

Bit Run Summary										
Run number		2	3							
Bit size	in.	8.5	8.5							
Bit start depth	m	851.0	1570.0							
Bit end depth	m	2108.0	1625.0							
Top interval logged	m	848.0	1562.3							
Bottom interval logged	m	2090.7	1602.6							
Begin log: time		11:40	20:15							
Begin log: date		01-Mar-05	04-Mar-05							
End log: time		02:30	22:30							
End log: date		04-Mar-05	04-Mar-05							
Mud data										
Depth	m	2084	2084							

Type		KCL/PHPA/Glycol	KCL/PHPA/Glycol								
Mud weight	ppg	10.0	10.0								
Solids	%	7.1	7.1								
Chlorides	mg/L	31000	31000								
Rm	ohm.m@°C	0.14@24.1	0.14@24.1								
Rmf	ohm.m@°C	0.12@23.5	0.12@23.5								
Rmc	ohm.m@°C	0.23@24.5	0.23@24.5								
Potassium	%	6.0	6.0								
Environmental data											
GR											
Mud weight	ppg	10.0	10.0								
Bit size	in.	8.5	8.5								
Resistivity											
Neutron porosity											
Hole Size	in.	8.5	8.5								
Mud weight	ppg	10.0	10.0								
Temperature	°C	70.6	70.6								
Mud salinity	ppm	45746	45746								
Formation salinity											
Recording rate 1	SEC	10 sec.	10 sec.								
Recording rate 2	SEC	10 sec.	10 sec.								
Filtering GR		3 pt.	3 pt.								
Filtering density		3 pt.	3 pt.								
Filtering Neutron		3 pt.	3 pt.								
Company representative		B. Steel	M. Jackson	A. Bassett							
Anadrill personnel		K. Handley	M. Y. Tan	R. Burns	K. Wilson	D. Hay					

DISCLAIMER

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OTHER SERVICES FOR RUN2 Directional Drilling D&I Survey	OTHER SERVICES FOR RUN3 Directional Drilling D&I Survey	OTHER SERVICES FOR RUN
REMARKS: RUN NUMBER 2 8-1/2 in. hole section was drilled from 851.0 m to 2108.0 m. Depth is referenced to Driller's Depth. All data presented is from tool memory. GR corrected for mud weight, tool and bit size. GVR*6 resistivity is corrected for bit size, mud resistivity and borehole temperature. Neutron porosity is calculated with a limestone matrix and is corrected for bit size, borehole salinity, temperature and mud hydrogen index. Ultrasonic Caliper not available during sliding intervals.	REMARKS: RUN NUMBER 3 8-1/2 in. hole section was reamed from 1570.0 m to 1625.0 m. Depth is referenced to Driller's Depth. All data presented is from tool memory. GR corrected for mud weight, tool and bit size. GVR*6 resistivity is corrected for bit size, mud resistivity and borehole temperature. Neutron porosity is calculated with a limestone matrix and is corrected for bit size, borehole salinity, temperature and mud hydrogen index. PEF readings were affected by the presence of Barite in the mud system.	REMARKS: RUN NUMBER

sliding intervals.

PEF readings were affected by the presence of Barite in the mud system.

Data density compromised at high ROP.

POOH due to drill plug.

Barite in the mud system.

POOH to change BHA.

