

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

Rig: ISDL 453 Field: Tuna Location: Bass Strait Well: TNA A-29 Company: Esso Australia Ltd.	VISION Density Neutron 1:200 True Vertical Depth Recorded Mode Log												
	Location	Total depth: 3075 m				Elevation	K.B. Top Drive						
		Spud date: 27-July-02					G.L. -59.4 m						
		Runs: 3 To 6					D.F. 31.3 m						
		Permanent datum: Mean Sea Level				Elev.: 59.4 m							
		Log measured from: Drill Floor				31.3 m above Perm. datum							
	Depth reference: Driller's Pipe Tally												
	API serial no.		x = 5774225.50m (North) y = 624224.90m (East)				Longitude		Latitude				
							E 148 25 5.513		S 38 10 16.237				
	Depth logged: 928 m		To 3075 m		Mag decl: 13.19°			Other services:					
Date logged: 3-Aug-02		To 11-Aug-02		Mag dip: -68.68°			Directional Drilling						
Bore hole record						Casing record							
Hole size		from		to		Size		Density		from		to	
12 1/4 in.		164.9 m		937 m		20 in.		84 lb/ft		Surface		164.9 m	
8 1/2 in.		928 m		3075 m		9 5/8 in.		47 lb/ft		Surface		928 m	
Mud record						Borehole deviation record							
Type		from		to		Min		Max		from		to	
Seawater		164.9 m		937 m		6.35°		69.39°		165 m		634 m	
KCL/PHPA/GLYCOL		928 m		3075 m		67.92°		70.43°		634 m		2515 m	
						26.61°		67.38°		2515 m		3075 m	
Surface equipment				Software record				IDEAL services from Anadrill					
Unit		OLU-FB-924		IDEAL Wis		ID6_1C_10r							
Depth system		PDA		SPM		ID6_1C_10r							
				LWD		see toolsketch							
				MWD		see toolsketch							

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

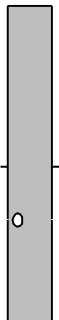
RUN6

DOWNHOLE EQ

6-3/4" A
ADSE
8-1/4in
NSR-M
GSR-J A
Soft: 6.2

Neutron
Neutron
Density
Density
UltraSo
R-O P

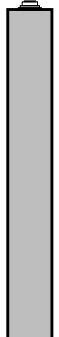
27.8
27.6
26.8
26.7
26.3
25.5



6-3/4" Powe
MDC Z
MDI 116
MEC 115
Soft: 6.1

D&I
GR


19.4
18.7



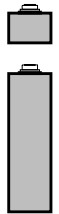
6-3/4" G
S/N: 1
Soft: 6.1

Shallo
Medium
Deep
Ring R
R-O p
GR

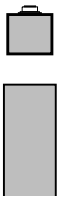
13.7
13.6
13.4
13.2
13.1
12.9



Cross Over S
NM Pony
S/N ANA9



ADOS S/N
PowerPak* Mu
A675XP7850
1.15 deg bent B




DOWNHOLE E

6-3/4" A
ADSE
8-1/4in
NSR-M
GSR-J A
Soft: 6.2

Neutron
Neutron
Density
Density
UltraSo
R-O P


27.7
27.6
26.7
26.6
26.2
25.4



6-3/4" Powe
MDC Z
MDI 116
MEC 115
Soft: 6.1

D&I
GR


19.3
18.7




6-3/4" G
S/N: 1
Soft: 6.1

Shallo
Medium
Deep
Ring R
R-O p
GR


13.6
13.5
13.3
13.2
13.0
12.8



Cross Over S
NM Pony
S/N ANA9



ADOS S/N
PowerPak* Mu
A675XP7850
1.15 deg bent B

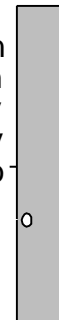


DOWNHOLE EQ

6-3/4" A
ADSE
8-1/4in
NSR-M
GSR-J A
Soft: 6.1

Neutron
Neutron
Density
Density
UltraSo
R-O P


27.6
27.5
26.6
26.5
26.1
25.4



6-3/4" Powe
MDC Z
MDI 116
MEC 115
Soft: 6.1

D&I
GR


19.3
18.7




6-3/4" G
S/N: 1
Soft: 6.1

Shallo
Medium
Deep
Ring R
R-O p
GR


13.6
13.5
13.3
13.2
13.0
12.8






Cross Over S
NM Pony
S/N ANA9



ADOS S/N
PowerPak* Mu
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	0.00	Bit-PD GeoDIAMOND Model: S7 MAXIMUM STRING DI ALL LENGTHS I	0.00	Bit-PD GeoDIAMOND Model: S7 MAXIMUM STRING DI ALL LENGTHS I	0.00

True Vertical Depth Log

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 14:21

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

Density Ticks, 0.1 ft

Neutron Ticks, 0.1 ft

Gamma Ray Samples

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

Thermal Neutron Porosity (TNPH)
(PU)

45

-15

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

1.85

2.85

Bulk Density (RHOB)
(G/C3)

1.85

2.85

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

200

0

RAB Gamma Ray (GR_RAB)
(GAPI)

0

200

Density Time After Bit (TAB_DEN)
(HR)

0

10

ADN
Rotational
Speed
(RPM_ADN)
(RPM)

0

200

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

0

10

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

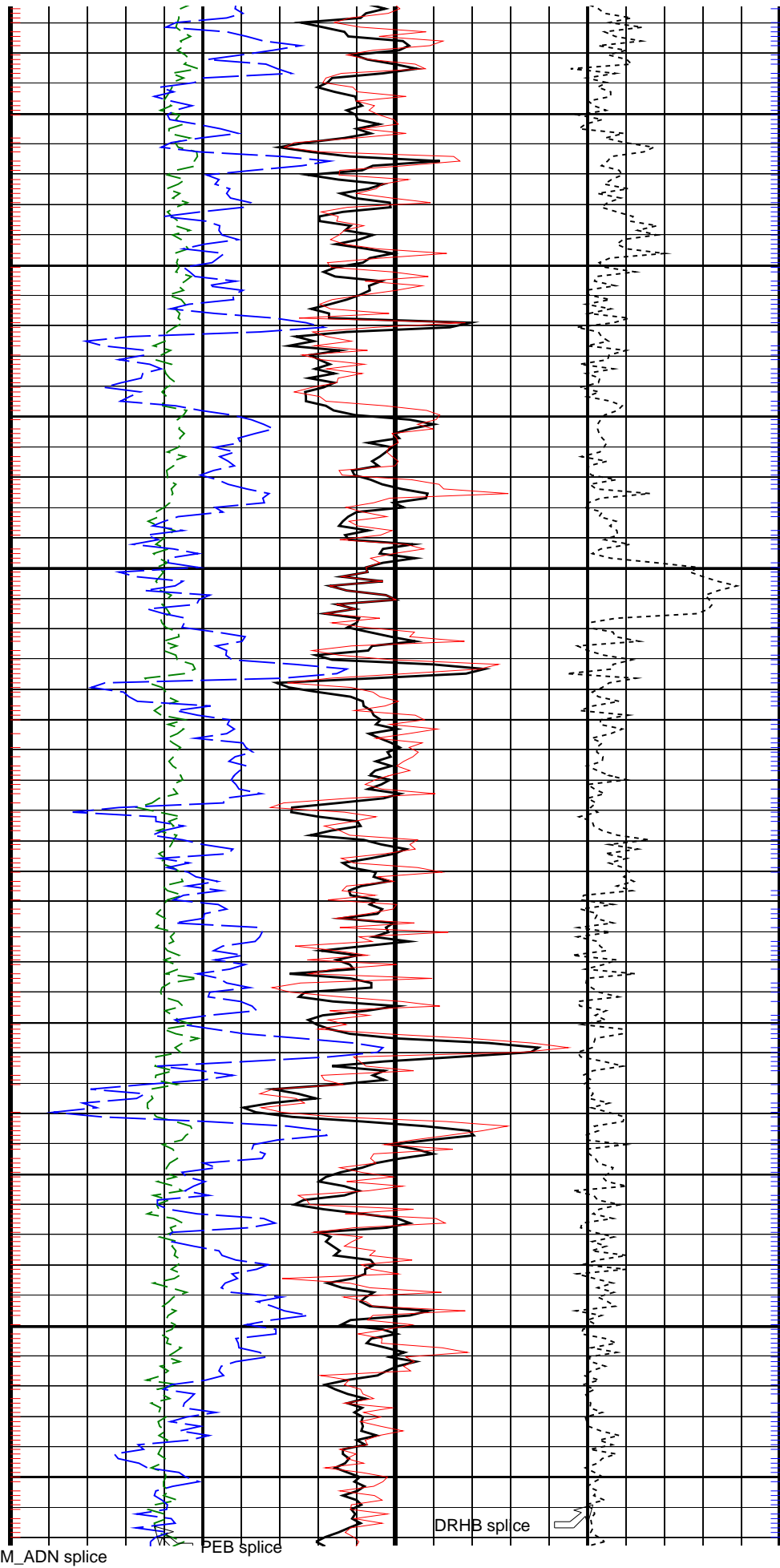
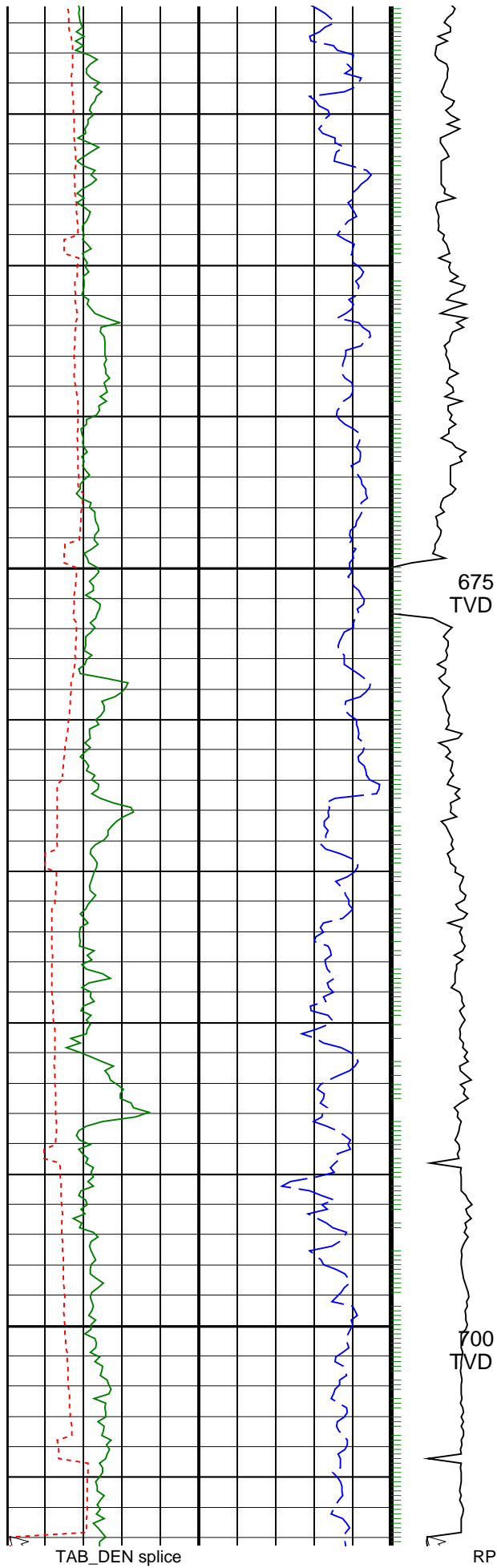
-0.25

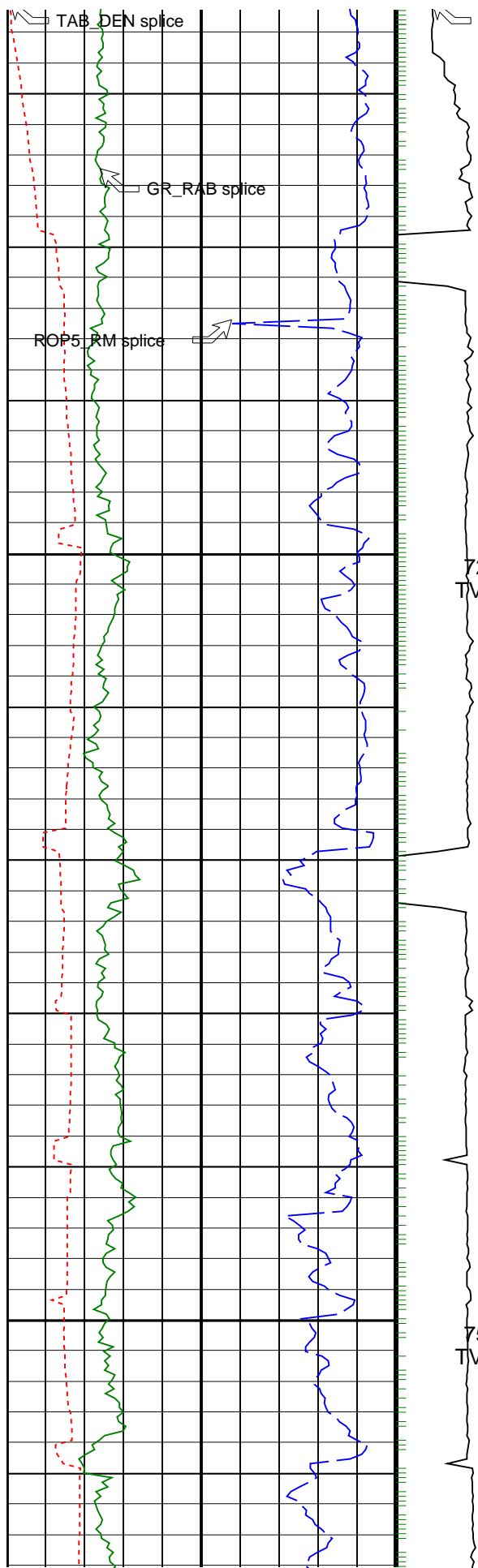
0.25

Casing Shoe @ 928m MD

625
VD

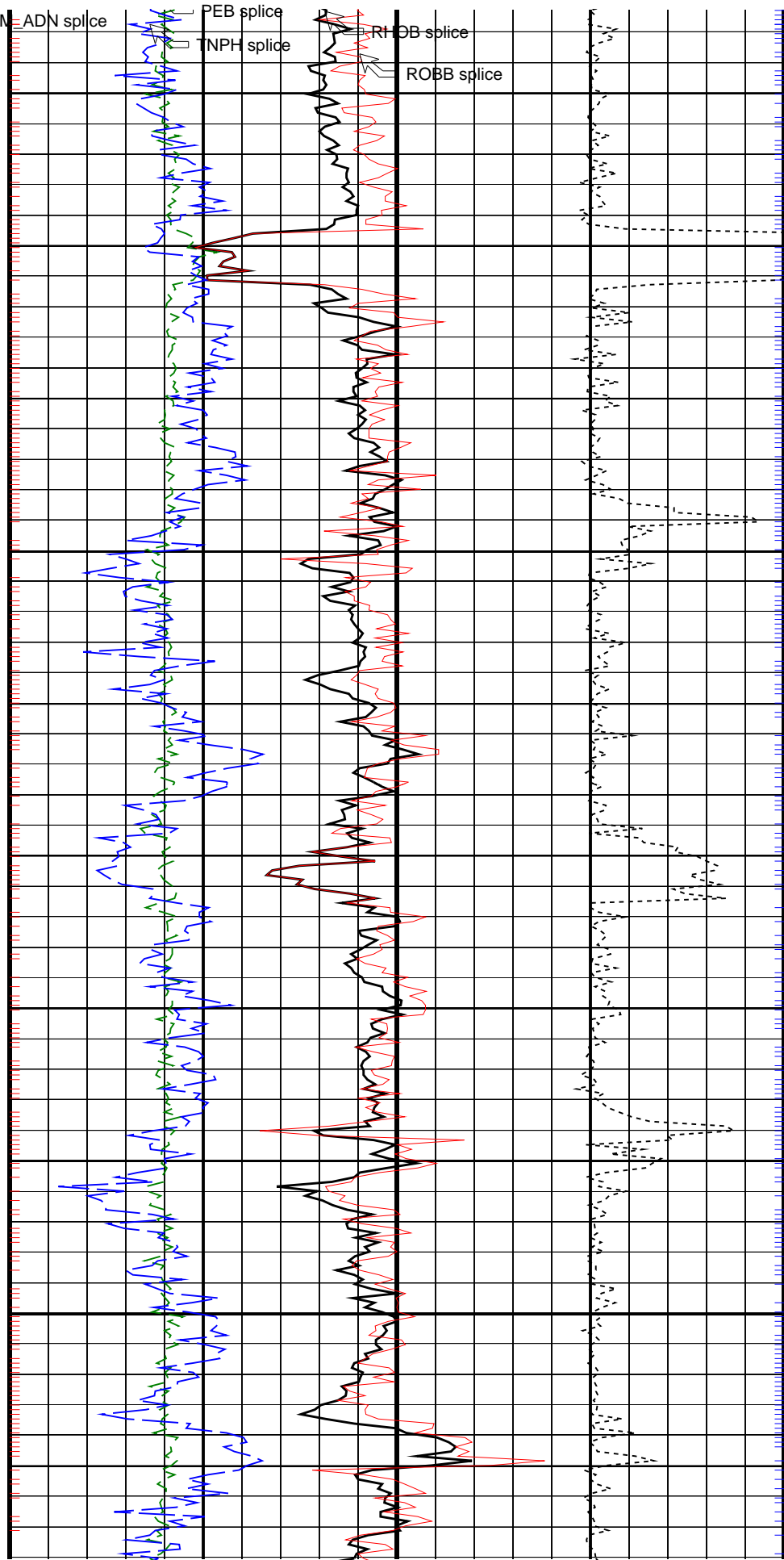
650
VD

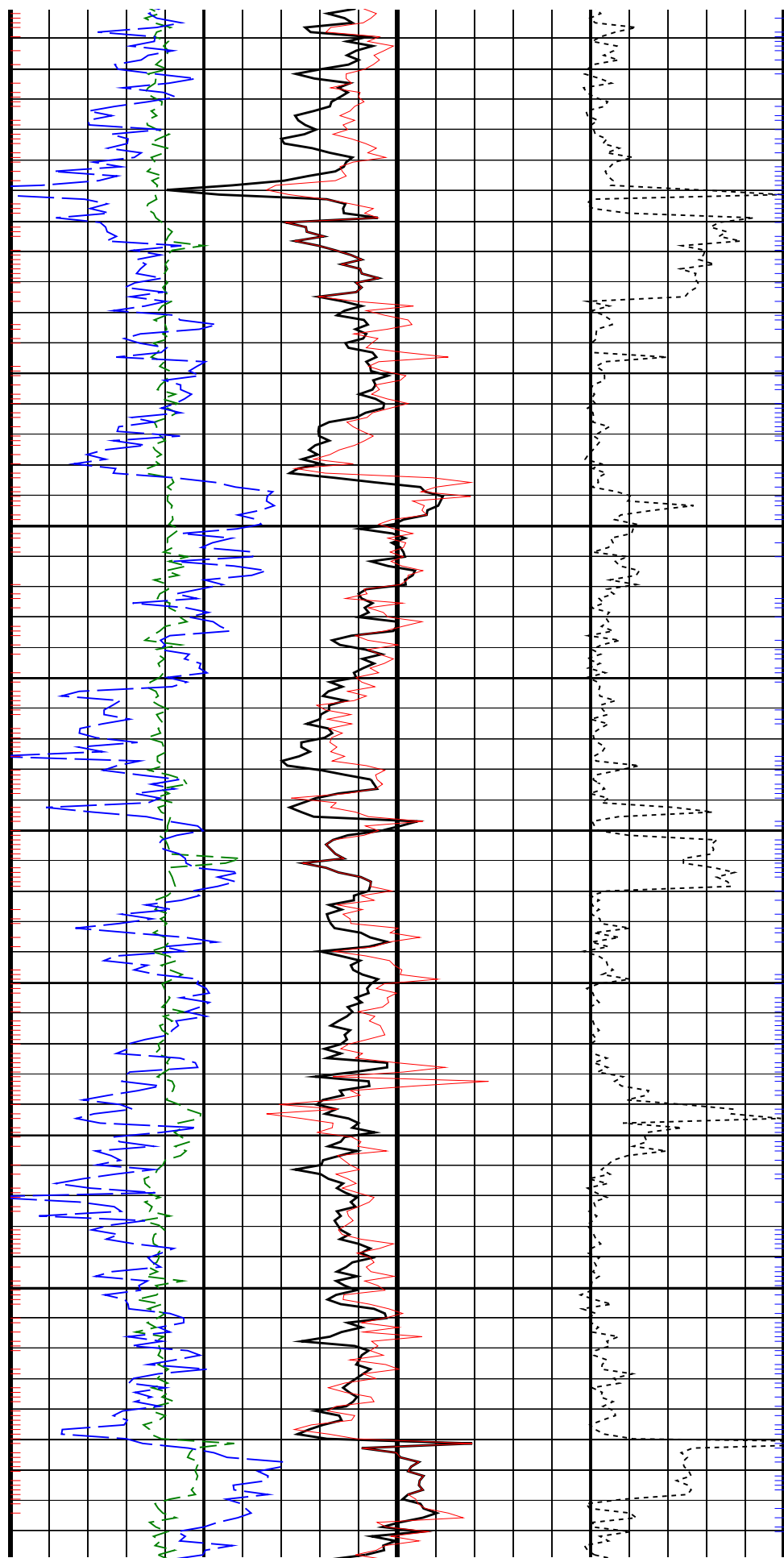
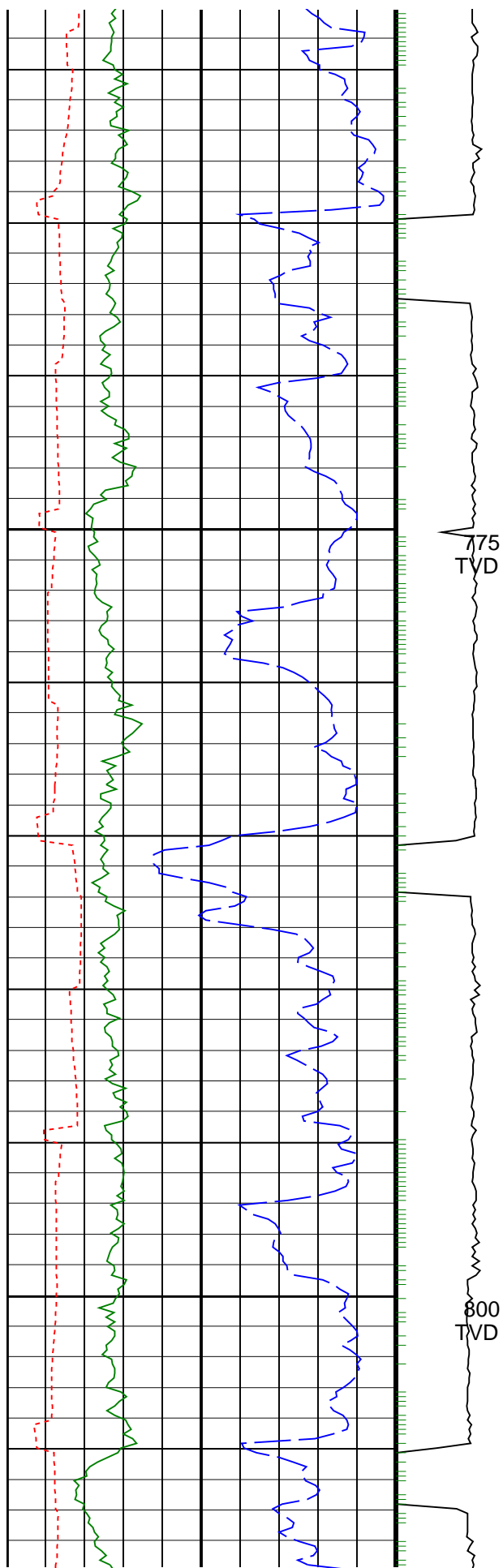


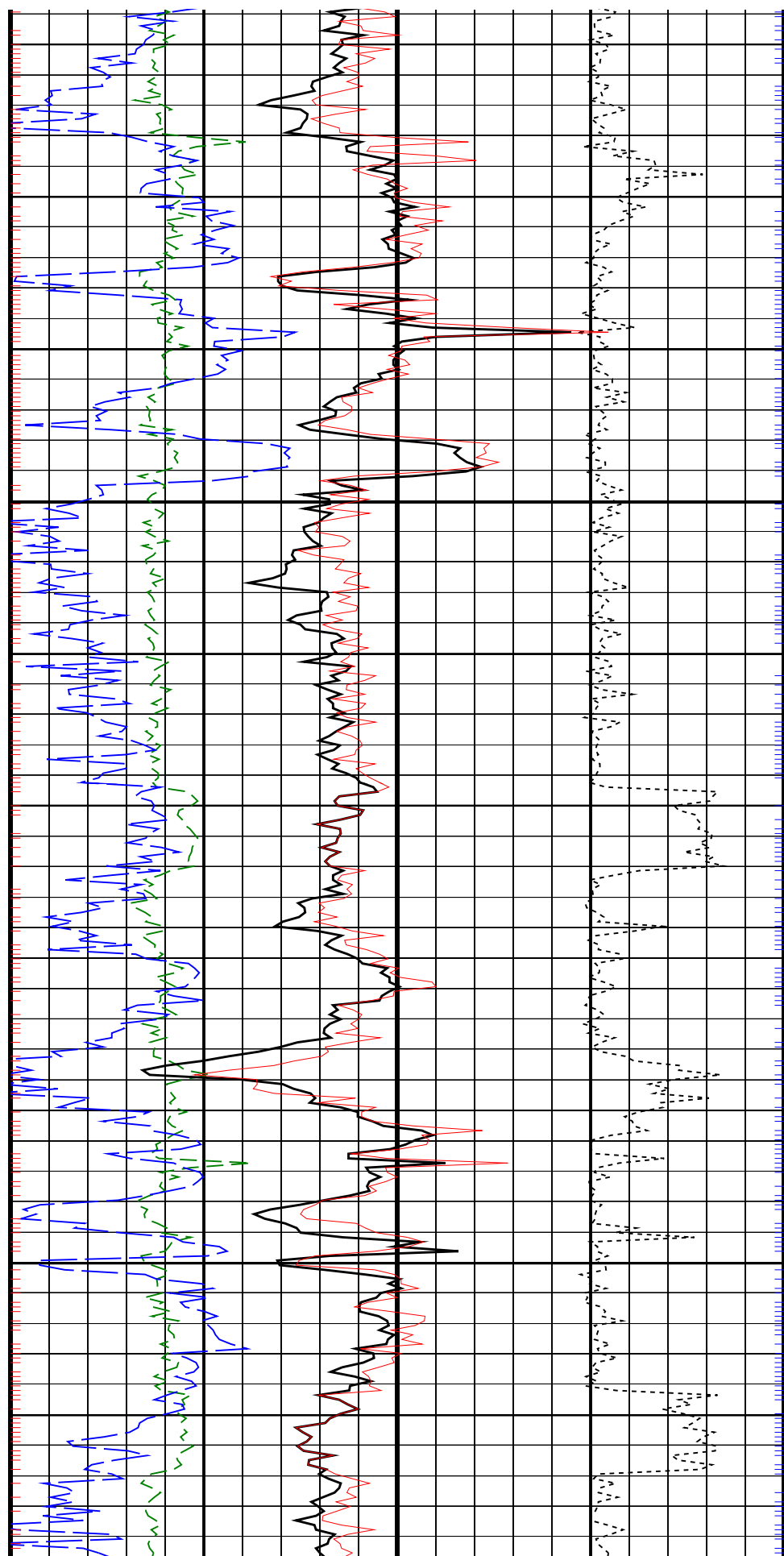
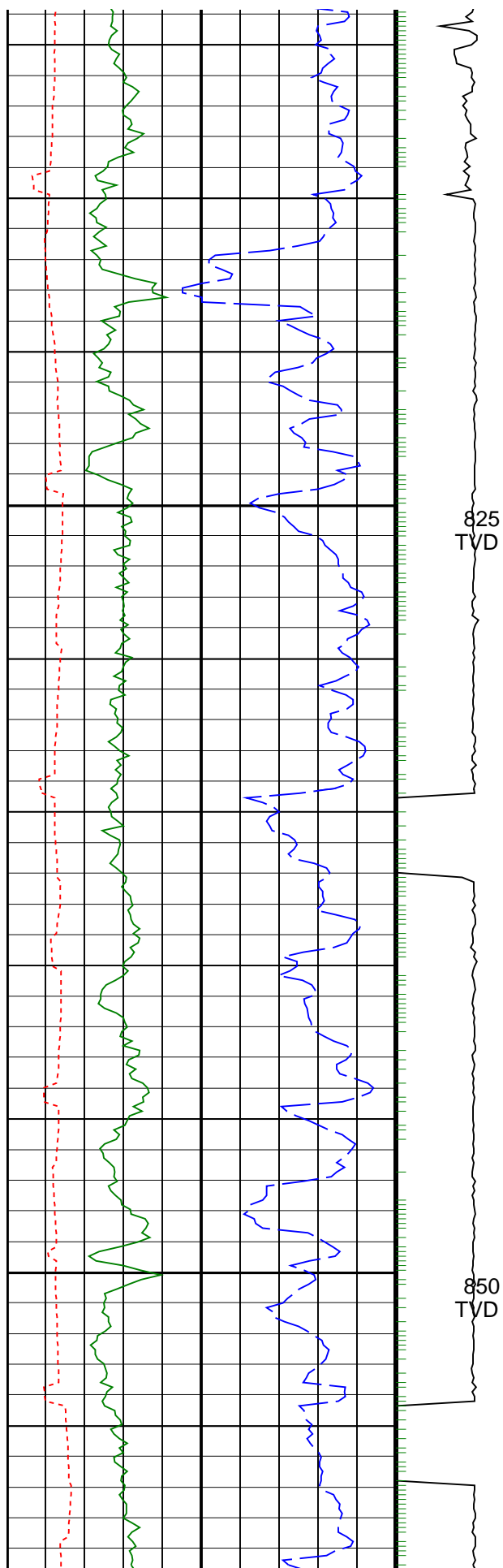


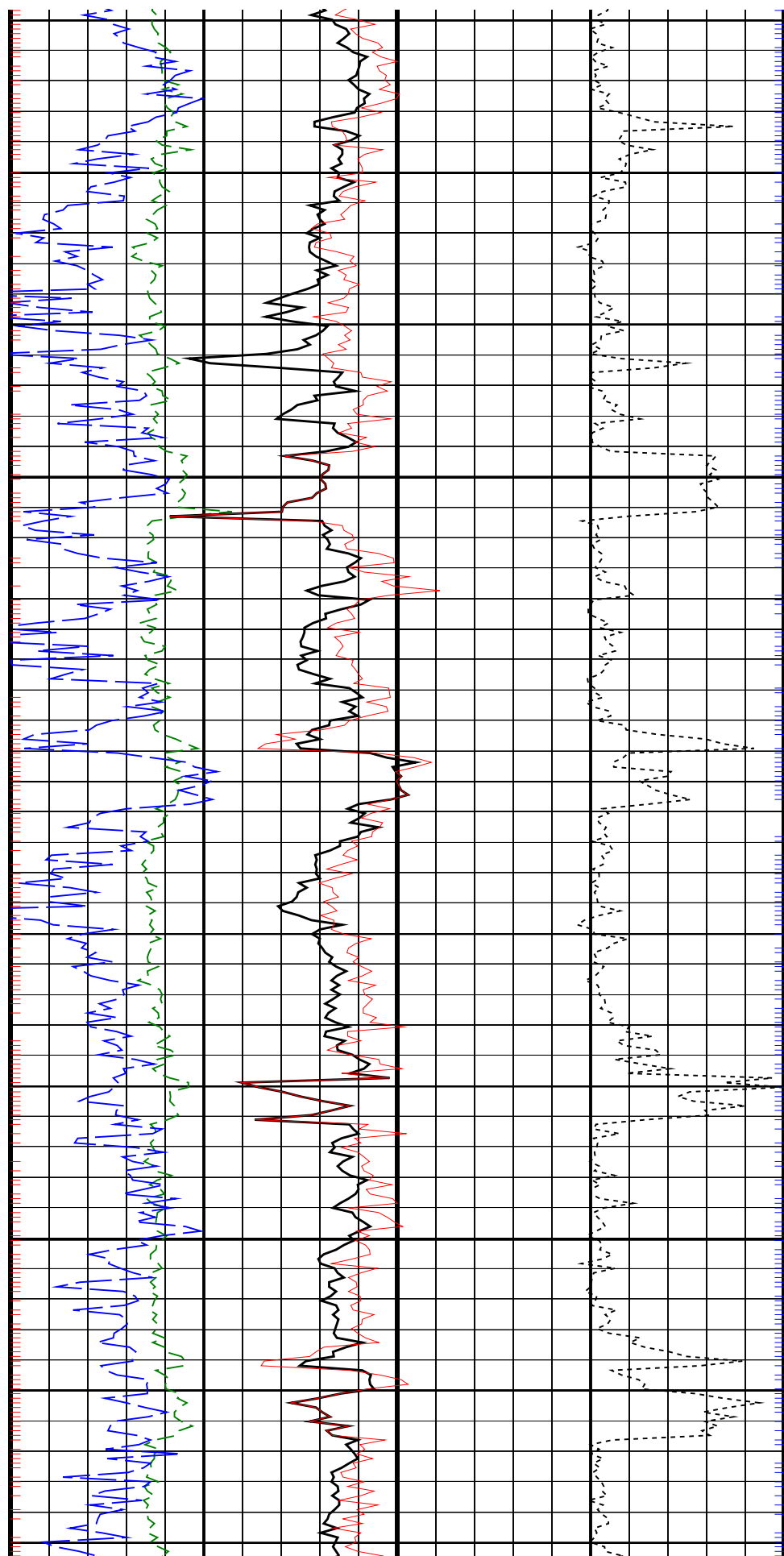
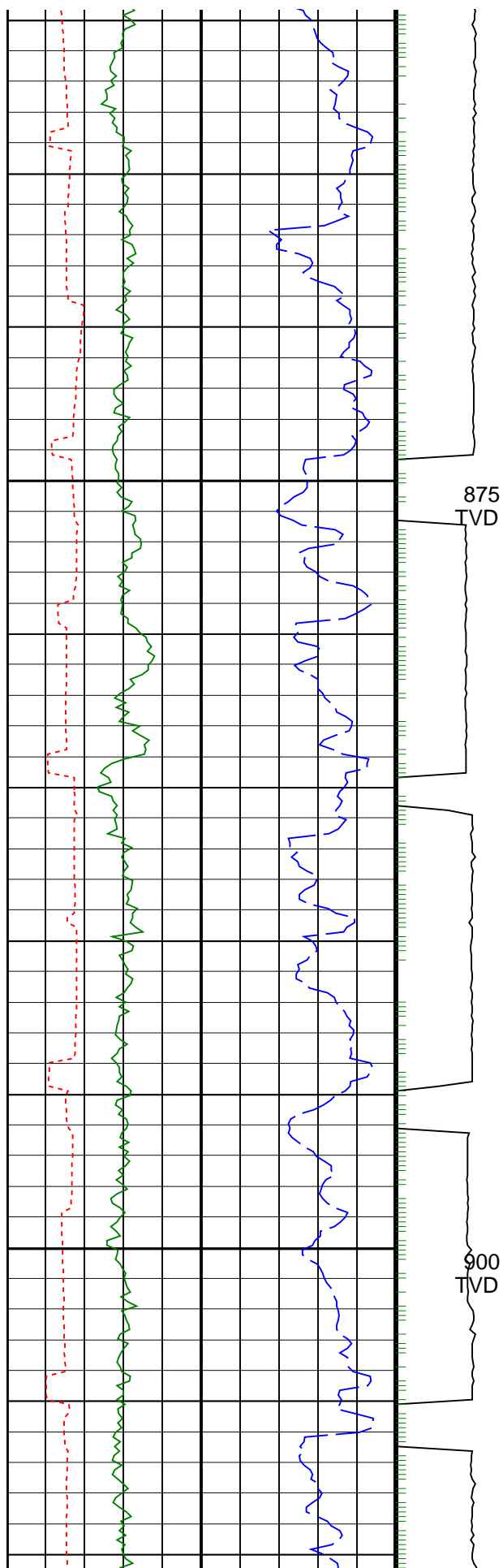
725
TVD

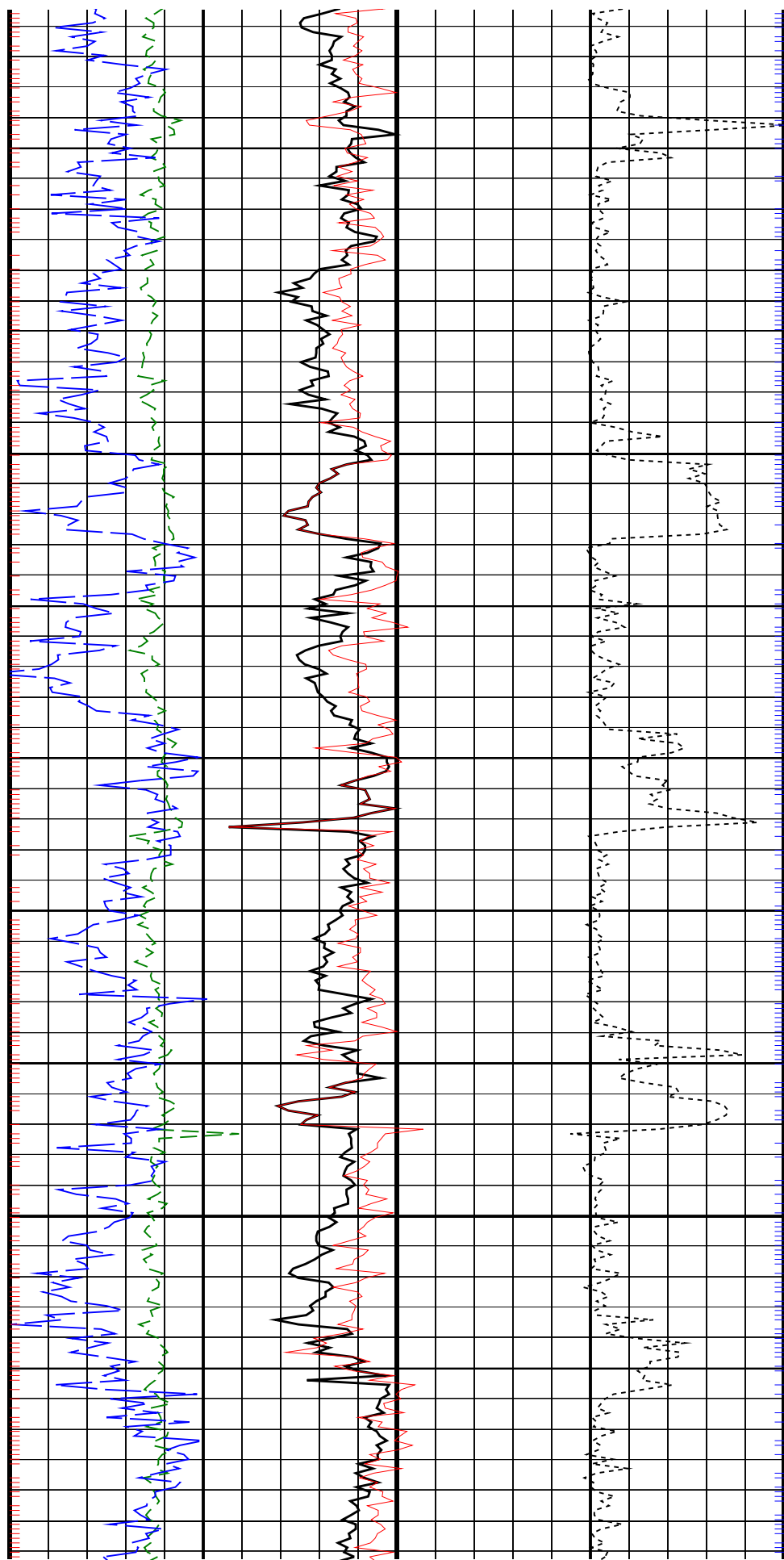
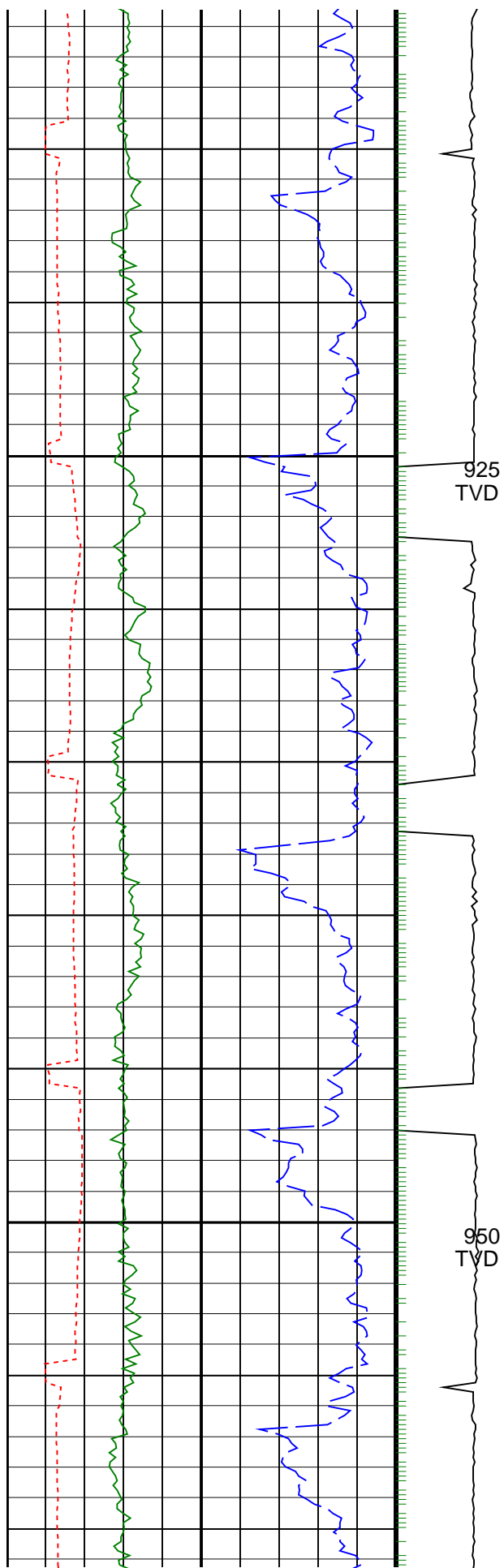
750
TVD

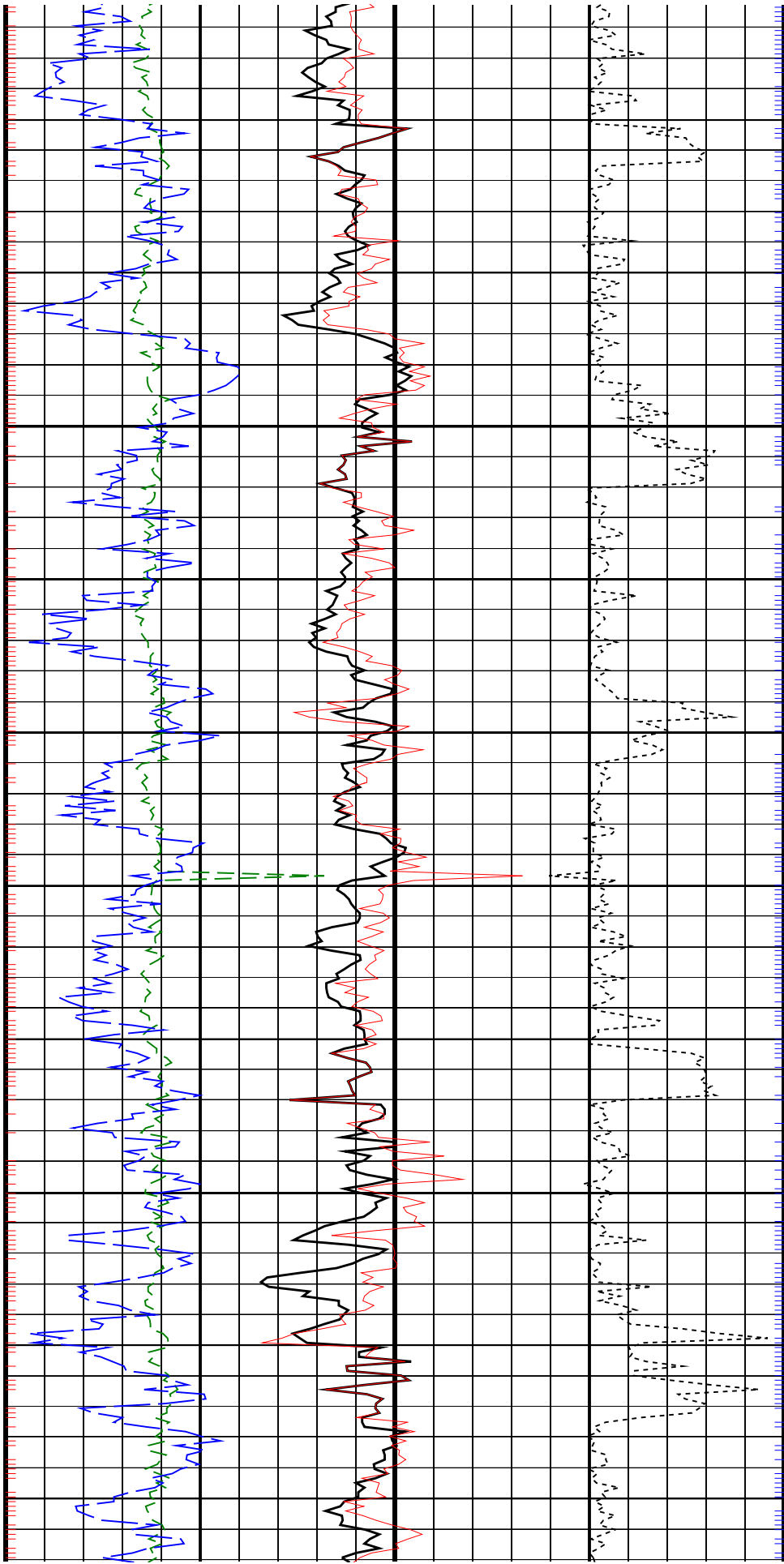
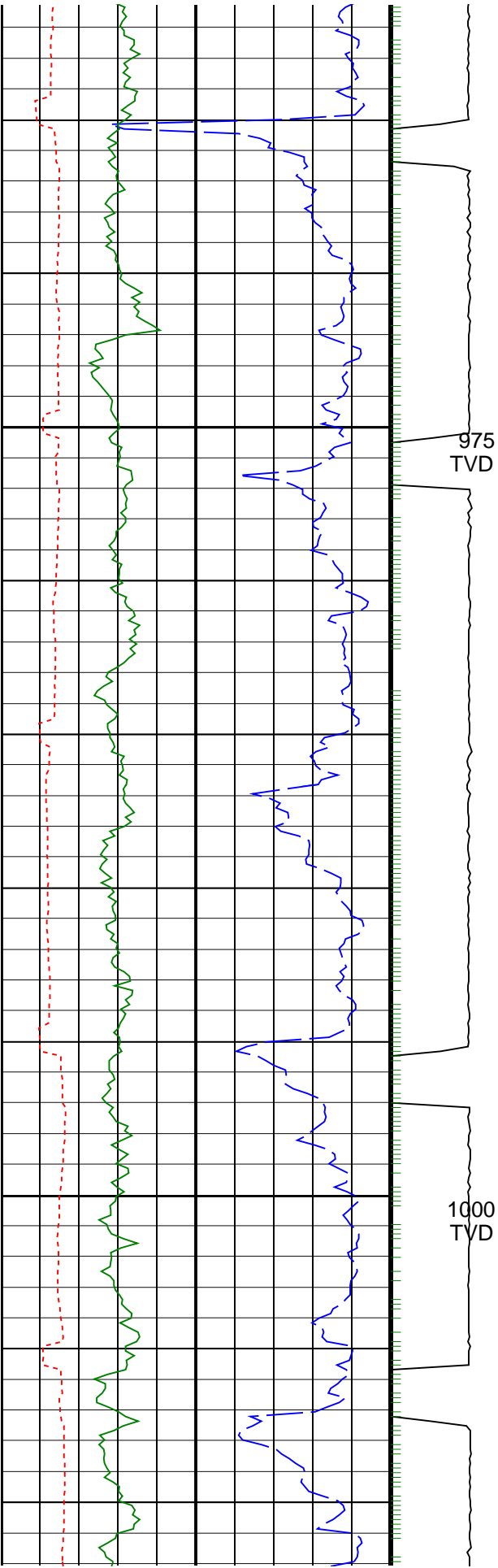


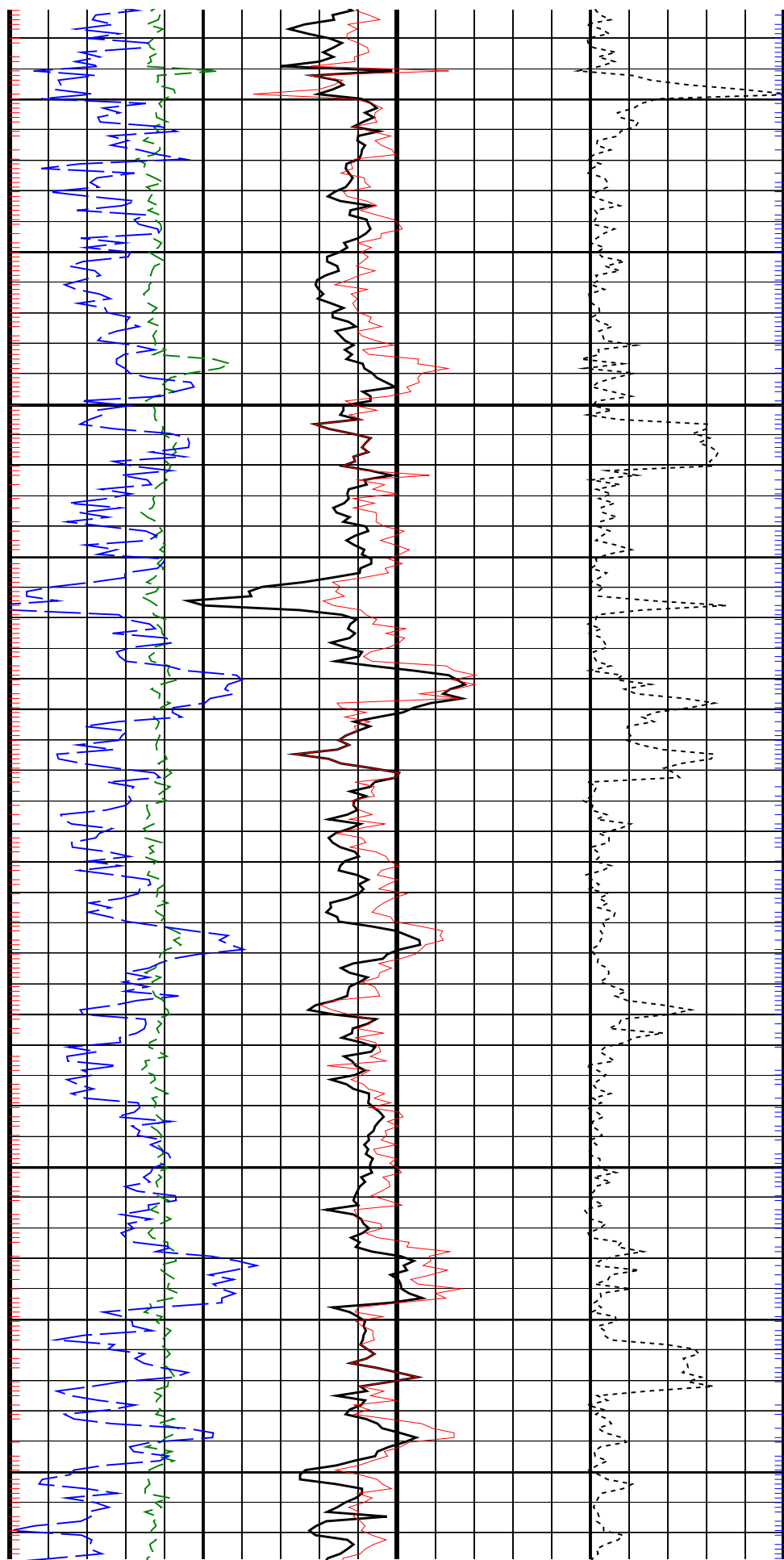
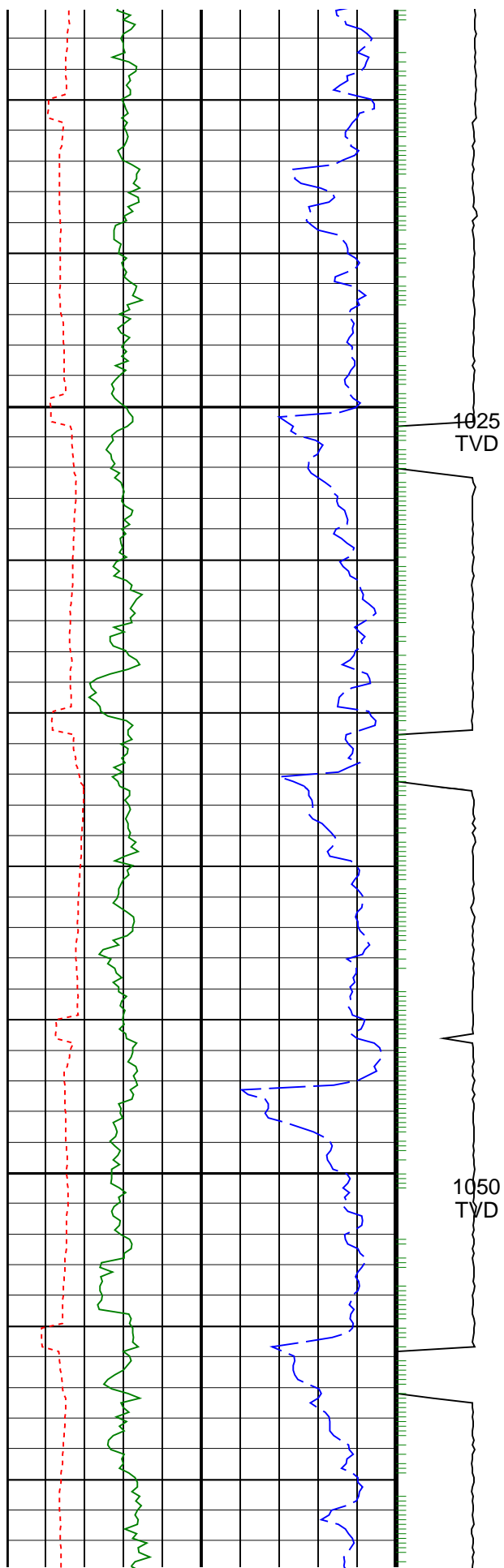


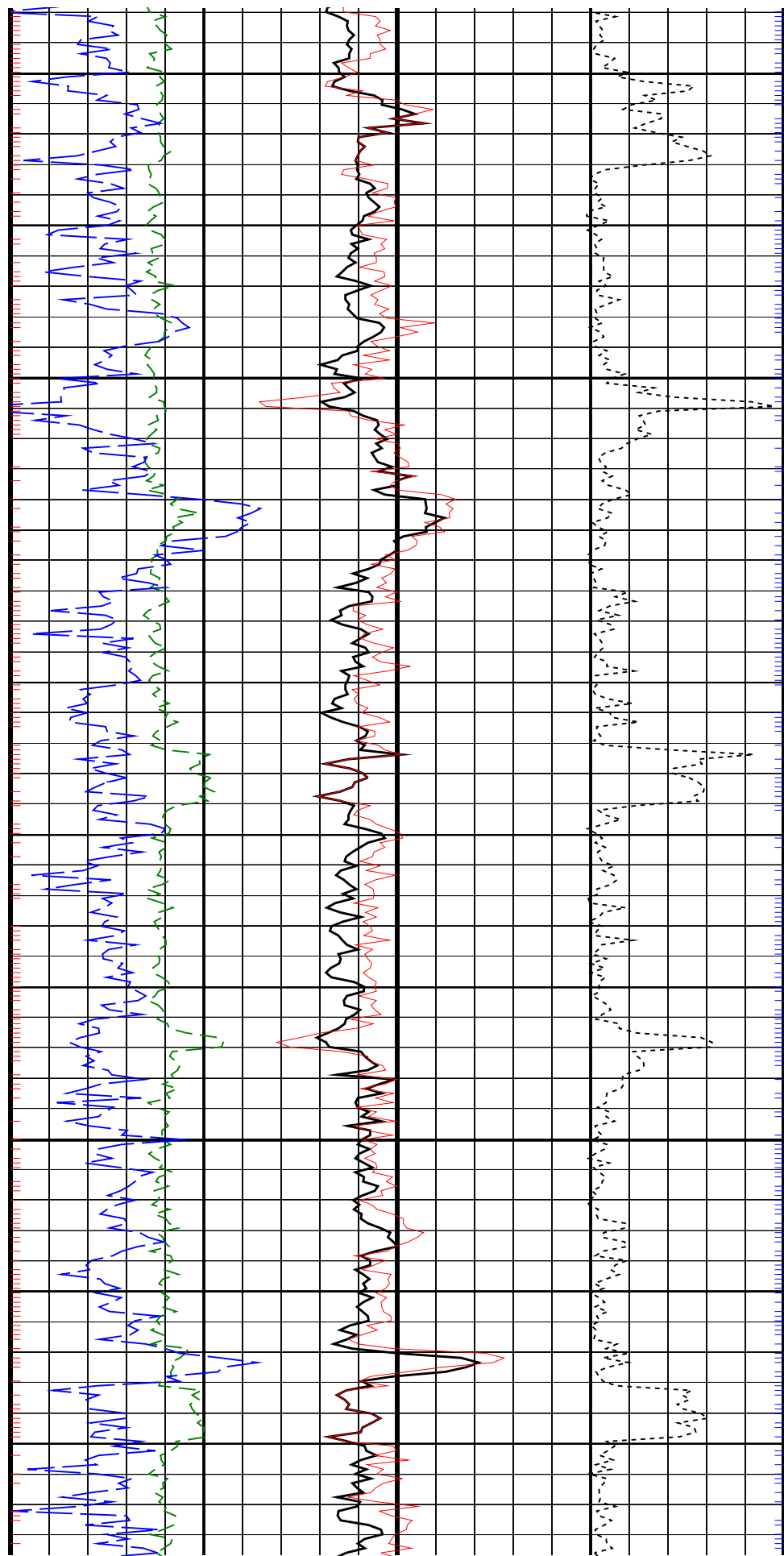
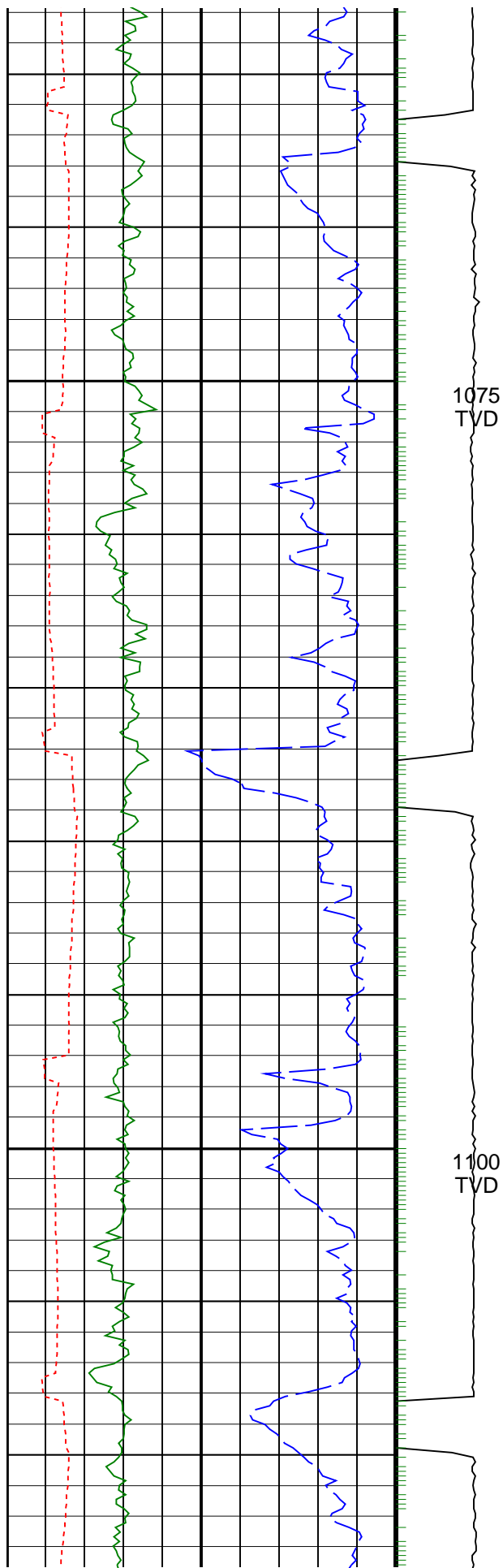


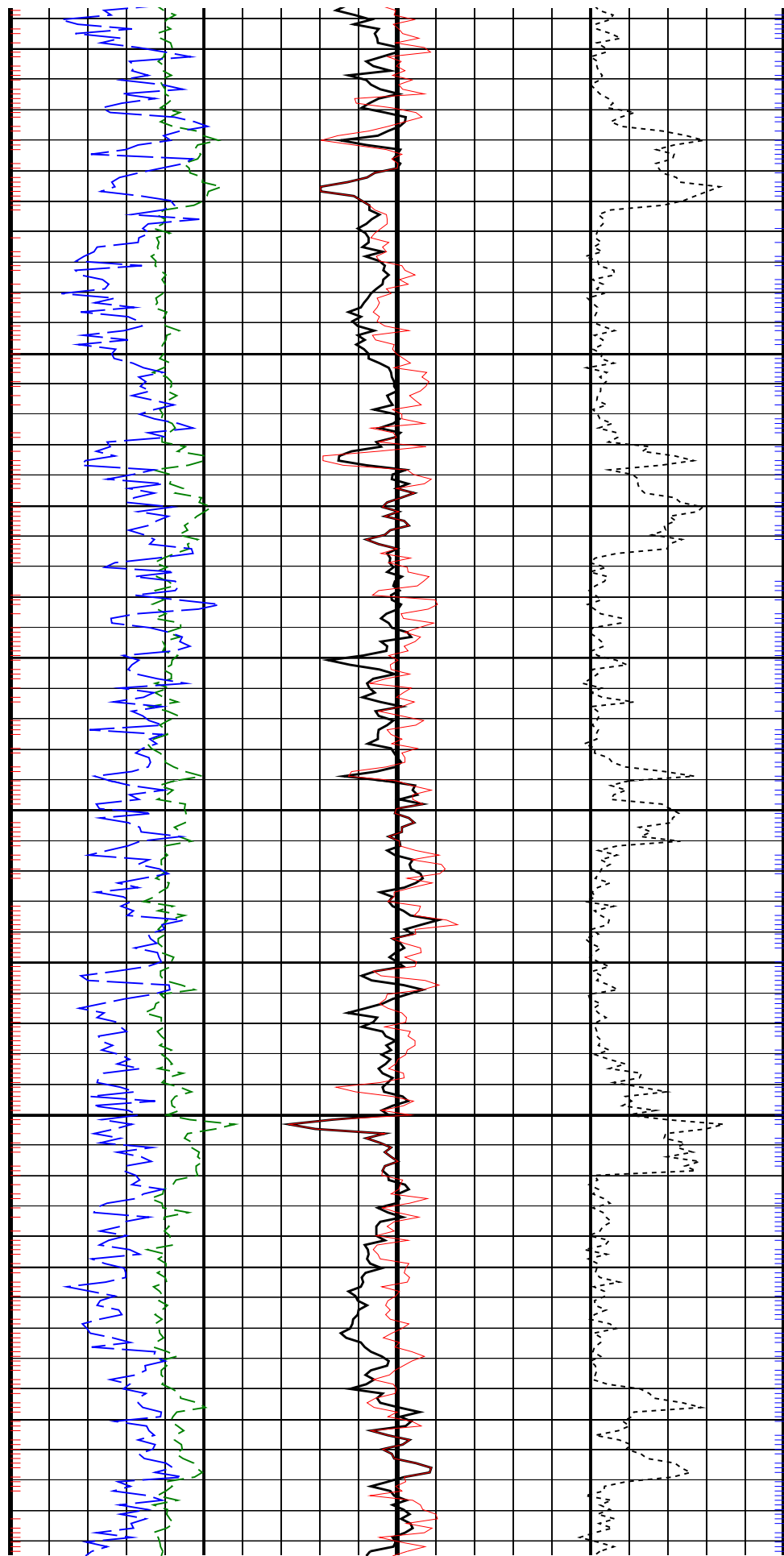
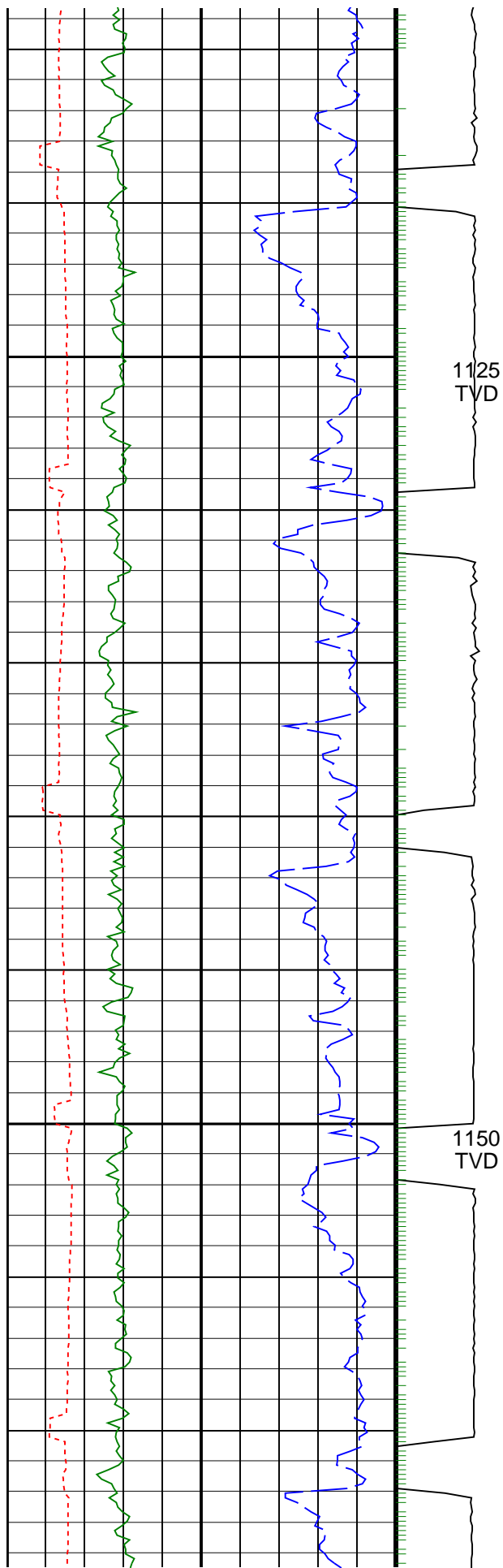


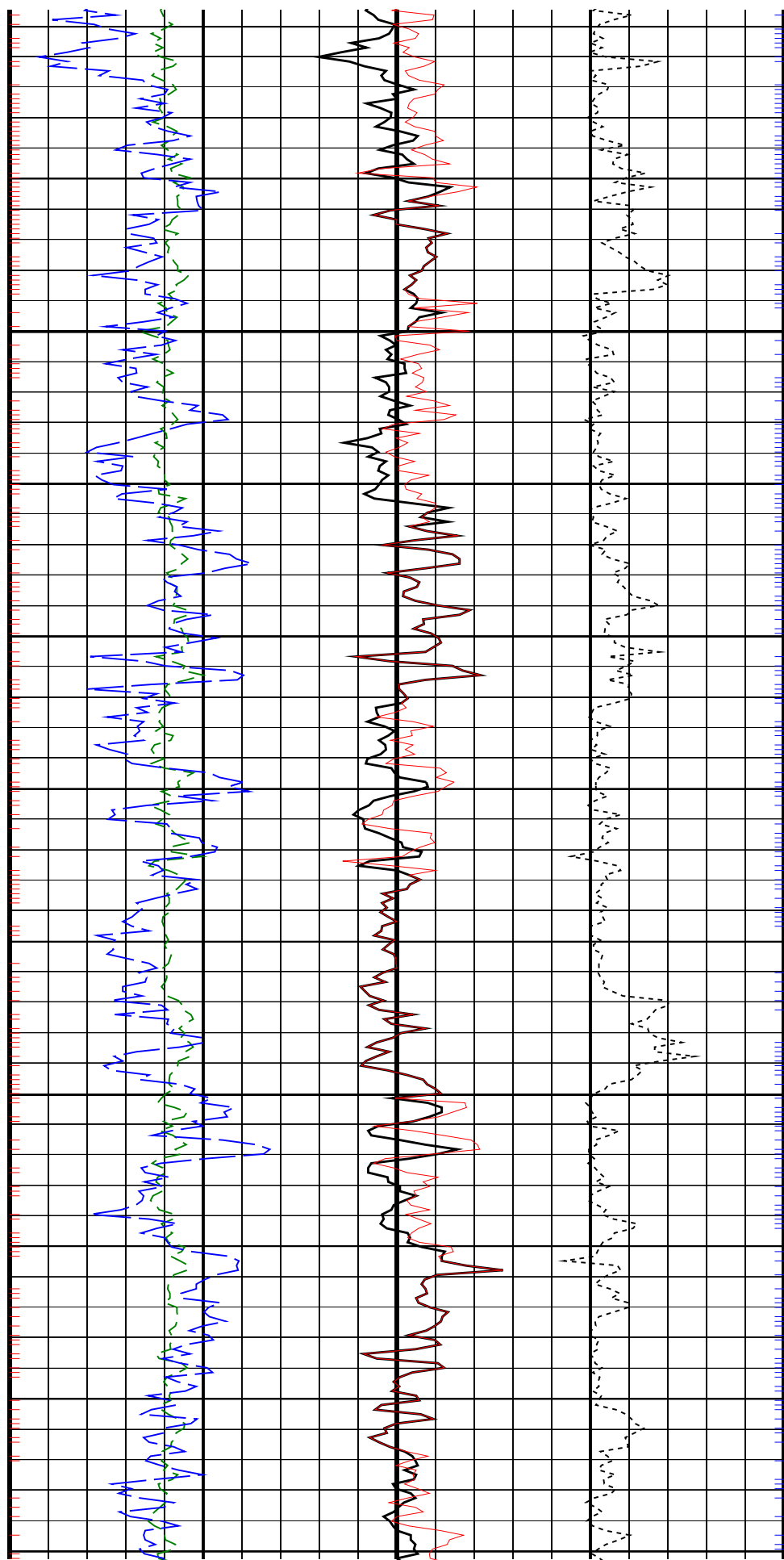
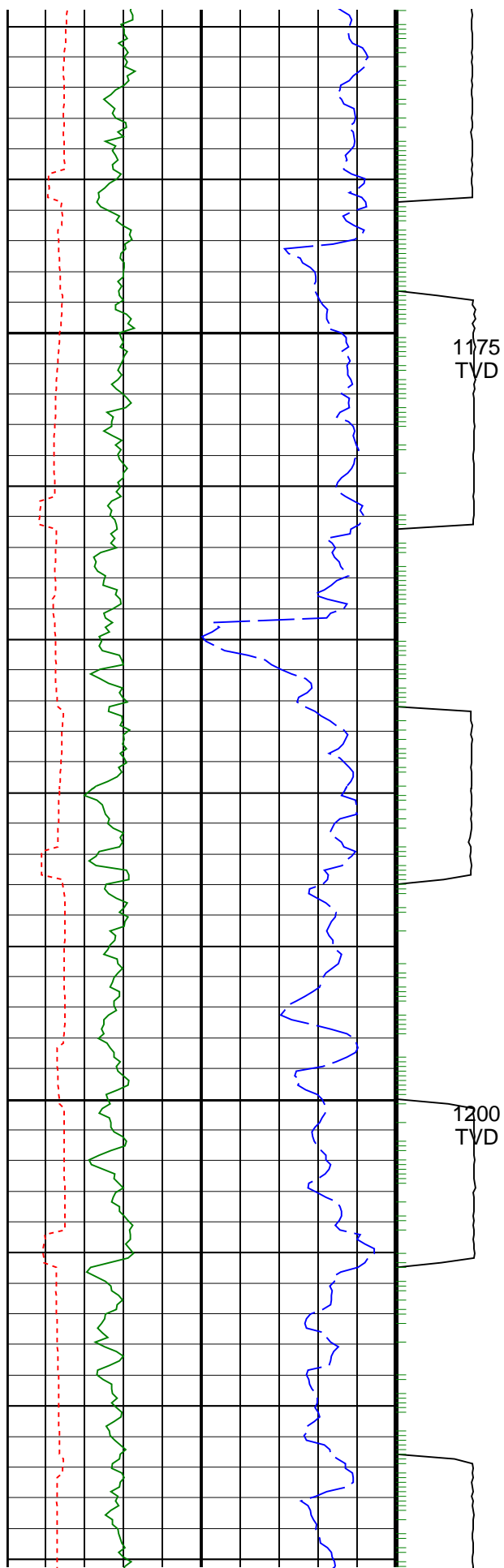


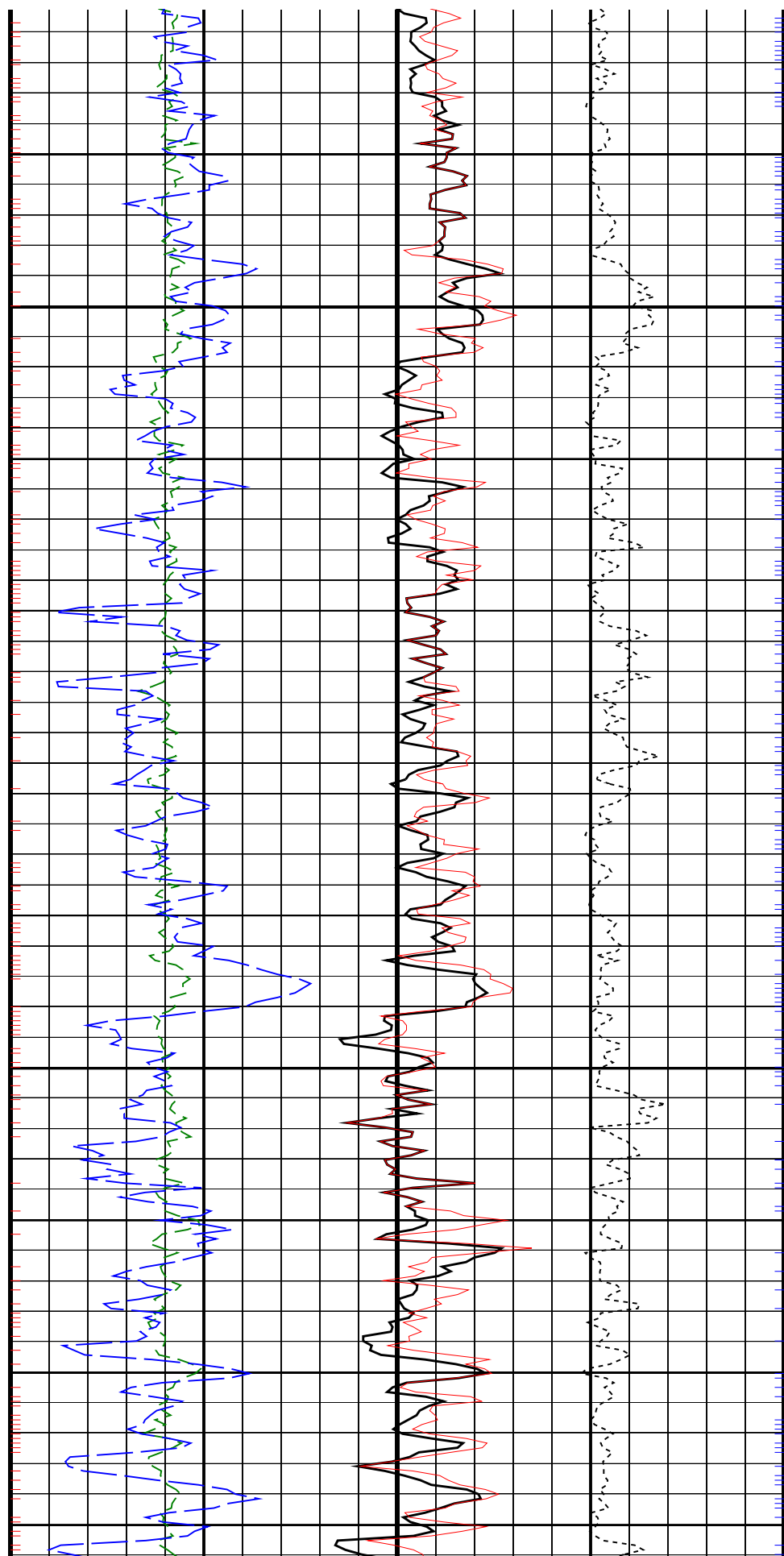
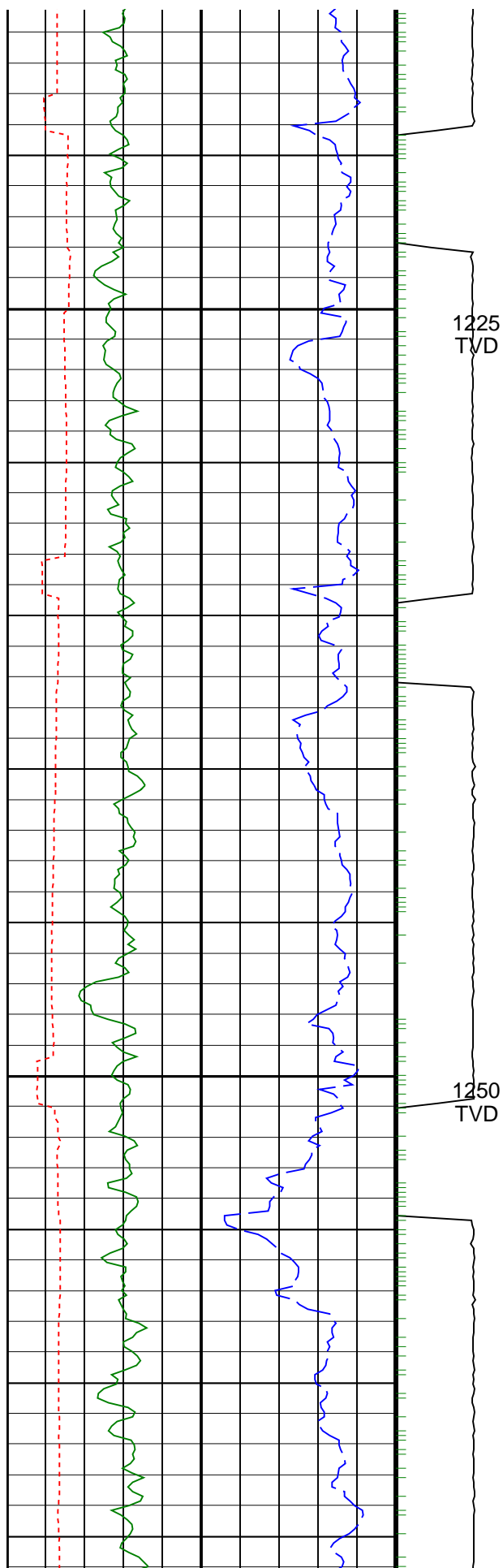


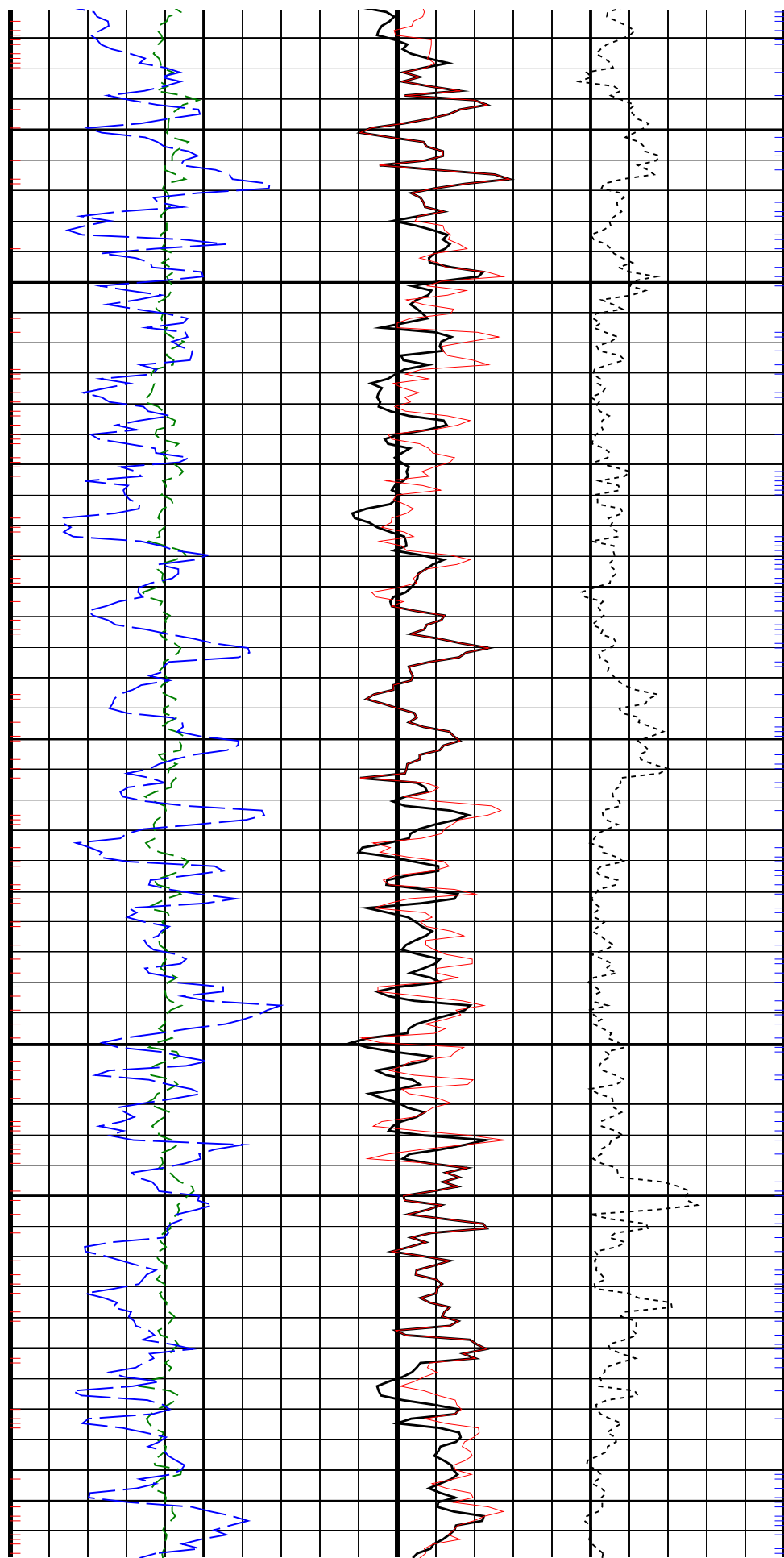
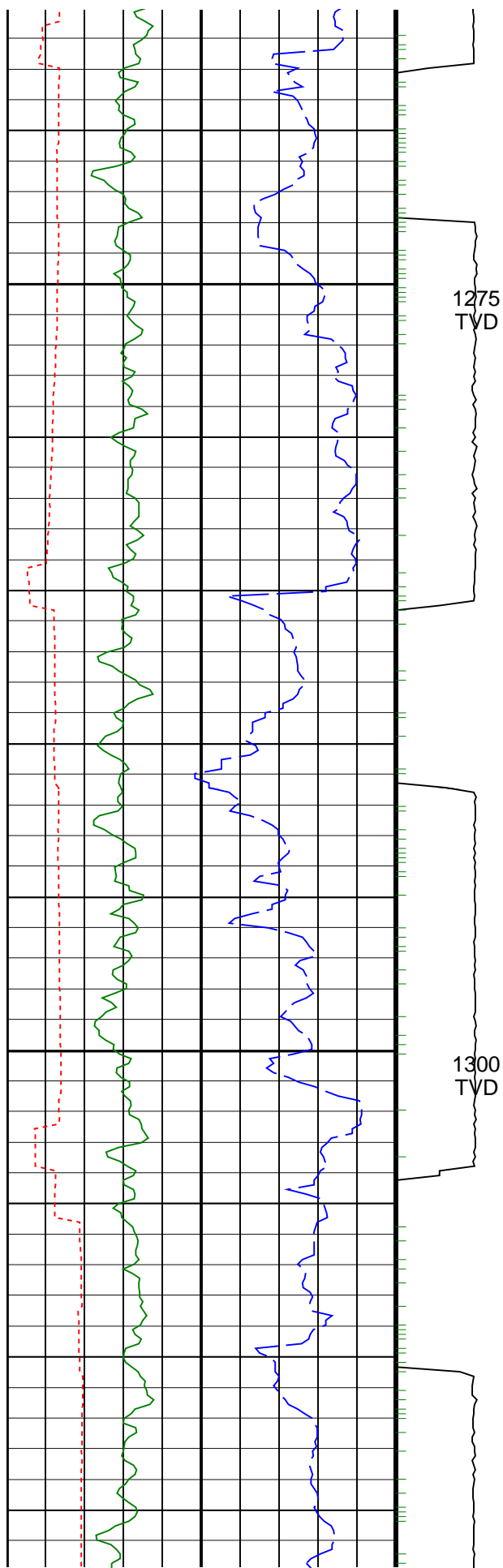


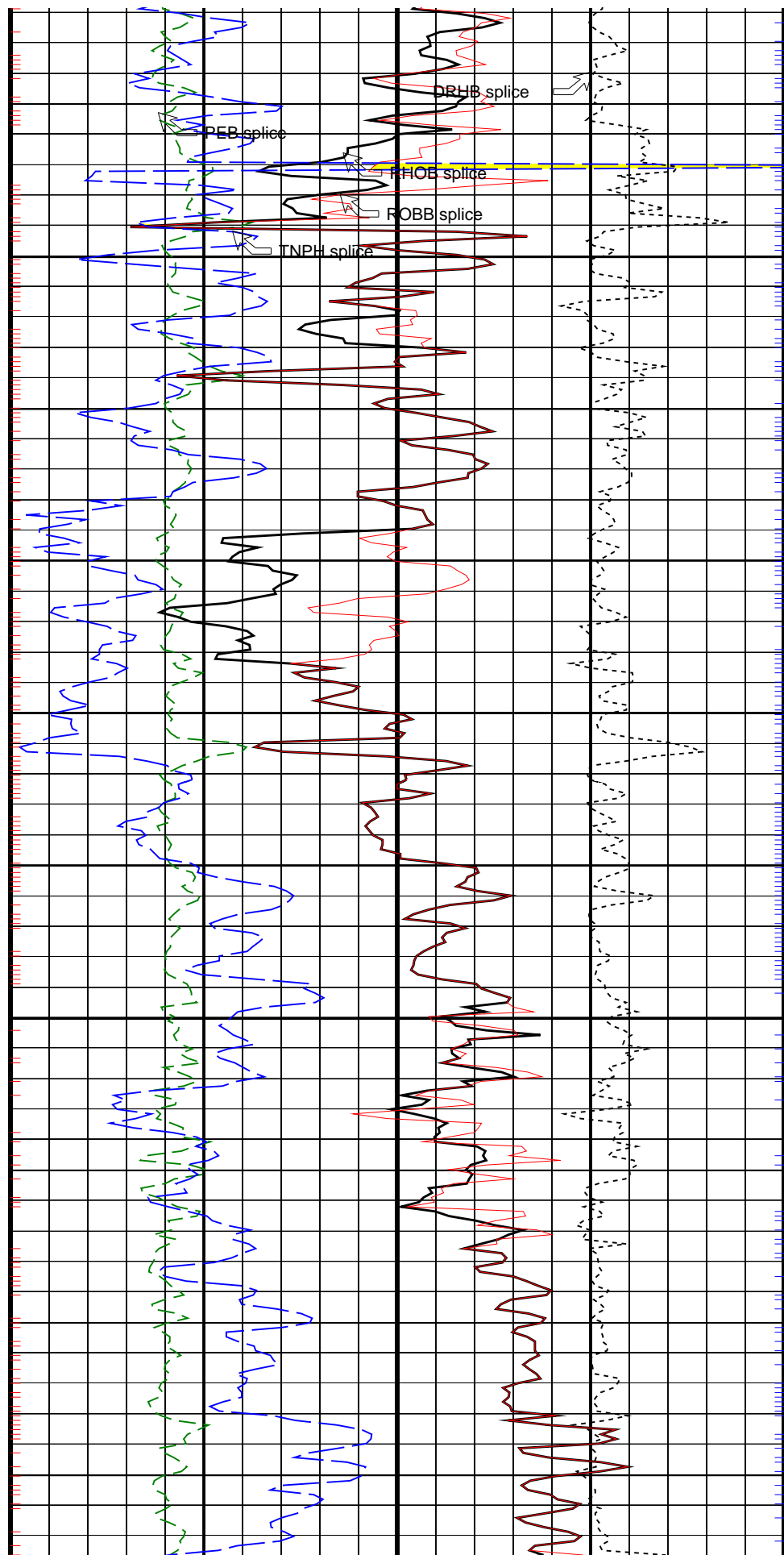
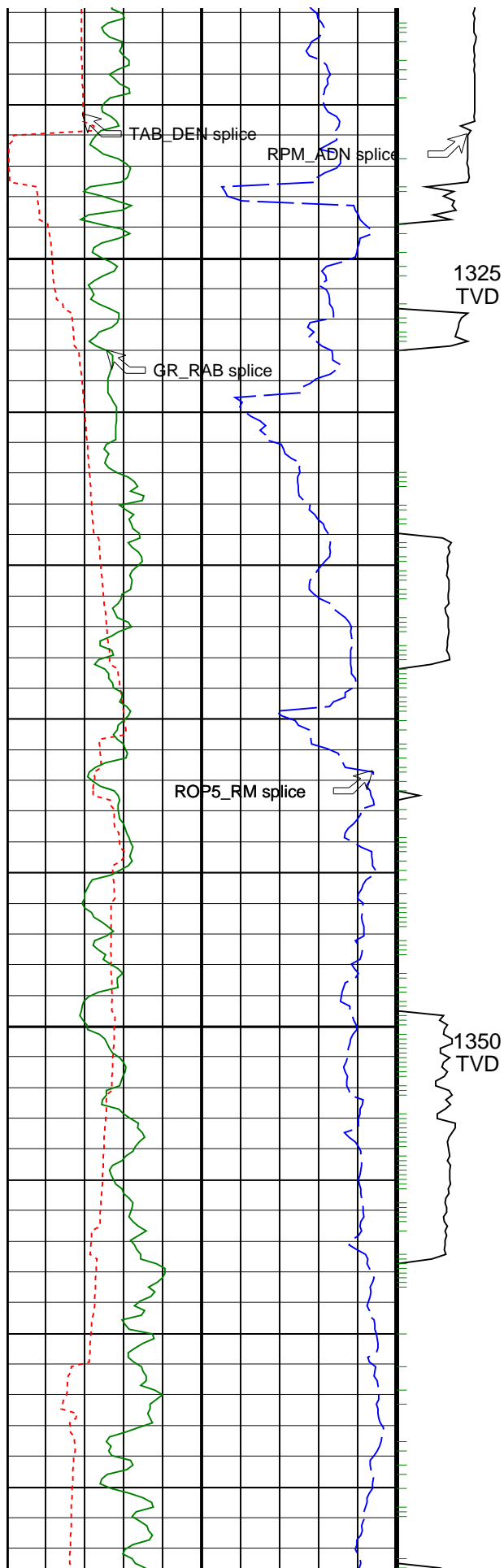


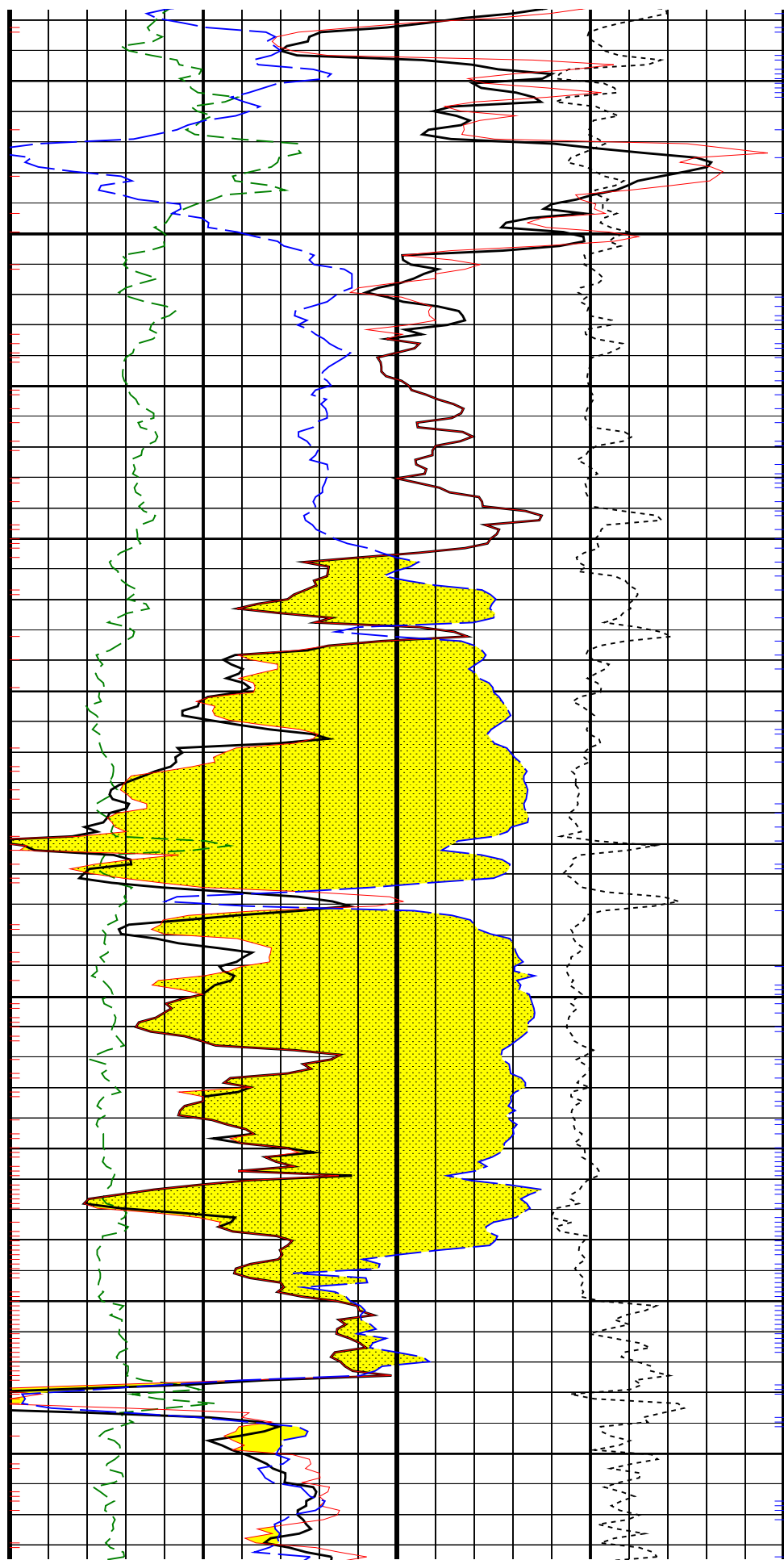
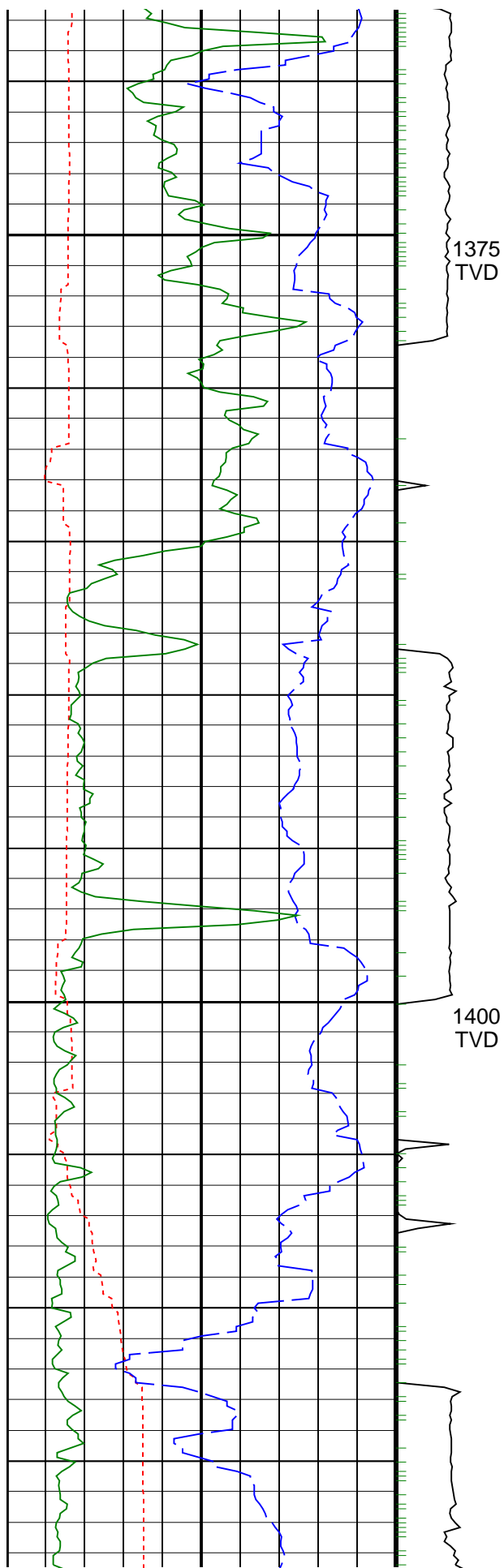


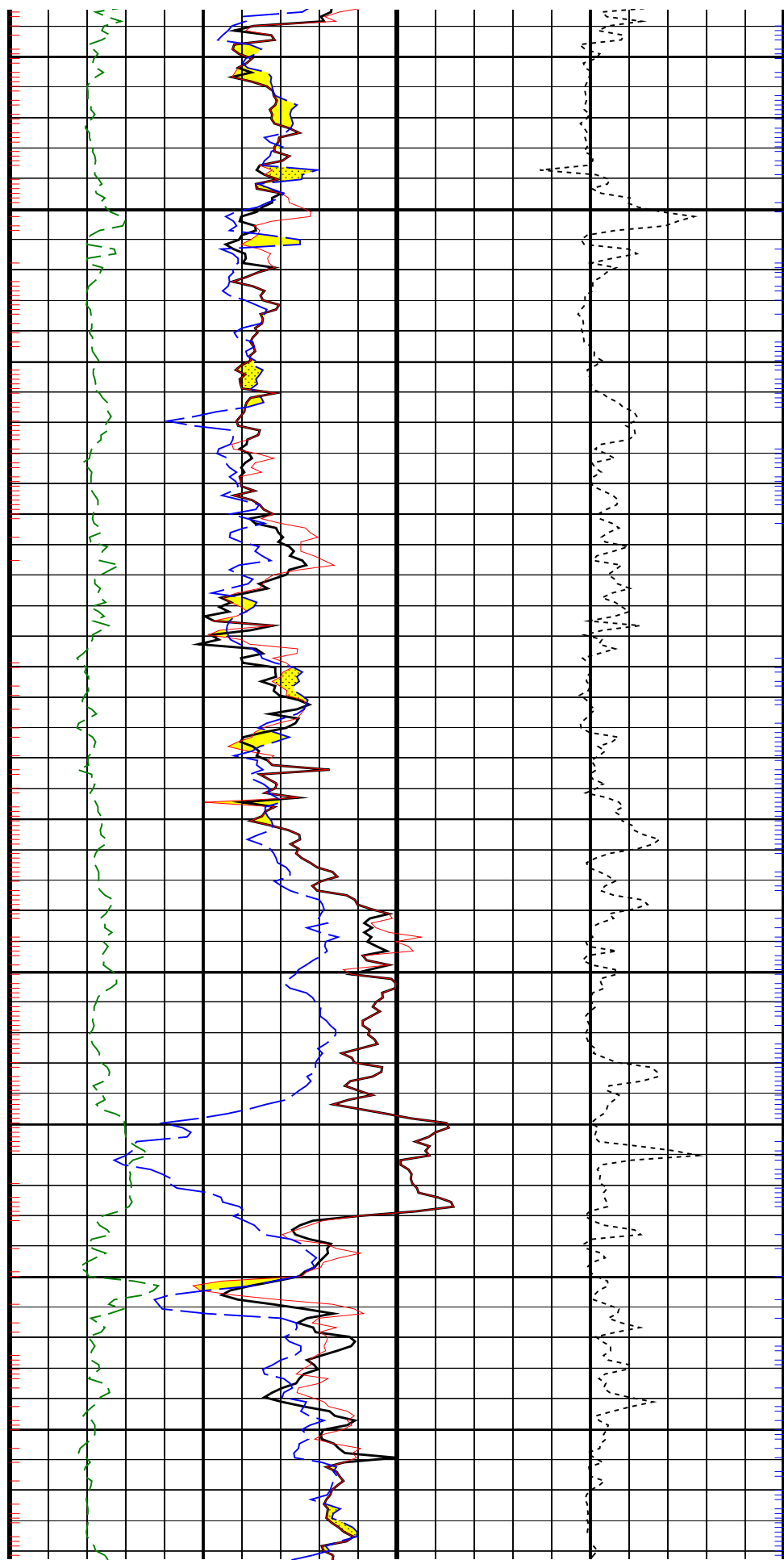
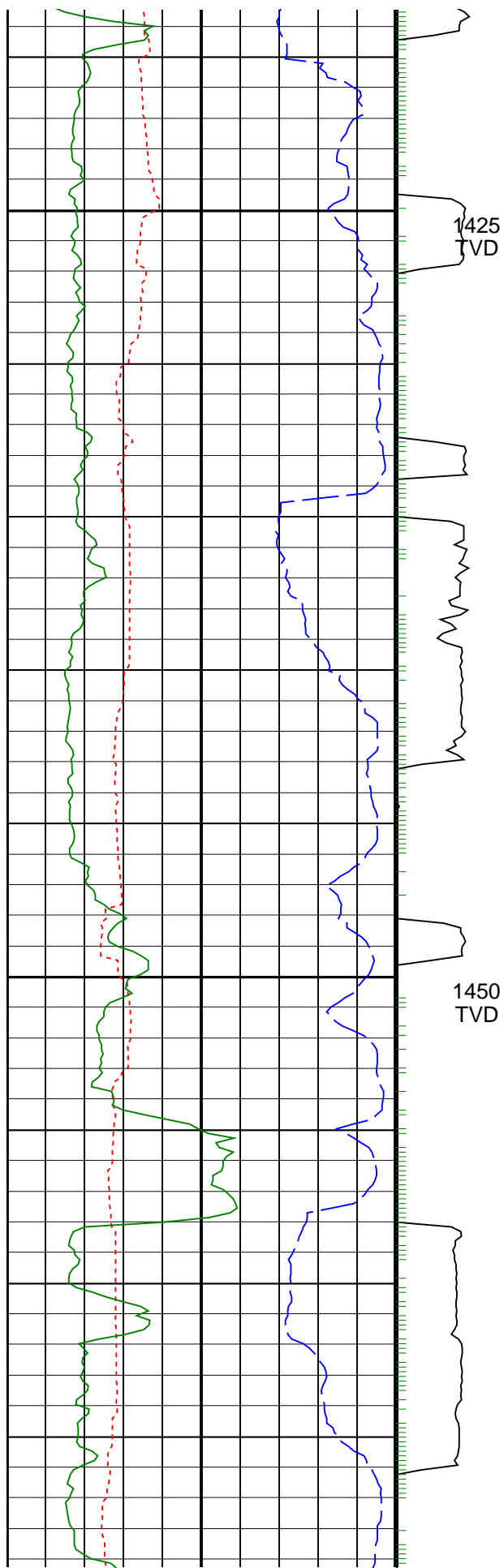


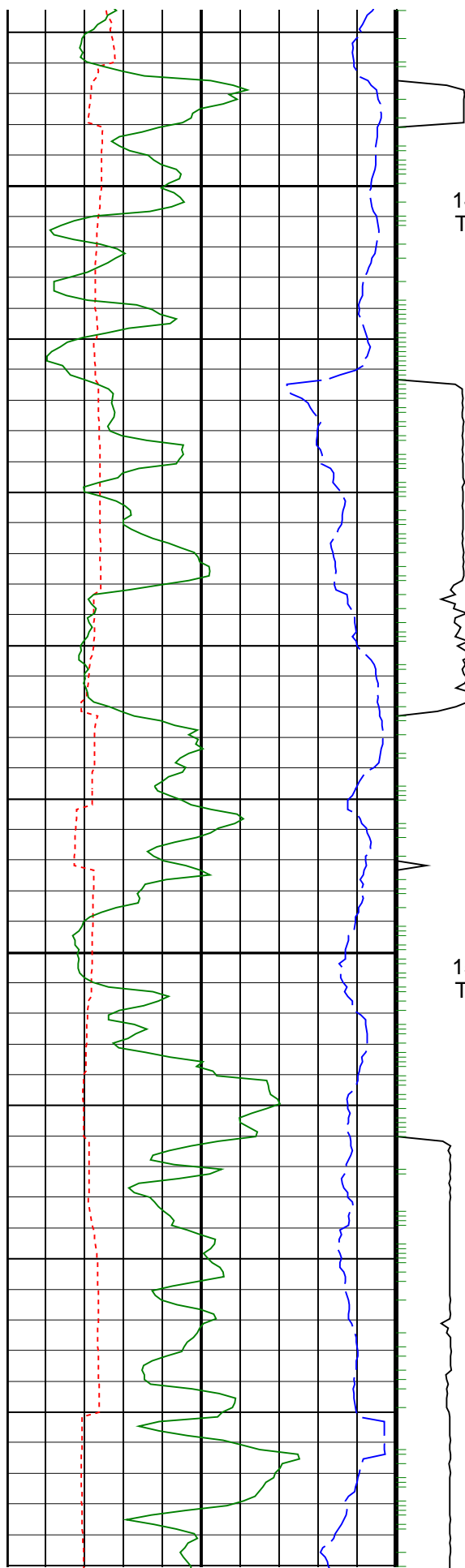






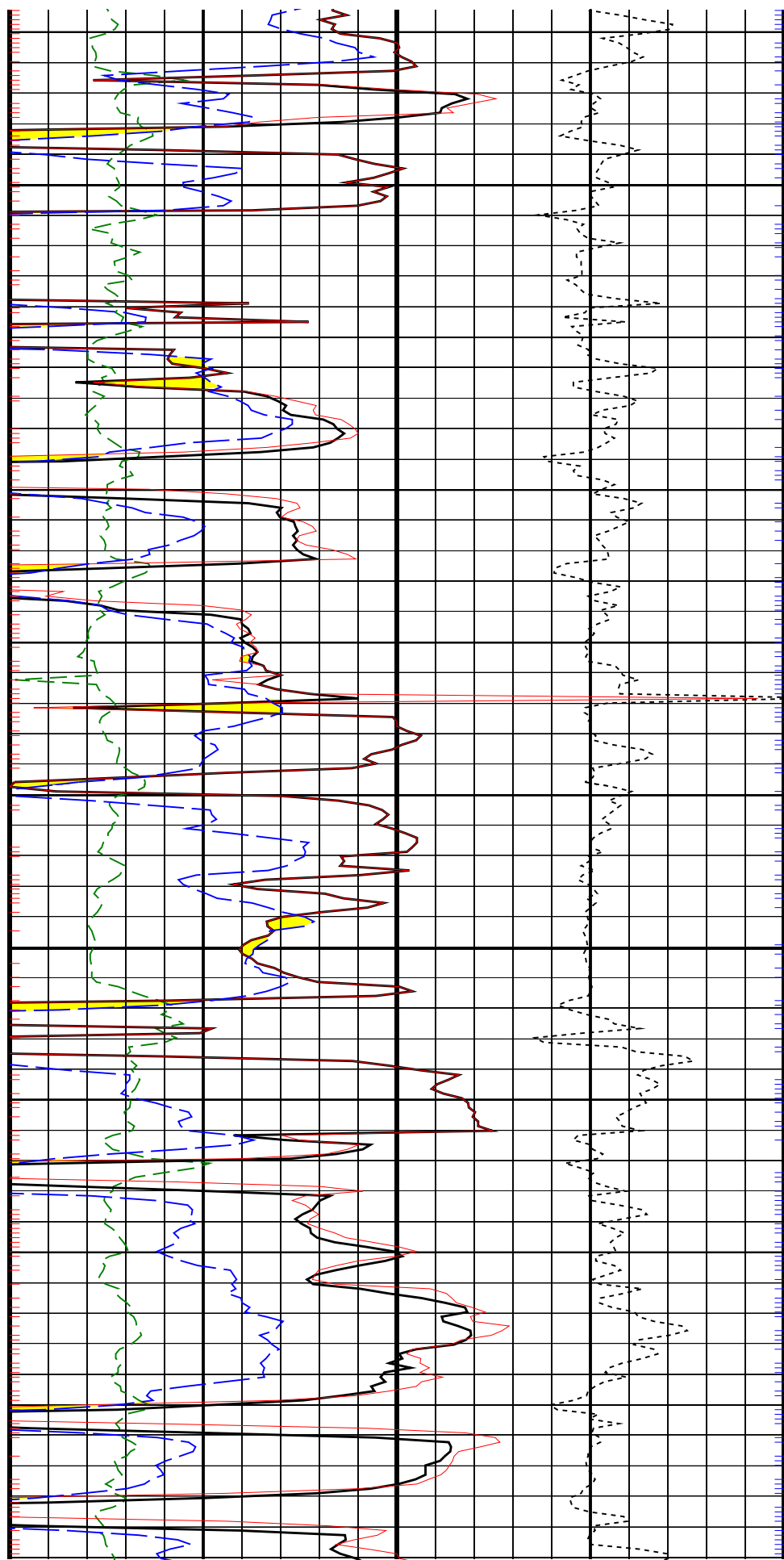


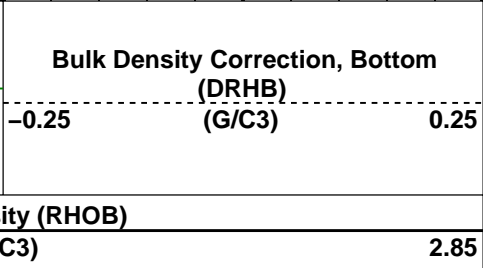
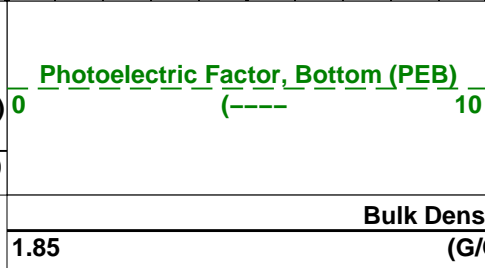
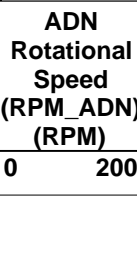
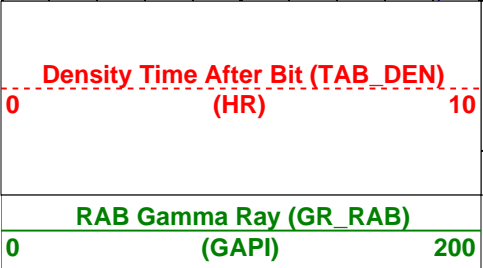
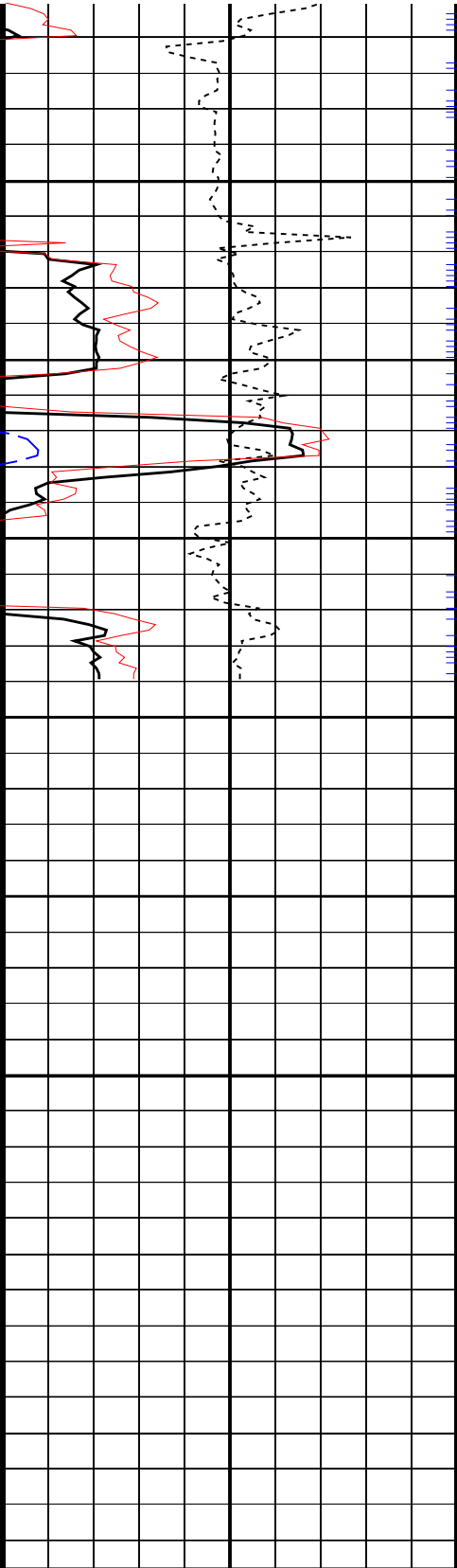
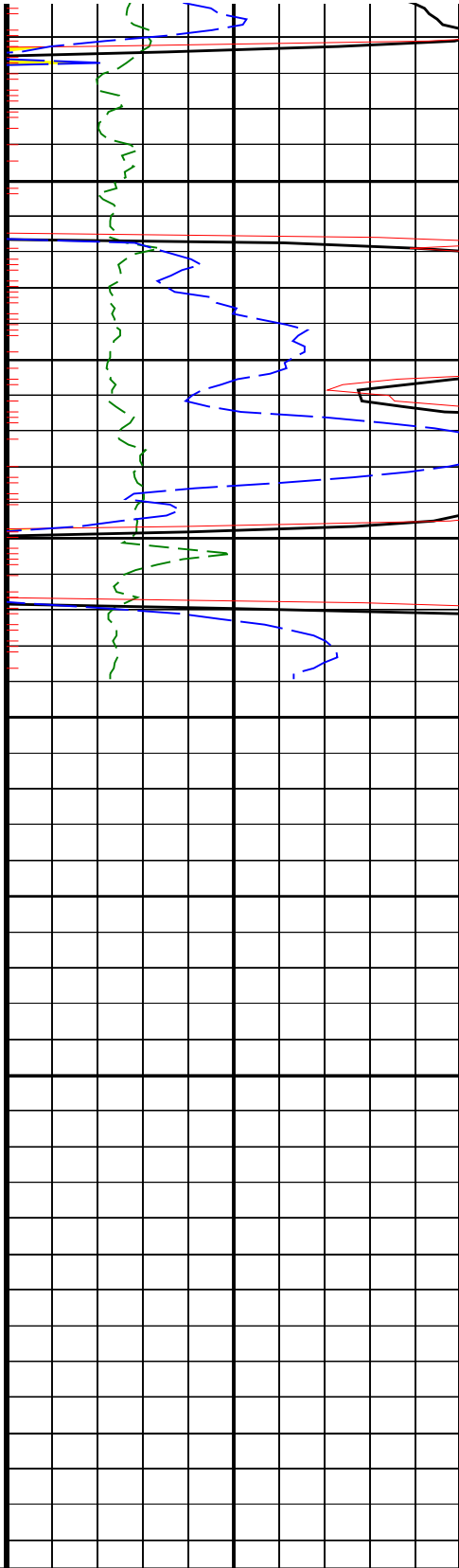
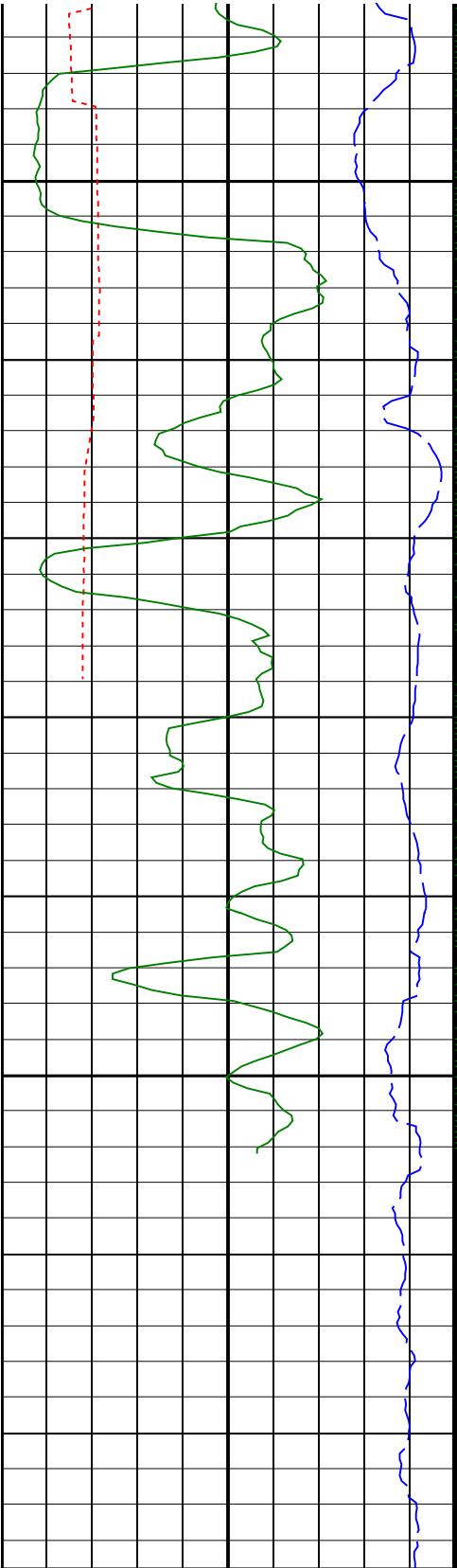




1475
TVD

1500
TVD





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

Bulk Density, Bottom (ROBB)		
1.85	(G/C3)	2.85
Thermal Neutron Porosity (TNPH)		
45	(PU)	-15
LWDSpareArea From ADN/ROBB/DEPTH to ADN/TNPH/DEPTH		

PIP SUMMARY		
Density Ticks, 0.1 ft		Neutron Ticks, 0.1 ft
Gamma Ray Samples		

IDEAL Version: ID7_0C_02			
IDF			
RAB	id6_1c_10	MWD_10	id6_1c_10
ADN	id6_1c_10		
True Vertical Depth Log			



6.75-in. Azimuthal Density Neutron / Equipment Identification		
Primary Equipment:		
Tool Name and Serial Number	ADN6 – CA	289
Neutron Logging Source	NSR – M	161
Density Logging Source	GSR – J/Z	2125
Stabilizer Size	8.25 – in.	
Calibration Status	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	4125	8000			700.0	9350	18000			2500	23750	45000	
	(Minimum)	(Nominal)	(Maximum)			(Minimum)	(Nominal)	(Maximum)			(Minimum)	(Nominal)	(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	725.0	1400			500.0	4250	8000			1500	15750	30000	
	(Minimum)	(Nominal)	(Maximum)			(Minimum)	(Nominal)	(Maximum)			(Minimum)	(Nominal)	(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	82.50	150.0			40.00	220.0	400.0			150.0	825.0	1500	
	(Minimum)	(Nominal)	(Maximum)			(Minimum)	(Nominal)	(Maximum)			(Minimum)	(Nominal)	(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

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)	
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

Calibration Status

RAB6 - CA




136

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

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)			
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)			
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)			

Master: 28-JUL-2002 11:01		
6.75-in. Resistivity At-the-Bit Calibration		
Gamma Ray: Blanket		
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














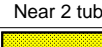
Master: 23-JUL-2002 14:16														
6.75-in. Azimuthal Density Neutron Calibration														
Density: Magnesium Block														
Phase	LS window 3 – Mg CPS			Value	Phase	SS window 1 – Mg CPS			Value	Phase	SS window 3 – Mg CPS			Value
Master				1294	Master				3056	Master				7448
	250.0 (Minimum)	4125 (Nominal)	8000 (Maximum)			700.0 (Minimum)	9350 (Nominal)	18000 (Maximum)			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	Phase	SS window 3 – Al CPS			Value
Master				190.8	Master				1547	Master				4662
	50.00 (Minimum)	725.0 (Nominal)	1400 (Maximum)		500.0 (Minimum)	4250 (Nominal)	8000 (Maximum)			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	Phase	SS window 3 – Background		CPS	Value
Master				58.08	Master				125.9	Master				543.1
	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: 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


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)
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)	1.300 (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			1.052	Master			-0.8120
	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			1.081	Master			-0.7770
	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			1.046				
	0.9000 (Minimum)	1.100 (Nominal)	1.300 (Maximum)				
Phase	Near 2 tube 1 gain		Value				
Master			1.011				
	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	125
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)		0.9750 (Minimum)	1.000 (Nominal)	1.025 (Maximum)
Phase	M0/T2 factor		Value	Phase	M2/T1 factor		Value	Phase	M2/T2 factor		Value

<div>Master</div>			<div></div>	0.9992	<div>Master</div>			<div></div>	0.9985	<div>Master</div>			<div></div>	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			<div></div>			1.003			Master			<div></div>			0.9977			Master			<div></div>			1.007								
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			<div></div>			1.001			Master			<div></div>			1.005			Master			<div></div>			0.9997								
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: 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)	

ANADRILL

SCHLUMBERGER

Survey report

11-Aug-2002 11:07:47

Page 1 of 5

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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ANADRILL SCHLUMBERGER Survey Report

11-Aug-2002 11:07:47

Page 2 of 5

Seq	Measured	Incl	Azimuth	Course	TVD	Vertical	Displ	Displ	Total	At	DLS	Srvy	Tool
#	depth	angle	angle	length	depth	section	+N/S-	+E/W-	displ	Azim	(deg/	tool	qual
-	(m)	(deg)	(deg)	(m)	(m)	(m)	(m)	(m)	(m)	(deg)	10m)	type	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

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 (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

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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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	1289.45	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

IDEAL services from Anadrill

VISION Density Neutron
1:200 True Vertical Depth
Recorded Mode Log

Schlumberger