SURVEYOR'S LOG

DOF SUBSEA A/C

WEDNESDAY 27TH FEB 2008

0700 BEGIN MOBILISATION OF SURVEY EQUIPMENT

0830 BEGIN QINSy PROJECT SETUP

INTERFACED: GPS (VERIPOS PRI. AND SEC.)

SEAPATH HEADING AND MOTION

ANSHULTZ GYRO

DMS 335 MOTION SENSOR

EM 300 MBES

THURSDAY 28TH FEB 2008

0700	CONTINUE MOBILISATION GPS CHECKS AND GYRO CALIBRATION COMPLETED CABLE COUNTER INTERFACED

6

FRIDAY 29TH FEB 2008

0700	CONTINUE MOBILISATION
1040	SOL CABLE TENSION (TO RECORD CABLE TENSION DURING TESTING)
1047	EOL CABLE TESTING
1600	DEPART GERALDTON
1745	AT ANCHOR FOR MECHANICAL REPAIRS

SATURDAY 01MAR 08

0001	Vessel Midnite Position LAT 28° 42' 23·7" S LON 114° 35' 31·5" E
	Vessel remains at anchor outside Geraldton port for engine repairs.
1510	ALONGSIDE WHARF GERALDTON for repairs to engine room.

SUNDAY 02 MAR 08

0001	Vessel Midnite Position LAT 28°46'33·7"S LON 114°36'00"E Vessel alongside wharf at Geraldton for repairs to engine room.

0918 EM300 crash.
1330 EM300 on line after cleaning of workstation & reseating of RAM

MONDAY 03 MAR 08

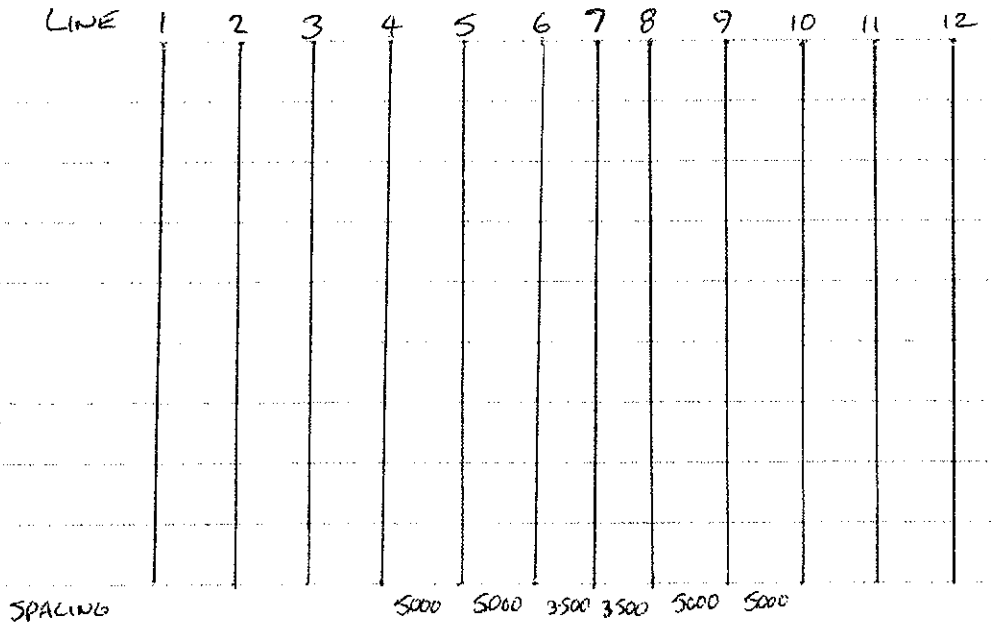
	Vessel Midnight Position LAT 28° 46' 33" S LON 114° 36' 00" E.
	Vessel alongside wharf @ Geraldton for repairs to engine room.
0810	Vessel departs Geraldton wharf
0850	Muster drill
1400	Tool box talk for sonar deployment.
1647	TOWFISH AND DEPRESSOR DEPLOYED
1709	SOL TESTLINE HDG 156° KP -0.1 0006-TESTLINE-0001.db FIX 1
1730	EOL TESTLINE FIX 18
1755	SOL TESTLINE HDG 336° KP -0.2 0007-TESTLINE-0001.db FIX 19
1809	EOL TESTLINE FIX 33
1837	PREPARING TO RECOVER TOWFISH
1906	DEPRESSOR ON BOARD
1917	TOWFISH ON DECK
1946	PREPARING TO DEPLOY 30 KHz TOWFISH
	TOWFISH DEPLOYED
2107	SOL TESTLINE 2 FIX 34 HDG 336° KP -0.1 0008-TESTLINE 2-0001.db
2151	EOL TESTLINE 2 FIX 76
2232	SOL TESTLINE 3 FIX 77 HDG 156° KP -0.1 0009-TESTLINE 3-0001.db
2308	EOL TESTLINE 3 FIX 112
2311	PREPARE TO RECOVER TOWFISH

