



CROSS-MULTIPOLE ARRAY ACOUSTIC LOG  
GAMMA RAY LOG  
CALIPER LOG

Baker Atlas

FILE NO:	COMPANY	VULCAN MINERALS INC.
API NO:	WELL	VULCAN INVESTCAN RED BROOK #2
	FIELD	BAY ST. GEORGE BASIN
	PROVINCE	NEWFOUNDLAND AND LABRADOR
Ver. 3.87	LOCATION:	OTHER SERVICES
UID:		ZDL-CN-GR-CAL
N/A		HDIL-GR-CAL, CVL
LICENSE:	BH LOC. LSD:	GR-STAR, DSL
ADW 2009-116-03	LAT 48.2679591667	RCOR, VSP
	LONG -58.7501141667	FMT
PERMANENT DATUM	G.L.	ELEVATION
LOG MEASURED FROM	K.B.	6.3 M
DRILL MEAS. FROM	KELLY BUSHING	ABOVE P.D.
		ELEVATIONS:
		KB 63.4 M
		DF
		GL 57.1 M

DATE	25-NOV-2009	
RUN	TRIP	2
SERVICE ORDER	CA210569	
DEPTH DRILLER	1965.0 M	
DEPTH LOGGER	1962.0 M	
BOTTOM LOGGED INTERVAL	1953.9 M	
TOP LOGGED INTERVAL	800.0 M	
CASING DRILLER	244.5 MM	
CASING LOGGER	884.6 M	
BIT SIZE	216.0 MM	
TYPE OF FLUID IN HOLE	POLYMER	
DENSITY	VISCOSITY	80.0 S
PH	FLUID LOSS	4.8 ML
SOURCE OF SAMPLE	TOOL MEASURED	
RM AT MEAS. TEMP.	0.30 OHMM	
RM AT MEAS. TEMP.	0.24 OHMM	
RMC AT MEAS. TEMP.	0.36 OHMM	
SOURCE OF RMF	RMC	CALCULATED
RM AT BHT	0.30 OHMM	
TIME SINCE CIRCULATION	17.5 HOURS	
MAX. RECORDED TEMP.	27.4 DEGC	
EQUIP. NO.	LOCATION	OH NISKU
RECORDED BY	J. HOUSE / R. NEUPANE	
WITNESSED BY	M. SMITH	

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
444.5 MM	0.0 M	220.2 M
311.0 MM	220.2 M	895.0 M
216.0 MM	895.0 M	1965.0 M
NA	NA	NA

#### CASING RECORD

SIZE	WEIGHT	GRADE	FROM	TO
339.7 MM	71.4 KG/M	J-55	0.0 M	220.2 M
244.5 MM	64.7 KG/M	L-80	0.0 M	331.8 M
244.5 MM	53.6 KG/M	J-55	331.8 M	895.0 M
177.8 MM	NA	NA	NA	NA

#### REMARKS

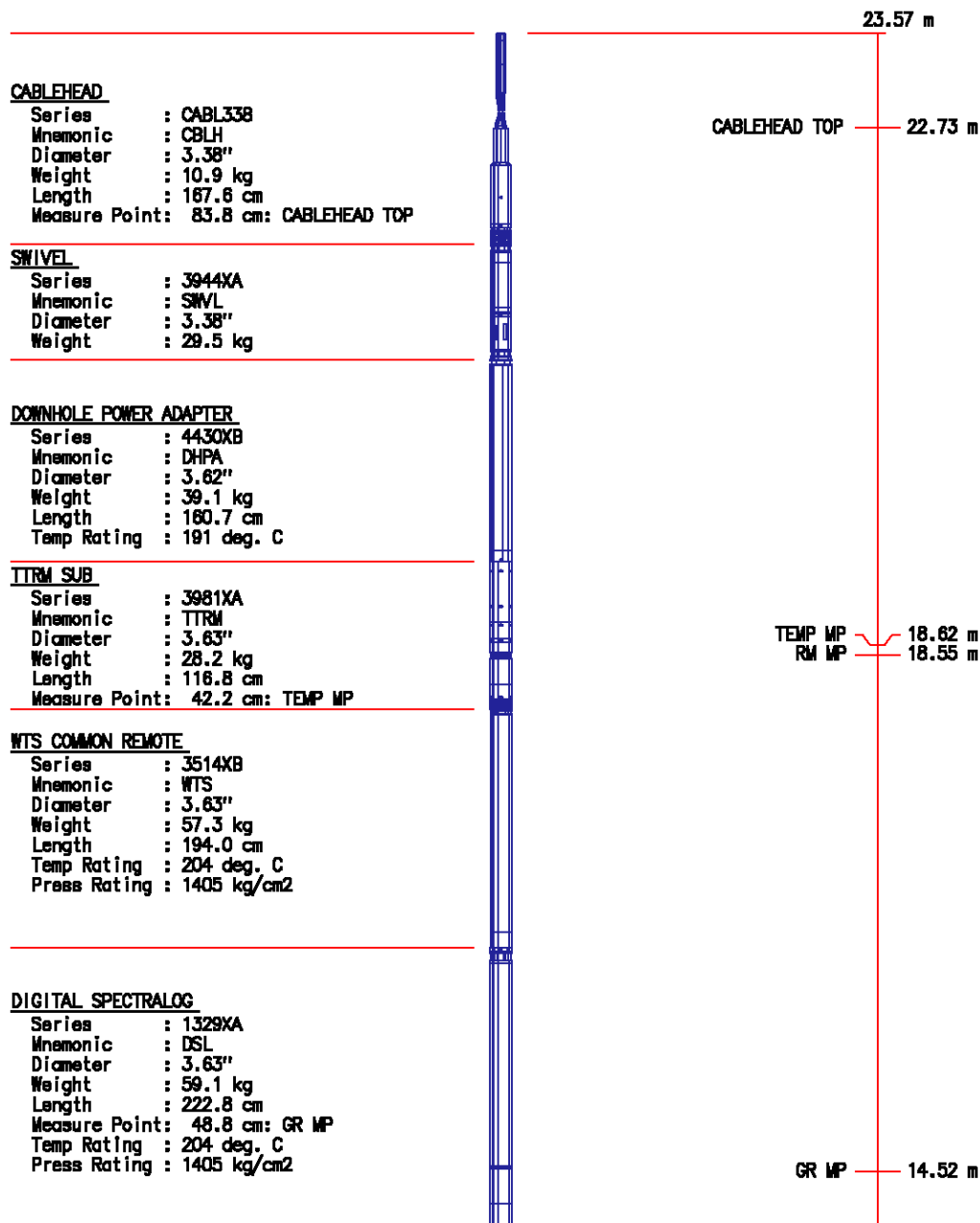
RUN 2 TRIP 2 : TIME STOPPED CIRCULATION: 25-NOV-2009 02:15  
INTEGRATED TRANSIT TIME TICS EVERY: 1.0, 10.0, & 100.0  $\mu$ SEC.  
RIG: STONEHAM #11  
CREW: J. HOUSE, R. NEUPANE, D. SCHNEIDER, A. MITTELSTADT,  
L. HICKS, J. ESCHNER, M. MONGER

#### EQUIPMENT DATA

RUN	TRIP	TOOL	SERIES NO.	SERIAL NO.	POSITION
2	2	SWIVEL	3944XA	73677	FREE
2	2	PWR ADAPTR	4430XB	10156399	FREE
2	2	TTRM	3981XA	369687	FREE
2	2	COMM RMT	3514XB	186131	FREE
2	2	GR/DSL	1329XB	370830	FREE
2	2	ORIT	4401XB	10115896	FREE
2	2	XMAC ELEC	1667EA	153337	CENTRALIZED
2	2	XMAC RX MAN	1678MA	189391	CENTRALIZED
2	2	XMAC ISO	1668PA	172683	CENTRALIZED
2	2	XMAC TX	1668BA	188362	CENTRALIZED
2	2	XMAC EL	1668FA	154044	CENTRALIZED

## INSTRUMENT CONFIGURATION

Source File: /dat1a/pass/vulcan/ku833k~VUL-tdg



#### DIGITAL ORIENTATION

Series : 4401XB  
Mnemonic : ORIT  
Diameter : 3.38"  
Weight : 50.0 kg  
Length : 329.4 cm  
Measure Point: 0.0 cm: ORIENT MP  
Temp Rating : 177 deg. C  
Press Rating : 1054 kg/cm2

ORIENT MP 10.74 m

#### ARRAY ACOUSTILOG ELECTRONICS

Series : 1667EA  
Mnemonic : DAC  
Diameter : 3.38"  
Weight : 61.8 kg  
Length : 238.3 cm  
Temp Rating : 191 deg. C  
Press Rating : 1405 kg/cm2

#### CROSS MULTIPOLE ARRAY ACOUSTILOG

Series : 167BMA  
Mnemonic : XMAC  
Diameter : 3.88"  
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  
Temp Rating : 204 deg. C

R8 6.71 m  
R7 6.56 m  
R6 6.41 m  
R5 6.25 m  
R4 6.10 m  
R3 5.95 m  
R2 5.80 m  
R1 5.64 m

#### MULTI-POLE ARRAY ACOUSTIC

Series : 1668PA  
Mnemonic : MAC  
Diameter : 3.63"  
Weight : 45.5 kg  
Length : 152.4 cm  
Temp Rating : 204 deg. C  
Press Rating : 1405 kg/cm2

#### MULTI-POLE ARRAY ACOUSTIC

Series : 1668BA  
Mnemonic : MAC  
Diameter : 3.63"  
Weight : 79.5 kg  
Length : 210.8 cm  
Measure Point: 165.1 cm: MONOPOLE T2 MP  
Measure Point: 142.2 cm: DIPOLE T4 MP  
Measure Point: 111.8 cm: DIPOLE T3 MP  
Measure Point: 88.9 cm: MONOPOLE T1 MP  
Temp Rating : 177 deg. C

MONOPOLE T2 MP 3.05 m  
DIPOLE T4 MP 2.82 m  
DIPOLE T3 MP 2.52 m  
MONOPOLE T1 MP 2.29 m

#### MULTI-POLE ARRAY ACOUSTIC

Series : 1668FA  
Mnemonic : MAC  
Diameter : 3.38"  
Weight : 34.1 kg  
Length : 131.6 cm  
Temp Rating : 204 deg. C  
Press Rating : 1405 kg/cm2

#### BULL PLUG 3 3/8

0.00 m

TOTAL LENGTH: 23.57 m  
TOTAL WEIGHT: 572.3 kg  
MAX DIAMETER: 0'4.00"

## PARAMETER AND FILTER SUMMARY REPORT

FILE: /data/pass/vulcan/ku833k03.prm  
 LOGGING MODE: DEPTH DIRECTION: UP  
 TOP DEPTH: 792.328 m BOTTOM DEPTH: 1960.784 m

### SYMMETRIC FILTER

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (m)	
CHT	FILTER ()	medium (1)		TOP	BOTTOM
TENSION	FILTER ()	medium (1)		"	"
GR	FILTER ()	medium (1)		"	"
DT24	FILTER ()	light (2)		"	"

### BOREHOLE & CEMENT

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (m)	
BIT SIZE	BIT SIZE	216.000	mm	TOP	BOTTOM

### ACOUSTIC AVAN CORRELATON

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (m)	
MONOPOLE DELTA T	FORMATION TYPE	GENERIC (MEDIUM)		TOP	BOTTOM
	CORRELATION METHOD	NTH ROOT		"	"
	RESET TAPERS			"	"
	TAPER - LEFT END	100	us/m	TOP	1883.099
		164	us/m	1883.099	BOTTOM
	TAPER - RIGHT END	350	us/m	TOP	958.803
		320	us/m	958.803	1017.904
		352	us/m	1017.904	1430.143
		300	us/m	1430.143	1524.145
		280	us/m	1524.145	1536.682
		330	us/m	1536.682	1818.139
		270	us/m	1818.139	1853.260
		300	us/m	1853.260	1882.652
		450	us/m	1882.652	BOTTOM
	FLOOR (UNIV. OPTION)	0.000		TOP	1884.045
		0.050		1884.045	BOTTOM
MONOPOLE COMPRESSIONAL	FORMATION TYPE	GENERIC (MEDIUM)		TOP	BOTTOM
	CORRELATION METHOD	NTH ROOT		"	"
	RESET TAPERS			"	"
	TAPER - LEFT END	90	us/m	TOP	1272.921
		100	us/m	1272.921	BOTTOM
	TAPER - RIGHT END	300	us/m	TOP	881.352
		330	us/m	881.352	985.098
		300	us/m	985.098	990.902
		330	us/m	990.902	999.058
		300	us/m	999.058	1007.084
		330	us/m	1007.084	1016.889
		300	us/m	1016.889	1018.966
		330	us/m	1018.966	1052.981
		350	us/m	1052.981	1063.894
		370	us/m	1063.894	1073.125
		350	us/m	1073.125	1088.955
		330	us/m	1088.955	1094.872
		380	us/m	1094.872	1101.902
		360	us/m	1101.902	1103.698
		330	us/m	1103.698	1118.997
		350	us/m	1118.997	1134.500
		330	us/m	1134.500	1135.135
		280	us/m	1135.135	1138.199
		330	us/m	1138.199	1138.929
		370	us/m	1138.929	1142.771
		400	us/m	1142.771	1154.617
		380	us/m	1154.617	1157.330
		350	us/m	1157.330	1163.920
		380	us/m	1163.920	1165.174
		350	us/m	1165.174	1178.495
		300	us/m	1178.495	1215.619
		330	us/m	1215.619	1269.416
		320	us/m	1269.416	1280.824
		310	us/m	1280.824	1293.744
		330	us/m	1293.744	1300.810
		300	us/m	1300.810	1314.199
		330	us/m	1314.199	1334.795

		300	us/m	1334.795	1338.393
		330	us/m	1336.777	1339.477
		360	us/m	1339.477	1351.660
		340	us/m	1351.660	1367.368
		360	us/m	1367.368	1388.440
		340	us/m	1388.440	1395.838
		370	us/m	1395.838	1417.463
		350	us/m	1417.463	1420.242
		370	us/m	1420.242	1421.331
		350	us/m	1421.331	1432.789
		330	us/m	1432.789	1435.379
		300	us/m	1435.379	1455.344
		330	us/m	1455.344	1459.429
		300	us/m	1459.429	1462.626
		330	us/m	1462.626	1466.878
		300	us/m	1466.878	1471.558
		330	us/m	1471.558	1475.918
		280	us/m	1475.918	1479.099
		330	us/m	1479.099	1510.129
		350	us/m	1510.129	1510.513
		380	us/m	1510.513	1511.091
		350	us/m	1511.091	1511.671
		300	us/m	1511.671	1531.087
		330	us/m	1531.087	1533.011
		280	us/m	1533.011	1536.947
		310	us/m	1536.947	1538.773
		340	us/m	1538.773	1541.372
		370	us/m	1541.372	1543.404
		350	us/m	1543.404	1553.489
		330	us/m	1553.489	1554.861
		350	us/m	1554.861	1563.806
		380	us/m	1563.806	1587.132
		350	us/m	1587.132	1654.073
		330	us/m	1654.073	1745.513
		350	us/m	1745.513	1747.567
		380	us/m	1747.567	1773.860
		350	us/m	1773.860	1793.672
		330	us/m	1793.672	1812.689
		350	us/m	1812.689	1819.123
		370	us/m	1819.123	1821.372
		350	us/m	1821.372	1821.999
		330	us/m	1821.999	1829.333
		270	us/m	1829.333	1855.370
		300	us/m	1855.370	1856.266
		330	us/m	1856.266	1856.895
		350	us/m	1856.895	1858.137
		300	us/m	1858.137	BOTTOM
	FLOOR (UNIV. OPTION)	0.000		TOP	1883.238
		0.050			BOTTOM

ACOUSTIC POROSITY					
MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (m)	
DELTA T CURVE SELECTION	DT24 SOURCE	AVAN DT24 FIRST ARRIVAL DT24		TOP 1888.160	BOTTOM 1888.160

ACOUSTIC PICK CONTROL					
MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (m)	
DELTA-T REJECTION RANGE	REJECTION DTmin	131	us/m	TOP	BOTTOM
	REJECTION DTmax	591	us/m	''	''
FIRST ARRIVAL PICK	SEARCH START OFFSET {sfan1*}	0	us	''	''
	SEARCH START OFFSET {sfan2*}	0	us	''	''
	SEARCH START OFFSET {sfan3*}	0	us	''	''
	SEARCH START OFFSET {sfan4*}	0	us	''	''
	SEARCH WINDOW LENGTH	1200	us	''	''
	THRESHOLD FACTOR	0.30		''	''
	THRESHOLD MINIMUM {sfan1*}	35		''	''
	THRESHOLD MINIMUM {sfan2*}	35		''	''
	THRESHOLD MINIMUM {sfan3*}	35		''	''
	THRESHOLD MINIMUM {sfan4*}	35		''	''
	E3 THRESHOLD	OFF		''	''

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	7000	Hz	TOP	1879.573
		4000	Hz	1879.573	BOTTOM
	HIGH FREQ CUTOFF	22500	Hz	TOP	1879.127
		20000	Hz	1879.127	BOTTOM
WAVEFORM FILTER - FULL WAVE	SURFACE WAVE FILTER	ON		TOP	BOTTOM

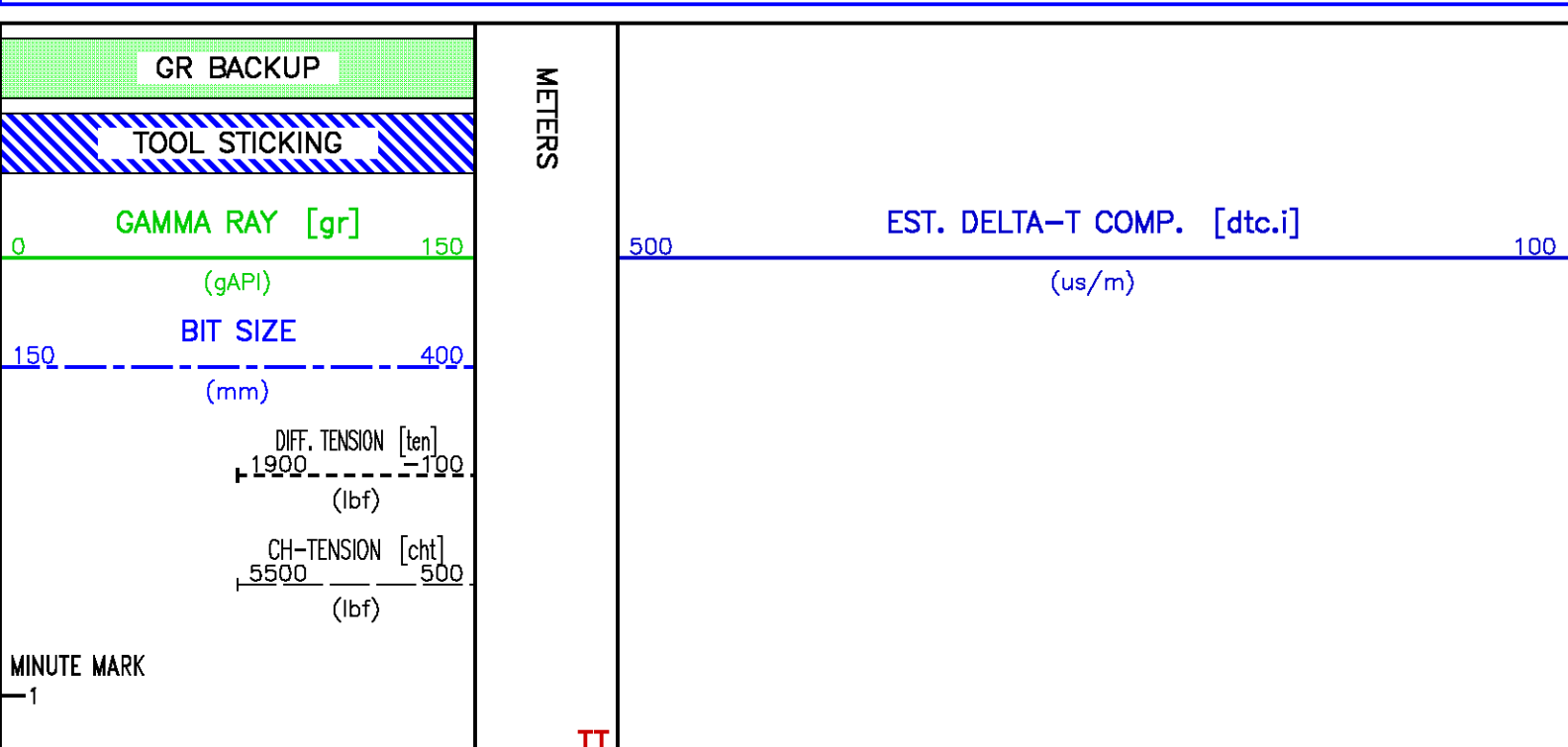
WAVEFORM FILTER - FULLWAVE	SURFACE WAVE FILTER	ON	1500	Hz	TOP	''	BOTTOM	''
	LOW FREQ CUTOFF		20000	Hz		''		''
	HIGH FREQ CUTOFF							

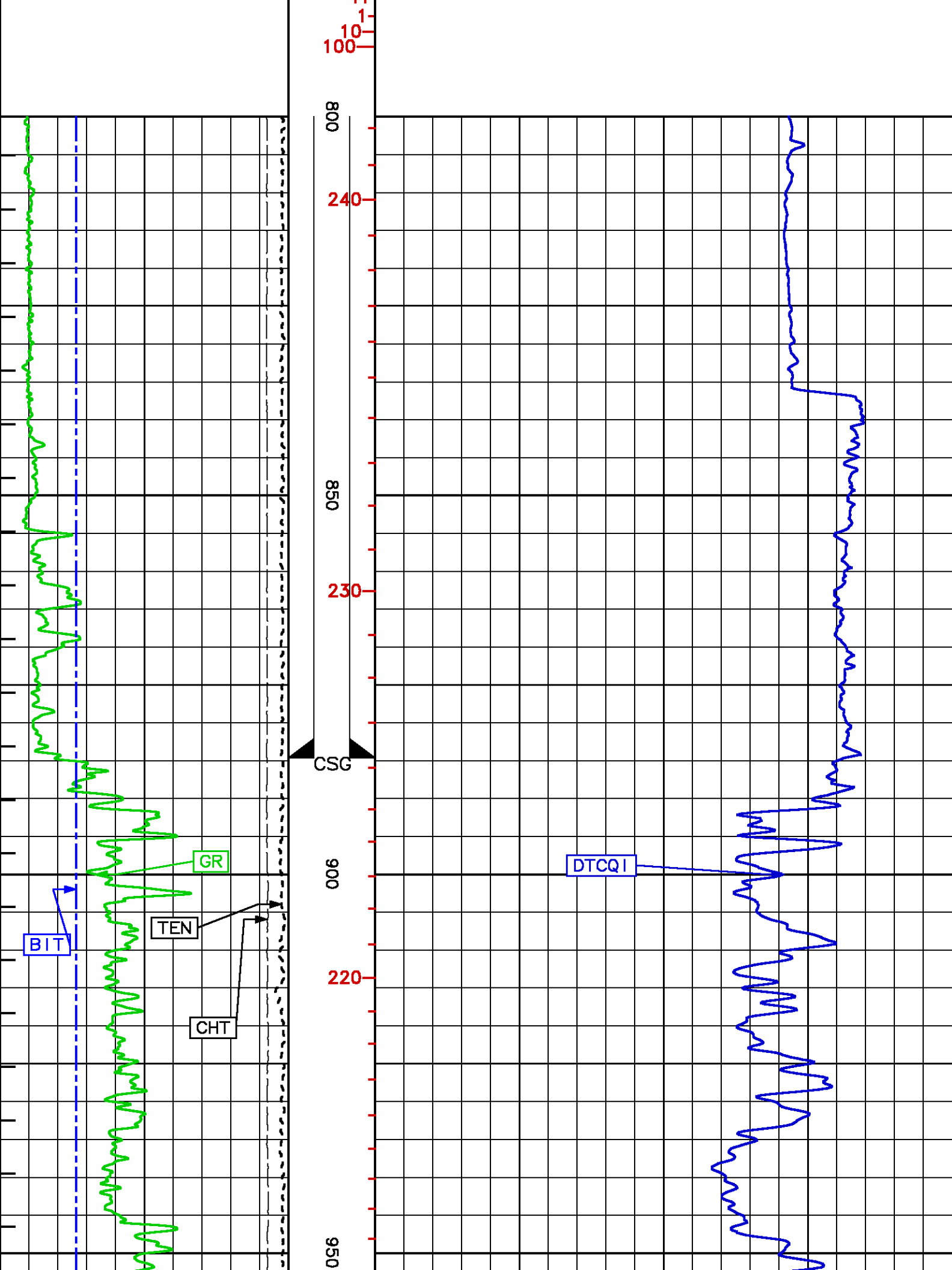
ACOUSTIC TCC CONTROL PARAMETERS								
MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (m)				
GENERAL TCC PARAMETERS	AGC	ON		TOP BOTTOM				
GENERAL MONOPOLE TCC PARAMETERS	STACK LEVEL	1		'' ''				
	LOW FREQ	500		'' ''				
	HIGH FREQ	23		'' ''				
DELTA T TCC PARAMETERS	ACG WINDOW	1536	us	'' ''				
	MOVEOUT	16	us/ft	'' ''				
	SAMPLE PERIOD	8		'' ''				
	RX DELAY	240	us	'' ''				
FULL WAVE MONOPOLE TCC PARAMETERS	ACG WINDOW	5184	us	'' ''				
	SAMPLE PERIOD	12		'' ''				
	RX DELAY	0	us	'' ''				

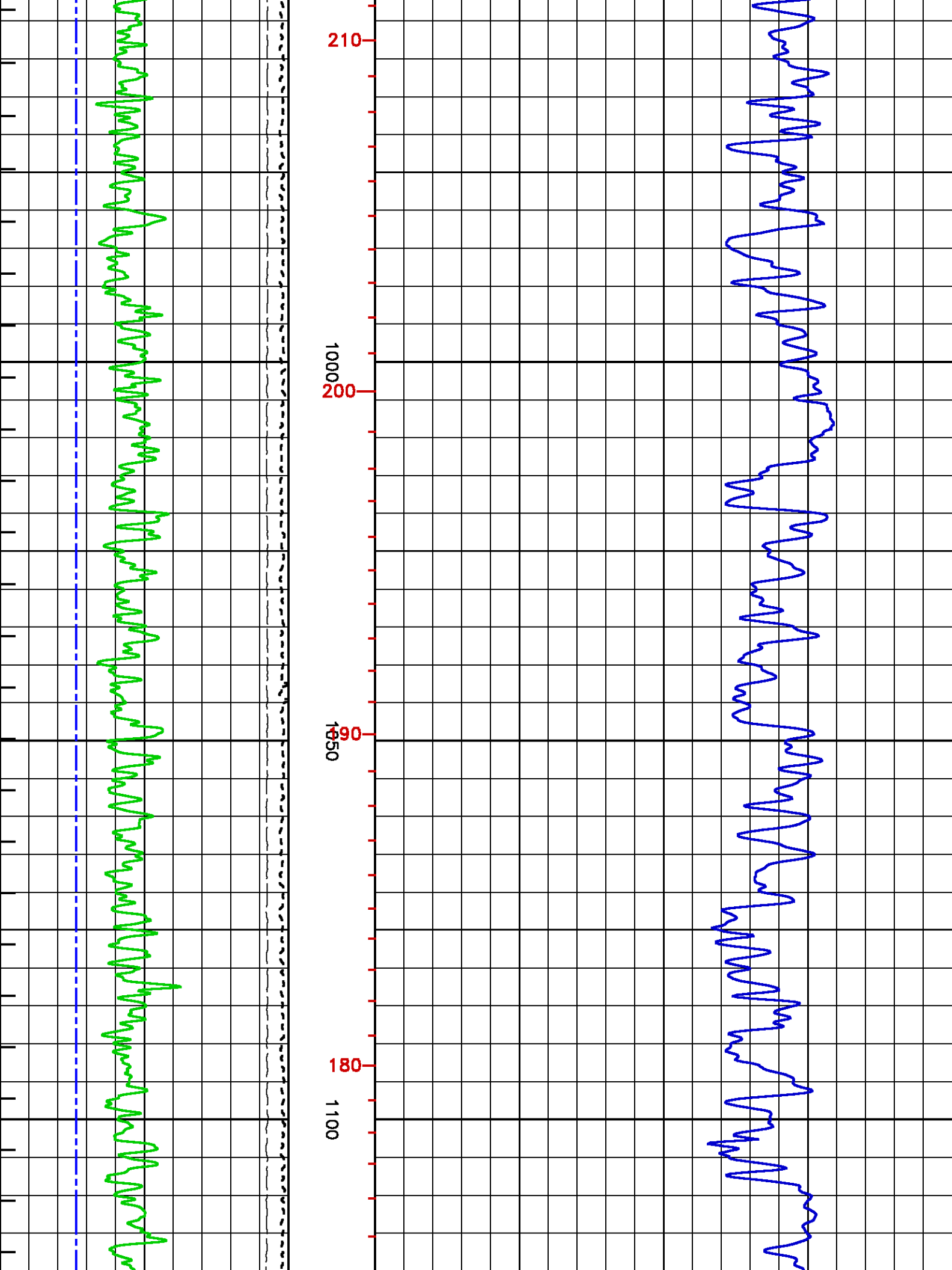
CURVE DESCRIPTION REPORT				
CURVE NAME	CURVE ALIAS	CREATION DATE	CURVE DESCRIPTION	
F1:BIT	BIT	Nov 25 18:18:32 2009	BIT SIZE	
F1:CHT	CHT	Nov 25 18:18:32 2009	CABLE HEAD TENSION	
F1:DTCQI	DTC.I	Nov 25 18:18:32 2009	COMPRESSIONAL WAVE SLOWNESS	
F1:GR	GR	Nov 25 18:18:32 2009	GAMMA RAY	
F1:MMRK	MMRK	Nov 25 18:18:32 2009	MINUTE MARK	
F1:TEN	TEN	Nov 25 18:18:32 2009	DIFFERENTIAL TENSION	
F1:TTQI	TT.I	Nov 25 18:18:32 2009	INTEGRATED TRAVEL TIME FROM ACOUSTIC DELTA-T	

CURVE MEASURE POINT OFFSET							
CURVE	OFFSET (m)	CURVE	OFFSET (m)	CURVE	OFFSET (m)	CURVE	OFFSET (m)
BIT	0.00	DTCQI	5.94	TEN	0.00		
CHT	0.00	GR	14.40				

