

MULTICHANNEL LINE LOG

PAGE NO. 1 of 1

CRUISE RC 25-10LINE NB-1NUMBER OF SHIPS 1THIS SHIP R/V CONRADCDP ✓

COP _____

AIRGUNS 4x466in³

EXPLOSIVES _____

RECEIVING SHIPS

R/V CONRAD

NUMBER OF TRACES

48

GROUP SPACING

50m

SHOOTING SHIPS

R/V CONRAD

SHOT INTERVAL

50m

APPROXIMATE SHOT

TIME (SEC)

20 SEC.LOW CUT FILTER / OUTHIGH CUT FILTER : 62 Hz @ 72/18/82NOTCH FILTER / OUTGAIN MODE : IFP

DATE

TIME
GMT

LATITUDE

LONGITUDE

DATATAPE
NO.LOGTAPE
NO.

START LINE

224 / 11 AUG, '84213144° 26.27' N44° 59.93' W01194

END LINE

226 / 13 AUG, '84082345° 33.94' N48° 46.78' W63197

DISTANCES WHERE APPLICABLE

SHIP

AIRGUN
TO
1ST RECEIVERMINIRANGER
TO
AIRGUNSANTENNA
TO
1ST RECEIVERRADIST
TO
AIRGUNSANTENNA
TO
1ST RECEIVER

MULTICHANNEL LINE LOG

PAGE NO. 2CRUISE RC 25-10LINE NB-2NUMBER OF SHIPS 1THIS SHIP R/V CONRADCDP ✓

COP _____

AIRGUNS 4x466 in³

EXPLOSIVES _____

RECEIVING SHIPS

R/V CONRAD

NUMBER OF TRACES

48

GROUP SPACING

50

SHOOTING SHIPS

R/V CONRADNotch FILTER/out
LOCUT FILTER/out HicUT FILTER/ 62Hz @ 72 db/oct.

SHOT INTERVAL

50m.

APPROXIMATE SHOT

TIME (SEC)

20sec.

	DATE	TIME GMT	LATITUDE	LONGITUDE	DATATAPE NO.	LOGTAPE NO.
START LINE	<u>226/13 Aug '84</u>	<u>0823</u>	<u>45° 33.94' N</u>	<u>48° 46.78' W</u>	<u>64</u>	<u>197</u>
END LINE	<u>226/13 Aug 84</u>	<u>1450Z</u>			<u>76</u>	<u>197</u>

DISTANCES WHERE APPLICABLE

SHIP	AIRGUN TO 1ST RECEIVER	MINIRANGER TO AIRGUNS	ANTENNA TO 1ST RECEIVER	RADIST TO AIRGUNS	ANTENNA TO 1ST RECEIVER
<u>FSHOT NB-2</u>	<u>188</u>	<u>188-999-1-357</u>			
<u>LSHOT NB-2</u>	<u>357</u>				

MULTICHANNEL LINE LOG

PAGE NO. 3...CRUISE RC25-10LINE NB-3NUMBER OF SHIPS 1

THIS SHIP _____

CDP ✓

COP _____

AIRGUNS 4/466 cm³

EXPLOSIVES _____

RECEIVING SHIPS

CONRAD

NUMBER OF TRACES

48

GROUP SPACING

50m

SHOOTING SHIPS

NOTCH / OUTLOCUT / OUTHICUT / 62 Hz @ 72 dB / OCT

SHOT INTERVAL

APPROXIMATE SHOT

TIME (SEC)

DFSIV

① ② ③ ④
TRIGGER 12, 14, 14, 15 in msec.
DELAYS

	DATE	TIME GMT	LATITUDE	LONGITUDE	DATATAPE NO.	LOGTAPE NO.
START LINE	<u>13 AUG 84</u>	<u>1450</u>	<u>45°06.8' N</u>	<u>49°00.75' W</u>	<u>76</u>	<u>197</u>
END LINE	<u>14 AUG 84</u>	<u>0915</u>	<u>44°26.44' N</u>	<u>47°12.33' W</u>	<u>108</u>	<u>199</u>

DISTANCES WHERE APPLICABLE

SHIP	AIRGUN TO 1ST RECEIVER	MINIRANGER TO AIRGUNS	ANTENNA TO 1ST RECEIVER	RADIST TO AIRGUNS	ANTENNA TO 1ST RECEIVER
<u>FSHOT NB3</u>	<u>358 (76)</u>				
<u>LSHOT NB3</u>	<u>660 (108)</u>				

MULTICHANNEL LINE LOG

PAGE NO. 4CRUISE RC25-10LINE NB-4NUMBER OF SHIPS 1THIS SHIP CONRADCDP ✓COP AIRGUNS 4/466in³EXPLOSIVES N/A

RECEIVING SHIPS

CONRAD

NUMBER OF TRACES

48

GROUP SPACING

50DFS IV TRIGGER DELAYS → Gun: ① ② ③ ④
11, 14, 14, 14 in msec.

SHOOTING SHIPS

SHOT INTERVAL

NOTCH FILTER/OUT LOCUT/OUT AICUT/62Hz @ 72db/oct.APPROXIMATE SHOT
TIME (SEC)

	DATE	TIME GMT	LATITUDE	LONGITUDE	DATATAPE NO.	LOGTAPE NO.
START LINE	<u>14 Aug '84</u>	<u>0915Z</u>	<u>44° 26.44' N</u>	<u>47° 12.33' W</u>	<u>109</u>	<u>199</u>
END LINE	<u>15 Aug '84</u>	<u>0609Z</u>	<u>44° 01.85' N</u>	<u>44° 31.70' W</u>	<u>144</u>	<u>201</u>

DISTANCES WHERE APPLICABLE

SHIP	AIRGUN TO 1ST RECEIVER	MINIRANGER TO AIRGUNS	ANTENNA TO 1ST RECEIVER	RADIST TO AIRGUNS	ANTENNA TO 1ST RECEIVER
<u>NB4: FS (109) = 661</u>					
<u>LS (144) = 347</u>					

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	DATE	TIME GMT	LATITUDE	LONGITUDE	DATATAPE NO.	LOGTAPE NO.
START LINE	15 Aug., 1984	0609Z	44° 01.85' N	44° 31.70' W	145	201
END LINE	15 Aug., 1984	0729Z	44° 01.85 07.39' N	44° 27.34' W	148	201