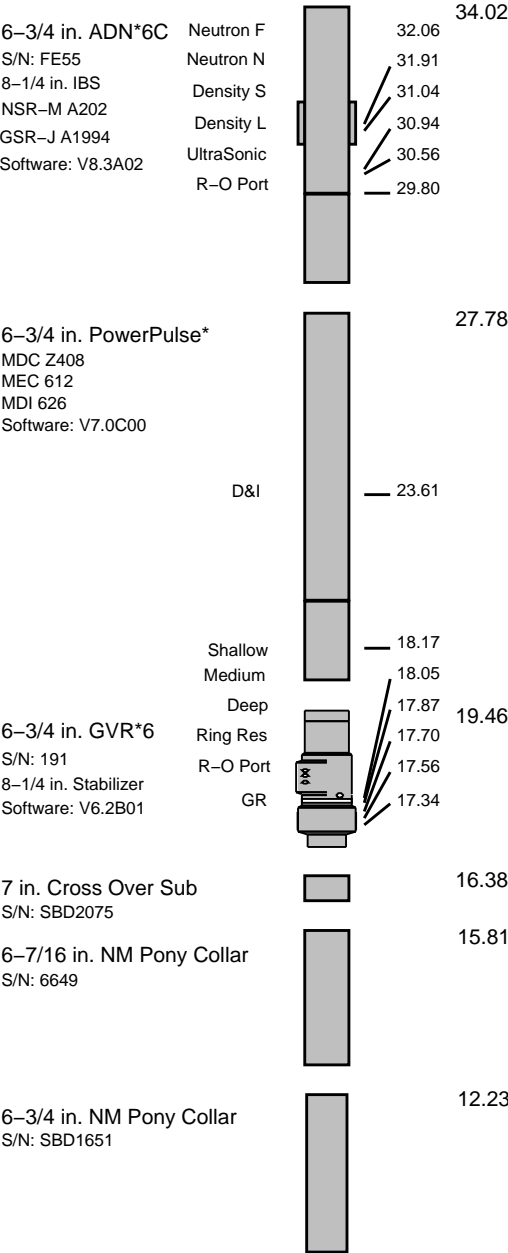
EQUIPMENT DESCRIPTION

RUN2

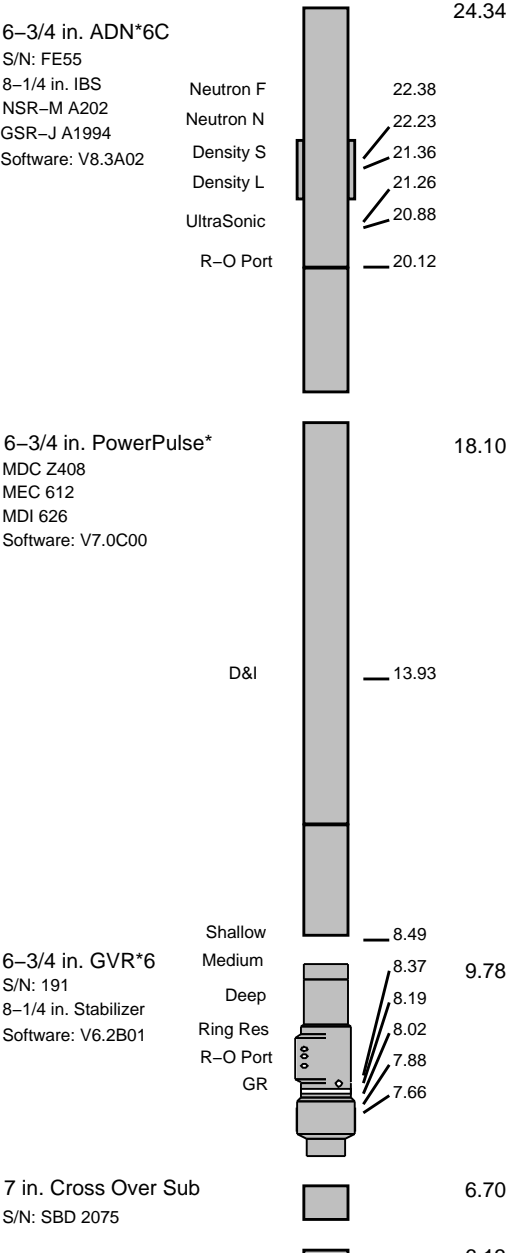
RUN3

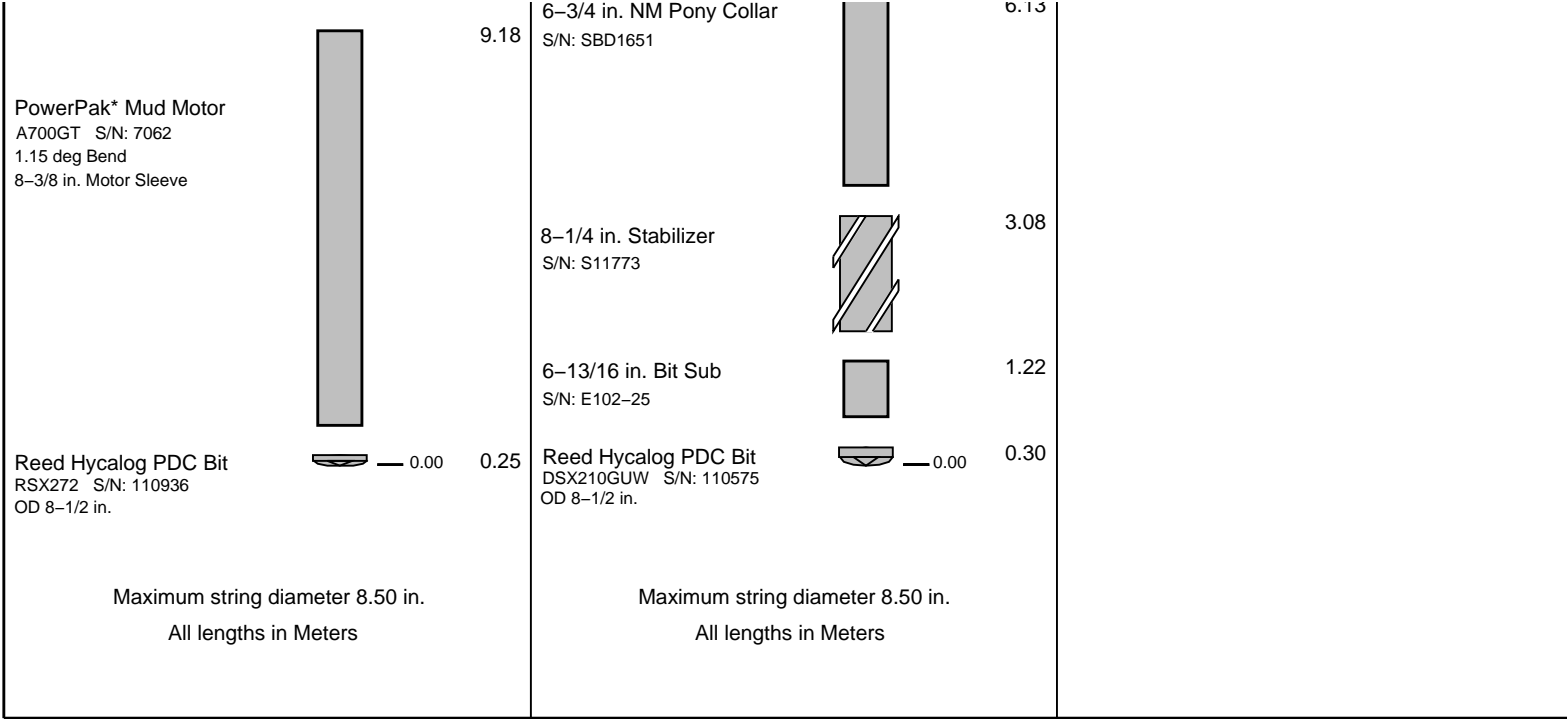
RUN

DOWNHOLE EQUIPMENT



DOWNHOLE EQUIPMENT





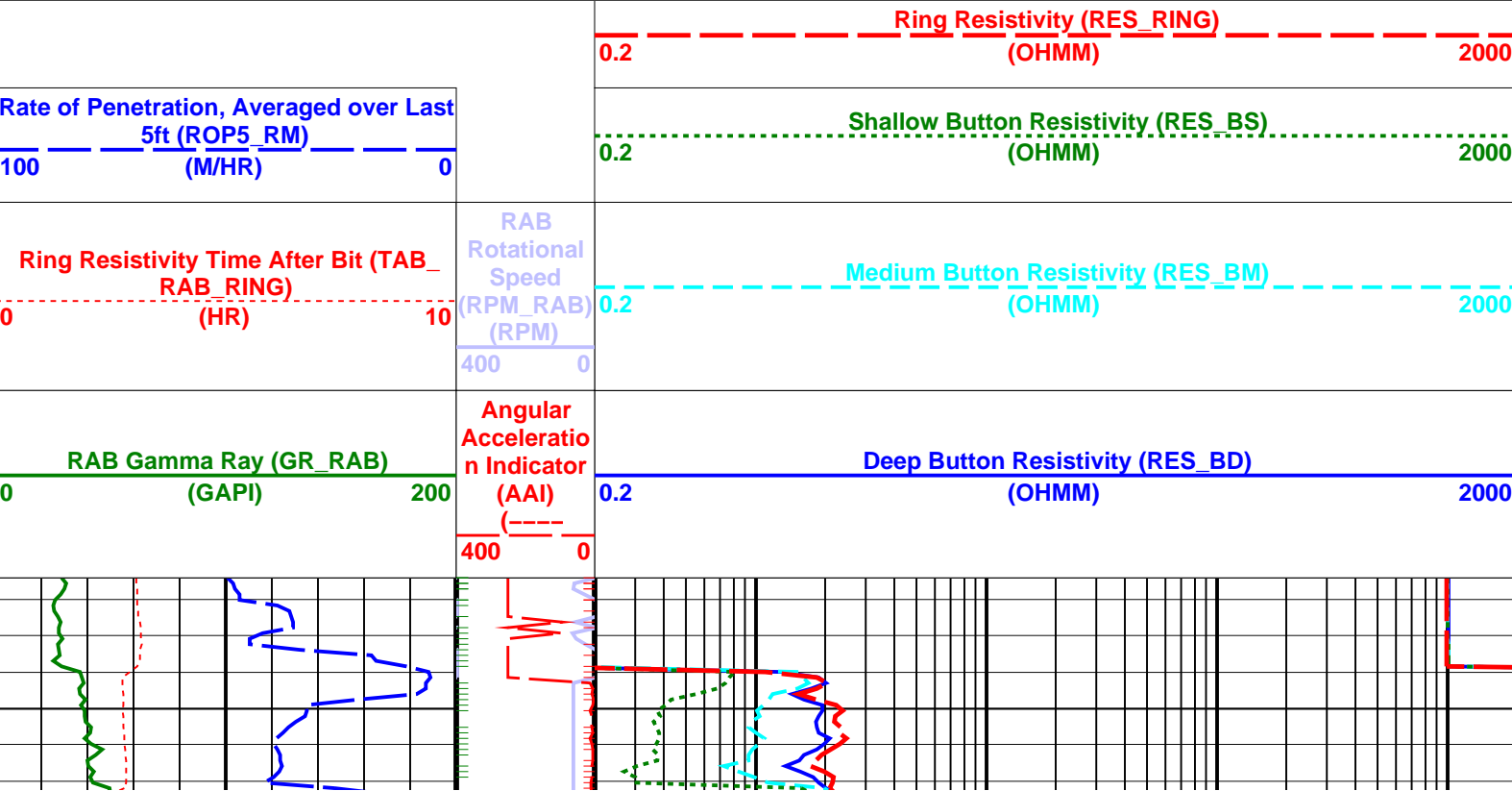
True Vertical Depth Log

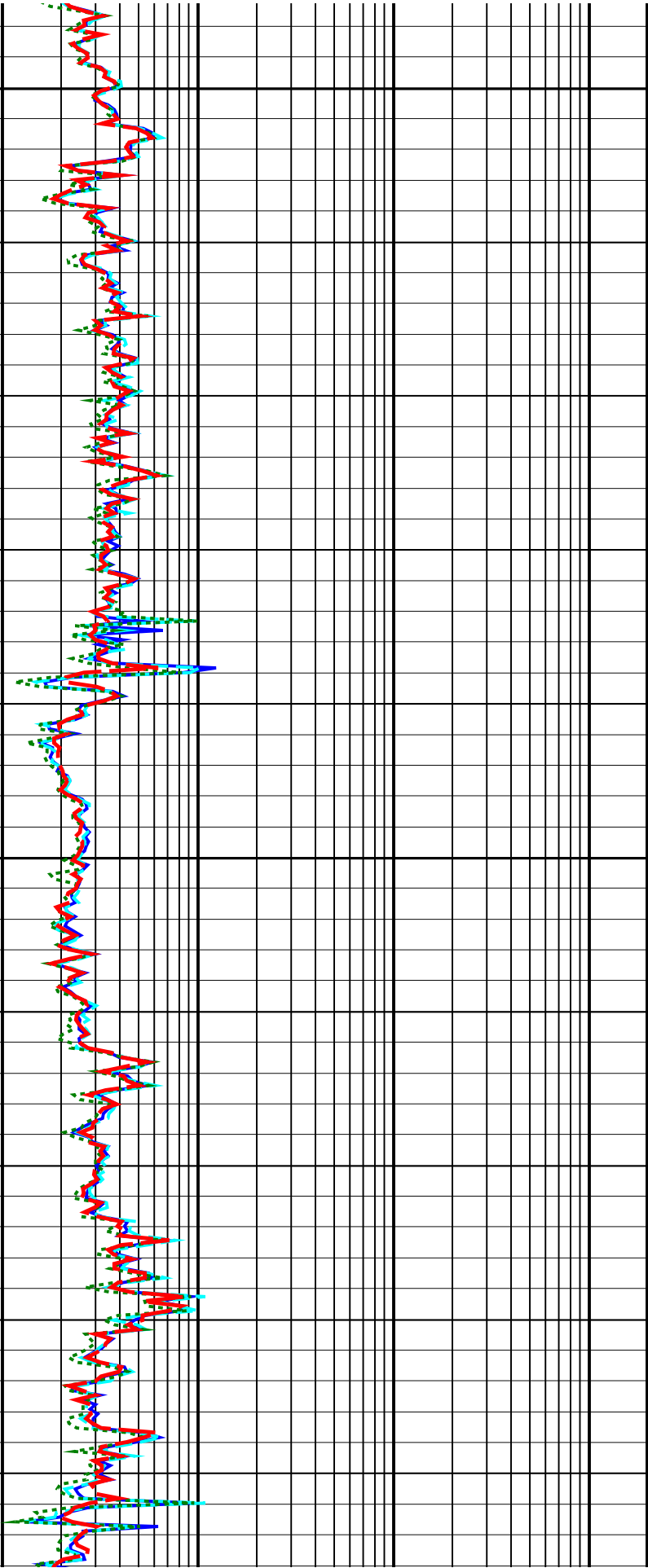
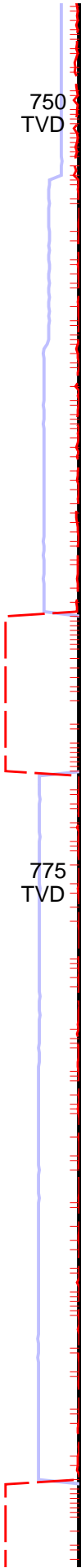
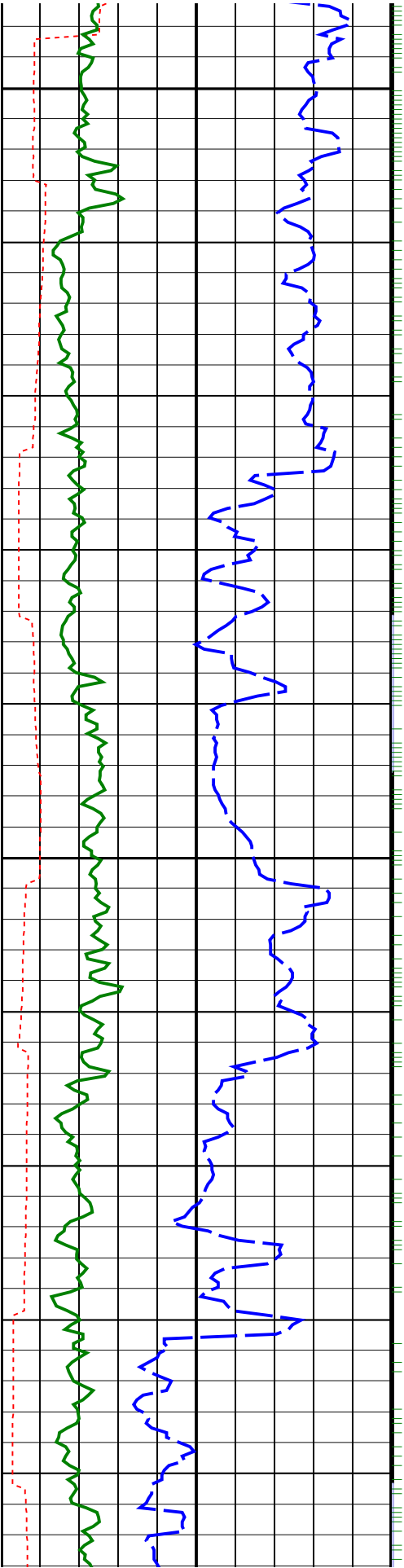
IDEAL Version: ID8_OC_07
IDF

