

231001

SEISMIC SUPERVISION REPORT
FOR
BRIDGE OIL LIMITED
IN
BLOCK T-19-P
OF
THE BASS BASIN
NOVEMBER 17, 1985 - NOVEMBER 23, 1985

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ECL Australia Pty Ltd
16 Altona Street
West Perth 6005
Western Australia

TPR
OR-0215

CONTENTS

231002

INTRODUCTION

1. SURVEY SUMMARY
2. PRODUCTION LOG
3. DAILY SUMMARY
4. DAILY TIME LOG
5. STATISTICAL ANALYSIS OF PROJECT TIME
6. CLIENT CHARGEABLE TIME
7. DISCUSSION, RECOMMENDATIONS AND CONCLUSIONS
8. DAILY DIARY

APPENDICES

- A. PRODUCTION REPORT TELEXES

The subject of this report is the 1985 Seismic Survey carried out by Bridge Oil Limited in block T-19-P of the Bass Basin. The contractor selected for the data acquisition was Geophysical Services Incorporated using the vessel Eugene McDermott II. ECL Australia Pty Ltd was chosen by the client to supervise the data collection operations.

The survey was executed to normal industry standards using the original work specifications in all areas. The period during which the survey work was done was coincident with a good period of weather and this, in combination with good equipment performance, resulted in the project being completed very efficiently.

As the contractor was already in the area prior to the survey and remained there to continue working for another client following this survey the mobilisation/demobilisation activities and times were minimal.

This report is a full and detailed account of the conduct of the survey and includes analyses and discussions which are intended to reflect the contractors performance.

1. SURVEY SUMMARY

231004

General

Client : Bridge Oil Limited
Contractor : Geophysical Services Incorporated
Prospect : 1985 Bass Basin Survey
Coverage : 668.970 Surface Kilometres
Fold : 48

Instruments

System : TI/GSI Trace Sequential Recorder
Format : SEG D, 2 Byte, Quaternary Exponent, Demultiplexed.
Sample Rate : 2 Milliseconds, Recorded
1 Millisecond, Sampled.
Tape Speed : 125 inches per second.
Recording
Density : 6250 BPI
Low Cut
Filter : 8 Hz, 18 dB/Octave
Anti Alias
Filter : 128 Hz, 72 dB/Octave
Polarity : Positive numbers recorded, upward deflection of
galvos on pressure increase.
Record Length: 6 seconds
Data Channels: 192
Preamp Gain : 12 dB
A/D Converter: 12 Bit + Sign
Gain Mode : I.F.P.

Streamer

Type : GSI 240 Channel Digital Streamer, Phase II.
Overall Length: 2880 metres (Active)
Group Length : 15 metres, 40 hydrophones/group.
Offset : 194 metres.
Sensitivity : 8.2 microvolts/microbar +/- 2 dB.
Depth
Controllers : Syntron RCL2, 10 individually remote controlled.
Depth
Indicators : 16 transducers incorporated in each Live 1 section
adjacent to the SEM. Sampled and displayed by the TSR
system.

Energy Source

Type : Tuned Airgun Array
Volume : 4075 cu.in.
Pressure : 1900 psi
Output : 68 Barmeters
Bubble Ratio : 9.35:1
Compressors : 3 Le Roi 750 screw type, 3 Norwalk C600
CFM Output : 15 at 2200 psi

231005

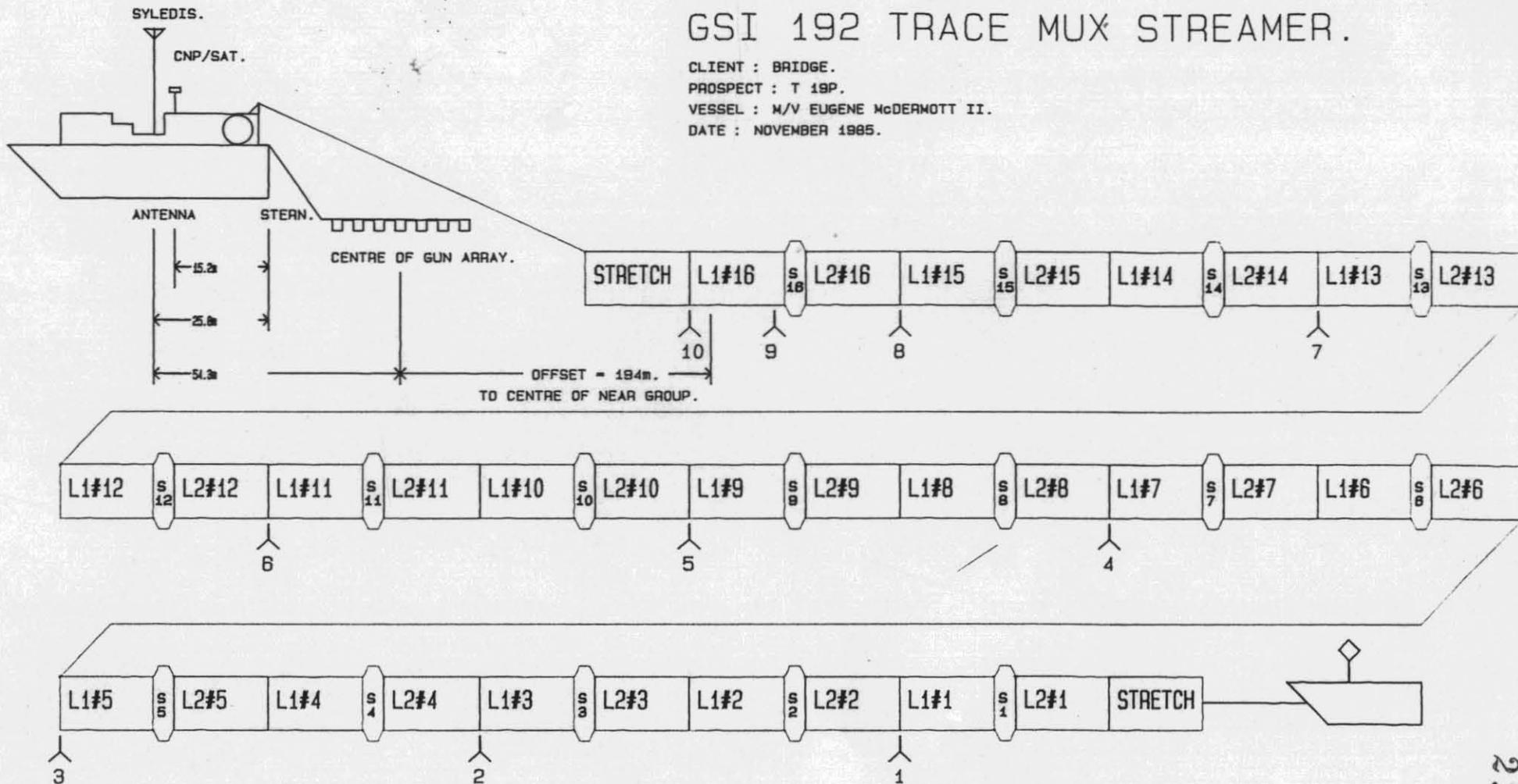
Gun Timing
Unit : Tiger II
Timing
Variance : +/-2 milliseconds
Depth of
Array : 6 metres.

Navigation

Primary System: Cubic Western DM54 Argo, Range-Range Mode
Secondary
System : Sercel Syledis, Range-Range Mode.
Consisting of: 100% redundancy sparing level of electronics.
Secondary
System : 1 Mobile station, 5 base stations with complete spare
Consisting of: mobile and 2 spare beacons.
Line Control
System : CMS using 3/4 way Argo range fixing.

GS1 192 TRACE MUX STREAMER.

CLIENT : BRIDGE.
 PROSPECT : T 19P.
 VESSEL : M/V EUGENE McDERMOTT II.
 DATE : NOVEMBER 1985.



NOTE :

- 1 : TOTAL LENGTH OF A L1/SEM/L2 CLUSTER IS 180m.
- 2 : GROUP LENGTH IS 15m.
- 3 : OFFSET CALCULATION : $2 \times 100\text{m STRETCH} + 10\text{m (CABLE TOW CLAMP)} + 7.5\text{m (CENTRE OF NEAR GROUP)} + 8\text{m (8 \% STRETCH FACTOR)} - 28.5\text{m (STERN TO CENTRE OF GUNS)} !$
- 4 : THE CENTRAL NAV POINT IS THE POSITION THAT ALL ANTENNAE ARE REFERENCED TO ie. A SHOT OCCURS WHEN THE CNP IS OVER THE PREPLOTTED SHOTPOINT CO-ORDINATE !

 CABLE LEVELLER.

