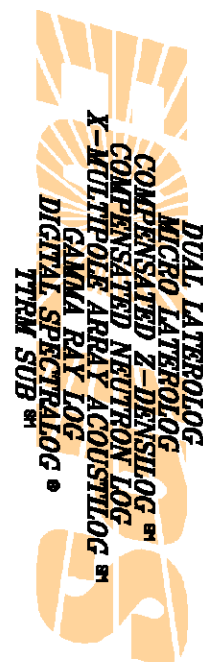




Baker Atlas



FILE NO: _____ COMPANY: **APACHE ENERGY LIMITED**
 WELL: **MADFISH-1**
 FIELD: **EXPLORATION**
 API NO: _____ COUNTRY: **AUSTRALIA**

Ver. 3.87
 SUITE 1
 TVD DEPTH
 FIELD PRINT
 SCALE 1:200

LOCATION:
 LAT : 038DEG 39' 24.823" S
 LONG: 148DEG 31' 24.486" E

OTHER SERVICES
 CHECKSHOT

PERMANENT DATUM AHD _____ ELEVATION 0 M
 LOG MEASURED FROM DF _____ 21.5 M ABOVE P.D.
 DRILL MEAS. FROM DF _____

ELEVATIONS:
 KB -
 DF 21.5 M
 GL -392.6 M

DATE	11-DEC-2008
RUN	1
TRIP	1
SERVICE ORDER	700042
DEPTH DRILLER	4720.0 M
DEPTH LOGGER	4409.5 M (HUD)
BOTTOM LOGGED INTERVAL	4366.5 M
TOP LOGGED INTERVAL	1546.3 M
CASING DRILLER	13.375 IN
CASING LOGGER	1546.3 M
BIT SIZE	8.5 IN
TYPE OF FLUID IN HOLE	KCL POLYMER
DENSITY	1.16 G/CC
VISCOSITY	64 S
PH	11
FLUID LOSS	4.0 CC
SOURCE OF SAMPLE	ACTIVE TANK
RM AT MEAS. TEMP.	0.0649 OHM
RMF AT MEAS. TEMP.	0.0592 OHM
RMC AT MEAS. TEMP.	0.1289 OHM
SOURCE OF RMF	MEASURED
RM AT BHT	0.0255 OHM
TIME SINCE CIRCULATION	19 HOURS
MAX. RECORDED TEMP.	100 DEGC
EQUIP. NO.	HL 8881
LOCATION	PERTH
RECORDED BY	B.GERLACH/I.SIREGAR
WITNESSED BY	G.FANNUS/J.EASTWOOD

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
12.25 IN	1551 M	3337 M
8.5 IN	3337 M	4720 M

CASING RECORD				
SIZE	WEIGHT	GRADE	FROM	TO
13.375 IN	68 LB/F	L80	0 M	1546.3 M

REMARKS

RUN 1 TRIP 1 :

- FIRST RUN IN HOLE, DEPTH CONTROL AS PER BAKER ATLAS PROCEDURE. DEPTHS WAS MATCHED TO THE CASING SHOE AND AT THE BOTTOM OF THE 12.25 IN SECTION, AT CUSTOMER'S REQUEST.
- TOOL ZEROED AT 12:30 ON 11-DEC-2008 WITH A TIDE CORRECTION OF 0.74 M.
- CIRCULATION STOPPED AT 20:40 ON 10-NOV-2008 AFTER 57 HOURS DURATION.
- ADDITIONAL MUD PROPERTIES:
 PV/YP: 21/30
 CHLORIDES: 63,000 MG/L, NACL EQUIVALENT 103635 PPM
 NACL: 1.9 PPB
 KCL: 12.1% WT SOL
 BARITE: 1.2%
- MAXIMUM DEVIATION: 31 DEG AT 3336 M (ORIENTATION TOOL).
- MAXIMUM RECORDED TEMPERATURE FROM THERMOMETERS: 101, 101, 101 C.

- * MLL/DLL/XMAC/ZDL/CN/ORIT/GR/DSL/TTRM RUN IN COMBINATION.
- * ZDL/CN/GR/DSL RUN DECENTRALISED, BOWSPRING DECENTRALISER USED.
- * XMAC TOOL RUN CENTRALISED.
- * MLL/DLL RUN STOOD OFF.
- * SPECTRALOG DATA CORRECTED FOR KCL IN DRILLING MUD.
- * ZDL/CN DATA PRESENTED ON LIMESTONE SCALES.
- * NEUTRON POROSITY CORRECTED FOR BOREHOLE SIZE AND SALINITY.
- * DLL CORRECTED FOR BOREHOLE EFFECTS USING CALIPER CURVE.
- * XMAC DATA RECORDED IN FULLWAVE, CROSS DIPOLE MODE.
- * DT24 ONLY PRESENTED, POST PROCESSING REQUIRED FOR OTHER XMAC DATA.
- * TOTAL BOREHOLE VOLUME FOR RECORDED INTERVAL, 4365.5 TO 1546.3 IS 179.3 M3.
- * COMPUTED CEMENT VOLUME FOR RECORDED INTERVAL FOR 7 IN CASING IS 109.3 M3.
- * TOTAL INTEGRATED ACOUSTIC TRAVEL TIME: 759.4 MSEC OVER RECORDED INTERVAL.
- * TOOL HUNG UP AT 4409.5 M AND PULLED HIGH TENSION. LOG RECORDED WHEN PULLING UP AS PER CUSTOMER'S REQUEST.
- * NO REPEAT LOG RECORDED AS PER CUSTOMER'S REQUEST.

EQUIPMENT DATA

RUN	TRIP	TOOL	SERIES NO.	SERIAL NO.	POSITION
1	1	MRCH M	4460MA	10431760	FREE
1	1	MRCH E	4460EA	10127260	FREE
1	1	SWVL	3944XD	10127260	FREE
1	1	DHPA	4430XB	10173278	FREE
1	1	ISSB	3997XC	10411486	STD OFF
1	1	ISSB	3997XC	10127260	FREE
1	1	ENHANCER	9993DB	10498268	FREE
1	1	TTRM	3981XA	10045149	FREE
1	1	JAR	9993DA	10498267	FREE
1	1	COMR	3514XA	10177072	FREE
1	1	KNJT	3939XA	10168910	FREE
1	1	DSL	1329XB	10399813	DECENTRALISED
1	1	CN	2446XA	178125	DECENTRALISED
1	1	ZDL	2234XA	188262	PAD DEVICE
1	1	KNJT	3939XA	10399277	FREE
1	1	ORIT	4401XA	10171789	FREE
1	1	XMAC E	1677EA	10200962	FREE
1	1	XMAC RX	1678MC	10343086	CENTRALISED
1	1	XMAC ISO	1678PB	10195602	CENTRALISED
1	1	XMAC TX	1678BA	10217523	CENTRALISED
1	1	XMAC TXE	1678FA	10132925	CENTRALISED
1	1	SLAM	3518XA	183701	FREE
1	1	ISSB	3967XA	151158	FREE
1	1	DLL E	1239EA	10119425	STD OFF
1	1	DLL M	1239MA	10120337	STD OFF
1	1	OSUB	9993BF	10172734	FREE
1	1	MLL	1233XA	154386	PAD DEVICE

INSTRUMENT CONFIGURATION

Source File: /data/madfish1/DLL_SLAM-tdg

CABLEHEAD

Series : CABL338
 Mnemonic : CBLH
 Diameter : 8.6 cm
 Weight : 10.9 kg
 Length : 167.6 cm
 Measure Point: 83.8 cm: CABLEHEAD TOP

SWIVEL

Series : 3944XB
 Mnemonic : SWVL
 Diameter : 8.6 cm
 Weight : 29.5 kg

BOREHOLE POWER ADAPTER



58.39 m

CABLEHEAD TOP

57.56 m

CONDUIT TUBER ASSEMBLY
Series : 4430XB
Mnemonic : DHPA
Diameter : 9.2 cm
Weight : 36.4 kg
Length : 160.5 cm

MASS ISOLATION SUB - 12' JOINT

Series : 3997ZB
Mnemonic : ISSB
Diameter : 9.2 cm
Weight : 80.9 kg
Length : 361.9 cm

MASS ISOLATION SUB - 12' JOINT WITH SP

Series : 3997XB
Mnemonic : ISSB
Diameter : 9.2 cm
Weight : 80.9 kg
Length : 361.9 cm
Measure Point: 313.7 cm: SP

ENHANCER

Series :
Mnemonic :
Diameter : 9.2 cm
Weight : 54.5 kg
Length : 288.3 cm

TTRM SUB

Series : 3981XA
Mnemonic : TTRM
Diameter : 9.2 cm
Weight : 26.4 kg
Length : 116.8 cm

JAR

Series : JAR
Mnemonic : JAR
Diameter : 8.9 cm
Weight : 130.5 kg
Length : 329.6 cm

WTS COMMON REMOTE

Series : 3514XB



SP 49.99 m

TEMP MP 43.23 m
RM MP 43.15 m

Mnemonic : W15
Diameter : 9.2 cm
Weight : 58.2 kg
Length : 189.5 cm

KNUCKLE JOINT (DOUBLE)

Series : 3939XA
Mnemonic : KNJT
Diameter : 8.6 cm
Weight : 22.7 kg
Length : 141.8 cm

DIGITAL SPECTRAL LOG

Series : 1329XA
Mnemonic : DSL
Diameter : 9.2 cm
Weight : 60.9 kg
Length : 222.8 cm
Measure Point: 48.8 cm: GR MP

GR MP — 34.46 m

COMPENSATED NEUTRON

Series : 2448XA
Mnemonic : CN
Diameter : 9.2 cm
Weight : 68.2 kg
Length : 231.4 cm
Measure Point: 80.3 cm: LSN MP
Measure Point: 68.2 cm: SSN MP

LSN MP — 32.46 m
SSN MP — 32.34 m

Z-DENS LOG

Series : 2234XA
Mnemonic : ZDL
Diameter : 12.4 cm
Weight : 163.8 kg
Length : 341.9 cm
Measure Point: 97.3 cm: CAL MP
Measure Point: 75.4 cm: LSD MP
Measure Point: 63.2 cm: SSD MP

CAL MP — 29.21 m
LSD MP — 28.99 m
SSD MP — 28.87 m

KNUCKLE JOINT (DOUBLE)

Series : 3939XA
Mnemonic : KNJT
Diameter : 8.6 cm
Weight : 22.7 kg
Length : 141.8 cm

DIGITAL ORIENTATION

Series : 4401XB
Mnemonic : ORIT
Diameter : 8.6 cm
Weight : 51.4 kg
Length : 329.4 cm
Measure Point: 0.0 cm: ORIENT MP

ORIENT MP — 23.52 m

ARRAY ACOUSTIC LOG ELECTRONICS, 8 CHANNEL

Series : 1677EA
Mnemonic : XMAC
Diameter : 8.6 cm
Weight : 61.8 kg

Weight : 61.8 kg
Length : 238.3 cm

CROSS MULTIPOLE ARRAY ACOUSTILOG

Series : 1678MB
Mnemonic : XMAC
Diameter : 9.8 cm
Weight : 68.2 kg
Length : 332.4 cm
Measure Point: 167.6 cm: R8
Measure Point: 152.4 cm: R7
Measure Point: 137.2 cm: R6
Measure Point: 121.9 cm: R5
Measure Point: 106.7 cm: R4
Measure Point: 91.4 cm: R3
Measure Point: 76.2 cm: R2
Measure Point: 61.0 cm: R1

R8 --- 19.49 m
R7 --- 19.34 m
R6 --- 19.19 m
R5 --- 19.04 m
R4 --- 18.89 m
R3 --- 18.73 m
R2 --- 18.58 m
R1 --- 18.43 m

SHEAR WAVE ACOUSTILOG

Series : 1678PB
Mnemonic : XMAC
Diameter : 9.2 cm
Weight : 61.4 kg
Length : 152.4 cm

MULTI-POLE ARRAY ACOUSTIC

Series : 1678BA
Mnemonic : XMAC
Diameter : 9.8 cm
Weight : 79.5 kg
Length : 241.3 cm
Measure Point: 195.6 cm: QUADRUPOLE T5
Measure Point: 195.6 cm: MONOPOLE T2
Measure Point: 142.2 cm: Y-DIPOLE T4
Measure Point: 142.2 cm: X-DIPOLE T3
Measure Point: 88.9 cm: MONOPOLE T1

MONOPOLE T2 --- 15.84 m
QUADRUPOLE T5 --- 15.84 m

X-DIPOLE T3 --- 15.30 m
Y-DIPOLE T4 --- 15.30 m

MONOPOLE T1 --- 14.77 m

MULTI-POLE ARRAY ACOUSTIC

Series : 1678FA
Mnemonic : MAC
Diameter : 8.6 cm
Weight : 34.1 kg
Length : 131.6 cm

SLAM ADAPTER

Series : 3516XA
Mnemonic : SLAM
Diameter : 8.6 cm
Weight : 50.0 kg
Length : 160.7 cm

ISOLATION RETURN SUB

Series : 3967XB
Mnemonic : ISSB

DUAL LATERLOG MANDREL

Series : 1239XA
Mnemonic : DLLS
Diameter : 9.2 cm
Weight : 115.5 kg
Length : 545.1 cm
Measure Point: 179.1 cm: RS/RD MP

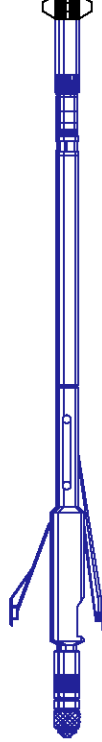
RS/RD MP --- 6.71 m



ORIENT

MICROLATEROLOG

Series : 1233XA
Mnemonic : MLL
Diameter : 12.1 cm
Weight : 150.0 kg
Length : 458.3 cm
Measure Point: 90.0 cm: MLL / CAL MP



MLL / CAL MP 0.90 m

0.00 m

BULL PLUG 3 1/8

TOTAL LENGTH: 58.46 m
TOTAL WEIGHT: 1580.0 kg
MAX DIAMETER: 12.4 cm

MAIN LOG 1:200 SCALE

ECLIPS 6.0i Feb 22, 2008
Patches: 1,2,4

Fri Dec 12 05:50:47 2008

Pcrplt /main/62

Cplot

Pdf_Cpp /main/16

Fileview 5.24

PARAMETER AND FILTER SUMMARY REPORT

FILE: /data/madflash1/k772102.prm
LOGGING MODE: DEPTH DIRECTION: UP
TOP DEPTH: 1517.544 m BOTTOM DEPTH: 4348.443 m

SYMMETRIC FILTER

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (m)	
CHT	FILTER ()	medium (1)		TOP	BOTTOM
TENSION	FILTER ()	medium (1)		"	"
SPBR	FILTER ()	medium (1)		"	"
GR	FILTER ()	medium (1)		"	"
CN	FILTER ()	medium (1)		"	"
CALIPER	FILTER ()	medium (1)		"	"
ZDL MED RES	FILTER (hrd1*)	medium		"	"
	FILTER (hrd1s*)	medium		"	"
	FILTER (hrd2*)	medium		"	"
	FILTER (hrd2s*)	medium		"	"
	FILTER (soft*)	medium		"	"
DT24	FILTER ()	light (2)		"	"
DLL	FILTER ()	medium (1)		"	"
MLL	FILTER ()	light (2a)		"	"

BOREHOLE & CEMENT

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (m)		
CASING - BOREHOLE & CEMENT VOLUME	CASING O.D.	7.000	In	TOP	BOTTOM	
	CASING THICKNESS	0.000	In	"	"	
X-Y COMBINED CALIPER PROCESSING	X-Y Caliper	X-Axis		"	"	
	BIT SIZE	12.250	In	TOP	3318.372	
MUD SAMPLE RESISTIVITY	MUD SAMPLE TEMP	8.500	In	3318.372	3352.419	
		12.250	In	3352.419	3353.791	
		8.500	In	3353.791	BOTTOM	
		MUD SAMPLE RES	0.064	ohm.m	"	"
BOREHOLE TEMP from GRADIENT	Known BH REF TEMP	23.0	degC	"	"	
		at BH REF DEPTH	0.0	m	"	"
		with TEMP GRADIENT	1.800	0.01 degC/m	"	"
		MUD DENSITY	1.16	g/cm3	"	"
BOREHOLE CORR DIAMETER SOURCE	CALIPER/FIXED DIA. (cnbh*)	USE CALIPER		TOP	4331.947	
		USE FIXED SIZE		4331.947	BOTTOM	
	CALIPER/FIXED DIA. (dibh*)	USE CALIPER		TOP	BOTTOM	
	CALIPER/FIXED DIA. (sibh*)	USE CALIPER		"	"	
	CALIPER/FIXED DIA. (zdbh*)	USE CALIPER		"	"	
BOREHOLE CORR DIAMETER	FIXED DIAMETER (cnbh*)	8.500	In	"	"	
	FIXED DIAMETER (dibh*)	8.500	In	"	"	
	FIXED DIAMETER (sibh*)	8.500	In	"	"	
BH MUD RESISTIVITY SOURCE	RMUD SOURCE	MUD SAMP DERIVED		"	"	

SLII PROCESSING

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (m)	
SLII BOREHOLE	KCL MUD CONTENT	12	pct	TOP	BOTTOM
E MATRIX	OPEN/CASED HOLE	OPEN HOLE		"	"
SLII AUTOGAIN	AUTO GAIN	AUTO GAIN ON		"	"
SLII ENERGY RANGE	ENERGY RANGE	1.30-3.00 MeV		"	"
SPECTRUM CALIBRATION	MODE	AUTOMATIC		"	"

CN PROCESSING

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (m)	
2446 CN MATRIX	2446 MATRIX	LIMESTONE		TOP	BOTTOM
CN SALINITY CORRECTION	SALINITY	103635	ppm	"	"
CN CASING & CEMENT CORRECTION	CORRECTION	OFF		"	"
	BIT SIZE BEHIND CSNG	17.500	In	"	"

ZDL PROCESSING

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (m)	
MUD DENSITY	MUD DENSITY	1.16	g/cm3	TOP	BOTTOM
ZDL	DENX TRACKING (2234XA 1)	ON		"	"

ACOUSTIC POROSITY

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (m)	
DELTA T CURVE SELECTION	DT24 SOURCE	FIRST ARRIVAL DT24		TOP	BOTTOM

ACOUSTIC PICK CONTROL

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (m)		
DELTA-T REJECTION RANGE	REJECTION DTmin	40	us/ft	TOP	BOTTOM	
	REJECTION DTmax	180	us/ft	"	"	
FIRST ARRIVAL PICK	SEARCH START OFFSET (sfan1*)	120	us	"	"	
	SEARCH START OFFSET (sfan2*)	120	us	"	"	
	SEARCH START OFFSET (sfan3*)	120	us	"	"	
	SEARCH START OFFSET (sfan4*)	120	us	"	"	
	SEARCH WINDOW LENGTH	1200	us	"	"	
	THRESHOLD FACTOR	0.30		"	"	
	THRESHOLD MINIMUM (sfan1*)	4.2	pct	TOP	2607.183	2682.589
		11.5	pct		2807.183	2882.589
		8.1	pct		2682.589	2683.031
		5.6	pct		2683.031	2684.221
		2.4	pct		2684.221	2685.347
		1.6	pct		2685.347	2722.367
		1.5	pct		2722.367	2722.478
		2.4	pct		2722.478	2723.139
1.9		pct		2723.139	2723.249	
1.8		pct		2723.249	2723.464	
1.8	pct		2723.464	BOTTOM		
THRESHOLD MINIMUM (sfan2*)	4.2	pct	TOP	2607.031	2682.437	
	11.5	pct		2607.031	2682.437	

	8.1	pct	2682.457	2682.879
	5.6	pct	2682.879	2684.069
	2.4	pct	2684.069	2685.195
	1.6	pct	2685.195	2722.214
	1.5	pct	2722.214	2722.326
	2.4	pct	2722.326	2722.986
	1.9	pct	2722.986	2723.096
	1.8	pct	2723.096	2723.312
	1.8	pct	2723.312	BOTTOM
THRESHOLD MINIMUM (sfan3*)	4.2	pct	TOP	2606.878
	11.5	pct	2606.878	2682.285
	8.1	pct	2682.285	2682.726
	5.6	pct	2682.726	2683.916
	2.4	pct	2683.916	2685.043
	1.6	pct	2685.043	2722.062
	1.5	pct	2722.062	2722.173
	2.4	pct	2722.173	2722.834
	1.9	pct	2722.834	2722.944
	1.8	pct	2722.944	2723.159
	1.8	pct	2723.159	BOTTOM
THRESHOLD MINIMUM (sfan4*)	4.2	pct	TOP	2606.726
	11.5	pct	2606.726	2682.132
	8.1	pct	2682.132	2682.574
	5.6	pct	2682.574	2683.764
	2.4	pct	2683.764	2684.890
	1.6	pct	2684.890	2721.909
	1.5	pct	2721.909	2722.021
	2.4	pct	2722.021	2722.681
	1.9	pct	2722.681	2722.792
	1.8	pct	2722.792	2723.007
	1.8	pct	2723.007	BOTTOM
E3 THRESHOLD		OFF	TOP	BOTTOM

ACOUSTIC QUALITY CONTROL

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (m)	
CYCLE SKIP LIMIT	CYCLE SKIP LIMIT	100	us	TOP	BOTTOM

ACOUSTIC WAVEFORM FILTER

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (m)	
WAVEFORM FILTER - DELTA T	SURFACE WAVE FILTER	ON		TOP	BOTTOM
	LOW FREQ CUTOFF	4000	Hz	''	''
	HIGH FREQ CUTOFF	30000	Hz	TOP	1592.961
		10000	Hz	1592.961	1618.640
		40000	Hz	1618.640	1624.965
		10000	Hz	1624.965	1677.695
		40000	Hz	1677.695	1746.580
		10000	Hz	1746.580	1948.053
		30000	Hz	1948.053	2160.041
		10000	Hz	2160.041	2339.721
		15000	Hz	2339.721	2689.631
		50000	Hz	2689.631	2695.818
		15000	Hz	2695.818	2697.691
		40000	Hz	2697.691	2726.665
		15000	Hz	2726.665	2744.629
	20000	Hz	2744.629	BOTTOM	

DLL PROCESSING

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (m)	
DLL BOREHOLE CORRECTION	BOREHOLE CORR	ON		TOP	BOTTOM
	DEEP TYPE	STANDARD		''	''
	SHALLOW TYPE	STANDARD		''	''
	TOOL POSITION	CENTRALIZED		''	''
	DEEP CURRENT RTN.	STANDARD		''	''
	ARMOR ISOLATOR	DUAL 12' ISOLATORS		''	''
	GRONINGEN RTN. DIST	40 FT RETURN		''	''

CURVE DESCRIPTION REPORT

CURVE NAME	CURVE ALIAS	CREATION DATE	CURVE DESCRIPTION
F1:BIT	BIT	Dec 11 22:52:38 2008	BIT SIZE
F1:BVOL	BVOL	Dec 11 22:52:38 2008	BOREHOLE VOLUME
F1:CAL	CAL	Dec 11 22:52:39 2008	CALIPER
F1:CHT	CHT	Dec 11 22:53:11 2008	CABLE HEAD TENSION
F1:CNC	CNC	Dec 11 22:53:11 2008	BOREHOLE SIZE CORRECTED COMPENSATED NEUTRON POROSITY
F1:DT24QI	DT24.I	Dec 11 22:53:14 2008	INTERVAL TRANSIT TIME OVER 24 INCH INTERVAL
F1:GR	GR	Dec 11 22:53:16 2008	GAMMA RAY
F1:KC	KC	Dec 11 22:53:17 2008	POTASSIUM INPUT FROM SPECTRALOG
F1:PE	PE	Dec 11 22:53:18 2008	PHOTO ELECTRIC CROSS-SECTION
F1:RD	RD	Dec 11 22:53:21 2008	DEEP RESISTIVITY
F1:RMLL	RMLL	Dec 11 22:53:21 2008	RESISTIVITY
F1:RS	RS	Dec 11 22:53:22 2008	SHALLOW RESISTIVITY

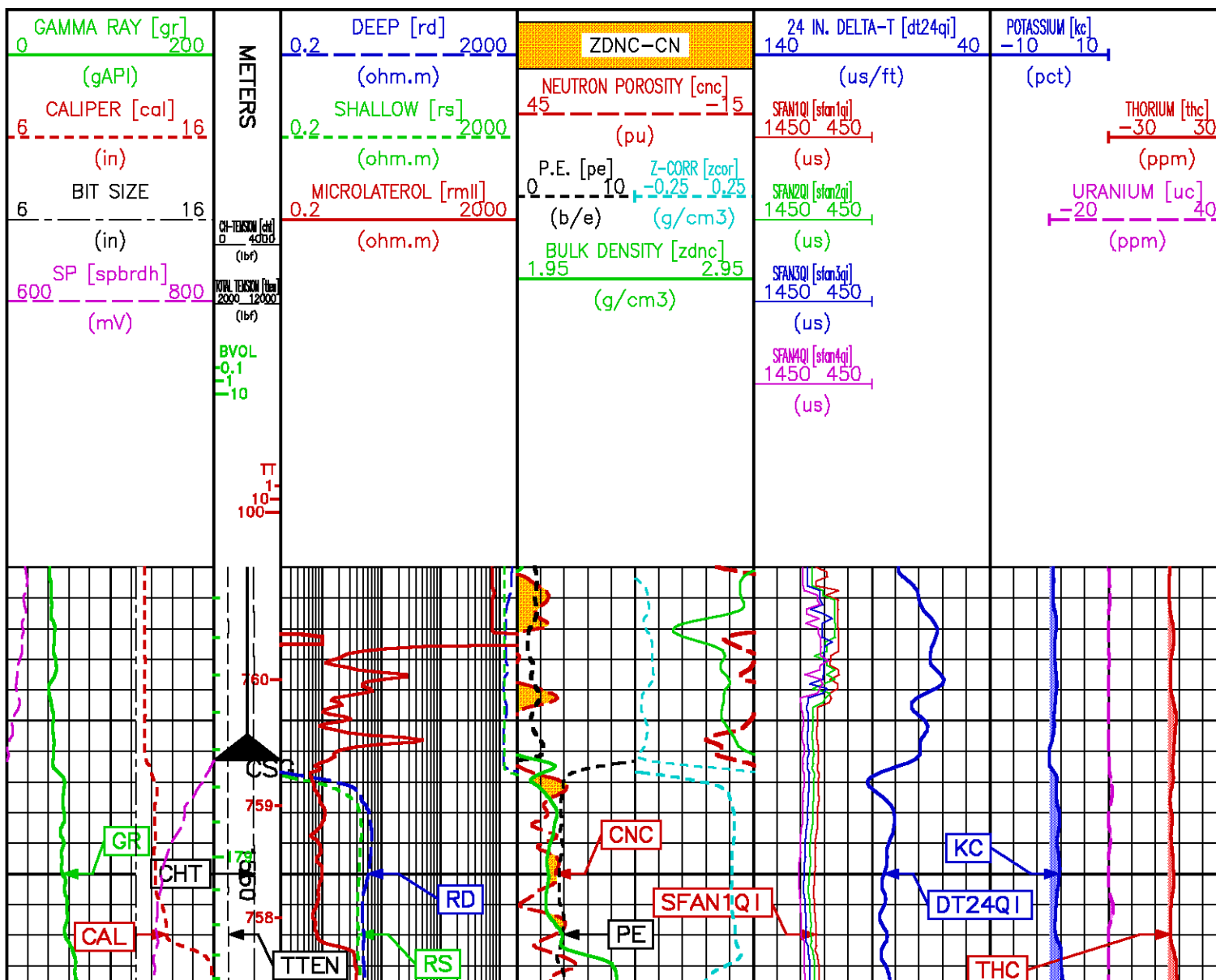
F1:SFAN1QI	SFAN1.1	Dec 11 22:53:22	2008	SURFACE PICK FIRST ARRIVAL TIME, T2R1
F1:SFAN2QI	SFAN2.1	Dec 11 22:53:22	2008	SURFACE PICK FIRST ARRIVAL TIME, T2R2
F1:SFAN3QI	SFAN3.1	Dec 11 22:53:23	2008	SURFACE PICK FIRST ARRIVAL TIME, T2R3
F1:SFAN4QI	SFAN4.1	Dec 11 22:53:23	2008	SURFACE PICK FIRST ARRIVAL TIME, T2R4
F1:SPBRDH	SPBRDH	Dec 11 22:53:23	2008	BRIDLE ELECTRODE PROCESSED IN COMMON REMOTE
F1:THC	THC	Dec 11 22:54:07	2008	THORIUM INPUT FROM SPECTRALOG
F1:TEN	TEN	Dec 11 22:54:14	2008	TOTAL TENSION
F1:TTQI	TT.1	Dec 11 22:54:13	2008	INTEGRATED TRAVEL TIME FROM ACOUSTIC DELTA-T
F1:ZCOR	ZCOR	Dec 11 22:56:05	2008	DENSITY CORRECTION
F1:ZDNC	ZDNC	Dec 11 22:56:05	2008	BOREHOLE SIZE/MUD WEIGHT CORRECTED DENSITY

