

EW92 07

Jd 158

06 June 1992

- 2011Z Streamer going out; Bridge reports that tail buoy radio beacon is visible.
- 2141Z streamer section has been replaced, testing incomplete. 50 m discrepancy in depth readings from profiler D to other sources (Furuno, OLIVE, etc.)
- 2240Z Began calibrating depth transducers, center-deck video ~~sensor~~ camera unfocused.

Jd 159 07 JUN 92

- 0812Z Bridge reports ETA @ worksite 8:30 local time (1230 GMT = 1230Z).
- 0925Z Bottom profiler program switch needed - abrupt change.
- 1151Z Bottom profiler changed to 4500-5250 range
- 1740Z PRESSURE TO BE MADE = 2000 PSI IN 20 MINUTES
- 2020Z Problem observed in 3-D DGPS Nav system: 6 sat. vis. 0 sat. tracked
- 2051Z Gun controller is back up & working.
- 2140Z DGPS NAV SYSTEM BACK ON LINE
- 2203Z DGPS DOWN for about 40 sec., back on line at 2204
Tail buoy launched, streamer deployed.
- Jd 160 08 JUN 92
- 0650Z Test firing guns on time.

EW9207

jd 160

08 JUN 92

0703 Finished test firing/recording
shot at 12 sec rep rate
tried shooting on distance - didn't work

gunners to work on adjustment of towing
positions

Gun 1 fires early + late. Gun 5 does not
show indication of firing

DGPS updates stopped several times for
1 to 6 minutes

0814 DGPS goes down

0816 DGPS back on line

0824 DGPS down again

0827 DGPS on line again

0831 DGPS down

10427 DGPS on line

11202 GUNS STOPPED - STREAMER COMPASS ACQUISITION FAILED
FIRING
BAD CAN 017
BAD CAN 018

1135Z GPS 4200 off line

1153Z TURNING DELAYED...

1157Z 10° SKED TURN

1228 Z stopped shooting

Gun depths 160 12 28 Z Steaming east to west

Gun # depth

1 4.9m

3 5.3m

5 5.0m

7 4.0m

9 6.0m

12 4.1m

14 14'

16 21'

18 13'

20 16'

EW 9207 j0 160 08 JUN 92

1324z 4200 DGPS on line logging again

1416z START TAKING IN STREAMER

1710z DGPS down - switched to 2nd I/F converter in radio room. 2nd ok, original does not sync. Left on "spare" I/F converter. mw

1930z Streamer out

1943z Beginning turn to right

2027z DGPS Brief failure 17 sec. duration

2030z - Have deduced a problem exists in con #11, telemetry failure noted. Plans are being made to pull in streamer and switch out con #11

2105 - streamer begins coming in

2145z - replaced can 00011

2355z - STREAMER OUT

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JD 161

09 JUNE 1992

~0000Z START TURN

0015Z end turn, new course 090

0057Z 4200 DGPS NOT UPDATING ON LOGGER

0102Z 4200 DGPS BACK UP ON LOGGER

0146Z slowing down to 3K to pull cable

0437Z increase speed ^{4.3K} to pull up cable - too deep

0446Z Changing course to 270°

Logged gun depths are in meters for guns
1, 3, 5, 7, 9 12 and feet for 14, 16, 18 + 20

0528Z started shooting tests

0544Z 80 ci gun had an air hose leak

0556Z Completed turn 180° 5 kts.

0612Z Ready to begin 90° turn to SOL

0638Z Ready for final turn let bridge know when guns
in water + then will pump up speed.

0700Z Tried to begin Line 196. Nav Block Incomplete

0712Z Guns begin to fire

0734Z Line 196 terminated because of air leak.

0750Z Pulling Gun 3 + possibly gun 7

0832Z Rain begins

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0904 - Rain has ceased, head of streamer noted shallow:
 $05 \leq \text{depth} \leq 10$.

1018 - began line 196

1029 - gun 18 not firing

1031Z - gun 18 firing again

1035Z - gun 18 not firing

1035Z - gun 1 is sporadically early or late

1038Z - pulling gun 18

1040Z - gun 1 looks better?? maybe not

1058Z - ~~NAV~~ NAV BLOCK INCOMPLETE

10:58:06 SP Ø F184

10:58:21 SP 1208 F185

1101Z - ONE TAPE HOLDS ~200 SP
 CHANGED TAPE

1128Z - #1 #3 #5 #7 #9 #11 #13
 14 22 21 19 14 10

1145Z - #1 #3 #5 #7 #11 #13
 13 21 23 19 14 10

1159Z - #1 #3 #5 #7 #11 #13
 13 20 21 18 13 11

1202 Z - NAV BLOCK INCOMPLETE ~~beginning~~ beginning at F0476,
 system crashed, back on at F 0494

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1211 Z Gun #20 goes from E to L

#1	#3	#5	#7	#11	#13
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1214 Z	12	20	21	16	12	8
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1222 Z Gun #1 at L, Gun #20 at E/L fairly consistently

#1	#3	#5	#7	#11	#13
----	----	----	----	-----	-----

1229 Z	13	20	21	18	13	9
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1230 Z Gun #18 begins firing

#1	#3	#5	#7	#11	#13
----	----	----	----	-----	-----

1244 Z	13	21	21	21	19	14
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1253 Z Gun #1 not firing

1255 Z Gun #1 firing again, then stopped again

1258 Z guns stopped firing

1300 Z	#1	#3	#5	#7	#11	#13
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	13	24	24	21	17	13
--	----	----	----	----	----	----

1304 Z guns firing again - missed several minutes of data,
Gun #1 not firing1306 Z guns stopped firing - navigation problem, file # 0748 ~~XXXXXXXXXX~~

#1	#3	#5	#7	#11	#13
----	----	----	----	-----	-----

1314 Z	13	21	22	21	17	12
--------	----	----	----	----	----	----

1329 Z EOL 196

#1	#3	#5	#7	#11	#13
----	----	----	----	-----	-----

	13	20	22	18	15	9
--	----	----	----	----	----	---

1354 Z	11	#3	#5	#7	#11	#13
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	3	7	11	21	26
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1403Z boat end of cable 3' depth

1600Z Navigation gone

1614Z CABLE OUT — INC SPEED TO 4.5K
THRU WATER TO CHECK BALLAST.

	#1	#3	#5	#7	#9	#11	#12	#13
1730Z Shambh Depth Setting	55	30	31	35	31	40	35	35
Actual Depth	25	29	27	27	25	21	N/A	23

Test shots fired at these depths

1750Z stop firing

1751Z Increasing speed to 5 kts

1801Z Decreasing speed to 4.0 kts

1805Z Begin turn to bring us to 270°
to restart line 196

1947Z Course change to 260°

1949Z Reduce speed to 4.7 kts over ground

2

2057Z

2125 BIRD SETTING LOOK GOOD

	#1	#3	#5	#7	#9	#11	#12	#13
(DEPTH:	22	24	25	24	26	24		27)

SETTING: 48 27 25 30 33 38 32 12

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2204Z SOL 196 missed first 3 shots

1st SP 0	1st F 01	TAPE 10
2nd SP 04	2nd F 02	

2210Z GUN 10 ACTING UP

2215Z INCREASING SPEED 1 TURN

2233Z SPEED 4.3 (THRU WATER)

#1	3	5	7	9	11	13
↑	↑	↑	↑	↓	↑	↓
22	25	25	25	27	27	26

2240Z ^{React to!}
 BIRD #5 22' STREAMER SINKING (30...)
 #7 25'

SPEED UP TO 4.6 (SOG)

#1	#3	#5	#7	#9	#11	#13
21	24	24	25	27	24	23

2245Z GUN 1 IS SCREWY (EARLY, LATE, NOT FIRING,
 ERT SAYS NO FIRE
 GUNNERS SAY IT IS FIRING)

2248Z CHANGE TAPE 10 to 11

2300Z	#1	#3	#5	#7	#9	#11	#13
	21	23	23	22	25	24	24

1355Z SOG 4.6 / STW 4.5
STREAMER DEPTH MOSTLY 20-25 RANGE

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JD162, 10 JUNE 1992

00:00:38 GPS NAV PROBLEM: MISS SHOTS: LAST SHOT P. 545, FS43

00:01:30 SP 546, FS44: GUNS FIRING AGAIN
— MISSED ~4 SHOTS

0017Z #1 #3 #5 #7 #9 #11 #13
21 22 22 23 22 19 19

00:21 GUNS 1, 12, 20 SHOWING HIGH FREQUENCY OF EARLY/LATE
FIRING
0026 bridge lost the line but appears to be reasonably on course,
guns did not stop firing

0035 Gun #12 often E/L/N

0036 #1 ~~21~~ #3 ~~23~~ #5 #7 #9 #11 #13
21 23 22 24 25 21 17

0052 possible leak in Gun #9

0055 #1 #3 #5 #7 #9 #11 #13
23 27 27 25 27 25 27

0058 Gun #12 not firing SP8B onwards

0101 EOL 196

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0126 Z changing course to 270°, delay of ~ 20 min. before SOL

0145 Z	#1	#3	#5	#7	#9	#11	#13
	23	26*	26	28	30	27	28

0212 Z	#1	#3	#5	#7	#9	#11	#13
	18	21	21	22	24	19	18

0220 Z SOL 161

0225 Z Gun #12 not firing

#1	#3	#5	#7	#9	#11	#13
19	21	21	21	23	19	19

0226 Z Gun #12 firing + stopping frequently

0243 Z "MISSED NC" message between SP 102 and SP 103 no evidence of missing shot from time, SP# or file# increments

0246 Z	#1	#3	#5	#7	#9	#11	#13
	20	23	23	22	24	20	18

0256 Z GUN #18 NOT FIRING, 12 STILL ERRATIC

0304 Z EOT 15, SOT 16 (SP 203)
(SP 202)

0313 Z	#1	#3	#5	#7	#9	#11	#13
	18	18	18	19	21	20	17

0316 Z streamer getting shallow, drop speed to ~ 4.5K

0320 Z all guns firing

0331 Z "missed NC" ~~message between SP 325 and SP 326~~
~~missed shot between F #325 and #326~~
 missed shot between F #325 and #326

0341 Z	#1	#3	#5	#7	#9	#11	#13
	20	22	22	22	23	20	19

0352 Z Gun #12 not firing

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0358 Z Gun #12 appears on screen as not firing, but
gunners say Gun #12 is firing

0448 Z Gun #12 is firing late

0500 Z Gun #12 stopped firing

0511 Z Called Engine room - will shut down ~10min.

0513 Z	#1	#3	#5	#7	#9	#11	#13
	19	20	20	20	21	19	17

0557^Z₄₉ SOL Gun 12 working

0602 Z Called Bridge - off line Abort line

0605 Z Line #197 aborted. Will circle
around & try again.

0733 Z Circled around AGAIN! Will begin SOL momentarily

0735 Z SOL Missed first shot

0750 Z	#1	3	5	7	9	11	13
	21	22	23	23	23 ²³	22	21

0800 Z guns stopped @ SP 114 / missed 4 shots

	#1	#3	#5	#7	#9	#11	#13	
0815 Z	24	25	26	26	25	24	25	STW 4.1

Streamer depths look even (~23-27)

BIRD

1 → 13

SETTINGS: 48 27 22 25 33 38 32 12

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0842Z

DEPTH
GUN BOX FAILED TO RESPOND!! SP #299
recovered by itself

0850Z

STREAMER DROPPING (STW 3.8-4.1) 17-30 KNOTS

0857Z

DIALLED BRIDGE
PICK UP SPEED A LITTLE BIT

0910Z

STREAMER DEPTHS HAVE COME UP (STW 4.4) 21-25

#1 → #3 #5 #7 #9 #11 #13
22 24 21 22 21 22 20

0907Z

GPS 4200 LOGGER STOPPED

0912Z

GPS 4200 LOGGER RESTARTED

0924Z

GPS 4200 STOPPED

0926Z

GPS 4200 RESTARTED

0934Z

COMPASS FAULT SP #516
(error message)

1005Z

#1 #3 #5 #7 #9 #11 #13
22 23 21 21 22 20 20

1036Z

EOL 197 SP #832

~~1056Z~~

~~1056Z~~ "NAV BLOCK INCOMPLETE"
message repeated lots of times

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1100Z WORKING ON GUNS, CHAFING PROBLEM

1130Z : COMPASS #6 FAULT appearing with
NAN BLOCK INCOMPLETE MESSAGES

1209 Z	#1	#3	#5	#7	#9	#11	#13
	21	21	22	22	24	19	15

1244 Z	#1	#3	#5	#7	#9	#11	#13
	20	24	23	21	21	20	19

1313 Z	#1	#3	#5	#7	#9	#11	#13
	20	23	21	20	22	21	21

1337 Z SOL 162

1347 Z	#1	#3	#5	#7	#9	#11	#13
	19	20	19	18	22	20	18

1353 Z changed depth of bird #13 from 12 to 17

1400 Z ~ 2 missed shots between SP #107 and #108

1407 Z navigation problem, guns stopped firing after SP #130

1414 Z EOL 162

1420 Z start turn to right

1433 Z	#1	#3	#5	#7	#9	#11	#13
	20	22	22	23	25	23	25

1440 Z finished turn, new heading 260°

1449 Z "COMPASS #6 FAULT" message

1537 Z Streamer depths have not been updating
"COMPASS #6 FAULT" messages

1538 Z finished turn

1553 Z starting turn to right

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1615 Z SOL to check everything out

1617 Z SOT but no shots recorded

1625 Z Shots being recorded starting w/ #33
file # 311625 Z EOL EOT #27 but will reuse
tape #27 as tape #28 so No Tape #27

1625 Z Starting turn to restart line

1650 Z Called Engine room + gun shot

1655 Z SOL #162^C SOT #28

1703

#1	3	5	7	9	11	13
20	21	20	21	24	20	17

1739 Z EOT #28 SOT #29

1802 Z Missed 3 shots between 303 + 304

1823 Z EOT #29 SOT #30

1836 Z

#1	3	5	7	9	11	13
17	21	21	21	22	19	18

1922 Z Lost Navigation Lost ~15 shots between
shots 656 + 657

1933 Z Regained Nav.

~~1950 Z~~
2000 EOL #162C2119 Z Starting turn, should be steady
on line 199 in 20 min

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2146Z SOL 199, BOT 34
streamer looks level (21-25)

2229Z streamer getting shallower (17-21)
STW 4.7 / SOG 4.8

called bridge to slow down

2242Z streamer dropping, seems to be
settling (20-23) STW 4.4 / SOG 4.4

2334Z picking up speed by ~0.1 kn
initially: STW 4.2 / SOG 4.2

2343Z STW 4.4 / SOG 4.4
streamer depths (20-25)

2352Z STW 4.5 / SOG 4.6

streamer shallower (~18-22)

2355Z BOT 37
0012Z #1 #3 #5 #7 #9 #11 #13
21 22 19 18 23 18 18

← EW9207
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0018Z STW 4.5 K / SOG 4.5 K

0034Z streamer appears level (19-21)

0042Z Gun #7 not firing, has a leak

0045Z EOL 199

0054Z streamer sinking

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0055Z #1 #3 #5 #7 #9 #11 #13
 28 40 41 42 44 40 44
 called bridge to increase speed

0104Z delayed turn to try to find problem w/ Gun #7
 #1 #3 #5 #7 #9 #11 #13
 25 33 30 30 30 28 33

0106Z GPS 4200 has not been updating since 0046Z

0109Z GPS 4200 updating again

0120Z #1 #3 #5 #7 #9 #11 #13
 23 28 28 28 28 28 30

0133Z BEGIN TURN

0140Z #1 #3 #5 #7 #9 #11 #13
 23 27 25 24 25 21 20

0145Z boat end of cable at 10
 "COMPASS #6 FAULT" messages

0151Z end of turn, new heading 090

0202Z Gun #7 going back into the water

0234Z SOL 164

0238Z #1 #3 #5 #7 #9 #11 #13
 20 23 23 23 23 21 20

0242Z STW 4.7 K / SOG 4.6 K

0305Z #1 #3 #5 #7 #9 #11 #13
 18 23 22 22 22 20 19

0331Z STW 4.6 K / SOG 4.3 K

0342Z #1 #3 #5 #7 #9 #11 #13
 21 21 19 21 22 19 19

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0530 Called Engine room & Gun Shop -
10 min. to shut down

0540:53 EOL #164

0602:40 Start turn to right

0638Z SOL #201

0653Z	#1	3	5	7	9	11	13
	22	25	24	25	26	25	27

0655 "Missed NC" message on monitor. Shot point
skipped #800656 "Missed NC" message on monitor. Skipped
#82 shotpoint

0734 GPS 4200 Not updating

0736 GPS 4200 Fixed

0818 "COMPASS #01 FAULT" msg repeated for #3 2-6

0910 streamer looks pretty level (22-27)

0945 finished line 201, starting stbd turn

1005Z streamer rising during turn (10-20)

1011Z streamer drops as speed drops (18-23)

1023:40Z SOL #166 smooth start, guns cycled <1min
before SOL, Engine Rm., gunners had to
be tracked down, new procedure (gun shop
response) added to SOL sequence.

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- 1114Z streamer shallower (17-20) STW 4.7
- 111356 GPS 4200 not updating
- 111851 GPS 4200 restarted
- 1121 REPEATED "XENAV BLOCK INCOMPLETE" MESSAGE
6 times
- 112824 SP 000 F 292
- 112838 SP 294 F 293
- 1140 Streamer depths (17-20) STW 5.1
- 1148 gun window hung
- 1150Z gun window restarted
- 1158Z GPS 4200 restarted after 5 min.? hangup

1200Z	GUN DEPTHS	<u>GUN #</u>	<u>DEPTH</u>
		1	3.9 m
		3	3.3 m
		5	5.2 m
		7	4.6 m
		9	5.0 m
		12	5.2 m
		14	18 ft.
		16	20 ft.
		18	12 ft.
		20	12 ft.

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1206 Z #1 #3 #5 #7 #9 #11 #13
19 19 18 19 22 18 16

STW 5.1 K / SOG 4.9 K

1221 Z Streamer shallow, bird #13 depth changed to 22

1229 Z #1 #3 #5 #7 #9 #11 #13
17 20 19 19 21 19 18

1244 Z STW 5.0 K / SOG 4.7 K

Gun#	Depth
1	4.3 m
3	3.1
5	4.5
7	3.9
9	4.5
12	5.2
14	15 ft
16	19
18	12
20	16

1306 Z #1 #3 #5 #7 #9 #11 #13
17 16 16 17 21 19 15

1320 Z EOL 166

1334 Z #1 #3 #5 #7 #9 #11 #13
17 19 18 18 21 19 18

~1340 Z GPS 4200 #1 and #2 stopped tracking any satellites,
link went down, no DGPS

1407 Z blackout, no GPS

1408 Z begin turn to the right

1412 Z #1 #3 #5 #7 #9 #11 #13
17 17 17 18 20 18 17

1416 Z ~~GPS~~ GPS back

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1427 Z finished turn, new course 270

1435 Z link is back up on 4200 DGPS

1441 Z #1 #3 #5 #7 #9 #11 #13
 22 25 24 24 27 24 27

* //////////////////////////////////// * //////////////////////////////////// * //////////////////////////////////// * //////////////////////////////////// *
 * //////////////////////////////////// * //////////////////////////////////// * //////////////////////////////////// * //////////////////////////////////// *

* HYDROLANT 828/92(*7). ENGLAND-EAST COAS*.*

* CANCEL HYDROLANT 819/92 AND THIS MSG.

