

Company:

Schlumberger

Japan Agency for Marine-Earth Science and Technology

Well: C0001D

8 1/2 in. LWD Hole

Field: Nankai-Kumano

Rig: Chikyu

Country: Japan

Drilling Parameters Log

Real Time Log 1:500 Measured Depth

Location		Philippines Sea	K.B. Top Drive
Permanent datum:		N 33° 14.3286'	G.L. -2197.5 mMSL
Log measured from:		E 136° 42.7040'	D.F. 28.5 m
Depth reference:		Mean Sea Level	Elev.: 0 m
		Drill Floor	28.5 m above Perm. datum
		Driller's Depth	

Information updated on

06-Oct-07

Logging date	02-Oct-07	Downhole tool numbers	
Run number	1	PP VL03	
Bottom log interval	3173.8		
Top log interval	2226.0 m		
Bit size/type	8.5/PDC		
Type fluid in hole	Seawater	Frame ID:	982/983/984
Density	1.05 SG	Viscosity	82 s
Fluid loss	na	PH	11.9
Source of sample	na		
Rm @ measured temperature	0.08	@	24 °C
Rmf @ measured temperature	na	@	
Rmc @ measured temperature	na	@	
Source Rmf	na	na	
Rm @ E.B.H.T.	na	@	na
Estimated B.H.T.	14 °C		
Recorded by	Mario Jakuj / Chen Xi		
Witnessed by	C. Hiramatsu / J. Gyuhwan		

Do not cut this header. It contains important information

DISCLAIMER

THE USE OF AND RELIANCE UPON THIS RECORDED-DATA BY THE HEREIN NAMED COMPANY (AND ANY OF ITS AFFILIATES, PARTNERS, REPRESENTATIVES, AGENTS, CONSULTANTS AND EMPLOYEES) IS SUBJECT TO THE TERMS AND CONDITIONS AGREED UPON BETWEEN SCHLUMBERGER AND THE COMPANY, INCLUDING: (a) RESTRICTIONS ON USE OF THE RECORDED-DATA; (b) DISCLAIMERS AND WAIVERS OF WARRANTIES AND REPRESENTATIONS REGARDING COMPANY'S USE OF AND RELIANCE UPON THE RECORDED-DATA; AND (c) CUSTOMER'S FULL AND SOLE RESPONSIBILITY FOR ANY INFERENCE DRAWN OR DECISION MADE IN CONNECTION WITH THE USE OF THIS RECORDED-DATA.

OTHER SERVICES FOR RUN 1 Cont. DNI MWD APWD	OTHER SERVICES FOR RUN	OTHER SERVICES FOR RUN
REMARKS: RUN NUMBER 1 All data provided is from Real Time Acquisition GR Measurement is corrected for bit size, hole size and mud weight. ADN was IBS with 8-1/4" OD. Neutron porosity is calculated with sandstone matrix and is corrected for bit size, borehole salinity, temperature and mud hydrogen index. Tight Spots experienced during this well	REMARKS: RUN NUMBER	REMARKS: RUN NUMBER

Right Spots experienced during this well

This is a re-spud of well C0001C

POOH due to TD called @3202m.

Pump time:90.25hrs

Drill time:54.09hrs

EQUIPMENT DESCRIPTION

RUN1

RUN

RUN

DOWNHOLE E

ADN6	SN#AC		31.6
	He Far		29.78
OD 6	He Near		29.62
BladeOD	Dens S		28.67
	Dens L		28.58
	Ultrasonic		28.19
	ROP		27.43

SEISMIC			25.4
SN#S111			
OD 6			
	ARRAY		
	ROP	16.46	

PowerB	SN#VL		20.7
OD 6			
	D&I	16.4	
	APWD	13.21	

SONICS	SN#468		12.2
OD 6			
	ARRAY	9.16	

Filtering GR	3								
Filtering density	3								
Filtering Neutron	3								
Company representative	T. Abe								
Schlumberger D&M Personnel	M. Jakulj	Chen Xi	Kai-Chi Yang						