0730Z ↗

SHIP	AIRGUN TO 1ST RECEIVER	MINIRANGER TO AIRGUNS	ANTENNA TO 1ST RECEIVER	RADIST TO AIRGUNS	ANTENNA TO 1ST RECEIVER
NB5 = FS (145) = S.P. 428					
NB5 = LS (148) = S.P. 666					

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CRUISE RC 25-10 LINE NB-6 NUMBER OF SHIPS 1 THIS SHIP CONRAD
 CDP ✓ COP _____ AIRGUNS 4/46 in³ EXPLOSIVES N/A

RECEIVING SHIPS CONRAD _____
 NUMBER OF TRACES 48 _____
 GROUP SPACING 50 _____

SHOOTING SHIPS NOTCH FILTER/OUT LOCUT/OUT Hicut/62 Hz @ 72 db/oct.
 SHOT INTERVAL _____
 APPROXIMATE SHOT TIME (SEC) 20 _____

Trigger Delays (1) 12 (2) 14 (3) 14 (4) 14

	DATE	TIME GMT	LATITUDE	LONGITUDE	DATATAPE NO.	LOGTAPE NO.
START LINE	<u>15 Aug, 1984</u>	<u>0729Z</u>	<u>44° 07.39'N</u>	<u>44° 27.34'W</u> (0730Z)	<u>149</u>	<u>201</u>
END LINE	<u>16 Aug, 1984</u>	<u>0035Z</u>	_____	_____	<u>178</u>	<u>202</u>

DISTANCES WHERE APPLICABLE

SHIP	AIRGUN TO 1ST RECEIVER	MINIRANGER TO AIRGUNS	ANTENNA TO 1ST RECEIVER	RADIST TO AIRGUNS	ANTENNA TO 1ST RECEIVER
<u>NB-6 : Fe(149) = S.P. 667</u>	_____	_____	_____	_____	_____
<u>LS(178) : S.P. 740</u>	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

MULTICHANNEL LINE LOG

PAGE NO. 7...CRUISE RC25-10LINE NB-7NUMBER OF SHIPS 1THIS SHIP CONRADCDP ✓

COP _____

AIRGUNS 4/466 in³EXPLOSIVES N/A2 GUNS ONLY
(#2 + #3)0045-0101

RECEIVING SHIPS

CONRAD

NUMBER OF TRACES

48

GROUP SPACING

50

SHOOTING SHIPS

NOTCH FILTER/OUTLOUT/OUTAKUT/62Hz @ 7²db/odf.

SHOT INTERVAL

—APPROXIMATE SHOT
TIME (SEC)20Trigger Delay① ② ③ ④
12 14 14 14

	DATE	TIME GMT	LATITUDE	LONGITUDE	DATATAPE NO.	LOGTAPE NO.
START LINE	<u>0035Z</u>	<u>16 AUG 84</u>	<u>44° 33.00' N</u>	<u>46° 29.20' W</u>	<u>179</u>	<u>202</u>
END LINE	<u>0456Z</u>	<u>16 AUG 84</u>	<u>44° 22.86' N</u>	<u>46° 52.71' W</u>	<u>186</u>	<u>202</u>

DISTANCES WHERE APPLICABLE

SHIP	AIRGUN TO 1ST RECEIVER	MINIRANGER TO AIRGUNS	ANTENNA TO 1ST RECEIVER	RADIST TO AIRGUNS	ANTENNA TO 1ST RECEIVER
<u>NB-7: FS(179) = S.P. 741</u>					
<u>ie Line NB-7 begins with First Shot on tape 179, shot Point (or File Number)</u>					
<u>LS (186) = S.P. 525</u>					<u>741</u>

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PAGE NO. 8CRUISE CONRAD 25-10 LINE NB-8NUMBER OF SHIPS 1THIS SHIP CONRADCDP ✓COP AIRGUNS 4/466 in³EXPLOSIVES N/A

RECEIVING SHIPS

CONRAD

NUMBER OF TRACES

48

GROUP SPACING

50

SHOOTING SHIPS

NOTCH FILTER/OUT LOCK/OUT HICUT/62 Hz @ 72db/octave

SHOT INTERVAL

 APPROXIMATE SHOT
TIME (SEC)20

Trigger Delays

① ② ③ ④
⑬ ⑭ ⑮

	DATE	TIME GMT	LATITUDE	LONGITUDE	DATATAPE NO.	LOGTAPE NO.
START LINE	<u>0456Z</u>	<u>16 Aug '84</u>	<u>44°22.86'N</u>	<u>46°52.719'W</u>	<u>187</u>	<u>202</u>
END LINE	<u>0622Z</u>	<u>17 Aug. '84</u>	<u>~ 42°18.3'N</u>	<u>~ 47°27.5'W</u>	<u>232</u>	<u>20</u>

N.B. = Line ended because of data logger malfunction.

DISTANCES WHERE APPLICABLE

SHIP	AIRGUN TO 1ST RECEIVER	MINIRANGER TO AIRGUNS	ANTENNA TO 1ST RECEIVER	RADIST TO AIRGUNS	ANTENNA TO 1ST RECEIVER
<u>NB-8</u>	<u>FS/187 = S.P.526</u>				

SONDBUOY #21 @ 19 AUG 84 0430Z SHOT 770 DFS REEL START 228
21 DEAD AT 0442 SHOT 809 204

SB #21A over @ 0450Z SHOT 829 REEL (DFS): 229 DLOGGER REEL 204

MULTICHANNEL LINE LOG

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CRUISE RC25-10LINE NB-9NUMBER OF SHIPS 1THIS SHIP CONRADCDP ✓

COP _____

AIRGUNS 4/466 in³EXPLOSIVES N/A

RECEIVING SHIPS

CONRAD

NUMBER OF TRACES

48

GROUP SPACING

50

SHOOTING SHIPS

CONRAD

SHOT INTERVAL

20 sec.APPROXIMATE SHOT
TIME (SEC)Trigger Delays = ① ② ③ ④
12 13 13 14NOTCH FILTER/OUT LOUT/OUT ACUT/62 Hz @ 72 db/oct.

START SB# 22 DFS REEL 242 SHOT 88 @ 1504z

	DATE	TIME GMT	LATITUDE	LONGITUDE	DATATAPE NO.	LOGTAPE NO.
START LINE	<u>17 August</u>	<u>0925Z</u>	<u>42° 27.160' N</u>	<u>47° 27.584' W</u>	<u>232</u>	<u>—</u>
END LINE	<u>17 August</u>	<u>2311Z</u>	<u>41° 23.50' N</u>	<u>47° 43.0' W</u>	<u>(±.1%)</u>	<u>—</u>

N.B.: Triggering w.o. data logger. Guns firing using an oscillator, DFS-IV triggering on ITB. Delay after gun fire is 2.2 sec + ITB (? = 64 ms) ⇒ Header will not have any data on it.

