

R/V ROBERT D. CONRAD

Cruise: 21-14

Line: 180

RECORDING LOG  
MCS

Norwegian SHELF

DFS IV ①

Format: Sec B

BPI: 800

Date	Tape #	Shot Point #	Time	Trip Delay	Depth	Pop Rate	Samp. Rate	Rec. L.	Comments
11 Sept 1978	8464	00001	1024	-0-	208	20	4	12000	+PX=1 Four Guns
		24	1032			"	"	"	Low Filter by-passed (DFS-IV Low)
	8465	0093	1055	-0-	210	"	"	"	Frag slope switch to out
	8466	184	1127	-0-	213	"	"	"	
	8467	275	1158	-0-	214	"	"	"	Shot #274 missed
	8468	366	1229	-0-	222	"	"	"	
			1246	-0-		"	"	"	Guns #1 & #4 off Guns #2 & #3 on
	8469	457	1300	-0-	240	"	"	"	
	8470	548	1331	-0-	247	"	"	"	
	8471	640	1402	-0-	247	"	"	"	
	8472	731	1433	-0-	306	"	"	"	
	8473	824	1505	-0-	324	"	"	"	
	8474	916	1536	-0-	353	"	"	"	
	8475	1009	1608	-0-	366	"	"	"	
	8476	1102	1640	-0-	383	"	"	"	1101 Missed
	8477	1195	1712	-0-	400	"	"	"	
	8478	1287	1743	-0-	410	"	"	"	
	8479	1380	1815	0	439	"	"	"	
	8480	1472	1846	0	460	"	"	"	
	8481	1565	1918	0	500	"	"	"	

## M C S

Line: 180

BPI: 800

## Norwegian Shells

[illegible]

R/V ROBERT D. CONRAD

Cruise: 21-14

Line: 181

RECORDING LOG  
M C S

DFS IV

Format: Seg B

BPI: 800

(3)

NORWEGIAN shelf

Date	Tape #	Shot Point #	Time	Trip Delay	Depth	Pop Rate	Samp. Rate	Rec. L.	Comments
11 SEP 1978	8483	0001	2137	-0-	523	20	4	12000	+PY=2 start line 181
	8484	092	2208	-0-	522	"	"	"	S/B # 327 ON AUF 3 at 2219
	8485	185	2240	-0-	522	"	"	"	
	8486	277	2311	-0-	522				
	"	332	2330			24.5			SPEED OVER Ground 4.0 kts change POP rate 20
	8487	369	2345	-0-	523	"	"	"	Missed shots from 374 to 380, +PY=2
	8488	381	2350	-0-	522	"	"	"	
12 SEPT 1978			0022						END SB# 327
	8489	474	0028	-0-	538	"	"	"	
	8490	565	0105	-0-	547	"	"	"	SHIP'S speed <del>is</del> varying greatly
	8491	657	0142	-0-	552	"	"	"	in rough seas FEE is coming
	8492	747	0219	-0-	560	"	"	"	close to surface
	8493	839	0257	-0-	571	"	"	"	
	8494	931	0334	-0-	573	"	"	"	SPEED over Ground 4.0 knots
	8495	1023	0412	-0-	585	"	"	"	
	8496	1114	<del>0449</del>	0	599	"	"	"	Reducing speed to try and drop
	8497	1206	<del>0449</del>	0	604	"	"	"	streamer in water SPEED TO 4KTS
	8498	1298	<del>0526</del>	0	620	"	"	"	
	8499	1390	<del>0604</del>	0	635	"	"	"	
	8500	1481	<del>0641</del>	0	645	"	"	"	

07181

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R/V ROBERT D. CONRAD

Cruise: 21-14

Line: 181

DFS IV

Format: ~~SEE~~ B

BPI: 800

NORWEGIAN SEA (SHELF)

[illegible]

Line: 182

Norwegian Shelf

BPI: 800

[illegible]

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Line: 183

BPI: 800

## Nonwelded Shelf

[illegible]

R/V ROBERT D. CONRAD

Cruise: 21-14

Line: 184

RECORDING LOG  
MCS

DFS IV

Format: Seg B

BPI: 800

⑦

Norwegian Shelf

Date	Tape #	Shot Point #	Time	Trip Delay <i>min</i>	Depth <i>fms</i>	Pop Rate <i>per sec</i>	Samp. Rate <i>W Sec</i>	Rec. L. <i>M Sec</i>	Comments
13 Sept	8519	0001	0849	1000	704	20	4	1200	HPX = 2 GUNS# 13 Firing, 24 off
	"	012	0853						GUNS# 284 ON
1978	8520	92	0920	"	720	"	"	"	
	8521	183	0951	"	726	"	"	"	
1978	8522	274	1022	"	734	"	"	"	
13 SEP	8523	366	1054	"	743	21.5	"	"	SPEED OVER Ground 4.6 kts
	8524	458	1127	"	772	"	"	"	change pop rate to 21.5
1	8525	550	1159	"	795	"	"	"	
	8526	641	1232	"	812	"	"	"	
	8527	732	1305	"	832	"	"	"	
	8528	824	1337	"	846	"	"	"	
	8529	916	1410	"	856	19.5	"	"	changed pop rate to 19.5
	8530	1007	1440	"	856	"	"	"	Speed over Ground 5.0 knots
	8531	1099	1510	"	867	"	"	"	
	8532	1191	1540	"	874	"	"	"	
	8533	1283	1610	"	886	"	"	"	Air pressure problem Guns 2+4 off
	8534	1375	1640	"	885	"	"	"	caused many ITB's instead of FTB's
	8535	1465	1709	"	910	"	"	"	
	8536	1555	1738	"	934	"	"	"	Speed over ground 5.0 knots
		1608	1756						All guns off TAPE off

R/V ROBERT D. CONRAD

Cruise: 21-14

Line: ~~21-14~~ 184

## RECORDING LOG

M C S

DFS IV

Format: Seg B

BPI: 800

Norwegian Shelf

Date	Tape #	Shot Point #	Time	Trip Delay	Depth	Pop Rate Sec	Samp. Rate mSec	Rec. L. mSec	Comments
13 SEP 1978	8537	1820	1404	1000	1088	195	4	12000	4 guns on
	8538	1911	1934	"	1104	"	"	"	Shots 1608 to 1819 Missed
	8539	2001	2003	"	1097	"	"	"	due to problems with guns
	8540	2092	2032	"	1080	"	"	"	
	8541	2183	2102	"	1062	"	"	"	S/B #328 ON AUX3 at 2120
	8542	2274	2131	"	1128	"	"	"	
	8543	2365	2201	2000	1152	20	"	"	change Delay IFB = 2000 M = 2.0 Sec
	8544	2456	2232	"	1158	"	"	"	Speed over Ground 4.7kt change per rate to 20%
	8545	2547	2303	"	1138	"	"	"	
	8546	2637	2334	"	1157	"	"	"	
	8547	2729	0005	"	1200	"	"	"	
	8548	2819	0036	"	1248	"	"	"	
	8549	2910	0107	"	1305	"	"	"	
	8550	3001	0138	"	1320	"	"	"	Speed over Ground 4.8 knots
	8551	3093	0209	"	1340	"	"	"	
	8552	3184	0240	"	1288	"	"	"	
	8553	3276	0312	"	1200	"	"	"	
	8554	3368	0343	1000	1110	"	"	"	CHANGED IFD to 1000 msec
	8555	3459	0414	"	1046	"	"	"	
	8556	3551	0446	"	1010	"	"	"	

R/V ROBERT D. CONRAD

Cruise: RC 21-14

Line: 184

RECORDING LOG  
M C S

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DFS IV

Format: SEG. B

BPI: 800

NORWEGIAN ~~SEA~~ SHELS

Date	Tape #	Shot Point #	Time	Trip Delay	Depth	Pop Rate	Samp. Rate	Rec. L.	Comments
14	8557	3642	0517	1000	1010	20.5	4	12000	
SEPT	8558	3734	0548	"	1010	"	"	12000	
78	8559	3825	0619	"	950	"	"	"	
	8560	3916	0650	"	982	"	"	"	SHOTS 8-20 MISSED
	8561	4020	07:26	"	983	"	"	"	
	8562	4111	07:57	"	983	"	"	"	
	8563	4202	0828	"	962	"	"	"	
	8564	4294	0859	"	905	"	"	"	
	8565	4385	0930	"	853	"	"	"	
	8566	4476	1001	"	783	"	"	"	
	8567	4568	1033	"	779	"	"	"	
	8568	4660	1104	"	771	"	"	"	
	8569	4751	1135	"	771	"	"	"	TPX=1
	8570	4842	1206	"	757	"	"	"	
			1229	"		"	"	"	SB#329 on Aug. 3
	8571	4933	1237	"	757	"	"	"	
	8572	5024	1308	"	736	"	"	"	
	8573	5113	1338	"	728	"	"	"	SPEED over ground 4.8 Knots
	8574	5205	1410	"	715	"	"	"	
	8575	5297	1441	"	710	"	"	"	