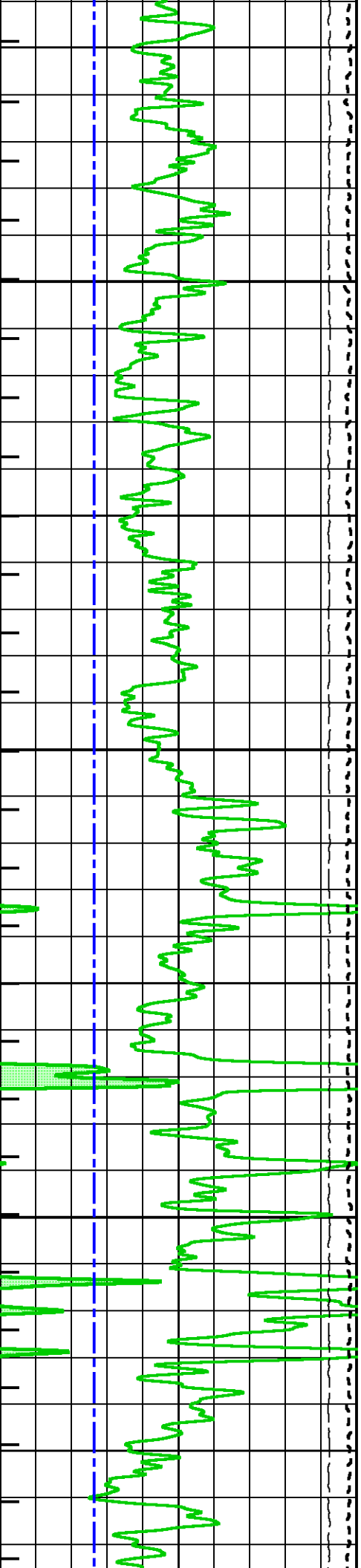
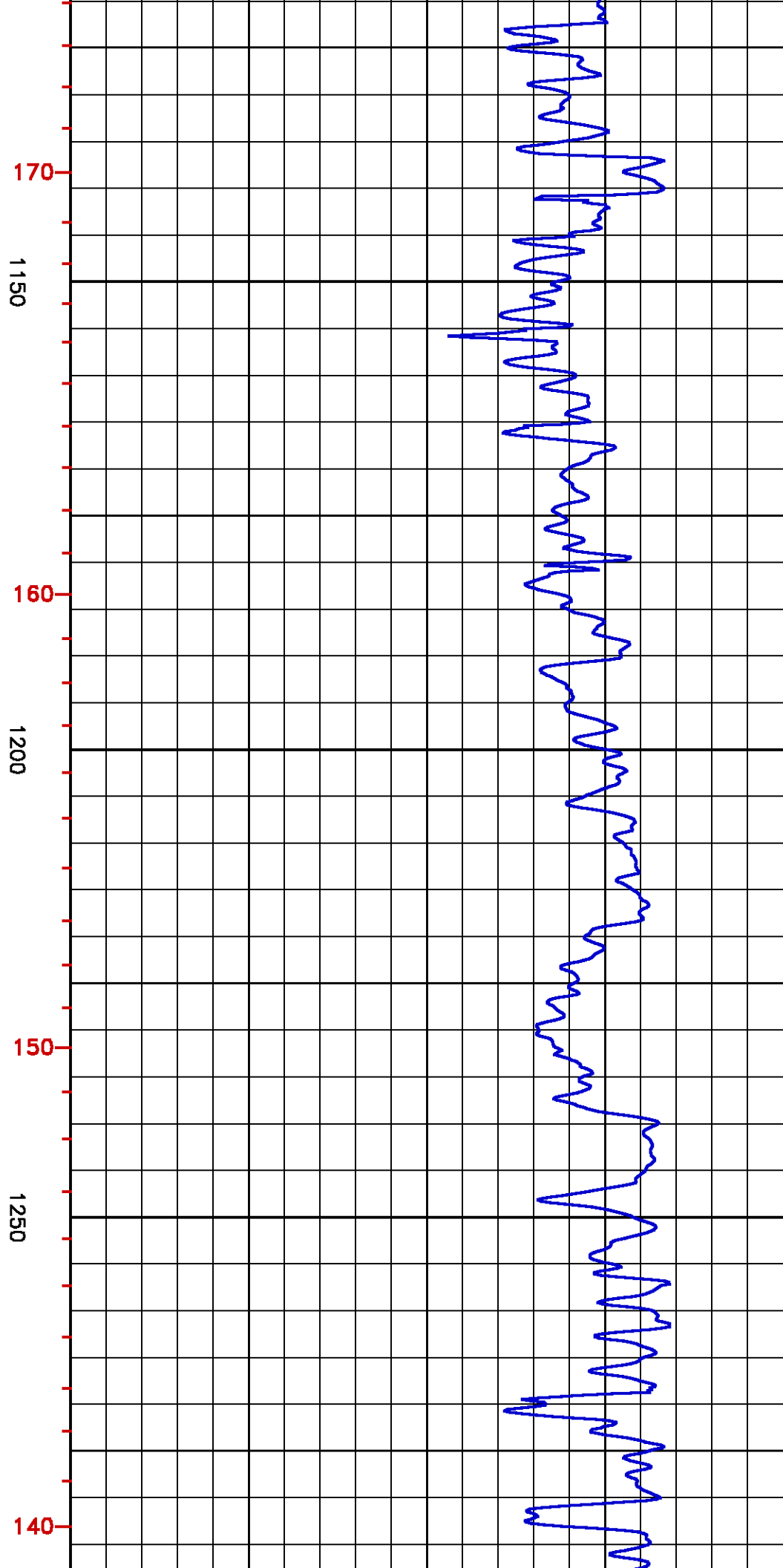
Presentation	: cpu1:/dat1a/pass/vulcan/mac_upper100-500.pdf [1:600 Scale]
Plot Interval	: 800 - 1965 Meters
Data File 1	: F1 : cpu1:/dat1a/pass/vulcan/ku833k03.xtf
Created On	: Nov 25 18:18:32 2009
Company	: VULCAN MINERALS INC.
Well	: VULCAN INVESTCAN RED BROOK #2
Field	: RED BROOK
File Interval	: 774.878 - 1961.16 Meters
Oct	: ku833k

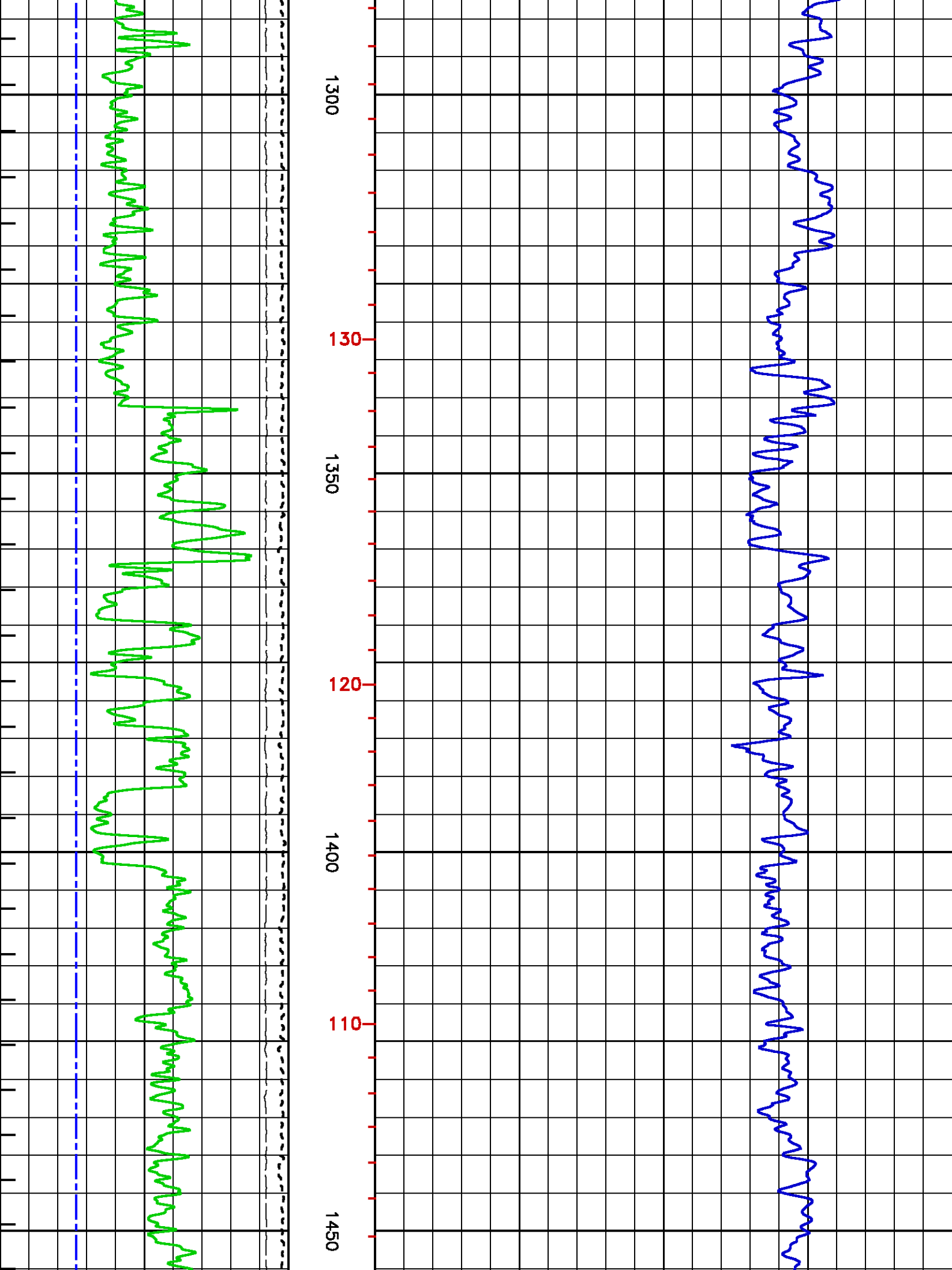


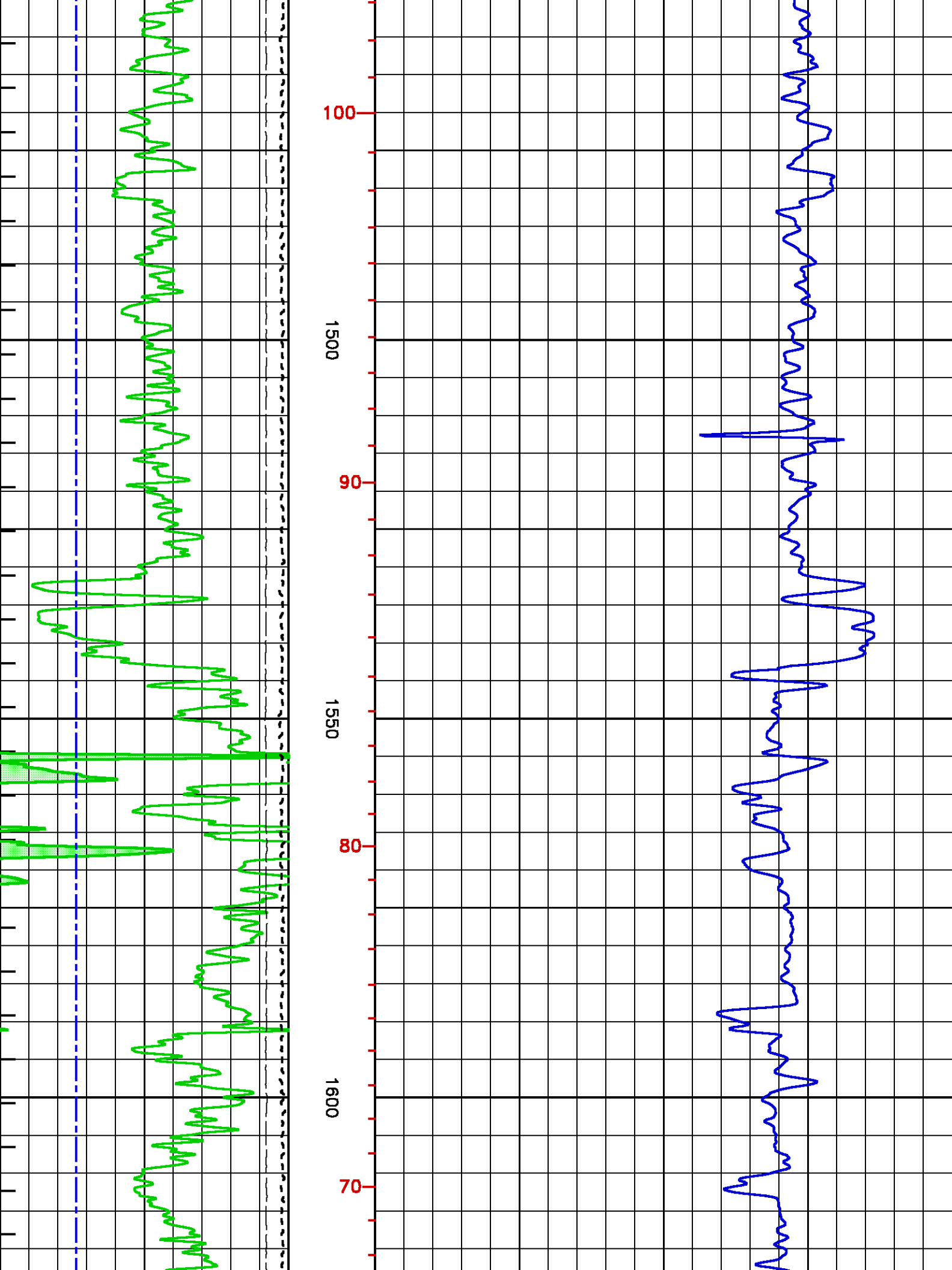


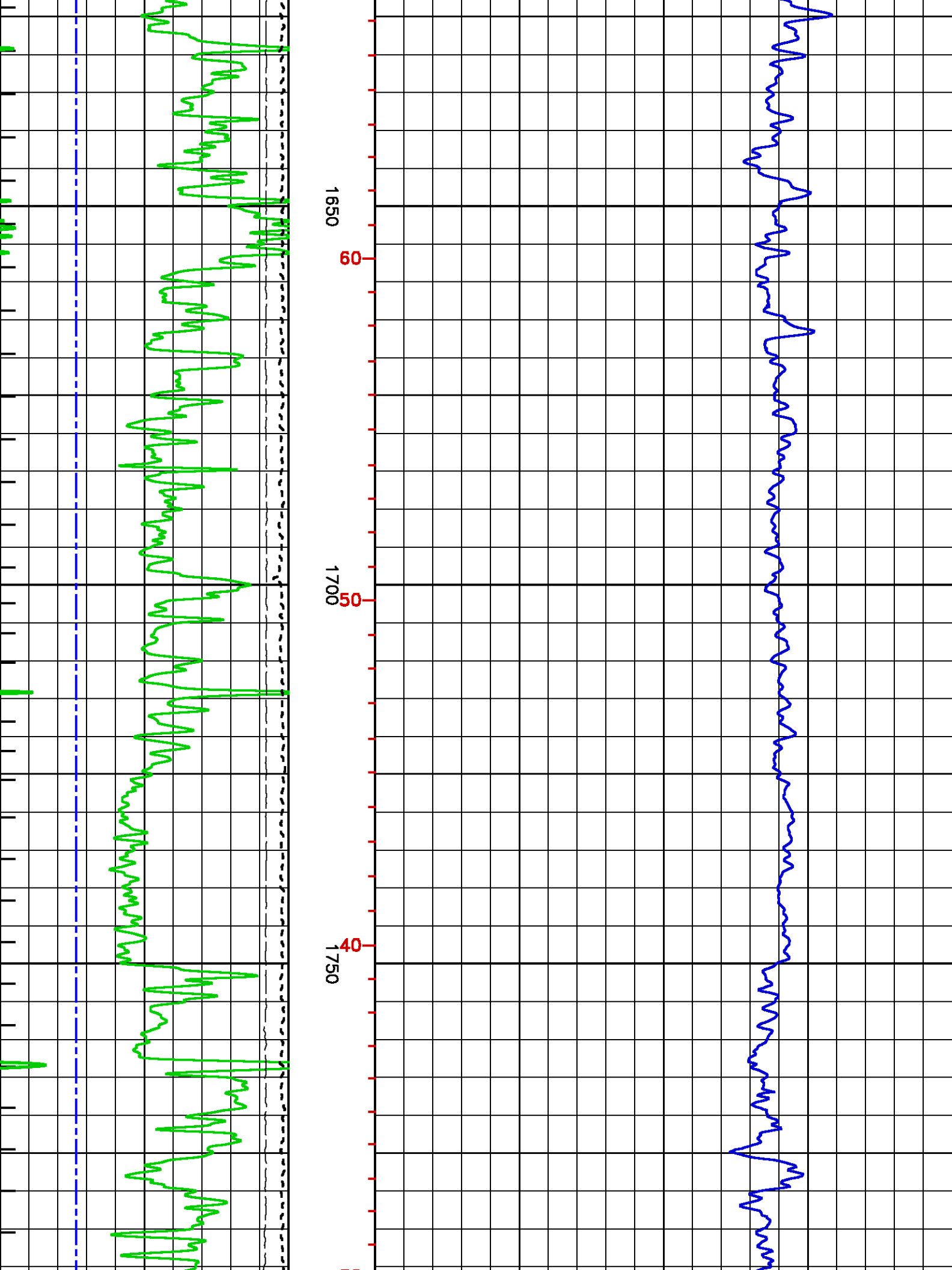


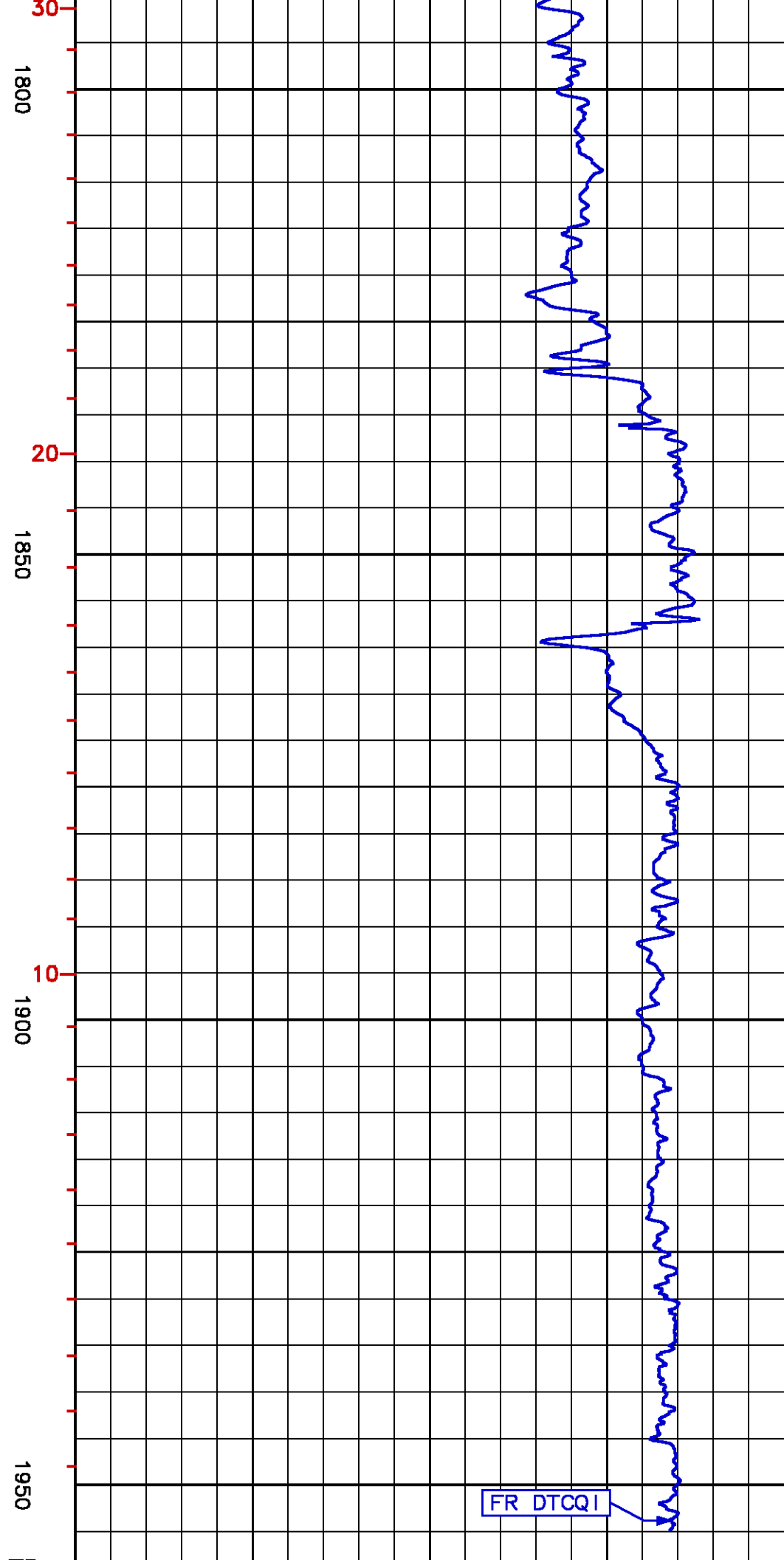
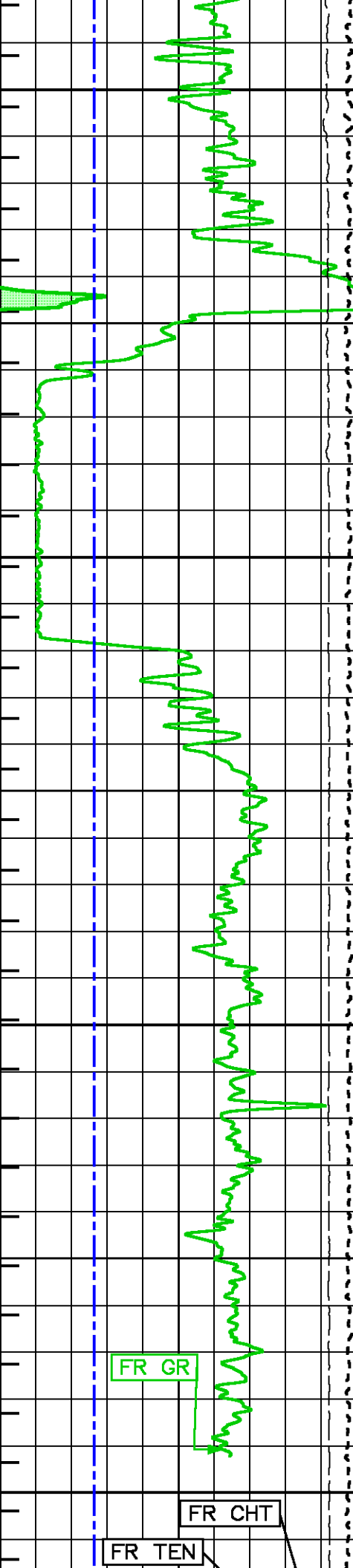


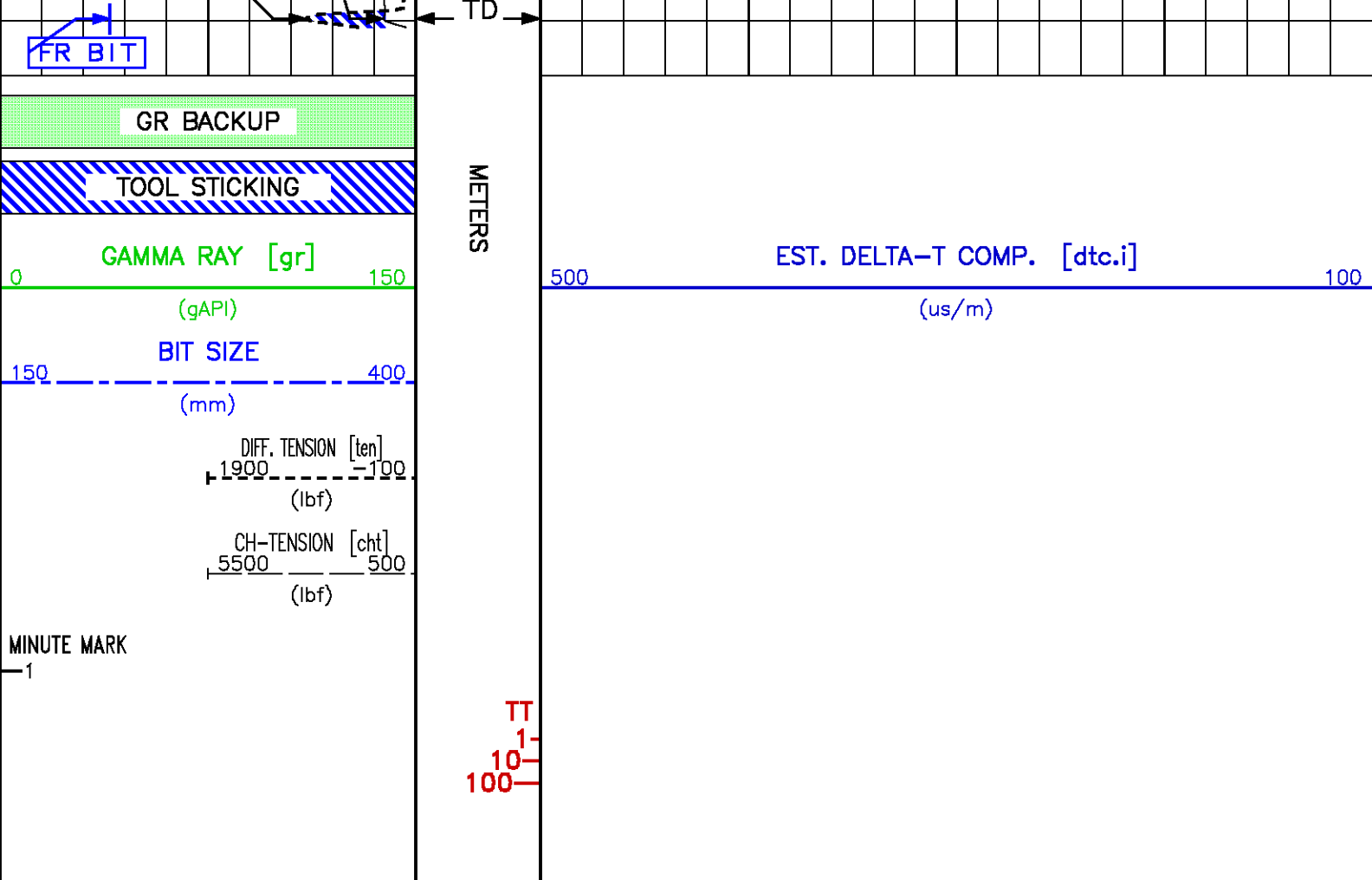












## MAIN LOG

ECLIPS 6.0i Feb 21, 2008  
Updates: 1,40,43

Wed Nov 25 21:49:21 2009

Pcrplt /main/62

Cplot

Pdf\_Cpp /main/16

Fileview 5.42

### PARAMETER AND FILTER SUMMARY REPORT

FILE: /data/pass/vulcan/ku833k03.prm  
LOGGING MODE: DEPTH DIRECTION: UP  
TOP DEPTH: 792.328 m BOTTOM DEPTH: 1960.784 m

### SYMMETRIC FILTER

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (m)	
CHT	FILTER ()	medium (1)		TOP	BOTTOM
TENSION	FILTER ()	medium (1)		"	"
GR	FILTER ()	medium (1)		"	"
DT24	FILTER ()	light (2)		"	"

### BOREHOLE & CEMENT

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (m)	
BIT SIZE	BIT SIZE	216.000	mm	TOP	BOTTOM

### ACOUSTIC AVAN CORRELATON

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (m)	
MONOPOLE DELTA T	FORMATION TYPE	GENERIC (MEDIUM)		TOP	BOTTOM
	CORRELATION METHOD	NTH ROOT		''	''
	RESET TAPERS			''	''
	TAPER - LEFT END	100	us/m	TOP	1883.099
		164	us/m	1883.099	BOTTOM
	TAPER - RIGHT END	350	us/m	TOP	958.803
		320	us/m	958.803	1017.904
		352	us/m	1017.904	1430.143
		300	us/m	1430.143	1524.145
		280	us/m	1524.145	1536.682
		330	us/m	1536.682	1818.139
		270	us/m	1818.139	1853.260
		300	us/m	1853.260	1882.652
		450	us/m	1882.652	BOTTOM
	FLOOR (UNIV. OPTION)	0.000		TOP	1884.045
		0.050		1884.045	BOTTOM
MONOPOLE COMPRESSIONAL	FORMATION TYPE	GENERIC (MEDIUM)		TOP	BOTTOM
	CORRELATION METHOD	NTH ROOT		''	''
	RESET TAPERS			''	''
	TAPER - LEFT END	90	us/m	TOP	1272.921
		100	us/m	1272.921	BOTTOM
	TAPER - RIGHT END	300	us/m	TOP	881.352
		330	us/m	881.352	985.098
		300	us/m	985.098	990.902
		330	us/m	990.902	999.058
		300	us/m	999.058	1007.084
		330	us/m	1007.084	1016.889
		300	us/m	1016.889	1018.966
		330	us/m	1018.966	1052.981
		350	us/m	1052.981	1083.894
		370	us/m	1063.894	1073.125
		350	us/m	1073.125	1088.955
		330	us/m	1088.955	1094.872
		380	us/m	1094.872	1101.902
		360	us/m	1101.902	1103.698
		330	us/m	1103.698	1118.997
		350	us/m	1118.997	1134.500
		330	us/m	1134.500	1135.135
		280	us/m	1135.135	1138.199
		330	us/m	1138.199	1138.929
		370	us/m	1138.929	1142.771
		400	us/m	1142.771	1154.617
		380	us/m	1154.617	1157.330
		350	us/m	1157.330	1163.920
		380	us/m	1163.920	1165.174
		350	us/m	1165.174	1178.495
		300	us/m	1178.495	1215.619
		330	us/m	1215.619	1269.416
		320	us/m	1269.416	1280.824
		310	us/m	1280.824	1293.744
		330	us/m	1293.744	1300.810
		300	us/m	1300.810	1314.199
		330	us/m	1314.199	1334.795
		300	us/m	1334.795	1336.777
		330	us/m	1336.777	1339.477
		360	us/m	1339.477	1351.660
		340	us/m	1351.660	1367.368
		360	us/m	1367.368	1388.440
		340	us/m	1388.440	1395.838
		370	us/m	1395.838	1417.463
		350	us/m	1417.463	1420.242
		370	us/m	1420.242	1421.331
		350	us/m	1421.331	1432.789
		330	us/m	1432.789	1435.379
		300	us/m	1435.379	1455.344
		330	us/m	1455.344	1459.429
		300	us/m	1459.429	1462.626
		330	us/m	1462.626	1466.878
		300	us/m	1466.878	1471.558
		330	us/m	1471.558	1475.918
		280	us/m	1475.918	1479.099
		330	us/m	1479.099	1510.129
		350	us/m	1510.129	1510.513
		380	us/m	1510.513	1511.091
		350	us/m	1511.091	1511.671
		300	us/m	1511.671	1531.087
		330	us/m	1531.087	1533.011
		280	us/m	1533.011	1536.947
		310	us/m	1536.947	1538.773
		340	us/m	1538.773	1541.372
		370	us/m	1541.372	1543.404
		350	us/m	1543.404	1553.489
		330	us/m	1553.489	1554.861
		350	us/m	1554.861	1563.806
		380	us/m	1563.806	1587.132
		350	us/m	1587.132	1654.073
		330	us/m	1654.073	1745.513
		350	us/m	1745.513	1747.567
		380	us/m	1747.567	1773.860
		350	us/m	1773.860	1793.672
		330	us/m	1793.672	1812.689
		350	us/m	1812.689	1819.123
		370	us/m	1819.123	1821.372