TUESDAY 04 MARCH 08

0001	Midnite Position 28°50' 18" S 113°37' 55" E.
	Vessel in transit to Wallaby Island to obtain calmer water for towfish recovery.
0209	altered PC time from GMT to LOCAL.
0330	Sonar tow fish recovery in progress.
0400	Vessel in-transit to Northern search area.
1300	LINE DATABASE COMPILED IN SEARCH AREA POLYGON
	POINT 1 S 25°54' E 110° 40.5' (SEARCH AREA EXTENTS)
	POINT 2 S 25°54' E 111° 17.5'
	POINT 3 S 26° 46' E 111° 17.5'
	POINT 4 S 26° 46' E 110° 40.5'
1606	MBES SYSTEM CRASHED
1612	MBES SYSTEM BACK UP AND RUNNING
1616	MBES SYSTEM CRASHED
1624	MBES SYSTEM RESTARTED
1 ?	SYSTEM TIME CHANGED BACK TO GMT DUE TO
	QINSY OUTPUT NOT OUTPUTTING LOCAL TIME TO ISIS
1824	MBES SYSTEM CRASHED
2300	STILL UNABLE TO OPERATE EM300 MBES
2322	PREPARING TO DEPLOY SSS
2343	TOWFISH DEPLOYED
2348	DEPRESSOR DEPLOYED

Wednesday 05 MAR08

..001	Vessel Midnite Position lat 26°53.86'S LON 111°01.21'E.
0139	SOL 07. Line07-0001.db. lable out = 3630m, SSS depth = 1410m, Fix 106. SSS height = 2822 m.
0239	fish @ SOL Cable out = 5310m, SSS depth = 2120m. Fix 166.
0321	Vessel @ start of search grid Cable out = 5600m Fix = 207.
0343	Target on port side - waypoint : Target 001. Numerous along track small targets & scars.
0506	fish @ start of search grid Cable out = 6632m Fix = 312. S. Depth = 3262
0655	problems with sonar data Fix 424.
0710	sonar problems resolved Fix 436.
0711	sonar ground fault observed, to be resolved at end of line.
1021	sonar data lost at Fix 627.
1024	sonar data returns at Fix 630.
..13	SONAR WIZ CRASHED FIX 1339 ISIS PAUSED MOMENTARILY
2216	SONAR WIZ BACK ON LINE.


LINE
1
2
3
4
5
6
7
8
9
10
11
12
SPACING
5000
5000
3500
3500
5000
5000

Thursday 06 MAR 08

0[illegible]	Vessel Midnite Position LAT: 29° 57·32'S LON: 111° 00·49'E
0219	FIX 1584 fish crosses northern boundary of search grid.
0221.	FIX 1587 stop recording of SSS & multibeam data.
0225.	commence recovery of tow fish & tuning / testing of SSS system.
0550	depressor on deck, recovering fish.
0600	tow fish on board for repairs.
1120	side scan repaired & vessel proceeding to end of line, SSS to be assembled.
1251	SURVEY LINE DATABASE CHANGED TO ALTER LINE SPACING
1617	PREPARING TO LAUNCH SSS
1631	SSS DEPLOYED
1634	DEPRESSOR DEPLOYED
1900	RECOVERING CABLE DUE TO POSSIBLE CYCLONE PATH.
1915	PAYING OUT CABLE TO 6000m
2045	SOL LINE 06 FIX 1588 HDG 180° FILE: 0002.LINE06.0001.db
2 0	POWER FAILURE TO SHIPS POWER.
2142	EOL LINE 06 FIX 1644
2156	BEGAN TO RECOVER SSS DUE TO TECHNICAL PROBLEMS.

depth = 667 m

Friday 07 MAR 08

00[illegible]	Vessel Midnite Position : Lat 26° 07·3'S LON 110° 56·2'E
	Side Scan Tow Fish recovery in progress, cyclone approaching
0130	Side Scan Tow Fish recovery complete, vessel in-transit to Shark Bay.
0600	EM300 online after installation of UPS.
0735	EM300 work station crash.
0742	EM300 online after reboot.
1025	Vessel heding North - continuing to avoid cyclone.
1055	C-NAV 2050 crash - all LEDs ON.
1102	C-NAV & C-NAVIGATOR rebooted OK.
1520	VESSEL ALTERED COURSE DUE WEST TO RETURN TO SEARCH AREA
2338	ARRIVED ON LOCATION BUT WEATHER TO ROUGH TO DEPLOY SSS

Heading N→S approx 8½ km to get tow fish to depth.

Saturday 08 MAR 08

0001	Vessel Midnite Position: LAT 25°44.3'S LON 110°57.4'E.
—	Vessel standby for rough seas.
0330	begin on deck SSS TOW FISH checks.
0415	deploy tow fish/depressor, vessel proceeding toward SOL 46.
0809	Vessel SOL, commence recording 0003-Line06-0001.db Fix 1645.
—	Cable out = 6305 m, Distance SSS-Tow = 5815 m, SSS Depth = 2450 m.
0935	Vessel enters survey grid Fix # 1729
—	Cable out = 6364 m, Distance SSS-Tow = 5906 m, SSS Depth = 2362.
1048	Tow Fish enters survey grid Fix # 1802
	Cable out = 6553 m, Distance SSS-Tow = 6090 m, SSS depth = 2417.
2130	USAT INTERNET FOUND TO BE NOT WORKING

Sunday 09 MAR 08

~0001	Vessel midnite position : LAT 26° 29·9'S LON 110° 58·4'E.
~	Vessel continues to survey line # 06.
0326	SSS ground fault observed.
0604	Vessel departs survey grid FIX # 2959
0743	Tow fish departs survey grid FIX # 3058
	Cable Out = 8279, SSS depth = 3292m, Dist Tow Fish - Tow Point = 7613m.
0755	commence recovering cable prior to turn - also fault finding of sonar system.
1216	DEPRESSOR ON DECK
1229	TOWFISH ON DECK
2200	REPAIRS COMPLETED TO TOWFISH / PREPARE TO DEPLOY SSS
2229	SSS DEPLOYED
2231	DEPRESSOR DEPLOYED

