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THE UNIVERSITY OF TEXAS AT AUSTIN
INSTITUTE FOR GEOPHYSICS
R. V. POLAR DUKE 4-87

PD8704

LINE INFORMATION

CRUISE R/V POLAR DUKE IV-87 LINE # B-01 COURSE _____
PROJECT B.S. SEISMIC AREA BRANSFIELD STRAIT P.I.

	<u>START</u>	<u>END</u>	<u>TOTAL</u>
DATE(JD/DATE)	<u>18 APRIL (JD: 108)</u>	<u>18 APRIL</u>	
TIME(Z)	<u>2044</u>	<u>2220</u>	
LATITUDE	<u>62° 30.363'S</u>	<u>62° 22.46'S</u>	
LONGITUDE	<u>58° 43.137'W</u>	<u>58° 49.96'W</u>	
SHOTPOINT	<u>—</u>	<u>—</u>	
REC NUM	<u>1</u>	<u>447</u>	
TAPE NUM	<u>1</u>	<u>1</u>	
WATER DEPTH	<u>1620 m</u>		
DATA LENGTH (SEC) MIN	<u>6</u>	MAX <u>6</u>	SAMP RATE (MSEC) <u>2ms.</u>
REP RATE(SEC)	<u>12</u>	FOLD(NOMINAL)	<u>—</u>
SEIS TRACES	<u>6 summed</u>	AUX TRACES	<u>—</u> PROBLEM TRACES <u>—</u>
SINGLE CHANNEL MONITOR TRACE #	<u>—</u>		
DISTANCE TO NEAR TRACE (M)	<u>see below</u>		
DISTANCE TO FAR TRACE (M)	<u>"</u>		
SOURCE INFO	<u>350 in³ Bolt[®] water gun</u>		
NAVIGATION SYSTEM INFO	<u>TRANSIT/GPS satellite</u>		
SHOOTING BY	<u>—</u>	DISTANCE	<u>✓</u> TIME

COMMENTS:

STREAMER : 182 m. tow leader
10 m. stretch section w/depth transducer
Total Length: #1 — 25 m. / 4m. phone spacing (100 phones)
414.5 m. #2 — 50m / 1m. phone spacing (50 phones)
#3 — "
#4 — "
#5 — same as #1
#6 — 12.5m / 2m phone spacing (62.5 phones?)
10 m. tail section w/depth transducer

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LINE INFORMATION

CRUISE R/V POLAR DUKE IV 87 LINE # B-02 COURSE 242°
PROJECT BRANFELD STRAIT, SEISMIC AREA B.S. P.I. —

	<u>START</u>	<u>END</u>	<u>TOTAL</u>
DATE(JD/DATE)	<u>19 April</u>	<u>20 April</u>	
TIME(Z)	<u>0647Z</u>	<u>0249Z</u>	
LATITUDE	<u>62° 10.912'S</u>	<u>63 00.47 S</u>	
LONGITUDE	<u>57° 40.040'W</u>	<u>60 21.00W</u>	
SHOTPOINT	<u>1</u>	<u>1439</u>	
REC NUM	<u>1</u>	<u>1439</u>	
TAPE NUM	<u>2</u>	<u>6</u>	
WATER DEPTH			
DATA LENGTH (SEC) MIN	<u>4</u>	MAX <u>4</u>	SAMP RATE (MSEC) <u>2ms</u>
REP RATE(SEC)	<u>6</u>	FOLD(NOMINAL)	<u>—</u>
SEIS TRACES	<u>2</u>	AUX TRACES	<u>—</u> PROBLEM TRACES <u>—</u>
SINGLE CHANNEL MONITOR TRACE #	<u>1 AND 2 (summed), 1-3 @ 0925Z</u>		
DISTANCE TO NEAR TRACE (M)	<u>(see Line 1)</u>		
DISTANCE TO FAR TRACE (M)	<u>(see Line 1)</u>		
SOURCE INFO	<u>100 in³ HAMCO water gun</u>		
NAVIGATION SYSTEM INFO	<u>TRANSIT/GPS satellite</u>		
SHOOTING BY	<u>—</u>	DISTANCE	<u>✓</u> TIME
<u>COMMENTS:</u>			

