

Rig: **ISDL 453** State: **Victoria**

Bit Run Summary

Run number	3	4	6
Bit size	8.5	8.5	8.5
Bit start depth	928	1192	2796
Bit end depth	1192	2796	3075
Top interval logged	928	1179	2784
Bottom interval logged	1179	2784	3062
Begin log: time	14:45	17:00	0:40
Begin log: date	3-Aug-02	4-Aug-02	10-Aug-02
End log: time	17:00	20:30	10:45
End log: date	4-Aug-02	9-Aug-02	11-Aug-02
Mud data			
Depth	1192	2797	3075
Type	KCL/PHPA/GLYCOL KCL/PHPA/GLYCOL		

Type		KCL/PHPA/GLYCOL	KCL/PHPA/GLYCOL							
Mud weight	ppg	9.4	10.55	10.4						
Solids	%vol	4.3	10.4	9.4						
Chlorides	mg/l	45,500	47,900	47,900						
Rm	Ohmms @ °C	0.0963@20	0.0945@20	0.1230@21						
Rmf	Ohmms @ °C	0.0878@20	0.1302@20	0.0880@21						
Rmc	Ohmms @ °C	0.0677@20	0.2170@21	0.3830@22						
Potassium	%vol	4	4	4						
Environmental data										
GR										
Mud weight	ppg	9.4	10.55	10.3						
Bit size	in	8.5	8.5	8.5						
Resistivity										
Neutron porosity										
Hole Size	in	8.5	8.5	8.5						
Mud weight	ppg	9.4	10.55	10.3						
Temperature	degC	47.1	78	75						
Mud salinity	mg/l	75,000	79,035	79,035						
Formation salinity										
Recording rate 1	SEC	10	10	10						
Recording rate 2	SEC	10	10	10						
Filtering GR		3 pt	3 pt	3 pt						
Filtering density		3 pt	3 pt	3 pt						
Filtering Neutron		3 pt	3 pt	3 pt						
Company representative		B. Davies	B. Steel	G. Campbell						
Anadrill personnel		J. Walta	L. Bon	J. Dolan						

DISCLAIMER

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OTHER SERVICES FOR RUN3 Directional Surveys	OTHER SERVICES FOR RUN4 Directional Surveys	OTHER SERVICES FOR RUN6 Directional Surveys
REMARKS: RUN NUMBER 3 8-1/2in Hole Section was logged from 928m to 1192m MD Depth is referenced to driller's pipe tally All data is presented from tool memory Button deep down resistivity is presented in replacement for absent ring resistivity. GR corrected for mud weight, tool and bit size. RAB6 resistivity is corrected for the bit size, mud resistivity and borehole temperature. Bottom quadrant density is presented. Neutron porosity is calculated with limestone matrix and is corrected for the bit size, borehole salinity, temperature and mud hydrogen index (from mud weight, temperature and pressure) Mud type is water based KCL/PHPA/GLYCOL Barite is present in the mud.	REMARKS: RUN NUMBER 4 8-1/2in Hole Section was logged from 1192m to 2797m MD Depth is referenced to driller's pipe tally All data is presented from tool memory Button deep down resistivity is presented in replacement for absent ring resistivity. GR corrected for mud weight, tool and bit size. RAB6 resistivity is corrected for the bit size, mud resistivity and borehole temperature. Bottom quadrant density is presented. Neutron porosity is calculated with limestone matrix and is corrected for the bit size, borehole salinity, temperature and mud hydrogen index (from mud weight, temperature and pressure) Mud type is water based KCL/PHPA/GLYCOL Barite is present in the mud.	REMARKS: RUN NUMBER 6 8-1/2in Hole Section was logged from 2797m to 3075m MD Depth is referenced to driller's pipe tally All data is presented from tool memory Button deep down resistivity is presented in replacement for absent ring resistivity. GR corrected for mud weight, tool and bit size. RAB6 resistivity is corrected for the bit size, mud resistivity and borehole temperature. Bottom quadrant density is presented. Neutron porosity is calculated with limestone matrix and is corrected for the bit size, borehole salinity, temperature and mud hydrogen index (from mud weight, temperature and pressure) Mud type is water based KCL/PHPA/GLYCOL Barite is present in the mud.

Barite is present in the mud.

RAB6C* Downhole Software 6.1B14
ADN6C* Downhole Software 6.2B08

Barite is present in the mud.

RAB6C* Downhole Software 6.1B14
ADN6C* Downhole Software 6.2B08

Barite is present in the mud.

RAB6C* Downhole Software 6.1B12
ADN6C* Downhole Software 6.1B01

EQUIPMENT DESCRIPTION

RUN3

RUN4

RUN6

DOWNHOLE EQ

6-3/4" A 29.8
ADSE Neutron 27.8
Neutron 27.6
Density 26.8
8-1/4in Density 26.7
NSR-M UltraSo 26.3
GSR-J A R-O P 25.5
Soft: 6.2

6-3/4" Powe 23.5
MDC Z
MDI 116
MEC 115
Soft: 6.1
D&I 19.4
GR 18.7

6-3/4" G 15.2
S/N: 1
Soft: 6.1
Shallo 13.7
Medium 13.6
Deep 13.4
Ring R 13.2
R-O p 13.1
GR 12.9

Cross Over S 12.1
NM Pony 11.5
S/N ANA9

ADOS S/N 8.7

PowerPak* Mu 7.9
A675XP7850
1.15 deg bent B

DOWNHOLE E

6-3/4" A 29.7
ADSE Neutron 27.7
Neutron 27.6
Density 26.7
8-1/4in Density 26.6
NSR-M UltraSo 26.2
GSR-J A R-O P 25.4
Soft: 6.2

6-3/4" Powe 23.4
MDC Z
MDI 116
MEC 115
Soft: 6.1
D&I 19.3
GR 18.7

6-3/4" G 15.1
S/N: 1
Soft: 6.1
Shallo 13.6
Medium 13.5
Deep 13.3
Ring R 13.2
R-O p 13.0
GR 12.8

Cross Over S 12.0
NM Pony 11.4
S/N ANA9

ADOS S/N 8.7

PowerPak* Mu 7.9
A675XP7850
1.15 deg bent B

DOWNHOLE EQ

6-3/4" A 29.6
ADSE Neutron 27.6
Neutron 27.5
Density 26.6
8-1/4in Density 26.5
NSR-M UltraSo 26.1
GSR-J A R-O P 25.4
Soft: 6.1

6-3/4" Powe 23.5
MDC Z
MDI 116
MEC 115
Soft: 6.1
D&I 19.3
GR 18.7

6-3/4" G 15.1
S/N: 1
Soft: 6.1
Shallo 13.6
Medium 13.5
Deep 13.3
Ring R 13.2
R-O p 13.0
GR 12.8

Cross Over S 12.0
NM Pony 11.4
S/N ANA9

ADOS S/N 8.7

PowerPak* Mu 7.9
A675XP7850
1.15 deg bent B

1.15 deg bent B



1.15 deg bent B



1.15 deg bent B



Bit-PD

Hughes Model: HCM60

MAXIMUM STRING DI

ALL LENGTHS I

Bit-PD

GeoDIAMOND Model: S7

MAXIMUM STRING DI

ALL LENGTHS I

Bit-PD

GeoDIAMOND Model: S7

MAXIMUM STRING DI

ALL LENGTHS I

IDEAL Version: ID7_0C_02

IDF

RAB	id6_1c_10	MWD_10	id6_1c_10
ADN	id6_1c_10		

Format: A-29 GeoVISION Density Neutron

Vertical Scale: 1:200

Graphics File Created: 18-Aug-2002 14:28

Parameters

DLIS Name	Description	Value
AVE_ADN	ADN/Array Channels: perform averaging(RM) :	YES
BHA_COEF_VER	RAB: BHA Coef Generator Version	2.000
BHT_RM	Bottom Hole Temperature (RM)	75.000 degC
BSAL_RM	Mud Salinity (RM)	79.200 ppk
BS_RM	Bit Size (RM)	8.500 in
DEVI	Average angle of the hole (RM)	59.450 deg
DHS_VERSION	RAB: DownHole Software Version	V6.1 B
DO	Depth Offset	0.0 m
ENVCOR	Neutron Quadrant Processing: Environmental Correction?	YES
GRDC	Grid corr angle	-0.880 deg
LITHO_TYPE_ADN	Lithology (RM)	LIME
MST_RM	Mud Sample temperature (RM)	20.800 degC
MW_RM	Mud Weight (RM)	10.400 lbm/gal
OBM	RAB: Oil base Mud	NO
OBMF_RM	Oil Based Mud	NO
RAB_TEMP_SELECT	RAB Temperature Selection	MEAS
READOUT_PORT_MP	RAB: ROP to Bit Face Distance	13.070 m
RHOF_RM	Mud Filtrate Density (RM)	1.000 g/cm3
RHOM_RM	Matrix density (RM)	2.710 g/cm3
RMS_RM	Resistivity of Mud Sample (RM)	0.123 ohm.m
RWS_RM	Resistivity of Connate Water (RM)	1.000 ohm.m
SHT_RM	Surface Hole Temperature (RM)	10.000 degC
SSIZ_ADN	ADN:Stabilizer Size (RM)	8.250 in
STAB	RAB: Run with Stabilizer	YES
TD_RM	Total Measured Depth (RM)	3075.0 m
TOOLTYPE	RAB: Azimuthal Tool	YES
TRPM_RM	Average Tool rotational Speed (RM)	20.000 c/min
TSIZ_ADN	ADN:Tool Size (RM)	6.750 in
TS_VERSION	RAB: ToolScope Software Version	V6.0 B017
TWS_RM	Temperature of Connate Water (RM)	23.889 degC
VERS_ADN	ADN downhole software	6.100
VRAB6	Rab Tool type (ENP/PILOT)	RAB6_C_SERIES

PIP SUMMARY

└ Density Ticks, 0.1 ft

Neutron Ticks, 0.1 ft └

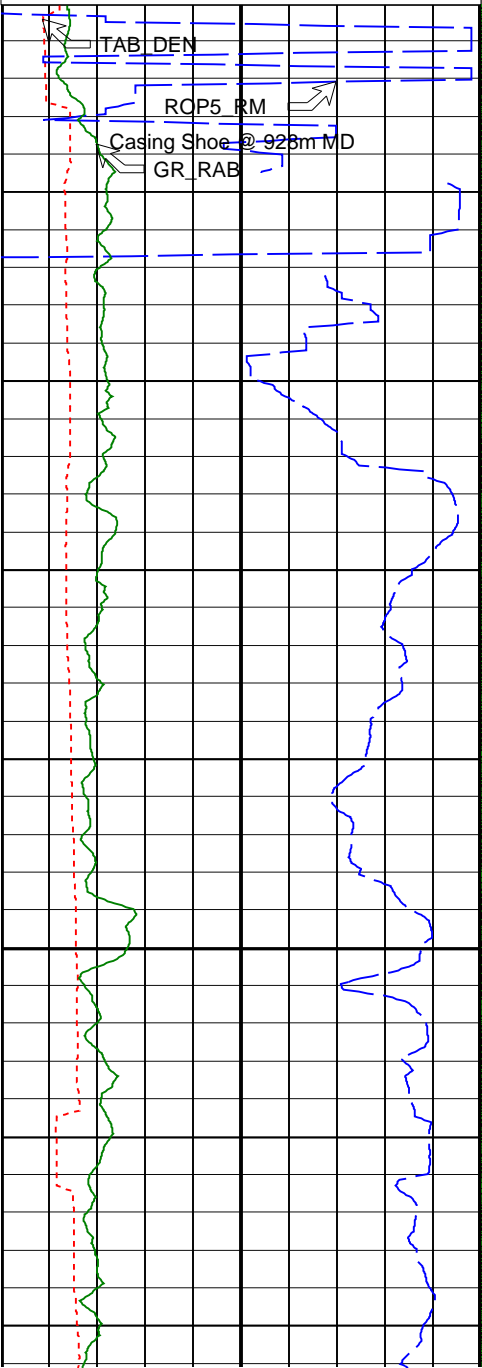
└ Gamma Ray Samples

LWD Spare Area

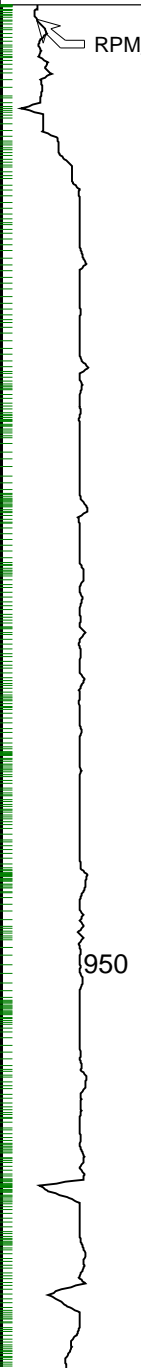
Rate of Penetration, Averaged over Last
5ft (ROP5_RM)
200 (M/HR) 0

RAB Gamma Ray (GR_RAB)
0 (GAPI) 200

Density Time After Bit (TAB_DEN)
0 (HR) 10



ADN
Rotational
Speed
(RPM_ADN)
(RPM)
0 200



LWD Spare Area
From ADN/ROBB/DEPTH to ADN/TNPH/DEPTH

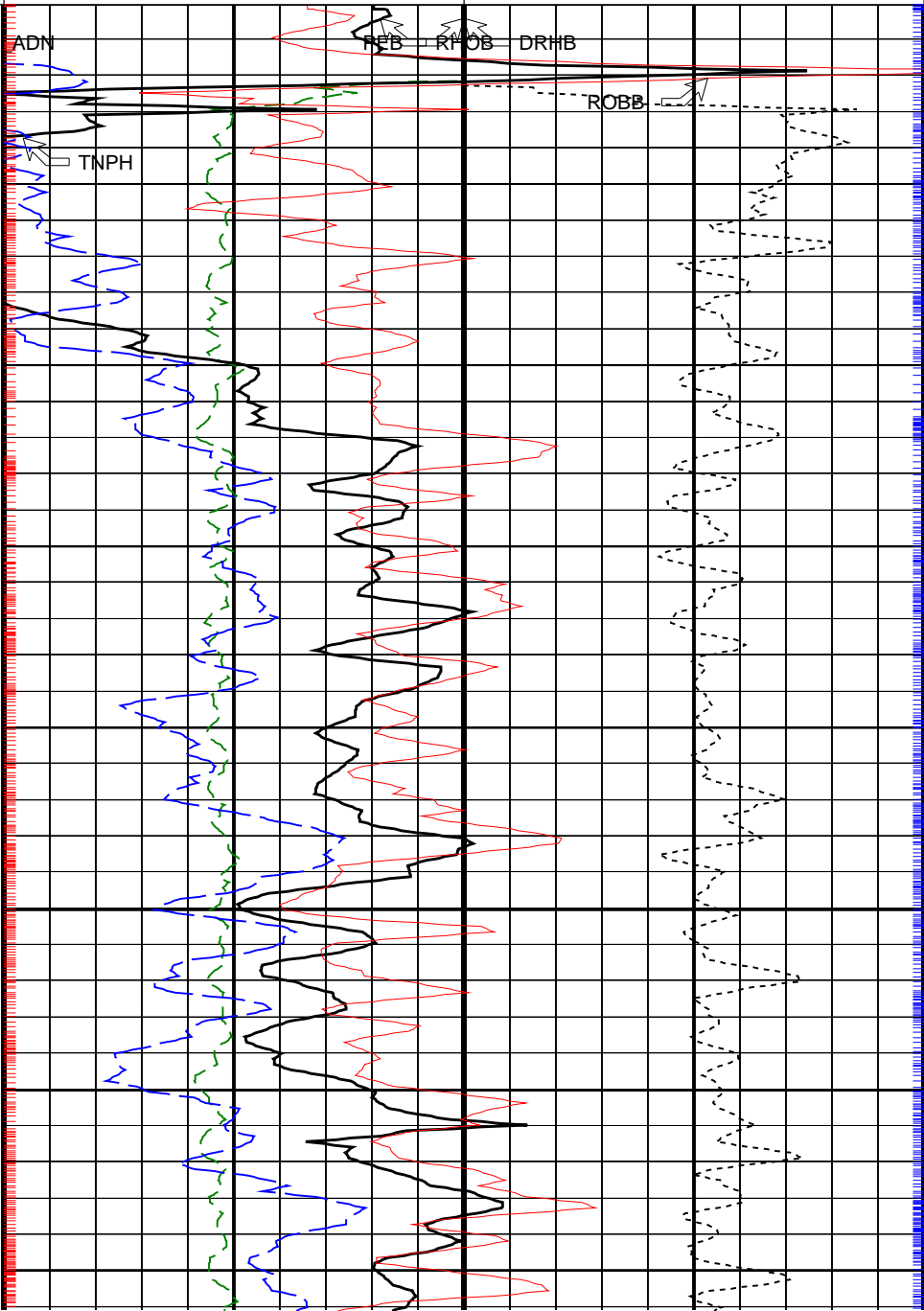
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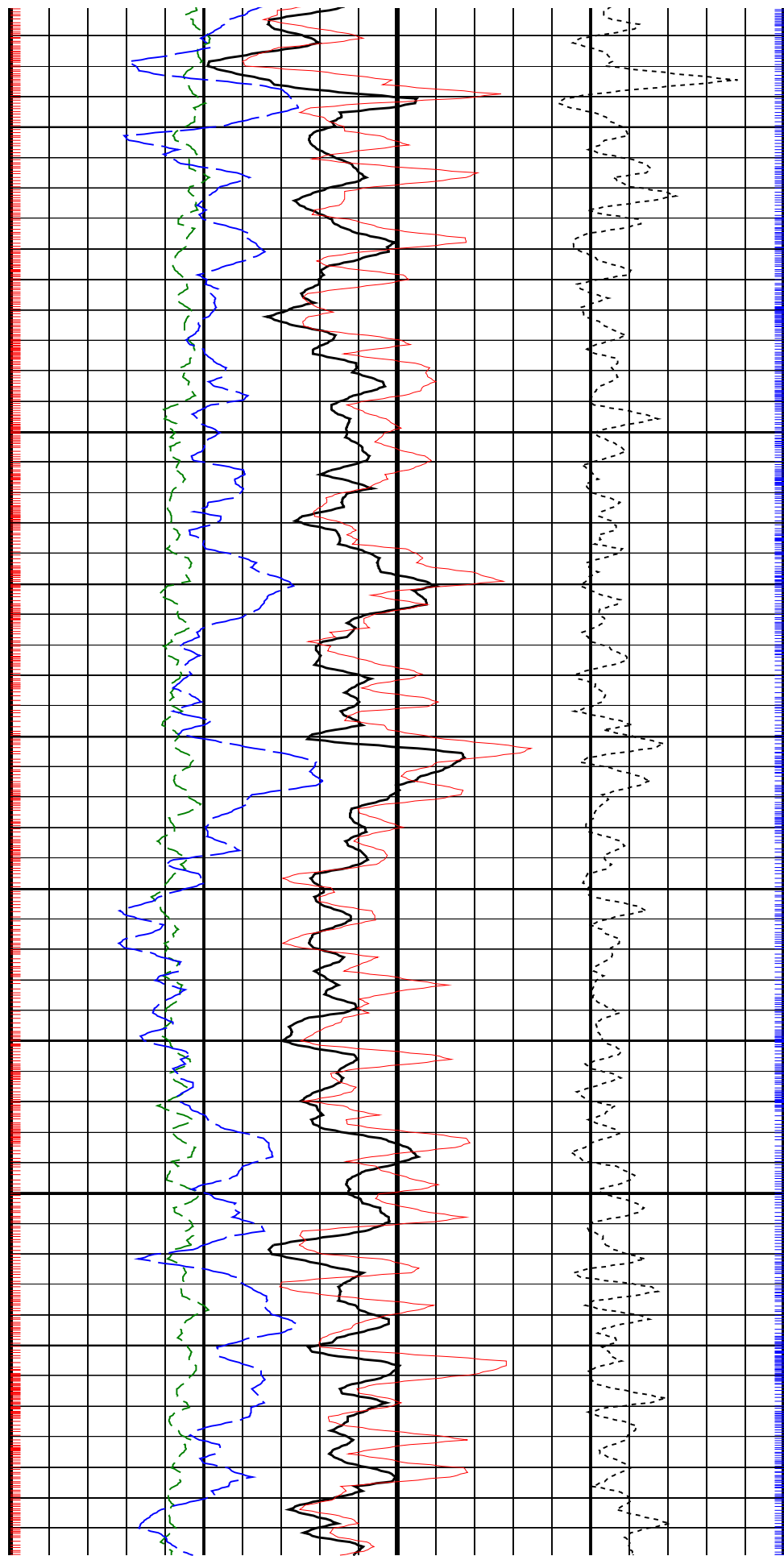
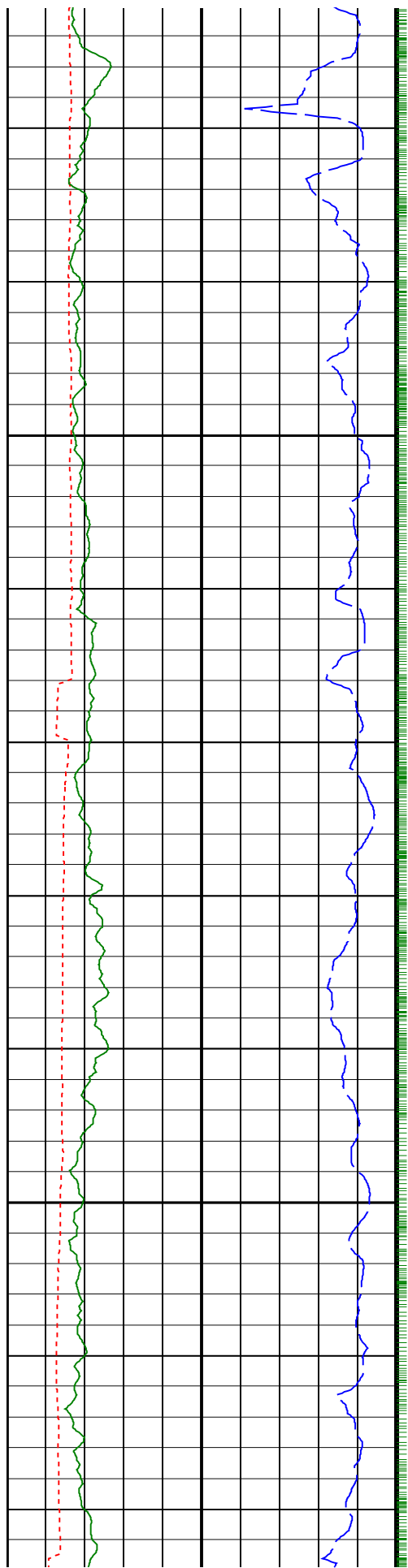
Bulk Density, Bottom (ROBB)
1.85 (G/C3) 2.85

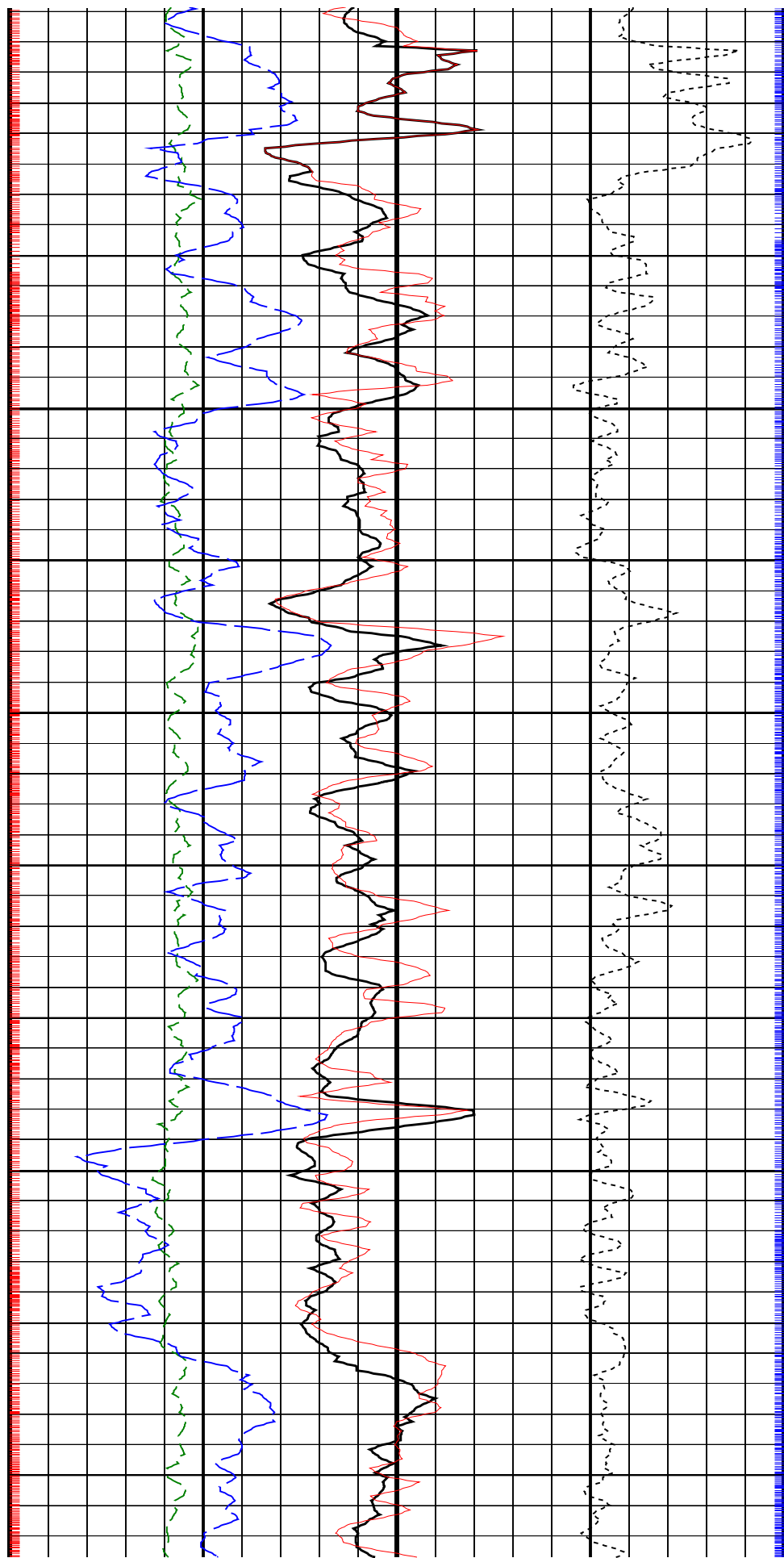
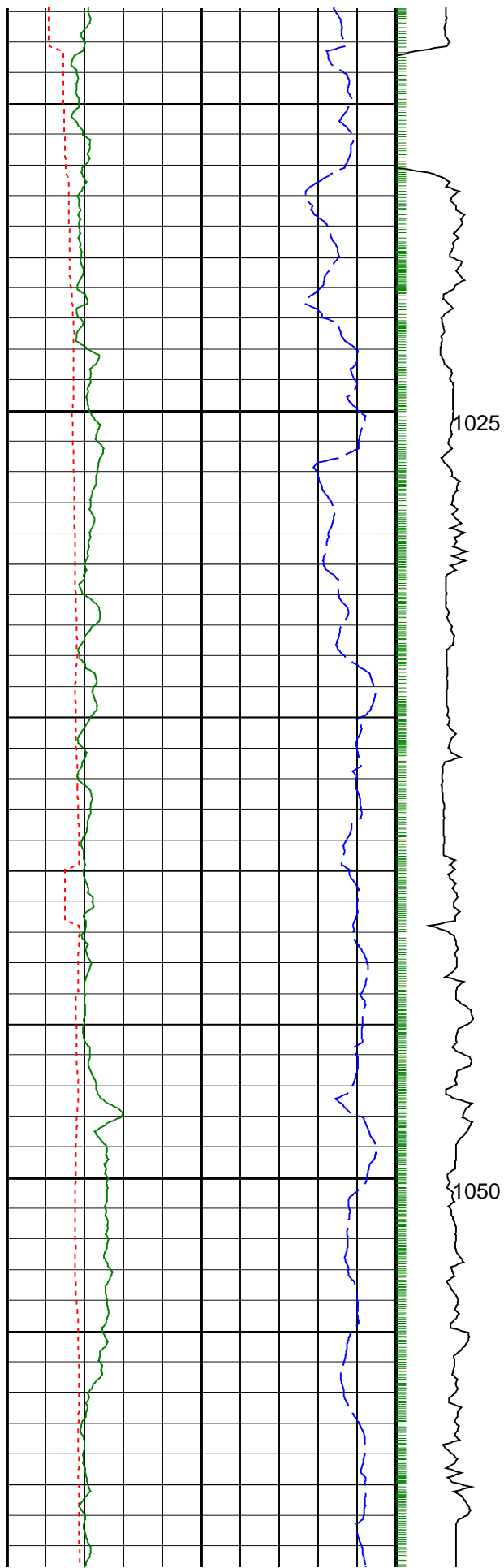
Bulk Density (RHOB)
1.85 (G/C3) 2.85

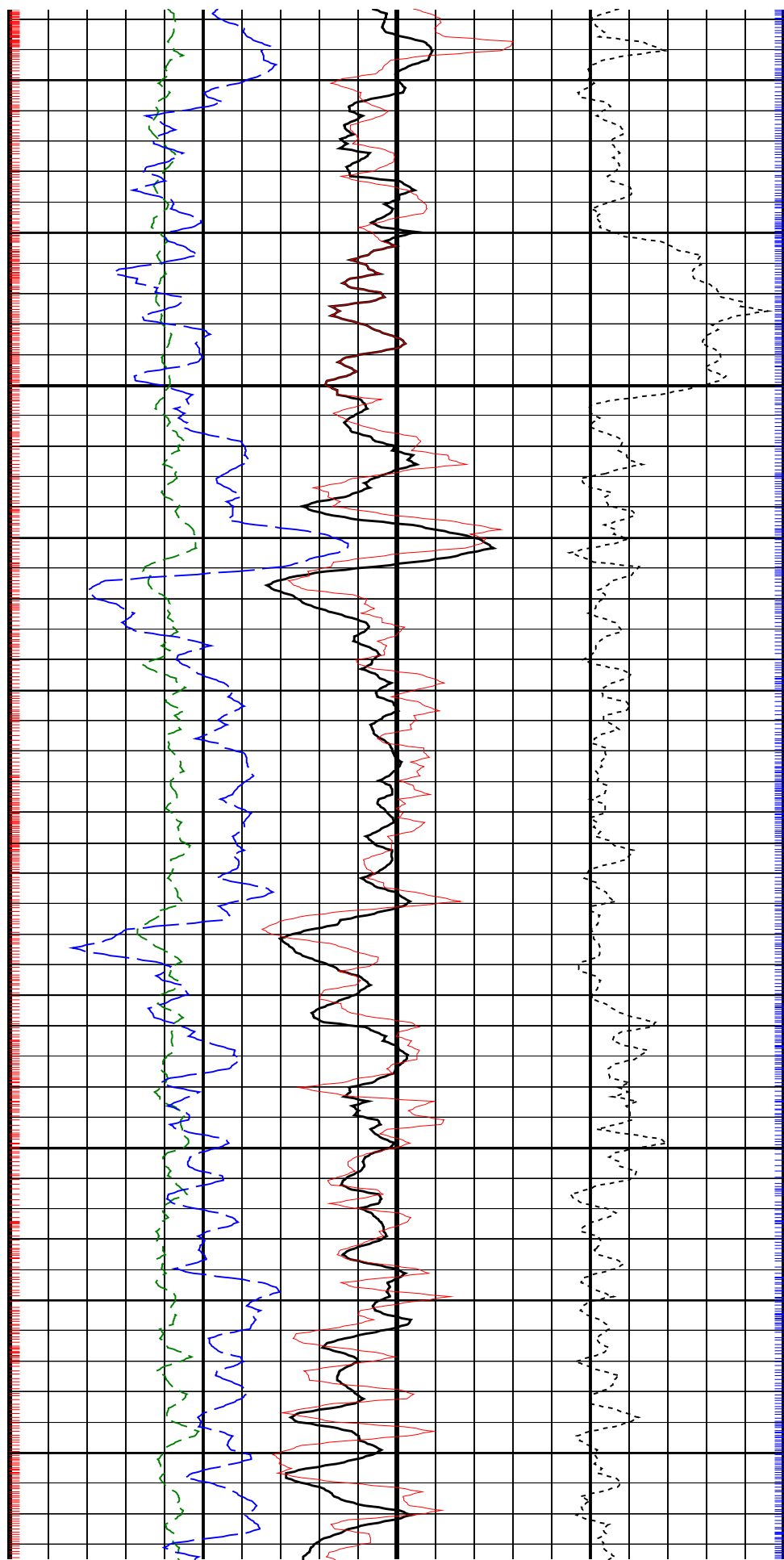
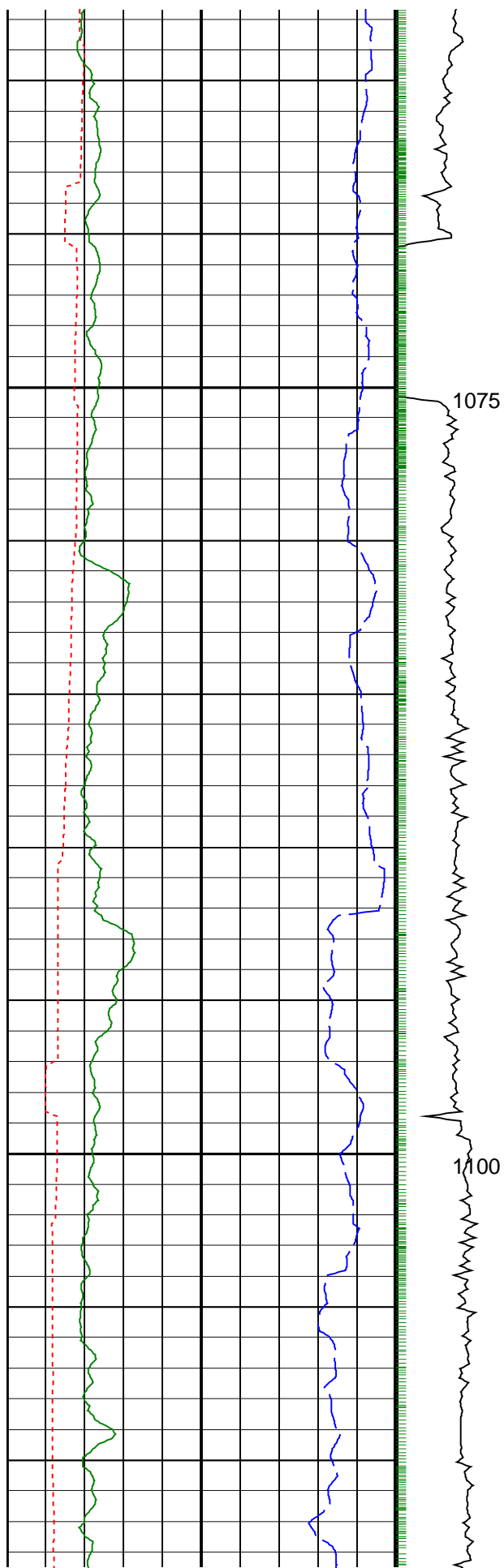
Photoelectric Factor, Bottom (PEB)
0 (----) 10

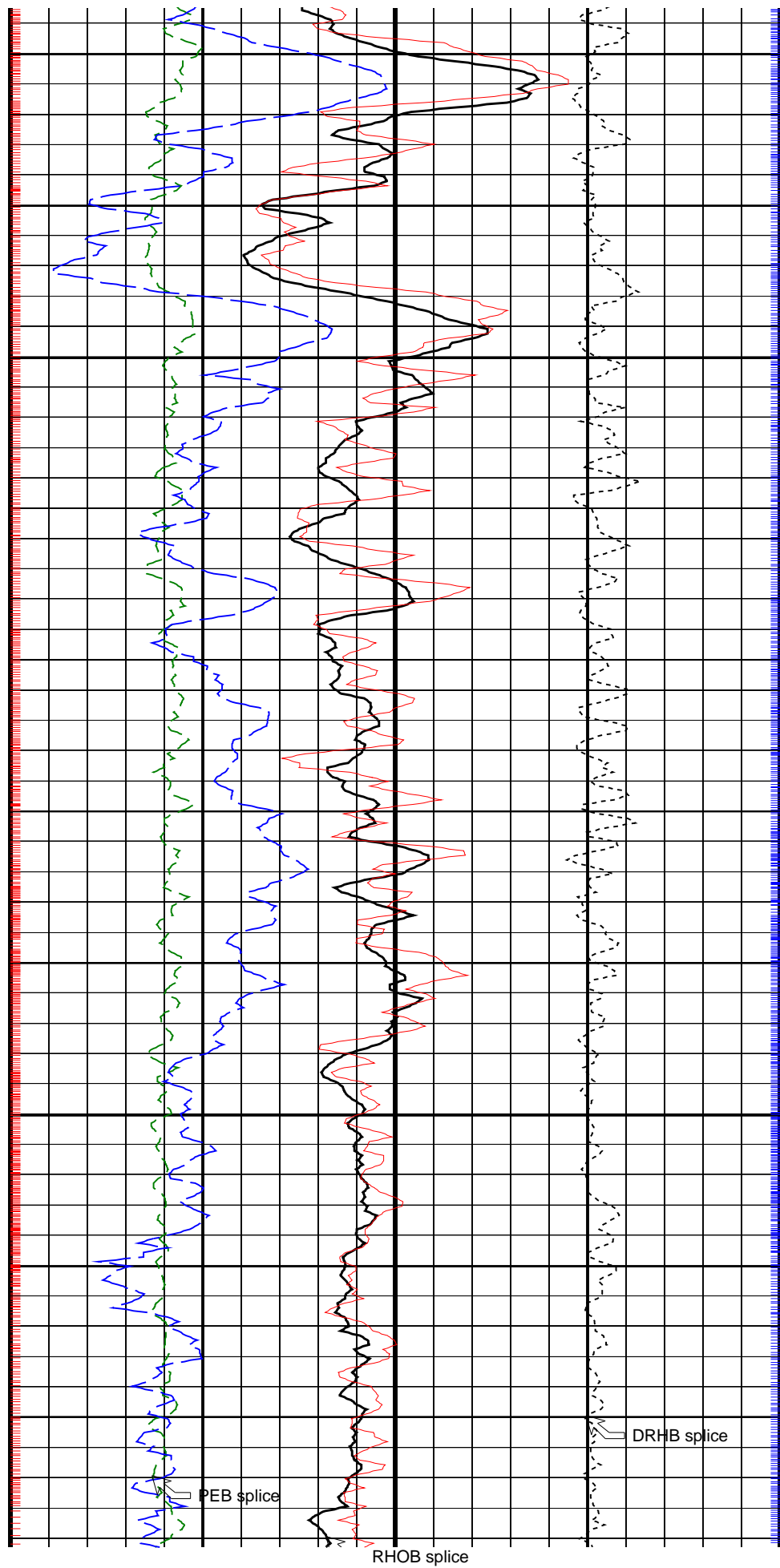
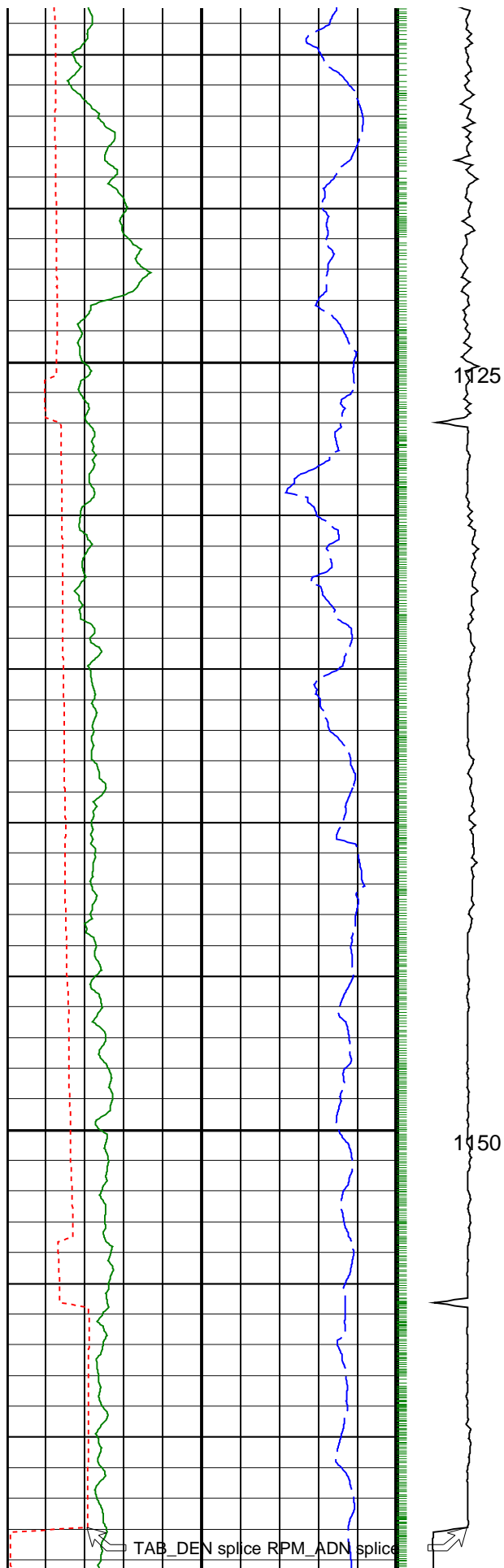
Bulk Density Correction, Bottom
(DRHB)
-0.25 (G/C3) 0.25

