

R/V ~~ROBERT H. STANLEY~~ VEMA

Cruise: V3614

Line: ~~25~~ 62

## RECORDING LOG

MCS

China Margin  
~~MANA~~ - HONG KONG

DFS IV

Format: SEG B

BPI: 800

①

Date	Tape #	Shot Point #	Time	Trip Delay SEC	Depth	Pop Rate SEC	Samp. Rate SEC	Rec. L. SEC	Comments
3	133	0001	2009	2.0	2080	20.0	4ms	12	
AUG	134	0094	2041	"	2000	"	"	"	CHANGED LINE NO. AT SP 130
1980	135	0186	2113	"	2000	"	"	"	
	136	0279	2144	"	2000	"	"	"	
	137	0371	2216	"	2010	"	"	"	missed 1 shot
	138	0464	2247	"	2000	"	"	"	
	139	0555	2318	"	2000	"	"	"	
	140	0647	2350	"	<del>1980</del>	"	"	"	
4 Aug 80	141	0739	0022	"	1900	"	"	"	
	142	831	0053	"	1900	"	"	"	
	143	934	0128	"	1850	"	"	"	SHOTS MISSED -
	144	1054	0207	"	1850	"	"	"	missed 21 shots
	145	1138	0238	"	1820	"	"	"	
	146	1230	0310	"	1810	"	"	"	
	147	1321	0341	"	1800	"	"	"	AC TO 3 DP - 0400
	148	1413	0412	"	1900	"	"	"	
	149	1507	0447	"	1400	"	"	"	GUNS SHUT OFF - 0447. GUNS ON - 0719
	149	1522	0719	2.0		"	"	"	
	150	1615	0751	2.0	1700	"	"	"	missed 60 shots LS 1708
	151	1769	0844	2.0	1400	"	"	"	removed early (high priority)

R/V ROBERT D. CONRAD Vema

Cruise: V3614

Line: 68

RECORDING LOG  
MCS~~AAATTA~~  
China Margin

DFS IV

Format: SEG B

BPI: 800

Date GMT	Tape #	Shot Point #	Time GMT	Trip Delay sec	Depth fms	Pop Rate sec	Samp. Rate msec	Rec. L. sec	Comments
8/4/80	152	1810	0852	2.0	1660	20	4	12	0900 A/C to 320 4/5-7/905
	153	1907	0931	2.0	1660	20	4	12	
	154	2000	1003	"	1660	"	"	"	missed 1 shot
	155	2093	1039	"	1660	"	"	"	SB 216 @ 1020
	156	2185	1106	"	1660	"	"	"	
	157	2277	1138	"	1660	"	"	"	
	158	2369	1209	"	1590	"	"	"	
	159	2461	1241	"	1500	"	"	"	A/C → 330 @ 1300
	160	2554	1313	"	1500	"	"	"	
	161	2646	1344	"	"	"	"	"	
	162	2739	1416	"	1395	"	"	"	
	163	2831	1448	"	1265	"	"	"	Missed 1 shot
	164	2924	1519	"	1400	"	"	"	
	165	3017	1551	"	1490	"	"	"	
	166	3109	1622	"	1450	"	"	"	
	167	3202	1654	"	1530	"	"	"	Missed 1 shot
	168	3295	1726	"	1510	"	"	"	
	169	3388	1757	"	1320	"	"	"	
	170	3481	1829	"	1260	"	"	"	A/C 350° @ 1830
	171	3574	1901	"	1330	"	"	"	

F72

3666

1433

R/V ROBERT D. CONRAD *VEINA*Cruise: *V3614*Line: *68*

## RECORDING LOG

MCS

*CHINA MARGIN*

DFS IV

Format: *56B*BPI: *800*

Date	Tape #	Shot Point #	Time GMT	Trip Delay SEC	Depth fms	Pop Rate SEC	Samp. Rate MSEC	Rec. L. SEC	Comments
<del>8/4/80</del>	172	3666	1933	2.0	1280	20	4	12	
8/4/80	173	3759	2004	"	1220	"	"	"	A/C @ 2030 → 020°
	174	3852	2036	"	1310	"	"	"	
	175	3946	2108	"	1240	"	"	"	
	176	4038	2140	"	1350	"	"	"	
	177	4130	2200	"	1360	"	"	"	
	178	4222	2243	"	1365	"	"	"	
	179	4314	2315	"	1365	"	"	"	A/C @ 2320 →
	180	4406	2346	"	1340	"	"	"	o
8/5/80	181	4523	0026	"	1332	"	"	"	missed 25 shots
<del>4</del>	182	4617	0058	"	1330	"	"	"	
<del>Aug</del>	183	4710	0130	"	1310	"	"	"	
<del>PR</del>	184	4802	0200	"	1300	"	"	"	SCOW AHEAD SP4831 FISHING BOAT
	185	4895	0233	"	1300	"	"	"	5 KTS AHEAD SP4870 IN OUR WAY
	186	4987	0305	"	1300	"	"	"	
	187	5086	0339						MISSED SHOTS
	188	5178	0410	"	1200	"	"	"	
	189	5270	0441	"	1135	"	"	"	
	190	5361	0512	"	1100	"	"	"	
	191	5454	0544	"	1030	"	"	"	

R/V ROBERT D. CONRAD *Vema*  
Cruise: *V3614*  
Line: *68*

RECORDING LOG  
MCS

*China Margin*

DFS IV  
Format: *SegB*  
BPI: *800*

(4)

Date	Tape #	Shot Point #	Time	Trip Delay	Depth	Pop Rate	Samp. Rate	Rec. L.	Comments
<i>8/2/80</i>	<i>192</i>	<i>5546</i>	<i>0616</i>	<i>2.0</i>	<i>900</i>	<i>20</i>	<i>4</i>	<i>12</i>	<i>Bad tape (maybe?)</i>
	<i>192</i>	<i>5558</i>	<i>0620</i>	<i>"</i>	<i>900</i>	<i>"</i>	<i>"</i>	<i>"</i>	<i>missed 20 shots</i>
	<i>192</i>	<i>5566</i>	<i>0622</i>	<i>"</i>	<i>900</i>	<i>"</i>	<i>"</i>	<i>"</i>	
	<i>193</i>	<i>5657</i>	<i>0654</i>	<i>0</i>	<i>865</i>	<i>"</i>	<i>"</i>	<i>"</i>	<del>START</del> START '0' DELAY SP. 5 657
	<i>194</i>	<i>5759</i>	<i>0729</i>	<i>0</i>	<i>860</i>	<i>"</i>	<i>"</i>	<i>"</i>	
	<i>195</i>	<i>5851</i>	<i>0800</i>	<i>0</i>	<i>770</i>	<i>"</i>	<i>"</i>	<i>"</i>	<i>A/C 325 AT 0800</i>
	<i>196</i>	<i>5943</i>	<i>0832</i>	<i>0</i>	<i>1000</i>	<i>"</i>	<i>"</i>	<i>"</i>	
	<i>197</i>	<i>6038</i>	<i>0903</i>	<i>0</i>	<i>1090</i>	<i>"</i>	<i>"</i>	<i>"</i>	<i>missed 10 shots</i>
	<i>198</i>	<i>6131</i>		<i>0</i>	<i>1030</i>	<i>"</i>	<i>"</i>	<i>"</i>	
	<i>199</i>	<i>6234</i>	<i>1011</i>	<i>"</i>	<i>975</i>	<i>"</i>	<i>"</i>	<i>"</i>	
	<i>200</i>	<i>6327</i>	<i>1043</i>	<i>"</i>	<i>940</i>	<i>"</i>	<i>"</i>	<i>"</i>	
	<i>201</i>	<i>6419</i>	<i>1115</i>	<i>"</i>	<i>880</i>	<i>"</i>	<i>"</i>	<i>"</i>	
	<i>202</i>	<i>6512</i>	<i>1146</i>	<i>"</i>	<i>740</i>	<i>"</i>	<i>"</i>	<i>"</i>	
	<i>203</i>	<i>6606</i>	<i>1219</i>	<i>"</i>	<i>660</i>	<i>"</i>	<i>"</i>	<i>"</i>	<i>A/C → 310° @ 1259<sup>Z</sup> sp 6666</i>
	<i>204</i>	<i>6698</i>	<i>1250</i>	<i>"</i>	<i>210</i>	<i>"</i>	<i>"</i>	<i>"</i>	<i>AS incr. rev to 150 "</i>
	<i>205</i>	<i>6785</i>	<i>1320</i>	<i>"</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>A/C → 335°</i>
	<i>205</i>	<i>6792</i>	<i>1331</i>	<i>"</i>	<i>140</i>	<i>"</i>	<i>"</i>	<i>"</i>	<i>SB 1346Z</i>
	<i>206</i>	<i>6884</i>	<i>1352</i>	<i>"</i>	<i>150125</i>	<i>"</i>	<i>"</i>	<i>"</i>	
	<i>207</i>	<i>6975</i>	<i>1425</i>	<i>"</i>	<i>12385</i>	<i>"</i>	<i>"</i>	<i>"</i>	
	<i>208</i>	<i>7067</i>	<i>1456</i>	<i>"</i>	<i>70</i>	<i>"</i>	<i>"</i>	<i>"</i>	