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LINE INFORMATION

CRUISE POLAR DUKE IV-87 LINE # B-03 COURSE ~228° (232°)
PROJECT B.S. SEISMIC AREA Deception I. to Austin Rx. P.I. _____

	<u>START</u>	<u>END</u>	<u>TOTAL</u>
DATE(JD/DATE)	<u>20 April 1987</u>	<u>20 April 1987</u>	
TIME(Z)	<u>0418Z</u>	<u>1305Z</u>	
LATITUDE	<u>63° 00.075'S</u>	<u>63° 23.59'S</u>	
LONGITUDE	<u>60° 14.901'W</u>	<u>61° 22.35'W</u>	
SHOTPOINT	<u>1440</u>	<u>2170</u>	<u>1440 - 4500</u> tape 6
REC NUM	<u>1440</u>	<u>2170</u>	<u>1 - 2170</u> tape 7
TAPE NUM	<u>6</u>	<u>7</u>	
WATER DEPTH	<u>-</u>	<u>-</u>	
DATA LENGTH (SEC) MIN	<u>4</u>	MAX <u>4</u>	SAMP RATE (MSEC) <u>2ms</u>
REP RATE(SEC)	<u>6</u>	FOLD(NOMINAL)	
SEIS TRACES	<u>2</u>	AUX TRACES <u>-</u>	PROBLEM TRACES <u>-</u>
SINGLE CHANNEL MONITOR TRACE #	<u>1 & 2 summed</u>		
DISTANCE TO NEAR TRACE (M)	<u>see line # 1</u>		
DISTANCE TO FAR TRACE (M)	<u>see line # 1</u>		
SOURCE INFO	<u>1 - 100 in³ HAMCO W.G.</u>		
NAVIGATION SYSTEM INFO	<u>GPS / SATNAV / TRANSIT</u>		
SHOOTING BY	DISTANCE	<input checked="" type="checkbox"/>	TIME

COMMENTS:

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LINE INFORMATION

CRUISE POLAR DUKE IV - LINE # 4 COURSE 235°
PROJECT B.S. Seismic AREA Austin Rx → Sht/nd Trench P.I.

	<u>START</u>	<u>END</u>	<u>TOTAL</u>
DATE(JD/DATE)	<u>20 April 1987</u>	<u>21 April 1987</u>	
TIME(Z)	<u>1535 Z</u>	<u>1903 Z</u>	
LATITUDE	<u>63° 21.504' S</u>	<u>61° 23.913' S</u>	
LONGITUDE	<u>61° 22.774' W</u>	<u>63° 21.725' W</u>	
SHOTPOINT	<u>2</u>	<u>3854</u>	
REC NUM	<u>2</u>	<u>3854</u>	
TAPE NUM	<u>8</u>	<u>9</u>	
WATER DEPTH	<u>1150 m</u>	<u>3550 m.</u>	
DATA LENGTH (SEC) MIN	<u>6</u>	MAX <u>same</u>	SAMP RATE (MSEC) <u>2</u>
REP RATE(SEC)	<u>12</u>	FOLD(NOMINAL) <u>—</u>	
SEIS TRACES	<u>142 - @start</u>	AUX TRACES	PROBLEM TRACES
SINGLE CHANNEL MONITOR TRACE #	<u>142 summed @ start, #3 @ 0500Z, 21 April</u>		
DISTANCE TO NEAR TRACE (M)	<u>(see Line 1)</u>		<u>#4 @ 0702Z, 21 April</u>
DISTANCE TO FAR TRACE (M)	<u>(see Line 1)</u>		<u>#5 @ 1210Z, 21 April</u>
SOURCE INFO	<u>Bolt 350 [REDACTED] in³ water gun, HAMCO 100 in³ water gun</u>		
NAVIGATION SYSTEM INFO	<u>TRANSIT/GPS satellite</u>		
SHOOTING BY	DISTANCE	<u>✓</u>	TIME

COMMENTS:

