Schlumberger Verification Listing

Listing Created: 28−JUL−2009 15:59:21
Version: IDEAL ID13_0C_02

Input Source: D:\Users\IDEAL\Work\NT2_11B_36in_26in_12_25in_arcVISIONAPWD_RM_2082m_3592m.DLIS
Format: DLIS
Storage Set ID: Default Storage Set
Max Record Length: 8192
Storage Unit Sequence: 1

File Header File: **MERGE_127** Sequence: **127**

Defining Origin: 41

File ID: MERGE_127 File Type: MERGE
Producer Name: Schlumberger | Product/Version: OP ID13_0C_02 | File Set: 0 | File Number: 1 | 27−JUL−2009 12:50:59

Company Name: JAMSTEC
Well Name: NT2−11B
Field Name: Nankai−Kumano

Origin: 2083

File ID: Run_1 File Type: SAVE
Producer Name: Schlumberger | Product/Version: DlisBrowser ID13_0C_02 | File Set: 41 | File Number: 8 | 27−JUL−2009 15:32:00

Tool String: ARC5−825

Origin: 6334

File ID: SPLICE_126 File Type: SPLICE
Producer Name: Schlumberger | Product/Version: OP ID13_0C_02 | File Set: 0 | File Number: 1 | 27−JUL−2009 12:47:44

Origin: 35

File ID: Run_2 File Type: SAVE
Producer Name: Schlumberger | Product/Version: DlisBrowser ID13_0C_02 | File Set: 41 | File Number: 7 | 27−JUL−2009 15:02:00

Tool String: CDR−825, MWD_10−B

Origin: 10116

File ID: Run_3 File Type: SAVE
Producer Name: Schlumberger | Product/Version: DlisBrowser ID13_0C_02 | File Set: 41 | File Number: 5 | 27−JUL−2009 21:42:00

Error Summary File: **MERGE_127** Sequence: **127**

No errors detected in file.

Well Site Data File: **MERGE_127** Sequence: **127**

Origin: 2083

Well Data

Company Name	JAMSTEC			CN
	All sections			CN1
Well Name	NT2−11B			WN
Field Name	Nankai−Kumano			FN
Rig:	Chikyu			CLAB, COUN
Country:	JAPAN			SLAB, STAT
Field Location	X=E 642732.311			FL
	Y=N 3703100.938			FL2
X=E 642732.311	Y=N 3703100.938			LLAB, SECT
API Serial Number	09JAP0002			APIN
Service Order Number	09JAP0002			SON
Longitude	136° 32.1489' E			LONG
Latitude	33° 27.4704' N			LATI
Maximum Hole Deviation	0.700 (deg)			MHD
Elevation of Kelly Bushing	0.0 (m)			EKB
Elevation of Ground Level	−2053.7 (m)			EGL
Elevation of Derrick Floor	28.3 (m)			EDF
Permanent Datum	Mean Sea Level	Elevation of Permanent Datum 0.0 (m)		PDAT, EPD
Log Measured From	Drill Floor	Above Permanent Datum 28.3 (m)		LMF, APD
Drilling Measured From	2082.3			DMF

Absent Valued Parameters: CONT, FL1, TOWN, RANG

Job Data

Date as Month−Day−Year	02−Jul_09			DATE
Run Number	3			RUN
Total Depth − Driller	3592.0 (m)			TDD
Total Depth − Logger	3592.0 (m)			TDL
Bottom Log Interval	3577.8 (m)			BLI
Top Log Interval	2082.3 (m)			TLI
Current Casing Size	0.0 (in)			CSIZ
Casing Depth From	2136.5 (m)			CDF
Casing Weight	0.0 (lbm/min)			CWEI
Bit Size	36.0 (in)			BS
Begin Log Date	19−May−09	Begin Log Time	19−May−09	DLAB, TLAB
Logging Unit Number	OLU−KC−0504	Logging Unit Location	On board Chikyu	LUN, LUL
Engineer's Name	William B./Yoshio I.			ENGI
Witness's Name	Yu Ito			WITN
Service Order Number	09JAP0002			SON

Absent Valued Parameters: CADT, CASG, BSDF, BSDT

Mud Data

Drilling Fluid Type	Seawater, WBM			DFT
Drilling Fluid Density	1.10 (g/cm3)			DFD
Drilling Fluid PH	10.0			DFPH
End Log Date	02−Jul_09			DCS
Begin Log Date	19−May−09	Begin Log Time	19−May−09	DLAB, TLAB

Absent Valued Parameters: DFV, DFL, BSAL, MSS, RMS, MST, RMFS, MFST, RMCS, MCST, RMB, RMFB, MRT, MRT1, MRT2, MRT3, TCS

PVT Data

Absent Valued Parameters: BSAL

Other Services

See Remarks	OS1

Origin: 35 (Data differences compared to Origin 2083)

Well Data

Country: JAPAN	Japan	SLAB, STAT
Field Location	Philippine Sea	FL
SECTION	12.25	LLAB, SECT
Longitude	136.535815 E	LONG
Latitude	33.45795	LATI
Elevation of Kelly Bushing	28.3 (m)	EKB
Elevation of Ground Level	−2061.0 (m)	EGL
Log Measured From	2082.3	LMF

Absent Valued Parameters: CN1, FL2, APIN

Job Data

Run Number	2	RUN

Absent Valued Parameters: DATE

Mud Data

End Log Date	02−Jul−09	DCS

Parameters File: **MERGE_127** Sequence: **127**

Origin: 2083

ARC5−825: 8.25−in. Array Resistivity Compensated

Mnemonic	Long Name	Value (Units)
A12A	ARC Air Cal Attenuation From T1 at 2 MHz	
A14A	ARC Air Cal Attenuation From T1 at 400 KHz	
A22A	ARC Air Cal Attenuation From T2 at 2 MHz	
A24A	ARC Air Cal Attenuation From T2 at 400 KHz	
A32A	ARC Air Cal Attenuation From T3 at 2 MHz	
A34A	ARC Air Cal Attenuation From T3 at 400 KHz	
A42A	ARC Air Cal Attenuation From T4 at 2 MHz	
A44A	ARC Air Cal Attenuation From T4 at 400 KHz	
A52A	ARC Air Cal Attenuation From T5 at 2 MHz	
A54A	ARC Air Cal Attenuation From T5 at 400 KHz	
ABNT	Abnormal Transmitter Indicator	NO_TX_FAILED
ADHS	ARC Down Hole Software Version	Undefined
AM2A	ARC Air Cal Amplitude Offset at 2 MHz	
ANISO_COMPUTE	Anisotropy Computation Option	YES
APICG	ARC Gamma Ray API and Gain Combined Factor	2.40