R/V ROBERT D. CONRAD

Cruise: 21-14

Line: 184

## RECORDING LOG

M C S

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DFS IV

Format: Seg B

BPI: 800

Norwegian SHIP

Date	Tape #	Shot Point #	Time	Trip Delay msec	Depth fms	Pop Rate sec	Samp. Rate msec	Rec. L. msec	Comments
SEP 14/8	8576	5389	1513	1000	707	20.5	4	12000	TPX-2
	8577	5480	1544	"	708	"	"	"	1611 SB 329 Ended
	8578	5573	1616	"	710	"	"	"	Missed shot 5572
14 SEP 1978	8579	5665	1647	"	715	"	"	"	
	8580	5757	1718	"	740	"	"	"	
	8581	5847	1749	"	741	"	"	"	1/5/B 330 ON AX at 1758
	8582	5938	1820	"	726	"	"	"	TAPE has wrong Line Number
	8583	6030	1852	"	726	"	"	"	(CORRECTED AT SP 5975)
	8584	6122	1923	"	729	"	"	"	
	8585	6214	1954	"	729	"	"	"	
	8586	6268	2013	"	757	"	"	"	
	8587	6359	2044	"	755	"	"	"	
	8588	6449	2115	"		"	"	"	
	8589	6540	2146	"	744	"	"	"	
	"	6614	2211						GUNS # 2 #4 OFF
	8590	6631	2217	"	746	"	"	"	
	8591	6722	2248	"	750	"	"	"	
	"	6735	2252						GUNS # 2 #4 ON
	8592	6813	2319	"	752	"	"	"	
	8593	6904	2350	"	755	"	"	"	

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DFS IV

Format: *Seq B*

BPI: 800

NORWEGIAN SHELF

[illegible]

## 12

DFS IV

Format:

BPI:

NORWEGIAN SHELL

[illegible]

## 13

DFS IV

Format: 3eq B

BPI: 800

# Nonwegian Shelf

[illegible]

## 14

DFS IV

Format: Seq B

BPI: 800

Nonwegian Shelf (Vøring Plateau)

[illegible]



Shuco

## 16

DFS IV

Format: SEG. B

BFI: 800

~~NORWEGIAN~~ ~~SEA~~ Voring Plateau

[illegible]

## 17

Cruise: 21-14

Line: 190

DFS IV

Format: *Seg B*

BPI: 800

## Voring Plateau

[illegible]

Line: 191

M C S

BPI: 800

## Voning Plaster

[illegible]

Line: 192

RECORDING LOG  
MCS

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BPI: 800

# Voning Platen

[illegible]



# RECORDING LOG MCS

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R/V ROBERT D. CONRAD

Cruise: 21-14

Line: 19A

Voring Plateau

DFS IV

Format: Seq B

BPI: 800

Date	Tape #	Shot Point #	Time	Trip Delay msec	Depth fms	Pop Rate sec	Samp. Rate msec	Rec. L. msec	Comments
17 Sept	8689	00001	1232	1000	716	<del>30.5</del>	4	12000	only GUN # 3 + 4 firing
1978	8690	92	1303	"	716	"	"	"	
		157		"		21.5	"	"	Changed pop-rate to 21.5 sec Speed over ground 4.5 knots
			1338	"		"	"	"	SB# 333A on Aux. 3 Aborted
	8691	184	1335	"	724	"	"	"	
	8692	275	1408	"	724	"	"	"	
			1412	"		"	"	"	SB# 333B on Aux. 3 aborted
	8693	366	1441	"	724	"	"	"	1457 GUN 2 firing
			1445	"		"	"	"	SB# 333 on Aux. 3
	8694	457	1513	"	722	"	"	"	
	8695	549	1546	"	718	"	"	"	
	8696	640	1619	"	713	"	"	"	
		689	1636			24.5			Pop rate changed speed 3.9 knots
	8697	732	1654	"	704	"	"	"	Shot 731 missed
	8698	823	1731	"	700	"	"	"	
	8699	914	1808	"	704	"	"	"	1913 SB 334 on Aux. 3
	8700	1006	1845	"	704	"	"	"	
	8701	1097	1923	"	708	"	"	"	
	8702	1189	2000	"		"	"	"	
	8703	1281	2038		714				

R/V ROBERT D. CONRAD

Cruise: 21-14

Line: 19A

## RECORDING LOG

M C S

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DFS IV

Format: Seq B

BPI: 800

VORING Plateau

Date	Tape #	Shot Point #	Time	Trip Delay	Depth	Pop Rate	Samp. Rate	Rec. L.	Comments
17 Sept 1978	*8704	1372	2115	1000	730	24.5	4	12000	TPX=2 * 36 SLOPE db/OCTAVE ON
	8705	1464	2152	"	734	"	"	"	
	8706	1555	2229	"	763	"	"	"	
	8707	1647	2307	"	773	"	"	"	
	8708	1738	2344	"	787	"	"	"	TPX=2
18 Sept 1978	8709	1830	0022	"	806	"	"	"	
	8710	1921	0059	"	836	"	"	"	
	8711	2013	0136	"	888	"	"	"	
	8712	2104	0213	"	928	"	"	"	
	8713	2196	0251	"	981	"	"	"	
	8714	2287	0328	"	1036	"	"	"	Speed over ground 4.0 knots
	8715	2381	0407	"	1140	"	"	"	Missed 80
	8716	2472	0443	"	1195	"	"	"	
	8717	2565	0521	"	1310	"	"	"	Missed one shot
	8718	2656	0558	"	1365	"	"	"	
	8719	2748	0636	"	1500	"	"	"	Missed one shot
	8720	2839	0714	"	1500	"	"	"	
	8721	2931	0751	"	1590	"	"	"	
	8722	3022	0828	2000	1664	"	"	"	change IFD TO 2000m RD 2.0 sec.
	8723	3114	0906	"	1672	"	"	"	S/B#335 at 0902 ON 40x3

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# RECORDING LOG MCS

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DFS IV

Format: Seg B

BPI: 800

R/V ROBERT D. CONRAD

Cruise: 21-14

Line: 194

VORING PLATEAU

Date	Tape #	Shot Point #	Time	Trip Delay	Depth	Pop Rate	Samp. Rate	Rec. L.	Comments
18 Sept 1978	8724	3205	0943	2000	1703	24.5	4	12000	TPY = 2
	8725	3297	1020	"	1717	"	"	"	
	8726	3388	1057	"	1746	"	"	"	
	"	3432	1115	3000					Change IFD to 3000 RD 3.0 sec.
	8727	3481	1135	"	1751	"	"	"	
	8728	3574	1213	"	1751	"	"	"	
	8729	3668	1251	"	1751	"	"	"	
	8730	3761	1329	"	1750	"	"	"	
	8731	3855	1408	"	1750	"	"	"	
	8732	3948	1446	"	1751	"	"	"	Speed over ground 4.0 knots
		<del>4040</del>	1517	"	+	"	"	"	SB # 336 on Arr. 3
	8733	4040	1523	"	1751	"	"	"	
	8734	4133	1601	"	1751	"	"	"	1627 SB336 ended 1632 SB 337
	8735	4227	1640	"	1750	"	"	"	started
	8736	4320	1718	"	1750	"	"	"	
	8737	4413	1755	"	1751	"	"	"	
	8738	4508	1834	"	1750	"	"	"	
	8739	4601	1912	"	1750	"	"	"	
		4679	1944						compr. down. ALL GUNS OFF
	8740	<del>4746</del>	2011	3000	1750	"	"	"	BACK to Recor; GUNS 384 Firing

RECORDING LOG  
MCS

DFS IV

Format: Seg B

BPI: 800

R/V ROBERT D. CONRAD

Cruise: 21-14

Line: 194

## Vöring Platform

[illegible]

ESP 4

DFS IV

Format: SE6. B

LOFOTEN BASIN

BPI: 800

[illegible]

Line: 196

Lofoten Basin

BPI: 800

[illegible]

# RECORDING LOG

## MCS

R/V ROBERT D. CONRAD

Cruise: 21-14

Line: 197

DFS IV

Format: seg B

BPI: 800

LOFOTEN BASIN

Date	Tape #	Shot Point #	Time	Trip Delay MSEC	Depth FMS	Pop Rate SEC	Samp. Rate MSEC	Rec. L. MSEC	Comments
19 Sept 1978	8779	00001	2221	3000	1748	20.5	4	12000	ONLY 600# 18293 Firing 4 off.
	8780	94	2253	"	1746	"	"	"	
	8781	186	2324	"	1744	"	"	"	
	8782	279	2356	"	1744	"	"	"	
20 Sept 1978	8783	371	0027	"	1744	"	"	"	
	8784	464	0059	"	1746	"	"	"	
	8785	557	0131	"	1747	"	"	"	
	8786	650	0202	"	1747	"	"	"	
	8787	743	0234	"	1746	"	"	"	
	8788	835	0306	"	1746	19.5	"	"	changed pop rate to 19.5 sec SPEED OVER GROUND 5.0 KNOTS
	8789	927	0335	"	1745	"	"	"	
	8790	1020	0406	"	1740	"	"	"	
	8791	1112	0435	"	1690	"	"	"	SPEED OVER GROUND - 4.5 KNOTS
	8792	1207	0506	"	1680	"	"	"	
	8793	1299	0536	"	1700	"	"	"	
	8794	1393	0607	"	1746	"	"	"	2 SHOTS MISSED 91, 92
	8795	1486	0637	"	1746	"	"	"	SPEED OVER GROUND → 4.2 KNOTS
	8796	1579	0707	"	1745	"	"	"	
	8797	1671	0737	"	1745	"	"	"	
	8798	1763	0807	"	1732	"	"	"	