Line: 68

## M C S

CHINA MARGIN

DFS IV

Format: SG B

BPI: 800

[illegible]

VEMA  
R/V ROBERT D. CONRAD  
Cruise: V3614  
Line: 69

RECORDING LOG  
MCS  
CHINA MARGIN

DFS IV  
Format: SEC D  
BPI: 800

6

Date	Tape #	Shot Point #	Time GMT	Trip Delay SEC	Depth fms	Pop Rate SEC	Samp. Rate MSEC	Rec. L. SEC	Comments
8/5/80	214	1	1836	0	25	20	4	12	1836 A/C → 260°
	215	93	1907	0	20	20	4	12	
	216	195	1942	0	25	20	4	12	missed 10 9 shots
	217	288	2014	0	25	20	4	12	
	218	380	2045	0	25	20	4	12	
	219	472	2117	0	25	20	4	12	
	220	561	2149	0	25	20	4	12	SB #220 - SP 591
	221	656	2220	0	25	20	4	12	
	222	748	2251	0	25	20	4	12	
	223	840	2323	0	25	20	4	12	
	224	940	2357	0	25	20	4	12	
8/6/80	225	1024	0026	0	25	20	4	12	
	226	1116	0057	0	25	20	4	12	A/C → 272 at 0130 A/S → 190
	227	1208	0130	0	25	20	4	12	
	228	1300	0200	0	25	20	4	12	
	229	1392	0232	0	25	20	4	12	
	230	1484	0303	0	26	20	4	12	
	231	1576	0335	0	25	20	4	12	SB # - SP 1593
	232	1669		0	25	20	4	12	Bad start missed 7 shots
	232	1676	0409		25	20	4	12	

VEMA  
R/V ROBERT D. CONRAD  
Cruise: V36-14  
Line: 69

## RECORDING LOG

M C S

CHINA MARGIN

DFS IV

Format: *SEGB*

BPI: 800

[illegible]

R/V ROBERT D. CONRAD VEMA

Cruise: 3614

Line: ~~6~~ 70

## RECORDING LOG

MCS

CHINA MARGIN

DFS IV

Format: SEC. B.

BPI: 800

(P)

Date	Tape #	Shot Point #	Time GMT	Trip Delay SEC	Depth FMS	Pop Rate SEC	Samp. Rate MSEC	Rec. L. SEC.	Comments
8/6/80	237	8001	0820	0	24	20	4	12	START LINE 70
	238	0092	0852	0	24	20	4	12	SB#223 at beginning of line
	239	0184	0923	0	24	20	4	12	
	240	0276	0955	0	24	20	4	12	SB#224 at 1000Z, pit log 661.2
	241	368	1026	0	24	19	"	"	increase pop rate to 19/sec
	242	461	1057	0	"	"	"	"	
	243	553	1127	0	24	"	"	"	SB#225 @ 1151Z
	244	645	1156	"	24	"	"	"	
	245	736	1226	"	24	"	"	"	
	246	828	1256	"	2440	"	"	"	
	247	920	1326	"	40	"	"	"	
	248	1013	1356	"	52	"	"	"	
	249	1106	1427	"	70	"	"	"	
	250	1199	1457	"	78	"	"	"	
	251	1292	1527	"	110	"	"	"	
	252	1385	1557	"	125	"	"	"	A/C → @ 1600
	253	1478	1628	"	143	"	"	"	
	254	1571	1658	"	155	"	"	"	
	255	1664	1728	"	165	"	"	"	
	256	1758	1759	"	180	"	"	"	



R/V ROBERT D. CONRAD VEMA

Cruise: 36-14

Line: 70

RECORDING LOG  
MCS

China Margin

DFS IV (9)

Format: SEC. B.

BPI: 800

Date	Tape #	Shot Point #	Time GMT	Trip Delay SEC	Depth FMS	Pop Rate SEC	Samp. Rate MSEC	Rec. L. SEC	Comments
8/6/80	257	1870	1835	0	192	2019	4	12	Missed p. 19
	258	1963	1905	0		"	"	"	
		6UNS	OFF		Compressor	PROG.			#1987 @ 1913 1915 AS → 1910
		TAPES →	OFF						
	259	2003	1918	0	200	2011	4	12	RESUME RECORDING
	260	2096	1948	0	200	"	"	"	
	261	2189	2019	0	200	19	"	"	
	262	2282	2049	0	200	19 → 20	"	"	#2285 RATE → 20. SEC
	263	2374	2121	0	210	20	"	"	
	264	2467	2152	0	215	"	"	"	
	265	2559	2224	0	220	"	"	"	
	266	2651	2255	0	285	"	"	"	
	267	2743	2327	0	285	"	"	"	
	268	2835	2358	0	285	20	4	12	A/C → 172 2345
7	269	2927	0030	0	285	20	4	12	SIB# 226 @ 0011
AUG	270	3020	0101	0	285	20	4	12	
80	271	3112	0133	0	285	20	"	"	
	272	3204	0205	0	325	20	"	"	
	273	3296	0236	0	325	"	"	"	
	274	3388	0308	0	327	"	"	"	

VEMA  
R/V ROBERT D. CONRAD  
Cruise: 36-14  
Line: 70

RECORDING LOG  
MCS

CHINA MARGIN

DFS IV (70)  
Format: SEG B  
BPI: 800

Date	Tape #	Shot Point #	Time GMT	Trip Delay SEC	Depth FMS	Pop Rate SEC	Samp. Rate MIN-SEC	Rec. L. SEC	Comments
7	275	3481	0339	0	328	20	4	12	AVG. 5.1 KTS. OVER
Aug	276	3573	0411	0	400	20	4	12	
1980	277	3665	0442	"	450	"	"	"	
	278	3757	0514	"	480	"	"	"	
	279	3849	0545	"	575	"	"	"	
	280	3941	0617	"	700	"	"	"	
	281	4034	0648	"	750	"	"	"	
	282	4125	0719	"	750	"	"	"	
	283	4216	0751	"	750	"	"	"	
	284	4311	0823	"	927	"	"	"	
	285	4401	0901	"	940	"	"	"	missed ~ 15 shots SB 227 0901
	286	<del>4520</del> 4577	0933	"	1175	"	"	"	missed 6 shots - tape drive MX-1P
	287	4615	1007	"	1250	"	"	"	
	288	4607	1039	"	1240	"	"	"	
	289	4799	1110	"	1225	"	"	"	
	290	4885	1140	"	1310	"	"	"	
	291	4977	1211	"	1125	"	"	"	
	292	5069	1243	"	1250	"	"	"	
	293	5161	1314	"	1400	"	"	"	
	294	5248	1344	"	1500	"	"	"	