* BT

* *

* *HYDROLANT 827/92 (G*N**M GP\$ STAELLITE SYSTEM.

* 1. USER\$ OF GPS ARE CAUTIONED THAT THE SYSTEM IS NOT YET FULLY
 * OPERATIONAL. SIGNAL AVAILABILITY AND ACCURACY ARE SUBJECT TO
 * CHANGE DUE TO AN INCOMPLETE CONSTELLATION AND OPERATIONAL TEST
 * ACTIVITIES.

* 2. GPS STATUS AS OF 101800Z JUN:

* A. THE GPS CONSTELLATION CONSISTS OF 18 SATELL*TES.

* B. *PRN 11, UNUSABLE COMMENCING 2245Z TO 0645Z AND 1015Z TO 1800Z+
 * 10 THRU 17 JUN.

* **:. PRN 14 AND 19 UNUSABLE 120000Z TO 150000Z JUN.

* D. PRN 14 UNUSABLE 160550Z TO 161350Z *U*.

* 3. CANCEL HYDROLANT*787/92.

* BT

1503 Z test shots fired

1507 Z #1 #3 #5 #7 #9 #11 #13
 24 29 29 29 31 29 33

called bridge to increase speed
 change bird #13 depth to 17

1511 Z change bird #9 depth to 30

1514 Z change bird #12 depth to 30

1516 Z SOL 203

1521 Z #1 #3 #5 #7 #9 #11 #13
 24 28 26 27 29 27 29

change bird #11 depth to 33
 change bird #12 depth to 28

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1529	Gun #	Depth
	1	5.2 m
	3	4.8
	5	5.6
	7	5.7
	9	6.1
	12	6.4
	14	19 ft
	16	22
	18	17
	20	19

1531 Z STW 4.1 K / SOG 4.5 K

1532 Z Change bird #13 Depth to 12

1539 Z	#1	#3	#5	#7	#9	#11	#13
	22	24	23	23	23	24	29

1548 Z #13 constantly 3-6 ft deeper than #11

1611 Z "Compass #06 Fault" reading on monitor
between sp264 & 265

1725 Z	#1	3	5	7	9	11	13
	23	24	22	22	23	22	25

1801 Z Nav Block Incomplete from sp# 781-791

1812 Z EOL #203

1851 SOL #168

1853 Change bird #13 depth to 17

Change bird #12 to 32 & #13 to 22

1910 Z	#1	3	5	7	9	11	13
	17	17	17	17	19	16	21

1915 Change bird #13 to 30

1921	#1	3	5	7	9	11	13
	19	19	18	18	18	16	18

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19:53:33

line #168

Missed ~5 shots between ~~290~~ 290 + 292
No shot #291

20:16:51

GUN DEPTHS

GUNSDEPTH

1

4.7 m

3

4.2 m

5

5.0 m

7

4.5 m

9

4.8 m

12

5.4 m

14

17 ft.

16

20 ft.

18

16 ft.

20

16 ft.

20:19:10

Lab temp rose to 73° F, 50% humidity at around shift change of watches, ~ the time the new problems arose.

~1953 Z diff GPS went down (disconnected)

~ SP# 289 F#287 ← EW9207

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0002 Z SOL #205, SP#0 and F#1, skipped SP#1,2
firing on time, 13s interval0007 Z cable depths: #1 #3 #5 #7 #9 #11 #13
21 22 24 25 29 28 33Gun #Depth

1

4.6 m

3

4.1

5

6.0

7

5.4

9

5.4

12

6.4

14

18 ft

16

21

18

15

20

14

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0032 Z Can #13 constantly 3-7 m deeper than #11

0049 Z cable depths: #1 #3 #5 #7 #9 #11 #13
 23 27 25 25 25 22 27

Gun #	Depth
1	4.9 m
3	4.0
5	5.3
7	5.7
9	5.3
12	6.1
14	18 ft
16	21
18	16
20	18

0122 Z DGPS link is back up

0132 Z EOL 205, line aborted because DGPS is back, we're going to circle around and start the line over

0217 Z cable depths: #1 #3 #5 #7 #9 #11 #13
 17 17 16 17 18 15 17

0334 Z SOL 205A

0340 Z cable depths: #1 #3 #5 #7 #9 #11 #13
 24 30 29 29 32 29 33

Gun #	Depth
1	4.8 m
3	4.1
5	5.4
7	5.9
9	5.5
12	6.0
14	18 ft
16	21
18	17
20	18

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04 42Z ^{BIRD} CABLE DEPTH

#1	3	5	7	9	11	13
24	30	27	27	28	26	31

0604Z CABLE/BIRD DEPTH

#1	3	5	7	9	11	13
21	24	24	23	25	24	29

0637 EOL # 205A

0647 Start turn

07:15:00 SOL # 169

08:04/48

GUN DEPTHS	GUN	DEPTH
	1	4.6 m
	3	3.7 m
	5	5.5 m
	7	4.9 m
	9	5.2 m
	12	6.1 m
	14	19 ft.
	16	21 ft.
	18	16 ft.
	20	18 ft.

0910Z GUN DEPTHS

1	4.5m
3	3.5m
5	4.8m
7	4.7m
9	5.0m
12	5.6m
14	17 ft
16	20 ft
18	15 ft
20	17 ft

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0910Z

STREAMER DEPTHS:

#1	#3	#5	#7	#9	#11	#13
19	19	19	28	19	20	22

0949

another satellite just set and bridge called to note jump in position (2nd time this am)

1008

GUN DEPTHS:

1	3	5	7	9	12	14	16	18	20
4.7m	4.1m	5.2m	4.7m	4.8m	6.0m	18ft	21ft	17ft	18ft

STREAMER DEPTHS

#1	#3	#5	#7	#9	#11	#13
18	18	17	18	18	17	21

approaching EOL

1021

EOL #169

1112

SOL #207

STREAMER DEPTHS:

#1	#3	#5	#7	#9	#11	#13
21	22	21	22	21	19	27

1122

GUN DEPTHS:

1	3	5	7	9	12	14	16	18	20
4.2	4.0	4.9	5.3	4.9	6.4	18	21	16	14

1146

NOTE ON SOL #207

before actual start at line 4 shots were fired on time 984, 985, 986, 987
 real 1st SP#988, 2nd shot SP#989, 3rd shot SP#990, shot #5 reset here
 4th shot SP#2 (F#8)

EW9207 JD164 12 June 92

1225 Z cable depths: #1 #3 #5 #7 #9 #11 #13
 21 22 20 20 23 22 25

Gun #	Depth
1	4.0 m
3	4.0
5	5.3
7	5.4
9	4.9
12	6.5
14	17 ft
16	22
18	15
20	13

1314 Z STW 4.5 K / SOG 4.6 K

1320 Z cable depths: #1 #3 #5 #7 #9 #11 #13
 22 20 20 19 20 20 23

Gun#	Depth
1	4.9 m
3	3.9
5	5.5
7	5.5
9	4.9
12	6.2
14	18 ft
16	21
18	16
20	18

1348 Z EOL #207

1358 Z GPS #2 is down (since before EOL #207)

1401 Z no GPS

1417 Z GPS is back, GPS #2 still down

1432 Z "COMPASS #6 FAULT" messages
 GPS #1 and GPS #2 down

1514 Z GPS #1 and #2 back up

EW9207 JD 164 12 June 92

1519 Z SOL #171

Cable depths: #1 #3 #5 #7 #9 #11 #13
 18 20 19 20 20 19 21

Gun #	Depth
1	4.5 m
3	3.3
5	4.8
7	4.4
9	4.4
12	5.9
14	17 ft
16	21
18	14
20	17

1523 Z increased speed, time interval was approaching 15 s

1525 Z change bird #13 depth to 35

1539 Z decrease speed, fire by distance ~ 11.6 s

1553 Z cable depths: #1 #3 #5 #7 #9 #11 #13
 18 19 17 16 19 18 21

1605 Z Gunner called One of the guns is tangled - will fix after EOL.

1640 Z Gun #20 often late sometimes early

1641 Z Compass #6 Fault

1700 Z Lost float on gun #16 + guns #18
 and 20 are tangled.

1722 Z Guns # 7 + 9 often late + early.

1804 Z Bruce is sleepy + going to take a nap.

EW9207 JD 164 12 June 92

1824Z

EOL #171 Will go straight
for a while so gunners can
untangle #18 + 20 guns

1852Z

Bridge starting turn to right.

19:30Z

SOL 209

1953Z

Set Bird # 13 up to 20
12 " " 25

1940Z

Reset Bird Depth for #13 → 15
#12 → 20

1940Z

Occasional Compass #06 Fault messages

1949Z

Cable still deep. Tom gone to
bridge to coax a little more speed
out of them.

1958Z

Occasional compass #06 faults at
SP 129, 131, 134, 133 + 2u (n21, 2, ...)
till 141

2000Z

CABLE DEPTHS:

#1	#3	#5	#7	#9	#11	#13
23	25	23	21	24	23	25

GUN DEPTHS

1	3	5	7	9	12	14	16	18	20
4.2m	4.1m	6.5m	6.0m	5.4m	5.6m	18.4	21.4	16.4	17.4

COMPASS FAULT error messages continue "COMPASS #06 FAULT"

2020Z

sats 14 + 19 taken out of GPS
solution with no apparent
change in position. 4 sats up now.

EW 9207

2024Z 12 June 92

2100Z

CABLE DEPTHS:

#1	#3	#5	#7	#9	#11	#13
21	21	20	21	21	18	25

GUN DEPTHS:

1	3	5	7	9	12	14	16	18	20
4.6m	4.2m	6.3m	5.7m	5.1m	6.2m	18ft	21ft	16ft	18ft

2103Z

MONITOR WENT BLACK

2108

~~missed a shot (missed several) 100+ seconds~~
 missed a shot (missed several) 100+ seconds

2109

shooting on time 12 sec intervals

2119Z

restarted as line 209A in fire by distance mode

N55 shots were fired during crash

1st 8 shots were bad files 1-8

1st good shot @ 21:21:07 SP#505, F#09

i think the numbering on the SPs is continued from line 209
 but file #s reset (ie 1st File = 01)

2200Z

CABLE DEPTHS:

#1	#3	#5	#7	#9	#11	#13
22	24	24	25	23	20	21

GUN DEPTHS:

1	3	5	7	9	12	14	16	18	20
4.5m	4.1m	5.3m	5.4m	5.3m	5.9m	18ft	21ft	16ft	13ft

2220

EOL #209A

pulling starting turn

EW9207

031

JD 164 / 12 June 92

2255Z approaching start of line

2307Z SOL #173, BOT #92

birds 11 & 13 still look too shallow, shallower than the rest of the cable depths

2313Z change bird settings

BIRD #13 from 15 to 20

BIRD #12 from 20 to 25

CABLE DEPTHS:

23:20Z	#1	#3	#5	#7	#9	#11	#13
	20	22	20	19	20	18	20

GUN DEPTHS:

	1	3	5	7	9	12	14	16	18	20
	4.3m	4.2m	4.6m	5.3m	5.4m	6.0m	19ft	20ft	15ft	14ft

2318Z missed one shot? NAV BLOCK error

2324Z missed three shots? all NAV BLOCK errors

gun timing looks okay

2333Z changed bird settings

BIRD #13: from 20 to 25

BIRD #12 from 25 to 30

(I think these were the previous settings)
@ 1953Z

2400Z

CABLE DEPTHS:

#1	#3	#5	#7	#9	#11	#13
19	20	18	18	19	17	18

EW9207

JD 164 12 June 92

2400 Z GUN DEPTHS:

1	3	5	7	9	12	14	16	18	20
4.0m	3.7m	5.2m	4.4m	5.4m	5.4m	17ft	20ft	14ft	14ft

JD165, 13 JUNE 1992

0008 Z PCO2 Partial is not updating on Masscomp logger

0034 Z changed bird #11 depth to 35
missed SP # 381

~0041 Z PCO2 partial updating again

0053 Z cable depths: #1 #3 #5 #7 #9 #11 #13
18 21 19 18 20 20 21

Gun #	Depth
1	4.1 m
3	4.0
5	6.4
7	5.3
9	5.2
12	5.7
14	19 ft
16	21
18	16
20	18

0105 Z change bird #11 depth to 40
change bird #13 depth to 300120 Z cable depths: #1 #3 #5 #7 #9 #11 #13
19 20 20 21 22 20 19

0126 Z GPS 4200 stopped updating
 0140 Z GPS 4200 updating again

0052 Z cable depths: #1 #3 #5 #7 #9 #11 #13
 20 22 21 20 20 21 21

<u>Gun#</u>	<u>Depth</u>
1	5.0 m
3	3.5
5	5.1
7	4.8
9	5.1
12	5.7
14	16 ft
16	20
18	13
20	16

0215 Z EOL #173

0252 Z SOL #211

0254 Z cable depths: #1 #3 #5 #7 #9 #11 #13
 26 34 34 31 34 31 35

changed bird #11 depth to 35

changed bird #13 depth to 15

0302 Z brought all birds except #11 up 4

"BE00E0" messages appearing every other line - SP #42

0310 Z

<u>Gun#</u>	<u>Depth</u>
1	5.4 m
3	5.1
5	5.9
7	6.0
9	5.7
12	6.8
14	19 ft
16	22
18	15
20	18

EWING 9207

JD 165 /13 June 92

0312 Z streamer deeper than 30' even though birds adjusted, called bridge to increase speed from 4.2-4.5 K

0321 Z cable depths: #1 #3 #5 #7 #9 #11 #13
21 28 28 29 29 27 28

changed bird #11 depth up to 25

0329 Z strayed off the line so we were closer to next line over, distance X-line ~ 38 m

0334 Z changed bird #13 depth to 20

0346 Z changed bird #3 and bird #5 depths deeper by 2

0347 Z cable depths: #1 #3 #5 #7 #9 #11 #13
18 19 17 18 20 19 24

0534 Z Compass #01, 02, 03, 04, 05, 06 FAULT
between sp #741 & 742 Line 211

05:53:49 EOL #211

06:15Z Bruce + Mike fixing "BE00ED" message.

0629Z Start turn

0655Z DSS 240 is now fixed + happy
Finished w/ turn

0722Z Reset streamer - too shallow

0732Z DSS 240 crashed - circling around to restart line

0758Z Still having problems setting up for SOL

0825Z approaching SOL 175

EW9207

035

JD 165 / 13 June 92

08:32:50 problem with BSS-240 seems to have been resolved, began run-in of line 175

0846Z SOL #175 gun early or late display not showing guns

0851Z Bruce reenters gun #'s

0855Z CABLE DEPTHS: #1 #3 #5 #7 #9 #11 #13
18 22 21 17 17 16 19

GUN DEPTHS: 1 3 5 7 9 12 14 16 18 20
3.6m 3.6m 4.8m 4.7m 6.3m 5.2m 19ft 19ft 14ft 13ft

0915Z BIRD DEPTHS RESET:
#1 #3 #5 #7 #9 #11 #12 #13
settings →

44	22	20	21	26	25	30	12
----	----	----	----	----	----	----	----

readings → 17 23 22 19 19 18 - 21

~0916Z 2 "NAV BLOCK INCOMPLETE" error messages

0926Z BIRD DEPTHS RESET:
#1 #3 #5 #7 #9 #11 #12 #13
settings →

44	22	25	25	25	25	25	25
----	----	----	----	----	----	----	----

readings → 16 22 21 19 18 15 - 18

0943Z birds 1 → 45', 11 → 27', 12 → 30

09:59Z BIRD DEPTH CHANGE: #11 → 30' (from 27')

10:03Z a bunch of NAV BLOCK errors and gun firing window crashed / RESTARTED @ ~10:04

EW9207

JD 165 / 13 June 92

1011Z

CABLE DEPTHS:

#1	#3	#5	#7	#9	#11	#13
20	24	23	19	18	16	20

GUN DEPTHS:

1	3	5	7	9	12	14	16	18	20
4.3m	3.9m	6.0m	5.2m	5.6m	4.3m	17ft	18ft	15ft	16ft

1017Z

BIRD DEPTH CHANGED

BIRD #7 from 25 to 30

BIRD #9 from 25 to 30

STW 4.2

Speed fluctuating quite a bit ~4.2-4.8 STW

1113Z

CABLE DEPTHS:

STW 4.4

#1	#3	#5	#7	#9	#11	#13
20	24	24	23	21	19	22

GUN DEPTHS:

1	3	5	7	9	12	14	16	18	20
3.5m	3.5m	5.5m	4.8m	5.2m	5.7m	16ft	16ft	16ft	14ft

1132Z

3 "MISSED NO" messages

missed shots: SP#727 & SP#729

(satellite set ~ 1127)

1156Z

approaching EOL, but will continue shooting for ~hr

#1

CABLE DEPTHS:

#1	#3	#5	#7	#9	#11	#13
19	24	26	23	23	20	24

EW9207

037

JD 105 13 June 92

1200Z LAST SHOT IN FIRE BY DISTANCE MODE

SP #835

1ST SHOT IN FIRE BY TIME MODE

SP #837

1215 Z cable depths: #1 #3 #5 #7 #9 #11 #13
 17 19 20 20 21 20 22

Gun#	Depth
1	3.8 m
3	3.8
5	5.0
7	4.9
9	5.8
12	5.7
14	16 ft
16	16
18	14
20	14

1253 Z "COMPASS #6 FAULT" messages

1304 Z cable depths: #1 #3 #5 #7 #9 #11 #13
 18 23 21 20 18 16 20

Gun#	Depth
1	4.3 m
3	3.6
5	5.3
7	5.2
9	5.1
12	5.7
14	16 ft
16	18
18	15
20	17

1321 Z EOL #175

1342 Z finished turn, new course 270°

1352 Z changed bird #12 depth from 30 to 20
 changed bird #13 " " 25 to 15
 " " #11 " " 30 to 20
 " " #9 " " 30 to 20
 " " #7 " " 30 to 20

1355 Z GPS down

1356 Z cable depths: #1 #3 #5 #7 #9 #11 #13
 36 54 52 48 47 42 43
 called bridge to increase speed

1408 Z cable depths: #1 #3 #5 #7 #9 #11 #13
 23 28 24 24 26 27 33

1413 Z DGPS back up

~1435 Z finish reboot of system to try to clear compass 6 fault
 - didn't work, so probably genuine compass fault,

1457 Z SOL #213

1501 Z cable depths: #1 #3 #5 #7 #9 #11 #13
 21 23 20 18 20 19 26

changed birds #5, #7, #9 depth from 20 to 24

1505 Z

Gunn #	Depth
1	5.0 m
3	3.9
5	5.6
7	6.1
9	5.1
12	5.8
14	18 ft
16	20
18	15
20	16

1507 Z "COMPASS #6 FAULT" message has appeared on every other line since SOL

1511 Z cable depths: #1 #3 #5 #7 #9 #11 #13
 20 21 21 22 19 17 23

1515 Z changed bird # 11, #12 depth to 24

1518 Z bird settings line # 213:

#	Setting
1	45
3	22 - changed to 25
5	24 - changed to 26
7	24 - changed to 26 - changed to 28
9	24 - " " - changed to 28 - changed to 30
11	24 - " " - " " - "
12	24 - " " - " - "
13	10

1557 Z

Gun#	Depth
1	4.8 m
3	3.5
5	5.5
7	5.6
9	5.5
12	6.1
14	19 ft
16	20
18	17
20	18

1606 Z Changed bird depth ~~#~~ of #3 → 23
#5 → 24

1702 Bird settings + actual depths

#	settings	depth
1	45	22
3	23	26
5	24	25
7	28	25
9	30	27
11	33	26
12	26	
13	10	29

EW9207

SD 165 13 June 92

18:38:07

SOL # 177

Bird	Setting	Depth
1	45	18
3	23	22
5	24	20
7	28	21
9	30	21
11	35	18
12	30	
13	30	21

No "Compass Fault" Message !!