R/V ROBERT D. CONRAD

Cruise: 21-14

Line: 197

## RECORDING LOG

M C S

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DFS IV

Format: SEG. B

BPI: 800

## LOFOTEN BASIN

Date	Tape #	Shot Point #	Time	Trip Delay	Depth	Pop Rate	Samp. Rate	Rec. L.	Comments
20	8799	1855	0837	3000	1755	19.5	4	12000	
SEPT		1883	0846			23.5	"		Speed over Ground 4.3K. <sup>POP rate</sup> to 23.0
" 78"	8800	1948	0911	"	1755	"	"	"	
	8801	2040	0947	"	1755	"	"	"	
	8802	2132	1023	"	1756	"	"	"	
	8803	2229	1059	"	1756	"	"	"	
	8804	2317	1136	"	1756	"	"	"	
	8805	2410	1212	"	1756	"	"	"	
	8806	2503	1248	"	1756	"	"	"	
	8807	2595	1324	"	1756	"	"	"	
	8808	2689	1401	"	1703	"	"	"	
	8809	2782	1437	"	1542	"	"	"	Speed over ground 4.2 knots
	8810	2876	1514	"	1612	"	"	"	
	8811	2969	1551	"	1610	"	"	"	30 62 Missed
	8812	3063	1628	"	1625	"	"	"	
	"	3113	1647						All guns off
	"	3146	1700	"					Guns #1 = 2 on
	8813	3186	1715	"	1625	"	"	"	
		3236	1736						All guns off End recording

1693  
2009

1009

220  
250  
285

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R/V ROBERT D. CONRAD

## RECORDING LOG

MCS

DFS IV

Cruise: 21-14

Format: Seq B

Line: 198

BPI: 800

LOFOTEN BASIN

Date	Tape #	Shot Point #	Time	Trip Delay	Depth	Pop Rate	Samp. Rate	Rec. L.	Comments
21 Sept	8814	0001	0954	3000	1645	20.0	4	12000	TPX=1 GUNS #1,2,3 Firing
	8815	93	1026	"	1604	"	"	"	
1978	"	133	1039			23.0			Pop rate change to 23.0 sec
21 SEP 1978	8816	186	1100	"	1578	"	"	"	
	8817	224	1115	"	1518	"	"	"	TPX=1 -ed SP 215 FAULT.
	8818	318	1152	"	1516	"	"	"	
21	8819	410	1228	"	1530	"	"	"	
	8820	503	1304	2000	1421	"	"	"	Trip delay changed to 2000 msec
	8821	594	1340	"	1790	"	"	"	
	8822	686	1415	"	1901	"	"	"	
	8823	777	1451	"	1901	"	"	"	
	8824	869	1527	"	1892	"	"	"	
	8825	960	1603	"	1991	"	"	"	
	8826	1052	1639	"	1885	"	"	"	
	8827	1143	1715	"	1658	"	"	"	
	8828	1235	1750	"	1750	"	"	"	slope db/octave out
	8829	1326	1826	"	1789	"	"	"	
	8830	1418	1902	"	1786	"	"	"	
	8831	1509	1937	"	1761	"	"	"	
	8832	1601	2014	"	1711	"	"	"	

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## RECORDING LOG

M C S

R/V ROBERT D. CONRAD

Cruise: 21-14

Line: 198

DFS IV

Format: Seq B

BPI: 800

LoFoten BASIN

Date	Tape #	Shot Point #	Time	Trip Delay	Depth	Pop Rate	Samp. Rate	Rec. L.	Comments
21	8833	1692	2049	2000	1707	23.0	4	12000	
Sept	8834	1784	2125	"		"	"	"	10X=1
1978	"	1816	2137						S/L # ON AU+3
	8835	1875	2201	"	1703		"	"	
-	"	1928	2221			20.5			change pop rate to 20.0
	8836	1967	2235	"	1688				
	8837	2058	2306	"	1670	"	"	"	
	8838	2149	2337	"	1650	"	"	"	
	8839	2240	0008	"	1626	"	"	"	
	8840	2332	0039	"	1603	"	"	"	
	8841	2424	0111	"	1577	"	"	"	
	8842	2516	0142	"	1522	"	"	"	
	8843	2608	0213	"	1479	"	"	"	
	8844	2700	0245	"	1419	"	"	"	
	8845	2791	0316	"	1396	"	"	"	
	8846	2882	0347	"	1377	"	"	"	
	8847	2973	0418	"	1300	"	"	"	
	8848	3066	0449	"	1267	"	"	"	
	8849	3156	0520	"	1260	"	"	"	
	8850	3248	0552	"	1254	"	"	"	

52.

## 34

DFS IV

Format: SEG. B

BPI: 806

LOFO TEN BASIN

[illegible]

## 32

DFS IV

Format: *Seg B*

BPI: 80 0

Jan Mayen Ridge

[illegible]

JAN Mayen Ridge

BPI: 800

[illegible]

1372  
1291  
91

# RECORDING LOG

M C S

34

R/V ROBERT D. CONRAD

Cruise: 21-14

Line: 201

DFS IV

Format: *sy B*

BPI: 800

*Iceland Plateau*

Date	Tape #	Shot Point #	Time	Trip Delay <i>min</i>	Depth <i>fms</i>	Pop Rate <i>sec</i>	Samp. Rate <i>min</i>	Rec. L. <i>min</i>	Comments
23	8879	00001	0024	-0-	394	20.5	4	1200	New Line
<i>Sept</i>	8880	92	0055	-0-	398	"	"	"	
<i>1978</i>	8881	183	0126	-0-	394	"	"	"	
	8882	274	0157	-0-	402	"	"	"	
	8883	366	0229	-0-	405	"	"	"	
	8884	457	0300	-0-	503	"	"	"	
	8885	549	0331	-0-	736	"	"	"	
	8886	640	0402	0	865	"	"	"	
	8887	732	0434	0	900	"	"	"	
	8888	823	0505	0	950	"	"	"	0506 SB. 339 in water
	8889	915	0536	0	1090	"	"	"	
	8890	1006	0607	0	1106	"	"	"	
	8891	1098	0639	0	1106	"	"	"	
	8892	1189	0710	0	1145	"	"	"	
	8893	1281	0741	0	1192	"	"	"	0743 END OF SB.
	8894	1372	0812	-0-		"	"	"	
	8895	1464	0843	-0-	1200	"	"	"	
	8896	1555	0915	-0-	1200	"	"	"	
	8897	1645	0945	-0-	1200	"	"	"	
	8898	1735	1016	-0-	1190	"	"	"	

## 35

DFS IV

Format: *Seg B*

BPI: 800

IceLAND Plotter

END LINE 201

36  
DFS IV  
Format: *Seq B*  
BPI: *800*

[illegible]

R/V ROBERT D. CONRAD

Cruise: 21-14

Line: 203

RECORDING LOG  
M C S

37

DFS IV

Format: Seq B

BPI: 800

IceLAND Plateau

Date	Tape #	Shot Point #	Time	Trip Delay msec	Depth fms	Pop Rate sec	Samp. Rate msec	Rec. L. msec	Comments
24	8920	06001	0050	-0-	1042	20.5	4	12000	Begin New line, EEL on near surface
Sept	8921	93	0121	-0-	1034	"	"	"	causing much noise on record, asked
1978	8922	185	0153	-0-	1021	"	"	"	bridge to reduce speed (heavy seas)
	8923	277	0224	-0-	1020	"	"	"	Speed on ground 4.8 knots
	8924	368	0255	-0-	987	"	"	"	
	8925	460	0327	-0-	1002	"	"	"	
	8926	551	0358	-0-	1002	"	"	"	
	8927	645	0430	0	1013	"	"	"	3 SHOTS MISSEN
	8928	736	0501	0	1020	"	"	"	
	8929	828	0532	0	1000	"	"	"	
	8930	918	0603	0	1000	"	"	"	
	8931	1010	0634	0	1000	"	"	"	
	8932	1101	0705	0	1000	"	"	"	
	8933	11192	0736	0	1015	"	"	"	
	8934	1283	0807	-0-	994	"	"	"	
	8935	1375	0839	-0-	874	"	"	"	
	8936	1466	0910	-0-	825	"	"	"	
	8937	1557	0941	-0-	795	"	"	"	
	8938	1648	1012	-0-	890				
	"	1735	1042		GN D	LINE#			at sp 1735

1037

2210

# RECORDING LOG

## M C S

38

R/V ROBERT D. CONRAD

Cruise: 21-14

Line: 204

DFS IV

Format: Seg B

BPI: 800

Ice Land Plateau

Date	Tape #	Shot Point #	Time	Trip Delay	Depth	Pop Rate	Samp. Rate MS <sup>2</sup> sec	Rec. L. MS <sup>2</sup>	Comments
24 Sept	8939	00001	<del>12:00</del>	0	917	20	4	12000	
		08	12:03	"		24			Firing sequence 24 sec.
1978	8940	93	12:37	"	846	"	"	"	
	8941	183	13:14	"	854	"	"	"	
	8942	274	13:51	"	1039	"	"	"	
	8943	368	14:29	"	1012	"	"	"	Missing 3668367 shots
	8944	459	15:07	"	1002	"	"	"	
	8945	555	15:46	"	986	"	"	"	Missing 4 shots From 550 to 554
	8946	646	16:23	"	996	"	"	"	
	8947	737	17:00	"	980	"	"	"	Guns #3 out
	8948	828	17:37	"	973	"	"	"	
		906	18:09	"		"	"	"	Guns 3 & 4 off
	8949	920	18:15	"	1014	"	"	"	
	8950	1011	18:52	"	984	"	"	"	<del>Gun</del>
		1015							<del>At 1, 2, 4</del> guns Firing
	8951	1103	19:29	"	1035	"	"	"	Speed over ground 3.5 kts
		1112				26	"	"	Pop rate changed to 26 sec
	8952	1194	20:09	"	1054	"	"	"	
	8953	1285	20:49	"	1048	"	"	"	
	8954	1376	21:30	"	1071	"	"	"	