MONDAY 10 MAR 08

001	Vessel midnite position: LAT 26° 51.4'S LON 111° 02.6'E
/	Vessel approaching Line #08 & paying out tow fish.
0157	Vessel & tow fish on line, commence recording FIX # 3079 0004-Line08-0001.dtb
/	Cable out = 5030, SSS depth = 2145, Tow point - Fish = 4552
0238	Vessel enters survey grid FIX # 3099
/	Cable out = 6565, SSS depth = 2718, Tow point - Fish = 5970.
0330	MultiBeam turned off at Williamson request (testing for interference).
0332	MultiBeam turned on (Williamson satisfied)
0421	Tow Fish enters survey grid FIX # 3202
/	Cable out = 8364, SSS depth = 3171, Tow point - Fish = 7738
0649	Tow Fish recovery underway FIX 3351, due to poor starboard channel.
/	Cable out = 7777, SSS depth = 3027, Tow point - Fish = 7135.
0704	QINCY data recording stopped, vessel unable to maintain line corridor at reduced speed
/	for tow fish recovery. FIX 3364.
1[illegible]	Vessel turns toward 180°, Cable out = 200m.
1119	Depressor on deck.
1131	Tow Fish on deck.
1132	Vessel proceeding toward SOL # 08, SSS under repair.

* target seen on starboard side before start logging ≅ 5 mins @ 3 kts.

Tuesday 11 MAR 08.

0001	Vessel midrite position: LAT 26°59.8'S LON 111°04.2'E.
/	Vessel standby at southern end of line for SBB repairs.
0439.	SBB Tow Fish launched.
0444	SBB depressor launched, & cable counter zeroed.
0445	Vessel heading toward start of line #08.
0527	altered Computation Setup / CMG filtering to position from Kalman.
0844	commence recording line #08 (0005-Line08-0001.db). Fix 3365.
/	Cable Out 6899, Depth Tow fish = 2170, Distance Tow Point - Fish = 6540.
0920	Vessel enters survey grid Fix # 3400
0922	Tow fish @ SOL #8 Fix # 3401
/	Cable Out 7592, Depth Tow fish = 2713, Distance Tow Point - Fish = 7105.
1100	Tow fish enters survey grid Fix # 3500
/	Cable out 8048, Depth Tow fish = 3274, Distance Tow Point - Fish = 7340.
1300	FIRE DRILL
"	FIRE DRILL COMPLETED

Line #9 edited

E 509 343.90 (5000 m spacing)
1600.00 (5000 - 1600 = 3400 m spacing)
E 507743.90

edited

E 509 329.70 (5000 m spacing)
1600.00 (5000 - 1600 = 3400 m spacing)
E 507729.70

Wednesday 12 MAR 08

00	Vessel midnite position: LAT 26° 07.4'S LON 111° 02.6'E
/	Vessel continues to survey line # 08.
0423	Vessel departs survey grid. FIX #. 4543
0423	Cable out: 6989 Fish Depth 2107. Tow point-fish = 6663.
0532	Tow fish departs survey grid FIX # 4612, commence cable recovery.
/	Cable out: 6992 Fish Depth 2140 Tow point-fish = 6694.
0739	informed next line to be 3400 m to east of Line #08.
0741	stop recording FIX # 4741, to edit line database.
0750	turn circle on screen & vessel turning to new Line # 09, SonarWhiz software
/	reinstallation in progress.
0906	turn completed, commence run-in Line # 09, paying out cable.
0907	commence recording FIX # 4742. LINE = 0006-Line09-0001.db.
/	Cable out: 2565m Fish Depth = 1299 Tow point-fish = 2205m.
1305	VESSEL ENTERING SURVEY POLYGON.
1[illegible]	TOWFISH ENTERING SURVEY POLYGON
1740	LARGE TARGET IDENTIFIED ON STBD CHANNEL ≈ 2560m deep

Thursday 13 MAR08

0001	Vessel midnite position : LAT 26° 27.9'S LON 111° 04.6'E
–	Vessel continues to survey line #09.
0728	Vessel departs survey grid Fix # 6082.
/	Cable out = 8401m, Fish Depth = 3186, Layback Tow Point - Fish = 7787
0911	Tow fish departs survey grid Fix # 6185
/	Cable out = 9118m, Fish Depth = 3295, Layback Tow Point - Fish = 8503.
/	Vessel continuing on extending line runout to check a target seen yesterday.
0945	Hot contact starboard side Fix # 6280. Cable out 9374 m.
1203	EOL LINE 09 FIX 6356
1205	HEAVING IN ON CABLE
1419	COMMENCE TURN TO PORT
1448	DATABASE BACKED UP TO W&A HARD DISC (BRIAN BUNGEY)
1521	MBES LOST COMMUNICATIONS WITH TOPSIDE. UNIT TURNED OFF TO COOL DOWN
1545	BEGIN PAYING OUT CABLE
1717	TURN COMPLETED VESSEL ON LINE / CONTINUE PAYING OUT CABLE
1801	MBES RESTARTED
1845	SOL LINE 09_Ext HDG 000° FIX 6357 0007_LINE09_Ext.0001.db
2335	EOL LINE 09-Ext FIX 6646
2340	SOL LINE 10 HDG 000° FIX 6647 0008-LINE10.0001.db

Friday 14 MAR 08.