1949Z Gun depths

1	3	5	7	9	12	14	16	18	20
4.2m	4.2m	5.7m	5.0m	4.9m	5.8m	17'	19'	13'	16'

2000Z CABLE DEPTHS:

#1	#3	#5	#7	#9	#11	#13
20	23	23	21	21	20	25

2028Z DGPS down (plotter)

2041Z DGPS plotter restarted

2047Z gun #14 NOT FIRING periodically, OR FIRING E OR L

2056Z compaq crash (TAPE LABEL NOT PRINTED)
restarted w/ rtlab command

EW9207

JD 165 13 June 92

2144Z EOL #177, SP #836

2200

CABLE DEPTHS:

#1	#3	#5	#7	#9	#11	#13
18	22	21	22	22	21	27

GUN DEPTHS:

1	3	5	7	9	12	14	16	18	20
3.9m	3.6m	5.9m	4.6m	3.6m	5.4m	16ft	16ft	12ft	16ft

turning to approach LINE #215

2230

SOL #215 @22:24:00

CABLE DEPTHS: STW 4.1 / SOG 4.4

#1	#3	#5	#7	#9	#11	#13
22	24	25	25	25	23	26

GUN #14: still Aring E_SL, no NO FINE yet...

2300

CABLE DEPTHS:

#1	#3	#5	#7	#9	#11	#13
19	20	21	21	24	23	25

STW 4.4 / SOG 4.8

GUN DEPTHS:

1	3	5	7	9	12	14	16	18	20
---	---	---	---	---	----	----	----	----	----

BIRD SETTINGS:

1	3	5	7	9	11	12	13
45'	23'	24'	28'	30'	35'	30'	30'

EW9207

JD 165 / 13 June 92

2332Z GUN #14 NOT FIRING

2334Z GUN #14 FIRED ONCE, FIRING ~~REPEATEDLY~~
OCCASIONALLY

2338Z GPS 4200 hung up

2342Z GPS 4200 restarted

2400Z cable depths: #1 #3 #5 #7 #9 #11 #13
20 22 22 22 22 22 26

Gun #	Depth
1	4.1 m
3	4.9
5	6.1
7	5.3
9	5.3
12	5.7
14	20 ft
16	17
18	16
20	19

JD 166 / 14 JUNE '92

0000Z LOSE GOOD DGPS NAVIGATION - GUNS NOT FIRING

0005Z SP#478 first good shot after GPS trouble
(strayed off line to South)

0008Z decided to pull Gun #14

0013Z problems probably due to bug in navigation
program, not GPS0036Z cable depths: #1 #3 #5 #7 #9 #11 #13
20 26 25 25 25 24 29

0053Z Gun #14 back in water & firing on time

0117Z EOL #215

0153Z End of turn on to line 179

0203Z SOL # 179

0206 Z cable depths: #1 #3 #5 #7 #9 #11 #13
19 23 23 22 21 19 24

Gun#	Depth
1	4.2 m
3	3.0
5	4.5
7	4.9
9	5.1
12	5.6
14	16 ft
16	18
18	13
20	16

0302 Z cable depths: #1 #3 #5 #7 #9 #11 #13
19 22 20 21 20 18 20

Gun#	Depth
1	4.8 m
3	3.8
5	5.1
7	4.6
9	5.2
12	5.5
14	19 ft
16	21
18	16
20	18

0306 Z bird settings line #179:

#	Setting
1	45
3	23
5	24
7	28
9	30
11	35
13	30
12	30

0304 Z GPS 4200 stopped updating

0316 Z GPS 4200 back up

0506 Z EOL #179

0506 Z Plotter down

EW9207

044

JD 166 14 June 92

0551Z SOL #217

Missing sp # 0-19

Missed NC
New Block Incomplete

0602Z Missed NC - no sp# 56

0606Z ~~Plotter~~ Plotter stopped

0611Z	Bird #	Setting	Depth
	1	45	20
	3	23	24
	5	24	22
	7	28	22
	9	25	21
	11	30	21
	12	25	
	13	20	25

0623Z Plotter problems

0624Z Change Bird #13 → 18'

0626Z " " " → 12'

0800Z CABLE DEPTHS:

#1	#3	#5	#7	#9	#11	#13
23	29	27	25	23	23	28

GUN DEPTHS:

1	3	5	7	9	12	14	16	18	20
4.8m	4.7m	6.7m	4.9m	5.5m	6.1m	18ft	20ft	17ft	19ft

0846Z "ACQUISITION CODE = 8020" "BAD CAN 018" crashed 5 shots before EOL #217, SP#030 missing last 5 shots

EW9207

JD 166 / 14 June 92

0906Z turning for approach to line #181

0921Z approaching LINE #181

CABLE DEPTHS:

#1	#3	#5	#7	#9	#11	#13
18	21	20	18	18	19	21

NATHAN RESET BIRDS #13 & #12

BIRD #13: 28 (from 12)

BIRD #12: 25 (from 20)

GUN DEPTHS:

1	3	5	7	9	12	14	16	18	20
4.0m	3.7m	5.2m	4.5m	5.1m	5.6m	18ft	18ft	14ft	12ft

1001Z "MISSED NO" GUN DEPTH WINDOW CRASHED

1004Z GUN DEPTH WINDOW RESTARTED

F# 116 - #127

1012Z GUN #7 IS OFTEN E or L

1103Z BIRD SETTINGS:

#1	#3	#5	#7	#9	#11	#12	#13
45	23	24	28	25	30	25	28

CABLE

DEPTHS : 19 22 20 18 18 19 23

EW9207

046

JD 166 / 14 June 92

1105Z GUN DEPTHS:

1	3	5	7	9	12	14	16	18	20
4.6m	4.4m	5.5m	6.1m	5.1m	6.0m	19ft	19ft	16ft	16ft

1228Z missed ~ 3 shots due to NAV failure
"MISSED NC"

1215Z cable depths: #1 #3 #5 #7 #9 #11 #13
19 22 20 19 17 16 20

Gun #	Depth
1	3.9m
3	3.8
5	5.1
7	5.0
9	5.0
12	5.9
14	18 ft
16	18
18	13
20	14

1238Z GPS stopped updating

1242Z GPS back up

1254Z EOL 181 - TAKING LONG TURN ANTICIPATING DGPS DOWN-TIME

1302Z "COMPASS #6 FAULT" messages appeared between "NAV
BLOCK INCOMPLETE" messages

1346Z gunners rebuilding Gun #9 (465 cu. in.)

1351Z lost DGPS

1354Z finished turn

1407Z DGPS back up

1423Z SOL 219

"COMPASS #6 FAULT" messages appearing every other line

1427Z cable depths: #1 #3 #5 #7 #9 #11 #13
19 19 19 19 19 20 24

1429 Z	Gun #	Depth
	1	4.2 m
	3	3.6
	5	6.2
	7	5.3
	9	5.5
	12	6.2
	14	18 ft
	16	20
	18	15
	20	18

bird settings line #219:

#	setting
1	45
3	23
5	24
7	28
9	25
11	30
12	25
13	15

1440 Z changed bird #12 depth to 30

changed bird #11 depth to 33

1447 Z changed bird #12 depth back to 25

1507 Z cable depths: #1 #3 #5 #7 #9 #11 #13
22 27 27 26 25 25 28

1536 Z cable depths: #1 #3 #5 #7 #9 #11 #13
21 26 25 25 23 23 27

Gun #	Depth
1	5.2 m
3	4.5
5	5.1
7	5.0
9	5.7
12	6.1
14	19 ft
16	20
18	16
20	18

1600Z Nav Block Incomplete sp# ~~46~~ 467-479

1719Z EOL # 219

1732Z Compass #06 Fault still displaying

1758 SOL # 183

Missing Sp# 1-4

1800 Nav Block Incomplete Missing Sp# 15-16

1800 Compass #06 Fault continues to display after every shot

1809 Reset can #13 \rightarrow 20'

1814 Lower cans # 12 \rightarrow 30 #13 \rightarrow 25

1815 Nav pt. file this line is glued on
to the end of the previous line data is
there. maw
183 is on end of 219

1820 Slowed speed to 3.8 kt, but need to
increase just a bit.

1825 Adjust can #13 \rightarrow 30
#12 \rightarrow 35
#11 \rightarrow 35

1828 Gun #20 firing early & late, one NF

EW9207

1830

1600 14 June 92

Bird	Setting	Actual Depth
1	45	18
3	23	20
5	24	20
7	28	20
9	25	21
11	35	20
12	35	
13	30	24

1838Z Gun #20 showed "N" several times
called gunners to check.

1916Z Nav Block Incomplete. Missing sp#346-351

1920 - At EOL will pull in gun #20

1923 - Pulled in gun #20 120 ca in

2012Z - MASSCOMP terminal windows froze
terminal went blank

2030Z - restarted LOGGING computer

2036:14 - Gun twenty back on line, in H₂O,
and firing

205:01 - EOL #183

2141Z SOL #221 "COMPASS #06 FAULT" error message continue

2146 streamers pretty deep, called bridge to
ask them to speed up (STW was 4.1 kn)

EW9207

JD 166 14 June 92

2217Z

CABLE DEPTHS:

#1	#3	#5	#7	#9	#11	#13
20	29	25	24	24	21	24

GUN DEPTHS:

1	3	5	7	9	12	14	16	18	20
4.6m	4.0m	5.3m	5.0m	4.7m	5.6m	18ft	19ft	14ft	18ft

2240Z

BIRD SETTINGS:

#1	#3	#5	#7	#9	#11	#12	#13
45	23	24	28	25	35	35	30

2320Z

GUN #20 NOT FIRING

2323Z

Gun #20 capacity reduced a little by Bruce, back on line, firing resumed.

0002Z

Gun #20 not firing frequently

0008Z

Cable depths: #1 #3 #5 #7 #9 #11 #13
20 24 22 24 21 20 25

Gun # Depth

Gun #	Depth
1	4.6m
3	3.9
5	5.4
7	5.3
9	5.2
12	6.4
14	19 ft
16	21
18	16
20	14

0630Z

EOL # 221

0057Z

finished turn

0110Z

Sol # 185

Gun #20 not firing

0114 Z cable depths: #1 #3 #5 #7 #9 #11 #13
16 19 19 19 18 17 20

Gun #	Depth
1	4.5 m
3	3.3
5	4.3
7	4.2
9	4.5
12	5.3
14	15 ft
16	18
18	15
20	17

0123 Z changed bird #11 depth to 38

0128 Z bird settings line #185:

#	setting
1	45
3	23
5	24
7	28
9	25
11	38
12	35
13	30

0134 Z decided to pull Gun #20 - appears problem is w/ gun

0141 Z Gun #20 still in water

0200 Z tracking zero satellites for ~30 sec, guns didn't fire
but no evidence of this on screen, Gun #20 out of water

0204 Z cable depths: #1 #3 #5 #7 #9 #11 #13
18 20 17 18 18 18 20

called bridge to decrease speed

Gun #	Depth
1	4.3 m
3	3.3
5	4.7
7	5.1
9	5.0
12	5.6
14	15 ft
16	18
18	13
20	0

0212 Z "COMPASS #6 FAULT" messages have appeared since SOL
(they were there between lines also)

0258 Z Gun #20 back in water, still not firing

0306 Z cable depths: #1 #3 #5 #7 #9 #11 #13
18 19 19 20 20 20 18

Gun #	Depth
1	4.4 m
3	3.9
5	5.4
7	4.6
9	4.9
12	5.5
14	17 ft
16	19
18	13
20	15

0309 Z Gun #20 being pulled again

0339 Z Gun #20 back in water

0355 Z Gun #20 out, Gun #19 in (Actually it is still
gun #20 but shows on the monitor as gun #19)

0410 Z EDL #185 - Gun 20 shown as 20 again

0507 Z Nav Block Inc. Missing sp#84

Compass #06 Fault message every line.

0516 Z Change Bird #12 + #13 to 20' each

0516 Z Nav Block Inc.

0523 Z Plotter Stopped. Core dumped

Bird	Setting	Actual Depth
1	45	21
3	23	25
5	20	26
7	20	26
9	25	27
11	38	28
12	20	
13	20	30

EW9207

DD 167 15 June 92

0608Z Change bird #3 \rightarrow 18. Was dropping
to 34'

0624Z Cable sinking to 38' in some places.
Called Bridge to speed up a little.

0627Z Core dumped - Plotter stopped

0628Z Missed NC between sp#463 + 465

0633Z Missed NC between ^{sp#}482 + 484
sp# 484 + 486
sp# 489 + 491

0653Z	Bird #	Setting	Depth
	1	45	26
	3	15	36
	5	15	35
	7	20	33
	9	25	30
	11	38	26
	12	20	
	13	20	29

0701Z Cored dumped - Plotter down

0744Z Core dumped - Plotter down

0745Z EOL #223

0828Z SOL #187

~ 0829

NAVIGATION FAILURE
Missed 4 shots

0850Z 0:29:28 \rightarrow 0:30:35

EW9207

JD 167 15 June 92

0843Z LINE #187 ABORTED DUE TO
NAVIGATION FAILURE
SATELLITES SCREWY?

0933Z APPROACHING START OF LINE 187A (TURNING)

0954Z SOL #187A

CABLE DEPTHS:

#1	#3	#5	#7	#9	#11	#13
19	19	18	19	20	21	22

GUN DEPTHS:

1	3	5	7	9	12	14	16	18	20
3.9m	4.1m	4.6m	5.3m	4.9m	5.3m	18ft	19ft	13ft	14ft

1005Z ~~BIRD~~ SETTINGS:

#1	#3	#5	#7	#9	#11	#12	#13
45	15	15	20	25	38	20	20

CHANGE BIRD SETTINGS:

BIRD #5: to 22 (from 15)

BIRD #3: to 22 (from 15)

1102Z NO GUNS FIRED ALL NNNNN
missed a shot

[A] cones up on gun EORL console periodically

STS/INS
FAULT RED LIGHT STAYS ON ALL
THE TIME

EW 9207

JD 167 14 JUN 92

1209 Z cable depths: #1 #3 #5 #7 #9 #11 #13
 18 20 18 17 20 20 17

Gun #	Depth
1	3.8 m
3	3.5
5	5.3
7	4.7
9	5.1
12	6.3
14	16 ft
16	16
18	13
20	13

1217 Z H.S. Center Beam has not updated since 0628

1247 Z Got HS back on-line

1258 Z missed a shot between SP#776 and #778

1311 Z EOL #187A - taking long turn; anticipating nav. "hole"

1346 Z DGPS down

1410 Z DGPS back up

1413 Z cleaned tape drives #0 and #1 after line 187, reel 172

1416 Z re-initialised GPS #1, #2 after switching HS navigation to transit DR

1419 Z GPS #1, #2 back up - switch HS nav. back to GPS

1433 Z changed bird #12 depth to 20 - 15

changed bird #13 depth to 15 - then changed to 12 - then 10

Changed bird #11 depth to 30 - then 25

1445 Z streamer running deep, increased speed, brought birds #3, 5, 7 up by 5

1452 Z SOL #225

"COMPASS #6 FAULT" messages still appear

1455 Z cable depths: #1 #3 #5 #7 #9 #11 #13
 24 29 28 28 27 25 30

EW9207

JD 167, 14 June 92

1456 Z

Gun #	Depth
1	4.9 m
3	4.0
5	5.5
7	5.2
9	5.4
12	6.6
14	19 ft
16	21
18	15
20	16

bird settings line #225

#	Setting
1	45
3	15 \Rightarrow 17 \Rightarrow 20
5	15 \Rightarrow 17 \Rightarrow 20
7	13 \Rightarrow 15 \Rightarrow 18
9	25
11	25
12	15
13	10

1513 Z cable depths:

#1	#3	#5	#7	#9	#11	#13
20	21	20	19	22	22	25

1545 Z cable depths:

#1	#3	#5	#7	#9	#11	#13
22	26	26	26	28	26	29

1749 Z EOL #225

1828 Z SOL #189

1836 Z

Bird	Setting	depth
1	45	17
3	20	17
5	20	16
7	20	15
9	25	17
11	38	18
12	20	
13	20	18

EW9207

JD 167 15 June 92

1847Z

Compass ^{#06} fault error message continuing.

1857Z

Bird	Setting	Depth
1	45	15
3	23	17
5	23	17
7	23	17
9	25	18
11	38	20
12	35	
13	30	21

1933Z

Bird	Setting	Depth
1	45	19
3	28	23
5	28	22
7	28	19
9	28	20
11	38	20
12	35	
13	30	22

2126 EOL # 189 - uneventful line.

2205Z SOL #227 missed 1st 2 shots (at least)

2217Z GUN DEPTH LOGGER STOPPED & RESTARTED

2220Z All birds except #01 up by 3 ft.

2240Z GPS plotting crash (core dump) restarted

2305Z

CABLE DEPTHS:

#1	#3	#5	#7	#9	#11	#13
22	27	27	24	25	24	29

EW9207

JD 167 / 15 June 92

Gun	Depth
1	4.1m
3	4.9m
5	5.6m
7	5.3m
9	5.6m
12	6.0m

Gun	Depth
14	19 ft.
16	20 ft.
18	15 ft.
20	18 ft.