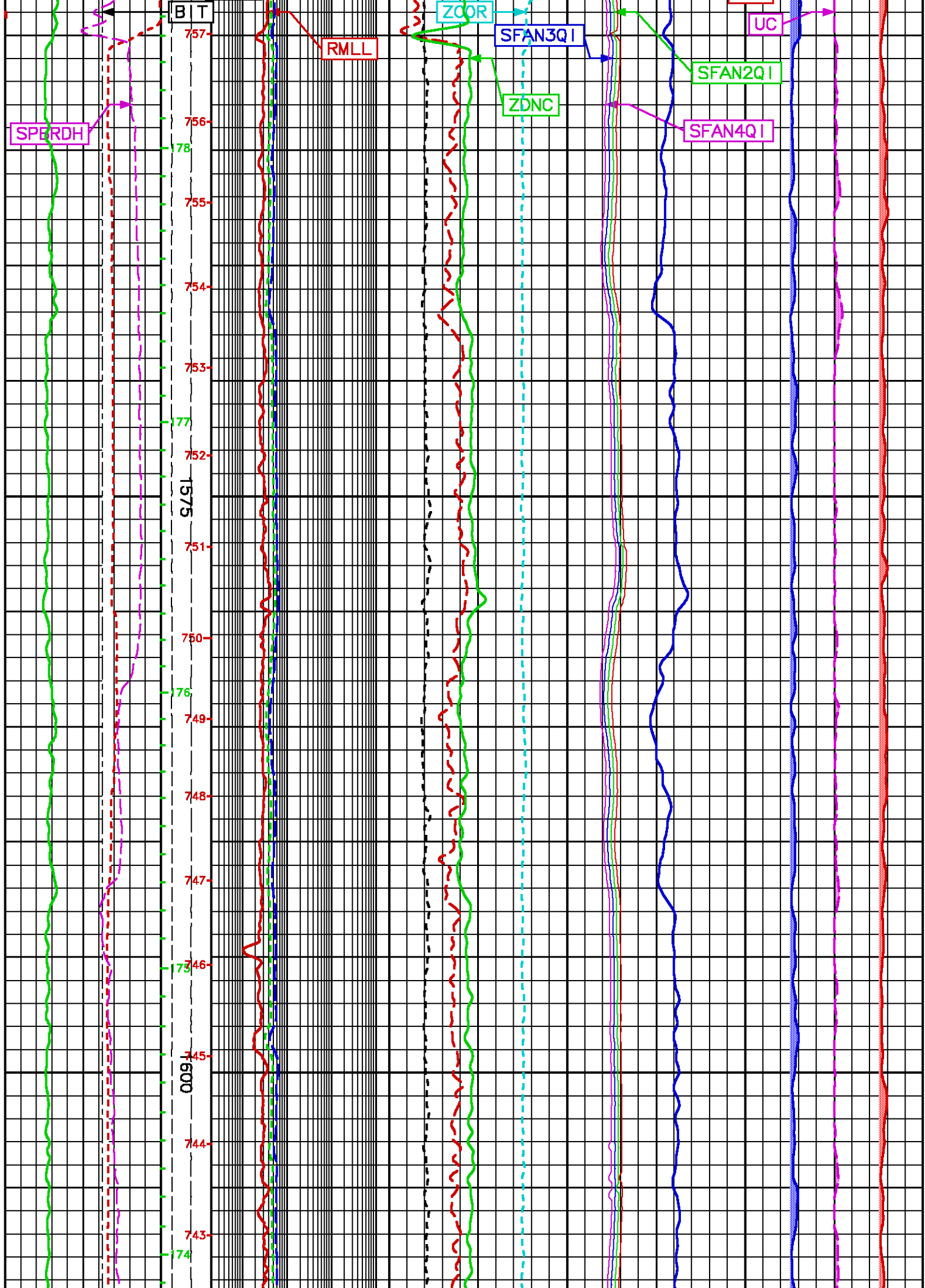
CURVE MEASURE POINT OFFSET

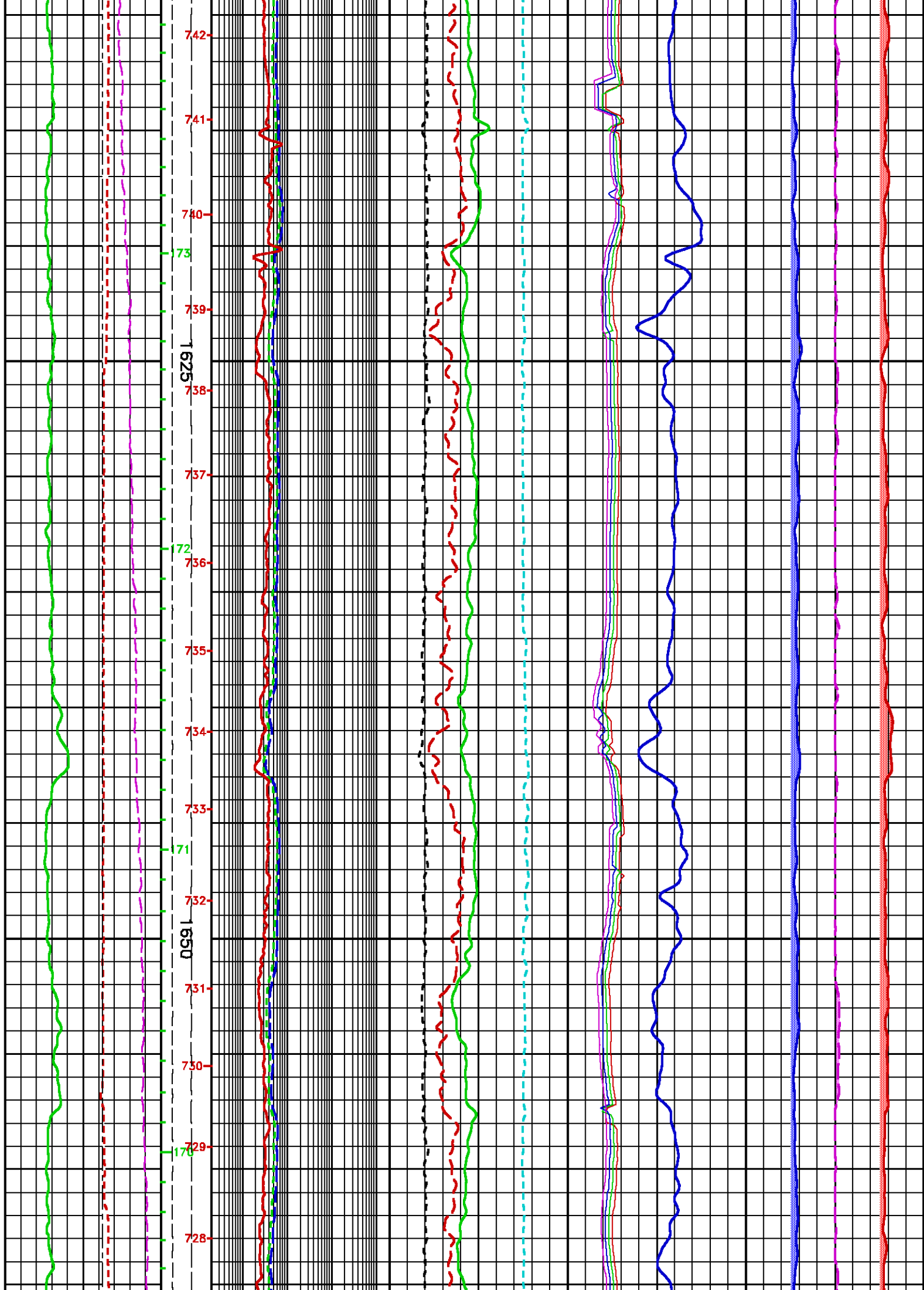
CURVE	OFFSET (m)	CURVE	OFFSET (m)	CURVE	OFFSET (m)	CURVE	OFFSET (m)
BIT	0.00	KC	34.44	SFAN2QI	17.22	UC	34.44
CAL	0.91	PE	28.99	SFAN3QI	17.22	ZCOR	28.99
CHT	0.00	RD	6.71	SFAN4QI	17.37	ZDNC	28.99
CNC	32.31	RMLL	0.91	SPBRDH	50.06		
DT24QI	16.46	RS	6.71	THC	34.44		
GR	34.44	SFAN1QI	17.07	TTEN	0.00		

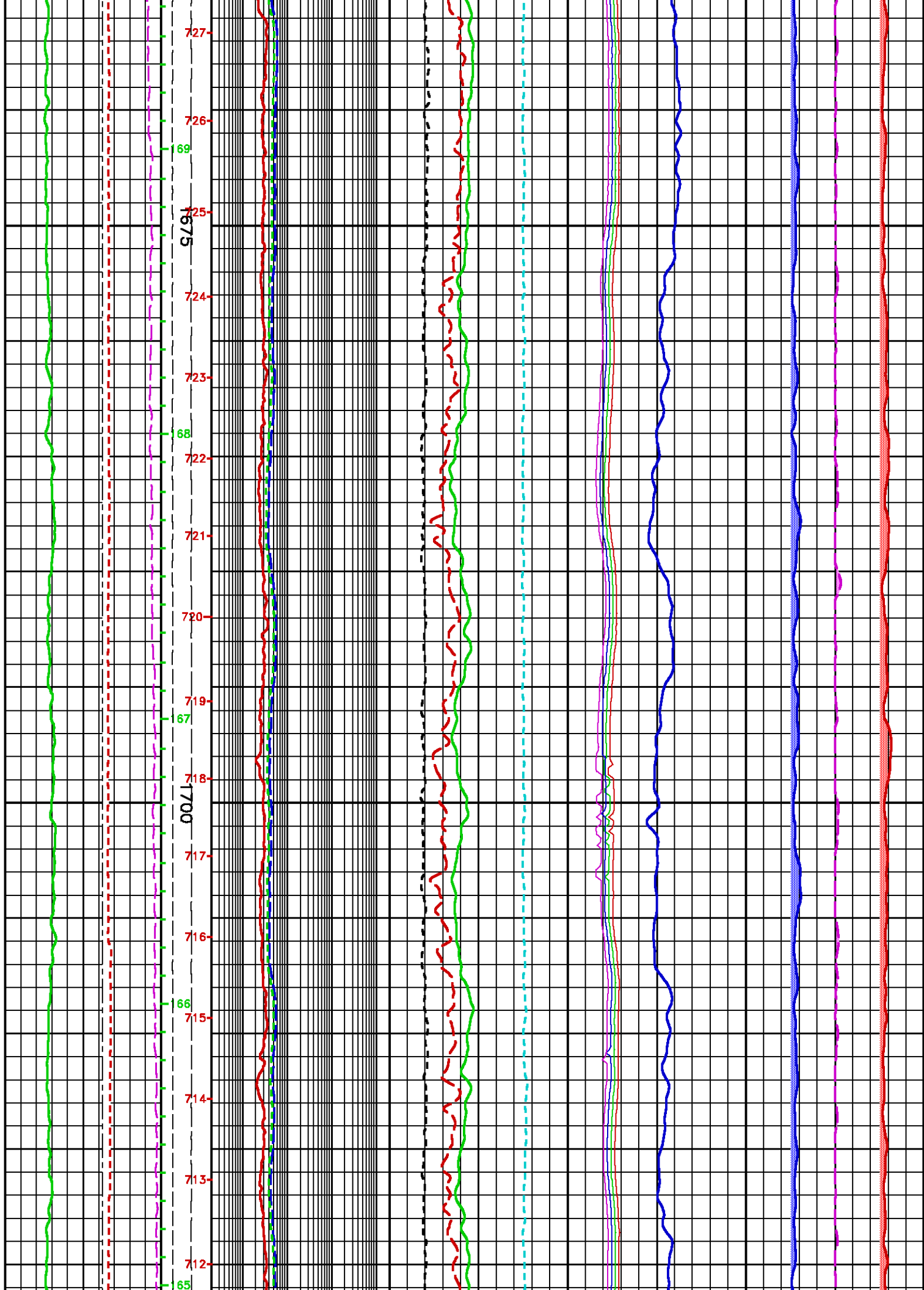
Presentation : sys1:/dat1a/madfish1/COMPOSITE_MAIN200.pdf [1:200 Scale]
 Plot Interval : 1540 - 4370 Meters

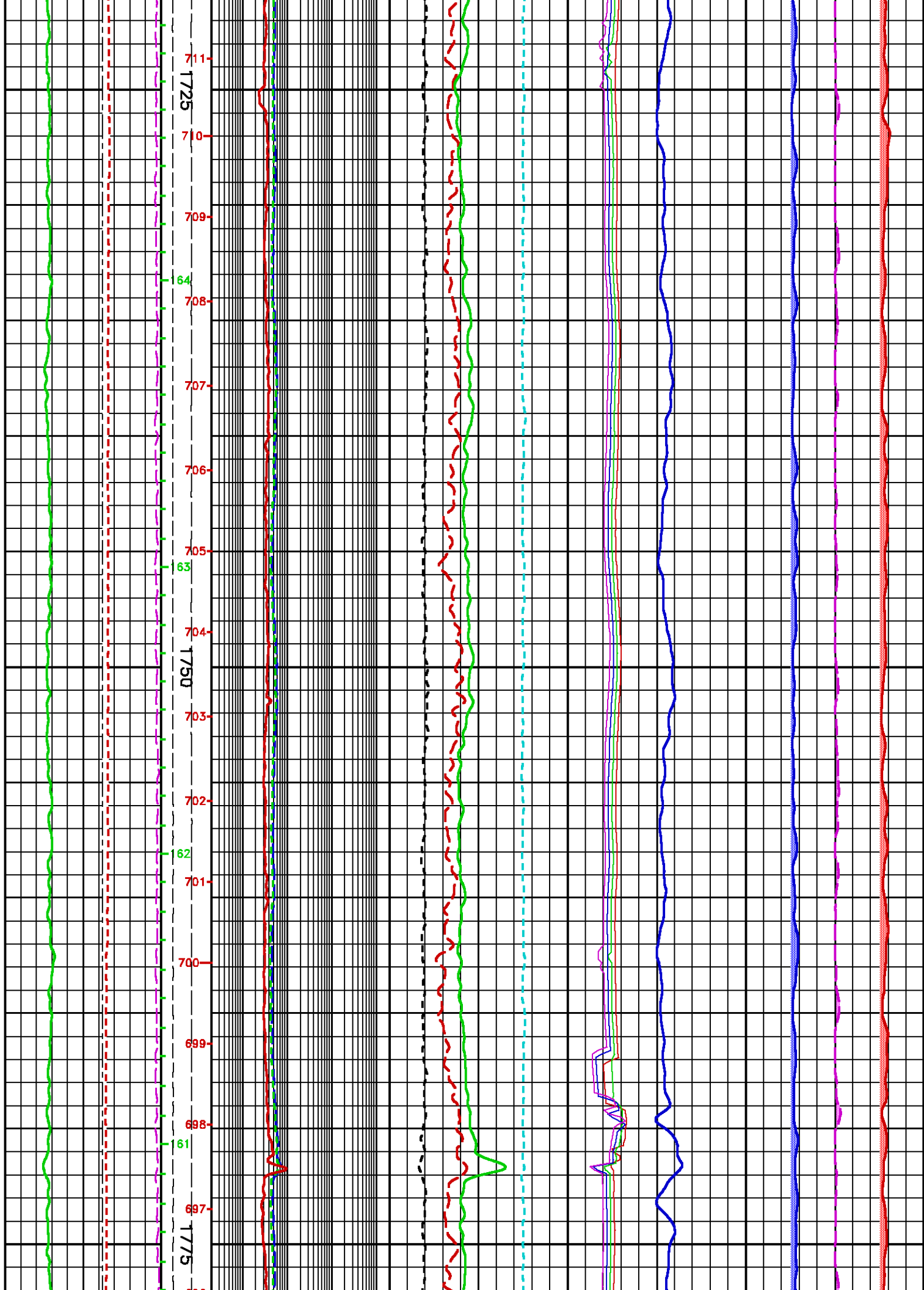
Data File 1 : F1 : sys1:/dat1a/madfish1/main.xtf
 Created On : Dec 11 15:45:39 2008
 Company : APACHE ENERGY LIMITED
 Well : MADFISH 1
 Field : EXPLORATION
 File Interval : 1488.11 - 4367.78 Meters
 Oct : k772l