APIG	ARC Gamma Ray API Gain Factor	2.41
ATMP_ARC	ARC Select Temperature Channel	ANNULUS_TEMP
ATRN	ARC Tool Run Number	Undefined
ATSN	ARC Tool Serial Number	Undefined
AZMF	Formation DIP Azimuth	0.0 (deg)
BHT_RM	Bottom Hole Temperature (RM)	10.0 (degC)
BH_COMPUTE	Borehole Inversion Computation Option	YES
BSAL_RM	Mud Salinity (RM)	0.0 (ppk)
BS_RM	Bit Size (RM)	36.0 (in)
CALG	ARC Gamma Ray Cal Gain Factor	−1.00
CALI_SLCT_ARC	ARC Caliper Selection	BITSIZE
CDPTH_ARC	Process Start Depth	30.5 (m)
COEF_M	User Defined FEXP in Clean Sand	1.65
C_WS	Overpressure correction to Sw and M	1.00
DIELEC_COMPUTE	Dielectric Computation Option	YES
DIPF	Formation DIP Angle	0.0 (deg)
ERRCT	Percentage Error Cutoff	4.50
FEXP	Formation Factor Exponent(RM)	2.00
FNUM	Formation Factor Enumerator(RM)	1.00
FPHI_RM	Formation Factor Porosity Source (RM)	XPLOT
GRSH	GR Shale (Invasion Computation Cutoff)	1000.0 (gAPI)
HIGH_BLEND	High Resistivity Threshold for Blending	2.00 (ohm.m)
INCLIN_B0	ARC Bias Constant (mg)	0.0
INCLIN_B1	ARC Bias First−order Coefficient (mg/degC)	0.0
INCLIN_B2	ARC Bias Secod−order Coeeficient (mg/degC)	0.0
INCLIN_B3	ARC Bias Third−order Coeeficient (mg/degC)	0.0
INCLIN_C0	ARC Current Scale Factor Constant (mA/g)	1.00
INCLIN_C1	ARC Scale First−order Coeeficient (mA/g/degC)	0.0
INCLIN_C2	ARC Scale Second−order Coeeficient (mA/g/degC)	0.0
INCLIN_C3	ARC Scale Third−order Coeeficient (mA/g/degC)	0.0
INVAS_COMPUTE	Invasion Computation Option	YES
JSD_ARC	ARC Acquisition start date	18−MAY−2009
KPER	Potassium Concentration (RM)	0.0
LOW_BLEND	Low Resistivity Threshold for Blending	1.00 (ohm.m)
MST_RM	Mud Sample temperature (RM)	28.0 (degC)
MSWS	ARC Wizard Model Switch Window	1.52 (m)
MULTIEFFECT_CO	Multi Effect Option	YES
MW_RM	Mud Weight (RM)	1.04 (g/cm3)
OBMF_RM	Oil Based Mud	NO
P11AC_RM	ARC: Air Calibration For Phase T1 to R1	−999.3 (deg)
P12A	ARC Air Cal Phase−Shift From T1 at 2 MHz	
P14A	ARC Air Cal Phase−Shift From T1 at 400 KHz	
P22A	ARC Air Cal Phase−Shift From T2 at 2 MHz	
P24A	ARC Air Cal Phase−Shift From T2 at 400 KHz	
P32A	ARC Air Cal Phase−Shift From T3 at 2 MHz	
P34A	ARC Air Cal Phase−Shift From T3 at 400 KHz	
P42A	ARC Air Cal Phase−Shift From T4 at 2 MHz	
P44A	ARC Air Cal Phase−Shift From T4 at 400 KHz	
P52A	ARC Air Cal Phase−Shift From T5 at 2 MHz	
P54A	ARC Air Cal Phase−Shift From T5 at 400 KHz	
POFFSET_ARC	ARC: Pressure Offset	0.0 (kPa)
PRTD	Preferred Resistivity Log for Rt Display while Multi−Effects	P34B
PSOF_ADJ_T1	ARC: User Input Phase offset	0.0 (deg)
RESTIK	ARC resistivity tick source	PHASE
RHOF_RM	Mud Filtrate Density (RM)	1.00 (g/cm3)
RHOM_RM	Matrix density (RM)	2.71 (g/cm3)
RMS_RM	Resistivity of Mud Sample (RM)	1.00 (ohm.m)
RSD	LWD run start date dd−mmm−yy	(null)
RWA_COMP_MOD	Rwa computation model	BASIC
RWA_DEN_ADN	Rwa Density Input	RHOB
RWA_DEN_CDN	Rwa Density Input	RHOB
RWA_DEN_INPUT	Rwa Density Input	RHOB
RWA_FORM_MOD	Rwa computation formation model	CLASTIC
RWA_RES_INPUT	Rwa computation resistivity input	RT
RWS_RM	Resistivity of Connate Water (RM)	1.00 (ohm.m)
SHIG	ARC High Shock Risk Level	
SHT_RM	Ground Level Temperature (Mud−Line When Offshore) (RM)	10.0 (degC)
SMED	ARC Medium Shock Risk Level	
SMIN	ARC Minimum Shock Risk Level	
SUPD	ARC Real Time Shock Update Rate	
TCODE_ARC	ARC Tool File Code	ARC6A−AA
TD_RM	Total Measured Depth (RM)	3048.0 (m)
TSIZ_ARC	ARC Tool Size	8.25 (in)
TWS_RM	Temperature of Connate Water (RM)	23.9 (degC)
UNIFORM_COMPU	Uniform Rock Option	YES
VERS_ARC	ARC Down hole software version Number	−1.00

VF_ILLI	Fraction of illite in shales	0.500
VF_KAOL	Fraction of kaolinite in shales	0.500
VF_MONT	Fraction of montmorillonite in shales	0.0
WRK	Way to Report Potassium Concentration (RM)	POTASSIUM_BY_WEIGHT_%
XPDM_RM	Cross plot density prosity multiplier	0.675
XPNM_RM	Cross plot neutron prosity multiplier	0.325

System and Miscellaneous

Mnemonic	Long Name	Value (Units)
BFM1	Bore Hole Deviation From 1	2082
BFM2	Bore Hole Deviation From 2	
BFM3	Bore Hole Deviation From 3	
BFM4	Bore Hole Deviation From 4	
BMN1	Bore Hole Deviation Min 1	0.03
BMN2	Bore Hole Deviation Min 2	
BMN3	Bore Hole Deviation Min 3	
BMN4	Bore Hole Deviation Min 4	
BMX1	Bore Hole Deviation Max 1	0.7
BMX2	Bore Hole Deviation Max 2	
BMX3	Bore Hole Deviation Max 3	
BMX4	Bore Hole Deviation Max 4	
BTO1	Bore Hole Deviation To 1	3592
BTO2	Bore Hole Deviation To 2	
BTO3	Bore Hole Deviation To 3	
BTO4	Bore Hole Deviation To 4	
CSDN0	Casing record 10 density	
CSDN1	Casing record 1 density	436.35
CSDN2	Casing record 2 density	
CSDN3	Casing record 3 density	
CSDN4	Casing record 4 density	
CSDN5	Casing record 5 density	
CSDN6	Casing record 6 density	
CSDN7	Casing record 7 density	
CSDN8	Casing record 8 density	
CSDN9	Casing record 9 density	
CSFD0	Casing record 10 top depth	
CSFD1	Casing record 1 top depth	2082.3
CSFD2	Casing record 2 top depth	
CSFD3	Casing record 3 top depth	
CSFD4	Casing record 4 top depth	
CSFD5	Casing record 5 top depth	
CSFD6	Casing record 6 top depth	
CSFD7	Casing record 7 top depth	
CSFD8	Casing record 8 top depth	
CSFD9	Casing record 9 top depth	
CSOD0	Casing record 10 OD	
CSOD1	Casing record 1 OD	20
CSOD2	Casing record 2 OD	
CSOD3	Casing record 3 OD	
CSOD4	Casing record 4 OD	
CSOD5	Casing record 5 OD	
CSOD6	Casing record 6 OD	
CSOD7	Casing record 7 OD	
CSOD8	Casing record 8 OD	
CSOD9	Casing record 9 OD	
CSTD0	Casing record 10 bottom depth	
CSTD1	Casing record 1 bottom depth	2786.2
CSTD2	Casing record 2 bottom depth	
CSTD3	Casing record 3 bottom depth	
CSTD4	Casing record 4 bottom depth	
CSTD5	Casing record 5 bottom depth	
CSTD6	Casing record 6 bottom depth	
CSTD7	Casing record 7 bottom depth	
CSTD8	Casing record 8 bottom depth	
CSTD9	Casing record 9 bottom depth	
DIPR	magnetic dip	47.0 (deg)
DPRF	Depth Reference	Driller's Depth
DSSN	Depth System Serial #	PDA
HID1	Header Identifier Line 1	APWD
HID2	Header Identifier Line 2	MD 1:500 Recorded Mode Composite Log
HIDE	Header Identifier	arcVISION Service
HLFD0	Bore Hole record 10 top depth	
HLFD1	Bore Hole record 1 top depth	2082.3
HLFD2	Bore Hole record 2 top depth	2142.7
HLFD3	Bore Hole record 3 top depth	2798.0
HLFD4	Bore Hole record 4 top depth	

HLFD5	Bore Hole record 5 top depth	
HLFD6	Bore Hole record 6 top depth	
HLFD7	Bore Hole record 7 top depth	
HLFD8	Bore Hole record 8 top depth	
HLFD9	Bore Hole record 9 top depth	
HLSZ0	Bore Hole record 10 diameter	
HLSZ1	Bore Hole record 1 diameter	36
HLSZ2	Bore Hole record 2 diameter	26
HLSZ3	Bore Hole record 3 diameter	12.25
HLSZ4	Bore Hole record 4 diameter	
HLSZ5	Bore Hole record 5 diameter	
HLSZ6	Bore Hole record 6 diameter	
HLSZ7	Bore Hole record 7 diameter	
HLSZ8	Bore Hole record 8 diameter	
HLSZ9	Bore Hole record 9 diameter	
HLTD0	Bore Hole record 10 bottom depth	
HLTD1	Bore Hole record 1 bottom depth	2142.7
HLTD2	Bore Hole record 2 bottom depth	2794.0
HLTD3	Bore Hole record 3 bottom depth	3592.0
HLTD4	Bore Hole record 4 bottom depth	
HLTD5	Bore Hole record 5 bottom depth	
HLTD6	Bore Hole record 6 bottom depth	
HLTD7	Bore Hole record 7 bottom depth	
HLTD8	Bore Hole record 8 bottom depth	
HLTD9	Bore Hole record 9 bottom depth	
IDVN	Ideal WIS Version	ID14_0C_12
LOC1	Location−1 Text	Philippine Sea
LWVN	LWD Tool Version	ARC V9.3B, CDR V6.0_B08
MDCP	magnetic declination	−6.59 (deg)
MF1	Mud Type 1 From	2082.3
MF2	Mud Type 2 From	2798.0
MF3	Mud Type 3 From	
MF4	Mud Type 4 From	
MT1	Mud Type 1	Sea Water
MT2	Mud Type 2	WBM
MT3	Mud Type 3	
MT4	Mud Type 4	
MTO1	**Mud Type 1 To**	**2794.0**
MTO2	**Mud Type 2 To**	**3592.0**
MTO3	Mud Type 3 To	
MTO4	Mud Type 4 To	
MWVN	MWD Tool version	PUP V9.0C02
PVER	Program Version	13X0−101
RR1	Remark Line 1	
RR10	Remark Line 10	
RR11	Remark Line 11	
RR12	Remark Line 12	
RR13	Remark Line 13	
RR14	Remark Line 14	
RR15	Remark Line 15	
RR16	Remark Line 16	
RR17	Remark Line 17	
RR18	Remark Line 18	
RR19	Remark Line 19	
RR2	Remark Line 2	
RR20	Remark Line 20	
RR21	Remark Line 21	
RR22	Remark Line 22	
RR23	Remark Line 23	
RR24	Remark Line 24	
RR25	Remark Line 25	
RR3	Remark Line 3	
RR4	Remark Line 4	
RR5	Remark Line 5	
RR6	Remark Line 6	
RR7	Remark Line 7	
RR8	Remark Line 8	
RR9	Remark Line 9	
SDAT	Spud Date	19−May−2009
SPVN	SPM Version	14_0C_02
STRN	Starting Run #	1