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LINE INFORMATION

CRUISE R/V Polar Duke IV-87 LINE # 5 COURSE _____

PROJECT SOUTH SHETLAND AREA SOUTH SHETLAND P.I. _____
FOREARC/BRANSFIELD STRAIT FOREARC

SEISMIC

	<u>START</u>	<u>END</u>	<u>TOTAL</u>
DATE(JD/DATE)	<u>21 APRIL</u>	<u>22 April</u>	
TIME(Z)	<u>1940Z</u>	<u>1438Z</u>	
LATITUDE	<u>61° 24.655' S</u>	<u>62° 50.45</u>	
LONGITUDE	<u>63° 19.224' W</u>	<u>65° 00.22</u>	
SHOTPOINT	<u>2</u>	<u>1542</u>	
REC NUM	<u>2</u>	<u>1542</u>	
TAPE NUM	<u>10</u>	<u>12</u>	
WATER DEPTH	<u>3598 m.</u>	<u>3185 m</u>	
DATA LENGTH (SEC) MIN	<u>2</u>	MAX <u>8</u>	SAMP RATE (MSEC) <u>2</u>
REP RATE(SEC)	<u>12</u>	FOLD(NOMINAL)	<u>—</u>
SEIS TRACES	<u>5</u>	AUX TRACES	<u>—</u> PROBLEM TRACES <u>—</u>
SINGLE CHANNEL MONITOR TRACE #	<u>ALL.</u>		
DISTANCE TO NEAR TRACE (M)	<u>(see Line 1)</u>		
DISTANCE TO FAR TRACE (M)	<u>(see Line 1)</u>		
SOURCE INFO	<u>100 in³ HAMCO water gun</u>		
NAVIGATION SYSTEM INFO	<u>TRANSIT/GPS satellite</u>		
SHOOTING BY	DISTANCE	<u>✓</u>	TIME
<u>COMMENTS:</u>			

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LINE INFORMATION

CRUISE R/V POLAR DUKE IV⁸⁷ LINE # 6 COURSE 110°
PROJECT S. SHETLAND FOREARC AREA S. SHETLAND FOREARC P.I. _____

	<u>START</u>	<u>END</u>	<u>TOTAL</u>
DATE(JD/DATE)	<u>22 April</u>	<u>23 April</u>	
TIME(Z)	<u>1507 Z</u>	<u>0234 Z</u>	
LATITUDE	<u>62° 51.64</u>	<u>63° 20.56</u>	
LONGITUDE	<u>64° 58.45</u>	<u>63° 04.13</u>	
SHOTPOINT	<u>1544</u>	<u>1994</u>	
REC NUM	<u>1544</u>		
TAPE NUM	<u>12</u>	<u>13</u>	
WATER DEPTH	<u>3202 m(unc.)</u>	<u>570 m</u>	
DATA LENGTH (SEC) MIN	<u>2</u> <u>0</u>	MAX <u>8</u> <u>6</u>	SAMP RATE (MSEC) <u>2</u>
REP RATE(SEC)	<u>12</u>	FOLD(NOMINAL) <u>—</u>	
SEIS TRACES	<u>5</u>	AUX TRACES <u>—</u>	PROBLEM TRACES <u>—</u>
SINGLE CHANNEL MONITOR TRACE #	<u>ALL</u>		
DISTANCE TO NEAR TRACE (M)	<u>(see line 1)</u>		
DISTANCE TO FAR TRACE (M)	<u>(see line 1)</u>		
SOURCE INFO	<u>125 in³</u>	<u>BOLT AIR GUN</u>	
NAVIGATION SYSTEM INFO	<u>TRANSIT / GPS</u>		
SHOOTING BY	_____	DISTANCE <u>✓</u>	TIME

COMMENTS:

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LINE INFORMATION

CRUISE R/V Polar Duke IV- '87 LINE # 7 COURSE 060
PROJECT S. SHETLAND FOREARC AREA SMITH ISLAND P.I. _____

	<u>START</u>	<u>END</u>	<u>TOTAL</u>
DATE(JD/DATE)	<u>23 April</u>	<u>23 April</u>	
TIME(Z)	<u>0243 Z</u>	<u>1244 Z</u>	
LATITUDE	<u>63° 20.403</u>	<u>62° 59.981</u>	
LONGITUDE	<u>63° 03.003</u>	<u>61° 41.242</u>	
SHOTPOINT	<u>1996</u>	<u>2376</u>	
REC NUM	<u>1996</u>	<u>2376</u>	
TAPE NUM	<u>13</u>	<u>14</u>	
WATER DEPTH	<u>570 m</u>	<u>350 m</u>	
DATA LENGTH (SEC) MIN	<u>0</u>	MAX <u>6</u>	SAMP RATE (MSEC) <u>2 ms</u>
REP RATE(SEC)	<u>12</u>	FOLD(NOMINAL)	<u>-</u>
SEIS TRACES	<u>5</u>	AUX TRACES	<u>-</u> PROBLEM TRACES <u>-</u>
SINGLE CHANNEL MONITOR TRACE #	<u>ALL</u>		
DISTANCE TO NEAR TRACE (M)	<u>(see line 1)</u>		
DISTANCE TO FAR TRACE (M)	<u>(see line 1)</u>		
SOURCE INFO	<u>125 in³ BOLT AIR GUN</u>		
NAVIGATION SYSTEM INFO	<u>TRANSIT/GPS</u>		
SHOOTING BY	DISTANCE	<u>✓</u>	TIME
<u>COMMENTS:</u>			

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LINE INFORMATION

CRUISE POLAR DUKE IV - '87 LINE # 8 COURSE 140
PROJECT BRANSFIELD ST. SEIS. AREA AREA BRANSFIELD STRAIT P.I. _____

	<u>START</u>	<u>END</u>	<u>TOTAL</u>
DATE(JD/DATE)	<u>23 April</u>	<u>23 April</u>	
TIME(Z)	<u>1517 z</u>	<u>2005z</u>	
LATITUDE	<u>63° 04.485'S</u>	<u>63° 24.44'S</u>	
LONGITUDE	<u>62° 00.173'W</u>	<u>61° 19.47'W</u>	
SHOTPOINT	<u>2377</u>	<u>4001</u>	<u>2377-4001</u>
REC NUM	<u>2377</u>	<u>4001</u>	
TAPE NUM	<u>14</u>	<u>14</u>	
WATER DEPTH	<u>805m</u>	<u>-</u>	
DATA LENGTH (SEC) MIN	<u>0</u>	MAX <u>6</u>	SAMP RATE (MSEC) <u>2 ms</u>
REP RATE(SEC)	<u>12</u>	FOLD(NOMINAL) <u>-</u>	
SEIS TRACES	<u>5</u>	AUX TRACES <u>-</u>	PROBLEM TRACES <u>-</u>
SINGLE CHANNEL MONITOR TRACE #	<u>1,2 1,2</u>		
DISTANCE TO NEAR TRACE (M)	<u>(see line 1)</u>		
DISTANCE TO FAR TRACE (M)	<u>(see line 1)</u>		
SOURCE INFO	<u>100 in³ Hamco Water Gun</u>		
NAVIGATION SYSTEM INFO	<u>TRANSIT / GDRT</u>		
SHOOTING BY	DISTANCE	<input checked="" type="checkbox"/>	TIME
<u>COMMENTS:</u>			

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LINE INFORMATION

CRUISE R/V Polar Duke IV-87 LINE # 9 COURSE _____
PROJECT Bransfield Strait Seismic AREA Smith Island P.I. _____