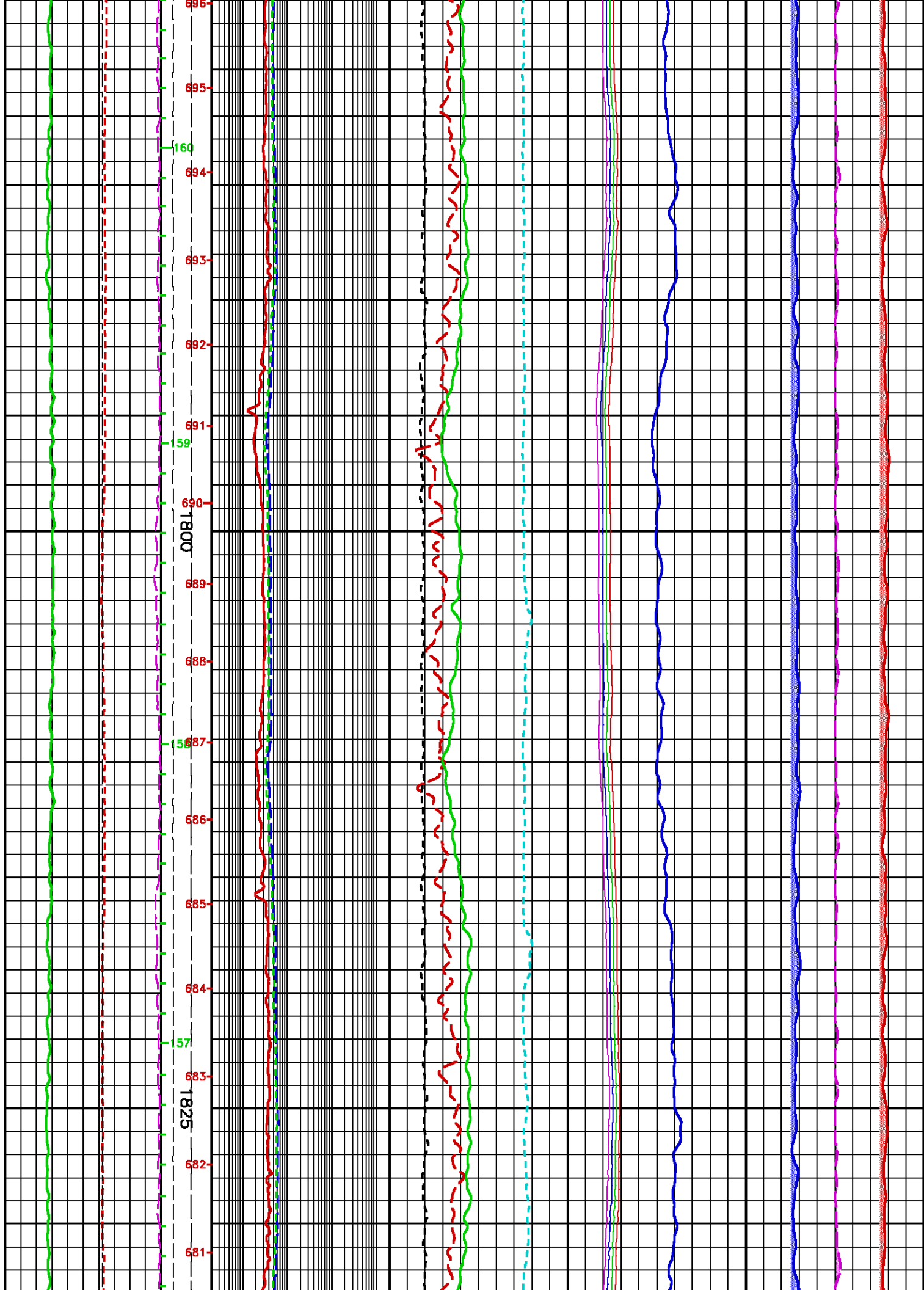


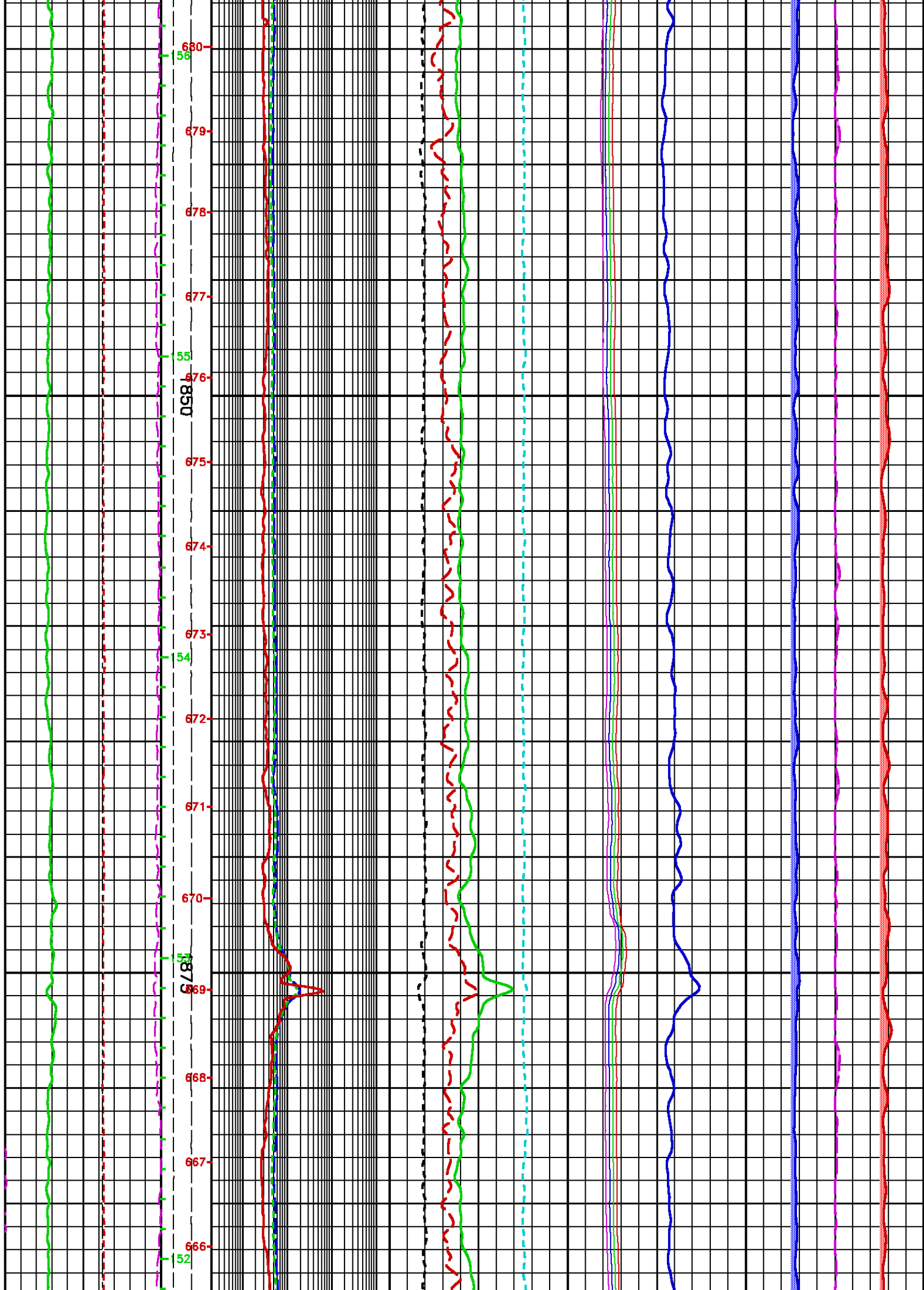


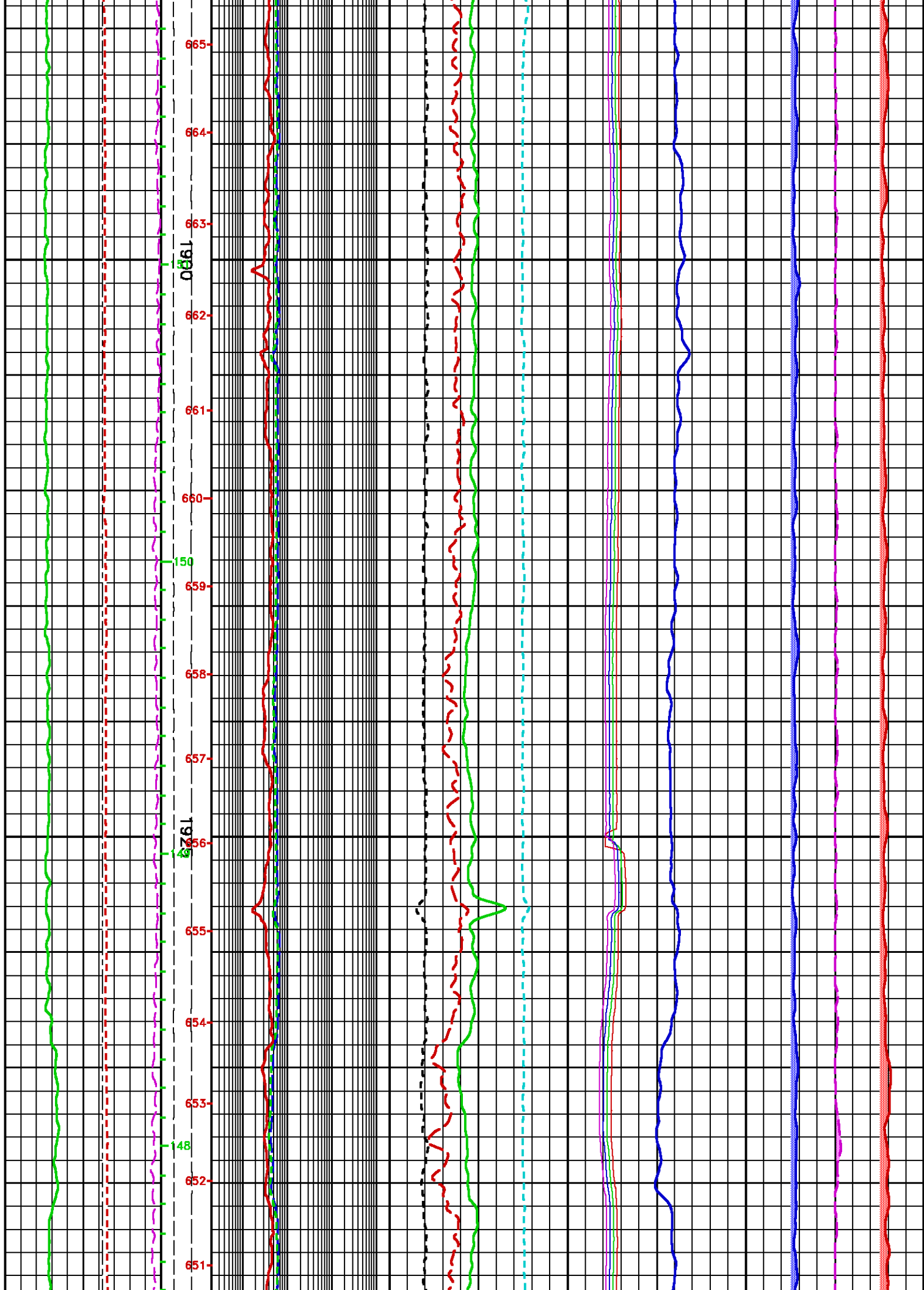


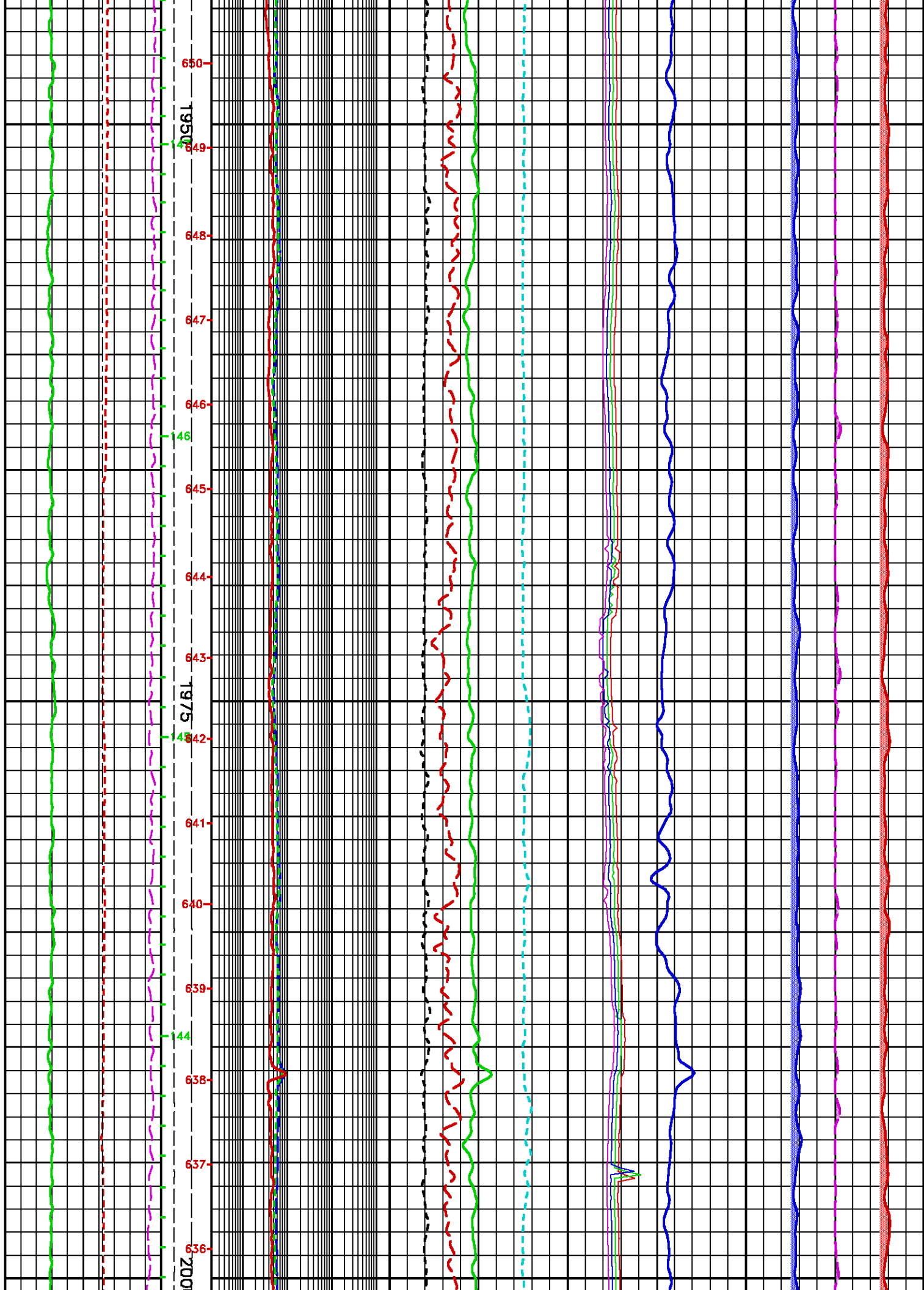


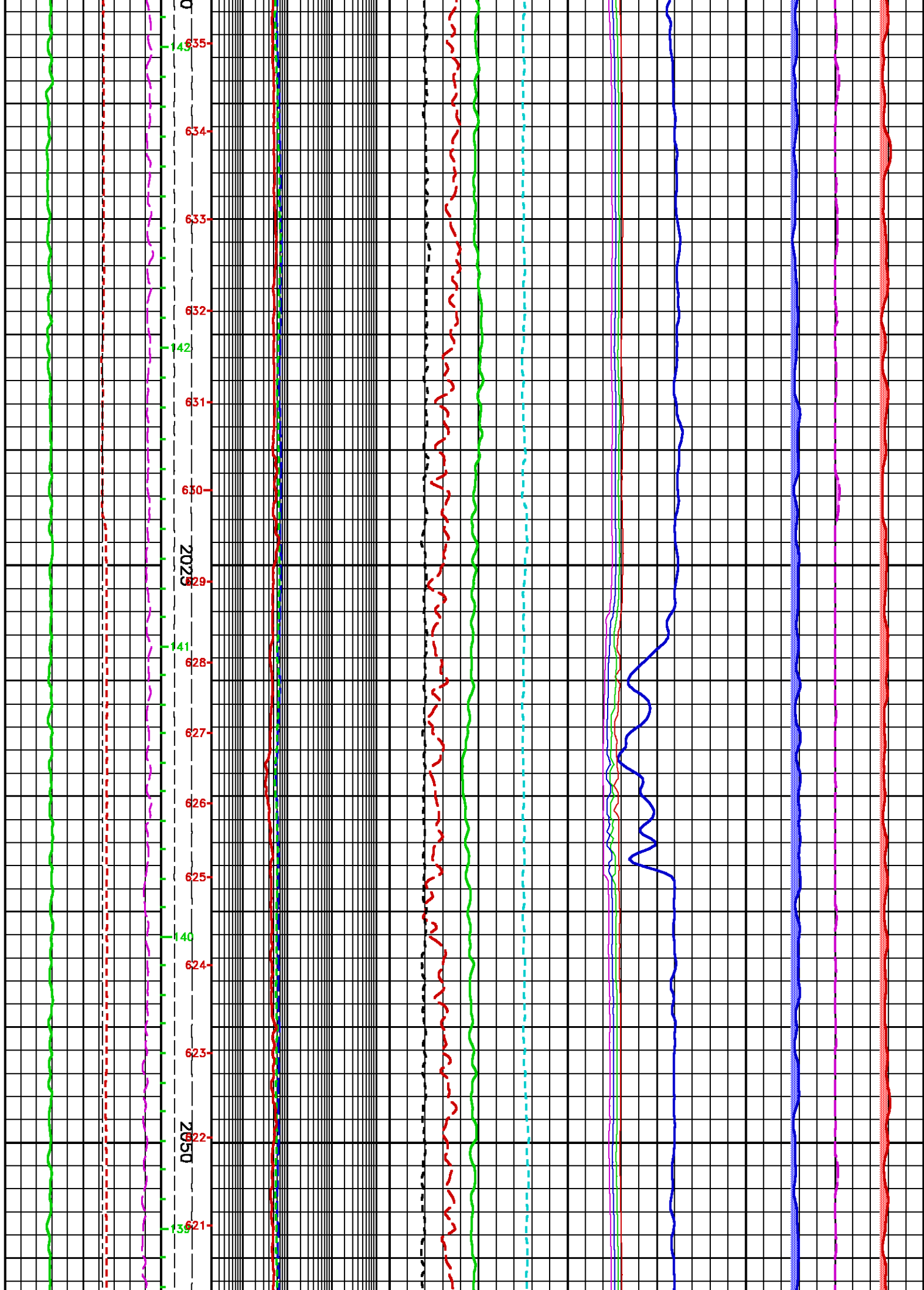


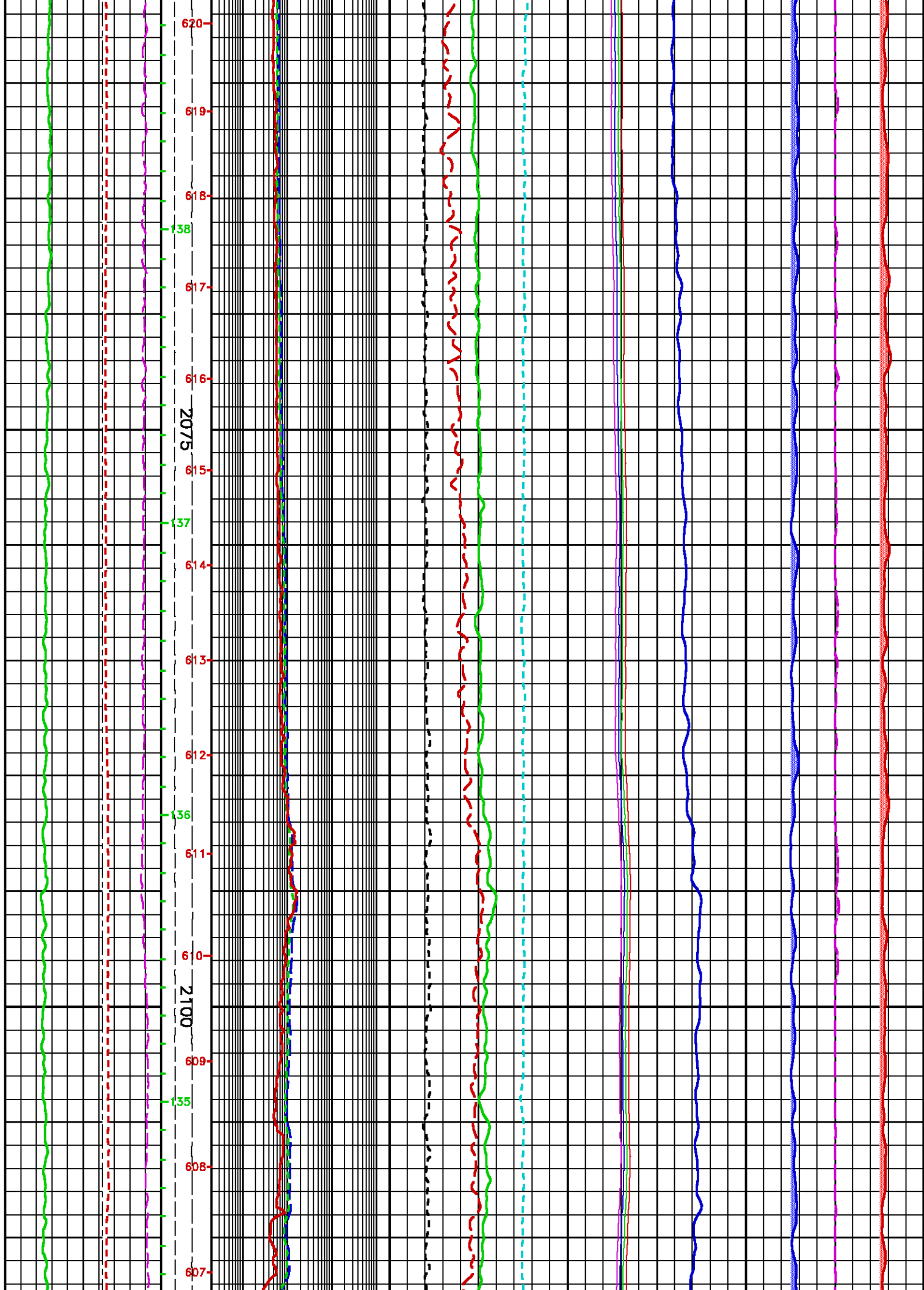


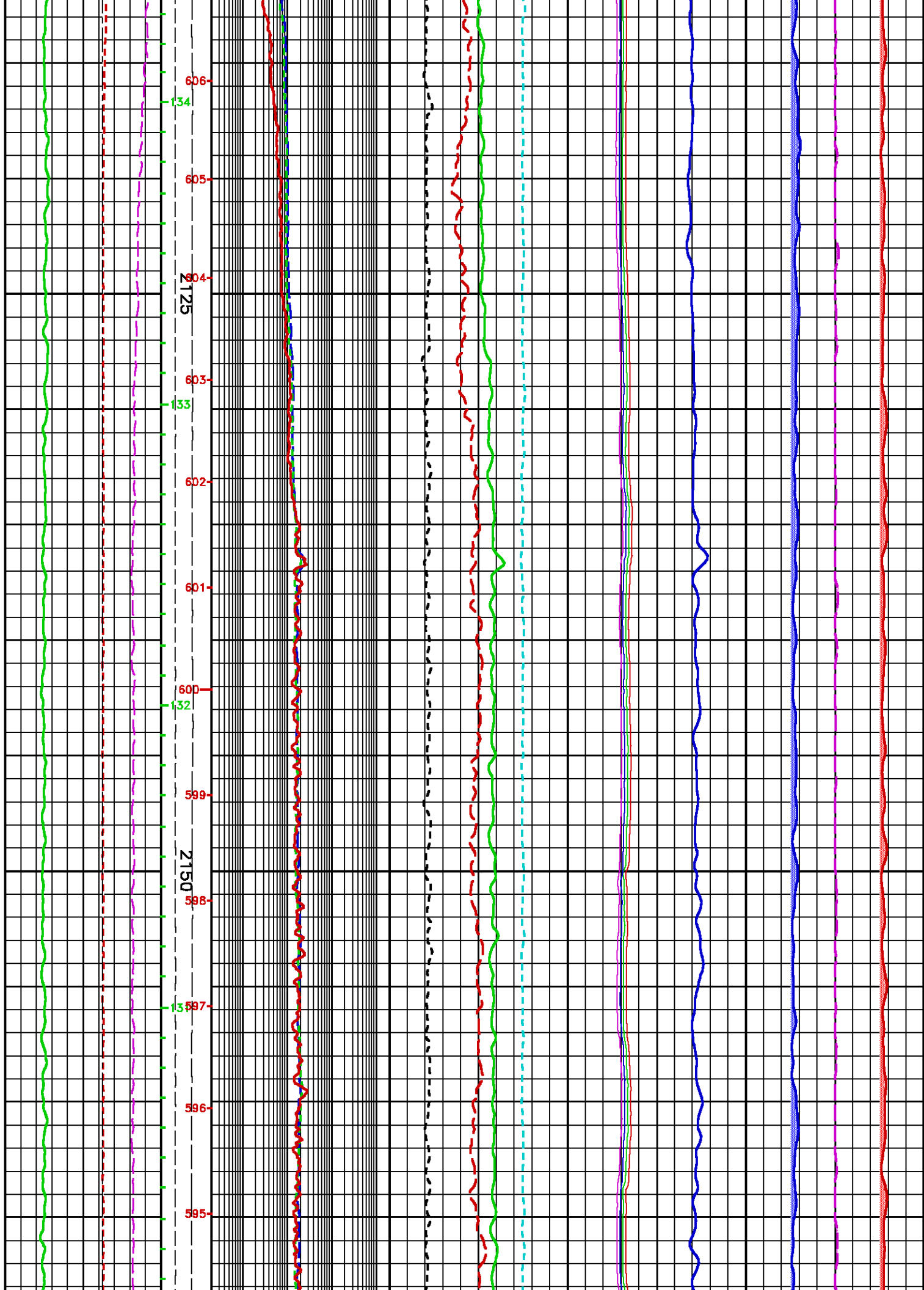


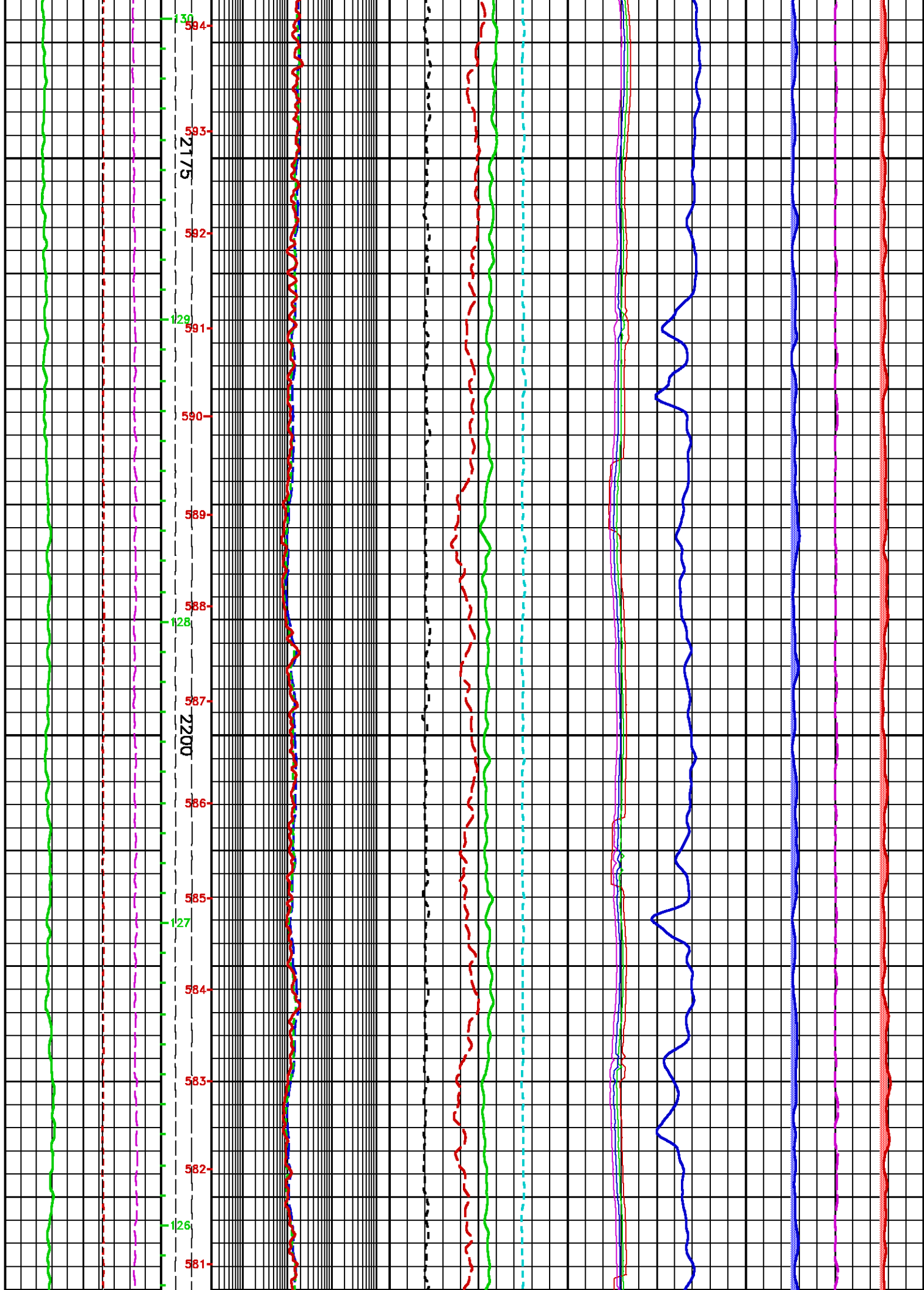


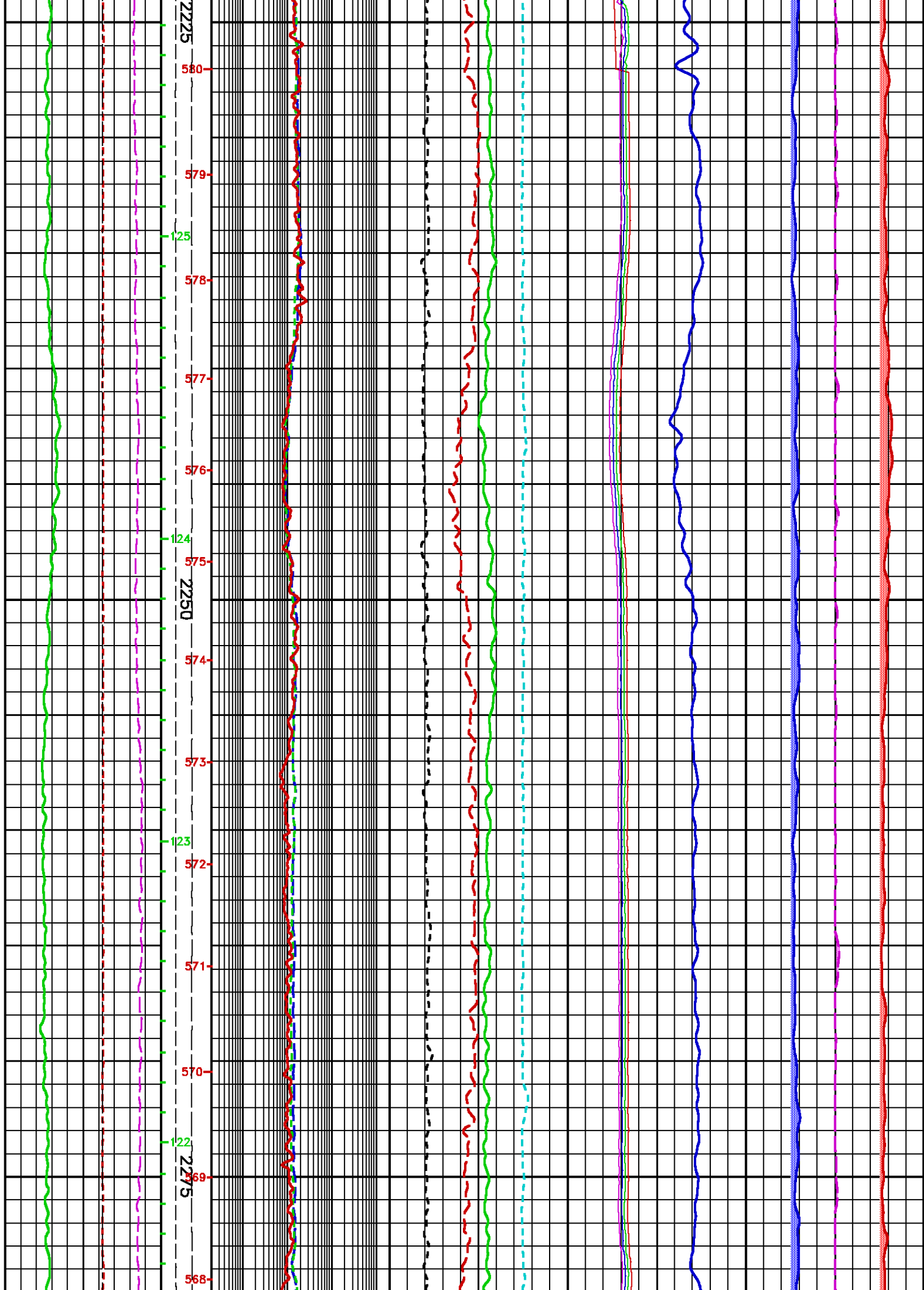


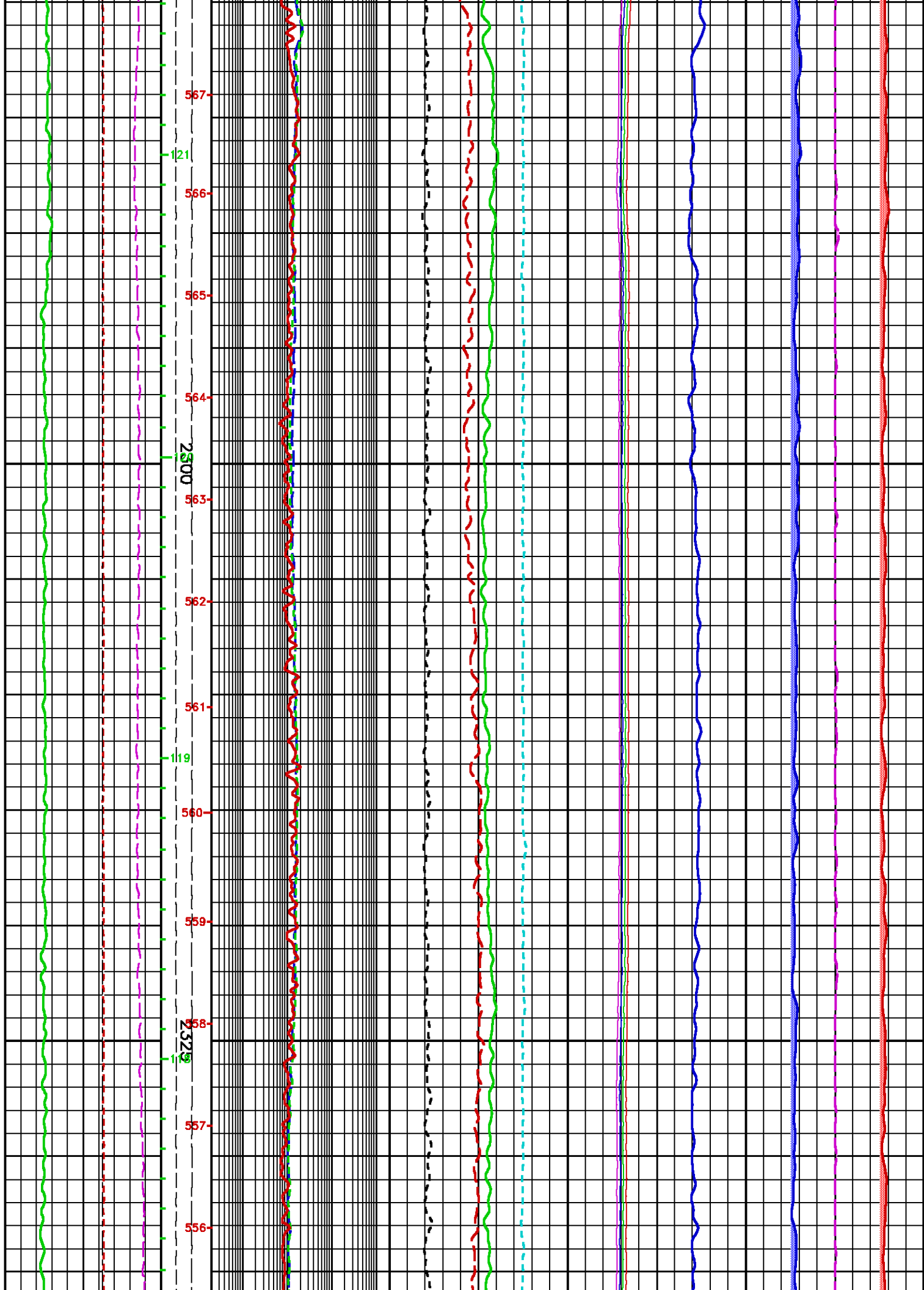


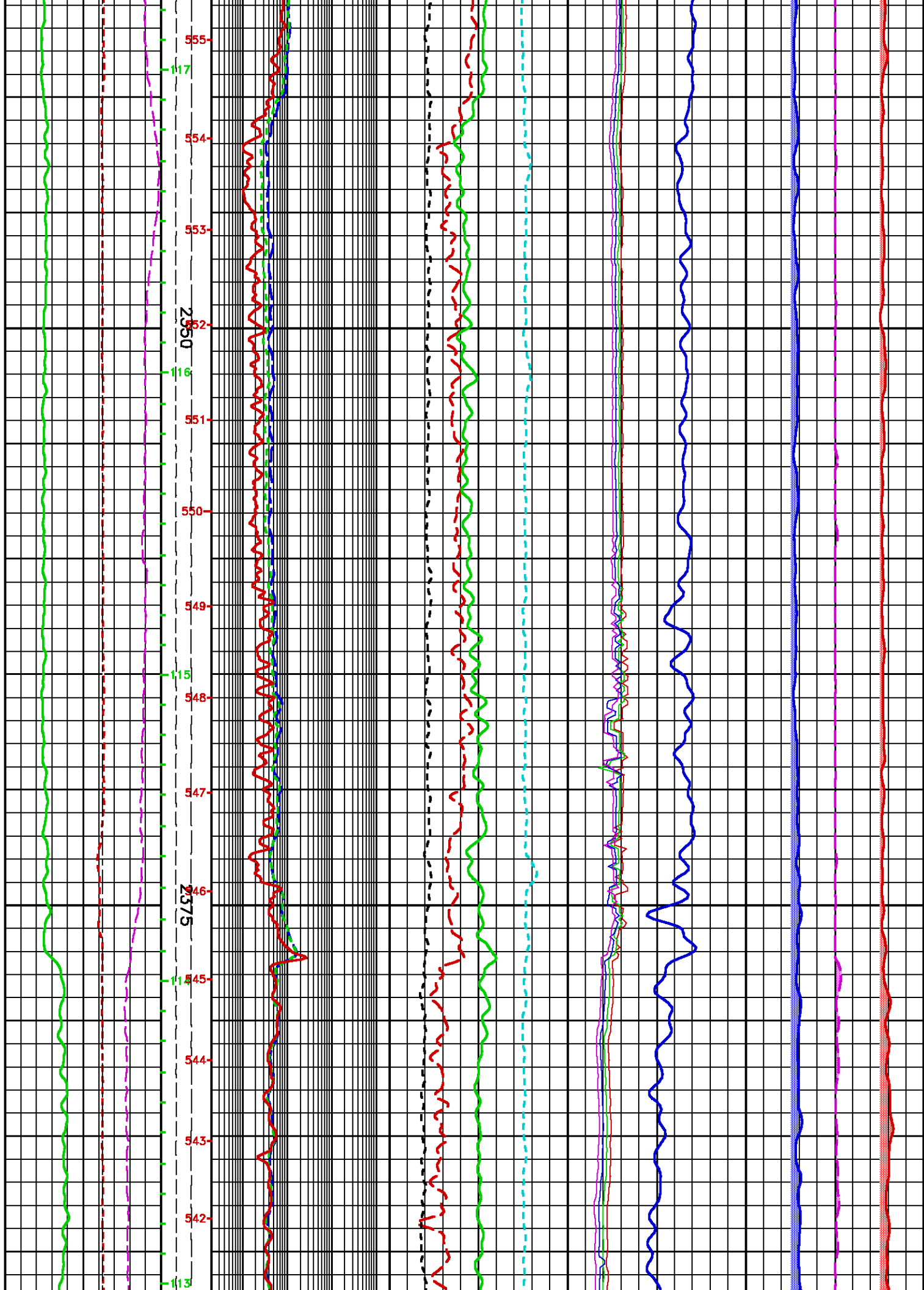


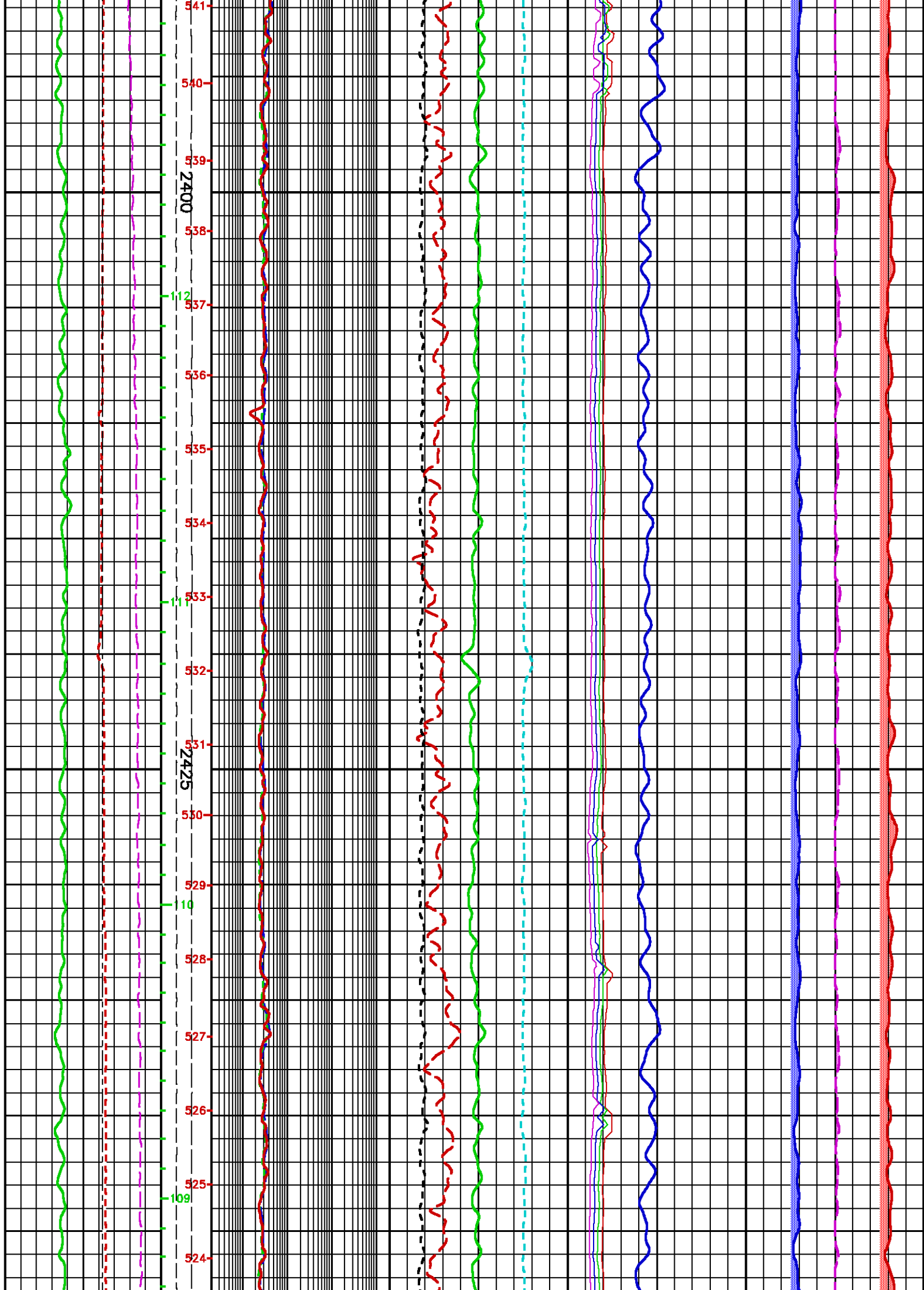


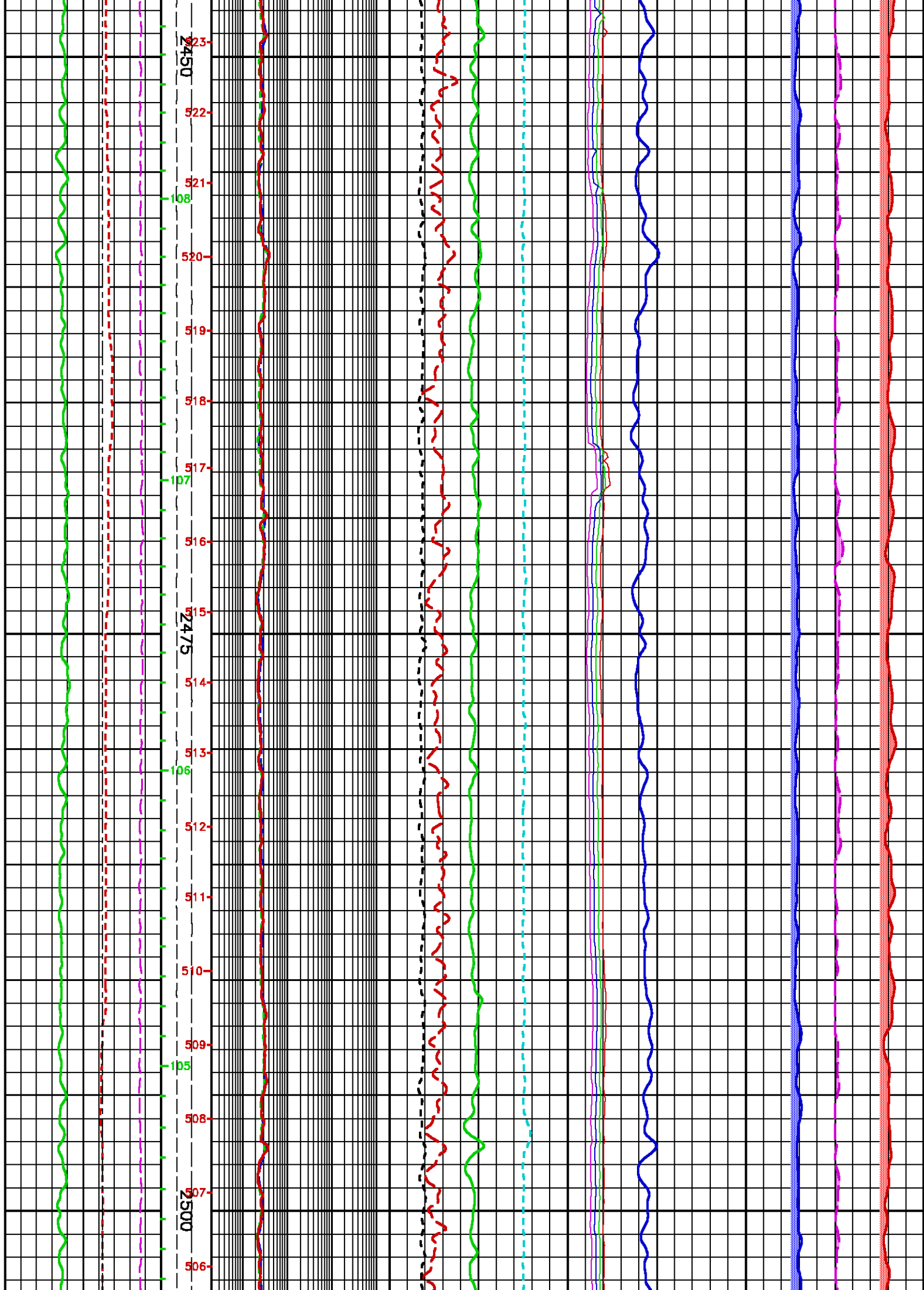


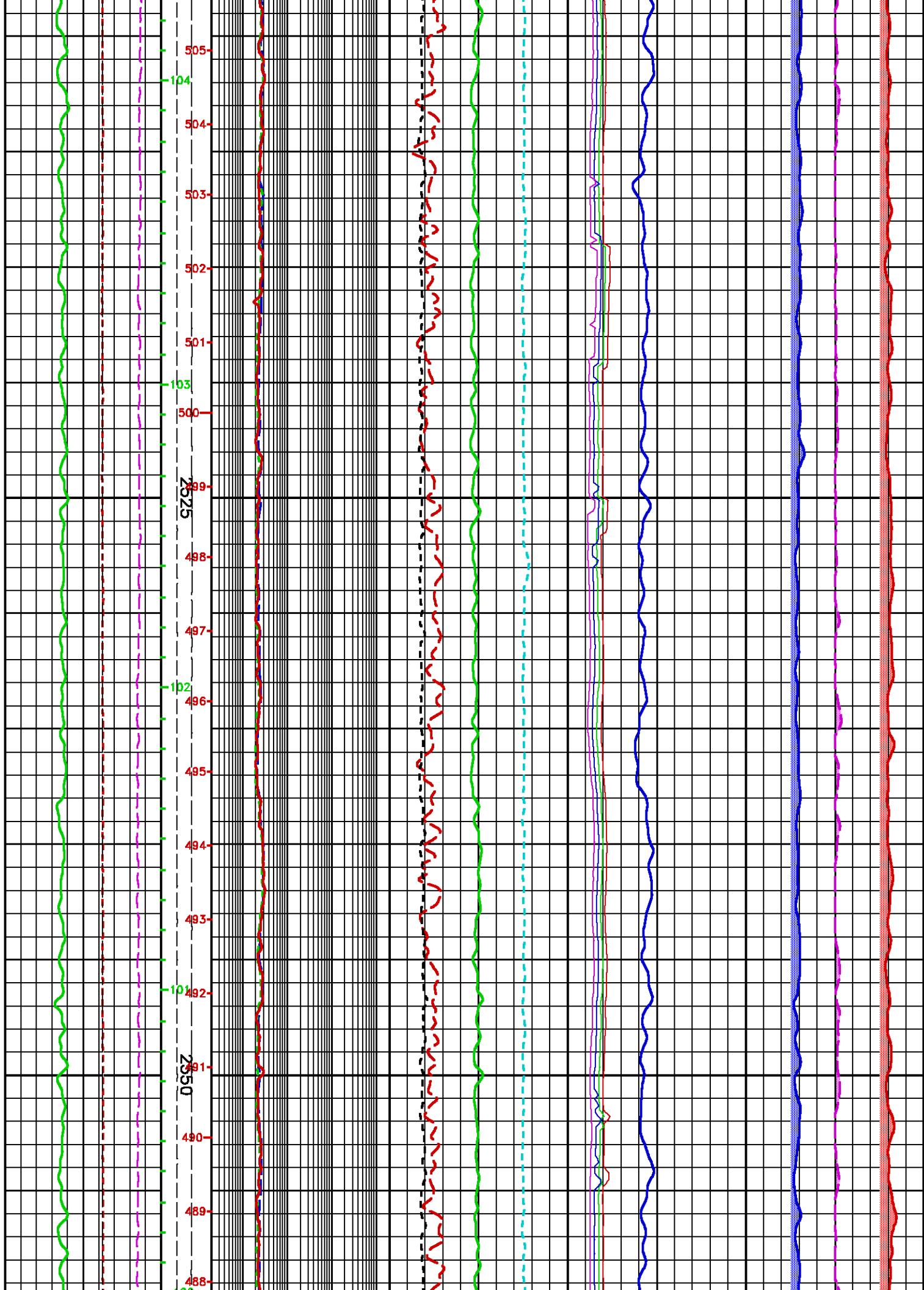


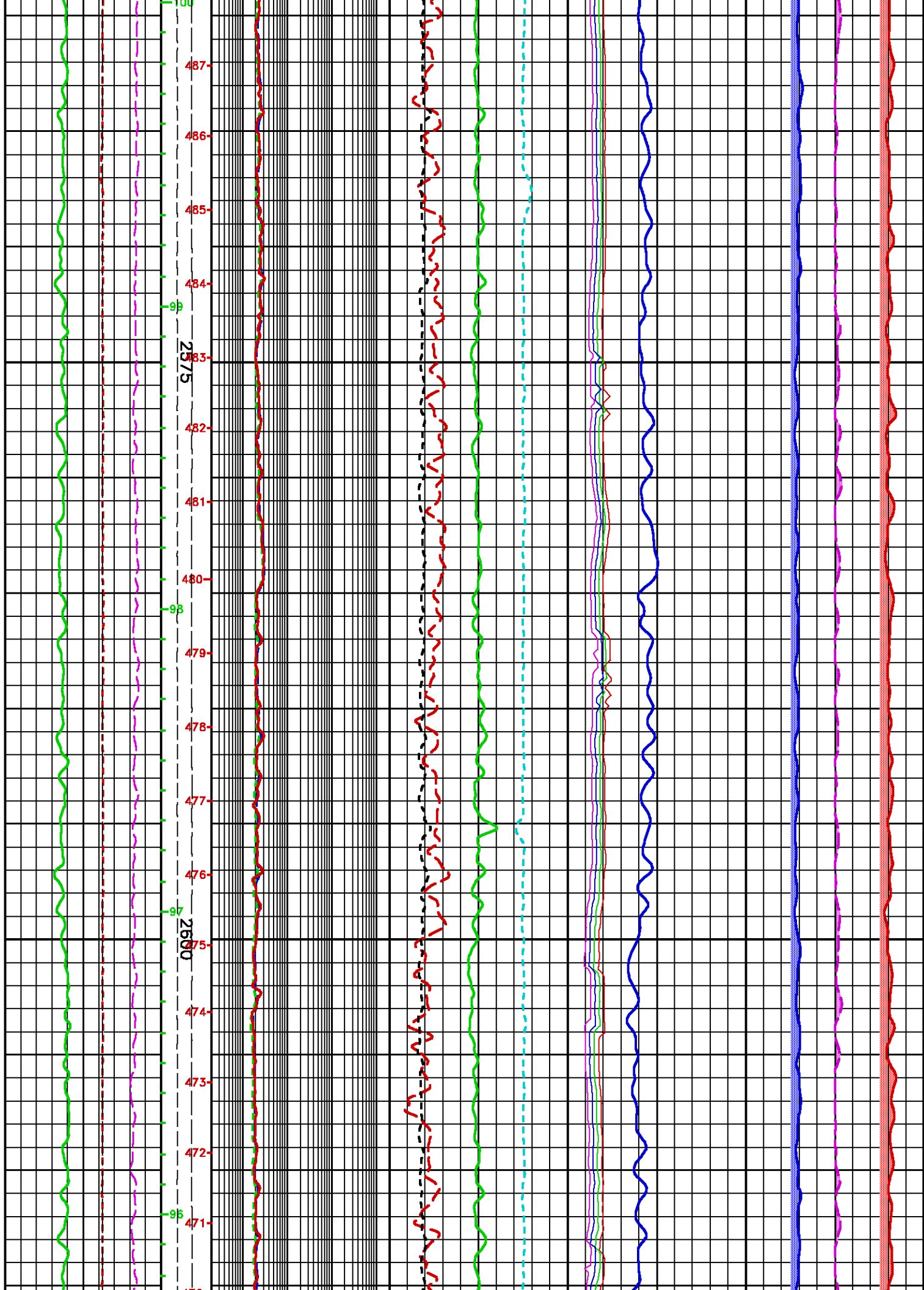


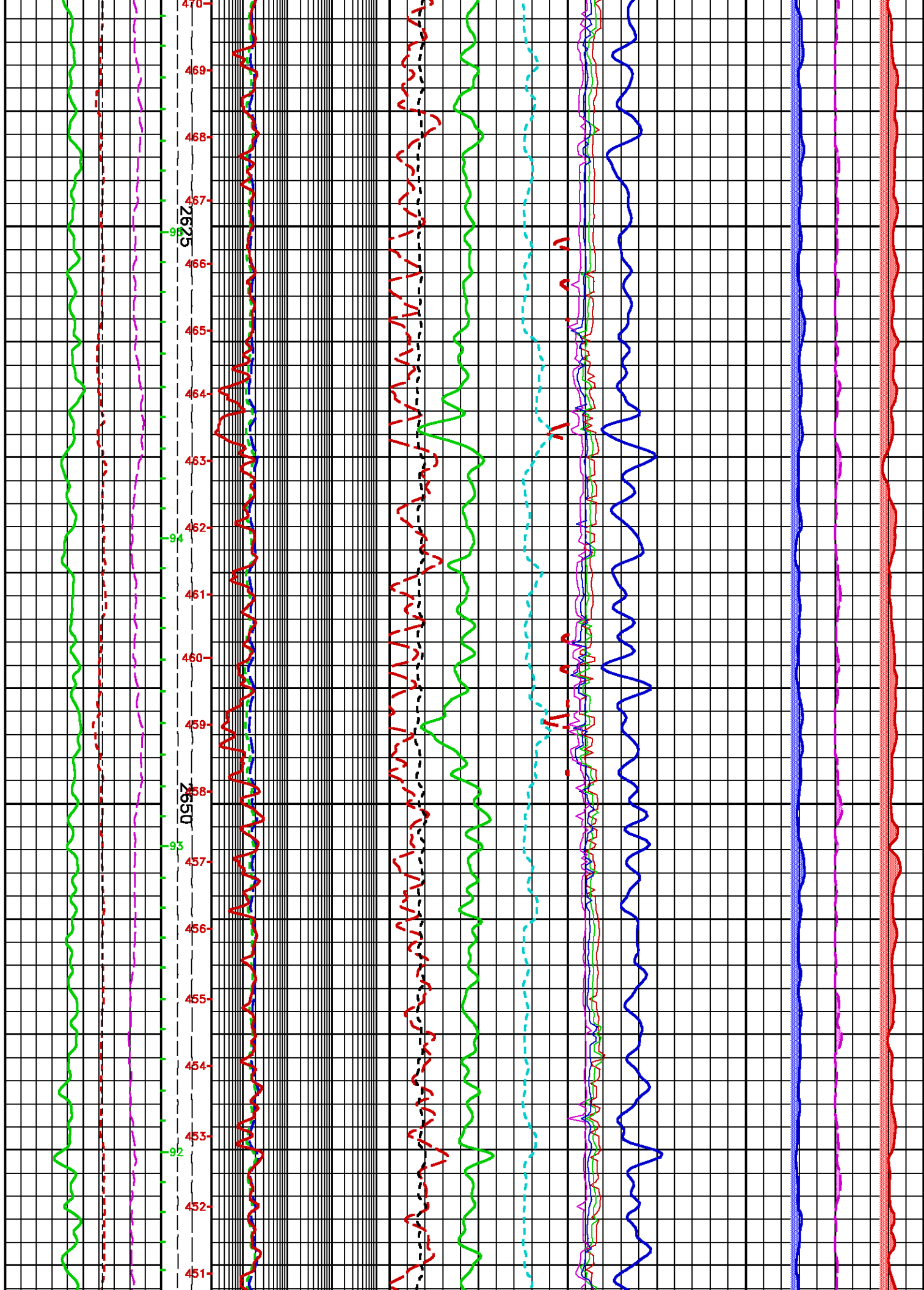


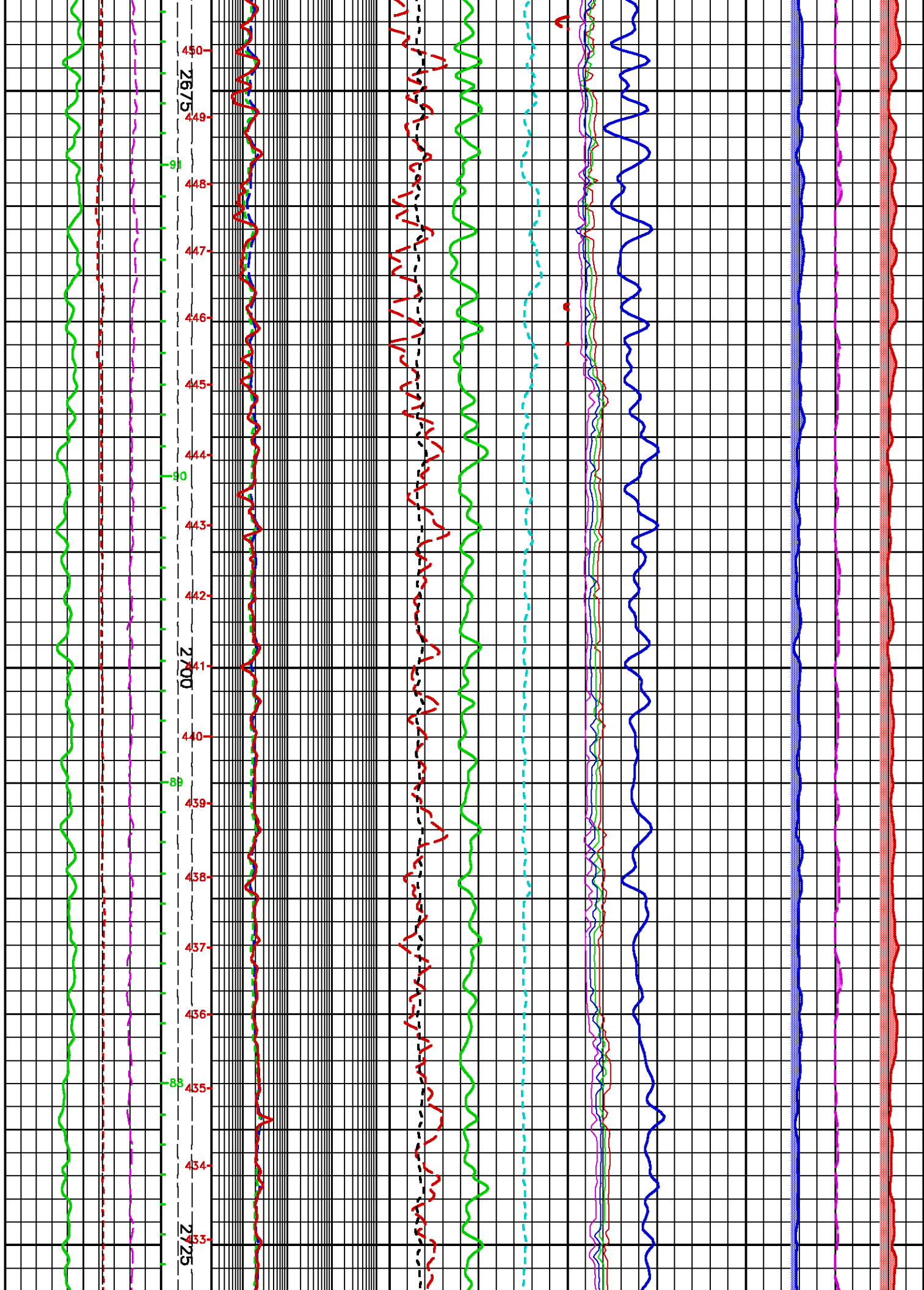


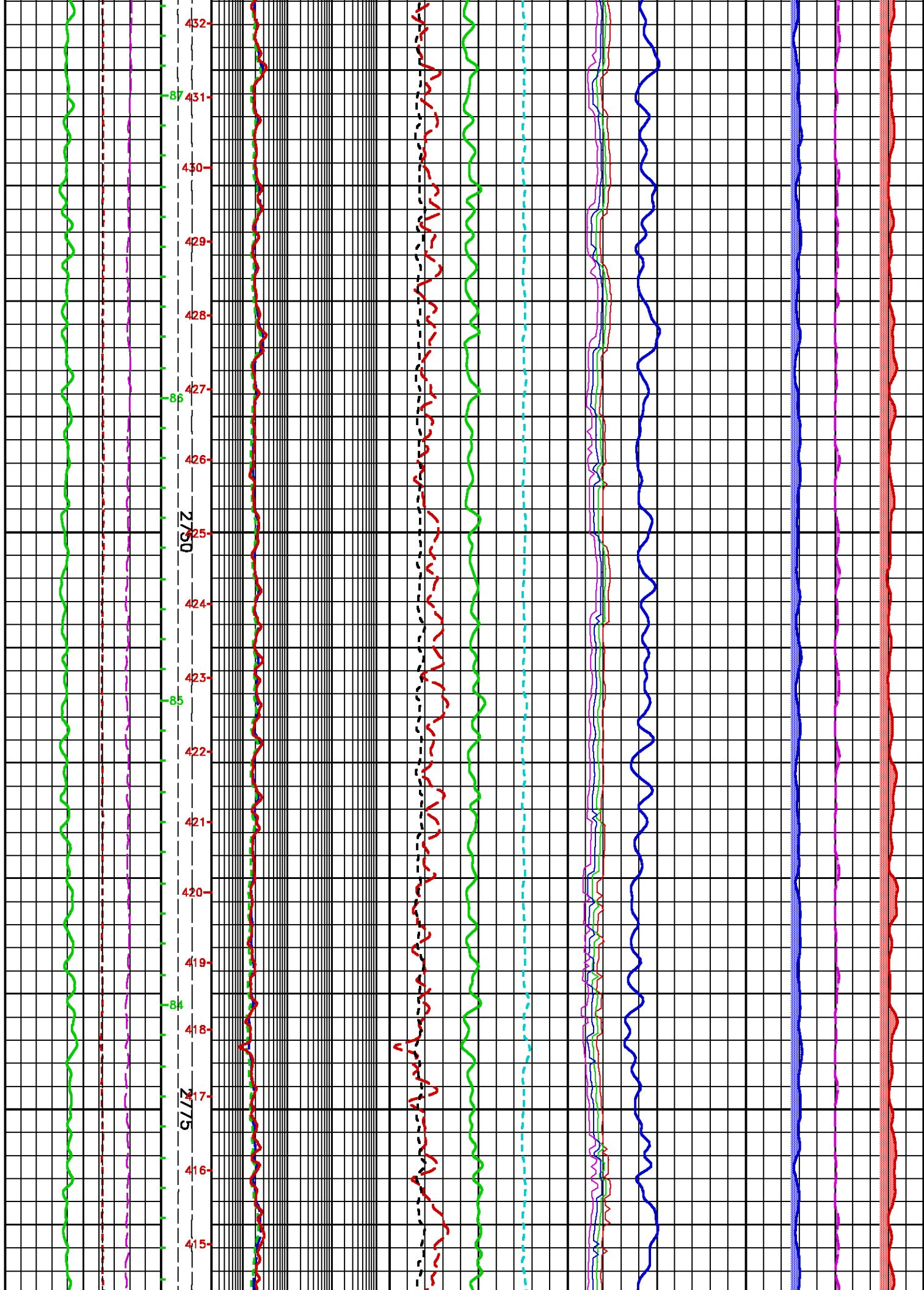


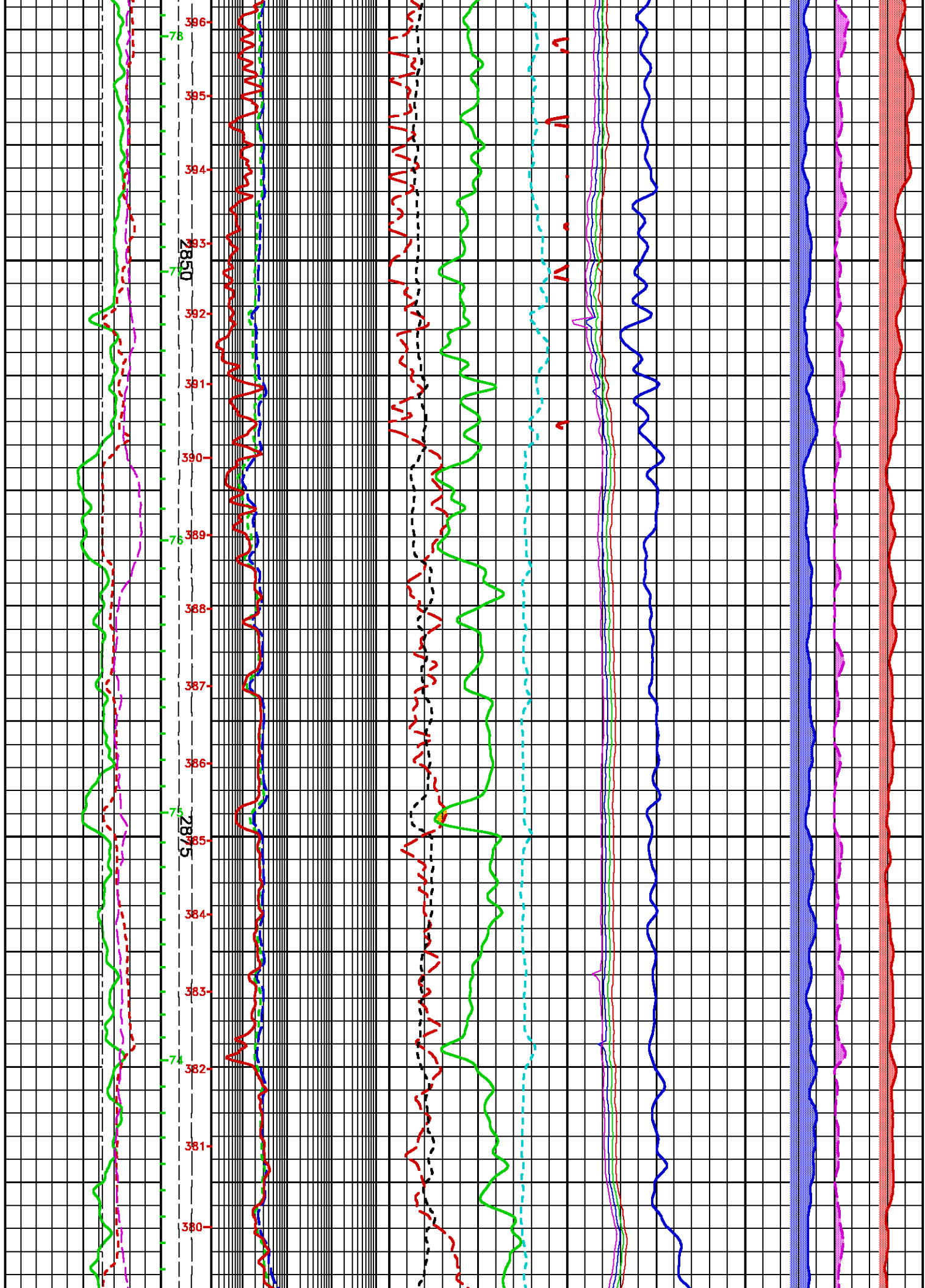


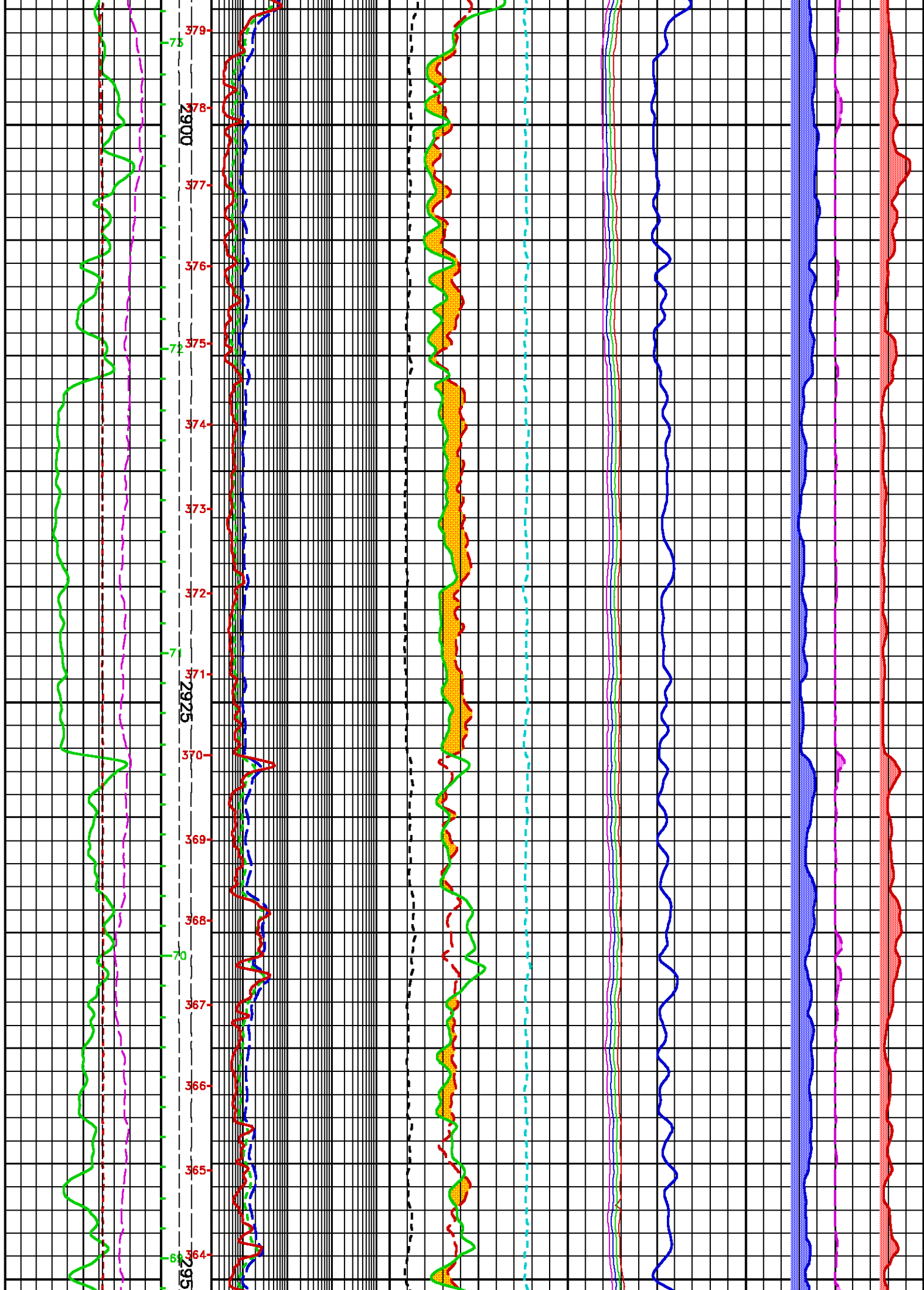


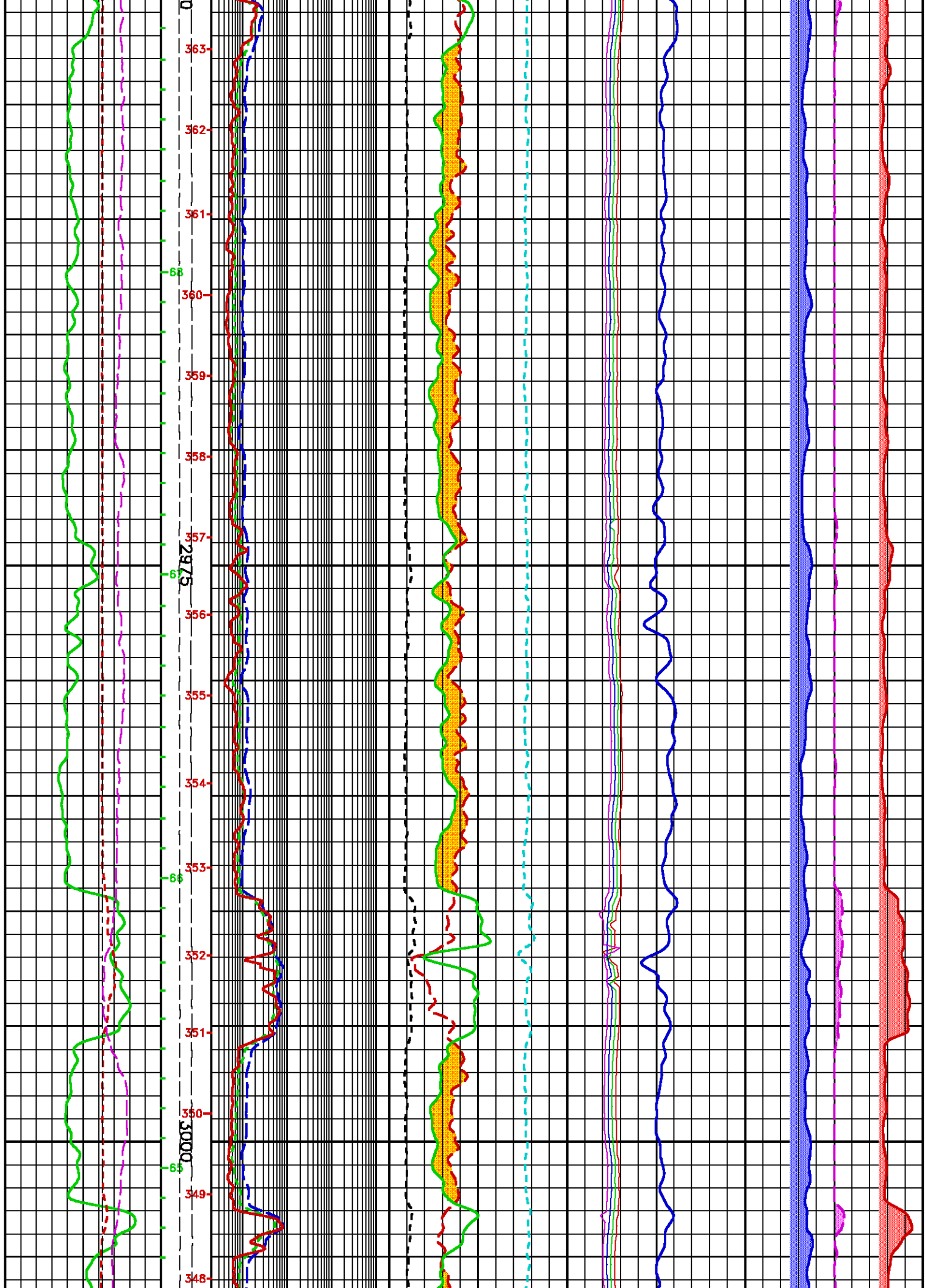


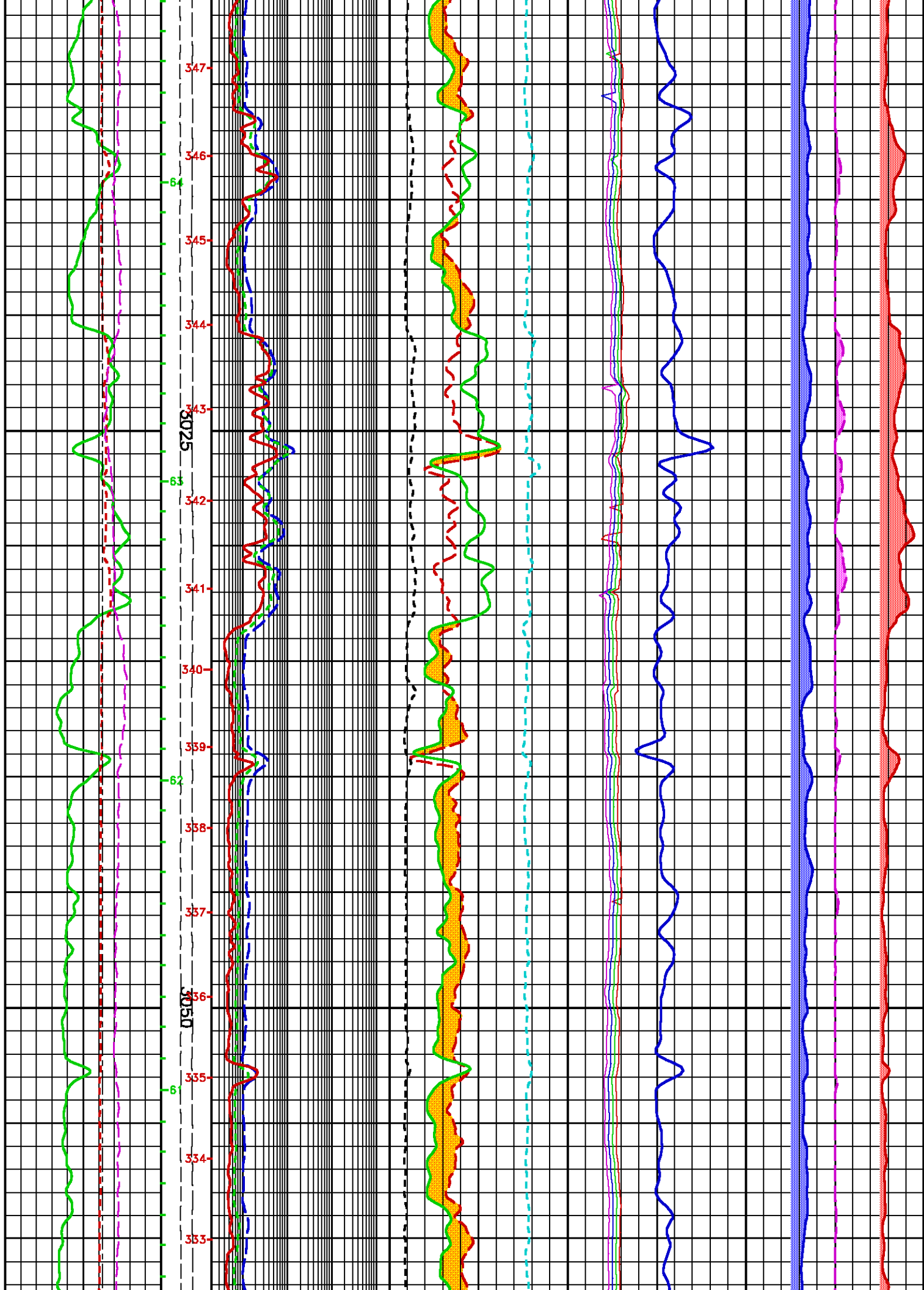


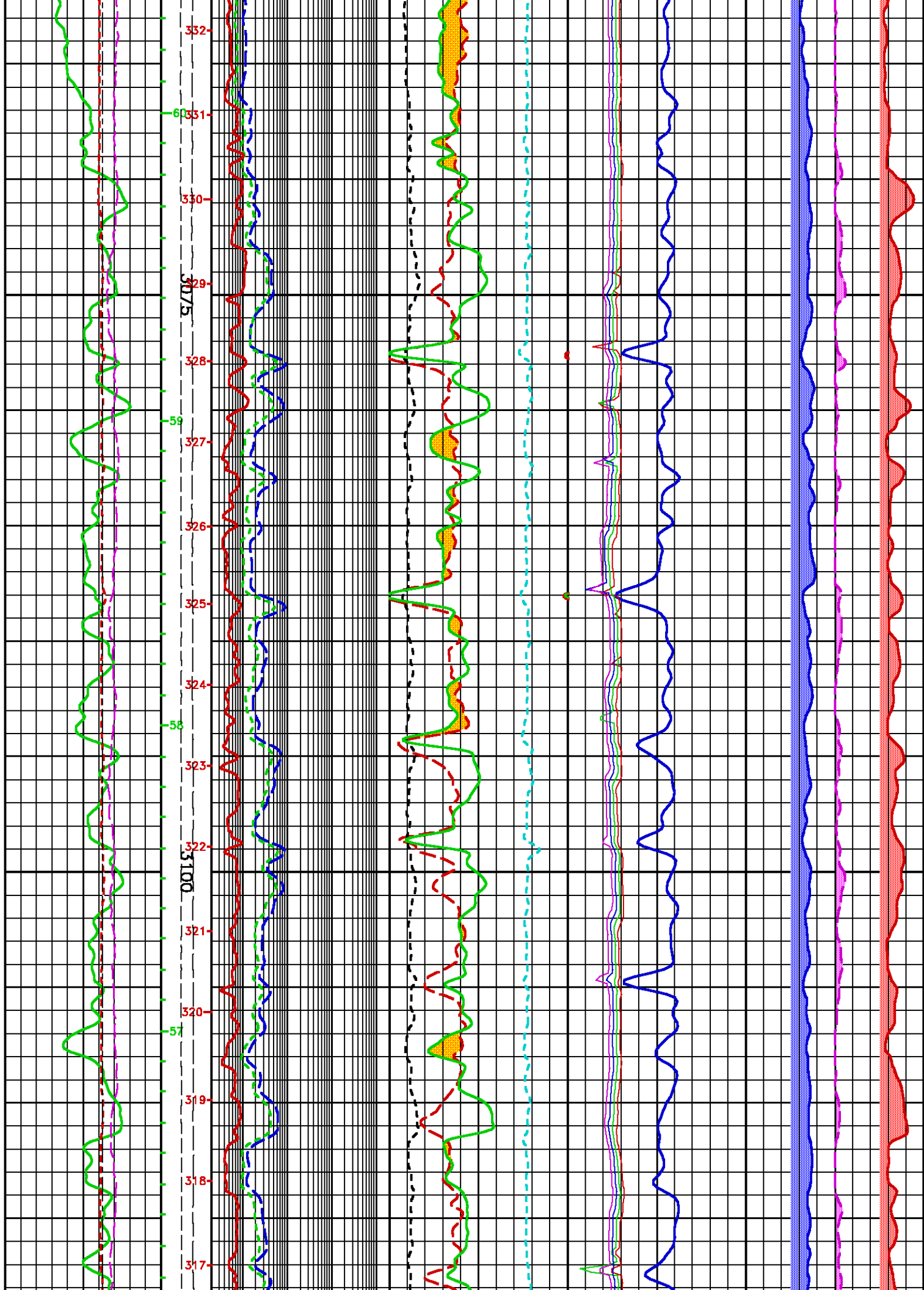


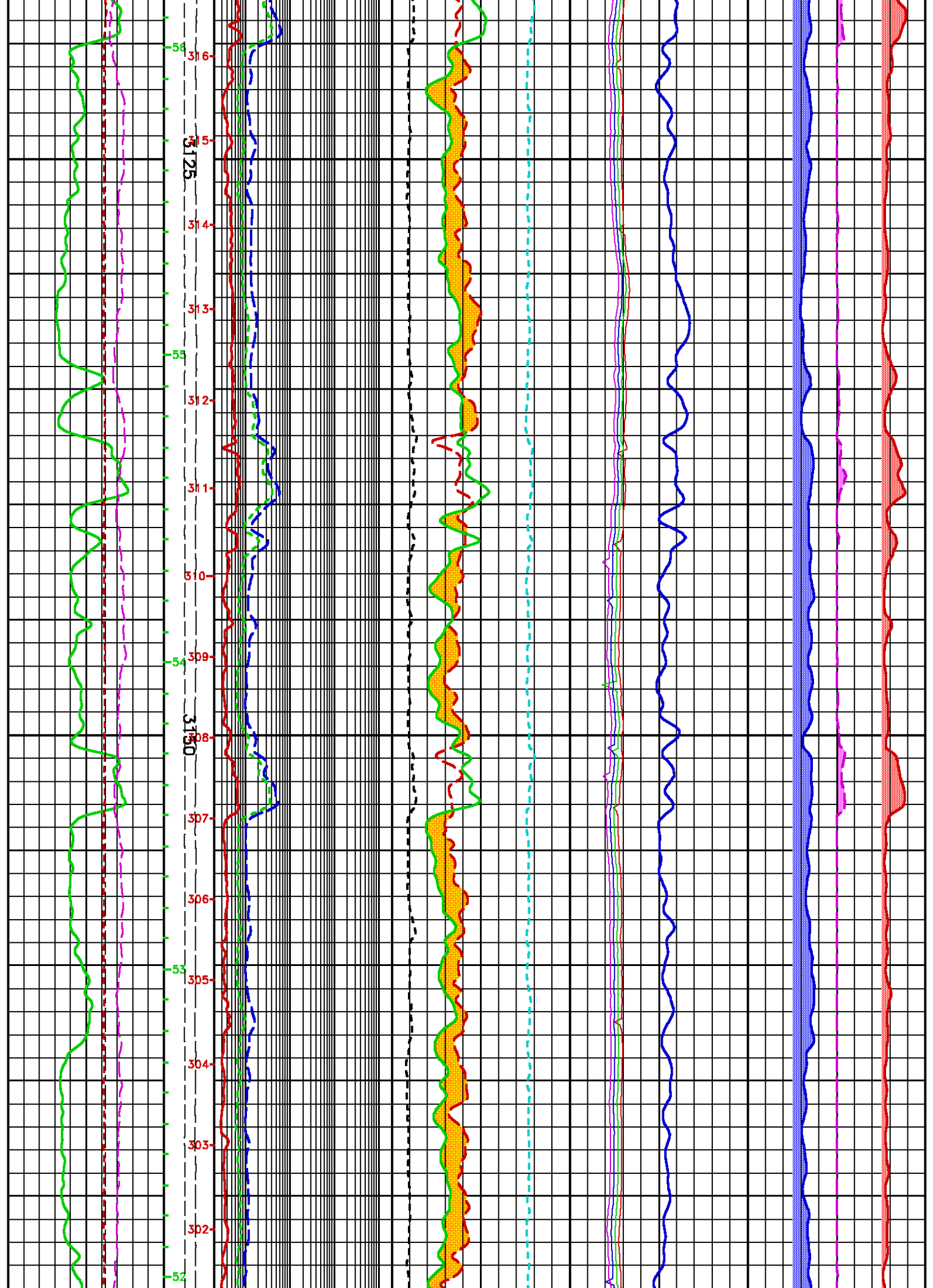


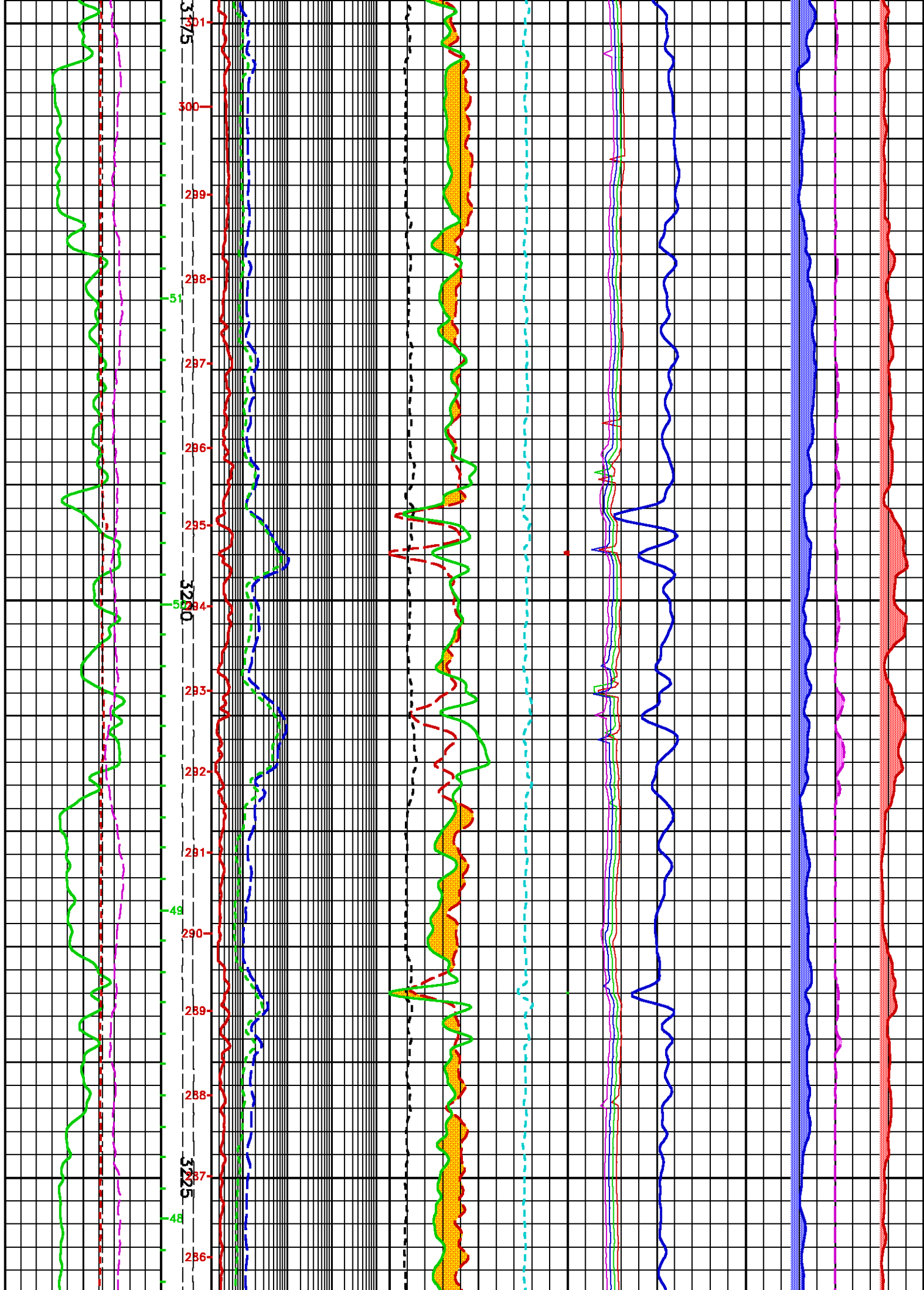


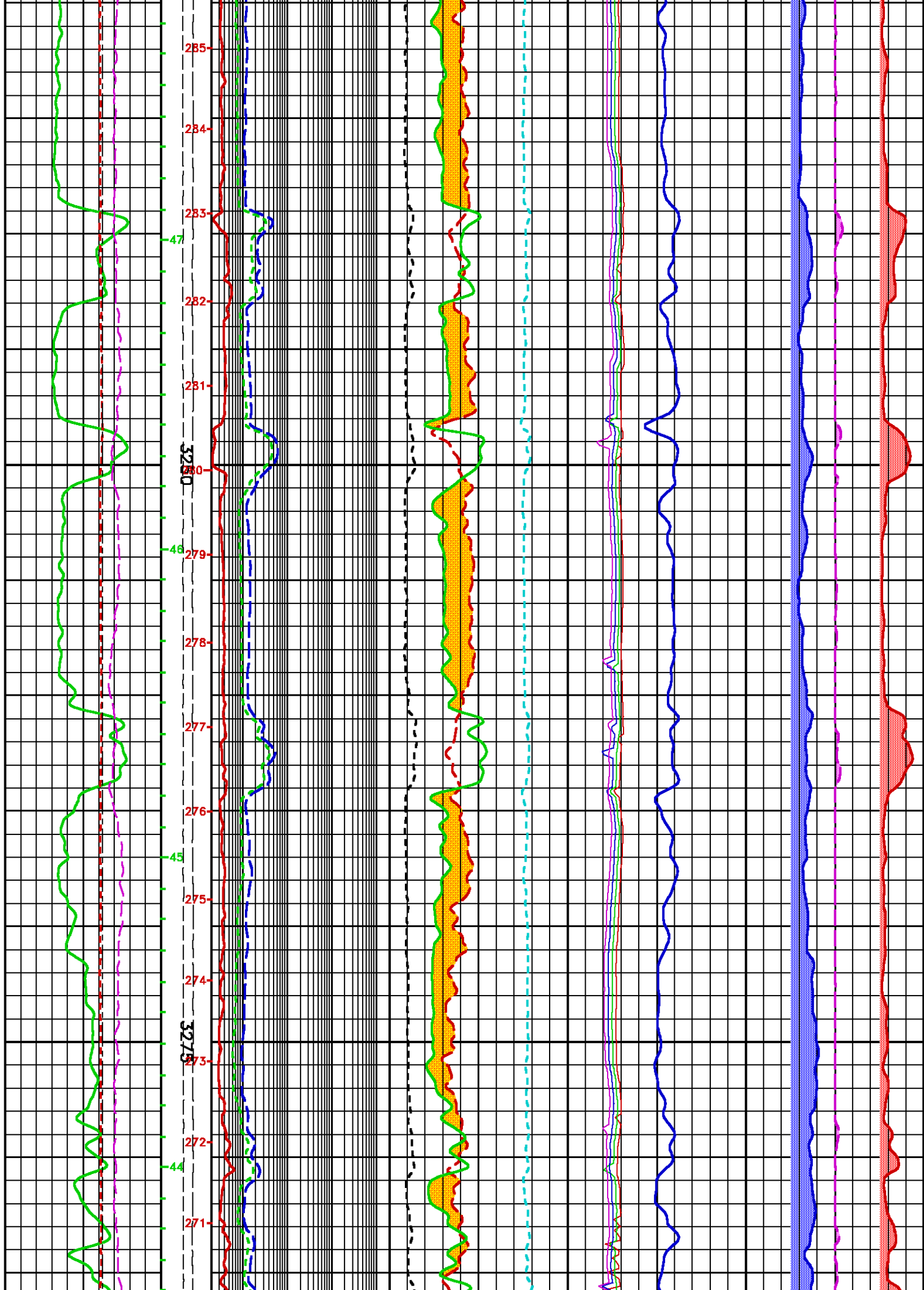


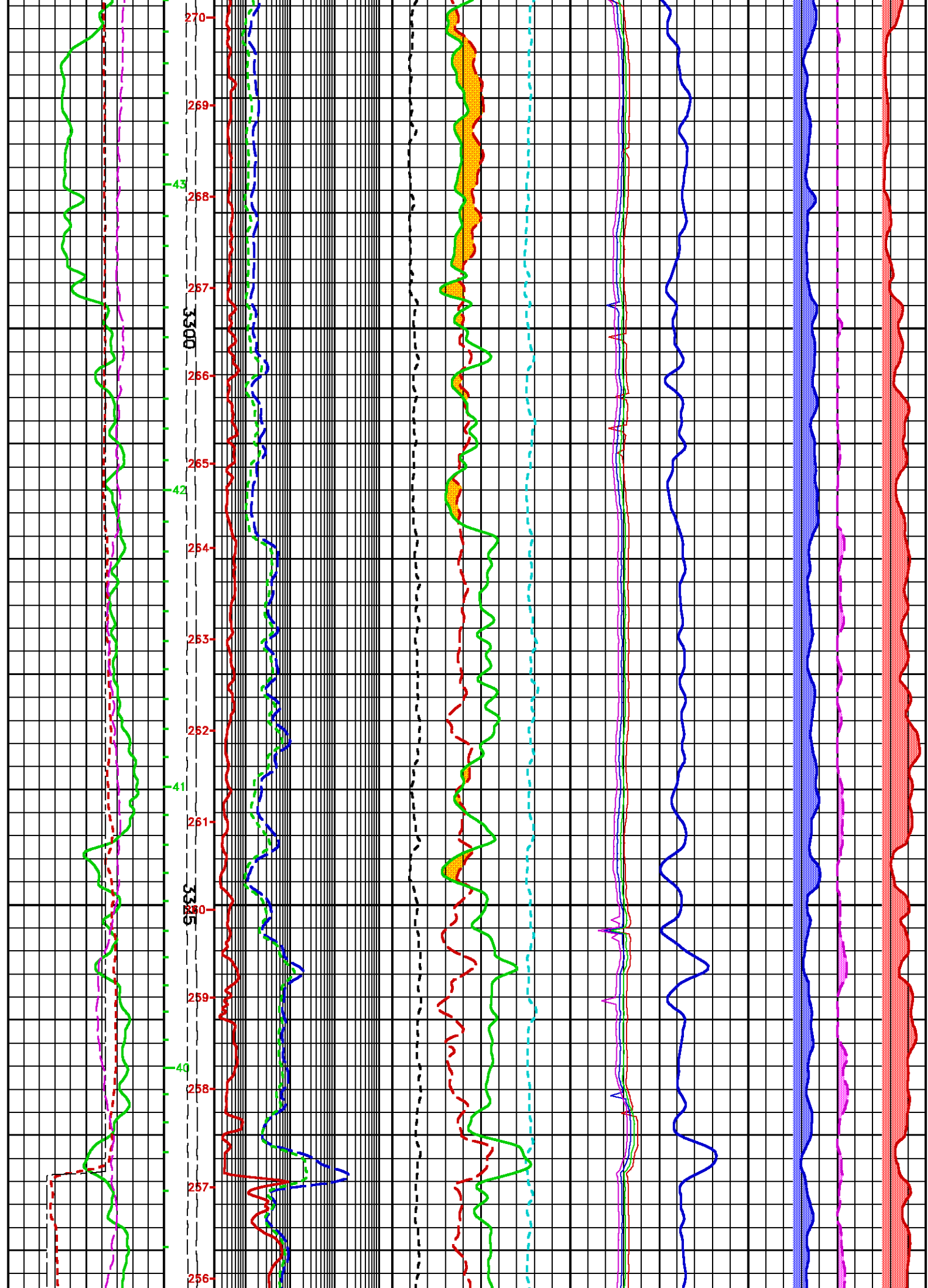


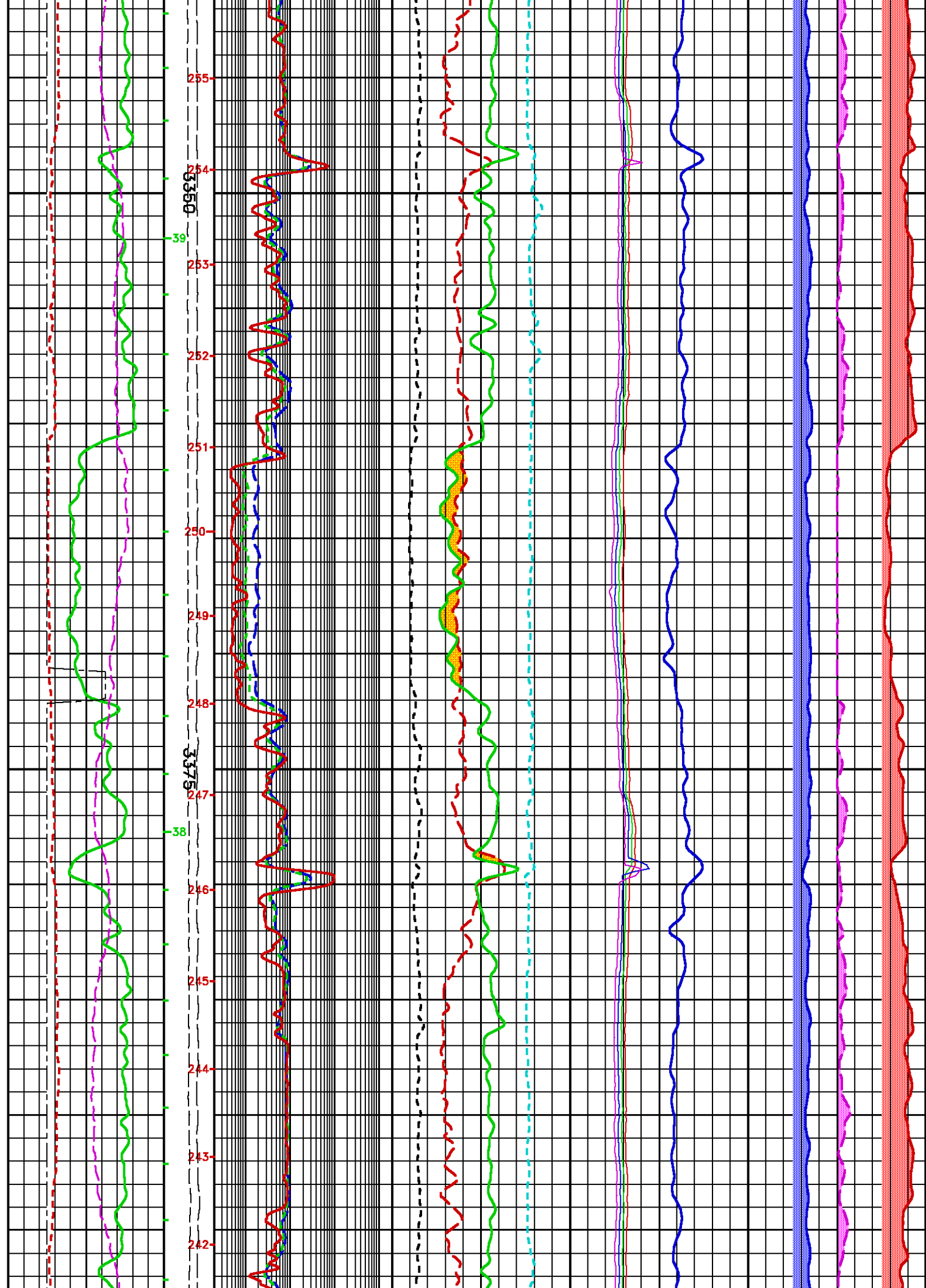


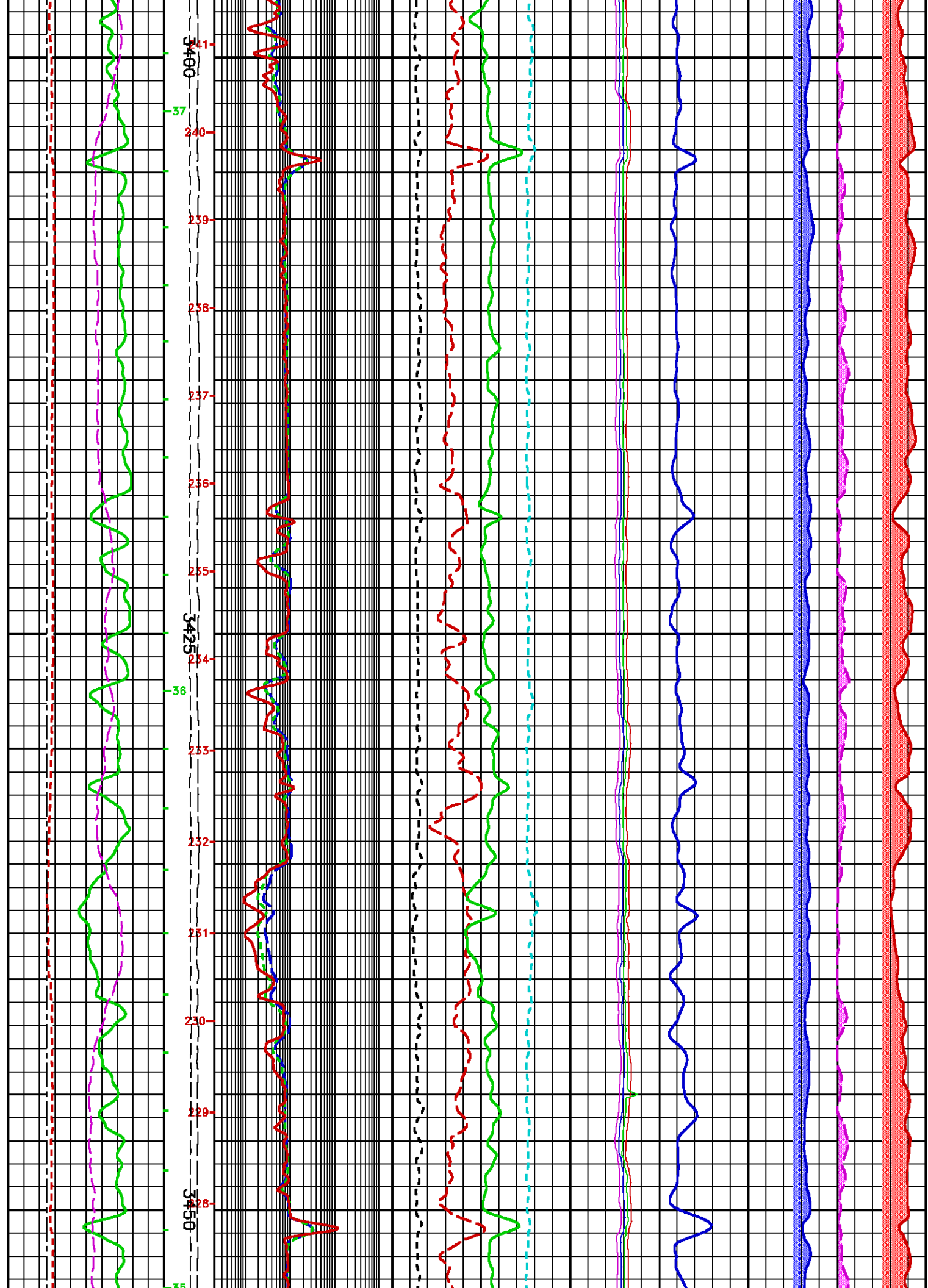


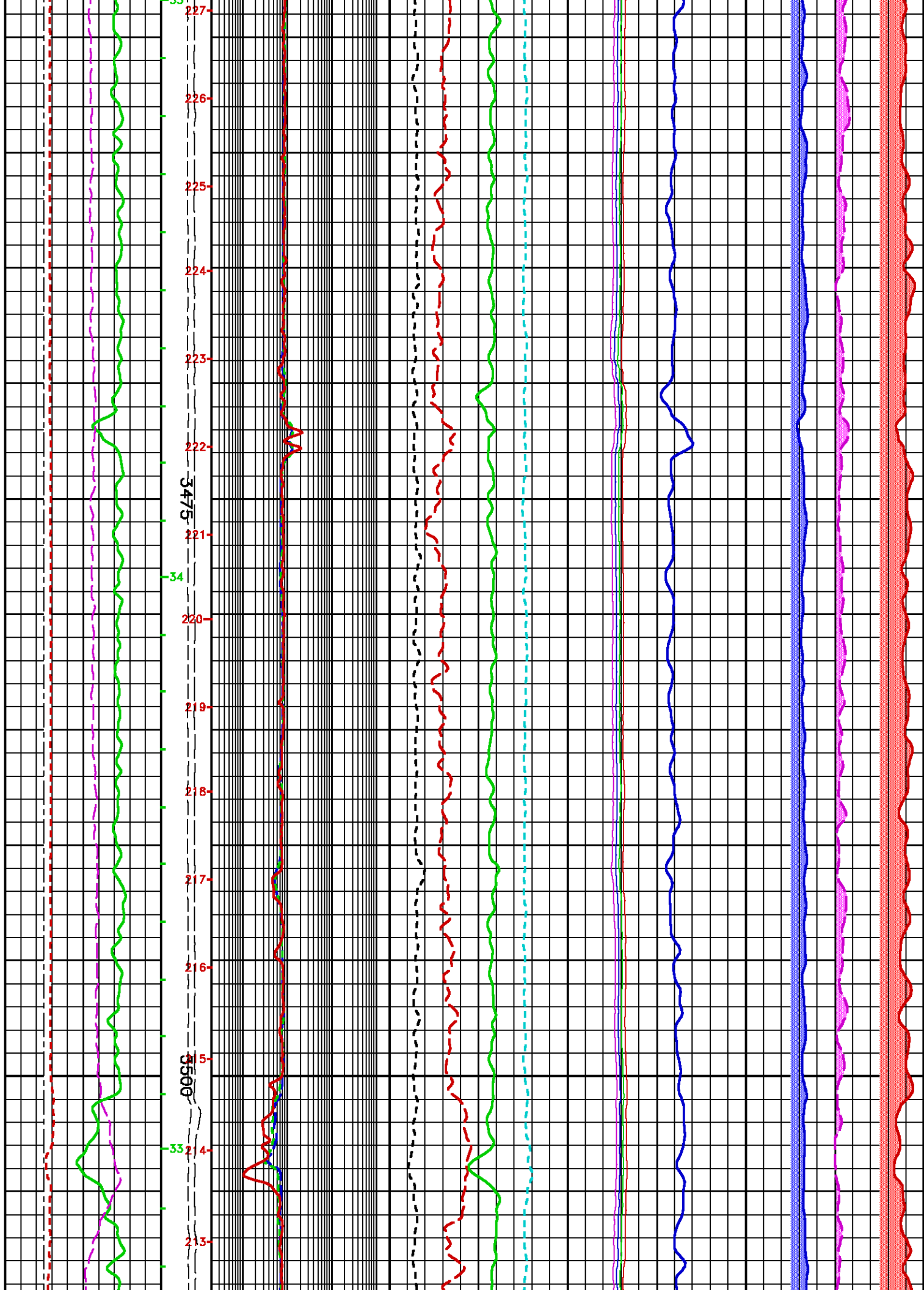


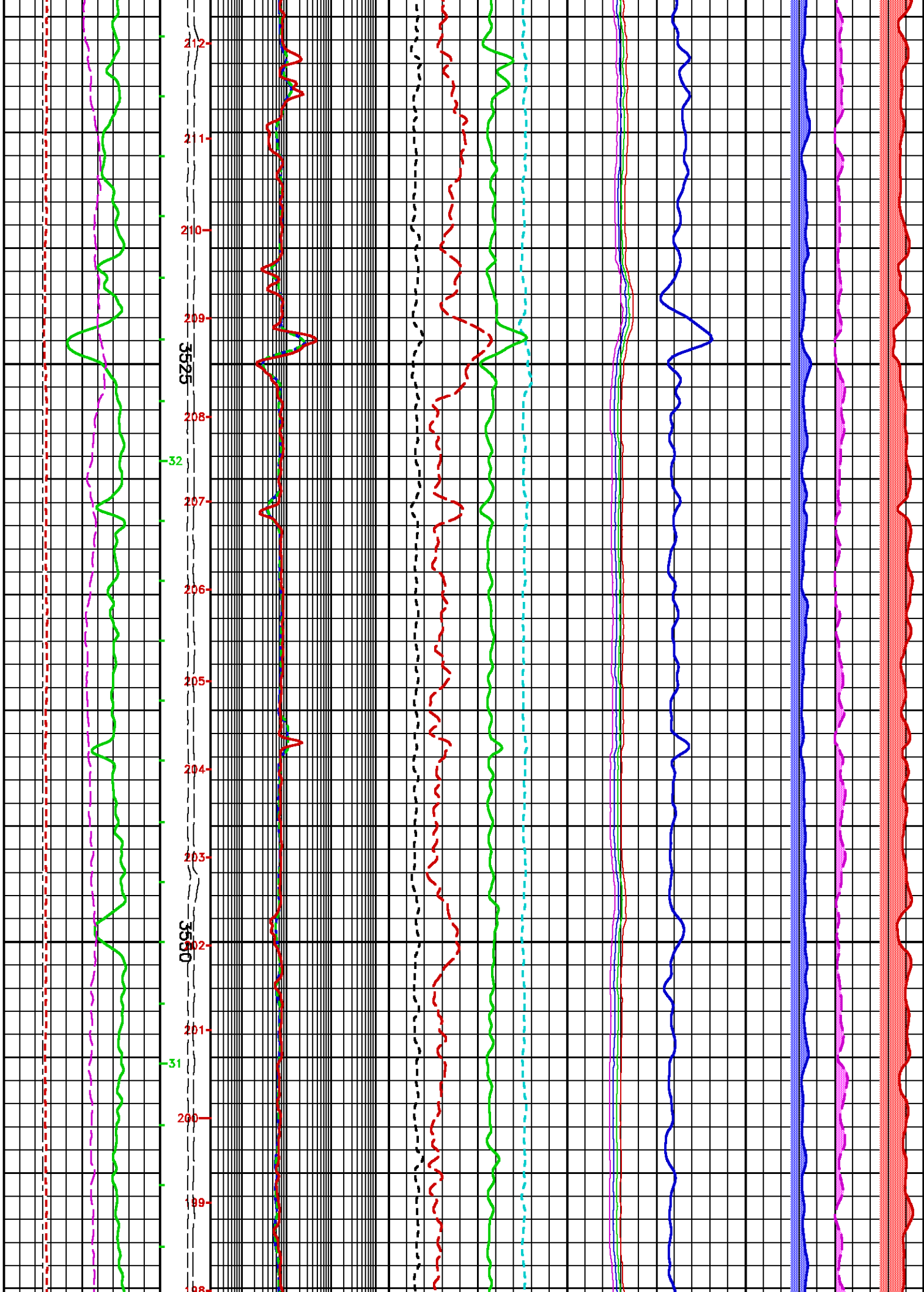


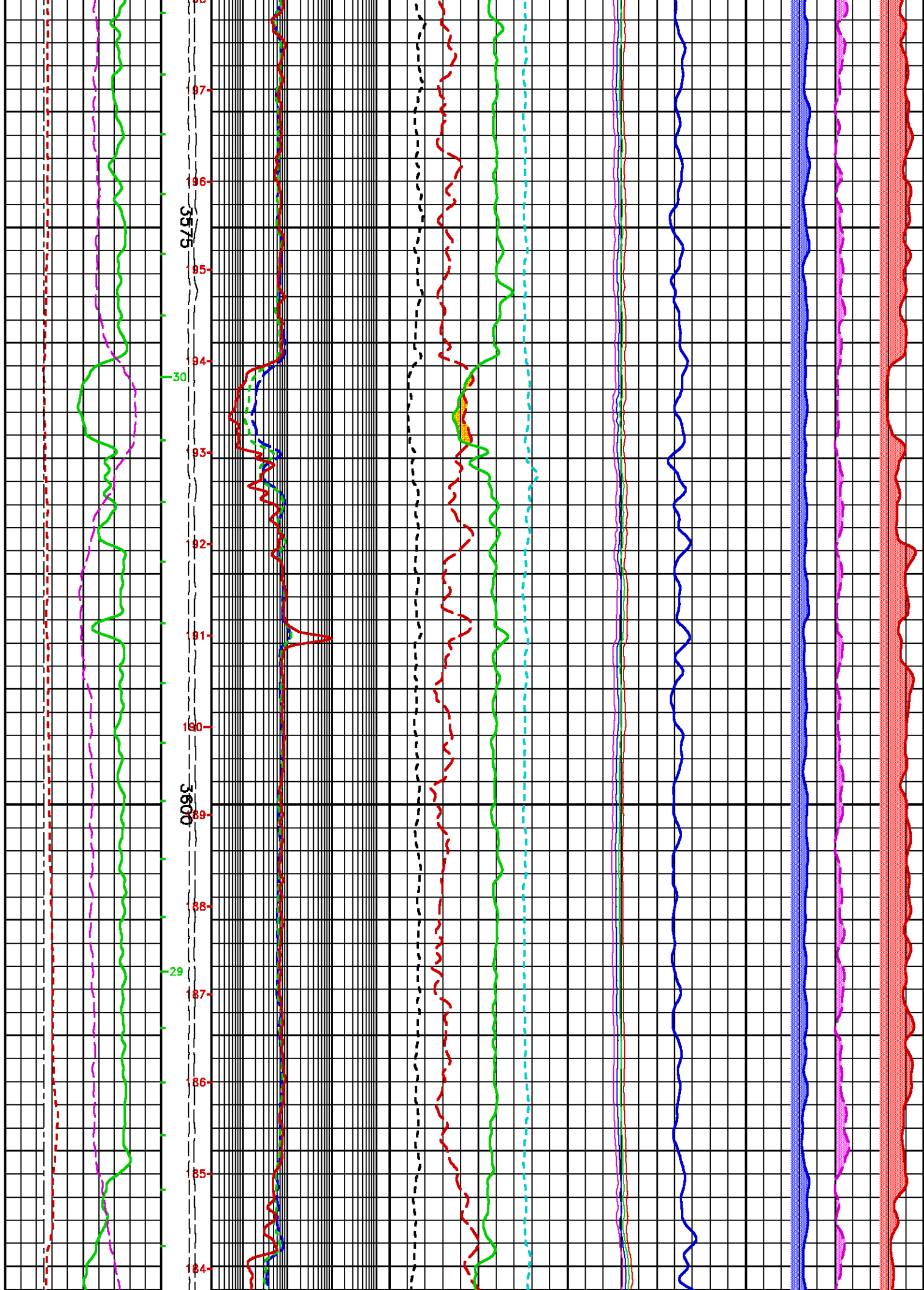


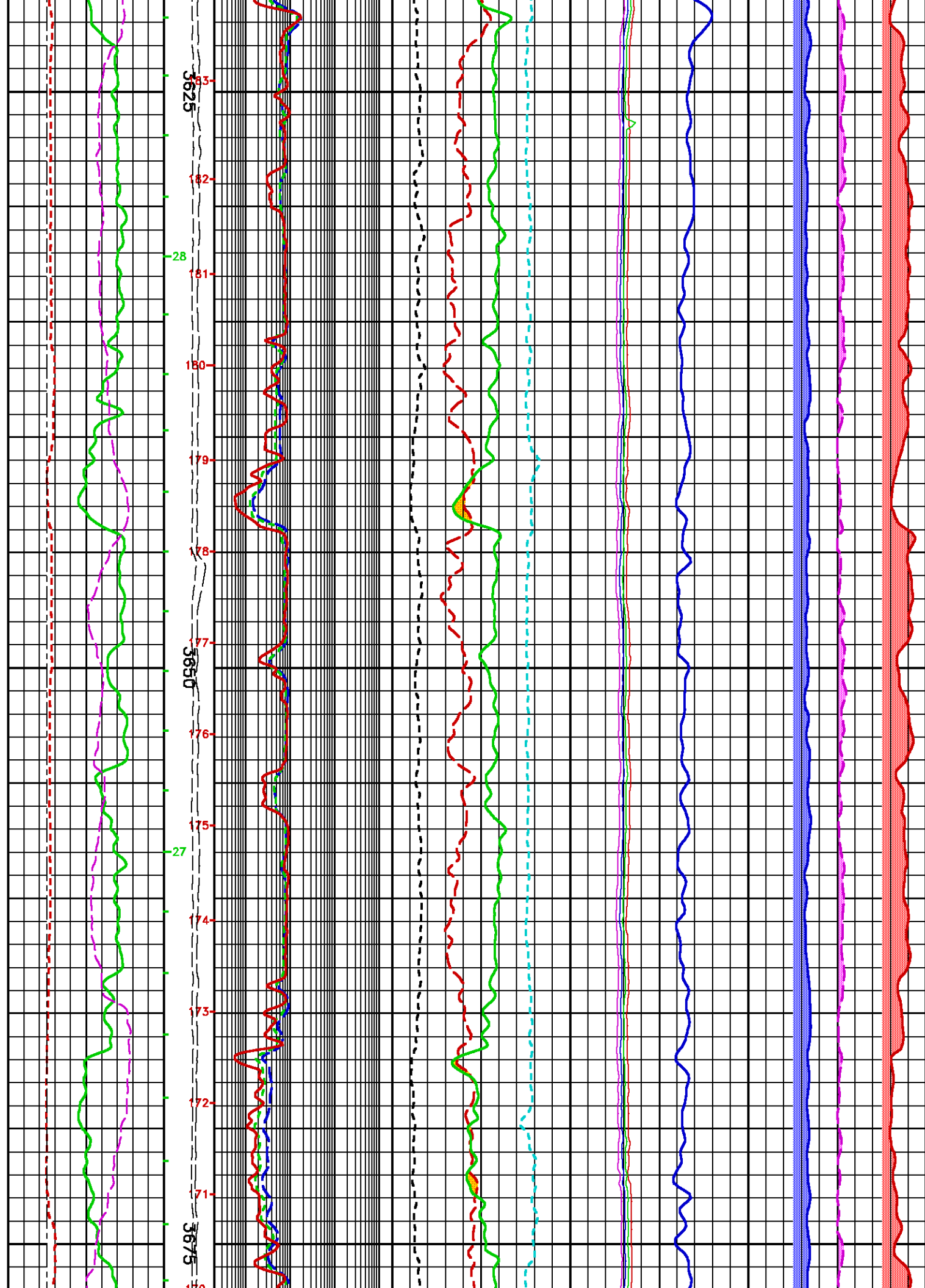


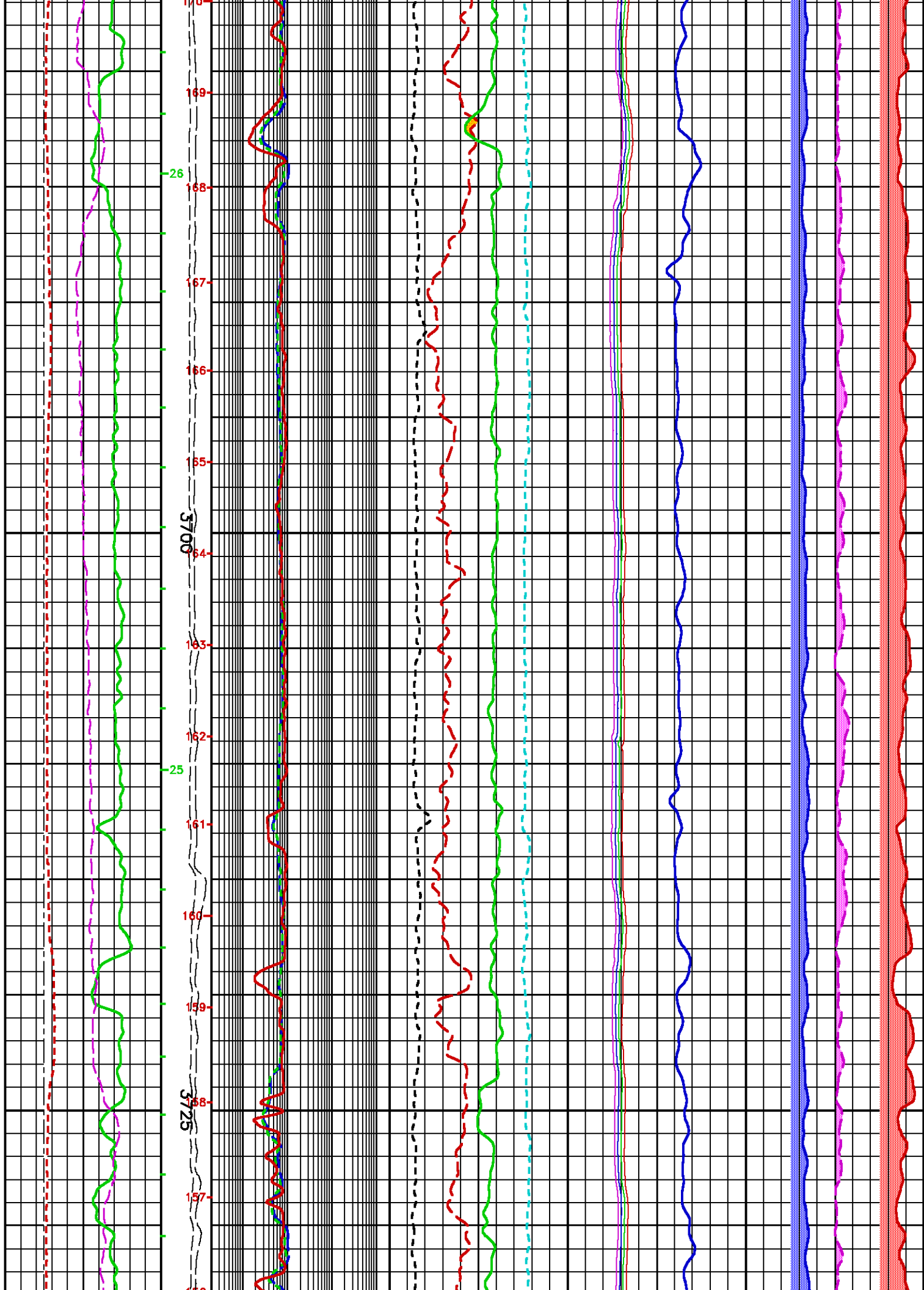


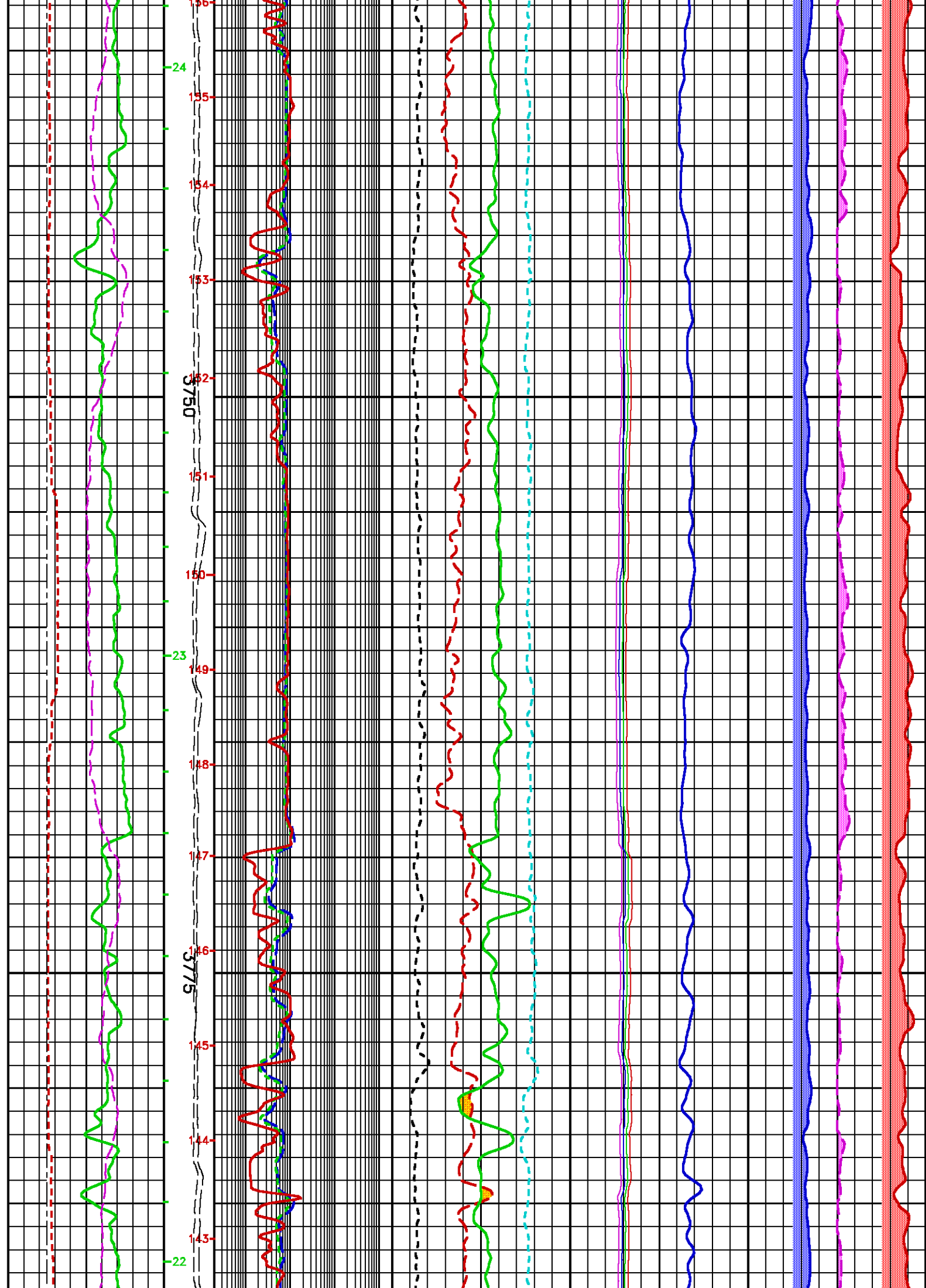


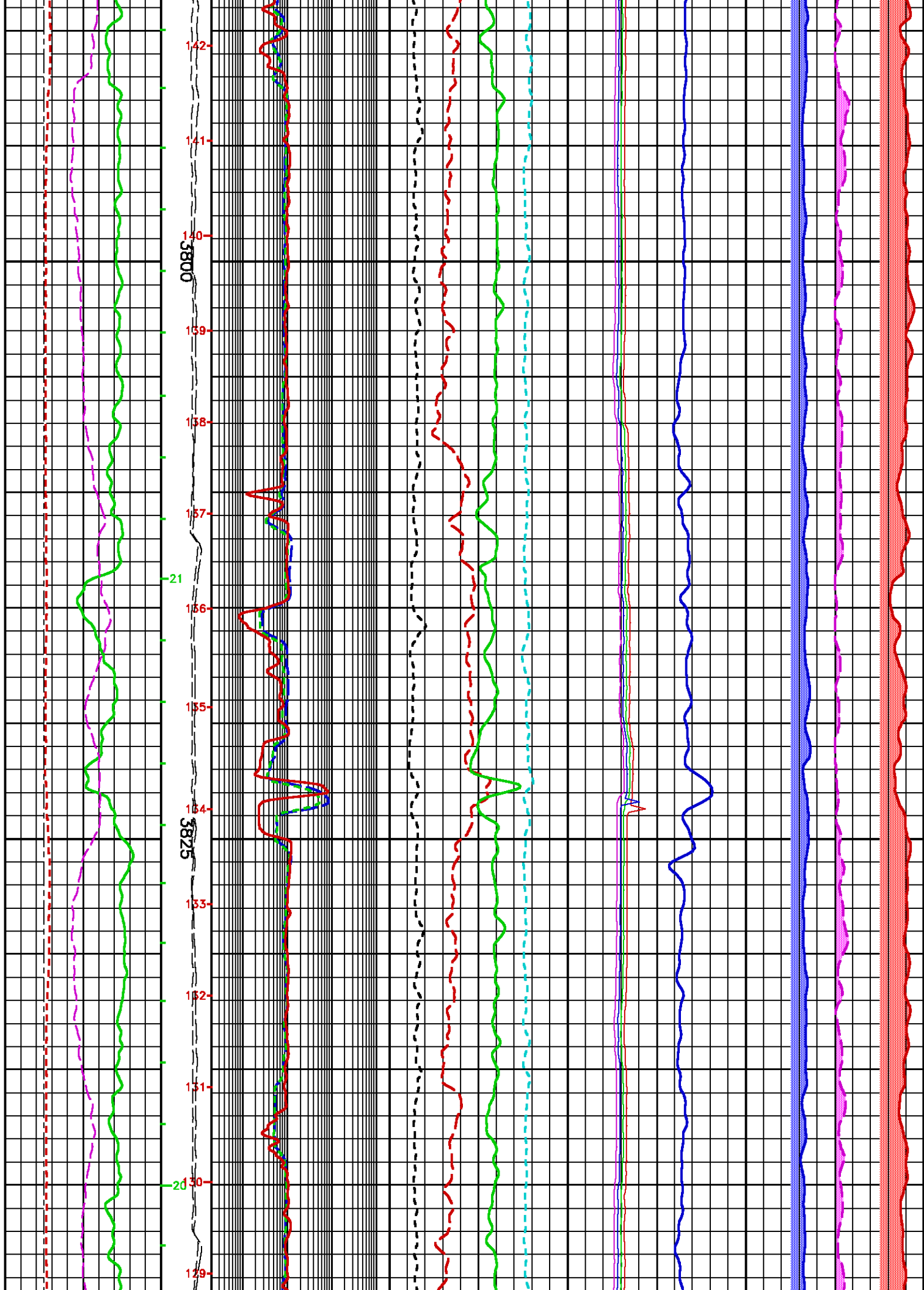


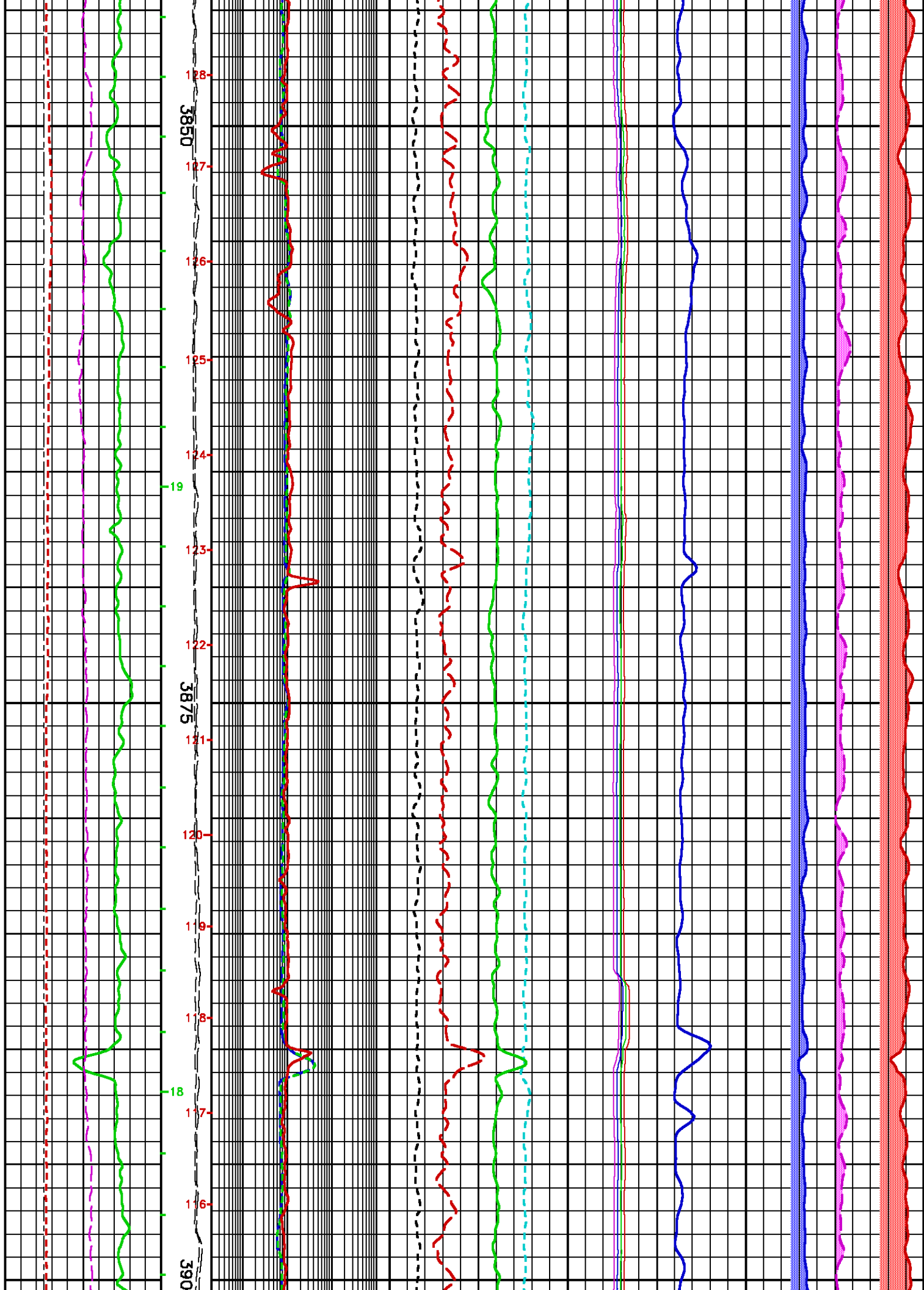


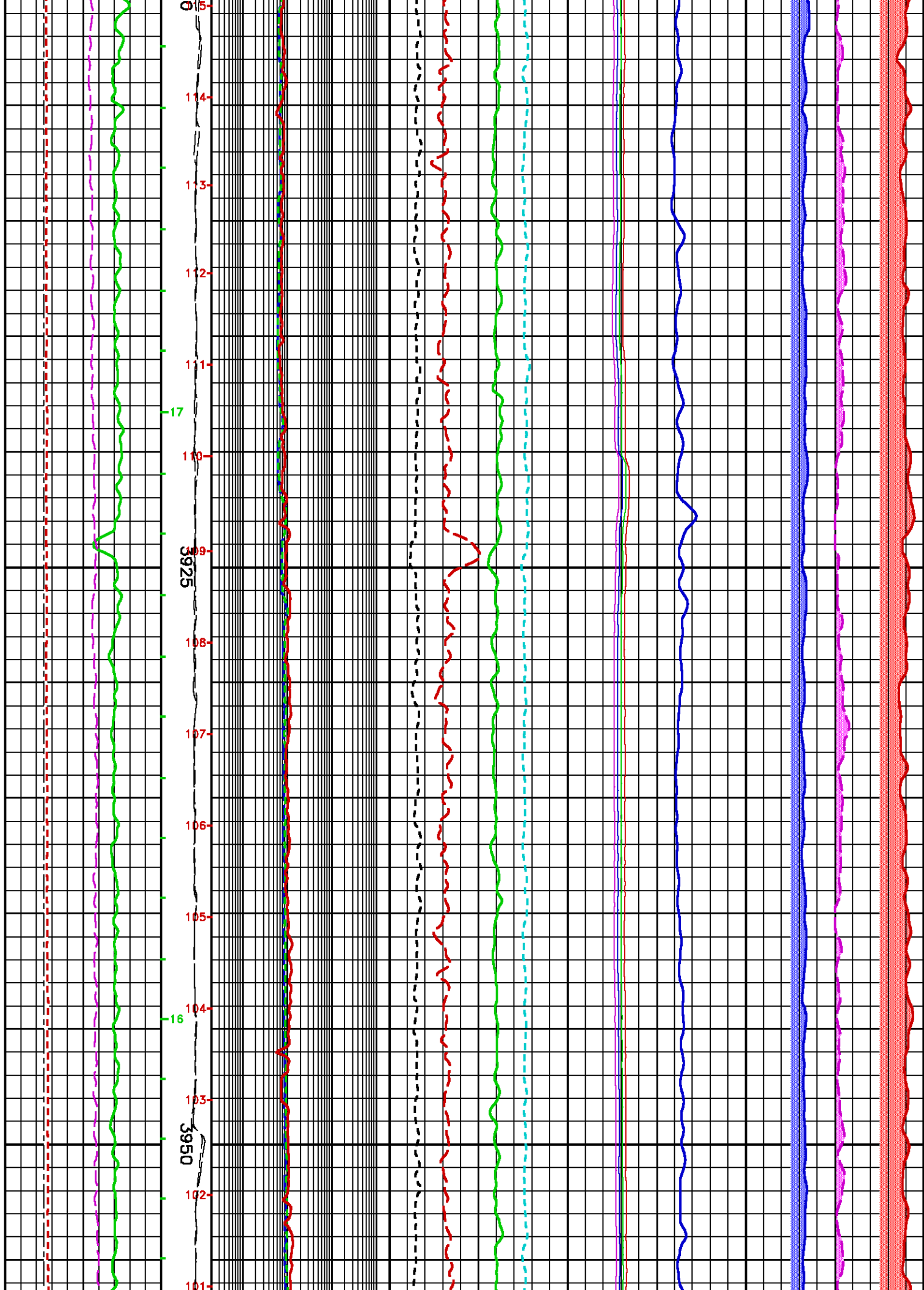


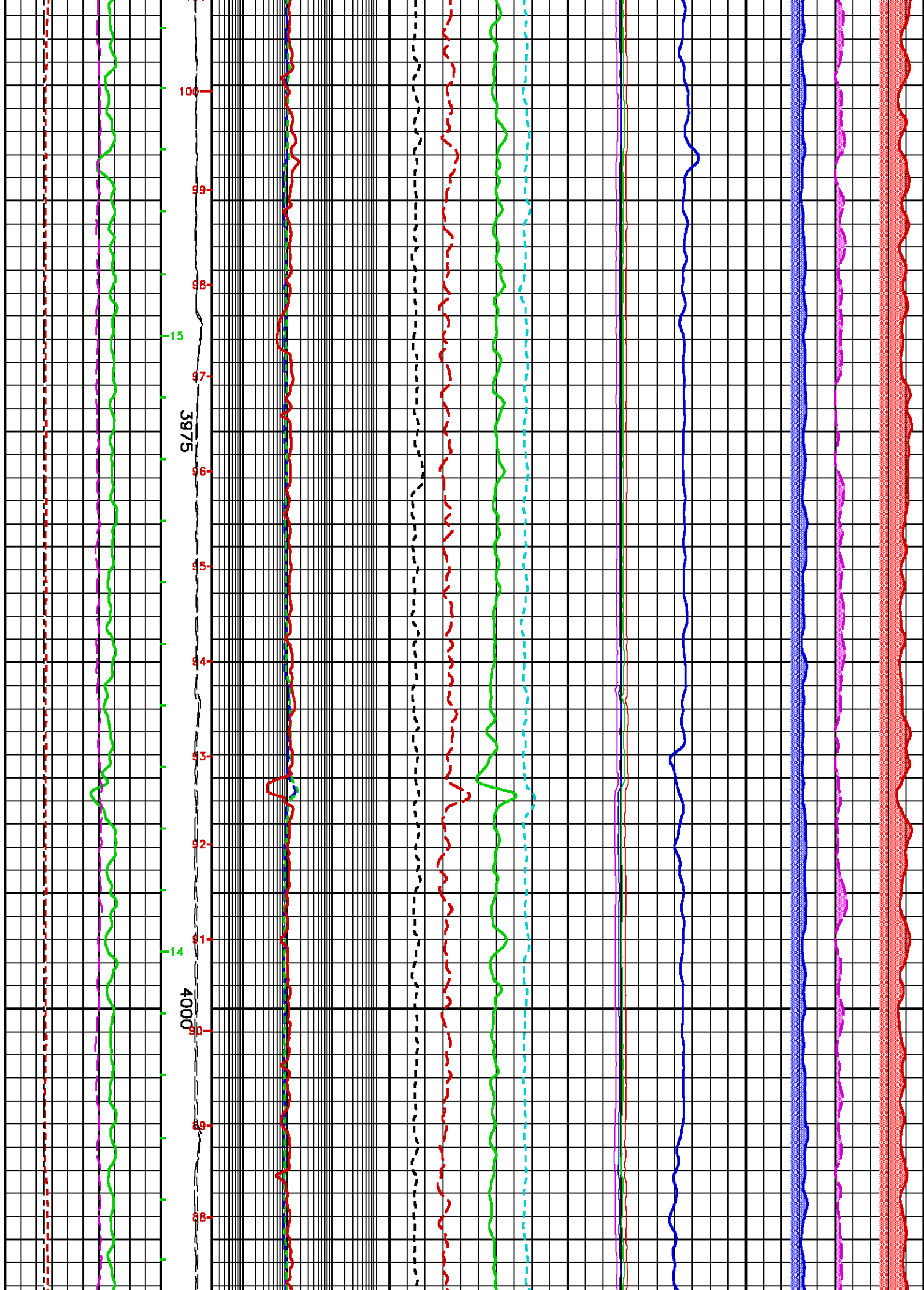


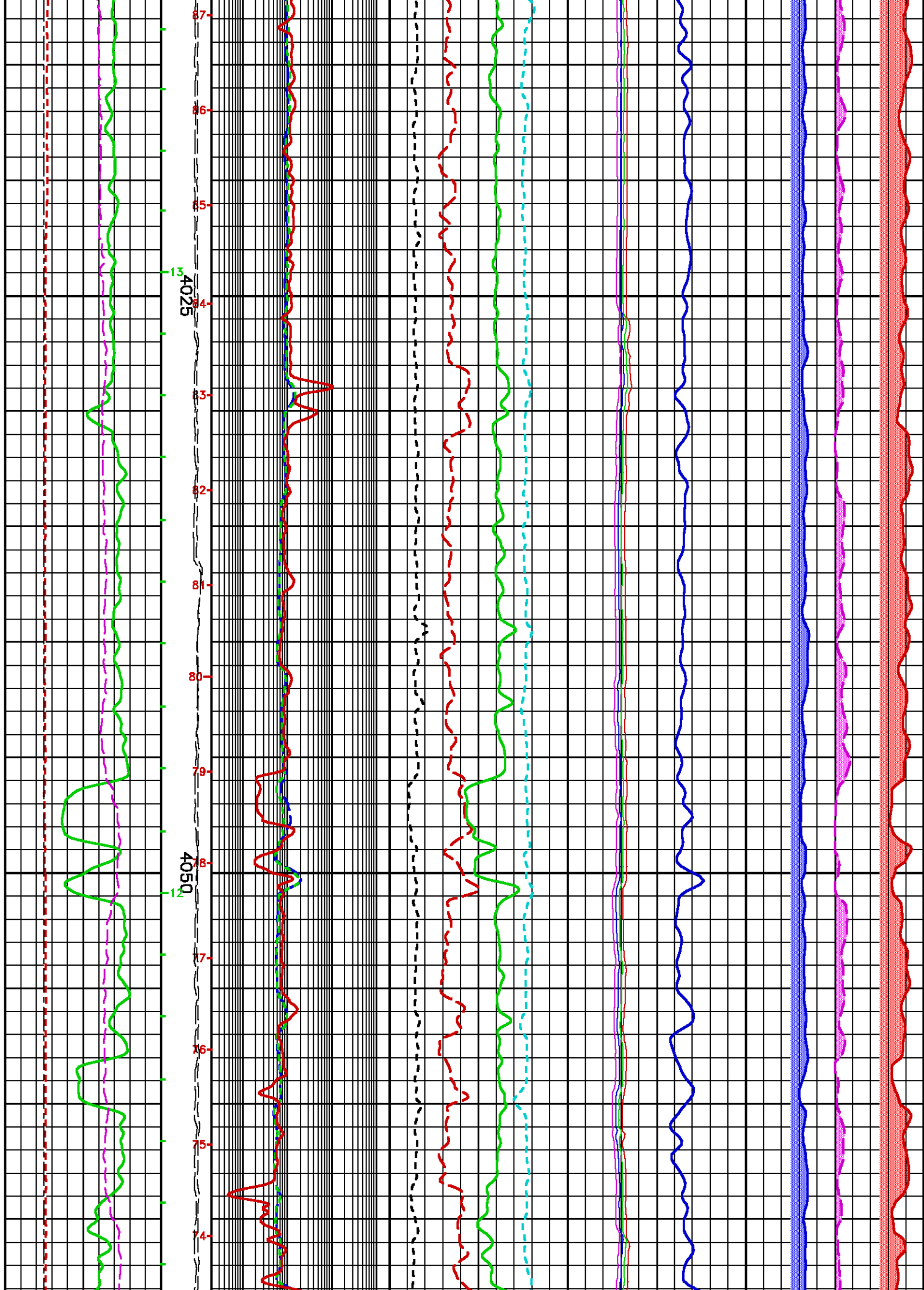


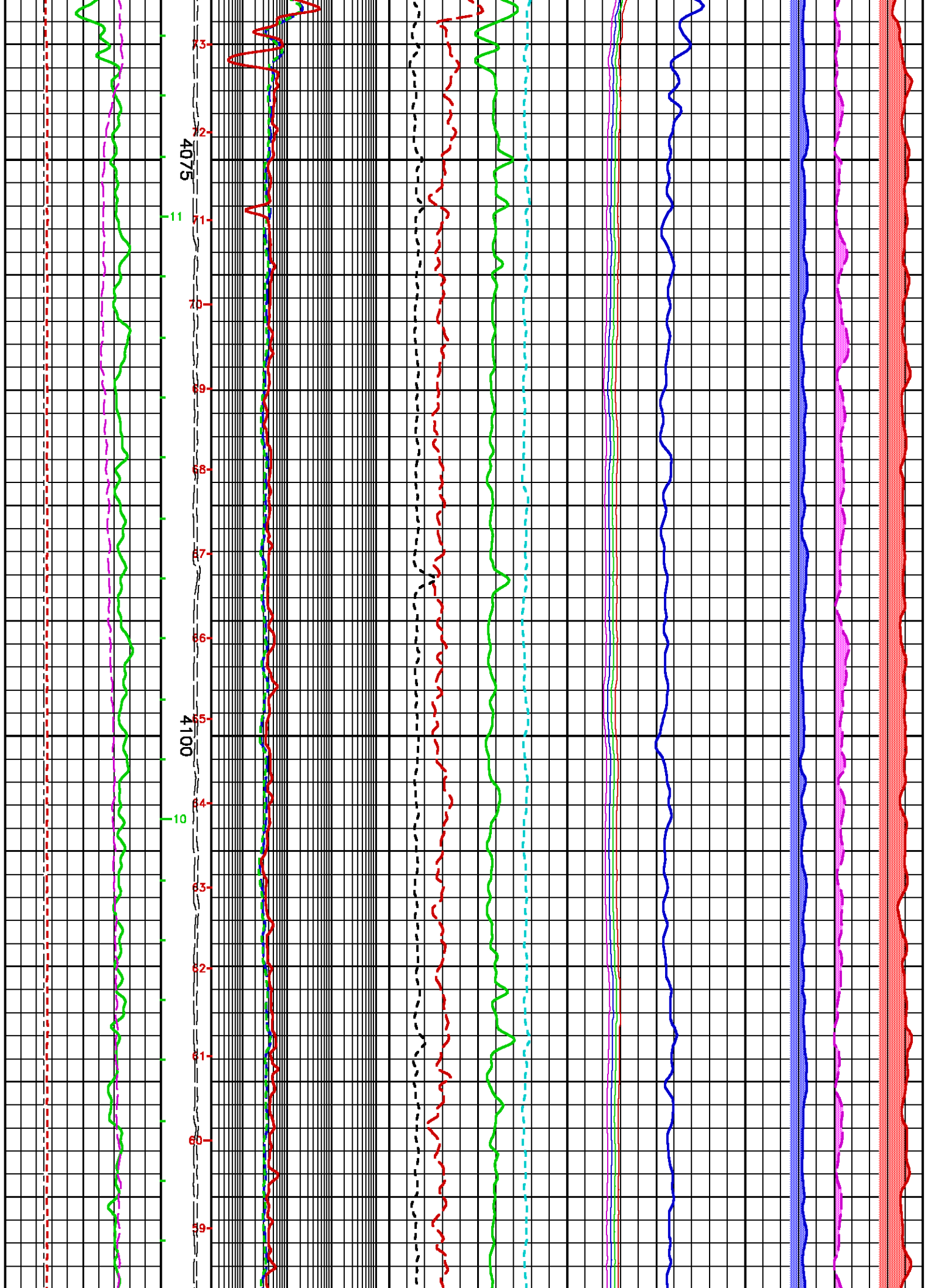


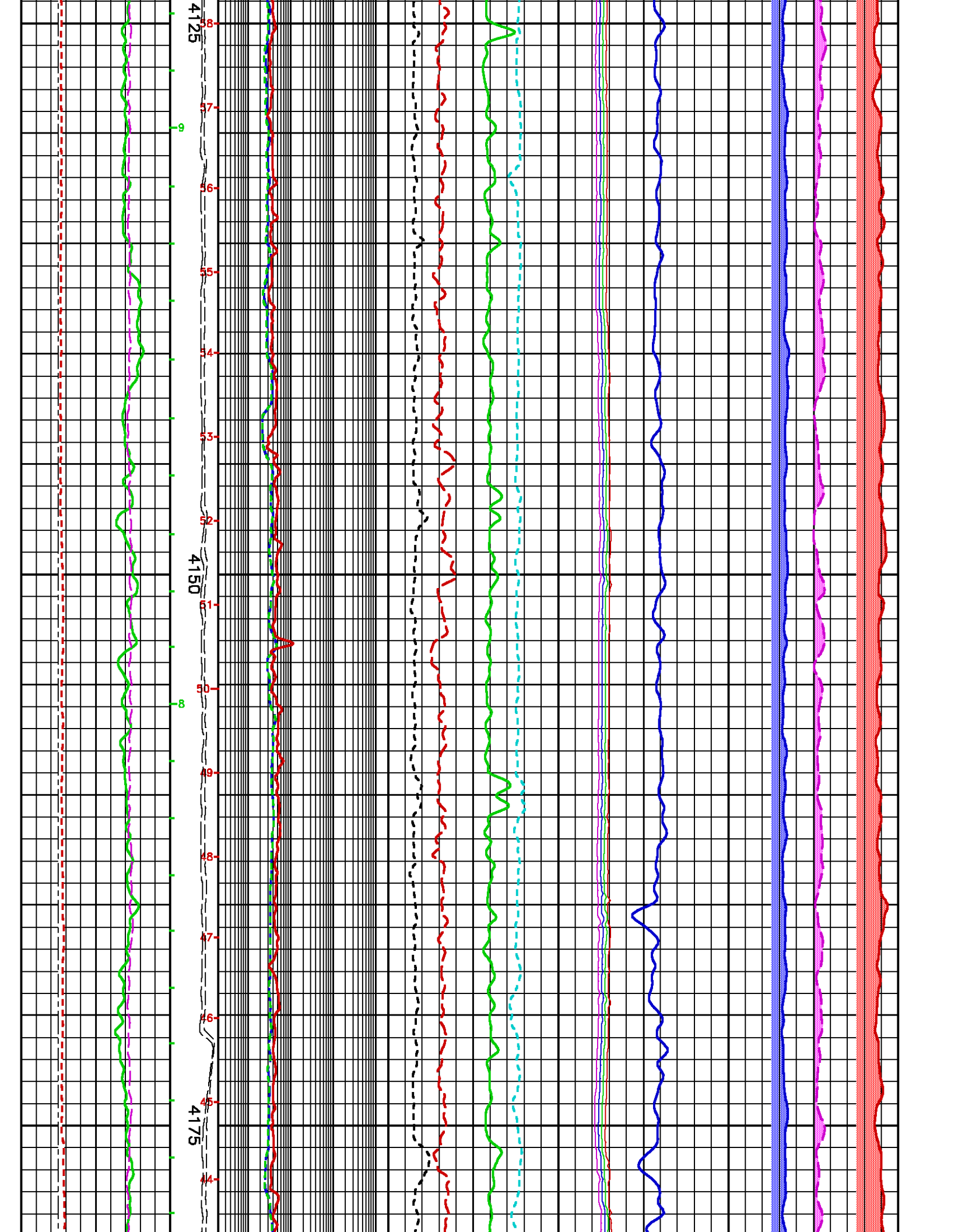


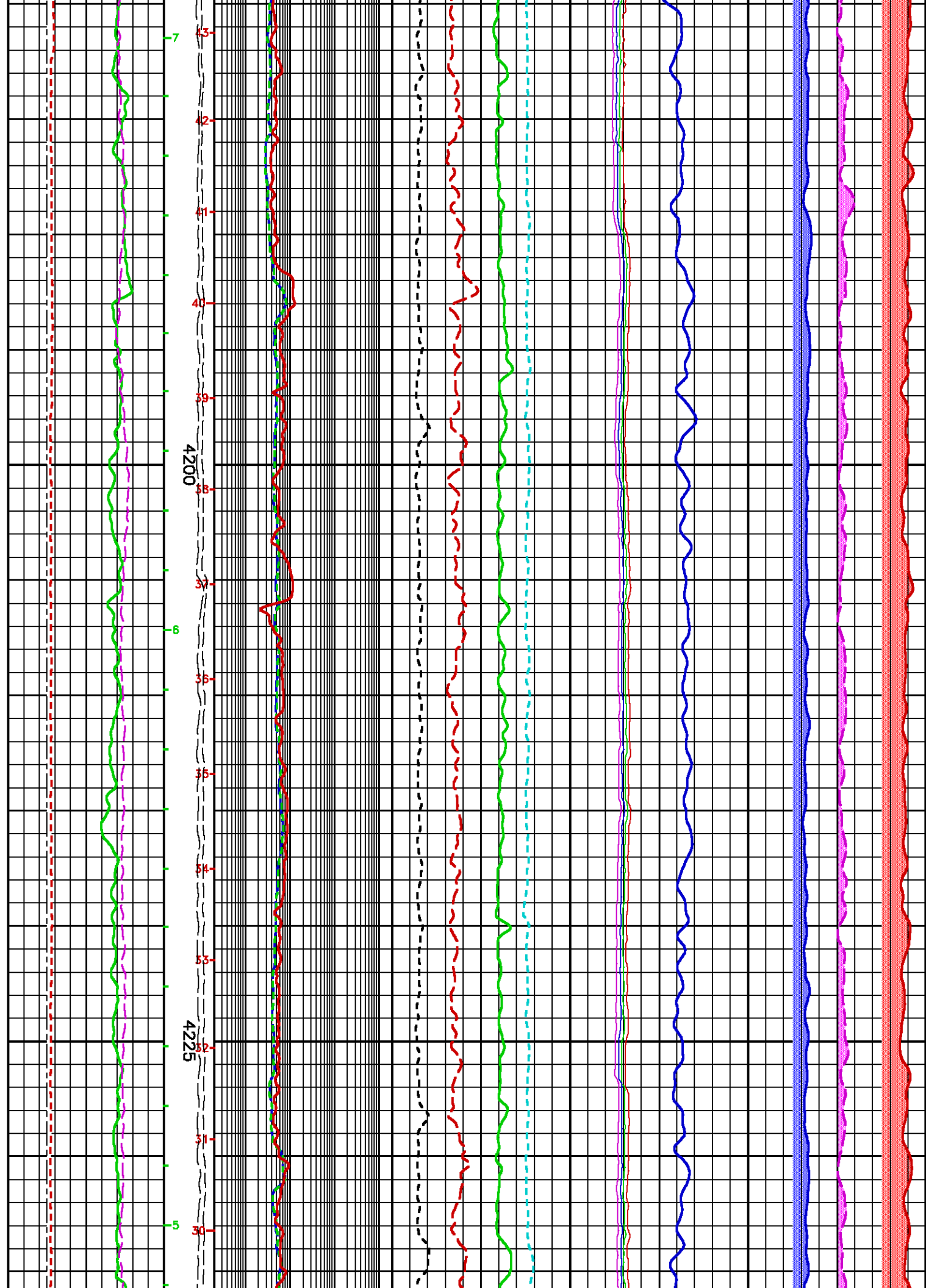


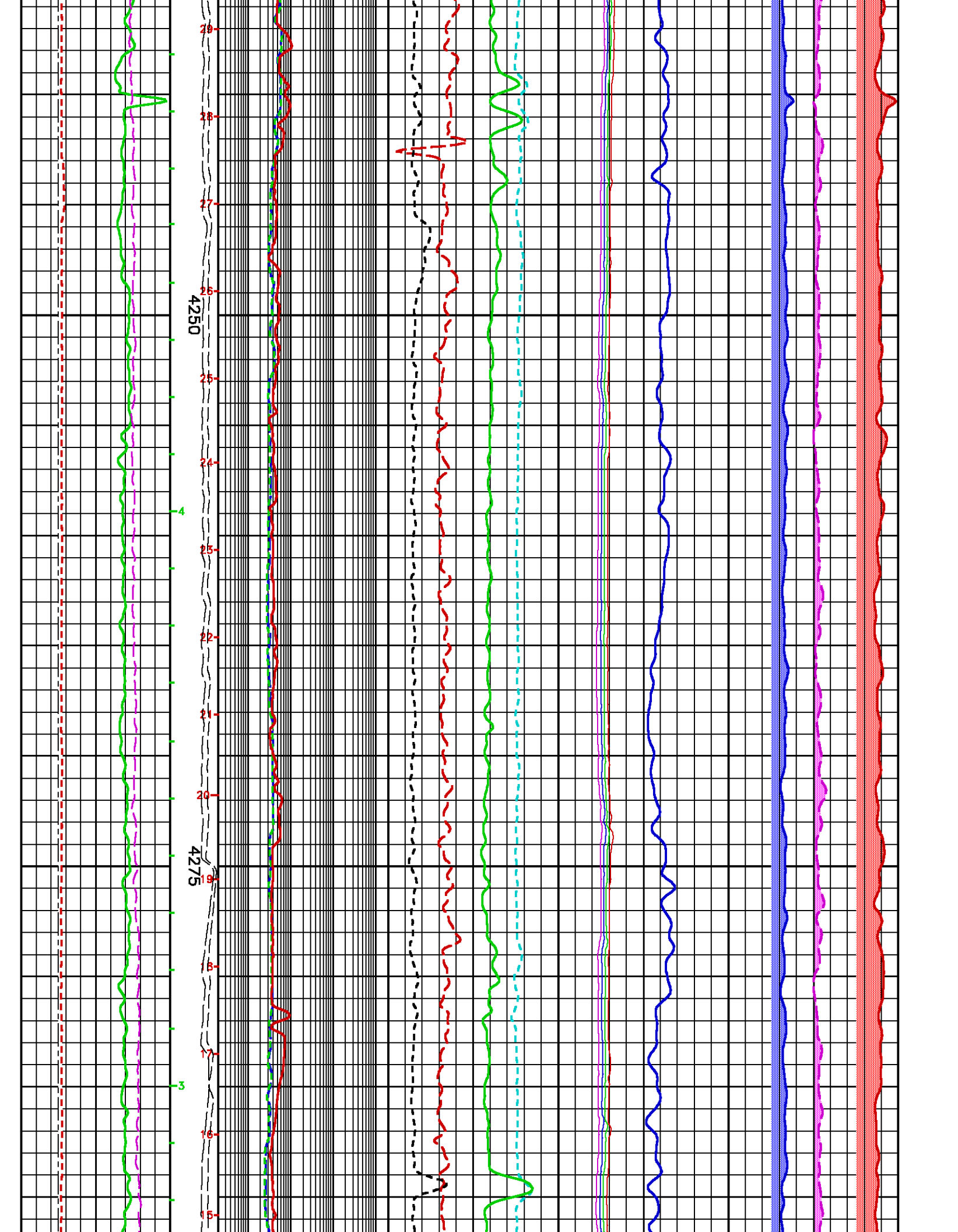


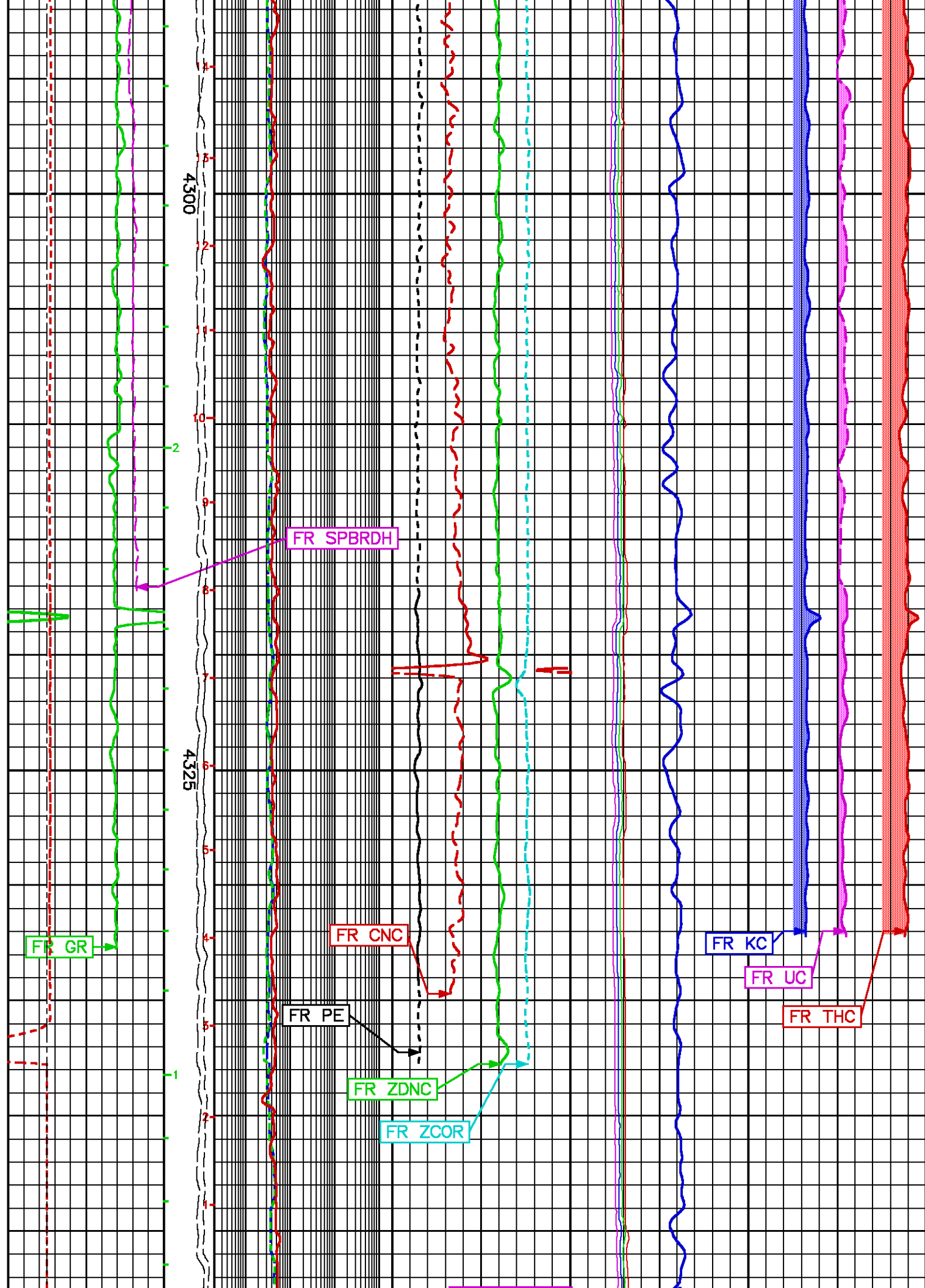


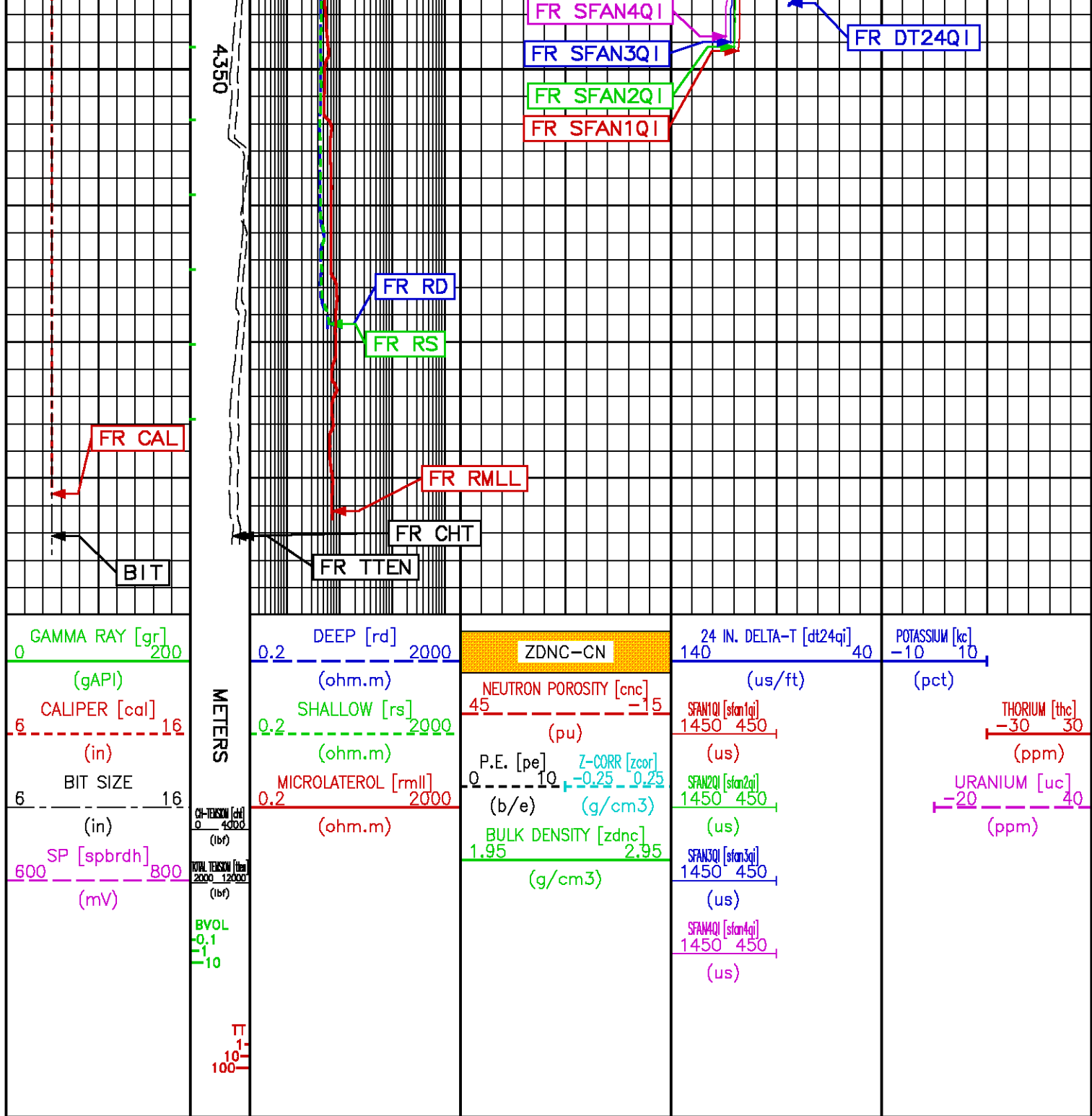












CALIBRATION / VERIFICATION SUMMARY

Source File: /data/madfish1/gslam.lp1

CHT PRIMARY CALIBRATION SUMMARY

TOOL #: 3981XA 10045149

DATE/TIME PERFORMED: Thu Dec 11 12:30:36 2008

UNIT #: 3988XA 008881

	Signal Low (raw)	Signal High (raw)	Scale Mult	Scale Add	Engr Low (lbf)	Engr High (lbf)