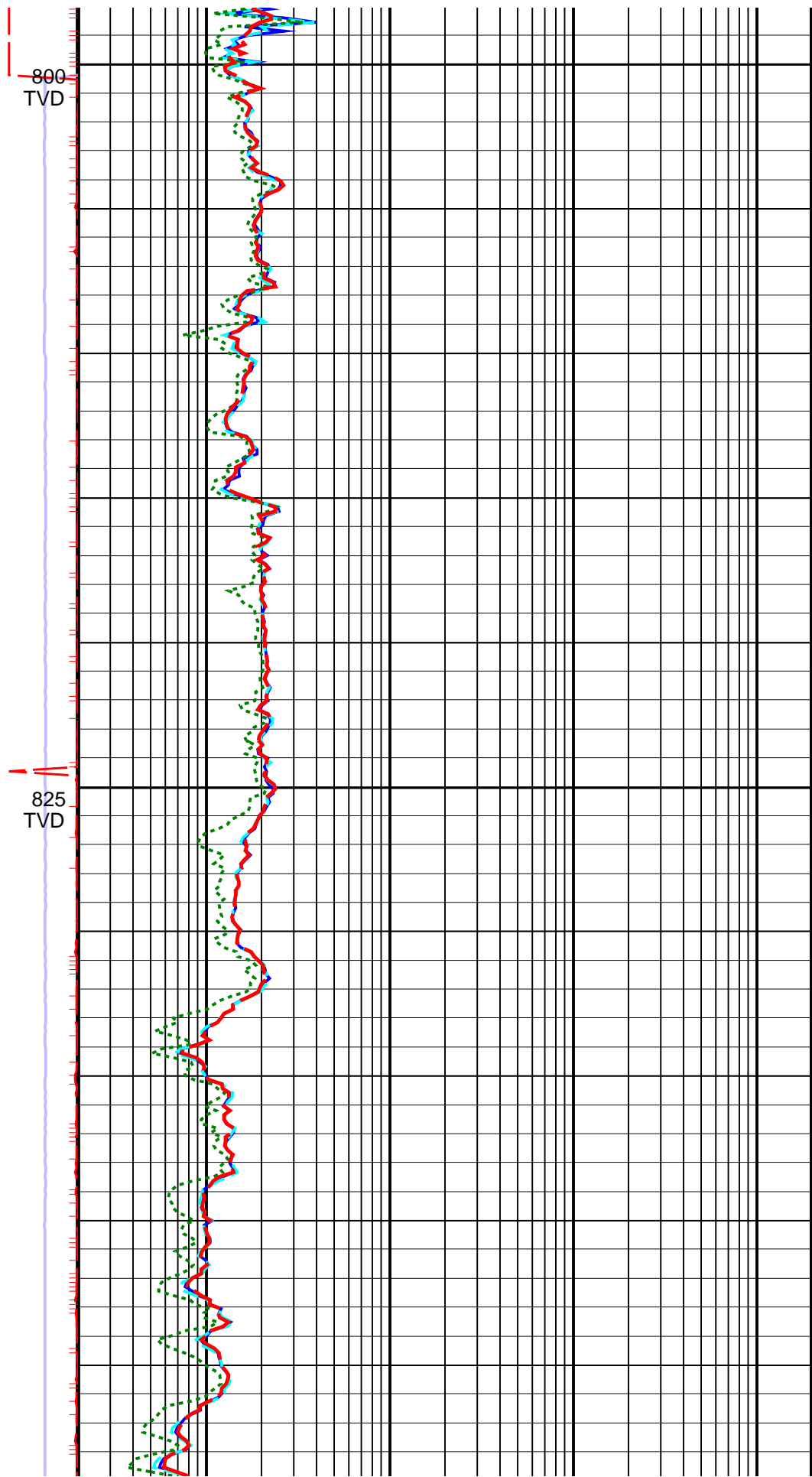
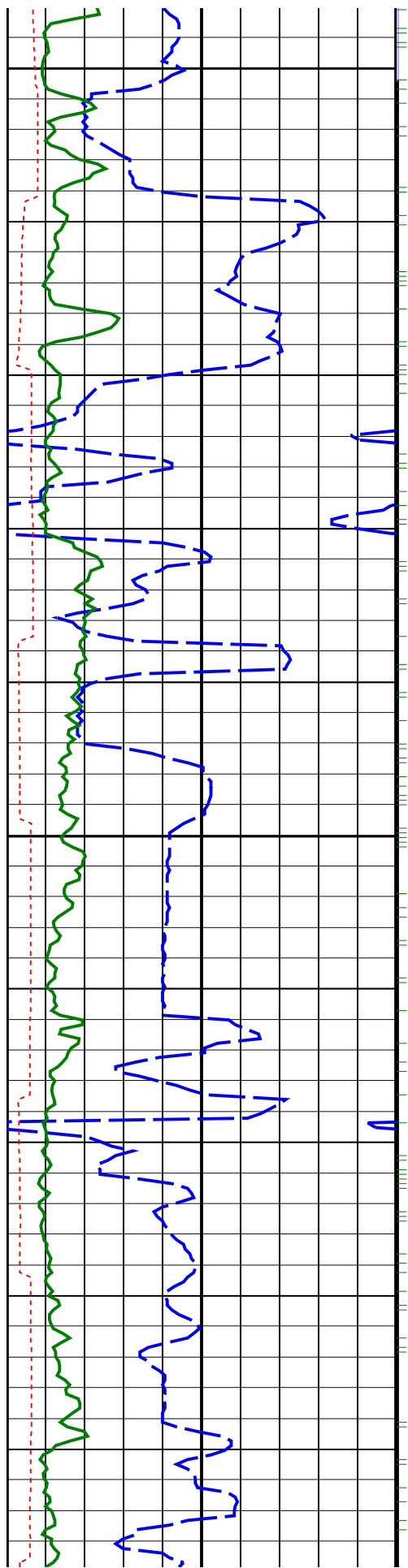
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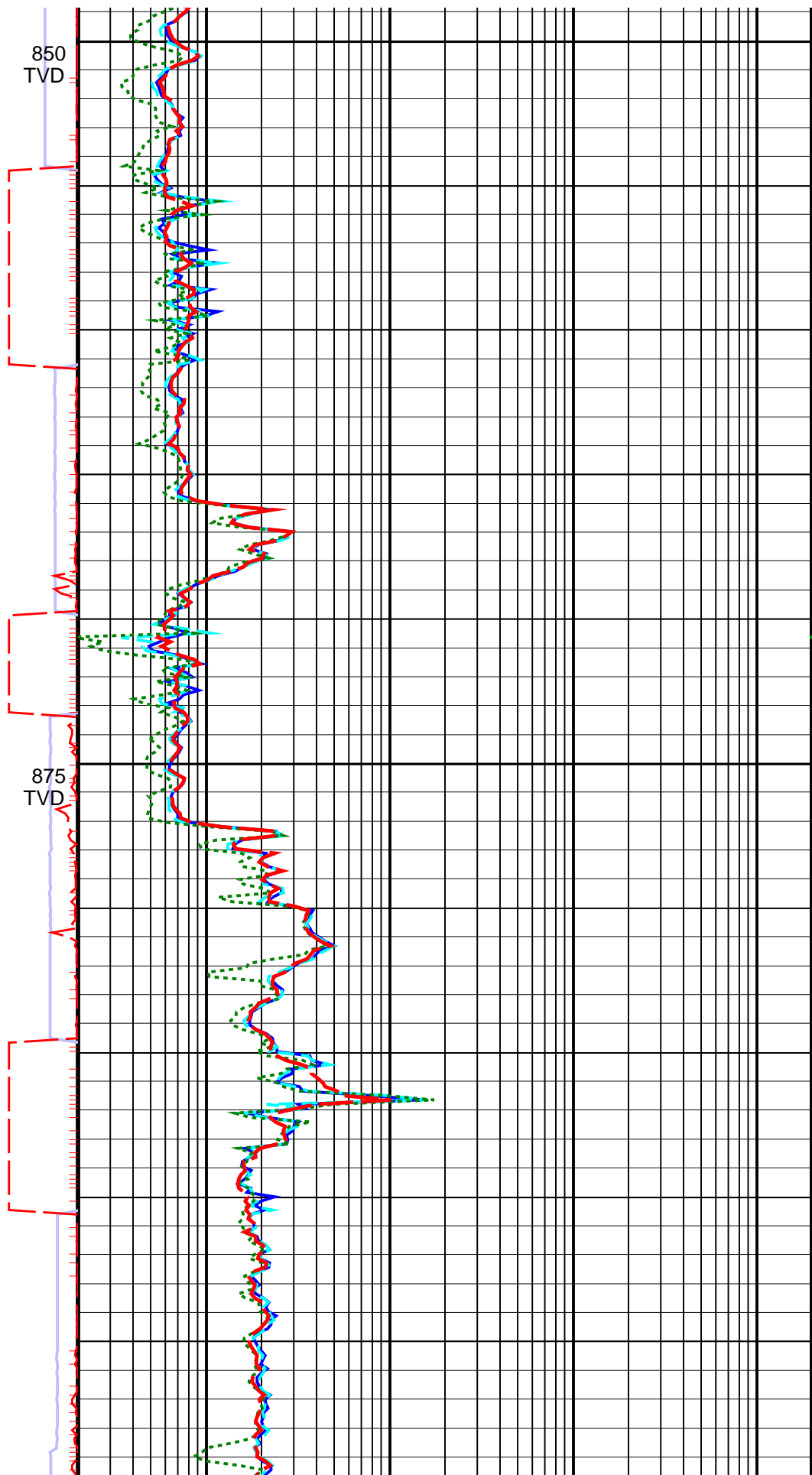
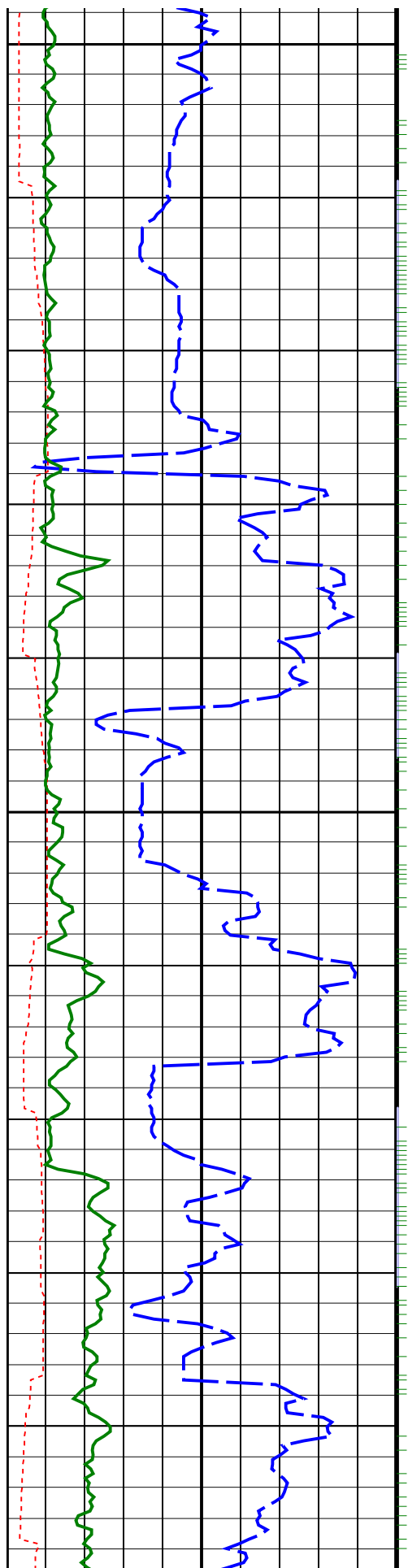
PIP SUMMARY

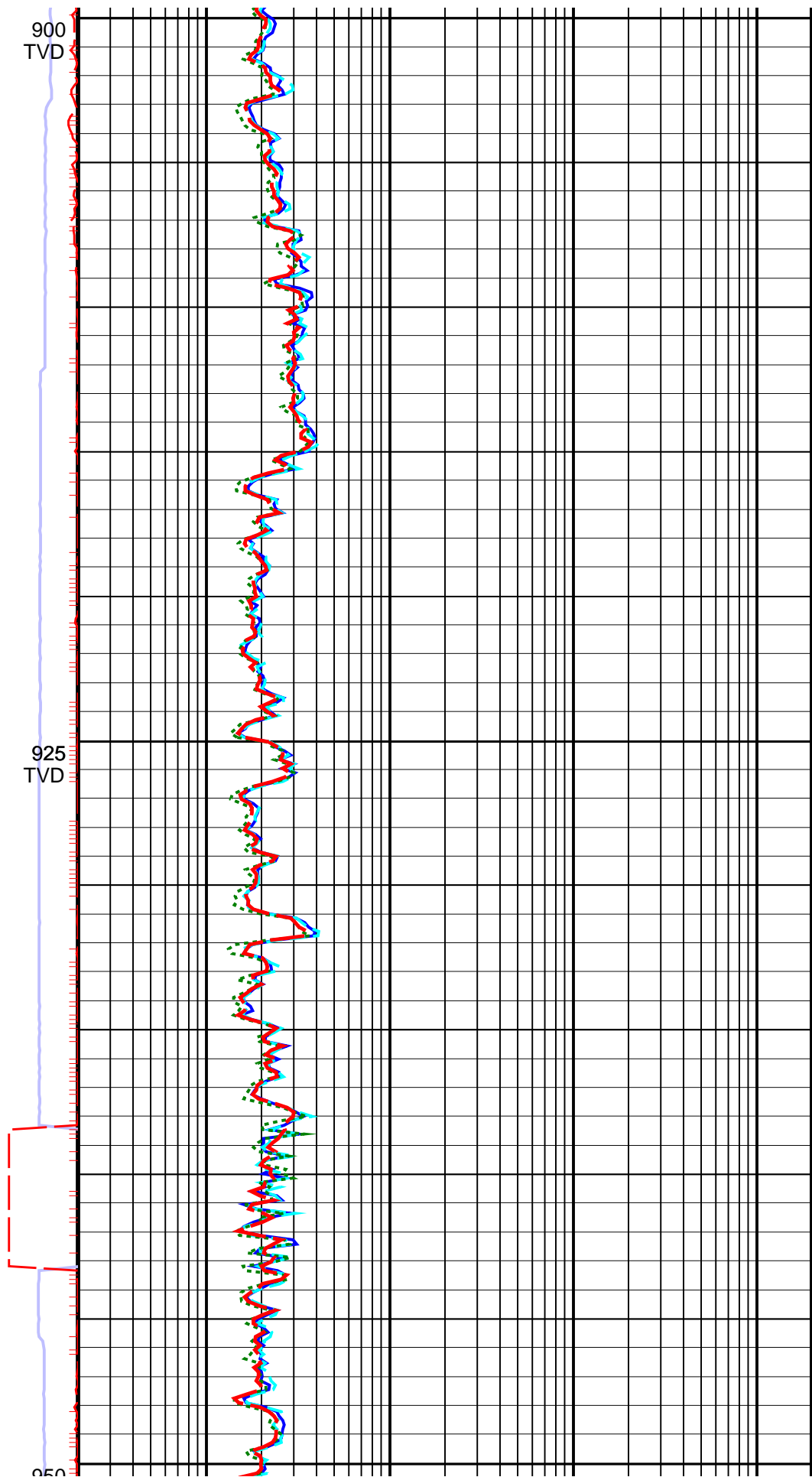
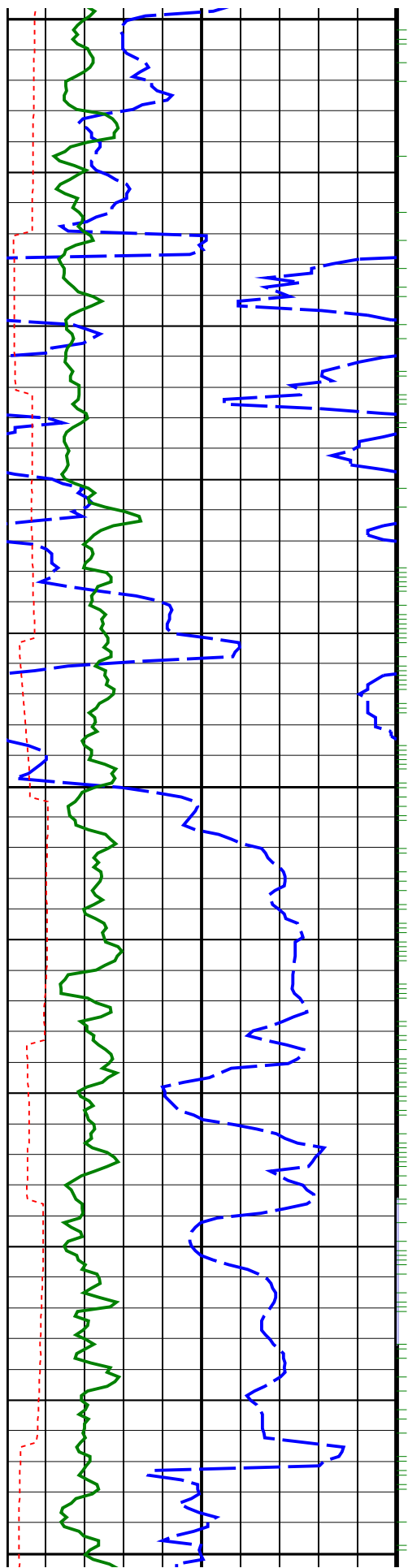
└ Gamma Ray Samples
└ Ring Samples