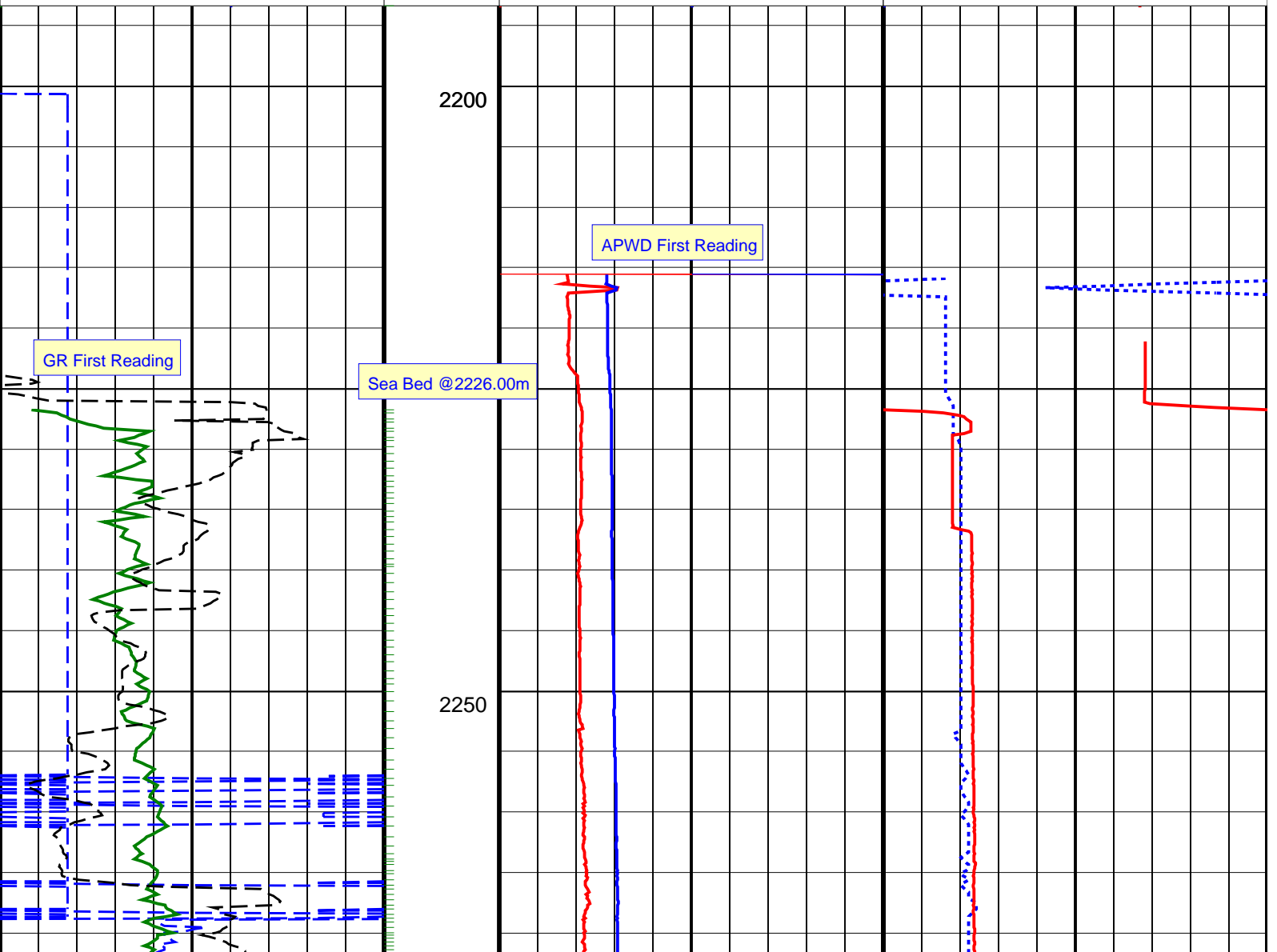
C0001D RT APWD M500

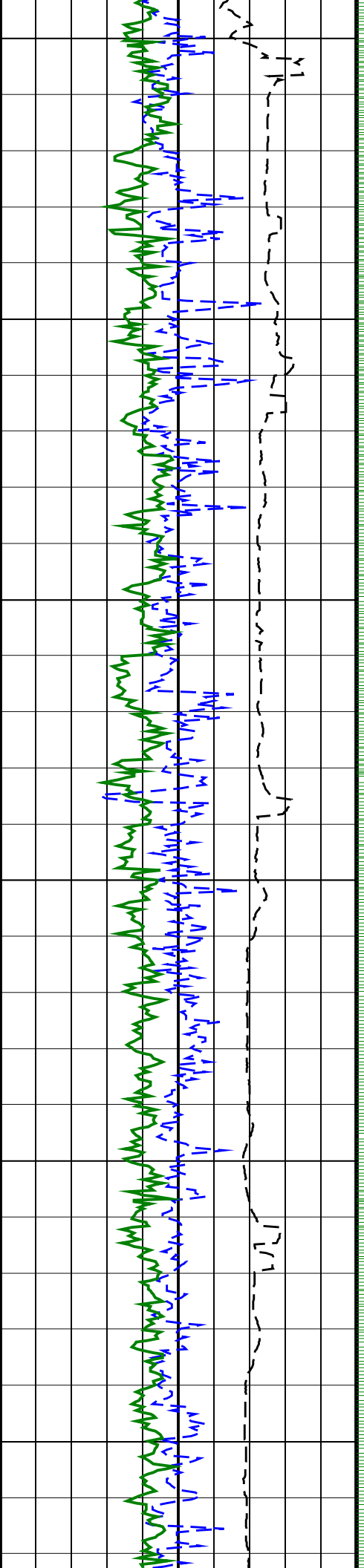
IDEAL Version: ID12_OC_12 <MD > Vertical Scale: 1:500 Graphics File Created: 23-Nov-2007 17:33

PIP SUMMARY

GRRR_R PIP

RAB Gamma Ray, Real-Time (GR_RAB_RT)					
0 (GAPI)	150				
Average Borehole Diameter, Real-Time (ADIA_ADN_RT)					
7 (IN)	12				
ROP*5 (ROP5)					
100 (M/HR)	0				
		MWD Equivalent Circulating density (ECD_MWD)		Standpipe Pressure (SPPA)	
		8 (LB/G)	10	1000 (PSI)	4000
		MWD Annulus Pressure (APRS_MWD)		MWD Annular Temperature (ATMP_MWD)	
		2000 (PSI)	6000	0 (DEGC)	50