231007

Base Station Co-ordinates

<u>Argo Station</u>	<u>Latitude</u>	<u>Longitude</u>
Point Sorell	041 DEG 07 MIN 23.63 SEC S	146 DEG 31 MIN 42.34 SEC E
North Point	040 DEG 42 MIN 52.15 SEC S	145 DEG 15 MIN 30.28 SEC E
Naracoopa	039 DEG 55 MIN 29.05 SEC S	144 DEG 07 MIN 39.03 SEC E
Cape Liptrap	038 DEG 53 MIN 35.54 SEC S	145 DEG 56 MIN 53.40 SEC E

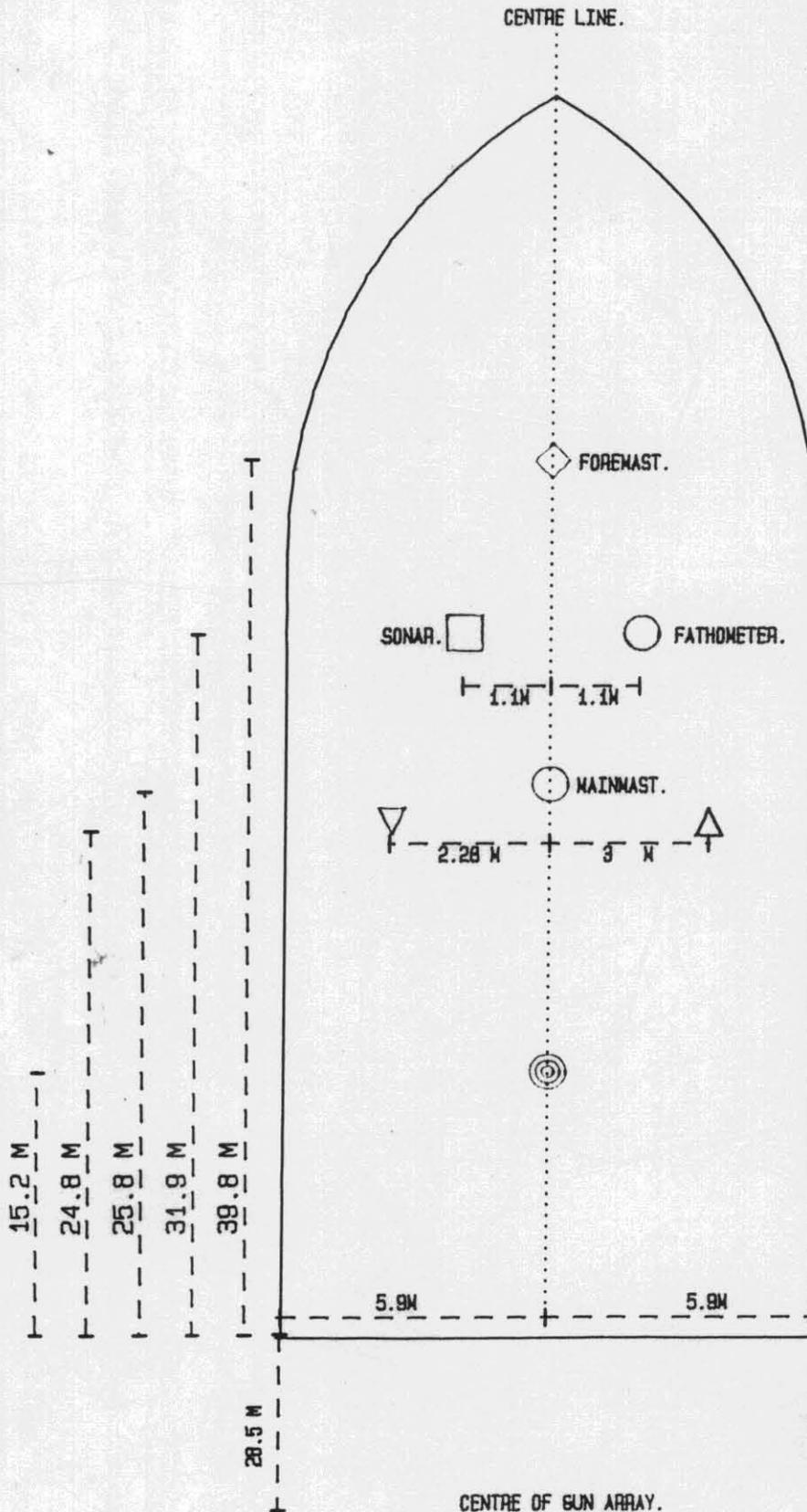
Syledis Station

Point Sorrell	041 DEG 07 MIN 24.73 SEC S	146 DEG 31 MIN 41.93 SEC E
North Point	040 DEG 42 MIN 51.40 SEC S	145 DEG 15 MIN 31.31 SEC E
Naracoopa	039 DEG 55 MIN 29.95 SEC S	144 DEG 07 MIN 39.47 SEC E
Cape Liptrap	038 DEG 53 MIN 35.43 SEC S	145 DEG 56 MIN 51.54 SEC E
Diamond M Epoch	039 DEG 53 MIN 36.53 SEC S	145 DEG 58 MIN 37.08 SEC E

M/V EUGENE McDERMOTT II ²³¹⁰⁰⁹

CLIENT: BRIDGE.

DATE: NOVEMBER 1985

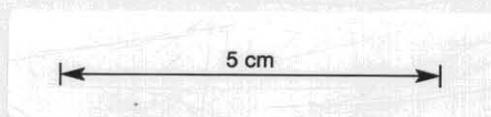


KEY.

- ◇ .
- SYLEDIS.
- ▽ ARGO ANT.
- △ .
- ◎ CENTRAL NAV POINT (SAT ANT).

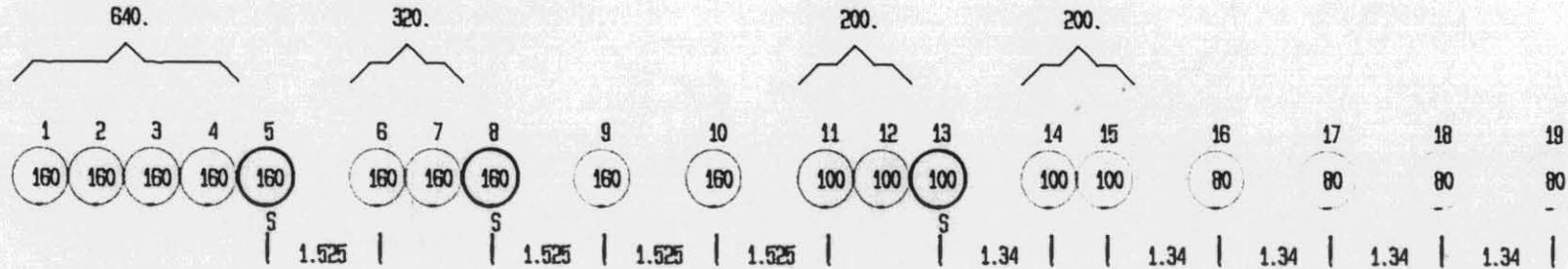
THE CENTRAL NAV POINT IS THE POSITION THAT ALL ANTENNAE ARE REFERENCED TO i.e. A SHOT OCCURS WHEN THE CNP IS OVER THE PREPLOTTED SHOTPOINT CO-ORDINATE !

CENTRE OF SUN ARRAY.

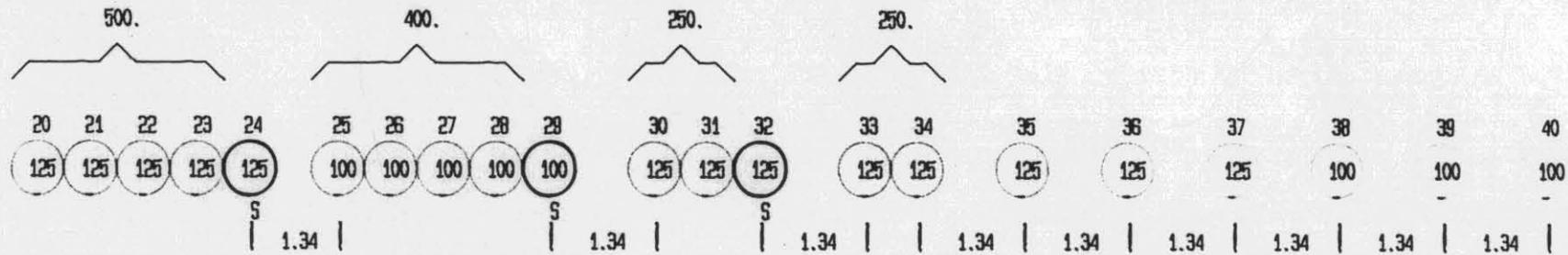


4075 CUBIC-INCH MOD II/III AIRGUN ARRAY

STARBOARD STRING (19 GUNS, 18.25 M)



PORT STRING (21 GUNS, 18.6 M)



NOTES-

1. GUN SIZE IN CUBIC INCHES
2. CENTRELINE TO CENTRELINE SPACING OF ALL COALESCED GUNS IS 0.545 METRES
3. SPARE GUNS DENOTED BY "S"
4. GUNS 1 - 10 ARE MOD III PC, GUNS 11 - 40 ARE MOD II PC
5. PREDICTED AVERAGE PERFORMANCE-
 $P_a=80$ BAR-M (P-P, 0-125 Hz)
 $P_a/P_b=10:$

ARRAY COMPOSITION

1 X 640	} 4075 ACTIVE	} 770 SPARE
1 X 500		
1 X 400		
1 X 320		
2 X 250		
2 X 200		
2 X 160		
3 X 125		
3 X 100		
4 X 80.		