DISTANCES WHERE APPLICABLE

SHIP	AIRGUN TO 1ST RECEIVER	MINIRANGER TO AIRGUNS	ANTENNA TO 1ST RECEIVER	RADIST TO AIRGUNS	ANTENNA TO 1ST RECEIVER
<u>NB 9 = F.S. 110, tape 232</u>					

→ 213Z Tape 237, S.P. 574 → Back to original recording scheme. Triggering using data logger.

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CRUISE RC 25-10 LINE NB-10 NUMBER OF SHIPS 1 THIS SHIP Conrad
 CDP ✓ COP AIRGUNS 3/466 in 3 EXPLOSIVES N/A
4/466 in 3 20044 Z

RECEIVING SHIPS Conrad
 NUMBER OF TRACES 48
 GROUP SPACING 50

SHOOTING SHIPS Conrad
 SHOT INTERVAL
 APPROXIMATE SHOT TIME (SEC) 20 sec

Trigger Delays ① ② ③ ④
 ⑫ ⑬ ⑭
 Delays 2
 0318 Z
 12-13-14

Low filter/out Hicut filter: 62 Hz @ 72/11/10
 Notch filter/out Gain Mode: IFP

	DATE	TIME GMT	LATITUDE	LONGITUDE	DATATAPE NO.	LOGTAPE NO.
START LINE	<u>17 August '84</u>	<u>2311 Z</u>	<u>41° 43.5' N</u>	<u>47° 43.0' W</u>	<u>257</u>	<u> </u>
END LINE	<u>18 August</u>	<u>2019 Z</u>	<u>40° 12.0' N</u>	<u>49° 06.5' W</u>	<u>294</u>	<u> </u>

DISTANCES WHERE APPLICABLE

SHIP	AIRGUN TO 1ST RECEIVER	MINIRANGER TO AIRGUNS	ANTENNA TO 1ST RECEIVER	RADIST TO AIRGUNS	ANTENNA TO 1ST RECEIVER
<u>NB-10: ES = 547 tape = 257</u>					
<u>L. SHOT = 336 tape # 294</u>					

MULTICHANNEL LINE LOG

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CRUISE RC 25-10 LINE NB-11 NUMBER OF SHIPS 1 THIS SHIP CONRAD
 CDP ✓ COP AIRGUNS 4 x 466
3 x 466 in³ (20192 18 AUG) EXPLOSIVES
2 x 466 (20272 18 AUG)
3 x 466 (20532 18 AUG)

RECEIVING SHIPS CONRAD

NUMBER OF TRACES 48

GROUP SPACING 50

SHOOTING SHIPS CONRAD

SHOT INTERVAL

APPROXIMATE SHOT TIME (SEC) 20 sec

TRIGGER DELAYS #1 GUN OFF, 13, 13, 15
 @ 2057 all guns on 12, 13, 13, 15

LOW FILTER/OUT HICUT FILTER: 62 Hz

NOTCH FILTER/OUT GAIN MODE: IFP

	DATE	TIME GMT	LATITUDE	LONGITUDE	DATATAPE NO.	LOGTAPE NO.
START LINE	<u>18 AUGUST 84</u>	<u>2014</u>	<u>40° 02.82' N</u>	<u>49° 17.17' W</u>	<u>295</u>	
END LINE	<u>19 AUGUST 84</u>	<u>1714</u>	<u>40° 15.24' N</u>	<u>47° 20.93' W</u> <u>23.6' W</u>	<u>332</u>	

DISTANCES WHERE APPLICABLE

SHIP	AIRGUN TO 1ST RECEIVER	MINIRANGER TO AIRGUNS	ANTENNA TO 1ST RECEIVER	RADIST TO AIRGUNS	ANTENNA TO 1ST RECEIVER
<u>NB 11 : FSHOT</u>	<u>337</u>	<u>Tape # 295</u>			
<u>SB 27 : FSHOT</u>	<u>573</u>	<u>TAPE 307</u>	<u>LSHOT 978</u>	<u>TAPE 311</u>	<u>DLOUGER TAPE 209</u>
<u>SB 28 : FSHOT</u>	<u>918</u>	<u>TAPE 321</u>	<u>LSHOT 366</u>	<u>325</u>	
<u>SB 29 : FSHOT</u>	<u>590</u>	<u>TAPE # 328</u>	<u>LSHOT 978</u>	<u>TAPE 331</u>	

CDP ✓

LINE NB-12

NUMBER OF SHIPS 1

THIS SHIP Conrad

COP _____

AIRGUNS 4 x 466 in³ ^{delays} 1 2 3 4 EXPLOSIVES _____

0042 3 x 466 in³ 12 13 15
0113 2 x 466 in³ 12 15

RECEIVING SHIPS Conrad

NUMBER OF TRACES 48

GROUP SPACING 50

SHOOTING SHIPS CONRAD

SHOT INTERVAL 20 S

APPROXIMATE SHOT
TIME (SEC) 20s

0121	$3 \times 466 \text{ in}^3$	12	13	15
0239	$4 \times 466 \text{ in}^3$	12	14	13 15
1003	$3 \times 466 \text{ in}^3$	12	14	13 —
1152	4	12	14	13 15
1202	2 x	12	—	13 —
1335	3	12	14	13
1340	4	12	14	13
1355	3	12	13	
1623	4	13	15	13
1649	4	13	15	13

DATE	TIME GMT	LATITUDE	LONGITUDE	DATATAPE NO.	LOGTAPE NO.
START LINE <u>JD 233/AUG 20</u>	<u>0026</u> <i>straightening official start</i> <i>(0008Z)</i>	<u>40° 15.00' N</u>	<u>47° 27.09' W</u>	<u>335</u>	
END LINE <u>JD 234/AUG. 21</u>	<u>1225Z</u> <i>streamer straight</i>	<u>41° 59.27' N</u>	<u>50° 26.53' W</u>	<u>400</u>	<u>215</u>

