



Baker Atlas

HIGH DEFINITION INDUCTION LOG
GAMMA RAY LOG
CALIPER LOG
focus

License:

1343

UWI:

06-081-07363

Company

Well

Field

Province

WEXPRO COMPANY

STEWART #5

POWDER WASH

MOFFAT

Province COLORADO

Other Services

ZDL-GR-CAL
HDL-GR-CN

RIG TIME:

THANK YOU

Location
1,825' FEL 238' FNL NWNE

SEC 32 TWP 12N RGE 97W

G.L. Elevation 6701.0 ft

K.B. 13.5 ft Above P. D.

Drill Measured From
KELLY BUSHING

Elevations

KB 6714.5 ft

DF N/A

GL 6701.0 ft

Permanent Datum

Log Measured From

Drill Measured From

DATE

OP

SERVICE ORDER

DEPTH DRILLER

DEPTH LOGGER

BOTTOM LOGGED INTERVAL

TOP LOGGED INTERVAL

CASING DRILLER CASING SIZE

CASING LOGGER

BIT SIZE

TYPE OF FLUID IN HOLE

FLUID DENSITY VISCOSITY

pH FLUID LOSS

SOURCE OF SAMPLE

Rm @ MEAS. TEMP.

Rmf @ MEAS. TEMP.

Rmc @ MEAS. TEMP.

SOURCE OF RMT RMC

RMT AT BHT

TIME SINCE CIRCULATION

MAX. RECORDED TEMP.

EQUIP. NO. LOCATION

RECORDED BY

WITNESSED BY

21/AUG/07

1

533981

8391.0 ft

3965.0 ft

8302.5 ft

495.0 ft

499.0 ft

495.0 ft

7.875 in

WATER

10.20 lbm/gal

10.00

FLOWLINE

1.61 ohmm

1.58 ohmm

1.68 ohmm

MEASURED

MEASURED

1.16 ohmm

15 HOURS

118.00 degF

4214

G.OYENIKAN

FRANK SHATTUK

0

0

0

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- FOLD HERE

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
7.875 in	499.0 ft	8391.0 ft

Casing Record

Size	Weight	Grade	From	To
9.625 in	36.0 lbm/ft	J-55	0.0 ft	499.0 ft

Remarks

STOPPED CIRCULATING @ 6:30PM AUG 21 2007

HOLE VERY STICKY, DID NOT MAKE T.D.

HDL=ZDL-CN-GR-XCAL=ML recorded in combination.

BVOL and CVOL are calculated from a single x-axis(ZDL) caliper only

BVOL = Total Borehole Volume.

CYOL = Total Cement Volume.

Small Tick(s) = 10.0 cubic feet.

Medium Tick(s) = 100.0 cubic feet.

Large Tick(s) = 1000.0 cubic feet.

RIG: UNIT DRILLING 137 CREW: DANKLESON/HOWERTON

Borehole and temperature corrections have been applied to induction data.

Induction recorded with and corrected to 1.5 inch (38mm) standoff.

Average caliper presented with the induction to assist with the QC of the data.

HOLE WAS SLUFFED IN AT BOTTOM, HDL PICKED UP SIGNAL EARLY

Equipment Data

<i>Trip</i>	<i>Operation</i>	<i>Tool</i>	<i>Series Number</i>	<i>Serial Number</i>	<i>Position</i>
1	1	Cablehead	FCBLHD		FREE
1	1	Swivel	3950XA	10145884	FREE
1	1	TTMA	3980XA	10138909	FREE
1	1	Telemetry	3618XA	10110804	FREE
1	1	Gamma Ray	3618XG	10110804	FREE
1	1	Comp. Neutron	2436XA	10090668	DECENTRALIZED
1	1	Z-Density	2223XA	10137837	DECENTRALIZED
1	1	Knuckle	3930XA	10139400	KNUCKLE JOINT
1	1	Knuckle	3930XA	10163289	KNUCKLE JOINT
1	1	Minilog	1114XB	00044338	DECENTRALIZED
1	1	Knuckle	3930XA		KNUCKLE JOINT
1	1	Knuckle	3930XA		KNUCKLE JOINT
1	1	Induction	1530XA	10139552	ECCENTERED
1	1	Pineapple	PINEAP		FREE

MAIN LOG 2" / 100 FT SCALE

Parameter & Filter History Report

FILE: C:\WellData\WEXPRO_COMPANY\STEWART_#5\1\1\MAIN00.prm
TIME COMPLETED: August 22, 2007 10:44
LOGGING MODE: DEPTH UP
TOP DEPTH: 5.1 ft BOTTOM DEPTH: 3986.8 ft

Filters

Curve Tool Filter Top Bottom

Curve Measure Point Offset [DATA]							
CURVES	OFFSET (ft)	CURVES	OFFSET (ft)	CURVES	OFFSET (ft)	CURVES	OFFSET (ft)
SPD	0.0	SPDQR	0.0	TEN	0.0	TENQR	0.0
TTEN	0.0	TTENQR	0.0				
Curve Measure Point Offset [GR]							
CURVES	OFFSET (ft)	CURVES	OFFSET (ft)	CURVES	OFFSET (ft)	CURVES	OFFSET (ft)
GR	-48.5						
Curve Measure Point Offset [HDIL]							
CURVES	OFFSET (ft)	CURVES	OFFSET (ft)	CURVES	OFFSET (ft)	CURVES	OFFSET (ft)
M2R1	-3.2	M2R2	-3.2	M2R3	-3.2	M2R6	-3.2
M2R9	-3.2						
Curve Measure Point Offset [ML]							
CURVES	OFFSET (ft)	CURVES	OFFSET (ft)	CURVES	OFFSET (ft)	CURVES	OFFSET (ft)
CALM	-18.3	RLML	-18.3	RNML	-18.3		
Curve Measure Point Offset [TEL]							
CURVES	OFFSET (ft)	CURVES	OFFSET (ft)	CURVES	OFFSET (ft)	CURVES	OFFSET (ft)
SP	-1.7						
Curve Measure Point Offset [TTMA]							
CURVES	OFFSET (ft)	CURVES	OFFSET (ft)	CURVES	OFFSET (ft)	CURVES	OFFSET (ft)
CHT	0.0	CHTQR	0.0	MDTWP	-54.7		
Curve Measure Point Offset [ZDEN]							
CURVES	OFFSET (ft)	CURVES	OFFSET (ft)	CURVES	OFFSET (ft)	CURVES	OFFSET (ft)
CALX	-33.8	FE	-31.0	FORZ	-31.0	ZDEN	-31.0

Created by : FOCUS

Plotted by : PlotMgr, v5.4.254

Company : WEXPRO COMPANY

Well : STEWART #5

File Name : c:\welledata\stewart_#5\1\1\main00.xtf

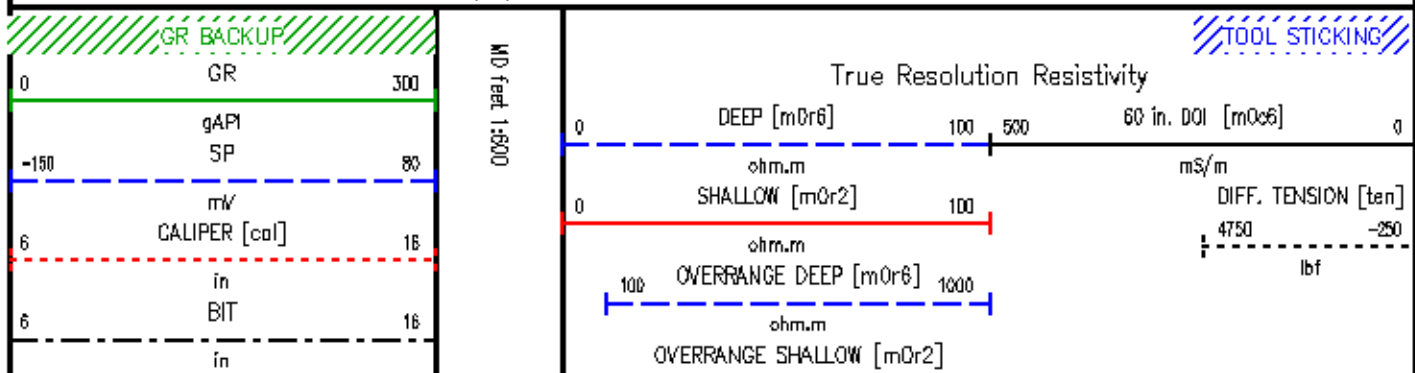
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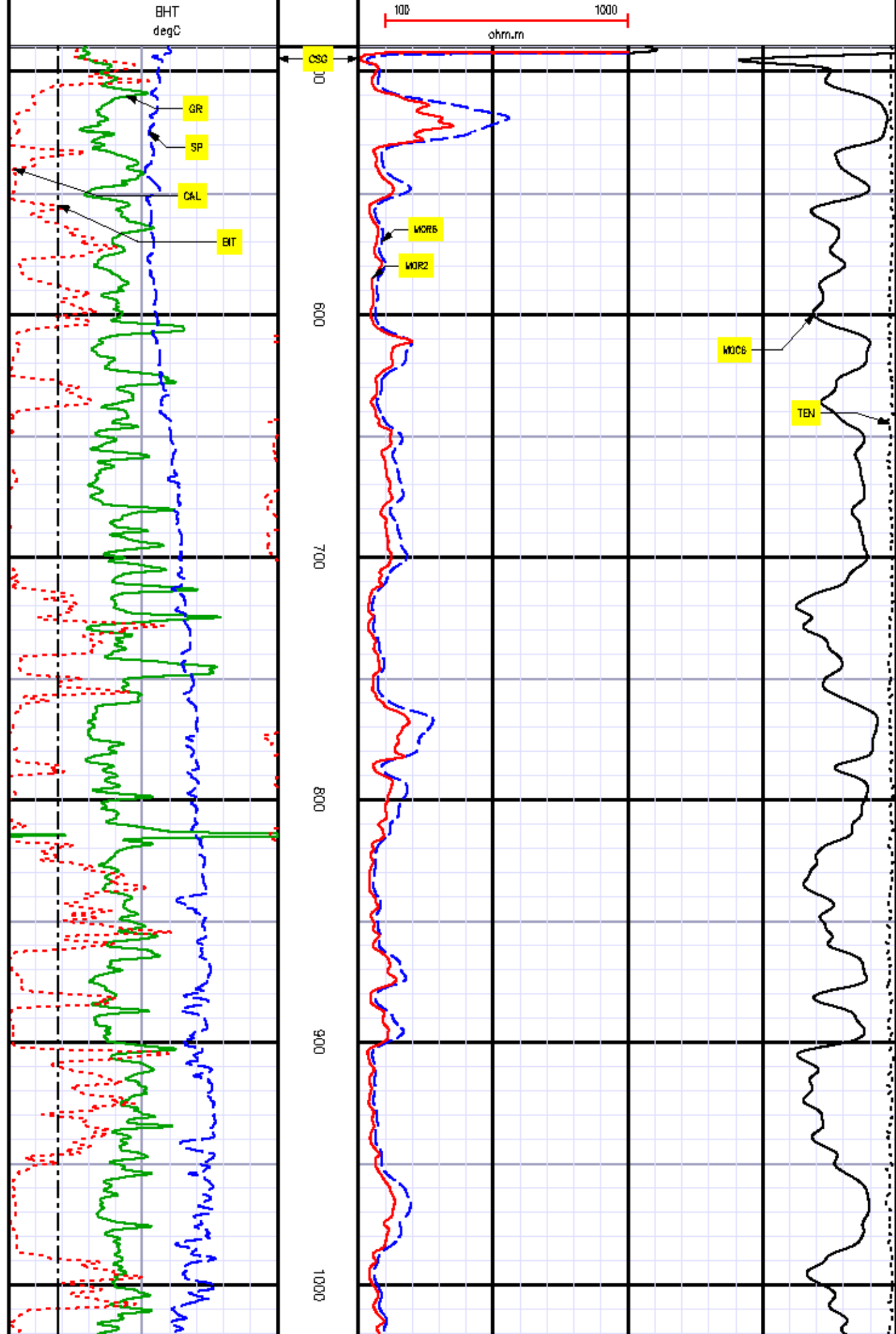
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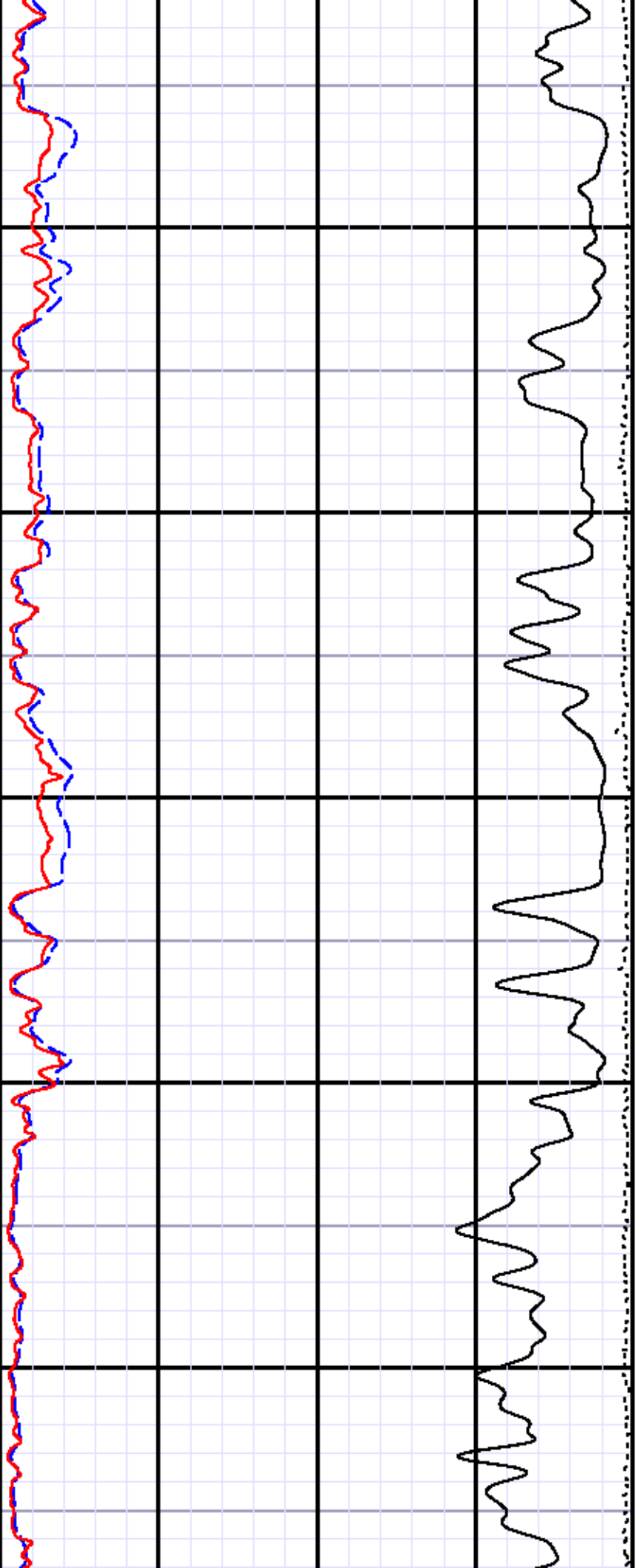
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Baker Atlas