0001	Vessel midnite position : LAT 26°44.3'S LON 111°04.3'E.
/	Vessel moving to starboard 4675 m to run line # 10, CMG = 030°.
0230	Vessel tracking Line #10 after very long shallow approach FIX # 6815
/	Cable Out 8524 Fish Depth = 3105. Layback Tow-Fish = 7940.
0627	Vessel enters survey grid 'B' FIX # 7053
/	Cable out = 7530 Fish Depth = 2704 Layback Tow-Fish = 7025.
0750	Tow Fish enters survey grid 'B' FIX # 7137
/	Cable out = 7789. Fish Depth = 2680 Layback Tow-Fish = 7096.
1055	Deviation to line 10 in order to identify KORMORAN FIX # 7321.
/	Cable out = 7309. Fish Depth = 2330 Layback Tow-Fish = 6928.
1106	Complete recording for line #10 FIX 7333 (TARGET = TURN)
1109	Commence recording for Kormoran Rece 0009-KormoranRece-0001.dd
/	Cable out = 7250 Fish Depth = 2310 Layback Tow-Fish = 6867.
1520	HEAVING IN CABLE
:3	EOL KORMORAN-RECE FIX 7587
1709	BEGIN TURNING CABLE @ 3000m OUT
1808	COMPLETED TURNING VESSEL ON LINE
1824	PAYING OUT CABLE
1932	SOL KORMORAN RECE-1 FIX 7588 HDG 172° 0010-KORMORAN RECE-1.0001.d
2244	EOL KORMORAN RECE-1 FIX 7778
2244	SOL BATTLESITE RECE FIX 7779 HDG 180° 0011-~~KORMORAN~~ BATTLESITE RECE .0001.db
2309	EOL BATTLE SITE RECE FIX 7803
2313	SOL BATTLE SITE RECE HDG 180° 0013-BATTLESITE RECE.0001.db

Fix #8448 N = 7112610.

Line #10	E 511933.50	+ 4500	=	E 516433.50
	N 7112858		=	N 7112610 + 7 km run out.
	E 511939.50	+ 4500	=	E 516439.50.
	N 7040000		=	N 7066514.54.

LINE #11	E 516433.50	/ N 7182610
	E 516439.50	/ N 7066514.

Saturday 15 MAR 08

1	Vessel midnite position : LAT 26° 11'S LON 111° 04'E.
/	Vessel heading south & collecting sonar data of Kormoran wreck site.
0217.	Tow fish adjacent to turn off point on line #10, begin cable recovery for turn Fix 7984
0230.	projected 0700 position for rendevous 111° 07'E 26° 10' S.
0330.	Commence turn to port for line #10, cease logging FIX # 8057
/	Cable out - 3799, Tow Depth - 1177, Layback Tow-Fish - 3045
0500.	Vessel on line #10, commence pay-out tow cable, commence logging Fix# 8058
/	Cable out = 3862, Tow Depth = 1666, Layback Tow-Fish = 2888.
0505	Cable out & tow fish on-line @ depth FIX = 8123. (tow fish to turn > 10 km)
0845	Fish in virgin teritory Fix # 8282
/	Cable out = 5829, Tow Depth = 2372 Layback Tow-Fish = 4413.
0943	Cray fish vessel alongside, abort to rough to maintain station.
1029	Tow Fish departs survey grid 'B'. Fix # 8386.
/	Cable out = 5982, Tow Depth = 2462, Layback Tow-Fish = 4515
30	instructed to continue surveying for next 30 minutes.
1100	Commence recovery of tow fish for turn Fix# ~~888~~ 8418.
1107	next line to be 4500 m to east, & top end of line to be @ Fix 8418.
1111	Vessel deviating to starboard of line to provide lee for cray boat.
	Transfer of materials to & from cray boat complete; Geoscanner Xtrack =
1229	EOL LINE 10 FIX 8506
1236	BEGIN TURN / CEASE HEAVING IN CABLE
1331	TURN COMPLETED
1350	PAYING OUT CABLE
1356	SOL LINE 11 FIX 8507 HDG 180° 0015-LINE11-0001.db
1532	CEASED PAYING OUT CABLE
2328	VESSEL DEPARTS SURVEY GRID

Line #12 = Line #11 + 4500 in easting.

					Line #12
LINE #11	E	516439.5	+ 4500	=	520939.5
	N	7066514.5			
	E	516433.5	+ 4900	=	520933.5
	N	7112705.0			

Sunday 16 MAR08

0000	Vessel midnite position : LAT 26°28' LON 111°09'
/	Vessel continuing down Line #11.
0053	Tow fish departs survey grid 'B' fix # 9143
/	Cable out = 6907, Fish Depth = 2497, Layback Tow-Fish = 5387.
/	commence cable recovery in preparation for turn
0175	cease recording for line # 11, Fix # 9224
/	line #12 loaded to database
0207	commence turn to new line #12.
0325	complete turn to new line #12, commence payout cable.
0342	commence recording LINE #12, Fix #9225. 0016-Line12-0001.db.
0559	vessel enters survey grid Fix 9362
/	Cable out = 7166, Fish Depth = 2459, Layback Tow-Fish = 5656.
0703	Tow fish enters survey grid Fix # 9429
/	Cable out = 7367, Fish Depth = 2437, Layback Tow-Fish = 5846.
3	Hard target to starboard, W.D. = 2468 m, Fix # 9667.
/	Cable Out 6747, Fish Depth = 2179, Layback Tow-Fish = 5378.
1130	requested to make new line at Line 12 + 1700 EAST, (Sydney Reef 1)
1156	CABLE BEING HEAVED IN
1253	EOL LINE 12 FIX 9775
1317	BEGIN TURN TO STBD
1425	TURN COMPLETED
1437	PAYING OUT CABLE
1438	SOL SYDNEY REEF 1 FIX 9776 HDG 180° 0017-SYDNEYREEF1-0001.db
1558	VESSEL ENTERING SEARCH POLYGON
1625	FINISHED PAYING OUT CABLE
1924	EOL SYDNEY REEF 1 FIX 10061
2051	TURN COMPLETED
2116	SOL SYDNEY 1.5K HDG 319° FIX 10062 0018-SYDNEY 1.5K-0001.db
2310	HEAVING IN CABLE
2314	EOL SYDNEY 1.5K FIX 10179