## 39

DFS IV

Format: seg B

BPI: 800

# ICELAND PLATEAU

Date	Tape #	Shot Point #	Time	Trip Delay	Depth FMS	Pop Rate	Samp. Rate MSEC	Rec. L. MSEC	Comments
24 Sept 1978	8955	1467	2210	-0-	1037	265	4	12000	C. w #3 out
	8956	1559	2250	-0-	1055	"	"	"	
	8957	1650	2330	-0-	1055	"	"	"	
	8958	1741	0010	-0-	1052	"	"	"	
	8959	1831	0050	-0-	1032	"	"	"	
	8960	1922	0130	-0-	997	"	"	"	
		1967	0151						← Lost land, <del>the</del> ship's voltage coupling greatly
	<del>8961</del>	<del>1980</del>	<del>0156</del>	<del>-0-</del>	<del>960</del>	<del>"</del>	<del>"</del>	<del>"</del>	lost land again, ship's power failure
			<del>0159</del>						
END LINE 204									RT Time 0151 SHOT # 1967

R/V ROBERT D. CONRAD

Cruise: 21-14

Line: 205

## RECORDING LOG

M C S

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DFS IV

Format: *Seq B*

BPI: 800

*Iceland Plateau*

Date	Tape #	Shot Point #	Time	Trip Delay	Depth	Pop Rate	Samp. Rate	Rec. L.	Comments
25	8961	0001	1723	1000	1190	24	4	12000	TPX = <i>Gun #3 out</i>
<i>Sept</i>	8962	92	1800	"	1193	"	"	"	<i>Shot 185-187 missed</i>
1978	8963	188	1841	"	1191	"	"	"	<i>SB 342A on Aux 3 at 1914</i>
	8964	279	1916	"	1190	"	"	"	
	8965	371	1954	"	1191	"	"	"	<i>SB 342 ON AUX 3 1952</i>
	8966	462	2031	"	1198	"	"	"	
	8967	553	2108	"	1178	"	"	"	
	8968	644	2146	"	1159	"	"	"	
	8969	736	2223	"		"	"	"	
	"	770	2237			22.5			<i>Speed over <del>63</del> Ground 4.3 <i>climb for note</i></i>
	8970	826	2258	"	1141	"	"	"	
	8971	918	2332	"	1090	"	"	"	
26	8972	1009	0006	"	1000	"	"	"	
<i>Sept.</i>	8973	1101	0041	"	970	"	"	"	
1978	8974	1192	0115	"	628	"	"	"	
	8975	1284	0149	-0-	507	"	"	"	<i>Changed trip delay to -0-</i>
	8976	1376	0224	-0-	507	"	"	"	<i>Shots 1373 to 1375 lost due to <i>TPX-1</i> malfunction.</i>
	8977	1468	0258	-0-	501	"	"	"	
	8978	1559	0332	-0-	623	"	"	"	
		1617	0354	-0-					<i>END LINE 205</i>

*END LINE 205*

R/V ROBERT D. CONRAD

Cruise: RC21-14

Line: 206

## RECORDING LOG

MCS

DFS IV

Format: SEG.B

BPI: 800

## ICELAND PLATEAU

Date	Tape #	Shot Point #	Time	Trip Delay	Depth	Pop Rate	Samp. Rate m/sec	Rec. L. m/sec	Comments
26	8979	0001	0436	0	837	22.5	4	12000	GUN#3 out
SEPT	8980	092	0510	0	586	"	"	"	
TS	8981	185	0545	8	566	"	"	"	1 SHOT MISSED
	8982	276	0619	0	566	"	"	"	
	8983	369	0655	0	600	"	"	"	1 SHOT MISSED
	8984	461	0729	0	632	"	"	"	
	8985	553	0803	-0-	898	"	"	"	
	8986	644	0837	-0-	1109	"	"	"	
	8987	736	0912	-0-	1109	"	"	"	
	8988	827	0946	-0-	1158	"	"	"	
	8989	919	1020	-0-	1155	"	"	"	
	8990	1010	1054	-0-	1167	"	"	"	
	8991	1102	1129	-0-	1172	"	"	"	
	8992	1193	1203	-0-	1064	"	"	"	
	8993	1291	1240	-0-	986	"	"	"	missed from 1285-1290 or 6 shots.
	8994	1382	1314	0	892	"	"	"	Testing streamers inputs.
	8995	1474	1348	0	942	"	"	"	
		1528	1408			20.8			speed over ground $\approx$ 5.0 - Pop Rate 20.5
	8996	1565	1421	0	1010	<del>11</del>	"	"	
	8997	1656	1452	0	1162	"	"	"	1448 S.B. 344 "ON"

R/V ROBERT D. CONRAD  
Cruise: RC 21-14  
Line: 206

RECORDING LOG  
MCS

Iceland Plateau

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DFS IV  
Format: Seq. B  
BPI: 800

Date	Tape #	Shot Point #	Time	Trip Delay	Depth FMS	Pop Rate sec	Samp. Rate m sec	Rec. L. msec	Comments
26	8998	1747	1523	0	1160	20.5	4	12000	1448 S.B. 344 "ON": GWH3 out
sept	8999	1839	1554	0	1188	"	"	"	
1978	9000	1930	1625	0	1180	"	"	"	SB 344 ended 1632
	9001	2022	1657		1188	"	"	"	Ints 99 - III missed
	9002	2112	1727		1194	"	"	"	
	9003	2203	1759	-0-	1194	"	"	"	
	9004	2294	1830	-0-	1198	"	"	"	
	9005	2387	1901	"	1194	"	"	"	
	9006	2478	1932	"	1182	"	"	"	
	9007	2570	2004	"	1183	"	"	"	
	9008	2661	2035	"	1187	"	"	"	
	9009	2753	2106	"		"	"	"	
	9010	2844	2137	"	1067	"	"	"	S/B # 345 ON 2140 ON AUX 3
	9011	2936	2209	"	1034	"	"	"	
	9012	3027	2240	"	1018	"	"	"	
	9013	3118	2311	"	1020	"	"	"	
	9014	3209	2342	"	1019	"	"	"	
	9015	3300	0013	-0-	1034	"	"	"	
	9016	3392	0048	-0-	1000	"	"	"	
	9017	3482	0115	-0-	980	"	"	"	



R/V ROBERT D. CONRAD

Cruise: 21-14

Line: 207

RECORDING LOG  
MCS

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DFS IV

Format: SEG. B

BPI: 800

## ICELAND PLATEAU

Date	Tape #	Shot Point #	Time	Trip Delay MSEC	Depth FMS	Pop Rate SEC	Samp. Rate MSEC	Rec. L. MSEC	Comments
27	9027	801	0836	1000	975	20.5	4	12000	TPX=1 GUNSH FIRING 1, 2, 4, 30
SEPT	9028	092	0907	"	985	"	"	"	
"78"	9029	183	0938	"	987	"	"	"	
	9030	257	1004	"		"	"	"	Missed shots 254, 255, 256. TPX=1 Fault.
	<del>9031</del>	309	1021						GUN#1 OFF
	9031	348	1035	"	1005	"	"	"	
	9032	447	1109	"	1033	"	"	"	Missed shots 440-446. TPX=2 Fault.
	9033	539	1140	"	1000	"	"	"	
	9034	632	1212	"	1015	"	"	"	
	9035	724	1243	"	1036	"	"	"	
			1256	—	—	—	—	—	Gun #1 "ON"
			1310	—	—	—	—	—	Gun #1 "OFF" (malfunction)
	9036	815	1314	"	1090	"	"	"	
			1320						Gun #1 "ON"
	9037	907	1345	"	1101	"	"	"	
	9038	999	1417	"	997	"	"	"	Wrong Tape ID 9068 should be 9038
		1002	—	—	—	—	—	—	Lo cut filters out.
	9039	1091	1448	"	989	"	"	"	Gun #3 "ON" (2 guns operation)
	9040	1171	1516	"	1035	"	"	"	Missing 1166 to 1170 (TPX=1 malfunction)
	9041	1263	1547	"	1065	"	"	"	

# RECORDING LOG

## MCS

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R/V ROBERT D. CONRAD

Cruise: RC 21-14

Line: 207

DFS IV

Format: Seg 13

BPI: 800

Iceland plateau

Date	Tape #	Shot Point #	Time	Trip Delay msec	Depth FMS	Pop Rate sec	Samp. Rate m sec	Rec. L. msec	Comments
27	9042	1354	1618	1000	1114	20.5	4	12000	
SEPT.	9043	1446	1649	"	1093	"	"	"	
1978	9044	1548	1721	"	1100	"	"	"	S/B 346 ON AUX 3 at 1741
	9045	1630	1752	"	1084	"	"	"	
	9046	1721	1823	"	1109	"	"	"	Missed shot 1813
	9047	1814	1855	"	1000	"	"	"	S/B 346 over at 1923
	9048	1906	1927	"	900	"	"	"	
	9049	1996	1957	"	940	"	"	"	
	9050	2087	2028	"	1010	"	"	"	
	9051	2180	2100	"	890	"	"	"	
	9052	2271	2130	"	590	"	"	"	
	9053	2364	2203	"		"	"	"	
	9054	2455	2234	"	998	"	"	"	
	9055	2548	2305	"	1072	"	"	"	
	9056	2639	2336	"	1072	"	"	"	
28	9057	2732	0008	"	1062	"	"	"	
SEPT	9058	2824	0039	"	1062	"	"	"	
1978	9059	2916	0111	"	1062	"	"	"	
	9060	3007	0142	"	1050	"	"	"	
	9061	3100	0214	"	623	"	"	"	

