COMMONWEALTH OF AUSTRALIA.

DEPARTMENT OF NATIONAL DEVELOPMENT. BUREAU OF MINERAL RESOURCES GEOLOGY AND GEOPHYSICS.

RECORDS.

1958/74

MICROPALAEONTOLOGY OF SAMPLES FROM THE SURAT AREA.

QUEENSLAND

by

D.J.Belford



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Samples from seismic shot-holes, water bores and outcrop were forwarded for examination by Dr. T.B.H. Jenkins, of Australian Oil and Gas Corporation Limited. The seismic shot holes were drilled by a Bureau of Mineral Resources geophysical party; samples were also received from the Bureau party, but those collected by Dr. Jenkins were used as they were taken at closer intervals.

Results of the examination made by Miss Crespin and the writer were disappointing, as foraminifera were found in very few samples.

SHOT HOLE SAMPLES

TRAVERSE A

Shot-point 2

40! - 50!

50' ·		60 '	Brownish siltstone. No microfossils found.
60°	-	70 ¹	Grey, slightly glauconitic silty sandstone. No
			microfossils found.
701		80 °	Grey glauconitic silty sandstone, with carbonaceous
			material. No microfossils found.

Reddish sandstone. No microfossils found.

Shot-point 4

40' - 50' Grey sandy siltstone. Very rare arenaceous foraminifera and fragments of ostracods.

?Spiroplectammina sp.
Indeterminate ostracod fragments.

50' - 60' Grey sandy silts tone. Ostracod fragment.

Shot-point 5

40' - 50' 50' - 60'	White sandstone. No microfossils found.
50' - 60'	Grey glauconitic silty sandstone. One broken
	indeterminate arenaceous foraminifera.
60' - 75'	Grey glauconitic silty sands tone with carbonaceous
	material. No microfossils found.

Shot-point 7

40' - 50' and 50' - 63'. Grey glauconitic silty sandstone, with carbonaceous material. No microfossils found.

Shot-point 8

50'										sils found.	
60'	_	70'	and	70'	- 801.	Grey	glaud	coniti	c silty	sands tone.	No
				mic	ofossi:	ls four	nd.		_		

80' - 90' Grey ilts tone. Very rare indeterminate fragments of arenaceous foraminifera and ostracods.

TRAVERSE AA

Shot-point 57

40' - 50' White to reddish sandstone. No microfossils found.

50' - 60' 60' - 75' Reddish silty sandstone. No microfossils found.

Reddish glauconitic sandstone. No microfossils found.

Shot-point 59

30' -40' Brownish silts tone and sands tone. No microfossils found.

40' - 50' and 50' - 60'. Grey sands tone. No microfossils found.

Shot-point 60

70' - 80' Mixture of reddish quartz sand and grey slightly glauconitic siltstone. No microfossils found.

80' - 90' Grey glauconitic silts tone with carbonaceous material. No microfossils found.

Shot-point 62

40 - 50 Grey sands tone. No microfossils found.

50' - 60' Brownish silts tone. No microfossils found.

60' - 75' Brownish silty sandstone. No microfossils found.

Shot-point 72

20' - 30' and 30' - 40'. Reddish quartz sand. No microfossils

found.

Reddish quartz sand and grey glauconitic silty sandstone. No microfossils found. 40' - 50'

50' - 60' Grey slightly glauconitic siltstone. No microfossils

found.

60' - 75' Grey silts tone. No microfossils found.

Shot-point 75

0' - 30' Grey and reddish glauconitic silty sandstone. No

microfossils found.

Grey sandy silts tone. Frequent arenaceous foram-30' - 40'

inifera.

Trochammina sp. Arenaceous indeterminate foraminifera.

40' - 50' Grey glauconitic silty sandstone. Rare arenaceous

foraminifera.

Haplophragmoides sp. Indeterminate arenaceous foraminifera.

50' - 60' Grey glauconitic silty sandstone. No microfossils

found.

60' - 75' Grey slightly glauconitic siltstone. No microfossils found.

Shot-point 77

45' - 50' Grey glauconitic silty sandstone. No microfossils

found.

50' - 60' Grey silts tone. Rare arenaceous foraminifera.

> Trochammina raggatti <u>Haplophragmoides</u> cf. <u>dickinsoni</u> Marginulina cf. suboretacea.

60' - 75' Grey siltstone. Rare foraminifera.

> Lenticulina sp. Indeterminate arenaceous foraminifera.

TRAVERSE B

Shot-point 9

O' - 10' Reddish glauconitic sandstone, heavily ironstained. No microfossils found.

40' - 60' Grey glauconitic silty sands tone. Frequent arenaceous foraminifera and rare Lagenidae.

Textularia anacooraensis
Trochamnina sp.
Arenaceous indeterminate
foraminifera
Lenticulina sp.

