



HIGH DEFINITION INDUCTION LOG
GAMMA RAY LOG
CALIPER LOG

FILE NO:
VDIS:0HE8397

COMPANY
WELL

SOURCE ENERGY MIDCON LLC
M RUSK 18-31 DU

API NO:
15-191-22647

FIELD
COUNTY

ROME
SUMNER

STATE KANSAS

Ver. 3.87

LOCATION:
SHE: 330' FNL & 2089' FEL

SEC 18 TWP 33S RGE 1E

OTHER SERVICES
CN ZDL
FLEX

PERMANENT DATUM
LOG MEASURED FROM
DRILL MEAS. FROM

G.L. ELEVATION 1216 FT
K.B. 16 FT ABOVE P.D.
K.B.

ELEVATIONS:
KB 1232 FT
DF 1231 FT
GL 1216 FT

DATE	18-JUL-2012
RUN	1
SERVICE ORDER	694689
DEPTH DRILLER	4310 FT
DEPTH LOGGER	4306 FT
BOTTOM LOGGED INTERVAL	4288 FT
TOP LOGGED INTERVAL	312 FT
CASING DRILLER	10.75 IN 312 FT
CASING LOGGER	309 FT
BIT SIZE	9.875 IN
TYPE OF FLUID IN HOLE	WATER BASED MUD
DENSITY	9 LB/G 49 S
PH	10 8 CS
SOURCE OF SAMPLE	CIRCULATION TANK
RM AT MEAS. TEMP.	.641 OHM 75 DEGF
RM AT MEAS. TEMP.	.546 OHM 75 DEGF
RM AT MEAS. TEMP.	.887 OHM 75 DEGF
SOURCE OF RMF	CALCULATED
RM AT BHT	.4186 OHM 118 DEGF
TIME SINCE CIRCULATION	6.5 HRS
MAX. RECORDED TEMP.	122 DEGF
EQUIP. NO.	H-6728
RECORDED BY	KIM FAINTROY
WITNESSED BY	MIKE CORLEAND
LOCATION	DECATUR, TX

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
9.875 IN	312 FT	4312 FT

CASING RECORD

SIZE	WEIGHT	GRADE	FROM	TO
10.75 IN			18 FT	312 FT

REMARKS

RUN 1 TRIP 1: BVOL = TOTAL BOREHOLE VOLUME IN FT3
CVOL = TOTAL CEMENT VOLUME COMPUTED ON 7.825" OD CASING

HDIL RUN WITH 1.5" STAND OFF
PORZC AND CNC LOGGED ON LIMESONE MATRIX 2.71 G/CC

RIG: UDI 116
CREW: B.CHENEY, O. FAULK

EQUIPMENT DATA

RUN	TRIP	TOOL	SERIES NO.	SERIAL NO.	POSITION
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MAIN LOG 5"/100FT SCALE

ECLIPS 6.11 Aug 06, 2010
Updates: 1,2 Patches: 2

Fri Jul 20 06:57:50 2012

Perplt /main/62

Cplot

Pdf_Cpp /main/16

Fileview 5.61

PARAMETER AND FILTER SUMMARY REPORT

FILE: /data/SOURCE_ENERGY_M_RUSK_18_31/n875g02.prm
LOGGING MODE: DEPTH DIRECTION: UP
TOP DEPTH: 95.000 ft BOTTOM DEPTH: 4520.750 ft

SYMMETRIC FILTER

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (ft)	
Y AXIS CALIPER	FILTER ()	medium (1)		TOP	BOTTOM
SPEED	FILTER (.1)	medium (1)		"	"
TENSION	FILTER ()	medium (1)		"	"
GR	FILTER ()	medium (1)		"	"
	FILTER (.1)	medium (1)		"	"
CN	FILTER ()	medium (1)		"	"
	FILTER (.1)	medium (1)		"	"
CALIPER	FILTER ()	medium (1)		"	"
	FILTER (.h)	medium (1)		"	"
	FILTER (.1)	medium (1)		"	"
ZDL MED RES	FILTER (hrd1*)	medium		"	"
	FILTER (hrd1a*)	medium		"	"
	FILTER (hrd2*)	medium		"	"
	FILTER (hrd2a*)	medium		"	"
	FILTER (soft*)	medium		"	"
SP-SPDH	FILTER ()	medium (1)		"	"
	FILTER (.1)	medium (1)		"	"

BOREHOLE & CEMENT

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (ft)	
CASING - BOREHOLE & CEMENT VOLUME	CASING O.D.	7.625	in	TOP	BOTTOM
	CASING THICKNESS	0.000	in	"	"
BIT SIZE	BIT SIZE	9.875	in	"	"
MUD SAMPLE RESISTIVITY	MUD SAMPLE TEMP	75.0	degF	"	"
	MUD SAMPLE RES	0.641	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	"	"
MUD DENSITY	MUD DENSITY	9.00	lbm/gal	"	"
BOREHOLE CORR DIAMETER SOURCE	CALIPER/FIXED DIA. (cnbh*)	USE CALIPER		"	"
	CALIPER/FIXED DIA. (mbh*)	USE CALIPER		"	"
	CALIPER/FIXED DIA. (zdbh*)	USE CALIPER		"	"
BOREHOLE CORR DIAMETER	FIXED DIAMETER (cnbh*)	9.875	in	"	"
	FIXED DIAMETER (mbh*)	9.875	in	"	"
BH MUD RESISTIVITY SOURCE	RMUD SOURCE (HDIL)	MUD SAMP DERIVED		"	"

CN PROCESSING

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (ft)	
2448 CN MATRIX	2448 MATRIX	LIMESTONE		TOP	BOTTOM
CN SALINITY CORRECTION	SALINITY	1200	ppm	"	"
CN CASING & CEMENT CORRECTION	CORRECTION	OFF		"	"
	BIT SIZE BEHIND CSNG	7.875	in	"	"

ZDL PROCESSING

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (ft)	
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MUD DENSITY	MUD DENSITY	9.00	lbm/gal	TOP	BOTTOM
DENSITY POROSITY	RHOmatrix	2.710	g/cm3	''	''
	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		''	''
	Rmsd MULTIPLIER	1.000		''	''

CURVE DESCRIPTION REPORT

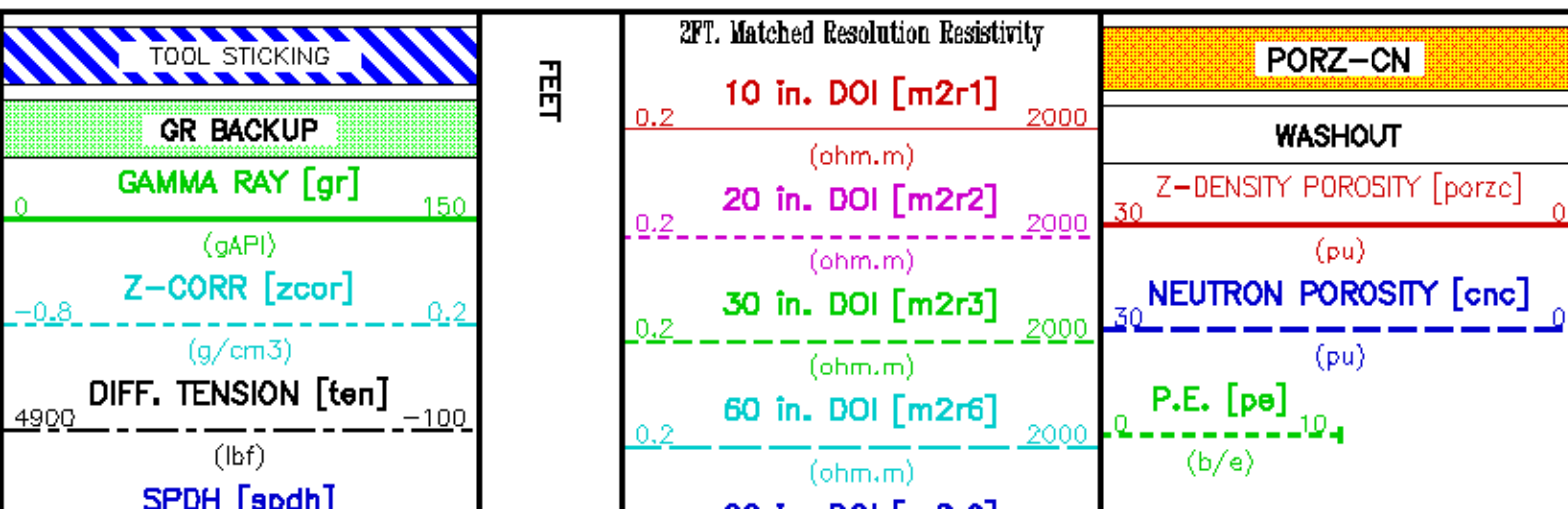
CURVE NAME	CREATION DATE	CURVE DESCRIPTION
F1:BYDL	Jul 20 03:03:17 2012	BOREHOLE VOLUME
F1:CALX	Jul 20 03:03:17 2012	CALIPER FROM X-AXIS OF XY CALIPER(S)
F1:CNC	Jul 20 03:03:17 2012	BOREHOLE SIZE CORRECTED COMPENSATED NEUTRON POROSITY
F1:CYDL	Jul 20 03:03:17 2012	CEMENT VOLUME
F1:GR	Jul 20 03:03:17 2012	GAMMA RAY
F1:M2R1	Jul 20 03:03:17 2012	VERTICAL 2-FOOT RESOLUTION MATCHED RESISTIVITY, 10-INCH DOI
F1:M2R2	Jul 20 03:03:17 2012	VERTICAL 2-FOOT RESOLUTION MATCHED RESISTIVITY, 20-INCH DOI
F1:M2R3	Jul 20 03:03:17 2012	VERTICAL 2-FOOT RESOLUTION MATCHED RESISTIVITY, 30-INCH DOI
F1:M2R6	Jul 20 03:03:17 2012	VERTICAL 2-FOOT RESOLUTION MATCHED RESISTIVITY, 60-INCH DOI
F1:M2R9	Jul 20 03:03:17 2012	VERTICAL 2-FOOT RESOLUTION MATCHED RESISTIVITY, 90-INCH DOI
F1:M2RX	Jul 20 03:03:17 2012	VERTICAL 2-FOOT RESOLUTION MATCHED RESISTIVITY, 120-INCH DOI
F1:PE	Jul 20 03:03:17 2012	PHOTO ELECTRIC CROSS-SECTION
F1:PORZC	Jul 20 03:03:17 2012	CORRECTED POROSITY
F1:SPDH	Jul 20 03:03:17 2012	SPONTANEOUS POTENTIAL PROCESSED IN COMMON REMOTE
F1:TEN	Jul 20 03:03:17 2012	DIFFERENTIAL TENSION
F1:ITBH	Jul 20 03:03:17 2012	TEMPERATURE OF BOREHOLE
F1:ZCOR	Jul 20 03:03:17 2012	DENSITY CORRECTION