Origin: 35 (Data differences compared to Origin 2083)

CDR−825: 8.25−in. Compensated Dual Resistivity

Mnemonic	Long Name	Value (Units)
BHT_RM	Bottom Hole Temperature (RM)	10.0 (degC)

BSAL_RM	Mud Salinity (RM)	0.0 (ppk)
BS_RM	Bit Size (RM)	36.0 (in)
COEF_M	User Defined FEXP in Clean Sand	1.65
COLS	Gamma Ray Collar thickness	CDR_6_50
C_WS	Overpressure correction to Sw and M	1.00
DIP_ANGLE	CDR: Dip Angle	−999.3 (deg)
DIP_AZIMUTH	CDR: Dip Azimuth	−999.3 (deg)
DIRES_RM	CDR: Compute Dielectric Resistivity ?	NO
EHED	Elevation Hydraulic Head	2082.0 (m)
FEXP	Formation Factor Exponent(RM)	2.00
FLBS	Fraction of Levels Less Than Bit Size	0.0
FNUM	Formation Factor Enumerator(RM)	1.00
FPHI_RM	Formation Factor Porosity Source (RM)	XPLOT
FRACP	Fracture Pressure	1.44 (g/cm3)
GTIK_SEL	CDR Generate Tick Channels	YES
JSD_CDR	CDR Acquisition start date	23−MAY−2009 20:33:46.0
MST_RM	Mud Sample temperature (RM)	28.0 (degC)
MW_RM	Mud Weight (RM)	1.04 (g/cm3)
NGT_RM	CDR: Compute NGT ?	NO
OBMF_RM	Oil Based Mud	NO
PLATEAU	CDR: Plateau GR sensor	YES
POCS_RM	CDR: Phase Offset Calculation	NO
POMW_RM	CDR: Phase Offset at Start Depth	NO_WRAP
PPRES	Pore Pressure	0.959 (g/cm3)
PSAC_RM	CDR: Air Calibration For Phase Average	−999.3
PSOF_RM	CDR: User Input Phase offset	−999.3 (deg)
PUDT_RM	CDR: Phase Unwrapping Lower Threshold	−180.0
PUUT_RM	CDR: Phase Unwrapping Upper Threshold	180.0
QRO_RM	Compute Qualitative Resistivity Overlay (QRO) for CDR?	NO
RHOF_RM	Mud Filtrate Density (RM)	1.00 (g/cm3)
RHOM_RM	Matrix density (RM)	2.71 (g/cm3)
RHO_SEAWATER	Density of Seawater	1.02 (g/cm3)
RMS_RM	Resistivity of Mud Sample (RM)	1.00 (ohm.m)
RSD	LWD run start date dd−mmm−yy	(null)
RWA_COMP_MOD	Rwa computation model	BASIC
RWA_DEN_ADN	Rwa Density Input	RHOB
RWA_DEN_CDN	Rwa Density Input	RHOB
RWA_DEN_INPUT	Rwa Density Input	RHOB
RWA_FORM_MOD	Rwa computation formation model	CLASTIC
RWA_RES_INPUT	Rwa computation resistivity input	RT
RWS_RM	Resistivity of Connate Water (RM)	1.00 (ohm.m)
SEABDEPTH	Water Depth	2082.0 (m)
SF_FLAG	Return to Sea Floor?	YES
SHT_RM	Ground Level Temperature (Mud−Line When Offshore) (RM)	10.0 (degC)
START_MD	Starting measured depth	0.0 (m)
STOP_MD	Stopping measured depth	30479.7 (m)
TD_RM	Total Measured Depth (RM)	3048.0 (m)
TMUS_RM	CDR: Select Temperature Channel	TOOL_TEMP
TSIZ_CDR	CDR Tool Diameter	8.25 (in)
TWS_RM	Temperature of Connate Water (RM)	23.9 (degC)
VERS_CDR	CDR Downhole Software Version	4.10
VF_ILLI	Fraction of illite in shales	0.500
VF_KAOL	Fraction of kaolinite in shales	0.500
VF_MONT	Fraction of montmorillonite in shales	0.0
XPDM_RM	Cross plot density prosity multiplier	0.675
XPNM_RM	Cross plot neutron prosity multiplier	0.325