DISTANCES WHERE APPLICABLE

SHIP	AIRGUN TO 1ST RECEIVER	MINIRANGER TO AIRGUNS	ANTENNA TO 1ST RECEIVER	RADIST TO AIRGUNS	ANTENNA TO 1ST RECEIVER
[FSHOT 335/file 001 - 0008Z]					
FSHOT 335/055 - 0026					
1039 Data logger crash					
1050 DPS on					
1513-1524 Data logger down ~ 18 shots missed					

CRUISE RC 25-10 STREAMER REPAIR
 LINE NB-12 NUMBER OF SHIPS 1 THIS SHIP _____
 CDP _____ COP _____ AIRGUNS 2 x 46 in³ 1614z 19 AUG EXPLOSIVES _____
 RECEIVING SHIPS CONRAD _____
 NUMBER OF TRACES 48 _____
 GROUP SPACING 50 _____
 SHOOTING SHIPS _____
 SHOT INTERVAL _____
 APPROXIMATE SHOT TIME (SEC) 206 _____

	DATE	TIME GMT	LATITUDE	LONGITUDE	DATATAPE NO.	LOGTAPE NO.
START LINE	<u>19 AUGUST 84</u>	<u>(1814z turn)</u>	<u>1810.334 / SP 240</u>		<u>333</u>	
END LINE		<u>1735 ON COURSE</u>	<u>off for streamer repairs</u>			

DISTANCES WHERE APPLICABLE

SHIP	AIRGUN TO 1ST RECEIVER	MINIRANGER TO AIRGUNS	ANTENNA TO 1ST RECEIVER	RADIST TO AIRGUNS	ANTENNA TO 1ST RECEIVER
<u>① Gun 2 on deck @ 1355Z.</u>					
<u>② SYSTEM CRASH @ 1515Z SHOT 641 - BACK UP @ 1521. MISSED ~ 18 SHOTS. 642 FCSHOT.</u>					

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CRUISE RC 25-10 LINE NB-13 NUMBER OF SHIPS 1 THIS SHIP R/V CONRAD
 CDP ✓ COP _____ AIRGUNS 4 airguns @ 1225z EXPLOSIVES N/A
Compressors down for maintenance @ turn. 1255 3x466in³ Delays 13 15 13 -
 RECEIVING SHIPS R/V CONRAD 1430 4x466in³ 13 15 13 15
 NUMBER OF TRACES 48 1714 13 15 13 16
 GROUP SPACING 50m _____
 SHOOTING SHIPS R/V CONRAD LOCUT FILTER/out Hicut FILTER 62Hz @ 72db/oct.
 SHOT INTERVAL 50m. _____
 APPROXIMATE SHOT TIME (SEC) 20sec. _____

	DATE	TIME GMT	LATITUDE	LONGITUDE	DATATAPE NO.	LOGTAPE NO.
START LINE	<u>1225z/21 Aug.</u> (234)		<u>41° 59.27' N</u>		<u>401</u>	<u>215</u>
END LINE	<u>0154z/22 Aug.</u> (235)		<u>42° 02.2' N</u>	<u>50° 26.53' W</u> <u>48 49.28' W</u>	<u>424</u>	<u>215</u>

DISTANCES WHERE APPLICABLE

SHIP	AIRGUN TO 1ST RECEIVER	MINIRANGER TO AIRGUNS	ANTENNA TO 1ST RECEIVER	RADIST TO AIRGUNS	ANTENNA TO 1ST RECEIVER
<u>F/SHOT / file 001 tape 401, 1225z</u>					
<u>L/SHOT / file 858 tape 424</u>					
<u>1429z Com # 4 back online</u>					

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CRUISE RC25-10 LINE NB-14 NUMBER OF SHIPS 1 THIS SHIP R/V CONRAD
 CDP ✓ COP _____ AIRGUNS 4/466 in³ Delays EXPLOSIVES N/A
 RECEIVING SHIPS R/V CONRAD
 NUMBER OF TRACES 48
 GROUP SPACING 50m
 SHOOTING SHIPS R/V CONRAD Locut / out 62Hz
 SHOT INTERVAL 50m Hicut / ~~100~~ ramping @ 72db/oct.
 APPROXIMATE SHOT TIME (SEC) 20sec.

	DATE	TIME GMT	LATITUDE	LONGITUDE	DATATAPE NO.	LOGTAPE NO.
START LINE	<u>22 Aug (235)</u>	<u>0154Z</u>	<u>42°02.2'N</u>	<u>48°49.28'W</u> (<u>set DR - not very accurate</u>)	<u>425</u>	<u>215</u>
END LINE	<u>23 Aug (236)</u>	<u>0236Z</u>	<u>40°34.0'N</u>	<u>46°59.32'W</u>	<u>474</u>	

DISTANCES WHERE APPLICABLE

SHIP	AIRGUN TO 1ST RECEIVER	MINIRANGER TO AIRGUNS	ANTENNA TO 1ST RECEIVER	RADIST TO AIRGUNS	ANTENNA TO 1ST RECEIVER
<u>F/s tape #425, S.P. 859 D 0156</u>			<u>L/S = tape #474, S.P. 258.</u>		
<u>1556Z</u>	<u>DOWN TO 1 DRIVE (TPX-1)</u>				
<u>1747</u>	<u>2 Drives up & running</u>				
<u>1830 (TAPE 459)</u>	<u>SHOT 815 - 1st shot on SB 36</u>				

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CRUISE RC25-10 LINE NB-15 NUMBER OF SHIPS 1 THIS SHIP CONRAD
 CDP ✓ COP AIRGUNS 4/46 in³ EXPLOSIVES N/A
 (2/46 in³ during initial turn) - GMT
 RECEIVING SHIPS CONRAD 0238 2x 46 in³ 14 13 -
 NUMBER OF TRACES 48 0300 4x 46 in³ 15 14 13 15
 GROUP SPACING 30m. 1534 16 14 13 15
 237 0555 15 14 13 15
 SHOOTING SHIPS CONRAD Locut / out Hicut / 62 Hz @ 72 db/octave
 SHOT INTERVAL 20 sec / 50m.
 APPROXIMATE SHOT TIME (SEC)

	DATE	TIME GMT	LATITUDE	LONGITUDE	DATATAPE NO.	LOGTAPE NO.
START LINE	<u>23 Aug / J.D. 235</u>	<u>0236Z</u>	<u>40° 34.00' N</u>	<u>46° 59.32' W</u>	<u>475</u>	
END LINE	<u>24 Aug / J.D. 236</u>	<u>0030Z</u>	<u>42° 06.02' N</u>	<u>45° 56.21' W (sat)</u>	<u>513</u>	