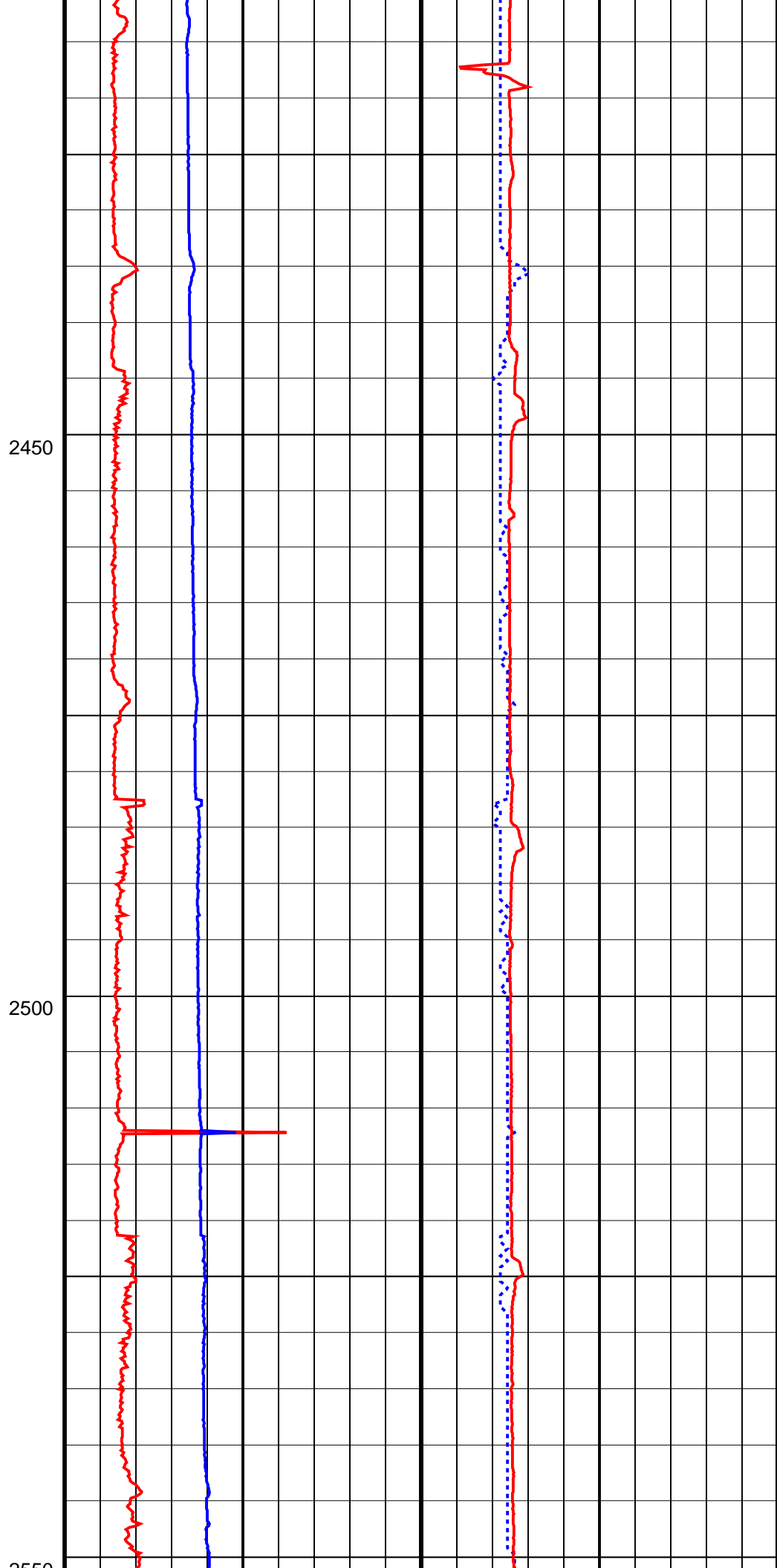
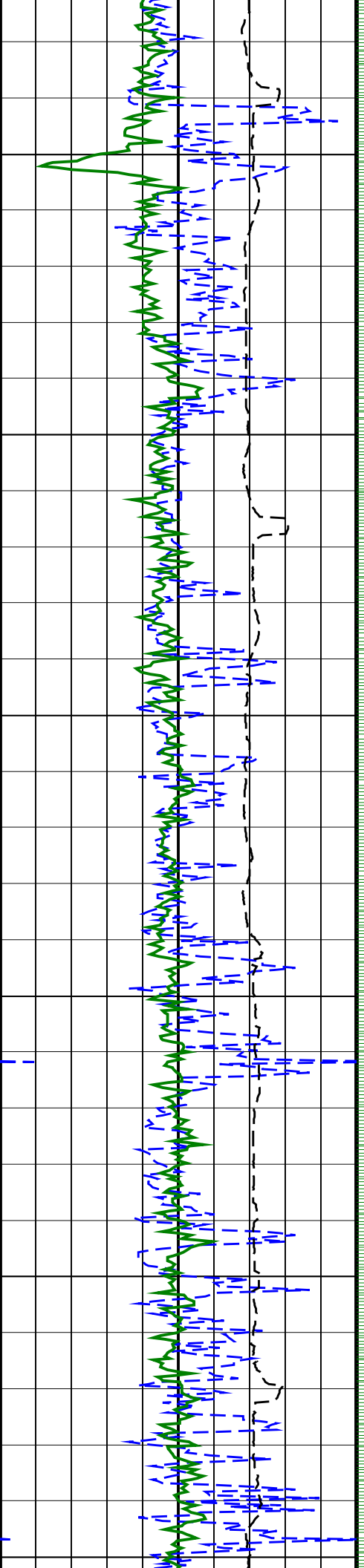


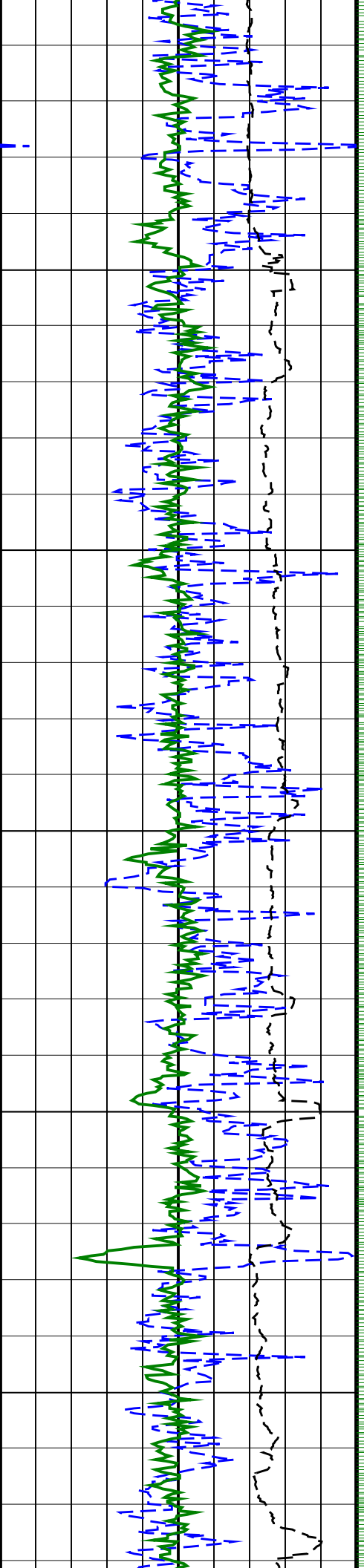
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2350

