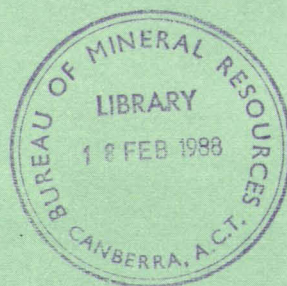




Report 277

BMR PUBLICATIONS COMPACTUS
(LENDING SECTION)

Seismic velocities in the crust and upper mantle of Australia



Compiled by C. D. N. Collins

Bureau of Mineral Resources, Geology and Geophysics

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Department of Primary Industries and Energy
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Division of Petrology and Geochemistry

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ABSTRACT

This report brings together most of the published velocity-depth information available for the deep crust and upper mantle of Australia, from surveys with data from below about 5 km depth. The velocities and depths for each model are listed, together with references, a plot of the velocity-depth curve, and location of the survey. The velocity models are derived from refraction surveys, regional earthquake body-wave and surface-wave data, and moveout analyses of reflection data. Both compressional and shear-wave data are listed, and the results of several marine refraction surveys on the continental shelf are included.

INTRODUCTION

Since the early 1950s a considerable body of data has accumulated on the crustal structure of the Australian continent. In particular, seismic velocity-depth curves for many areas have been published, with increasing detail as better recording and processing techniques have developed. Much of the earlier work has been summarised by Dooley (1970) and Cleary (1973), and more recent syntheses of Australian seismic data (eg. Finlayson & Mathur, 1984; Drummond & Collins, 1986) summarise results from later surveys. However, these summaries do not present the data in a form that can be used to obtain the precise velocity-depth values at each survey location, nor do they include all the available data. This information is sought by workers who require crustal models for many geological and geophysical investigations. Thus the need still exists for a comprehensive listing of the available crustal seismic velocity data and, in particular, the listing of the actual velocity and depth values so that these results can be readily used.

This collection of seismic velocity-depth data for the crust and upper mantle of Australia brings together published results mainly from refraction surveys, but includes interpretations of both body-wave and surface-wave data from regional earthquakes, and moveout analyses from expanding-spread reflection experiments. Several marine refraction surveys on the continental shelf have provided deep crustal data and the results from these are included. As the purpose of this report is to present data relevant to the deeper parts of the crust down to and including the upper mantle, only those surveys with data below about 5 km depth are listed here.

All available interpretations have been listed, except for a few earlier results which have been superseded by later interpretation of essentially the same data, or extensions to that data. In these cases only the latest reference is listed; references to the earlier work can be found in the listed reference. In addition, this compilation is intended to serve as an index of deep seismic surveys in Australia, and so includes in the location diagrams surveys for which velocity data are not yet available, as well as deep reflection profiles with no velocity data. A comprehensive reference to these latter surveys can be found in Moss & Dooley (in press), and Dooley & Moss (in press).

The system of listing the velocity-depth data is based around a master file containing all the data which is stored on disc on the Bureau of Mineral Resources's (BMR) computer system. A number of programs are available at BMR for retrieving the files, plotting the velocity-depth curves, etc. The velocity-depth curves are listed according to file names. These names are five characters long, and conform to the following format: (i) the first character is either P or S, according to whether the data are for P-waves or S-waves; (ii) the next two are the initial two letters of the principal author's name, except where minor variation is necessary to distinguish authors, whose names have the same first two letters, eg. Branson = BR, Brown = BW; and (iii) the last two characters are the serial number of the velocity-depth curve listed under that author's name, starting from 01, and incrementing each time new data are added.

The P-wave velocity-depth curves are listed first, followed by the S-wave curves, and within each major group the file names are listed in alphabetical order according to author, along with a brief title for

location, and the reference. The locations of the body-wave surveys referred to are shown in Figure 1. The locations of the surface-wave travel paths are shown in Figure 2, the deep reflection sites and traverses in Figure 3, and, to facilitate the location of the surveys, the major geological provinces of Australia are shown in Figure 4.

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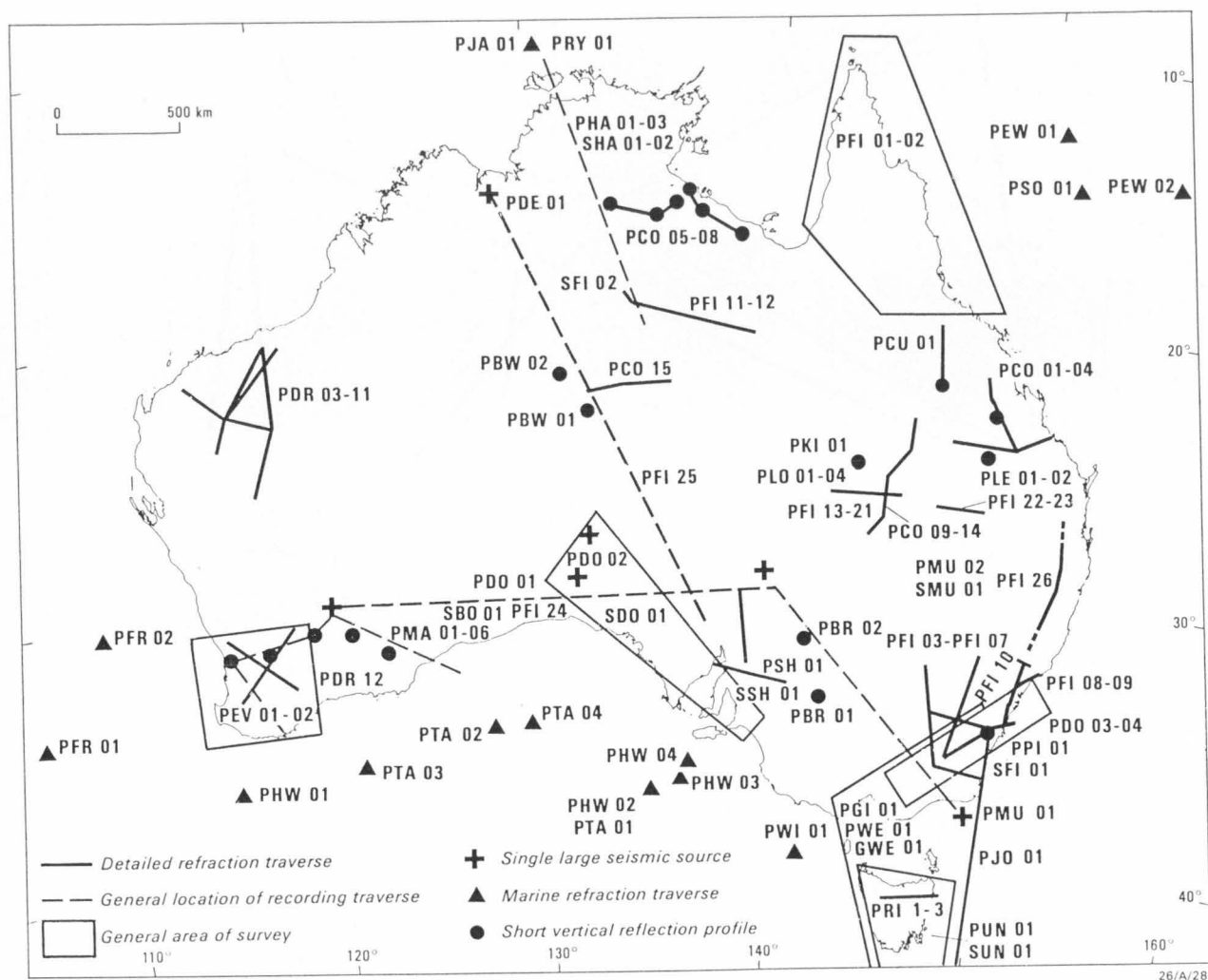
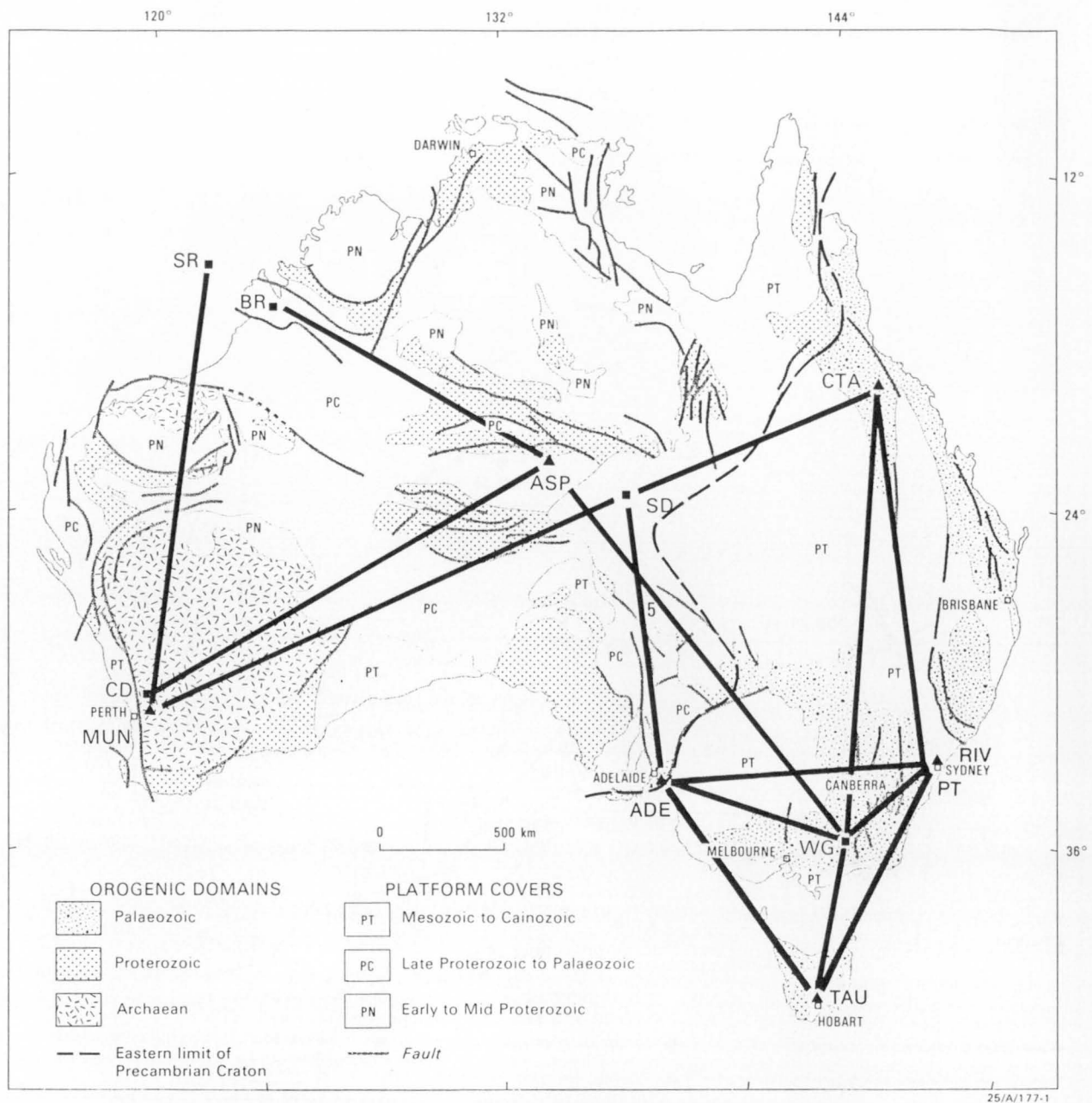


Figure 1. Location of deep seismic surveys



Stations		Path	Reference	Path	Reference
MUN	Mundaring	ADE-CTA	STH 01	WG-CTA	SDE 04
ASP	Alice Springs	ADE-RIV	STH 02	WG-ASP	SDE 05
CTA	Charters Towers	ADE-MUN	STH 03	SD-MUN	SEL 01
ADE	Adelaide	CTA-MUN	STH 04	CD-ASP	SEL 02
TAU	Tasmania	RIV-TAU	STH 05	SR-MUN	SEL 03
RIV	Riverview	ADE-TAU	STH 06	BR-ASP	SEL 04
<i>Earthquakes</i>		CTA-RIV	STH 07	SD-ADE	SEL 05
SR	Scott Reef	WG-ADE	SDE 01	WG-ASP	SEL 06
SD	Simpson Desert	WG-RIV	SDE 02	SD-CTA	SEL 07
CD	Cadoux	WG-TAU	SDE 03	PT-CTA	SMI 01-03
BR	Broome				
WG	Wonnangatta				
PT	Picton				

Figure 2. Location of surface-wave paths (after Ellis & Denham, 1985)

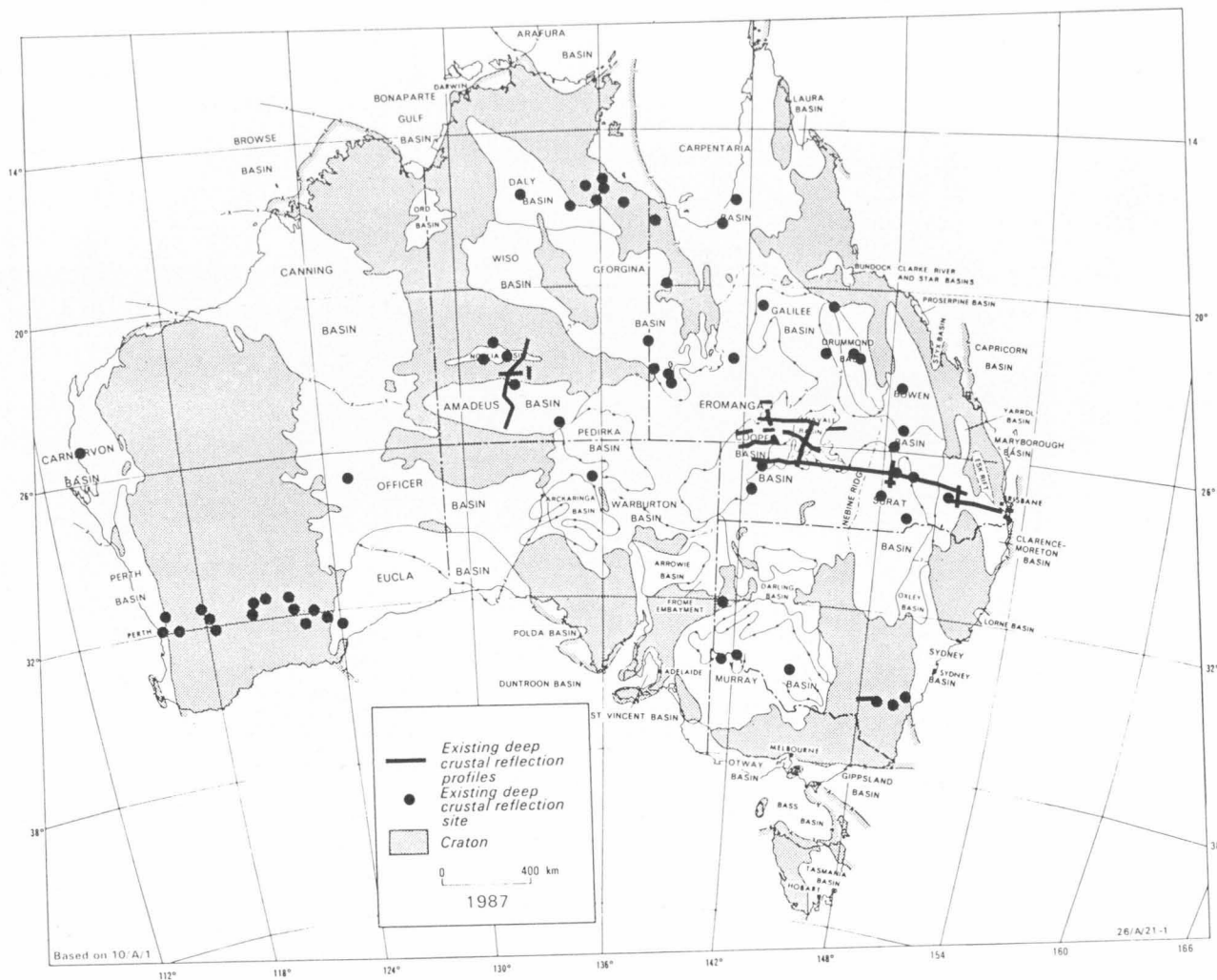


Figure 3. Location of deep reflection recordings (after Moss & Dooley, 1986)

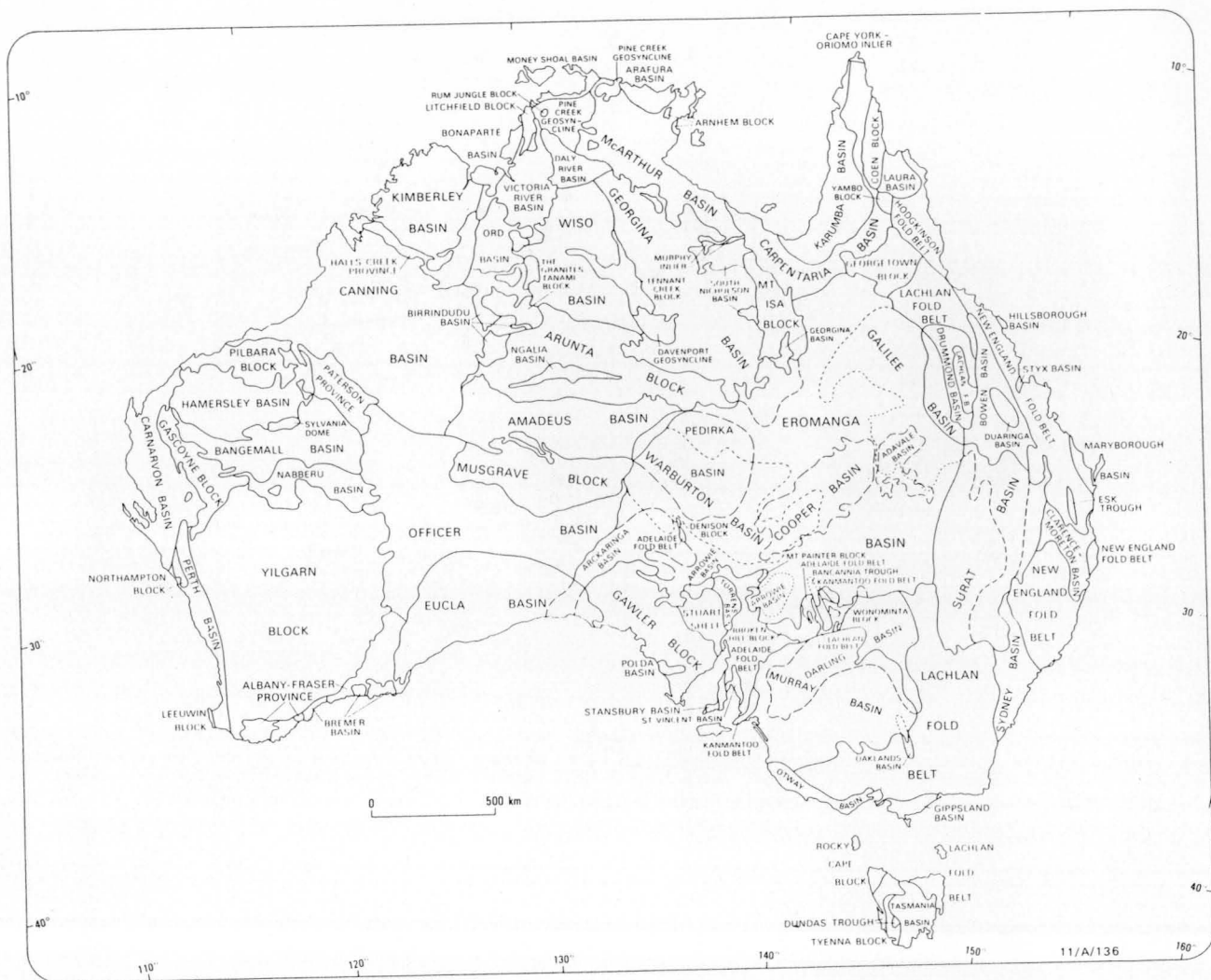


Figure 4. Major Australian geological provinces (from Palfreyman, 1984)

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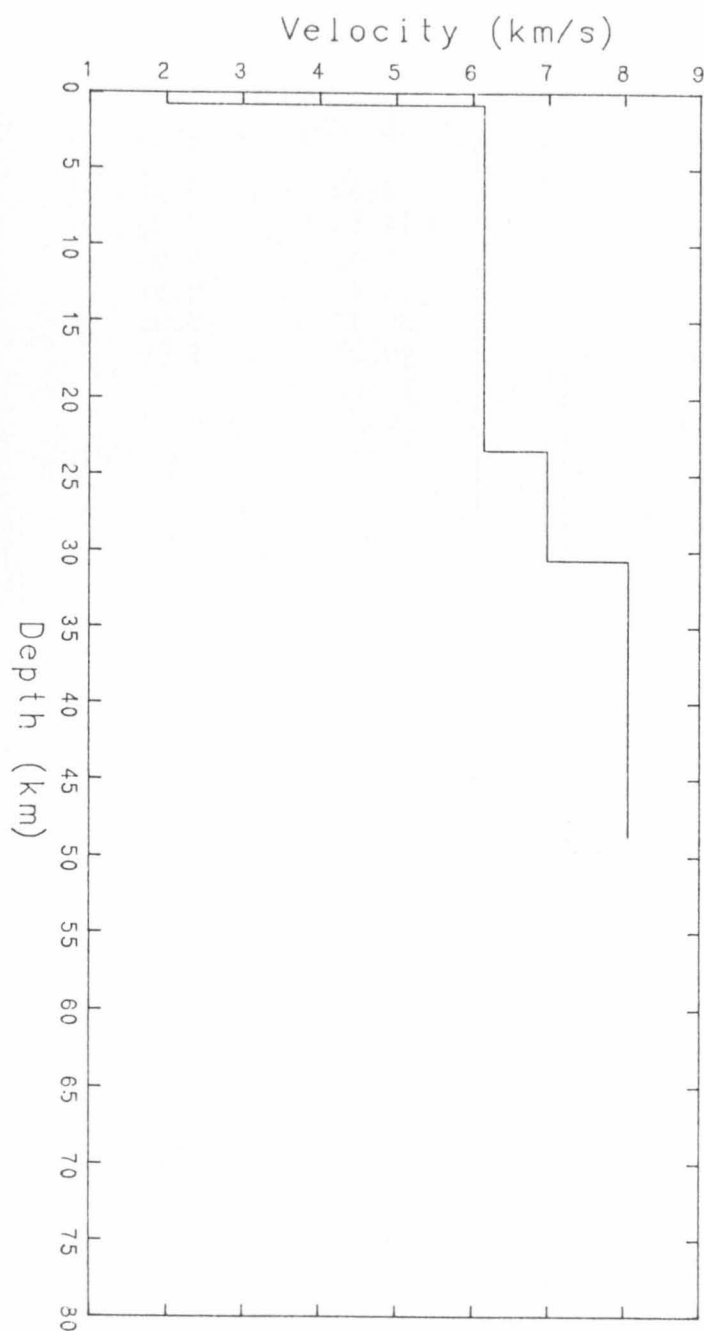
FILE	LOCATION	REFERENCE	PAGE
PBR01	Mildura (reflection)	Branson et al. (1976)	15
PBR02	Broken Hill (reflection)	Branson et al. (1976)	16
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PBW02	Ngalia Basin (reflection)	Brown (1970)	18
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PC005	Daly Waters, McArthur Bsn	Collins (1983)	23
PC006	H.Y.C., McArthur Bsn	Collins (1983)	24
PC007	Borrooloola, McArthur Bsn	Collins (1983)	25
PC008	Westmoreland, McArthur Bsn	Collins (1983)	26
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PSH01	South Australia - P wave		Shackelford & Sutton (1981)	115
PS001	Coral Sea Traverse 5		Shor (1967)	116
PTA01	Oceanic	V16-39	Talwani et al. (1979)	117
PTA02	Group I	15	Talwani et al. (1979)	118
PTA03	Group II	27	Talwani et al. (1979)	119
PTA04	Group III	18	Talwani et al. (1979)	120

PWE01	Victoria (VIC5A)	Wesson & Gibson, pers.comm.,1986	121
PWI01	Otway Sonobuoy	Williamson et. al. (1986)	122
SB001	Maralinga west - S waves	Bolt et al. (1958)	124
SB002	Bris-Perth, CTA-Perth	Bolt & Niazi (1964)	125
SDE01	WG to ADE surface wave	Denham & Ellis (1986)	126
SDE02	WG to RIV surface wave	Denham & Ellis (1986)	127
SDE03	WG to TAU surface wave	Denham & Ellis (1986)	128
SDE04	WG to CTA surface wave	Denham & Ellis (1986)	129
SDE05	WG to ASP surface wave	Denham & Ellis (1986)	130
SD001	Maralinga SE - S waves	Doyle & Everingham (1964)	131
SEL01	SD to MUN surface wave	Ellis & Denham (1985)	132
SEL02	CD to ASP surface wave	Ellis & Denham (1985)	133
SEL03	SR to MUN surface wave	Ellis & Denham (1985)	134
SEL04	BR to ASP surface wave	Ellis & Denham (1985)	135
SEL05	SD to ADE surface wave	Ellis & Denham (1985)	136
SEL06	WG to ASP surface wave	Ellis & Denham (1985)	137
SEL07	SD to CTA surface wave	Ellis & Denham (1985)	138
SFI01	Lachlan Fold Belt - S waves	Finlayson et al. (1980)	139
SFI02	Tennant Creek - S waves	Finlayson (1981)	140
SG001	E1 surface wave, East Aust.	Goncuz & Cleary (1976)	141
SG002	W1 surface wave, West Aust.	Goncuz & Cleary (1976)	142
SHA01	Darwin-Tennant Ck S - Shelf	Hales et al (1980)	143
SHA02	Darwin-Tennant Ck S - Land	Hales et al (1980)	144
SHE01	Upper Mantle: S wave	Hendrajaya & Muirhead (unpub.)	145
SMI01	Picton-Chartres Twrs CTA1S1	Mills & Fitch (1977)	146
SMI02	Picton-Chartres Twrs CTA2FS1	Mills & Fitch (1977)	147
SMI03	Picton-Chartres Twrs CTA2S1	Mills & Fitch (1977)	148
SMU01	Eastern Australia, S wave	Muirhead & Drummond (in press)	149
SRI01	Tasmania, earthquake model	Richardson & Pongratz,1973,(unpub)	150
SSH01	South Australia - S wave	Shackelford & Sutton (1981)	151
STH01	ADE-CTA 2 layer Surfce wave	Thomas (1969)	152
STH02	ADE-RIV 2 layer Surfce wave	Thomas (1969)	153
STH03	ADE-MUN 2 layer Surfce wave	Thomas (1969)	154
STH04	CTA-MUN 2 layer Surfce wave	Thomas (1969)	155
STH05	RIV-TAU 2 layer Surfce wave	Thomas (1969)	156
STH06	ADE-TAU 1 layer Surfce wave	Thomas (1969)	157
STH07	CTA-RIV 1 layer Surfce wave	Thomas (1969)	158
SWE01	Victoria (VIC5A) S wave	Wesson & Gibson, pers.comm.,1986	159

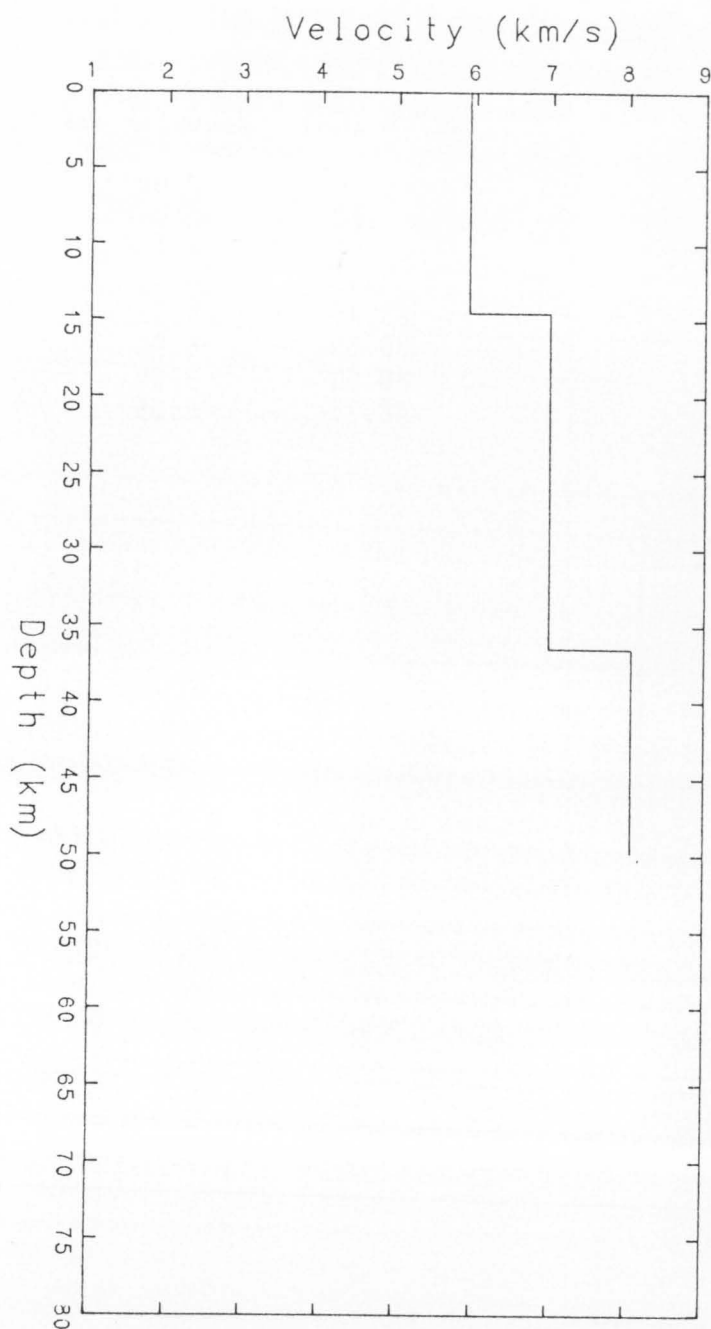
P-WAVE VELOCITY-DEPTH CURVES

PBR01 - MILDURA REFLECTION MODEL



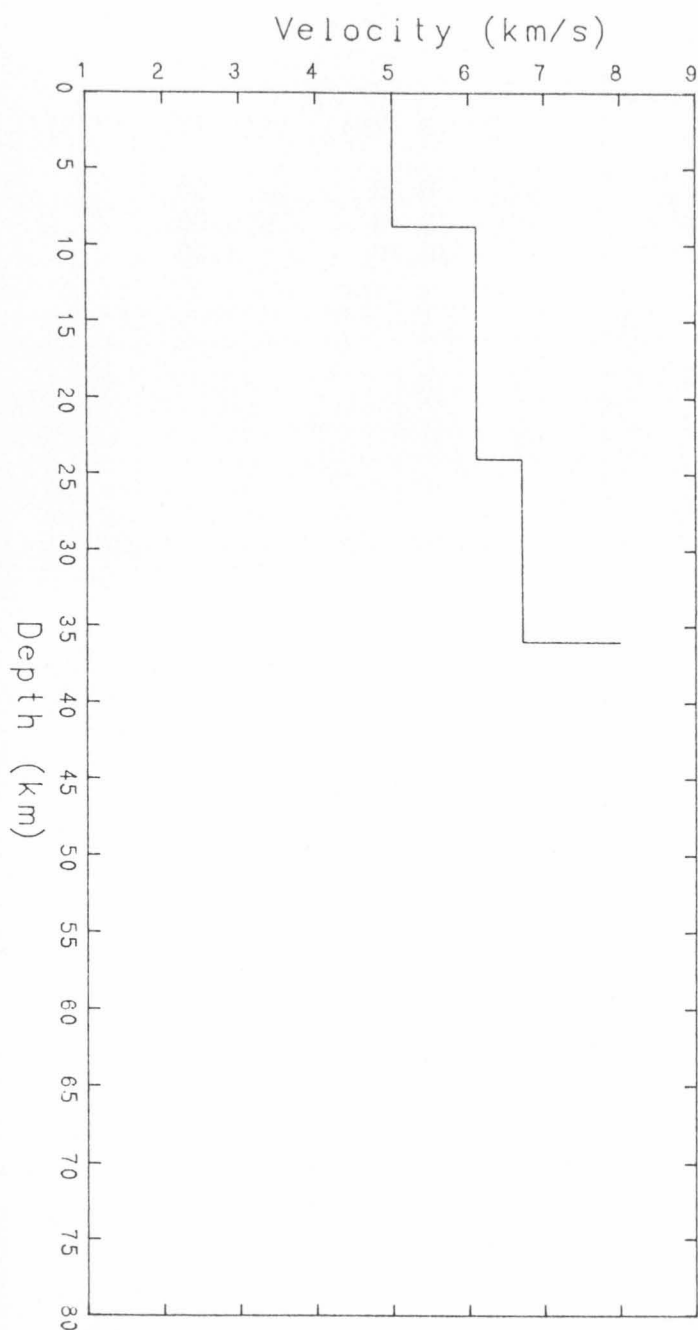
DEPTH (KM)	VELOCITY (KM/S)
0.00	2.00
.80	2.00
.80	6.15
23.45	6.15
23.45	6.98
30.60	6.98
30.60	8.05
48.75	8.05

PBR02 - BROKEN HILL REFLECTION MODEL



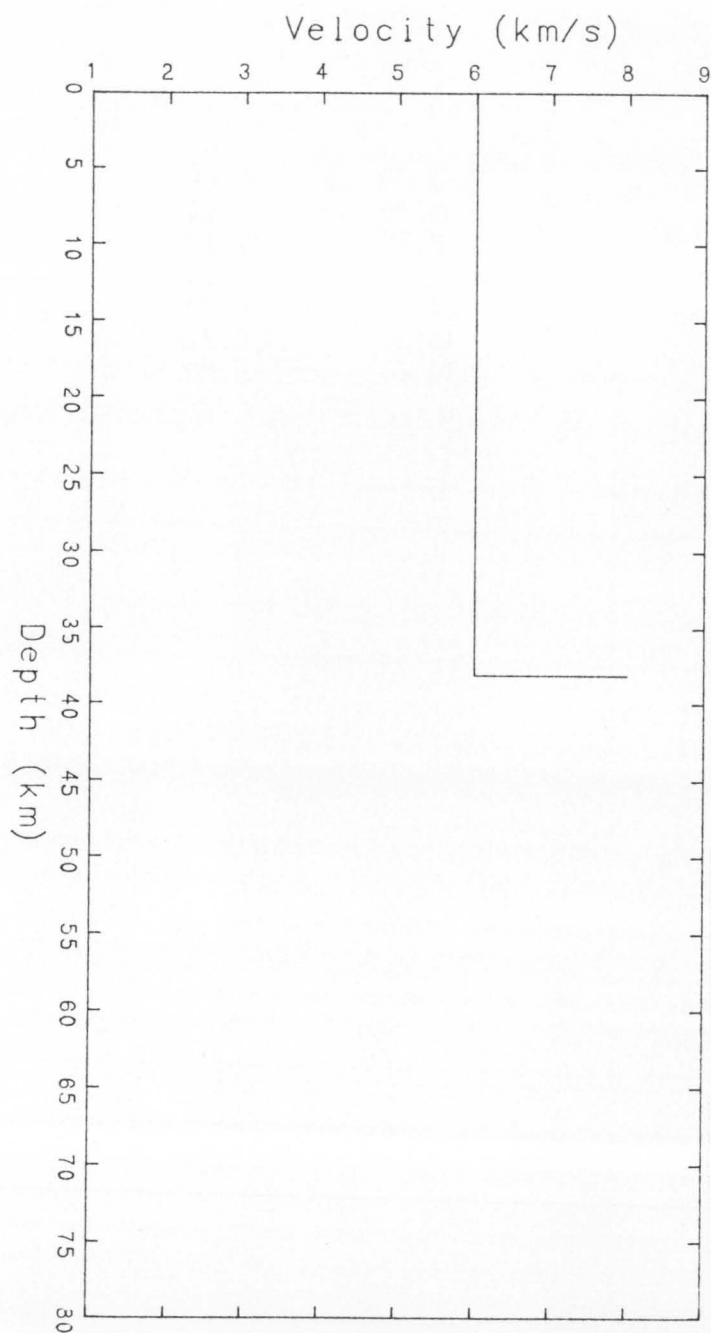
DEPTH (KM)	VELOCITY (KM/S)
0.00	5.92
14.53	5.92
14.53	6.97
36.49	6.97
36.49	8.05
49.85	8.05

PBW01 - AMADEUS BASIN REFLECTION MODEL



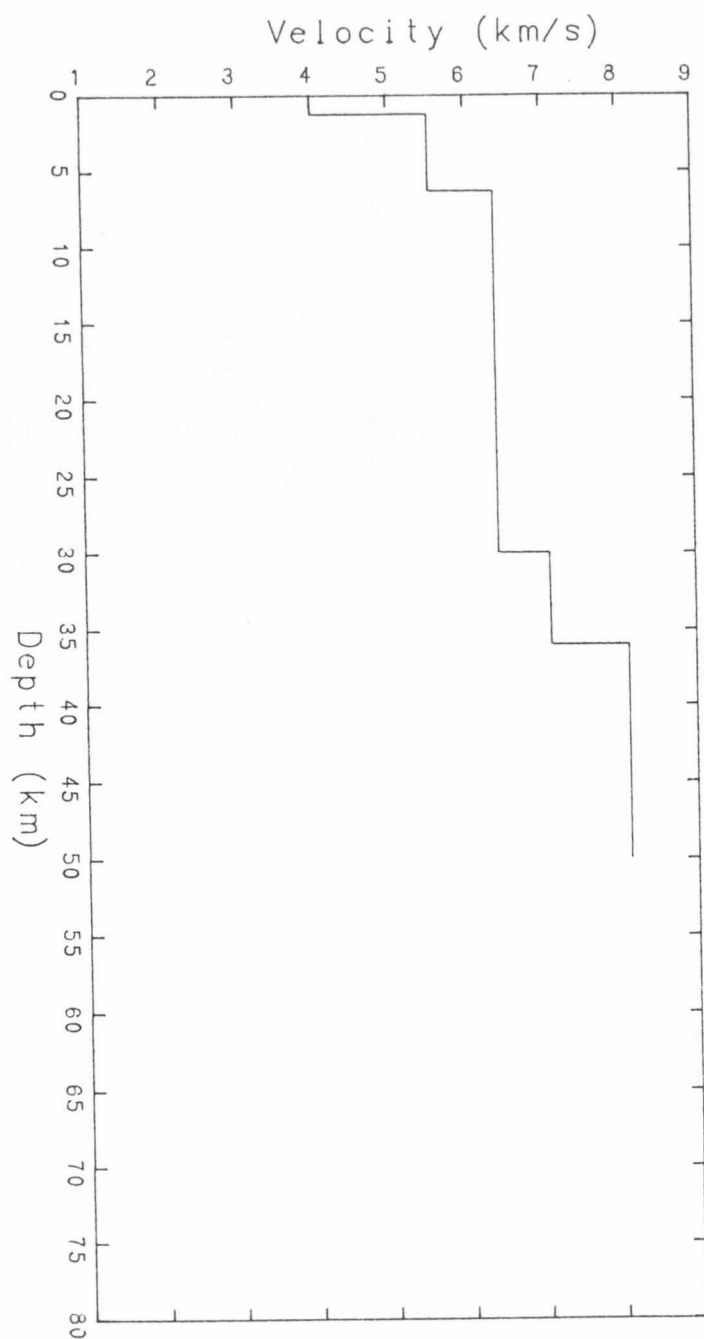
DEPTH (KM)	VELOCITY (KM/S)
0.00	5.00
8.75	5.00
8.75	6.10
24.00	6.10
24.00	6.70
36.00	6.71
36.00	8.00

PBW02 - NGALIA BASIN REFLECTION MODEL



DEPTH (KM) VELOCITY (KM/S)

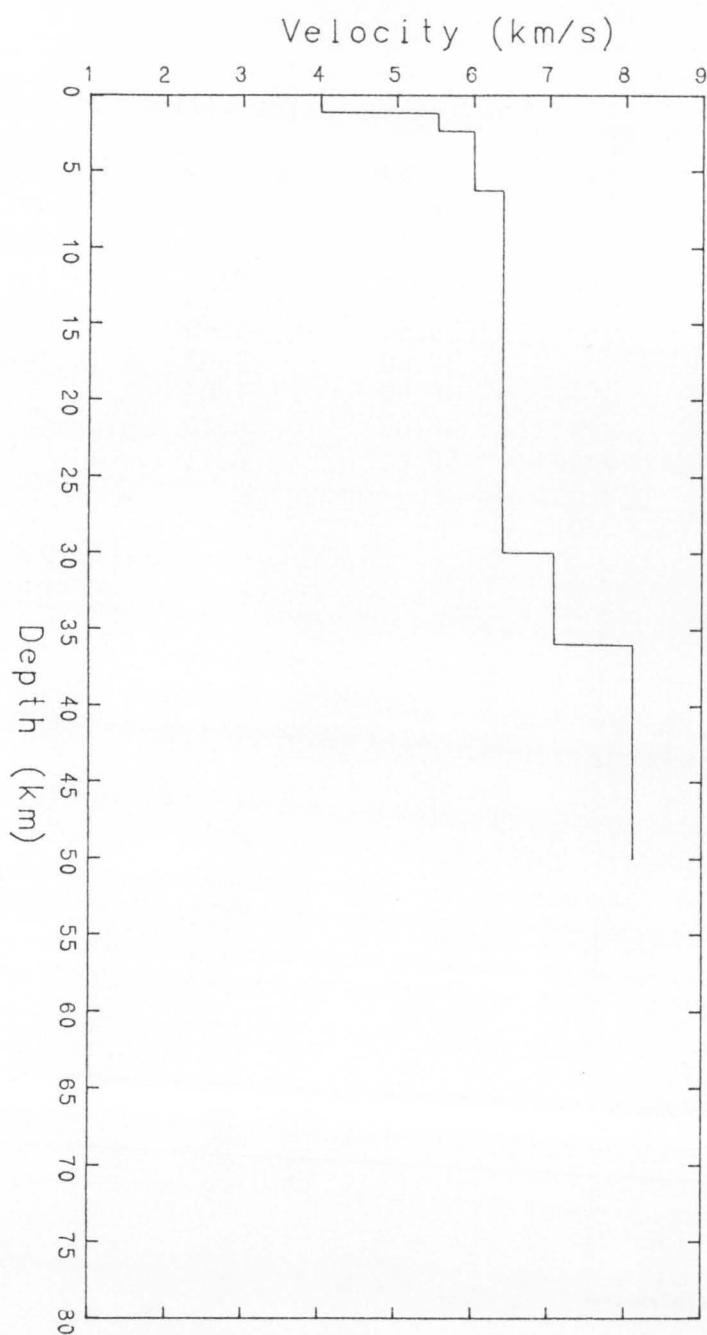
0.00	6.00
38.10	6.00
38.10	8.00



DEPTH (KM) VELOCITY (KM/S)

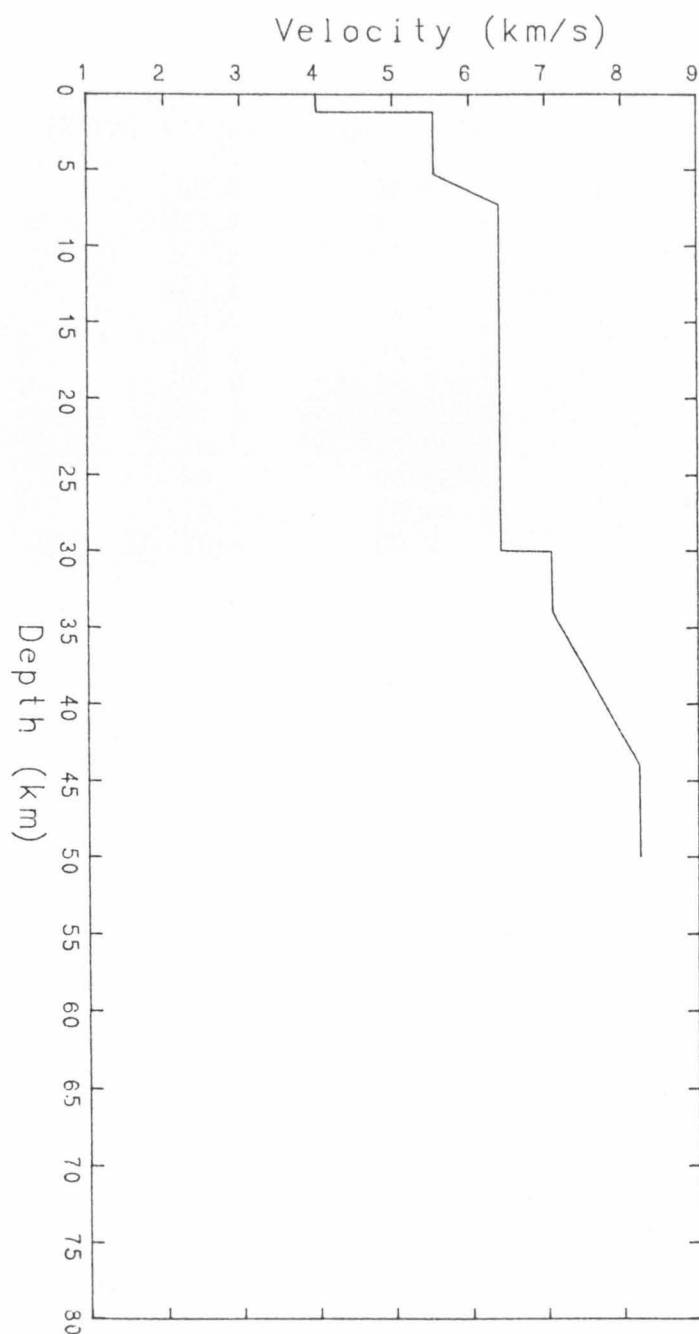
0.00	4.00
1.19	4.01
1.20	5.53
6.29	5.54
6.30	6.39
29.99	6.40
30.00	7.07
35.99	7.08
36.00	8.10
50.00	8.11

PC002 - BOWEN BASIN, QLD - MODEL 2



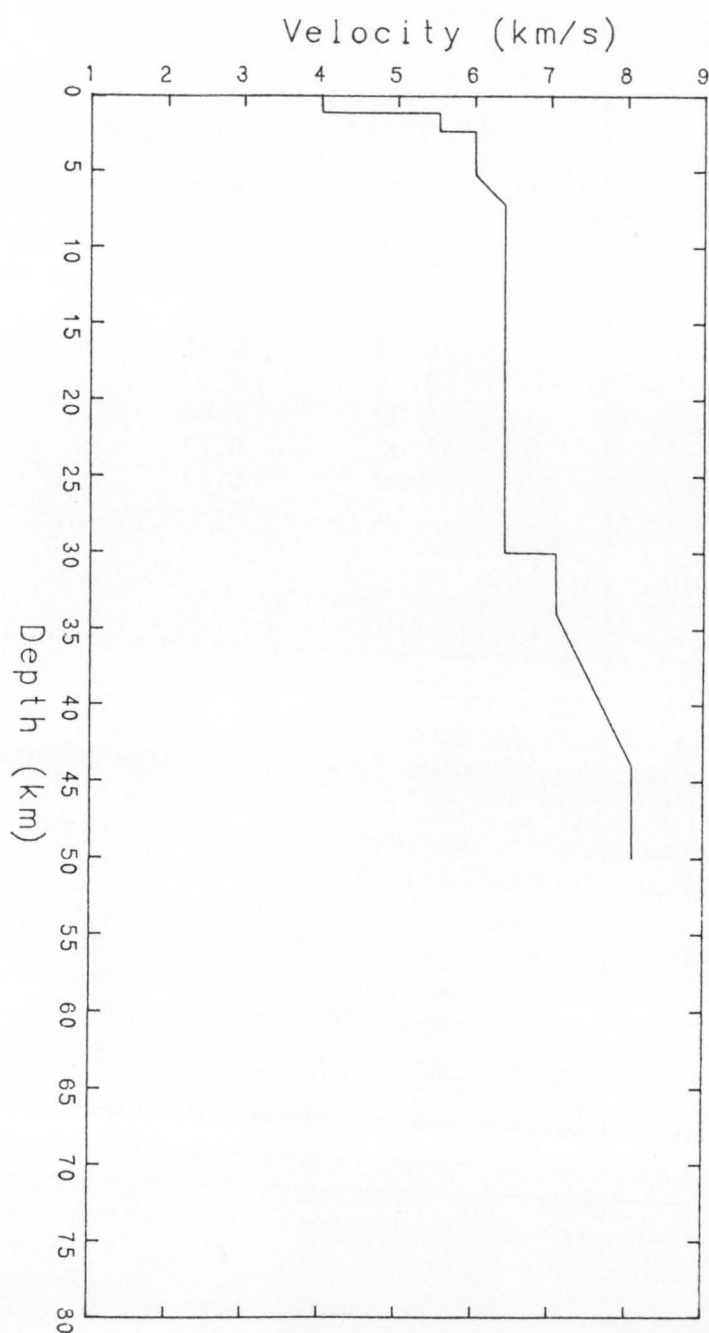
DEPTH (KM) VELOCITY (KM/S)

0.00	4.00
1.19	4.01
1.20	5.53
2.39	5.54
2.40	6.00
6.29	6.01
6.30	6.39
29.99	6.40
30.00	7.07
35.99	7.08
36.00	8.10
50.00	8.11



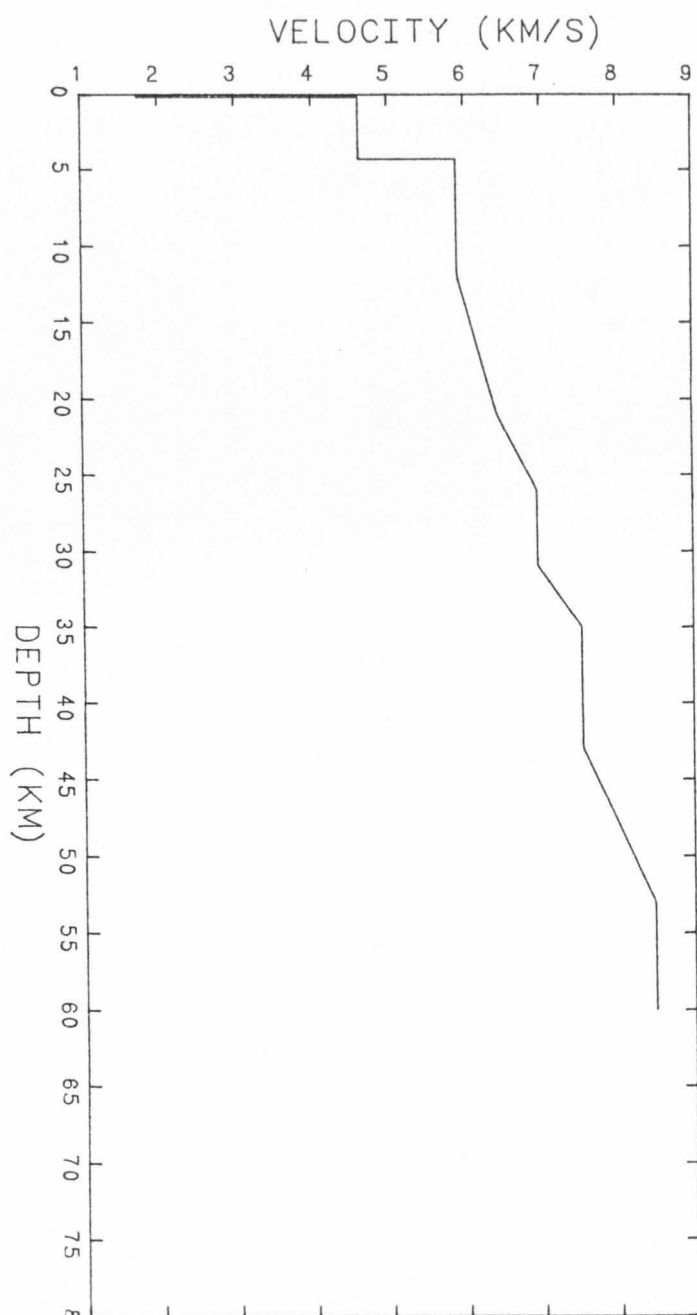
DEPTH (KM) VELOCITY (KM/S)

0.00	4.00
1.19	4.01
1.20	5.53
5.30	5.54
7.30	6.39
30.00	6.40
30.01	7.07
34.00	7.08
44.00	8.22
50.00	8.23

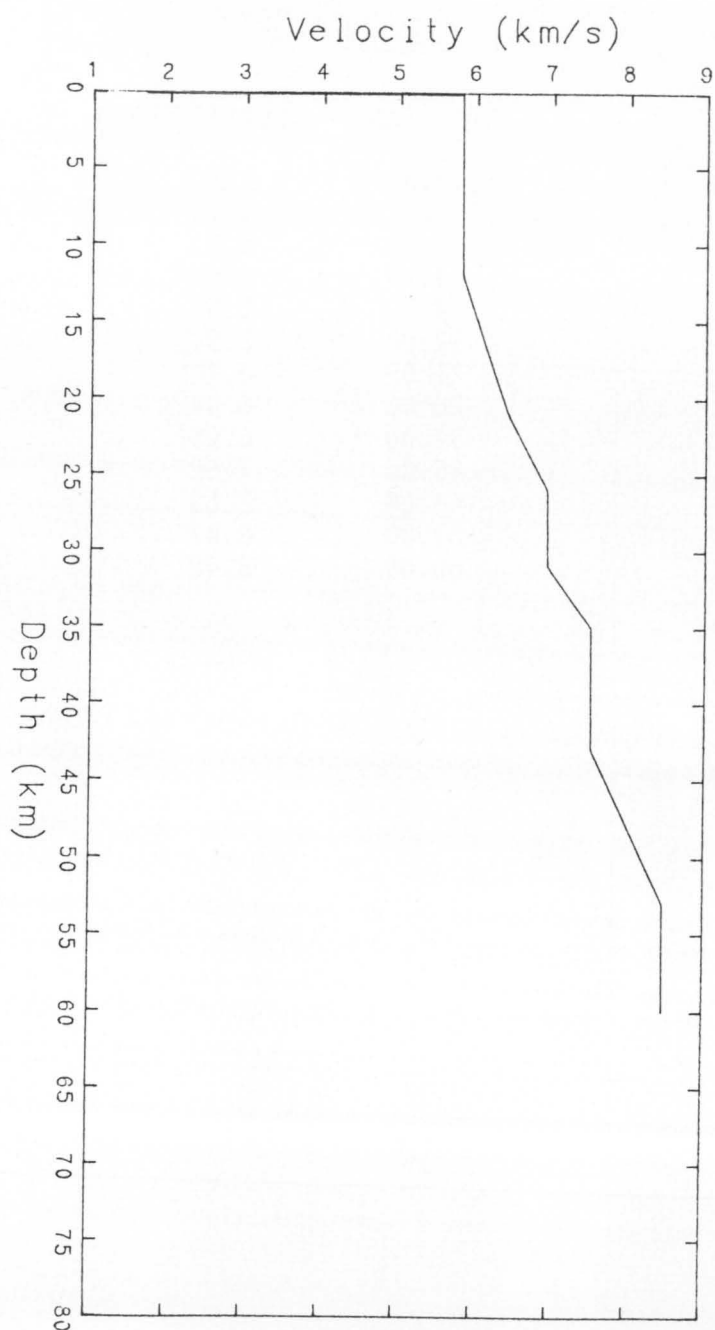


DEPTH (KM) VELOCITY (KM/S)

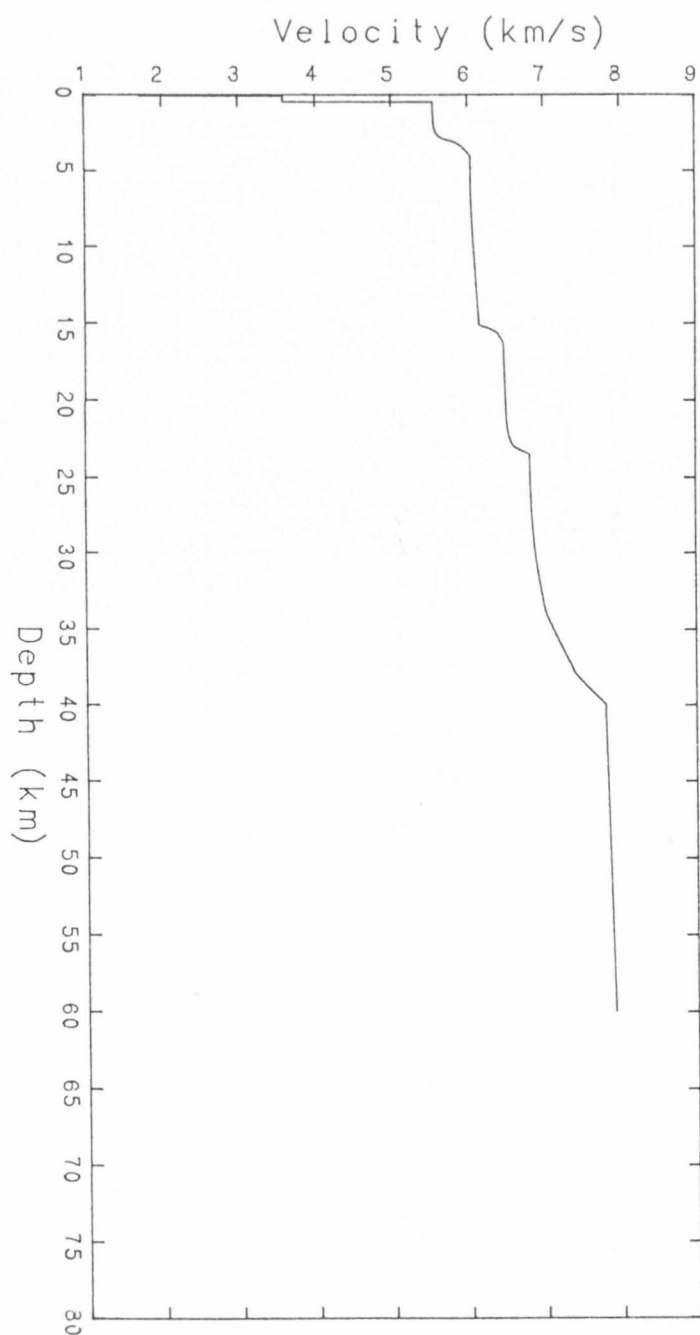
0.00	4.00
1.19	4.01
1.20	5.53
2.39	5.54
2.40	6.00
5.30	6.01
7.30	6.39
30.00	6.40
30.01	7.07
34.00	7.08
44.00	8.07
50.00	8.08



DEPTH (KM)	VELOCITY (K??
0.00	1.73
.17	1.74
.18	4.62
4.29	4.63
4.30	5.90
12.00	5.91
21.00	6.42
26.00	6.94
31.00	6.95
35.00	7.52
43.00	7.53
53.00	8.47
60.00	8.48

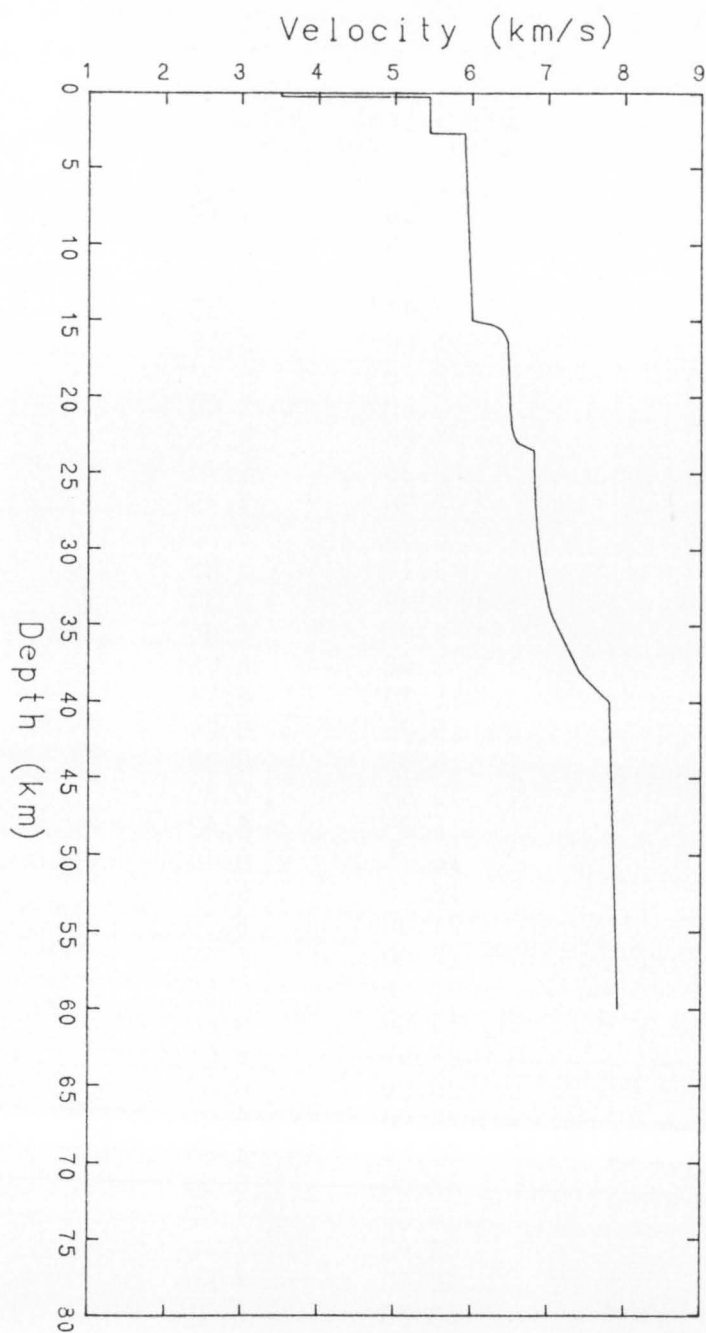


DEPTH (KM)	VELOCITY (KM/S)
0.00	1.68
.07	1.69
.07	5.81
12.00	5.82
21.00	6.42
26.00	6.94
31.00	6.95
35.00	7.52
43.00	7.53
53.00	8.47
60.00	8.48