231010

Ships Crew

Master	:	C. Grubba
Mate	:	G. Murray
Chief Engineer	:	B. Mardue
Second Engineer	:	J. Fleming
A.B. Seaman	:	M. Leavald
A.B. Seaman	:	J. Robinson
A.B. Seaman	:	S. Hynd.
Chief Steward	:	D. Draper
Second Steward	:	J. Bervling
Chief Cook	:	P. Boothe
Second Cook	:	G. Watson

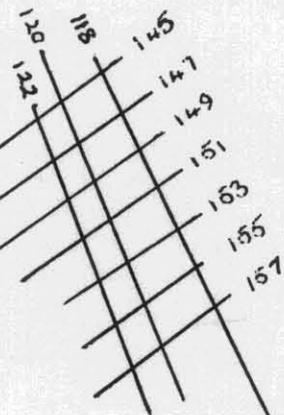
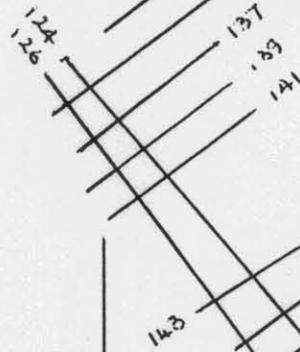
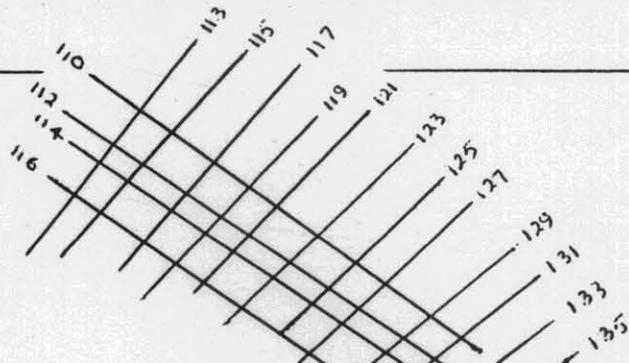
Seismic Personnel

Party Manager	:	R. Barrick
Systems Engineer	:	N. Blake
		R. Burgoyne
Systems Operations	:	M. Wilson
		D. Starling
		P. Blake
Systems Operator		
Trainees	:	T. Hartley
		D. Murray
		R. Hill
Compressor Engineer	:	K. Bakewell
Compressor Mechanics	:	T. Prentice
		J. Neuhousen
Airgun Mechanics	:	R. Taylor
		R. Cush
Surveyor	:	P. Young (Geomex)

SURVEY VESSEL - M.V. EUGENE MCDERMOTT II

231012

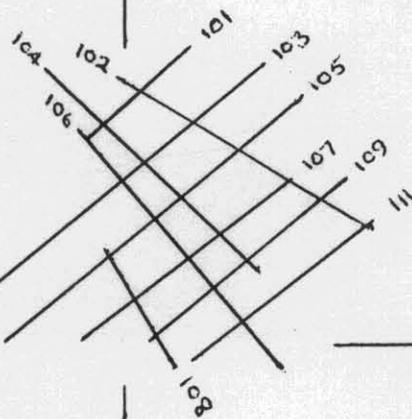
Flag : Republic of Panama
Homeport : Panama
Trade : Foreign-going
Owners : Geophysical Service Inc.
Call Sign : HO 9376 (Tlx HMC 1330706)
Length : 52.73 metres L.O.A.
Breadth : 12.19 metres L.O.A.
Depth : 4.27 metres
Draft : 3.05-3.24 metres
Official No : 7062-PEXT-1, 7685/77
Gross Tonnage : 911.66 Tonnes
Nett Tonnage : 244.21 Tonnes
Main Engines : 2 x 1125 HP (D399 Caterpillar)
Electrical Power : 2 x 250 KVA
Load Line : Lloyds Register



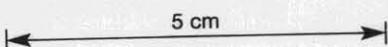
T-19-P EAST WING
1985 SURVEY

146° E

T-19-P WEST WING
1985 SURVEY



145° E



2. PRODUCTION LOG

<u>DATE</u>	<u>LINE</u>	<u>DIRECTION</u>	<u>SP RANGE</u>	<u>KILOMETRES</u>	<u>COMMENT</u>
18.11	BB85-102	122.4	1-488	14.640	Complete
18.11	BB85-104	314.9	1-558	16.740	Complete
18.11	BB85-106	135.8	1-559	16.770	Complete
18.11	BB85-108	315.9	1-279	8.370	Complete
18.11	BB85-101	048.9	1-259	7.770	Complete
18.11	BB85-103	229.7	1-100	3.000	Continuing
				DAILY TOTAL	67.290
19.11	BB85-103	229.7	101-750	19.500	Complete
19.11	BB85-105	049.6	1-629	18.870	Complete
19.11	BB85-107	230.4	1-459	13.770	Complete
19.11	BB85-109	049.8	1-418	12.540	Complete
19.11	BB85-111	230.4	1-389	11.670	Complete
19.11	BB85-113	039.9	1-498	14.940	Complete
19.11	BB85-115	219.8	1-489	14.670	Complete
19.11	BB85-117	041.5	1-489	14.670	Complete
19.11	BB85-119	222.7	1-100	3.000	Continuing
				DAILY TOTAL	123.630
				SURVEY TOTAL	190.920
20.11	BB85-119	222.7	101-459	10.770	Complete
20.11	BB85-121	045.1	1-489	14.670	Complete
20.11	BB85-123	225.6	1-459	13.770	Complete
20.11	BB85-125	048.1	1-399	11.970	Complete
20.11	BB85-127	228.8	1-439	13.170	Complete
20.11	BB85-129	050.0	1-478	14.340	Complete
20.11	BB85-131	231.6	1-509	15.270	Complete
20.11	BB85-133	052.3	1-548	16.440	Complete
20.11	BB85-135	233.5	1-659	19.770	Complete
20.11	BB85-137	052.7	1-339	10.170	Complete
				DAILY TOTAL	140.340
				SURVEY TOTAL	331.260
21.11	BB85-118	155.0	1-839	25.170	Complete
21.11	BB85-120	341.9	1-549	16.470	Complete
21.11	BB85-122	161.4	1-509	15.270	Complete
21.11	BB85-124	322.5	1-719	21.570	Complete
21.11	BB85-126	145.0	1-719	21.570	Complete
21.11	BB85-153	056.4	1-298	8.940	Complete
21.11	BB85-149	235.2	1-579	17.370	Complete
21.11	BB85-145	055.1	1-599	17.970	Complete
				DAILY TOTAL	144.330
				SURVEY TOTAL	475.590

<u>DATE</u>	<u>LINE</u>	<u>DIRECTION</u>	<u>SP RANGE</u>	<u>KILOMETRES</u>	<u>COMMENT</u>
22.11	BB85-114	304.6	1-1019	30.570	Complete
22.11	BB85-116	125.5	1-849	25.470	Complete
22.11	BB85-110	305.5	1-789	23.670	Complete
22.11	BB85-112	125.0	1-1208	36.240	Complete
22.11	BB85-139	233.6	1-339	10.170	Complete
22.11	BB85-141	053.3	1-328	9.840	Complete
22.11	BB85-143	236.6	1-389	11.670	Complete
22.11	BB85-147	055.9	1-599	17.970	Complete
			DAILY TOTAL	165.600	
			SURVEY TOTAL	641.190	
23.11	BB85-151	236.0	1-329	9.870	Complete
23.11	BB85-155	055.5	1-288	8.640	Complete
23.11	BB85-157	235.3	1-309	9.270	Complete
			DAILY TOTAL	27.780	
			SURVEY TOTAL	668.970	

231015

3. DAILY SUMMARY

231016

- November 17th, 1985 : Port call, then leave Devonport for survey. During transit check Argo baselines. Deploying streamer at end of day in shelter of King Island.
- November 18th, 1985 : Complete deployment of streamer and head out to survey. Standby for weather then begin production on lines 102, 104, 106, 108, 101 and 103.
- November 19th, 1985 : Production on lines 103, 105, 107, 109, 111, 113, 115, 117 and 119.
- November 20th, 1985 : Production on lines 119, 121, 123, 125, 127, 129, 131, 133, 135 and 137 then weather downtime.
- November 21st, 1985 : Weather downtime then production on lines 118 and 120. Further weather downtime then production on lines 122, 124, 126, 153, 149 and 145.
- November 22nd, 1985 : Production on lines 114, 116, 110, 112, 139, 141, 143 and 147.
- November 23rd, 1985 : Production on lines 151, 155 and 157. Recovery of source and streamer.

231017

4. DAILY TIME LOG

DAILY TIME LOG

231021

DATE WEDNESDAY 20 NOVEMBER

ACTIVITY	FROM - TO	HOURS
PRODUCTION LINE BB85-119	0000 - 0058	00.97
LINE CHANGE	0058 - 0148	00.83
PRODUCTION LINE BB85-121	0148 - 0310	01.37
LINE CHANGE	0310 - 0408	00.97
PRODUCTION LINE BB85-123	0408 - 0525	01.28
LINE CHANGE	0525 - 0616	00.85
PRODUCTION LINE BB85-125	0616 - 0722	01.10
LINE CHANGE	0722 - 0826	01.07
PRODUCTION LINE BB85-127	0826 - 0938	01.20
LINE CHANGE	0938 - 1043	01.08
PRODUCTION LINE BB85-129	1043 - 1158	01.25
LINE CHANGE	1158 - 1302	01.07
PRODUCTION LINE BB85-131	1302 - 1428	01.43
LINE CHANGE	1428 - 1536	01.13
PRODUCTION LINE BB85-133	1536 - 1705	01.48
LINE CHANGE	1705 - 1801	00.93
PRODUCTION LINE BB85-135	1801 - 1953	01.87
LINE CHANGE	1953 - 2058	01.08
PRODUCTION LINE BB85-137	2058 - 2154	00.93
LINE CHANGE	2154 - 2248	00.90
WEATHER DOWNTIME	2248 - 2400	01.20

TOTALS

PRODUCTION	12.88 HRS
LINE CHANGE	9.91 HRS
WEATHER DOWNTIME	1.20 HRS

P. Chief *P. Barrick*
 O.C. *S. Santa*

5. STATISTICAL ANALYSIS OF PROJECT TIME

231025

ACTIVITY		HOURS	%
Production		61.50	40.73
Line Change		40.62	26.90
Travel Time	*	26.35	17.45
Port Call	*	5.23	3.46
Streamer Deployment/Retrieval	*	6.81	4.51
Streamer Repairs	*	1.83	1.21
Weather Standby	*	2.85	1.89
Weather Downtime		4.11	2.72
Downtime avoiding fishing vessel		0.33	0.22
		TOTALS 151.00	100.00

Prior to the first production shotpoint some 36.57 hours were used to check Argo calibrations, travel to the western portion of the survey and deploy the streamer. Further delays were incurred during these phases of the operation by bad weather and a streamer failure. The first of these necessitated laying the streamer in the shelter of King Island. Thus the majority of the times indicated by * were prior to the first chargeable production. This of course improves the apparent efficiency of the whole operation and if the analysis above were to reflect the time from the first chargeable shotpoint the Production time as a percentage would increase to 53.74%.