(0118Z)

DISTANCES WHERE APPLICABLE

SHIP	AIRGUN TO 1ST RECEIVER	MINIRANGER TO AIRGUNS	ANTENNA TO 1ST RECEIVER	RADIST TO AIRGUNS	ANTENNA TO 1ST RECEIVER
<u>F/S = tape #475, S.P. 259</u>			<u>L/S : tape #513, S.P. 191</u>		
<u>0329</u>	<u>476 / SP #418 steady on line</u>				
<u>START SB #39 @ 1502Z SHOT 498 TAPE 496</u>					
<u>START SB #42 @ 0910 SHOT 706 TAPE 529</u>					

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CRUISE RC25-10LINE NB-16NUMBER OF SHIPS 1THIS SHIP CONRADCDP ✓

COP _____

AIRGUNS 4/466 in³EXPLOSIVES N/A

RECEIVING SHIPS

CONRAD

NUMBER OF TRACES

48

GROUP SPACING

50m

SHOOTING SHIPS

CONRAD

SHOT INTERVAL

50mAPPROXIMATE SHOT
TIME (SEC)20 sec.LOCUT/OUT Hicut/62 Hz ramping @ 72db/oct.

	DATE	TIME GMT	LATITUDE	LONGITUDE	DATATAPE NO.	LOGTAPE NO.
START LINE	<u>0030Z, 24 AUG</u>	<u>(I.D. 237)</u>	<u>42° 06.02' N</u>	<u>45° 56.21' W (sat @ 0118Z)</u>	<u>514</u>	
END LINE	<u>1630Z, 24 AUG</u>	<u>237</u>				

DISTANCES WHERE APPLICABLE

SHIP	AIRGUN TO 1ST RECEIVER	MINIRANGER TO AIRGUNS	ANTENNA TO 1ST RECEIVER	RADIST TO AIRGUNS	ANTENNA TO 1ST RECEIVER
<u>F/s = tape #514, S.P. 192</u>			<u>4/s = tape #542, S.P. 028</u>	<u>2 1630Z</u>	

MULTICHANNEL LINE LOG

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CRUISE RC25-10LINE NB-17NUMBER OF SHIPS 1THIS SHIP CONRADCDP ✓

COP _____

AIRGUNS 4 x 466 in 3Delays 1 2 3 4
EXPLOSIVES _____1 compr. 3 x 466 in 315 13 12 -1705 3 x 4661 2 3 4
12 12 - 13

RECEIVING SHIPS

CONRAD0310 4 x 466 in 315 13 12 13

NUMBER OF TRACES

480031 2 x 466- 13 12 -0044 3- 15 13 12 -

GROUP SPACING

501506 guns 184 down1542 4 guns online1856 4 GUNS BACK (Tape 590)
21442 lost pressure SHOT 773
21532 guns 1 + 4 firing +
partially #2; delays 11, 13, 13

SHOOTING SHIPS

CONRADLOCUT/OUTHicut / 62 Hz @ 72 db/octave

SHOT INTERVAL

50m

APPROXIMATE SHOT

TIME (SEC)

20s

DATE

237 24 Aug

TIME

GMT

LATITUDE

LONGITUDE

DATATAPE
NO.LOGTAPE
NO.

START LINE

1630163043° 19.60 N45° 32.756 WTape 543 / 029 file 222

END LINE

239 26 Aug032843° 52.29' N49° 03.96' W605 / 309

DISTANCES WHERE APPLICABLE

SHIP	AIRGUN TO 1ST RECEIVER	MINIRANGER TO AIRGUNS	ANTENNA TO 1ST RECEIVER	RADIST TO AIRGUNS	ANTENNA TO 1ST RECEIVER
<u>MCS</u>	_____	_____	_____	_____	_____
<u>FSHOT Tape #543 file #029</u>	<u>D 1630z</u>	_____	_____	_____	_____
<u>LSHOT Tape #605 file #309</u>	<u>D 0327z</u>	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

MULTICHANNEL LINE LOG

PAGE NO. 18...

CRUISE RC25-10LINE NB-18NUMBER OF SHIPS 1THIS SHIP CONRADCDP ✓

COP _____

AIRGUNS 4 x 46 in³ ① Delays
239 03282 11 12 12 13

EXPLOSIVES _____

RECEIVING SHIP CONRADNUMBER OF TRACES 48 (#25 dead)GROUP SPACING 50mSHOOTING SHIPS CONRADSHOT INTERVAL 20s/50mAPPROXIMATE SHOT
TIME (SEC) _____LOUT/OUTHicut / 62 Hz ramping @ 72 db/octave

	DATE	TIME GMT	LATITUDE	LONGITUDE	DATATAPE NO.	LOGTAPE NO.
START-LINE	<u>AUG 26 / 239</u>	<u>0328</u>	<u>43° 52.29' N</u>	<u>49° 03.96' W</u>	<u>606</u>	_____
END LINE	<u>26 AUG. / 239</u>	<u>0911</u>	<u>43° 29.11' N</u>	<u>48° 47.65' W</u>	<u>615</u>	_____

DISTANCES WHERE APPLICABLE

SHIP	AIRGUN TO 1ST RECEIVER	MINIRANGER TO AIRGUNS	ANTENNA TO 1ST RECEIVER	RADIST TO AIRGUNS	ANTENNA TO 1ST RECEIVER
FSHOT TAPE# <u>606</u>	FILE# <u>310</u>	_____	_____	_____	_____
LSHOT <u>615</u>	<u>335</u>	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

	DATE	TIME GMT	LATITUDE	LONGITUDE	DATATAPE NO.	LOGTAPE NO.
START LINE	26 August / 239	0911 Z	43° 29.11' N	48° 47.65' W	616	
END LINE	27 Aug / 240	1847 Z	42° 11.158 N	45° 37.630 W	678	

DISTANCES WHERE APPLICABLE

SHIP		AIRGUN TO 1ST RECEIVER	MINIRANGER TO AIRGUNS	ANTENNA TO 1ST RECEIVER	RADIST TO AIRGUNS	ANTENNA TO 1ST RECEIVER
F/S	Type # 616	S.P. 336				
L/S	678	372				

MULTICHANNEL LINE LOG

PAGE NO. 26

CRUISE RC25-10LINE NB-20NUMBER OF SHIPS 1THIS SHIP ConradCDP ✓

COP _____

AIRGUNS 4/466 in³ airgunsEXPLOSIVES N/A

RECEIVING SHIPS

CONRAD

NUMBER OF TRACES

48 (25 DEAD)

GROUP SPACING

50m

SHOOTING SHIPS

CONRAD

SHOT INTERVAL

50mAPPROXIMATE SHOT
TIME (SEC)20 secLO CUT / OUT //41 CUT / 62 HZ DAMPING @ 72 db / of

DATE

TIME
GMT

LATITUDE

LONGITUDE

DATATAPE
NO.LOGTAPE
NO.