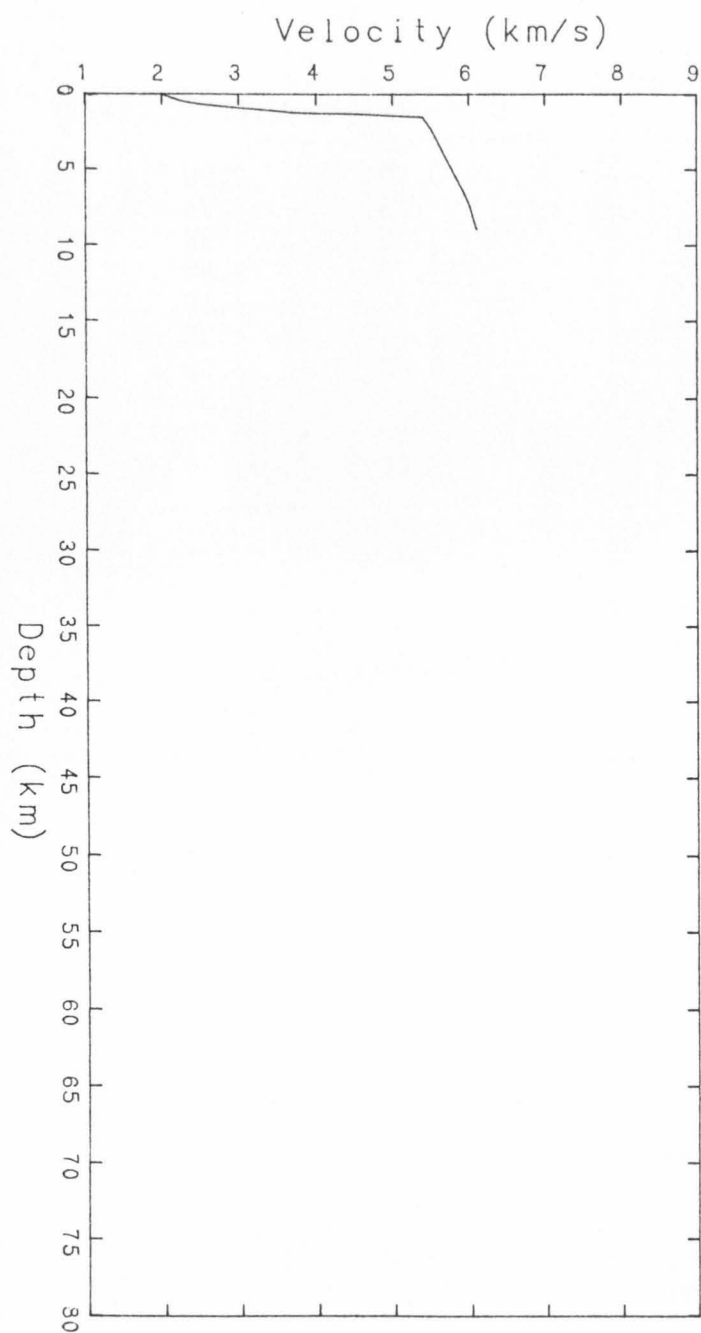


DEPTH (KM) VELOCITY (KM/S)

0.00	1.71
.05	1.72
.06	3.58
.42	3.59
.43	5.55
1.80	5.56
2.20	5.57
2.60	5.60
2.80	5.65
2.90	5.70
2.96	5.75
3.04	5.80
3.14	5.85
3.40	5.93
4.01	6.04
8.00	6.05
15.10	6.15
15.25	6.24
15.35	6.30
15.55	6.38
15.85	6.42
16.15	6.46
16.50	6.47
21.00	6.50
22.00	6.52
22.50	6.55
23.00	6.60
23.50	6.81
26.00	6.82
28.00	6.84
30.00	6.88
32.00	6.94
34.00	7.02
38.00	7.40
40.00	7.80
60.00	7.91

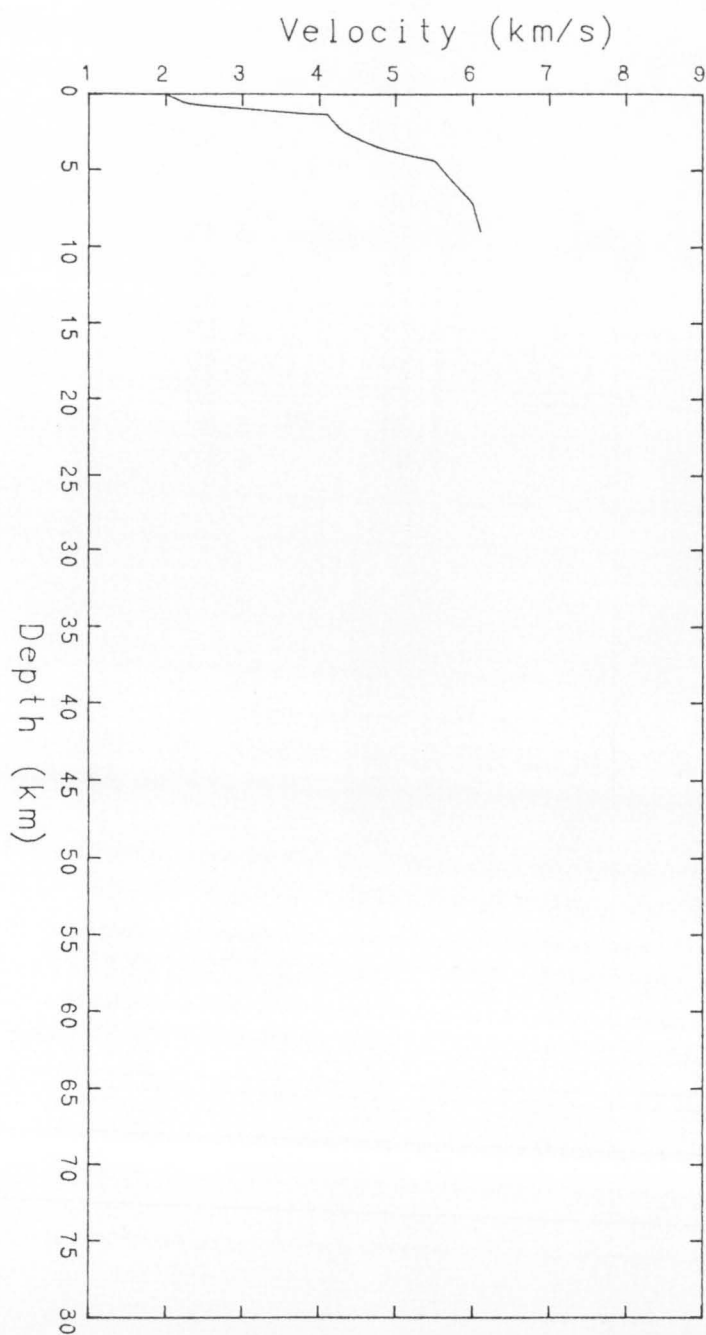


DEPTH (KM)	VELOCITY (KM/S)
0.00	3.50
.26	3.51
.27	5.44
2.69	5.45
2.70	5.90
15.00	6.00
15.25	6.24
15.35	6.30
15.55	6.38
15.85	6.42
16.15	6.46
16.50	6.47
21.00	6.50
22.00	6.52
22.50	6.55
23.00	6.60
23.50	6.81
26.00	6.82
28.00	6.84
30.00	6.88
32.00	6.94
34.00	7.02
38.00	7.40
40.00	7.80
60.00	7.91



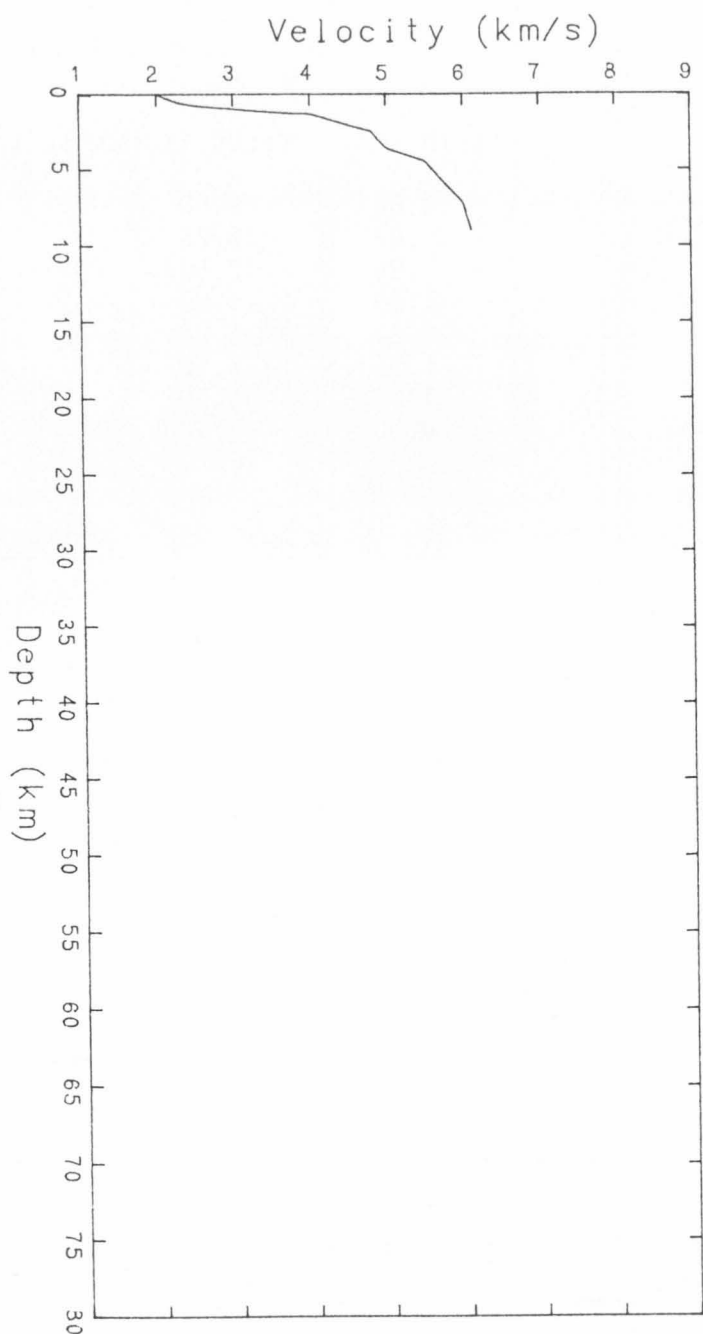
DEPTH (KM)	VELOCITY (KM/S)
0.00	2.00
.45	2.25
.70	2.50
1.25	3.80
1.26	4.50
1.50	5.40
2.25	5.50
7.20	6.00
9.00	6.10

PC010 - EROMANGA BASIN - QUILPIE, WEST



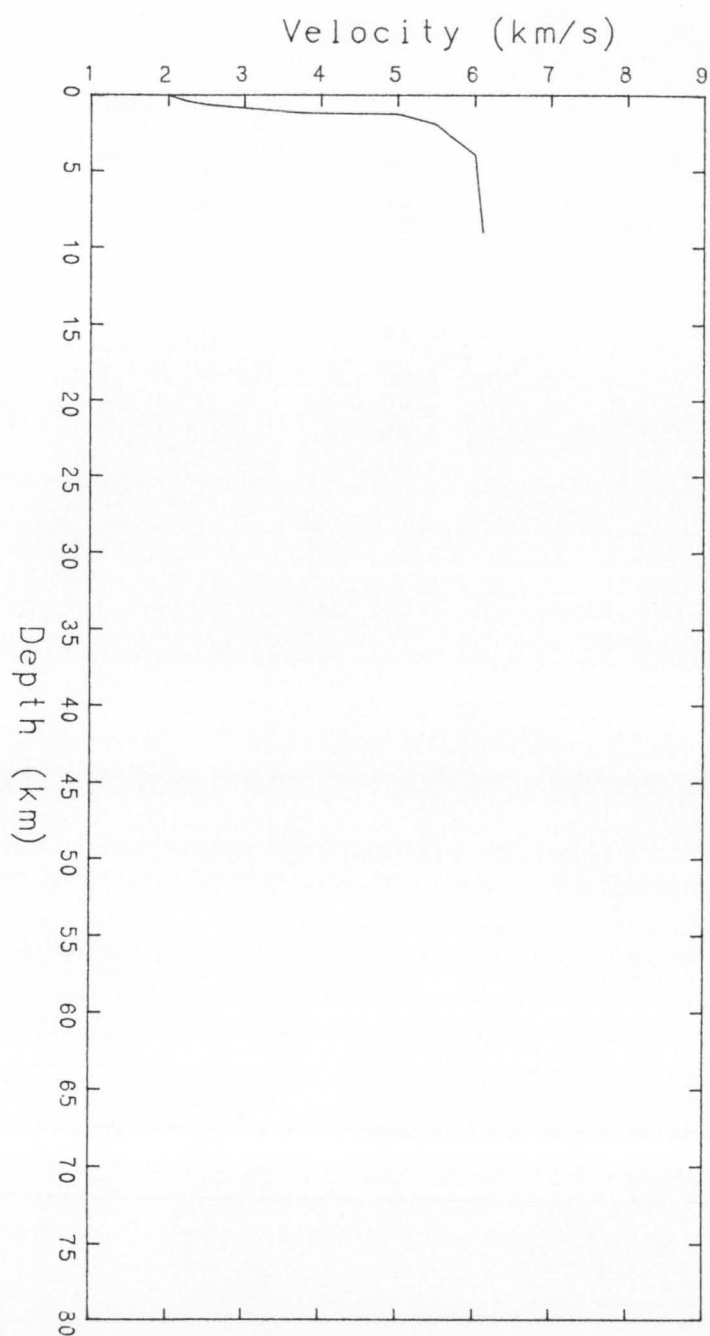
DEPTH (KM)	VELOCITY (KM/S)
0.00	2.00
.55	2.25
.75	2.50
1.30	3.80
1.31	4.10
2.45	4.30
3.60	4.80
4.40	5.50
7.20	6.00
9.00	6.10

PC011 - EROMANGA BASIN - QUILPIE, EAST



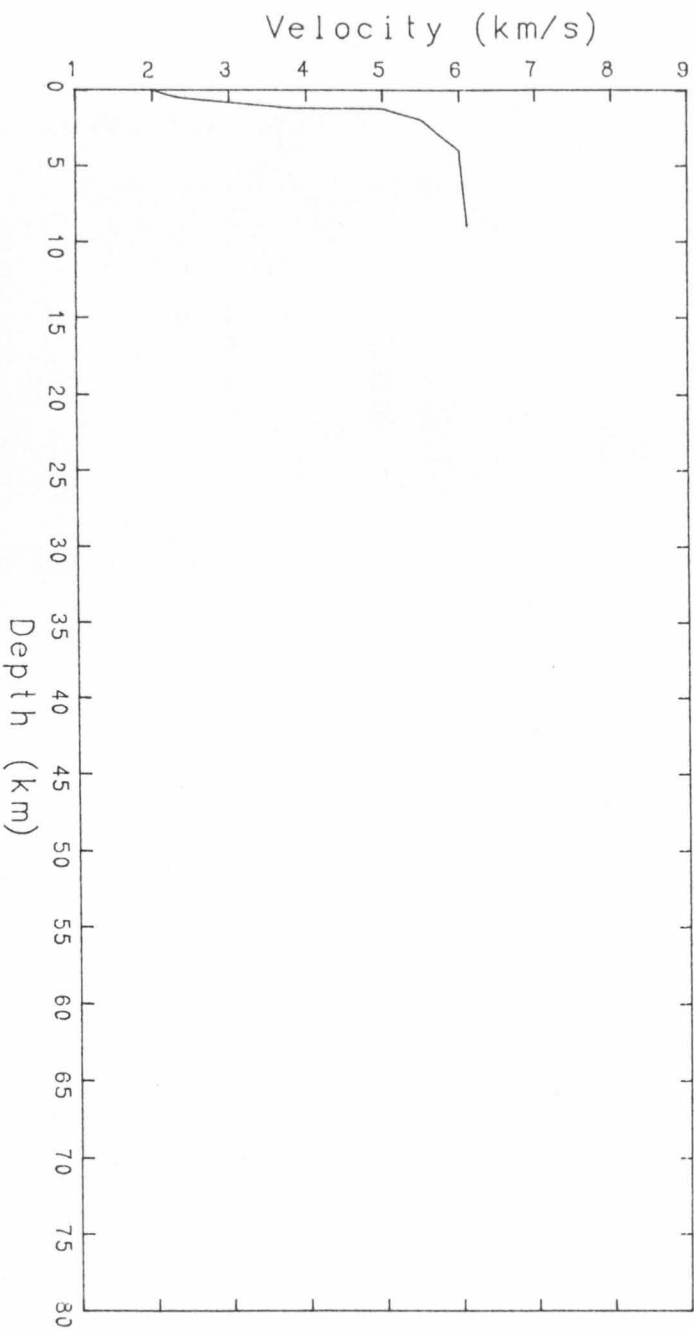
DEPTH (KM)	VELOCITY (KM/S)
0.00	2.00
.55	2.25
.75	2.50
1.30	3.79
1.31	4.00
2.45	4.80
3.60	5.00
4.40	5.50
7.20	6.00
9.00	6.10

PC012 - EROMANGA BASIN - WINBIN, WEST



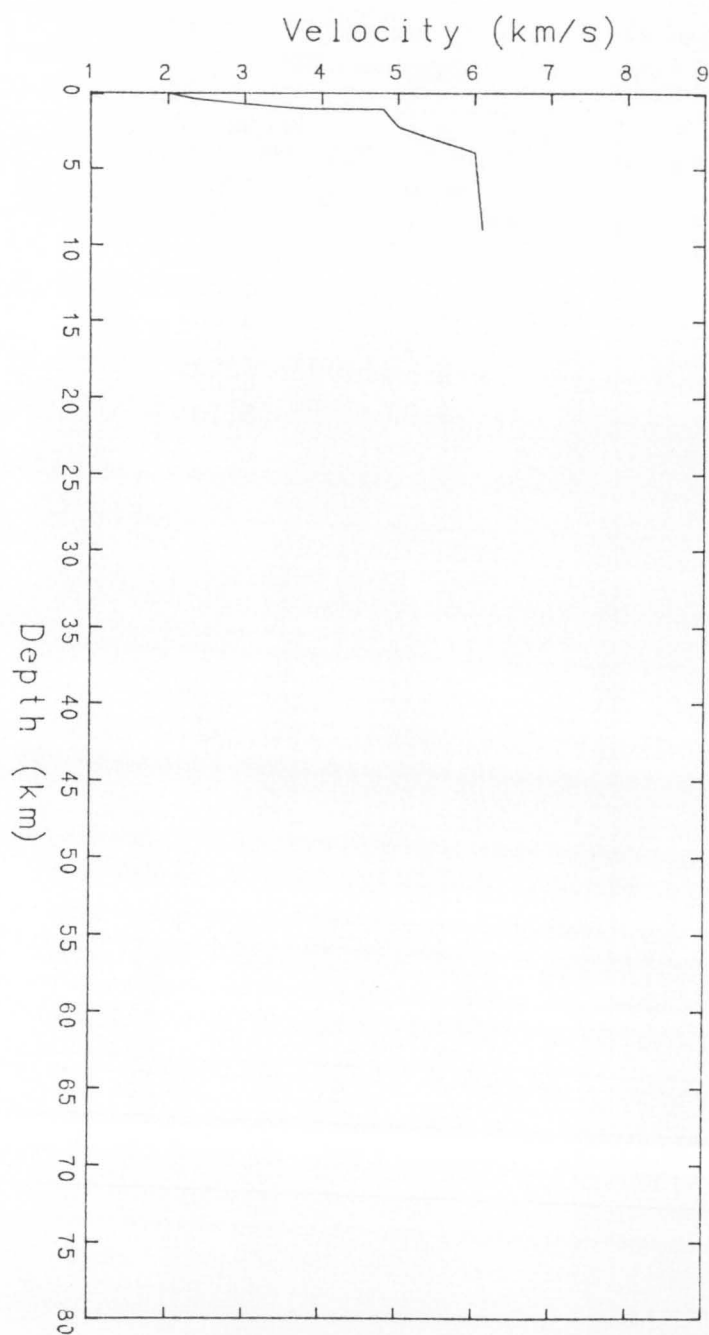
DEPTH (KM)	VELOCITY (KM/S)
0.00	2.00
.42	2.25
.65	2.50
1.20	3.80
1.21	5.00
1.95	5.50
4.00	6.00
9.00	6.10

PC013 - EROMANGA BASIN - WINBIN, EAST

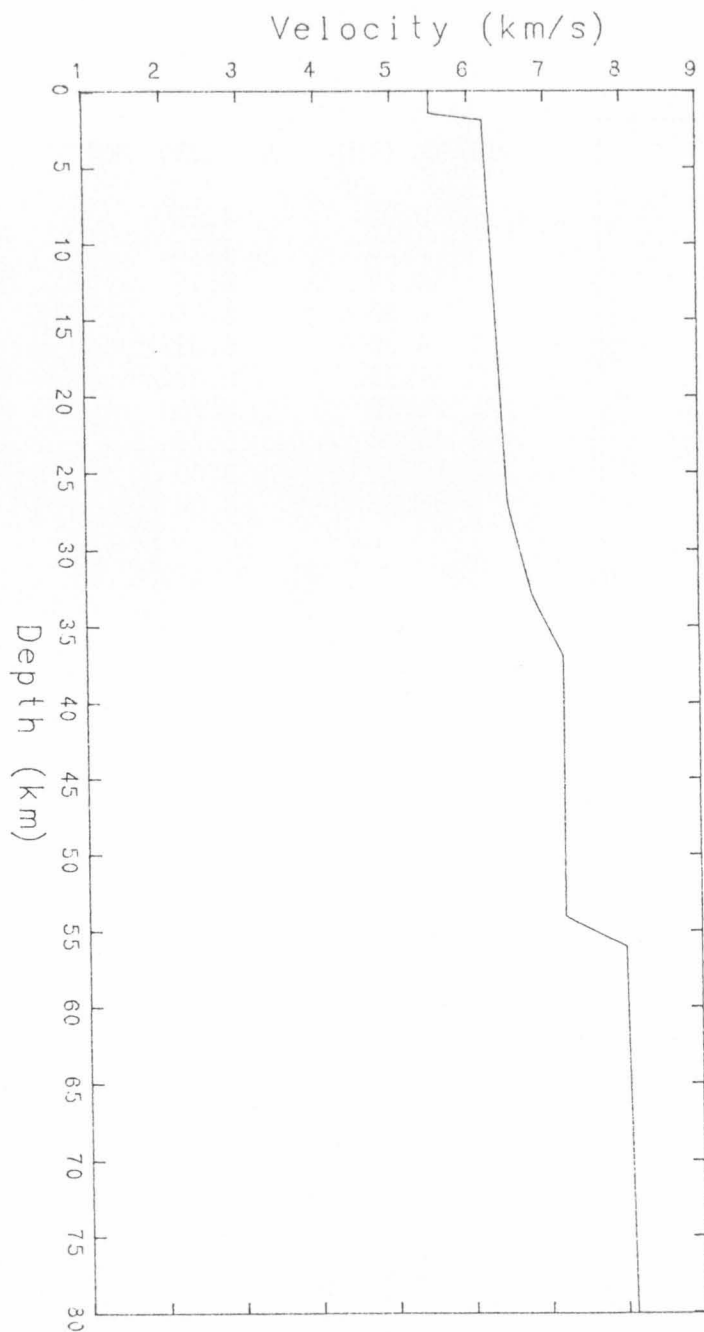


DEPTH (KM)	VELOCITY (KM/S)
0.00	2.00
.42	2.25
.60	2.50
1.20	3.80
1.21	5.00
1.95	5.50
4.00	6.00
9.00	6.10

PC014 - EROMANGA BASIN - CHEEPIE, WEST

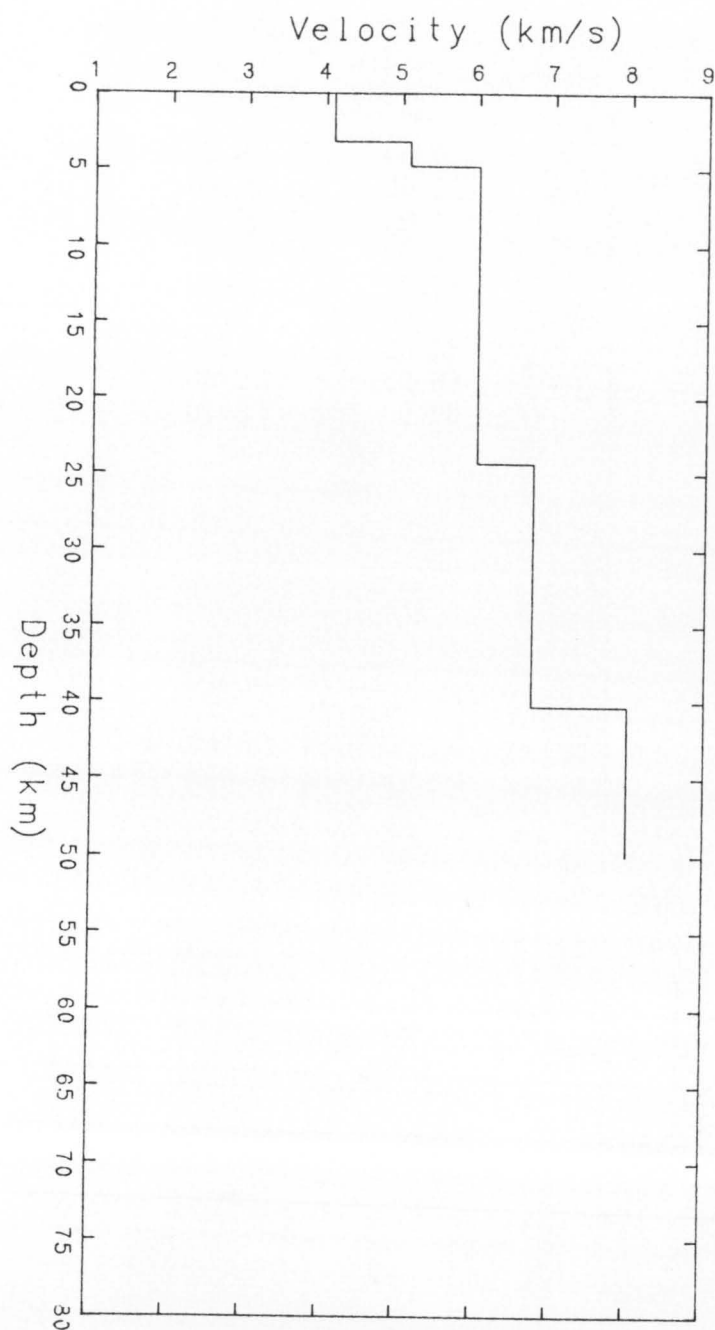


DEPTH (KM)	VELOCITY (KM/S)
0.00	2.00
.32	2.25
.50	2.50
1.10	3.80
1.11	4.80
2.30	5.00
4.00	6.00
9.00	6.10



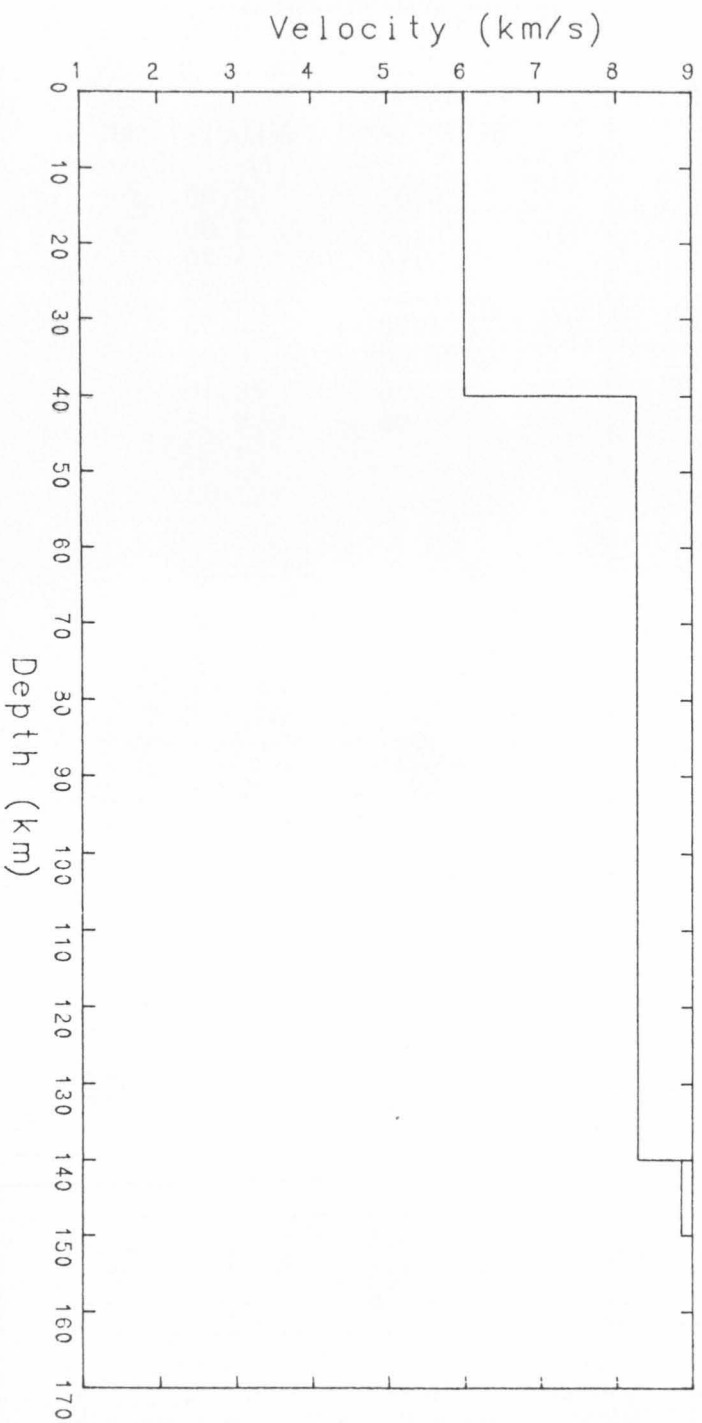
DEPTH (KM)	VELOCITY (KM/S)
0.00	5.50
1.50	5.50
1.90	6.20
27.00	6.49
33.00	6.80
37.00	7.20
54.00	7.20
56.00	8.00
80.00	8.10

PCU01 - GALILEE BASIN

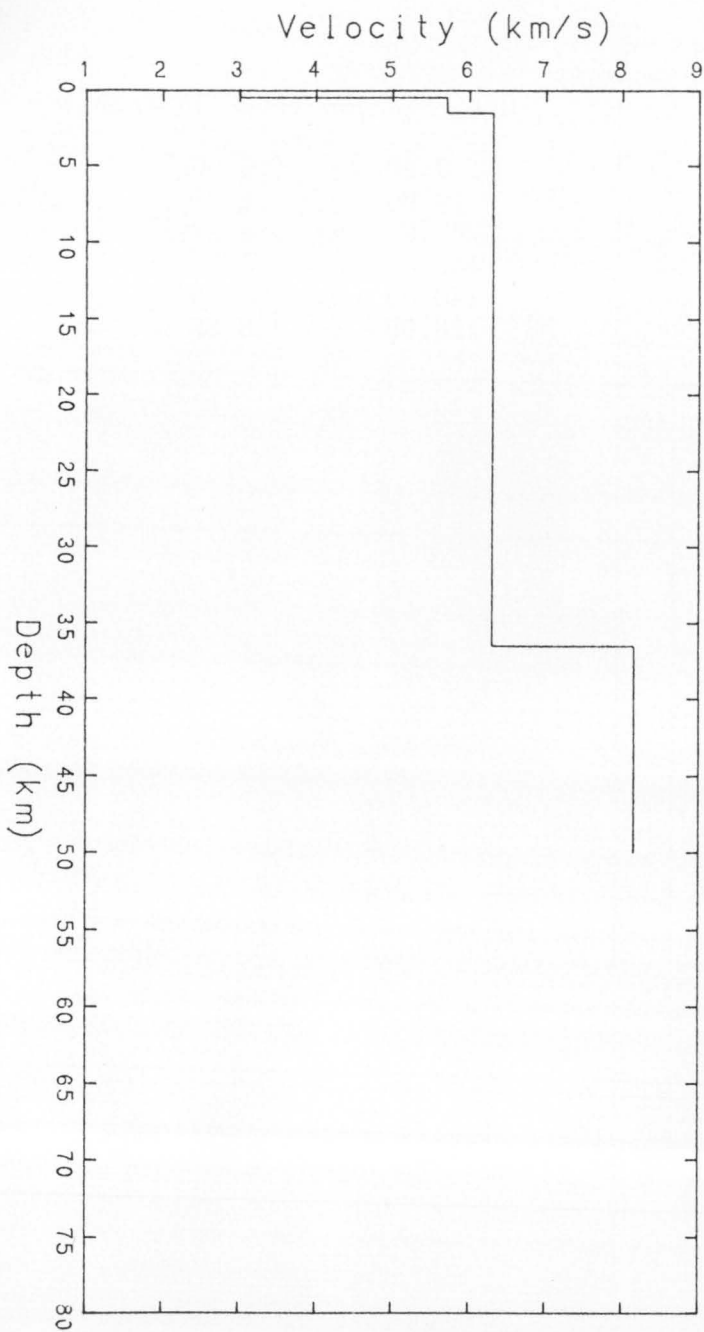


DEPTH (KM) VELOCITY (KM/S)

0.00	4.10
3.20	4.10
3.20	5.10
4.80	5.10
4.80	6.01
24.30	6.01
24.30	6.75
40.30	6.75
40.30	8.00
50.00	8.00

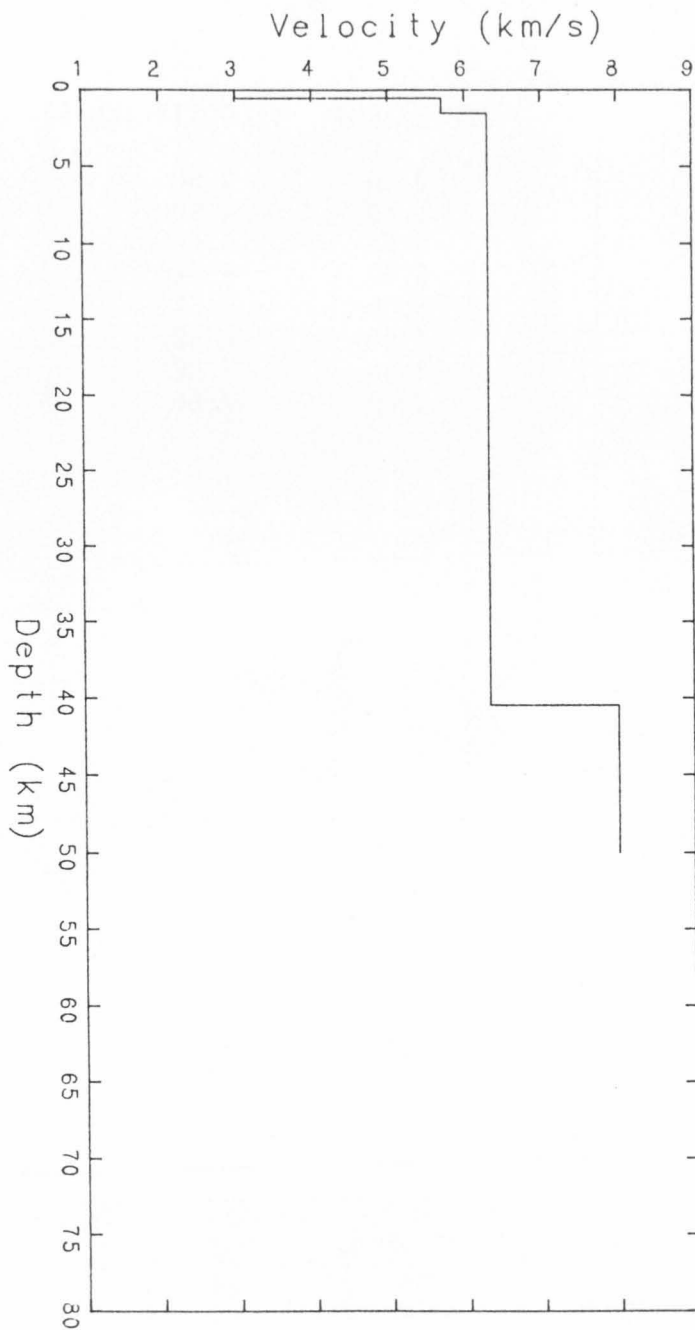


DEPTH (KM)	VELOCITY (KM/S)
0.00	6.00
40.00	6.00
40.00	8.27
140.00	8.27
140.00	8.85
150.00	8.85



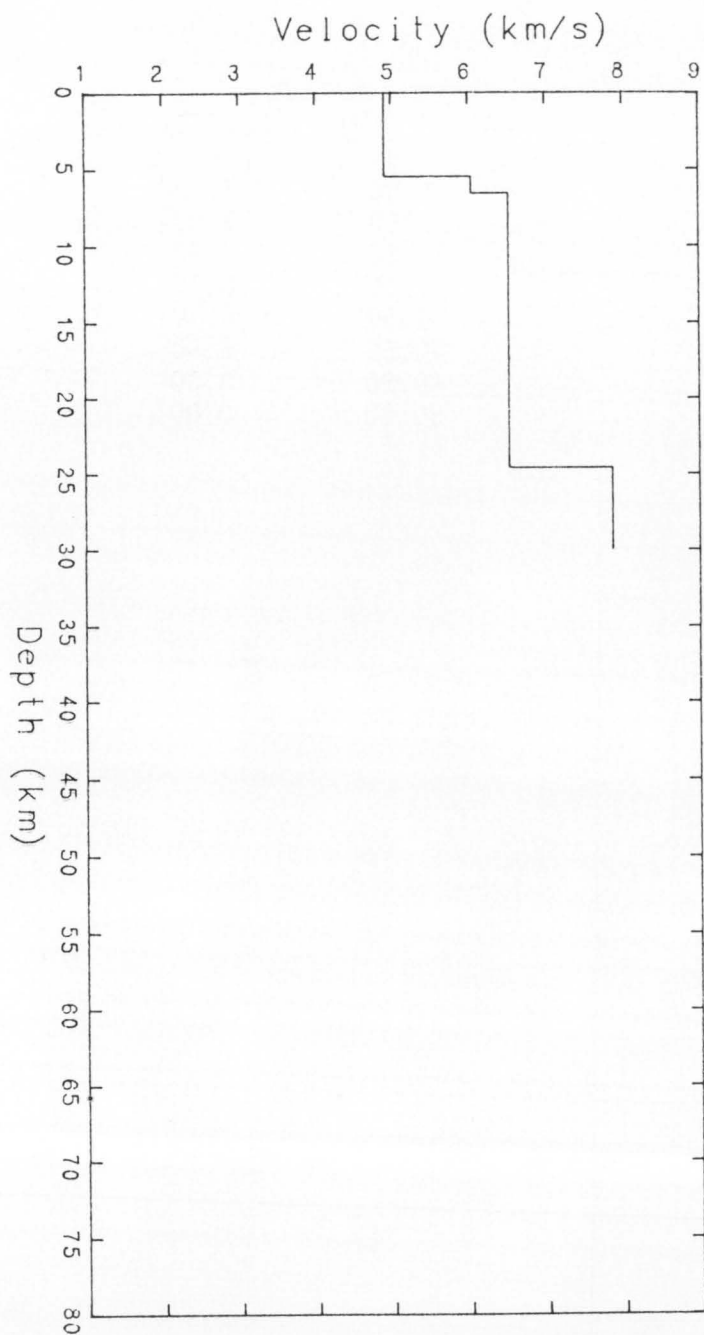
DEPTH (KM)	VELOCITY (KM/S)
0.00	3.00
.50	3.00
.50	5.70
1.50	5.70
1.50	6.30
36.50	6.30
36.50	8.16
50.00	8.16

PD002 - MARALINGA SOUTHEAST



DEPTH (KM)	VELOCITY (KM/S)
0.00	3.00
.50	3.00
.50	5.70
1.50	5.70
1.50	6.30
40.50	6.30
40.50	8.00
50.00	8.00

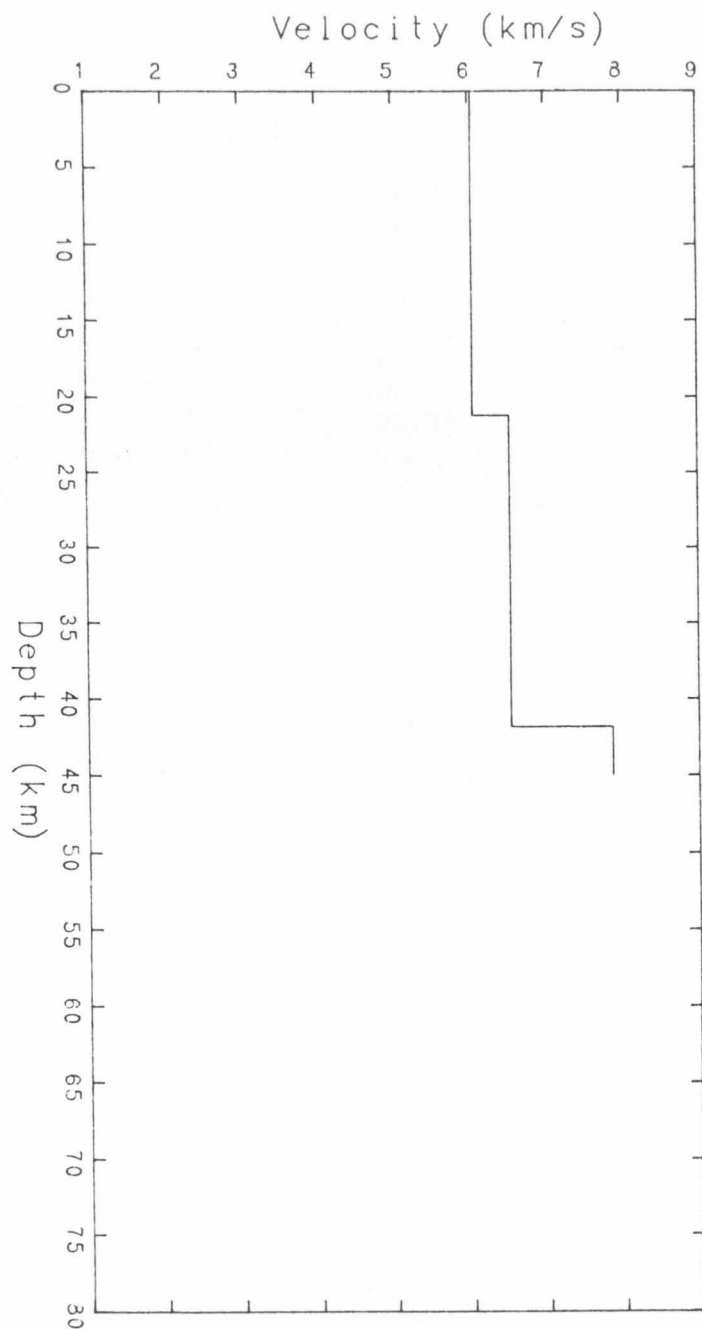
PD003 - MODEL C, SYDNEY REGION



DEPTH (KM) VELOCITY (KM/S)

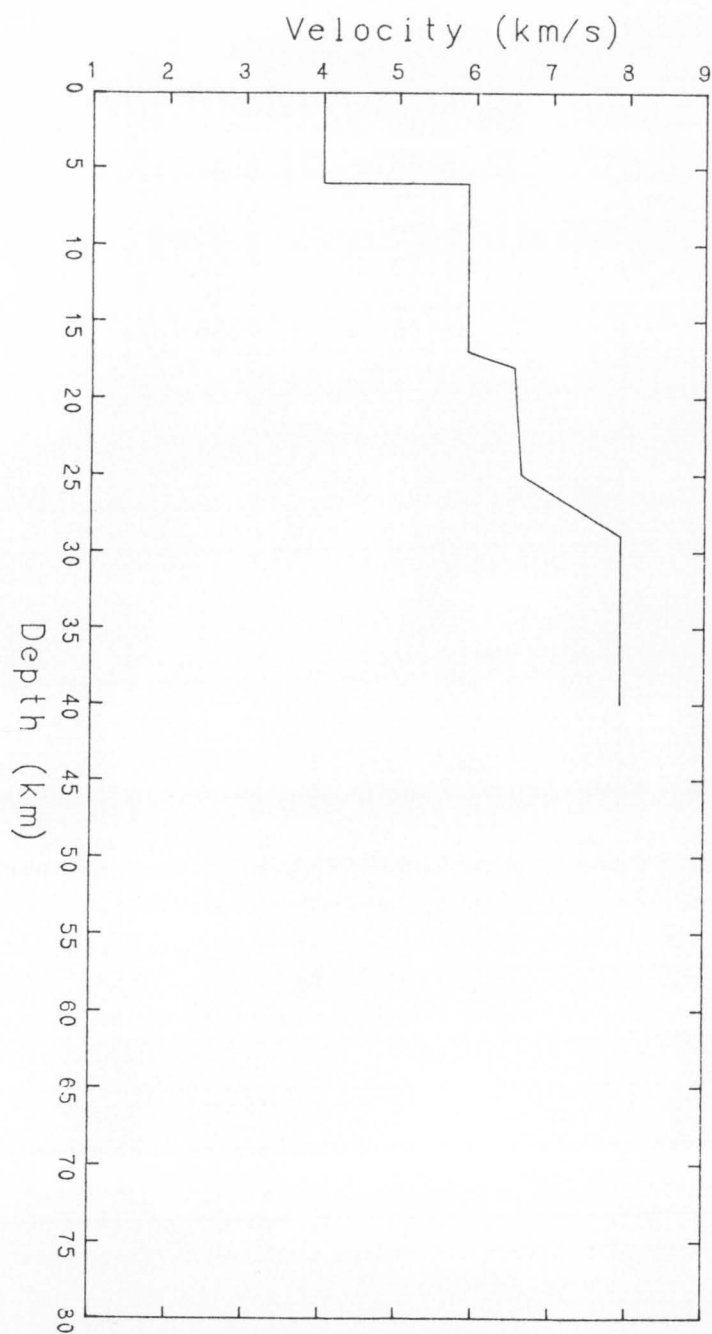
0.00	4.90
5.50	4.90
5.50	6.04
6.60	6.04
6.60	6.52
24.60	6.52
24.60	7.86
30.00	7.86

PD004 - MODEL C, SNOWY MOUNTAINS REGION



DEPTH (KM)	VELOCITY (KM/S)
0.00	6.04
21.20	6.04
21.20	6.52
41.80	6.52
41.80	7.86
45.00	7.86

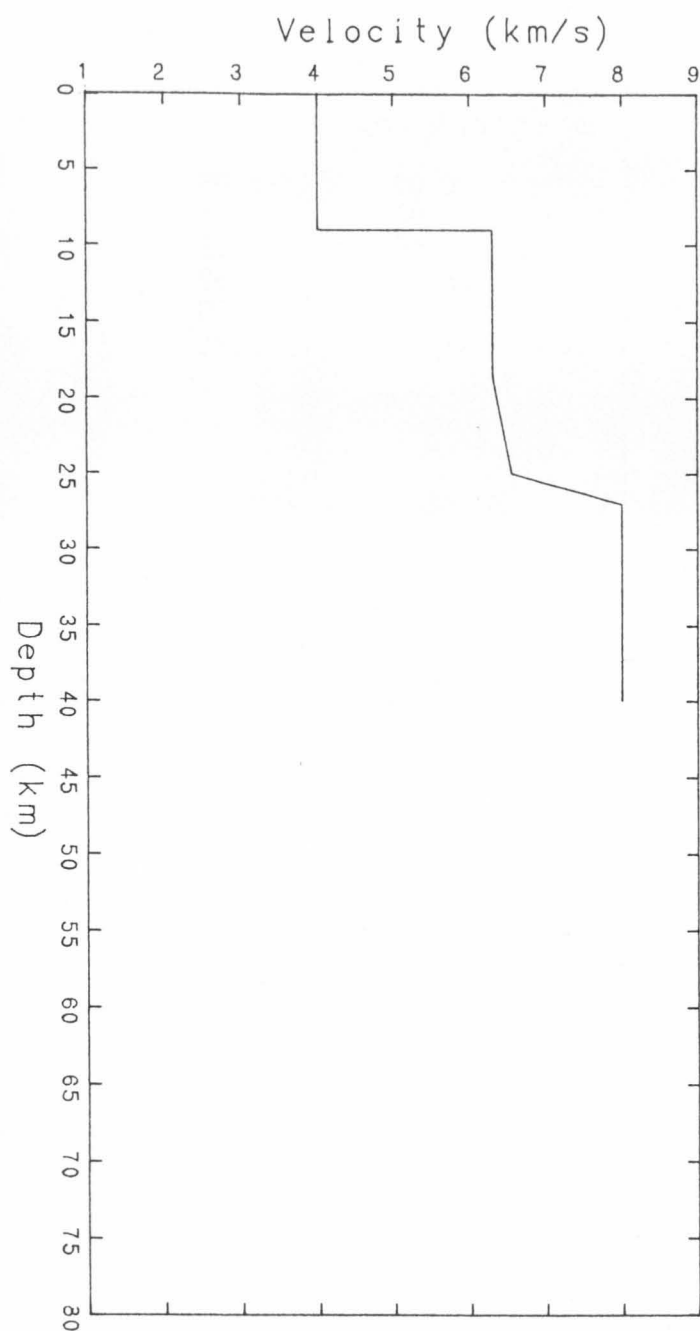
PDR01 - EAST PAPUA: KWIKILA NW ALONG COAST



DEPTH (KM) VELOCITY (KM/S)

0.00	4.00
6.00	4.00
6.00	5.90
17.00	5.90
18.00	6.50
25.00	6.60
29.00	7.90
40.00	7.90

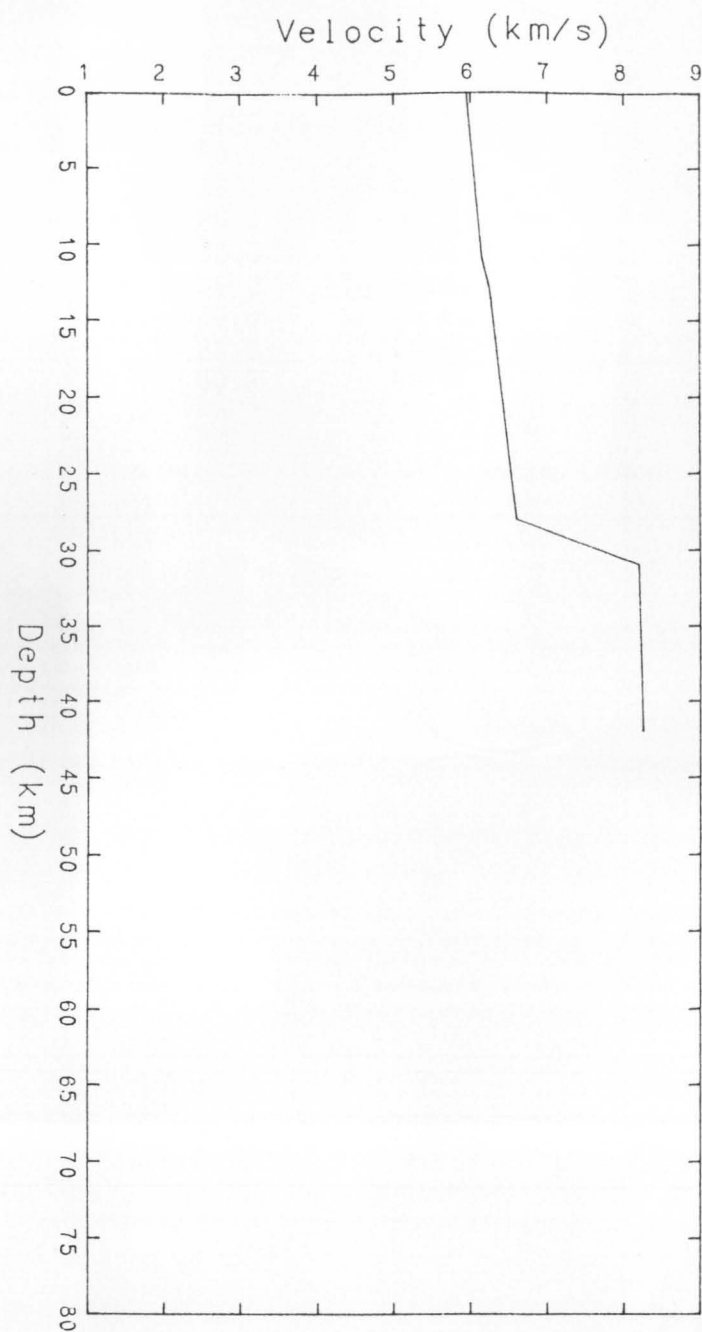
PDR02 - EAST PAPUA: AROA, KUBUNA, YULE IS. SE ALONG COAST

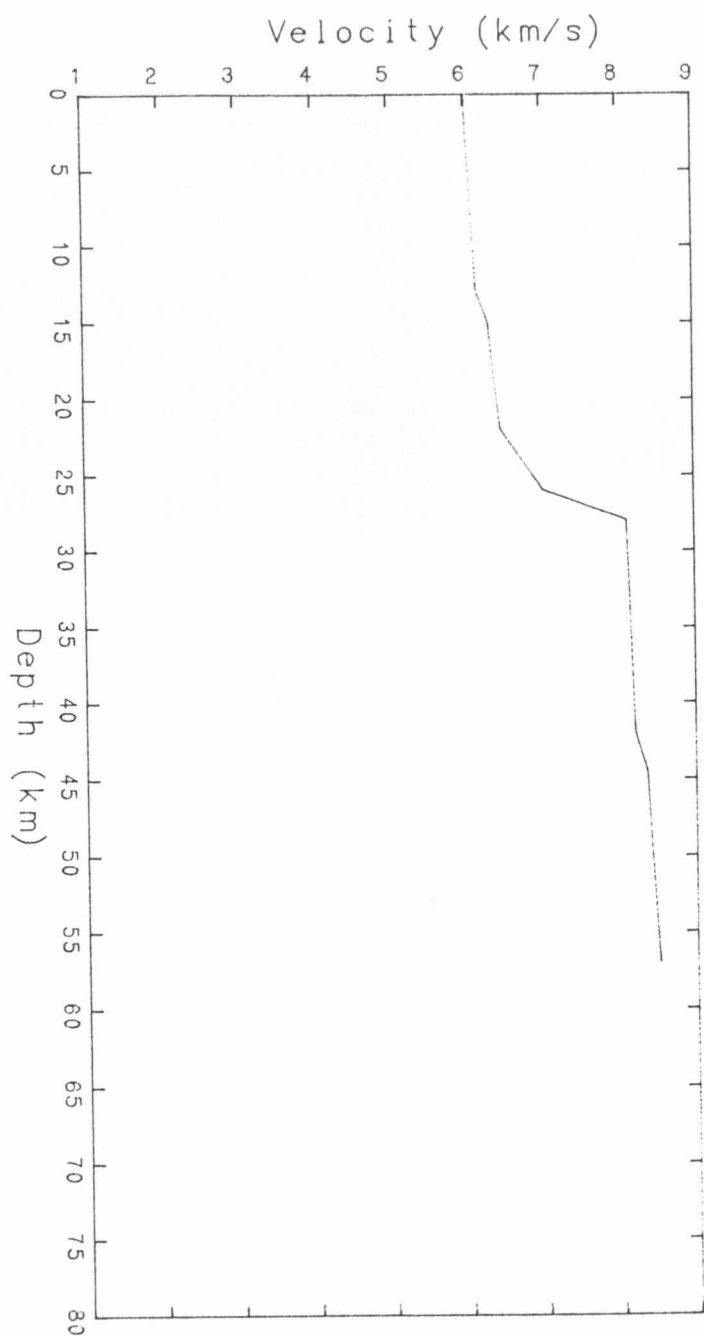


DEPTH (KM) VELOCITY (KM/S)

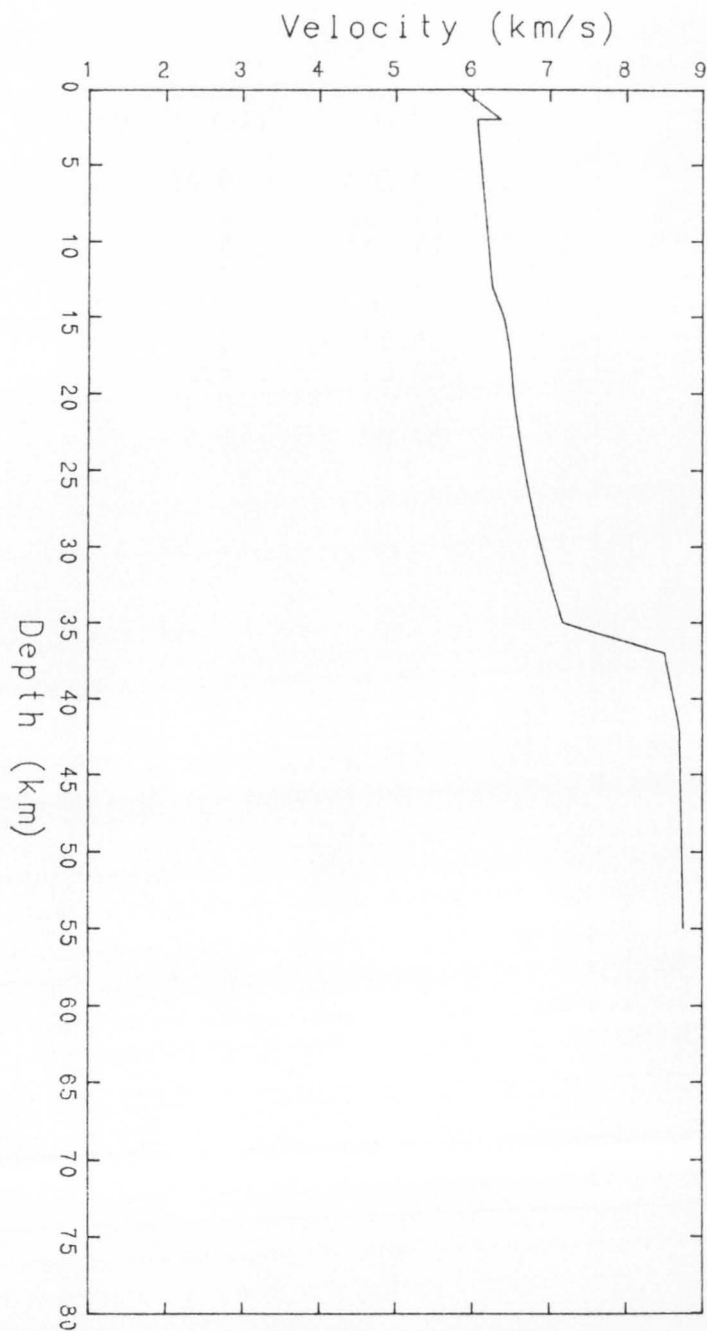
0.00	4.00
9.00	4.00
9.00	6.30
18.50	6.30
25.00	6.55
27.00	8.00
40.00	8.00