CHT	-214.09	749.11	2.60	255.67	-300.00	2200.00

GR PRIMARY CALIBRATION SUMMARY

TOOL #: 1329XA 10399813 DATE/TIME PERFORMED: Mon Dec 8 12:57:50 2008

UNIT #: 3988XA 008881 CALB JIG #: 4702NK BA-862

	BACKGROUND (cts/s)	CALBRTR ON (cts/s)	CR DIFF (cts/s)	MULT	BACKGROUND (gAPI)	CALBRTR ON (gAPI)	CALBRTR (gAPI)
GR	82.69	1005.53	922.8 850.0 960.0	0.163	13.44	163.44	150

GR PRIMARY VERIFICATION SUMMARY

TOOL #: 1329XA 10399813 DATE/TIME PERFORMED: Mon Dec 8 13:05:19 2008

UNIT #: 3988XA 008881 VERI JIG #: 4702NK BA-862

	BACKGROUND (cts/s)	CALBRTR ON (cts/s)	MULT	BACKGROUND (gAPI)	CALBRTR ON (gAPI)	DIFF. (gAPI)
GR	83.42	1004.22	0.163	13.56	163.23	149.67 140.00 160.00

GR BEFORE LOG VERIFICATION SUMMARY

TOOL #: 1329XA 10399813 DATE/TIME PERFORMED: Mon Dec 8 13:09:58 2008 DAYS SINCE CAL: 0

UNIT #: 3988XA 008881 VERI JIG #: 4702NK BA-862

	BACKGROUND (cts/s)	CALBRTR ON (cts/s)	MULT	BACKGROUND (gAPI)	CALBRTR ON (gAPI)	DIFF. (gAPI)
GR	78.04	1006.27	0.163	12.69	163.56	150.87 139.67 159.67

GR AFTER LOG VERIFICATION SUMMARY

TOOL #: 1329XA 10399813 DATE/TIME PERFORMED: Fri Dec 12 00:11:27 2008 DAYS SINCE CAL: 3

UNIT #: 3988XA 008881 VERI JIG #: 4702NK BA-862

	BACKGROUND (cts/s)	CALBRTR ON (cts/s)	MULT	BACKGROUND (gAPI)	CALBRTR ON (gAPI)	DIFF. (gAPI)
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	(cts/s)	(cts/s)	(gAPI)	(gAPI)	(gAPI)
GR	120.89	1059.47	0.163	19.65	172.21
					152.56
					140.87 160.87

SL II PRIMARY CALIBRATION SUMMARY

TOOL #: 1329XA 10399813

DATE/TIME PERFORMED: Mon Dec 8 13:00:52 2008

UNIT #: 3988XA 008881

CALIBRATOR ID: 4702NA BA-862

	Bkgnd (cts/s)	Cal ON (cts/s)	Mult (gAPI/(cts/s))	Bkgnd (gAPI)	Cal ON (gAPI)	Cal Value (gAPI)
GR-SL (.06-3.5)	74.95	995.57	0.163	12.21	162.21	150

	Std Rate (cts/s)	Meas Rate (cts/s)	Tool Norm	Std Mult	Log Mult	App Con (pct ppm)
E (.15-3.0)	748	773.1	0.968			
			0.900 1.100			

K				0.01169	0.01131	8.700
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U				0.02668	0.02581	20.000
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TH				0.07158	0.06926	53.500
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	Mult chnl/MeV	Add chnls	Chi Sqr qsa	QCAL	GAIN	QPKS
SPECTRUM	71.013	1.457	0.288	0.996	2989	5
				0.980 1.020		

	P1 .352 MeV	P2 .609 MeV	P3 1.120 MeV	P4 1.765 MeV	P5 2.204 MeV