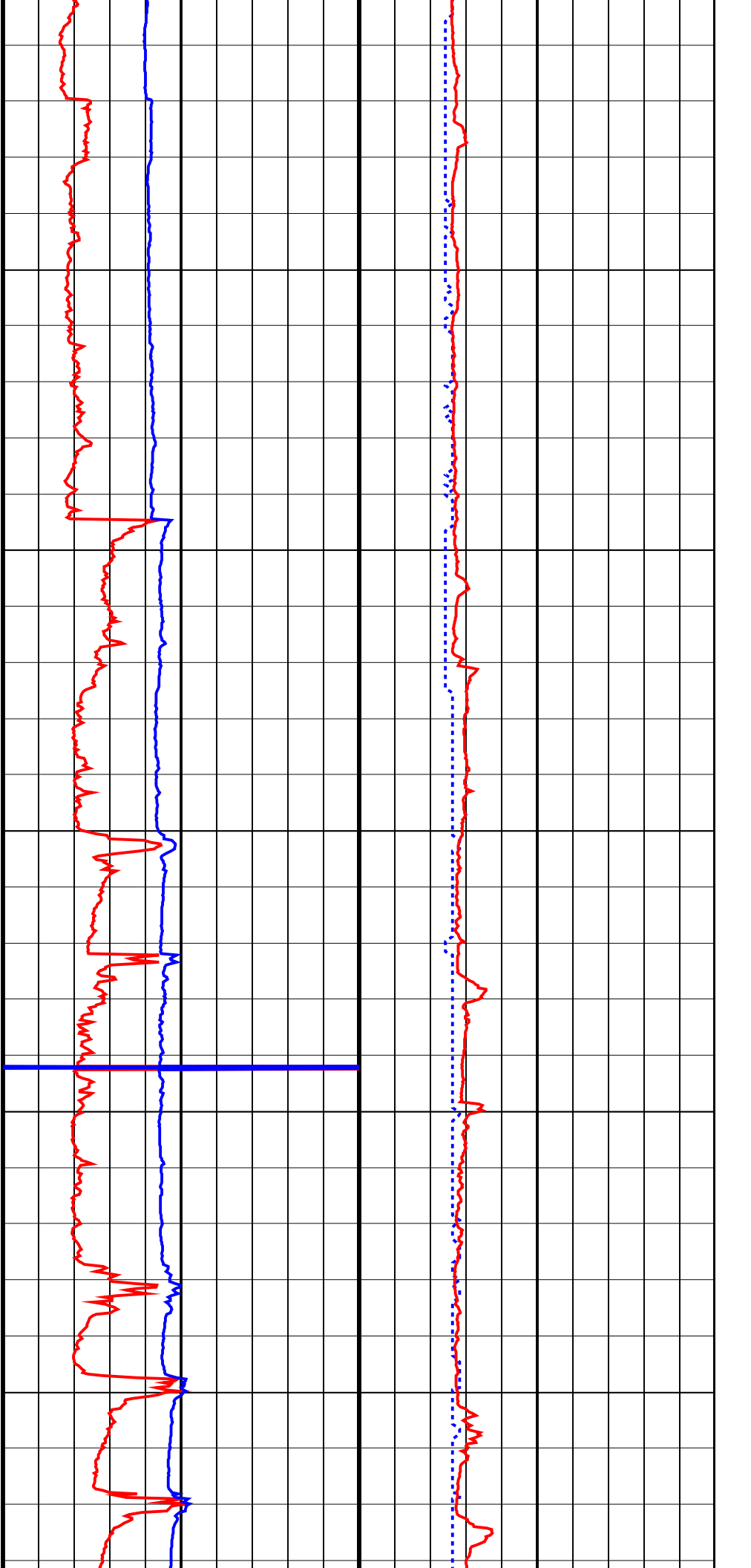
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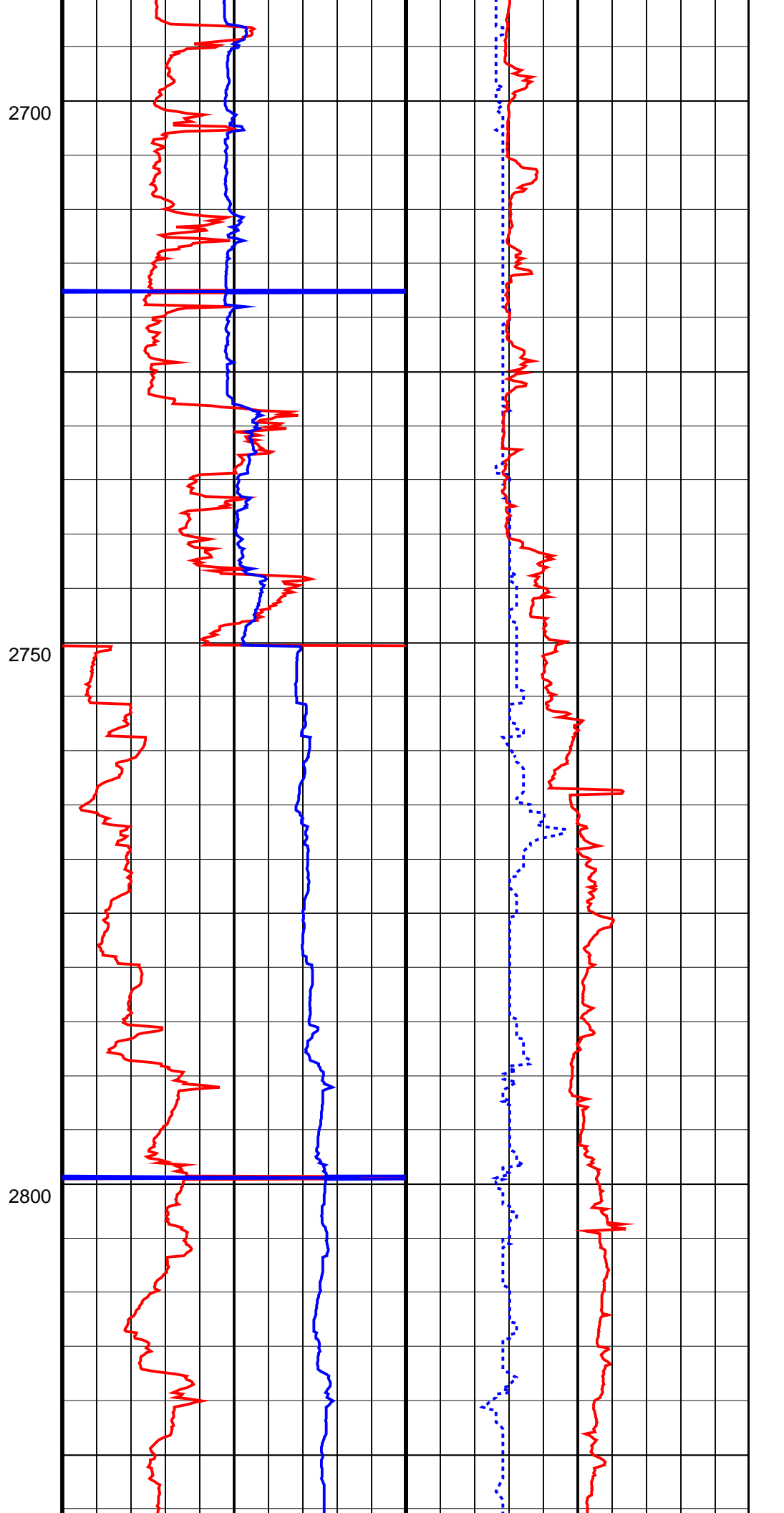
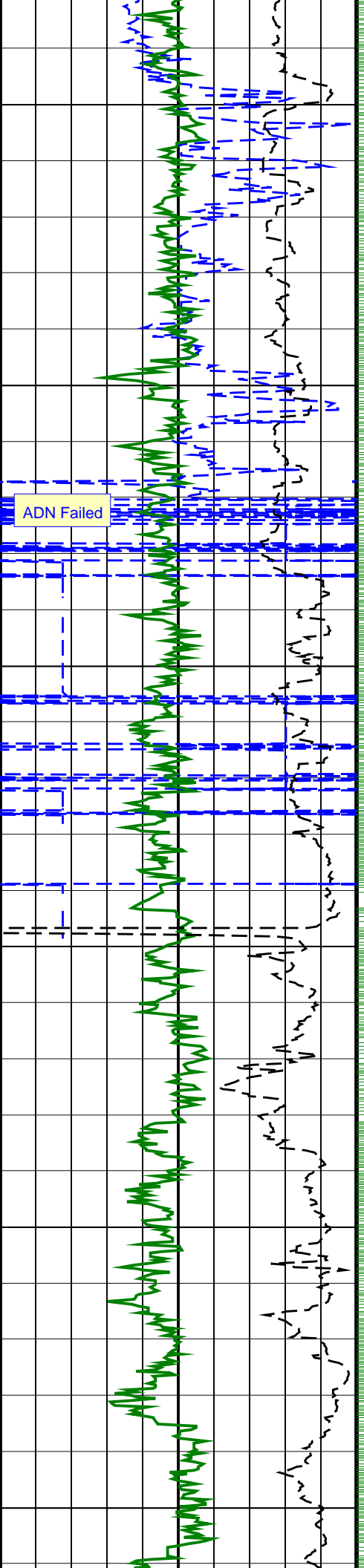