	<u>START</u>	<u>END</u>	<u>TOTAL</u>
DATE(JD/DATE)	<u>26 April</u>	<u>27 April</u>	
TIME(Z)	<u>2249 Z</u>	<u>0348 Z</u>	
LATITUDE	<u>S 63° 39.34'</u>	<u>63° 22.995'S</u>	} <u>0355 Z</u>
LONGITUDE	<u>W 62° 05.20'</u>	<u>61° 21.481'W</u>	
SHOTPOINT	<u>3</u>	<u>1320</u>	
REC NUM	<u>3</u>	<u>1320</u>	
TAPE NUM	<u>15</u>	<u>15</u>	
WATER DEPTH	<u>283m</u>		
DATA LENGTH (SEC) MIN	<u>4</u>	MAX <u>4</u>	SAMP RATE (MSEC) <u>4ms</u>
REP RATE(SEC)	<u>12</u>	FOLD(NOMINAL) <u>—</u>	
SEIS TRACES	<u>1+2 summed</u>	<u>#3 @ 0008Z</u>	PROBLEM TRACES <u>—</u>
SINGLE CHANNEL MONITOR TRACE #	_____		
DISTANCE TO NEAR TRACE (M)	<u>See below</u>		
DISTANCE TO FAR TRACE (M)	<u>"</u>		
SOURCE INFO	<u>100 cu.in. Hancock watergun until 0303Z, then Bolt 125 in³ airgun.</u>		
NAVIGATION SYSTEM INFO	<u>Transit/GPS Satellite</u>		
SHOOTING BY	_____	DISTANCE <u>✓</u>	TIME _____

COMMENTS:

Using 100m of leader (rather than the 200m used for lines 1-8)
Streamer: 100m tow leader
10m stretch section w/depth transducer
#1 25m/.4m phone spacing (100 phones)
#2 50m/1m " " (50 phones)
#3 #4 "
#5 same as #1
10m tail section w/depth transducer

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LINE INFORMATION

CRUISE R/V Polar Duke IV-87 LINE # 10 COURSE -
PROJECT BRANSFIELD STRAIT SEISMIC AREA DECEPTION ISLAND P.I.

	<u>START</u>	<u>END</u>	<u>TOTAL</u>
DATE(JD/DATE)	<u>27 APRIL</u>		
TIME(Z)	<u>0837Z</u>	<u>1151Z</u>	
LATITUDE	<u>62° 52.146'S</u>	<u>62° 44.69'S</u>	
LONGITUDE	<u>61° 06.553'W</u>	<u>60° 35.40'W</u>	
SHOTPOINT	<u>1</u>	<u>970</u>	
REC NUM	<u>1</u>	<u>970</u>	
TAPE NUM	<u>16</u>	<u>16</u>	
WATER DEPTH	<u>278 m</u>	<u>393 m</u>	
DATA LENGTH (SEC) MIN	<u>0</u>	MAX <u>4</u>	SAMP RATE (MSEC) <u>4</u>
REP RATE(SEC)	<u>12</u>	FOLD(NOMINAL)	<u>-</u>
SEIS TRACES	<u>142</u>	AUX TRACES	PROBLEM TRACES
SINGLE CHANNEL MONITOR TRACE #	<u>Sum</u>		
DISTANCE TO NEAR TRACE (M)	<u>(see Lines 1 and 9)</u>		
DISTANCE TO FAR TRACE (M)	<u>"</u>		
SOURCE INFO	<u>100 in³ HAMCO water gun</u>		
NAVIGATION SYSTEM INFO	<u>TRANSIT/GPS satellite</u>		
SHOOTING BY	DISTANCE	<u>✓</u>	TIME
<u>COMMENTS:</u>			

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LINE INFORMATION

CRUISE R/V Polar Duke IV-87 LINE # 11 COURSE 155

PROJECT Bramfield Strait AREA Deception Island P.I.

	<u>START</u>	<u>END</u>	<u>TOTAL</u>
DATE(JD/DATE)	<u>27 April 87</u>	<u>27 April 1987</u>	
TIME(Z)	<u>1151Z</u>	<u>1745Z</u>	
LATITUDE	<u>S 62° 44.69'</u>	<u>63° 10.375' S</u>	
LONGITUDE	<u>W 60° 35.40'</u>	<u>60° 25.350' W</u>	
SHOTPOINT	<u>■</u>		
REC NUM	<u>971</u>	<u>2561</u>	
TAPE NUM	<u>16</u>	<u>16</u>	
WATER DEPTH	<u>393 m</u>	<u>—</u>	
DATA LENGTH (SEC) MIN	<u>0</u>	MAX <u>4</u>	SAMP RATE (MSEC) <u>4</u>
REP RATE(SEC)	<u>12</u>	FOLD(NOMINAL)	<u>—</u>
SEIS TRACES	<u>182</u>	AUX TRACES	PROBLEM TRACES
SINGLE CHANNEL MONITOR TRACE #	<u>Sum</u>		
DISTANCE TO NEAR TRACE (M)	<u>See lines 9</u>		
DISTANCE TO FAR TRACE (M)	<u>See Line 9</u>		
SOURCE INFO	<u>100 in³ Hamco Watergun</u>		
NAVIGATION SYSTEM INFO	<u>Transit / GPS Satellite</u>		
SHOOTING BY	<u>—</u>	DISTANCE <u>✓</u>	TIME