Std Pk	25.80	44.20	81.00	127.40	159.00
Meas Pk	26.01	44.85	81.40	127.14	157.52
	22.80 28.80	40.20 48.20	76.00 86.00	121.40 133.40	152.00 166.00
Fit Pk	26.45	44.70	80.99	126.79	157.97

SL II PRIMARY VERIFICATION SUMMARY

TOOL #: 1329XA 10399813

DATE/TIME PERFORMED: Mon Dec 8 13:05:25 2008

UNIT #: 3988XA 008881

CALIBRATOR ID: 4702NA BA-862

	Bkgnd (cts/s)	Cal ON (cts/s)	Mult (gAPI/(cts/s))	Bkgnd (gAPI)	Cal ON (gAPI)	Cal Value (gAPI)
GR-SL (.06-3.5)	75.04	994.25	0.163	12.23	162.00	150
						135 165

Std rate Meas rate Tool norm Std Mult Log Mult App Con

	Std rate (cts/s)	Meas rate (cts/s)	Tool norm	Std Mult	Log Mult	App Con (pct ppm)
E (.15-3.0)	748	772.1	0.968			

K	0.01169	0.01131	8.733	7.830	9.570
U	0.02668	0.02581	19.931	18.000	22.000
TH	0.07158	0.06926	53.473	48.150	58.850

	Mult chnl/MeV	Add chnls	Chi Sqr qsa	QCAL	GAIN	QPKS
SPECTRUM	70.837	1.500	0.161	0.994 0.980 1.020	2989	5

	P1 .352 MeV	P2 .609 MeV	P3 1.120 MeV	P4 1.765 MeV	P5 2.204 MeV
Std Pk	25.80	44.20	81.00	127.40	159.00
Meas Pk	26.14 22.80 28.80	44.77 40.20 48.20	81.01 76.00 86.00	126.88 121.40 133.40	157.26 152.00 166.00
Fit Pk	26.43	44.64	80.84	126.53	157.62

SL_I1 BEFORE LOG VERIFICATION SUMMARY

TOOL #: 1329XA 10399813 DATE/TIME PERFORMED: Mon Dec 8 13:10:07 2008 DAYS SINCE CAL: 0

UNIT #: 3988XA 008881 CALIBRATOR ID: 4702NA BA-862

	Bkgnd (cts/s)	Cal ON (cts/s)	Mult (gAPI/(cts/s))	Bkgnd (gAPI)	Cal ON (gAPI)	Cal Value (gAPI)
GR-SL (.06-3.5)	69.91	990.42	0.163	11.39	161.37	150 135 165

	Std rate (cts/s)	Meas rate (cts/s)	Tool norm	Std Mult	Log Mult	App Con (pct ppm)
E (.15-3.0)	748	764.2	0.968			

K	0.01169	0.01131	8.643	7.830	9.570
U	0.02668	0.02581	19.726	18.000	22.000
TH	0.07158	0.06926	52.923	48.150	58.850

	Mult chnl/MeV	Add chnls	Chi Sqr qsa	QCAL	GAIN	QPKS
SPECTRUM	70.364	1.832	0.833	0.990 0.980 1.020	2989	5

	P1 .352 MeV	P2 .609 MeV	P3 1.120 MeV	P4 1.765 MeV	P5 2.204 MeV
Std Pk	25.80	44.20	81.00	127.40	159.00

Meas Pk	25.86	44.81	81.55	126.43	156.21
	22.80 28.80	40.20 48.20	76.00 86.00	121.40 133.40	152.00 166.00
Fit Pk	26.60	44.68	80.64	126.03	156.92

SL_II AFTER LOG VERIFICATION SUMMARY

TOOL #: 1329XA 10399813 DATE/TIME PERFORMED: Fri Dec 12 00:11:36 2008 DAYS SINCE CAL: 3

UNIT #: 3988XA 008881 CALIBRATOR ID: 4702NA BA-862