START LINE

27 Aug / 2401847 Z42° 11.158' N45° 37.630' N (DR)679

END LINE

28 Aug / 2410140 Z41° 43.737' N45° 58.737' (SAT.)691Fix @ 0136 Z

DISTANCES WHERE APPLICABLE

SHIP	AIRGUN TO 1ST RECEIVER	MINIRANGER TO AIRGUNS	ANTENNA TO 1ST RECEIVER	RADIST TO AIRGUNS	ANTENNA TO 1ST RECEIVER
<u>Tape #</u>	<u>SP.</u>				
<u>F/S 679</u>	<u>373</u>				
<u>L/S 691</u>	<u>613</u>				

MULTICHANNEL LINE LOG

PAGE NO. 21...

CRUISE RC25-10 LINE NB-21 NUMBER OF SHIPS 1 THIS SHIP CONRAD
 CDP ✓ COP AIRGUNS 4/Aldo in 3 Delays EXPLOSIVES N/A
 (2 until 0205Z) 10/12/11/12

RECEIVING SHIPS CONRAD
 NUMBER OF TRACES 48 (25 dead)
 GROUP SPACING 50m

SHOOTING SHIPS CONRAD LOCUT - OUT Height / 62 Hz ramping @ 72db/octave
 SHOT INTERVAL 50m
 *APPROXIMATE SHOT TIME (SEC) 20sec.

	DATE	TIME GMT	LATITUDE	LONGITUDE	DATATAPE NO.	LOGTAPE NO.
START LINE	<u>28 Aug/241</u>	<u>0140Z</u>	<u>41°43.737'N</u>	<u>45°58.737'W (sat fix @ 0136Z)</u>	<u>692</u>	
END LINE	<u>29 Aug/242</u>	<u>1235Z</u>	<u>43°17.787</u>	<u>49°25.192'W (DE)</u>	<u>753</u>	

DISTANCES WHERE APPLICABLE

SHIP	AIRGUN TO 1ST RECEIVER	MINIRANGER TO AIRGUNS	ANTENNA TO 1ST RECEIVER	RADIST TO AIRGUNS	ANTENNA TO 1ST RECEIVER
<u>F/S = Tape</u>	<u>S.P.</u>				
<u>692</u>	<u>614</u>				
<u>L/S = 753</u>	<u>894</u>				

PAGE NO. . 22.

	DATE	TIME GMT	LATITUDE	LONGITUDE	DATATAPE NO.	LOGTAPE NO.
START LINE	<u>29 AUG/242</u>	<u>1235Z</u>	<u>43° 17.787' N</u>	<u>49° 25.192' W</u>	<u>754</u>	<u>232</u>
END LINE	<u>30 AUG/243</u>	<u>0000Z</u>	<u>42° 24.957' N</u>	<u>49° 13.528' W</u>	<u>773</u>	

SHIP	AIRGUN TO 1ST RECEIVER	MINIRANGER TO AIRGUNS	ANTENNA TO 1ST RECEIVER	RADIST TO AIRGUNS	ANTENNA TO 1ST RECEIVER
F/S = ^{Tape} 754	S.P. 895				
L/S = 773	935				

MULTICHANNEL LINE LOG

PAGE NO. 23CRUISE RC 25/10LINE NO-23NUMBER OF SHIPS 1THIS SHIP CONRADCDP ✓

COP _____

AIRGUNS 4*466 in³EXPLOSIVES N/A

RECEIVING SHIPS

CONRAD

NUMBER OF TRACES

48 (#25 dead)

GROUP SPACING

50m

SHOOTING SHIPS

CONRADLOCUT/OUTHICUT/62 Hzramping @ 72 db/oct

SHOT INTERVAL

50mAPPROXIMATE SHOT
TIME (SEC)20 sec

	DATE	TIME GMT	LATITUDE	LONGITUDE	DATATAPE NO.	LOGTAPE NO.
START LINE	<u>30 AUG/243</u>	<u>0000Z</u>	<u>42° 24.957'N</u>	<u>49° 13.528'W</u>	<u>774</u>	<u>232</u>
END LINE	<u>30 AUG/243</u>	<u>2002Z</u>	<u>41° 28.253'N</u>	<u>47° 07.875'W</u>	<u>809</u>	<u>234</u>

DISTANCES WHERE APPLICABLE

SHIP	AIRGUN TO 1ST RECEIVER	MINIRANGER TO AIRGUNS	ANTENNA TO 1ST RECEIVER	RADIST TO AIRGUNS	ANTENNA TO 1ST RECEIVER
<u>Tap @</u>	<u>3.0</u>				
<u>F/S =</u>	<u>774</u>	<u>936</u>			
<u>L/S</u>	<u>809</u>	<u>527</u>			

MULTICHANNEL LINE LOG

PAGE NO. 24..CRUISE RC 25/10LINE NB-24NUMBER OF SHIPS 1THIS SHIP CONRADCDP ✓

COP _____

AIRGUNS 4 x 466 in³EXPLOSIVES N/A

RECEIVING SHIPS

CONRAD

NUMBER OF TRACES

48 (#25 dead)

GROUP SPACING

50m

SHOOTING SHIPS

CONRADLOCUT/OUTHICUT/62 Hzramping @ 72 dB/oct

SHOT INTERVAL

50m

APPROXIMATE SHOT

TIME (SEC)

20 sec

	DATE	TIME GMT	LATITUDE	LONGITUDE	DATATAPE NO.	LOGTAPE NO.
START LINE	<u>30 AUG/243</u>	<u>2002Z</u>	<u>41°28.253'N</u>	<u>47°07.875'W</u>	<u>810</u>	<u>234</u>
END LINE	<u>31 AUG/244</u>	<u>0030Z</u>	<u>41°41.32'N</u>	<u>46°51.28'W</u>	<u>817</u>	<u>234</u>

