE CALIPER		"	"
BOREHOLE CORR DIAMETER	FIXED DIAMETER (cnbh*)	8.750	in	"	"
	FIXED DIAMETER (mbh*)	8.750	in	"	"

BH MUD RESISTIVITY SOURCE	RMUD SOURCE (HDIL)	TOOL MEASURED		"	"

CN PROCESSING

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (ft)	
2446 CN MATRIX	2446 MATRIX	SANDSTONE		TOP	BOTTOM
CN SALINITY CORRECTION	SALINITY	1550	ppm	"	"
CN TOOL STANDOFF	ENABLE STANDOFF CORR	OFF		"	"
	STANDOFF AMOUNT	0.00	in	"	"
CN CASING & CEMENT CORRECTION	CORRECTION	OFF		"	"
	BIT SIZE BEHIND CSNG	8.750	in	"	"

ZDL PROCESSING

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (ft)	
DENSITY POROSITY	RHOmatrix	2.680	g/cm3	TOP	BOTTOM
	RHOfluid	1.000	g/cm3	"	"
ZDL	DENX TRACKING	ON		"	"

HDIL PROCESSING

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (ft)	
HDIL TEMPERATURE CORRECTION	TEMP CORR SOURCE	USE RXTEMP		TOP	BOTTOM
ADAPTIVE BOREHOLE CORRECTION	ABC PROCESSING	ON		"	"
	ABC to CALCULATE	STANDOFF		"	"
	STANDOFF	1.50	in	"	"
	TOOL POSITION	ECCENTERED		"	"
	Rmud MULTIPLIER	1.000		"	"

CURVE DESCRIPTION REPORT

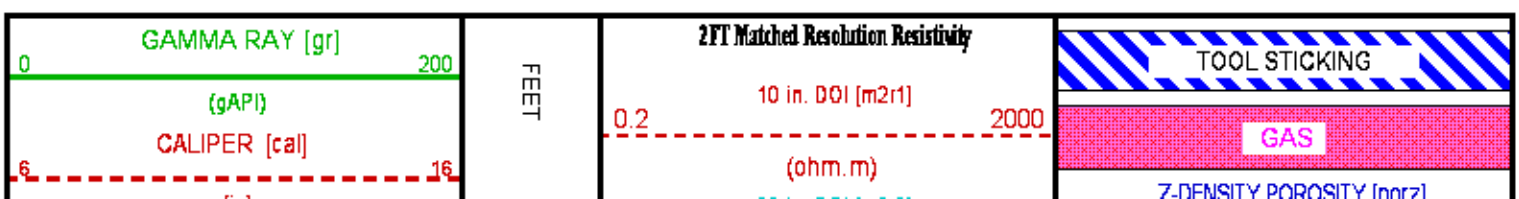
CURVE NAME	CREATION DATE	CURVE DESCRIPTION
F1:BIT	Aug 16 11:02:02 2013	BIT SIZE
F1:BVOL	Aug 16 11:02:02 2013	BOREHOLE VOLUME
F1:CAL	Aug 16 11:02:02 2013	CALIPER
F1:CNCF	Aug 16 11:02:02 2013	FIELD NORMALIZED COMPENSATED NEUTRON POROSITY
F1:CVOL	Aug 16 11:02:02 2013	CEMENT VOLUME
F1:GR	Aug 16 11:02:02 2013	GAMMA RAY
F1:M2R1	Aug 16 11:02:02 2013	VERTICAL 2-FOOT RESOLUTION MATCHED RESISTIVITY, 10-INCH DOI
F1:M2R6	Aug 16 11:02:02 2013	VERTICAL 2-FOOT RESOLUTION MATCHED RESISTIVITY, 60-INCH DOI
F1:M2R9	Aug 16 11:02:02 2013	VERTICAL 2-FOOT RESOLUTION MATCHED RESISTIVITY, 90-INCH DOI
F1:PE	Aug 16 11:02:02 2013	PHOTO ELECTRIC CROSS-SECTION
F1:PORZ	Aug 16 11:02:02 2013	POROSITY FOR SELECTABLE MATRIX
F1:SP	Aug 16 11:02:02 2013	SPONTANEOUS POTENTIAL
F1:TEN	Aug 16 11:02:02 2013	DIFFERENTIAL TENSION
F1:ZCOR	Aug 16 11:02:02 2013	DENSITY CORRECTION