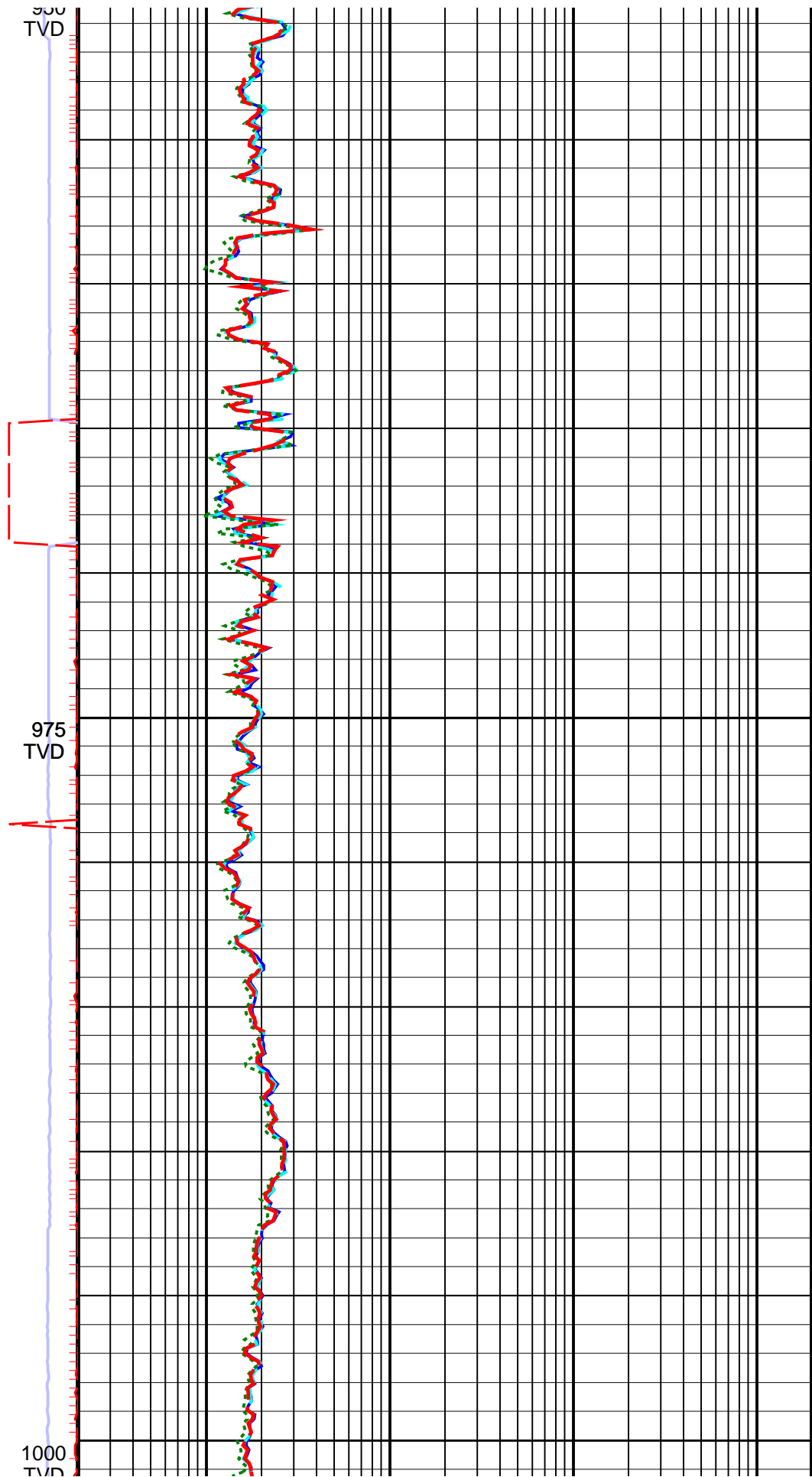
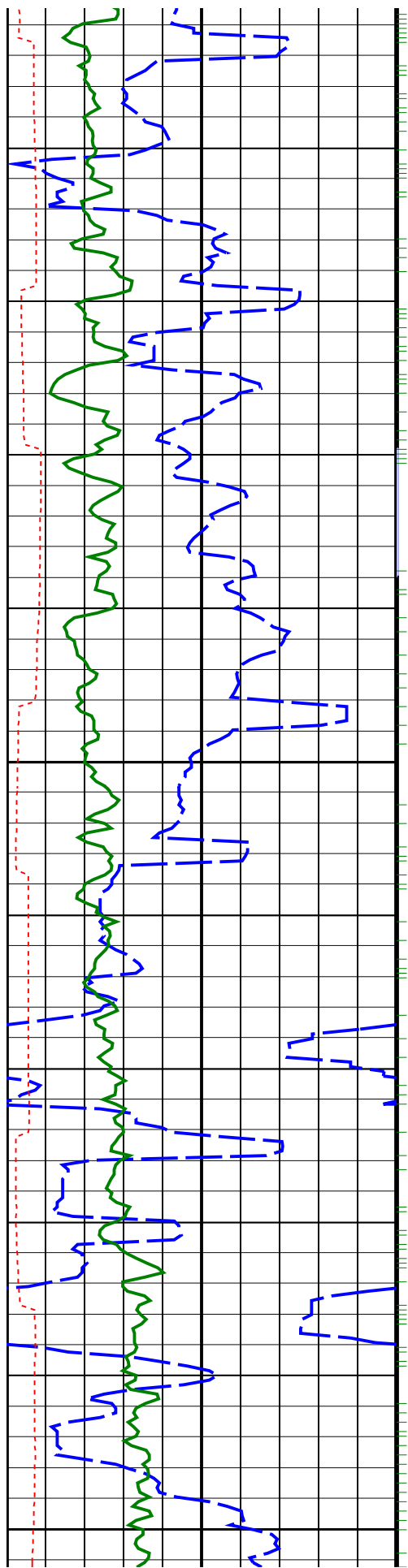


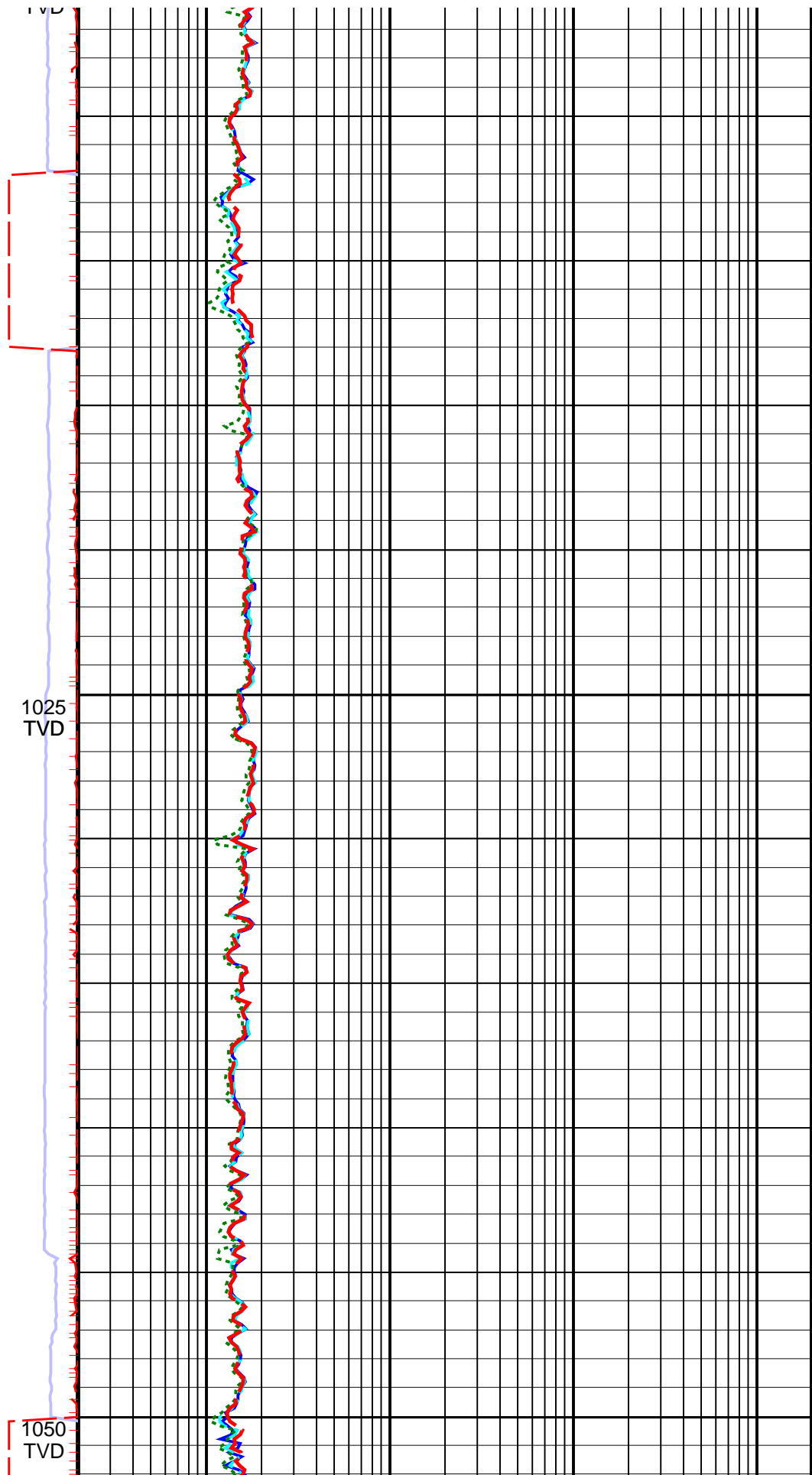
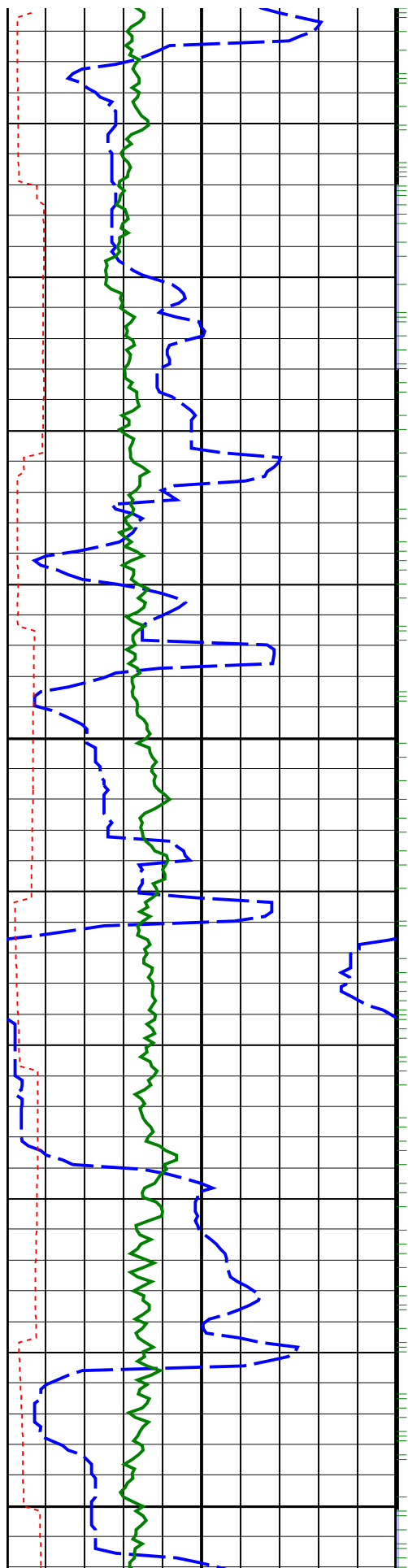


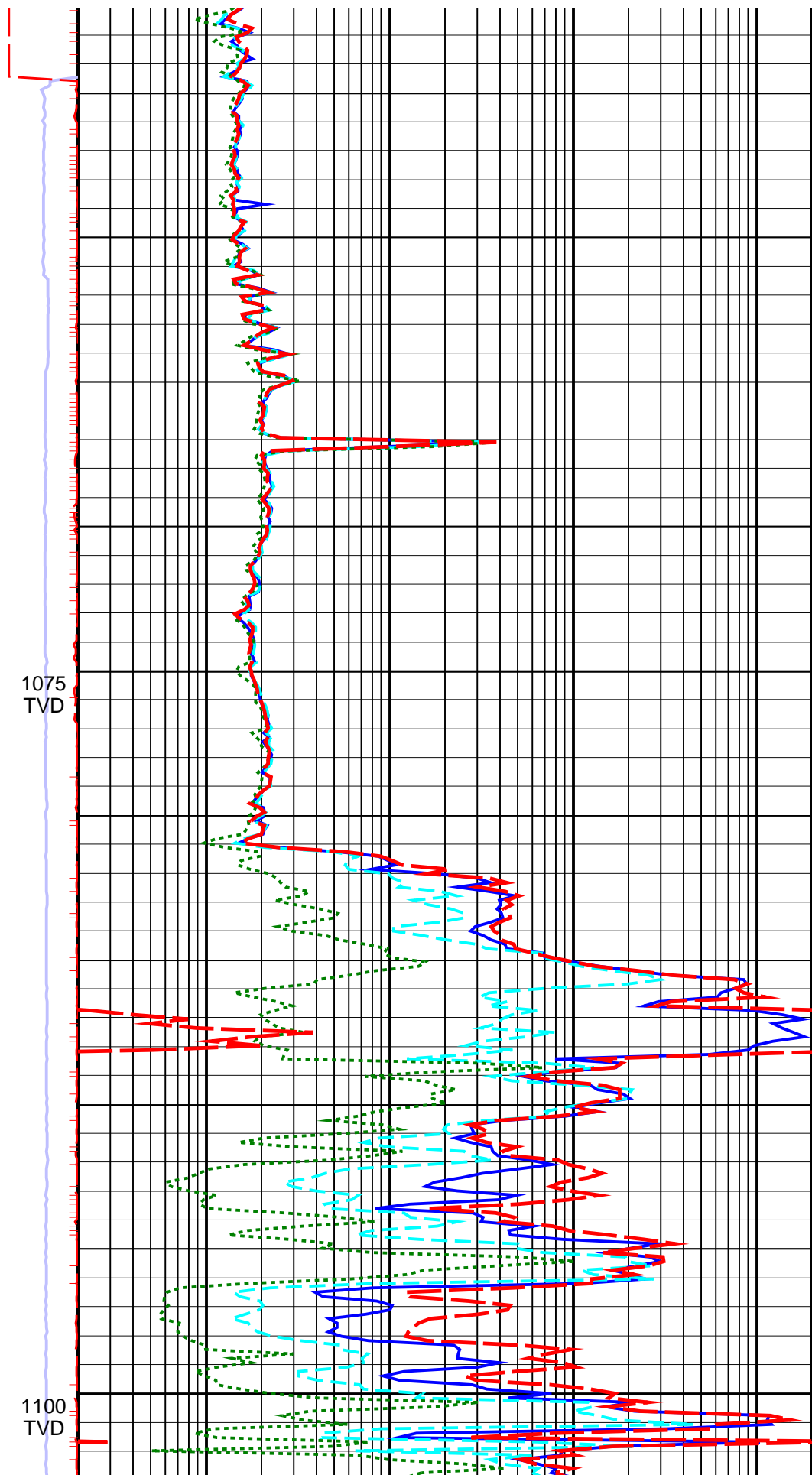
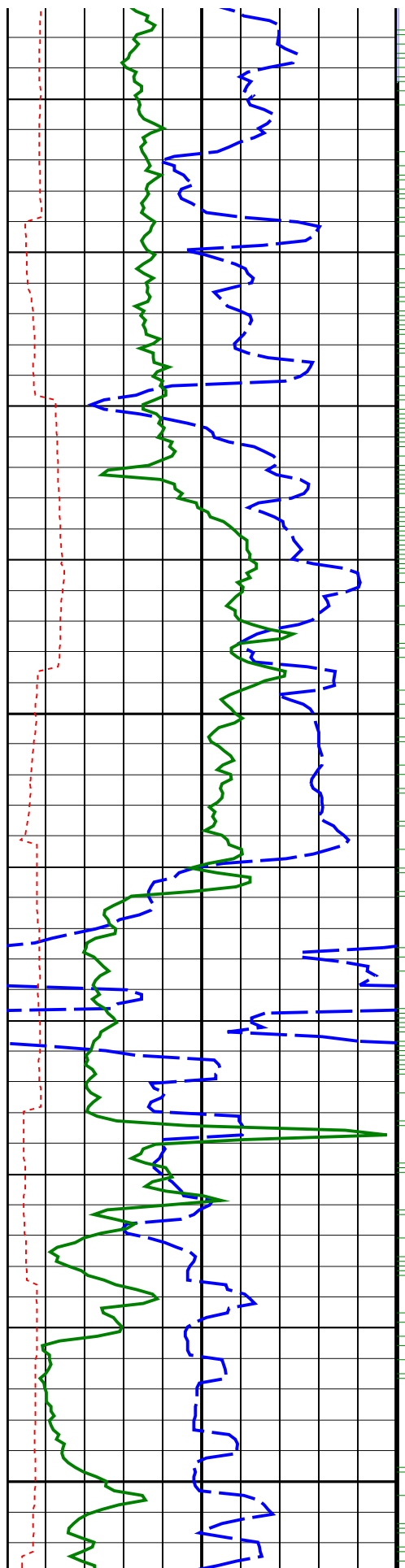