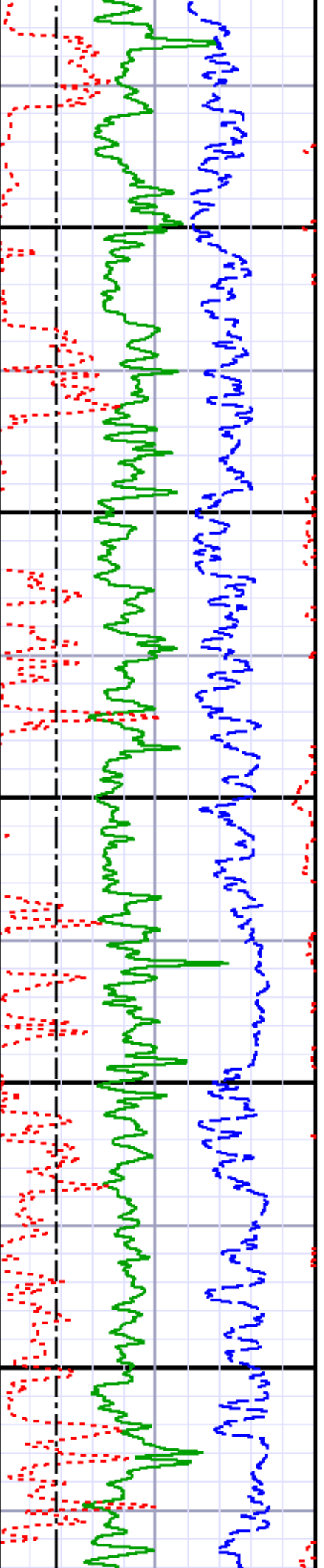
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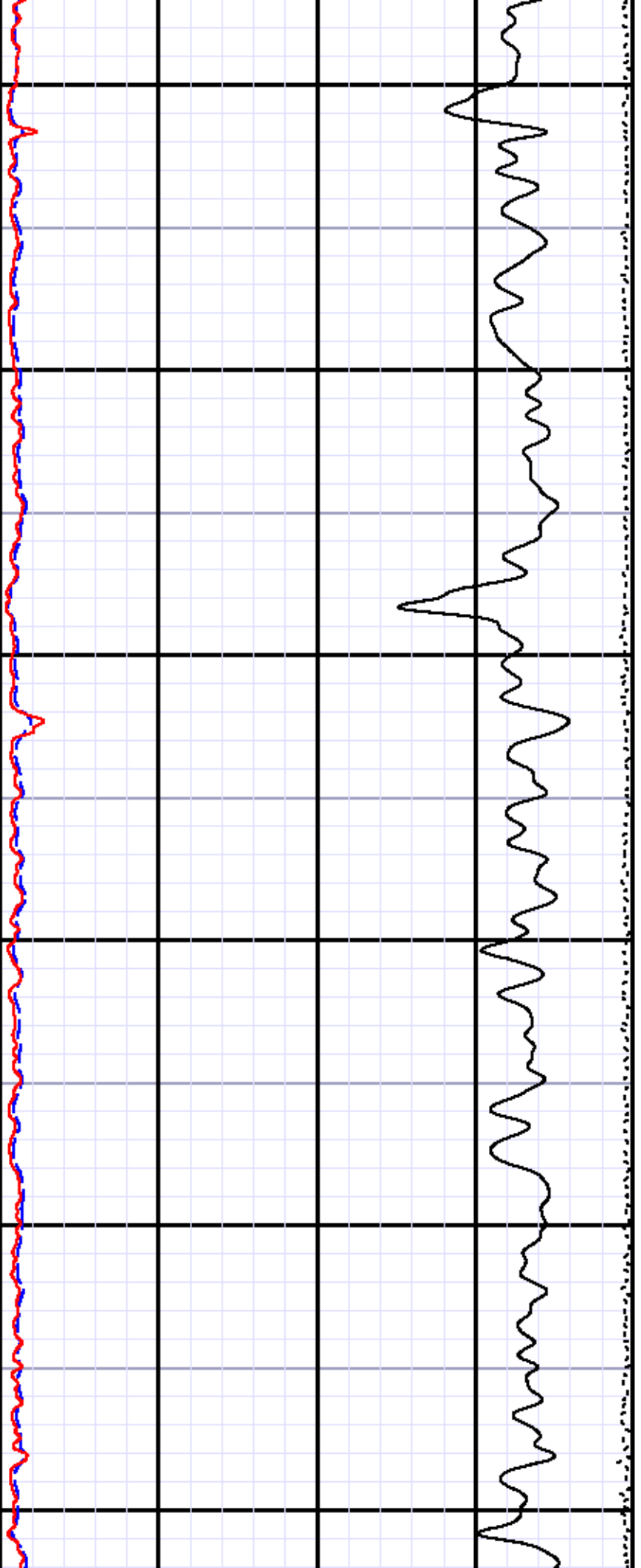
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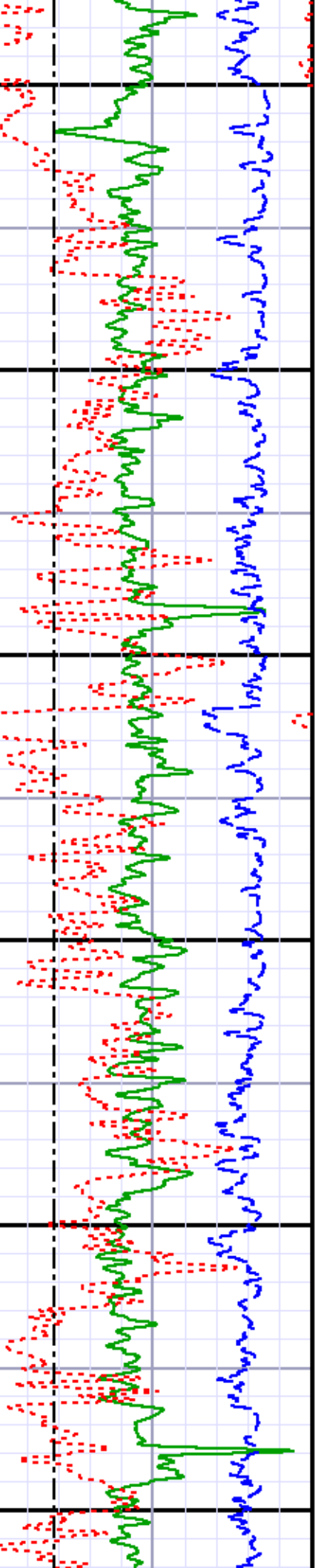
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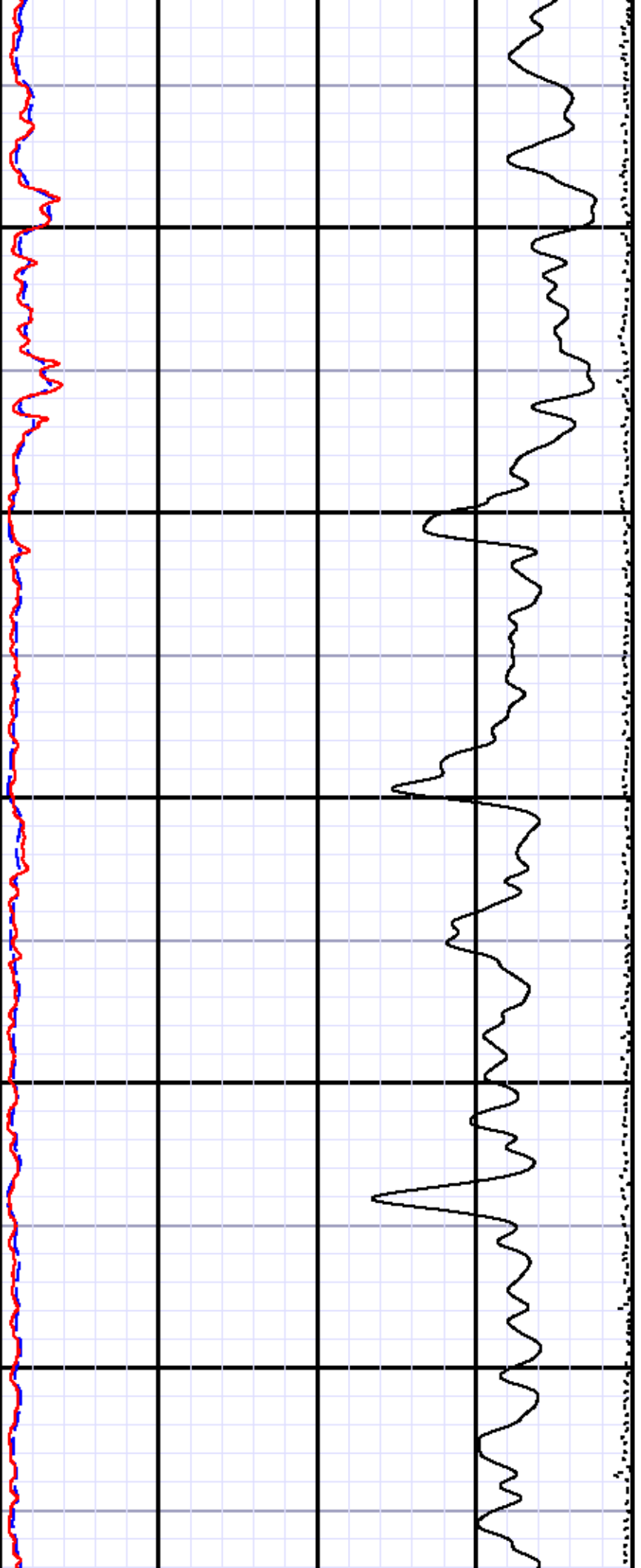
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1600 1700 1800 1900 2000 2100





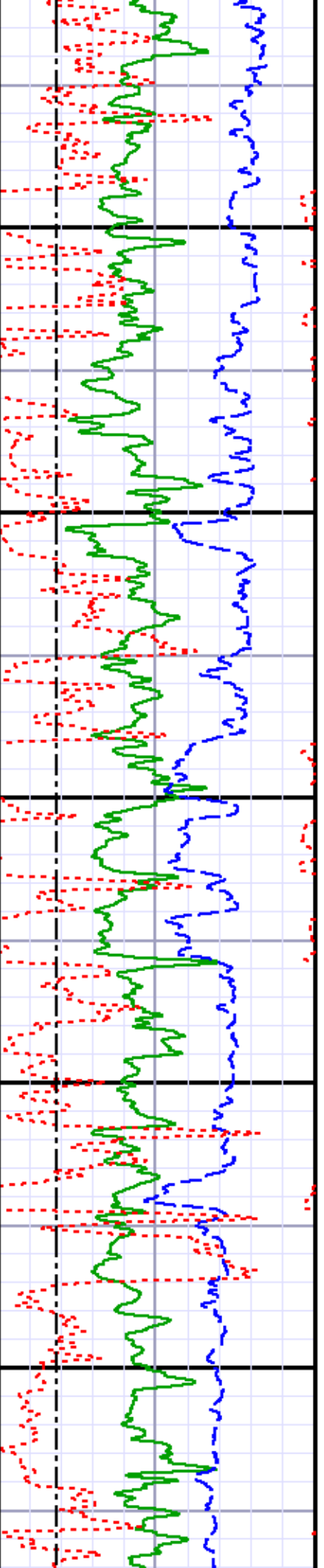
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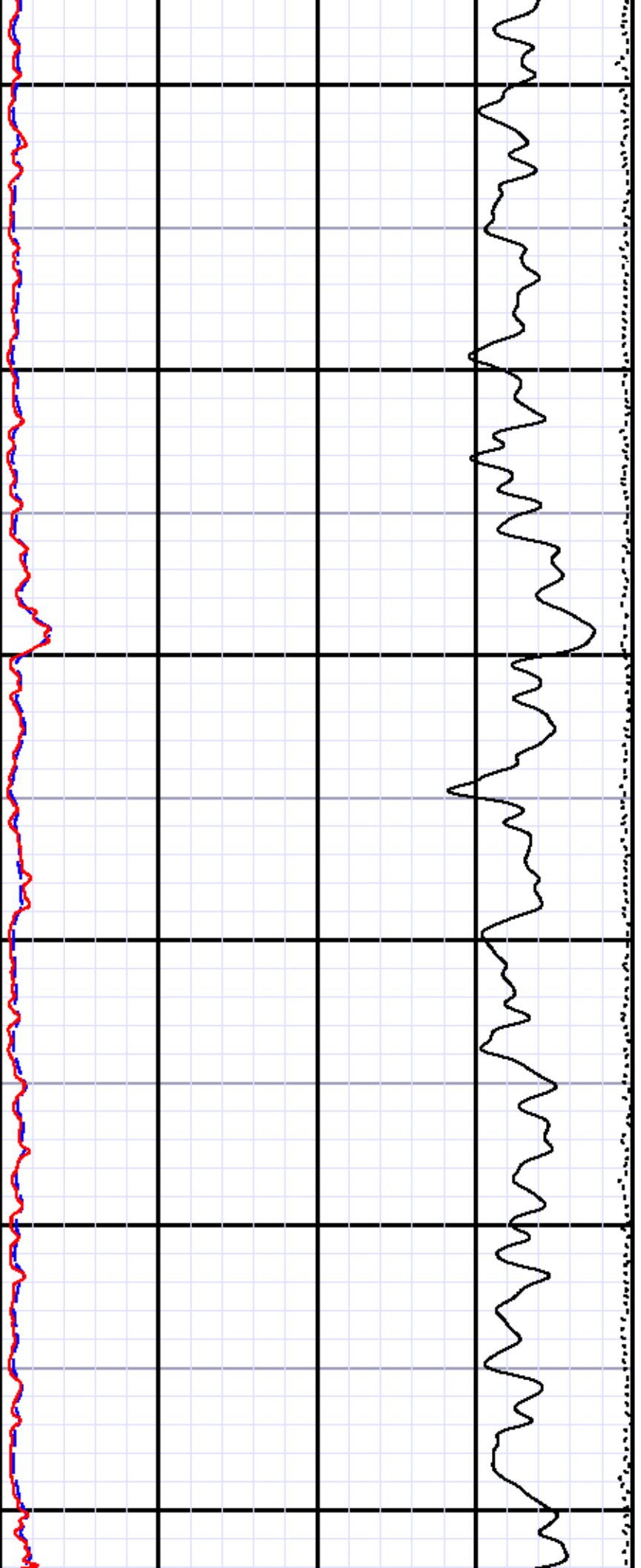
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2400

2500

2600





2700

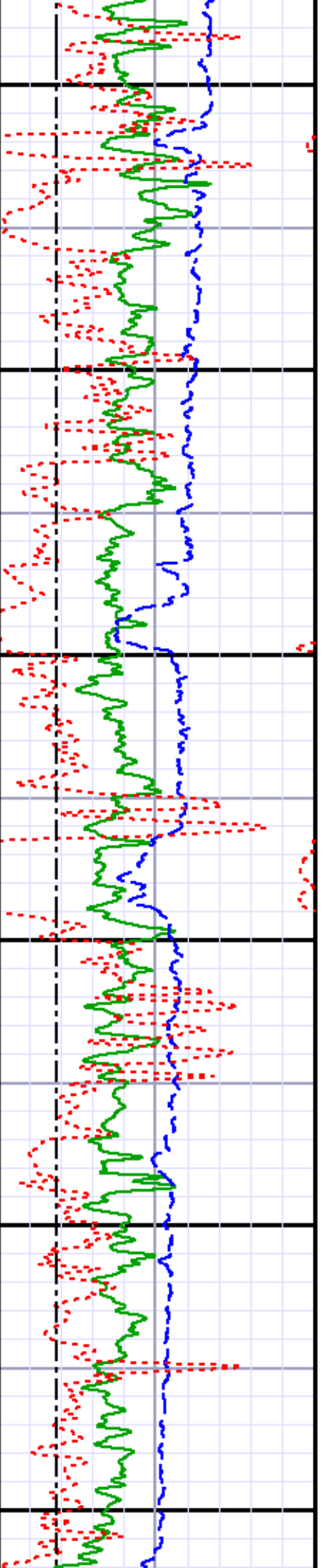
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2900