MWD_10−B: Powerpulse MWD

Mnemonic	Long Name	Value (Units)
BHT_RM	Bottom Hole Temperature (RM)	10.0 (degC)
BSAL_RM	Mud Salinity (RM)	0.0 (ppk)
BS_RM	Bit Size (RM)	36.0 (in)
COEF_M	User Defined FEXP in Clean Sand	1.65
C_WS	Overpressure correction to Sw and M	1.00
FEXP	Formation Factor Exponent(RM)	2.00
FNUM	Formation Factor Enumerator(RM)	1.00
FPHI_RM	Formation Factor Porosity Source (RM)	XPLOT
GAOFF	GA OFFSET =	0.0
GASCL	GA SCALE =	1.00
JSD_PUP	PowerPulse Acquisition start date	01−JAN−2000
MST_RM	Mud Sample temperature (RM)	28.0 (degC)
MW_RM	Mud Weight (RM)	1.04 (g/cm3)
OBMF_RM	Oil Based Mud	NO
PUP_TECHLOG	PUP: Generate Techlog ?	YES
PUP_TICKS	PUP: Generate Ticks ?	YES
RHOF_RM	Mud Filtrate Density (RM)	1.00 (g/cm3)

RHOM_RM	Matrix density (RM)	2.71 (g/cm3)
RMS_RM	Resistivity of Mud Sample (RM)	1.00 (ohm.m)
RSD	LWD run start date dd−mmm−yy	(null)
RWA_COMP_MOD	Rwa computation model	BASIC
RWA_DEN_ADN	Rwa Density Input	RHOB
RWA_DEN_CDN	Rwa Density Input	RHOB
RWA_DEN_INPUT	Rwa Density Input	RHOB
RWA_FORM_MOD	Rwa computation formation model	CLASTIC
RWA_RES_INPUT	Rwa computation resistivity input	RT
RWS_RM	Resistivity of Connate Water (RM)	1.00 (ohm.m)
SHT_RM	Ground Level Temperature (Mud−Line When Offshore) (RM)	10.0 (degC)
TD_RM	Total Measured Depth (RM)	3048.0 (m)
TWS_RM	Temperature of Connate Water (RM)	23.9 (degC)
VF_ILLI	Fraction of illite in shales	0.500
VF_KAOL	Fraction of kaolinite in shales	0.500
VF_MONT	Fraction of montmorillonite in shales	0.0
XPDM_RM	Cross plot density prosity multiplier	0.675
XPNM_RM	Cross plot neutron prosity multiplier	0.325

System and Miscellaneous

Mnemonic	Long Name	Value (Units)
BFM1	Bore Hole Deviation From 1	
BMN1	Bore Hole Deviation Min 1	
BMX1	Bore Hole Deviation Max 1	
BTO1	Bore Hole Deviation To 1	
CLAB	County/Rig Label	Rig: Chikyu
CSDN1	Casing record 1 density	
CSFD1	Casing record 1 top depth	
CSOD1	Casing record 1 OD	
CSTD1	Casing record 1 bottom depth	
DIPR	magnetic dip	46.9 (deg)
DSSN	Depth System Serial #	
HID1	Header Identifier Line 1	
HID2	Header Identifier Line 2	
HIDE	Header Identifier	
HLFD1	Bore Hole record 1 top depth	
HLFD2	Bore Hole record 2 top depth	
HLFD3	Bore Hole record 3 top depth	
HLSZ1	Bore Hole record 1 diameter	
HLSZ2	Bore Hole record 2 diameter	
HLSZ3	Bore Hole record 3 diameter	
HLTD1	Bore Hole record 1 bottom depth	
HLTD2	Bore Hole record 2 bottom depth	
HLTD3	Bore Hole record 3 bottom depth	
IDVN	Ideal WIS Version	
LOC1	Location−1 Text	
LWVN	LWD Tool Version	
MF1	Mud Type 1 From	
MF2	Mud Type 2 From	
MT1	Mud Type 1	
MT2	Mud Type 2	
MTO1	Mud Type 1 To	
MTO2	Mud Type 2 To	
MWVN	MWD Tool version	
SDAT	Spud Date	16−May−2009
SPVN	SPM Version	
STRN	Starting Run #	

Channels

File: **MERGE_127** Sequence: **127**

Origin: 2083

ARC5−825: 8.25−in. Array Resistivity Compensated

Spacing: 6.00 in **Number of Channels:** 11

Mnemonic	Long Name	Units	Properties
AGTM	ARC Gamma Ray Time After Bit	s	BASIC
APRS_ARC	ARC Annular Pressure	kPa	BASIC
GR_ARC	ARC Gamma Ray	gAPI	BASIC
GR_ARC_CAL	ARC Calibrated Gamma Ray	gAPI	CUSTOMER
GR_ARC_FILT	ARC Calibrated, Filtered Gamma Ray	gAPI	CUSTOMER
GR_ARC_RAW	ARC Raw Gamma Ray	1/s	CUSTOMER

