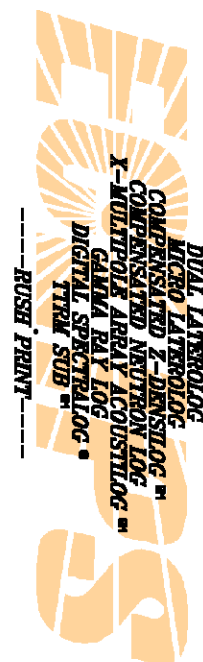




Baker Atlas



FILE NO:	COMPANY	APACHE ENERGY LIMITED
API NO:	WELL	MADFISH-1
	FIELD	MADFISH
	COUNTRY	AUSTRALIA
Ver. 3.87 FIELD PRINT SCALE 1:200	LOCATION:	LAT : 038DEC 39' 24.823" S LONG: 148DEC 31' 24.486" E
SUITE 1		OTHER SERVICES VSP
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
SERVICE ORDER	1
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 @ 1546.3 M
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 @ 26.22 DEGC
RMF AT MEAS. TEMP.	0.0592 OHM @ 23.23 DEGC
RMC AT MEAS. TEMP.	0.1289 OHM @ 23.28 DEGC
SOURCE OF RMF	RMC
MEASURED	MEASURED
RM AT BHT	
TIME SINCE CIRCULATION	19 HOURS
MAX. RECORDED TEMP.	
EQUIP. NO.	HL 8881
LOCATION	PERTH
RECORDED BY	B.GERLACH/I.SIREGAR
WITNESSED BY	G.FAUNIS/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
8.5 IN	1546.3 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. DEPTHS WAS MATCHED TO THE CASING SHOE AND AT THE BOTTOM OF THE 12-1/4IN SECTION, AT CUSTOMERS 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: 27.5 DEG AT 4306.4 M.
  - \* MAXIMUM RECORDED TEMPERATURE FROM THERMOMETERS: ---, ---, --- C.
  - \* TOTAL BOREHOLE VOLUME FOR RECORDED INTERVAL, --- TO ---, IS --- M3.
  - \* COMPUTED CEMENT VOLUME FOR RECORDED INTERVAL FOR 7 IN CASING IS --- M3.

- \* MLL/DLL/XMAC/ZDL/CN/ORIT/GR/DSL/TTRM RUN IN COMBINATION.
- \* XMAC TOOL RUN CENTRALISED.
- \* MLL/DLL RUN STOOD OFF.
- \* ZDL/CN/GR/DSL RUN DECENTRALISED, BOWSPRING DECENTRALISER USED.
- \* 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 INTEGRATED ACOUSTIC TRAVEL TIME: --- MSEC OVER RECORDED INTERVAL.
- \* ZDL/CN DATA PRESENTED ON LIMESTONE SCALES.
- \* NEUTRON POROSITY IS CORRECTED FOR BOREHOLE SIZE AND SALINITY.
- \* SPECTRALOG DATA CORRECTED FOR KCL IN DRILLING MUD.

#### EQUIPMENT DATA

RUN	TRIP	TOOL	SERIES NO.	SERIAL NO.	POSITION
1	1	PWR ADPTR	4430XB	10173278	FREE
1	1	SWIVEL	3944XD	10127260	FREE
1	1	PCL ISO	3997XC	10411486	STDOFF
1	1	PCL ISO	3997XC	10127260	FREE
1	1	ENHANCER	9993DB	10498268	FREE
1	1	TTRM	3981XA	10045149	FREE
1	1	JAR	9993DA	10498267	FREE
1	1	COM REMOTE	3514XA	10177072	FREE
1	1	KNUCKLE	3939XA	10168910	FREE
1	1	GR-DSL	1329XB	10399813	DECENTRALISED
1	1	CN	2446XA	178125	DECENTRALISED
1	1	ZDL	2234XA	188262	PAD DEVICE
1	1	KNUCKLE	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 PB	1678PB	10195602	CENTRALISED
1	1	XMAC TX	1678BA	10217523	CENTRALISED
1	1	XMAC TXE	1678FA	10132925	CENTRALISED
1	1	SLAM ADPTR	3516XA	183701	FREE
1	1	SHORT ISO	3967XA	151158	FREE
1	1	DLL E	1239EA	10119425	STD OFF
1	1	DLL M	1239MA	10120337	STDOFF
1	1	MLL	1233XA	154386	PAD DEVICE

RUSH PRINT - 1:200 SCALE

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

Thu Dec 11 23:07:12 2008

Perplt /main/62

Cplot

Pdf\_Cpp /main/16

Fileview 5.24

#### PARAMETER AND FILTER SUMMARY REPORT

FILE: /data/modfish1/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
SPEED	FILTER ( )	medium (1)		''	''
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 (hrd2*)	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	X-Axis		''	''
X-Y COMBINED CALIPER PROCESSING BIT SIZE	BIT SIZE	12.250	in	TOP	3318.372
		8.500	in	3318.372	3352.419
		12.250	in	3352.419	3353.791
		8.500	in	3353.791	BOTTOM
MUD SAMPLE RESISTIVITY	MUD SAMPLE TEMP	26.2	degC	TOP	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	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. (dlbh*)	USE CALIPER		TOP	BOTTOM
	CALIPER/FIXED DIA. (slbh*)	USE CALIPER		''	''
	CALIPER/FIXED DIA. (zdbh*)	USE CALIPER		''	''
BOREHOLE CORR DIAMETER	FIXED DIAMETER (cnbh*)	8.500	in	''	''
	FIXED DIAMETER (dlbh*)	8.500	in	''	''
	FIXED DIAMETER (slbh*)	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
		11.5	pct	2607.183	2682.589
		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
	11.5	pct	2607.031	2682.437
	8.1	pct	2682.437	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		1618.640
		40000	Hz		1618.640
		10000	Hz		1624.965
		40000	Hz		1677.695
		10000	Hz		1746.580
		40000	Hz		1748.580
		10000	Hz		1948.053
		30000	Hz		1948.053
		10000	Hz		2160.041
		15000	Hz		2339.721
		50000	Hz		2339.721
		15000	Hz		2689.631
		40000	Hz		2689.631
		15000	Hz		2695.818
		40000	Hz		2697.691
		15000	Hz		2697.691
		20000	Hz		2726.665
					2726.665
					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: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:CH2	CH2	Dec 11 22:53:11 2008	BOREHOLE SIZE CORRECTED COMPENSATED NEUTRON POROSITY

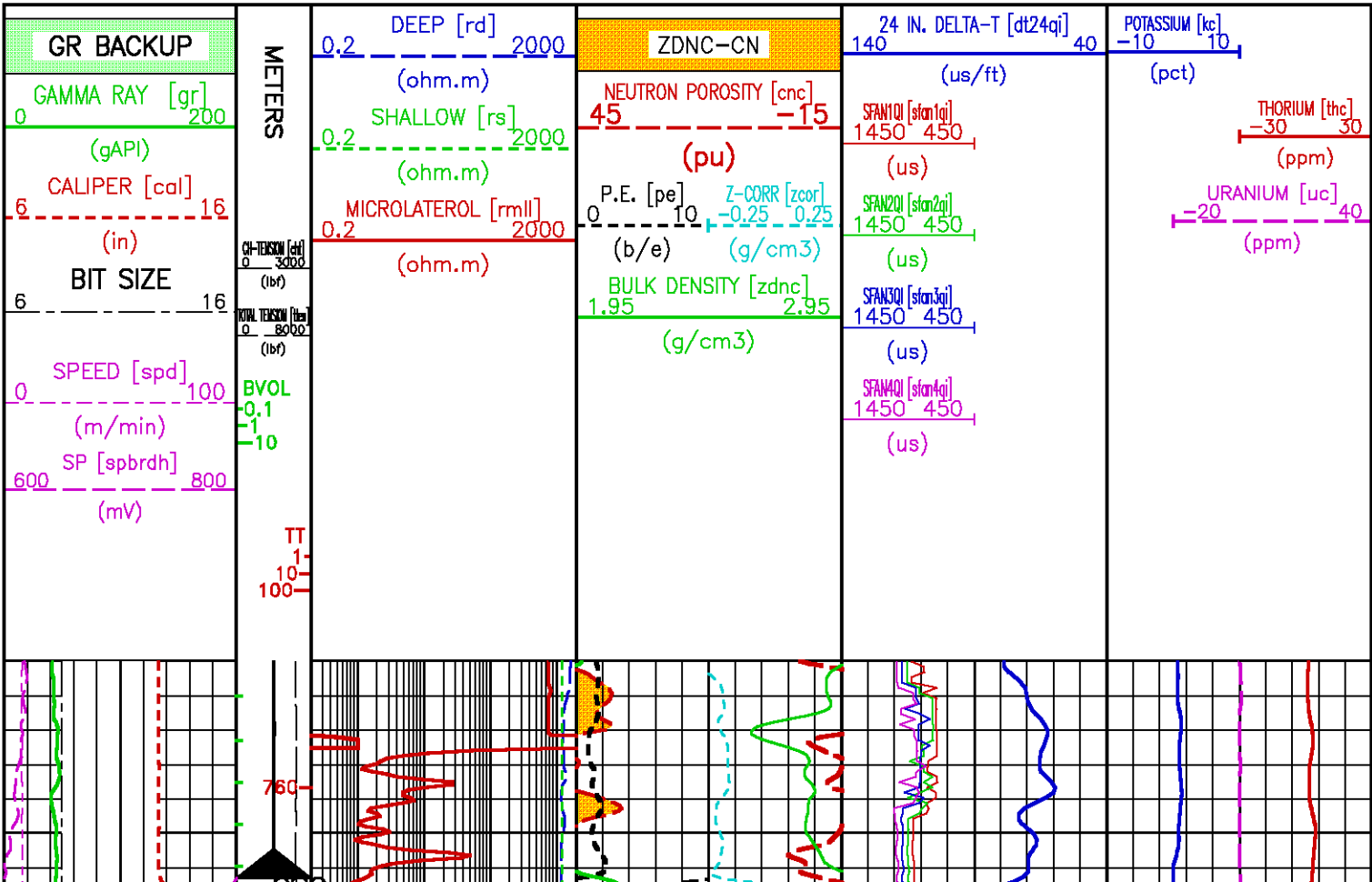
F1:CNC	CNC	Dec 11 22:53:11 2008	BOREHOLE SIZE CORRECTED COMPENSATED NEUTRON POROSITY
F1:DT24QI	DT24.I	Dec 11 22:53:14 2008	INTERVAL TRANSIT TIME OVER 24 INCH INTERVAL
F1:GR	GR	Dec 11 22:53:16 2008	GAMMA RAY
F1:KC	KC	Dec 11 22:53:17 2008	POTASSIUM INPUT FROM SPECTRALOG
F1:PE	PE	Dec 11 22:53:18 2008	PHOTO 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.I	Dec 11 22:53:22 2008	SURFACE PICK FIRST ARRIVAL TIME, T2R1
F1:SFAN2QI	SFAN2.I	Dec 11 22:53:22 2008	SURFACE PICK FIRST ARRIVAL TIME, T2R2
F1:SFAN3QI	SFAN3.I	Dec 11 22:53:23 2008	SURFACE PICK FIRST ARRIVAL TIME, T2R3
F1:SFAN4QI	SFAN4.I	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:SPD	SPD	Dec 11 22:53:23 2008	SPEED
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.I	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

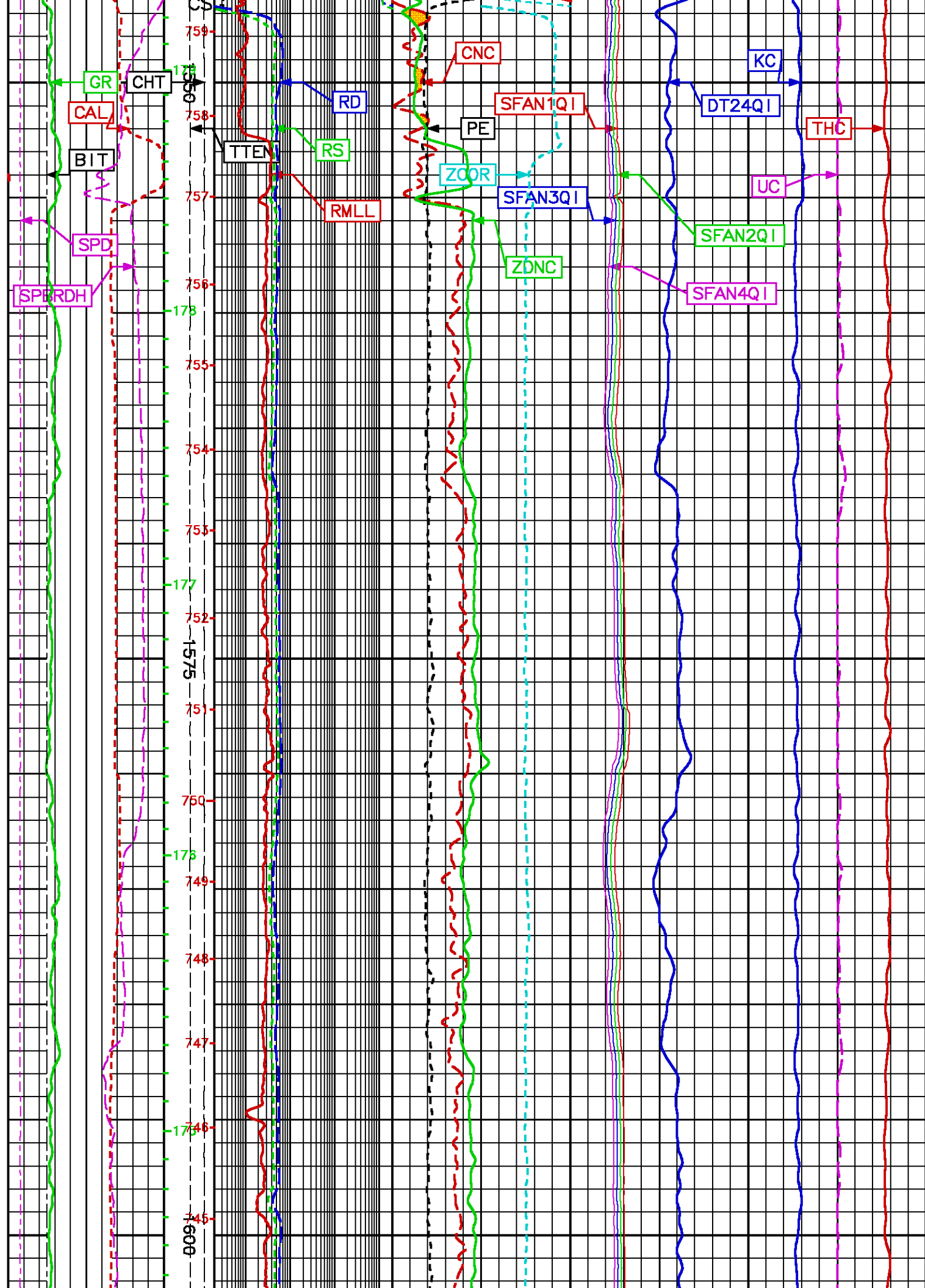
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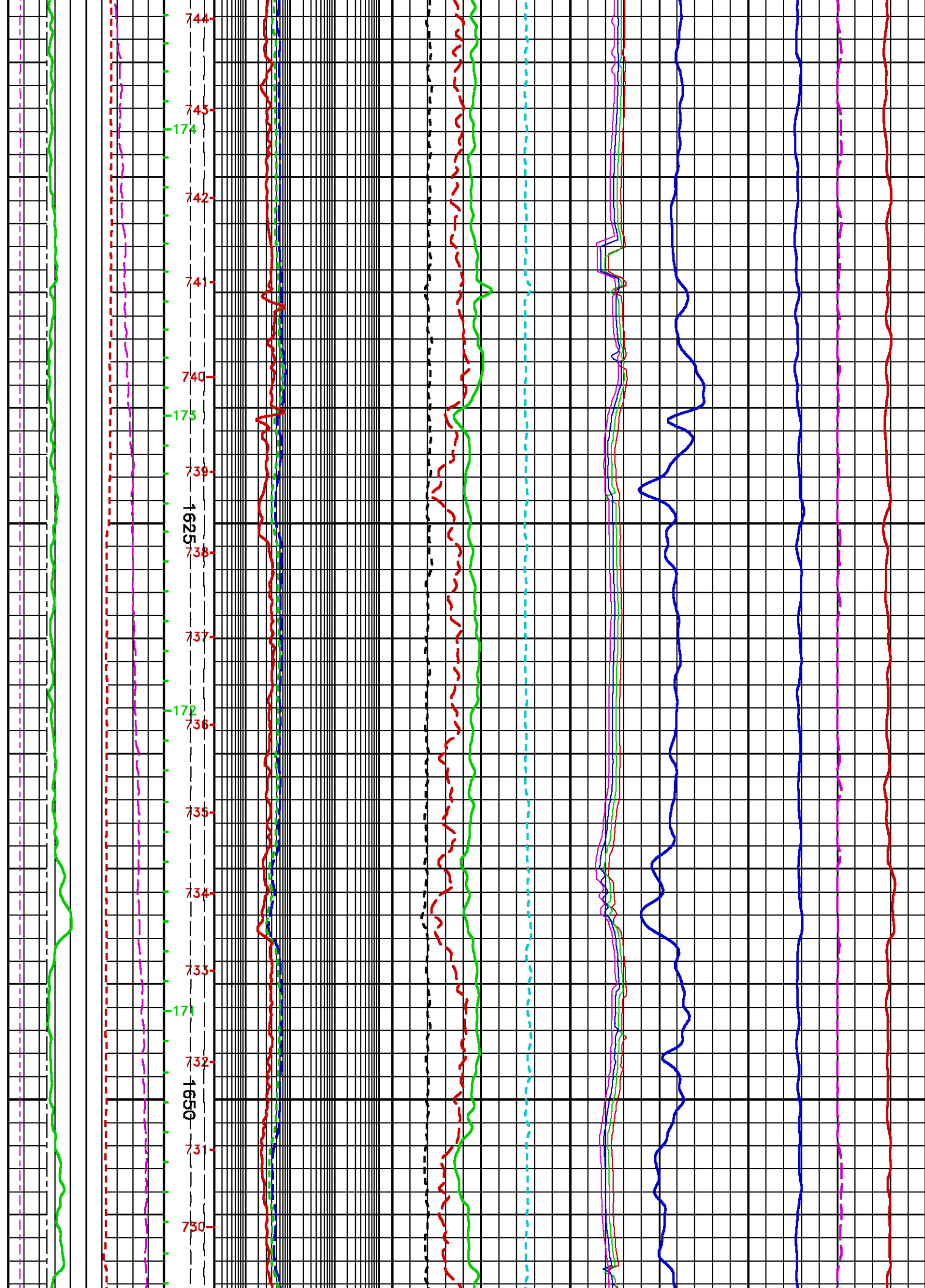
CURVE	OFFSET (m)	CURVE	OFFSET (m)	CURVE	OFFSET (m)	CURVE	OFFSET (m)
CAL	0.91	PE	28.99	SFAN3QI	17.22	UC	34.44
CHT	0.00	RD	6.71	SFAN4QI	17.37	ZCOR	28.99
CNC	32.31	RMLL	0.91	SPBRDH	50.06	ZDNC	28.99
DT24QI	16.46	RS	6.71	SPD	0.00		
GR	34.44	SFAN1QI	17.07	THC	34.44		
KC	34.44	SFAN2QI	17.22	TEN	0.00		

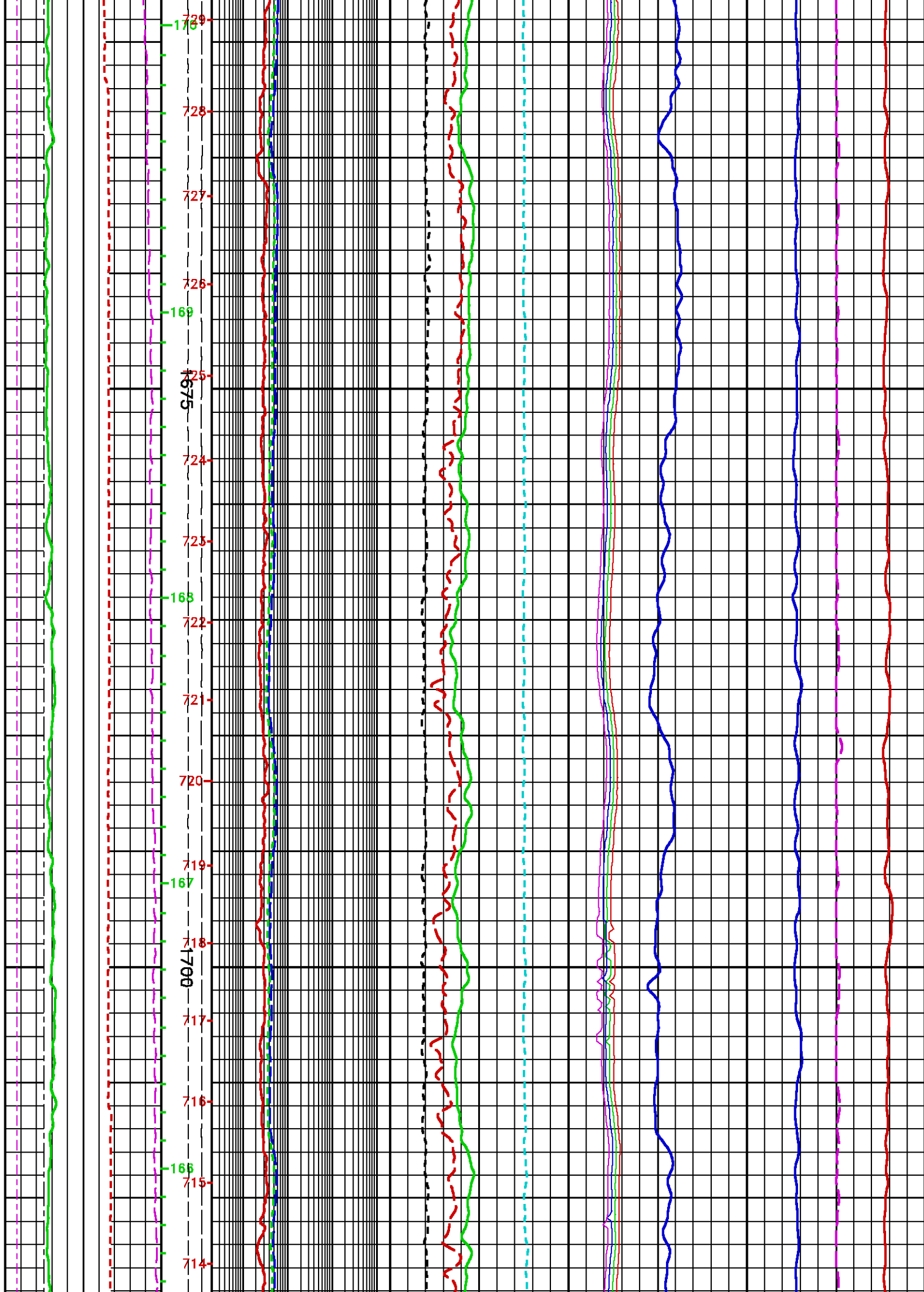
Presentation : sys1:/dat1a/madfish1/COMPOSITE\_MAIN200\_RUSH.pdf [1:200 Scale]  
Plot Interval : 1540 - 4367.78 Meters

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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 : k772I