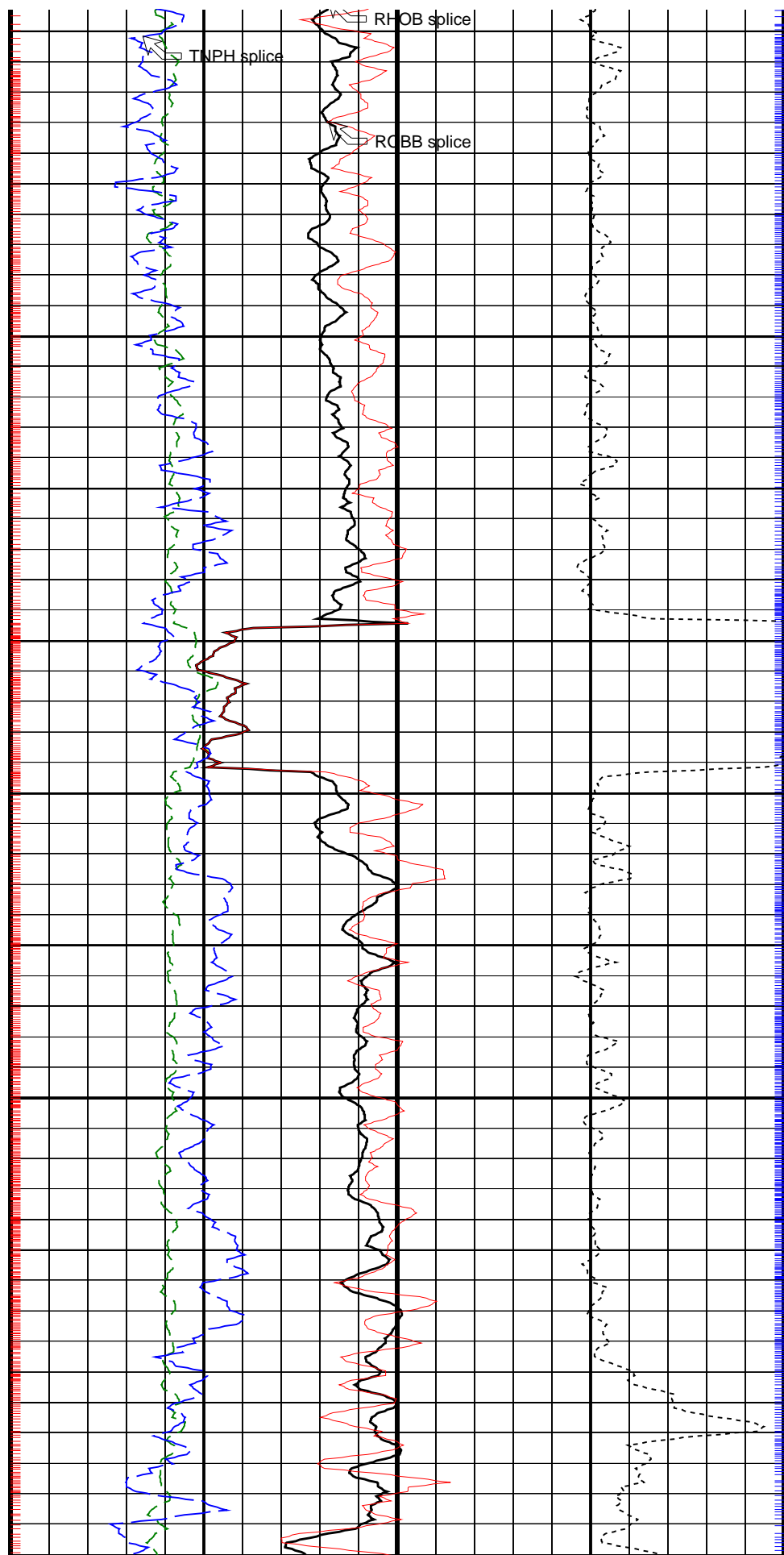
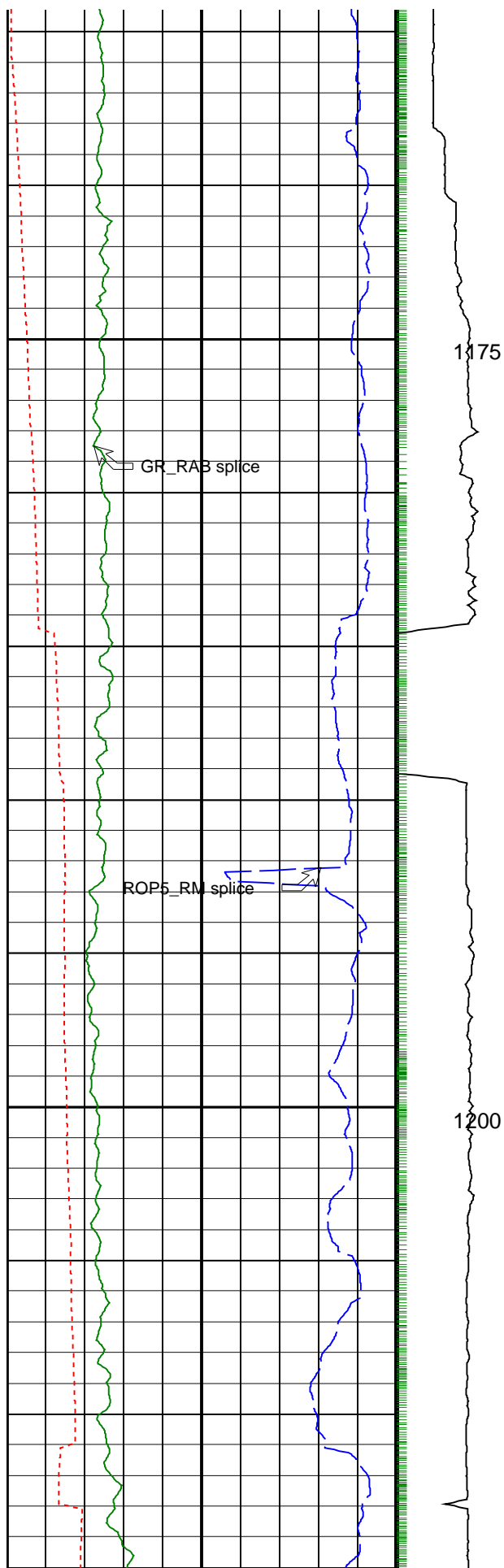


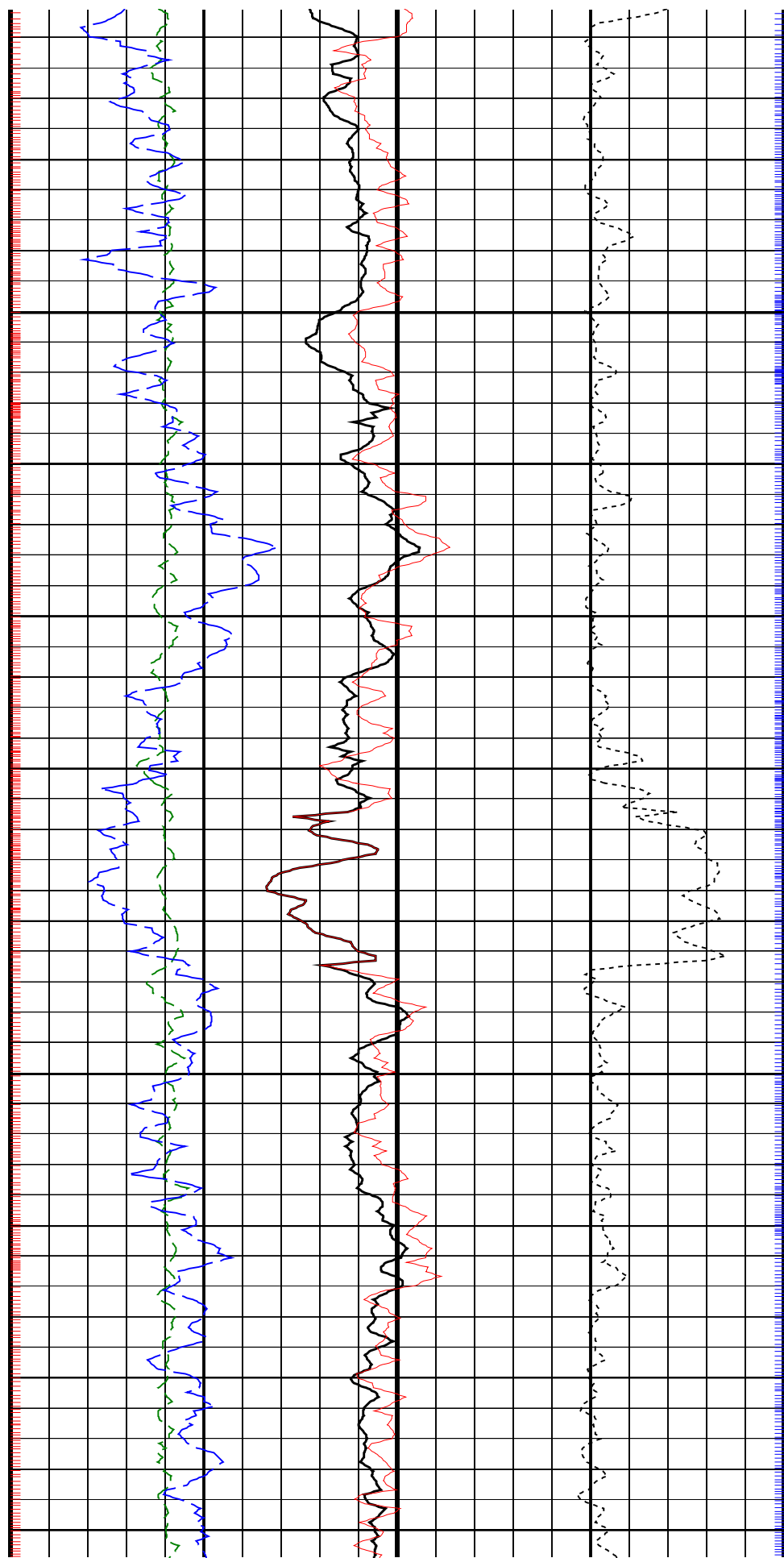
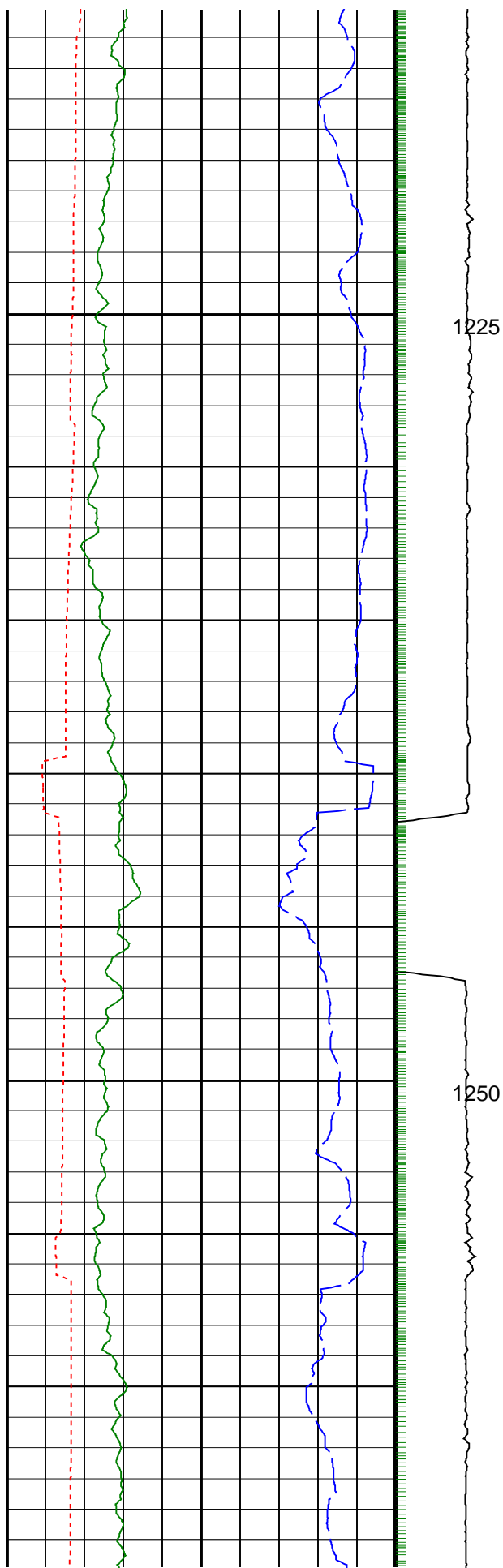


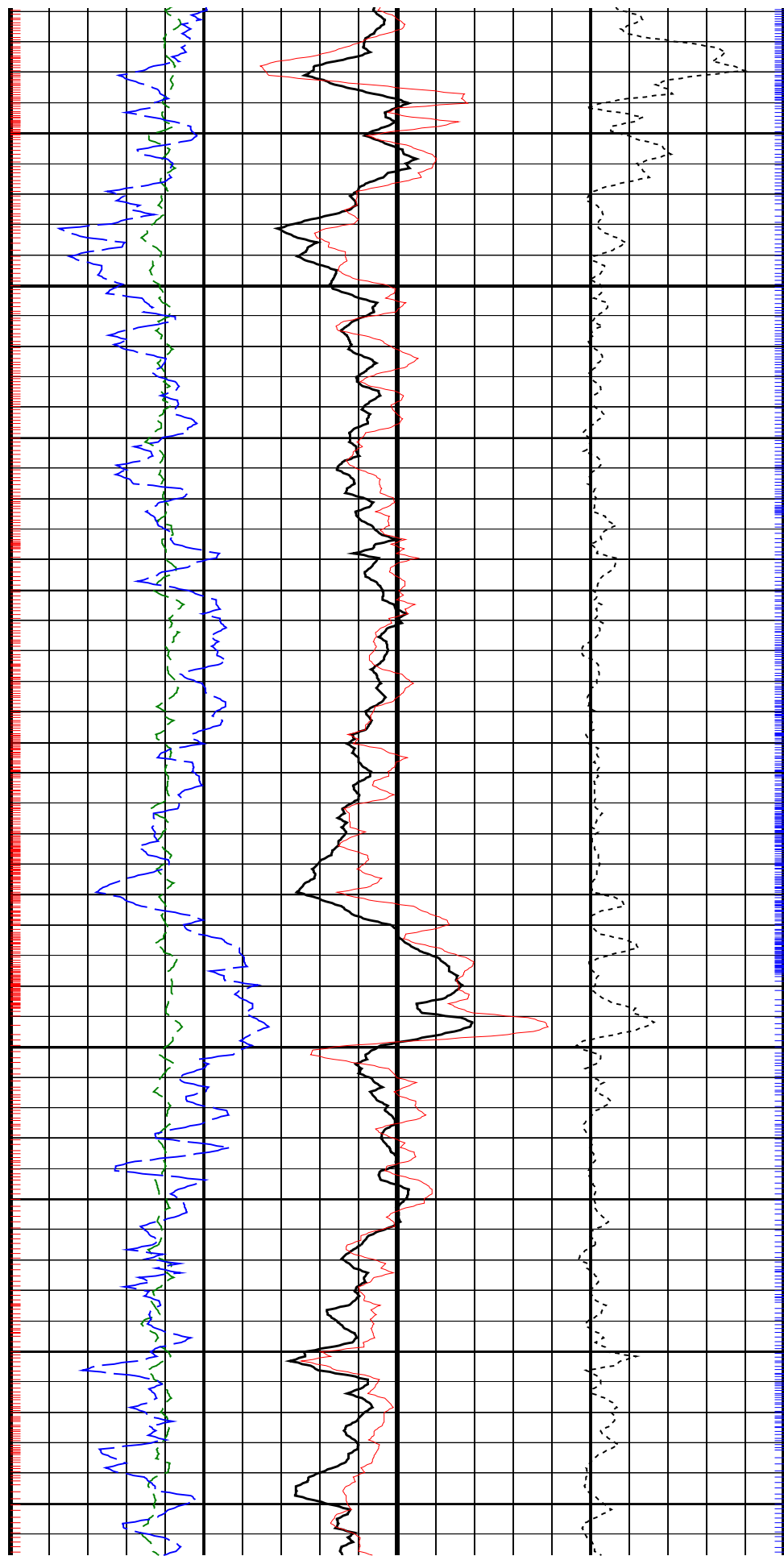
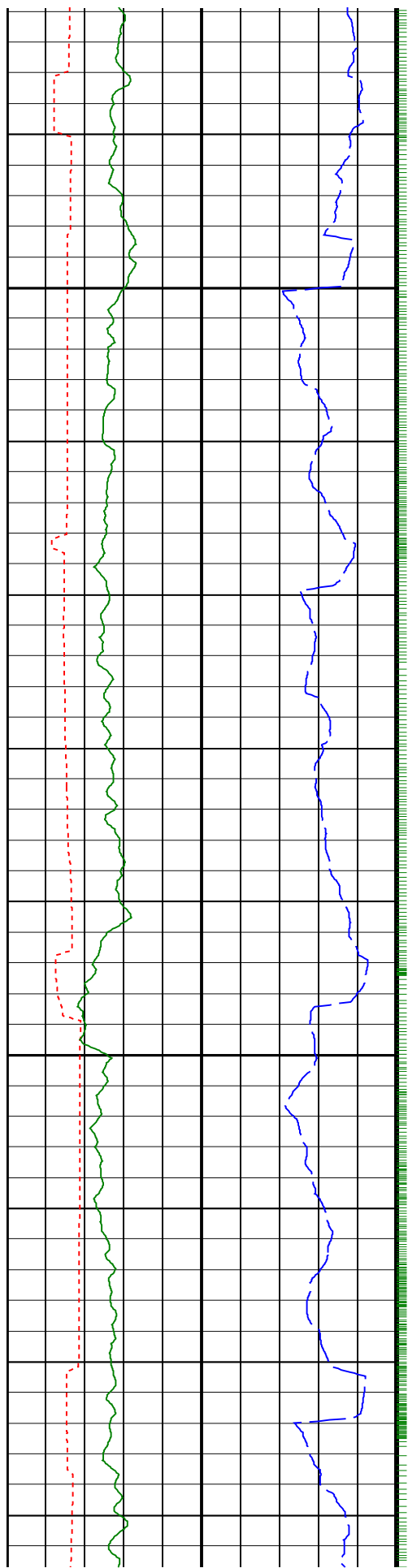


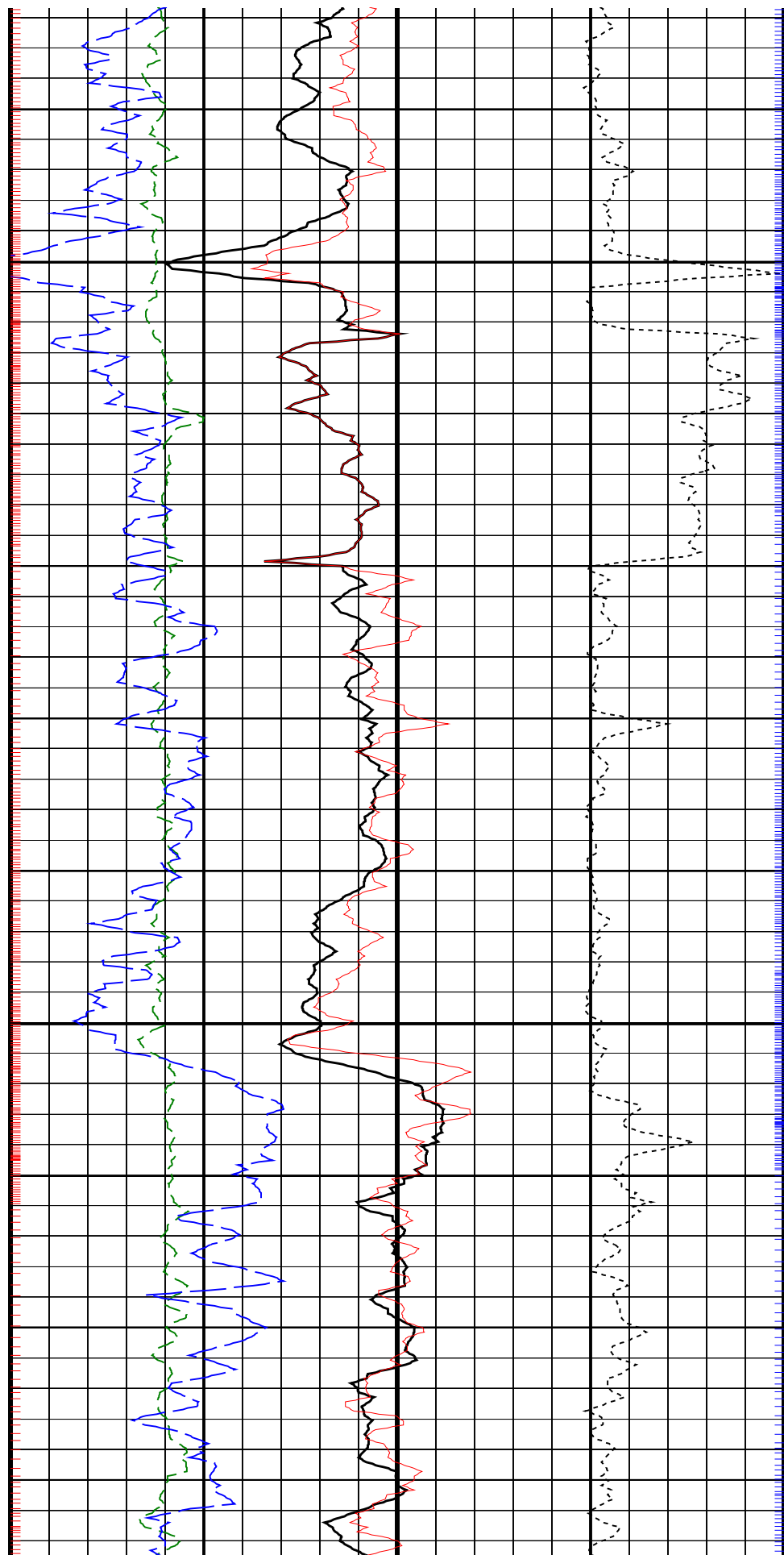
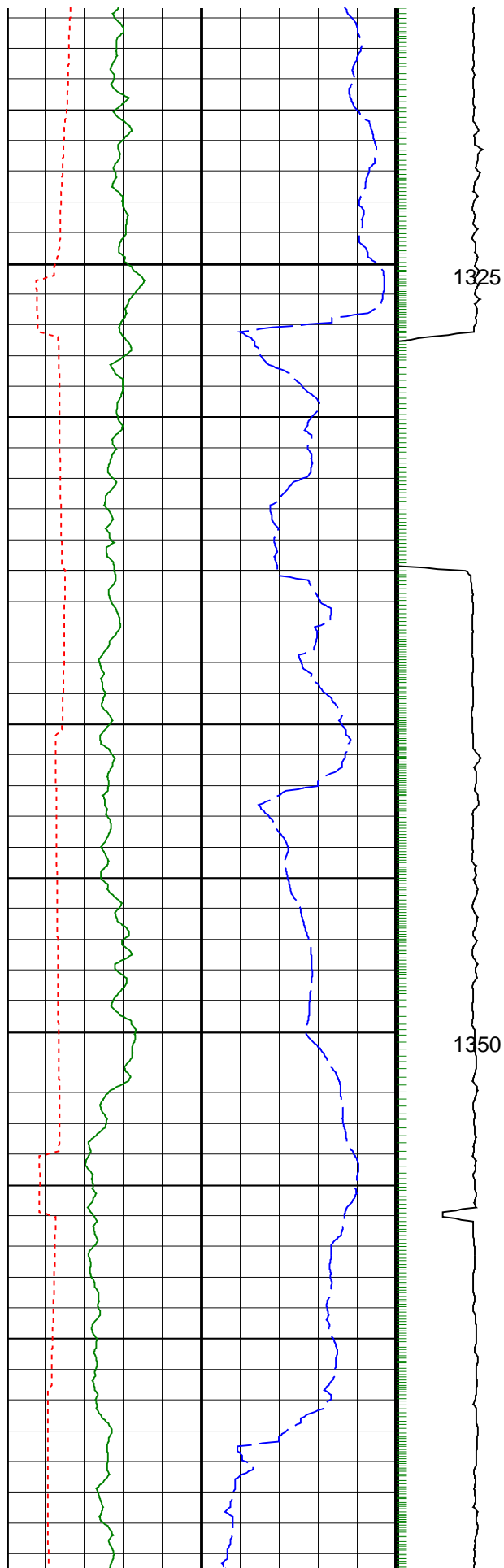


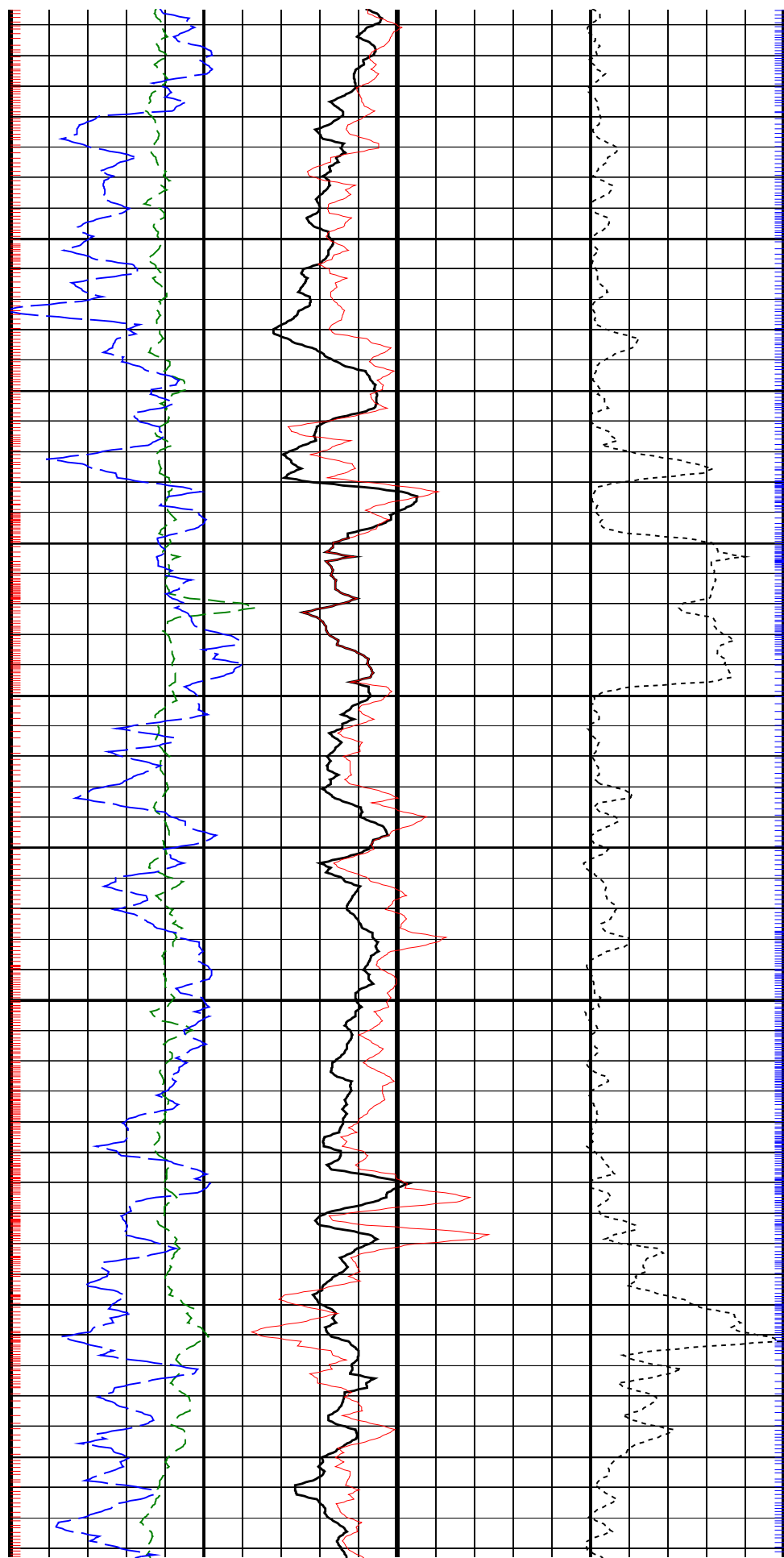
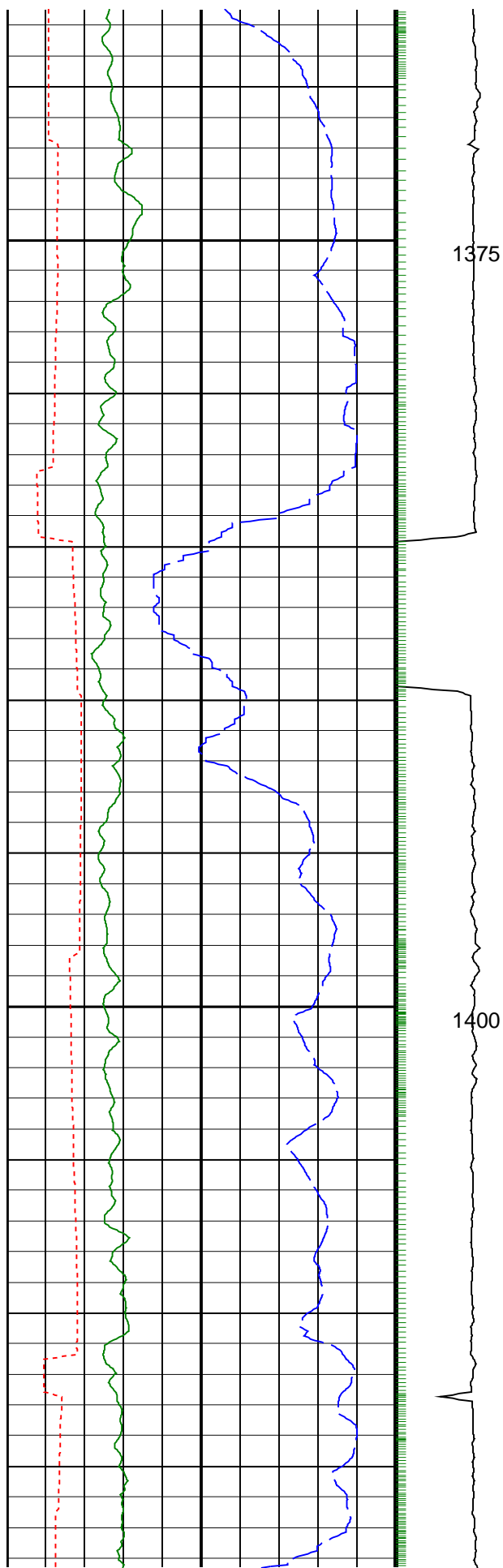


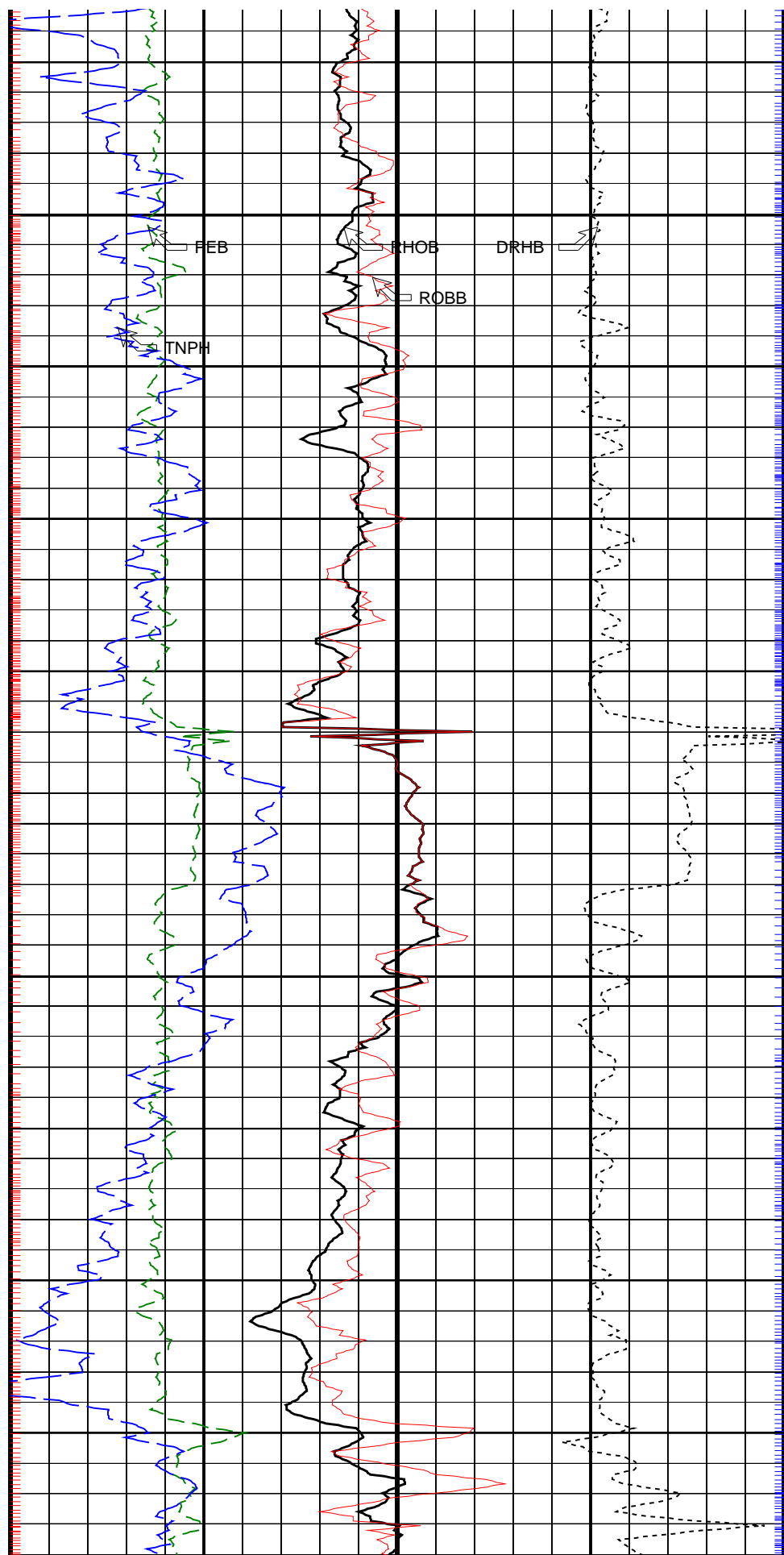
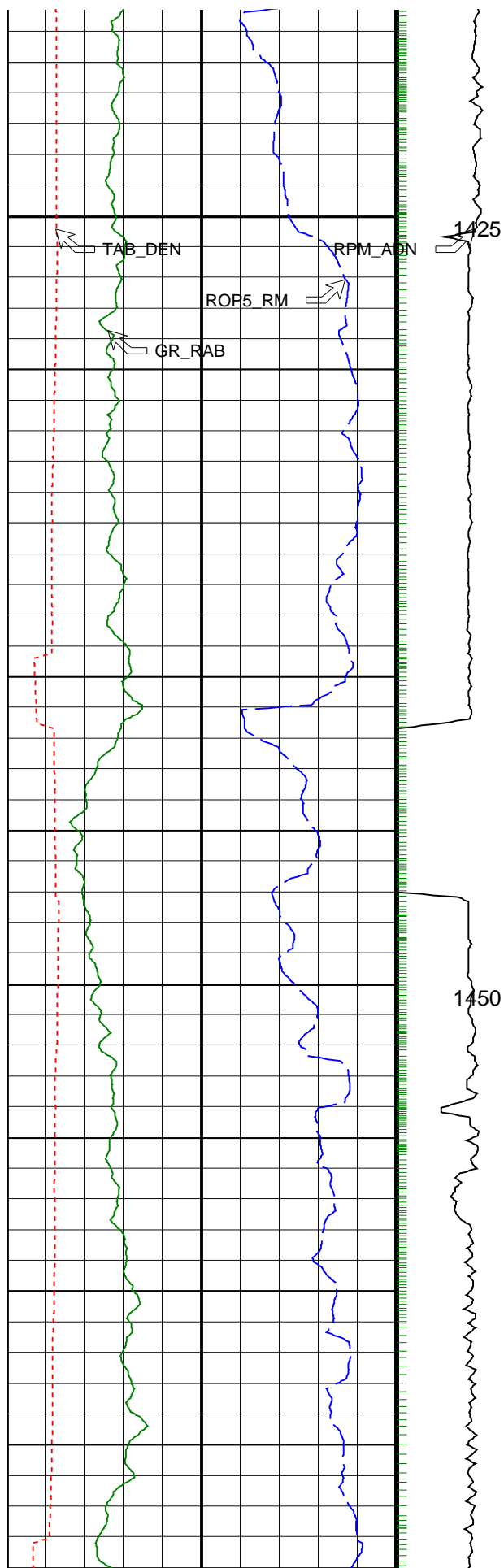