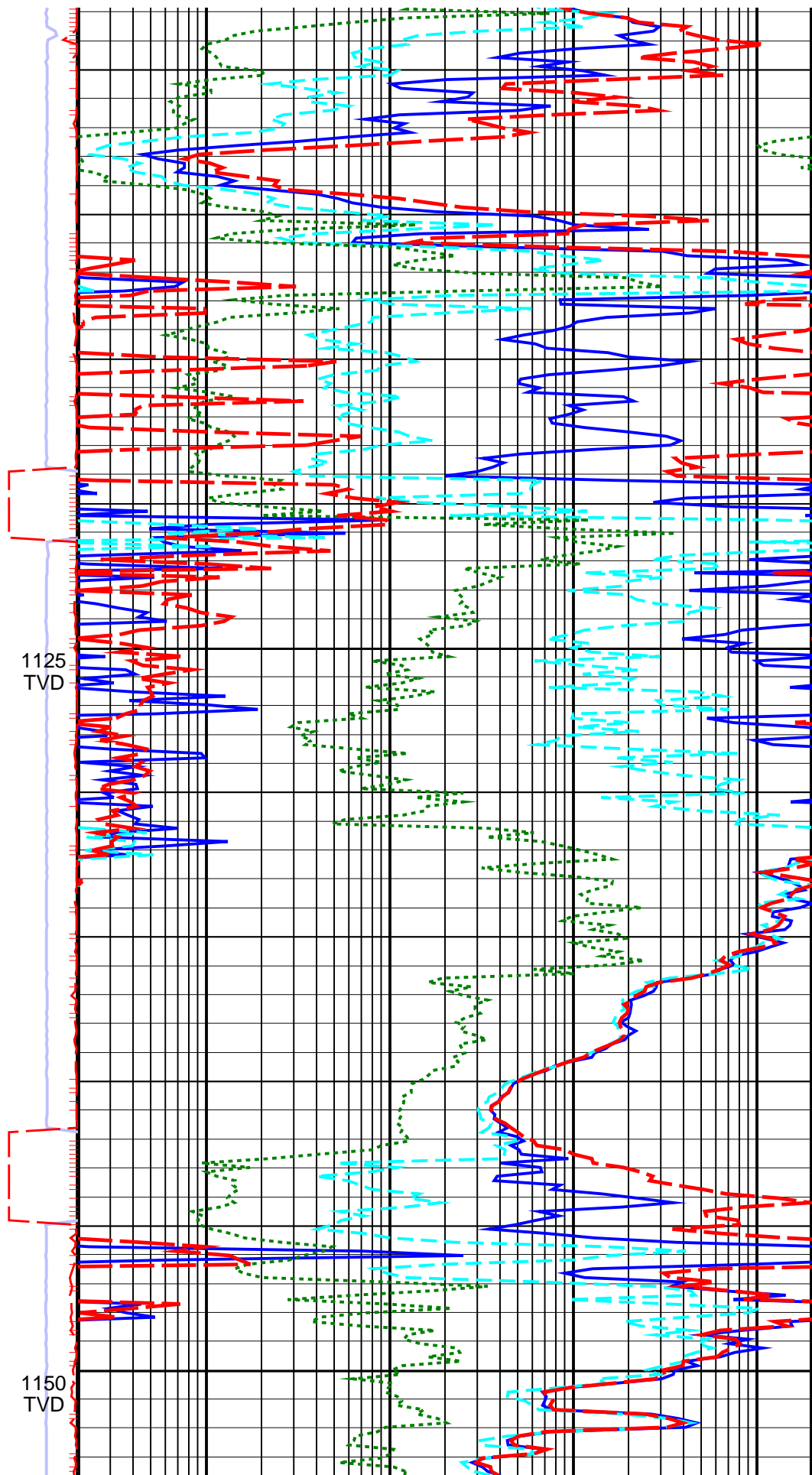
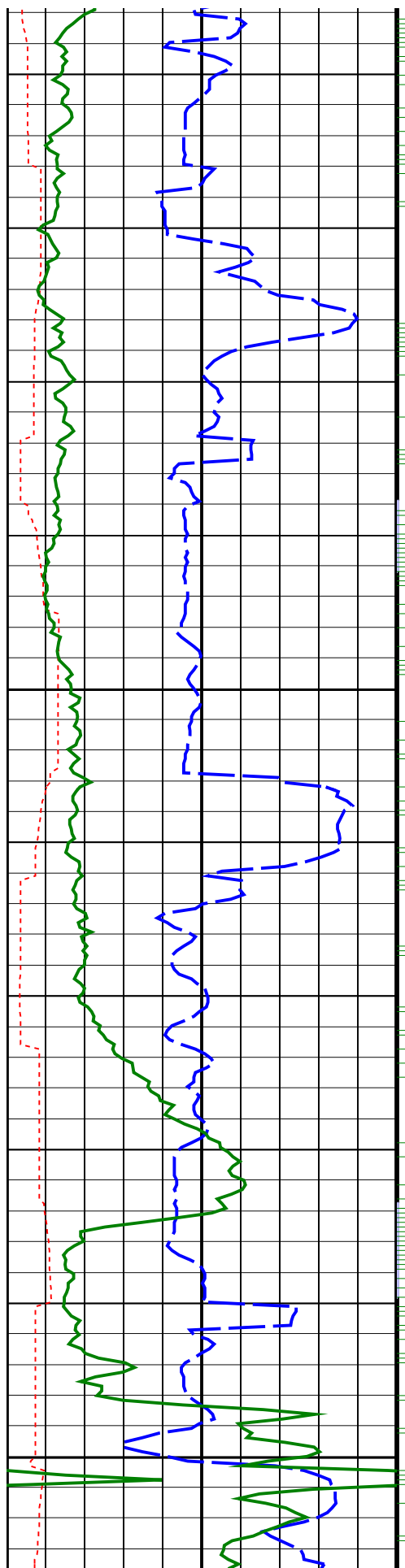


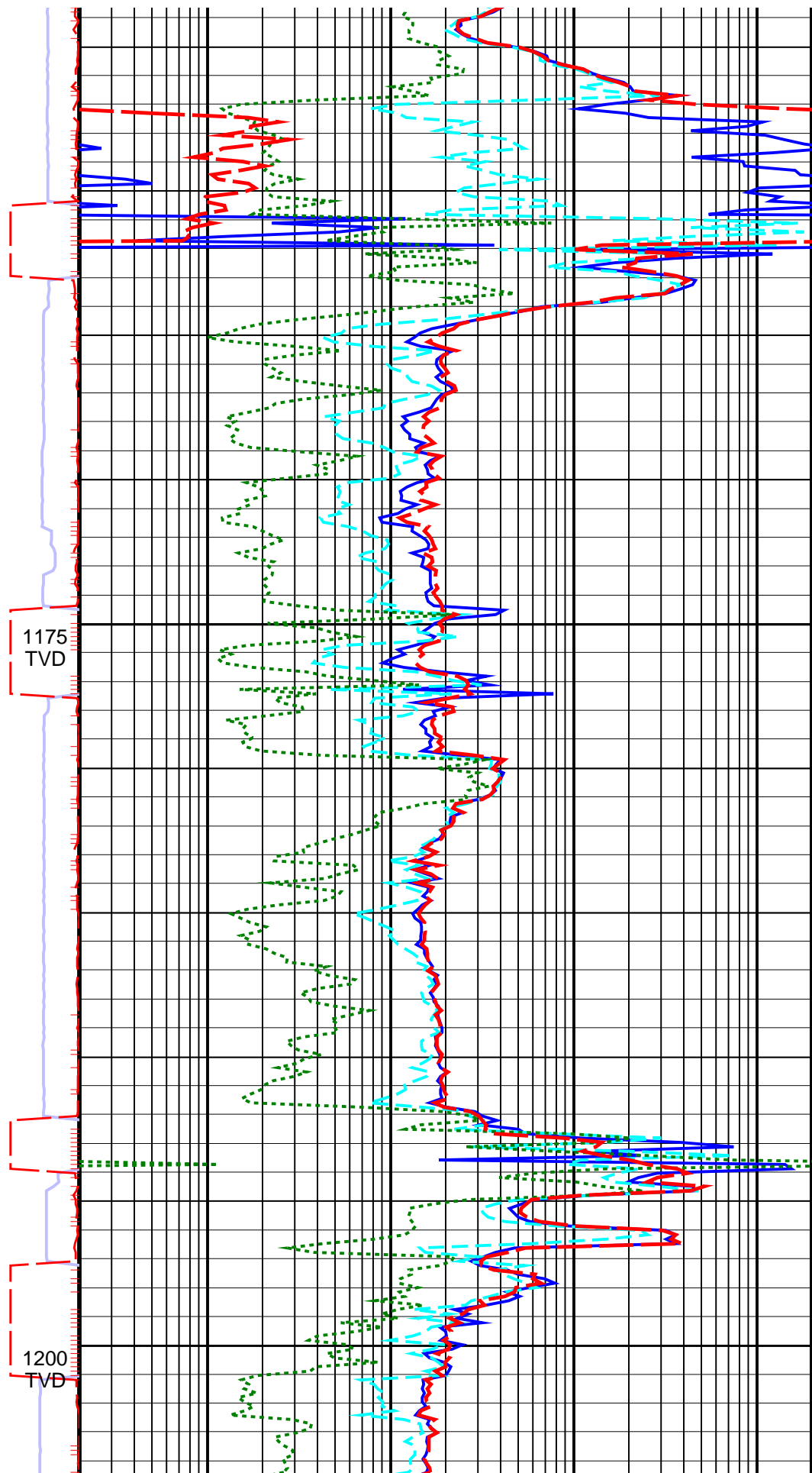
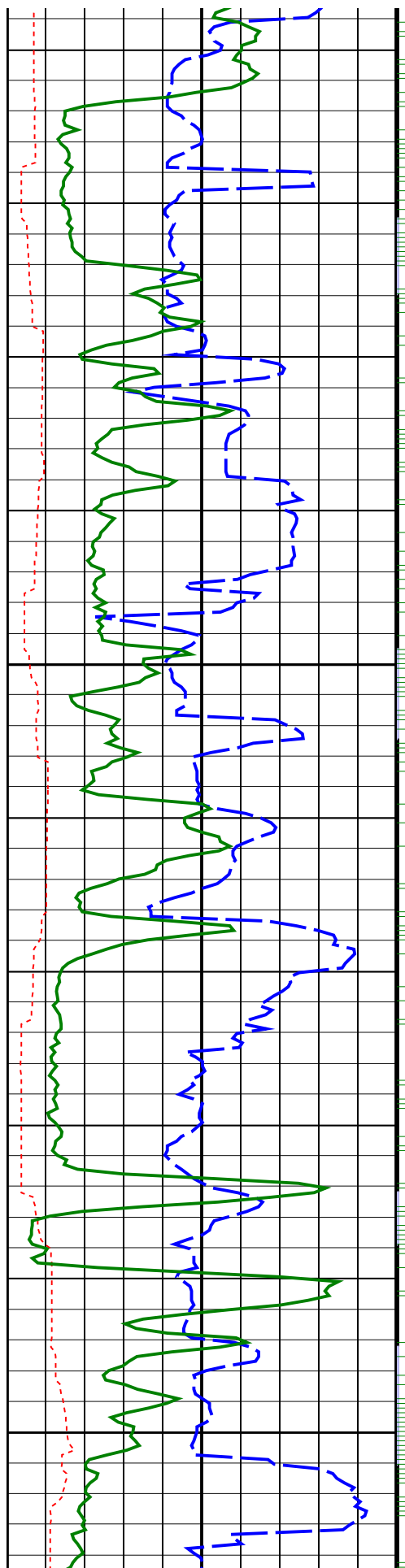