DISTANCES WHERE APPLICABLE

SHIP	AIRGUN TO 1ST RECEIVER	MINIRANGER TO AIRGUNS	ANTENNA TO 1ST RECEIVER	RADIST TO AIRGUNS	ANTENNA TO 1ST RECEIVER
<u>Type S.P.</u>					
<u>F/S = 810</u>	<u>528</u>				
<u>L/S = 817</u>	<u>331</u>				

MULTICHANNEL LINE LOG

PAGE NO. 25CRUISE BC 25-10LINE NB-25NUMBER OF SHIPS 1THIS SHIP R/V CONRADCDP ✓

COP _____

AIRGUNS 4x46 in³EXPLOSIVES N/A

RECEIVING SHIPS

CONRAD

NUMBER OF TRACES

48

GROUP SPACING

50m

SHOOTING SHIPS

CONRADLOCUT/OUTHICUT/62HzRAMPING @ 72 db/oct

SHOT INTERVAL

50mAPPROXIMATE SHOT
TIME (SEC)20sec

	DATE	TIME GMT	LATITUDE	LONGITUDE	DATATAPE NO.	LOGTAPE NO.
START LINE	<u>31 AUG/244</u>	<u>0030Z</u>	<u>41°4.32'N</u>	<u>46°51.28'W</u>	<u>818</u>	<u>234</u>
END LINE	<u>31 AUG/244</u>	<u>1155Z</u>	<u>42°20.37'N</u>	<u>47°53.38'W</u>	<u>837/S.P.</u>	<u>354</u>

DISTANCES WHERE APPLICABLE

SHIP	AIRGUN TO 1ST RECEIVER	MINIRANGER TO AIRGUNS	ANTENNA TO 1ST RECEIVER	RADIST TO AIRGUNS	ANTENNA TO 1ST RECEIVER
<u>F/S 1</u>	<u>SP</u>				
<u>818</u>	<u>332</u>				
<u>H/S 1</u>	<u>354</u>				
<u>837</u>					

MULTICHANNEL LINE LOG

PAGE NO. 26

CRUISE RC 25-10LINE NB-25 26NUMBER OF SHIPS 1THIS SHIP CONRADCDP ✓

COP _____

AIRGUNS 4x 466 in³EXPLOSIVES N/A

Trigger delays = 12, 11, 10, 11

RECEIVING SHIPS

CONRAD

NUMBER OF TRACES

48 (#25 dead)

GROUP SPACING

50m.

SHOOTING SHIPS

CONRADLocut/out41cut/62 Hz ramping @ 72 db/oct.

SHOT INTERVAL

50m.Notch/outAPPROXIMATE SHOT
TIME (SEC)20 sec.

	DATE	TIME GMT	LATITUDE	LONGITUDE	DATATAPE NO.	LOGTAPE NO.
START LINE	<u>31 Aug/244</u>	<u>1155Z</u>	<u>42° 20.37' N</u>	<u>47° 53.38' W</u>	<u>838</u>	
END LINE	<u>1 Sept 84</u>	<u>1538Z</u>	<u>44° 38' N</u>	<u>47° 14.1' W</u>	<u>887</u>	

DISTANCES WHERE APPLICABLE

SHIP	AIRGUN TO 1ST RECEIVER	MINIRANGER TO AIRGUNS	ANTENNA TO 1ST RECEIVER	RADIST TO AIRGUNS	ANTENNA TO 1ST RECEIVER
<u>F/S = Tape</u>	<u>S.P.</u>				
<u>838</u>	<u>366</u>				

PAGE NO.

THIS SHIP Conrad

EXPLOSIVES

#1 down for maint. EXPLOSI
for approx 2 hrs.
at beginning of this line

TRIGER 11/11/10/12

52 (4 aux, 48 data, # 25 dead)

1630 Gun #1 on; #4 off

1700 Gun #1 off, #4 on.

1805 - 4 GUNS ON!

Conrad Locut/out Notch/out anti-alias 62 Hz at 72 dB/octave

50 m

20 sec.

LOGTAPE
NO.

START LINE 1538 Z 1 SEPTEMBER 84 44°38.00' N

47° 14.10' W λ

887

END LINE 0530Z 2 September '84 44° 55.10' N

47°40.27' W

911

DISTANCES WHERE APPLICABLE

ANTENNA
TO
1ST RECEIVER

FSHOT

TARE

SHOT

887

351

LSHOT

911

840

MULTICHANNEL LINE LOG

PAGE NO. 28CRUISE RC25-10LINE NB-28NUMBER OF SHIPS 1THIS SHIP CONRADCDP ✓

COP _____

AIRGUNS 4x466 in 3
11/11/13 @ S.O.L.EXPLOSIVES N/A

RECEIVING SHIPS

CONRAD

NUMBER OF TRACES

data = 48 (25 dead) (4 aux / #1 + #4 for sonobuoys)

GROUP SPACING

50m

SHOOTING SHIPS

CONRADLow cut / out Notch / out anti-alias 62 Hz ramping @ 72 db / oct.

SHOT INTERVAL

50m.APPROXIMATE SHOT
TIME (SEC)20sec.

	DATE	TIME GMT	LATITUDE	LONGITUDE	DATATAPE NO.	LOGTAPE NO.
START LINE	<u>05302</u>	<u>2 September 84</u>	<u>44° 55.10' N</u>	<u>47° 40.27' W</u>	<u>912</u>	
END LINE	<u>017227</u>	<u>2 September 84</u>	<u>44° 37.316 N</u>	<u>48° 32.309 W</u>	<u>241</u>	

DISTANCES WHERE APPLICABLE

SHIP	AIRGUN TO 1ST RECEIVER	MINIRANGER TO AIRGUNS	ANTENNA TO 1ST RECEIVER	RADIST TO AIRGUNS	ANTENNA TO 1ST RECEIVER
<u>F/S = Tape</u>	<u>File</u>				
<u>912</u>	<u>841</u>				
<u>L/S = 932</u>	<u>978</u>				

MULTICHANNEL LINE LOG

PAGE NO. 29..

