UNIVERSITY OF ADELAIDE LIBRARY
12.10

STRUCTURAL DEVELOPMENT AND CONTROL ON STRATIGRAPHY AND SEDIMENTATION IN THE COOPER BASIN, NORTHEASTERN SOUTH AUSTRALIA AND SOUTHWESTERN QUEENSLAND

By

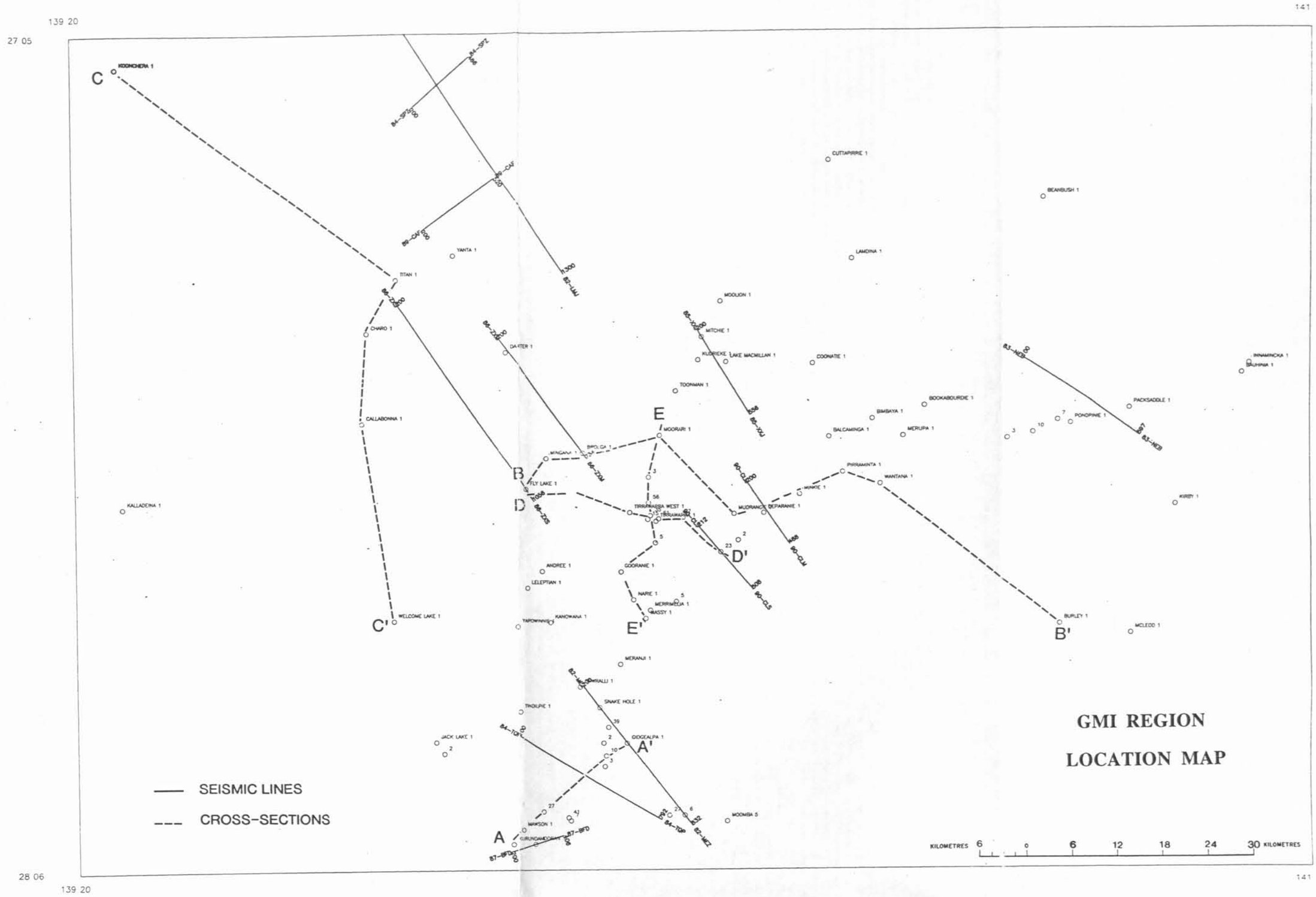
SUKRU N. APAK
(MSc in Geology [Turkey],
MSc in Petroleum Geology [USA])

FEBRUARY, 1994

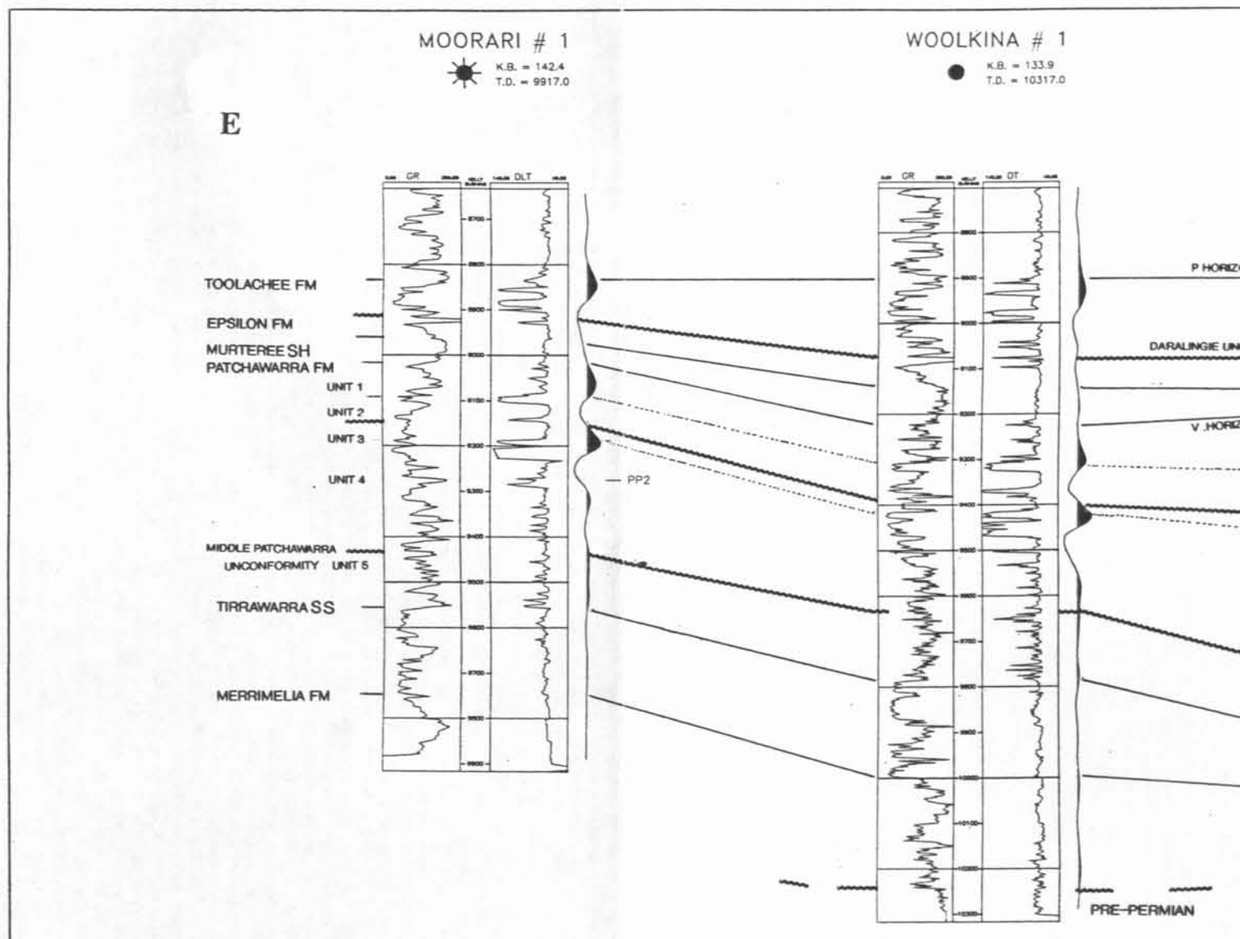
This thesis is submitted in fulfilment of the requirements of the Doctor of Philosophy Degree in the National Centre for Petroleum Geology and Geophysics at the University of Adelaide

090 PH
A639
MAPS
c.2

UNIVERSITY OF ADELAIDE LIBRARY

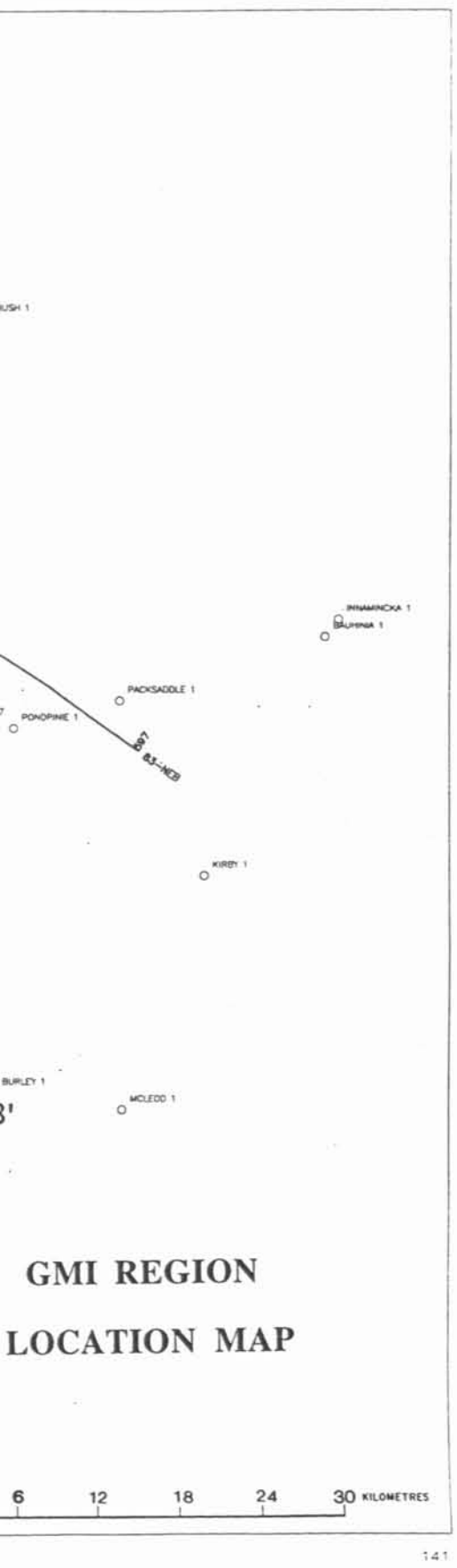


GMI REGION
LOCATION MAP



141

27 05



GMI REGION

LOCATION MAP

28 06

141

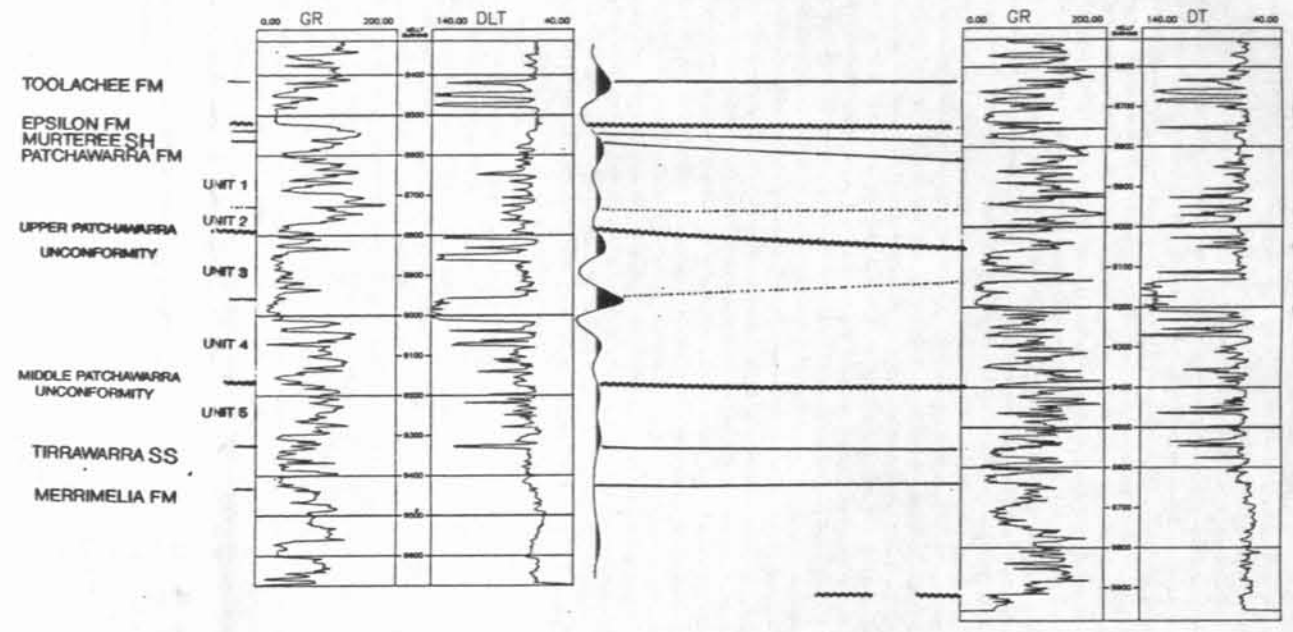
B

FLY LAKE # 1

K.B. = 115.3
T.D. = 9675.0

MINGANA # 1

K.B. = 117.5
T.D. = 9983.0



WOOLKINA # 1

K.B. = 133.9
T.D. = 10317.0

TIRRAWARRA # 3

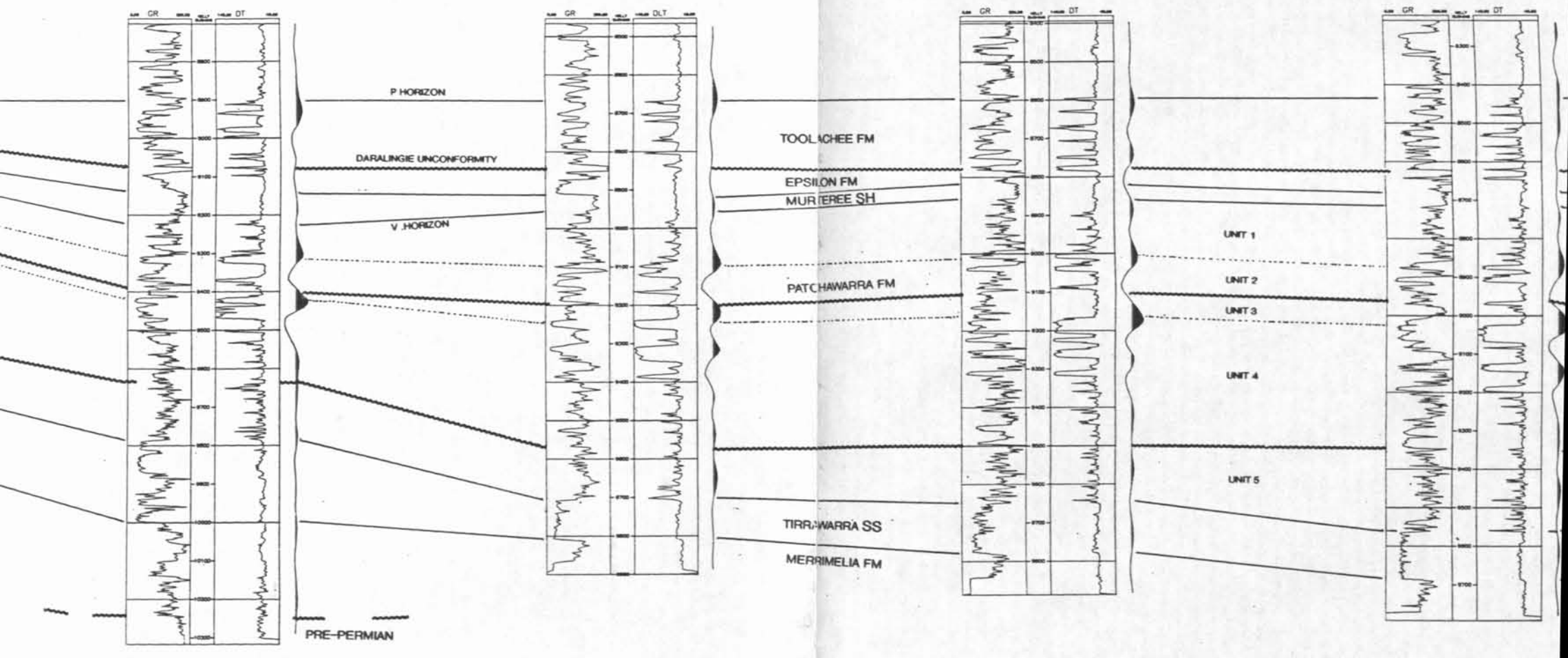
K.B. = 129.7
T.D. = 9900.0

TIRRAWARRA # 56

K.B. = 130.1
T.D. = 9887.0

TIRRAWARRA # 15

K.B. = 132.4
T.D. = 9793.0

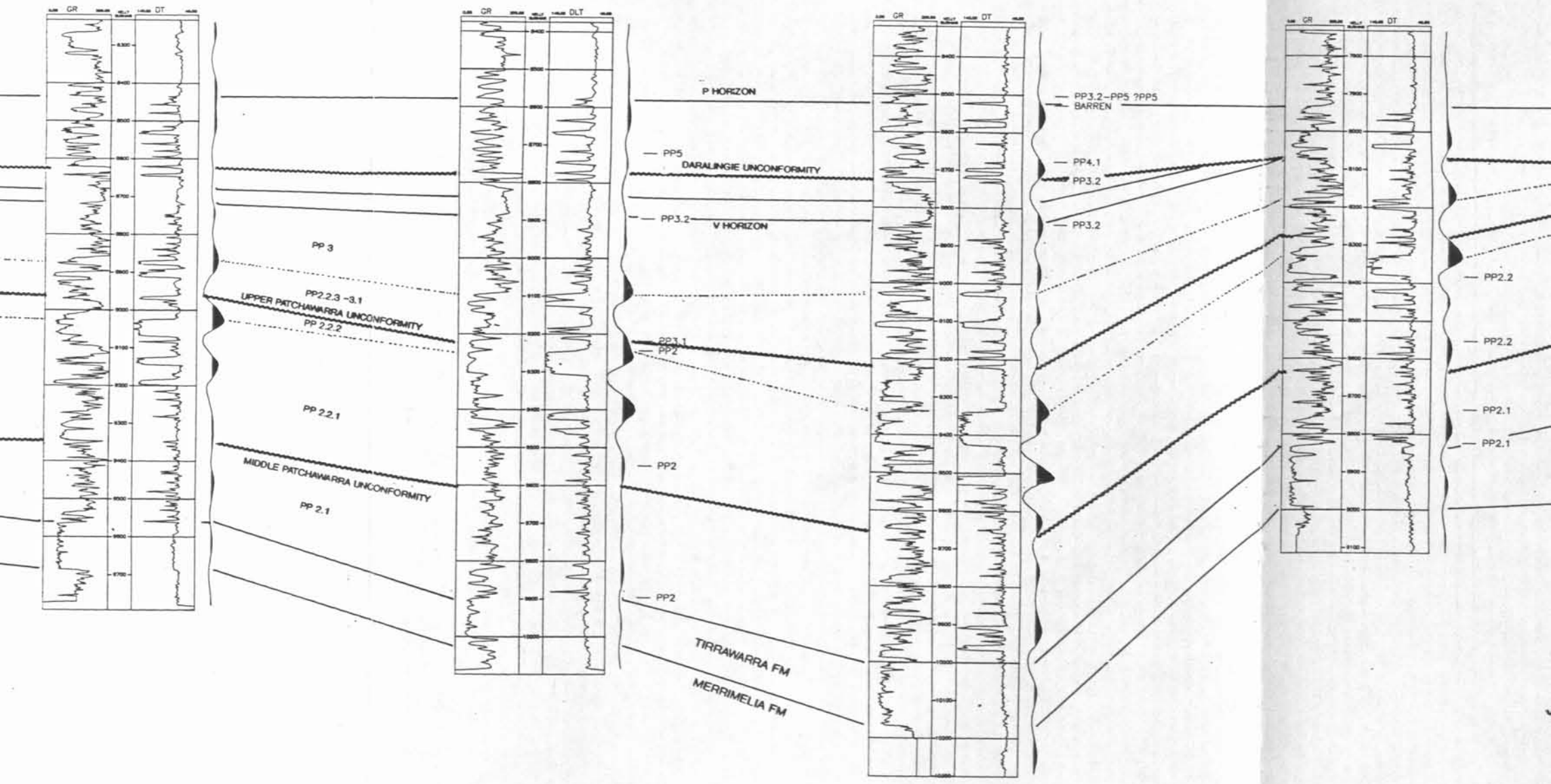


STRAT

H.S : Diagramatic

(MC

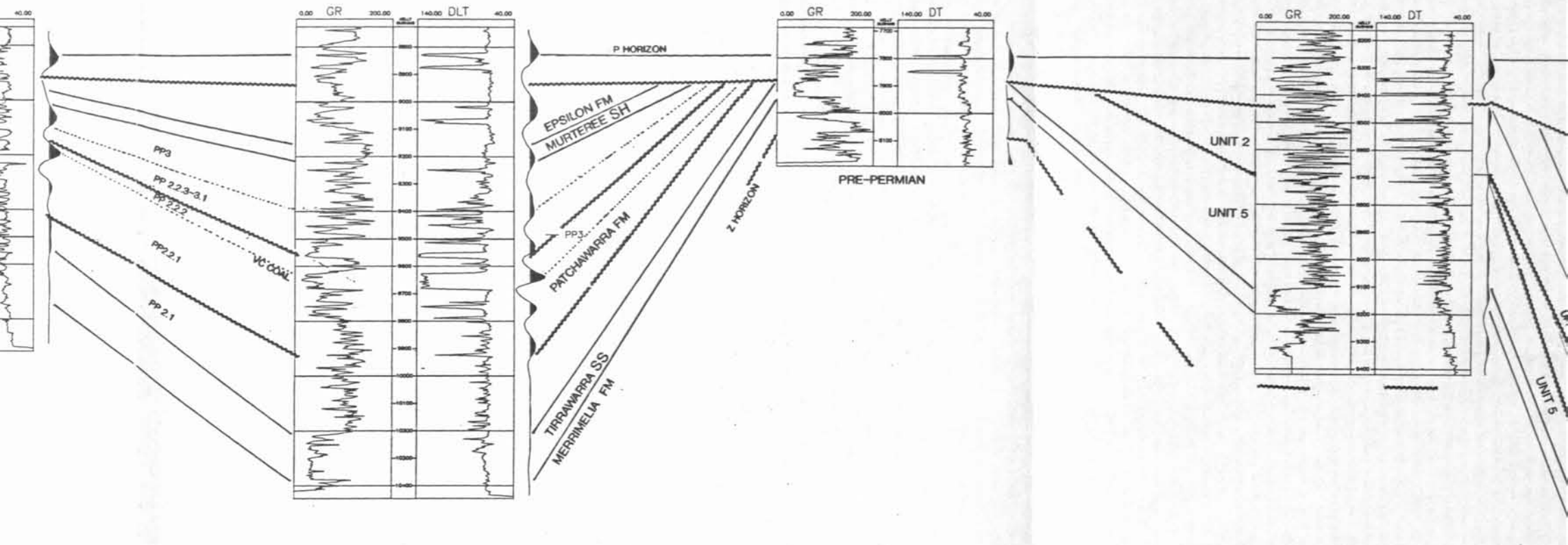
H.S : Diagramatic



STRATIGRAPHIC CROSS-SECTION

E-E'

(MOORARI-1 to MASSY-1)

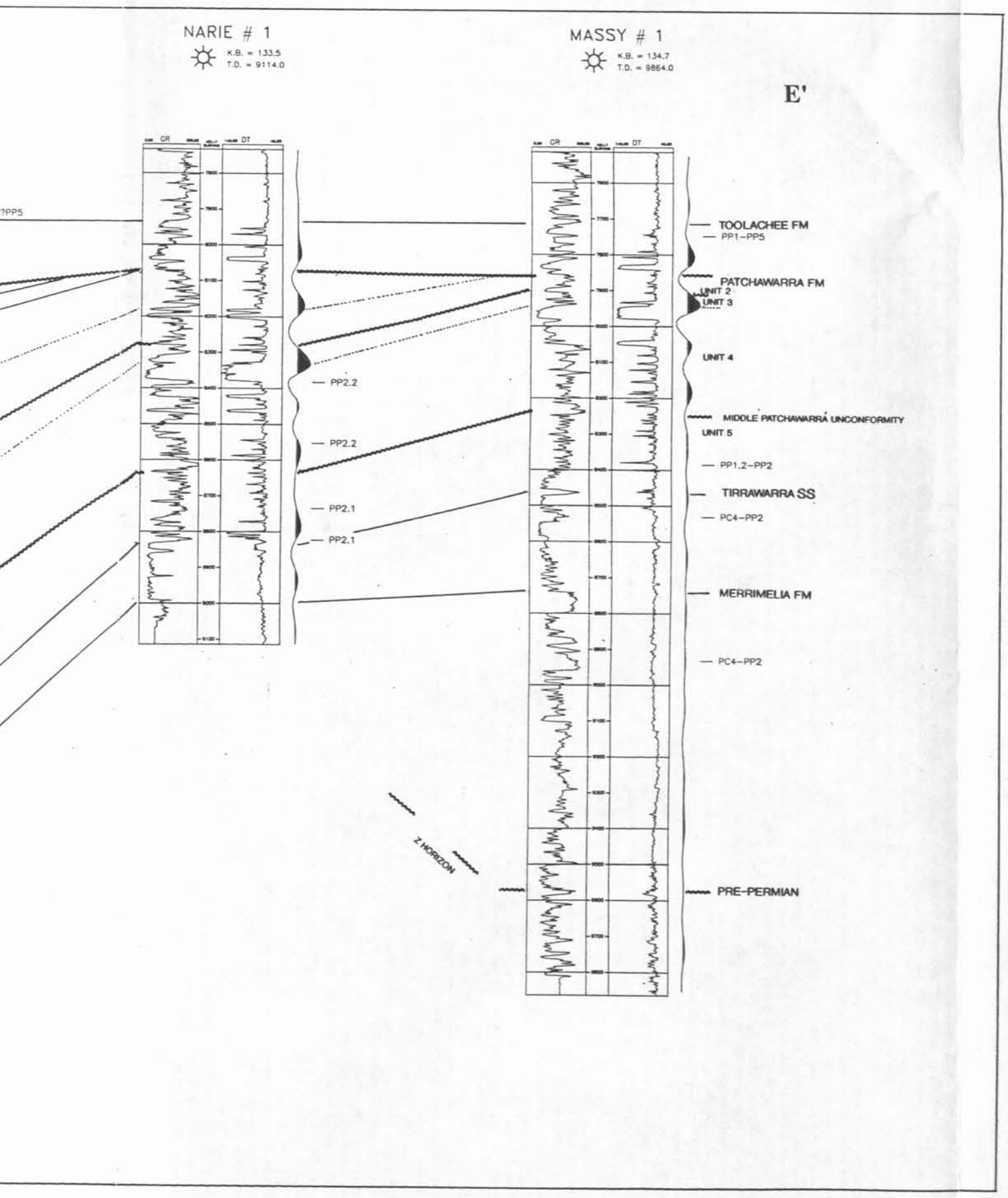


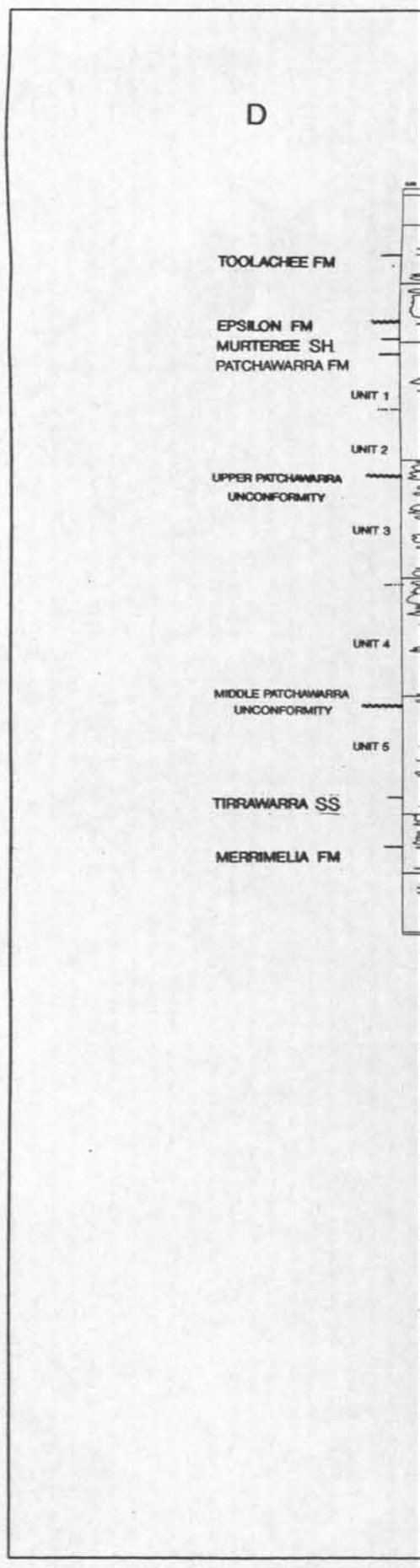
STRATIGRAPHIC CROSS-SECTION

B-B'

(FLY LAKE-1 to BURLEY-1)

H.S : Diagramatic





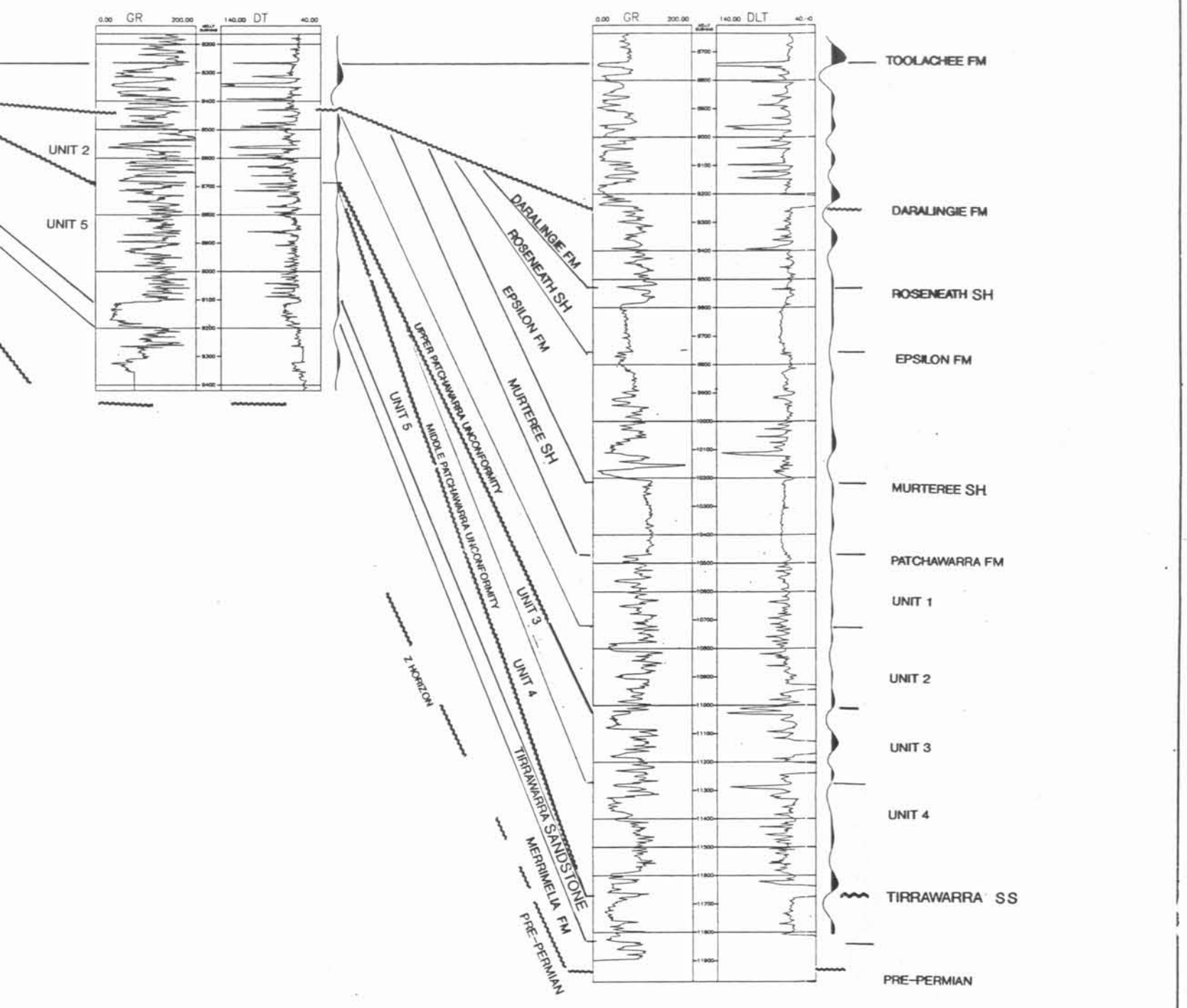
WANTANA # 2

K.B. = 155.0
T.D. = 9420.0

BURLEY # 1

K.B. = 173.2
T.D. = 11974.0

B'



FLY LAKE # 6

K.B. = 115.0
T.D. = 9604.0

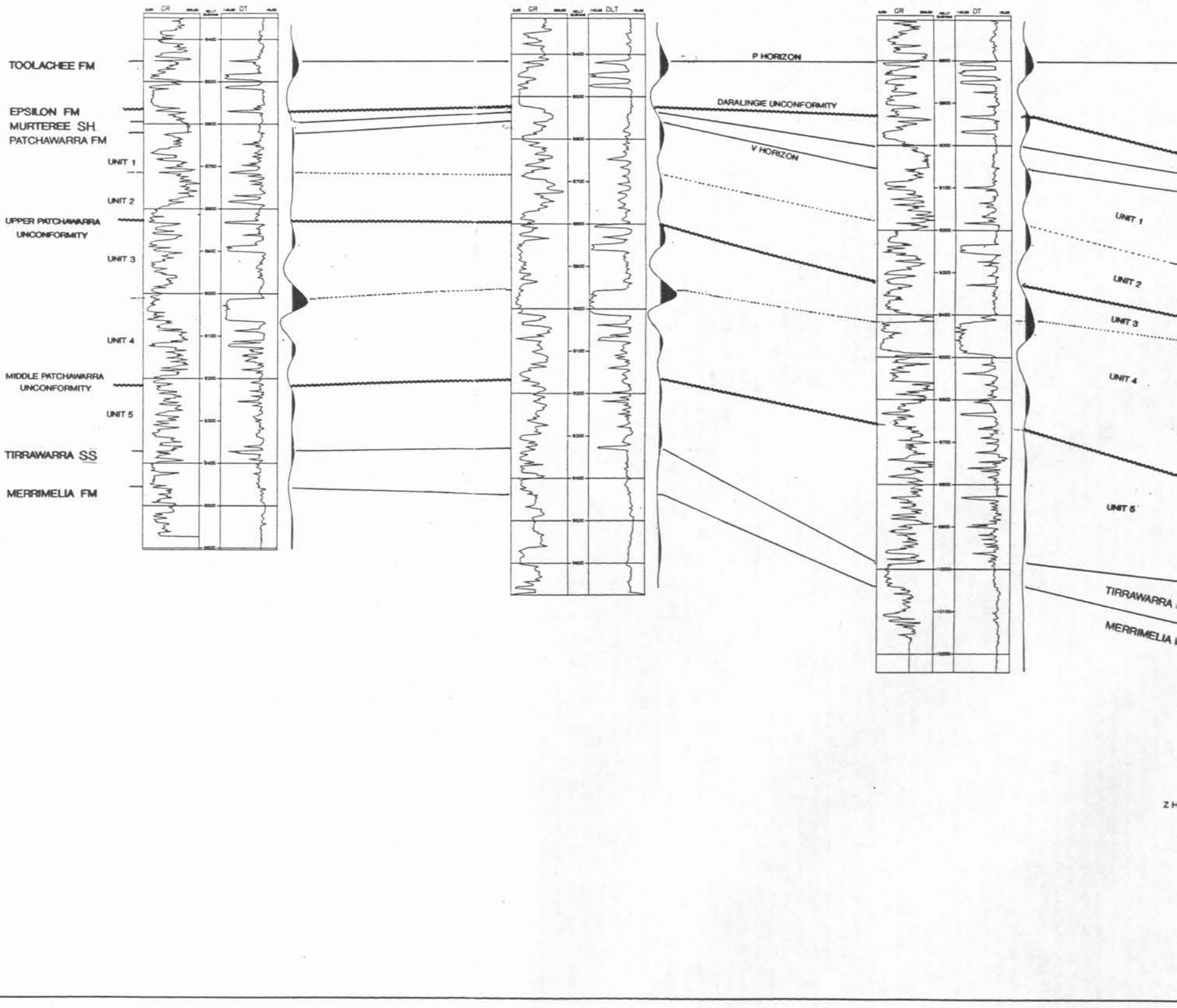
FLY LAKE # 1

K.B. = 115.3
T.D. = 9675.0

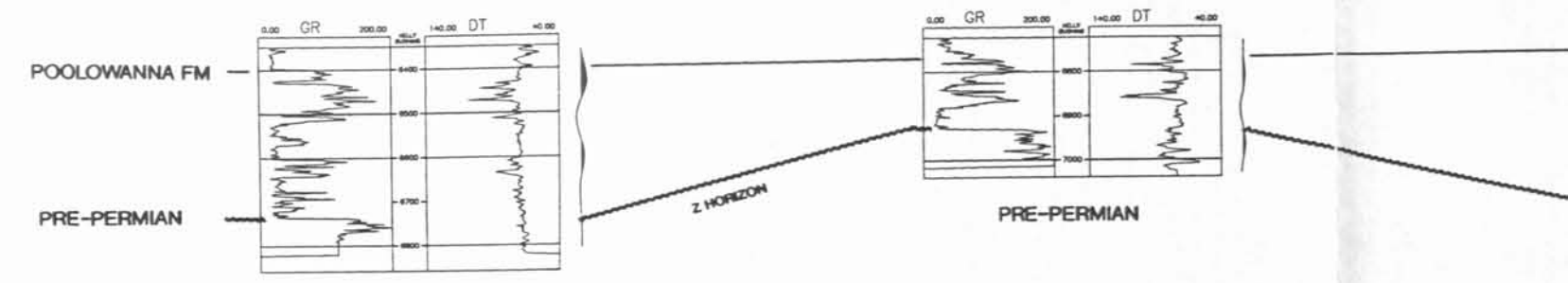
GREY # 1

K.B. = 118.5
T.D. = 10244.0

D

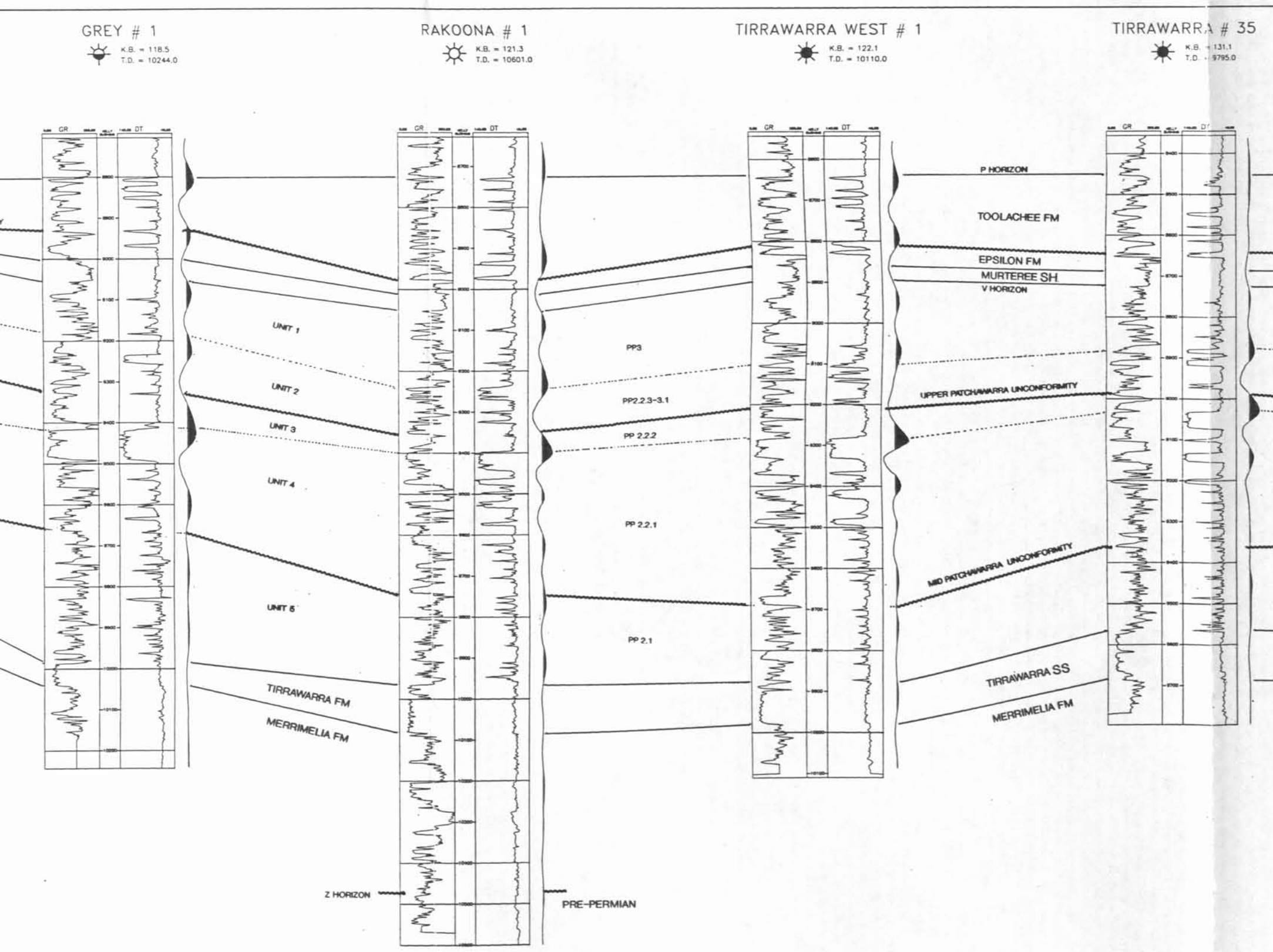


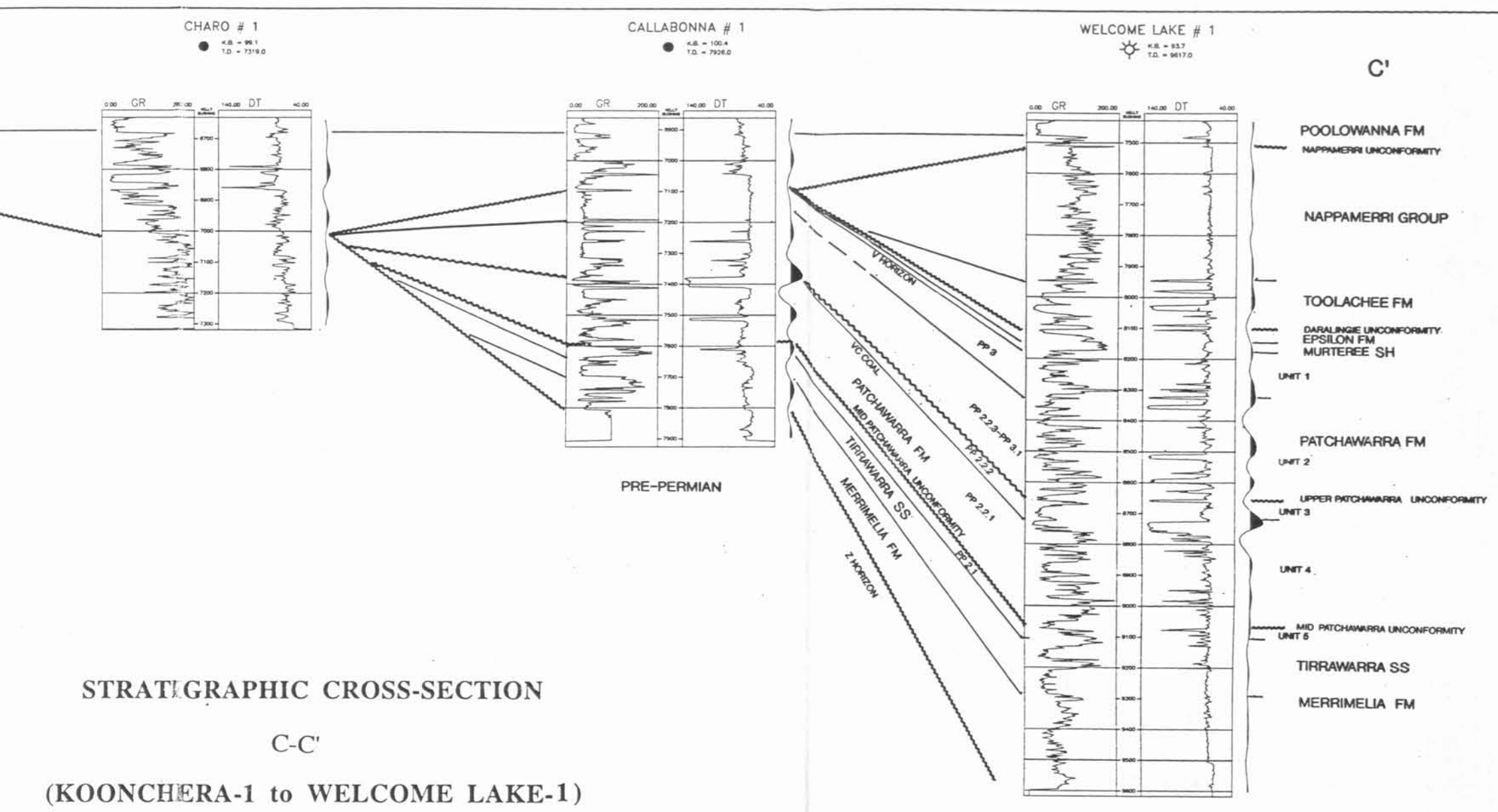
C



H.S : Diagramatic

(KC

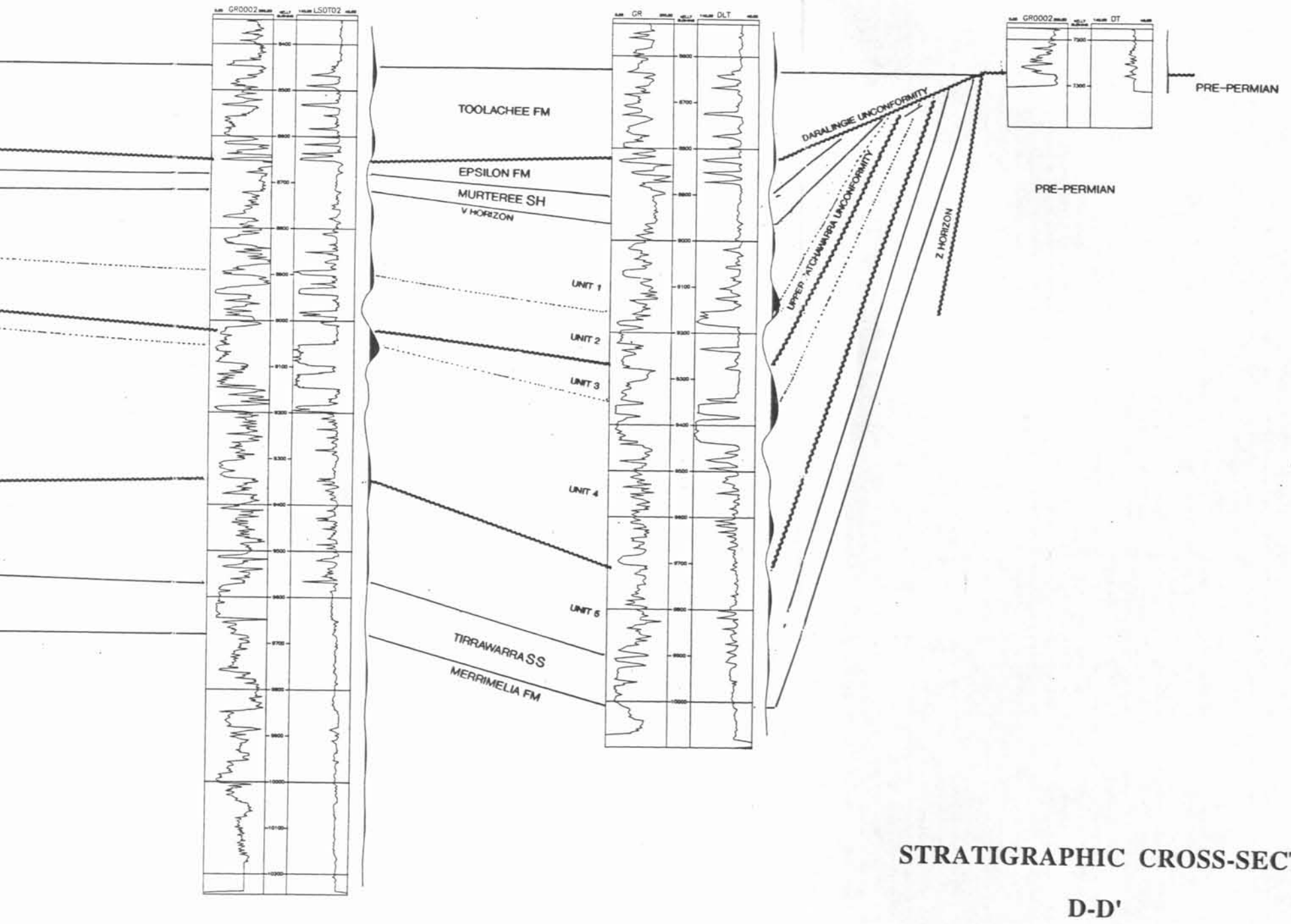




STRATIGRAPHIC CROSS-SECTION

C-C'

(KOONCHERA-1 to WELCOME LAKE-1)

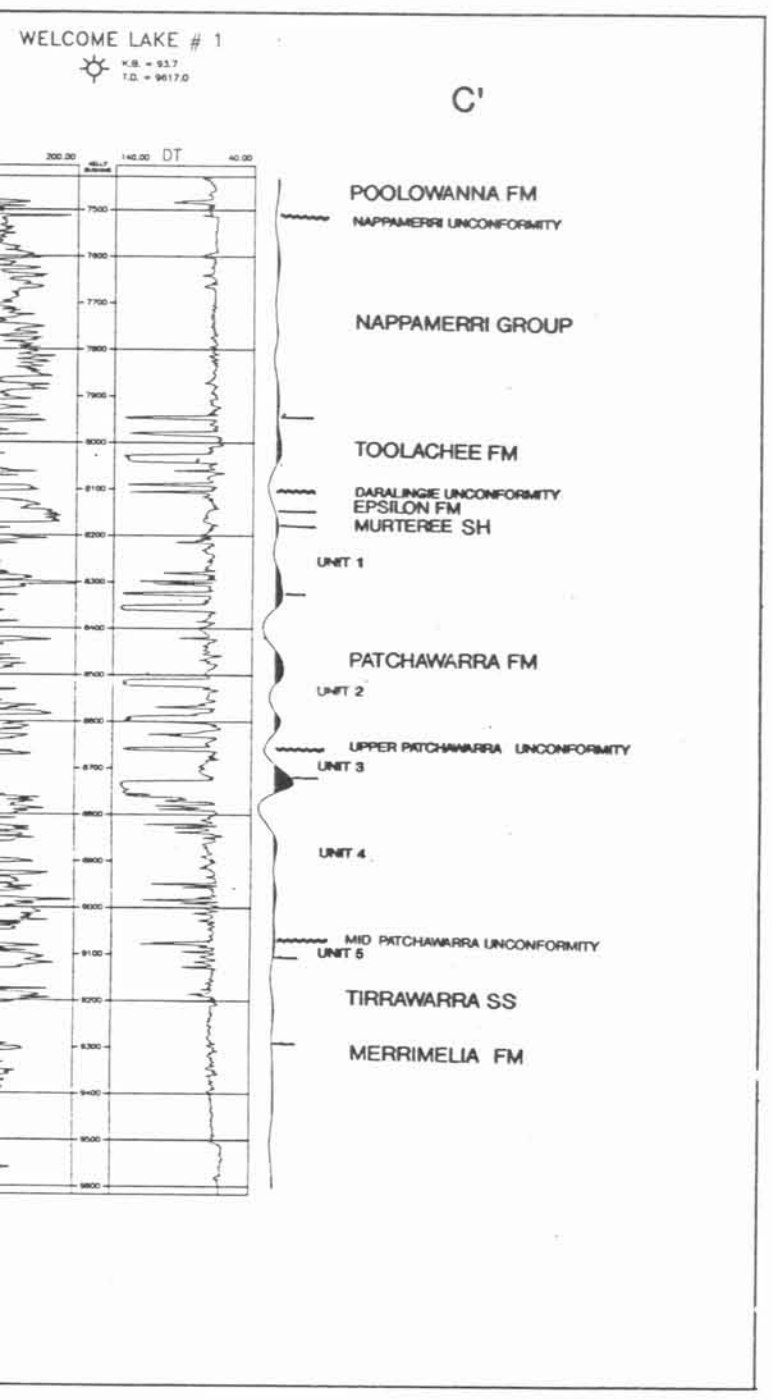


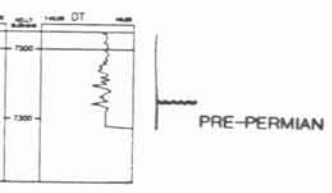
H.S : Diagramatic

STRATIGRAPHIC CROSS-SECTION

D-D'

(FLY LAKE-6 to MERRIMELIA-23)





PHIC CROSS-SECTION
D-D'
to MERRIMELIA-23)

G M I REGION

STRATIGRAPHIC CROSS–SECTIONS MONTAGE

ENCLOSURE 2.1

090PH
A639
MAPS
c.2

UNIVERSITY OF ADELAIDE LIBRARY

GMI REGION
TIRRAWARRA SANDSTONE
ISOPACH MAP

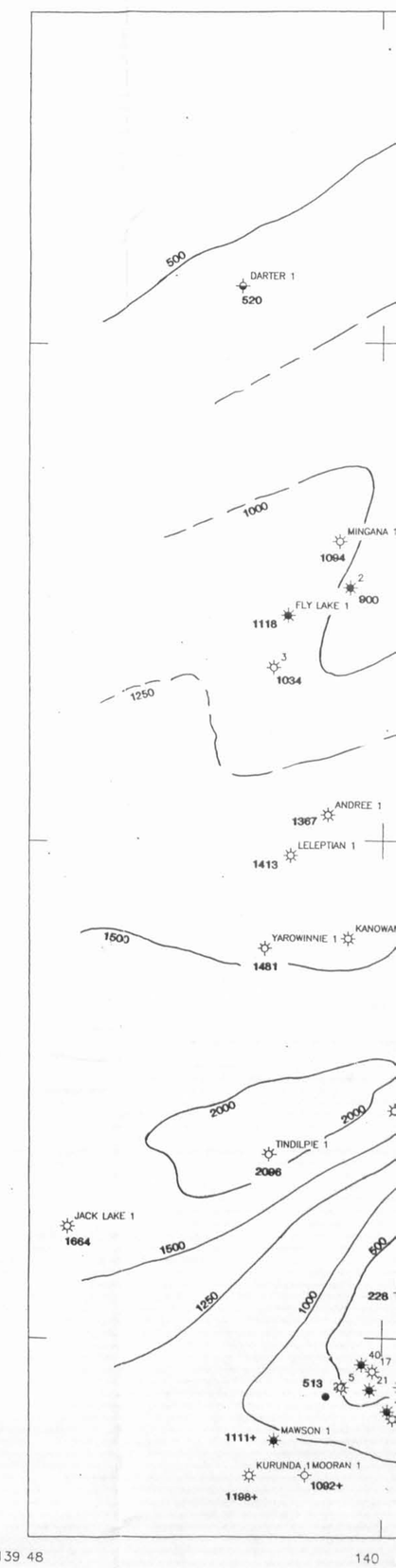
C.I. 50'

KILOMETRES 4 0 4 8 12 16 20 KILOMETRES

139 48 139 50 140 140 10 140 20 140 30 140 40 140 45

27 20 27 30 27 40 27 50 28 28 06

YANTA 1
DARTER 1 38
LAMDINA 1 84
WIMMA 1
MOOLION 1 128
MITCHIE 1 98
KUDRIEKE 1 89
LAKE MACMILLAN 1
DELIN 1 114
COONATIE 1 80 85
TOONMAN 1 260
BOOKABOURDIE 1 108
NARDU 1
TAYLOR SOUTH 1 88
TIRRAWARRA SS ABSENT
PONDRINIE 1 89 106
BALCAMINGA 1 136
MERUPA 2 82
MUDRANGIE 1 59
PIRRAMINTA 1 60
WANTANA 1 84 88
MINKIE 1
DEPARANIE 1
MINGANA 1 89
BROLGA 1 72
FLY LAKE 1 102 69 96
TIRRAWARRA NORTH 1 114
TIRRAWARRA 134 142
SPECTRE 1 74
ANDREE 1 90
VARANUS 1 98
GOORANIE 1 117
LELEPTIAN 1 129
KANOWANA 1 104
YAROWINNIE 1
MASSY 1 270
PELICAN 1 205
MERRIMELIA 1 124
BURLEY 1
MERANJI 1 170 215
SWAN LAKE 1 165
COWRALLI 1 200
SNAKE HOLE 1 236
TINDILPIE 1 276
JACK LAKE 1 185
GIDGEALPA 1
TIRRAWARRA SS ABSENT
MAWSON 1 272
KURUNDA 1
MOORAN 1 326 196
MOOMBA 1 116
MOOMBA 5 0
MOOMBA NORTH 1 77 42 149 205 173 145 171 191 14 166 126 110 55 41 102 25 123 22 0 23 100 50 150 200 250 300



GMI REGION
V-Z HORIZON
ISOPACH MAP

C.I. 250'

KILOMETRES 4 0 4 8 12 16 20 KILOMETRES

LAMDINA 1 826
MOOLION 1 560+
MITCHIE 1 960
DARTER 1 520
KUDRIEKE 1 994
LAKE MACMILLAN 1
DELIN 1 991 692
COONATIE 1 773+
TOONMAN 1 905
BOOKABOURDIE 1 796
GAMBAYA 1 531+
MOORARI 1 900
BALCAMINGA 1 1079+
MERUPA 1 774
PONDRINIE 1 517
MINGANA 1 1094
BROLGA 1 842
FLY LAKE 1 1118
TIRRAWARRA NORTH 1 1135
MUDRANGIE 1 1241
PIRRAMINTA 1
MINKIE 1
WANTANA 1 1052
DEPARANIE 1 335
TIRRAWARRA 1
ANDREE 1 1367
VARANUS 1
GOORANIE 1 1192
LELEPTIAN 1 1413
MERRIMELIA 1 1897
MASSY 1 1717
KANOWANA 1
YAROWINNIE 1 1481
COOPER CREEK 1
PELICAN 1 1034
BURLEY 1 1504
MERANJI 1 1762
SWAN LAKE 1 1322
COWRALLI 1 1628+
TINDILPIE 1 2096
SNAKE HOLE 1 871
JACK LAKE 1 1664
GIDGEALPA 1 1122
MAWSON 1 1111+
KURUNDA 1
MOORAN 1 1092+ 1198+
MOOMBA 5
MOOMBA NORTH 1 780

YANTA 1
DARTER 1
LIMIT
LELEPTIAN 1 50
YAROWINNIE 1 58
TINDILPIE 1 98
JACK LAKE 1 99
FLY LAKE 1 19
MAWSON 1 75
KURUNDA 1 MOORA 91 88
BURLEY 1
PONDRINIE 1 106 89
OSTONE

GMI REGION
MURTEREE SHALE
ISOPACH MAP

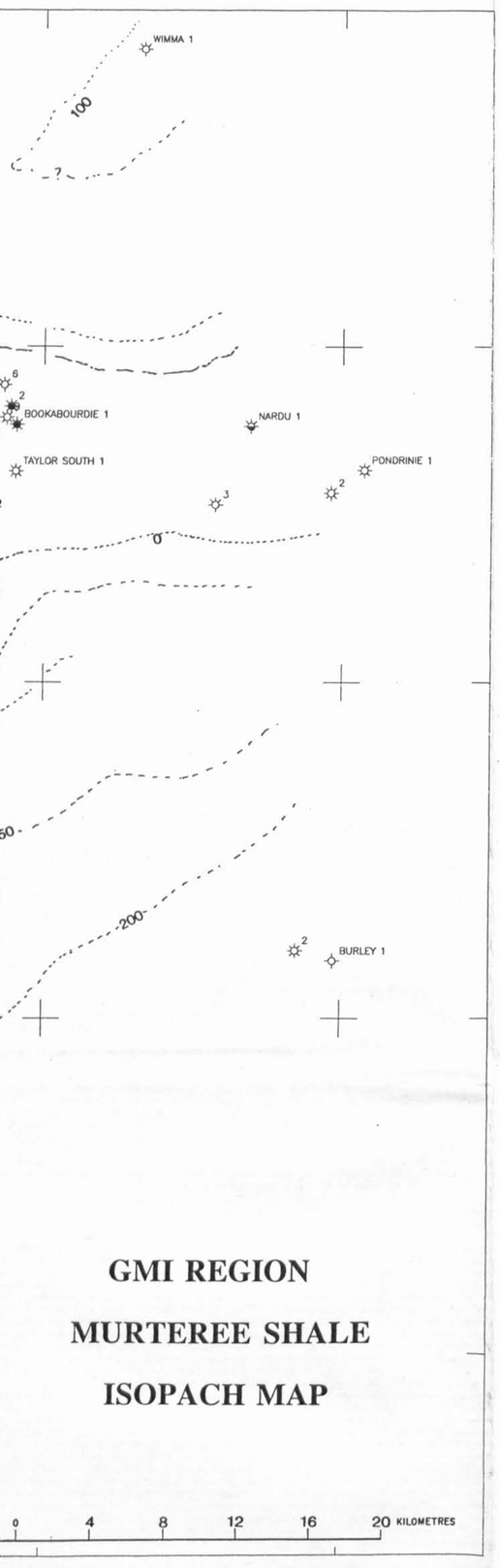
C.I. 50'

KILOMETRES 4 0 4 8 12 16 20 KILOMETRES

140 45 | 139 48 139 50 | 140 | 140 10 | 140 20 | 140 30 | 140 40 | 140 45

27 20 | 27 30 | 27 40 | 27 45 | 27 50 | 28 | 28 06

YANTA 1
LAMDINA 1
41
WIMMA 1
MOOLION 1
34
MITCHIE 1
50
DARTER 1
MURTEREE SH LIMIT
KUDRIEKE 1
LAKE MACMILLAN 1
70
DELIN 1
69
51
COONATIE 1
91
68
TOONMAN 1
49
BOOKABOURDIE 1
NARDU 1
TAYLOR SOUTH 1
PONDRINIE 1
MERUPA 2
BALCAMINGA 1
107
WOOLKINA 1
82
55
MINGANA 1
42
30
36
FLY LAKE 1
19
21
25
TIRRAWARRA NORTH 1
43
MUDRANGIE 1
82
PIRRAMINTA 1
ABSENT
WANTANA 1
MINKIE 1
DEPARANIE 1
0
SPECTRE 1
33
TIRRAWARRA
40
38
45
48
ANDREE 1
31
VARANUS 1
46
GOORANIE 1
51
71
LELEPTAN 1
50
MURTEREE SH
MERRIMELIA 1
MASSY 1
PELICAN 1
YAROWINNIE 1
58
KANOWANA 1
70
BURLEY 1
MERANJI 1
91
SWAN LAKE 1
133
COWRALLI 1
109
TINDILPIE 1
98
SNAKE HOLE 1
100
JACK LAKE 1
99
GIDGEALPA 1
102
MURTEREE SH ABSENT
MAWSON 1
75
KURUNDA 1
91
MOORAN 1
88
MOOMBA 5
MOOMBA NORTH 1
50
0 KILOMETRES



G M I REGION

FORMATIONS & GROSS ISOPACH MAPS

MONTAGE

GMI REGION

EPSILON FORMATION

ISOPACH MAP

C.I. 50'

KILOMETRES 4 0 4 8 12 16 20 KILOMETRES

139 48 139 50 140 140 10 140 20 140 30 140 40 140 45

27 20 27 30 27 40 27 50 28 28 06

GMI REGION

DARALINGIE UNCONFORMITY SUBCROP MAP

KILOMETRES 4 0 4 8 12 16 20 KILOMETRES

140 48 | 140 | 140 15 | 140 30 | 140 45

27 20 | 27 30 | 27 45 | 28 | 28 06

GMI REGION
TOOLACHEE FORMATION
ISOPACH MAP

COAL SWAMP ENVIRONMENT

POSSIBLE SOURCE DIRECTION

TOOLACHEE FM ABSENT

TOOLACHEE FM ABSENT

····· (UNIT C % Sandstone) C.I. 10

——— Thickness (TOOLACHEE FM) C.I. 50'

KILOMETRES 4 0 4 8 12 16 20 KILOMETRES

YANTA 1
LAMDINA 1
WIMMA 1
MOOLION 1
MITCHIE 1
DARTER 1
KUDRIEKE 1
LAKE MACMILLAN 1
DELIN 1
COONATIE 1
TOONMAN 1
MORORI 1
WOOLKINA 1
BROLGA 1
MINGANA 1
FLY LAKE 1
TIRRAWARRA NORTH 1
TIRRAWARRA 1
SPECTRE 1
VARANUS 1
ANDREE 1
GOORANIE 1
LELEPTIAN 1
YAROWINNIE 1
KANOWANA 1
MERRIMELIA 1
MASSY 1
PELICAN 1
MERANJI 1
SWAN LAKE 1
COWRALLI 1
SNAKE HOLE 1
TINDILPIE 1
JACK LAKE 1
GIDGEALPA 1
MAWSON 1
KURUNDA 1
MOORAN 1
MOOMBA NORTH 1
BOOKABOURDIE 1
NARDU 1
PONDRINIE 1
TAYLOR SOUTH 1
BALCAMINGA 1
MERUPA 2
PIRRAMINTA 1
MUDRANGIE 1
MINKIE 1
WANTANA 1
DEPARANIE 1
BURLEY 1

100 150 200 50 250 300 400

139 48 140 140 15 140 30 140 45

27 20 27 30 27 45 28 28 06

LAMDINA 1 236
473
MOOLION 1 231
MITCHIE 1 260
DARTER 1
KUDRIEKE 1 281
LAKE MACMILLAN 1 314
DELIN 1 344
314 COONATIE 1 365
TOONMAN 1 289
276
MOORARI 1 204
187 BROLGA 1
MINGANA 1 190
FLY LAKE 1 443
206
TIRRAWARRA NORTH 1 302
294
267
TIRRAWARRA 1 295
312
309
ANDREE 1
VARANUS 1 366
GOORANIE 1 330
LELEPTIAN 1 317
106
84
55 MERRIMELIA 1
MASSY 1 141
YAROWINNIE 1 431
KANOWANA 1 469
COOPER CREEK 1
PELICAN 1 171
394 MERANJI 1
SWAN LAKE 1 485
597 COWRALLI 1
607 TINDILPIE 1
615
JACK LAKE 1 577
SNAKE HOLE 1 303
176
GIDGEALPA 1 395
154
137
155
145
177
176
MAWSON 1 241
KURUNDA 1
MOORAN 1 258
294
942
998
MOOMBA 5
1051
MOOMBA NORTH 1 1130
BALCAMINGA 1 290
70
137
BOOKABOURDIE 1 94
128
TIMBAYA 1 60
MERUPA 1 130
PIRRAMINTA 1 82
MUDRANGIE 1
MINKIE 1
DEPARANIE 1 123
WANTANA 1 141
29
PONDRINIE 1 91
116
PRE-PERMIAN
0
100
200
300
400
500
600
700
800
900
1000
1500
Thickening
Thickening
BUPLEY 1
1734

GMI REGION

P-V HORIZON ISOPACH MAP

C.I. 100'

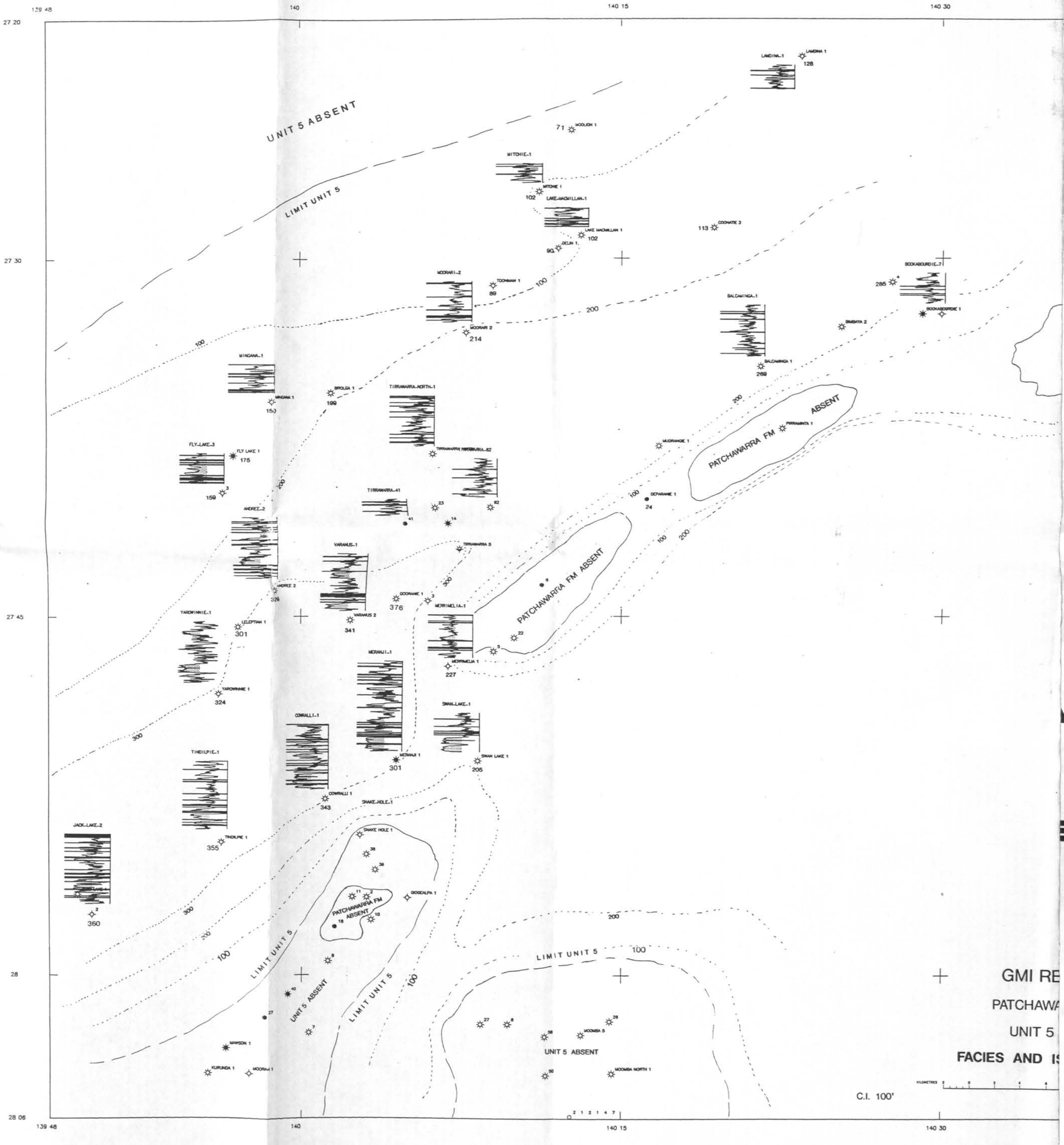
KILOMETRES 4 0 4 8 12 16 20 KILOMETRES



ENCLOSURE 2.2

090PH
A639
MAPS
c.2

UNIVERSITY OF DELAWARE LIBRARY



GMI REGION

PATCHAWARRA FM

UNIT 5 PP 2.1

FACIES AND ISOPACH MAP

C.I. 100'

KILOMETRES 0 2 4 6 8 10 KILOMETRES

SUKRU N. APAK
© NCPGG

139 48 140 140 15 140 30 140 45

27 20 27 30 27 45 28 28 06

GMI REGION

PATCHAWARRA FM

UNIT 4 PP 2.2.1

FACIES AND ISOPACH MAP

C.I. 100'

KILOMETRES 0 2 4 6 8 10 KILOMETRES

SUKRU N. APAK
© NCPGG

139 48 | 140 | 140 15 | 140 30 | 140 45

27 20 | 27 30 | 27 45 | 28 | 28 06

GMI REGION

PATCHAWARRA FM

UNIT 3 PP 2.2.2

FACIES AND ISOPACH MAP

C.I. 100'

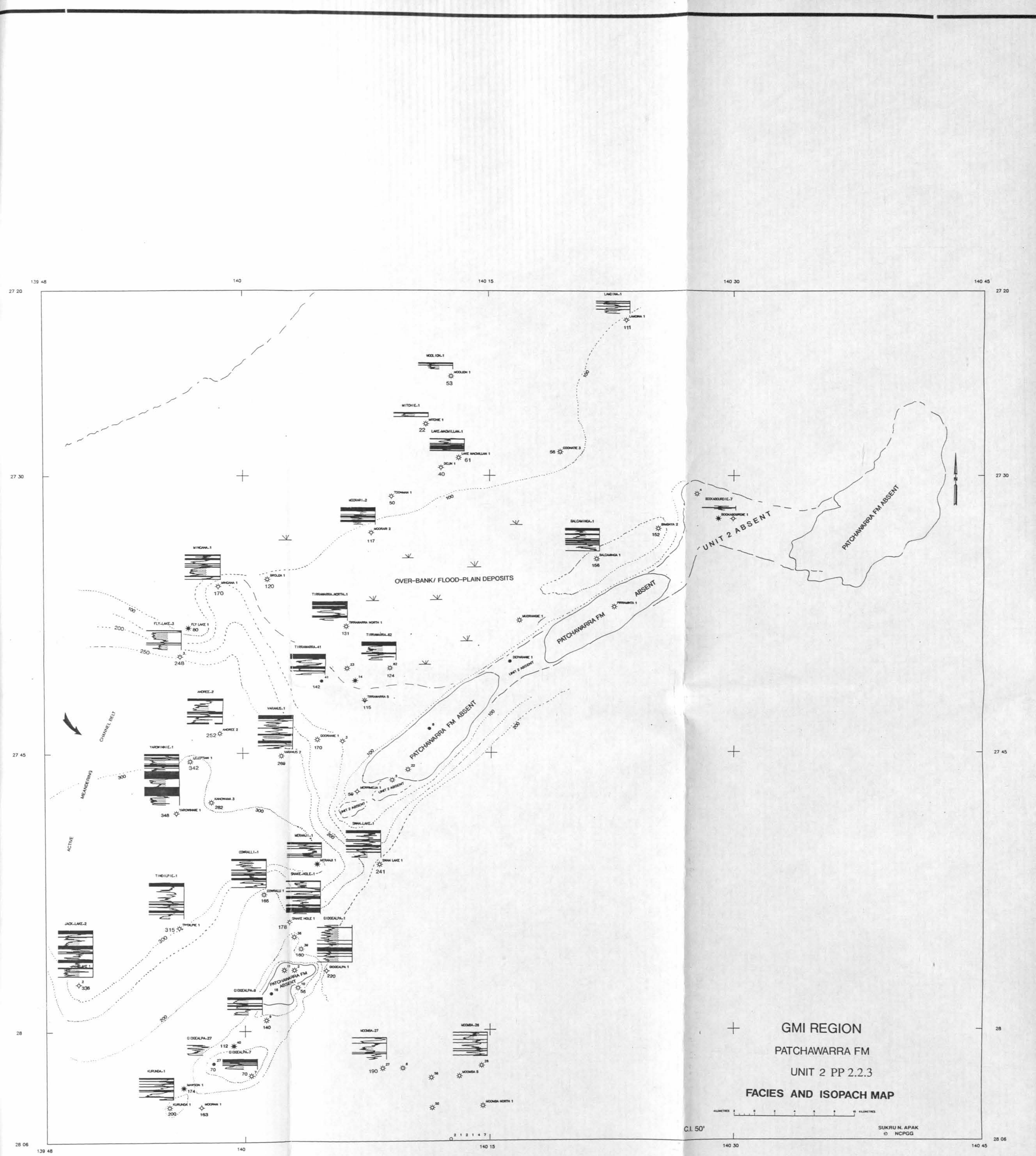
KILOMETRES 0 0 2 4 6 8 10 KILOMETRES

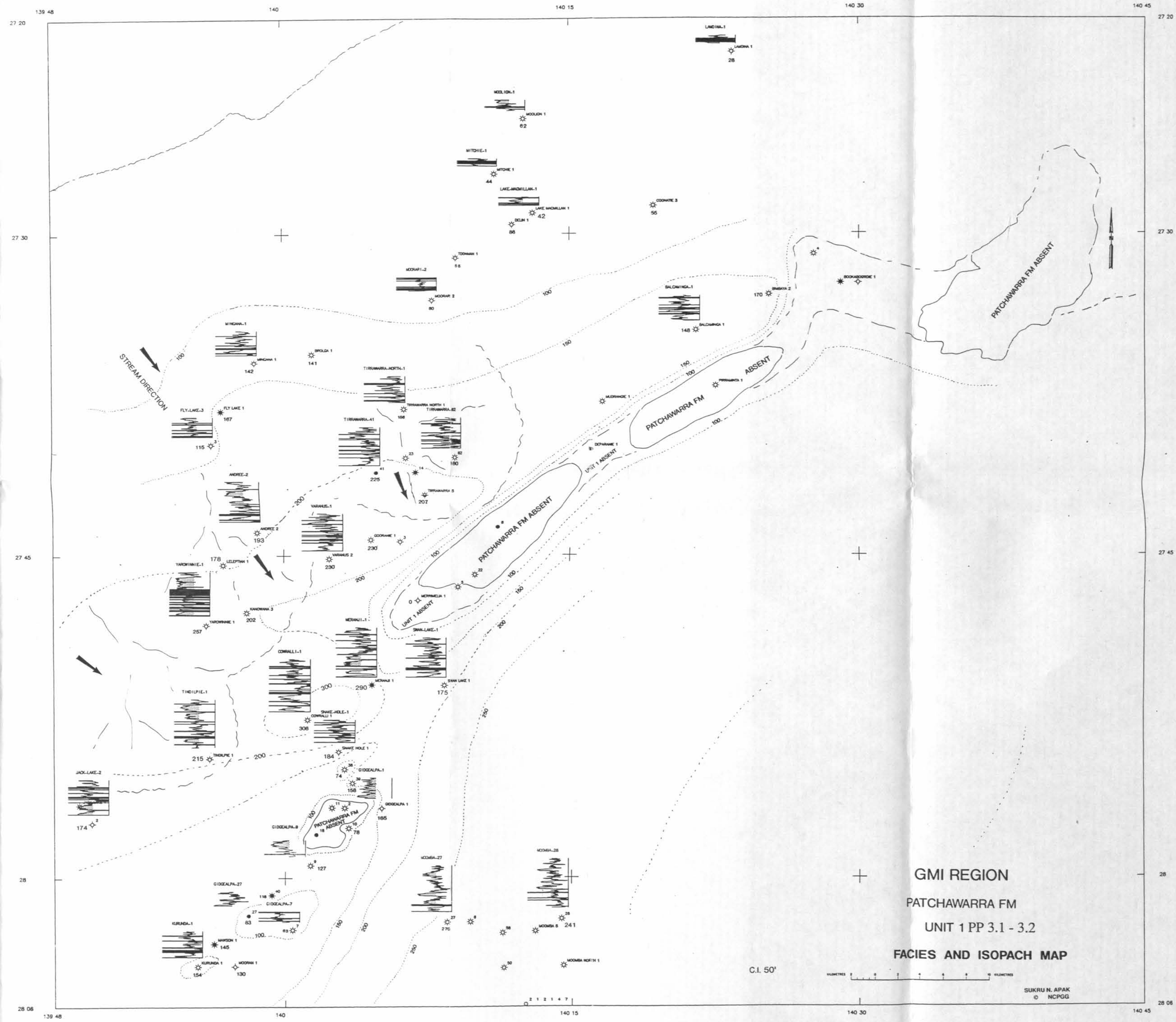
SUKRU N. APAK

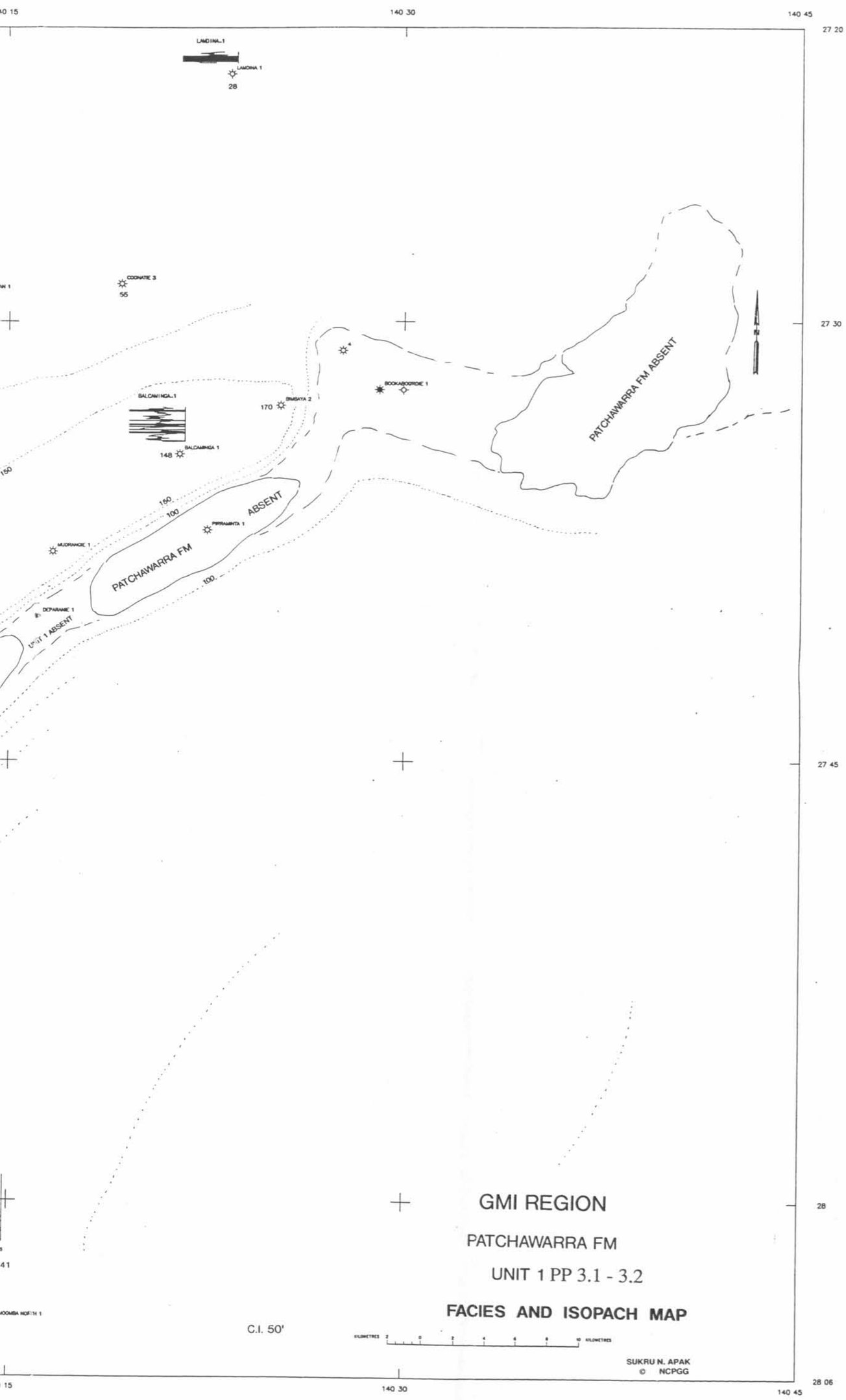
© NCPGG

139 48 140 140 15 140 30 140 45

27 20 27 30 27 45 28 28 06


139 48
140
140 15
140 30
140 45
27 20
27 30
27 45
28
28 06
LANDINA-1
LAMDINA 1
111
MODLION-1
MODLION 1
53
MITCHIE-1
MITCHIE 1
22
LAKE-MACMILLAN-1
LAKE MACMILLAN 1
61
DELIN 1
40
COONATIE 3
56
100
TOOMAN 1
50
MOORARI-2
MOORARI 2
117
BALCAMINGA-1
BALCAMINGA 1
156
BIMBAYA 2
152
BOOKABOURDIE-7
BOOKABOURDIE 1
UNIT 2 ABSENT
PATCHAWARRA FM ABSENT
MINGANA-1
MINGANA 1
170
BIROLA 1
120
OVER-BANK/ FLOOD-PLAIN DEPOSITS
TIRRAWARRA-NORTH-1
TIRRAWARRA NORTH 1
131
FLY-LAKE-3
FLY LAKE 1
80
200
250
248
TIRRAWARRA-41
TIRRAWARRA-82
142
124
MUDRANGIE 1
DEPARANIE 1
PATCHAWARRA FM
ABSENT
TIRRAWARRA 5
115
ANDREE-2
ANDREE 2
252
VARANUS-1
VARANUS 2
269
GOORANIE 1
170
CHANNEL BELT
MEANDERING
ACTIVE
YAROMINNIE-1
YAROMINNIE 1
348
ULLEPTIAN 1
342
KANOWANA 3
282
300
MERRIMELIA 1
UNIT 2 ABSENT
SWAN-LAKE-1
SWAN LAKE 1
241
MERANJI-1
MERANJI 1
COWRALLI-1
COWRALLI 1
165
SNAKE-HOLE-1
SNAKE HOLE 1
178
TINDILPIE-1
TINDILPIE 1
315
JACK-LAKE-2
JACK LAKE 1
338
GIDGEALPA-1
GIDGEALPA 1
160
220
GIDGEALPA-9
140
GIDGEALPA-27
112
GIDGEALPA-7
70
KURUNDA-1
KURUNDA 1
200
MARSON 1
174
MOOMAN 1
163
MOOMBA-27
190
MOOMBA-26
MOOMBA 5
MOOMBA NORTH 1
50
GMI REGION
PATCHAWARRA FM
UNIT 2 PP 2.2.3
FACIES AND ISOPACH MAP
KILOMETRES 2 0 2 4 6 8 10 KILOMETRES
C.I. 50'
SUKRU N. APAK
© NCPGG


139 48
140
140 15
140 30
140 45
27 20
27 30
27 45
28
28 06
LAMONA-1
LAMONA 1
28
MOOLION-1
MOOLION 1
62
MITCHIE-1
MITCHIE 1
44
LAKE-MACMILLAN-1
LAKE MACMILLAN 1
42
DELIN 1
86
COONATIE 3
55
TOOHAMA 1
56
MOORARI-2
MOORARI 2
80
BALOMINGA-1
BALOMINGA 1
148
BIMBAYA 2
170
BOOKABOORDIE 1
PATCHAWARRA FM ABSENT
MINGANA-1
MINGANA 1
142
BROLGA 1
141
STREAM DIRECTION
TIRRAWARRA-NORTH-1
TIRRAWARRA NORTH 1
156
TIRRAWARRA-82
180
TIRRAWARRA-41
225
TIRRAWARRA 5
207
MUDRANGIE 1
TIRRAMANTA 1
ABSENT
PATCHAWARRA FM
DEPARANIE 1
UNIT 1 ABSENT
FLY-LAKE-3
FLY LAKE 1
167
115
ANDREE-2
ANDREE 2
193
VARANUS-1
VARANUS 2
230
GOORAME 1
230
178
LEUPTAN 1
YAROMINNIE-1
YAROMINNIE 1
257
KANOWANA 3
202
MERANJI-1
MERANJI 1
290
SWAN-LAKE-1
SWAN LAKE 1
175
COWRALLI-1
COWRALLI 1
308
SNAKE-HOLE-1
SNAKE HOLE 1
184
TINDILPIE-1
TINDILPIE 1
215
JACK-LAKE-2
174
GIDGEALPA-1
GIDGEALPA 1
165
158
74
GIDGEALPA-9
127
GIDGEALPA-27
GIDGEALPA-7
83
KURUNDA-1
KURUNDA 1
154
MARSON 1
145
MOORAN 1
130
MOOMBA-27
MOOMBA-28
MOOMBA 5
241
MOOMBA NORTH 1
100
150
200
250
300
C.I. 50'
GMI REGION
PATCHAWARRA FM
UNIT 1 PP 3.1 - 3.2
FACIES AND ISOPACH MAP
KILOMETRES
SUKRU N. APAK
© NCPGG



GMI REGION

PATCHAWARRA FM UNITS

FACIES & ISOPACH MAPS

MONTAGE

ENCLOSURE 2.3

090PH
A639
MAPS
C.2

UNIVERSITY OF ADELAIDE
LIBRARY

139 48

140

140 15

27 20

27 30

27 45

UNIT 5 ABSENT

LIMIT UNIT 5

LAMDINA-1

LAMDINA 1
128

71 MOOLION 1

MITCHIE-1

MITCHIE 1
102

LAKE-MACMILLAN-1

LAKE MACMILLAN 1
102

DELIN 1
90

113 COONATIE 3

MOORARI-2

TOONMAN 1
89

MOORARI 2
214

100

200

285 4

BALCAMINGA-1

BIMBAYA 2

BALCAMINGA 1
269

MINGANA-1

MINGANA 1
150

BROLGA 1
199

TIRRAWARRA-NORTH-1

TIRRAWARRA-62

FLY-LAKE-3

FLY LAKE 1
175

159 3

TIRRAWARRA-41

41

23

62

14

ANDREE-2

ANDREE 2
329

VARANUS-1

VARANUS 2

TIRRAWARRA 5

300

GOORANIE 1
376

3

MERRIMELIA-1

YAROWINNIE-1

LELEPTIAN 1

PATCHAWARRA FM ABSENT

PATCHAWARRA FM

ABSENT

PIRRAMINTA 1

MUDRANGIE 1

DEPARANIE 1
24

8

140 15

140 30

140 45

27 20

27 30

27 45

LAMDINA-1

LAMDINA 1

128

71 MOOLION 1

MITCHIE-1

MITCHIE 1

102

LAKE-MACMILLAN-1

LAKE MACMILLAN 1

102

DELIN 1

90

113 COONATIE 3

BOOKABOURDIE-7

285 4

BOOKABOURDIE 1

MOORARI-2

TOONMAN 1

89

100

200

MOORARI 2

214

BALCAMINGA-1

BALCAMINGA 1

269

BIMBAYA 2

PATCHAWARRA FM ABSENT

AWARRA-NORTH-1

TIRRAWARRA NORTH-62

23

62

41

14

TIRRAWARRA 5

200

PIRRAMINTA 1

PATCHAWARRA FM ABSENT

MUDRANGIE 1

100

DEPARANIE 1

24

100

200

300

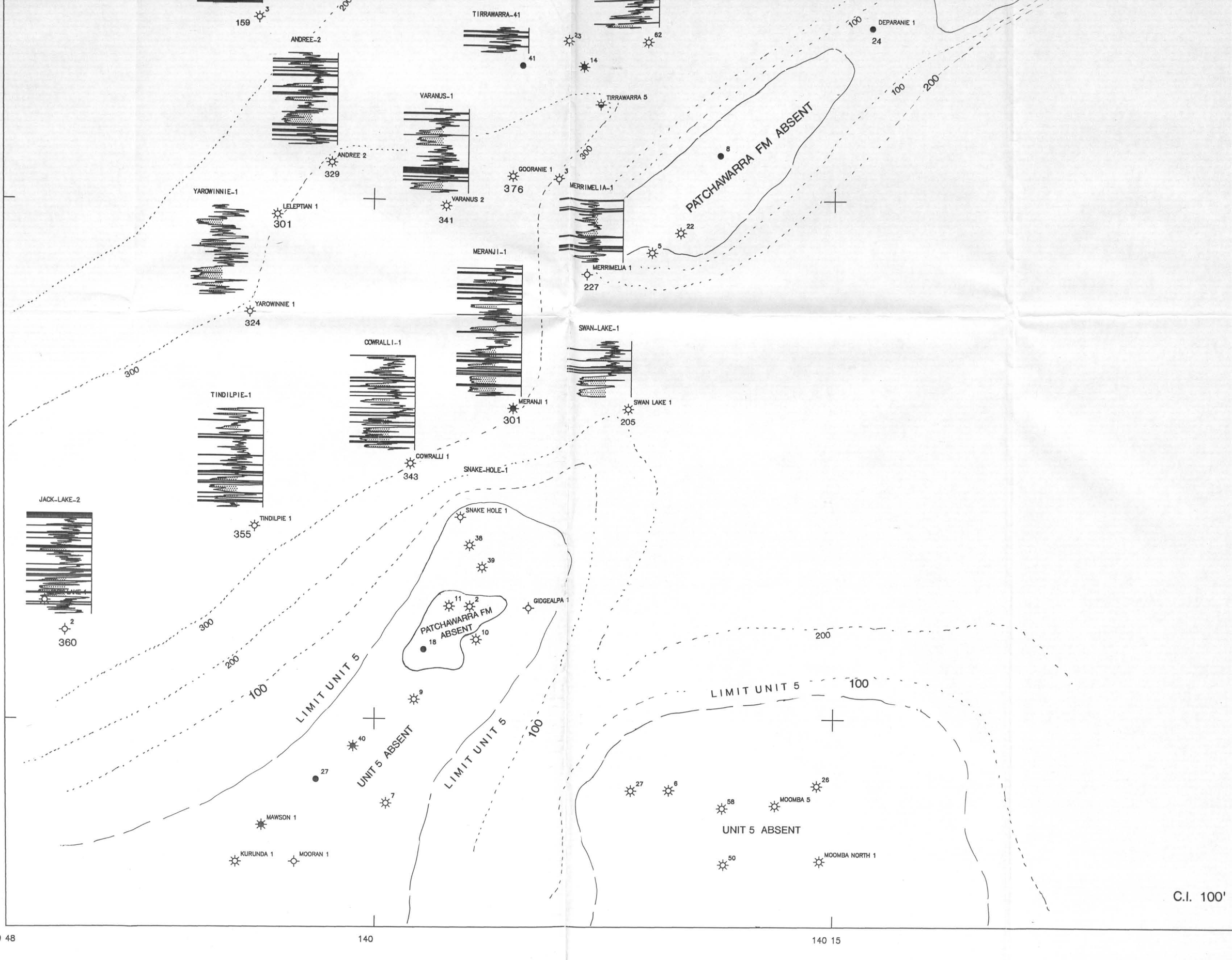
8

GOORANIE 1

3

MERRIMELIA-1

PATCHAWARRA FM ABSENT


159
3
200
TIRRAWARRA-41
41
23
62
14
DEPARANIE 1
24
100
ANDREE-2
TIRRAWARRA 5
VARANUS-1
ANDREE 2
329
300
GOORANIE 1
376
3
MERRIMELIA-1
8
PATCHAWARRA FM ABSENT
22
5
MERRIMELIA 1
227
YAROWINNIE-1
LELEPTIAN 1
301
VARANUS 2
341
YAROWINNIE 1
324
MERANJI-1
MERANJI 1
301
SWAN-LAKE-1
SWAN LAKE 1
205
COWRALLI-1
COWRALLI 1
343
TINDILPIE-1
TINDILPIE 1
355
SNAKE-HOLE-1
SNAKE HOLE 1
38
39
JACK-LAKE-2
2
360
11
2
PATCHAWARRA FM
ABSENT
18
10
GIDGEALPA 1
LIMIT UNIT 5
UNIT 5 ABSENT
40
27
9
7
MAWSON 1
KURUNDA 1
MOORAN 1
27
6
58
MOOMBA 5
26
UNIT 5 ABSENT
50
MOOMBA NORTH 1
C.I. 100'
27 45
28
28 06
139 48
140
140 15

DEPARANIE 1
24
100
23
62
41
14
TIRRAWARRA 5
100
200
PATCHAWARRA FM ABSENT
8
300
DORANIE 1
3
MERRIMELIA-1
22
5
MERRIMELIA 1
227
SWAN-LAKE-1
CRANJI 1
SWAN LAKE 1
205
GIDGEALPA 1
200
LIMIT UNIT 5
100
100
27
6
26
58
MOOMBA 5
UNIT 5 ABSENT
50
MOOMBA NORTH 1

GMI REGION

PATCHAWARRA FM

UNIT 5 PP 2.1

FACIES AND ISOPACH MAP

KILOMETRES 2 0 2 4 6 8 10 KILOMETRES

C.I. 100'

SUKRU N. APAK
© NCPGG

140 15
140 30
140 45
27 45
28
28 06

ENCLOSURE 2.3a

090 PH
A639
MAPS
c.2
UNIVERSITY OF ADELAIDE
LIBRARY

140

140 15

27 20

27 30

27 45

UNIT 4 ABSENT

SOURCE DIRECTION

LAMDINA-1

LAMDINA 1

297

MOOLION-1

MOOLION 1

146

MITCHIE-1

LAKE-MACMILLAN-1

166

200

LAKE MACMILLAN 1

297

DELIN 1

341

COONATIE 3

320

MOORARI-2

TOONMAN 1

240

MOORARI 2

250

BALCAMINGA-1

BIMBAYA 2

BALCAMINGA 1

200

UNIT 4 ABSENT

MINGANA-1

MINGANA 1

266

BROLGA 1

258

TIRRAWARRA-NORTH-1

300

PIRRAMINTA 1

PATCHAWARRA FM

ABSENT

MUDRANGIE 1

FLY-LAKE-3

FLY LAKE 1

205

3

270

200

TIRRAWARRA-41

TIRRAWARRA-62

23

14

62

342

294

41

DEPARANIE 1

UNIT 4 ABSENT

ANDREE-2

ANDREE 2

332

VARANUS-1

VARANUS 2

288

TIRRAWARRA 5

245

PATCHAWARRA FM ABSENT

8

YAROWINNIE-1

GOORANIE 1

321

MERRIMELIA-1

3

LELEPTIAN 1

140 15

140 30

140 45

27 20

27 30

27 45

LAMDINA-1

LAMDINA 1

297

MOOLION-1

MOOLION 1

146

MITCHIE-1

LAKE-MACMILLAN-1

166

200

LAKE MACMILLAN 1

297

DELJN 1

341

COONATIE 3

320

MOORARI-2

TOONMAN 1

240

MOORARI 2

250

BOOKABOURDIE-7

BOOKABOURDIE 1

BIMBAYA 2

BALCAMINGA-1

BALCAMINGA 1

200

UNIT 4 ABSENT

PATCHAWARRA FM ABSENT

PATCHAWARRA FM

PIRRAMINTA 1

MUDRANGIE 1

300

TIRRAWARRA-62

342

TIRRAWARRA 5

245

DEPARANIE 1

UNIT 4 ABSENT

PATCHAWARRA FM ABSENT

MERRIMELIA-1

22

N

ANDREE-2
VARANUS-1
YAROWINNIE-1
LELEPTIAN 1
360
ANDREE 2
332
VARANUS 2
288
GOORANIE 1
321
MERRIMELIA-1
MERRIMELIA 1
296
SWAN-LAKE-1
SWAN LAKE 1
341
DEPARANIE 1
UNIT 4 ABSENT
PATCHAWARRA FM ABSENT
TIRRAWARRA 5
245
294
342
270
KANOWANA 3
390
YAROWINNIE 1
340
COWRALLI-1
VC COAL
MERANJI-1
MERANJI 1
298
TINDILPIE-1
TINDILPIE 1
290
COWRALLI 1
390
SNAKE-HOLE-1
SNAKE HOLE 1
256
GIDGEALPA-1
GIDGEALPA 1
269
JACK-LAKE-2
280
GIDGEALPA-9
57
PATCHAWARRA FM ABSENT
GIDGEALPA-27
GIDGEALPA-7
116
96
106
KURUNDA-1
KURUNDA 1
334
MAWSON 1
332
MOORAN 1
324
MOOMBA-27
193
173
MOOMBA 5
MOOMBA NORTH 1
120
300
200
100
C.I.
27 45
28
28 06
139 48
140
140 15

DEPARANIE 1

UNIT 4 ABSENT

23

62

342

14

TIRRAWARRA 5

245

200

PATCHAWARRA FM ABSENT

8

MERRIMELIA-1

3

22

5

200

MERRIMELIA 1

296

UNIT 4 ABSENT

300

SWAN-LAKE-1

SWAN LAKE 1

341

EALPA-1

EALPA 1

39

300

200

100

MOOMBA-27

193

27

6

173

58

26

MOOMBA 5

50

MOOMBA NORTH 1

300

200

27 45

28

GMI REGION

PATCHAWARRA FM

UNIT 4 PP 2.2.1

FACIES AND ISOPACH MAP

KILOMETRES 2 0 2 4 6 8 10 KILOMETRES

C.I. 100'

SUKRU N. APAK
© NCPGG

140 15

140 30

140 45

28 06

ENCLOSURE 2.3b

090PH
A639
maps
c.2

UNIVERSITY OF ADELAIDE LIBRARY

39 48

140

140 15

27 20

27 30

27 45

UNIT 3 ABSENT

LAMDINA 1

MOOLION 1

MITCHIE 1

LAKE-MACMILLAN-1

LAKE MACMILLAN 1

COONATIE 3

DELIN 1

TOONMAN 1

10

MOORARI-2

MOORARI 2

BIMBAYA 2

BALCAMINGA-1

BALCAMINGA 1

48

MINGANA 1

BROLGA 1

TIRRAWARRA-NORTH-1

TIRRAWARRA NORTH 1

68

FLY-LAKE-3

FLY LAKE 1

3

70

PIRRAMINTA 1

MUDRANGIE 1

PATCHAWARRA FM ABSENT

LIMIT UNIT 3

DEPARANIE 1

UNIT 3 ABSENT

LIMIT UNIT 3

TIRRAWARRA-62

1

62

18

23

14

TIRRAWARRA-41

41

22

38

TIRRAWARRA 5

SOURCE DIRECTION

ANDREE-2

ANDREE 2

60

VARANUS-1

VARANUS 2

44

GOORANIE 1

3

59

8

PATCHAWARRA FM ABSENT

LELEPTIAN 1

140 15

140 30

140 45

27 20

27 30

27 45

LAMDINA 1

MOOLION 1

MITCHIE 1

LAKE-MACMILLAN-1

LAKE MACMILLAN 1

COONATIE 3

DELIN 1

TOONMAN 1

10

MOORARI-2

MOORARI 2

UNIT 3 ABSENT

4

BOOKABOURDIE 1

BIMBAYA 2

BALCAMINGA-1

BALCAMINGA 1

48

PATCHAWARRA FM ABSENT

TIRRAWARRA-NORTH-1

TIRRAWARRA NORTH 1

68

PIRRAMINTA 1

MUDRANGIE 1

PATCHAWARRA FM

ABSENT

LIMIT UNIT 3

TIRRAWARRA-62

DEPARANIE 1

UNIT 3 ABSENT

LIMIT UNIT 3

23

62

18

14

22

41

38

TIRRAWARRA 5

8

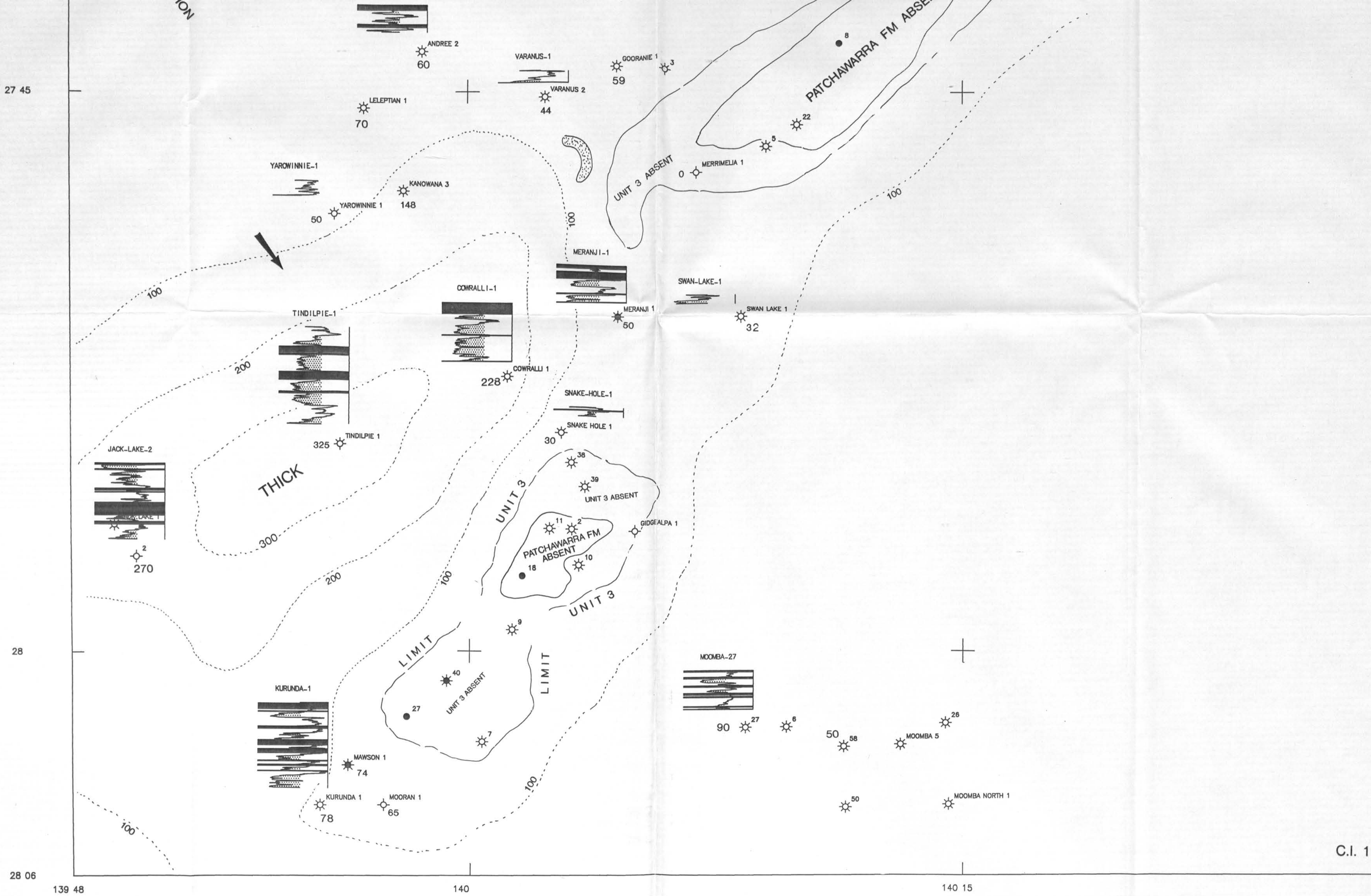
PATCHAWARRA FM ABSENT

GOORANIE 1

3

59

N


ANDREE 2
60
VARANUS-1
VARANUS 2
44
GOORANIE 1
59
LELEPTIAN 1
70
PATCHAWARRA FM ABSE
22
5
UNIT 3 ABSENT
MERRIMELIA 1
0
YAROWINNIE-1
KANOWANA 3
148
YAROWINNIE 1
50
100
MERANJI-1
MERANJI 1
50
SWAN-LAKE-1
SWAN LAKE 1
32
COWRALLI-1
COWRALLI 1
228
TINDILPIE-1
TINDILPIE 1
325
200
SNAKE-HOLE-1
SNAKE HOLE 1
30
JACK-LAKE-2
JACK LAKE 1
2
270
THICK
300
UNIT 3
38
39
UNIT 3 ABSENT
11
2
PATCHAWARRA FM
ABSENT
18
10
GIDGEALPA 1
UNIT 3
9
LIMIT
LIMIT
40
UNIT 3 ABSENT
27
7
KURUNDA-1
MAWSON 1
74
KURUNDA 1
78
MOORAN 1
65
MOOMBA-27
90
27
6
50
58
MOOMBA 5
26
50
MOOMBA NORTH 1
28
28 06
139 48
140
140 15
C.I. 1

PATCHAWARRA FM ABSE

GOORANIE 1
59
3
8
22
5
UNIT 3 ABSENT
0
MERRIMELIA 1
100
SWAN-LAKE-1
MERANJI 1
50
SWAN LAKE 1
32
ABSENT
GIDGEALPA 1
MOOMBA-27
90
27
6
50
58
MOOMBA 5
26
50
MOOMBA NORTH 1

GMI REGION

PATCHAWARRA FM

UNIT 3 PP 2.2.2

FACIES AND ISOPACH MAP

KILOMETRES 2 0 2 4 6 8 10 KILOMETRES

C.I. 100'

SUKRU N. APAK
© NCPGG

27 45
28
28 06
140 15
140 30
140 45

ENCLOSURE 2.3c

090PH
A639
MAPS
c.2

UNIVERSITY OF ADELAIDE LIBRARY

139 48

140

140 15

27 20

27 30

27 45

LAMDINA-1

LAMDINA 1

111

MOOLION-1

MOOLION 1

53

MITCHIE-1

MITCHIE 1

22

LAKE-MACMILLAN-1

LAKE MACMILLAN 1

61

DELIN 1

40

COONATIE 3

56

100

TOONMAN 1

50

MOORARI-2

MOORARI 2

117

BALCAMINGA-1

BIMBAYA 2

152

BALCAMINGA 1

156

OVER-BANK/ FLOOD-PLAIN DEPOSITS

MINGANA-1

MINGANA 1

170

BROLGA 1

120

TIRRAWARRA_NORTH-1

TIRRAWARRA NORTH 1

131

PIRRAMINTA 1

ABSENT

PATCHAWARRA FM

MUDRANGIE 1

100

200

FLY-LAKE-3

FLY LAKE 1

80

250

3

248

TIRRAWARRA-41

41

142

TIRRAWARRA-62

23

14

62

124

DEPARANIE 1

UNIT 2 ABSENT

TIRRAWARRA 5

115

ANDREE-2

ANDREE 2

252

VARANUS-1

VARANUS 2

GOORANIE 1

3

170

CHANNEL BELT

YAROWINNIE-1

8

PATCHAWARRA FM ABSENT

100

200

140 15

140 30

140 45

27 20

27 30

27 45

LAMDINA-1

LAMDINA 1

111

MOOLION-1

MOOLION 1

53

100

MITCHIE-1

MITCHIE 1

22

LAKE-MACMILLAN-1

LAKE MACMILLAN 1

61

DELIN 1

40

56 COONATIE 3

TOONMAN 1

50

MOORARI-2

MOORARI 2

117

100

BALCAMINGA-1

BIMBAYA 2

152

BALCAMINGA 1

156

4

BOOKABOURDIE-7

BOOKABOURDIE 1

UNIT 2 ABSENT

PATCHAWARRA FM ABSENT

OVER-BANK/ FLOOD-PLAIN DEPOSITS

TIRRAWARRA-NORTH-1

TIRRAWARRA NORTH 1

131

TIRRAWARRA-62

23

62

124

14

41

142

TIRRAWARRA 5

115

MUDRANGIE 1

PIRRAMINTA 1

PATCHAWARRA FM

ABSENT

DEPARANIE 1

UNIT 2 ABSENT

8

PATCHAWARRA FM ABSENT

100

200

GOORANIE 1

3

170

100

27 45

28

28 06

139 48

140

140 15

CHANNEL BELT

MEANDERING

ACTIVE

YAROWINNIE-1

LELEPTIAN 1
342

YAROWINNIE 1
348

KANOWANA 3
282

ANDREE 2
252

VARANUS-1

VARANUS 2
269

GOORANIE 1
170

115

PATCHAWARRA FM ABSENT

MERRIMELIA 1
59

UNIT 2 ABSENT

UNIT 2 ABSENT

SWAN-LAKE-1

SWAN LAKE 1
241

MERANJI-1

MERANJI 1

COWRALLI-1

COWRALLI 1
165

SNAKE-HOLE-1

SNAKE HOLE 1
178

TINDILPIE-1

TINDILPIE 1
315

JACK-LAKE-2

JACK LAKE 1

2
336

GIDGEALPA-1

GIDGEALPA 1
220

PATCHAWARRA FM ABSENT

GIDGEALPA-9

9
140

GIDGEALPA-27

112

GIDGEALPA-7

70

70

KURUNDA-1

MAWSON 1
174

KURUNDA 1
200

MOORAN 1
163

MOOMBA-27

190

MOOMBA-26

MOOMBA 5

MOOMBA NORTH 1

100

200

300

115

GOORANIE 1
170

100

PATCHAWARRA FM ABSENT

8

100

200

22

5

MERRIMELIA 1
59

UNIT 2 ABSENT

UNIT 2 ABSENT

SWAN_LAKE_1

200

MERANJI 1

SWAN LAKE 1
241

GIDGEALPA_1

GIDGEALPA 1
220

MOOMBA_27

MOOMBA_26

190

27

6

26

58

MOOMBA 5

50

MOOMBA NORTH 1

GMI REGION

PATCHAWARRA FM

UNIT 2 PP 2.2.3

FACIES AND ISOPACH MAP

KILOMETRES 2 0 2 4 6 8 10 KILOMETRES

C.I. 50'

SUKRU N. APAK
© NCPGG

27 45

28

28 06

140 15

140 30

140 45

ENCLOSURE 2.3d

090PH
A634
MAPS
c.2

UNIVERSITY OF ADELAIDE LIBRARY

139 48

140

140 15

27 20

27 30

27 45

LAMDINA-1

LAMDINA 1

28

MOOLION-1

MOOLION 1

62

MITCHIE-1

MITCHIE 1

44

LAKE-MACMILLAN-1

LAKE MACMILLAN 1

42

DELIN 1

86

COONATIE 3

55

TOONMAN 1

55

MOORARI-2

MOORARI 2

80

BALCAMINGA-1

BALCAMINGA 1

148

BIMBAYA 2

170

100

150

MINGANA-1

MINGANA 1

142

BROLGA 1

141

STREAM DIRECTION

TIRRAWARRA-NORTH-1

TIRRAWARRA NORTH 1

156

TIRRAWARRA-62

180

PIRRAMINTA 1

MUDRANGIE 1

PATCHAWARRA FM

ABSENT

FLY-LAKE-3

FLY LAKE 1

167

115

3

TIRRAWARRA-41

41

225

23

14

62

DEPARANIE 1

UNIT 1 ABSENT

TIRRAWARRA 5

207

200

ANDREE-2

ANDREE 2

193

VARANUS-1

VARANUS 2

GOORANIE 1

230

3

8

PATCHAWARRA FM ABSENT

140 15

140 30

140 45

27 20

27 30

LAMDINA-1

LAMDINA 1

28

MOOLION-1

MOOLION 1

62

MITCHIE-1

MITCHIE 1

44

LAKE-MACMILLAN-1

LAKE MACMILLAN 1

42

DELIN 1

86

COONATIE 3

55

TOONMAN 1

55

MOORARI-2

MOORARI 2

80

100

BALCAMINGA-1

BALCAMINGA 1

148

BIMBAYA 2

170

150

BOOKABOURDIE 1

PATCHAWARRA FM ABSENT

TIRRAWARRA-NORTH-1

TIRRAWARRA NORTH 1

156

TIRRAWARRA-62

180

WARRA-41

225

23

14

62

41

TIRRAWARRA 5

207

150

100

PIRRAMINTA 1

ABSENT

MUDRANGIE 1

PATCHAWARRA FM

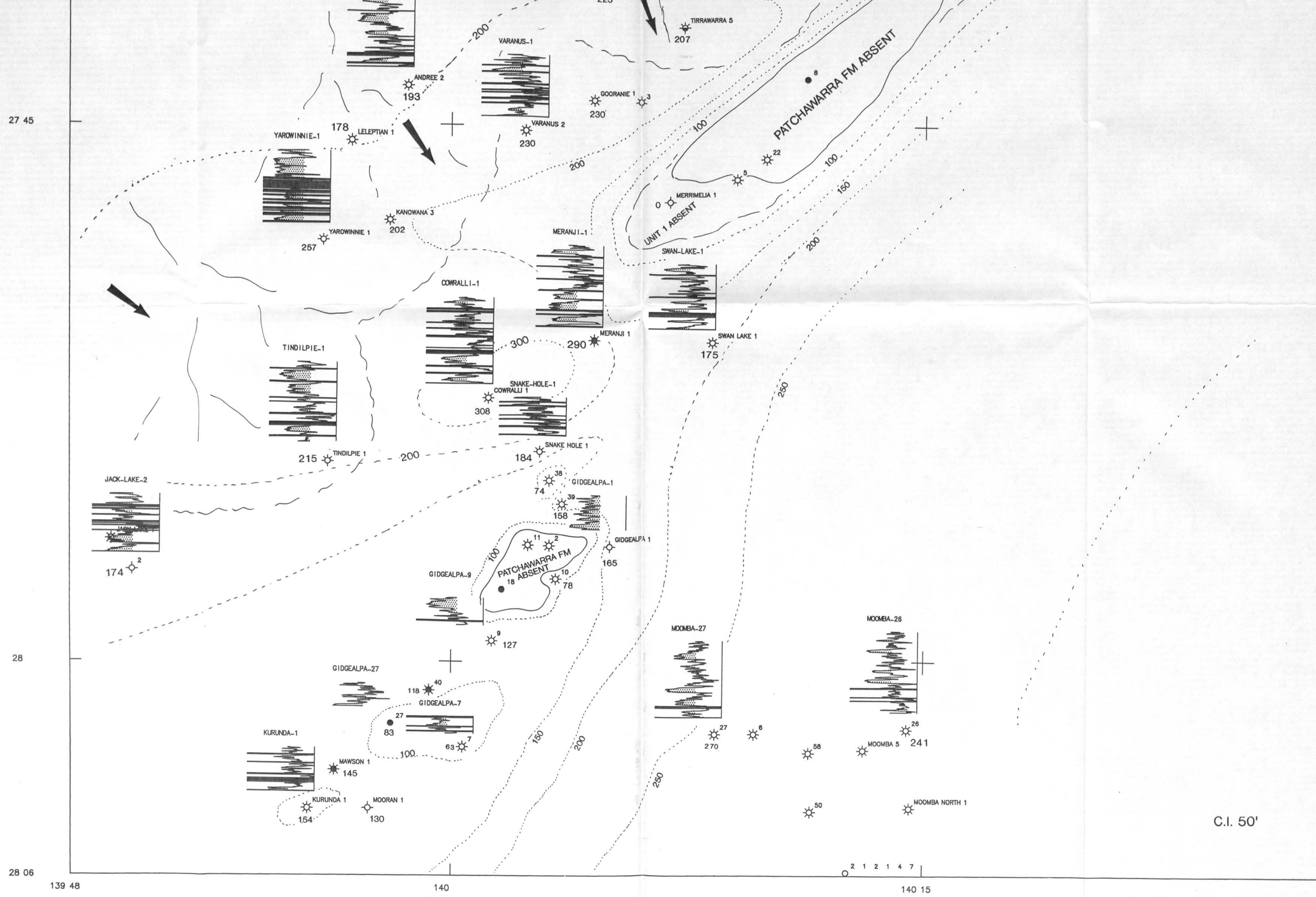
100

DEPARANIE 1

UNIT 1 ABSENT

8

RA FM ABSENT


TIRRAWARRA 5
207
VARANUS-1
ANDREE 2
193
GOORANIE 1
230
VARANUS 2
230
YAROWINNIE-1
178
LELEPTIAN 1
PATCHAWARRA FM ABSENT
22
5
MERRIMELIA 1
0
UNIT 1 ABSENT
KANOWANA 3
202
YAROWINNIE 1
257
MERANJI-1
SWAN-LAKE-1
COWRALLI-1
MERANJI 1
290
SWAN LAKE 1
175
TINDILPIE-1
300
SNAKE-HOLE-1
COWRALLI 1
308
TINDILPIE 1
215
SNAKE HOLE 1
184
JACK-LAKE-2
GIDGEALPA-1
74
158
GIDGEALPA 1
165
PATCHAWARRA FM ABSENT
GIDGEALPA-9
18
78
127
174
MOOMBA-27
MOOMBA-26
GIDGEALPA-27
118
GIDGEALPA-7
83
KURUNDA-1
MAWSON 1
145
63
KURUNDA 1
154
MOORAN 1
130
270
MOOMBA 5
241
MOOMBA NORTH 1
100
150
200
250
C.I. 50'
27 45
28
28 06
139 48
140
140 15

225

TIRRAWARRA 5
207

GOORANIE 1
230

3

8

PATCHAWARRA FM ABSENT

100

22

5

100

150

MERRIMELIA 1
0

UNIT 1 ABSENT

200

SWAN_LAKE_1

MERANJI 1

SWAN LAKE 1
175

250

EALPA_1

GIDGEALPA 1
165

MOOMBA_27

MOOMBA_26

27
270

6

58

26

MOOMBA 5
241

250

50

MOOMBA NORTH 1

2 1 2 1 4 7

140 15

27 45

28

GMI REGION

PATCHAWARRA FM

UNIT 1 PP 3.1 - 3.2

FACIES AND ISOPACH MAP

C.I. 50'

KILOMETRES 2 0 2 4 6 8 10 KILOMETRES

SUKRU N. APAK
© NCPGG

140 30

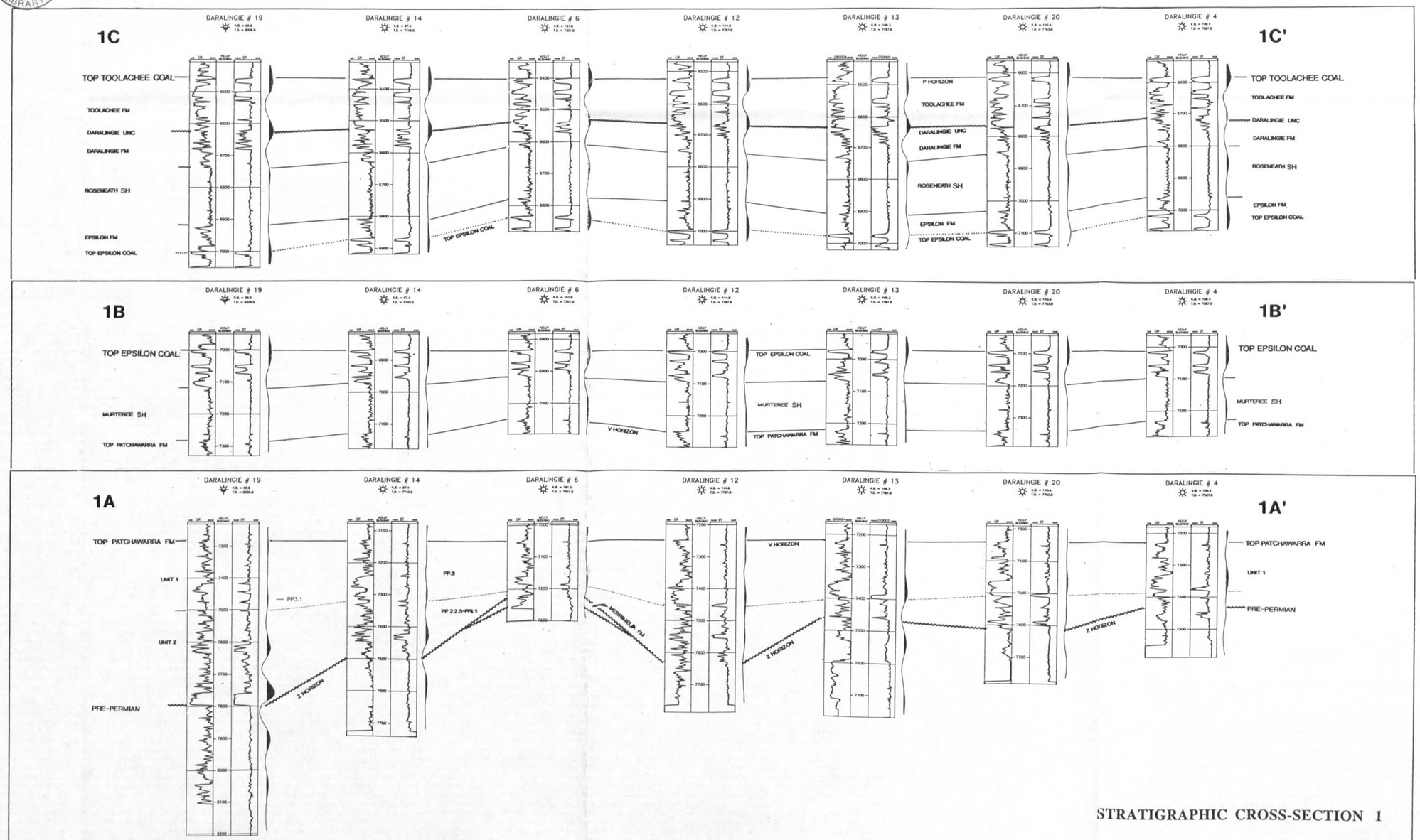
140 45

28 06

ENCLOSURE 2.3e

090PH
A639
MAPS
c.2

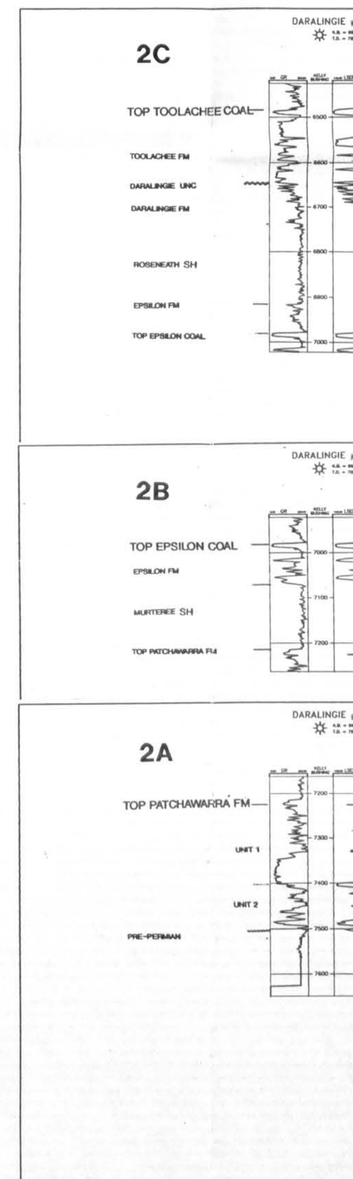
UNIVERSITY OF ADELAIDE LIBRARY

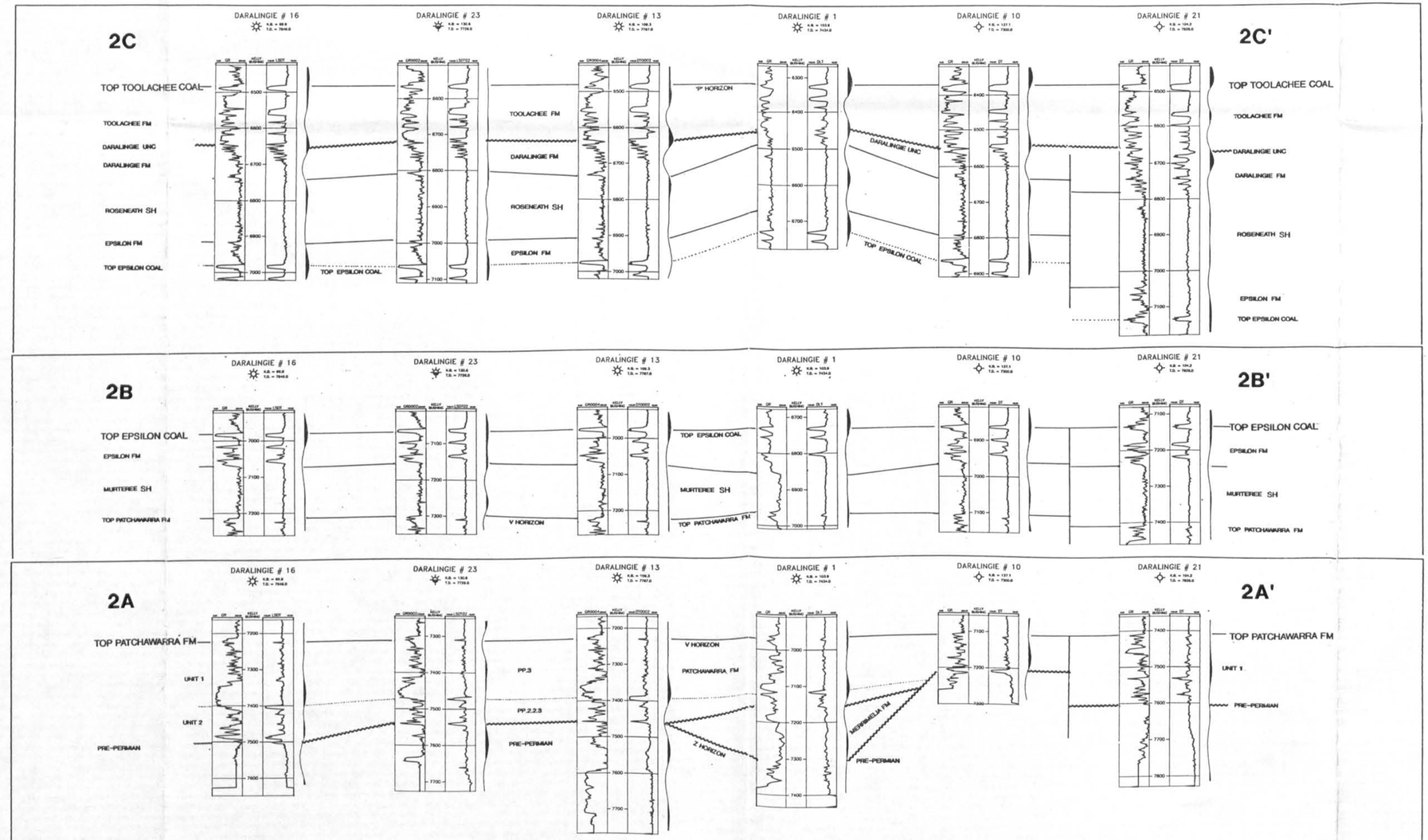


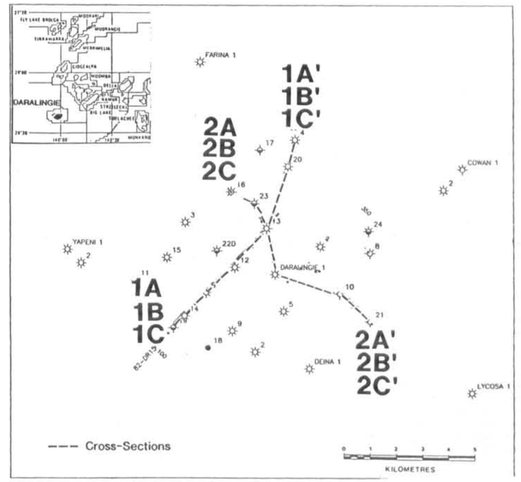
STRATIGRAPHIC CROSS-SECTION 1

H.S : Diagramatic

(Daralingie-19 to Daralingie-4)







DARALINGIE FIELD

STRATIGRAPHIC CROSS–SECTIONS MONTAGE

STRATIGRAPHIC CROSS-SECTION 2

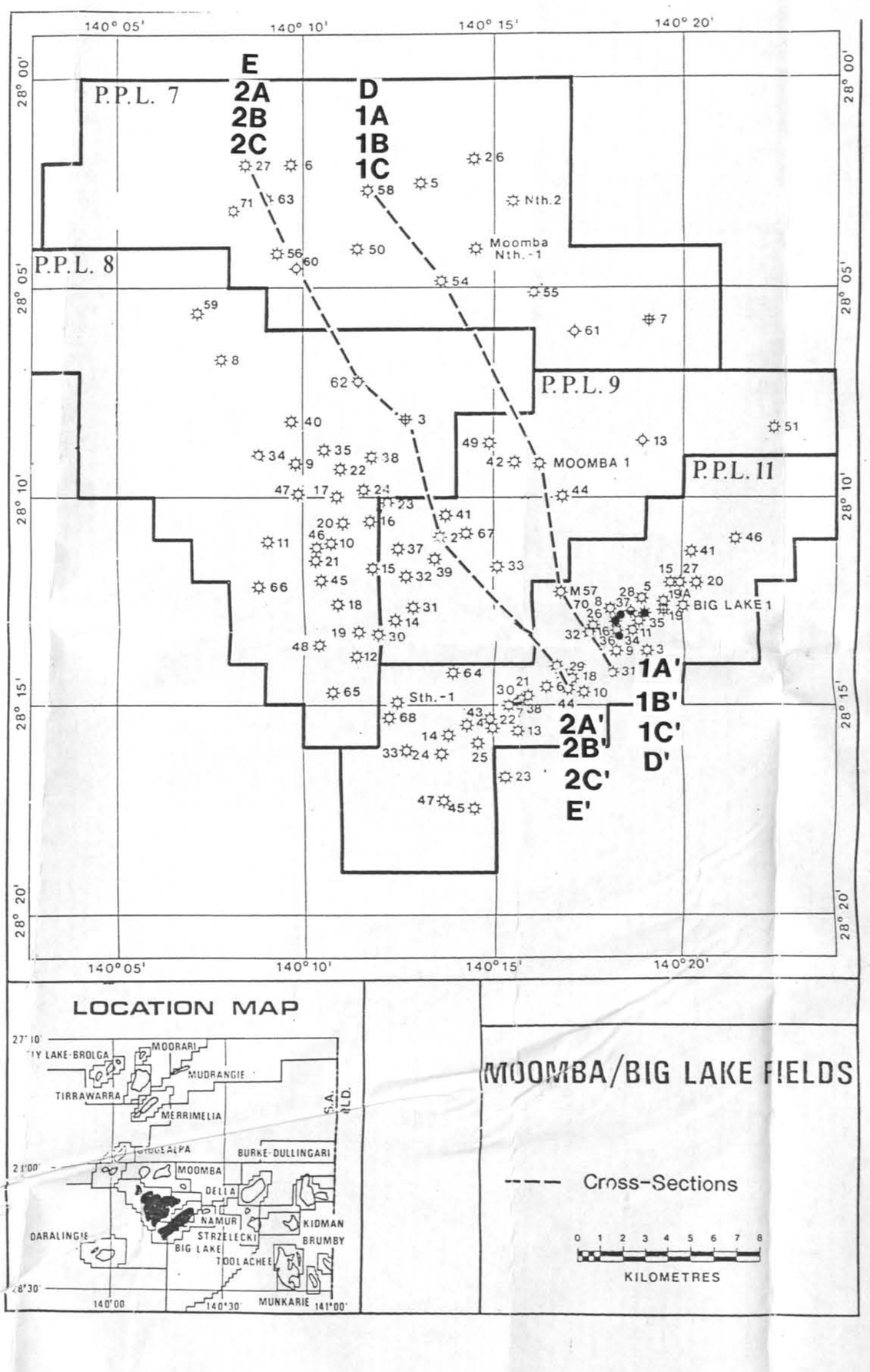
H.S Diagramatic

(Daralingie-16 to Daralingie-21)

ENCLOSURE 2.4

Q40PH
A639
MAPS
c.2

...Y OF ADELAIDE
...BRARY



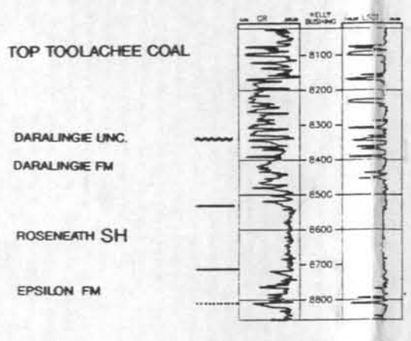
MOOMBA/BIG LAKE FIELDS

---- Cross-Sections

0 1 2 3 4 5 6 7 8
KILOMETRES

MOOMBA # 58

1C



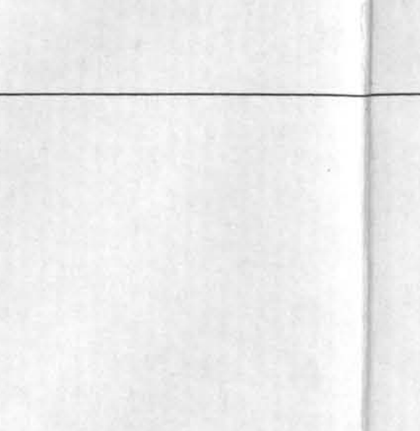
MOOMBA # 58

1B

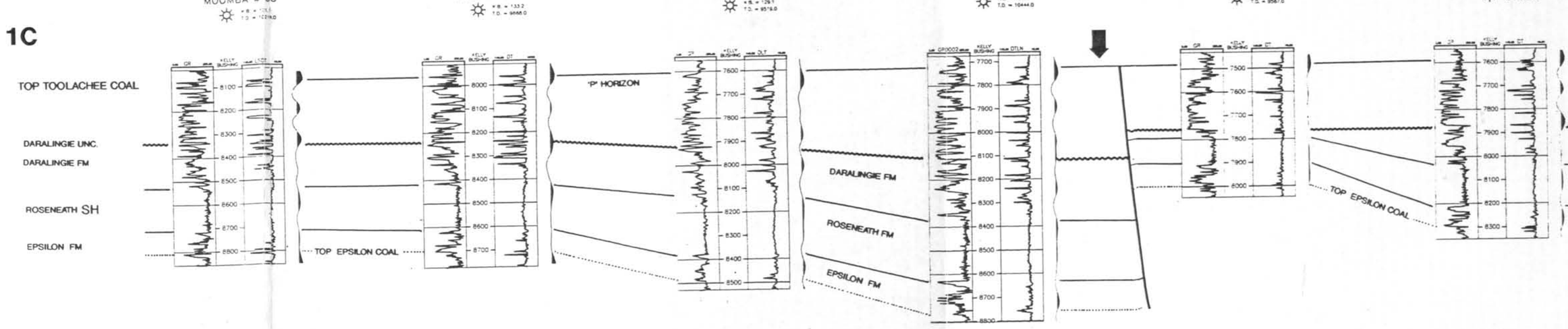


MOOMBA # 58

1A



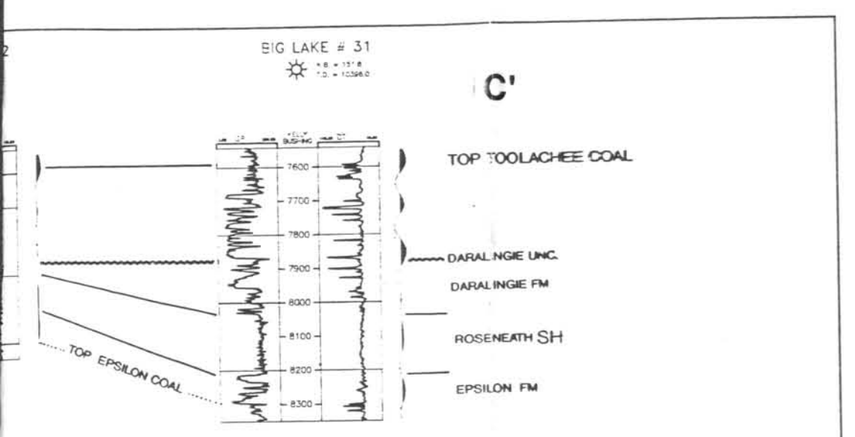
H.S

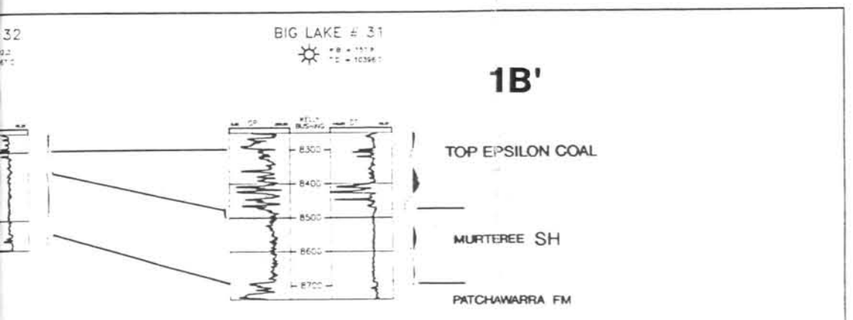


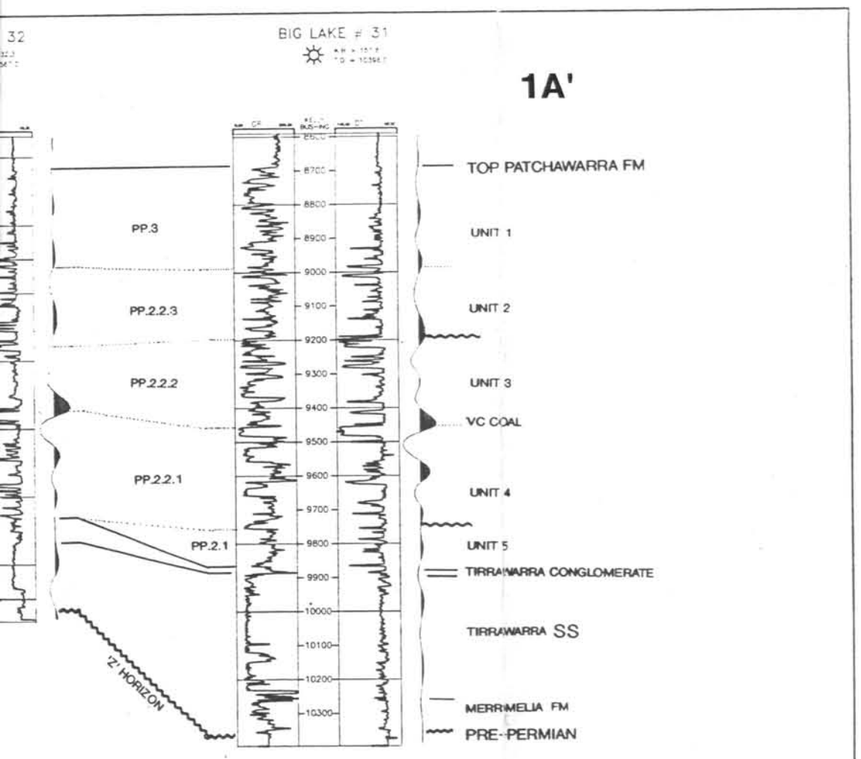
STRATIGRAPHIC CROSS-SECTION 1

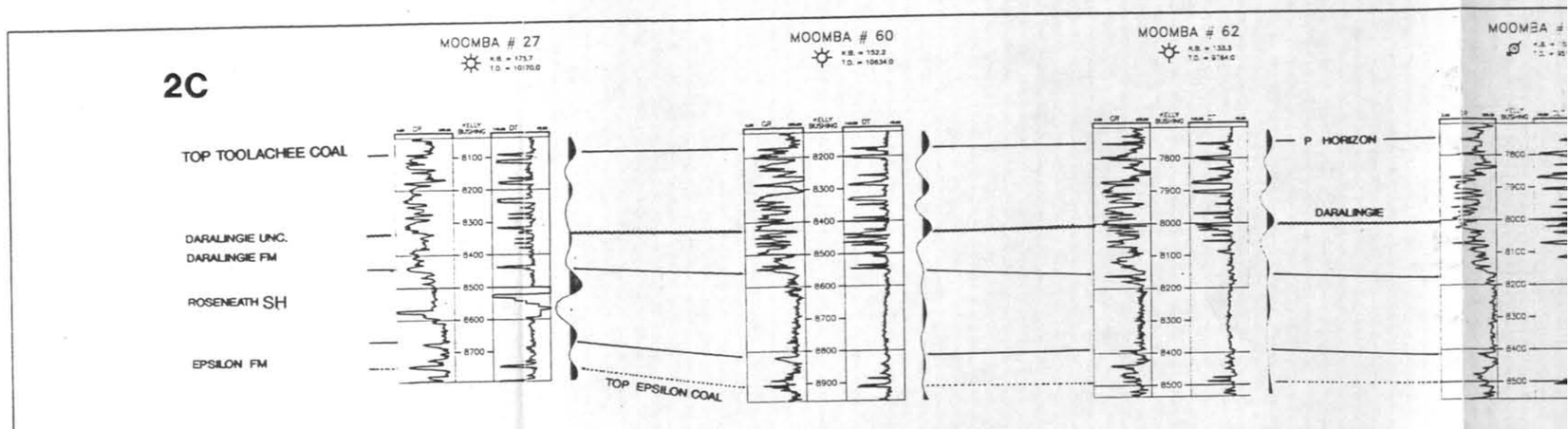
H.S : Diagramatic

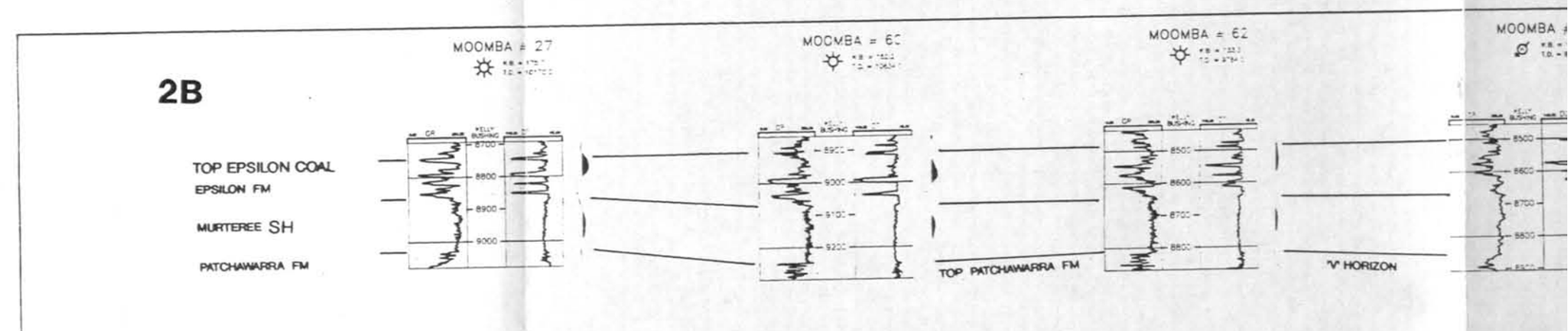
(MOOMBA-58 to BIG LAKE-31)

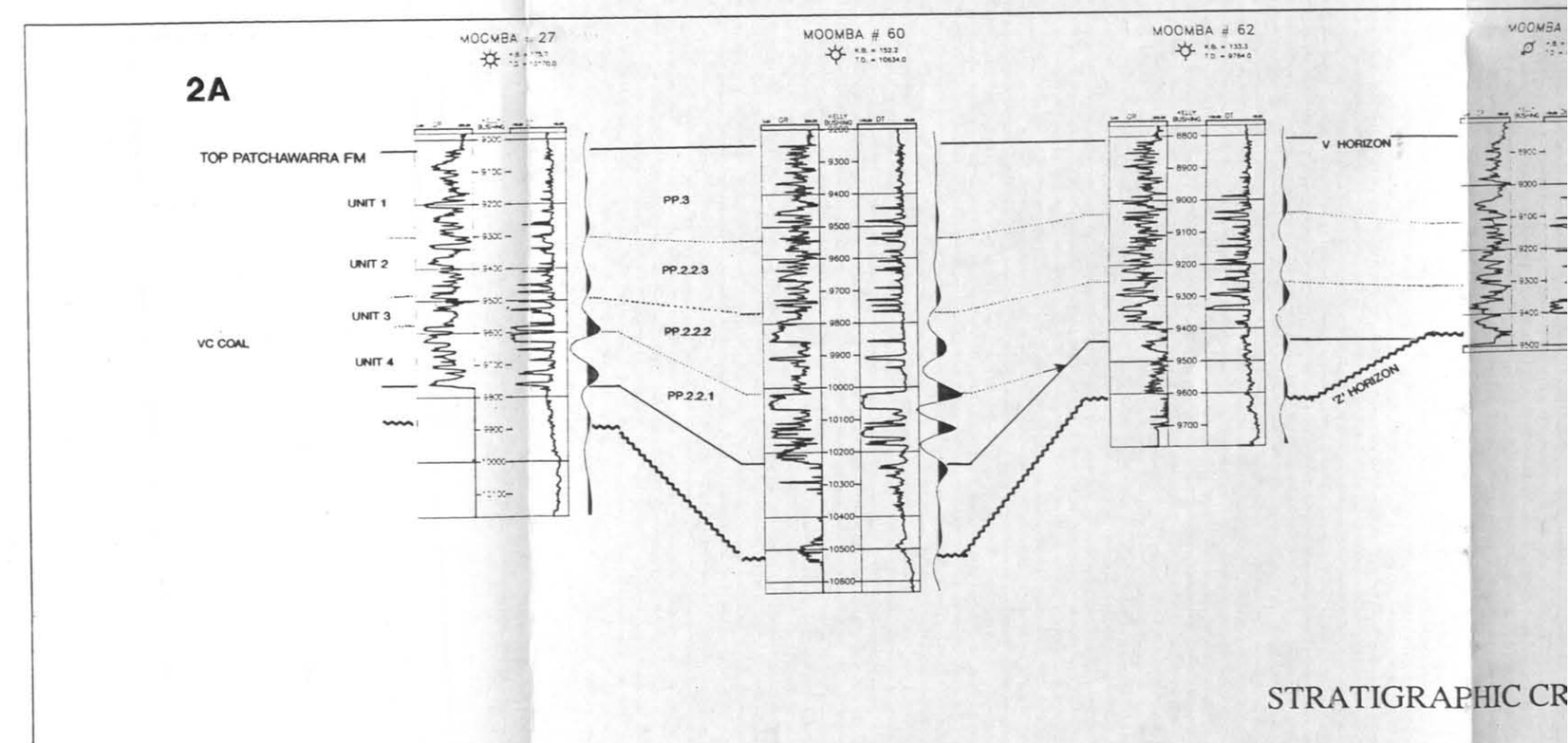








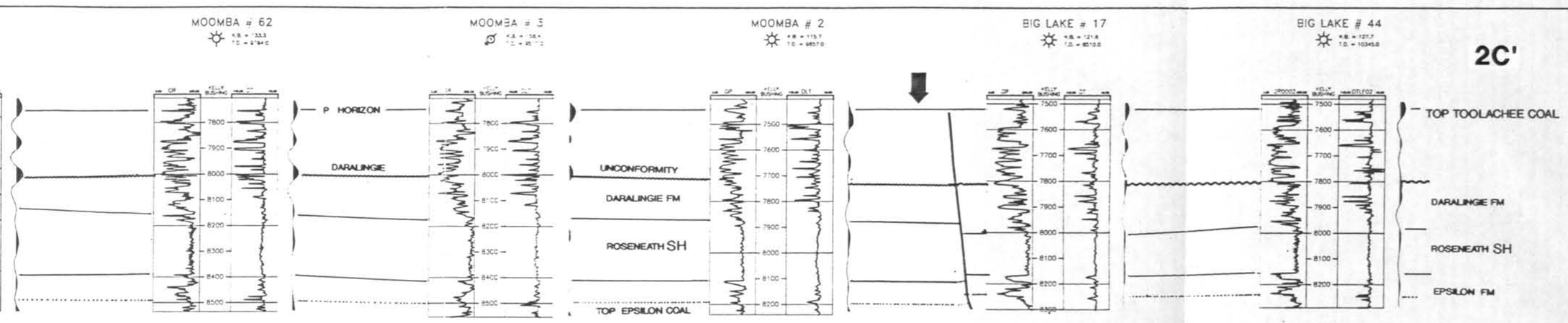


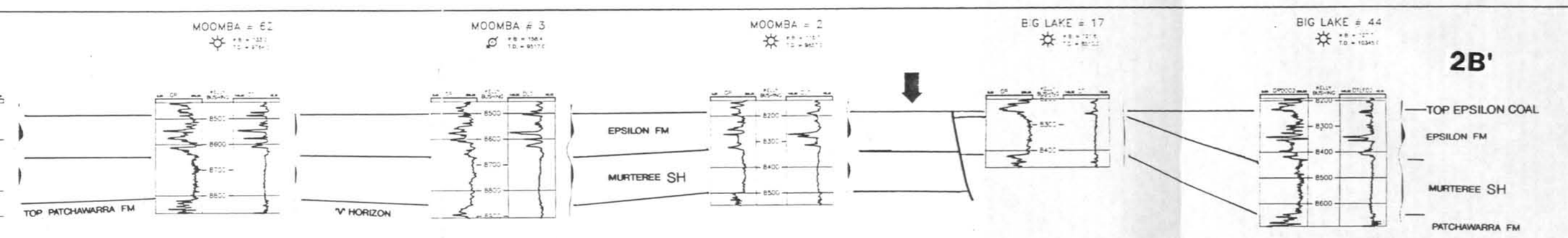


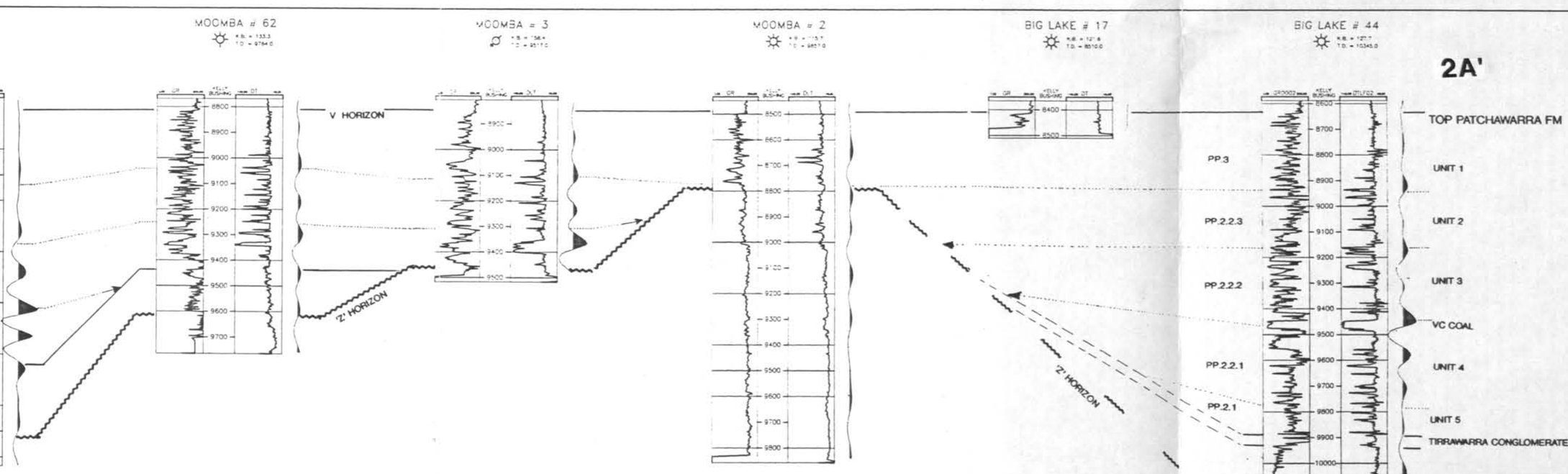
STRATIGRAPHIC CR

H.S : Diagramatic

(MOOMBA-27 to BIG







STRATIGRAPHIC CROSS_SECTION 2

S : Diagramatic

(MOOMBA-27 to BIG LAKE-44)

2C'

TOP TOOLACHEE COAL

DARALINGIE FM

ROSENEATH SH

EPSILON FM

2B'

TOP EPSILON COAL

EPSILON FM

MURTEREE SH

PATCHAWARRA FM

2A'

TOP PATCHAWARRA FM

UNIT 1

UNIT 2

UNIT 3

VC COAL

UNIT 4

UNIT 5

TIRRAWARRA CONGLOMERATE

PRE-PERMIAN

D

MOOMBA # 58

MOOMBA # 54

CADNA-OWIE FM

NAPPAMERRI GR

TOOLACHEE FM

DARALINGIE FM

ROSENEATH SH

EPSILON FM

MURTEREE SH

PATCHAWARRA FM

TIRRAWARRA SS

GRANITE

E

MOOMBA = 27

MOOMBA # 56

MOOMBA = 60

CADNA-OWIE FM

NAPPAMERRI GR

TOOLACHEE FM

DARALINGIE FM

ROSENEATH SH

EPSILON FM

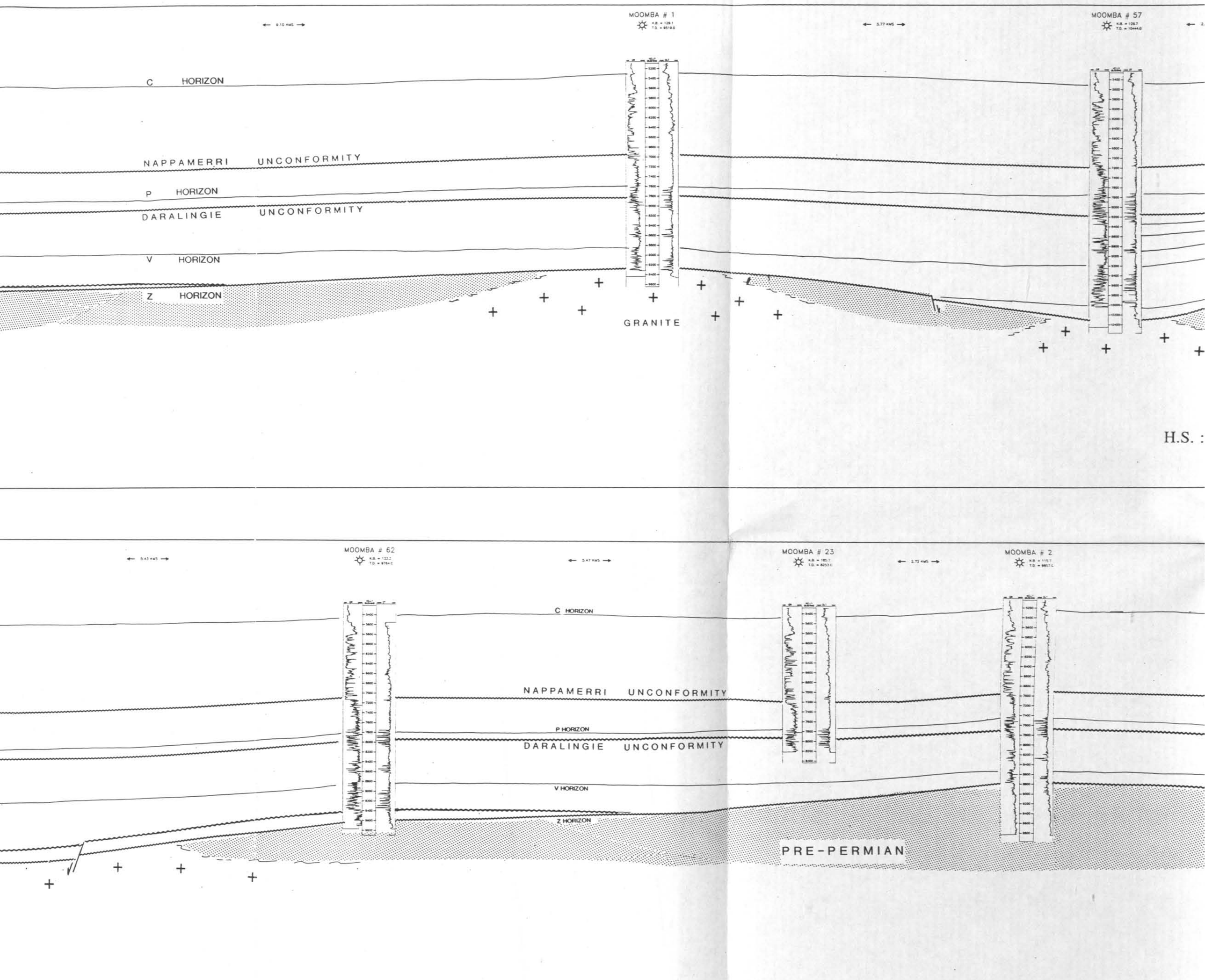
MURTEREE SH

PATCHAWARRA FM

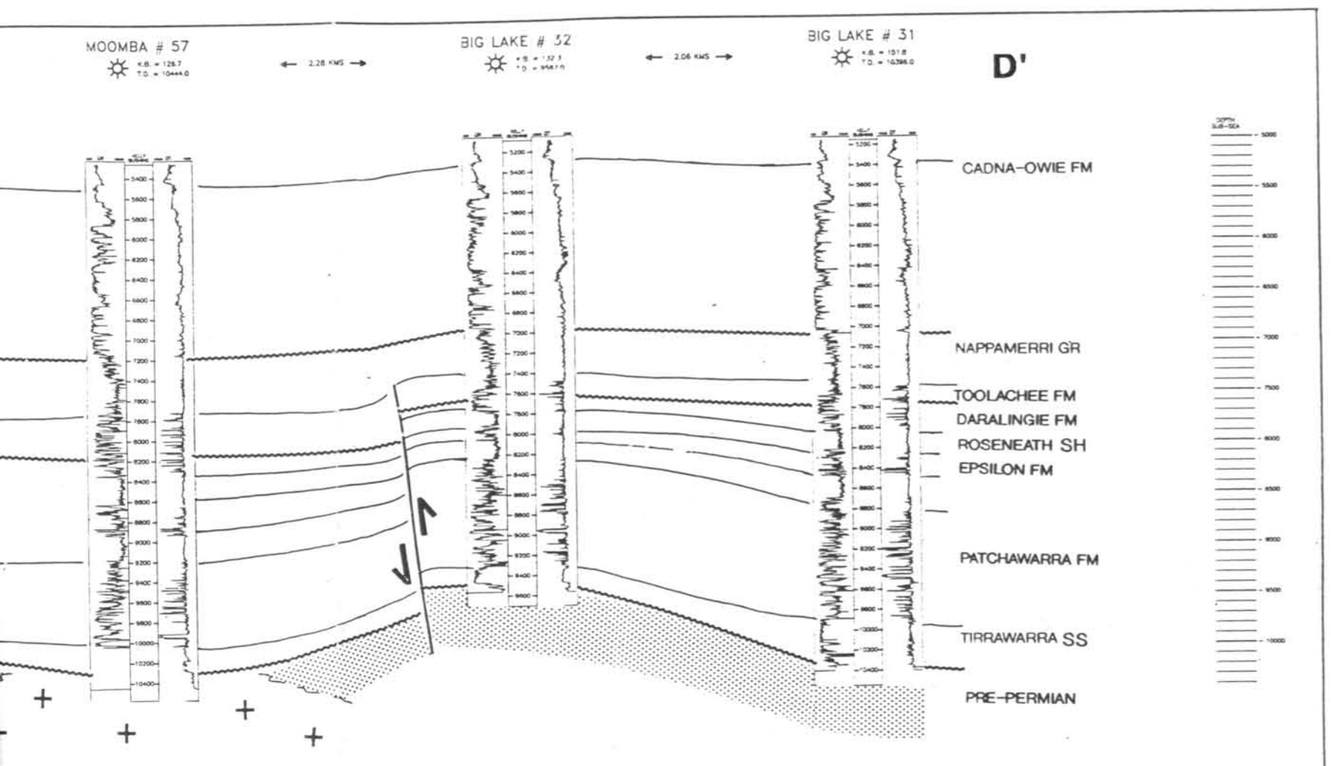
TIRRAWARRA SS

PRE-PERMIAN

GRANITE


← 9.10 KMS →
MOOMBA # 1
K.B. = 129.1
T.D. = 9518.0
← 5.77 KMS →
MOOMBA # 57
K.B. = 126.7
T.D. = 10444.0
C HORIZON
NAPPAMERRI UNCONFORMITY
P HORIZON
DARALINGIE UNCONFORMITY
V HORIZON
Z HORIZON
GRANITE
← 5.43 KMS →
MOOMBA # 62
K.B. = 133.2
T.D. = 9764.0
← 5.47 KMS →
MOOMBA # 23
K.B. = 185.7
T.D. = 8253.0
← 2.72 KMS →
MOOMBA # 2
K.B. = 115.7
T.D. = 9857.0
C HORIZON
NAPPAMERRI UNCONFORMITY
P HORIZON
DARALINGIE UNCONFORMITY
V HORIZON
Z HORIZON
PRE-PERMIAN

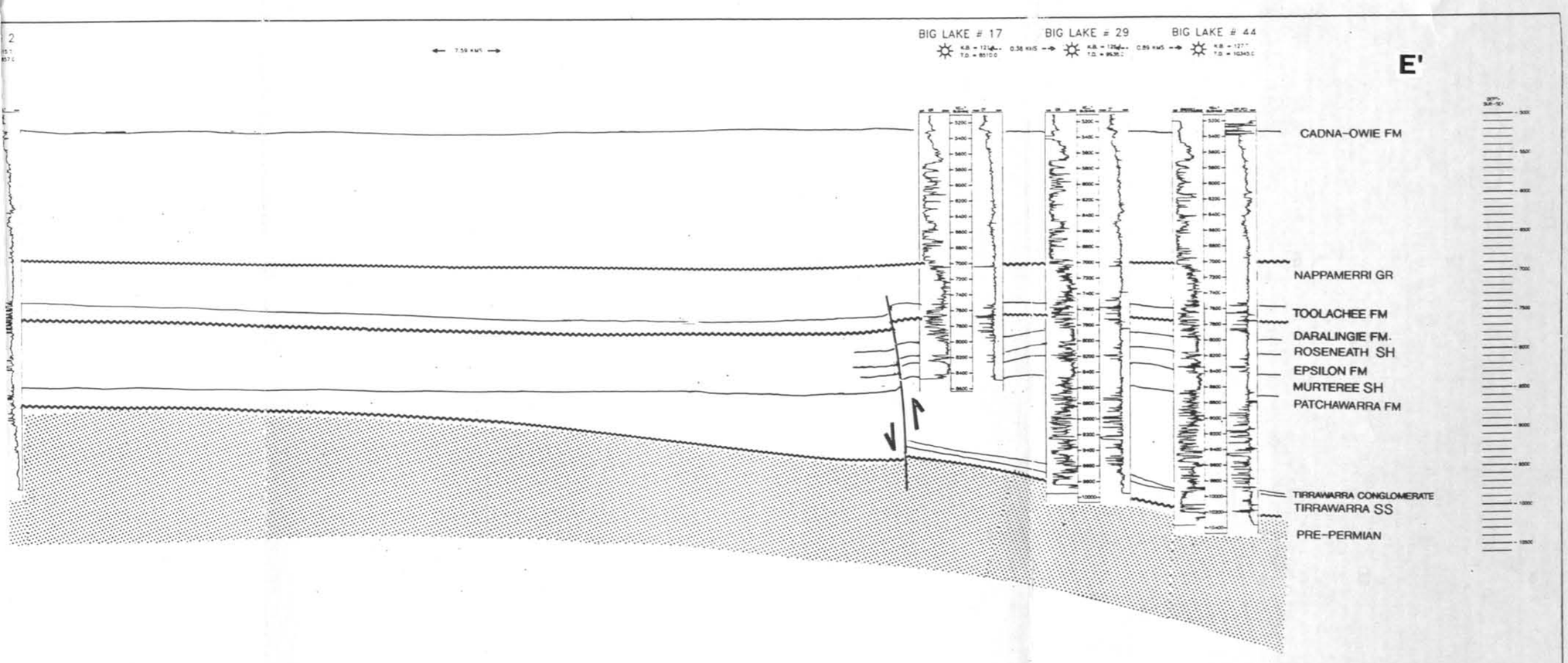
H.S. :



STRUCTURAL CROSS-SECTION 1

H.S. : Diagramatic

(MOOMBA-58 to BIG LAKE-31)



STRUCTURAL CROSS-SECTION 2

H.S. : Diagramatic

(MOOMBA-27 to BIG LAKE-44)

MOOMBA–BIG LAK
FIELDS

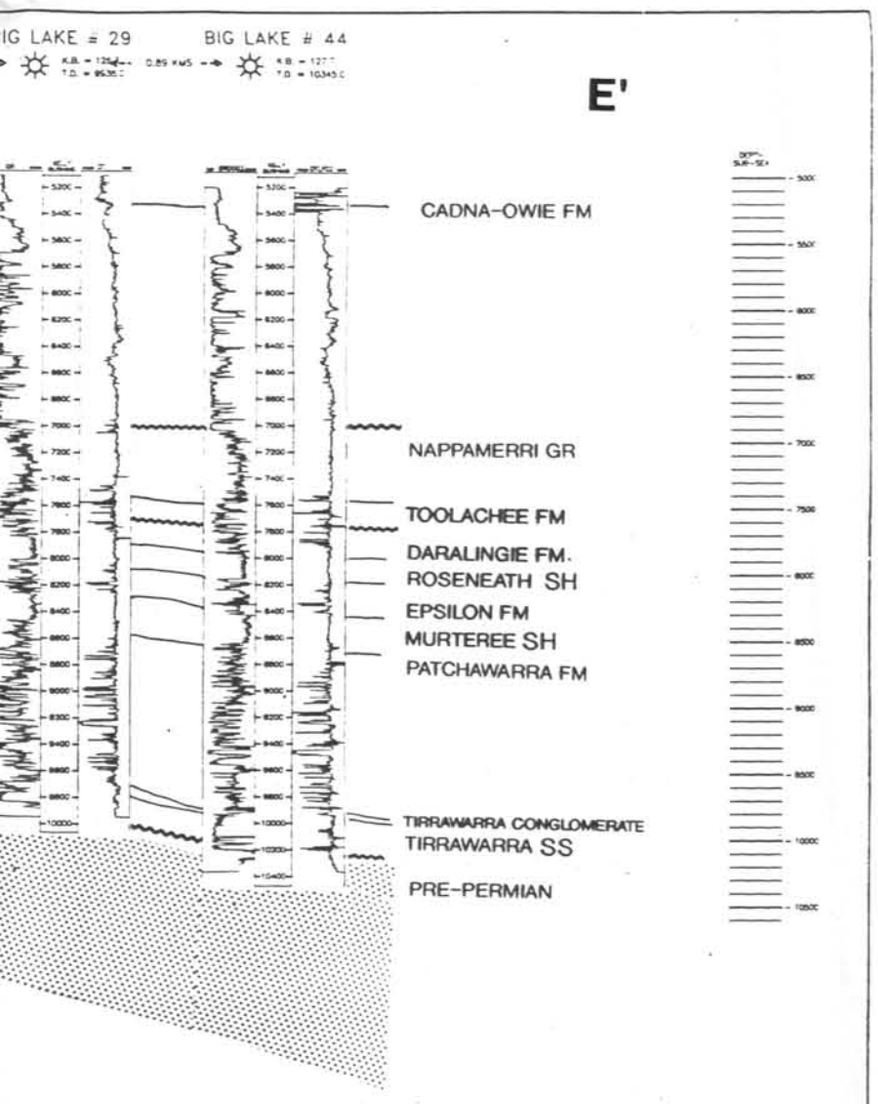
STRATIGRAPHIC & STRU
CROSS–SECTION

MONTAGE

MOOMBA–BIG LAKE FIELDS

STRATIGRAPHIC & STRUCTURAL CROSS–SECTIONS

MONTAGE



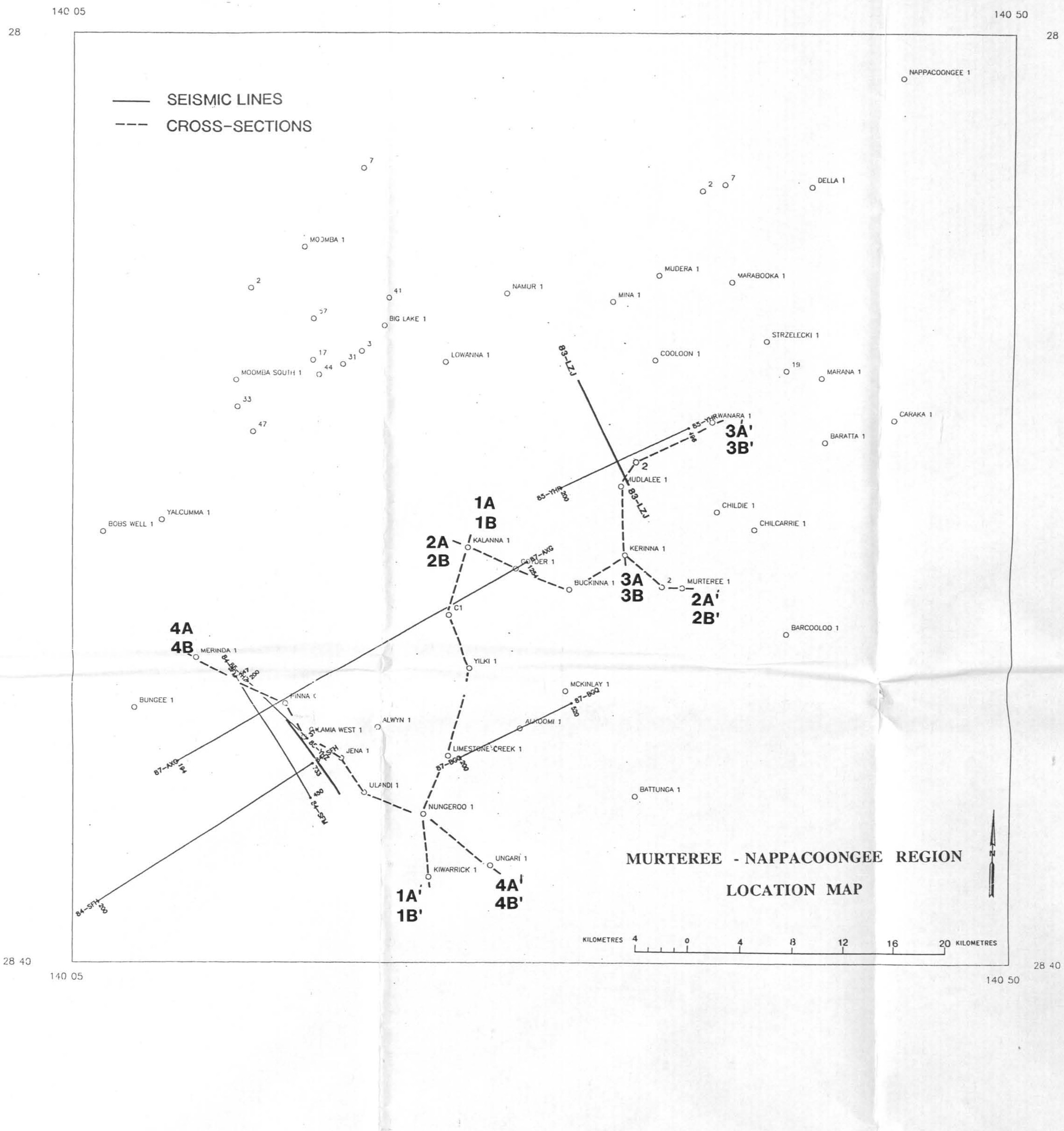
STRUCTURAL CROSS-SECTION 2

(MOOMBA-27 to BIG LAKE-44)

c

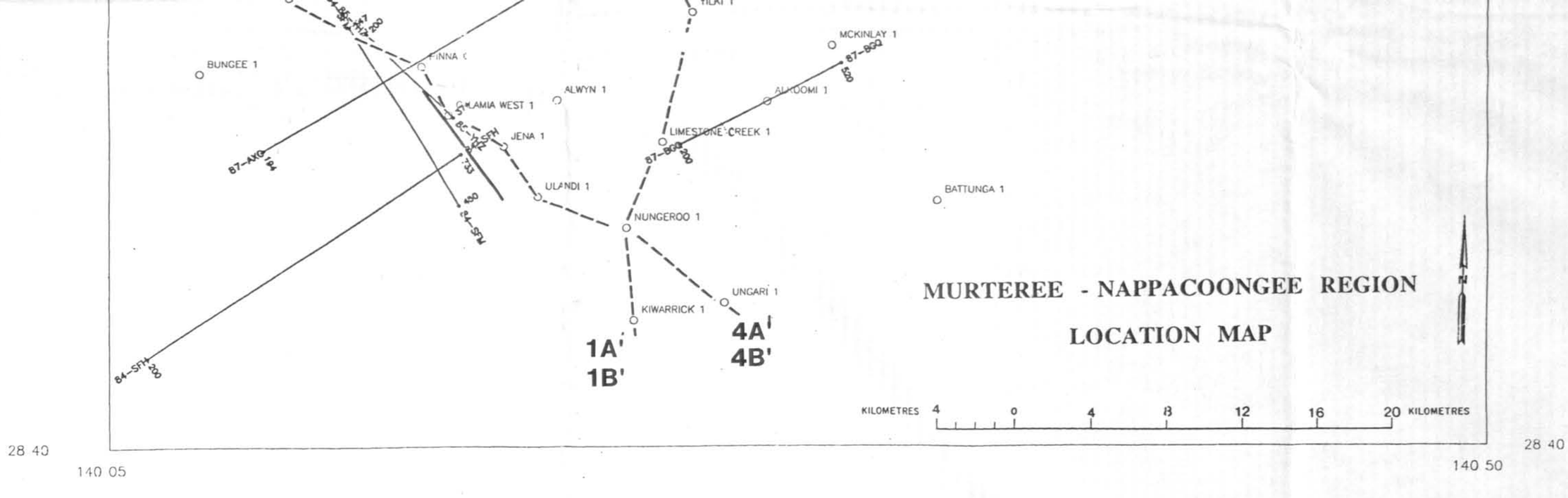
ENCLOSURE 2.5

090 PH
A639
MAPS
c.2
UNIVERSITY OF ADELAIDE LIBRARY



MURTEREE HIGH AREA

SEISMIC
&



MURTEREE HIGH AREA

SEISMIC

&

STRATIGRAPHIC CROSS-SECTIONS

MONTAGE

ENCLOSURE 2.6

140 50

28

APPACOONGEE 1

RAKA 1

EGION

20 KILOMETRES

28 40

140 50

KALANNA # 1
K.B. = 129.3
T.D. = 8943.0

MURTEREE # C1
K.B. = 117.2
T.D. = 7435.0

YILKI # 1
K.B. = 121.6
T.D. = 5310.0

LIMESTONE CREEK # 1
K.B. = 153.8
T.D. = 5177.0

NUNGERO

1B

GR KELLY BUSHING DT

TOOLACHEE FM

DARALINGIE UNC

DARALINGIE FM

ROSENEATH SH

EPSILON FM

MURTEREE SH

PATCHAWARRA FM

PRE-PERMIAN

P HORIZON

ROSENEATH SH

EPSILON FM

MURTEREE SH

PATCHAWARRA FM

Z HORIZON

DARALINGIE UNC

PATCHAWARRA FM

Z HORIZON

BASEMENT

STRATIGRA

HORIZONTA

KALANNA # 1
K.B. = 129.3
T.D. = 8943.0

MURTEREE # C1
K.B. = 117.2
T.D. = 7435.0

YILKI # 1
K.B. = 121.6
T.D. = 5310.0

LIMESTONE CREEK # 1
K.B. = 153.8
T.D. = 5177.0

NUNGERC

1A

GR KELLY BUSHING DT

PATCHAWARRA FM

UNIT 1

UNIT 2

UNIT 3

UNIT 4

MIDDLE PATCHAWARRA UNCONFORMITY

UNIT 5

PRE-PERMIAN

V HORIZON

PP3

PP 2.2.3–PP3.1

PP 2.2.2

PP2

PP 2.2.1

PP 2.1

Z HORIZON

PERMIAN

PP3.2

PP3.1

PP2

PP2

PJ4.1

Z HORIZON

BASEMENT

STRATIGRAPHIC

1A–1A

(KALANNA-1 to

HORIZONTAL SCALE

KERINNA # 1
K.B. = 178.8
T.D. = 6178.0

MUDLALEE # 1
K.B. = 180.7
T.D. = 6629.0

MUDLALEE # 2
K.B. = 202.3
T.D. = 6310.0

WANARA # 1
K.B. = 215.7
T.D. = 6668.0

3B

GR KELLY BUSHING DT

TOOLACHEE FM

PATCHAWARRA FM

PRE-PERMIAN

UNIT B

UNIT C

Z HORIZON

MERRIMELIA FM

P HORIZON

EPSILON FM

MURTEREE SH

V HORIZON

PATCHAWARRA FM

PRE-PERMIAN

Z HORIZON

3B'

TOOLACHEE FM

PATCHAWARRA FM

PRE-PERMIAN

STRATIGRAPHIC CROSS-SECTION 3

3B–3B'

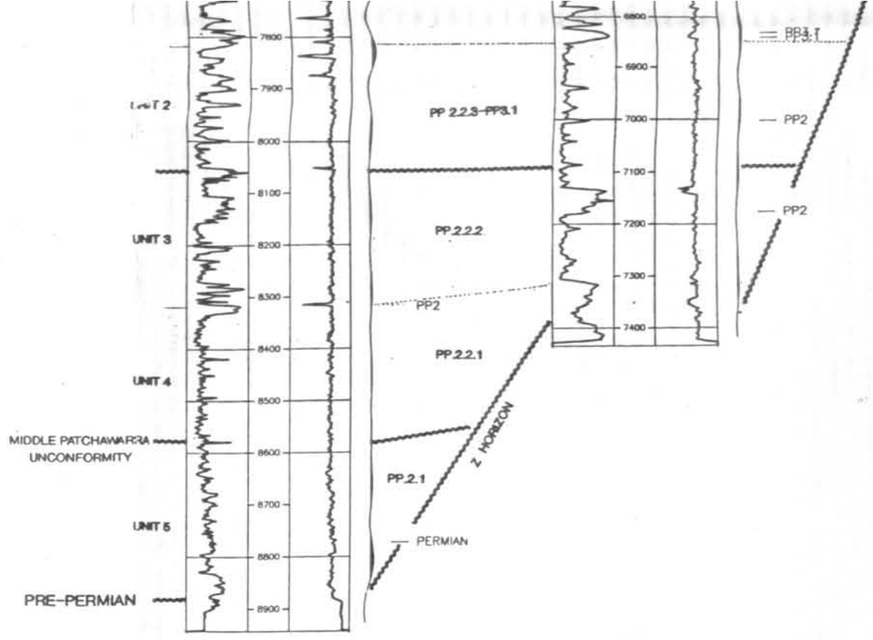
HORIZONTAL SCALE : DIAGRAMATIC

GION

20 KILOMETRES

28 40

140 50

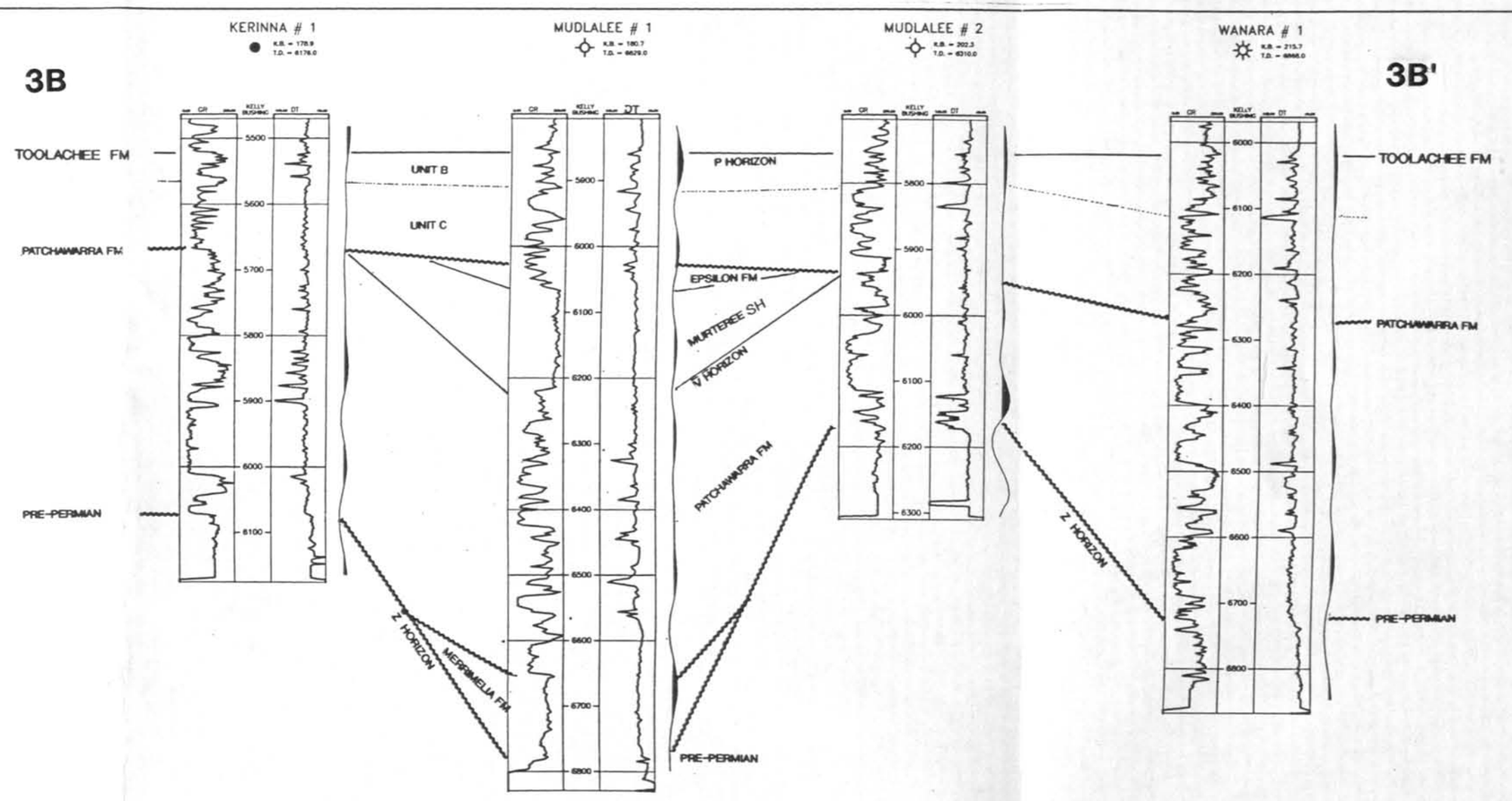


STRATIGRAPHIC C

1A–1A

(KALANNA-1 to

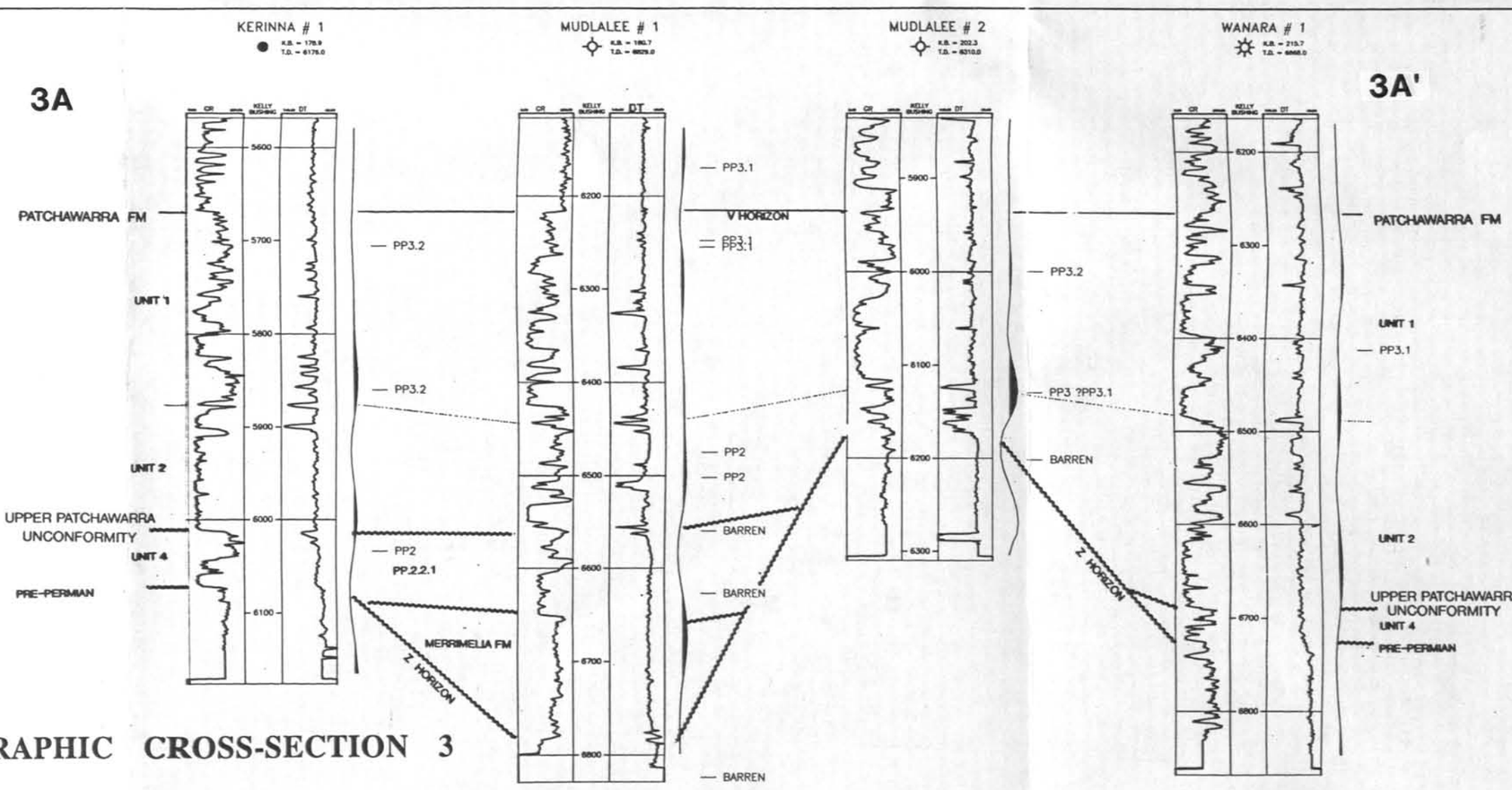
HORIZONTAL SCALE :



STRATIGRAPHIC CROSS-SECTION 3

3B–3B'

HORIZONTAL SCALE : DIAGRAMATIC

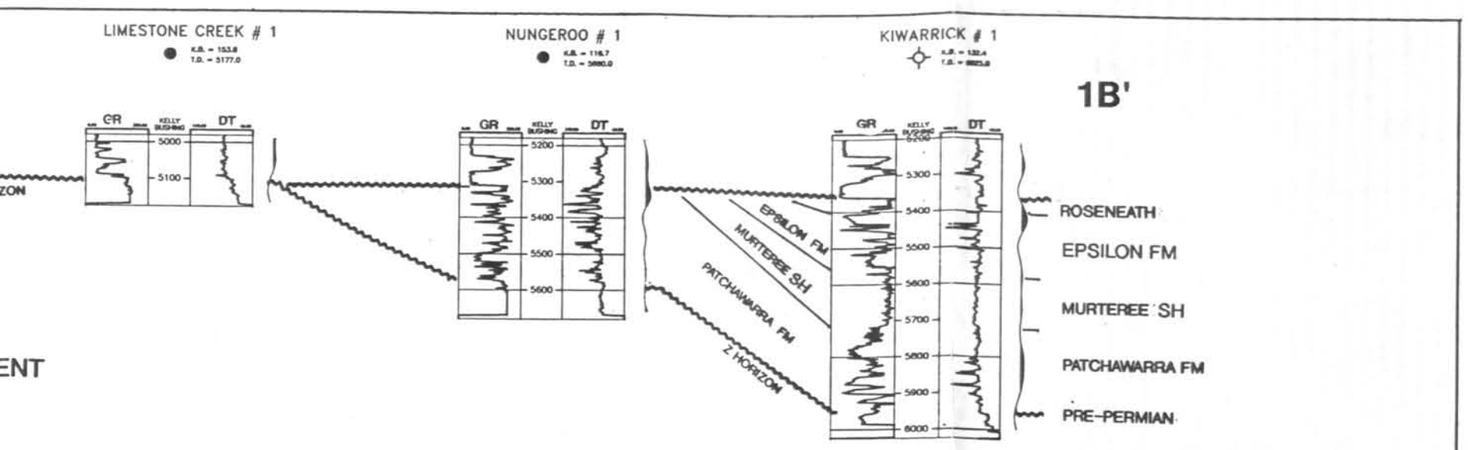


STRATIGRAPHIC CROSS-SECTION 3

3A–3A'

(KERINNA-1 to WANARA-1)

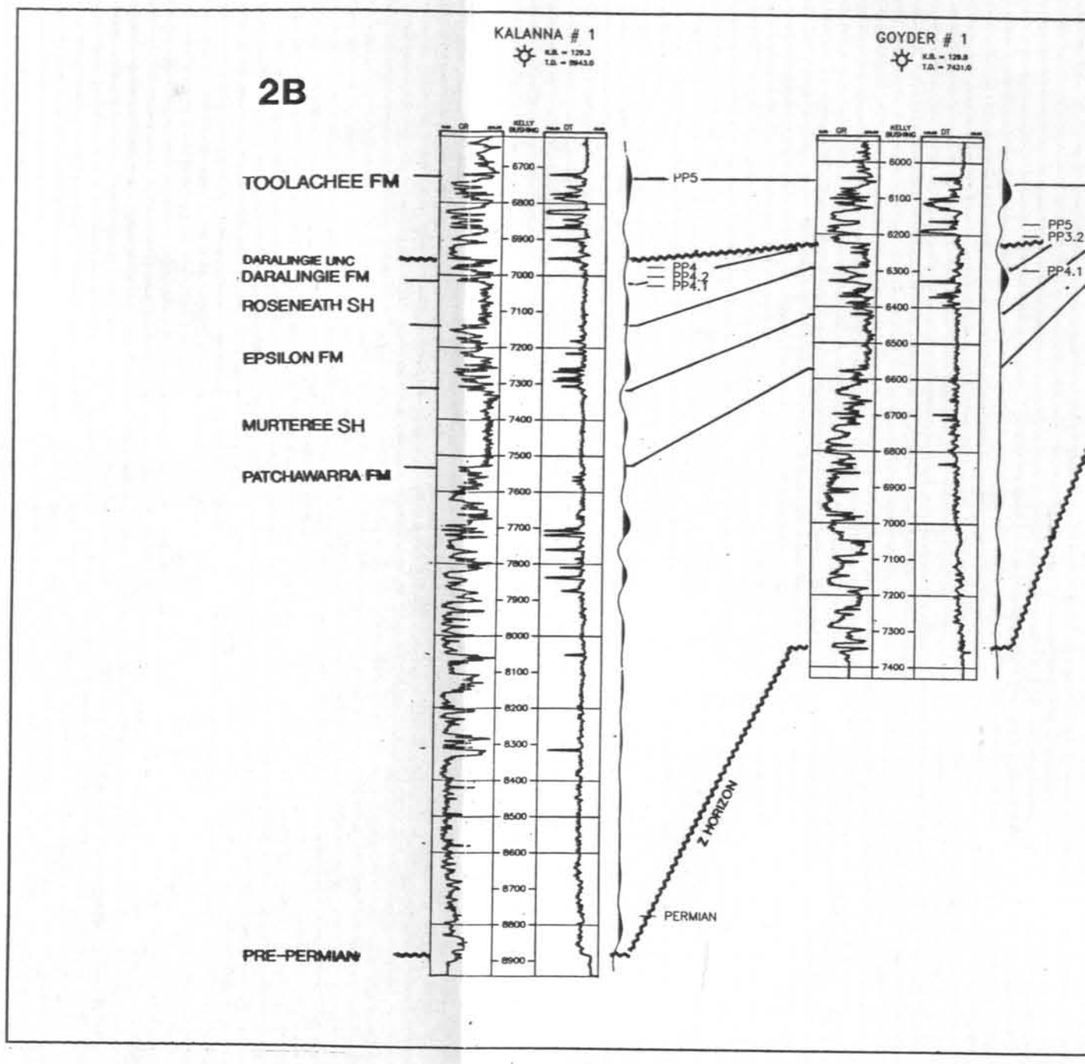
HORIZONTAL SCALE : DIAGRAMATIC

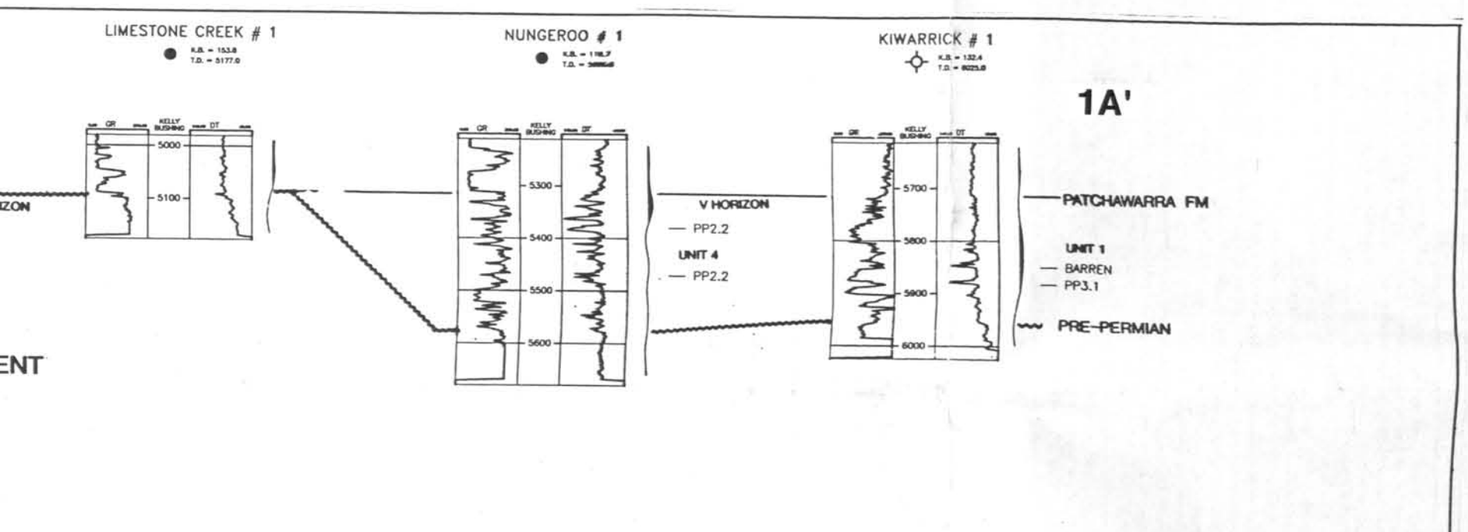


STRATIGRAPHIC CROSS-SECTION 1

1B–1B'

HORIZONTAL SCALE : DIAGRAMATIC



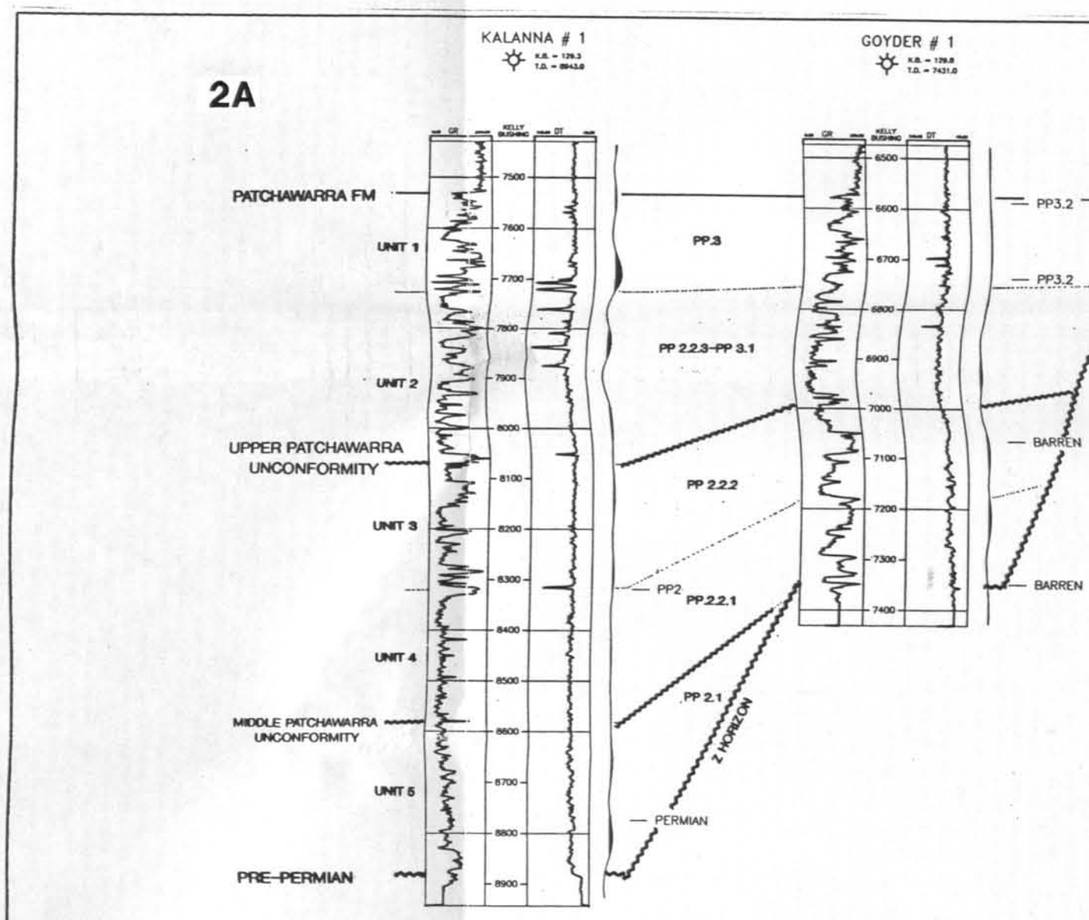


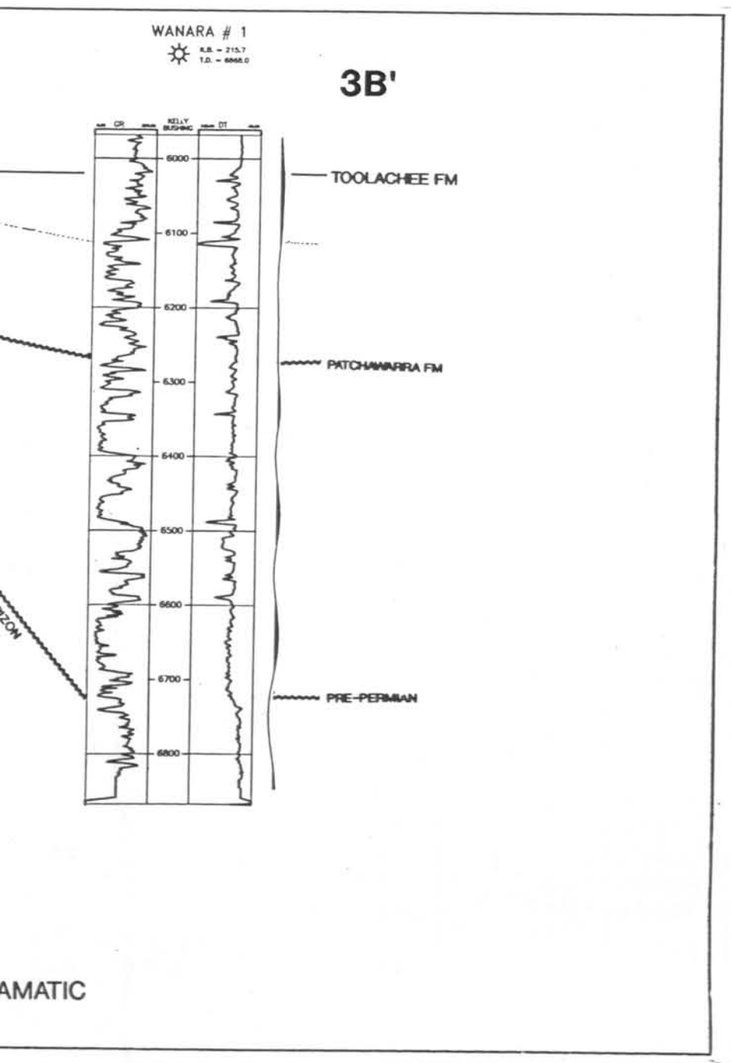
STRATIGRAPHIC CROSS-SECTION 1

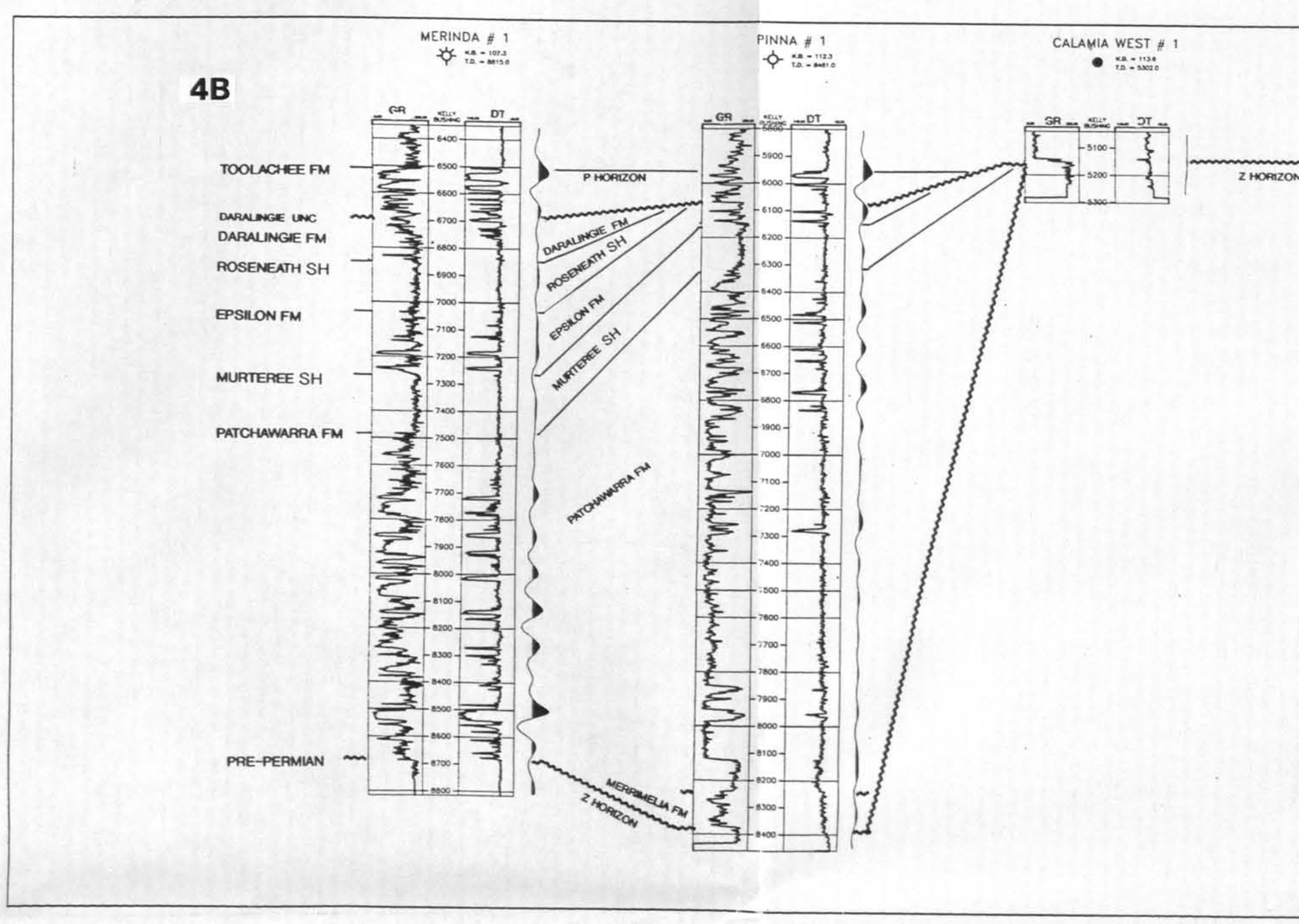
1A–1A'

(KALANNA-1 to KIWARRICK-1)

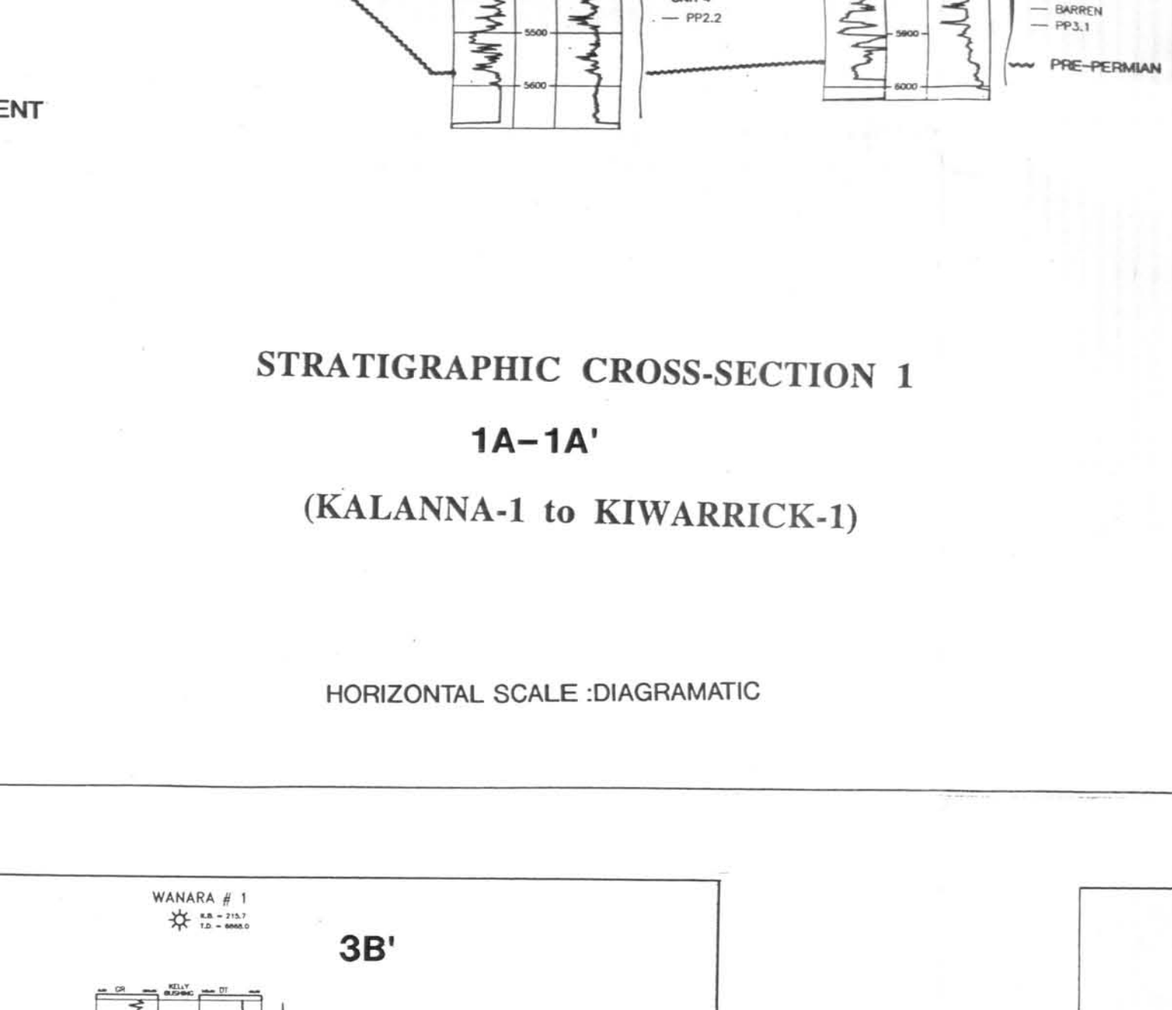
HORIZONTAL SCALE :DIAGRAMATIC







ENT

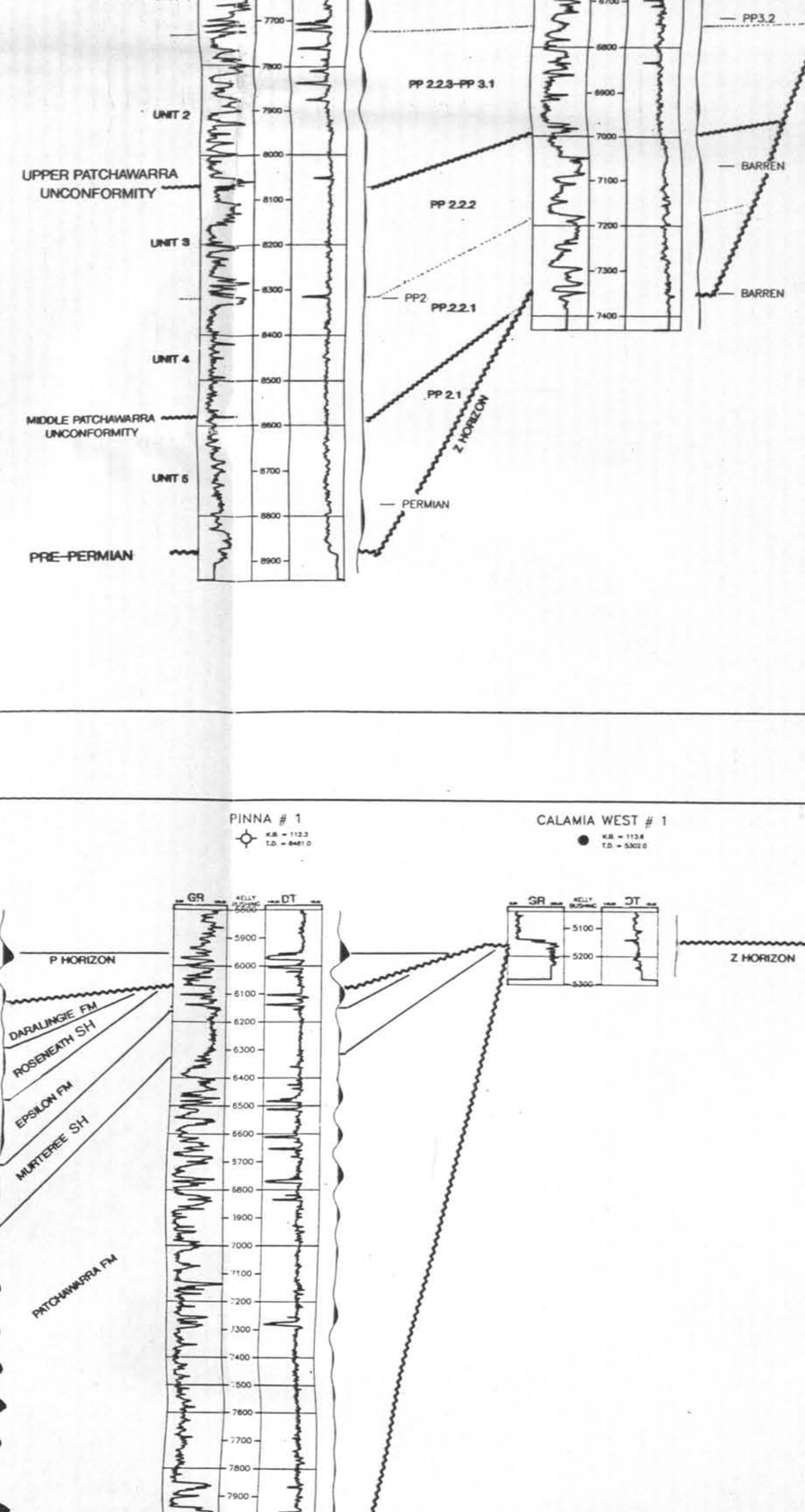


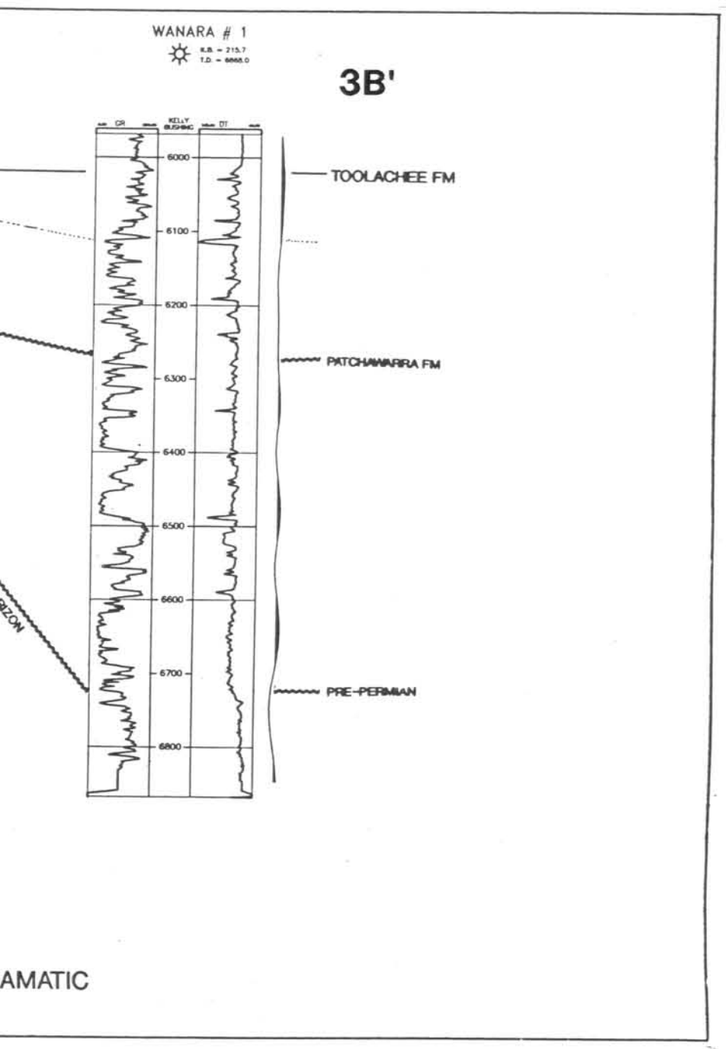
STRATIGRAPHIC CROSS-SECTION 1

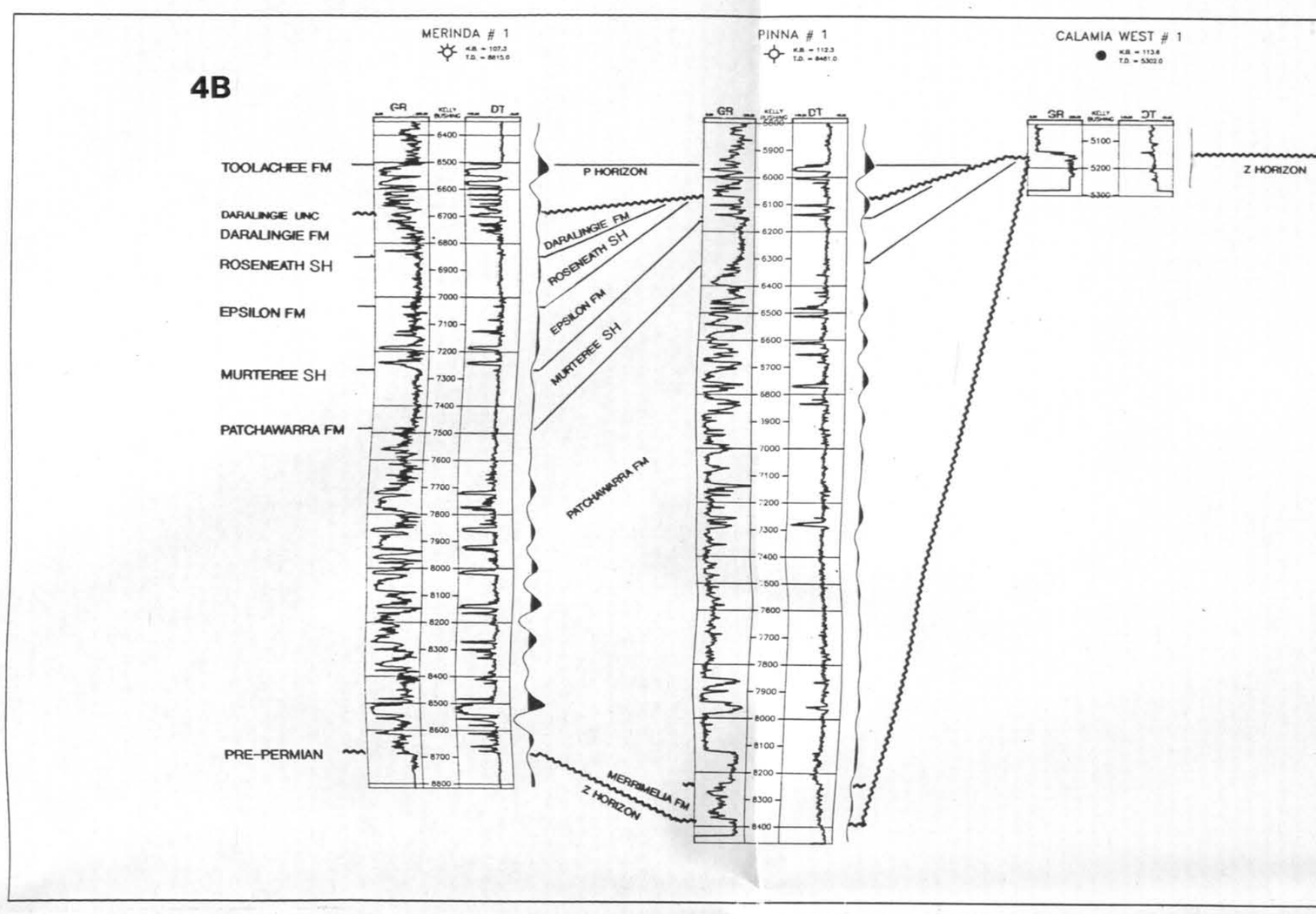
1A–1A'

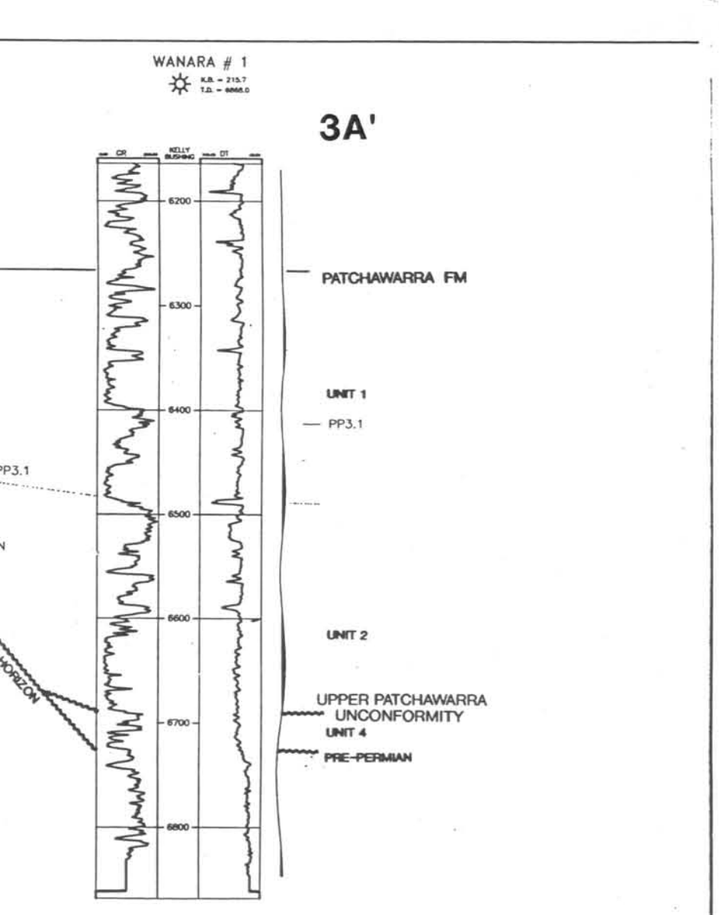
(KALANNA-1 to KIWARRICK-1)

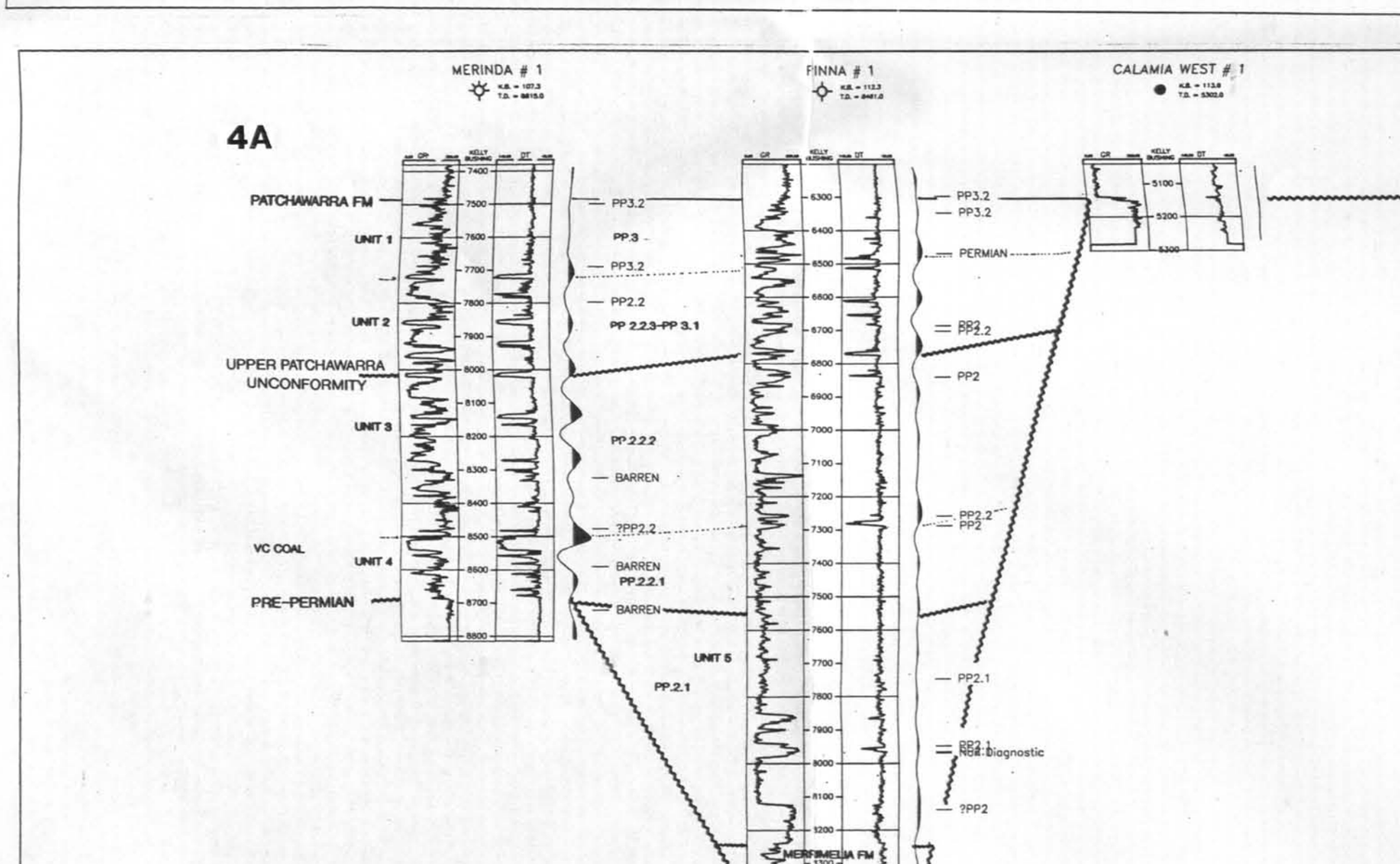
HORIZONTAL SCALE :DIAGRAMATIC

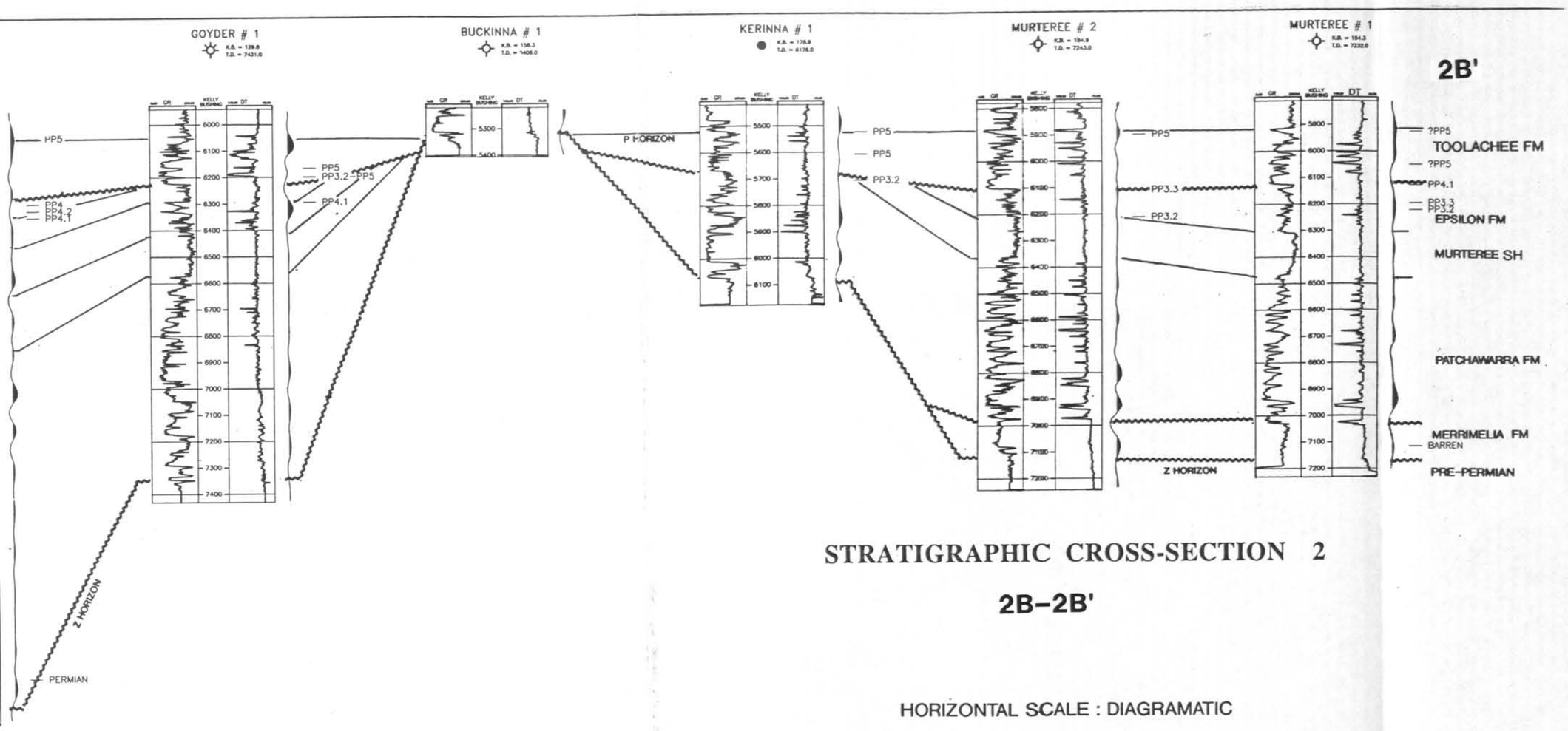








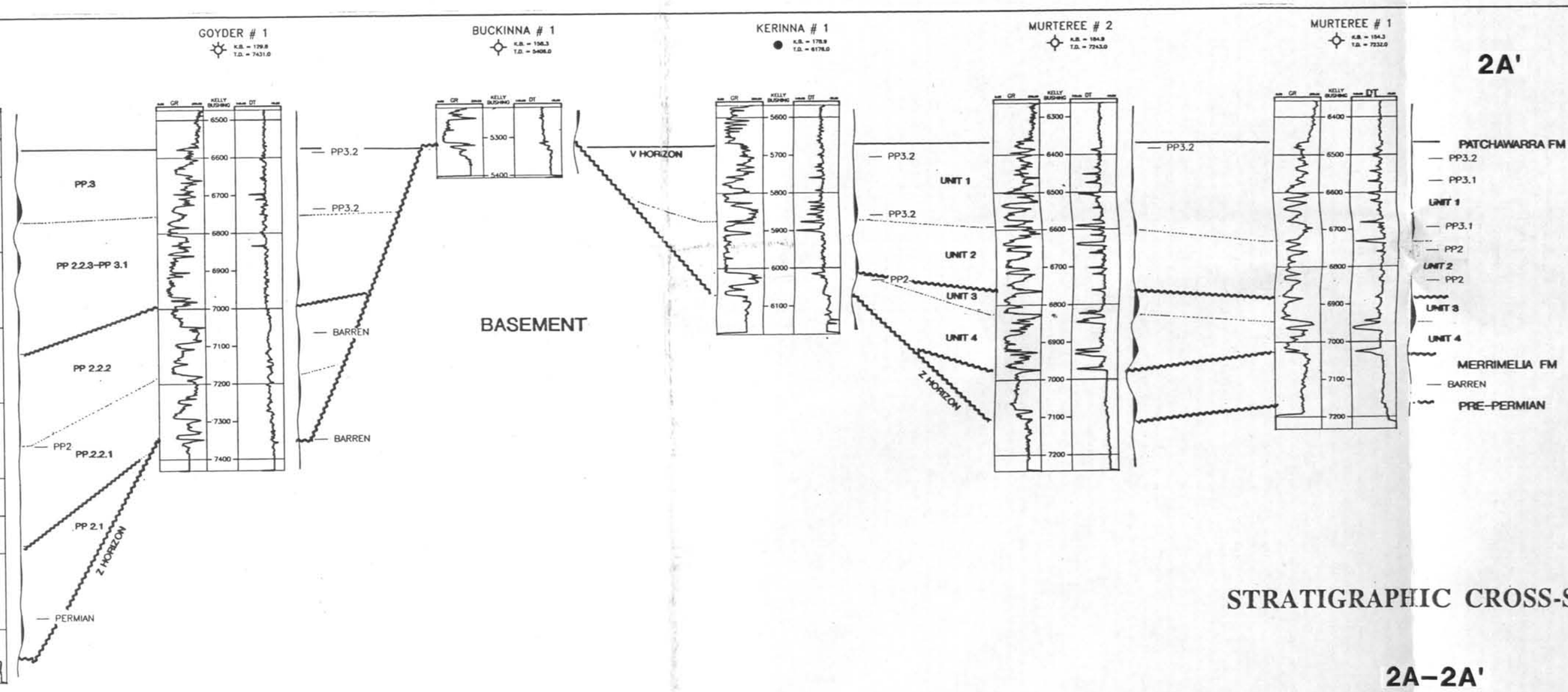




STRATIGRAPHIC CROSS-SECTION 2

2B–2B'

HORIZONTAL SCALE : DIAGRAMATIC

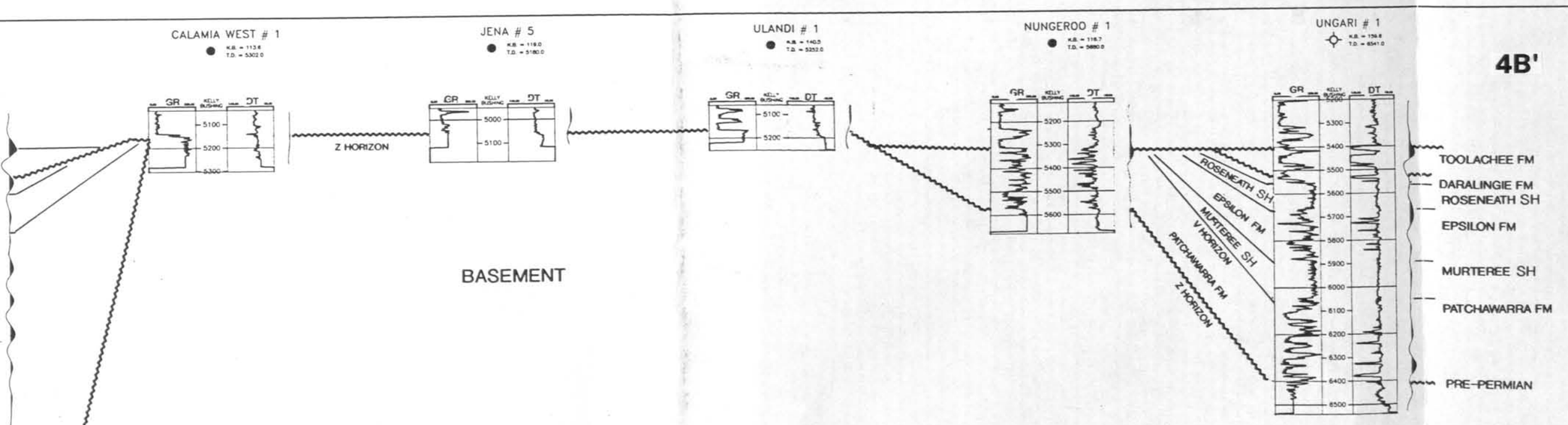


STRATIGRAPHIC CROSS-SECTION 2

2A–2A'

(KALANNA-1 to MURTEREE-1)

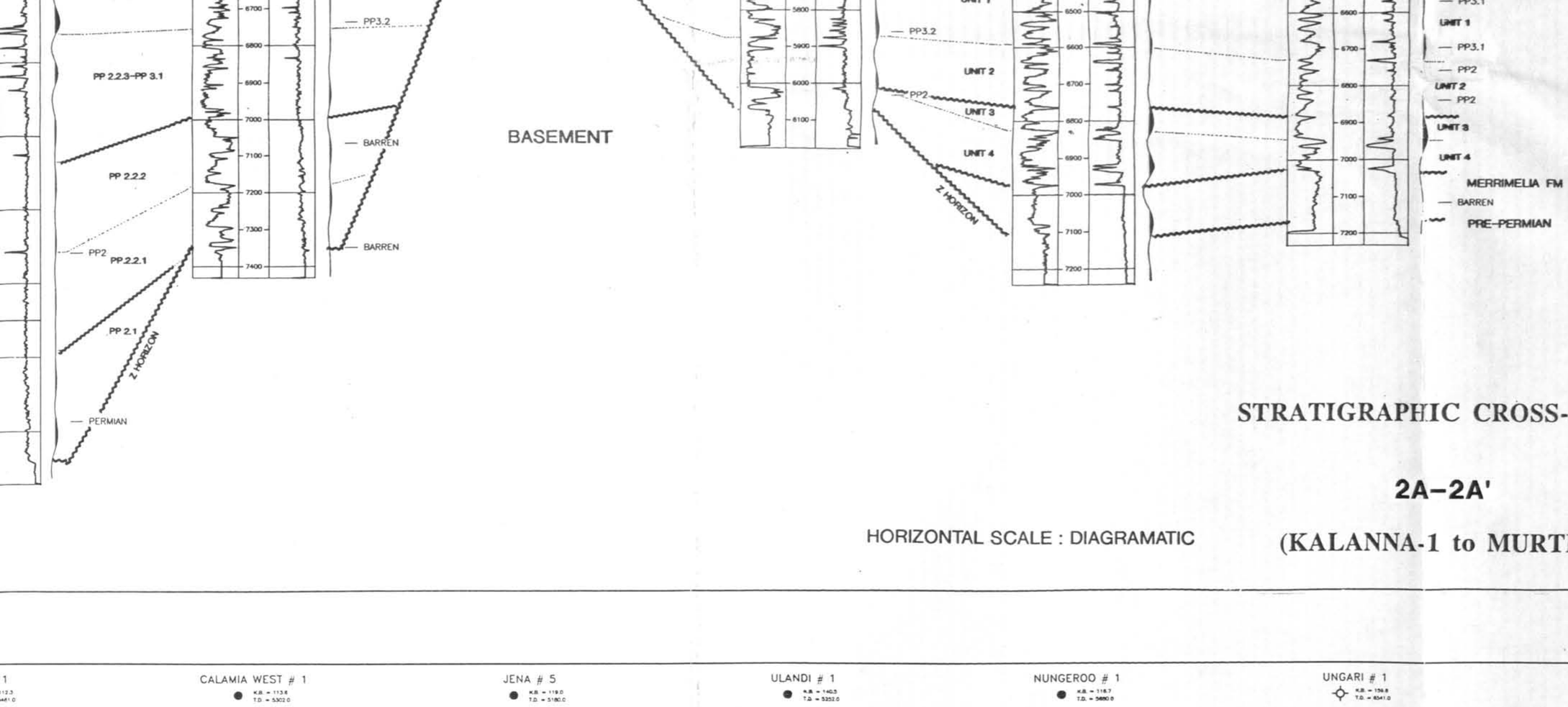
HORIZONTAL SCALE : DIAGRAMATIC



STRATIGRAPHIC CROSS-SECTION 4

4B–4B'

HORIZONTAL SCALE : DIGRAMATIC

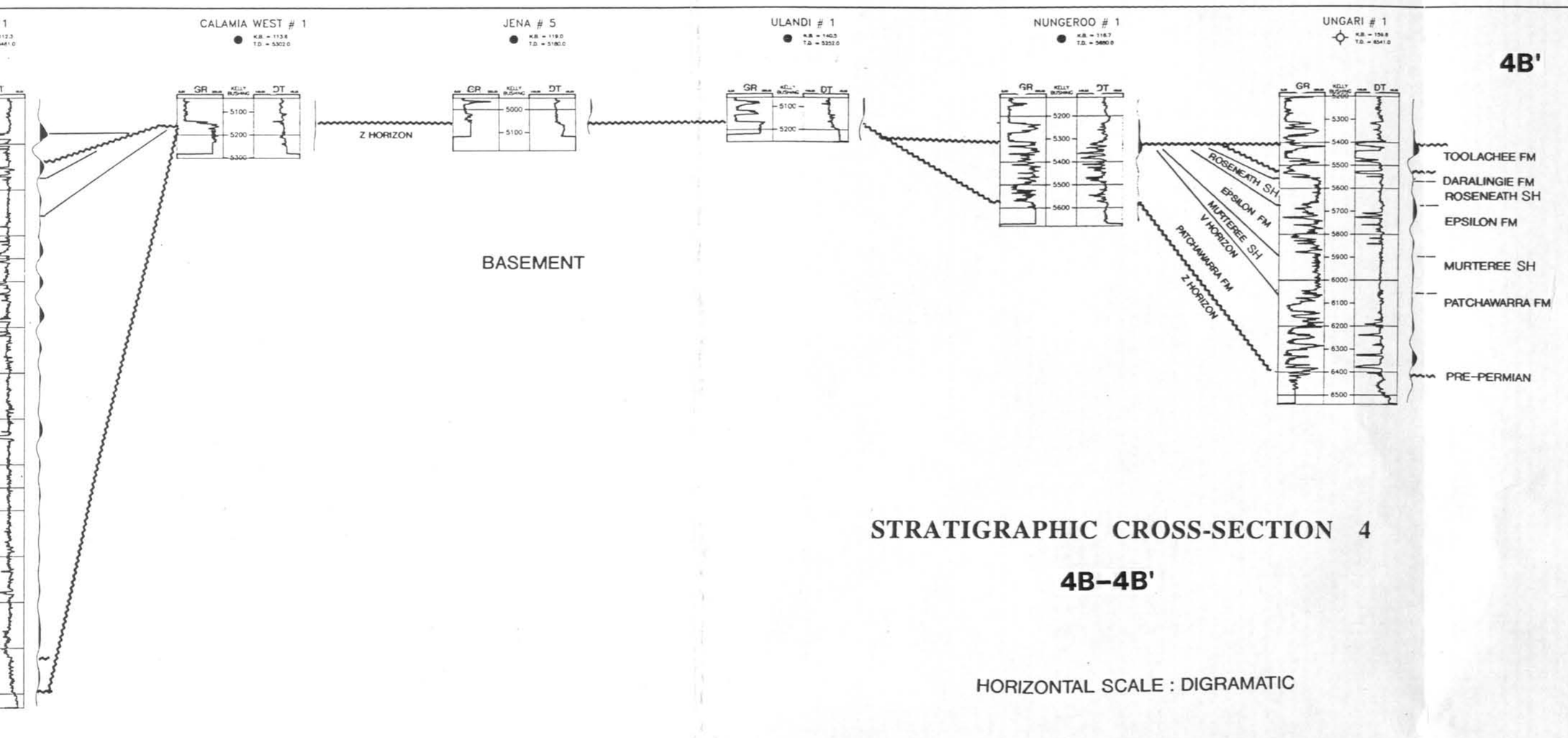


STRATIGRAPHIC CROSS-SECTION 2

2A–2A'

HORIZONTAL SCALE : DIAGRAMATIC

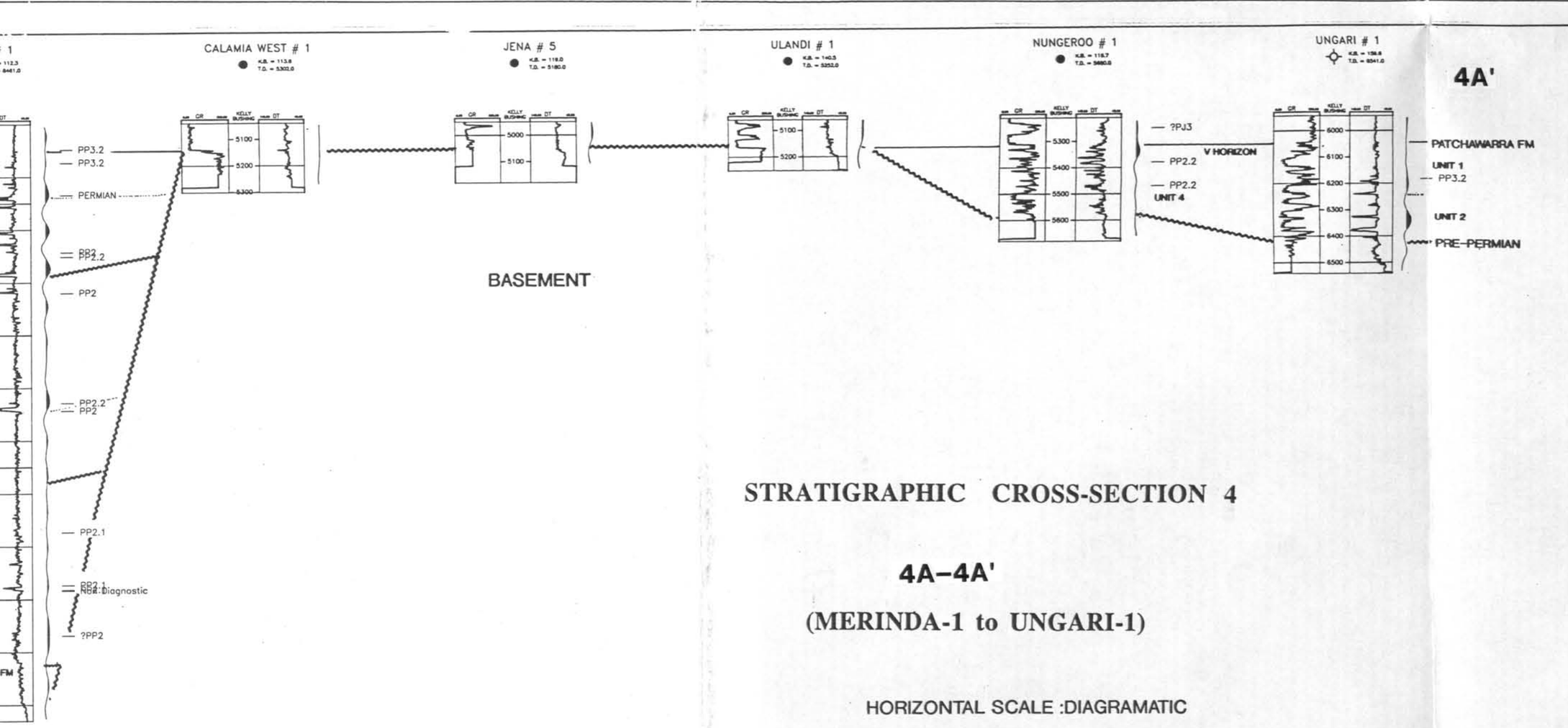
(KALANNA-1 to MURTEREE-1)



STRATIGRAPHIC CROSS-SECTION 4

4B–4B'

HORIZONTAL SCALE : DIGRAMATIC



STRATIGRAPHIC CROSS-SECTION 4

4A–4A'

(MERINDA-1 to UNGARI-1)

HORIZONTAL SCALE :DIAGRAMATIC

LACHEE FM

ON FM

EREE SH

HAWARRA FM

IMELIA FM

ERMIAN

2A'

CHAWARRA FM

RIMELIA FM

-PERMIAN

ROSS-SECTION 2

MURTEREE-1)

4B'

CHEE FM

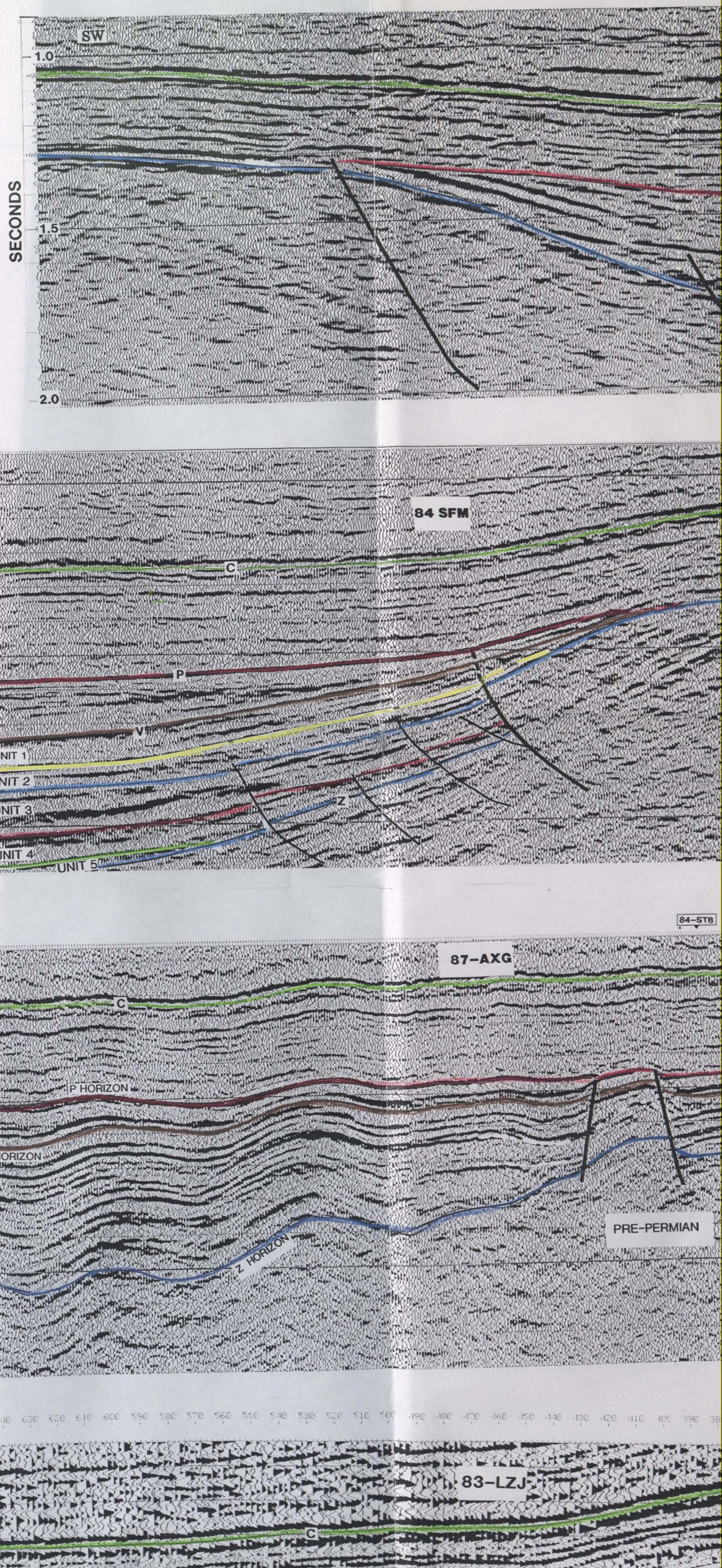
NGIE FM
NEATH SH

ON FM

EREE SH

AWARRA FM

ERMIAN



HELIA FM

ERMIAN

OSS-SECTION 2

IURTEREE-1)

4B'

E FM

E FM
H SH

M

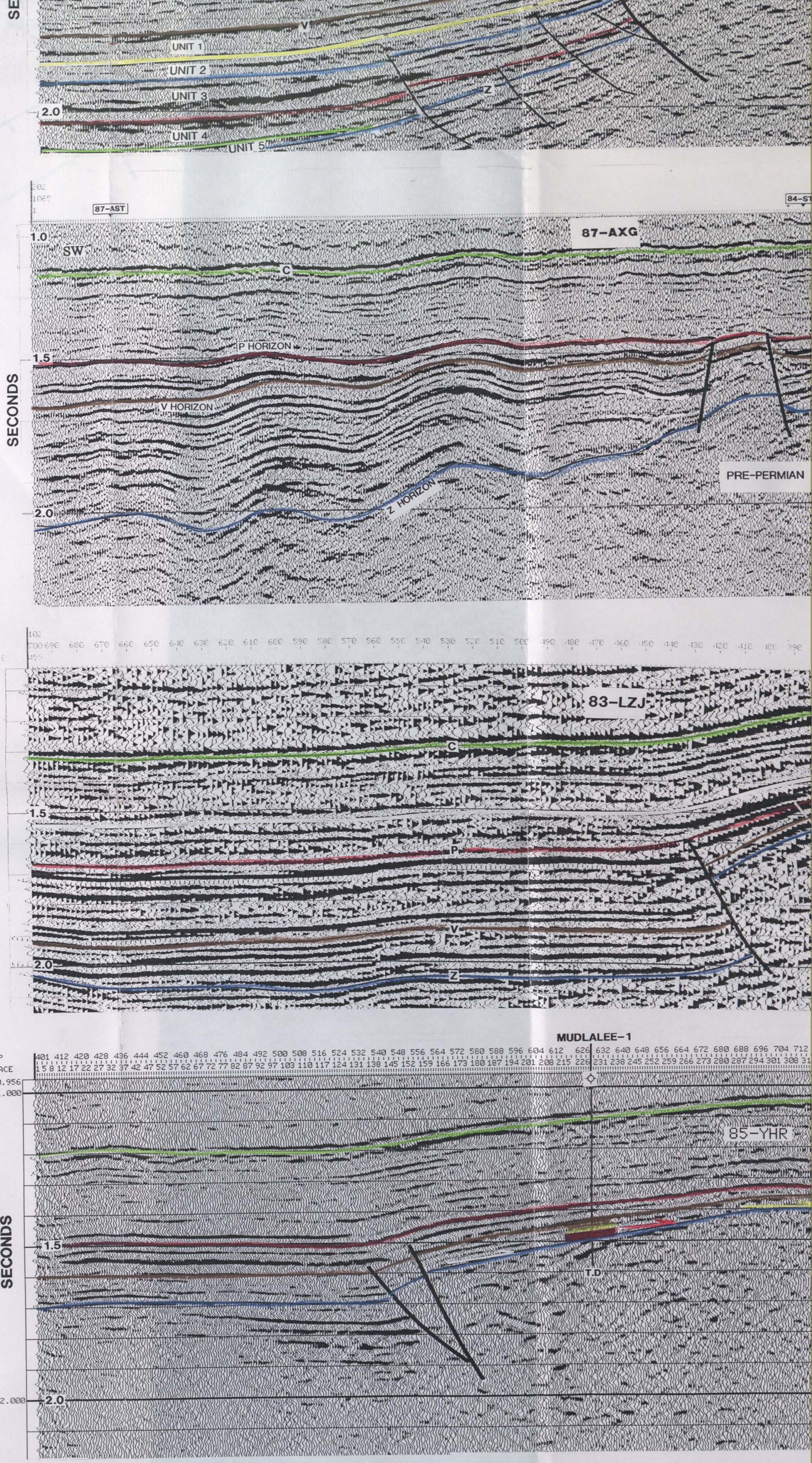
E SH

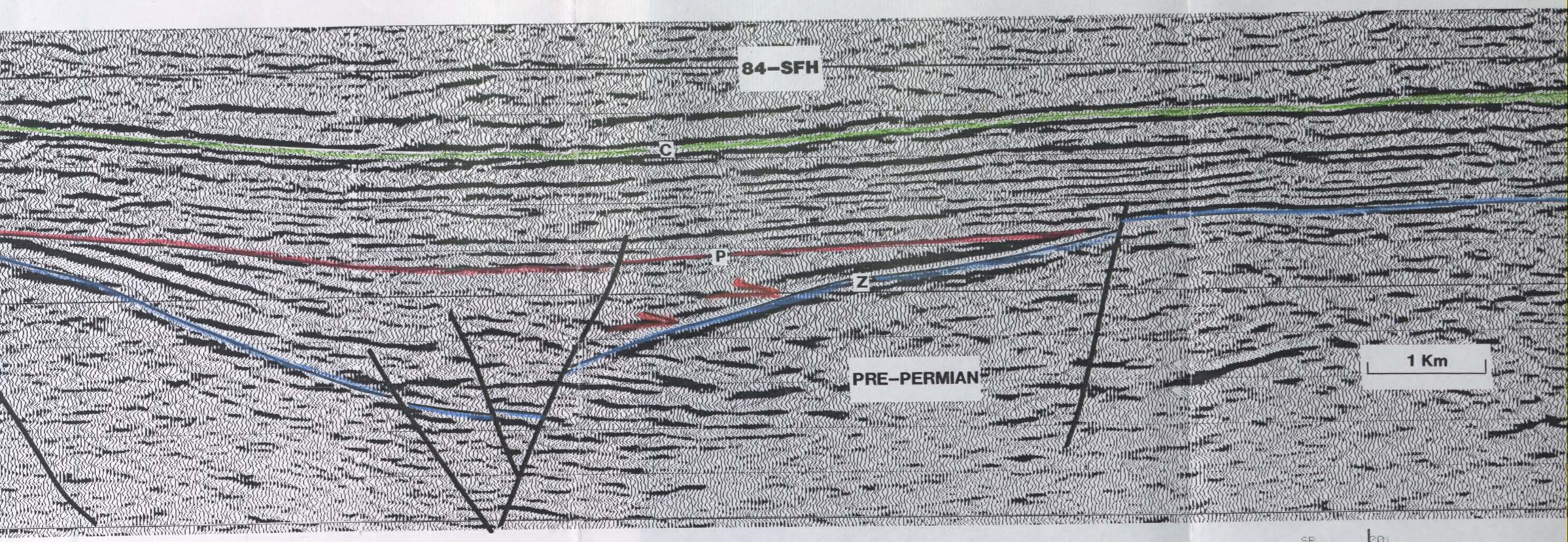
RRA FM

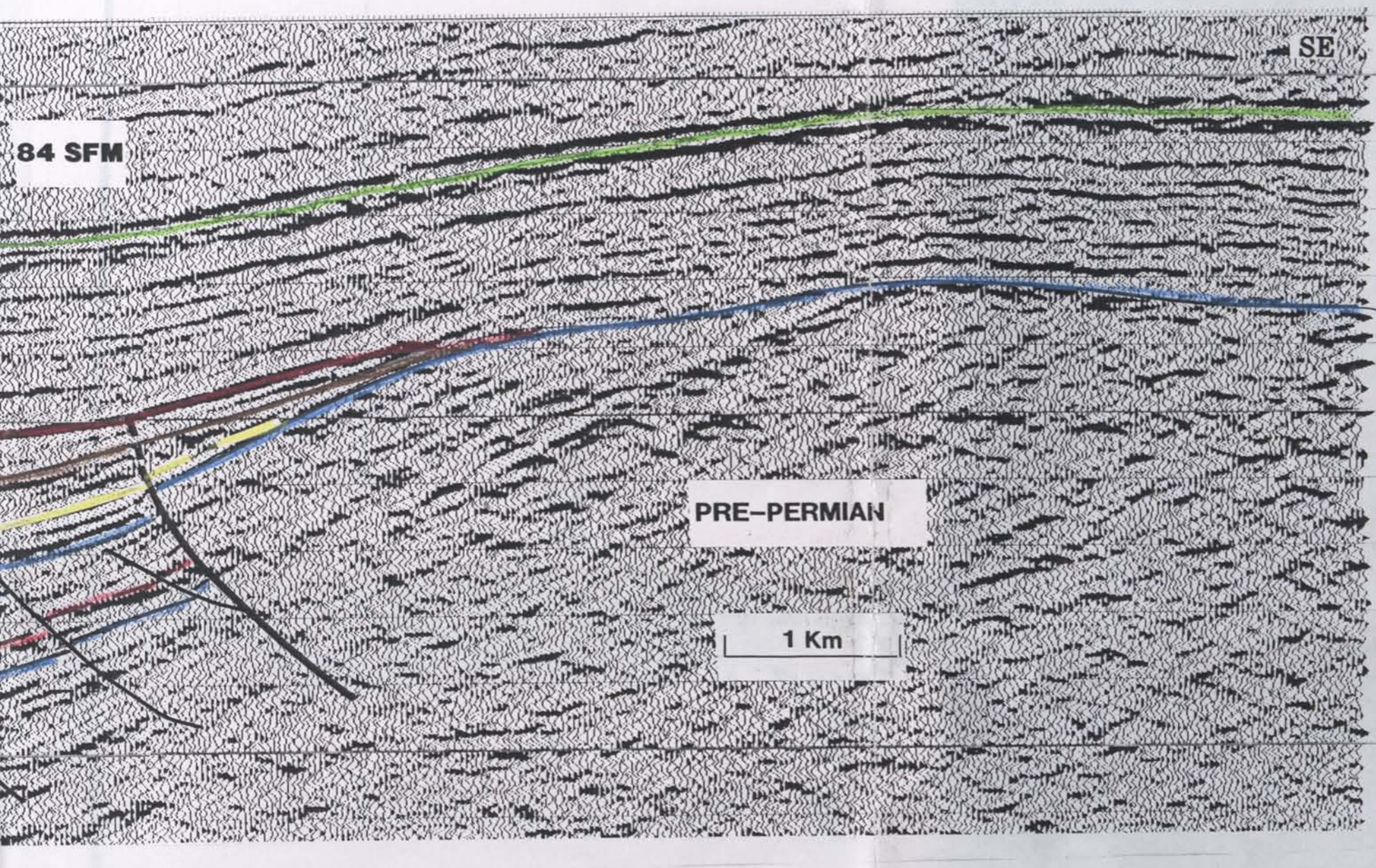
MIAN

RA FM

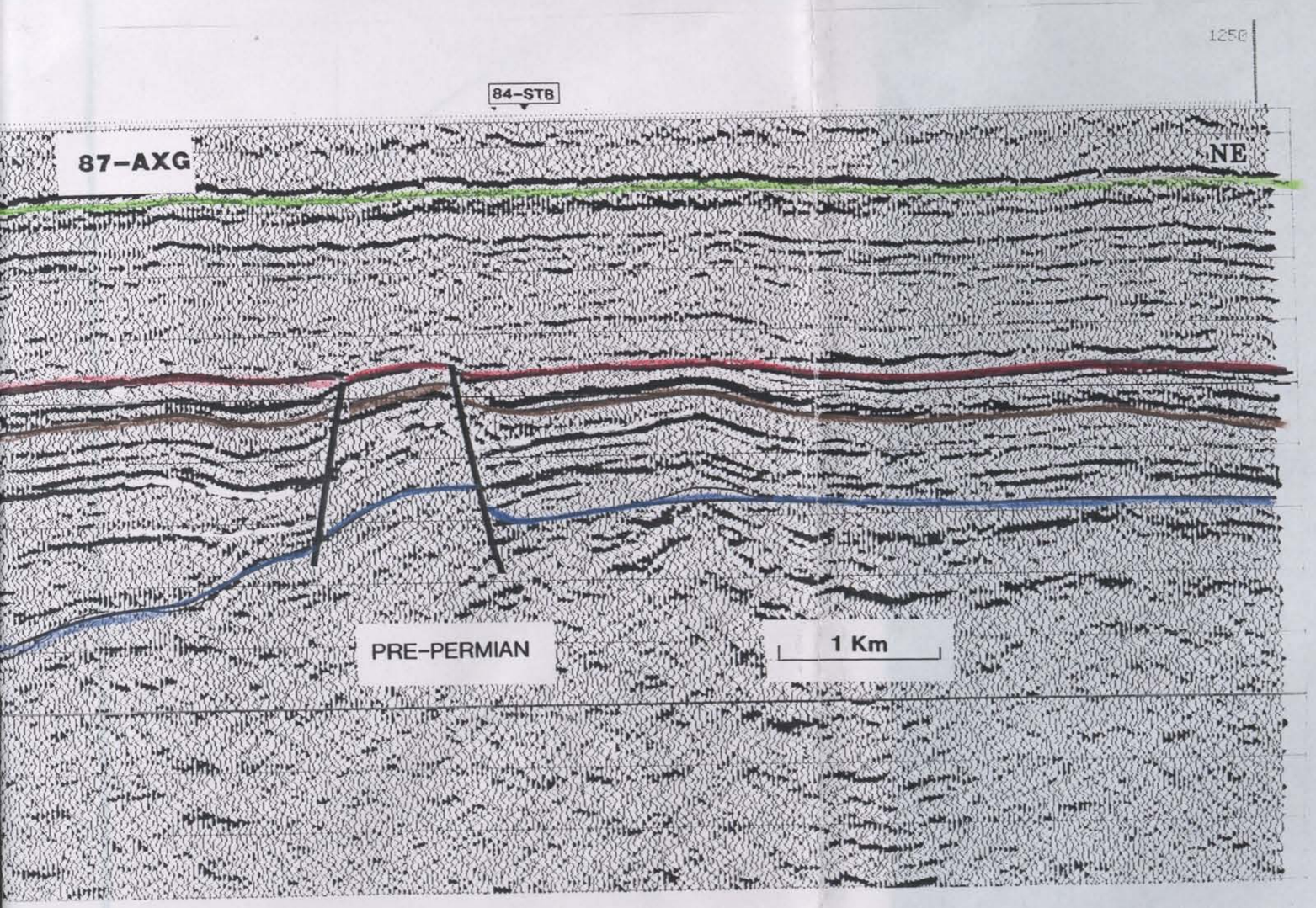
IAN

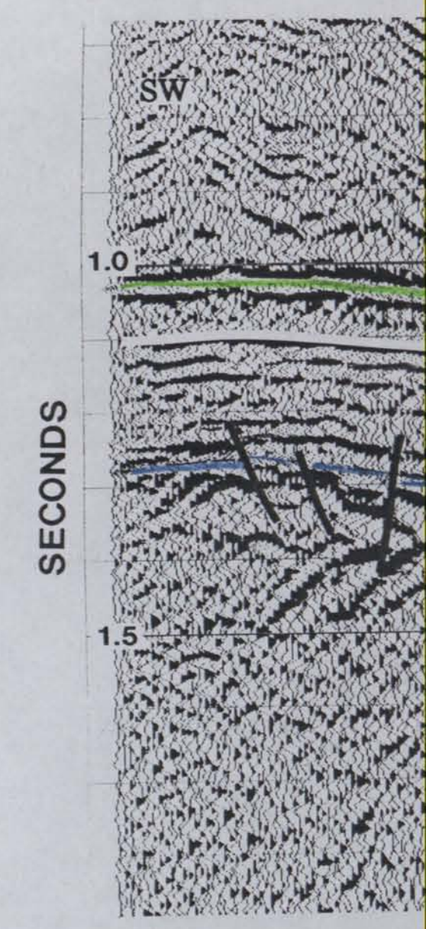


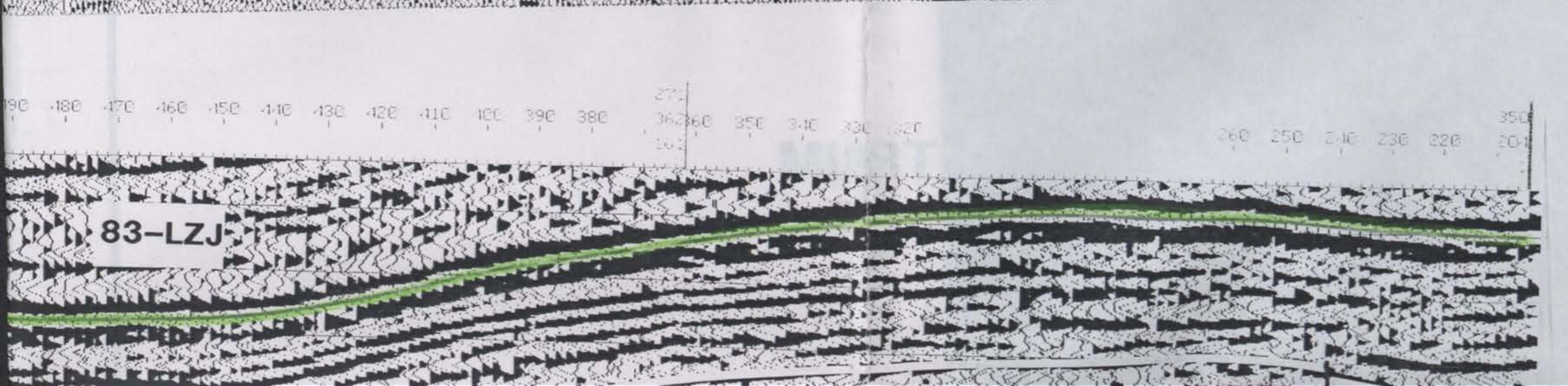

84–SFH
C
P
Z
PRE–PERMIAN
1 Km

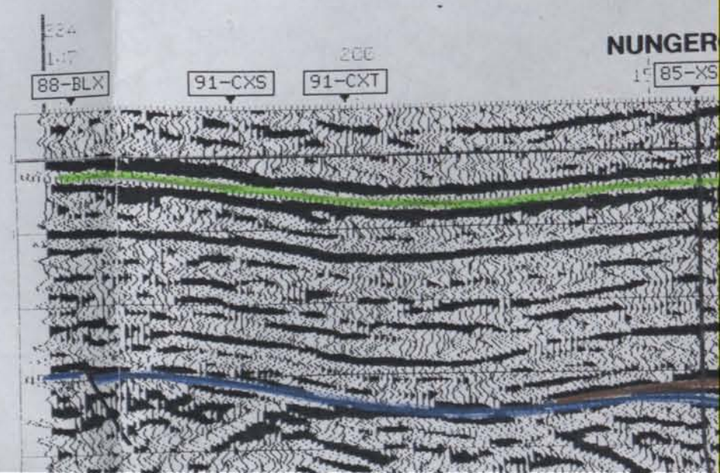

SE
84 SFM
PRE–PERMIAN
1 Km


SP
CDP
TRACE
SECONDS
1.5
2.0


1250
84–STB
87–AXG
NE
PRE–PERMIAN
1 Km


SW
SECONDS
1.0
1.5


83–LZJ


88–BLX
91–CXS
91–CXT
85–XS

1 Km

2.0

84–STB

87–AXG

NE

PRE-PERMIAN

1 Km

SW

1.0

SECONDS

1.5

2.0

83–LZJ

1Km

88–BLX

91–CXS

91–CXT

85–XSX

NUNGERO

T.D

85–XS

MUDLALEE–1

MUDLALEE–2

85–YHR

C

P

V

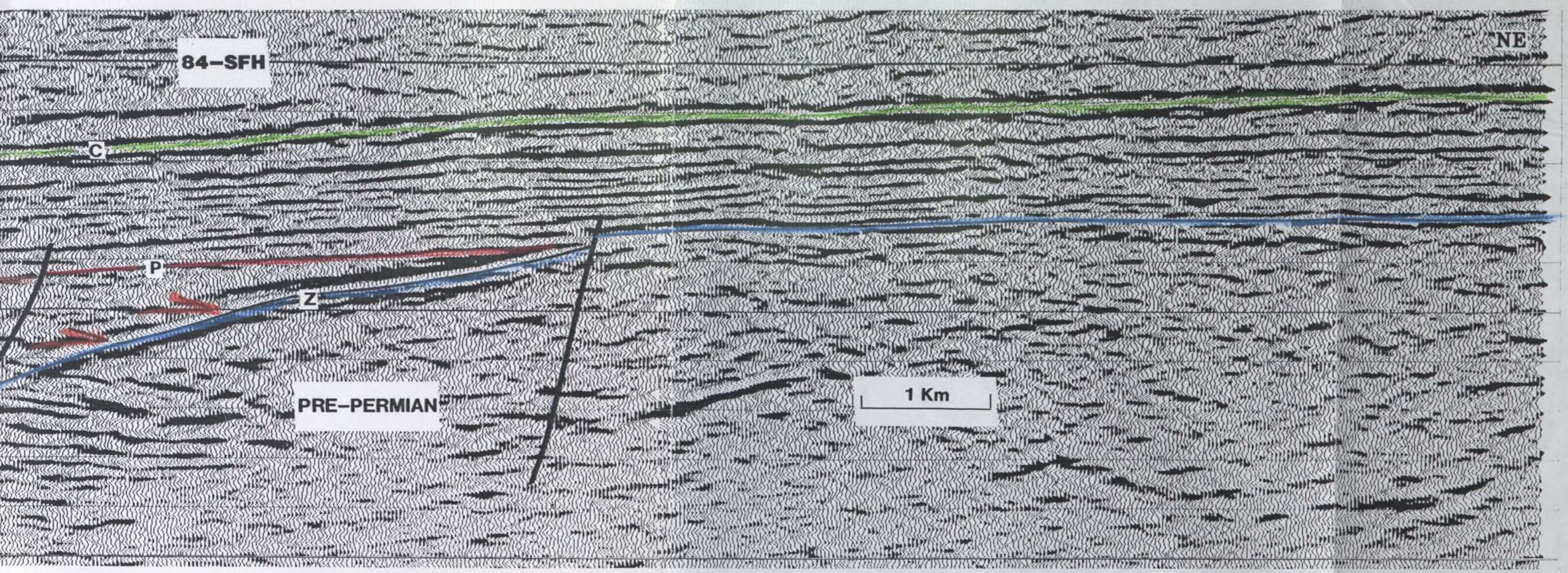
Z

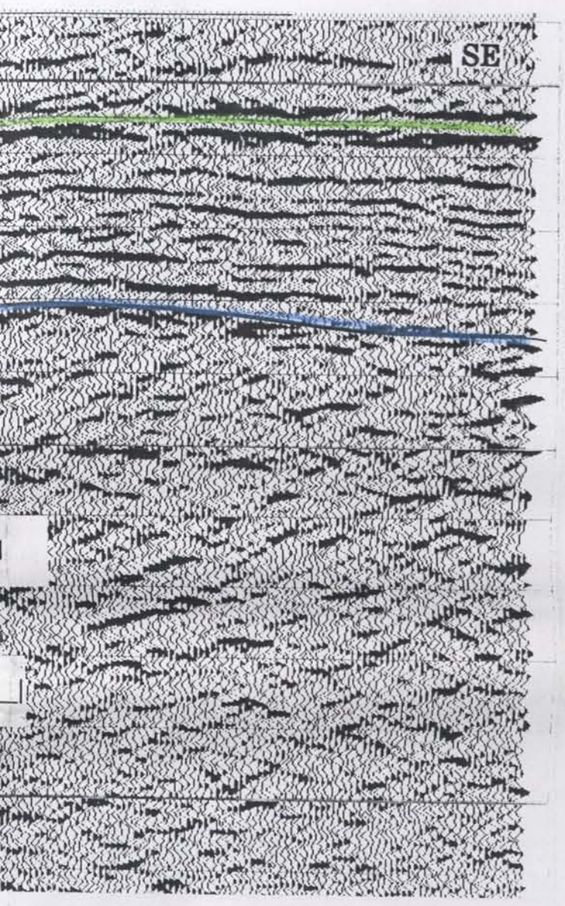
T.D

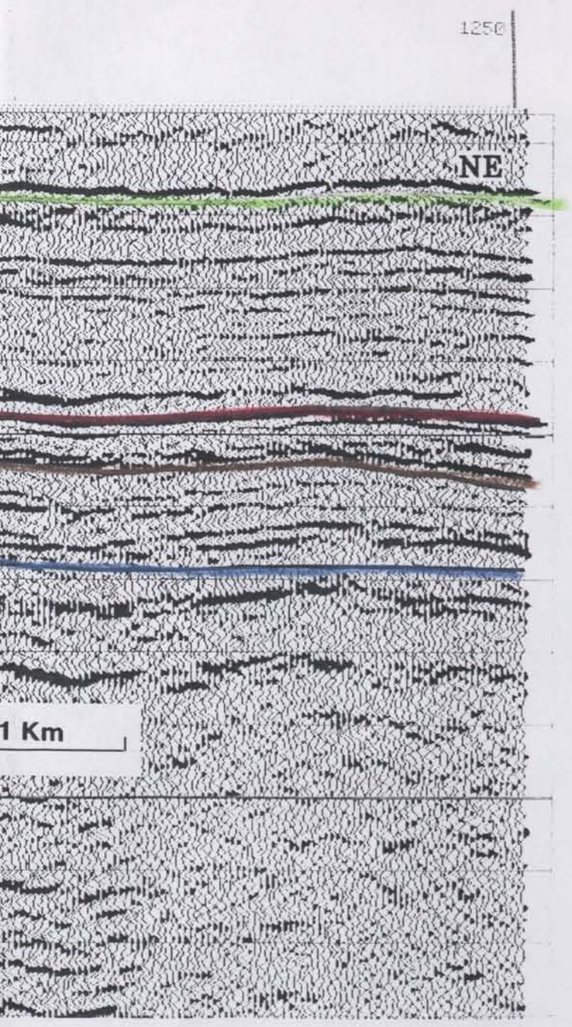
T.D

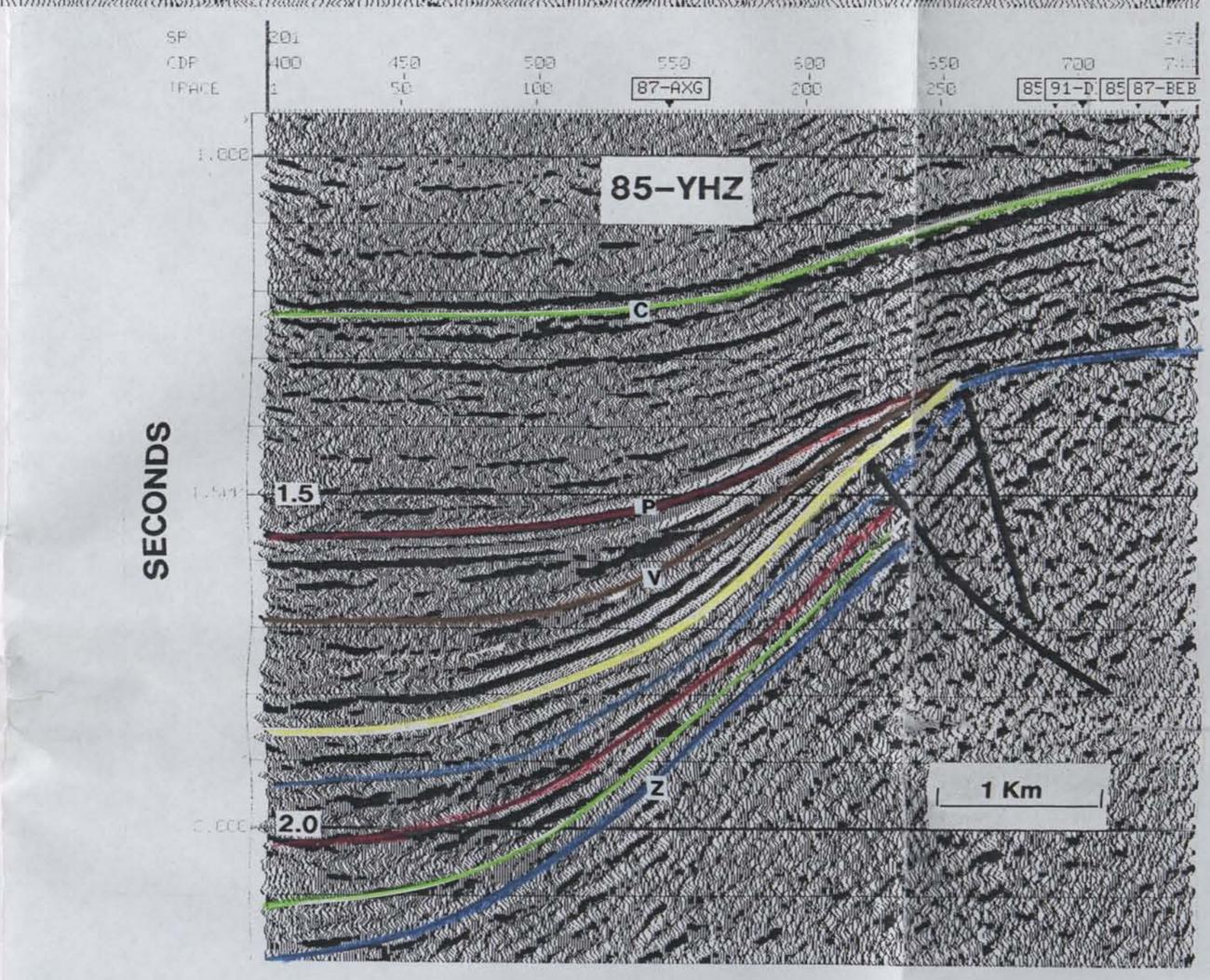
1 Km

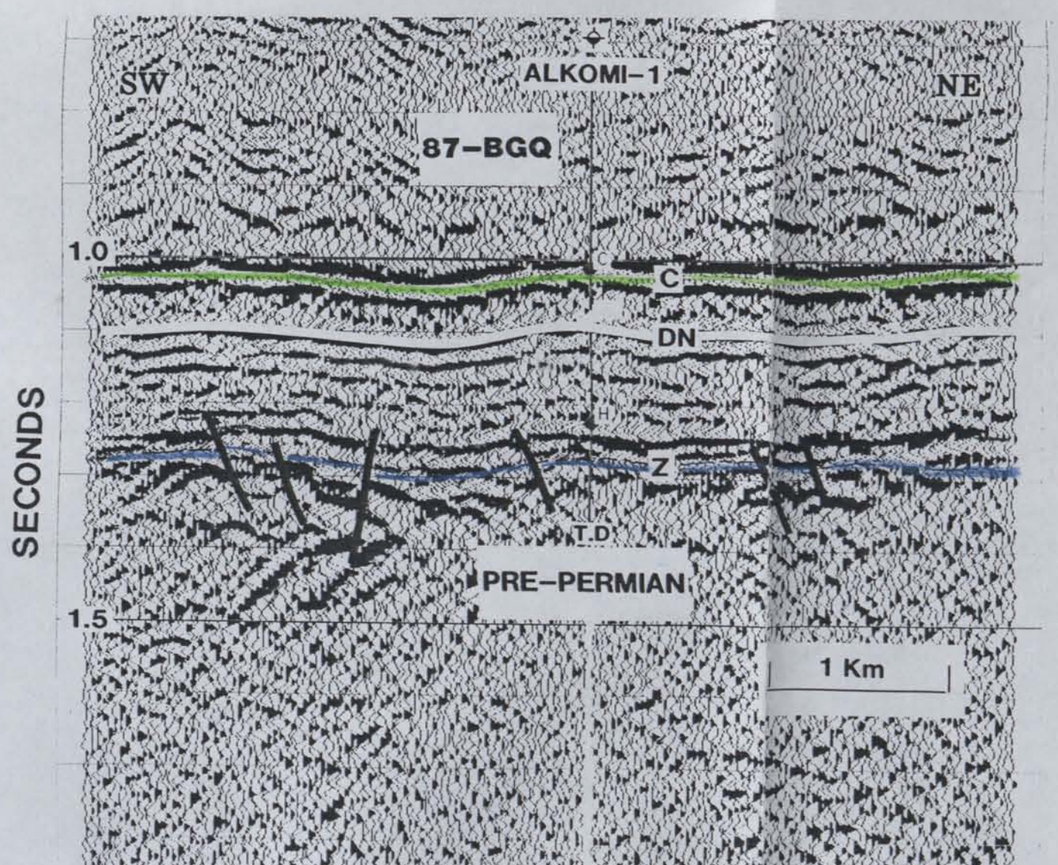
ENCLOSURE 2.6

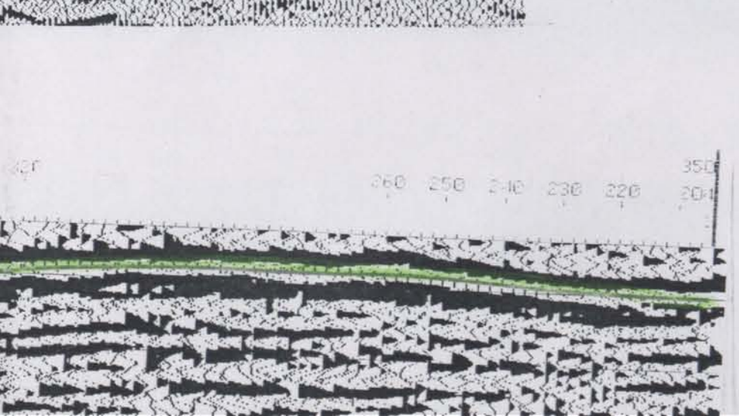

84–SFH
NE
C
P
Z
PRE–PERMIAN
1 Km

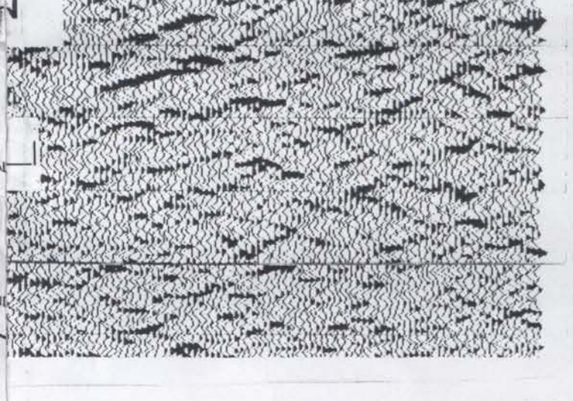

SE

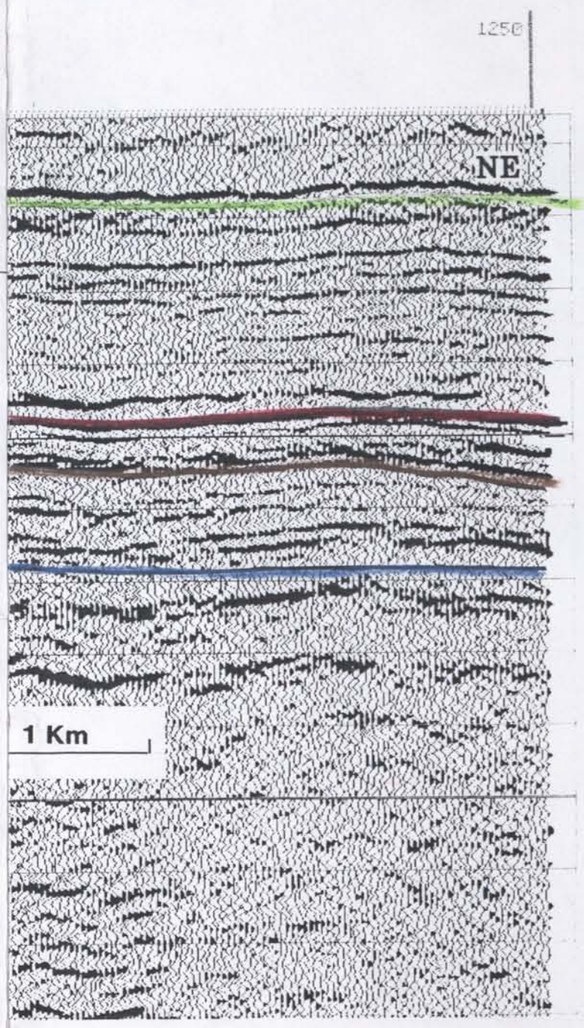

1250
NE
1 Km

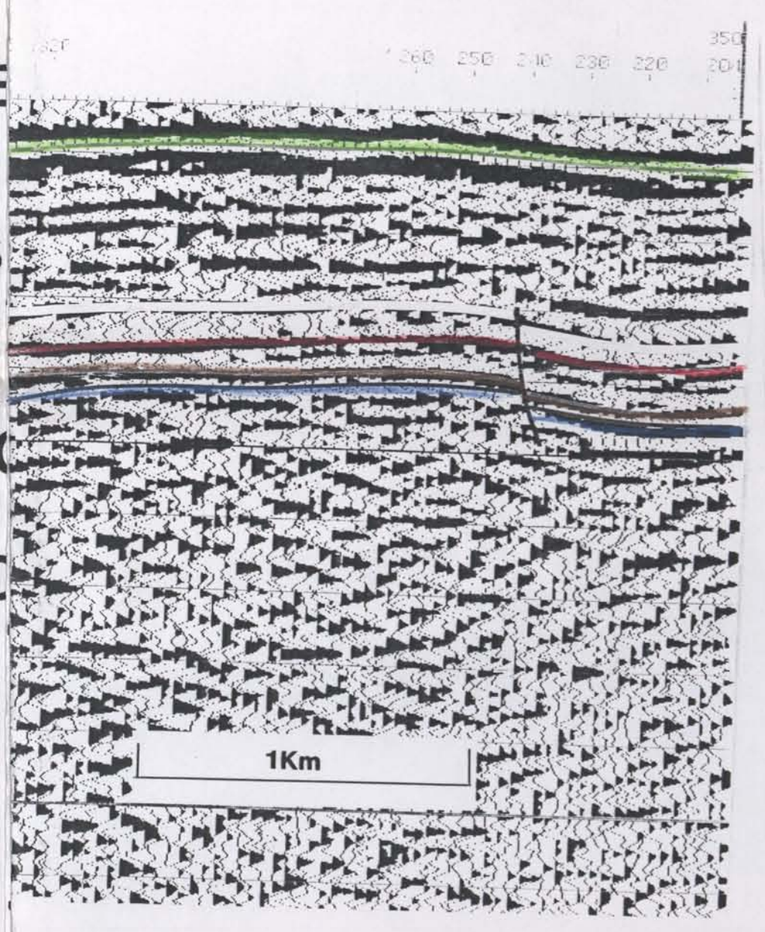

SP
CDP
TRACE
87–AXG
85–YHZ
SECONDS
1.5
2.0
C
P
V
Z
1 Km


SW
ALKOMI–1
NE
87–BGQ
SECONDS
1.0
1.5
C
DN
Z
T.D
PRE–PERMIAN
1 Km

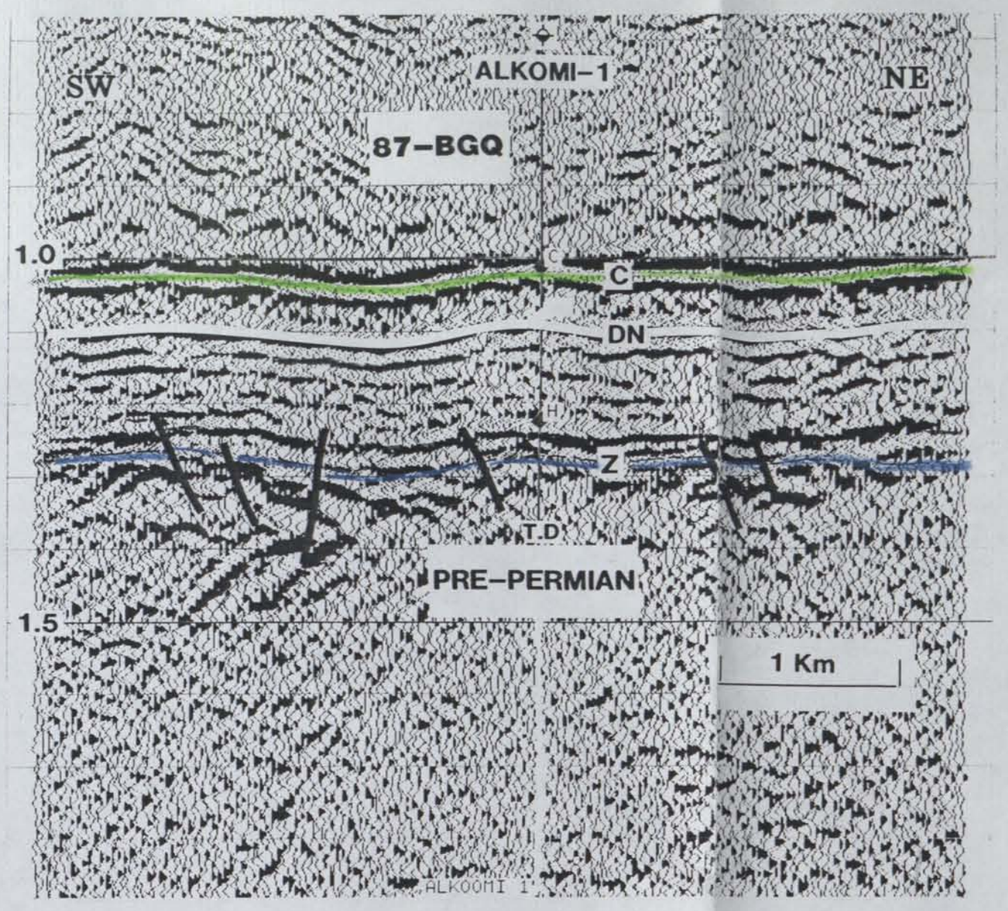

88–BLX
91–CXS
91–CXT
NUNGEROO–1
85–XSX
83–NBL
C

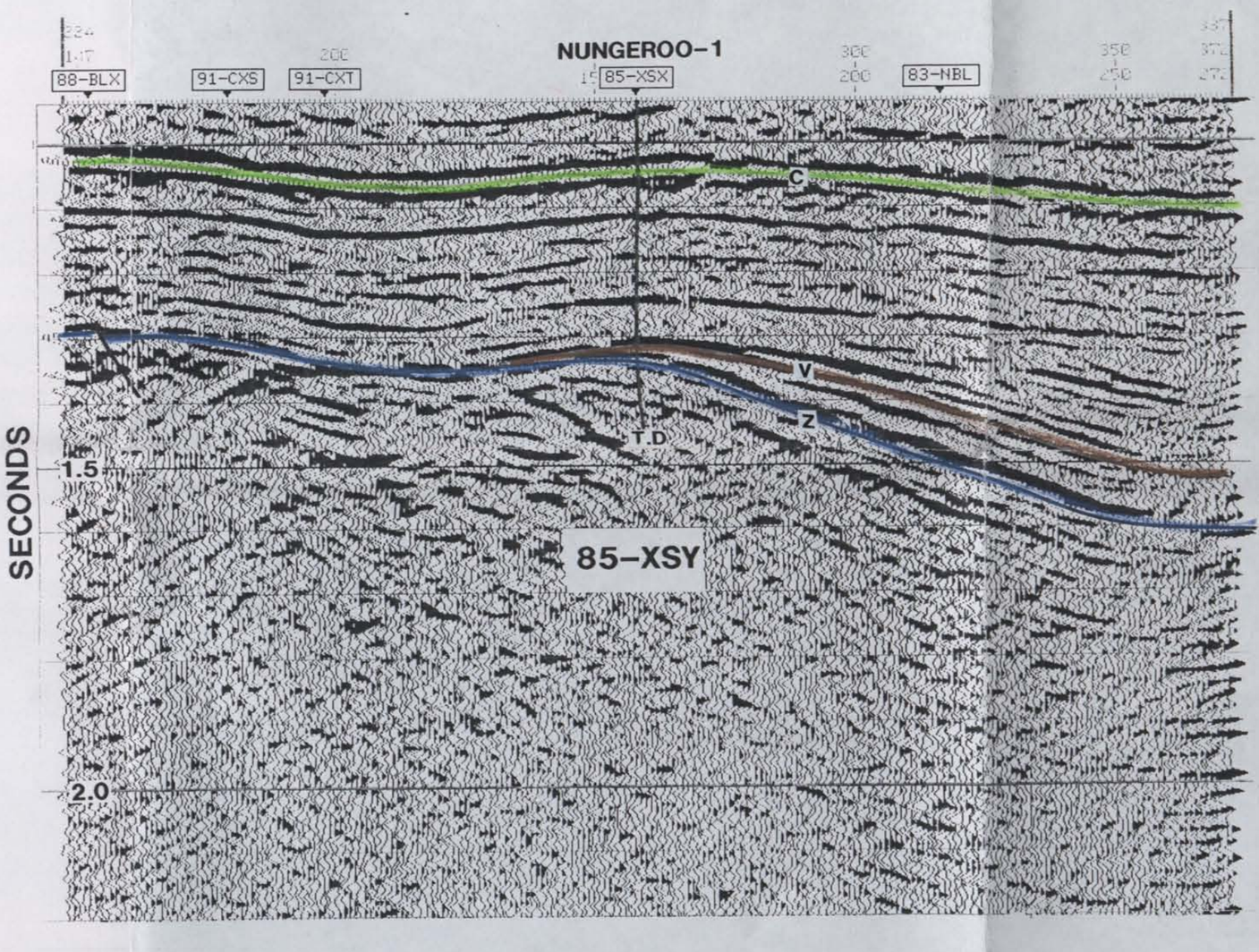


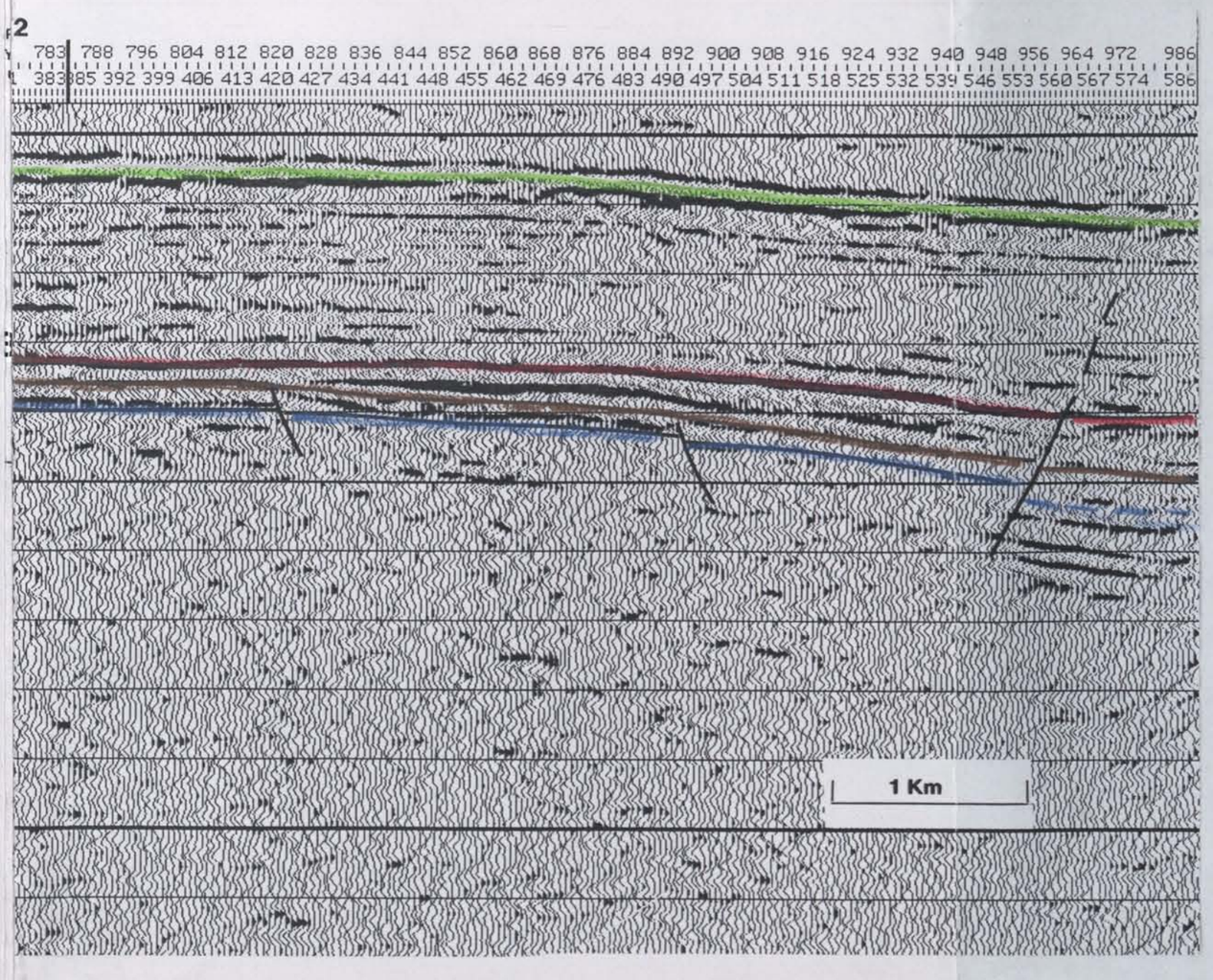

1250
NE
1 Km


1Km


Z
2.0
1 Km

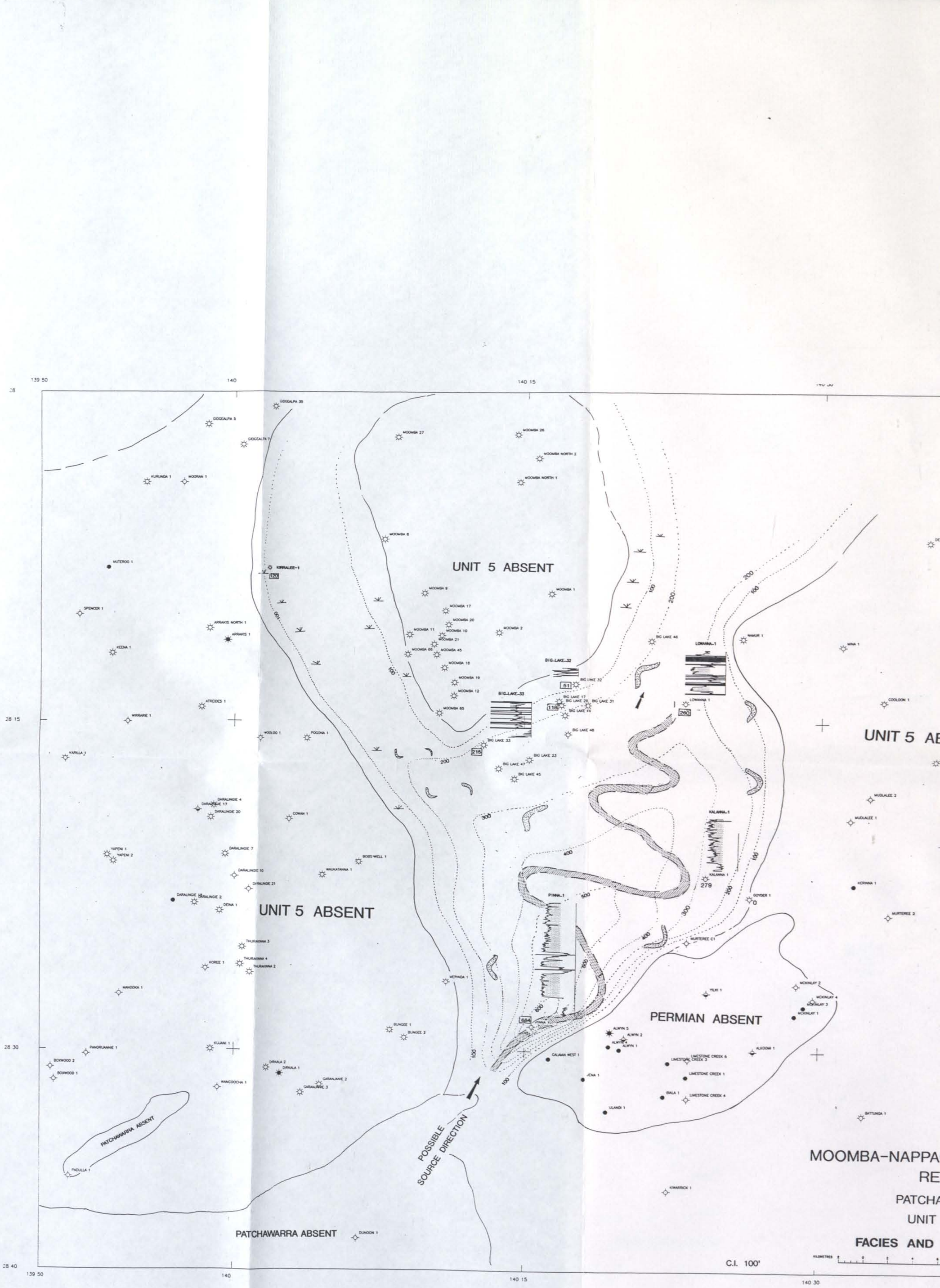

SW
ALKOMI-1
NE
87-BGQ
1.0
C
DN
Z
T.D
PRE-PERMIAN
1.5
1 Km
ALKOOMI 1


NUNGEROO-1
88-BLX
91-CXS
91-CXT
85-XSX
83-NBL
C
V
Z
T.D
1.5
2.0
85-XSY


783 788 796 804 812 820 828 836 844 852 860 868 876 884 892 900 908 916 924 932 940 948 956 964 972 986
383 385 392 399 406 413 420 427 434 441 448 455 462 469 476 483 490 497 504 511 518 525 532 539 546 553 560 567 574 586
1 Km

090PH
A639
MAPS
c.2

UNIVERSITY OF ADELAIDE LIBRARY



UNIT 5 ABSENT

PERMIAN ABSENT

UNIT 4 ABSENT

PATCHAWARRA ABSENT

MOOMBA–NAPPACOONGEE-MURTEREE REGION

PATCHAWARRA FM

UNIT 5 PP 2.1

FACIES AND ISOPACH MAP

C.I. 100'

KILOMETRES 2 0 2 4 6 8 10 KILOMETRES

SUKRU N. APAK
© NCPGG

140 30 — 140 45 — 28 40 — 28 30 — 28 15 — 28

139 50 — 140 — 28 40 — 28 30 — 28 15 — 28

UNIT 4 ABSENT

UNIT 4 ABSENT

UNIT 4 ABSENT

PERMIAN ABSENT

PATCHAWARRA ABSENT

MURTEREE

MOOMBA–NAPP
RE
PATCHA
UNIT

FACIES AN

VC COAL

C.I. 100'

KILOMETRES 2 0 2 4

SUKRU N. APAK
© NCPGG

UNIT 4 ABSENT

UNIT 3 ABSENT

UNIT 3 ABSENT

PERMIAN ABSENT

PATCHAWARRA ABSENT

PATCHAWARRA ABSENT

MOOMBA–NAPPACOONGEE-MURTEREE REGION

PATCHAWARRA FM

UNIT 4 PP 2.2.1

FACIES AND ISOPACH MAP

C.I. 100'

KILOMETRES 2 0 2 4 6 8 10 KILOMETRES

SUKRU N. APAK
© NCPGG

MOOMBA–NAPPACOONGEE-MURTEREE REGION

PATCHAWARRA FM

UNIT 3 PP 2.2.2

FACIES AND ISOPACH MAP

UNIT 3 ABSENT

PERMIAN ABSENT

UNIT 3 ABSENT

PATCHAWARRA ABSENT

UNIT 2 ABSENT

UNIT 3 ABSENT

MOOMBA-27

MOOMBA-8

BIG LAKE-32

BIG LAKE-31

BIG LAKE-33

LOMANNA-1

KALANNA-1

GOYDER-1

MURTEREE-C1

MURTEREE-2

BOBS WELL-1

MERINDA-1

PINNA-1

BUNGEE-1

C.I. 100'

KILOMETRES 2 0 2 4 6 8 10 KILOMETRES

SUKRU N. APAK
© NCPGG

140 15 140 30 140 45 28 40 28 30 28 15 28 28 40 139 50

MOOMBA–NAPPACOONGEE-MURTEREE REGION

PATCHAWARRA FM

UNIT 2 PP 2.2.3

FACIES AND ISOPACH MAP

KILOMETRES 2 0 2 4 6 8 10 KILOMETRES

SUKRU N. APAK
© NCPGG

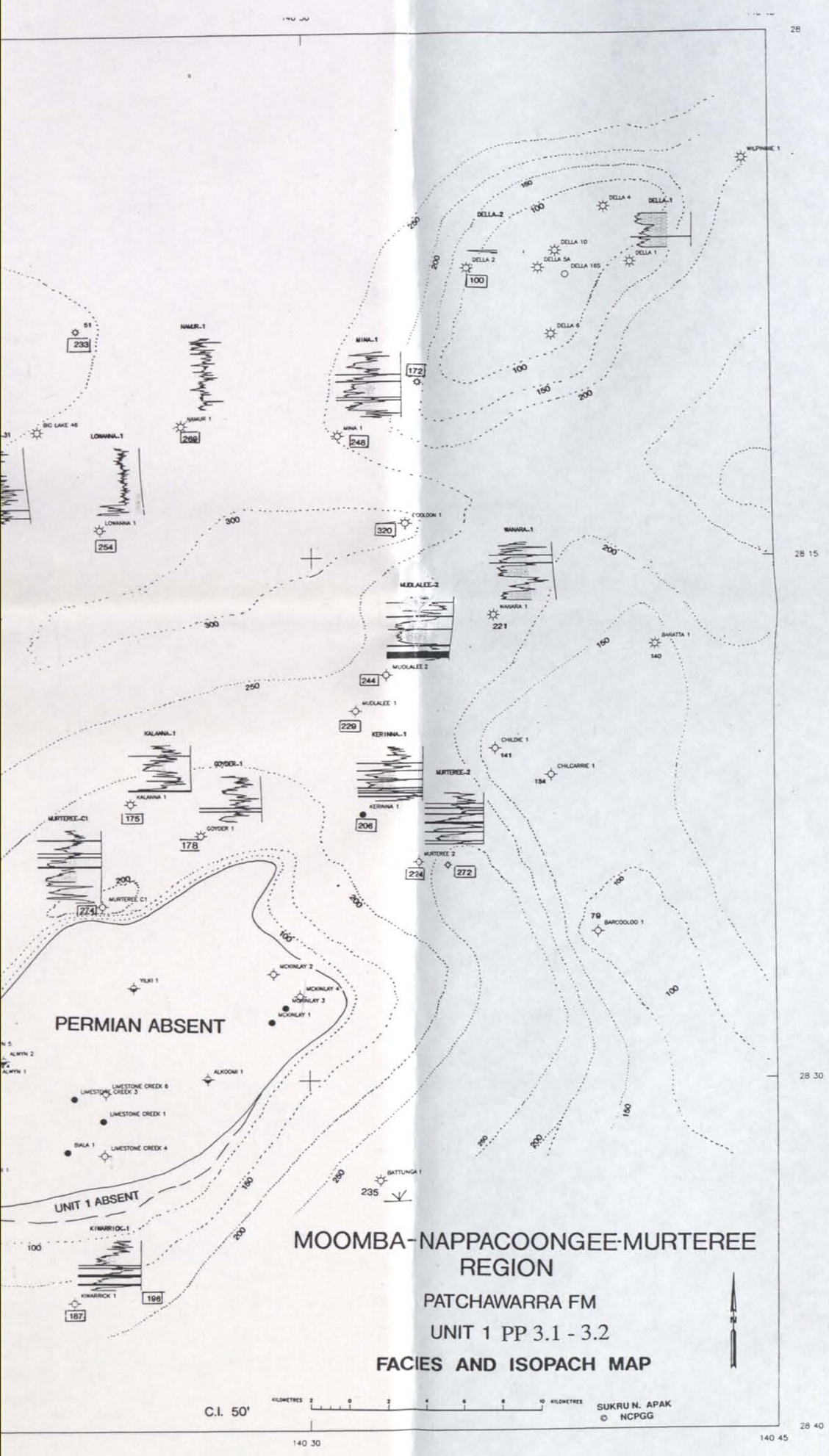
PATCHAWARRA ABSENT

UNIT 2 ABSENT

UNIT 1 ABSENT

PERMIAN

28
28 15
28 30
28 40
140 30
140 45
139 50
140
140 15



MOOMBA–NAPPACOONGEE–MURTEREE REGION

PATCHAWARRA FM

UNITS

FACIES & ISOPACH MAPS

MONTAGE

ENCLOSURE 2.7

UNIVERSITY OF ADELAIDE LIBRARY
090PH
A639
MAPS
c.2

139 50

140

140 15

28

28 15

GIDGEALPA 35

GIDGEALPA 5

GIDGEALPA 7

KURUNDA 1

MOORAN 1

MOOMBA 27

MOOMBA 26

MOOMBA NORTH 2

MOOMBA NORTH 1

MOOMBA 8

MUTEROO 1

KIRRALEE-1

120

UNIT 5 ABSENT

MOOMBA 9

MOOMBA 1

SPENCER 1

MOOMBA 17

MOOMBA 20

ARRAKIS NORTH 1

ARRAKIS 1

MOOMBA 11

MOOMBA 2

MOOMBA 10

KEENA 1

MOOMBA 21

MOOMBA 66

MOOMBA 45

BIG LAKE 46

LOWANNA-1

NAMUR 1

MOOMBA 18

BIG-LAKE-32

MOOMBA 19

BIG LAKE 32

51

MOOMBA 12

BIG-LAKE-33

BIG LAKE 17

BIG LAKE 29

BIG LAKE 31

LOWANNA 1

ATREIDES 1

MOOMBA 65

118

BIG LAKE 44

260

WIRRARIE 1

BIG LAKE 48

WOOLOO 1

POGONA 1

BIG LAKE 33

KARILLA 1

215

BIG LAKE 23

BIG LAKE 47

BIG LAKE 45

DARALINGIE 4

DARALINGIE 17

DARALINGIE 20

COWAN 1

KALANNA-1

YAPENI 1

YAPENI 2

DARALINGIE 7

BOBS WELL 1

DARALINGIE 10

WAUKATANNA 1

KALANNA 1

279

DARALINGIE 21

PINNA-1

GOYDER 1

DARALINGIE 18

DARALINGIE 2

100

200

300

400

500

140 15

28

MOOMBA 27

MOOMBA 26

MOOMBA NORTH 2

MOOMBA NORTH 1

MOOMBA 8

UNIT 5 ABSENT

MOOMBA 9

MOOMBA 1

MOOMBA 17

MOOMBA 20

MOOMBA 11

MOOMBA 10

MOOMBA 2

MOOMBA 21

MOOMBA 66

MOOMBA 45

MOOMBA 18

MOOMBA 19

MOOMBA 12

MOOMBA 65

BIG-LAKE-32

BIG LAKE 32

51

BIG-LAKE-33

BIG LAKE 17

BIG LAKE 29

BIG LAKE 31

118

BIG LAKE 44

BIG LAKE 48

BIG LAKE 33

215

BIG LAKE 23

BIG LAKE 47

BIG LAKE 45

BIG LAKE 46

LOWANNA-1

LOWANNA 1

260

NAMUR 1

MINA 1

WILPINNIE 1

DELLA 4

DELLA 10

DELLA 2

DELLA 5A

DELLA 16S

DELLA 1

DELLA 6

100

200

300

400

500

COOLOON 1

28 15

UNIT 5 ABSENT

WANARA 1

BARATTA 1

MUDLALEE 2

MUDLALEE 1

CHILDIE 1

CHILCARRIE 1

KERINNA 1

KALANNA-1

KALANNA 1

279

PINNA-1

GOYDER 1

0

KARILLA 1

DARALINGIE 4
DARALINGIE 17
DARALINGIE 20
COWAN 1

YAPENI 1
YAPENI 2
DARALINGIE 7
BOBS WELL 1
DARALINGIE 10
WAUKATANNA 1
DARALINGIE 21
DARALINGIE 18
DARALINGIE 2
DEINA 1

UNIT 5 ABSENT

THURAKINNA 3
THURAKINNA 4
KOREE 1
THURAKINNA 2
MANOOKA 1

215
200
BIG LAKE 23
BIG LAKE 47
BIG LAKE 45
300
400
KALANNA-1
KALANNA 1
279
100
200
GOYDER 1
0
PINNA-1
500
300
400
MURTEREE C1
MERINDA 1
600
YILKI 1
684
PINNA 1
PERMIAN ABSENT
BUNGEE 1
BUNGEE 2
ALWYN 5
ALWYN 2
ALWYN 4
ALWYN 1
100
CALAMIA WEST 1
LIMESTONE CREEK 6
LIMESTONE CREEK 3
ALKOOMI 1
LIMESTONE CREEK 1
JENA 1
BIALA 1
LIMESTONE CREEK 4
ULANDI 1
KIWARRICK 1

28 30

PANDRUANNIE 1
KUJANI 1
BOXWOOD 2
DIRKALA 2
DIRKALA 1
BOXWOOD 1
WANCOOCHA 1
GARANJANIE 2
GARANJANIE 3

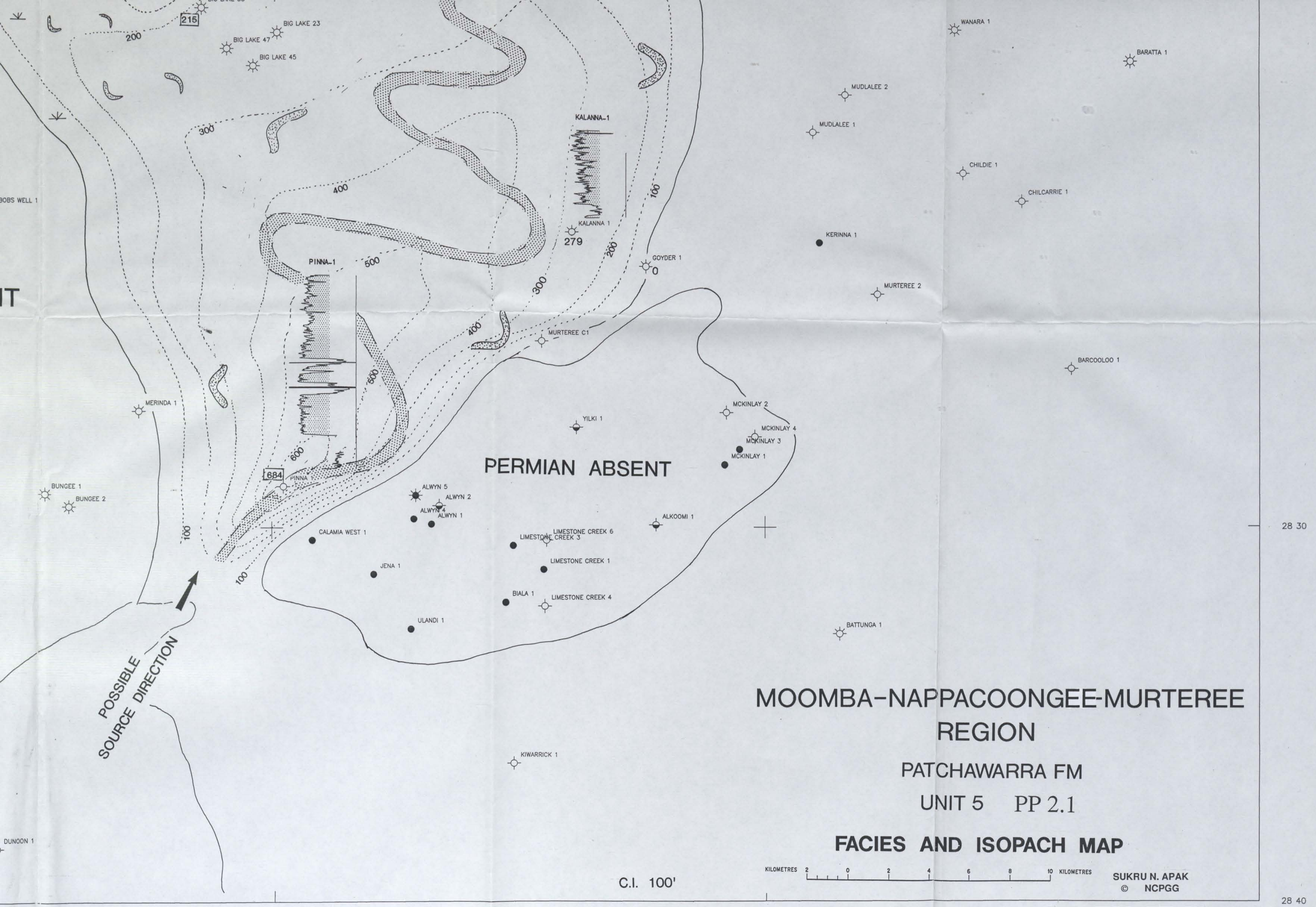
PATCHAWARRA ABSENT
PADULLA 1

POSSIBLE SOURCE DIRECTION

PATCHAWARRA ABSENT
DUNOON 1

C.I. 100'

28 40
139 50
140
140 15



MOOMBA–NAPPACOONGEE-MURTEREE REGION

PATCHAWARRA FM

UNIT 5 PP 2.1

FACIES AND ISOPACH MAP

C.I. 100'

SUKRU N. APAK
© NCPGG

ENCLOSURE 2.7a

090PH
A639
MAPS
c.2.
UNIVERSITY OF ADELAIDE LIBRARY

139 50 140 140 15

28 28 15

GIDGEALPA 35
GIDGEALPA 5
GIDGEALPA 7
MOOMBA-27
MOOMBA 27
193
58
1731
MOOMBA 26
MOOMBA NORTH 2
MOOMBA NORTH 1
UNIT 4 ABSENT
KURUNDA 1
MOORAN 1
300
200
100
MOOMBA-8
MOOMBA 8
7
MUTEROO 1
KIRRALEE -1
340
51
MOOMBA 9
MOOMBA 1
UNIT 4 ABSENT
MOOMBA 17
MOOMBA 20
MOOMBA 10
MOOMBA 11
MOOMBA 21
MOOMBA 66
MOOMBA 45
MOOMBA 2
BIG-LAKE-32
BIG-LAKE-31
BIG LAKE 46
NAMUR 1
LOWANNA-1
SPENCER 1
ARRAKIS NORTH 1
ARRAKIS 1
KEENA 1
MOOMBA 18
MOOMBA 19
MOOMBA 12
MOOMBA 65
BIG-LAKE-33
BIG LAKE 32
314
BIG LAKE 17
BIG LAKE 29
BIG LAKE 31
BIG LAKE 44
BIG LAKE 48
LOWANNA 1
216
BIG LAKE 33
290
BIG LAKE 23
BIG LAKE 47
BIG LAKE 45
ATREIDES 1
WIRRARIE 1
WOOLOO 1
POGONA 1
KARILLA 1
UNIT 4 ABSENT
DARALINGIE 4
DARALINGIE 17
DARALINGIE 20
COWAN 1
BOBS-WELL-1
246
YAPENI 1
YAPENI 2
DARALINGIE 7
BOBS WELL 1
156
WAUKATANNA 1
DARALINGIE 10
DARALINGIE 21
KALANNA-1
KALANNA 1
258
GOYDER-1
GOYDER 1

140 15

28

28 15

MBA-27

MOOMBA 27

193

58

173

MOOMBA 26

MOOMBA NORTH 2

MOOMBA NORTH 1

UNIT 4 ABSENT

300

200

100

7

MOOMBA-8

MOOMBA 8

MOOMBA 9

MOOMBA 1

MOOMBA 17

MOOMBA 20

MOOMBA 11

MOOMBA 10

MOOMBA 21

MOOMBA 2

MOOMBA 66

MOOMBA 45

MOOMBA 18

MOOMBA 19

MOOMBA 12

MOOMBA 65

UNIT 4 ABSENT

BIG-LAKE-32

BIG-LAKE-31

BIG-LAKE-33

BIG LAKE 46

BIG LAKE 32

314

BIG LAKE 17

BIG LAKE 29

BIG LAKE 31

BIG LAKE 44

BIG LAKE 48

BIG LAKE 33

290

BIG LAKE 23

BIG LAKE 47

BIG LAKE 45

LOWANNA-1

LOWANNA 1

216

51

NAMUR 1

MINA 1

UNIT 4 ABSENT

WILPINNIE 1

DELLA 4

DELLA 10

DELLA 2

DELLA 5A

DELLA 16S

DELLA 1

DELLA 6

COOLOON 1

360

WANARA-1

WANARA 1

36

BARATTA 1

MUDLALEE 2

MUDLALEE 1

53

CHILDIE 1

CHILCARRIE 1

BOBS-WELL-1

BOBS WELL 1

246

156

KALANNA-1

KALANNA 1

258

GOYDER-1

GOYDER 1

KERINNA-1

KERINNA 1

60

MURTEREE-2

UNIT 4 ABSENT

DARALINGIE 4
DARALINGIE 17
DARALINGIE 20
COWAN 1
YAPENI 1
YAPENI 2
DARALINGIE 7
DARALINGIE 10
DARALINGIE 21
DARALINGIE 18
DARALINGIE 2
DEINA 1
THURAKINNA 3
KOREE 1
THURAKINNA 4
THURAKINNA 2
MANOOKA 1
KUJANI 1
PANDRUANNIE 1
BOXWOOD 2
BOXWOOD 1
DIRKALA 2
DIRKALA 1
WANCOOCHA 1
GARANJANIE 2
GARANJANIE 3
PATCHAWARRA ABSENT
PADULLA 1
DUNOON 1
PATCHAWARRA ABSENT

BOBS-WELL-1
BOBS WELL 1
246
156
WAUKATANNA 1
200
MERINDA-1
MERINDA 1
191
VC COAL
BUNGEE-1
BUNGEE 1
193
BUNGEE 2
100
PINNA-1
PINNA 1
278
KALANNA-1
KALANNA 1
258
GOYDER-1
GOYDER 1
170
MURTEREE-C1
MURTEREE C1
56
YILKI 1
PERMIAN ABSENT
ALWYN 5
ALWYN 2
ALWYN 4
ALWYN 1
CALAMIA WEST 1
JENA 1
ALKOOMI 1
LIMESTONE CREEK 6
LIMESTONE CREEK 3
LIMESTONE CREEK 1
BIALA 1
LIMESTONE CREEK 4
ULANDI 1
KIWARRICK 1

28 30
28 40
139 50
140
140 15
C.I. 100'

BIG LAKE 45

BOBS-WELL-1

BOBS WELL 1

246

156

200

200

KALANNA-1

KALANNA 1

258

GOYDER-1

GOYDER 1

170

MURTEREE-C1

MURTEREE C1

56

MERINDA-1

MERINDA 1

191

COAL

BUNGEE-1

BUNGEE 1

193

BUNGEE 2

PINNA-1

PINNA 1

278

200

100

DUNOON 1

CALAMIA WEST 1

JENA 1

ALWYN 5

ALWYN 2

ALWYN 4

ALWYN 1

LIMESTONE CREEK 6

LIMESTONE CREEK 3

LIMESTONE CREEK 1

BIALA 1

LIMESTONE CREEK 4

ULANDI 1

KIWARRICK 1

100

200

200

100

YILKI 1

PERMIAN ABSENT

MCKINLAY 2

MCKINLAY 4

MCKINLAY 3

MCKINLAY 1

ALKOOMI 1

200

300

400

BARATTA 1

MUDLALEE 2

MUDLALEE 1

53

CHILDIE 1

CHILCARRIE 1

KERINNA-1

KERINNA 1

60

MURTEREE-2

MURTEREE 2

152

BARCOOLOO 1

BATTUNGA 1

468

MOOMBA-NAPPACOONGEE-MURTEREE REGION

PATCHAWARRA FM

UNIT 4 PP 2.2.1

FACIES AND ISOPACH MAP

KILOMETRES 2 0 2 4 6 8 10 KILOMETRES

C.I. 100'

SUKRU N. APAK

© NCPGG

28 30

28 40

140 15

140 30

140 45

ENCLOSURE 2.7b

090PH
A639
MAPS.
C.2

139 50 | 140 | 140 15

28 | 28 15

GIDGEALPA 35
GIDGEALPA 5
GIDGEALPA 7
KURUNDA 1
MOORAN 1
100

MOOMBA-27
MOOMBA 27
90
58
50
MOOMBA 26
MOOMBA NORTH 2
MOOMBA NORTH 1
MOOMBA-8
MOOMBA 8
49
7
200
100

MUTEROO 1
KIRRALEE-1
SPENCER 1
ARRAKIS NORTH 1
ARRAKIS 1
KEENA 1
ATREIDES 1
WIRRARIE 1
WOOLOO 1
POGONA 1
KARILLA 1

UNIT 3 ABSENT

MOOMBA 9
MOOMBA 1
MOOMBA 17
MOOMBA 20
MOOMBA 11
MOOMBA 10
MOOMBA 2
MOOMBA 21
MOOMBA 66
MOOMBA 45
MOOMBA 18
MOOMBA 19
MOOMBA 12
MOOMBA 65
100

BIG-LAKE-32
BIG-LAKE-31
BIG LAKE 46
BIG LAKE 32
201
BIG LAKE 17
BIG LAKE 29
BIG LAKE 31
129
BIG LAKE 44
208
BIG-LAKE-33
253
BIG LAKE 33
190
BIG LAKE 48
BIG LAKE 23
BIG LAKE 47
BIG LAKE 45

LOWANNA-1
LOWANNA 1
140
NAMUR 1
51
200

DARALINGIE 4
DARALINGIE 17
DARALINGIE 20
COWAN 1
DARALINGIE-18
DARALINGIE 7
YAPENI 1
YAPENI 2
DARALINGIE 10
DARALINGIE 21
DARALINGIE 15
DARALINGIE 2
DEINA 1

BOBS-WELL-1
BOBS WELL 1
WAUKATANNA 1
155
MERINDA-1
300

KALANNA-1
KALANNA 1
262
GOYDER-1
GOYDER 1
160
MURTEREE-C1

MOOMBA-27
MOOMBA 27
90
58
50
MOOMBA 26
MOOMBA NORTH 2
MOOMBA NORTH 1
MOOMBA-8
MOOMBA 8
49
7
200
100
MOOMBA 9
MOOMBA 1
MOOMBA 17
UNIT 3 ABSENT
MOOMBA 20
MOOMBA 11
MOOMBA 10
MOOMBA 2
MOOMBA 21
MOOMBA 66
MOOMBA 45
MOOMBA 18
MOOMBA 19
MOOMBA 12
MOOMBA 65
BIG-LAKE-32
BIG LAKE 32
201
BIG LAKE 17
BIG LAKE 29
BIG LAKE 31
129
BIG LAKE 44
208
BIG-LAKE-31
BIG-LAKE-33
253
BIG LAKE 33
190
BIG LAKE 48
BIG LAKE 23
BIG LAKE 47
BIG LAKE 45
51
200
BIG LAKE 46
LOWANNA-1
LOWANNA 1
140
100
NAMUR 1
MINA 1
UNIT 3 ABSENT
WILPINNIE 1
DELLA 4
DELLA 10
DELLA 2
DELLA 5A
DELLA 16S
DELLA 1
DELLA 6
COOLOON 1
316
300
WANARA 1
BARATTA 1
MUDLALEE 2
MUDLALEE 1
CHILDIE 1
CHILCARRIE 1
KERINNA 1
MURTEREE-2
MURTEREE 2
62
BOBS-WELL-1
BOBS WELL 1
155
KALANNA-1
KALANNA 1
262
GOYDER-1
GOYDER 1
160
MURTEREE-C1
MERINDA-1
PINNA-1
200
100
300

UNIT 3 ABSENT

KARILLA 1

DARALINGIE 4
DARALINGIE 17
DARALINGIE 20

COWAN 1

DARALINGIE-18

DARALINGIE 7

YAPENI 1
YAPENI 2

DARALINGIE 10

DARALINGIE 21

DARALINGIE 13
DARALINGIE 2

DEINA 1

THURAKINNA 3

THURAKINNA 4
THURAKINNA 2

KOREE 1

MANOOKA 1

BOBS-WELL-1

BOBS WELL 1

WAUKATANNA 1

155

190

BIG LAKE 23
BIG LAKE 47
BIG LAKE 45

200

KALANNA-1

KALANNA 1

262

MURTEREE-C1

228

MURTEREE C1

300

400

MERINDA-1

MERINDA 1

489

500

BUNGEE-1

BUNGEE 1

350

BUNGEE 2

PINNA-1

514

PINNA 1

YILKI 1

PERMIAN ABSENT

ALWYN 5
ALWYN 2
ALWYN 4
ALWYN 1

CALAMIA WEST 1

LIMESTONE CREEK 6
LIMESTONE CREEK 3
LIMESTONE CREEK 1
LIMESTONE CREEK 4

JENA 1

BIALA 1

ULANDI 1

KIWARRICK 1

UNIT 3 ABSENT

PANDRUANNIE 1

KUJANI 1

BOXWOOD 2
BOXWOOD 1

DIRKALA 2
DIRKALA 1

WANCOOCHA 1

GARANJANIE 2
GARANJANIE 3

PATCHAWARRA ABSENT

PADULLA 1

PATCHAWARRA ABSENT

DUNOON 1

28 30

28 40

139 50

140

140 15

BIG LAKE 23
BIG LAKE 47
BIG LAKE 45
190
BOBS-WELL-1
BOBS WELL 1
AUKATANNA 1
155
MERINDA-1
MERINDA 1
489
BUNGEE-1
BUNGEE 1
BUNGEE 2
350
RANJANIE 2
DUNOON 1
NT
PINNA-1
PINNA 1
514
ALWYN 5
ALWYN 2
ALWYN 4
ALWYN 1
CALAMIA WEST 1
JENA 1
ULANDI 1
KIWARRICK 1
KALANNA-1
KALANNA 1
262
GOYDER-1
GOYDER 1
160
MURTEREE-C1
MURTEREE C1
228
YILKI 1
PERMIAN ABSENT
UNIT 3 ABSENT
ALKOOMI 1
LIMESTONE CREEK 6
LIMESTONE CREEK 3
LIMESTONE CREEK 1
LIMESTONE CREEK 4
BIALA 1
MCKINLAY 2
MCKINLAY 4
MCKINLAY 3
MCKINLAY 1
WANARA 1
BARATTA 1
MUDLALEE 2
MUDLALEE 1
CHILDIE 1
CHILCARRIE 1
KERINNA 1
MURTEREE-2
MURTEREE 2
62
BARCOOLOO 1
BATTUNGA 1
146
300
200
100
400
500
28 30
28 40
140 15
140 30
140 45
C.I. 100'
KILOMETRES 2 0 2 4 6 8 10 KILOMETRES
SUKRU N. APAK
© NCPGG

MOOMBA-NAPPACOONGEE-MURTEREE REGION

PATCHAWARRA FM

UNIT 3 PP 2.2.2

FACIES AND ISOPACH MAP

ENCLOSURE 2.7c

090PM
A639
MAPS
c.2.

UNIVERSITY OF ADELAIDE LIBRARY

139 50

140

140 15

28

28 15

GIDGEALPA 5
70
GIDGEALPA 7
100
150
KURUNDA 1
200
200
MOORAN 1
163

MOOMBA-27
MOOMBA 27
190
200
MOOMBA-26
MOOMBA 26
204
266
58
MOOMBA NORTH 2
300
320
MOOMBA NORTH 1
MOOMBA-8
MOOMBA 8
139
200
200
250
194
MOOMBA-1

MUTEROO 1
44
ARRAKIS-NORTH-1
SPENCER 1
120
ARRAKIS NORTH 1
ARRAKIS 1
150
100
KEENA 1
62
MOOMBA 9
MOOMBA 17
MOOMBA 20
MOOMBA 11
MOOMBA 10
MOOMBA 21
MOOMBA 66
MOOMBA 45
MOOMBA 18
MOOMBA 19
MOOMBA 12
MOOMBA 65
MOOMBA-2
MOOMBA 2
245
BIG-LAKE-32
BIG-LAKE-33
BIG-LAKE-31
BIG LAKE 32
238
BIG LAKE 46
LOWANNA-1
NAMUR-1
51
405
300
400
LOWANNA 1
BIG LAKE 17
BIG LAKE 29
303
BIG LAKE 31
BIG LAKE 44
299
BIG LAKE 33
330
BIG LAKE 48
BIG LAKE 23
BIG LAKE 47
BIG LAKE 45
400

ATREIDES 1
WIRRARIE 1
WOOLOO 1
POGONA 1
100
KARILLA 1
UNIT 2 ABSENT
DARALINGIE 4
DARALINGIE 17
DARALINGIE 20
COWAN 1
150
BOBS-WELL-1
BOBS WELL 1
312
KALANNA-1
KALANNA 1
345
GOYDER-1
GOYDER 1
242
YAPENI 1
YAPENI 2
DARALINGIE-18
DARALINGIE 7
DARALINGIE 10
DARALINGIE 21
DARALINGIE 18
DARALINGIE 2
DEINA 1
WAUKATANNA 1
262
MERINDA-1
MURTEREE-C1

140 15

140 30

28

28 15

MOOMBA-27

MOOMBA 27

190

MOOMBA-26

MOOMBA 26

204

266

58

MOOMBA NORTH 2

MOOMBA NORTH 1

320

300

200

MOOMBA-8

MOOMBA 8

139

194

MOOMBA-1

250

MOOMBA 9

MOOMBA 1

245

MOOMBA-2

MOOMBA 17

MOOMBA 20

MOOMBA 11

MOOMBA 10

MOOMBA 21

MOOMBA 2

BIG-LAKE-32

MOOMBA 66

MOOMBA 45

MOOMBA 18

MOOMBA 19

MOOMBA 12

MOOMBA 65

BIG-LAKE-33

BIG LAKE 32

238

BIG LAKE 17

BIG LAKE 29

BIG LAKE 31

303

BIG LAKE 44

BIG-LAKE-31

BIG LAKE 46

299

BIG LAKE 33

330

BIG LAKE 48

BIG LAKE 23

BIG LAKE 47

BIG LAKE 45

400

300

BOBS-WELL-1

312

BOBS WELL 1

ATANNA 1

51

405

NAMUR-1

400

NAMUR 1

LOWANNA-1

LOWANNA 1

MINA-1

MINA 1

COOLOON 1

DELLA-2

DELLA 2

WILPINNIE 1

DELLA-1

DELLA 4

0

DELLA 10

DELLA 5A

DELLA 16S

DELLA 1

100

150

DELLA 6

170

200

250

WANARA-1

205

WANARA 1

BARATTA 1

MUDLALEE 2

MUDLALEE 1

106

KALANNA-1

KALANNA 1

345

GOYDER-1

GOYDER 1

242

KERINNA-1

KERINNA 1

138

CHILDIE 1

CHILCARRIE 1

MURTEREE-2

MURTEREE 2

MURTEREE-C1

UNIT 2 ABSENT

KARILLA 1

DARALINGIE 4
DARALINGIE 17
DARALINGIE 20

COWAN 1

YAPENI 1
YAPENI 2

DARALINGIE-18

DARALINGIE 7

DARALINGIE 10
DARALINGIE 21

DARALINGIE 19
DARALINGIE 2

DEINA 1

WAUKATANNA 1

262

312

BOBS WELL 1

BOBS-WELL-1

THURAKINNA-3

THURAKINNA 3
THURAKINNA 4
THURAKINNA 2

KOREE 1

MANOOKA 1

DIRKALA-1

BUNGEE 1
BUNGEE 2

322

PINNA 1

283

330

BIG LAKE 23
BIG LAKE 47
BIG LAKE 45

KALANNA-1

KALANNA 1

345

GOYD

MURTEREE-C1

GOYDER

242

MURTEREE C1

232

MERINDA-1

MERINDA 1

295

BUNGEE-1

PINNA-1

YILKI 1

PERMIAN ABSENT

ALWYN 5
ALWYN 2
ALWYN 4
ALWYN 1

CALAMIA WEST 1

LIMESTONE CREEK 6
LIMESTONE CREEK 3
LIMESTONE CREEK 1
LIMESTONE CREEK 4

JENA 1

BIALA 1

ULANDI 1

ALKOO

KIWARRICK-1

KIWARRICK 1

100
150
200
250
300
350
400

28 30

PANDRUANNIE 1

BOXWOOD 2
BOXWOOD 1

UNIT 2 ABSENT

KUJANI 1

WANCOOCHA 1

DIRKALA
DIRKALA 1

225

GARANJANIE 2
GARANJANIE 3

PATCHAWARRA ABSENT

PADULLA 1

DUNOON 1

PATCHAWARRA ABSENT

28 40

139 50

140

140 15

C.I.

BOBS-WELL-1

BOBS WELL 1

312

KATANNA 1

BIG LAKE 33

330

BIG LAKE 23

BIG LAKE 47

BIG LAKE 45

400

400

MERINDA-1

MERINDA 1

295

350

BUNGEE-1

BUNGEE 1

322

BUNGEE 2

360

ANJANIE 2

300

200

150

100

PINNA-1

PINNA 1

283

KALANNA-1

KALANNA 1

345

GOYDER-1

GOYDER 1

242

MURTEREE-C1

MURTEREE C1

232

PERMIAN ABSENT

YILKI 1

ALWYN 5

ALWYN 2

ALWYN 4

ALWYN 1

CALAMIA WEST 1

JENA 1

ULANDI 1

LIMESTONE CREEK 6

LIMESTONE CREEK 3

LIMESTONE CREEK 1

BIALA 1

LIMESTONE CREEK 4

ALKOOMI 1

KIWARRICK-1

KIWARRICK 1

DUNOON 1

MCKINLAY 2

MCKINLAY 4

MCKINLAY 3

MCKINLAY 1

BATTUNGA 1

270

MUDLALEE 2

0

MUDLALEE 1

106

100

200

150

KERINNA-1

KERINNA 1

138

MURTEREE-2

MURTEREE 2

173

CHILDIE 1

CHILCARRIE 1

205

WANARA 1

BARATTA 1

200

150

100

BARCOOLOO 1

UNIT 2 ABSENT

MOOMBA-NAPPACOONGEE-MURTEREE REGION

PATCHAWARRA FM

UNIT 2 PP 2.2.3

FACIES AND ISOPACH MAP

KILOMETRES 2 0 2 4 6 8 10 KILOMETRES

C.I. 50'

SUKRU N. APAK

© NCPGG

28 30

28 40

140 15

140 30

140 45

ENCLOSURE 2.7d

090PH
A639
MAPS
c.2.
UNIVERSITY OF ADELAIDE LIBRARY

139 50 | 140 | 140 15

28 | 28 15

GIDGEALPA 5
GIDGEALPA 7
100
63
KURUNDA 1
154
150
MOORAN 1
130
MUTEROO 1
140
SPENCER 1
120
ARRAKIS-NORTH-1
ARRAKIS NORTH 1
183
ARRAKIS 1
KEENA 1
131
ATREIDES-1
ATREIDES 1
WIRRARIE 1
TOPWEE-1
92
59
WOOLOO 1
POGONA 1
180
KARILLA 1
DARALINGIE-4
201
DARALINGIE 4
DARALINGIE 17
DARALINGIE 20
COWAN 1
YAPENI 1
YAPENI 2
DARALINGIE-18
DARALINGIE 7
DARALINGIE-21
156
DARALINGIE 10
DARALINGIE 21
DARALINGIE 18
DARALINGIE 2
THURAKINNA-3
300
BOBS-WELL-1
BOBS WELL 1
230
YALCUMMA-1
234
WAUKATANNA 1
250
MOOMBA-27
MOOMBA 27
270
MOOMBA-26
MOOMBA 26
241
MOOMBA NORTH 2
MOOMBA NORTH 1
250
200
246
56
MOOMBA-8
59
280
MOOMBA 8
282
61
MOOMBA-1
MOOMBA 1
225
200
MOOMBA 9
MOOMBA-2
MOOMBA 17
MOOMBA 20
MOOMBA 11
MOOMBA 10
MOOMBA 21
MOOMBA 2
140
MOOMBA 66
MOOMBA 45
MOOMBA 18
MOOMBA 19
MOOMBA 12
MOOMBA 65
BIG-LAKE-32
BIG LAKE 32
BIG-LAKE-31
BIG LAKE 46
BIG-LAKE-33
200
BIG LAKE 17
BIG LAKE 29
BIG LAKE 31
263
292
BIG LAKE 44
221
BIG LAKE 48
BIG LAKE 33
301
300
BIG LAKE 23
BIG LAKE 47
BIG LAKE 45
51
233
NAMUR-1
NAMUR 1
269
LOWANNA-1
LOWANNA 1
254
300
KALANNA-1
KALANNA 1
175
GOYDER-1
GOYDER 1
MURTEREE-C1

MOOMBA-27
MOOMBA 27
270
MOOMBA-26
MOOMBA 26
241
MOOMBA NORTH 2
MOOMBA NORTH 1
250
200
246
56
MOOMBA-8
59
280
MOOMBA 8
61
282
MOOMBA-1
MOOMBA 1
225
51
233
MOOMBA 9
MOOMBA-2
MOOMBA 2
140
MOOMBA 17
MOOMBA 20
MOOMBA 11
MOOMBA 10
MOOMBA 21
MOOMBA 66
MOOMBA 45
MOOMBA 18
MOOMBA 19
MOOMBA 12
MOOMBA 65
BIG-LAKE-32
BIG LAKE 32
BIG LAKE 17
BIG LAKE 29
BIG LAKE 31
263
292
BIG LAKE 44
BIG LAKE 46
BIG-LAKE-31
BIG-LAKE-33
221
BIG LAKE 33
301
BIG LAKE 48
BIG LAKE 23
BIG LAKE 47
BIG LAKE 45
300
200
LOWANNA-1
LOWANNA 1
254
NAMUR-1
NAMUR 1
269
MINA-1
MINA 1
248
172
WILPINNIE 1
150
100
DELLA-2
DELLA 4
DELLA-1
DELLA 10
DELLA 2
DELLA 5A
DELLA 16S
DELLA 1
100
DELLA 6
COOLOON 1
320
WANARA-1
WANARA 1
221
MUDLALEE-2
MUDLALEE 2
244
MUDLALEE 1
229
BARATTA 1
140
BOBS-WELL-1
BOBS WELL 1
230
YALCUMMA-1
234
KALANNA-1
KALANNA 1
175
GOYDER-1
GOYDER 1
MURTEREE-C1
KERINNA-1
KERINNA 1
206
MURTEREE-2
CHILDIE 1
141
CHILCARRIE 1
134
28 15

KARILLA 1

DARALINGIE-4

59

180

100

150

201

DARALINGIE 4

DARALINGIE 17

DARALINGIE 20

COWAN 1

100

DARALINGIE-21

DARALINGIE 7

DARALINGIE-18

YAPENI 1

YAPENI 2

156

DARALINGIE 10

DARALINGIE 21

DARALINGIE 18

DARALINGIE 2

176

DEINA 1

195

200

BOBS-WELL-1

YALCUMMA-1

BOBS WELL 1

230

234

WAUKATANNA 1

250

THURAKINNA-3

300

THURAKINNA 3

316

THURAKINNA 4

THURAKINNA 2

KOREE 1

300

150

100

MANOOKA 1

142

KUJANI 1

DIRKALA-1

DIRKALA 2

DIRKALA 1

206

WANCOOCHA 1

200

GARANJANIE 2

GARANJANIE 3

100

PATCHAWARRA ABSENT

PADULLA 1

MERINDA-1

MERINDA 1

231

250

BUNGEE-1

BUNGEE 1

192

BUNGEE 2

200

150

100

DUNOON 1

PATCHAWARRA ABSENT

BIG LAKE 33

301

BIG LAKE 23

BIG LAKE 47

BIG LAKE 45

300

KALANNA-1

KALANNA 1

175

GOYDER

GOYDER 1

178

MURTEREE-C1

MURTEREE C1

274

200

PINNA-1

PINNA 1

180

YILKI 1

PERMIAN ABSENT

ALWYN 5

ALWYN 2

ALWYN 4

ALWYN 1

CALAMIA WEST 1

LIMESTONE CREEK 6

LIMESTONE CREEK 3

LIMESTONE CREEK 1

JENA 1

BIALA 1

LIMESTONE CREEK 4

ULANDI 1

ALKOOMI

UNIT 1 ABSENT

KIWARRICK-1

100

KIWARRICK 1

196

187

100

150

100

C.I. 50

28 30

28 40

139 50

140

140 15

BIG LAKE 33
BIG LAKE 23
BIG LAKE 47
BIG LAKE 45
BOBS-WELL-1
BOBS WELL 1
YALCUMMA-1
234
230
MERINDA-1
MERINDA 1
231
BUNGEE-1
BUNGEE 1
BUNGEE 2
192
PINNA-1
PINNA 1
180
CALAMIA WEST 1
JENA 1
ULANDI 1
ALWYN 5
ALWYN 2
ALWYN 4
ALWYN 1
YILKI 1
KALANNA-1
KALANNA 1
175
GOYDER-1
GOYDER 1
178
MURTEREE-C1
MURTEREE C1
274
MCKINLAY 2
MCKINLAY 4
MCKINLAY 3
MCKINLAY 1
LIMESTONE CREEK 6
LIMESTONE CREEK 3
LIMESTONE CREEK 1
LIMESTONE CREEK 4
BIALA 1
KIWARRICK-1
KIWARRICK 1
196
187
ALKOOMI 1
MUDLALEE-2
MUDLALEE 2
244
MUDLALEE 1
229
KERINNA-1
KERINNA 1
206
MURTEREE-2
MURTEREE 2
224
272
WANARA 1
221
BARATTA 1
140
CHILDIE 1
141
CHILCARRIE 1
134
BARCOOLOO 1
79
BATTUNGA 1
235
DUNOON 1
JANIE 2
PERMIAN ABSENT
UNIT 1 ABSENT
200
250
300
150
100
C.I. 50'
KILOMETRES 2 0 2 4 6 8 10 KILOMETRES
SUKRU N. APAK
© NCPGG
140 15
140 30
140 45
28 30
28 40

MOOMBA–NAPPACOONGEE-MURTEREE REGION

PATCHAWARRA FM

UNIT 1 PP 3.1 - 3.2

FACIES AND ISOPACH MAP

ENCLOSURE 2.7e

090PH
A634
MAPS
c.2.

UNIVERSITY OF ADELAIDE LIBRARY

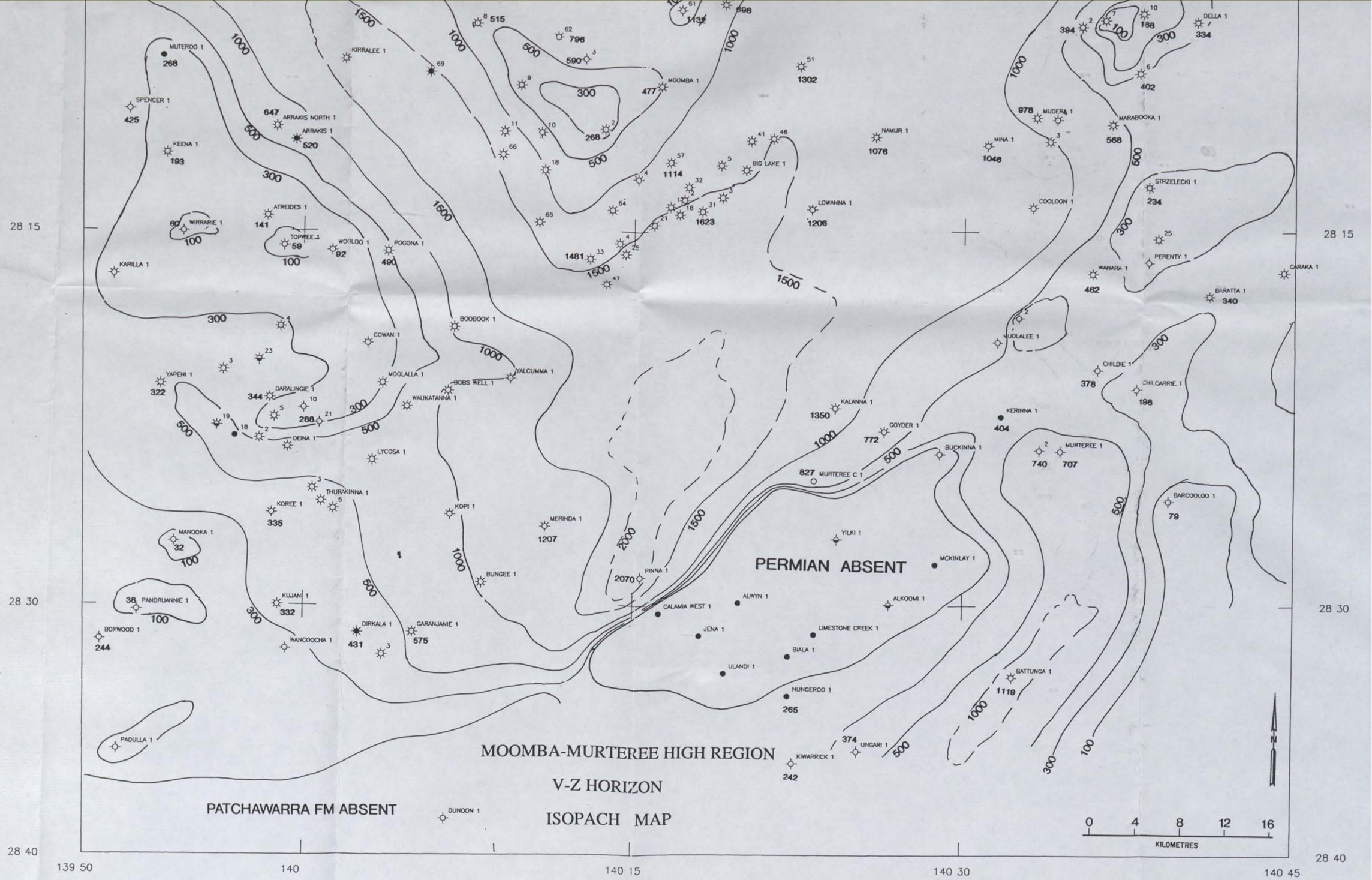
139 50 140 140 15 140 30 140 45

28 28

28 15 28 15

28 30 28 30

317 40 43 27 RIDGEALPA 23 513 680 581 944 27 6 63 58 9 26 2 446 POORAKA 1 3 542 MAWSON 1 1111 KURUNDA 1 MOORAN 1 1196+ 1092+ 1146 56 60 1262 50 780 MOOMBA NORTH 1 59 1000 1000 51 1134 7 698 8 515 62 796 1500 1000 1000 KIRRALEE 1 69 500 590 3 MOOMBA 1 477 1302 MUTEROO 1 268 9 300 268 2 11 10 66 18 500 4 1114 57 5 BIG LAKE 1 41 46 1623 32 12 18 31 64 65 21 1481 33 25 1500 47 1500 1000 394 2 1 100 10 188 300 334 DELLA 1 6 402 978 MUDERA 1 3 MARABOOKA 1 568 SPENCER 1 425 647 ARRAKIS NORTH 1 ARRAKIS 1 520 KEENA 1 193 NAMUR 1 1076 MINA 1 1046 500 STRZELECKI 1 234 ATREIDES 1 141 WIRRARIE 1 60 100 TOPWEE 1 59 100 WOOLOO 1 92 POGONA 1 490 COOLOON 1 LOWANNA 1 1206 300 25 PERENTY 1 KARILLA 1 WANARA 1 462 CARAKA 1 BARATTA 1 340 300 BOOBOOK 1 1000 COWAN 1 4 MUDLALEE 1 2 CHILDIE 1 378 CHILCARRIE 1 198 YAPENI 1 322 3 23 DARALINGIE 1 344 MOOLALLA 1 BOBS WELL 1 YALCUMMA 1 WAUKATANNA 1 5 10 288 21 19 18 2 DEINA 1 300 500 500 KALANNA 1 1350 KERINNA 1 404 GOYDER 1 772 BUCKINNA 1 MURTEREE 1 2 740 707 LYCOSA 1 827 MURTEREE C 1 3 THURAKINNA 1 5 KOREE 1 335 KOPI 1 MERINDA 1 1207 BARCOOLOO 1 79 MANOOKA 1 32 100 YILKI 1 1500 2000 PERMIAN ABSENT MCKINLAY 1 PINNA 1 2070 BUNGEE 1 38 PANDRUANNIE 1 100 KUJANI 1 332 ALWYN 1 ALKOOMI 1 CALAMIA WEST 1 DIRKALA 1 GARANJANIE 1 JENA 1 LIMESTONE CREEK 1 BOXWOOD 1


MOOMBA-MURTEREE HIGH REGION
V-Z HORIZON
ISOPACH MAP
PERMIAN ABSENT
PATCHAWARRA FM ABSENT
MUTEROO 1
KIRRALEE 1
SPENCER 1
ARRAKIS NORTH 1
ARRAKIS 1
KEENA 1
WIRRARIE 1
ATREIDES 1
TOPWEE 1
WOOLOO 1
POGONA 1
KARILLA 1
BOOBOOK 1
COWAN 1
YAPENI 1
DARALINGIE 1
MOOLALLA 1
BOBS WELL 1
YALCUMMA 1
WAUKATANNA 1
DEINA 1
LYCOSA 1
THURAKINNA 1
KOREE 1
KOPI 1
MERINDA 1
MANOOKA 1
BUNGEE 1
PANDRUANNIE 1
BOXWOOD 1
KUJANI 1
WANCOOCHA 1
DIRKALA 1
GARANJANIE 1
PADULLA 1
DUNOON 1
MOOMBA 1
BIG LAKE 1
NAMUR 1
LOWANNA 1
MINA 1
COOLOON 1
MUDERA 1
MARABOOKA 1
STRZELECKI 1
PERENTY 1
WANARA 1
BARATTA 1
CARAKA 1
DELLA 1
MUDLALEE 1
CHILDIE 1
CHILCARRIE 1
KERINNA 1
MURTEREE 1
BARCOOLOO 1
KALANNA 1
GOYDER 1
BUCKINNA 1
MURTEREE C 1
YILKI 1
PINNA 1
CALAMIA WEST 1
ALWYN 1
JENA 1
ULANDI 1
MCKINLAY 1
ALKOOMI 1
LIMESTONE CREEK 1
BIALA 1
NUNGEROO 1
KIWARRICK 1
UNGARI 1
BATTUNGA 1
28 15
28 30
28 40
139 50
140
140 15
140 30
140 45
0 4 8 12 16
KILOMETRES
N

139 50
140
140 15
140 30
140 45
28
28 15
28 30
EPSILON FM
LIMIT DARALINGIE FM
PATCHAWARRA FM
DARALINGIE FM
LIMIT ROSENEATH SH
MURTEREE SH
PRE-PERMIAN
MUTEROO 1
SPENCER 1
KEENA 1
KIRRALEE 1
ARRAKIS NORTH 1
ARRAKIS 1
ATREIDES 1
WIRRARIE 1
TOPHEE 1
WOOLOO 1
POGONA 1
KARILLA 1
MOOMBA 1
MOOMBA NORTH 1
BIG LAKE 1
LOWANNA 1
COOLOON 1
MUDERA 1
MARABOOKA 1
NAMUR 1
MINA 1
STRZELECKI 1
PERENTY 1
WANARA 1
CARAKA 1
BARATTA 1
MUDLALEE 1
CHILDIE 1
CHILCARRIE 1
KERINNA 1
BUCKINNA 1
MURTEREE 1
MURTEREE C 1
BARCOOLOO 1
GOYDER 1
KALANNA 1
YILKI 1
MCKINLAY 1
ALKOOMI 1
LIMESTONE CREEK 1
PINNA 1
CALAMIA WEST 1
ALWYN 1
BUNGEE 1
KUJANI 1
PANDRUANNIE 1
DIRKALA 1
GARANJANIE 1
MANOOKA 1
KOREE 1
THURAKINNA 1
KOPI 1
MERINDA 1
LYCOSA 1
DEINA 1
DARALINGIE 1
YAPENI 1
MOOLALLA 1
BOBS WELL 1
WAUKATANNA 1
YALCUMMA 1
COWAN 1
BOOBOOK 1
MAWSON 1
KURUNDA 1
MOORARI 1
RIDGEALPA 23
DELLA 1
POORAKA 1

MOOMBA-MURTEREE HIGH REGION
DARALINGIE UNCONFORMITY
SUBCROP MAP

PATCHAWARRA FM
LIMIT DARALINGIE FM
MURTEREE SH
PRE-PERMIAN
DARALINGIE FM
EPSILON FM
LIMIT ROSENEATH SH
PRE-PERMIAN
PRE-PERMIAN
EPSILON FM
PRE-PERMIAN
PRE-PERMIAN

MUTEROO 1
KIRRALEE 1
SPENCER 1
ARRAKIS NORTH 1
ARRAKIS 1
KEENA 1
MOOMBA 1
ATREIDES 1
WIRRARIE 1
TOPWEE 1
WOOLOO 1
POGONA 1
KARILLA 1
BIG LAKE 1
LOWANNA 1
NAMUR 1
MINA 1
MUDERA 1
MARABOOKA 1
STRZELECKI 1
COOLOON 1
WANARA 1
PERENTY 1
CANAKA 1
BARATTA 1
MUDLALEE 1
BOOBOOK 1
COWAN 1
YAPENI 1
DARALINGIE 1
MOOLALLA 1
BOBS WELL 1
YALCUMMA 1
WAUKATANNA 1
DEINA 1
LYCOSA 1
THURAKINNA 1
KOREE 1
KOPI 1
MERINDA 1
MANOOKA 1
CHILDIE 1
CHILCARRIE 1
KALANNA 1
GOYDER 1
KERINNA 1
BUCKINNA 1
MURTEREE 1
MURTEREE S 1
BARCOOLOO 1
YILKI 1
MCKINLAY 1
BUNGEE 1
PINNA 1
KUJANI 1
PANDRUANNIE 1
BOXWOOD 1
WANCOOCHA 1
DIRKALA 1
GARANJANIE 1
CALAMIA WEST 1
ALWYN 1
ALKOOMI 1
JENA 1
LIMESTONE CREEK 1
BIALA 1
ULANDI 1
NUNGEROO 1
KIWARRICK 1
UNGARI 1
PADULLA 1
DUNOON 1

Limit Daralingie Fm
Limit Roseneath Shale
Limit Epsilon Fm

0 4 8 12 16
KILOMETRES

28 15
28 30
28 40
139 50
140
140 15
140 30
140 45

139 50 140 140 15 140 30 140 45

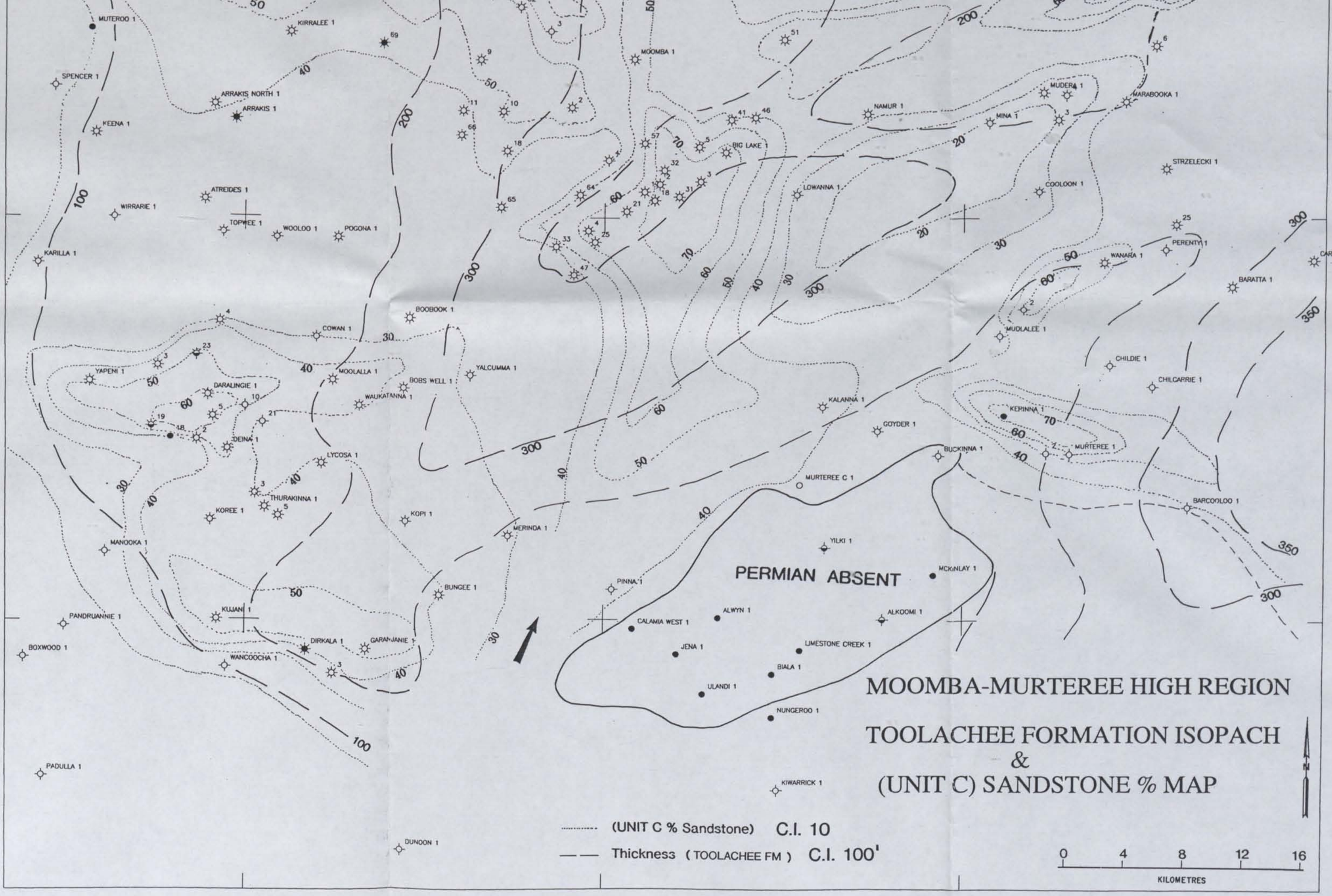
28 28

28 15 28

28 30

PERMIAN ABSENT

MAWSON 1
EDGEALPA 23
KURUNDA 1
MOORAN 1
MUTEROO 1
KIRRALEE 1
SPENCER 1
ARRAKIS NORTH 1
ARRAKIS 1
KEENA 1
ATREIDES 1
WIRRARIE 1
TOPWEE 1
WOOLOO 1
POGONA 1
KARILLA 1
MOOMBA NORTH 1
MOOMBA 1
BIG LAKE 1
LOWANNA 1
NAMUR 1
MINA 1
MUDERA 1
MARABOOKA 1
POORAKA 1
DELLA 1
STRZELECKI 1
COOLOON 1
PERENTY 1
WANARA 1
CARAKA 1
BARATTA 1
MUDLALEE 1
CHILDIE 1
CHILCARRIE 1
KERINNA 1
MURTEREE 1
BUCKINNA 1
GOYDER 1
KALANNA 1
MURTEREE C 1
BARCOOLOO 1
BOOBOOK 1
COWAN 1
YAPENI 1
DARALINGIE 1
DEINA 1
MOOLALLA 1
BOBS WELL 1
WAUKATANNA 1
YALCUMMA 1
LYCOSA 1
THURAKINNA 1
KOREE 1
KOPI 1
MERINDA 1
MANOOKA 1
BUNGEE 1
KUJANI 1
PANDRUANNIE 1
DIRKALA 1
YILKI 1
PINNA 1
CALAMIA WEST 1
ALWYN 1
MCKINLAY 1
ALKOOMI 1



MOOMBA-MURTEREE HIGH REGION

TOOLACHEE FORMATION ISOPACH & (UNIT C) SANDSTONE % MAP

(UNIT C % Sandstone) C.I. 10

Thickness (TOOLACHEE FM) C.I. 100'

MOOMBA–MURTEREE HIGH REGION

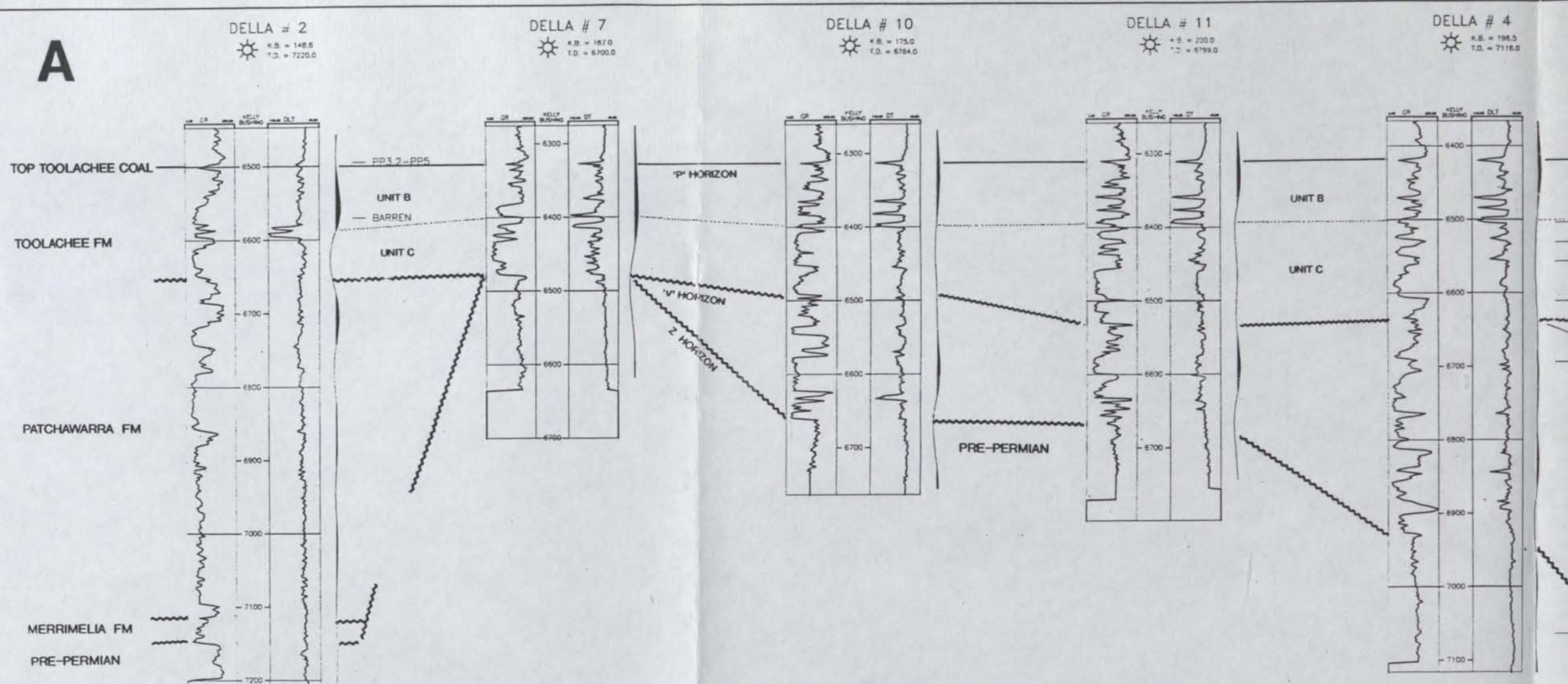
ISOPACH & SUBCROP MAPS MONTAGE

ENCLOSURE 2.8

090PH
A639
MAPS
c.2

UNIVERSITY OF ADELAIDE LIBRARY

A



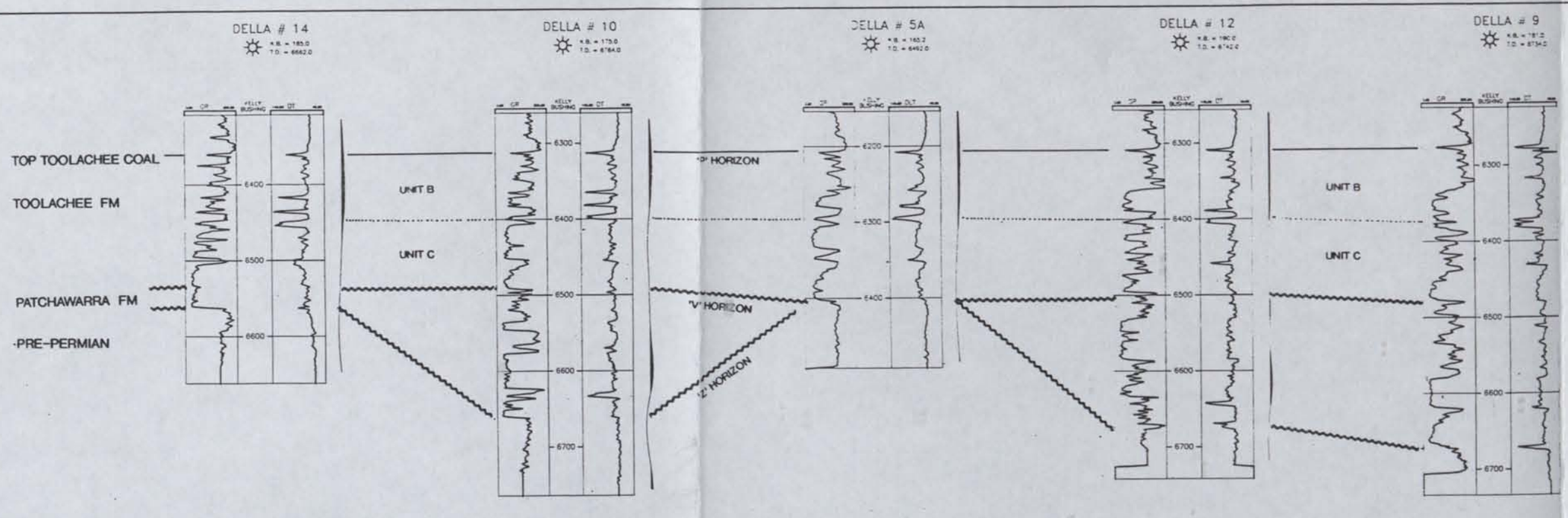
STRATIGRAPHIC CROSS-SECTION

A–A'

(DELLA-2 to DELLA-3)

H.S : Diagramatic

B

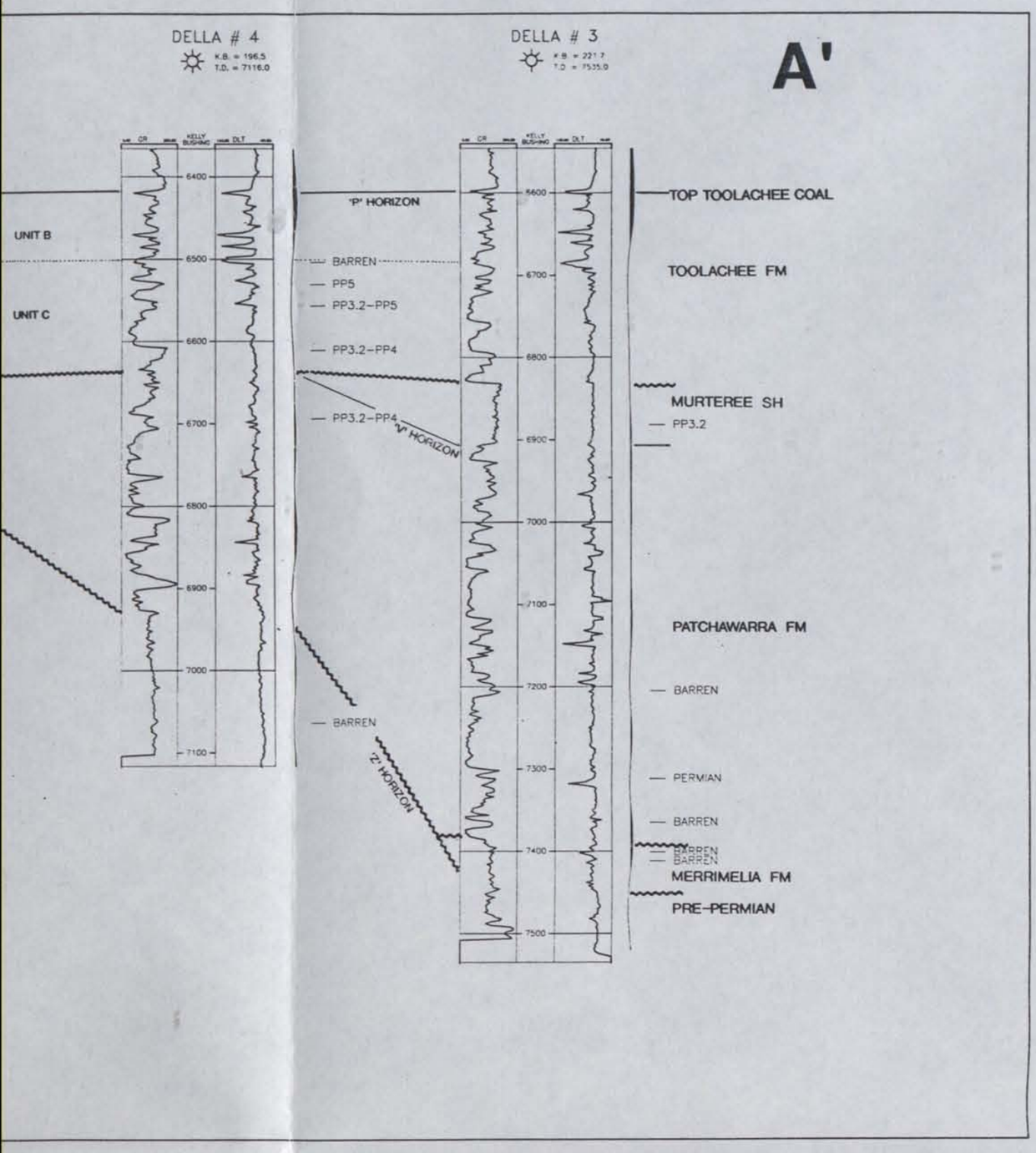


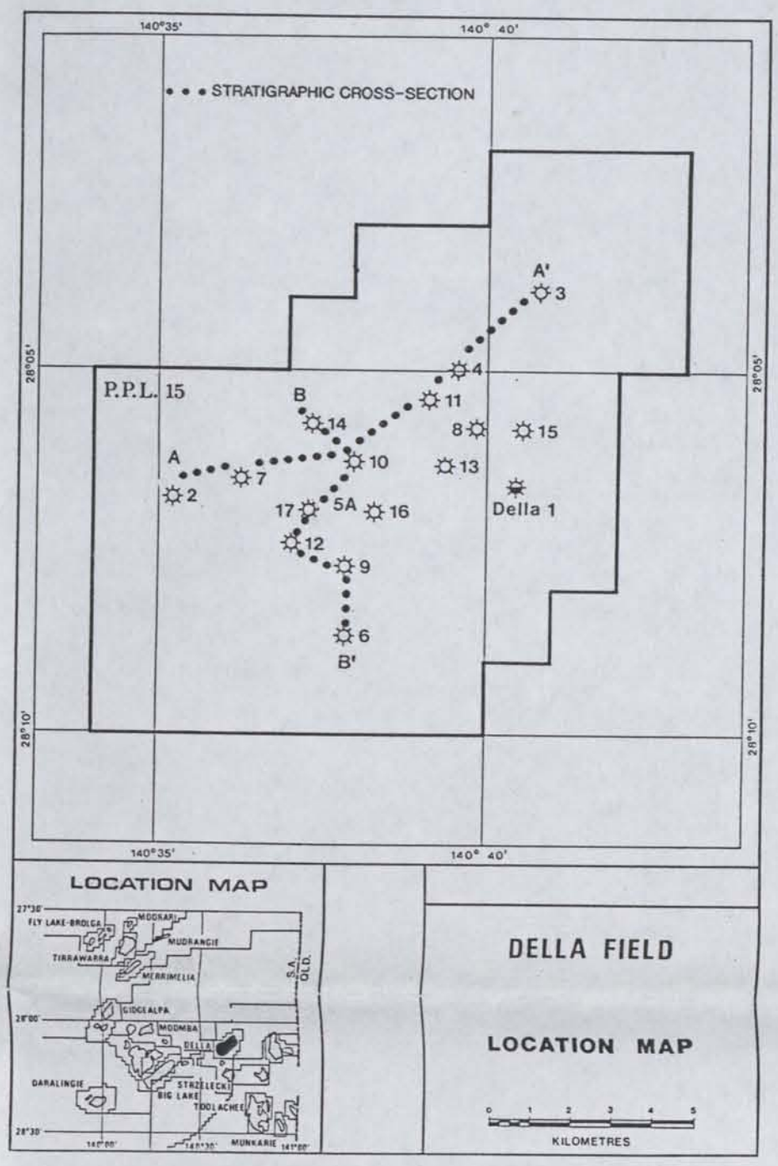
STRATIGRAPHIC CROSS-SECTION

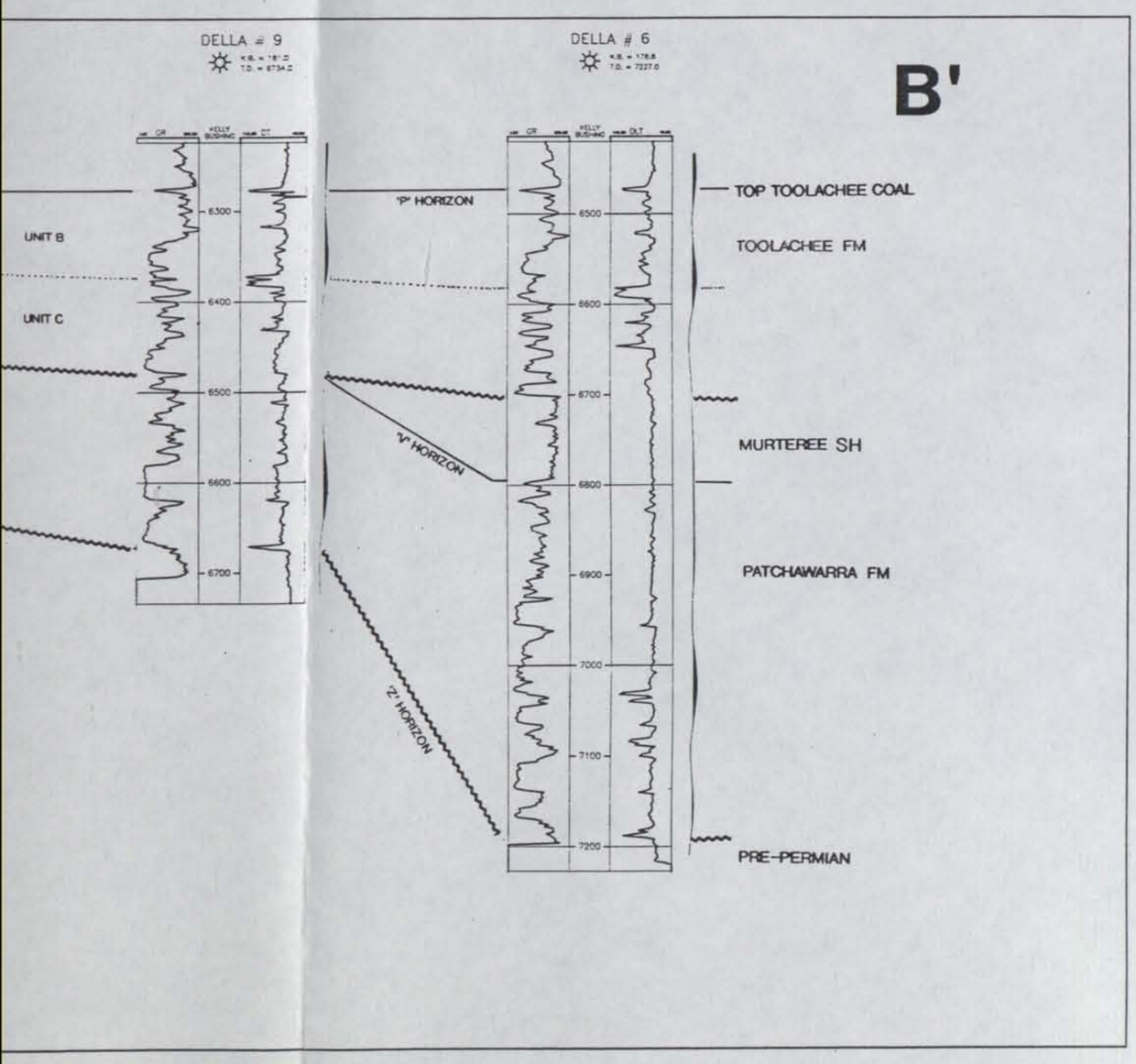
B–B'

(DELLA-14 to DELLA-6)

H.S : Diagramatic







DELLA FIELD

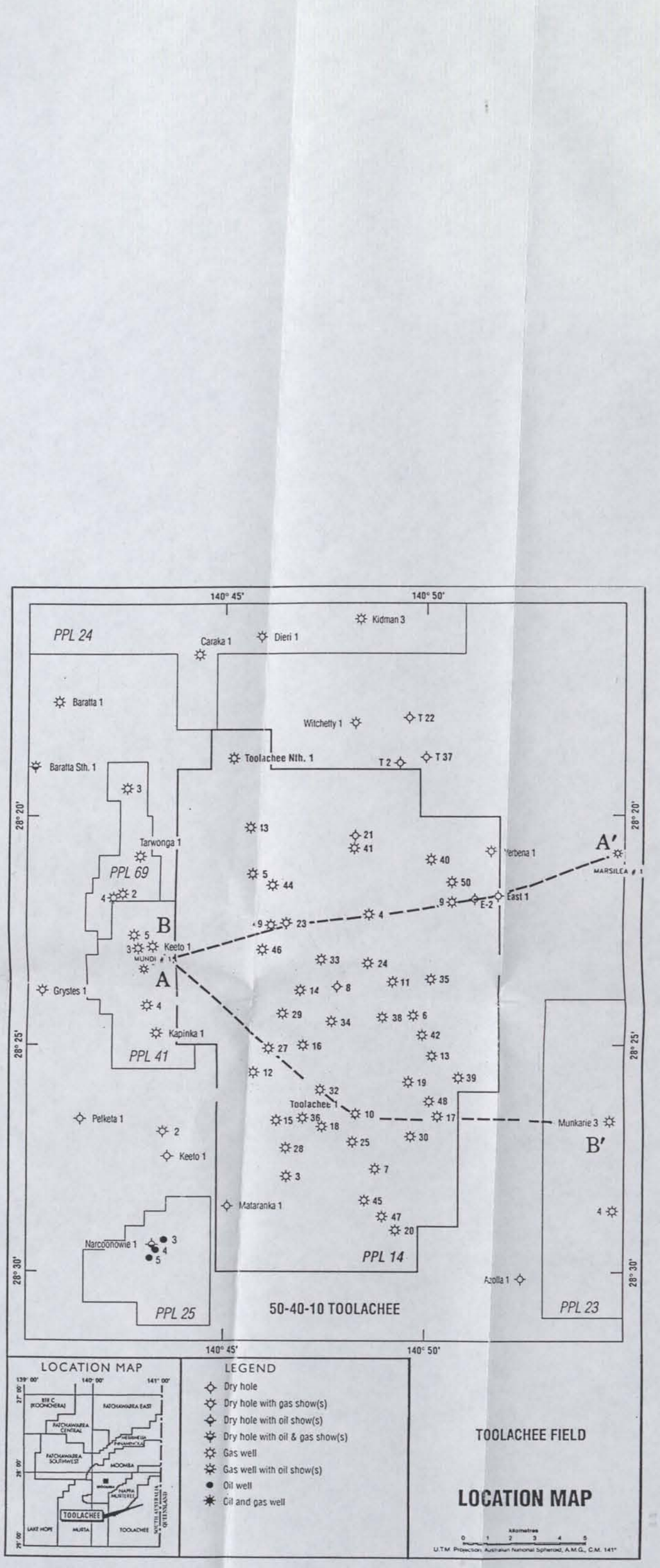
STRATIGRAPHIC CROSS–SECTIONS

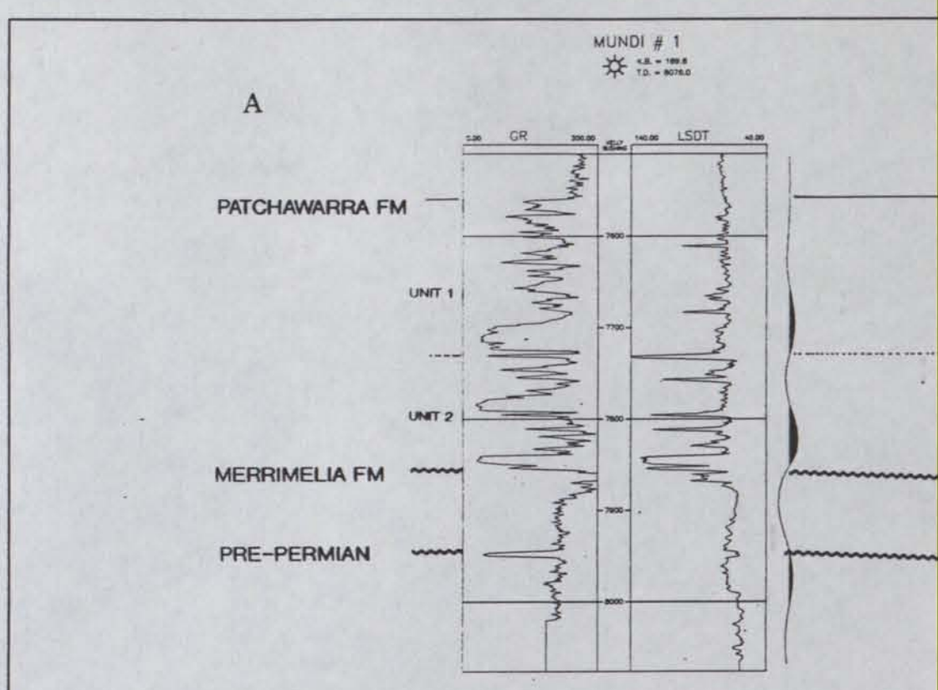
MONTAGE

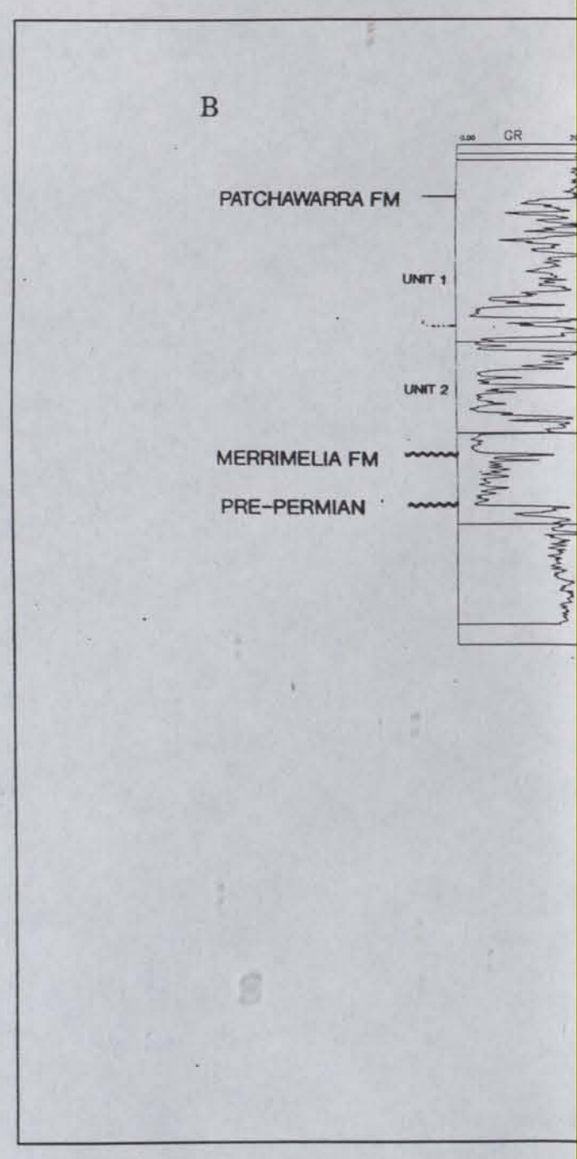
ENCLOSURE 2.9

090PH
A639
MAPS
c.2

UNIVERSITY OF ADELAIDE LIBRARY







TOOLACHEE # 9

PRE-PERMIAN

TOOLACHEE # 4

Z HORIZON

MERRIMELIA FM

V HORIZON

TOOLACHEE # 23

TOOLACHEE # 10

PP 2.2.3–PP 3.1

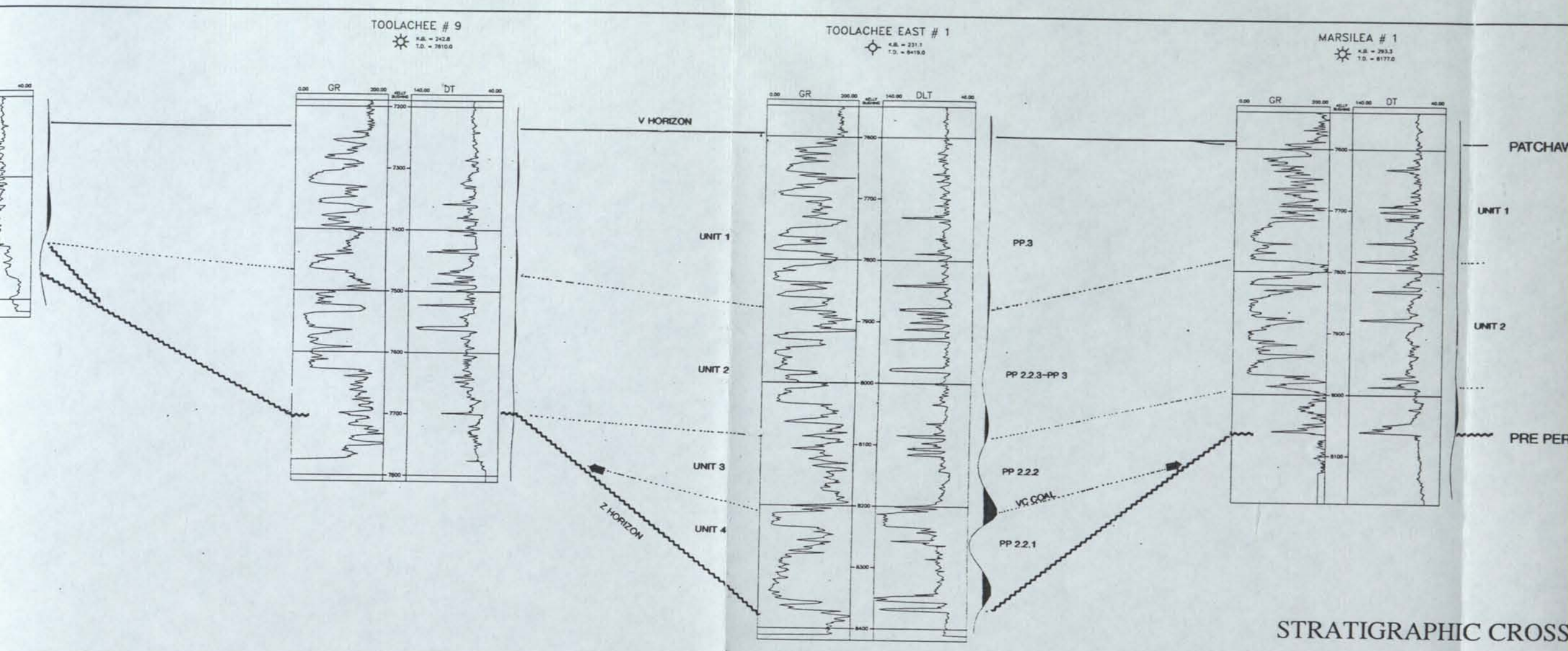
PP 3

V HORIZON

Z HORIZON

TOOLACHEE # 28

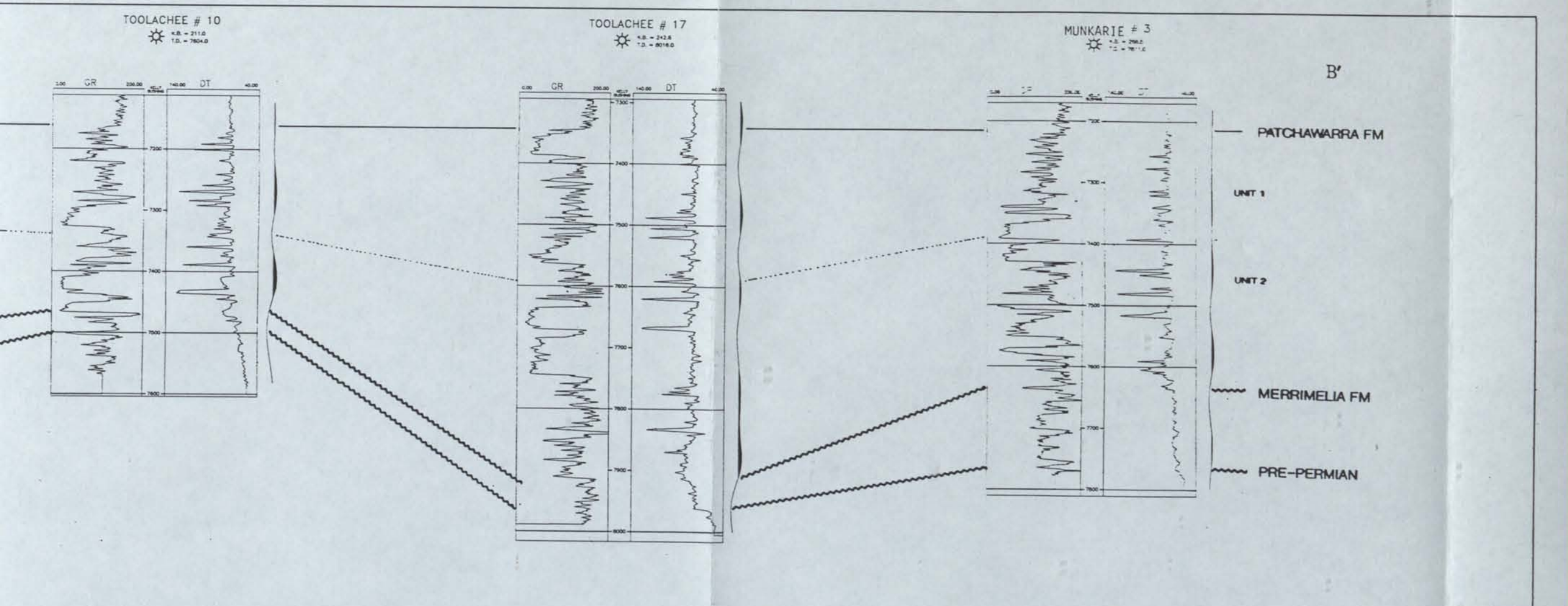
KEETO # 1



STRATIGRAPHIC CROSS

(MUNDI-1 to MARSIL

H.S. :Diagramatic



STRATIGRAPHIC CROSS_SECTION 2

H.S. :Diagramatic

(KEETO-1 to MUNKARI-3)

A′

ATCHAWARRA FM

PRE PERMIAN

ROSS-SECTION 1

RSILEA-1)

28

140 40 | 140 50 | 141 | 141 10 | 141 20

28 10

28 20

28 30

28 40

CORKWOOD 1
NAPPACOONGEE 1
127
39
WILPINNIE 1
DELLA 1
DULLINGARI NORTH 1
DULLINGARI 1
1030
BURKE 1
LAMBDA 1
PERMIAN ABSENT
LIMIT UNIT 2
EPSILON 1
222
ROSENEATH 1
228
WOLGOLLA 1
66
LEPENA 1
459
AROONA 1
BAGUNDI 1
KIDMAN NORTH 1
346
PIRA 1
988
COOCHILARA 1
1023
DILCHEE 1
882
KERNA 1
354
KIDMAN 1
ALISMA 1
913
MARANA 1
246
DIERI 1
359
CARAKAH
640
BARATTA 1
340
WITCHETTY 1
215
TOOLACHEE NORTH 1
198
RHEIMS 1
MOOLIAMPAH WEST 1
MOOLIAMPAH 1
168
HYDRA 1
SIGMA 1
METTIKA 1
421
VERBENA 1
671
TARWONGA 1
315
TOOLACHEE EAST 1
771
MARSILEA 1
473
AMYEMA 1
408
WILLS 1
100
WILLS EAST 1
MUNDI 1
GRYSTES 1
KAPINKA 1
222
332
389
LIMIT UNIT 3 & 4
BRUMBY 1
TOOLACHEE 1
596
342
PELKETA 1
92
KEETO 1
493
MATARANKA 1
NARCOONOWIE 1
115
MUNKARIE 1
481
GLIMMA 1
323
AZOLLA 1
MARAKU 1
481
LIMIT UNIT 2
GIDGEE 1
196
EGLINT 1
MUNRO 1
WIRHA 1
284
COOBOWIE 1
0
PARAGILGA 1
MUNKARIE SOUTH 1
BURRUNA 1
307
WUROOPIE 1
325

500 | 700 | 900 | 1000 | 800 | 600 | 400 | 300 | 200 | 100

LIMIT UNIT 3 & UNIT 4 (PATCHAWARRA FM)

LIMIT UNIT 2

C.I. 100'

0

TOOLACHEE-EP

V-Z HOR

ISOPACH

TOOLACHEE-EPSILON AREA

V-Z HORIZON

ISOPACH MAP

LAMBDA 1
PERMIAN ABSENT
ORIENTOS 1
LIMIT UNIT 2
100
ROSENEATH 1
WOLGOLLA 1
66
BELAH 1
738
ASHBY 1
285
200
RHEIMS 1
100
MOOLIAMPAH WEST 1
MOOLIAMPAH 1
TICKALARA 1
168
HYDRA 1
SIGMA 1
WILLS EAST 1
CORKWOOD 1
NAPPACOONGEE 1
WILPINNIE 1
DULLINGARI NORTH 1
DELLA 1
MURTEREE SH
DULLINGARI 1
BURKE 1
EPSILON 1
LEPENA 1
AROONA 1
BAGUNDI 1
KIDMAN NORTH 1
PIRA 1
DILCHEE 1
COOCHILARA 1
EPSILON FM
DARALINGIE FM
KERNA 1
MARANA 1
KIDMAN 1
ALISMA 1
DIERI 1
CARAKAN 1
BARATTA 1
ROSENEATH SH
METTIKA 1
TARWONGA 1
VERBENA 1
TOOLACHEE EAST 1
MARSILEA 1
MUNDI 1
AMYEMA 1
GRYSTES 1
KAPINKA 1
BRUMBY 1
TOOLACHEE 1
PELKETA 1
KEETO 1
MUNKARIE 1
GLIMMA 1
MATARANKA 1
NARCOONOWIE 1
AZOLLA 1
MARAKU 1
GIDGEE 1
EGLINT
MURTEREE SH
MUNRO 1
WIRHA 1
COOBOWIE 1
PARAGILGA 1
BURRUNA 1
MUNKARIE SOUTH 1
ROSENEATH SH
WUROOPIE 1

Limit Daralingie F
Limit Roseneath Sh
Limit Epsilon Fm

0 4 8 12 16
KILOMETRES

141 20 141 30 141 35 140 40 140 50 141 141 10

28 28 28 10 28 10 28 20 28 20 28 30 28 30 28 40 28 40

141 | 141 10 | 141 20 | 141 30 | 141 35 | 140 40 | 140 50

28 | 28

28 10 | 28 10

28 20 | 28 20

28 30 | 28 30

28 40 | 28 40

LAMBDA 1
ORIENTOS 1
EPSILON 1
ROSENEATH 1
WOLGOLLA 1
BELAH 1
ASHBY 1
RHEIMS 1
MOOLIAMPAH WEST 1
MOOLIAMPAH 1
HYDRA 1
SIGMA 1
TICKALARA 1
WILLS 1
WILLS EAST 1
BRUMBY 1
GLIMMA 1
GIDGEE 1
EGLINT 1
MUNRO 1
PARAGILGA 1
MUNKARIE SOUTH 1
RNA 1

DARALINGIE FM
ROSENEATH SH
DARALINGIE FM
MURTEREE SH

PRE-PERMIAN

CORKWOOD 1
NAPPACOONGEE 1
WILPINNIE 1
DULLINGARI NORTH 1
DELLA 1
DULLINGARI 1
BURKE 1
LEPENA 1
AROONA 1
BAGUNDI 1
KIDMAN NORTH 1
PIRA 1
DILCHEE 1
COOCHILARA 1
MARANA 1
KIDMAN 1
ALISMA 1
DIERI 1
CARAKAN 1
BARATTA 1
WITCHETTY 1
TOOLACHEE NORTH 1
METTIKA 1
TARWONGA 1
VERBENA 1
MARSILEA 1
TOOLACHEE EAST 1
MUNDI 1
AMYEMA 1
GRYSTES 1
KAPINKA 1
TOOLACHEE 1
PELKETA 1
KEETO 1
MATARANKA 1
MUNKARIE 1
NARCOONOWIE 1
AZOLLA 1
MARAKU 1
WIRHA 1
BURRUNA 1
COOBOWIE
WUROOPIE 1

300 | 400 | 500

TOOLACHEE-EPSILON AREA

DARALINGIE UNCONFORMITY
SUBCROP MAP

Limit Daralingie Fm
Limit Roseneath Shale
Limit Epsilon Fm

0 4 8 12 16
KILOMETRES

140 40 140 50 141 141 10 141 20 141 30 141 35

28 28 10 28 20 28 30 28 40

CORKWOOD 1
NAPPACOONGEE 1
WILPINNIE 1
DULLINGARI NORTH 1
DELLA 1
DULLINGARI 1
BURKE 1
LEPENA 1
AROONA 1
BAGUNDI 1
KIDMAN NORTH 1
PIRA 1
DILCHEE 1
COOCHILARA 1
KERNA 1
KIDMAN 1
MARANA 1
ALISMA 1
DIERI 1
CARAKAT 1
BARATTA 1
WITCHETTY 1
TOOLACHEE NORTH 1
METTIKA 1
TARWONGA 1
VERBENA 1
MARSILEA 1
TOOLACHEE EAST 1
MUNDI 1
AMYEMA 1
GRYSTES 1
KAPINKA 1
BRUMBY 1
TOOLACHEE 1
PELKETA 1
KEETO 1
MUNKARIE 1
MATARANKA 1
NARCOONOWIE 1
AZOLLA 1
MARAKU 1
WIRHA 1
BURRUNA 1
COOBOWIE 1
WUROOPIE 1
LAMBDA 1
PERMIAN ABSENT
ORIENTOS 1
EPSILON 1
ROSENEATH 1
WOLGOLLA 1
BELAH 1
ASHBY 1
RHEIMS 1
MOOLIAMPAH WEST 1
MOOLIAMPAH 1
HYDRA 1
SIGMA 1
TICKALARA 1
WILLS 1
WILLS EAST 1
GLIMMA 1
GIDGEE 1
EGLINT 1
MUNRO 1
PARAGILGA 1
MUNKARIE SOUTH 1

300 400 500

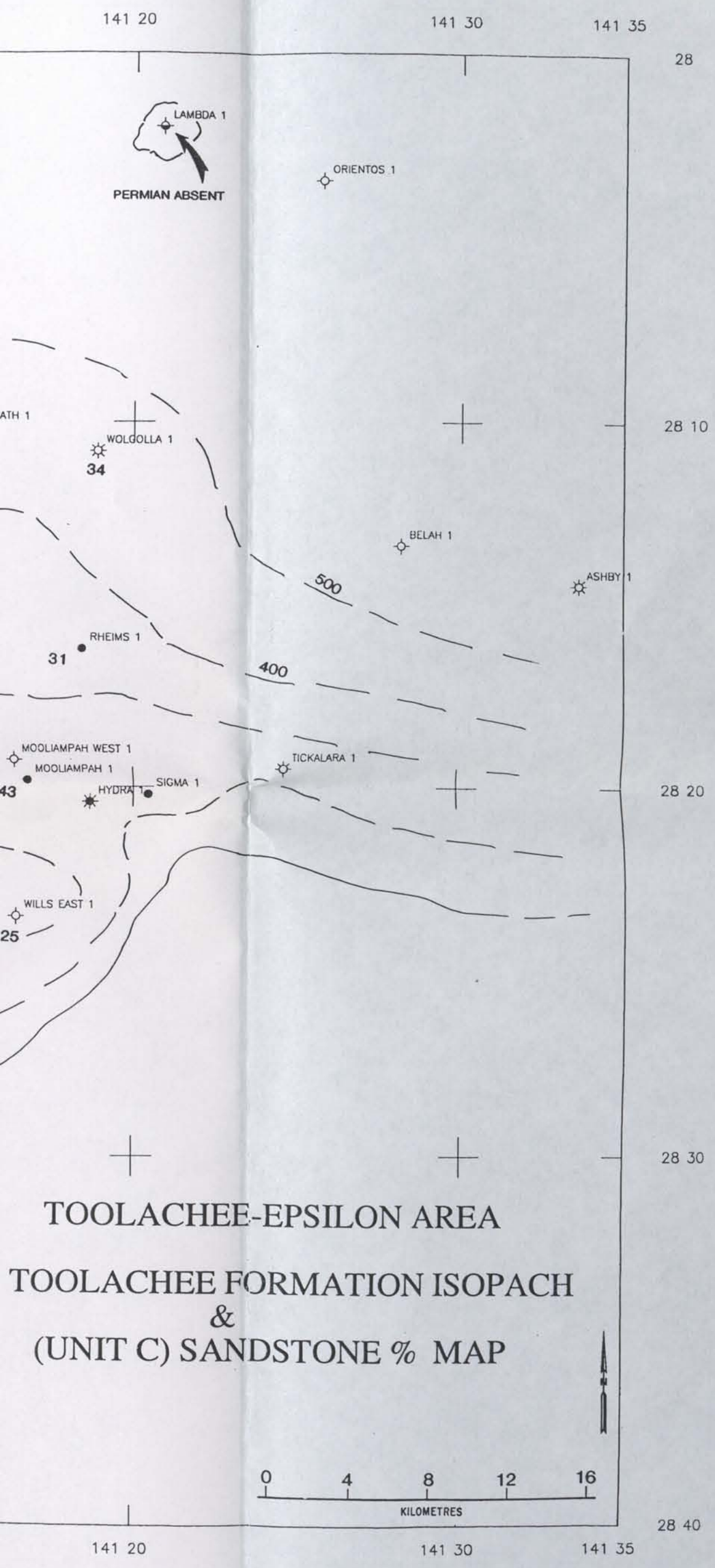
TOOLACHEE-EPSILON AREA

TOOLACHEE FORMATION ISOPACH & (UNIT C) SANDSTONE % MAP

----- (UNIT C % Sandstone) C.I. 10

—— Thickness (TOOLACHEE FM) C.I. 100'

0 4 8 12 16
KILOMETRES



TOOLACHEE–EPSILON AREA

ISOPACH, SUBCROP MAPS

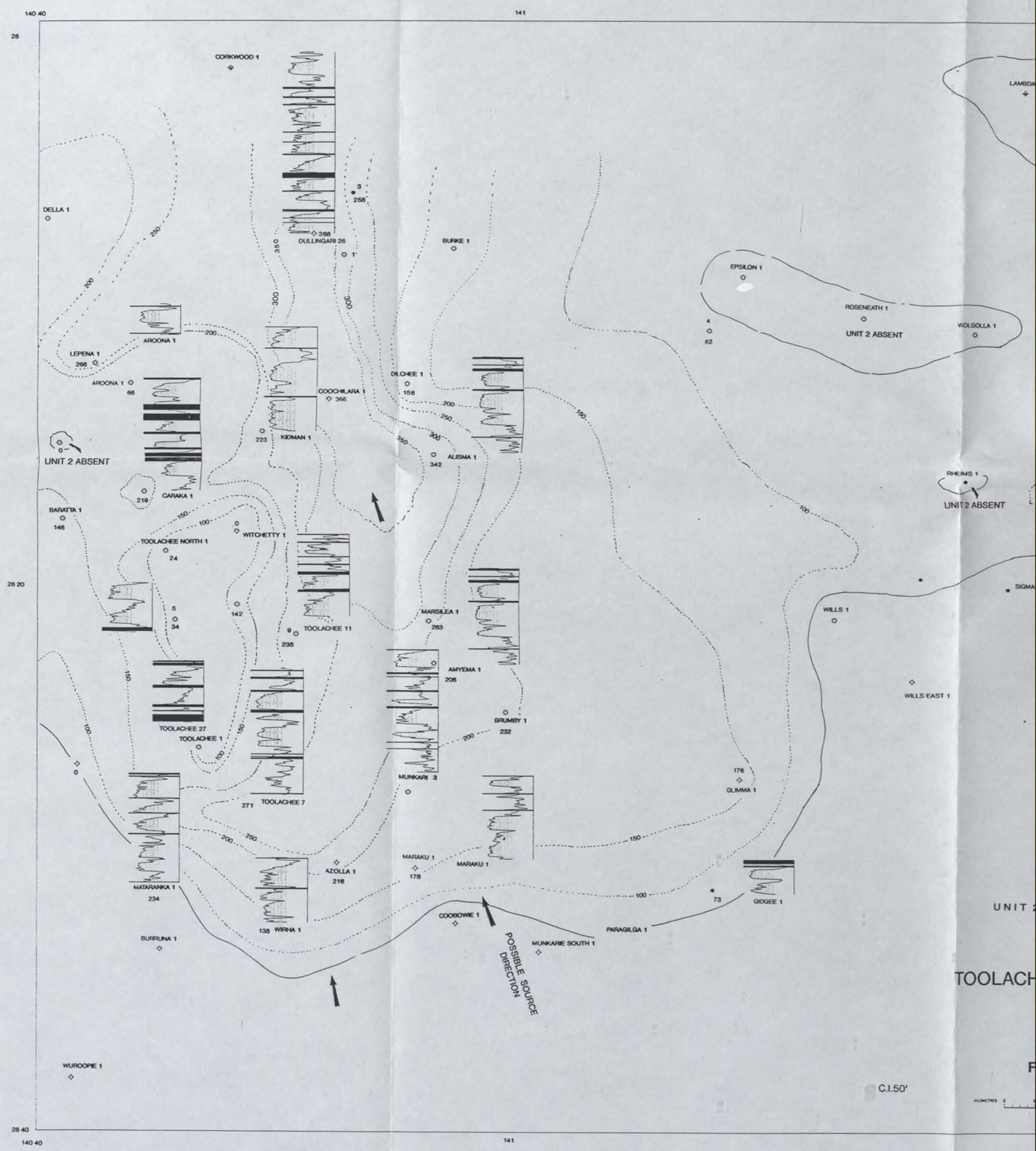
&

STRATIGRAPHIC CROSS–SECTIONS MONTAGE

ENCLOSURE 2.10

090 PH
A639
MAPS
c.2

UNIVERSITY OF ADELAIDE LIBRARY



141 35

28

LAMBDA 1

UNIT 2 ABSENT

ORIENTOS 1

N

GOLLA 1

BELAH 1

208

200

150

100

S 1

2 ABSENT

TICKALARA 1

SIGMA 1

28 20

UNIT 2 ABSENT

OOLACHEE BLOCK & TOTAL 66 REGION

PATCHAWARRA FM

UNIT 2 PP 2.2.3

FACIES AND ISOPACH MAP

KILOMETRES 2 0 2 4 6 8 10 KILOMETRES

SUKRU N. APAK
© NCPGG

28 40

141 35

140 40

141

28

CORKWOOD 1

200

250

300

DELLA 1

130

352

DULLINGARI 26

DULLINGARI 1

BURKE 1

EPSILON 1

AROONA 1

LEPENA 1

188

AROONA 1

125

150

KIDMAN 1

DILCHEE 1

181

ALISMA 1

195

CARAKA 1

213

BARATTA 1

140

WITCHETTY 1

181

TOOLACHEE NORTH 1

174

28 20

TARWONGA 1

5

159

40

9

226

AMYEMA 1

172

154

27

160

TOOLACHEE 1

146

TOOLACHEE 7

28

160

3

189

MATARANKA 1

154

MUNKARI 3

197

170

BRUMBY 1

187

GLIMMA

218

AZOLLA 1

142

MARAKU 1

123

GIDGEE 1

COOROWIE 1

0

PARAGILGA 1

MUNKARIE SOUTH 1

146

WIRHA 1

BURRUNA 1

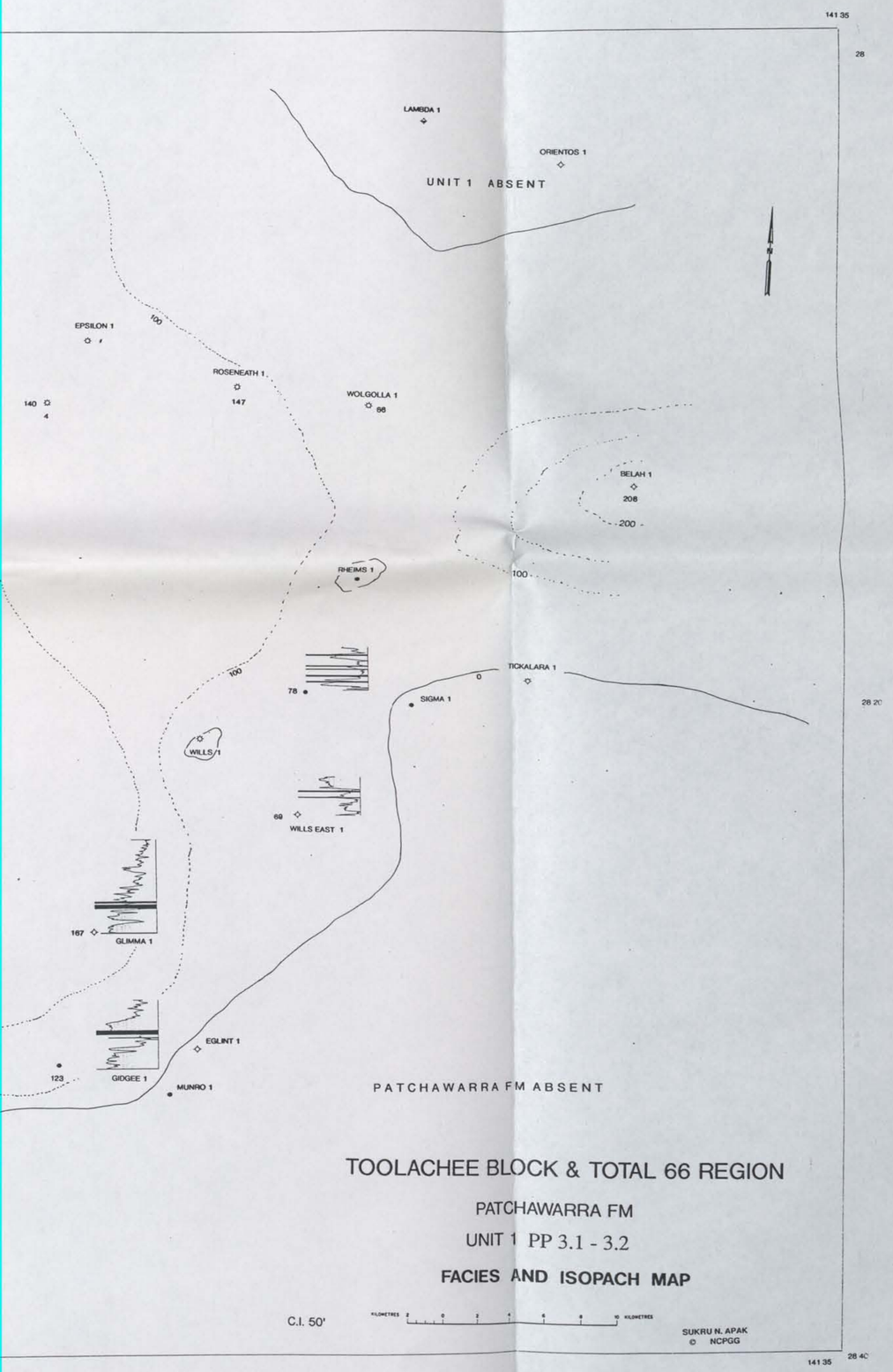
0

WUROOPIE 1

28 40

140 40

141



TOOLACHEE BLOCK & TOTAL 66 REGION

PATCHAWARRA FM UNITS

FACIES & ISOPACH MAPS

MONTAGE

ENCLOSURE 2.11

090PH
A634
MAPS
c.2

UNIVERSITY OF ADELAIDE LIBRARY

140 40

141

28

28 20

CORKWOOD 1

DELLA 1

DULLINGARI 26

388

3

208

1

BURKE 1

EPSILON 1

ROSENEATH 1

4

82

UNIT 2 ABSENT

AROONA 1

LEPENA 1

266

AROONA 1

66

COOCHILARA 1

366

KIDMAN 1

223

DILCHEE 1

156

ALISMA 1

342

0

UNIT 2 ABSENT

CARAKA 1

219

BARATTA 1

146

TOOLACHEE NORTH 1

24

WITCHETTY 1

0

142

TOOLACHEE 11

9

5

34

MARSILEA 1

283

WILLS 1

200

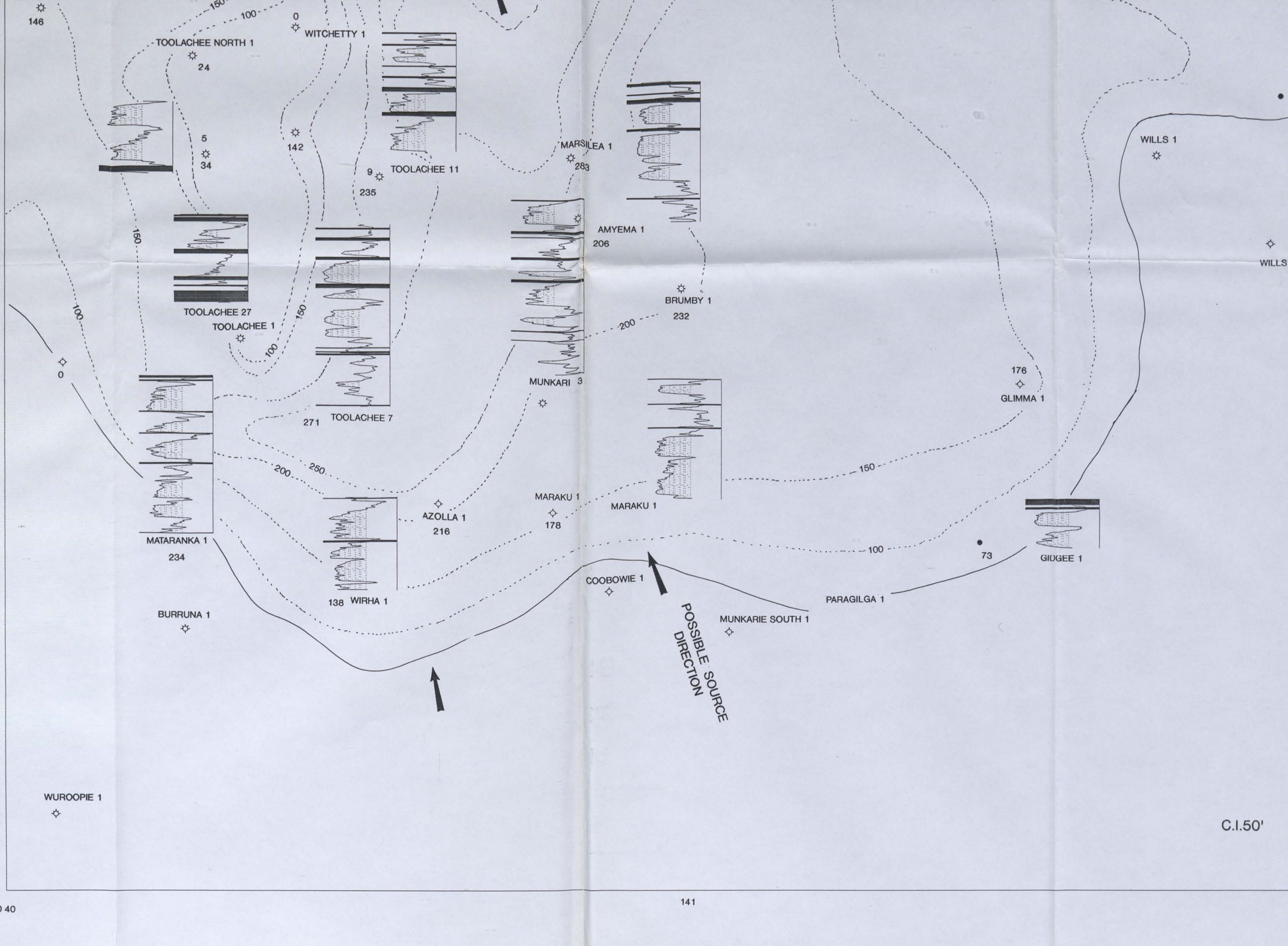
250

300

350

150

100


146
TOOLACHEE NORTH 1
24
0
WITCHETTY 1
28 20
5
34
142
9
235
TOOLACHEE 11
MARSILEA 1
283
WILLS 1
WILLS
AMYEMA 1
206
150
TOOLACHEE 27
TOOLACHEE 1
100
150
BRUMBY 1
232
200
0
MUNKARI 3
176
GLIMMA 1
271
TOOLACHEE 7
200
250
MARAKU 1
178
MARAKU 1
150
AZOLLA 1
216
MATARANKA 1
234
138
WIRHA 1
100
73
GIDGEE 1
COOBOWIE 1
PARAGILGA 1
BURRUNA 1
MUNKARIE SOUTH 1
POSSIBLE SOURCE DIRECTION
WUROOPIE 1
C.I.50'
28 40
140 40
141

141

141 35

28

LAMBDA 1

UNIT 2 ABSENT

ORIENTOS 1

N

BURKE 1

EPSILON 1

ROSENEATH 1

4

82

UNIT 2 ABSENT

WOLGOLLA 1

BELAH 1

208

200

150

100

200

250

300

ALISMA 1

342

RHEIMS 1

UNIT 2 ABSENT

150

100

TICKALARA 1

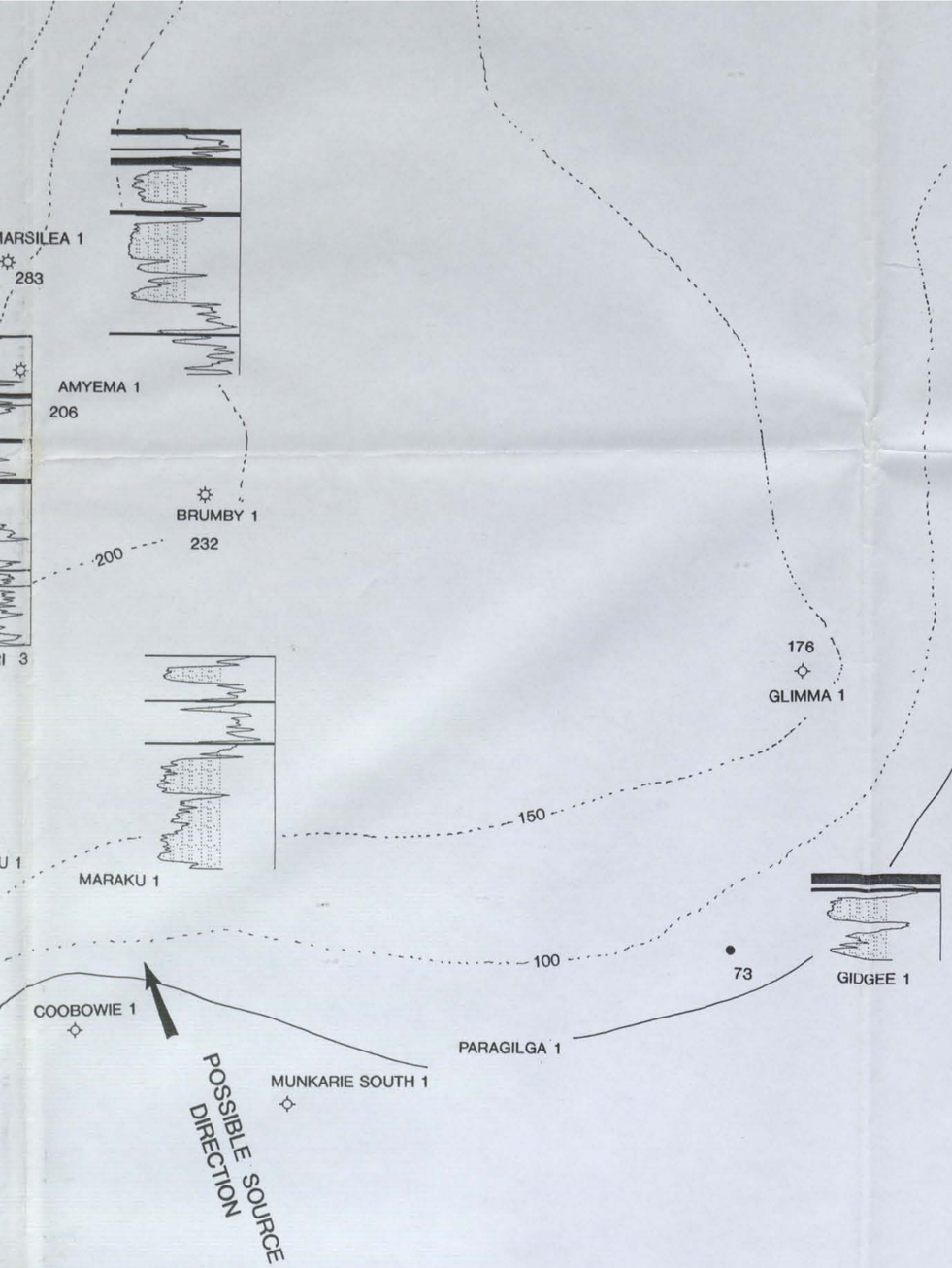
SIGMA 1

WILLS 1

MARSILEA 1

283

28 20



TOOLACHEE BLOCK & TOTAL 66 REGION

PATCHAWARRA FM

UNIT 2 PP 2.2.3

FACIES AND ISOPACH MAP

C.I.50'

KILOMETRES 2 0 2 4 6 8 10 KILOMETRES

SUKRU N. APAK
© NCPGG

28 20

28 40

141

141 35

ENCLOSURE 2.11a

090 PH
A639
MAPS
C.2

UNIVERSITY OF ADELAIDE LIBRARY

140 40

141

28

CORKWOOD 1

200

250

300

352

300

DULLINGARI 26

DULLINGARI 1

DELLA 1

130

200

AROONA 1

BURKE 1

EPSILON 1

100

ROSENEATH 1

140

4

147

LEPENA 1

188

AROONA 1

125

150

200

200

DILCHEE 1

181

150

KIDMAN 1

ALISMA 1

195

CARAKA 1

213

BARATTA 1

140

WITCHETTY 1

181

TOOLACHEE NORTH 1

174

200

150

28 20

78

TARWONGA 1

5

159

40

9

100

BARATTA 1
140

TOOLACHEE NORTH 1
174

WITCHETTY 1
181

28 20

TARWONGA 1

5
159

40

9
226

TOOLACHEE 1
27
160
146

154

TOOLACHEE 7

MATARANKA 1
154

28
160

3
189

200

150

100

AMYEMA 1
172

170

BRUMBY 1

MUNKARI 3

197

WILLS 1

78

69

WILL

GLIMMA 1
167

218

AZOLLA 1

142

MARAKU 1

WIRHA 1
146

BURRUNA 1
0

150

100

200

WUROOPIE 1

150

100

123

GIDGEE 1

EGLINT 1

MUNRO 1

COOBOWIE 1
0

PARAGILGA 1

MUNKARIE SOUTH 1

C.I. 5

28 40

140 40

141

141

141 35

28

LAMBDA 1

ORIENTOS 1

UNIT 1 ABSENT

N

BURKE 1

EPSILON 1

100

ROSENEATH 1

147

140

4

WOLGOLLA 1

66

BELAH 1

208

200

100

ALISMA 1

195

150

RHEIMS 1

78

100

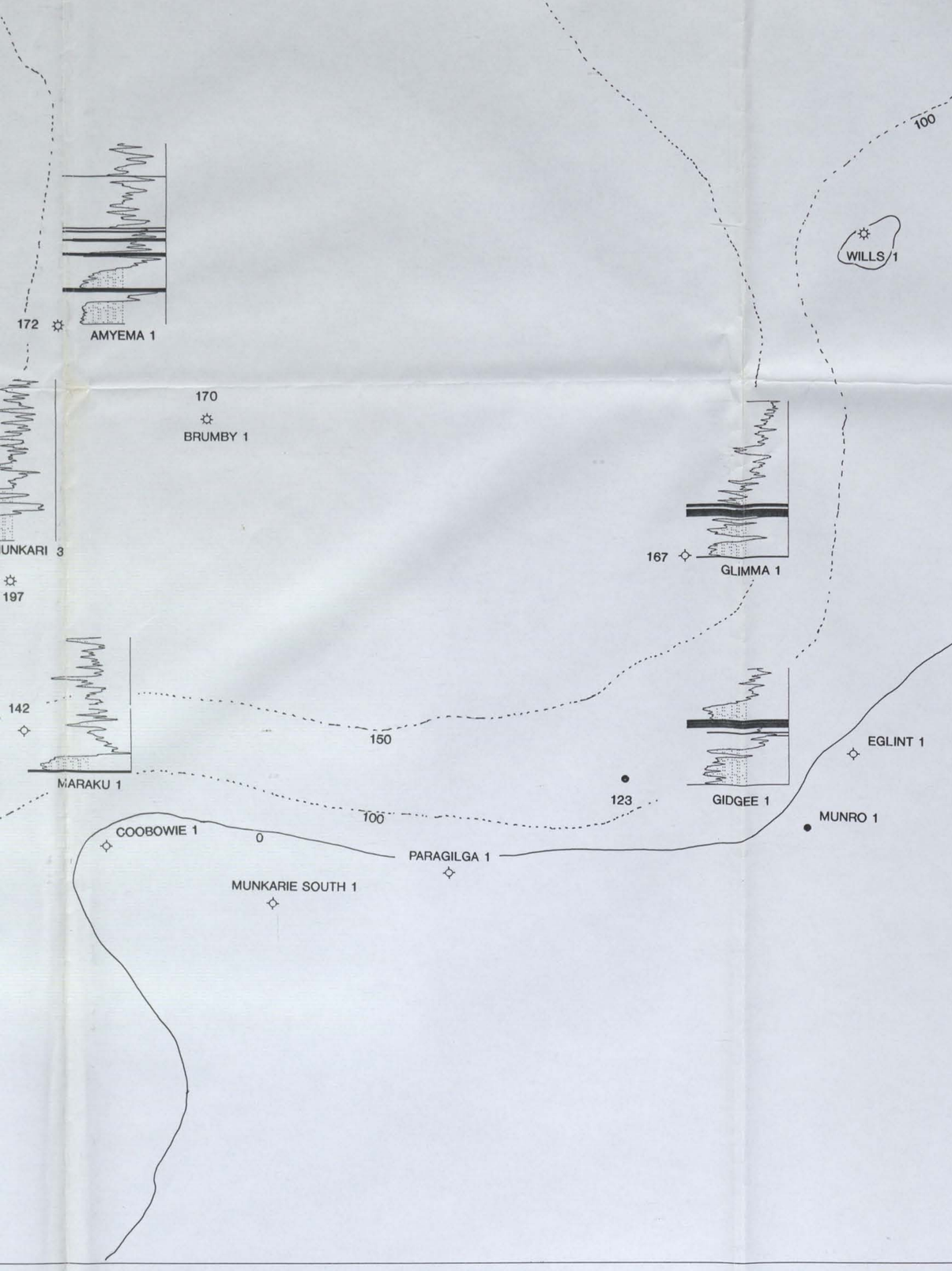
TICKALARA 1

0

SIGMA 1

WILLS 1

28 20



PATCHAWARRA FM ABSENT

TOOLACHEE BLOCK & TOTAL 66 REGION

PATCHAWARRA FM

UNIT 1 PP 3.1 - 3.2

FACIES AND ISOPACH MAP

C.I. 50'

KILOMETRES 2 0 2 4 6 8 10 KILOMETRES

SUKRU N. APAK
© NCPGG

141

141 35

28 40

ENCLOSURE 2.11b

D90 PH
A639
MAPS
c.2

UNIVERSITY OF ADELAIDE LIBRARY

COOPER BASIN
PRE-PERMIAN
FAULT PATTERN

COMPRESSION

TENSION

DUPLEX ZONE

Synthetic Fault
Antithetic Fault
Branch Fault
Master Fault
Subsidiary Fault

0 MILES 10

KILOMETRES 10 0 10 20 30 40 50 KILOMETRES

COOPER BASIN

TIRRAWARRA SS

ISOPACH MAP

C.I 100'

TIRRAWARRA SANDSTONE ABSENT

ZERO EDGE TIRRAWARRA SS

THICK

GIDGEALPA

MOOMBA

DELLA

TIRRAWARRA SANDSTONE ABSENT

DARALINGIE

TOOLACHEE

COOK 1

JAMES 1

BARROLKA 1

TOBY 1

0 MILES 10

KILOMETRES 10 0 10 20 30 40 50 KILOMETRES

139 15 139 30 140 140 30 141 141 30 142 142 30

26 40 27 27 30 28 28 30 29

UNIT 5 ABSENT

THICK

GIDGEALPA

MOOMBA

UNIT 5 ABSENT

DELLA

UNIT 5 ABSENT

DARALINGIE

TOOLACHEE

100 200 300 400 500 600

PATCHAWARRA FM

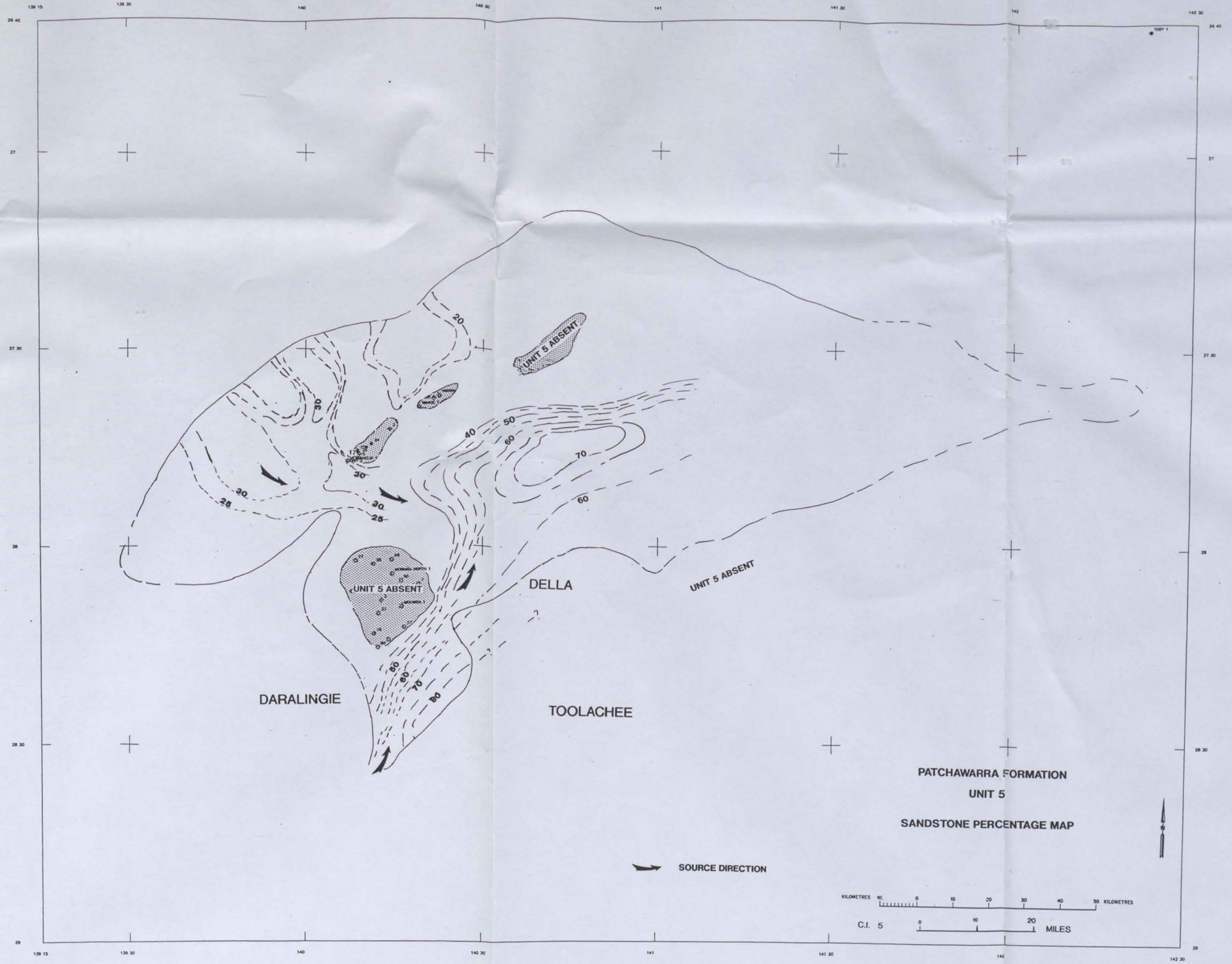
UNIT 5 PP 2.1

ISOPACH MAP

C.I. 100'

0 10 MILES

KILOMETRES 10 0 10 20 30 40 50 KILOMETRES


139 15
139 30
140
140 30
141
141 30
142
142 30
26 40
27
27 30
28
28 30
29
TOOLACHEE 1
UNIT 5 ABSENT
20
30
25
40
50
60
70
80
DELLA
UNIT 5 ABSENT
DARALINGIE
TOOLACHEE
PATCHAWARRA FORMATION
UNIT 5
SANDSTONE PERCENTAGE MAP
SOURCE DIRECTION
KILOMETRES 10 0 10 20 30 40 50 KILOMETRES
C.I. 5
0 10 20 MILES

139 15 139 30 140 140 30 141 141 30 142 142 30

26 40 27 27 30 28 28 30 29

UNIT 4 ABSENT

100 200 300 200 300 200 300

UNIT 4 ABSENT

THICK

GIDGEALPA

MOOMBA

DELLA

UNIT 4 ABSENT

TOOLACHEE

DARALINGIE

PRE-PERMIAN

PATCHAWARRA FM
UNIT 4 PP 2.2.1
ISOPACH MAP

0 10 MILES C.I 100'

KILOMETRES 10 0 10 20 30 40 50 KILOMETRES


138 15
138 30
140
140 30
141
141 30
142
142 30
26 40
27
27 30
28
28 30
29
TOBY 1
UNIT 4 ABSENT
GIDGEALPA
DELLA
UNIT 4 ABSENT
DARALINGIE
MERINDA 1
UNIT 4 ABSENT
PATCHAWARRA FORMATION
UNIT 4
SANDSTONE PERCENTAGE MAP
SOURCE DIRECTION
KILOMETRES
C.I. 10
MILES

139 15 139 30 140 140 30 141 141 30 142 142 30

26 40 27 27 30 28 28 30 29

UNIT 3 ABSENT

UNIT 3 ABSENT

THICK

100 200 300 400 500

MOOMBA

DELLA

TOOLACHEE

DARALINGIE

JONCT 1

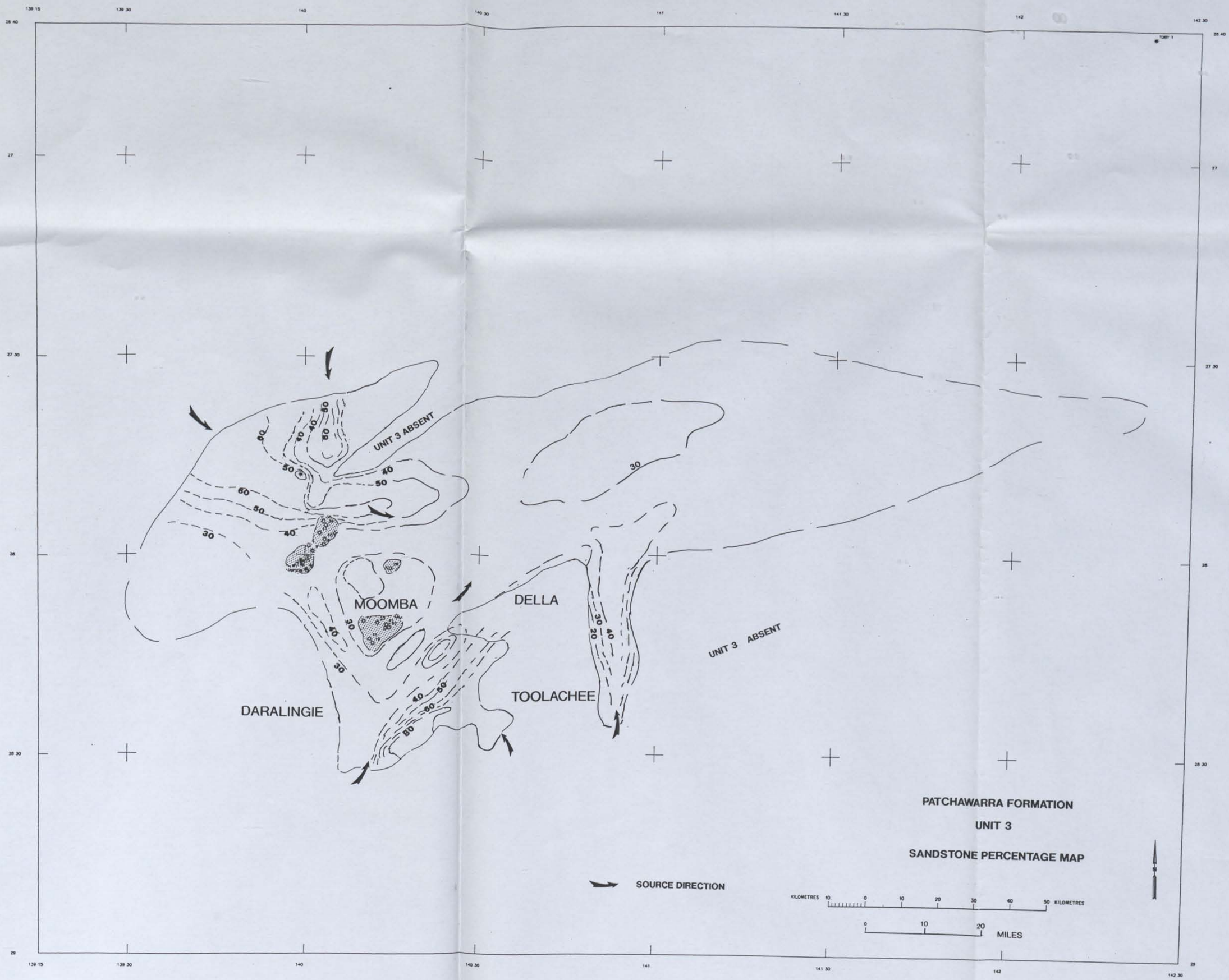
KUPPO 1

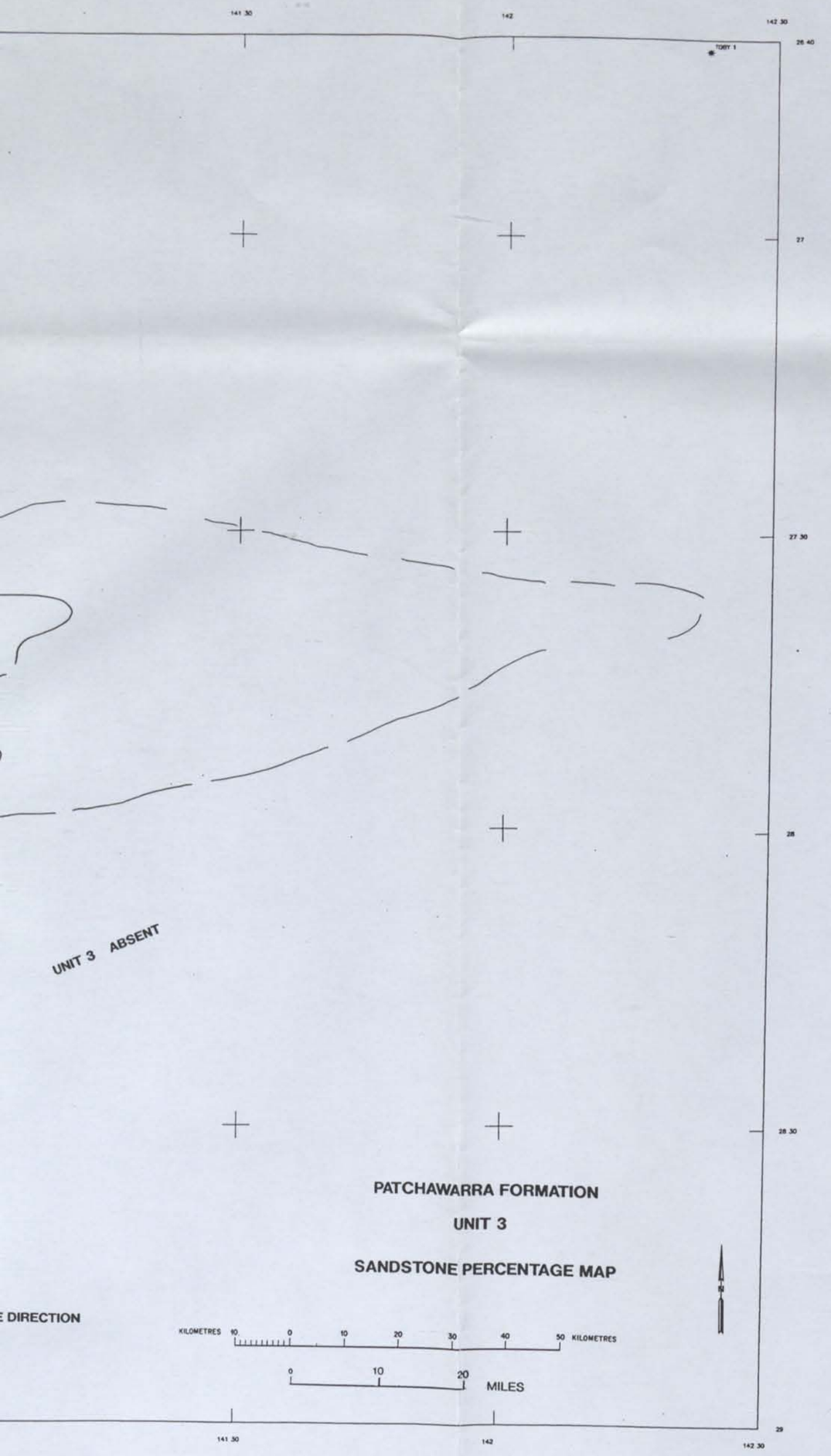
KAPPO 1

PATCHAWARRA FM
UNIT 3 PP 2.2.2
ISOPACH MAP

0 10 MILES C.I. 100'

KILOMETRES 10 0 10 20 30 40 50 KILOMETRES


139 15
139 30
140
140 30
141
141 30
142
142 30
26 40
27
27 30
28
28 30
29
TOMY 1
UNIT 3 ABSENT
MOOMBA
DELLA
DARALINGIE
TOOLACHEE
UNIT 3 ABSENT
PATCHAWARRA FORMATION
UNIT 3
SANDSTONE PERCENTAGE MAP
SOURCE DIRECTION
KILOMETRES
MILES
N



COOPER BASIN

FORMATIONS ISOPACH

&

STRUCTURAL MAPS

MONTAGE

ENCLOSURE 3.1

QQPH
A639
MAPS
c.2

UNIVERSITY OF ADELAIDE LIBRARY

139 15
139 30
140
140 30
141
26 40
27
27 30
28
28 30
29

JAMES 1
DERAMOOKOO 1
CUTTAPIRRIE 1
BEANBUSH 1
LAMDINA 1
YANTA 1
TITAN 1
CHARO 1
DARTER 1
MOOLION 1
MITCHIE 1
DELIN 1
TOONMAN 1
COONATIE 1
INNAMINCKA 1
BOOKABOURDIE 1
BIMBAYA 1
PONDRINIE 1
PACKSADDLE 1
BALCAMINGA 1
MERUPA 1
CALLABONNA 1
MOORARI 1
WOOLKINA 1
BROLGA 1
MINGANA 1
FLY LAKE 1
MUDRANGIE 1
MINKIE 1
WANTANA 1
DEPARANIE 1
KIRBY 1
KALLADEINA 1
TIRRAWARRA 1
VARANUS 1
GOORANIE 1
ANDREE 1
LELEPTIAN 1
NULLA 1
WELCOME LAKE 1
KANOWANA 2
MERRIMELIA 1
PELICAN 3
BURLEY 1
MCLEOD 1
SWAN LAKE 1
COWRALLI 1
TINDILPIE 1
SNAKE HOLE 1
JACK LAKE 1
GIDGEALPA 1
THREE QUEENS 1
NAPPACOONGEE 1
POORAKA 1
WILPINNIE 1
DULLINGARI NORTH 1
DELLA 1
DULLINGARI 1
LYCIUM 1
MAWSON
KURUNDA 1
MOOMBA NORTH 1
LAKE HOPE 1
MUTEROO 1
KIRRALEE 1
MOOMBA 1
SPENCER 1
MUDERA 1
MINA 1
ARRAKIS 1
BIG LAKE 1
DILCHEE 1
KERNA 1
ALISMA 1
PINTARI NORTH 1
WIRRARIE 1
TOPWEE 1
POGONA 1
LOWANNA 1
COOLOON 1
STRZELECKI 1
KIDMAN 1
MARANA 1
CARAKA 1
BARATTA 1
WITCHETTY 1
TOOLACHEE NORTH 1
PINTARI 1
KARILLA 1
BOOBOOK 1
COWAN 1
MUDLALEE 1
CHILDIE 1
CHILCARRIE 1
TARWONGA 1
VERBENA 1
METTIKA 1
MARSILEA 1
YAPENDI 1
MOOLALLA 1
YALCUMMA 1
WAUKATANNA 1
KALANNA 1
GOYDER 1
KERINNA 1
MURTEREE 1
AMYEMA 1
BRUMBY 1
PANDO NORTH 1
DEINA 1
LYCOSA 1
PANDO 1
THURAKINNA 1
BARCOOLOO 1
TOOLACHEE 1
KEETO 1
MUDARANHA 1
MERINDA 1
MANOOKA 1
MCKINLAY 1
PINNA 1
ALKOOMI 1
MUNKARIE 1
AZOLLA 1
PANDRUANNIE 1
KIJANI 1
JENA 1
LIMESTONE CREEK 1
BOXWOOD 1
DIRKALGARANJANIE 1
WANCOOCHA 1
BATTUNGA 1
WIRHA 1
COOBOWIE 1
NUNGEROO 1
KIWARRICK 1
WUROOPIE 1
DUNOON 1
KOBARI 1

U D
U D
U D
U D

TENSION

DU

CO

141 | 141 30 | 142 | 142 30

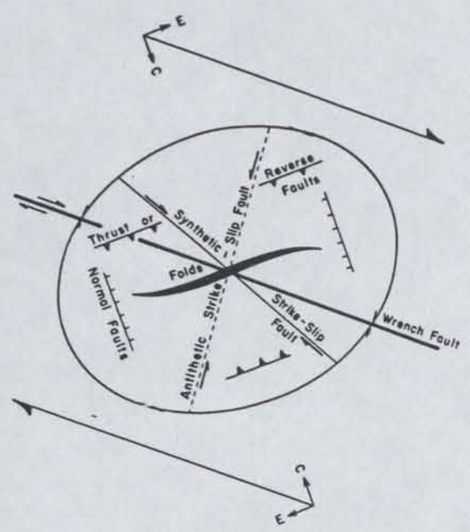
26 40 | 27 | 27 30 | 28 | 28 30 | 29

JAMES 1
COOK 1
BARROLKA 1
TOBY 1
TARTULLA 1
OKOTOKO 1
BEANBUSH 1
MAHL 1
MACADAMA 1
TALLALIA 1
CHALLUM 1
BALLERA 2
MUNKAH 1
JUDGA 1
BALLAT 1
YANDA 1
WACKETT 1
NACCOWLAH 1
NACCOWLAH EAST 1
NACCOWLAH SOUTH 1
KARRI 1
CHOOKOO 5
KARWIN 1
JACKSON 1
PALLANO 1
BARYULAH 1
CORELLA 1
ECHUBURRA 1
INNAMINCKA 1
PACKSADDLE 1
PONDRINIE 1
KIRBY 1
BURLEY 1
MCLEOD 1
THREE QUEENS 1
NAPPACOONGEE 1
POORAKA 1
WILPINNIE 1
DULLINGARI NORTH 1
DELLA 1
DULLINGARI 1
ORIENTOS NORTH 1
LAMBDA 1
ORIENTOS 1
HUME 1
EPSILON 1
ROSENEATH 1
STRZELECKI 1
MARANA 1
KIDMAN 1
DILCHEE 1
KERNA 1
ALISMA 1
BELAH 1
ASHBY 1
RHEIMS 1
CARAKA 1
BARATTA 1
WITCHETTY 1
TOOLACREE NORTH 1
CHILDIE 1
CHILCARRIE 1
TARWONGA 1
VERBENA 1
METTIKA 1
MARSILEA 1
AMYEMA 1
MOOLIAMPAH 1
HYDRA 1
TICKALARA 1
WILLS 1
WILLS EAST 1
BRUMBY 1
BARCOOLOO 1
TOOLACREE 1
KEETO 1
MUNKARIE 1
MIRRANHA 1
GLIMMA 1
AZOLLA 1
GIDGEE 1
EGLINT 1
MUNRO 1
WIRHA 1
COOBOWIE 1
MUNKARIE SOUTH 1
HONEYTIN 1
WUROOPIE 1
GOORA 1
DINGERA 1
THOAR 1
MARRAR 1
ELLA 1
ATOLL 1
WOMPAH 1
GSQ TICKALARA 1

COMPRESSION

U
D

COOPER BASIN
PRE-PERMIAN
FAULT PATTERN



0 MILES 10

KILOMETRES 10 0 10 20 30 40 50 KILOMETRES

ENCLOSURE 3.1a

090 PH
A639
MAPS
c.2

UNIVERSITY OF ADELAIDE LIBRARY

139 15 139 30 140 140 30 141

26 40 27 27 30 28 28 30 29

TIRRAWARRA SANDSTONE ABSENT

ZERO EDGE

TIRRAWARRA SS

TIRRAWARRA

THICK

100 200 400

JAMES 1
DERAMOOKOO 1
CUTTAPIRRIE 1
BEANBUSH 1
LAMDINA 1
YANTA 1
TITAN 1
CHARO 1
MOOLION 1
MITCHIE 1
DARTER 1
DELIN 1
COONATIE 1
TOONMAN 1
BOOKABOURDIE 1
BIMBAYA 1
PACKSADDLE 1
PONDRINIE 1
INNAMINCKA 1
CALLABONNA 1
MOORARI 1
WOOLKINA 1
BALCAMINGA 1
MERUPA 1
MINGANA 1
BROLGA 1
PIRRAMINTA 1
MUDRANGIE
WANTANA 1
MINKIE 1
FLY LAKE 1
KALLADEINA 1
TIRRAWARRA 1
DEPARANIE 1
KIRBY 1
ANDREE
VARANUS 1
GODRANIE 1
LELEPTIAN 1
NULLA 1
WELCOME LAKE 1
KANOWANA 2
MERRIMELIA 1
PELICAN 1
BURLEY 1
MCLEOD 1
SWAN LAKE 1
COWRALLI 1
TINDILPIE 1
SNAKE HOLE 1
JACK LAKE 1
GIDGEALPA 1
THREE QUEENS 1
NAPPACOONGEE 1
POORAKA 1
WILPINNIE 1
DULLINGARI NORTH 1
DELLA 1
DULLINGARI 1
LYCIUM 1
MAWSON
KURUNDA 1
MOOMBA NORTH 1
LAKE HOPE 1
MUTEROO 1
KIRRALEE 1
MOOMBA 1
MUDERA 1
MINA 1
SPENCER 1
ARRAKIS 1
BIG LAKE 1
LOWANNA 1
STRZELECKI 1
COOLOON 1
MARANA 1
KIDMAN 1
DILCHEE 1
KERNA 1
ALISMA 1
CARAKA 1
BARATTA 1
WITCHETTY 1
TOOLACHEE NORTH 1
PINTARI NORTH 1
WIRRARIE 1
TOPWEE 1
POGONA 1
PINTARI 1
KARILLA 1
BOOBOOK 1
COWAN 1
MUDLALEE 1
CHILDIE 1
CHILCARRIE 1
TARWONGA 1
VERBENA 1
METTIKA 1
MARSILEA 1
AMYEMA 1
BRUMBY 1
YALCUMMA 1
MOOLALLA 1
WAUKATANNA 1
KALANNA 1
GOYDER 1
KERINNA 1
MURTEREE 1
BARCOOLOO 1
TOOLACHEE 1
KEETO 1
MARANKA 1
MUNKARIE 1
AZOLLA 1
PANDO NORTH 1
PANDO 1
DEINA 1
LYCOSA 1
THURAKINNA 1
MANOOKA 1
MERINDA 1
PINNA 1
MCKINLAY 1
ALKOOM 1
LIMESTONE CREEK 1
PANDRUANNIE 1
KUJANI 1
BOXWOOD 1
DIRKALGARANJANIE 1
WANCOOCHA 1
JENA 1
NUNGEROO 1
BATTUNGA 1
WIRHA 1
COOBOWIE 1
MUNKARIE SOUTH 1
KIWARRICK 1
WUROOPIE 1
DUNOON 1
KOBARI 1

141 | 141 30 | 142 | 142 30

26 40 | 27 | 27 30 | 28 | 28 30 | 29

COOK 1
JAMES 1
BARROLKA 1
TOBY 1
DERAMOOKOO 1
BEANBUSH 1
MACADAMA 1
MAHL 1
PALLALIA 1
CHALLUM 1
INNAMINCKA 1
PACKSADDLE 1
PONDRINIE 1
KIRBY 1
THICK
100
200
ZERO EDGE
TIRRAWARRA SS
TIRRAWARRA SANDSTONE ABSENT
BURLEY 1
MCLEOD 1
THREE QUEENS 1
NAPPACOONGEE 1
POORAKA 1
WILPINNIE 1
DULLINGARI NORTH 1
DULLINGARI 1
DELLA 1
MUDERA 1
STRZELECKI 1
COOLOON 1
MARANA 1
KIDMAN 1
DILCHEE 1
KERNA 1
ALISMA 1
CARAKA 1
BARATTA 1
WITCHETTY 1
TOOLACHEE NORTH 1
MUDLALEE 1
CHILDIE 1
CHILCARRIE 1
TARWONGA 1
VERBENA 1
METTIKA 1
MARSILEA 1
AMYEMA 1
KERINNA 1
MURTEREE 1
BRUMBY 1
BARCOOLOO 1
TOOLACHEE 1
KEETO 1
MAHARANKA 1
MUNKARIE 1
AZOLLA 1
WIRHA 1
COOBOWIE 1
MUNKARIE SOUTH 1
GLIMMA 1
GIDGEE 1
EGLINT 1
MUNRO 1
BATTUNGA 1
WUROOPIE 1
OMICRON 1
PIGEON LAKE 1
EPSILON 1
ROSENEATH 1
LAMBDA 1
ORIENTOS NORTH 1
ORIENTOS 1
HUME 1
RHEIMS 1
BELAH 1
ASHBY 1
MOOLIAMPAH 1
HYDRA 1
TICKALARA 1
WILLS 1
WILLS EAST 1
BALLERA 2
YANDA 1
WACKETT 1
MUNKAH 1
JUDGA 1
BALLAT 1
NACCOWLAH 1
NACCOWLAH SOUTH 1
NACCOWLAH EAST 1
KARRI 1
CHOOKOO 5
TARTULLA 1
OKOTOKO 1
KARWIN 1
KUTYO 1
PALLANO 1
BARYULAH 1
NATAN 1
CORELLA 1
ECHUBURRA 1
GOORA 1
DINGERA 1
THOAR 1
MARRAR 1
ELLA 1
ATOLL 1
WOMPAH 1
HONEYTIN 1
GSQ TICKALARA 1

C.I 100'

0 MILES 10

KILOMETRES 10 0 10 20 30 40 50 KILOMETRES

COOPER BASIN

TIRRAWARRA SS

ISOPACH MAP

ENCLOSURE 3.1b

090 PH
A639
MAPS
c.2

UNIVERSITY OF ADELAIDE LIBRARY

139 15 | 139 30 | 140 | 140 30 | 141

26 40 | 27 | 27 30 | 28 | 28 30 | 29

UNIT 5 ABSENT

UNIT 5 ABSENT

UNIT 5 ABSENT

THICK

DERAMOOKOO 1
COONGIE 1
DAER
CUTTAPIRRIE 1
BEANBUSH 1
LAMDINA 1
YANTA 1
TITAN 1
MOOLION 1
CHARO 1
MITCHIE 1
DARTER 1
KUDRIEKE 1
DELIN 1
COONATIE 1
TOONMAN 1
BOOKABOURDIE 1
BIMBAYA 1
PONDRINIE 1
PACKSADDLE 1
CALLABONNA 1
MOORARI 1
BALCANINGA 1
MERUPA 1
MINGANA 1
BROLGA 1
MUDRANGIE 1
WANTANA 1
FLY LAKE 1
DEPARANIE 1
KALLADEINA 1
TIRRAWARRA 1
KIRBY 1
SPECTRE 1
VARANUS 1
ANDREE 1
GOORANIE 1
LELEPTIAN 1
BURLEY 1
MCLEOD 1
WELCOME LAKE 1
YAROWINNIE 1
KANOWANA 1
PELICAN 1
MERRIMELIA
MERANJI 1
SWAN LAKE 1
COWRALLI 1
TINDILPIE 1
SNAKE HOLE 1
JACK LAKE 1
GIDGEALPA 1
KURUNDA 1
MOOMBA NORTH
THREE QUEENS 1
NAPPACOONGEE 1
DULLINGARI NORTH 1
DELLA 1
DULLINGARI 1
EPSILON 1
LAKE HOPE 1
STURT
TANTANNA 1
MUTEROO 1
SPENCER 1
KIRRALEE 1
MOOMBA 1
ARRAKIS 1
BIG LAKE 1
NAMUR 1
MINA 1
MUDERA 1
STRZELECKI 1
COOLOON 1
JENNET 1
PINTARI NORTH 1
WIRRARIE 1
PINTARI 1
TOPWEE 1
LOWANNA 1
WANARA 1
MODLALEE 1
WITCHETTY 1
YAPENI 1
DARALINGIE 1
MOOLALLA 1
YALCUMMA 1
KALANNA 1
GOYDER 1
KERINNA 1
MURTEREE 1
AMYEMA 1
DEINA 1
LYCOSA 1
MURTEREE C 1
TOOLACHEE 1
PELKETA 1
KEETO 1
PANDO 1
THURAKINNA 1
MERINDA 1
GLIMMA 1
MANOOKA 1
PINNA 1
MCKINLAY 1
ALKDOMI
AZOLLA 1
MARAKU 1
KILIANI 1
JENA 1
LIMESTONE CREEK 1
GIDGEE 1
WANCOOCHA 1
COOBOWIE 1
MUNKARIE SOUTH 1
BOXWOOD 1
NUNGEROO 1
PADULLA 1
UNGARI 1
KWARBOOK 1
WUROOPIE 1
DUNOON 1
KOBARI 1

100 200 300 400 500 600

0

139 15 | 139 30 | 140 | 140 30 | 141

141 | 141 30 | 142 | 142 30

26 40

27

27 30

28

28 30

29

141 | 141 30 | 142 | 142 30

EANBUSH 1
MACADAMA 1
MAHL 1
CHALLUM 1
PACKSADDLE 1
PONDRINIE 1
KIRBY 1
BURLEY 1
MCLEOD 1
THREE QUEENS 1
NAPPACOONGEE 1
DULLINGARI NORTH 1
DELLA 1
DULLINGARI 1
EPSILON 1
ROSENEATH 1
TRZELECKI 1
BELAH 1
ASHBY 1
HUME 1
RHEIMS 1
WITCHETTY 1
MOOLIAMPAH 1
SIGMA 1
TICKALARA 1
WILLS 1
WILLS EAST 1
AMYEMA 1
TOOLACHEE 1
PELKETA 1
KEETO 1
GLIMMA 1
AZOLLA 1
MARAKU 1
GIDGEE 1
EGLINT 1
MUNRO 1
COOBOWIE 1
MUNKARIE SOUTH 1
WUROOPIE 1
OMICRON 1
PIGEON LAKE 1
ORIENTOS NORTH 1
LAMBDA 1
ORIENTOS 1
HONEYTIN 1
NARYILCO 1
TARTULLA 1
KARMONA 1
OKOTOKO 1
BALLERA 1
BALLAT 1
NACCOWLAH 1
WACKETT 1
NACCOWLAH SOUTH
NACCOWLAH EAST 1
CHOOKOO 1
WILSON 1
JACKSON 1
KARWIN 1
KUTYO 1
PALLANO 1
ECHUBURRA 1
GOORA 1
ENNAPERRA 1
ELLA 1
MARRAR 1
ATOLL 1

THICK

UNIT 5 ABSENT

400
300
200
100

PATCHAWARRA FM
UNIT 5 PP 2.1
ISOPACH MAP

C.I. 100'

0 10 MILES

KILOMETRES 10 0 10 20 30 40 50 KILOMETRES

ENCLOSURE 3.1c

090PH
A639
MAPS
c.2

UNIVERSITY OF ADELAIDE LIBRARY

139 15 | 139 30 | 140 | 140 30 | 141

COOK

JAMES 1

DERAMOOKOO 1

CUTTAPIRRIE 1

BEANBUSH 1

TALLALIA 1

YANTA 1

TITAN 1

LAMDINA 1

MOOLION 1

CHARO 1

DARTER 1

MITCHIE 1

JELIN 1

TOONMAN 1

COONATIE 1

INNAMINCKA 1

BOOKABOURDIE 1

BIMBAYA 1

BALCAMINGA 1

MERUPA 1

PACKSADDLE 1

PONDRINIE 1

UNIT 5 ABSENT

CALLABONNA 1

MOORARI 1

WOOLKINA 1

BROLGA 1

MINGAIN 1

FLY LAKE 1

MUDRANGIE 1

MINNIE 1

PIRRAMINTA 1

WANTANA 1

DEPARANIE 1

KALLADEINA 1

TIRRAWARRA 1

KIRBY 1

ANDREE 1

VARANUS 1

GOORANIE 1

LELEPTIAN 1

NULLA 1

WELCOME LAKE 1

KANOWANA 2

BURLEY 1

MCLEOD 1

SWAN LAKE 1

COWRALLI 1

TINDILPIE 1

SNAKE HOLE 1

JACK LAKE 1

GIDGEALPA 1

THREE QUEENS 1

NAPPACOONGEE 1

DULLINGARI NORTH 1

DELLA 1

DULLINGARI 1

UNIT 5 ABSENT

MAWSON 1

KURUNDA 1

LAKE HOPE 1

MUTEROO 1

KIRRALEE 1

SPENCER 1

ARRAKIS 1

BIG LAKE 1

LOWANNA 1

MUDERA 1

MINA 1

STRZELECKI 1

COOLOON 1

KIDMAN 1

MARANA 1

CARAKA 1

BARATTA 1

DILCHEE 1

KERNA 1

ALISMA 1

EPSILON 1

ROSENEATH 1

PINTARI NORTH 1

WIRRARIE 1

TOPWEE 1

POGONA 1

PINTARI 1

KARILLA 1

BOOBOOK 1

COWAN 1

MOOLALLA 1

YALCUMMA 1

WAUKATANNA 1

YAPENO 1

DEINA 1

LYCOSA 1

PANDO NORTH 1

PANDO 1

THURAKINNA 1

MANOOKA 1

MERINDA 1

PANDRUANNIE 1

BOXWOOD 1

KULIANI 1

WANCOOCHA 1

DIRKALGARANJANIE 1

PINNA 1

JENA 1

KALANNA 1

GOYDER 1

KERINNA 1

MURTEREE 1

MUDLALEE 1

CHILDIE 1

CHILCARRIE 1

TARWONGA 1

VERBENA 1

METTIKA 1

MARSILEA 1

AMYEMA 1

BRUMBY 1

BARCOOLOO 1

TOOLACHEE 1

KEETO 1

MUNKARIE 1

GLIMMA 1

MCKINLAY 1

ALKOOMI 1

LIMESTONE CREEK 1

AZOLLA 1

WIRHA 1

COOBOWIE 1

MUNKARIE SOUTH 1

GIDGEE 1

EGLINT 1

MUNRO 1

BATTUNGA 1

NUNGEROO 1

KIWARRICK 1

WUROOPIE 1

DUNOON 1

KOBARI 1

OMICRON 1

UNIT 5 ABSENT

SOURCE DIRECTION

29 | 139 15 | 139 30 | 140 | 140 30 | 141

PATCHAWARRA FORMATION

UNIT 5

SANDSTONE PERCENTAGE MAP

UNIT 5 ABSENT

SOURCE DIRECTION

KILOMETRES 10 0 10 20 30 40 50 KILOMETRES

C.I. 5 0 10 20 MILES

ENCLOSURE 3.1d

090 PH
A634
MAPS
c.2

UNIVERSITY OF ADELAIDE LIBRARY

139 15 | 139 30 | 140 | 140 30 | 141

30 | 28 | 28 30 | 29

UNIT 4 ABSENT

UNIT 4 ABSENT

THICK

PRE-PERMIAN

DERAMDOKOO 1
COONGIE 1
DAEB 1
CUTTAPIRRIE 1
BEANBUSH 1
LAMDINA 1
YANTA 1
TITAN 1
MOOLION 1
MITCHIE 1
KUDRIEKE 1
DELIN 1
COONATIE 1
DARTER 1
CHARO 1
TOONMAN 1
BOOKABOURDIE 1
PACKSADDLE 1
BONDRIWEE 1
INDAMINCKA 1
CALLABONNA 1
MOORARI 1
BALCAMINGIE 1
MERLUNA 1
MINGANAH 1
BIROLGA 1
FLY LAKE 1
MUDRANGIE 1
WANTANA 1
KIRBY 1
KALLADEINA 1
TIRRAWARRA 1
SPECTRE 1
ANDREE 1
VARANUS 1
GOORANIE 1
LELEPTIAN 1
MERRIMELLA 1
PELICAN 1
WELCOME LAKE 1
YAROWINNIE 1
KANOWANA 1
BURLEY 1
MCLEOD 1
MERANJI 1
SWAN LAKE 1
COWRALLI 1
SNAKE HOLE 1
TINDILPIE 1
GIDGEALPA 1
JACK LAKE 1
THREE QUEENS 1
NORTHCORNER 1
DULLINGARI NORTH 1
DULLINGARI 1
KURUNDA 1
MOOMBA NORTH 1
DELLA 1
LAKE HOPE 1
STUART 1
MUTEROO 1
KIRRALEE 1
MOOMBA 1
EPSILON 1
TANTANNA 1
SPENCER 1
ARRAKIS 1
MUDERA 1
MINA 1
NAMUR 1
BIG LAKE 1
STRZELECKI 1
COOLOON 1
DILCHEE 1
COOCHILLA 1
KERNA 1
ALISMA 1
JENNET 1
PINTARI NORTH 1
WIRRARIE 1
TOPWEE 1
LOWANNA 1
WANARA 1
PINTARI 1
WITCHETTY 1
MOOLALEE 1
COWAN 1
CHILDIE 1
CHILCARRIE 1
MARSILEA 1
YAPENI 1
MOOLALEA 1
YALCUMMA 1
DARALINGIE 1
KALANNA 1
KERINNA 1
ANYEMA 1
GOYDER 1
MURTEREE 1
PANDO NORTH 1
DEINA 1
LYCOSA 1
MURTEREE C 1
BARCOOLOO 1
TOOLACHEE 1
PANDO 1
THURAKINNA 1
MERINDA 1
PILKETA 1
MUNKARIE 1
MANOOKA 1
PINNA 1
AZOLLA 1
GLIMMA 1
KUJANI 1
BATTUNGA 1
GIDGEE 1
BOXWOOD 1
WANCOOCHA 1
JUNGERDO 1
COOBOWIE 1
MUNKARIE SOUTH 1
UNGARI 1
PADULLA 1
KWARBOOL 1
WUROOPIE 1
DUNOON 1
KOBARI 1

100 200 300

0 10 MILES

141 | 141 30 | 142 | 142 30

26 40 | 27 | 27 30 | 28 | 28 30 | 29

BEANBUSH 1
MAHL 1
MACADAMA 1
CHALLUM 1
BALLERA 1
KARMONA 1
OKOTOKO 1
TARTULLA 1
BALLAT 1
NACCOWLAH 1
NACCOWLAH SOUTH 1
NACCOWLAH EAST 1
WACKETT 1
CHOOKOO 1
WILSON 1
JACKSON 1
KARWIN 1
KLITYO 1
PALLANO 1
INDRMINCKA 1
PACKSADDLE 1
BONDRIWEE 1
KIRBY 1
200
300
THICK
100
BURLEY 1
MCLEOD 1
THREE QUEENS 1
DULLINGARI NORTH 1
DULLINGARI 1
DELLA 1
STRZELECKI 1
DILCHEE 1
KERNA 1
ALISMA 1
WITCHETTY 1
MANARA 1
CHILDIE 1
CHILCARRIE 1
MURTEREE 1
BARCOOLOO 1
PELKETA 1
TOOLACHEE 1
MARSILEA 1
AMYEMA 1
MUNKARIE 1
AZOLLA 1
COOBOWIE 1
MUNKARIE SOUTH 1
WURDOPIE 1
OMICRON 1
PIGEON LAKE 1
ORIENTOS NORTH 1
EPSILON 1
ROSENEATH 1
HUME 1
UNIT 4 ABSENT
RHEIMS 1
MOOLIAMPAH 1
SIGMA 1
TICKALARA 1
WILLS 1
WILLS EAST 1
GLIMMA 1
EGLINT 1
GIDGEE 1
MUNRO 1
HONEYTIN 1
BELAH 1
ASHBY 1
MARRAR 1
ATOLL 1
ECHUBURRA 1
GOORA 1
ENNAPERRA 1
ELLA 1

PATCHAWARRA FM
UNIT 4 PP 2.2.1
ISOPACH MAP

SCALE: 1/500000

N

0 10 MILES C.I 100'

KILOMETRES 10 0 10 20 30 40 50 KILOMETRES

ENCLOSURE 3.1e

090PH
A639
MAPS
c.2

UNIVERSITY OF ADELAIDE LIBRARY

139 15 | 139 30 | 140 | 140 30 | 141

26 40 | 27 | 27 30 | 23 | 28 30 | 29

JAMES 1
DERAMOOKOO 1
CUTTAPIRRIE 1
BEANBUSH 1
YANTA 1
TITAN 1
CHARO 1
DARTER 1
LAMDINA 1
MOOLION 1
MITCHIE 1
DELIN 1
COONATIE 1
TOONMAN 1
CALLABONNA 1
MOORARI 1
WOOLKINA 1
BROLGA 1
MINGA 1
FLY LAKE 1
KALLADEINA 1
TIRRAWARRA 1
VARANUS 1
GOORANIE 1
ANDREE 1
LELEPTIAN 1
NULLA 1
WELCOME LAKE 1
KANOWANA 2
PELICAN 1
MELAMELIA 1
UNIT 4 ABSENT
BOOKABOURDIE 1
BIMBAYA 1
BALCAMINGA 1
MERRUPA 1
PONDRINIE 1
PACKSADDLE 1
INNAMINCKA 1
MUDRANGIE 1
WINKIE 1
PIRRAMINTA 1
WANTANA 1
KIRBY 1
BURLEY 1
MCLEOD 1
BEERANJI 1
SWAN LAKE 1
COWRALLI 1
TINDILPIE 1
SNAKE HOLE 1
JACK LAKE 1
GIDGEALPA 1
KURUNDA 1
LAKE HOPE 1
MUTEROO 1
KIRRALEE 1
JACOMBA 1
SPENCER 1
ARRAKIS 1
PINTARI NORTH 1
WIRRARIE 1
TOPWEE 1
POGONA 1
PINTARI 1
KARILLA 1
COWAN 1
BOOBOOK 1
YALCUMMA 1
MOOLALLA 1
WAUKATANNA 1
YAPENO 1
PANDO NORTH 1
PANDO 1
DENA 1
LYCOSA 1
THURAKINNA 1
MANOOKA 1
PANDRUANNIE 1
BOXWOOD 1
KUJANI 1
WANCOOCHA 1
DIRKALGARANJANIE 1
MERINDA 1
PINNA 1
KALANNA 1
GOYDER 1
KERINNA 1
MURTEREE 1
CHILDIE 1
CHILCARRIE
MUDLALEE 1
COOLDON 1
LOWANNA 1
BIG LAKE 1
MINA 1
MUDERA 1
STRZELECKI 1
DELLA 1
NAPPACOONGEE 1
THREE QUEENS 1
DULLINGARI NORTH 1
DULLINGARI 1
EPSILON 1
ROSENEATH
DILCHEE 1
KERNA 1
ALISMA 1
KIDMAN 1
MARANA 1
CARAKA 1
BARATTA 1
WITCHETTY 1
TOOLACHEE NORTH 1
METTIKA 1
MARSILEA 1
VERBENA 1
TARWONGA 1
AMYEMA 1
BRUMBY 1
TOOLACHEE 1
BARCOOLOO 1
KEETO 1
MARANKA 1
MUNKARIE 1
AZOLLA 1
WIRHA 1
COOBOWIE 1
MUNKARIE SOUTH 1
GLIMMA 1
GIDGEE 1
EGLINT 1
MUNRO 1
WILLS 1
OMICRON
MCKINLAY 1
KUDRIED 1
LIMESTONE CREEK 1
NUNGEROO 1
BATTUNGA 1
KIWARRICK 1
DUNOON 1
KOBARI 1
WUROOPIE 1
UNIT 4 ABSENT
UNIT 4 ABSENT

20 30 40 60 80 95

SOURCE DIRECTION

140 30 | 141 | 141 30 | 142 | 142 30

26 40 | 27 | 27 30 | 28 | 28 30 | 29

COOK 1
JAMES 1
TOBY 1
BARROLKA 1
DERAMOOKOO 1
BEANBUSH 1
MACADAMA 1
TALLALIA 1
CHALLUM 1
BALLERA 2
TARTULLA 1
MUNKAH 1
JUDGA 1
BALLAT 1
YANDA 1
WACKETT 1
NACCOWLAH 1
NACCOWLAH EAST 1
NACCOWLAH SOUTH 1
KARRI 1
CHOOKOO 5
INNAMINCKA 1
PACKSADDLE 1
BOOKABOURDIE 1
PONDRINIE 1
KARWIN 1
JACKSON 1
KIRBY 1
KUTYO 1
PALLANO 1
BARYULAH 1
BURLEY 1
MCLEOD 1
CORELLA 1
ECHUBURRA 1
GOORA 1
DINGERA 1
THREE QUEENS 1
NAPPACCONGEE 1
DULLINGARI NORTH 1
DELLA 1
DULLINGARI 1
LAMBDA 1
ORIENTOS NORTH 1
ORIENTOS 1
THOAR 1
UNIT 4 ABSENT
HUME 1
ELLA 1
EPSILON 1
ROSENEATH 1
MUDERA 1
MINA 1
STRZELECKI 1
COOLOON 1
MARANA 1
KIDMAN 1
DILCHEE 1
KERNA 1
ALISMA 1
BELAH 1
ASHBY 1
MARRAR 1
RHEIMS 1
CARAKA 1
BARATTA 1
WITCHETTY 1
TOOLACHEE NORTH 1
MUDLALEE
CHILDIE 1
CHILCARRIE
TARWONGA 1
VERBENA 1
METTIKA 1
MARSILEA 1
MOOLIAMPAH 1
HYDRA 1
SIGMA 1
TICKALARA 1
WILLS 1
KERINNA 1
GOYDER 1
AMYEMA 1
WILLS EAST 1
MURTEREE 1
BRUMBY 1
ATOLL 1
BARCOOLOO 1
TOOLACHEE 1
WOMPAH 1
KEETO 1
MUNKARIE 1
GLIMMA 1
MCKINLAY 1
MIDDLEMIST CREEK 1
AZOLLA 1
GIDGEE 1
EGLINT 1
MUNRO 1
HONEYTIN 1
BATTUNGA 1
WIRHA 1
COOBOWIE 1
MUNKARIE SOUTH 1
WUROOPIE 1
OMICRON 1
PIGEON LAKE 1

65 | 46 | 84 | 51 | 45 | 39 | 21 | 20 | 18 | 28 | 30 | 40 | 35

PATCHAWARRA FORMATION

UNIT 4

SANDSTONE PERCENTAGE MAP

SOURCE DIRECTION

KILOMETRES 10 0 10 20 30 40 50 KILOMETRES

C.I. 10

0 10 20 MILES

N

ENCLOSURE 3.1f

090 PH
A639
MAPS
C.2

UNIVERSITY OF ADELAIDE
LIBRARY

139 15 | 139 30 | 140 | 140 30 | 141

25 40 | 27 | 27 30 | 28 | 28 30 | 29

UNIT 3 ABSENT

UNIT 3 ABSENT

THICK

DERAMOGKOO 1
COONGIE 1
DAEB
CUTTAPIRRIE 1
BEANBUSH 1
YANTA 1
TITAN 1
LAMDINA 1
MOOLION 1
CHARO 1
MITCHIE 1
DARTER 1
KUDRIEKE 1
DELIN 1
COONATIE 1
TOONMAN 1
BOOKABOURDIE 1
BIMBAYA 1
CALLABONNA 1
MOORARI 1
BALCAMINGA 1
MERUPA 1
PONDRINIE 1
PACKSADDLE 1
INDRAMINCKA 1
MINGANIE 1
BROLGA 1
MUDRANGIE 1
WANTANA 1
FLY LAKE 1
KALLADEINA 1
TIRRAWARRA 1
KIRBY 1
SPECTRE 1
VARANUS 1
GOORANIE 1
ANDREE 1
LEEPTIAN 1
MERRIMELIA 1
WELCOME LAKE 1
YAROWIGHE 1
KANOWANA 1
PELICAN 1
BURLEY 1
MCLEOD 1
MERANJI 1
SWAN LAKE 1
COWRALLI 1
SNAKE HOLE 1
TINDILPIE 1
GIDGEALPA 1
JACK LAKE 1
KURUNDA 1
MOOMBA NORTH 1
THREE QUEENS 1
NAPPACOONGEE 1
WILPINNIE 1
DELLA 1
DULLINGARI NORTH 1
DULLINGARI 1
MOOMBA 1
LAKE HOPE 1
STURT
TANTANNA 1
MUTEROO 1
KIRRALEE 1
SPENCER 1
ARRAKIS 1
BIG LAKE 1
NAMUR 1
MINA
MUDERA 1
MARABOOKA 1
STRZELECKI 1
ARGONA 1
DILCHEE 1
COOCHILLA 1
KERNA 1
ALISMA 1
LOWANNA 1
COOLOON 1
JENNET 1
PINTARI NORTH 1
WIRRARIE 1
TOPWEE 1
PINTARI 1
KARILLA 1
WANARA 1
WITCHETTY 1
MODALEE 1
COWAN 1
YALCUMMA 1
MOOLALLA 1
KALANNA 1
GOYDER 1
CHILCARRIE 1
MARSILEA 1
AMYEMA 1
YAPENI 1
DARALINGIE 1
KERINNA 1
MURTEREE 1
PANDO NORTH 1
DEINA 1
LYCOSA 1
MURTEREE C 1
BARCOOLOO 1
TOOLACHEE 1
PANDO 1
THURAKINNA 1
MERINDA 1
KEETO 1
MANOOKA 1
PINNA 1
MCKINLAY 1
MUNKARIE 1
AZOLLA 1
KILLIANI 1
ALKOOMI
LIMESTONE CREEK 1
COOBOWIE 1
GIDGEE 1
BOXWOOD 1
WANCOOCHA 1
JENA 1
BATTUNGA 1
MUNKARIE SOUTH 1
NUNGEROO 1
PADULLA 1
KWARBOOL 1
UNGARI 1
WURDOPIE 1
DUNOON 1
KOBARI 1

100 200 300 400 500

0 10 M

141 | 141 30 | 142 | 142 30

26 40 | 27 | 27 30 | 28 30 | 29 | 30

UNIT 3 ABSENT

THICK

200 | 100 | 100 | 100

DERAMOOKOO 1 | BEANBUSH 1 | MAHL 1 | MACADAMA 1 | CHALLUM 1 | TARTULLA 1 | KARMONA 1 | OKOTOKO 1 | BALLERA 1 | BALLAT 1 | WACKETT 1 | NACCOWLAH 1 | NACCOWLAH SOUTH | NACCOWLAH EAST 1 | CHOOKOO 1 | WILSON 1 | JACKSON 1 | KARWIN 1 | KUTYO 1 | PALLANO 1 | ECHUBURRA 1 | GOORA 1 | ELLA 1 | MARRAR 1 | ATOLL 1 | NARYILCO 1 | HONEYTIN 1

KABOURDIE 1 | PONDRINIE 1 | PACKSADDLE 1 | KIRBY 1 | INKAMINCKA 1

BURLEY 1 | MCLEOD 1 | THREE QUEENS 1 | NAPPACOONGEE 1 | WILPINNIE 1 | DELLA 1 | DULLINGARI NORTH 1 | DULLINGARI 1 | ORIENTOS NORTH 1 | LAMBDA 1 | ORIENTOS 1 | HUME 1 | EPSILON 1 | ROSENEATH 1 | BELAH 1 | ASHBY 1 | RHEIMS 1 | MOOLIAMPAH 1 | SIGMA 1 | TICKALARA 1 | WILLS 1 | WILLS EAST 1 | GLIMMA 1 | GIDGEE 1 | EGLINT 1 | MUNRO 1 | AZOLLA 1 | COOBOWIE 1 | MUNKARIE SOUTH 1 | MUNKARIE 1 | KEETO 1 | TOOLACHEE 1 | BARCOOLOO 1 | MURTEREE 1 | KERINNA 1 | CHILCARRIE 1 | MARSILEA 1 | AMYEMA 1 | WITCHETTY 1 | MODALEE 1 | WANARA 1 | COOLOON 1 | STRZELECKI 1 | ARDONA 1 | COOCHILLA 1 | DILCHEE 1 | KERNA 1 | ALISMA 1 | MUDERA 1 | MARABOOKA 1 | MINA 1 | KINLAY 1 | BATTUNGA 1 | WUROOPIE 1 | OMICRON 1 | PIGEON LAKE 1

0 10 MILES C.I. 100'

KILOMETRES 10 0 10 20 30 40 50 KILOMETRES

PATCHAWARRA FM

UNIT 3 PP 2.2.2

ISOPACH MAP

ENCLOSURE 3.1g

090 PH
A639
MAPS
c.2

UNIVERSITY OF ADELAIDE LIBRARY

139 15 | 139 30 | 140 | 140 30 | 141

26 40 | 27 | 27 30 | 23 | 28 30 | 29

JAMES 1
DERAMOOKOO 1
CUTTAPIRRIE 1
BEANBUSH 1
LAMDINA 1
YANTA 1
TITAN 1
MOOLION 1
CHARO 1
MITCHIE 1
DARTER 1
DELIN 1
COONATIE 1
TOONMAN 1
BOOKABOURDIE 1
BIMBAYA 1
BALCAMINGA 1
MERUPA 1
PONDRINIE 1
PACKSADDLE 1
INNAMINCKA 1
CALLABONNA 1
KALLADEINA 1
WOOLKINA 1
PIRRAMINTA 1
MUDRANGIE 1
WANTANA 1
KIRBY 1
FLY LAKE 1
TIRRAWARRA 1
UNIT 3 ABSENT
VARANUS 1
GOORANIE 1
ANDREE 1
LELEPTIAN 1
NULLA 1
WELCOME LAKE 1
KANOWANA 2
MERRIMELIA 1
BURLEY 1
MCLEOD 1
SWAN LAKE 1
GERANJI 1
COWRALLI 1
TINDILPIE 1
SNAKE HOLE 1
GIDGEALPA 1
JACK LAKE 1
LYCIUM 1
KURUNDA 1
MOOMBA NORTH 1
MOOMBA 1
KIRRALEE 1
LAKE HOPE 1
MUTEROO 1
SPENCER 1
ARRAKIS 1
BIG LAKE 1
LOWANNA 1
COOLOON 1
MUDERA 1
MINA 1
STRZELECKI 1
MARANA 1
THREE QUEENS 1
NAPPACOONGEE 1
POORAKA 1
WILPINNIE 1
DULLINGARI NORTH 1
DULLINGARI 1
DELLA 1
DILCHEE 1
KIDMAN 1
KERNA 1
ALISMA 1
CARAKA 1
BARATTA 1
WITCHETTY 1
TOOLACHEE NORTH 1
METTIKA 1
VERBENA 1
MARSILEA 1
AMYEMA 1
BRUMBY 1
TOOLACHEE 1
BARCOOLOO 1
KEETO 1
MUNKARIE 1
AZOLLA 1
COOBOWIE 1
MUNKARIE SOUTH 1
WIRHA 1
GIDGEE 1
EPSILO
PINTARI NORTH 1
PINTARI 1
KARILLA 1
WIRRARIE 1
TOPWEE 1
POGONA 1
BOOBOOK 1
COWAN 1
YALCUMMA 1
MOOLALLA 1
WAUKATANNA 1
YAPENDI 1
BARANGIE 1
DEINA 1
LYCOSA 1
THURAKINNA 1
PANDO NORTH 1
PANDO 1
MANOOKA 1
PANDRUANNIE 1
BOXWOOD 1
KILIANI 1
WANCOOCHA 1
DIRKAL GARANJANIE 1
MERINDA 1
PINNA 1
JENA 1
NUNGEROO 1
KIWARRICK 1
DUNOON 1
KOBARI 1
MCKINLAY 1
ALKOOM 1
LIMESTONE CREEK 1
BATTUNGA 1
MUDLALEE 1
CHILDIE 1
CHILCARRIE 1
TARWONGA 1
KERINNA 1
MURTEREE 1
GOYDER 1
KALANNA 1
MUIROOPIE 1

SOURCE DIRECTIO

141 | 141 30 | 142 | 142 30

26 40 | 27 | 27 30 | 28 | 28 30 | 29

COOK 1
JAMES 1
TOBY 1
BARROLKA 1
TARTULLA 1
MACADAMA 1
BEANBUSH 1
MAHL 1
TALLALIA 1
CHALLUM 1
BALLERA 2
MUNKAH 1
JUDGA 1
BALLAT 1
YANDA 1
WACKETT 1
NACCOWLAH 1
NACCOWLAH EAST 1
NACCOWLAH SOUTH 1
KARRI 1
CHOOKOO 5
INNAMINCKA 1
PACKSADDLE 1
PONDRINIE 1
KARWIN 1
KUTYO 1
PALLANO 1
KIRBY 1
BARYULAH 1
NATANIA 1
CORELLA 1
ECHUBURRA 1
BURLEY 1
MCLEOD 1
GOORA 1
DINGERA 1
THREE QUEENS 1
ORIENTOS NORTH 1
THOAR 1
ORIENTOS 1
WILPINNIE 1
DULLINGARI NORTH 1
ELLA 1
DELLA 1
HUME 1
DULLINGARI 1
EPSILON 1
ROSENEATH 1
MARRAR 1
STRZELECKI 1
DILCHEE 1
KERNA 1
KIDMAN 1
BELAH 1
ASHBY 1
MARANA 1
ALISMA 1
RHEIMS 1
CARAKA 1
BARATTA 1
WITCHETTY 1
TOOLACHEE NORTH 1
TICKALARA 1
METTIKA 1
CHILDIE 1
VERBENA 1
WILLS 1
TARWONGA 1
MARSILEA 1
CHILCARRIE 1
AMYEMA 1
WILLS EAST 1
ATOLL 1
BRUMBY 1
BARCOOLOO 1
TOOLACHEE 1
WOMPAH 1
GLIMMA 1
KEETO 1
MUNKARIE 1
AZOLLA 1
EGLINT 1
GIDGEE 1
MUNRO 1
HONEYTIN 1
WIRHA 1
COOBOWIE 1
MUNKARIE SOUTH 1
WUROOPIE 1
OMICRON 1
PIGEON LAKE 1

UNIT 3 ABSENT

30 20 40

41 48 39 33 22 21

PATCHAWARRA FORMATION

UNIT 3

SANDSTONE PERCENTAGE MAP

N

SOURCE DIRECTION

KILOMETRES 10 0 10 20 30 40 50 KILOMETRES

0 10 20 MILES

ENCLOSURE 3.1h

090PH
A639
MAPS
c.2

UNIVERSITY OF ADELAIDE

139 15 139 30 140 140 30 141 141 30 142 142 30

26 40 27 27 30 28 28 30 29

UNIT 2 ABSENT

UNIT 2 ABSENT

THICK

MOOMBA

DELLA

UNIT 2 ABSENT

DARALINGIE

TOOLACHEE

UNIT 2 ABSENT

UNIT 2 ABSENT

100 200 300 400

PATCHAWARRA FM
UNIT 2 PP 2.2.3
ISOPACH MAP

C.I. 100'

0 10 MILES

KILOMETRES 10 0 10 20 30 40 50 KILOMETRES


139 15
139 30
140
140 30
141
141 30
142
142 30
26 40
27
27 30
28
28 30
29
COOK 1
TOBY 1
JAMES 1
BARROKKA 1
LYDIUM 1
UNIT 2 ABSENT
UNIT 2 ABSENT
UNIT 2 ABSENT
UNIT 2 ABSENT
GIDGEALPA
MOOMBA
DELLA
50
40
30
20
60
80
70
90
10
PATCHAWARRA FORMATION
UNIT 2
SANDSTONE PERCENTAGE MAP
SOURCE DIRECTION
KILOMETRES 10 0 10 20 30 40 50 KILOMETRES
0 10 20
MILES

139 15 139 30 140 140 30 141 141 30 142 142 30

26 40 27 27 30 28 28 30 29

UNIT 1 ABSENT

THICK

GIDGEALPA

DARALINGIE

MOOMBA

DELLA

TOOLACHEE

100 200 300

PATCHAWARRA FM
UNIT 1 PP 3.1–3.2
ISOPACH MAP

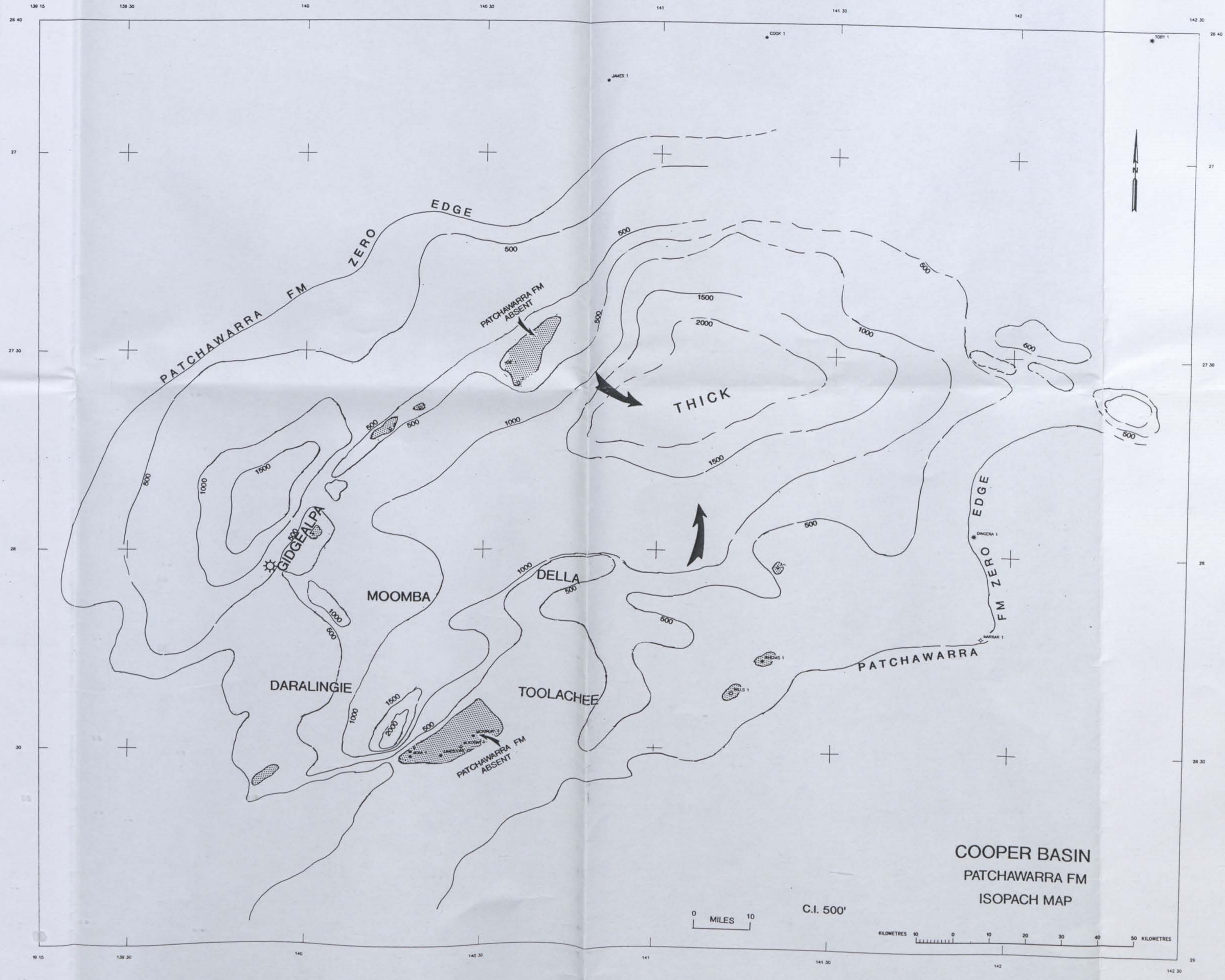
SCALE: 1/500000

0 10 MILES

KILOMETRES 10 0 10 20 30 40 50 KILOMETRES

C.I. 100'


139 15
139 30
140
140 30
141
141 30
142
142 30
26 40
27
27 30
28
28 30
29
COOK 1
TOBY 1
LAMBDA 1
UNIT 1 ABSENT
UNIT 1 ABSENT
UNIT 1 ABSENT
GIDGEALPA
MOOMBA
DELLA
DARALINGIE
TOOLACHEE
PRE-PERMIAN
20
30
40
50
37
21
52
PATCHAWARRA FORMATION
UNIT 1
SANDSTONE PERCENTAGE MAP
C.I. 10
KILOMETRES 10 0 10 20 30 40 50 KILOMETRES
0 10 20
MILES



COOPER BASIN

PATCHAWARRA FM

ISOPACH MAP

COOPER BASIN LIMIT

PATCHAWARRA FM (UNIT 5) ZERO EDGE

TIRRAWARRA SS ZERO EDGE

PATCHAWARRA FM UNIT 4 ZERO EDGE

PATCHAWARRA FM (UNIT 3) ZERO EDGE

U D

FLY LAKE

TIRRAWARRA

BOOKABOURDIE

MERRIMELIA

PONDRINIE

INNAMINCKA

CHALLUM

NACCOWLAH

JACKSON

TIRRAWARRA SS ZERO EDGE

PATCHAWARRA FM (UNIT 5) ZERO EDGE

PATCAHAWARRA FM (UNIT 3) ZERO EGDE

UNIT 4

GIDGEALPA

MOOMBA

SPENCER

BIG LAKE

DELLA

STRZELECKI

DARALINGIE

MURTEREE HIGH

DULLINGARI

EPSILON

TOOLACHEE

COOPER BASIN

PATCHAWARRA FM

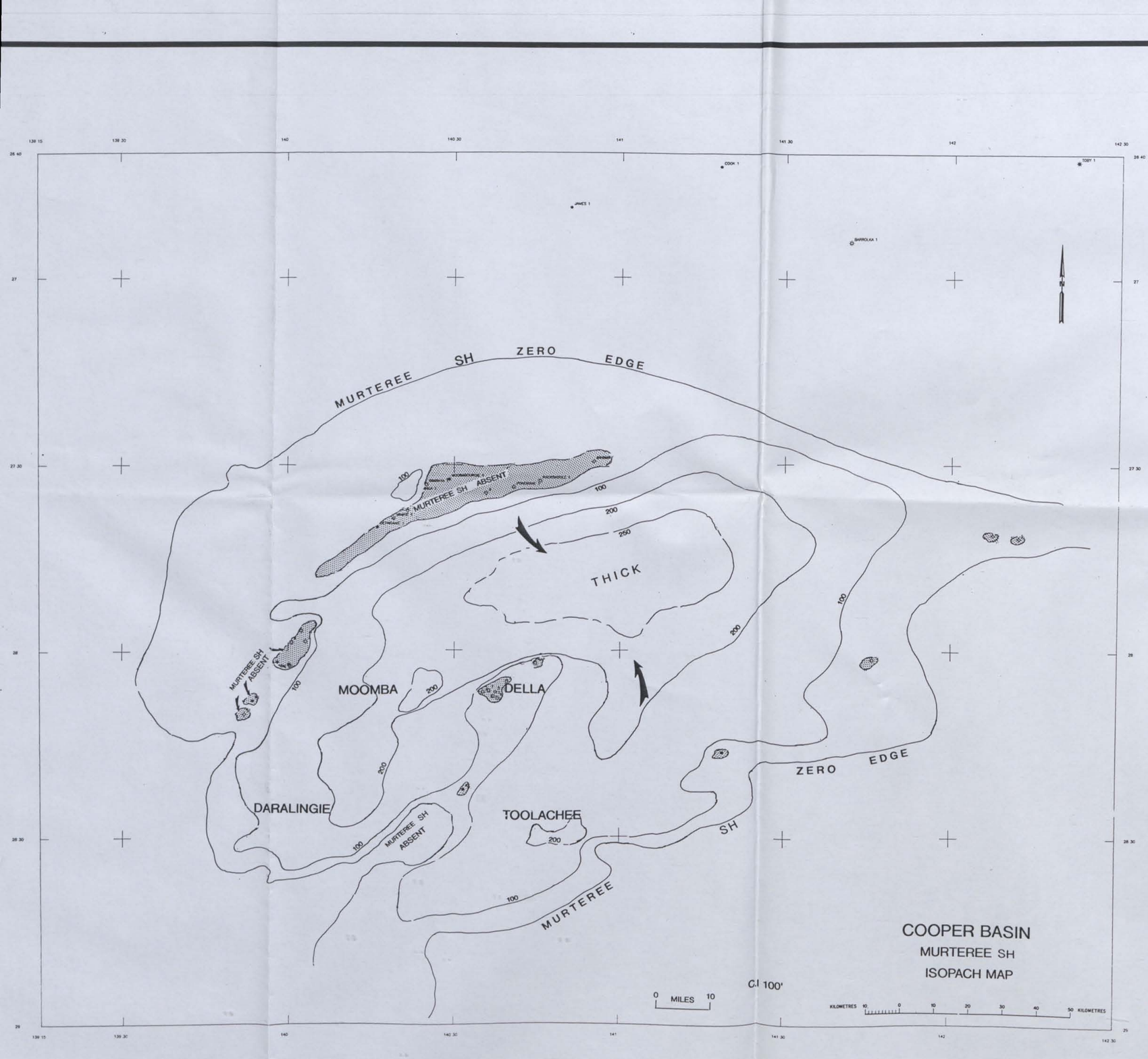
STRUCTURAL MAP

PP 2.2.2 & PP 2.1 TIME

N

0 MILES 10

KILOMETRES 10 0 10 20 30 40 50 KILOMETRES


138 15
138 30
140
140 30
141
141 30
142
142 30
26 40
27
27 30
28
28 30
29
COOK 1
JAMES 1
BARROLKA 1
TOBY 1
MURTEREE SH ZERO EDGE
MURTEREE SH ABSENT
100
200
250
THICK
MURTEREE SH ABSENT
MOOMBA
DELLA
DARALINGIE
MURTEREE SH ABSENT
TOOLACHEE
ZERO EDGE
MURTEREE SH
COOPER BASIN
MURTEREE SH
ISOPACH MAP
C.I 100'
0 MILES 10
KILOMETRES 10 0 10 20 30 40 50 KILOMETRES

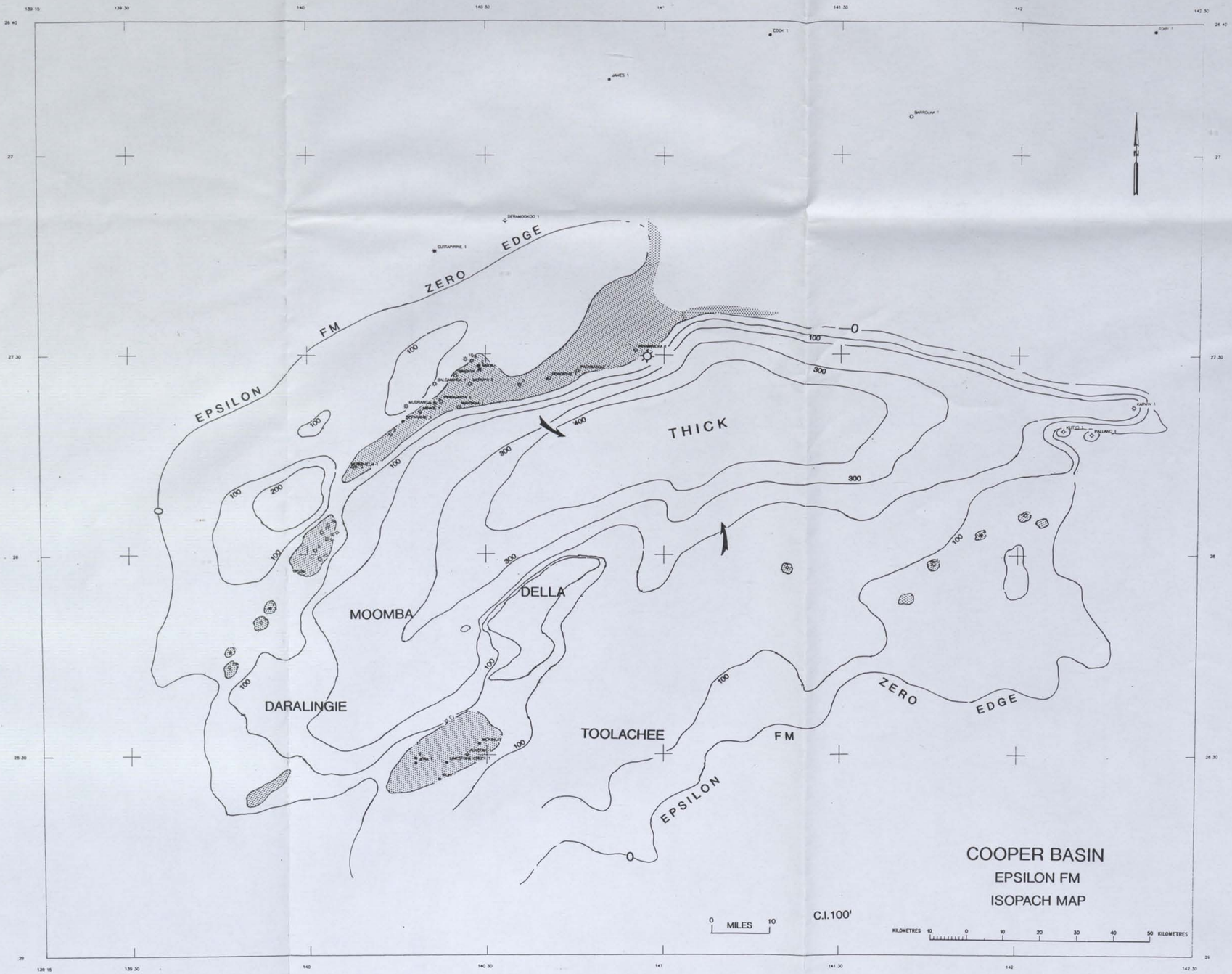
COOPER BASIN

FORMATIONS ISOPACH

&

STRUCTURAL MAPS

MONTAGE



ENCLOSURE 3.2

090PH
A639
MAPS
C2

UNIVERSITY OF ADELAIDE LIBRARY

139 15 | 139 30 | 140 | 140 30 | 141

26 40 | 27 | 27 30 | 28 | 28 30 | 29

UNIT 2 ABSENT

UNIT 2 ABSENT

UNIT 2 ABSENT

UNIT 2 ABSENT

THICK

DERAMOOKOO 1
CUTTAPIRRIE 1
BEANBUSH 1
LAMDINA 1
YANTA 1
TITAN 1
CHARO 1
DARTER 1
MOOLION 1
MITCHIE 1
KUDRIEKE 1
DELIN 1
TOONMAN 1
COONATIE 1
CALLABONNA 1
MOORARI 1
MINGANNI 1
BROLGA 1
FLY LAKE 1
KALLADEINA 1
TIRRAWARRA 1
MUDRANGIE
WANTANA 1
BOOKABOOKOOKA 1
BIMBAYA 1
BALCAMINNA 1
MERLIYA 1
PONDRINIE 1
PACKSADDLE 1
INDRAMINCKA 1
KIRBY 1
VARANUS 1
GOORANIE 1
ANDREE 1
LEEPTIAN 1
WELCOME LAKE 1
YAROWINNIE 1
KANOWANA 1
PELICAN 1
MERRIVELLA 1
BURLEY 1
MCLEOD 1
MERANJI 1
SWAN LAKE 1
COWRALLI 1
TINDILPIE 1
SNAKE HOLE 1
JACK LAKE 1
GIDGEALPA 1
KURUNDA 1
MOOMBA NORTH 1
THREE QUEENS 1
NAPPACOONGEE 1
WILPINNIE 1
DULLINGARI NORTH 1
DULLINGARI 1
DELLA 1
LAKE HOPE 1
STURT
TANTANNA 1
MUTEROO 1
KIRRALEE 1
SPENCER 1
ARRAKIS 1
MOOMBA 1
NAMUR 1
MUDERA 1
MARABOOKA 1
MINTA
BIG LAKE 1
LOWANNA 1
STRZELECKI 1
AROONA 1
COOCHILLANA 1
DILCHEE 1
KERNA 1
ALSOMA 1
JENNET 1
PINTARI NORTH 1
PINTARI 1
TOPWEE 1
KARILLA 1
COOLOON 1
WANARA 1
CARAKA 1
BARATTA
WITCHETTY 1
COWAN 1
MOOLALLA 1
YALCUMMA 1
MOOLALEE 1
CHILDIE 1
CHILCARRIE 1
MARSILEA 1
AMYEMA 1
YAPENI 1
DARALINGIE 1
DEENA 1
LYCOSA 1
KALANNA 1
GOYDER 1
KERINNA 1
MURITEREE 1
MURITEREE C 1
PANDO NORTH 1
PANDO 1
THURAKINNA 1
MANOOKA 1
MERINDA 1
PINNA 1
BARCOOLOO 1
POLKETA 1
KEETO 1
TOOLACHEE 1
MUNKARIE 1
AZOLLA 1
MARAKU 1
COOBOWIE 1
MUNKARIE SOUTH 1
KOLIANI 1
MANCOOCHA 1
BOXWOOD 1
PADULLA 1
DUNOON 1
KOBARI 1
KIWARBUK 1
UNGARI 1
BATTUNGA 1
WUROOPIE 1
MCKINLAY 1
NUCCA 1
LIMESTONE CREEK 1
JENA
JUMBEROO 1

100
200
300
400

141 | 141 30 | 142 | 142 30 | 26 40 | 27 | 27 30 | 28 | 28 30 | 29

MACADAMA 1
MAHL 1
CHALLUM 1
TARTULLA 1
KARMONA 1
OKOTOKO 1
BALLERA 1
BALLAT 1
NACCOWLAH 1
WACKETT 1
NACCOWLAH SOUTH 1
NACCOWLAH EAST 1
CHOOKOO 1
WILSON 1
JACKSON 1
KARWIN 1
KUTYO 1
PALLANO 1
ECHUBURRA 1
GOORA 1
ZYPAPERRA 1
ELLA 1
MARRAR 1
ATOLL 1
NARYILCO 1
HONEYTIN 1
PACKSADDLE 1
KIRBY 1
THICK
MCLEOD 1
THREE QUEENS 1
NAPPACOONGEE 1
WILPINNIE 1
DULLINGARI NORTH 1
DULLINGARI 1
ORIENTOS NORTH 1
LAMBDA 1
ORIENTOS 1
HUME 1
EPSILON 1
ROSSENGATH 1
100
300
200
DILCHEE 1
COOCHILLA 1
KERNA 1
ALISMA 1
ARDONA 1
CARAKA 1
WITCHETTY 1
RHEIMS 1
BELAH 1
ASHBY 1
MOOLIAMPAH 1
SIGMA 1
TICKALARA 1
WILLS 1
WILLS EAST 1
MARSILEA 1
AMYEMA 1
TOOLACHEE 1
MUNKARIE 1
CLIMMA 1
AZOLLA 1
MARAKU 1
COOBOWIE 1
MUNKARIE SOUTH 1
GIDGEE 1
EGLINT 1
MUNRO 1
UNIT 2 ABSENT
OMICRON 1
PIGEON LAKE 1

PATCHAWARRA FM
UNIT 2 PP 2.2.3
ISOPACH MAP

C.I. 100'

0 10 MILES

KILOMETRES 10 0 10 20 30 40 50 KILOMETRES

N

ENCLOSURE 3.2a

090PH
A639
MAPS
c.2

UNIVERSITY OF ADELAIDE
LIBRARY

139 15 | 139 30 | 140 | 140 30 | 141

26 40 | 27 | 27 30 | 28 | 28 30 | 29

UNIT 2 ABSENT

UNIT 2 ABSENT

UNIT 2 ABSENT

UNIT 2 ABSENT

SOURCE

JAMES 1
DERAMOOKOO 1
CUTTAPIRRIE 1
BEANBUSH 1
YANTA 1
TITAN 1
CHARO 1
DARTER 1
LAMDINA 1
MOOLION 1
MITCHIE 1
DELIN 1
TOONMAN 1
COONATIE 1
INNAMINCKA 1
PACKSADDLE 1
PONDRINIE 1
CALLABONNA 1
MOORARI 1
WOOLKINA 1
BROLGA 1
MINGANA 1
FLY LAKE 1
KALLADEINA 1
TIRRAWARRA 1
WANTANA 1
KIRBY 1
ANDREE 1
VARANUS 1
GOORANIE 1
LEEPTIAN 1
NULLA 1
WELCOME LAKE 1
KANOWANA 2
MERRIMELIA 1
BURLEY 1
MCLEOD 1
SWAN LAKE 1
COWRALLI 1
SNAKE HOLE 1
TINDILPIE 1
JACK LAKE 1
GIDGEALPA 1
LYONS 1
MAWSON 1
KOMUNDA 1
MOOMBA NORTH 1
LAKE HOPE 1
MUTEROO 1
KIRRALEE 1
SPENCER 1
ARRAKIS 1
MOOMBA 1
BIG LAKE 1
LOWANNA 1
PINTARI NORTH 1
WIRRARIE 1
PINTARI 1
KARMA 1
POGONA 1
BOOBOOK 1
OWAN 1
YAPENI 1
YALCUMMA 1
WAUKATANNA 1
PANDO NORTH 1
PANDO 1
LYCOSA 1
THURAKINNA 1
MANOOKA 1
MERINDA 1
PANDRUANNIE 1
BOXWOOD 1
KUJANI 1
WANCOOCHA 1
DIRKALGARANJANIE 1
PINNA 1
MCKINLAY 1
ALKOOMI 1
LIMESTONE CREEK 1
NUNGSTOD 1
KIWARRICK 1
DUNOON 1
KOBARI 1
BATTUNGA 1
WUROOPIE 1
THREE QUEENS 1
NAPPACOONGEE 1
POORAKA 1
WILPINNIE 1
DELLA 1
DULLINGARI NORTH 1
DULLINGARI 1
MUDERA 1
MINA 1
STRZELECKI 1
COOLOON 1
MARANA 1
DILCHEE 1
KERNA 1
ALISMA 1
KIDMAN 1
WANARANNIMA 1
CARAKA 1
BARATTA 1
WITCHETTY 1 NORTH 1
METTIKA 1
MARSILEA 1
VERBENA 1
TARWONGA 1
MUDLALEE 1
CHILDIE 1
CHILCARRIE 1
KALANNA 1
GOYDER 1
KERINNA 1
MURTEREE 1
AMYEMA 1
BRUMBY 1
TOOLACHEE 1
BARCOOLOO 1
KEETO 1
MIDARANKA 1
MUNKARIE 1
AZOLLA 1
WIRHA 1
COOBOWIE 1
MUNKARIE SOUTH

141 · 141 30 · 142 · 142 30 · 26 40 · 27 · 27 30 · 28 · 28 30 · 29

COOK 1 · JAMES 1 · TOBY 1 · BARROLKA 1 · MOOKOO 1 · BEANBUSH 1 · MAHL 1 · MACADAMA 1 · TALLALIA 1 · CHALLUM 1 · INNAMINCKA 1 · PACKSADDLE 1 · PONDRINIE 1 · KIRBY 1 · TARTULLA 1 · OKOTOKO 1 · BALLERA 2 · MUNKAH 1 · JUDGA 1 · BALLAT 1 · YANDA 1 · WACKETT 1 · NACCOWLAH 1 · NACCOWLAH EAST 1 · NACCOWLAH SOUTH 1 · KARRI 1 · CHOOKOO 5 · KARWIN 1 · KUTYO 1 · PALLANO 1 · BARYULAH 1 · BURLEY 1 · MCLEOD 1 · NATALIA 1 · CORELLA 1 · ECHUBURRA 1 · DINGERA 1 · THREE QUEENS 1 · NAPPACOONGEE 1 · POORAKA 1 · WILPINNIE 1 · DULLINGARI NORTH 1 · DELLA 1 · DULLINGARI 1 · ORIENTOS NORTH 1 · LAMBDA 1 · EPSILON 1 · ROSENEATH 1 · THOAR 1 · HUME 1 · ELLA 1 · MARRAR 1 · DILCHEE 1 · KERNA 1 · KIDMAN 1 · ALISMA 1 · STRZELECKI 1 · MARANA 1 · CARAKA 1 · BARATTA 1 · WITCHETTY 1 NORTH 1 · BELAH 1 · ASHBY 1 · RHEIMS 1 · METTIKA 1 · VERBENA 1 · MARSILEA 1 · TARWONGA 1 · CHILDIE 1 · CHILCARRIE 1 · AMYEMA 1 · BRUMBY 1 · MOOLIAMPAH 1 · HYDRA 1 · TICKALARA 1 · WILLS 1 · WILLS EAST 1 · ATOLL 1 · WOMPAH 1 · BARCOOLOO 1 · TOOLACHEE 1 · KEETO 1 · MUNKARIE 1 · GLIMMA 1 · GIDGEE 1 · EGLINT 1 · MUNRO 1 · AZOLLA 1 · COOBOWIE 1 · MUNKARIE SOUTH 1 · WIRHA 1 · HONEYTIN 1 · WUROOPIE 1 · OMICRON 1 · PIGEON LAKE 1

UNIT 2 ABSENT

PATCHAWARRA FORMATION

UNIT 2

SANDSTONE PERCENTAGE MAP

SOURCE DIRECTION

KILOMETRES 10 0 10 20 30 40 50 KILOMETRES

0 10 20 MILES

N

ENCLOSURE 3.2b

Q90 PH
A639
MAPS
c.2

UNIVERSITY OF ADELAIDE LIBRARY

139 15 | 139 30 | 140 | 140 30 | 141

6 40 | 27 | 27 30 | 28 | 28 30 | 29

UNIT 1 ABSENT

THICK

100 | 200 | 300

DERAMOCKCO 1 | COOKIE 1 | CUTTAPIRRIE 1 | BEANBUSH 1 | LAMDINA 1 | YANTA 1 | TITAN 1 | CHARO 1 | DARTER 1 | MODUON 1 | MITCHIE 1 | KUDRIEKE 1 | DELPI 1 | TOONMAN 1 | COONATIE 1 | CALLABONNA 1 | MOORARI 1 | BROLGA 1 | MINGRAMA 1 | FLYBLOW 1 | KALLADEINA 1 | TIRRAWARRA 1 | SPECTRE 1 | VARANUS 1 | GOORANIE 1 | LELEPPINA 1 | WELCOME LAKE 1 | YAROWUNIE 1 | KALOWANA 1 | FELICITY 1 | MERANJI 1 | SWAN LAKE 1 | COWRALLI 1 | TINDILPIE 1 | SNAKE HOLE 1 | JACK LAKE 1 | GIDGEALPA 1 | KURUNGOORAN 1 | MOOMBA NORTH 1 | LAKE HOPE 1 | STURT 1 | TANTANNA 1 | MUTEROO 1 | SPENCER 1 | KIRRALEE 1 | ARRAKIS 1 | JENNET 1 | PINTARI NORTH 1 | WIRRARIE 1 | TOPWEE 1 | PINTARI 1 | KARILLA 1 | COWAN 1 | MOOLALLA 1 | YALCUMMA 1 | YAPENO 1 | DARALINGIE 1 | DEINA 1 | LYCOSA 1 | PANDO NORTH 1 | PANDO 1 | THURAKINNA 1 | KORBEL 1 | MANOOKA 1 | BOXWOOD 1 | KUJANI 1 | DIRKALA 1 | WANCOOCHA 1 | MOOMBA 1 | BIG LAKE 1 | NAMUR 1 | LOWANNA 1 | MERINDA 1 | PINNA 1 | KALANNA 1 | GOYDER 1 | MURTEREE C 1 | MURTEREE 1 | MCKINLAY 1 | ADOOMA 1 | LIMESTONE CREEK 1 | BATTUNGA 1 | KANGARILLA 1 | DUNOON 1 | KOBARI 1 | UNGARI 1 | KWARRIOL 1 | WUROOPIE 1 | BAPCOOLOO 1 | PELKETA 1 | KEETO 1 | TOOLACHEE 1 | MUNKARIE 1 | AZOLLA 1 | MARAKU 1 | COOBOWIE 1 | MUNKARIE SOUTH 1 | GIDGEE 1 | GLIMMA 1 | EPSILON 1 | THREE QUEENS 1 | CORKWOOD 1 | NAPPACOONGEE 1 | WILPINNIE 1 | DULLINGARI NORTH 1 | DULLINGARI 1 | DELLA 1 | MUDERA 1 | MARABOOKA 1 | MINA 1 | STRZELECKI 1 | AROONA 1 | COOCHILLA 1 | DILCHEE 1 | KERNA 1 | AUSMA 1 | WANARA 1 | BARATTA 1 | CARAKA 1 | WITCHETTY 1 | TOOLACHEE NORTH 1 | MOOLALEE 1 | CHILDIE 1 | CHILCARRIE 1 | KERINNA 1 | MARSILEA 1 | AMYEMA 1 | BURLEY 1 | MCLEOD 1 | PACKSADDLE 1 | BALCAMINCHA 1 | MERUPA 1 | MUORANGIE 1 | WANTANA 1 | KIPER 1 | BOOKAROOPIE 1 | BAUHINIA 1 | BOOKAMINCKA 1

0 10 MILES

141 | 141 30 | 142 | 142 30

26 40

27

27 30

28

28 30

29

MACADAMA 1
MAHL 1
CHALLUM 1
TARTULLA 1
KARMONA 1
OKOTOKO 1
BALLERA 1
BALLAT 1
NACCOWLAH 1
NACCOWLAH EAST 1
NACCOWLAH SOUTH 1
CHOOKOO 1
WILSON 1
JACKSON 1
KAPMIN 1
PALLANO 1
ECHUBURRA 1
GOORA 1
ELLA 1
MAPRAR 1
ASHBY 1
BELAH 1
ROSENEATH 1
EPSILON 1
ORIENTOS NORTH 1
ORIENTOS 1
LAMBDA 1
HUME 1
RHEIMS 1
MOOLIAMPAH 1
SIGMA 1
TICKALARA 1
WILLS EAST 1
ATOLL 1
NARYLCO 1
HONEYMIN 1
GLIMMA 1
MUNKARIE 1
MUNKARIE SOUTH 1
COOBOWIE 1
AZOLLA 1
MARAKU 1
GIDGEE 1
EGLINT 1
MUNRO 1
MARSILEA 1
AMYEMA 1
TOOLACHEE 1
PELKETA 1
KEETO 1
COOLOO 1
WITCHETTY 1
TOOLACHEE NORTH 1
CARAKA 1
BARATTA 1
ARGONA 1
COOCHILLANA 1
DILCHEE 1
KERNA 1
ALISMA 1
DULLINGARI 1
DULLINGARI NORTH 1
WILPINNIE 1
THREE QUEENS 1
CORKWOOD 1
NAPPACOONGEE 1
WURDOPIE 1
OMICRON 1
PIGEON LAKE 1
KIPEN 1
MCLEOD 1
PACKSADDLE 1
TORMINCKA 1
BAUHINIA 1
4
2
11
3
5
23
40
9
35
29
200
300
100
UNIT 1 ABSENT
THICK

PATCHAWARRA FM
UNIT 1 PP 3.1–3.2
ISOPACH MAP

N

0 10 MILES

C.I. 100'

KILOMETRES 10 0 10 20 30 40 50 KILOMETRES

ENCLOSURE 3.2c

090PH
A639
MAPS
c.2

UNIVERSITY OF ADELAIDE LIBRARY

139 15 | 139 30 | 140 | 140 30 | 141

26 40 | 27 | 27 30 | 28 | 28 30 | 29

UNIT 1 ABSENT

UNIT 1 ABSENT

PRE-PERMIAN

JAMES 1
DERAMOOKOO 1
CUTTAPIRRIE 1
BEANBUSH 1
YANTA 1
TITAN 1
CHARO 1
DARTER 1
LAMDINA 1
MOOLION 1
MITCHIE 1
DELIN 1
TOONMAN 1
COONATIE 1
INNAMINCKA 1
BOOKABOURDIE 1
PACKSADDLE 1
PONDRINIE 1
BIMBAYA 1
BALCAMINO 1
MERUPA 1
CALLABONNA 1
MOORARI 1
WOOLKINA 1
BROLGA 1
MINGANA 1
KALLADEINA 1
FLY LAKE 1
TIRRAWARRA 1
MUDRANGIE 1
WANTANA 1
INTA 1
KIRBY 1
VARANUS 1
ANDREE 1
GOORANIE 1
LELEPTIAN 1
NULLA 1
WELCOME LAKE 1
KANOWANA 2
PERIDOTIA 1
BURLEY 1
MCLEOD 1
SWAN LAKE 1
COWRALLI 1
TINDILPIE 2
SNAKE HOLE 1
JACK LAKE 1
GIDGEALPA 1
LYCIUM 1
MAWSON 1
KURUNDA 1
MOOMBA NORTH 1
LAKE HOPE 1
MUTEROO 1
KIRRALEE 1
MOOMBA 1
SPENCER 1
ARRAKIS 1
BIG LAKE 1
LOWANNA 1
THREE QUEENS 1
NAPPACOONGEE 1
POORAKA 1
WILPINNIE 1
DULLINGARI NORTH 1
DELLA 1
DULLINGARI 1
MUDERA 1
MINA 1
STRZELECKI 1
COOLOON 1
MARANA 1
KIDMAN 1
DILCHEE 1
KERNA 1
ALISMA 1
CARAKA 1
BARATTA 1
WITCHETTY 1
TOOLACHEE NORTH 1
PINTARI NORTH 1
WIRRARIE 1
TOPWEE 1
POGONA 1
PINTARI 1
KARILLA 1
BOOBOOK 1
COWAN 1
YALCUMMA 1
MUDLALEE 1
CHILDIE 1
CHILCARRIE 1
TARWONGA 1
VERBENA 1
METTIKA 1
MARSILEA 1
KALANNA 1
GOYDER 1
KERINNA 1
MURTEREE 1
AMYEMA 1
BRUMBY 1
BARCOOLOO 1
TOOLACHEE 1
MUNKARIE 1
KEETO 1
MAPARANKA 1
AZOLLA 1
YAPENDI 1
MOOLALLA 1
WAUKATANNA 1
PANDO NORTH 1
PANDO 1
DENA 1
LYCOSA 1
THURAKINNA 1
MERINDA 1
MANOOKA 1
PANDRUANNIE 1
BOXWOOD 1
KUJANI 1
WANCOORINA 1
DIRKALGARANJANIE 1
PINNA 1
MCKINLAY 1
ALKOOMI 1
LIMESTONE CREEK 1
MUNSEROO 1
BATTUNGA 1
KIWARRICK 1
DUNOON 1
KOBARI 1
WUROOPIE 1
COOBOWIE 1
MUNKARIE SOUTH 1
WIRHA 1

141 | 141 30 | 142 | 142 30

26 40 | 27 | 27 30 | 28 | 28 30 | 29

COOK 1 | TOBY 1 | JAMES 1 | BARROLKA 1 | TARTULLA 1 | MACADAMA 1 | MAHL 1 | BEANBUSH 1 | OKOTOKO 1 | TALLALIA 1 | CHALLUM 1 | BALLERA 2 | MUNKAH 1 | JUDGA 1 | BALLAT 1 | YANDA 1 | INNAMINCKA 1 | WACKETT 1 | NACCOWLAH 1 | NACCOWLAH EAST 1 | NACCOWLAH SOUTH 1 | KARRI 1 | CHOOKOO 5 | PACKSADDLE 1 | KAPWIN 1 | KUTYO 1 | PALLANO 1 | KIRBY 1 | BARYULAH 1 | CORELLA 1 | ECHUBURRA 1 | GOORA 1 | DINGERA 1 | THOAR 1 | ELLA 1 | HUME 1 | MARRAR 1 | BURLEY 2 | MCLEOD 1 | THREE QUEENS 1 | NAPPACOONGEE 1 | POORAKA 1 | WILPINNIE 1 | DULLINGARI NORTH 1 | DELLA 1 | DULLINGARI 1 | ORIENTOS NORTH 1 | LAMBDA 1 | ORIENTOS 1 | EPSILON 1 | ROSENEATH 1 | STRZELECKI 1 | DILCHEE 1 | KERNA 1 | ALISMA 1 | KIDMAN 1 | MARANA 1 | CARAKA 1 | BARATTA 1 | WITCHETTY 1 | TOOLACHEE NORTH 1 | BELAH 1 | ASHBY 1 | RHEIMS 1 | TICKALARA 1 | METTIKA 1 | MOOLIAMPAH 1 | HYDRIGMA 1 | CHILDIE 1 | CHILCARRIE 1 | TARWONGA 1 | VERBENA 1 | MARSILEA 1 | WILLS 1 | AMYEMA 1 | WILLS EAST 1 | BRUMBY 1 | ATOLL 1 | WOMPAH 1 | BARCOOLOO 1 | TOOLACHEE 1 | KEETO 1 | MARANKA 1 | MUNKARIE 1 | GLIMMA 1 | AZOLLA 1 | EGLINT 1 | GIDGEE 1 | MUNRO 1 | HONEYTIN 1 | COOBOWIE 1 | WIRHA 1 | MUNKARIE SOUTH 1 | WUROOPIE 1 | OMICRON 1 | PIGEON LAKE 1

UNIT 1 ABSENT

PATCHAWARRA FORMATION

UNIT 1

SANDSTONE PERCENTAGE MAP

KILOMETRES 10 0 10 20 30 40 50 KILOMETRES

0 10 20 MILES

C.I. 10

ENCLOSURE 3.2d

090PH
A639
MAPS
C.2

UNIVERSITY OF ADELAIDE LIBRARY

139 15 | 139 30 | 140 | 140 30 | 141

216 40 | 27 | 27 30 | 28 | 28 30 | 29

PATCHAWARRA FM ZERO EDGE

PATCHAWARRA FM ABSENT

PATCHAWARRA FM ABSENT

THIC

JAMES 1

DERAMOOKOO 1

CUTTAPIRRIE 1

BEANBUSH 1

LAMDINA 1

YANTA 1

TITAN 1

CHARO 1

MOOLION 1

MITCHIE 1

DARTER 1

DELIN 1

COONATIE 1

TOONMAN 1

CALLABONNA 1

BOOKABOURIE 1

BIMBAYA 1

BALCAMINGA 1

MERUPA 1

PONDRINIE 1

PACKSADDLE 1

INNAMINCKA 1

MOORARI 1

WOOLKINA 1

BROLGA 1

MINGANA 1

PIRRAMINTA 1

WANTANA 1

MUDRANGIE 1

MINKIE 1

DEPARANIE 1

KALLADEINA 1

FLY LAKE 1

TIRRAWARRA 1

KIRBY 1

ANDREE 1

LELEPTIAN 1

VARANUS 1

GOORANIE 1

NULLA 1

WELCOME LAKE 1

KANOWANA 2

MERRAMELIA 1

PELICAN 1

BURLEY 1

MCLEOD 1

SWAN LAKE 1

COWRALLI 1

TINDILPIE 1

SNAKE HOLE 1

JACK LAKE 1

GIDGEALPA 1

LYCIUM 1

MAWSON 1

KURUNDA 1

MOOMBA NORTH 1

LAKE HOPE 1

MUTEROO 1

KIRRALEE 1

MOOMBA 1

SPENCER 1

ARRAKIS 1

BIG LAKE 1

LOWANNA 1

THREE QUEENS 1

NAPPACOONGEE 1

POORAKA 1

WILPINNIE 1

DULLINGARI NORTH 1

DELLA 1

DULLINGARI 1

MUDERA 1

MINA 1

STRZELECKI 1

COOLOON 1

MARANA 1

KIDMAN 1

DILCHEE 1

KERNA 1

ALISMA 1

WANARANINA 1

CARAKA 1

BARATTA 1

WITCHETTY 1

TOOLACHEE NORTH 1

METTIKA 1

MARSILEA 1

AMYEMA 1

BRUMBY 1

MUNKARIE 1

AZOLLA 1

WIRHA 1

COOBOWIE 1

MUNKARIE SOUTH 1

PINTARI NORTH 1

WIRRARIE 1

TOPWEE 1

POGONA 1

PINTARI 1

KARILLA 1

COWAN 1

BOOBOOK 1

YALCUMMA 1

YAPENO 1

MOOLALLA 1

WAUKATANNA 1

PANDO NORTH 1

DEINA 1

LYCOSA 1

PANDO 1

THURAKINNA 1

MANOOKA 1

MERINDA 1

PINNA 1

MCKINLAY 1

SLOCOMB 1

VENA 1

LIMESTONE CREEK 1

PANDRUANNIE 1

KUJANI 1

BOXWOOD 1

DIRKALGARANJANIE 1

WANCOORINA 1

NUNGEROO 1

KIWARRICK 1

DUNOON 1

KOBARI 1

KALANNA 1

GOYDER 1

KERINNA 1

MURTEREE 1

CHILDIE 1

CHILCARRIE 1

TARWONGA 1

VERBENA 1

MUDLALEE 1

BARCOOLOO 1

TOOLACHEE 1

KEETO 1

MARANKA 1

WUROOPIE 1

0

COOPER BASIN

PATCHAWARRA FM

ISOPACH MAP

C.I. 500'

0 MILES 10

KILOMETRES 10 0 10 20 30 40 50 KILOMETRES

141 | 141 30 | 142 | 142 30

26 40 | 27 | 27 30 | 28 | 28 30 | 29

ENCLOSURE 3.2e

090 PH
A639
MAPS
C.2

UNIVERSITY OF ADELAIDE LIBRARY

139 15 139 30 140 140 30 141

26 40 27 27 30 28 28 30 29

COOPER BASIN LIMIT

ZERO EDGE

PATCHAWARRA FM (UNIT 5)

ZERO EDGE

TIRRAWARRA SS

PATCHAWARRA FM (UNIT 4)

ZERO EDGE

PATCHAWARRA FM (UNIT 3)

U D

U D

FLY LAKE

TIRRAWARRA

BOOKABOURDIE

PONDRINIE

INNAMINCKA

MERRIMELIA

GIDGEALPA

SPENCER

MOOMBA

BIG LAKE

DELLA

DULLINGA

STRZELECKI

DARALINGIE

MURTEREE HIGH

TOOLACHEE

139 15 139 30 140 140 30 141

141 | 141 30 | 142 | 142 30

26 40

27

27 30

28

28 30

29

U
D

CHALLUM

INNAMINCKA

NACCOWLAH

JACKSON

DRINIE

PATCHAWARRA FM (UNIT 5) ZERO EDGE

PATCAHAWARRA FM (UNIT 3) ZERO EGDE

UNIT 4

TIRRAWARRA ZERO EDGE

DULLINGARI

EPSILON

TOOLACHEE

COOPER BASIN

PATCHAWARRA FM

STRUCTURAL MAP

PP 2.2.2 & PP 2.1 TIME

N

0 MILES 10

KILOMETRES 10 0 10 20 30 40 50 KILOMETRES

141 | 141 30 | 142 | 142 30

ENCLOSURE 3.2f

090 PH
A639
MAPS
c.2

UNIVERSITY OF ADELAIDE LIBRARY

139 15
139 30
140
140 30
141
26 40
27
27 30
28
28 30
29

JAMES 1

DERAMOOKOO 1
CUTTAPIRRIE 1
BEANBUSH 1
LAMDINA 1
YANTA 1
TITAN 1
MOOLION 1
CHARO 1
MITCHIE 1
DARTER 1
DELIN 1
COONATIE 1
TOONMAN 1
CALLABONNA 1
MOORARI 1
WOOLKINA 1
BROLGA 1
MINGANA 1
FLY LAKE 1
KALLADEINA 1
TIRRAWARRA 1
ANDREE 1
VARANUS 1
GOORANIE 1
LELEPTIAN 1
NULLA 1
WELCOME LAKE 1
KANOWANA 2
SWAN LAKE 1
COWRALLI 1
TINDILPIE 1
SNAKE HOLE 1
JACK LAKE 1
GIDGEALPA 1
LYCIUM 1
MAWSON 1
KORUNDA 1
LAKE HOPE 1
MUTEROO 1
SPENCER 1
KIRRALEE 1
ARRAKIS 1
PINTARI NORTH 1
PINTARI 1
WIRRARIE 1
KARILLA 1
TOPWEE 1
POGONA 1
COWAN 1
BOOBOOK 1
MOOLALLA 1
YALCUMMA 1
WAUKATANNA 1
YAPENO 1
PANDO NORTH 1
DEINA 1
LYCOSA 1
PANDO 1
THURAKINNA 1
MANOOKA 1
PANDRUANNIE 1
KIJANI 1
BOXWOOD 1
DIRKALGARANJANIE 1
WANCOORTHA 1
MERINDA 1
PINNA 1
MOOMBA NORTH 1
MOOMBA 1
BIG LAKE 1
LOWANNA 1
NUNGEROO 1
DUNOON 1
KOBARI 1
KIWARRICK 1
WUROOPIE 1
MCKINLAY 1
ALKOOM 1
LIMESTONE CREEK 1
BATTUNGA 1
MURTEREE 1
KALANNA 1
GOYDER 1
KERINNA 1
MUDLALEE 1
CHILDIE 1
CHILCARRIE 1
TARWONGA 1
VERBENA 1
METTIKA 1
MARSILEA 1
AMYEMA 1
BRUMBY 1
BARCOOLOO 1
TOOLACHEE 1
KEETO 1
MARANKA 1
MUNKARIE 1
AZOLLA 1
WIRHA 1
COOBOWIE 1
MUNKARIE SOUTH 1
THREE QUEENS 1
NAPPACOONGEE 1
POORAKA 1
WILPINNIE 1
DELLA 1
DULLINGARI NORTH 1
DULLINGARI 1
MUDERA 1
MINA 1
STRZELECKI 1
COOLOON 1
MARANA 1
KIDMAN 1
WANDRANNA 1
CARAKA 1
BARATTA 1
WITCHETTY 1
TOOLACHEE NORTH 1
DILCHEE 1
KERNA 1
ALISMA 1
MUDRANGIE 1
MINNIE 1
DEPIANNE 1
KIRBY 1
BURLEY 1
MCLEOD 1
INNAMINCKA 1
PACKSADDLE 1
PONDRINIE 1
DOORAGOURDIE 1
DUMBAYA 1
BALCAMINNA 1

MURTEREE SH ZERO EDGE
MURTEREE SH ABSENT
MURTEREE SH ABSENT
MURTEREE SH ABSENT
MURTEREE
THICK

100
200
250

0

141 | 141 30 | 142 | 142 30

26 40 | 27 | 27 30 | 28 | 28 30 | 29

COOK 1
JAMES 1
BARROLKA 1
TOBY 1
ZERO EDGE
MACADAMA 1
MAHL 1
TALLALIA 1
CHALLUM 1
TARTULLA 1
OKOTOKO 1
BALLERA 2
MUNKAH 1
JUDGA 1
BALLAT 1
YANDA 1
WACKETT 1
NACCOWLAH 1
NACCOWLAH EAST 1
NACCOWLAH SOUTH 1
KARRI 1
CHOOKOO 5
KARWIN 1
KUTYO 1
PALLANO 1
BARYULAH 1
NATAN 1
GORELLA 1
ECHUBURRA 1
GOORA 1
DINGERA 1
THOAR 1
ELLA 1
HUME 1
MARRAR 1
ORIENTOS NORTH 1
LAMBDA 1
ORIENTOS 1
EPSILON 1
ROSENEATH 1
BELAH 1
ASHBY 1
RHEIMS 1
MOOLIAMPAH 1
HYDRA 1
TICKALARA 1
WILLS 1
WILLS EAST 1
ATOLL 1
WOMPAH 1
GLIMMA 1
HONEYTIN 1
GSQ TICKALARA 1
OMICRON 1
PIGEON LAKE 1
ZERO EDGE
SH
MURTEREE
100
200
250
THICK
INNAMINCKA 1
RACKSADDLE 1
KIRBY 1
BURLEY 1
MCLEOD 1
THREE QUEENS 1
POORAKA 1
WILPINNIE 1
DULLINGARI NORTH 1
DULLINGARI 1
DELLA 1
ZELECKI 1
MARANA 1
CARAKA 1
BARATTA 1
KIDMAN 1
DILCHEE 1
KERNA 1
ALISMA 1
WITCHETTY 1
TOOLACHEE NORTH 1
METTIKA 1
VERBENA 1
MARSILEA 1
AMYEMA 1
BRUMBY 1
TARWONGA 1
CARRIE 1
MARCOOLOO 1
TOOLACHEE 1
KEETO 1
MUNKARIE 1
MARANKA 1
AZOLLA 1
WIRHA 1
COOBOWIE 1
GIDGEE 1
EGLINT 1
MUNRO 1
MUNKARIE SOUTH 1
WUROOPIE 1

COOPER BASIN
MURTEREE SH
ISOPACH MAP

C.I 100'

0 MILES 10

KILOMETRES 10 0 10 20 30 40 50 KILOMETRES

ENCLOSURE 3.2g

090PH
A639
MAPS
c.2

UNIVERSITY OF ADELAIDE LIBRARY

139 15 | 139 30 | 140 | 140 30 | 141

7 30 | 28 | 28 30 | 29

EPSILON FM ZERO EDGE

JAMES 1
DERAMOOKOO 1
CUTTAPIRRIE 1
BEANBUSH 1
LAMDINA 1
YANTA 1
TITAN 1
MOOLION 1
CHARO 1
DARTER 1
MITCHIE 1
COONATIE 1
DELIN 1
TOONMAN 1
JINDAMINCKA 1
BOOKABOURDIE 1
BIMBAYA 1
PACHSADDLE 1
RONDRINE 1
BALCAMINGA 1
MERUPA 1
CALLABONNA 1
MOORARI 1
WOOLKINA 1
BROLGA 1
MINGANA 1
FLY LAKE 1
KALLADEINA 1
TIRRAWARRA 1
MUDRANGIE 1
MINKIE 1
DEPARMIE 1
PIRAMANTA 1
WANDANA 1
KIRBY 1
ANDREE 1
VARANUS 1
GOORANIE 1
LELEPTIAN 1
NULLA 1
WELCOME LAKE 1
KANOWANA 2
BURLEY 1
MCLEOD 1
SWAN LAKE 1
COWRALLI 1
TINDILPIE 1
SNAKE HOLE 1
JACK LAKE 1
GIDGEALPA 1
LYCIUM 1
MAWSON
KURUNDA 1
LAKE HOPE 1
MUTEROO 1
SPENCER 1
KIRRALEE 1
ARRAKIS 1
MOOMBA NORTH 1
MOOMBA 1
BIG LAKE 1
LOWANNA 1
THREE QUEENS 1
WILPINNIE 1
DULLINGARI NORTH 1
DELLA 1
DULLINGARI 1
MUDERA 1
MINA 1
STRZELECKI 1
COOLOON 1
MARANA 1
KIDMAN 1
DILCHEE 1
KERNA 1
ALISMA 1
CARAKA 1
BARATTA 1
WITCHETTY 1
TOOLACHEE NORTH 1
METTIKA 1
MARSILEA 1
AMYEMA 1
BRUMBY 1
MUDLALEE 1
CHILDIE 1
CHILCARRIE 1
TARWONGA 1
VERBENA 1
KALANNA 1
GOYDER 1
KERINNA 1
MURTEREE 1
BARCOOLOO 1
TOOLACHEE 1
KEETO 1
MCARANKA 1
MUNKARIE 1
AZOLLA 1
WIRHA 1
COOBOWIE 1
MUNKARIE SOUTH 1
POGONA 1
BOOBOOK 1
COWAN 1
YAPENA 1
MOOLALLA 1
YALCUMMA 1
WAUKATANNA 1
PANDO NORTH 1
DEINA 1
LYCOSA 1
PANDO 1
THURAKINNA 1
MANOOKA 1
MERINDA 1
PANDRUANNIE 1
KUJANI 1
BOXWOOD 1
DIRKALGARANJANIE 1
WANCOOCHA 1
PINTARI NORTH 1
PINTARI 1
WIRRARIE 1
KARILLA 1
PINNA 1
MCKINLAY 1
ALKOOMI 1
LIMESTONE CREEK 1
NUNGEROO 1
BATTUNGA 1
KIWARRICK 1
DUNOON 1
KOBARI 1
WUROOPIE 1

100 | 200 | 300 | 400 | 0

THI
EPSILO

141 | 141 30 | 142 | 142 30

26 40 | 27 | 27 30 | 28 | 28 30 | 29

COOK 1
TOBY 1
JAMES 1
BARROLKA 1
MACADAMA 1
MAHL 1
TALLALIA 1
CHALLUM 1
TARTULLA 1
OKOTOKO 1
BALLERA 2
MUNKAH 1
JUDGA 1
BALLAT 1
YANDA 1
WACKETT 1
NACCOWLAH 1
NACCOWLAH EAST 1
NACCOWLAH SOUTH 1
KARRI 1
CHOOKOO 5
JINNAMINCKA 1
PACHSADDLE 1
PONDRINIE 1
KIRBY 1
KARWIN 1
KUTYO 1
PALLANO 1
BARYULAH 1
NATARU 1
CORELLA 1
ECHUBURRA 1
GOORA 1
BINGERA 1
THOAR 1
ELLA 1
THREE QUEENS 1
WILPINNIE 1
DULLINGARI NORTH 1
DULLINGARI 1
DELLA 1
ORIENTOS NORTH 1
ORIENTOS 1
LAMBDA 1
HUME 1
EPSILON 1
ROSENEATH 1
DILCHEE 1
KERNA 1
ALISMA 1
KIDMAN 1
MARANA 1
CARAKA 1
BARATTA 1
WITCHETTY 1
TOOLACHEE NORTH 1
METTIKA 1
VERBENA 1
TARWONGA 1
MARSILEA 1
AMYEMA 1
BRUMBY 1
TOOLACHEE 1
KEETO 1
MACARANKA 1
MUNKARIE 1
AZOLLA 1
WIRHA 1
COOBOWIE 1
MUNKARIE SOUTH 1
WUROOPIE 1
BELAH 1
ASHBY 1
MARRAR 1
RHEIMS 1
TICKALARA 1
MOOLIAMPAH 1
HYDRA SIGMA 1
WILLS 1
WILLS EAST 1
GLIMMA 1
GIDGEE 1
EGLINT 1
MUNRO 1
HONEYTIN 1
ATOLL 1
WOMPAH 1
OMICRON 1
PIGEON LAKE 1
GSQ TICKALARA 1

100
300
400
0

THICK
ZERO EDGE
FM
EPSILON

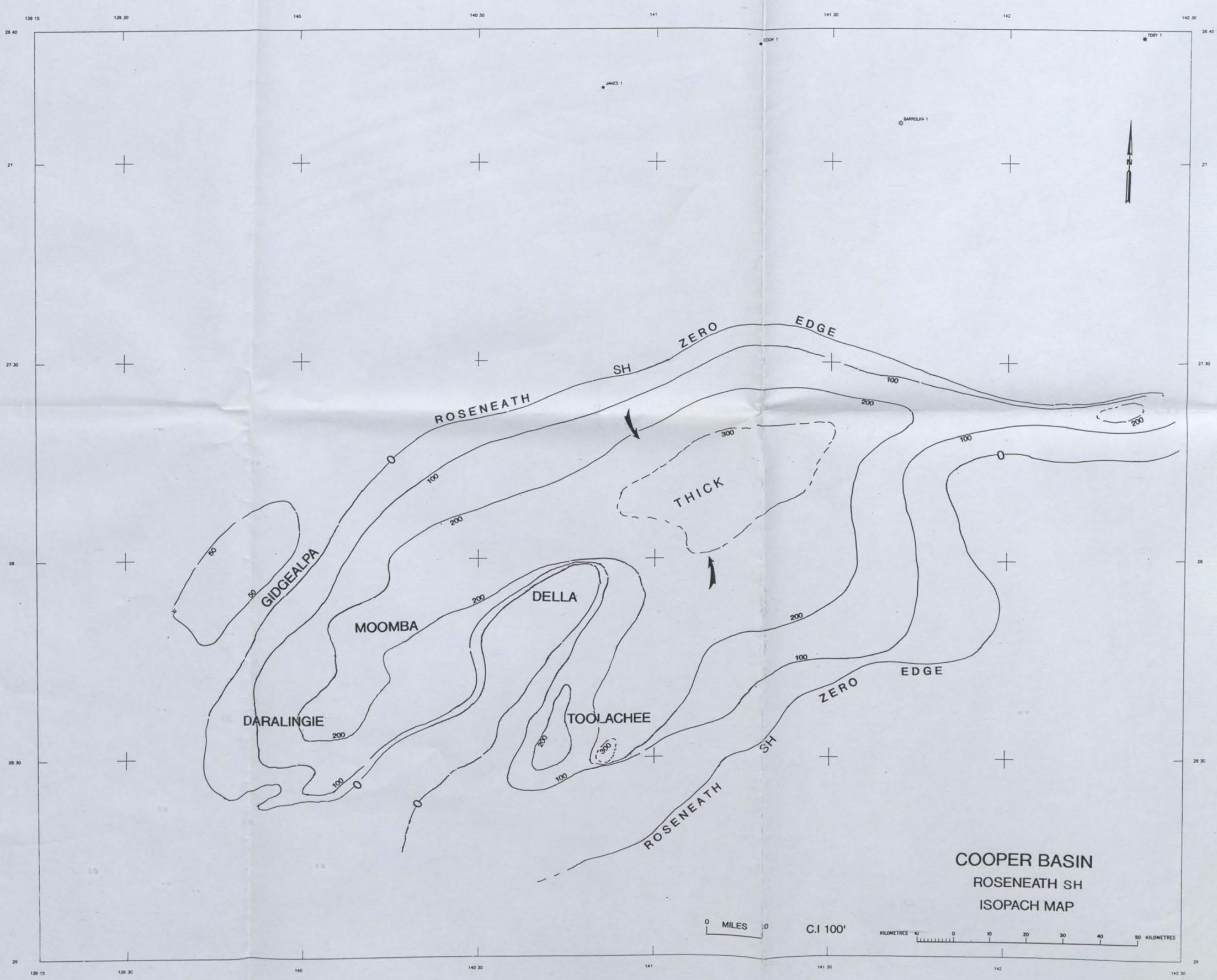
0 MILES 10
C.I.100'
KILOMETRES 10 0 10 20 30 40 50 KILOMETRES

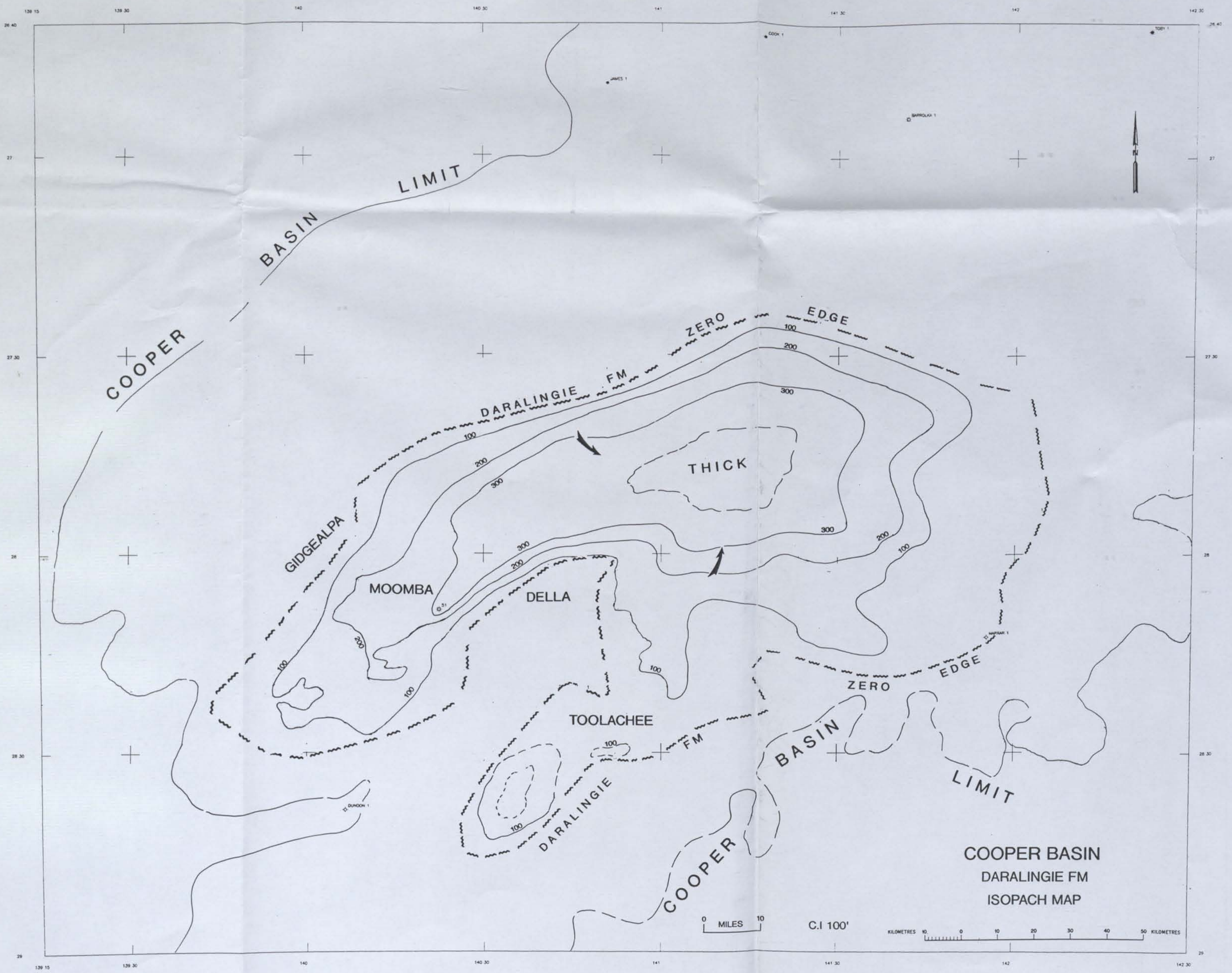
COOPER BASIN
EPSILON FM
ISOPACH MAP

ENCLOSURE 3.2h

090PH
A639
MAPS
c.2

UNIVERSITY OF ADELAIDE LIBRARY




COOPER BASIN LIMIT
ZERO EDGE
DARALINGIE FM
100
200
300
THICK
GIDGEALPA
MOOMBA
DELLA
TOOLACHEE
DARALINGIE FM
ZERO EDGE
COOPER BASIN LIMIT
COOK 1
JAMES 1
BARROLKA 1
TOBY 1
MARRAR 1
DUNDON 1
COOPER BASIN
DARALINGIE FM
ISOPACH MAP
C.I 100'
0 MILES 10
KILOMETRES 10 0 10 20 30 40 50 KILOMETRES

139 15 139 30 140 140 30 141 141 30 142 142 30

26 40 27 27 30 28 28 30 29

COOPER BASIN LIMIT

MURTEREE FM

ZERO EDGE OF FLY LAKE

TIRRAWARRA

BOOKABOURDIE

PONDRINIE

INNAMINCKA

CHALLUM

NACCOWLAH

JACKSON

MERRIMELIA

ERODED ZERO EDGE OF DARALINGIE FM

GIDGEALPA

SPENCER

MOOMBA

BIG LAKE

DELLA

STRZELECKI

DULLINGARI

EPSILON

TOOLACHEE

MURTEREE HIGH

COOPER BASIN LIMIT

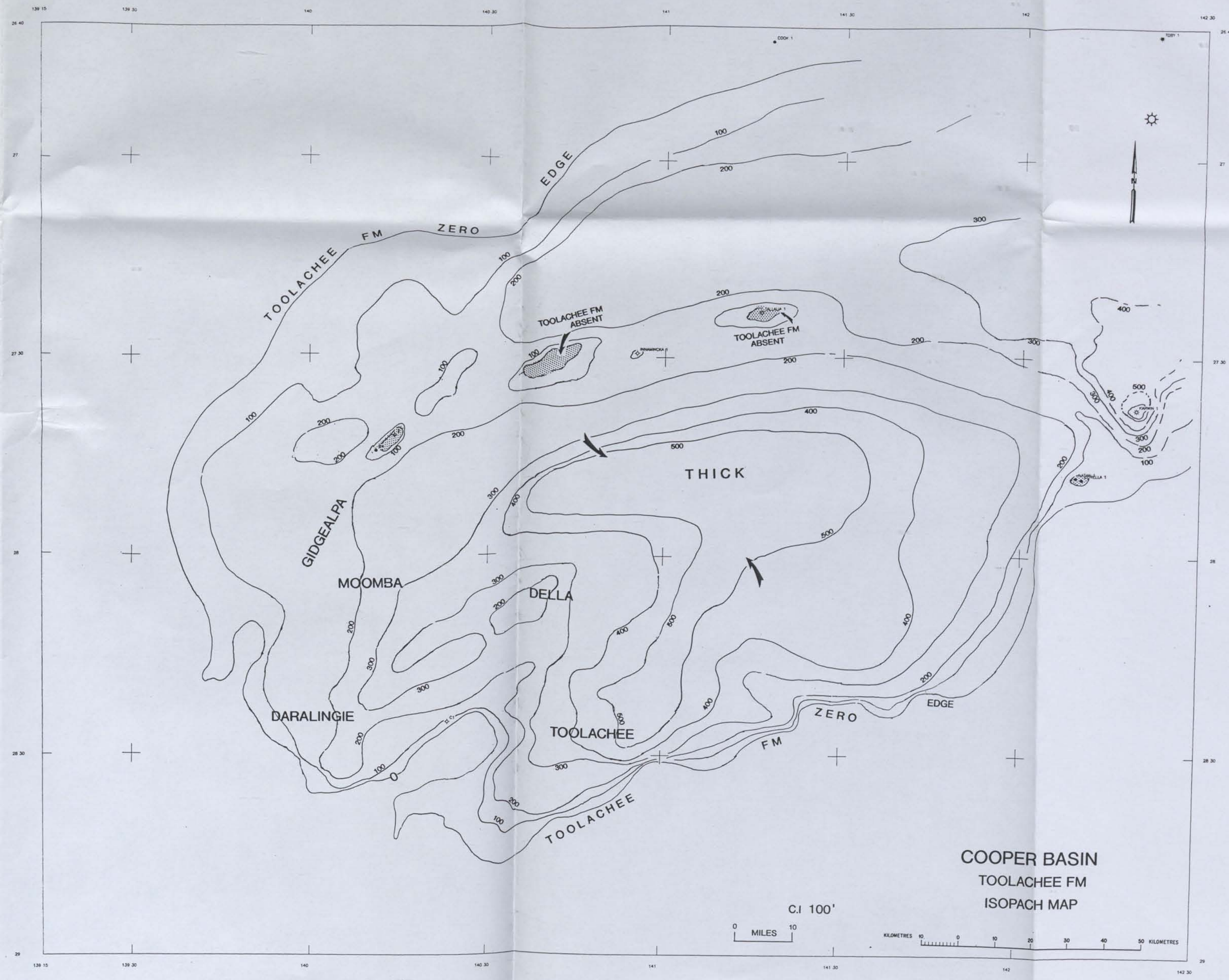
COOPER BASIN

POST DARALINGIE FM

STRUCTURAL MAP

0 MILES 10

KILOMETRES 10 0 10 20 30 40 50 KILOMETRES



COOPER BASIN

TOOLACHEE FM

ISOPACH MAP

139 15 139 30 140 140 30 141 141 30 142 142 30

26 40 27 27 30 28 28 30 29

COOK 1 TODY 1 JAMES 1 BARROLKA 1 MACKETT 1 NIRRA 1

NAPPAMERRI GR ZERO EDGE

200 400 600 800 1000 1200 1400

THICK

GIDGEALPA

DELLA

MOOMBA

DARALINGIE

TOOLACHEE

ZERO EDGE

GR

NAPPAMERRI

N

COOPER BASIN

NAPPAMERRI GR

ISOPACH MAP

0 MILES 10 C.I 200'

KILOMETRES 10 0 10 20 30 40 50 KILOMETRES

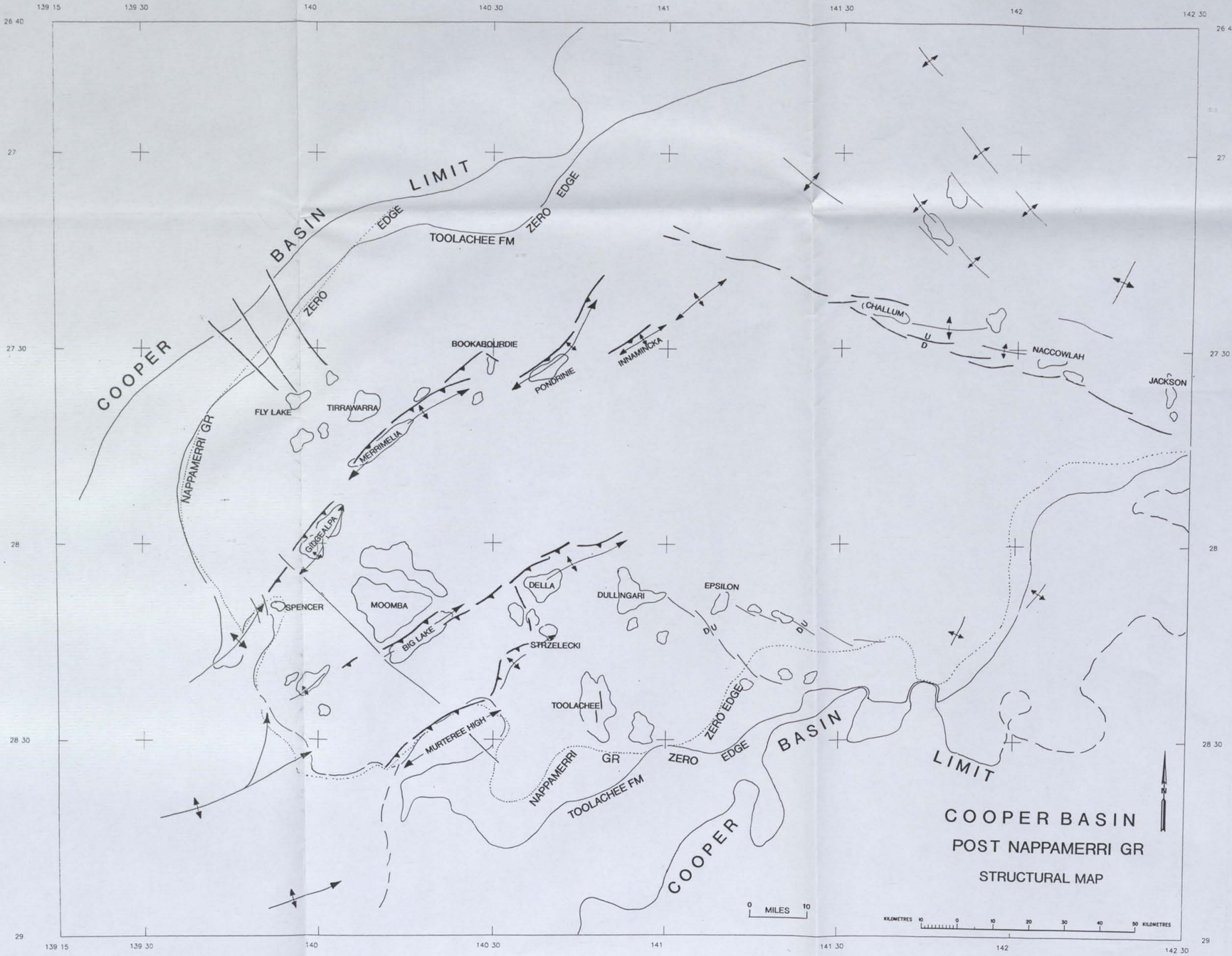
COOPER BASIN

FORMATIONS ISOPACH

&

STRUCTURAL MAPS

MONTAGE



ENCLOSURE 3.3

090 PH
A639
MAPS
c.2

UNIVERSITY OF ADELAIDE LIBRARY

139 15 | 139 30 | 140 | 140 30 | 141

26 40 | 27 | 27 30 | 28 | 28 30 | 29

JAMES 1

DERAMOOKOO 1
CUTTAPIRRIE 1
BEANBUSH 1
LAMDINA 1
YANTA 1
TITAN 1
MOOLION 1
CHARO 1
MITCHIE 1
DARTER 1
DELIN 1
COONATIE 1
TOONMAN 1
BOOKABOURDIE 1
CALLABONNA 1
BIMBAYA 1
MOORARI 1
BALCAMINGA 1
MERUPA 1
WOOLKINA 1
EROLGA 1
MINGANA 1
PIRRAMINTA 1
MUDRANGIE 1
FLY LAKE 1
MINKIE 1
KALLADEINA 1
DEPARANIE 1
DIRRAWARRA 1
ANDREE 1
VARANUS 1
GOORANIE 1
LELEPTIAN 1
NULLA 1
WELCOME LAKE 1
KANOWANA 2
MERRIMELIA 1
BURLEY 1
MCLEOD 1
SWAN LAKE 1
COWRALLI 1
SNAKE HOLE 1
TINDILPIE 1
JACK LAKE 1
GIDGEALPA 1
LYCIUM 1
MAWSON 1
KURUNDA 1
MOOMBA NORTH 1
LAKE HOPE 1
MUTEROO 1
KIRRALEE 1
SPENCER 1
MOOMBA 1
ARRAKIS 1
BIG LAKE 1
LOWANNA 1
PINTARI NORTH 1
WIRRARIE 1
TOPWEE 1
POGONA 1
PINTARI 1
KARILLA 1
COWAN 1
BOOBOOK 1
YAPENDA 1
BARANGIE 1
MOOLALLA 1
YALCUMMA 1
WAUKATANNA 1
PANDO NORTH 1
DEINA 1
LYCOSA 1
PANDO 1
THURAKINNA 1
MANOOKA 1
MERINDA 1
PANDRUANNIE 1
KUJANI 1
BOXWOOD 1
DIRKALGARANJANIE 1
WANCOOCHA 1
PINNA 1
JENA 1
MCKINLAY 1
ALKOOMI 1
LIMESTONE CREEK 1
NUNGEROO 1
KIWARRICK 1
KOBARI 1
DUNOON 1
BATTUNGA 1
WIRHA 1
WUROOPIE 1
COOBOWIE 1
MUNKARIE SOUTH 1
THREE QUEENS 1
NAPPACOONGEE 1
POORAKA 1
WILPINNIE 1
DULLINGARI NORTH 1
DELLA 1
DULLINGARI 1
MUDERA 1
MINA 1
STRZELECKI 1
COOLOON 1
MARANA 1
KIDMAN 1
DILCHEE 1
KERNA 1
ALISMA 1
CARAKA 1
BARATTA 1
WITCHETTY 1
TOOLACHEE NORTH 1
MUDLALEE 1
CHILDIE 1
CHILCARRIE 1
TARWONGA 1
VERBENA 1
METTIKA 1
MARSILEA 1
AMYEMA 1
KALANNA 1
GOYDER 1
KERINNA 1
MURTEREE 1
BRUMBY 1
BARCOOLOO 1
TOOLACHEE 1
KEETO 1
MACARANKA 1
MUNKARIE 1
AZOLLA 1
GLIMMA 1
GIDGEE 1
EGLINT 1
MUNRO 1
EPSILON 1
OMICRON
INNAMINCKA 1
PACKSADDLE 1
PONDRINIE 1
KIRBY 1
ZERO SH ROSENEATH THICK
ROSENEATH
0
50
100
200
300
0 MILES

141 | 141 30 | 142 | 142 30

26 40 | 27 | 27 30 | 28 | 28 30 | 29

COOK 1
JAMES 1
BARROLKA 1
TOBY 1
TARTULLA 1
OKOTOKO 1
MACADAMA 1
MAHL 1
TALLALIA 1
CHALLUM 1
BALLERA 2
MUNKAH 1
JUDGA 1
BALLAT 1
YANDA 1
WACKETT 1
NACCOWLAH 1
NACCOWLAH EAST 1
NACCOWLAH SOUTH 1
KARRI 1
CHOOKOO 5
INNAMINCKA 1
PACKSADDLE 1
PONDRINIE 1
KIRBY 1
KARWIN 1
KUTYO 1
PALLANO 1
BARYULAH 1
CORELLA 1
ECHUBURRA 1
GOORA 1
DINGERA 1
THOAR 1
ELLA 1
HUME 1
MARRAR 1
ATOLL 1
WOMPAH 1
HONEYTIN 1
GSQ TICKALARA 1
OMICRON 1
PIGEON LAKE 1
MCLEOD 1
THREE QUEENS 1
NAPPACOONGEE 1
POORAKAYI 1
WILPINNIE 1
DULLINGARI NORTH 1
DULLINGARI 1
DELLA 1
EPSILON 1
ROSENEATH 1
DILCHEE 1
KERNA 1
KIDMAN 1
ALISMA 1
MARANA 1
CARAKA 1
BARATTA 1
WITCHETTY 1
TOOLACHEE NORTH 1
METTIKA 1
VERBENA 1
MARSILEA 1
TARWONGA 1
AMYEMA 1
BRUMBY 1
TOOLACHEE 1
KEETO 1
MUNKARIE 1
MARANKA 1
AZOLLA 1
WIRHA 1
COOBOWIE 1
MUNKARIE SOUTH 1
GLIMMA 1
GIDGEE 1
EGLINT 1
MUNRO 1
LAMBDA 1
ORIENTOS NORTH 1
ORIENTOS 1
BELAH 1
ASHBY 1
RHEIMS 1
WILLS 1
MOOLIAMPAH 1
HYDRA 1
SIGMA 1
TICKALARA 1
WILLS EAST 1
WUROOPIE 1
KARWIN 1
JACKSON 1

100
200
300
0
SH
ZERO EDGE
THICK
ROSENEATH SH ZERO EDGE

COOPER BASIN

ROSENEATH SH

ISOPACH MAP

0 MILES 10

C.I 100'

KILOMETRES 10 0 10 20 30 40 50 KILOMETRES

ENCLOSURE 3.3a

090PM
A639
MAPS
c.2

UNIVERSITY OF ADELAIDE LIBRARY

139 15 | 139 30 | 140 | 140 30 | 141

26 40 | 27 | 27 30 | 28 | 28 30 | 29

COOPER BASIN

DARALINGIE FM

ZERO

LIMIT

100

200

300

THICK

JAMES 1
DERAMOOKOO 1
CUTTAPIRRIE 1
BEANBUSH 1
LAMDINA 1
YANTA 1
TITAN 1
CHARO 1
MOOLION 1
MITCHIE 1
DARTER 1
DELIN 1
TOONMAN 1
COONATIE 1
BOOKABOURDIE 1
BIMBAYA 1
PACKSADDLE 1
INNAMINCKA 1
PONDRINIE 1
BALCAMINGA 1
MERUPA 1
CALLABONNA 1
MOORARI 1
WOOLKINA 1
BROLGA 1
MINGANA 1
FLY LAKE 1
KALLADEINA 1
PIRRAMINTA 1
MUDRANGIE 1
WANTANA 1
MINKIE 1
DEPARANIE 1
KIRBY 1
TIRRAWARRA 1
ANDREE 1
VARANUS 1
COORANIE 1
LELEPTIAN 1
NULLA 1
WELCOME LAKE 1
KANOWANA 2
MELPOMELIA 1
BURLEY 1
MCLEOD 1
SWAN LAKE 1
COWRALLI 1
TINDILPIE 1
SNAKE HOLE 1
JACK LAKE 1
GIDGEALPA 1
LYCIUM 1
MAWSON
KURUNDA 1
MOOMBA NORTH 1
MOOMBA 1
LAKE HOPE 1
MUTEROO 1
KIRRALEE 1
SPENCER 1
ARRAKIS 1
BIG LAKE 1
THREE QUEENS 1
NAPPACOONGEE 1
POORAKA 1
WILPINNIE 1
DULLINGARI NORTH 1
DULLINGARI 1
DELLA 1
EPSILON 1
MUDERA 1
MINA 1
PINTARI NORTH 1
WIRRARIE 1
TOPWEE 1
POGONA 1
PINTARI 1
KARILLA 1
LOWANNA 1
STRZELECKI 1
COOLOON 1
MARANA 1
KIDMAN 1
DILCHEE 1
KERNA 1
ALISMA 1
CARAKA 1
BARATTA 1
WITCHETTY 1
TOOLACHEE NORTH 1
METTIKA 1
MARSILEA 1
VERBENA 1
COWAN 1
BOOBOOK 1
MOOLALLA 1
YALCUMMA 1
WAUKATANNA 1
YAPENCH
DARALINGIE
DEINA 1
PANDO NORTH 1
PANDO 1
LYCOSA 1
THURAKINNA 1
MANOOKA 1
MUDLALEE 1
CHILDIE 1
CHILCARRIE 1
TARWONGA 1
KALANNA 1
GOYDER 1
KERINNA 1
MURTEREE 1
C1
AMYEMA 1
BRUMBY 1
BARCOOLOO 1
TOOLACHEE 1
KEETO 1
MARANKA 1
MUNKARIE 1
GLIMMA 1
AZOLLA 1
MERINDA 1
PINNA 1
MCKINLAY 1
ALKOOM 1
LIMESTONE CREEK 1
JENA 1
PANDRUANNIE 1
KUJANI 1
DIRKALGARANJANIE 1
WANCOOCHA 1
BOXWOOD 1
NUNGEROO 1
KIWARRICK 1
BATTUNGA 1
WIRHA 1
COOBOWIE 1
GIDGEE 1
MUNKARIE SOUTH 1
WUROOPIE 1
DUNOON 1
KOBARI 1

0 MILES

141 | 141 30 | 142 | 142 30

26 40 | 27 | 27 30 | 28 | 28 30 | 29

COOK 1
JAMES 1
BARROLKA 1
TOBY 1
TARTULLA 1
MACADAMA 1
MAHL 1
OKOTOKO 1
TALLALIA 1
CHALLUM 1
BALLERA 2
MUNKAH 1
JUDGA 1
BALLAT 1
YANDA 1
INNAMINCKA 1
WACKETT 1
NACCOWLAH 1
NACCOWLAH EAST 1
NACCOWLAH SOUTH 1
KARRI 1
CHOOKOO 5
PACKSADDLE 1
KIRBY 1
KARWIN 1
KUTYO 1
PALLANO 1
BARYULAH 1
MCLEOD 1
GORELLA 1
ECHUBURRA 1
GOORA 1
DINGERA 1
THOAR 1
ELLA 1
THREE QUEENS 1
NAPPACOONGEE 1
WILPINNIE 1
ORIENTOS NORTH 1
LAMBDA 1
ORIENTOS 1
HUME 1
DULLINGARI NORTH 1
DULLINGARI 1
EPSILON 1
ROSENEATH 1
DILCHEE 1
KERNA 1
KIDMAN 1
AUSMA 1
BELAH 1
ASHBY 1
MAPRAR 1
RHEIMS 1
CARAKA 1
WITCHETTY 1
TOOLACHEE NORTH 1
METTIKA 1
VERBENA 1
MARSILEA 1
AMYEMA 1
MOOLIAMPAH 1
HYDRA 1
TICKALARA 1
WILLS 1
WILLS EAST 1
ATOLL 1
WOMPAH 1
BRUMBY 1
TOOLACHEE 1
KEETO 1
MUNKARIE 1
GLIMMA 1
AZOLLA 1
GIDGEE 1
EGLINT 1
MUNRO 1
HONEYTIN 1
WIRHA 1
COOBOWIE 1
MUNKARIE SOUTH 1
OMICRON 1
PIGEON LAKE 1
GSQ TICKALARA 1

100
200
300

ZERO EDGE DARALINGIE FM

ZERO EDGE BASIN LIMIT

THICK

COOPER

0 MILES 10

C.I 100'

KILOMETRES 10 0 10 20 30 40 50 KILOMETRES

COOPER BASIN

DARALINGIE FM

ISOPACH MAP

ENCLOSURE 3.3b

D90PM
A639
MAPS
c.2

UNIVERSITY OF ADELAIDE
LIBRARY

139 15 | 139 30 | 140 | 140 30 | 141

26 40 | 27 | 27 30 | 28 | 28 30 | 29

BASIN LIMIT

COOPER

MURTEREE SH

ZERO EDGE OF

FLY LAKE

TIRRAWARRA

BOOKABOURDIE

PONDRINIE

INNAMINCKA

MERRIMELIA

ERODED ZERO EDGE OF DARALINGIE F M

GIDGEALPA

SPENCER

MOOMBA

BIG LAKE

DELLA

DULLINGARI

EPSILO

STRZELECKI

TOOLACHEE

MURTEREE HIGH

COOPE

141 | 141 30 | 142 | 142 30

26 40 | 27 | 27 30 | 28 | 28 30 | 29

CHALLUM

NACCOWLAH

JACKSON

INNAMINCKA

ORINIE

RALINGIE F M

DULLINGARI

EPSILON

LLA

RZELECKI

TOOLACHEE

BASIN LIMIT

COOPER

COOPER BASIN

POST DARALINGIE F M

STRUCTURAL MAP

0 MILES 10

KILOMETRES 10 0 10 20 30 40 50 KILOMETRES

ENCLOSURE 3.3c

090 PH
AGS9
MAP1
C.2

UNIVERSITY OF ADELAIDE LIBRARY

139 15 | 139 30 | 140 | 140 30 | 141

26 40 | 27 | 27 30 | 28 | 28 30 | 29

EDGE

ZERO

TOOLACHEE FM

TOOLACHEE FM ABSENT

THICK

TOOLACHEE

100 200 300 400 500 0

JAMES 1
DERAMDOKOO 1
CUTTAPIRRIE 1
BEANBUSH 1
YANTA 1
TITAN 1
LAMDINA 1
CHARO 1
DARTER 1
MOOLION 1
MITCHIE 1
COONATIE 1
DELIN 1
TOONMAN 1
INNAMINCKA 1
BOOKABOURDIE 1
BIMBAYA 1
PONDRINIE 1
PACKSADDLE 1
CALLABONNA 1
MOORARI 1
WOOLKINA 1
BALCAMINGA 1
MERUPA 1
BROLGA 1
MINGANA 1
PIRRAMINTA 1
MUDRANGIE 1
WANTANA 1
MINKIE 1
FLY LAKE 1
DEPARANIE 1
KIRBY 1
KALLADEINA 1
TIRRAWARRA 1
ANDREE 1
VARANUS 1
GOORANIE 1
LELEPTIAN 1
MELAMELIA 1
NULLA 1
WELCOME LAKE 1
KANOWANA 2
PELICAN 3
BURLEY 1
MCLEOD 1
GERANJI 1
SWAN LAKE 1
COWRALLI 1
TINDILPIE 1
SNAKE HOLE 1
JACK LAKE 1
GIDGEALPA 1
THREE QUEENS 1
NAPPACOONGEE 1
POORAKAY 1
WILPINNIE 1
DULLINGARI NORTH 1
DELLA 1
DULLINGARI 1
LYCIUM 1
MAWSON 1
KORUNDA 1
MOOMBA NORTH 1
MOOMBA 1
LAKE HOPE 1
MUTEROO 1
KIRRALEE 1
SPENCER 1
ARRAKIS 1
BIG LAKE 1
MUDERA 1
MINA 1
LOWANNA 1
STRZELECKI 1
COOLOON 1
MARANA 1
KIDMAN 1
DILCHEE 1
KERNA 1
ALISMA 1
PINTARI NORTH 1
WIRRARIE 1
TOPWEE 1
POGONA 1
PINTARI 1
KARILLA 1
CARAKA 1
WANARANMA 1
EARATTA 1
WITCHETTY 1
TOOLACHEE NORTH 1
BOOBOOK 1
COWAN 1
MUDLALEE 1
METTIKA 1
MARSILEA 1
AMYEMA 1
YALCUMMA 1
MOOLALLA 1
WAUKATANNA 1
CHILDIE 1
CHILCARRIE 1
TARWONGA 1
VERBENA 1
KALANNA 1
GOYDER 1
KERINNA 1
MURTEREE 1
BARCOOLOO 1
TOOLACHEE 1
BRUMBY 1
PANDO NORTH 1
PANDO 1
DEINA 1
LYCOSA 1
THURAKINNA 1
MANOOKA 1
MERINDA 1
C1
KEETO 1
MAYARANKA 1
MUNKARIE 1
AZOLLA 1
PINNA 1
MCKINLAY 1
ALKOOMI 1
JENA 1
LIMESTONE CREEK 1
PANDRUANNIE 1
BOXWOOD 1
KUJANI 1
WANCOOCHA 1
DIRKALGARANJANIE 1
BATTUNGA 1
WIRHA 1
COOBOWIE 1
MUNKARIE SOUTH 1
NUNGEROO 1
KIWARRICK 1
WUROOPIE 1
DUNOON 1
KOBARI 1

141 | 141 30 | 142 | 142 30

26 40 | 27 | 27 30 | 28 | 28 30 | 29

COOK 1
JAMES 1
BARROLKA 1
TOBY 1
MACADAMA 1
MAHL 1
TALLALIA 1
CHALLUM 1
INNAMINCKA 1
PACKSADDLE 1
KIRBY 1
MCLEOD 1
TARTULLA 1
OKOTOKO 1
BALLERA 2
MUNKAH 1
JUDGA 1
BALLAT 1
YANDA 1
WACKETT 1
NACCOWLAH 1
NACCOWLAH EAST 1
NACCOWLAH SOUTH 1
KARRI 1
CHOOKOO 5
KARWIN 1
JACKSON 1
KUTYO 1
PALLANO 1
BARYULAH 1
NATARU 1
MORELLA 1
ECHUBURRA 1
GOORA 1
DINGERA 1
THOAR 1
ELLA 1
THREE QUEENS 1
NAPPACOONGEE 1
WILPINNIE 1
DULLINGARI NORTH 1
DULLINGARI 1
ORIENTOS NORTH 1
LAMBDA 1
ORIENTOS 1
HUME 1
EPSILON 1
ROSENEATH 1
DILCHEE 1
KERNA 1
ALISMA 1
KIDMAN 1
CARAKA 1
WITCHETTY 1
TOOLACHEE NORTH 1
METTIKA 1
VERBENA 1
MARSILEA 1
AMYEMA 1
TARWONGA 1
BRUMBY 1
TOOLACHEE 1
KEETO 1
MARARANKA 1
MUNKARIE 1
AZOLLA 1
GLIMMA 1
EGLINT 1
GIDGEE 1
MUNRO 1
WIRHA 1
COOBOWIE 1
MUNKARIE SOUTH 1
BELAH 1
ASHBY 1
MARRAR 1
RHEIMS 1
TICKALARA 1
MOOLIAMPAH 1
HYDRIGMA 1
WILLS 1
WILLS EAST 1
HONEYTIN 1
ATOLL 1
WOMPAH 1
WUROOPIE 1
OMICRON 1
PIGEON LAKE 1
GSQ TICKALARA 1

100 | 200 | 300 | 400 | 500

TOOLACHEE FM ABSENT
TOOLACHEE FM ABSENT

THICK

ZERO EDGE FM

TOOLACHEE

N

COOPER BASIN

TOOLACHEE FM

ISOPACH MAP

C.I 100'

0 MILES 10

KILOMETRES 10. 0 10 20 30 40 50 KILOMETRES

ENCLOSURE 3.3d

090PH
A639
MAPS
c.2

UNIVERSITY OF ADELAIDE LIBRARY

139 15
139 30
140
140 30
141
26 40
27
27 30
28
28 30
29

ZERO EDGE
NAPPAMERRI GR
THICK
NAPPAMERRI

200
400
600
800
1000
1200

JAMES 1
DERAMOOKOO 1
CUTTAPIRRIE 1
BEANBUSH 1
LAMDINA 1
YANTA 1
TITAN 1
CHARO 1
DARTER 1
MOOLION 1
MITCHIE 1
DELIN 1
TOONMAN 1
COONATIE 1
CALLABONNA 1
MOORARI 1
WOOLKINA 1
BIMBAYA 1
BOOKABOURDIE 1
BALCAMINGA 1
MERUPA 1
PONDRINIE 1
PACKSADDLE 1
INNAMINCKA 1
BROLGA 1
MINGANA 1
FLY LAKE 1
KALLADEINA 1
PIRRAMINTA 1
WANTANA 1
MINKIE 1
DEPARANIE 1
TIRRAWARRA 1
KIRBY 1
ANDREE 1
VARANUS 1
GOORANIE 1
LELEPTIAN 1
NULLA 1
WELCOME LAKE 1
KANOWANA 2
MERRIMELIA 1
BURLEY 1
MCLEOD 1
SWAN LAKE 1
COWRALLI 1
TINDILPIE 1
SNAKE HOLE 1
JACK LAKE 1
GIDGEALPA 1
LYCIUM 1
MAWSON 1
KURUNDA 1
THREE QUEENS 1
NAPPACOONGEE 1
POORAKA 1
WILPINNIE 1
DULLINGARI NORTH 1
DULLINGARI 1
DELLA 1
EPSILON 1
LAKE HOPE 1
MUTEROO 1
KIRRALEE 1
SPENCER 1
ARRAKIS 1
MOOMBA NORTH 1
MOOMBA 1
BIG LAKE 1
LOWANNA 1
MUDERA 1
MINA 1
PINTARI NORTH 1
WIRRARIE 1
TOPWEE 1
POGONA 1
PINTARI 1
KARILLA 1
COOLOON 1
STRZELECKI 1
MARANA 1
KIDMAN 1
DILCHEE 1
KERNA 1
ALISMA 1
CARAKA 1
BARATTA 1
WITCHETTY 1
TOOLACHEE NORTH 1
MUDLALEE 1
CHILDIE 1
CHILCARRIE 1
TARWONGA 1
VERBENA 1
MEITIKA 1
MARSILEA 1
AMYEMA 1
BRUMBY 1
KALANNA 1
GOYDER 1
KERINNA 1
MURTEREE 1
BARCOOLOO 1
TOOLACHEE 1
KEETO 1
MAHARANKA 1
MUNKARIE 1
AZOLLA 1
GLIMMA 1
BOOBOOK 1
COWAN 1
MOOLALLA 1
YALCUMMA 1
WAUKATANNA 1
YAPENI 1
PANDO NORTH 1
PANDO 1
DEINA 1
LYCOSA 1
THURAKINNA 1
MANOOKA 1
MERINDA 1
C1
PINNA 1
MCKINLAY 1
ALKOOMI 1
LIMESTONE CREEK 1
JENA 1
NUNGEROO 1
KIWARRICK 1
DUNOON 1
KOBARI 1
PANDRUANNIE 1
KUJANI 1
BOXWOOD 1
WANCOOCHA 1
DIRKALGARANJANIE 1
BATTUNGA 1
WIRHA 1
COOBOWIE 1
MUNKARIE SOUTH 1
GIDGEE 1
WUROOPIE 1

0 MILES 10

141 | 141 30 | 142 | 142 30

26 40 | 27 | 27 30 | 28 | 28 30 | 29

COOK 1 | JAMES 1 | BARROLKA 1 | TOBY 1

800 | 1000 | 1200 | 1400 | 600 | 400 | 200

MACADAMA 1 | MAHL 1 | TALLALIA 1 | CHALLUM 1 | TARTULLA 1 | OKOTOKO 1 | BALLERA 2 | MUNKAH 1 | JUDGA 1 | BALLAT 1 | YANDA 1 | WACKETT 1 | NACCOWLAH 1 | NACCOWLAH EAST 1 | NACCOWLAH SOUTH 1 | KARRI 1 | CHOOKOO 5 | INNAMINCKA 1 | PACKSADDLE 1 | KIRBY 1 | KARWIN 1 | KUTYO 1 | PALLANO 1 | BARYULAH 1 | CORELLA 1 | ECHUBURRA 1 | GOORA 1 | DINGERA 1 | THOAR 1 | ELLA 1 | MARRAR 1 | ATOLL 1 | WOMPAH 1

THICK

ZERO

EDGE

MCLEOD 1 | THREE QUEENS 1 | ORIENTOS NORTH 1 | LAMBDA 1 | ORIENTOS 1 | DULLINGARI NORTH 1 | DULLINGARI 1 | EPSILON 1 | ROSENEATH 1 | HUME 1 | DILCHEE 1 | KERNA 1 | ALISMA 1 | KIDMAN 1 | BELAH 1 | ASHBY 1 | RHEIMS 1 | WITCHETTY 1 | METTIKA 1 | VERBENA 1 | MARSILEA 1 | AMYEMA 1 | BRUMBY 1 | MOOLIAMPAH 1 | HYDRIGMA 1 | TICKALARA 1 | WILLS 1 | WILLS EAST 1 | GLIMMA 1 | MUNKARIE 1 | AZOLLA 1 | WIRHA 1 | COOBOWIE 1 | MUNKARIE SOUTH 1 | GIDGEE 1 | EGLINT 1 | MUNRO 1 | HONEYTIN 1

GR

NAPPAMERRI

GSQ TICKALARA 1

OMICRON 1 | PIGEON LAKE 1

COOPER BASIN

NAPPAMERRI GR

ISOPACH MAP

0 MILES 10 | C.I 200'

KILOMETRES 10 0 10 20 30 40 50 KILOMETRES

141 | 141 30 | 142 | 142 30

ENCLOSURE 3.3e

090PH
A639
MAPS
c.2

UNIVERSITY OF ADELAIDE LIBRARY

139 15
139 30
140
140 30
141
26 40
27
27 30
28
28 30
29

LIMIT
BASIN
EDGE
ZERO
TOOLACHEE FM
COOPER
NAPPAMERRI GR
FLY LAKE
TIRRAWARRA
BOOKABOURDIE
PONDRINIE
INNAMINCKA
MERRIMELIA
GIDGEALPA
SPENCER
MOOMBA
BIG LAKE
DELLA
DULLINGARI
STRZELECKI
TOOLACHEE
MURTEREE HIGH
NAPPAMERRI GR
ZERO
TOOLACHEE FM
COOP

141 | 141 30 | 142 | 142 30

26 40 | 27 | 27 30 | 28 | 28 30 | 29

EDGE

INNAMINCKA

ONDRINIE

CHALLUM

U
D

NACCOWLAH

JACKSON

ELLA

DULLINGARI

EPSILON

D/U

D/U

TRZELECKI

TOOLACHEE

ZERO EDGE

ZERO EDGE

BASIN

LIMIT

NAPPAMERRI GR

TOOLACHEE FM

COOPER

N

COOPER BASIN

POST NAPPAMERRI GR

STRUCTURAL MAP

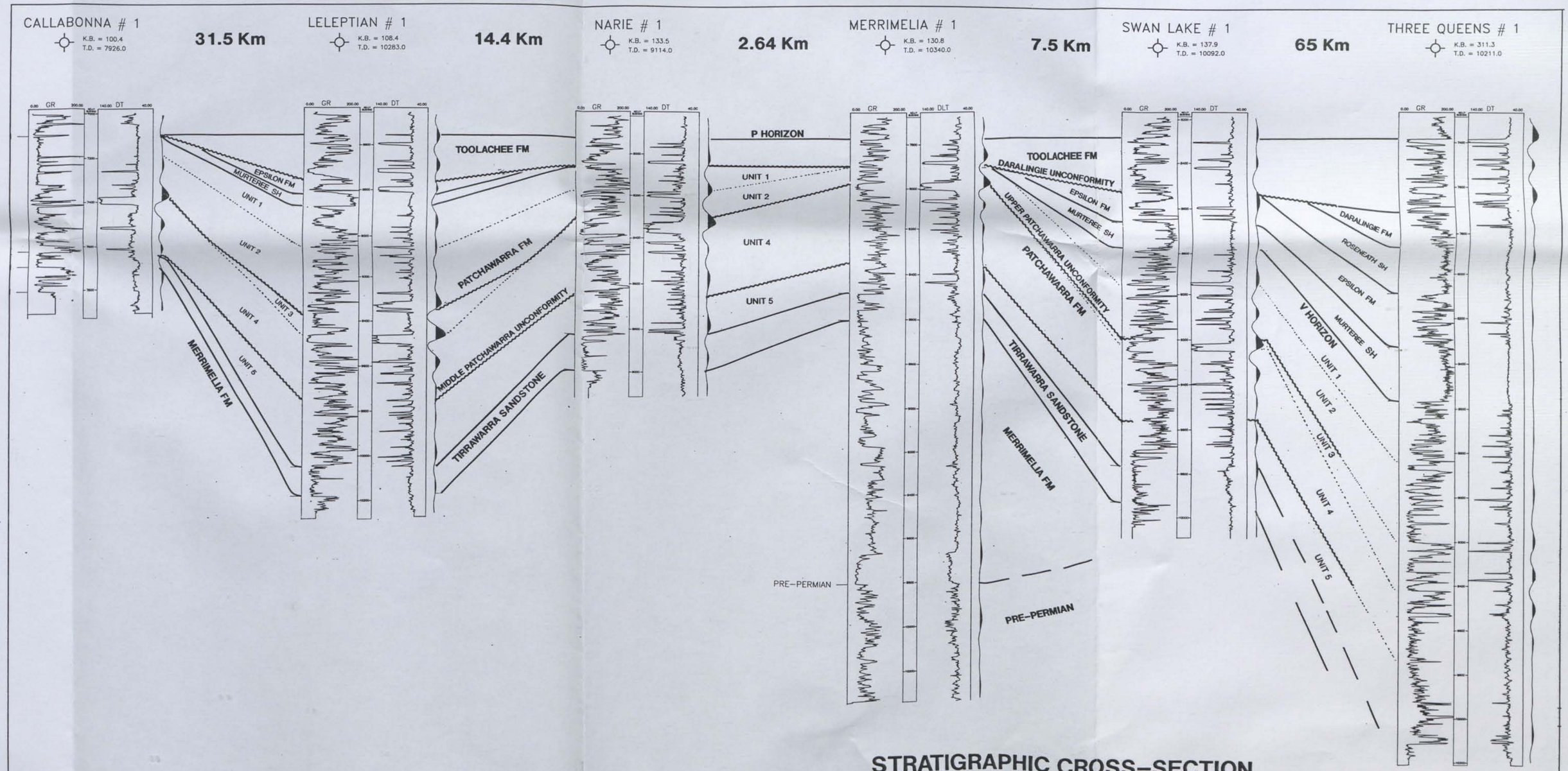
0 MILES 10

KILOMETRES 10 0 10 20 30 40 50 KILOMETRES

ENCLOSURE 3.3f

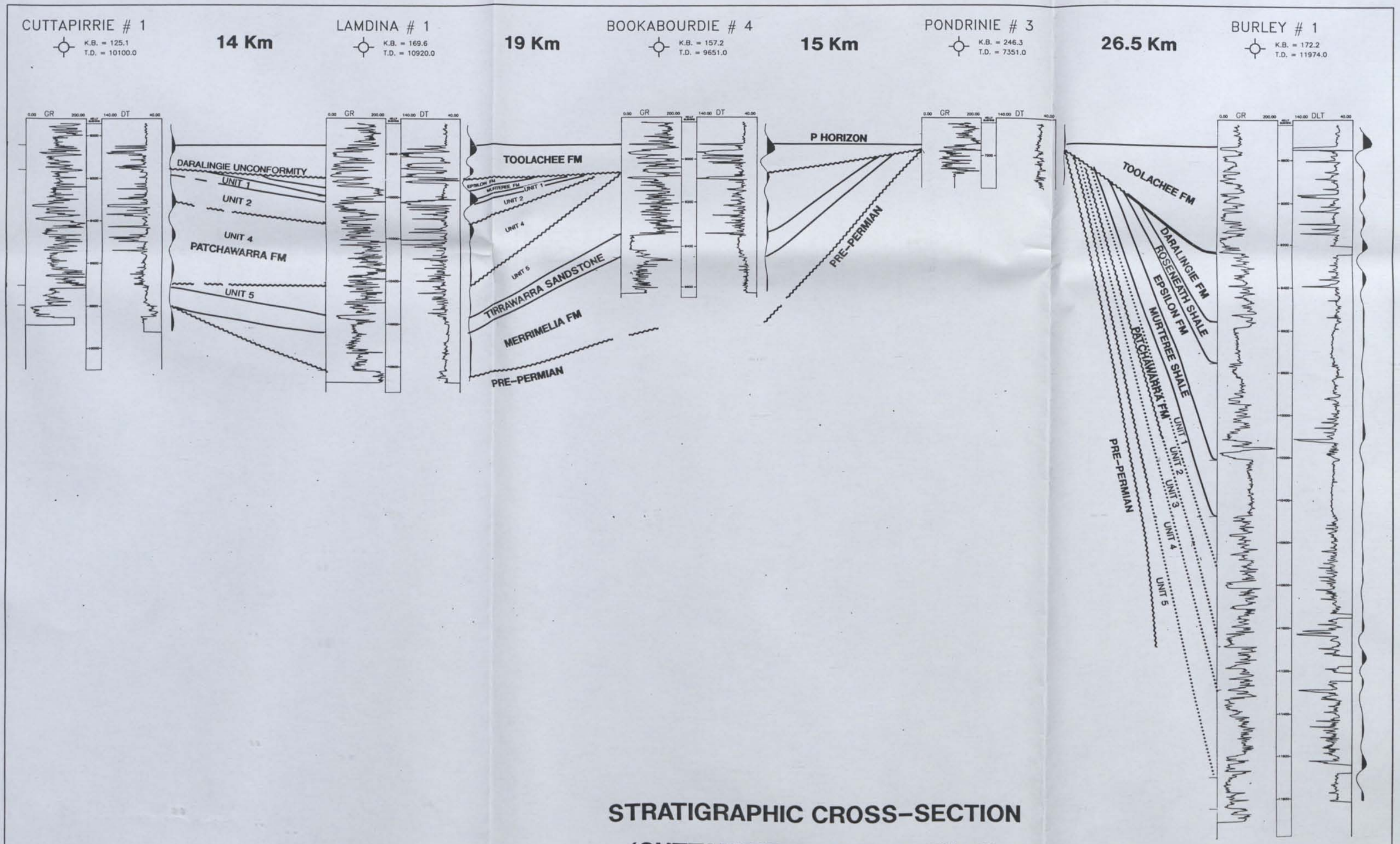
UNIVERSITY OF ADELAIDE LIBRARY
090PH
A639
Map
c.2





STRATIGRAPHIC CROSS-SECTION
(CALABONNA-1 TO THREE QUEEN-1)
I – I'

H.S: DIAGRAMATIC



STRATIGRAPHIC CROSS-SECTION
(CUTTAPIRIE-1 TO BURLEY-1)
II – II'

H.S: DIAGRAMATIC

BURLEY # 1
K.B. = 172.2
T.D. = 11974.0

24 Km

THREE QUEENS # 1
K.B. = 311.3
T.D. = 10211.0

18.5 Km

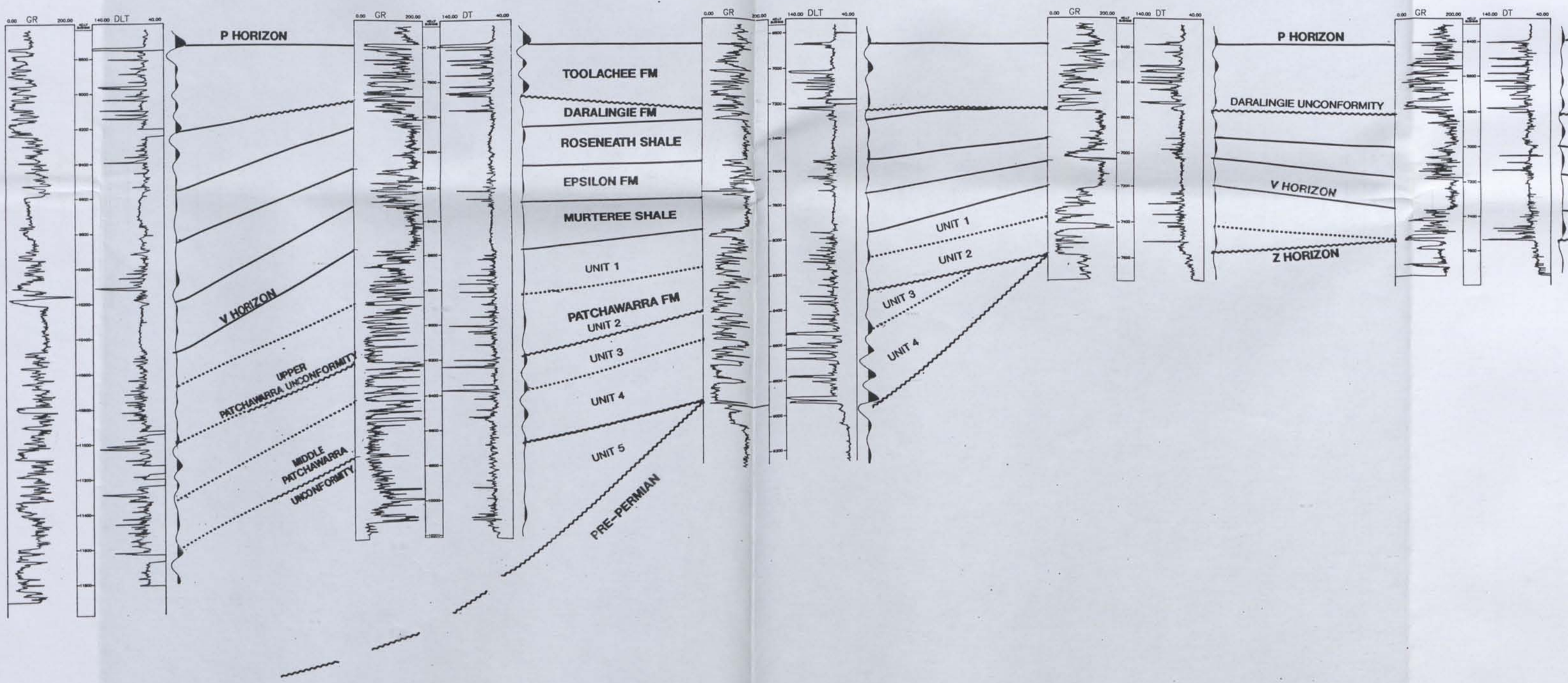
DULLINGARI # 1
K.B. = 301.4
T.D. = 11555.0

13 Km

KIDMAN # 1
K.B. = 240.4
T.D. = 7732.0

10.5 Km

TOOLACHEE NORTH # 1
K.B. = 189.1
T.D. = 7792.0



10.5 Km

TOOLACHEE NORTH # 1

K.B. = 189.1
T.D. = 7792.0

13 Km

TOOLACHEE # 1

K.B. = 194.4
T.D. = 7232.0

14.5 Km

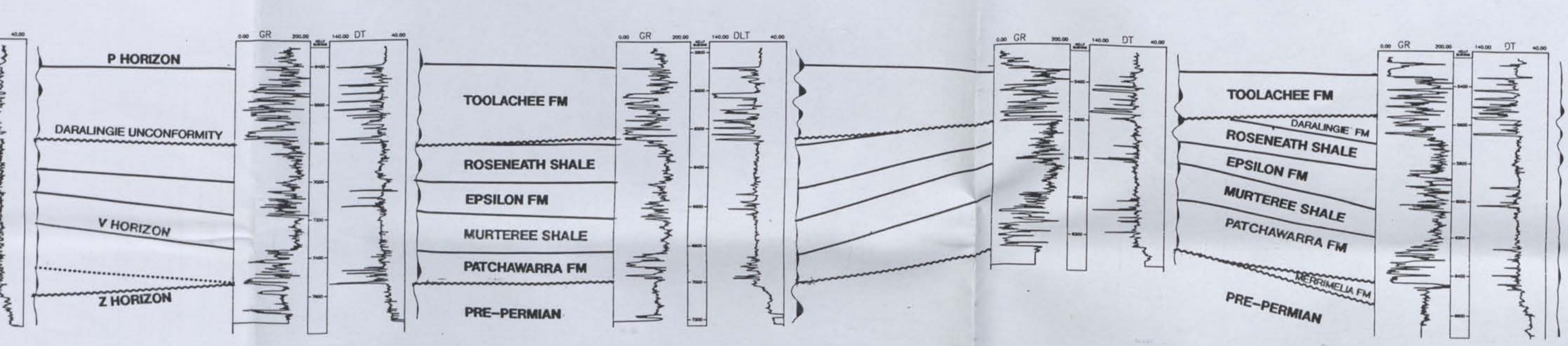
WIRHA # 1

K.B. = 226.9
T.D. = 6386.0

15.5 Km

WUROOPIE # 1

K.B. = 192.9
T.D. = 6714.0



STRATIGRAPHIC CROSS-SECTION
(BURLEY-1 TO WUROOPIE-1)
III – III'

H.S: DIAGRAMATIC

TOOLACHEE # 23

K.B. = 204.6
T.D. = 7776.0

19 Km

METTIKA # 1

K.B. = 295.4
T.D. = 8246.0

24 Km

EPSILON # 4

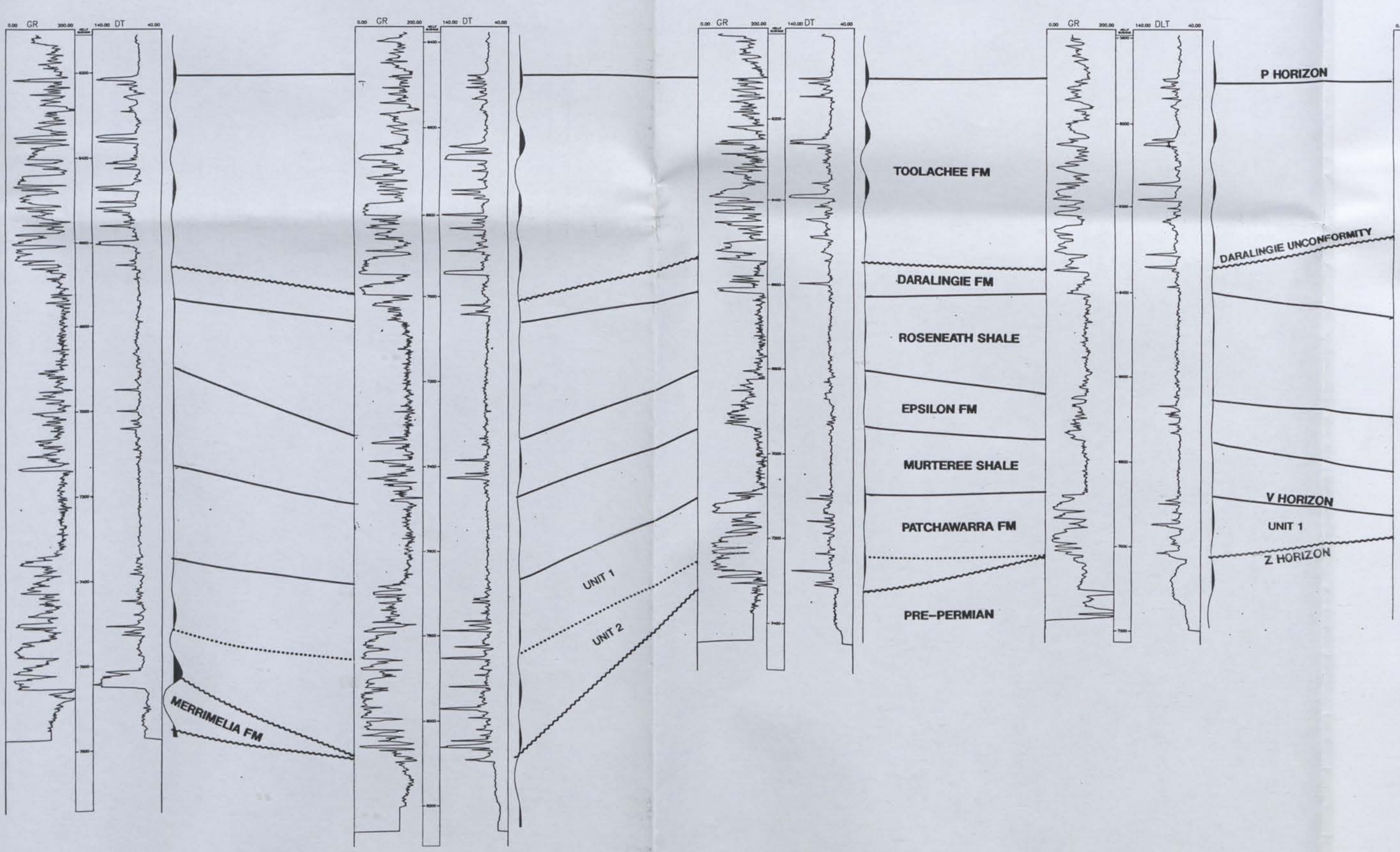
K.B. = 385.3
T.D. = 7429.0

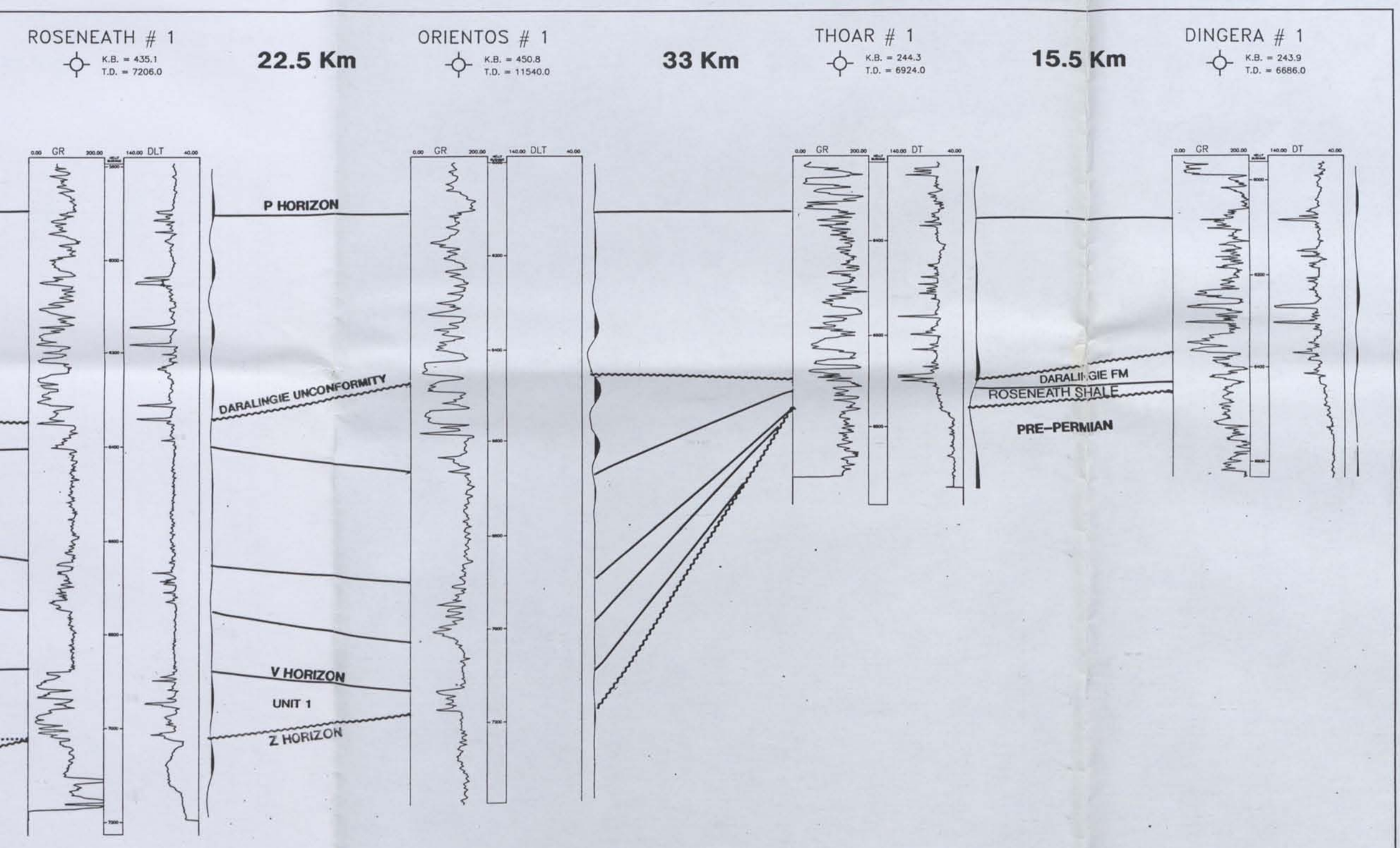
11 Km

ROSENEATH # 1

K.B. = 435.1
T.D. = 7206.0

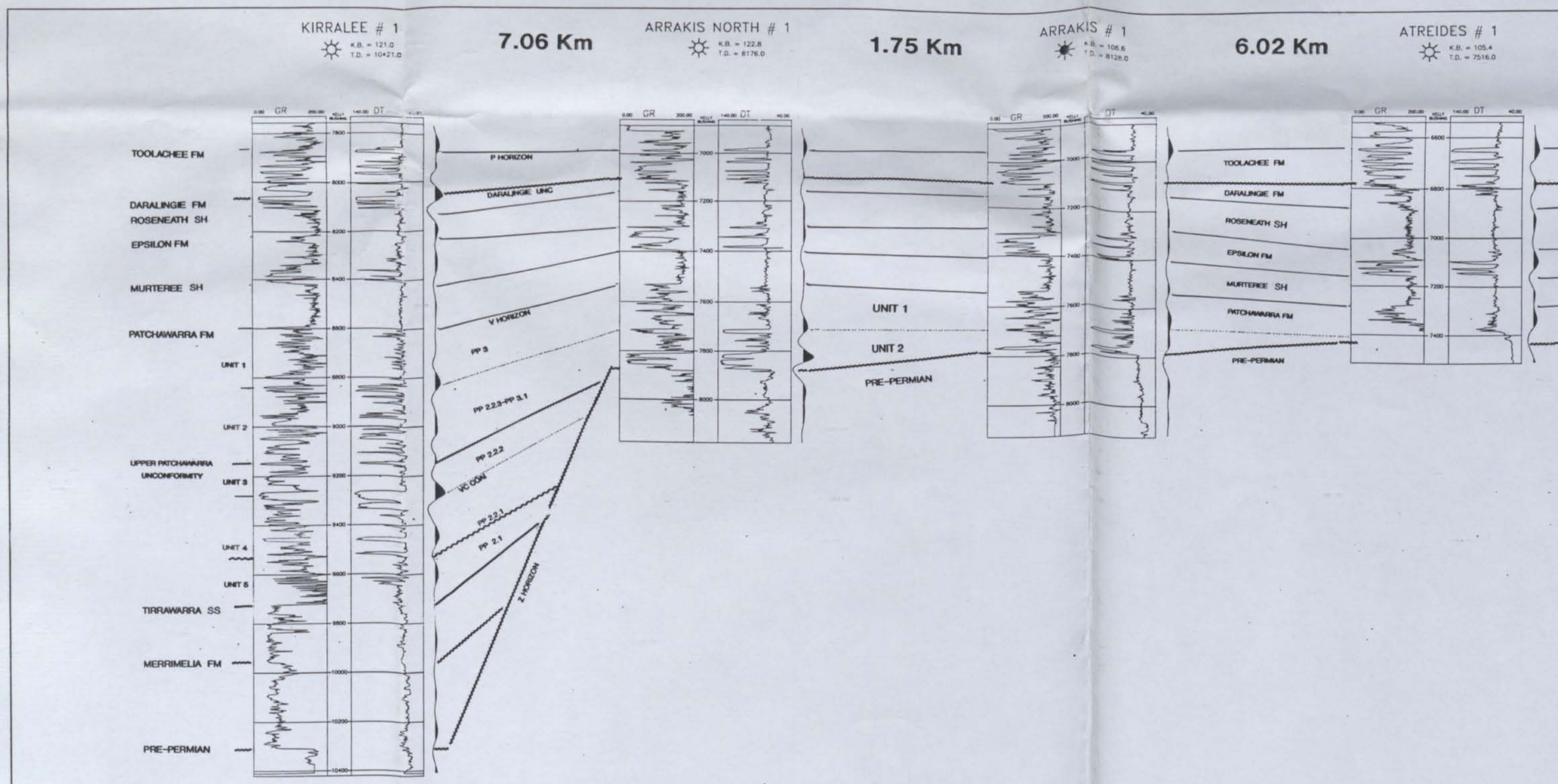
22.5 Km

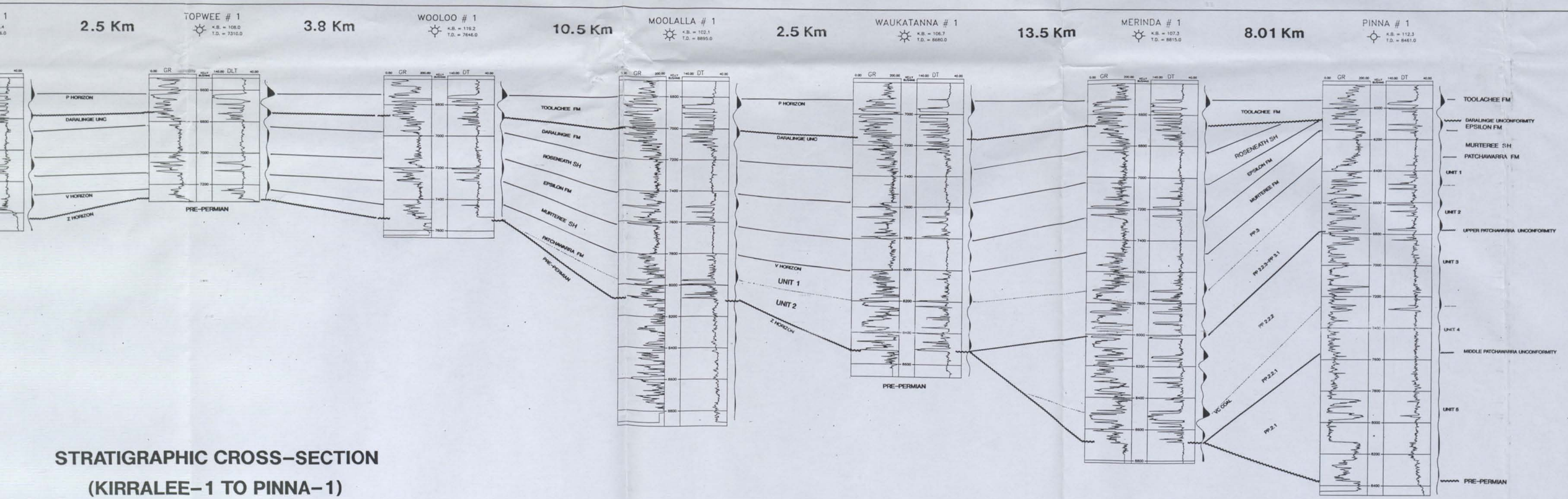




STRATIGRAPHIC CROSS-SECTION
(TOOLACHEE-23 TO DINGERA-1)
IV – IV'

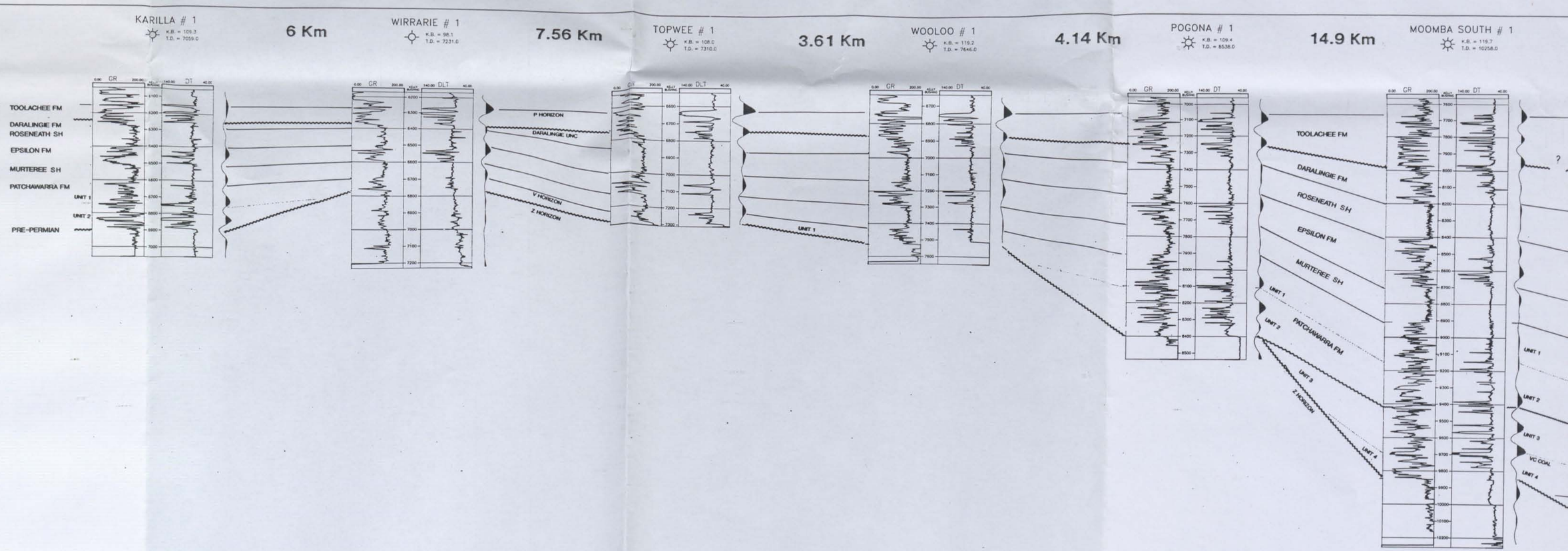
H.S:DIAGRAMATIC


KIRRALEE # 1
K.B. = 121.0
T.D. = 10421.0
7.06 Km
ARRAKIS NORTH # 1
K.B. = 122.8
T.D. = 8176.0
1.75 Km
ARRAKIS # 1
K.B. = 106.6
T.D. = 8128.0
6.02 Km
ATREIDES # 1
K.B. = 105.4
T.D. = 7516.0
GR
DT
TOOLACHEE FM
DARALINGIE FM
ROSENEATH SH
EPSILON FM
MURTEREE SH
PATCHAWARRA FM
UNIT 1
UNIT 2
UPPER PATCHAWARRA UNCONFORMITY
UNIT 3
UNIT 4
UNIT 5
TIRRAWARRA SS
MERRIMELIA FM
PRE-PERMIAN
P HORIZON
DARALINGIE UNC
V HORIZON
PP 3
PP 2.2.3-PP 3.1
PP 2.2.2
VC CON
PP 2.2.1
PP 2.1
Z HORIZON
UNIT 1
UNIT 2
PRE-PERMIAN
TOOLACHEE FM
DARALINGIE FM
ROSENEATH SH
EPSILON FM
MURTEREE SH
PATCHAWARRA FM
PRE-PERMIAN



STRATIGRAPHIC CROSS–SECTION
(KIRRALEE–1 TO PINNA–1)
V – V'

H.S: DIAGRAMATIC


KARILLA # 1
K.B. = 105.3
T.D. = 7059.0
6 Km
WIRRARIE # 1
K.B. = 98.1
T.D. = 7231.0
7.56 Km
TOPWEE # 1
K.B. = 108.0
T.D. = 7310.0
3.61 Km
WOOLOO # 1
K.B. = 119.2
T.D. = 7640.0
4.14 Km
POGONA # 1
K.B. = 109.4
T.D. = 8538.0
14.9 Km
MOOMBA SOUTH # 1
K.B. = 119.7
T.D. = 10258.0
TOOLACHEE FM
DARALINGIE FM
ROSENEATH SH
EPSILON FM
MURTEREE SH
PATCHAWARRA FM
UNIT 1
UNIT 2
PRE-PERMIAN
P HORIZON
DARALINGIE UNC
V HORIZON
Z HORIZON
UNIT 3
UNIT 4
VC COAL

MOOMBA SOUTH # 1
K.B. = 119.7
T.D. = 10258.0

7.8 Km

MOOMBA # 57
K.B. = 126.7
T.D. = 10444.0

2.28 Km

BIG LAKE # 32
K.B. = 132.3
T.D. = 9567.0

2.06 Km

BIG LAKE # 31
K.B. = 151.8
T.D. = 10396.0

8.05 Km

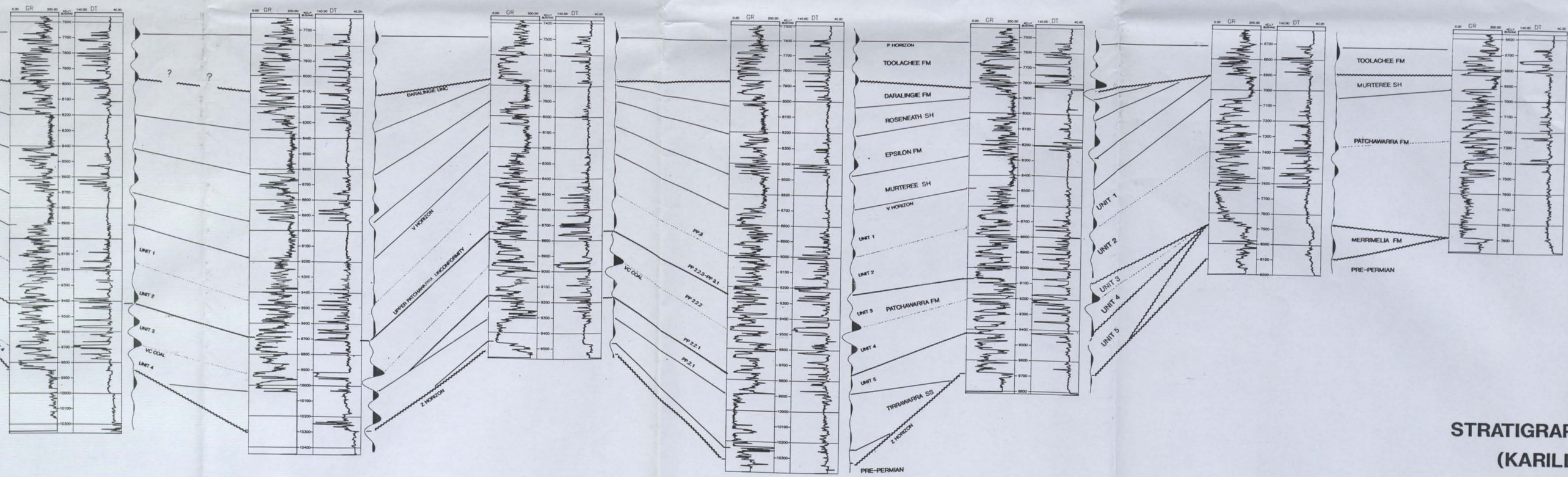
LOWANNA # 1
K.B. = 134.3
T.D. = 9815.0

14 Km

MINA # 1
K.B. = 137.1
T.D. = 8200.0

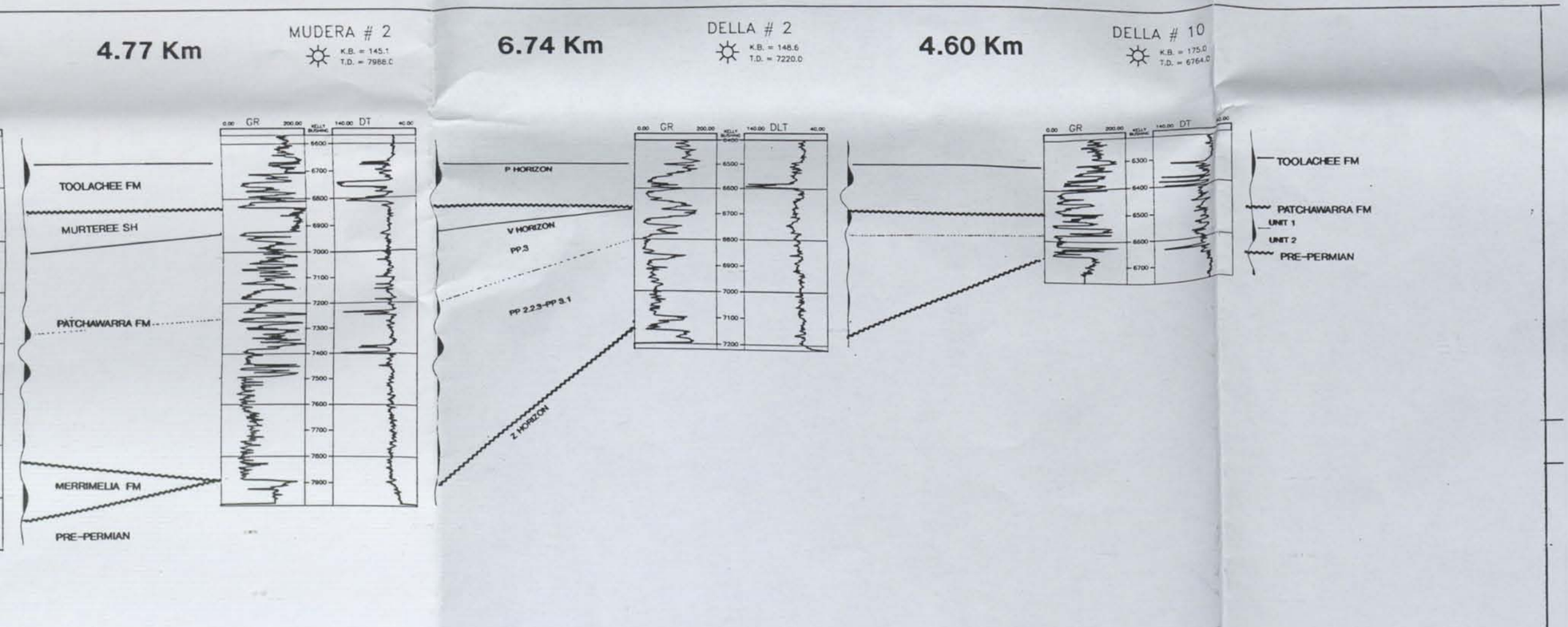
4.77 Km

MUDERA # 2
K.B. = 145.1
T.D. = 7988.0



STRATIGRAP
(KARILL

H.S:



STRATIGRAPHIC CROSS-SECTION
(KARILLA-1 TO DELLA-10)
VI — VI'

H.S: DIAGRAMATIC

H.S:DIAGRAMATIC

COOPER BASIN

REGIONAL

STRATIGRAPHIC CROSS–SECTIONS

MONTAGE

ENCLOSURE 3.4

090 PH
A639
Maps
c.2

UNIVERSITY OF ADELAIDE LIBRARY

A

BOOKABOURDIE

SP 817 674202
CDP 438 500 550 600 650 700 750 800 850 900 950 1000 1050 1100 1150 1200 1250 1346 1284 1200 1150 1100 1050 1000 950 900 8
TRACE 1 50 100 150 200 250 300 350 400 450 500 550 600 650 700 750 800 850 914 884 81-KMT 86-ZTG 1-KPW YBQ -KNC -CWD -KPX

4 8 3

0.000
0.500
1.000
1.5
2.0

SECONDS

85-YBK

86-ZTH

1 Km

C
P
Z
T.D
T.D
T.D

B

FLY

120 40 60 80 120 82-LMQ 200 240 280 320 360 80-JZH 480 520 560 600 640 86-ZXX 780 820 860 84-SB 90 90-CJYD 86-ZYA 1140 1 86-ZYB 1260 1300 86-ZYER 80-J

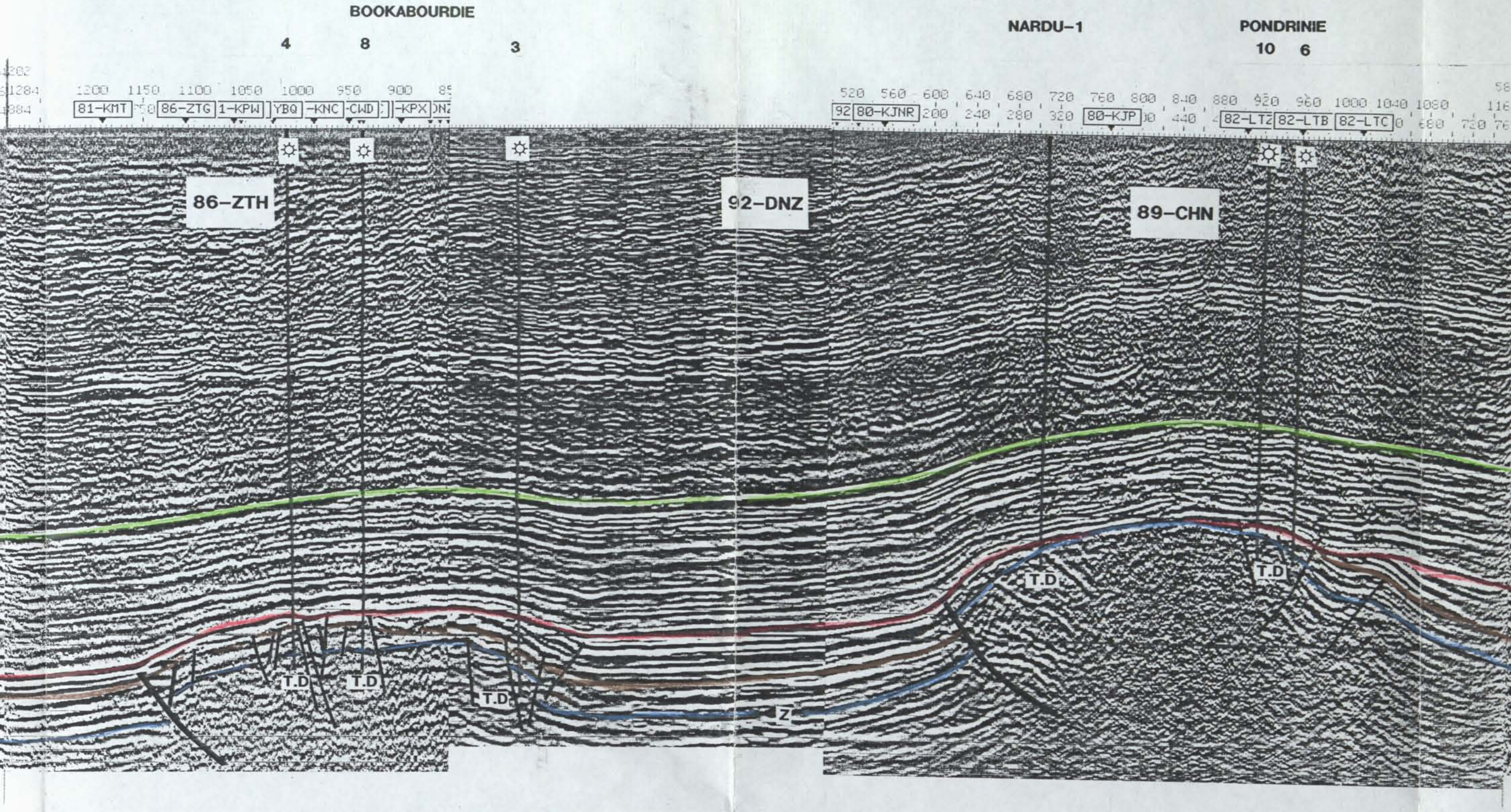
0.000
1.5
2.0

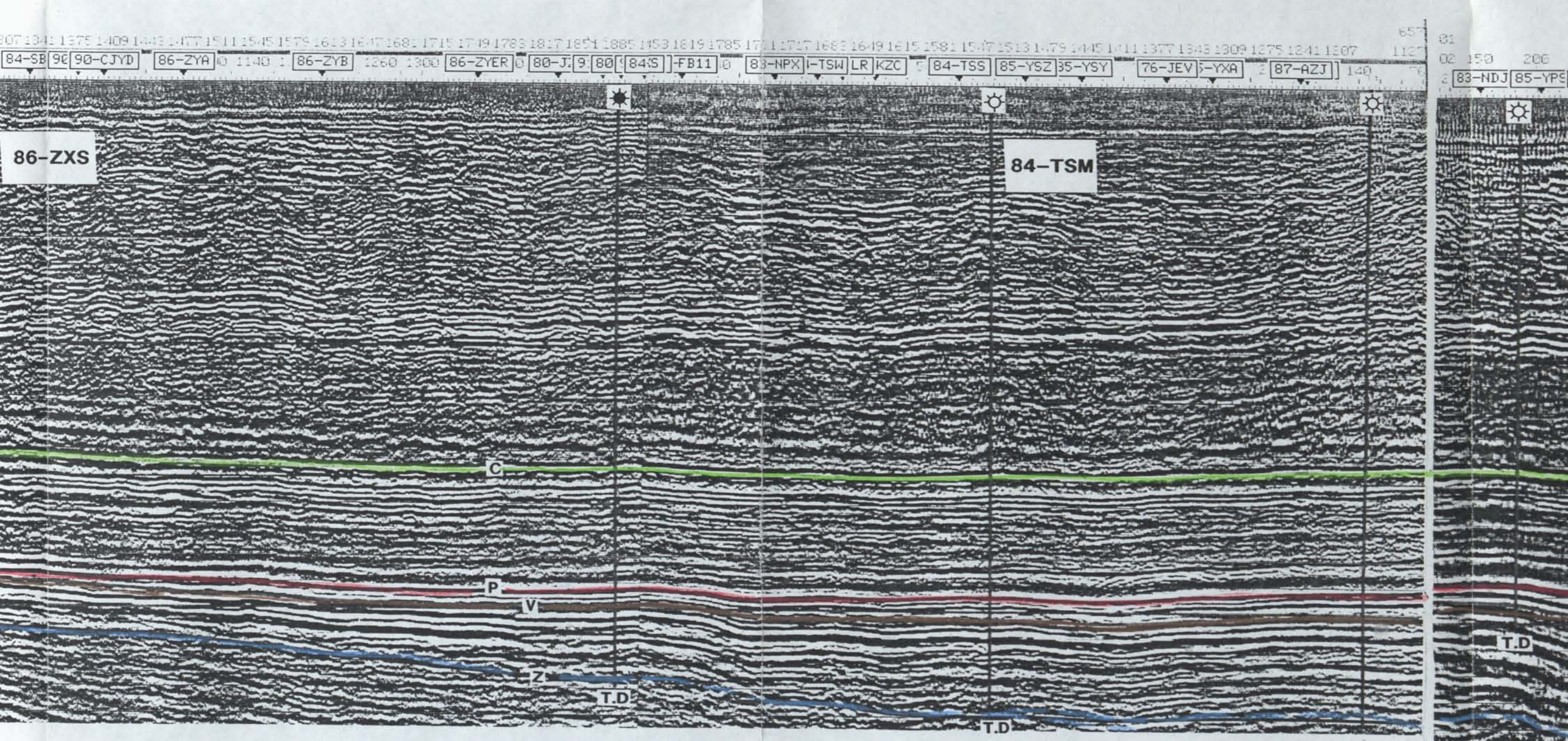
SECONDS

86-ZXS

C
P
V
Z

1 Km


BOOKABOURDIE
4
8
3
NARDU–1
PONDRINIE
10
6
81–KMT
86–ZTG
1–KPW
YBQ
–KNC
–CWD
–KPX
80–KJNR
80–KJP
82–LTZ
82–LTB
82–LTC
86–ZTH
92–DNZ
89–CHN
T.D
T.D
T.D
Z
T.D
T.D


FLY LAKE–1
SPECTRE–1
VARANUS–2
MERANJI–2
84–SB
90–CJYD
86–ZYA
86–ZYB
86–ZYER
84–FB11
84–NPX
84–TSS
85–YSZ
85–YSY
76–JEV
87–AZJ
83–NDJ
86–ZXS
84–TSM
C
P
V
Z
T.D
T.D
T.D

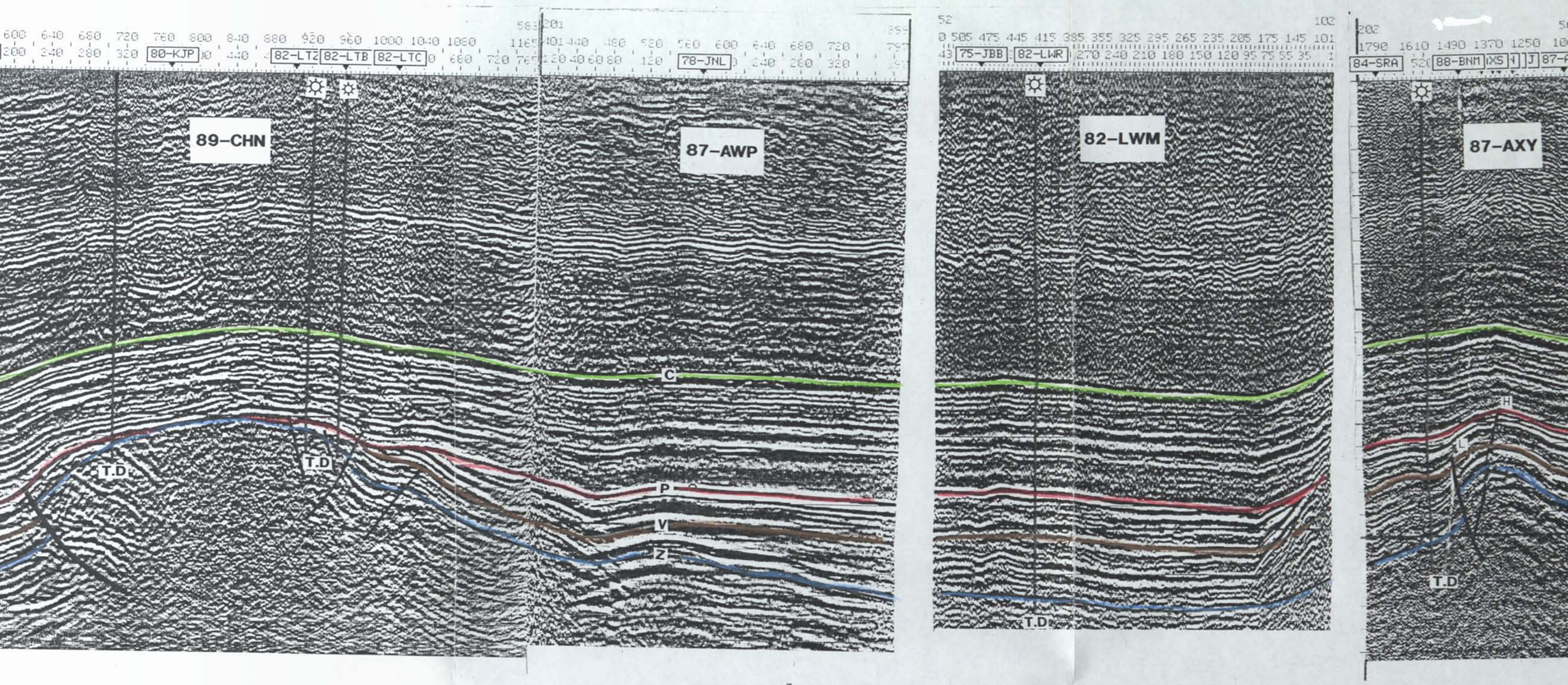
NARDU–1

PONDRINIE

10 6

MC LEOD–1

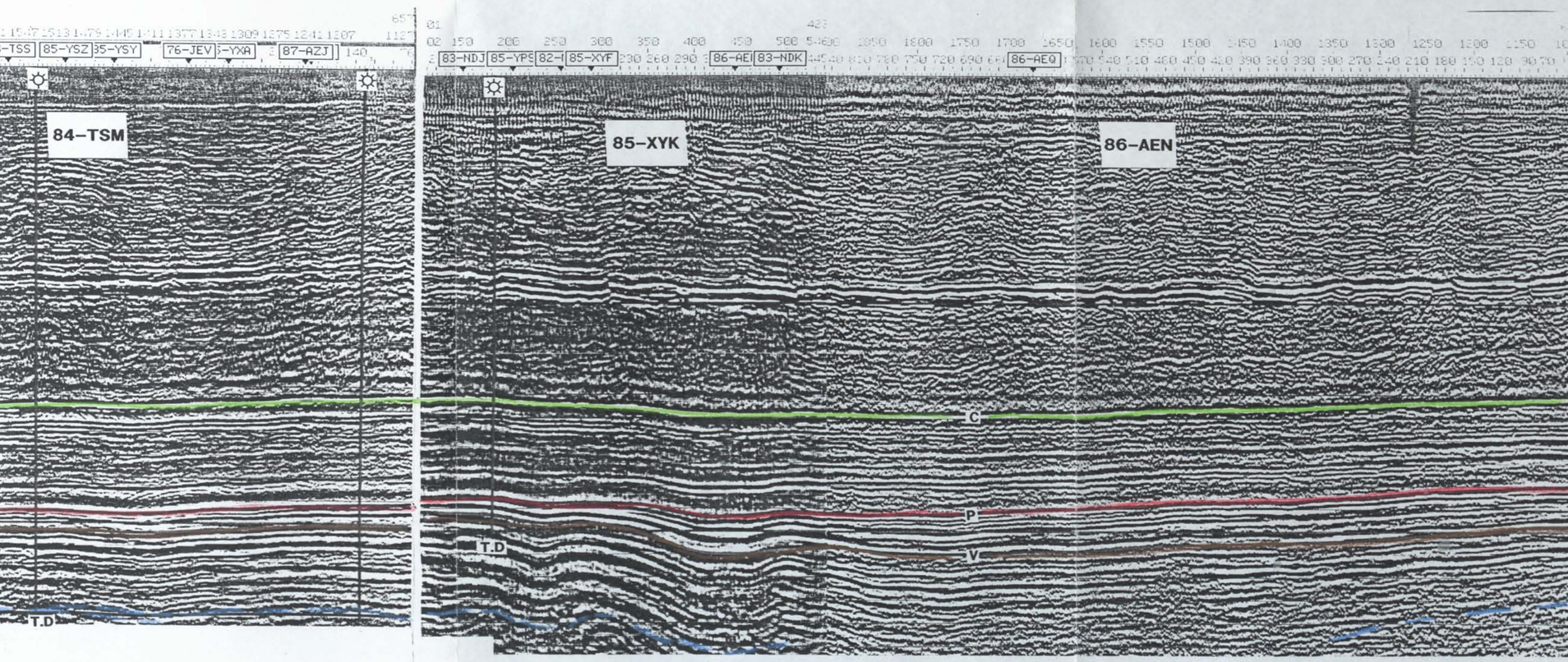
THREE QUEENS-1

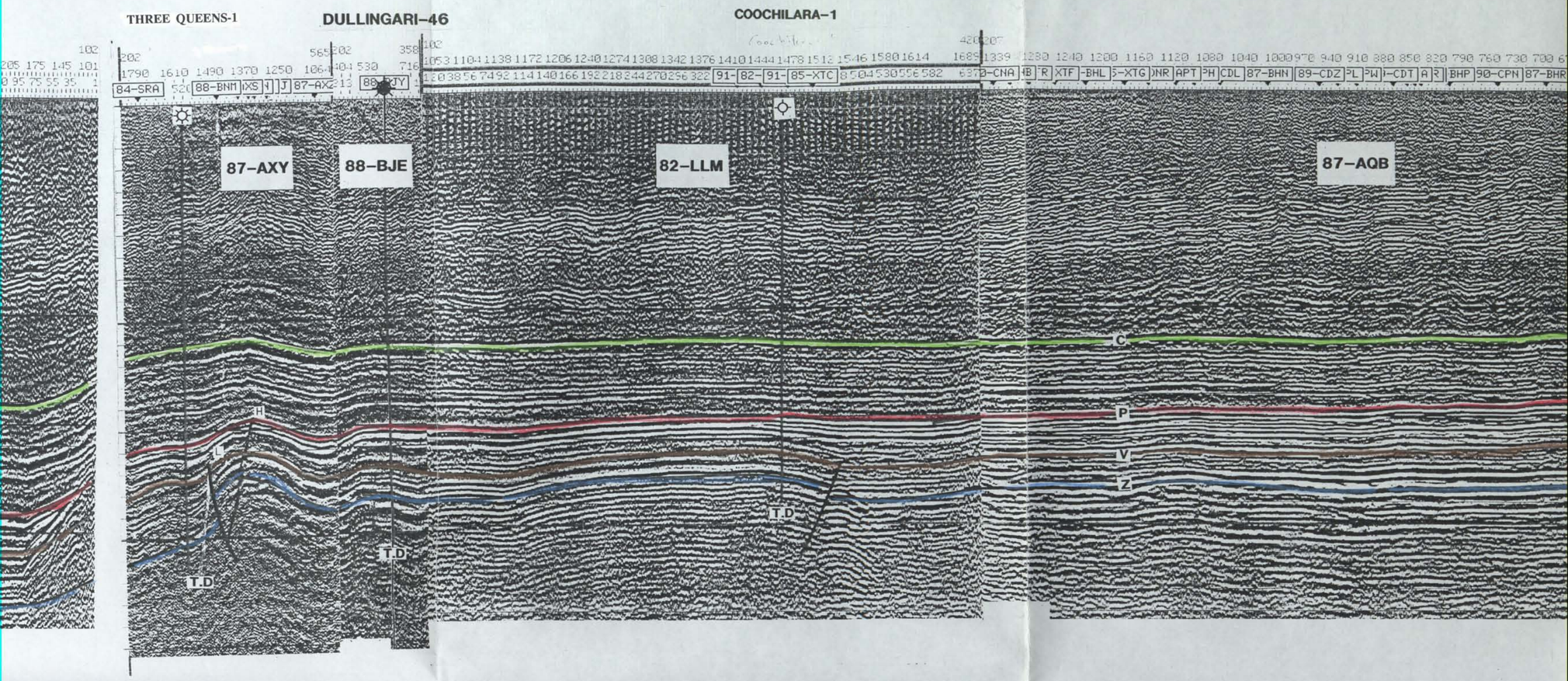


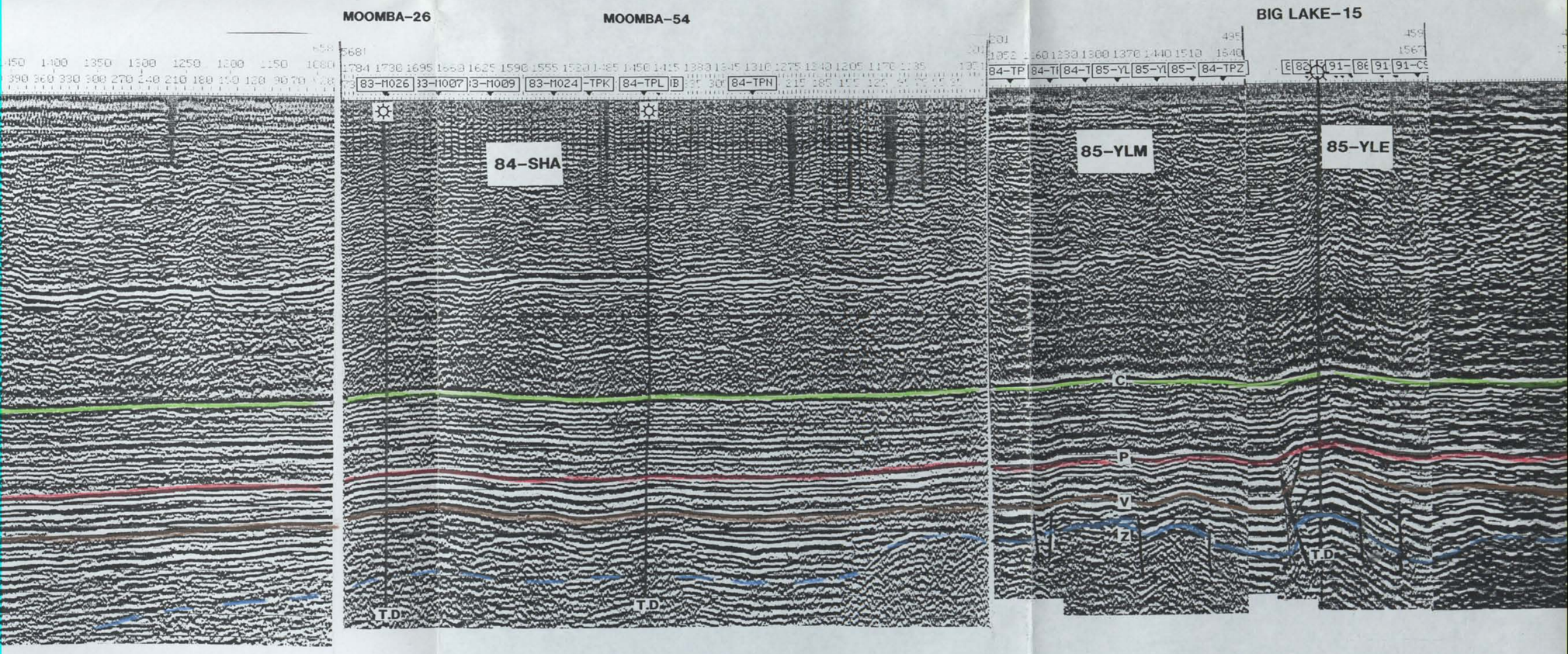
SPECTRE–1

VARANUS–2

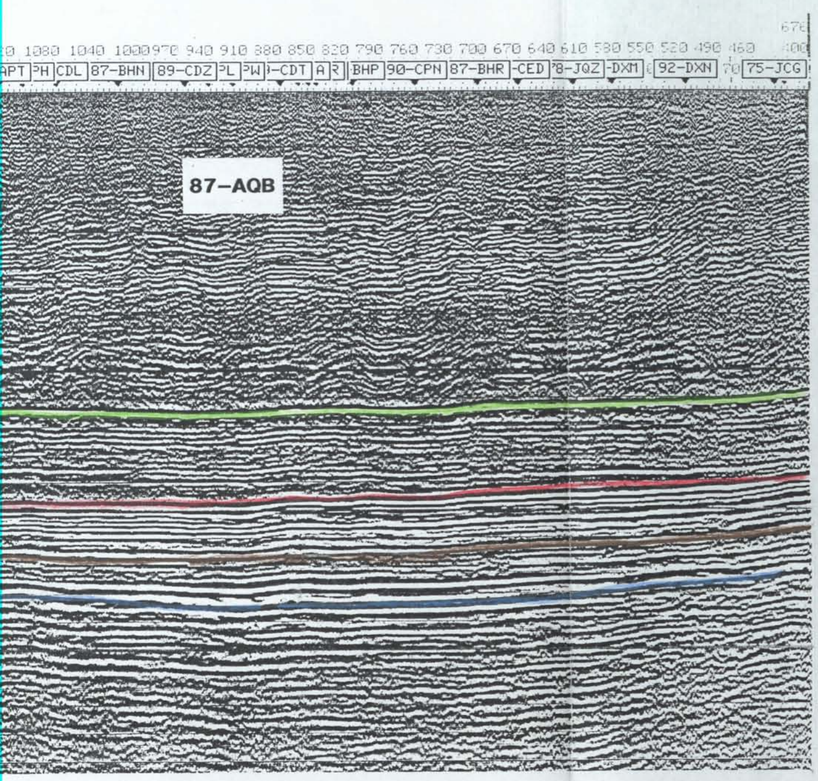
MERANJI–2




THREE QUEENS-1
DULLINGARI-46
COOCHILARA-1
87-AXY
88-BJE
82-LLM
87-AQB
C
P
V
Z
T.D
T.D
T.D

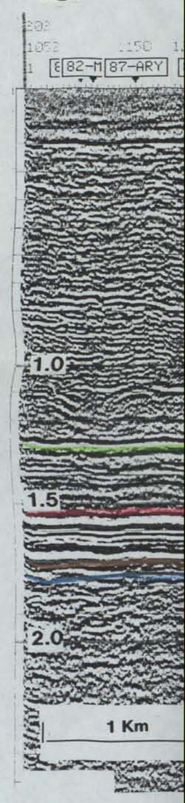

MOOMBA-26
MOOMBA-54
BIG LAKE-15
84-SHA
85-YLM
85-YLE
C
P
V
Z
T.D
T.D
T.D

A'



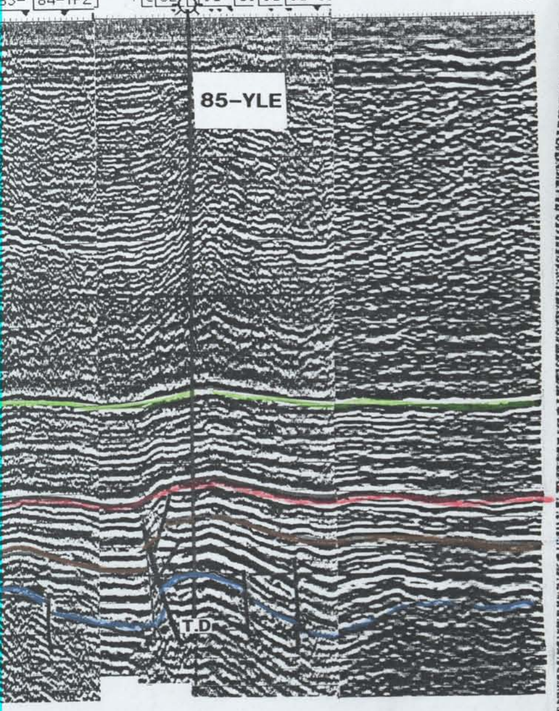


C

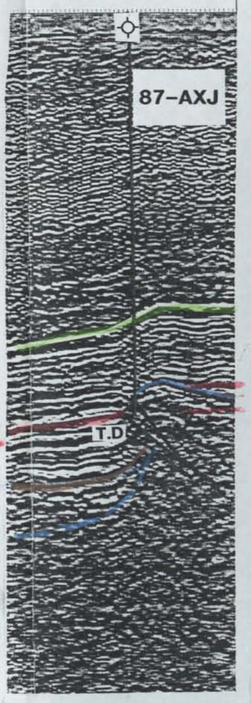


SECONDS

BIG LAKE-15

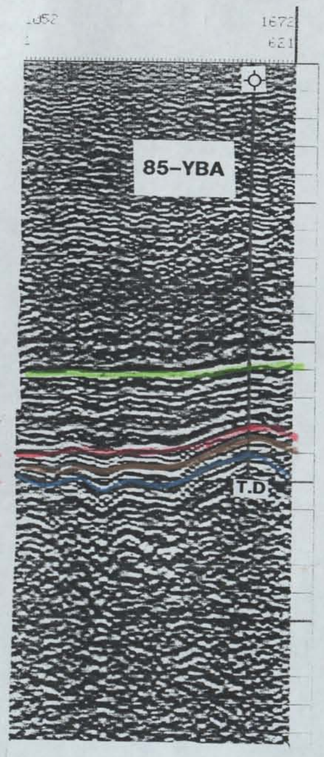


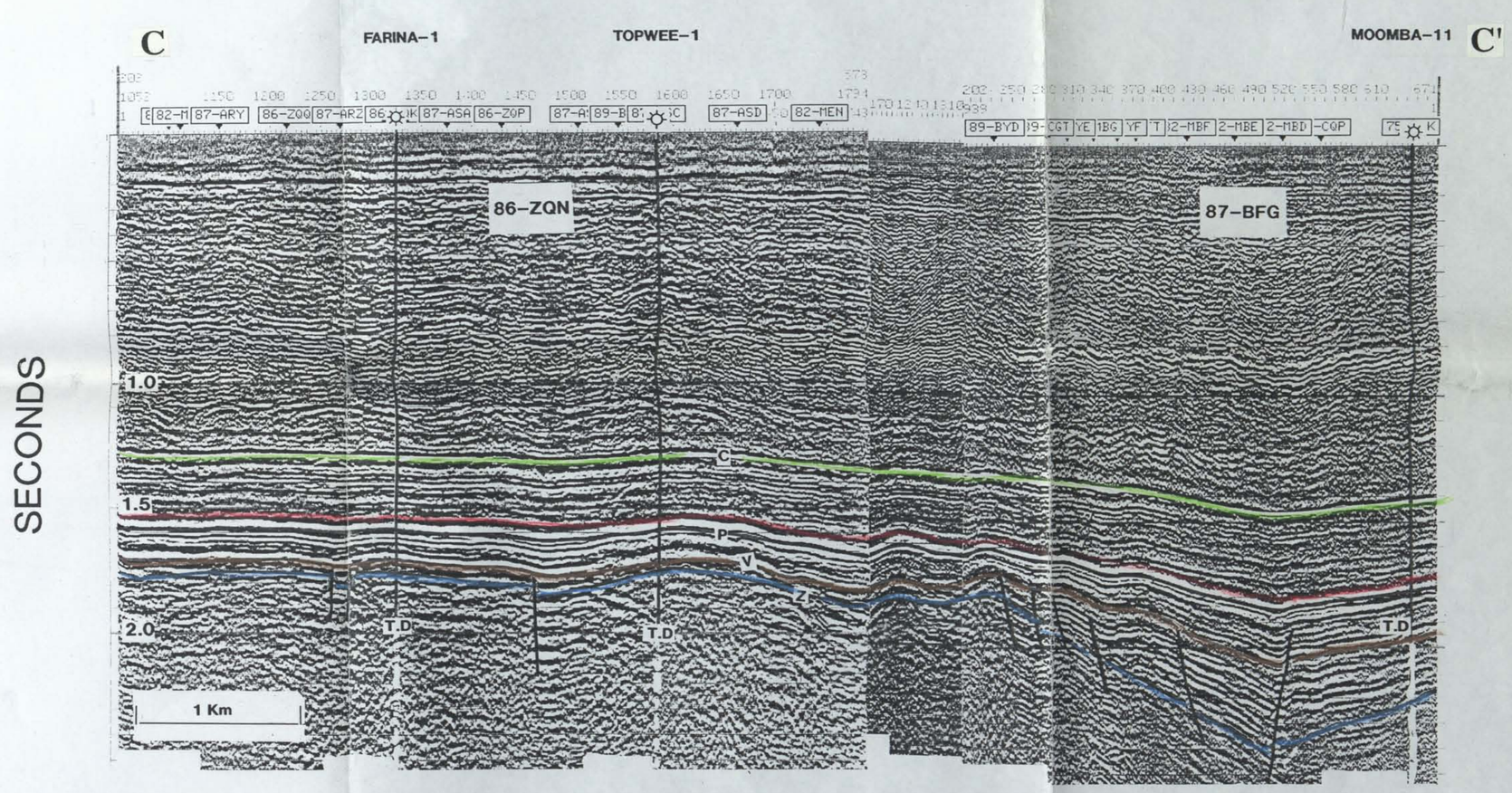
BUCKINNA-1



WUROOPIE-1

B'





COOPER BASIN

REGIONAL SEISMIC SECTIONS

MONTAGE

ENCLOSURE 3.5