



Thank You for Choosing Schlumberger

EQUIPMENT DESCRIPTION

RUN1

RUN

RUN

DOWNHOLE EQUIPMENT

6-3/4 in. PowerPulse*		23.71
MDC: 401-AB		
MEC: 1540-BB		
MDI: 1556-CA		
MGR: 146-AA		
DHS: 7.0C00		
	D&I	19.40
	GR	18.75
6-5/8 in. NM Pony		15.28
S/N: ASS15700		
6-7/16 in. NM Pony		13.72
S/N: 9612058		
8-3/8 in. NM Roller Reamer		11.27
S/N: GU2298		
7 in. PowerPak* Motor		9.19
A700GT 7:8		
S/N: N7268		
1.50 deg. Bent Housing		
8-3/8 in. Motor Sleeve		



— 0.00

0.22

Smith PDC Bit  
OD: 8–1/2 in.  
S73PX S/N: JT6967–R1  
  
Maximum string diameter 8.50 in.  
All lengths in Meters

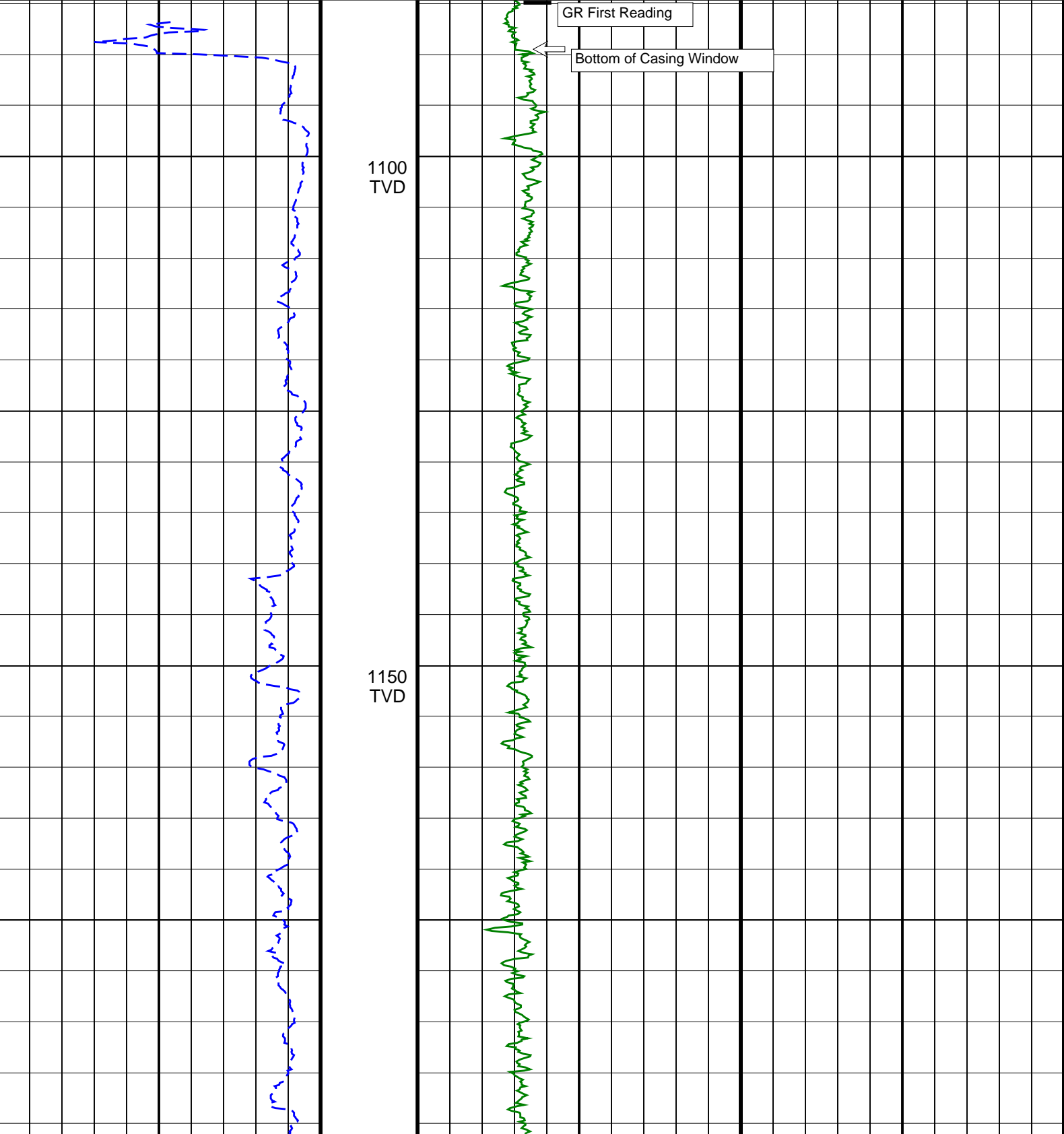
# Bit Run Summary

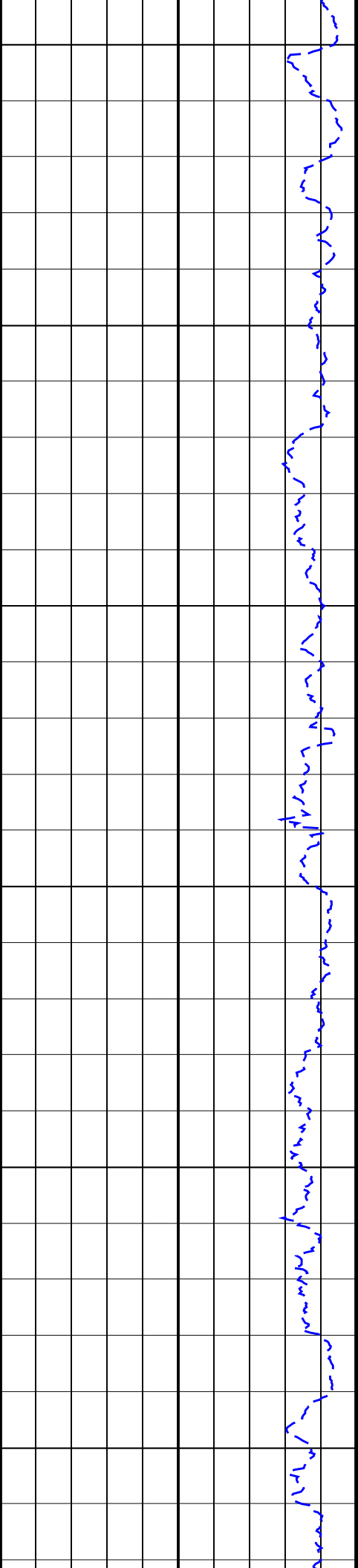
Run number		1									
Bit size	in.	8.5									
Bit start depth	m	1217.6									
Bit end depth	m	2262.0									
Top interval logged	m	1217.6									
Bottom interval logged	m	2243.3									
Begin log: time		14:30									
Begin log: date		07–Feb–05									
End log: time		03:17									
End log: date		11–Feb–05									
Mud data											
Depth	m	2262.0									
Type		KCl/PHPA/Glyc.									
Mud weight	ppg	10.1									
Solids	%	8.2									
Chlorides	mg/L	49,000									
Rm		N/A									
Rmf		N/A									
Rmc		N/A									
Potassium	%	4.2									
Environmental data											
GR											
Mud weight	ppg	10.1									
Bit size	in.	8.5									
Resistivity											
Neutron porosity											
Hole Size											
Mud weight											
Temperature											
Mud salinity											
Formation salinity											
Recording rate 1	SEC	4.14									
Recording rate 2	SEC	N/A									
Filtering GR		3 pt									
Filtering density											
Filtering Neutron											
Company representative		T. Basset	B. Davis								
Anadrill personnel		D. Hastie	R. Borjas	C. Cocks	T. Auger						

# TNA A3A RT 1:500TVD

IDEAL Version: ID9\_1C\_01 <TVD> Vertical Scale: 1:500 Graphics File Created: 11-Feb-2005 16:25

ROP*5 (ROP5) (M/HR)	GR(TM) (GRM1) (GAPI)
200	0
0	400

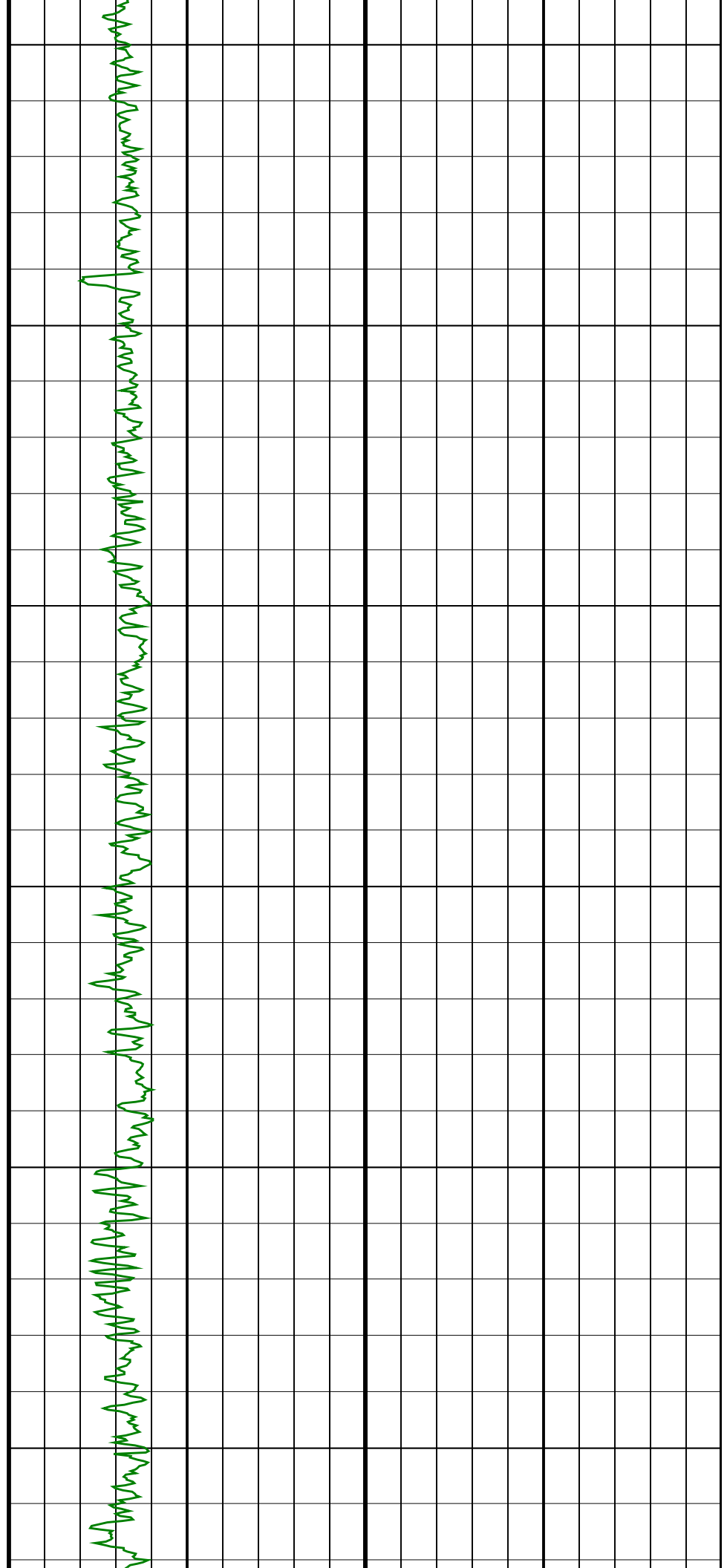




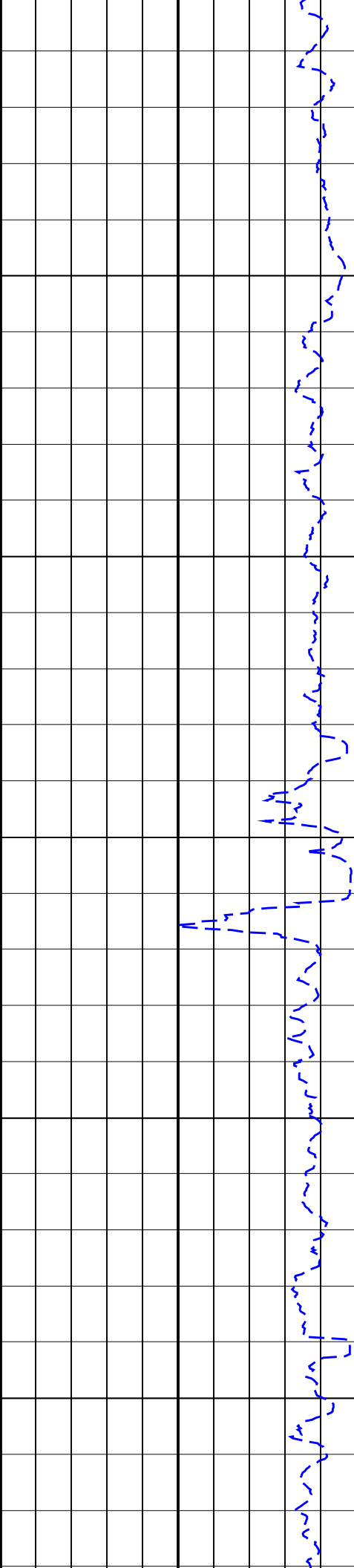
1200  
TVD

1250  
TVD

1300  
TVD



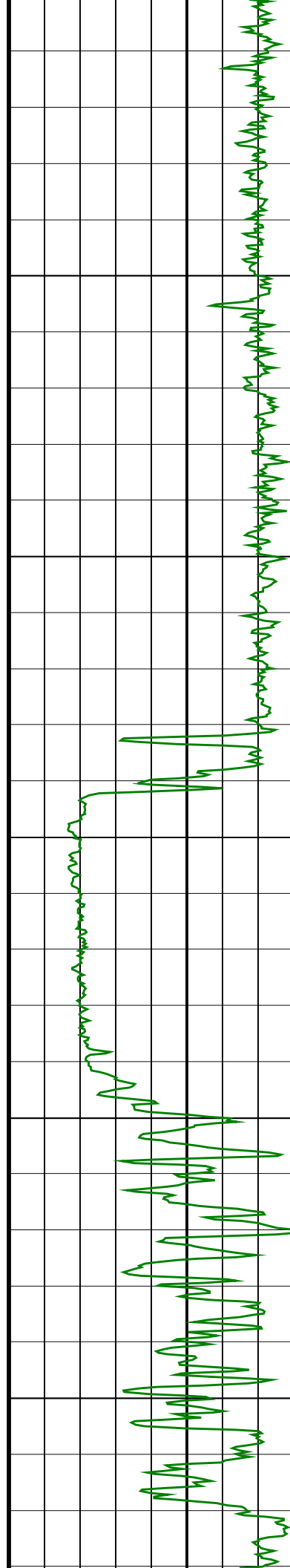


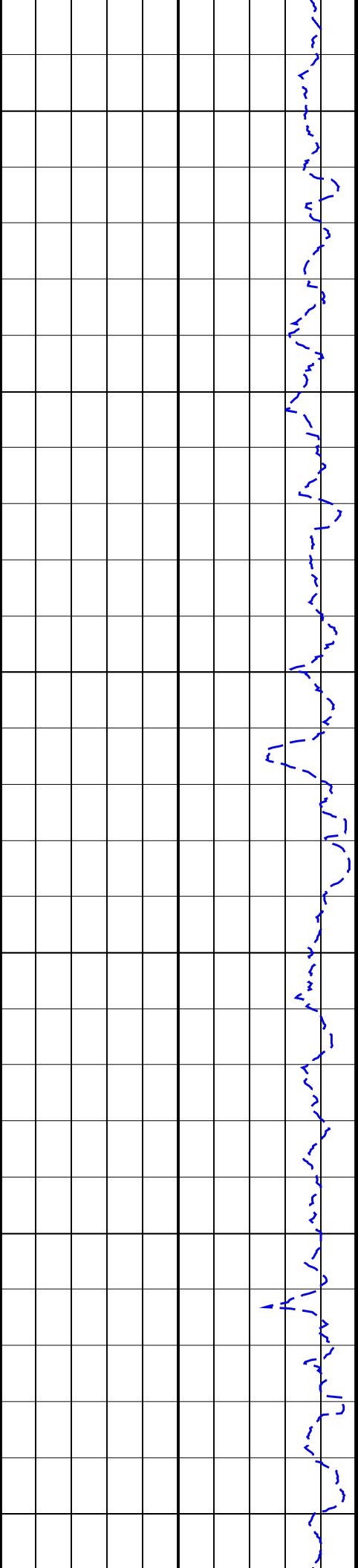


1500  
TVD

1550  
TVD

1600  
TVD

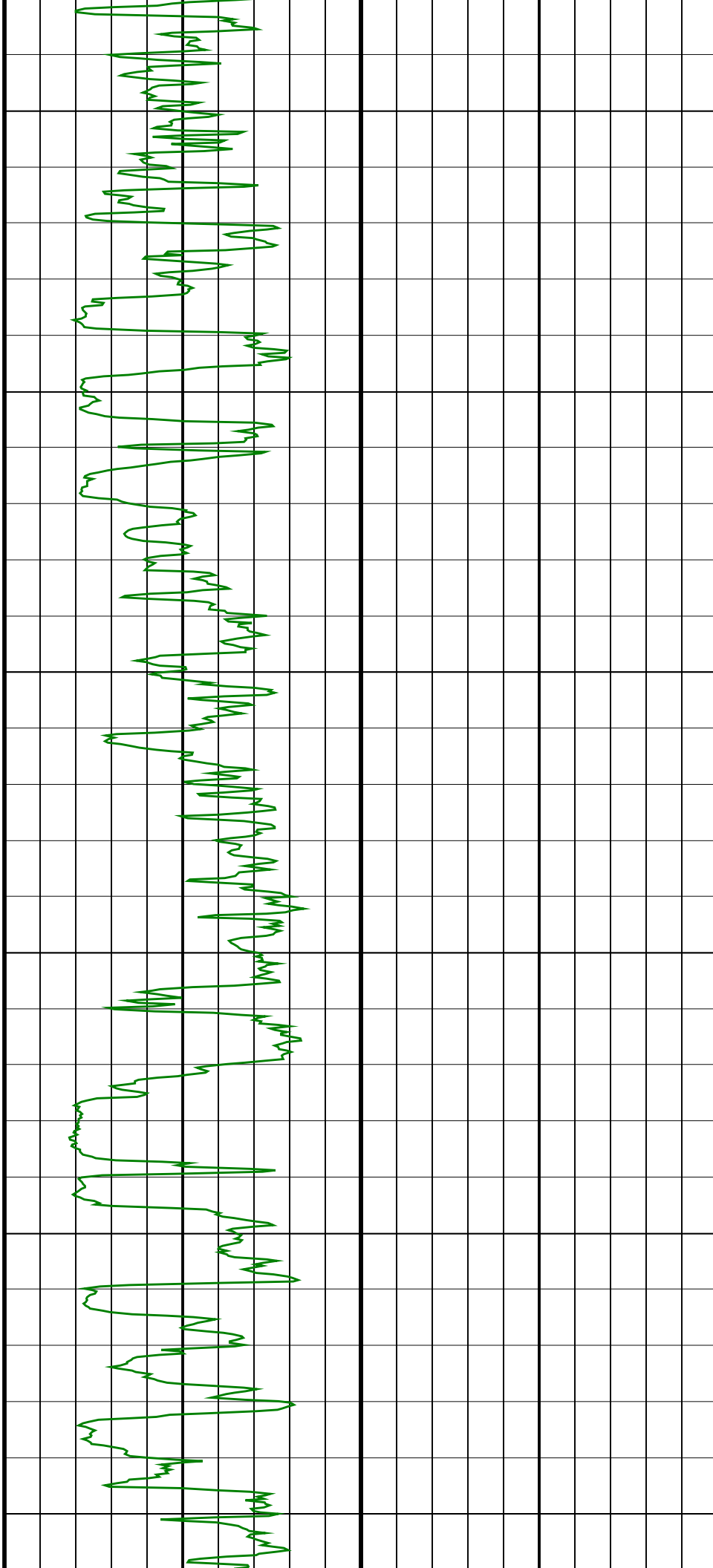




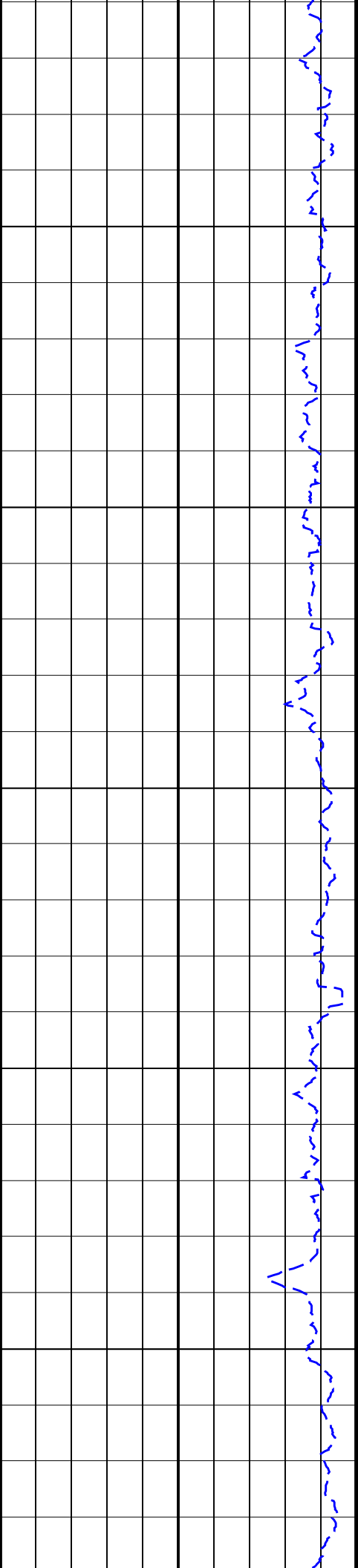
1650  
TVD

1700  
TVD

1750  
TVD

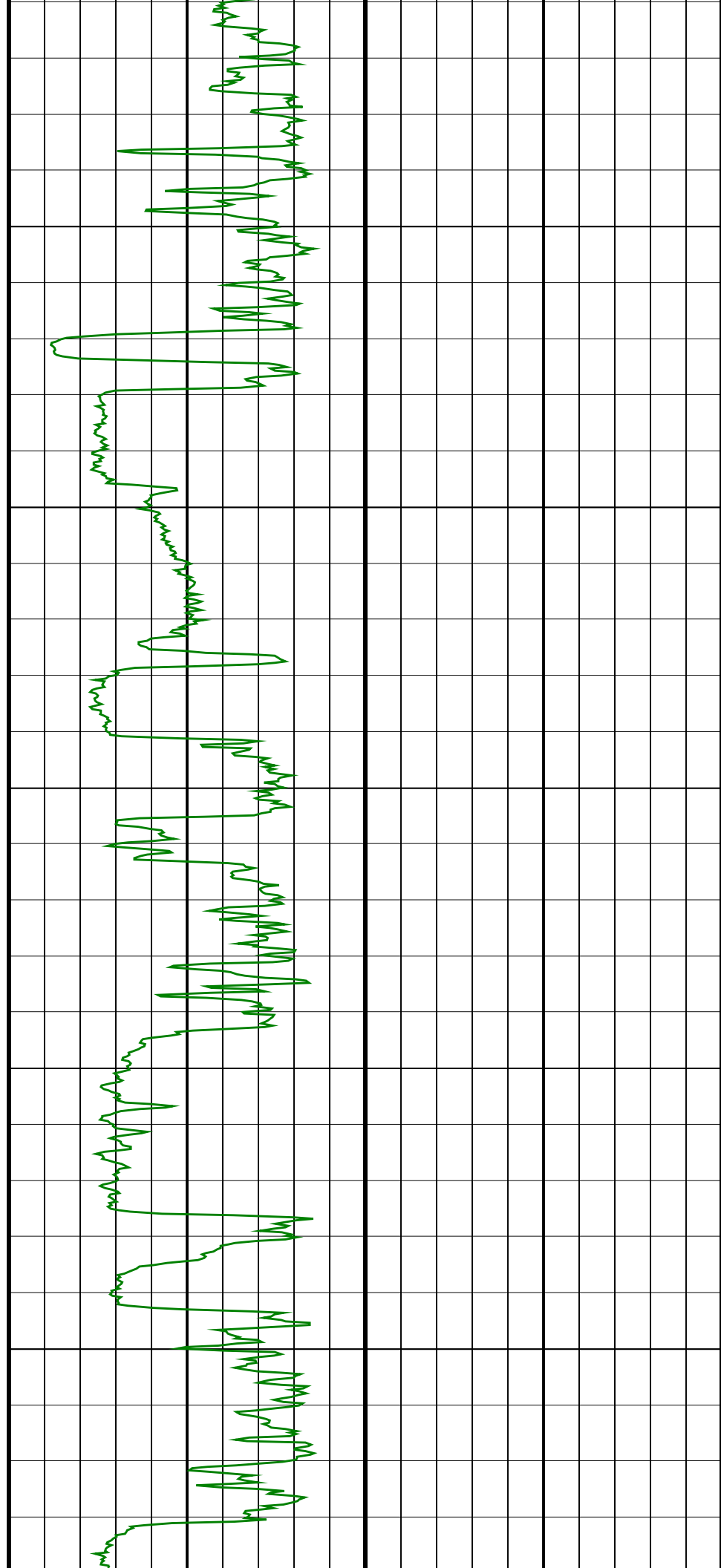


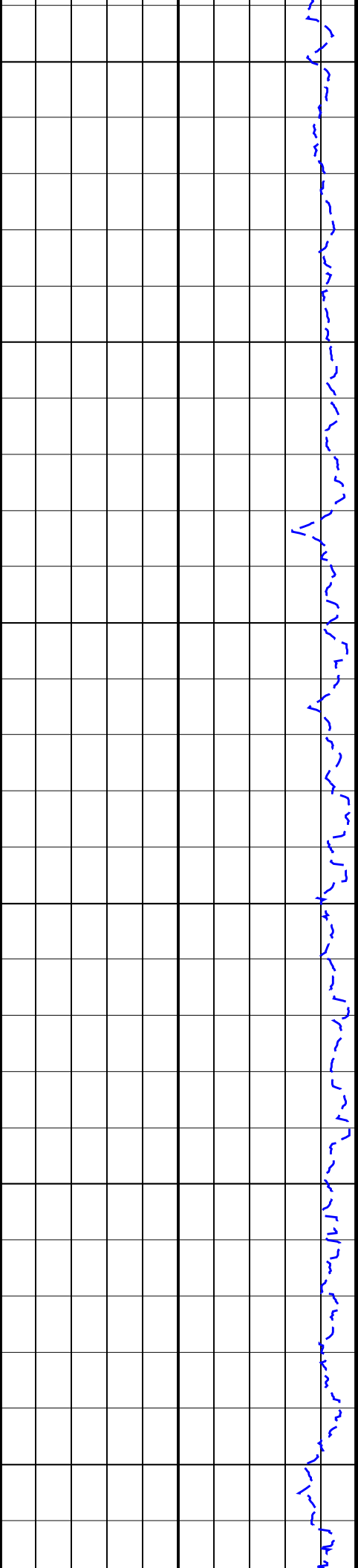




1800  
TVD

1850  
TVD

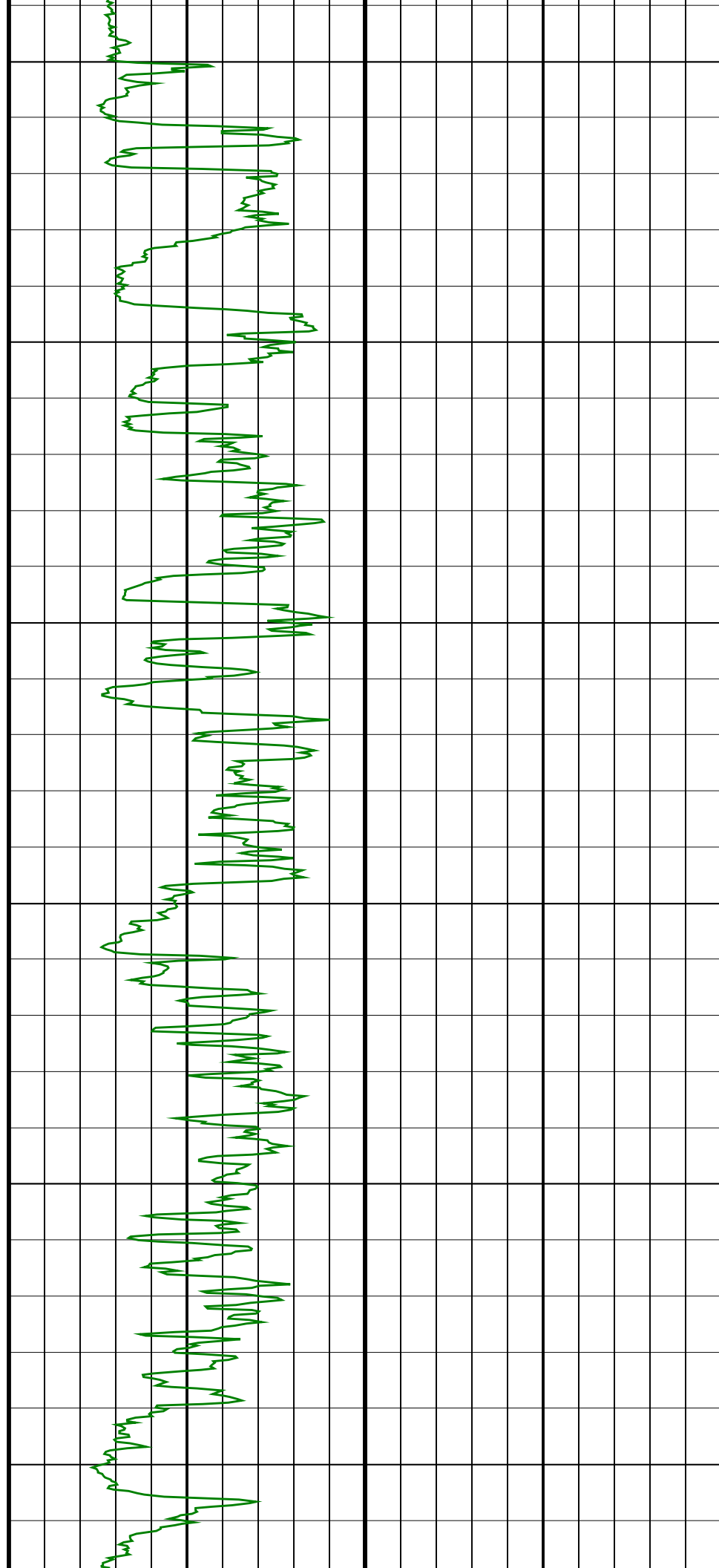


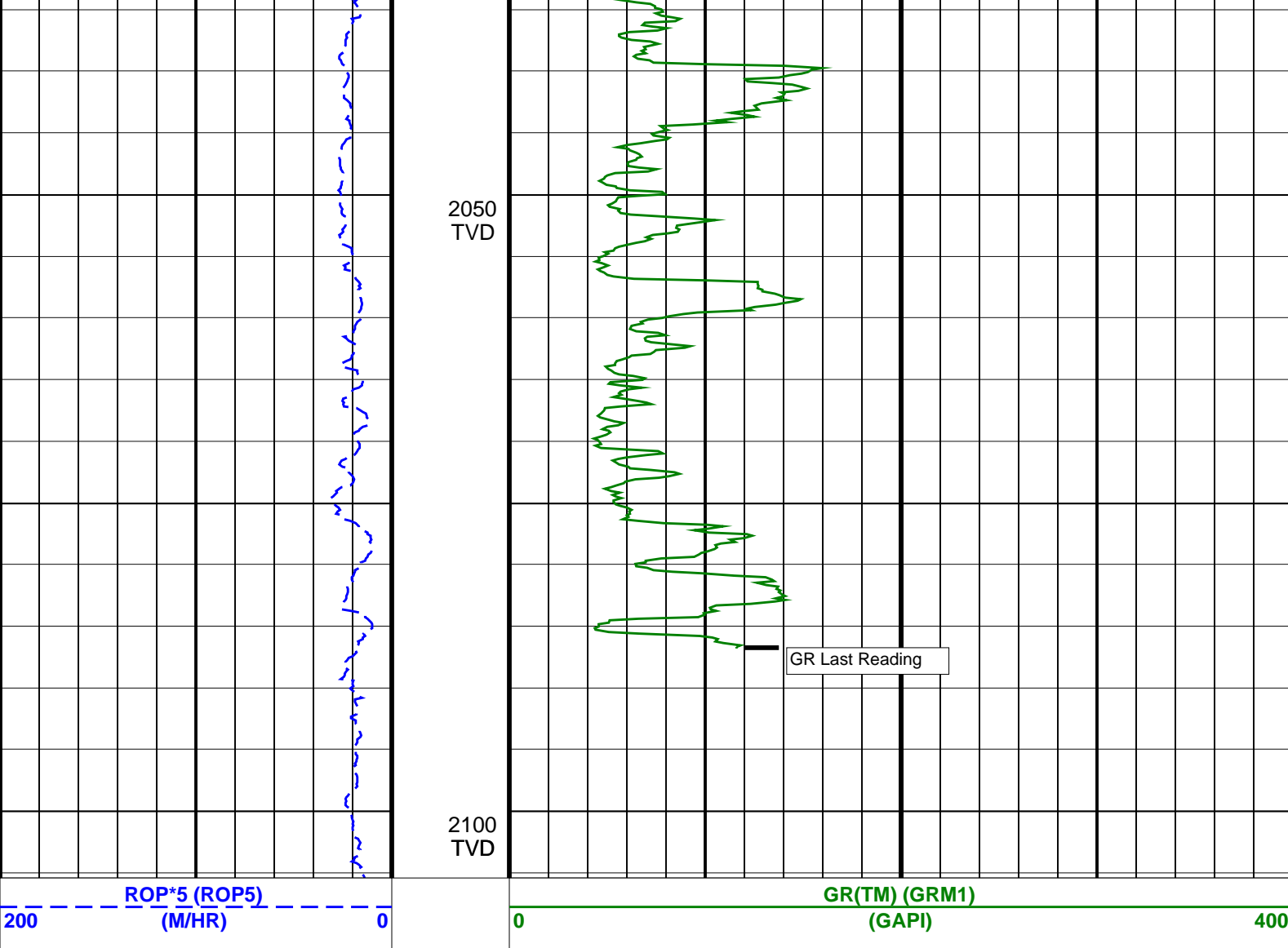


1900  
TVD

1950  
TVD

2000  
TVD





SCHLUMBERGER

Survey report

11-Feb-2005 13:13:21

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Client.....: ESSO Australia Pty. Ltd.  
Field.....: Tuna

Well.....: TNA A3A  
API number.....: N/A  
Engineer.....: D.Hastie, R.Borjas.

Rig:.....: ISDL 453  
State:.....: Victoria

Spud date.....: 06-Feb-05  
Last survey date.....: 11-Feb-05  
Total accepted surveys...: 37  
MD of first survey.....: 1213.42 m  
MD of last survey.....: 2262.00 m

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

----- Geomagnetic data -----  
Magnetic model.....: BGM version 2004  
Magnetic date.....: 05-Feb-2005  
Magnetic field strength...: 1198.22 HCNT  
Magnetic dec (+E/W-).....: 13.23 degrees  
Magnetic dip.....: -68.65 degrees

----- Depth reference -----  
Permanent datum.....: Mean Sea Level  
Depth reference.....: Driller's Depth  
GL above permanent.....: -59.40 m  
KB above permanent.....: TopDrive  
DF above permanent.....: 31.32 m

----- MWD survey Reference Criteria -----  
Reference G.....: 1000.02 mGal  
Reference H.....: 1198.22 HCNT  
Reference Dip.....: -68.65 degrees  
Tolerance of G.....: (+/-) 2.50 mGal  
Tolerance of H.....: (+/-) 6.00 HCNT  
Tolerance of Dip.....: (+/-) 0.45 degrees

----- Vertical section origin-----  
Latitude (+N/S-).....: 0.14 m  
Departure (+E/W-).....: 4.27 m

----- Platform reference point-----  
Latitude (+N/S-).....: 5774409.61 m  
Departure (+E/W-).....: 624341.44 m

Azimuth from Vsect Origin to target: 290.88 degrees

----- Corrections -----  
Magnetic dec (+E/W-).....: 13.23 degrees  
Grid convergence (+E/W-)..: -0.88 degrees  
Total az corr (+E/W-).....: 14.11 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