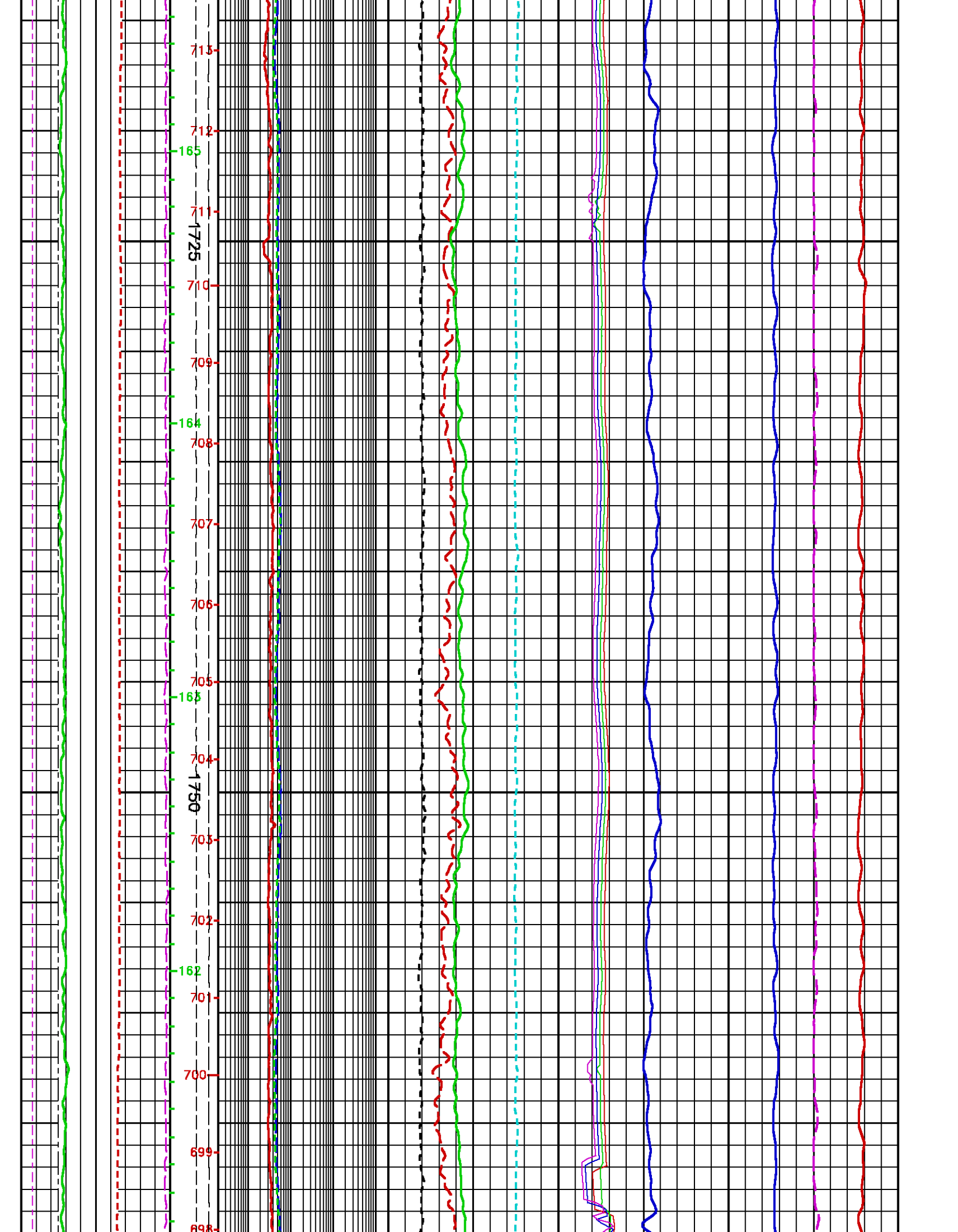


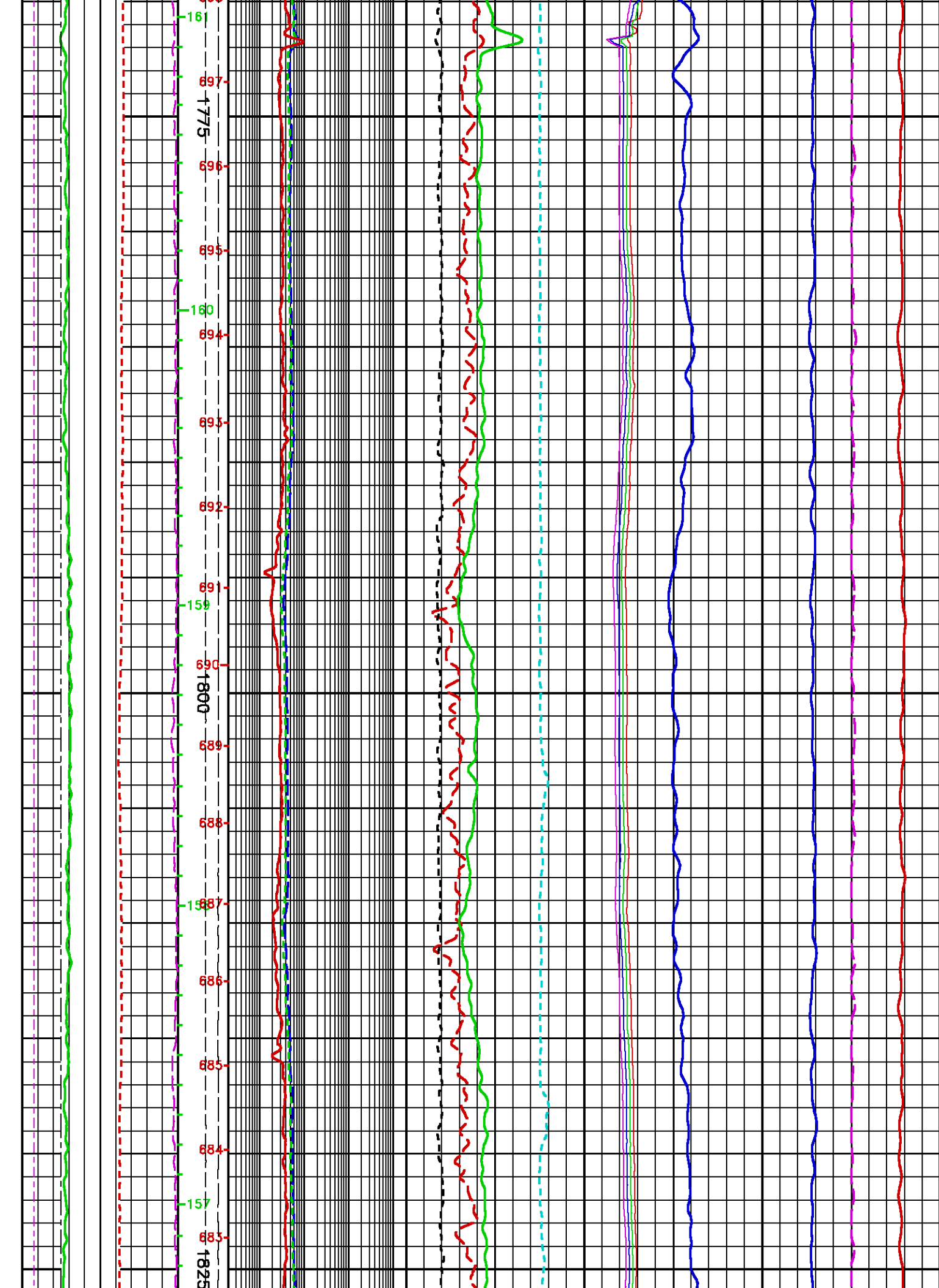


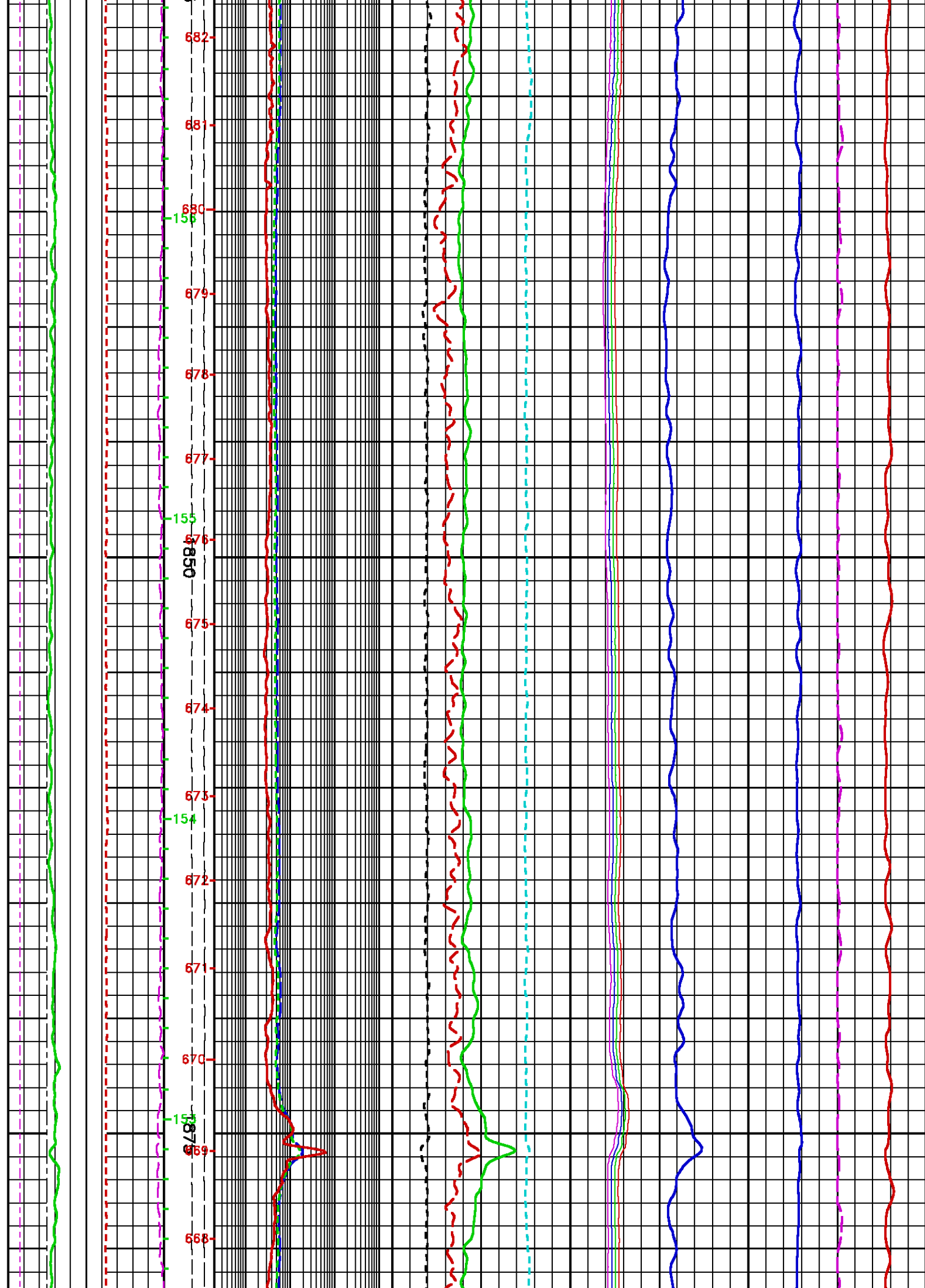


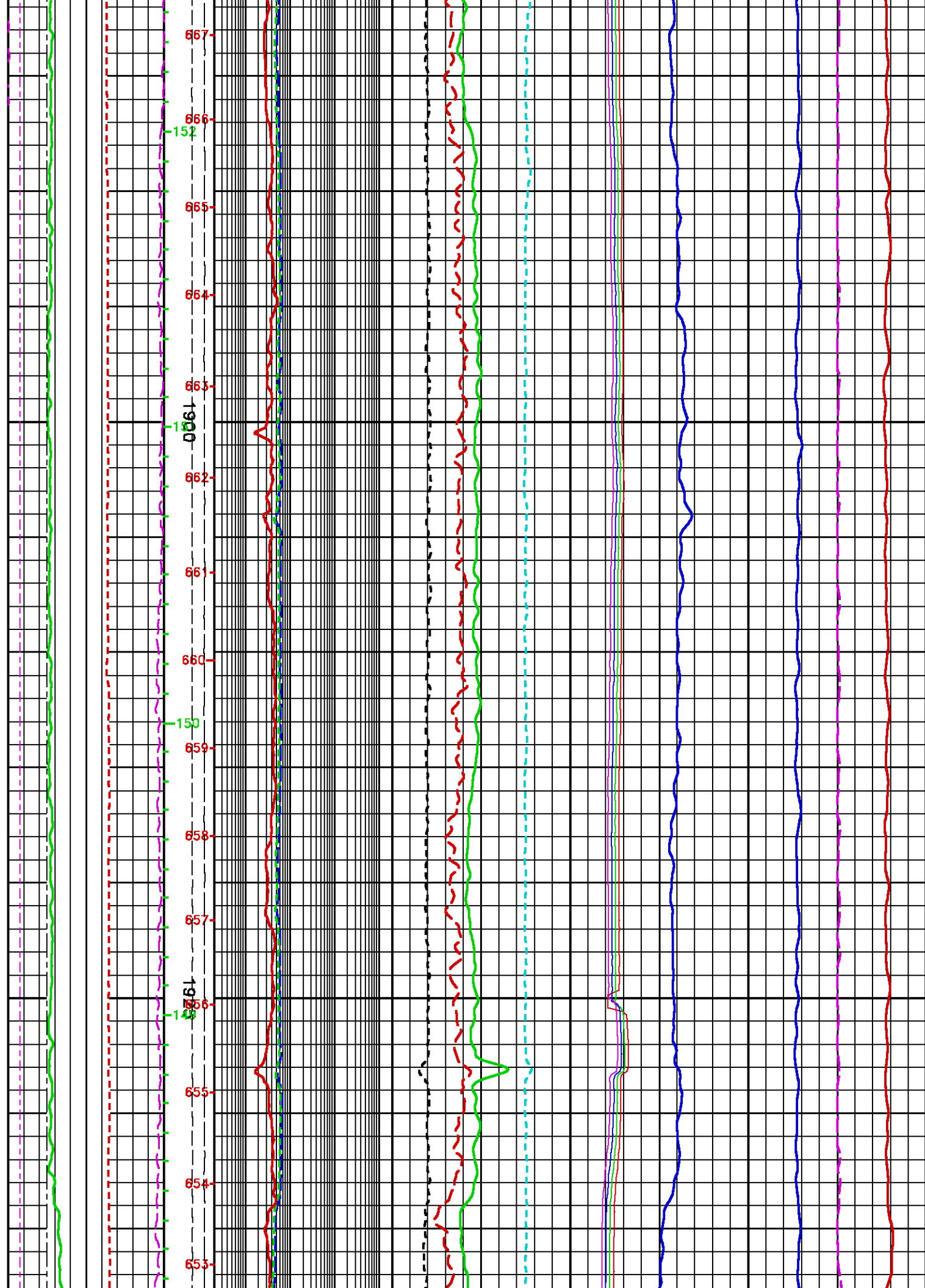


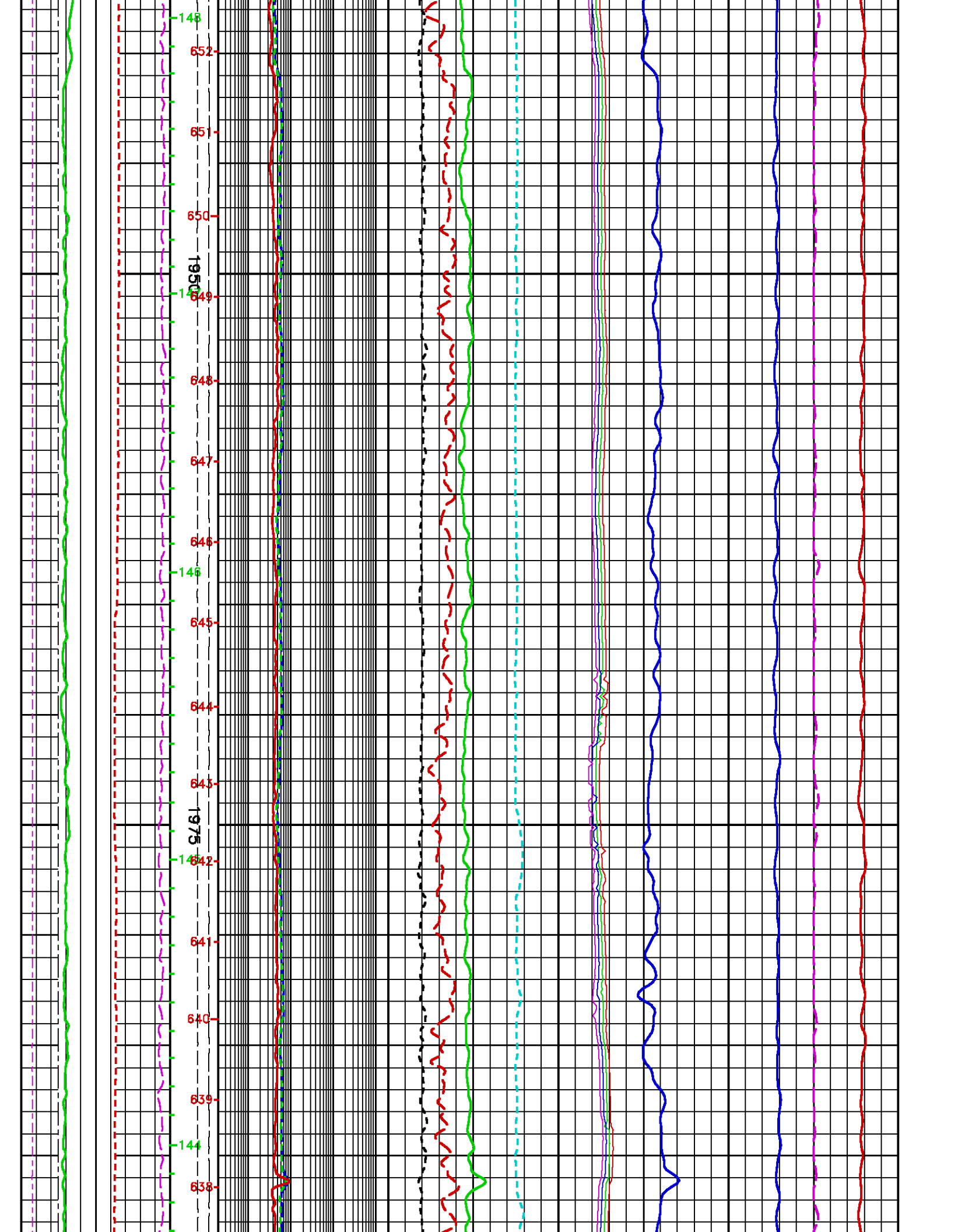


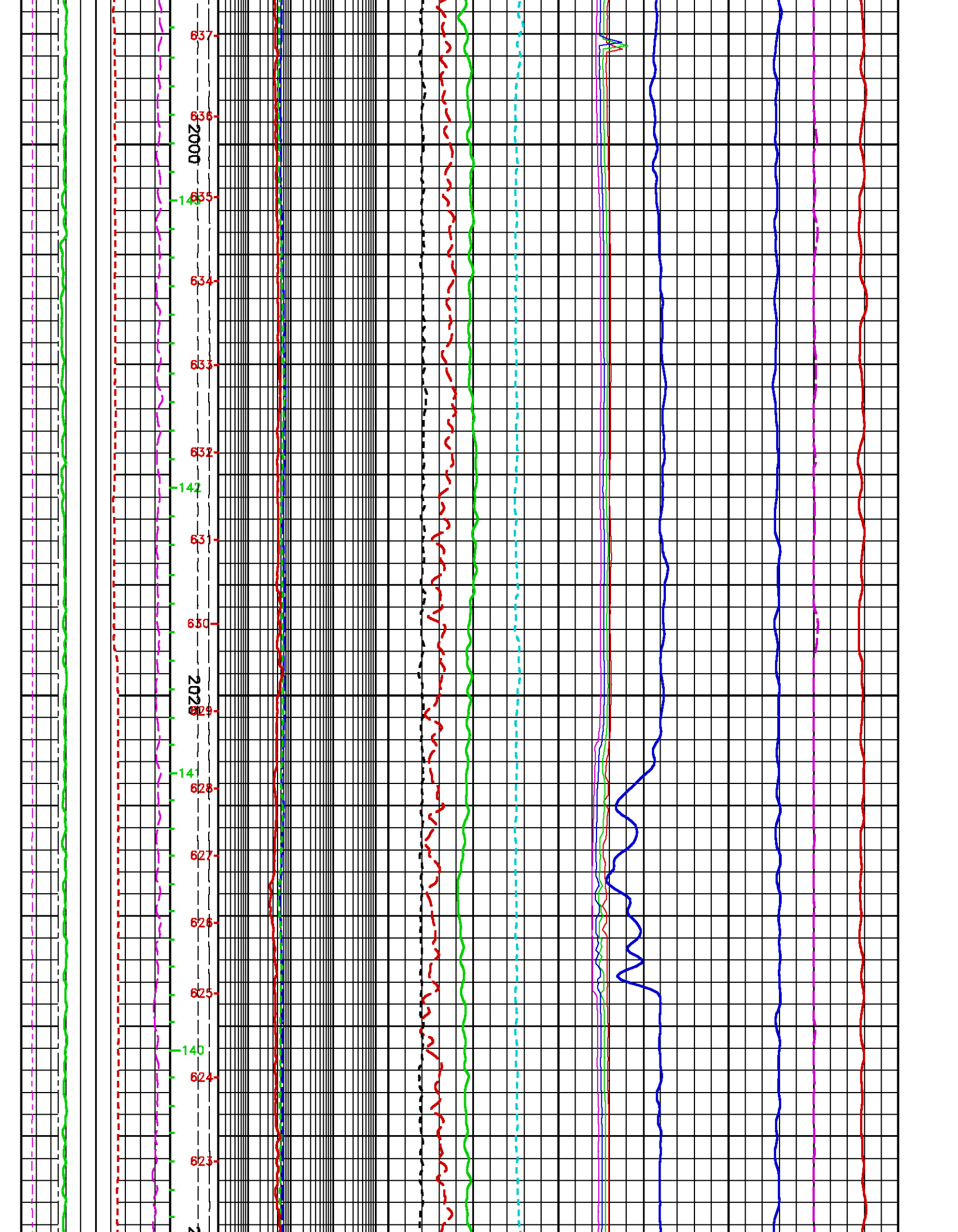


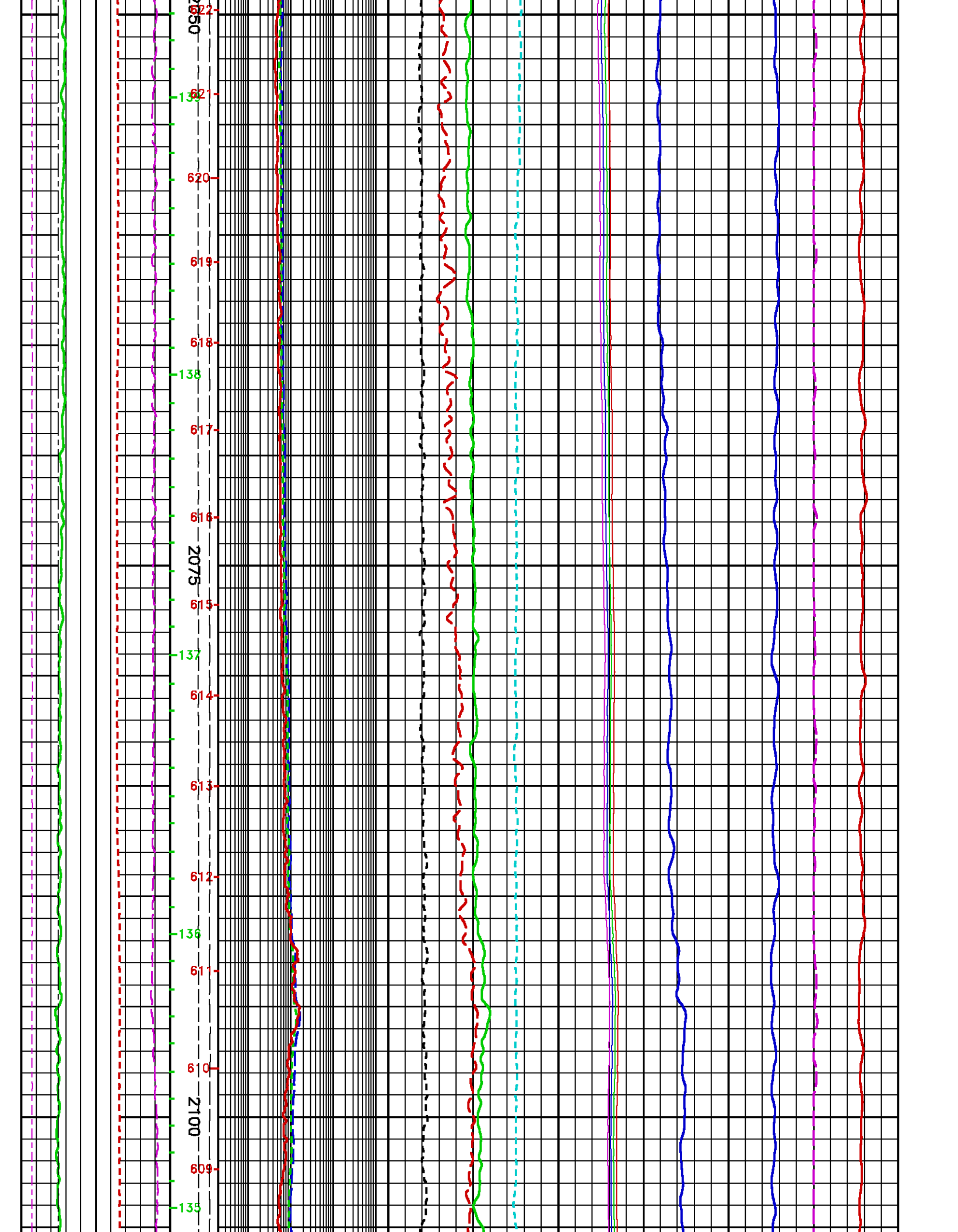


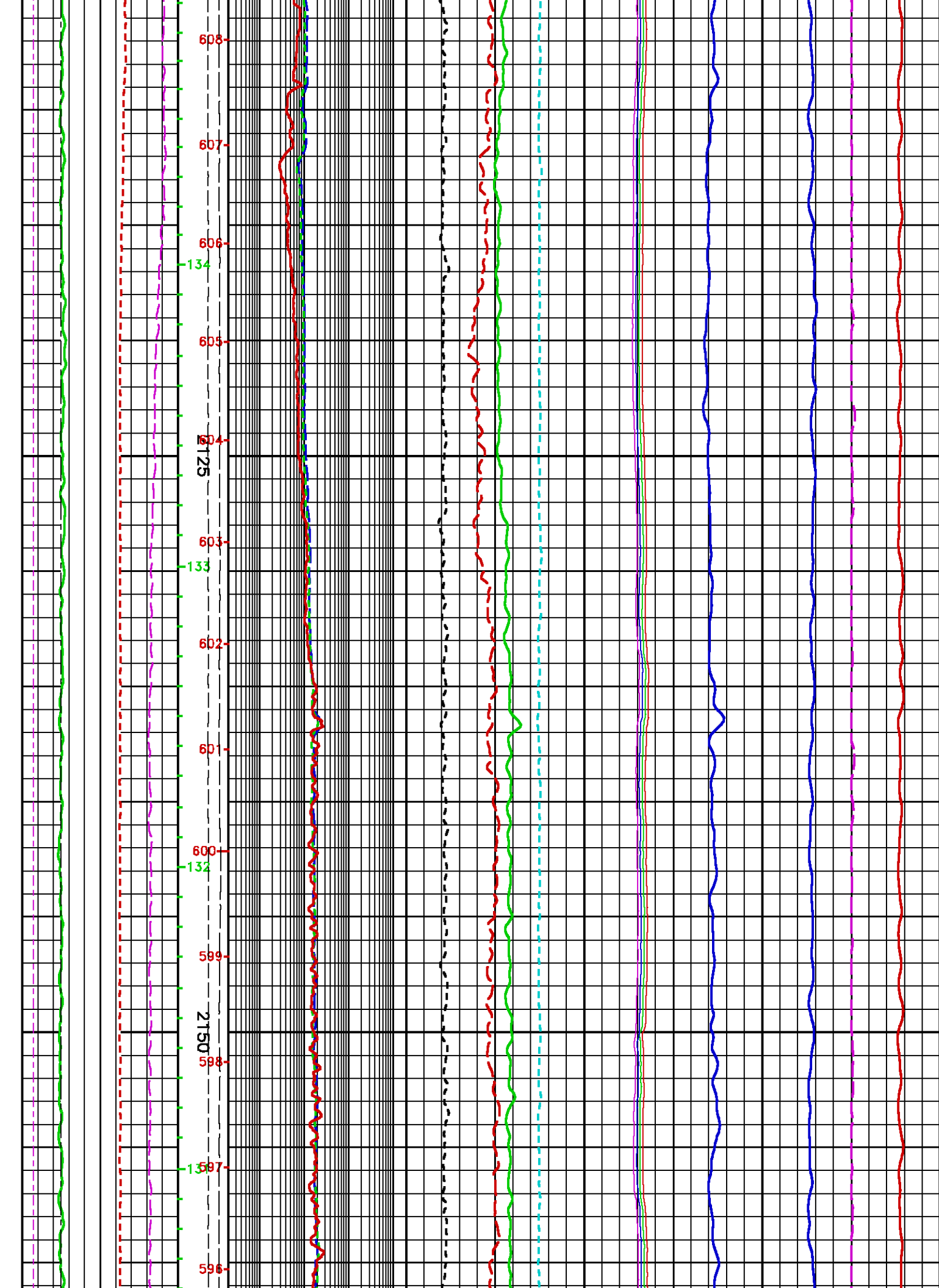