JD 168 / 16 JUNE '92

0004 Z cable depths: #1 #3 #5 #7 #9 #11 #13
22 31 31 28 27 25 29

Gun #	Depth
1	4.5 m
3	5.0
5	5.3
7	5.4
9	5.5
12	6.0
14	19 ft
16	20
18	16
20	17

(SP#609 - 621 incl.)

0017 Z 13 missed shots - "missed NC" messages

0042 Z Error message " PRESS FAULT - 017
PRESS FAULT - 016
" - 015
" - 001 "

NO MISSED SHOTS THOUGH

0105 Z EOL #227

0132 Z FINISHED TURN ON TO NEW LINE #191

0145 Z SOL #191

0147 Z cable depths: #1 #3 #5 #7 #9 #11 #13
19 22 24 22 21 22 24

Gun #	Depth
1	4.8 m
3	5.4
5	5.2
7	5.0
9	5.3
12	5.7
14	17 ft
16	20
18	14
20	15

bird settings line 191:

#	Setting
1	45
3	25
5	25
7	25
9	25
11	35
12	32
13	27

0156 Z "NAV BLOCK INCOMPLETE" messages, SP # is 0000,
after 3 messages SP reads correct #

0200 Z "NAV BLOCK INCOMPLETE", "MISSED NC", SP # at
02:00:53 is 0000 after "N.B.I." messages but then
returns w/ correct #, gun window crashed (upper left corner)

0203 Z everything appears OK

0302 Z cable depths: #1 #3 #5 #7 #9 #11 #13
19 25 24 22 22 21 24

Gun #	Depth
1	4.9 m
3	3.7
5	5.3
7	4.9
9	5.0
12	6.4
14	19 ft
16	21
18	15
20	16

0345 Z cable depths: #1 #3 #5 #7 #9 #11 #13
20 25 25 22 23 22 25

Gun#	Depth
1	4.5 m
3	3.6
5	5.8
7	5.1
9	5.6
12	5.9
14	18 ft
16	20
18	13
20	13

0425 Z Gun #20 shows Not Firing several times

0441 Z Nav Black Inc. Bad TB
Whole system stopped, Nav monitor showed
still firing, but guns stopped

EOL #191

0507Z ~~Fixing~~ Beginning turn
Fixing fan

0534 Z resetting DSS240

0542 Z SOL#229

0601 Z GPS dropped out

0635 Z After resetting the DSS 240 we haven't
touched the cable settings. Current Depth.

#1	3	5	7	9	11	13
20	25	22	21	19	20	21

We don't have any idea what the settings
are because none show on the monitor.

JD 168 16 JUN 92

0822 Z - Gun 18 misfire msg, on ~ SP # 730

0840 Z - more frequent misfire messages on gun 18 toward end of line 229

0944 Z - aborted start of line #193
DSS-240 problems

1055 Z - SOL # 193A, Gun #7 not firing.

1140 Z BIRD SETTINGS:

#1	#5	#5	#7	#9	#11	#12	#13
45	28	28	30	33	35	33	30

CABLE DEPTHS:

#1	#3	#5	#7	#9	#11	#13
19	24	24	23	23	21	23

GUN DEPTHS:

#1	#3	#5	#7	#9	#12	#14	#16	#18	#20
4.0m	3.8m	5.3m	0	4.9m	6.1m	16ft	19ft	15ft	12ft

1207 Z Gun #7 and Gun #18 not firing

1216 Z Gun #7 back up, Gun #18 out of the water

1234 Z called bridge to increase speed

1238 Z DGPS down, now firing on last distance/time interval

1249 Z DGPS back up

1256 Z restarted gun window twice

1304 Z Gun #18 back in

1309 Z EOL #193A, aborted because of navigation problems

13:21 Z HS navigation switched back to GPS - had been placed on Transit SR when GPS nav. poor in 1240 Z

EW9207

JD168 / 16 JUNE '92

1327 Z DGPS down

1338 Z down to 2 satellites on GPS
 - switch HS navigation to Transit Dr

1351 Z "COMPASS #1(3,5b) FAULT"

1358 Z continuing straight out until we get some navigation back

1412 Z GPS 4200 #1 has DGPS back

1414 Z GPS 4200 #2 has DGPS back + we're starting turn

1425 Z GPS down again, satellite #14 unhealthy until 1600 Z

1435 Z finished turn

1507 Z SOL #231

Cable depths: #1 #3 #5 #7 #9 #11 #13
 20 23 24 22 22 19 23

Gun #	Depth
1	4.5 m
3	4.0
5	4.9
7	5.1
9	5.3
12	6.1
14	18 ft
16	19
18	15
20	16

bird settings line 231:

#	Setting
1	45
3	28
5	28
7	30
9	33
11	39
12	33
13	30

~1525 Z Gun #3 is autofiring

1531 Z change HS navigation back to GPS #1

1543 Z cable depths: #1 #3 #5 #7 #9 #11 #13
 21 26 24 23 24 23 24

EW9207

JD 168 / 16 JUNE 92

1556Z gunners pulling gun #3 (200cm in)

1700Z #3 gun back in + firing

1745Z New Black Inc. no sp# 768

1759Z EOL #231

18:42Z SOL #195

1857Z Cable settings + Depth

Bird #	Setting	Depth
1	45	19
3	28	24
5	28	24
7	30	22
9	33	23
11	39	20
12	33	
13	30	22

1921 New Black Inc. Missing sp# 188-192
file # 187-190

2025Z GUN DEPTHS

#1	#3	#5	#7	#9	#12	#14	#16	#18	#20
3.7m	3.2m	4.8m	4.6m	5.2m	5.7m	17ft	20ft	12ft	14ft

2050Z - 2035Z ^{GPS} plotter not working

2035Z - plotter running I hope

2107Z - CABLE DEPTHS:

#1	#3	#5	#7	#9	#11	#13
20	27	27	25	24	21	22

EW9207

064

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2140Z EOL #195

2216Z SOL #230

3 shots, then crash & restart
missed 4 shots (i think)

2250Z CABLE DEPTHS:

#1	#3	#5	#7	#9	#11	#13
23	31	30	28	27	25	28

GUN DEPTHS:

1	3	5	7	9	12	14	16	18	20
4.0m	3.0m	5.2m	4.9m	5.4m	6.1m	17ft	19ft	15ft	13ft

2311Z CHANGING BIRD SETTINGS:

BIRD #3 25 (from 28)

BIRD #5 25 (from 28)

BIRD #13 25 (from 30)

2320Z CURRENT BIRD SETTINGS:

#1	#3	#5	#7	#9	#11	#12	#13
45	25	25	30	33	39	33	25

2335Z

CABLE DEPTHS:

#1	#3	#5	#7	#9	#11	#13
21	28	27	27	27	24	27

EW9207

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0039 Z cable depths: #1 #3 #5 #7 #9 #11 #13
 21 26 26 24 26 23 23

Gun #	Depth
1	4.3 m
3	3.9
5	5.0
7	5.0
9	5.3
12	6.4
14	19 ft
16	20
18	18
20	18

0109 Z EOL #230

0139 Z finished turn

0150 Z SOL #192

0151 Z cable depths: #1 #3 #5 #7 #9 #11 #13
 19 25 23 23 22 21 22

Gun #	Depth
1	4.2 m
3	3.8
5	5.2
7	4.5
9	5.2
12	5.8
14	18 ft
16	21
18	14
20	14

bird settings line #192:

#	setting
1	45
3	25
5	25
7	30
9	33
11	39
12	33
13	25

0154 Z GPS #2 down - Bruce is working on it

EW 9207

066

JD 169 17 June 92

0254 Z cable depths: #1 #3 #5 #7 #9 #11 #13
18 22 24 24 25 22 23

Gun #	Depth
1	4.5 m
3	3.5
5	4.9
7	5.0
9	5.3
12	6.3
14	18 ft
16	20
18	16
20	17

0345 Z GPS #2 back up + updating again

0400 Z EOL # 192

0521 Z Gun # 9 has air leak - go around again

0639 Z SOL #228

0708 Z "Missed NC" between sp # 40 + 142

0714 Z	Bird	Setting	Depth
	1	45	19
	3	18	20
	5	20	21
	7	18	21
	9	18	24
	11	20	24
	12	20	
	13	15	31

0741 - Plotter down + back up again

0845 - Plotter down & back up again

0914 - bad time break, 14 missed shots

EW9207

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0934Z EOL #228

0953Z line 228 VersoTerm Pro file failed
to be saved due to failure to set drive.
properly of SOL.

1003Z changed bird settings:

Bird #13: 20 (from 10)

Bird #12: 20 (from 10)

1

1014Z - SOL # 190, Reel # 227, SP# 2

1106Z - CABLE DEPTHS:

#1	#3	#5	#7	#9	#11	#13
18	21	20	18	18	18	21

GUN DEPTHS:

1	3	5	7	9	12	14	16	18	20
4.3m	3.1m	5.5m	4.2m	6.3m	5.6m	17ft	17ft	14ft	13ft

BIRD SETTINGS:

#1	#3	#5	#7	#9	#11	#12	#13
45	25	25	25	25	30	30	30

1206Z Cable depths: #1 #3 #5 #7 #9 #11 #13
18 22 19 16 15 15 20

1207 z Gun # Depth

1	3.6 m
3	3.2
5	4.5
7	4.5
9	5.1
12	5.5
14	16 ft
16	18
18	11
20	11

1304 z bird #9 and #13 depths increased by 3

1305 z cable depths: #1 #3 #5 #7 #9 #11 #13
 18 21 20 18 19 17 19

Gun # Depth

1	3.8 m
3	3.4
5	4.9
7	4.8
9	5.0
12	6.2
14	16 ft
16	18
18	14
20	14

1323 z EOL #190

1340 z DGPS down

1342 z LOGGED MAIN LOG LATE - 1/2 HOUR ALARM NOT WORKING

1352 z DGPS back up

1428 z SOL #226

1432 z cable depths: #1 #3 #5 #7 #9 #11 #13
 22 29 29 26 27 26 29

Gun # Depth

1	4.8
3	4.0
5	5.5
7	5.4
9	5.9
12	6.2
14	18
16	20
18	17
20	18

1434 Z GPS 4200 not updating

1443 Z GPS 4200 back up

1445 Z bird settings line 226:

#	setting
1	45
3	20
5	25
7	25
9	28
11	33
12	20
13	17 \Rightarrow 15

1500 Z GPS 4200 not updating

1518 Z Calcomp plotter went down, "core dumped" message on screen

1540 Z GPS 4200 not updating

1544 Z GPS 4200 back up

1545 Z cable depths: #1 #3 #5 #7 #9 #11 #13

21 26 27 26 28 25 27

Gun#	Depth
1	4.2 m
3	3.6
5	5.8
7	5.5
9	5.7
12	6.9
14	19 ft
16	21
18	17
20	18

1546 Z "RESET STREAMER" message after SP#374, recovery successful

1614 Z Reset streamer

1618 Z Reset Bird #13 \Rightarrow 10

1625 Z Streamer problems Bad Can #017

1722 Z EOL #226

1734 Z Reset Streamer

EW9207

070

JD 169 / 17 June 92

1807

SOL 193B

1833Z

Bird

Setting

Depth

1

45

17

3

20

18

5

25

19

7

25

19

9

28

19

11

39

20

12

33

13

25

20

2003Z GPS plotter crashed / restarted

2050Z

CABLE DEPTHS:

#1	#3	#5	#7	#9	#11	#13
18	19	21	20	20	20	21

GUN DEPTHS:

1	3	5	7	9	12	14	16	18	20
4.0m	3.4m	5.4m	4.7m	5.0m	4.9m	17ft	19ft	14ft	13ft

2102Z

GPS PLOTTER (CRASHED) / RESTARTED

2137Z

SOL #222

2228Z

BIRD SETTINGS:

#1	#3	#5	#7	#9	#11	#12	#13
45	20	22	25	28	39	33	22

CABLE DEPTHS:

#1	#3	#5	#7	#9	#11	#13
21	24	26	28	29	27	30

EW9207

071

20 169 / 17 June 92

2303Z "BAD TB" , "MISSED NC"

RESET STREAMER & CONTINUED

"RECOVERY SUCCESSFUL"

2327Z BIRD SETTINGS:

#1	#3	#5	#7	#9	#11	#12	#13
45	70	22	25	28	39	33	22

CABLE DEPTHS:

#1	#3	#5	#7	#9	#11	#13
21	27	26	26	26	23	28

GUN DEPTHS:

1	3	5	7	9	12	14	16	18	20
4.4m	3.5m	6.4m	5.4m	5.4m	6.0m	19ft	20ft	14ft	15ft

2359Z LOST DGPS for v. short time (~1min)

0008Z Gun #7 periodically not firing

0023Z cable depths: #1 #3 #5 #7 #9 #11 #13
21 25 27 27 28 26 28

Gun# Depth

1	4.5 m
3	4.1
5	5.4
7	5.2
9	5.4
12	6.4
14	19 ft
16	20
18	16
20	16

0031Z EOL #222

0100Z v. briefly DGPS down (<1min)
finished turn

0111 Z SOL #186

0115 Z cable depths: #1 #3 #5 #7 #9 #11 #13

17 19 21 21 22 21 22

Gun# Depth

1	4.3 m
3	3.4
5	5.2
7	4.7
9	5.1
12	6.3
14	18 ft
16	19
18	15
20	15

bird settings line 186:

setting

1	45
3	25
5	25
7	25
9	28
11	39
12	33
13	22

0120 Z Gun #9 not firing - has a leak + is being pulled

Gun #9 is the big one! No point continuing for now...

0127 Z EOL #186, turning to reshoot

0140 Z 2400 not updating on masscomp. log

0149 Z 2400 GPS back on-line, finished turn

0200 Z GPS #1 down for ~1 min.

0245 Z SOL #186A

0248 Z cable depths: #1 #3 #5 #7 #9 #11 #13

18 22 22 21 21 20 22

0249 Z	Gun#	Depth
	1	4.8 m
	3	3.4
	5	5.1
	7	4.8
	9	5.4
	12	6.0
	14	17 ft
	16	19
	18	13
	20	13

0252 Z window disappeared from lower right

0257 Z "RESET STREAMER" message, recovery successful

0305 Z "COMPASS #1, #2, #3, #4, #5, #6 FAULT" messages
appearing regularly

0308 Z "BAD TB, depth acquisition failed"
System restart fails
EOL #186A

0328 Z SYSTEM RESTART SUCCESSFUL

0334 Z finished turn

0340 Z SOL #215R

0347 Z EOL #215R, passed the point we wanted to record

0352 Z gun window needed to be restarted

0409 Z Pulling in streamer

0506 Z Starting slow 180° turn to right

0510 Z removed COMPASS #6 from STREAMER
AND REPEARED PASSIVE (100m) WHICH
HAD WATER IN SECTION.

REBUILT PRODUCTION TAP FOR 5 COMPASS.

0609 Z SOL #186

0632 Z Plotter stopped "Core dumped"

0641 Z Plotter stopped

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0641 Z

Bird

Setting

Depth

1	45	21
3	25	26
5	25	25
7	25	20
9	26	18
11	25	17
12	30	
13	12	22

0834 Z

CALLAMP PLOTTER CRASHED & RESTARTED

0910 Z

CABLE DEPTHS:

#1	#3	#5	#7	#9	#11	#13
20	25	24	22	20	19	24

GUN DEPTHS:

1	3	5	7	9	12	14	16	18	20
5.0m	4.5m	6.0m	5.2m	5.0m	6.0m	4ft	2ft	17ft	15ft

0951 Z

BOT #255, SUL #220

≈ 1035 Z, plotter down for preceeding 10 min

1116 Z

gun #7 not firing vsp #400, gun probably broken

1120 Z

BIRD SETTINGS:

#1	#3	#5	#7	#9	#11	#12	#13
45	25	25	25	26	30	30	25

CABLE DEPTHS:

#1	#3	#5	#7	#9	#11	#13
19	22	20	18	17	18	21

EW9207

075

JD 170 / 18 June 92

1125Z Gun #7 still not firing (broken)

1127Z PULLING GUN #7 (FOR
REPAIRS?)

1211Z Gun #7 back on-line and firing

1220Z	<u>Bird#</u>	<u>setting</u>	<u>depth</u>
	1	45	20
	3	25	21
	5	25	20
	7	25	17
	9	24	16
	11	30	15
	13	25	19

1224Z reset bird #13 to 30'

1228Z	reset	<u>Bird#</u>	<u>setting</u>
		13	35
		11	35
		9	30

1227Z GPS 4200 not updating

1228Z cable depths: #1 #3 #5 #7 #9 #11 #13
19 20 20 19 18 18 20

1230Z GPS 4200 back up

1236Z	<u>Gun#</u>	<u>Depth</u>
	1	4.7
	3	3.7
	5	5.5
	7	5.4
	9	5.3
	12	6.1
	14	18
	16	20
	18	15
	20	16

EW 9207 170 18 JUN 92

1243 Z EOL # 220

1337 Z DGPS down

1341 Z finished turn

1347 Z DGPS back

1424 Z SOL #184

1427 Z cable depths: #1 #3 #5 #7 #9 #11 #13
 19 23 22 21 21 23 23

Gun #	Depth
1	4.2m
3	3.0
5	5.9
7	4.8
9	5.8
12	6.2
14	17 ft
16	19
18	15
20	15

bird settings line 184:

#	setting
1	45
3	25
5	25
7	25 → 27
9	30
11	40
12	35
13	40

1510 Z navigation down briefly, strayed off line.

1531 Z cable depths: #1 #3 #5 #7 #9 #11 #13
 18 21 23 22 22 21 21

Gun #	Depth
1	3.3m
3	3.0
5	5.1
7	4.8
9	4.7
12	6.1
14	18 ft
16	19
18	14
20	15

1540 Z Gun #3 being pulled

1541 Z v. low air press - 4 guns NF
1500-1600 psi

1545 Z only gun 3 out - air press. climbing steadily

1547 Z Air back up ~ 2000 psi

1544 Z ~~2400~~ stops logging on MASSCOMP

1552 Z " back-up online

1658 Z Gun #3 back in

1706 Z New Black Inc. Missed ~ 10 shots

1719 Z EOL #184

1757 Z SOL #216

1800 Z No New Time

1822 Z	Bird	Setting	Depth
	1	?	19
	3	.	20
	5		21
	7		20
	9		22
	11		21
	12		
	13		23

because Bruce reset DSS - No bird settings

1848 Gun #20 showed Not Firing a few times
Also early sometimes

JD 170 18 JUNE 92

2055Z SOL #216

2153Z SOL #183R, reshooting the previous line

2235Z

CABLE DEPTHS:

#1	#3	#5	#7	#9	#11	#13
18	23	22	21	23	22	21

GUN DEPTHS:

1	3	5	7	9	12	14	16	18	20
2.7m	3.6m	5.7m	5.4m	5.0m	5.6m	16ft	19ft	13ft	12ft

BIRD SETTINGS:

#1	#3	#5	#7	#9	#11	#12	#13
?	?	?	?	?	?	?	?

2314Z

GUN #18 NO FIRE PERIODICALLY

N SP #400

2345Z

ROLLING GUN #18

2350Z

CABLE DEPTHS:

#1	#3	#5	#7	#9	#11	#13
19	25	24	23	23	22	24

EW 9207 JD 171 / 19 JUNE '92

0017 Z EOL #183R

0017 Z SOL #184R, switched lines within 1 min.

0022 Z Gun #18 firing

0028 Z cable depths: #1 #3 #5 #7 #9 #11 #13
20 26 25 25 25 23 25

0032 Z Gun# Depth

1	2.8m
3	3.5
5	5.6
7	5.2
9	4.9
12	5.7
14	18 ft
16	20
18	16
20	17

0041 Z EOL #184R

0052 Z HS goes down

0057 Z HS restarted

0100 Z DGPS down for ~ 20 sec

0119 Z SOL #214

0124 Z cable depths: #1 #3 #5 #7 #9 #11 #13
20 24 23 23 23 23 24

Gun# Depth

1	2.7m
3	3.5
5	5.0
7	4.8
9	5.2
12	6.0
14	17 ft
16	19
18	16
20	17

EW9207 JD171/19 JUNE'92

0134 Z bird settings line 214:

#	setting
1	19
3	21
5	23
7	22
9	21
11	23
12	
13	24

0154 Z logging window only displayed GPS 1 and GPS2 updates

0201 Z DGPS down for about 10 sec

0209 Z Mancomp logging window operating again

0224 Z Cable depths: #1 #3 #5 #7 #9 #11 #13
19 22 23 21 23 23 22

Gunn#	Depth
1	3.5 m
3	2.9
5	5.2
7	5.0
9	5.3
12	6.2
14	17 ft
16	19
18	12
20	13

0303 Z Noticed that no bird settings have been set
- set up as for last line in this direction

Bird#	setting	depth
1	45	21
3	25	28
5	25	25
7	25	22
9	26	23
11	30	22
13	20	26

↗ #12, 25'

EW9207

JD 171 / 19 JUNE '92

0318 Z

Guns #7, #9 starting to show erratic firing
Revised bird settings

<u>Bird #</u>	<u>Setting</u>
1	45
3	22
5	22
7	25
9	26
11	33
12	33
13	17

0331 Z cable depths: #1 #3 #5 #7 #9 #11 #13

19 21 21 20 20 20 25

<u>Gun #</u>	<u>Depth</u>
1	3.8m
3	3.2
5	5.3
7	5.1
9	5.7
12	6.3
14	19 ft
16	21
18	14
20	14

0452 Z

SOL #180

0536 Z

New Black Inc.

Missed

1 sp

0703 Z

<u>Bird</u>	<u>Setting</u>	<u>Depth</u>
1	45	18
3	22	22
5	22	21
7	25	20
9	26	20
11	33	19
12	33	
13	17	20

EW 9207 171 19 JUN 92

0757 Z EOL #180

Gunnery pulling

out gun #9

0844 Z SOL #210

0923 Z

CABLE DEPTHS:

#1	#3	#5	#7	#9	#11	#13
20	22	22	20	20	20	25

GVN DEPTHS:

1	3	5	7	9	12	14	16	18	20
4.3m	4.2m	6.0m	5.2m	5.0m	6.4m	19ft	20ft	15ft	18ft

1221 Z still shooting line #210

cable depths:	#1	#3	#5	#7	#9	#11	#13
	20	20	21	18	18	17	24

Gun# Depth

1	4.0 m
3	4.5
5	6.0
7	5.3
9	5.1
12	5.6
14	15 ft
16	20
18	16
20	16

1227 Z birds #7,9,11 depths increased to 30

1239 Z change to shooting by distance

1258 Z EOL #210

1306 Z Gun #7 pulled out of water

1328 Z SOL testline, firing only Gun #14

1332 Z DGPS down

1342 Z Gun #7 back in water

1344 Z DGPS back up

1346 Z bird #11 depth increased to 34

1424 Z birds #11,12,13 depths increased by 5

1427 Z end of test line

EW 9207 171 19 JUN 92

1453 Z SOL #178

1508 Z cable depths: #1 #3 #5 #7 #9 #11 #13
17 21 21 20 21 18 17

Gun#	Depth
1	3.8m
3	3.0
5	5.4
7	4.7
9	5.0
12	6.0
14	17ft
16	19
18	16
20	17

bird settings line 178:

#	setting
1	45
3	25
5	25
7	30
9	30
11	39
12	30 \Rightarrow 35
13	35

1557 Z cable depths: #1 #3 #5 #7 #9 #11 #13
19 22 23 23 23 22 22

1634Z Gun #1 has an air leak - taking out for repairs.

1725Z Gun #1 put back in.

1752Z EOL #178

1832Z SOL #217A

1837 EOL #217A
Scooting over to resheet #209 B

JD 171 19 JUNE 92

1850Z SOL #209B

Nav Block inc. sp# 000 File # 1-7

1854Z Missed NL - no sp# 24 + 25

233Z EOL # 209 B 1SP 755

2300Z CABLE DEPTHS:

#1	#3	#5	#7	#9	#11	#13
20	24	24	22	21	19	22

GUN DEPTHS:

1	3	5	7	9	12	14	16	18	20
2.8m	3.0m	5.1m	4.7m	4.2m	5.9m	16ft	19ft	11ft	14ft

BIRD SETTINGS:

#1	#3	#5	#7	#9	#11	#12	#13
45	25	25	30	30	37	35	35

0000Z cable depths: #1 #3 #5 #7 #9 #11 #13
 20 24 26 25 25 21 23

Gun#	Depth
1	3.1m
3	3.6
5	4.9
7	5.2
9	4.6
12	6.3
14	16 ft
16	21
18	16
20	16

0000Z "NAV BLOCK INCOMPLETE" messages, SP #0

0004Z "NAV BLOCK INCOMPLETE" messages ended

0119Z EOL #176

0123Z gun window crashed

EW 9207 172 20 JUN 92

0153 Z SOL #208

0156 Z EOL #208, going too fast (almost 6K) + system couldn't keep up

0200 Z lose DGPS

0201 Z regain DGPS

0301 Z DGPS down briefly (~ 20 sec)

0305 Z SOL #208A

0309 Z cable depths: #1 #3 #5 #7 #9 #11 #13
 20 23 26 28 24 21 23

Gun# Depth

1	4.7
3	4.6
5	5.6
7	5.5
9	5.1
12	6.1
14	18
16	19
18	16
20	17

bird settings line #208A:

#	Setting
1	45 \Rightarrow 48
3	22 \Rightarrow 18
5	22 \Rightarrow 18
7	30 \Rightarrow 26
9	32 \Rightarrow 30
11	40
12	40
13	40 \Rightarrow 37

NB have a fairly strong following wind so streamer depth is fluctuating rapidly - can only limit fluctuation somewhat with bird control, but can't eliminate it

0340 Z PC02 partial not updated since 0147 Z

0434 Z missed NC

0610Z EOL #208A

0653Z SOL #175A

0719Z	Bird	Setting	Depth
	1	48	21
	3	23	26
	5	20	24
	7	26	24
	9	30	25
	11	40	25
	12	40	
	13	37	25

0820Z CABLE DEPTHS:

#1	#3	#5	#7	#9	#11	#13
19	20	18	19	20	19	18

GVN DEPTHS:

1	3	5	7	9	12	14	16	18	20
4.9m	3.5m	5.8m	4.8m	5.0m	5.9m	18ft	18ft	15ft	19ft

1150Z BIRD SETTINGS:

#1	#3	#5	#7	#9	#11	#12	#13
48	23	25	26	30	35	35	28
	↓	↓	↓				
	26	28	30				

CABLE DEPTHS:

#1	#3	#5	#7	#9	#11	#13
20	19	20	18	22	21	22

GVN DEPTHS:

1	3	5	7	9	12	14	16	18	20
5.9m	3.2m	5.3m	5.2m	5.6m	6.0m	19ft	19ft	16ft	16ft

EW 9207 172 20 JUN 92

1248 Z changed birds #7 + #9 depths to 33

cable depths: #1 #3 #5 #7 #9 #11 #13
 21 21 22 20 20 19 19

Gun#	Depth
1	4.6 m
3	4.1
5	6.0
7	5.2
9	5.0
12	5.8
14	19 ft
16	20
18	14
20	15

1327 Z DGPS goes down ~ SP# 804 / 805

1332 Z fire by time not working correctly

1334 Z EOL # 204

~1340 Z DGPS back up

1410 Z DGPS down momentarily - few secs. only

1433 Z SOL #172

1455 Z cable depths: #1 #3 #5 #7 #9 #11 #13
 21 25 24 24 26 23 26

Gun#	Depth
1	4.4
3	3.5
5	5.6
7	4.7
9	4.9
12	5.9
14	18
16	19
18	16
20	17

EW 9207 172 20 JUN 92

1507Z bird settings line #172:

#	setting
1	48
3	22 \Rightarrow 25
5	22 \Rightarrow 25
7	33
9	33
11	35
12	35
13	25

1644Z Compass Fault # 01 - 05
between sp #602 & 617

1736Z EOL #172

1826Z SOL #198

1849Z	Bird	setting	depth
	1	48	20
	3	23	21
	5	25	24
	7	33	22
	9	33	21
	11	38	21
	12	35	
	13	27	22

2130Z EOL #198

2206Z BIRD SETTINGS:

#1	#3	#5	#7	#9	#11	#12	#13
48	23	25	33	33	38	35	27

2220Z SOL #170

2230Z birds for ~~depth~~ line #170

Bird	13	12	11	9	7	5	3	1
Depth	32	35	38	33	33	25	23	48

EW9207

089

JD 172 / 20 June 92

2230Z GUN DEPTHS:

1	3	5	7	9	12	14	16	18	20
5.2m	3.3m	6.0m	4.9m	4.5m	5.8m	12ft	18ft	14ft	13ft

2300Z: CABLE DEPTHS: STW 4.2

#1	#3	#5	#7	#9	#11	#13
24	29	27	27	25	22	22

SPEED \bar{v} CABLE DEPTHS UNSTEADY

GUN DEPTHS:

1	3	5	7	9	12	14	16	18	20
4.4m	3.9m	6.1m	5.1m	4.1m	6.1m	13ft	14ft	16ft	14ft

BIRD SETTINGS:

#1	#3	#5	#7	#9	#11	#12	#13
48	20	25	33	33	38	35	32

↓

55

↓

20

2320 - Plotter (and mounts) crashed

0000Z - DGPS down briefly ~ 1min.

firing stopped between 23:59:58 and 00:03:09

0006Z - cable depths: #1 #3 #5 #7 #9 #11 #13

18 21 22 24 22 21 22

Gun# Depth

1	4.9m
3	3.9
5	6.1
7	5.1
9	4.7
12	5.9
14	19 ft
16	20
18	14
20	15

EW 9207 173 21 JUN 92

0114 Z cable depths: #1 #3 #5 #7 #9 #11 #13
 25 28 28 29 29 26 28

Gun#	Depth
1	4.8 m
3	3.4
5	5.4
7	4.9
9	5.2
12	6.4
14	19 ft
16	21
18	17
20	17

0128 Z EOL #170

0222 Z SOL #233

0233 Z cable depths: #1 #3 #5 #7 #9 #11 #13
 20 19 20 22 22 19 17

Gun#	Depth
1	4.7 m
3	4.8
5	5.5
7	5.1
9	4.7
12	5.6
14	18 ft
16	19
18	16
20	17

bird settings line #233:

#	setting
1	55
3	20
5	20
7	33
9	33
11	40
12	35 \Rightarrow 37
13	34 \Rightarrow 36

0331 Z cable depths: #1 #3 #5 #7 #9 #11 #13
 20 20 22 25 25 21 21

EW 9207 173 21 JUN 92

0333Z Gun# Depth

1	4.8
3	4.0
5	5.5
7	5.0
9	5.3
12	5.9
14	19
16	21
18	15
20	15

0428Z Air pressure a little low (1930-80)

0454Z Air pressure back up.

0531Z EOL #233

0625Z SOL #163

0629Z New Block Inc. Missed sp# 22-24

0649Z	Bird	Settling	Depth
	1	55	23
	3	20	22
	5	20	22
	7	25	23
	9	25	23
	11	40	23
	12	37	
	13	20	25

0746Z Gun #18 not firing. Pulling at

0915Z Gun #18 resumes firing

1019Z SOL #234

1303Z cable depths: #1 #3 #5 #7 #9 #11 #13

24 23 21 19 22 20 21

EW 9207 173 21 JUN 92

1304 Z Gun# Depth

1	4.2 m
3	3.2
5	4.8
7	4.1
9	5.1
12	6.9
14	17 ft
16	19
18	16
20	17

bird settings line #234:

#	Setting
1	55
3	25
5	25
7	25
9	25
11	40
12	37
13	25

1317 Z EOL #234

1325 Z DGPS down

1335 Z have DGPS back

1400 Z DGPS down briefly (~ 20 sec)

1413 Z since 1400Z, nav often down for several seconds

1421 Z SOL #165

1422 Z cable depths: #1 #3 #5 #7 #9 #11 #13

21 23 24 22 23 22 23

Gun#	Depth
1	4.7 m
3	3.8
5	5.1
7	4.7
9	4.8
12	6.4
14	20 ft
16	23
18	18
20	19

EW 9207 173 21 JUN 92

1426 Z bird settings line #165:

Setting

1	55
3	25
5	25
7	25
9	25
11	40
12	37
13	25

 1531 Z cable depths: #1 #3 #5 #7 #9 #11 #13
 23 23 21 16 22 23 20

Gun# Depth

1	4.5 m
3	3.6
5	5.7
7	5.5
9	5.1
12	6.0
14	18 ft
16	19
18	16
20	16

1740Z EOL #165

1804Z Slight problem w/ balloon - fixing while on turn

1841Z S.O.L # 235 @ SP #2

1850 Z	BIRD #	SETTING	DEPTH
	1	55	28
	3	25	29
	5	25	28
	7	25	25
	9	25	27
	11	40	26
	12	37	
	13	25	29

1856 Z

GUN DEPTHS :-

GUN #	DEPTH (m)	GUN #	DEPTH (Feet)
1	4.9	14	20
3	5.8	16	21
5	6.5	18	17
7	5.7	20	18
9	5.3		
12	6.4		

2155Z SOL #235

2242Z SOL #14X

2310Z BIRD SETTINGS:

#1	#3	#5	#7	#9	#11	#12	#13
50	25	27	27	30	40	30	30

CABLE DEPTHS:

#1	#3	#5	#7	#9	#11	#13
19	20	21	18	18	18	16

GUN DEPTHS:

1	3	5	7	9	12	14	16	18	20
3.2m	4.1m	4.5m	4.7m	4.8m	5.0m	18ft	19ft	17ft	15ft

2335Z GUN #20 NOT FIRING / BROKEN HOSE
PULLING GUN #20

2340Z BIRD SETTINGS:

#1	#3	#5	#7	#9	#11	#12	#13
50	25	27	27	30	40	35	35

0000Z DGPS down

- 30secs only

EW9207

JD 174 / 22 June '92

0010 Z cable depths: #1 #3 #5 #7 #9 #11 #13
 18 19 21 19 21 22 21

Gun# Depth

1 3.6 m
 3 3.9
 5 5.5
 7 4.5
 9 5.1
 12 5.8
 14 19 ft
 16 21
 18 15
 20 17

0035 Z Gun#20 firing again

0112 Z cable depths: #1 #3 #5 #7 #9 #11 #13
 21 24 25 23 22 22 25

Gun# Depth

1 4.8 m
 3 4.3
 5 5.2
 7 5.6
 9 6.5
 12 6.5
 14 18 ft
 16 20
 18 18
 20 19

0130 Z DGPS on 4200 GPS #1 down for several minutes

0153 Z EOL #167

0251 Z SOL #236

Cable depths: #1 #3 #5 #7 #9 #11 #13
 24 25 24 23 22 24 26

Gun# Depth

1 5.1 m
 3 3.7
 5 6.4
 7 5.4
 9 5.2
 12 6.8
 14 20 ft
 16 22
 18 15
 20 16

EW 9207 174 22 JUN 92

02552 bird settings line #236:

setting

1	50
3	22
5	27
7	27
9	30
11	40
12	35 \Rightarrow 30
13	35 \Rightarrow 30

03492 cable depths: #1 #3 #5 #7 #9 #11 #13

21 24 22 22 23 21 25

Gun# Depth

1	4.6 m
3	4.2
5	6.0
7	5.4
9	5.3
12	7.4
14	19 ft
16	20
18	17
20	18

05532

BIRD #	SETTING	DEPTH
1	50	24
3	22	25
5	22	24
7	27	24
9	30	24
11	40	25
12	30	
13	25	20

05542

GUN #	DEPTH (m)	GUN #	DEPTH (feet)
1	4.2	14	19
3	4.5	16	21
5	6.5	18	17
7	5.3	20	18
9	5.2		
12	6.3		

EW0207, 174 JD, JUNE 022, 1992

0554Z SOL # 236 @ CP # 836

0658Z SOL # 168A by the Mac system
The times logged ~~FE~~ From the
Truetime are now in Zulu, rather
than local time, From the 2nd
Goes clock with antenna on the
A dock after rail.

1012Z SOL # 168A

1130Z DGPS GOES DOWN, SATELLITES Recovered,
display recovered at 1037

1101Z SOL # 237

1140Z BIRD	1	3	5	7	9	11	12	13
SET DEPTH	50	27	30	30	30	40	30	33
ACT. DEPTH	21	23	22	23	20	19	3	20

1114Z GUN 18 goes down, fires 2ms ^{ms} early or
not at all
Shot 275 & 276 1.2 ms late

1204Z Gun #18 pulled out of water

1236Z cable depths: #1 #3 #5 #7 #9 #11 #13
21 24 25 22 22 21 20

Gun#	Depth
1	4.8m
3	4.0
5	5.9
7	5.4
9	4.9
12	6.2
14	18 ft
16	20
18	0
20	26

1301Z Gun #18 firing again

" " Companion 1 → S inc. fault starting @ SP# 609
and repeated every 2 sp.