R/V ROBERT D. CONRAD

VEM/4

## RECORDING LOG

MCS

Cruise: 36-14

Line: 70

China Margin

DFS IV

(11)

Format: SEG B

BPI: 500

Date	Tape #	Shot Point #	Time GMT	Trip Delay Sec	Depth Fms	Pop Rate Sec	Samp. Rate mSec	Rec. L. Sec	Comments
7 Aug	295	5341	1416	0	1520	20	4	12	
1950	296	5434	1447	0	1590	20	4	12	
	297	5527	1519	0.2 <sup>and</sup>	1620	20	4	12	Time break delay 0.2 Sec.
	298	5621	1551	2	1630	20	4	12	<del>after</del> Shot point 5594 → 2.0 Sec.
	299	5715	1623	2	1650	20	4	12	
	300	5808	1655	2	1675	20	4	12	
	301	5901	1727	2.3	1680	"	"	"	DEAD → 3.0 @ # 5918
	302	5995	1759	3	1600	"	"	"	
	303	6090	1832	3	1590	"	"	"	
	304	6184	1904	3	1675	"	"	"	
	305	6279	1936	3	1820	"	"	"	
	306	6374	2009	3	1850	"	"	"	
	307	6468	2041	3	1900	"	"	"	
	308	6562	2113	3.74	1920	"	"	"	DILUTY → 4.0 @ # 6580
	309	6656	2145	4	1930	"	"	"	
	310	6749	2217	4	1930	"	"	"	
	311	6856	2254	4	1920	"	"	"	MISSED LOTS OF SHOTS
	<del>312</del>	<del>6950</del>	<del>2326</del>	<del>4</del>	<del>1940</del>	<del>"</del>	<del>"</del>	<del>"</del>	
	312	6973	2334	4	1960	"	"	"	MISSED LOTS OF SHOTS
Aug 8	313	7066	0005	4	2000	"	"	"	A/C TO 170° AT 0000

Line: 70

R E C O R D I N G      L O G  
M C S

CHINA MARGIN

BPI: 900

12

[illegible]

DFS IV  
Format: SEEB  
BPI: 800

VEMT  
 R/V-ROBERT D. CONRAD  
 Cruise: V3614  
 Line: 72

# RECORDING LOG MCS

CHINA MARGIN

DFS IV  
 Format: SEG B  
 BPI: 800

Date	Tape #	Shot Point #	Time GMT	Trip Delay SEC	Depth fms	Pop Rate SEC	Samp. Rate IN/SEC	Rec. L. SEC	Comments
8/8/80	342	1	1838	4	2080	20	4	12	START LINE 72
	343	95	1910	4	2080	"	"	"	
	344	189	1942	4	2080	"	"	4	200g Reduce speed A/S → 150 rpm
	345	276	2012	4	2070	"	"	"	
	346	370	2044	4	2070	"	"	"	
	347	464	2116	4	2060	"	"	"	
	348	558	2148	4	2060	"	"	"	
	349	652	2220	4	2060	"	"	"	
	350	745	2252	4	2050	"	"	"	
	351	838	2324	4	2045	"	"	"	
	352	931	2356	4	2020	"	"	4	START SP 962 LAST SHOT SP 940 COMPRESSORS DOWN
9	353	947	0036	4	2010	4	"	4	MISSED 3 SHOTS
AUG.	354	1144	0110	"	2000	4	"	"	
80	355	1238	0142	"	1980	4	"	"	
	356	1343	0217	"	1960	"	"	4	MISSED 12 SHOTS
	357	1438	0249	"	1940	"	"	"	
	358	1531	0321	4	1930	"	"	"	A.C. 335° — 0300
	359	1625	0353	"	1920	"	"	"	SB 230 @ 0324 SP. 1541
	360	1719	0425	"	1960	"	"	"	
	361	1812	0457	"	1940	"	"	"	0500 A/C TO 325

R/V ~~ROBERT D. CONRAD~~ VEMA

Cruise: V3614

Line: 72

## RECORDING LOG

MCS

CHINA MARGIN

DFS IV

Format: SEL B

BPI: P00

Date	Tape #	Shot Point #	Time GMT	Trip Delay SEC	Depth FMS	Pop Rate SEC	Samp. Rate MSEL	Rec. L. SEL	Comments
9	362	1905	<del>0529</del>	4	1925	20	4	12	0500 A/c to 325°
AUG	363	1999	0601	"	1900	"	"	"	
80	364	2091	0633	"	1875	"	"	"	
	365	2185	0705	"	1850	"	"	"	
	366	2235	0723	"	1830	"	"	"	lost 433 shots
	367	2340	0758	"	1800	"	"	"	lost 6 shots
	368	2441	0832	"	1800	"	"	"	Speed - 4.99 last 4 hrs.
	369	2533	0904	"	1630	"	"	"	lost 1 shot
25	370	2627	0936	"	1600	"	"	"	
	<del>371</del>	2652	0945	"		"	"	"	guns off AC 315° @ 1018
	370 cont'd	2804	1036	0	1075	"	"	"	guns on DELAY 0 AT 2804
	371	2871	1100	"	1200	"	"	"	tape ID. not incremented since 359
	372	2962	1131	"	1250	"	"	"	missed one shot
	373	3054	1202	"	1240	"	"	"	SB 232 @ 1200 (ON); Speed 5.1 knots
	374	3145	1233	"	1160	"	"	"	
	375	3237	1305	"	1060	"	"	"	
	376	3329	1336	"	950	"	"	"	
	377	3422	1408	"	850	"	"	"	
	378	3514	1439	"	760	"	"	"	
	379	3607	1511	"	815	"	"	"	Sonobuoy # 233 on 1513 Z

R/V ROBERT D. CONRAD VEMA

Cruise: 36-14

Line: 72

RECORDING LOG  
MCS

CHINA MARGIN

DFS IV

Format: SEQ B

BPI: 800

Date	Tape #	Shot Point #	Time	Trip Delay sec	Depth fms	Pop Rate sec	Samp. Rate m sec	Rec. L. sec	Comments
9 Aug 1980	380	3699	1543	0	760	20	4	12	
		<del>3801</del>	<del>1617</del>						missed 18 shots TPK-2 faulting
	381	3821	1624	0	650	20	4	12	
	382	3914	1656	0	620	"	"	"	missed 1 shot
	383	4009	1728	0	580		"	"	
	384	41083	1808	"	570560		"	"	
	385	4197	1832	"	570520		"	"	
	386	4289	1904	"	570510	"	"	"	
	387	4382	1936	"	545470	"	"	"	
	388	4475	2008	"	340	"	"	"	
	389	4568	2040	"	360	"	"	"	
	390	4661	2112	"	480	"	"	"	
	391	4759	2145	"	520	"	"	"	missed 4 shots
	392	4850	2217	"	510	"	"	"	
	393	4942	2248	"	300	"	"	"	
	394	<del>495036</del>	2321	"	250	"	"	"	
	395	5130	2352	"	200	"	"	"	
10	396	5221	0024	"	150	"	"	"	
AUG.	397	5313	0055	"	230	"	"	"	
80	398	5404	0127	"	228	"	"	"	