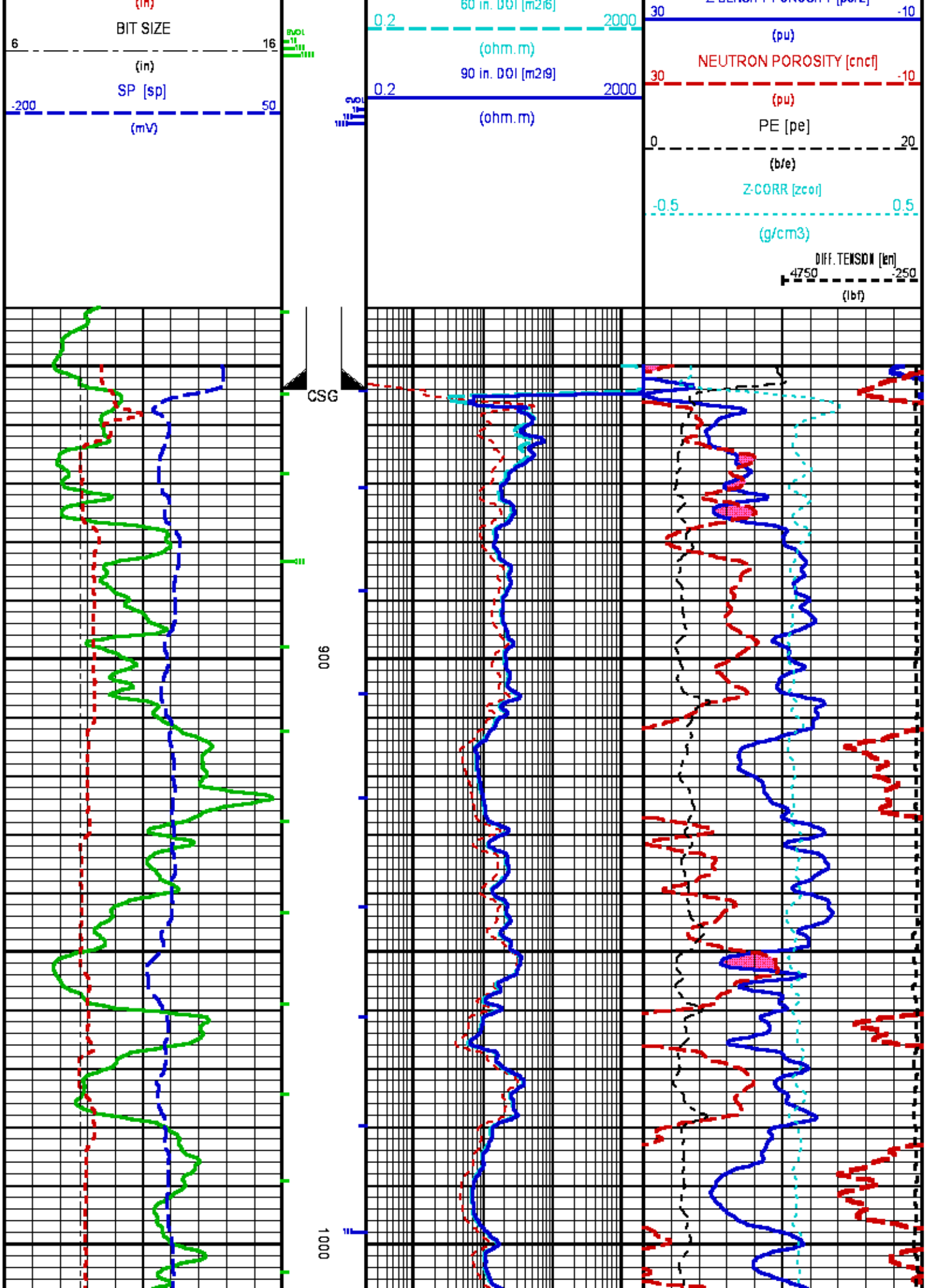
CURVE MEASURE POINT OFFSET

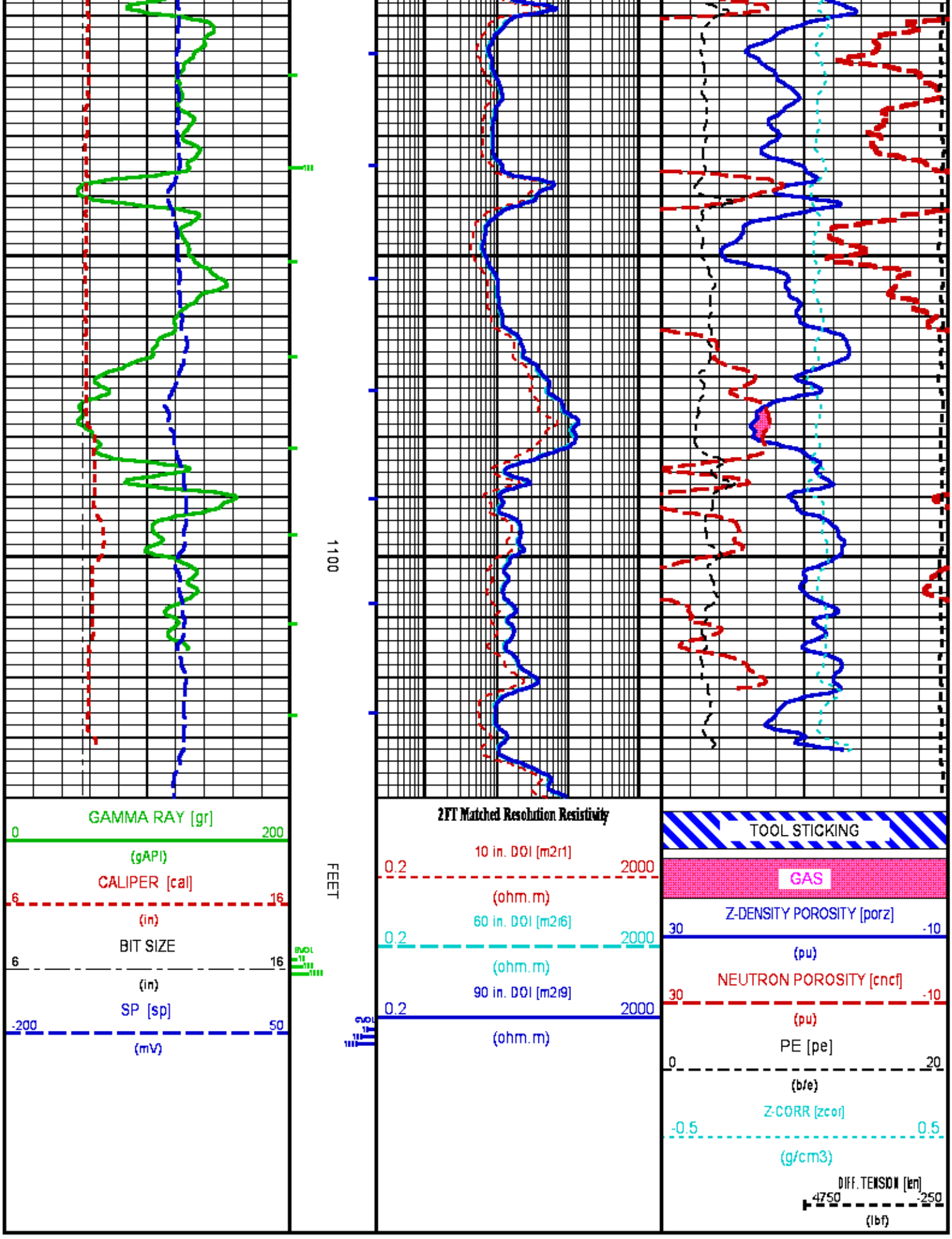
CURVE	OFFSET (ft)	CURVE	OFFSET (ft)	CURVE	OFFSET (ft)	CURVE	OFFSET (ft)
BIT	0.00	GR	107.25	M2R9	8.00	SP	14.00
CAL	90.00	M2R1	8.00	PE	89.25	TEN	0.00
CNCF	100.25	M2R6	8.00	PORZ	89.25	ZCOR	89.25

Presentation : **HL6670:WPX_REPEAT_FINAL_RDR.fvpdf [5"/100' Scale]**
Plot Interval : **840 - 1140 Feet**

Data File 1 : **F1 : HL6670:/dat1a/625570/REPEAT_R01.xtf**
Created On : **Aug 16 11:02:02 2013**
Company : **WPX ENERGY INC**
Well : **STRAIT SG 341-22**
Field : **GRAND VALLEY**
File Interval : **634.5 - 1224.75 Feet**
OCT : **nu779x**




(in)
BIT SIZE
6
16
(in)
SP [sp]
-200
50
(mV)
60 in. DOI [m2f6]
0.2
2000
(ohm.m)
90 in. DOI [m2f9]
0.2
2000
(ohm.m)
30
-10
(pu)
NEUTRON POROSITY [cncf]
30
-10
(pu)
PE [pe]
0
20
(b/e)
Z-CORR [zcor]
-0.5
0.5
(g/cm3)
DIFF. TENSION [ten]
4750
-250
(lbf)
CSG
900
1000


GAMMA RAY [gr]
0
200
(gAPI)
CALIPER [cal]
6
16
(in)
BIT SIZE
6
16
(in)
SP [sp]
-200
50
(mV)
1100
FEET
2FT Matched Resolution Resistivity
10 in. DOI [m2r1]
0.2
2000
(ohm.m)
60 in. DOI [m2r6]
0.2
2000
(ohm.m)
90 in. DOI [m2r9]
0.2
2000
(ohm.m)
TOOL STICKING
GAS
Z-DENSITY POROSITY [porz]
30
-10
(pu)
NEUTRON POROSITY [cncf]
30
-10
(pu)
PE [pe]
0
20
(b/e)
Z-CORR [zcor]
-0.5
0.5
(g/cm3)
DIFF. TENSION [ten]
4750
-250
(lbf)

CALIBRATION / VERIFICATION SUMMARY

Source File: /dat1a/625570/edit2.tp1

CHT PRIMARY CALIBRATION SUMMARY

TOOL #: 3981XA 10203010 DATE/TIME PERFORMED: Sun Aug 11 23:55:03 2013

UNIT #: 3880TA HL6670

	Signal Low (raw)	Signal High (raw)	Scale Mult	Scale Add	Engr Low (lbf)	Engr High (lbf)
CHT	79.47	-363.02	-3.22	164.30	-92.00	1335.00

CHT BEFORE LOG VERIFICATION SUMMARY

TOOL #: 3981XA 10203010 DATE/TIME PERFORMED: Thu Aug 15 10:34:29 2013 DAYS SINCE CAL: 3

UNIT #: 3880TA HL6670

	Signal Low (raw)	Signal High (raw)	Scale Mult	Scale Add	Engr Low (lbf)	Engr High (lbf)
CHT	-165.78	-570.47	-3.22	164.30	698.94	2003.99

GR PRIMARY CALIBRATION SUMMARY

TOOL #: 1329XA 10196895 DATE/TIME PERFORMED: Mon Jul 22 10:05:21 2013

UNIT #: 3880TA HL6670 CALB JIG #: 4702NK VBA-905

	BACKGROUND (cts/s)	CALBRTR ON (cts/s)	CR DIFF (cts/s)	MULT	BACKGROUND (gAPI)	CALBRTR ON (gAPI)	CALBRTR (gAPI)
GR	341.24	1249.42	908.2 (850.0 950.0)	0.165	56.36	206.36	150

GR PRIMARY VERIFICATION SUMMARY

TOOL #: 1329XA 10196895 DATE/TIME PERFORMED: Mon Jul 22 10:10:34 2013

UNIT #: 3880TA HL6670 VERI JIG #: 4702NK VBA-905

	BACKGROUND (cts/s)	CALBRTR ON (cts/s)	MULT	BACKGROUND (gAPI)	CALBRTR ON (gAPI)	DIFF. (gAPI)
GR	341.24	1247.76	0.165	56.36	206.09	149.72 (140.00 160.00)

GR BEFORE LOG VERIFICATION SUMMARY

TOOL #: 1329XA 10196895 DATE/TIME PERFORMED: Thu Aug 15 10:36:28 2013 DAYS SINCE CAL: 24

UNIT #: 3880TA HL6670 VERI JIG #: 4702NK VBA-905

	BACKGROUND (cts/s)	CALBRTR ON (cts/s)	MULT	BACKGROUND (gAPI)	CALBRTR ON (gAPI)	DIFF. (gAPI)
GR	172.04	1055.02	0.165	28.42	174.25	145.84 (139.72 159.72)

GR AFTER LOG VERIFICATION SUMMARY

TOOL #: 1329XA 10196895 DATE/TIME PERFORMED: Thu Aug 15 15:58:55 2013 DAYS SINCE CAL: 24

UNIT #: 3880TA HL6670 VERI JIG #: 4702NK VBA-905

	BACKGROUND (cts/s)	CALBRTR ON (cts/s)	MULT	BACKGROUND (gAPI)	CALBRTR ON (gAPI)	DIFF. (gAPI)
GR	162.53	1037.78	0.165	26.84	171.41	144.56 (139.84 159.84)

CN PRIMARY CALIBRATION SUMMARY

TOOL #: 2446XA 10202034 DATE/TIME PERFORMED: Wed Aug 7 09:35:49 2013

UNIT #: 3880TA HL6670 CALIBRATOR #: 2437XB 112674 SOURCE #: 4717XS N-0897

	MEASURED CPS	DEADTM CORR CPS	DTC SSN/LSN	NOMINAL SSN/LSN	CORRECTION FACTOR	POROSITY (pu)

LSN	568.45	576.31				
SSN	1536.09	1584.78				
RATIO			2.74988	2.75100	1.00041 (0.97000 – 1.07000)	
CN						21.358

CN PRIMARY VERIFICATION SUMMARY

TOOL #: 2446XA 10202034 DATE/TIME PERFORMED: Wed Aug 7 09:43:36 2013

UNIT #: 3880TA HL6670 ICE BLOCK #: 4717ND D-0147

	MEASURED CPS	DEADTM CORR CPS	DTC SSN/LSN	CORRECTION FACTOR	DTC CORR SSN/LSN	POROSITY (pu)
LSN	1584.79	1647.49				
SSN	3719.59	4018.63				
RATIO			2.43925	1.00041	2.44173	
CN						17.079

CN BEFORE LOG VERIFICATION SUMMARY

TOOL #: 2446XA 10202034 DATE/TIME PERFORMED: Thu Aug 15 07:58:38 2013 DAYS SINCE CAL: 7

UNIT #: 3880TA HL6670 ICE BLOCK #: 4717ND D-0147

	MEASURED CPS	DEADTM CORR CPS	DTC SSN/LSN	CORRECTION FACTOR	DTC CORR SSN/LSN	POROSITY (pu)
LSN	1619.98	1685.55				
SSN	3698.24	3993.71				
RATIO			2.36938	1.00041	2.37178	
CN						16.155 (15.079 – 19.079)

CAL PRIMARY CALIBRATION SUMMARY

TOOL #: 2234XA 10211833 DATE/TIME PERFORMED: Mon Jul 22 09:21:21 2013

UNIT #: 3880TA HL6670

	SMALL RING	LARGE RING	MULT	ADD	SMALL RING (in)	LARGE RING (in)
CALIPER	1840.0	2350.0	0.00784	-7.43137	7.000	11.000

CAL BEFORE LOG VERIFICATION SUMMARY

TOOL #: 2234XA 10211833 DATE/TIME PERFORMED: Thu Aug 15 10:50:29 2013 DAYS SINCE CAL: 24

UNIT #: 3880TA HL6670

	I.D.	MULT	ADD	I.D. (in)
CALIPER	1956.8	0.00784	-6.34645	9.001

ZDL PRIMARY CALIBRATION SUMMARY

TOOL: 2234XA 10211833 DATE/TIME PERFORMED: Mon Jul 22 09:12:25 2013

UNIT: 3880TA HL6670 CALB BLKS: 2225XA 094292 CS SRC: 4703NT 34631B

SS CS PK (Channel)	LS CS PK (Channel)	SS_BKGD (cps)	LS BKGD (cps)
223.2 (200.0 – 250.0)	224.4 (200.0 – 250.0)	1351.6	1654.9

	SS (cps)	LS (cps)	SHR	DEN (g/cm3)	CORR (g/cm3)	PE (b/e)
MG (LO PE)	23908.1	13213.4	0.574 (0.500 – 0.600)	1.697	0.002	2.300
AL	13950.4	1327.1		2.717	-0.004	
AL+PHIM	19303.4	7331.6		2.539	0.153	

AL + SHIM	19302.4	2332.6	2.025	0.137
MG + SHIM (HI PE)	11500.4	6134.2	0.224 (0.210 – 0.270)	8.730
RATIO AL + SHIM/AL	1.38 (1.32 – 1.42)	1.76 (1.61 – 1.81)		
RATIO MG/AL	1.71 (1.65 – 1.78)	9.96 (9.40 – 10.20)		

ZDL BEFORE LOG VERIFICATION SUMMARY

TOOL #: 2234XA 10211833 DATE/TIME PERFORMED: Thu Aug 15 10:32:47 2013 DAYS SINCE CAL: 24

UNIT #: 3880TA HL6670

	TOTAL (cps)	CSPK (Channel)	HV (V)
LS	1644.7 (1551.8 – 1751.8)	224.2 (220.0 – 250.0)	1183.9 (1100.0 – 1550.0)
SS	1352.4 (1251.8 – 1451.8)	225.6 (220.0 – 250.0)	1238.0 (1100.0 – 1550.0)

LV (V)	PAD CURRENT (mA)
5.0 (4.8 – 5.2)	68.3 (50.0 – 120.0)

ZDL AFTER LOG VERIFICATION SUMMARY

TOOL #: 2234XA 10211833 DATE/TIME PERFORMED: Thu Aug 15 15:55:56 2013 DAYS SINCE CAL: 24

UNIT #: 3880TA HL6670

	TOTAL (cps)	CSPK (Channel)	HV (V)
LS	1647.8 (1551.8 – 1751.8)	225.1 (220.0 – 250.0)	1188.0 (1100.0 – 1550.0)
SS	1343.2 (1251.8 – 1451.8)	223.6 (220.0 – 250.0)	1244.0 (1100.0 – 1550.0)

LV (V)	PAD CURRENT (mA)
5.0 (4.8 – 5.2)	67.6 (50.0 – 120.0)

HDIL PRIMARY CALIBRATION SUMMARY

TOOL #: 1515MA 10037719 DATE/TIME PERFORMED: Fri Aug 2 09:06:03 2013

UNIT #: 3880TA HL6670 GRCOND ID & DATE: 126 083096

ZERO DATA(mv)	10 KHz	30 KHz	50 KHz	70 KHz	90 KHz	110 KHz	130 KHz	150 KHz
Coil 0 R	0.001 (-0.200 – 0.200)	0.001 (-0.100 – 0.100)	0.002 (-0.100 – 0.100)	0.000 (-0.100 – 0.100)	-0.001 (-0.100 – 0.100)	0.002 (-0.100 – 0.100)	0.001 (-0.100 – 0.100)	-0.000 (-0.100 – 0.100)
Coil 0 Q	0.007 (-1.000 – 1.000)	0.008 (-0.200 – 0.200)	0.002 (-0.100 – 0.100)	0.001 (-0.100 – 0.100)	0.002 (-0.100 – 0.100)	0.001 (-0.100 – 0.100)	0.000 (-0.100 – 0.100)	0.001 (-0.100 – 0.100)
Coil 1 R	-0.000 (-0.200 – 0.200)	0.003 (-0.100 – 0.100)	0.004 (-0.100 – 0.100)	0.007 (-0.100 – 0.100)	0.008 (-0.100 – 0.100)	0.005 (-0.100 – 0.100)	0.003 (-0.100 – 0.100)	0.002 (-0.100 – 0.100)
Coil 1 Q	-0.006 (-1.000 – 1.000)	-0.009 (-0.200 – 0.200)	-0.007 (-0.100 – 0.100)	-0.003 (-0.100 – 0.100)	0.001 (-0.100 – 0.100)	0.003 (-0.100 – 0.100)	0.003 (-0.100 – 0.100)	0.003 (-0.100 – 0.100)
Coil 2 R	-0.003 (-0.200 – 0.200)	0.001 (-0.100 – 0.100)	0.001 (-0.100 – 0.100)	0.000 (-0.100 – 0.100)	0.001 (-0.100 – 0.100)	0.003 (-0.100 – 0.100)	0.006 (-0.100 – 0.100)	0.008 (-0.100 – 0.100)
Coil 2 Q	-0.002 (-1.000 – 1.000)	-0.001 (-0.200 – 0.200)	-0.001 (-0.100 – 0.100)	-0.001 (-0.100 – 0.100)	-0.005 (-0.100 – 0.100)	-0.004 (-0.100 – 0.100)	-0.003 (-0.100 – 0.100)	0.000 (-0.100 – 0.100)
Coil 3 R	0.003 (-0.100 – 0.100)	0.002 (-0.100 – 0.100)	0.004 (-0.100 – 0.100)	0.003 (-0.100 – 0.100)	0.005 (-0.100 – 0.100)	0.003 (-0.100 – 0.100)	0.003 (-0.100 – 0.100)	0.002 (-0.100 – 0.100)
Coil 3 Q	-0.009 (-0.500 – 0.500)	-0.007 (-0.200 – 0.200)	-0.004 (-0.100 – 0.100)	-0.001 (-0.100 – 0.100)	-0.001 (-0.100 – 0.100)	0.002 (-0.100 – 0.100)	0.002 (-0.100 – 0.100)	-0.002 (-0.100 – 0.100)
Coil 4 R	-0.011 (-0.200 – 0.200)	-0.000 (-0.200 – 0.200)	0.005 (-0.200 – 0.200)	-0.001 (-0.200 – 0.200)	0.004 (-0.200 – 0.200)	0.009 (-0.200 – 0.200)	0.008 (-0.200 – 0.200)	0.006 (-0.200 – 0.200)
Coil 4 Q	-0.008 (-1.000 – 1.000)	0.000 (-0.400 – 0.400)	-0.003 (-0.200 – 0.200)	-0.007 (-0.200 – 0.200)	-0.003 (-0.200 – 0.200)	-0.006 (-0.200 – 0.200)	-0.002 (-0.200 – 0.200)	0.001 (-0.200 – 0.200)
Coil 5 R	-0.007 (-0.400 – 0.400)	0.001 (-0.400 – 0.400)	0.004 (-0.400 – 0.400)	0.005 (-0.400 – 0.400)	0.000 (-0.400 – 0.400)	-0.004 (-0.400 – 0.400)	-0.004 (-0.400 – 0.400)	-0.000 (-0.400 – 0.400)
Coil 5 Q	-0.011 (-2.000 – 2.000)	0.001 (-0.800 – 0.800)	0.003 (-0.400 – 0.400)	0.004 (-0.400 – 0.400)	0.011 (-0.400 – 0.400)	0.005 (-0.400 – 0.400)	0.002 (-0.400 – 0.400)	0.002 (-0.400 – 0.400)
Coil 6 R	-0.027 (-1.000 – 1.000)	-0.006 (-1.000 – 1.000)	-0.024 (-1.000 – 1.000)	-0.011 (-1.000 – 1.000)	-0.020 (-1.000 – 1.000)	-0.005 (-1.000 – 1.000)	0.019 (-1.000 – 1.000)	0.012 (-1.000 – 1.000)
Coil 6 Q	0.017 (-5.000 – 5.000)	-0.018 (-2.000 – 2.000)	0.004 (-1.000 – 1.000)	0.000 (-1.000 – 1.000)	-0.016 (-1.000 – 1.000)	-0.020 (-1.000 – 1.000)	-0.020 (-1.000 – 1.000)	-0.015 (-1.000 – 1.000)

ELEC. GAINS	10 KHz	30 KHz	50 KHz	70 KHz	90 KHz	110 KHz	130 KHz	150 KHz
Coil 0 M	125.47 (100.00 – 150.00)	123.98 (100.00 – 150.00)	121.08 (95.00 – 150.00)	116.85 (95.00 – 140.00)	111.46 (92.00 – 140.00)	105.06 (87.00 – 130.00)	97.64 (82.00 – 120.00)	89.40 (75.00 – 110.00)
Coil 0 P	7.723 (0.000 – 0.000)	24.314 (19.000 – 35.000)	40.629 (32.000 – 47.000)	56.858 (47.000 – 65.000)	73.038 (57.000 – 85.000)	89.234 (70.000 – 100.000)	105.282 (82.000 – 120.000)	121.483 (95.000 – 140.000)

Coil 1 M	217.71	215.13	210.07	202.80	193.42	182.36	169.44	155.17
	180.00 270.00	180.00 270.00	190.00 260.00	190.00 250.00	180.00 250.00	180.00 250.00	150.00 220.00	140.00 200.00
Coil 1 P	7.697	24.262	40.537	56.762	72.889	89.039	105.103	121.241
	8.000 9.000	19.000 29.000	32.000 48.000	45.000 67.000	57.000 88.000	70.000 110.000	85.000 120.000	98.000 140.000
Coil 2 M	435.72	430.68	420.83	406.68	388.29	366.08	340.60	312.19
	380.00 510.00	380.00 510.00	350.00 550.00	340.00 510.00	330.00 500.00	310.00 490.00	300.00 440.00	290.00 410.00
Coil 2 P	7.884	24.817	41.477	58.068	74.614	91.243	107.689	124.305
	8.000 9.000	19.000 29.000	32.000 48.000	45.000 67.000	58.000 87.000	71.000 110.000	84.000 130.000	98.000 140.000
Coil 3 M	707.22	698.28	681.01	655.93	624.17	586.95	544.45	498.82
	590.00 850.00	590.00 810.00	570.00 850.00	550.00 850.00	530.00 800.00	500.00 780.00	470.00 710.00	440.00 660.00
Coil 3 P	7.850	24.761	41.340	57.809	74.121	90.411	106.468	122.552
	8.000 10.000	20.000 29.000	33.000 48.000	46.000 68.000	59.000 88.000	72.000 110.000	85.000 130.000	98.000 150.000
Coil 4 M	1138.9	1121.9	1089.8	1044.2	987.5	923.3	852.5	777.9
	900.0 1400.0	900.0 1300.0	900.0 1300.0	850.0 1300.0	800.0 1200.0	800.0 1200.0	750.0 1100.0	700.0 1000.0
Coil 4 P	8.083	25.391	42.299	59.020	75.465	91.725	107.701	123.562
	8.000 10.000	20.000 30.000	33.000 50.000	46.000 70.000	60.000 90.000	73.000 110.000	86.000 130.000	98.000 150.000
Coil 5 M	2366.0	2335.6	2276.5	2191.2	2082.4	1955.0	1810.5	1654.9
	1900.0 2800.0	1800.0 2800.0	1800.0 2700.0	1800.0 2600.0	1700.0 2500.0	1600.0 2400.0	1500.0 2600.0	1400.0 2100.0
Coil 5 P	8.215	25.800	43.074	60.239	77.244	94.178	110.910	127.587
	8.000 10.000	20.000 31.000	34.000 51.000	48.000 72.000	62.000 93.000	76.000 110.000	89.000 130.000	100.000 150.000
Coil 6 M	6021.1	5943.0	5791.5	5572.4	5293.5	4964.9	4591.6	4188.5
	4700.0 7100.0	4700.0 7000.0	4600.0 6800.0	4400.0 6600.0	4200.0 6400.0	4000.0 6000.0	3900.0 5800.0	3400.0 5100.0
Coil 6 P	8.161	25.900	43.277	60.545	77.676	94.728	111.586	128.428
	7.000 10.000	22.000 32.000	35.000 51.000	51.000 76.000	65.000 96.000	80.000 120.000	94.000 140.000	110.000 160.000

AM Factor	10 KHz	30 KHz	50 KHz	70 KHz	90 KHz	110 KHz	130 KHz	150 KHz
Coil 0 R	488	-83	-141	-154	-155	-154	-152	-150
	-200 800	-300 300	-800 100	-800 50	-500 20	-500 20	-500 20	-500 20
Coil 0 Q	1757	636	347	207	120	59	11	-29
	-3000 8000	-1000 2000	-1000 1200	-500 800	-400 700	-400 600	-400 500	-400 400
Coil 1 R	572	87	24	1	-10	-16	-20	-22
	450 650	20 150	-30 80	-50 40	-55 30	-60 20	-60 10	-60 10
Coil 1 Q	1204	485	305	219	170	136	111	93
	0 2500	0 900	0 800	0 450	0 350	0 300	0 250	0 250
Coil 2 R	185.0	26.9	6.8	0.1	-3.0	-4.9	-6.2	-6.2
	140.0 250.0	0.0 51.0	-10.0 25.0	-15.0 15.0	-16.0 10.0	-16.0 7.0	-16.0 5.0	-16.0 3.0
Coil 2 Q	401.6	162.9	104.7	79.1	65.1	56.6	50.5	46.4
	-200.0 1000.0	0.0 350.0	0.0 250.0	0.0 180.0	0.0 150.0	0.0 110.0	0.0 100.0	0.0 90.0
Coil 3 R	48.9	7.2	2.1	0.4	-0.3	-0.9	-1.5	-2.1
	31.0 62.0	0.0 12.0	-3.0 8.0	-4.0 4.0	-5.0 2.0	-5.0 1.0	-6.0 1.0	-6.0 1.0
Coil 3 Q	68.1	32.1	23.8	20.8	20.2	20.6	21.4	22.1
	-140.0 280.0	-40.0 100.0	-20.0 70.0	-10.0 60.0	-10.0 50.0	-10.0 50.0	-10.0 50.0	-10.0 50.0
Coil 4 R	11.36	1.11	-0.28	-0.73	-1.02	-1.18	-1.27	-1.45
	2.00 16.00	-3.00 6.00	-3.50 3.00	-3.80 2.00	-4.20 2.00	-4.50 2.00	-4.70 2.00	-5.00 2.00
Coil 4 Q	16.70	10.55	10.65	11.83	13.61	15.55	17.69	19.89
	-100.00 100.00	-30.00 50.00	-20.00 40.00	-10.00 40.00	-10.00 40.00	-10.00 45.00	-10.00 50.00	-10.00 60.00
Coil 5 R	2.33	-0.12	-0.16	-0.41	-0.48	-0.59	-0.53	-0.61
	-2.00 5.80	-3.20 2.40	-4.50 3.10	-4.70 3.20	-4.80 3.20	-5.00 3.30	-5.20 3.40	-5.40 3.50
Coil 5 Q	14.56	8.03	8.47	10.13	12.02	13.94	16.02	18.06
	-80.00 70.00	-40.00 30.00	-20.00 30.00	-20.00 35.00	-20.00 45.00	-20.00 50.00	-20.00 60.00	-30.00 70.00
Coil 6 R	-2.90	-0.57	-0.32	-0.28	-0.35	-0.30	-0.36	-0.42
	-4.80 1.00	-5.70 3.80	-6.50 4.80	-6.80 5.40	-7.50 5.80	-7.50 6.00	-7.70 6.10	-7.80 6.50
Coil 6 Q	1.74	2.83	5.03	7.46	9.64	11.90	14.11	16.44
	-30.00 30.00	-20.00 25.00	-20.00 35.00	-30.00 50.00	-35.00 60.00	-40.00 70.00	-50.00 80.00	-60.00 100.00

MM Factor	10 KHz	30 KHz	50 KHz	70 KHz	90 KHz	110 KHz	130 KHz	150 KHz
Coil 0 M	1.003	0.999	0.994	0.994	0.992	0.992	0.991	0.991
	0.900 1.100	0.900 1.100	0.900 1.100	0.900 1.100	0.900 1.100	0.900 1.100	0.900 1.100	0.900 1.100
Coil 0 P	0.149	0.318	0.377	0.326	0.290	0.224	0.158	0.152
	-2.000 2.000	-2.000 2.000	-2.000 2.000	-2.000 2.000	-2.000 2.000	-2.000 2.000	-2.000 2.000	-2.000 2.000
Coil 1 M	0.989	0.986	0.980	0.979	0.977	0.976	0.975	0.975
	0.900 1.100	0.900 1.100	0.900 1.100	0.900 1.100	0.900 1.100	0.900 1.100	0.900 1.100	0.900 1.100
Coil 1 P	0.168	0.377	0.444	0.464	0.426	0.346	0.302	0.226
	-2.000 2.000	-2.000 2.000	-2.000 2.000	-2.000 2.000	-2.000 2.000	-2.000 2.000	-2.000 2.000	-2.000 2.000
Coil 2 M	1.009	1.006	1.005	1.004	1.003	1.002	1.002	1.001
	0.900 1.100	0.900 1.100	0.900 1.100	0.900 1.100	0.900 1.100	0.900 1.100	0.900 1.100	0.900 1.100
Coil 2 P	0.030	0.080	0.110	0.128	0.146	0.153	0.089	0.126
	-2.000 2.000	-2.000 2.000	-2.000 2.000	-2.000 2.000	-2.000 2.000	-2.000 2.000	-2.000 2.000	-2.000 2.000
Coil 3 M	0.995	0.994	0.993	0.992	0.991	0.991	0.992	0.993
	0.900 1.100	0.900 1.100	0.900 1.100	0.900 1.100	0.900 1.100	0.900 1.100	0.900 1.100	0.900 1.100
Coil 3 P	0.028	0.089	0.147	0.161	0.176	0.138	0.108	0.161
	-2.000 2.000	-2.000 2.000	-2.000 2.000	-2.000 2.000	-2.000 2.000	-2.000 2.000	-2.000 2.000	-2.000 2.000
Coil 4 M	1.001	1.000	1.000	0.999	0.999	0.998	0.997	0.996
	0.900 1.100	0.900 1.100	0.900 1.100	0.900 1.100	0.900 1.100	0.900 1.100	0.900 1.100	0.900 1.100
Coil 4 P	0.047	0.110	0.126	0.200	0.209	0.203	0.217	0.188
	-2.000 2.000	-2.000 2.000	-2.000 2.000	-2.000 2.000	-2.000 2.000	-2.000 2.000	-2.000 2.000	-2.000 2.000
Coil 5 M	1.011	1.011	1.011	1.010	1.009	1.009	1.008	1.007
	0.900 1.100	0.900 1.100	0.900 1.100	0.900 1.100	0.900 1.100	0.900 1.100	0.900 1.100	0.900 1.100
Coil 5 P	0.039	-0.012	0.067	0.082	0.034	-0.028	0.000	-0.059
	-2.000 2.000	-2.000 2.000	-2.000 2.000	-2.000 2.000	-2.000 2.000	-2.000 2.000	-2.000 2.000	-2.000 2.000
Coil 6 M	1.011	1.013	1.013	1.011	1.011	1.016	1.016	1.015
	0.900 1.100	0.900 1.100	0.900 1.100	0.900 1.100	0.900 1.100	0.900 1.100	0.900 1.100	0.900 1.100
Coil 6 P	-0.018	0.074	0.034	0.126	0.021	-0.084	-0.051	-0.166
	-2.000 2.000	-2.000 2.000	-2.000 2.000	-2.000 2.000	-2.000 2.000	-2.000 2.000	-2.000 2.000	-2.000 2.000

PARMS	TCID 0	TCID 1	Cal Temp (degF)	T Factor
IDs	1.617	0.832	75.3	1.04

HDIL BEFORE LOG VERIFICATION SUMMARY

HDIL BEFORE LOG VERIFICATION SUMMARY

TOOL #: 1515MA 10037719 DATE/TIME PERFORMED: Thu Aug 15 11:59:09 2013 DAYS SINCE CAL: 13

UNIT #: 3880TA HL6670

ZERO DATA(mv)	10 KHz	30 KHz	50 KHz	70 KHz	90 KHz	110 KHz	130 KHz	150 KHz
Coil 0 R	-0.001 (-0.200 0.200)	0.000 (-0.100 0.100)	0.001 (-0.100 0.100)	-0.001 (-0.100 0.100)	-0.002 (-0.100 0.100)	0.001 (-0.100 0.100)	-0.000 (-0.100 0.100)	-0.001 (-0.100 0.100)
Coil 0 Q	0.007 (-1.000 1.000)	0.007 (-0.200 0.200)	0.002 (-0.100 0.100)	0.001 (-0.100 0.100)	0.003 (-0.100 0.100)	0.001 (-0.100 0.100)	0.001 (-0.100 0.100)	0.000 (-0.100 0.100)
Coil 1 R	-0.001 (-0.200 0.200)	-0.001 (-0.100 0.100)	0.001 (-0.100 0.100)	0.003 (-0.100 0.100)	0.003 (-0.100 0.100)	-0.001 (-0.100 0.100)	-0.003 (-0.100 0.100)	-0.004 (-0.100 0.100)
Coil 1 Q	-0.006 (-1.000 1.000)	-0.006 (-0.200 0.200)	-0.003 (-0.100 0.100)	-0.000 (-0.100 0.100)	0.001 (-0.100 0.100)	0.003 (-0.100 0.100)	0.003 (-0.100 0.100)	0.000 (-0.100 0.100)
Coil 2 R	-0.000 (-0.200 0.200)	-0.000 (-0.100 0.100)	-0.000 (-0.100 0.100)	-0.001 (-0.100 0.100)	0.000 (-0.100 0.100)	0.002 (-0.100 0.100)	0.004 (-0.100 0.100)	0.006 (-0.100 0.100)
Coil 2 Q	-0.003 (-1.000 1.000)	-0.000 (-0.200 0.200)	0.000 (-0.100 0.100)	-0.001 (-0.100 0.100)	-0.005 (-0.100 0.100)	-0.004 (-0.100 0.100)	-0.004 (-0.100 0.100)	-0.000 (-0.100 0.100)
Coil 3 R	0.001 (-0.100 0.100)	-0.001 (-0.100 0.100)	0.001 (-0.100 0.100)	0.000 (-0.100 0.100)	0.002 (-0.100 0.100)	0.002 (-0.100 0.100)	0.001 (-0.100 0.100)	0.000 (-0.100 0.100)
Coil 3 Q	-0.006 (-0.500 0.500)	-0.005 (-0.200 0.200)	0.001 (-0.100 0.100)	0.000 (-0.100 0.100)	-0.005 (-0.100 0.100)	0.000 (-0.100 0.100)	0.001 (-0.100 0.100)	-0.002 (-0.100 0.100)
Coil 4 R	-0.011 (-0.200 0.200)	-0.004 (-0.200 0.200)	-0.006 (-0.200 0.200)	-0.003 (-0.200 0.200)	-0.001 (-0.200 0.200)	0.000 (-0.200 0.200)	0.005 (-0.200 0.200)	0.003 (-0.200 0.200)
Coil 4 Q	-0.014 (-1.000 1.000)	0.001 (-0.400 0.400)	-0.001 (-0.200 0.200)	0.001 (-0.200 0.200)	-0.005 (-0.200 0.200)	-0.005 (-0.200 0.200)	-0.003 (-0.200 0.200)	-0.001 (-0.200 0.200)
Coil 5 R	-0.016 (-0.400 0.400)	0.005 (-0.400 0.400)	0.004 (-0.400 0.400)	0.007 (-0.400 0.400)	-0.007 (-0.400 0.400)	-0.006 (-0.400 0.400)	-0.003 (-0.400 0.400)	-0.003 (-0.400 0.400)
Coil 5 Q	-0.008 (-2.000 2.000)	0.007 (-0.800 0.800)	-0.001 (-0.400 0.400)	0.003 (-0.400 0.400)	0.003 (-0.400 0.400)	0.007 (-0.400 0.400)	-0.000 (-0.400 0.400)	-0.002 (-0.400 0.400)
Coil 6 R	0.006 (-1.000 1.000)	-0.014 (-1.000 1.000)	0.003 (-1.000 1.000)	-0.002 (-1.000 1.000)	-0.016 (-1.000 1.000)	-0.007 (-1.000 1.000)	0.014 (-1.000 1.000)	0.017 (-1.000 1.000)
Coil 6 Q	-0.028 (-5.000 5.000)	0.035 (-2.000 2.000)	-0.024 (-1.000 1.000)	-0.015 (-1.000 1.000)	-0.011 (-1.000 1.000)	0.003 (-1.000 1.000)	0.001 (-1.000 1.000)	-0.010 (-1.000 1.000)

ELEC. GAINS	10 KHz	30 KHz	50 KHz	70 KHz	90 KHz	110 KHz	130 KHz	150 KHz
Coil 0 M	125.57 (100.00 150.00)	124.08 (100.00 150.00)	121.21 (90.00 150.00)	116.94 (90.00 140.00)	111.59 (80.00 140.00)	105.24 (80.00 130.00)	97.78 (80.00 120.00)	89.59 (70.00 110.00)
Coil 0 P	7.722 (0.000 9.000)	24.325 (19.000 29.000)	40.655 (32.000 47.000)	56.914 (44.000 66.000)	73.118 (57.000 85.000)	89.339 (70.000 100.000)	105.450 (82.000 120.000)	121.726 (95.000 140.000)
Coil 1 M	217.53 (160.00 270.00)	214.96 (160.00 270.00)	209.94 (170.00 260.00)	202.61 (170.00 250.00)	193.41 (160.00 250.00)	182.33 (160.00 230.00)	169.51 (150.00 220.00)	155.27 (140.00 200.00)
Coil 1 P	7.705 (0.000 9.000)	24.296 (19.000 28.000)	40.590 (32.000 48.000)	56.843 (45.000 67.000)	73.004 (57.000 85.000)	89.202 (70.000 110.000)	105.380 (83.000 120.000)	121.640 (95.000 140.000)
Coil 2 M	436.63 (350.00 540.00)	431.61 (350.00 540.00)	421.89 (350.00 550.00)	407.56 (340.00 510.00)	389.31 (330.00 500.00)	367.26 (310.00 470.00)	341.61 (300.00 440.00)	313.11 (270.00 410.00)
Coil 2 P	7.689 (0.000 9.000)	24.836 (19.000 29.000)	41.520 (32.000 48.000)	58.152 (45.000 67.000)	74.738 (58.000 87.000)	91.417 (71.000 110.000)	107.927 (84.000 130.000)	124.616 (96.000 140.000)
Coil 3 M	708.67 (560.00 880.00)	699.70 (560.00 870.00)	682.57 (570.00 880.00)	657.36 (560.00 850.00)	625.81 (530.00 800.00)	588.67 (500.00 760.00)	546.24 (470.00 710.00)	500.12 (440.00 650.00)
Coil 3 P	7.863 (0.000 10.000)	24.793 (20.000 29.000)	41.392 (33.000 49.000)	57.894 (46.000 68.000)	74.243 (59.000 88.000)	90.606 (72.000 110.000)	106.714 (85.000 130.000)	122.895 (98.000 150.000)
Coil 4 M	1141.5 (900.0 1400.0)	1124.5 (900.0 1500.0)	1092.6 (900.0 1500.0)	1046.7 (850.0 1500.0)	990.5 (800.0 1200.0)	926.3 (800.0 1200.0)	855.3 (750.0 1100.0)	780.6 (700.0 1000.0)
Coil 4 P	8.090 (0.000 10.000)	25.417 (20.000 30.000)	42.347 (33.000 50.000)	59.104 (46.000 70.000)	75.579 (60.000 90.000)	91.908 (73.000 110.000)	107.899 (86.000 130.000)	123.887 (99.000 150.000)
Coil 5 M	2371.5 (1900.0 2800.0)	2341.1 (1800.0 2800.0)	2282.6 (1800.0 2700.0)	2196.7 (1800.0 2600.0)	2088.3 (1700.0 2500.0)	1961.4 (1600.0 2400.0)	1817.3 (1500.0 2200.0)	1661.7 (1400.0 2100.0)
Coil 5 P	8.221 (0.000 10.000)	25.823 (20.000 31.000)	43.114 (34.000 51.000)	60.306 (48.000 72.000)	77.350 (62.000 93.000)	94.337 (76.000 110.000)	111.121 (89.000 130.000)	127.928 (100.000 150.000)
Coil 6 M	6020.4 (4700.0 7100.0)	5941.9 (4700.0 7000.0)	5793.5 (4800.0 6800.0)	5572.9 (4400.0 6600.0)	5297.4 (4200.0 6400.0)	4972.4 (4000.0 6000.0)	4601.0 (3700.0 5600.0)	4198.1 (3400.0 5100.0)
Coil 6 P	8.163 (7.000 10.000)	25.913 (22.000 32.000)	43.295 (36.000 54.000)	60.595 (51.000 76.000)	77.744 (65.000 96.000)	94.860 (80.000 120.000)	111.760 (94.000 140.000)	128.728 (110.000 160.000)