R/V ROBERT D. CONRAD

Cruise: 21-14

Line: 207

## RECORDING LOG

MCS

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DFS IV

Format: *Seq B*

BPI: 800

*ICELAND Platan*

Date	Tape #	Shot Point #	Time	Trip Delay msec	Depth	Pop Rate sec	Samp. Rate msec	Rec. L. msec	Comments
28	9061 <sup>cont</sup>	3119	0221	-0-	423	20.5	4	12600	changed delay to -0-
Sept.	9062	3191	0245	-0-	623	"	"	"	
1978	9063	3285	0317	-0-	744	"	"	"	
	9064	3376	0348	-0-	793	"	"	"	
	9065	3420	420	-0-	793	"	"	"	1 SHOT MISSED 3469
	9066	3563	451	0	800	"	"	"	
	9067	3654	523	0	800	"	"	"	
	9068	3745	554	0	800	"	"	"	
	9069	3839	626	0	812	"	"	"	1 SHOT MISSED 3838
	9070	3930	657	0	928	"	"	"	
	9071	4023	729	0	928	"	"	"	
	9072	4114	800	0	958	"	"	"	
	9073	4207	0831	-0-	970	"	"	"	
	9074	4298	0903	-0-	990	"	"	"	
	9075	4391	0934	-0-	1012	"	"	"	
	"	4447	0953						ENH4 OFF.
	9076	4481	1005	-0-	1036	"	"	"	
	9077	4574	1035	1000	1066	"	"	"	change IFD to 1000 msec at sp 4574
	9078	4665	1108	11	1124	"	"	"	
	9079	4758	1139	11	1220	"	"	"	

## 47

DFS IV

Format: Seq B

BPI: 800

Iceland Plateau

Date	Tape #	Shot Point #	Time	Trip Delay msec.	Depth Fms.	Pop Rate Sec	Samp. Rate MSEC	Rec. L. MSEC	Comments
28	9080	4849	12:11	1000	1269	20.5	4	12000	GUN #4 "ON" 12:05
Sept	9081	4942	1242	"	1315	"	"	"	
978	9082	5033	1313	"	1412	"	"	"	
	9083	5127	1345	"	1462	"	"	"	
	9084	5218	1416	"	1542	"	"	"	
	9085	5312	1449	"	1605	"	"	"	Missed shot 5311
	+	5323	1452	2000	"	"	"	"	Trip delay 2000 msec.
	9086	5404	1520	"	1668	"	"	"	
	9087	5498	1552	"	1709	"	"	"	
	9088	5589	1623	"	1782	"	"	"	
	9089	5683	1655	"	1836	"	"	"	Missed shot 5774
	9090	5775	1727	"	1854	"	"	"	
	9091	5868	1758	"	1858	"	"	"	
	9092	5959	1829	"	1860	"	"	"	
	9093	6053	1901	"	1858	"	"	"	
	9094	6145	1933	"	1858				Missed shot 6144
	"	6206	1954						END Line
		END			LIN E# 207				

R/V ROBERT D. CONRAD

Cruise: 21-14

Line: 208

RECORDING LOG  
M C S

48

DFS IV

Format: Seg B

BPI: 800

## ICELAND PLATEAU

Date	Tape #	Shot Point #	Time	Trip Delay msec	Depth FMS	Pop Rate MSON	Samp. Rate MSEC	Rec. L. MS	Comments
28	9095	00001	2043	3000	1917	20.5	4	12000	+PX =
Sept	9096	094	2115	"		"	"	"	
1978	9097	189	2148	"	1884	"	"	"	
	9098	281	2219	"	1872	"	"	"	
	9099	376	2251	"	1861	"	"	"	
	9100	468	2323	"	1806	"	"	"	
	9101	563	2355	"	1766	"	"	"	
29	9102	656	0027	"	1730	"	"	"	
Sept	9103	751	0059	"	1724	"	"	"	
1978	9104	844	0131	"	1630	"	"	"	
	9105	939	0203	"	1566	"	"	"	
	9106	1032	0235	"	1535	"	"	"	
	9107	1127	0307	2000	1458	"	"	"	changed trip delay to 2000 msec
	9108	1219	0339	"	1383	"	"	"	
	9109	1314	0411	"	1357	"	"	"	
	9110	1404	0442	"	1308	"	"	"	
	9111	1498	0514	"	1268	"	"	"	1497 - missed
	9112	1589	0545	"	1190	"	"	"	
	9113	1683	0617	"	1128	"	"	"	1582 - missed
	9114	1774	0648	"	1100	"	"	"	

3716

1751

830

# RECORDING LOG

## M C S

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R/V ROBERT D. CONRAD

Cruise: 21-14

Line: 208

DFS IV

Format: SEL. B

BPI: 800

### ICELAND PLATEAU

Date	Tape #	Shot Point #	Time	Trip Delay msec	Depth FMS	Pop Rate SEC	Samp. Rate mSPC	Rec. L. mSEC	Comments
29	9115	1868	0721	2000	1065	20.5	4	12000	1867 Missed
SEPT	9116	1959	0751	"	1056	"	"	"	
"28"	9117	2052	0823	"	1035	"	"	"	
	9118	2143	0854	"	1005	"	"	"	
	9119	2237	0926	1000	960	"	"	"	chang IFD to 1000m.
	9120	2328	0958	"	903	"	"	"	
	9121	2421	1029	"	830	"	"	"	
	9122	2512	1100	"	822	"	"	"	
	9123	2605	1132	"	822	"	"	"	
	9124	2696	1203	"	830	"	"	"	
	9125	2789	1235	"	661	"	"	"	
	9126	2885	1307	- 0 -	614	"	"	"	missing 5 shots 2880 2884 changed
	9127	2979	1340	"	589	"	"	"	IFD to - 0 -
	9128	3020	1411	"	646	"	"	"	
	9129	3163	1442	"	919	"	"	"	
	9130	3255	1514	"	1022	"	"	"	
	9131	3348	1545	"	986	"	"	"	
	9132	3439	1617	"	976	"	"	"	
	9133	3532	1648	"	862				
	9134	3623	1719		525				

R/V ROBERT D. CONRAD

## RECORDING LOG

M C S

DFS IV

Cruise: 21-14

Format: Beg B B

Line: 208

BPI: 800

## ICELAND PLATEAU

Date	Tape #	Shot Point #	Time	Trip Delay	Depth	Pop Rate	Samp. Rate	Rec. L.	Comments
29	9135	3716	1751	-0-	525	205	4	12000	Missed shot 3807
SEP	9136	3808	1822	-0-	856	"	"	"	
1978	9137	3901	1854	0	900	"	"	"	
	9138	3992	1925	0	956	"	"	"	
	9139	4086	1957	0	953	"	"	"	
	9140	4177	2028	-0-	970	"	"	"	
		4261	2057	-0-		"	"	"	CONS 284 OFF
	9141	4270	2100	-0-	957	"	"	"	
	9142	4361	2131	-0-	976	"	"	"	
	"	4386	2140						CONS 284 ON.
	9143	4454	2203	-0-	990	"	"	"	
	9144	4546	2234	-0-	994	"	"	"	
	9145	4638	2306	-0-	999	"	"	"	
	9146	4729	2337	-0-	989	"	"	"	S/B 347 ONAL3 at 2342
	"	4762	2347	-0-	993	"	"	"	SON #3 ON
30	9147	4821	0008	-0-	993	"	"	"	
SEP	9148	4912	0039	-0-	1004	"	"	"	
1978	9149	5006	0111	-0-	996	"	"	"	
	9150	5097	0142	-0-	996	"	"	"	
	9151	5191	0214	-0-	982	"	"	"	

R/V ROBERT D. CONRAD

Cruise: 21-14

Line: 208

## RECORDING LOG

MCS

Iceland Plateau

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DFS IV

Format: Seq B

BPI: 800

Date	Tape #	Shot Point #	Time	Trip Delay	Depth	Pop Rate	Samp. Rate	Rec. L.	Comments
30	9151 cont.		0230						Gun #2 off
Sept	9152	5282	0245	-0-	980	20.5	4	1200	
1978	9153	5376	0317	-0-	984	"	"	"	
	9154	5467	0348	-0-	960	"	"	"	NOISE IN SYSTEM CH. 24, 23, 22
	9155	5560	0420	0°	973	"	"	"	LOW CUT FILTERS ON REDUCED MONITOR GAIN
	9156	5651	0451	0	968	"	"	"	
	9157	5746	0523	0	968	"	"	"	
	9158	5836	0554	0	975	"	"	"	
	9159	5930	0626	0	970	"	"	"	
	9160	6020	0657	0	970	"	"	"	SB348 AT 0723
	9161	6114	0729	0	967	"	"	"	
	9162	6204	0800	-0-	970	"	"	"	
	9163	6298	0832	-0-	972	"	"	"	
	9164	6389	0903	-0-	972	"	"	"	
	9165	6482	0935	-0-	971	"	"	"	
	9166	6573	1006	-0-	963	"	"	"	at 1021 SB 348 OFF
	9167	6666	1038	0	959	"	"	"	at 1102 Gun #2 on
	9168	6757	1109	0	945	"	"	"	
	9169	6851	1141	0	940	"	"	"	
	9170	6942	1212	0	915	"	"	"	Gun #2 'OFF'

RECORDING LOG  
MCS

R/V ROBERT D. CONRAD

Cruise: RC 21-14

Line: 208

DFS IV

Format: *Seg B*

BPI: 800

## Iceland Plateau

[illegible]

R/V ROBERT D. CONRAD

RECORDING LOG  
MCS

DFS IV

Cruise: 21-14

Format: Seq B

Line: 209

BPI: 800

## Iceland Plateau

Date	Tape #	Shot Point #	Time	Trip Delay msec	Depth fms	Pop Rate sec	Samp. Rate msec	Rec. L. msec	Comments
30	9180	001	1755	0	534	2000	4	12000	gun #4 firing; low cut filters
Sept	9181	094	1826	"	539	"	"	"	in at 36 dB/octave
1978	9182	120	1836	"	564	"	"	"	Missed shot 119
	9183	214	1907	"	564	"	"	"	TAPE 9182 has wrong TAPE ID
	9184	256	1922	0	564	"	"	"	shot 255 Missed
	9185	349	1954	0	545	"	"	"	
	9186	439	2024	0	890	"	"	11	
	9187	533	2056	0	899	"	"	"	
	9188	623	2127	0	897	"	"	"	
	9189	717	2159	0	897	"	"	"	Missed shot #801 TPX=1 Fault.
	9190	802	2228	0	920	"	"	"	
	9191	895	2300	0	929	"	"	"	Missed shot #894
	9192	986	2331	0	929	"	"	"	TPX=2
1	9193	1079	0003	0	930	"	"	"	
Oct		<del>117</del>	0024						Gun #3 on All guns on (4)
1978	9194	1120	0034	-0-	930	"	"	"	
	9195	1263	0105	-0-	921	"	"	"	
	9196	1354	0136	-0-	919	"	"	"	
	9197	1447	0208	-0-	918	"	"	"	
		1478	0219						Low-cut filters out

R/V ROBERT D. CONRAD

Cruise: 21-14

Line: 209

RECORDING LOG  
MCS

Iceland Plateau

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DFS IV

Format: Seq B

BPI: 800

Date	Tape #	Shot Point #	Time	Trip Delay msec	Depth fms	Pop Rate sec	Samp. Rate msec	Rec. L. msec	Comments
01 OCT 1978	9198	1538	0239	-0-	915	20.5	4	12000	
	9199	1631	0311	-0-	910	"	"	"	
	9200	1722	0342	-0-	904	"	"	"	
	9201	1815	0414	0	897	"	"	"	4:19 - SB 349 IN WATER
	9202	1905	0444	0	897	"	"	"	
	9203	1998	0516	0	897	"	"	"	
	9204	2089	0547	0	<del>867</del> 869	"	"	"	CHANNEL 2 OUT TEMP.
	9205	2183	0620	0	853	"	"	"	2182 MISSED CH. 2 BACK IN
	9206	2273	0650	0	855	"	"	"	END S.R. 06:50
	9207	2366	0722	0	856	"	"	"	
	9208	2457	0753	0	856	"	"	"	
	9209	2549	0824	0	856	"	"	"	
	9210	2640	0855	0	855	"	"	"	
	9211	2733	0927	-0-	871	"	"	"	
	9212	2829	0958	0	875	"	"	"	
	9213	2916	1030	0	874	"	"	"	
	9214	3007	1101	0	876	"	"	"	
	9215	3098	1132	0	872	"	"	"	
	9216	3189	1203	0	864	"	"	"	
	9217	3281	1234	0	762	"	"	"	

R/V ROBERT D. CONRAD

## RECORDING LOG

Cruise: 21-14

MCS

DFS IV

Line: 209

Format: *Seq B*

BPI: 800

*Iceland Plateau*

Date	Tape #	Shot Point #	Time	Trip Delay msec	Depth	Pop Rate sec	Samp. Rate msec	Rec. L. msec	Comments
01 OCT 1978	9218	3372	1305	-0-	870	20.5	4	12000	TPX-2 Gun # 4 OFF
	9219	3465	1337	-0-	850	"	"	"	
	9220	3556	1408	-0-	828	"	"	"	
	9221	3648	1439	-0-	828	"	"	"	
	9222	3740	1511	-0-	826	"	"	"	
	9223	3832	1542	-0-	826	"	"	"	
	9224	3923	1613	0	800	"	"	"	
	9225	4015	1644	0	800	"	"	"	
	9226	4105	1715	0	786	"	"	"	
	9227	4199	1747	0	692	"	"	"	
	9228	4290	1818	0	740	"	"	"	
	9229	4383	1850	0	835	"	"	"	
	9230	4474	1921	0	875	"	"	"	
	9231	4567	1953	0	889	"	"	"	
	9232	4658	2024	0	891	"	"	"	
	9233	4751	2056	0	891	"	"	"	Missed shots #4838-4839 TPX=1 FAULT
	9234	4840	2126	0		"	"	"	
	9235	4933	2158	0		"	"	"	
	"	5008	2224						GNS #1,3 OFF
	9236	5024	2229	0	882	"	"	"	

R/V ROBERT D. CONRAD

Cruise: 21-14

Line: 209

RECORDING LOG  
M C S

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DFS IV

Format: Seg B

BPI: 800

ICELAND PLATEAU

Date	Tape #	Shot Point #	Time	Trip Delay	Depth	Pop Rate	Samp. Rate	Rec. L.	Comments
02 OCT 1978	9237	5117	2300	0	889	20.5	4	12000	TPX=1
	"	5135	2307						CUNS #1,3 ON
02	9238	5209	2332	0	872	20.	4	12000	
	"	5223	2337	—	—	24.5	—	—	Pop rate change 24.5, Lo cut FILTERS IN at 36.5/sec
	9239	5301	0008	-0-	723	"	"	"	
	9240	5392	0045	-0-	880	"	"	"	
	9241	5485	0123	-0-	907	"	"	"	
	9242	5576	0201	-0-	1034	"	"	"	
	9243	5669	0239	-0-	1076	"	"	"	
	9244	5761	0316	-0-	1080	20.5	"	"	Pop rate change to 20.5
		5797	0328						Low cut filters out
	9245	5855	0348	-0-	1111	"	"	"	
	9246	5946	0419	"	1132	"	"	"	
	9247	6040	0451	"	1140	"	"	"	
	9248	6131	0522	"	1163	"	"	"	
	9249	6224	0554	"	1191	"	"	"	
	9250	6315	0625	"	1206	"	"	"	
	9251	6409	0657	"	1306	"	"	"	Missed shots 6407 & 6408
	9252	6486	0724	"	1375	"	"	"	TPX1 Tape #9251 (malfunctioned shot #6485)
	9253	6579	0755	"	1388	"	"	"	

R/V ROBERT D. CONRAD

Cruise: 21-14

Line: 209

RECORDING LOG  
MCS

Iceland plateau

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DFS IV

Format: seg B

BPI: 800

Date	Tape #	Shot Point #	Time	Trip Delay	Depth	Pop Rate	Samp. Rate	Rec. L.	Comments
OCT	9254	6670	0826	0	1518	20.5	4	1200	
2	"	6688	0932	1000					IFD 1000 msec at sp 6688
1978	9255	6763	0858	1000	1583	"	"	"	
	9256	6854	0929	1000	1641	"	"	"	
	9257	6947	1001	2000	1699	"	"	"	IFD 2000 msec at sp 6947
	9258	7038	1032	"	1736	"	"	"	
	9259	7131	1104	"	1774	"	"	"	
	9260	7222	1135	"	1801	"	"	"	
	9261	7316	1207	"	1801	"	"	"	
	9262	7408	1238	"	1871	"	"	"	
		7481	1303	"		"	"	"	Low-cut filters in
	9263	7501	1310	"	1874	"	"	"	
	9264	7593	1341	"	1871	"	"	"	
	9265	7686	1413	"	1867	"	"	"	
	9266	7778	1444	"	1874	"	"	"	
	9267	7873	1517	"	1739	"	"	"	Missed shot # 7872 & possibly 7871
	9268	7964	1548	"	1699	"	"	"	
	9269	8057	1620	"	1694	"	"	"	16:45 4 GUNS BACK ON
	9270	8148	1651	"	1845	"	"	"	
	9271	8241	1722	"	1862	"	"	"	
	9272	8315	1748	"		"	"	"	

## RECORDING LOG

MCS

DFS IV

Format: SEB.B

BPI: 800

A/V ROBERT D. CONRAD

Cruise: 21-14

Line: 210

NORWAY BASIN  
NORWEGIAN BASIN

Date	Tape #	Shot Point #	Time	Trip Delay MSEC	Depth FMS	Pop Rate SEC	Samp. Rate MSEC	Rec. L. MSEC	Comments
2	9272	0001	1847	2000	1924	20.5	41	12000	
OCT	9273	092	1918	"	"	"	"	"	
78	9274	186	1951	"	1943	"	"	"	
	9275	277	2021	"	1935	"	"	"	
	9276	380	2056	"	1937	"	"	"	
	9277	475	2129	"	1890	"	"	"	
<del>*</del>	9278	568	2201	"					
	9279	671	2236	"	1860	"			
	"	697	2244			24.5			
	9280	764	2312	2000	1800	"			
	9281	867	2354	"	1780	"			
3	9282	960	0032	"	1802				
OCT	9283	1063	0114	"	1824				
1978	9284	1156	0152	"	1795				
			0212	"					
	9285	1259	0234	"	1792	"			
		1273	0239			25.5			
	9286	1352	0313	"	1691	"	"	"	
	9287	1454	0356	"	1725	"	"	"	
	9288	1547	0446	"	1795	"	"	"	