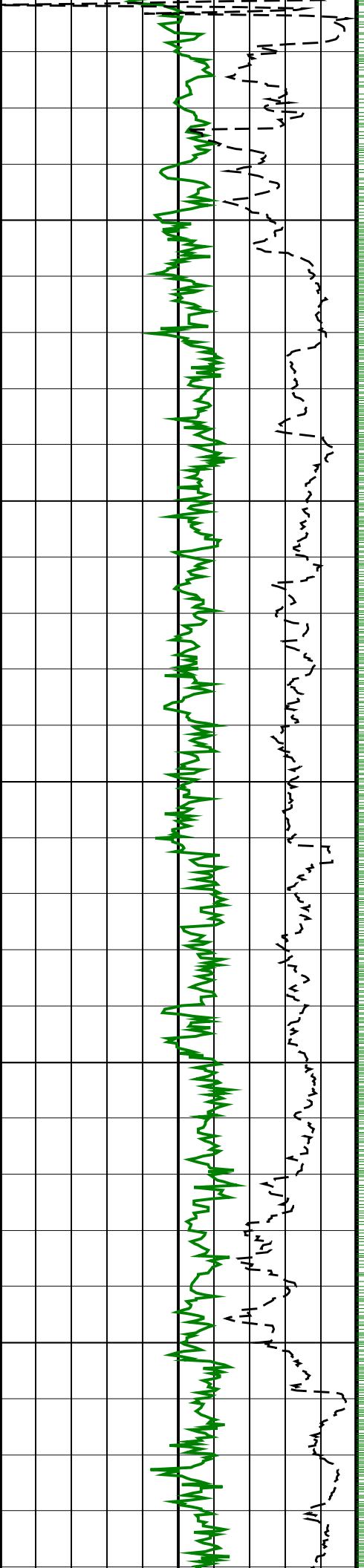




2550
2600
2650



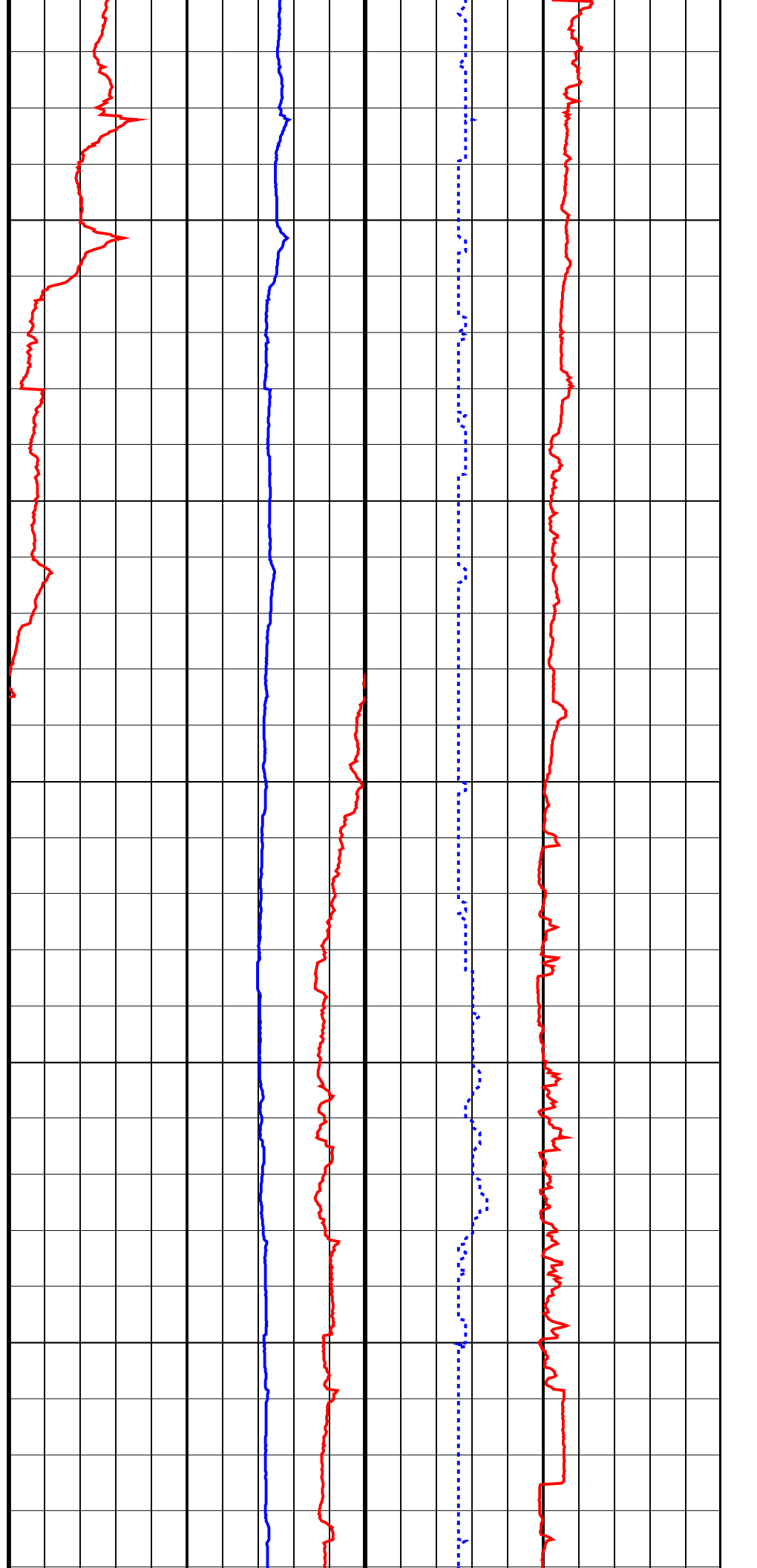


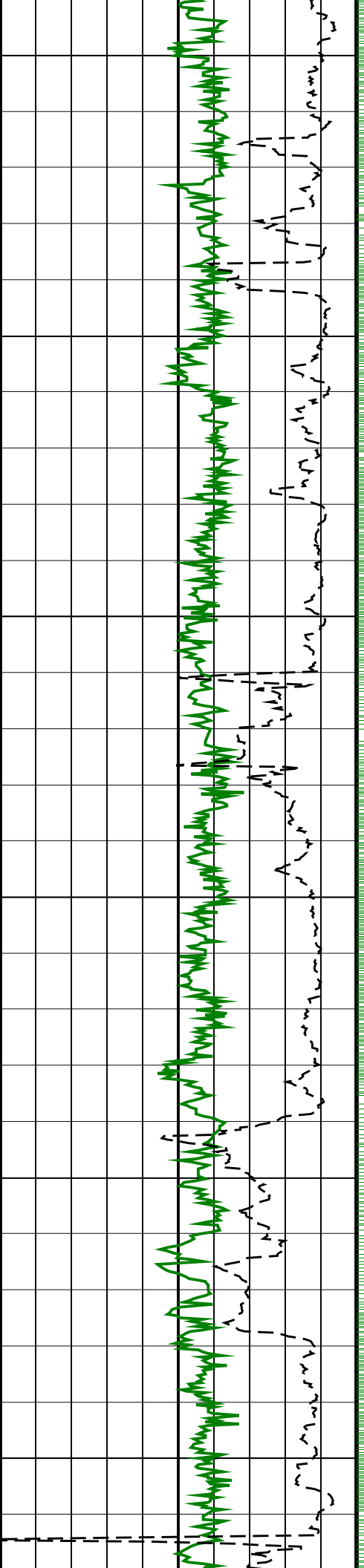


2850

2900

2950

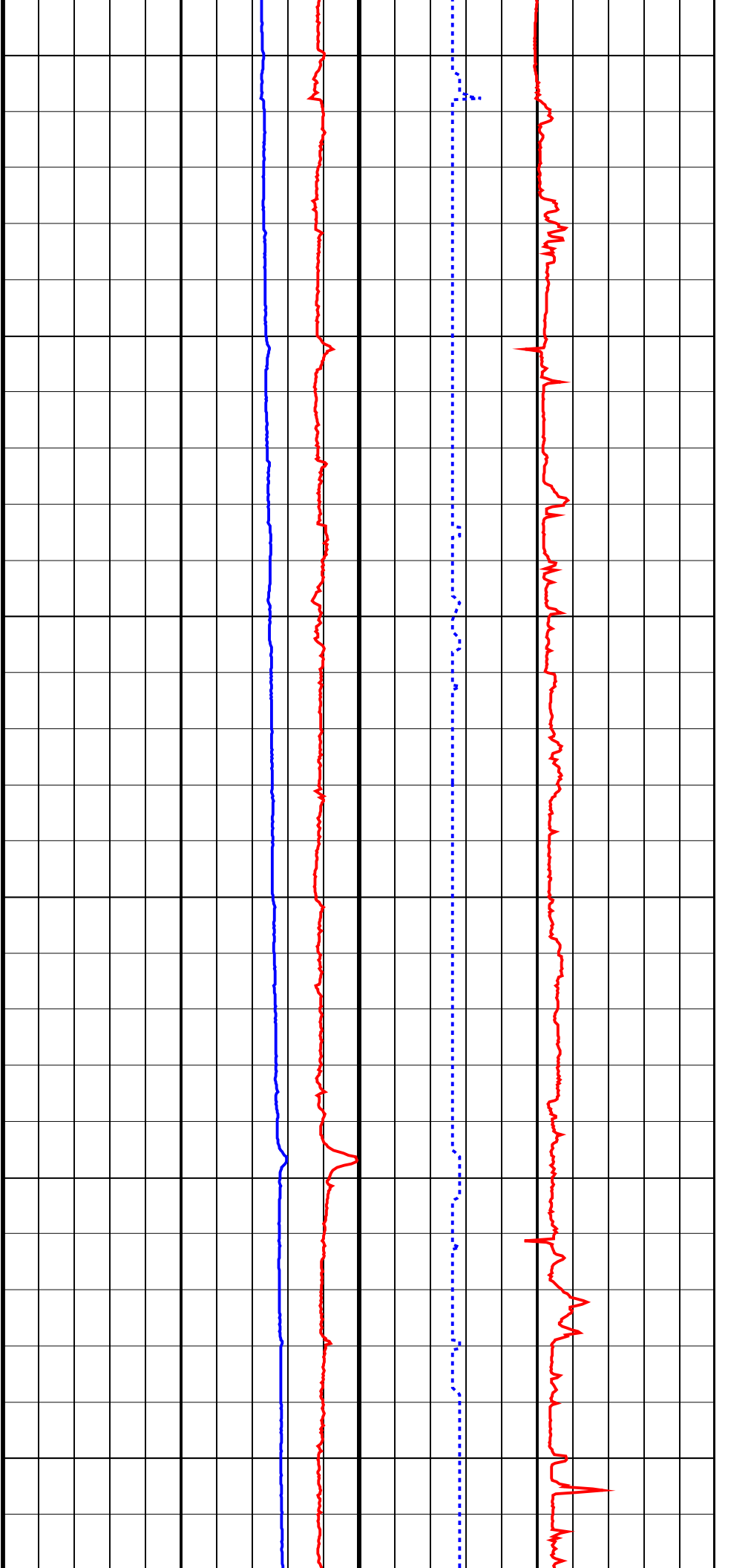


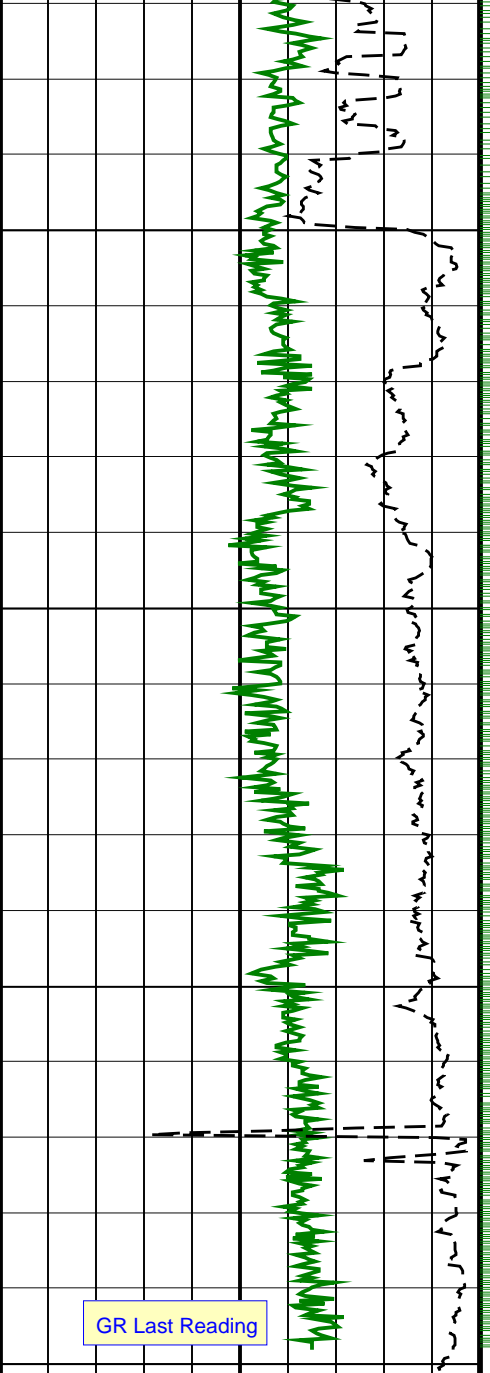


3000

3050

3100





ROP*5 (ROP5)	
100	0
(M/HR)	
Average Borehole Diameter, Real-Time (ADIA_ADN_RT)	
7	12
(IN)	
RAB Gamma Ray, Real-Time (GR_RAB_RT)	
0	150
(GAPI)	

MWD Annulus Pressure (APRS_MWD)		MWD Annular Temperature (ATMP_MWD)	
2000	6000	0	50
(PSI)		(DEGC)	
MWD Equivalent Circulating density (ECD_MWD)		Standpipe Pressure (SPPA)	
8	10	1000	4000
(LB/G)		(PSI)	

Total Depth @MD 3202m

PIP SUMMARY

GRRR_R PIP

SCHLUMBERGER

Survey report

8-Oct-2007 00:56:55