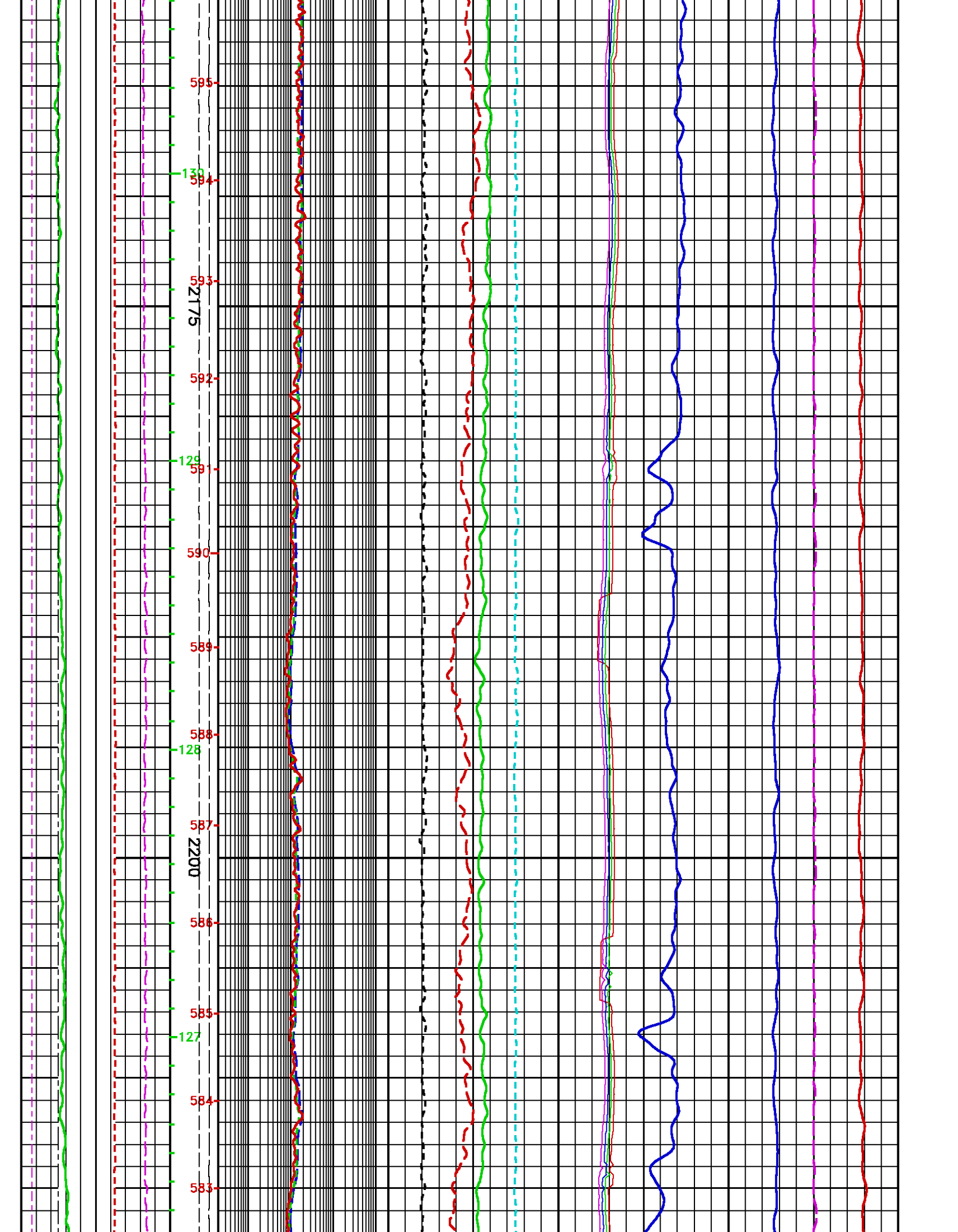


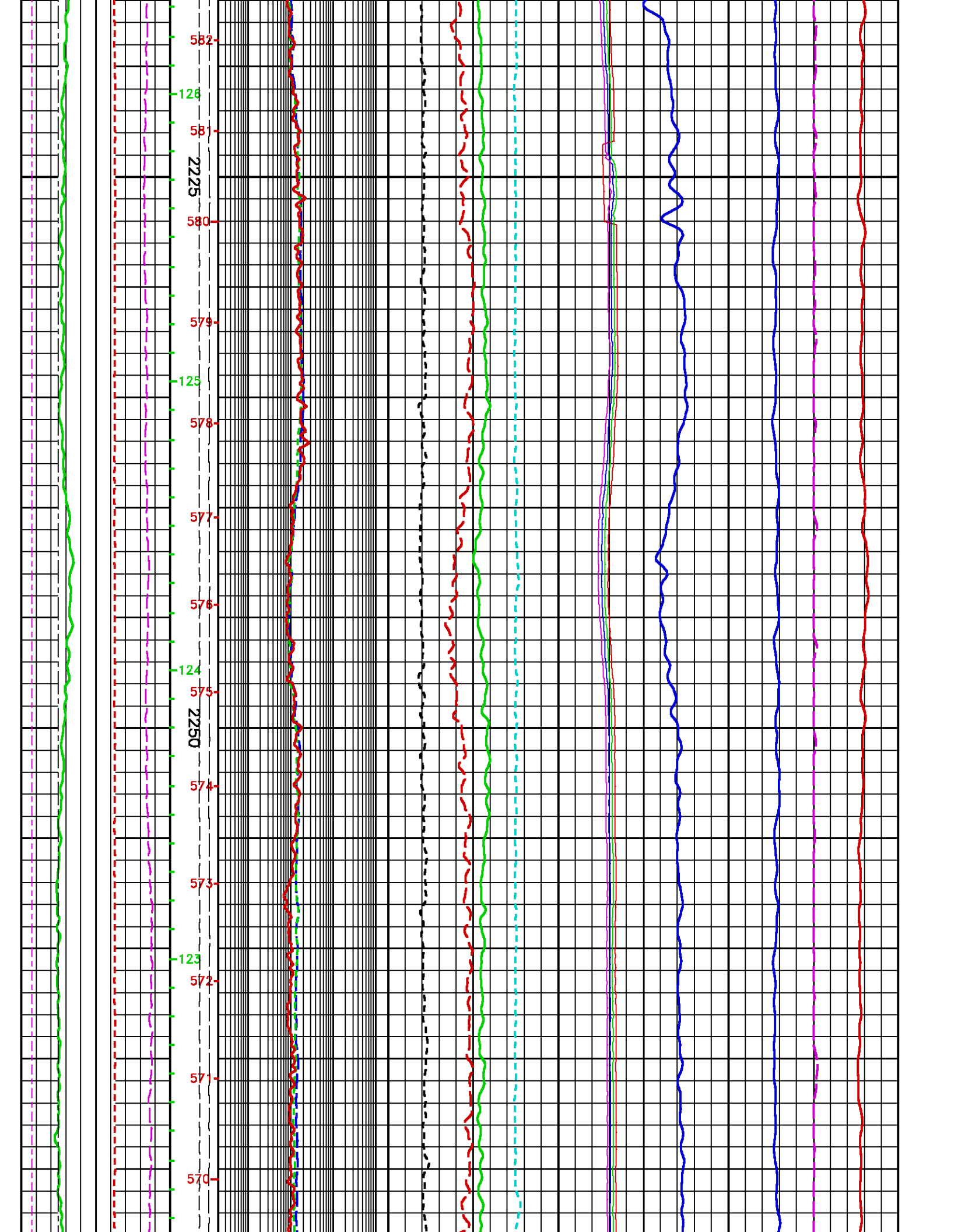


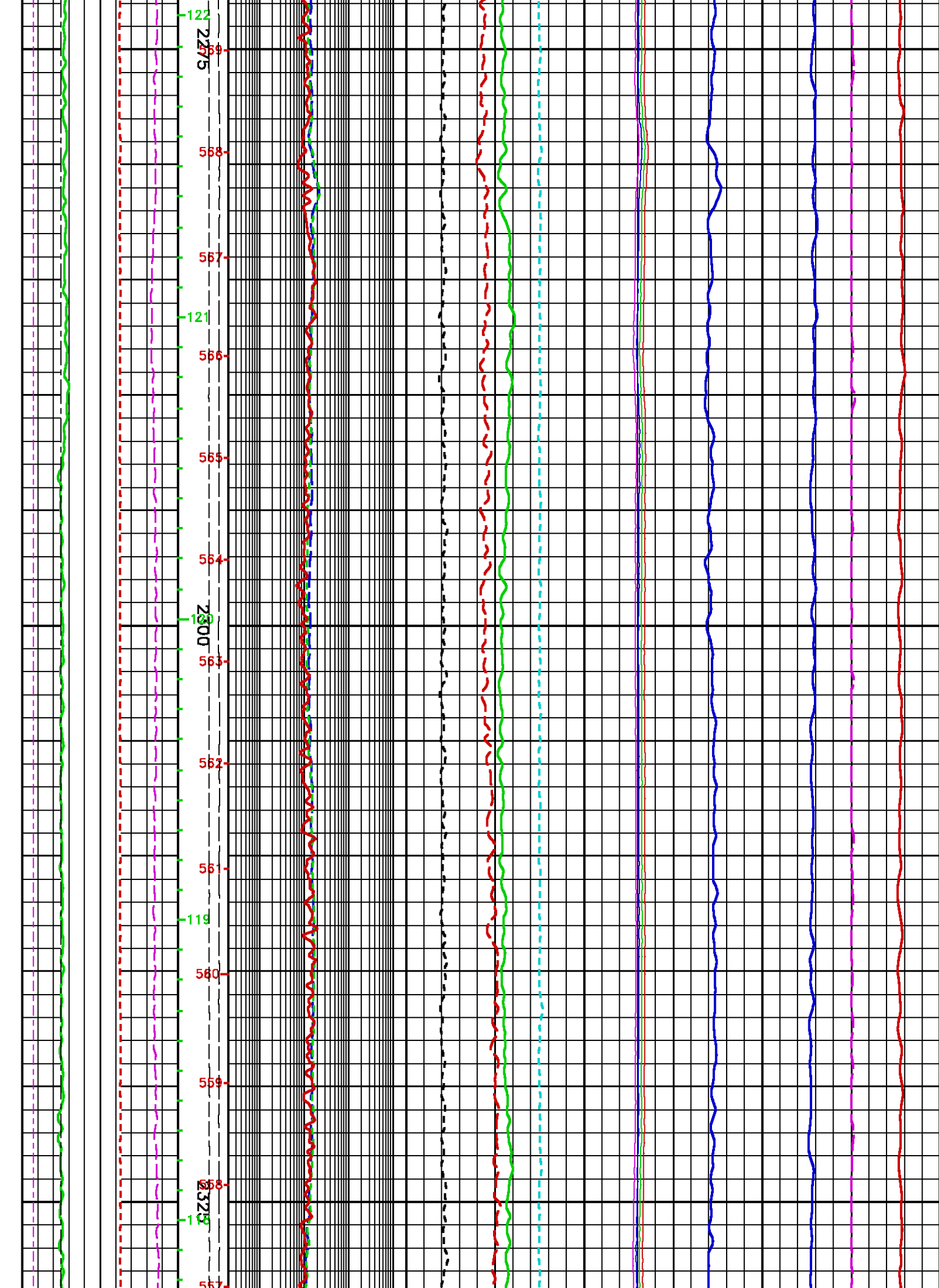


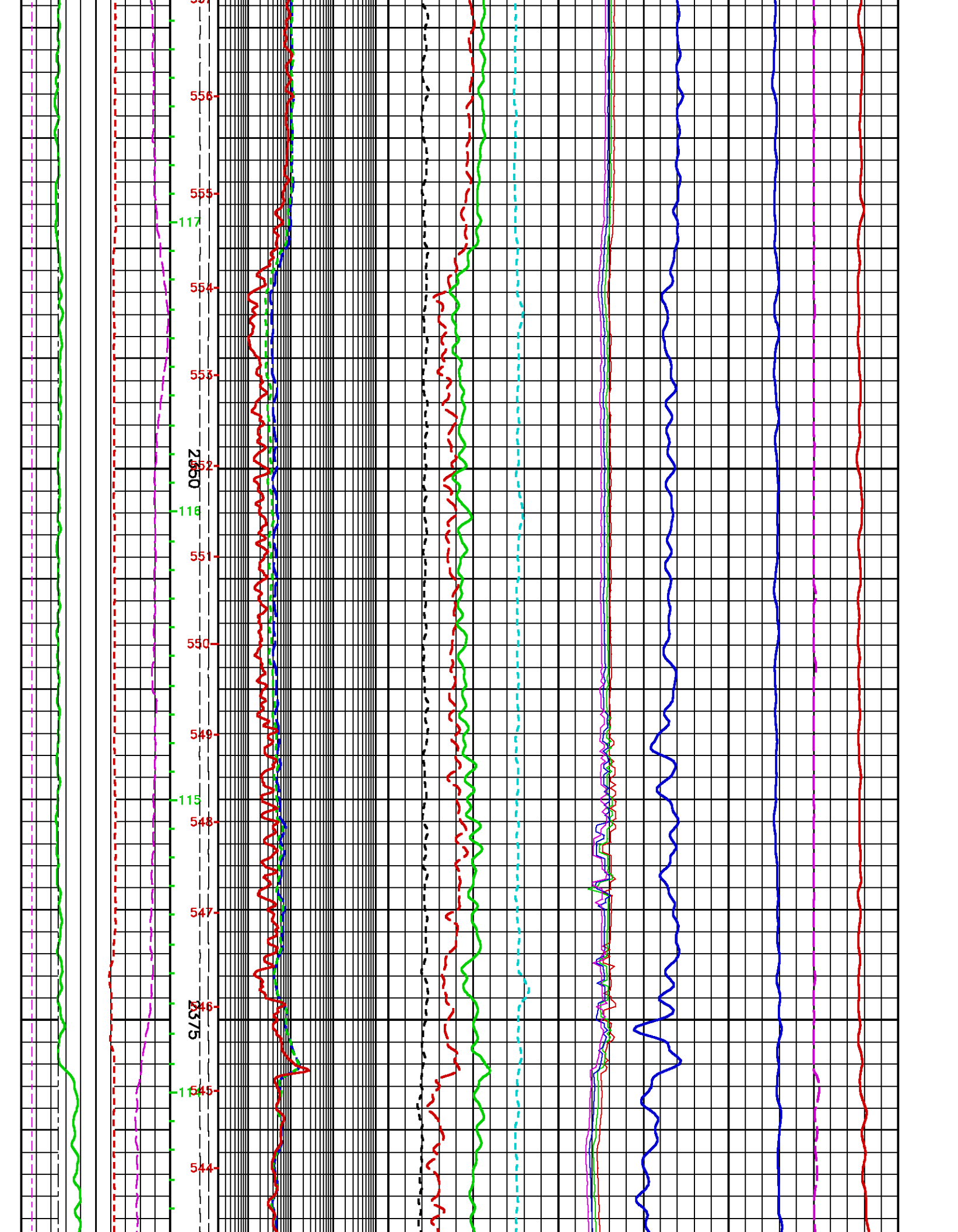


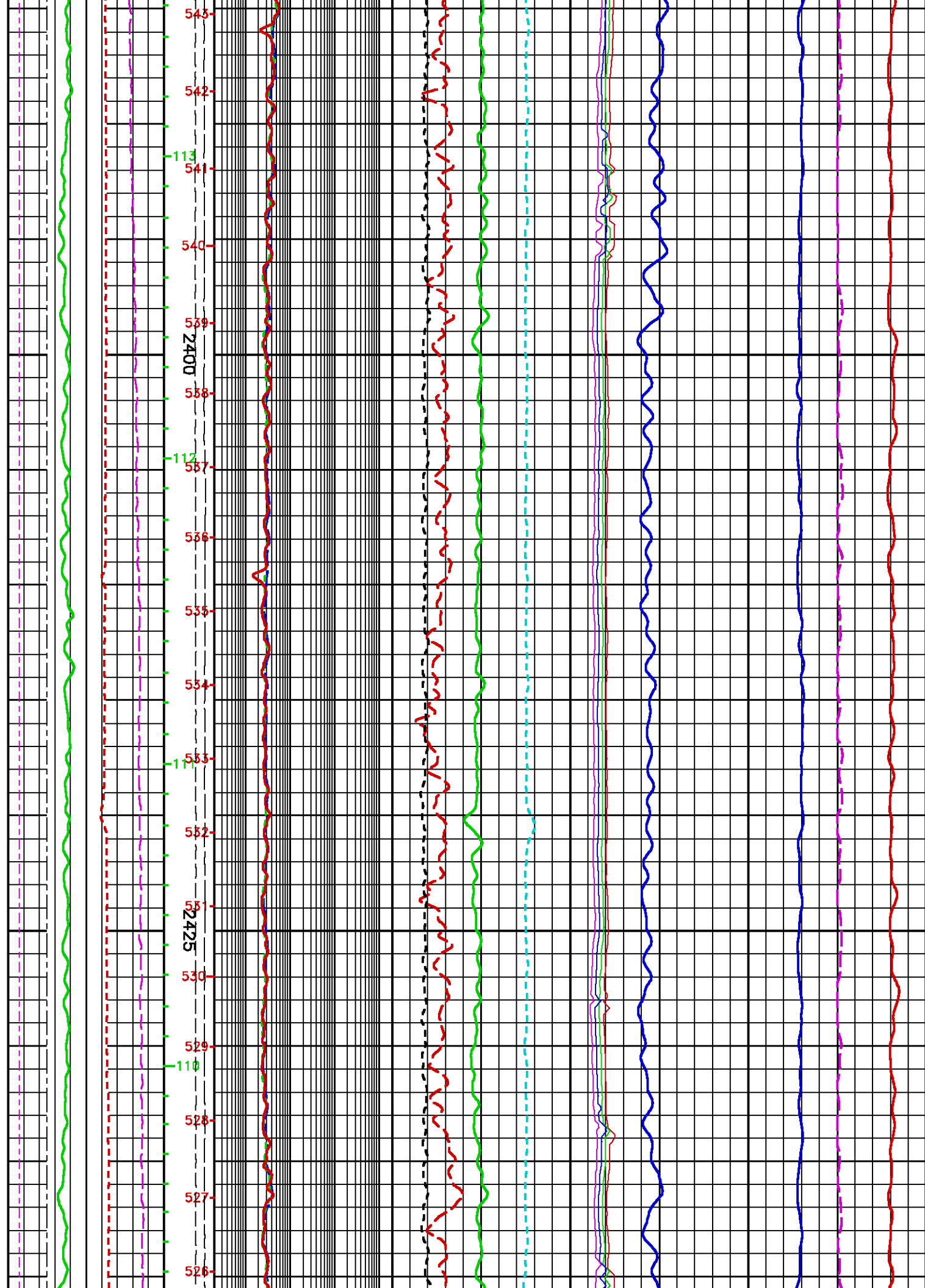


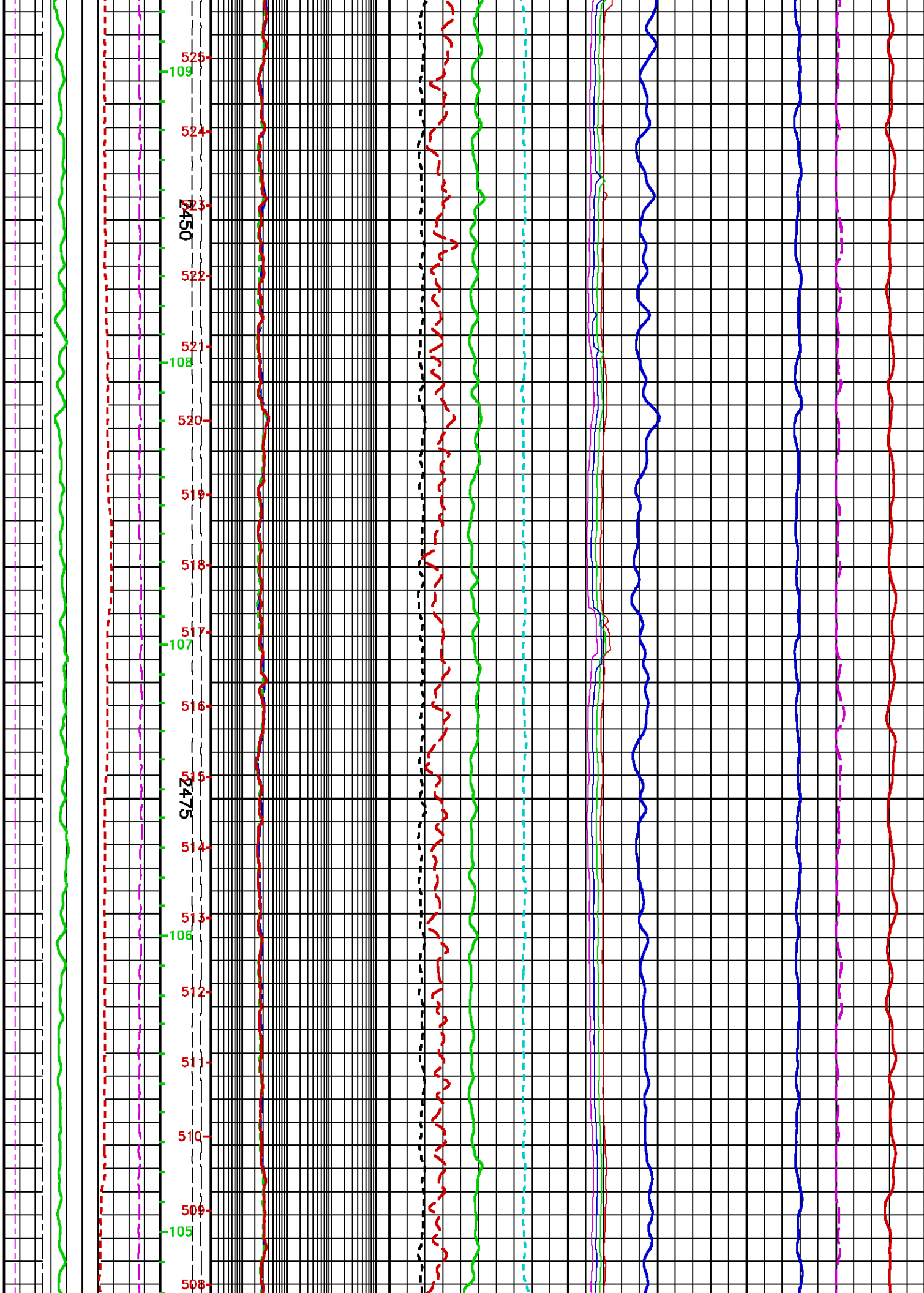


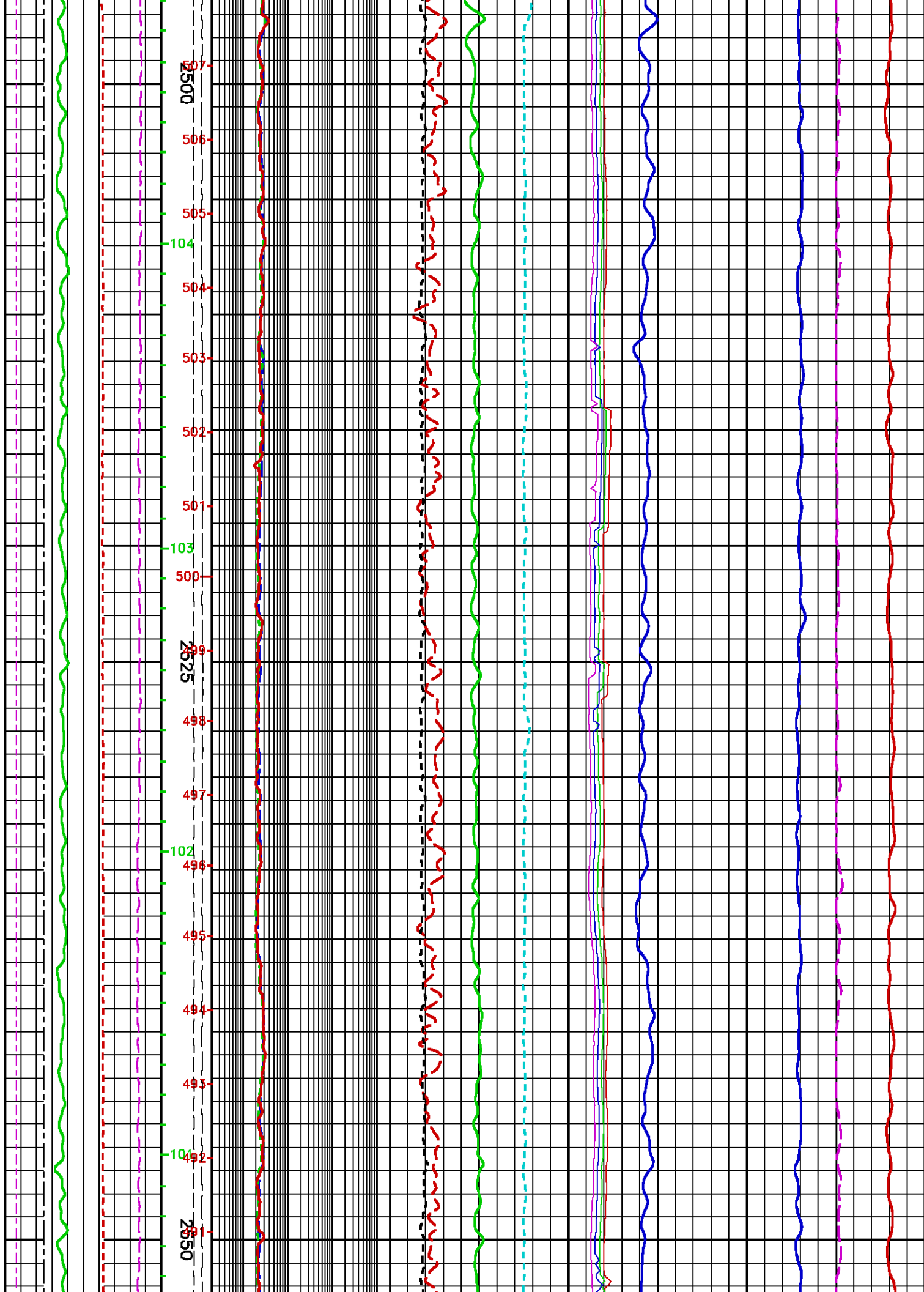


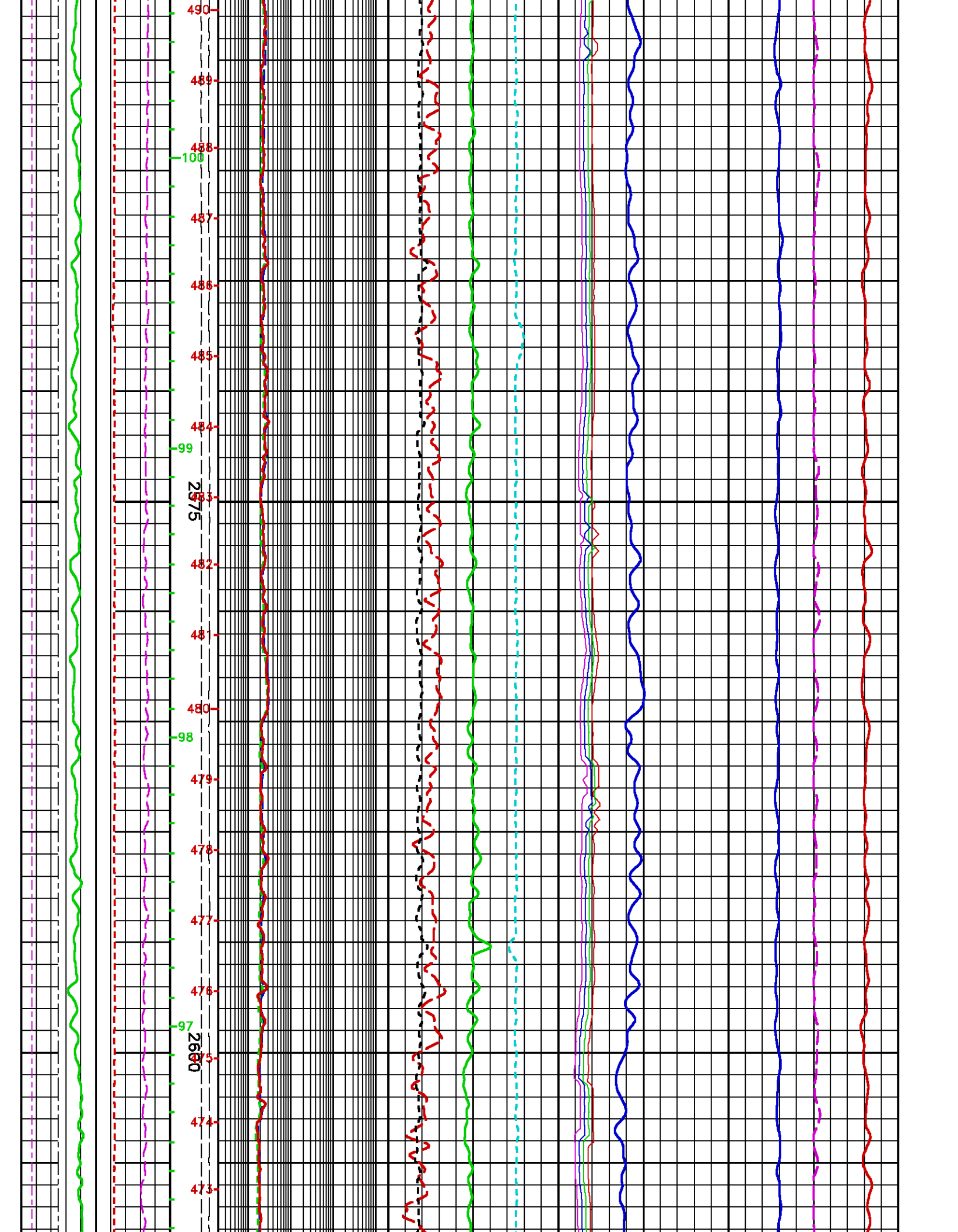