	Bkgnd (cts/s)	Cal ON (cts/s)	Mult (gAPI/(cts/s))	Bkgnd (gAPI)	Cal ON (gAPI)	Cal Value (gAPI)
GR-SL (.06-3.5)	112.48	1040.82	0.163	18.33	169.58	151
						135 165

	Std rate (cts/s)	Meas rate (cts/s)	Tool norm	Std Mult	Log Mult	App Con (pct ppm)
E (.15-3.0)	748	788.7	0.968			

K	0.01169	0.01131	8.920	7.830 9.570
U	0.02668	0.02581	20.359	18.000 22.000
TH	0.07158	0.06926	54.620	48.150 58.850

	Mult chnl/MeV	Add chnls	Chi Sqr qsa	QCAL	GAIN	QPKS
SPECTRUM	71.587	1.075	0.111	1.001	3012	5
				0.980 1.020		

	P1 .352 MeV	P2 .609 MeV	P3 1.120 MeV	P4 1.765 MeV	P5 2.204 MeV
Std Pk	25.80	44.20	81.00	127.40	159.00
Meas Pk	25.93	44.86	81.55	127.45	158.68
	22.80 28.80	40.20 48.20	76.00 86.00	121.40 133.40	152.00 166.00
Fit Pk	26.27	44.67	81.25	127.43	158.85

CN PRIMARY CALIBRATION SUMMARY

TOOL #: 2446XA 178125 DATE/TIME PERFORMED: Mon Oct 27 16:05:07 2008

UNIT #: PERTH LAB CALIBRATOR #: 2437XB 185995 SOURCE #: 4717XS 074080

	MEASURED CPS	DEADTM CPS	CORR	DTC SSN/LSN	NOMINAL SSN/LSN	CORRECTION FACTOR	POROSITY (pu)
LSN	727.22	740.13					

SSN 1898.77 1973.73

RATIO 2.66672 2.75100 1.03160
0.97000 1.07000

CN 21.358

CN PRIMARY VERIFICATION SUMMARY

TOOL #: 2446XA 178125 DATE/TIME PERFORMED: Mon Oct 27 16:23:25 2008

UNIT #: PERTH LAB ICE BLOCK #: 4717ND D--380

	MEASURED CPS	DEADTM CPS	CORR	DTC SSN/LSN	CORRECTION FACTOR	DTC CORR SSN/LSN	POROSITY (pu)
LSN	1972.30	2070.35					
SSN	4710.46	5200.48					
RATIO				2.51188	1.03160	2.59275	
CN							19.128

CN BEFORE LOG VERIFICATION SUMMARY

TOOL #: 2446XA 178125 DATE/TIME PERFORMED: Mon Dec 8 12:52:54 2008 DAYS SINCE CAL: 41

UNIT #: 3988XA 008881 ICE BLOCK #: 4717ND D--380

	MEASURED CPS	DEADTM CPS	CORR	DTC SSN/LSN	CORRECTION FACTOR	DTC CORR SSN/LSN	POROSITY (pu)
LSN	1954.28	2050.50					
SSN	4675.68	5158.12					
RATIO				2.51554	1.03160	2.59656	
CN							19.181 17.128 21.128

CN AFTER LOG VERIFICATION SUMMARY

TOOL #: 2446XA 178125 DATE/TIME PERFORMED: Fri Dec 12 00:05:24 2008 DAYS SINCE CAL: 45

UNIT #: 3988XA 008881 ICE BLOCK #: 4717ND D--380

	MEASURED CPS	DEADTM CPS	CORR	DTC SSN/LSN	CORRECTION FACTOR	DTC CORR SSN/LSN	POROSITY (pu)
LSN	1934.94	2029.22					

SSN 4689.26 5174.69

RATIO 2.55008 1.03160 2.63215

CN 19.678
17.181 21.181

CAL PRIMARY CALIBRATION SUMMARY