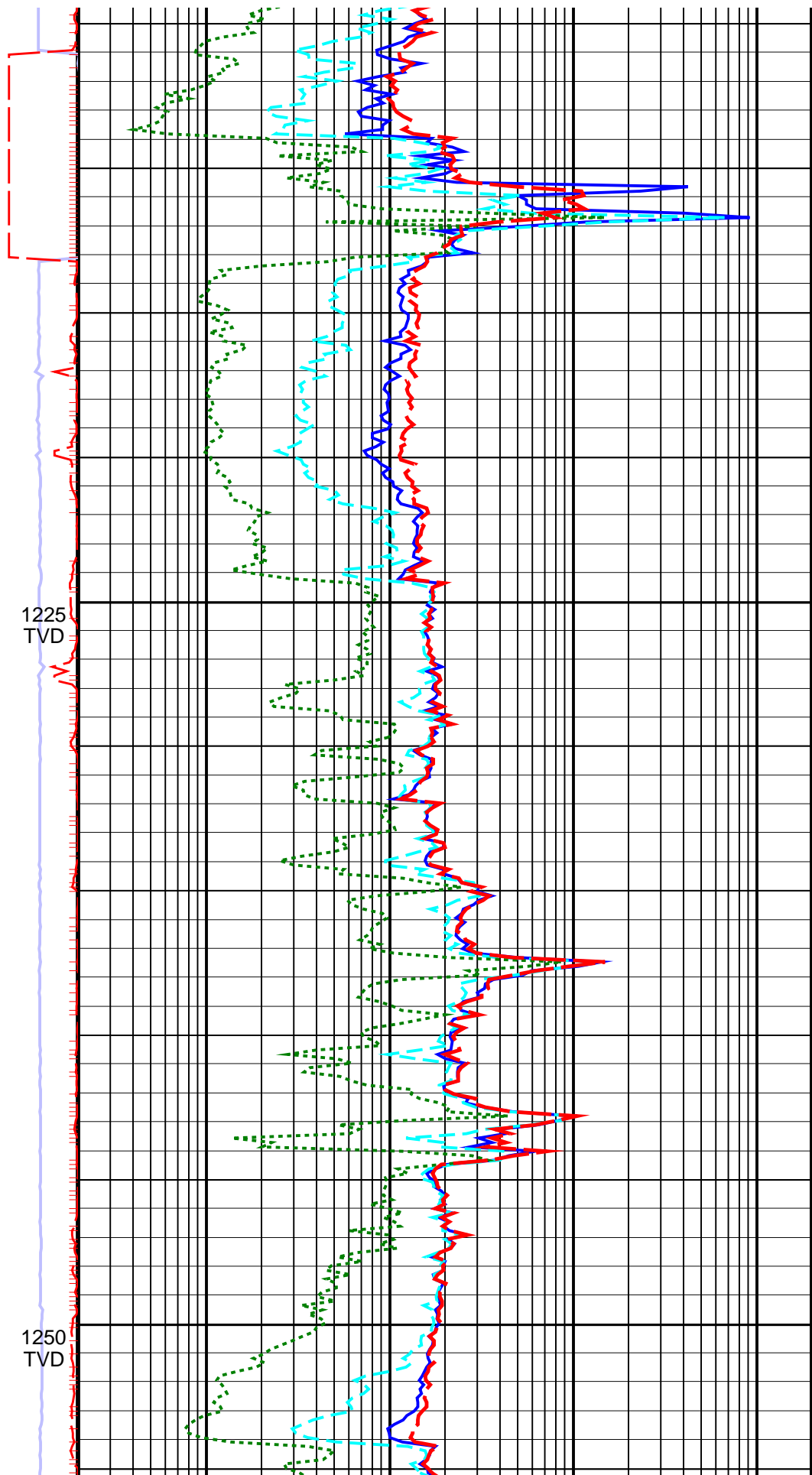
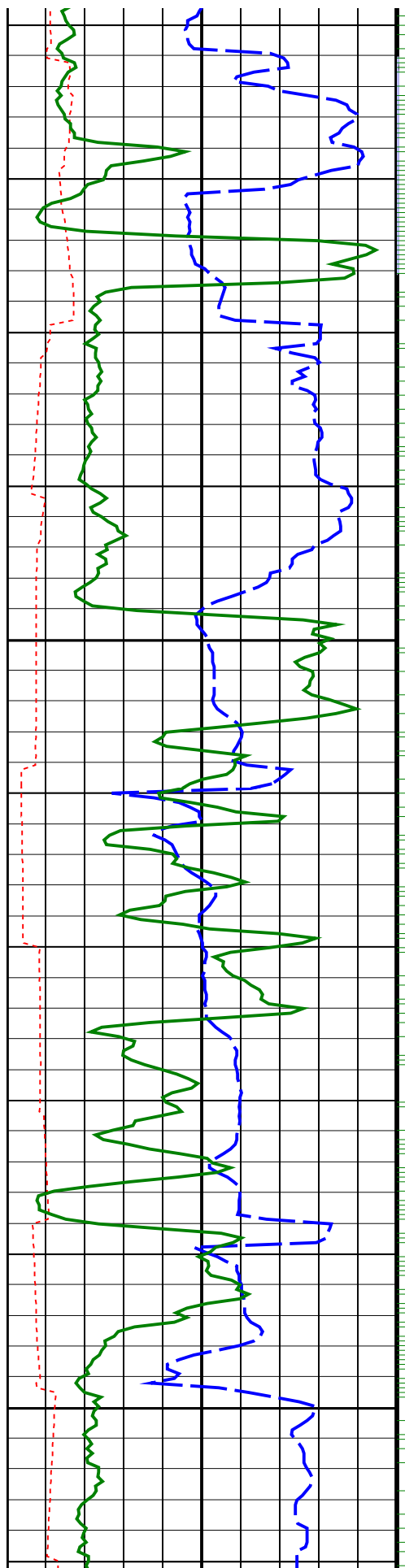


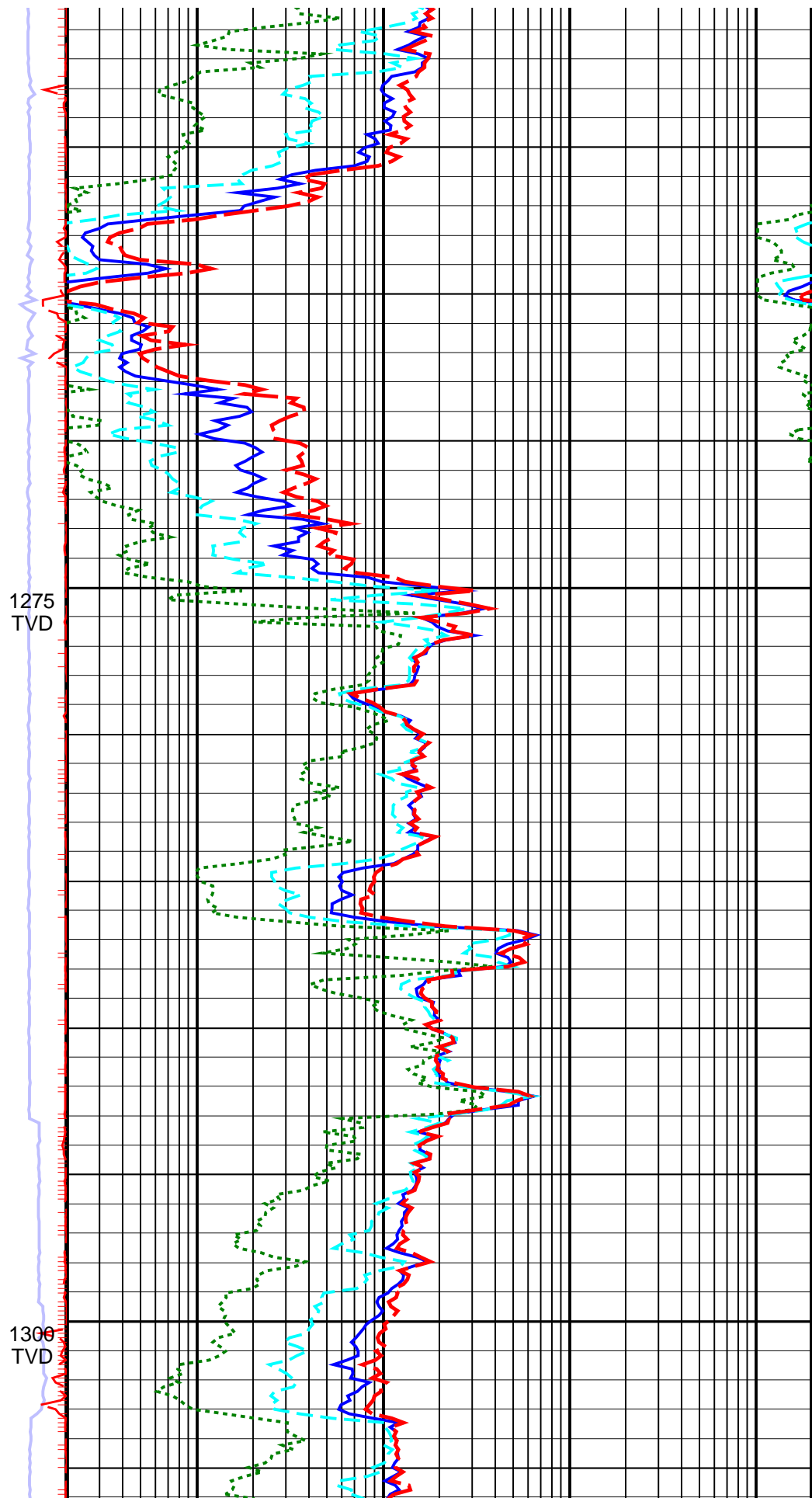
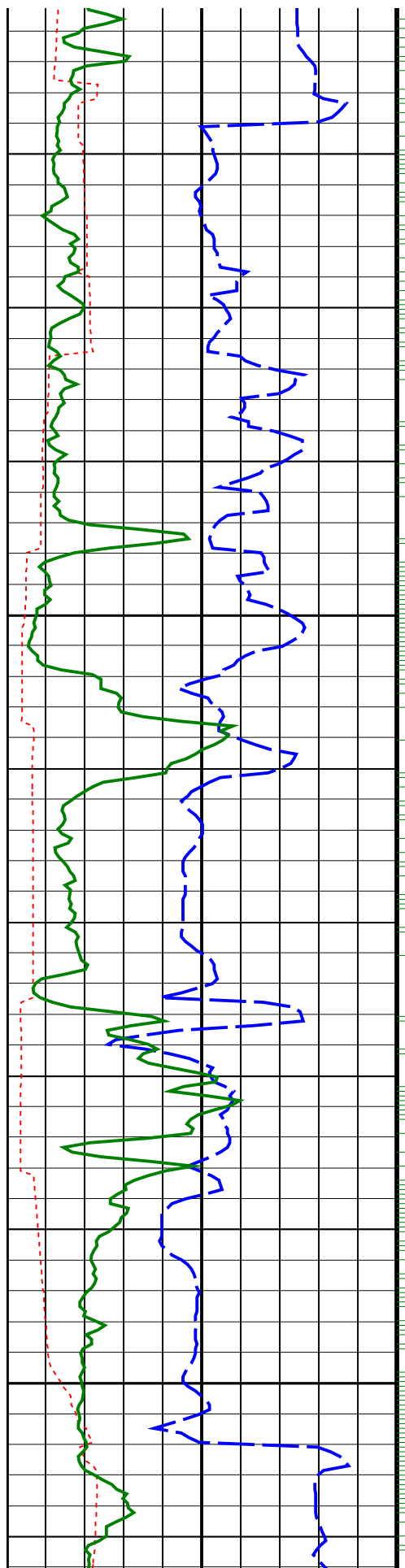


