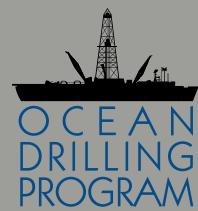


ODP

Processing Notes:

Standard (non-image) Data



Any opinions, findings, and conclusions or recommendations expressed in this document are those of the author(s) and do not necessarily reflect the views of the National Science Foundation, Joint Oceanographic Institutions, Inc., or ODP member countries.

3/2004

Processing Notes: Standard (non-image) Data

First leg logged: Leg 101

Last leg logged: Leg 209

Tools Used

A variety of tools have been used in different combinations during logging operations.

Wireline standard tools (non including imaging and geochemical tools) are:

1. Acoustic (BHC, DSI, LSS/SDT)
2. Natural radioactivity (GR, HNGS, NGT, SGT)
3. Resistivity (DIT, DLL)
4. Density (LDT, HLDS, HLDT)
5. Porosity (APS, CNT)
6. Hole diameter (MCD)

Logging-While-Drilling tools are:

1. Acoustic (ISONIC)
2. Resistivity (CDR, RAB)
3. Density-porosity (ADN, CDN))

Note: Natural radioactivity is measured as part of the Logging-While-Drilling resistivity tool suite.

Data Processing

As in the case of other data sets, the main purpose of the processing of standard data is to provide scientists with a fully depth-shifted, environmentally corrected, and quality controlled log data set. This data set can then be used for comparison and integration with core and seismic data from each ODP leg: the Sagan in-house software is used to put cores and logs on the same depth scale; and IESX software is used to analyze seismic sections and generate synthetic seismograms from the logs.

This processing comprises:

- a) Depth adjustments to remove depth offsets between data from different logging runs and to depth-shift them to the sea floor

- b) Environmental corrections specific to certain tools and logs
- c) Editing and processing of acoustic data (transit times) to provide reliable velocity outputs
- d) Assessment of log quality
- e) Conversion of the data to ASCII format
- f) Preparation of a document including a summary of the processing performed and an assessment of the quality of the data.

A detailed description of each step of the processing is provided in the Logging Manual CD-ROM.

Data Processing History

Two log analysis packages have been used to process standard logs: Schlumberger Logos on a Vax machine from Leg 101 to Leg 186; and Schlumberger GeoQuest's GeoFrame on a Unix machine from Leg 188 to Leg 209.

Most processing has been carried out by personnel at the LDEO-BRG log analysis facility. Some processing was completed at the Leicester University log analysis center.

Data storage

The original standard data in LIS/DLIS format are stored on CD-ROM, along with other logging data recorded during each leg. They are also saved in the archive directory on the LDEO-BRG file server.

Processed data are available through the online database, along with any related documentation. They are also saved on 4-mm DAT tapes.

STANDARD (non-image) DATA SUMMARY TABLE

LOGGING DATE	LEG	HOLE	ACT	ADN	APS	ARI	BHC	CDN	CDR	CNTG	DIT	DLL	DSI	GR	GST	HLDS	HLDT	HNGS	ISONIC	LDT	LSS	MCD	NGT	RAB	SDT	SGT				
1985	101	626D							X					X																
1985	101	627B								X										X				X						
1985	101	634A								X					X	X														
1985	102	418A									X	X	X		X						X	X	X	X						
1985	103	637A									X	X			X						X	X	X	X						
1985	103	638B										X			X							X	X							
1985	103	638C									X	X			X						X	X	X	X						
1985	103	639D									X	X			X						X	X	X	X						
1985	103	641C									X										X			X						
1985	104	642D										X	X		X						X	X	X	X						
1985	104	642E										X	X		X						X	X	X	X						
1985	105	645E											X		X							X	X							
1985	105	646B										X	X		X	X						X	X	X						
1985	105	647A											X		X							X	X							
1986	107	651A										X	X		X						X	X	X	X						
1986	107	652A											X	X		X	X					X	X	X						
1986	107	655B											X		X							X	X							
1986	108	661A											X		X							X	X	X						
1986	109	395A	X										X	X		X	X					X	X	X	X					
1986	110	671C												X		X							X	X						
1986	110	672A												X		X							X	X						
1986	110	676A												X		X							X	X	X					
1986	111	504B	X											X	X		X						X			X				
1986	112	679E	X											X	X		X	X					X	X	X	X				
1986	112	685A	X											X	X		X	X					X	X	X	X				
1987	113	693A													X		X						X	X						
1987	113	696B													X		X						X	X						
1987	114	700B													X											X				
1987	114	703A													X		X									X				
1987	114	704B	X												X	X		X	X						X	X	X			
1987	115	707C													X		X									X				
1987	115	715A	X												X	X		X	X						X	X	X			
1987	116	718C	X												X		X								X	X	X			
1987	116	718E														X										X		X		
1987	116	719B	X												X	X		X							X	X	X			
1987	117	720A														X		X								X				
1987	117	722B													X	X		X	X						X		X			
1987	117	723B	X												X	X		X	X						X		X			

LOGGING DATE	LEG	HOLE	ACT	ADN	APS	ARI	BHC	CDN	CDR	CNTG	DIT	DLL	DSI	GR	GST	HLDS	HLDT	HNGS	ISONIC	LDT	LSS	MCD	NGT	RAB	SDT	SGT
1987	117	728A	X			X				X				X X									X			
1987	117	731C	X			X				X X				X X									X			
1987	118	735B	X							X X X				X X								X	X X			
1988	119	737B								X X				X								X X X			X	
1988	119	738C								X X				X								X X X	X			
1988	119	739C								X				X								X X X				
1988	119	742A								X X				X								X X X X				
1988	120	747C								X												X X			X	
1988	120	750A									X											X X			X	
1988	121	752B	X							X X				X								X X			X	
1988	121	754B	X							X X				X								X X X				
1988	121	758A	X			X				X				X X									X			
1988	122	759B									X											X X			X	
1988	122	760B									X X											X X			X	
1988	122	761C	X								X				X							X X			X	
1988	122	762C	X								X X				X							X	X X		X	
1988	122	763B									X											X X			X	
1988	122	763C									X											X X			X	
1988	122	764B	X								X				X								X			
1988	123	765C									X X											X X X X				
1988	123	765D	X								X X				X							X X X X				
1988	123	766A	X								X X				X							X X X X				
1988	124	767B	X								X				X							X X X X				
1988	124	768C									X X											X X X X				
1988	124	770C	X								X X				X							X X X X				
1989	125	782B	X								X				X	X							X		X	
1989	125	786B	X								X X				X	X							X		X	
1989	126	791B	X											X									X			
1989	126	792E	X								X				X	X						X		X		
1989	126	793B	X								X				X							X		X		
1989	127	794B	X								X X				X	X						X		X		
1989	127	795B									X X						X					X		X		
1989	127	796B	X								X X				X	X						X		X		
1989	127	797C	X								X X				X	X						X		X		
1989	128	794D									X												X		X	
1989	128	798B	X								X X				X							X	X X		X	
1989	128	799A	X								X X				X							X	X X		X	
1989	128	799B	X								X X				X							X	X X		X	
1989	129	800A	X								X				X	X							X		X	
1989	129	801B	X								X				X	X							X		X	
1989	129	802A	X								X				X	X							X		X	
1989	130	803D	X			X				X							X						X			

LOGGING DATE	LEG	HOLE	ACT	ADN	APS	ARI	BHC	CDN	CDR	CNTG	DIT	DLL	DSI	GR	GST	HLDS	HLDT	HNGS	ISONIC	LDT	LSS	MCD	NGT	RAB	SDT	SGT		
1989	130	805C	X							X				X	X						X		X					
1990	130	806B	X							X				X	X	X					X		X					
1990	130	807A	X							X						X					X		X					
1990	130	807C	X							X						X					X		X					
1990	131	808B								X							X					X		X				
1990	131	808C	X							X					X	X							X					
1990	131	808E								X														X				
1990	133	812B								X							X						X	X		X		
1990	133	814A									X						X						X	X		X		
1990	133	815A	X							X					X	X						X	X		X			
1990	133	816C								X						X							X		X			
1990	133	817D	X							X					X	X						X	X		X			
1990	133	819A								X						X						X	X		X			
1990	133	820B	X							X					X	X						X	X		X			
1990	133	821A								X						X						X	X		X			
1990	133	822A	X							X					X	X						X	X		X			
1990	133	823C	X							X					X	X						X	X		X			
1990	133	824D								X													X	X		X		
1990	133	825B								X													X	X		X		
1990	134	829A	X							X					X	X						X	X		X			
1990	134	830C	X							X					X	X							X		X			
1990	134	831B	X							X					X	X							X		X			
1990	134	832B								X						X							X	X		X		
1990	134	833B	X							X					X	X							X		X			
1990	135	834B	X							X	X				X	X							X	X		X		
1990	135	835B								X	X						X						X	X		X		
1991	135	838B	X							X	X				X	X							X	X		X		
1991	135	839B	X							X	X				X	X							X	X		X		
1991	135	840B	X							X	X				X	X							X	X		X		
1991	135	841C								X	X						X						X	X		X		
1991	136	843A								X							X							X		X		
1991	136	843B	X							X					X	X							X		X			
1991	138	844B	X							X					X	X								X		X		
1991	138	845A	X							X					X	X							X		X			
1991	138	846B	X							X					X	X							X	X		X		
1991	138	847B	X							X					X	X		X					X		X			
1991	138	848B	X													X								X			X	
1991	138	849B	X							X					X	X		X					X		X			
1991	138	850B	X							X					X	X		X						X		X		
1991	138	851B	X							X					X	X		X					X		X			
1991	138	852D	X							X						X							X		X			
1991	139	856H								X													X	X		X		

LOGGING DATE	LEG	HOLE	ACT	ADN	APS	ARI	BHC	CDN	CDR	CNTG	DIT	DLL	DSI	GR	GST	HLDS	HLDT	HNGS	ISONIC	LDT	LSS	MCD	NGT	RAB	SDT	SGT
1991	139	857C							X X							X						X X		X		
1991	139	857D							X X							X						X X		X		
1991	139	858F								X												X X		X		
1991	139	858G								X						X						X X				
1991	140	504B	X								X				X								X	X	X	
1991	141	859B	X								X				X	X							X	X	X	
1992	141	860B								X												X X		X	X	
1992	141	863B	X							X					X	X						X X		X	X	
1992	143	865A	X							X X					X	X						X	X			
1992	143	866A	X							X X					X	X						X	X			
1992	143	867B								X X							X					X		X		
1992	143	869B	X							X X					X	X						X	X			
1992	144	801C	X							X X					X	X							X			
1992	144	871C	X								X					X	X						X		X	
1992	144	873A	X							X X					X	X						X		X		
1992	144	874B	X							X X					X	X						X				
1992	144	878A	X							X X					X	X						X		X		
1992	144	879A								X X							X					X		X		
1992	145	881C								X X							X						X		X	
1992	145	883F	X							X X					X	X						X		X		
1992	145	884E	X							X X					X	X						X		X		
1992	145	887D								X X							X						X		X	
1992	146	888C								X X							X						X		X	
1992	146	889A								X X							X						X		X	
1992	146	889B								X X							X						X		X	
1992	146	891C	X							X X					X	X						X		X		
1992	146	892C									X X							X					X		X	
1993	147	894G									X					X				X		X				
1993	148	504B									X X												X		X	
1993	148	896A	X								X X												X		X	
1993	149	899B	X								X X		X										X		X	
1993	149	900A										X											X			
1993	150	902D									X X												X		X	
1993	150	903A									X X												X			
1993	150	903C									X X							X					X		X	
1993	150	904A									X X		X			X							X		X	
1993	150	905A									X X		X			X							X		X	
1993	150	906A	X								X X		X		X	X							X		X	
1993	151	907A	X								X X		X		X	X							X			
1993	151	908A									X X		X										X			
1993	151	909C									X							X					X		X	
1993	151	910C									X							X					X		X	

LOGGING DATE	LEG	HOLE	ACT	ADN	APS	ARI	BHC	CDN	CDR	CNTG	DIT	DLL	DSI	GR	GST	HLDS	HLDT	HNGS	ISONIC	LDT	LSS	MCD	NGT	RAB	SDT	SGT	
1993	151	911A	X							X						X							X		X		
1993	152	917A									X						X						X		X		
1994	154	925A									X	X					X						X		X		
1994	154	925C									X	X					X						X		X		
1994	154	926B	X								X					X	X						X		X		
1994	154	927C									X						X						X		X		
1994	154	928B									X						X						X		X		
1994	154	929E	X								X					X	X						X		X		
1994	155	931B	X								X	X				X	X						X		X		
1994	155	933A									X	X					X						X		X		
1994	155	934B									X												X		X		
1994	155	935A									X	X					X		X				X		X		
1994	155	936A	X								X	X				X	X		X				X		X		
1994	155	940A									X	X					X		X				X		X		
1994	155	944A									X	X					X		X				X		X		
1994	155	946A									X	X					X		X				X		X		
1994	156	947A							X	X																	
1994	156	948A								X	X																
1994	156	948C																X		X							
1994	156	948D																									
1994	156	949C																									
1994	157	950A	X								X	X				X	X						X		X		
1994	157	952A									X	X					X						X		X		
1994	157	953C									X	X					X						X		X		
1994	157	955A	X								X	X				X	X						X		X		
1994	157	956B	X								X	X				X	X						X		X		
1995	159	959D	X								X	X				X	X						X		X		
1995	159	960A									X						X						X		X		
1995	159	960C									X							X					X		X		
1995	159	962D									X						X						X		X		
1995	160	965A									X	X						X					X		X		
1995	160	966F									X	X						X					X		X		
1995	160	967E	X								X	X				X	X						X		X		
1995	160	968A									X	X					X						X		X		
1995	160	970A									X	X						X					X		X		
1995	160	971B									X	X					X						X		X		
1995	160	973D									X												X		X		
1995	161	974C	X								X	X				X	X						X		X		
1995	161	975C	X								X	X				X	X						X		X		
1995	161	976B	X								X	X				X	X						X		X		
1995	161	976E									X	X						X					X		X		
1995	161	977A									X	X						X					X		X		

LOGGING DATE	LEG	HOLE	ACT	ADN	APS	ARI	BHC	CDN	CDR	CNTG	DIT	DLL	DSI	GR	GST	HLDS	HLDT	HNGS	ISONIC	LDT	LSS	MCD	NGT	RAB	SDT	SGT
1995	161	979A							X X							X							X		X	
1995	162	982B							X X							X							X		X	
1995	162	984B	X						X X					X	X								X		X	
1995	162	986C							X X							X							X		X	
1995	162	986D							X X							X							X		X	
1995	162	987E							X X							X							X		X	
1995	164	994C	X						X X					X	X								X		X	
1995	164	994D								X						X							X		X	
1995	164	995B	X						X X					X	X								X		X	
1995	164	997B	X							X X				X	X								X		X	
1996	165	1000B							X X							X							X		X	
1996	165	1001A							X X							X							X		X	
1996	165	998B	X						X X					X	X								X		X	
1996	165	999B	X						X X					X	X								X		X	
1996	166	1003D	X							X				X	X	X							X	X	X	
1996	166	1005A								X					X	X							X	X	X	
1996	166	1005C								X					X	X							X	X	X	
1996	166	1006A								X					X	X							X	X	X	
1996	166	1007C								X X						X							X		X	
1996	167	1011B									X						X X						X		X	
1996	167	1014A								X						X X							X		X	
1996	167	1016A								X						X X							X		X	
1996	167	1018A								X						X X							X			
1996	167	1019C								X						X X							X		X	
1996	167	1020B								X						X X							X		X	
1996	167	1022C								X						X X							X		X	
1996	168	1032A	X								X				X	X X							X		X	
1996	169	1037B								X						X X							X		X	
1996	169	856H								X						X X							X		X	
1996	170	1039D							X X																	
1996	170	1040C								X							X						X		X	
1996	170	1040D							X X																	
1996	170	1040E							X X																	
1996	170	1042C							X																	
1996	170	1043B							X X																	
1996	171A	1044A							X X																	
1996	171A	1045A							X X																	
1996	171A	1046A							X X																	
1996	171A	1047A							X X																	
1996	171A	1048A							X X																	
1997	171B	1050C								X							X X						X		X	
1997	171B	1051A							X							X X							X			

LOGGING DATE	LEG	HOLE	ACT	ADN	APS	ARI	BHC	CDN	CDR	CNTG	DIT	DLL	DSI	GR	GST	HLDS	HLDT	HNGS	ISONIC	LDT	LSS	MCD	NGT	RAB	SDT	SGT
1997	171B	1052E							X							X X						X		X		
1997	172	1061A								X							X X					X		X		
1997	172	1063A								X							X X					X		X		
1997	173	1065A								X							X X					X		X		
1997	173	1068A								X							X X									
1997	173	1069A								X						X X										
1997	174A	1071E																								
1997	174A	1071G							X X																	
1997	174A	1072A									X						X X									
1997	174A	1072B									X											X		X		
1997	174A	1072C							X X																	
1997	174A	1072D							X X																	
1997	174A	1073A								X						X X				X		X				
1997	174B	395A								X						X X								X		
1997	175	1077A								X														X		X
1997	175	1081A								X						X X								X		X
1997	175	1082A								X						X X								X		X
1997	175	1084A								X						X X								X		X
1997	175	1085A								X						X X								X		X
1997	175	1087C								X														X		X
1997	176	735B									X X					X X X								X		
1998	177	1093D								X						X X								X		
1998	178	1095B														X X								X		
1998	178	1096C														X X								X		
1998	178	1103A								X						X X								X		X
1998	179	1105A						X		X						X X								X		X
1998	180	1108B								X							X									
1998	180	1109D								X						X X								X		X
1998	180	1114A								X						X X								X		X
1998	180	1115C								X						X X								X		X
1998	180	1118A								X						X X								X		X
1998	181	1119C								X						X X								X		X
1998	181	1123B								X						X X								X		X
1998	181	1124C								X						X X								X		X
1998	181	1125B								X						X X								X		
1998	182	1126D								X						X X								X		X
1998	182	1127B								X							X							X		X
1998	182	1128D								X						X X								X		X
1998	182	1129D								X						X X								X		X
1998	182	1130C								X						X X								X		X
1998	182	1131A								X						X X								X		X
1998	182	1132C								X						X X								X		X