PDR03 - PILBARA - SUNRISE HILL, SHAY GAP

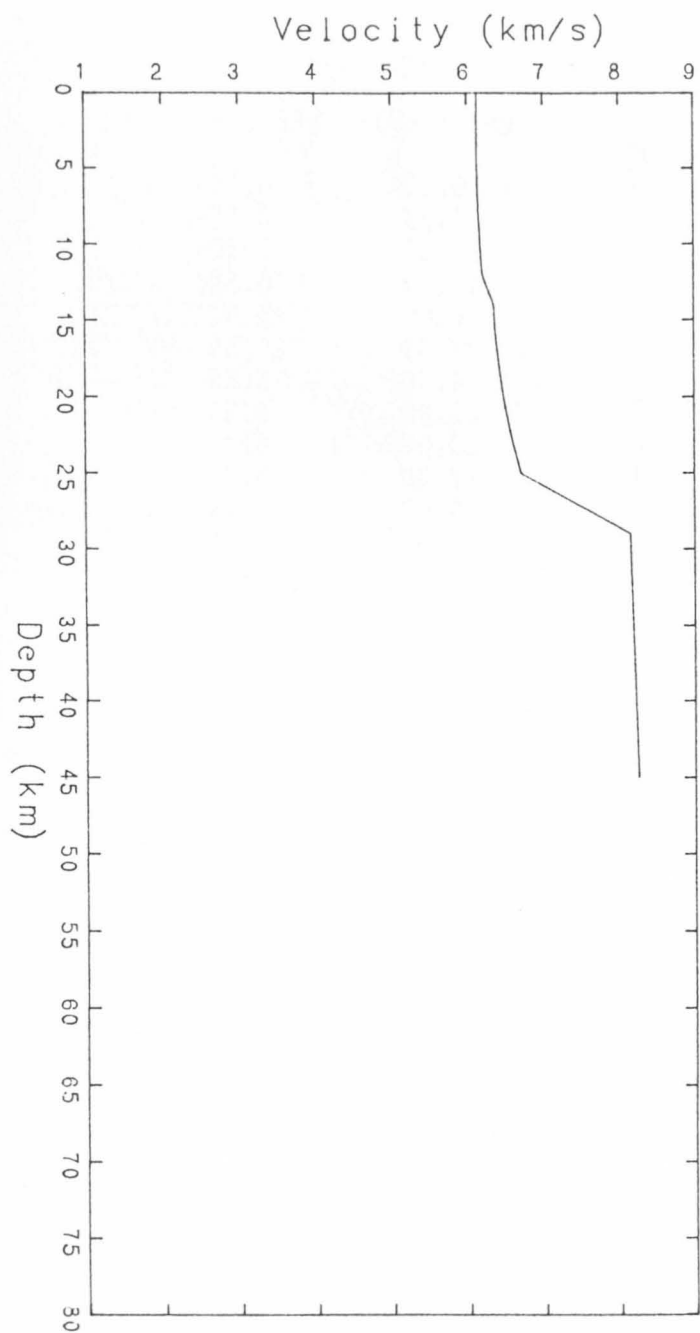




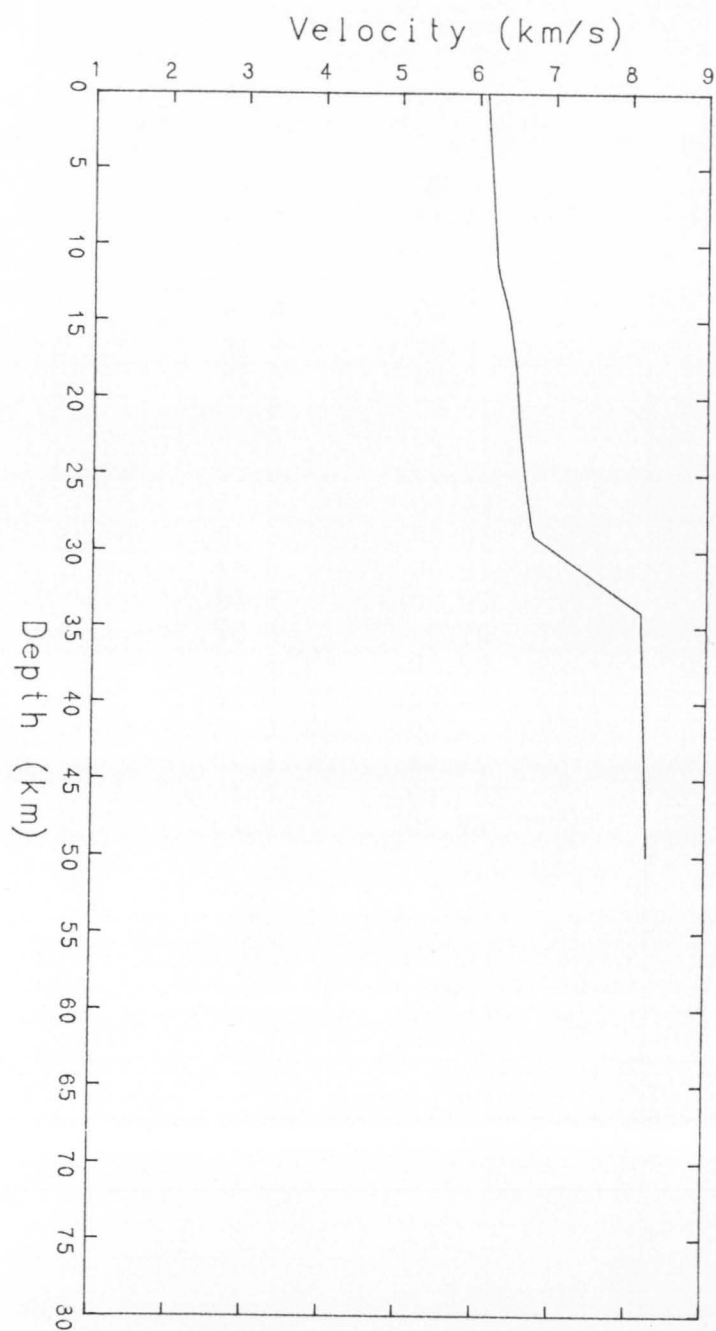
DEPTH (KM)	VELOCITY (KM/S)
0.00	6.01
13.00	6.15
15.00	6.30
22.00	6.45
26.00	7.00
28.00	8.10
42.00	8.20
44.50	8.35
57.00	8.50



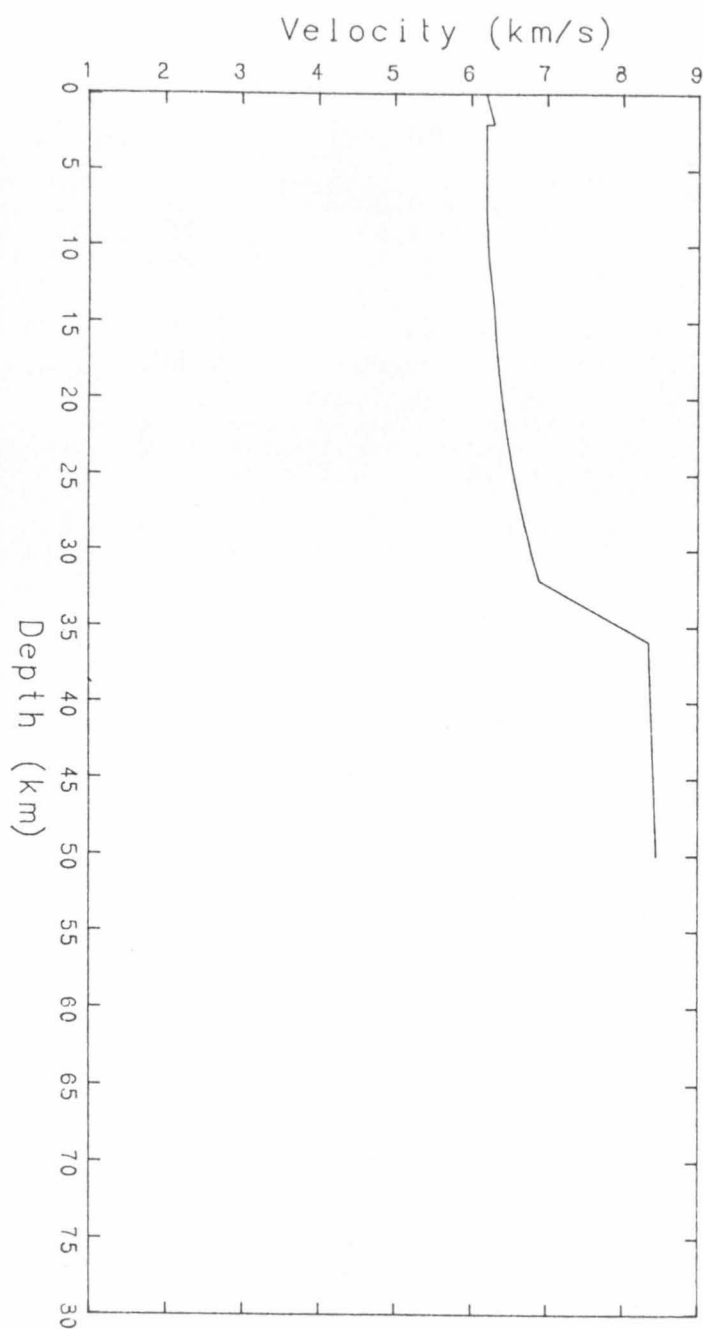
DEPTH (KM)	VELOCITY (KM/S)
0.00	5.86
2.00	6.35
2.00	6.05
13.00	6.25
15.00	6.40
17.00	6.48
18.50	6.50
20.00	6.53
22.00	6.58
24.00	6.65
26.00	6.72
28.00	6.80
29.00	6.85
30.00	6.90
31.00	6.95
32.00	7.00
33.00	7.06
34.00	7.12
35.00	7.18
37.00	8.50
42.00	8.70
55.00	8.75



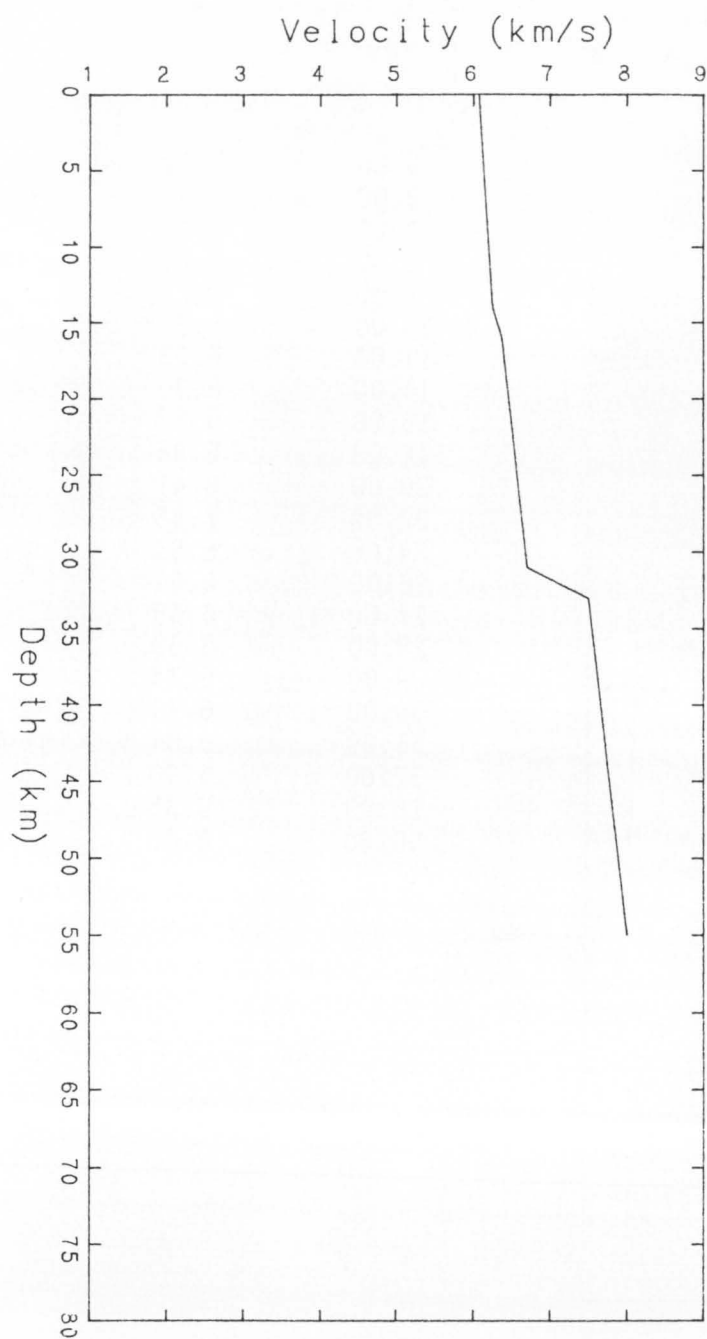
DEPTH (KM)	VELOCITY (KM/S)
0.00	6.13
2.00	6.13
3.00	6.13
5.00	6.14
6.00	6.14
8.00	6.16
9.00	6.16
10.00	6.17
11.00	6.19
12.00	6.20
14.00	6.35
16.00	6.38
18.00	6.42
20.00	6.48
21.00	6.52
22.00	6.56
23.00	6.60
24.00	6.65
25.00	6.70
29.00	8.15
45.00	8.25



DEPTH (KM)	VELOCITY (KM/S)
0.00	6.10
11.50	6.25
14.50	6.40
18.00	6.50
20.00	6.52
22.00	6.55
24.00	6.59
26.00	6.64
28.00	6.70
29.00	6.73
34.00	8.15
50.00	8.25

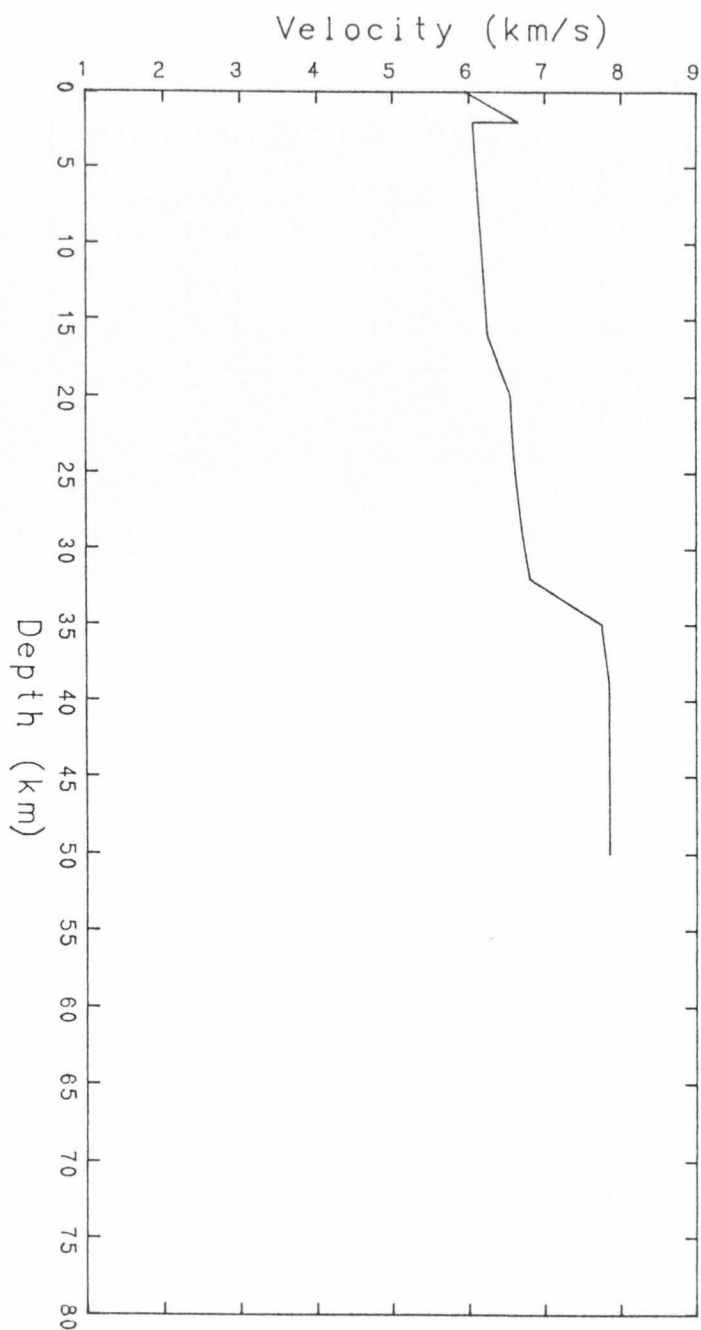


DEPTH (KM)	VELOCITY (KM/S)
0.00	6.19
2.00	6.30
2.00	6.19
8.00	6.20
9.00	6.21
10.00	6.22
11.00	6.23
14.00	6.30
16.00	6.32
18.00	6.36
20.00	6.41
22.00	6.46
24.00	6.53
26.00	6.61
27.00	6.65
28.00	6.69
29.00	6.74
30.00	6.79
31.00	6.84
32.00	6.90
36.00	8.35
50.00	8.45

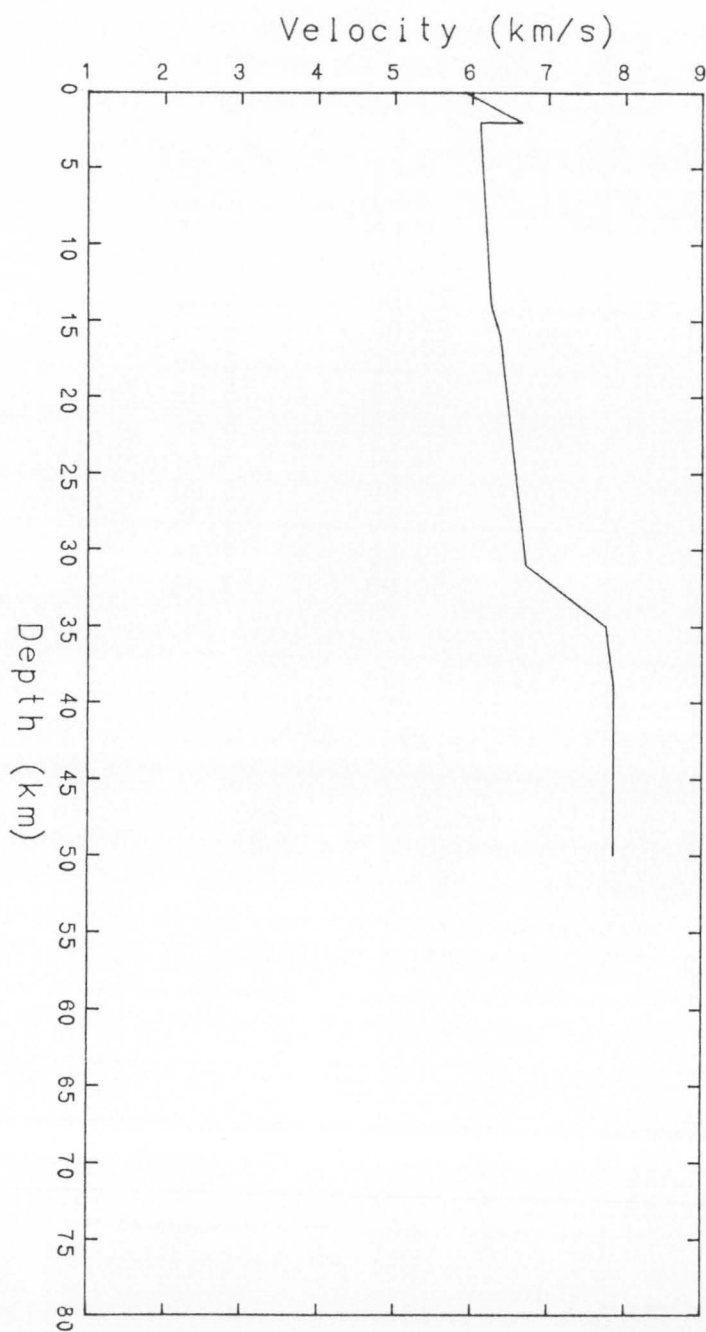


DEPTH (KM) VELOCITY (KM/S)

0.00	6.07
14.00	6.25
16.00	6.37
31.00	6.70
33.00	7.50
55.00	8.00

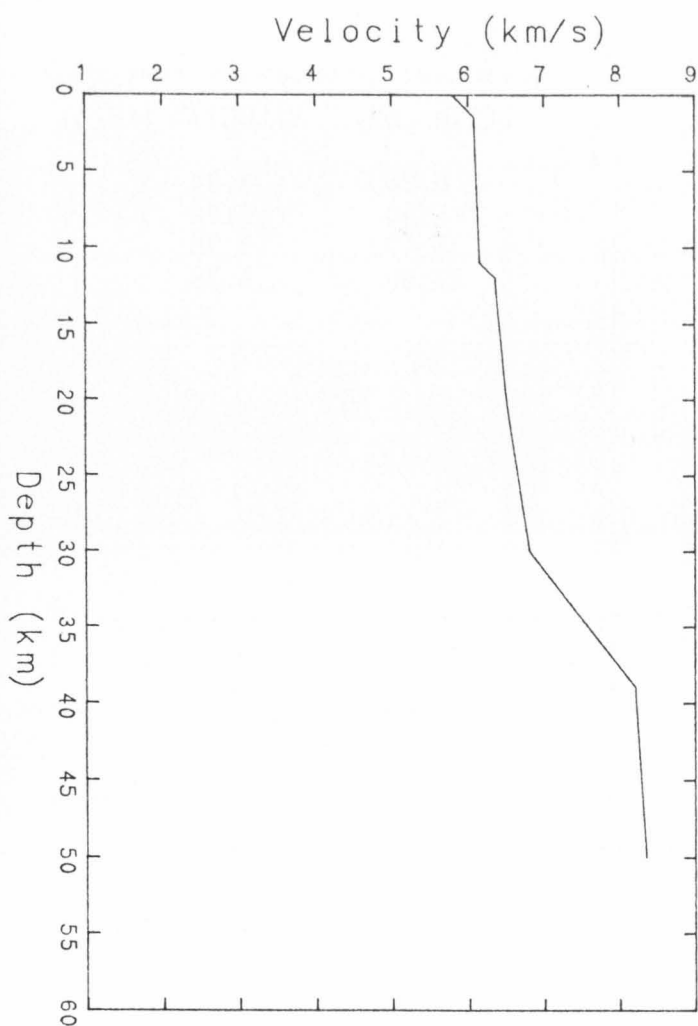


DEPTH (KM)	VELOCITY (KM/S)
0.00	5.95
2.00	6.65
2.00	6.05
16.00	6.25
20.00	6.55
22.00	6.56
24.00	6.59
26.00	6.63
28.00	6.67
30.00	6.73
32.00	6.80
35.00	7.75
39.00	7.85
50.00	7.85



DEPTH (KM)	VELOCITY (KM/S)
0.00	5.90
2.00	6.65
2.00	6.10
14.00	6.25
16.00	6.37
31.00	6.70
35.00	7.75
39.00	7.85
50.00	7.85

PDR12 - YILGARN - KOOLYANOBING TO COLLIE (BOA) - PRELIMINARY



DEPTH (KM) VELOCITY (KM/S)

0.00 5.80

1.45 6.08

11.00 6.15

12.00 6.35

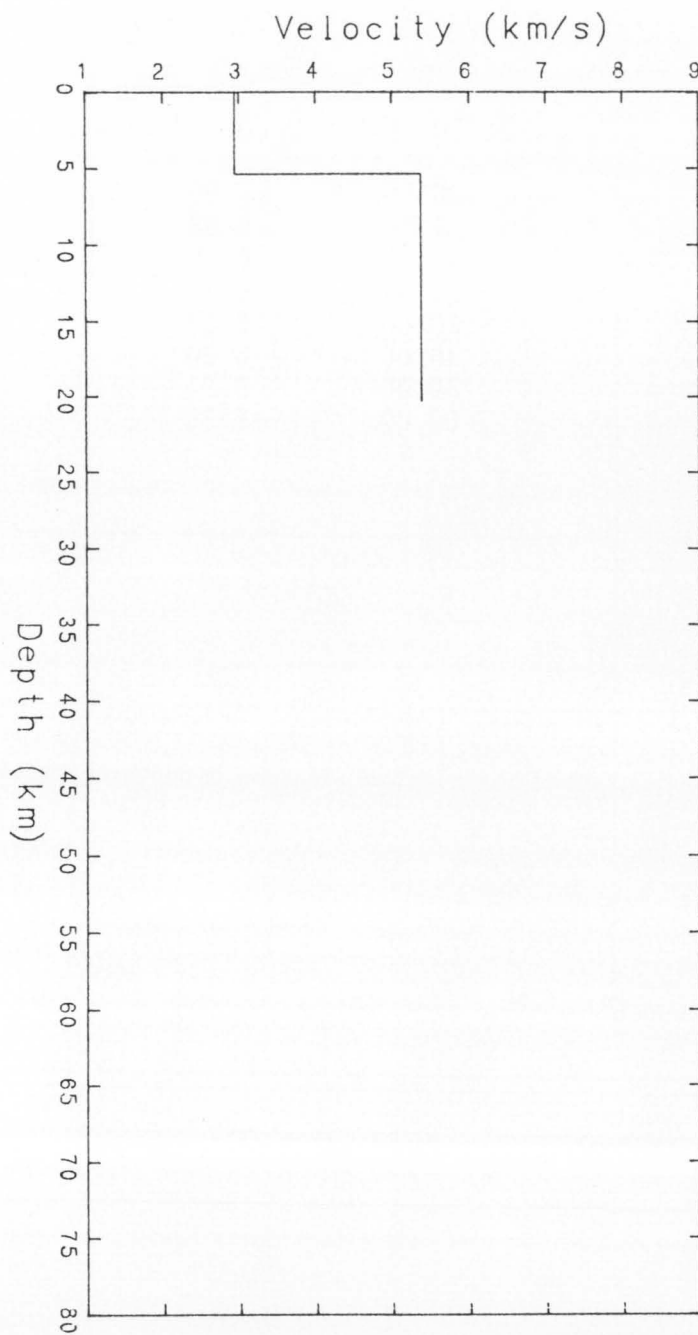
20.00 6.50

30.00 6.80

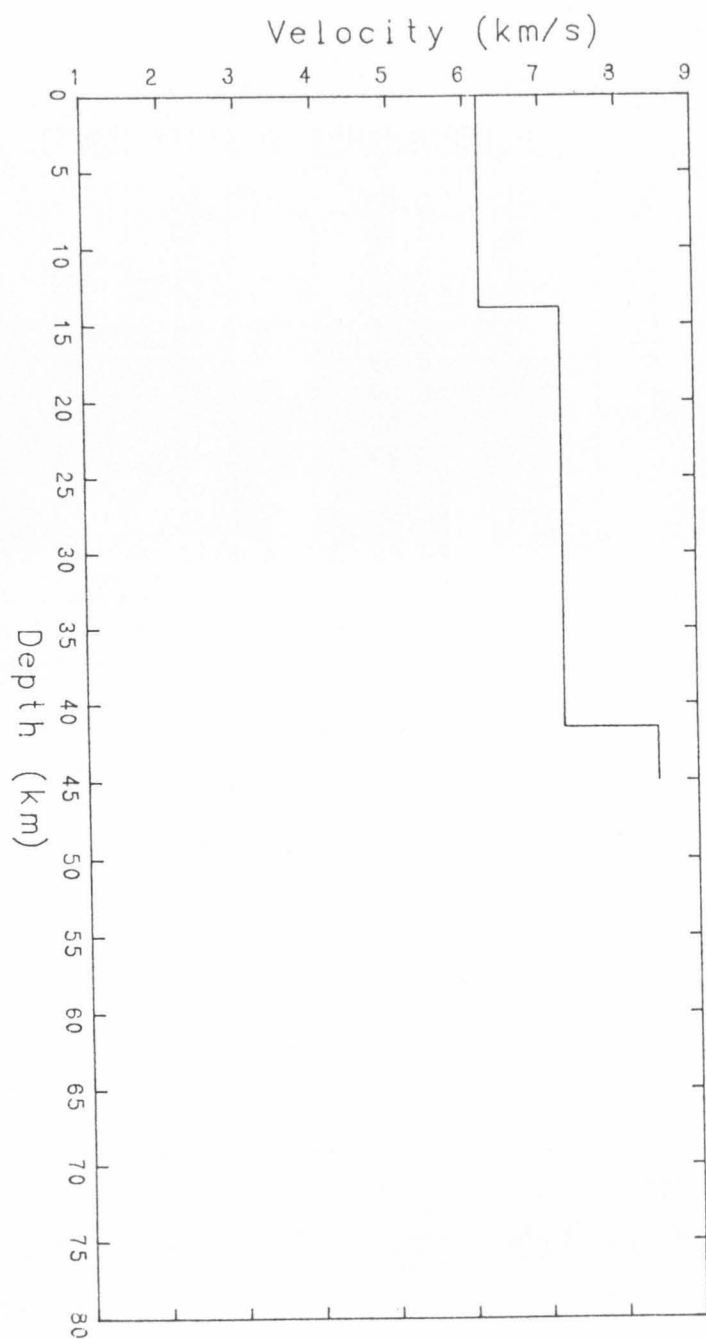
39.00 8.21

50.00 8.35

PEV01 - PERTII BASIN

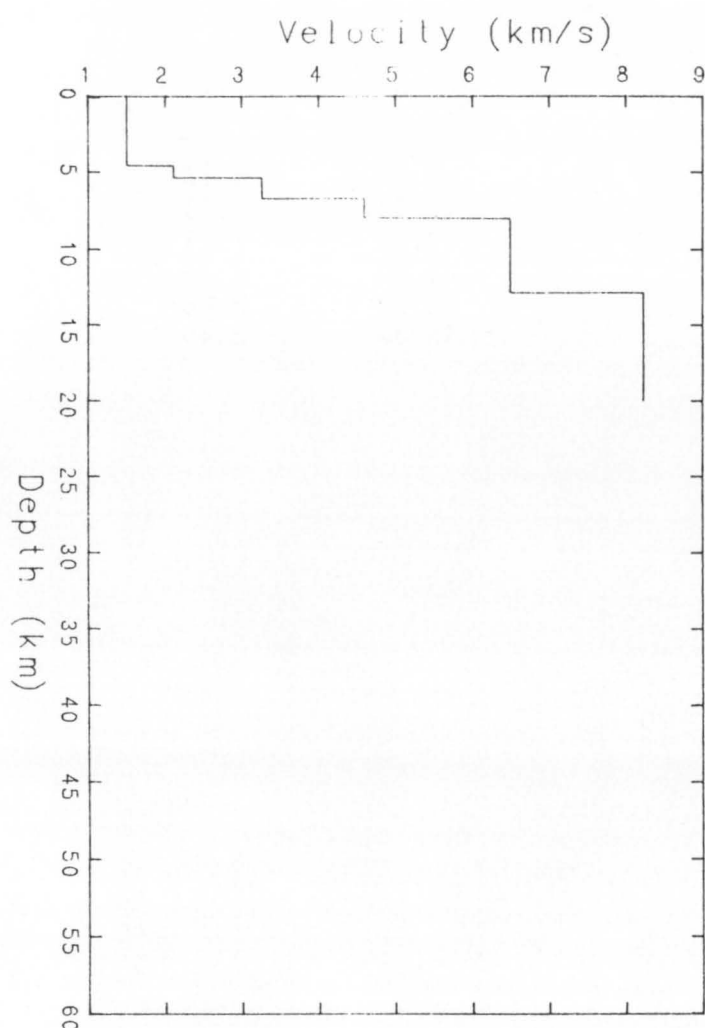


DEPTH (KM)	VELOCITY (KM/S)
0.00	2.94
5.40	2.94
5.40	5.38
20.30	5.38

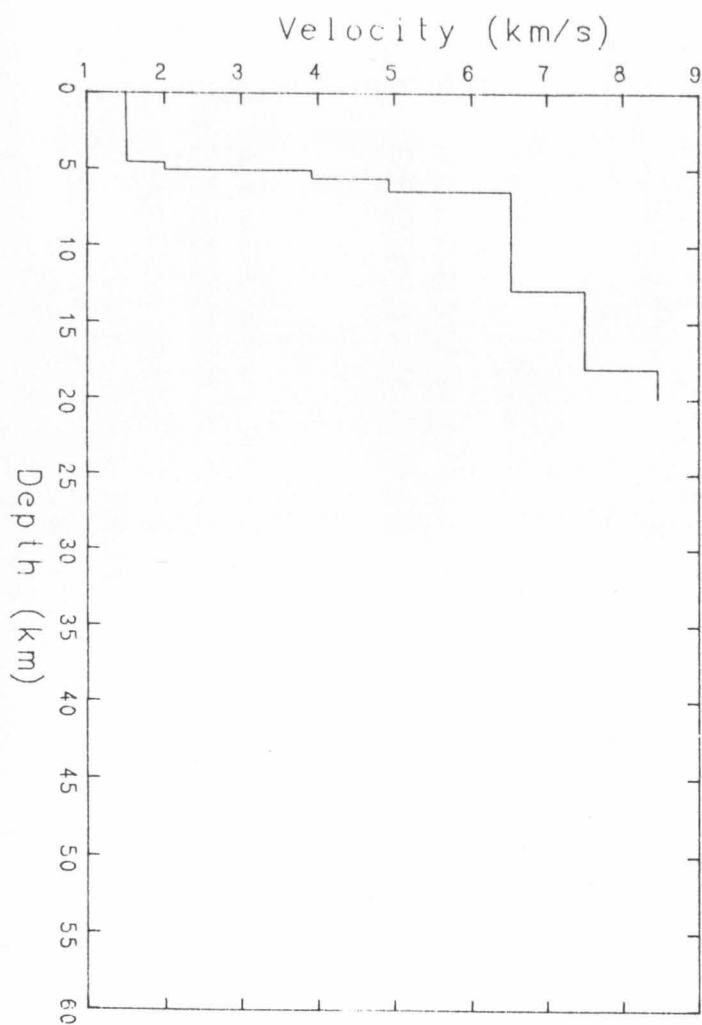


DEPTH (KM)	VELOCITY (KM/S)
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0.00	6.18
13.90	6.18
13.90	7.24
41.50	7.24
41.50	8.48
45.00	8.48

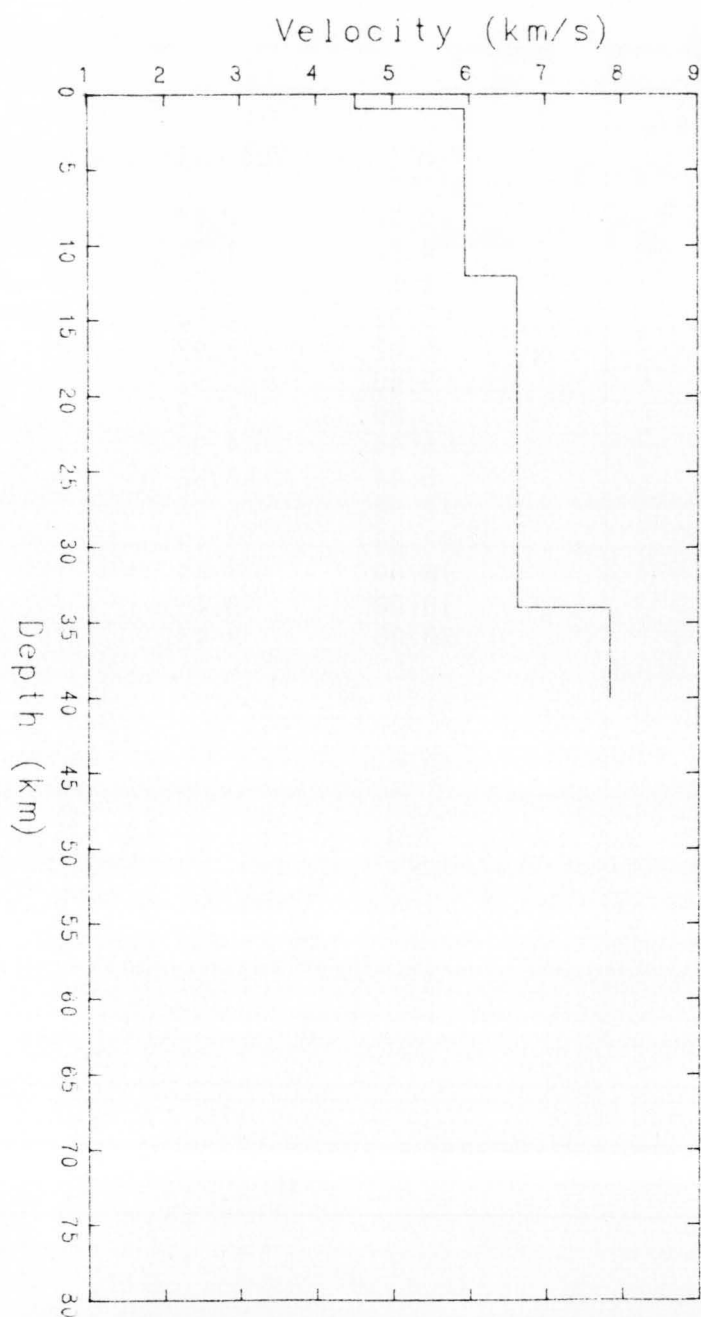


DEPTH (KM)	VELOCITY (KM/S)
0.00	1.50
4.53	1.50
4.53	2.11
5.35	2.11
5.35	3.26
6.69	3.26
6.69	4.59
7.99	4.59
7.99	6.49
12.87	6.49
12.87	8.23
20.00	8.23



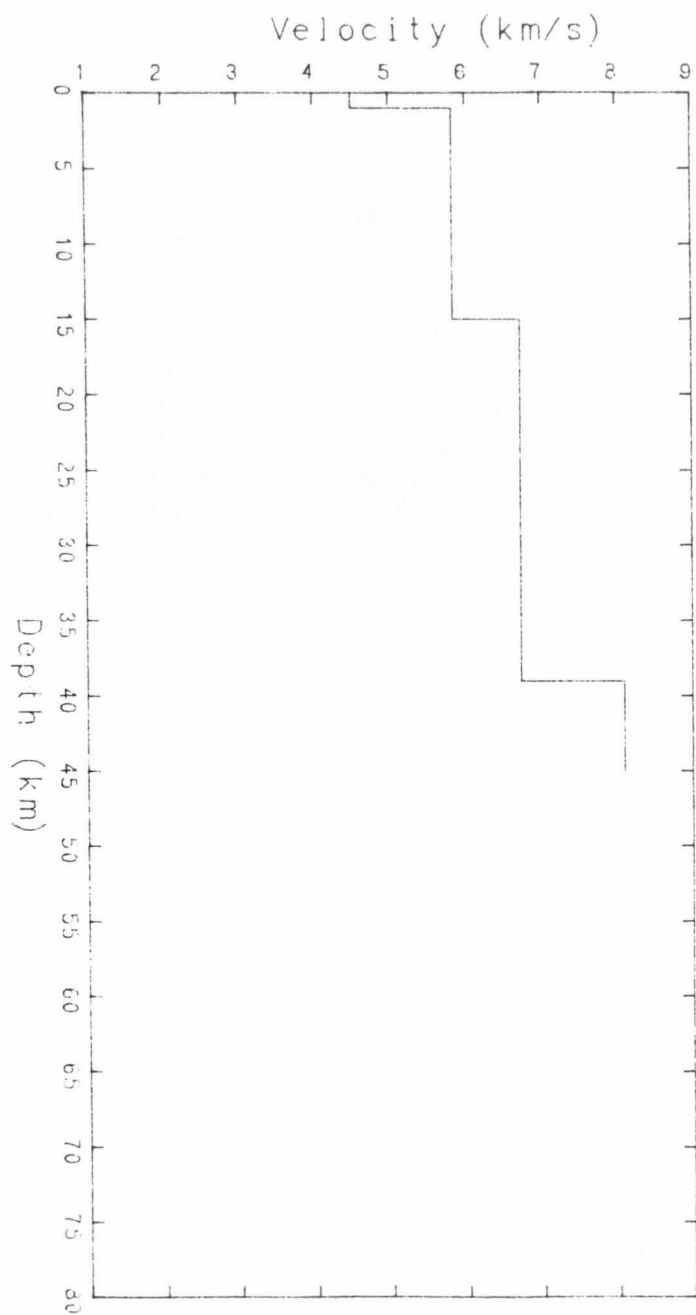
DEPTH (KM)	VELOCITY (KM/S)
0.00	1.50
4.56	1.51
4.56	2.00
5.02	2.00
5.02	3.92
5.60	3.92
5.60	4.92
6.44	4.92
6.44	6.52
12.88	6.52
12.88	7.49
18.00	7.49
18.00	8.45
20.00	8.45

PFI01- CARPENTARIA REGION (CRUMP) - SOUTH



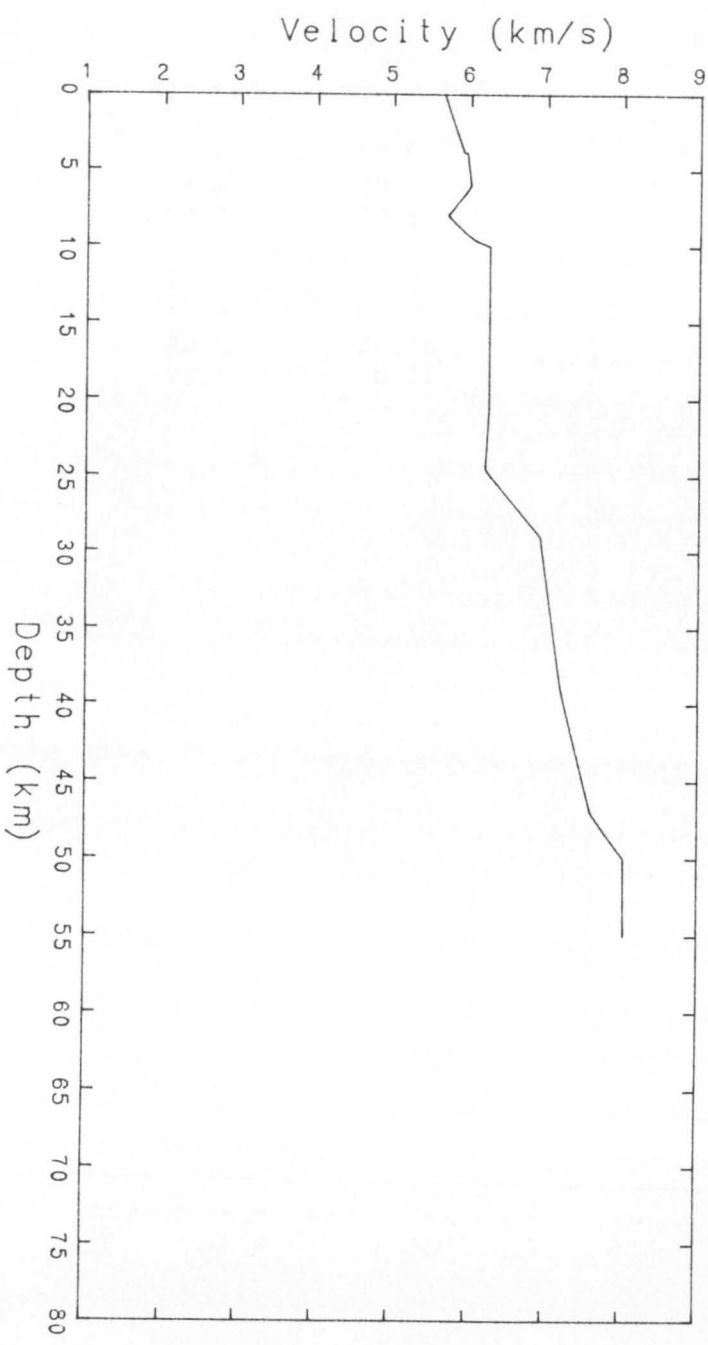
DEPTH (KM)	VELOCITY (KM/S)
0.00	4.50
1.00	4.50
1.00	5.94
12.00	5.94
12.00	6.62
34.00	6.62
34.00	7.84
40.00	7.84

PFI02 - CARPENTARIA REGION (CRUMP) - NORTH

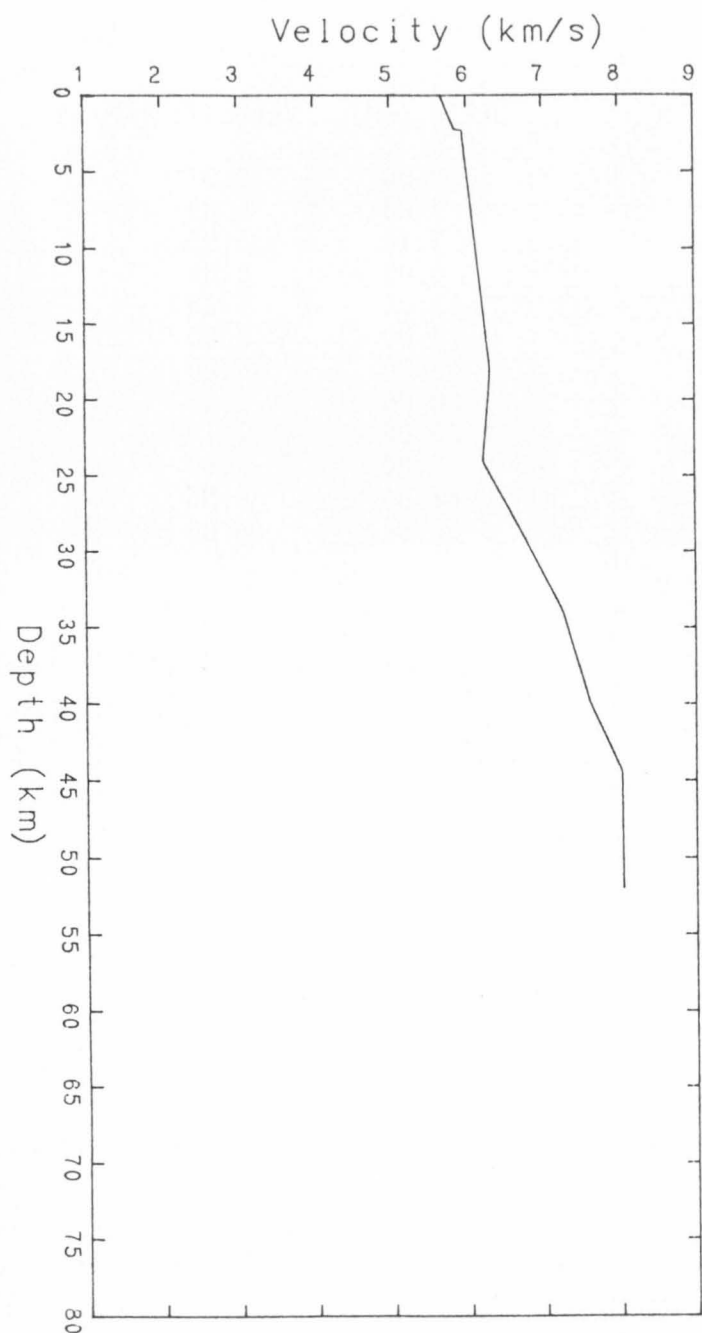


DEPTH (KM)	VELOCITY (KM/S)
0.00	4.50
1.00	4.50
1.00	5.82
15.00	5.82
15.00	6.71
39.00	6.71
39.00	8.09
45.00	8.09

PFI03 - S.E. AUST: DARTMOUTH TO MERIMBULA

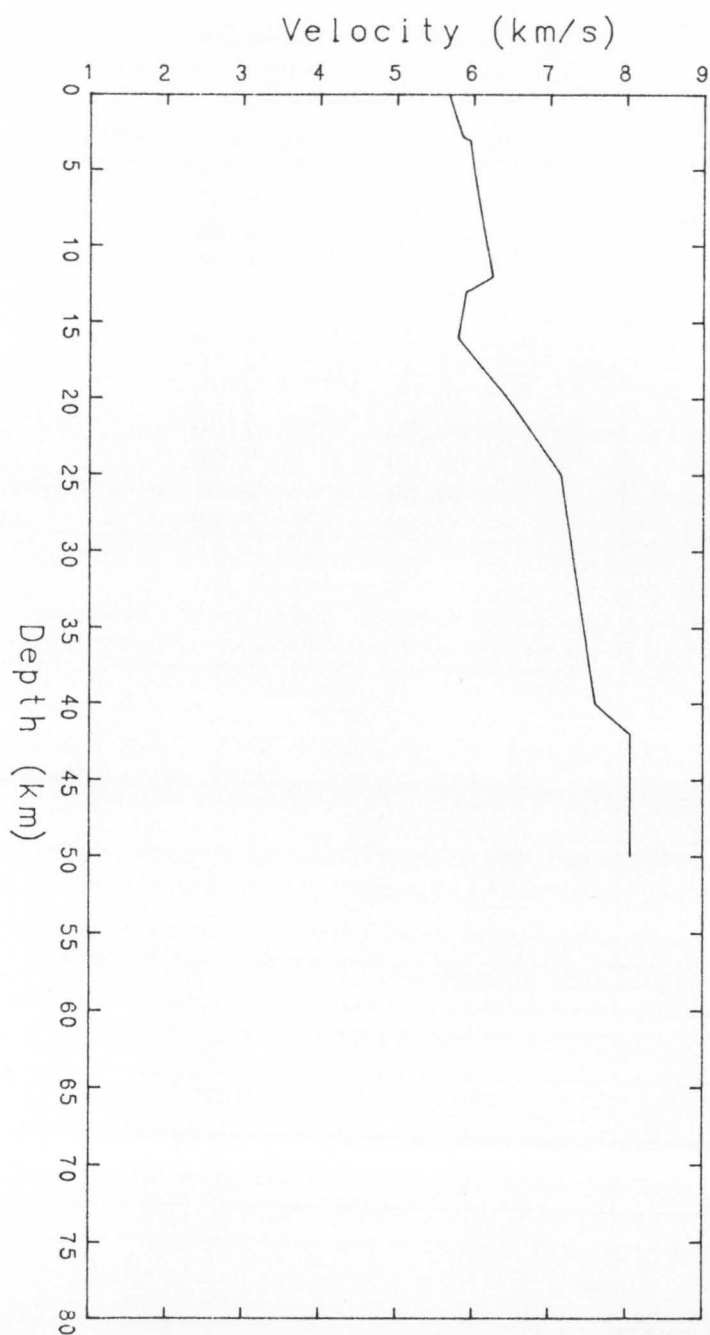


DEPTH (KM)	VELOCITY (KM/S)
0.00	5.65
3.80	5.90
3.90	5.95
6.00	6.00
8.00	5.70
9.50	6.02
10.00	6.25
20.50	6.25
24.50	6.20
29.00	6.93
39.00	7.20
47.00	7.60
50.00	8.03
55.00	8.04

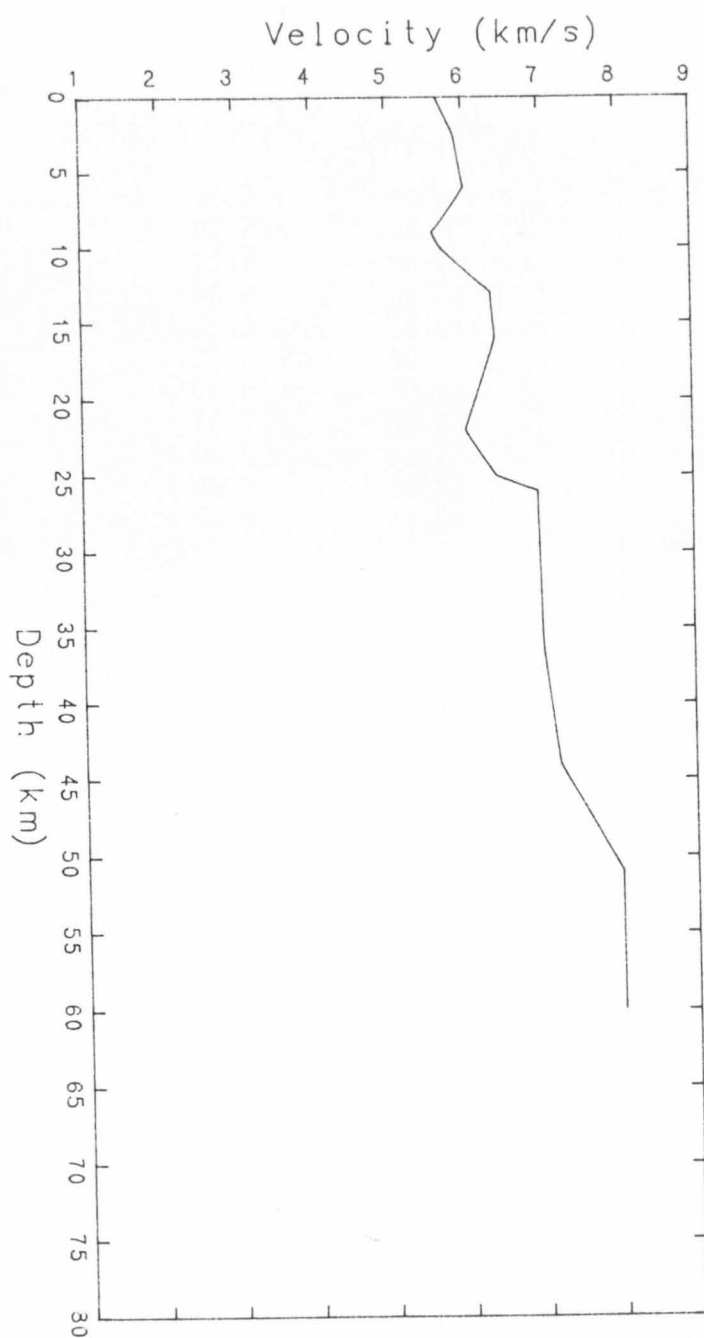


DEPTH (KM)	VELOCITY (KM/S)
0.00	5.67
2.20	5.85
2.30	5.95
18.00	6.30
24.00	6.20
27.50	6.58
34.00	7.25
40.00	7.60
42.00	7.80
44.50	8.02
52.00	8.03

PFI05 - S.E. AUST: DARTMOUTH TO CONDOBLIN

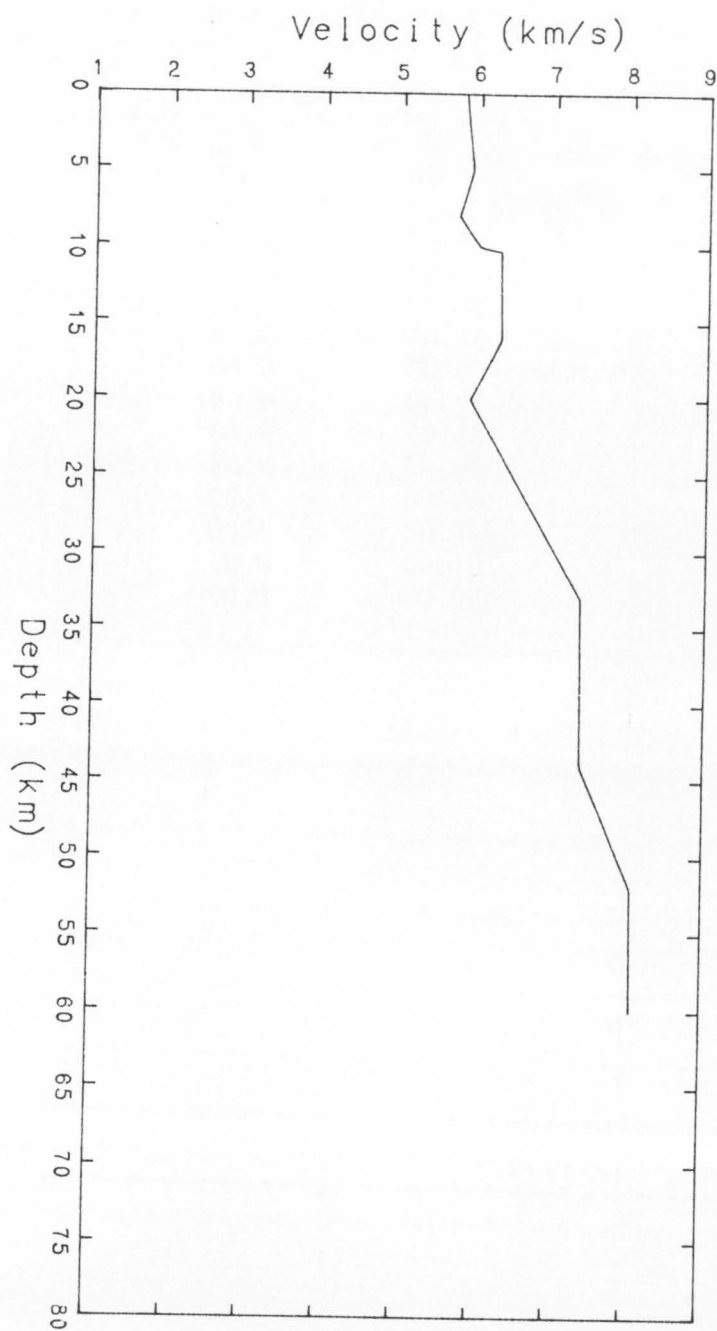


DEPTH (KM)	VELOCITY (KM/S)
0.00	5.67
2.80	5.85
3.10	5.95
6.00	6.03
12.00	6.25
13.00	5.90
16.00	5.80
20.00	6.45
25.00	7.15
40.00	7.60
42.00	8.05
50.00	8.06



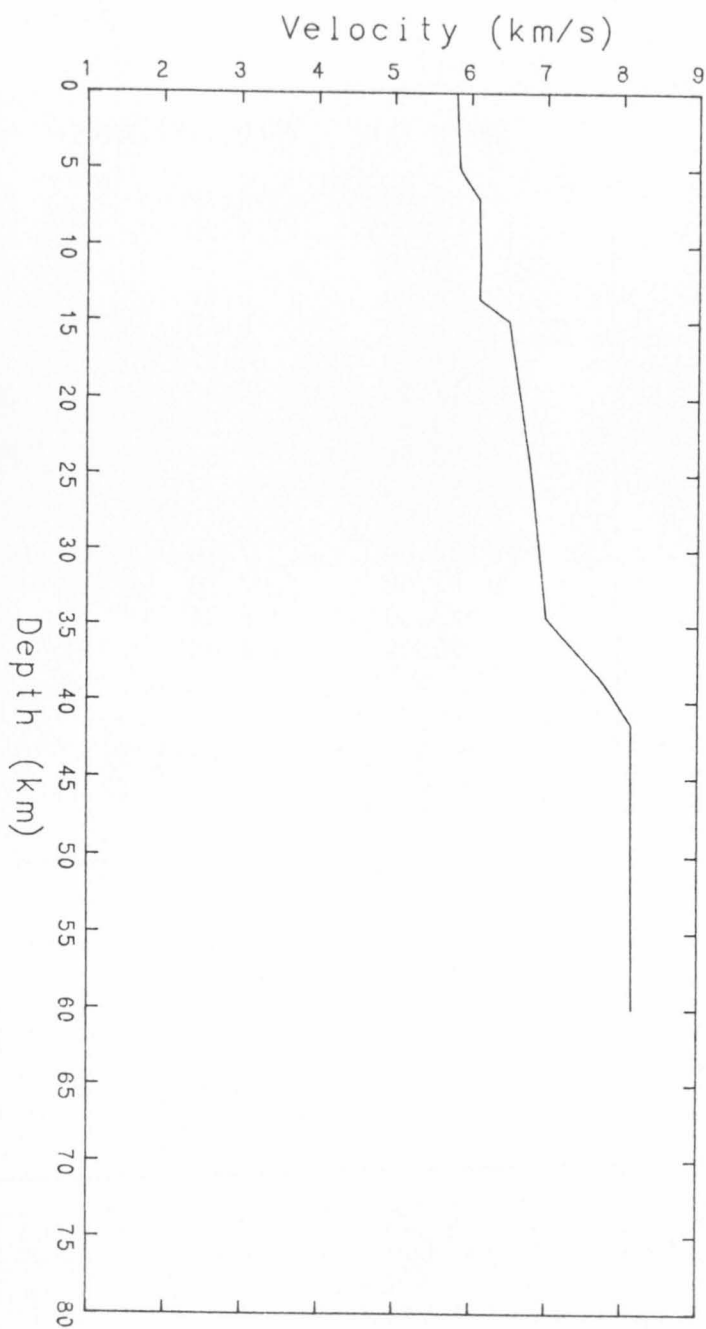
DEPTH (KM)	VELOCITY (KM/S)
0.00	5.67
2.50	5.90
6.00	6.02
9.00	5.60
10.00	5.70
13.00	6.35
16.00	6.40
22.00	6.00
25.00	6.40
26.00	6.95
36.00	7.00
44.00	7.20
51.00	8.01
60.00	8.02

PFI07 - S.E. AUST: DARTMOUTH TO MARULAN

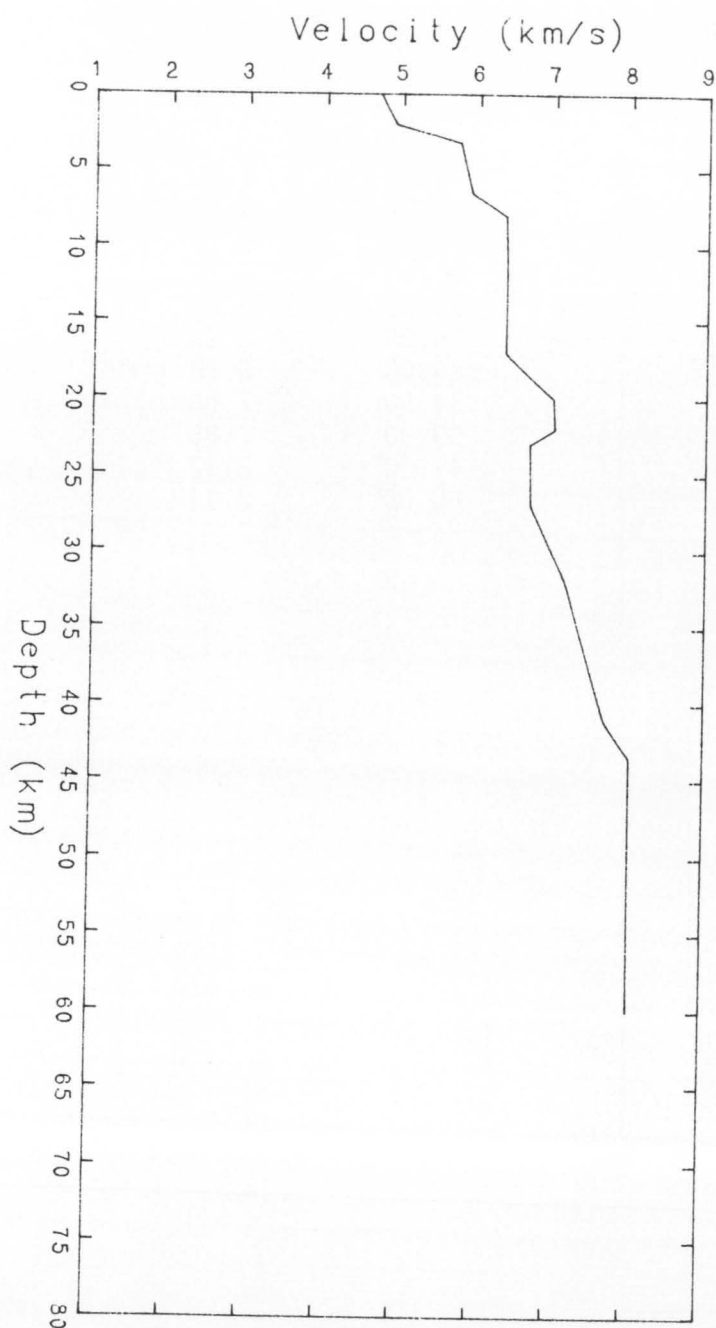


DEPTH (KM) VELOCITY (KM/S)