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/ 100f)	Srvy tool type	Tool Corr (deg)
1	1213.42	38.83	284.98	0.00	1081.26	451.28	114.42	-435.14	449.93	284.73	0.00	TIP	None
2	1296.11	26.92	289.04	82.69	1150.59	495.95	127.28	-478.04	494.69	284.91	4.46	MWD	None
3	1306.49	25.31	291.01	10.39	1159.92	500.52	128.84	-482.33	499.25	284.96	5.36	MWD	None
4	1335.11	24.76	289.29	28.61	1185.84	512.62	133.01	-493.70	511.30	285.08	0.97	MWD	None
5	1363.48	20.38	290.09	28.37	1212.03	523.51	136.67	-503.95	522.15	285.17	4.72	MWD	None
6	1392.54	16.76	290.56	29.06	1239.58	532.76	139.88	-512.63	531.37	285.26	3.80	MWD	None
7	1421.10	13.52	295.99	28.56	1267.14	540.20	142.79	-519.49	538.75	285.37	3.77	MWD	None
8	1449.53	10.68	305.99	28.43	1294.94	546.06	145.80	-524.61	544.49	285.53	3.77	MWD	None
9	1478.28	8.01	319.79	28.75	1323.31	550.39	148.89	-528.06	548.65	285.75	3.68	MWD	None
10	1507.58	6.58	349.37	29.30	1352.38	553.05	152.10	-529.69	551.09	286.02	4.12	MWD	None
11	1535.84	6.15	21.45	28.26	1380.48	553.88	155.10	-529.43	551.68	286.33	3.81	MWD	None
12	1564.96	5.02	32.54	29.12	1409.46	553.61	157.63	-528.17	551.20	286.62	1.63	MWD	None
13	1593.82	3.66	19.66	28.86	1438.24	553.37	159.56	-527.19	550.80	286.84	1.76	MWD	None
14	1622.40	3.12	11.43	28.58	1466.77	553.52	161.18	-526.72	550.83	287.01	0.77	MWD	None
15	1651.14	2.95	5.66	28.74	1495.47	553.84	162.69	-526.50	551.06	287.17	0.37	MWD	None
16	1680.28	2.88	9.33	29.14	1524.57	554.19	164.16	-526.30	551.31	287.32	0.21	MWD	None
17	1708.79	2.95	6.24	28.51	1553.04	554.52	165.59	-526.11	551.55	287.47	0.18	MWD	None
18	1737.82	3.03	7.55	29.03	1582.03	554.88	167.09	-525.93	551.83	287.63	0.11	MWD	None
19	1766.11	2.90	8.01	28.29	1610.28	555.21	168.54	-525.73	552.08	287.78	0.14	MWD	None
20	1795.09	2.99	4.82	28.98	1639.23	555.59	170.02	-525.56	552.38	287.93	0.20	MWD	None
21	1823.68	3.04	4.99	28.59	1667.78	556.00	171.52	-525.43	552.72	288.08	0.05	MWD	None
22	1852.18	3.64	7.05	28.44	1696.23	556.42	173.17	-525.26	553.07	288.25	0.66	MWD	None
23	1881.10	3.62	7.87	28.98	1725.09	556.85	174.99	-525.02	553.41	288.43	0.06	MWD	None
24	1909.68	3.98	11.26	28.58	1753.61	557.22	176.85	-524.70	553.71	288.63	0.45	MWD	None
25	1938.49	3.85	16.31	28.81	1782.35	557.46	178.76	-524.24	553.88	288.83	0.39	MWD	None
26	1967.45	3.90	16.65	28.96	1811.24	557.61	180.64	-523.68	553.96	289.03	0.06	MWD	None
27	1996.03	3.86	20.05	28.58	1839.76	557.70	182.47	-523.07	553.99	289.23	0.26	MWD	None
28	2024.62	3.69	17.48	28.59	1868.29	557.76	184.26	-522.46	554.00	289.43	0.26	MWD	None
29	2053.61	3.66	18.34	28.99	1897.22	557.86	186.02	-521.89	554.05	289.62	0.07	MWD	None
30	2082.14	3.77	17.32	28.53	1925.69	557.96	187.78	-521.33	554.11	289.81	0.14	MWD	None

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SCHLUMBERGER Survey Report

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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/ 100f)	Srvy tool type	Tool Corr (deg)
31	2111.10	3.67	16.78	28.96	1954.59	558.08	189.58	-520.77	554.21	290.00	0.11	MWD	None
32	2139.54	3.42	16.22	28.44	1982.97	558.22	191.27	-520.27	554.32	290.18	0.27	MWD	None
33	2167.93	3.33	21.67	28.39	2011.31	558.27	192.85	-519.73	554.36	290.36	0.36	MWD	None
34	2196.39	3.19	26.00	28.46	2039.73	558.19	194.33	-519.08	554.26	290.52	0.30	MWD	None
35	2224.95	3.16	25.76	28.56	2068.24	558.05	195.75	-518.39	554.12	290.69	0.04	MWD	None
36	2241.93	3.10	23.43	16.98	2085.20	557.99	196.59	-518.00	554.05	290.78	0.25	MWD	None
37	2262.00	3.10	23.43	20.07	2105.24	557.95	197.59	-517.57	554.01	290.89	0.00	MWD	None

Projection to TD

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Company: **ESSO Australia Pty. Ltd.****Schlumberger**Well: **TNA A3A**Field: **Tuna**Rig: **ISDL 453**State: **Victoria****Gamma Ray Service****1:500 True Vertical Depth****Real Time Log**