R/V ~~ROBERT D. CONRAD~~ VEMA

Cruise: V3614

Line: 72

## RECORDING LOG

MCS

CHINA MARLIN

DFS IV

Format: SECB

BPI: P00

17

Date	Tape #	Shot Point #	Time GMT	Trip Delay SEC	Depth FMS	Pop Rate SEC	Samp. Rate MSEC	Rec. L. SEC	Comments
10	399	5497	0158	0	200	20	4	12	
AUG	400	5589	0229	0	190	21	11	11	
80	401	5682	0301	0	180	11	11	11	
	402	5774	0331	0	180	11	11	11	COMPRESSION OFF SP5832 - 0353
	403	5888	0415	0	170	11	11	11	COMPRESSION ON SP5863 - 0403
	404	5988	0446	0	170	11	11	11	
	405	6081	0517	0	170	11	11	11	
	406	6173	0548	0	165	11	11	11	
	407	6265	0620	0	167	11	11	11	
	408	6357	0652	0	167	11	11	11	
	409	6450	0723	0	167	11	11	11	Speed 5.2
	410	6541	0754	0	168	11	11	11	
	411	6633	0826	0	210	11	11	11	
			0839						A/C → 335
			0850						ON COURSE
			0842						SB 242 → 0845
	412	6724	0857	0	200	11	11	11	
	413	6817	0930	11	200	11	11	11	
	414	6908	1000	0	200	11	11	11	missed one shot
	415	7001	1032	0	150				

R/V ROBERT D. COMPTON Vema

Cruise: V3614

Line: 72

## RECORDING LOG

MCS

CHINA MARGIN

DFS IV

Format: SEC. B

BPI: 800

Date GMT	Tape #	Shot Point #	Time GMT	Trip Delay SEC	Depth FMS	Pop Rate SEC	Samp. Rate MSEC	Rec. L. SEC	Comments
10 Aug 1980	416	7092	1103	0	150	20	4	12	
	417	7185	1135	"	150	"	"	"	A/L → <sup>355</sup> @ 1200
	418	7277	1207	"	150	"	"	"	SR 243 on @ 1218
	419	7369	1238	"	90	"	"	"	
	420	7461	1309	"	75	"	"	"	
	421	7554	1341	"	77	"	"	"	
	422	7646	1412	"	65	"	"	"	
	423	7739	1444	"	50	"	"	"	SR # 244 on 1445
	424	7831	1516	"	50	"	"	"	
	425	7924	1517	"	48	"	"	"	
	426	8017	1619	"	47	"	"	"	
	427	8110	1651	"	47	"	"	"	
	428	8222	1739	"	46	"	"	"	missed 18 shots
	429	8315	1801	"	46	"	"	"	
	430	8408	1833	"	40	"	"	"	
	431	8501	1905	"	35	"	"	"	
	432	8594	1937	"	32	"	"	"	
	433	8679	2006	"	26	"	"	"	
	434	8771	2037	"	25	"	"	"	SR # 245 on
	435	8864	2109	"	25	"	"	"	

VEMA  
R/V ROBERT D. CONRAD  
Cruise: V3614  
Line: 72

R E C O R D I N G      L O G  
M C S

CHINA MARGIN

DFS IV  
Format: *SE6 B*  
BPI: *fov*

[illegible]

R/V ROBERT D. CONRAD

Cruise: VEMA 3614

Line: 73

## RECORDING LOG

MCS

CHINA MARGIN

DFS IV

Format: SEL B

BPI: 200

Date	Tape #	Shot Point #	Time GMT	Trip Delay SEC	Depth FMS	Pop Rate SEC	Samp. Rate 1/4 SEC	Rec. L. SEC	Comments
10	437	0001	2300	0	20	20	4	12	Line # never incremented 225°
AUG	438	0093	2332	0	"	"	4	4	to 73.
PO	439	0185	0003	"	"	"	4	4	
11	440	0278	0035	"	20	"	"	"	
AUG	441	0370	0106	"	"	"	"	"	
PO	442	0461	0136	"	2	"	2	"	
	443	0553	0209	"	7	7	4	7	
	444	0645	0240	"	32	"	"	4	
	445	0738?	0317	"	"	"	"	-	AC 230° @ 0330 MISSED MANY SHOTS —
	446	0845	0349	"	"	7	7	-	
	447	0937	0400	"	40	"	"	"	S.B-247 0416
	448	1030	0452	"	"	"	"	"	
	449	1122	0523	"	43	"	"	"	
	450	1226	0559	"	44	"	"	"	
	451	1318	0630	"	49	"	"	"	
	452	1410	0702	"	49				
	453	1501	0733	"	45	"	"	"	
			0800						A/C 215° speed → 5.2
	454	1593	0804	"	45	"	"	"	
	455	1684	0836	"	46	"	"	"	

BPI: 800

[illegible]

R/V ROBERT D. CONRAD VLM/A

Cruise: V 3614

Line: 74

## RECORDING LOG

MCS

CHINA MARGIN

6.2  
DFS IV

Format: SECB

BPI: 800

Date	Tape #	Shot Point #	Time (GMT)	Trip Delay Sec	Depth fms	Pop Rate Sec	Samp. Rate m/s	Rec. L. Sec	Comments
7/11/80	467	0001	1530	0	50	20	4	12	Course 066° @ 1523
	<del>468</del> 468	0093	1601	"	50	"	"	"	Start Line 74 @ 1530 @ 1630 A/C → 03
	469	185	1633	"	50	"	"	"	
	470	277	1704	"	50	"	"	"	
	471	369	1736	"	50	"	"	"	
	472	462	1807	"	50	"	"	"	@ 1830 A/C → 066°
	473	554	1839	"	60	"	"	"	
	474	647	1911	"	62	"	"	"	
	475	739	1942	"	"	"	"	"	
	476	832	2014	"	"	"	"	"	
	477	924	2046	"	"	"	"	"	
	478	1017	2117	"	"	"	"	"	
	479	1110	2149	"	"	"	"	"	
	480	1202	2221	"	"	"	"	"	
	481	1294	2252	"	"	"	"	"	
	482	1386	2324	"	"	"	"	"	
	483	1478	2355	"	"	"	"	"	AE 072° SP 1505
12	484	1570	0026	"	"	"	"	"	
AUG	485	1662	0059	"	"	"	"	"	
80	486	1754	0130	"	253	"	"	"	

R/V ROBERT D. CONRAD

Cruise: VEMA 3614

Line: 74

## RECORDING LOG

MCS

CHINA MARGIN

DFS IV

Format: SEL-B

BPI: 800

23

Date	Tape #	Shot Point #	Time GMT	Trip Delay SEC	Depth FMS	Pop Rate SEC	Samp. Rate MSEC.	Rec. L. SEC.	Comments
12	487	1846	0201	0	52	20	4	12	
Aug	488	1938	0233	"	"	"	"	"	
80	489	2029	0305	"	"	"	"	"	
	490	2121	0335	"	"	"	"	"	
	491	2212	0406	"	"	"	"	"	
	492	2304	0438	"	54	"	"	"	
	493	2396	0509	"	54	"	"	"	
	494	2488	0540	"	11	"	"	"	
	495	2580	0612	"	"	"	"	"	
	496	2672	0643	"	11	"	"	"	
	497	2763	0714	"	44	"	"	"	
	498	2855	0746	"	43	"	"	"	
	499	2946	0818	"	50	"	"	"	
	500	3039	0849	"	45	"	"	"	
	501	3131	0920	"	45	"	"	"	
	502	3223	0952	"	45	"	"	"	
	503	3315	1023	"	45	"	"	"	
	504	3408	1054	"	45	"	"	"	
		3458	1114		45	16.0			Reset shot interval to 16.0 sec
	505	3449	1125	"	45	"	"	"	missed one shot