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185

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200

180-188

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197

Pop rate to 25.5

433 A.

1289

# RECORDING LOG

MCS

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R/V ROBERT D. CONRAD

Cruise: RC 21-14

Line: 210

NORWAY BASIN  
Iceland plateau

DFS IV

Format: Seq B

BPI: 800

Date	Tape #	Shot Point #	Time	Trip Delay msec	Depth FMS.	Pop Rate sec	Samp. Rate msec	Rec. L. msc	Comments
3	9289	1650	0520	2000	1795	25.5	4	12000	all guns "OFF" 0524
Oct.	9290	1744	0559	"	1682	"	"	"	all guns "ON" 0525
1978	9291	1847	0643	"	1728	"	"	"	
			0656						Gun # 2 "OFF"
	9292	1940	0723	"	1738	"	"	"	
	9293	2042	0806	"	1691	"	"	"	
	9294	2135	0846	"		"	"	"	
	9295	2238	0929	"	1555	"	"	"	
	9296	2331	1009	"	1492	20.5			Speed over Ground S.O. pop rate = 20.0
	9297	2434	1044	"	1411	"	"	"	Missed shot # 2433
	9298	2556	1115	"	1223	"	"	"	
	9299	2629	1150	"	1195	"	"	"	at sp 2663 Bad Trip (ITB)
	9300	2722	1222	"	1195	"	"	"	
	9301	2825	1257	1000	1136	"	"	"	change IFD to 1000 msec (trip delay)
	9302	2918	1329	"	1080	"	"	"	
	9303	3020	1404	"	1061	"	"	"	
	9304	3112	1435	"	1035	"	"	"	
		3210	1508						Gun # 2 on All Guns on (4)
	9305	3215	1510	"	1000	"	"	"	
	9306	3308	1542	"	956	"	"	"	

R/V ROBERT D. CONRAD

Cruise: 21-14

Line: 210

## RECORDING LOG

MCS

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DFS IV

Format: Seg B

BPI: 800

Norway Basin

Date	Tape #	Shot Point #	Time	Trip Delay msec	Depth	Pop Rate sec	Samp. Rate msec	Rec. L. msec	Comments
3	9307	3410	1617	1000	922	20.5	4	12000	
at	9308	3504	1648	"	887	"	"	"	
1978	9309	3605	1723	"	829	"	"	"	
	9310	3698	1755	11	770	"	"	"	
	9311	3800	1830	0000	706	"	"	"	
	9312	3893	1902	0000	657	"	"	"	CHANGED DELAY TO 0 SEC.
	9313	3995	1936	"	619	"	"	"	
*	9314	4088	2008	0	580	"	"	"	#2 LOW CUT FILTER OUT
	9315	4190	2043	0		"	"	"	GUN #3 OFF
	9316	4283	2115	0	496	"	"	"	
	9317	4385	2150	0	472	"	"	"	
	9318	4478	2221	0	466	"	"	"	
	9319	4580	2256	0	464	"	"	"	
	9320	4673	2328	0	470	"	"	"	
	9321	4776	0003	0	469	"	"	"	GUN #2 OFF #1 & #4 ON
	9322	4869	0035	0	478	"	"	"	
			0040						GUN #2 ON GUNS #1, #2, & #4 ON
	9323	4971	0110	0	483	"	"	"	
	9324	5064	0141	0	477	"	"	"	
			0148						GUN #3 ON ALL FOUR GUNS ON

BPI: 800

## Norway Basin

[illegible]

16m off

1012

## RECORDING LOG

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R/V ROBERT D. CONRAD

Cruise: RC 21-14

Line: 211

MCS

ICELAND FAEROE RIDGE  
~~Norway Basin~~  
~~Iceland Plateau~~

DFS IV

Format: SEG B

BPI: 800

Date	Tape #	Shot Point #	Time	Trip Delay msec	Depth fms	Pop Rate sec	Samp. Rate msec	Rec. L. msec	Comments
4	9333	0001	0645	0	412	20.5	4	12000	START Line # 211
OCT	9334	93	0717	0	405	"	"	"	CUN #1 Firing Low pressure
1978	9335	196	0752	"	400	"	"	"	
	9336	288	0823	"	374	"	"	"	
	9337	390	0858	"	386	"	"	"	
	9338	483	0930	"	516	"	"	"	
	9339	585	1005	"	866	"	"	"	
	9340	678	1036	"	690	"	"	"	at 1045 CUN #1 OFF
	9341	780	1111	0	678	20.5	4	12000	Low cut Filters in. Noise on records, Reducing
	9342	873	1143	0	774	"	"	"	Speed To Try and drop streamer in water.
	9343	976	1218	0	565	"	"	"	
	9344	1069	1250	0	352	"	"	"	ENDED 9344 early because of many faulty errors
	9345	1119	1307	0	369	"	"	"	
	9346	1212	1338	0	341	"	"	"	
	9347	1315	1414	0	307	"	"	"	
		1385	1437			23.5	"	"	Speed over ground 4.2 knots changed Pop rate
	9348	1408	1446	0	294	"	"	"	
	9349	1511	1527	0	291	"	"	"	
	9350	1604	1603	0	292	"	"	"	
	9351	1706	1643	0	299	"	"	"	

R/V ROBERT D. CONRAD

Cruise: 21-14

Line: 211

## RECORDING LOG

MCS

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DFS IV

Format: SEG. B

BPI: 800

ICELAND - FAEROE RIDGE

Date	Tape #	Shot Point #	Time	Trip Delay m SEC	Depth FMS	Pop Rate SEC	Samp. Rate m SEC	Rec. L. m SEC	Comments
4	9352	1799	1720	0	299	23.5	4	12000	
OCT	9353	1901	1800	0	299	"	"	"	1821 - 4 GUNS IN OPERATION
"78"	9354	1994	1836	0	299	"	"	"	
	9355	2096	1916	0	"	"	"	"	1923-95B. #352 ON
	9356	2189	1952	0	326	"	"	"	
*	9357	2290	2032	0	319	"	"	"	*LOW CUT FILTERS OUT
	9358	2383	2108	0	318	"	"	"	
	9359	2485	2148	0	318	"	"	"	
	9360	2577	2229	0	317	"	"	"	
	9361	2679	2309	0	316	"	"	"	
	9362	2773	2341	0	315	"	"	"	
5	9363	2875	0020	0	316	"	"	"	
OCT.	9364	2968	0057	0	316	"	"	"	
1978	9365	3071	0137	0	300	"	"	"	
	9366	3165	0214	0	297	"	"	"	
	9367	3267	0254	0	291	"	"	"	
	9368	3360	0330	0	286	"	"	"	
		3377	0337			20.5			Speed over ground 4.9 knots Changed Pop-rate
	9369	3462	0406	0	279	"	"	"	
	9370	3555	0438	0	271	"	"	"	0442 GUN #4 "OFF" (malfunction)

63.6  
10.36-9  
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R/V ROBERT D. CONRAD  
Cruise: RC 21-14  
Line: 211

RECORDING LOG  
M C S

ICELAND - FAROE RIDGE

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DFS IV  
Format: Seg B.  
BPI: 800

Date	Tape #	Shot Point #	Time	Trip Delay msec	Depth FMS	Pop Rate sec	Samp. Rate msec	Rec. L. msec	Comments
5	9371	3657	0512	0	270	20.5	4	12000	Guns#1, 2 & 3 ON. only
OCT. 1978	9372	3749	0544	"	260	"	"	"	
	9373	3852	0619	"	222	"	"	"	
	9374	3945	0651	"	205	"	"	"	Gun #2 OFF 0652
			0705						Gun #2 "ON"
	9375	4049	0726	"	176	"	"	"	
	9376	4142	0758	"	207	"	"	"	at 0801 Gun #2 OFF AND #
			0809						Guns #2 ON #3 OFF *Firing LOW PROBE
	9377	4244	0833	"	225	"	"	"	#3 OFF 353 ON AUT3 at 0827
	9378	4337	0905	"	231	"	"	"	
	9379	4439	0939	"	232	"	"	"	
	9380	4532	1011	"	234	"	"	"	
	9381	4634	1046	"	238	"	"	"	
	9382	4727	1118	"	239	"	"	"	
	9383	4829	1152	"	239	"	"	"	
	9384	4922	1224	"	238	"	"	"	
	9385	5024	1259	"	246	"	"	"	
	9386	5117	1330	"	251	"	"	"	
	9387	5220	1406	"	257	"	"	"	
	9388	5313	1437	"	258	"	"	"	

R/V ROBERT D. CONRAD

Cruise: 21-14

Line: 211

## RECORDING LOG

M C S

DFS IV

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Format: Seg B

BPI: 800

Iceland FAERØE Ridge

Date	Tape #	Shot Point #	Time	Trip Delay msec	Depth fms	Pop Rate sec	Samp. Rate msec	Rec. L. msec	Comments
5	9389	5416	1510 1512	-0-	264	205	4	12000	MT 1510 SB# 354 on Aux 3
05	9390	5510	1545	-0-	291	"	"	"	16:14 GUN#3 DOWN/2 IN OPERATION
1978	9391	5612	1619	0	291	"	"	"	
	9392	5706	1652	0	302	"	"	"	5705 WAS MISSED
	9393	5807	1726	0	302	"	"	"	GUN#2 DOWN at 1735?
	9394	5900	1758	0	334	"	"	"	
	"	5904	1800						ALL GUNS OFF * STOP RECORDING
	"	5927	1807						GUNS #1 & 2 ON
	9395	6023	1840	0	340	"	"	"	18:50 SB IN WATER
	9396	6116	1911	0	340	"	"	"	NOISE ON SYSTEM-EEL RIDING "HIGH"
	9397	6218	1946	0	340	"	"	"	1932 GUN 2-OFF #421-ON
*	9398	6311	2018	0	339	"	"	"	1944 GUN #4 FIRING INTERMITTENTLY
	9399	6413	2053	0	393	"	"	"	1955 GUN #4 - OKAY
	9400	6506	2125	0	406	"	"	"	#GUN#4 STOP FIRING
	9401	6607	2159	0	428				
	9402	6700	2231	0	471	"	"	"	
	9403	6802	2306	0	483	"	"	"	
	9404	6895	2337	0	500	"	"	"	
6	9405	6997	0012	0	500	"	"	"	
05.78	9406	7090	0044	0	519	"	"	"	#9406 has NO EOT SILVER Tpb