Page 1 of 2

Client.....: Japan Agency for Marine-Eartgu Science and Technology
 Field.....: Nankai-Kumano

Well.....: C0001D
 API number.....: 07JAP0002
 Engineer.....: Mario Jakulj / Chen Xi

Spud date.....: 02-Oct-07
 Last survey date.....: 08-Oct-07
 Total accepted surveys....: 23

Rig:..... Chikyuu
 Country:..... Japan

MD of first survey..... 2226.00 m
 MD of last survey..... 3202.00 m

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

----- Geomagnetic data -----
 Magnetic model.....: BGGM version 2007
 Magnetic date.....: 01-Oct-2007
 Magnetic field strength...: 915.64 HCNT
 Magnetic dec (+E/W-).....: -6.47 degrees
 Magnetic dip.....: 46.55 degrees

----- Depth reference -----
 Permanent datum.....: Mean Sea Level
 Depth reference.....: Driller's Depth
 GL above permanent.....: -2197.50 m
 KB above permanent.....: 28.50 m
 DF above permanent.....: 28.50 m

----- MWD survey Reference Criteria -----
 Reference G.....: 999.59 mGal
 Reference H.....: 915.64 HCNT
 Reference Dip.....: 46.55 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-).....: 0.00 m
 Departure (+E/W-).....: 0.00 m

----- Corrections -----
 Magnetic dec (+E/W-).....: -6.47 degrees
 Grid convergence (+E/W-)..: 0.00 degrees
 Total az corr (+E/W-)....: -6.47 degrees
 (Total az corr = magnetic dec - grid conv)

----- Platform reference point-----
 Latitude (+N/S-).....: 0.00 m
 Departure (+E/W-).....: 0.00 m