TOOL #: 2234XA 188262 DATE/TIME PERFORMED: Mon Dec 8 13:08:08 2008

UNIT #: 3988XA 008881

	SMALL RING	LARGE RING	MULT	ADD	SMALL RING	LARGE RING
					(in)	(in)
CALIPER	1806.0	2590.0	0.00765	-7.82143	6.000	12.000

CAL BEFORE LOG VERIFICATION SUMMARY

TOOL #: 2234XA 188262 DATE/TIME PERFORMED: Thu Dec 11 13:23:53 2008 DAYS SINCE CAL: 3

UNIT #: 3988XA 008881

	I.D.	MULT	ADD	I.D.
CALIPER	2664.4	0.00765	-7.99082	12.400

CAL AFTER LOG VERIFICATION SUMMARY

TOOL #: 2234XA 188262 DATE/TIME PERFORMED: Thu Dec 11 22:21:12 2008 DAYS SINCE CAL: 3

UNIT #: 3988XA 008881

	I.D.	MULT	ADD	I.D.
CALIPER	2690.4	0.00765	-7.99082	12.599
				11.900 12.900

ZDL PRIMARY CALIBRATION SUMMARY

TOOL: 2234XA 188262 DATE/TIME PERFORMED: Tue Oct 28 10:49:11 2008

UNIT: PERTH LAB CALB BLKS: 2225XA 112395 CS SRC: 4705XA 24453B

SS CS PK LS CS PK SS_BKGD LS BKGD

(Channel)	(Channel)	(cps)	(cps)
224.0	224.1	1354.9	1930.0
220.0	230.0	220.0	230.0

	SS (cps)	LS (cps)	SHR	DEN (g/cm ³)	CORR (g/cm ³)	PE (b/e)
MG (LO PE)	25744.2	12950.0	0.622 0.565 0.665	1.699	0.003	2.080
AL	15119.3	1305.5		2.700	-0.009	
AL + SHIM	20807.7	2297.0		2.618	0.158	
MG + SHIM (HI PE)	12611.1	6253.8	0.251 0.210 0.270			8.240
RATIO AL + SHIM/AL	1.38 1.32 1.42	1.76 1.64 1.84				
RATIO MG/AL	1.70 1.65 1.78	9.92 9.40 10.20				

ZDL BEFORE LOG VERIFICATION SUMMARY

TOOL #: 2234XA 188262 DATE/TIME PERFORMED: Thu Dec 11 11:58:18 2008 DAYS SINCE CAL: 44

UNIT #: 3988XA 008881

	TOTAL (cps)	CSPK (Channel)	HV (V)
LS	1909.0 1830.0 2030.0	224.4 220.0 230.0	1161.9 1100.0 1550.0
SS	1354.6 1254.9 1454.9	225.6 220.0 230.0	1178.0 1100.0 1550.0

LV (V)	PAD CURRENT (mA)
5.0 4.8 5.2	77.6 60.0 120.0

ZDL AFTER LOG VERIFICATION SUMMARY

TOOL #: 2234XA 188262 DATE/TIME PERFORMED: Fri Dec 12 00:02:03 2008 DAYS SINCE CAL: 44

UNIT #: 3988XA 008881

	TOTAL (cps)	CSPK (Channel)	HV (V)
LS	1903.1 1830.0 2030.0	224.8 220.0 230.0	1172.1 1100.0 1550.0
SS	1350.0 1254.9 1454.9	224.5 220.0 230.0	1187.8 1100.0 1550.0

LV (V)	PAD CURRENT (mA)
5.0	78.9

XMAce_OR PRIMARY CALIBRATION SUMMARY

TOOL #: 1678MC 10343086

DATE/TIME PERFORMED: Mon Dec 8 13:00:33 2008

UNIT #: 3988XA 008881

ORIENTATION #: 4401XB 10168910

	DEV (deg)	QA (mG)	MEAS RB (deg)	RB OFFSET (deg)	ROTATED RB (deg)
ORIT TBM CHECK	90.0	1004.9	358.8		
		990.0 1010.0			
XMAC-F1 ORIENT			348.8	348.8	0.0