SUNDAY 16 MARCH

MONDAY 17 MAR 08.

1	Vessel midnite position: LAT 26°10' LON 111°10'
/	Vessel turning to new line: Sydney 0.75K.
0031	Vessel commence turn to port, Cable out = 3206.
0145	Vessel complete turn, commence cable payout, 12 km to line start.
0307	Commence recording for line Sydney 0.75K. Fix 10180
/	Cable out = 5410, Fish Depth = 2018, Layback Tow-Fish = 4204.
0341	small hard target on port side of run-in line, note run-in line if
/	extended passes through KORMORAN site. Fix ≃ 10213
/	E519107, N7099598.8 = ship position; E515921, N7103271 = fish position
0416	Vessel start of line
/	Cable out = 6776, Fish Depth = 2421, Layback Tow-Fish = 5296.
0521	SOL for tow fish Fix # 10313
	Cable out = 7216, Fish Depth = 2357, Layback tow-fish = 5727.
0526	Sydney on Starboard side, approx 65m off-track.
35	commence cable in for fish recovery.
0558	cease recording. EOL Fix # 10350.
0826	Sonar fish @ 500m cable out waiting for recovery.
0901	depressor on deck.
0911	tow fish (30KHz) on deck.
0920	Vessel proceeding towards KORMORAN.
1027	altered scale factor for cable counter to 1.0 because of change at cable counter
1100	Geotiff of Kormoran sidescan record added to Navigation display.
1115	created line Kormoran500 offset 125 m west of Kormoran.
1136.	Beasander arrives @ site of Kormoran
1200	ceremony for Kormoran, speeches, etc.
1453	PREPARE TO DEPLOY 60KHz TOWFISH
1512	TOOLBOX TALK COMPLETED / BEGIN LAUNCH
1515	TOWFISH IN WATER
1517	DEPRESSOR IN WATER
1521	BEGIN TURN

MONDAY 17TH MARCH 2008

1534 ALTERING COURSE TO RECOVER TOWFISH

1600 DEPRESSOR ONBOARD

1610 TOWFISH ON DECK

1844 PREPARE TO DEPLOY TOWFISH

1904 TOWFISH IN WATER

1905 DEPRESSOR IN WATER

2150 MASTER INFORMED NAV THAT ENVIRONMENTAL CONDITIONS AND ENGINE CONSTRAINTS ARE MAKING IT DIFFICULT TO MAINTAIN TRACK. RB INFORMED BY NM.

2149 SOL AMS60-KORMORAN500m FIX 10351 HDG 026°
0020-AMS60-KORMORAN500m.db

Tuesday 18 MAR 08

01	Vessel midnite position : LAT 26° 04' LON 111° 05'
/	Vessel completing 60 KHz scan of KORMORAN on 026°
0011	Fix # 10374 KORMORAN on starboard side.
/	towfish telemetry faulty - depth value erratic, causing erratic layback.
0033	commence cable recovery, fish altitude = 35m.
0110	commence turn to starboard.
0133	cease logging Fix 10453.
0647	Vessel on run-in line for Sydney DSOL 14,000.
/	Cable out = 2349. paying out.
0750	intermittent ground faults on 60 KHz SSS.
1000	commence recording SOL AMS 60 - Sydney 500m Fix # 10454.
/	Cable out = 3770, Fish depth = 2415, Layback Tow-Fish = 2895.
1115	Vessel SOL AMS 60 - Sydney 500m, Fix # 10528
/	Cable out = 3989, Fish depth = 2385, Layback Tow-Fish = 3195.
1130	Vessel EOL AMS 60 - Sydney 500m, Fix # 10543
/	Cable out = 4208, Fish depth = 2404, Layback Tow-Fish = 3466.
1230	EOL AMS 60 - SYDNEY 500M FIX 10602
1231	HEAVING IN CABLE
1348	BEGIN TURN
1424	TURN COMPLETED
1521	PREPARE TO RECOVER TOWFISH
1535	DEPRESSOR ON DECK
1543	TOWFISH ON DECK
1547	TRANSIT TO HMAS SYDNEY II SITE
1600	MEMORIAL SERVICE
1624	TRANSIT TO GERALDTON

Wednesday 19 MAR 08.

0000 Vessel midnite position LAT 26° 45' LON 111° 51'

Vessel en-route to Geraldton,

THURSDAY 20TH MARCH 2008

0800	CONTINUE PASSAGE TO GERALDTON
1240	BERTHING GERALDTON, & commence demob of Williamson aerial equipment.

FRIDAY 21 MAR 08.

" 11. Vessel midnite position : LAT 28° 46' LON 114° 36'
Vessel alongside wharf @ Geraldton.