			350	us/m	1821.372	1821.999
			330	us/m	1821.999	1829.333
			270	us/m	1829.333	1855.370
			300	us/m	1855.370	1856.266
			330	us/m	1856.266	1856.895
			350	us/m	1856.895	1858.137
			300	us/m	1858.137	BOTTOM
	FLOOR (UNIV. OPTION)		0.000		TOP	1883.238
			0.050		1883.238	BOTTOM
ACOUSTIC POROSITY						
MEASUREMENT TYPE	PARAMETER	VALUE		UNITS	INTERVAL (m)	
DELTA T CURVE SELECTION	DT24 SOURCE	AVAN DT24 FIRST ARRIVAL DT24			TOP 1888.160	1888.160 BOTTOM
ACOUSTIC PICK CONTROL						
MEASUREMENT TYPE	PARAMETER	VALUE		UNITS	INTERVAL (m)	
DELTA-T REJECTION RANGE	REJECTION DTmin	131		us/m	TOP	BOTTOM
	REJECTION DTmax	591		us/m	''	''
FIRST ARRIVAL PICK	SEARCH START OFFSET {sfan1*}	0		us	''	''
	SEARCH START OFFSET {sfan2*}	0		us	''	''
	SEARCH START OFFSET {sfan3*}	0		us	''	''
	SEARCH START OFFSET {sfan4*}	0		us	''	''
	SEARCH WINDOW LENGTH	1200		us	''	''
	THRESHOLD FACTOR	0.30			''	''
	THRESHOLD MINIMUM {sfan1*}	35			''	''
	THRESHOLD MINIMUM {sfan2*}	35			''	''
	THRESHOLD MINIMUM {sfan3*}	35			''	''
	THRESHOLD MINIMUM {sfan4*}	35			''	''
	E3 THRESHOLD	OFF			''	''
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	7000		Hz	TOP	1879.573
		4000		Hz	1879.573	BOTTOM
	HIGH FREQ CUTOFF	22500		Hz	TOP	1879.127
		20000		Hz	1879.127	BOTTOM
WAVEFORM FILTER - FULLWAVE	SURFACE WAVE FILTER	ON			TOP	BOTTOM
	LOW FREQ CUTOFF	1500		Hz	''	''
	HIGH FREQ CUTOFF	20000		Hz	''	''
ACOUSTIC TCC CONTROL PARAMETERS						
MEASUREMENT TYPE	PARAMETER	VALUE		UNITS	INTERVAL (m)	
GENERAL TCC PARAMETERS	AGC	ON			TOP	BOTTOM
GENERAL MONOPOLE TCC PARAMETERS	STACK LEVEL	1			''	''
	LOW FREQ	500			''	''
	HIGH FREQ	23			''	''
DELTA T TCC PARAMETERS	ACG WINDOW	1536		us	''	''
	MOVEOUT	16		us/ft	''	''
	SAMPLE PERIOD	8			''	''
	RX DELAY	240		us	''	''
FULL WAVE MONOPOLE TCC PARAMETERS	ACG WINDOW	5184		us	''	''
	SAMPLE PERIOD	12			''	''
	RX DELAY	0		us	''	''
CURVE DESCRIPTION REPORT						
CURVE NAME	CURVE ALIAS	CREATION DATE	CURVE DESCRIPTION			
F1:BIT	BIT	Nov 25 18:18:32 2009	BIT SIZE			
F1:CHT	CHT	Nov 25 18:18:32 2009	CABLE HEAD TENSION			
F1:DTCQI	DTC.I	Nov 25 18:18:32 2009	COMPRESSIONAL WAVE SLOWNESS			
F1:GR	GR	Nov 25 18:18:32 2009	GAMMA RAY			
F1:MMRK	MMRK	Nov 25 18:18:32 2009	MINUTE MARK			
F1:TEN	TEN	Nov 25 18:18:32 2009	DIFFERENTIAL TENSION			
F1:TTQI	TT.I	Nov 25 18:18:32 2009	INTEGRATED TRAVEL TIME FROM ACOUSTIC DELTA-T			

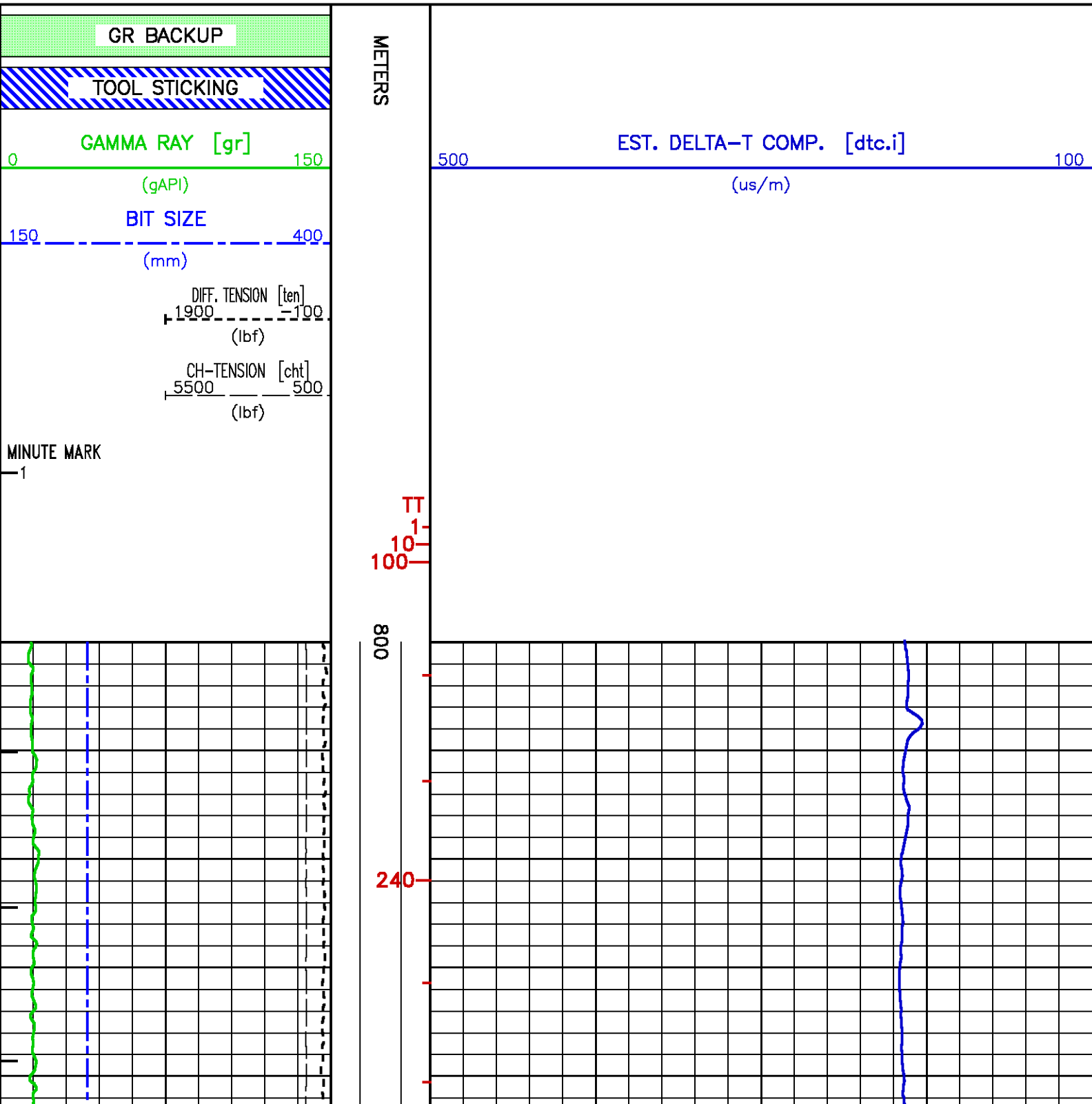


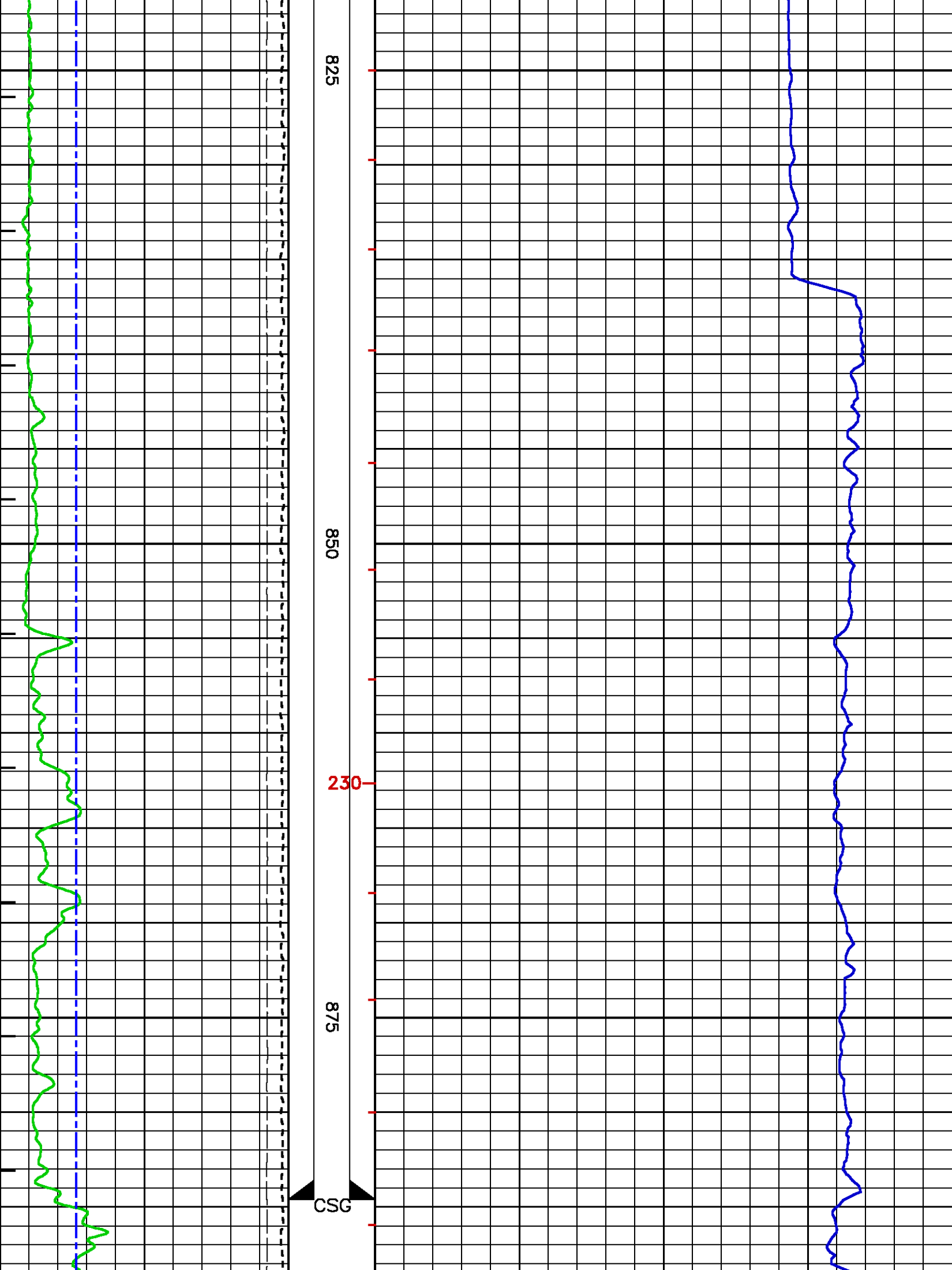
# CURVE MEASURE POINT OFFSET

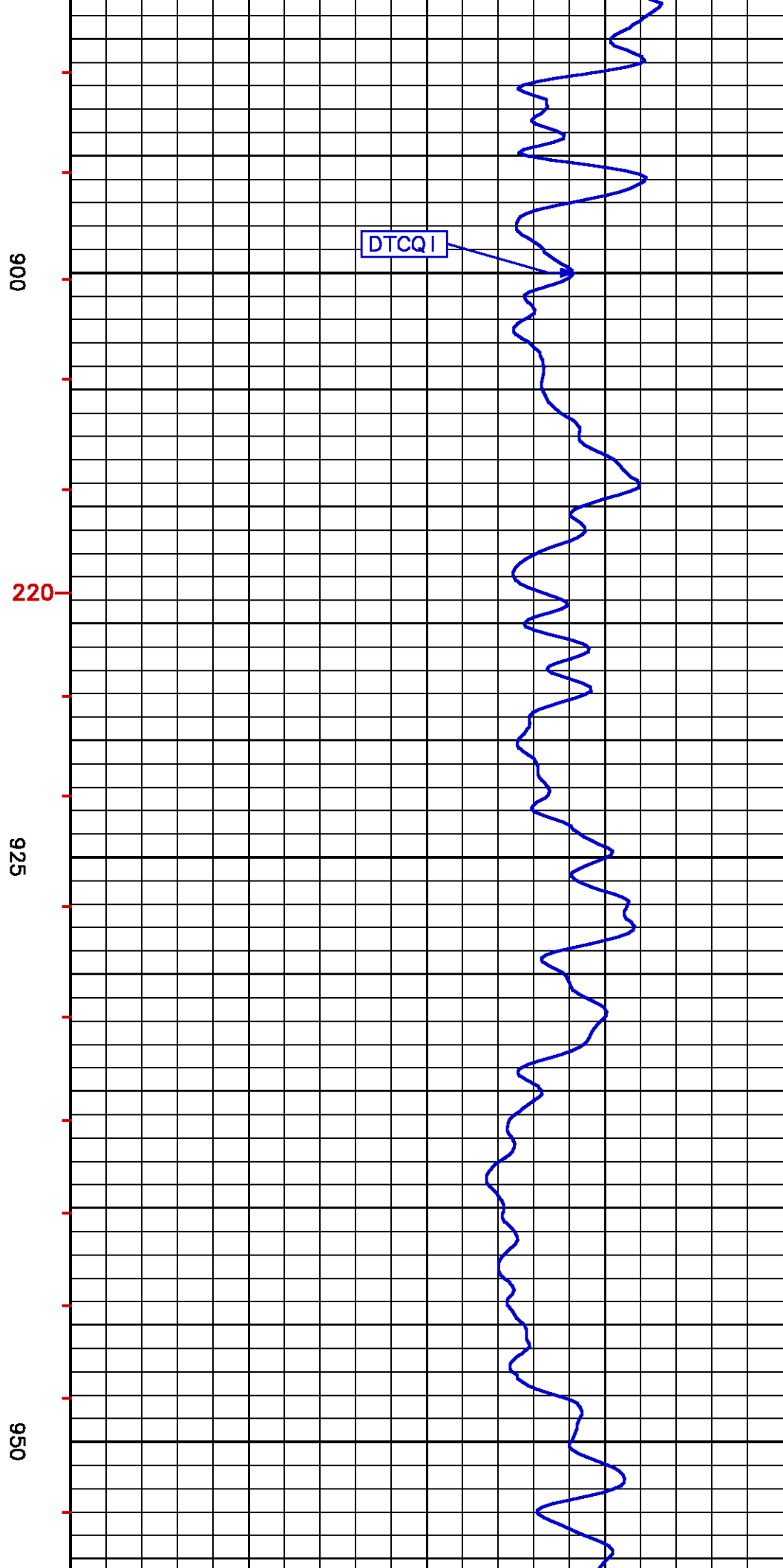
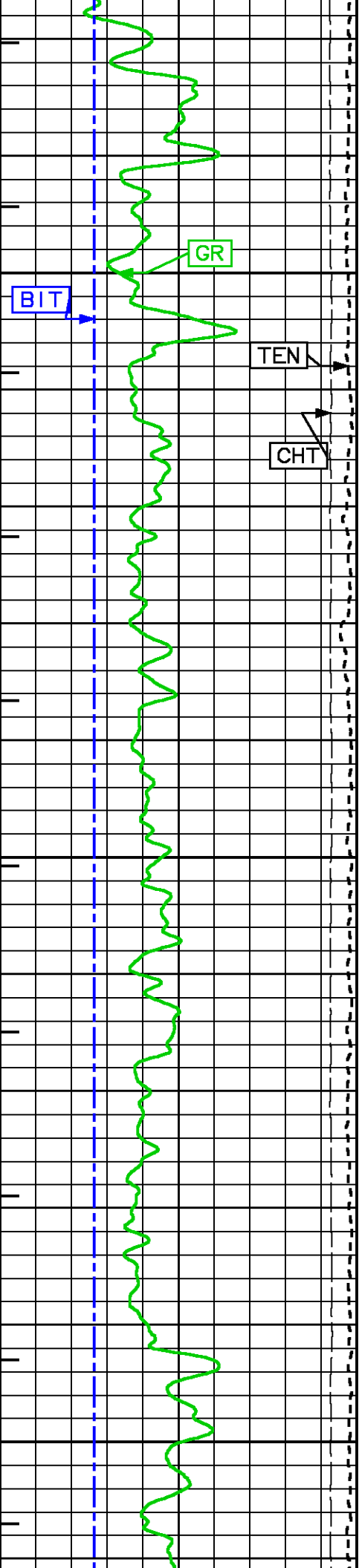
CURVE	OFFSET (m)	CURVE	OFFSET (m)	CURVE	OFFSET (m)	CURVE	OFFSET (m)
BIT CHT	0.00 0.00	DTCQI GR	5.94 14.40	TEN	0.00		

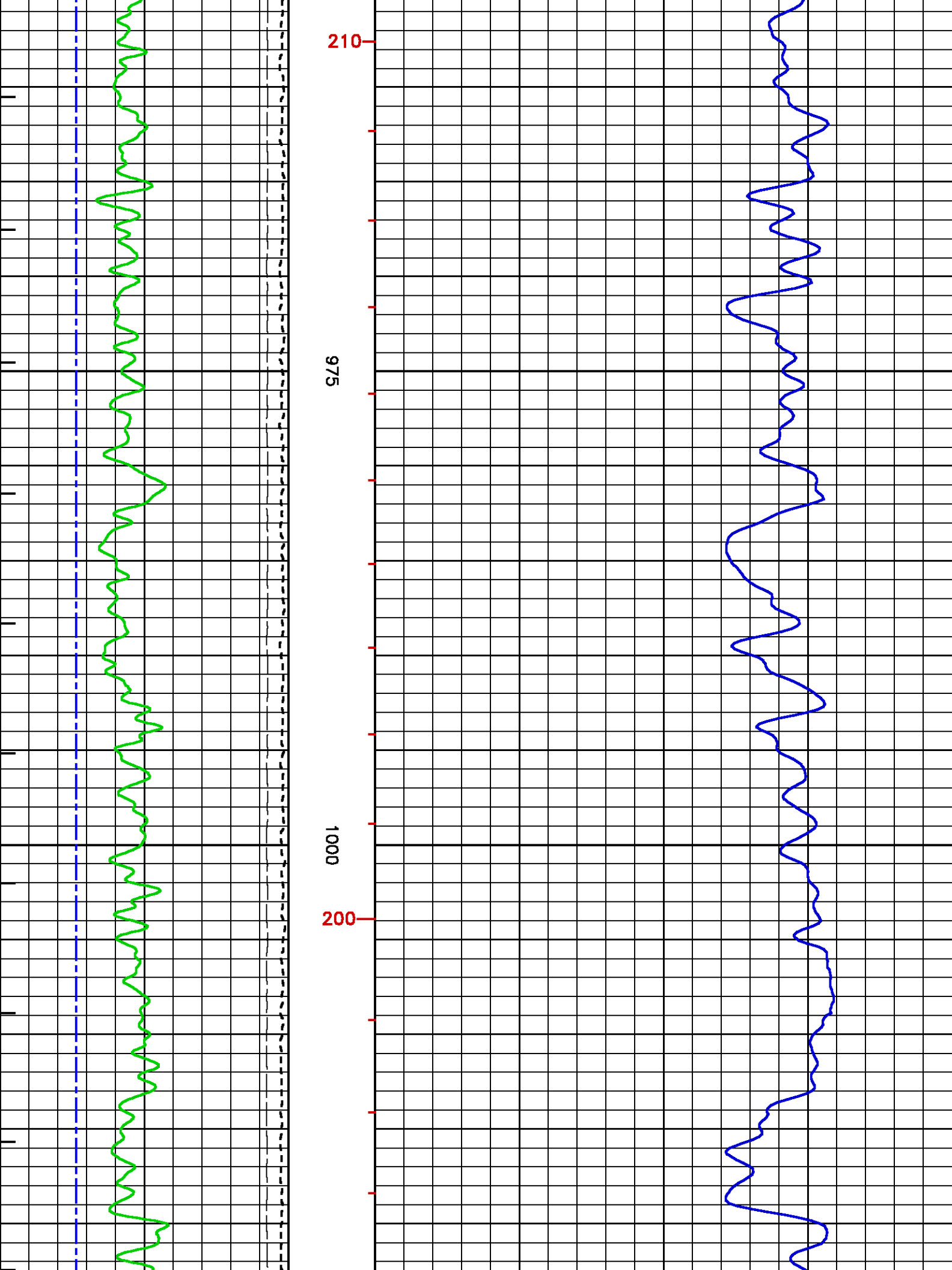
Presentation : cpu1:/dat1a/pass/vulcan/mac\_main100-500.pdf [1:240 Scale]  
 Plot Interval : 800 - 1961.08 Meters

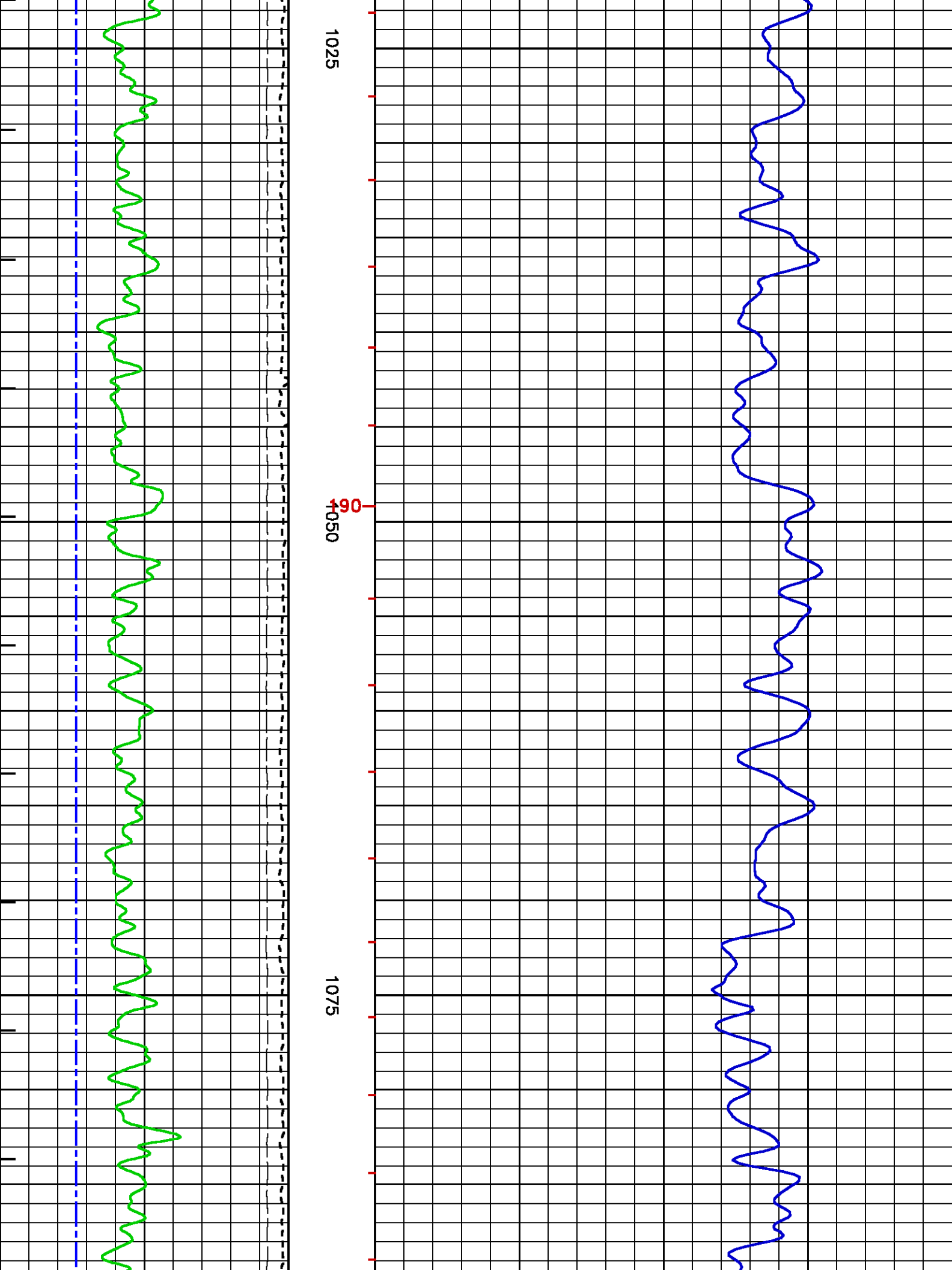
Data File 1 : F1 : cpu1:/dat1a/pass/vulcan/ku833k03.xtf  
 Created On : Nov 25 18:18:32 2009  
 Company : VULCAN MINERALS INC.  
 Well : VULCAN INVESTCAN RED BROOK #2  
 Field : RED BROOK  
 File Interval : 774.878 - 1961.16 Meters  
 Oct : ku833k