R/V ROBERT D. CONRAD VEMA

Cruise: VEMA 3614

Line: 74

## RECORDING LOG

MCS

CHINA MARGIN

DFS IV

Format: SEGB

BPI: 800

Date	Tape #	Shot Point #	Time GMT	Trip Delay SEC	Depth FMS	Pop Rate SEC	Samp. Rate MSEC	Rec. L. SEC	Comments
8/12/80	506	3591	1150	0	45	16	4	12	
		3612	1156	"	45	18	"	"	Pop rate ↓ <del>18/sec</del> 18 sec
	507	3683	1218	"	45	"	"	"	missed one shot
	508	3775	1246	"	45	"	"	"	
	509	3867	1314	"	40	"	"	"	SHOT RATE @ 20
	510	3961	1343	"	36	"	"	"	SPEED OVER GROUND 5.08
	511	4053	1412	"	35	"	"	"	
	512	4146	1444	"	30	20	"	"	
	513	4238	1515	"	30	"	"	"	
	514	4331	1547	"	30	"	"	"	
	515	4426	1619	"	28	"	"	"	missed 3 shots c/o 080°
	516	4519	1651	"	28				
	<del>517</del>	<del>4612</del>	<del>1723</del>						missed upward number of shots
	517	4618	1725	"	28	"	"	"	
	518	4711	1757	"	23	"	"	"	
	519	4804	1829	"	24	"	"	"	
	520	4897	1901	"	24	"	"	"	
	521	4989	1932	"	26	"	"	"	
	522	5082	2004	"	26	"	"	"	
	523	5174	2035	"	26	"	"	"	

5094

5206

5207



Line: 74

CHINA MARGIN

BPI: 800

25

[illegible]

R/V ~~ROBERT D. CONRAD~~  
Cruise: VEMA 3614  
Line: 75

# RECORDING LOG MCS

CHINA MARLIN

26  
DFS IV  
Format: SEC p  
BPI: 200

Date	Tape #	Shot Point #	Time GMT	Trip Delay SEC	Depth FMS	Pop Rate SEC	Samp. Rate MSEC	Rec. L. SEC	Comments
13	532	0001	0233	20	60	0	4	12	
AUG.	533	0093	0304	"	"	"	"	"	
80	534	0185	0335	"	"	"	"	"	
	535	0218	0407						
	536	0370	0438	"	523	"	"	"	
	537	0462	0516	"	763	"	"	"	
	538	0554	0541	"	760	"	"	"	
			<del>0557</del>						
	539	0646	0613	"	555	"	"	"	
	540	0737	0644	"	500	"	"	"	
	541	0843	0720	"	510	"	"	"	
	542	0935	0752	"	710	"	"	"	A/C → 190 MISSED SHOTS
	543	1027	0823	"	730	"	"	"	
	544	1124	0856	"	730	"	"	"	
	545	1216	0928	"	1090	"	"	"	0949 A/C - 158°
	546	1307	0959	"	1220	"	"	"	
	547	1399	1031	"		"	"	"	# 1054 *258
	548	1491	1102	"	<del>1380</del> 1450	20/14	"	"	1498 change pop rate to 19.05
	549	1583	1132	"	1410	19.0	"	"	
	550	1674	1202	"	1440		"	"	

Line: 75

## M C S

## CHINA MARGIN

Format: SEG B

BPI: 800

[illegible]

VEMA

R/V ROBERT D. CONRAD

Cruise: V3614

Line: 76

## RECORDING LOG

MCS

CHINA MARON

28

DFS IV

Format: SEC B

BPI: 800

Date	Tape #	Shot Point #	Time GMT	Trip Delay SEC	Depth fms	Pop Rate %	Samp. Rate MSEC	Rec. L. SEC	Comments
5/13/80	564	1	1905	2	1440	19	4	12	
	565	94	1935	"	1440	"	"	"	
	566	187	2005	"	1430	"	"	"	
	567	280	2036	"	1420	"	"	"	
	568	372	2106	"	1400	"	"	"	
	569	465	2136	"	1410	"	"	"	
	570	556	2205	"	1410	"	"	"	
	571	648	2235	"	1412	"	"	"	
	572	739	2305	"	1414	"	"	"	
	573	836	2335	"	1412	"	"	"	A/c → 255 @ 2330 / 25 shots on other tape
5/14/80	574	947	0012	"	1414	"	"	"	Speed Last 4 hrs = 4.5
	575	1040	0040	"	1413	"	"	"	SSB NO. 254 at 0043
	576	1138	0115	"	1414	"	"	"	missed 5 shots
	577	1230	0145	"	1414	"	"	"	
	578	1322	0215	"	1416	"	"	"	
	579	1414	0245	"	1412	"	"	"	
	580	1512	0317	"	1300	"	"	"	Missed 6 shots / 12 shots on other tape
	581	1632	0352	"	1246	"	"	"	missed 9 shots
	582	1724	0425	"	1275	"	"	"	1245- 2450 A/c
	583	1816	0455	"	1250	"	"	"	

VEMA

R/V ROBERT D. CONRAD

Cruise: V3614

Line: 76

## RECORDING LOG

MCS

CHINA MARGIN

DFS IV

Format: SEAB

BPI: 800

29

Date	Tape #	Shot Point #	Time GMT	Trip Delay SEC	Depth FMS	Pop Rate SEC	Samp. Rate MSEC	Rec. L SEC	Comments
Aug	584	1909	0526	2	1200	19	4	12	1245 A/C 245°
14	585	2002	0556	"	1125	"	"	"	
1980	586	2095	0626	"	1060	"	"	"	
	587	2189	0657	1/SEC					DELAY Δ to 1/SEC AT 0657
	588	2280	0726	"	1060	"	"	"	
	589	2372	0756	"	1038	"	"	"	
	590	2464	0826	"	1056	"	"		
	591	2555	0856	"	1051	"	"	"	
	592	2647	0926	"	968	"	"	"	
	593	2739	0956	"	1000	"	"	"	
	594	2832	1026	"	1100	"	"	"	
	595	2924	1056	"	1200	"	"	"	
	596	3016	1126	"	1000	"	"	"	
	597	3108	1156	"	1000	"	"	"	
	598	3200	1226	"	1000	"	"	"	
	599	3292	1256	"	1000	"	"	"	
	600	3385	1326	"	800	"	"	"	
	601	3477	1356	"	800	"	"	"	
	602	3570	1426	0	650	"	"	"	DELAY 0 at 1426
	603	3662	1456	0	505				

Line: 76

## RECORDING LOG

M C S

CHINA MARGIN

DFS IV

Format: SEC B

BPI: 800

30

Date	Tape #	Shot Point #	Time GMT	Trip Delay SEC	Depth FMS	Pop Rate SEC	Samp. Rate 1/4 SEC	Rec. L. SEC	Comments
14	604	3755	1526	0	590	19	4	12	
AUG	605	3847	1556	0	600	19	4	12	
80	606	3940	1627	"	580	"	"	"	
	607	4032	1657	"	540	"	"	"	
	<del>608</del>	<del>4125</del>	<del>1727</del>						missed 13 SHOTS
	608	4139	1731	"	480	"	"	"	
	609	4232	1802	"	460	"	"	"	
	610	4324	1832	"	450	"	"	"	
	611	4417	1902	"	450	"	"	"	
	612	4510	1932	"	500	"	"	"	1956 A/C → 245°
	613	4603	2002	"	500	"	"	"	
	614	4695	2032	"	520	"	"	"	
	615	4788	2102	"	550	"	"	"	
	616	4880	2132	"	550	"	"	"	
	617	4973	2203	"	555	"	"	"	
	618	5067	2233	"	500	"	"	"	
	619	5159	2303	"	500	"	"	"	
	620	5250	2323	"	525	"	"	"	
15 AUG	621	5342	0003	"	540	"	"	"	
1980	622	5434	0032	"	570	"	"	"	