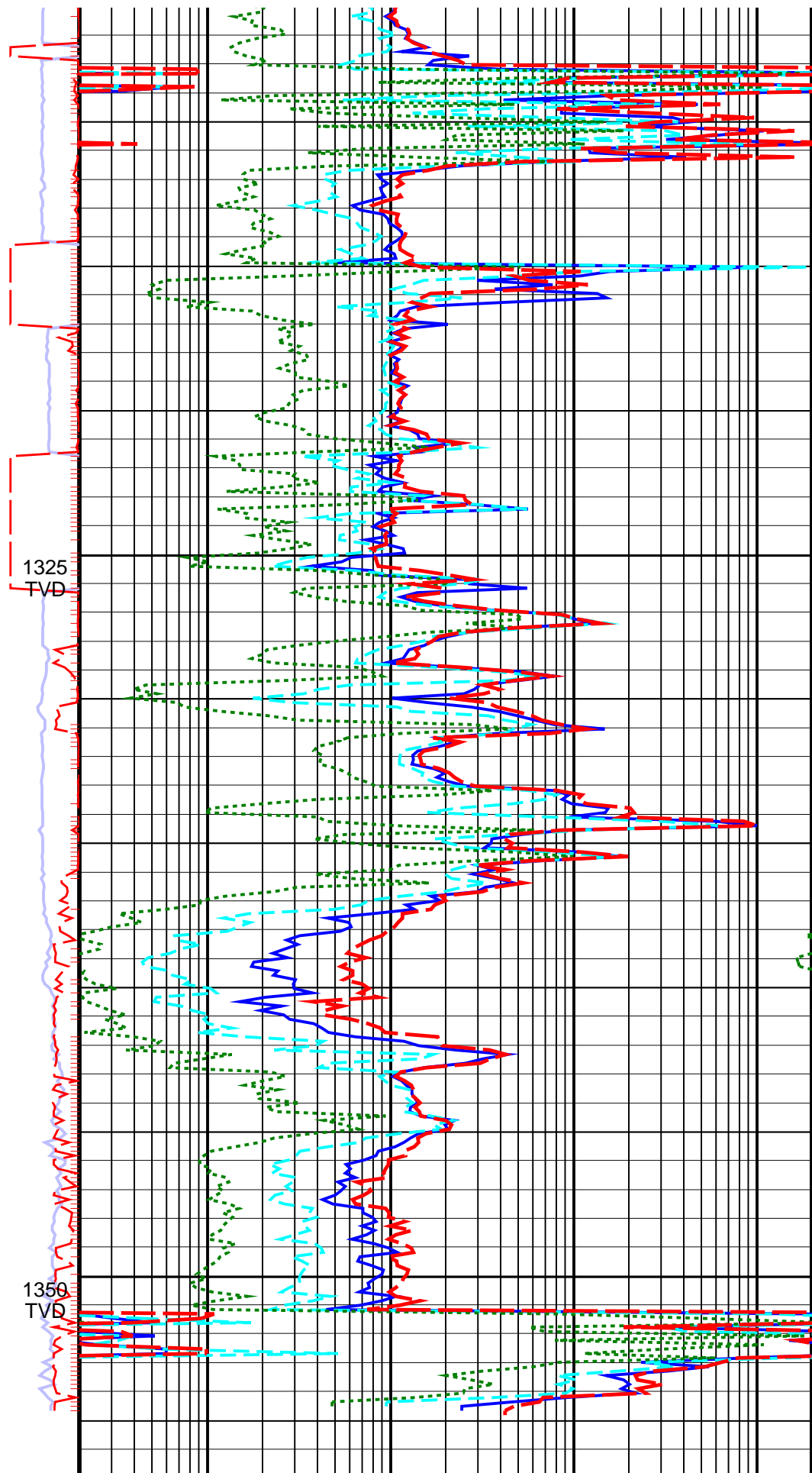
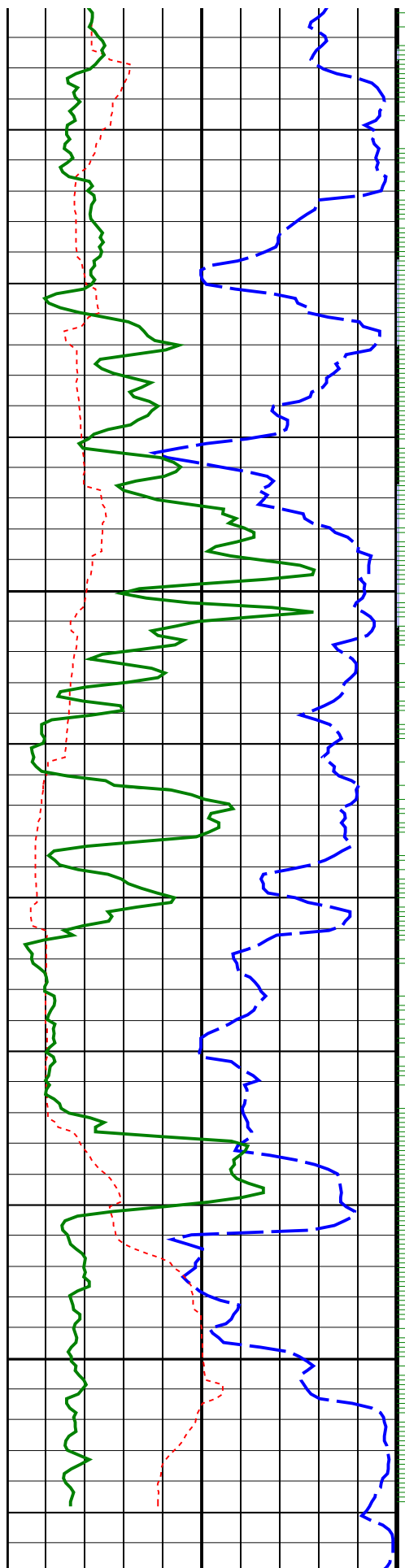


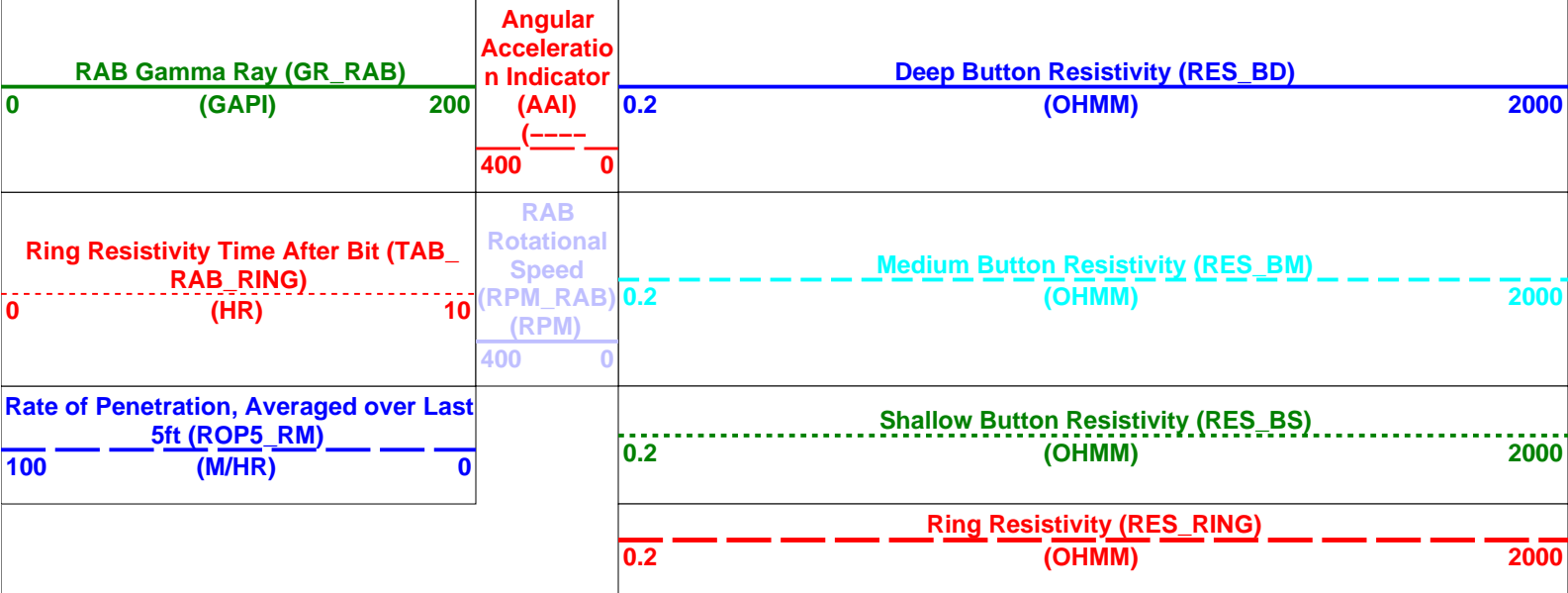
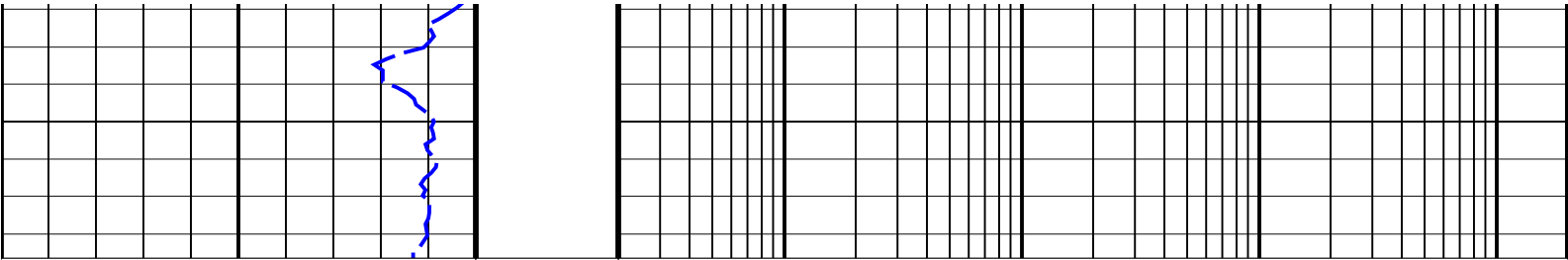












PIP SUMMARY

└ Gamma Ray Samples
└ Ring Samples

IDEAL Version: ID8_0C_07
IDF




True Vertical Depth Log



6.75-in. Azimuthal Density Neutron / Equipment Identification		
Primary Equipment:		
Tool Name and Serial Number	ADN6 – CA	FE55
Collar Type and Serial Number	ADDC – AA	FE55
Chassis Type and Serial Number	ADSE – EA	380
Neutron Logging Source	NSR – M	202
Density Logging Source	GSR – J/Z	1994
Stabilizer Size	8.25 – in.	
Calibration Status	Valid	

Master: 4-Jan-2005 21:40									
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	<div></div>			1041	Master	<div></div>			2505
	250.0	4125	8000			700.0	9350	18000	
	(Minimum)	(Nominal)	(Maximum)			(Minimum)	(Nominal)	(Maximum)	
Phase	SS window 3 – Mg CPS			Value	Phase	SS window 3 – Mg CPS			Value
Master	<div></div>			6228	Master	<div></div>			6228
	2500	23750	45000			2500	23750	45000	
	(Minimum)	(Nominal)	(Maximum)			(Minimum)	(Nominal)	(Maximum)	

Master: 4-Jan-2005 21:40									
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	<div></div>			156.5	Master	<div></div>			1275
Phase	SS window 3 – Al CPS			Value	Phase	SS window 3 – Al CPS			Value
Master	<div></div>			3922	Master	<div></div>			3922

50.00	725.0	1400	500.0	4250	8000	1500	15750	30000
(Minimum)	(Nominal)	(Maximum)	(Minimum)	(Nominal)	(Maximum)	(Minimum)	(Nominal)	(Maximum)

Master: 4-Jan-2005 21:40											
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			51.03	Master			129.8	Master			563.0
	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: 4-Jan-2005 21:40									
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				1.029	Master				1.116
	1.024 (Minimum)	1.039 (Nominal)	1.054 (Maximum)			1.096 (Minimum)	1.126 (Nominal)	1.156 (Maximum)	

Master: 4-Jan-2005 21:40							
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			1.068	Master			0.06511
	0.8000 (Minimum)	1.050 (Nominal)	1.300 (Maximum)		-1.000 (Minimum)	0 (Nominal)	1.000 (Maximum)
Phase	Far 1 tube 2 gain		Value	Phase	Far 1 tube 2 offset CPS		Value
Master			1.013	Master			-0.03114
	0.8000 (Minimum)	1.050 (Nominal)	1.300 (Maximum)		-1.000 (Minimum)	0 (Nominal)	1.000 (Maximum)
Phase	Far 1 tube 3 gain		Value	Phase	Far 1 tube 3 offset CPS		Value
Master			1.039	Master			0.01313
	0.8000 (Minimum)	1.050 (Nominal)	1.300 (Maximum)		-1.000 (Minimum)	0 (Nominal)	1.000 (Maximum)
Phase	Far 2 tube 1 gain		Value	Phase	Far 2 tube 1 offset CPS		Value
Master			1.096	Master			0.07837
	0.8000 (Minimum)	1.050 (Nominal)	1.300 (Maximum)		-1.000 (Minimum)	0 (Nominal)	1.000 (Maximum)
Phase	Far 2 tube 2 gain		Value	Phase	Far 2 tube 2 offset CPS		Value
Master			0.9974	Master			-0.1285
	0.8000 (Minimum)	1.050 (Nominal)	1.300 (Maximum)		-1.000 (Minimum)	0 (Nominal)	1.000 (Maximum)
Phase	Far 2 tube 3 gain		Value	Phase	Far 2 tube 3 offset CPS		Value
Master			1.042	Master			0.1064
	0.8000 (Minimum)	1.050 (Nominal)	1.300 (Maximum)		-1.000 (Minimum)	0 (Nominal)	1.000 (Maximum)
Phase	Near 1 tube 1 gain		Value	Phase	Near 1 tube 1 offset CPS		Value
Master			0.9812	Master			-40.77
	0.8000 (Minimum)	1.050 (Nominal)	1.300 (Maximum)		-100.0 (Minimum)	0 (Nominal)	100.0 (Maximum)
Phase	Near 2 tube 1 gain		Value	Phase	Near 2 tube 1 offset CPS		Value
Master			0.9674	Master			-32.21
	0.8000 (Minimum)	1.050 (Nominal)	1.300 (Maximum)		-100.0 (Minimum)	0 (Nominal)	100.0 (Maximum)