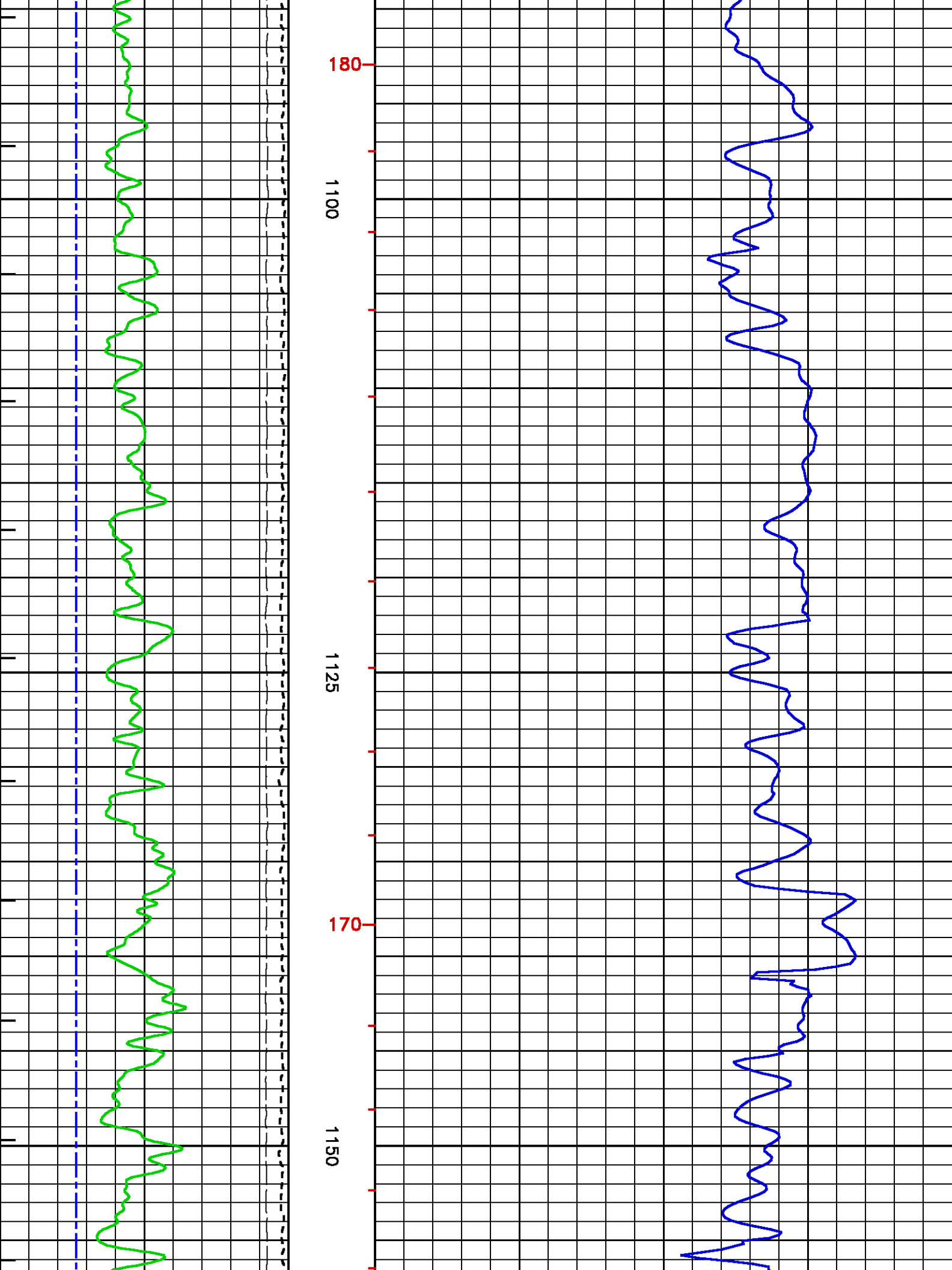


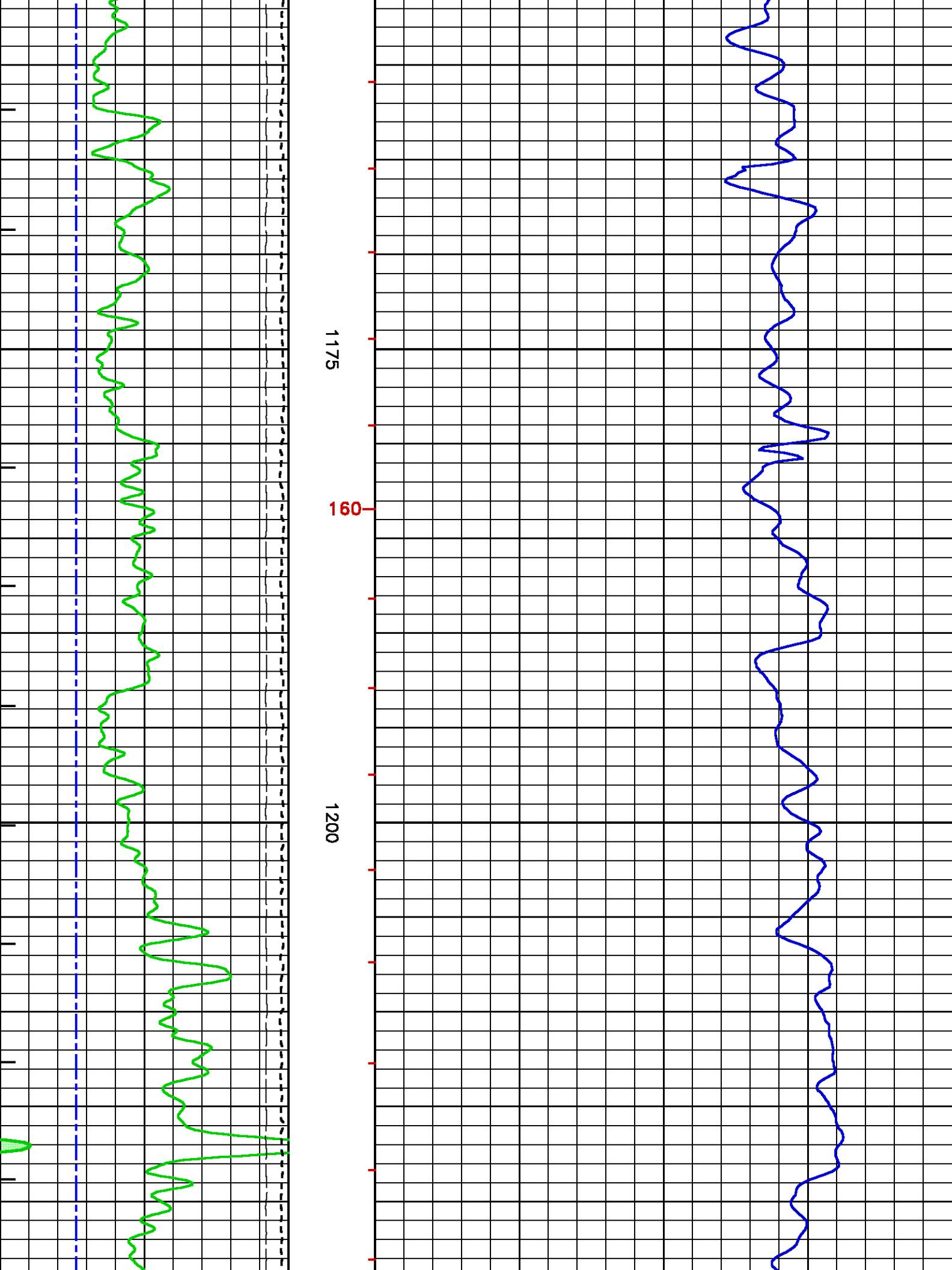


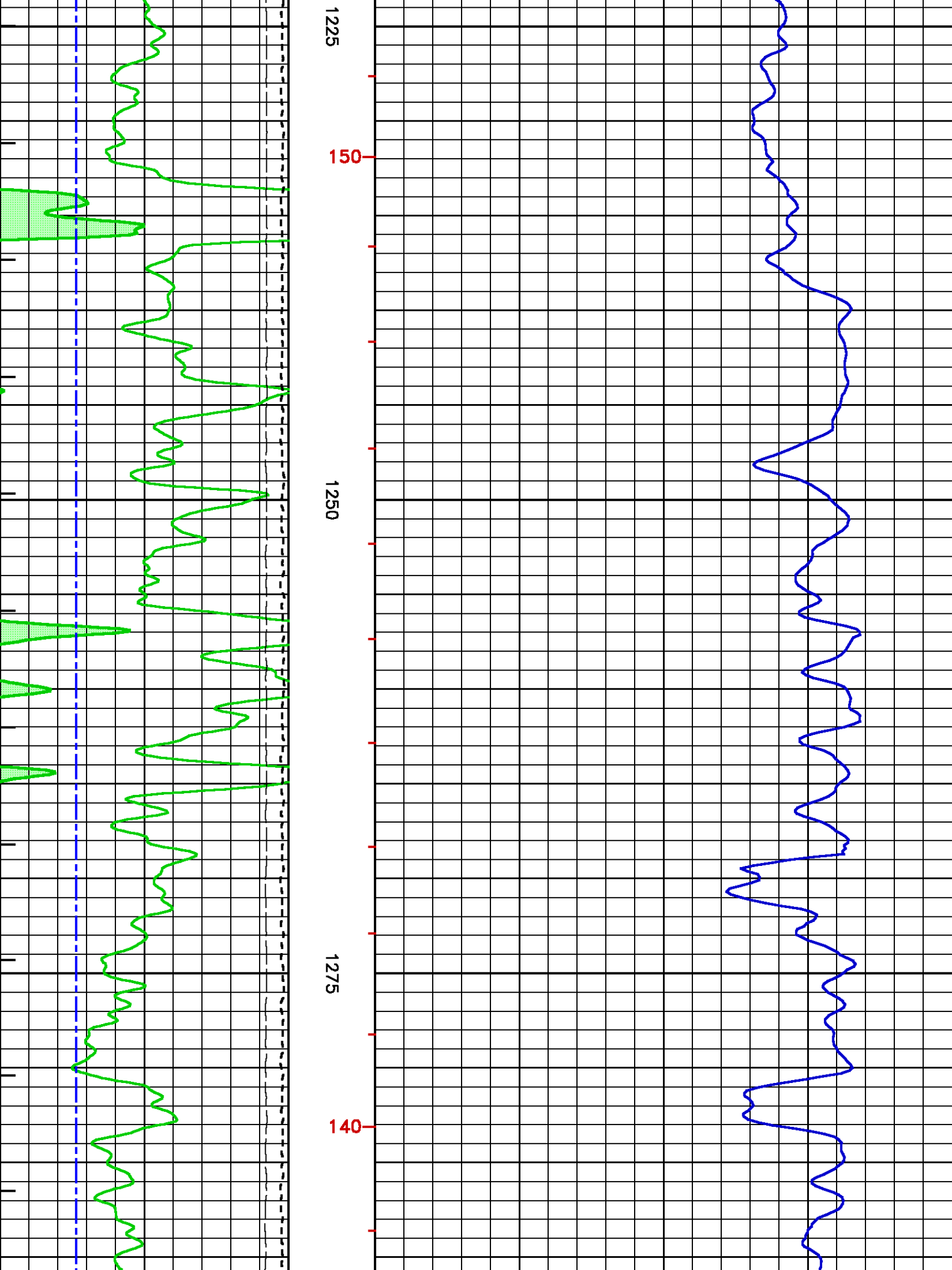




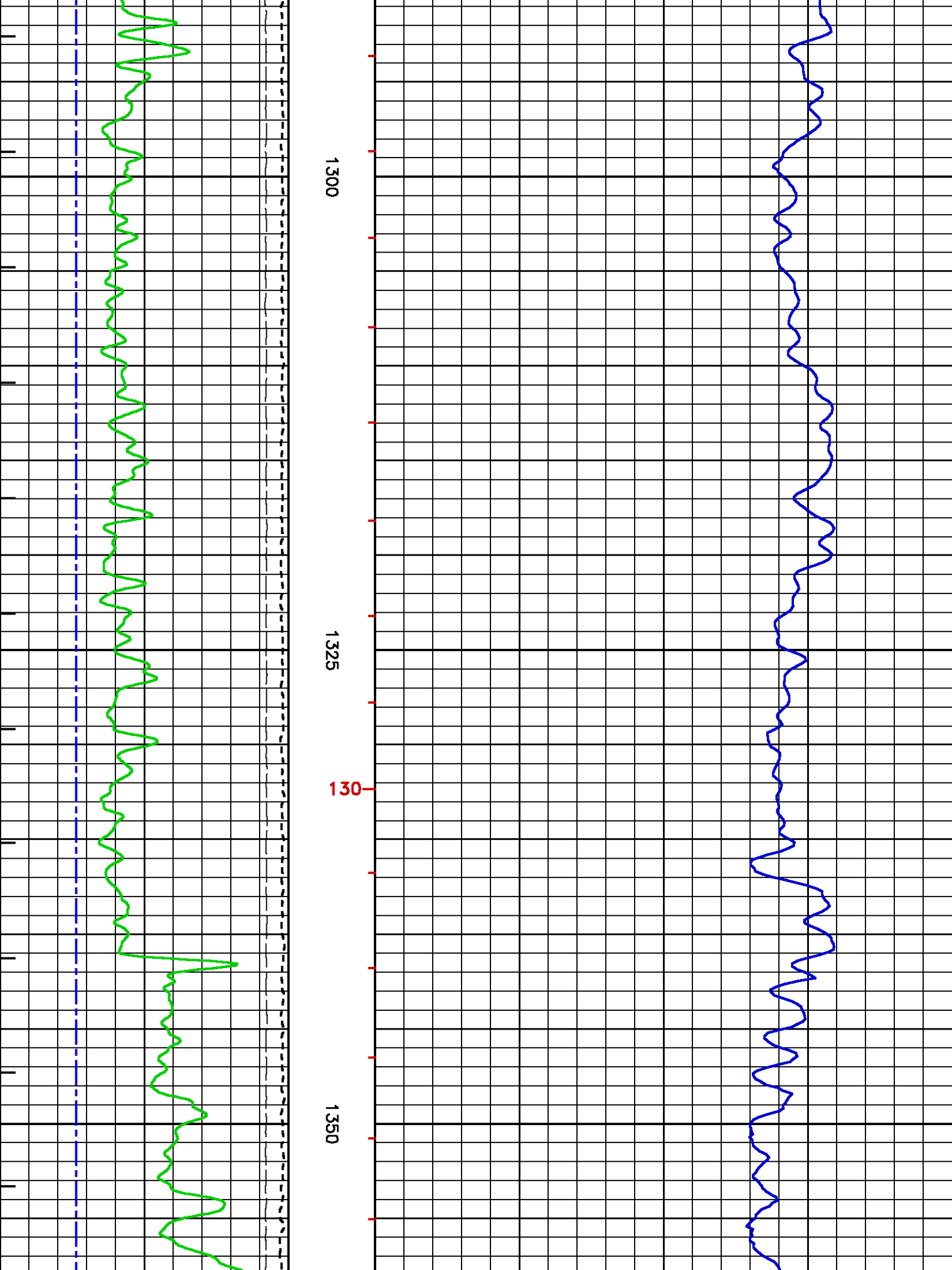


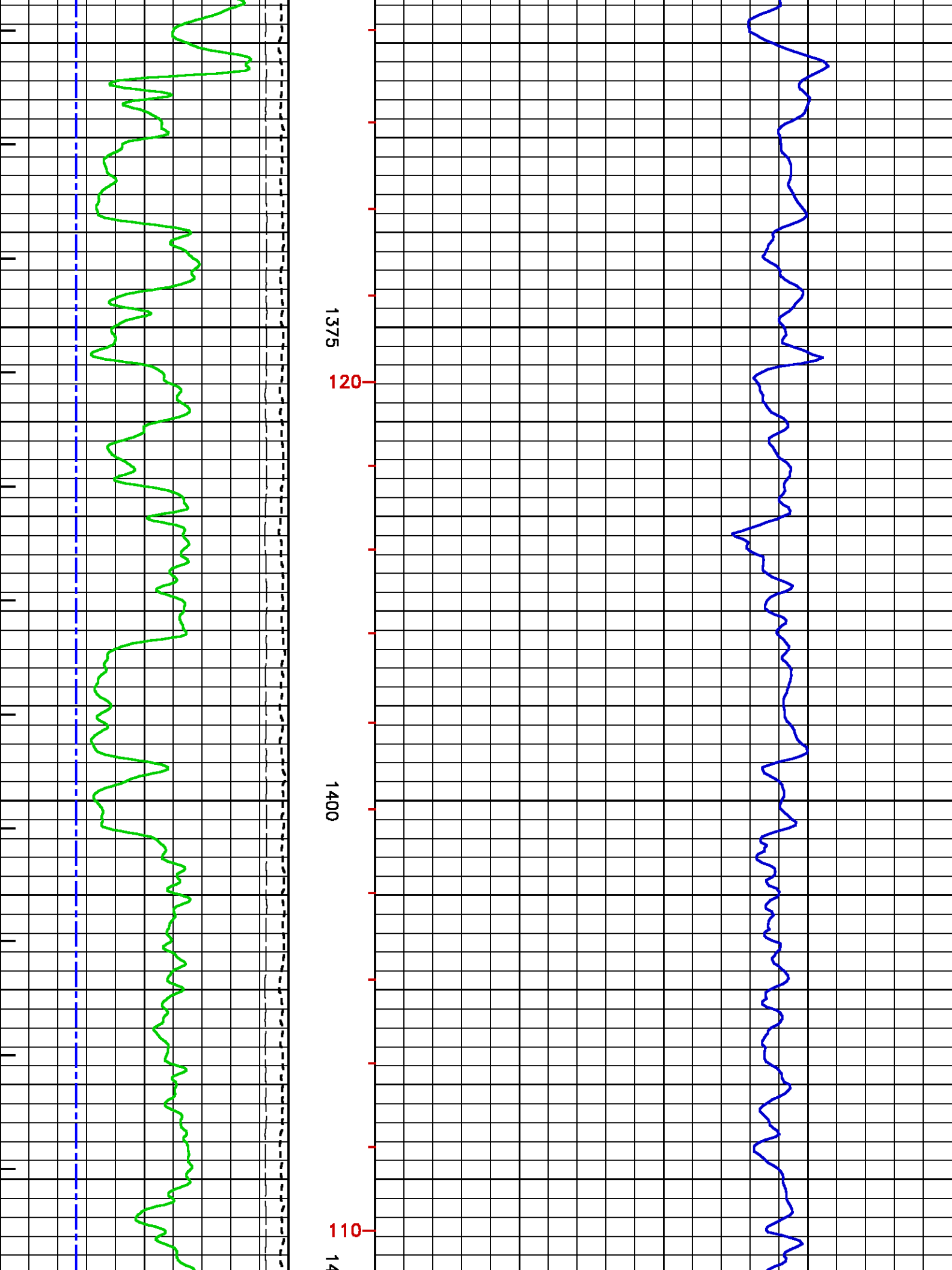


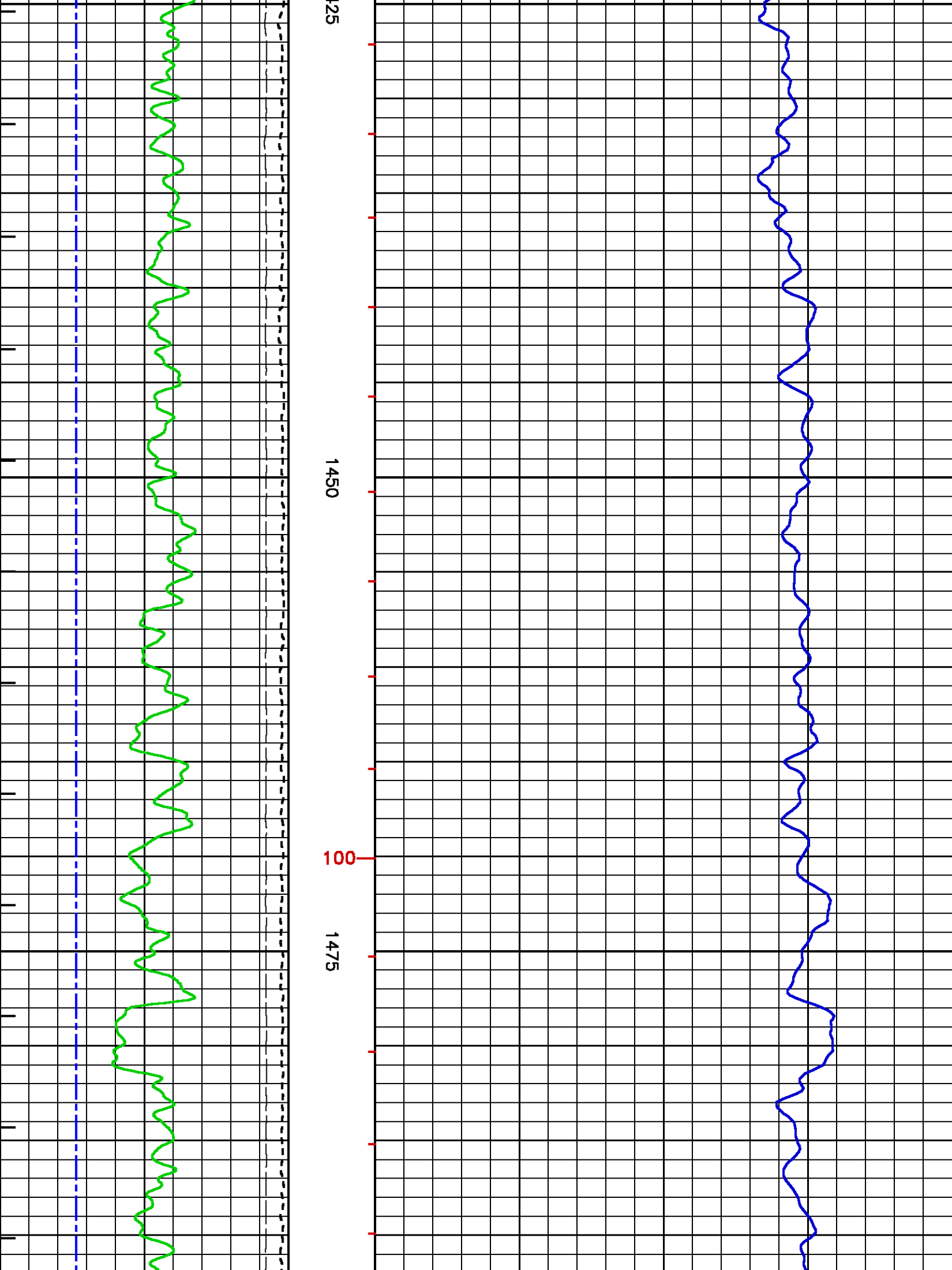


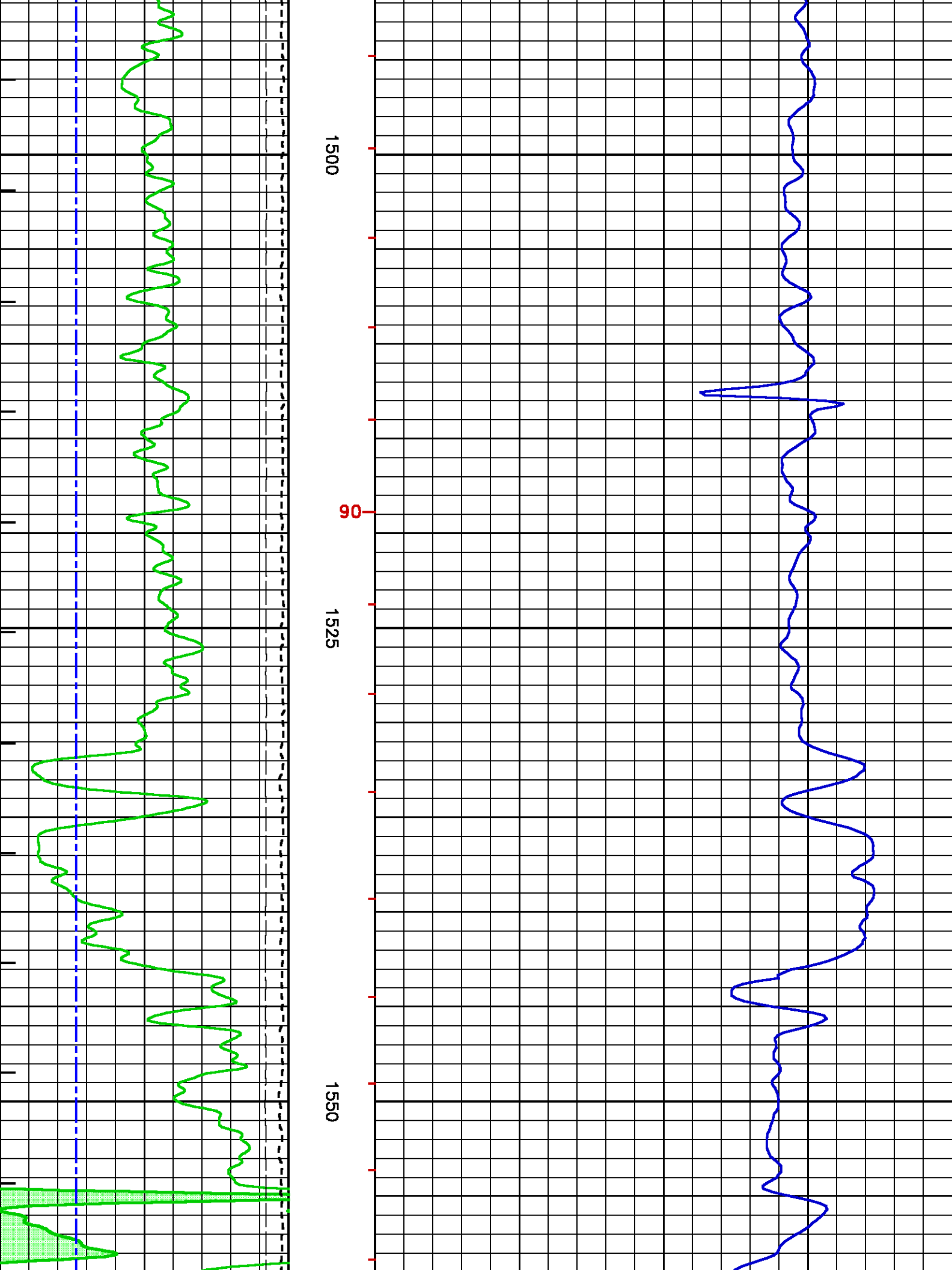


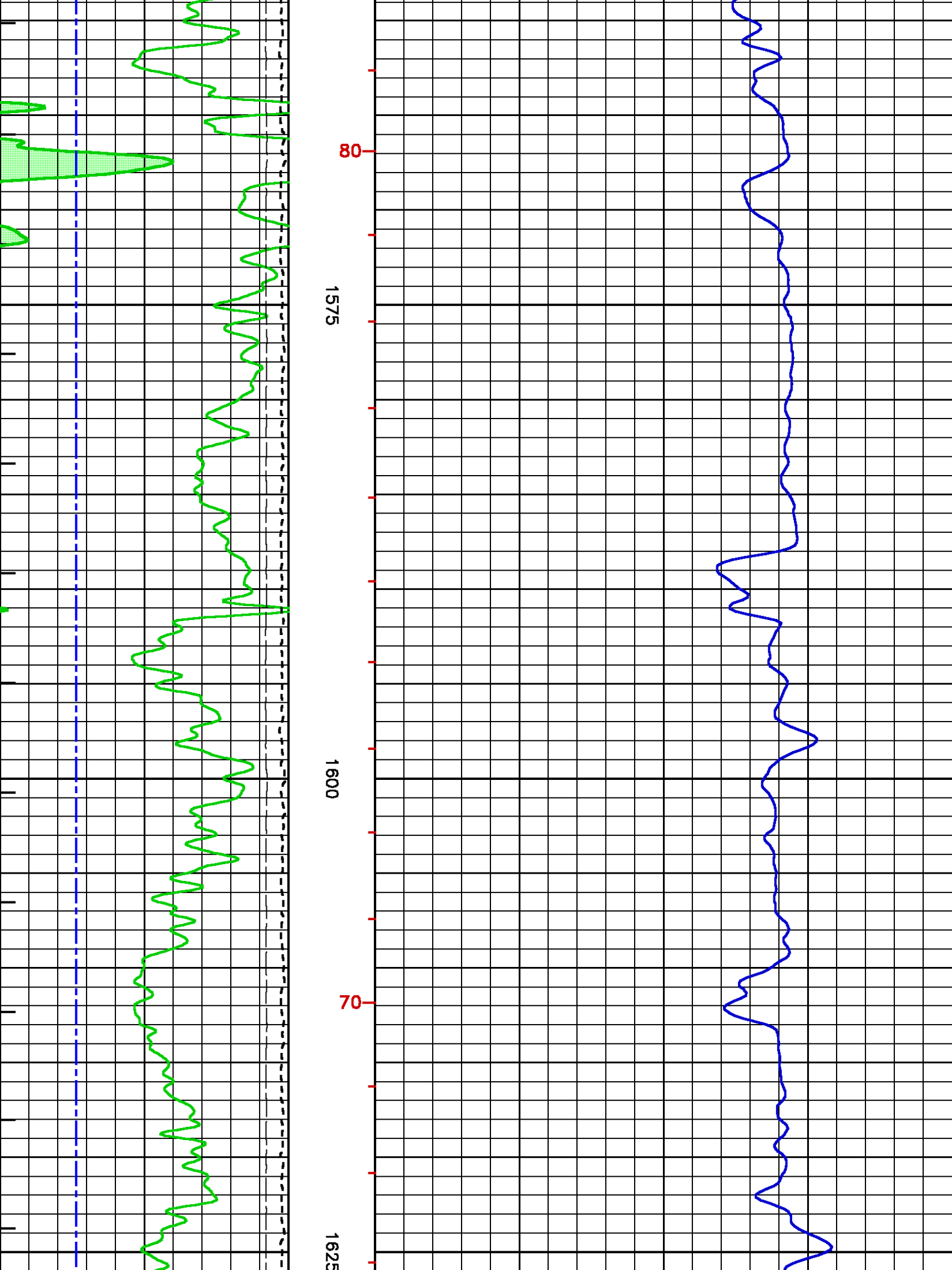


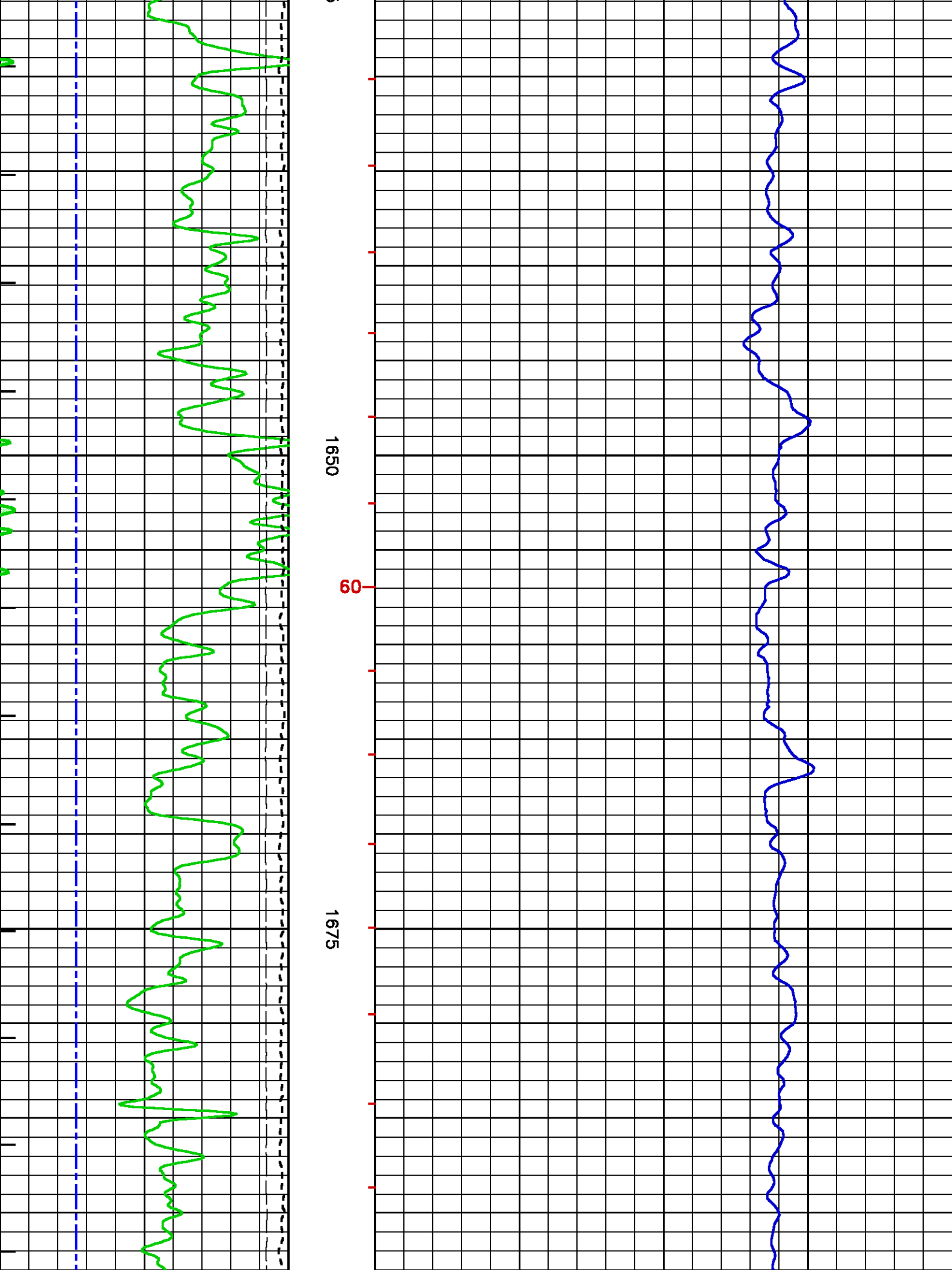


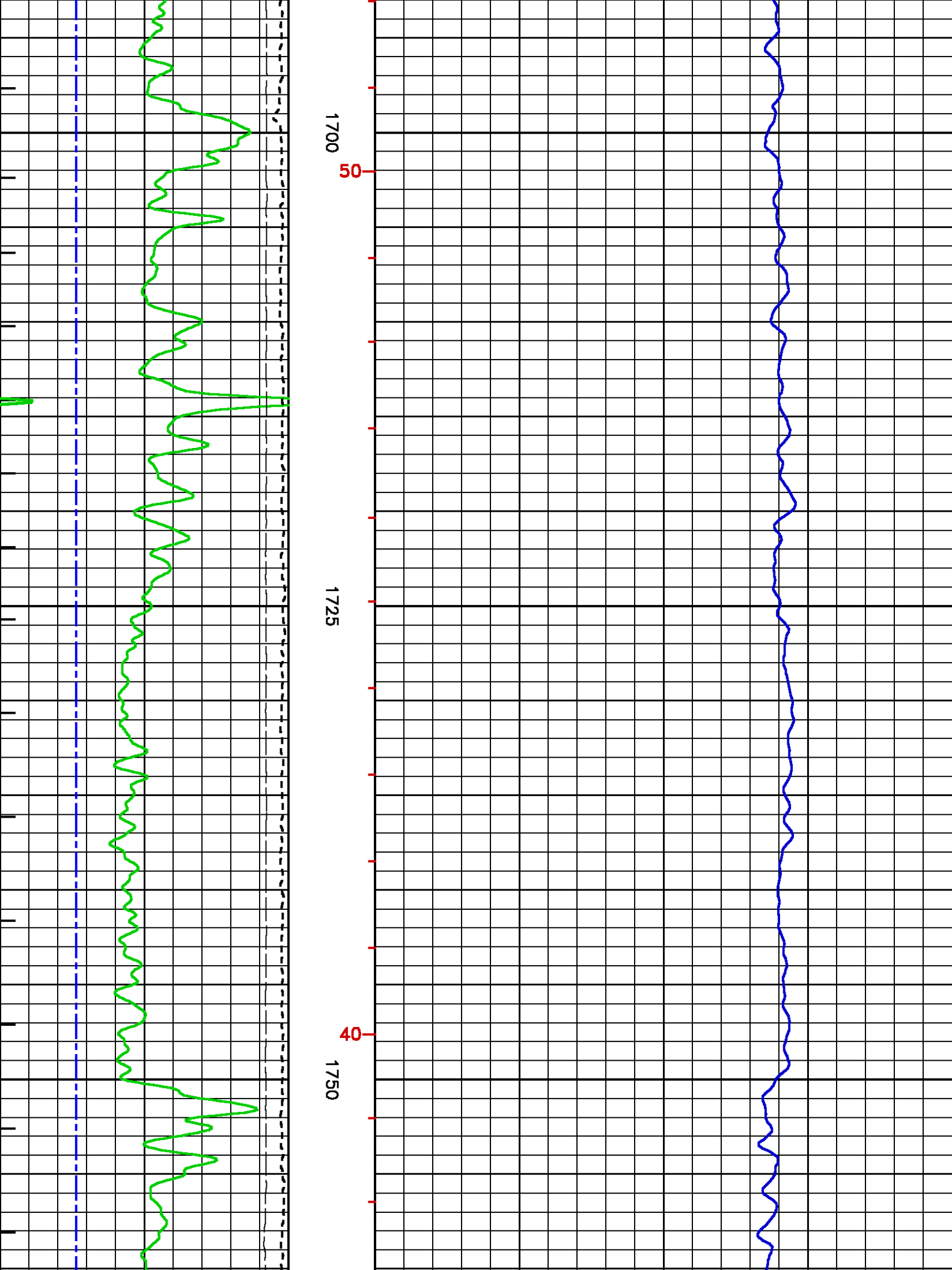


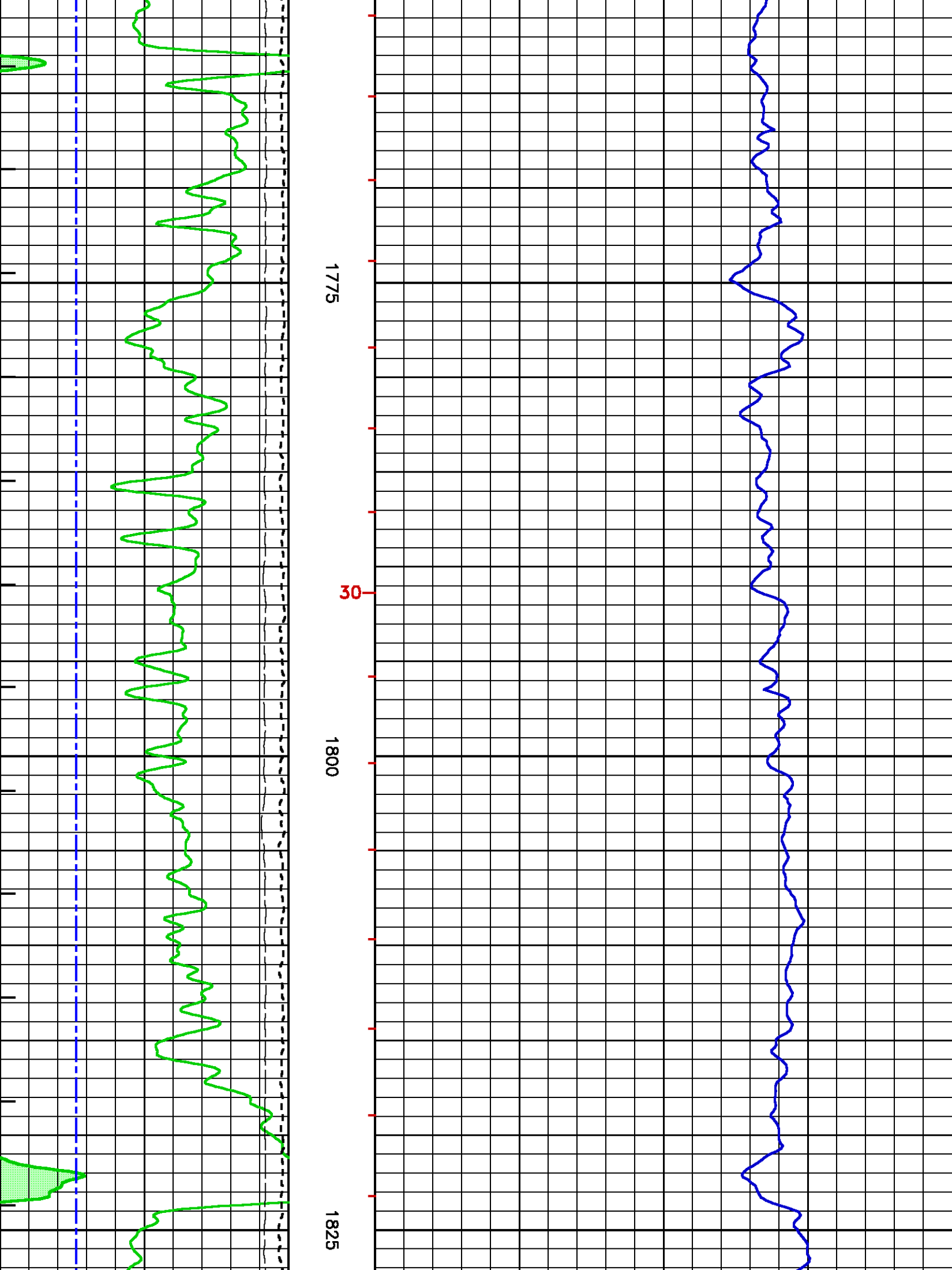




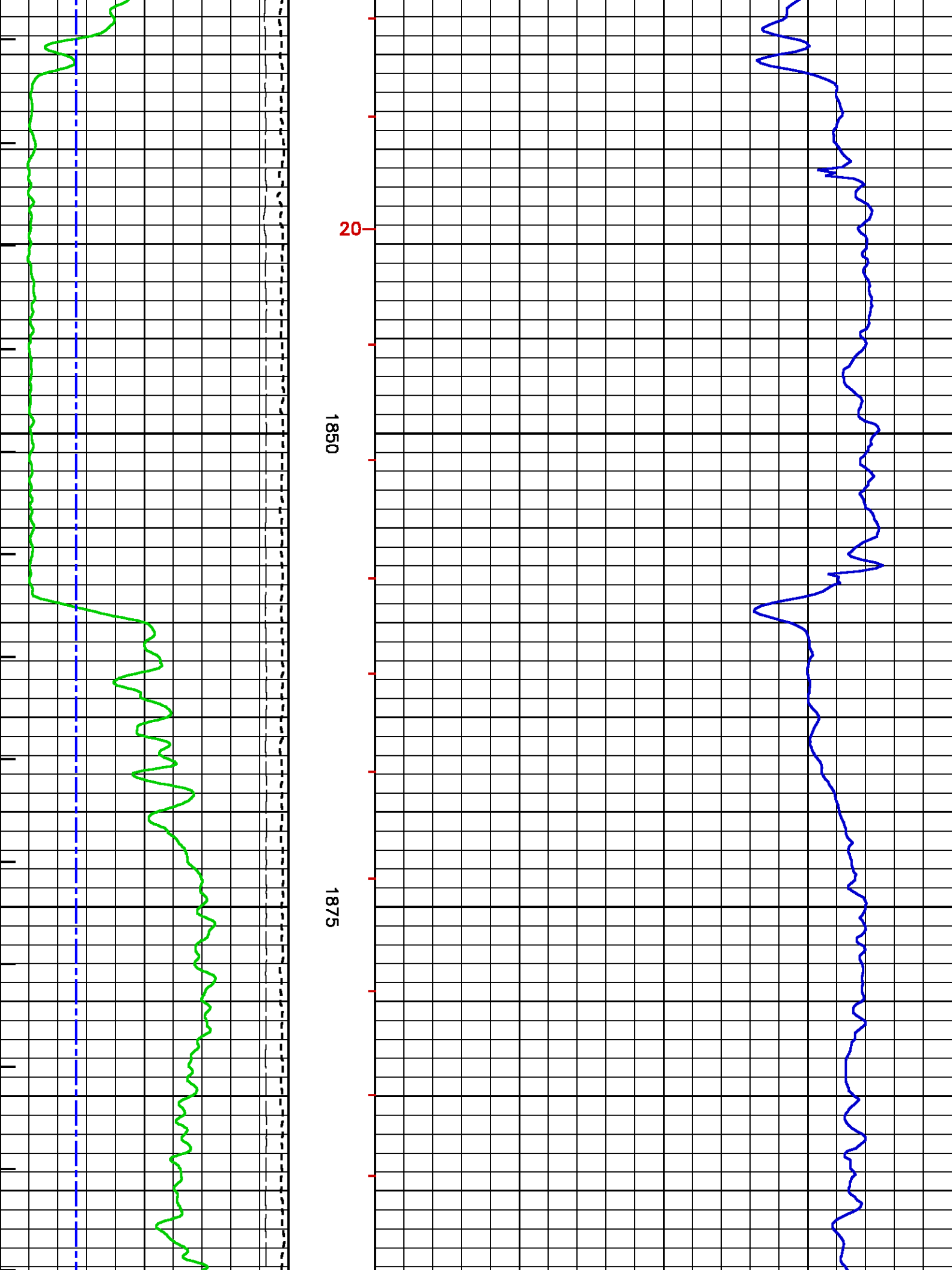


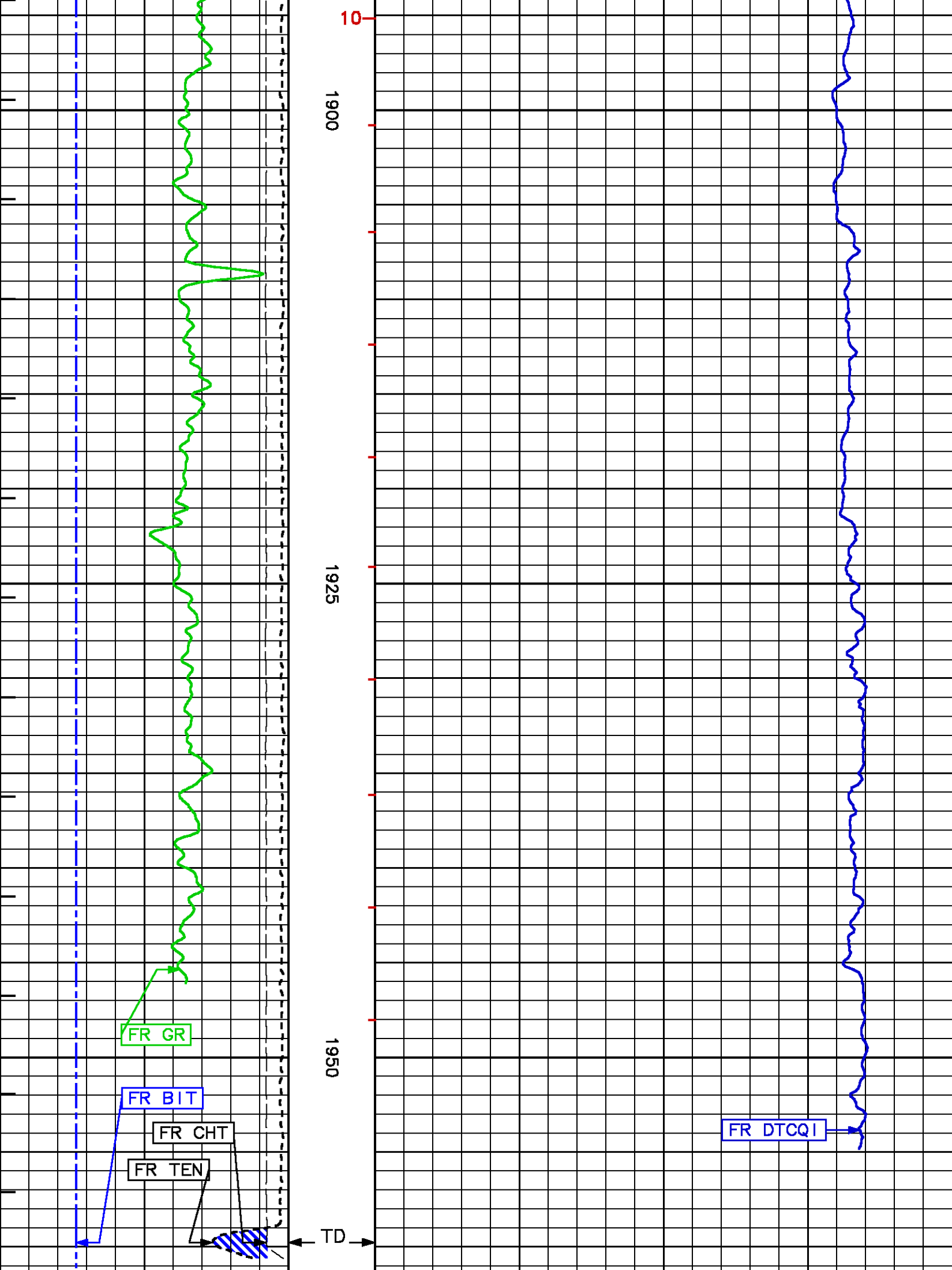


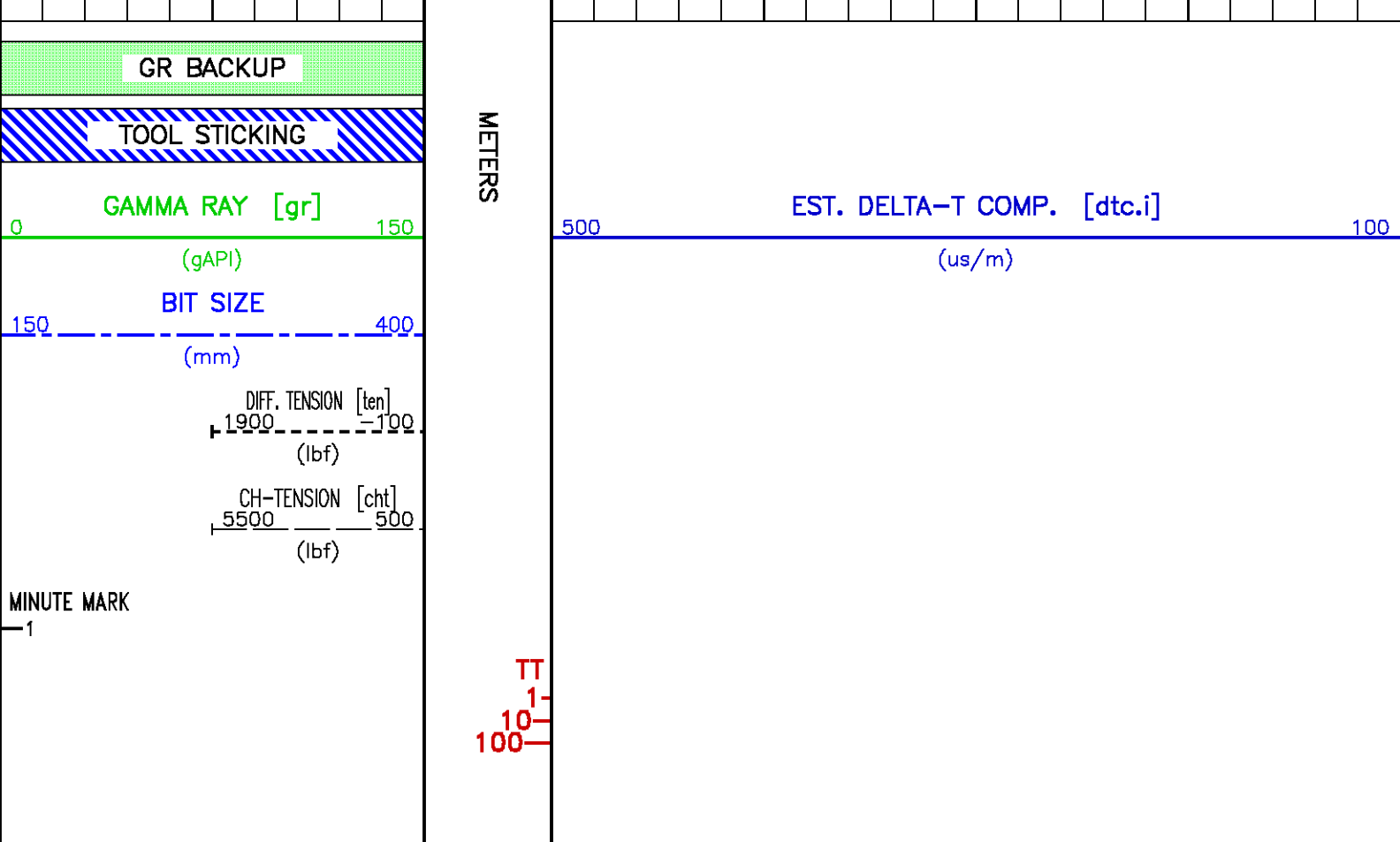












## REPEAT LOG

ECLIPS 6.0i Feb 21, 2008  
Updates: 1,40,43

Wed Nov 25 21:55:12 2009

Pcrplt /main/62

Cplot

Pdf\_Cpp /main/16

Fileview 5.42

### PARAMETER AND FILTER SUMMARY REPORT

FILE: /data/pass/vulcan/ku833kr01.prm  
LOGGING MODE: DEPTH DIRECTION: UP  
TOP DEPTH: 1834.896 m BOTTOM DEPTH: 1975.684 m