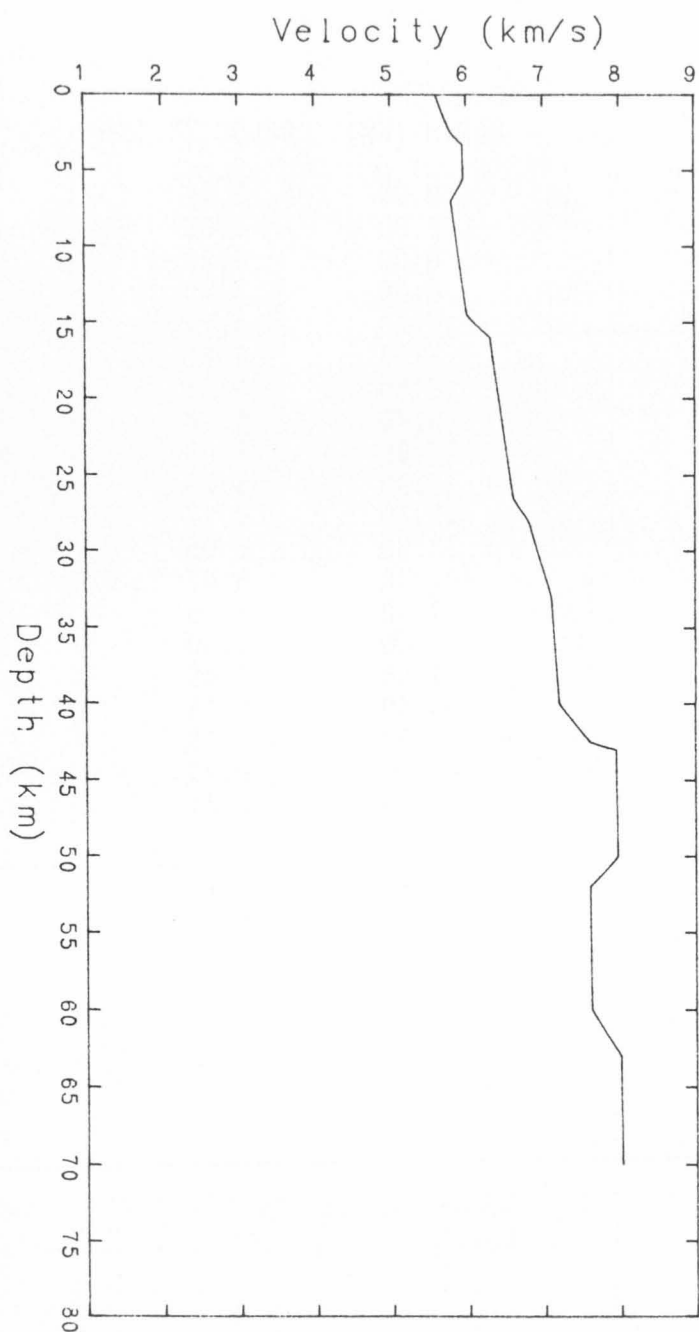
0.00	5.80
5.00	5.90
8.00	5.72
10.00	6.00
10.30	6.28
16.00	6.30
20.00	5.90
33.00	7.37
44.00	7.40
52.00	8.08
60.00	8.09



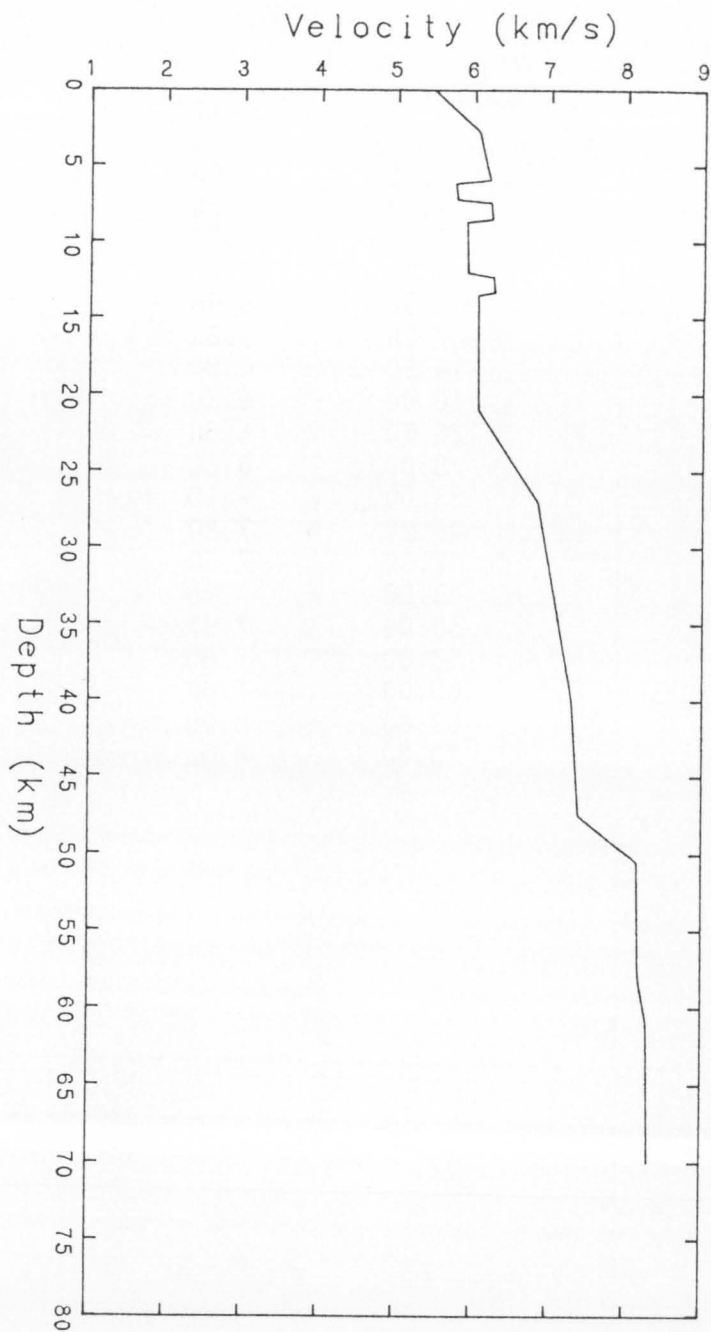
DEPTH (KM)	VELOCITY (KM/S)
0.00	5.80
5.00	5.85
7.00	6.10
11.00	6.12
13.50	6.10
15.00	6.50
25.00	6.80
34.50	7.00
39.00	7.80
41.50	8.12
60.00	8.14



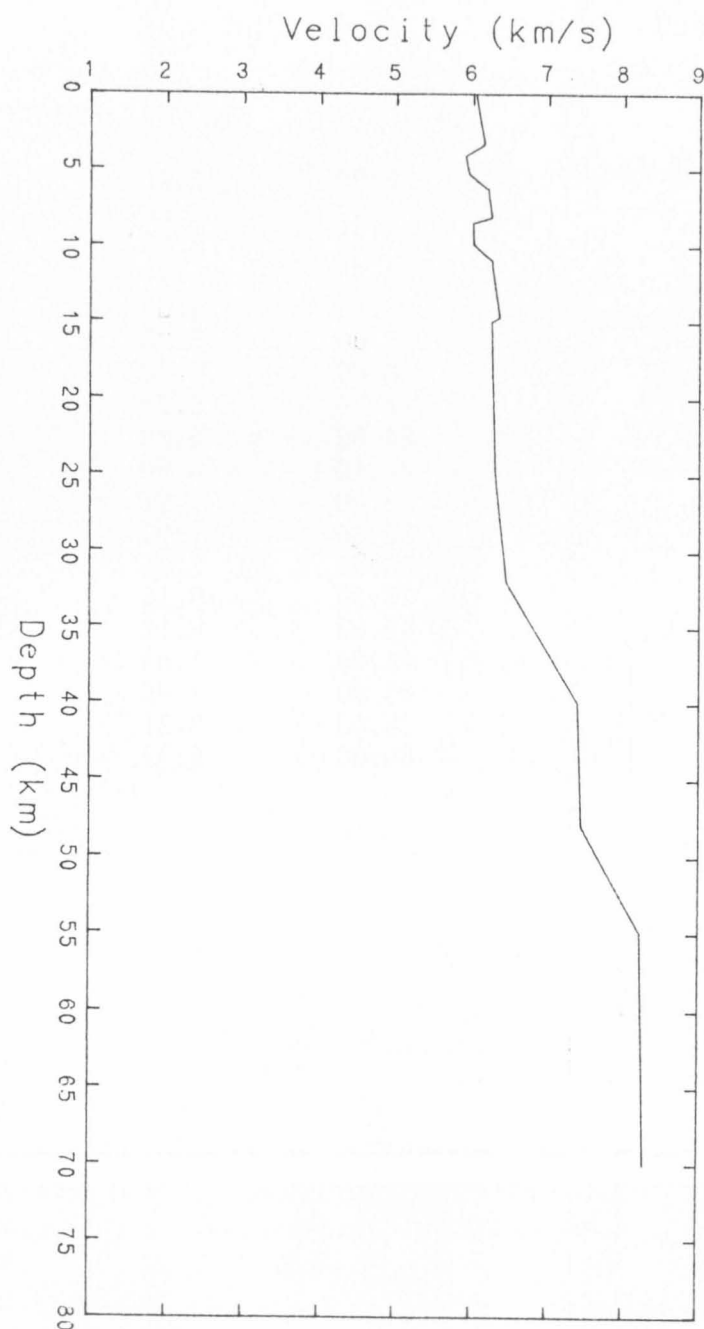
DEPTH (KM)	VELOCITY (KM/S)
0.00	4.70
2.00	4.90
3.20	5.75
6.50	5.90
8.00	6.35
11.00	6.37
17.00	6.36
20.00	7.00
22.00	7.02
23.00	6.70
27.00	6.72
32.00	7.18
41.00	7.70
43.50	8.04
60.00	8.05



DEPTH (KM)	VELOCITY (KM/S)
0.00	5.60
2.00	5.75
2.50	5.80
3.30	5.95
5.50	5.96
7.00	5.80
14.50	6.00
16.00	6.30
26.50	6.60
28.00	6.80
33.00	7.10
40.00	7.20
42.50	7.60
43.00	7.95
50.00	7.97
52.00	7.60
60.00	7.62
63.00	8.00
70.00	8.02



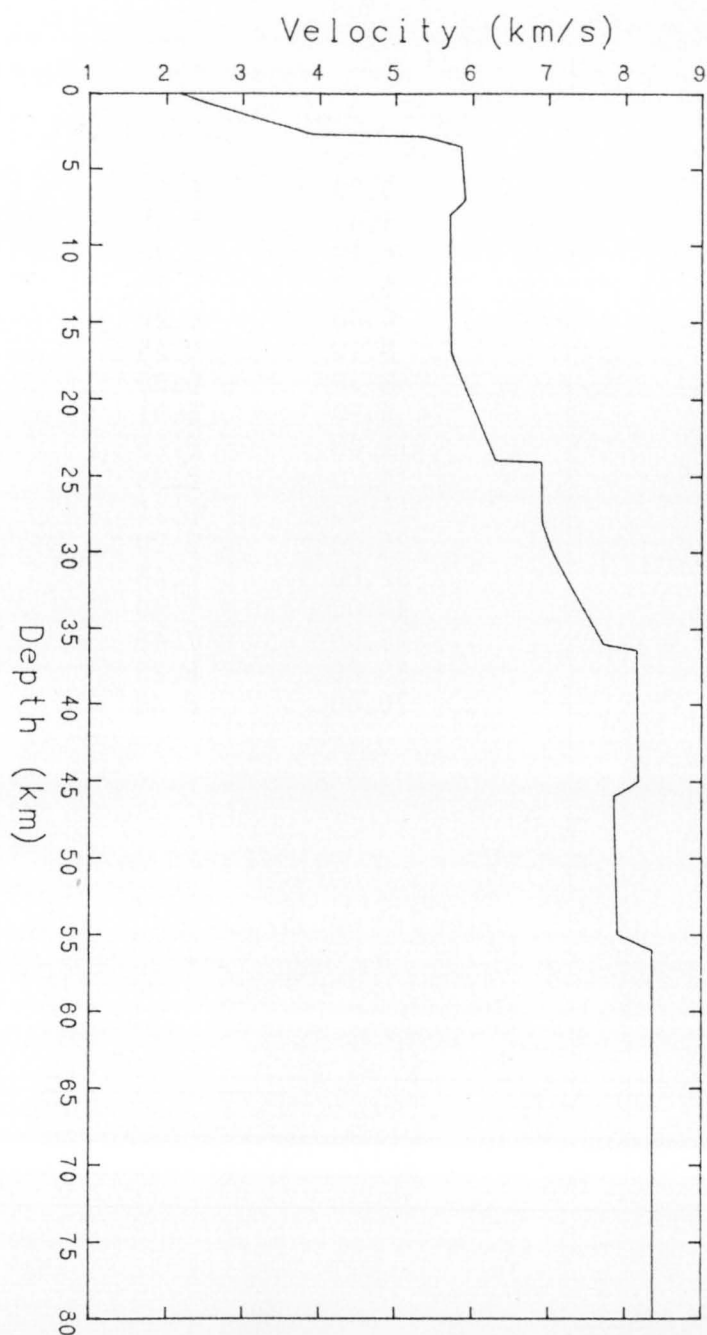
DEPTH (KM)	VELOCITY (KM/S)
0.00	5.47
2.80	6.06
6.00	6.20
6.20	5.75
7.20	5.77
7.40	6.21
8.50	6.23
8.70	5.90
12.00	5.92
12.30	6.25
13.30	6.27
13.50	6.05
21.00	6.07
27.00	6.85
40.00	7.30
47.50	7.40
50.50	8.16
58.00	8.18
61.00	8.29
70.00	8.31



DEPTH (KM) VELOCITY (KM/S)

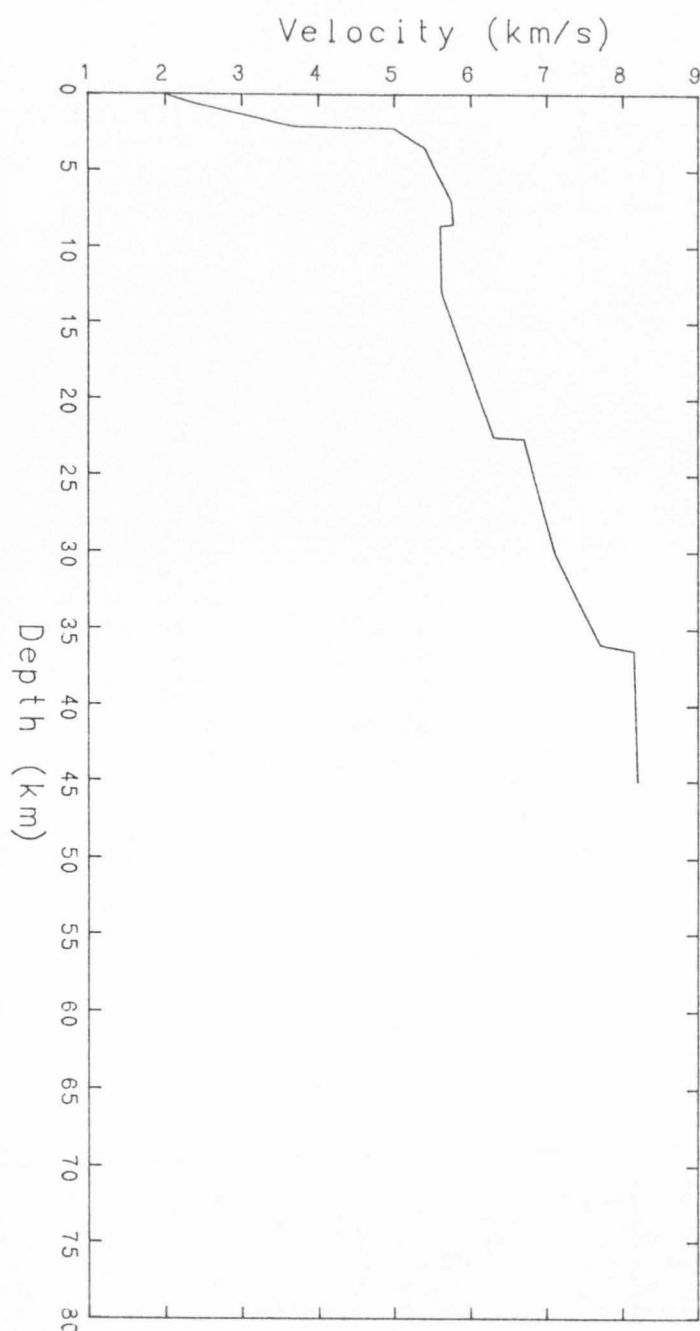
0.00	6.03
3.30	6.15
4.10	5.90
5.30	5.95
6.30	6.20
8.10	6.25
8.50	6.00
9.90	6.01
11.00	6.25
14.70	6.35
15.00	6.25
25.00	6.30
32.00	6.45
40.00	7.40
48.00	7.45
55.00	8.23
70.00	8.29

PFI13 - EROMANGA BASIN (A) - TEREBOOKA TO CHEEPIE



DEPTH (KM)	VELOCITY (KM/S)
0.00	2.20
.60	2.50
2.70	3.90
2.80	5.35
3.50	5.85
7.00	5.90
8.00	5.70
17.00	5.72
24.00	6.30
24.10	6.90
28.00	6.91
30.00	7.04
36.00	7.70
36.40	8.15
45.00	8.17
46.00	7.85
55.00	7.90
56.00	8.35
80.00	8.37

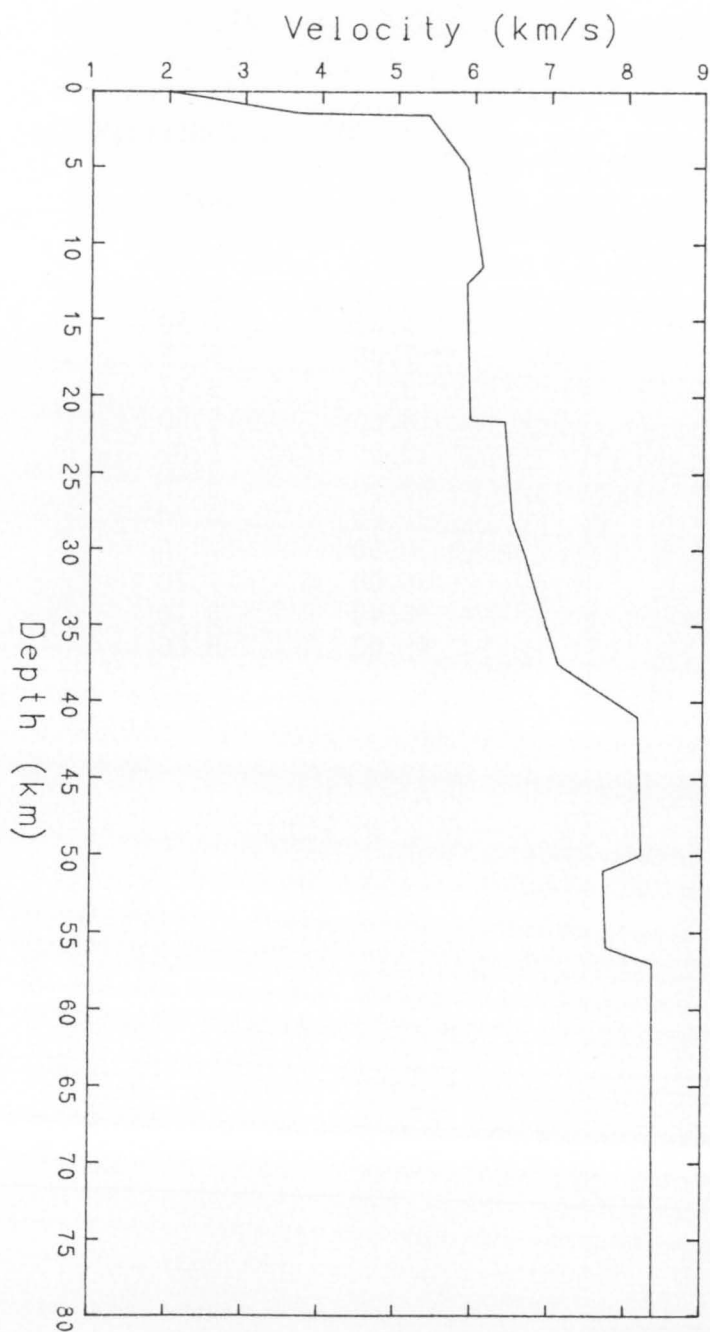
PFI14 - EROMANGA BASIN (B) - TALLYABRA TO TEREBOOKA



DEPTH (KM) VELOCITY (KM/S)

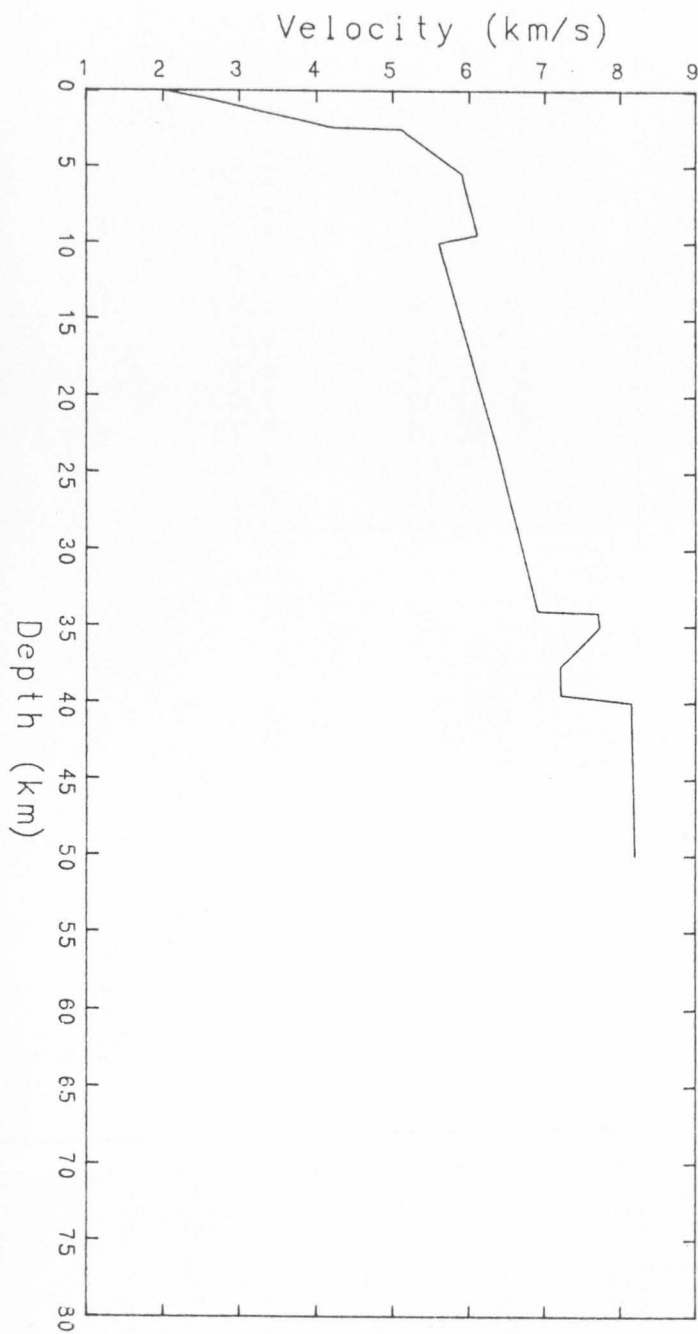
0.00	2.00
.50	2.30
2.10	3.70
2.20	5.00
3.50	5.40
7.00	5.75
8.50	5.77
8.60	5.60
13.00	5.62
22.50	6.30
22.60	6.70
30.00	7.10
36.00	7.70
36.40	8.15
45.00	8.20

PF115 - EROMANGA BASIN (C) - CHEEPIE TO TEREBOOKA



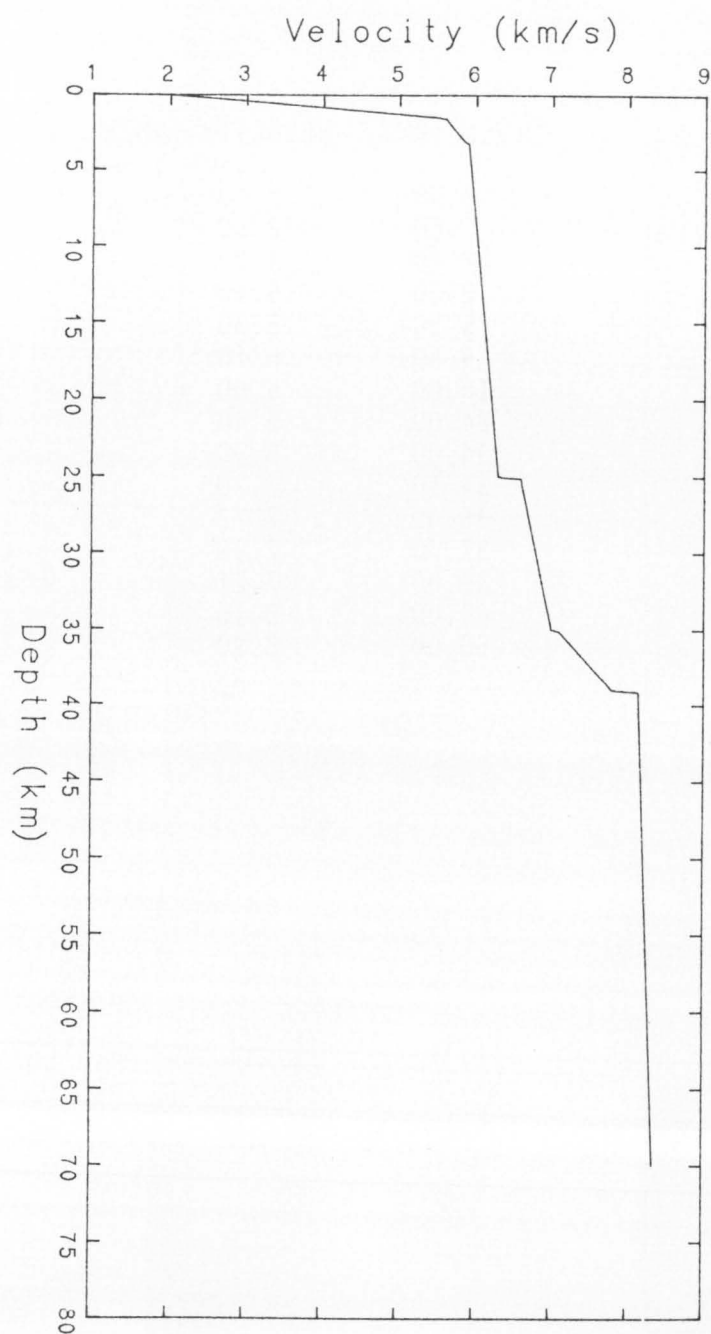
DEPTH (KM)	VELOCITY (KM/S)
0.00	2.00
.50	2.60
1.40	3.70
1.50	5.40
5.00	5.90
11.50	6.10
12.60	5.90
21.50	5.95
21.60	6.40
28.00	6.50
30.00	6.65
37.50	7.10
41.00	8.15
50.00	8.20
51.00	7.70
56.00	7.75
57.00	8.35
80.00	8.37

PFI16 - EROMANGA BASIN (D) - TALLYADRA TO CHEEPIE



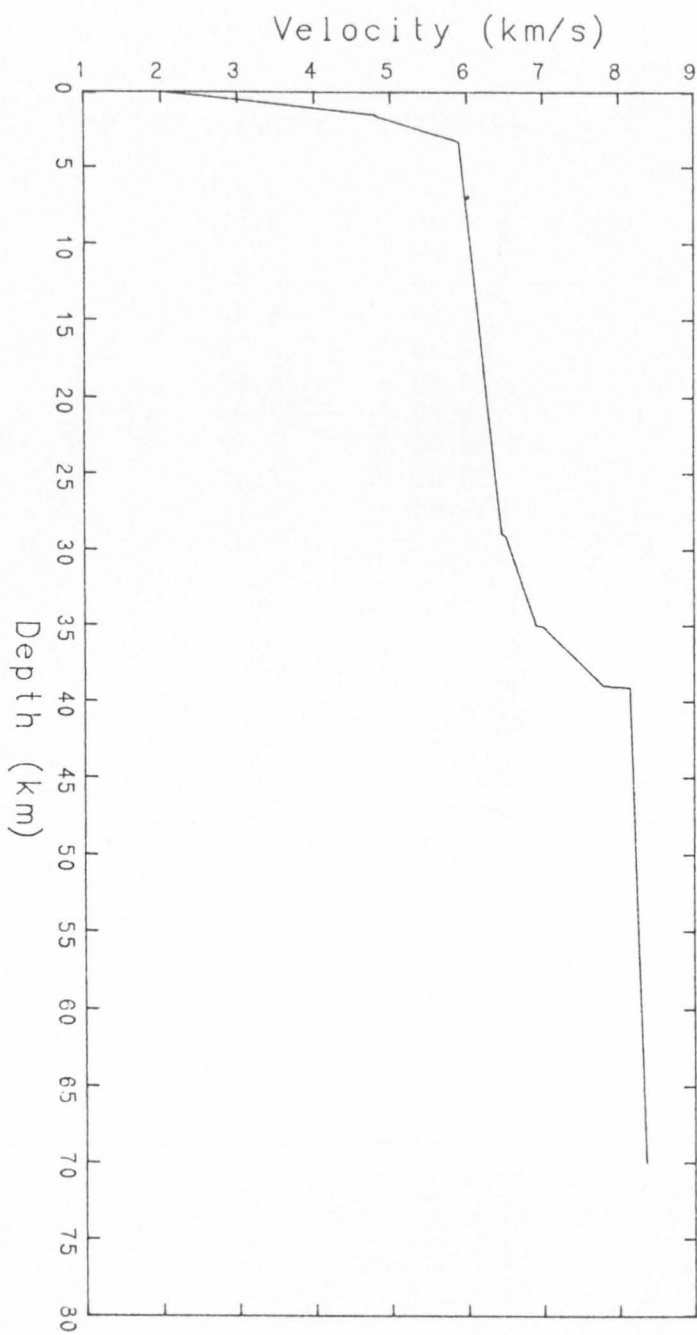
DEPTH (KM)	VELOCITY (KM/S)
0.00	2.00
.60	2.60
2.40	4.20
2.50	5.10
5.50	5.90
9.50	6.10
10.00	5.60
24.00	6.40
34.00	6.90
34.10	7.70
35.00	7.72
37.70	7.20
39.50	7.21
40.00	8.15
50.00	8.20

PFI17 - EROMANGA BASIN, THARGOMINDAH NORTH TO BLACKALL



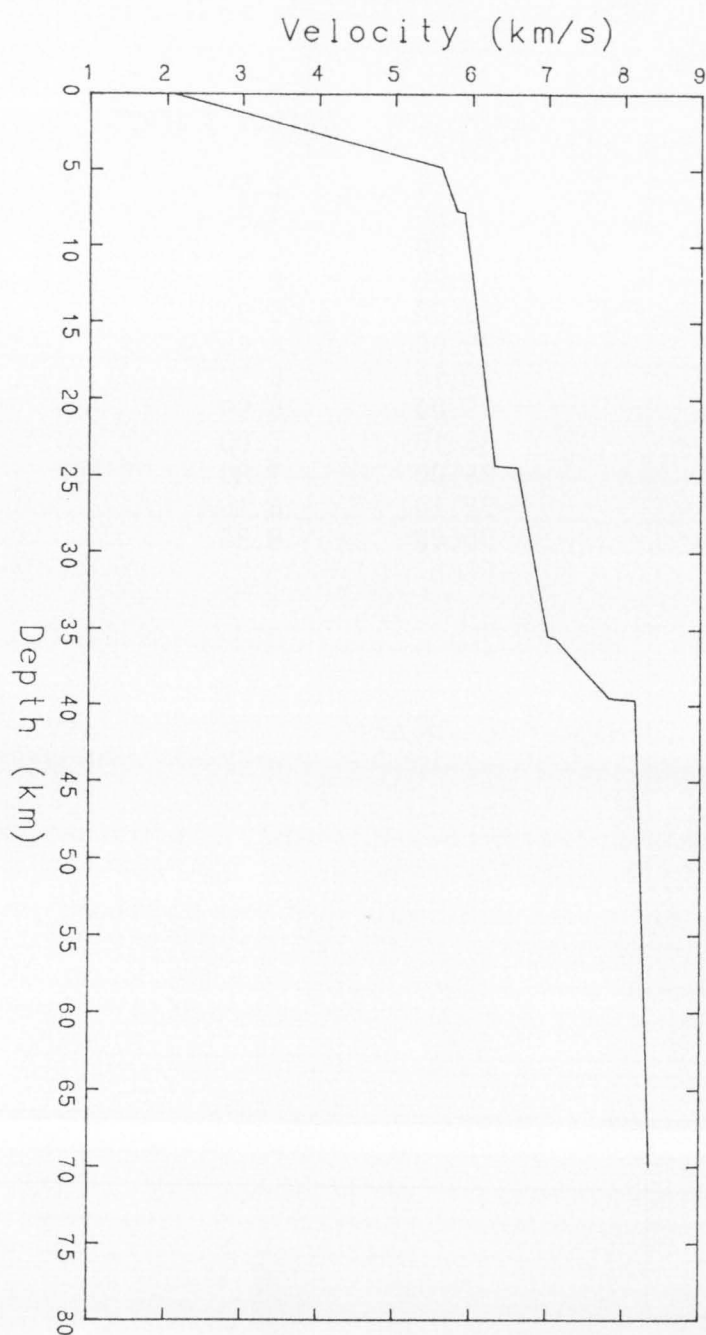
DEPTH (KM)	VELOCITY (KM/S)
0.00	2.00
1.50	5.50
1.60	5.60
3.20	5.85
3.30	5.90
25.00	6.30
25.10	6.60
35.00	7.00
35.10	7.10
39.00	7.80
39.10	8.15
70.00	8.35

PFI18 - EROMANGA BASIN, TOOMPINE NORTH TO BLACKALL



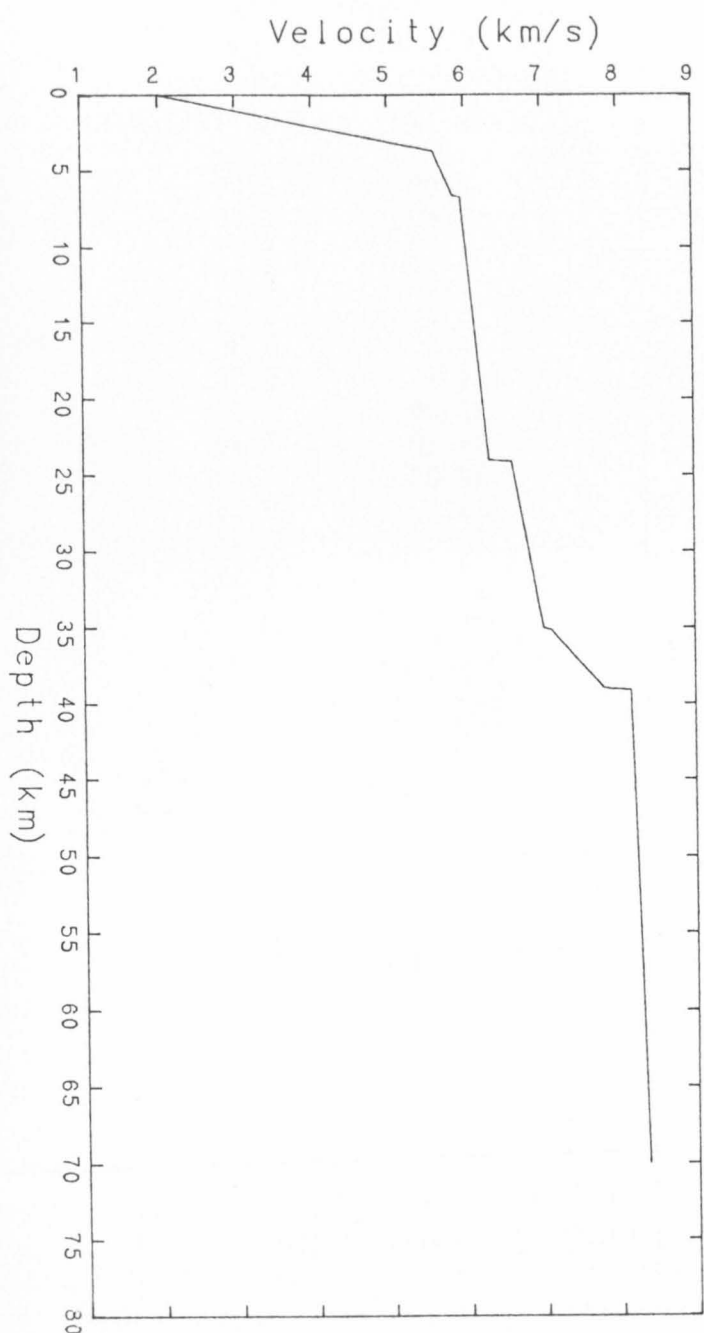
DEPTH (KM)	VELOCITY (KM/S)
0.00	2.00
1.50	4.80
1.60	4.80
3.20	5.85
3.30	5.90
29.00	6.45
29.10	6.50
35.00	6.90
35.10	7.00
39.00	7.80
39.10	8.15
70.00	8.35

PFI19 - EROMANGA BASIN, ADAVALE NORTH AND SOUTH



DEPTH (KM)	VELOCITY (KM/S)
0.00	2.10
4.70	5.50
4.80	5.60
7.70	5.80
7.80	5.90
24.30	6.30
24.40	6.60
35.50	7.00
35.60	7.10
39.50	7.80
39.60	8.15
70.00	8.35

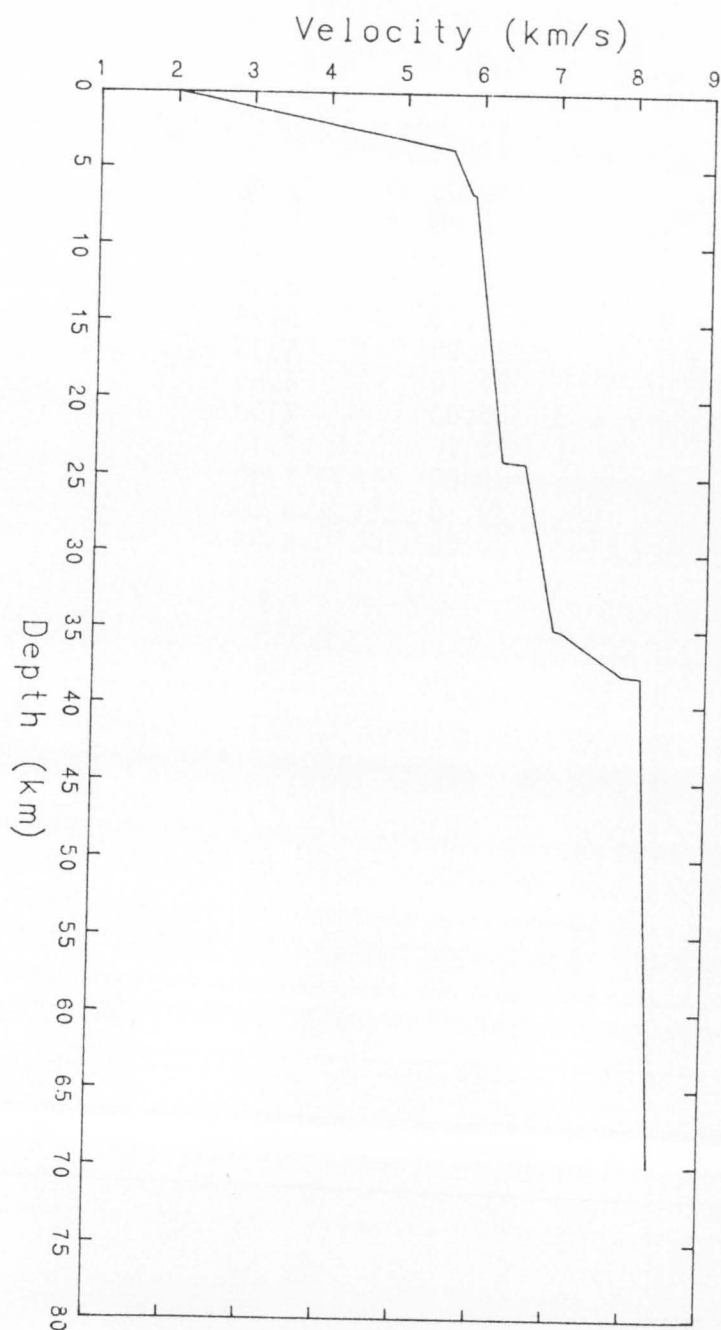
PFI20 - EROMANGA BASIN, BLACKALL SOUTH TO TOOMPINE



DEPTH (KM) VELOCITY (KM/S)

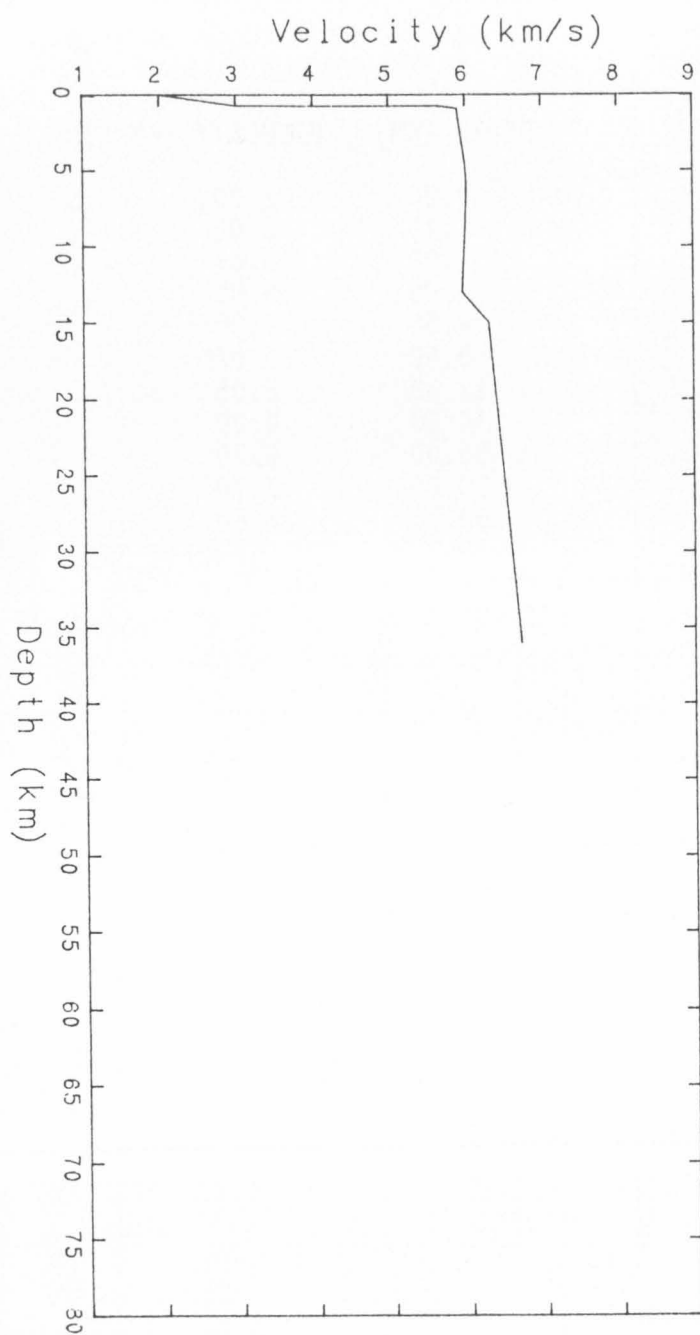
0.00	2.00
3.60	5.50
3.70	5.60
6.60	5.85
6.70	5.95
24.00	6.30
24.10	6.60
35.00	7.00
35.10	7.10
39.00	7.80
39.10	8.15
70.00	8.35

PFI21 - EROMANGA BASIN, BARCALTINE SOUTH TO TOOMPINE



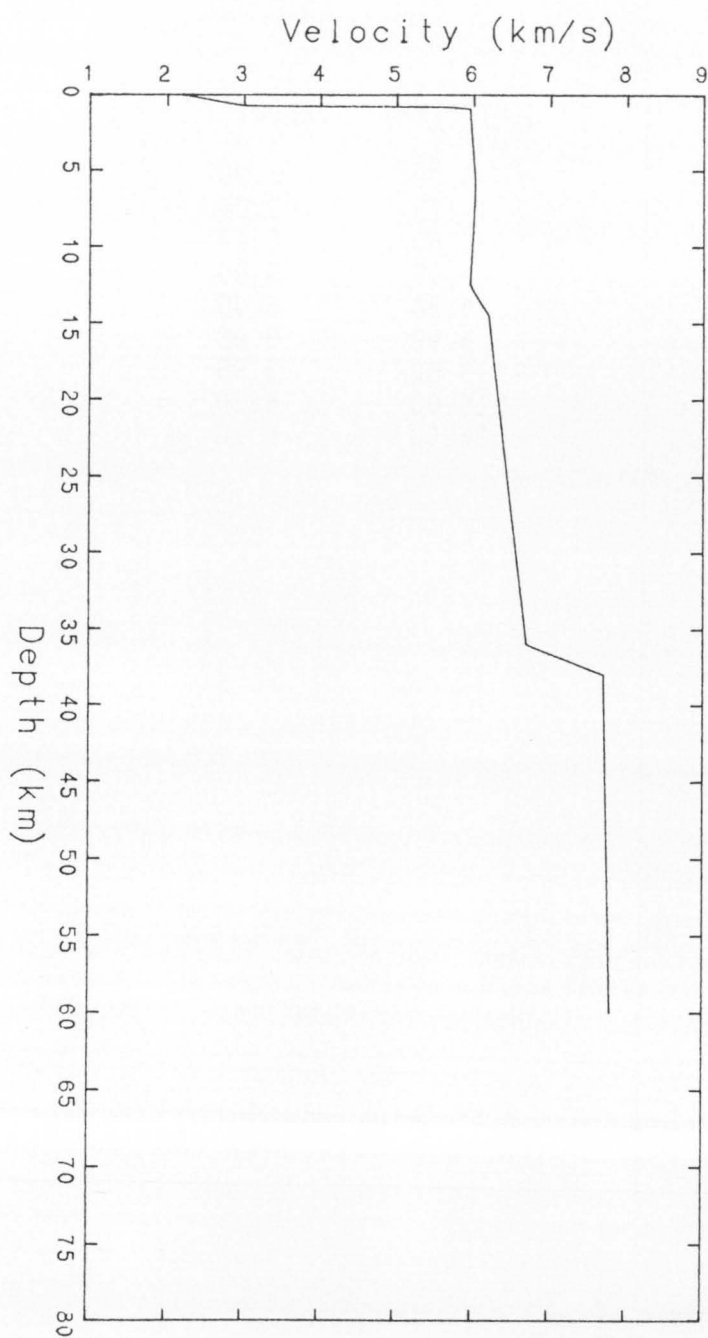
DEPTH (KM)	VELOCITY (KM/S)
0.00	2.00
3.60	5.50
3.70	5.60
6.60	5.85
6.70	5.90
24.00	6.30
24.10	6.60
35.00	7.00
35.10	7.10
38.00	7.90
38.10	8.15
70.00	8.35

PFI22 - NEBINE RIDGE (EASTWARDS)



DEPTH (KM)	VELOCITY (KM/S)
0.00	2.00
.75	3.00
.80	5.67
.95	5.90
4.50	6.00
5.90	6.02
13.00	5.95
15.00	6.30
36.00	6.70

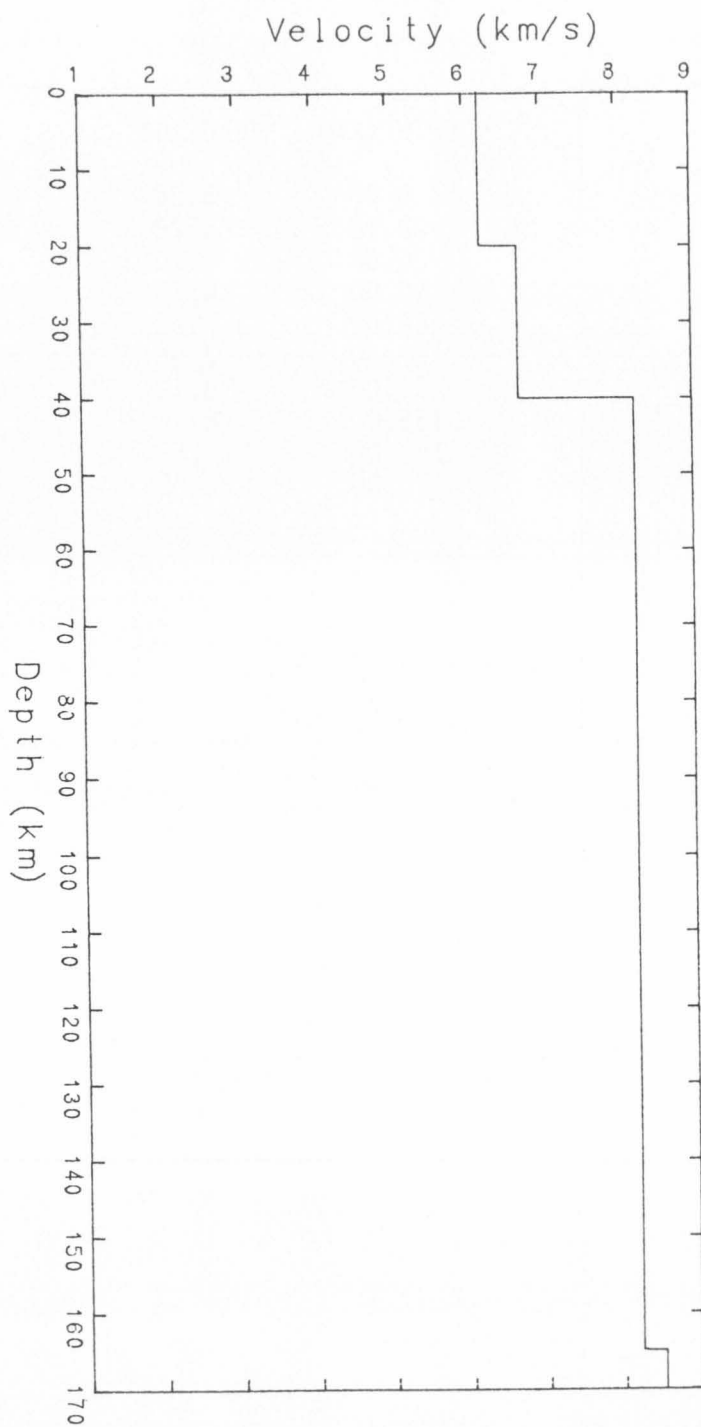
PFI23 - NEBINE RIDGE (WESTWARDS)



DEPTH (KM) VELOCITY (KM/S)

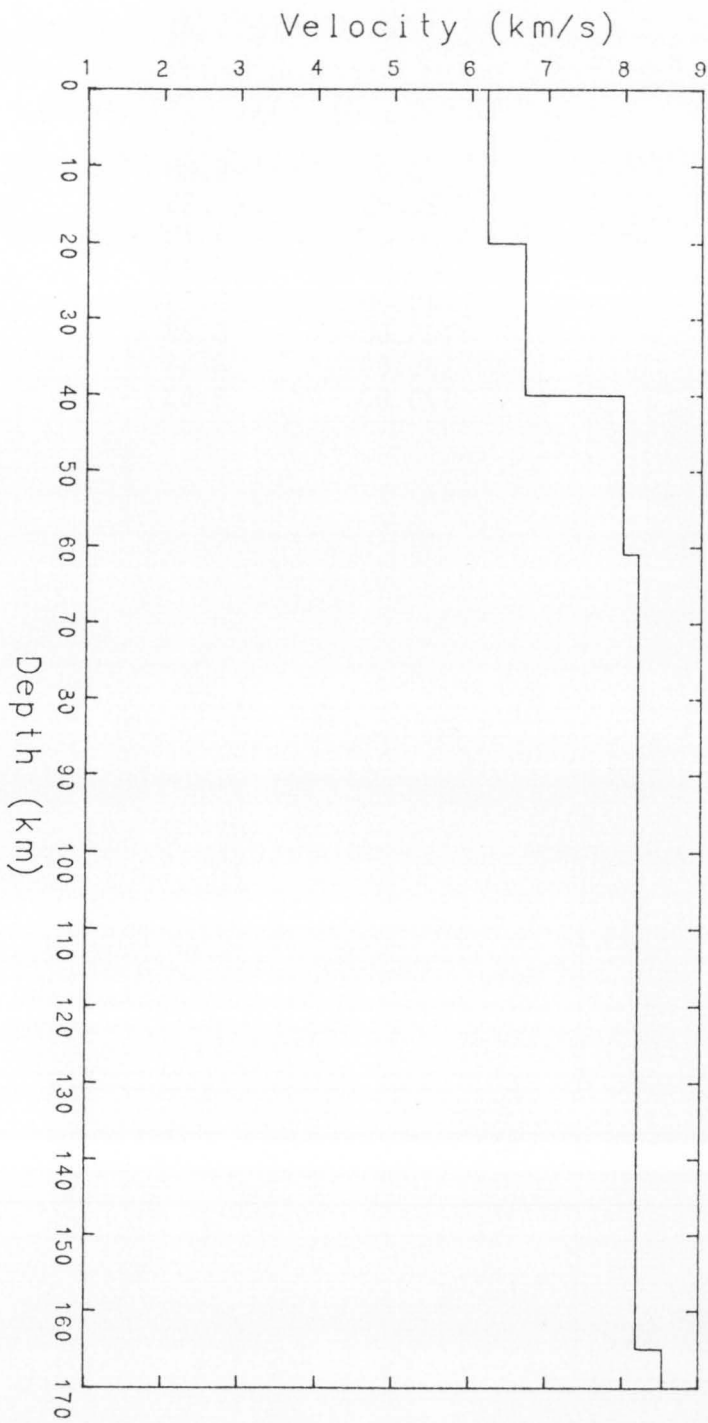
0.00	2.20
.75	3.00
.80	5.67
.95	5.95
4.50	6.00
5.90	6.02
12.50	5.95
14.50	6.20
36.00	6.70
38.00	7.70
60.00	7.80

PFI24 - TASS 1A, NULLARBOR REGION



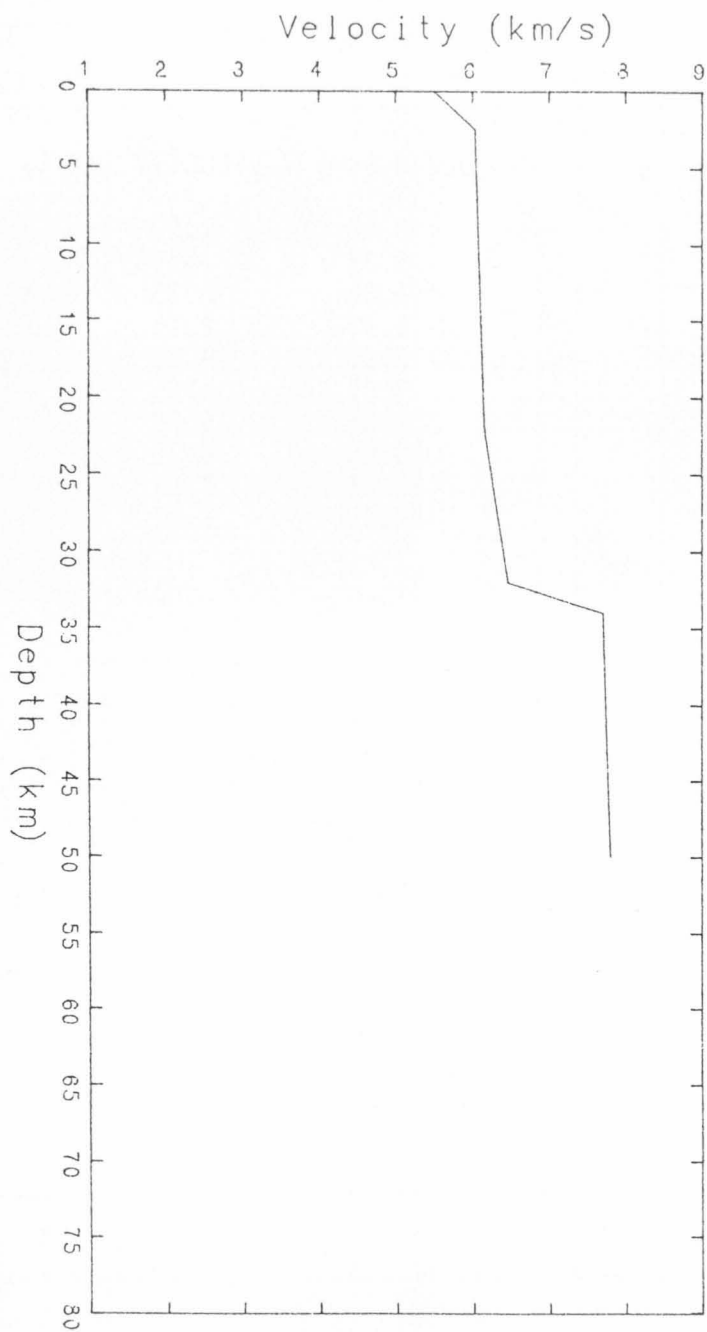
DEPTH (KM)	VELOCITY (KM/S)
0.00	6.20
20.00	6.20
20.00	6.70
40.00	6.70
40.00	8.23
165.00	8.23
165.00	8.53
170.00	8.53

PFI25 - TASS 2A, CENTRAL AUSTRALIA



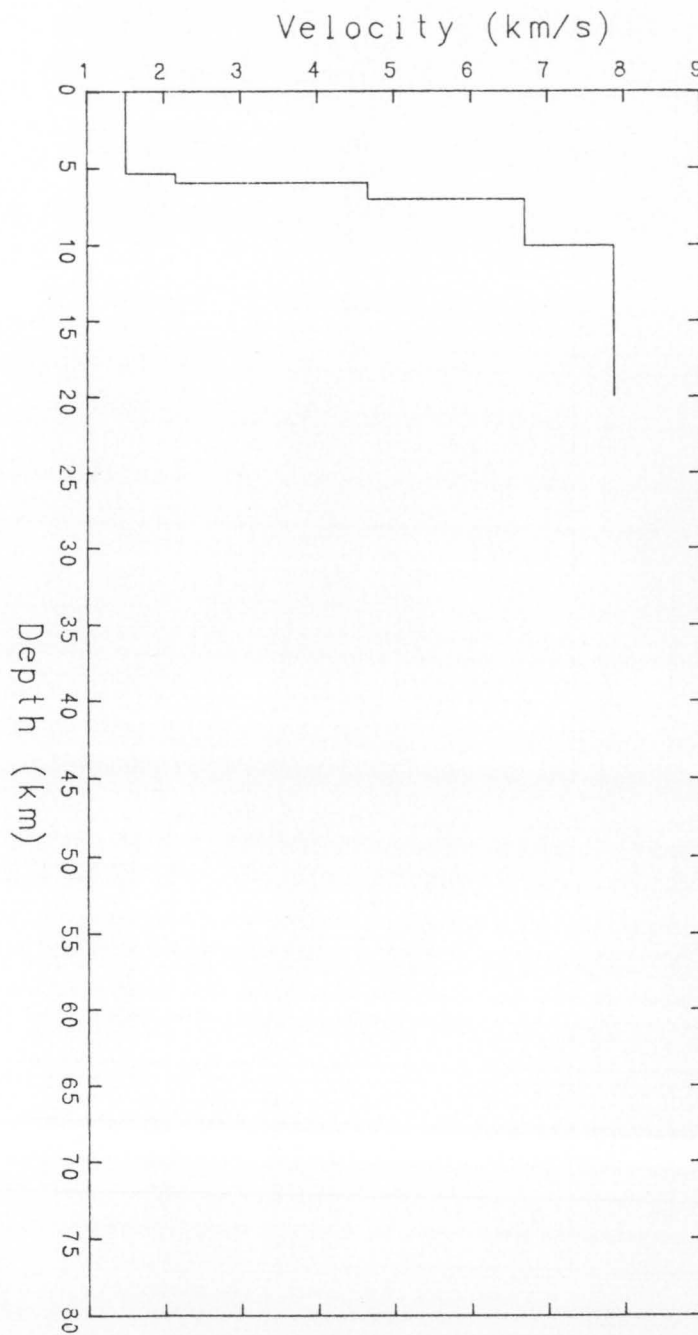
DEPTH (KM)	VELOCITY (KM/S)
0.00	6.20
20.00	6.20
20.00	6.70
40.00	6.70
40.00	7.98
61.00	7.98
61.00	8.18
165.00	8.18
165.00	8.53
170.00	8.53

PFI26 - NEW ENGLAND, WOOLBROOK NORTH (PRELIMINARY MODEL)

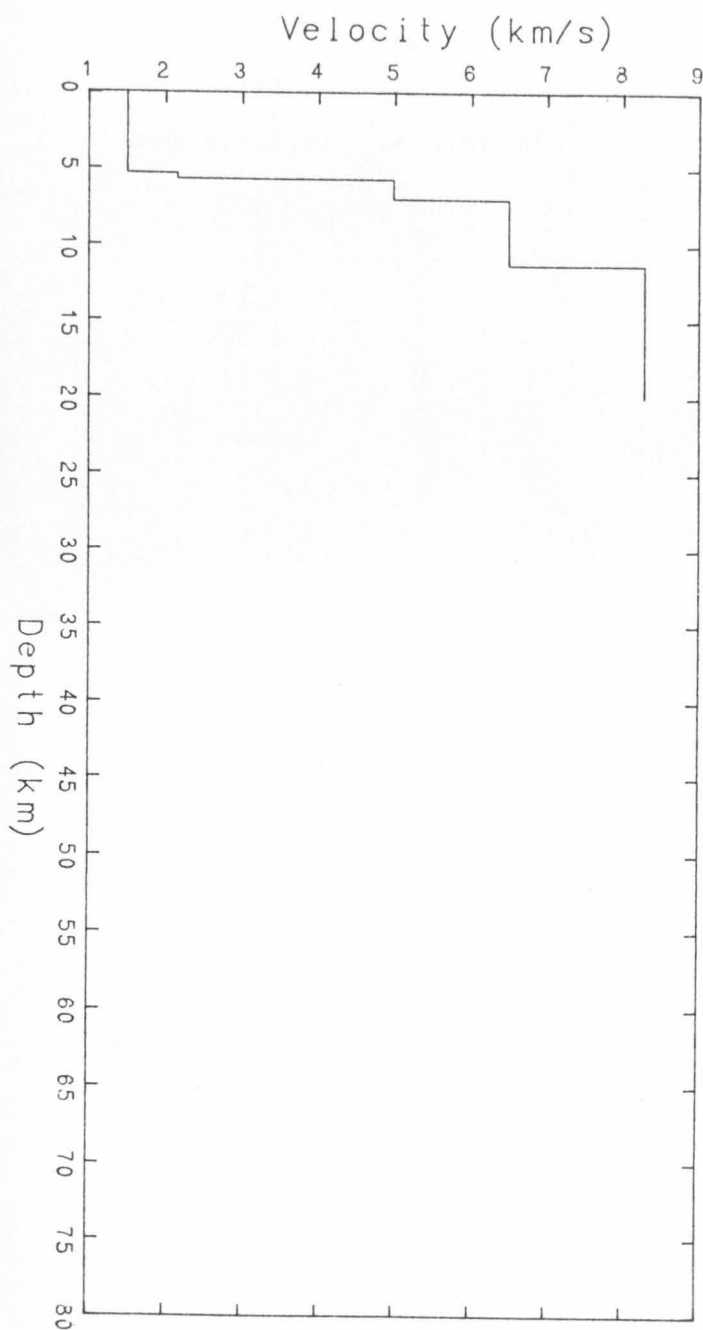


DEPTH (KM) VELOCITY (KM/S)