1315Z SP#630 end of companion faults

EW 9207 174 22 JUN 92

1319z diff. GPS down briefly

1324z EOL # 237

1417z SOL # 183 B

1426z cable depths: #1 #3 #5 #7 #9 #11 #13
 19 23 23 20 20 20 22

Gun#	Depth
1	4.0 m
3	3.4
5	5.3
7	5.6
9	4.8
12	6.0
14	19 ft
16	20
18	15
20	18

bird settings line 183B:

#	setting
1	50
3	27
5	30
7	30
9	30
11	40
12	30
13	33

1435z Seismic Time + Gun Depth not updated since 1416z

1437z " " updating again

1516z cable depths: #1 #3 #5 #7 #9 #11 #13
 20 21 22 18 18 17 18

Gun#	Depth
1	3.8 m
3	3.3
5	5.1
7	4.4
9	4.6
12	5.7
14	17 ft
16	21
18	13
20	13

1641z EOL # 183 B

1816Z Engine room called - pressure looks a little low. Checking w/ gunners if there is an air leak

✓ w/ gunner - No air leaks - looks like plenty of pressure to them

1822Z	Bird	Setting	Depth
	1	50	21
	3	27	21
	5	30	22
	7	30	21
	9	30	22
	11	40	19
	12	30	
	13	33	19

2012Z SOL #238

GETTING ~~READY~~ READY TO DEPLOY OBS'S

~~20~~ 2203

1st OBS down @ { 22:03:32
N 15 31.5496
W 58 44.7999

~~20~~ ~~OBS~~ ~~22:43:15~~

2nd

22:23:00
N 15° 31.5592
W 58 43.9320

3rd

22:43:18
N 15° 31.7717
W 58° 42.9771

0021 Z SOL #237 A

0025 Z Cable depths: #1 #3 #5 #7 #9 #11 #13
20 20 18 20 19 19 19

EW 9207 175 23 JUN 92

0027 Z Gun# Depth bird settings line 237A:

Gun#	Depth	#	Setting
1	4.3 m	1	50
3	4.3	3	30
5	5.1	5	33
7	5.1	7	30
9	5.0	9	30
12	6.4	11	40
14	19 ft	12	30
16	21	13	30
18	15		
20	16		

0031 Z Gun#18 firing/not firing since SOL

0051 Z Gun#18 still not firing every 8-10 shots

~0058 Z Gun#18 firing regularly

0128 Z missed shot somewhere (SP and File # off by 3),
it was not logged

0136 Z EOL #237A

0229 Z SOL #178A

0233 Z cable depths: #1 #3 #5 #7 #9 #11 #13
20 23 20 20 20 20 23

Gun#	Depth	#	Setting
1	4.3 m	1	50
3	4.3	3	30
5	5.2	5	33
7	5.2	7	30
9	4.6	9	30
12	6.1	11	40
14	18 ft	12	30
16	19	13	30
18	13		
20	14		

0331 Z cable depths: #1 #3 #5 #7 #9 #11 #13
20 22 20 21 22 22 24

Gun#	Depth
1	4.9 m
3	4.4
5	6.3
7	5.6
9	4.9
12	5.7
14	20 ft
16	22
18	16
20	17

JD 175 / JUNE 23 1992

0414Z

LINE # 178A

GUNS MISFIRED FOR SP # 460; BAD TIMEBREAK,
 NAVIGATION BLOCK INCOMPLETE,
 + 564

0536Z

EOL # 178A

0554Z

SOL # 999

- Test for Mark - No guns firing

0558Z

EOL # 999

Tape #397 will be reused
 for next line - but no tape #398

in other words

NO TAPE #397

0618Z

SOL # 202

OBS line

0647Z

Bird

Setting

Depth

1

50

20

3

30

18

5

40

13

7

30

17

9

30

18

11

40

17

12

30

13

30

16

0918

EOL # 202

OBS LINE

0927

SOL # 999

NO TAPE #03

0957Z

SOL # 161A

1255Z

cable depths: #1 #3 #5 #7 #9 #11 #13

22 24 20 21 23 23 26

Gun# Depth

1

4.3m

3

3.9

5

5.4

7

4.2

9

5.8

12

6.0

14

16 ft

16

20

18

16

20

16

EW 9207 175 23 JUN 92

1259Z EOL #161A

1307Z SOL #999, guns are off - this is a test line for Mark W.

1432Z EOL #999, no tapes #409 or 410

1436Z SOL #200

1441Z cable depths: #1 #3 #5 #7 #9 #11 #13
20 21 16 17 18 20 19

Gun#	Depth	bird settings line #200:
1	4.4 m	# setting
3	4.0	1 50
5	6.9	3 30 \Rightarrow 33
7	5.3	5 40 \Rightarrow 45
9	5.0	7 30 \Rightarrow 33 = 35
12	6.2	9 30
14	17 ft	11 40
16	19	12 35 \Rightarrow 38
18	16	13 35 \Rightarrow 38
20	16	

1537Z cable depths: #1 #3 #5 #7 #9 #11 #13
20 22 20 25 23 21 20

Gun#	Depth
1	4.5 m
3	3.4
5	6.3
7	4.9
9	4.7
12	6.1
14	18 ft
16	19
18	16
20	17

1735Z EOL #200

1816Z SOL #174

1923Z	Bird	Setting	Depth
	1	50	21
	3	33	25
	5	45	23
	7	35	24
	9	30	23
	11	40	23
	12	38	
	13	38	26

JD 175 23 JUN 92

003

2115 Z

EOL #174, 3 missed shots in line: 1, 2, & 136
or shotpoints 3

2200

#1 gun (80 in³) bad air hose, bad balloon, etc.,
being rebuilt between lines 174 & 206

2246 gun #1 going back in, 24 min till SOL #206

2311 Z SOL #206

0005 Z cable depths: #1 #3 #5 #7 #9 #11 #13
21 24 23 25 21 21 19

Gun#	Depth	bird settings line #206:	
1	4.1 m	#	setting
3	3.8	1	50
5	6.7	3	32
7	5.6	5	35
9	4.9	7	35 → 30
12	6.7	9	30
14	18 ft	11	40
16	20	12	38
18	18	13	38
20	18		

0017 Z Gun #20 briefly not firing, then consistently early or late

0120 Z cable depths: #1 #3 #5 #7 #9 #11 #13
23 28 28 27 25 23 21

Gun#	Depth
1	3.9 m
3	4.2
5	4.9
7	4.8
9	4.7
12	6.4
14	18 ft
16	21
18	16
20	17

0214 Z EOL #206

0251 Z SOL #182

cable depths:	#1	#3	#5	#7	#9	#11	#13
	19	22	20	23	25	23	23

EW 9207 176 24 JUN 92

0254 Z Gun# Depth bird settings line #182:

Gun#	Depth	#	setting
1	4.2 m	1	50
3	4.0	3	32
5	5.1	5	35
7	5.1	7	30
9	4.9	9	30
12	6.2	11	40
14	17 ft	12	38
16	20	13	38
18	14		
20	15		

0340 Z cable depths: #1 #3 #5 #7 #9 #11 #13
20 23 20 21 22 21 20

Gun# Depth

1	4.3 m
3	3.9
5	5.1
7	4.6
9	4.1
12	5.1
14	15 ft
16	17
18	13
20	14

0539 Z

STREAMER ;

LINE # 182 (CONTINUED)

BIRD #	SETTING	DEPTH
1	50	21
3	32	26
5	35	22
7	30	23
9	30	24
11	40	24
13	38	
13	40	21

0541 Z

GUN # DEPTH (m)

1	4.2
3	4.8
5	7.3
7	5.6
9	4.7
12	5.5

GUN # DEPTH (feet)

14	19
16	21
18	16
20	17

0556 Z

EOL # 182 @ SP # 837

EW9207 176 24 JUN 92

0636 Z SOL # 218

0650 Z

BIRD #	SETTING	DEPTH
1	50	22
3	32	25
5	35	19
7	30	21
9	30	19
11	40	20
12	38	
13	40	18

0651 Z

GUN #	DEPTH (m)	GUN #	DEPTH (ft.)
1	4.0	14	18
3	3.6	16	19
5	6.2	18	14
7	4.8	20	13
9	4.9		
12	6.7		

0800 Z

Tape drive #1 cleaned.

0930 Z COMPASS FAULT #01, #02, #03, #04, #05 messages
every other shot until 09:33:43

SHOTS 806 → 820

0937 EOL # 218

1014 SOL # 188

EW 9207 176 24 JUN 92

1203 Z cable depths: #1 #3 #5 #7 #9 #11 #13
 20 21 15 19 21 22 25

Gun#	Depth	bird settings line #188:	
		#	setting
1	4.7 m		
3	3.8	1	50
5	5.3	3	32
7	5.1	5	35
9	5.1	7	30
12	6.1	9	30
14	16 ft	11	40
16	20	12	38
18	16	13	40
20	16		

1311 Z cable depths: #1 #3 #5 #7 #9 #11 #13
 20 24 19 21 21 20 22

Gun#	Depth
1	4.9 m
3	3.6
5	5.6
7	4.9
9	4.0
12	5.5
14	14 ft
16	20
18	15
20	15

1318 Z EOL #188

1355 Z SOL #224

1400 Z DGPS down for ~20 sec

1402 Z cable depths: #1 #3 #5 #7 #9 #11 #13
 23 25 24 25 26 24 23

Gun#	Depth
1	3.9 m
3	4.1
5	(2.4)
7	5.7
9	4.5
12	6.2
14	15 ft
16	20
18	14
20	13

1503 Z cable depths: #1 #3 #5 #7 #9 #11 #13
 21 22 19 21 21 20 20

EW 9207 176 24 JUN 92

1504 Z Gun# Depth bird settings line #224:

	Gun#	Depth	#	Setting
	1	4.7 m	1	50
	3	4.0	3	32
	5	(11.9)	5	35
	7	4.9	7	30
	9	4.7	9	30
	12	6.5	11	40
	14	13 ft	12	38
	16	20	13	40
	18	14		
	20	13		

1527 Z Gun#1 and Gun#18 not firing

1529 Z Gun#18 firing, Gun#1 still not firing

1535 Z Gun#1 has leak in hose

1553 Z EOL # 224, line aborted at SP#535 due to gun trouble

1630 Z Gun#1 fixed but gun#9 still pulled out -
call gunners when we finish turn so they can
put back in

1754 Z SOL # 224A

1806 Z

BIRD #	SETTINGS (m)	DEPTH (m)
1	50	23
3	32	26
5	35	25
7	30	25
9	30	23
11	40	22
12	58	
13	40	21

1807 Z

GUN #	DEPTH (m)
1	4.8
3	4.3
5	(12.3)
7	5.3
9	4.8
12	6.5

GUN #	DEPTH (feet)
14	18
16	21
18	16
20	15

EW9207 176 24 Jun 1992

LINE # 224A (CONTD.)

1834Z Gun#1 shows "N" + "L" + "E" often. Called
gunners (sp #180)1850Z Gun#1 is firing, but weak - Bruce Mike works
on it

1900Z Gun#16 now showing N (sp #295)

Gun#	Depth
1	4.9
3	4.3
5	13.2
7	4.8
9	4.9
12	6.4
14	15
16	3
18	16
20	15

- pulled out

1935Z EOL # 224A

Gun#16 will be going back in water for next line

2015Z SOL #194

CABLE DEPTHS:

#1	#3	#5	#7	#9	#11	#13
19	22	19	20	20	21	22

2130Z GUN #9 LEAKING, PULLING IT IN

2142Z ABORTED LINE #194 due to GUN #9 FAILURE

EN9207

009

JD 176 / 24 June 92

2254Z

SOL #194A

2332Z

CABLE DEPTHS:

#1	#3	#5	#7	#9	#11	#13
22	28	24	26	26	23	24

GUN DEPTHS

1	3	5	7	9	12	14	16	18	20
4.5	3.8	2.6	4.3	4.4	5.9	19ft	20ft	14ft	17ft



IS IT THIS DEEP, REALLY?

(DEEP STARTED ~ 1400Z)

2352Z

PULLING GUN #5 TO CHECK BALLOON

2356Z

BIRD SETTINGS:

#1	#3	#5	#7	#9	#11	#12	#13
50	32	35	30	30	40	38	40

JD 177 / 25 June 1992

0032Z cable depths: #1 #3 #5 #7 #9 #11 #13
20 23 21 23 25 23 21

Gun#	Depth
1	3.8 m
3	3.6
5	0.4
7	6.1
9	4.3
12	6.3
14	20 ft
16	20
18	16
20	17

0050Z EOL # 194A

0200Z DGPS down for about 20sec

0233Z SOL # 212

0236Z cable depths: #1 #3 #5 #7 #9 #11 #13
22 25 21 23 22 22 20

Gun#	Depth	bird settings line #212:
1	4.0 m	# setting
3	2.9	1 50
5	5.4	3 32
7	4.3	5 37
9	4.4	7 30
12	5.7	9 30
14	18 ft	11 40
16	20	12 38
18	16	13 40
20	16	

0335Z cable depths: #1 #3 #5 #7 #9 #11 #13
21 22 19 20 21 21 20

Gun#	Depth
1	4.5 m
3	3.7
5	4.7
7	3.8
9	3.9
12	5.8
14	19 ft
16	19
18	11
20	11

0544 Z EOL # 212

0624 Z BAD CAN #17; STREAMER RESET.

0632 Z SOL #160

0634 Z New Black Inc. No sp# 12 + 14

0640 Z " " No sp# 41

0748 Z New Block No sp# 253, 254, 255
 0736 Z 293, 294, 296

0747 Z	Bird	Setting	Depth
	1	50	23
	3	32	30
	5	37	28
	7	30	28
	9	30	28
	11	40	25
	12	38	
	13	40	27

0750 Z	Gunn #	Depth
	1	3.9
	3	4.1
	5	5.1
	7	5.7
	9	4.6
	12	6.0
	14	18
	16	21
	18	18
	20	16

0937 Z EOL #160

JD 177 25 JUNE 92

0948Z

GUN: 1 3 5 7 9 12 14 16 18 20
 DEPTH: 3.8m 3.8m 6.1m 4.6m 4.7m 17 ft. 20 ft. 14 ft. 18 ft. 18 ft.
 5.7m

BIRDS { SET TO: 1/50 3/32 5/37 7/30 9/30 11/40 12/38 13/40
 AT: 1/20 3/23 5/20 7/24 9/26 11/26 12/? 13/30

1022Z COMPASS 1-6 FAVCT msg repeated 5/6 times

1040Z GUNS 14 & 18 off line

1230Z gunners rebuilt Guns #5 and #14

1315Z SOL #232A

1318Z cable depths: #1 #3 #5 #7 #9 #11 #13
 20 21 17 18 18 20 17

Gun# Depth bird settings line 232A:
 1 3.8m # setting
 3 3.4 1 50
 5 4.9 3 32
 7 4.7 5 37
 9 4.5 7 32
 12 5.9 9 32
 14 18 ft 11 40 \Rightarrow 42
 16 20 12 38 \Rightarrow 40 \Rightarrow 42
 18 14 13 40 \Rightarrow 42 \Rightarrow 44
 20 14

1330Z ~ SP71 lose DGPS - fine-by-line 13.2s

- not only bad constellation but not getting satellite updates

1332Z ~ file #78 Nav. DGPS back

1420Z cable depths: #1 #3 #5 #7 #9 #11 #13
 17 20 20 22 22 22 17

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1422 Z	Gun #	Depth
	1	4.0 m
	3	3.9
	5	6.1
	7	5.4
	9	4.2
	12	5.7
	14	18 ft
	16	19
	18	16
	20	16

1531 Z	Cable	depths:	#1	#3	#5	#7	#9	#11	#13
			18	18	15	21	22	21	15

Gun #	Depth
1	3.3 m
3	3.3
5	5.7
7	5.4
9	8.1
12	6.3
14	16 ft
16	19
18	17
20	18

1556 Z Gun #9 9-10m deep

1601 Z Gun #9 pulled

DGPS down briefly

1603 Z Gun #9 back in

1606 Z Gun #3 not firing, have to pull it

1615 Z EOL #232A

1615 Z Heading around to complete shoot of 238 -
previously shut to sp# 727 then discontinued
to head to OBS drop off positions

1809 Z SOL # 238A

Gun #9 back in water

1825 RTCM problem/no updates

1832 Navigation back to normal

1839 EOL #238A

1840Z Two left turns + heading to line #20

2117Z CABLE DEPTHS:

#1	#3	#5	#7	#9	#11	#13
20	25	23	25	26	24	22

turning
↙

GUN DEPTHS:

1	3	5	7	9	12	14	16	18	20
4.7m	5.0m	6.3m	5.8m	4.0m	6.4m	19ft	18ft	18ft	20ft

BIRD SETTINGS:

#1	#3	#5	#7	#9	#11	#12	#13
50	32	37	32	32	42	42	44

2151Z SOL #30

2228Z EOL #30

2257Z SOL #40

2300Z CABLE DEPTHS:

#1	#3	#5	#7	#9	#11	#13
24	31	29	28	23	20	14

GUN DEPTHS:

1	3	5	7	9	12	14	16	18	20
2.9m	3.7m	5.2m	5.6m	3.0m	6.0m	16ft	16ft	15ft	13ft

TIME OF "OBS SHOTPOINTS" : { 23:16:47 SP#94
FOR LINE #40 { 23:17:00 SP#95
{ 23:17:13 SP#96

EOL #40 2333Z

2340Z, FANTAIL REPORTS GUN HUNG UP ON STREAMER.

2351 Reset birds in front of streamer to 50' to

JD 178 25 JUNE 72

attempt to free the streamer

0008 Z DGPS down, GPS 4200 #1 has no satellites

0009 Z GPS 4200 #2 back up, #1 has satellites but isn't tracking any

0012 Z 4200 #1 and #2 both back up

0020 Z brought birds at front of cable back up

0102 Z SOL #50

0108 Z cable depths: #1 #3 #5 #7 #9 #11 #13
21 23 24 26 29 27 24

Gun#	Depth	bird settings line #50:
1	4.0m	# setting
3	3.5	1 50
5	5.8	3 32
7	5.0	5 37
9	4.5	7 32
12	5.5	9 32
14	17ft	11 42
16	20	12 42
18	15	13 44
20	15	

0127 SP#117 is the shotpoint at true calcamp plotter shows us at OBS2 but... there is about 2min delay on plotter.

i.e. logged SP#117 is ~2min later than closest SP# to OBS2.