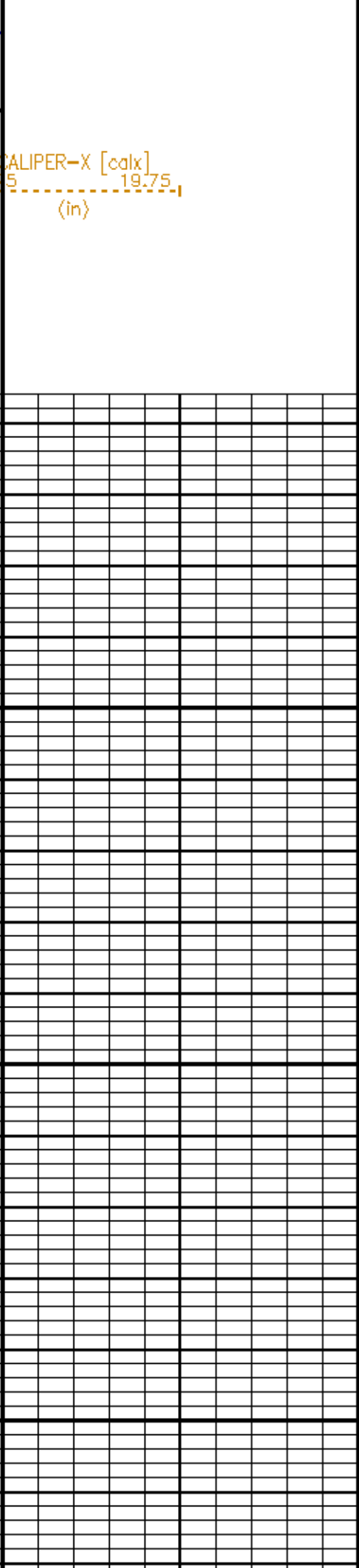
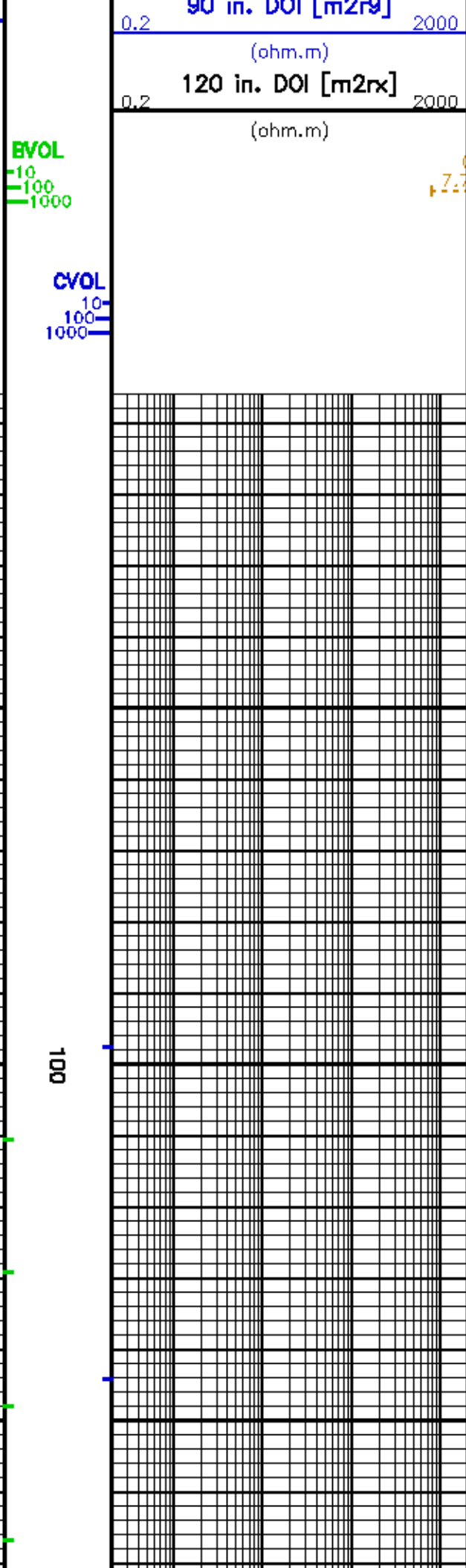
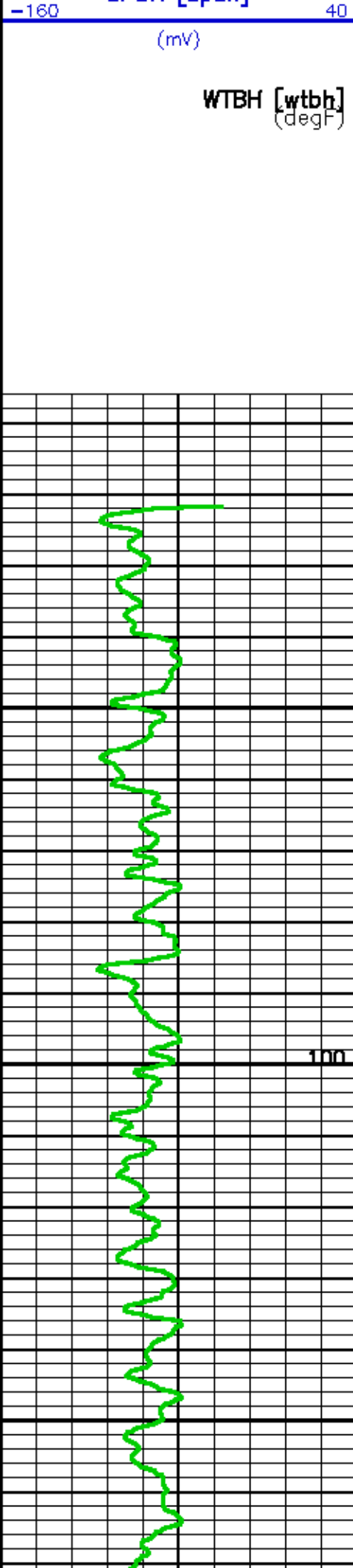
CURVE MEASURE POINT OFFSET

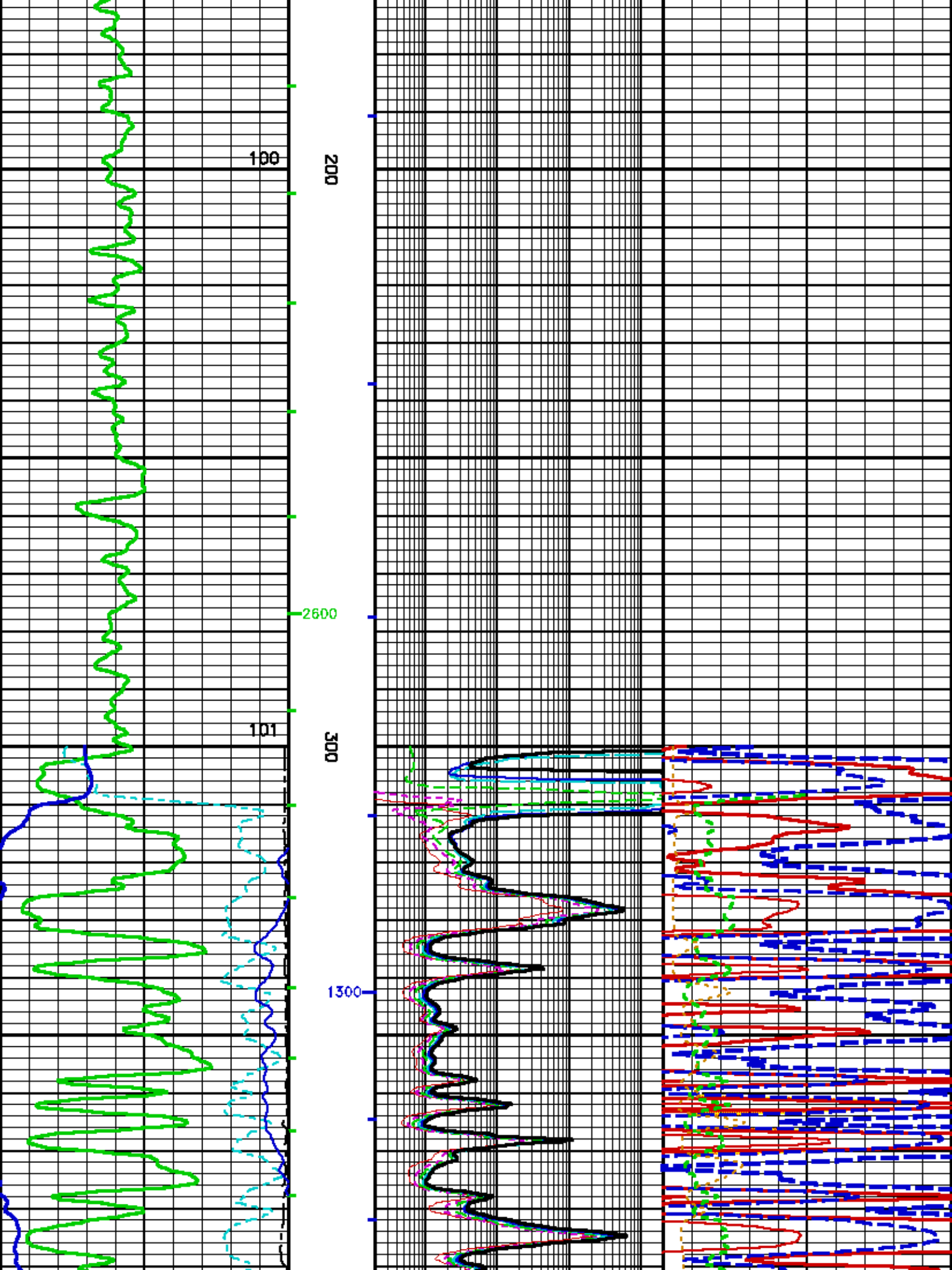
CURVE	OFFSET (ft)	CURVE	OFFSET (ft)	CURVE	OFFSET (ft)	CURVE	OFFSET (ft)
CALX	55.25	M2R2	8.00	M2RX	8.00	TEN	0.00
CNC	65.50	M2R3	8.00	PE	54.50	ZCOR	54.50
GR	72.58	M2R6	8.00	PORZC	54.50		
M2R1	8.00	M2R9	8.00	SPDH	14.00		

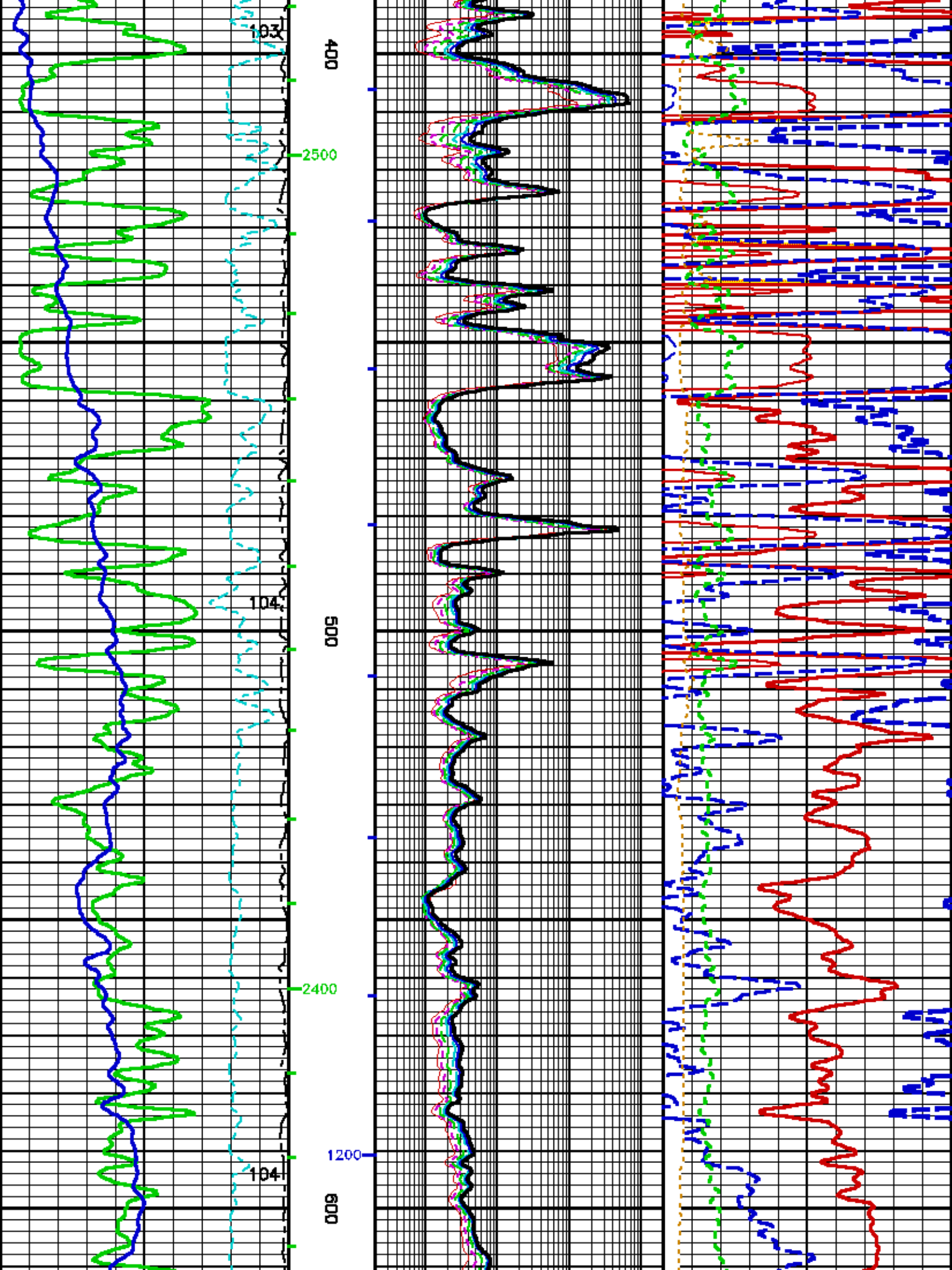
Presentation : chr6728:/data/SOURCE_ENERGY_M_RUSK_18_31/5M_SLAM_MAIN_liverline.pdf [5"/100" Scale]
Plot Interval : 7.25 - 4318.75 Feet