0.00	5.50
2.50	6.03
22.00	6.15
32.00	6.45
34.00	7.70
50.00	7.80

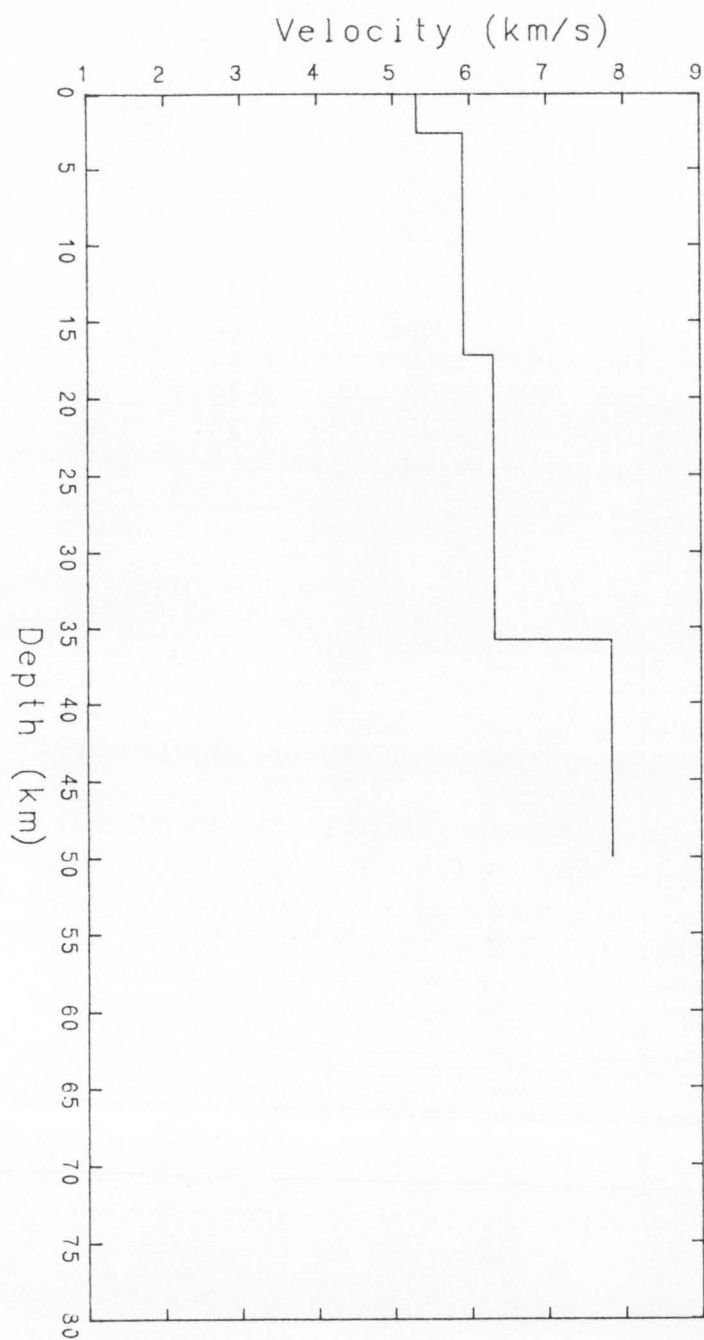


DEPTH (KM)	VELOCITY (KM/S)
0.00	1.50
5.35	1.50
5.35	2.15
5.95	2.15
5.95	4.66
7.05	4.66
7.05	6.70
10.05	6.70
10.05	7.87
20.00	7.87



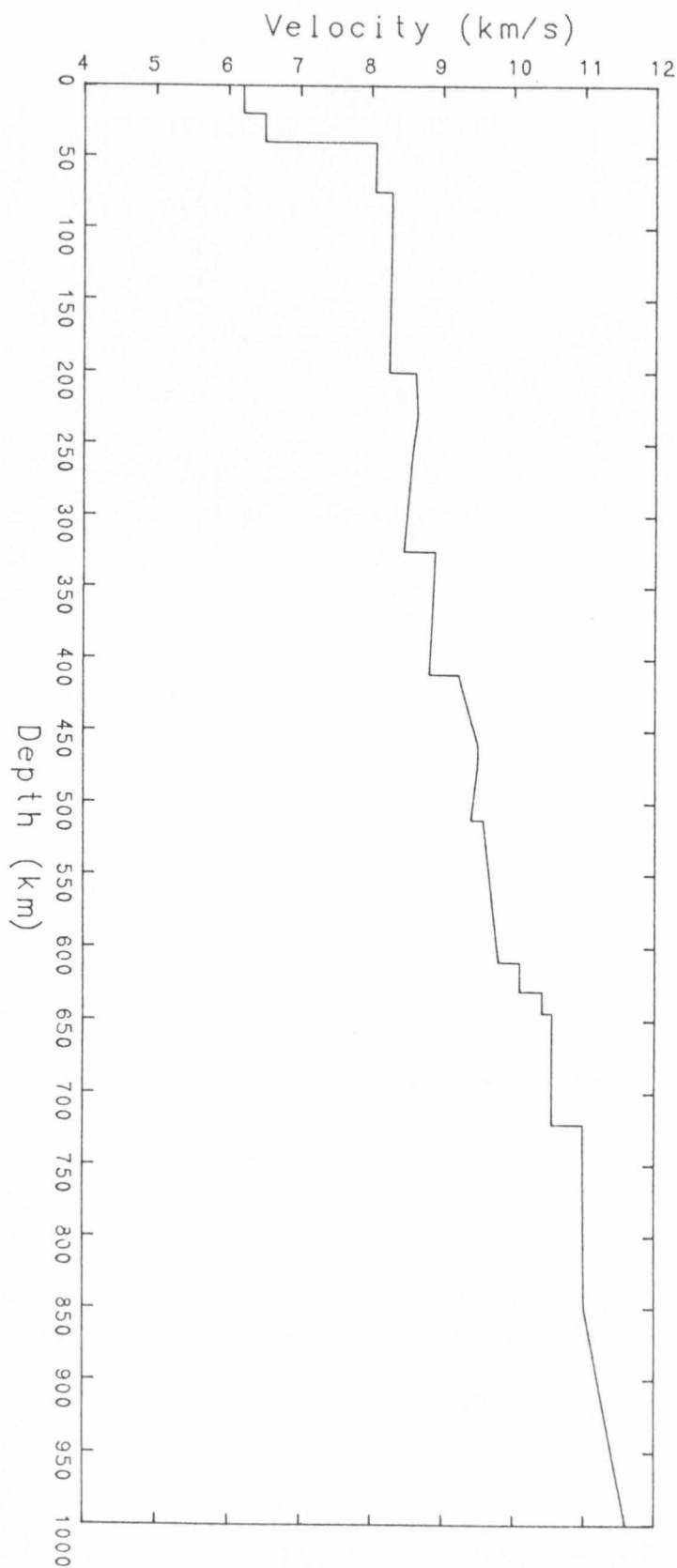
DEPTH (KM) VELOCITY (KM/S)

0.00	1.50
5.35	1.50
5.35	2.15
5.70	2.15
5.70	4.98
7.00	4.98
7.00	6.49
11.30	6.49
11.30	8.28
20.00	8.28



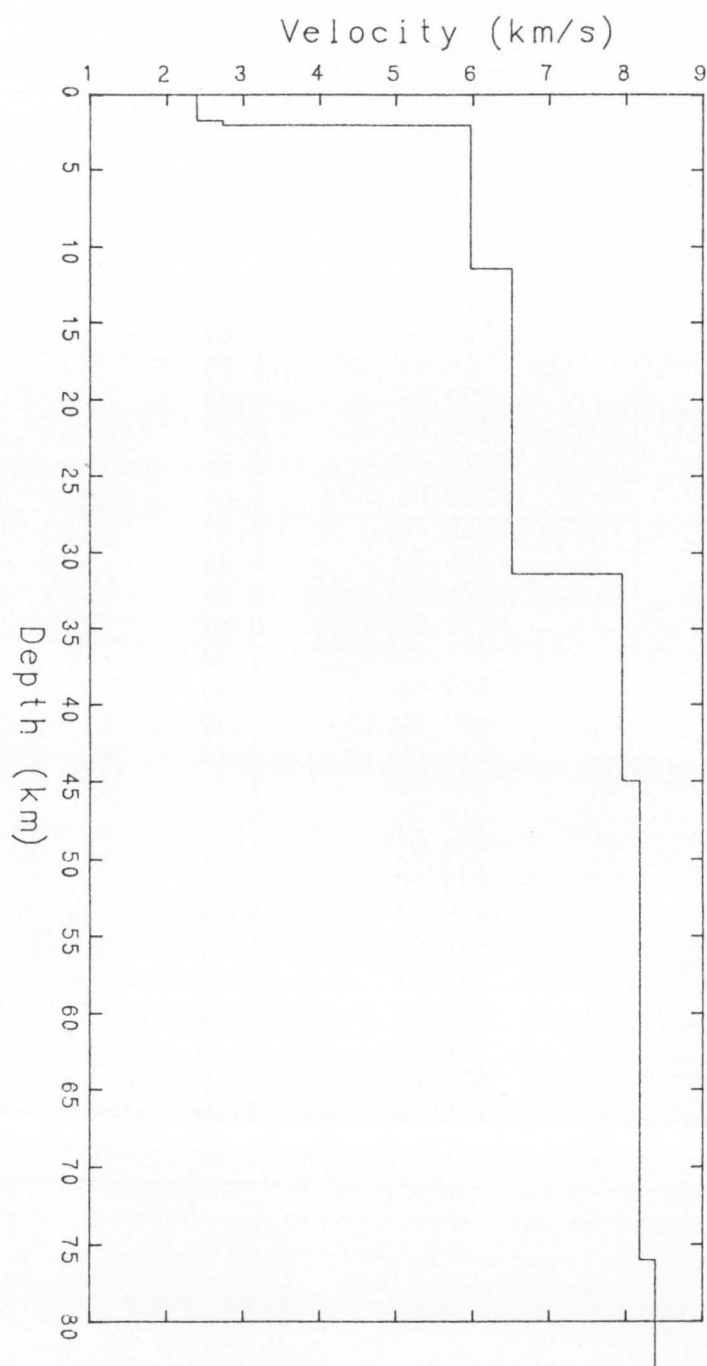
DEPTH (KM)	VELOCITY (KM/S)
0.00	5.30
2.60	5.31
2.61	5.91
17.20	5.92
17.21	6.30
35.80	6.31
35.81	7.83
50.00	7.84

PHA01 - UPPER MANTLE: MODEL 8 (HALES, MUIRHEAD, RYNN)



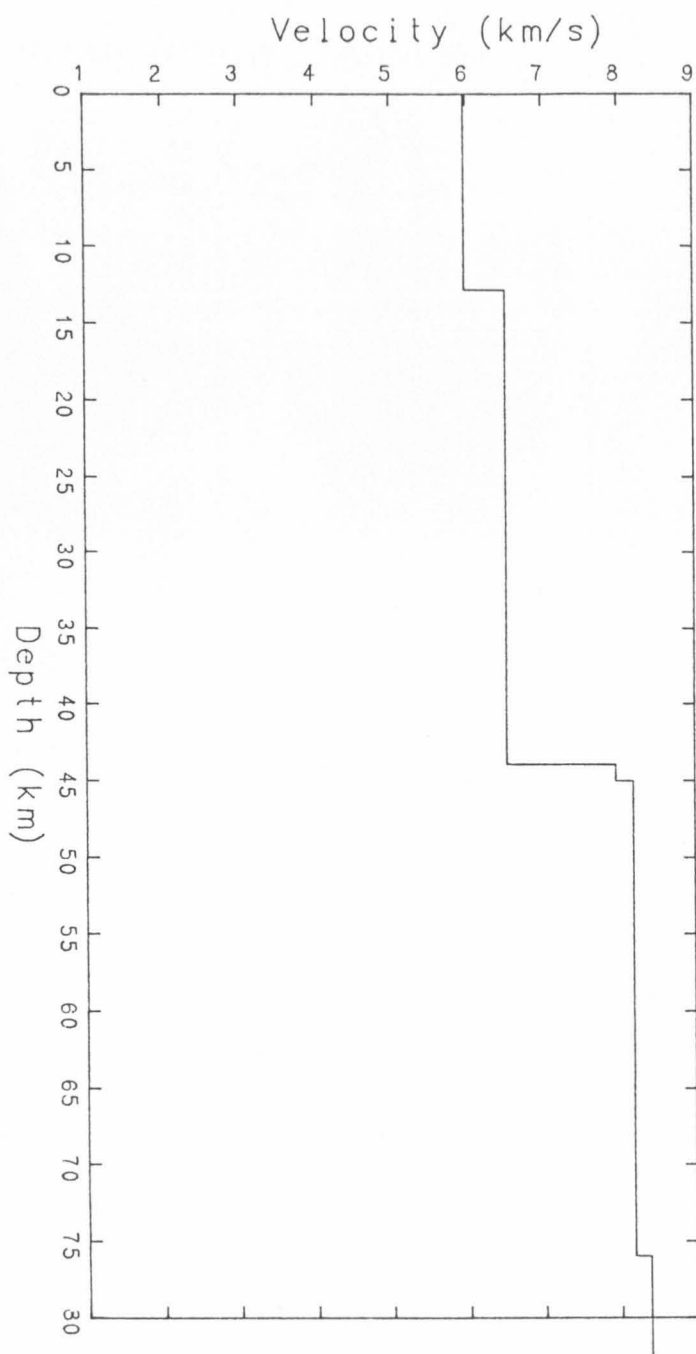
DEPTH (KM)	VELOCITY (KM/S)
0.00	6.20
20.00	6.20
20.01	6.50
40.00	6.50
40.01	8.06
75.00	8.04
75.01	8.28
200.00	8.24
200.01	8.62
227.00	8.65
230.00	8.65
255.00	8.57
325.00	8.45
325.01	8.89
411.00	8.81
411.01	9.23
460.00	9.50
470.00	9.50
512.00	9.40
512.01	9.57
610.00	9.79
610.01	10.1
630.00	10.1
630.01	10.4
645.00	10.4
645.01	10.5
722.00	10.6
722.01	11.0
850.00	11.0
1000.0	11.6

PHA02 - DARWIN TO TENNANT CK, NT

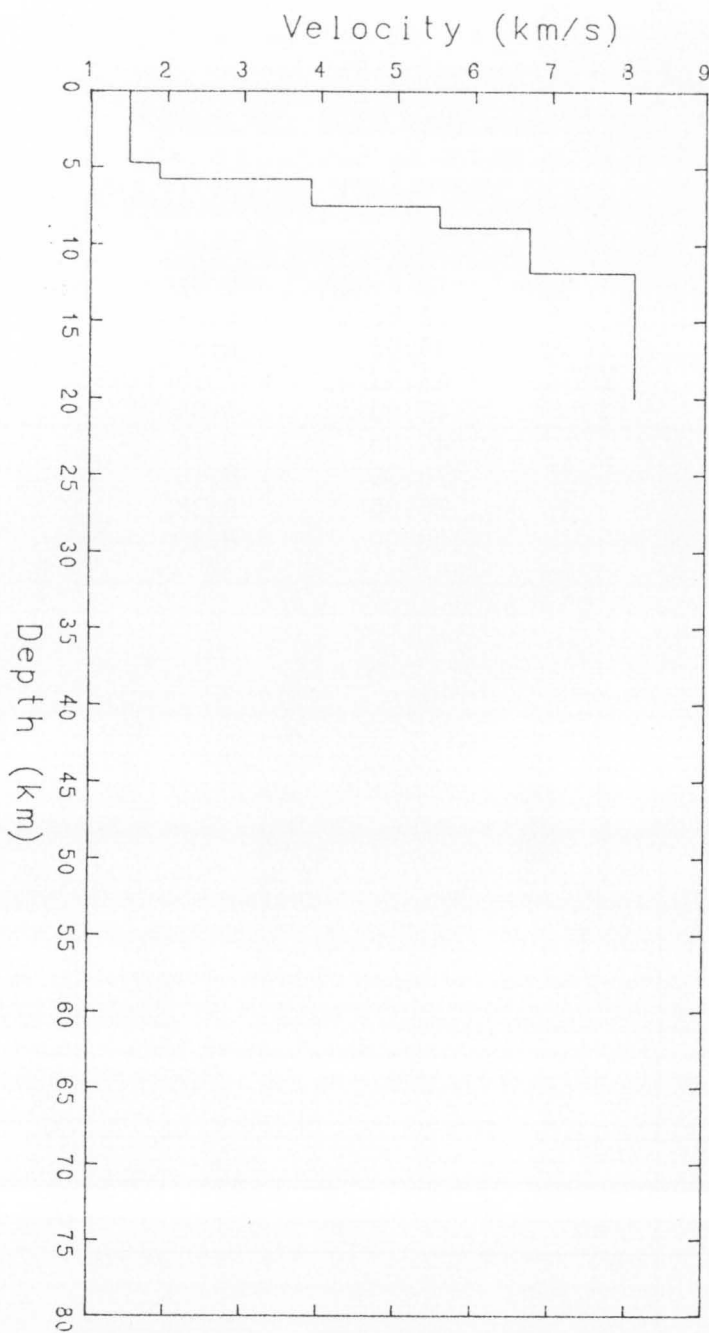


DEPTH (KM)	VELOCITY (KM/S)
0.00	2.39
1.76	2.39
1.76	2.73
2.05	2.73
2.05	5.97
11.48	5.97
11.48	6.51
31.41	6.51
31.41	7.95
45.00	7.95
45.00	8.18
76.00	8.18
76.00	8.38
100.00	8.38

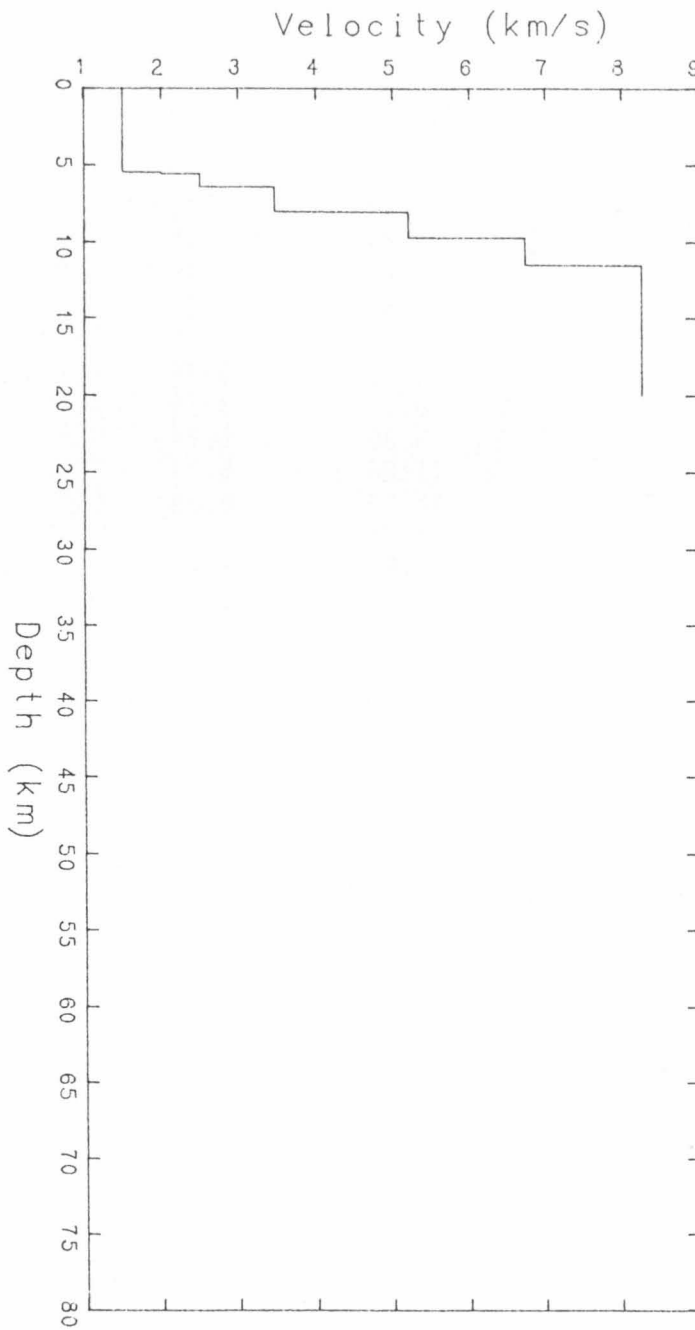
PHA03 - DARWIN TO TENNANT CK, NT - LAND



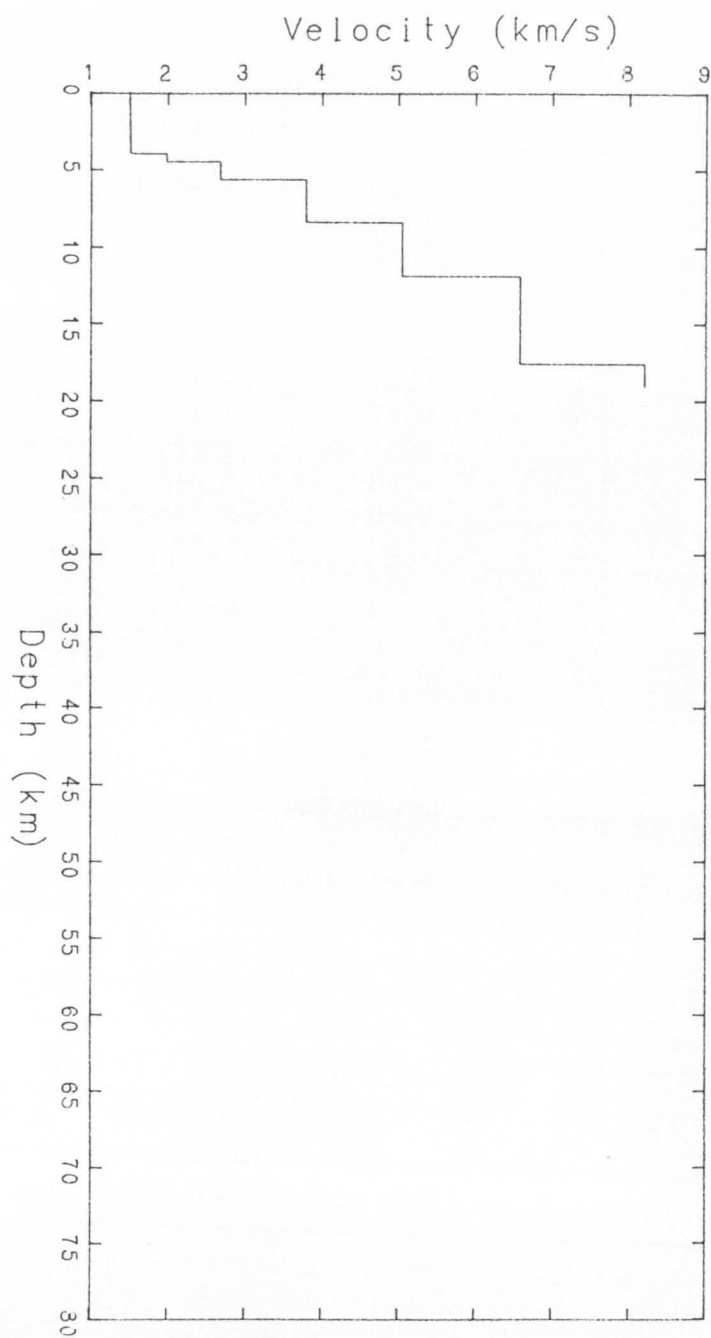
DEPTH (KM)	VELOCITY (KM/S)
0.00	5.97
12.85	5.97
12.85	6.51
43.93	6.51
43.93	7.95
45.00	7.95
45.00	8.18
76.00	8.18
76.00	8.38
100.00	8.38



DEPTH (KM)	VELOCITY (KM/S)
0.00	1.50
4.72	1.50
4.72	1.89
5.75	1.89
5.75	3.87
7.51	3.87
7.51	5.54
8.88	5.54
8.88	6.70
11.84	6.70
11.84	8.07
20.00	8.07

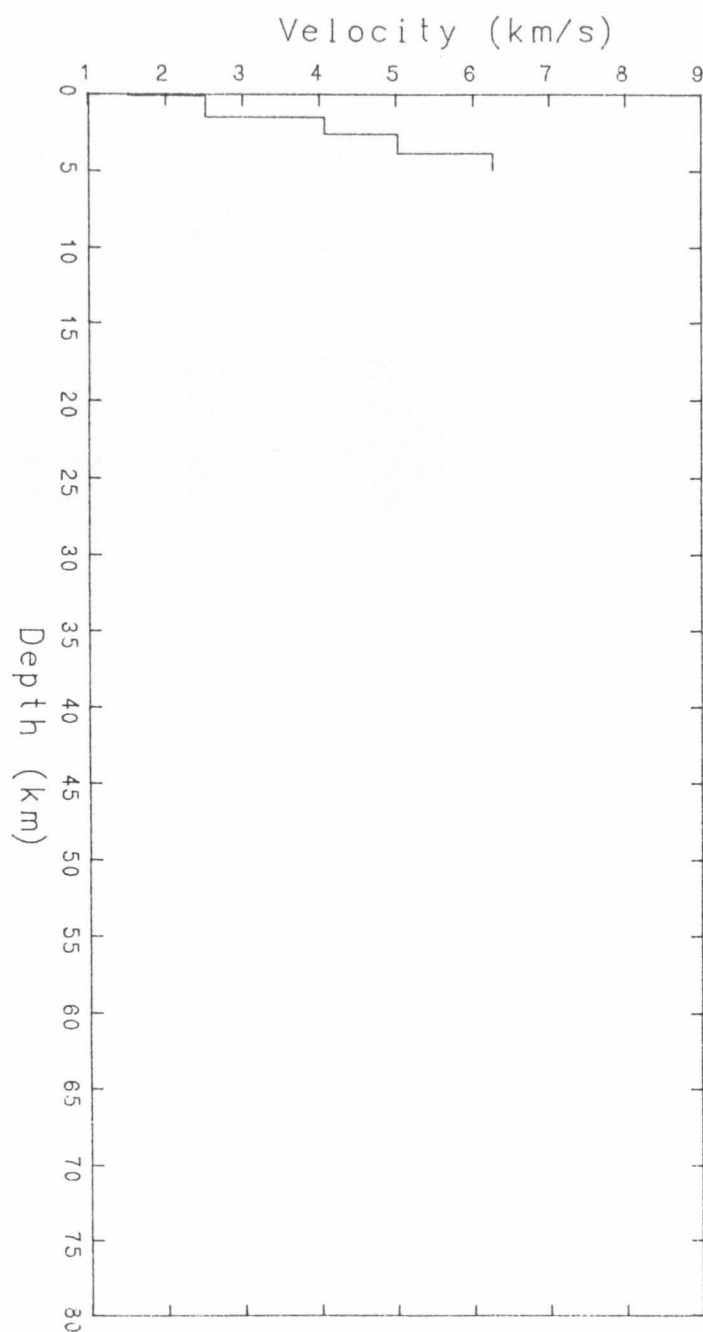


DEPTH (KM)	VELOCITY (KM/S)
0.00	1.50
5.48	1.50
5.48	2.00
5.56	2.00
5.56	2.51
6.41	2.51
6.41	3.47
8.01	3.47
8.01	5.21
9.68	5.21
9.68	6.74
11.50	6.74
11.50	8.27
20.00	8.27



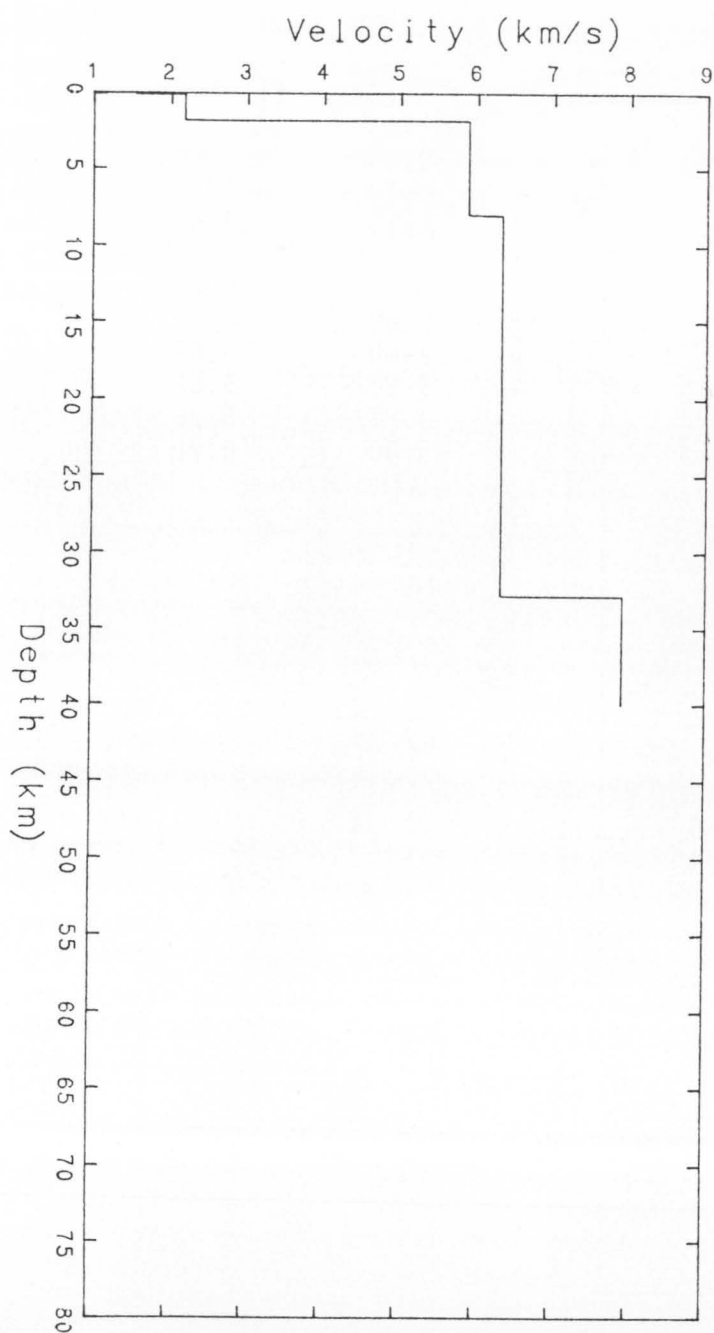
DEPTH (KM) VELOCITY (KM/S)

0.00	1.50
3.91	1.51
3.91	1.98
4.45	1.98
4.45	2.68
5.65	2.68
5.65	3.79
8.36	3.79
8.36	5.04
11.86	5.04
11.86	6.58
17.54	6.58
17.54	8.20
19.00	8.20



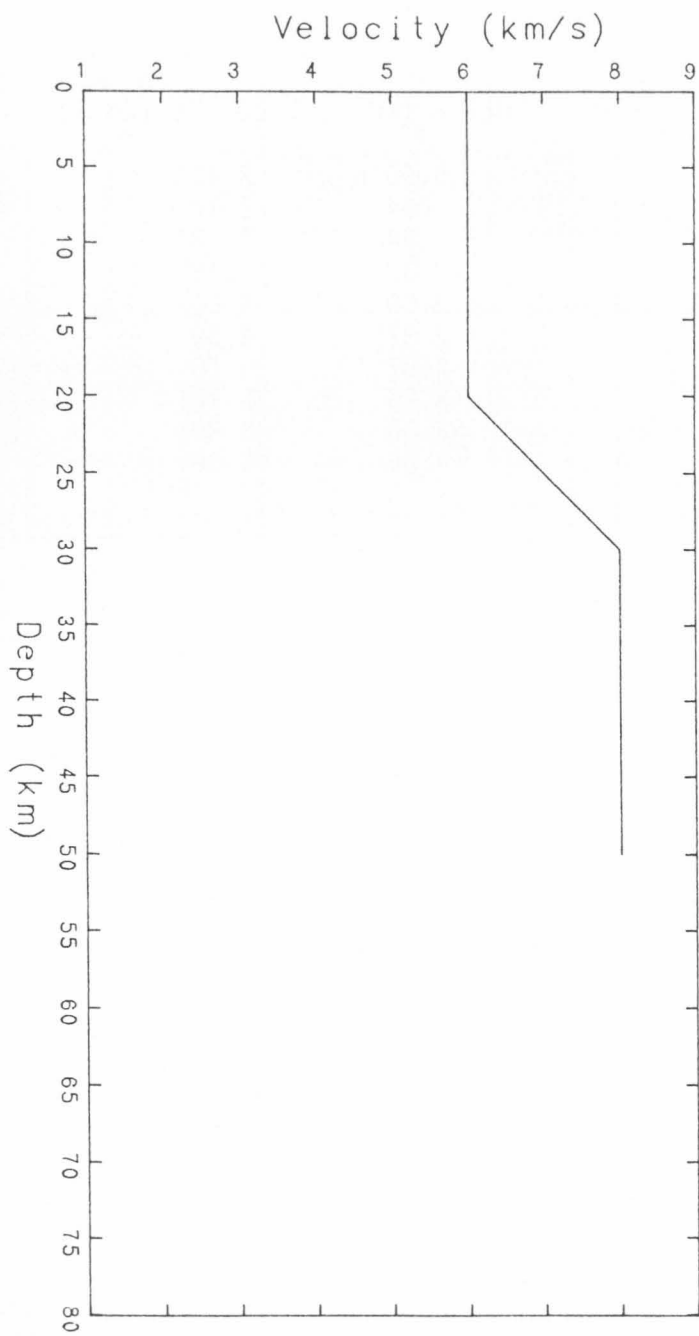
DEPTH (KM)	VELOCITY (KM/S)
0.00	1.51
.13	1.51
.13	2.52
1.52	2.52
1.52	4.07
2.60	4.07
2.60	5.02
3.87	5.02
3.87	6.26
5.00	6.26

PJA01 - WESTERN ARAFURA SEA, CONTINENTAL SHELF



DEPTH (KM)	VELOCITY (KM/S)
0.00	1.53
.08	1.53
.08	2.17
1.79	2.17
1.79	5.88
7.99	5.88
7.99	6.32
32.84	6.32
32.84	7.91
40.00	7.91

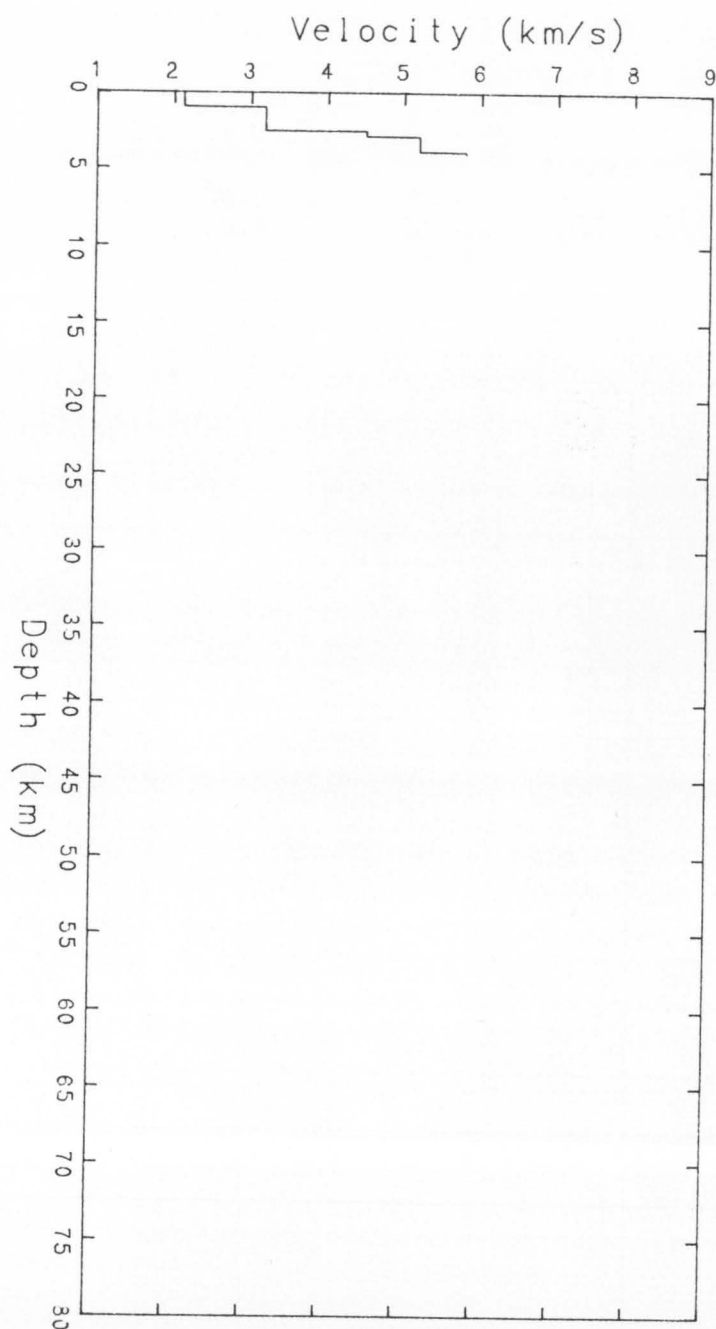
PJ001 - BASS STRAIT (BUMP DATA)



PJ001 - BASS STRAIT (BUMP DATA)

DEPTH (KM)	VELOCITY (KM/S)
0.00	6.00
20.00	6.01
30.00	8.00
50.00	8.01

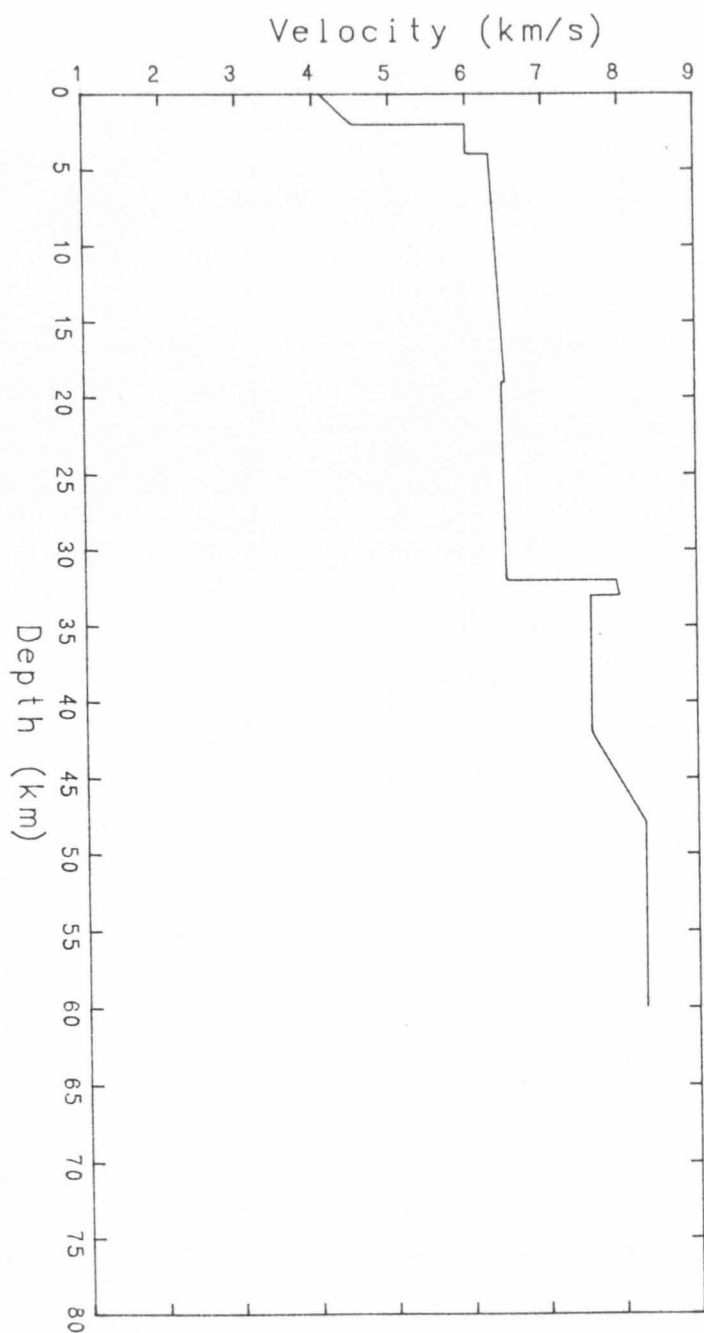
PKI01 - COOPER BASIN, QUEENSLAND



DEPTH (KM) VELOCITY (KM/S)

0.00	2.12
.94	2.12
.94	3.18
2.50	3.18
2.50	4.50
2.87	4.50
2.87	5.20
3.86	5.20
3.86	5.80
4.00	5.80

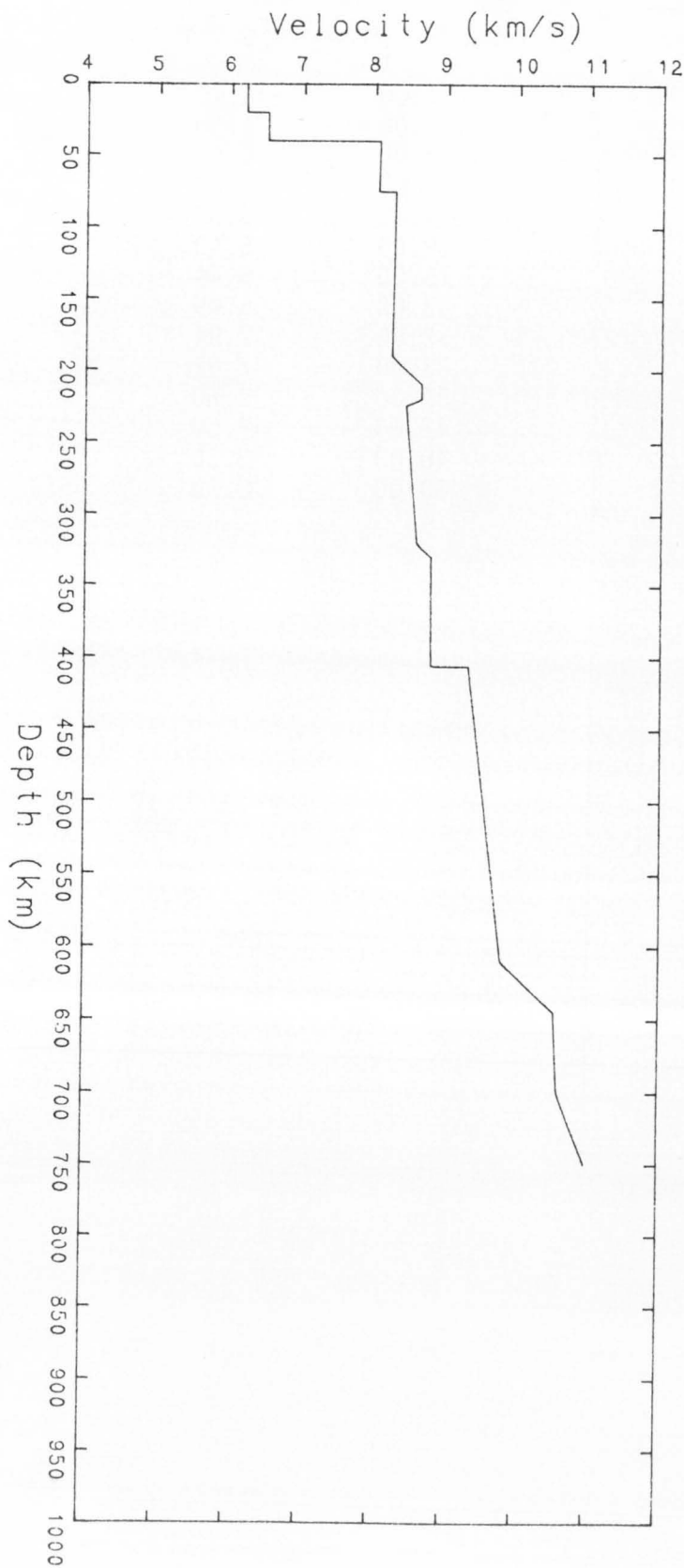
PLE01 - BOWEN BASIN - CQEW MODEL



DEPTH (KM) VELOCITY (KM/S)

0.00	4.10
2.00	4.50
2.00	6.00
4.00	6.00
4.00	6.30
19.00	6.49
19.00	6.44
32.00	6.49
32.00	7.94
33.00	7.98
33.00	7.60
42.00	7.60
48.00	8.30
60.00	8.30

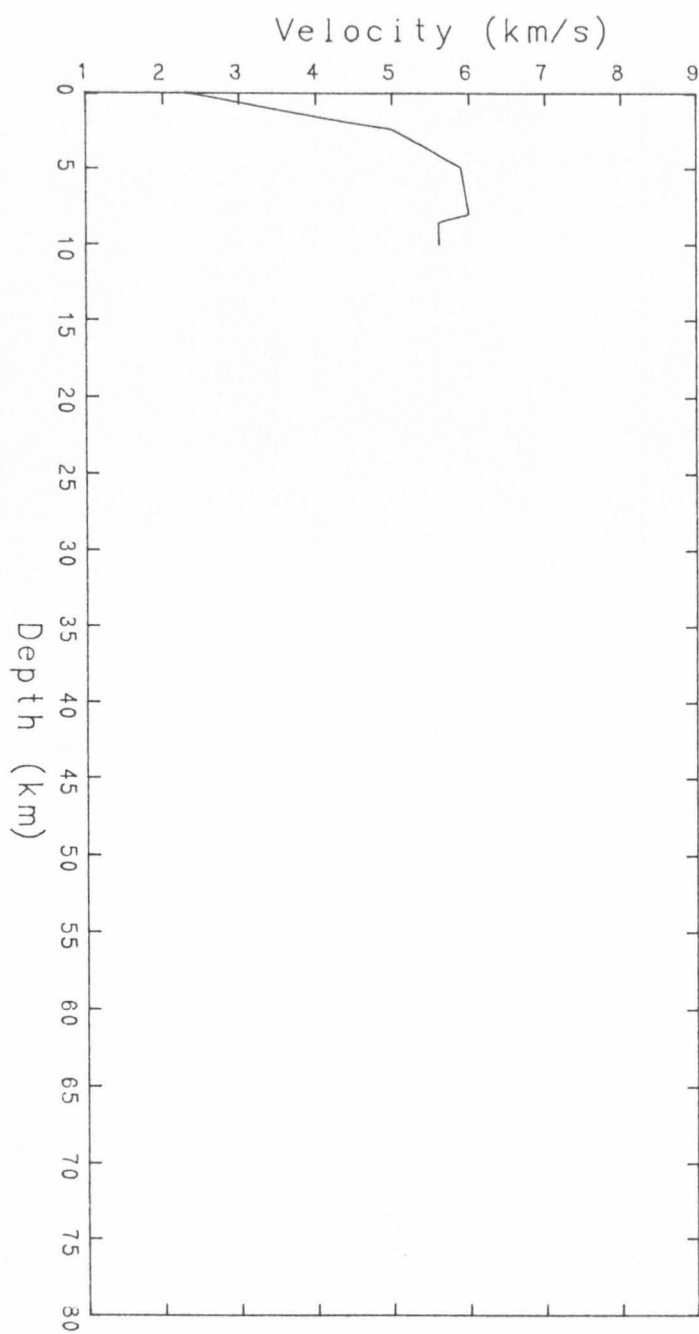
PLE02 - UPPER MANTLE: CAPRI MODEL



DEPTH (KM) VELOCITY (KM/S)

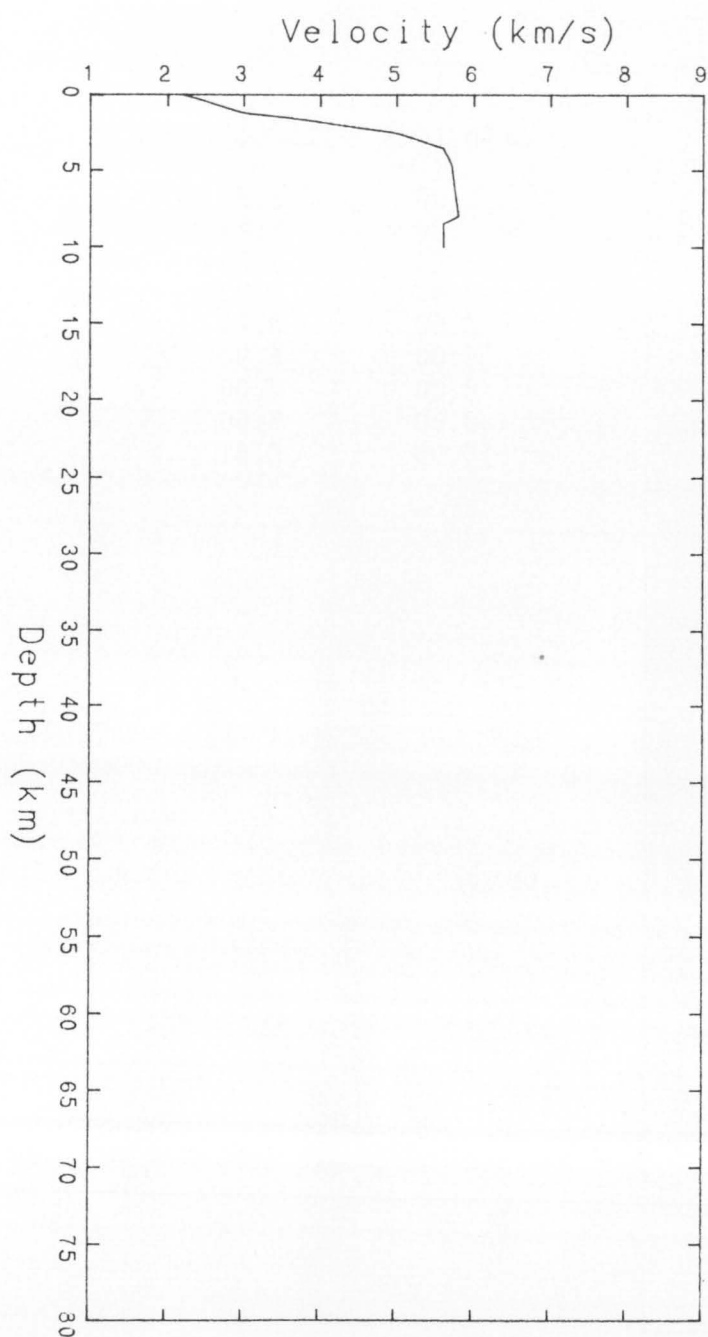
0.00	6.20
20.00	6.20
20.00	6.50
40.00	6.50
40.00	8.06
75.00	8.04
75.00	8.28
190.00	8.24
210.00	8.66
220.00	8.66
225.00	8.45
320.00	8.60
330.00	8.80
406.00	8.80
406.00	9.33
610.00	9.80
645.00	10.5
700.00	10.6
750.00	11.0

PL001 - EROMANGA BASIN - MT HOWITT EAST



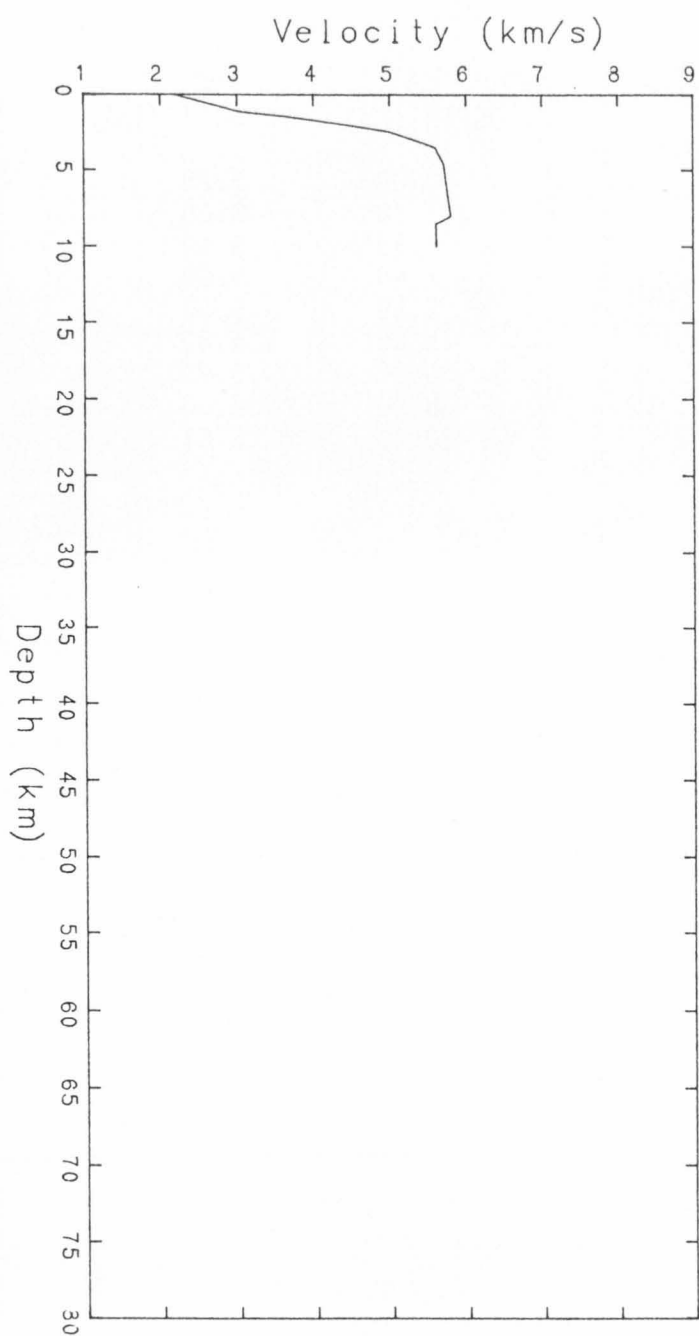
DEPTH (KM)	VELOCITY (KM/S)
0.00	2.30
.80	3.20
1.20	3.60
2.40	5.00
3.50	5.40
5.00	5.90
8.00	6.00
8.50	5.60
10.00	5.61

PL002 - EROMANGA BASIN - LITTLE WONDER, WEST



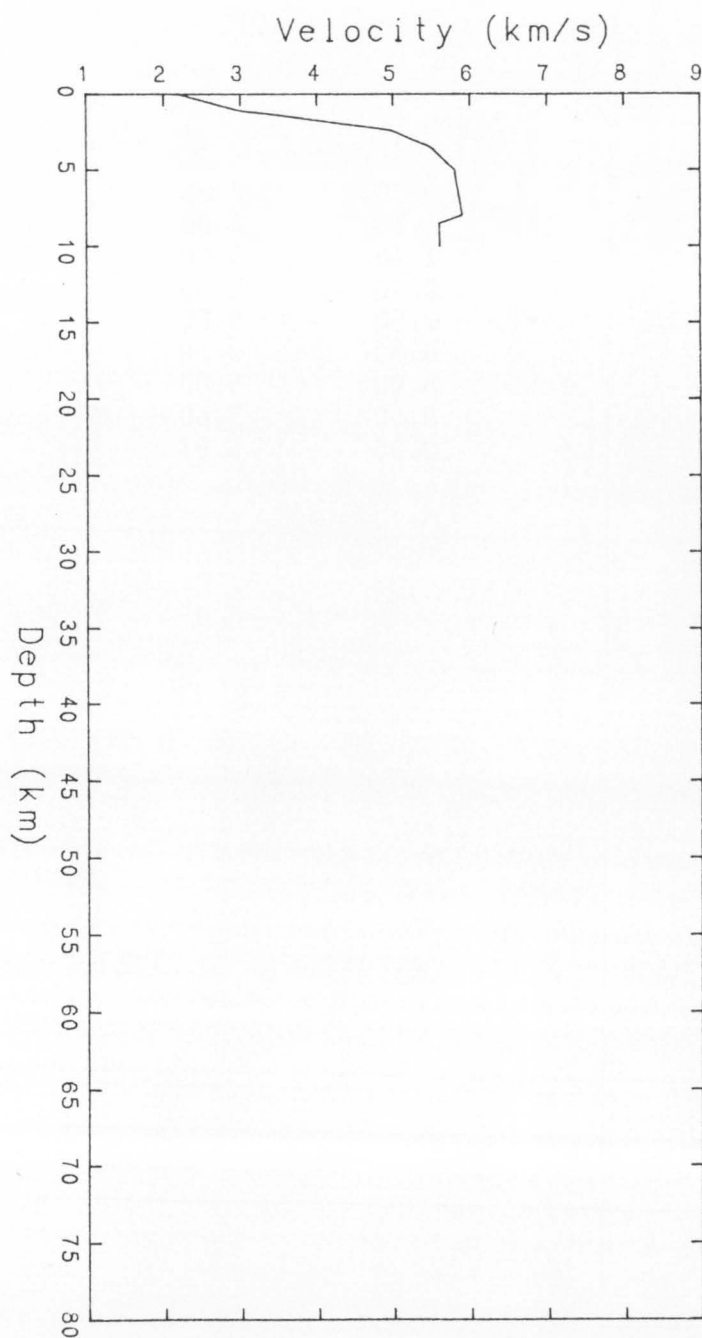
DEPTH (KM)	VELOCITY (KM/S)
0.00	2.20
1.20	3.00
1.50	3.60
2.50	5.00
3.50	5.60
4.50	5.70
8.00	5.80
8.50	5.60
10.00	5.61

PL003 - EROMANGA BASIN - LITTLE WONDER, EAST



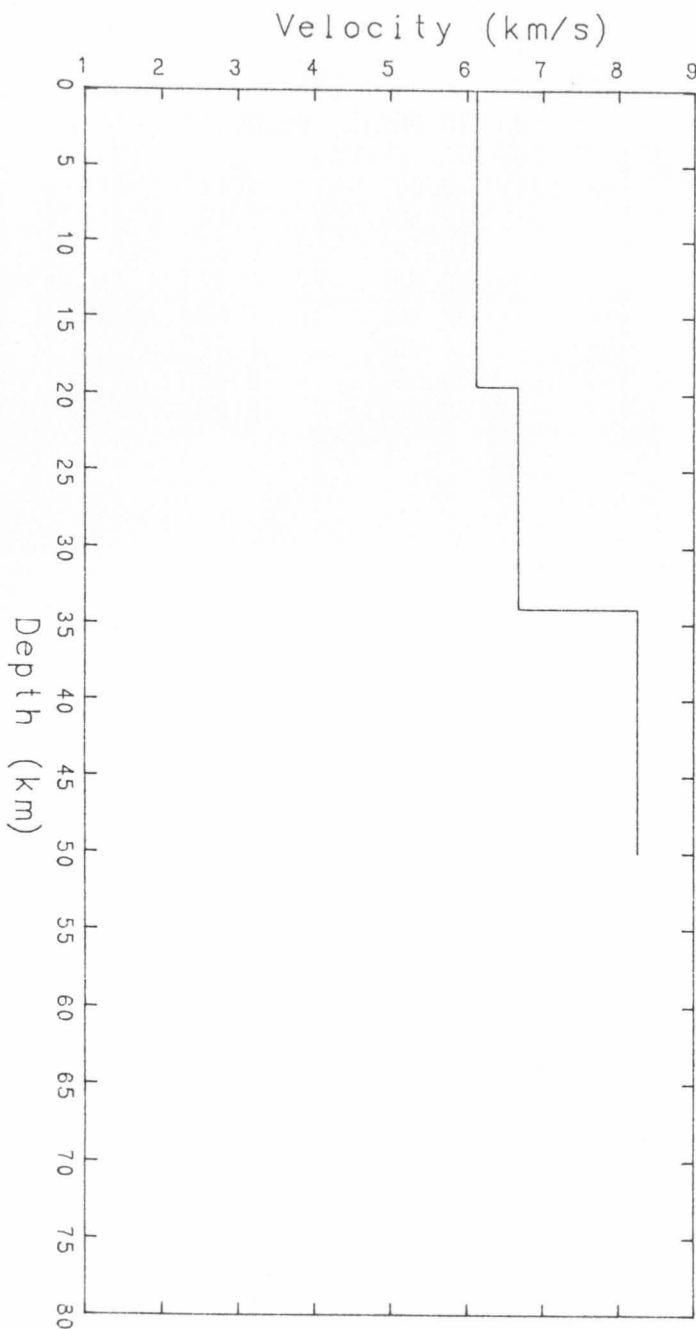
DEPTH (KM)	VELOCITY (KM/S)
0.00	2.20
1.10	3.00
1.40	3.60
2.40	5.00
3.50	5.60
4.50	5.70
8.00	5.80
8.50	5.60
10.00	5.61