LOGGING DATE	LEG	HOLE	ACT	ADN	APS	ARI	BHC	CDN	CDR	CNTG	DIT	DLL	DSI	GR	GST	HLDS	HLDT	HNGS	ISONIC	LDT	LSS	MCD	NGT	RAB	SDT	SGT
1998	182	1134A							X					X	X							X		X		
1999	183	1137A									X	X			X	X						X		X		
1999	183	1139A								X											X		X			
1999	183	1140A							X					X	X			X			X		X			
1999	184	1143A							X					X	X			X			X		X			
1999	184	1144A							X					X	X			X			X		X			
1999	184	1146A							X					X	X			X			X		X			
1999	184	1148A							X					X	X			X			X		X			
1999	185	801C								X				X	X			X			X		X			
1999	185	1149B	X						X	X				X	X			X			X		X			
1999	186	1150B								X	X			X	X			X			X		X			
1999	186	1151D								X				X	X			X			X		X			
2000	188	1165C								X	X			X	X								X			
2000	188	1166A								X	X			X	X								X			
2000	188	1166B							X																	
2000	188	1167A								X				X	X											
2000	188	1167B							X																	
2000	189	1168A								X	X			X	X								X			
2000	189	1170D								X	X			X	X								X			
2000	189	1171D								X				X	X											
2000	189	1172D								X	X			X	X								X			
2000	190	1173A								X	X			X	X								X			
2000	191	1179D								X						X	X									
2000	192	1186A		X						X	X			X	X								X			
2000	193	1188A																								
2000	193	1188B																						X		
2000	193	1188F		X							X	X			X	X							X			
2000	193	1189B		X							X	X			X	X							X			
2001	193	1189C		X							X				X	X							X	X		
2001	194	1194B		X							X				X	X						X	X			
2001	194	1195B		X							X				X	X										
2001	194	1196A		X							X				X	X						X	X			
2001	194	1198B		X							X				X	X										
2001	194	1199A		X							X				X	X			X			X	X			
2001	195	I201D		X								X				X	X				X		X			
2001	196	808I	X															X						X		
2001	196	1173B	X															X						X		
2001	196	1173C	X															X						X		
2001	197	I203A		X								X	X			X	X						X			
2001	198	I207B		X								X	X			X	X						X			
2001	198	I213B		X								X	X			X	X									
2001	199	I218A		X								X	X			X	X						X			

LOGGING DATE	LEG	HOLE	ACT	ADN	APS	ARI	BHC	CDN	CDR	CNTG	DIT	DLL	DSI	GR	GST	HLDS	HLDT	HNGS	ISONIC	LDT	LSS	MCD	NGT	RAB	SDT	SGT
2001	199	I219A			X					X		X				X	X						X			
2002	200	I224F			X					X		X				X	X						X			
2002	201	I225A			X					X							X	X							X	
2002	201	I226B			X					X							X	X							X	
2002	201	I228A			X					X							X	X							X	
2002	201	I229A			X					X							X	X							X	
2002	201	I230A			X					X		X					X	X					X		X	
2002	202	I238A			X					X		X				X	X								X	
2002	202	I239A			X					X		X				X	X								X	
2002	202	I241B			X					X		X				X	X								X	
2002	203	I243B			X					X		X				X	X								X	
2002	204	I244D	X																						X	
2002	204	I244E			X						X		X					X	X							X
2002	204	I245A	X																						X	
2002	204	I245E			X						X		X					X	X							X
2002	204	I246A	X																						X	
2002	204	I247A	X																						X	
2002	204	I247B			X						X		X					X	X							X
2002	204	I248A	X																						X	
2002	204	I249A	X																						X	
2002	204	I249B																							X	
2002	204	I250A	X																						X	
2002	204	I250B	X																						X	
2002	204	I250F			X						X		X					X	X							X
2002	204	I251A	X																						X	
2002	204	I251H			X						X		X					X	X						X	
2002	204	I252A			X						X		X				X	X							X	
2002	205	I253A	X								X		X				X	X							X	
2002	206	I256C			X							X							X	X						X
2002	206	I256D			X							X	X					X	X							X
2003	207	I257A			X						X						X	X					X		X	
2003	207	I258C			X						X						X	X						X	X	
2003	207	I260B			X						X						X	X						X	X	
2003	207	I261B			X						X						X	X						X	X	
2003	208	I263A			X						X		X				X	X							X	
2003	208	I265A			X						X		X				X	X							X	
2003	209	I272A									X		X				X	X							X	
2003	209	I275C									X		X				X	X							X	
2003	209	I275D			X						X		X				X	X							X	