R/V ~~ROBERT D. CONRAD~~  
Cruise: VEHA 3614  
Line: 76

# RECORDING LOG

MCS

CHINA MARGIN

3/  
DFS IV  
Format: SEC. D  
BPI: 800

Date	Tape #	Shot Point #	Time GMT	Trip Delay SEC	Depth FMS	Pop Rate SEC	Samp. Rate MSEC	Rec. L. SEC	Comments
15	623	5526	0103	0	580	19	4	12	
AUG	624	5616	0132	"	610	"	"	"	
80	625	5702	0202	"	620	"	"	"	
	626	5800	0232	"	750	"	"	"	
	627	5892	0302	"	800	"	"	"	
	628	5983	0331	"	840	"	"	"	
	629	6025	0401	"	930	"	"	"	
	630	6166	0431	"	926	"	"	"	
		6254	0500	"					6000 off for oil change 6254
	631	6293	0512	"	896	"	"	"	SP. 258 = 0513Z
	632	6385	0542	"	862	"	"	"	43=42 Missed 6 shots
	633	6485	0614	"	868	"	"	"	
	634	6575	0644	"	935	"	"	"	
	635	6669	0715	"	935	"	"	"	
	636	6761	0745	"	935	"	"	"	Increase 145@rpm
	637	6853	0814	"	930	"	"	"	
	638	6951	0847	"	930	"	"	"	
	639	7044	0916	"	1030	"	"	"	
	640	7136	0947	"	1070	"	"	"	
	641	7228	1017	"	1120	"	"	"	

# RECORDING LOG

## MCS

R/V ROBERT D. CONRAD VEMA

Cruise: V3614

Line: 76

CHINK MARGIN

32

DFS IV

Format: SEAB

BPI: 800

Date	Tape #	Shot Point #	Time GMT	Trip Delay Sec	Depth fms	Pop Rate Sec	Samp. Rate mSec	Rec. L. Sec	Comments
15 Aug 1980	642	7326	1049	0	1200	19	124	12	tape ID on 641 - missed 6 shots
	643	7418	1119	0	1225	11	"	"	
	644	7510	1149	0	1235	18	"	"	Change pop rate to 18.0 seconds
	645	7602	1217	0	1225	"	"	"	
	646	7694	1245	0	1220	"	"	"	S.D. 259 on 1303
	647	7786	1314	0	1220	"	"	"	
	648	7878	1342	0	1170	"	"	"	
	649	7971	1410	0	1100	"	"	"	
	650	8063	1439	0	1010	"	"	11	
	651	8155	1507	0	930	"	"	"	
	652	8247	1536	0	900	"	"	"	
	653	8340	1605	0	840	"	"	"	
	654	8432	1633	0	820	"	"	"	
	655	8525	1702	0	820	"	"	"	
	656	8617	1730	0	780	"	"	"	
	657	8711	1759	0	780	"	"	"	
	658	8812	1830	0	750	"	"	"	
	659	8905	1859	"	740	"	"	"	
	660	8997	1927	"	740	"	"	"	
	661	9090	1956	"	810	"	"	"	

662

482

224



VEMA  
R/V ROBERT D. CONRAD  
Cruise: V3614  
Line: 76

# RECORDING LOG

MCS  
CHINA MARLIN

33  
DFS IV  
Format: SEG 5  
BPI: 800

Date	Tape #	Shot Point #	Time GMT	Trip Delay SEC	Depth Fms	Pop Rate SEC	Samp. Rate mSec	Rec. L. SEC	Comments
8/15/80	662	9182	2024	0	710	18	4	12	
	663	9275	2053	0	710	18	4	12	
	664	9367	2121	0	700	18	4	12	
	665	9465	2152	0	700	18	4	12	missed 4 shots
	666	9556	2220	0	694	18	4	12	
	667	9648	2241	0	699	18	4	12	
	668	9740	2317	0	720	18	4	12	
	669	9847	2348	0	750	18	4	12	
16	670	9924	0014	0	798	18	4	12	
AVG	671	10018	0043	0	800	18	4	12	
80	672	10111	0111	0	790	18	4	12	
	673	10203	0140	0	790	18	4	12	
	674	10295	0208	0	750	18	4	12	
	675	10387	—	0	750	18	4	12	
	676	10479	0305	0	740	18	4	12	
	677	10574	0334	0	777	18	4	12	missed 2 shots
	678	10666	0403	0	770	18	4	12	missed 1 shot
	679	10758	0431	0	763	18	4	12	
	680	10851	0500	0	620	18	4	12	
	681	10943	0528	0	610	18	4	12	

R/V ROBERT D. CONRAD  
Cruise: VEMA 3614  
Line: 76

RECORDING LOG  
MCS  
CHINA MARGIN

DFS IV <sup>34</sup>  
Format: SEGB  
BPI: 800

Date	Tape #	Shot Point #	Time GMT	Trip Delay SEC	Depth FMS	Pop Rate SEC	Samp. Rate MSEC	Rec. L. SEC	Comments
8/16/80	682	11035	0556	0	600	18	4	12	Sonoboo 0634 - 241
	683	11126	0625	0	600	18	4	12	
	684	11217	0653	0	600	18	4	12	
	685	11310	0721	0	600	18	4	12	
	686	11403	0749	0	600	18	4	12	
	687	11494	0818	0	600	18	4	12	
	688	11586	0846	0	600	18	4	12	
	689	11679	0915	0	600	18	4	12	
	690	11771	0944	0	550	18	4	12	
	691	11863	1012	0	540	"	"	"	
	692	11955	1041	"	590	"	"	"	
	693	12048	1109	"	610	"	"	"	
	694	12139	1137	"	730	"	"	"	
	695	12231	1207	"	750	"	"	"	End after 12-13 shots
	696	12244	1210	"	750	"	"	"	tape ID. reads 695
	697	12336	1238	"	860	"	"	"	
	698	12427	1307	"	900	"	"	"	
	699	12520	1335	"	1050	"	"	"	
	700	12612	1403	"	960	"	"	"	
	701	12705	1432	"	880	"	"	"	missed 1 shot

R/V ROBERT D. CONRAD VEMA

RECORDING LOG  
MCS

Cruise:

Line:

36-14  
76

CHINA MARGIN

DFS IV

Format: SEG B

BPI: 800

Date	Tape #	Shot Point #	Time GMT	Trip Delay Sec	Depth FMS	Pop Rate SEC	Samp. Rate MSEC	Rec. L. SEC	Comments
8/16/80	702	12796	1500	0	870	18	4	12	
	703	12889	1529	0	900	"	"	"	
	704	12981	1557	0	930	"	"	"	
	705	13074	1626	0	940	0	0	"	
	706	13166	1654	0	950	"	"	"	
	707	13259	1723	0	1030	"	"	"	
	708	13351	1752	0	960	"	"	"	
	709	13446	1821	0	950	"	"	"	
	710	13538	1849	0	965	"	"	"	
	711	13631	1918	0	1010	"	"	"	
	712	13724	1947	0	1050	"	"	"	
	713	13817	2015	0	1050	"	"	"	
	714	13908	2043	0	1020	"	"	"	
	715	14001	2112	0	1020	18	4	12	
	716	14093	2141	0	1060	"	"	"	
	717	14185	2209	0	1090	"	"	"	
	718	14276	2237	0	1100	"	"	"	
	719	14362	2306	0	1100	"	"	"	
	720	14454	2334	0	1150	"	"	"	
	721	14552	0002	0	1230	"	"	"	

Line: 76

M C S

CHINA MARCH

BPI: 700

34

[illegible]