SATURDAY 22 MARCH

0001	ALONGSIDE GERALDTON WHARF 28°46'19.7"S 114°36'04.8"E
0730	CONTINUE ROV MOBILISATION
0800	TEST HIPAP INTERFACE WITH QINSY
1000	IN STORES (FOOD)
1300	S. BAGNELL DEPARTS

SUNDAY 23 MARCH 2008

0001	ALONGSIDE GERALDTON WHARF 28° 46' 23" S 114° 36' 01" E
0700	CONTINUE ROV MOBILISATION
2010	ROV OFF DECK
2105	ROV ON DECK

MONDAY 24TH MARCH 2008

0700	CONTINUE ROV MOBILISATION

TUESDAY 25 MARCH 2008

0100	CONTINUE ROV MOBILISATION
	WEDNESDAY 26 MARCH 2008
0700	CONTINUE ROV MOB
	THURSDAY 27 MARCH 2008
0700	CONTINUE ROV MOB
	FRIDAY 28 MARCH 2008
0700	CONTINUE ROV MOB

SATURDAY 29 MARCH 2008

0700	CONTINUE ROV MOBILISATION
1510	DEPART GERALDTON WHARF

SUNDAY 30 MARCH 2008

0001	VESSEL POSITION 28°50'07.5"S 113°38'~~38~~.4"E
0013	HIPAP TRANSCEIVER DEPLOYED
0033	Do not launched due to weather conditions
0048	HIPAP TRANSCEIVER RAISED
0300	CLOCKS RETARDED 1HR TO GMT +8.0 HRS
0000	28° 13' 25" S 113° 01' 56" E

66

TUESDAY 0 APRIL
~~Monday~~ 31 ~~March~~ 2008

0001 Vessel Position 26° 36' 23,9" S 111° 32' 27,6 E
0200 ARRIVE IN VICINITY OF HMAS SYDNEY II LOCATION
0221 Deploy Hilap tranceiver pole.
0305 ROV off deck
0357 ROV on deck (0440Z)

Checked the following:
ROV Digiquartz, ROV Compass, Mini SVP
TMS Digiquartz.
Video overlay.

The following equipment is not working:
ROV Bathy,
Beacons 32, 34 and 76 only worked in Transponder mode
0900 ROV BATHY NOW SERVICABLE (PORT CHANGED TO SOLVE PROBLEM)

Wednesday 02 ~~March~~ APRIL 2008

0001 Vessel Position 26° 14' 33,2" S 111° 13' 02,3" E

0307 HiPap tranceiver raised

Thursday 03 ~~March~~ APRIL 2008

0001	26° 12' 00,0" S 111° 12' 48,7" E
0909	HIPAP POLE DEPLOYED
1134	ROV IN WATER - Dive 5
	Checked the following:
	ROV Digiquartz, TMS Digiquartz, ROV Compass,
	Mini SVP, Video overlay, Beacons B34 & B76
	ROV Bathy intermittend.
1157	Logging SOL Dive 4
	0022. Dive 4. 0001. db. storage file
1325	MINI SVP NOT OUTPUTTING SV DATA ONLY ZERO VALUES.
1355	EOL DIVE 4 LOGGING STOPPED
1400	VESSEL MOVING TO POSITION 50m ABEAM OF SYDNEY
	TO DEPLOY ROV TO DEPTH
43	SOL DIVE 4 FILE 0023
1510	HMAS SYDNEY SIGHTED
1528	FIX 10607 TURRET LOCATION DEPTH ≈ 2470m
1550	FIX 10608 STERN LOCATION DEPTH ≈ 2480
	E 521458 N 7097088
1623	FIX 10609 AFT FUNNEL SECTION
1626	FIX 10610 CATAPULT STAND
1630	FIX 10611 LIFERAFT STAND
1638	FIX 10612 CRANE
1643	FIX 10613 ANCHOR
1658	FIX 10614 BRIDGE
1702	FIX 10615 "B" TURRET
1709	FIX 10616 "A" TURRET
1718	FIX 10617 BOW POSITION
129	HEAVING IN TO BRING GARAGE TO SAFE DISTANCE ABOVE
	HMAS SYDNEY II

THURSDAY 03 ~~MAR~~ APRIL 2008

15	VERIPOS PRIMARY GPS UNIT UNSERVICEABLE SWITCHED TO SECONDARY VERIPOS GPS AND PPS TIMING CHANGED OVER. GPS OFFSET ENTERED INTO HIPAP SYSTEM.
1932	RECOVERING ROV TO DECK
1937	EOL DIVE 4
2100	ROV ON DECK

Friday 04 April 2008

0001	26° 14' 42.2" S 111° 12' 54.2" E
0651	ROV off deck
0701	SOL Dive 5 0024-Dive 5.0001.db Storage file
	Tritech Bath intermittend.
0822	ROV at depth 2440 meters
0834	ROV on seabed 2491.1 meters - Corrected 2480 m
0840.	Stopped SOL
0842	Add offset to ROV Digiquartz -11.7 meters
0843	SOL Storage file 0025-Dive 5.0001.db
0856	HMAS Sydney sighted
0858	Fix 10618 Starboard fwd bow
1014	Load SVP data into HiPaP.
1028	Fix 10619 A turret
1032	Fix 10620 On top of A turret
1057	Fix 10621 Pressure hand valve
1205	FIX 10622 "A TURRET"
1251	FIX 10623 WHEELHOUSE
1255	FIX RANGE FINDER 10624
1258	FIX 10625 DIRECTOR CONTROL TOWER
1311	FIX 10626 PEDESTAL 0.5" QUAD GUN
1326	FIX 10627 BLACKSMITHS WORKSHOP
1330	FIX 10628 FOREMAST STUMP
1335	FIX 10629 FWD FUNNEL
1339	SHIP LOST POSITIONING ROV RETURNING TO TMS
1345	SHIP POSITIONING UNDER CONTROL ROV BACK IN POSITION
1356	FIX 10630 BAKERY
1407	FIX 10631 CATAPULT BARBETTE
1411	FIX 10632 4" ANGLE GUN
1435	FIX 10633 OFFICERS GALLEY