COMMENTS:

Line cut short and altered as a result of
pack ice SE of Deception Is.

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LINE INFORMATION

CRUISE R/V POLAR DUKE IV-87 LINE # 12 COURSE —
PROJECT BRANSFIELD STRAIT SEISMIC AREA W. OF DECEPTION Is. P.I. —

	<u>START</u>	<u>END</u>	<u>TOTAL</u>
DATE(JD/DATE)	<u>27 April</u>	<u>27 April</u>	
TIME(Z)	<u>1745Z</u>	<u>2240Z</u>	
LATITUDE	<u>63° 10.375' S</u>	<u>62° 51.802' S</u>	
LONGITUDE	<u>60° 25.350' W</u>	<u>61° 06.493' W</u>	
SHOTPOINT	<u>2562</u>	<u>4215</u>	
REC NUM	<u>2562</u>	<u>4215</u>	
TAPE NUM	<u>16</u>	<u>16</u>	
WATER DEPTH		<u>252 m</u>	
DATA LENGTH (SEC) MIN	<u>0</u>	MAX <u>4</u>	SAMP RATE (MSEC) <u>4</u>
REP RATE(SEC)	<u>12</u>	FOLD(NOMINAL)	<u>—</u>
SEIS TRACES	<u>1+2</u>	AUX TRACES	<u>—</u> PROBLEM TRACES <u>—</u>
SINGLE CHANNEL MONITOR TRACE #	<u>Sum</u>		
DISTANCE TO NEAR TRACE (M)	<u>(see Line 9)</u>		
DISTANCE TO FAR TRACE (M)	<u>(see Line 9)</u>		
SOURCE INFO	<u>100 in³ HAMCO water gun</u>		
NAVIGATION SYSTEM INFO	<u>TRANSIT/GPS satellite</u>		
SHOOTING BY	<u>—</u>	DISTANCE <u>✓</u>	TIME

COMMENTS:

Previously line 13 — pack ice deleted old line 12.

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LINE INFORMATION

CRUISE R/V Polar Duke IV - '87 LINE # B - 13 COURSE 305
PROJECT Brans. Strait Seismic AREA S. Shetland Trench P.I. —

	<u>START</u>	<u>END</u>	<u>TOTAL</u>
DATE(JD/DATE)	<u>28 April</u>	<u>28 April</u>	
TIME(Z)	<u>0209Z</u>	<u>1822Z</u>	
LATITUDE	<u>62° 55.255'S</u>	<u>62° 12.1'S</u>	
LONGITUDE	<u>61° 44.669'W</u>	<u>63° 56.0'W</u>	
SHOTPOINT	<u>2</u>	<u>341</u>	
REC NUM	<u>2</u>	<u>341</u>	
TAPE NUM	<u>17</u>	<u>18</u>	
WATER DEPTH	<u>225 m</u>	<u>—</u>	
DATA LENGTH (SEC) MIN	<u>0 sec</u>	MAX <u>8 sec</u>	SAMP RATE (MSEC) <u>4 msec</u>
REP RATE(SEC)	<u>12</u>	FOLD(NOMINAL) <u>—</u>	
SEIS TRACES	142 <u>1+2</u> , <u>3@ 1120Z</u> , <u>4+5@ 1323Z</u>	AUX TRACES	PROBLEM TRACES
SINGLE CHANNEL MONITOR TRACE #	<u>Sum</u>		
DISTANCE TO NEAR TRACE (M)	<u>(see Line 9)</u>	*	
DISTANCE TO FAR TRACE (M)	<u>(see Line 9)</u>	*	
SOURCE INFO	<u>125 in³ BOLT AIR GUN</u>		
NAVIGATION SYSTEM INFO	<u>TRANSIT / GPS</u>		
SHOOTING BY	<u>—</u>	DISTANCE <u>✓</u>	TIME

COMMENTS:

* Leader extended to 200m (600 ft.).