#### SYMMETRIC FILTER

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (m)	
CHT	FILTER ()	medium (1)		TOP	BOTTOM
TENSION	FILTER ()	medium (1)		"	"
GR	FILTER ()	medium (1)		"	"

#### BOREHOLE & CEMENT

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (m)	
BIT SIZE	BIT SIZE	200.025	mm	TOP	BOTTOM

#### ACOUSTIC AVAN CORRELATON

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (m)	
MONOPOLE COMPRESSIONAL	FORMATION TYPE CORRELATION METHOD	GENERIC (MEDIUM) NTH BOOT		TOP	BOTTOM

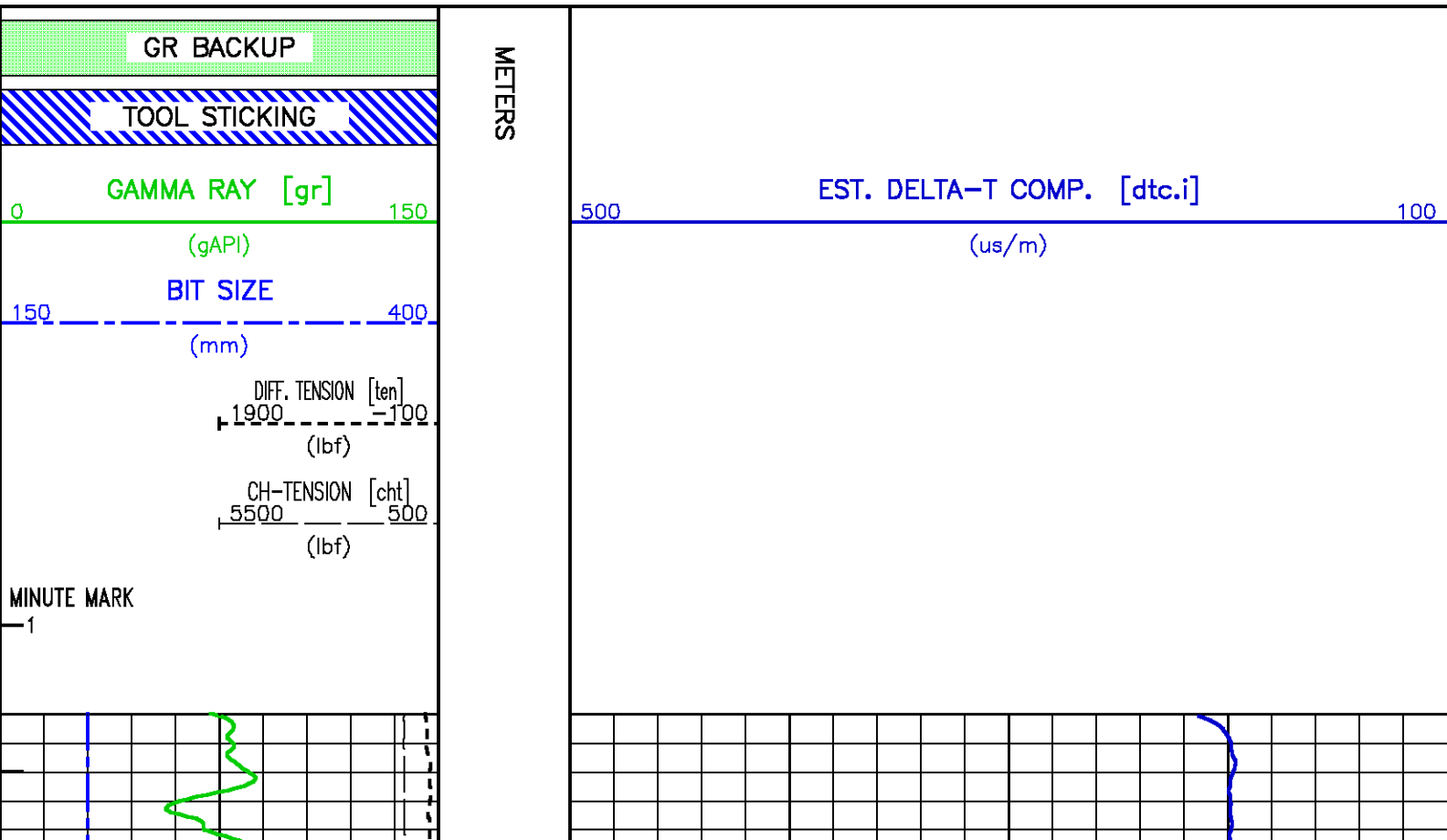
CORRELATION METHOD	NTH ROOT				
RESET TAPERS					
TAPER - LEFT END	100	us/m			
TAPER - RIGHT END	290	us/m			
FLOOR (UNIV. OPTION)	0.000		TOP	1969.741	
	0.050		1969.741	BOTTOM	

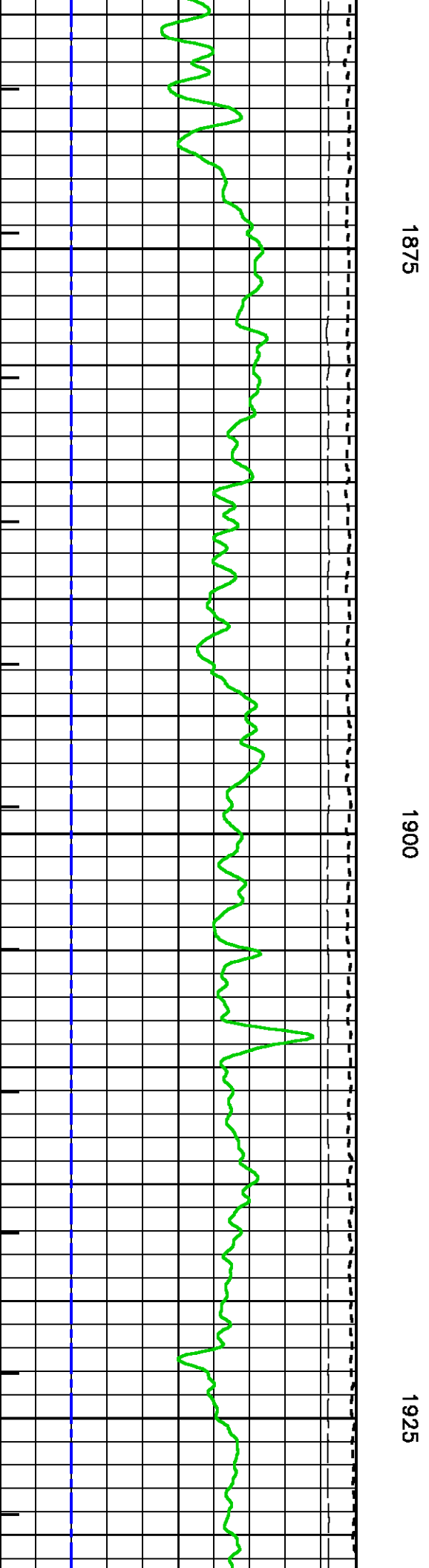
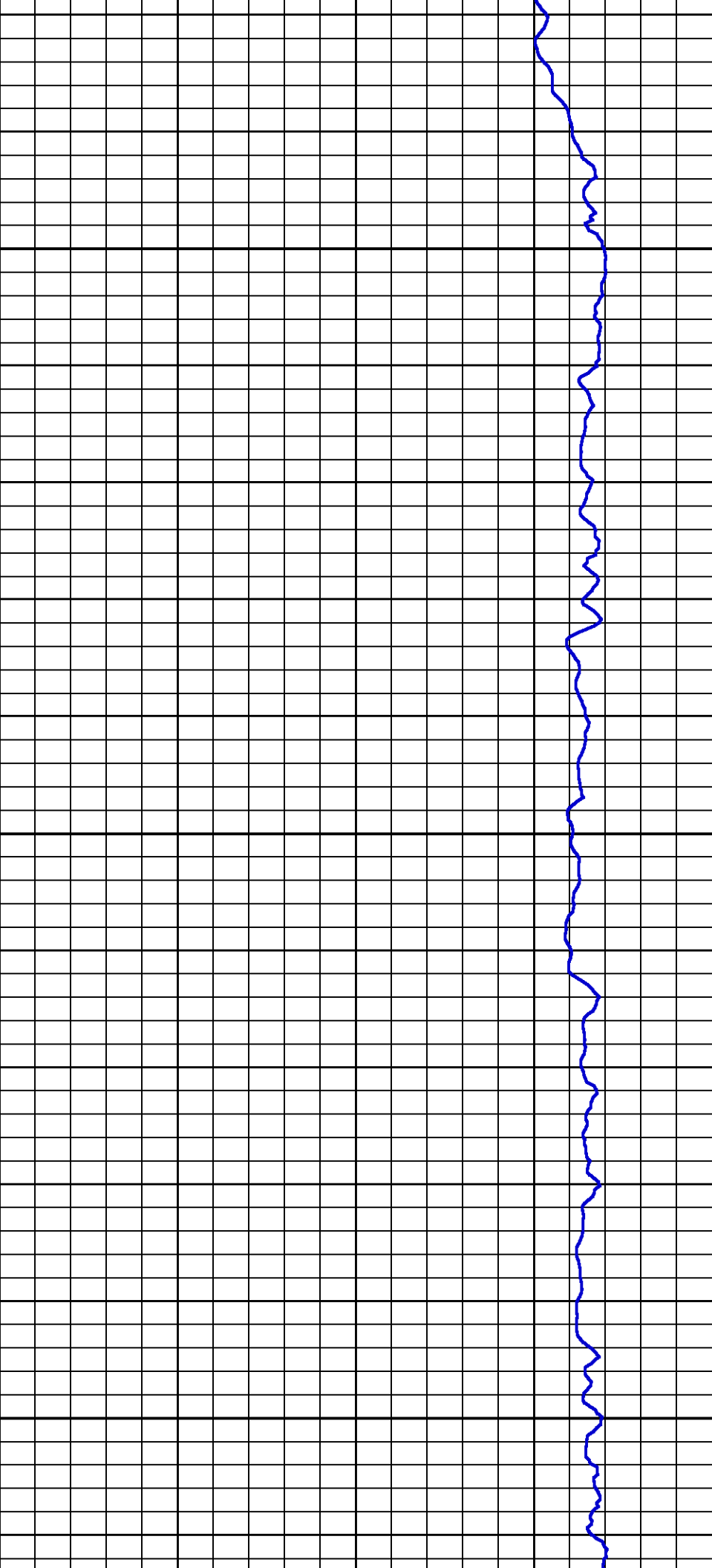
ACOUSTIC WAVEFORM FILTER					
MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (m)	
WAVEFORM FILTER - FULLWAVE	SURFACE WAVE FILTER	ON		TOP	BOTTOM
	LOW FREQ CUTOFF	1500	Hz		
	HIGH FREQ CUTOFF	20000	Hz		

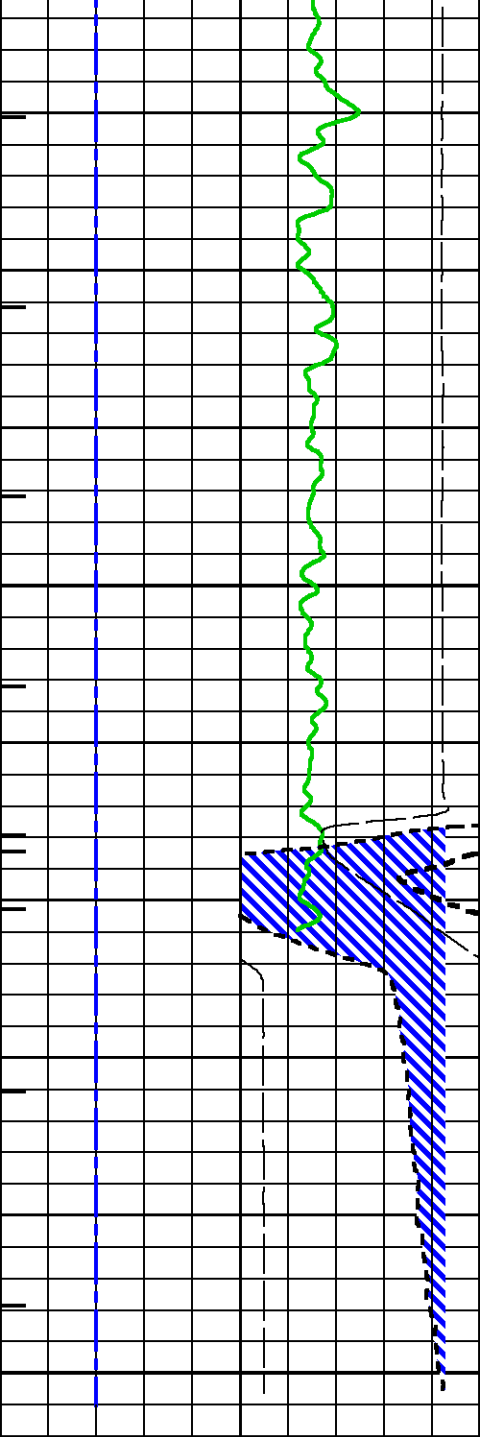
CURVE DESCRIPTION REPORT				
CURVE NAME	CURVE ALIAS	CREATION DATE	CURVE DESCRIPTION	
F1:BIT	BIT	Nov 25 21:38:50 2009	BIT SIZE	
F1:CHT	CHT	Nov 25 21:38:50 2009	CABLE HEAD TENSION	
F1:DTCQI	DTC.I	Nov 25 21:38:50 2009	COMPRESSIONAL WAVE SLOWNESS	
F1:GR	GR	Nov 25 21:38:50 2009	GAMMA RAY	
F1:MMRK	MMRK	Nov 25 21:38:50 2009	MINUTE MARK	
F1:TEN	TEN	Nov 25 21:38:50 2009	DIFFERENTIAL TENSION	

CURVE MEASURE POINT OFFSET							
CURVE	OFFSET (m)	CURVE	OFFSET (m)	CURVE	OFFSET (m)	CURVE	OFFSET (m)
BIT	0.00	DTCQI	5.94	TEN	0.00		
CHT	0.00	GR	14.40				

Presentation	: cpu1:/dat1a/pass/vulcan/mac_rpt100-500.pdf [1:240 Scale]
Plot Interval	: 1860 - 1974.95 Meters
Data File 1	: F1 : cpu1:/dat1a/pass/vulcan/ku833kR01.xtf
Created On	: Nov 25 21:38:50 2009
Company	: VULCAN MINERALS INC.
Well	: VULCAN INVESTCAN RED BROOK #2
Field	: RED BROOK
File Interval	: 1816.61 - 1974.95 Meters
Oct	: ku833k







1950

1975

METERS

GR BACKUP

TOOL STICKING

GAMMA RAY [gr]

(gAPI)

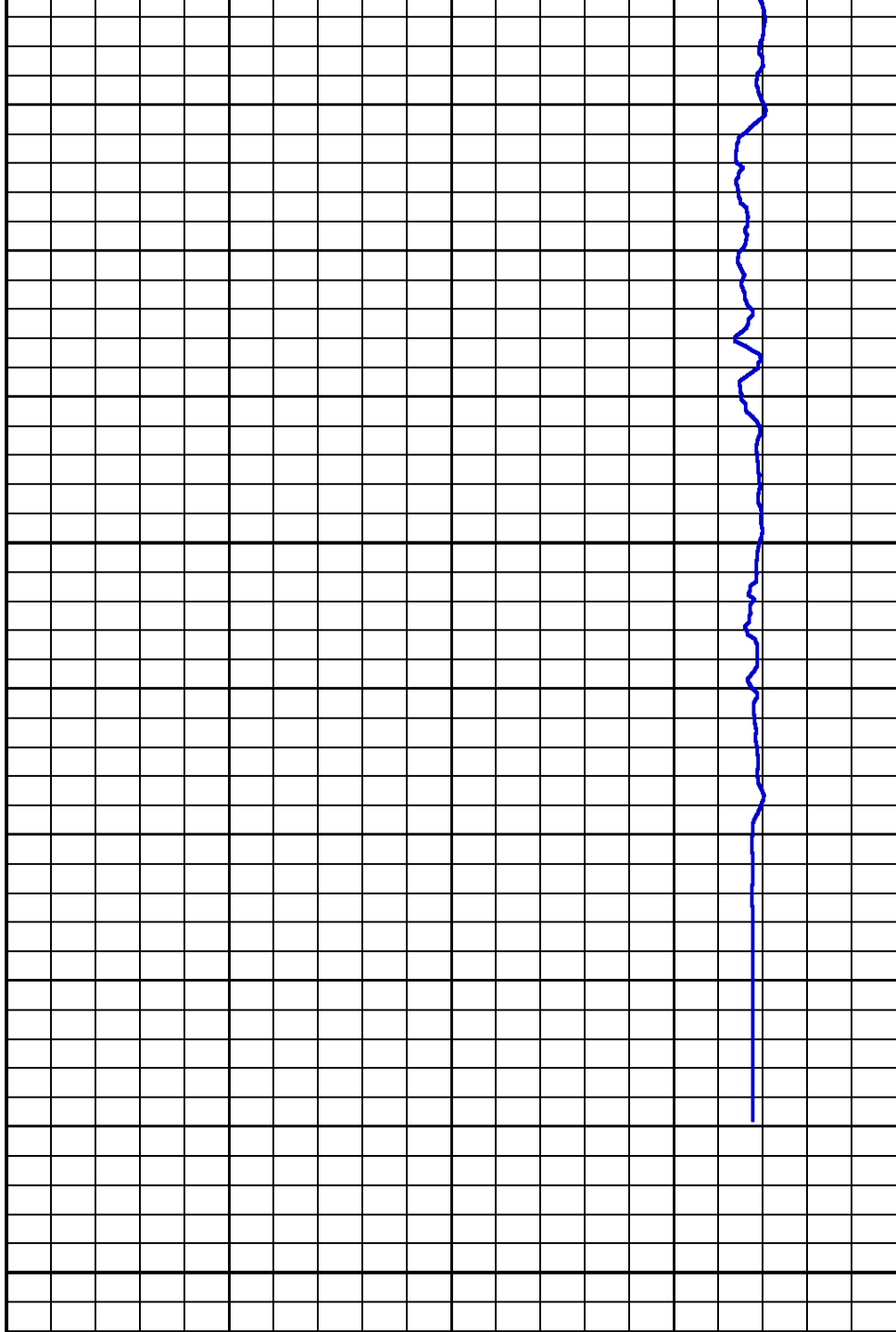
BIT SIZE

(mm)

DIFF. TENSION [ten]  
1900 100  
(lbf)

CH-TENSION [cht]  
5500 500  
(lbf)

MINUTE MARK



EST. DELTA-T COMP. [dtc.i]

500

100

(us/m)

# QUALITY CONTROL PRESENTATION

ECLIPS 6.0i Feb 21, 2008  
Updates: 1,40,43

Wed Nov 25 21:54:39 2009

Pcrplt /main/62

Cplot

Pdf\_Cpp /main/16

Fileview 5.42

## PARAMETER AND FILTER SUMMARY REPORT

FILE: /data/pass/vulcan/ku833k03.prm  
LOGGING MODE: DEPTH DIRECTION: UP  
TOP DEPTH: 792.328 m BOTTOM DEPTH: 1960.784 m

### SYMMETRIC FILTER

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (m)	
CHT	FILTER ( )	medium (1)		TOP	BOTTOM
TENSION	FILTER ( )	medium (1)		''	''
GR	FILTER ( )	medium (1)		''	''
DT24	FILTER ( )	light (2)		''	''

### BOREHOLE & CEMENT

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (m)	
BIT SIZE	BIT SIZE	216.000	mm	TOP	BOTTOM
BOREHOLE CORR DIAMETER SOURCE	CALIPER/FIXED DIA. (acbh*)	USE CALIPER		''	''
BOREHOLE CORR DIAMETER	FIXED DIAMETER (acbh*)	216.000	mm	''	''

### ACOUSTIC AVAN CORRELATON

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (m)	
MONOPOLE DELTA T	FORMATION TYPE	GENERIC (MEDIUM)		TOP	BOTTOM
	CORRELATION METHOD	NTH ROOT		''	''
	RESET TAPERS			''	''
	TAPER - LEFT END	100	us/m	TOP	1883.099
		184	us/m	1883.099	BOTTOM
	TAPER - RIGHT END	350	us/m	TOP	958.803
		320	us/m	958.803	1017.904
		352	us/m	1017.904	1430.143
		300	us/m	1430.143	1524.145
		280	us/m	1524.145	1536.682
		330	us/m	1536.682	1818.139
		270	us/m	1818.139	1853.260
		300	us/m	1853.260	1882.652
		450	us/m	1882.652	BOTTOM
	FLOOR (UNIV. OPTION)	0.000		TOP	1884.045
		0.050		1884.045	BOTTOM
MONOPOLE COMPRESSIONAL	FORMATION TYPE	GENERIC (MEDIUM)		TOP	BOTTOM
	CORRELATION METHOD	NTH ROOT		''	''
	RESET TAPERS			''	''
	TAPER - LEFT END	90	us/m	TOP	1272.921
		100	us/m	1272.921	BOTTOM
	TAPER - RIGHT END	300	us/m	TOP	881.352
		350	us/m	881.352	985.098
		300	us/m	985.098	990.902
		330	us/m	990.902	999.058
		300	us/m	999.058	1007.084
		330	us/m	1007.084	1016.889
		300	us/m	1016.889	1018.966
		330	us/m	1018.966	1052.981
		350	us/m	1052.981	1063.894
		370	us/m	1063.894	1073.125
		350	us/m	1073.125	1088.955
		330	us/m	1088.955	1094.872
		380	us/m	1094.872	1101.902

	360	us/m	1101.902	1103.698
	330	us/m	1103.698	1118.997
	350	us/m	1118.997	1134.500
	330	us/m	1134.500	1135.135
	280	us/m	1135.135	1138.199
	330	us/m	1138.199	1138.929
	370	us/m	1138.929	1142.771
	400	us/m	1142.771	1154.617
	380	us/m	1154.617	1157.330
	350	us/m	1157.330	1163.920
	380	us/m	1163.920	1165.174
	350	us/m	1165.174	1178.495
	300	us/m	1178.495	1215.619
	330	us/m	1215.619	1269.416
	320	us/m	1269.416	1280.824
	310	us/m	1280.824	1293.744
	330	us/m	1293.744	1300.810
	300	us/m	1300.810	1314.199
	330	us/m	1314.199	1334.795
	300	us/m	1334.795	1336.777
	330	us/m	1336.777	1339.477
	360	us/m	1339.477	1351.660
	340	us/m	1351.660	1367.368
	360	us/m	1367.368	1388.440
	340	us/m	1388.440	1395.838
	370	us/m	1395.838	1417.463
	350	us/m	1417.463	1420.242
	370	us/m	1420.242	1421.331
	350	us/m	1421.331	1432.789
	330	us/m	1432.789	1435.379
	300	us/m	1435.379	1455.344
	330	us/m	1455.344	1459.429
	300	us/m	1459.429	1462.626
	330	us/m	1462.626	1466.878
	300	us/m	1466.878	1471.558
	330	us/m	1471.558	1475.918
	280	us/m	1475.918	1479.099
	330	us/m	1479.099	1510.129
	350	us/m	1510.129	1510.513
	380	us/m	1510.513	1511.091
	350	us/m	1511.091	1511.671
	300	us/m	1511.671	1531.087
	330	us/m	1531.087	1533.011
	280	us/m	1533.011	1536.947
	310	us/m	1536.947	1538.773
	340	us/m	1538.773	1541.372
	370	us/m	1541.372	1543.404
	350	us/m	1543.404	1553.489
	330	us/m	1553.489	1554.861
	350	us/m	1554.861	1563.806
	380	us/m	1563.806	1587.132
	350	us/m	1587.132	1654.073
	330	us/m	1654.073	1745.513
	350	us/m	1745.513	1747.567
	380	us/m	1747.567	1773.860
	350	us/m	1773.860	1793.672
	330	us/m	1793.672	1812.689
	350	us/m	1812.689	1819.123
	370	us/m	1819.123	1821.372
	350	us/m	1821.372	1821.999
	330	us/m	1821.999	1829.333
	270	us/m	1829.333	1855.370
	300	us/m	1855.370	1856.266
	330	us/m	1856.266	1856.895
	350	us/m	1856.895	1858.137
	300	us/m	1858.137	BOTTOM
FLOOR (UNIV. OPTION)	0.000		TOP	1883.238
	0.050		1883.238	BOTTOM
MONOPOLE SHEAR				
FORMATION TYPE		GENERIC (MEDIUM)	TOP	BOTTOM
GUIDE CURVE		DO NOT USE GUIDE	"	"
RESET TAPERS			"	"
TAPER - LEFT END				
	225	us/m	TOP	849.859
	270	us/m	849.859	885.825
	280	us/m	885.825	1159.326
	250	us/m	1159.326	1216.533
	280	us/m	1216.533	1226.744
	250	us/m	1226.744	1260.881
	280	us/m	1260.881	1493.260
	300	us/m	1493.260	1525.094
	270	us/m	1525.094	1535.506
	290	us/m	1535.506	1596.399
	310	us/m	1596.399	1615.291
	330	us/m	1615.291	1688.790
	350	us/m	1688.790	1817.111
	400	us/m	1817.111	BOTTOM
TAPER - RIGHT END			TOP	968.341
	580	us/m	968.341	969.493
	600	us/m	969.493	1151.368
	550	us/m	1151.368	1214.247
	550	us/m	1214.247	1259.357
	580	us/m	1259.357	1407.745
	550	us/m	1407.745	1689.070
	600	us/m	1689.070	1689.735
	650	us/m	1689.735	1814.217
	700	us/m	1814.217	1815.847
	800	us/m	1815.847	BOTTOM

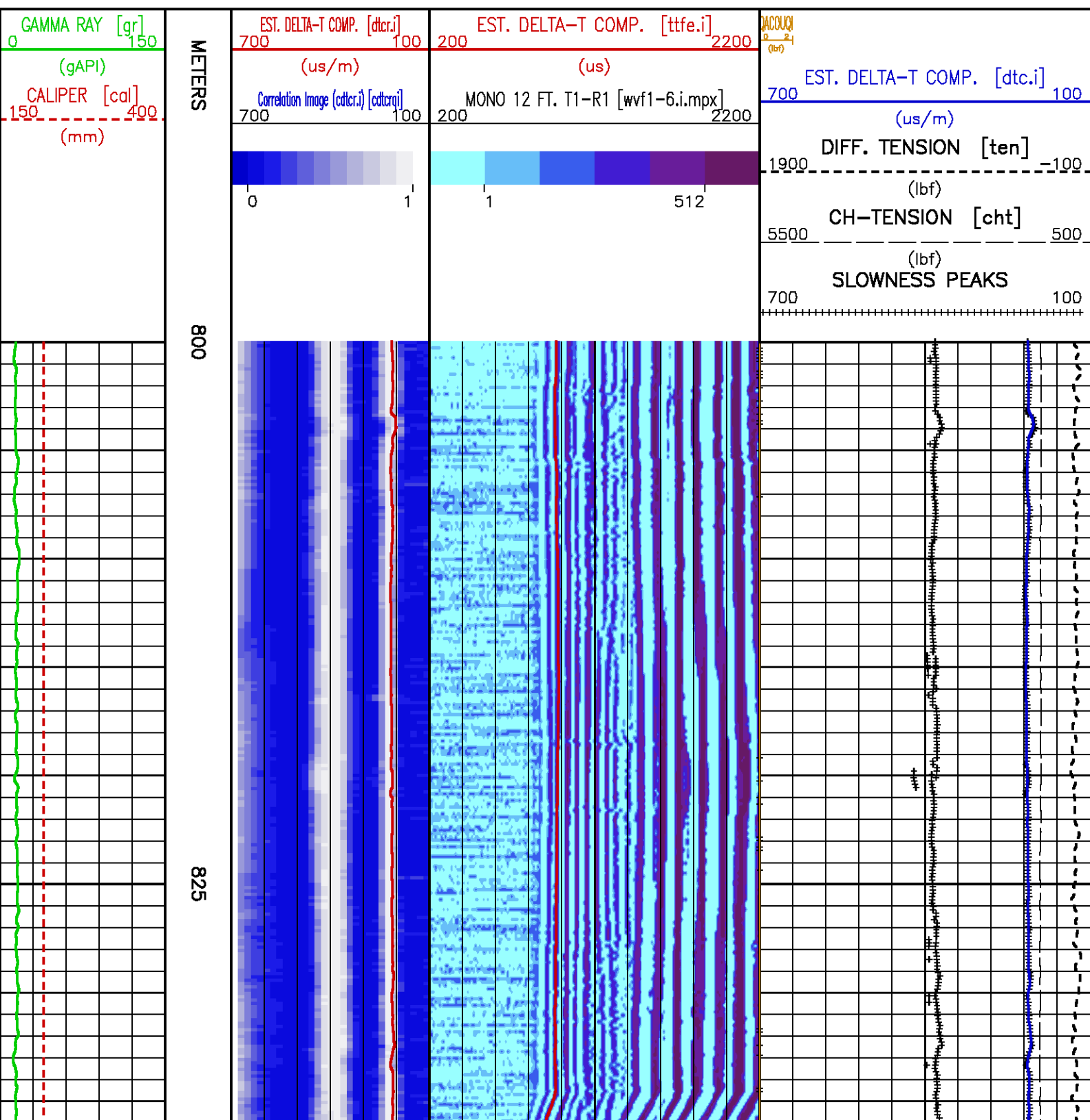


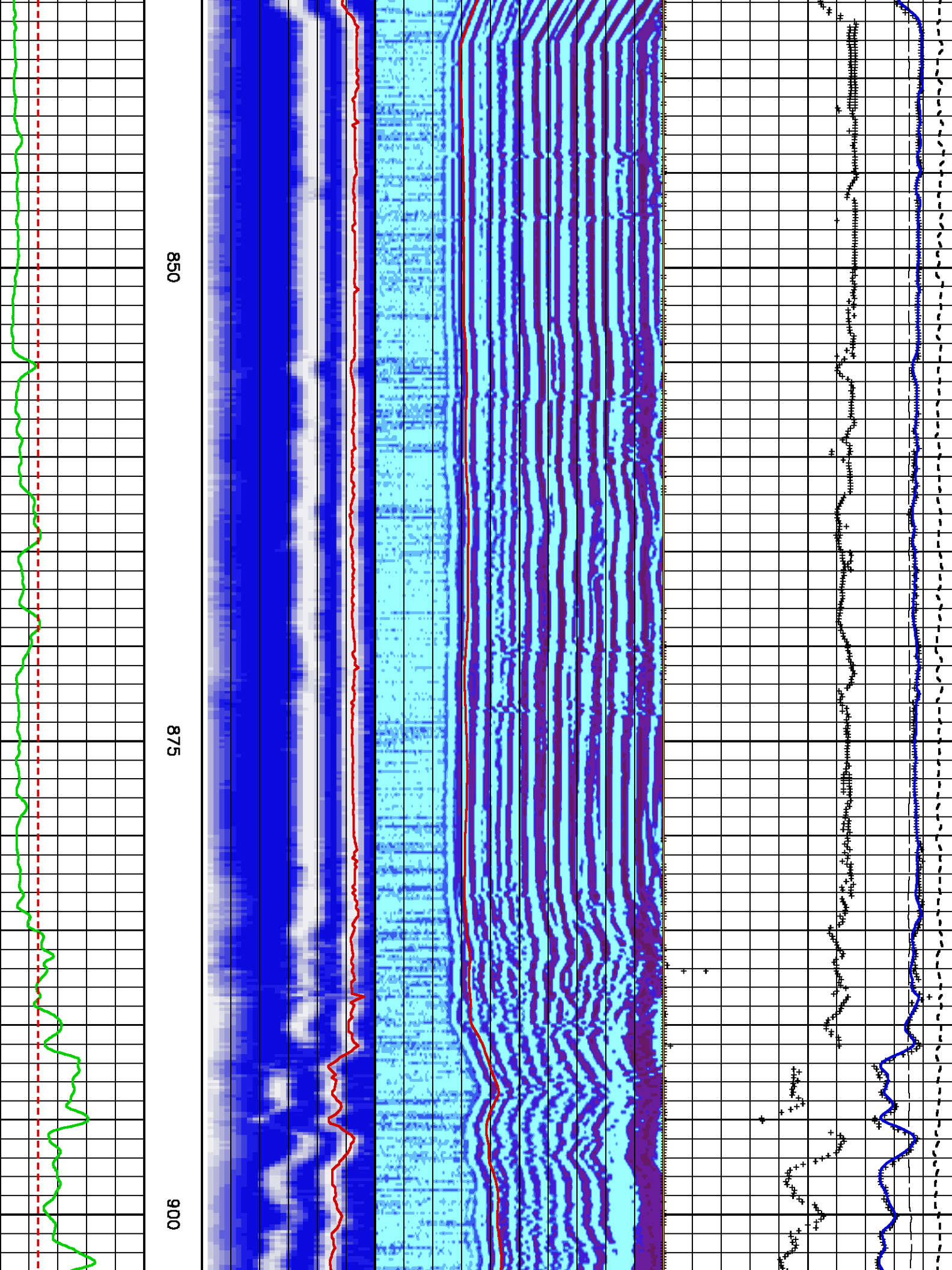
ACOUSTIC POROSITY					
MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (m)	
ACOUSTIC POROSITY	DTfluid	623.36	us/m	TOP	BOTTOM
DELTA T CURVE SELECTION	DT24 SOURCE	AVAN DT24 FIRST ARRIVAL DT24		TOP 1888.160	1888.160 BOTTOM
ACOUSTIC PICK CONTROL					
MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (m)	
DELTA-T REJECTION RANGE	REJECTION DTmin	131	us/m	TOP	BOTTOM
	REJECTION DTmax	591	us/m	''	''
FIRST ARRIVAL PICK	SEARCH START OFFSET {sfa1*}	0	us	''	''
	SEARCH START OFFSET {sfa2*}	0	us	''	''
	SEARCH START OFFSET {sfa3*}	0	us	''	''
	SEARCH START OFFSET {sfa4*}	0	us	''	''
	SEARCH WINDOW LENGTH	1200	us	''	''
	THRESHOLD FACTOR	0.30		''	''
	THRESHOLD MINIMUM {sfa1*}	35		''	''
	THRESHOLD MINIMUM {sfa2*}	35		''	''
	THRESHOLD MINIMUM {sfa3*}	35		''	''
	THRESHOLD MINIMUM {sfa4*}	35		''	''
	E3 THRESHOLD	OFF		''	''
ACOUSTIC QUALITY CONTROL					
MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (m)	
CYCLE SKIP LIMIT	CYCLE SKIP LIMIT	100	us	TOP	BOTTOM
ACOUSTIC DIFF TEN LIMIT	DIFF TENSION LIMIT	500	lbf	''	''
ACOUSTIC WAVEFORM FILTER					
MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (m)	
WAVEFORM FILTER - DELTA T	SURFACE WAVE FILTER	ON		TOP	BOTTOM
	LOW FREQ CUTOFF	7000	Hz	TOP	1879.573
		4000	Hz	1879.573	BOTTOM
	HIGH FREQ CUTOFF	22500	Hz	TOP	1879.127
		20000	Hz	1879.127	BOTTOM
WAVEFORM FILTER - FULLWAVE	SURFACE WAVE FILTER	ON		TOP	BOTTOM
	LOW FREQ CUTOFF	1500	Hz	''	''
	HIGH FREQ CUTOFF	20000	Hz	''	''
ACOUSTIC TCC CONTROL PARAMETERS					
MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (m)	
GENERAL TCC PARAMETERS	AGC	ON		TOP	BOTTOM
GENERAL MONOPOLE TCC PARAMETERS	STACK LEVEL	1		''	''
	LOW FREQ	500		''	''
	HIGH FREQ	23		''	''
DELTA T TCC PARAMETERS	ACG WINDOW	1536	us	''	''
	MOVEOUT	16	us/ft	''	''
	SAMPLE PERIOD	8		''	''
	RX DELAY	240	us	''	''
FULL WAVE MONOPOLE TCC PARAMETERS	ACG WINDOW	5184	us	''	''
	SAMPLE PERIOD	12		''	''
	RX DELAY	0	us	''	''
CURVE DESCRIPTION REPORT					
CURVE NAME	CURVE ALIAS	CREATION DATE	CURVE DESCRIPTION		
F1:CAL	CAL	Nov 25 18:18:32 2009	CALIPER		
F1:CDTCRQI	CDTCR.I	Nov 25 18:18:32 2009	COMBINED CORRELATION FOR MONOPOLE COMPRESSIONAL, RECVR ARRAY		
F1:CHT	CHT	Nov 25 18:18:32 2009	CABLE HEAD TENSION		
F1:DTCQI	DTC.I	Nov 25 18:18:32 2009	COMPRESSIONAL WAVE SLOWNESS		
F1:DTCRQI	DTCR.I	Nov 25 18:18:32 2009	COMPRESSIONAL WAVE SLOWNESS FROM RECEIVER ARRAY		
F1:GR	GR	Nov 25 18:18:32 2009	GAMMA RAY		
F1:PKSMRQI	PKSM5R.I	Nov 25 18:18:32 2009	PEAKS FROM MONOPOLE COMPRESSIONAL CORRELATION (8 WV),RECVR		
F1:QACOUQI	QACOU.I	Nov 25 18:18:32 2009	QUALITY FOR DIFFERENTIAL TENSION PULLS FOR XMAC-ELITE		
F1:TEN	TEN	Nov 25 18:18:32 2009	DIFFERENTIAL TENSION		
F1:TFWV06	WVF1-6.I.MPX	Nov 25 18:18:32 2009	ACOUSTIC MULTIPLEX WAVEFORM		
F1:TTFEQI	TTFE.I	Nov 25 18:18:32 2009	TRAVEL TIME ESTIMATE FAR XMTR		

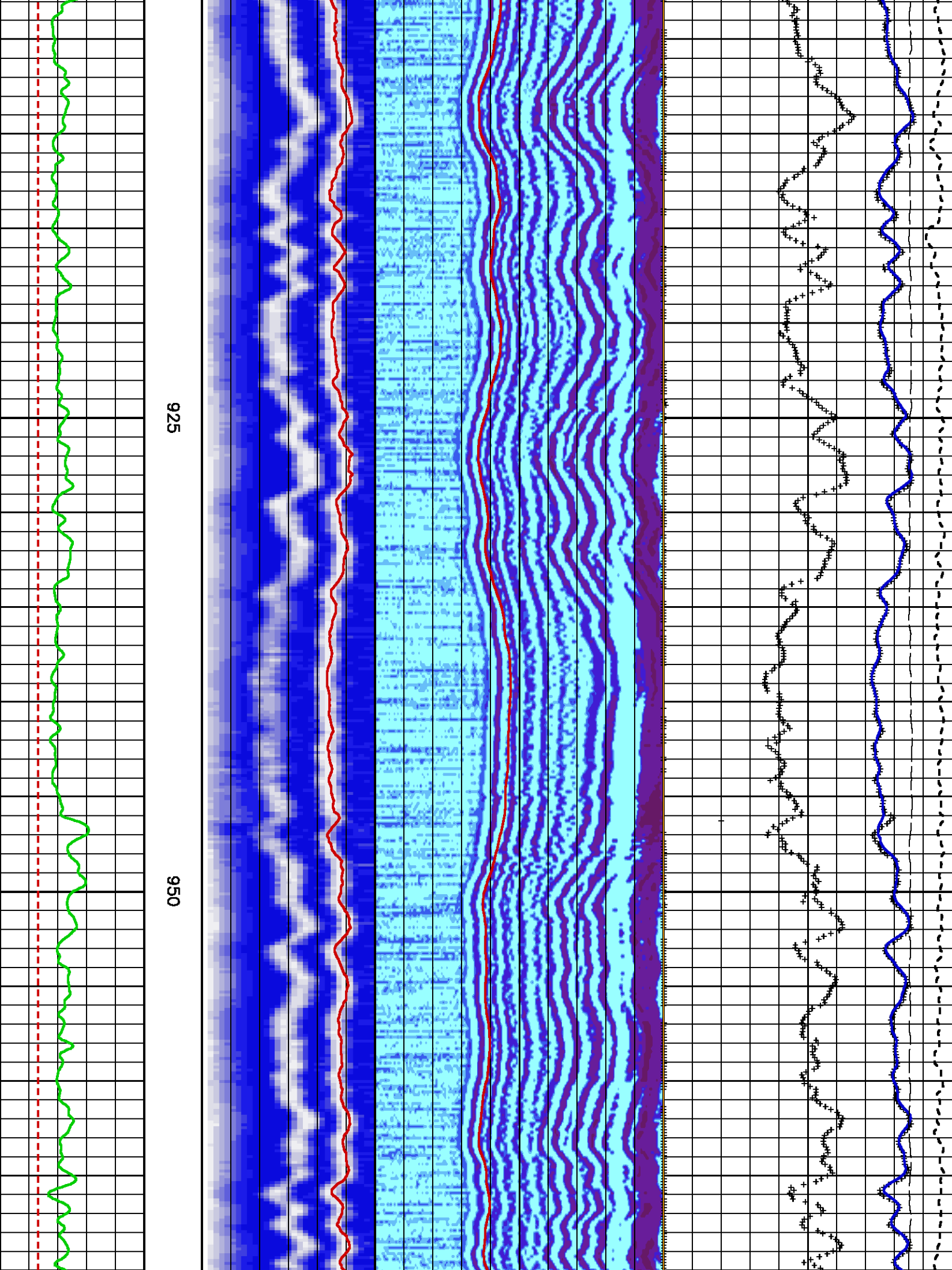
CURVE MEASURE POINT OFFSET							
CURVE	OFFSET (m)	CURVE	OFFSET (m)	CURVE	OFFSET (m)	CURVE	OFFSET (m)
CAL	16.15	DTCRQI	5.94	QACOUQI	5.94		
CHT	0.00	GR	14.40	TEN	0.00		
DTCQI	5.94	PKSMRQI	5.94	TTFEQI	5.64		

Presentation : cpu1:/dat1a/pass/vulcan/mac\_qc.pdf [1:240 Scale]  
Plot Interval : 800 - 1960.7 Meters

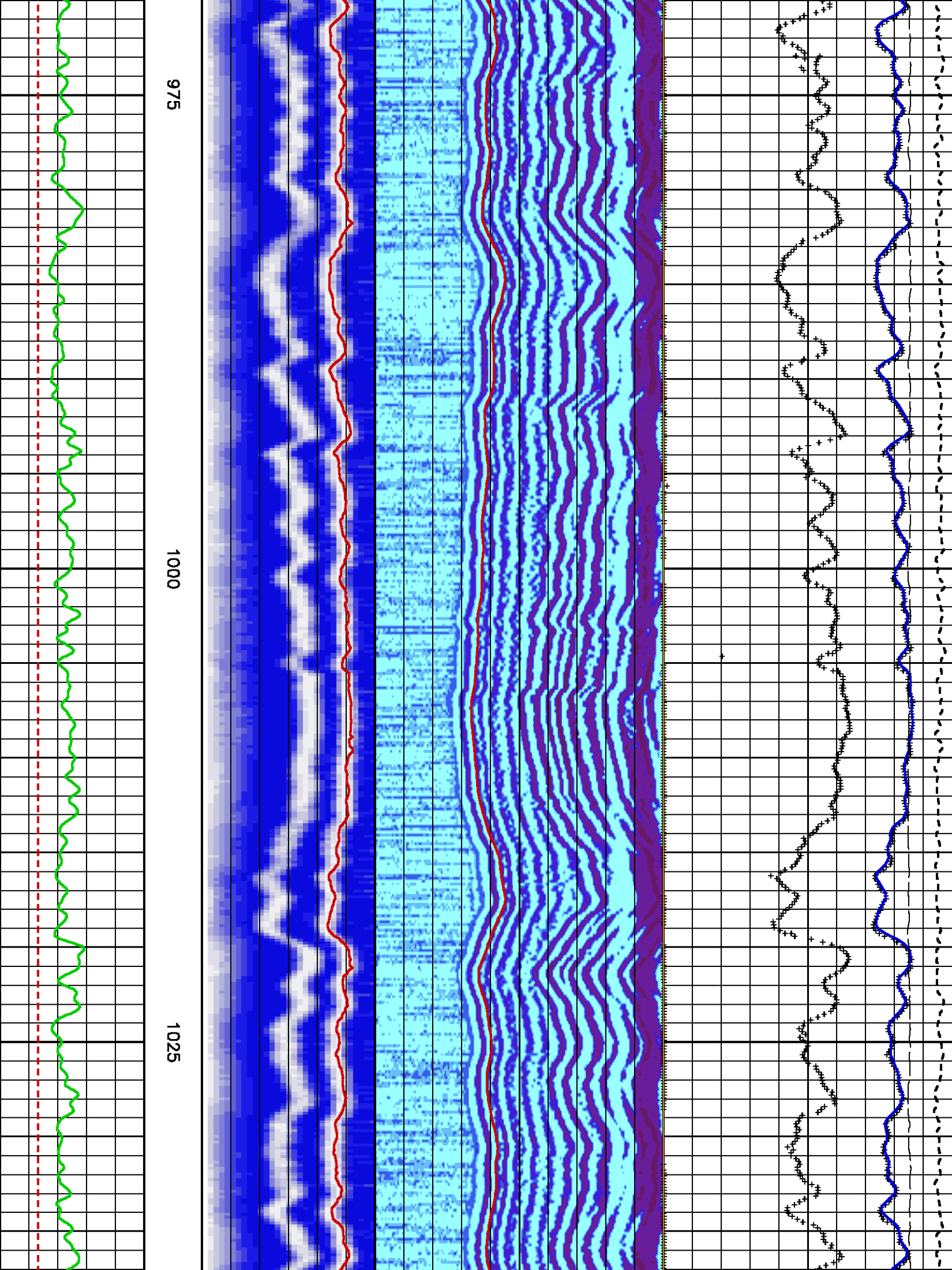
Data File 1 : F1 : cpu1:/dat1a/pass/vulcan/ku833k03.aff  
Created On : Nov 25 18:18:32 2009  
Company : VULCAN MINERALS INC.  
Well : VULCAN INVESTCAN RED BROOK #2  
Field : RED BROOK  
File Interval : 774.878 - 1961.08 Meters  
Oct : ku833k

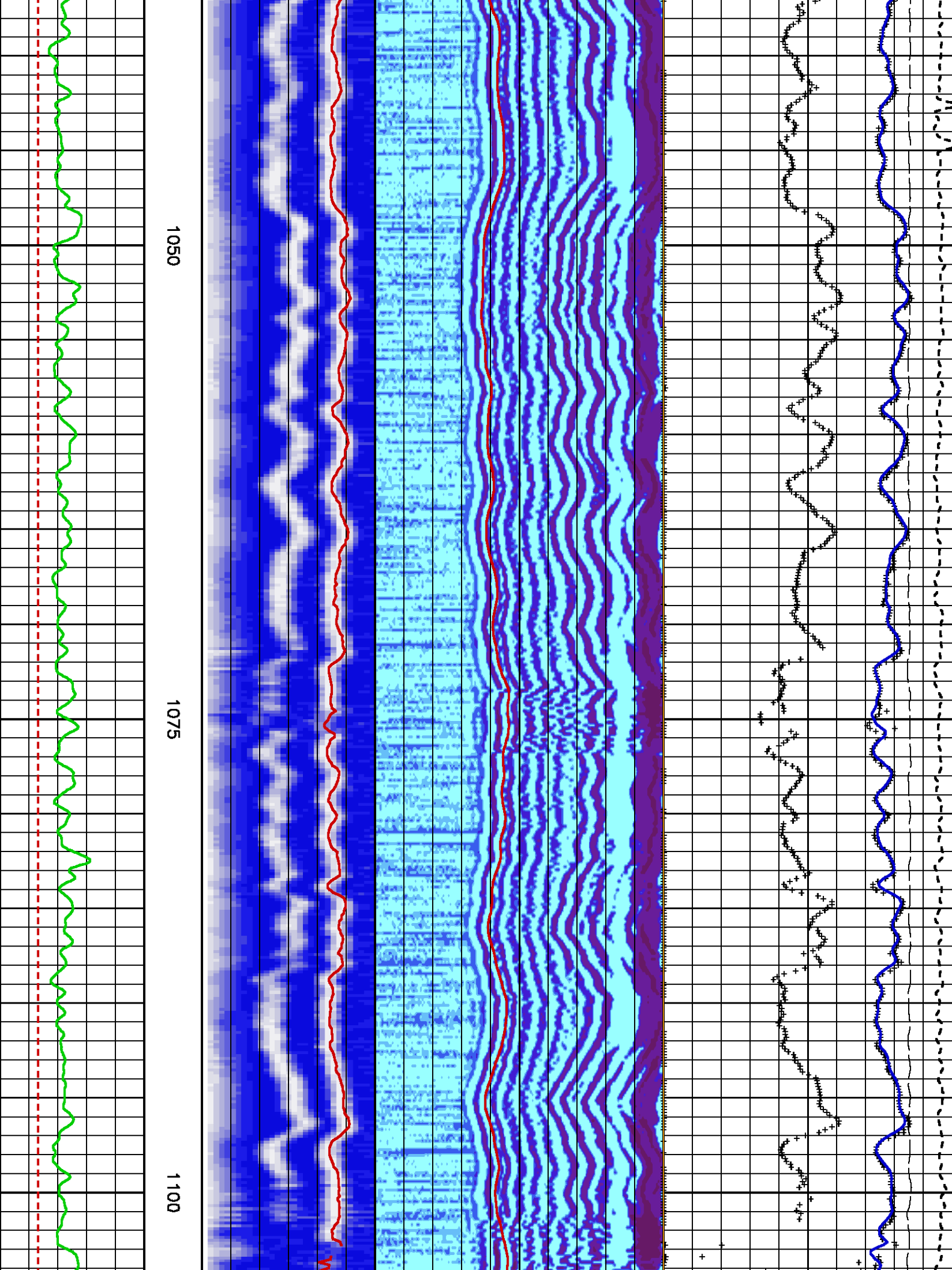


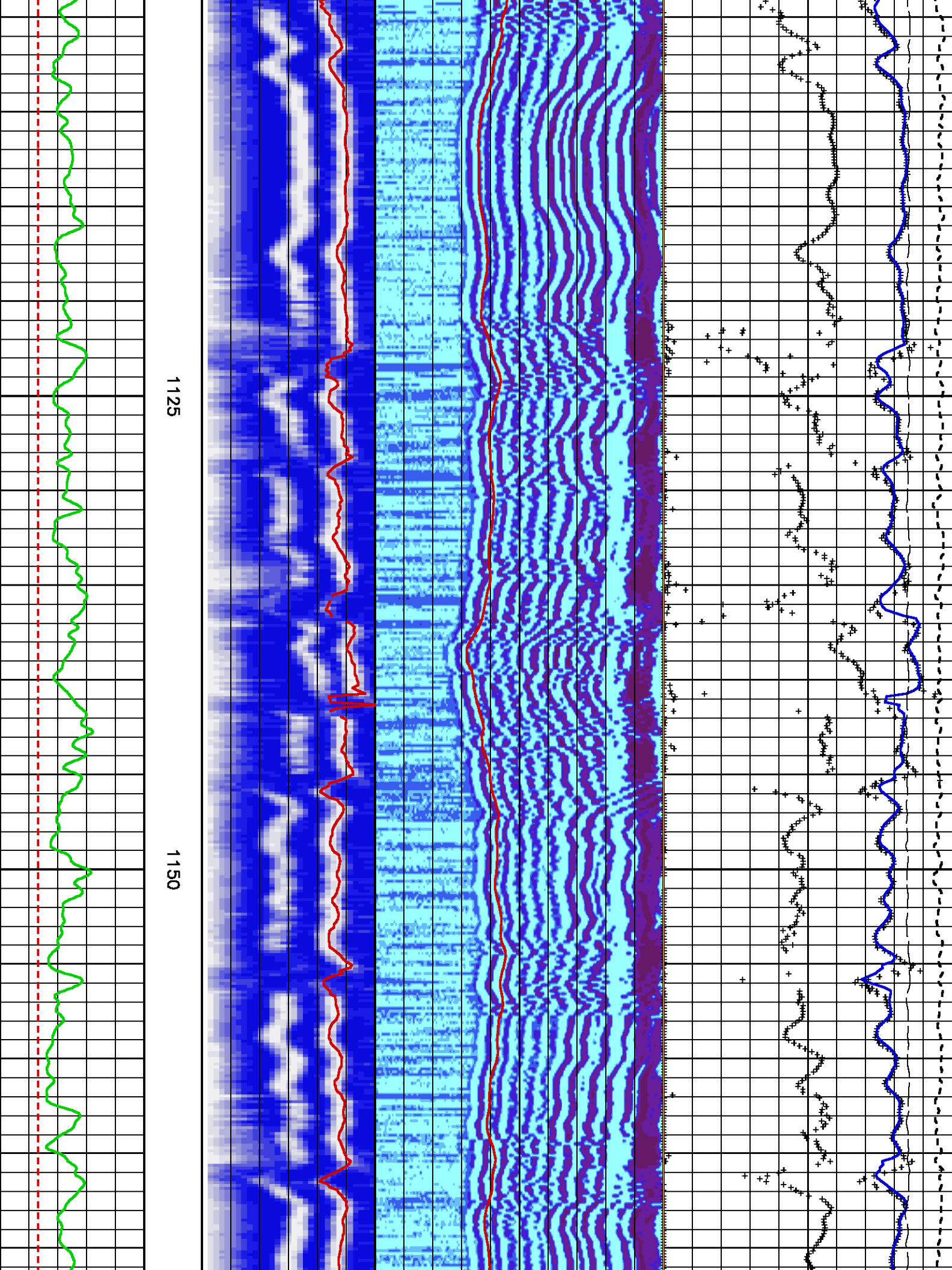




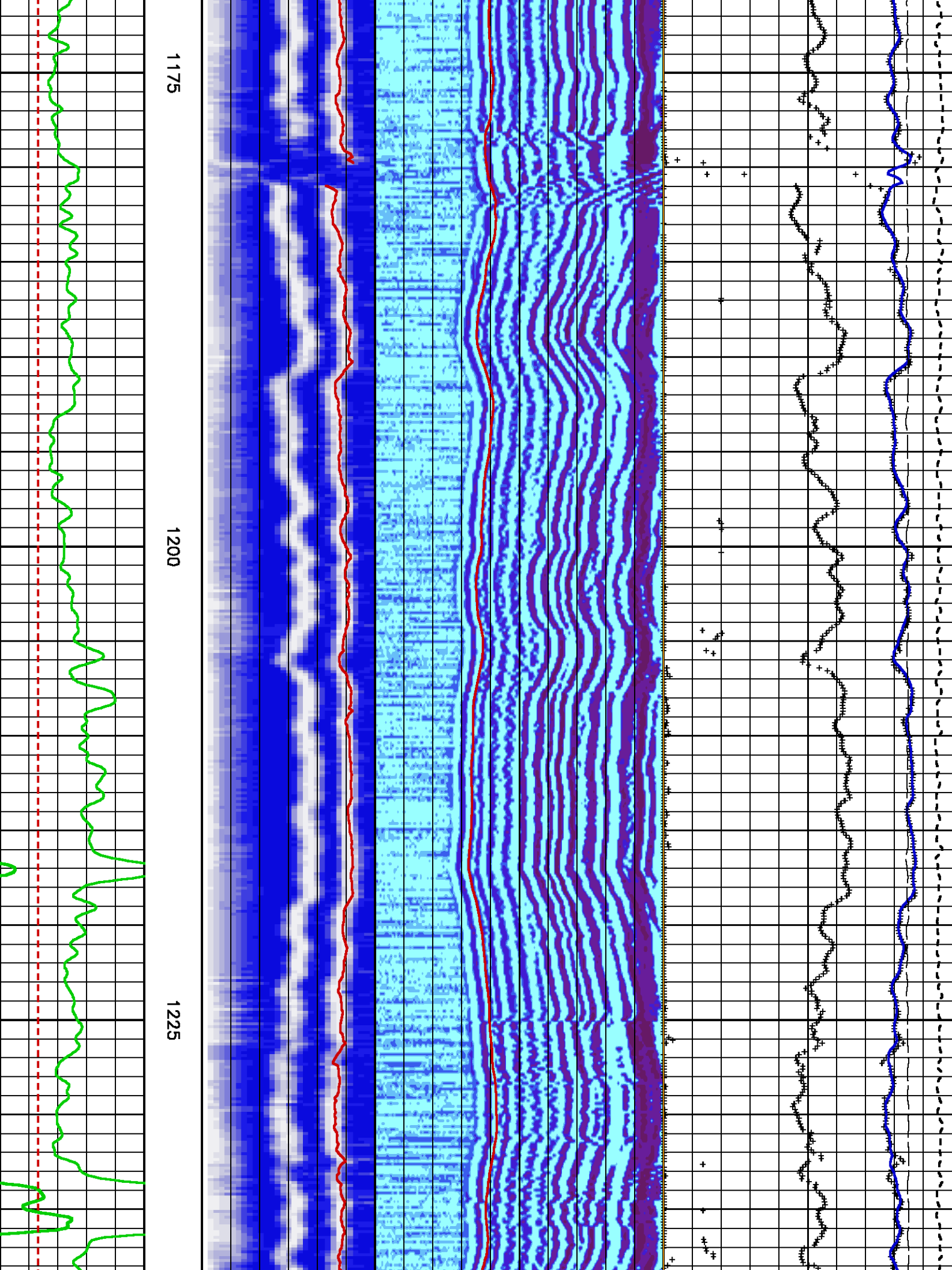




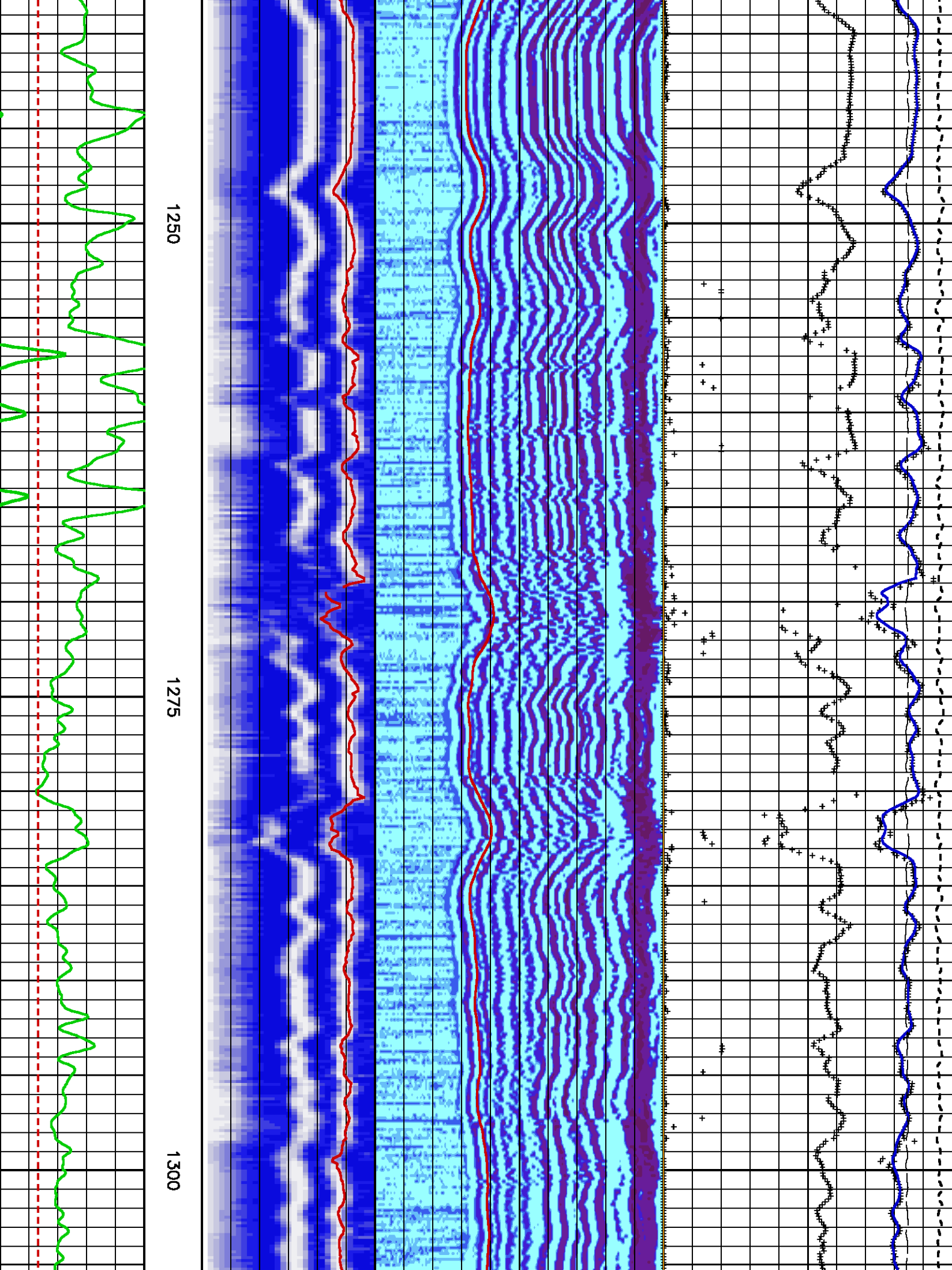


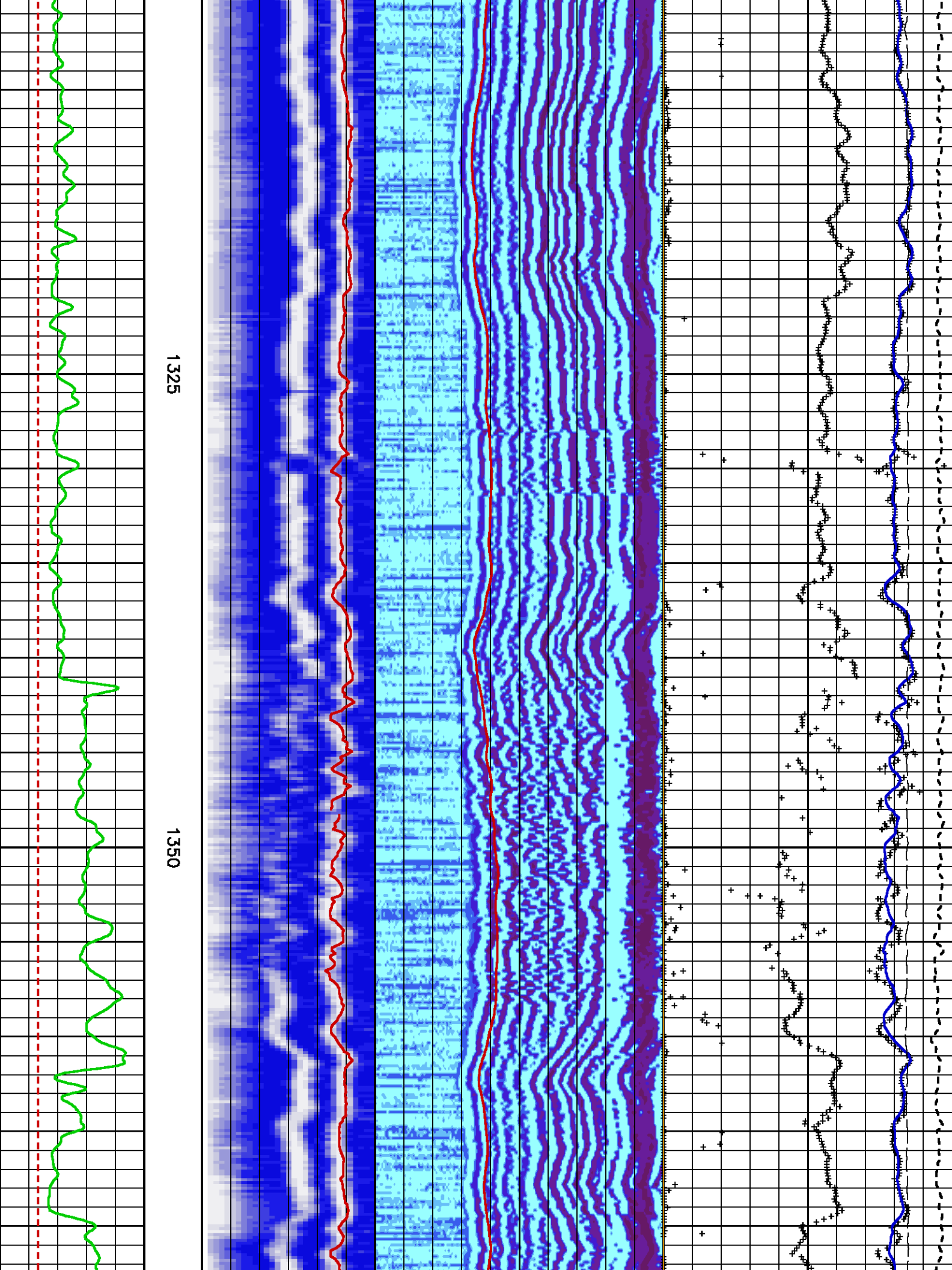


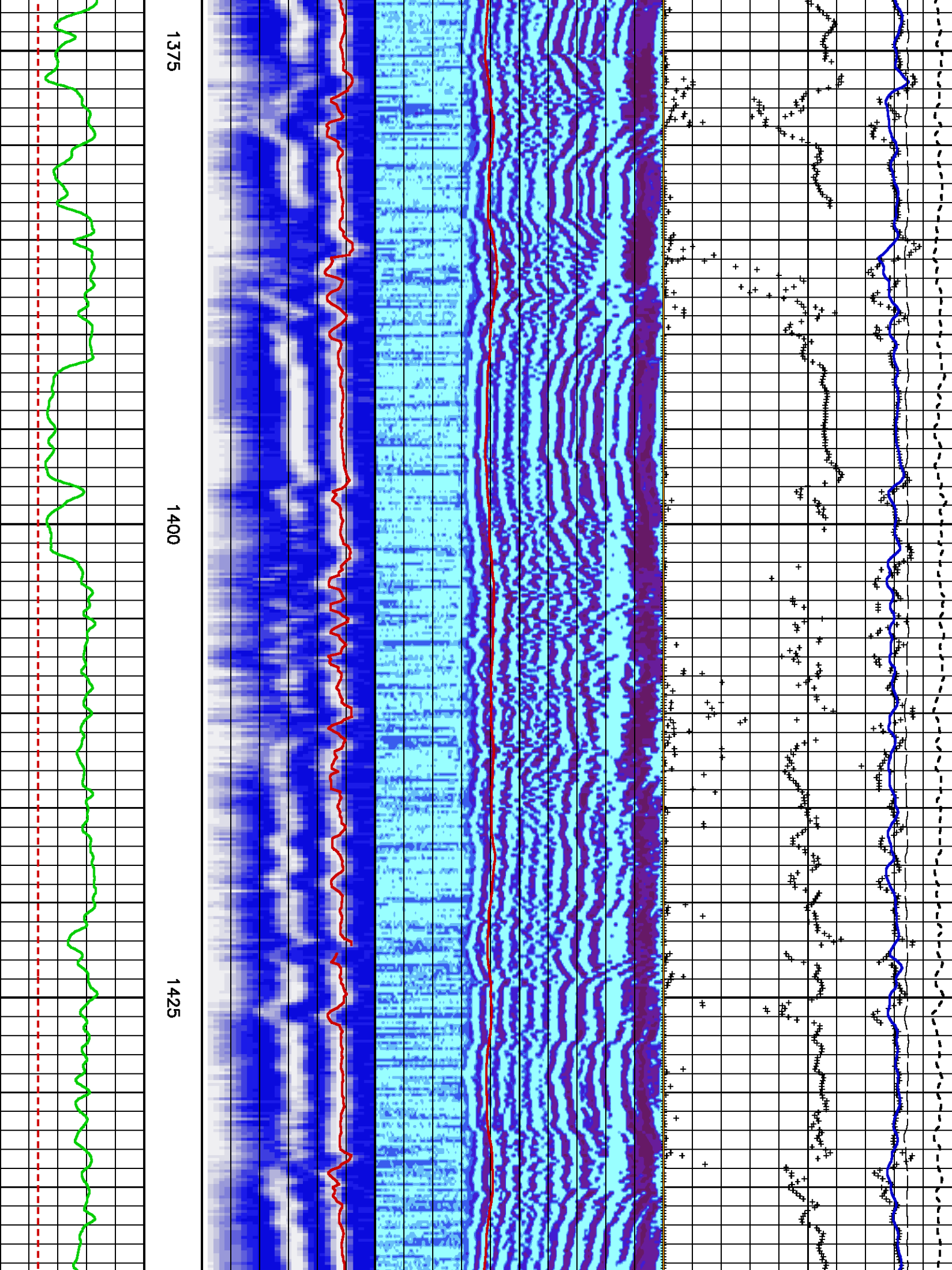




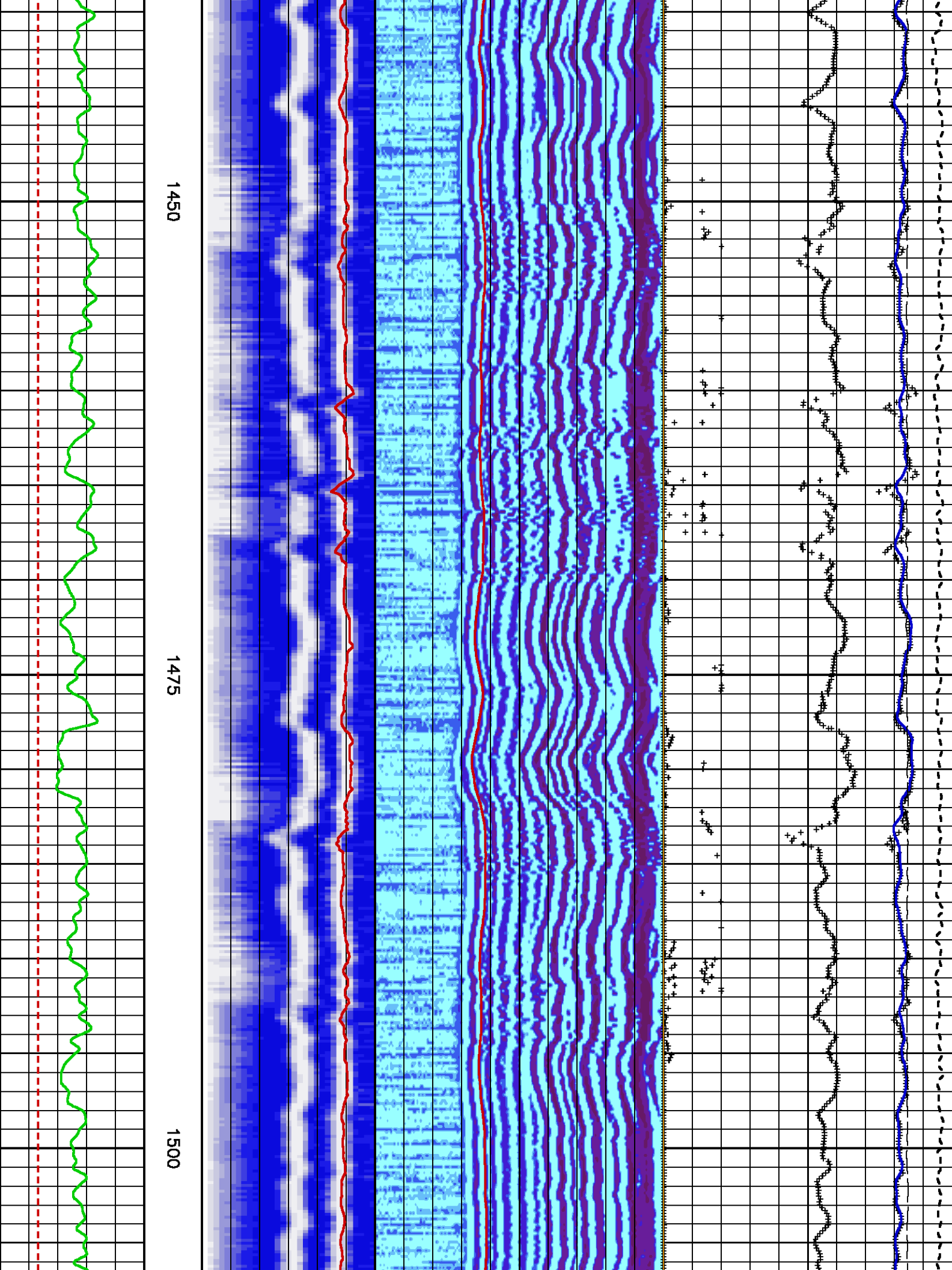


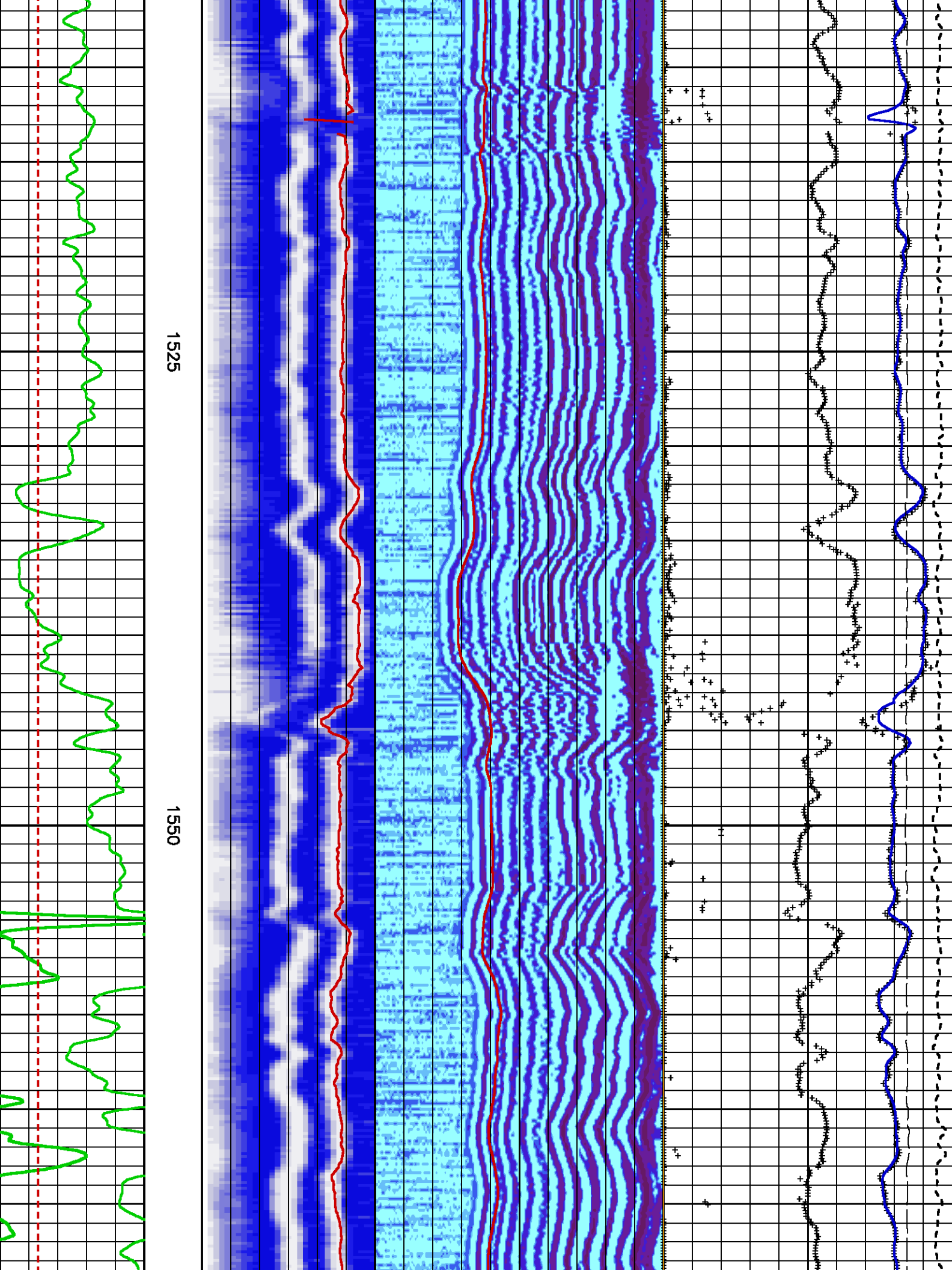


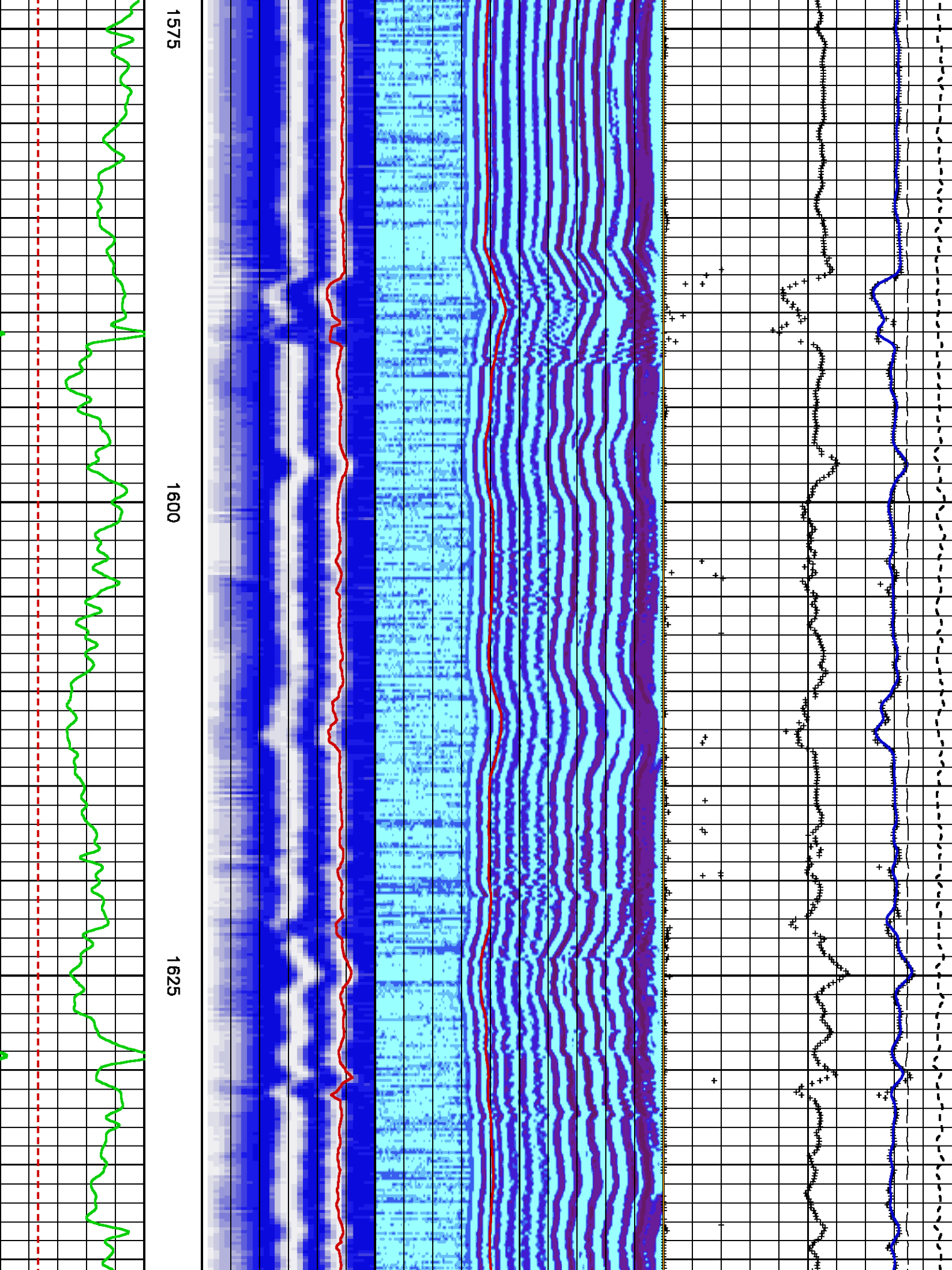




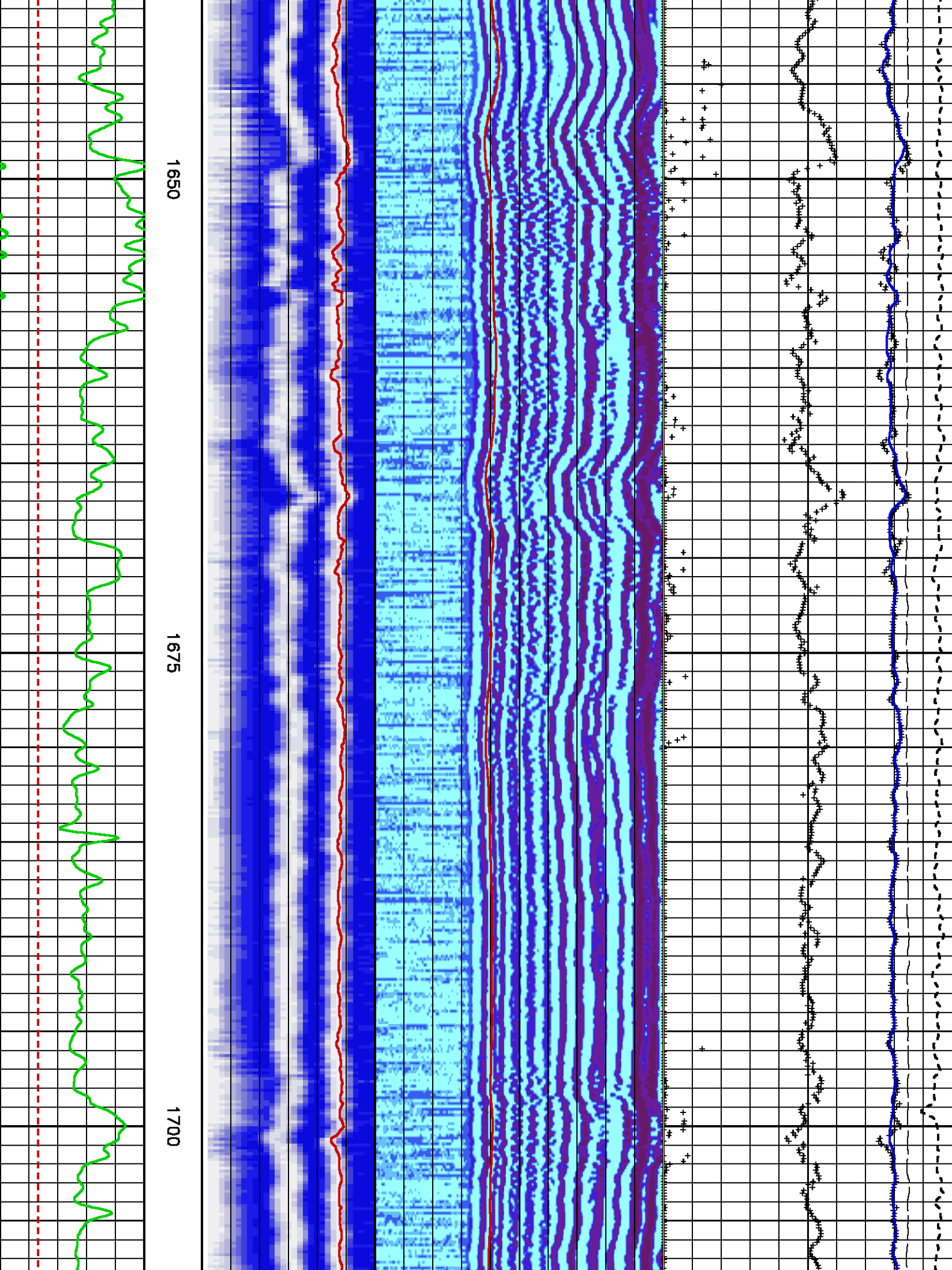


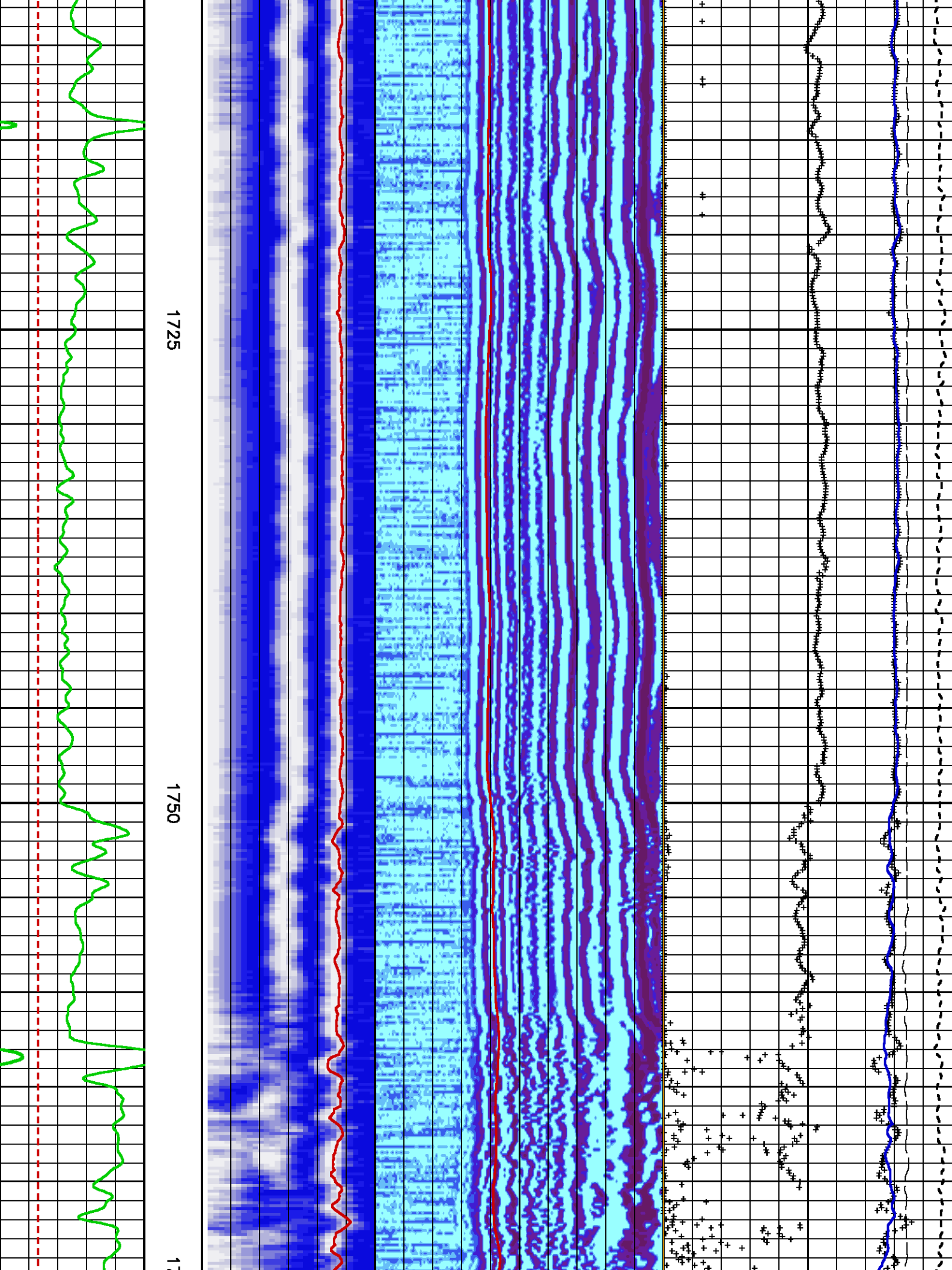




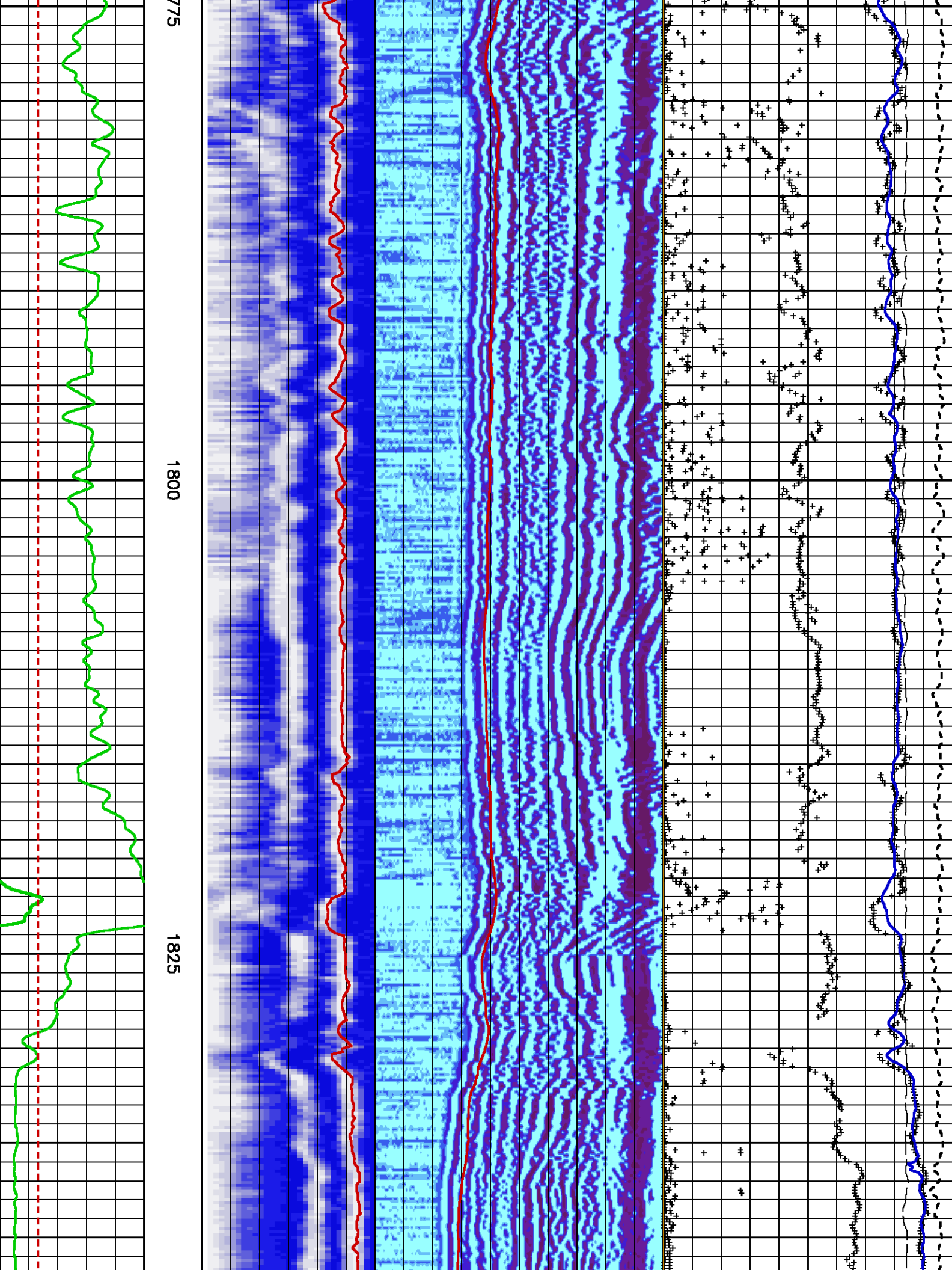


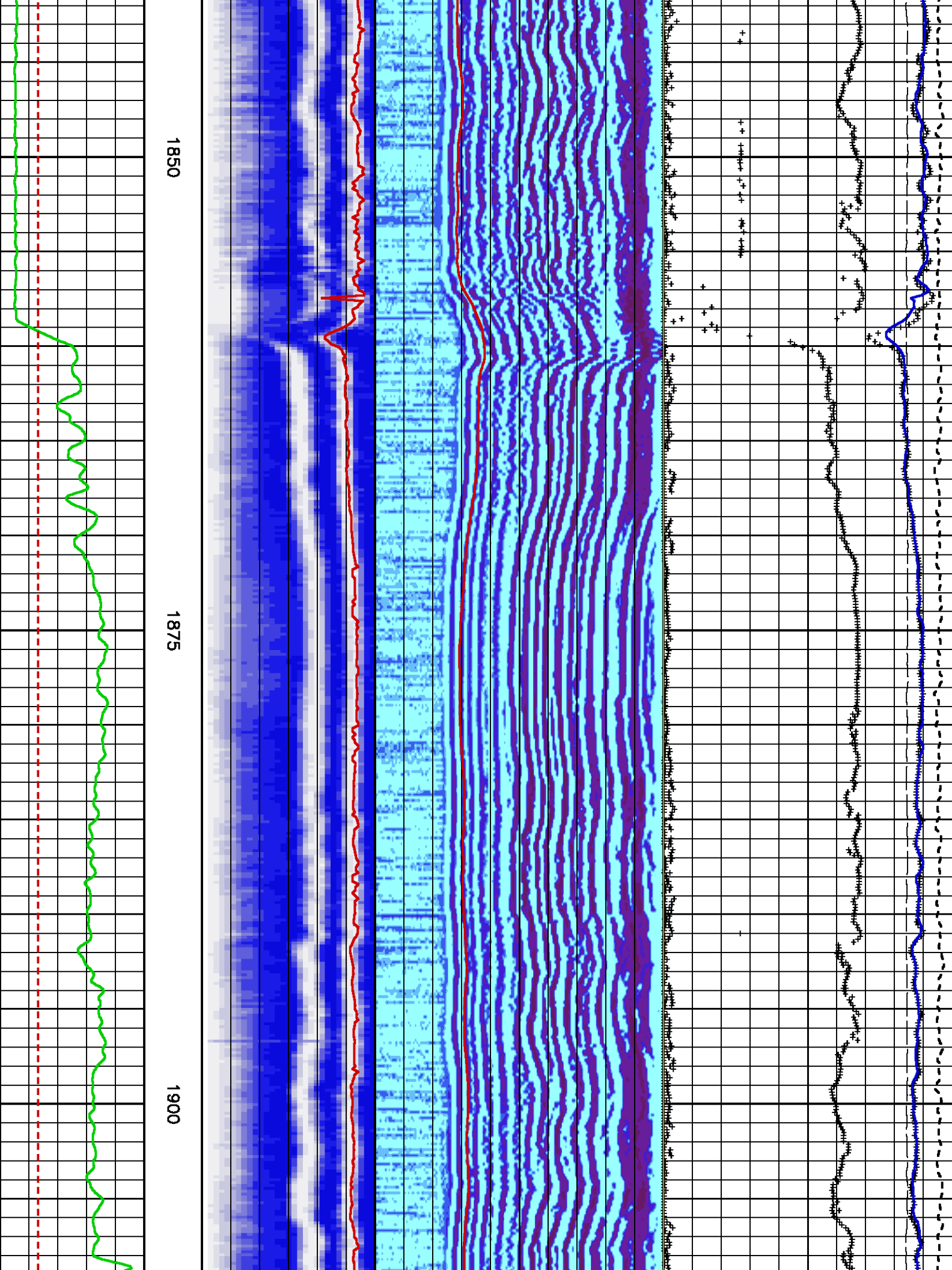


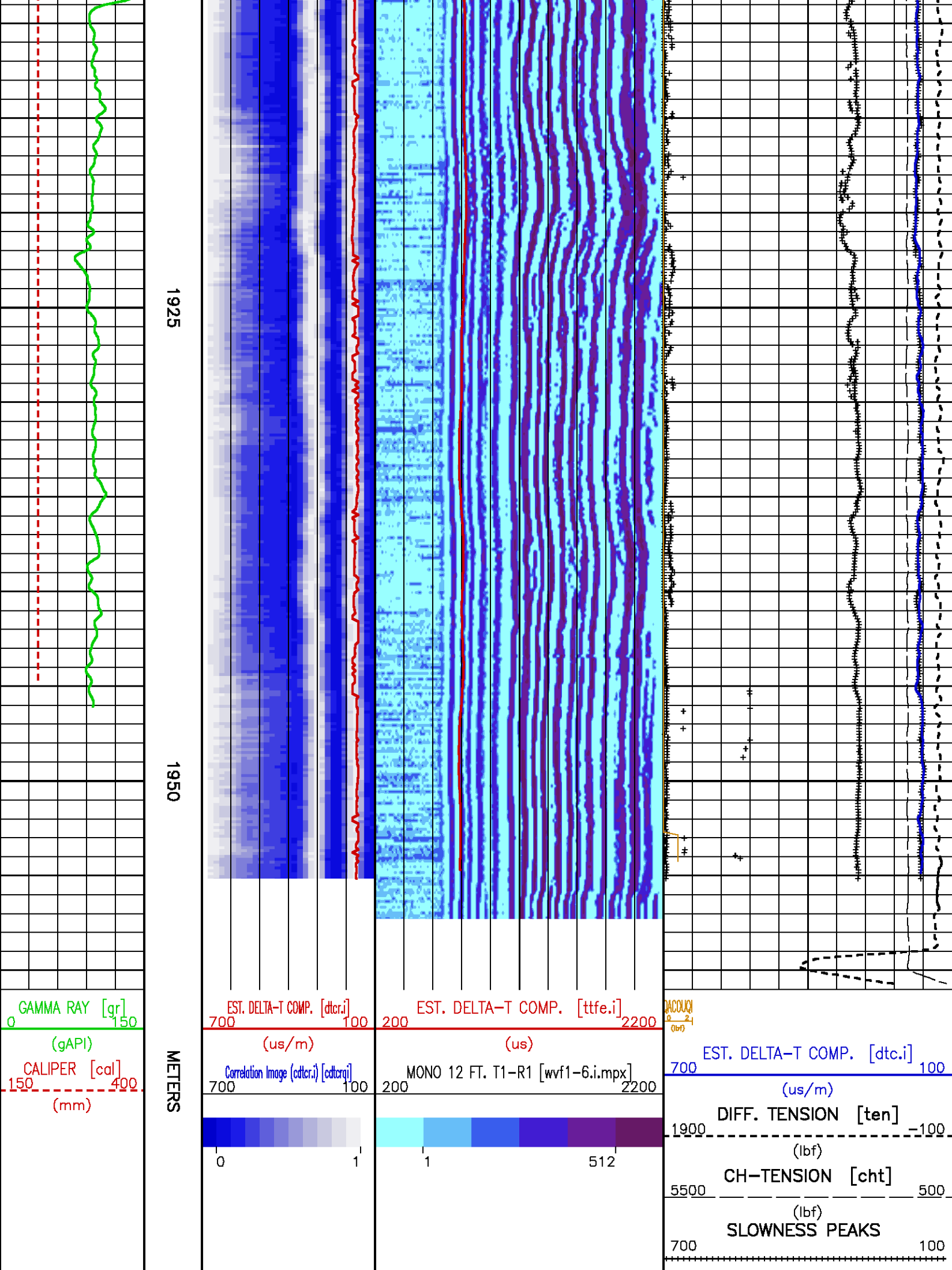












## CALIBRATION / VERIFICATION SUMMARY

Source File: /dat1a/pass/vulcan/ku833k.tp1

### GR PRIMARY CALIBRATION SUMMARY

TOOL #: 1329XA 370830

DATE/TIME PERFORMED: Sun Nov 1 20:56:33 2009

UNIT #: 3880TA HL6555

CALB JIG #: 4702NK DA-305

	BACKGROUND (cts/s)	CALBRTR ON (cts/s)	CR DIFF (cts/s)	MULT	BACKGROUND (gAPI)	CALBRTR ON (gAPI)	CALBRTR (gAPI)
GR	92.67	922.67	830.0 830.0 960.0	0.181	16.75	166.75	150

### GR PRIMARY VERIFICATION SUMMARY

TOOL #: 1329XA 370830

DATE/TIME PERFORMED: Sun Nov 1 21:00:45 2009

UNIT #: 3880TA HL6555

VERI JIG #: 4702NK DA-305

	BACKGROUND (cts/s)	CALBRTR ON (cts/s)	MULT	BACKGROUND (gAPI)	CALBRTR ON (gAPI)	DIFF. (gAPI)
GR	87.82	926.29	0.181	15.87	167.40	151.53 140.00 160.00

### GR BEFORE LOG VERIFICATION SUMMARY

TOOL #: 1329XA 370830 DATE/TIME PERFORMED: Wed Nov 25 16:57:45 2009 DAYS SINCE CAL: 23

UNIT #: 3880TA HL6555

VERI JIG #: 4702NK DA-305

	BACKGROUND (cts/s)	CALBRTR ON (cts/s)	MULT	BACKGROUND (gAPI)	CALBRTR ON (gAPI)	DIFF. (gAPI)
GR	111.98	929.31	0.181	20.24	167.95	147.71 141.53 161.53

### GR AFTER LOG VERIFICATION SUMMARY

TOOL #: 1329XA 370830 DATE/TIME PERFORMED: Wed Nov 25 21:53:57 2009 DAYS SINCE CAL: 24

UNIT #: 3880TA HL6555

VERI JIG #: 4702NK DA-305

	BACKGROUND CALBRTR ON (cts/s)	MULT (cts/s)	BACKGROUND CALBRTR ON (gAPI)	DIFF. (gAPI)
GR	113.20	942.47	0.181	20.46
				170.33
				149.87
				137.71 157.71

## XMAC\_OR PRIMARY CALIBRATION SUMMARY

TOOL #: 1678MA 189391

DATE/TIME PERFORMED: Wed Jul 29 08:24:59 2009

UNIT #: 3880TA HL6555

ORIENTATION #: 4401XB 10118896



	DEV (deg)	QA (mG)	MEAS RB (deg)	RB OFFSET (deg)	ROTATED RB (deg)
ORIT TBM CHECK	89.8	1001.2	1.3		
		990.0 1010.0			
XMAC ORIENTATION			352.5	352.5	0.0

## XMAC\_OR BEFORE LOG VERIFICATION SUMMARY

NOT DONE

## XMAC\_OR AFTER LOG VERIFICATION SUMMARY

NOT DONE

 <b>Baker Atlas</b> 	<b>COMPANY</b> <u>VULCAN MINERALS INC.</u> <b>WELL</b> <u>VULCAN INVESTCAN RED BROOK #2</u> <b>FIELD</b> <u>BAY ST.GEORGE BASIN</u> <b>PROVINCE</b> <u>NEWFOUNDLAND AND LABRADOR</u>	<b>FILE NO:</b> _____ <b>API NO:</b> _____
	<b>LOCATION:</b> <b>BH LOC. LSD:</b> <b>LAT</b> <u>48.2679591667</u> <b>LONG</b> <u>-58.7501141667</u>	<b>ELEVATIONS:</b> <b>KB</b> <u>63.4 M</u> <b>DF</b> <b>GL</b> <u>57.1 M</u> <b>DATE</b> <u>25-NOV-2009</u>
		<b>UID:</b> _____ <b>N/A</b> <b>LICENSE:</b> _____ <b>ADW 2009-116-03</b>