R/V ~~ROBERT D. CONRAD~~  
Cruise: VEMA 3614  
Line: 77

RECORDING LOG  
MCS

CHINA MARGIN

DFS IV 37  
Format: SEAP  
BPI: 900

Date	Tape #	Shot Point #	Time GMT	Trip Delay SEC	Depth FMS	Pop Rate SEC	Samp. Rate MSEC	Rec. L. SEC	Comments
18 Aug 1980	726	001	1237	0	1300	19	4	12	Begin Line
	727	93	1307	"	1300	"	"	"	
	728	185	1337	"	1300	"	"	"	
	729	278	1408	"	1250	"	"	"	
	730	370	1437	"	1250	"	"	"	
	731	462	1507	"	1220	"	"	"	
	732	553	1537	"	1160	"	"	"	
	733	646	1607	"	1080	"	"	"	
	734	739	1637	"	1010	"	"	"	
	735	832	1707	"	880	"	"	"	
	736	926	1738	"	780	"	"	"	
	737	1020	1809	"	500	"	"	"	
	738	1113	1839	"	410	"	"	"	
	739	1207	1910	"	360	"	"	"	
	740	1300	1940	"	300	"	"	"	
	741	1394	2010	"	250	"	"	"	
	742	1499	2044	"	230	"	"	"	missing SHOTS / NOT RECORDED
	743	1524	2053	"	220	"	"	"	
	744	1615	2122	"	200	"	"	"	
	745	1708	2153	"	177	"	"	"	

R/V ROBERT D. CONRAD  
Cruise: VEMA 3614  
Line: 77

RECORDING LOG  
MCS  
CHINA MARGIN

38  
DFS IV  
Format: SEC-B  
BPI: 806

Date	Tape #	Shot Point #	Time GMT	Trip Delay SEC	Depth FMS	Pop Rate SEC	Samp. Rate MSEC	Rec. L. SEC	Comments
18	746	1800X	2222	0	170	19	4	12	
AUG	747	1892	2252	0	160	19	4	12	
PO	748	1985	2323	0	150	19	4	12	
		2061?							<del>SAMP POWER FAILURE</del>
19	749	2062	0006	0	145	19	4	12	<del>ON AGAIN NO. 262 - SB</del>
AUG	750	2155	0036	0	140	19	4	12	
PO	751	2248	0107	0	135	19	4	12	
	752	2341	0137	0	135	19	4	12	
	753	2434	0207	0	135	19	4	12	
			0230						A/C = 035
	754	2526	0237	0	135	19	4	12	
	755	2619	0307	0	125	19	4	12	
	756	2711	0337	0	105	19	4	12	
	757	2804	0407	0	100	19	4	12	
	758	2896	0437	0	99	15	4	12	
	759	2993	0509	0	97	19	4	12	missed 5 shots
	760	3084	0538	0	95	19	4	12	
			0600						A/C 040°
	761	3176	0608	0	95	19	4	12	
	762	3268	0638	0	94	19	4	12	missed 1 shot

R/V ROBERT D. CONRAD *Vema*Cruise: *V3614*Line: *77*RECORDING LOG  
MCS*China Margin*

DFS IV

Format: *Seg B*

BPI: 800

(39)

Date	Tape #	Shot Point #	Time GMT	Trip Delay Sec	Depth FMS	Pop Rate Sec	Samp. Rate mSec	Rec. L. Sec	Comments
<i>8/19/80</i>	<i>763</i>	<i>3361</i>	<i>0709</i>	<i>0</i>	<i>92</i>	<i>19</i>	<i>4</i>	<i>12</i>	<i>Oh my God!</i>
	<i>764</i>	<i>3453</i>	<i>0738</i>	<i>0</i>	<i>90</i>	<i>19</i>	<i>4</i>	<i>12</i>	
	<i>765</i>	<i>3547</i>	<i>0809</i>	<i>0</i>	<i>90</i>	<i>19</i>	<i>4</i>	<i>12</i>	
	<i>766</i>	<i>3639</i>	<i>0839</i>	<i>0</i>	<i>90</i>	<i>19</i>	<i>4</i>	<i>12</i>	
	<i>767</i>	<i>3731</i>	<i>0909</i>	<i>0</i>	<i>90</i>	<i>19</i>	<i>4</i>	<i>12</i>	<i>S.B. 263-@0922</i>
	<i>768</i>	<i>3822</i>	<i>0939</i>	<i>0</i>	<i>87</i>	<i>19</i>	<i>4</i>	<i>12</i>	
	<i>769</i>	<i>3916</i>	<i>1010</i>	<i>0</i>	<i>80</i>	<i>19</i>	<i>4</i>	<i>12</i>	<i>Missed 2 shots</i>
	<i>770</i>	<i>4008</i>	<i>1040</i>		<i>80</i>				
	<i>771</i>	<i>4100</i>	<i>1109</i>	<i>0</i>	<i>75</i>	<i>"</i>	<i>"</i>	<i>"</i>	
	<i>772</i>	<i>4192</i>	<i>1139</i>	<i>"</i>	<i>75</i>	<i>"</i>	<i>"</i>	<i>"</i>	
	<i>773</i>	<i>4286</i>	<i>1210</i>	<i>"</i>	<i>75</i>	<i>"</i>	<i>"</i>	<i>"</i>	
	<i>774</i>	<i>4379</i>	<i>1240</i>	<i>"</i>	<i>75</i>	<i>"</i>	<i>"</i>	<i>"</i>	<i>missed one shot.</i>
	<i>775</i>	<i>4471</i>	<i>1310</i>	<i>"</i>	<i>75</i>	<i>"</i>	<i>"</i>	<i>"</i>	
	<i>776</i>	<i>4564</i>	<i>1340</i>	<i>"</i>	<i>70</i>	<i>"</i>	<i>"</i>	<i>"</i>	<i>A/C 035 @ 1402 Z</i>
	<i>777</i>	<i>4658</i>	<i>1411</i>	<i>"</i>	<i>70</i>	<i>"</i>	<i>"</i>	<i>"</i>	
	<i>778</i>	<i>4750</i>	<i>1441</i>	<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	
	<i>779</i>	<i>4844</i>	<i>1511</i>	<i>"</i>	<i>60</i>	<i>"</i>	<i>"</i>	<i>"</i>	<i>missed one shot</i>
	<i>780</i>	<i>4936</i>	<i>1541</i>	<i>"</i>	<i>60</i>	<i>"</i>	<i>"</i>	<i>"</i>	
	<i>781</i>	<i>5029</i>	<i>1611</i>	<i>"</i>	<i>60</i>	<i>"</i>	<i>"</i>	<i>"</i>	<i>MISSING SHOTS TPX-2 NOT RECORDED</i>
	<i>782</i>	<i>5087</i>	<i>1631</i>	<i>"</i>	<i>60</i>	<i>"</i>	<i>"</i>	<i>"</i>	

R/V-ROBERT D. CONRAD VEMA

Cruise: V36-14

Line: 77

RECORDING LOG  
MCS

China Maren

DFS IV

Format:

BPI:

40

SEC B

800

Date	Tape #	Shot Point #	Time GMT	Trip Delay SEC	Depth FMS	Pop Rate SEC	Samp. Rate <del>MIN</del> SEC	Rec. L. SEC	Comments
8/19/80	783	5181	1701	0	52	19	24	12	
	784	5214	1731	0	"	19	"	"	
	785	5368	1802	0	48	19	"	"	
	786	5461	1832	0	"	19	"	"	
	787	5555	1903	0	"	19	"	"	
	788	5649 <sup>2</sup>	1933	0	44	19	"	"	
	789	5749	2004	0	44	19	"	"	
	790	5836	2034	0	44	19	"	"	
	791	5929	2104	0	40	"	"	"	
	792	6021	2134	0	40	"	"	"	
	793	6114	2204	0	40	"	"	"	
	794	6206	2235	0	40	"	"	"	
	795	<del>6292</del> <sup>6306</sup>	<del>2307</del> <sup>2307</sup>	0	40	"	"	"	SHOTS MISSED
	796	6398	2327	0	40	"	"	"	AC 024° - 0730
20	797	6490	0007	0	40	"	"	"	
AUG	798	6582	0037	0	46	"	"	"	
80	799	6674	0107	0	46	"	"	"	
	800	6766	0137	0	46	"	"	"	
	801	6858	0207	0	46	"	"	"	
	802	6950?	0238?	0	46	"	"	"	MISSED SHOTS