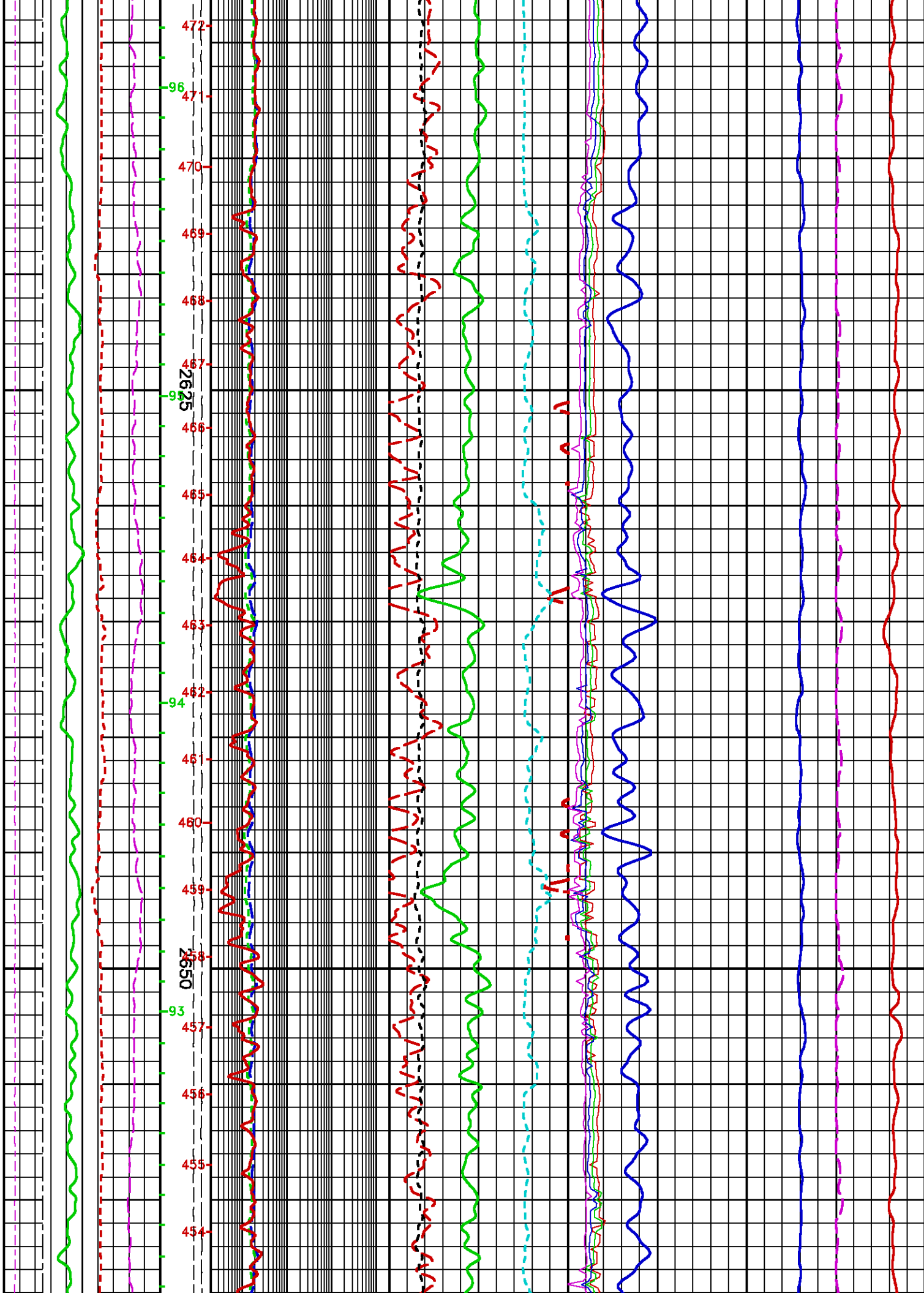


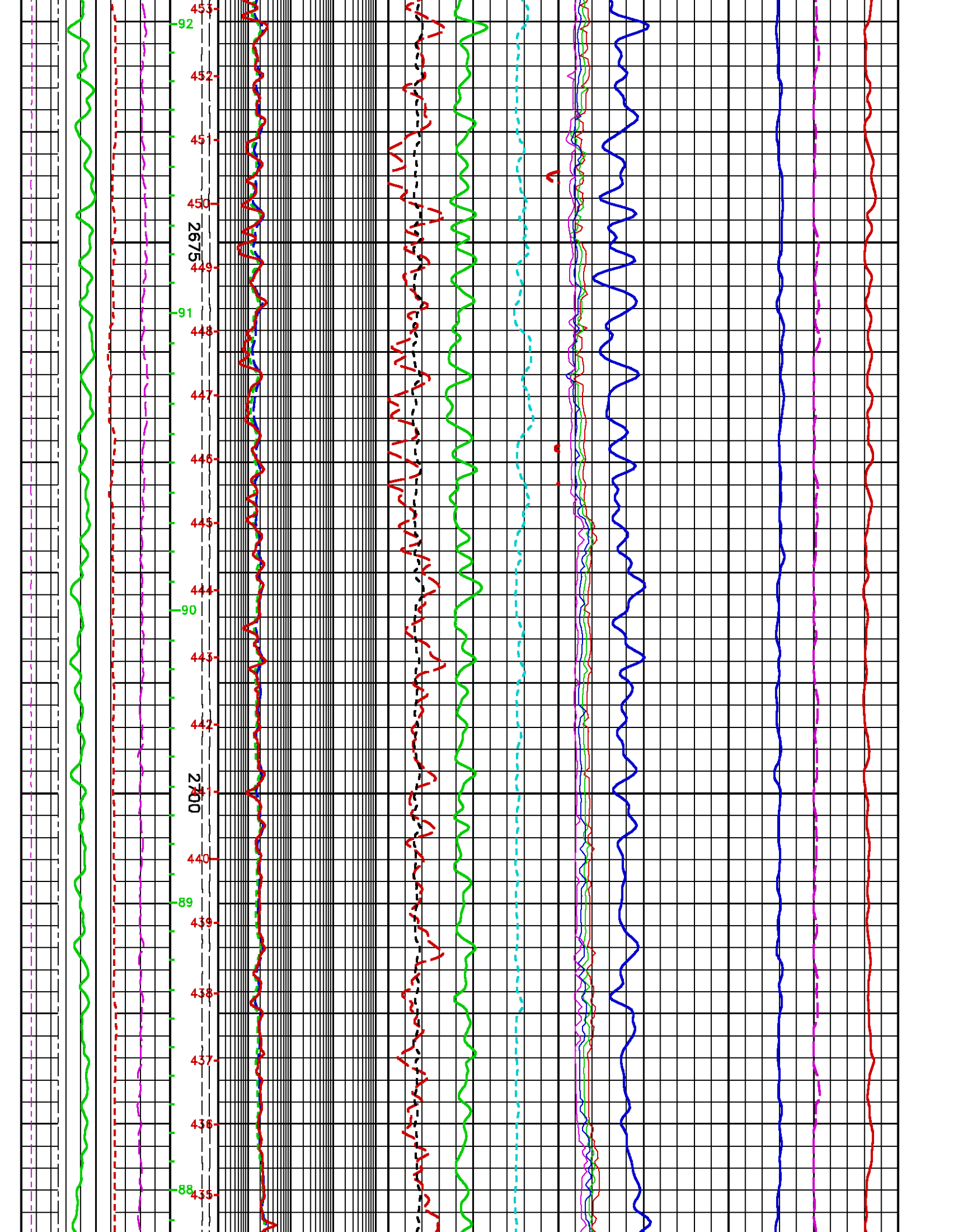


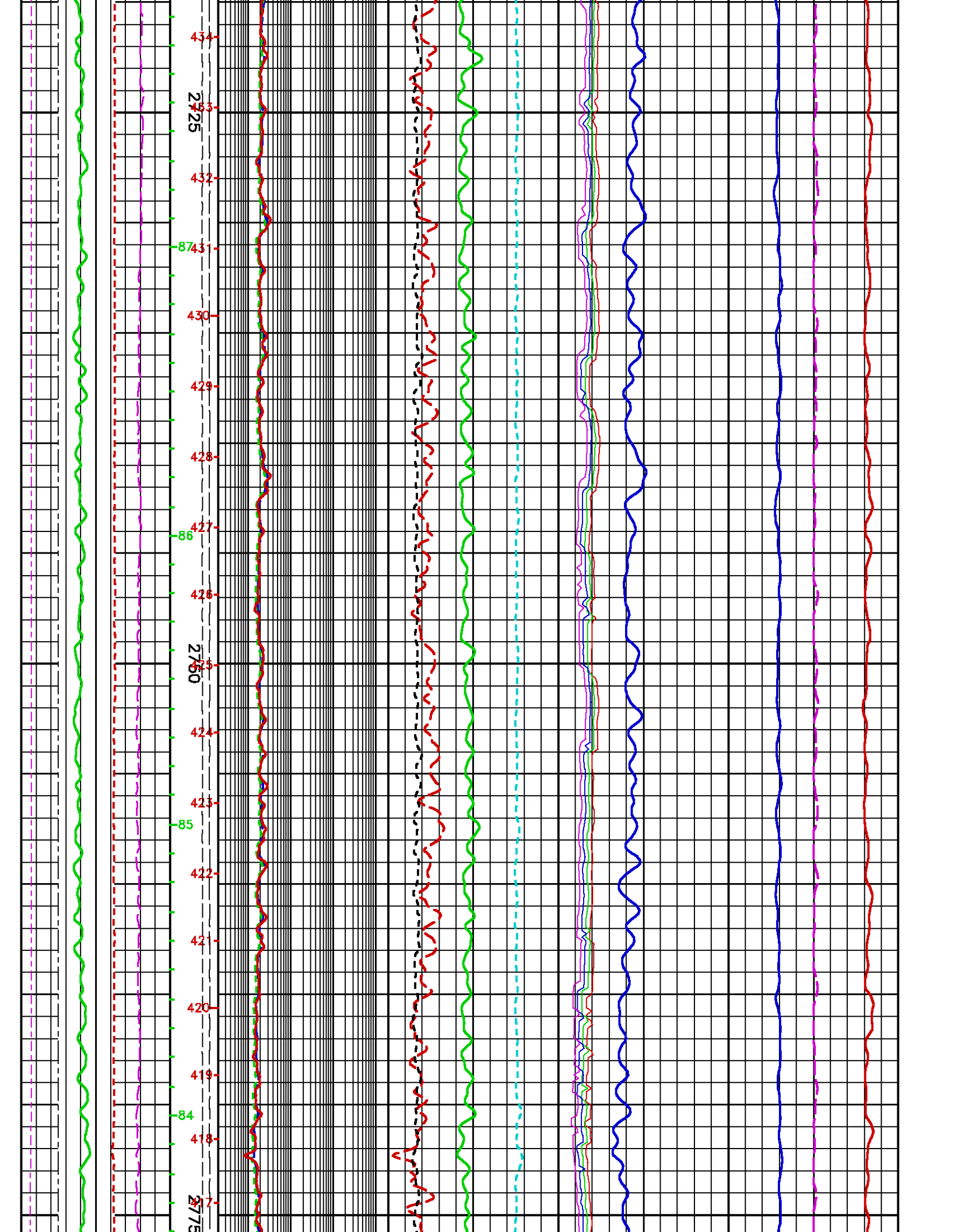


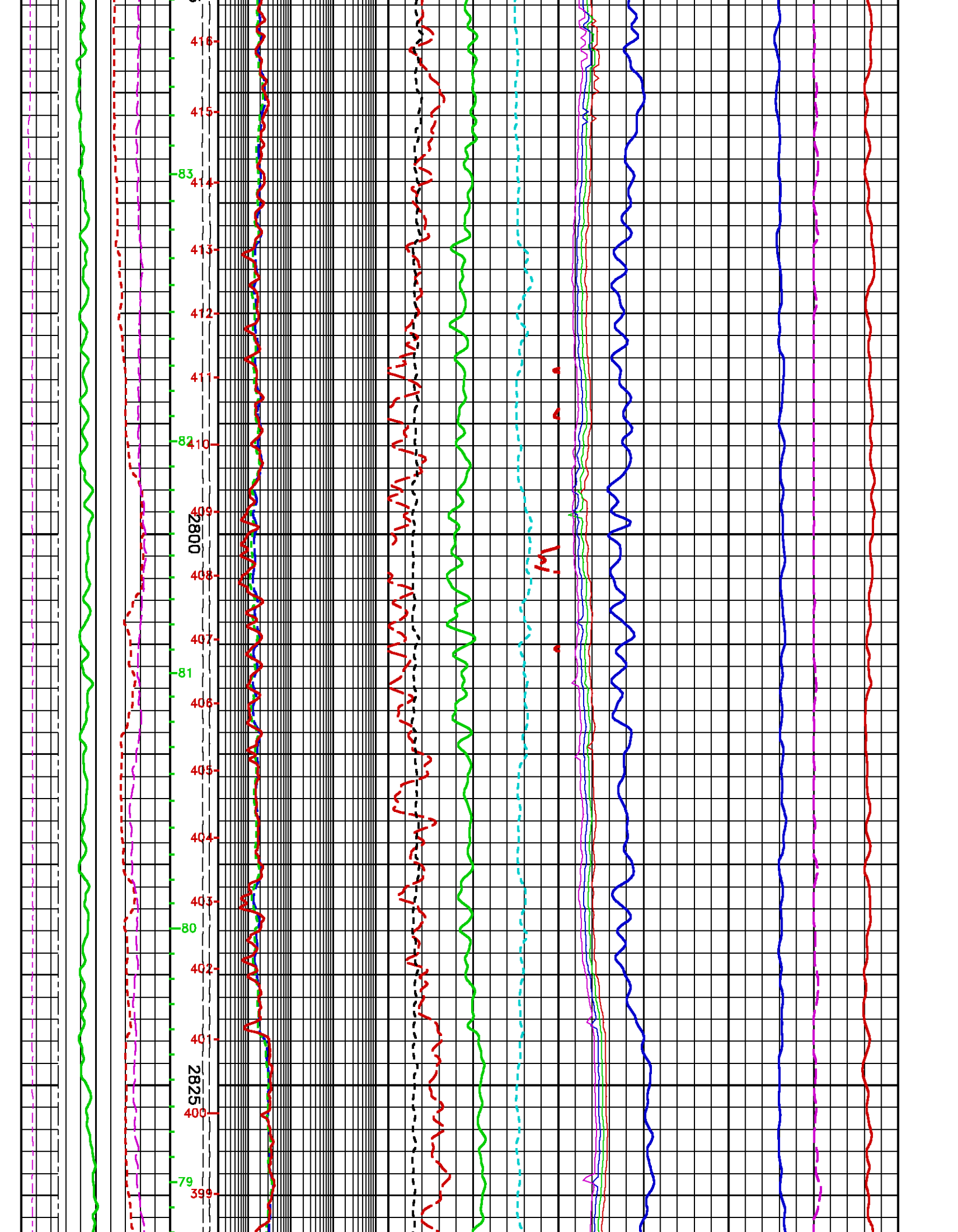


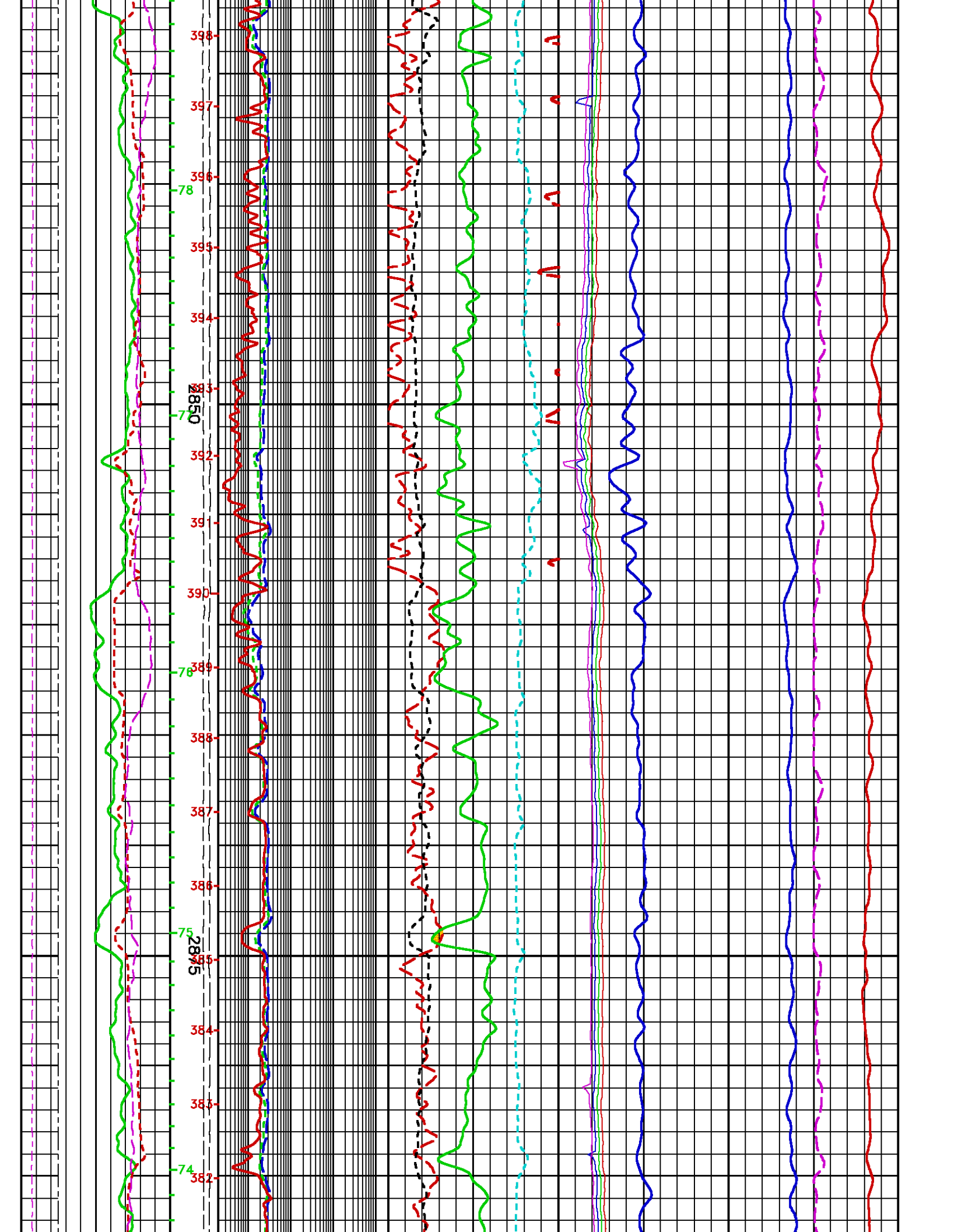


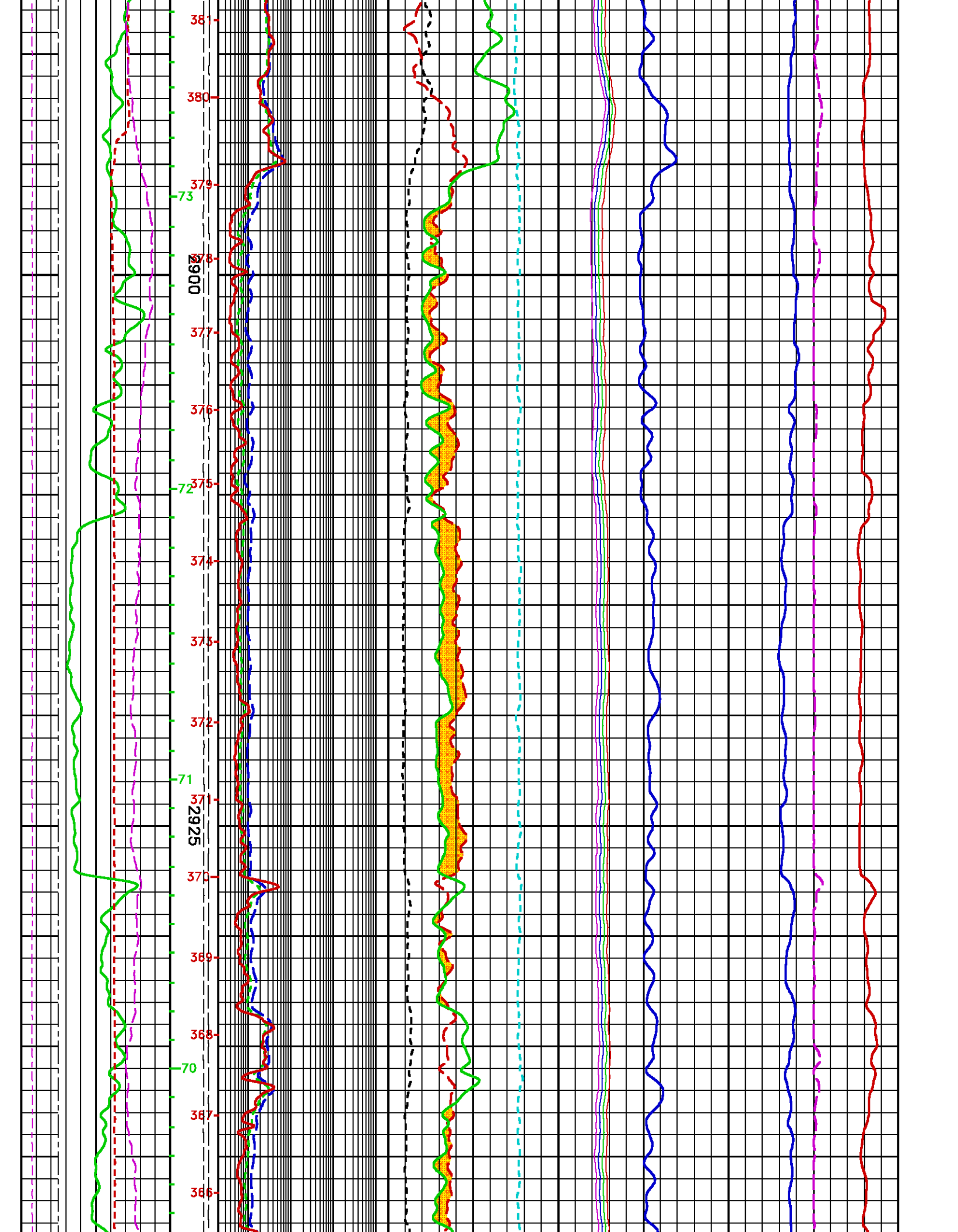


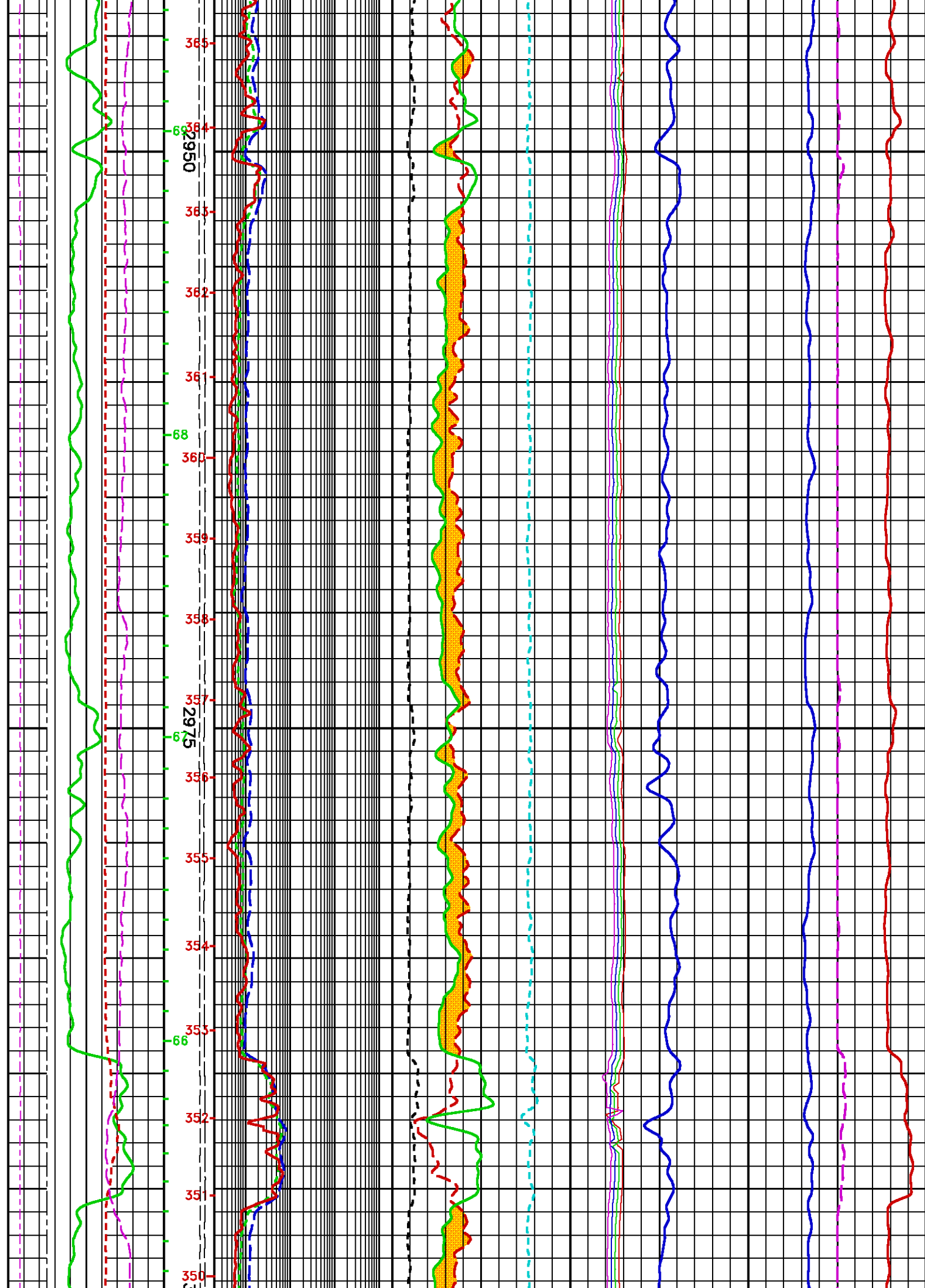


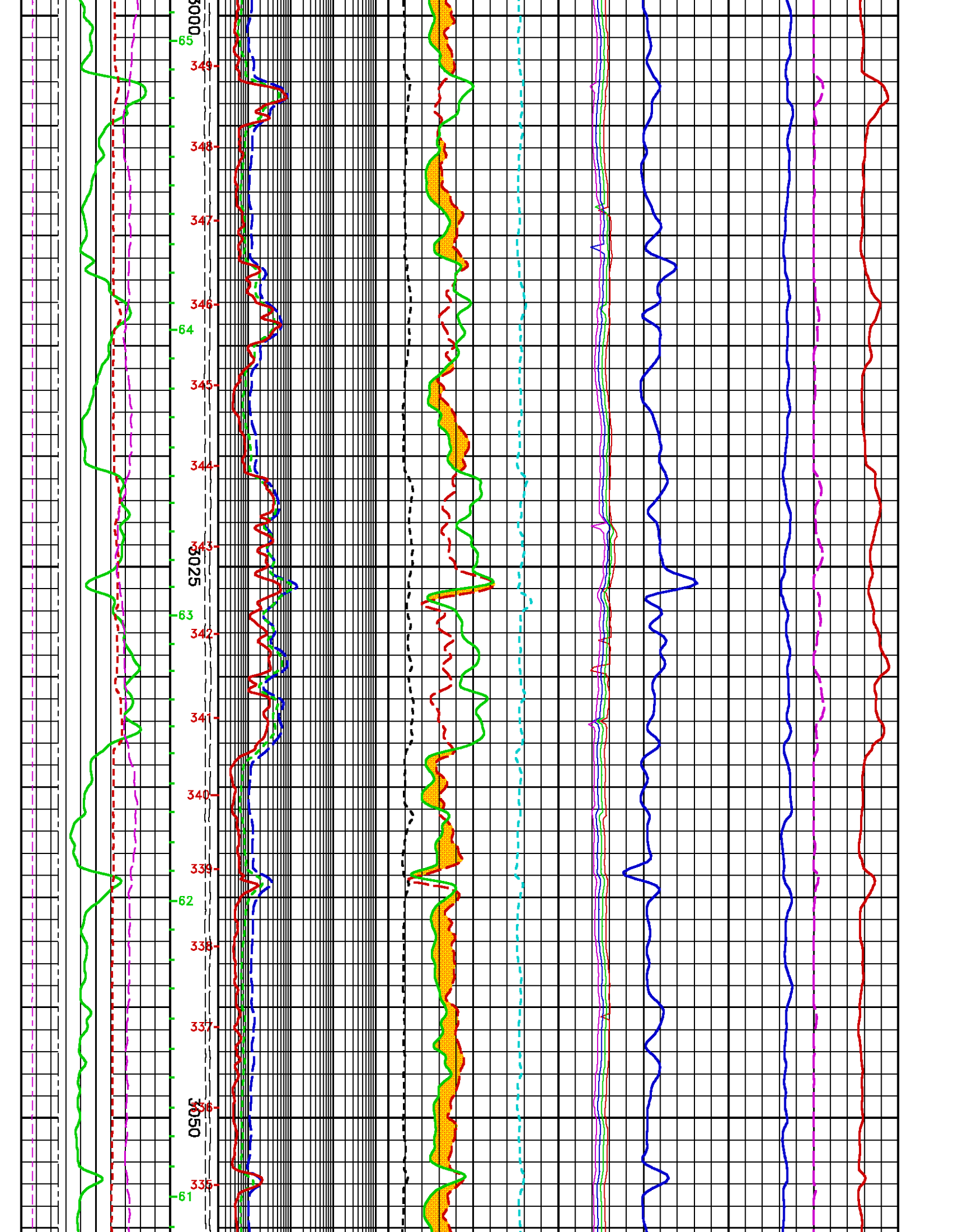