PL004 - EROMANGA BASIN - EROMANGA WEST



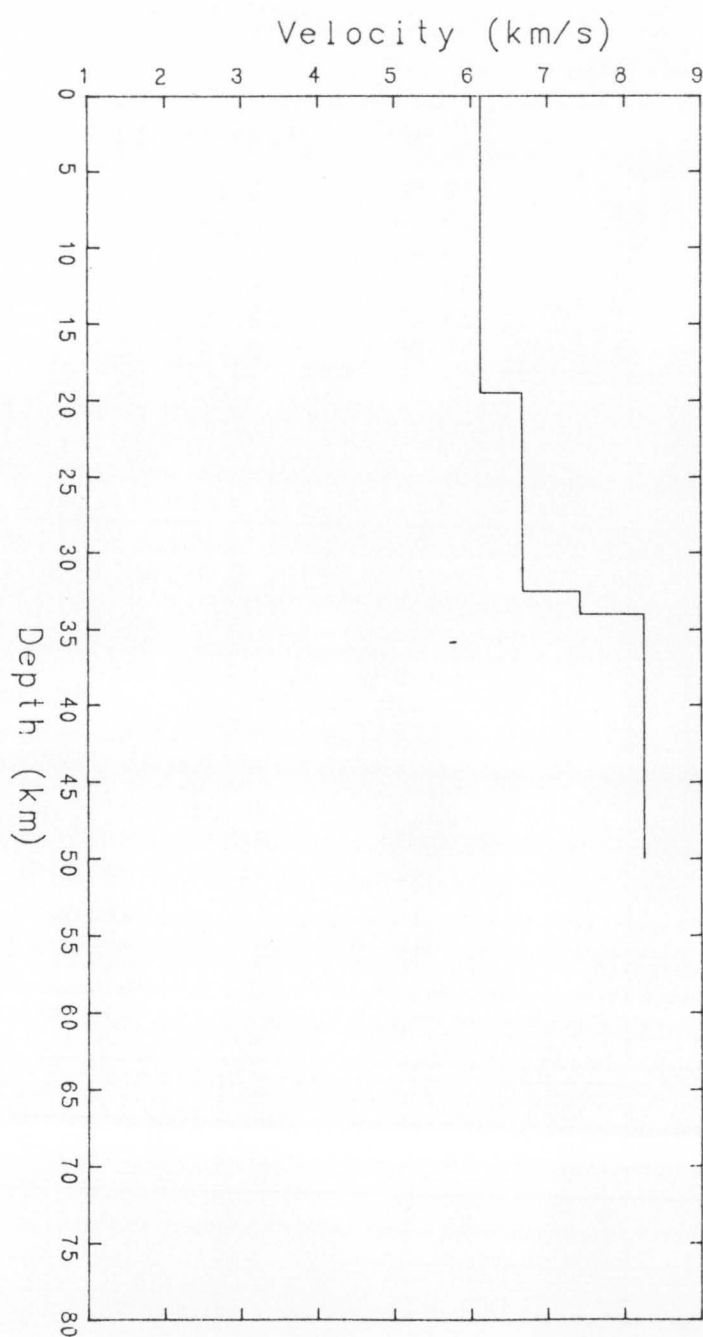
DEPTH (KM)	VELOCITY (KM/S)
0.00	2.20
1.10	3.00
1.30	3.40
2.40	5.00
3.50	5.50
5.00	5.80
8.00	5.90
8.50	5.60
10.00	5.61

PMA01 - GEOTRAVERSE - JUBILEE MINE



DEPTH (KM)	VELOCITY (KM/S)
0.00	6.12
19.50	6.12
19.50	6.67
34.00	6.67
34.00	8.25
50.00	8.25

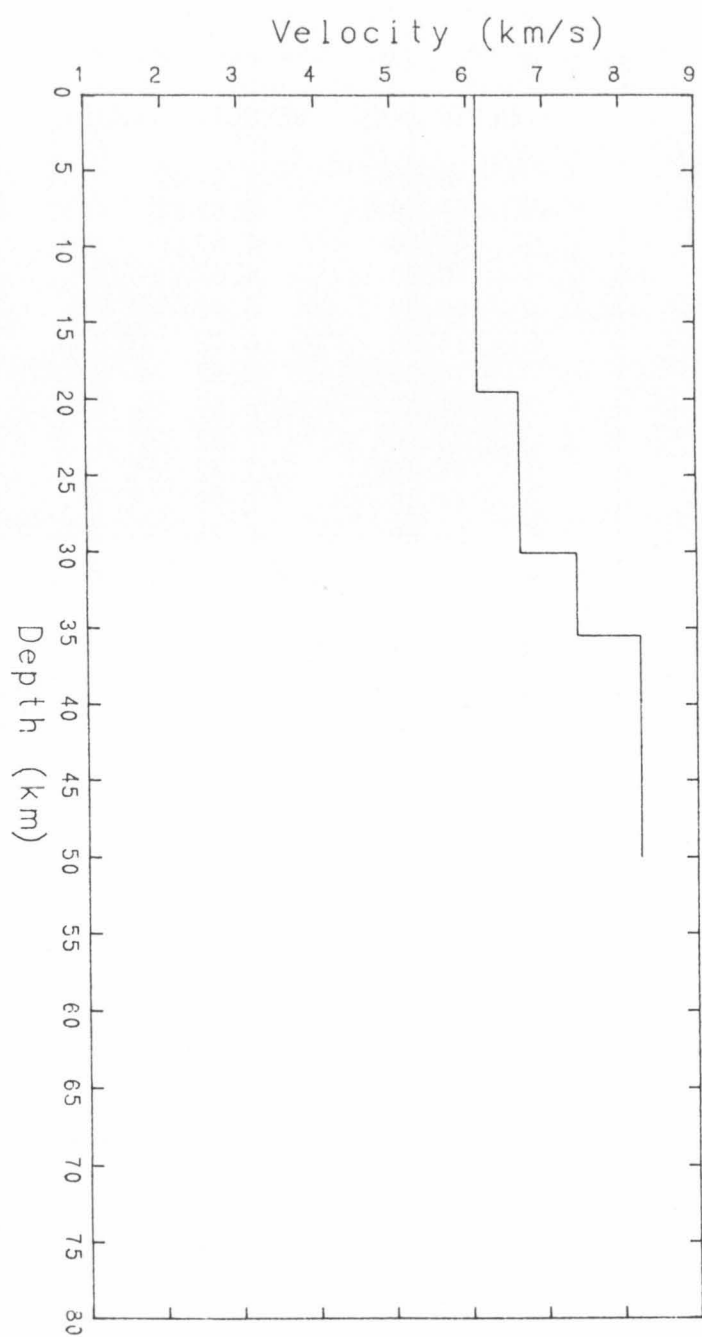
PMA02 - GEOTRAVERSE - COOLGARDIE



DEPTH (KM) VELOCITY (KM/S)

0.00	6.12
19.50	6.12
19.50	6.67
32.50	6.67
32.50	7.42
34.00	7.42
34.00	8.25
50.00	8.25

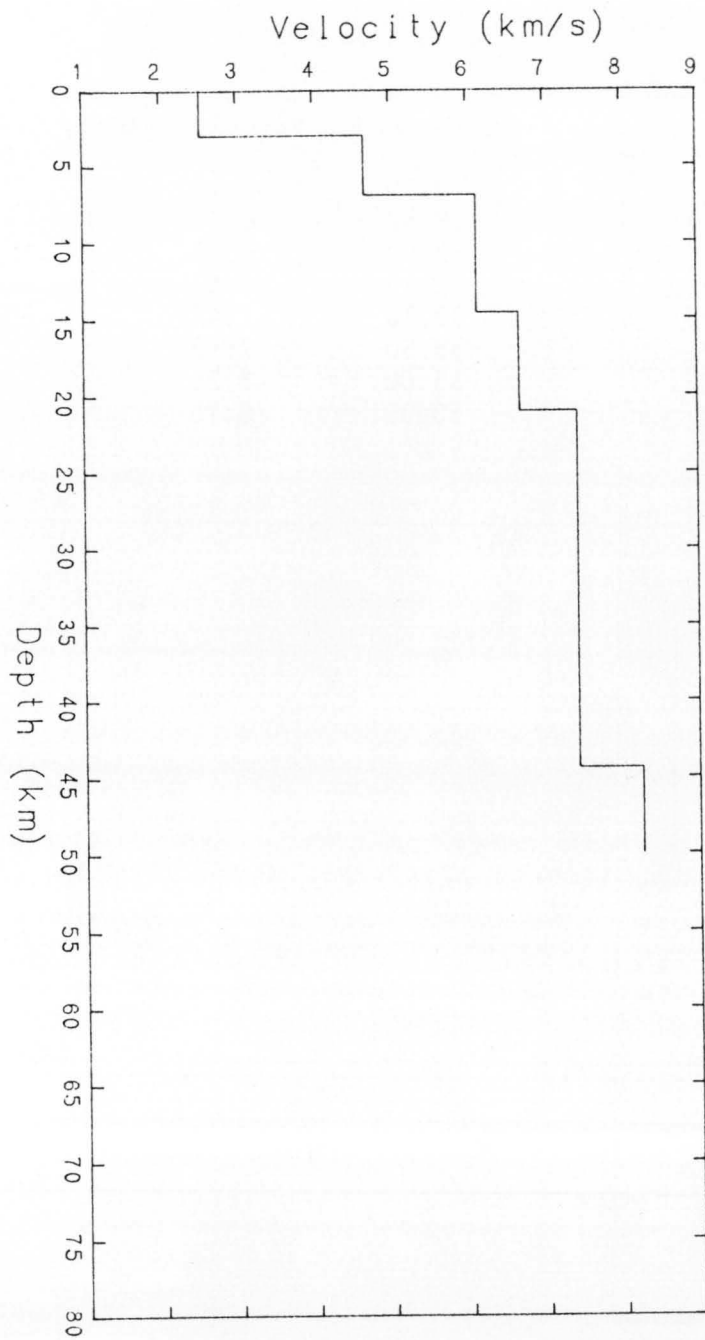
PMA03 - GEOTRAVERSE - BOORABBIN



DEPTH (KM) VELOCITY (KM/S)

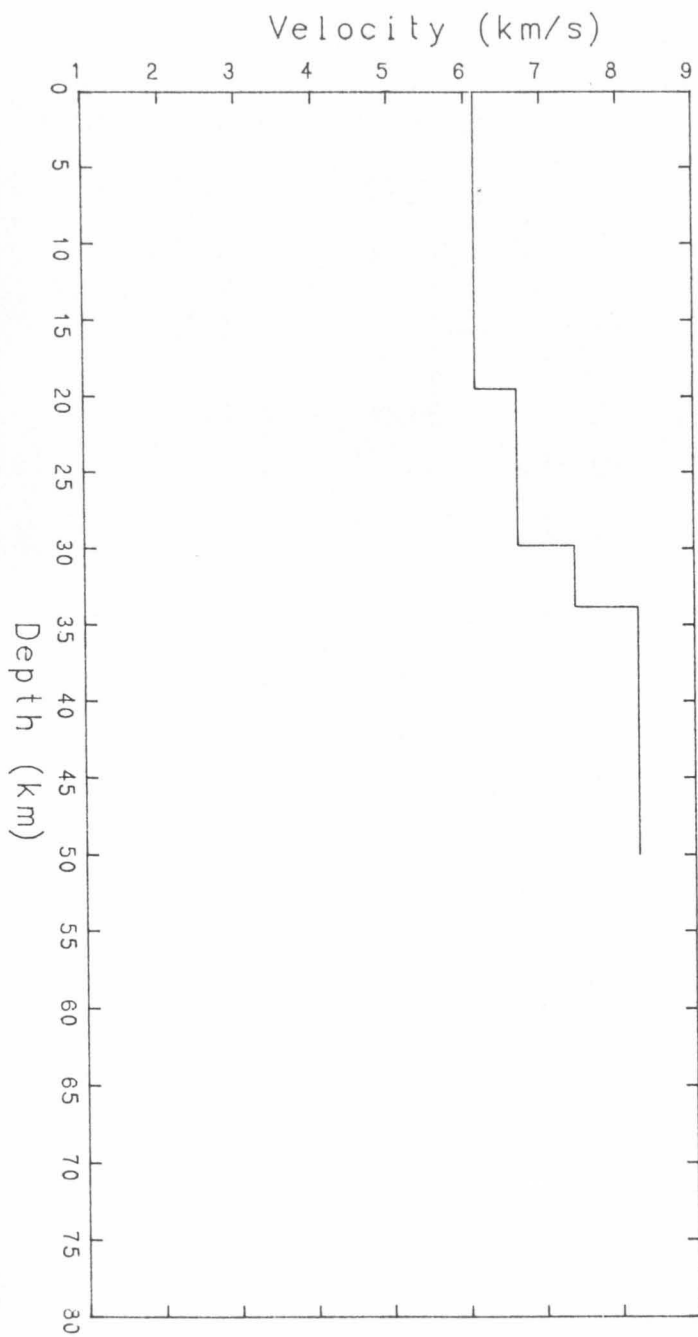
0.00	6.12
19.50	6.12
19.50	6.67
30.10	6.67
30.10	7.42
35.50	7.42
35.50	8.25
50.00	8.25

PMA04 - GEOTRAVERSE - DARLING FAULT



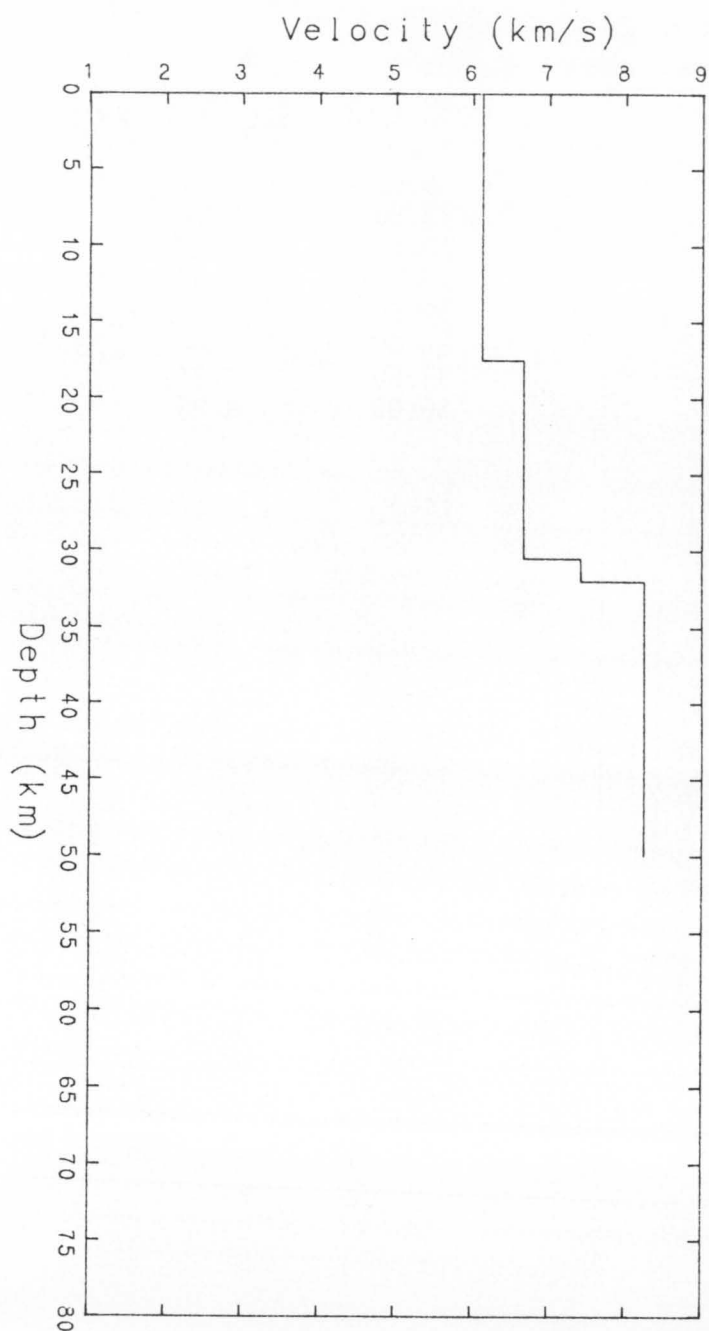
DEPTH (KM)	VELOCITY (KM/S)
0.00	2.52
3.00	2.52
3.00	4.67
6.90	4.67
6.90	6.12
14.60	6.12
14.60	6.67
21.00	6.67
21.00	7.42
44.40	7.42
44.40	8.25
50.00	8.25

PMA05 - GEOTRAVERSE - ALBANY



DEPTH (KM)	VELOCITY (KM/S)
0.00	6.12
19.50	6.12
19.50	6.67
29.80	6.67
29.80	7.42
33.80	7.42
33.80	8.25
50.00	8.25

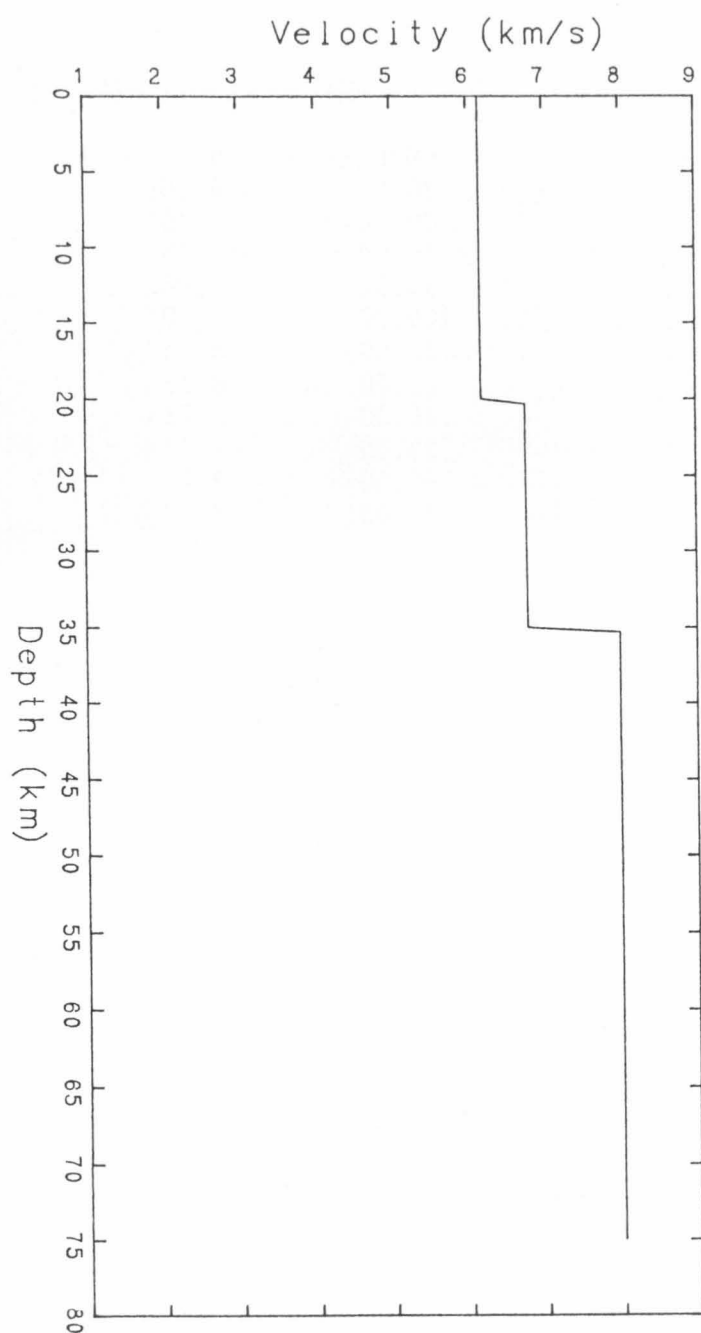
PMA06 - GEOTRAVERSE - POINT CULVER



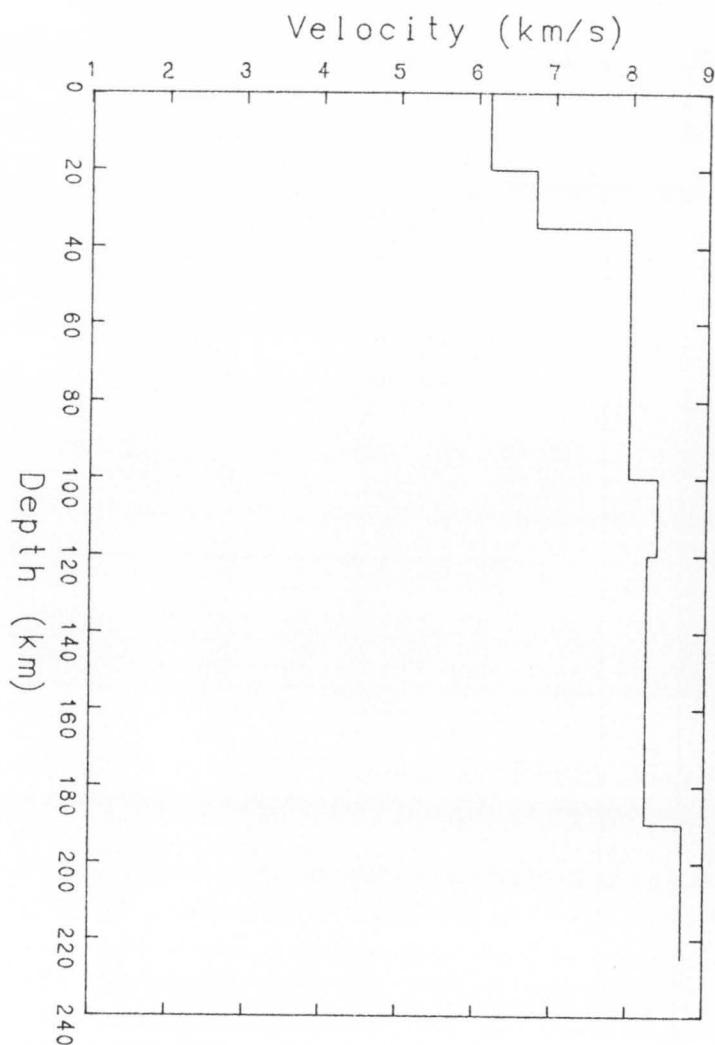
DEPTH (KM) VELOCITY (KM/S)

0.00	6.12
17.50	6.12
17.50	6.67
30.50	6.67
30.50	7.42
32.00	7.42
32.00	8.25
50.00	8.25

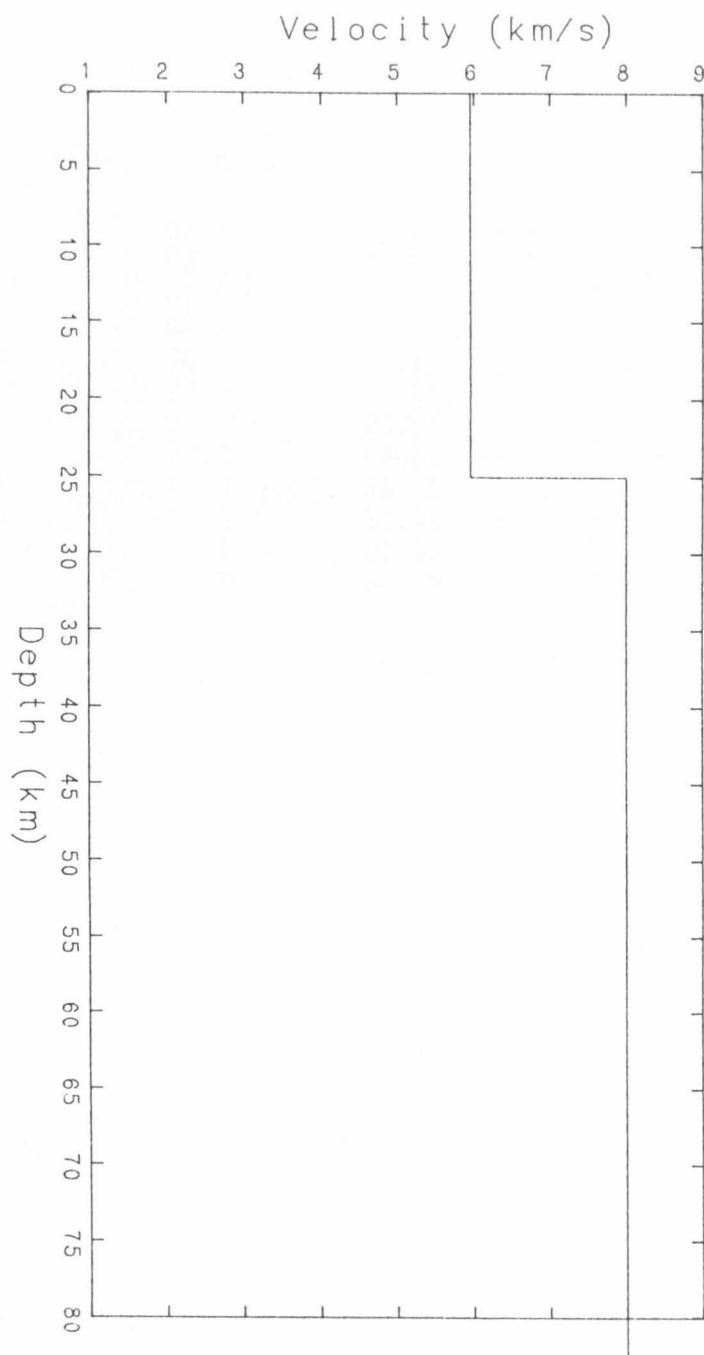
PMU01 - BASS STRAIT TO FLINDERS RANGES



DEPTH (KM)	VELOCITY (KM/S)
0.00	6.15
20.00	6.17
20.30	6.75
35.00	6.77
35.30	7.98
75.00	8.00

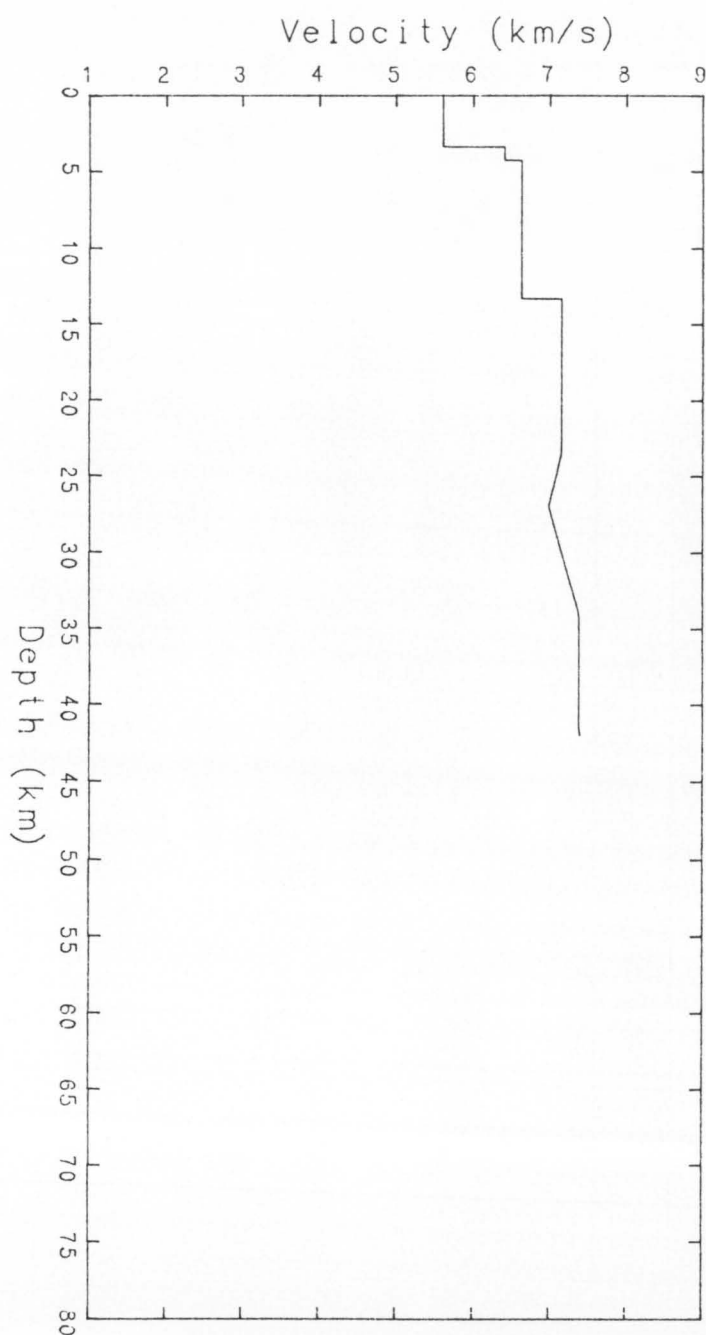


DEPTH (KM)	VELOCITY (KM/S)
0.00	6.15
20.00	6.15
20.00	6.75
35.00	6.75
35.00	7.98
100.00	7.98
100.00	8.36
120.00	8.36
120.00	8.23
190.00	8.23
190.00	8.72
225.00	8.72



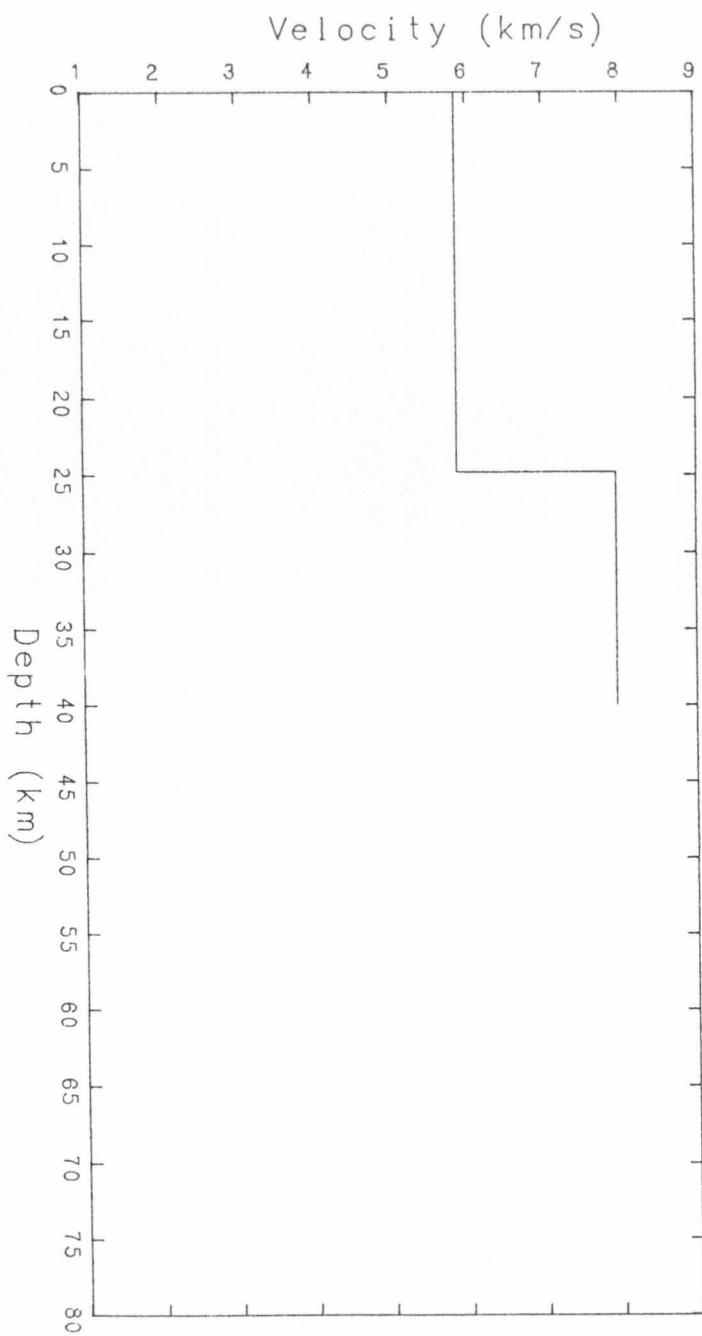
DEPTH (KM)	VELOCITY (KM/S)
0.00	5.95
25.00	5.95
25.00	8.00
100.00	8.00

PPI01 - GUNDARY PLAINS REFLECTION MODEL



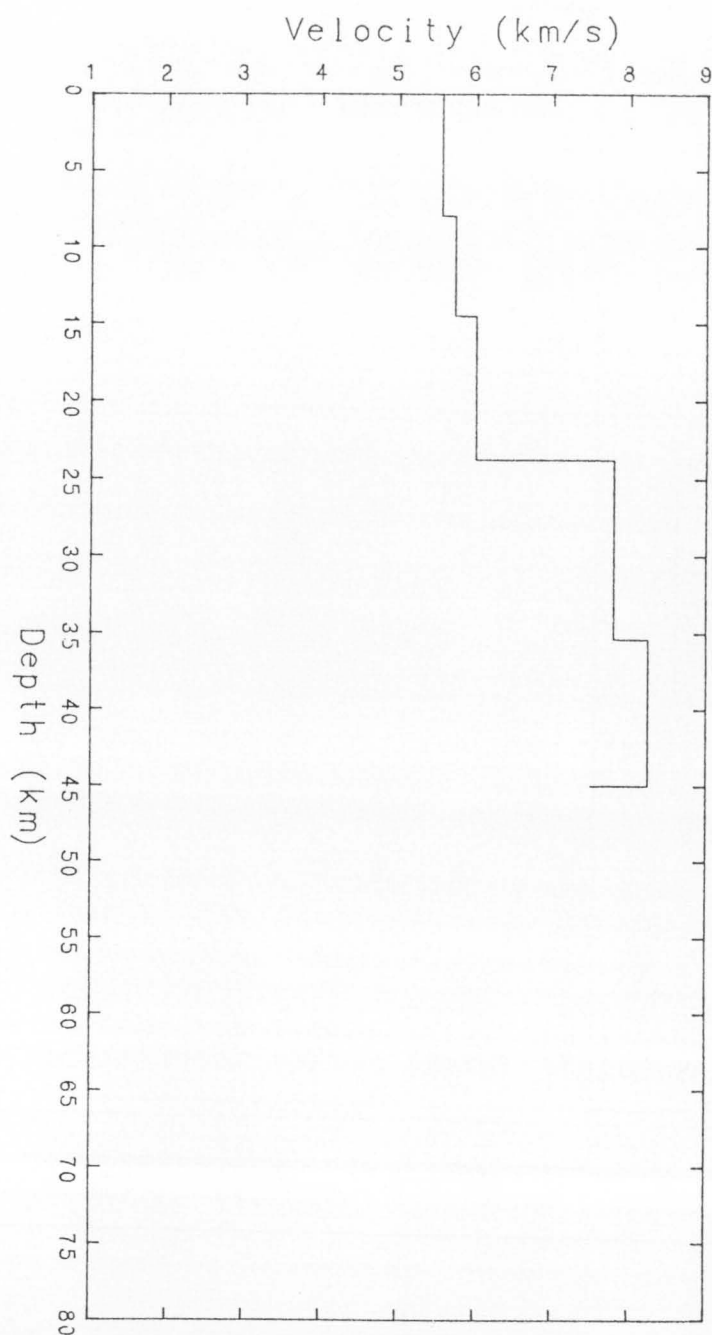
DEPTH (KM) VELOCITY (KM/S)

0.00	5.60
3.40	5.60
3.40	6.40
4.30	6.40
4.30	6.62
13.30	6.62
13.30	7.15
23.40	7.15
27.00	6.98
34.10	7.38
41.40	7.38
42.00	7.40



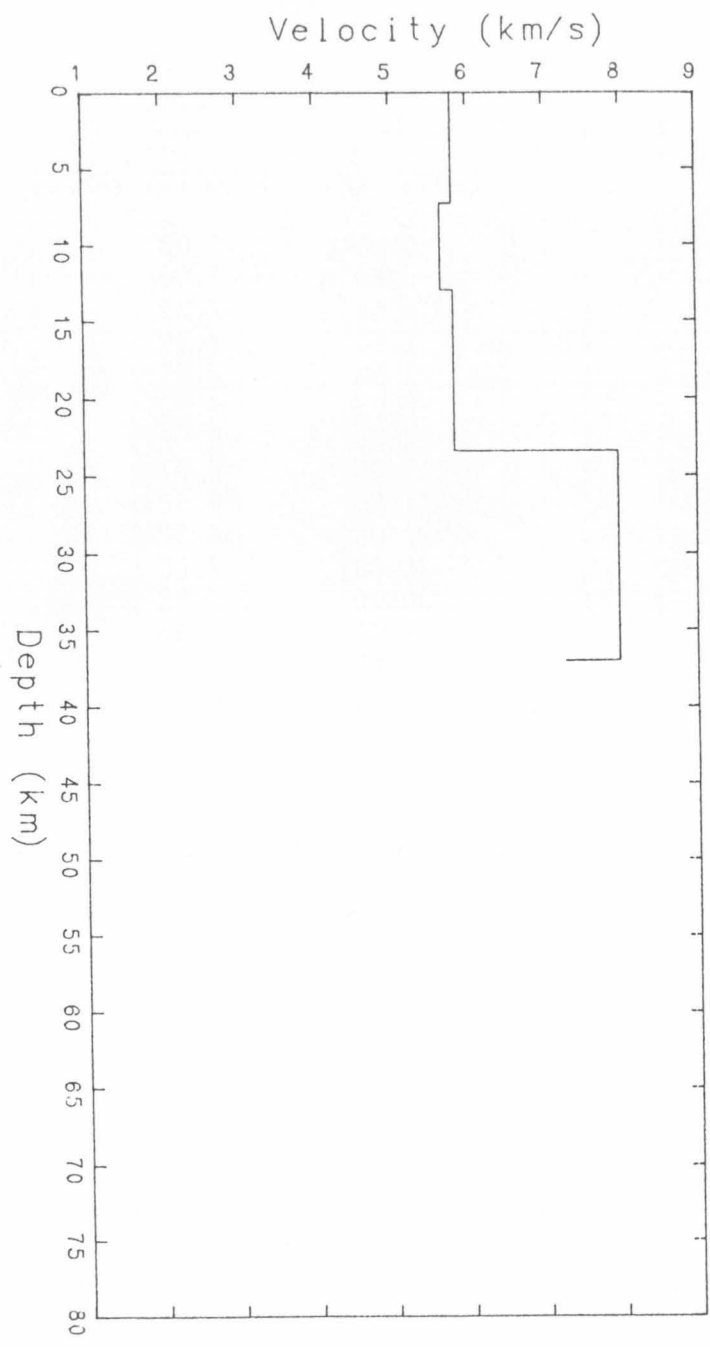
DEPTH (KM)	VELOCITY (KM/S)
0.00	5.86
24.80	5.86
24.80	7.95
40.00	7.95

PRI02 - TASMANIA, SAVAGE RIVER, REFLECTIONS.



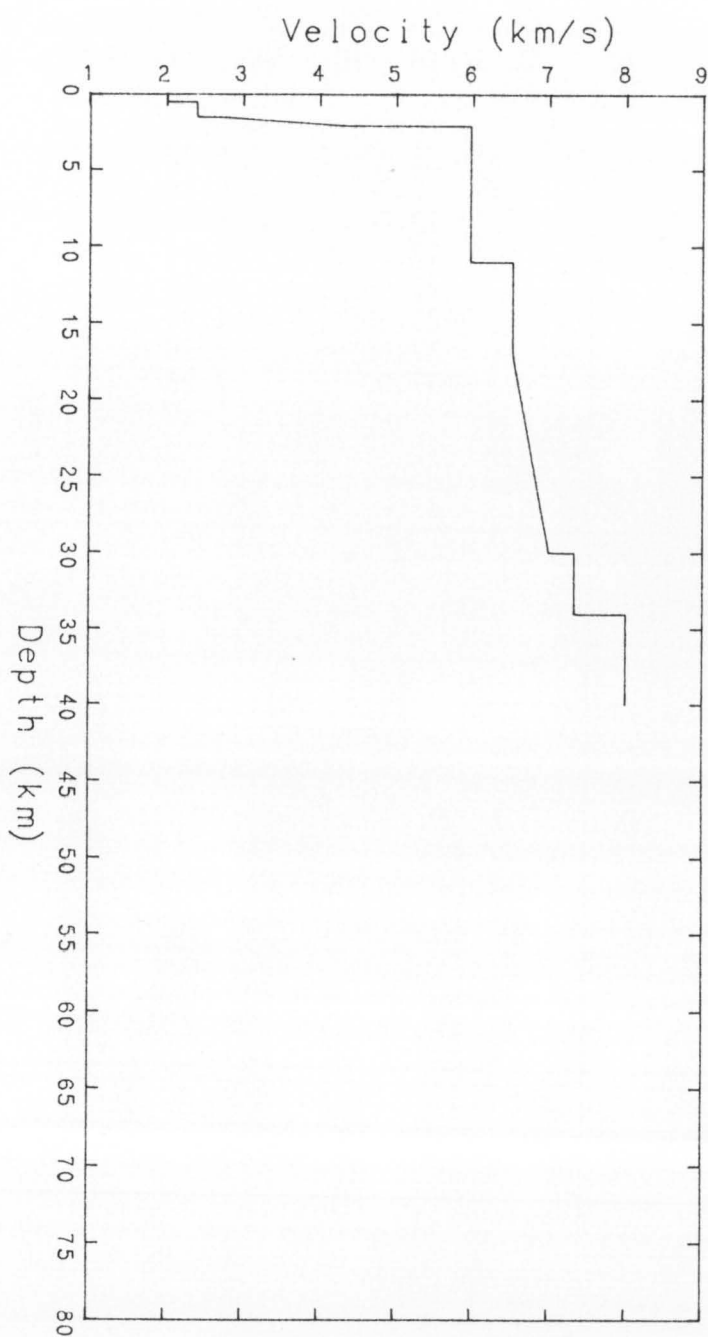
DEPTH (KM)	VELOCITY (KM/S)
0.00	5.55
8.00	5.55
8.00	5.72
14.50	5.72
14.50	6.00
23.80	6.00
23.80	7.80
35.40	7.80
35.40	8.24
45.00	8.24
45.00	7.50

PRI03 - TASMANIA, BINALONG BAY, REFLECTIONS



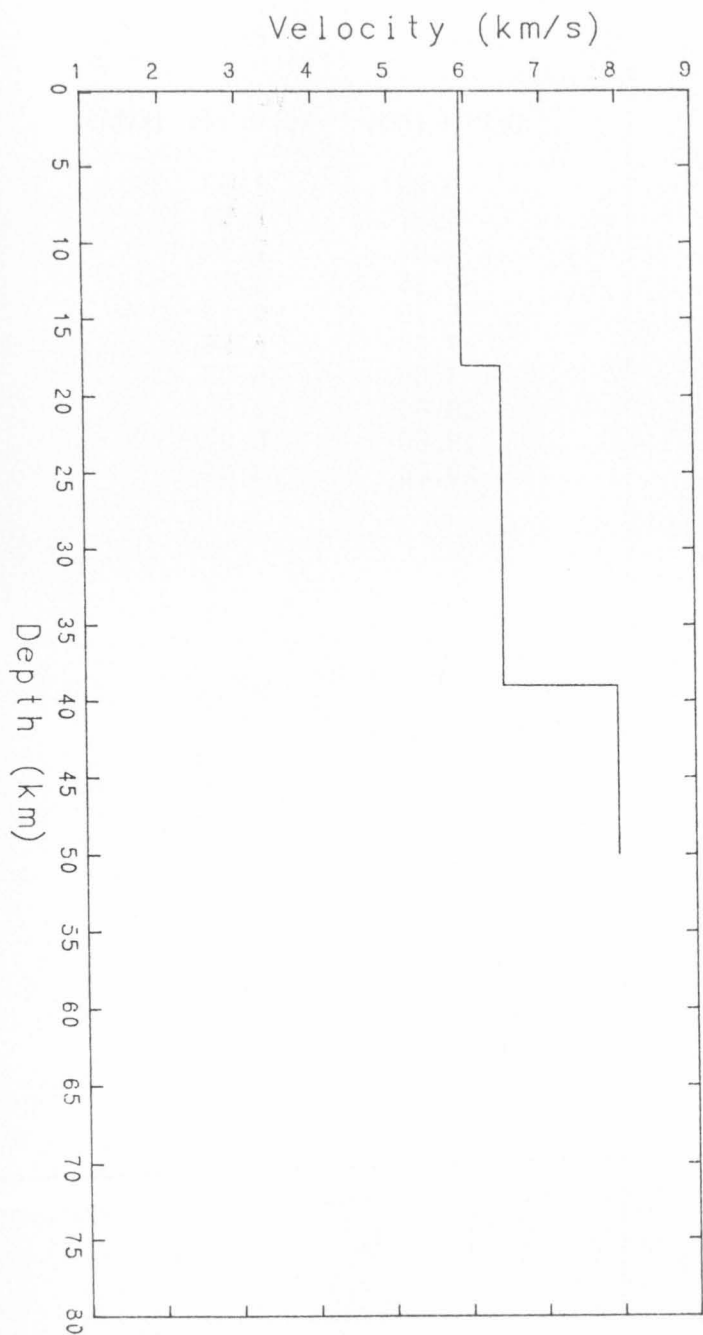
DEPTH (KM)	VELOCITY (KM/S)
0.00	5.80
7.30	5.80
7.30	5.65
13.00	5.65
13.00	5.81
23.40	5.81
23.40	7.96
37.00	7.96
37.00	7.25

PRY01 - WESTERN ARAFURA SEA

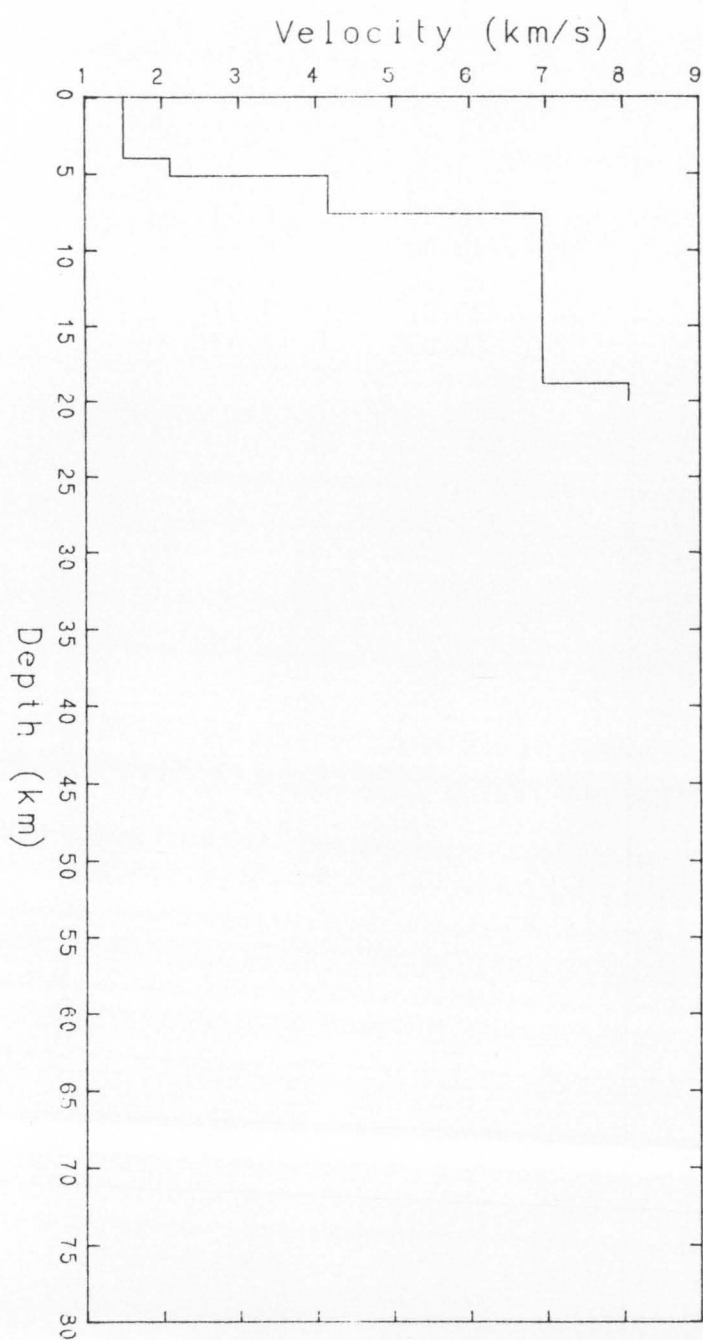


DEPTH (KM)	VELOCITY (KM/S)
0.00	2.00
.50	2.00
.50	2.39
1.50	2.39
1.50	2.73
2.08	4.32
2.08	5.97
11.00	5.97
11.00	6.52
17.00	6.52
30.00	7.00
30.00	7.33
34.00	7.33
34.00	8.00
40.00	8.00

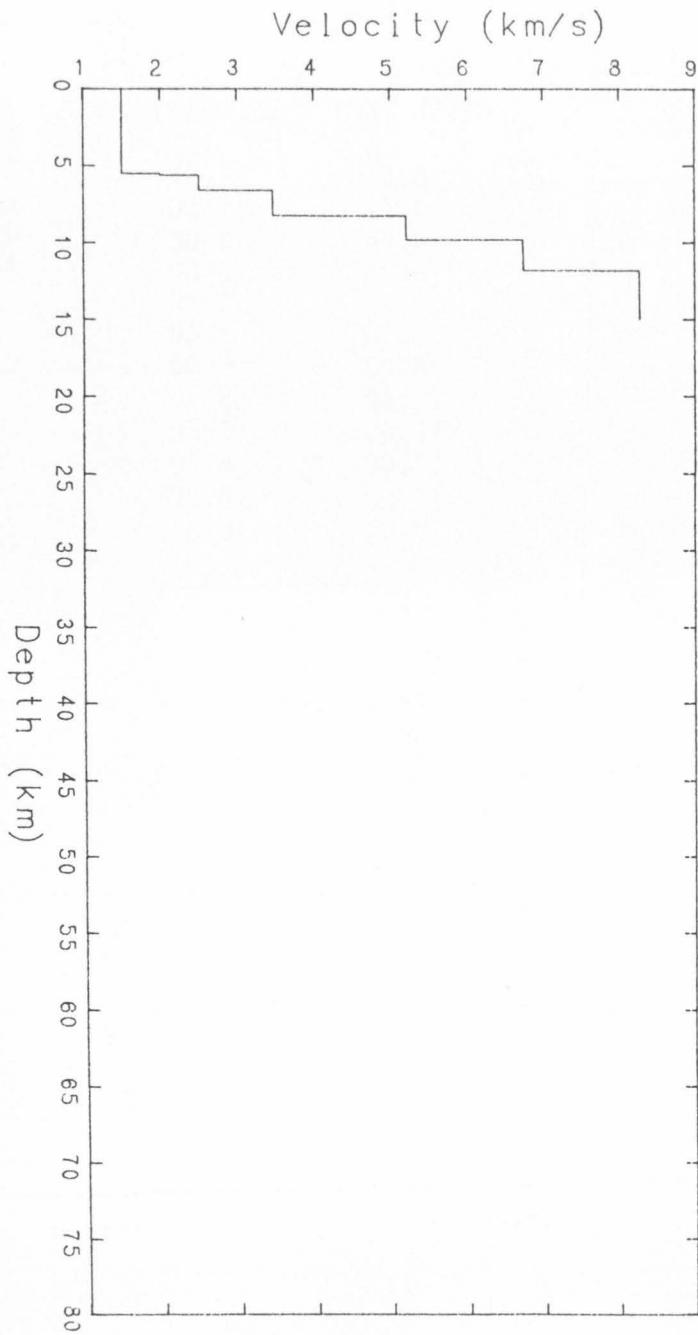
PSH01 - SOUTH AUSTRALIA - P WAVE



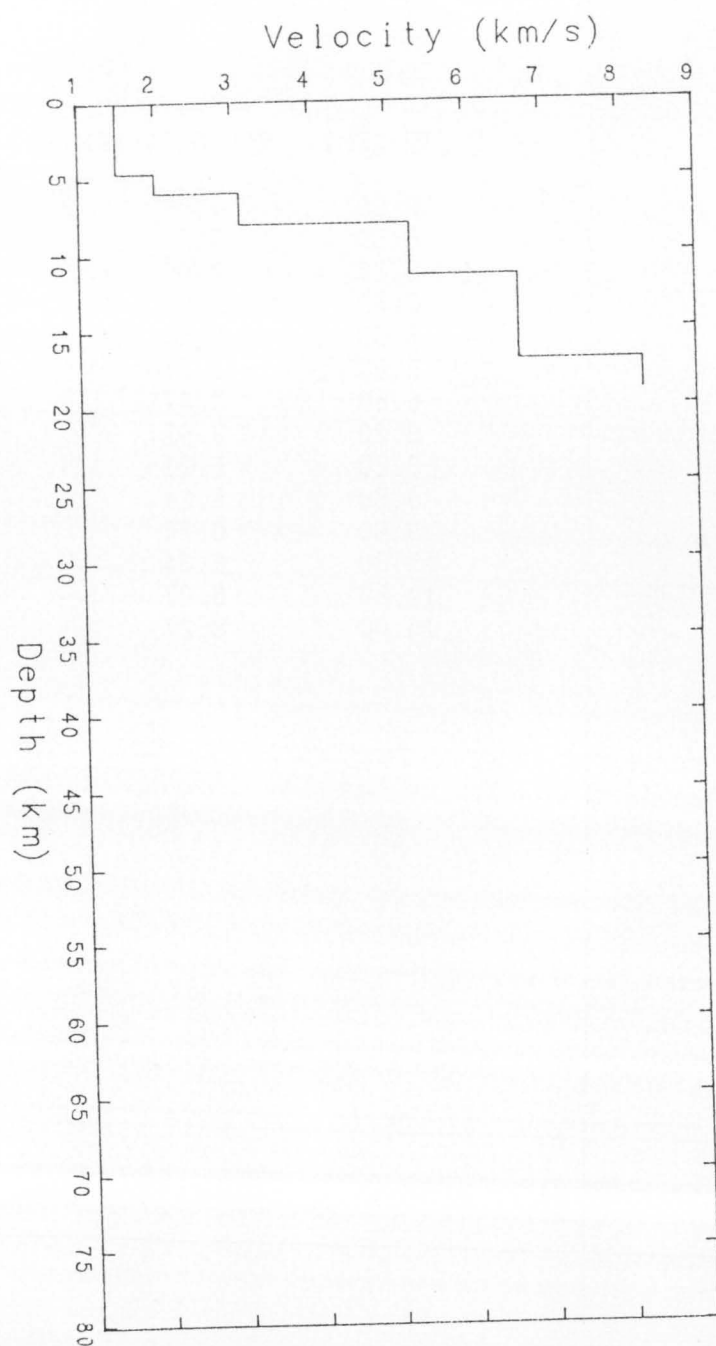
DEPTH (KM)	VELOCITY (KM/S)
0.00	5.94
18.00	5.94
18.00	6.46
39.00	6.46
39.01	7.97
50.00	7.97



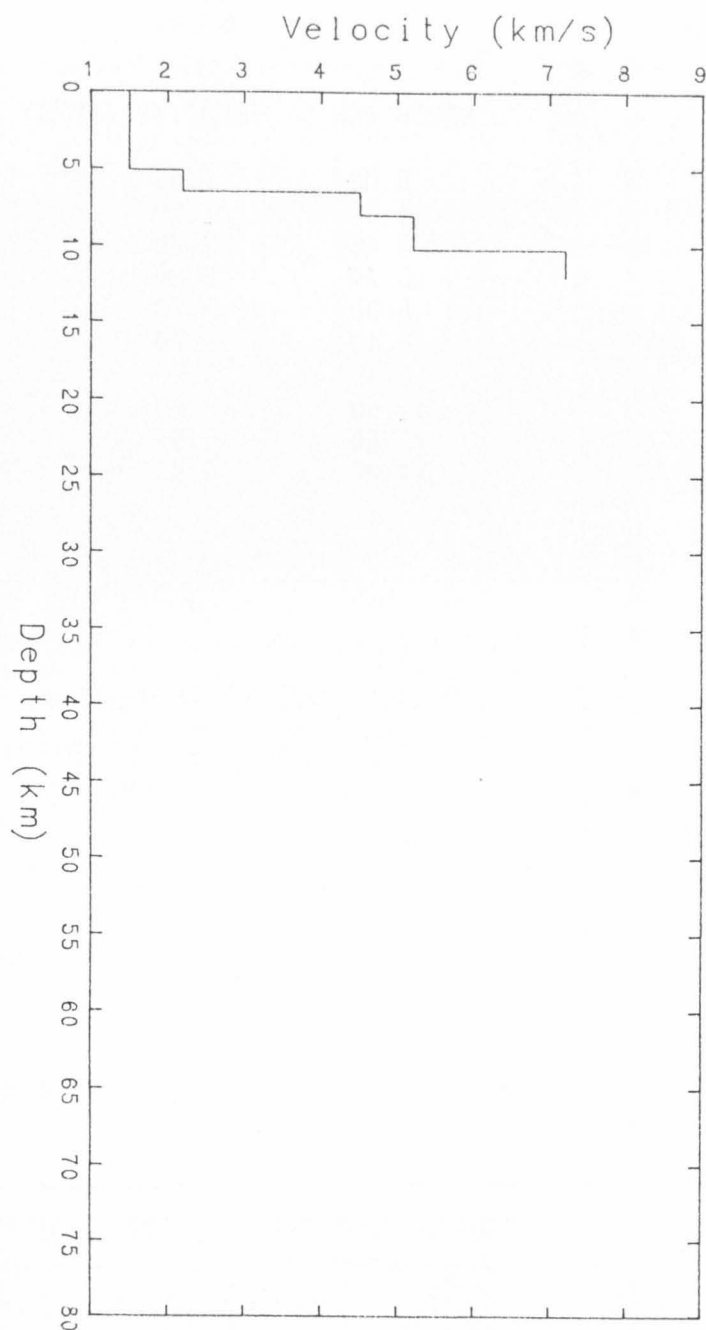
DEPTH (KM)	VELOCITY (KM/S)
0.00	1.53
4.01	1.53
4.01	2.11
5.15	2.11
5.15	4.16
7.65	4.16
7.65	6.95
18.80	6.95
18.80	8.07
20.00	8.07



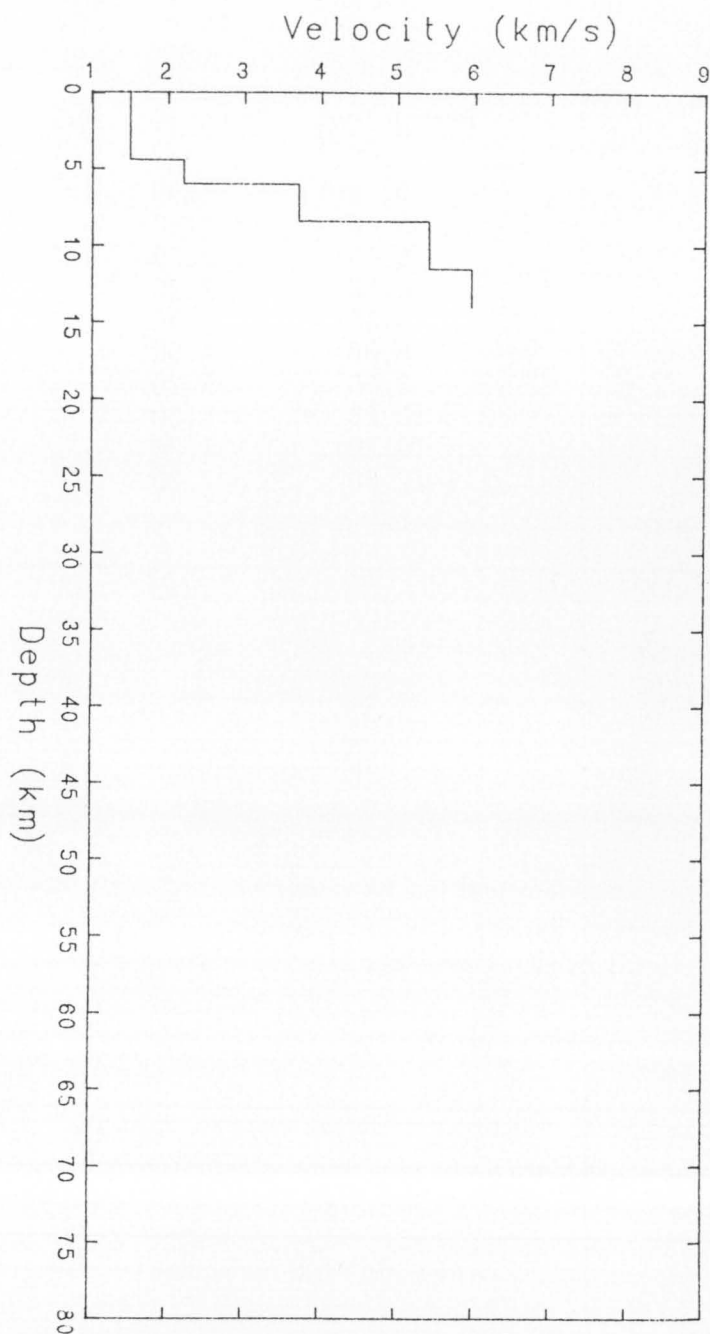
DEPTH (KM)	VELOCITY (KM/S)
0.00	1.50
5.50	1.50
5.50	2.00
5.60	2.00
5.60	2.51
6.60	2.51
6.60	3.47
8.20	3.47
8.20	5.21
9.80	5.21
9.80	6.74
11.80	6.74
11.80	8.27
15.00	8.27



DEPTH (KM)	VELOCITY (KM/S)
0.00	1.50
4.60	1.50
4.60	2.00
5.90	2.00
5.90	3.10
8.00	3.10
8.00	5.30
11.40	5.30
11.40	6.70
17.00	6.70
17.00	8.30
19.00	8.30

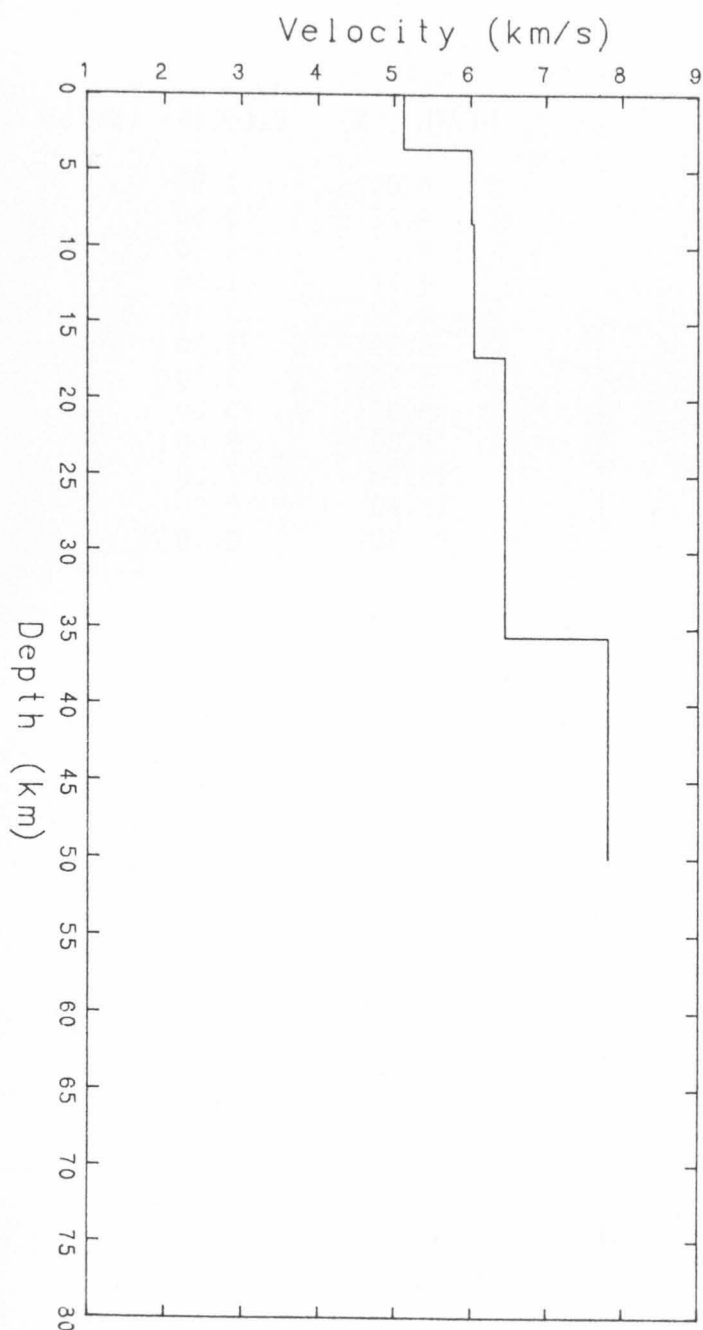


DEPTH (KM)	VELOCITY (KM/S)
0.00	1.50
5.10	1.50
5.10	2.20
6.50	2.20
6.50	4.50
8.00	4.50
8.00	5.20
10.20	5.20
10.20	7.20
12.00	7.20