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LINE INFORMATION

CRUISE R/V POLAR DUKE IV-87 LINE # 14 COURSE -
PROJECT BRANSFIELD STRAIT SEISMIC AREA S. SHETLAND FOREARC P.I. -

	<u>START</u>	<u>END</u>	<u>TOTAL</u>
DATE(JD/DATE)	<u>28 April</u>	<u>29 April</u>	
TIME(Z)	<u>1855Z</u>	<u>0031Z</u>	
LATITUDE	<u>62° 11.064' S</u>	<u>62° 35.069</u>	
LONGITUDE	<u>63° 54.978' W</u>	<u>64° 22.512</u>	
SHOTPOINT	<u>342</u>	<u>81</u>	
REC NUM	<u>342</u>	<u>81</u>	
TAPE NUM	<u>18</u>	<u>19</u>	
WATER DEPTH	<u>~4070 m.</u>	<u>3850 m</u>	
DATA LENGTH (SEC) MIN	<u>0</u>	MAX <u>8</u>	SAMP RATE (MSEC) <u>4</u>
REP RATE(SEC)	<u>12</u>	FOLD(NOMINAL)	<u>-</u>
SEIS TRACES	<u>1-5</u>	AUX TRACES	<u>-</u> PROBLEM TRACES <u>-</u>
SINGLE CHANNEL MONITOR TRACE #	<u>Summed</u>		
DISTANCE TO NEAR TRACE (M)	<u>(see Line 1)</u>		
DISTANCE TO FAR TRACE (M)	<u>(see Line 1)</u>		
SOURCE INFO	<u>125 in.³ BOLT AIR GUN</u>		
NAVIGATION SYSTEM INFO	<u>TRANSIT / GPS SATELLITE</u>		
SHOOTING BY	<u>-</u>	DISTANCE	<u>✓</u> TIME
<u>COMMENTS:</u>			

THE UNIVERSITY OF TEXAS AT AUSTIN
INSTITUTE FOR GEOPHYSICS
R. V. POLAR DUKE 4-87

LINE INFORMATION

CRUISE R/V Polar Duke IV ^{'87} LINE # 15 COURSE —

PROJECT BRANS. STRAIT SEISMIC AREA S. SHETLAND FOREARC P.I. —

	<u>START</u>	<u>END</u>	<u>TOTAL</u>
DATE(JD/DATE)	<u>29 April</u>	<u>29 April</u>	
TIME(Z)	<u>0052 Z</u>	<u>07 Z</u>	
LATITUDE	<u>62° 34.658'S</u>	<u>62° 24.506'S</u>	
LONGITUDE	<u>64° 22.120'W</u>	<u>63° 12.772'W</u>	
SHOTPOINT	<u>82</u>	<u>1971</u>	
REC NUM	<u>82</u>	<u>1971</u>	
TAPE NUM	<u>19</u>	<u>19</u>	
WATER DEPTH	<u>3850 m</u>	<u>4000 m.</u>	
DATA LENGTH (SEC) MIN	<u>0</u>	MAX <u>8</u>	SAMP RATE (MSEC) <u>4</u>
REP RATE(SEC)	<u>12</u>	FOLD(NOMINAL)	<u>—</u>
SEIS TRACES	<u>1-5</u>	AUX TRACES	<u>—</u> PROBLEM TRACES <u>—</u>
SINGLE CHANNEL MONITOR TRACE #	<u>summed</u>		
DISTANCE TO NEAR TRACE (M)	<u>(see line 1)</u>		
DISTANCE TO FAR TRACE (M)	<u>(see line 1)</u>		
SOURCE INFO	<u>125 in³ Bolt Air Gun</u>		
NAVIGATION SYSTEM INFO	<u>TRANSIT/GPS</u>		
SHOOTING BY	<u>—</u>	DISTANCE	<u>✓</u> TIME
<u>COMMENTS:</u>			

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LINE INFORMATION

CRUISE R/V POLAR DUKE IV-87 LINE # 16 COURSE —
PROJECT BRANSFIELD STRAIT SEISMIC AREA S. SHETLAND FOREARC P.I.