GR_ARC_RAW	ARC Raw Gamma Ray	1/s	CUSTOMER
PFPG_ARC	Fracture Pressure Gradient	g/cm3	BASIC
PPPG_ARC	Pore Pressure Gradient	g/cm3	BASIC
ROP5_RM	Rate of Penetration, Averaged over Last 5ft	m/h	BASIC
TEMP	Temperature	degC	CUSTOMER
TVDE	True Vertical Depth	m	BASIC

Spacing: 1.20 in **Number of Channels:** 1

Mnemonic	Long Name	Units	Properties
TICK_ARC_GR	ARC Gamma Ray Samples		CUSTOMER

System and Miscellaneous

Spacing: 6.00 in **Number of Channels:** 27

Mnemonic	Long Name	Units	Properties
6TIM	6−in. Frame Time	ms	CUSTOMER
APRS_RT	ARC Annulus Pressure, Real−Time	kPa	BASIC
ARC_GR_RT	ARC Gamma Ray, Real−Time	gAPI	BASIC
ARC_GR_UNC_RT	ARC Raw Gamma Ray, Real−Time	gAPI	BASIC
ATMP_RT	ARC Annulus Temperature, Real−Time	degC	BASIC
AZIM_CONT_RT	MWD Cont Az 6inch	deg	CUSTOMER
BDTI	Job OnBottom (drilling) time 6in	h	BASIC
CHK	SPN Sp_cHkld 6in	kN	BASIC
CTH	SPN Sp_cTHlkd 6in	kN	BASIC
CWOB	SPN Sp_SWOB 6in	kN	BASIC
ECD_ARC_RT	ARC ECD 6in	g/cm3	BASIC
FPG_ARC	Fracture pressure 6in	g/cm3	CUSTOMER
HDTH	SRF H_DEPTH 6in	m	BASIC
HKLD	Measured Hookload 6in	kN	BASIC
INCL_CONT_RT	MWD Cont Inc 6in	deg	CUSTOMER
PMPT	SRF PUMP_TM 6in	h	BASIC
PPG_ARC	Pore pressure 6in	g/cm3	BASIC
ROP	1ft ROP 6in	m/h	BASIC
ROP5	5ft ROP 6in	m/h	BASIC
ROPH	1/2ft ROP 6in	m/h	BASIC
ROPI	1ft Inverse ROP 6in	min/m	BASIC
RPI5	5ft Inverse ROP 6in	min/m	CUSTOMER
RPIH	1/2ft Inverse ROP 6in	min/m	CUSTOMER
SPPA	SRF PUMPRS 6in	kPa	BASIC
SWOB	Surface Weight on Bit 6in	kN	BASIC
TDEP	6−Inch Frame Depth	0.1 in	CUSTOMER
THKD	Total Hookload 6in	kN	BASIC

Spacing: 1.20 in **Number of Channels:** 1

Mnemonic	Long Name	Units	Properties
TDEP;1	0.1−ft Frame Depth	0.1 in	CUSTOMER

Origin: 6334

System and Miscellaneous

Spacing: 6.00 in **Number of Channels:** 58

Mnemonic	Long Name	Units	Properties
6TIM	6−in. Frame Time	ms	CUSTOMER
ATMP_CDR	Annular Temperature	degC	BASIC
AZIM_CONT_RT	MWD Cont Az 6inch	deg	CUSTOMER
BDTI	Job OnBottom (drilling) time 6in	h	BASIC
BS	Bit Size	in	BASIC
CDR_ATMP_RT	Annulus Temperature, Real−Time	degC	BASIC
CHK	SPN Sp_cHkld 6in	kN	BASIC
CRPM_RT	MWD CRPM 6in	c/min	CUSTOMER
CTH	SPN Sp_cTHlkd 6in	kN	BASIC
CWOB	SPN Sp_SWOB 6in	kN	BASIC
DTORQ	Downhole Torque	km.N	CUSTOMER
DTOR_RT	MWD DTOR 6in	km.N	BASIC
DWOB	Downhole Weight On Bit	kN	CUSTOMER
DWOB_RAW_RT	MWD DWOBraw 6in	kN	CUSTOMER
DWOB_RT	MWD DWOB 6in	kN	BASIC
ECD_CDR	Equivalent Circulating Density	g/cm3	BASIC
ECD_RT	Equivalent Circulating Density, Real−Time	g/cm3	BASIC
FPG_CDR	Fracture Pressure Gradient	g/cm3	CUSTOMER
FPG_RT	Fracture Pressure, Real−Time	g/cm3	CUSTOMER
GRM1	MWD GR(TM) 6in	gAPI	BASIC
GRR	MWD GR_M 6in	1/s	CUSTOMER
GRR_CDR_CAL	CDR Calibrated Gamma Ray	1/s	CUSTOMER
GRR_CDR_RAW	CDR Raw Gamma Ray	1/s	CUSTOMER
GR_CDR	CDR API Gamma Ray Average	gAPI	BASIC

GR_CDR_RAW_RT	Raw CDR Gamma Ray, Real−Time	gAPI	BASIC
GR_CDR_RT	CDR Gamma Ray, Real−Time	gAPI	BASIC
GR_CONF	MWD GR CONFIDENCE 6in	%	CUSTOMER
HDTH	SRF H_DEPTH 6in	m	BASIC
HKLD	Measured Hookload 6in	kN	BASIC
HTEMP	Magnetometer Temperature	degC	CUSTOMER
INCL_CONT_RT	MWD Cont Inc 6in	deg	CUSTOMER
MWD_GR_BHC	Borehole Corrected Gamma Ray	gAPI	CUSTOMER
MWD_GR_RAW	Raw Gamma Ray	1/s	CUSTOMER
NRPM_RT	MWD NRPM 6in		CUSTOMER
PMPT	SRF PUMP_TM 6in	h	BASIC
PPG_CDR	Pore Pressure Gradient	g/cm3	CUSTOMER
PPG_CDR_RT	Pore Pressure, Real−Time	g/cm3	CUSTOMER
PRSA	Annular Pressure	kPa	BASIC
PRSA_RT	Annulus Pressure, Real−Time	kPa	BASIC
ROP	1ft ROP 6in	m/h	BASIC
ROP5	5ft ROP 6in	m/h	BASIC
ROP5_RM	Rate of Penetration, Averaged over Last 5ft	m/h	BASIC
ROPH	1/2ft ROP 6in	m/h	BASIC
ROPI	1ft Inverse ROP 6in	min/m	BASIC
RPI5	5ft Inverse ROP 6in	min/m	CUSTOMER
RPIH	1/2ft Inverse ROP 6in	min/m	CUSTOMER
SPPA	SRF PUMPRS 6in	kPa	BASIC
STICKRATIO	Stick Ratio		CUSTOMER
STICK_RT	MWD PKtoPK RPM 6in	c/min	CUSTOMER
SWOB	Surface Weight on Bit 6in	kN	BASIC
TAB_CDR_GR	CDR Gamma Ray Time After Bit	s	BASIC
TDEP	6−Inch Frame Depth	0.1 in	CUSTOMER
			CUSTOMER
TEMP	Temperature	degC	CUSTOMER
TEMP_DNI_RT	MWD DNI_TEMP 6in	degC	CUSTOMER
THKD	Total Hookload 6in	kN	BASIC
TORVIB	Torsional Vibration	N.m	CUSTOMER
TVDE	True Vertical Depth	m	BASIC
VIBTOR_RT	MWD VIB_TOR 6in	N.m	CUSTOMER

Spacing: 1.20 in **Number of Channels:** 4

Mnemonic	Long Name	Units	Properties
1TIM	0.1−ft Frame Time	ms	CUSTOMER
GR_MWD_TICK	POWERPULSE Gamma Ray Sample Density		CUSTOMER
TDEP;1	0.1−ft Frame Depth	0.1 in	CUSTOMER
			CUSTOMER
TICK_CDR_GR	CDR gamma ray Depth samples		BASIC

Spacing: 3.00 in **Number of Channels:** 2

Mnemonic	Long Name	Units	Properties
3TIM	3−in. Frame Time	ms	CUSTOMER
TDEP;2	6−in. Frame Depth	0.1 in	CUSTOMER
			CUSTOMER

Frame Summary

File: **MERGE_127** Sequence: **127**

Origin: 2083

Index Type	Start	Stop	Spacing	Channels	Index Channel	Frame Name
BOREHOLE−DEPTH	2039.87 m	3591.61 m	60.0 (0.1 in) down	38	TDEP	60B
	6692.50 ft	11783.50 ft				
BOREHOLE−DEPTH	2039.87 m	3591.73 m	12.0 (0.1 in) down	2	TDEP;1	12B
	6692.50 ft	11783.90 ft				

Origin: 6334

Index Type	Start	Stop	Spacing	Channels	Index Channel	Frame Name
BOREHOLE−DEPTH	2039.87 m	3591.76 m	60.0 (0.1 in) down	58	TDEP	60B
	6692.50 ft	11784.00 ft				
BOREHOLE−DEPTH	2039.87 m	3591.76 m	12.0 (0.1 in) down	4	TDEP;1	12B
	6692.50 ft	11784.00 ft				
BOREHOLE−DEPTH	2039.87 m	3591.69 m	30.0 (0.1 in) down	2	TDEP;2	30B
	6692.50 ft	11783.75 ft				