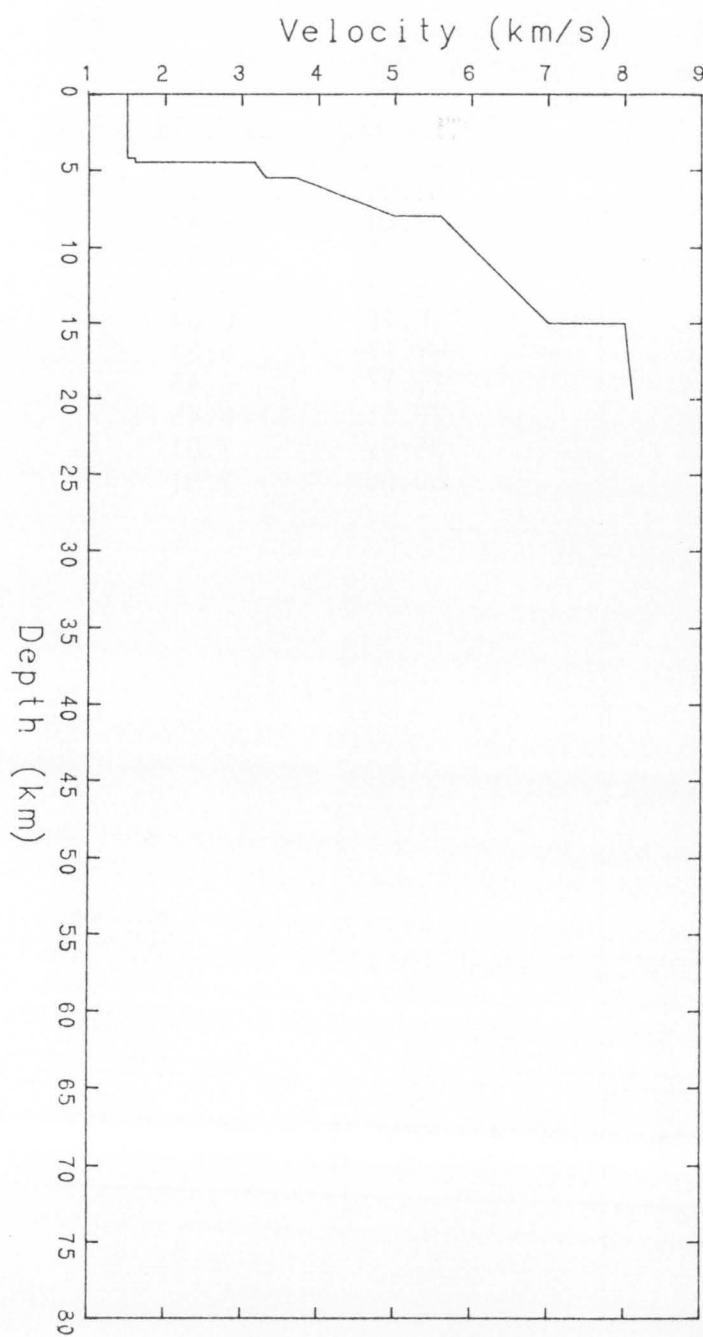
DEPTH (KM) VELOCITY (KM/S)

0.00	1.50
4.40	1.50
4.40	2.20
6.00	2.20
6.00	3.70
8.40	3.70
8.40	5.40
11.50	5.40
11.50	5.95
14.00	5.95



DEPTH (KM) VELOCITY (KM/S)

0.00	5.12
3.63	5.12
3.63	6.01
8.46	6.01
8.46	6.04
17.17	6.04
17.17	6.45
35.61	6.45
35.61	7.81
50.00	7.81

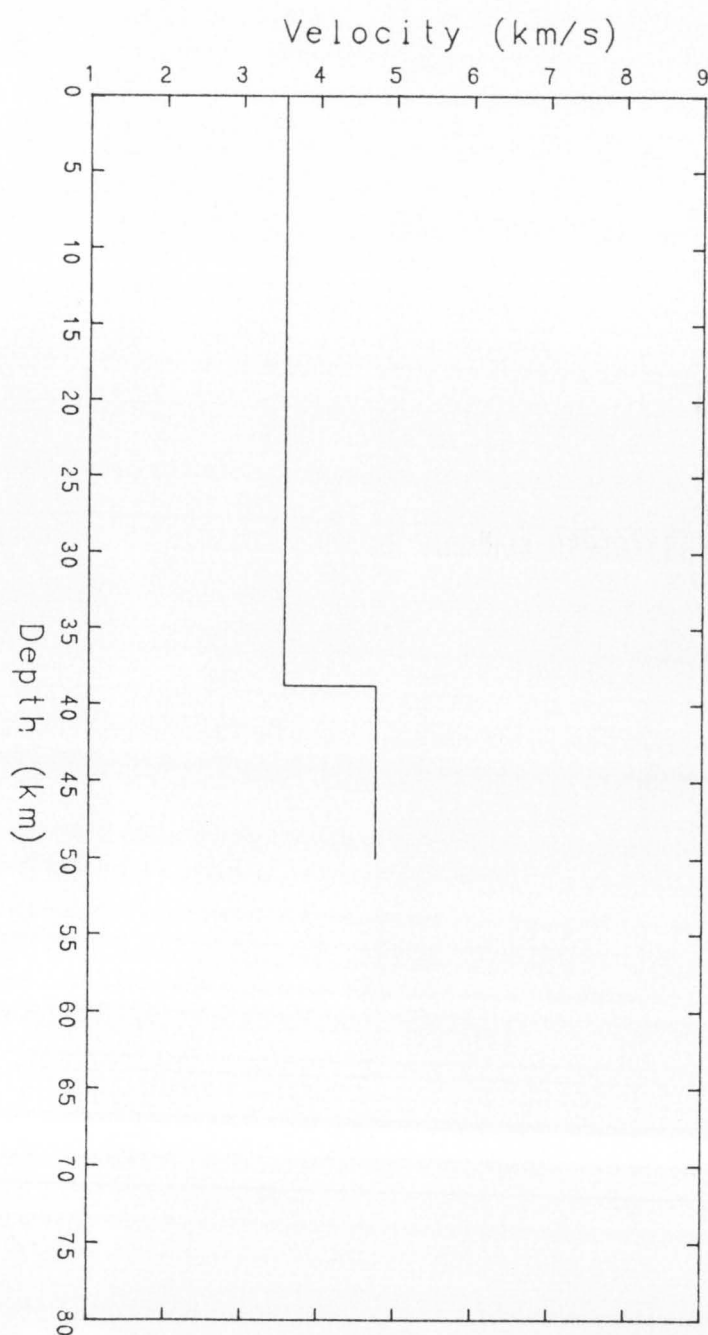


DEPTH (KM) VELOCITY (KM/S)

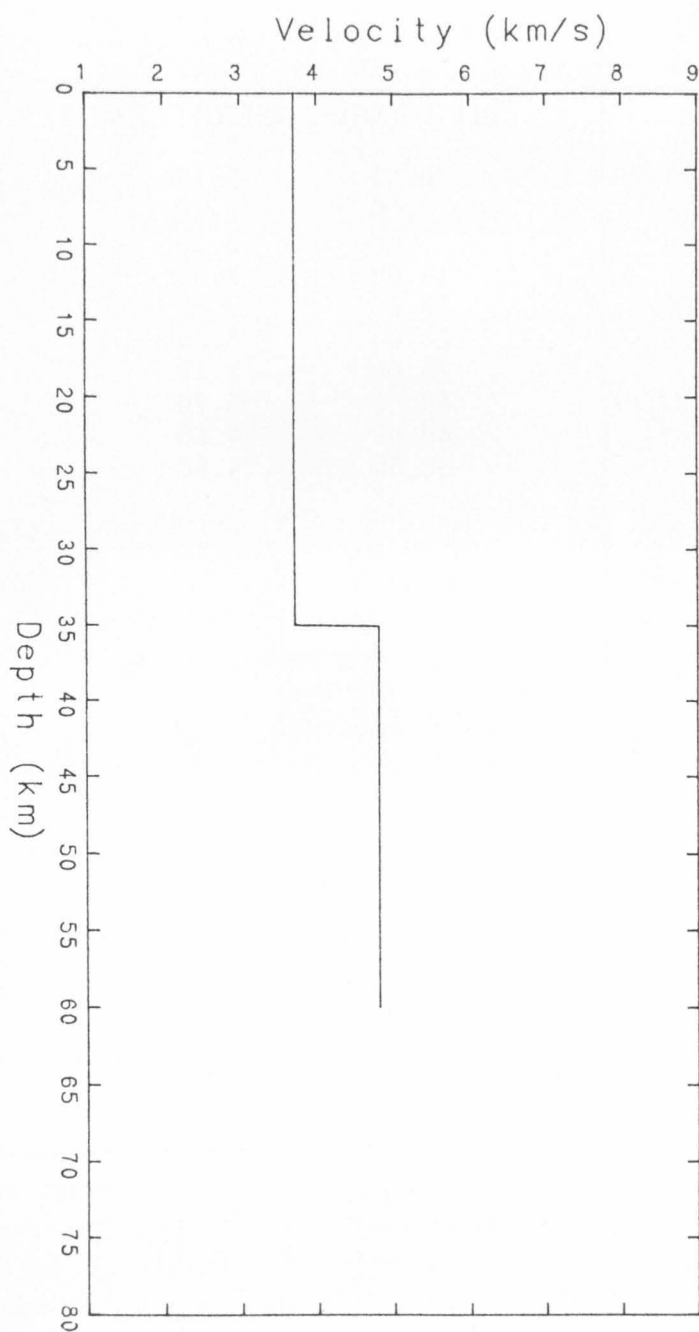
0.00	1.50
4.22	1.50
4.22	1.60
4.52	1.60
4.52	3.16
5.50	3.30
5.50	3.70
8.00	5.00
8.00	5.60
15.00	7.00
15.00	8.00
20.00	8.10

S-WAVE VELOCITY-DEPTH CURVES

SB001 - MARALINGA WEST - SHEAR WAVES

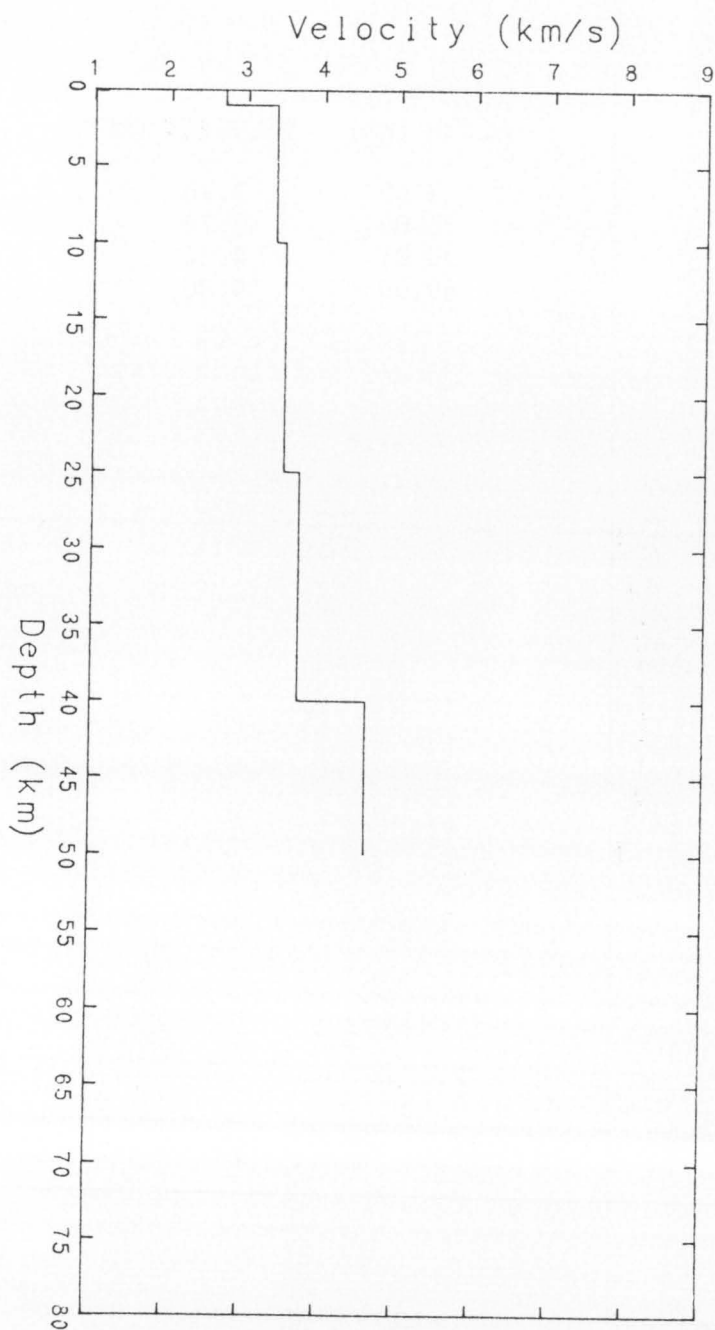


DEPTH (KM)	VELOCITY (KM/S)
0.00	3.55
38.80	3.55
38.80	4.75
50.00	4.75



DEPTH (KM)	VELOCITY (KM/S)
0.00	3.70
35.00	3.70
35.01	4.80
60.00	4.80

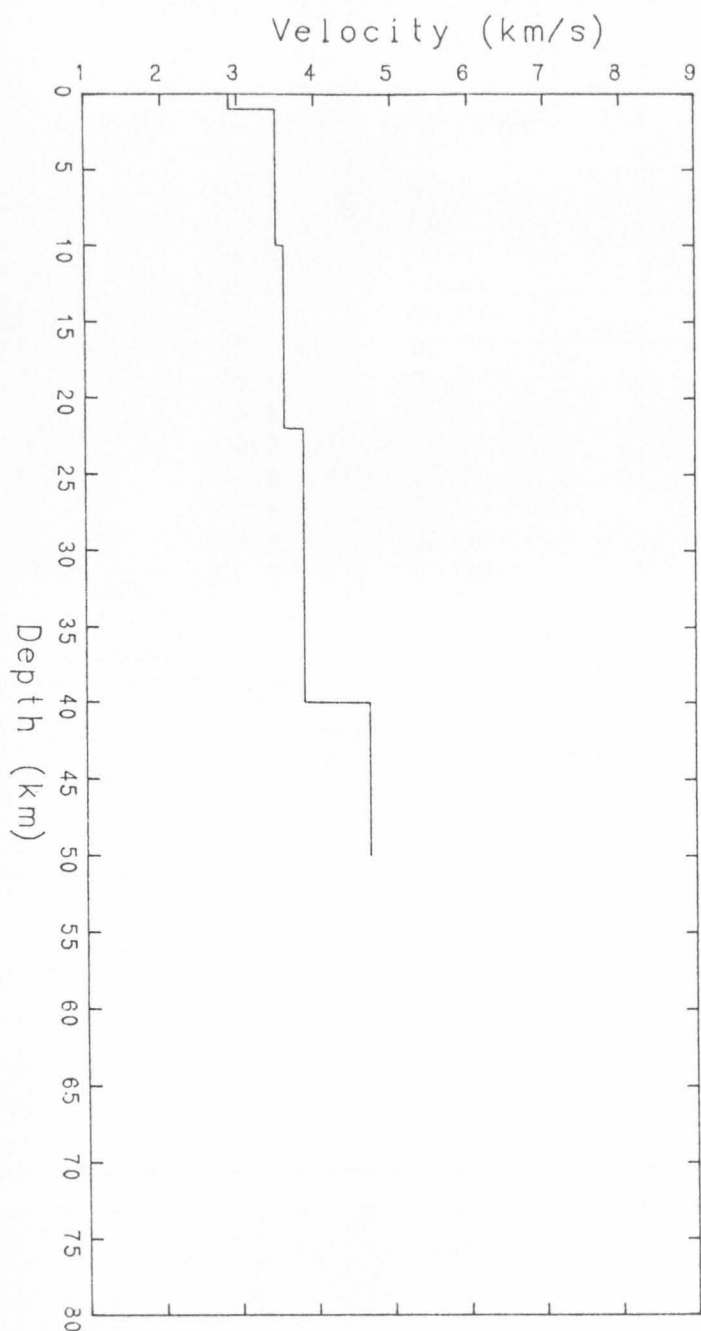
SDE01 - WG TO ADE SURFACE WAVE MODEL



DEPTH (KM) VELOCITY (KM/S)

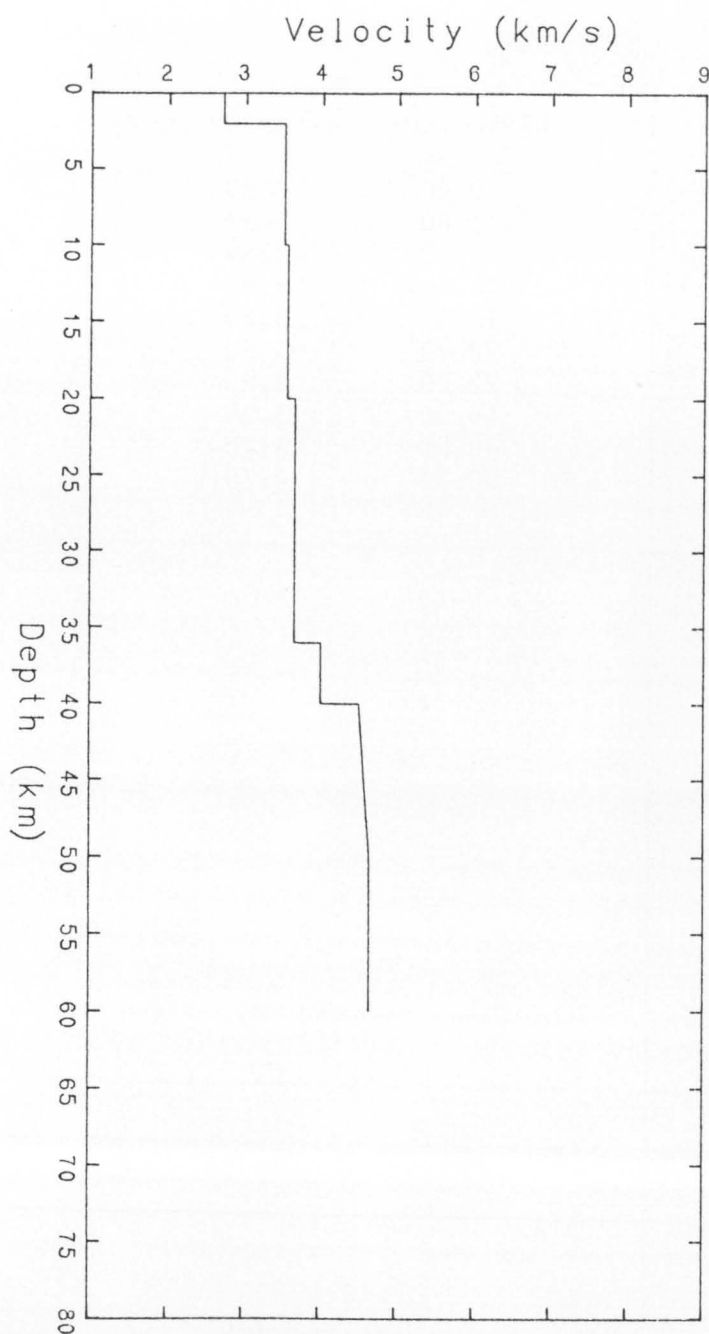
0.00	2.70
1.00	2.70
1.00	3.38
10.00	3.38
10.00	3.50
25.00	3.50
25.00	3.70
40.00	3.70
40.00	4.60
50.00	4.60

SDE02 - WG TO RIV SURFACE WAVE MODEL

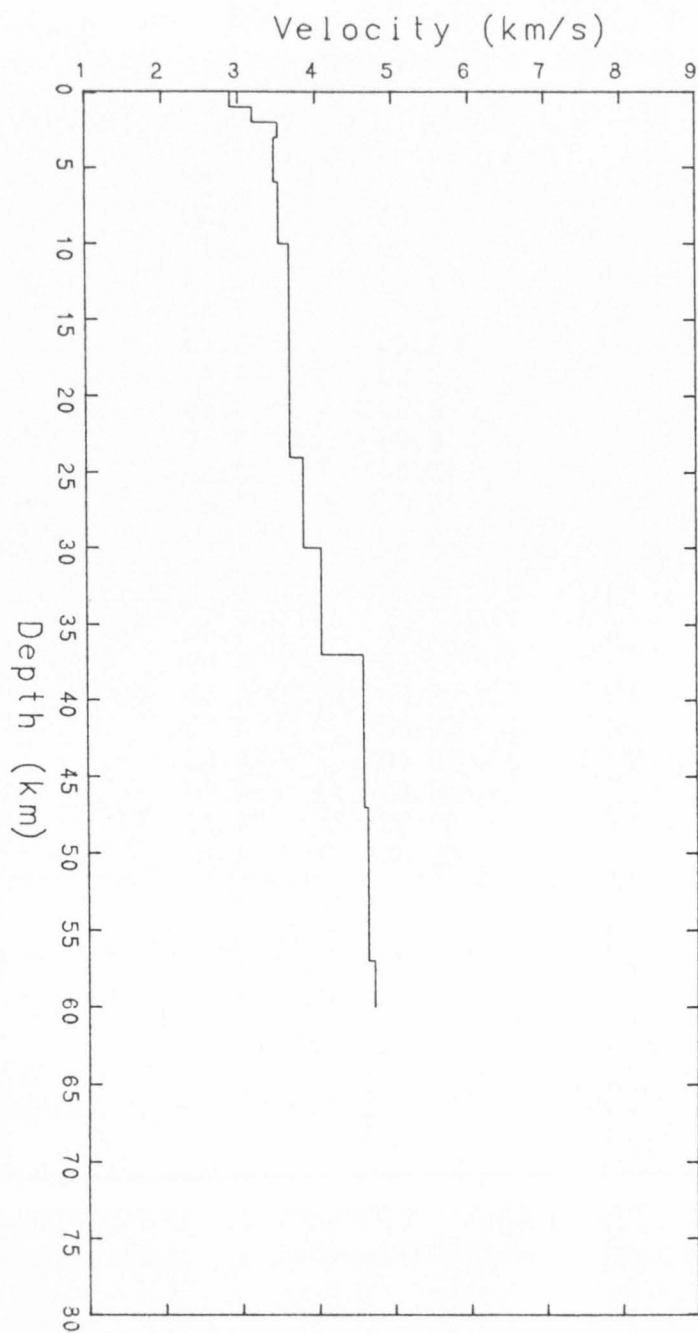


DEPTH (KM)	VELOCITY (KM/S)
0.00	2.89
1.00	2.89
1.00	3.50
10.00	3.50
10.00	3.60
22.00	3.60
22.00	3.85
40.00	3.85
40.00	4.70
50.00	4.70

SDE03 - WG TO TAU SURFACE WAVE MODEL

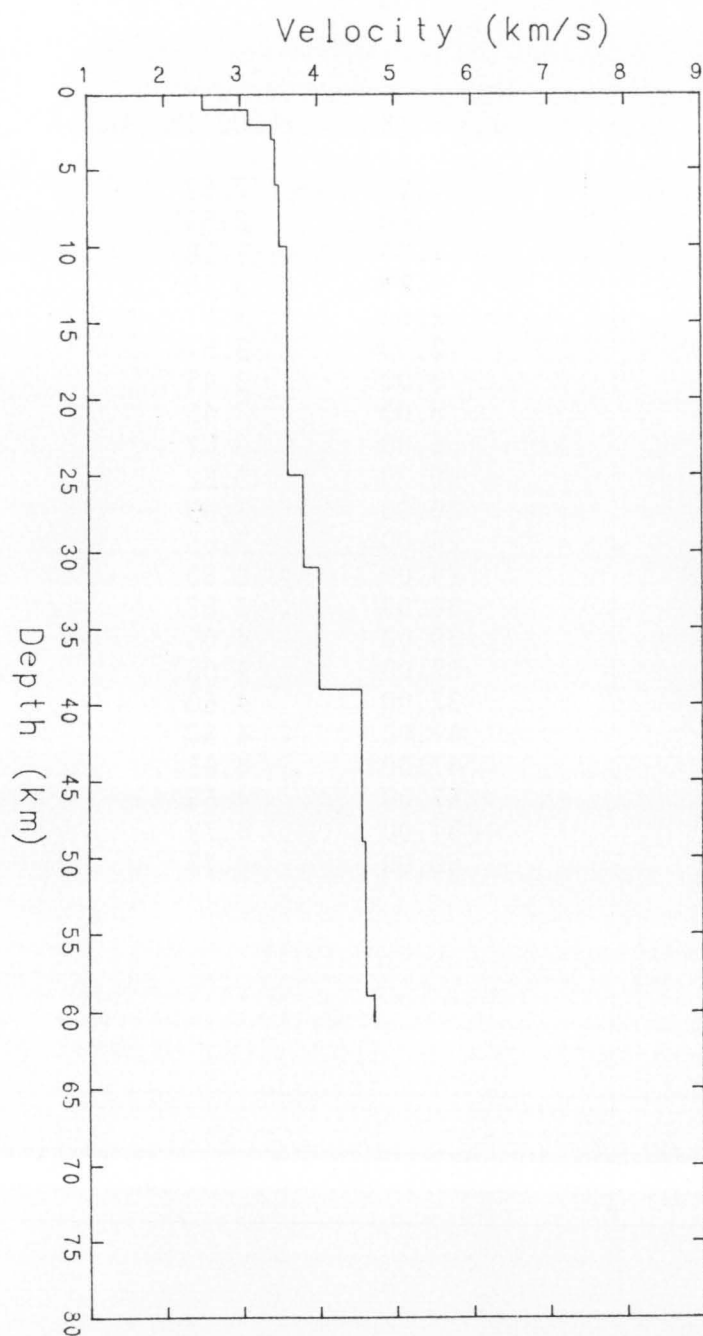


DEPTH (KM)	VELOCITY (KM/S)
0.00	2.70
2.00	2.70
2.00	3.50
10.00	3.50
10.00	3.55
20.00	3.55
20.00	3.65
36.00	3.65
36.00	4.00
40.00	4.00
40.00	4.50
50.00	4.65
60.00	4.65

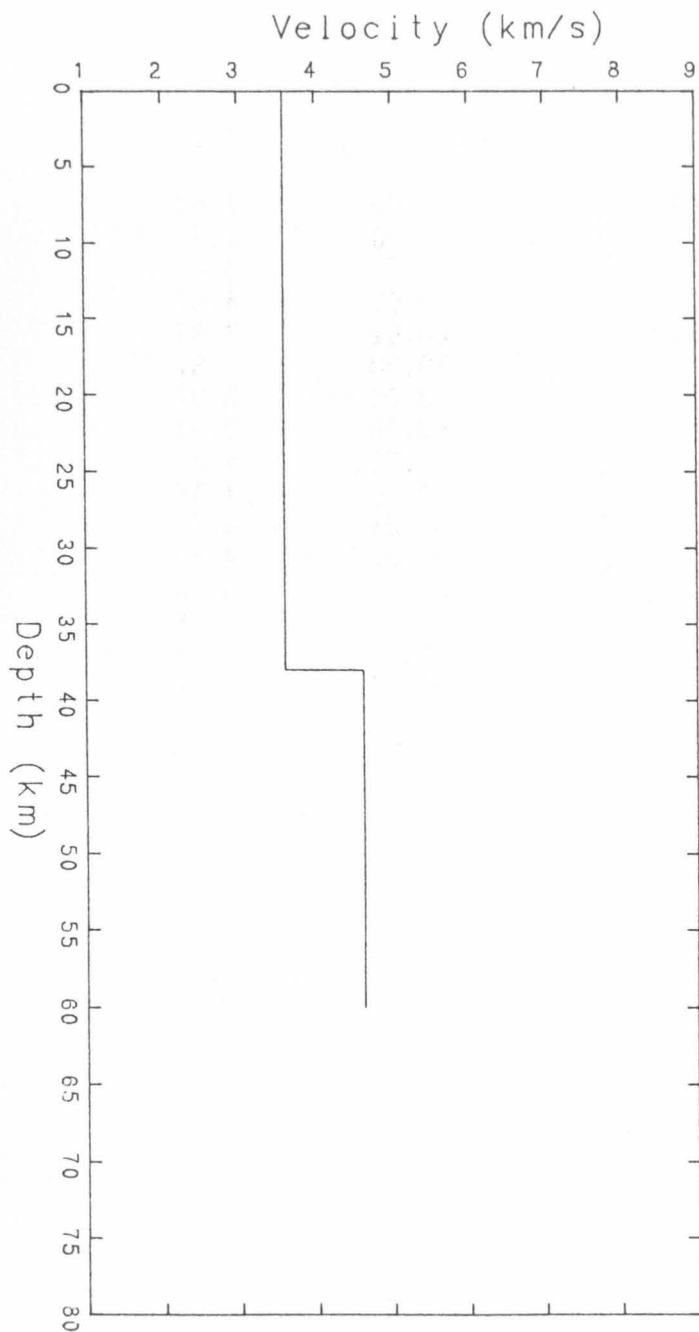


DEPTH (KM) VELOCITY (KM/S)

0.00	2.89
1.00	2.89
1.00	3.18
2.00	3.18
2.00	3.51
3.00	3.51
3.00	3.46
6.00	3.46
6.00	3.52
10.00	3.52
10.00	3.65
24.00	3.65
24.00	3.82
30.00	3.82
30.00	4.05
37.00	4.05
37.00	4.60
47.00	4.60
47.00	4.65
57.00	4.65
57.00	4.73
60.00	4.73

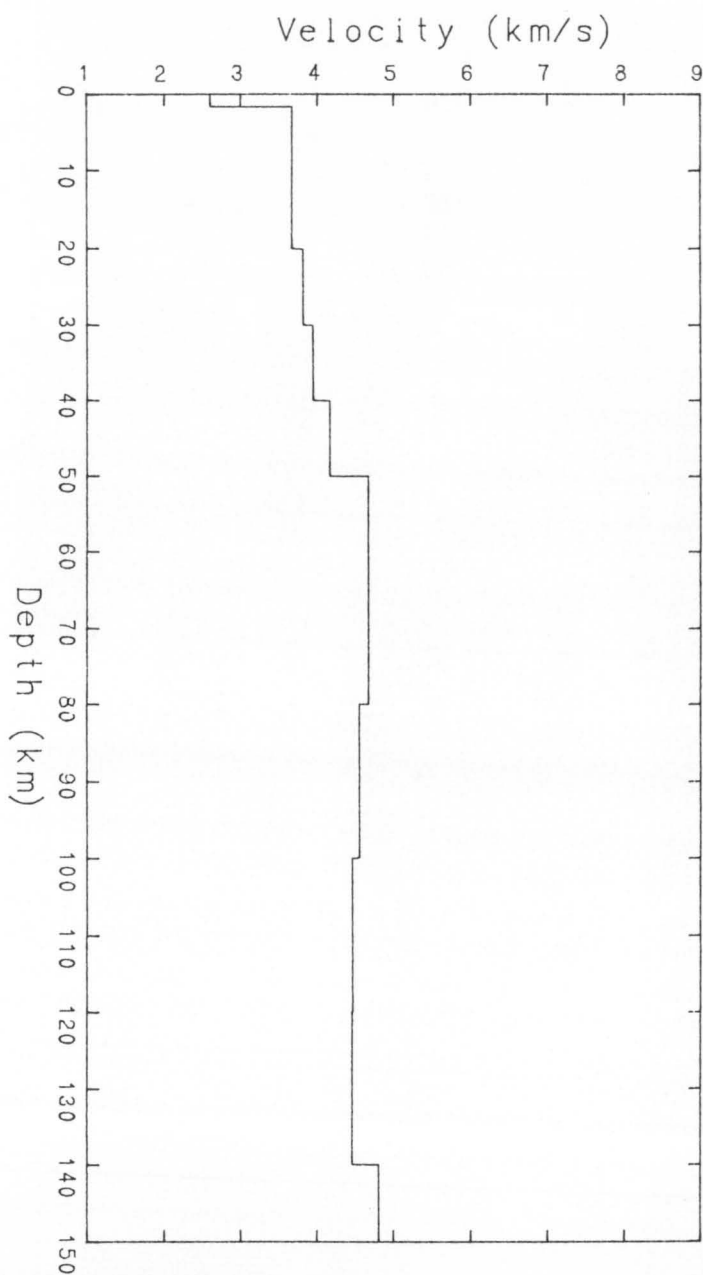


DEPTH (KM)	VELOCITY (KM/S)
0.00	2.50
1.00	2.50
1.00	3.10
2.00	3.10
2.00	3.40
3.00	3.40
3.00	3.45
6.00	3.45
6.00	3.50
10.00	3.50
10.00	3.60
25.00	3.60
25.00	3.80
31.00	3.80
31.00	4.00
39.00	4.00
39.00	4.55
49.00	4.55
49.00	4.60
59.00	4.60
59.00	4.70
60.00	4.70

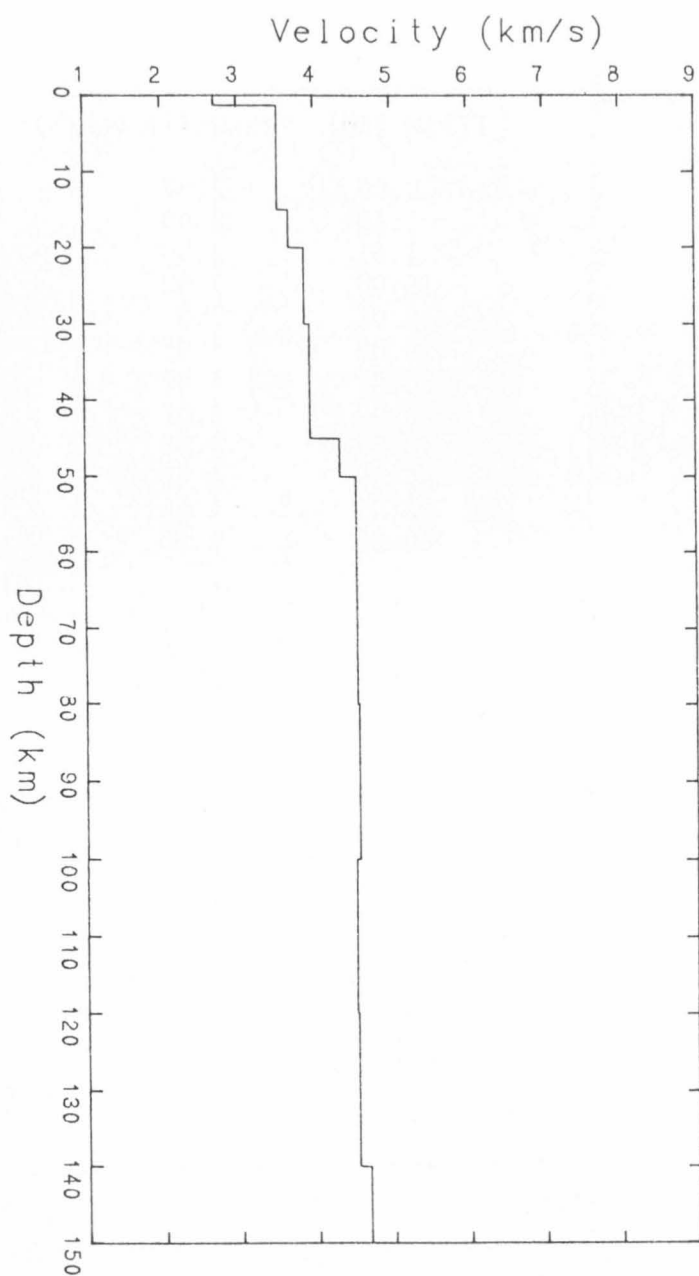


DEPTH (KM)	VELOCITY (KM/S)
0.00	3.59
38.00	3.59
38.01	4.61
60.00	4.61

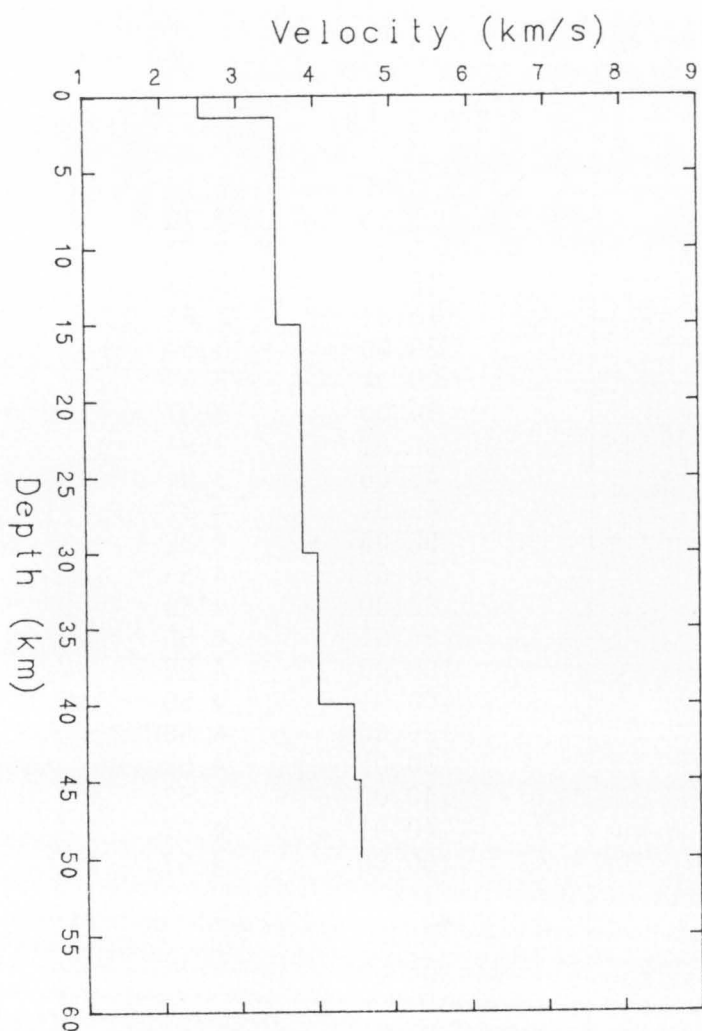
SEL01 - SD TO MUN SURFACE WAVE MODEL - S WAVES - ELLIS & DENHAM (1985)



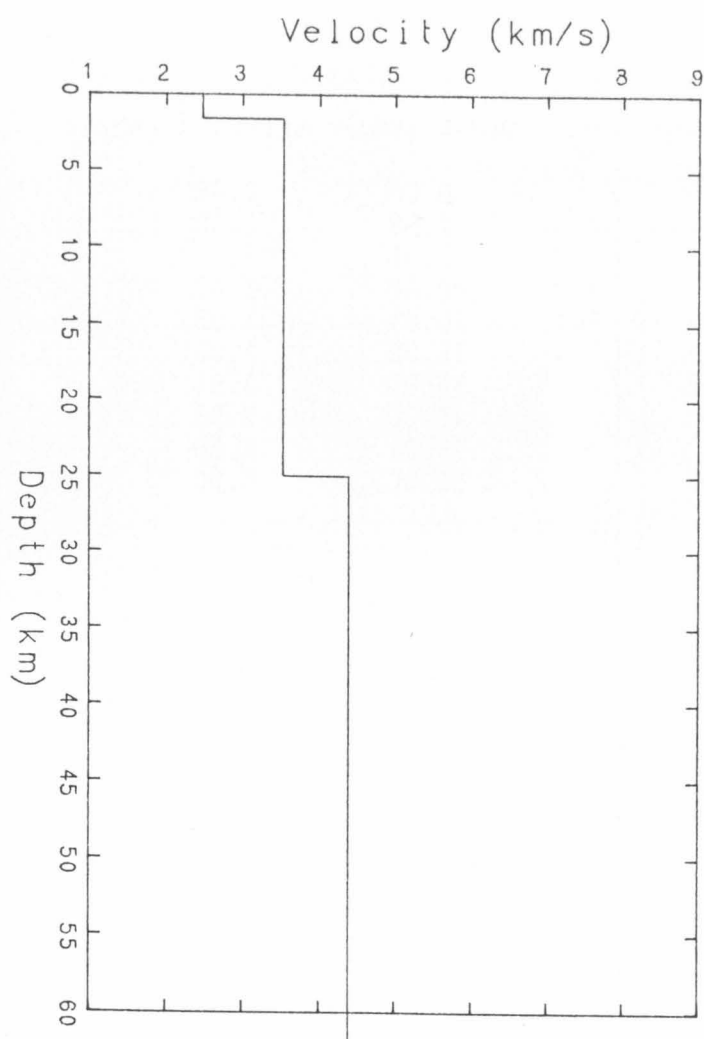
DEPTH (KM)	VELOCITY (KM/S)
0.00	2.60
1.60	2.60
1.60	3.67
20.00	3.67
20.01	3.81
30.00	3.81
30.01	3.94
40.00	3.94
40.01	4.16
50.00	4.16
50.01	4.67
80.00	4.67
80.01	4.55
100.00	4.55
100.01	4.46
120.00	4.46
120.01	4.45
140.00	4.45
140.01	4.80
150.00	4.80



DEPTH (KM)	VELOCITY (KM/S)
0.00	2.70
1.30	2.70
1.31	3.53
15.00	3.53
15.01	3.67
20.00	3.67
20.01	3.87
30.00	3.87
30.01	3.94
45.00	3.94
45.01	4.32
50.00	4.32
50.01	4.53
80.00	4.53
80.01	4.55
100.00	4.55
100.01	4.50
120.00	4.50
120.01	4.52
140.00	4.52
140.01	4.67
150.00	4.67

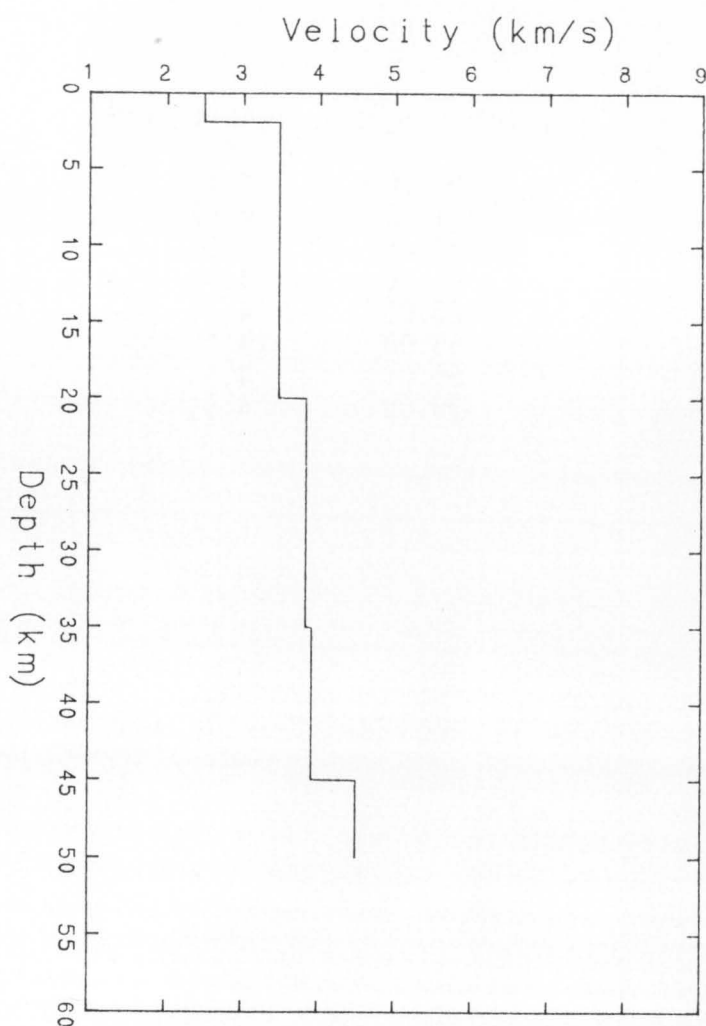


DEPTH (KM)	VELOCITY (KM/S)
0.00	2.50
1.40	2.50
1.41	3.50
15.00	3.50
15.01	3.82
30.00	3.82
30.01	4.02
40.00	4.02
40.01	4.48
45.00	4.48
45.01	4.56
50.00	4.56



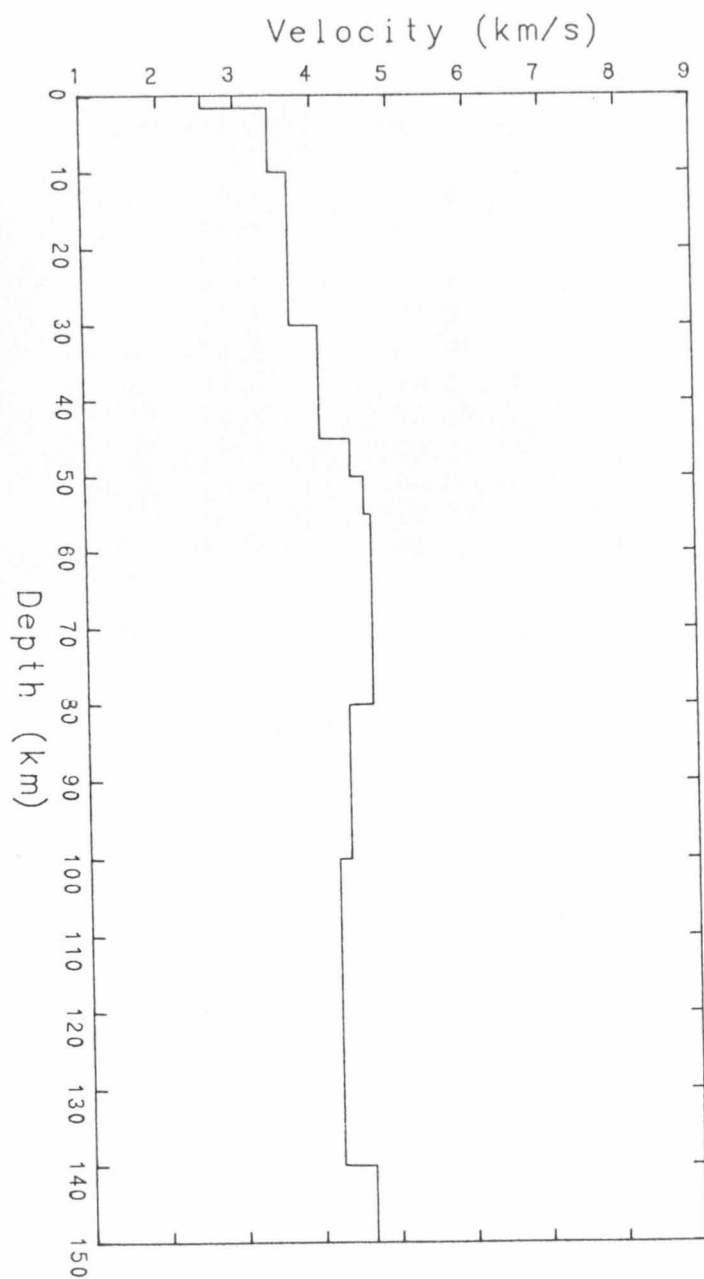
DEPTH (KM) VELOCITY (KM/S)

0.00	2.47
1.60	2.47
1.61	3.53
25.00	3.53
25.01	4.39
65.00	4.39
65.01	4.55
70.00	4.55



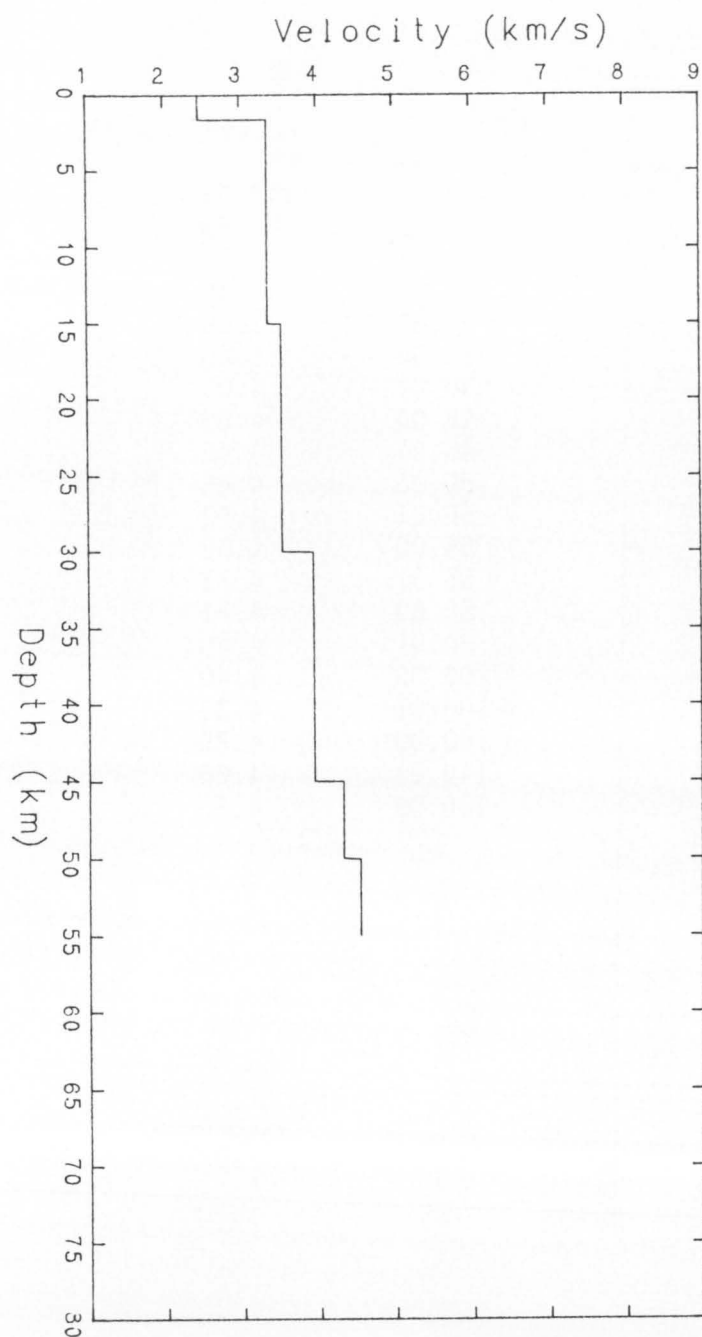
DEPTH (KM)	VELOCITY (KM/S)
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0.00	2.48
1.90	2.48
1.91	3.47
20.00	3.47
20.01	3.83
35.00	3.83
35.01	3.91
45.00	3.91
45.01	4.50
50.00	4.50

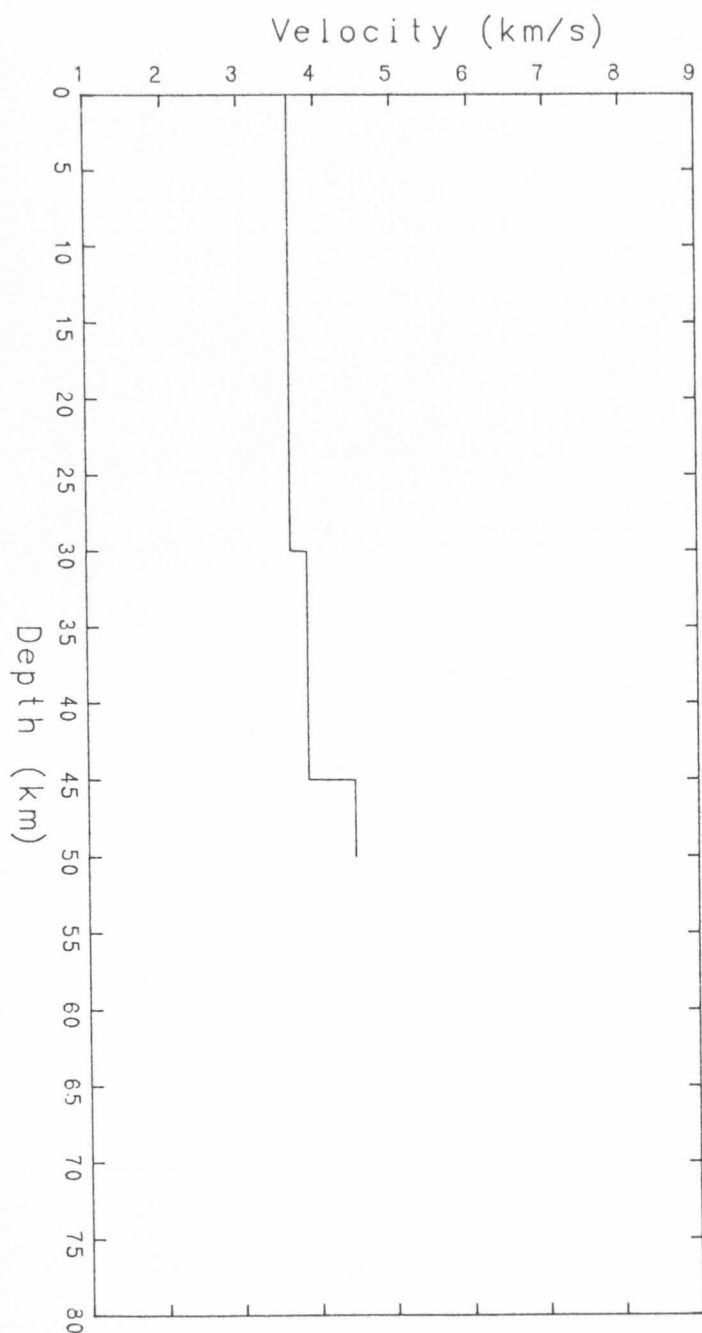


DEPTH (KM)	VELOCITY (KM/S)
0.00	2.58
1.70	2.58
1.71	3.45
10.00	3.45
10.01	3.69
30.00	3.69
30.01	4.06
45.00	4.06
45.01	4.45
50.00	4.45
50.01	4.62
55.00	4.62
55.01	4.71
80.00	4.71
80.01	4.40
100.00	4.40
100.01	4.25
140.00	4.25
140.01	4.66
150.00	4.66

SELO7 - SD TO CTA SURFACE WAVE MODEL - S WAVES - ELLIS & DENHAM (1985)

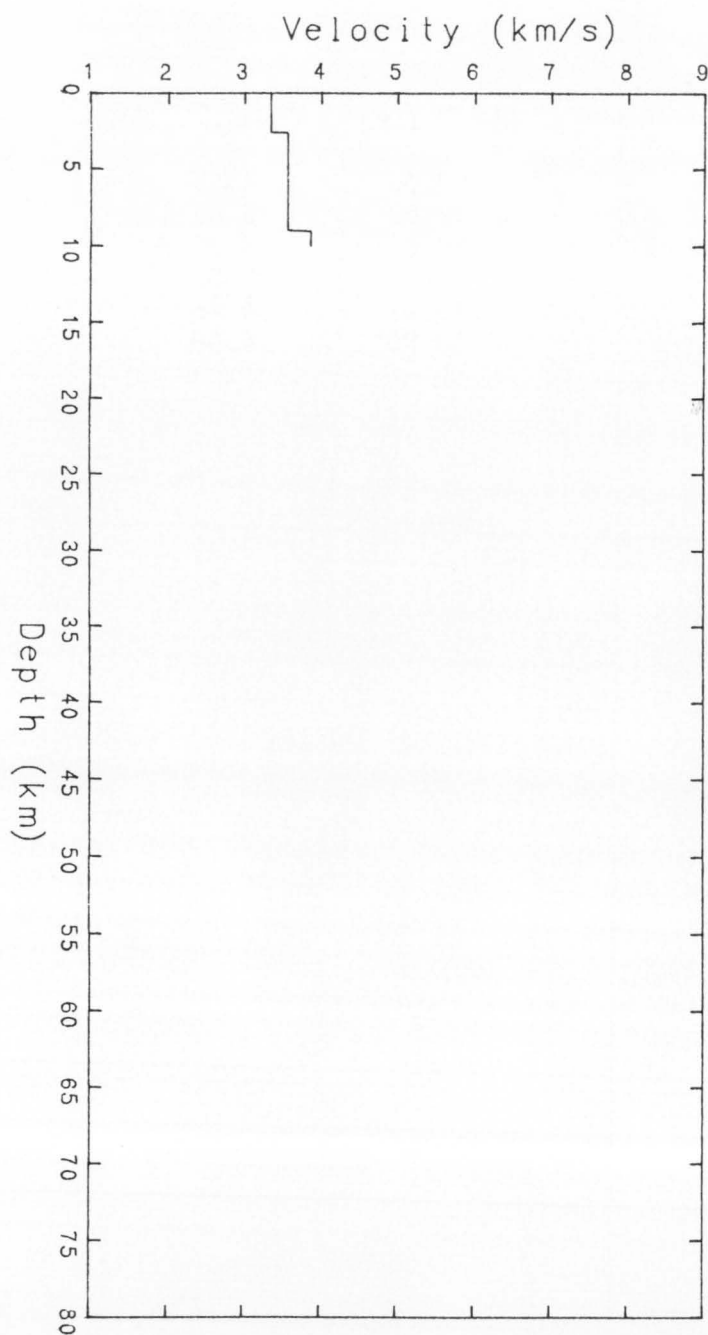


DEPTH (KM)	VELOCITY (KM/S)
0.00	2.46
1.60	2.46
1.61	3.35
15.00	3.35
15.01	3.53
30.00	3.53
30.01	3.94
45.00	3.94
45.01	4.32
50.00	4.32
50.01	4.54
55.00	4.54



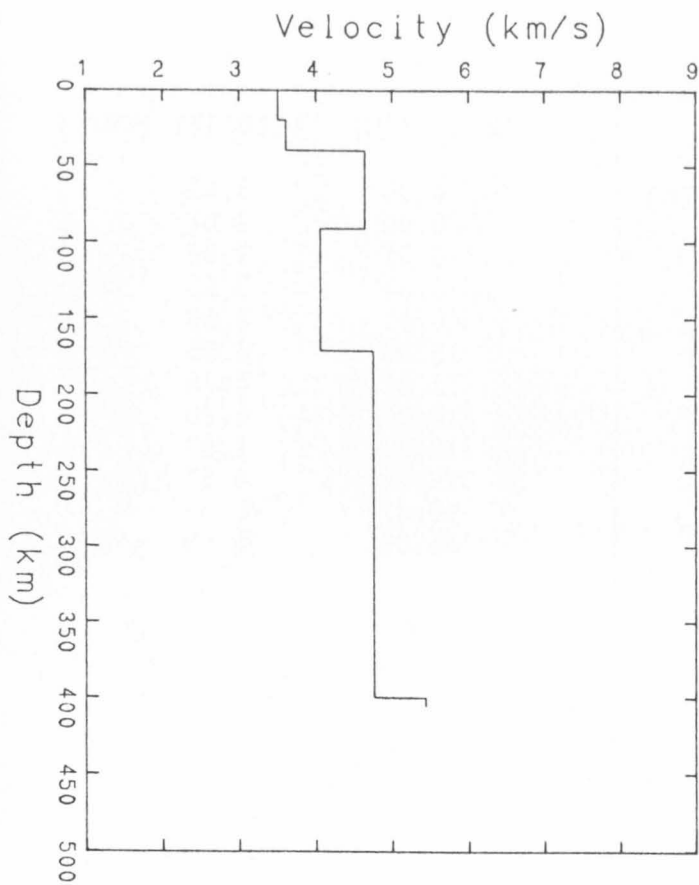
DEPTH (KM)	VELOCITY (KM/S)
0.00	3.65
30.00	3.65
30.01	3.87
45.00	3.87
45.01	4.48
50.00	4.48

SF102 - TENNANT CREEK - S WAVES - FINLAYSON (1981)

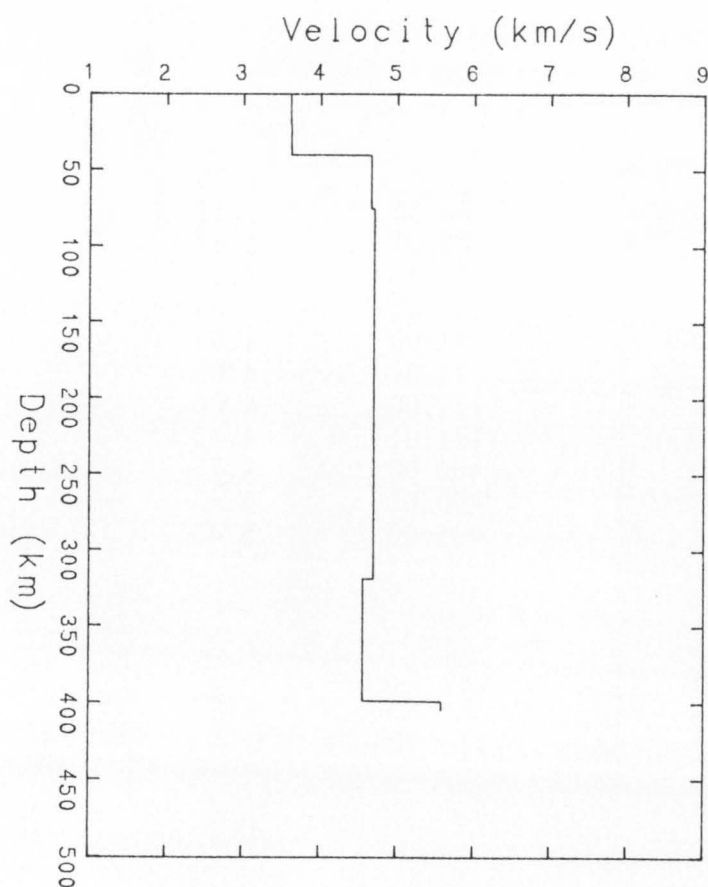


DEPTH (KM)	VELOCITY (KM/S)
0.00	3.34
2.60	3.34
2.61	3.56
9.00	3.56
9.01	3.86
10.00	3.86

SG001 - E1 SURFACE WAVE, EAST AUST. S WAVES - GONCZ & CLEARY (1976)



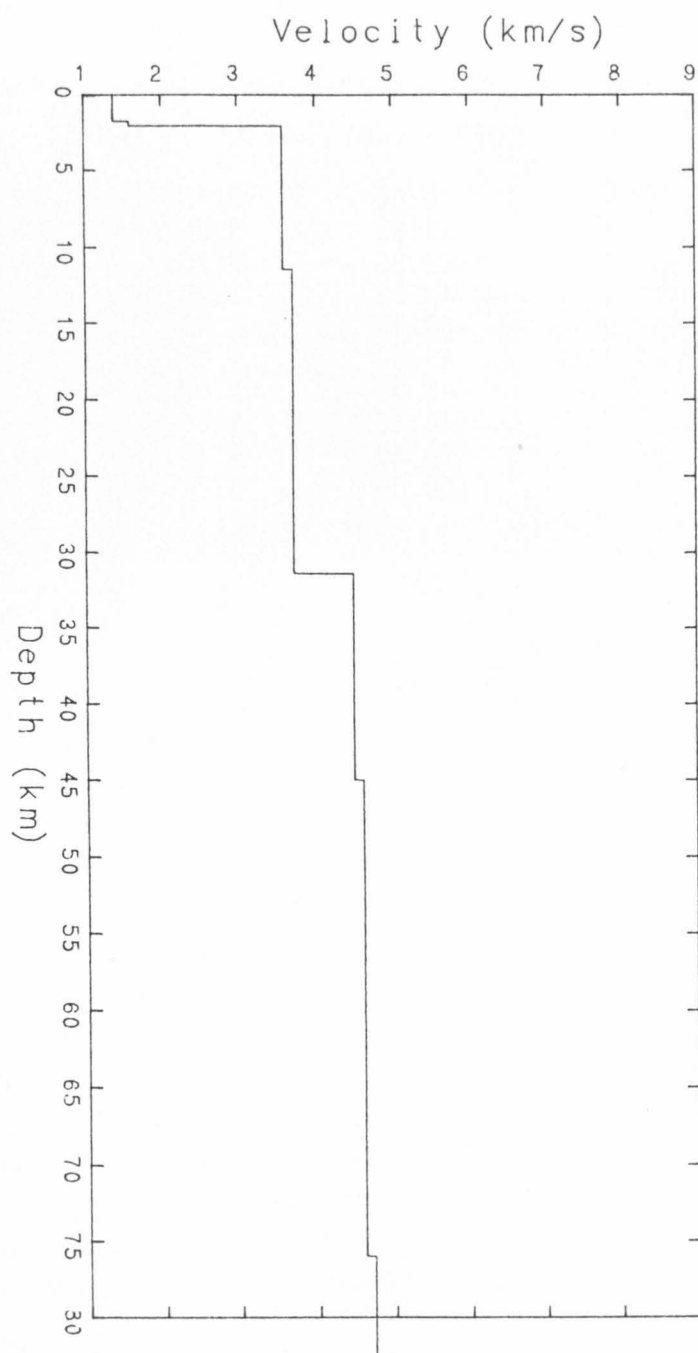
DEPTH (KM)	VELOCITY (KM/S)
0.00	3.50
20.00	3.51
20.01	3.61
40.00	3.61
40.01	4.64
91.00	4.64
91.01	4.06
171.00	4.06
171.01	4.75
400.00	4.75
400.01	5.43
405.00	5.43



DEPTH (KM) VELOCITY (KM/S)

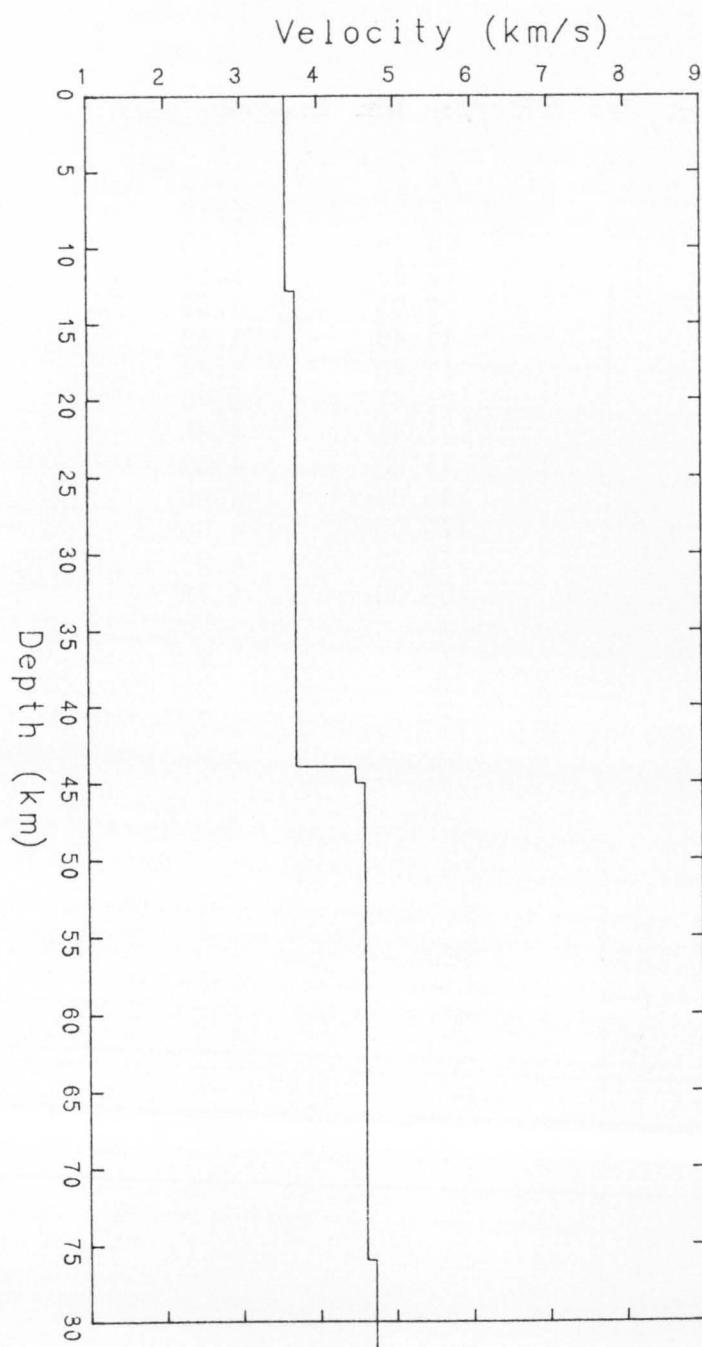
0.00	3.61
20.00	3.61
20.01	3.62
40.00	3.62
40.01	4.65
75.00	4.65
75.01	4.70
319.00	4.70
319.01	4.57
399.00	4.57
399.01	5.59
405.00	5.59

SHAO1 - DARWIN TO TENNANT CK - SHEAR WAVES - SHELF



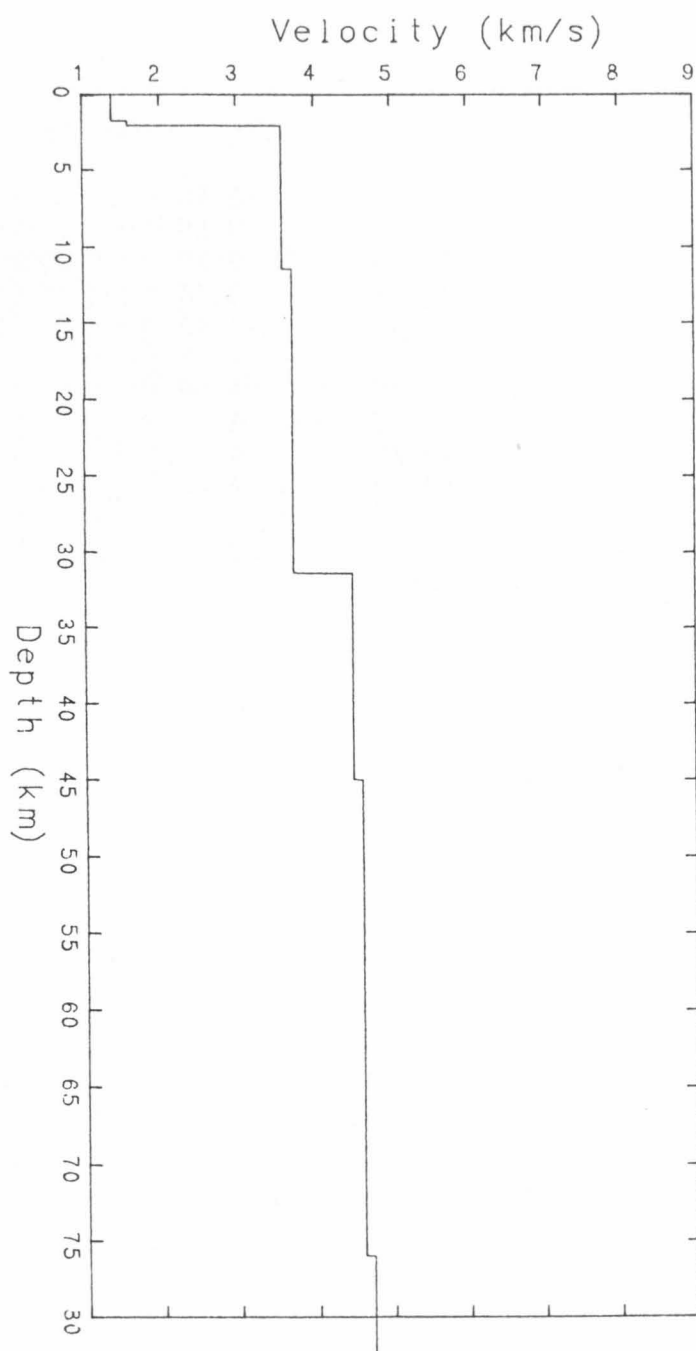
DEPTH (KM)	VELOCITY (KM/S)
0.00	1.38
1.76	1.38
1.76	1.58
2.05	1.58
2.05	3.58
11.48	3.58
11.48	3.70
31.41	3.70
31.41	4.48
45.00	4.48
45.00	4.60
76.00	4.60
76.00	4.72
100.00	4.72

SHA02 - DARWIN TO TENNANT CK - SHEAR WAVES - LAND



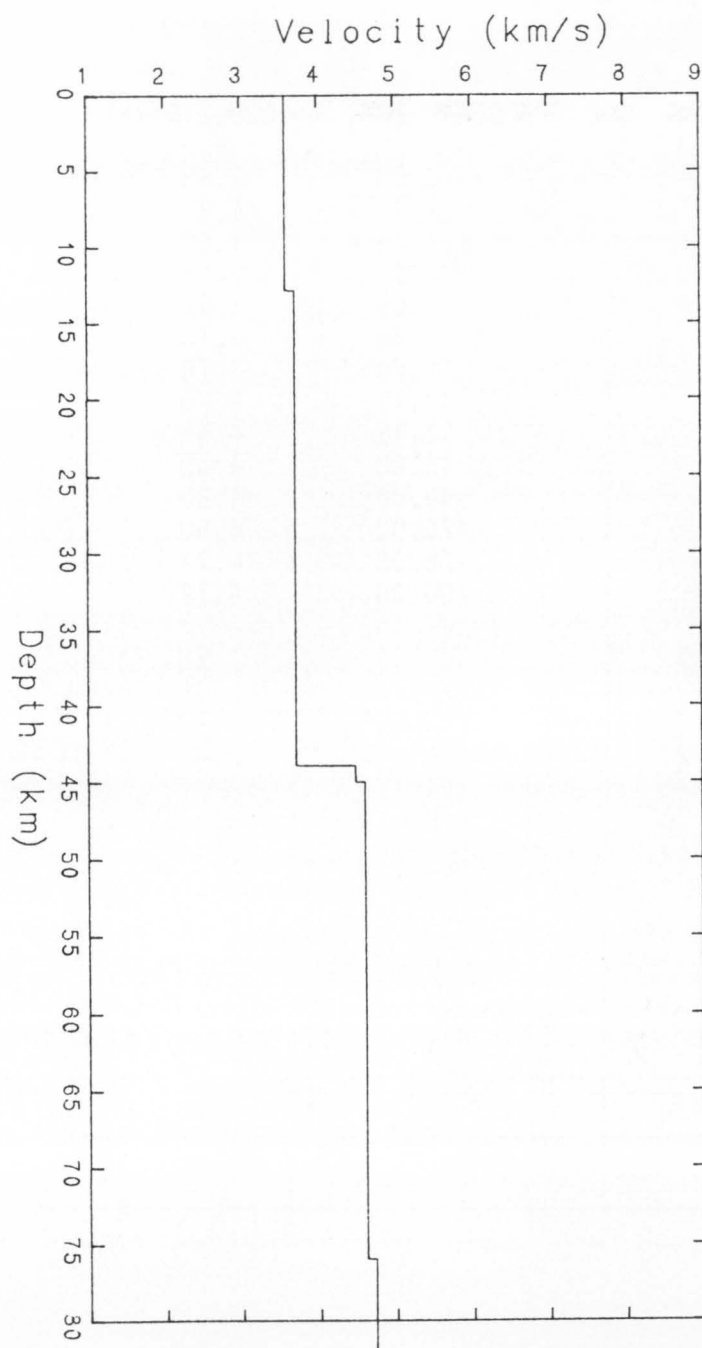
DEPTH (KM)	VELOCITY (KM/S)
0.00	3.58
12.85	3.58
12.85	3.70
43.93	3.70
43.93	4.48
45.00	4.48
45.00	4.60
76.00	4.60
76.00	4.72
100.00	4.72

SHA01 - DARWIN TO TENNANT CK - SHEAR WAVES - SHELF



DEPTH (KM)	VELOCITY (KM/S)
0.00	1.38
1.76	1.38
1.76	1.58
2.05	1.58
2.05	3.58
11.48	3.58
11.48	3.70
31.41	3.70
31.41	4.48
45.00	4.48
45.00	4.60
76.00	4.60
76.00	4.72
100.00	4.72

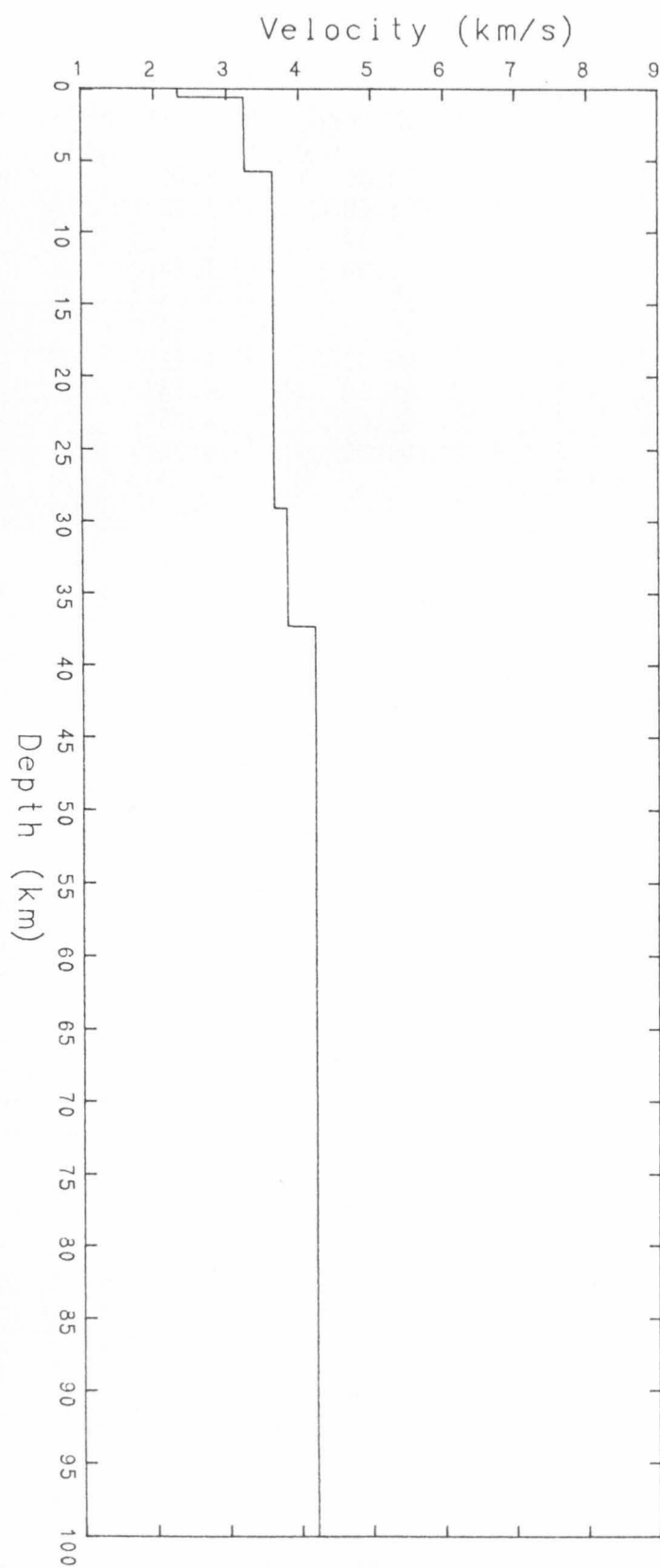
SHA02 - DARWIN TO TENNANT CK - SHEAR WAVES - LAND



DEPTH (KM) VELOCITY (KM/S)

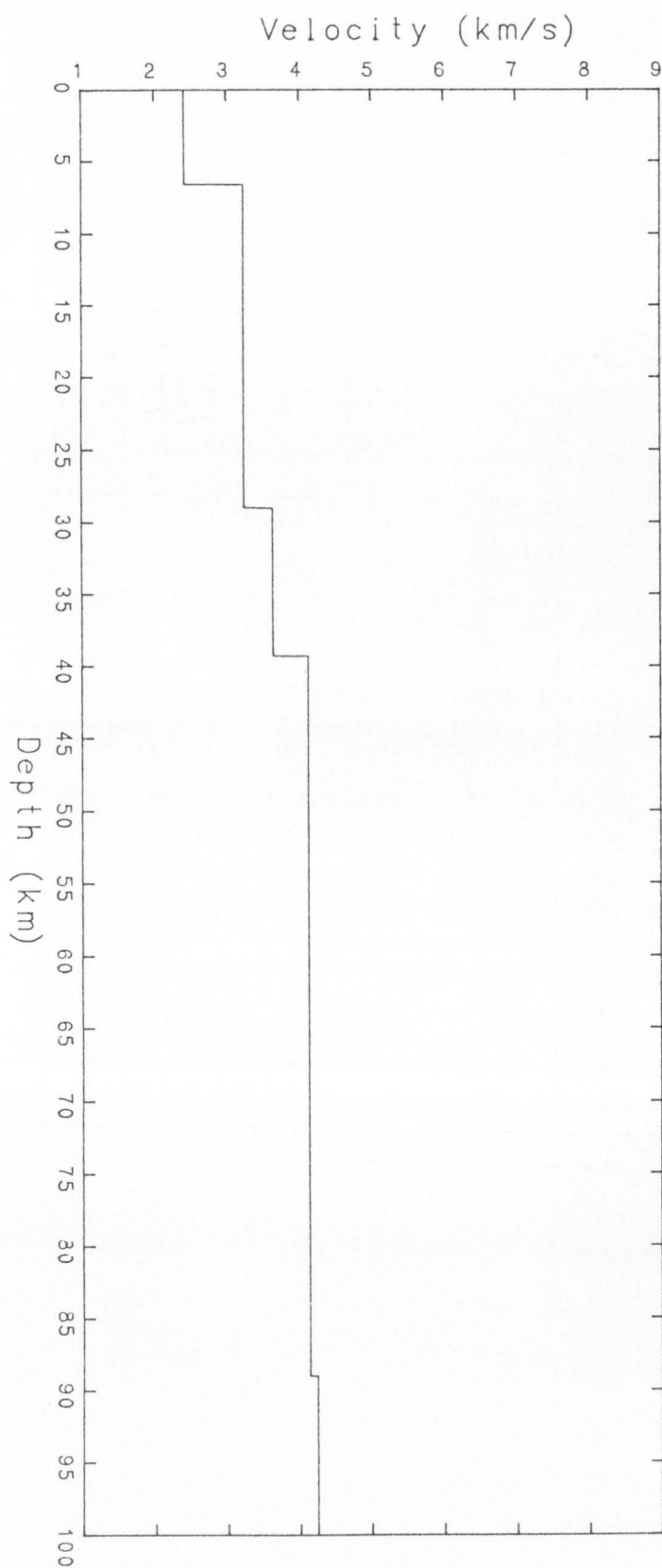
0.00	3.58
12.85	3.58
12.85	3.70
43.93	3.70
43.93	4.48
45.00	4.48
45.00	4.60
76.00	4.60
76.00	4.72
100.00	4.72

SMI02 - PICTON-CHARTERS TOWERS CTA2FS1 S WAVE



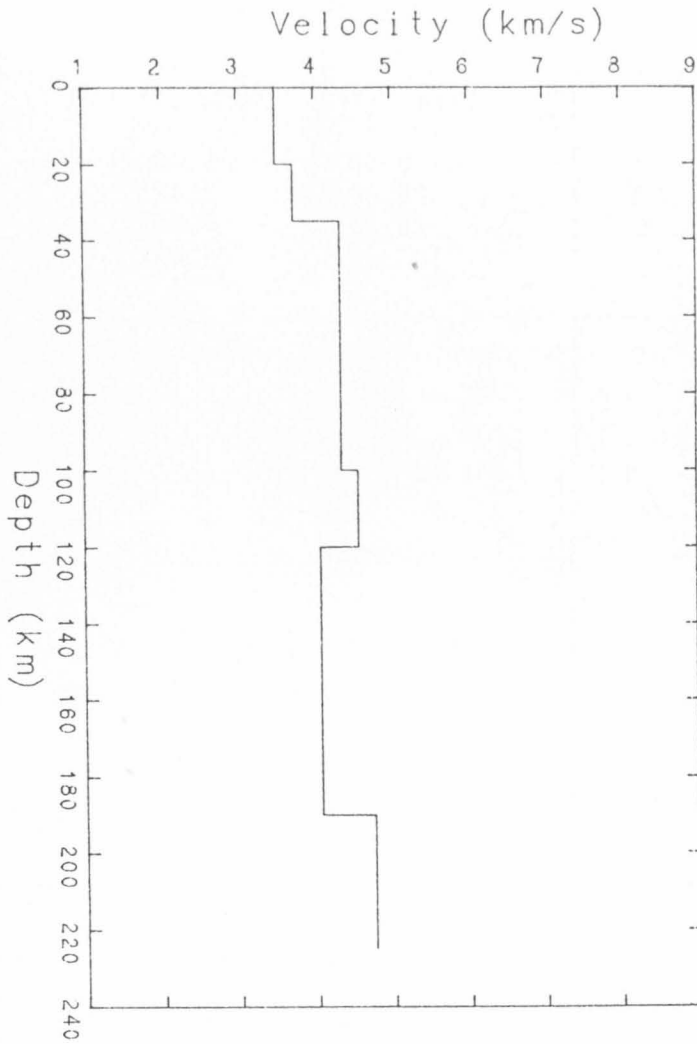
DEPTH (KM)	VELOCITY (KM/S)
0.00	2.33
.59	2.34
.60	3.24
5.76	3.25
5.77	3.64
29.10	3.65
29.11	3.82
37.30	3.83
37.31	4.21
100.00	4.22

SMI03 - PICTON-CHARTERS TOWERS CTA2S1 - S WAVES



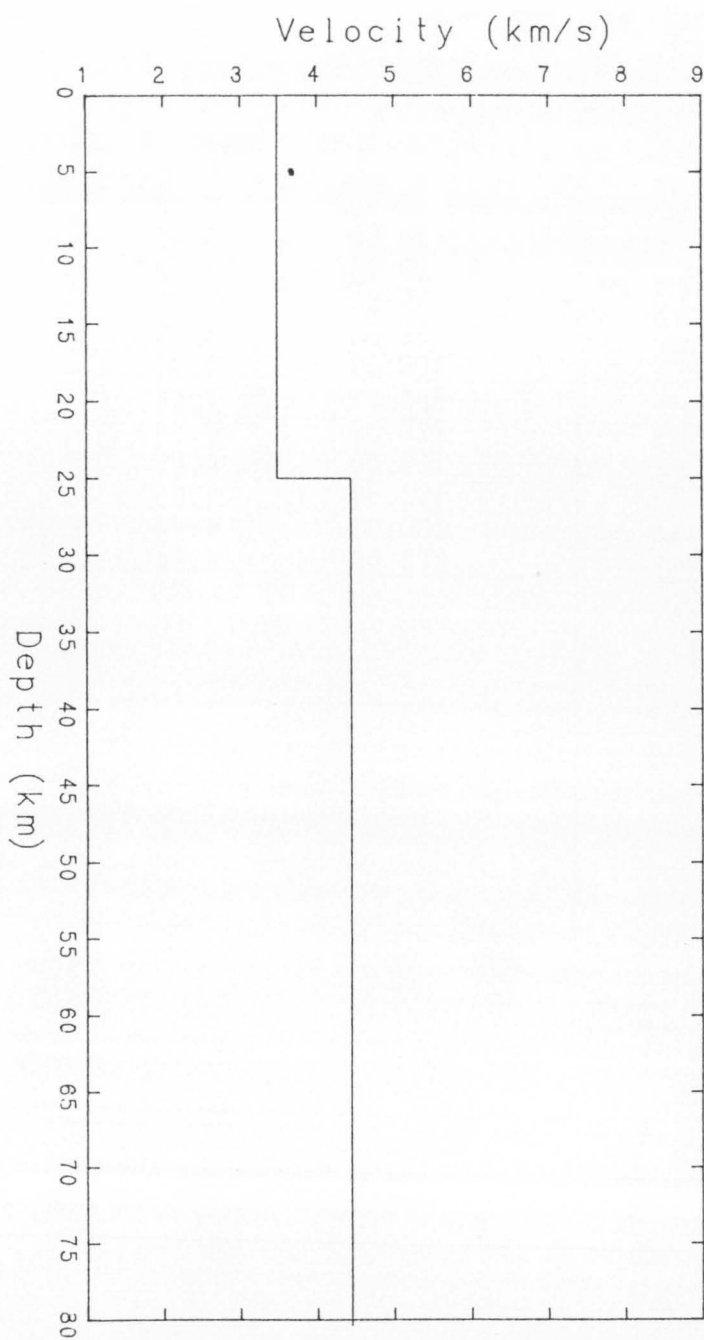
DEPTH (KM)	VELOCITY (KM/S)
0.00	2.41
6.58	2.42
6.59	3.23
29.00	3.24
29.01	3.63
39.30	3.64
39.31	4.12
89.00	4.13
89.01	4.23
100.00	4.24

SMU01 - SOUTHEAST AUSTRALIA SHEAR WAVE MODEL



DEPTH (KM)	VELOCITY (KM/S)
0.00	3.50
20.00	3.50
20.00	3.72
35.00	3.72
35.00	4.33
100.00	4.33
100.00	4.54
120.00	4.54
120.00	4.05
190.00	4.05
190.00	4.74
225.00	4.74

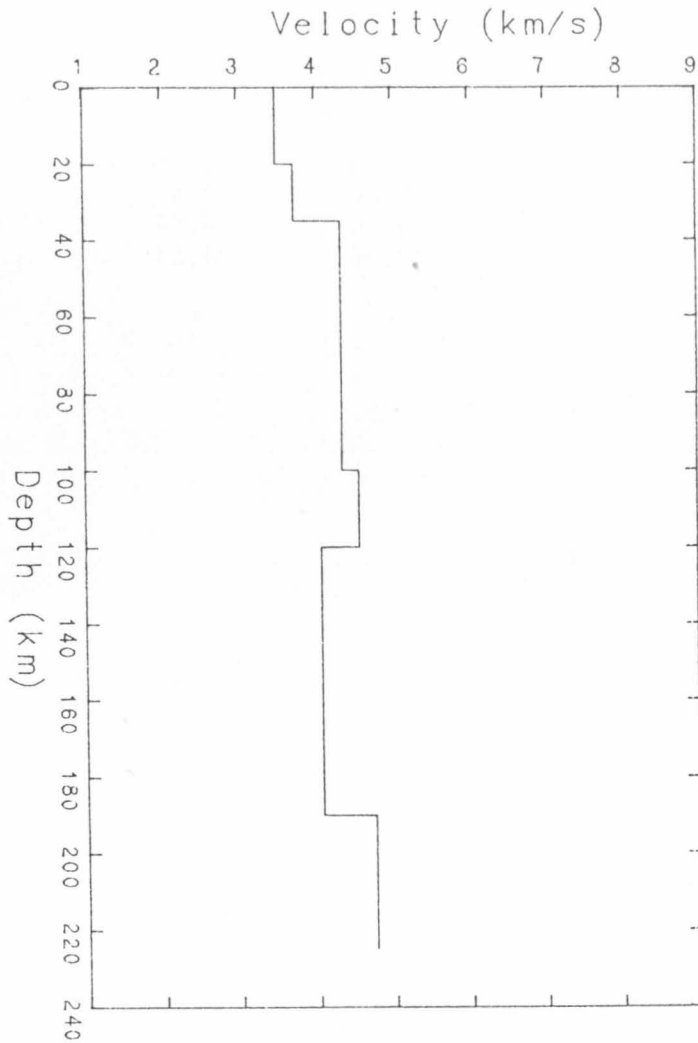
SRI01 - TASMANIA, EARTHQUAKE MODEL



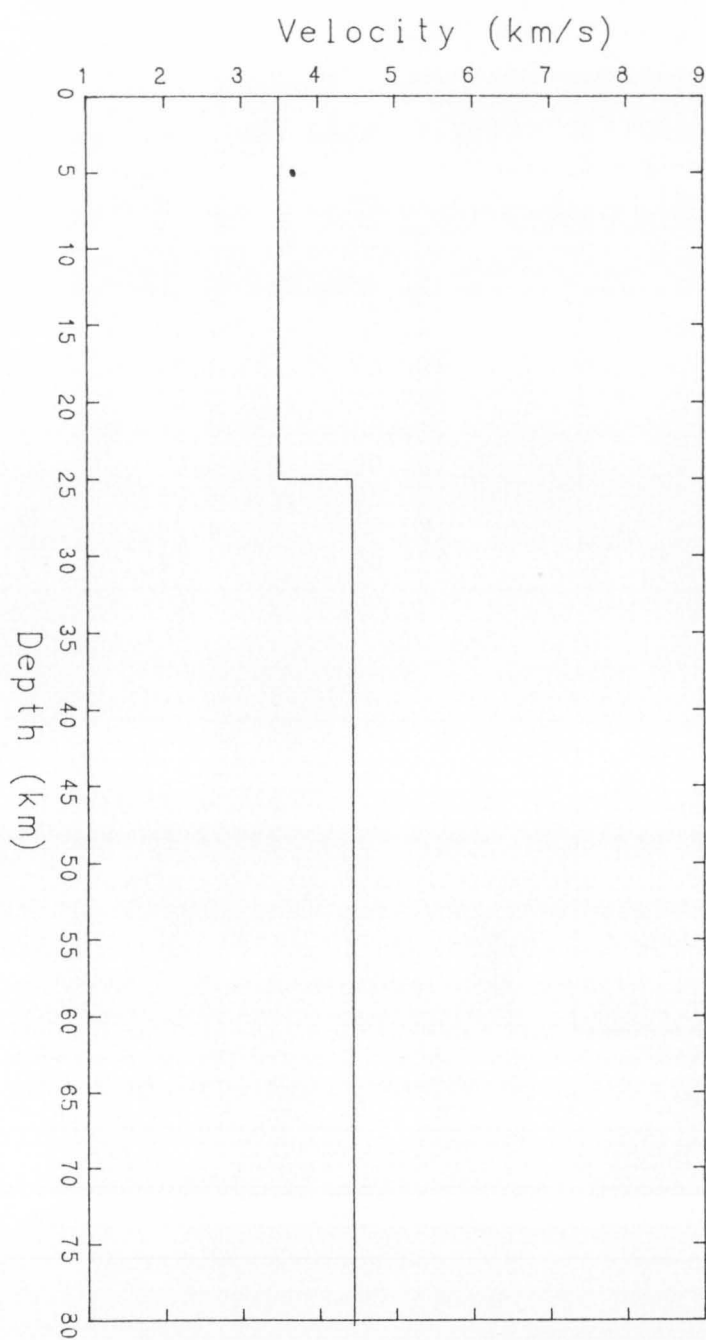
DEPTH (KM) VELOCITY (KM/S)

0.00	3.48
25.00	3.48
25.00	4.44
100.00	4.44

SMU01 - SOUTHEAST AUSTRALIA SHEAR WAVE MODEL

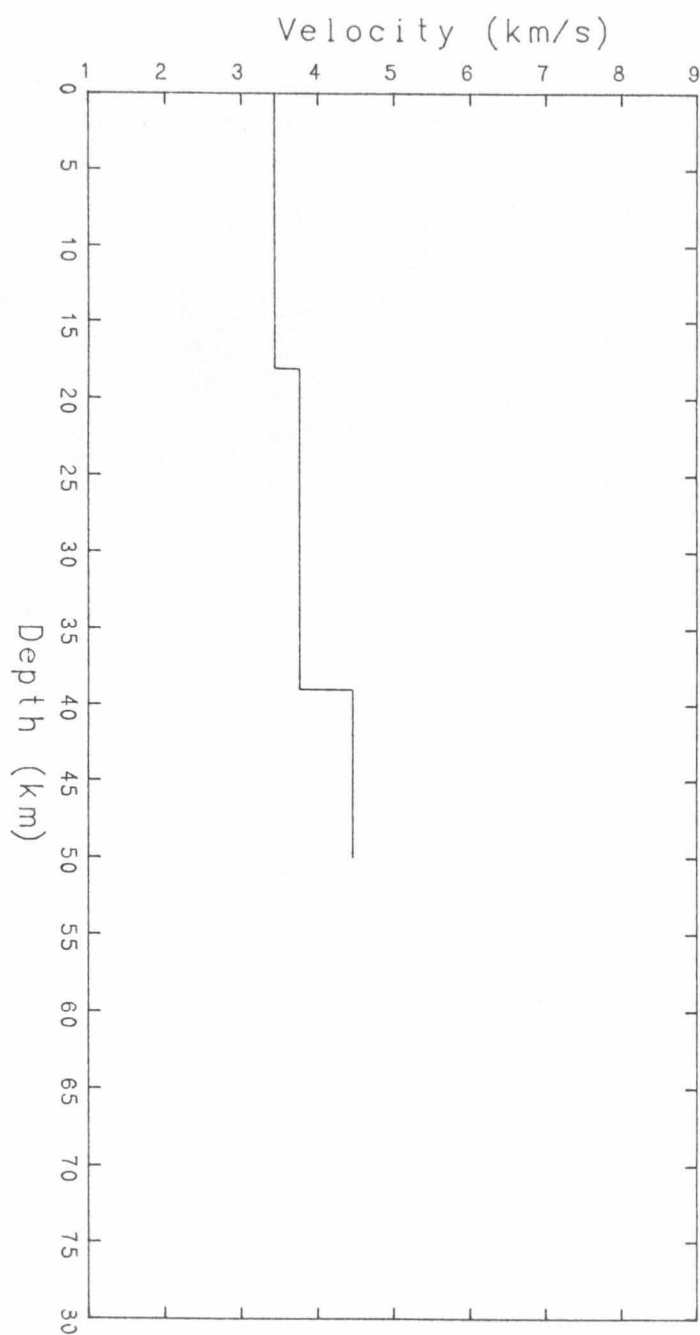


DEPTH (KM)	VELOCITY (KM/S)
0.00	3.50
20.00	3.50
20.00	3.72
35.00	3.72
35.00	4.33
100.00	4.33
100.00	4.54
120.00	4.54
120.00	4.05
190.00	4.05
190.00	4.74
225.00	4.74



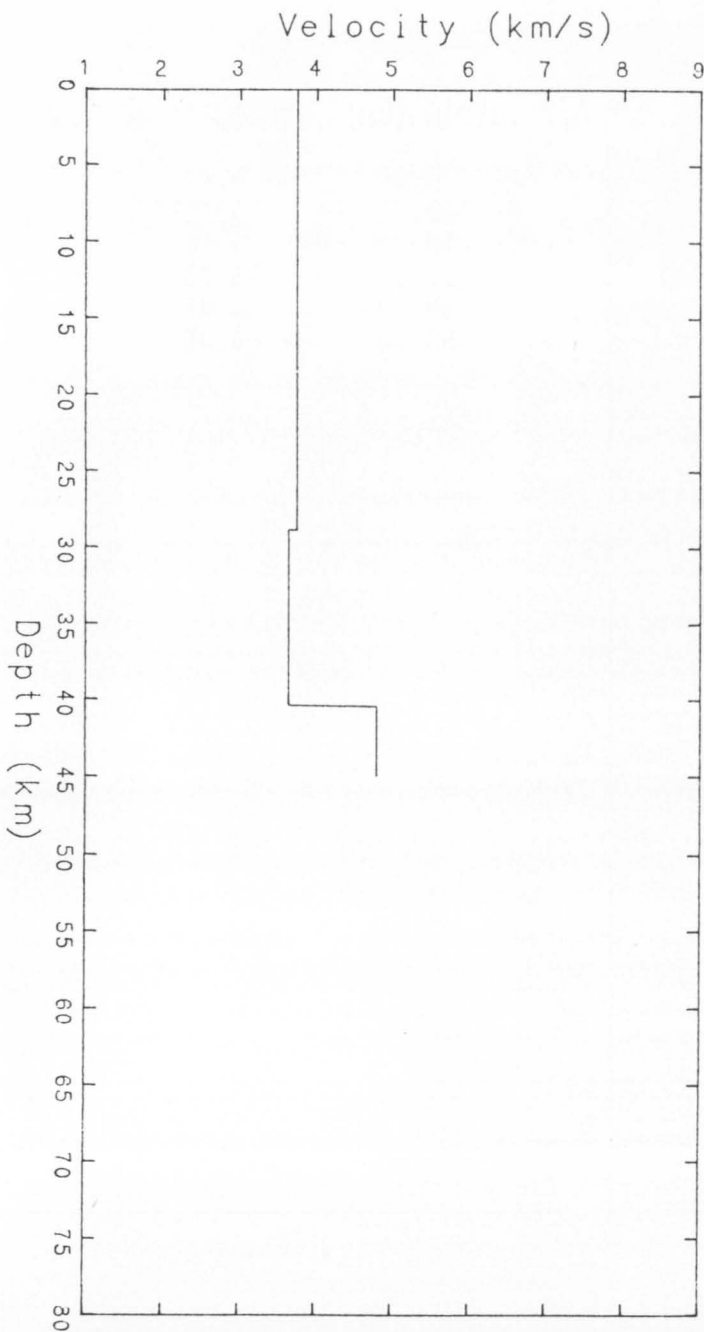
DEPTH (KM)	VELOCITY (KM/S)
0.00	3.48
25.00	3.48
25.00	4.44
100.00	4.44

SSH01 - SOUTH AUSTRALIA - S WAVE

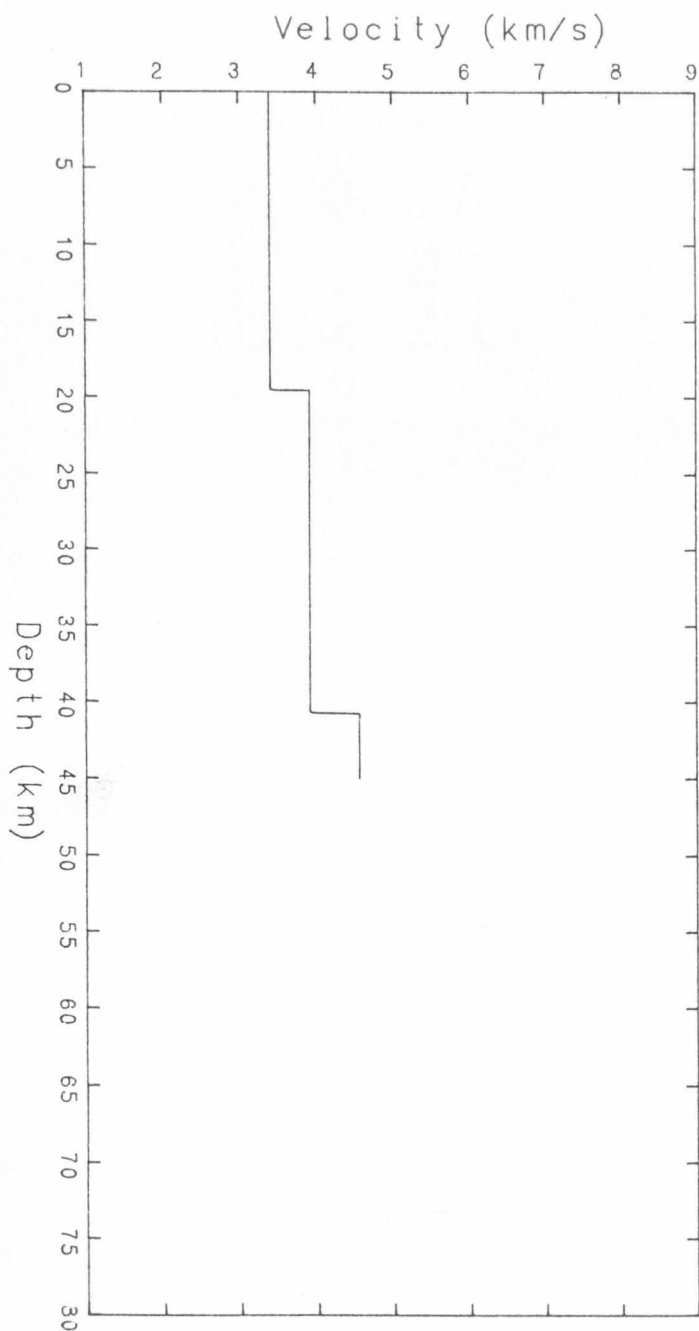


DEPTH (KM)	VELOCITY (KM/S)
0.00	3.43
18.00	3.43
18.00	3.76
39.00	3.76
39.00	4.45
50.00	4.45

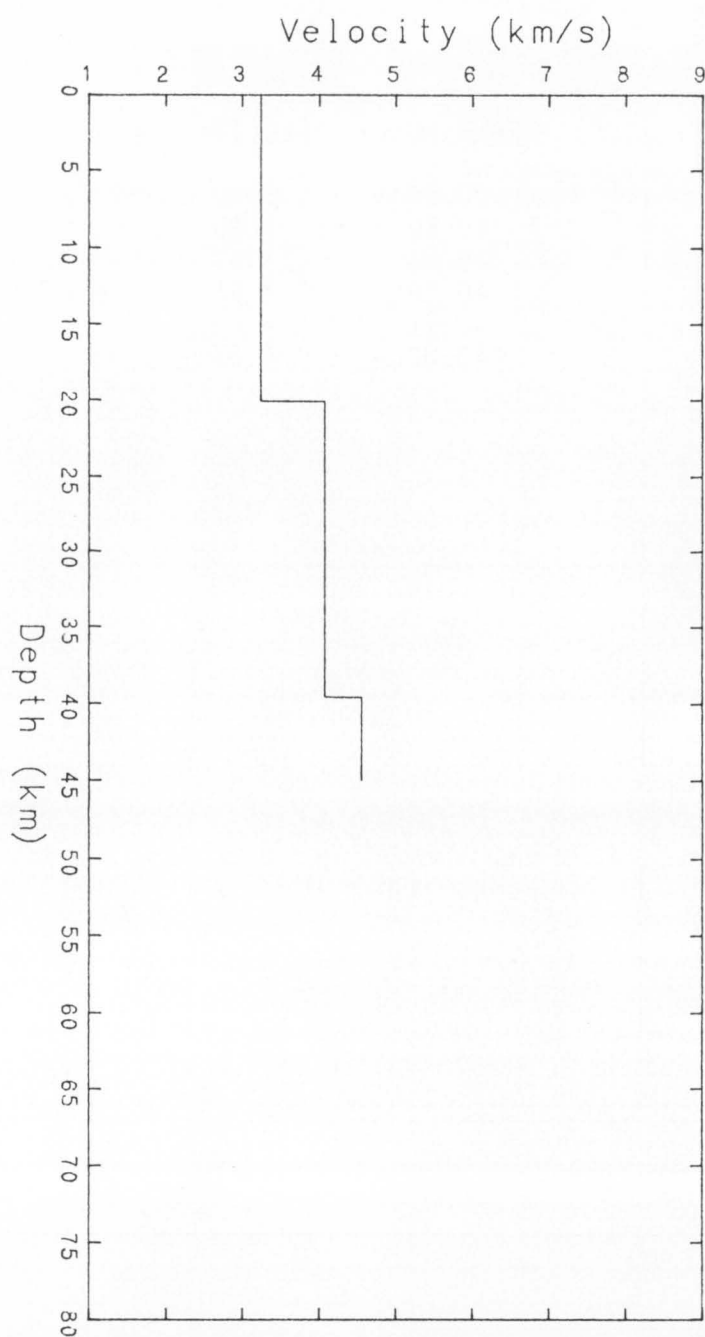
STH01 - ADE-CTA 2 LAYER S WAVE MODEL - THOMAS (1969)



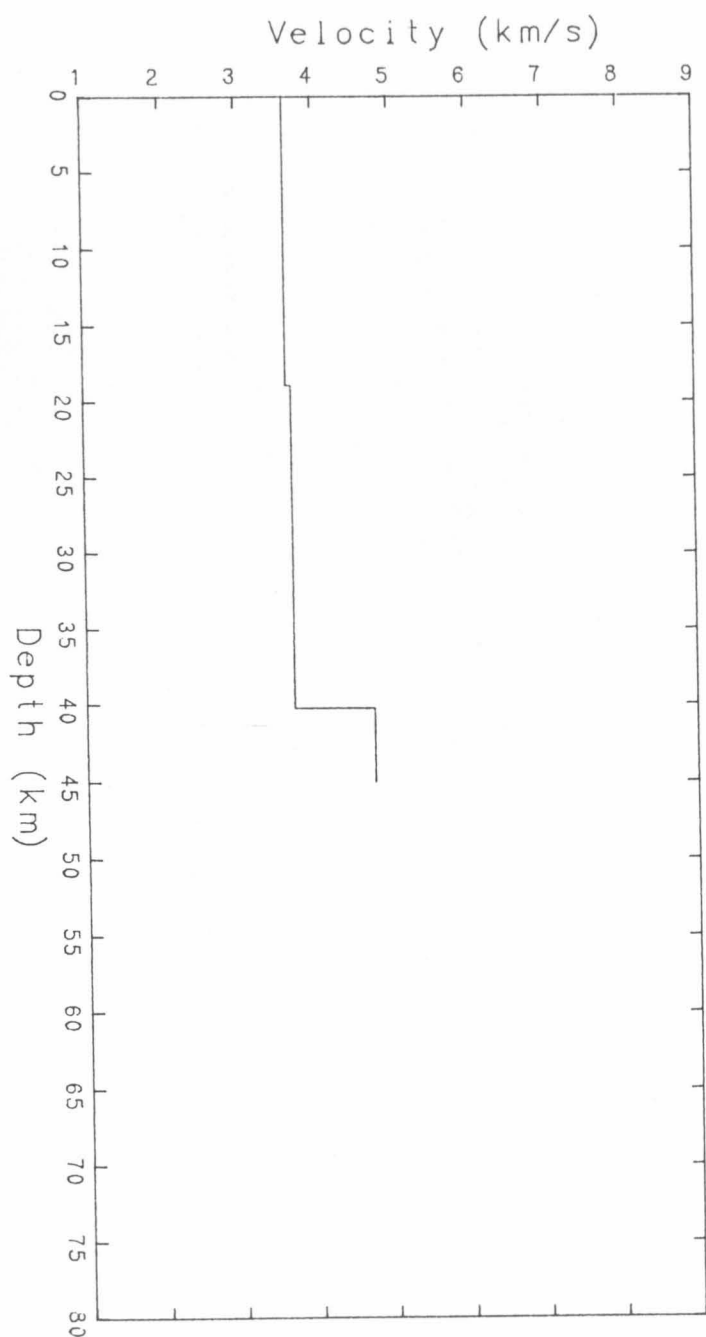
DEPTH (KM)	VELOCITY (KM/S)
0.00	3.74
28.90	3.74
28.91	3.63
40.40	3.63
40.41	4.79
45.00	4.79



DEPTH (KM)	VELOCITY (KM/S)
0.00	3.40
19.50	3.40
19.51	3.91
40.70	3.91
40.71	4.55
45.00	4.55

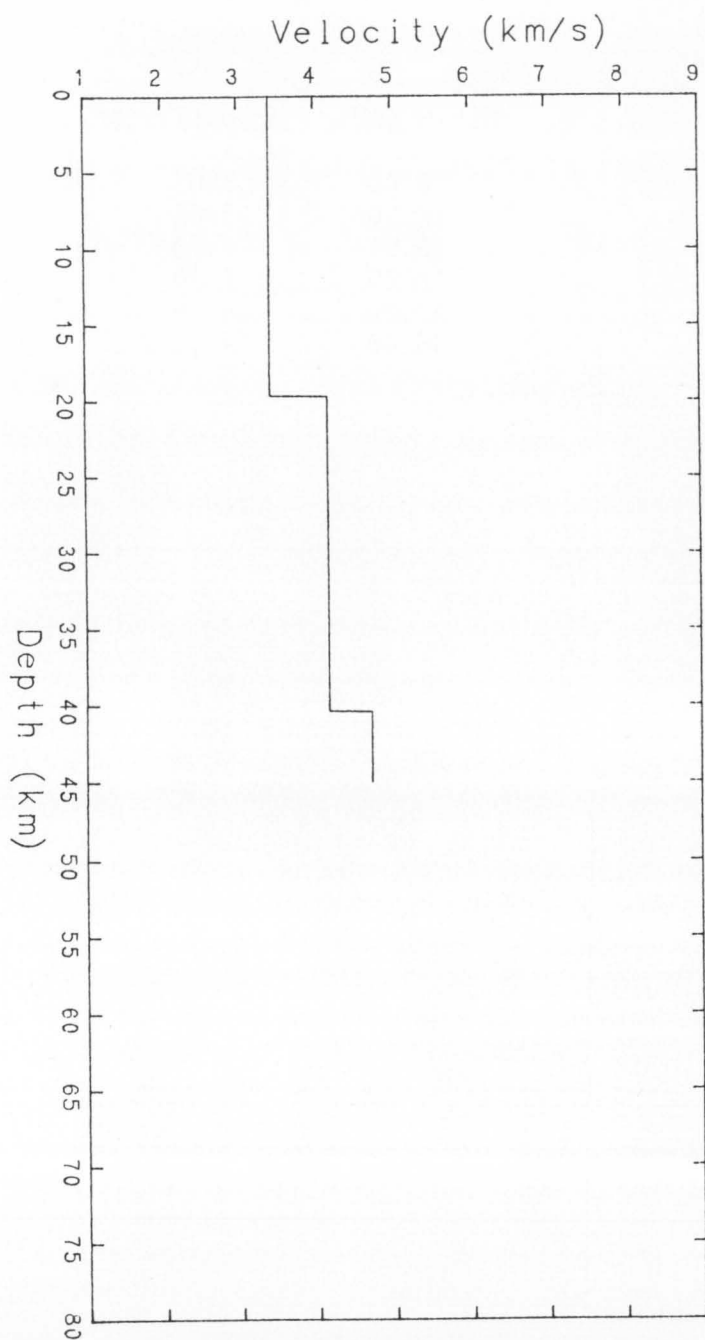


DEPTH (KM)	VELOCITY (KM/S)
0.00	3.24
20.10	3.24
20.11	4.07
39.60	4.07
39.61	4.55
45.00	4.55



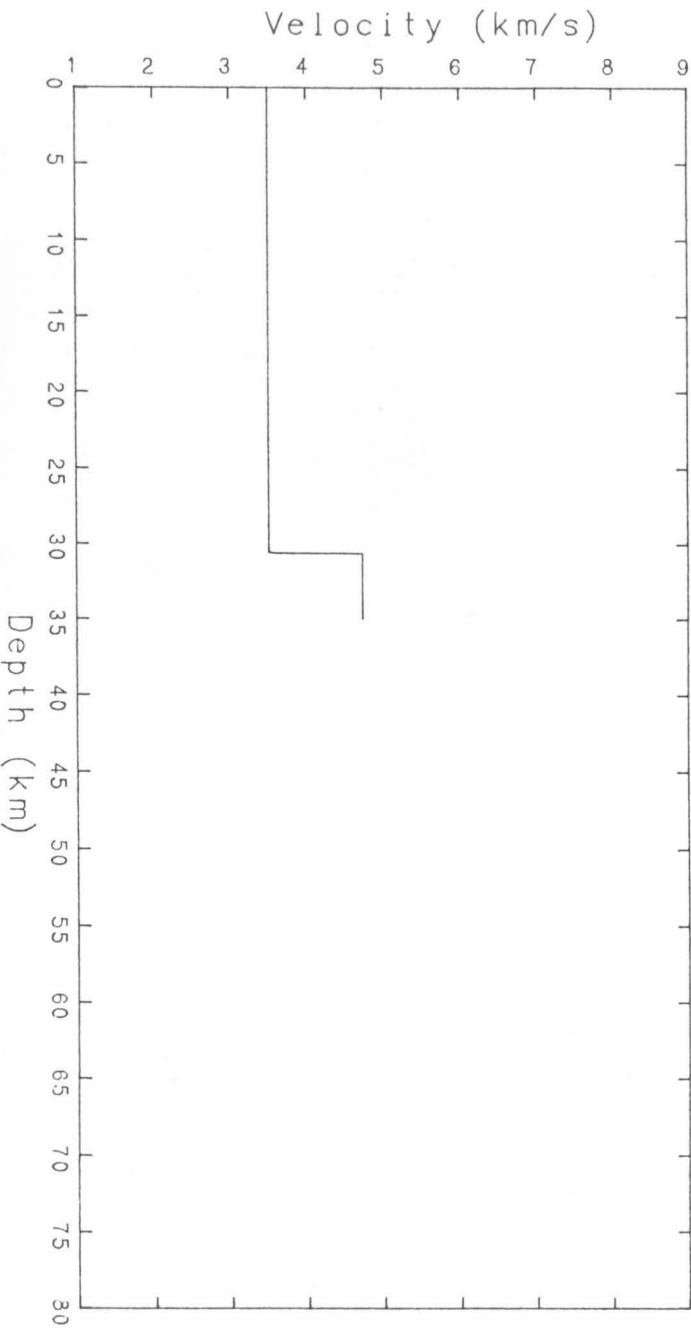
DEPTH (KM)	VELOCITY (KM/S)
0.00	3.63
18.90	3.63
18.91	3.70
40.20	3.70
40.20	4.75
45.00	4.75

STH05 - RIV-TAU 2 LAYER S WAVE MODEL - THOMAS (1969)



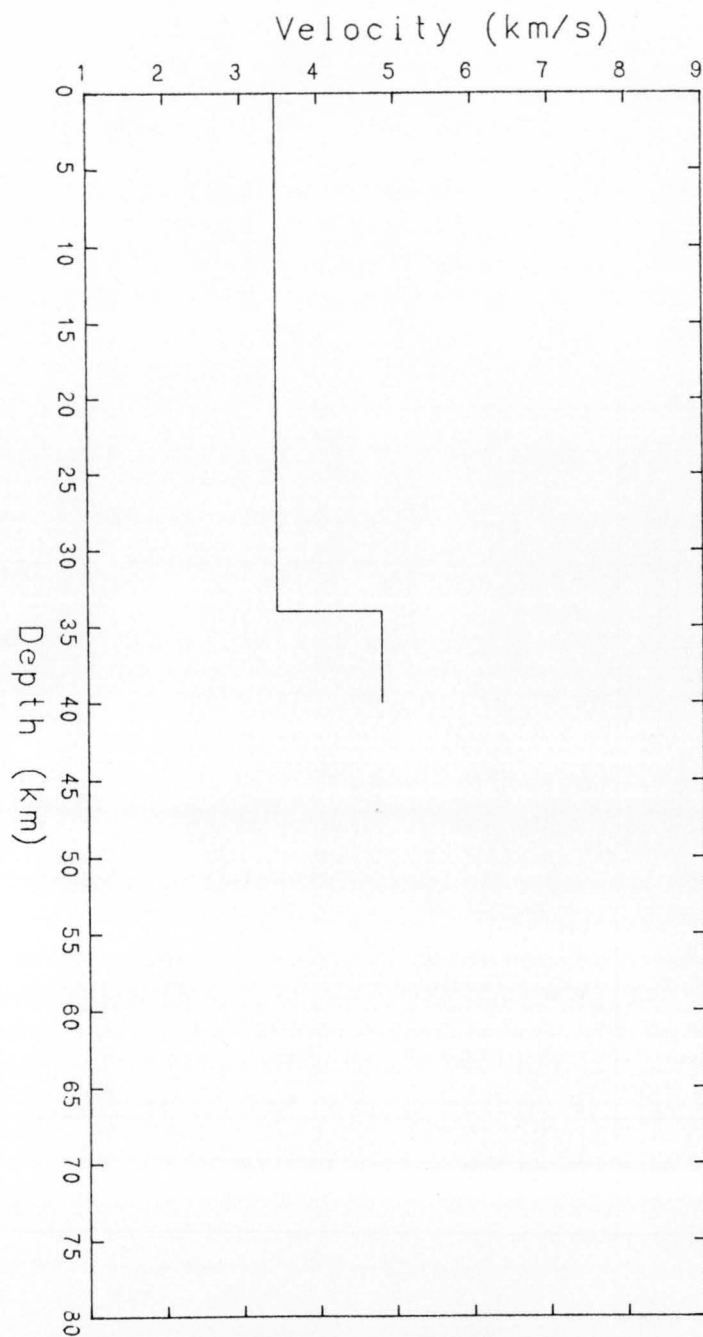
DEPTH (KM) VELOCITY (KM/S)

0.00	3.41
19.70	3.41
19.71	4.16
40.40	4.16
40.41	4.71
45.00	4.71



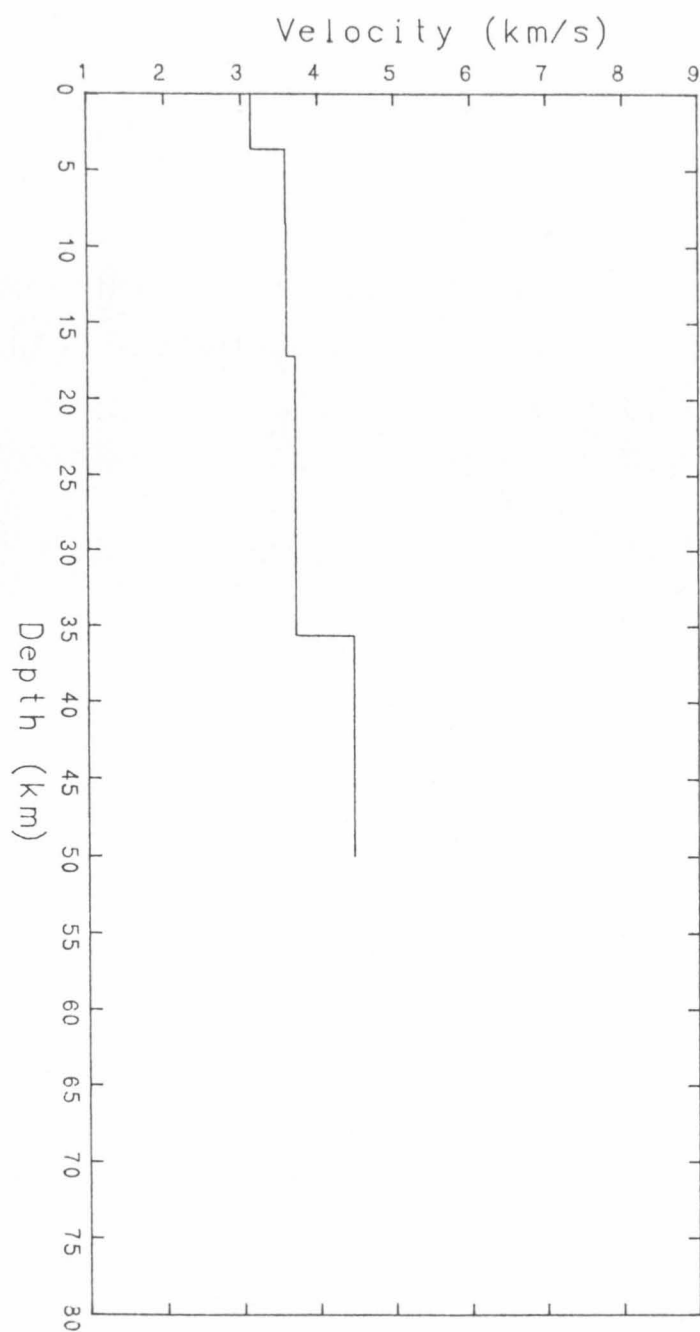
DEPTH (KM)	VELOCITY (KM/S)
0.00	3.50
30.60	3.50
30.61	4.72
35.00	4.72

STH07 - CTA-RIV 1 LAYER S WAVE MODEL - THOMAS (1969)



DEPTH (KM)	VELOCITY (KM/S)
0.00	3.45
34.00	3.45
34.01	4.82
40.00	4.82

SWE01 - VIC5A, VICTORIA, WESSON & GIBSON - S WAVES



DEPTH (KM)	VELOCITY (KM/S)
0.00	3.13
3.63	3.13
3.63	3.57
8.46	3.57
8.46	3.59
17.17	3.59
17.17	3.70
35.61	3.70
35.61	4.46
50.00	4.46



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