HDIL AFTER LOG VERIFICATION SUMMARY

TOOL #: 1515MA 10037719 DATE/TIME PERFORMED: Thu Aug 15 15:29:03 2013 DAYS SINCE CAL: 13

UNIT #: 3880TA HL6670

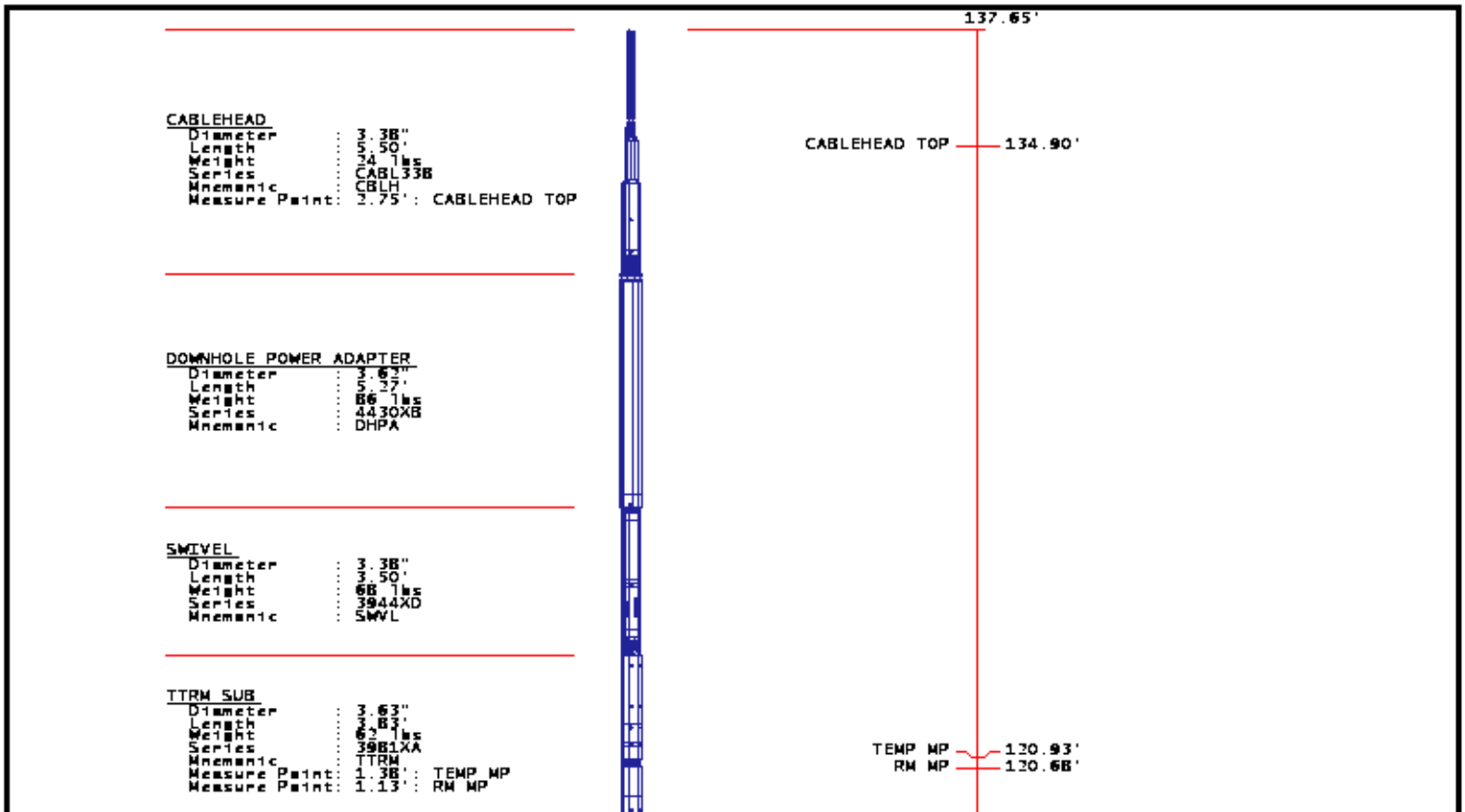
ZERO DATA(mv)	10 KHz	30 KHz	50 KHz	70 KHz	90 KHz	110 KHz	130 KHz	150 KHz
Coil 0 R	0.001 (-0.061 0.079)	0.002 (-0.060 0.080)	0.003 (-0.026 0.051)	0.001 (-0.051 0.053)	-0.001 (-0.052 0.050)	0.000 (-0.050 0.051)	0.001 (-0.050 0.052)	-0.001 (-0.051 0.050)
Coil 0 Q	0.007 (-0.055 0.069)	0.009 (-0.113 0.129)	0.003 (-0.026 0.052)	0.002 (-0.026 0.051)	0.003 (-0.029 0.055)	0.000 (-0.050 0.051)	-0.001 (-0.052 0.051)	-0.000 (-0.050 0.050)
Coil 1 R	0.002 (-0.061 0.079)	0.001 (-0.061 0.048)	0.001 (-0.026 0.051)	0.004 (-0.029 0.055)	0.002 (-0.029 0.055)	-0.002 (-0.051 0.050)	-0.004 (-0.055 0.029)	-0.005 (-0.054 0.026)
Coil 1 Q	-0.006 (-0.106 0.094)	-0.006 (-0.105 0.094)	-0.003 (-0.055 0.029)	0.002 (-0.050 0.050)	0.003 (-0.026 0.051)	0.004 (-0.029 0.055)	0.003 (-0.029 0.055)	-0.000 (-0.050 0.050)
Coil 2 R	0.001 (-0.070 0.070)	0.002 (-0.050 0.050)	-0.001 (-0.050 0.050)	-0.001 (-0.051 0.050)	0.001 (-0.050 0.050)	0.003 (-0.026 0.052)	0.006 (-0.026 0.054)	0.008 (-0.024 0.056)
Coil 2 Q	-0.001 (-0.355 0.347)	0.000 (-0.100 0.100)	-0.001 (-0.050 0.050)	-0.001 (-0.051 0.050)	-0.006 (-0.055 0.025)	-0.006 (-0.054 0.026)	-0.004 (-0.054 0.026)	-0.004 (-0.050 0.050)
Coil 3 R	0.001 (-0.058 0.041)	-0.000 (-0.041 0.058)	0.004 (-0.058 0.041)	0.005 (-0.040 0.040)	0.004 (-0.058 0.042)	0.004 (-0.058 0.042)	0.003 (-0.058 0.041)	0.003 (-0.040 0.040)
Coil 3 Q	-0.009 (-0.208 0.184)	-0.007 (-0.085 0.075)	-0.001 (-0.058 0.041)	-0.001 (-0.040 0.040)	-0.002 (-0.045 0.055)	-0.003 (-0.040 0.040)	0.001 (-0.058 0.041)	-0.003 (-0.042 0.036)
Coil 4 R	-0.004	-0.004	-0.001	-0.002	0.000	-0.003	0.004	0.003

Coil 4 Q	-0.008	0.003	-0.004	-0.002	-0.002	-0.004	-0.006	-0.005
Coil 5 R	-0.008	-0.007	0.017	-0.004	0.011	-0.001	0.002	0.000
Coil 5 Q	-0.009	-0.004	0.004	0.004	0.005	0.006	0.007	-0.004
Coil 6 R	0.024	-0.006	-0.018	-0.002	-0.003	0.011	0.012	0.023
Coil 6 Q	-0.002	0.002	0.015	-0.004	-0.008	-0.016	-0.016	-0.009

ELEC. GAINS	10 KHz	30 KHz	50 KHz	70 KHz	90 KHz	110 KHz	130 KHz	150 KHz
Coil 0 M	125.69	124.16	121.27	116.79	111.39	104.63	97.15	88.61
Coil 0 P	7.746	24.407	40.806	57.138	73.347	89.634	105.651	121.953
Coil 1 M	217.67	215.02	210.01	202.28	192.95	181.20	168.34	153.51
Coil 1 P	7.729	24.381	40.753	57.094	73.263	89.516	105.596	121.845
Coil 2 M	436.93	431.75	421.97	406.88	388.32	365.12	339.32	309.54
Coil 2 P	7.913	24.920	41.678	58.380	74.984	91.707	108.143	124.859
Coil 3 M	709.20	700.00	682.82	656.23	624.25	585.09	542.46	494.76
Coil 3 P	7.889	24.879	41.556	58.133	74.495	90.892	106.909	123.097
Coil 4 M	1141.7	1124.3	1092.3	1044.3	987.5	920.1	848.9	771.4
Coil 4 P	8.117	25.507	42.515	59.346	75.843	92.213	108.135	124.133
Coil 5 M	2372.4	2341.2	2282.6	2191.9	2082.9	1949.1	1804.2	1642.6
Coil 5 P	8.247	25.906	43.278	60.550	77.599	94.635	111.328	128.139
Coil 6 M	6021.2	5941.2	5790.8	5560.3	5281.7	4938.2	4565.3	4146.6
Coil 6 P	8.190	25.993	43.468	60.832	77.997	95.154	111.981	128.912

INSTRUMENT CONFIGURATION

Source File: /dat1a/625570/625570-tdg



MTS COMMON REMOTE
Diameter : 3.63"
Length : 6.36'
Weight : 126 lbs
Series : 3514XB
Mnemonic : MTS

DIGITAL SPECTRALOG
Diameter : 3.63"
Length : 7.31'
Weight : 130 lbs
Series : 1339XA
Mnemonic : DSL
Measure Point: 1.60' : CR MP