Master: 4-Jan-2005 21:40		
6.75-in. Azimuthal Density Neutron Calibration		
Neutron: Water Block Check		
Phase	Far Neutron water porosity PU	Value

Master			103.2
90.00 (Minimum)	100.0 (Nominal)	125.0 (Maximum)	

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

Primary Equipment:

Tool Name and Serial Number

RAB6 - CA

191

Calibration Status

Valid

Master: 28-Jan-2005 18:29

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			0.9967	Master			0.9942	Master			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	M0/T2 factor		Value	Phase	M2/T1 factor		Value	Phase	M2/T2 factor		Value
Master			1.004	Master			1.007	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	BTN shallow/T1 factor		Value	Phase	BTN shallow/T2 factor		Value	Phase	BTN medium/T1 factor		Value
Master			1.003	Master			0.9999	Master			0.9950
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			0.9919	Master			1.012	Master			1.009
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-Jan-2005 18:29

6.75-in. Resistivity At-the-Bit Calibration											
Gamma Ray: Blanket											
Phase	Gamma ray factor										Value
Master											0.9256
0.7500 (Minimum)											1.250 (Maximum)

SCHLUMBERGER

Survey report

6-Mar-2005 15:10:58

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Client.....: ESSO
Field.....: Barracouta

Well.....: BTA-A4A
API number.....:
Engineer.....: K.Handley, M.Y.Tan, R.Burns

Rig.....: ENSCO 102
STATE.....: Victoria

Spud date.....: 24-Feb-05
Last survey date.....: 06-Mar-05
Total accepted surveys...: 63
MD of first survey.....: 344.00 m
MD of last survey.....: 2108.00 m

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

----- Geomagnetic data -----
Magnetic model.....: BGGM version 2004
Magnetic date.....: 22-Feb-2005

----- Depth reference -----
 Permanent datum.....: Mean Sea Level
 Depth reference.....: Driller's Depth
 GL above permanent.....: -45.70 m
 KB above permanent.....: Top Drive
 DF above permanent.....: 56.00 m

----- Vertical section origin-----
 Latitude (+N/S-).....: 0.85 m
 Departure (+E/W-).....: 8.53 m

----- Platform reference point-----
 Latitude (+N/S-).....: -304.57 m
 Departure (+E/W-).....: -304.57 m

Azimuth from Vsect Origin to target: 76.22 degrees

Magnetic field strength...: 1201.43 HCONT
 Magnetic dec (+E/W-).....: 12.97 degrees
 Magnetic dip.....: -68.87 degrees

----- MWD survey Reference Criteria -----
 Reference G.....: 1000.03 mGal
 Reference H.....: 1201.43 HCONT
 Reference Dip.....: -68.87 degrees
 Tolerance of G.....: (+/-) 2.50 mGal
 Tolerance of H.....: (+/-) 6.00 HCONT
 Tolerance of Dip.....: (+/-) 0.45 degrees

----- Corrections -----
 Magnetic dec (+E/W-).....: 12.97 degrees
 Grid convergence (+E/W-)..: -0.42 degrees
 Total az corr (+E/W-).....: 13.39 degrees
 (Total az corr = magnetic dec - grid conv)
 Survey Correction Type ...:
 I=Sag Corrected Inclination
 M=Schlumberger Magnetic Correction
 S=Shell Magnetic Correction
 F=Failed Axis Correction
 R=Magnetic Resonance Tool Correction
 D=Dmag Magnetic Correction

[[c)2005 IDEAL ID9_1C_02]
 SCHLUMBERGER Survey Report

6-Mar-2005 15:10:58

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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 Corr (deg)
1	344.00	0.25	235.37	0.00	343.99	0.73	0.55	9.36	9.38	86.64	0.00	TIP	None
2	351.60	3.14	130.65	7.60	351.59	0.84	0.40	9.50	9.51	87.56	4.23	GYR	None
3	371.56	6.26	115.73	19.96	371.48	2.00	-0.42	10.90	10.91	92.23	1.67	MWD	None
4	400.60	10.44	98.23	29.04	400.21	5.66	-1.49	14.93	15.01	95.69	1.67	GYR	None
5	430.00	13.39	92.42	29.40	428.97	11.40	-2.01	20.97	21.07	95.48	1.08	MWD	None
6	458.41	16.35	82.38	28.41	456.43	18.54	-1.62	28.22	28.27	93.29	1.38	MWD	None
7	487.44	19.21	75.25	29.03	484.08	27.38	0.14	36.90	36.90	89.79	1.24	MWD	None
8	516.58	22.78	75.14	29.14	511.28	37.82	2.80	46.99	47.07	86.58	1.23	MWD	None
9	545.52	27.31	73.86	28.94	537.49	50.06	6.09	58.79	59.10	84.09	1.58	MWD	None
10	574.63	31.33	72.34	29.11	562.87	64.29	10.24	72.42	73.14	81.95	1.40	MWD	None
11	603.86	34.81	75.42	29.23	587.36	80.22	14.65	87.74	88.95	80.52	1.32	MWD	None
12	632.38	38.27	75.46	28.52	610.27	97.19	18.92	104.17	105.88	79.71	1.21	MWD	None
13	661.80	41.30	75.07	29.42	632.87	116.01	23.71	122.38	124.65	79.04	1.03	MWD	None
14	691.10	45.16	74.90	29.30	654.22	136.07	28.91	141.76	144.67	78.47	1.32	MWD	None
15	719.99	48.91	74.32	28.89	673.90	157.20	34.52	162.13	165.77	77.98	1.31	MWD	None
16	749.12	52.83	74.48	29.13	692.28	179.78	40.59	183.89	188.32	77.55	1.35	MWD	None
17	778.33	56.53	75.07	29.21	709.17	203.61	46.85	206.89	212.13	77.24	1.28	MWD	None
18	806.73	58.42	75.06	28.40	724.44	227.54	53.02	230.02	236.05	77.02	0.67	MWD	None
19	826.51	60.05	75.43	19.78	734.56	244.54	57.35	246.46	253.04	76.90	0.84	MWD	None
20	857.08	60.11	75.02	30.57	749.80	271.03	64.11	272.08	279.53	76.74	0.12	MWD	None
21	885.76	61.34	74.96	28.68	763.83	296.04	70.58	296.24	304.53	76.60	0.43	MWD	None
22	914.88	60.95	74.82	29.12	777.88	321.54	77.23	320.86	330.03	76.47	0.14	MWD	None
23	943.53	60.68	75.21	28.65	791.85	346.55	83.70	345.03	355.03	76.36	0.15	MWD	None
24	972.56	59.77	76.43	29.03	806.27	371.74	89.87	369.45	380.23	76.33	0.48	MWD	None
25	1001.50	59.54	77.10	28.94	820.89	396.72	95.59	393.77	405.20	76.35	0.22	MWD	None
26	1030.64	59.11	76.93	29.14	835.76	421.78	101.22	418.19	430.26	76.39	0.16	MWD	None
27	1059.78	57.85	76.77	29.14	850.99	446.61	106.87	442.38	455.10	76.42	0.43	MWD	None
28	1089.10	58.34	76.70	29.32	866.49	471.50	112.59	466.60	479.99	76.43	0.17	MWD	None
29	1118.03	59.62	78.08	28.93	881.39	496.29	118.00	490.80	504.78	76.48	0.60	MWD	None
30	1147.18	61.65	77.56	29.15	895.69	521.68	123.36	515.63	530.18	76.55	0.71	MWD	None

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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 Corr (deg)
31	1176.44	62.74	77.42	29.26	909.34	547.56	128.96	540.89	556.06	76.59	0.37	MWD	None
32	1205.78	63.29	77.18	29.34	922.65	573.70	134.71	566.40	582.20	76.62	0.20	MWD	None
33	1234.51	63.22	77.02	28.75	935.59	599.37	140.44	591.43	607.87	76.64	0.06	MWD	None
34	1263.41	63.32	74.80	28.88	948.58	625.16	146.72	616.44	633.66	76.61	0.69	MWD	None
35	1292.28	62.74	73.74	28.87	961.67	650.88	153.70	641.21	659.37	76.52	0.38	MWD	None
36	1321.68	61.29	72.83	29.40	975.47	676.80	161.16	666.07	685.29	76.40	0.56	MWD	None
37	1350.51	60.59	72.52	28.83	989.47	701.95	168.67	690.13	710.44	76.27	0.26	MWD	None
38	1379.66	60.36	72.02	29.15	1003.84	727.26	176.39	714.29	735.75	76.13	0.17	MWD	None
39	1408.57	60.11	72.24	28.91	1018.19	752.29	184.09	738.18	760.78	76.00	0.11	MWD	None
40	1437.70	60.53	73.72	29.13	1032.61	777.56	191.50	762.37	786.06	75.90	0.46	MWD	None
41	1466.67	60.32	73.21	28.97	1046.91	802.72	198.67	786.53	811.23	75.82	0.17	MWD	None
42	1494.99	59.98	74.68	28.32	1061.01	827.27	205.46	810.13	835.78	75.77	0.47	MWD	None
43	1524.16	60.08	76.01	29.17	1075.58	852.53	211.85	834.58	861.05	75.76	0.40	MWD	None
44	1553.56	60.34	75.95	29.40	1090.19	878.05	218.04	859.33	886.56	75.76	0.09	MWD	None
45	1582.31	59.93	76.35	28.75	1104.50	902.98	224.00	883.54	911.49	75.77	0.19	MWD	None

46	1611.11	60.27	75.83	28.80	1118.86	927.95	230.01	907.77	936.46	75.78	0.20	MWD	None
47	1640.37	60.83	76.43	29.26	1133.25	953.42	236.11	932.51	961.94	75.79	0.26	MWD	None
48	1669.37	61.92	76.44	29.00	1147.14	978.88	242.08	957.25	987.39	75.81	0.38	MWD	None
49	1697.95	61.74	77.55	28.58	1160.63	1004.07	247.75	981.80	1012.58	75.84	0.35	MWD	None
50	1727.34	61.10	76.95	29.39	1174.69	1029.88	253.45	1006.98	1038.38	75.87	0.28	MWD	None
51	1756.52	60.74	76.03	29.18	1188.87	1055.38	259.41	1031.77	1063.88	75.89	0.30	MWD	None
52	1785.84	61.68	75.81	29.32	1202.99	1081.07	265.66	1056.69	1089.58	75.89	0.33	MWD	None
53	1814.73	60.60	74.63	28.89	1216.94	1106.37	272.11	1081.16	1114.88	75.87	0.52	MWD	None
54	1843.93	59.17	75.44	29.20	1231.59	1131.62	278.63	1105.56	1140.13	75.85	0.55	MWD	None
55	1873.01	60.22	75.24	29.08	1246.26	1156.72	284.99	1129.85	1165.24	75.84	0.37	MWD	None
56	1901.51	60.30	75.12	28.50	1260.40	1181.47	291.32	1153.77	1189.98	75.83	0.05	MWD	None
57	1930.50	59.14	74.53	28.99	1275.02	1206.49	297.87	1177.93	1215.01	75.81	0.44	MWD	None
58	1959.59	60.04	74.44	29.09	1289.74	1231.57	304.58	1202.11	1240.09	75.78	0.31	MWD	None
59	1988.62	60.66	73.85	29.03	1304.10	1256.78	311.47	1226.37	1265.31	75.75	0.28	MWD	None
60	2017.48	61.16	73.65	28.86	1318.14	1281.98	318.53	1250.59	1290.51	75.71	0.18	MWD	None

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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 Corr (deg)
61	2046.69	59.38	74.45	29.21	1332.62	1307.32	325.50	1274.97	1315.87	75.68	0.65	MWD	None
62	2075.98	59.44	74.58	29.29	1347.53	1332.52	332.24	1299.27	1341.08	75.66	0.04	MWD	None
63	2108.00	59.44	74.48	32.02	1363.81	1360.08	339.59	1325.84	1368.64	75.63	0.03	Projection to TD	

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Company: **ESSO Australia Pty. Ltd.**

Schlumberger

Well: **BTA-A4A**

Field: **Barracouta**

Rig: **ENSCO 102**

8.5 in. Section

State: **Victoria**

**GeoVISION Resistivity
1:200 True Vertical Depth
Recorded Mode Log**