3000

3100

3200





3300

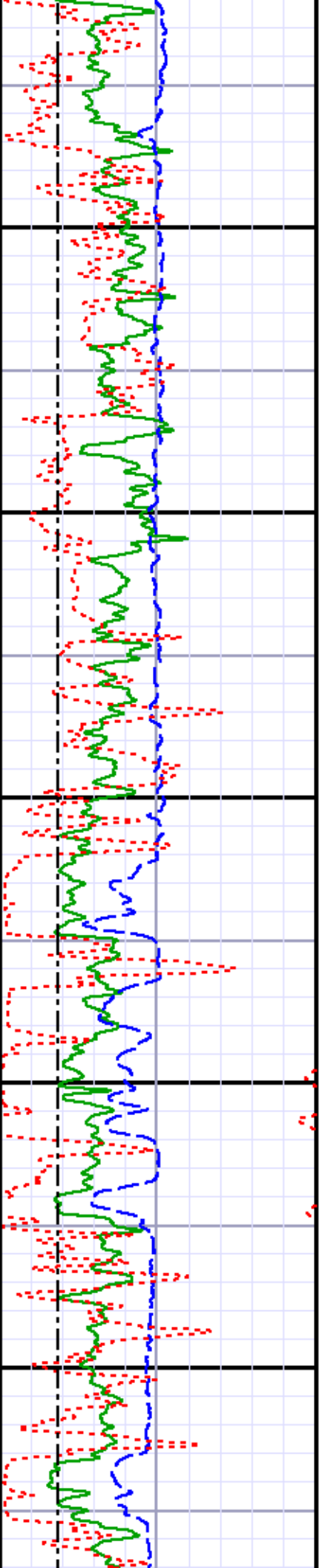
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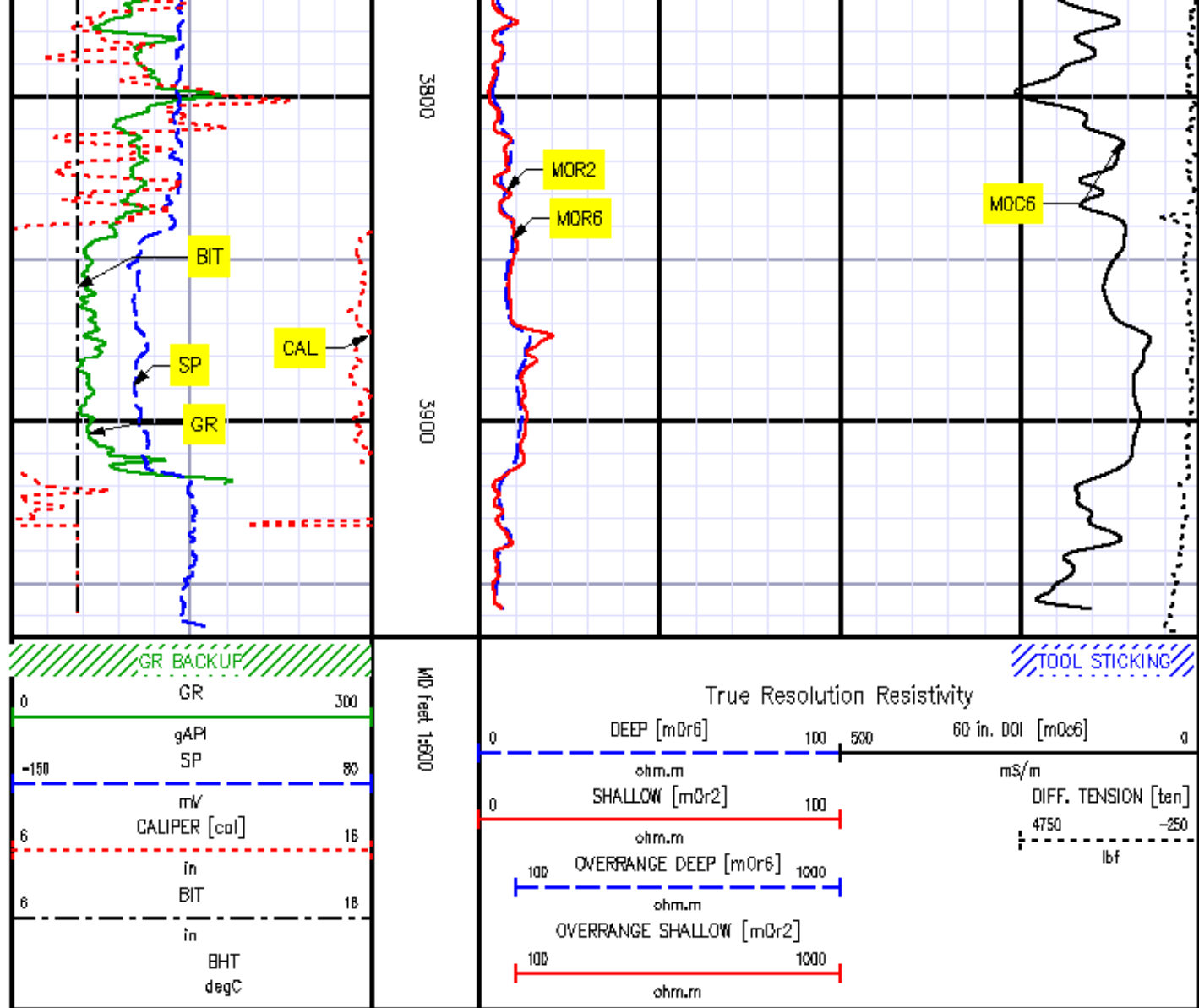
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3600

3700

TEN





MAIN LOG 5"/ 100 FT SCALE

Parameter & Filter History Report

FILE: C:\WellData\WEXPRO_COMPANY\STEWART_#5\1\1\MAINLOG.prm
 TIME COMPLETED: August 22, 2007 10:44
 LOGGING MODE: DEPTH UP
 TOP DEPTH: 5.1 ft BOTTOM DEPTH: 3966.8 ft

Filters

Curve	Tool	Filter	Top	Bottom
CALM	ML	Light	5.1	3966.8

CALX	ZDEN	Medium	5.1	3966.8
CHT	TTWA	Medium	5.1	3966.8
GR	GR	Medium	5.1	3966.8
HRD1	ZDEN	Medium	5.1	3966.8
HRD1S	ZDEN	Medium	5.1	3966.8
HRD2	ZDEN	Medium	5.1	3966.8
HRD2S	ZDEN	Medium	5.1	3966.8
LSN	CN	Medium	5.1	3966.8
RLML	ML	Spt Gaussian	5.1	3966.8
RNML	ML	Spt Gaussian	5.1	3966.8
SFT2	ZDEN	Medium	5.1	3966.8
SFT2S	ZDEN	Medium	5.1	3966.8
SHR	ZDEN	Medium	5.1	3966.8
SOFT	ZDEN	Medium	5.1	3966.8
SOFTS	ZDEN	Medium	5.1	3966.8
SP	TEL	Medium	5.1	3966.8
SPD	DAPS	Medium	5.1	3966.8
SSD	ZDEN	Medium	5.1	3966.8
SSN	CN	Medium	5.1	3966.8
TEN	DAPS	Medium	5.1	3966.8
TTEN	DAPS	Medium	5.1	3966.8

Induction [HDIL]					
Measurement Type	Parameter	Value	Units	Top	Bottom
ADAPTIVE BOREHOLE CORR.	ABC PROCESSING	On		5.1	3966.8
ADAPTIVE BOREHOLE CORR.	ABC To CALCULATE	Standoff		5.1	3966.8
ADAPTIVE BOREHOLE CORR.	Rmud MULTIPLIER	1.000		5.1	3966.8
ADAPTIVE BOREHOLE CORR.	STANDOFF	1.200	in	5.1	3966.8
ADAPTIVE BOREHOLE CORR.	TOOL POSITION	Eccentered		5.1	3966.8
B.H. CORR. DIAM. SOURCE	BH DIAMETER SOURCE	Caliper		5.1	3966.8
BOREHOLE CORR DIAM.	BIT SIZE	7.875	in	5.1	3966.8
HDIL TEMPERATURE CORR.	TEMP CORR SOURCE	Receiver		5.1	3966.8
MUD VALUES	MUD REFERENCE TEMP	98.50	degF	5.1	3966.8
MUD VALUES	MUD SAMPLE RES	1.0	ohm.m	5.1	3966.8
MUD VALUES	MUD SAMPLE TEMP	102.00	degF	5.1	3966.8
MUD VALUES	TEMP GRADIENT	1.20	degF/100ft	5.1	3966.8
MUD VALUES SOURCE	RMUD SOURCE (HDIL)	Tool Measured		5.1	3966.8

Telemetry [TEL]					
Measurement Type	Parameter	Value	Units	Top	Bottom
SP	SOURCE	SURFACE		5.1	3966.8

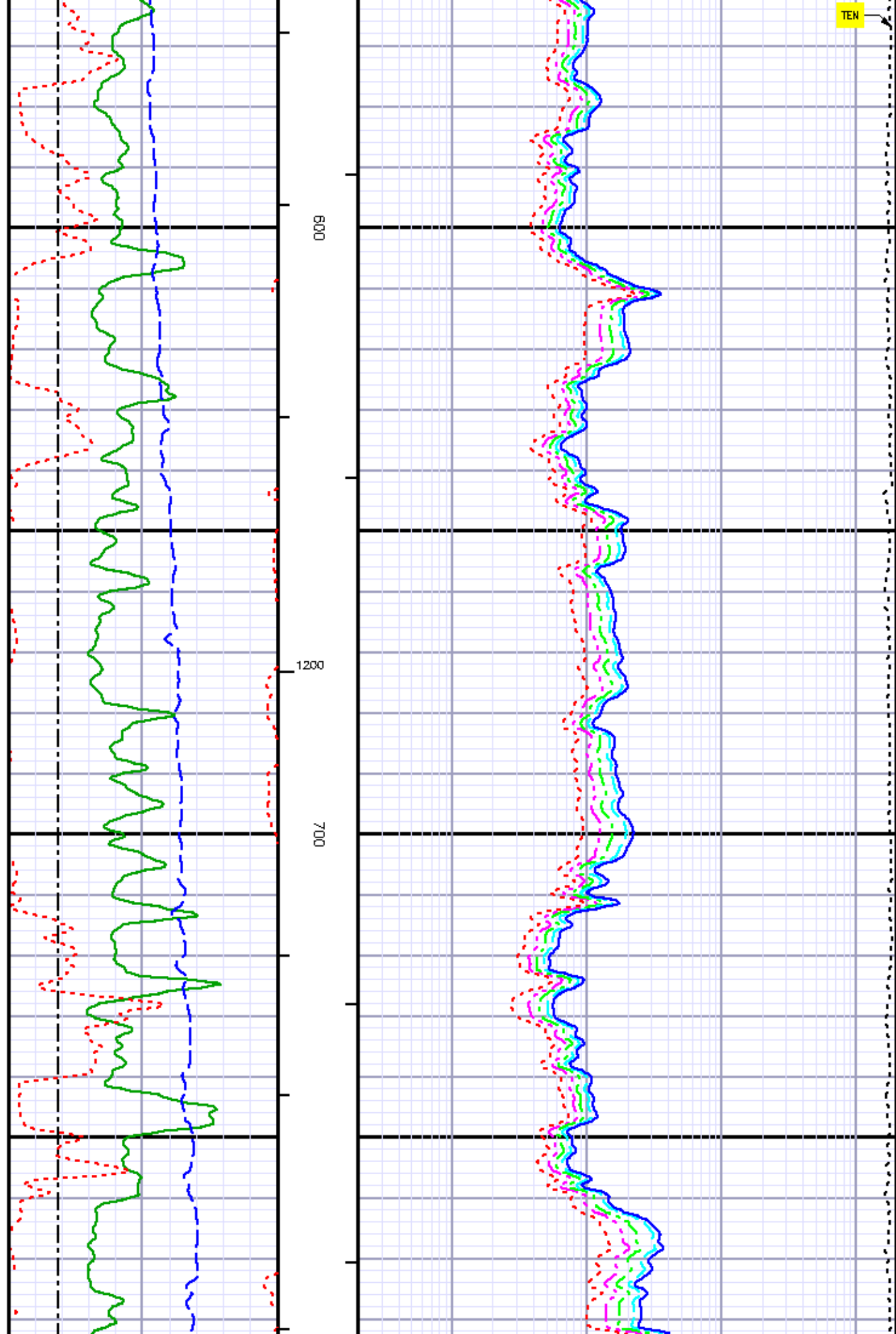
Curve Measure Point Offset [CN]							
CURVES	OFFSET (ft)	CURVES	OFFSET (ft)	CURVES	OFFSET (ft)	CURVES	OFFSET (ft)
CNC	-40.8	CNCF	-40.8				

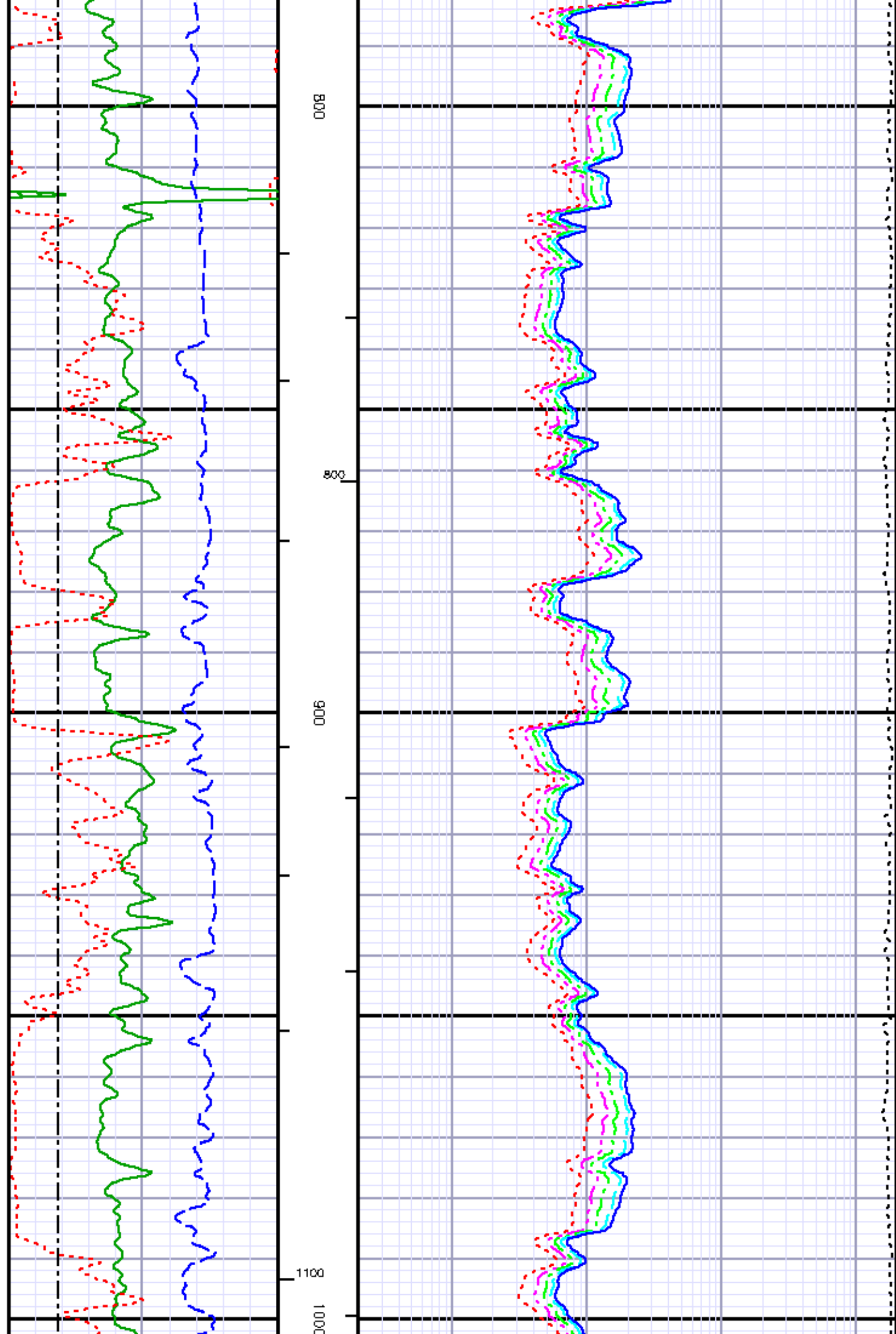
Curve Measure Point Offset [DAPS]							
CURVES	OFFSET (ft)	CURVES	OFFSET (ft)	CURVES	OFFSET (ft)	CURVES	OFFSET (ft)

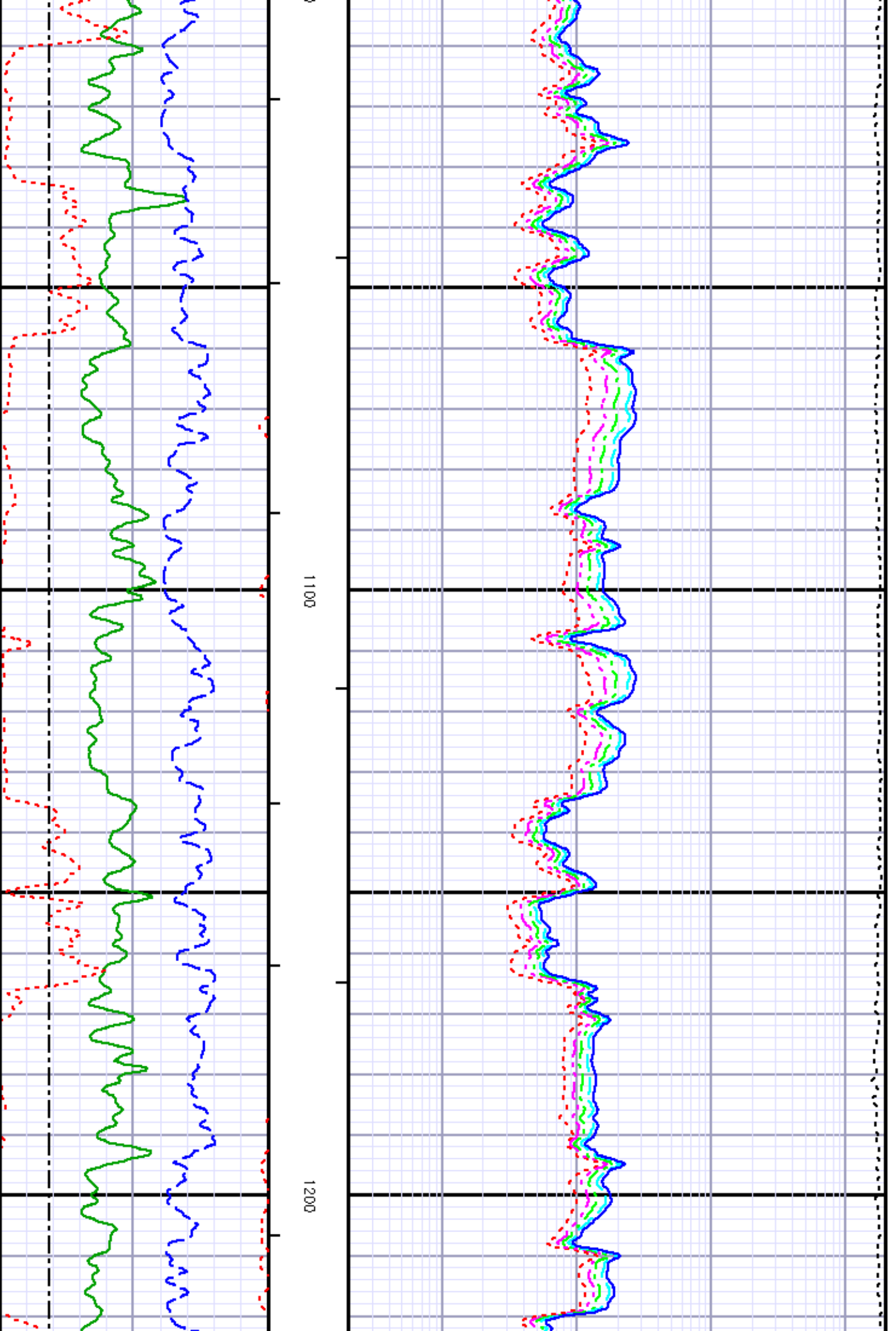
CURVES	OFFSET (ft)	CURVES	OFFSET (ft)	CURVES	OFFSET (ft)	CURVES	OFFSET (ft)
SPD	0.0	SPDGR	0.0	TEN	0.0	TENGR	0.0
TTEN	0.0	TTENGR	0.0				
Curve Measure Point Offset [GR]							
CURVES	OFFSET (ft)	CURVES	OFFSET (ft)	CURVES	OFFSET (ft)	CURVES	OFFSET (ft)
GR	-46.5						
Curve Measure Point Offset [HDIL]							
CURVES	OFFSET (ft)	CURVES	OFFSET (ft)	CURVES	OFFSET (ft)	CURVES	OFFSET (ft)
M2R1	-3.2	M2R2	-3.2	M2R3	-3.2	M2R6	-3.2
M2R9	-3.2						
Curve Measure Point Offset [ML]							
CURVES	OFFSET (ft)	CURVES	OFFSET (ft)	CURVES	OFFSET (ft)	CURVES	OFFSET (ft)
CALM	-18.3	RLML	-18.3	RNML	-18.3		
Curve Measure Point Offset [TEL]							
CURVES	OFFSET (ft)	CURVES	OFFSET (ft)	CURVES	OFFSET (ft)	CURVES	OFFSET (ft)
SP	-1.7						
Curve Measure Point Offset [TTMA]							
CURVES	OFFSET (ft)	CURVES	OFFSET (ft)	CURVES	OFFSET (ft)	CURVES	OFFSET (ft)
CHT	0.0	CHTGR	0.0	MDTWP	-54.7		
Curve Measure Point Offset [ZDEN]							
CURVES	OFFSET (ft)	CURVES	OFFSET (ft)	CURVES	OFFSET (ft)	CURVES	OFFSET (ft)
CALX	-33.6	FE	-31.0	FORZ	-31.0	ZDEN	-31.0

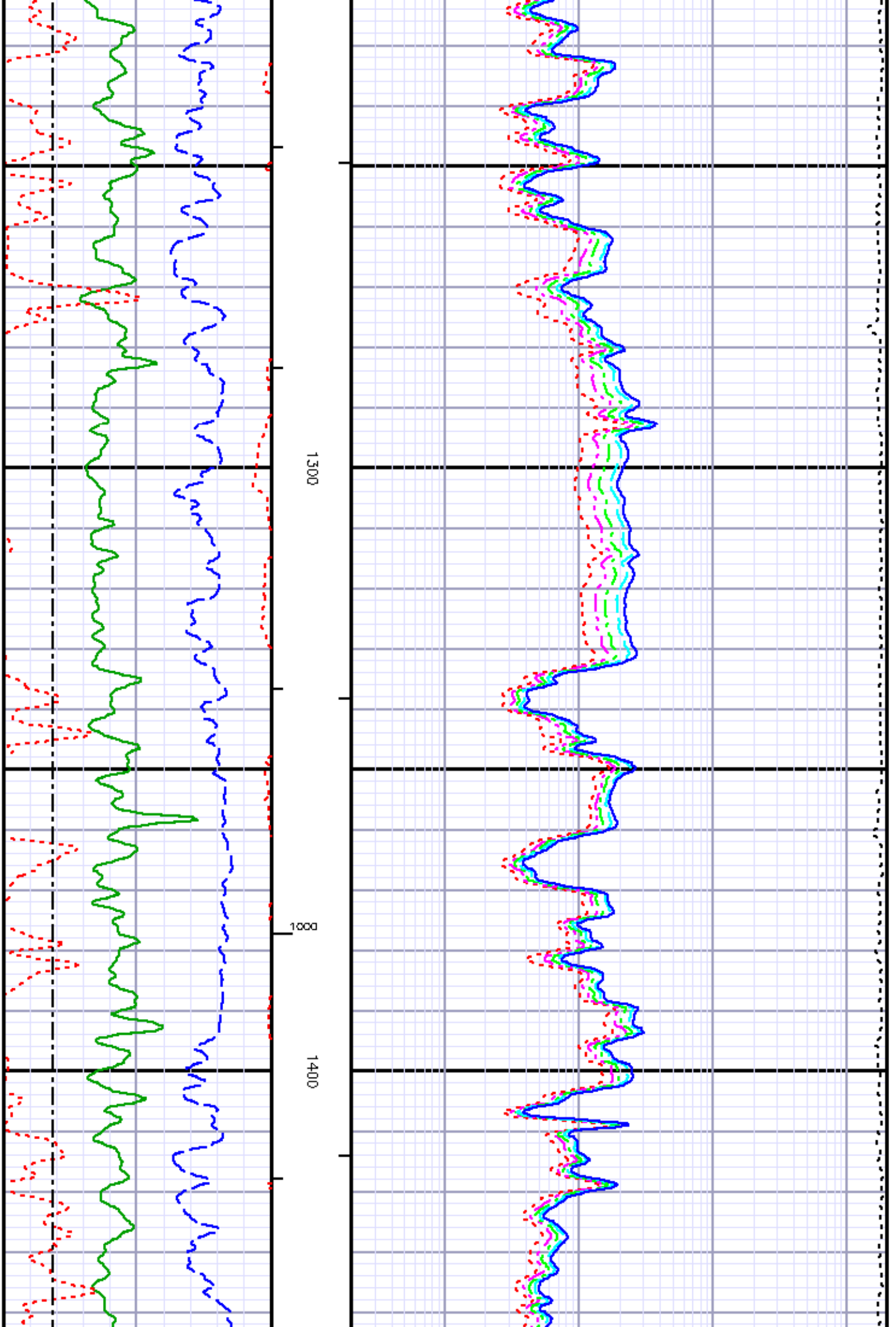
Acquisition and Processing History Report						
FILE:	C:\WellData\MEXPRO_COMPANY\STEWART_#5\1\1\MAIN00.aph					
TIME COMPLETED:	August 22, 2007 10:44					
LOGGING MODE:	DEPTH UP					
TOP DEPTH:	5.1	ft	BOTTOM DEPTH:	3966.8	ft	
Acquisition and Processing Setup						
Instrument	Subset	Acq Mode	Acq Rate	Primary Rate	Secondary Rate	
TTMA	2	Time Always	1.000	0.250	None	
TEL	1	Time Always	0.250	0.250	None	
GR	0	Time Always	0.250	0.250	0.125	
CN	0	Time Always	0.250	0.250	0.125	
ZDEN	0	Time Always	0.250	0.250	0.125	
ML	0	Time Always	0.250	0.250	None	
HDIL	1	Time Always	0.250	0.250	None	

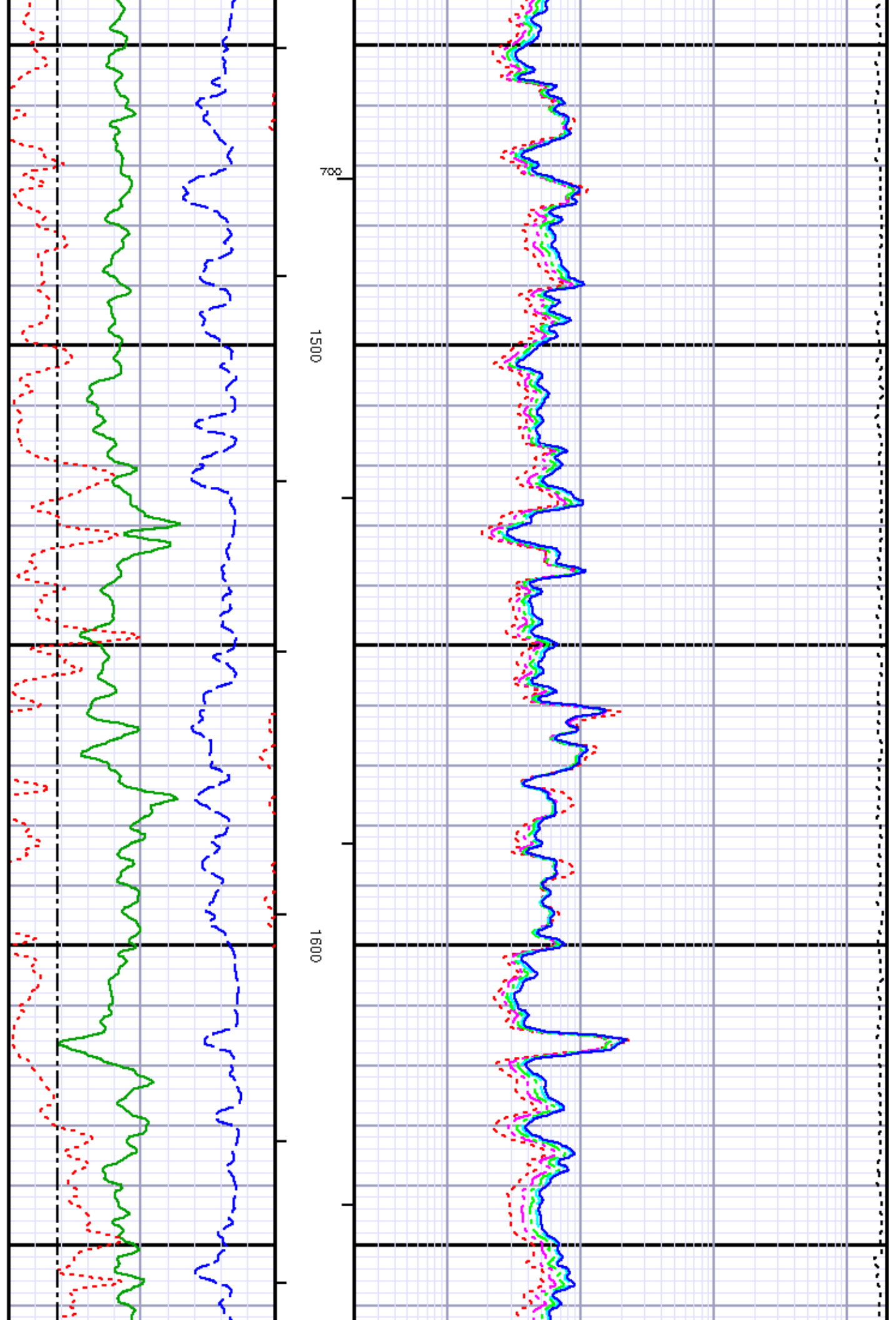
DAPS	3	Time Always	0.250	0.250	0.125
DAPS	4	Time Always	0.250	0.250	0.125
Secondary Processing History					
Instrument	Subset	VALUE	TOP	BOTTOM	
CN	0	OFF	5.1	3966.8	
DAPS	3	OFF	5.1	3966.8	
DAPS	4	OFF	5.1	3966.8	
GR	0	OFF	5.1	3966.8	
ZDEN	0	OFF	5.1	3966.8	

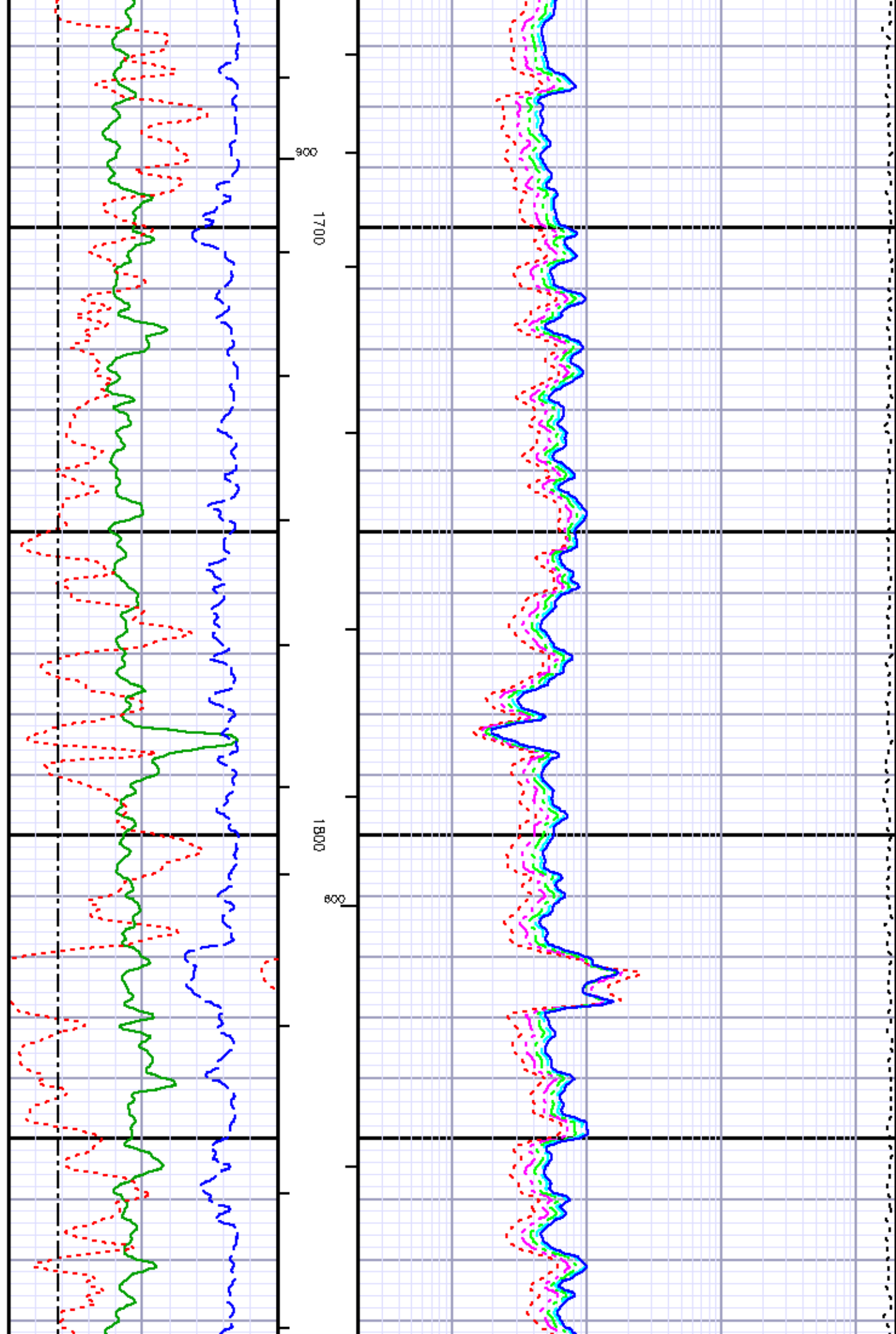


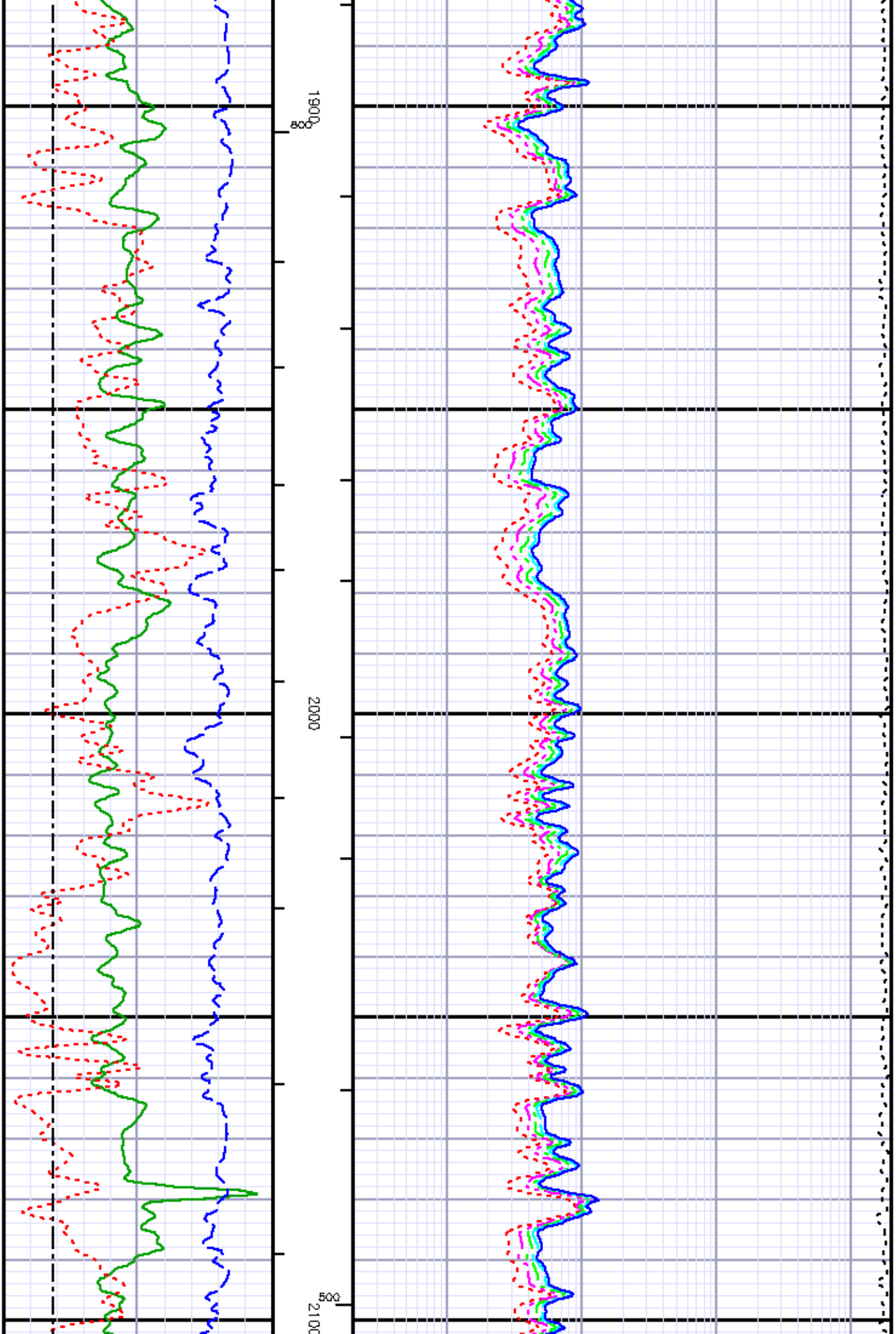


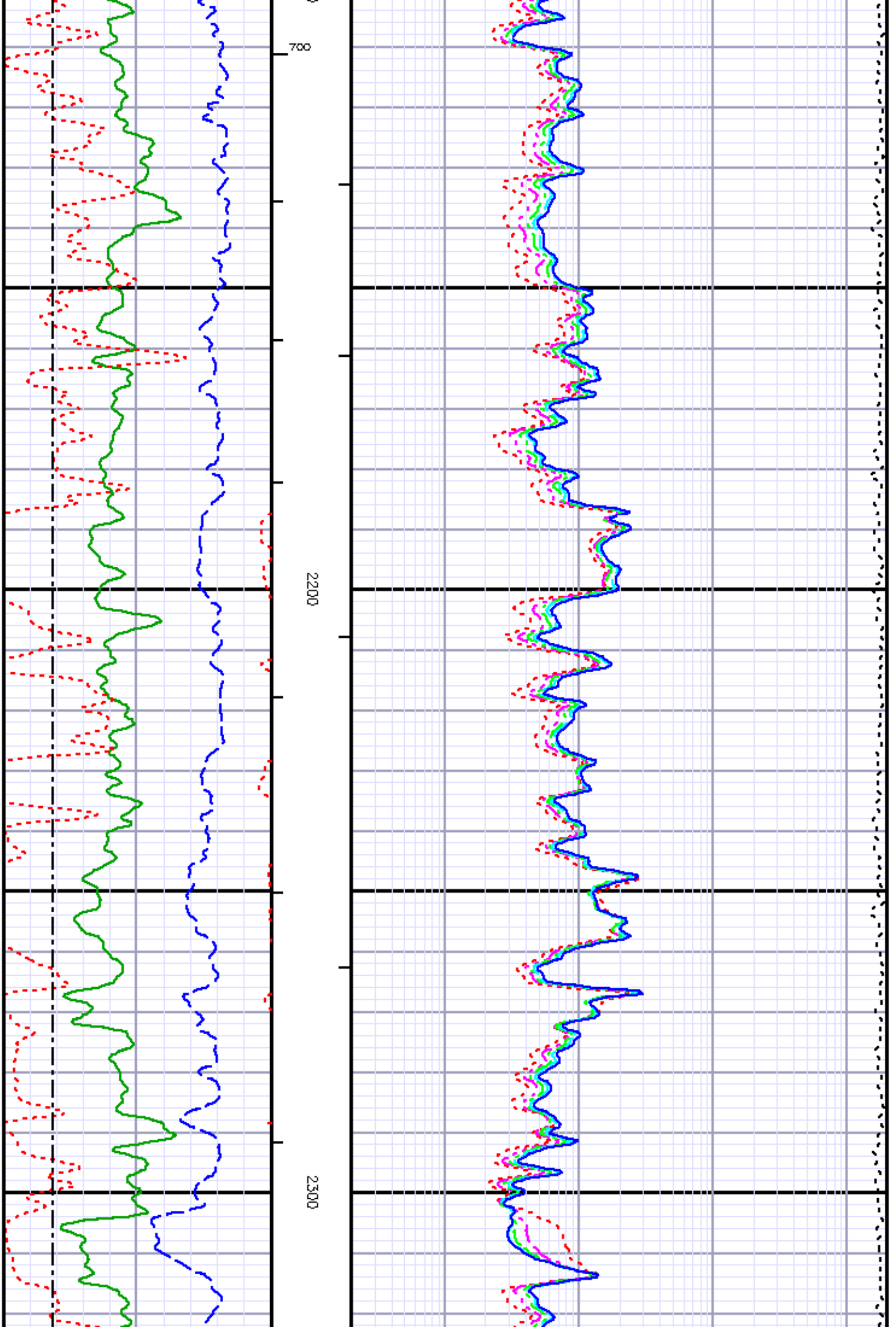


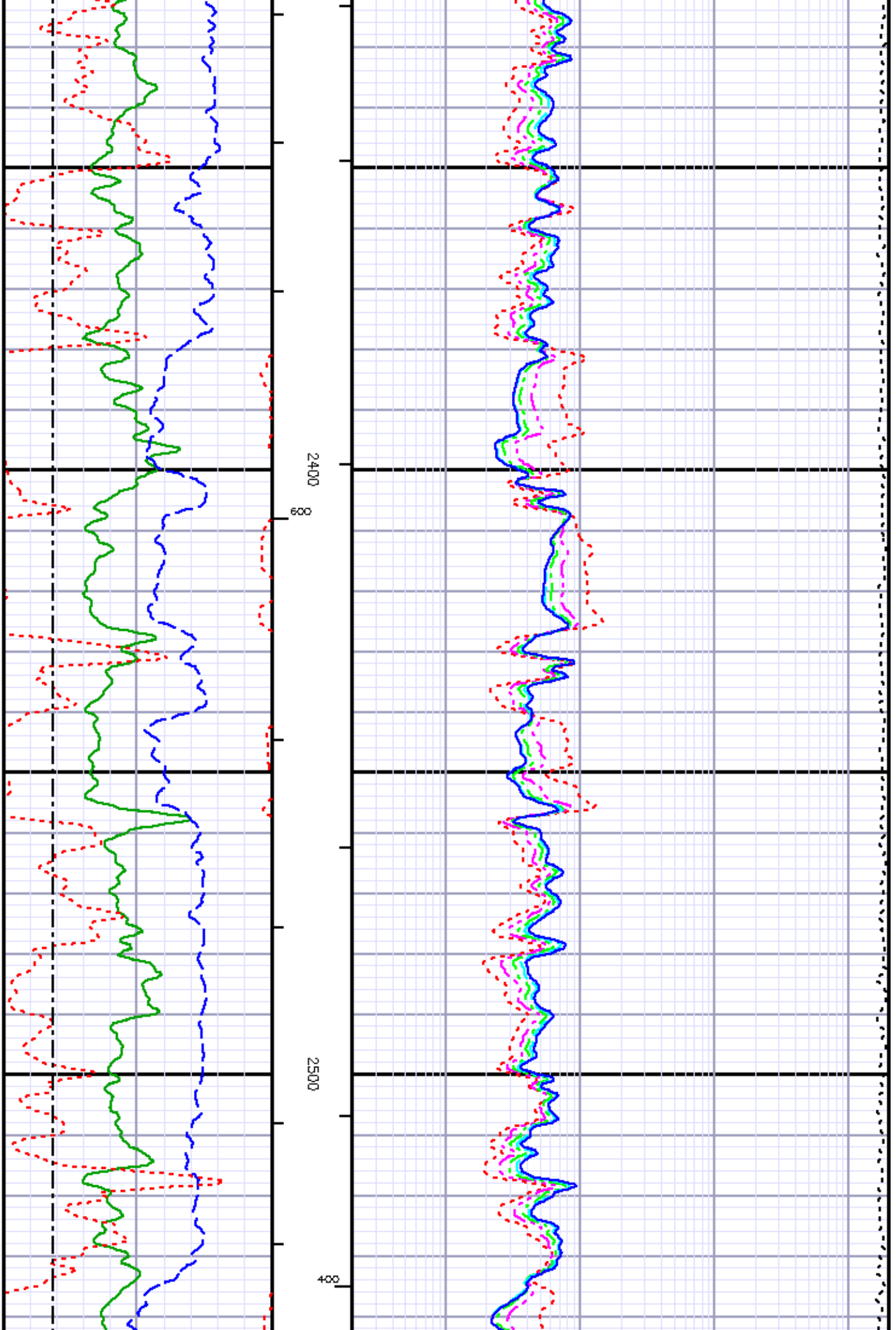


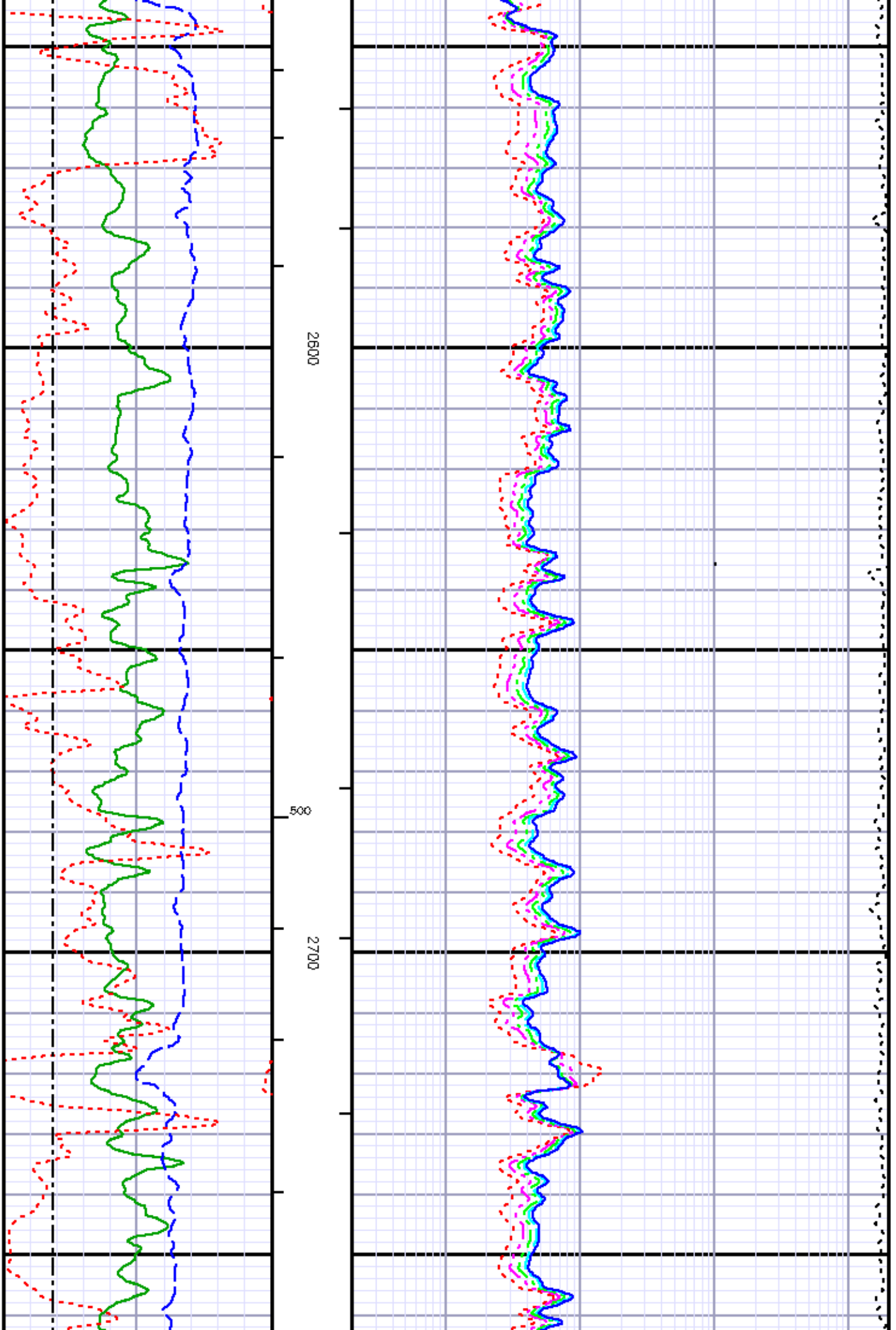


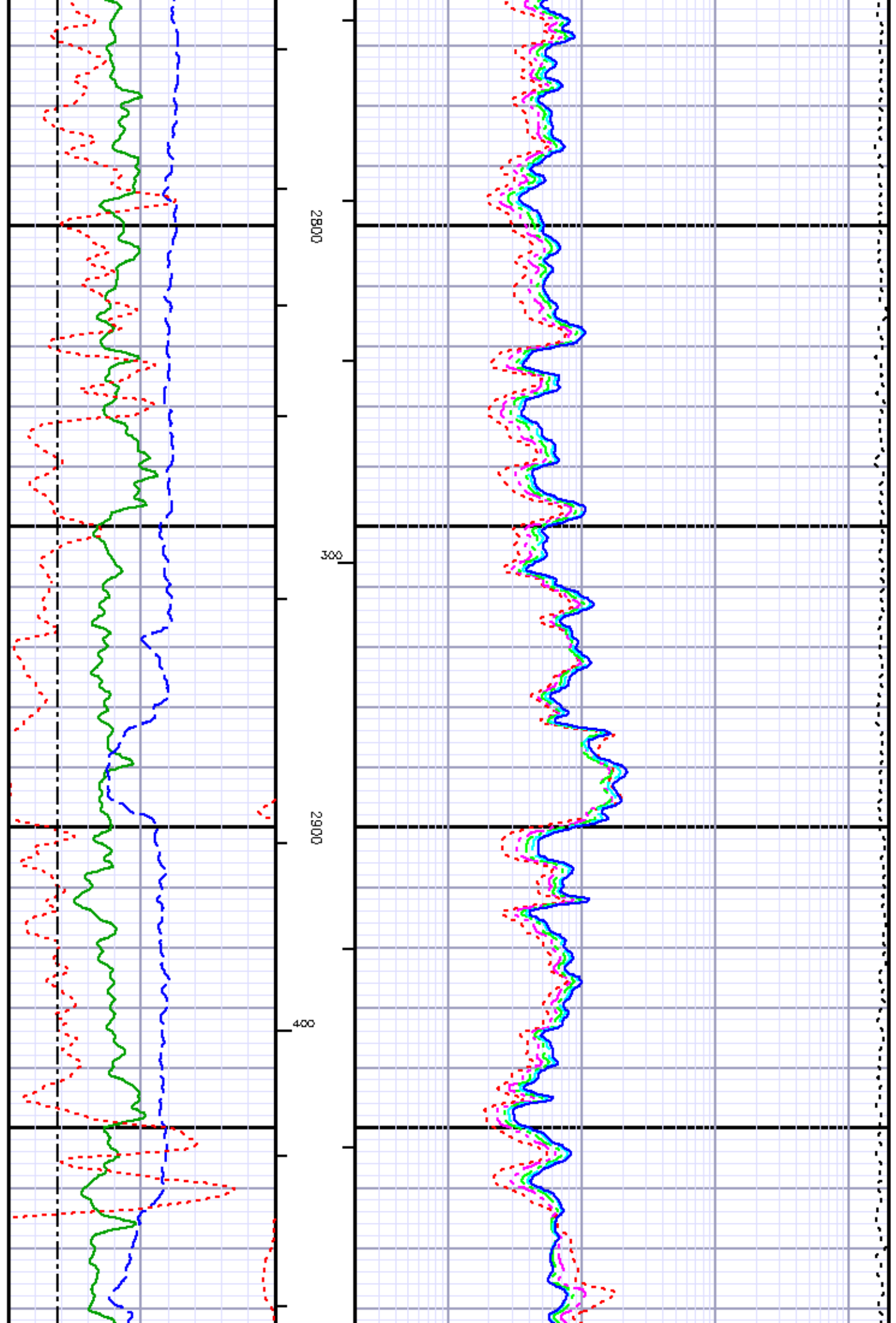


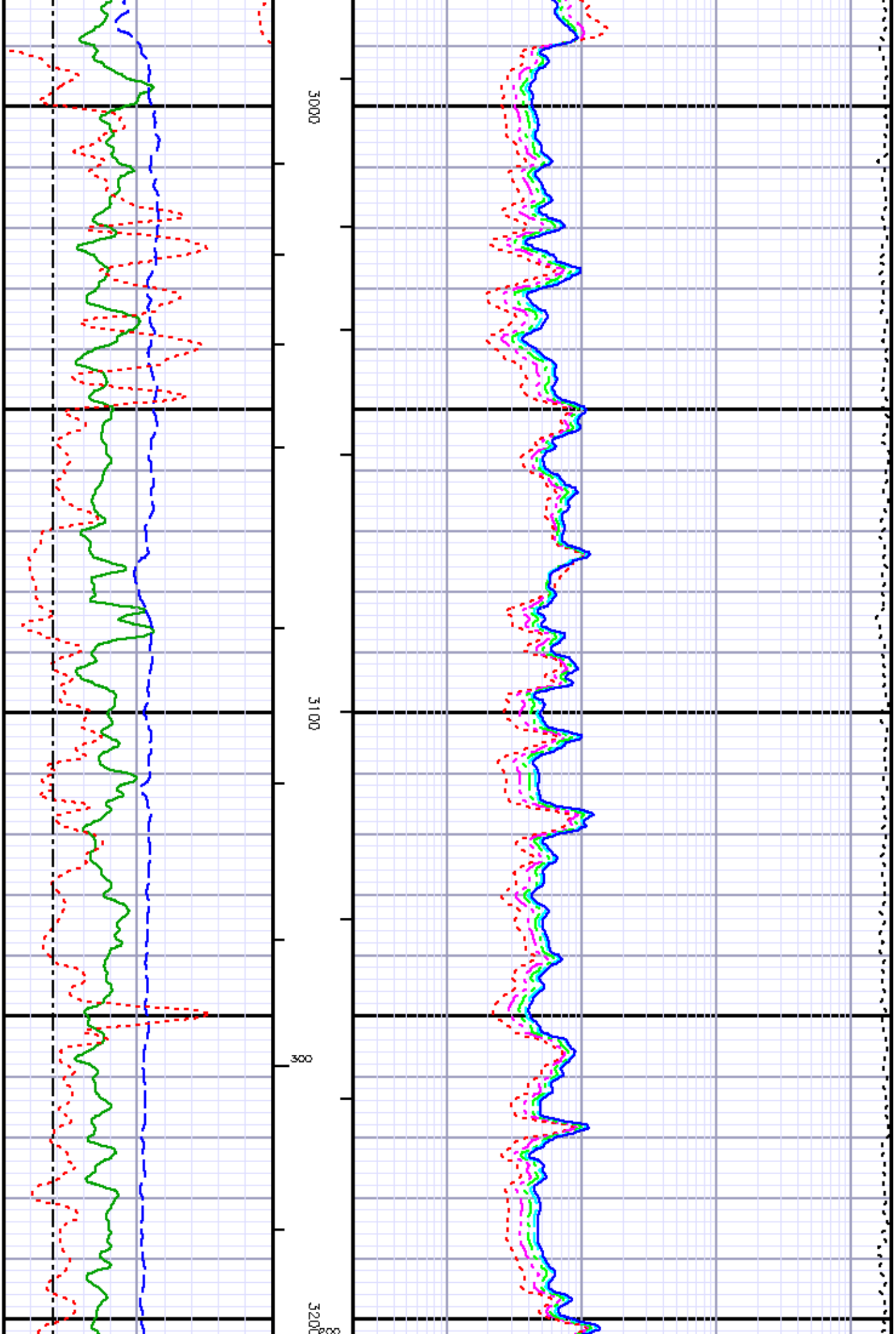


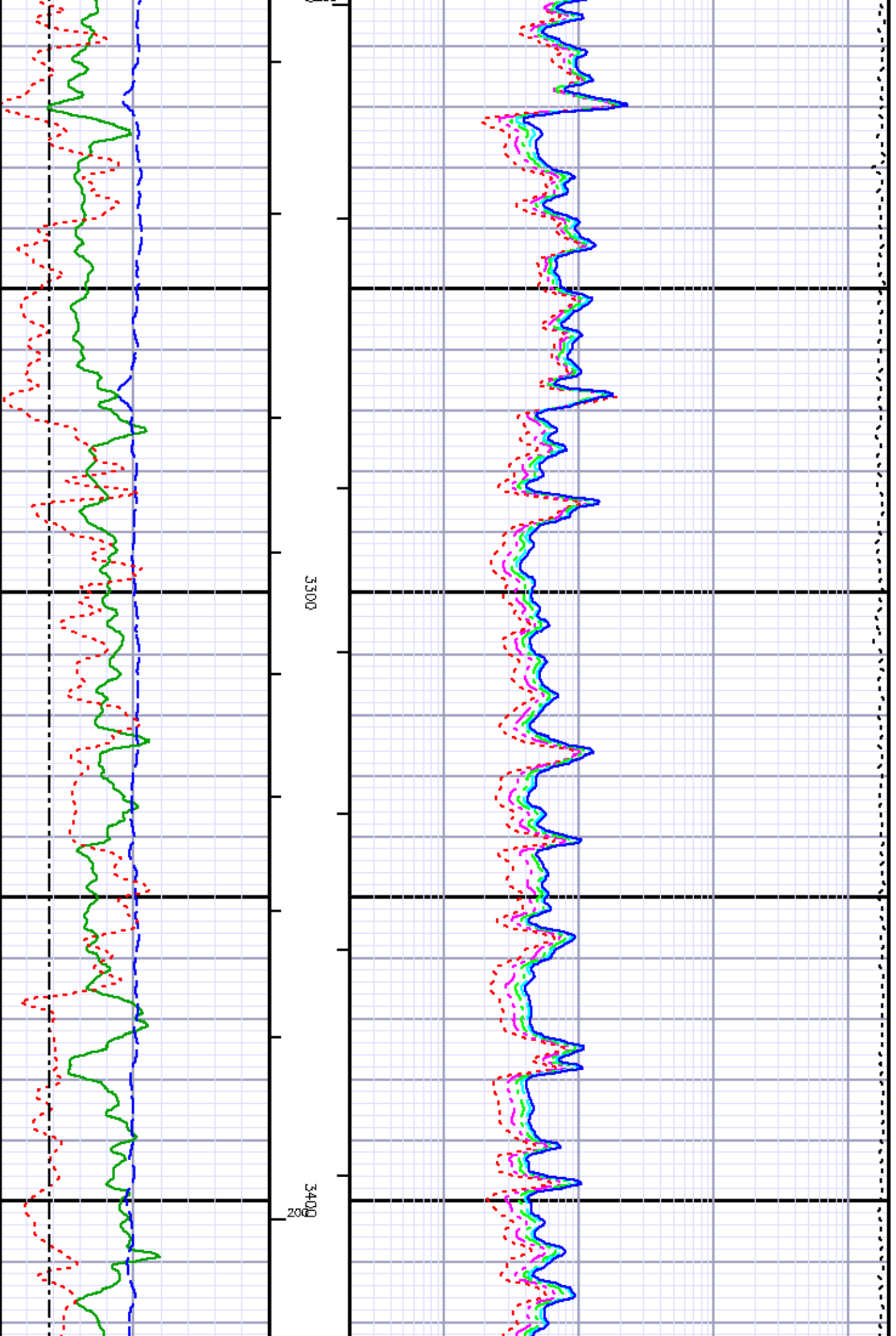


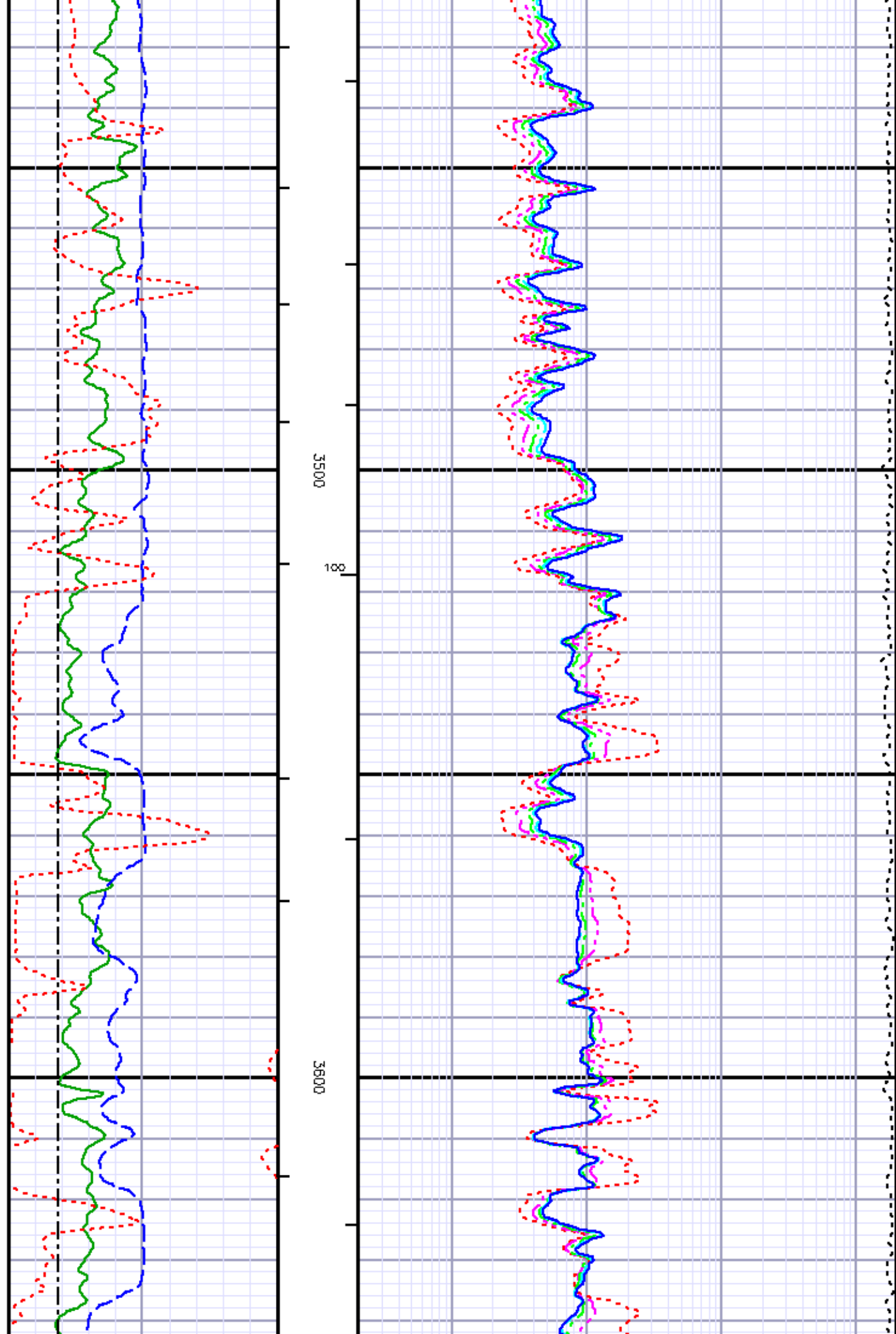


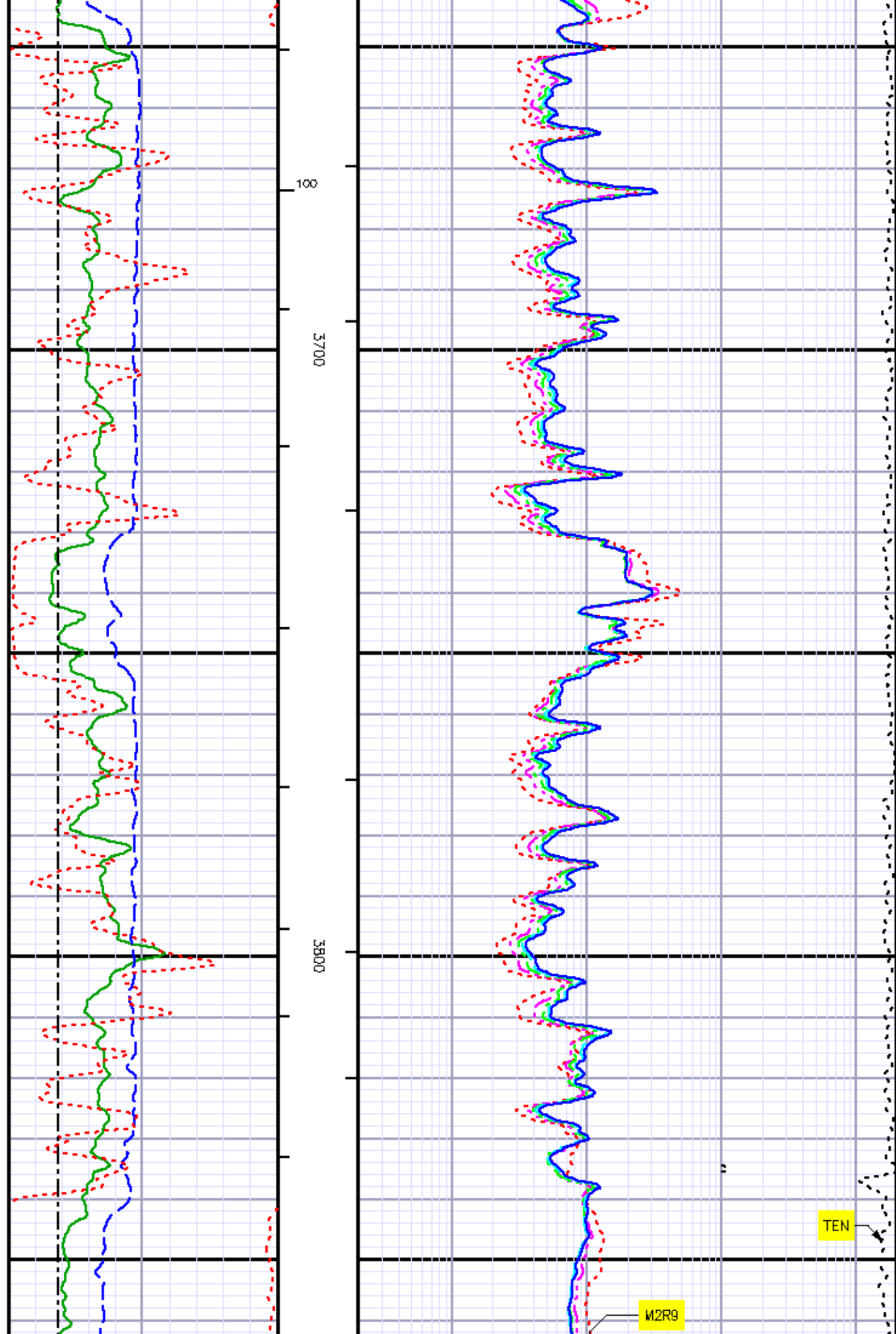


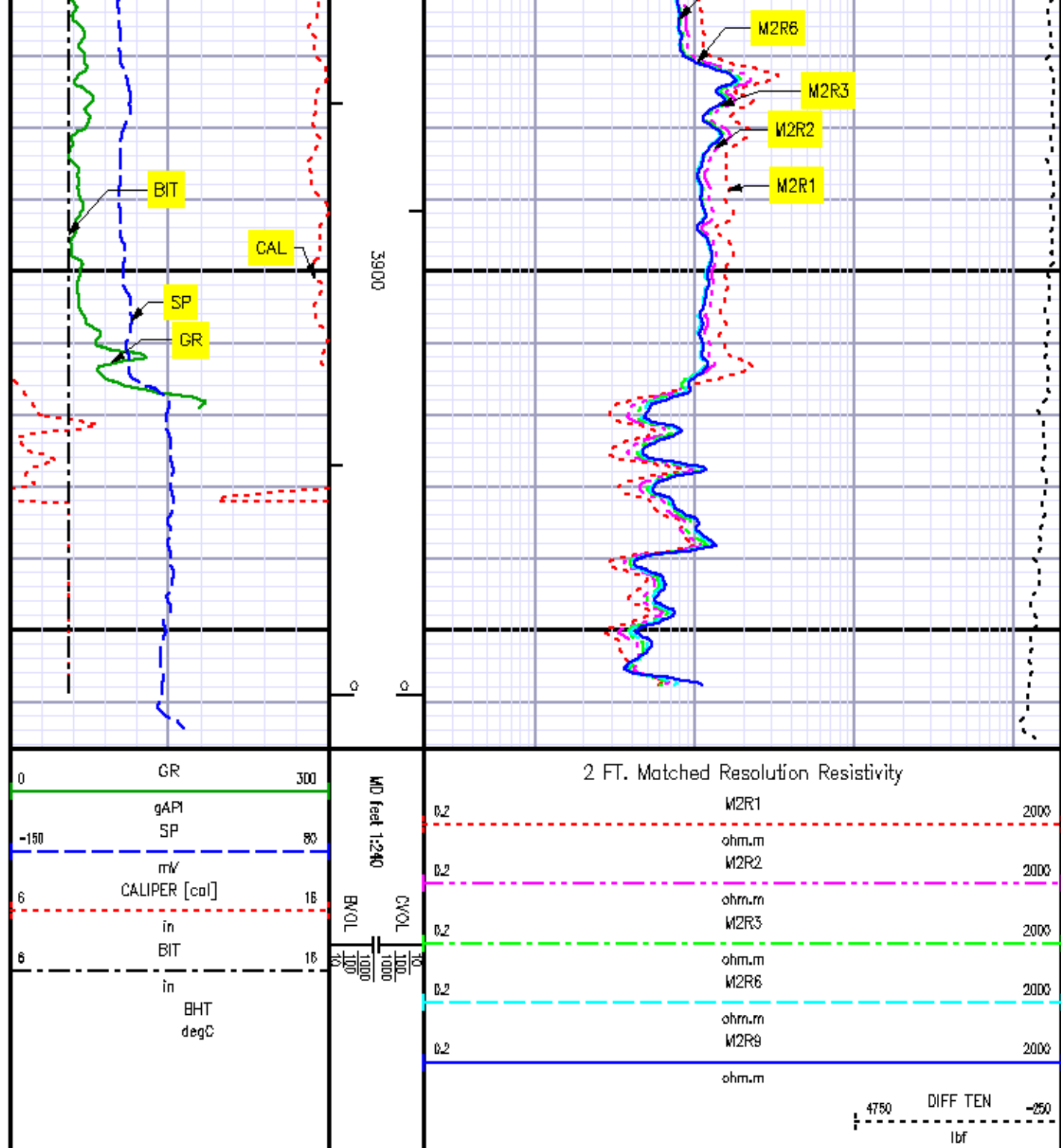












GR PRIMARY CALIBRATION SUMMARY

			-0.1	0.1	-0.1	0.1	-0.1	0.1	-0.1	0.1	-0.1	0.1
Coil	4	R	-0.001	-0.001	0.003	0.002	-0.006	0.001	0.000	0.001		
			-0.4	0.6	-3.2	0.2	-6.2	0.2	-0.2	0.2	-0.2	0.2
Coil	4	Q	0.007	0.000	0.004	-0.001	-0.006	-0.003	0.000	-0.002		
			-1	1	-0.4	0.4	-0.2	0.2	-0.2	0.2	-0.2	0.2
Coil	5	R	0.020	0.012	-0.008	0.003	-0.012	-0.008	-0.016	-0.005		
			-1.2	1.2	-0.4	0.4	-0.4	0.4	-0.4	0.4	-0.4	0.4
Coil	5	Q	-0.002	-0.018	0.001	0.012	0.003	0.004	-0.001	0.000		
			-1.4	1.6	-3.8	0.8	-6.4	0.4	-0.4	0.4	-0.4	0.4

ELEC. GAINS		10 kHz	30 kHz	50 kHz	70 kHz	90 kHz	110 kHz	130 kHz	150 kHz
Coil 0	M	160.03	158.59	155.67	151.38	146.71	138.78	130.88	121.43
		136 186	134 184	131 181	126 176	122 170	118 161	112 160	108 158
Coil 0	P	7.4969	24.591	41.271	57.904	74.511	91.143	107.76	124.3
		8 9	21 30	36 50	49 71	63 91	77 109	92 130	108 161
Coil 1	M	281.79	279.43	274.69	267.6	258.16	246.48	232.49	216.51
		239 328	235 325	230 320	225 312	216 302	200 298	186 286	184 244
Coil 1	P	7.6324	25.031	42.036	59.021	76.026	93.091	110.21	127.3
		6 8	21 30	36 51	49 71	63 82	78 112	93 130	107 161
Coil 2	M	575.36	569.87	569.07	543.11	522.45	497.42	468.4	435.66
		479 659	474 654	463 643	450 622	432 602	412 572	540 540	359 469
Coil 2	P	7.6411	25.036	41.995	58.892	75.715	92.538	109.34	126.06
		8 8	21 31	35 51	49 71	63 92	76 115	92 135	105 135
Coil 3	M	916.51	908.8	893.17	869.63	838.56	799.82	754.01	700.62
		772 1080	784 1060	762 1030	738 1010	700 970	656 926	626 888	560 799
Coil 3	P	7.781	25.462	42.755	60.036	77.313	94.67	112.05	129.4
		8 10	21 30	35 51	49 72	63 93	78 114	90 135	104 158
Coil 4	M	1438.6	1427.1	1402	1364.7	1315.2	1254	1181.6	1099.1
		1219 1700	1209 1680	1180 1630	1149 1580	1120 1530	1079 1490	1000 1360	942 1240
Coil 4	P	7.6816	25.206	42.32	59.403	76.482	93.632	110.77	127.91
		8 10	21 31	36 52	49 73	65 93	77 114	91 136	106 162
Coil 5	M	2994.4	2969.2	2917.5	2839.7	2736.8	2607.5	2455.4	2281.4
		2450 3450	2420 3400	2410 3350	2350 3280	2280 3180	2150 2950	2020 2750	1870 2570
Coil 5	P	7.8163	25.671	43.115	60.538	77.952	95.445	112.94	130.4
		6 10	20 31	36 52	49 75	63 94	79 113	93 134	106 161

AM Factor		10 kHz	30 kHz	50 kHz	70 kHz	90 kHz	110 kHz	130 kHz	150 kHz
Coil 0 R		-908	-804.7	-488.4	-420.2	-373.6	-338.5	-312.5	-280.2
		-320 940	-140 -30	-60 -120	-160 -160	-60 -180	-80 -120	-60 -110	-60 -90
Coil 0 Q		-1273	-708.7	-653.5	-487.3	-460.2	-429.2	-415.8	-408.1
		-1000 1100	-680 380	-370 210	-270 140	-220 100	-180 78	-160 62	-140 48
Coil 1 R		-177.9	-157.9	-144.1	-132.1	-120.5	-110.9	-102.6	-95.46
		-150 480	-30 83	-60 6.8	-230 -4.5	-60 -2	-180 -35	-180 -48	-150 -44
Coil 1 Q		384.8	78.86	20.31	-8.15	-24.83	-35.22	-41.76	-47.03
		-320 350	-110 990	-60 530	-60 390	-30 290	-30 190	-290 150	-280 120
Coil 2 R		-0.6224	-33.83	-35.72	-34.01	-31.33	-28.23	-26.75	-23.4
		-8 78	-8 -0.4	-17 -12	-61 -18	-48 -17	-42 -18	-59 -16	-37 -13
Coil 2 Q		262.5	88.01	49.46	32.58	23.43	18.82	16.07	15.27
		-1550 1900	-500 810	-390 350	-220 290	-180 190	-140 180	-110 130	-88 120
Coil 3 R		1.375	-7.944	-9.331	-9.288	-8.713	-8.089	-7.559	-7.088
		-29 21	-22 1.6	-31 -1.2	-20 -1.8	-19 -2	-18 -1.3	-18 -0.76	-18 -0.449
Coil 3 Q		113.6	42.36	28.43	23.49	21.73	21.52	22.44	24.01
		-640 530	-190 180	-100 110	-71 81	-41 68	-37 68	-38 63	-28 61
Coil 4 R		-2.427	-4.359	-4.491	-4.333	-4.088	-3.856	-3.668	-3.592
		-18 13	-12 2.7	-11 1.5	-0.8 0.52	-0.9 0.96	-18 1.5	-11 2.3	-11 2.6
Coil 4 Q		44.15	18.42	15.21	15.37	16.74	18.5	20.78	23.19