6

FRIDAY 04 APRIL 2008

1437	FIX 10634 "X" TURRET
1445	FIX 10635 "Y" TURRET
1450	FIX 10636 CAPSTAN ON ¼ DECK
1459	FIX 10637 STERN
1545	MOVING ROV TO STERN OF SYDNEY TO INVESTIGATE DEBRIS ON PORT SIDE AFT.
1637	MOVING VESSEL TO STBD SIDE OF SYDNEY TO COMMENCE VISION OF STBD SIDE SYDNEY
1705	COMMENCING SURVEY STBD SIDE
1717	FIX 10638 FUNNEL ON TURRET (POSSIBLY)
1738	FIX 10639 PERISCOPE ON TURRET
1740	ROV RETURNING TO TMS TO TAKE BREAK
2032	RECOVERING ROV
'30	EOL DIVE 5

Saturday 05 April 2008

.01	26° 14' 30,5" S 111° 12' 47,2" E
0944	Checked overlay + change overlay text
0947	ROV off deck
0955	SOL Sydney Debris
	Storage file 0026 - Sydney Debris - 0001.db
1010	Stopped logging
1011	SOL Storage file 0027 - Dive 6 - 0001.db
1054	ROV at depth 2220 meters
1119	ROV on seabed 2488
1123	Fix 10640 Mast fwd
1204	ROV LOCATED BOW SECTION
1219	FIX 10641 BOW
1241	FIX 10642 PORT AFT SECTION OF BOW PIECE
1248	FIX 10643 "S10" TARGET AFT 0.5" QUAD MOUNT?
1431	FIX 10644 DIRECTOR CONTROL TOWER "S10"
~~1440~~	~~CORRECTION TO FIX 10643 SHOULD BE "S11" TARGET~~
1509	FIX 10645 CATAPULT (SECTION)
1527	FIX 10646 FUNNEL
1603	FIX 10647 CATAPULT
1625	FIX 10648 BOAT
1748	ROV RETURNING TO GARAGE
1835	ROV LEFT GARAGE
1917	FIX 10649 GUN DIRECTOR (HIGH ANGLE)
1926	FIX 10650 BOAT

80

Battle site ~~2~~ 8.6

NW
26°09'37.6" S
111°03'54.9 E

NE 26° 09' 37.6 S
111° 05' 18.3 E

SE 26° 10' 47.1 S
111° 05' 18.3 E

SW 26° 10' 47.1 S
111° 03' 50.9 E

SUNDAY 06 APRIL 2008

0001	VESSEL POSITION 26° 14' 39"S 111° 12' 54"
0021	FIX 10651 TORPEDO TUBES
0108	FIX 10652 BUNDLE OF WIRE "S5"
0155	FIX 10653 BOAT CRADLE
0210	FIX 10654 BOAT "S1"
0357	ROV TEAM TAKING TIMEOUT AT BOW OF VESSEL
0420	EXAMINING SCOUR MARK ON PORT SIDE SYDNEY.
0434	Recovering ROV
0440	EOL Dive 6. ROV in TMS.
0605	ROV on deck
0609	HiPaP tranceiver raised
0610	Start transit to Battle site
740	Arrive at Battle site, NW corner.
	Vessel position 26° 09' 37,6" S 111° 03' 54,9 E
0744	Deploy HiPaP transceiver & Recover again
0840	Start transit to launch site within Battle site
0853	Vessel position 26° 10' 03,4 S 111° 04' 20,2 E
0855	Deploy HiPaP transceiver
0910	ROV off deck
0913	SOL Storage file 0029-Dive 6-001.db
1046	ROV at depth 2739 m
1053	ROV at seabed 2786 m
1045	TRANSIT 50m SOUTH 180°
1152	ON LOCATION SCANNING SOUTH AND WEST
1157	TRANSIT 50m SOUTH WEST 225°
1204	ON LOCATION SCANNING WEST AND SOUTH
09	TRANSIT 50m SOUTH 180°
1216	ON LOCATION TARGET 60m @ 180°

SUNDAY 06 APRIL 2008

1219	TRANSIT 51m @ 190° TO FIRST TARGET LOCATION
1226	TARGET GEOLOGY FIX 10655
1236	TRANSIT TARGET 38m @ 149°
1241	TARGET ROCK
1255	TRANSIT 100m @ 180°
1309	TARGET ROCK
1310	TRANSIT 31m @ 180°
1318	TARGET ROCK
1321	TRANSIT 100m @ 180°
1334	@ LOCATION / BEGIN TRANSIT TO LARGE TARGETS 500m @ 180°
1358	TARGET ROCK
1404	TRANSIT 250m @ 180°
1420	@ LOCATION B1 AND B2 (ROCKS)
21	FIX B1 (ROCK) 10656
1430	RECOVER ROV BEGINS
1502	EOL DIVE 6
1610	ROV ON DECK
1625	HIPAP POLE UP / BEGIN TRANSIT TO KORMORAN SITE
1715	ARRIVE OVER KORMORAN SITE / HIPAP POLE DOWN
1750	PREPARE TO DEPLOY ROV
1825	ROV OFF DECK
2003	ROV STUCK IN GARAGE
2008	SOL DIVE 7 0032-DIVE7-0001.db
2010	COMMENCING INVESTIGATION OF KORMORAN WHILST ROV REMAINS IN GARAGE
2112	FIX KORMORAN BOW 10657 ASSUMING IT IS DIRECTLY UNDER ROV LAUNCH NODE @ RANGE OF 10m E 507213 N 7113061
116	BEGIN RECOVERY OF ROV
2126	EOL DIVE 7