6. CLIENT CHARGEABLE TIME

231026

DATE	ACTIVITY	FROM-TO	HOURS
19.11.85	Avoiding fishing vessel	2323-2343	00.33
20.11.85	Weather downtime, travelling to new line heading	2248-2400	01.20
21.11.85	Weather downtime, travelling to new line heading	0000-0126	01.43
21.11	Weather downtime, travelling to new line heading	0743-0912	01.48

		TOTAL	4.44 Hrs

As no contract was available to the author the above figures are based on normal contractual conditions i.e. any chargeable time will accumulate after the first chargeable shotpoint has occurred.

If this is not the case, there was a period of some 2.85 hours of time spent standing by for weather prior to the first shotpoint. Further details are shown on the daily time logs for the 17th and 18th of November in this report.

Upon departing Devonport the appropriate navigation system checks were executed. All readings showed acceptable positioning on the Argo system but because of weather and equipment failures the Syledis performance was poor. Because of the prevailing poor sea conditions the survey vessel sought some lee from King Island before streamer deployment was started. Unfortunately this resulted in whole lane count loss on the Argo system but was unavoidable. After the time taken for streamer deployment and repairs the vessel headed for the West wing of the survey with the apparently correct Argo whole lane count inserted on all stations. After a further delay for weather, the survey began with production on line 102. Production continued until lines 101 to 109 and 111 were complete and the vessel travelled to the east wing of the survey. There production started on line 113 and continued with a minor standby for a fishing vessel until the evening of the 20th when after line 135 it was discovered and fully proven that all work prior to that time had been acquired with whole lane errors in Sorrell, Northpoint and Liptrap (see daily log). After consultation with the client by telephone it was agreed that because of the excellent recoverability of the positioning data that the acquired data would be accepted and the lane count corrected for the remainder of the job. Production resumed with line 137 and then further weather downtime was experienced on the 20th and 21st. Production after this continued uninterrupted until the survey was complete.

Consideration of the various subsystems performances shows that the worst aspect of the survey was the Argo lane count error incurred at the start of the survey. The reasons for this problem are multiple and include the poor weather, poor Syledis performance and poor operator performance. However, it can only be re-emphasised that the data is fully recoverable in post processing. In all other respects the positioning performance was good and would be expected by this author to provide better results than the previous survey in this block.

The GSI digital streamer showed a fairly typical performance in the very slow and tedious deployment procedures, but once deployed and operating, the streamer performed well. It should be emphasised that the hardware of the streamer system does not appear too resilient to handling, and the majority of faults are normally on initial deployment.

All other subsystems, source recording instruments etc all performed well with no downtime attributable to any hardware other than the streamer.

In light of the experiences on this and the previous survey it is this author's opinion that a combination of the GSI positioning systems and the Western streamer would be a good combination from an operational point of view. Final seismic data quality is expected to be good with only minor degradation occurring during those periods of slightly noisy sea conditions.

Because of the use of the Argo on another survey in the same area, immediately prior to this no calibration procedures were necessary.

231028

8. DAILY DIARY

SUNDAY 17TH NOVEMBER, 1985

231029

0510 Departed Devonport for survey area and baseline crossings.
0711 Begin crossing of Point Sorrell/North Point baseline.
0731 Crossing completed and baseline observed 116214 m. c.f. computed length of 116214.27 m. Heading for next baseline.
0746 Begin crossing of Point Sorell/Naracoopa baseline.
0803 Crossing completed and baseline observed 243102.7m, computed length 243097.08m. Heading for next baseline.
1151 Begin crossing of North Point/Liptrap baseline.
1223 Crossing completed and baseline observed 21670m. c.f. computed length of 210667.56m. Heading for next baseline.
1330 Deployed source to check array depths.
1843 Begin crossing of Naracoopa/Liptrap baseline.
1857 Crossing completed and baseline observed 194183m. c.f. computed 194167m. Heading for shelter of King Island for shelter in which to start deploying streamer.
2110 Start to lay streamer.
2225 Streamer fully deployed and configured to 192 traces with 200m offset approx.
2300 Starting to recover streamer to do additional balancing.

MONDAY 18TH NOVEMBER, 1985

0217 Streamer deployed after further work and riding at 9 m. +/- 1m. Heading out to survey to begin on line BB85-106.
0330 SEM 12 showing parity errors turning fair seas to recover streamer and replace unit.
0356 Start retrieving streamer.
0440 Replaced SEM 12.
0520 Streamer redeployed, still heading for line 106.
0943 Aborted runin to line 106 because of excessive streamer noise.
1115 Aborted runin to line 101 for excessive streamer noise.
1234 Start of line BB85-102
First Production Shotpoint/File 1/1
Direction 122.4°
Water Depth 69 m.
Array Volume/Pressure 4075/1900
Streamer Depth/Noise/Feather 9.6/3-5/3°N
Navigation Argo
Using Stations Sorell/N. Point/Naracoopa
CEP 6m.
SP 314-321 NDRs because of TSR transport failure.
SP 338 gun 16 off, airleak volume 3995 cu.in.
1351 End of line
Last Production Shotpoint/File 488/482
Water Depth 70 m.
Array Volume/Pressure 3995/1900
Streamer Depth/Noise/Feather 9.8/3-5/1°N
Navigation CEP 4m.
COMMENT Trace 2 polarity reversed on reproduce.

1509	Start of line BB85-104	
	First Production Shotpoint/File	1/1
	Direction	314.9°
	Water Depth	70m.
	Array Volume/Pressure	4075/1900
	Streamer Depth/Noise/Feather	10/3-5/4°E
	Navigation	Argo
	Using Stations	Sorell/N.Point/Naracoopa
	CEP	3m.
	SP 118 gun 19 off, poor timing, volume 3995 cu.in.	
	SP 334 gun 19 on, volume 4075 cu.in.	
	SP 453 gun 19 off, airleak, volume 3995 cu.in.	
1637	End of line	
	Last Production Shotpoint/File	558/558
	Water Depth	58m.
	Array Volume/Pressure	3995/1900
	Streamer Depth/Noise/Feather	10/3-5/2°E
	Navigation CEP	6m
	COMMENT	Trace 2 polarity reversed in reproduce.
1737	Start of line BB85-106	
	First Production Shotpoint/File	1/1
	Direction	135.8°
	Water Depth	69m.
	Array Volume/Pressure	3875/1900
	Streamer Depth/Noise/Feather	10/3-5/1°W
	Navigation	Argo
	Using Stations	Sorell/N. Point/Naracoopa
	CEP	5m.
	Gun 15 failed on runin then 14 turned off to remove cluster.	
1913	End of line	
	Last Production Shotpoint/File	559/559
	Water Depth	69m.
	Array Volume/Pressure	3875/1900
	Streamer Depth/Noise/Feather	9.8/2-4/4°W
	Navigation CEP	2m.
	COMMENT	Trace 2 polarity reversed in reproduce.
1959	Start of line BB85-108	
	First Production Shotpoint/File	1/1
	Direction	68m.
	Array Volume/Pressure	4075/1900
	Streamer Depth/Noise/Feather	10/2-4/1°W
	Navigation	Argo
	Using Stations	Sorell/N. Point/Naracoopa
	CEP	1m.
2045	End of line	
	Last Production Shotpoint/File	279/279
	Water Depth	68m.
	Array Volume/Pressure	3995/1900
	Streamer Depth/Noise/Feather	10/3-4/5°W

	Navigation CEP	5m.
	COMMENT	Trace 2 polarity reversed in reproduce. SP 233 gun 16 off, airleak.
2146	Start of line BB85-101	
	First Production Shotpoint/File	1/1
	Direction	48.9°
	Water Depth	68m.
	Array Volume/Pressure	9.7/2-4/4°N
	Streamer Depth/Noise/Feather	9.7/2-4/4°N
	Navigation	Argo
	Using Stations	N. Point/Naracoopa only.
	CEP	N/A.
	Argo signal from Sorell too noisy.	
2230	End of line.	
	Last Production Shotpoint/File	259/259
	Water Depth	69m.
	Array Volume/Pressure	4075/1900
	Streamer Depth/Noise/Feather	9.5/2-4/0°
	Navigation CEP	N/A
	COMMENT	Trace 2 polarity reversed in reproduce. Trace 108 spiking occasionally.
2345	Start of line BB85-103	
	First Production Shotpoint/File	1/1
	Direction	229.7°
	Water Depth	68m.
	Array Volume/Pressure	4075/1900
	Streamer Depth/Noise/Feather	9.8/3-5/3°N
	Navigation	Argo
	Using Stations	Sorell/N. Point/Naracoopa
	CEP	5m.
2400	Last SP of the day 100.	

TUESDAY 19TH NOVEMBER, 1985

	SP 381 gun 33 off, airleak, 34 off also. Volume 3825 cu.in.	
	SP 432-438 NDRs because of TSR transport failures.	
0150	End of line	
	Last Production Shotpoint/File	750/744
	Water Depth	63m.
	Array Volume/Pressure	3825/1900
	Streamer Depth/Noise/Feather	9.5/3-7/1°S
	Navigation CEP	N/A Sorell out at SP 26, noisy
	COMMENT	Trace 2 polarity reversed in reproduce.
0240	Start of line BB85-105	
	First Production Shotpoint/File	1/1
	Direction	49.6°
	Water Depth	66m.
	Array Volume/Pressure	4075/1900
	Streamer Depth/Noise/Feather	9.5/3-6/2°S
	Navigation	Argo
	Using Stations	Sorell/N. Point/Naracoopa

	CEP	6m.
	SP 26 gun 33 off, airleak, 34 off also. Volume 3825 cu.in.	
0418	End of line.	
	Last Production Shotpoint/File	629/629
	Water Depth	70m.
	Array Volume/Pressure	3825/1900
	Streamer Depth/Noise/Feather	9.7/4-7/2 ^o S
	Navigation CEP	8m.
	COMMENT	Trace 2 polarity reversed in reproduce. Trace 108 spiking. Slight swell bursts throughout.
0510	Start of line BB85-107	
	First Production Shotpoint/File	1/1
	Direction	230.4 ^o
	Water Depth	71m.
	Array Volume/Pressure	4075/1900
	Streamer Depth/Noise/Feather	10/3-6/2 ^o N
	Navigation	Argo
	Using Stations	N. Point/Naracoopa
	CEP	N/A Sorell too noisy.
0629	End of line	
	Last Production Shotpoint/File	459/459
	Water Depth	69m
	Array Volume/Pressure	4075/1900
	Streamer Depth/Noise/Feather	9.5/3-6/2 ^o N
	Navigation CEP	N/A
	COMMENT	Trace 2 polarity reversed in reproduce. Trace 108 spiking.
0715	Start of line BB85-109	
	First Production Shotpoint/File	1/1
	Direction	49.8 ^o
	Water Depth	69m.
	Array Volume/Pressure	4075/1900
	Streamer Depth/Noise/Feather	10/3-6/5 ^o N
	Navigation	Argo
	Using Stations	Sorell/N. Point/Naracoopa
	CEP	3m.
0825	End of line.	
	Last Production Shotpoint/File	418/418
	Water Depth	70m.
	Array Volume/Pressure	4075/1900
	Streamer Depth/Noise/Feather	9.8/3-6/3 ^o N
	Navigation CEP	4m.
	COMMENT	Trace 2 polarity reversed in reproduce.
0924	Start of line BB85-111	
	First Production Shotpoint/File	1/1
	Direction	230.4 ^o
	Water Depth	69m.
	Array Volume/Pressure	4075/1900
	Streamer Depth/Noise/Feather	9.8/3-6/4 ^o N
	Navigation	Argo
	Using Stations	Sorell/N. Point/Naracoopa
	CEP	4m.

1028	End of line. Last Production Shotpoint/File Water Depth Array Volume/Pressure Streamer Depth/Noise/Feather Navigation CEP COMMENT	389/389 67m. 4075/1900 9.8/3-5/3 ⁰ N 4m. Trace 2 polarity reversed in reproduce. Trace 108 noisy.
1640	Start of line BB85-113 First Production Shotpoint/File Direction Water Depth Array Volume/Pressure Streamer Depth/Noise/Feather Navigation Using Stations CEP	1/1 39.9 ⁰ 77m. 4075/1900 9.4/2-6/1 ⁰ S Argo Sorell/N. Point/Naracoopa 6m.
1800	End of line. Last Production Shotpoint/File Water Depth Array Volume/Pressure Streamer Depth/Noise/Feather Navigation CEP COMMENT	498/498 78m. 4075/1900 9.7/3-6/0 ⁰ 7m. Trace 2 polarity reversed in reproduce.
1905	Start of line BB85-115 First Production Shotpoint/File Direction Water Depth Array Volume/Pressure Streamer Depth/Noise/Feather Navigation Using Stations CEP	1/1 219.8 ⁰ 77m. 4075/1900 9.5/3-5/2 ⁰ N Argo Sorell/N. Point/Naracoppa 6m
2024	End of line Last Production Shotpoint/File Water Depth Array Volume/Pressure Streamer Depth/Noise/Feather Navigation CEP COMMENT	489/489 78m. 4075/1900 9.8/3-6/3 ⁰ N 6m. Trace 2 polarity reversed in reproduce.
2118	Start of line BB85-117 First Production Shotpoint/File Direction Water Depth Array Volume/Pressure Streamer Depth/Noise/Feather Navigation Using Stations CEP	1/1 41.5 ⁰ 75m. 4075/1900 10/2-6/5 ⁰ N Argo Sorell/N. Point/Naracoopa 6m.
2238	End of line. Last Production Shotpoint/File Water Depth	489/489 76m.

	Array Volume/Pressure	4075/1900
	Streamer Depth/Noise/Feather	9.5/2-5/3 ^o N
	Navigation CEP	6m.
	COMMENT	Trace 2 polarity reversed in reproduce.
2323	Line change extended for fishing vessel obstructing runin.	
2343	Start of line BB85-119	
	First Production Shotpoint/File	1/1
	Direction	222.7 ^o
	Water Depth	77m.
	Array Volume/Pressure	4075/1900
	Streamer Depth/Noise/Feather	9.5/2-5/4 ^o N
	Navigation	Argo
	Using Stations	Sorell/N. Point/Naracoopa
	CEP	7m.
2400	Last SP of the day 100.	

WEDNESDAY 20TH NOVEMBER, 1985

0058	End of line	
	Last Production Shotpoint/File	459/459
	Water Depth	76m.
	Array Volume/Pressure	4075/1900
	Streamer Depth/Noise/Feather	9.7/3-5/3 ^o N
	Navigation CEP	4m.
	COMMENT	Trace 2 polarity reversed reproduce.
0146	North Point replaced by Liptrap in 3 way fixing.	
0148	Start of line BB85-121	
	First Production Shotpoint/File	1/1
	Direction	45.1 ^o
	Water Depth	75.6m.
	Array Volume/Pressure	4075/1900
	Streamer Depth/Noise/Feather	9.8/3-6/2 ^o N
	Navigation	Argo
	Using Stations	Sorell/Naracoopa/Liptrap
	CEP	3m.
	SP 71 gun 7 off, airleak, gun 8 on.	
0310	End of line.	
	Last Production Shotpoint/File	489/489
	Water Depth	78m.
	Array Volume/Pressure	4075/1900
	Streamer Depth/Noise/Feather	9.5/3-6/1 ^o S
	Navigation CEP	2m.
	Comment	Trace 2 polarity reversed in reproduce.
0408	Start of line BB85-123	
	First Production Shotpoint/File	1/1
	Direction	225.6 ^o
	Water Depth	78m.
	Array Volume/Pressure	4075/1900
	Streamer Depth/Noise/Feather	9.8/2-5/1 ^o N
	Navigation	Argo
	Using Stations	Sorell/Naracoopa/Liptrap

231035

0616	CEP	3m.
	Start of line BB85-125	
	First Production Shotpoint/File	1/1
	Direction	48.1°
	Water Depth	80.3m.
	Array Volume/Pressure	4075/1900
	Streamer Depth/Noise/Feather	9.5/3-6/0°
	Navigation	Argo
	Using Stations	Sorell/Naracoopa/Liptrap
	CEP	3m.
0722	End of line	
	Last Production Shotpoint/File	399/399
	Water Depth	80m.
	Array Volume/Pressure	4075/1900
	Streamer Depth/Noise/Feather	9.5/N/A/1°N
	Navigation CEP	2m.
	COMMENT	Trace 2 polarity reversed in reproduce. TSR failure at EOL prevented noise strip.
0826	Start of line BB85-127	
	First Production shotpoint/File	1/1
	Direction	228.8°
	Water Depth	80m.
	Array Volume/Pressure	4075/1900
	Streamer Depth/Noise/Feather	9.5/3-6/1°N
	Navigation	Argo
	Using Stations	Sorell/Naracoopa/Liptrap
	CEP	2m.
0938	End of line	
	Last Production Shotpoint/File	439/439
	Water Depth	80m.
	Array Volume/Pressure	4075/1900
	Streamer Depth/Noise/Feather	9/3-6/1°N
	Navigation CEP	1m.
	COMMENT	Trace 2 polarity reversed in reproduce. Trace 133 spiking.
1043	Start of line BB85-129	
	First Production Shotpoint/File	1/1
	Direction	50°
	Water Depth	78.7m.
	Array Volume/Pressure	4075/1900
	Streamer Depth/Noise/Feather	9/2-5/0°
	Navigation	Argo
	Using Stations	Sorell/N. Point/Naracoopa
	CEP	8m.
	SP 351 gun 19 off, airleak. Volume	3995 cu.in.
1158	End of line.	
	Last Production Shotpoint/File	478/478
	Water Depth	80m.
	Array Volume/Pressure	3995/1900
	Streamer Depth/Noise/Feather	9.3/2-5/0°
	Navigation CEP	6m.
	COMMENT	Trace 2 polarity reversed in reproduce. Trace 133 spiking.

231036

1302	Start of line BB85-131	
	First Production Shotpoint/File	1/1
	Direction	231.6°
	Water Depth	79m.
	Array Volume/Pressure	4075/1900
	Streamer Depth/Noise/Feather	9.5/2-5/3°N
	Navigation	Argo
	Using Stations	Sorell/N. Point/Naracoopa
	CEP	7m.
	SP 464 gun 40 off, airleak. Volume	3975 cu.in.
1428	End of line.	
	Last Production Shotpoint/File	509/509
	Water Depth	79m.
	Array Volume/Pressure	3975/1900
	Streamer Depth/Noise/Feather	9.5/3-6/1°N
	Navigation CEP	7m.
	COMMENT	Trace 2 polarity reversed in reproduce. Trace 133 spiking.
1536	Start of line BB85-133	
	First Production Shotpoint/File	1/1
	Direction	52.3°
	Water Depth	79m.
	Array Volume/Pressure	4075/1900
	Streamer Depth/Noise/Feather	9.5/2-6/2°N
	Navigation	Argo
	Using Stations	Sorell/N. Point/Naracoopa
	CEP	7m.
1705	End of line	
	Last Production Shotpoint/File	548/548
	Water Depth	80m.
	Array Volume/Pressure	4075/1900
	Streamer Depth/Noise/Feather	9.5/3-7/1°N
	Navigation CEP	9m.
	COMMENT	Trace 2 polarity reversed in reproduce. Traces 133 and 47 spiking occasionally.
1801	Start of line BB85-135	
	First Production Shotpoint/File	1/1
	Direction	233.5°
	Water Depth	81m.
	Array Volume/Pressure	4075/1900
	Streamer Depth/Noise/Feather	9.3/3-7/4°N
	Navigation	Argo
	Using Stations	Sorell/N. Point/Naracoopa
	CEP	5m.
	SP 500 gun 40 off, airleak. Volume	3975 cu.in.
19.53	End of line	
	Last Production Shotpoint/File	659/659
	Water Depth	81m.
	Array Volume/Pressure	3975/1900
	Streamer Depth/Noise/Feather	9.3/3-8/4°N
	Navigation CEP	6m.
	COMMENT	Trace 2 polarity reversed in reproduce. Trace 133 bad.

40 2 1 2 1

During the last few hours it has become obvious that the Argo system lane count is incorrect. This has been verified by the acquisition of Syledis ranges and verification of the calibration of the replacement beacons on Liptrap and Diamond M. Epoch. Sorell and North Point are 1 lane high and Liptrap 1 lane low. As from this time this will be corrected and all future lines will be shot in correct locations. All lines previous will be approx. 88m north of preplotted positions resulting in offline errors of 62m approx.

2031 Naracoopa Argo station off the air. Station found to be detuned.

2058 Start of line BB85-137

First Production Shotpoint/File	1/1
Direction	52.7°
Water Depth	81m.
Array Volume/Pressure	4075/1900
Streamer Depth/Noise/Feather	9/3-7/4°N Some swell noise.
Navigation	Argo
Using Stations	Sorell/N. Point
CEP	N/A Naracoopa still retuning.

2100 Naracoopa signal good.

2105 SP 48 Naracoopa included in 3 way fix, CEP 0 m.

2154 End of line.

Last production Shotpoint/File	339/339
Water Depth	79m.
Array Volume/Pressure	4075/1900
Streamer Depth/Noise/Feather	9.5/3-8/2°N
Navigation CEP	2m.
COMMENT	Trace 2 polarity reversed in reproduce. Trace 133 spiking.

2248 Line 139 terminated on runin because of streamer noise.

2354 Line 116 terminated on runin because of streamer noise.

THURSDAY 21ST NOVEMBER, 1985

0126 Start of line BB85-118

First Production Shotpoint/File	1/1
Direction	155°
Water Depth	80m.
Array Volume/Pressure	4075/1900
Streamer Depth/Noise/Feather	10/3-8/0°
Navigation	Argo
Using Stations	Sorell/N.Point/Naracoopa
CEP	1m.

SP 46 gun 17 off, timing. Volume 3995 cu.in.
 SP 504 TSR idle caused SP 505 and 506 to retain file no. 504.
 SPs 507-511 NDRs then FGSP 512 again with file no. 504.

0347 End of line

Last Production Shotpoint/File	839/831
Water Depth	80m.
Array Volume/Pressure	3995/1900
Streamer Depth/Noise/Feather	9.8/3-8/1°W
Navigation CEP	2m.
COMMENT	Trace 2 polarity reversed in reproduce. Trace 133 spiking.

0502 Start of line BB85-120

231038

	First Production Shotpoint/File	1/1
	Direction	341.9°
	Water Depth	82m.
	Array Volume/Pressure	4075/1900
	Streamer Depth/Noise/Feather	9.7/4-7/0°
	Navigation	Argo
	Using Stations	Sorell/N. Point/Naracoopa
	CEP	0m.
0637	End of line	
	Last Production Shotpoint/File	549/549
	Water Depth	82m.
	Array Volume/Pressure	4075/1900
	Streamer Depth/Noise/Feather	9.5/4-7/0°
	Navigation CEP	2m.
	COMMENT	Trace 2 polarity reversed in reproduce. Traces 133 and 24 spiking. Trace 108 noisy from SP 401 to EOL.
0743	Line 116 terminated on runin because of cable noise.	
0912	Start of line BB85-122	
	First Production Shotpoint/File	1/1
	Direction	161.4°
	Water Depth	80.7m.
	Array Volume/Pressure	4075/1900
	Streamer Depth/Noise/Feather	9.8/4-10/1°E
	Navigation	Argo
	Using Stations	Sorell/N. Point/Naracoopa
	CEP	0 m.
	SP gun 23 off, O.C. solenoid. 24 on. SP 124.	
	SP 201 gun 22 off, 29 on.	
	SP 215 guns 20,21, and 24 off, 500 cu.in. cluster down, gun 29 off volume 3575 cu.in.	
	SP 286 gun 7 off, airleak. Gun 8 on.	
1040	End of line	
	Last Production shotpoint/File	509/509
	Water Depth	80m.
	Array Volume/Pressure	3575/1900
	Streamer Depth/Noise/Feather	9.5/3-8/0°
	Navigation	0m.
	COMMENT	Trace 2 polarity reversed in reproduce. Traces 133 and 121 spiking and noisy respectively.
1144	Start of line BB85-124	
	First Production Shotpoint/File	1/1
	Direction	322.5°
	Water Depth	80m.
	Array Volume/Pressure	4075/1900
	Streamer Depth/Noise/Feather	9.8/3-7/2°E
	Navigation	Argo
	Using Stations	Sorell/N. Point/Naracoopa
	CEP	1m.
	SP 78 gun 7 off, airleak, gun 8 on.	
1337	End of line.	
	Last Production Shotpoint/File	719/719

	Water Depth	79m.
	Array Volume/Pressure	4075/1900
	Streamer Depth/Noise/Feather	10/3-7/1 ⁰ E
	Navigation CEP	Om.
	COMMENT	Trace 2 polarity reversed in reproduce. Trae 133 spiking.
1438	Start of line BB85-126	
	First Production Shotpoint/File	1/1
	Direction	145 ⁰
	Water Depth	79m.
	Array Volume/Pressure	4075/1900
	Streamer Depth/Noise/Feather	9.5/3-7/0 ⁰
	Navigation	Argo
	Using Stations	Sorell/N. Point/Naracoopa
	CEP	Om.
	COMMENT	Trace 2 polarity reversed in reproduce. Trace 133 spiking.
1638	End of line	
	Last Production Shotpoint/File	719/719
	Water Depth	81m.
	Array Volume/Pressure	3915/1900
	Streamer Depth/Noise/Feather	10/3-7/5 ⁰ W
	Navigation CEP	Om.
	COMMENT	Trace 2 polarity reversed in reproduce. Trace 133 spiking.
1722	Start of line BB85-153	
	First Production Shotpoint/File	1/1
	Direction	56.4 ⁰
	Water Depth	81m.
	Array Volume/Pressure	4075/1900
	Streamer Depth/Noise/Feather	9.8/3-8/2 ⁰ S
	Navigation	Argo
	Using Stations	Sorell/N. Point/Naracoopa
	CEP	2m.
1816	End of line	
	Last Production Shotpoint/File	298/298
	Water Depth	82m.
	Array Volume/Pressure	4075/1900
	Streamer Depth/Noise/Feather	9.8/3-7/2 ⁰ S
	Navigation CEP	6m.
	COMMENT	Trace 2 polarity reversed in reproduce. Trace 133 spiking.
1922	Start of line BB85-149	
	First Production Shotpoint/File	1/1
	Direction	235.2 ⁰
	Water Depth	82m.
	Array Volume/Pressure	4075/1900
	Streamer Depth/Noise/Feather	10/3-6/2 ⁰ S
	Navigation	Argo
	Using Stations	Sorell/N. Point/Naracoopa
	CEP	1m.
2054	End of line	
	Last Production Shotpoint/File	579/579
	Water Depth	82m.

	Array Volume/Pressure	4075/1900
	Streamer Depth/Noise/Feather	9.8/3-7/1 ^o N
	Navigation CEP	Om.
	COMMENT	Trace 2 polarity reversed in reproduce. Trace 133 spiking.
2200	Start of line BB85-145	
	First Production Shotpoint/File	1/1
	Direction	55.1m.
	Water Depth	81m.
	Array Volume/Pressure	4075/1900
	Streamer Depth/Noise/Feather	9.8/3-7/1 ^o N
	Navigation	Argo
	Using Stations	Sorell/N. Point/Naracoopa
	CEP	1m.
2343	End of line.	
	Last Production Shotpoint/File	599/599
	Water Depth	80m.
	Array Volume/Pressure	4075/1900
	Streamer Depth/Noise/Feather	9.8/3-6/1 ^o N
	Navigation CEP	1m.
	COMMENT	Trace 2 polarity reversed in reproduce. Trace 133 spiking.

FRIDAY 22ND NOVEMBER, 1985

0041	Start of line BB85-114	
	First Production Shotpoint/File	1/1
	Direction	304.6 ^o
	Water Depth	79m.
	Array Volume/Pressure	4075/1900
	Streamer Depth/Noise/Feather	10/3-6/2 ^o N
	Navigation	Argo
	Using Stations	Sorell/N. Point/Naracoopa
	CEP	Om.
0332	End of line	
	Last Production Shotpoint/File	1019/1019
	Water Depth	75.8m.
	Array Volume/Pressure	4075/1900
	Streamer Depth/Noise/Feather	9.7/3-6/0 ^o
	Navigation CEP	Om.
	COMMENT	Trace 2 polarity reversed in reproduce. Trace 133 spiking. SP 340 gun 2 off, airleak, 5 on
0432	Start of line BB85-116	
	First Production Shotpoint/File	1/1
	Direction	125.5 ^o
	Water Depth	76m.
	Array Volume/Pressure	4075/1900
	Streamer Depth/Noise/Feather	9.8/3-6/0 ^o
	Navigation	Sorell/N. Point/Naracoopa
	CEP	1m.
0702	End of line.	
	Last Production Shotpoint/File	849/849
	Water Depth	80m.

231041

	Array Volume/Pressure	4075/1900
	Streamer Depth/Noise/Feather	9.5/3-6/2°S
	Navigation CEP	Om.
	COMMENT	Trace 2 polarity reversed in reproduce. Trace 133 spiking. Trace 108 spiking also.
0801	Start of line BB85-110	
	First Production Shotpoint/File	1/1
	Direction	305.5°
	Water Depth	80m
	Array Volume/Pressure	4075/1900
	Streamer Depth/Noise/Feather	9.5/3-7/4°S
	Navigation CEP	Argo
	Using Stations	Sorell/N. Point/Naracoopa
	CEP	Om.
1005	End of line	
	Last Production Shotpoint/File	789/789
	Array Volume/pressure	4075/1900
	Streamer Depth/Noise/Feather	9.5/3-7/1°S
	Navigation CEP	1m.
	COMMENT	Trace 2 polarity reversed in reproduce. Trace 133 spiking.
1108	Start of line BB85-112	
	First Production Shotpoint/File	1/1
	Direction	124.5°
	Water Depth	77m.
	Array Volume/Pressur	4075/1900
	Streamer Depth/Noise/Feather	9.7/3-6/0°
	Navigation	Argo
	Using Stations	Sorell/N. Point/Naracoopa
	CEP	0 m.
1434	End of line	
	Last Production Shotpoint/File	1208/208
	Water Depth	80m.
	Array Volume/Pressure	4075/1900
	Streamer Depth/Noise/Feather	9.6/2-6/2°S
	Navigation CEP	Om.
	COMMENT	Trace 2 polarity reversed in reproduce. Trace 133 spiking.
1558	Start of line BB85-139	
	First Production Shotpoint/File	1/1
	Direction	233.6°
	Water Depth	79m.
	Array Volume/Pressure	4075/1900
	Streamer Depth/Noise/Feather	9.5/3-6/0°
	Navigation	Argo
	Using Stations	Sorell/N. Point/Naracoopa
	CEP	0 m.
	SP 172-178 NDRs because of tape transport failure.	
1651	End of line	
	Last Production Shotpoint/File	339/332
	Water Depth	80m.
	Array Volume/Pressure	4075/1900
	Streamer Depth/Noise/Feather	9.5/3-6/0°

	COMMENT	Trace 2 polarity reversed in reproduce. Trace 133 spiking.
1747	Start of line BB85-141	
	First Production Shotpoint/File	1/1
	Direction	53.3°
	Water Depth	80m.
	Array Volume/Pressure	4075/1900
	Streamer Depth/Noise/Feather	9.6/2-6/2°N
	Navigation	Argo
	Using Stations	Sorell/N. Point/Naracoopa
	CEP	1m
	SP 303 gun 30 off, poor timing, gun 32 on.	
1840	End of line.	
	Last Production Shotpoint/File	328/328
	Water Depth	80m.
	Array Volume/Pressure	4075/1900
	Streamer Depth/Noise/Feather	9.7/2-6/0°
	Navigation CEP	0m.
	COMMENT	Trace 2 polarity reversed in reproduce. Trace 133 spiking.
2002	Start of line BB85-143	
	First Production Shotpoint/File	1/1
	Direction	236.6°
	Water Depth	81m.
	Array Volume/Pressure	4075/1900
	Streamer Depth/Noise/Feather	9.8/2-6/5°N
	Navigation	Argo
	Using Stations	Sorell/N. Point/Naracoopa.
	CEP	1m.
2104	End of line	
	Last Production Shotpoint/File	389/389
	Water Depth	81m.
	Array Volume/Pressure	4075/1900
	Streamer Depth/Noise/Feather	9.8/2-6/5°N
	Navigation CEP	1m.
	COMMENT	Trace 2 polarity reversed in reproduce. Trace 133 spiking.
2209	Start of line BB85-147	
	First Production Shotpoint/File	1/1
	Direction	55.9°
	Water Depth	81m.
	Array Volume/Pressure	4075/1900
	Streamer Depth/Noise/Feather	9.6/2-6/6°N
	Navigation	Argo
	Using Stations	Sorell/N. Point/Naracoopa
	CEP	3m.
2347	End of line	
	Last Production Shotpoint/File	599/599
	Water Depth	80m.
	Array Volume/Pressure	4075/1900
	Streamer Depth/Noise/Feather	9.7/2-6/4°N
	Navigation CEP	3m.
	COMMENT	Trace 2 polarity reversed in reproduce. Trace 133 spiking.

0046	Start of line BB85-151	
	First Production Shotpoint/File	1/1
	Direction	236 ^o
	Water Depth	80m
	Array Volume/Pressure	4075/1900
	Streamer Depth/Noise/Feather	9.8/3-6/7 ^o N
	Navigation	Argo
	Using Stations	Sorell/N. Point/Naracoopa
	CEP	1m.
0140	End of line.	
	Last Production Shotpoint/File	329/329
	Water Depth	80m.
	Array Volume/Pressure	4075/1900
	Streamer Depth/Noise/Feather	9.7/3-6/4 ^o N
	Navigation CEP	0m.
	COMMENT	Trace 2 polarity reversed in reproduce. Trace 133 spiking.
0244	Start of line BB85-155	
	First Production Shotpoint/File	1/1
	Direction	55.5 ^o
	Water Depth	80m.
	Array Volume/Pressure	4075/1900
	Streamer Depth/Noise/Feather	9.7/3-6/3 ^o N
	Navigation	Argo
	Using Stations	Sorell/N. Point/Naracoopa
	CEP	1m.
0333	End of line	
	Last Production Shotpoint/File	288/288
	Water Depth	80m.
	Array Volume/Pressure	4075/1900
	Streamer Depth/Noise/Feather	9.7/3-6/1 ^o N
	Navigation CEP	1m.
	COMMENT	Trace 2 polarity reversed in reproduce. Trace 133 spiking.
	SP 37 Interference from Diamond M. Epoch 2.5 seconds into record.	
0431	Start of line BB85-157	
	First Production Shotpoint/File	1/1
	Direction	235.3 ^o
	Water Depth	80m.
	Array Volume/Pressure	4075/1900
	Streamer Depth/Noise/Feather	9.7/2-6/4 ^o N
	Navigation	Argo
	Using Stations	Sorell/N. Point/Naracoopa
	CEP	1m.
0519	End of line.	
	Last Production Shotpoint/File	309/309
	Water Depth	81m.
	Array Volume/Pressure	4075/1900
	Streamer Depth/Noise/Feather	9.8/2-6/1 ^o N
	Navigation CEP	1m.
	COMMENT	Trace 2 polarity reversed in reproduce. Trace 133 spiking.

Tail of cable 10.8 at EOL.