DFS IV 66  
Format: *Sig B*  
BPI: 800

Iceland Faeroe Ridge

[illegible]

R/V ROBERT D. CONRAD

Cruise: 21-14

Line: 212

## RECORDING LOG

MCS

DFS IV

67

Format: Beg B

BPI: 800

Iceland FARROR Ridge

Date	Tape #	Shot Point #	Time	Trip Delay msec	Depth fms	Pop Rate sec	Samp. Rate msec	Rec. L. msec	Comments
6	9409	60001	0312	-0-	540	20.5	4	12000	Begin Line
08	9410	105	0347	-0-	537	"	"	"	
1978	-	-	0405	-	-	-	-	-	Gun # 4 "OFF" (malfunction)
	-	-	0412	-	-	-	-	-	Gun # 4 "ON"
	9411	200	0420	0	530	20.5	4	1200	Missed shot #199
	9412	303	0455	"	520	"	"	"	
	9413	396	0527	"	496	"	"	"	
	9414	500	0602	"	444	"	"	"	Missed shot #199
	-	596	0634	"	420	"	"	"	all guns "OFF" (malfunction)
	9415	623	0644	"	420	"	"	"	Gun #1 #4 "ON".
	-	-	0715	-	-	-	-	-	Gun # 2 "OFF" (malfunction)
	9416	726	0719	"	405	"	"	"	
	-	-	0722	-	-	-	-	-	Gun # 2 "ON"
	9417	819	0751	"	405	"	"	"	
	9418	921	0826	"	402	"	"	"	Low est FILTERS IN 36 slope, dh/octave
	"	992	0851						GUNS #1 & 4 STOP FIRING
	9419	1031	0904	"	367	"	"	"	
	9420	1133	0938	"	348	"	"	"	
	9421	1226	1010	"	331	"	"	"	
	9422	1328	1045	"	325	"	"	"	

BPI: 800

ICELAND FAEROE RIDGE

[illegible]

2152

2001

685

# RECORDING LOG

## M C S

R/V ROBERT D. CONRAD

Cruise: 21-14

Line: 213

DFS IV 69

Format: Seg B

BPI: 800

### FAEROE ISLANDS

Date	Tape #	Shot Point #	Time	Trip Delay	Depth	Pop Rate	Samp. Rate	Rec. L.	Comments
06 Oct	9434	00001	1734	0	271	20.5	4	12000	ONLY GUNS=1 & 4 Firing low pressure
	9435	093	1806	0	271	"	"	"	
1978	9436	195	1840	0	259	"	"	"	
	9437	286	1911	0	251	"	"	"	
	9438	388	1946	0	232	"	"	"	at 2001 S/B# ON AUX 3
	9439	480	2018	0	234	"	"	"	
	9440	582	2053	0	238	"	"	"	
	"	649	2115						GUN#3 ON
	9441	673	2123	0	236	"	"	"	
	"	688	2129						GUN#1 OFF, 3, 84 ON
	9442	778	2159	0	235	"	"	"	
	9443	870	2231	0	260	"	"	"	
	9444	972	2306	0	267	"	"	"	<del>OFF</del>
	"	983	2309						GUN#3 OFF, 1 ON
	9445	1064	2337	0	269	"	"	"	
7 Oct.	9446	1166	0012	0	269	"	"	"	
	9447	1259	0043	0	269	"	"	"	
1978	9448	1361	0118	0	244	"	"	"	
	9449	1453	0149	-0-	252	"	"	"	
	9450	1555	0224	-0-	286	"	"	"	Wrong tape ID should be 9450 reads 9440

R/V ROBERT D. CONRAD

Cruise: 21-14

Line: 213

## RECORDING LOG

MCS

FAEROE Islands

DFS IV

Format: *Seg B*

BPI: 800

Date	Tape #	Shot Point #	Time	Trip Delay <i>min</i>	Depth <i>fms</i>	Pop Rate <i>sec</i>	Samp. Rate <i>sec</i>	Rec. L. <i>sec</i>	Comments
7 Oct. 1979	9451	1647	0256	-0-	292	20.5	4	12000	TPX-1
	9452	1749	0331	-0-	298	"	"	"	
	9453	1841	0402	-0-	281	"	"	"	
	9454	1943	0437	0	268	"	"	"	
	9455	2035	0508	"	253	"	"	"	
	—	2067	0519	—	—	18.5	—	—	speed over ground $\approx$ 5.3 knots
	9456	2139	0541	0	200	"	4	12000	Missed shot 2138
	—	2151	0545	—	—	20.5	—	—	
	9457	2231	0612	0	94	"	4	1200	
	9458	2334	0647	"	85	"	"	"	
	9459	2427	0719	"	80	"	"	"	
	9460	2530	0754	"	90	"	"	"	
	9461	2622	0826	"	82	18.5	"		pop rate 18.5 low cut filters out
	9462	2725	0857	"	83	"	"	"	Missed shot #1 2724
	9463	2817	0926	"	82	20.5	"	"	pop rate 20.5
	9464	2918	1000	"	74	"	"	"	
	9465	3010	1032	"	74	"	"	"	
	9466	3112	1106	"	71	"	"	"	
	9467	3204	1138	"	73	"	"	"	
	9468	3306	1212	"	83	"	"	"	

DFS IV 71  
Format: Seq B  
BPI: 800

FAEROE Islands

[illegible]

2029

1500

2329

# RECORDING LOG

## MCS

R/V ROBERT D. CONRAD

Cruise: 21-14

Line: 214

FAEROR Siltland Channel

DFS IV

Format: Seg B

BPI: 800

Date	Tape #	Shot Point #	Time	Trip Delay msec	Depth fms	Pop Rate sec	Samp. Rate msec	Rec. L. msec	Comments
7 Oct.	9473	*3788	1457	-0-	80	20.5	4	12000	First shot of line is 3788, the
1978	9474	102	1532	-0-	88	"	"	"	following shot is #1, the second
	9475	194	1603	"	87	"	"	"	on tape 9473
	9476	296	1638	"	86	"	"	"	
	9477	388	1709	"	93	"	"	"	1645 4 GUNS IN OPERATION
	9478	490	1744	"	100	"	"	"	1725 GUN # 3 OFF
	9479	582	1816	"	118	"	"	"	1830 GUN PROBLEMS
	9480	684	1851	"	95	"	"	"	1904 GUN # 4 OFF
	9481	776	1922	"	95	"	"	"	
	9482	878	1957	"	101	"	"	"	
	9483	970	2028	"	111	"	"	"	at 2029 S/B# ON AUX 3
	"	1033	2050						GUNS problems stop recording
	"	1058	2058						<del>1000</del> GUNS # 1 & 2 BACK ON Low pressure
	9484	1096	2111	-0-		20.5	4	12000	
	9485	1188	2142	0					
	"	1246	2203						GUNS problems stop recording
	"	1316	2226		caused many ITB;				GUNS # 1 & 2 BACK ON low pressure
	"	1318	2227						GUNS # 1 & 2 OFF
	9486	1537	2342	0	160	20.5	4	12000	
Oct 8	9487	1629	0013	0	165	"	"	"	

# RECORDING LOG

## M C S

R/V ROBERT D. CONRAD

Cruise: 21-14

Line: 214

FAEROE Shelf Land Channel

DFS IV

Format: Seq B

BPI: 800

Date	Tape #	Shot Point #	Time	Trip Delay min	Depth	Pop Rate sec	Samp. Rate min	Rec. L. min	Comments
8	9487 cont.	1666	0026	-0-	165	20.5	4	12000	Gun #1 & #4 on Gun #2 off
Out	9488	1731	0048	-0-	185	"	"	"	
1978	9489	1824	0119	-0-	215	"	"	"	
	9490	1928	0155	-0-	270	"	"	"	Irregular gun shots on tapes 9490 & 9491 caused some Interval time Breaks
	9491	2025	0228	-0-	340	"	"	"	SHOTS # 2022 to 2027 missed, transports
	9492	2129	0304	-0-	373	"	"	"	wouldn't shift.
	9493	2222	0335	-0-	423	"	"	"	
			0345						Gun #2 on Gun #3 off
	9494	2325	0411	0	490	"	"	"	
	9495	2418	0442	"	349	"	"	"	
	9496	2521	0517	"	629	"	"	"	
	9497	2614	0549	"	718	"	"	"	
	9498	2717	0624	"	842	"	"	"	
	-	-	0632	-	843	-	-	-	S.B. # 358 "ON"
	9499	2811	0656	"	844	"	"	"	missed shot #2810
	9500	2914	0731	"	858	"	"	"	
	9501	3006	0803	"	856	"	"	"	SB #358 OFF at 0810
	9502	3108	0838	"	856	"	"	"	SB #359 ON AUX3 at 0815
	9503	3200	0909	"	850	"	"	"	
	9504	3302	0944	"	849	"	"	"	

Line: 214

M C S

BPI: 800

FAROE SHETLAND CHANNEL

[illegible]