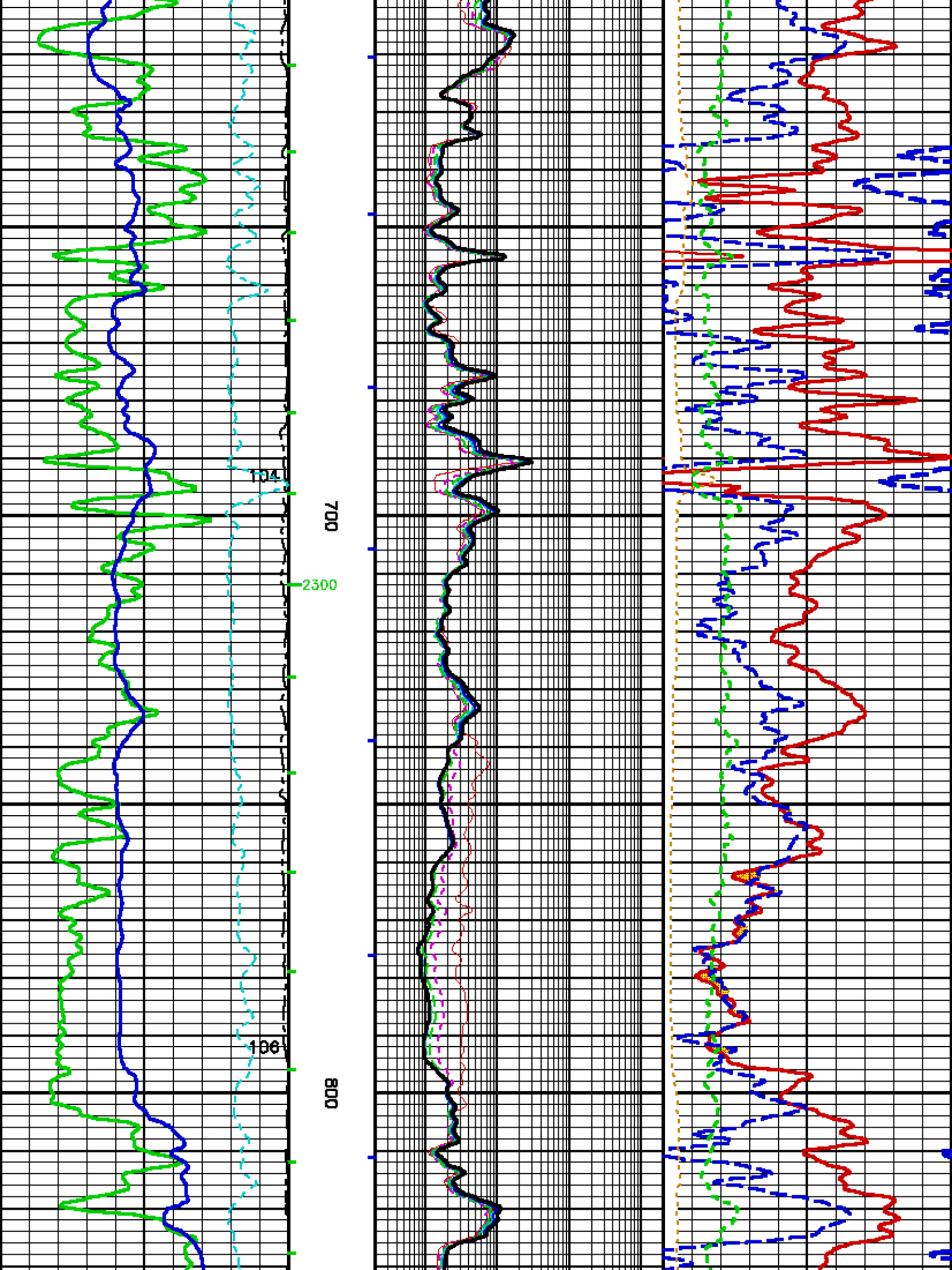
Data File 1 : F1 : chr6728:/data/SOURCE_ENERGY_M_RUSK_18_31/m876g02.aiff
Created On : Jul 20 06:52:53 2012
Company : SOURCE ENERGY MIDCON LLC
Well : M_RUSK_18-31 DU
Field : BOME
File Interval : 7.25 - 4320.75 Feet
Out : m876g

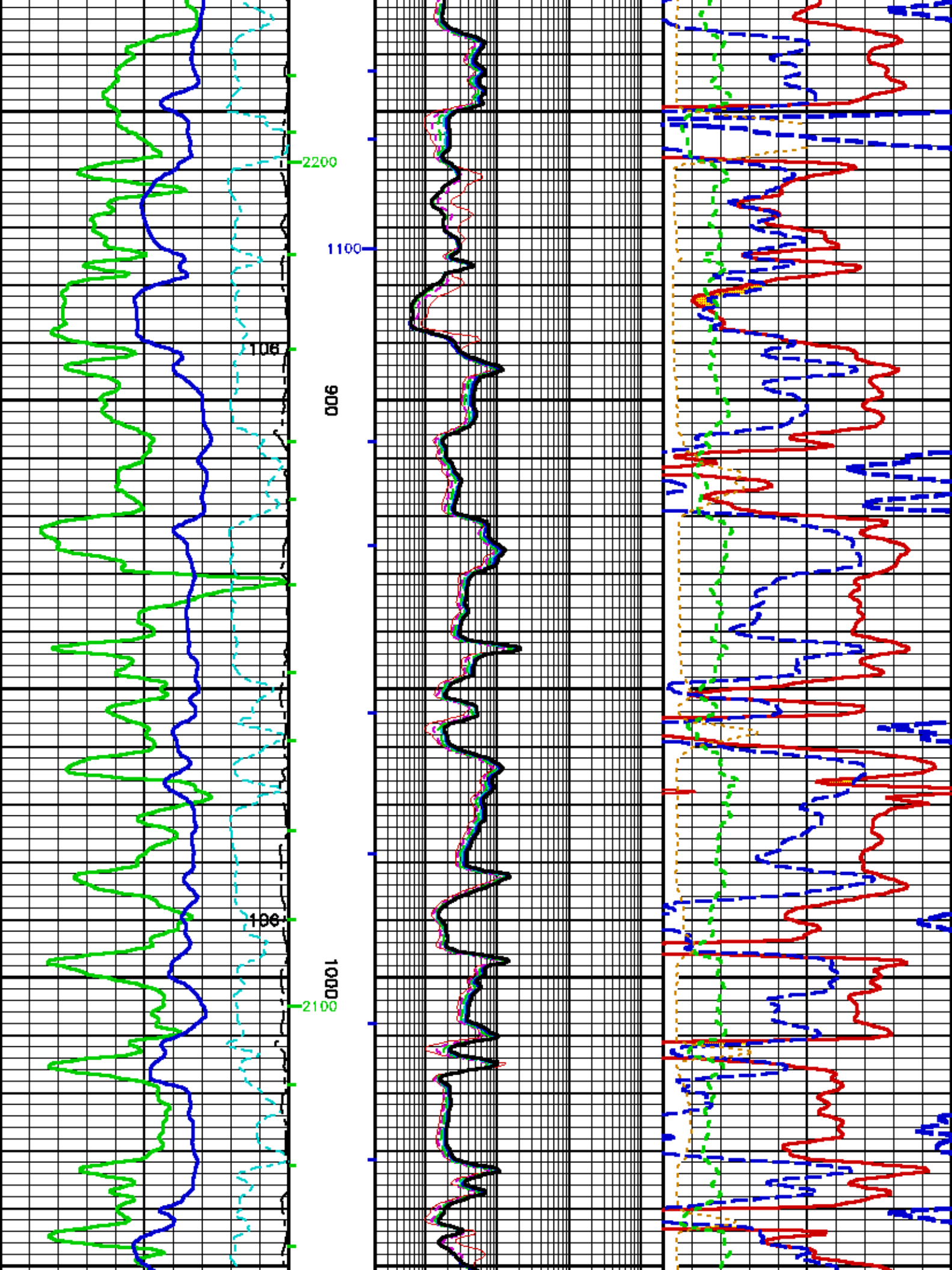


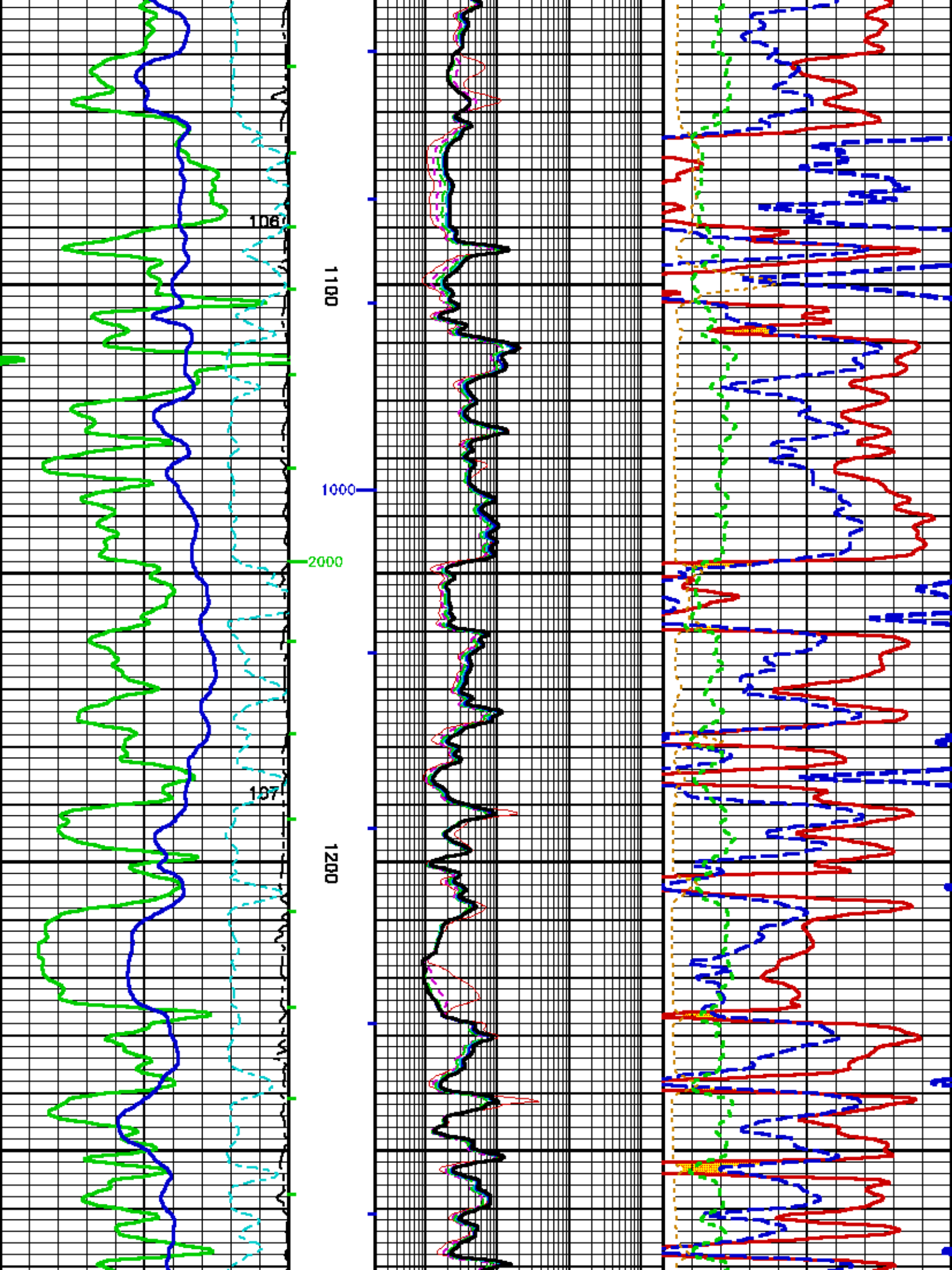


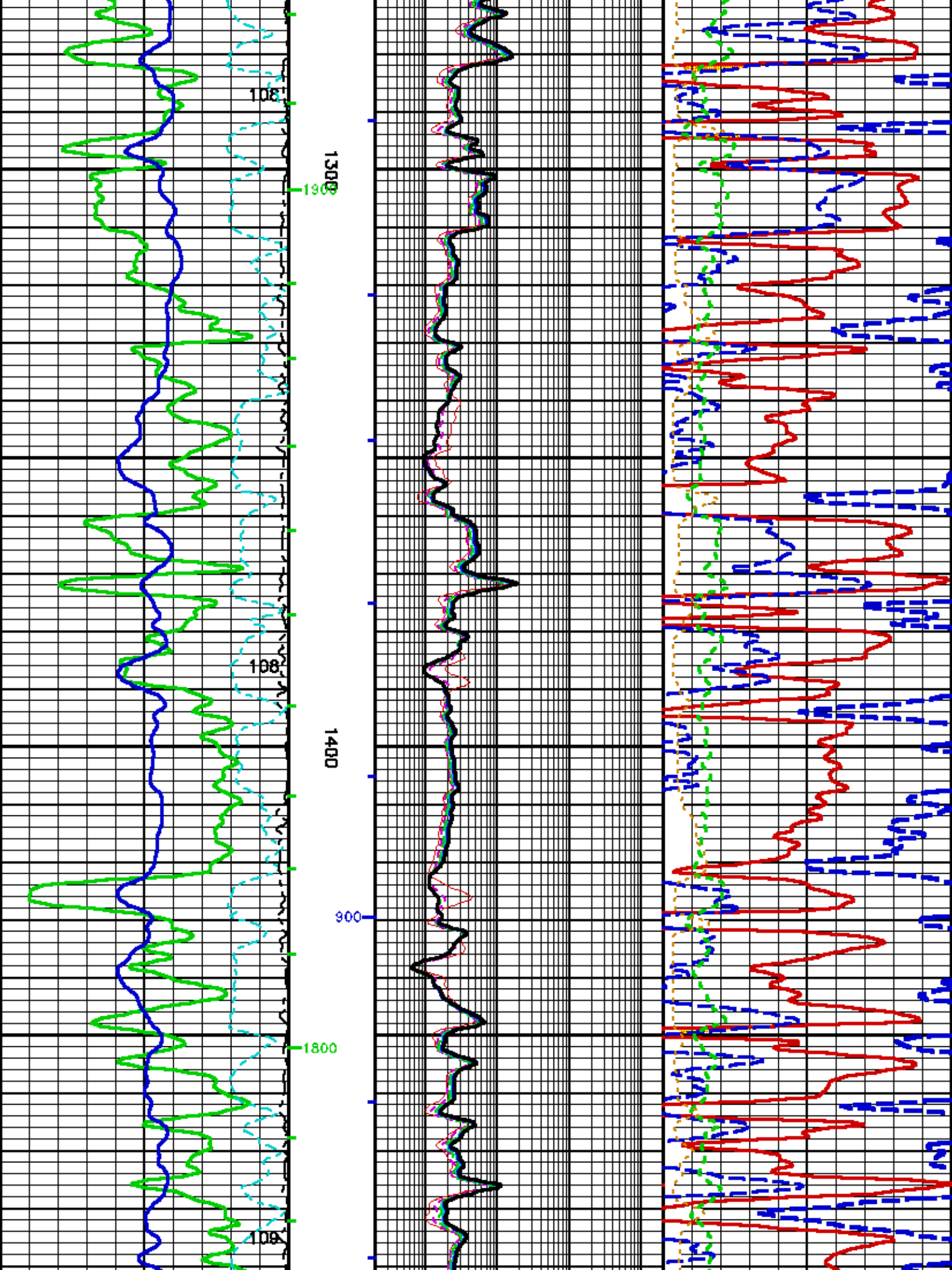


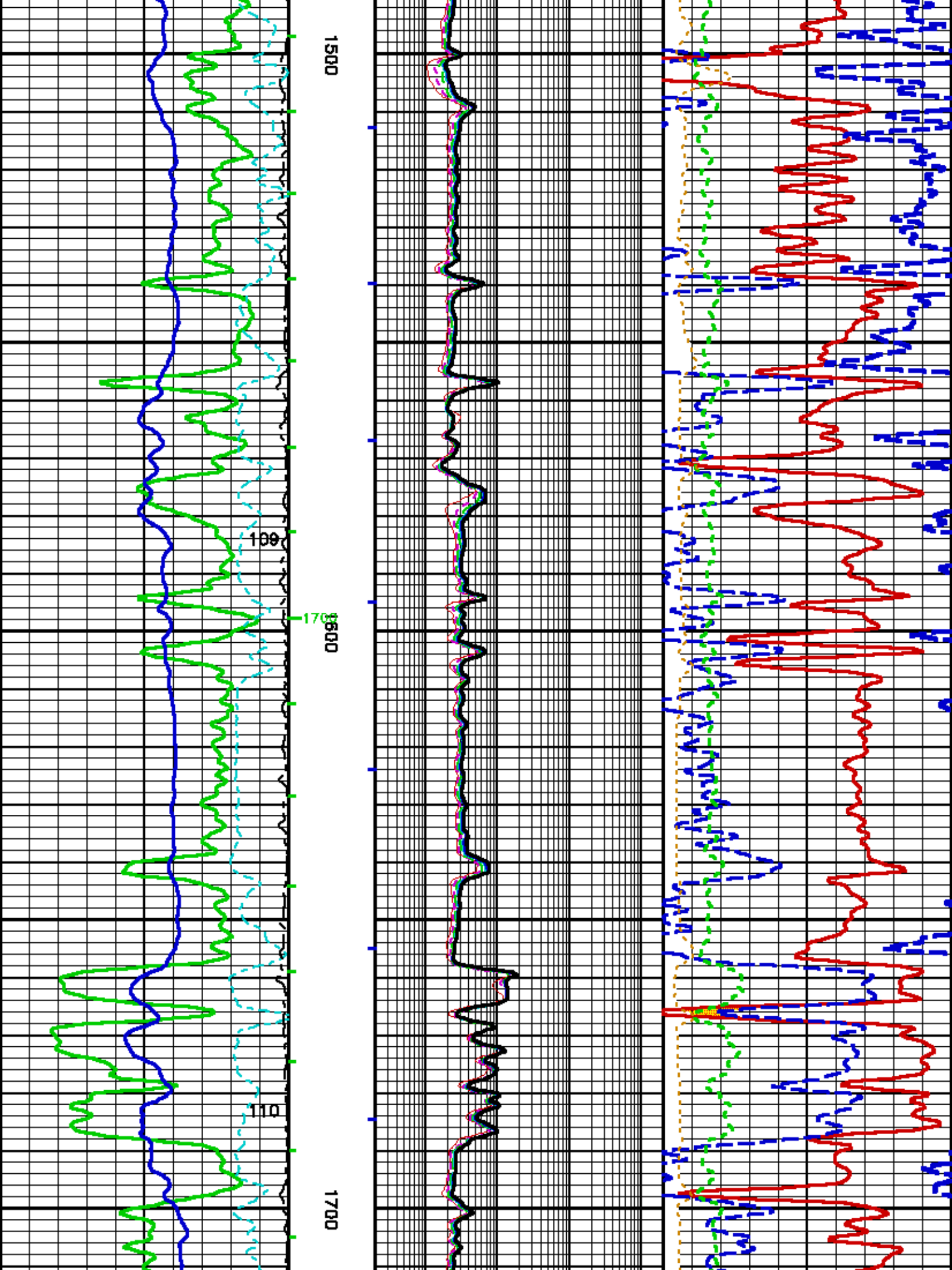


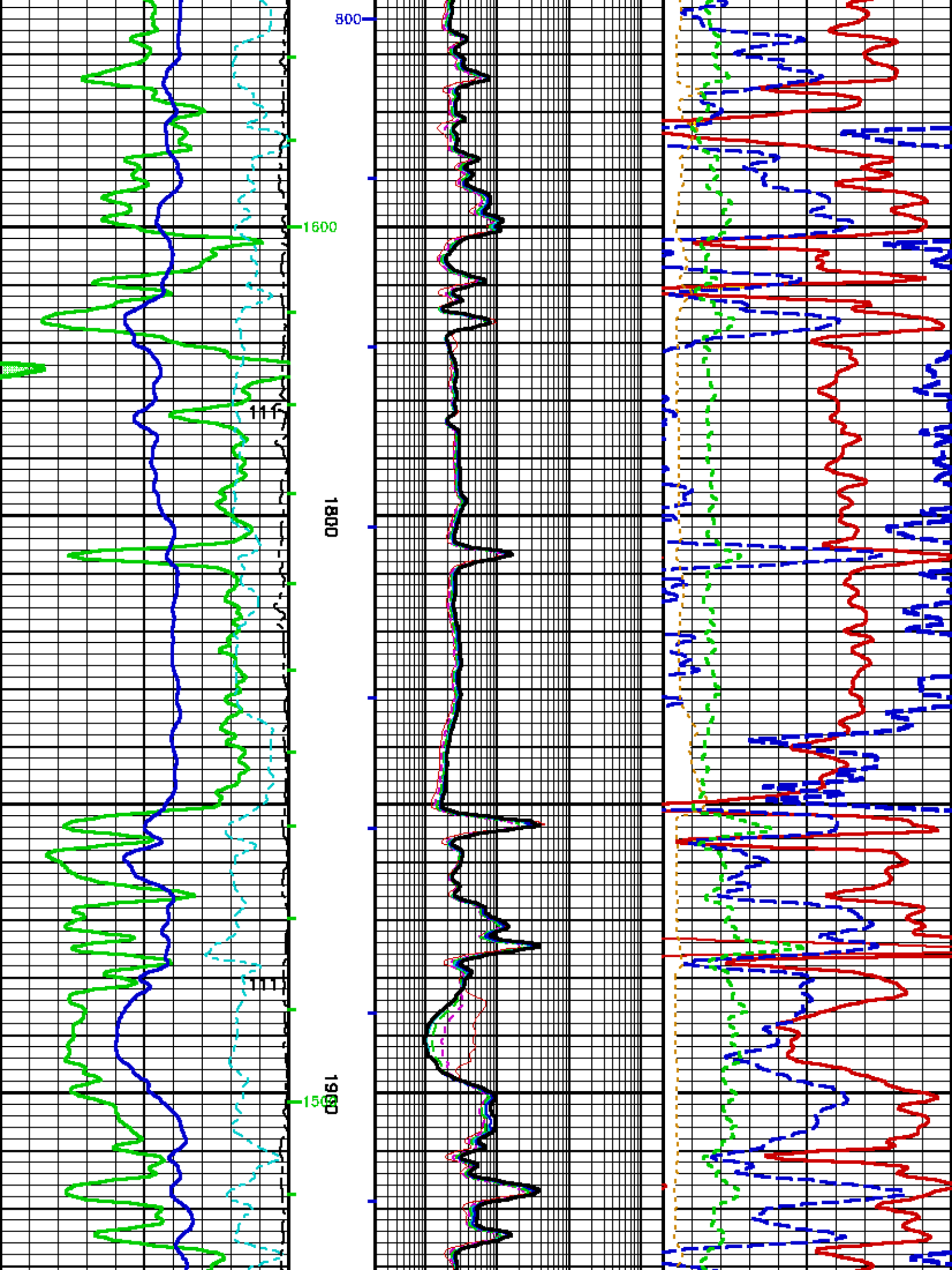


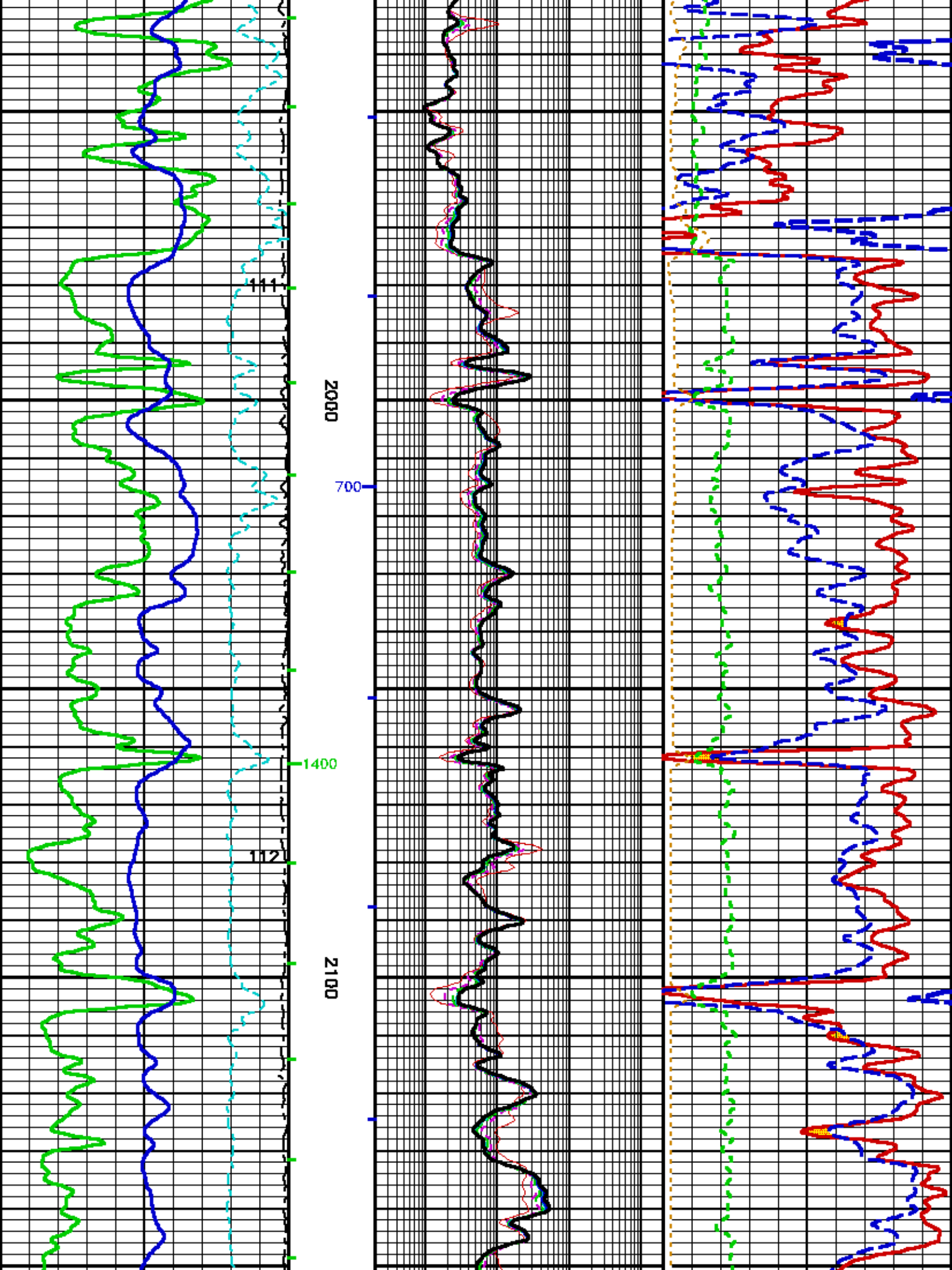


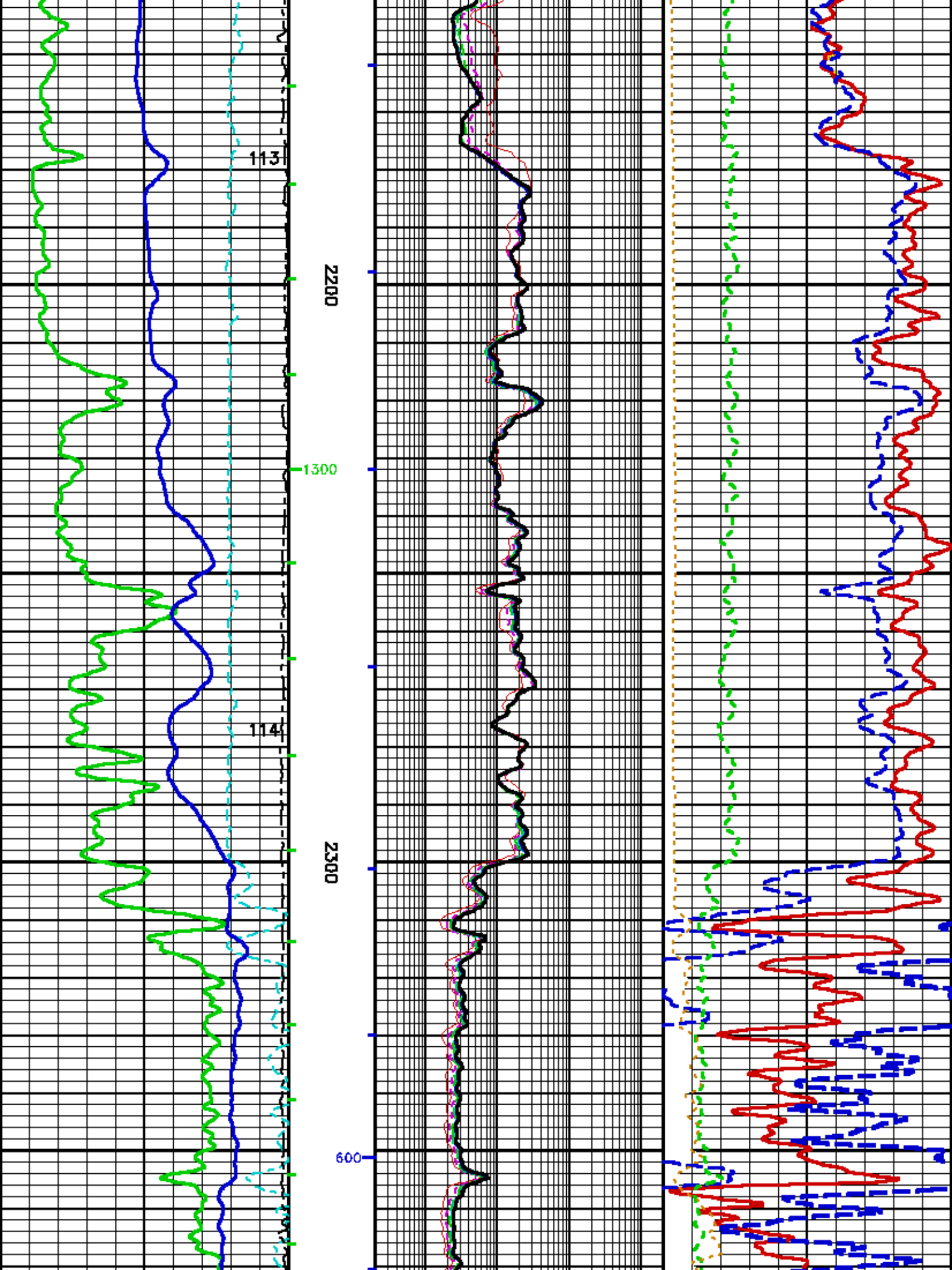


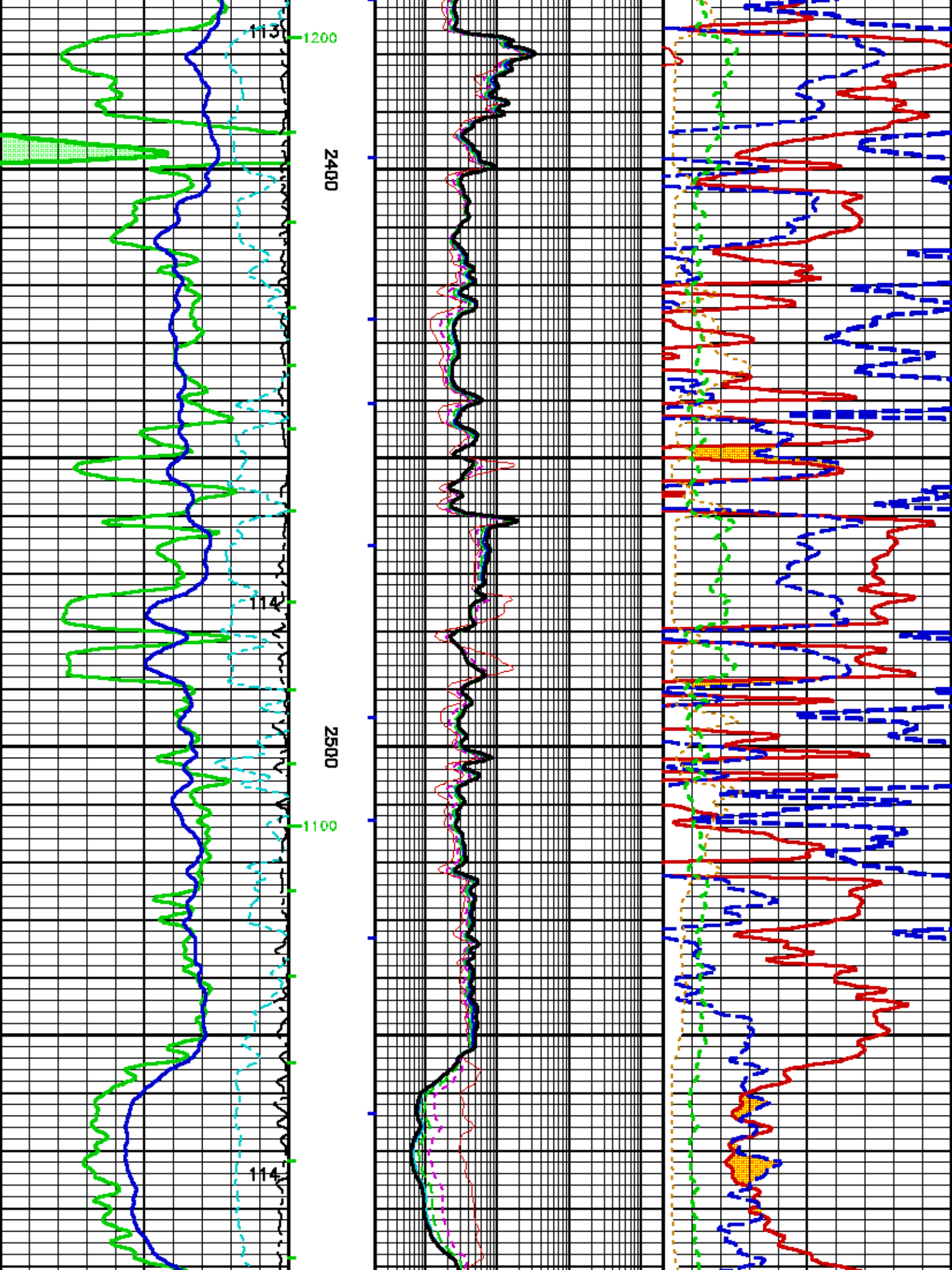


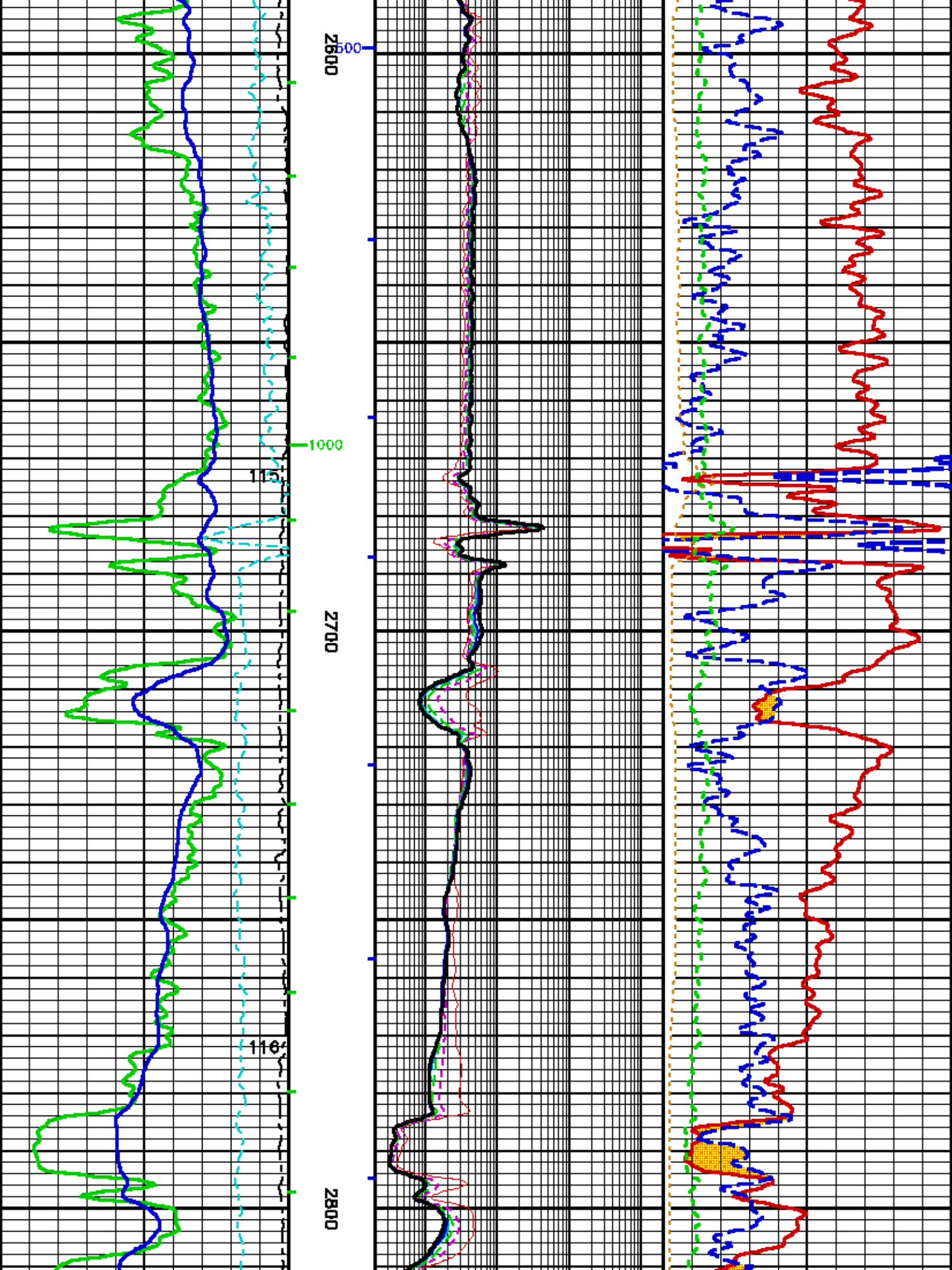


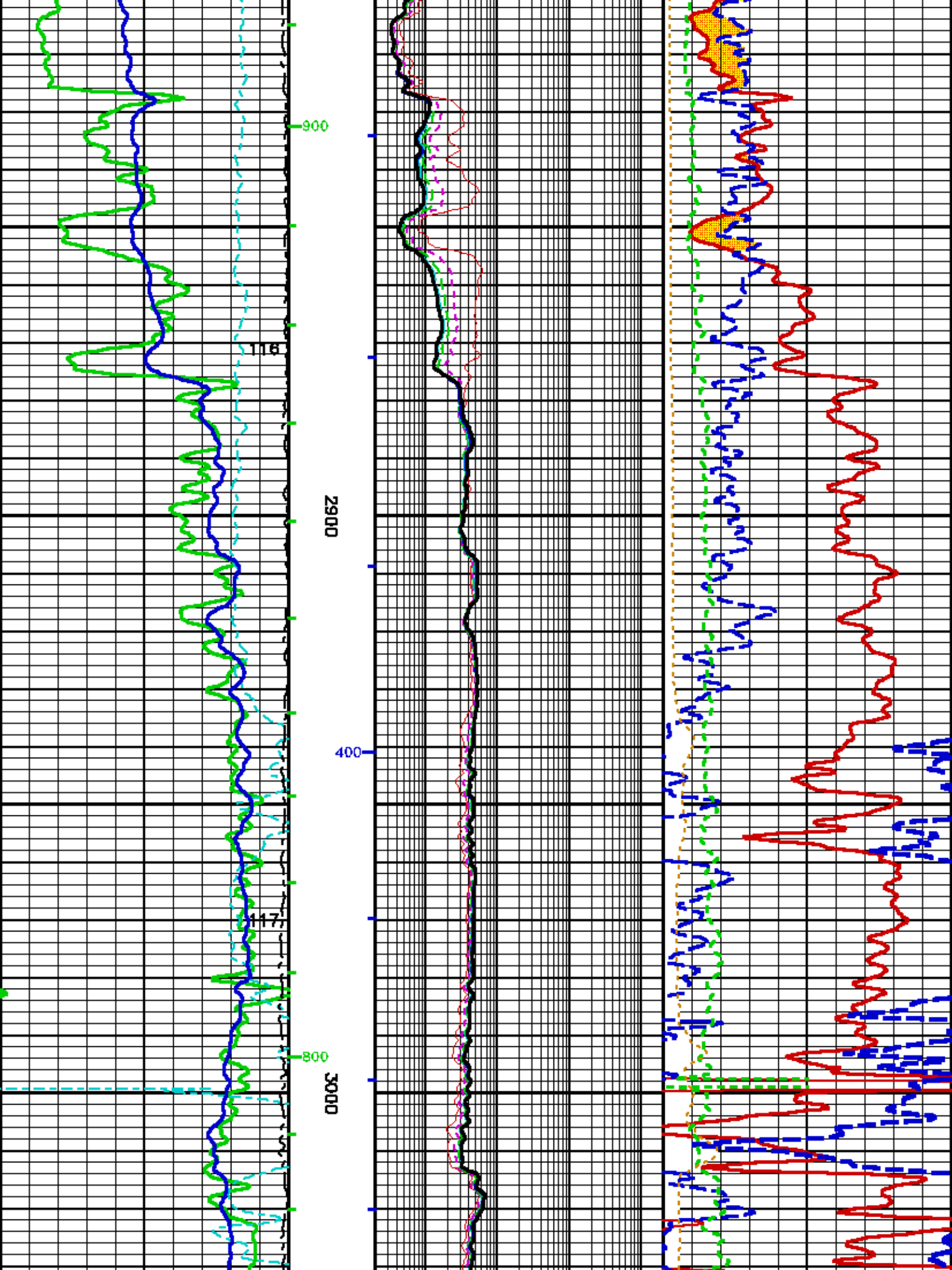


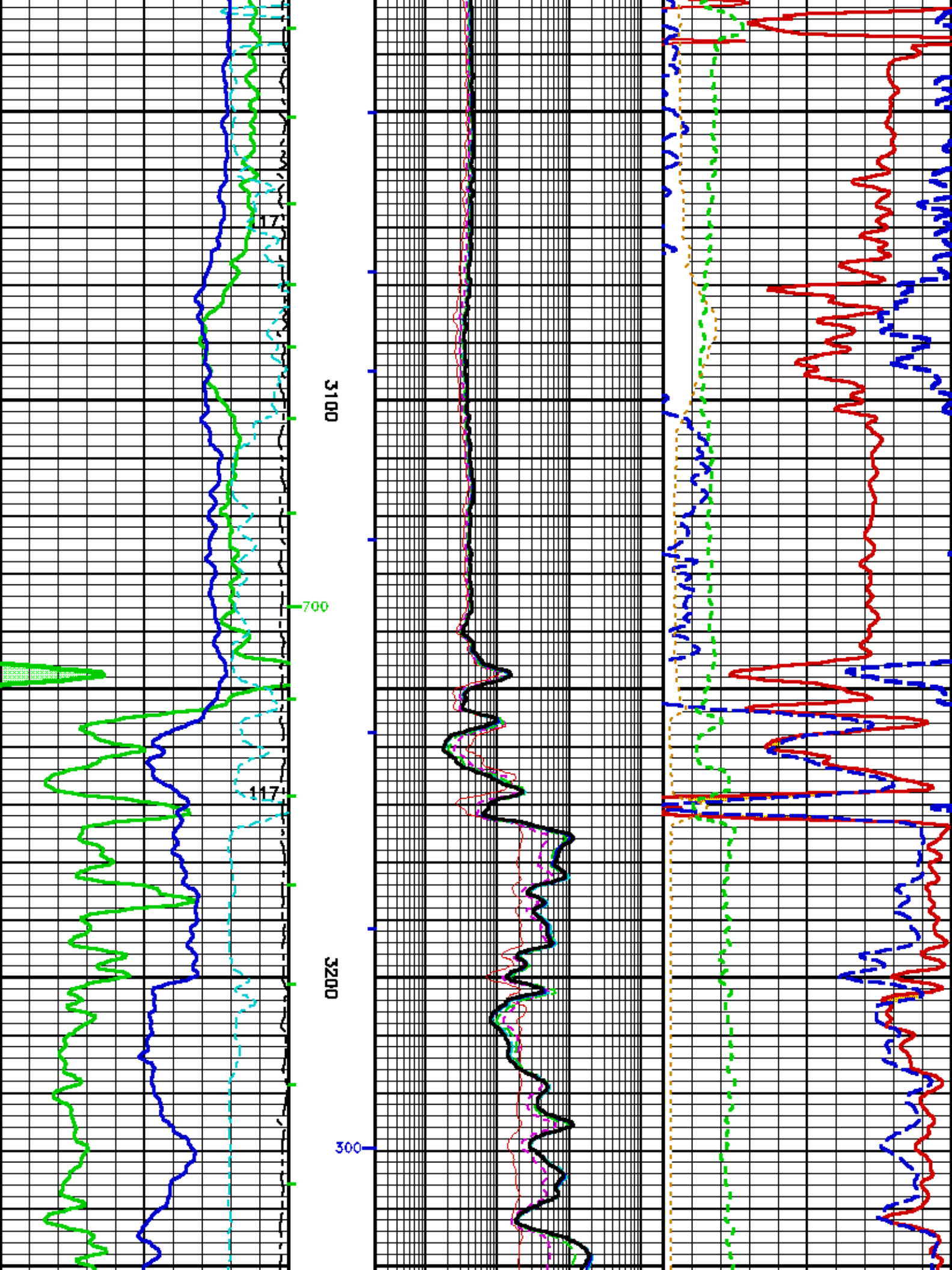


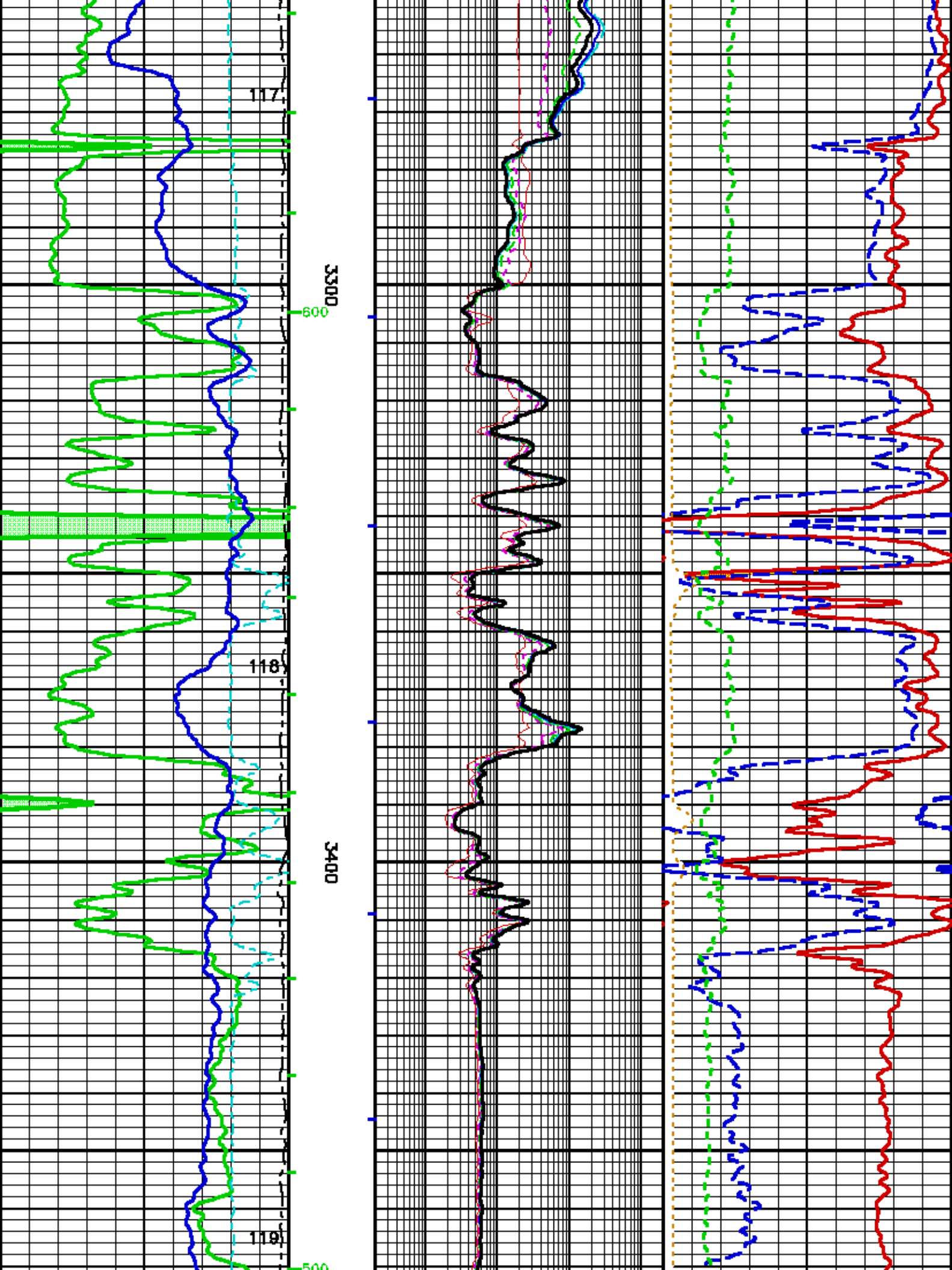


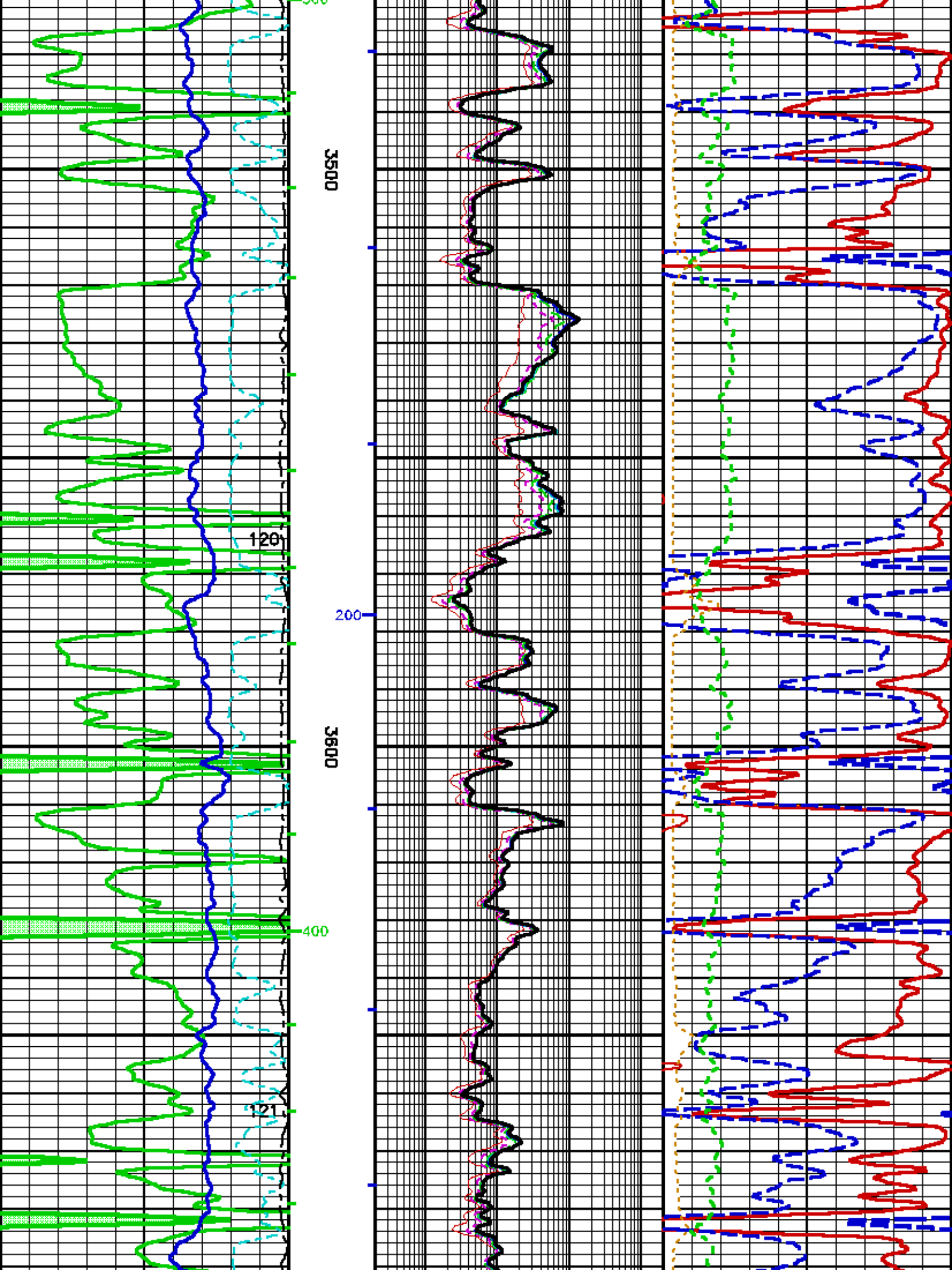


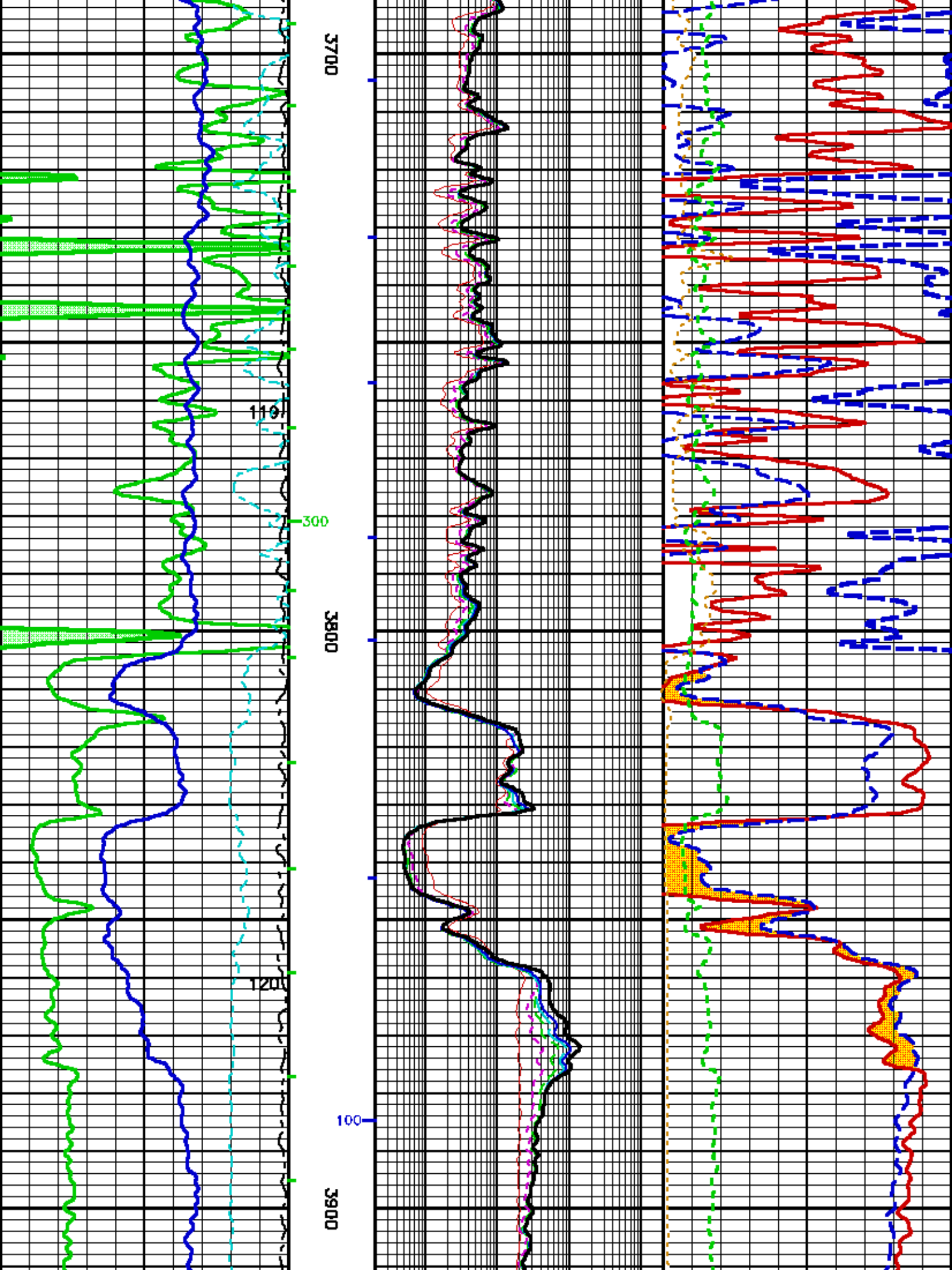


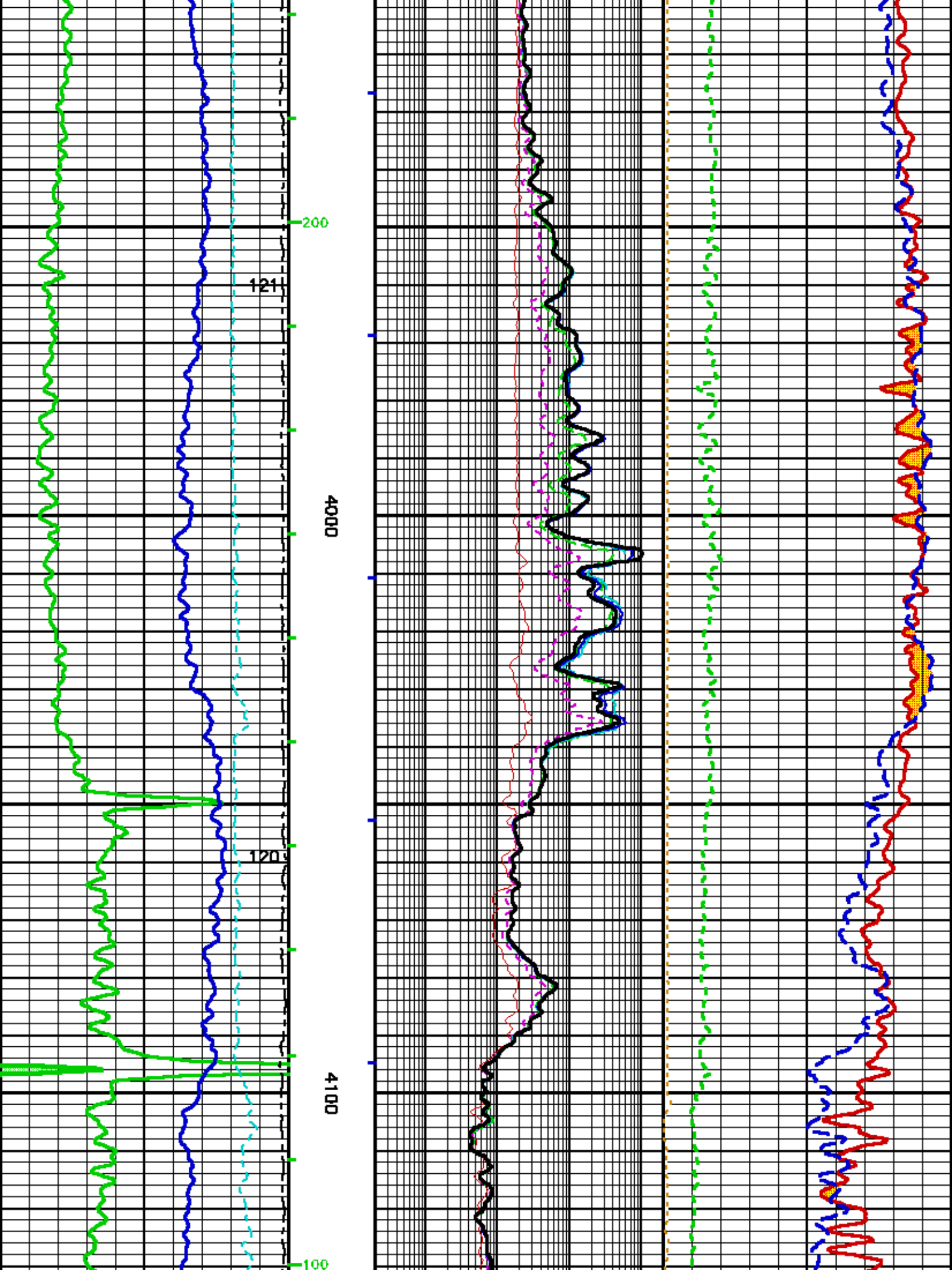


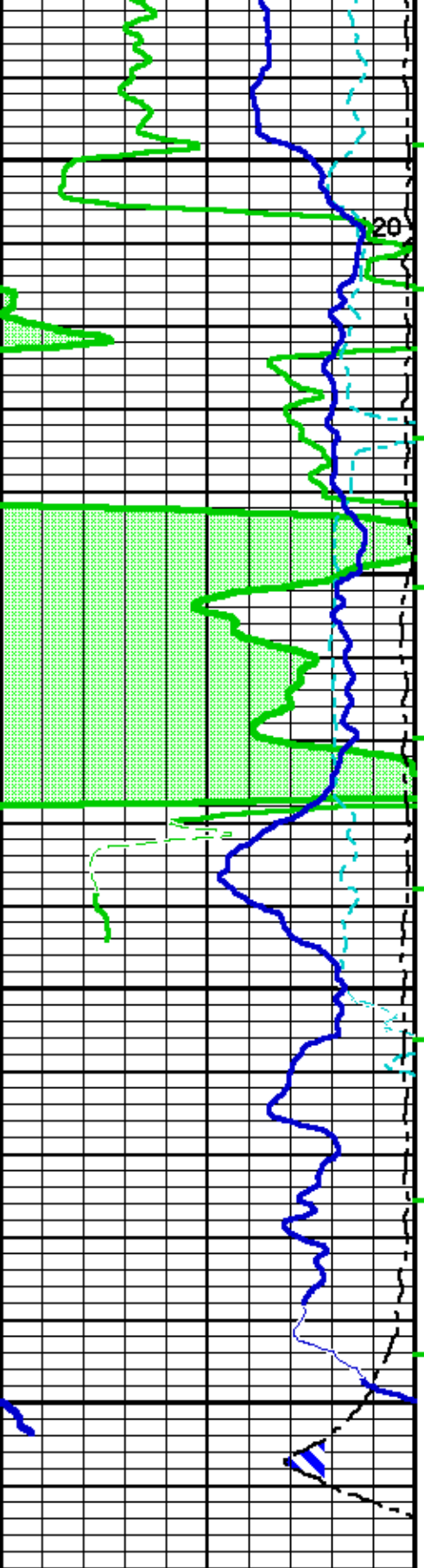












4200

4300

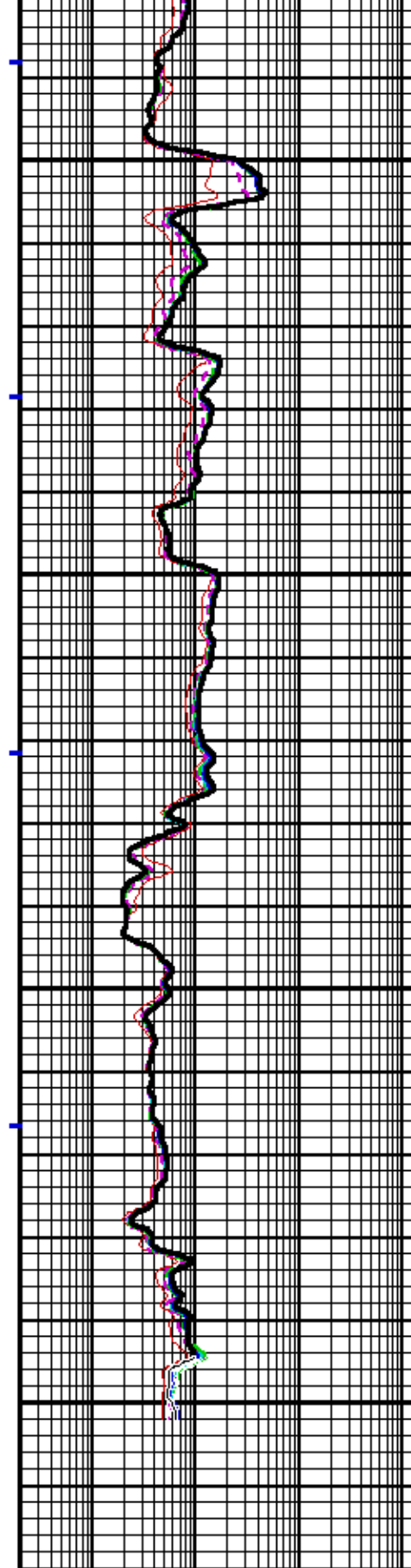
FEET

TOOL STICKING

GR BACKUP

GAMMA RAY [gr]
(gAPI)

Z-CORR [zcor]

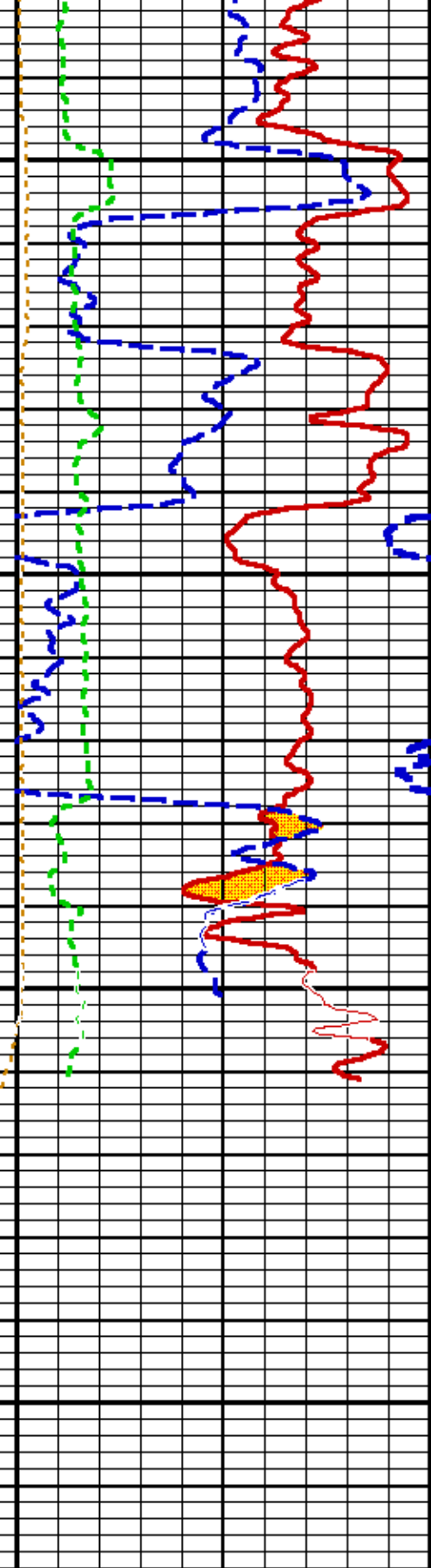


2FT. Matched Resolution Resistivity

10 in. DOI [m2r1]
(ohm.m)

20 in. DOI [m2r2]
(ohm.m)

30 in. DOI [m2r3]
(ohm.m)



PORZ-CN

WASHOUT

Z-DENSITY POROSITY [porzc]
(pu)

NEUTRON POROSITY [cnc]