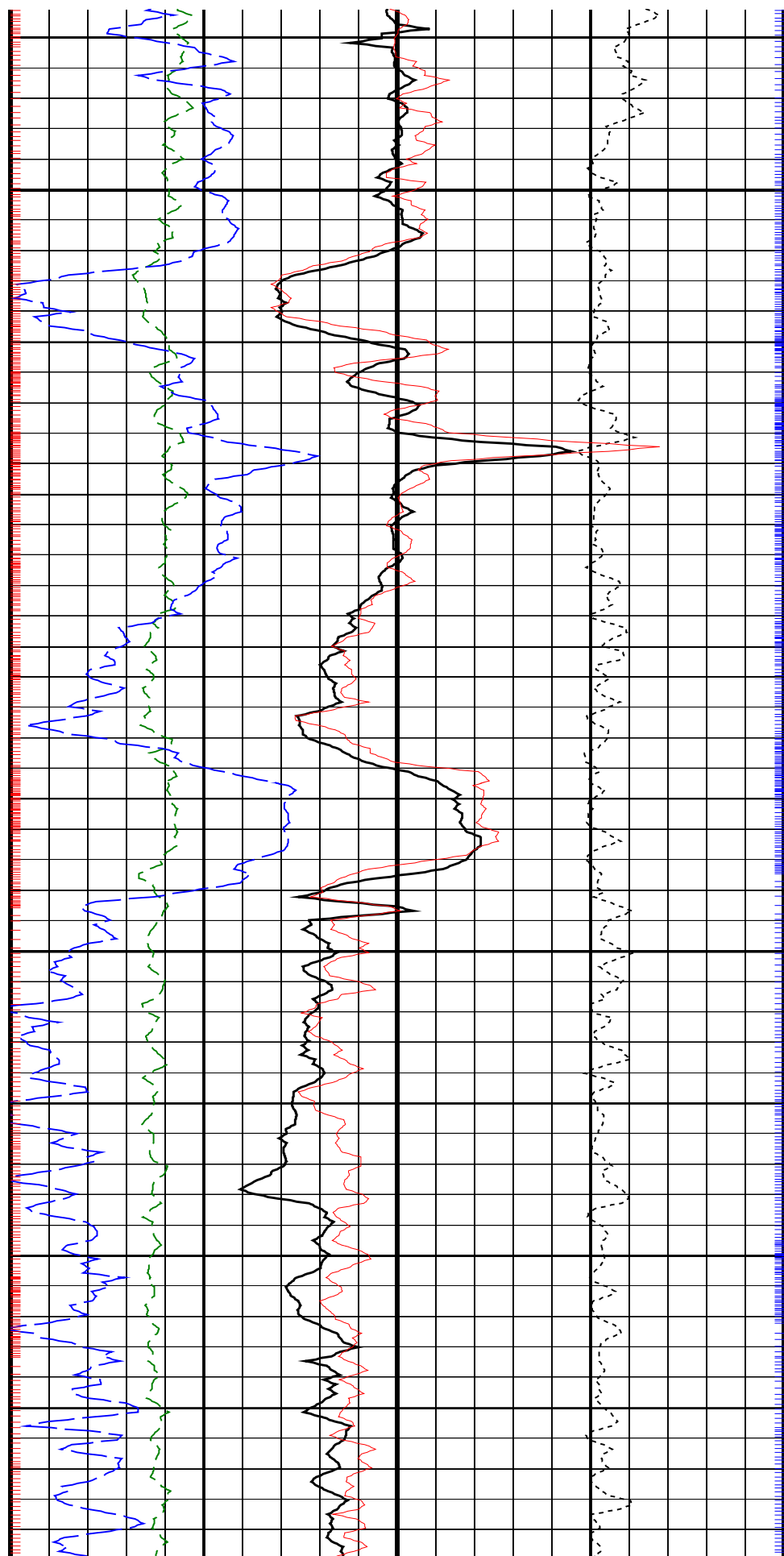
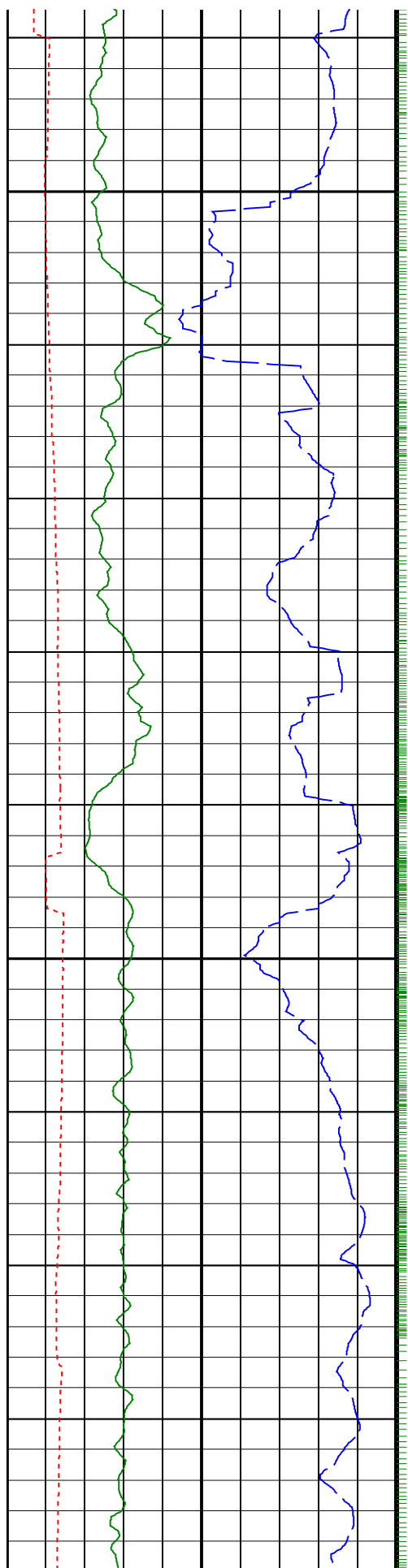


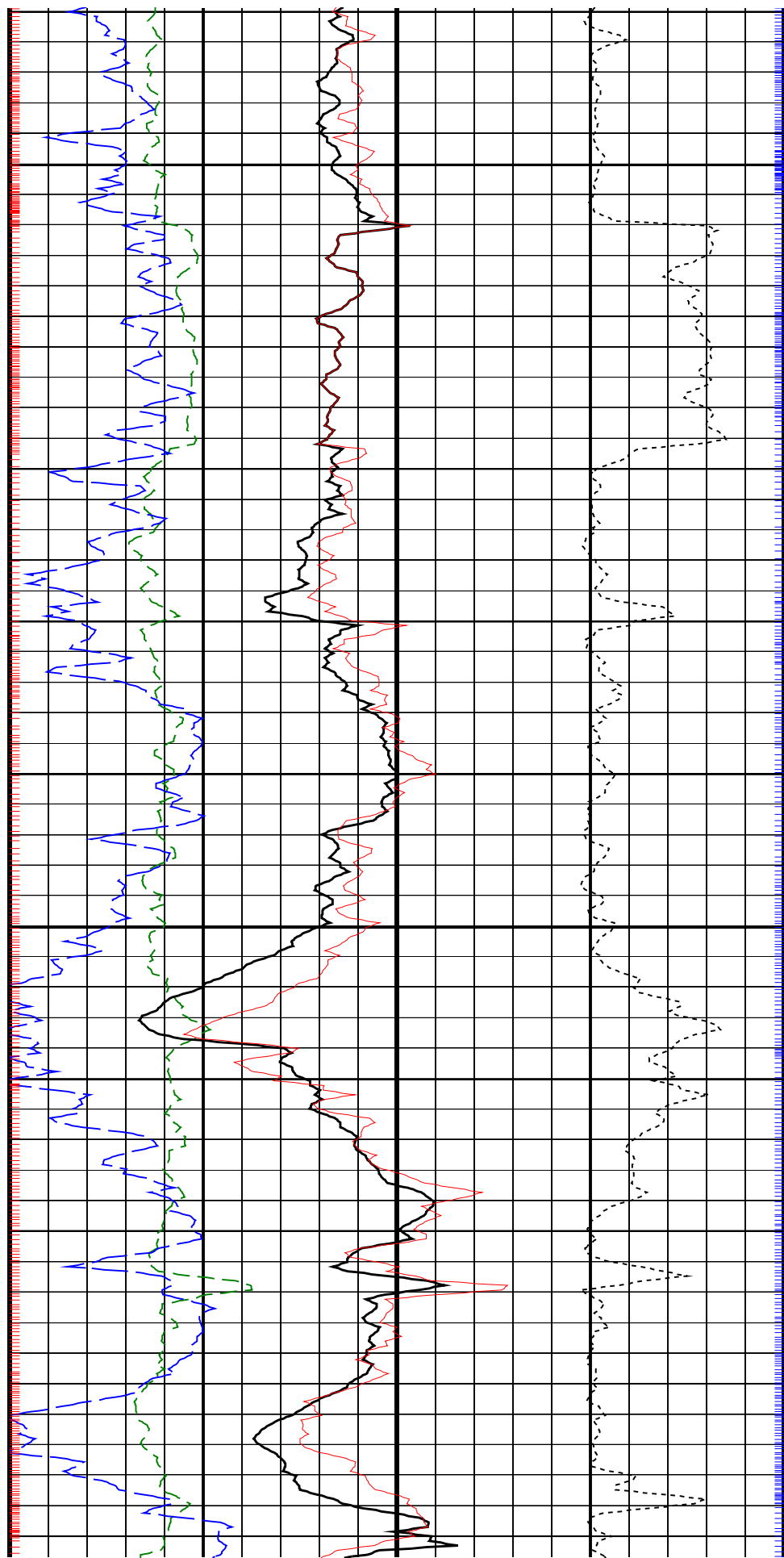
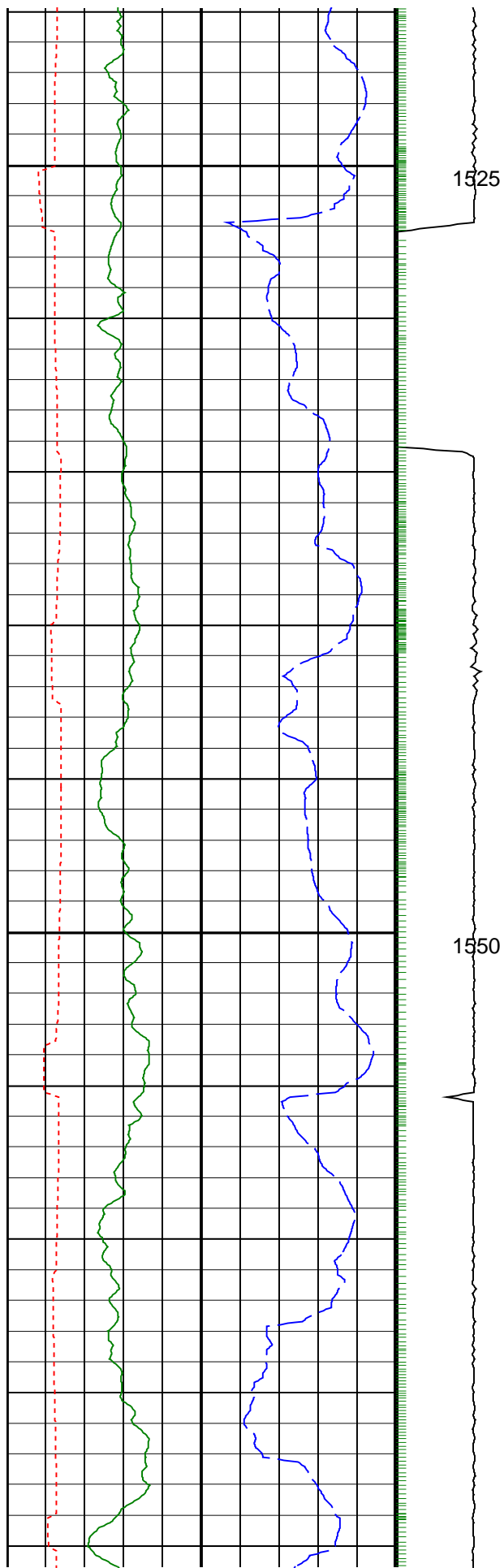


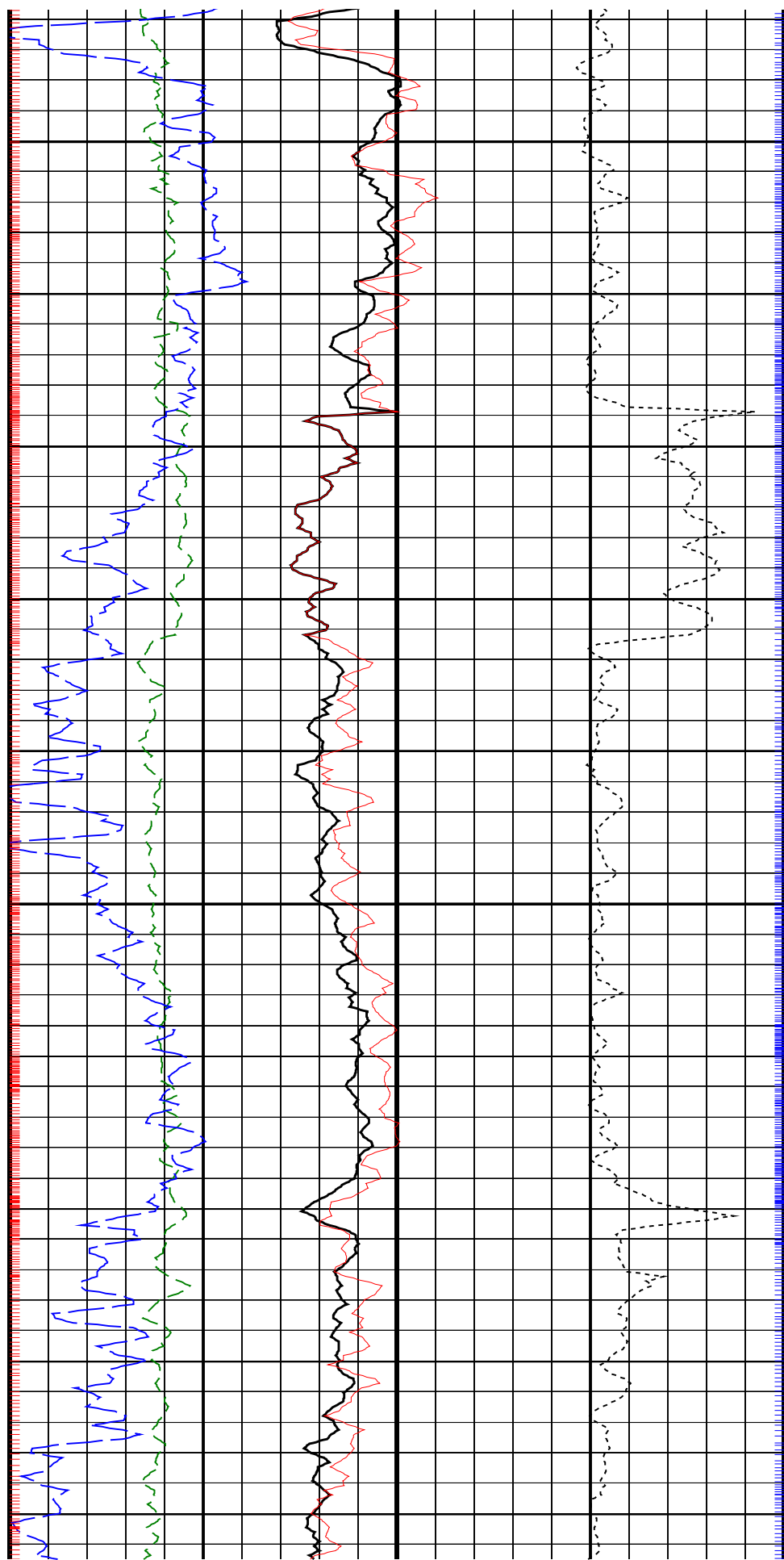
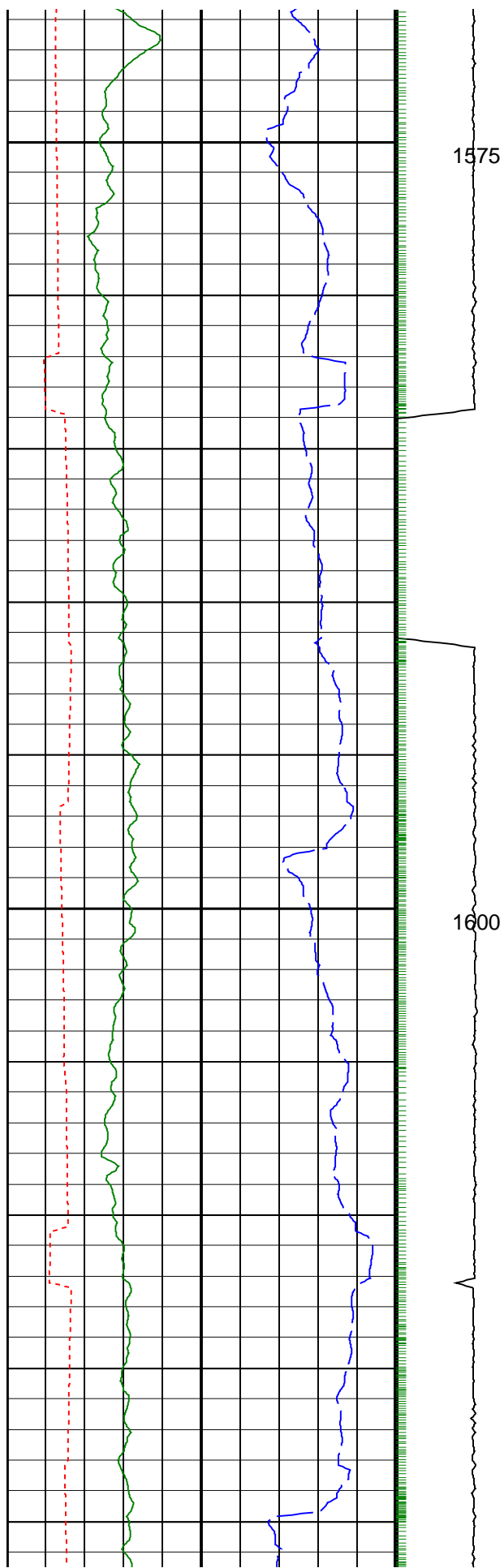


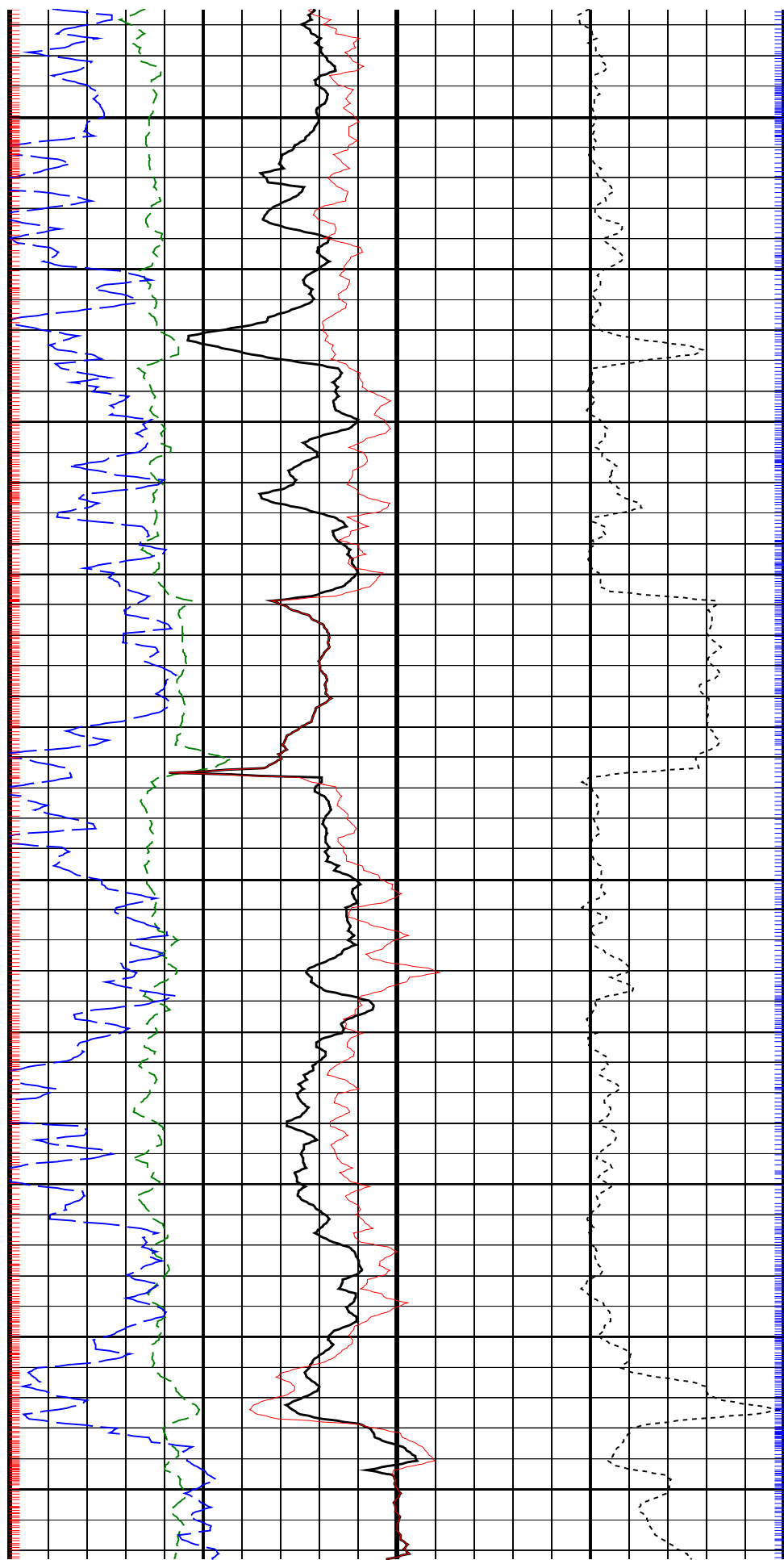
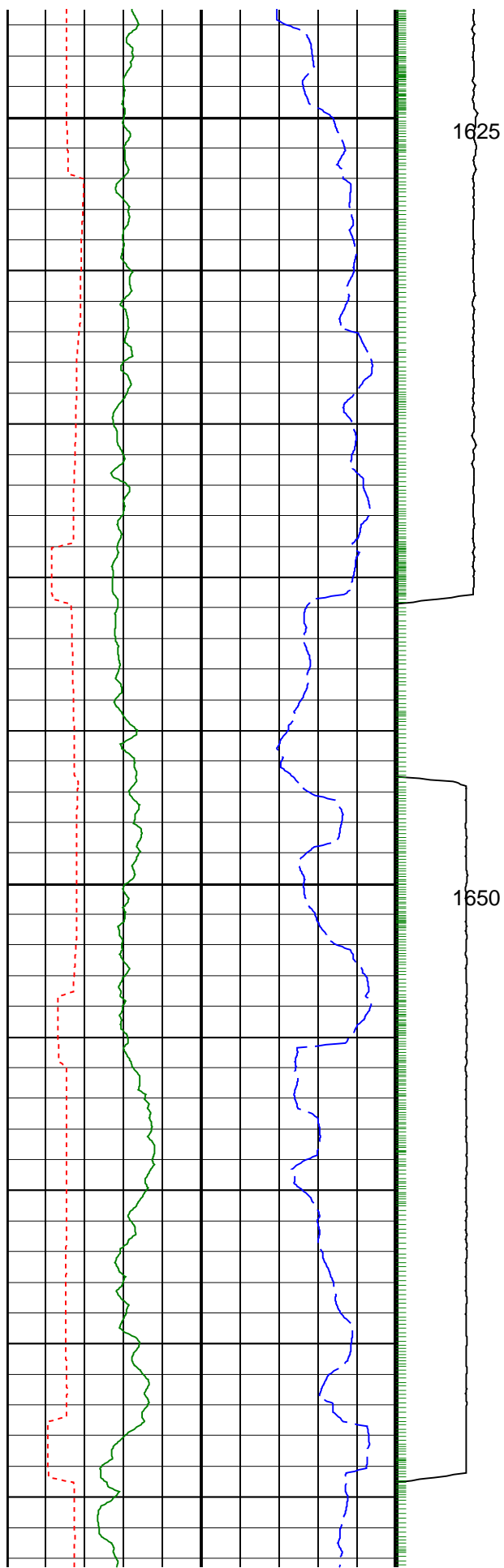


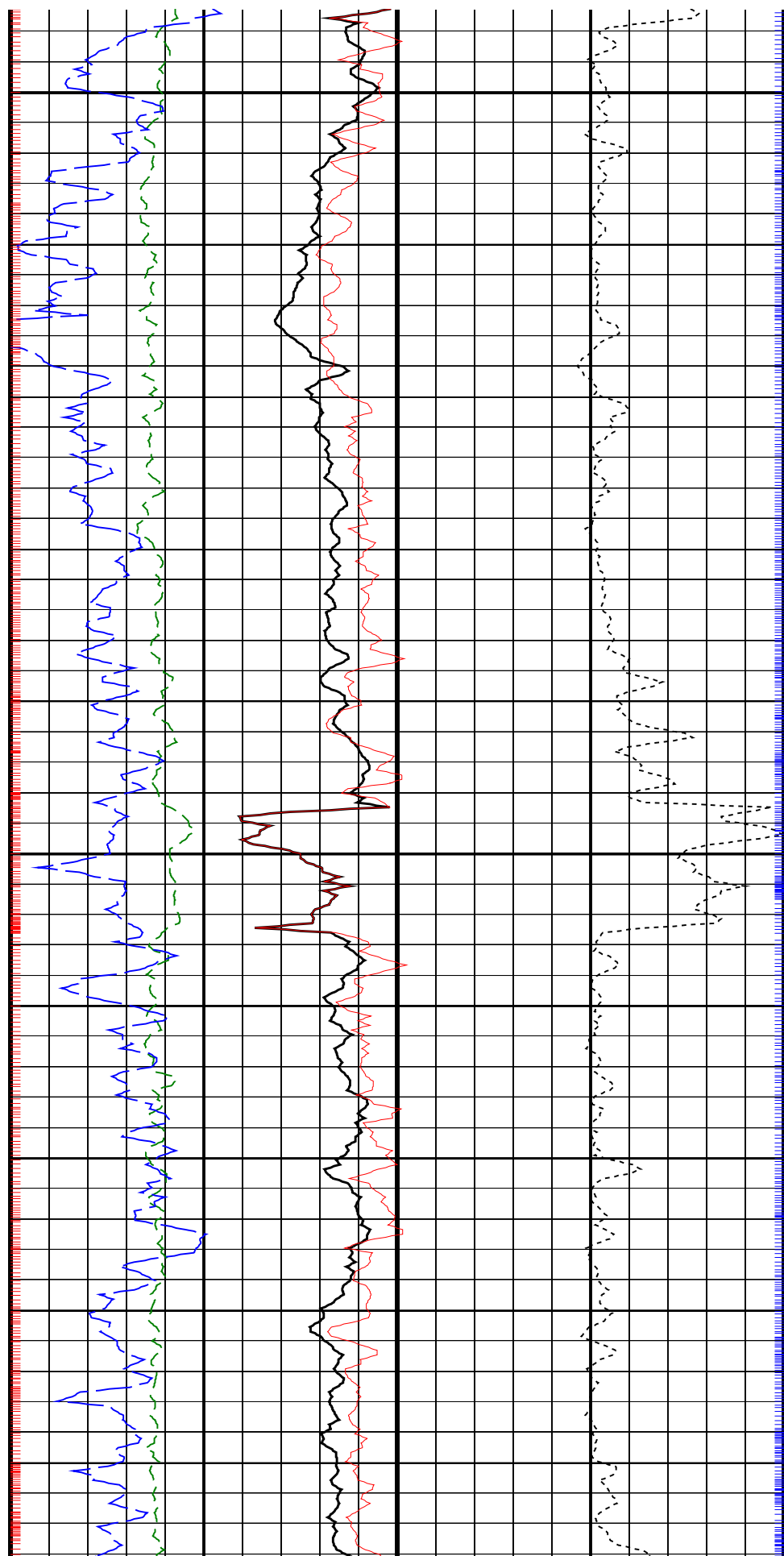
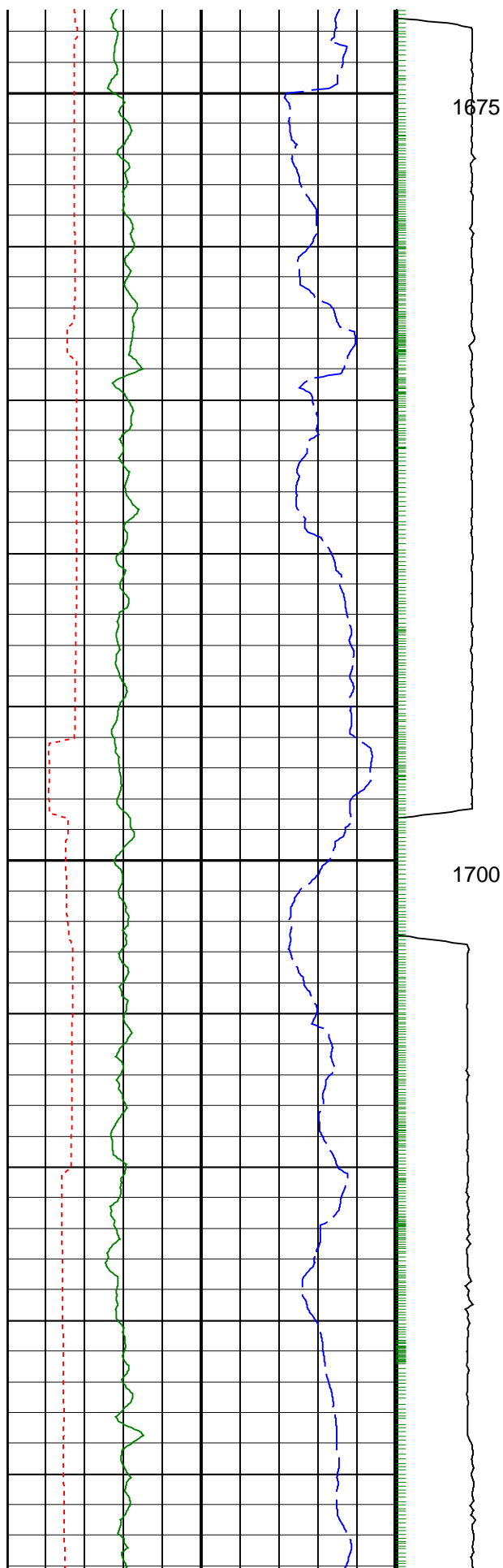


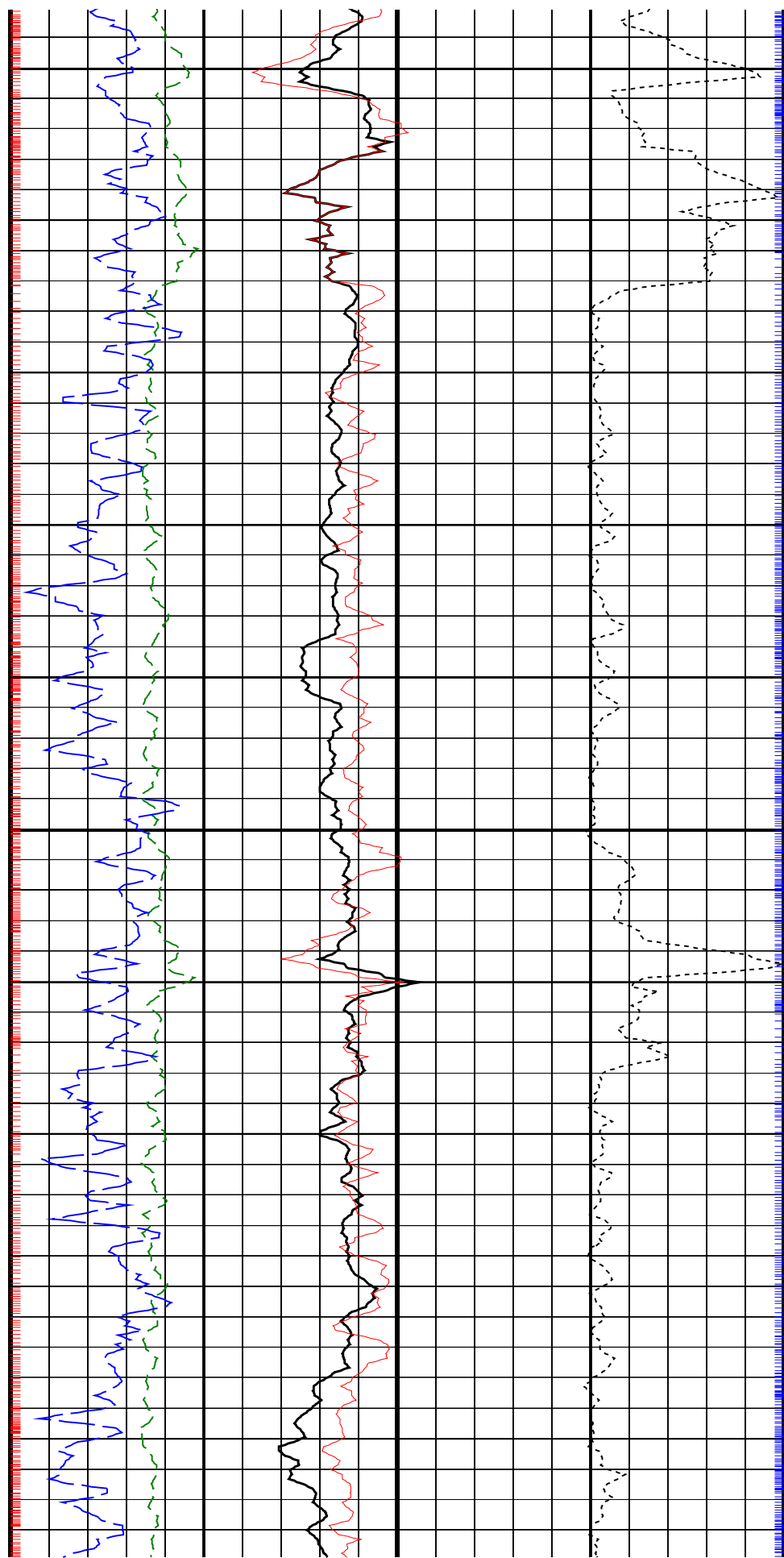
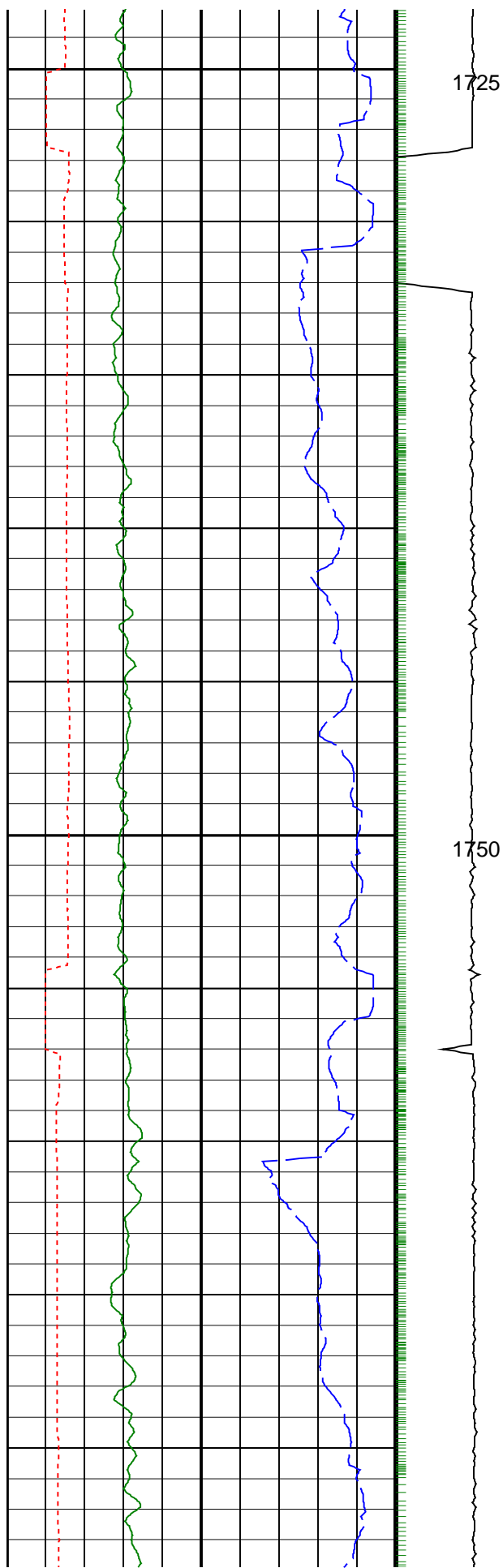


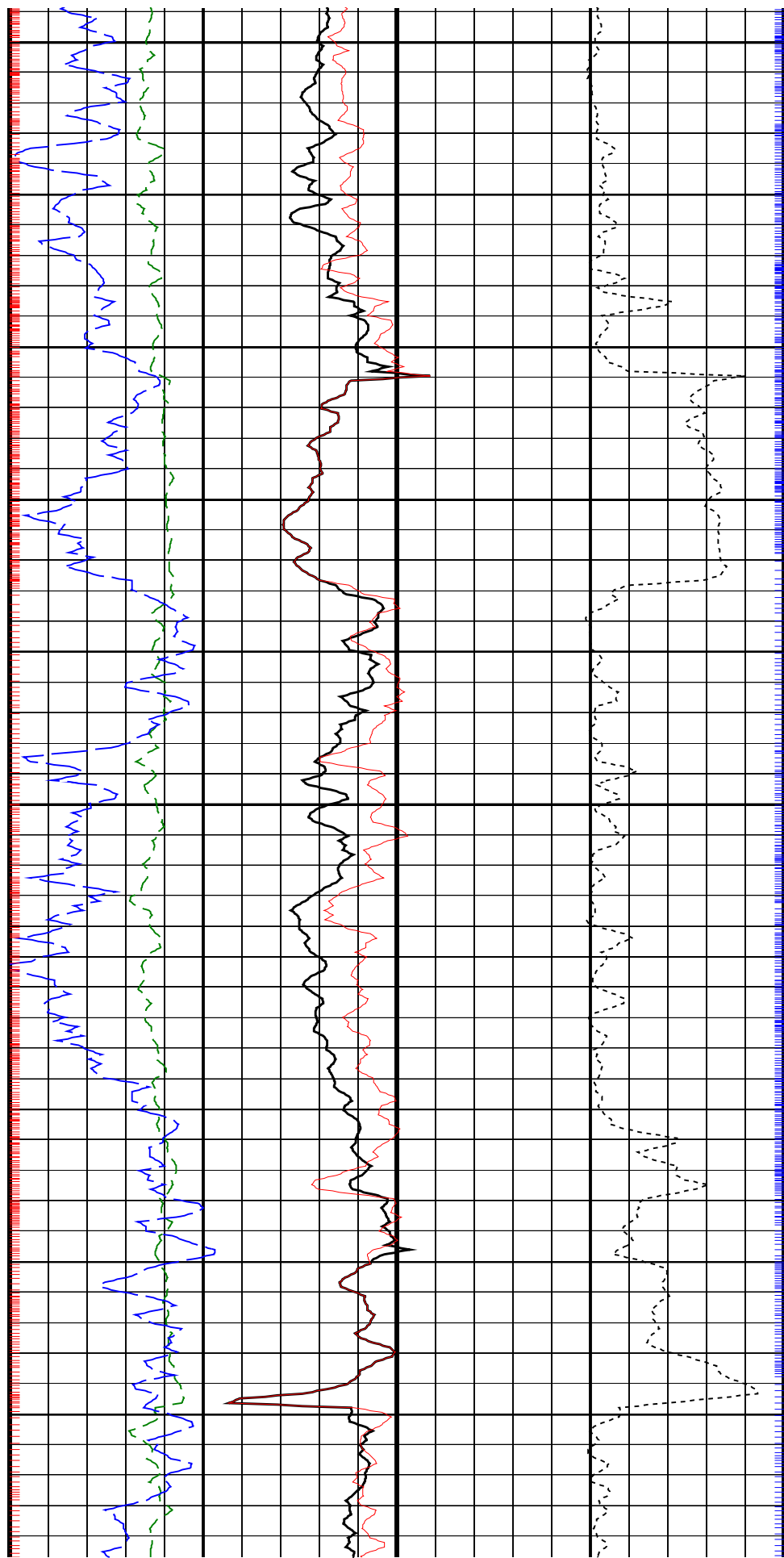
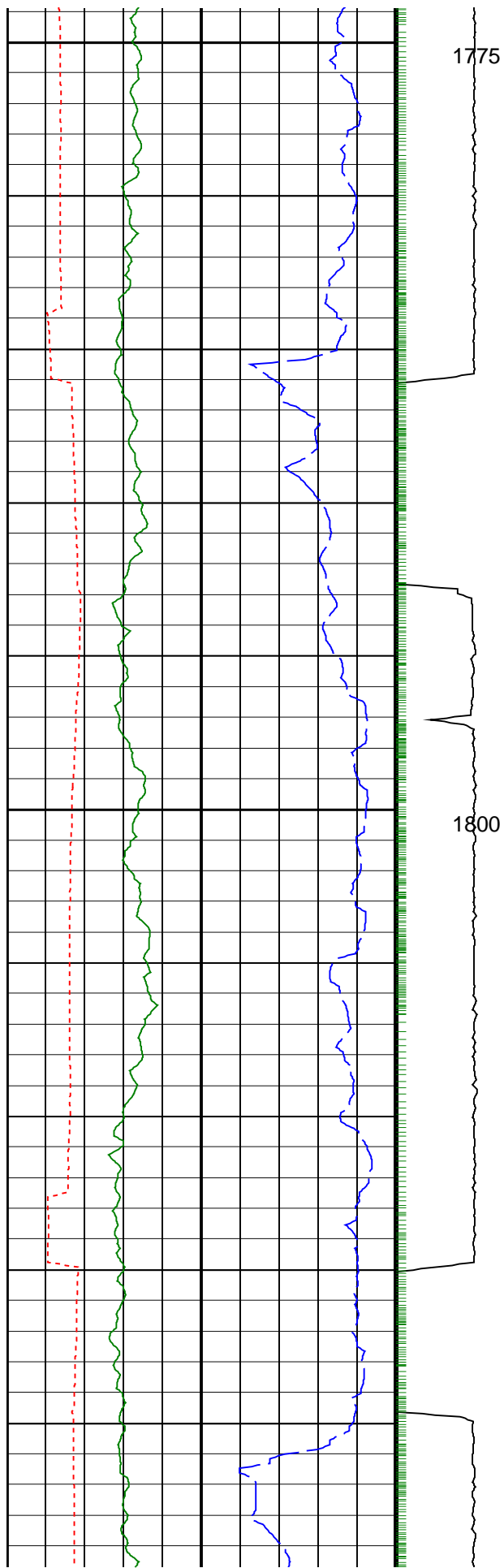


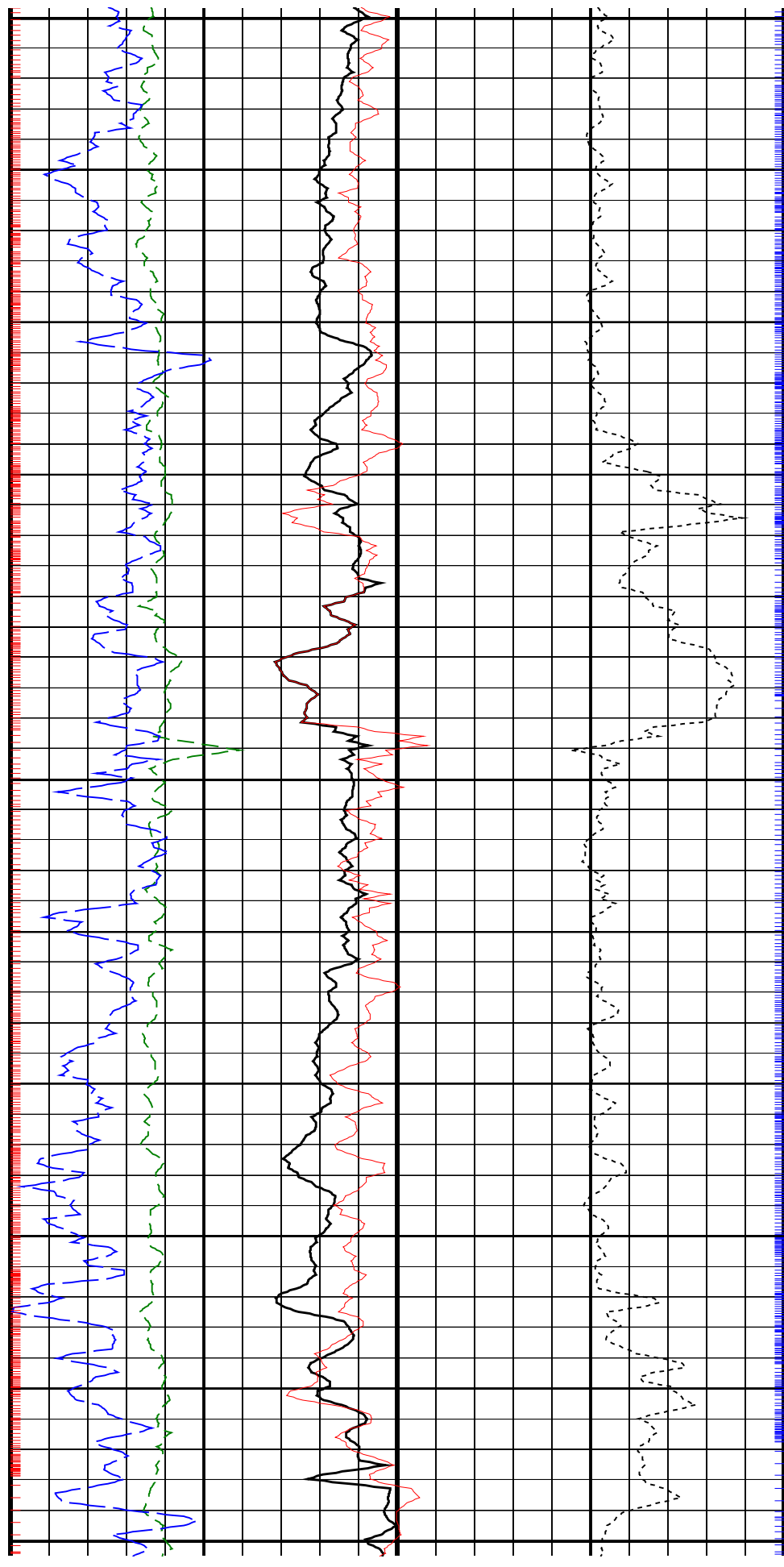
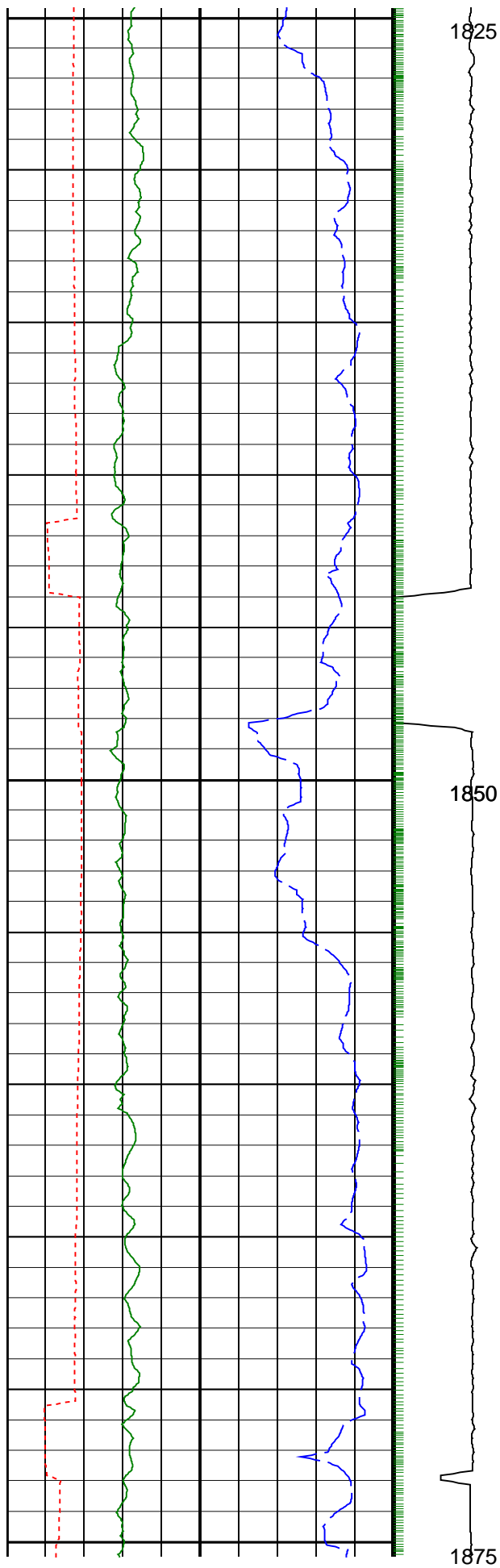


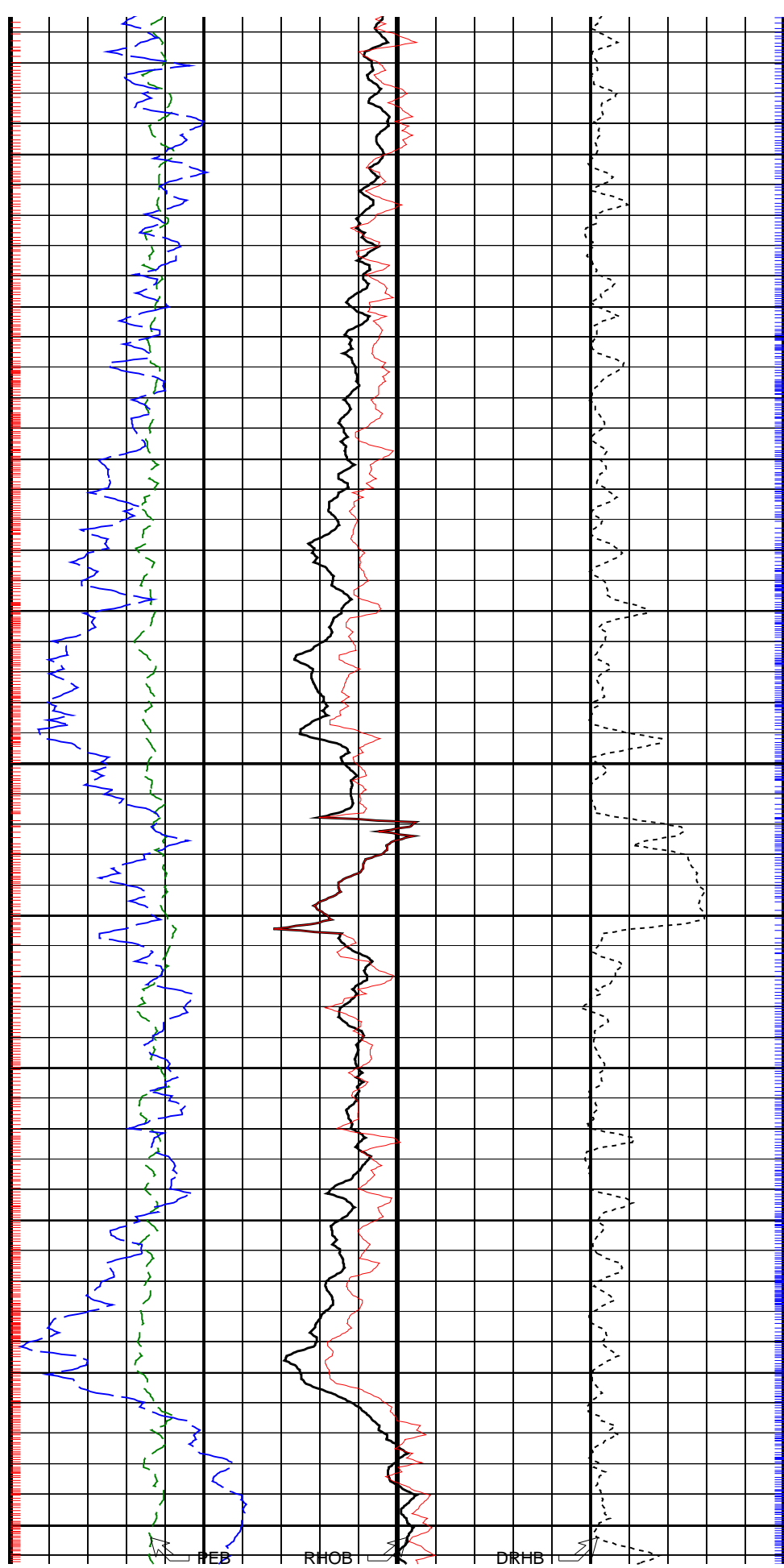
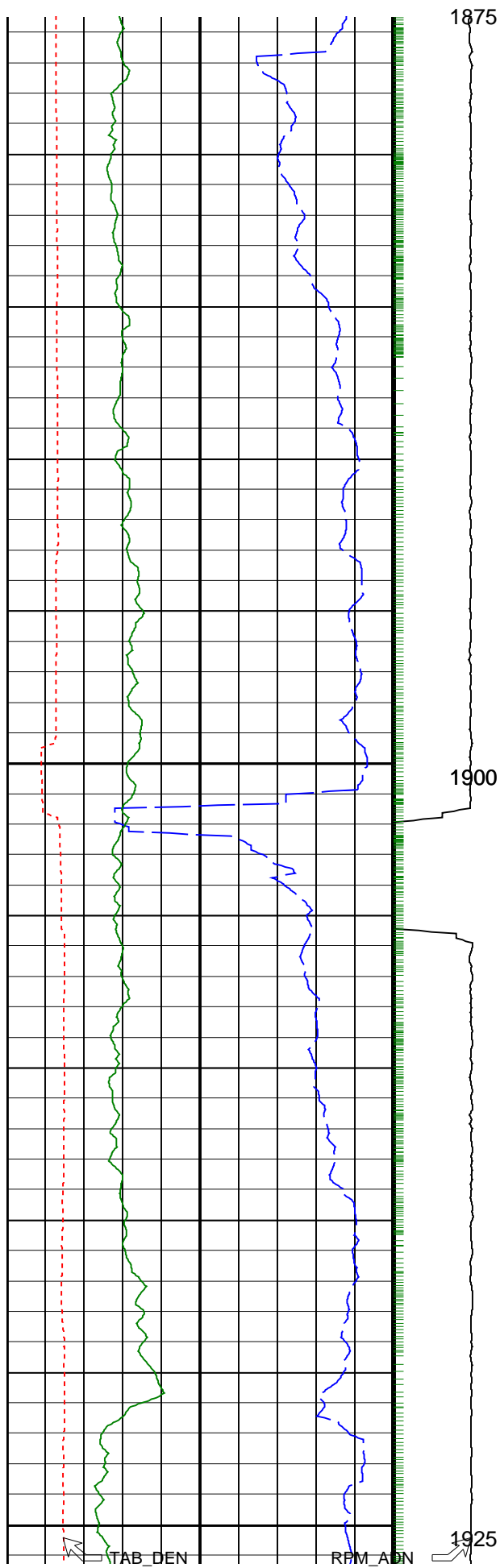


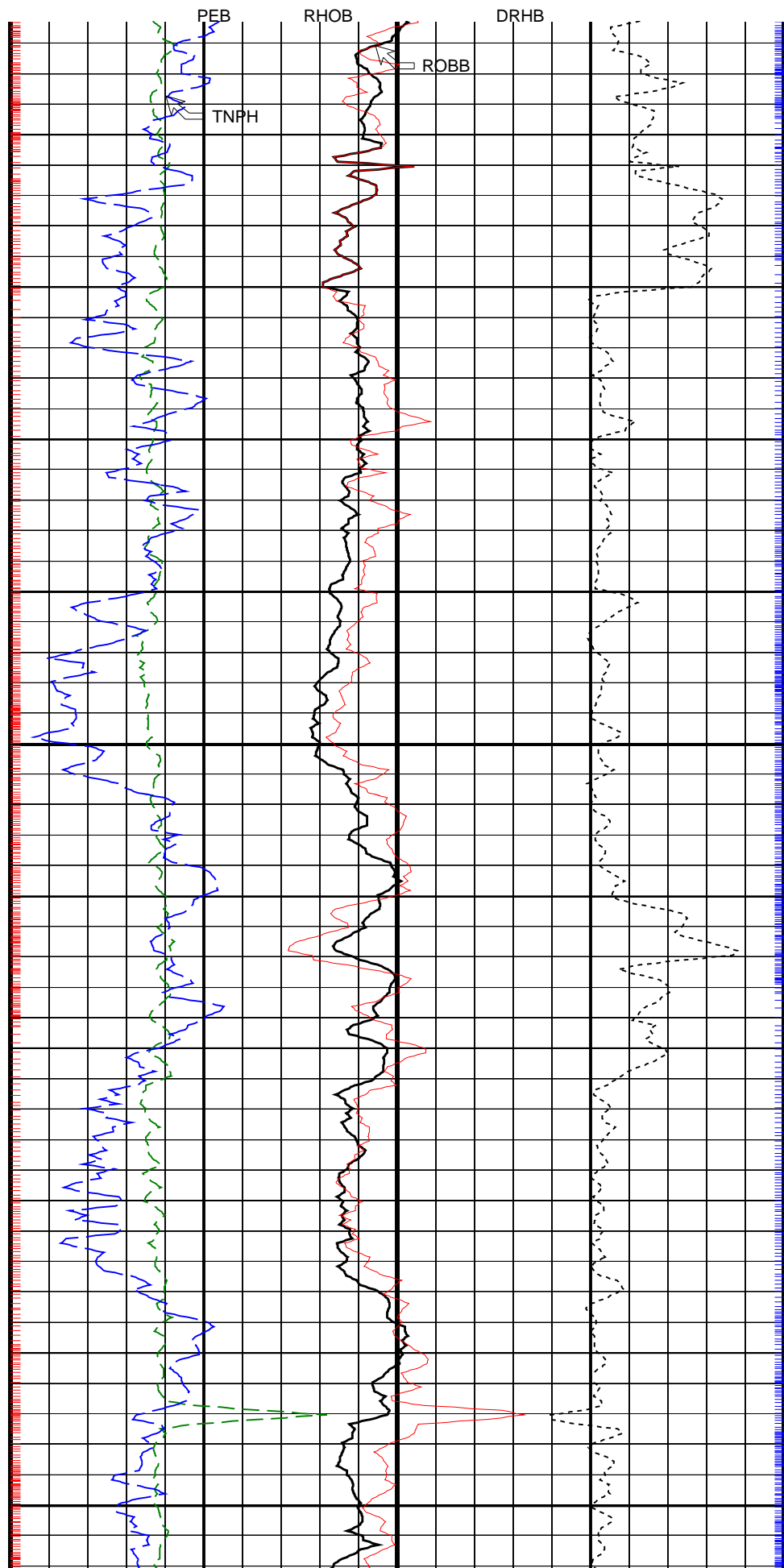
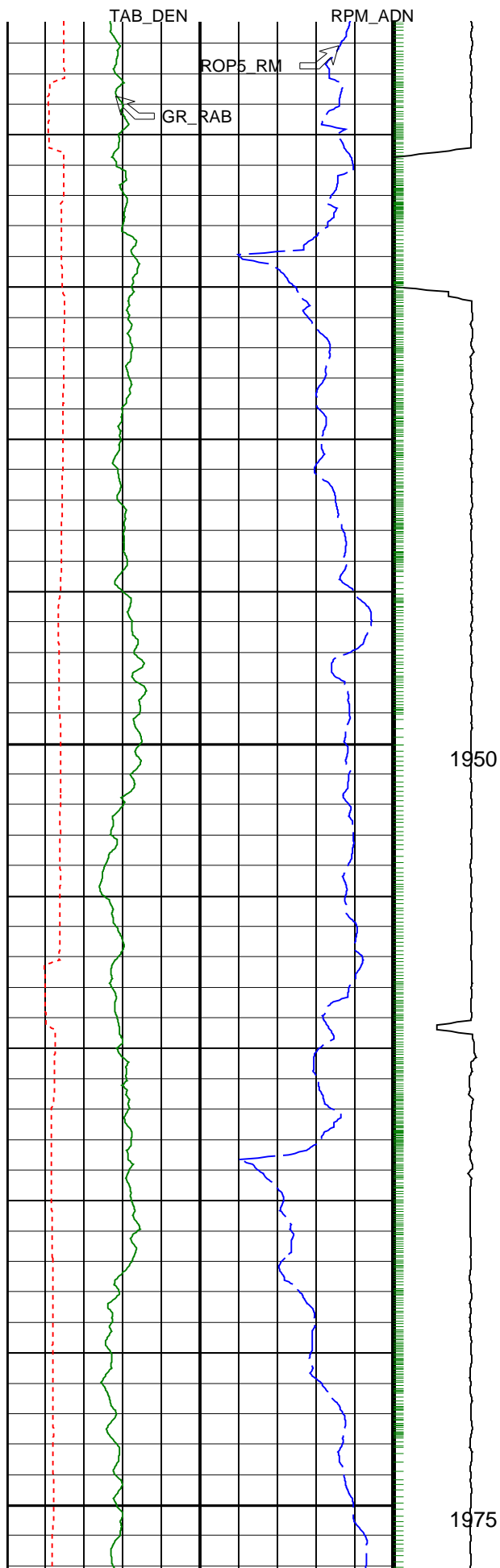


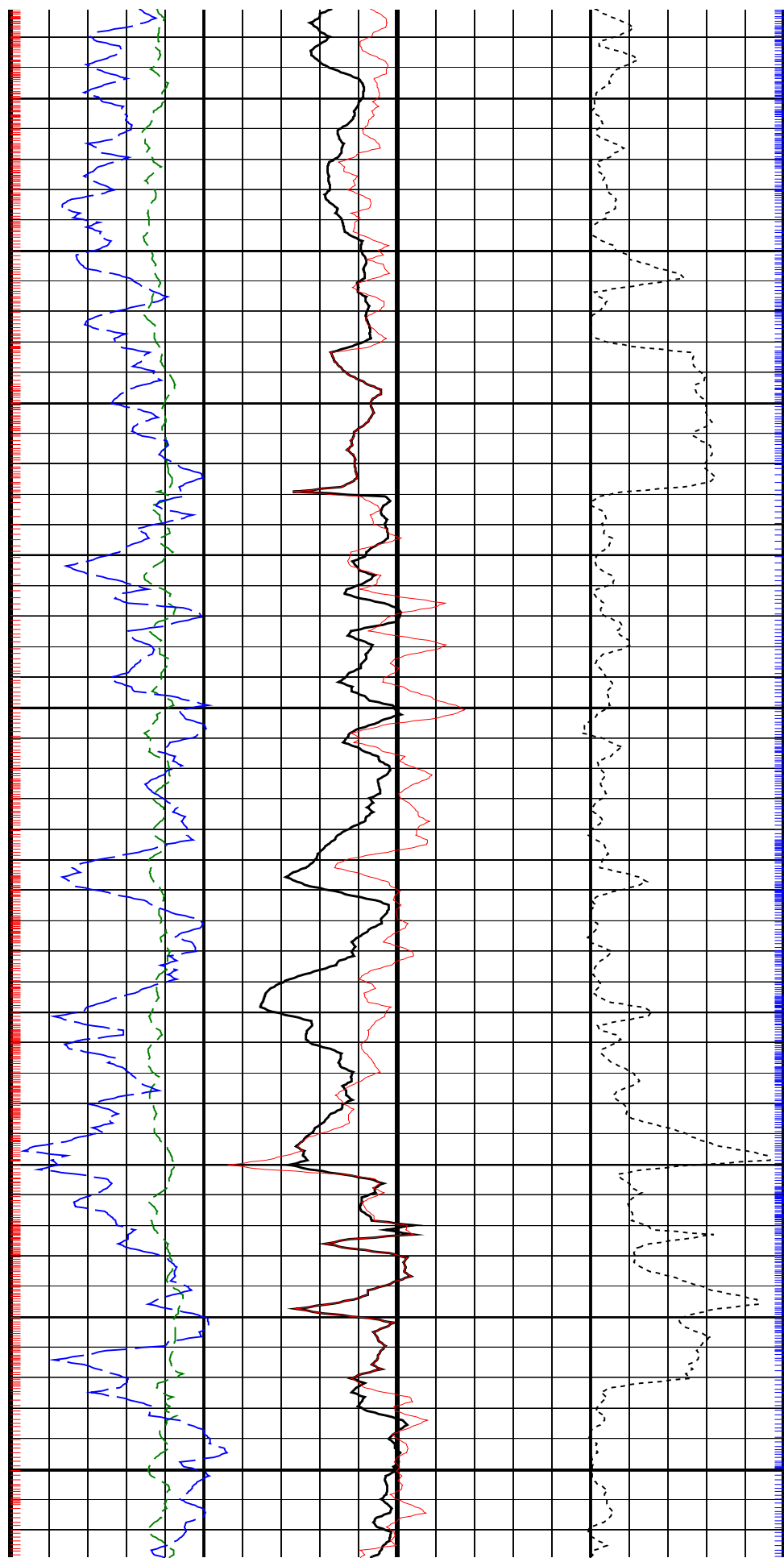
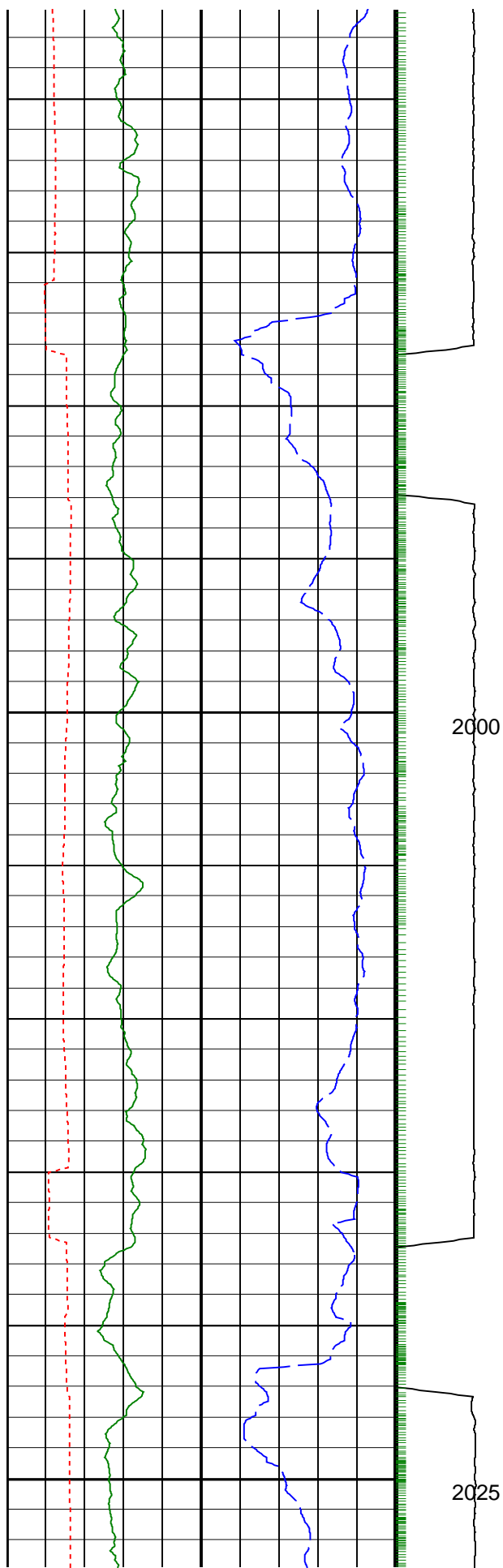


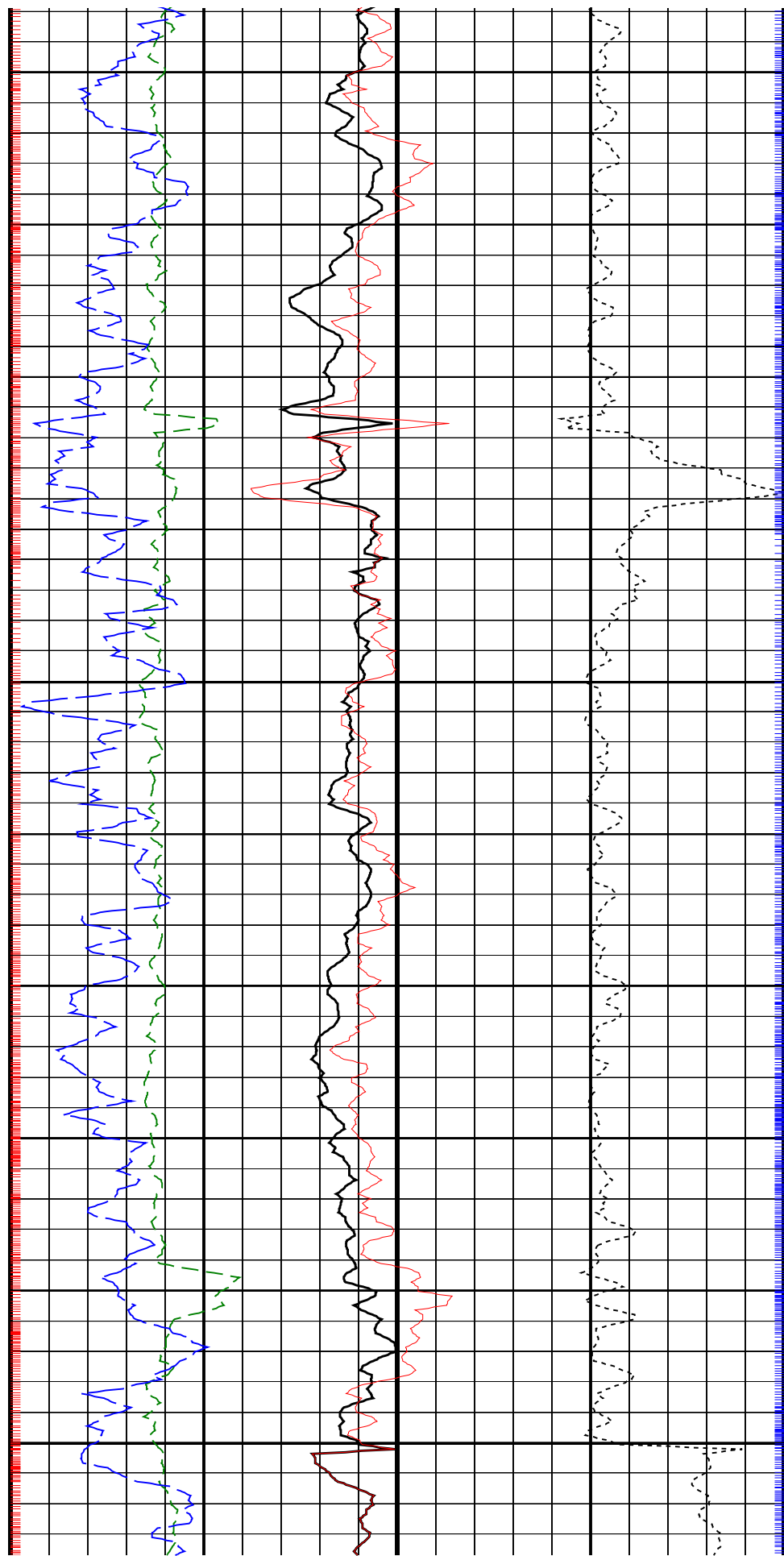
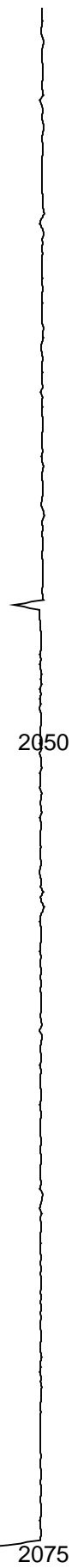
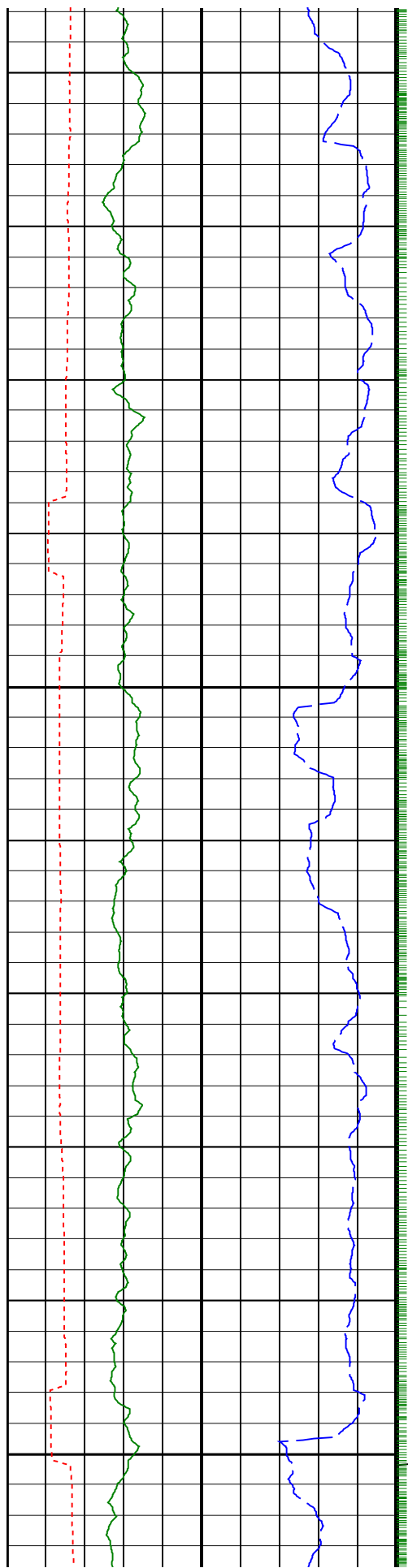


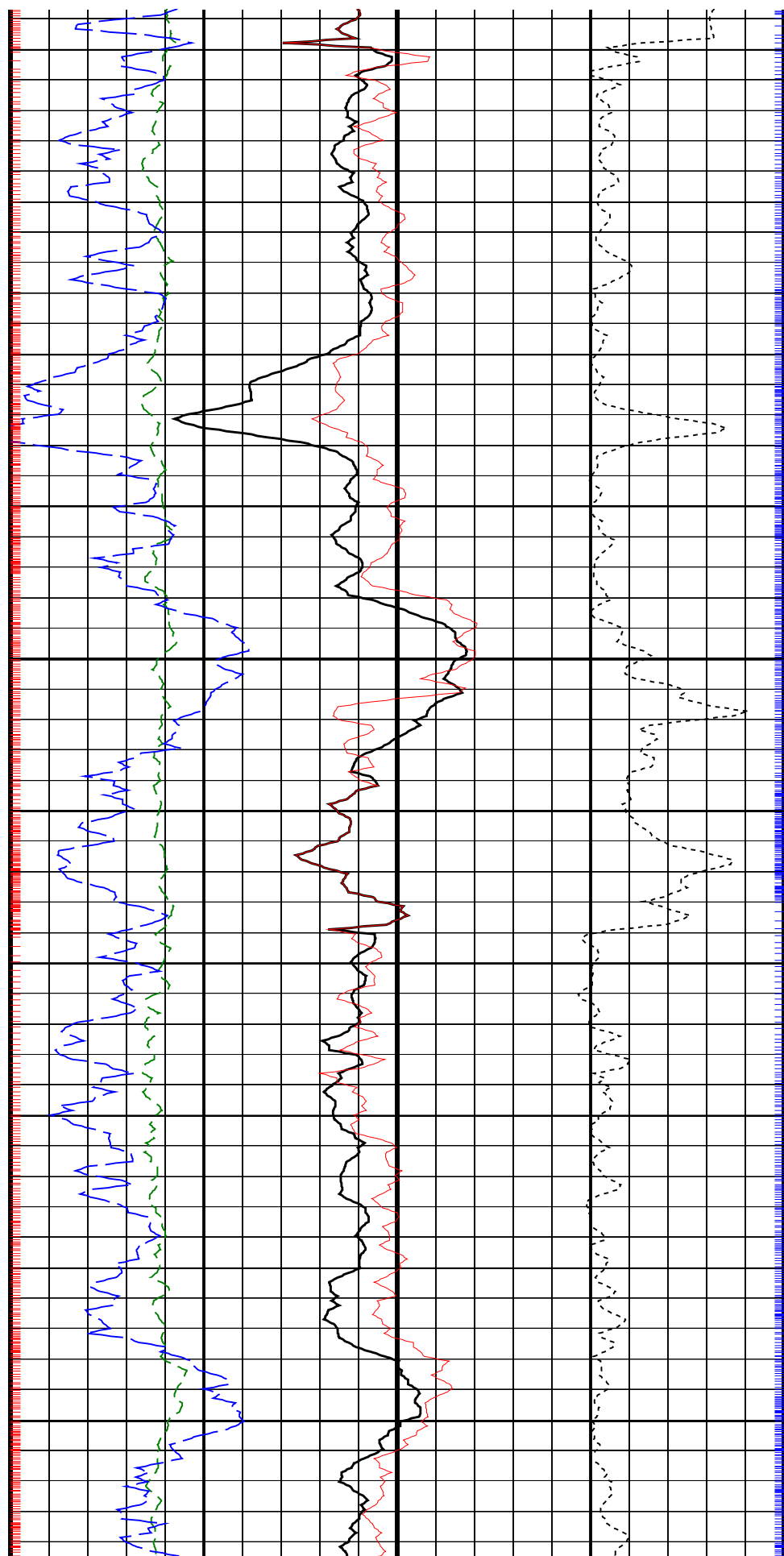
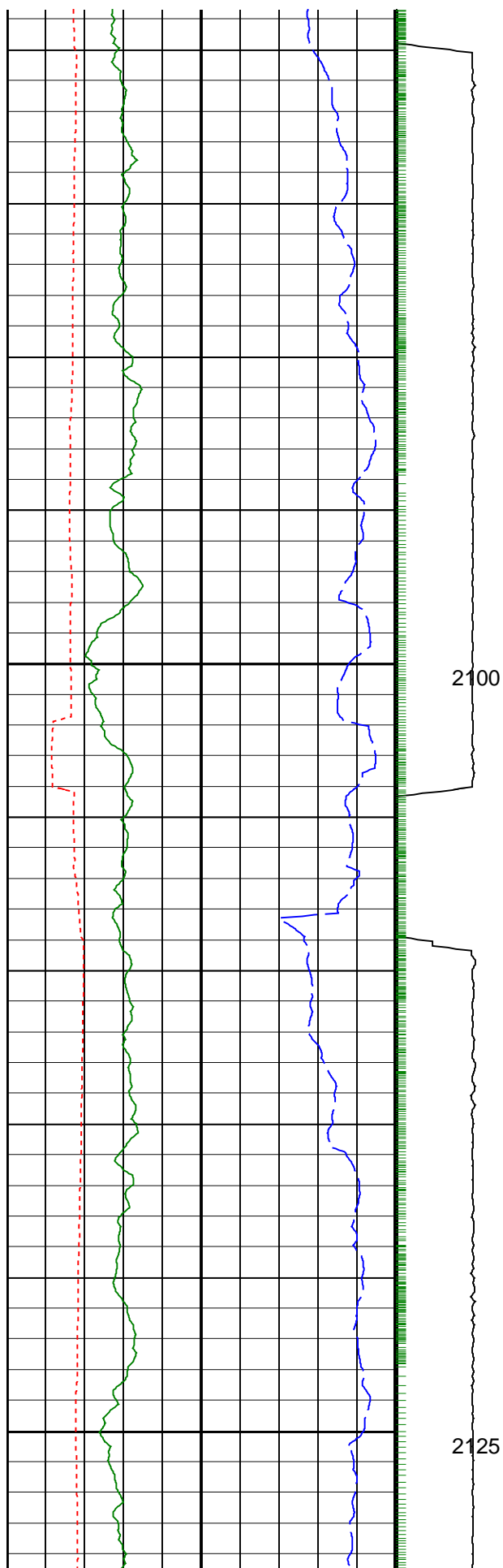


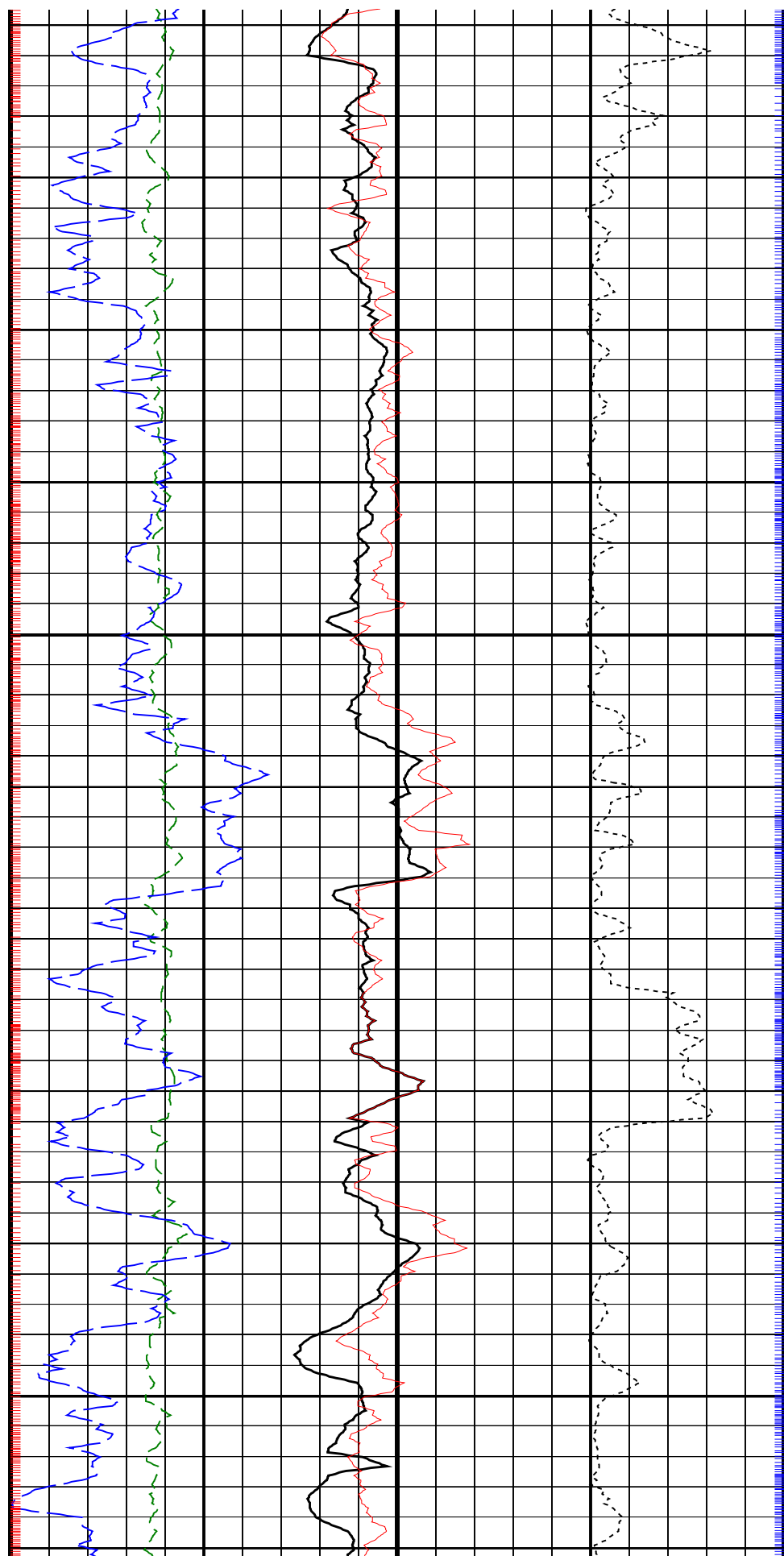
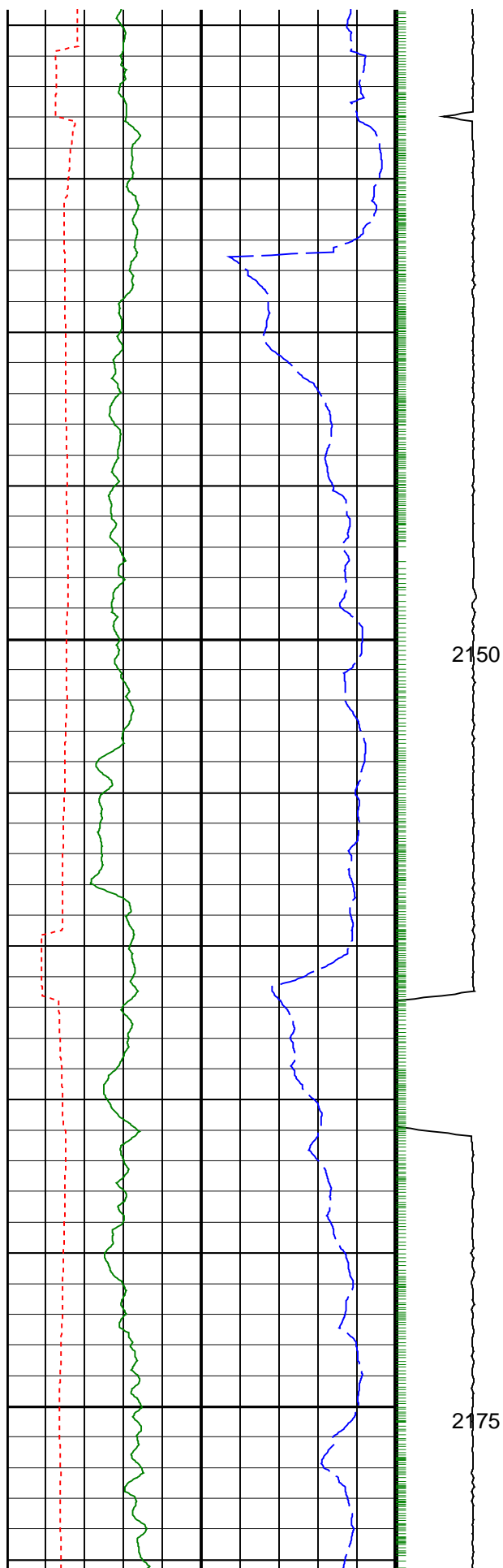


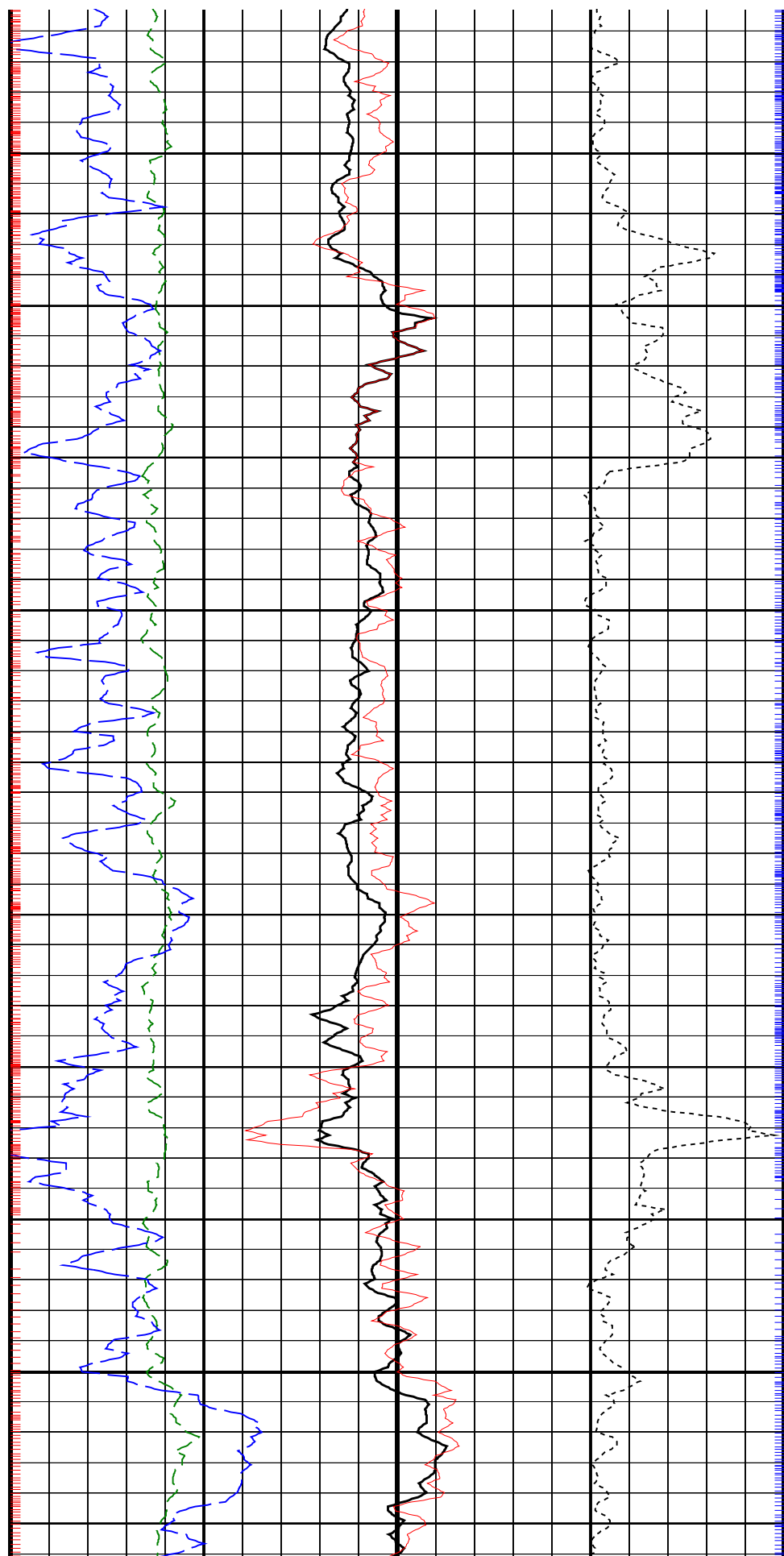
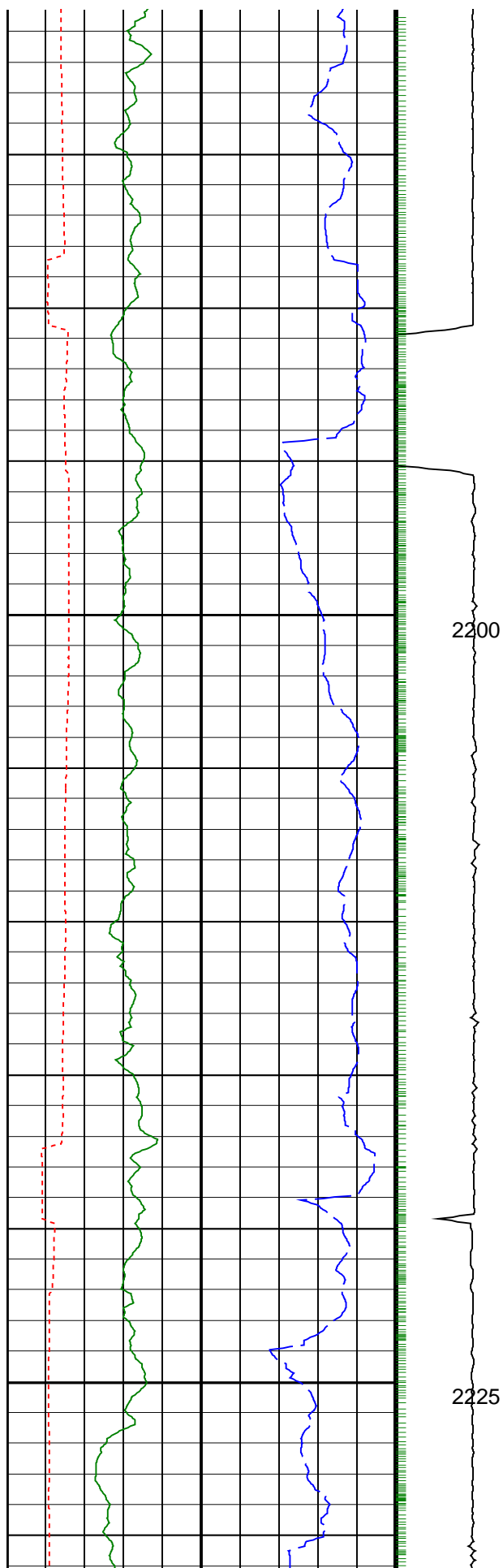


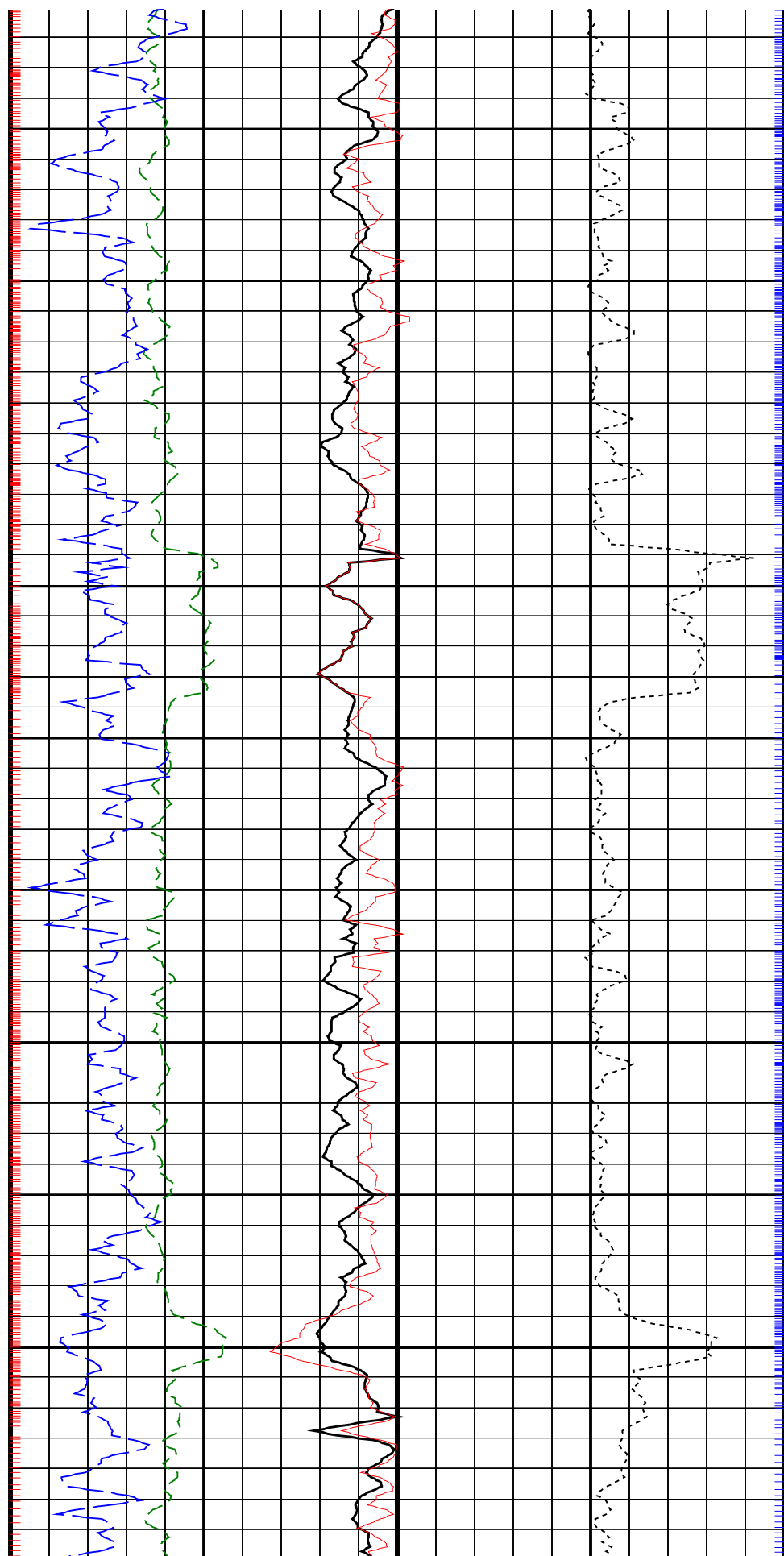
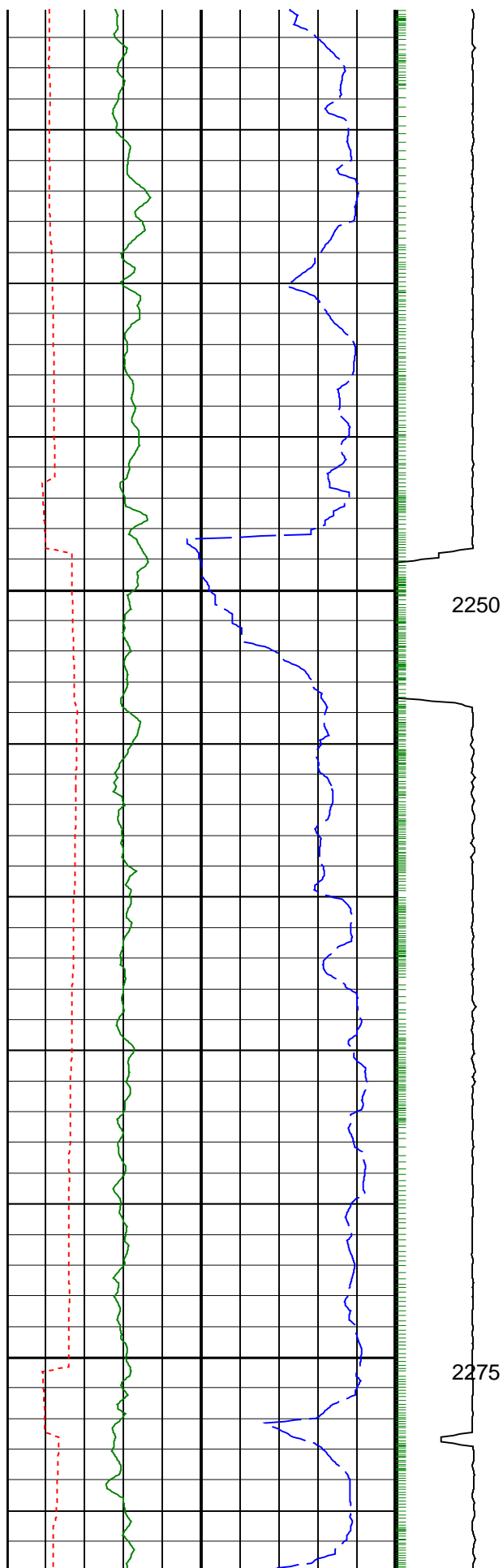


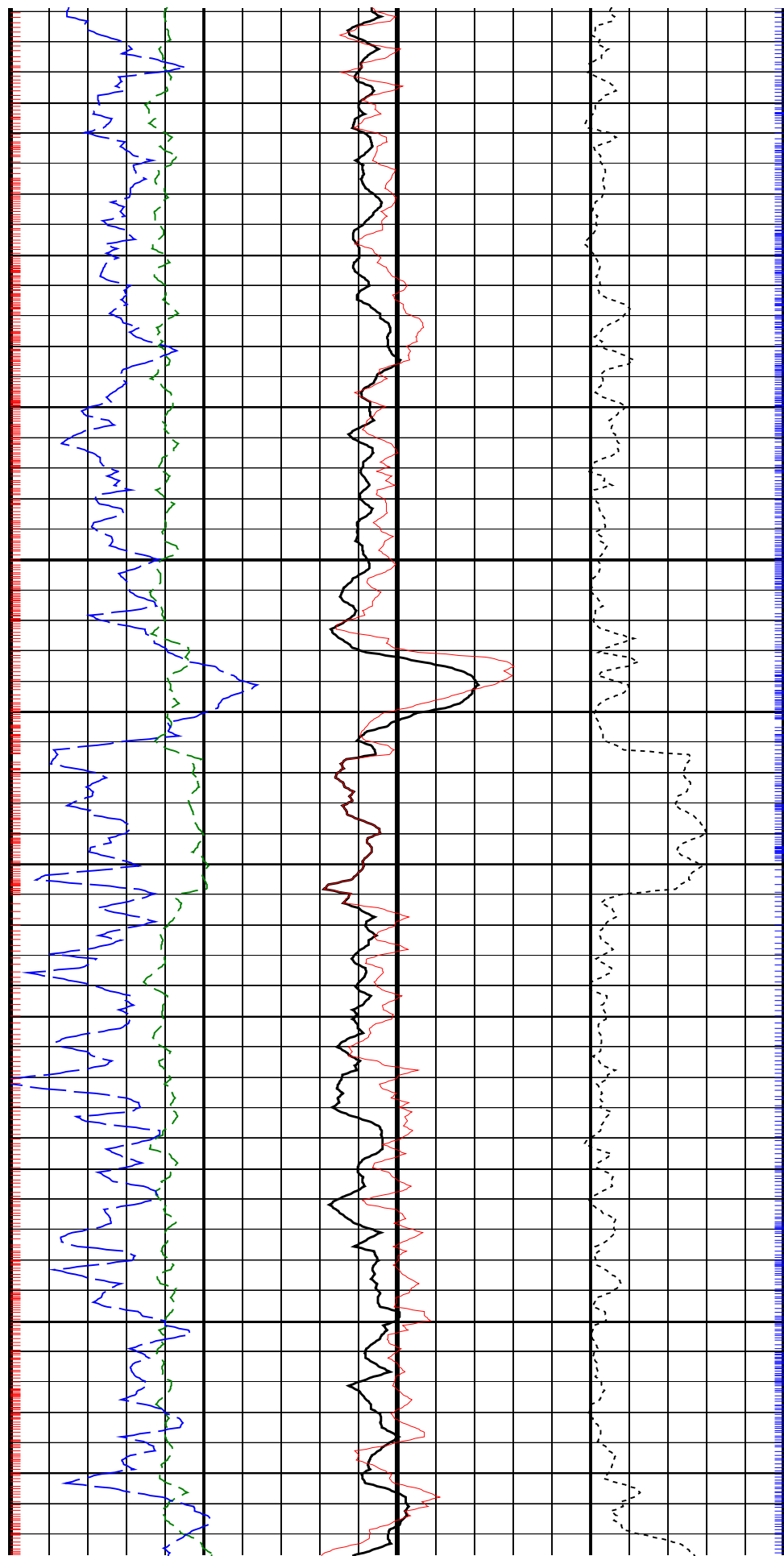
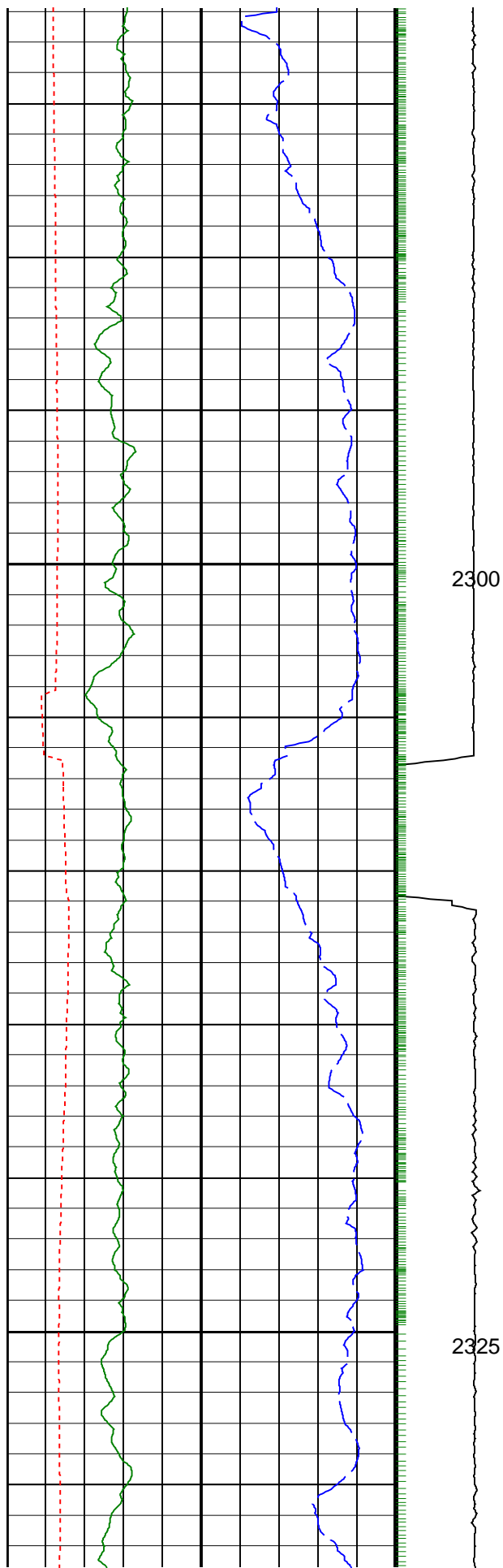


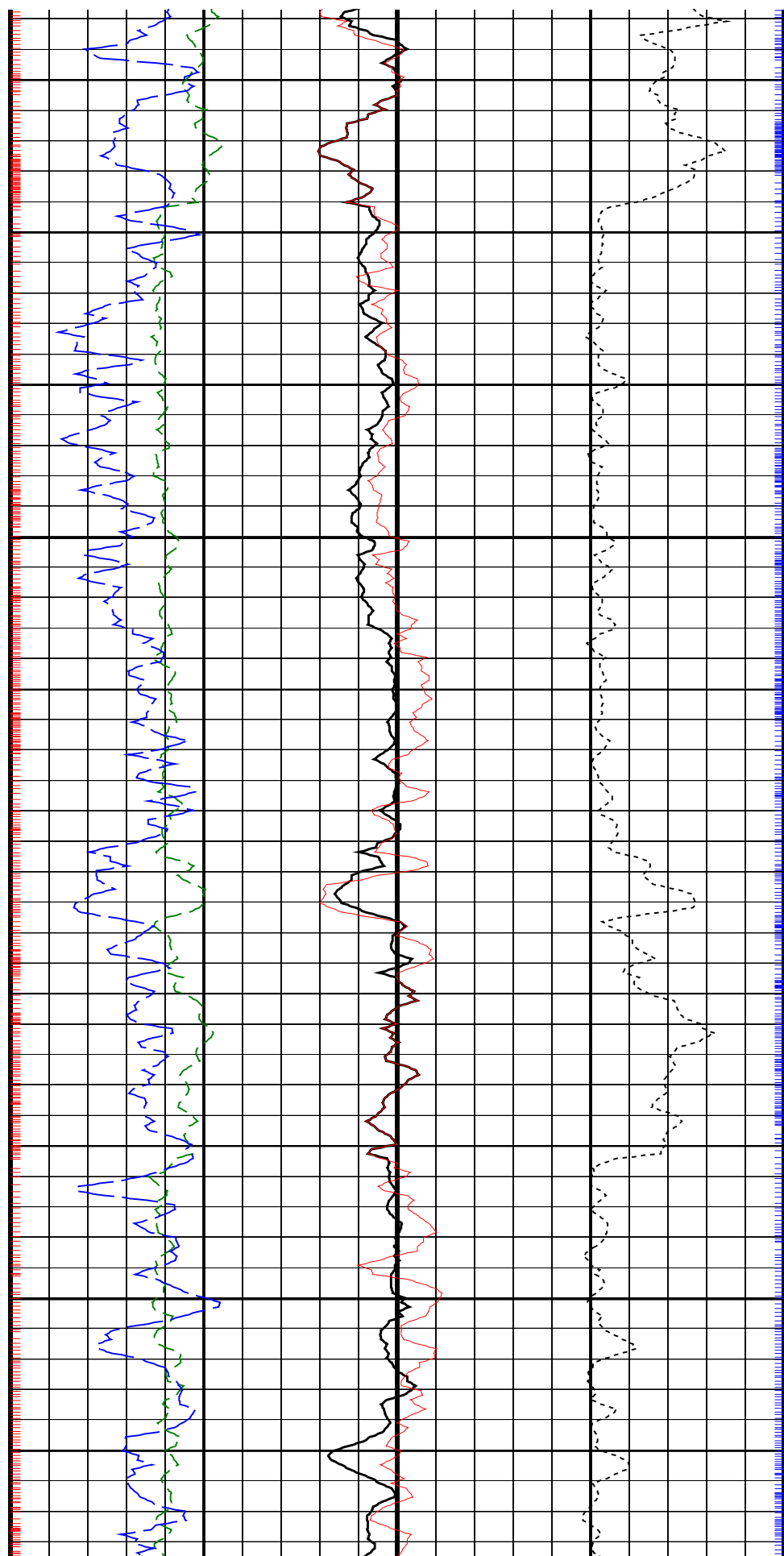
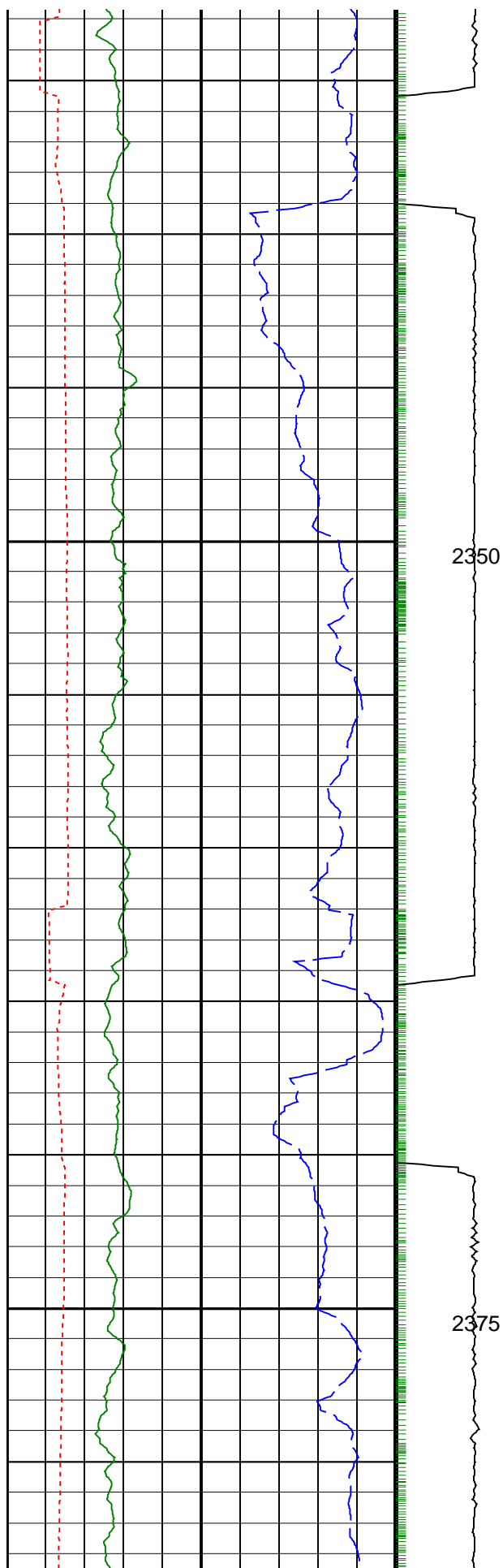


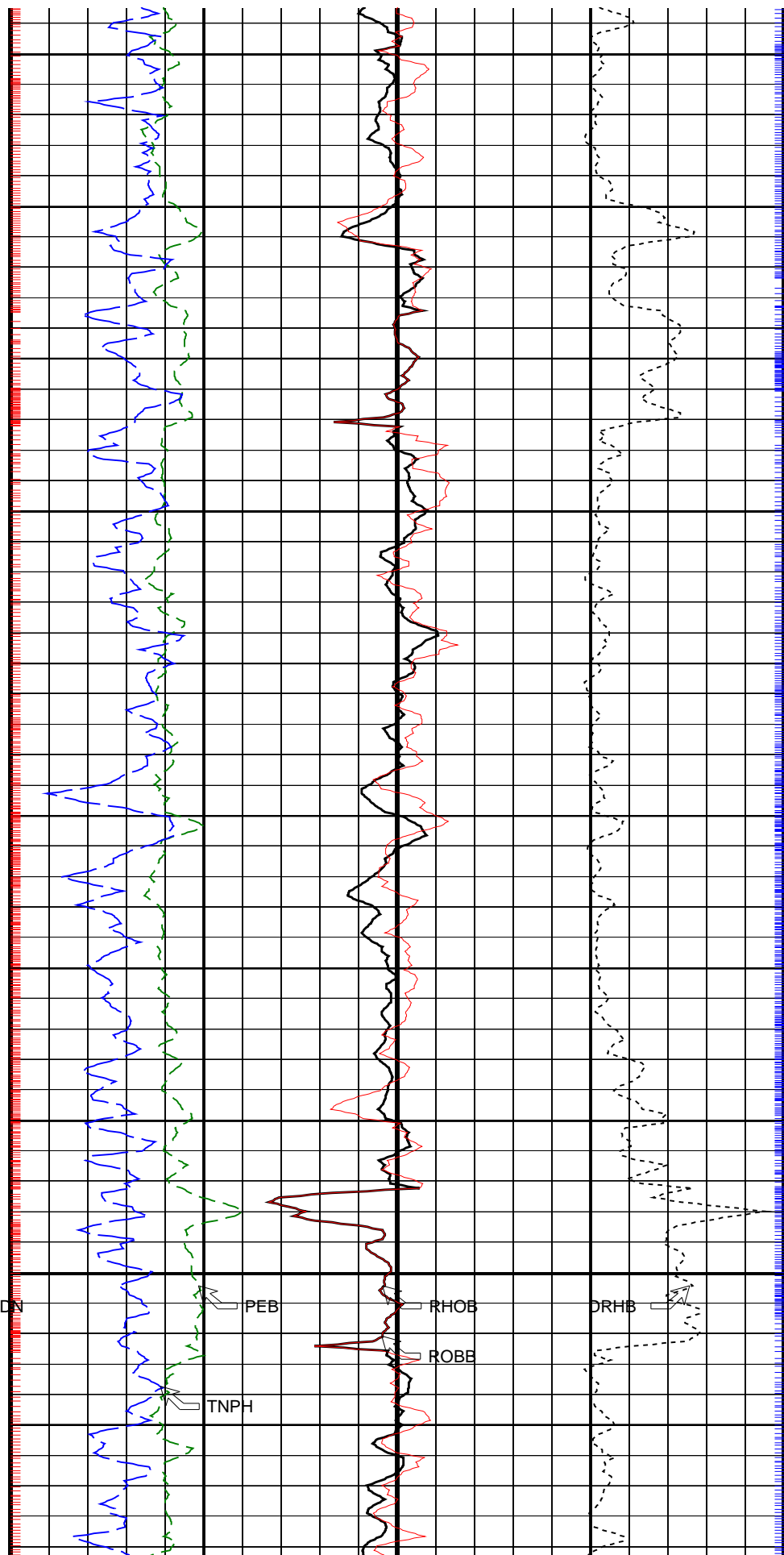
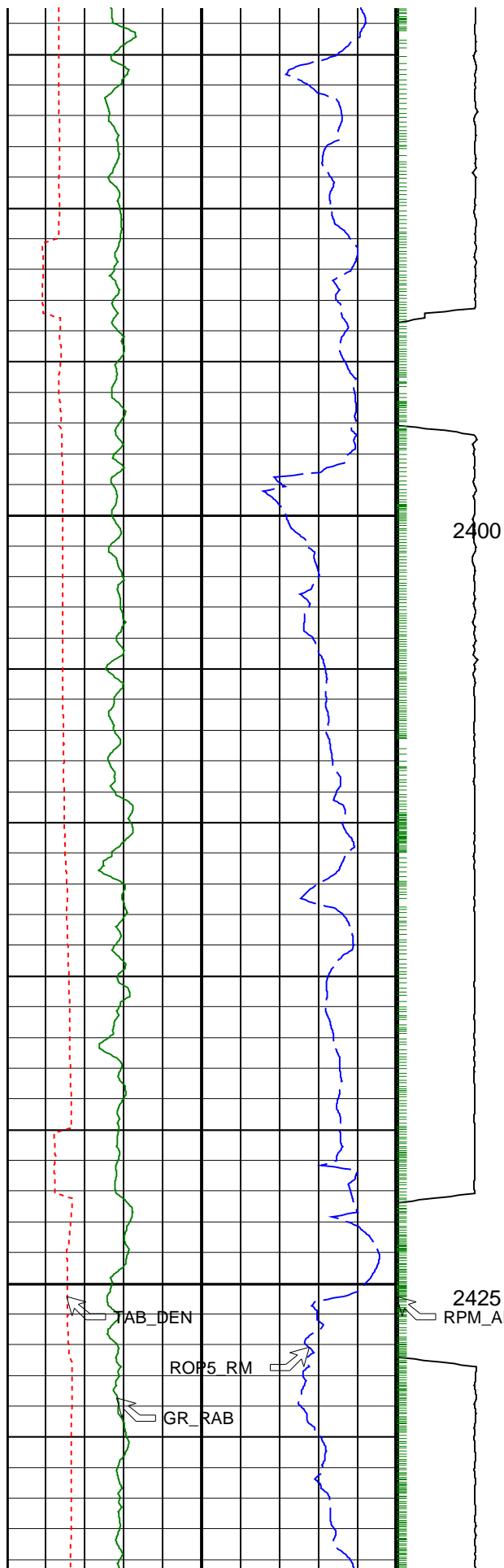


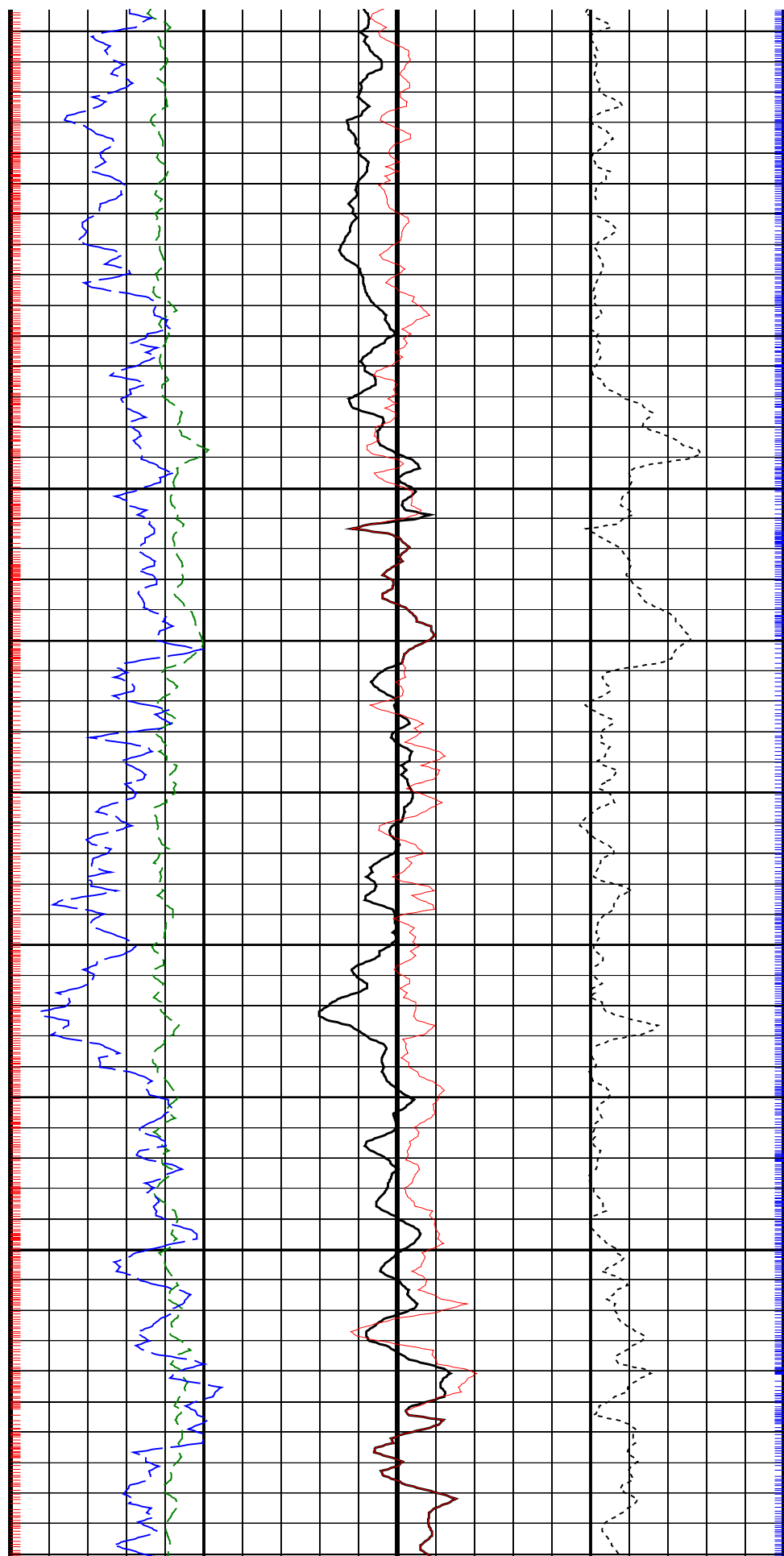
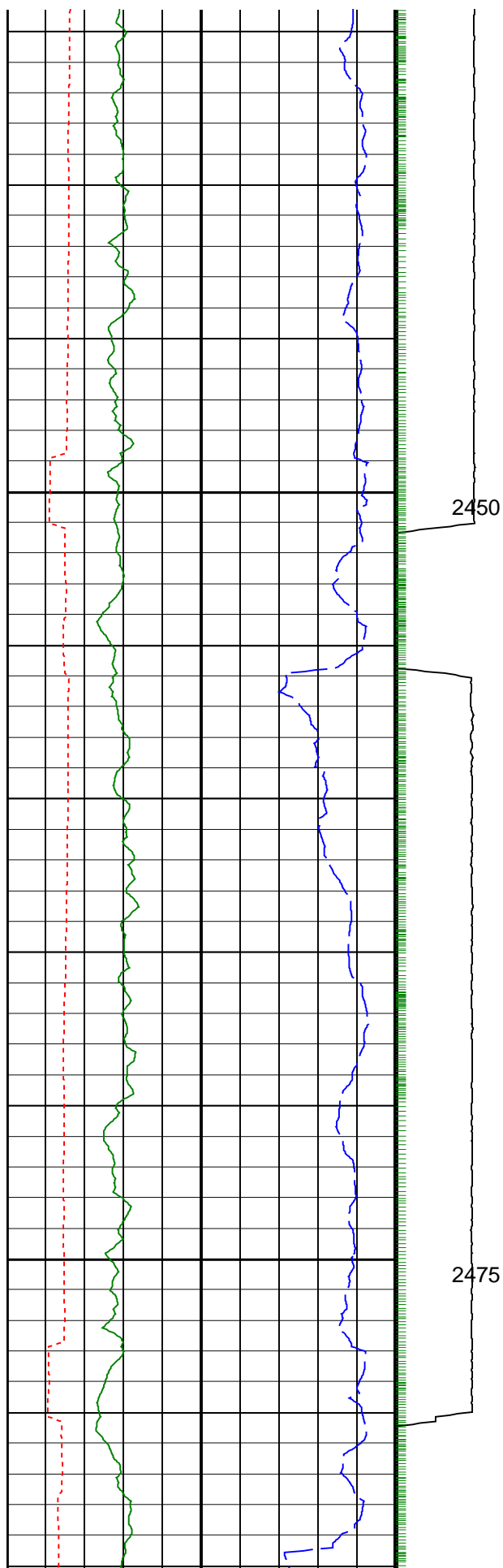


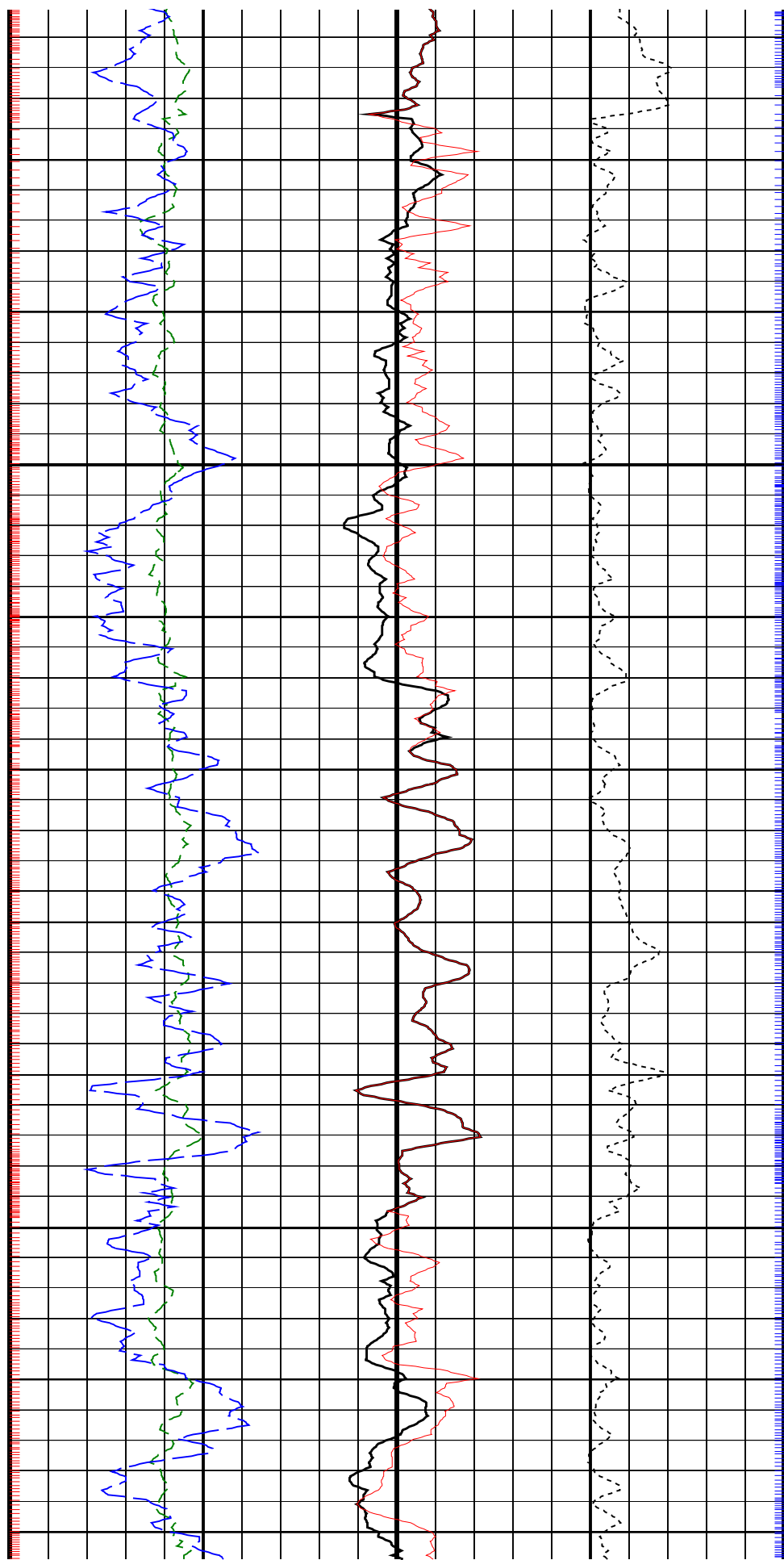
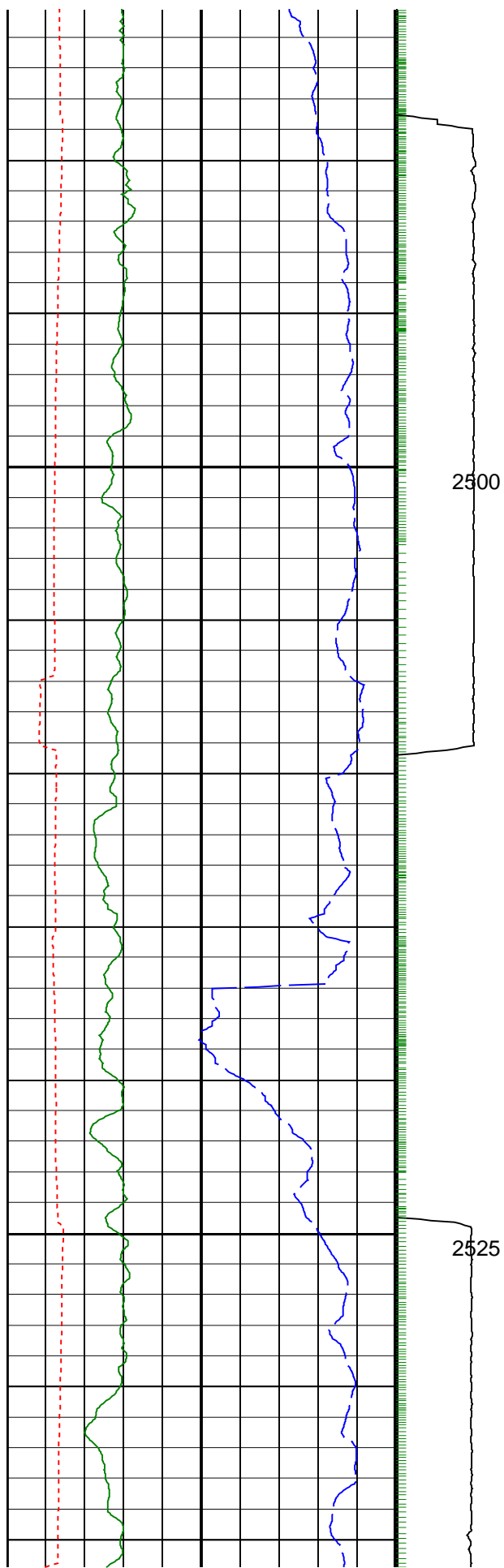


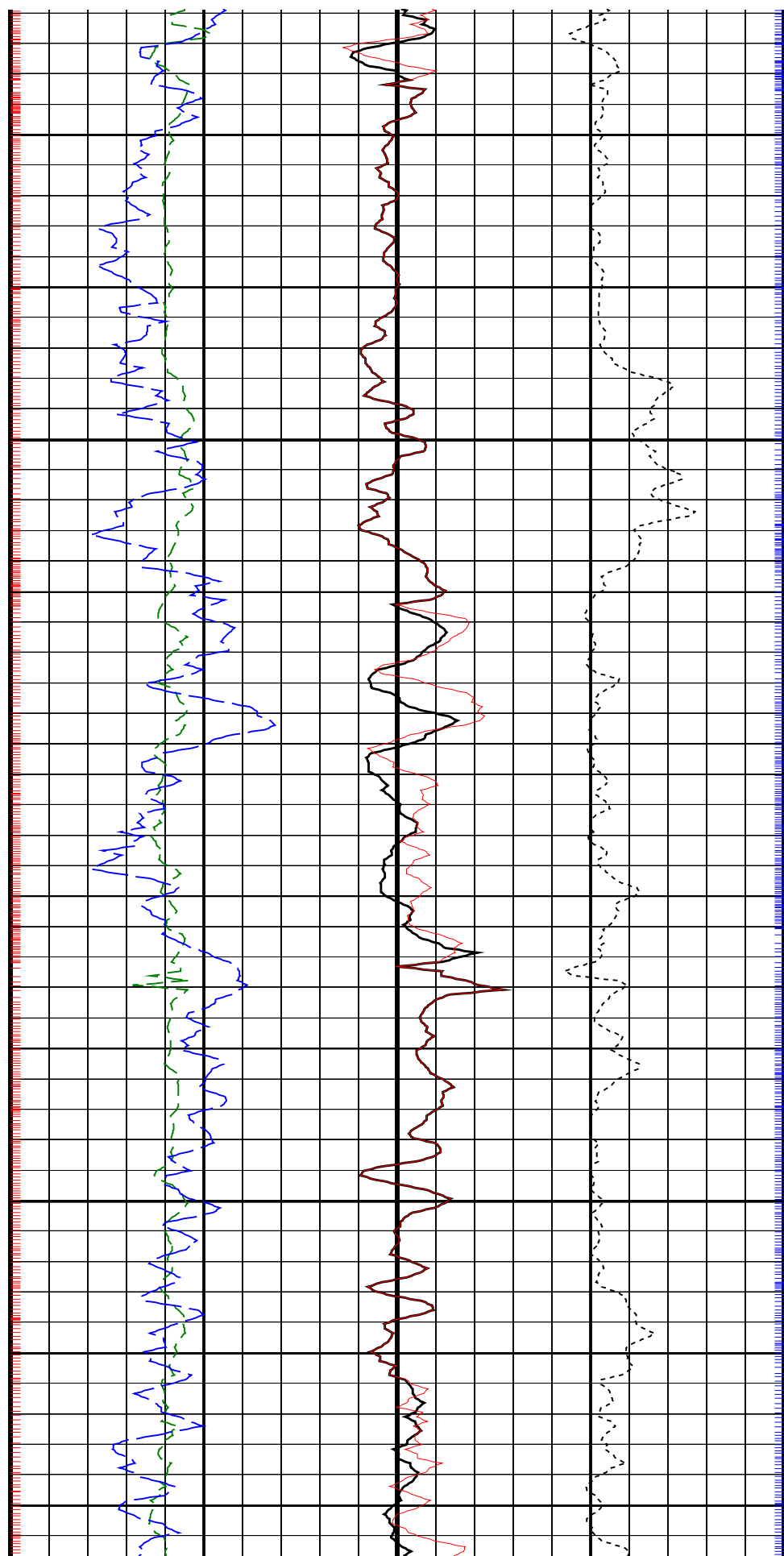
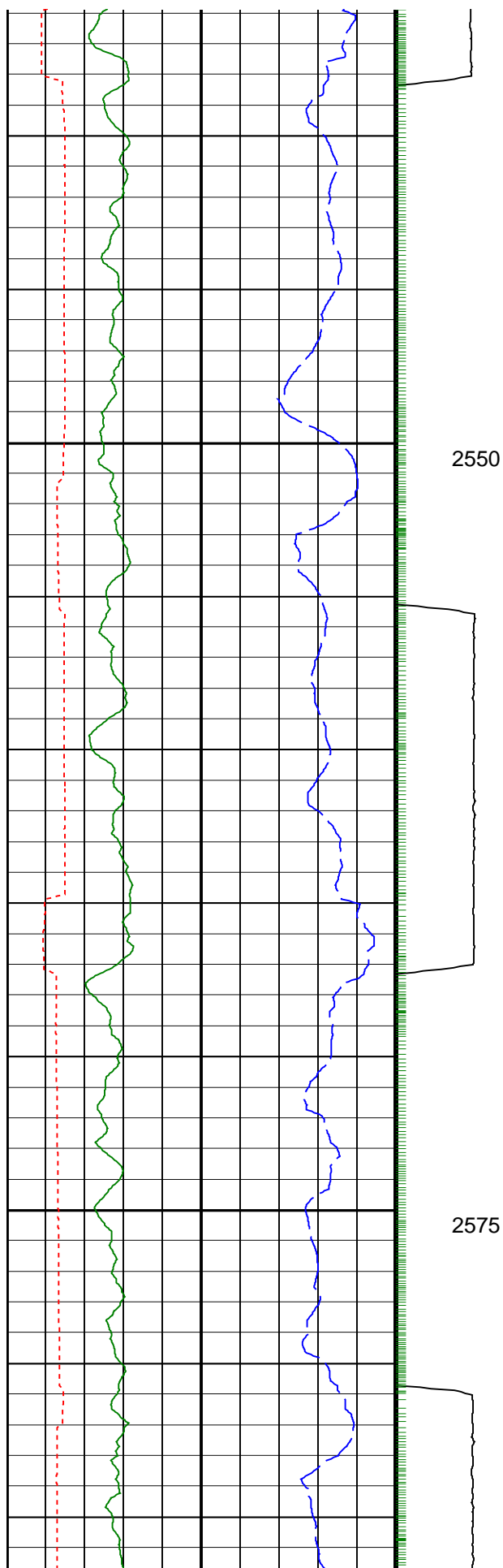


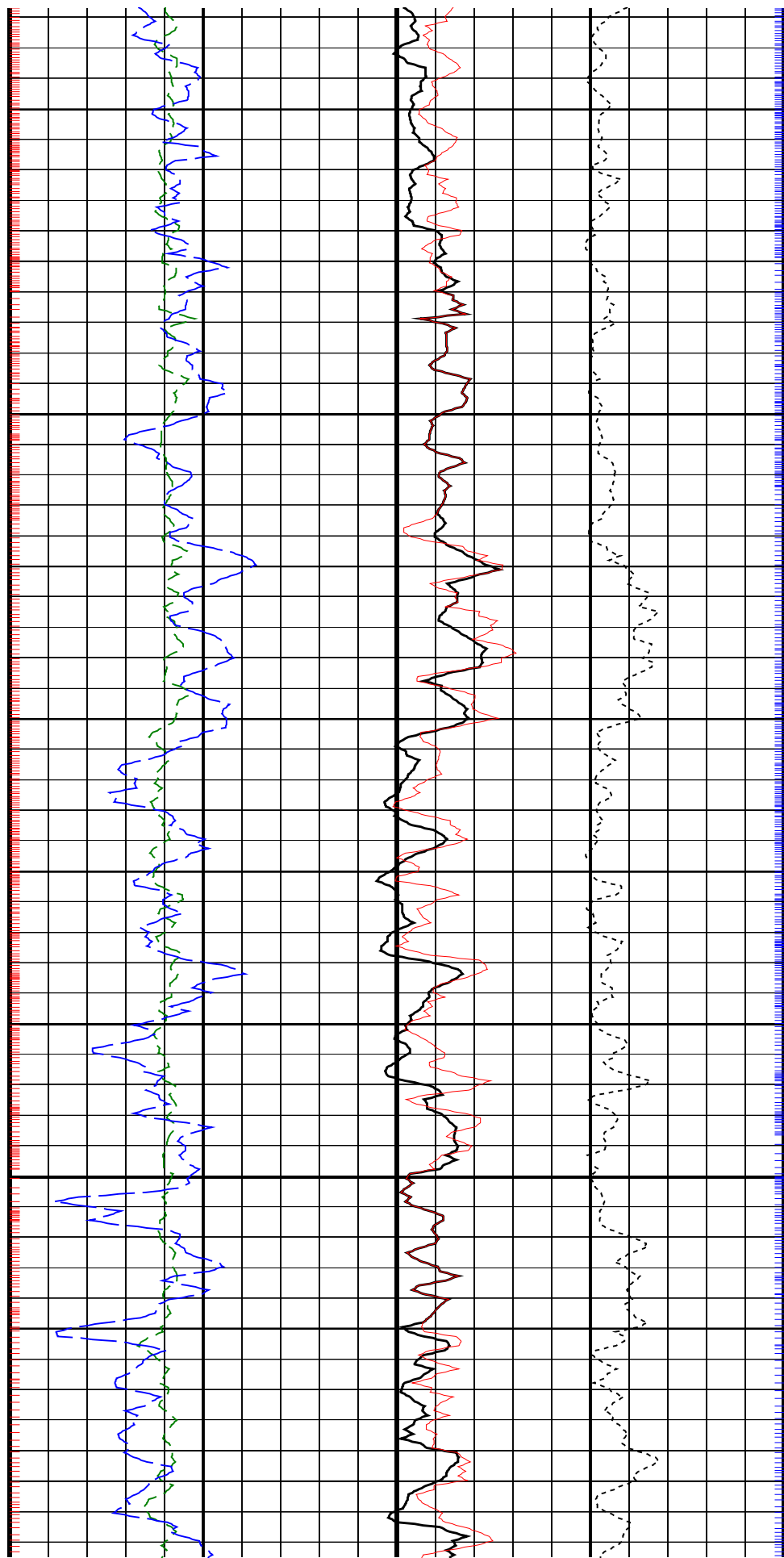
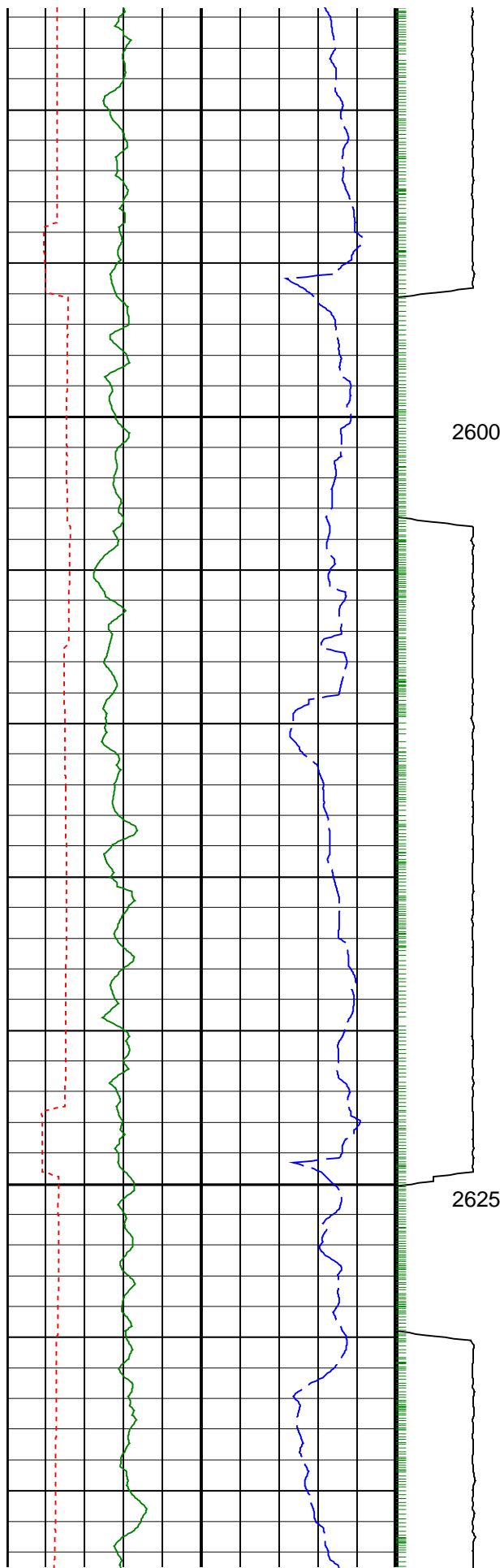


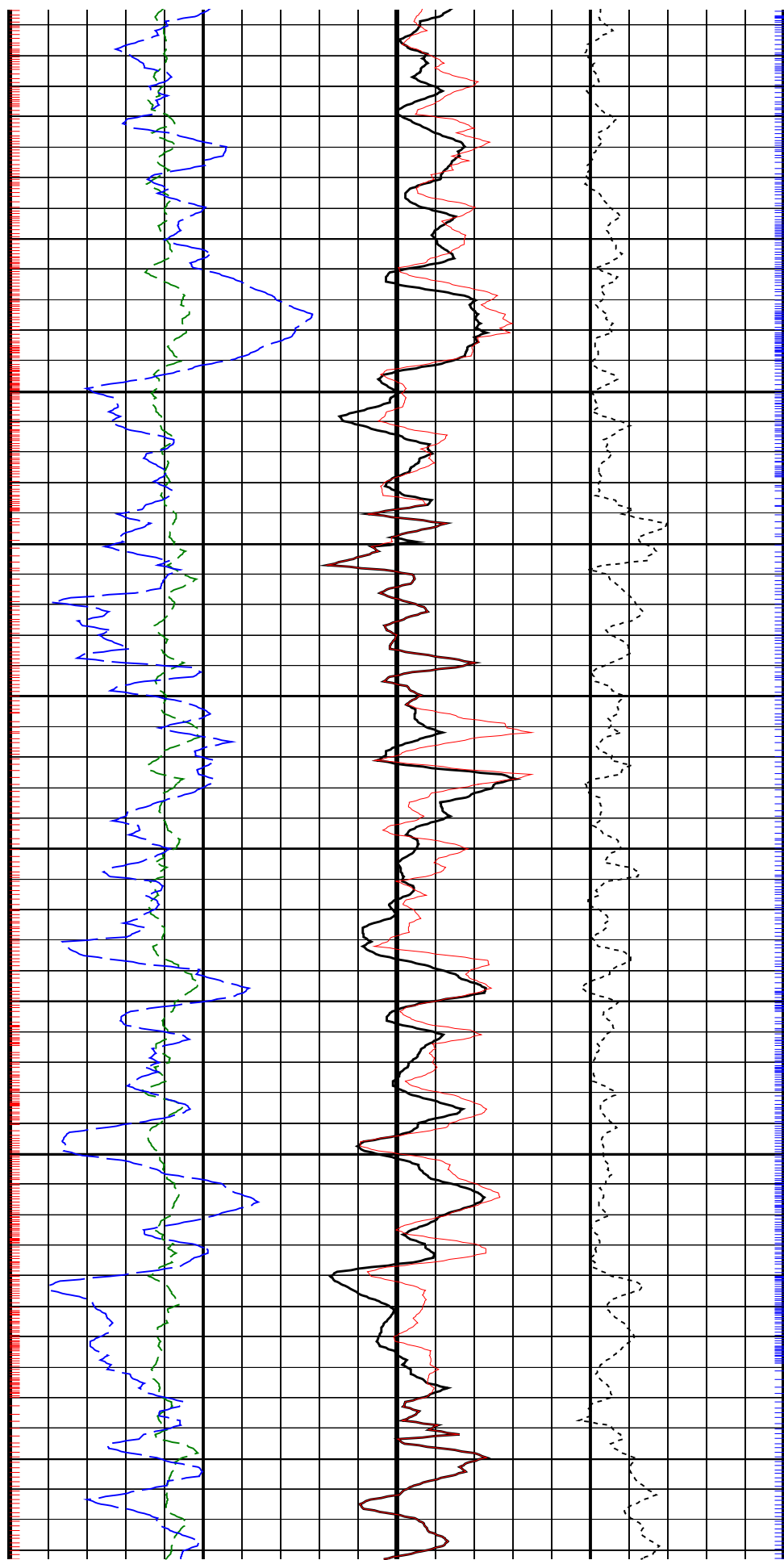
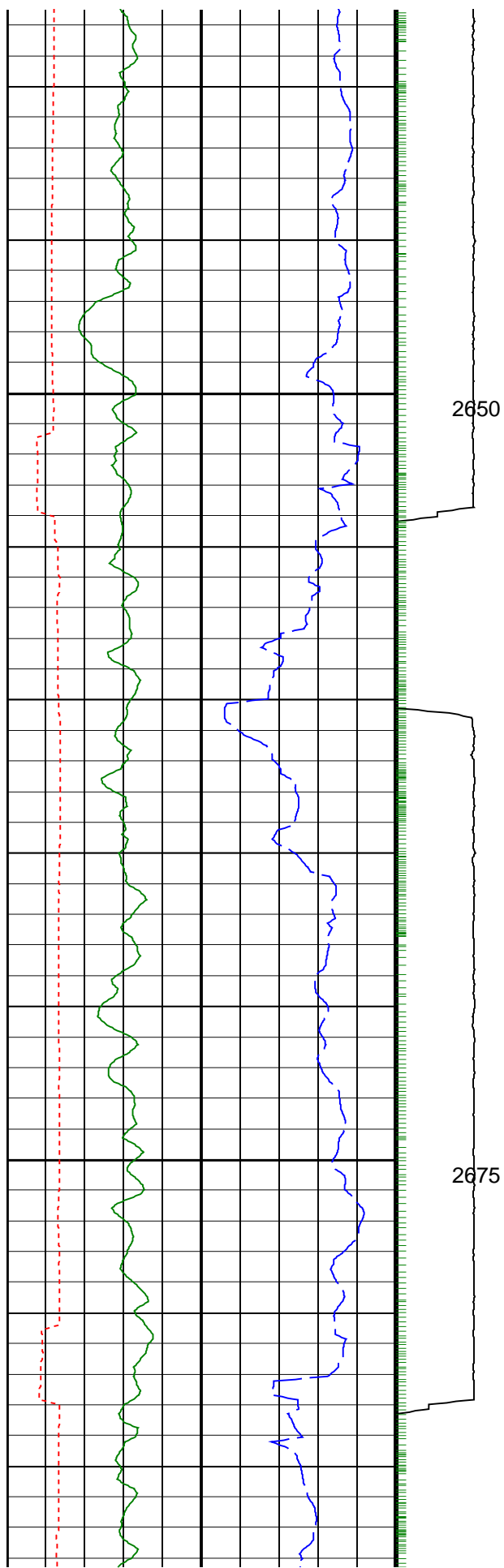


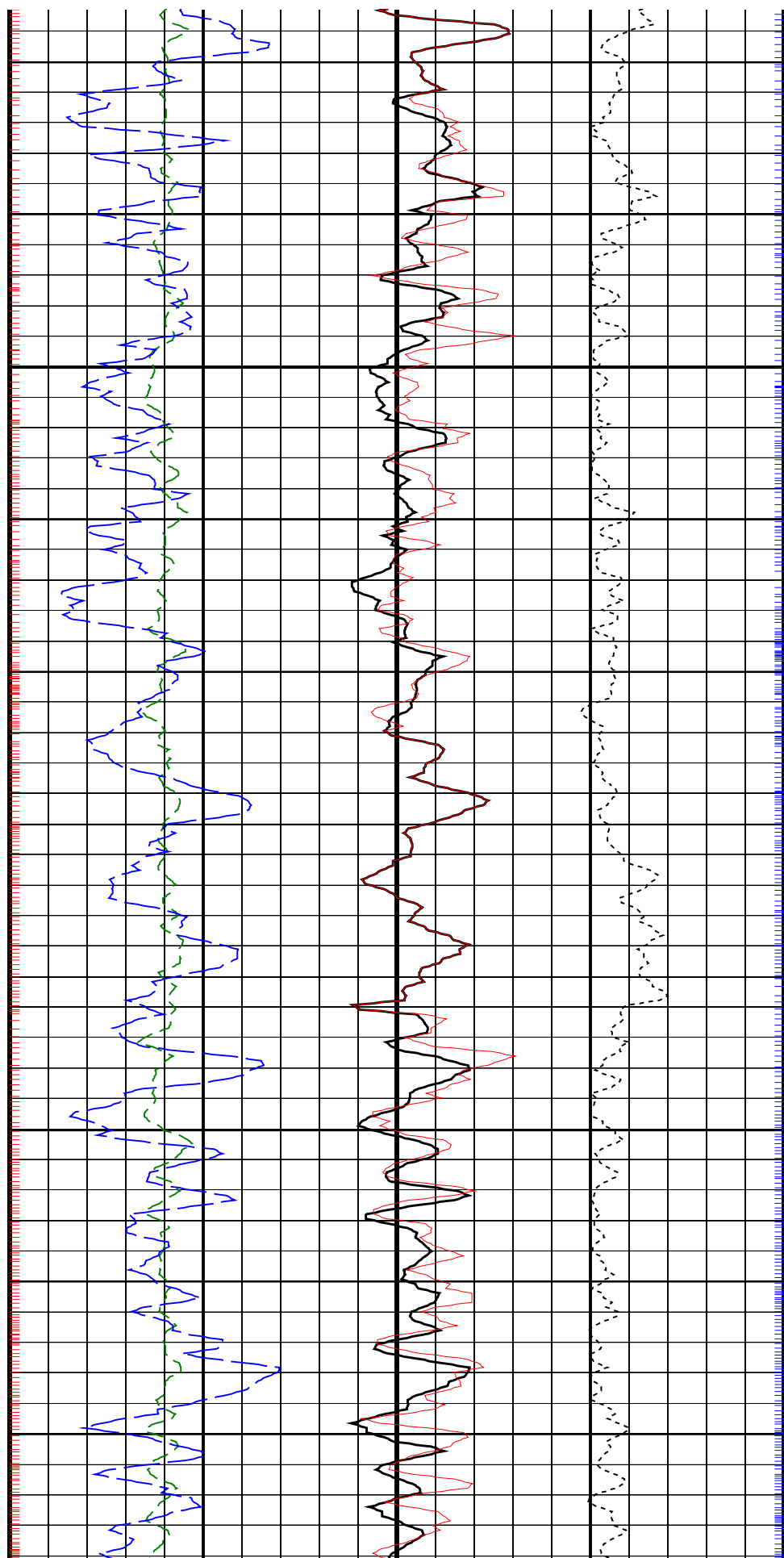
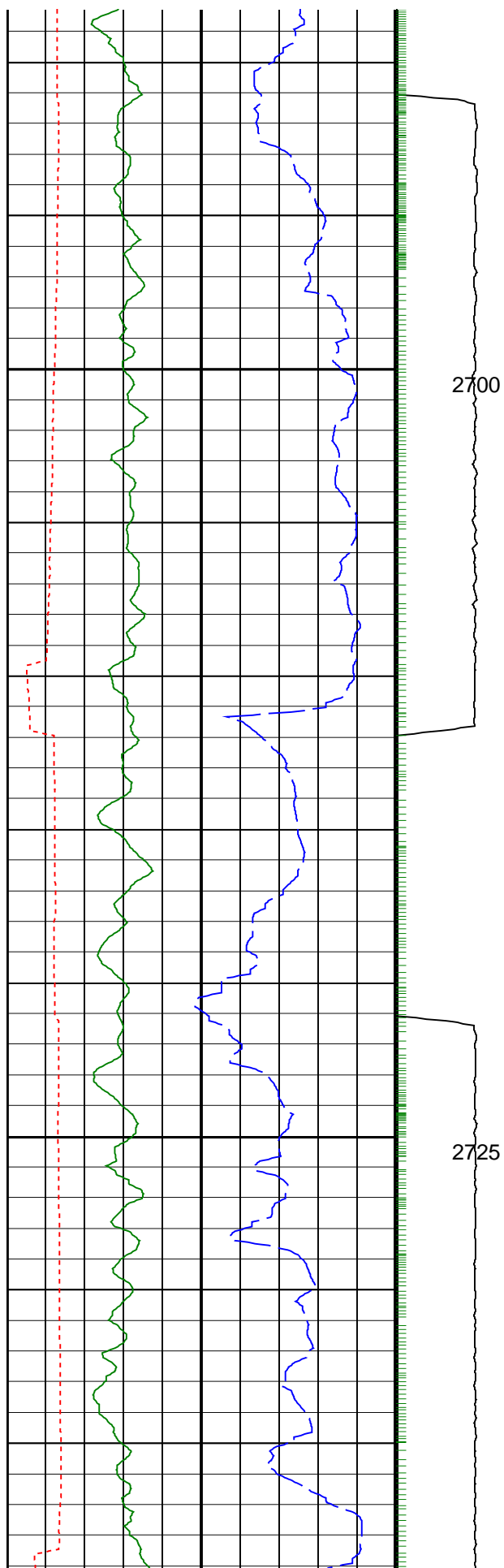


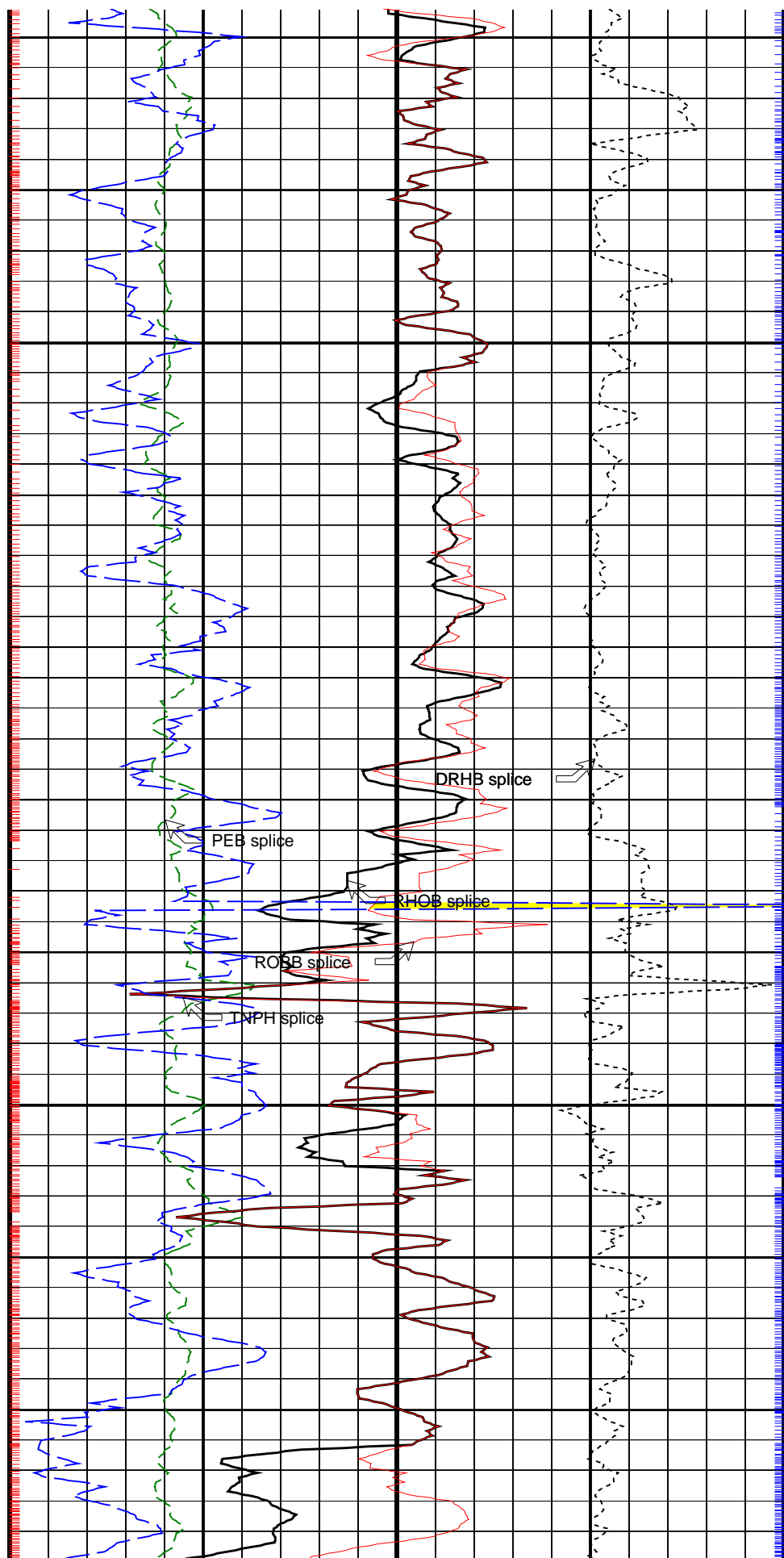
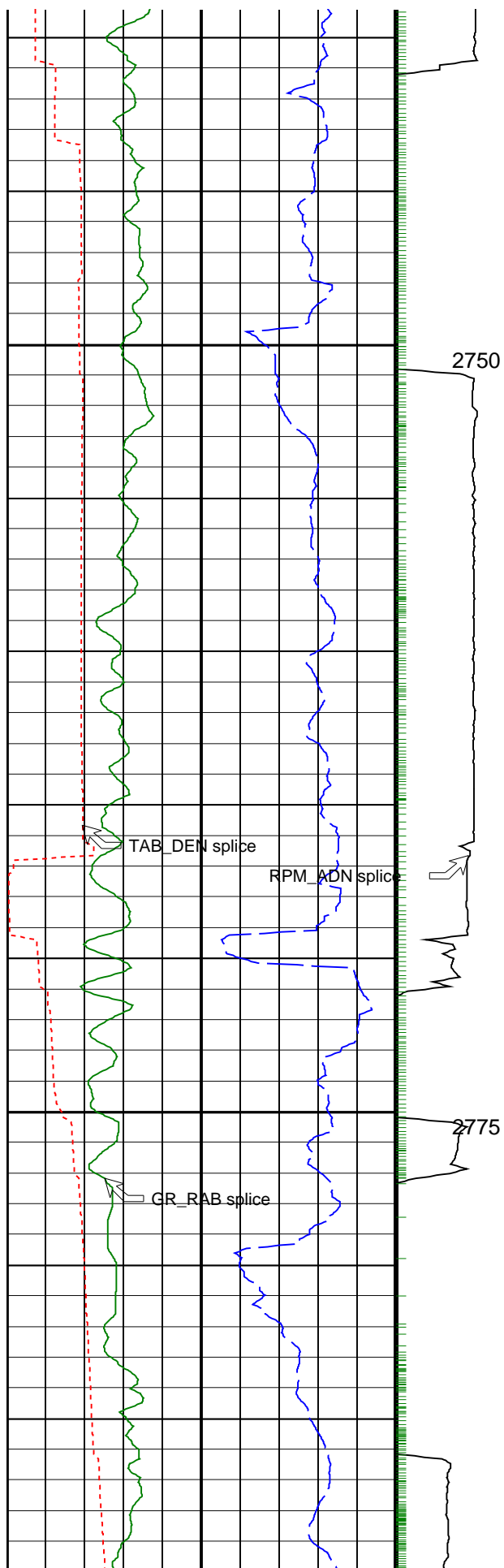


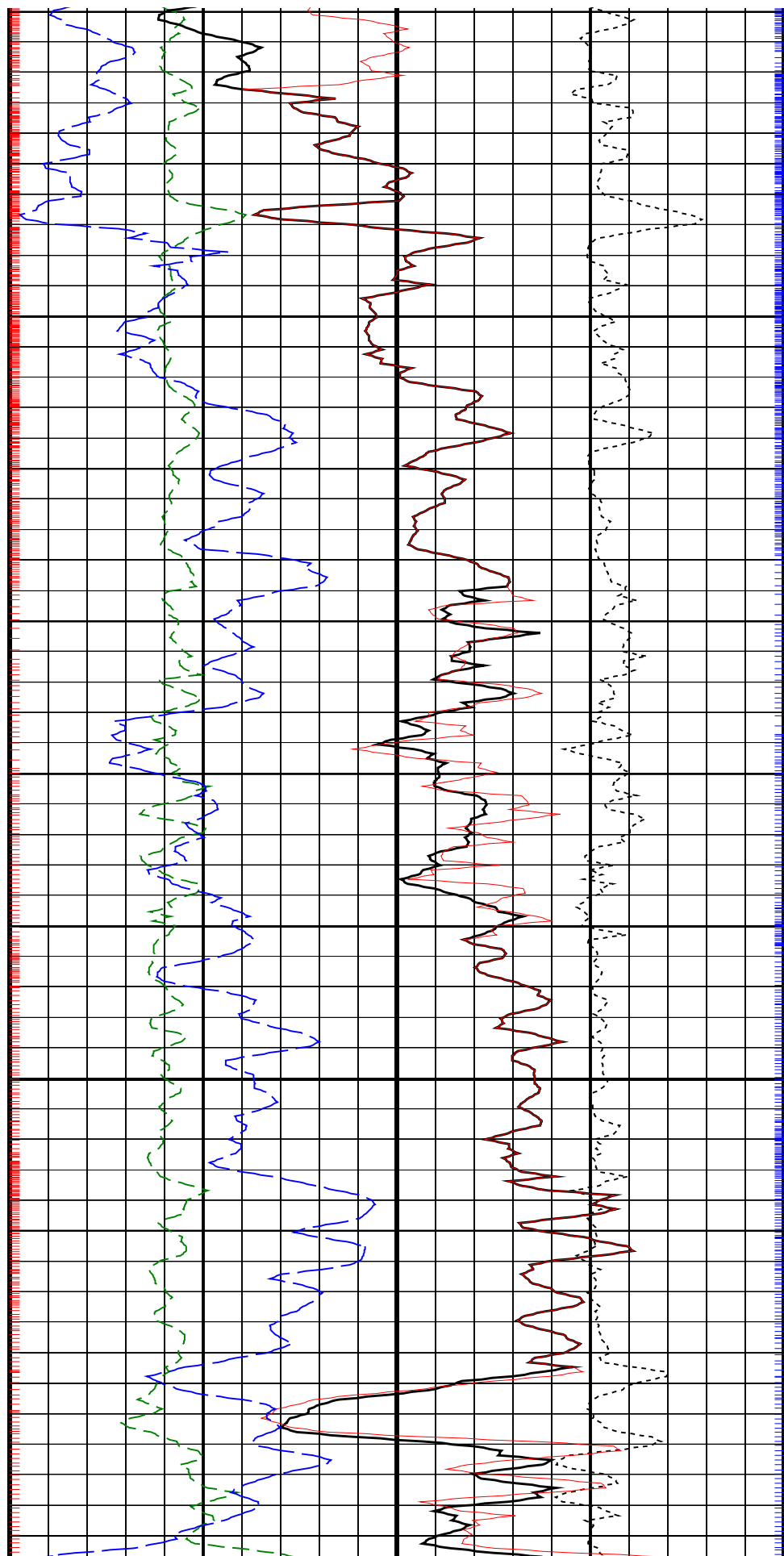
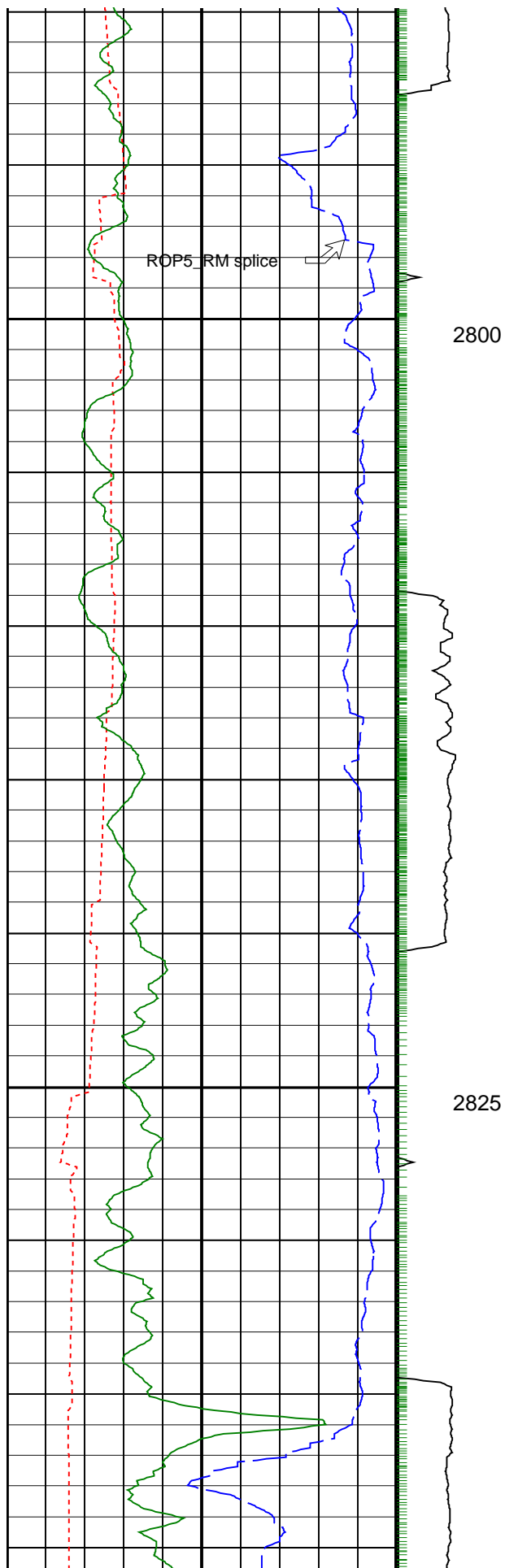


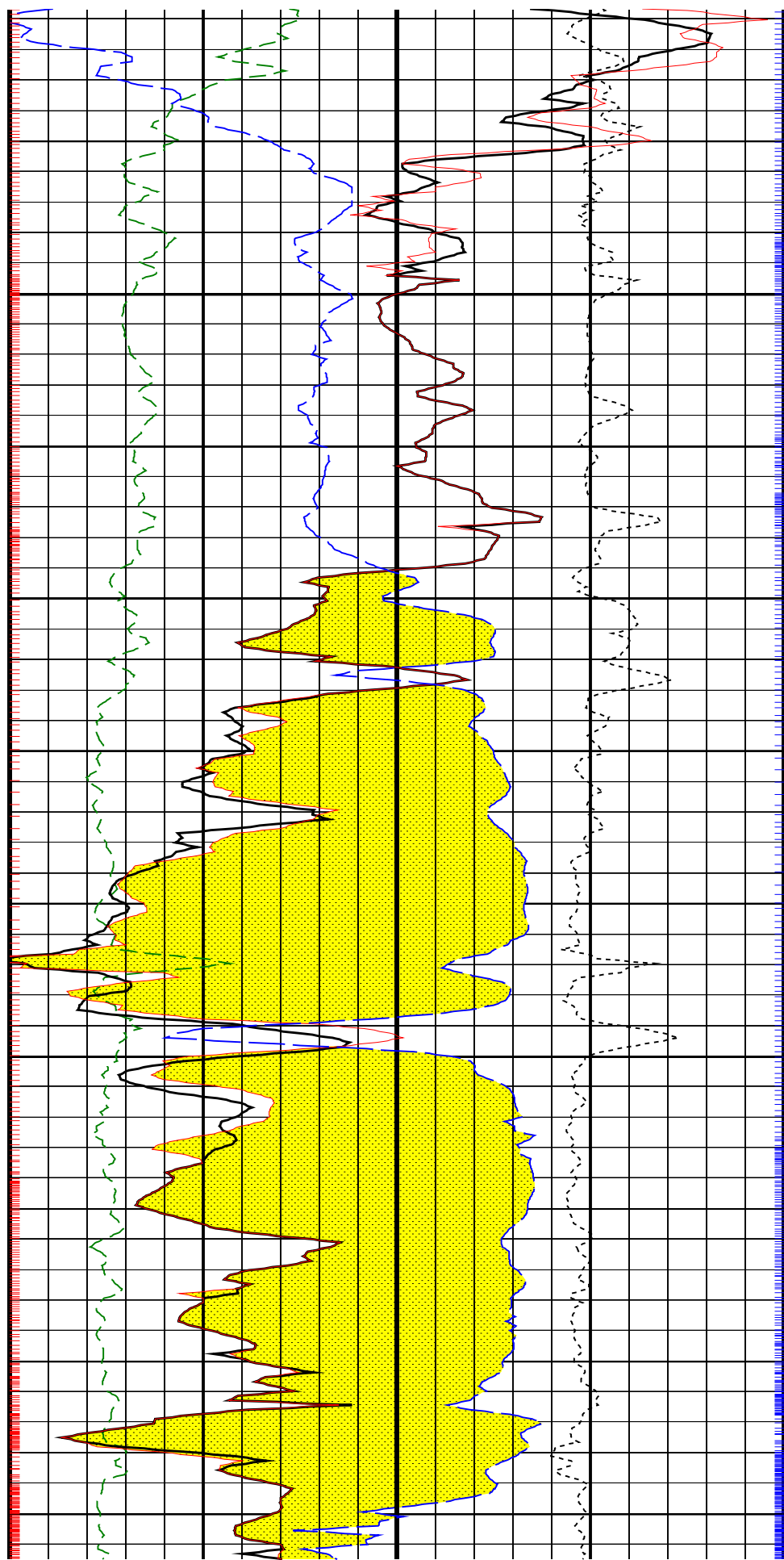
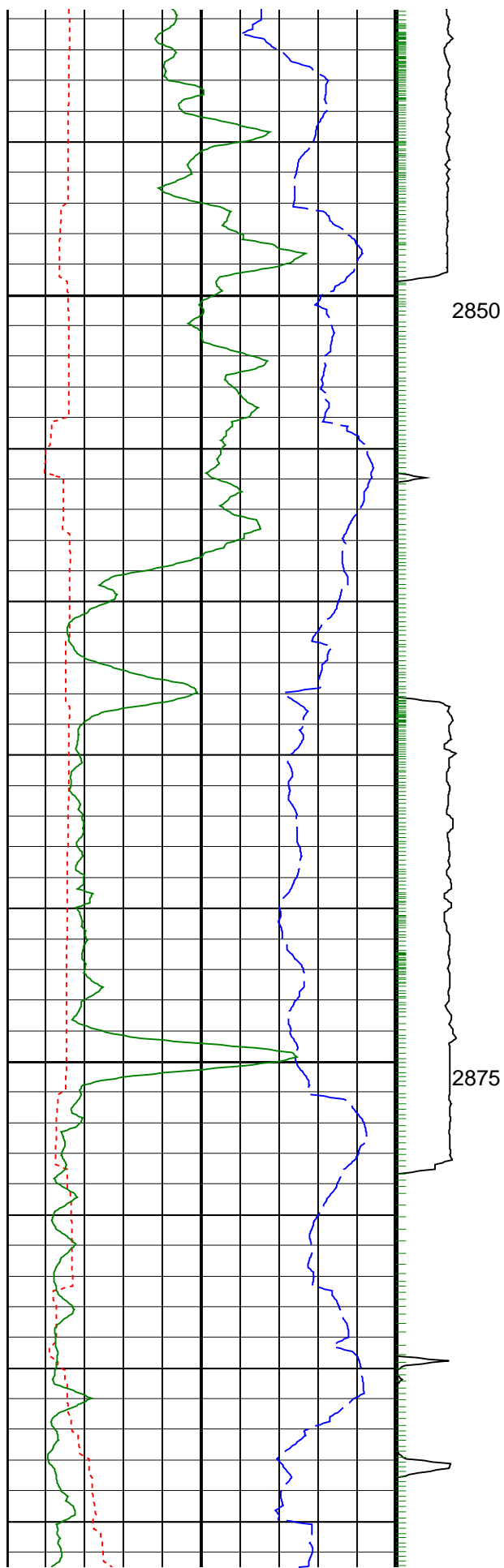


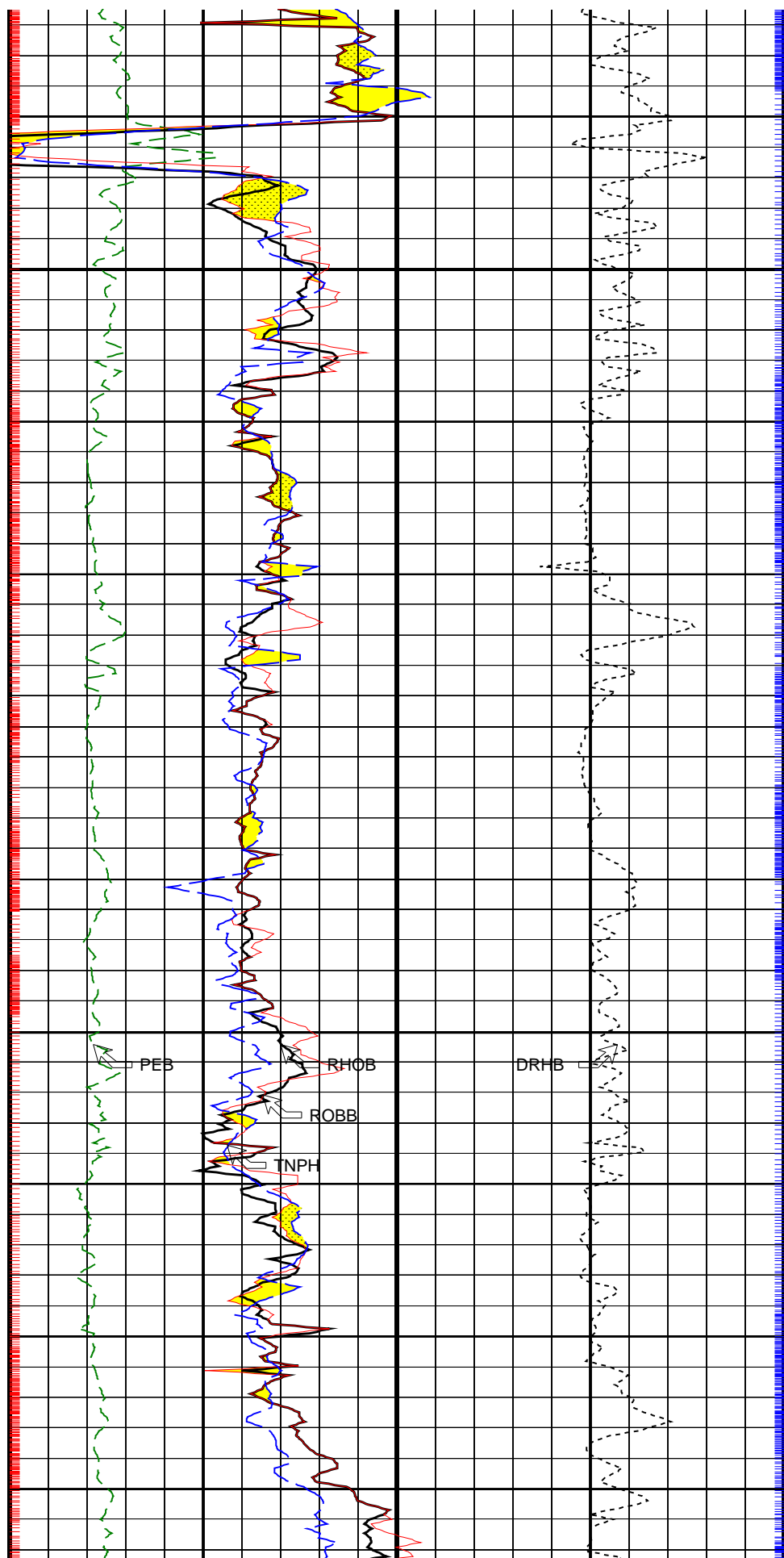
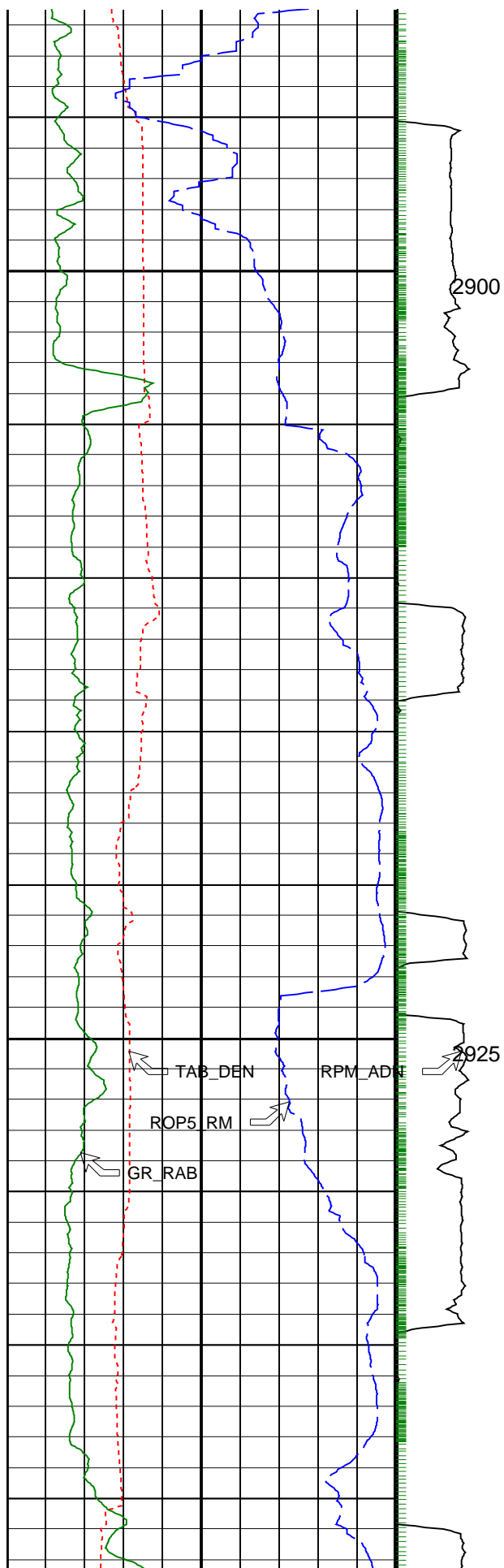


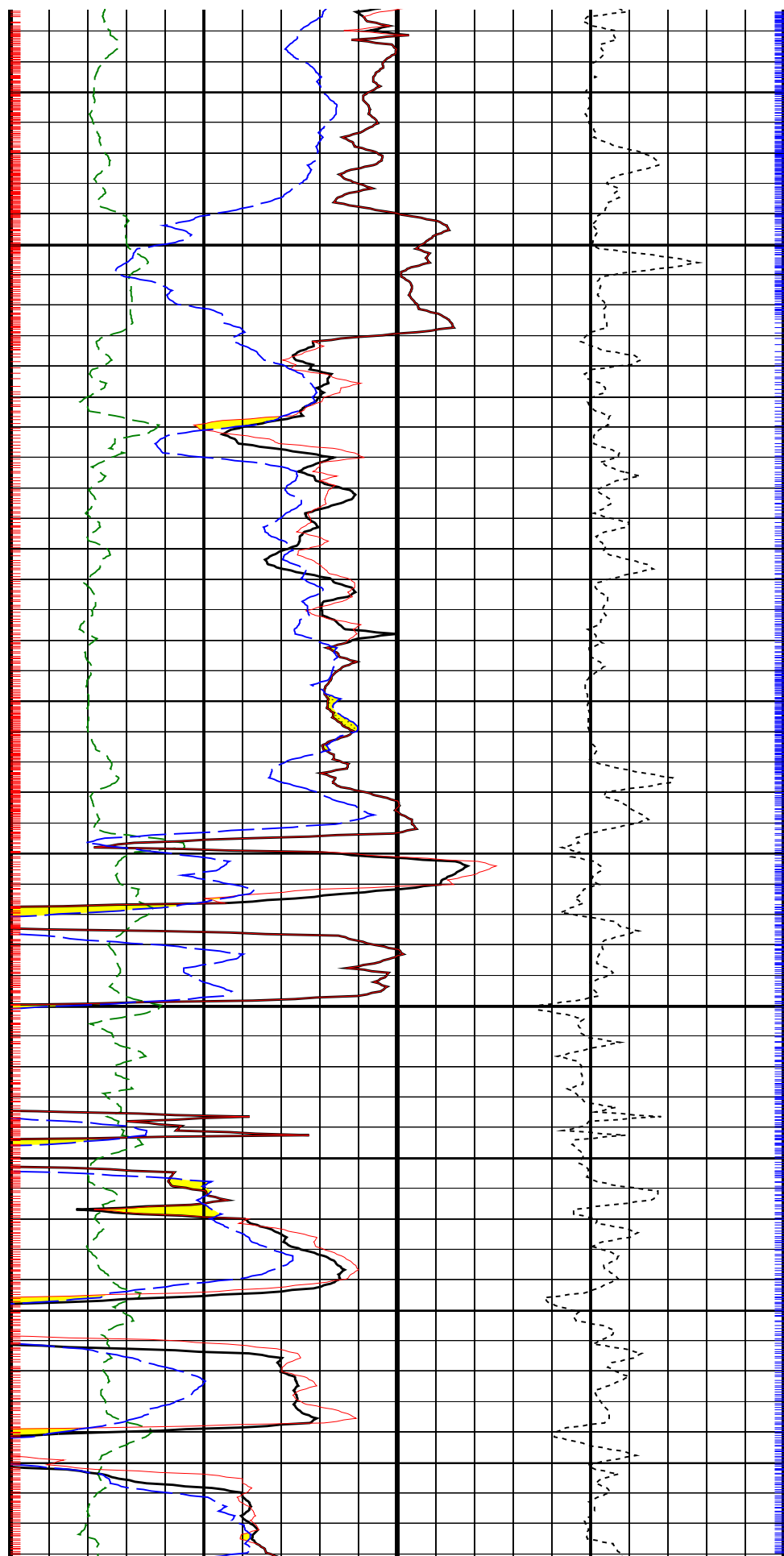
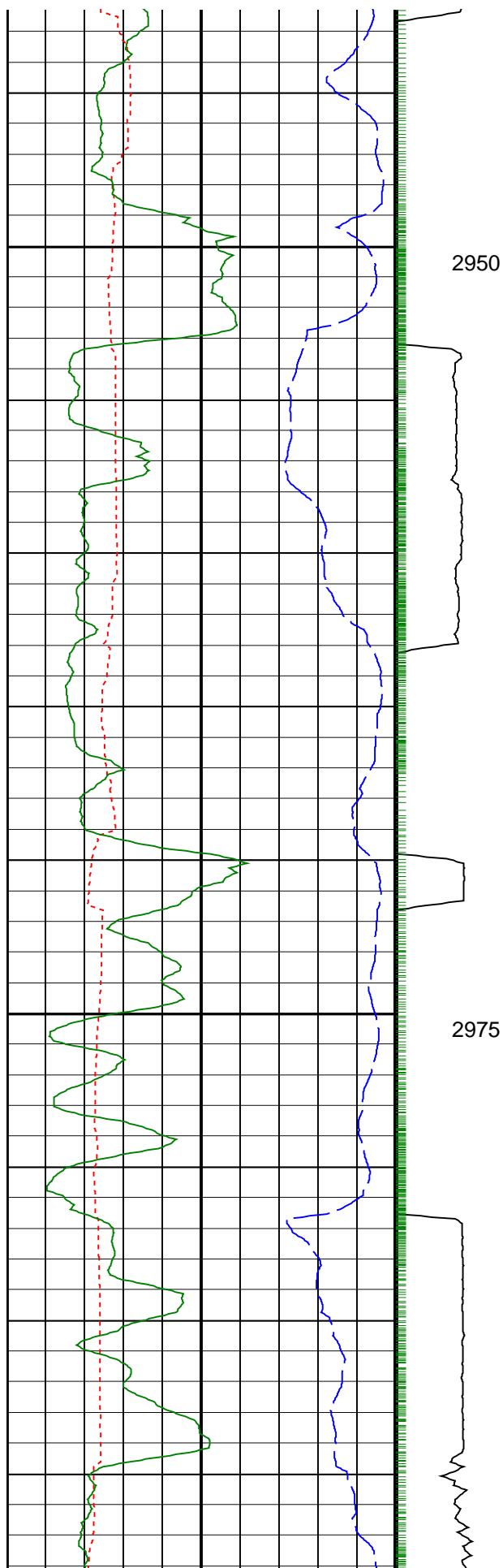


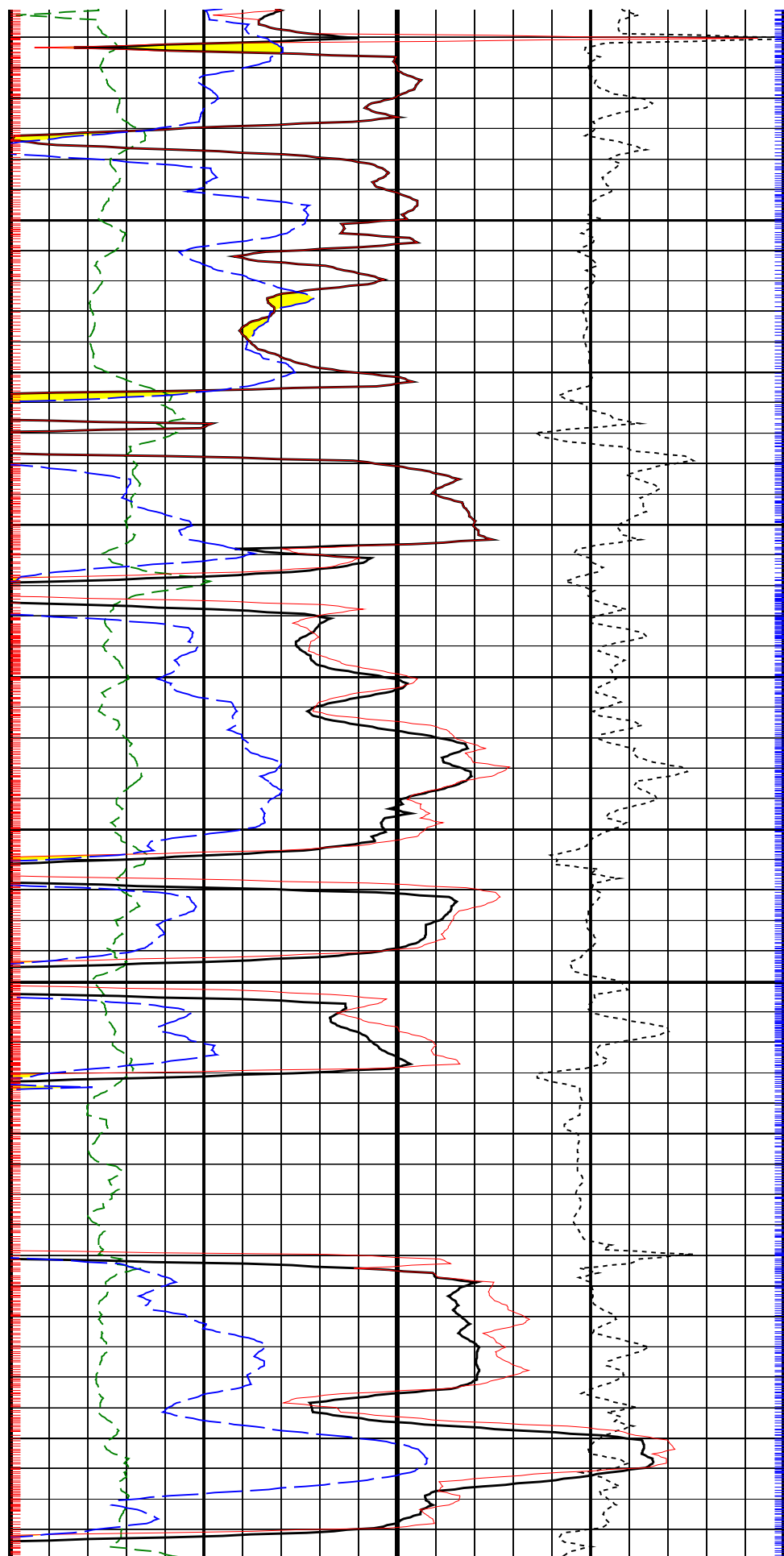
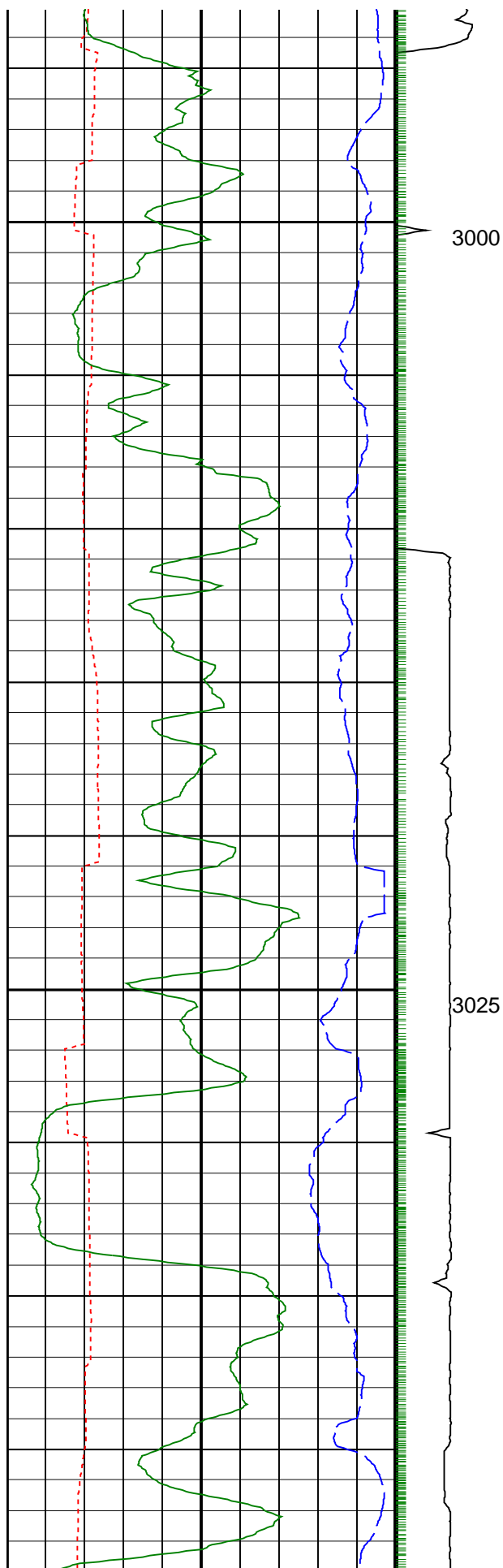


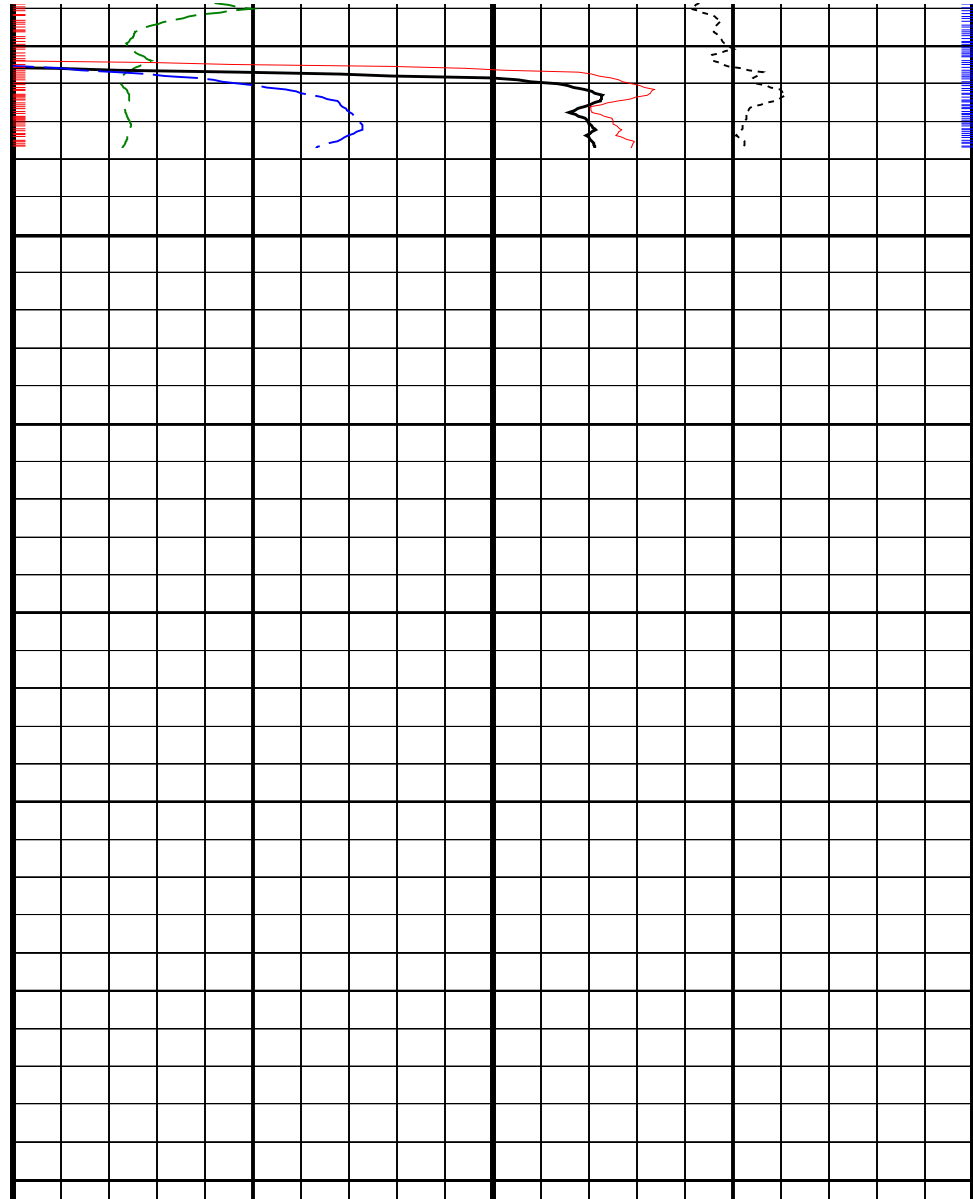
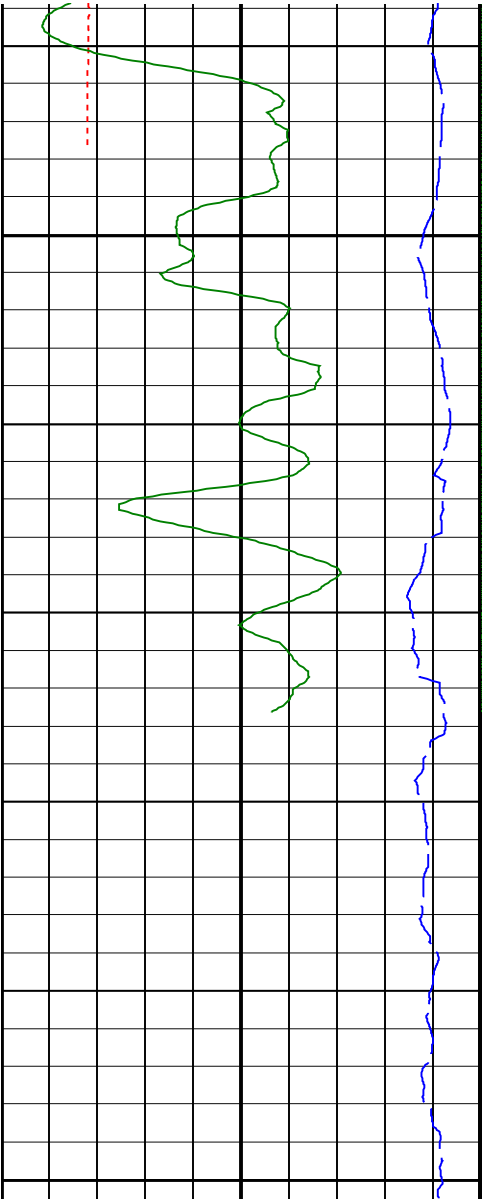












Density Time After Bit (TAB_DEN) (HR)	
0	10
RAB Gamma Ray (GR_RAB) (GAPI)	
0	200
Rate of Penetration, Averaged over Last 5ft (ROP5_RM) (M/HR)	
200	0

3075
ADN
Rotational
Speed
(RPM_ADN)
(RPM)
0
200

Photoelectric Factor, Bottom (PEB) (G/C3)	
0	10
Bulk Density (RHOB) (G/C3)	
1.85	2.85
Bulk Density, Bottom (ROBB) (G/C3)	
1.85	2.85
Thermal Neutron Porosity (TNPH) (PU)	
45	-15

Bulk Density Correction, Bottom (DRHB) (G/C3)	
-0.25	0.25
Bulk Density (RHOB) (G/C3)	
1.85	2.85
Bulk Density, Bottom (ROBB) (G/C3)	
1.85	2.85
Thermal Neutron Porosity (TNPH) (PU)	
45	-15

LWD Spare Area From ADN/ROBB/DEPTH to ADN/TNPH/DEPTH	
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PIP SUMMARY	
+	Density Ticks, 0.1 ft
+	Gamma Ray Samples
	Neutron Ticks, 0.1 ft

IDEAL Version: ID7_OC_02

IDF

RAB
ADN

id6_1c_10
id6_1c_10

MWD_10

id6_1c_10

6.75-in. Azimuthal Density Neutron / Equipment Identification

Primary Equipment:
Tool Name and Serial Number
Neutron Logging Source
Density Logging Source
Stabilizer Size
Calibration Status

ADN6 – CA 289
NSR – M 161
GSR – J/Z 2125
8.25 – in.
Valid

Master: 24-JUL-2002 8:49

6.75-in. Azimuthal Density Neutron Calibration

Density: Magnesium Block

Phase	LS window 3 – Mg CPS	Value	Phase	SS window 1 – Mg CPS	Value	Phase	SS window 3 – Mg CPS	Value
Master		1334	Master		3054	Master		7545
	250.0 (Minimum) 4125 (Nominal) 8000 (Maximum)			700.0 (Minimum) 9350 (Nominal) 18000 (Maximum)			2500 (Minimum) 23750 (Nominal) 45000 (Maximum)	

Master: 24-JUL-2002 8:49

6.75-in. Azimuthal Density Neutron Calibration

Density: Aluminum Block

Phase	LS window 3 – Al CPS	Value	Phase	SS window 1 – Al CPS	Value	Phase	SS window 3 – Al CPS	Value
Master		208.1	Master		1635	Master		4899
	50.00 (Minimum) 725.0 (Nominal) 1400 (Maximum)			500.0 (Minimum) 4250 (Nominal) 8000 (Maximum)			1500 (Minimum) 15750 (Nominal) 30000 (Maximum)	

Master: 24-JUL-2002 8:49

6.75-in. Azimuthal Density Neutron Calibration

Density: Background

Phase	LS window 3 – Background CPS	Value	Phase	SS window 1 – Background CPS	Value	Phase	SS window 3 – Background CPS	Value
Master		52.11	Master		125.8	Master		548.2
	15.00 (Minimum) 82.50 (Nominal) 150.0 (Maximum)			40.00 (Minimum) 220.0 (Nominal) 400.0 (Maximum)			150.0 (Minimum) 825.0 (Nominal) 1500 (Maximum)	

Master: 24-JUL-2002 8:49

6.75-in. Azimuthal Density Neutron Calibration

Density: Water Block Check











Phase	Long spacing water density G/C3	Value	Phase	Short spacing water density G/C3	Value
Master		1.035	Master		1.126
	1.011 (Minimum) 1.026 (Nominal) 1.041 (Maximum)			1.093 (Minimum) 1.118 (Nominal) 1.143 (Maximum)	

Master: 24-JUL-2002 8:49

6.75-in. Azimuthal Density Neutron Calibration

Neutron: Water Tank

Phase	Far 1 tube 1 gain	Value	Phase	Far 1 tube 1 offset CPS	Value
Master		1.106	Master		-0.8130
	0.9000 (Minimum) 1.100 (Nominal) 1.300 (Maximum)			-1.200 (Minimum) -0.9000 (Nominal) -0.6000 (Maximum)	
Phase	Far 1 tube 2 gain	Value	Phase	Far 1 tube 2 offset CPS	Value
Master		1.054	Master		-0.9150
	0.9000 (Minimum) 1.100 (Nominal) 1.300 (Maximum)			-1.200 (Minimum) -0.9000 (Nominal) -0.6000 (Maximum)	
Phase	Far 1 tube 3 gain	Value	Phase	Far 1 tube 3 offset CPS	Value
Master		1.064	Master		-0.8000
	0.9000 (Minimum) 1.100 (Nominal) 1.300 (Maximum)			-1.200 (Minimum) -0.9000 (Nominal) -0.6000 (Maximum)	

Master		1.064	Master		-0.8000
0.9000 (Minimum)	1.100 (Nominal)	1.300 (Maximum)	-1.200 (Minimum)	-0.9000 (Nominal)	-0.6000 (Maximum)
Phase	Far 2 tube 1 gain	Value	Phase	Far 2 tube 1 offset CPS	Value
Master		1.106	Master		-0.7490
0.9000 (Minimum)	1.100 (Nominal)	1.300 (Maximum)	-1.200 (Minimum)	-0.9000 (Nominal)	-0.6000 (Maximum)
Phase	Far 2 tube 2 gain	Value	Phase	Far 2 tube 2 offset CPS	Value
Master		1.005	Master		-0.8300
0.9000 (Minimum)	1.100 (Nominal)	1.300 (Maximum)	-1.200 (Minimum)	-0.9000 (Nominal)	-0.6000 (Maximum)
Phase	Far 2 tube 3 gain	Value	Phase	Far 2 tube 3 offset CPS	Value
Master		1.103	Master		-0.8040
0.9000 (Minimum)	1.100 (Nominal)	1.300 (Maximum)	-1.200 (Minimum)	-0.9000 (Nominal)	-0.6000 (Maximum)
Phase	Near 1 tube 1 gain	Value			
Master		1.085			
0.9000 (Minimum)	1.100 (Nominal)	1.300 (Maximum)			
Phase	Near 2 tube 1 gain	Value			
Master		1.058			
0.9000 (Minimum)	1.100 (Nominal)	1.300 (Maximum)			

6.75-in. Resistivity At-the-Bit / Equipment Identification

Primary Equipment:

Tool Name and Serial Number













RAB6 – CA

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Calibration Status


Valid

Master: 28-JUL-2002 11:01

6.75-in. Resistivity At-the-Bit Calibration								
Resistivity: Fixture								
Phase	Ring/T1 factor	Value	Phase	Ring/T2 factor	Value	Phase	M0/T1 factor	Value
Master		0.9850	Master		0.9970	Master		0.9930
0.9750 (Minimum)	1.000 (Nominal)	1.025 (Maximum)	0.9750 (Minimum)	1.000 (Nominal)	1.025 (Maximum)	0.9750 (Minimum)	1.000 (Nominal)	1.025 (Maximum)
Phase	M0/T2 factor	Value	Phase	M2/T1 factor	Value	Phase	M2/T2 factor	Value
Master		0.9970	Master		0.9980	Master		1.003
0.9750 (Minimum)	1.000 (Nominal)	1.025 (Maximum)	0.9750 (Minimum)	1.000 (Nominal)	1.025 (Maximum)	0.9750 (Minimum)	1.000 (Nominal)	1.025 (Maximum)
Phase	BTN shallow/T1 factor	Value	Phase	BTN shallow/T2 factor	Value	Phase	BTN medium/T1 factor	Value
Master		1.014	Master		1.020	Master		1.018
0.9750 (Minimum)	1.000 (Nominal)	1.025 (Maximum)	0.9750 (Minimum)	1.000 (Nominal)	1.025 (Maximum)	0.9750 (Minimum)	1.000 (Nominal)	1.025 (Maximum)
Phase	BTN medium/T2 factor	Value	Phase	BTN deep/T1 factor	Value	Phase	BTN deep/T2 factor	Value
Master		1.024	Master		1.015	Master		1.023
0.9750 (Minimum)	1.000 (Nominal)	1.025 (Maximum)	0.9750 (Minimum)	1.000 (Nominal)	1.025 (Maximum)	0.9750 (Minimum)	1.000 (Nominal)	1.025 (Maximum)

Master: 28-JUL-2002 11:01

6.75-in. Resistivity At-the-Bit Calibration		
Gamma Ray: Blanket		
Phase	Gamma ray factor	Value




Phase	Gamma ray factor			Value
Master				0.9010
	0.7500 (Minimum)	1.000 (Nominal)	1.250 (Maximum)	

6.75-in. Azimuthal Density Neutron / Equipment Identification




Primary Equipment:
Tool Name and Serial Number
Neutron Logging Source
Density Logging Source
Stabilizer Size
Calibration Status

ADN6 – CA 219
NSR – M 161
GSR – J/Z 2125
8.25 – in.
Valid




Master: 23–JUL–2002 14:16

6.75-in. Azimuthal Density Neutron Calibration									
Density: Magnesium Block									
Phase	LS window 3 – Mg CPS			Value	Phase	SS window 1 – Mg CPS			Value
Master				1294	Master				3056
	250.0 (Minimum)	4125 (Nominal)	8000 (Maximum)			700.0 (Minimum)	9350 (Nominal)	18000 (Maximum)	
Phase	SS window 3 – Mg CPS			Value					
Master				7448					
	2500 (Minimum)	23750 (Nominal)	45000 (Maximum)						

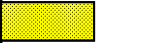
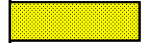
Master: 23–JUL–2002 14:16

6.75-in. Azimuthal Density Neutron Calibration									
Density: Aluminum Block									
Phase	LS window 3 – Al CPS			Value	Phase	SS window 1 – Al CPS			Value
Master				190.8	Master				1547
	50.00 (Minimum)	725.0 (Nominal)	1400 (Maximum)			500.0 (Minimum)	4250 (Nominal)	8000 (Maximum)	
Phase	SS window 3 – Al CPS			Value					
Master				4662					
	1500 (Minimum)	15750 (Nominal)	30000 (Maximum)						







Master: 23–JUL–2002 14:16








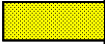
6.75-in. Azimuthal Density Neutron Calibration									
Density: Background									
Phase	LS window 3 – Background CPS			Value	Phase	SS window 1 – Background CPS			Value
Master				58.08	Master				125.9
	15.00 (Minimum)	82.50 (Nominal)	150.0 (Maximum)			40.00 (Minimum)	220.0 (Nominal)	400.0 (Maximum)	
Phase	SS window 3 – Background CPS			Value					
Master				543.1					
	150.0 (Minimum)	825.0 (Nominal)	1500 (Maximum)						

Master: 23–JUL–2002 14:16

6.75-in. Azimuthal Density Neutron Calibration									
Density: Water Block Check									
Phase	Long spacing water density G/C3			Value	Phase	Short spacing water density G/C3			Value
Master				1.043	Master				1.131
	1.016 (Minimum)	1.032 (Nominal)	1.047 (Maximum)			1.062 (Minimum)	1.107 (Nominal)	1.151 (Maximum)	

Master: 23–JUL–2002 14:16

6.75-in. Azimuthal Density Neutron Calibration									
Neutron: Water Tank									
Phase	Far 1 tube 1 gain			Value	Phase	Far 1 tube 1 offset CPS			Value
Master				1.077	Master				–0.9260
	0.9000 (Minimum)	1.100 (Nominal)	1.300 (Maximum)			–1.200 (Minimum)	–0.9000 (Nominal)	–0.6000 (Maximum)	
Phase	Far 1 tube 2 gain			Value	Phase	Far 1 tube 2 offset CPS			Value
Master				1.034	Master				–0.9100
	0.9000 (Minimum)	1.100 (Nominal)	1.300 (Maximum)			–1.200 (Minimum)	–0.9000 (Nominal)	–0.6000 (Maximum)	
Phase	Far 1 tube 3 gain			Value	Phase	Far 1 tube 3 offset CPS			Value
Master				1.085	Master				–0.8150
	0.9000 (Minimum)	1.100 (Nominal)	1.300 (Maximum)			–1.200 (Minimum)	–0.9000 (Nominal)	–0.6000 (Maximum)	

Master			1.085	Master			-0.8150	
0.9000 (Minimum)			1.100 (Nominal)	-1.200 (Minimum)			-0.9000 (Nominal)	-0.6000 (Maximum)
Phase	Far 2 tube 1 gain		Value	Phase	Far 2 tube 1 offset CPS		Value	
Master			1.064	Master			-0.8090	
0.9000 (Minimum)			1.100 (Nominal)	-1.200 (Minimum)			-0.9000 (Nominal)	-0.6000 (Maximum)
Phase	Far 2 tube 2 gain		Value	Phase	Far 2 tube 2 offset CPS		Value	
Master			1.052	Master			-0.8120	
0.9000 (Minimum)			1.100 (Nominal)	-1.200 (Minimum)			-0.9000 (Nominal)	-0.6000 (Maximum)
Phase	Far 2 tube 3 gain		Value	Phase	Far 2 tube 3 offset CPS		Value	
Master			1.081	Master			-0.7770	
0.9000 (Minimum)			1.100 (Nominal)	-1.200 (Minimum)			-0.9000 (Nominal)	-0.6000 (Maximum)
Phase	Near 1 tube 1 gain		Value					
Master			1.046					
0.9000 (Minimum)			1.100 (Nominal)					
Phase	Near 2 tube 1 gain		Value					
Master			1.011					
0.9000 (Minimum)			1.100 (Nominal)					

6.75-in. Resistivity At-the-Bit / Equipment Identification

Primary Equipment:

Tool Name and Serial Number

RAB6 – CA

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







Calibration Status

Valid

Master: 11-JUN-2002 15:39

6.75-in. Resistivity At-the-Bit Calibration


Resistivity: Fixture

Phase	Ring/T1 factor			Value	Phase	Ring/T2 factor			Value	Phase	M0/T1 factor			Value			
Master				1.002	Master				0.9974	Master				1.004			
0.9750 (Minimum)				1.000 (Nominal)	1.025 (Maximum)				0.9750 (Minimum)				1.000 (Nominal)	1.025 (Maximum)			
Phase	M0/T2 factor			Value	Phase	M2/T1 factor			Value	Phase	M2/T2 factor			Value			
Master				0.9992	Master				0.9985	Master				0.9932			
0.9750 (Minimum)				1.000 (Nominal)	1.025 (Maximum)				0.9750 (Minimum)				1.000 (Nominal)	1.025 (Maximum)			
Phase	BTN shallow/T1 factor			Value	Phase	BTN shallow/T2 factor			Value	Phase	BTN medium/T1 factor			Value			
Master				1.003	Master				0.9977	Master				1.007			
0.9750 (Minimum)				1.000 (Nominal)	1.025 (Maximum)				0.9750 (Minimum)				1.000 (Nominal)	1.025 (Maximum)			
Phase	BTN medium/T2 factor			Value	Phase	BTN deep/T1 factor			Value	Phase	BTN deep/T2 factor			Value			
Master				1.001	Master				1.005	Master				0.9997			
0.9750 (Minimum)				1.000 (Nominal)	1.025 (Maximum)				0.9750 (Minimum)				1.000 (Nominal)	1.025 (Maximum)			

Master: 11-JUN-2002 10:07

6.75-in. Resistivity At-the-Bit Calibration

Gamma Ray: Blanket

Phase	Gamma ray factor		Value
Master			0.8760

0.7500
(Minimum)1.000
(Nominal)1.250
(Maximum)

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SCHLUMBERGER

Survey report

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Client.....: Esso Australia Ltd.
Field.....: TUNA

Well.....: A-29
API number.....:
Engineer.....: J. Walta

COUNTY.....: ISDL 453
STATE.....: Victoria

Spud date.....: 27-Jul-2002
Last survey date.....: 11-Aug-02
Total accepted surveys...: 106
MD of first survey.....: 156.07 m
MD of last survey.....: 3075.00 m

----- Survey calculation methods-----
Method for positions.....: Minimum curvature
Method for DLS.....: Mason & Taylor

----- Depth reference -----
Permanent datum.....: GROUND LEVEL
Depth reference.....: Driller's Pipe Tally
GL above permanent.....: -59.40 m
KB above permanent.....: 31.30 m
DF above permanent.....: 31.30 m

----- Vertical section origin-----
Latitude (+N/S-).....: 0.00 m
Departure (+E/W-).....: 0.00 m

----- Platform reference point-----
Latitude (+N/S-).....: 1.86 m
Departure (+E/W-).....: 6.34 m

Azimuth from rotary table to target: 277.51 degrees

----- Geomagnetic data -----
Magnetic model.....: BGGM version 2001
Magnetic date.....: 27-Jul-2002
Magnetic field strength...: 1200.21 HCNT
Magnetic dec (+E/W-).....: 13.19 degrees
Magnetic dip.....: -68.68 degrees

----- MWD survey Reference Criteria -----
Reference G.....: 1000.02 mGal
Reference H.....: 1200.21 HCNT
Reference Dip.....: -68.68 degrees
Tolerance of G.....: (+/-) 2.50 mGal
Tolerance of H.....: (+/-) 6.00 HCNT
Tolerance of Dip.....: (+/-) 0.45 degrees

----- Corrections -----
Magnetic dec (+E/W-).....: 13.19 degrees
Grid convergence (+E/W-)..: -0.88 degrees
Total az corr (+E/W-).....: 14.07 degrees
(Total az corr = magnetic dec - grid conv)
Sag applied (Y/N).....: No degree: 0.00

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Seq #	Measured depth (m)	Incl angle (deg)	Azimuth angle (deg)	Course length (m)	TVD depth (m)	Vertical section (m)	Displ +N/S- (m)	Displ +E/W- (m)	Total displ (m)	At Azim (deg)	DLS (deg/10m)	Srvy tool type	Tool qual type
1	156.07	6.35	307.91	0.00	155.95	2.02	4.61	1.11	3.23	13.48	0.00	TIP	-
2	170.00	5.97	310.00	13.93	169.80	3.33	5.55	-0.06	4.64	359.41	0.32	GYR	-
3	180.00	6.25	311.20	10.00	179.74	4.26	6.25	-0.86	5.68	352.12	0.31	GYR	-
4	190.00	6.50	311.00	10.00	189.68	5.21	6.98	-1.70	6.77	346.39	0.25	GYR	-
5	199.00	7.95	302.40	9.00	198.61	6.23	7.64	-2.61	7.87	341.14	2.01	GYR	-
6	207.87	9.50	297.60	8.87	207.38	7.50	8.31	-3.78	9.16	335.55	1.93	GYR	-
7	257.64	15.09	289.75	49.77	255.99	17.84	12.41	-13.52	19.34	312.53	1.17	MWD	6-axis
8	286.91	18.18	284.12	29.27	284.03	26.16	14.81	-21.54	26.46	304.51	1.19	MWD	6-axis
9	316.01	22.01	284.09	29.10	311.36	36.14	17.25	-31.24	37.23	298.90	1.32	MWD	6-axis
10	344.67	26.97	284.20	28.66	337.43	48.00	20.15	-42.75	48.96	295.23	1.73	MWD	6-axis
11	373.47	32.36	282.80	28.80	362.45	62.23	23.46	-56.61	63.08	292.51	1.89	MWD	6-axis
12	402.99	38.21	282.39	29.52	386.53	79.26	27.17	-73.24	80.01	290.35	1.98	MWD	6-axis
13	430.93	41.02	283.93	27.94	408.06	97.06	31.24	-90.59	97.67	289.02	1.07	MWD	6-axis
14	460.99	45.41	281.38	30.06	429.96	117.62	35.72	-110.67	118.27	287.89	1.57	MWD	6-axis
15	488.83	49.30	278.57	27.84	448.82	138.09	39.25	-130.83	138.62	286.70	1.58	MWD	6-axis
16	518.55	53.78	276.06	29.72	467.30	161.31	42.20	-153.91	161.67	285.33	1.65	MWD	6-axis
17	546.96	58.08	276.70	28.41	483.21	184.77	44.82	-177.29	184.99	284.19	1.52	MWD	6-axis
18	576.09	62.87	277.64	29.13	497.56	201.07	47.99	-202.43	201.19	283.34	1.67	MWD	6-axis
19	604.84	65.59	277.64	28.75	510.06	232.92	51.43	-228.09	235.99	282.71	0.95	MWD	6-axis
20	633.75	69.39	278.17	28.91	521.13	260.59	55.10	-254.53	262.63	282.22	1.33	MWD	6-axis
21	662.68	69.86	277.82	28.93	531.20	289.68	58.87	-281.39	289.70	281.82	0.20	MWD	6-axis
22	691.52	69.82	277.82	28.84	541.14	316.72	62.56	-308.21	316.72	281.47	0.01	MWD	6-axis
23	720.51	69.92	277.99	28.99	551.12	343.90	66.30	-335.17	343.90	281.19	0.06	MWD	6-axis
24	749.83	69.95	278.05	29.32	561.18	371.41	70.14	-362.44	371.41	280.95	0.02	MWD	6-axis
25	778.98	69.97	278.33	29.15	571.16	398.77	74.04	-389.55	398.78	280.76	0.09	MWD	6-axis
26	807.96	69.69	278.22	28.98	581.16	425.95	77.96	-416.47	425.96	280.60	0.10	MWD	6-axis
27	836.68	69.70	278.05	28.72	591.12	452.86	81.77	-443.13	452.88	280.46	0.06	MWD	6-axis
28	865.69	69.28	277.61	29.01	601.29	480.00	85.47	-470.05	480.03	280.31	0.20	MWD	6-axis
29	894.90	69.07	277.19	29.21	611.67	507.25	88.99	-497.13	507.30	280.15	0.15	MWD	6-axis
30	912.12	68.72	277.44	17.22	617.87	523.29	91.04	-513.06	523.35	280.06	0.24	MWD	6-axis

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Seq #	Measured depth	Incl angle	Azimuth angle	Course length	TVD depth	Vertical section	Displ +N/S-	Displ +E/W-	Total displ	At Azim	DLS (deg/	Srvy tool	Tool qual
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Seq #	Measured depth (m)	Incl angle (deg)	Azimuth angle (deg)	Course length (m)	TVD depth (m)	Vertical section (m)	Displ +N/S- (m)	Displ +E/W- (m)	Total displ (m)	At Azim (deg)	DLS (deg/ 10m)	Srvy tool type	Tool qual type
31	934.47	67.92	275.65	22.35	626.13	544.00	93.40	-533.69	544.09	279.93	0.83	MWD	6-axis
32	963.02	68.84	276.78	28.55	636.67	570.51	96.28	-560.12	570.63	279.75	0.49	MWD	6-axis
33	991.59	69.13	276.94	28.57	646.90	597.07	99.46	-586.55	597.22	279.62	0.11	MWD	6-axis
34	1019.91	69.09	276.77	28.32	656.99	623.47	102.62	-612.82	623.65	279.51	0.06	MWD	6-axis
35	1048.55	69.47	277.21	28.64	667.13	650.20	105.88	-639.41	650.42	279.40	0.20	MWD	6-axis
36	1076.12	68.94	276.89	27.57	676.91	675.92	109.04	-664.99	676.18	279.31	0.22	MWD	6-axis
37	1104.52	69.75	277.83	28.40	686.93	702.45	112.45	-691.35	702.74	279.24	0.42	MWD	6-axis
38	1133.71	70.22	278.09	29.19	696.92	729.85	116.25	-718.51	730.16	279.19	0.18	MWD	6-axis
39	1162.50	69.60	277.75	28.80	706.82	756.86	119.97	-745.30	757.20	279.14	0.24	MWD	6-axis
40	1191.22	68.78	277.44	28.71	717.37	784.59	123.64	-772.83	784.97	279.09	0.30	MWD	6-axis
41	1219.65	69.73	277.16	28.43	727.09	810.20	126.90	-798.27	810.61	279.03	0.35	MWD	6-axis
42	1248.12	69.03	277.03	28.47	737.11	836.79	130.20	-824.71	837.24	278.97	0.25	MWD	6-axis
43	1276.77	70.00	277.74	28.65	747.14	863.59	133.65	-851.33	864.07	278.92	0.41	MWD	6-axis
44	1304.64	69.61	277.23	27.87	756.76	889.70	137.05	-877.26	890.22	278.88	0.22	MWD	6-axis
45	1333.27	68.53	276.72	28.63	766.99	916.38	140.30	-903.80	916.95	278.82	0.41	MWD	6-axis
46	1362.51	69.76	277.56	29.24	777.40	943.66	143.70	-930.91	944.26	278.78	0.50	MWD	6-axis
47	1390.59	69.10	277.80	28.08	787.26	969.91	147.21	-956.97	970.55	278.75	0.25	MWD	6-axis
48	1419.55	70.10	277.74	28.96	797.36	997.02	150.88	-983.86	997.69	278.72	0.35	MWD	6-axis
49	1447.26	69.14	277.71	27.71	807.01	1022.96	154.37	-1009.60	1023.66	278.69	0.35	MWD	6-axis
50	1475.75	70.48	277.78	28.49	816.84	1049.66	157.98	-1036.10	1050.50	278.67	0.47	MWD	6-axis
51	1504.20	69.80	277.36	28.45	826.51	1076.38	161.50	-1062.62	1077.15	278.64	0.28	MWD	6-axis
52	1532.83	68.89	276.77	28.63	836.60	1103.11	164.80	-1089.21	1103.93	278.60	0.37	MWD	6-axis
53	1562.01	70.11	277.19	29.18	846.82	1130.39	168.12	-1116.34	1131.25	278.56	0.44	MWD	6-axis
54	1590.59	69.57	277.20	28.58	856.67	1157.17	171.48	-1142.95	1158.08	278.53	0.19	MWD	6-axis
55	1619.04	69.80	279.22	28.45	866.55	1183.82	175.29	-1169.36	1184.76	278.53	0.67	MWD	6-axis
56	1647.25	68.42	278.44	28.21	876.61	1210.16	179.33	-1195.40	1211.11	278.53	0.55	MWD	6-axis
57	1676.33	69.58	277.93	29.08	887.03	1237.28	183.20	-1222.27	1238.26	278.52	0.43	MWD	6-axis
58	1705.18	69.52	277.87	28.85	897.11	1264.28	186.91	-1249.05	1265.29	278.51	0.03	MWD	6-axis
59	1734.51	69.49	278.30	29.33	907.38	1291.73	190.78	-1276.25	1292.67	278.50	0.14	MWD	6-axis
60	1762.84	70.02	278.16	28.33	917.18	1318.28	194.58	-1302.55	1319.34	278.50	0.19	MWD	6-axis

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Seq #	Measured depth (m)	Incl angle (deg)	Azimuth angle (deg)	Course length (m)	TVD depth (m)	Vertical section (m)	Displ +N/S- (m)	Displ +E/W- (m)	Total displ (m)	At Azim (deg)	DLS (deg/ 10m)	Srvy tool type	Tool qual type
61	1791.89	68.75	277.51	29.05	927.41	1345.44	198.29	-1329.49	1346.53	278.48	0.48	MWD	6-axis
62	1820.89	69.70	278.23	29.00	937.70	1372.52	202.00	-1356.35	1373.64	278.47	0.40	MWD	6-axis
63	1849.94	70.22	278.36	29.05	947.65	1399.78	205.94	-1383.35	1400.93	278.47	0.18	MWD	6-axis
64	1878.96	70.43	278.43	29.02	957.42	1427.09	209.93	-1410.39	1428.26	278.47	0.08	MWD	6-axis
65	1907.42	69.37	278.19	28.46	967.20	1453.79	213.79	-1436.83	1454.98	278.46	0.38	MWD	6-axis
66	1936.61	69.40	277.83	29.19	977.48	1481.08	217.60	-1463.89	1482.30	278.45	0.12	MWD	6-axis
67	1965.40	70.13	277.70	28.79	987.44	1508.46	221.25	-1490.65	1509.32	278.44	0.26	MWD	6-axis
68	1994.90	69.00	277.57	29.50	997.74	1535.66	224.92	-1518.05	1536.96	278.43	0.39	MWD	6-axis
69	2023.87	69.58	277.53	28.97	1007.98	1562.72	228.48	-1544.91	1564.05	278.41	0.20	MWD	6-axis
70	2053.01	70.40	277.19	29.14	1017.95	1590.05	231.99	-1572.07	1591.43	278.39	0.30	MWD	6-axis
71	2081.95	69.28	276.84	28.94	1027.93	1617.16	235.31	-1599.03	1618.59	278.37	0.40	MWD	6-axis
72	2110.89	69.88	276.72	28.94	1038.01	1644.18	238.51	-1625.92	1645.66	278.35	0.21	MWD	6-axis
73	2139.84	69.69	277.89	28.95	1048.03	1671.34	241.96	-1652.91	1672.86	278.33	0.38	MWD	6-axis
74	2168.61	68.47	277.69	28.77	1058.30	1698.18	245.61	-1679.53	1699.73	278.32	0.43	MWD	6-axis
75	2196.77	68.73	278.43	28.16	1068.58	1724.37	249.28	-1705.49	1725.95	278.32	0.26	MWD	6-axis
76	2225.63	69.28	277.51	28.86	1078.92	1751.28	253.02	-1732.17	1752.90	278.31	0.35	MWD	6-axis
77	2254.91	68.25	277.29	29.28	1089.52	1778.53	256.53	-1759.24	1780.18	278.30	0.36	MWD	6-axis
78	2283.60	69.15	277.10	28.69	1099.94	1805.21	259.86	-1785.76	1806.91	278.28	0.32	MWD	6-axis
79	2312.77	68.10	276.88	29.17	1110.57	1832.31	263.15	-1812.73	1834.07	278.26	0.37	MWD	6-axis
80	2341.36	68.69	277.40	28.59	1121.10	1858.48	266.45	-1839.10	1856.64	278.24	0.27	MWD	6-axis
81	2370.89	68.94	276.86	29.53	1131.77	1886.32	269.87	-1866.42	1888.17	278.23	0.19	MWD	6-axis
82	2399.55	69.12	277.90	28.66	1142.03	1913.04	273.30	-1892.96	1914.93	278.22	0.34	MWD	6-axis
83	2428.92	69.05	277.42	29.37	1152.51	1940.43	276.96	-1920.15	1942.37	278.21	0.15	MWD	6-axis
84	2457.83	69.47	277.99	28.91	1162.75	1967.43	280.59	-1946.94	1969.40	278.20	0.23	MWD	6-axis
85	2486.94	68.79	278.64	29.11	1173.12	1994.61	284.52	-1973.86	1956.60	278.20	0.31	MWD	6-axis
86	2515.88	67.38	279.85	28.94	1183.92	2021.45	288.83	-2000.36	2023.44	278.25	0.62	MWD	6-axis
87	2545.04	65.00	281.43	29.16	1195.70	2048.12	293.75	-2026.57	2050.09	278.25	0.95	MWD	6-axis
88	2573.83	62.39	283.61	28.79	1208.45	2073.92	299.34	-2051.76	2075.83	278.30	1.13	MWD	6-axis
89	2602.58	58.65	285.62	28.75	1222.60	2098.88	305.65	-2075.98	2100.70	278.38	1.44	MWD	6-axis
90	2631.33	56.13	286.51	28.75	1238.09	2122.99	312.35	-2099.25	2124.69	278.46	0.91	MWD	6-axis

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Seq #	Measured depth (m)	Incl angle (deg)	Azimuth angle (deg)	Course length (m)	TVD depth (m)	Vertical section (m)	Displ +N/S- (m)	Displ +E/W- (m)	Total displ (m)	At Azim (deg)	DLS (deg/ 10m)	Srvy tool type	Tool qual type
91	2659.69	54.32	286.63	28.36	1254.27	2146.16	318.99	-2121.58	2147.75	278.55	0.64	MWD	6-axis
92	2688.71	53.11	287.55	29.02	1271.44	2169.41	325.86	-2143.93	2170.88	278.64	0.49	MWD	6-axis
93	2718.07	51.22	289.76	29.36	1289.76	2192.37	333.27	-2165.90	2193.72	278.75	0.88	MWD	6-axis
94	2746.79	49.16	290.96	28.72	1307.84	2214.12	340.94	-2186.59	2215.33	278.86	0.79	MWD	6-axis

93	2718.07	51.22	289.76	29.36	1289.45	2192.37	333.27	-2165.90	2193.72	278.75	0.88	MWD	6-axis
94	2746.79	49.16	290.96	28.72	1307.84	2214.12	340.94	-2186.59	2215.33	278.86	0.79	MWD	6-axis
95	2776.50	47.88	292.40	29.71	1327.52	2235.97	349.16	-2207.27	2237.03	278.99	0.56	MWD	6-axis
96	2805.24	46.70	293.44	28.74	1347.01	2256.61	357.39	-2226.72	2257.53	279.12	0.49	MWD	6-axis
97	2833.96	43.73	298.05	28.72	1367.25	2273.28	366.22	-2245.08	2277.05	279.26	1.54	MWD	6-axis
98	2862.50	42.39	302.54	28.54	1388.10	2294.63	376.03	-2261.90	2295.24	279.44	1.17	MWD	6-axis
99	2891.25	40.70	305.19	28.75	1409.62	2312.16	386.65	-2277.73	2312.61	279.63	0.85	MWD	6-axis
100	2920.00	38.59	306.07	28.75	1431.76	2328.80	397.33	-2292.64	2329.10	279.83	0.76	MWD	6-axis
101	2948.89	36.50	309.17	28.89	1454.67	2344.50	408.06	-2306.59	2344.68	280.03	0.97	MWD	6-axis
102	2977.95	33.86	311.42	29.06	1478.42	2359.06	418.88	-2319.36	2359.15	280.24	1.01	MWD	6-axis
103	3006.85	30.56	313.56	28.90	1502.87	2372.17	429.26	-2330.75	2372.30	280.44	1.21	MWD	6-axis
104	3036.40	27.10	314.14	29.55	1528.75	2384.11	439.10	-2341.04	2384.12	280.63	1.17	MWD	6-axis
105	3053.55	26.87	314.19	17.15	1544.03	2390.60	444.53	-2346.62	2390.60	280.73	0.13	MWD	6-axis
106	3075.00	26.61	314.25	21.45	1563.19	2398.65	451.26	-2353.54	2398.65	280.86	0.12	Projection	

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Company:

Esso Australia Ltd.

Well:

TNA A-29

Field:

Tuna

Rig:

ISDL 453

State:

Victoria