SUNDAY 06 APRIL 2007

2231	ROV ON DECK
2318	ROV OFF DECK

SM301 - KomRecon - 03 - p15 res. tif

Monday 07 April 2008

0001	Vessel Position 26°06'00,9" S 111°04' 18.5" E
0016	SOL Storage file 0033 - Dive 8 - 0001.db
0032	ROV at depth 2511 meters
0050	ROV on seabed 2580 m
0059	Fix 10658 Metal plate
0106	Fix 10659 Metal plate
0112	Fix 10660 Bow of HSK Kormoran
01	Fix 10661 Forward 5.9 inch gun starboard
0206	Fix 10662 Underwater torpedo tube 0222 ROV move TIME
0256	Fix 10663 Starboard side of break off
0322	Fix 10664 Port side of break off
0413	Fix 10665 Forward 5.9 inch gun Port
0424	ROV return to TMS
-48	Start of transit to Way Point "Kormoran Parts"
0532	Arrive at target site 1 26°05' 36,7" S 111°04' 37,1" E
0552	ROV on the seabed 2584 m
0720	ROV return to TMS
0730	Start of transit to Way Point "Kormoran Parts 2"
0843	Arrive at target site 2 26°05' 25,7 S 111°04' 14,3" E
0919	ROV on the seabed 2602 m
1039	ROV return to TMS
1045	Start recovery on ROV
1046	EOL Dive 8
1158	ROV ondeck
1159	Raise USBL pole / BEGIN TRANSIT
1358	ON SYDNEY LOCATION
1405	HIPAP POLE DOWN
27	ROV OFF DECK
1442	SOL DIVE 9 0034 - DIVE9-0001.db HMAS SYDNEY (OVERALL SITE)

MONDAY 07 APRIL 2008

1541	ROV @ 2440m DEEP
1556	ON LOCATION DIRECTOR CONTROL TOWER
1606	TRANSIT 50m @ 315°
1611	AT CABLE NEAR BOW
1613	TRANSIT 40m @ 030°
1618	@ TARGET AFT SEARCH LIGHT PLATFORM
1630	TRANSIT 38m @ 035°
1635	@ TARGET LADDER
1640	TRANSIT 50m @ 126°
1646	@ TARGET FUNNEL
1656	27m @ 164°
1700	@ TARGET LARGE DEBRIS NEAR 2 AMMO BOXES
1713	TRANSIT 36m @ 120°
1716	@ PARAVEN
1721	@ TARGET METAL DEBRIS
1725	TRANSIT 20m 020°
1730	@ TARGET
1732	TRANSIT 20m 060°
1736	@ TARGET
1739	TRAN. 30m @ 157°
1744	@ TARGET UNIDENTIFIED LARGE OBJECT
1753	TRANSIT 37m @ 150°
1800	@ TARGET LARGE DEBRIS
1801	ROV RETURNING TO GARAGE
1806	ROV IN GARAGE
1807	TRANSIT 130m @ 337°
1835	ROV OUT OF GARAGE
1849	TRANSIT 42m @ 264°
1852	TARGET UNIDENTIFIABLE

MONDAY 07 APRIL 2008

1858	TRANSIT 75m @ 180°
1926	@ FUNNEL / TRANSIT 50m @ 270°
1941	@ TARGET PARAVEIN AND MAST
2001	TRANSIT 80m @ 132°
2021	SEARCH LIGHT ON LINE 132° FROM MAST
2025	TRANSIT 30m @ 132° (MOVE AT 2001 NOT FULLY COMPLETED)
2048	@ TARGET TWISTED SUPERSTRUCTURE AND WIRE ON DRUM
2053	TRANSIT 20m @ 180°
2059	4" GUN MOUNT
2104	TRANSIT 50m @ 090°
2107	TARGET HIGH ANGLE CONTROL STATION BASE
2120	TRANSIT 20m @ 180°
2122	TARGET SUPERSTRUCTURE WITH BULKHEAD DOOR PORTHOLES AND LADDER
2136	TRANSIT 44m @ 090°
2142	TARGET TORPEDO TUBES
2156	TRANSIT 36m @ 160°
2159	TARGET BUNDLE OF WIRE
2202	TRANSIT 70m @ 210°
2212	TARGET TORPEDO TUBES
2222	TRANSIT 200m @ 190° TO HMAS SYDNEY WRECK
2250	ARRIVE STERN HMAS SYDNEY
2333	COMPLETED INVESTIGATIONS ON HMAS SYDNEY HULL
2333	TRANSIT 80m @ 260°
2343	COMPLETED DIVING OPERATIONS
2347	EOL DIVE 9

0108	ROV ON DECK
0115	HIPAP POLE UP / GATE VALVE CLOSED
0125	Transit to Geraldton