		-280 280	-18 88	-40 64	-27 81	-18 46	-11 62	-45 42	-1 62
Coil 5 R		-2.705	-3.081	-2.914	-2.608	-2.445	-2.386	-2.287	-2.457
		-8 51	-3.4 3.8	-3.9 1.1	-6.1 1.2	-9.3 2.9	-14 8.3	-19 9.8	-24 13
Coil 5 Q		-0.8276	3.052	6.493	9.378	12.74	15.67	18.53	21.86
		-8 69	-26 27	-14 22	-1 22	-29 24	1.1 26	-4.1 29	7.1 32

MM Factor		10 kHz	30 kHz	50 kHz	70 kHz	90 kHz	110 kHz	130 kHz	150 kHz
Coil 0 M		0.964	0.973	0.977	0.980	0.981	0.981	0.982	0.982
		0.85 1.1	0.88 1.1	0.87 1.1	0.88 1.1	0.88 1.1	0.88 1.1	0.88 1.1	0.88 1.1
Coil 0 P		-0.321	-0.509	-0.408	-0.288	-0.185	-0.095	-0.081	-0.032
		-1.4 1.5	-1.2 1.5	-1.2 1.5	-1.2 1.5	-1.2 1.5	-1.4 1.5	-1.2 1.5	-1.4 1.5
Coil 1 M		0.958	0.967	0.972	0.974	0.975	0.976	0.976	0.976
		0.86 1.1	0.88 1.1	0.87 1.1	0.88 1.1	0.88 1.1	0.88 1.1	0.88 1.1	0.88 1.1
Coil 1 P		-0.310	-0.521	-0.400	-0.270	-0.178	-0.098	-0.058	-0.027
		-1.3 1.5	-1.5 1.5	-1.5 1.5	-1.5 1.5	-1.5 1.5	-1.3 1.5	-1.5 1.5	-1.5 1.5
Coil 2 M		0.987	0.987	0.988	0.988	0.988	0.988	0.988	0.988
		0.89 1.1	0.89 1.1	0.88 1.1	0.88 1.1	0.88 1.1	0.88 1.1	0.88 1.1	0.88 1.1
Coil 2 P		0.027	0.009	0.037	0.069	0.090	0.123	0.141	0.128
		0.89 1.1	0.89 1.1	0.89 1.1	0.89 1.1	0.89 1.1	0.89 1.1	0.89 1.1	0.89 1.1

Coil 2 P								
	0.991	0.991	0.992	0.992	0.992	0.992	0.992	0.991
	0.9	1.1	0.9	1.1	0.9	1.1	0.9	1.1
Coil 3 P								
	0.089	0.051	0.079	0.127	0.130	0.204	0.249	0.255
	-1.4	1.5	-1.5	1.5	-1.5	1.5	-1.5	1.5
Coil 4 M								
	0.994	0.994	0.995	0.995	0.995	0.994	0.994	0.994
	0.9	1.1	0.9	1.1	0.9	1.1	0.9	1.1
Coil 4 P								
	0.041	-0.002	0.007	0.022	0.054	0.096	0.127	0.124
	-1.4	1.5	-1.5	1.5	-1.5	1.5	-1.5	1.5
Coil 5 M								
	0.988	0.988	0.987	0.988	0.988	0.986	0.987	0.985
	0.9	1.1	0.9	1.1	0.9	1.1	0.9	1.1
Coil 5 P								
	0.040	0.037	0.055	0.076	0.092	0.196	0.183	0.183
	-1.5	1.5	-1.5	1.5	-1.5	1.5	-1.5	1.5

PARMS TCID 0 TCID 1 Cal Temp T Factor
(degF)

IDs 2.714 0.798 69.80 1.00

HDIL BEFORE LOG VERIFICATION SUMMARY

SERIES: 1530XA ASSET: 10139552 DATE/TIME PERFORMED: August 22, 2007 09:20

UNIT #:

ZERO DATA(mv)	10 kHz	30 kHz	50 kHz	70 kHz	90 kHz	110 kHz	130 kHz	150 kHz
Coil 0 R	0.010	-0.002	-0.000	0.002	-0.001	0.001	0.001	-0.001
	-0.2 0.2	-0.1 0.1	-0.1 0.1	-0.1 0.1	-0.1 0.1	-0.1 0.1	-0.1 0.1	-0.1 0.1
Coil 0 Q	-0.002	-0.003	0.002	-0.000	-0.001	0.001	-0.000	0.001
	-0.3 0.5	-0.2 0.2	-0.1 0.1	-0.1 0.1	-0.1 0.1	-0.1 0.1	-0.1 0.1	-0.1 0.1
Coil 1 R	0.014	-0.000	-0.001	0.002	-0.001	-0.001	0.001	-0.001
	-0.2 0.2	-0.1 0.1	-0.1 0.1	-0.1 0.1	-0.1 0.1	-0.1 0.1	-0.1 0.1	-0.1 0.1
Coil 1 Q	-0.005	-0.005	0.001	-0.001	-0.000	0.000	0.001	-0.001
	-0.4 0.5	-0.2 0.2	-0.1 0.1	-0.1 0.1	-0.1 0.1	-0.1 0.1	-0.1 0.1	-0.1 0.1
Coil 2 R	-0.002	-0.003	-0.008	-0.001	0.001	0.002	-0.001	-0.004
	-0.2 0.2	-0.1 0.1	-0.1 0.1	-0.1 0.1	-0.1 0.1	-0.1 0.1	-0.1 0.1	-0.1 0.1
Coil 2 Q	-0.001	0.000	-0.002	-0.005	-0.003	-0.000	-0.001	-0.004
	-0.4 0.5	-0.2 0.2	-0.1 0.1	-0.1 0.1	-0.1 0.1	-0.1 0.1	-0.1 0.1	-0.1 0.1
Coil 3 R	0.022	-0.008	-0.004	-0.003	-0.002	-0.003	0.002	-0.004
	-0.3 0.5	-0.1 0.1	-0.1 0.1	-0.1 0.1	-0.1 0.1	-0.1 0.1	-0.1 0.1	-0.1 0.1
Coil 3 Q	0.004	-0.008	0.007	0.001	-0.000	0.001	0.001	0.000
	-0.3 0.5	-0.2 0.2	-0.1 0.1	-0.1 0.1	-0.1 0.1	-0.1 0.1	-0.1 0.1	-0.1 0.1
Coil 4 R	0.017	-0.006	-0.003	0.002	-0.000	0.001	0.005	0.001
	-0.4 0.5	-0.2 0.2	-0.2 0.2	-0.2 0.2	-0.2 0.2	-0.2 0.2	-0.2 0.2	-0.2 0.2
Coil 4 Q	0.021	-0.007	0.013	-0.003	-0.006	0.004	-0.002	-0.003
	-1 1	-0.4 0.4	-0.2 0.2	-0.2 0.2	-0.2 0.2	-0.2 0.2	-0.2 0.2	-0.2 0.2
Coil 5 R	0.088	0.001	-0.016	0.011	0.002	-0.018	0.004	-0.003
	-1.2 1.2	-0.4 0.4	-0.4 0.4	-0.4 0.4	-0.4 0.4	-0.4 0.4	-0.4 0.4	-0.4 0.4
Coil 5 Q	0.023	-0.047	0.008	-0.003	0.005	0.014	0.007	0.006
	-1.4 1.5	-0.8 0.8	-0.4 0.4	-0.4 0.4	-0.4 0.4	-0.4 0.4	-0.4 0.4	-0.4 0.4

ELEC. GAINS	10 kHz	30 kHz	50 kHz	70 kHz	90 kHz	110 kHz	130 kHz	150 kHz
Coil 0 M	158.83	158.4	155.51	151.21	145.59	138.66	130.54	121.36
	138 168	124 184	131 161	128 176	122 170	116 181	112 180	105 189
Coil 0 P	7.4269	24.578	41.272	57.905	74.559	91.183	107.8	124.38
	-1 12	18 30	38 40	49 71	63 81	77 110	82 130	108 161
Coil 1 M	281.74	279.41	274.69	267.59	258.22	246.52	232.57	216.58
	251 327	235 325	230 320	225 312	218 302	208 288	198 288	184 244
Coil 1 P	7.5689	25.023	42.034	59.023	76.065	93.134	110.25	127.4
	-1 12	18 30	38 51	49 71	63 92	77 112	92 132	105 152
Coil 2 M	574.8	589.17	568.41	542.5	522	497.08	488	435.35
	478 668	474 604	463 543	460 622	432 602	412 672	380 640	368 488
Coil 2 P	7.5698	25.024	42	58.887	75.76	92.572	109.37	126.15
	-1 12	18 31	35 51	49 71	65 92	77 114	92 135	105 158
Coil 3 M	916.37	908.74	893.12	869.62	838.67	800.07	753.85	700.96
	772 1090	764 1050	732 1030	728 1010	709 970	660 920	620 880	588 788
Coil 3 P	7.7175	25.452	42.759	60.037	77.362	94.708	112.1	129.5
	-1 13	18 31	38 62	49 72	63 83	77 114	82 138	108 166
Coil 4 M	1440.4	1428	1403.1	1365.6	1316.2	1255.4	1182.7	1100.3

		1210	1700	1805	1880	1180	1850	1140	1590	1120	1550	1070	1450	1000	1350	942	1240
Coil	4 P	7.6229		25.139		42.33		59.413		76.54		93.675		110.82		128	
		-1	13	19	31	35	52	49	73	63	93	79	114	92	133	105	139
Coil	5 M	2993		2968.3		2916.7		2838.9		2735.3		2607.8		2464.6		2281.5	
		2480	3480	2420	3400	2410	3380	2380	3280	2280	3080	2180	2980	2020	2700	1870	2870
Coil	5 P	7.7581		25.659		43.122		60.535		77.999		95.494		112.97		130.47	
		-1	13	19	31	35	52	49	73	63	94	79	114	93	135	108	138

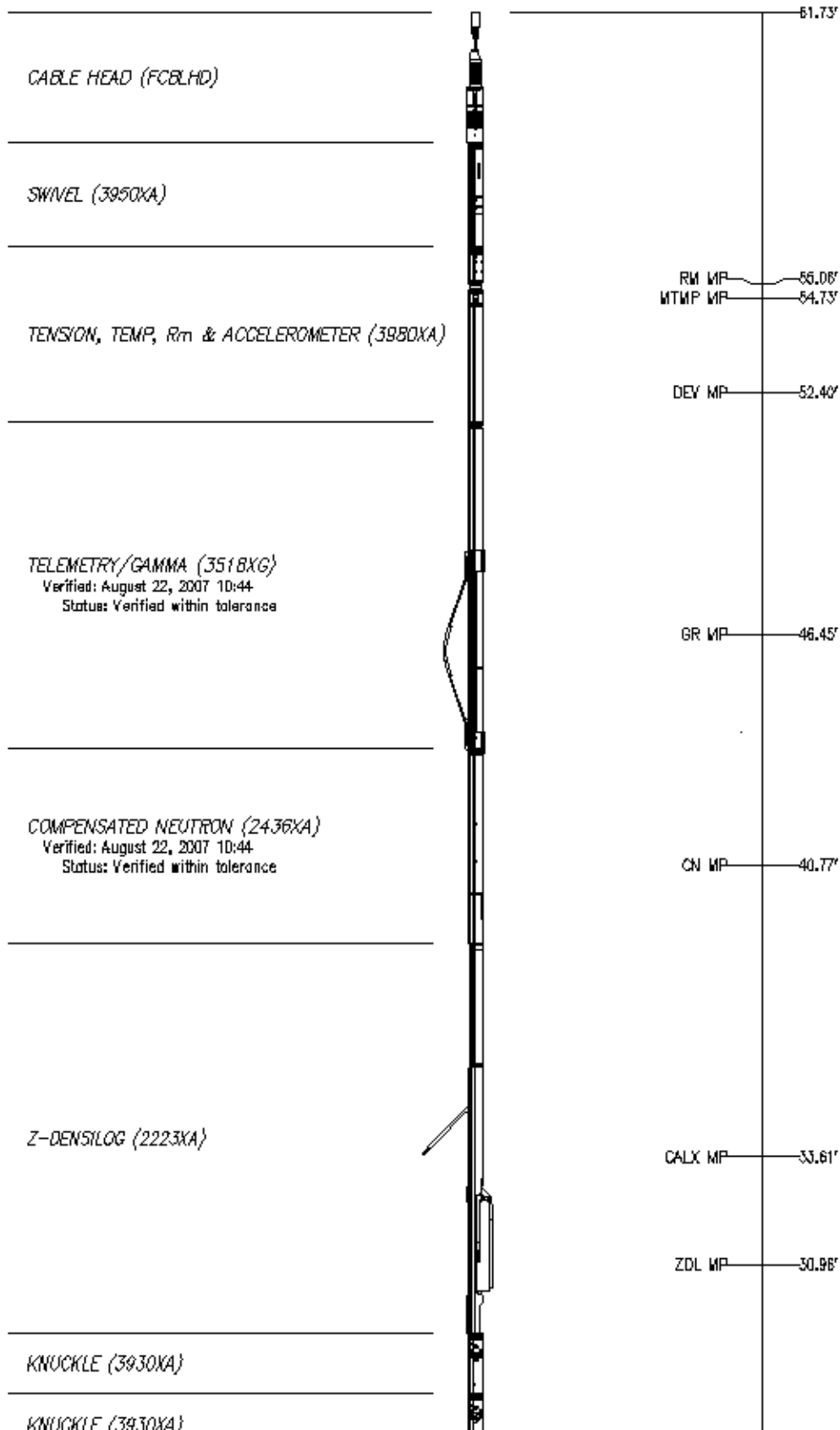
HDIL AFTER LOG VERIFICATION SUMMARY

SERIES: 1530XA ASSET: 10139552 DATE/TIME PERFORMED: August 22, 2007 11:04
UNIT #:

ZERO DATA(mv)	10 kHz	30 kHz	50 kHz	70 kHz	90 kHz	110 kHz	130 kHz	150 kHz
Coil 0 R	0.010	-0.002	-0.000	0.001	-0.001	0.000	0.000	0.000
	-0.2 0.2	-0.1 0.1	-0.1 0.1	-0.1 0.1	-0.1 0.1	-0.1 0.1	-0.1 0.1	-0.1 0.1
Coil 0 Q	-0.003	-0.003	0.001	0.001	-0.000	0.001	-0.001	0.001
	-0.1 0.1	-0.2 0.2	-0.1 0.1	-0.1 0.1	-0.1 0.1	-0.1 0.1	-0.1 0.1	-0.1 0.1
Coil 1 R	0.014	-0.000	-0.003	0.002	-0.001	0.000	0.000	-0.000
	-0.2 0.2	-0.1 0.1	-0.1 0.1	-0.1 0.1	-0.1 0.1	-0.1 0.1	-0.1 0.1	-0.1 0.1
Coil 1 Q	-0.005	-0.004	0.001	0.000	0.000	0.001	-0.001	0.001
	-0.1 0.1	-0.2 0.2	-0.1 0.1	-0.1 0.1	-0.1 0.1	-0.1 0.1	-0.1 0.1	-0.1 0.1
Coil 2 R	0.001	-0.002	-0.005	-0.002	0.001	-0.001	-0.002	-0.000
	-0.2 0.2	-0.1 0.1	-0.1 0.1	-0.1 0.1	-0.1 0.1	-0.1 0.1	-0.1 0.1	-0.1 0.1
Coil 2 Q	-0.001	0.000	-0.002	-0.003	-0.002	-0.001	-0.002	-0.000
	-0.1 0.1	-0.2 0.2	-0.1 0.1	-0.1 0.1	-0.1 0.1	-0.1 0.1	-0.1 0.1	-0.1 0.1
Coil 3 R	0.022	-0.004	-0.003	0.003	-0.001	-0.003	0.002	-0.005
	-0.1 0.1	-0.1 0.1	-0.1 0.1	-0.1 0.1	-0.1 0.1	-0.1 0.1	-0.1 0.1	-0.1 0.1
Coil 3 Q	0.002	-0.011	0.003	-0.005	-0.002	0.006	-0.004	-0.001
	-0.1 0.1	-0.2 0.2	-0.1 0.1	-0.1 0.1	-0.1 0.1	-0.1 0.1	-0.1 0.1	-0.1 0.1
Coil 4 R	0.023	-0.002	-0.004	-0.005	0.003	0.002	-0.001	0.002
	-0.1 0.1	-0.2 0.2	-0.2 0.2	-0.2 0.2	-0.2 0.2	-0.2 0.2	-0.2 0.2	-0.2 0.2
Coil 4 Q	0.018	-0.010	0.007	0.003	-0.002	-0.005	-0.007	0.002
	-1 1	-0.1 0.1	-0.2 0.2	-0.2 0.2	-0.2 0.2	-0.2 0.2	-0.2 0.2	-0.2 0.2
Coil 5 R	0.090	-0.011	-0.009	0.014	-0.007	0.000	-0.001	-0.009
	-1.2 1.2	-0.1 0.1	-0.1 0.1	-0.1 0.1	-0.1 0.1	-0.1 0.1	-0.1 0.1	-0.1 0.1
Coil 5 Q	0.048	-0.046	0.021	0.017	0.005	0.007	-0.004	-0.001
	-1.1 1.1	-0.1 0.1	-0.1 0.1	-0.1 0.1	-0.1 0.1	-0.1 0.1	-0.1 0.1	-0.1 0.1

ELEC. GAINS	10 kHz	30 kHz	50 kHz	70 kHz	90 kHz	110 kHz	130 kHz	150 kHz
Coil 0 M	159.83	158.39	155.5	151.22	145.59	138.67	130.54	121.37
	139 169	134 164	131 161	129 116	122 170	118 181	112 190	105 139
Coil 0 P	7.4242	24.575	41.274	57.915	74.549	91.186	107.81	124.39
	-1 12	18 30	30 50	49 71	63 81	77 110	82 130	106 161
Coil 1 M	281.74	279.4	274.67	267.59	258.23	246.57	232.63	216.56
	257 327	235 325	230 320	225 312	218 302	208 288	199 288	184 244
Coil 1 P	7.5654	25.019	42.037	59.029	76.062	93.136	110.25	127.39
	-1 12	19 30	30 51	49 71	63 92	77 112	92 132	105 135
Coil 2 M	574.59	569.16	568.36	542.51	521.98	497.01	467.96	435.35
	478 608	474 604	463 543	460 622	432 602	412 572	380 540	308 488
Coil 2 P	7.5668	25.021	42.001	58.891	75.752	92.574	109.38	126.15
	-1 12	19 31	35 51	49 71	63 92	77 114	92 135	105 138
Coil 3 M	916.38	908.72	893.04	869.64	838.63	800.05	754.22	701.05
	772 1090	764 1050	752 1030	728 1010	700 970	660 920	626 880	588 100
Coil 3 P	7.7141	25.46	42.763	60.04	77.362	94.726	112.1	129.49
	-1 13	19 31	30 52	49 72	63 93	77 114	92 130	106 136
Coil 4 M	1440.4	1428	1402.9	1365.6	1316	1255.5	1183.1	1100.4
	1210 1700	1305 1800	1180 1850	1140 1590	1120 1550	1070 1450	1000 1350	942 1240
Coil 4 P	7.6196	25.197	42.329	59.422	76.536	93.664	110.84	127.99
	-1 13	19 31	30 52	49 73	63 93	79 114	92 133	105 139
Coil 5 M	2993.1	2968.2	2916.7	2839.2	2735.6	2607.8	2465.2	2282.4
	2480 3480	2420 3400	2410 3380	2380 3280	2280 3080	2180 2980	2020 2700	1870 2870
Coil 5 P	7.7561	25.656	43.118	60.548	77.985	95.476	112.98	130.49
	-1 13	19 31	35 52	49 73	63 94	79 114	93 135	108 138

TOOL DIAGRAM



MINILOG (1114XB)

KNUCKLE (3930XA)

KNUCKLE (3930XA)

HIGH DEFINITION INDUCTION (1530XA)

Verified: August 22, 2007 11:04

Status: Verified within tolerance

CALM/RLML/RNML WP 18.35'

M2R1-M2R9 WP 3.19'

SP WP 1.66'

0.00'

Total Length: 61.73'
Total Weight: 793.00 lb
Max Diameter: 0' 4.00"



Baker Atlas



Company WEXPRO COMPANY

Well STEWART #5

Field POWDER WASH

Province MOFFAT

Province COLORADO

Location

1,625' FEL 236' FNL MINE

Elevations

KB 6714.5 ft

DF N/A

GL 6701.0 ft

SEC 32 TWP 12N RGE 97W

License:

1343

UW:

05-081-07385

THANK YOU