XMAce_OR BEFORE LOG VERIFICATION SUMMARY

TOOL #: 1678MC 10343086

DATE/TIME PERFORMED: Mon Dec 8 13:10:40 2008

DAYS SINCE CAL: 0

UNIT #: 3988XA 008881

	DEV (deg)	QA (mG)	ROTATED RB (deg)
XMAC-F1 ORIENT	89.7	1001.2	0.6
		990.0 1010.0	-1.5 1.5

DLL PRIMARY CALIBRATION SUMMARY

TOOL #: 1239MA 10120337

DATE/TIME PERFORMED: Thu Dec 11 13:35:37 2008

UNIT #: 3988XA 008881

	Sig Low (raw)	Sig High (raw)	Scale Add	Scale Mult	Engr Low (ohm.m)	Engr High (ohm.m)
ED Deep Volt	328.8	4045.3				
ID Deep Curr	1735.8	23.6				
ES Shallow Volt	310.4	3793.8				
IS Shallow Curr	1042.1	14.6				
RD Deep Resist			-0.00001	0.01994	9.5	9500.0
RS Shallow Resist			-0.00001	0.01873	15.9	15900.0

CAL PRIMARY CALIBRATION SUMMARY

TOOL #: 1233XA 154386

DATE/TIME PERFORMED: Mon Dec 8 13:30:28 2008

UNIT #: 3988XA 008881

	SMALL RING (mV)	LARGE RING (mV)	MULT	ADD	SMALL RING (in)	LARGE RING (in)
CALIPER	1703.4	2526.9	0.00729	-6.41128	6.000	12.000

CAL BEFORE LOG VERIFICATION SUMMARY

TOOL #: 1233XA 154386 DATE/TIME PERFORMED: Thu Dec 11 13:24:04 2008 DAYS SINCE CAL: 2

UNIT #: 3988XA 008881

	I.D. (mV)	MULT	ADD	I.D. (in)
CALIPER	2688.0	0.00729	-7.18533	12.400

CAL AFTER LOG VERIFICATION SUMMARY

TOOL #: 1233XA 154386 DATE/TIME PERFORMED: Thu Dec 11 22:21:15 2008 DAYS SINCE CAL: 3

UNIT #: 3988XA 008881

	I.D. (mV)	MULT	ADD	I.D. (in)
CALIPER	2641.1	0.00729	-7.18533	12.058
				11.900 12.900

MLL PRIMARY CALIBRATION SUMMARY

TOOL #: 1233XA 154386

DATE/TIME PERFORMED: Thu Dec 11 13:35:22 2008

UNIT #: 3988XA 008881

	INT ZERO (raw)	INT CAL (raw)	MULT	ADD	ZERO (mS/m)	CAL (mS/m)
MLL Conductivity	1.221	1046.14	0.95605	-0.16706	1.000	1000.00
	-2.000 4.000	900.00 1100.00				

MLL AFTER LOG VERIFICATION SUMMARY

TOOL #: 1233XA 154386 DATE/TIME PERFORMED: Thu Dec 11 22:29:05 2008 DAYS SINCE CAL: 0

UNIT #: 3988XA 008881

	INT ZERO (raw)	INT CAL (raw)	MULT	ADD	ZERO (mS/m)	CAL (mS/m)
MLL Conductivity	1.419	1060.91	0.95605	-0.16706	1.190	1014.12
					0.000 2.000	850.00 1050.00



COMPANY APACHE ENERGY LIMITED
 WELL MADFISH-1
 FIELD EXPLORATION
 COUNTRY AUSTRALIA

FILE NO: _____
 API NO: _____



LOCATION:
 LAT : 038DEG 39' 24.823" S
 LONG: 148DEG 31' 24.486" E

ELEVATIONS:
 KB -
 DF 21.5 M
 GL -392.6 M

SUITE 1
 TVD DEPTH
 FIELD PRINT
 SCALE 1:200

DATE 11-DEC-2008