	<u>START</u>	<u>END</u>	<u>TOTAL</u>
DATE(JD/DATE)	<u>29 April</u>	<u>29 April</u>	
TIME(Z)	<u>0742 Z</u>	<u>1536 Z</u>	
LATITUDE	<u>62° 24.610'S</u>	<u>63° 05.030</u>	
LONGITUDE	<u>63° 14.049'W</u>	<u>63° 21.946</u>	
SHOTPOINT	<u>1972</u>	<u>4344</u>	
REC NUM	<u>1972</u>	<u>4344</u>	
TAPE NUM	<u>19</u>	<u>19</u>	
WATER DEPTH	<u>4095 m</u>	<u>430 m</u>	
DATA LENGTH (SEC) MIN	<u>0</u>	MAX <u>8</u>	SAMP RATE (MSEC) <u>4</u>
REP RATE(SEC)	<u>12</u>	FOLD(NOMINAL)	<u>—</u>
SEIS TRACES	<u>1-5 @ START</u>	AUX TRACES	<u>—</u> PROBLEM TRACES <u>—</u>
SINGLE CHANNEL MONITOR TRACE #	<u>Sum</u>		
DISTANCE TO NEAR TRACE (M)	<u>(see Line 1)</u>		
DISTANCE TO FAR TRACE (M)	<u>(see Line 1)</u>		
SOURCE INFO	<u>Bott 125 in³ air gun</u>		
NAVIGATION SYSTEM INFO	<u>TRANSIT / GPS</u>	<u>satellite</u>	
SHOOTING BY	<u>—</u>	DISTANCE <u>✓</u>	TIME <u>—</u>

COMMENTS:

1244 Z begin summing streamer sections 1-4 only
1250 Z begin summing 1-3 only
1419 Z begin summing 1+2 only

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LINE INFORMATION

CRUISE R/V POLAR DUKE IV-87 LINE # B-17 COURSE —
PROJECT BRANSFIELD STRAIT SEISMIC AREA SMITH IS. P.I. —

	<u>START</u>	<u>END</u>	<u>TOTAL</u>
DATE(JD/DATE)	<u>29 April</u>	<u>30 April</u>	
TIME(Z)	<u>1623Z</u>	<u>0101 Z</u>	
LATITUDE	<u>63° 04.969' S</u>	<u>62° 40.551' S</u>	
LONGITUDE	<u>63° 21.981' W</u>	<u>62° 00.146' W</u>	
SHOTPOINT	<u>1</u>	<u>2591</u>	
REC NUM	<u>1</u>	<u>2591</u>	
TAPE NUM	<u>20</u>	<u>20</u>	
WATER DEPTH		<u>620 m</u>	
DATA LENGTH (SEC) MIN	<u>0</u>	MAX <u>8</u>	SAMP RATE (MSEC) <u>4ms</u>
REP RATE(SEC)	<u>12</u>	FOLD(NOMINAL)	<u>—</u>
SEIS TRACES	<u>142</u>	AUX TRACES	<u>—</u> PROBLEM TRACES <u>—</u>
SINGLE CHANNEL MONITOR TRACE #	<u>Sum</u>		
DISTANCE TO NEAR TRACE (M)	<u>see Line 1</u>		
DISTANCE TO FAR TRACE (M)	<u>see Line 1</u>		
SOURCE INFO	<u>Bolt 125 in³ air gun</u>		
NAVIGATION SYSTEM INFO	<u>Transit/ GPS satellite</u>		
SHOOTING BY		DISTANCE <u>✓</u>	TIME

COMMENTS: