

022001



DATA PROCESSING  
FINAL REPORT,  
GIPPSLAND BASIN, - G74A

for

ESSO AUSTRALIA LIMITED  
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by

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T A B L E   O F   C O N T E N T S

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SECTION I

INTRODUCTION

A Seismic Reflection Survey was conducted by the M.V. "Eugene McDermott II" in the Gippsland Basin between 9th December, 1974 and 10th January, 1975.

Approximately 2938 Kms. of 48-fold reflection coverage were shot utilising a 48 trace, 2400 meter streamer under continuous tow. Further, a "mini" streamer (150 meter) was concurrently employed over the entire prospect to record 3-fold, 6 trace shallow reflection data. A tuned array of airguns (1200 cubic inches) was the acoustic energy source. Field Operations and Survey Reports are under separate covers.

Data enhancement using Pre, Velocity, and Post 700 Package Digital Processing was carried out in the Sydney Office of G.S.I.



SECTION II

PRODUCTION PROCESSING

SEQUENCE - A

(48-fold, 4 second processing with a 2ms. sample rate performed on the Gippsland Basin 2400 meter data).

Pre-Processing :

1. True Amplitude Recovery.
2. Edit.
3. Static Corrections for field multiplexing errors.
4. Pre-deconvolution Ramp Scaling.
5. Deconvolution.
6. Time Variant Scaling.
7. Common Depth Point (CDP) Gather.
8. Annotation.

Velocity Analysis :

Static Corrections Applied.

Full 700 Package Velocity Analysis.



Velocity Verification :

Normal Moveout Correction on selected CDP Records.

Post-Processing :

9. Trace Editing.
10. Normal Moveout Correction.
11. Shot and Seismometer Static Correction.
12. Air gun Delay Correction.
13. Common Depth Point Stack.
14. Time Variant Deconvolution.
15. Time Variant Digital Filtering.
16. Time Variant Scaling.
17. Plotter Displays.



SECTION II

PRODUCTION PROCESSING

SEQUENCE - B (Main Cable)

(48-fold, 5 second processing performed on the Gippsland Basin 2400 meter data).

Pre-Processing :

1. True Amplitude Recovery.
2. Resample and Antialias Filtering.
3. Edit.
4. Static Corrections for field multiplexing errors.
5. Pre-deconvolution Ramp Scaling.
6. Deconvolution.
7. Time Variant Scaling.
8. Common Depth Point (CDP) Gather.
9. Annotation.

Velocity Analysis :

Static Corrections Applied.

Full 700 Package Velocity Analysis.



Velocity Verification :

Normal Moveout Correction on Selected CDP Records.

Post-Processing :

10. Trace Editing.
11. Normal Moveout Correction.
12. Shot and Seismometer Static Correction.
13. Air gun Delay Correction.
14. Common Depth Point Stack.
15. Time Variant Deconvolution.
16. Time Variant Digital Filtering.
17. Time Variant Scaling.
18. Plotter Displays.



SEQUENCE - C (Mini Cable)

(3-fold, 3 second processing with a 2ms. sample rate performed on the Gippsland Basin 150 meter data).

Pre-Processing :

1. Common Depth Point (CDP) Gather.
2. True Amplitude Recovery.
3. Edit.
4. Pre-deconvolution Ramp Scaling.
5. Deconvolution.
6. Time Variant Scaling.
7. Annotation.

Velocity Analysis :

None - Stacking function supplied by Esso.



Post-Processing :

8. Trace Editing.
9. Normal Moveout Correction.
10. Shot and Seismometer Static Correction.
11. Air gun Delay Correction.
12. Common Depth Point Stack.
13. 2/1 Adjacent Depth Point Mix.
14. Time Variant Deconvolution.
15. Time Variant Digital Filtering.
16. Time Variant Scaling.
17. Plotter Displays.

SECTION IIIPROCESSING DETAILSPre-Processing Module :True Amplitude Recovery (TAR)

The TAR process is applied to digital field records in order to produce output records on which relative amplitudes of reflections on each trace are approximately true and traces evenly modulated. This consists of removing the gain imposed on the field record by the DFS III Binary Gain Control System and correcting for inelastic attenuation and spherical divergence losses.

These may be expressed as -

$$S.D. = 20 \log \bar{V}.T$$

where S.D. = relative spherical divergence correction.  
 $\bar{V}$  is nominally set at 1000 feet/sec., since the correction is quite insensitive to velocity variations.

T is the reflection travel time.

$$I.A. = B + \infty T$$

where I.A. = exponential gain rate which corrects the attenuation of reflection energy, remaining after the spherical divergence correction is applied.



B = constant gain factor (set to give adequate modulation on the record).

$\alpha$  = exponential gain rate.

T = reflection time.

For the G74A Survey the constant gain factor, B, was -18db.

The exponential gain rate,  $\alpha$  was 5.0db/sec., applied from 0 to 3.75 seconds for main cable and from 0 to 3.0 for mini cable.

#### Resample and Antialias Filtering

All of the G74A data except two lines (see Section IV) was recorded in the field at a 2 millisecond sample rate. Apart from the TAR process, most of the main cable (see Section IV) was subsequently processed with a 4 millisecond sample period. An antialias filter was applied to reject frequencies greater than the fold-over frequency (125 Hz.) of the 4 millisecond sample.

All mini cable data was processed at the field sample rate.



### Edit

Edit at this stage does not refer to selected trace edit, but rather a record edit based on field Q.C. Reports and Daily Logs. Consequently, records known to contain autofires or excessively high parity counts were deleted from the processing.

### Static Corrections for Field Multiplexing Errors.

Static corrections of field multiplexing delays, shifts the traces to compensate for the difference in time of recording each individual trace.

Note that these corrections were not applied to the mini cable data.

### Pre-deconvolution Ramp Scaling

A ramp scaling designed to suppress direct arrival energy. This is to prevent the high amplitude direct arrivals from being "blown-up" when the deconvolution operator is applied.

### Deconvolution

Deconvolution is accomplished by the application of one or more filters designed from data trace autocorrelation functions. Types of deconvolution used were -



- 1) 2nd Zero crossing TVD - a multiple operator, non-whitening deconvolution designed from and applied to each trace in a series of overlapping gates. This has a gap equal to the second zero crossing on the auto-correlation function.
- 2) 2nd Zero crossing Time Invariant Deconvolution - a single operator, gapped non-whitening deconvolution.

In deeper water areas of the prospect, deconvolution was replaced by the Dewater process, a technique employed to attenuate simple coherent multiples generated from a deep water bottom and to attenuate peg-leg multiples generated from a primary reflector and the deep water bottom.

The deconvolution parameters used on a particular line were a function of water depth, offset, and consequent available design gate. Deconvolution operators were not normalised.

See Section IV for a line by line breakdown of types of deconvolution employed.



### Time Varying Scaling (TVS)

TVS affects amplitude equalisation between traces as a function of record time. The number of gates for which amplitude scalers are computed can be specified depending upon the geophysical problems and requirements. The scalers computed for each gate are applied to data at the center of their gate, and scale factors for intermediate data are computed by linear interpolation of consecutive scalers. One thousand millisecond gates were used.

### Common Depth Point (CDP) Gather

All data output from the pre-processing stage is in a CDP format. Effectively, this means that each group of N traces (where N = fold) on these 24 trace output records is common to the same depth point. Within one depth point however, each trace represents a different offset location.

### Annotation

The water depth and the offset to each trace in the gather is annotated in channel 25 for use in further processing.



Velocity Analysis :

- A. As processing of the mini cable data was basically independent of main cable processing, stacked sections of the mini streamer data were used as an interpretative aid when analysing main cable scattergrams. During the initial stages of the processing however, some near trace gather sections were generated to supplement the velocity analysis. These sections were deconvolved, scaled, unfiltered and presented on paper.
- B. The entire G74A Survey was processed through Full 700 Package Velocity Analysis, utilising alternate depth points. Note, that in this description of 700 Package parameters, depth point numbering refers to actual number of depth points processed. Thus, in reference to actual section scale, these numbers represent half the number of real depth points.
1. Program 04-700-2 reads every other CDP gather and performs the following :
    - o Time Variant Filtering.
    - o Equalisation.
    - o Moveout and dip scan building.
    - o Interpretation of moveout/dip scans to detect valid events with time, amplitude, moveout and dip information.



- o Output to magnetic tape the Event files for each space/time gate.
- o Extension of the Event files in each time gate to produce the Work file.
- o Output of Work files on magnetic tape.

At this stage the program takes all time gates and outputs Summary and Consolidated Files in the following manner.

- o Hookup of segments between time gates to allow continuous segments across time gates.
- o Output of Summary Files.
- o Consolidation of Summary Files into continuous segments with time, amplitude and moveout at every depth point.
- o Output of the Consolidated Segment File on magnetic tape to be submitted for display or analysis routines.



2. Program 04-701 - Velocity Analysis Module - provides statistical displays of velocity as a function of time over the entire space and also over specified space gates (12 processed depth points). The RMS velocities are computed from the segment times and moveouts averaged over each space gate and plotted as a coded symbol for each segment. The symbols are coded according to segment length within each space gate or according to the relative length over all the Summary Files as follows :

<u>Symbol</u>	<u>Length</u>
+	≥ 24 depth points
▽	< 24, ≥ 12 depth points
.	< 12, ≥ 3 depth points
N	Nth longest segment in the file (up to 50).

As well, the relative amplitude indication of the largest segment within a 100 msec. gate is shown by circling the rank or grading symbol.



The G74A scattergrams had the center CDP record of the space gate plotted alongside the velocity versus time plot. This record was moveout corrected with the velocity annotated on the scattergram. Moveout curves were also superimposed over the scattergram.

The inputs to this module are the Summary Files and the outputs are a series of CRT frames plus a listing. The CRT frames consist of scattergrams and  $V^2T$  overlays (time versus (velocity)<sup>2</sup>. time plots). The latter have segment lengths annotated according to the same criteria as the scattergrams but are a measure of interval velocities.

All CRT frames are enlarged to a vertical scale of 1 second = 3.75 inches and a horizontal scale of 1,000 ft./sec. = 1.5 inches.

3. Program 04-602 - Segment Sort and Display - displays the Consolidated File in a fashion suitable for section overlay. Various sorting and annotation techniques are available to aid in the interpretation of the File. The following were selected for this project.



- a. Primary File, peaks and troughs, all segments length  $\geq$  18 depth points, not velocity sorted, annotated with segment number.
- b. Primary File, peaks and troughs, all segments length  $\geq$  18 depth points, velocity sorted, annotated with RMS velocity.
- c. Primary File, peaks and troughs, all segments length  $\geq$  9 depth points, velocity sorted, annotated with segment number.

Input to program 04-602 was the Consolidated File and output was on CRT frame. These frames were enlarged to a horizontal scale of 36 traces/inch and a vertical scale of 3.75 inches/second.

4. After generation of the above outputs, the velocity analysis sequence proceeded along the following steps -
  - a) Scattergrams were interpreted by Esso.
  - b) These initial functions were 'terminalised' and written out on one-inch magnetic tape.
  - c) The functions were applied to selected CDP gather records to represent the line.



- d) Final interpretation of scattergrams using selected CDP gather record display for residual moveout correction.
- e) "Re-terminalise" the functions and output on both 1" and  $\frac{1}{2}$ " tape. The  $\frac{1}{2}$ " tape being an Esso purchase tape.



Velocity Verification :

After initial velocity interpretation, the center CDP gather record from the odds system for each scattergram had that velocity applied to it. This section was referred to as "Selected CDP with Moveout".

Any refinement to produce a final set of velocities was made using this section.



## Post-Processing :

### Trace Editing

At this stage of processing those traces edited were from the CDP gather records. The principal sources of this edit were the near trace stack and initial single-fold sections derived during pre-processing.

### Normal Moveout Correction

All velocity functions were submitted as 'water surface' functions. A linear interpolation was performed between the velocity functions which were applied at the points indicated on the final sections.

### Shot and Seismometer Static Correction

A static correction to compensate for the depth of air gun array and streamer below sea level, generally in the order of 14 milliseconds. This is a positive correction which effectively increases reflection time.

### Air Gun Delay Correction

This delay is the time lag between the firing commands and the actual gun pulse and was determined to be 14 milliseconds. Effectively then, reflections will be 14 milliseconds shallower after application of this correction.



### Common Depth Point Stack

Common Depth Point Stack was performed with a square root scaler being utilised. Thus scaling response can be expressed equal to -

$$\frac{\sum N}{T_c} \left( \sqrt{\frac{T_c}{F}} \right)$$

where  $\sum N$  = sum of amplitudes of traces contributing to the stack.

$T_c$  = number of traces contributing to the stack.

$F$  = normal multiplicity of the data (48).

Therefore, when full fold (48) is contributing to the data the term  $\sqrt{\frac{T_c}{F}}$  reduces to unity and the resultant scaling response is identical to a unity stack scaler,  $\frac{\sum N}{T_c}$ .

First break suppression ramps were derived from the selected CDP with normal moveout.

The stacked records were output on magnetic tapes which were purchased by Esso.



## Mini Cable

### 2/1 Adjacent Depth Point Mix

Coincident data words of two depth points are summed (mixed) to produce one output depth point. The output horizontal scale is identical to the Main Cable Sequence, that is 25 meter depth point interval.



### Time Variant Deconvolution

A Time Variant Deconvolution was performed on all the data after CDP stack. The TVD operators were not normalised.

### Time Variant Digital Filtering

The filters applied to each area of the G74A data are listed in Section IV.

Where appropriate on deep water lines, the filter was applied so that it followed the water bottom. The TVF filters were normalised in all cases.

### Time Variant Scaling (TVS)

TVS affects amplitude equalisation between traces as a function of record time. The number of time gates for which amplitude scalars are computed can be specified depending upon the geophysical problems and requirements. The scalars computed for each gate are applied to data at the center of their gate and scale factors for intermediate data are computed by linear interpolation of consecutive scalars. Five hundred millisecond gates were used.



### Plotter Displays

All final sections were plotted with a horizontal scale of 36 traces/inch and a vertical scale of 3.75 inches/second.

Five final film sections were presented to Esso for each line.

- 1) The CDP stacked records for both main and mini cable processing were plotted in the Variable area mode with 30% bias and normal polarity (positive values black).
- 2) The CDP stacked, Time Variant deconvolved records for the main cable were plotted in the Variable area mode with 30% bias and normal polarity.
- 3) The CDP stacked, Time Variant deconvolved, Time Variant filtered, scaled records for the mini cable were plotted in the Variable area mode with 30% bias and normal polarity.
- 4) The CDP stacked, Time Variant deconvolved, Time Variant filtered, scaled records for the main cable were plotted in the Variable density mode with 100% bias and polarity reversal.



## SECTION IV

### PROCESSING VARIATIONS

#### Recording Sample Period

All of the G74A data was recorded in the field at a 2 millisecond sample rate except two lines, G74A-1032 and G74A-1034, which were recorded with a 4 millisecond sample rate.

#### Processing Sample Period

The first 14 lines shot were processed both Main and Mini Cable with a 2 millisecond sample rate. The remainder of the prospect was resampled to 4 milliseconds for the Main cable, but the Mini cable processed with a 2 millisecond sample rate.

#### Polarity

The polarity of the Mini Cable recording for the first 21 lines was recorded reverse to the rest of the Survey, that is the first breaks up.



For the first lines processed, the polarity was not altered, so the gather tapes have reverse polarity.

The following is a list of recorded polarities and polarities on tape for the lines in question -

<u>Line</u>	<u>Recorded Polarity</u>	<u>Polarity on Gather Tape</u>
1047	Reverse	Reverse
1048	"	"
1049	"	"
1050	"	"
1051	"	"
1052	"	"
1053	"	"
1068	"	"
1071	"	"
1072	"	"
1073	"	"
1074	"	"
1075	"	"
1212	"	"
1100	"	Normal
1101	"	"
1102	"	"
1103	"	"
1104	"	"
1105	"	"
1106	"	"
1107 to end of Survey	Normal	Normal



Time Variant Digital Filtering :

Mini Cable

The following is a list of G74A lines and the T.V.F. applied to each -

	<u>LINE</u>	<u>FILTER</u>	
		<u>Frequency</u>	<u>Time</u>
G74A	1001 - 1046,	40-140 Hz	100 ms.
	1054 - 1067,	25-130 Hz	500 ms.
	1069 - 1070,	20-100 Hz	1000 ms.
	1082,	15- 70 Hz	1500 ms.
	1084 - 1119,	15- 50 Hz	3000 ms.
	1121 - 1122,		
	1124 - 1211, 1213 - 1243		
G74A	1047 - 1053,	40-130 Hz	250 ms.
	1068,	30-120 Hz	750 ms.
	1071 - 1075,	20-100 Hz	1250 ms.
	1212	15- 70 Hz	2000 ms.
		15- 60 Hz	3000 ms.
G74A	1076 - 1081,	40-130 Hz	100 ms.
	1083,	30-130 Hz	500 ms.
	1120,	25- 80 Hz	900 ms.
	1123	15- 60 Hz	2000 ms.
		15- 50 Hz	3000 ms.



## Main Cable

The following is a list of G74A lines and the Time Variant Digital Filters applied to each :

<u>LINE</u>		<u>FILTER</u>	
		<u>Frequency</u>	<u>Time</u>
G74A	1001 - 1019	30-120 Hz	400 ms.
		20-100 Hz	800 ms.
		15- 80 Hz	1800 ms.
		10- 60 Hz	3000 ms.
		10- 40 Hz	5000 ms.
G74A	1020 - 1030	20-120 Hz	400 ms.
		18-100 Hz	1000 ms.
		15- 80 Hz	1800 ms.
		10- 60 Hz	3000 ms.
		10- 40 Hz	5000 ms.
G74A	1031 - 1046, 1054 - 1067, 1069 - 1070	30-120 Hz	400 ms.
		20-120 Hz	1000 ms.
		15- 80 Hz	2000 ms.
		10- 60 Hz	3500 ms.
		10- 40 Hz	5000 ms.
G74A	1047 - 1053, 1068, 1071 - 1075, 1212	20-130 Hz	250 ms.
		18-120 Hz	750 ms.
		15-100 Hz	1250 ms.
		10- 70 Hz	2000 ms.
		10- 60 Hz	3500 ms.
		10- 50 Hz	4000 ms.



<u>LINE</u>	<u>FILTER</u>	
	<u>Frequency</u>	<u>Time</u>
G74A	1076 - 1085,	30-120 Hz 400 ms.
	1086 (East End),	20-100 Hz 1000 ms.
	1087,	15- 70 Hz 1800 ms.
	1088 - 1091 (East Ends),	10- 50 Hz 3000 ms.
	1096,	10- 40 Hz 5000 ms.
	1112 - 1118,	
	1119 (North End),	
	1120 - 1121,	
	1122 (North End),	
	1123,	
	1124 (North End),	
	1135,	
	1209	
G74A	1086 (West End),	30-120 Hz 400 ms.
	1088 - 1091 (West End),	20-100 Hz 1000 ms.
	1092 - 1095,	15- 80 Hz 1800 ms.
	1097 (West End),	10- 60 Hz 2500 ms.
	1107 - 1111,	10- 40 Hz 5000 ms.
	1136 - 1150	
G74A	1097 (East End),	20-120 Hz 400 ms.
	1098 - 1106,	18-100 Hz 1200 ms.
	1119 (South End),	15- 70 Hz 2000 ms.
	1122 (South End),	10- 50 Hz 3000 ms.
	1124 (South End),	10- 40 Hz 5000 ms.
	1125 - 1134,	
	1213	



	<u>LINE</u>	<u>FILTER</u>	
		<u>Frequency</u>	<u>Time</u>
G74A	1151 - 1187, 1188 (West End), 1210 - 1211, 1214 - 1222	20-120 Hz	200 ms.
		17-100 Hz	700 ms.
		15- 80 Hz	1000 ms.
		10- 60 Hz	2000 ms.
		10- 50 Hz	3000 ms.
		10- 40 Hz	5000 ms.
G74A	1188, 1189 - 1208	30-120 Hz	400 ms.
		20-100 Hz	1000 ms.
		15- 70 Hz	1800 ms.
		10- 50 Hz	3000 ms.
		10- 40 Hz	5000 ms.
G74A	1223 - 1243	30-120 Hz	500 ms.
		20-100 Hz	1200 ms.
		15- 80 Hz	2000 ms.
		10- 60 Hz	3000 ms.
		10- 40 Hz	5000 ms.



### Deconvolution

The following is a list of lines versus types of deconvolution applied before Stack -

<u>LINE</u> G74A-	<u>MINI CABLE</u> Deconvolution Before Stack.	<u>MAIN CABLE</u> Deconvolution Before Stack.
1001 - 1038,	2nd Zero Crossing DCN*	2nd Zero Crossing TVD
1039 - 1043 (East of 1056),	Dewater	" " " "
1044 - 1053	2nd Zero Crossing DCN	" " " "
1054 - 1055,	Dewater	" " " "
1056 - 1222,	2nd Zero Crossing DCN	" " " "
1223,	2nd Zero Crossing DCN	Dewater
1224 - 1231,	Dewater	"
1232 - 1243	2nd Zero Crossing DCN	"

For further details of operator lengths and design gates, see side panels on Sections.

\* DCN - Time Invariant Deconvolution.



The following is a list of lines versus cable offsets -

CABLE OFFSETS FOR G74A SEISMIC SURVEY.

<u>Line No.</u>	<u>Configuration</u>	<u>Offset (Meters)</u>
1001	8 Stretch Sections (clamped)	315
1002	"	"
1003	"	"
1004	7 Stretch Sections (clamped)	276
1005	8 Stretch Sections (clamped)	315
1006	"	"
1007A	"	"
1008	"	"
1009	"	"
1010C	"	"
1011A	"	"
1012A	"	"
1013	"	"
1014	"	"
1015	"	"
1016	"	"
1017	"	"
1018	"	"
1019	"	"
1020	"	"
1021	"	"
1022	"	"
1023	"	"
1024	"	"
1025	"	"
1026	"	"
1027	"	"
1028	"	"
1029	"	"
1030	"	"



<u>Line No.</u>	<u>Configuration</u>	<u>Offset (Meters)</u>
1031	7 Stretch Sections (clamped)	276
1032	"	"
1033	"	"
1034	"	"
1035	"	"
1036	"	"
1037	"	"
1038	"	"
1039	8 Stretch Sections (clamped)	315
1040	"	"
1041	"	"
1042	"	"
1043	"	"
1044	"	"
1045	"	"
1046	"	"
1047	7 Stretch Sections (clamped)	276
1048	"	"
{ 1049	6 Stretch Sections + Lead in (off reel)	276
{ 1049A	7 Stretch Sections (clamped)	276
1050	"	"
1051	"	"
1052	6 Stretch Sections + Lead in (off reel)	276
1053	"	"
1054	7 Stretch Sections (clamped)	276
1055	"	"
1056	"	"
1057	"	"
1058	"	"
1059	"	"
1060	"	"



<u>Line No.</u>	<u>Configuration</u>	<u>Offset (Meters)</u>
1061A	7 Stretch Sections (clamped)	276
1062	"	"
1063	"	"
1064	"	"
1065	"	"
1066	"	"
1067	"	"
1068	"	"
1069B	"	"
1070	"	"
1071	6 Stretch Sections + Lead in (off reel)	276
1072	"	"
1073A	"	"
1074	"	"
1075	"	"
1076	7 Stretch Sections (clamped)	276
1077	"	"
1078	"	"
1079	"	"
1080	"	"
1081	"	"
1082	"	"
1083	"	"
1084	"	"
1085	"	"
1086	"	"
1087	"	"
{ 1088	"	"
{ 1088A	"	"
1089	"	"
1090	"	"



<u>Line No.</u>	<u>Configuration</u>	<u>Offset (Meters)</u>
1091	7 Stretch Sections (clamped)	276
1092	"	"
1093	"	"
{ 1094	"	"
{ 1094A	"	"
1095	"	"
1096	"	"
1097	"	"
1098	7 Stretch Sections + Portion (off reel)	292
1099	"	"
1100	7 Stretch Sections (clamped)	276
1101	"	"
1102	"	"
1103	"	"
1104	"	"
1105	"	"
1106	"	"
1107	"	"
1108	"	"
1109	"	"
1110	"	"
1111	"	"
1112	"	"
1113	"	"
1114A	"	"
1115	"	"
1116	"	"
1117	"	"
1118	"	"
1119	"	"
1120	"	"
1121	"	"



<u>Line No.</u>	<u>Configuration</u>	<u>Offset (Meters)</u>
1122	7 Stretch Sections (clamped)	276
1123	"	"
1124	"	"
1125	"	"
1126	7 Stretch Sections + Portion (off reel)	292
1127	7 Stretch Sections (clamped)	276
1128	"	"
1129	"	"
1130	"	"
1131	"	"
1132	"	"
1133	"	"
1134	"	"
1135	"	"
1136	"	"
1137	"	"
1138	"	"
1139	"	"
1140	"	"
1141	"	"
1142	8 Stretch Sections (clamped)	315
1143	"	"
1144	7 Stretch Sections (clamped)	276
1145	"	"
1146	8 Stretch Sections (clamped)	315
1147A	7 Stretch Sections (clamped)	276
1148	8 Stretch Sections (clamped)	315



<u>Line No.</u>	<u>Configuration</u>	<u>Offset (Meters)</u>
1149	7 Stretch Sections (clamped)	276
1150	"	"
1151	"	"
1152	"	"
1153	"	"
1154	"	"
1155	"	"
1156	"	"
1157	"	"
1158	"	"
1159	"	"
1160	"	"
1161	"	"
1162	"	"
1163	"	"
1164	"	"
1165	"	"
1166	"	"
1167	"	"
1168	"	"
1169	"	"
1170	"	"
1171	"	"
1172	"	"
1173	"	"
1174	"	"
1175	"	"
1176A	"	"
1177A	"	"
1178A	"	"
1179A	"	"
1180A	"	"



<u>Line No.</u>	<u>Configuration</u>	<u>Offset (Meters)</u>
1181	7 Stretch Sections (clamped)	276
1182	"	"
1183	"	"
1184	"	"
1185	"	"
1186A	"	"
1187	"	"
1188	"	"
1189	"	"
1190	"	"
1191	"	"
1192	"	"
1193	"	"
1194	"	"
1195	"	"
1196	"	"
1197	"	"
1198A	"	"
1199	"	"
1200	"	"
1201	"	"
1202	"	"
1203	"	"
1204	"	"
1205	"	"
1206	"	"
1207	"	"
1208	"	"
1209	"	"
1210	"	"
1211	"	"
1212	6 Stretch Sections + Lead in (off reel)	276
1213	7 Stretch Sections (clamped)	276



<u>Line No.</u>	<u>Configuration</u>	<u>Offset (Meters)</u>
1214	7 Stretch Sections (clamped)	276
1215	"	"
1216A	"	"
1217	"	"
1218	"	"
1219	"	"
1220	"	"
1221	"	"
1222	"	"
1223	8 Stretch Sections (clamped)	315
1224	"	"
{ 1225	"	"
{ 1225B	7 Stretch Sections (clamped)	276
1226	8 Stretch Sections (clamped)	315
1227A	7 Stretch Sections (clamped)	276
1228A	8 Stretch Sections (clamped)	315
1229A	"	"
1230	"	"
1231	7 Stretch Sections (clamped)	276
1232	"	"
1233	"	"
1234	8 Stretch Sections (clamped)	315
1235	"	"
{ 1236A	7 Stretch Sections (clamped)	276
{ 1236B	"	"
1237	"	"
1238	"	"
1239	"	"
1240	"	"
1241	"	"
1242	"	"
1243	"	"



SECTION V

COMMENTS / DISCUSSION

The initial processing of G74A Main Cable lines used a 2 millisecond sample rate. After comparison tests on lines G74A-1052 and G74A-1073 using a 4 millisecond sample rate, which showed no visible difference, the processing sample rate was changed to 4 milliseconds.

Considerable testing of deconvolution was performed on Main and Mini Cable lines, G74A-1052, 1073, 1077.

The deconvolution design gates for both Main and Mini Cables were varied throughout the prospect.

The side panels on all final sections give this processing information.

The length of the Time Variant Scaling Gates after Stack was altered from 1000 milliseconds to 500 milliseconds. All side panels indicate the applied gates.

Filter analyses were performed on both Main and Mini Cable for several locations. Tabulation of filters used appears in Section IV.

Good weather conditions and stringent quality control yielded excellent recorded data.

Optimum processing parameters plus the associated frequencies from the field recording, (field filter high cut 124 Hz) produced final sections with higher resolution than previous Gippsland Surveys.

APPENDIX A.PURCHASE TAPE LOG INDEX1. MAIN CABLE COMMON DEPTH POINT GATHER (CDP) TAPES

<u>Line G74A-</u>	<u>Tape Numbers</u>	
	<u>Odd System</u>	<u>Even System</u>
1001	9467 9468	9469 9470
1002	9377 9378	9379 9380
1003	9471 9472	9473 9474
1004	9475 9476	9477 9478
1005	9479	9480
1006	9481	9482
1007	9343	9344
1008	9483	9484
1009	9485 9486	9487 9488
1010	9489	9490
1011	9491 9492	9493 9494
1012	9495	9496
1013	9306 9311	9308 9312

Line G74A-Tape NumbersOdd SystemEven System

1014	9394	9396
	9399	9401
		9174
1015	9428	9430
	9404	9406
1016	9232	9234
1017	9298	9300
1018	9486	9488
1019	9556	9558
1020	9221	9224
	9162	9204
1021	9198	9200
	9236	9238
1022	9387	9388
1023	9302	9304
	9074	9076
1024	9434	9436
	9390	9392
1025	9337	9338
1026	9438	9440
	9458	9460
1027	9472	9474
	9343	9344
1028	9206	9208
	9216	9218
1029	9492	9494
1030	9528	9530
	9446	9448

Line G74A-Tape NumbersOdd SystemEven System

1031	9567	9568
1032	9559	9560
1033	9571	9572
1034	9573	9574
1035	9110	9112
	9114	9116
1036	9579	9580
1037	9240	9242
	9244	9246
1038	9124	9126
	9186	9188
1039	9501	9503
	9502	9504
1040	9505	9507
	9506	9508
1041	9381	9383
	9382	9384
1042	9509	9511
	9510	9512
1043	9513	9515
	9514	9516
1044	9555	9557
	9556	9558
1045	9559	9561
	0261	9562
1046	9563	9565
	9564	9566
1047	9027	9029
	9028	9030

Line G74A-Tape NumbersOdd SystemEven System

1048	9045	9048
	9046	9049
	9047	9050
1049	9037	9039
	9038	9040
1049A	9038	9040
	9059	9060
1050	9031	9034
	9032	9035
	9033	9036
1051	9013	9014
1052	9005	9007
	9006	9008
1053	9015	9017
	9016	9018
1054	9521	9522
1055	9523	9524
1056	9525	9526
1057	9527	9529
	9528	9530
1058	9531	9533
	9532	9534
1059	9535	9537
	9536	9538
1060	9539	9540
1061	9385	9386



<u>Line G74A-</u>	<u>Tape Numbers</u>	
	<u>Odd System</u>	<u>Even System</u>
1062	9541	9543
	9542	9544
1063	9575	9577
	9576	9578
	9194	9202
1064	9545	9547
	9546	9548
1065	9581	9582
	9583	9584
1066	9320	9322
1067	9549	9550
1068	9009	9011
	9010	9012
1069	9180	9182
	9164	9166
1070	9250	9252
	9268	9270
1071	9019	9021
	9022	9022
1072	9023	9025
	9024	9026
1073	9001	9003
	9002	9004
1074	9041	9043
	9042	9044
1075	9051	9053
	9052	9054

Line G74A-Tape NumbersOdd SystemEven System

1076	9131	9132
1077	9129	9130
1078	9127	9128
1079	9121	9122
1080	9123	9125
	9124	9126
1081	9119	9120
1082	9117	9118
1083	9113	9115
	9114	9116
1084	9239	9241
	9240	9242
1085	9235	9237
	9236	9238
1086	9259	9263
	9260	9264
	9261	9265
	9262	9266
1087	9167	9169
	9168	9170
1088	9161	9203
	9162	9204
1088A	9219	9222
	9220	9223
	9221	9224
1089	9155	9158
	9156	9159
	9157	9160

Line G74A-Tape NumbersOdd SystemEven System

1090	9141	9144
	9142	9145
	9143	9146
1091	9097	9099
	9098	9100
1092	9517	9519
	9518	9520
1093	9215	9217
	9216	9218
1094	9213	9214
1094A	9209	9210
1095	9163	9165
	9164	9166
1096	9211	9212
1097	9205	9207
	9206	9208
1098	9417	9418
1099	9419	9420
1100	9069	9071
	9070	9072
1101	9073	9075
	9074	9076
1102	9077	9079
	9078	9080
1103	9081	9083
	9082	9084

Line G74A-Tape NumbersOdd System      Even System

1104	9065	9067
	9066	9068
1105	9085	9087
	9086	9088
1106	9101	9103
	9102	9104
1107	9227	9228
1108	9229	9230
1109	9193	9201
	9194	9202
1110	9231	9233
	9232	9234
1111	9197	9199
	9198	9200
1112	9147	9190
1113	9255	9256
1114	9257	9258
1115	9253	9254
1116	9249	9251
	9250	9252
1117	9247	9248
1118	9243	9245
	9244	9246
1119	9133	9137
	9134	9138
	9135	9139
	9136	9140

Line G74A-Tape NumbersOdd SystemEven System

1120	9149	9150
1121	9195	9153
	9148	9154
1122	9089	9093
	9090	9094
	9091	9095
	9092	9096
1123	9151	9152
1124	9365	9369
	9366	9370
	9367	9371
	9368	9372
1125	9421	9422
1126	9415	9416
1127	9285	9286
1128	9287	9288
1129	9289	9290
1130	9291	9291
1131	9293	9294
1132	9295	9296
1133	9457	9459
	9458	9460
1134	9437	9439
	9438	9440
1135	9461	9462

Line G74A-Tape NumbersOdd System      Even System

1136	9107	9108
1137	9189	9187
	9186	9188
1138	9465	9466
1139	9463	9464
1140	9431	9432
1141	9425	9426
1142	9427	9429
	9428	9430
1143	9441	9443
	9442	9444
1144	9445	9447
	9446	9448
1145	9423	9424
1146	9453	9455
	9454	9456
1147	9407	9408
1148	9449	9451
	9450	9452
1149	9433	9435
	9434	9436
1150	9225	9226
1151	9532	9534
1152	9589	9590
1153	9587	9588

Line G74A-Tape NumbersOdd SystemEven System

1154	9585	9586
1155	9331	9334
	9332	9335
	9333	9336
1156	9409	9412
	9410	9413
	9411	9414
1157	9323	9326
	9324	9327
	9325	9328
1158	9339	9341
	9340	9342
1159	9397	9400
	9398	9401
	9399	9402
1160	9403	9405
	9404	9406
1161	9349	9350
1162	9393	9395
	9394	9396
1163	9351	9352
1164	9273	9275
	9274	9276
1165	9267	9269
	9268	9270
1166	9177	9178

Line G74A-Tape NumbersOdd System      Even System

1167	9185	9181
	9180	9182
1168	9183	9184
1169	9179	9174
1170	9175	9176
1171	9271	9272
1172	9277	9278
1173	9279	9280
1174	9281	9282
1175	9283	9284
1176	9315	9316
1177	9311	9312
1178	9313	9314
1179	9305	9307
	9306	9308
1180	9309	9310
1181	9297	9299
	9298	9300
1182	9497	9498
1183	9301	9303
	9302	9304
1184	9319	9321
	9320	9322
1185	9317	9318

Line G74A-Tape NumbersOdd SystemEven System

1186	9551	9553
	9552	9554
1187	9329	9330
1188	9353	9357
	9354	9358
	9355	9359
	9356	9360
1189	9605	9607
	9606	9608
1190	9609	9611
	9610	9612
1191	9619	9621
	9620	9622
	9638	9639
1192	9623	9625
	9624	9626
	9649	9650
1193	9613	9615
	9614	9616
1194	9617	9618
1195	9627	9628
1196	9629	9630
1197	9665	9666
1198	9631	9632
	9645	9646
1199	9633	9634
1200	9635	9636

Line G74A-Tape NumbersOdd SystemEven System

1201	9640	9631
1202	9569	9391
	9390	9392
1203	9647	9648
1204	9641	9643
	9642	9644
1205	9655	9657
	9656	9658
1206	9661	9663
	9662	9664
1207	9651	9653
	9652	9654
1208	9659	9660
1209	9171	9172
1210	9564	9566
	9542	9543
	9419	9420
1211	9552	9554
1212	9055	9057
	9056	9058
1213	9109	9111
	9110	9112
1214	9591	9592
1215	9599	9600
1216	9595	9596
1217	9363	9364

Line G74A-Tape NumbersOdd SystemEven System

1218	9361	9362
1219	9601	9602
/ 1220	9603	9604
1221	9593	9594
1222	9597	9598
1223	9667	9669
	9668	9670
1224	9671	9672
	9670	9668
1225B	9676	9678
1225	9673	9674
1226	9373	9375
	9374	9376
1227	9675	9677
	9676	9678
1228	9345	9347
	9346	9348
1229	9679	9680
1230	9681	9683
	9682	9684
1231	9685	9687
	<del>9686</del>	9688
1232	9689	9690
1233	9691	9692

Line G74A-Tape NumbersOdd SystemEven System

1234	9697	9698
1235	9699	9700
1236B	9703	9704
1236A	9701	9702
1237	9705	9706
	9707	9708
1238	9707	9708
1239	9713	9714
1240	9709	9711
	9710	9712
1241	9715	9716
1242	9693	9694
1243	9695	9696



2. MINICABLE COMMON DEPTH POINT GATHER (CDP) TAPES.

N.B. These tapes are in DFS III Field Format with no additional processing applied.

<u>LINE G74A</u>	<u>TAPE NUMBER</u>	<u>LINE G74A</u>	<u>TAPE NUMBER</u>
1001	2991	1032	3176
1002	384	1033	1354
1003	5250	1034	1354
1004	6790	1035	1354
1005	5250	1036	948
1006	927	1037	609
1007	6790	1038	609
1008	6790, 2013	1039	7224
1009	2991	1040	887, 8284
1010	5347, 8014	1041	887, 6315
1011	927	1042	6315
1012	8014	1043	6315, 71, 8767
1013	8014	1044	8767
1014	927	1045	8767
1015	927	1046	8767
1016	5250	1049	1404
1017	5250	1054	1354
1018	384	1055	1354
1019	384	1056	7689
1020	8014, 8423	1057	7689
1021	386	1058	7689
1022	386, 2488	1059	948
1023	386, 2488	1060	7689
1024	386, 8284, 2488	1061	7378
1025	7064	1062	948, 2488
1026	7064	1063	7378, 2013
1027	7064	1064	71, 8284
1028	7064	1065	609
1029	7064	1066	71
1030	7224	1067	8350
1031	3176	1069	8350



2. MINICABLE COMMON DEPTH POINT GATHER (CDP) TAPES contd.

<u>LINE G74A</u>	<u>TAPE NUMBER</u>	<u>LINE G74A</u>	<u>TAPE NUMBER</u>
1070	71	1104	2871
1073	3177, 2013	1105	6912, 8284
1076	1483	1106	4508
1077	1483	1107	8182
1078	3510	1108	8182
1079	3510, 2013	1109	8182
1080	3510	1110	8182
1081	3510, 2013	1111	8179
1082	6896, 2013	1112	3957
1083	6896	1113	1448
1084	5706	1114	3957
1085	1032	1115	1448, 2013
1086	5346	1116	1448
1087	1032	1117	5706, 2013, 1448
1088	8326, 3254	1118	5706
1088A	8179, 3254	1119	5671, 2013
1089	7431, 2013	1120	1483
1090	7083, 3254	1121	7524
1091	7524, 2488	1122	2934
1092	5543	1123	1483
1093	8203	1124	2007, 3254, 2013
1094	8275	1125	6804
1094A	8275, 8326	1126	372
1095	8203, 2013	1127	2345
1096	8275	1128	2345
1097	8275	1129	751
1098	6804, 3254	1130	751
1099	6804	1131	751
1100	104	1132	751
1101	2871	1133	6381
1102	104	1134	6804
1103	6912	1135	7126



2. MINICABLE COMMON DEPTH POINT GATHER (CDP) TAPES contd.

<u>LINE G74A</u>	<u>TAPE NUMBER</u>	<u>LINE G74A</u>	<u>TAPE NUMBER</u>
1136	6896, 2013	1169	7793, 2013
1137	8326	1170	7793, 3254
1138	7126	1171	7793
1139	7126	1172	6926
1140	4753	1173	6926
1141	4753	1174	6926
1142	4753, 3254	1175	6926
1143	2211	1176	5812
1144	2211	1177	5812
1145	5543	1178	630, 2013
1146	6770	1179	5812
1147	5543	1180	630
1148	6770		
1149	2228	1181	8423
1150	8203	1182	8423
1151	3836	1183	8423
1152	7500	1184	8356
1153	3836	1185	8356
1154	7500	1186	8357
1155	8528	1187	8357
1156	2227	1188	4366, 8284, 4401
1157	534	1189	7256
1158	5332	1190	7256
1159	2113	1191	4905
1160	563	1192	3177
1161	563	1193	3176
1162	563	1194	6592
1163	5812	1195	6592
1164	8240, 3254	1196	6592
1165	8240	1197	133
1166	7793	1198	6592
1167	2083	1199	133
1168	7793	1200	133

2. MINICABLE COMMON DEPTH POINT GATHER (CDP) TAPES contd.

<u>LINE G74A</u>	<u>TAPE NUMBER</u>	<u>LINE G74A</u>	<u>TAPE NUMBER</u>
1201	7253	1235	3759
1202	372, 8284	1236	3759, 2653
1203	7253	1237	2653
1204	7253	1238	2653
1205	6890	1239	2653
1206	6890	1240	6381
1207	6890	1241	1978
1208	7500	1242	1978
1209	5706	1243	1978
1210	4905	1047	8547
1211	3836	1048	1657
1213	4508	1049	1627
1214	4401	1050	1684
1215	3836	1051	8420
1216	3836, 8284	1052	847, 8547
1217	2228	1053	8420
1218	2228	1068	847, 8420
1219	4401	1071	8420
1220	4401	1072	8457
1221	4401	1073	847
1222	7500	1074	1657
1223	8768	1075	1627
1224	8768	1212	1627
1225	8768, 8065		
1226	3759, 2488		
1227	8065		
1228	8350		
1229	7480		
1230	7480		
1231	2345		
1232	8065		
1233	8065		
1234	3759		

3. MAIN CABLE RAW STACK (DPS) TAPES

<u>Tape Number</u>	<u>Line G74A-</u>
6516	1165, 1173, 1169, 1164, 1176, 1150, 1085, 1115, 1113, 1107, 1108, 1025, 1156, 1157, 1158, 1009, 1205, 1206.
6571	1004, 1006, 1056, 1061, 1210, 1211, 1201, 1198, 1089, 1192, 1216, 1001, 1189, 1069, 1194, 1055, 1220, 1221.
6576	1215, 1222, 1160, 1193, 1114, 1123, 1127, 1128, 1099, 1096, 1072, 1051, 1047, 1090, 1003, 1005, 1007, 1011, 1010, 1190.

Tape NumberLine G74A-

3248

1134, 1043, 1042,  
1036, 1197, 1015,  
1016, 1021, 1022,  
1023, 1024, 1028,  
1227, 1229, 1239,  
1240, 1242, 1243,  
1236B, 1236A, 1238,  
1224.

6825

1223, 1204, 1203,  
1196, 1026, 1029,  
1020, 1063, 1013,  
1027, 1031, 1018,  
1219, 1034, 1064,  
1178, 1146, 1144.

6490

1162, 1124, 1135,  
1097, 1077, 1159,  
1058, 1183, 1184,  
1177, 1180, 1182,  
1186, 1163, 1017,  
1119.

6634

1122, 1126, 1014,  
1121, 1088, 1088A,  
1092, 1054, 1038,  
1057, 1044, 1045,  
1040, 1133, 1142,  
1139, 1141, 1138.

Tape NumberLine G74A-

6639

1041, 1039, 1071,  
1053, 1068, 1074,  
1101, 1106, 1100,  
1200, 1208, 1217,  
1218, 1207, 1033,  
1199, 1170, 1167,  
1171, 1172.

6656

1168, 1174, 1175,  
1181, 1185, 1161,  
1002, 1131, 1093,  
1094, 1209, 1079,  
1213, 1087, 1116,  
1110, 1166, 1179,  
1078, 1091.

6695

1241, 1234, 1235,  
1233, 1232, 1225,  
1225B, 1226, 1231,  
1228, 1230, 1237,  
1195, 1151, 1154,  
1012, 1019, 1008,  
1214, 1050, 1095,  
1084.

6709

1117, 1118, 1136,  
1137, 1109, 1111,  
1112, 1086, 1104,  
1191, 1147, 1125,  
1145, 1146, 1152,  
1153, 1030.

Tape NumberLine G74A-

6718

1070, 1062, 1037,  
1046, 1059, 1060,  
1065, 1066, 1148,  
1040, 1067, 1032,  
1035, 1149, 1075,  
1048, 1212, 1049,  
1049A, 1105.

6726

1098, 1143, 1081,  
1076, 1080, 1083,  
1101, 1102, 1103,  
1082, 1120, 1187,  
1129, 1130, 1132,  
1155, 1188.

4. MINICABLE RAW STACK (DPS) TAPES

<u>Tape Number</u>	<u>Line G74A-</u>
5120	1083, 1079, 1077, 1076, 1120, 1091, 1095, 1213, 1010, 1022, 1023, 1024, 1151, 1153, 1062, 1243, 1041, 1226.
5537	1146, 1126, 1088A 1122, 1096, 1088, 1121, 1087, 1085, 1027, 1028, 1099, 1156.
6354	1149A, 1142, 1141, 1148, 1104, 1170, 1064, 1098, 1063, 1174, 1042, 1105, 1043, 1040.
5598	1124, 1202, 1039, 1228, 1030, 1090, 1150, 1167, 1071, 1139, 1138.

Tape NumberLine G74A-

8184

1073, 1052, 1047,  
1048, 1049, 1050,  
1051, 1053, 1058,  
1060, 1128, 1127,  
1190, 1222, 1208,  
1214, 1211, 1152,  
1160, 1157.

3128

1140, 1147A, 1008,  
1238, 1194, 1133,  
1004, 1102, 1108,  
1109, 1110, 1111,  
1086, 1137, 1136,  
1101.

3942

1119, 1166, 1171,  
1097, 1092, 1020,  
1067, 1065, 1230,  
1025, 1129, 1144,  
1188, 1123, 1173,  
1094, 1158.

2430

1009, 1002, 1005,  
1015, 1006, 1012,  
1013, 1181, 1183,  
1035, 1034, 1021,  
1169, 1223, 1234,  
1235, 1236A, 1237,  
1236B, 1227, 1225B,  
1209.

Tape NumberLine G74A-

3952

1118, 1116, 1115,  
114A, 1165, 1168,  
1175, 1154, 1049A,  
1081, 1080, 1078,  
1082, 1084, 1093,  
1094A, 1100, 1103,  
1107, 1106.

807

1113, 1112, 1212,  
1184, 1026, 1207,  
1229, 1216A, 1219,  
1130, 1066, 1172,  
1011A, 1145, 1239A,  
1163, 1179, 1177,  
1176, 1178, 1180,  
1159, 1161.

1660

1210, 1191, 1036,  
1059, 1061A, 1057,  
1056, 1218, 1217,  
1240, 1241, 1242,  
1232, 1233, 1007,  
1001, 1019, 1018,  
1003.

643

1017, 1016, 1014,  
1197, 1198A, 1196,  
1195, 1221, 1220,  
1215, 1055, 1054,  
1224, 1225, 1231,  
1044, 1045, 1046,  
1131, 1132, 1069B,  
1070.

Tape NumberLine G74A-

1747

1038, 1037, 1192,  
1189, 1204, 1203,  
1201, 1200, 1199,  
1206, 1205, 1033,  
1032, 1031, 1193,  
1135, 1182, 1185  
1186A, 1187.

397

1155, 1143, 1164,  
1117, 1029, 1089,  
1162, 1125, 1134,  
1075, 1072, 1074,  
1068.

5. MAIN CABLE VELOCITY ANALYSIS TAPES (Consolidation)

<u>Tape Number</u>	<u>Line G74A-</u>
1231	1164, 1171, 1165, 1172, 1114A, 1131, 1173, 1174, 1175, 1127, 1128.
1267	1104, 1103, 1105, 1076, 1077, 1079, 1080, 1090.
1400	1206, 1207, 1208, 1201, 1203, 1204, 1205.
1502	1198, 1199, 1200, 1192, 1194, 1195, 1196, 1197.
1688	1052, 1073A, 1212, 1048, 1074, 1075, 1047, 1049, 1049A
2098	1189, 1188, 1190, 1191, 1193.
2100	1001, 1006, 1008, 1009, 1010C, 1011, 1138, 1139.



<u>Tape Number</u>	<u>Line G74A-</u>
2125	1110, 1094, 1088.
2174	1155, 1157, 1124.
2592	1090, 1091, 1087.
3032	1069, 1070
3238	1093, 1086.
4087	1073, 1165.
4355	1176A, 1177A, 1178A, 1179A, 1181, 1183, 1184, 1185, 1187.
4481	1129, 1130, 1132.
4708	1119, 1121, 1120, 1097, 1096, 1109, 1112, 1107, 1108, 1093.
5075	1122, 1166, 1168, 1167, 1169, 1170.
5279	1100, 1101, 1106, 1083, 1082, 1081, 1102.
5498	1056, 1057, 1058, 1186, 1040, 1009, 1202.

Tape NumberLine G74A-

5653

1124, 1041, 1188,  
1044, 1045.

6232

1095, 1209, 1137,  
1123, 1111, 1150,  
1118, 1116, 1113,  
1117, 1115.

6249

1223, 1224, 1226,  
1231, 1232, 1233,  
1230.

6269

1242, 1243, 1236B,  
1236A, 1234, 1235,  
1237, 1238, 1240,  
1239, 1241.

6526

1227, 1229, 1225,  
1225B, 1228.

6841

1143, 1145, 1147A,  
1148, 1149A, 1144,  
1146.

6729

1121, 1066, 1022,  
1065, 1063, 1020,  
1021, 1023, 1024.

6806

1140, 1141, 1142,  
1092.



<u>Tape Number</u>	<u>Line G74A-</u>
7004	1051, 1053, 1050, 1071, 1072, 1068.
8082	1156, 1059, 1182, 1067, 1062, 1064, 1060.
8128	1214, 1216, 1217, 1218, 1219, 1220, 1221, 1215, 1222.
8186	1133, 1134, 1135, 1180, 1031, 1032, 1033, 1034, 1040.
8213	1002, 1003, 1004, 1005, 1202, 1061A.
8290	1158, 1159, 1160, 1162, 1163, 1156.
8347	1089, 1213, 1136, 1121, 1119.
8481	1012, 1013, 1014, 1015, 1016, 1026, 1027, 1028, 1029, 1030, 1017, 1018, 1019.
8514	1078, 1102.

Tape NumberLine G74A-

8539

1045, 1046, 1044,  
1151, 1152, 1153,  
1154, 1210, 1211.

8568

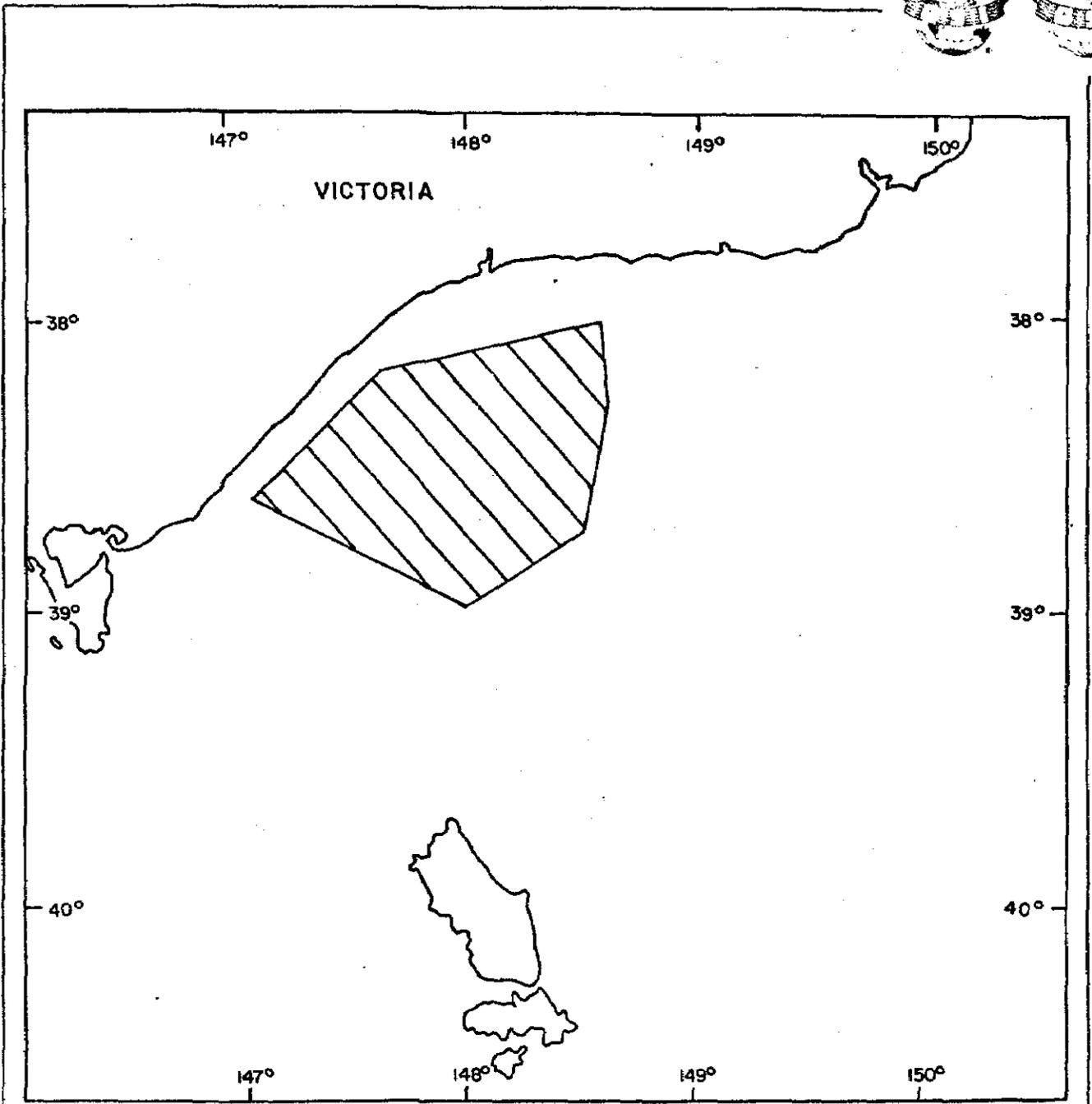
1085, 1084, 1073A,  
1012.

8603

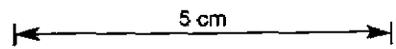
1039, 1040, 1042,  
1043, 1054, 1055.

8760

1007A, 1025, 1161,  
1099, 1098, 1125,  
1126, 1035, 1036,  
1037, 1038.

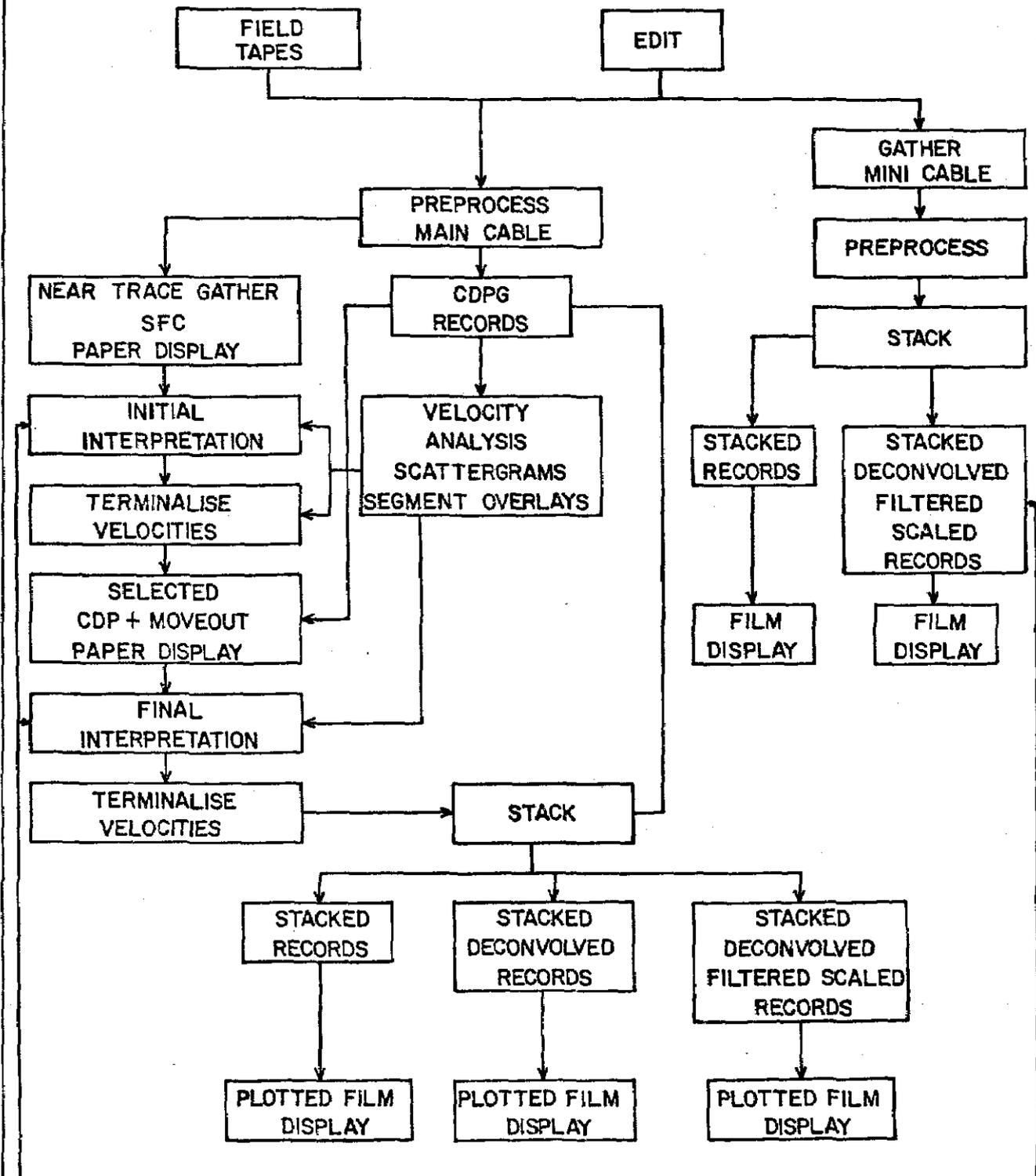


ESSO EXPLORATION & PRODUCTION AUSTRALIA INC.
LOCATION OF PROSPECT G74A
GEOPHYSICAL SERVICE INTERNATIONAL PARTY 93I





## PRODUCTION PROCESSING FLOW





Respectfully submitted  
GEOPHYSICAL SERVICE INTERNATIONAL

*Jan McMahon*

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I. McMahon  
Party Chief

*Bill Hill*

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Stuart J. Hill  
Data Processing Supervisor