0145 Z EOL #50

0200 Z DGPS down for ~1min.

0223 Z SOL #60

0226 Z cable depths: #1 #3 #5 #7 #9 #11 #13
25 28 20 24 25 26 22

Gun#	Depth	bird settings line #60:
1	5.0m	# setting
3	4.8	1 50
5	6.0	3 32 \Rightarrow 30
7	5.5	5 37 \Rightarrow 35
9	4.3	7 32
12	6.6	9 32
14	20ft	11 42
16	22	12 42
18	16	13 44
20	17	

EW 9207 JD 178 26 JUN 92

0237Z Streamer deep, increasing speed, changed birds #3 + #5 depths

0244:35Z SP#97 bird60 closest SP# to OBS3 (realtime - no delay)

0250Z Gun #20 firing early + late + occasionally not firing

0303Z EOL #60

0352Z SOL #70, Gun #20 turned off

0356Z cable depths: #1 #3 #5 #7 #9 #11 #13
18 20 21 24 23 22 20

Gun# Depth

1	4.7 m
3	4.4
5	6.3
7	5.4
9	4.4
12	5.9
14	17 ft
16	19
18	16
20	17

0428Z EOL #70

0507Z SOL #80

0547Z EOL #80

0715Z SOL #191A

0724Z	Bird #	Setting	Depth
	1	50	19
	3	30	22
	5	35	21
	7	32	25
	9	32	25
	11	42	21
	12	42	
	13	44	22

0733Z Line 191A

Gun#	Depth
1	4.9 (m)
3	4.3 "
5	6.8 "
7	4.6 "
9	5.4 "
12	6.2 "
14	17'
16	19'
18	15'
20	15'

Gun # 20 misfired for SD # 133, 140, 141, 150, 156, 158, 163,

0750Z EOL # 191A

0835Z CABLE DEPTHS:

#:	1	3	5	7	9	11	13
	20	22	23	23	24	23	20

approaching SOL #239

0836Z SOL #239

gun #20 still occasionally misfiring

0945Z DSS-240 crash "ACQUISITION CODE = E060"

STREAMER RESET

RECOVERY SUCCESSFUL

10:21Z GUN DEPTHS

1	3	5	7	9	12	14	16	18	20
3.9m	4.1m	6.8m	4.6m	4.6m	6.0m	19ft	21ft	15ft	16ft

EW9207

018

JD 17B / 26 June 92

1021Z DSS-246 CRASHED / RESTARTED 1022Z

missed 4 shots

"ACQUISITION CODE = E020"

CABLE DEPTHS:

#1	3	5	7	9	11	13
21	24	23	25	25	23	19

BIRD SETTINGS:

1	3	5	7	9	11	12	13
50	30	35	32	32	42	42	44

1135Z

GUN #:	1	3	5	7	9	12	14	16	18	20
DEPTH:	3.8	3.8	4.5	5.5	6.0	6.8	12	19	12	12

m ft

#	1	3	5	7	9	11	12	13
BIRDS SETTING	50	30	35	32	32	42	42	44
DEPTH	23	25	24	25	25	22		19

1222Z had to reset streamer during run-in to line #159

1231Z SOL #159

cable depths: #1 #3 #5 #7 #9 #11 #13

19 23 23 25 24 23 20

Gun# Depth

1	3.7m
3	4.3
5	6.4
7	4.9
9	5.0
12	5.7
14	16 ft
16	19
18	14
20	13

bird settings line #159:

#	setting
1	50
3	30
5	35
7	32
9	32
11	42
12	42
13	44

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1307z Gun #12 showing occasional "No Fire"

1325Z cable depths: #1 #3 #5 #7 #9 #11 #13
21 25 22 23 23 24 22

Gun#	Depth
1	3.8 m
3	3.7
5	5.2
7	5.1
9	5.2
12	5.6
14	16 ft
16	18
18	15
20	16

1334Z EOL #159, aborted due to leak in Gun #12, making U-turn to reshoot line

1400Z, DGPS down briefly (~20s)

1413Z COMPASS #1-5 FAULT messages

1434Z SOL #204 A

1506Z cable depths: #1 #3 #5 #7 #9 #11 #13
22 24 21 20 20 21 21

Gun#	Depth	bird settings #204A	
1	3.3 m	#	setting
3	3.4	1	50
5	4.2	3	30
7	4.3	5	35
9	5.0	7	32
12	5.9	9	32
14	12 ft	11	42
16	19	12	42
18	16	13	44
20	17		

15:13Z EOL #204A

1605Z SOL #159A

BIRD #	SETTING	DEPTH	BIRD #	SETTING	DEPTH
1	50	23	9	32	27
3	30	27	11	42	23
5	35	26	12	42	
7	32	27	13	44	20

#W9207 JD 178 26 JUNE 1992

LINE 159A (CONTD.)

1659Z

GUN # DEPTH

1	4.2
3	4.8
5	6.2
7	5.8
9	5.8
12	5.6

GUN # DEPTH

14	18
16	20
18	21
20	20

1715Z - Bruce working on profiler
 1730Z - profiler back on

1913Z EOL # 159A

2008Z GUN #20 appears as N (no fire) at end
 of LINE #159A

2013Z - WARM UP FOR LINE #240, GUN #20 still
 not firing, on line vt 2014

2018Z - SOL #240

2044Z - GUN #20 NOT FIRING
 GUN #20 PULLED

2120Z - CABLE DEPTHS:

1	3	5	7	9	11	13
21	22	20	23	25	23	19

GUN DEPTHS:

1	3	5	7	9	12	14	16	18	20
3.2m	4.5m	5.8m	5.6m	5.1m	6.1m	17ft	20ft	17ft	16ft

JD 178 / 26 June 92

2122Z BIRD SETTINGS:

1	3	5	7	9	11	12	13
50	30	35	32	32	42	42	45

2123Z GUN #20 BACK IN WATER
& ON LINE

2158Z recorded acquisition code #040

2202Z DSS-240 CRASH

"ACQUISITION CODE = 8020"

"STREAMER COMPASS ACQUISITION FAILED"

missed 4 shots; 460-463

2213Z DSS-240 CRASH

"ACQUISITION CODE = 8020"

"BAD CAN 010"

"COMPASS FAULT #5 1-5" repeated
every shot

miss 3 shots; 505-507

2216Z BRUCE DSS-240 CRASH

"ACQUISITION CODE = ED20"

missed 2 shots; 518-519

EW 9207

022

JD 178 / 26 June 92

2220z DSS-240 CRASH

"ABORTION CODE = 8020"

missed 6 shots: 535-540

22:35:38 SP# 597, F 577, Line 240 ABORTED

JD 179 / 27 JUNE '92

From EOL#240 to ~ 0229z - work on MCS system
in lab to fix streamer (DSS240) problem

0259z : Getting Compass 1-5 faults on every other
update of MCS logging on mancamp

0305z : Compass fault message stops

0329z SOL #158 NB file #1 - first recorded shot - was at ~ SP location
7 along the line ie. we missed 6 locations

03:30:51z SP#9 file #8 first "good" shot

~~ABORT~~

0338z cable depths: #1 #3 #5 #7 #9 #11 #13
23 29 27 29 30 27 27

EW 9207 JD 179 27 JUN 92

0340 Z Gun# Depth bird settings line #158:

Gun#	Depth	#	setting
1	4.0 m	1	50
3	4.3	3	30
5	6.6	5	35
7	5.3	7	32
9	4.1	9	32
12	5.4	11	42
14	19 ft	12	42
16	21	13	45
18	13		
20	13		

②

0636 Z EOL#158

Pulling out guns + streamer to go pick up OBS's

1137 - TAPE NO.'s 499 & 500 → VOID.
 No such tapes exist, they were sonobuoy test tapes.

1218 Z All guns in water

1230 Z at sonobuoy^{#2} launch: lat N 15 31.06, long W 58 42.6
 1233 Z beginning turn
 1305 Z begin shooting, Gun#9 not firing
 1314 Z Gun#9 firing again
 1322 Z Steady carrier signal, ~one mile away from sonobuoy
 1327 Z 0.8 miles away from sonobuoy
 1329 Z Several hundred yards from sonobuoy + can't hear it
 1331 Z ~100 yards from sonobuoy
 1343 Z lat N 15° 31.31239, long W 58° 42.9169, launched military sonobuoy #3
 1359 Z begin turn
 1412 Z finish turn, new course 080
 1424 Z SOL # 999 A
 1448 Z Sonobuoy 0.25 miles away
 1501 Z lat N 15° 31.3605, long W 58° 41.9495, Sonobuoy #4 launched about 100 m from sonobuoy #2

EW 9207 JD 179 27 JUN 92

1521 Z EOL #999 A

1531 Z finish turn

1535 Z SOL #999 B

1549 SP #66 - closest approach to SB #4

1607 Z EOL #999 B

1641 Z SOL #999 C

1658 EOL #999 C Not successful
going to pull everything in1740 Z Turning around to pick up sonobuoys
Guns are in.

1806 Z Picking up first sonobuoy

1830 Z Putting streamer back out

1945 Z Streamer out

2236 Z SOL #240 A

CABLE DEPTHS:

1	3	5	7	9	11	13
22	26	25	24	22	20	21

BIRD SETTINGS:

1	3	5	7	9	11	12	13
40	20	25	25	25	35	30	17

GUN DEPTHS:

1	3	5	7	9	12	14	16	18	20
4.0m	4.0m	5.2m	5.4m	5.7m	6.6m	19ft	20ft	18ft	17ft

EW 9207 JD 179 / 27 JUNE 92

2312 BIRD #13 from 17 to 20JD 180 / 28 JUNE '92

0000Z DGPS goes down

0003Z hav appears to have stabilized after 9 or 10 missed shots

0005Z cable depths: #1 #3 #5 #7 #9 #11 #13
18 18 20 20 18 19 21

Gun#	Depth
1	3.4 m
3	5.9
5	5.1
7	5.2
9	5.3
12	6.1
14	19 ft
16	20
18	18
20	19

0025Z EOL #240A

0045Z Had to reset streamer during the turn

0125Z SOL #157

0132Z cable depths: #1 #3 #5 #7 #9 #11 #13
19 24 23 23 22 22 22

Gun#	Depth
1	4.8 m
3	4.4
5	5.4
7	5.4
9	5.6
12	6.0
14	17 ft
16	19
18	18
20	20

EW9207

JD 180 / 28 JUNE '92

0202z Cable depths / bird settings

CAN#	<u>1</u>	<u>2</u>	<u>5</u>	<u>7</u>	<u>9</u>	<u>11</u>	<u>12</u>	<u>13</u>
DEPTH	23	28	29	29	27	24	-	25
SETTING	45	22	27	27	29	37	33	22

0205z Gun depths:

#	<u>1</u>	<u>3</u>	<u>5</u>	<u>7</u>	<u>9</u>	<u>12</u>	<u>14</u>	<u>16</u>	<u>18</u>	<u>20</u>
	3.8	4.0	5.8	5.3	5.8	5.6	20	20	17	18
	metres →					feet →				

0320z Cable depths:

Can	<u>#1</u>	<u>2</u>	<u>5</u>	<u>7</u>	<u>9</u>	<u>11</u>	<u>12</u>	<u>13</u>
depth (ft)	21	22	23	23	21	20	-	22
bird setting	45	22	27	27	29	40	33	22

Gun depths:

Gun#	<u>1</u>	<u>3</u>	<u>5</u>	<u>7</u>	<u>9</u>	<u>12</u>	<u>14</u>	<u>16</u>	<u>18</u>	<u>20</u>
depth	4.2	4.1	6.0	5.7	4.8	5.8	20	20	17	19
	m →					ft →				

0344z ~ SP # 599 - Noticed that XTLOG had not
 been started on the MAC - started now 0344z
 at the SOL

EW9207

JD180 / 28 June '92

0738:17 Z EOL # 157

0547 Z

BIRD #	SETTING	DEPTH (ft.)
1	45	22
3	22	21
5	27	19
7	27	20
9	29	17
11	40	18
12	33	
13	22	20

0548 Z

GUN #	DEPTH (ft.)	GUN #	DEPTH (m.)
1	3.9	14	19
3	4.2	16	20
5	5.1	18	16
7	5.0	20	16
9	5.3		
12	5.8		

0800 Z - Birds set as above, but way too high; #7 \approx 14 ft. Slowed boat speed, adjusted depth. (SOG was at about 4.5 kt.

0853 Z - EOL # 241

0942 Z - SOL # 156

#	1	3	5	7	9	11	12	13
BIRDS SET	45	25	35	50	35	40	33	30
DEP	22	24	24	20	20	20		22

GUNS #	1	3	5	7	9	12	14	16	18	20
	3.4m	3.8m	6.0m	6.0m	5.3m	6.0m	18ft	18ft	18ft	18ft

EW9207 JD180 / 28 June 92

1021Z CABLE DEPTHS:

1	3	5	7	9	11	13
22	24	23	24	23	23	26

1023Z DSS-240 CRASH

"ACQUISITION CODE = E020"

1024Z DSS-240 RESTARTED

missed 4 shots 189-192

1208Z cable depths: #1 #3 #5 #7 #9 #11 #13

20 22 22 23 23 23 25

Gun#	Depth
1	3.5 m
3	3.4
5	5.4
7	6.1
9	5.4
12	6.0
14	15 ft
16	20
18	18
20	20

1236Z Gun #16 not firing, has a leak, being pulled

1240Z Guns #9, 12, 18 not firing for several shots

1250Z EOL# 156

1304Z had to reset streamer

1351Z SOL #224B

1354Z cable depths: #1 #3 #5 #7 #9 #11 #13

22 22 19 18 17 16 16

Gun#	Depth
1	3.2 m
3	3.0
5	4.7
7	4.6
9	5.3
12	6.0
14	18 ft
16	20
18	18
20	19

EW9207

JD 180 / 28 JUNE '92

1400Z DGPS down on the hour - <1min. duration

1416Z bird settings line # 224B:

#	setting
1	45
3	25 \Rightarrow 27
5	25 \Rightarrow 27
7	25
9	35
11	42
12	39
13	30

1516Z cable depths: #1 #3 #5 #7 #9 #11 #13
 21 19 21 19 22 20 21

Gunn#	Depth
1	3.5m
3	3.3
5	4.9
7	5.1
9	5.2
12	6.0
14	14 ft
16	19
18	18
20	17

1700Z EOL # 224 B

1753Z SOL # 155

1808Z

Bird	Setting	Depth
1	45	22
3	27	25
5	27	25
7	25	25
9	35	25
11	42	23
12	39	
13	30	22

Gunn#	1	3	5	7	9	12	14	16	18	20
Depth	3.8	3.8	5.1	5.0	5.6	6.3	11	20	15	16

EN9207

JD180 / 28 June 92

1832Z Compass 1, 2, 3, 5 fault @ CP 182

2007Z CABLE DEPTHS:

1	3	5	7	9	11	13
24	29	28	29	29	27	30

GUN DEPTHS:

1	3	5	7	9	12	14	16	18	20
3.6m	4.2m	6.1m	4.7m	5.3m	5.5m	18ft	21ft	14ft	17ft

BIRD SETTINGS:

1	3	5	7	9	11	12	13
45	27	27	25	35	42	39	30

2050Z CABLE DEPTHS:

1	3	5	7	9	11	13
22	23	23	23	23	22	25

(4.1 STW)

2055Z EOLTH 155

2149Z BIRD #3: from 30 to 35, SOL # 242

2205Z CABLE DEPTHS:

1	3	5	7	9	11	13
22	22	22	22	22	21	24

GUN DEPTHS:

1	3	5	7	9	12	14	16	18	20
3.7ft	3.5m	5.3m	5.1m	5.2m	5.7m	18ft	21ft	15ft	14ft

2317Z CABLE DEPTHS:

#1	3	5	7	9	11	13
24	23	21	23	25	21	22

GUNS: #1	3	5	7	9	12	14	16	18	20
3.9m	3.9m	5.5m	4.6m	5.3m	5.8m	18ft	21ft	16ft	15ft

EW9207

031

JD 180

28 June 92

~~2344Z~~

2344Z GUN #1 HAS LEAKY HOSE SP #523

2349Z

PULLING GUN #1 IN TO
PATCH HOSEJD 181 / 29 JUNE '920017Z cable depths: #1 #3 #5 #7 #9 #11 #13
24 23 23 25 25 22 22

Gun#	Depth
1	1.5 m (going back in)
3	4.5
5	6.4
7	4.2
9	5.4
12	6.4
14	17 ft
16	20
18	14
20	15

bird settings line #242:

#	setting
1	45
3	27
5	27
7	25
9	35
11	42
12	39
13	35

0053Z EOL #242

0143Z SOL #194C, Gun #20 not firing according to display,
is firing according to gunners0148Z cable depths: #1 #3 #5 #7 #9 #11 #13
24 29 27 28 25 24 27

Gun#	Depth
1	3.7 m
3	3.6
5	5.0
7	5.0
9	5.2
12	5.6
14	20 ft
16	22
18	16
20	17

EW 9207 JD 181 29 JUN 92

0241Z Gun #20 back in water, still not firing

0242Z bird settings line #194C:

#	Setting
1	45
3	27 \Rightarrow 24
5	27
7	25
9	35
11	42
12	39
13	35

0251Z deactivated Gun #20, Gun #19 now firing

0252Z reactivated Gun #20, Guns #19 and #20 not firing according to display

0255Z Gun #20 firing, hooked up to Gun #19 connection, failure at lab end

0308Z cable depths: #1 #3 #5 #7 #9 #11 #13
 24 30 29 28 28 25 25

Gun#	Depth
1	3.6 m
3	3.7
5	5.8
7	5.0
9	5.8
12	5.9
14	19 ft
16	20
18	15
20	16

0329:27 SP# 462 Gun #16 starts showing "No Fire" every shot
 0330Z Gun #16 not firing still

0350Z ~ SP# 556 - Gun #16 pulled

0452Z EOL #194C Gun 16 back in

0541 SOL #243 - Arrow on monitor pointed
 wrong way - will restart

No TAPE #547

EW9207

JD 181 29 June 92

0704Z SOL # 243

0723Z

Bin 2

Setting

Depth

1	45	22
3	24	21
5	30	21
7	25	21
9	35	20
11	40	20
12	35	
13	35	23

0726Z

Gun #

Depth

1	3	5	7	9	12	14	16	18	20
3.2	4.2	5.9	4.8	5.4	6.0	19	20	15	17
m						ft			

0857Z

CABLE DEPTHS:

1	3	5	7	9	11	13
21	22	24	24	24	23	24

GUN DEPTHS:

1	3	5	7	9	12	14	16	18	20
3.2	4.5	5.0	5.0	5.8	6.0	18	21	16	17
m						ft			

1065Z

EOL # 243

1100Z

SOL # 154

1105Z

CABLE DEPTHS:

1	3	5	7	9	11	13
20	21	21	19	19	17	9
m						ft

GUN DEPTHS:

1	3	5	7	9	12	14	16	18	20
3.2	3.5	4.9	5.0	5.3	5.5	15	19	17	16

EW9207 JD 191/29 June 92

1107Z BIRD SETTINGS:

1	3	5	7	9	11	12	13
45	20	30	25	35	40	35	30

1203Z cable depths: #1 #3 #5 #7 #9 #11 #13
19 22 23 23 22 19 19

Gun# Depth

1	3.6
3	3.7
5	5.8
7	5.2
9	6.0
12	6.2
14	22
16	23
18	16
20	18

1311Z cable depths: #1 #3 #5 #7 #9 #11 #13
23 23 24 24 24 24 26

Gun# Depth

1	3.3 m
3	4.0
5	6.1
7	5.7
9	5.3
12	5.9
14	18 ft
16	20
18	16
20	16

1400Z DGPS down - bring by time n

140250 DGPS back

1403Z gun window crashed + was restarted

1406Z EOL #154

1502Z SOL #244

1503Z cable depths: #1 #3 #5 #7 #9 #11 #13
20 19 19 20 21 19 19

EW 9207 JD 181 29 JUN 92

1505 Z Gun # Depth bird settings line #244:

	Gun #	Depth	#	setting
	1	3.7m	1	45
	3	3.5	3	20 \Rightarrow 23
	5	4.9	5	30
	7	4.9	7	25 \Rightarrow 27
	9	5.0	9	35
	12	5.9	11	40
	14	18 ft	12	35 \Rightarrow 37
	16	20	13	33 \Rightarrow 35
	18	15		
	20	14		

1528 Z nav. down

1530 Z nav. DGPS back up
- was down ~ 70 secs

1659 Z Called gun shop. Gun #20 (which is showing as #19 on the monitor) is showing "N"

1701 Z Gun #20 looks okay again

1706 Z Gun #12 depth a little deep 10.8 m
Johnny to check on turn

1717 Z Gun #12 to 13 m

1720 Z Pulling #12 gun

1739 Z Gun #12 ~~works~~ again back in water but still shows "N"

1747 Z Gun #12 looks okay again

18:01 Z EOL #244

1900 Z SOL #153 Gun #20 shows "N" but is firing late

1908 Z Didn't start Mac Time stamp until now (sp#34)

~~1918 Z Pulling #20 gun out~~

EW 9207 JD 181 29 June 92

1927Z

Bir ↓ #

Settling

Depth

1	45	21
3	23	24
5	30	23
7	27	24
9	35	25
11	40	23
12	37	
13	35	27

1933Z

Gun #20 pulled out

2041Z

CABLE DEPTHS:

1	3	5	7	9	11	13
23	26	27	27	26	24	27

2050Z

GVN DEPTHS:

1	3	5	7	9	12	14	16	18	20
3.3	4.6	6.5	4.8	5.3	5.4	12	21	15	16
m						ft			

2101Z

BIRD SETTINGS:

1	3	5	7	9	11	12	13
45	23	30	27	35	40	37	35

2120Z

GVN #20 FIRING E 9L ~~MAN MAN~~
~~MAN MAN~~ OFTEN

2204Z

EOL # 153

EW9207 JD 181 / 29 June 92

2257Z SOL # 245

2322Z GUN #18 HAS AIR LEAK

PULLING GUN #18

CABLE DEPTHS:

1	3	5	7	9	11	13
22	23	23	21	22	23	26

0000Z DGPS down ~ 50 sec

0007Z Gun #18 back in + firing

0020Z cable depths: #1 #3 #5 #7 #9 #11 #13
 23 25 25 25 22 22 25

Gun#	Depth	bird settings line # 245
1	4.5 m	# setting
3	4.2	1 45
5	6.1	3 23
7	5.5	5 30
9	5.0	7 27
12	6.1	9 35
14	19 ft	11 40
16	19	12 37
18	15	13 35
20	16	

0123Z cable depths: #1 #3 #5 #7 #9 #11 #13
 21 21 24 23 23 22 25

Gun#	Depth
1	4.6 m
3	3.9
5	5.9
7	4.9
9	5.7
12	6.3
14	20 ft
16	21
18	14
20	15

0200Z DGPS down ~ 20 sec

0203Z EOL # 245

0319Z SOL # 152, Gun #16 not firing

EW 9207 182/30 JUN 92

0323Z cable depths: #1 #3 #5 #7 #9 #11 #13
 25 28 26 25 25 23 25

Gun#	Depth	bird settings line # 152:	
		#	setting
1	3.8m	1	45
3	3.7	3	24
5	6.1	5	29
7	5.6	7	25
9	5.4	9	35 ⇒ 32
12	6.6	11	40
14	18 ft	12	37
16	19	13	30
18	16		
20	17		

0324Z Gun #16 firing

0347Z Gun #16 not firing

0350Z Gun #16 firing off + on

0414Z Pulling gun #16

0455Z Put gun #16 back in

0636Z EOL #152

0726Z SOL #246

0902Z CABLE DEPTHS:

1	3	5	7	9	11	13
23	24	24	24	20	21	24

BIRD SETTINGS:

1	3	5	7	9	11	12	13
45	30	29	35	35	40	37	35

GUN DEPTHS:

1	3	5	7	9	12	14	16	18	20
3.1m	4.0m	4.7	4.2	5.7	6.6	17	20	16	18
m						ft			

EW 9207 JD 182 30 JUN 92

1123 Z SOL #151

1214 Z cable depths: #1 #3 #5 #7 #9 #11 #13
21 23 19 18 17 16 22

Gun# Depth

1	3.1m
3	3.6
5	5.0
7	5.1
9	5.9
12	6.3
14	14 ft
16	21
18	14
20	15

bird settings line #151:

#	setting
1	45
3	25
5	25
7	25
9	28
11	32
12	25
13	25

1315 Z cable depths: #1 #3 #5 #7 #9 #11 #13
21 22 21 21 21 21 25

Gun# Depth

1	3.5m
3	3.6
5	5.8
7	5.2
9	5.7
12	6.2
14	20ft
16	22
18	15
20	16

1400 Z DGPS down ~40 sec

1423 Z EOL #151, Gun#9 being pulled for repairs

1617 Z SOL #247

GUN # DEPTH

1	3.9
3	2.9
5	6.0
7	4.5
9	5.6
12	5.6

GUN # DEPTH

14	20
16	21
18	15
20	15

EW9207

JD 182 30 June 92

1648Z	Bird #	Setting	Depth
	1	45	25
	3	30	25
	5	30	23
	7	30	22
	9	33	19
	11	40	19
	12	40	
	13	35	22

1753Z Gun #12 shows N

Air leak - going to pull it out.

1811Z Aborted line # 247 will turn around + reshoot

1820Z DSS 240 Didn't go into "Nav Block" cycle - Bruce coming down to V. Park

1837Z Okay now

1934Z SOL # 247 A

2001Z CABLE DEPTHS:

1	3	5	7	9	11	13
24	25	22	23	22	22	23

GUN DEPTHS:

1	3	5	7	9	12	14	16	18	20
4.8	3.1	5.6	5.0	5.1	6.1	12	21	15	16

2012Z BIRD SEX/AGES:

1	3	5	7	9	11	12	13
45	30	30	30	33	40	40	35

EW9207 J D 182 / 30 June 92

2105Z

EOL #247A

2203Z

SOL #150

2214Z

BIRD SETTINGS:

1	3	5	7	9	11	12	13
45	27	27	27	33	40	40	32

2226Z

CABLE DEPTHS:

1	3	5	7	9	11	13
22	26	26	24	22	22	24

GUN DEPTHS:

1	3	5	7	9	12	14	16	18	20
3.4	3.0	5.3	5.4	5.5	5.6	17	23	16	17

└──────────────────┘
└──────────────────┘

m
ft

0012Z cable depths: #1 #3 #5 #7 #9 #11 #13

21 24 22 25 24 23 25

Gun# Depth

1	4.4 m
3	4.6
5	5.4
7	5.7
9	5.5
12	5.8
14	19 ft
16	22
18	16
20	17

0109Z EOL #150

0200Z DGPS Down ~ 90 Sec

0205Z SOL #248

0209Z cable depths: #1 #3 #5 #7 #9 #11 #13

23 23 22 23 22 21 19

EW 9207 183/01 JUL 92

0210 Z Gun# Depth

1	3.8m
3	4.2
5	5.1
7	4.7
9	5.0
12	6.6
14	17 ft
16	20
18	14
20	14

bird settings line #248:

setting

1	45
3	27
5	29
7	29
9	35
11	40 \Rightarrow 38 \Rightarrow 40 \Rightarrow 42
12	40 \Rightarrow 38 \Rightarrow 41 \Rightarrow 42
13	33 \Rightarrow 31 \Rightarrow 34 \Rightarrow 36

↑

Dan's playing games - ha! ha!

0306 Z cable depths: #1 #3 #5 #7 #9 #11 #13

23 23 24 25 23 22 22

Gun# Depth

1	3.2m
3	3.5
5	4.5
7	4.6
9	5.2
12	5.9
14	18 ft
16	22
18	13
20	13

0510 Z EOL# 248

0527Z DS 240 Not cycling — screen had been stopped. But we rebooted it not realizing that was the problem

050612Z DS 240 All set for SOL #149

0617Z SOL #149

0624Z

Bird # 1 3 5 7 9 11 12 13

Setting 45 20 20 20 20 40 40 32

Depth 21 22 22 20 21 21 23

EW 9207

183

01 July 92

0630Z

Missed NC

Acquisition Code = EO20

Missed 5 shots

0634Z

Missed NC

Streamer ~~crash~~ crash again

Missed 5 shots

0641Z

Streamer crash

missed 3 shots

0717Z

"

"

missed 4 shots

0917Z

"

"

missed 2 shots

0924Z

EOL #149

0931Z

STREAMER

CRASHED & RESTARTED

1020Z SOL #249

1022Z STREAMER CRASHED & RESTARTED, LOGGER

" " "

1200Z DGPS down ~ 60 sec

1203Z cable depths: #1 #3 #5 #7 #9 #11 #13

25 24 24 24 23 23 24

Gun# Depth

bird settings line #249:

1	3.3m
3	4.2
5	5.1
7	5.3
9	5.1
12	5.8
14	18 ft
16	20
18	17
20	18

setting

1	50
3	27
5	27
7	30
9	35
11	40
12	30
13	35

1320Z EOL #249

1400Z DGPS down ~ 50s

1430Z SOL #148

1432Z cable depths: #1 #3 #5 #7 #9 #11 #13

24 26 25 26 24 23 25

EW 9207 183/01 JUL 92

1434Z Gun# Depth

1	3.5 m
3	3.5
5	5.0
7	4.6
9	5.4
12	5.6
14	19 ft
16	21
18	14
20	16

bird settings line #148:

#	setting
1	50
3	27
5	27
7	30
9	35
11	40
12	30
13	35 \Rightarrow 33

1538Z Cable depths: #1 #3 #5 #7 #9 #11 #13

24 27 27 28 25 24 27

Gun# Depth

1	3.4 m
3	3.9
5	5.4
7	4.7
9	5.3
12	5.6
14	20 ft
16	22
18	15
20	17

1734Z EOL #148

1740Z Last Nav

1825Z Now Back

1839Z SOL # 242A

1857Z

Bird #	1	3	5	7	9	11	12	13
Setting	50	27	27	30	35	40	30	33
Depth	21	20	20	21	21	19		20

1900Z

Gun #	depth
1	3.5
3	3.7
5	5.7
7	4.3
9	5.2
12	5.7

Gun #	depth
14	17
16	20
18	14
20	15

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1910Z Gun #16 shows E, L + N off
 1913Z Gun #16 shows N - checking on it
 1927Z Pulling out gun #16
 1935Z Streamer crash missed 3 shots
 1948Z Streamer crash missed 3 shots

2012Z CABLE DEPTHS:
 1 3 5 7 9 11 13
 21 20 22 23 22 20 20

GUN #16 IS BACK IN THE WATER

GUN DEPTHS:
 1 3 5 7 9 12 14 16 18 20
 3.2 3.0 4.3 4.4 5.3 6.1 10 21 15 16
 m ft

2114Z SOL #242A

2215Z SOL #197B

2230Z Streamer crashed, missed 4 shots SP#69-72

2239Z SOL #197B

2325Z SOL #147

1 shot fired then streamer crashed & was restarted
 missed 3-4 shots

2335Z Streamer crashed "ACQUISITION CODE = E020"
 missed 3 shots (SP#53-55)

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2337Z Streamer crashed "ACQUISITION CODE=8020"
"BAD CAN 010"

streamer restarted

"COMPASS FAULT #1-#5" msg repeated every shot

2341Z ABANDONED LINE #147 (EDL #147)

0104Z Streamer crashed, recovery successful, acquisition code=8020

0112Z SOL #147A

0113Z cable depths: #1 #3 #5 #7 #9 #11 #13
26 29 28 29 27 23 26

Gun #	Depth	bird settings line #147A:
1	4.2 m	# Setting
3	4.1	1 50 ⇒ 30 ⇒ 40 ⇒ 45
5	5.8	3 20 ⇒ 17 ⇒ 16
7	5.7	5 22 ⇒ 19
9	5.7	7 25 ⇒ 22
12	6.4	9 32
14	21 ft	11 35 ⇒ 25
16	23	12 30 ⇒ 25 ⇒ 18
18	16	13 23 ⇒ 21 ⇒ 15
20	17	

0119Z Streamer crashed

0120Z Streamer crashed again, cable depths hard to control

0213Z cable depths: #1 #3 #5 #7 #9 #11 #13
29 34 29 27 26 25 29

going slow (~3.7K) + birds not really working

Gun #	Depth
1	4.0 m
3	4.2
5	5.7
7	5.9
9	5.5
12	6.6
14	18 ft
16	21
18	17
20	18

0233Z "MISSED NC"

0332Z cable depths: #1 #3 #5 #7 #9 #11 #13
28 33 31 30 29 25 29

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0333 Z Gun# Depth

1	3.2m
3	3.7
5	5.5
7	5.7
9	5.6
12	6.3
14	20 ft
16	24
18	18
20	19

0432 Z EOL #147A

0730 Z SOL # 1 @ SP # 4

0742 Z GUN #	DEPTH (m)	GUN #	DEPTH (feet)
1	3.0	14	18
3	3.2	16	22
5	5.0	18	17
7	5.5	20	18
9	5.7		
12	6.5		

0744 Z

BIRD #	DEPTH	SETTINGS
1	24	45
3	24	25
5	22	25
7	22	25
9	21	26
11	20	35
12		23
13	20	35

0733 Z	Streamer crashing
0736 Z	" "
0741 Z	" "
0747 Z	" "

Many sp# have AS0010 after them

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0808Z CABLE DEPTHS:

1	3	5	7	9	11	13
22	23	22	24	23	22	24

GUN DEPTHS:

1	3	5	7	9	12	14	16	18	20
4.4	3.8	5.3	5.4	6.1	6.8	19	23	17	17




BIRD SETTINGS:

1	3	5	7	9	11	12	13
45	20	20	25	26	35	32	35

0821Z STREAMER CRASHED & RESET

missed 2 shots (SP# 149 - 150)

"ACQUISITION CODE = E020"

"FILTER FAULT S6, S5, S4, S3"

0824Z "AS 0010" follows each line from SP #158 on

0907Z STREAMER CRASHED & RESET

missed 2 shots (SP #281 - 282)

"ACQUISITION CODE = E020"

"FILTER FAULT S6, S5, S4, S3"

0910Z "AS 0010" follows each line from SP #290 on

0925Z - RTCM ERROR, NAV GIVES DOWN

0927Z - Streamer crash NO NAV

"ACQUISITION CODE = 8020"

"MISSED NC"

missed 2 shots (SP# 340 - 341)

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- 0932Z Streamer crashed, missed 2 shots (SP# 356-357)
- 0938Z Streamer RESET (Bable depths weren't updating)
missed 2 shots (SP# 373-374)
- 0941Z Streamer crashed, missed 2 shots (SP# 380-381)
- 0954Z Streamer crashed, missed 2 shots (SP# 419-420)
- 0955Z "MISSED NC", missed 1 shot (SP# 422)
- 0958Z Streamer crashed, missed 1 shot (SP# 428)
- 1003Z Streamer crashed, missed 2 shots (SP# 441-442)
- 1004Z Streamer crashed, missed 2 shots (SP# 444-446)
"ACQUISITION CODE=8020"
- 1010Z ~ SP# 460 GUN #1 STOPPED FIRING - AIR LEAK
- 1035Z GUN #18 LEAKING AIR OCCASIONAL NF
WILL SOON BE PULLED FOR REPAIRS
- 1102Z GUN #1 BACK IN WATER ~ SP# 600, GUN #18
BEING PULLED FOR REPAIRS

1104Z CABLE DEPTHS:

1	3	5	7	9	11	15
23	26	25	27	27	25	25

BIRD SETTINGS:

1	3	5	7	9	11	12	131
45	15	20	25	26	35	22	35

GUN DEPTHS:

1	3	5	7	9	12	14	16	18	20
3.4	4.1	6.7	5.4	5.7	6.3	19	22	—	26

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1115Z streamer crashed "ACQUISITION CODE = E020"
 "FILTER FAULT 56, 55, 54, 53"
 "MISSED NC"
 missed 3 shots (SP#652-654)

1124Z streamer crashed "ACQUISITION CODE = E020"
 "FILTER FAULT 56-53"
 "MISSED NC"
 missed 2 shots (SP#681-682)

1124-1135Z streamer crashed lots of times (75)
 missing ~ 20-30 shots ~~SP#~~

1136Z streamer crashed, missed 2 shots (SP#718-719)

1147 GUN #18 BACK IN WATER N SP#695

1203Z mixed SP # 794-795 inc - streamer down

1205Z " " 799-802 inc - streamer down

1208Z cable depths: #1 #3 #5 #7 #9 #11 #13 |

* 1214Z see below right 32 7 28 21 24 - - |

1221Z cable depths: #1 #3 #5 #7 #9 #11 #13

25 29 27 26 25 22 23

* 1224Z see below right

1231Z lost DGPS for ~1 min

1237Z bird settings line #1:

#	setting
1	45
3	22 → 20 → 18
5	20
7	25
9	26
11	35
12	22
13	35

* 1214Z streamer failed
 -lost SP# 833-837 inc

* 1224Z streamer failed
 -lost SP# 862-864 inc

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1338z Steamer failure - missed SP# 1088 - 1090 incl.

1341z change of navigation line - lose firing pulse briefly
 and have 63 sec. gap between SP#1094 (file #1027)
 and SP# 1095 (file # 1028) (equivalent to ~ 2 shots)

1400z DGPS down ~ 60 sec

1405z cable depths: #1 #3 #5 #7 #9 #11 #13
 25 28 25 27 26 23 25

Gun#	Depth
1	3.8 m
3	4.2
5	5.2
7	5.4
9	5.7
12	6.6
14	19 ft
16	22
18	17
20	17

1515z cable depths: #1 #3 #5 #7 #9 #11 #13
 26 30 27 28 28 24 24

Gun#	Depth
1	3.6 m
3	3.9
5	6.1
7	5.8
9	5.9
12	6.5
14	19 ft
16	21
18	17
20	18

1828 differential GPS link going up + down

20:18:11 ~ 3 shots missed (no new ~~shots~~ closures)
 "EOL"

21:11:14 Steamer crash, 3 missed & shots

21:56z EOL #1 SP # 2759

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~2330Z Differential corrections
stopped From Barbadoes

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~0140 tail buoy secured
on deck.