CR MP — 107.47'

COMPENSATED NEUTRON
Diameter : 3.63"
Length : 7.59'
Weight : 150 lbs
Series : 3446XA
Mnemonic : CN
Measure Point: 2.63' : LSN MP
Measure Point: 2.24' : SSN MP

LSN MP — 100.93'
SSN MP — 100.53'

Z-DENSILOG
Diameter : 4.88"
Length : 11.32'
Weight : 360 lbs
Series : 3534XA
Mnemonic : ZDL
Measure Point: 3.19' : CAL MP
Measure Point: 3.47' : LSD MP
Measure Point: 3.07' : SSD MP

CAL MP — 90.36'
LSD MP — 89.54'
SSD MP — 89.14'

KNUCKLE JOINT (DOUBLE)
Diameter : 3.38"
Length : 4.65'
Weight : 90 lbs
Series : 3939XA
Mnemonic : KNJT

DIGITAL ORIENTATION
Diameter : 3.38"
Length : 10.81'
Weight : 110 lbs
Series : 4401XB
Mnemonic : ORIT
Measure Point: 0.00' : ORIENT MP

ORIENT MP — 71.60'

4 ARM BOW SPRING CENTRALIZER
- Diameter : 3.38"
- Length : 4.13'
- Weight : 73 lbs
- Series : 4341XA
- Mnemonic : CENT

ARRAY ACOUSTILOG ELECTRONICS, B CHANNEL
- Diameter : 3.38"
- Length : 7.83'
- Weight : 103 lbs
- Series : 1677EA
- Mnemonic : XMAC

CROSS MULTIPOLE ARRAY ACOUSTILOG
- Diameter : 3.75"
- Length : 10.91'
- Weight : 334 lbs
- Series : 167BMC
- Mnemonic : XMP1
- Measure Point: 5.50' : R8
- Measure Point: 5.00' : R7
- Measure Point: 4.50' : R6
- Measure Point: 4.00' : R5
- Measure Point: 3.50' : R4
- Measure Point: 3.00' : R3
- Measure Point: 2.50' : R2
- Measure Point: 2.00' : R1

R8 — 54.26'
R7 — 53.76'
R6 — 53.26'
R5 — 52.76'
R4 — 52.26'
R3 — 51.76'
R2 — 51.26'
R1 — 50.76'

SHEAR WAVE ACOUSTILOG
- Diameter : 3.63"
- Length : 5.00'
- Weight : 135 lbs
- Series : 167BPB
- Mnemonic : XMAC

MONOPOLE T2 — 42.26'
QUADRUPOLE T5 — 42.26'

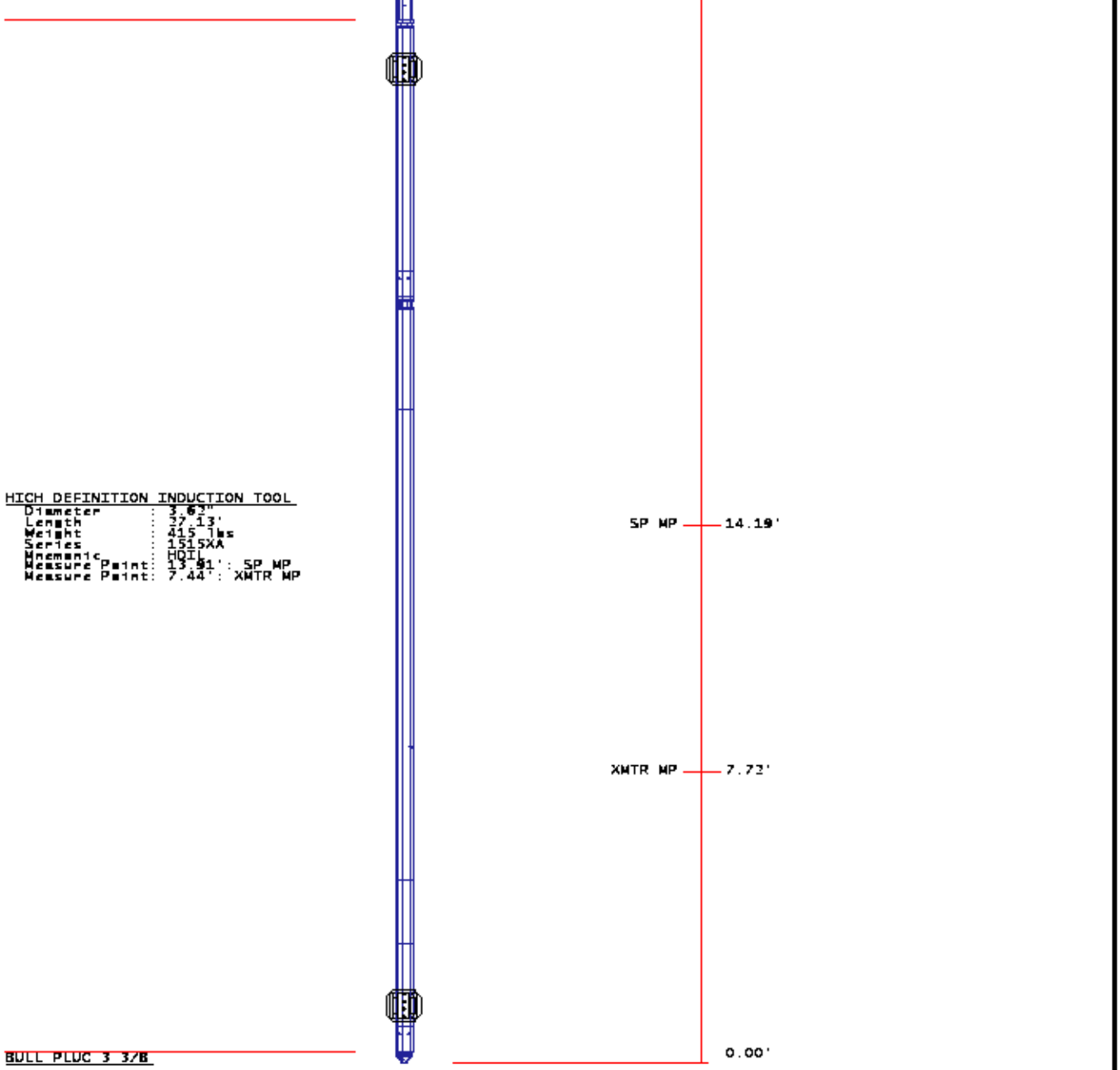
MULTI-POLE ARRAY ACOUSTIC
- Diameter : 3.88"
- Length : 7.93'
- Weight : 170 lbs
- Series : 167BBA
- Mnemonic : XMAC
- Measure Point: 6.43' : QUADRUPOLE T5
- Measure Point: 6.43' : MONOPOLE T2
- Measure Point: 4.67' : Y-DIPOLE T4
- Measure Point: 4.67' : X-DIPOLE T3
- Measure Point: 2.92' : MONOPOLE T1

X-DIPOLE T3 — 40.51'
Y-DIPOLE T4 — 40.51'

MONOPOLE T1 — 38.76'

MULTI-POLE ARRAY ACOUSTIC
- Diameter : 3.38"
- Length : 4.33'
- Weight : 58 lbs
- Series : 167BFA
- Mnemonic : MAC

4 ARM BOW SPRING CENTRALIZER
- Diameter : 3.38"
- Length : 4.13'
- Weight : 73 lbs
- Series : 4341XA
- Mnemonic : CENT



HIGH DEFINITION INDUCTION TOOL

Diameter	: 3.63"
Length	: 37.13'
Weight	: 415 lbs
Series	: 1515XA
Mnemonic	: HDII
Measure Point	: 13.91': SP MP
Measure Point	: 7.44': XMTR MP

BULL PLUG 3 3/8

TOTAL LENGTH: 137.65'
TOTAL WEIGHT: 3475 lbs
MAX DIAMETER: 04.88"

BAKER HUGHES

ECLIPS

COMPANY	WPX ENERGY INC
WELL	STRAIT SG 341-22
FIELD	GRAND VALLEY
COUNTY	GARFIELD
STATE	CO

FILE NO: US625568

API NO: 05045217470000

LOCATION:

SHL: 1458' FNL; 286' FEL
BHL: 616' FNL; 623' FEL

SEC 22 TWN 7S RGE 96W

ELEVATIONS:

KB 5244 FT
DF
GL 5222 FT

S22 T7S R96W
PAD SG 42-22
RIG CYCLONE 17

DATE 12-Aug-2013