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

Azimuth from Vsect Origin to target: 0.00 degrees

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 SCHLUMBERGER Survey Report

8-Oct-2007 00:56:55

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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	2226.00	0.00	0.00	0.00	2226.00	0.00	0.00	0.00	0.00	0.00	0.00	TIP	None
2	2244.17	0.55	137.90	18.17	2244.17	-0.06	-0.06	0.06	0.09	137.90	0.30	MWD	None
3	2320.41	1.10	92.52	76.24	2320.40	-0.37	-0.37	1.03	1.10	109.59	0.11	MWD	None
4	2359.08	1.02	76.33	38.67	2359.07	-0.30	-0.30	1.74	1.77	99.89	0.08	MWD	None
5	2435.59	0.93	79.77	76.51	2435.56	-0.03	-0.03	3.01	3.01	90.61	0.01	MWD	None
6	2474.71	0.77	80.82	39.12	2474.68	0.07	0.07	3.58	3.59	88.94	0.04	MWD	None
7	2512.92	0.81	76.21	38.21	2512.89	0.17	0.17	4.10	4.10	87.61	0.02	MWD	None
8	2550.54	0.71	86.87	37.62	2550.50	0.25	0.25	4.59	4.60	86.91	0.05	MWD	None
9	2589.40	0.73	86.74	38.86	2589.36	0.27	0.27	5.08	5.09	86.90	0.01	MWD	None
10	2628.16	0.71	93.11	38.76	2628.12	0.28	0.28	5.57	5.57	87.16	0.02	MWD	None
11	2666.46	0.70	81.39	38.30	2666.41	0.30	0.30	6.03	6.04	87.17	0.04	MWD	None
12	2742.40	0.39	276.13	75.94	2742.35	0.40	0.40	6.24	6.25	86.37	0.14	MWD	None
13	2780.03	2.59	164.25	37.63	2779.97	-0.41	-0.41	6.34	6.35	93.70	0.73	MWD	None
14	2818.14	1.76	184.41	38.11	2818.05	-1.82	-1.82	6.53	6.78	105.60	0.29	MWD	None
15	2857.04	3.49	201.98	38.90	2856.91	-3.52	-3.52	6.04	6.99	120.21	0.49	MWD	None
16	2895.39	3.27	196.33	38.35	2895.19	-5.65	-5.65	5.29	7.74	136.85	0.10	MWD	None
17	2933.50	3.28	191.55	38.11	2933.24	-7.76	-7.76	4.77	9.11	148.42	0.07	MWD	None
18	2969.21	3.33	184.75	35.71	2968.89	-9.79	-9.79	4.48	10.77	155.42	0.11	MWD	None
19	3047.34	2.72	194.54	78.13	3046.91	-13.85	-13.85	3.83	14.37	164.56	0.10	MWD	None
20	3085.70	3.10	189.97	38.36	3085.23	-15.75	-15.75	3.42	16.12	167.76	0.12	MWD	None
21	3125.02	3.20	203.24	39.32	3124.49	-17.81	-17.81	2.80	18.03	171.06	0.19	MWD	None
22	3162.66	3.13	201.91	37.64	3162.07	-19.73	-19.73	2.00	19.83	174.20	0.03	MWD	None
23	3202.00	3.13	201.91	39.34	3201.35	-21.72	-21.72	1.20	21.75	176.83	0.00	Bit	Proj

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Company:
 Japan Agency for Marine–Earth Science and Technology


Well: C0001D

Field: Nankai–Kumano

Rig: Chikyuu

Country: Japan

8 1/2 in. LWD Hole
Drilling Parameters Log
Real Time Log 1:500 Measured Depth



Data Quality

Type of Measurement

Res	GR	Den	Neu	DTCO
-----	----	-----	-----	------

When data does not meet standards, put a number in with a corresponding number and remark below. Use Positive remarks are welcome; do not append them w

Geomarket	CHG	Location	Philippines Sea
Job Date	02-Oct-07	Customer	JAMSTEC
Rig	Chikyuu	Field/Well	Nankai-Kumano/CO001D
Engineer	Mario/Chen Xi/K.C. Yang	Job Number	07JAP0002

Operation

Presentation

Description of Well – Names, Geometry, Services, Location and References; General Content
Header, user of trademarks, directional data, well plot, order of components, spelling and style, units sensor to toolface angle recorded

Equipment and Software Description
Tool sketch, equipment numbers, software versions, data rates, filtering weights

Processing Traceability and Environment Description
Acquisition environment, parameters and key constants for each run or zone, complete and relevant remarks

Annotations, Presented Formats, QC Curves, Print Quality
Documented splice points; data gap explanations, mud changes, movement indicator, color selection

Calibration and Verifications

Calibration / Before survey verification / After survey verification

Validity, completeness (includes equipment number), timeliness, unedited, discrepancy explained

Operating Procedures

Depth Control
Comparison with driller's depth, other logs, other bit runs, between RT and RM, Depth summary listing

Logging speed and sampling rates

As recommended in reference manual or job planner. No loss of data or spatial resolution

Data Comparison

Between runs and passes, with data from nearby wells, other conveyance, mud log and markers

Operating Anomalies/Failure/Missing Data/Sensor Orientation/Transmission Losses

Absence of noise and spurious variations, anomaly/repeated, corrected, reported or explained.

Digital Delivery

Digital Products

Labeled, verification listing with complete digital record, backup for archival; record matches hard copy.

Job Quality Rating (JQR)

Number of boxes without number X 10

Environmental effects

Irregular Operation

Excessive ROP or speed, high deviation, shocks, vibrations, sticking conditions

Borehole Geometry

Shape (caves, etc), rugosity, spiralled hole, mud induced fractures. Casing, tubing conditions

Borehole Fluid

Barite, KCl, salinity, additives, gas cut, unstable

Interferences

External noise, nearby casing or drillpipe, debris, unusual formation composition

Operation Outside Tool Specifications

Geomarket/Temperature, pressure, hole size, hole deviation, dog-leg severity, flow rate, rpm, solids Value of Parameter

Environmental Quality Rating (EQR)

Number of boxes without number X 20

Remarks

Cell Manager: Mario Jakuli FSM

y Report

the column corresponding to the measurement
additional pages for remarks
with a number.

Revised January 2002

Schlumberger Drilling & Measurements

DQR Header Utility ver 1.1c

ND Maduenzia