231044

0555 Recovered source and starting to recover streamer.
0700 Streamer onboard, survey completed.

231045

APPENDICES

A. PRODUCTION REPORT TELEXES

231046

COMSAT USA 18624 11/17 2144Z
HDMC 1330706

GA+
007126518+

BRIOIL AA26518
HDMC 1330706

TO : BRIDGE OIL
ATTN: WES JAMIESON
 : KEITH SKIPPER
 : ANATOLY LUSKIN
FROM: FRANK RENTON - EUGENE MCDERMOTT

REF : TLX/EM/01

FROM - TO	COMMENTS
0000-0514	ALONGSIDE IN DEVONPORT
0514-1857	TRAVEL TO SURVEY AREA DOING NAVIGATION BASELINE CHECKS ON THE WAY.
1857-2110	HEADING FOR SHELTERED WATER NEAR KING ISLAND IN ORDER TO WORK ON STREAMER
2110-2400	DEPLOYING, CONFIGURING & BALLASTING STREAMER

REMARKS : FROM THE END CO-ORDINATES RECEIVED FROM GSI TOTAL SUB-SURFACE COVERAGE IS 607.5 KMS WHICH WILL YIELD APPROX. 668 KMS OF CHARGEABLE SURFACE COVERAGE. PLEASE NOTIFY VIA GSI IF ANY DISCREPANCIES. PRESENTLY HEADING FOR LINE BB85-106

REGARDS FRANK RENTON

HDMC 1330706

BRIOIL AA26518
HDMC 1330706

.....
11/17/85 2147Z 002.8 MIN

EDM DAY321,0847Z

TELEX MESSAGE TELEX MESSAGE

MESSAGE

MESSAGE TELEX MESSAGE

TELEX MESS

231047

TELEX MESSAGE TELEX A

AGE TELEX MESSAGE

EE
COMSAT USA 14735 11/18 2131Z
HDMC 1330706

GA+
007126518+

BRIOIL AA26518
HDMC 1330706

TO : BRIDGE OIL
ATTN: WES JAMIESON
 : KEITH SKIPPER
 : ANATOLY LUSKIN
FROM: FRANK RENTON - EUGENE MCDERMOTT

REF : TLX/EM/02

PRODUCTION FOR 18TH NOVEMBER 1985

LINE	DIR	SP. RANGE	TOT SPS	CHG SPS	CHG KMS	COMMENTS
BB85-102	122	0001-0488	488	488	14.640	COMPLETE
BB85-104	315	0001-0558	558	558	16.740	COMPLETE
BB85-106	136	0001-0559	559	559	16.770	COMPLETE
BB85-108	316	0001-0279	279	279	8.370	COMPLETE
BB85-101	049	0001-0259	259	259	7.770	COMPLETE
BB85-103	230	0001-0100	100	100	3.000	MIDNIGHT

DAILY TOTALS 2243 67.290 KMS

HRS	ACTIVITY
6.100	RECORDING
5.334	LINE CHANGE
6.038	TRAVEL TO FIRST LINE OF PROSPECT
2.850	WEATHER DOWNTIME
1.400	SEM #12 REPLACED DUE TO SYNC PROBLEMS
2.283	COMPLETING BALLAST OF STREAMER

COMMENTS :- AS OF THIS TIME THE FOLLOWING LINES ARE ALSO COMPLETE
BB85-103,105,107 & 109. AT PRESENT ON LINE CHANGE.

REGARDS FRANK RENTON - EUGENE MCDERMOTT

BRIOIL AA26518
HDMC 1330706

.....
11/18/85 2136Z 003.8 MIN

EDM DAY322,0836Z

TELEX MESSAGE TELEX

AGE TELEX MESSAGE

231049

TELEX MESSAGE TELEX MESSAGE

MESSAGE TELEX MESSAGE

COMSAT USA 18034 11/20 2140Z
HOMC 1330706

GA+
007126518+

BRIOIL AA26518
HOMC 1330706

:Beginnings of Information:

TO : BRIDGE OIL
ATTN: WES JAMIESON
 : KEITH SKIPPER
 : ANATOLY LUSKIN
FROM: FRANK RENTON - EUGENE MCDERMOTT

REF : TLX/EM/04

PRODUCTION FOR 20TH NOVEMBER 1985

LINE	DIR	SP. RANGE	TOT SPS	CHG SPS	CHG KMS	COMMENTS
BB85-119	223	0101-0459	359	359	10.770	COMPLETE
BB85-121	045	0001-0489	489	489	14.670	COMPLETE
BB85-123	226	0001-0459	459	459	13.770	COMPLETE
BB85-125	048	0001-0399	399	399	11.970	COMPLETE
BB85-127	229	0001-0439	439	439	13.170	COMPLETE
BB85-129	050	0001-0478	478	478	14.340	COMPLETE
BB85-131	232	0001-0509	509	509	15.270	COMPLETE
BB85-133	052	0001-0548	548	548	16.440	COMPLETE
BB85-135	234	0001-0659	659	659	19.770	COMPLETE
BB85-137	053	0001-0339	339	339	10.170	COMPLETE

DAILY TOTALS 4678 140.340 KMS

PROSPECT TOTAL TO DATE : 331.260 KMS

HRS	ACTIVITY
12.884	RECORDING
9.916	LINE CHANGE
1.200	WEATHER DOWNTIME

COMMENTS: WEATHER DOWNTIME LASTED UNTIL 01:26 THIS MORNING WHEN
PRODUCTION WAS RESUMED WITH LINE BB85-118 AND THEN 120.
FURTHER WEATHER DOWNTIME AS OF THIS TIME.

REGARDS, FRANK RENTON

HOMC 1330706

BRIOIL AA26518.....
11/20/85 2145Z 004.4 MIN

EOM DAY324.0846Z

231050

EE
COMSAT USA 28424 11/21 2117Z
HOMC 1330706

GA+
007126518+

BRIOIL AA26518
HOMC 1330706

TO : BRIDGE OIL
ATTN: WES JAMIESON
 : KEITH SKIPPER
 : ANATOLY LUSKIN
FROM: FRANK RENTON - EUGENE MCDERMOTT

REF : TLX/EM/05

PRODUCTION FOR 21ST NOVEMBER 1985

LINE	DIR	SP. RANGE	TOT SPS	CHG SPS	CHG KMS	COMMENTS
BB85-118	155	0001-0839	839	839	25.170	COMPLETE
BB85-120	342	0001-0549	549	549	16.470	COMPLETE
BB85-122	161	0001-0509	509	509	15.270	COMPLETE
BB85-124	323	0001-0719	719	719	21.570	COMPLETE
BB85-126	145	0001-0719	719	719	21.570	COMPLETE
BB85-153	056	0001-0298	298	298	8.940	COMPLETE
BB85-149	235	0001-0579	579	579	17.370	COMPLETE
BB85-145	055	0001-0599	599	599	19.970	COMPLETE

DAILY TOTALS 4811 144.330 KMS

PROSPECT TOTAL TO DATE : 475.590 KMS

HRS.	ACTIVITY
13.433	RECORDING
7.650	LINE CHANGE
2.917	WEATHER DOWNTIME

COMMENTS: LINES BB85-114 & 115 NOW COMPLETE. PRESENTLY ON LINE 110.

REGARDS, FRANK RENTON

CORRECTION LINE 116 COMPLETE. 115 PREVIOUSLY SHOT.

BRIOIL AA26518
HOMC 1330706

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11/21/85 2122Z 004.3 MIN

EDM DAY325,0822Z

TELEX MESSAGE TELETYPE MESSAGE TELETYPE MESSAGE TELETYPE MESSAGE

TELEX MESSAGE TELETYPE MESSAGE TELETYPE MESSAGE TELETYPE MESSAGE

TELEX
H
COMSAT USA 21079 11/22 2116Z
HOMC 1330706

231051

GA+
007126518+

BRIOIL AA26518
HOMC 1330706

TO : BRIDGE OIL
ATTN: WES JAMIESON
 : KEITH SKIPPER
 : ANATOLY LUSKIN
FROM: FRANK RENTON - EUGENE MCDERMOTT

REF : TLX/EM/06

PRODUCTION FOR 22ND NOVEMBER 1985

LINE	DIR	SP. RANGE	TOT SPS	CHG SPS	CHG KMS	COMMENTS
BB85-114	305	0001-1019	1019	1019	30.570	COMPLETE
BB85-116	126	0001-0849	849	849	25.470	COMPLETE
BB85-110	306	0001-0789	789	789	23.670	COMPLETE
BB85-112	125	0001-1208	1208	1208	36.240	COMPLETE
BB85-139	234	0001-0339	339	339	10.170	COMPLETE
BB85-141	053	0001-0328	328	328	9.840	COMPLETE
BB85-143	237	0001-0389	389	389	11.670	COMPLETE
BB85-147	056	0001-0599	599	599	17.970	COMPLETE

DAILY TOTALS 5520 165.600 KMS

PROSPECT TOTAL TO DATE : 641.190 KMS

HRS ACTIVITY
15.283 RECORDING
8.717 LINE CHANGE

PRODUCTION REPORT FOR 23RD NOVEMBER 1985

LINE	DIR	SP. RANGE	TOT SPS	CHG SPS	CHG KMS	COMMENTS
BB85-151	236	0001-0329	329	329	9.870	COMPLETE
BB85-155	056	0001-0288	288	288	8.640	COMPLETE
BB85-157	235	0001-0509	309	309	9.270	COMPLETE

DAILY TOTALS 926 27.780 KMS

PROSPECT TOTAL : 668.970 KMS

HRS ACTIVITY
2.516 RECORDING
2.801 LINE CHANGE
0.600 TRAVEL FAIR SEAS TO RETRIEVE STREAMER
1.083 RETRIEVE STREAMER

COMMENTS : SURVEY COMPLETED AT 07:00 HRS SATURDAY 23RD NOVEMBER.

REGARDS, FRANK RENTON

BRIOIL AA26518
HOMC 1330706

.....
11/22/85 2122Z 005.2 MIN