CRUISE 25-10 LINE NB-29 NUMBER OF SHIPS 1 THIS SHIP CONRAD
 CDP ✓ COP _____ AIRGUNS 4 x 466 in³ EXPLOSIVES N/A
1724 2 x 466
1743 4 x 466 11/11/11/13
1890 3 x 466 (Gun #2 down)
 RECEIVING SHIPS CONRAD 9/13/84 0446 #3 Gun down
 NUMBER OF TRACES 48 (25 dead)
 GROUP SPACING 50m.
 SHOOTING SHIPS CONRAD LOCUT/OUT NOTCH/OUT Hicut/62Hz ramping @
50m 72 db/oct.
 SHOT INTERVAL _____
 APPROXIMATE SHOT TIME (SEC) 20 sec

	DATE	TIME GMT	LATITUDE	LONGITUDE	DATATAPE NO.	LOGTAPE NO.
START LINE	<u>1722Z</u>	<u>2 SEPTEMBER '84</u>	<u>44° 37.316'N</u>	<u>48° 32.309'W</u>	<u>933 933</u>	<u>241</u>
END LINE	<u>0540Z</u>	<u>3 SEPTEMBER '84</u>	<u>43° 33.10'N</u>	<u>48° 20.06'W (Dr)</u>	<u>954</u>	<u>242</u>

DISTANCES WHERE APPLICABLE

SHIP	AIRGUN TO 1ST RECEIVER	MINIRANGER TO AIRGUNS	ANTENNA TO 1ST RECEIVER	RADIST TO AIRGUNS	ANTENNA TO 1ST RECEIVER
<u>F/SHOT</u> TAPE <u>933</u> FILE <u>979</u>					
<u>L/SHOT</u> TAPE <u>954</u> FILE <u>107</u>					

MULTICHANNEL LINE LOG

PAGE TWO...

CRUISE 25-10 LINE NB-30 NUMBER OF SHIPS 1 THIS SHIP CONRAD
 CDP ✓ COP AIRGUNS 3 X 466 in³ EXPLOSIVES N/A
 (#3 down for maintenance) Initial Trigger Delays = 11/10/-13

RECEIVING SHIPS CONRAD
 NUMBER OF TRACES 48 (25 dead)
 GROUP SPACING 50m.

SHOOTING SHIPS CONRAD LOCUT/OUT NOTCH/OUT HICUT 62 Hz @ ramping @
 SHOT INTERVAL 50m. 72 db/oct.
 APPROXIMATE SHOT TIME (SEC) 20 sec.

	DATE	TIME GMT	LATITUDE	LONGITUDE	DATATAPE NO.	LOGTAPE NO.
START LINE	<u>3 SEPT 247</u>	<u>0540Z</u>	<u>43° 33.165N</u>	<u>48° 20.045W</u>	<u>955</u>	<u>242</u>
END LINE	<u>3 SEPT 247</u>	<u>0742Z</u>	<u>43° 23.147N</u>	<u>48° 23.293W (DR)</u>	<u>958</u>	<u>242</u>

DISTANCES WHERE APPLICABLE

SHIP	AIRGUN TO 1ST RECEIVER	MINIRANGER TO AIRGUNS	ANTENNA TO 1ST RECEIVER	RADIST TO AIRGUNS	ANTENNA TO 1ST RECEIVER
<u>F/S</u> <u>Tape</u> <u>955</u>	<u>File</u> <u>198</u>				
<u>L/S</u> <u>958</u>	<u>564</u>				

MULTICHANNEL LINE LOG

CRUISE RC25-10 LINE NB-31 NUMBER OF SHIPS 1 THIS SHIP CONRAD
 CDP ✓ COP AIRGUNS 3x46 in 3 (#3 out) EXPLOSIVES N/A
 (0840Z 2x46 in 3 (2 & 4 only)
 (0910Z 1x46 in 3 (#4 only)
 RECEIVING SHIPS CONRAD Trigger Delays = 11/10/-/13
 NUMBER OF TRACES 48 (25 dead) 1706 3x466 AG (1830 A GUN) # 4:11 → 12 ms
 1831 4x466 AG
 1918 3x466 (#2 out)
 GROUP SPACING 50m 13/10/11/11

SHOOTING SHIPS CONRAD LOCUT/OUT NOTCH/OUT Hicut/62 Hz ramping @ 72 db
 SHOT INTERVAL 50m. oct.
 APPROXIMATE SHOT TIME (SEC) 20sec.

	DATE	TIME GMT	LATITUDE	LONGITUDE	DATATAPE NO.	LOGTAPE NO.
START LINE	<u>3 SEPT / 247</u>	<u>0742z</u>	<u>43° 23.147' N</u>	<u>48° 23.293' W</u>	<u>9589</u>	<u>242</u>
END LINE	<u>4 SEPT / 248</u>	<u>0610z</u>	<u>41° 44.538' N</u>	<u>48° 53.865' W</u>	<u>998</u>	<u>244</u>

DISTANCES WHERE APPLICABLE

SHIP	AIRGUN TO 1ST RECEIVER	MINIRANGER TO AIRGUNS	ANTENNA TO 1ST RECEIVER	RADIST TO AIRGUNS	ANTENNA TO 1ST RECEIVER
<u>F/S =</u>	<u>File</u>				
<u>959</u>	<u>565</u>				
<u>L/S =</u>	<u>587</u>				
<u>988</u>					

C 25-10LINE NB-32NUMBER OF SHIPS 1THIS SHIP CONRADCDP ✓

COP _____

AIRGUNS 4x466 in³EXPLOSIVES N/A

Delays = 13/01/11 (#1 → #4)

RECEIVING SHIPS

CONRAD

NUMBER OF TRACES

48 (25 dead)

GROUP SPACING

50m

SHOOTING SHIPS

CONRADLOCUT/OUT NOTCH/OUT Hcut/62 Hz ramping @ 72 db/oct.

SHOT INTERVAL

~ 50m.

APPROXIMATE SHOT

20 sec.

TIME (SEC)

	DATE	TIME GMT	LATITUDE	LONGITUDE	DATATAPE NO.	LOGTAPE NO.
START LINE	<u>0610Z / 4 Sept. (J.D. 248)</u>		<u>41° 44.538' N</u>	<u>48° 53.855' W (DR)</u>	<u>999</u>	<u>244</u>
END LINE	<u>1402Z 4 SEPT (248)</u>		<u>41° 10.219 N</u>	<u>49° 19.097 W</u>	<u>1012</u>	<u>1012</u>

294

DISTANCES WHERE APPLICABLE

SHIP	AIRGUN TO 1ST RECEIVER	MINIRANGER TO AIRGUNS	ANTENNA TO 1ST RECEIVER	RADIST TO AIRGUNS	ANTENNA TO 1ST RECEIVER
<u>F/s =</u>	<u>Tape</u> <u>999</u>	<u>S.R.</u> <u>588</u>			
<u>45 =</u>	<u>1012</u>	<u>3</u>			