R/V ROBERT D. CONRAD

Cruise: VEMA 3614

Line: 77

## RECORDING LOG

MCS

CHINA MARLIN

DFS IV

Format: SEA II

BPI: 800

Date	Tape #	Shot Point #	Time GMT	Trip Delay SEC	Depth FMS	Pop Rate SEC	Samp. Rate MSEC	Rec. L. SEC	Comments
20	803	<del>7068</del> 7065	<del>0315</del> 0314	0	43	19	4	12	MISSED SHOTS
AUG 80	804	7160	0345	0	42	19	4	12	AC-000 TO AVOID FISHING BOATS + BACK ON C 024°
	805	7255	0416	0	40	19	4	12	AC FISHING BOATS —
	806	7347	0446	0	40	19	4	12	020 is Course
	807	7440	0516	0	39	19	4	12	Tail Buoy is astern.
	808	7532	0546	0	39	19	4	12	SB 265 @ 0504
	809	7627	0617	0	40	19	4	12	
	810	7719	0647	0	40	19	4	12	
	811	7811	0717	0	40	19	4	12	
	<del>812</del>	<del>7911</del>	<del>0746</del>	0					
	812	7914	0750	0	40	19	4	12	missed 11 shots
	813	8000	0800	0	40	19	4	12	
	814	8099	0850	0	40	19	4	12	AC → 024° @ 0900
	815	8191	0920	0	40	19	4	12	
	816	8282	0950	0	40.5	19	4	12	
	817	8376	1021	"	25	"	"	"	
	818	8468	1051	"	25	"	"	"	
	819	8561	1121	"	25	"	"	"	End of line 77 @ 1124
	END	8569	1124						LS 8569

R/V ROBERT D. CONRAD VEMA.

Cruise: 3014

Line: 78

## RECORDING LOG

MCS

CHINA MARGIN

DFS IV

Format: SAGB

BPI: 800

42

Date	Tape #	Shot Point #	Time GMT	Trip Delay sec	Depth fms	Pop Rate sec	Samp. Rate msec	Rec. L. sec	Comments
20/AUG	820	001	<del>1216</del> 1240	0	26	19	7	12	START LINE 78 TPX (not lighting ready)
1980	821	93	1240	"	25	"	"	"	- last few shots may be damaged -
		<del>197</del>							missed six shots - (new and TPX 2)
	822	200	1315	"	25	"	"	"	missed seven " (end light 2nd shot)
	823	292	1344	"	25	"	"	"	
	<del>824</del>	385	1415	"	25	"	"	"	
	825	413	1424	"	27	"	"	"	2 4/5 <del>395</del> 393 TAPE ID. NOT INCREMENTED 20 shots missed end l. to TPX 2
	826	505	<del>1453</del>	"	27	"	"	"	
	827	598	1524	"	27	"	"	"	
	828	691	1554	"	25	"	"	"	
	829	783	1624	"	25	"	"	"	
	830	877	1655	"	25	"	"	"	
	831	969	1725	"	27	"	"	"	
	832	1062	1755	"	27	"	"	"	
	833	1154	1825	"	30	"	"	"	
	834	1247	1855	"	32	"	"	"	
	835	1339	1925	"	32	"	"	"	
	836	1432	1955	"	32	"	"	"	
	837	1524	2025	"	32	"	"	"	
	838	1618	2056	"	32	"	"	"	

839

1711

2126

VEMA  
R/V ROBERT D. CONRAD  
Cruise: 13614  
Line: 78

RECORDING LOG  
MCS

CHINA MARGIN

DFS IV 43  
Format: SEGB  
BPI: 820

Date	Tape #	Shot Point #	Time GMT	Trip Delay SEC	Depth fms	Pop Rate SEC	Samp. Rate MIN	Rec. L. SEC	Comments
8/20/80	839	1711	2126	0	32	19	4	12	
	<del>840</del>	<del>1804</del>	<del>2156</del>						missed 6 <del>shots</del> Shots
	840	1810	2158	0	32	19	4	12	
	841	1902	2228	0	32	14	4	12	
	842	1946	2300	0	32	19	4	12	
	843	2088	2329	0	32	19	4	12	
21	844	2184	0000	0	32	19	4	12	
AUG	845	2276	0030	0	32	19	4	12	
80	846	2369	0100	0	32	19	4	12	
	847	2461	0130	0	32	19	4	12	
	848	2590	0217	0	32	19	4	12	MISSED A LOT OF SP
	849	2683	0243	0	32	19	4	12	" " "
	850	2775	0312	0	32	19	4	12	
	851	2868	0343	0	32	19	4	12	
	852	2961	0413	0	32	19	4	12	
	853	3055	0443	0	32	19	4	12	A/C @ 0445 to 075°
	854	3147	0513	0	32	19	4	12	A/C @ 0453 to 090°
	855	3241	0544	0	32	19	4	12	A/C @ 0500 to 075°
	856	3333	0614	0	32	19	4	12	A/C @ 0503 to 090°
	857	3448	0652	0	32	19	4	12	A/C @ 0551 to 070°

R/V ROBERT D. CONRAD  
Cruise: VEMA 3614  
Line: 78

RECORDING LOG  
MCS  
CHINA MARGIN

DFS IV  
Format: SEAR  
BPI: 200

44

Date	Tape #	Shot Point #	Time GMT	Trip Delay SEC	Depth FMS	Pop Rate SEC	Samp. Rate MSEC	Rec. L. SEC	Comments
21	858	3540	0721	0	32	19	4	12	
Aug	859	3634	0752	0	32	19	4	12	A/C 090°
80	860	3726	0822	0	32	19	4	12	0832 A/C → 055°
	861	3820	0853	0	32	19	4	12	<del>missed 1 shot</del>
	862	3912	0923	0	32	19	4	12	
	863	4013	0956	"	25	"	"	"	
	864	4106	1026	"	25	"	"	"	4198 LS missed 5 shots
	865	4204	1157	"	25	"	"	"	
	866	4297	1128	"	25	"	"	"	A/C → 080° @ 1140
	867	4387	1157	"	24	"	"	"	change pop rate to 17.0 @ SP 4448
	868	4480	1226	"	24	17	"	"	
	869	4571	1253	"	24	17	"	"	SB 267 @ 1254 Z
	<del>870</del>	<del>4665</del>	<del>1320</del>	<del>"</del>	<del>24</del>	<del>"</del>	<del>"</del>	<del>"</del>	<del>missed 1 shot</del>
	870	4682	1325	0	24	17	4	12	missed 18 shots (TPX-2 end)
	871	4775	1352	0	24	17	4	12	
	872	4867	1419	0	24	17	4	12	
	873	4960	1446	0	24	17	4	12	
	874	5065	1517	0	24	17	4	12	missed 10 shots
		5158	1544						A/C do Avoid Vessels @ 1516 → 100°
	875	↓	↓	0	24	17	4	12	missed 1 shot A/C @ 1536 → 070°

Line: 78

RECORDING LOG  
MCS

CHINA Margin

DFS IV

Format: SEG B

BPI: 872

[illegible]