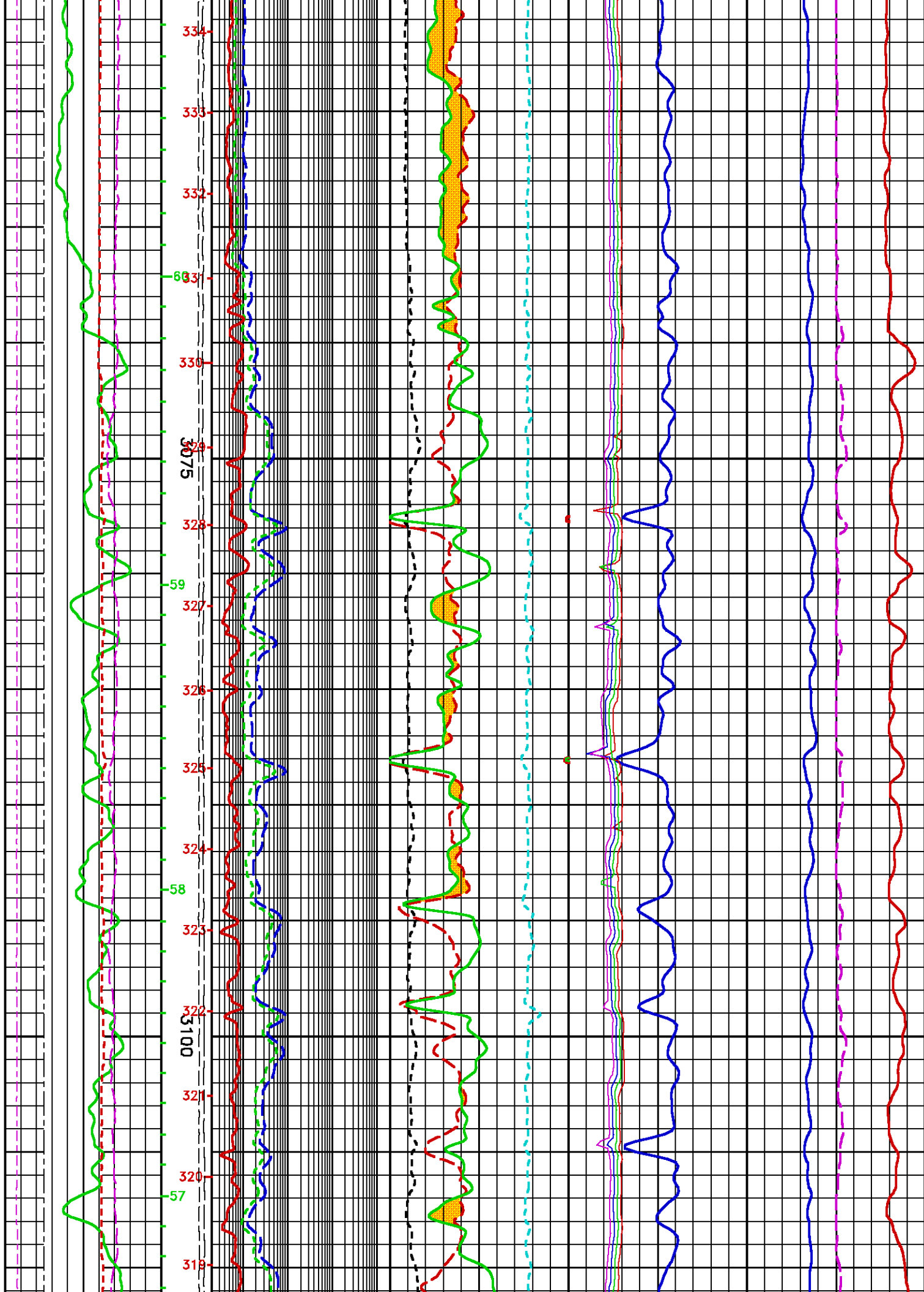


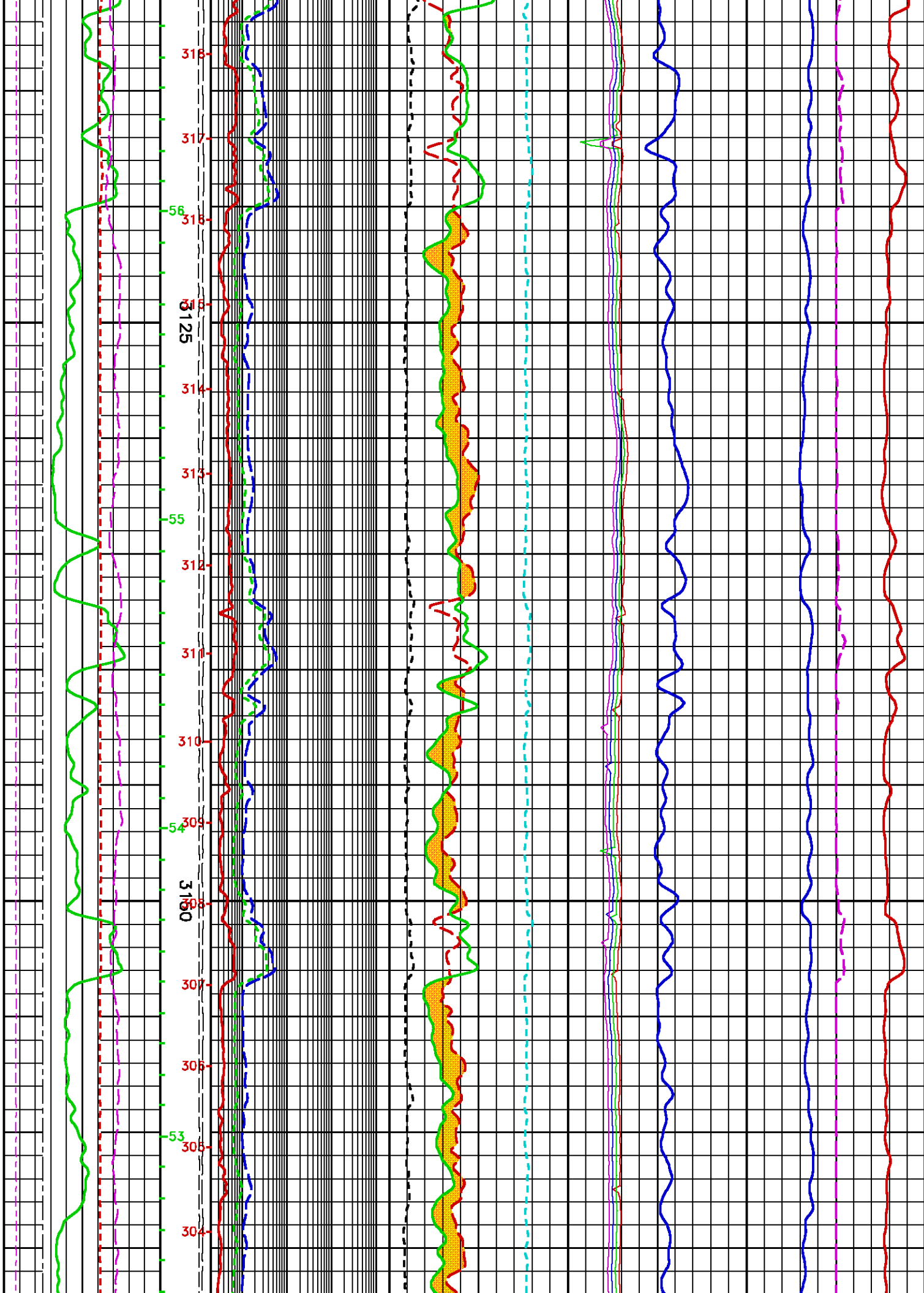


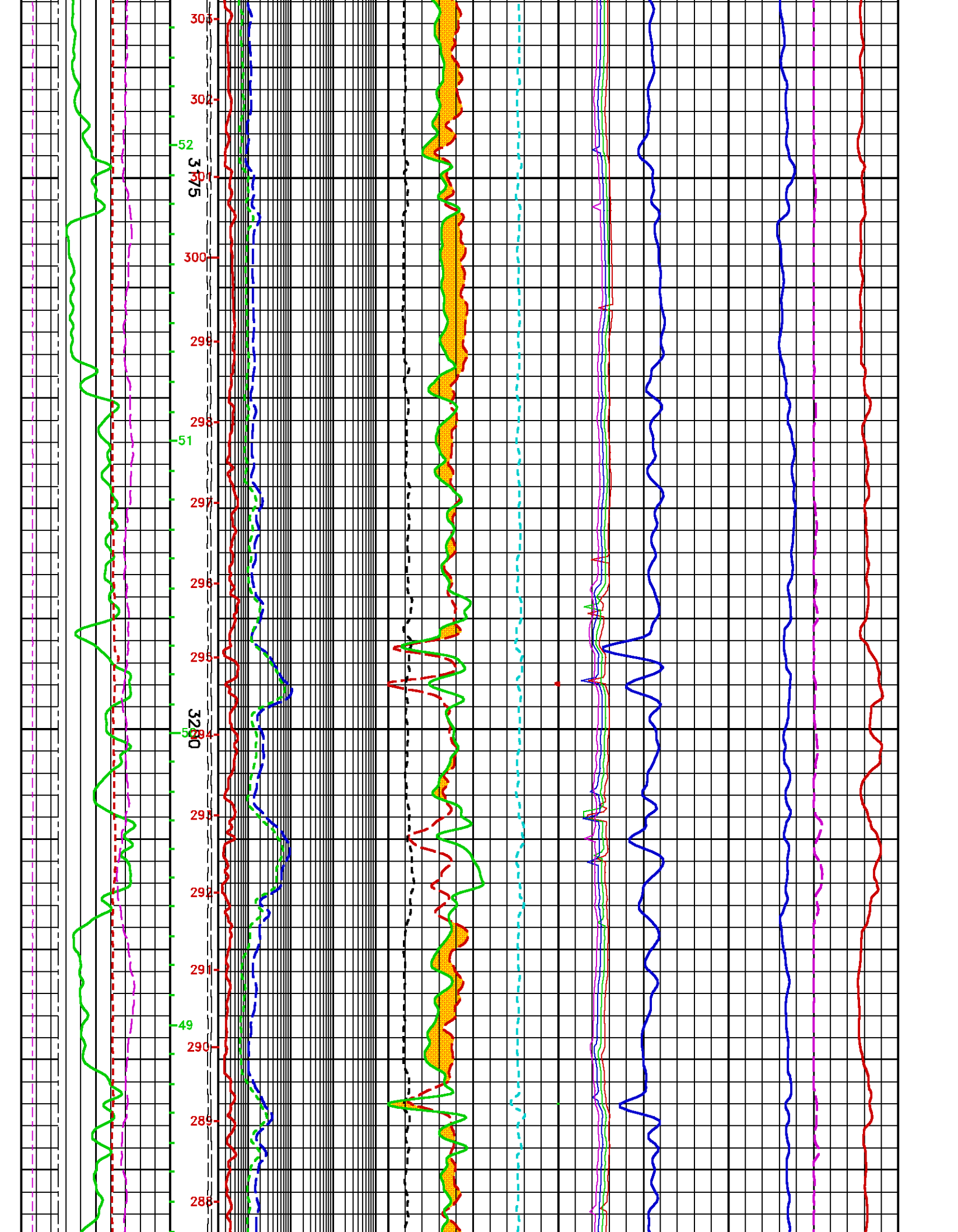


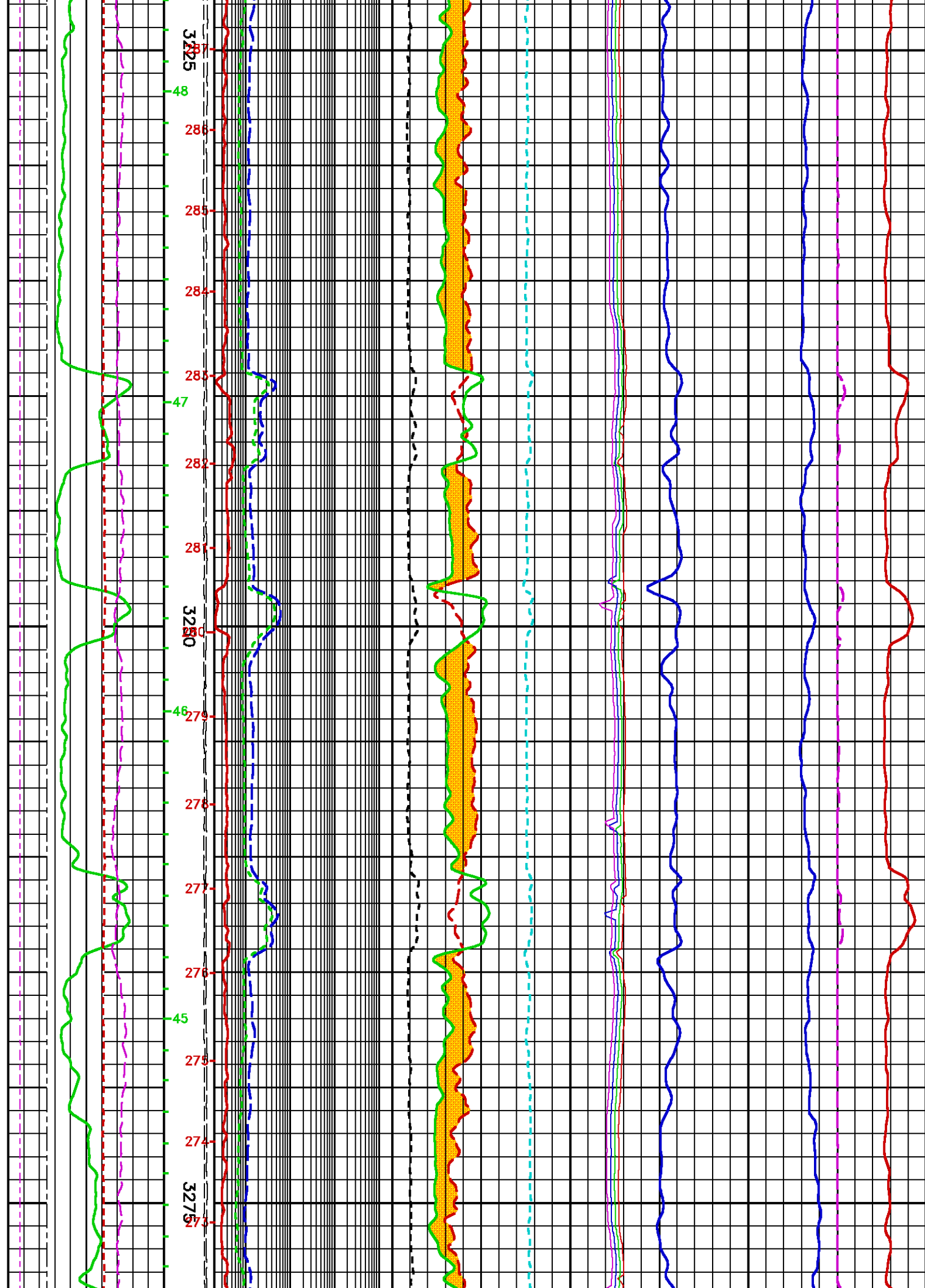


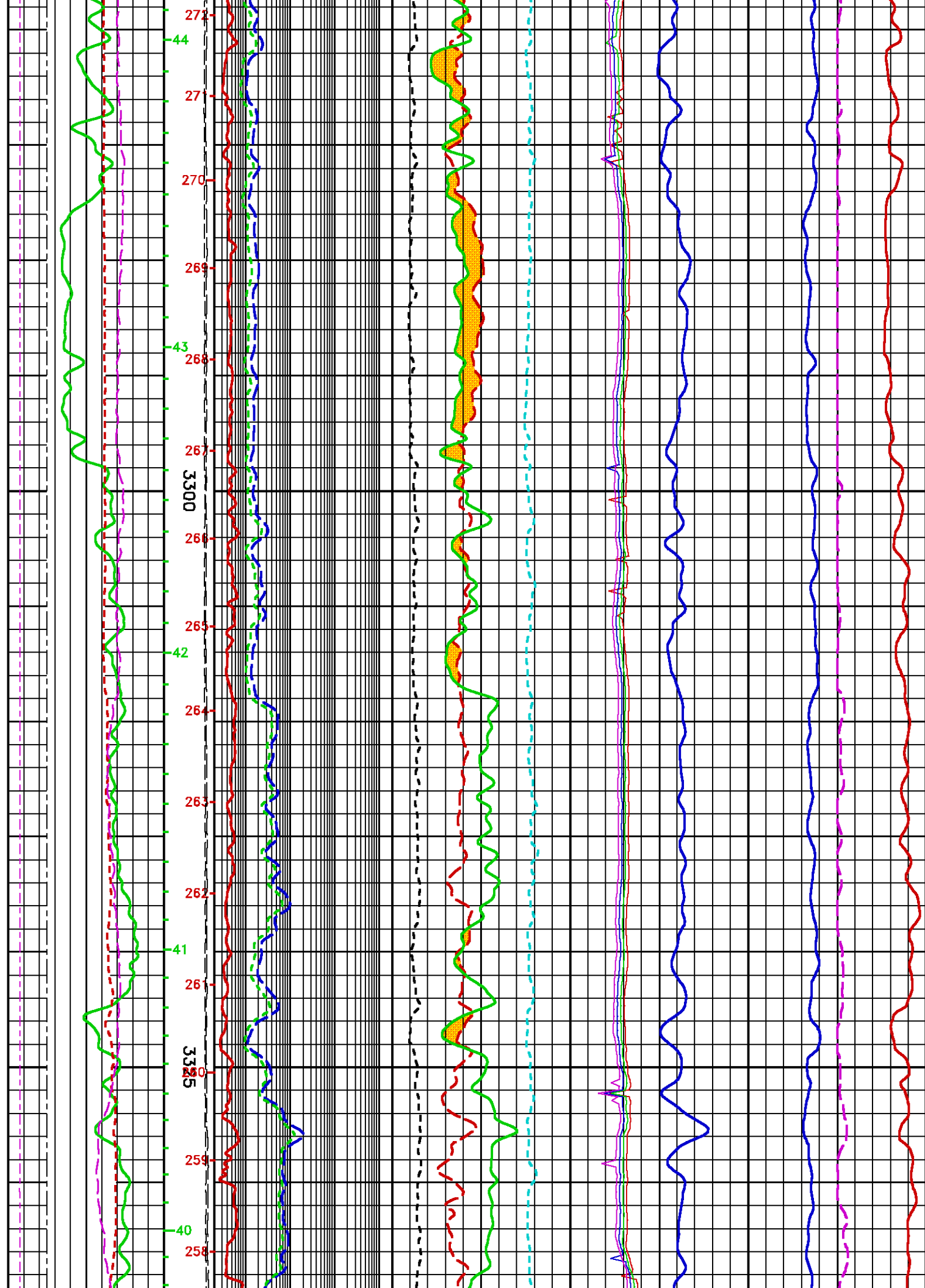


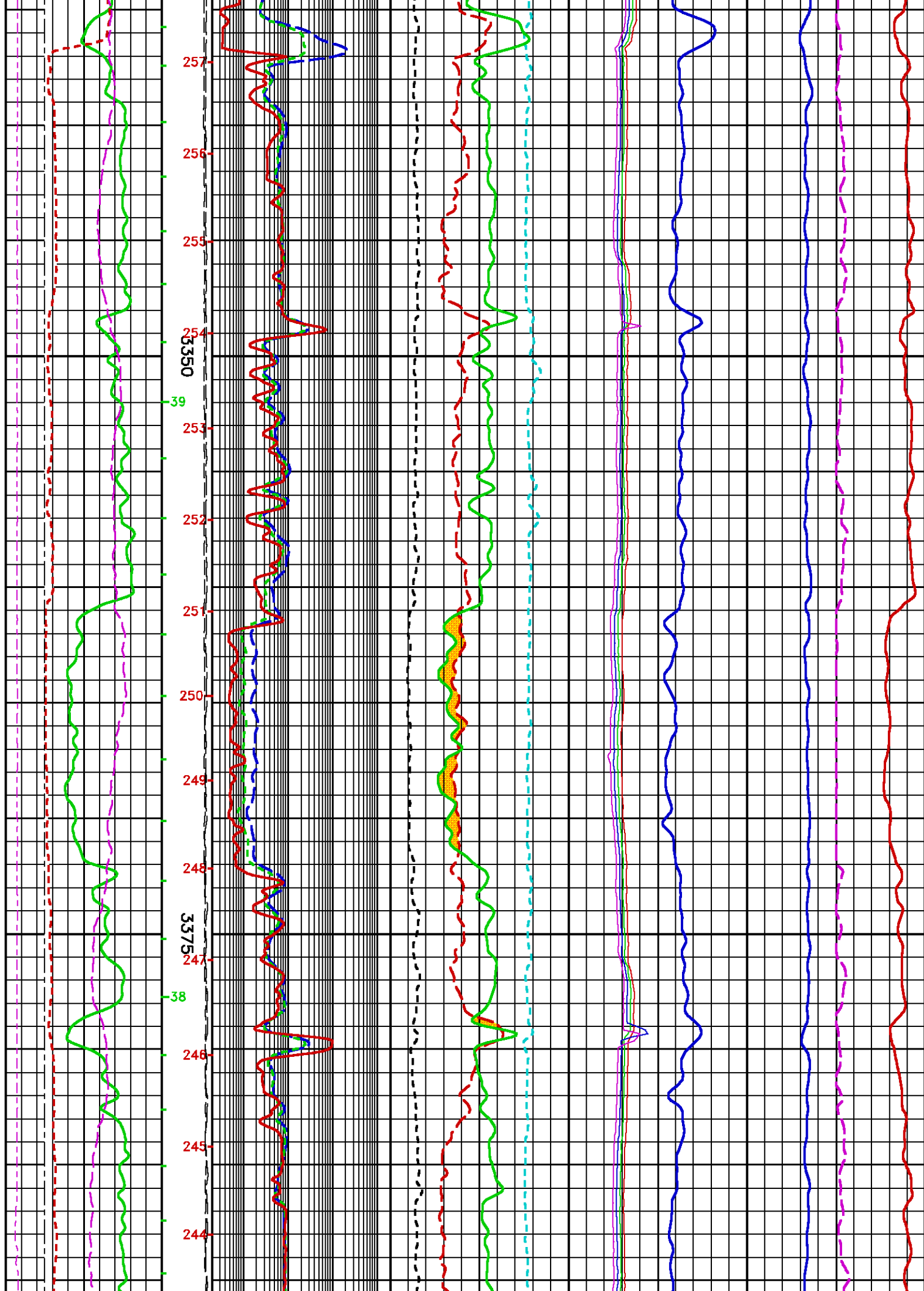


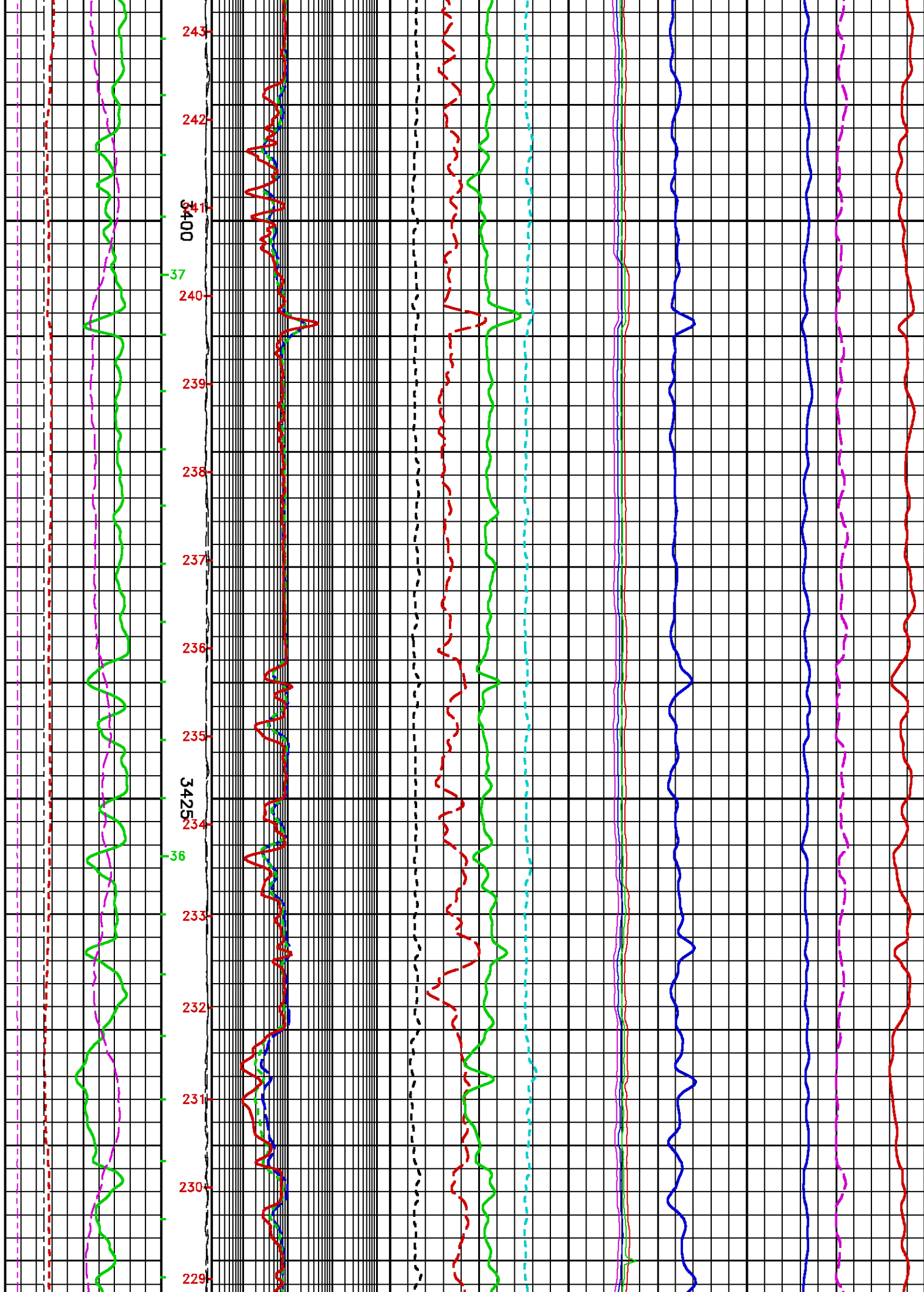


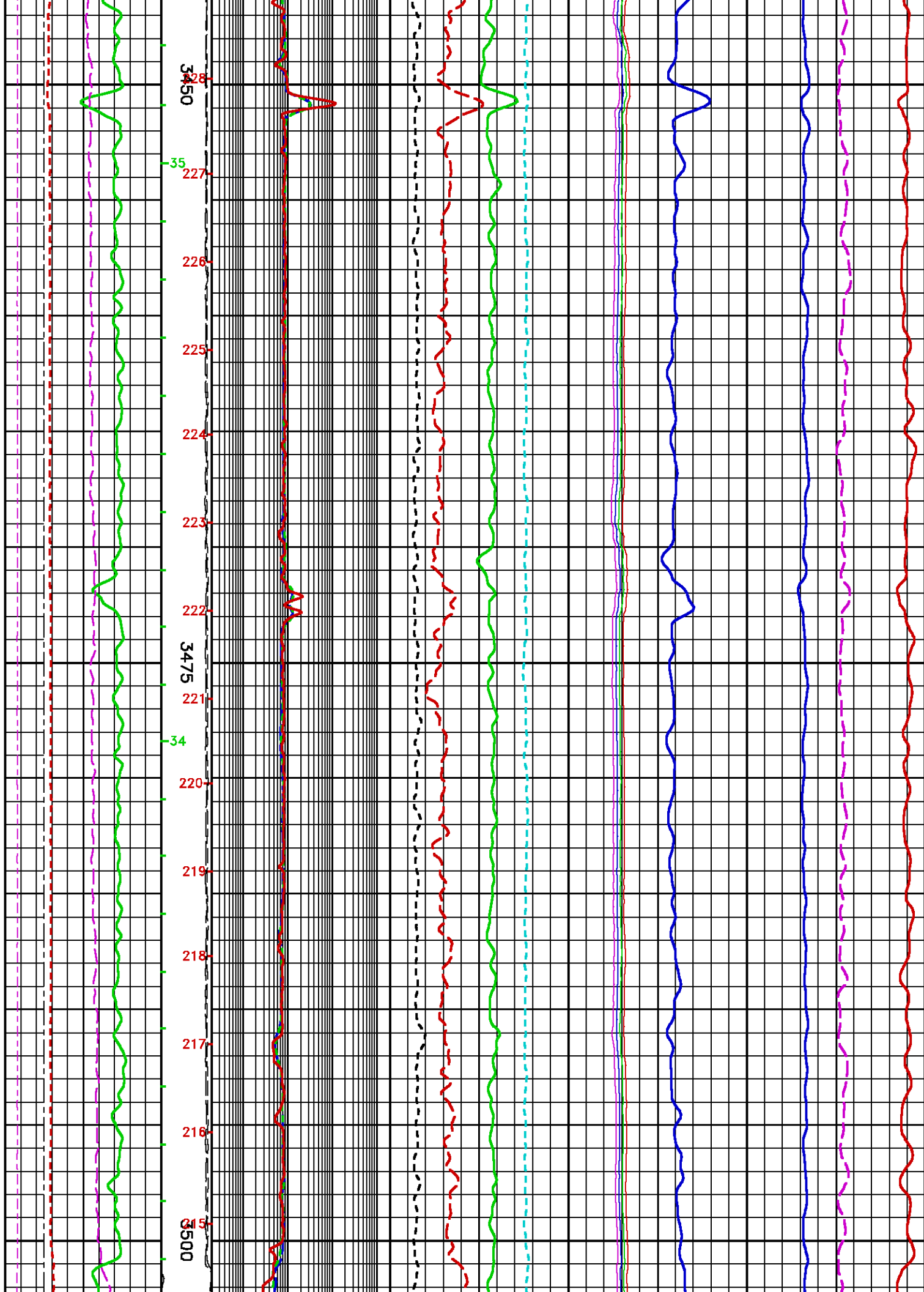




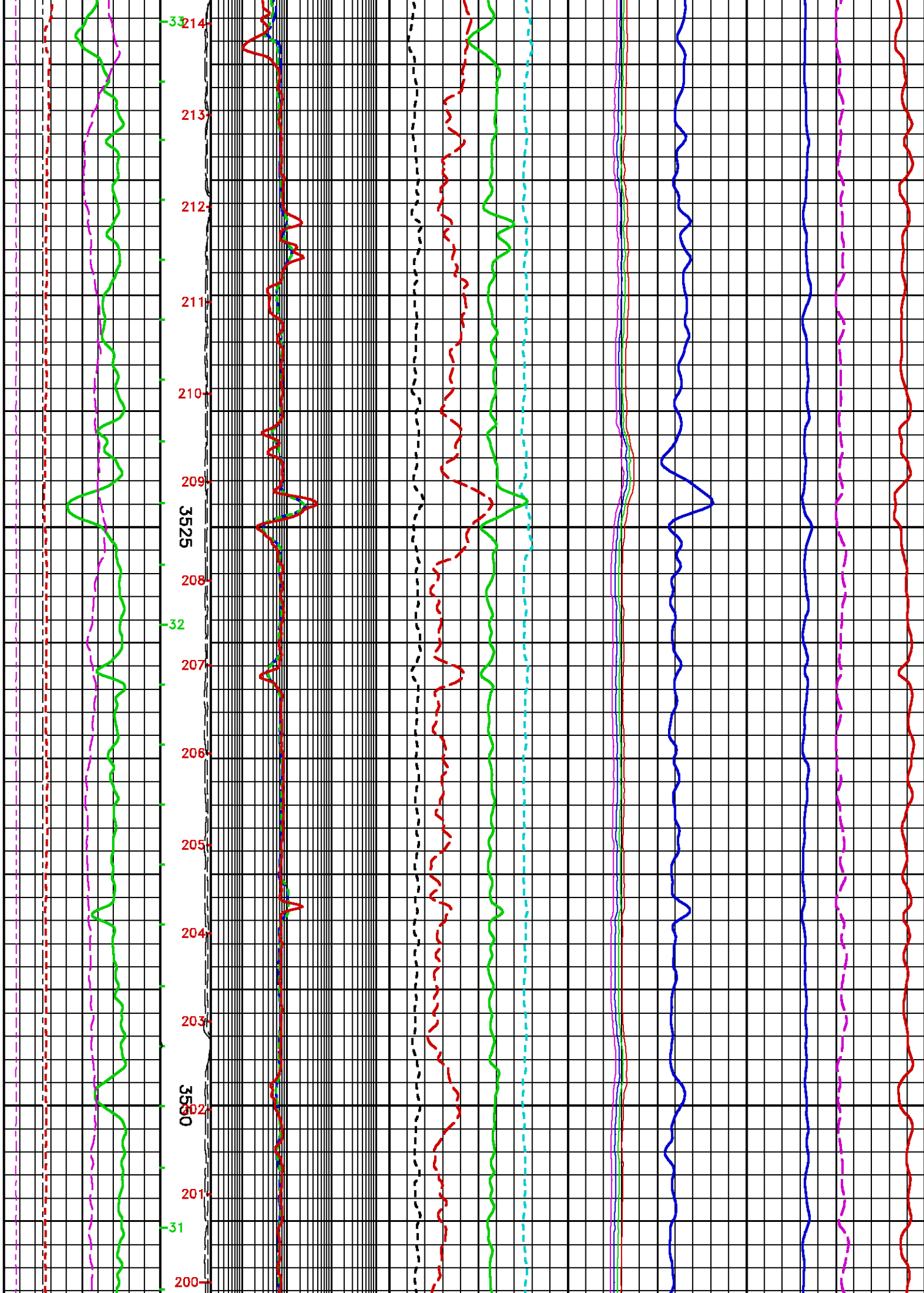


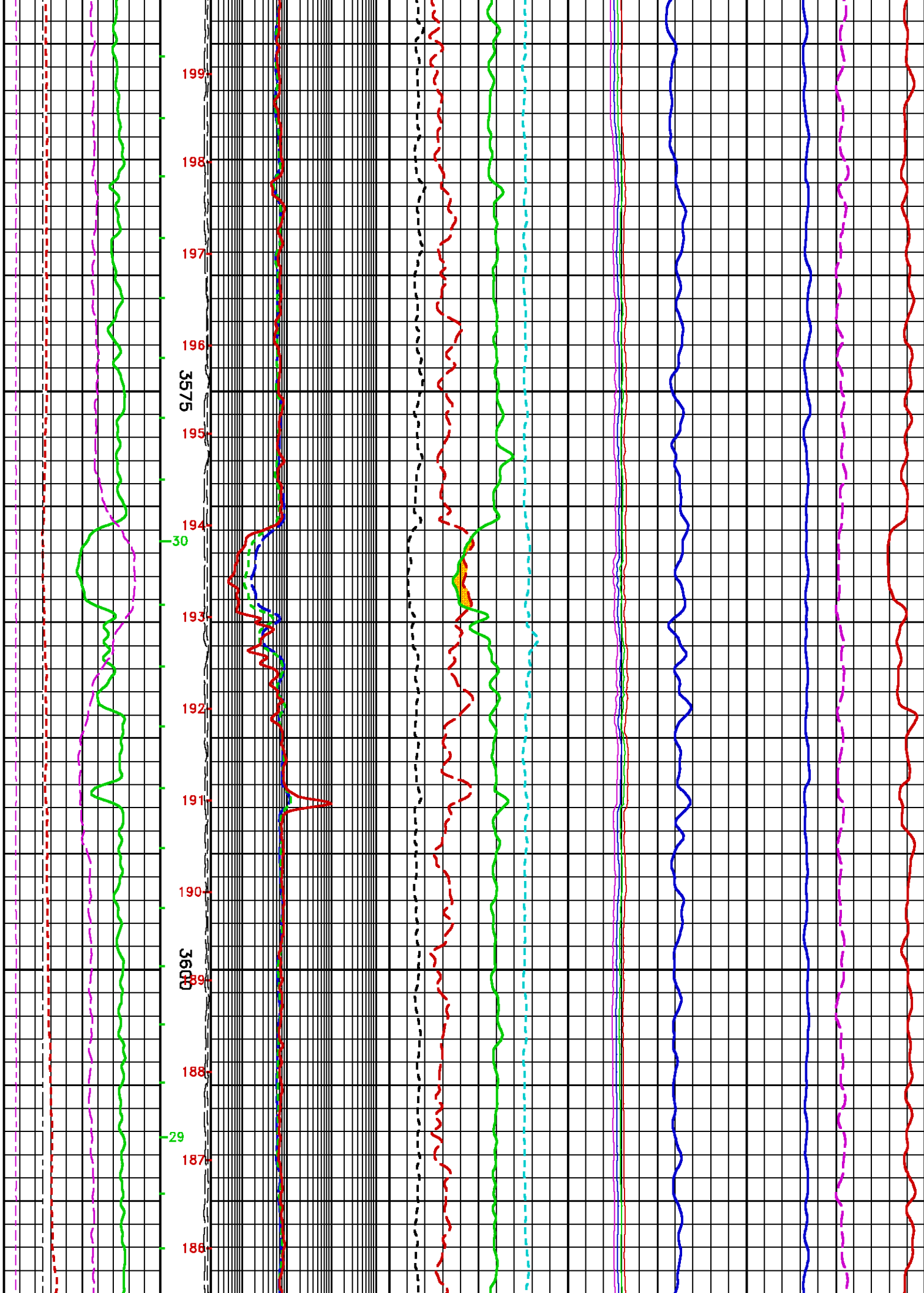


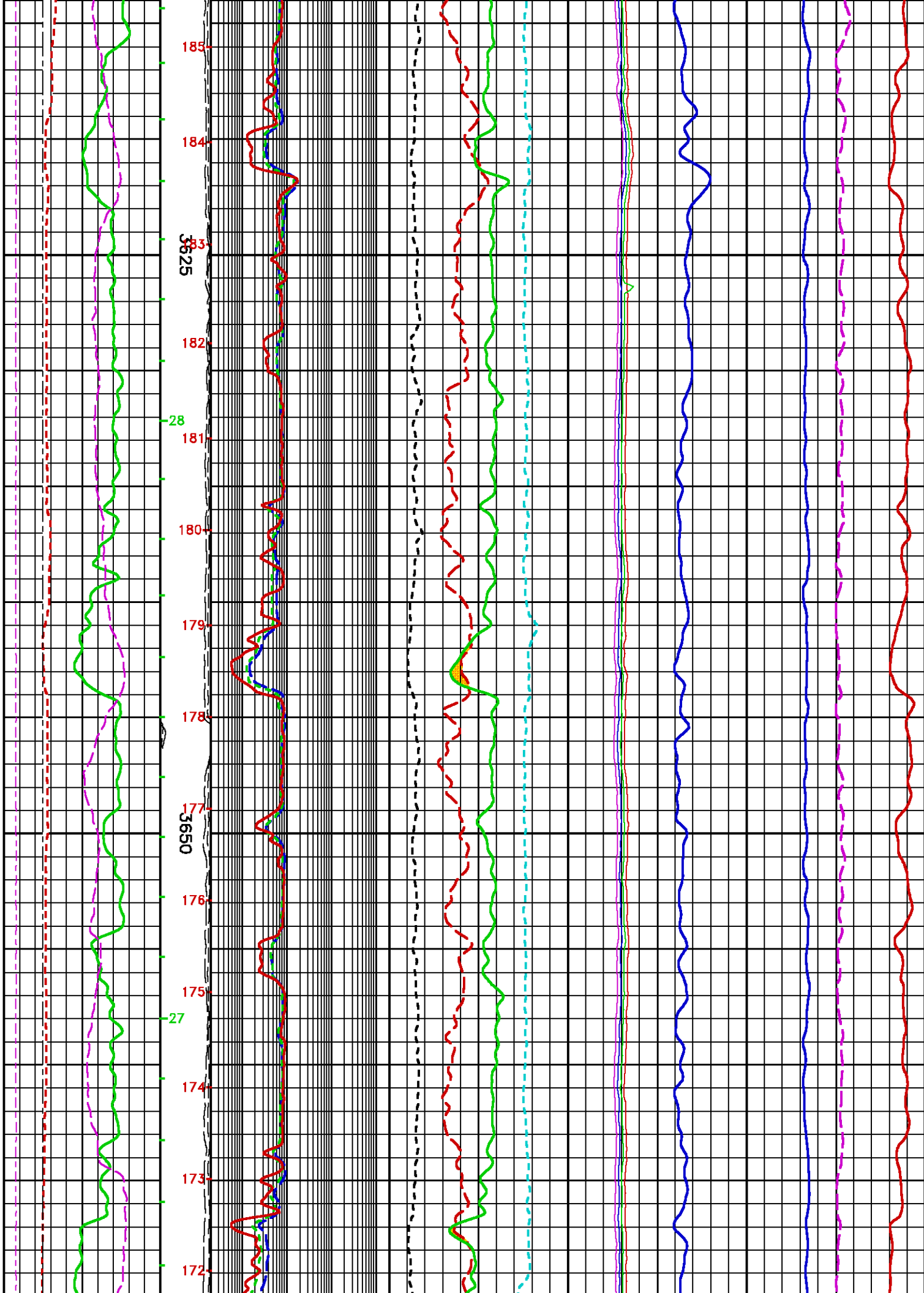


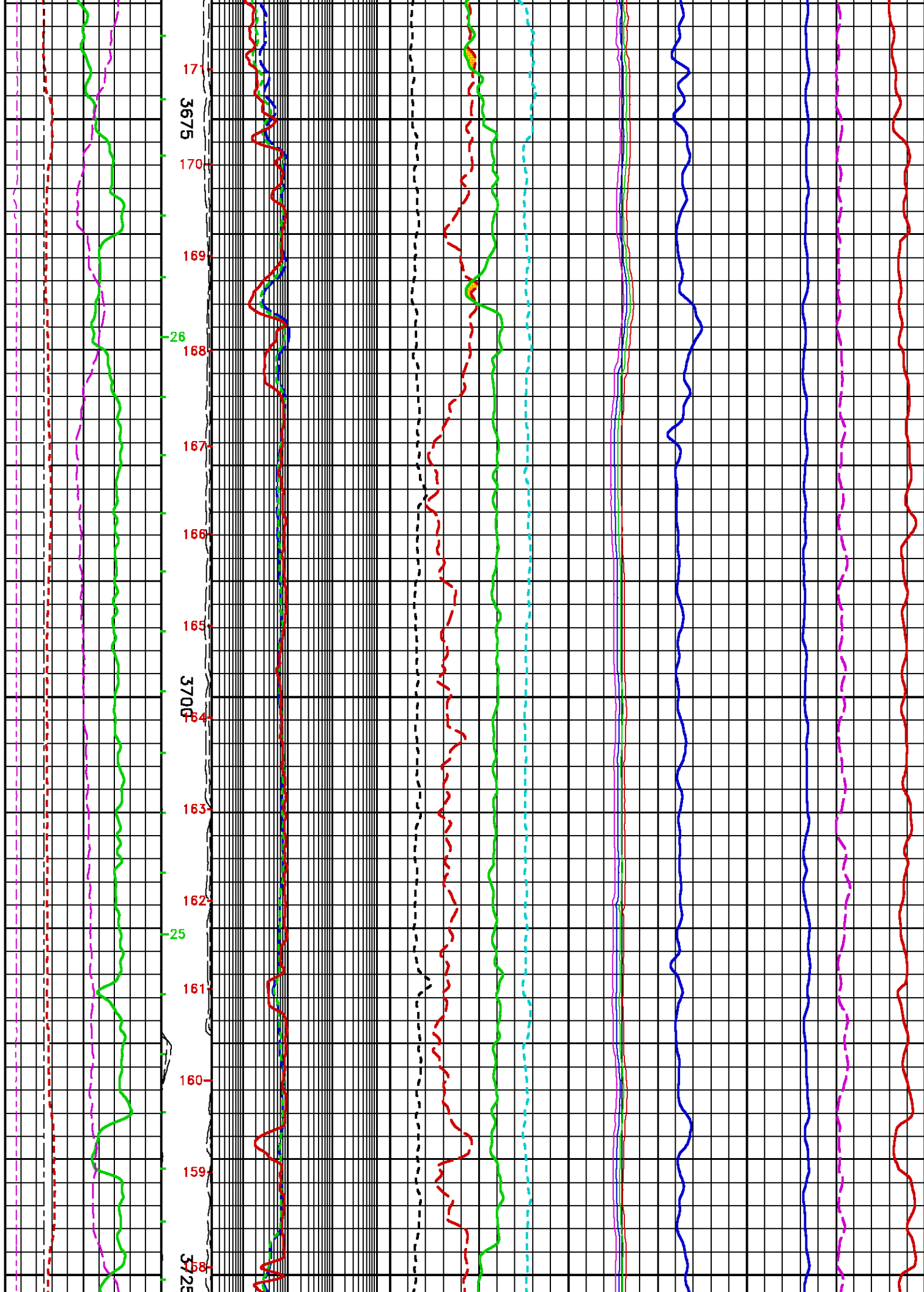


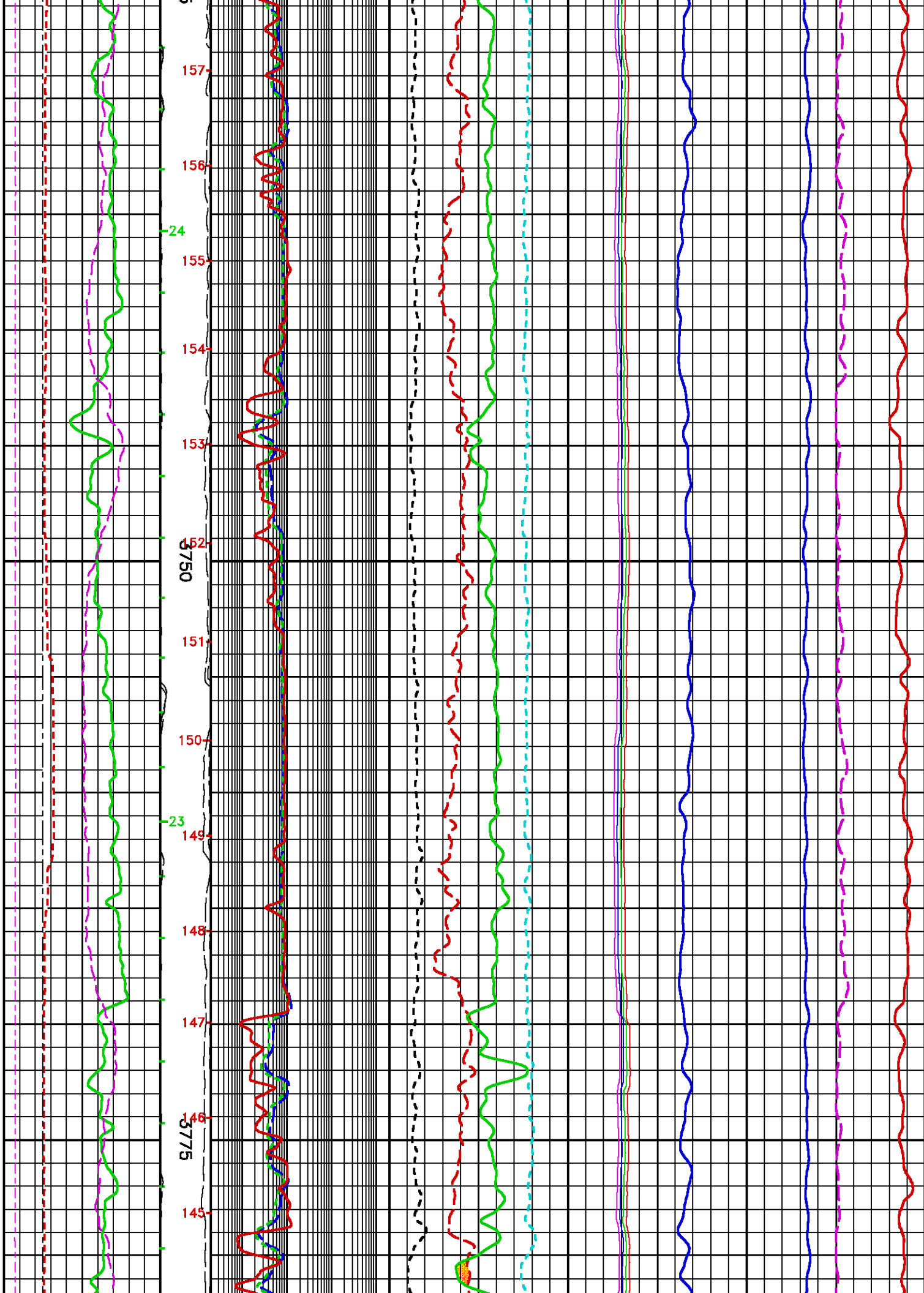


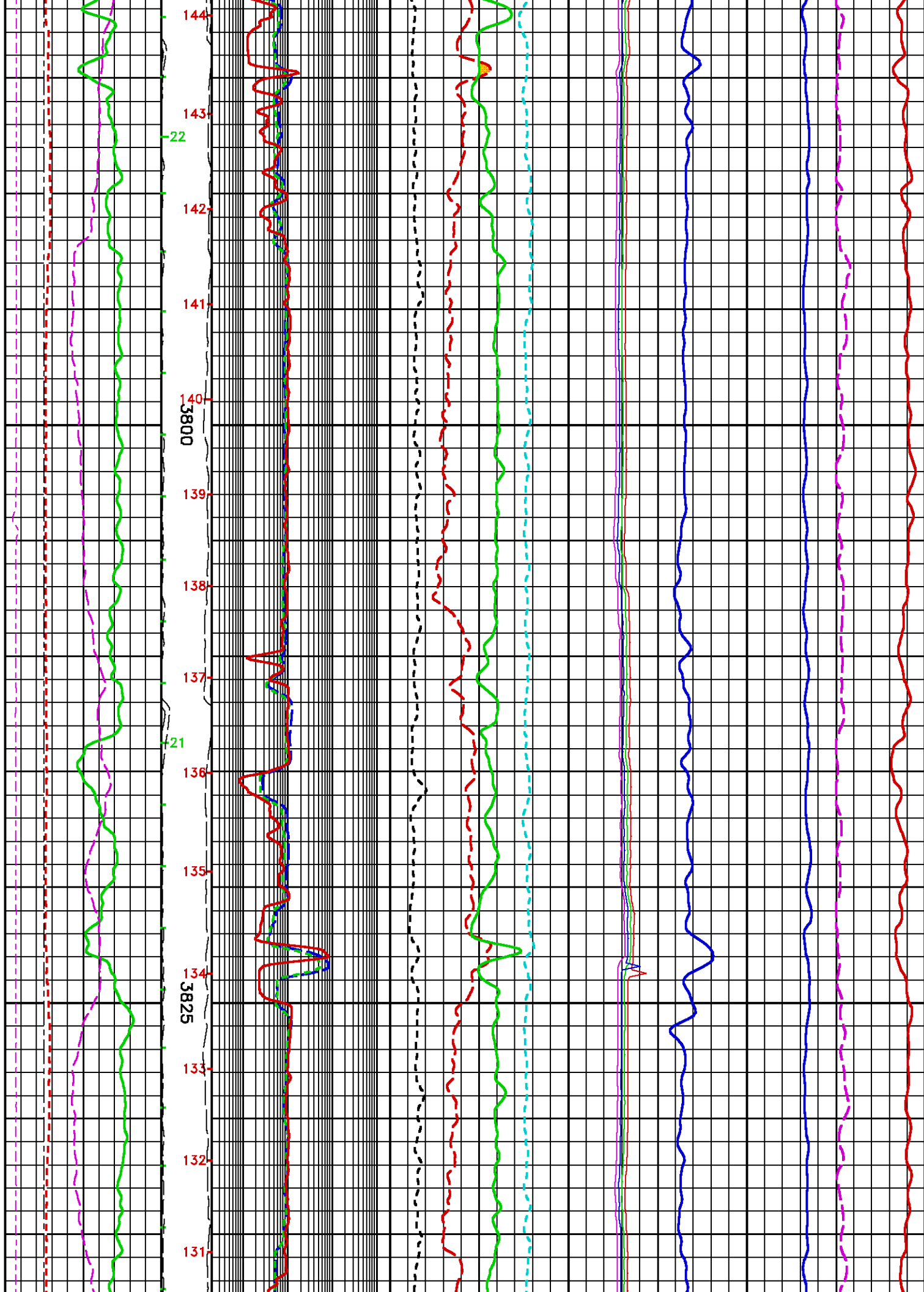


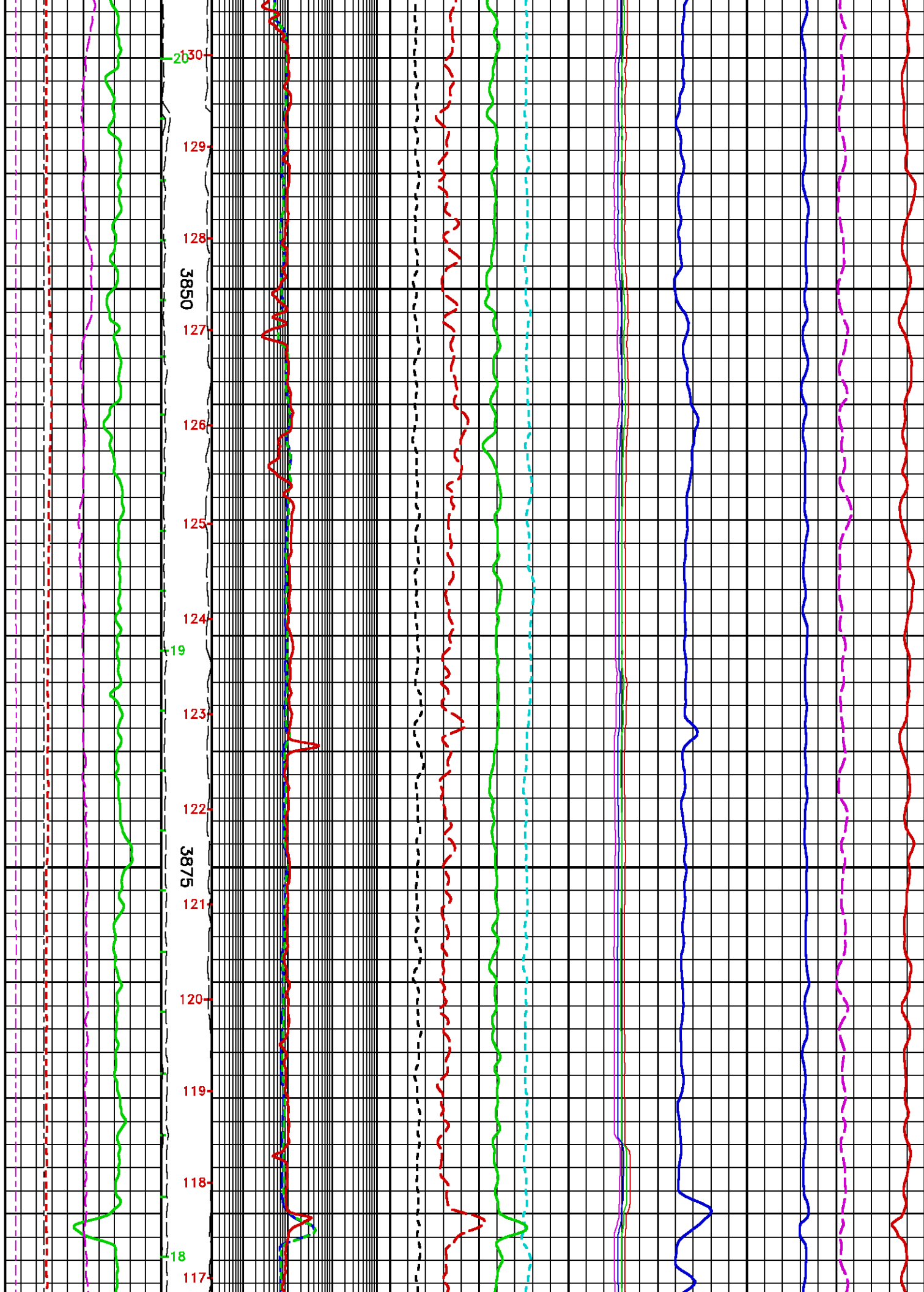


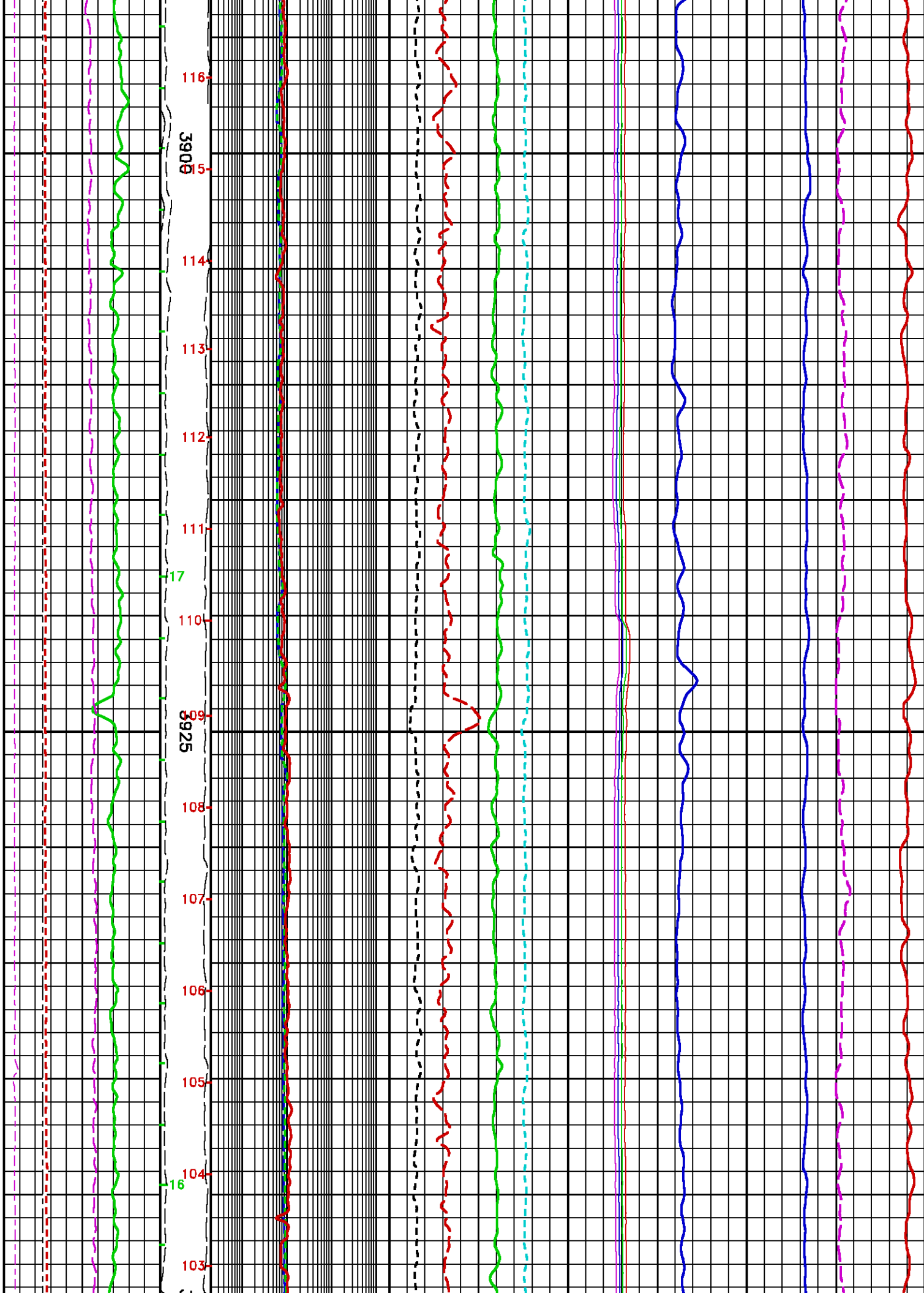




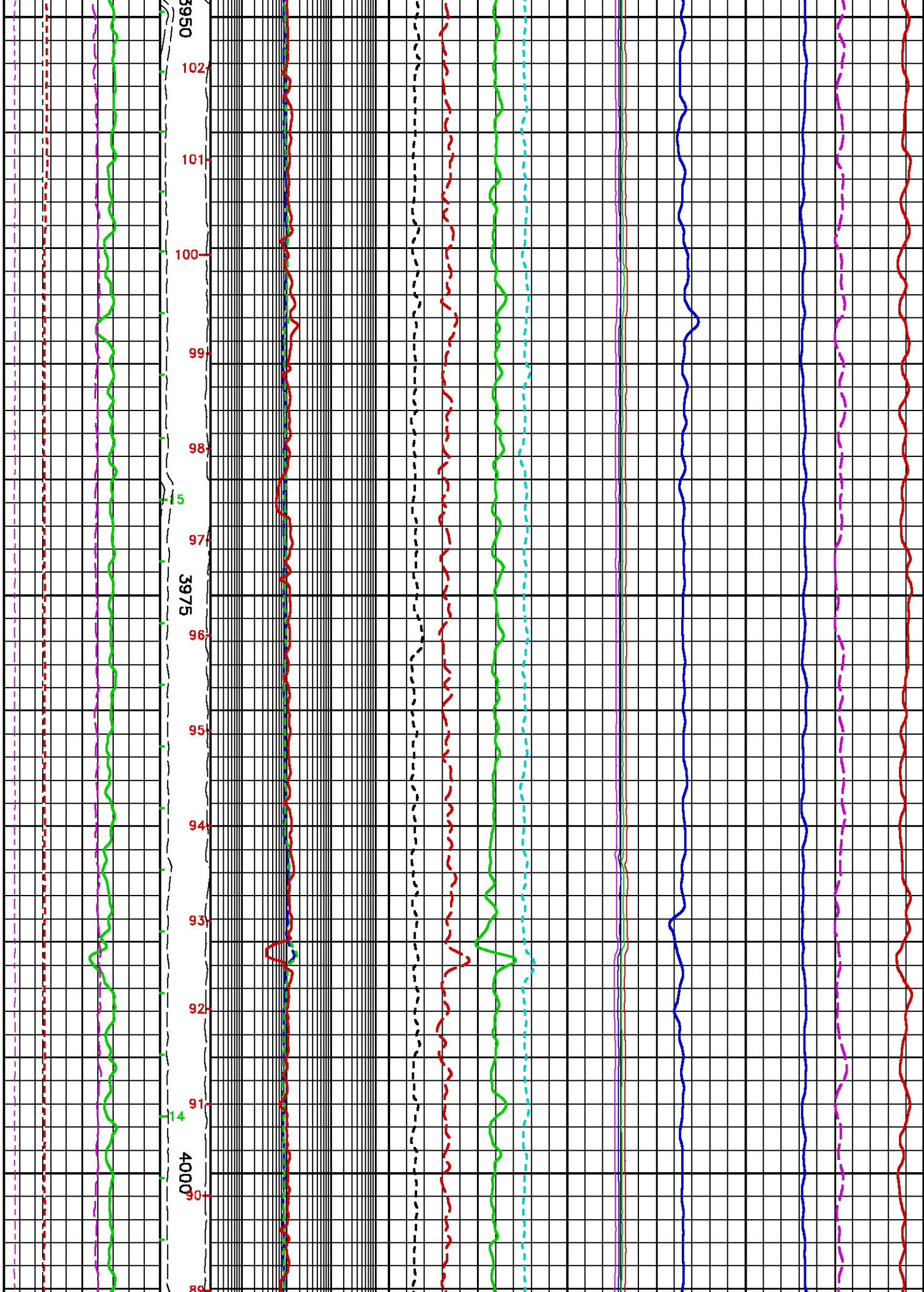


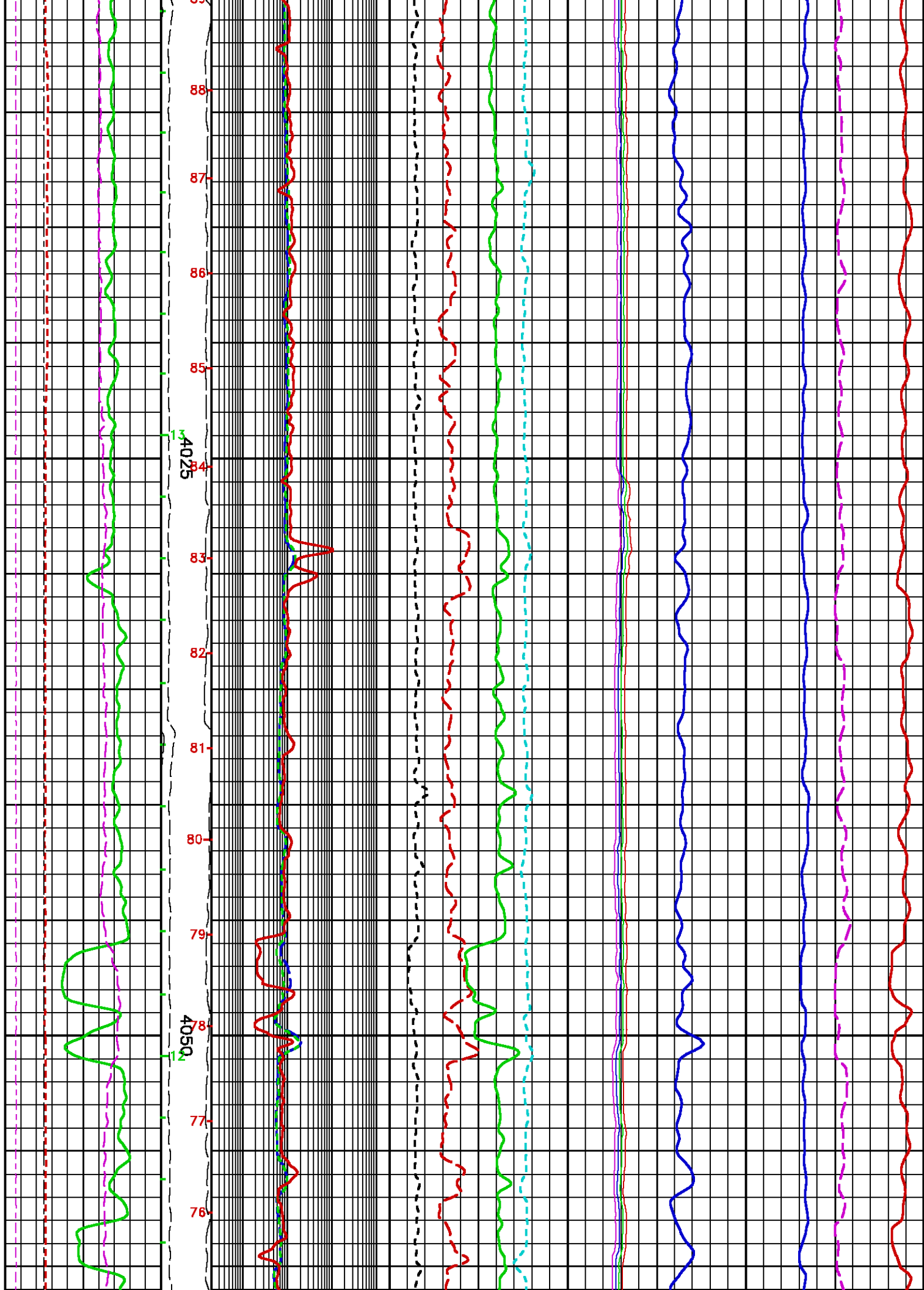


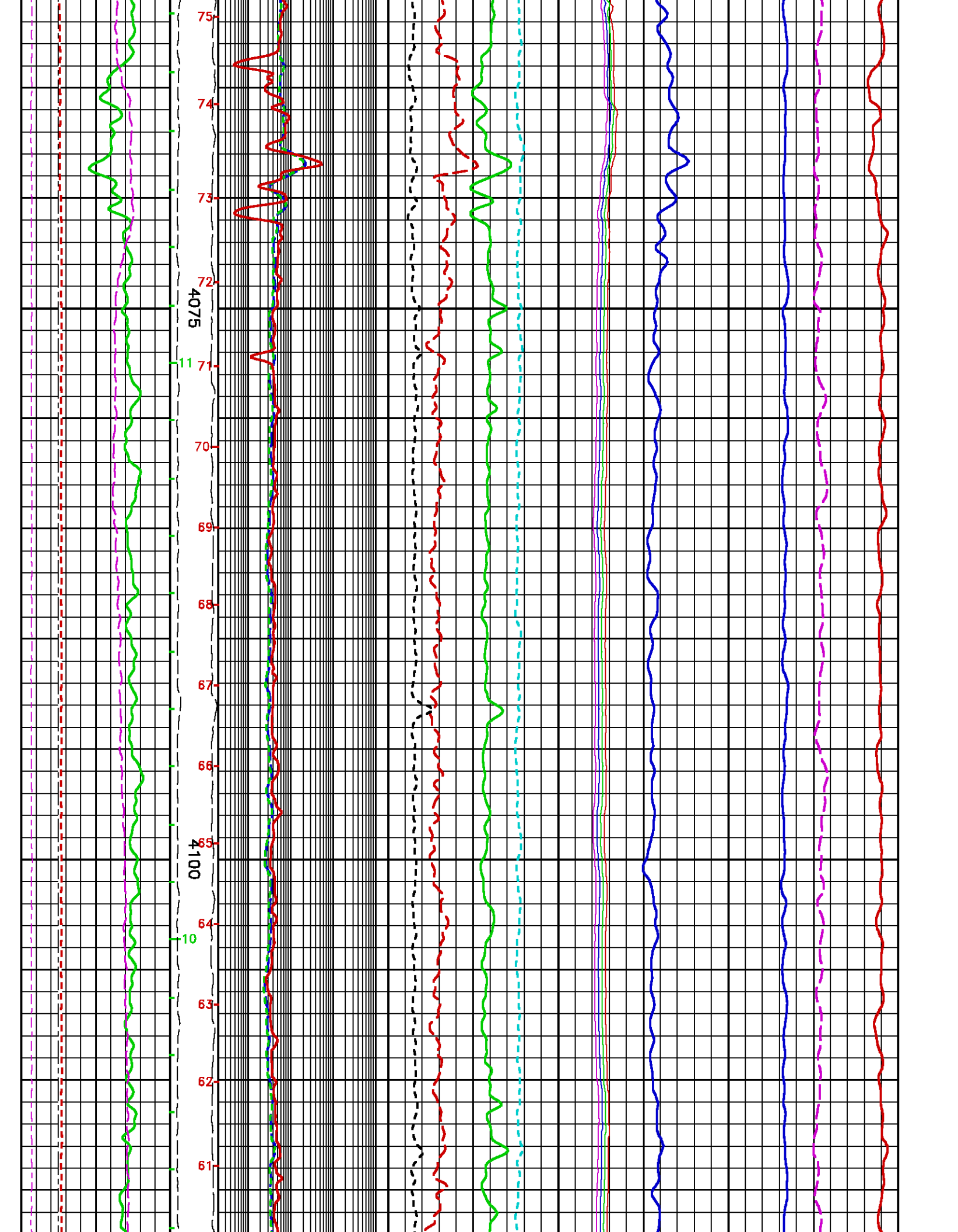


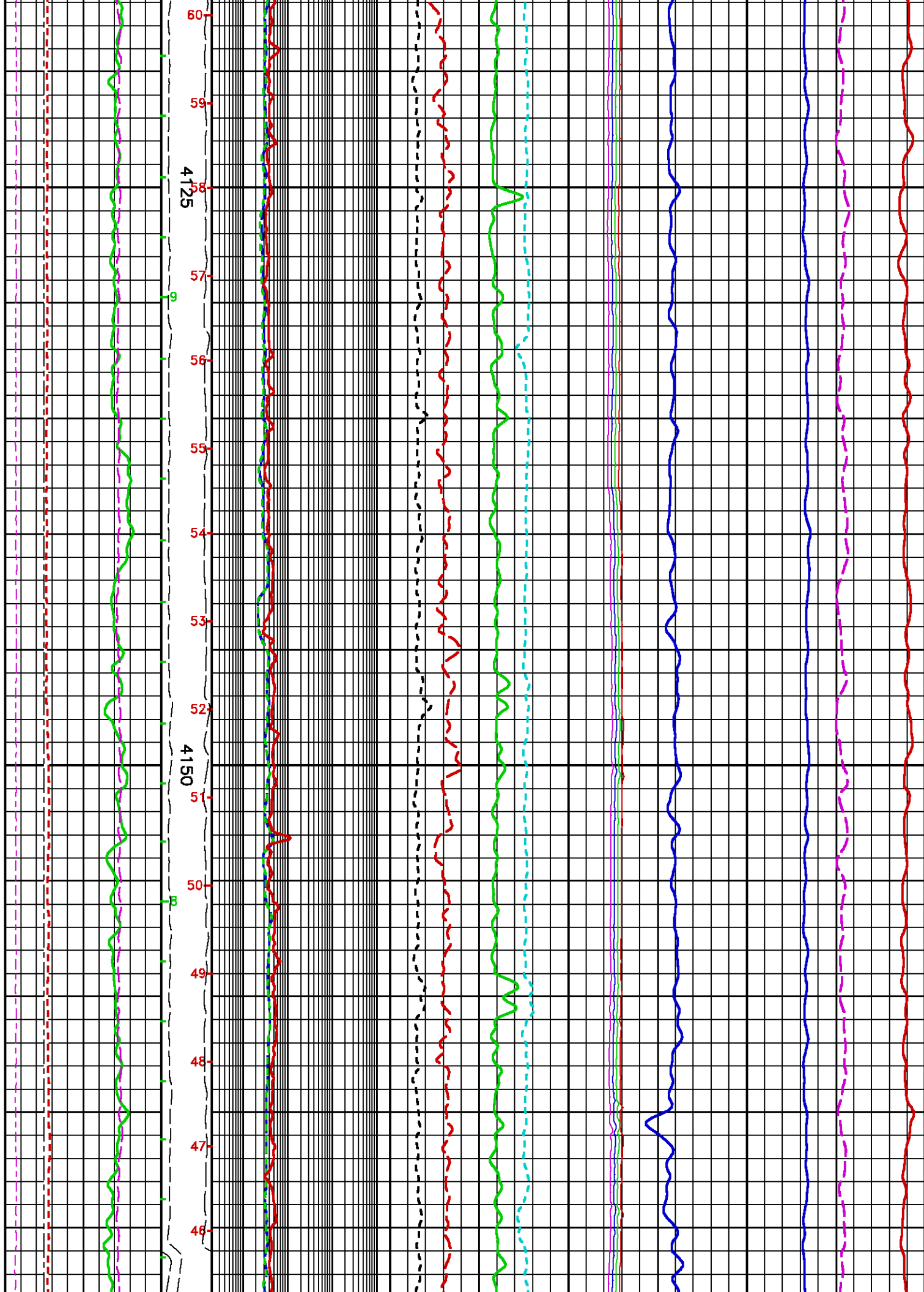


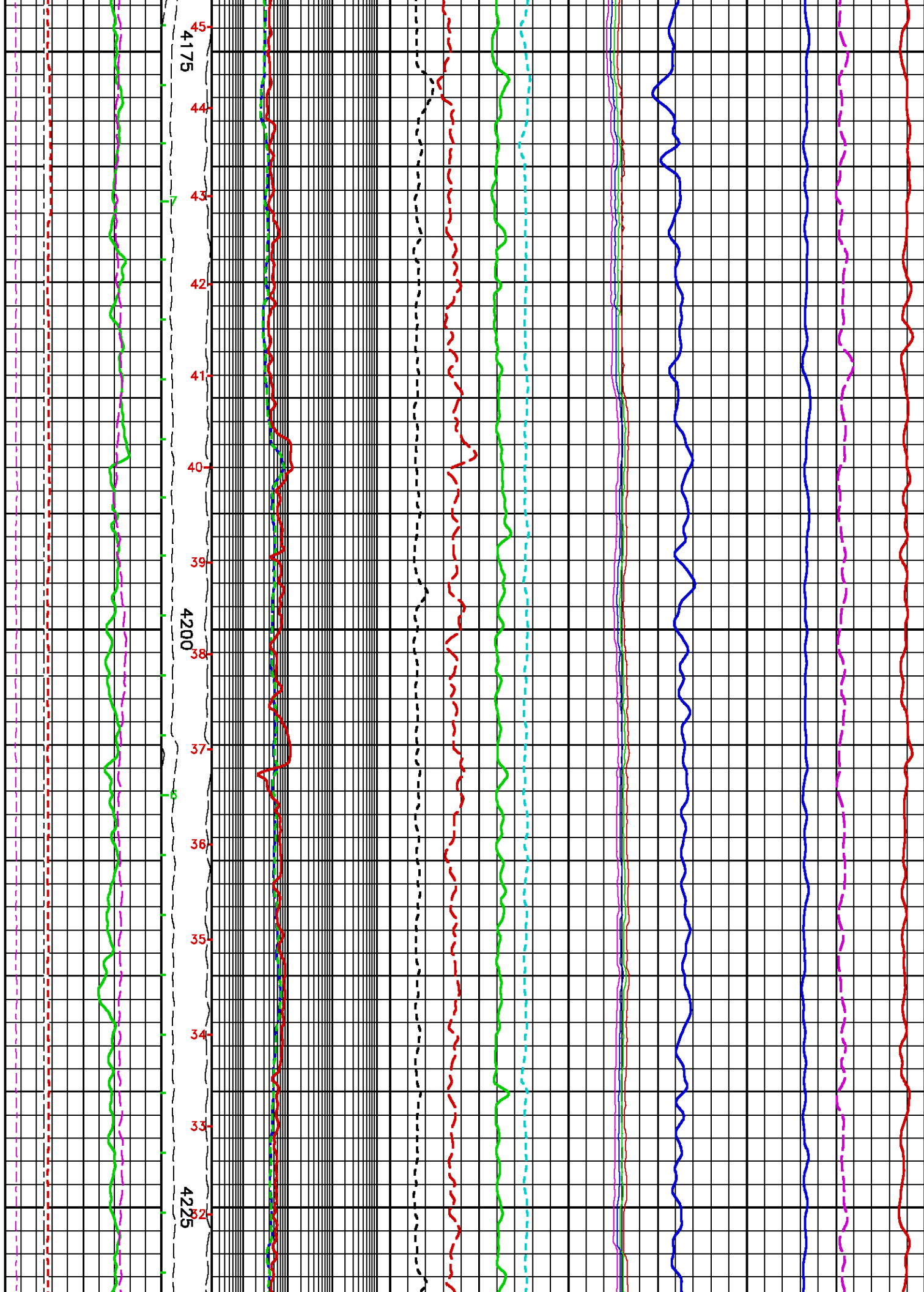


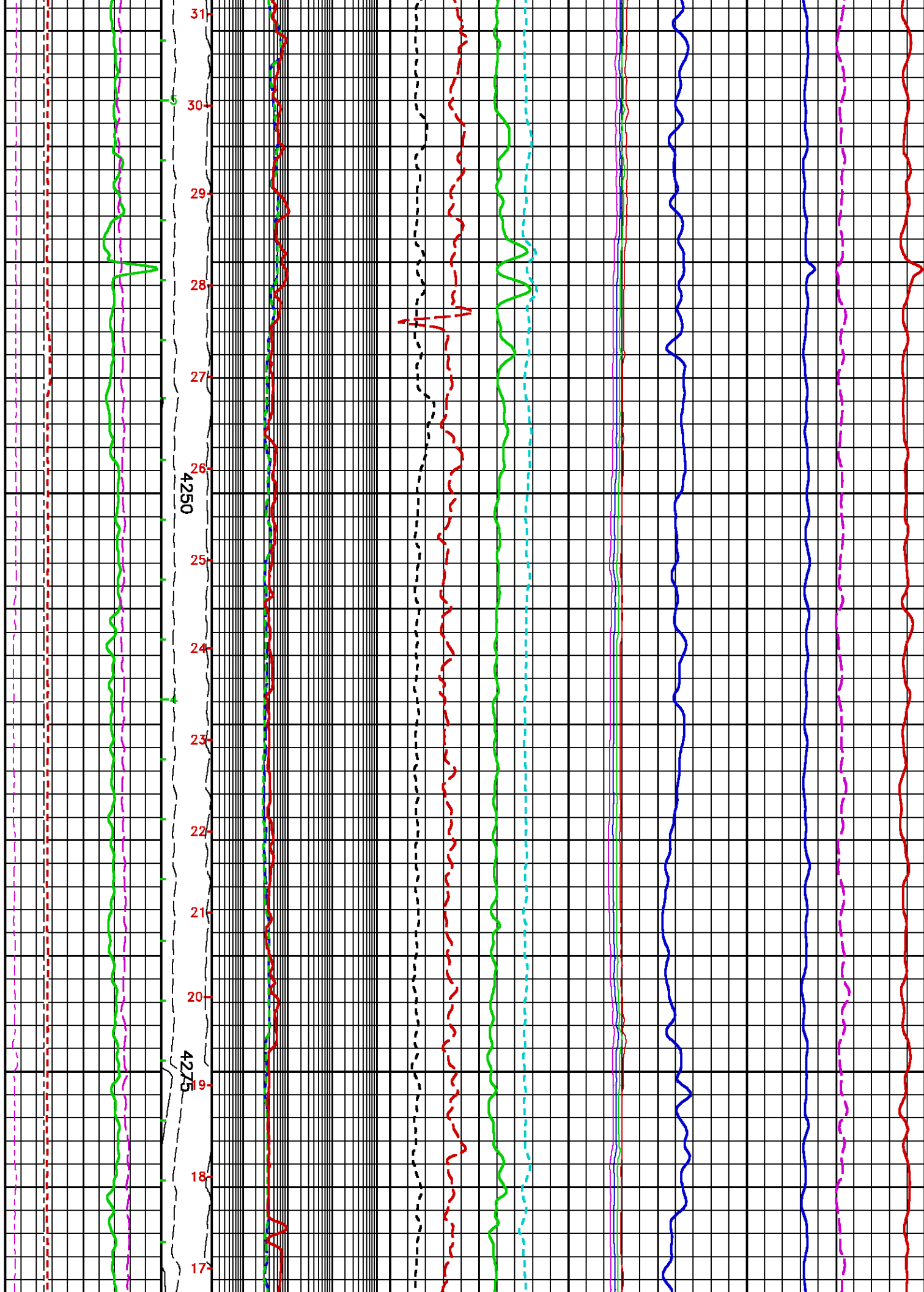


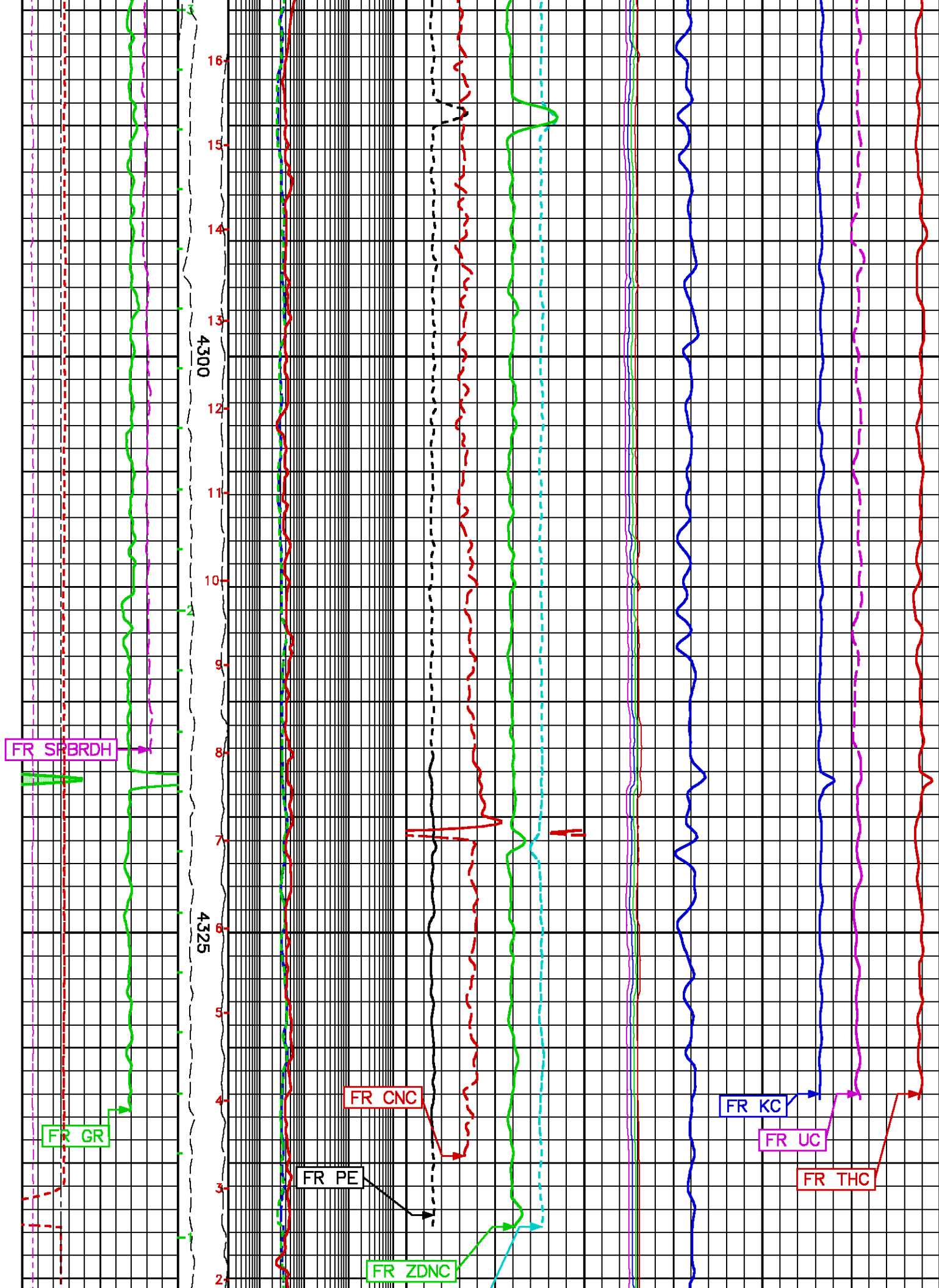


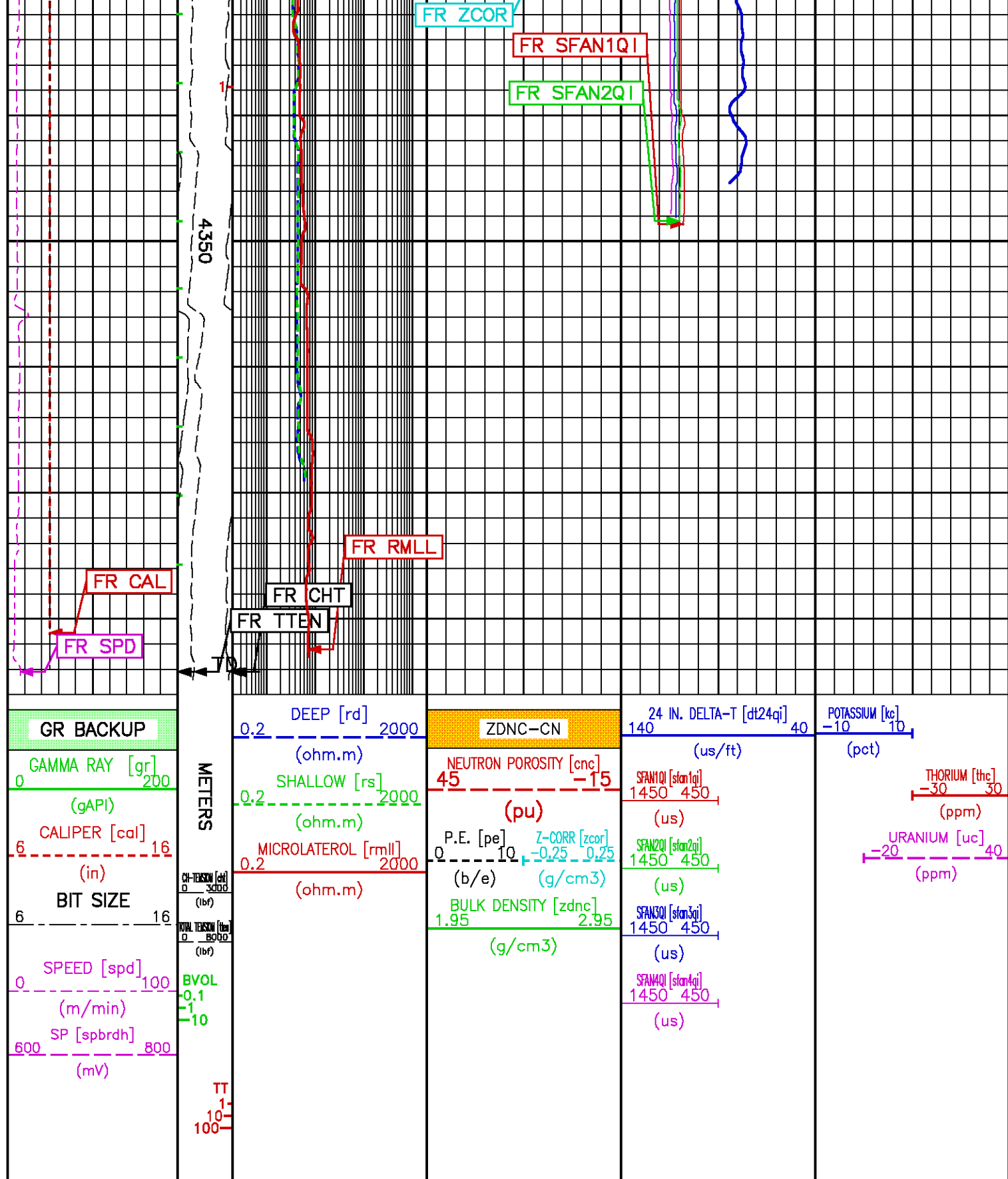












COMPANY  
WELL  
FIELD  
COUNTRY

APACHE ENERGY LIMITED  
MADFISH-1  
MADFISH  
AUSTRALIA

FILE NO:

API NO:

Baker Atlas

LOCATION:

ELEVATIONS:

FIELD PRINT  
SCALE 1:200





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

RD  
DF 21.5 M  
GL 392.6 M

SUITE 1

DATE 11-DEC-2008