60' - 70' Grey siltstone. No microfossils found.

70' - 80' Grey silts tone and grey glauconitic silty sands tone.
No microfossils found.

Shot-point 10

30' - 40' and 40' - 50'. Grey and reddish glauconitic silty

sandstone. No microfossils found.

50' - 60' Grey glauconitic silty sandstone. No microfossils found.

60' - 70' Grey glauconitic silty sands tone with carbonaceous

material. No microfossils found.

70' - 80' Grey glauconitic silty sandstone. No microfossils found.

Shot-point 11

40' - 50' Reddish glauconitic silty sands tone. No microfossils found.

50' - 60' Grey glauconitic silty sands tone with carbonaceous material. No microfossils found.

60' - 70' Grey glauconitic silty sandstone. No microfossils found.

Shot-point 12

0' - 10' Reddish sandy silts tone. No microfossils found. 40' - 50' Grey glauconitic silty sands tone, rare pyrite, some

carbonaceous material. No microfossils found.

50' - 60' Grey glauconitic silty sandstone with carbonaceous

material. No microfossils found.

60' - 70' Grey glauconitic silty sands tone with carbonaceous material. No microfossils found.

70' - 84' Grey glauconitic silty sandstone. No microfossils found.

Shot-point 13

30' - 40' Grey glauconitic silty sandstone. No microfossils found.

40' - 50', 50' - 60' and 70' - 84'. Grey glauconitic silty sands tone, with carbonaceous material. No microfossils found.

Shot-point 14

20' - 30' Reddish glauconitic sandstone. No microfossils found.

30'-40', 40' - 50', 50' - 60' and 60' - 85'. Grey glauconitic silty sandstone, with carbonaceous material. No microfossils found.

Shot-point 15

- 10' 30' and 30' 40'. Reddish sandy siltstone. No microfossils found.
- 60' 70' Grey glauconitic silty sandstone. No microfossils found.
- 70' 84' Grey glauconitic silty sands tone, with carbonaceous material. No microfossils found.

Shot-point 16

0' - 30 Reddish glauconitic sandstone. No microfossils found.

30' - 40', 50' - 60', 60' - 70', 70' - 80', 80' - 90' and 90'-105'.

Grey glauconitic silty sands tone. No microfossils found.

Shov-point 17

50' - 85' Grey glauconitic silty sands tone. No microfossils found.

Shot-point 24

- 40' 50' Grey glauconitic silty sandstone. No microfossils found.
- 60' 70' Grey glauconitic silts tone. No microfossils found.

Shot-point 25

20' - 40' Reddish glauconitic sands tone. No microfossils found. 40' - 60' and 60' - 70'. Grey glauconitic silty sands tone. No microfossils found.

Shot-point 26

- 30' 40' Grey slightly glauconitic silty sands tone with carbonaceous material. No microfossils found.
- 50'-60' Grey glauconitic silty sandstone with very rare pyrite and some carbonaceous material. No microfossils found.
- 60' 70' Grey glauconitic silty sandstone. No microfossils found.
- 70' 84' Grey glauconitic silty sandstone. One arenaceous foraminifera.

?Trochammina sp.

Shot-point 27

- 0' 10' Reddish slightly glauconitic silty sands tone. No microfossils found.
- 20' 30', 30' 40', 40' 50', 50' 60', 60' 70' and 70' 84'.

 Grey glauconitic silty sands tone with carbonaceous material. No microfossils found.

Shot-point 28

- 10' 20' Reddish slightly glauconitic silty sandstone. No microfossils found.
- 20' 30' and 30' 40'. Grey glauconitic silty sandstone. No microfossils found.

- 40' 50' Grey glauconitic silty sands tone with very rare pyrite and some carbonaceous material. No microfossils found.
- 50' 60' Grey glauconitic silty sandstone with carbonaceous material. No microfossils found.
- 60' 70' Grey glauconitic silty sandstone with carbonaceous material. One ostracod.

? Eucythere sp.

70' - 84' Grey glauconitic silty sandstone with carbonaceous material. No microfossils found.

Shot-point 30

- 0' 10' Reddish sandstone. No microfossils found.
- 10' 20' Grey carbonaceous sandy siltstone, No microfossils found.
- 20' 30', 30' 40' and 40' 50'. Grey glauconitic sandstone.

 No microfossils found.
- 50' 60' Grey carbonaceous sandstone. No microfossils found.

Shot-point 31

- 20' 30' Yellowish silts tone. No microfossils found.
- 30' 40' and 40' 50'. Grey glauconitic sands tone, No microfossils found.
- 50' 60' Grey carbonaceous sandstone. No microfossils found.

Shot-point 32

- 10' 20' Reddish glauconitic sandstone. No microfossils found.
- 20' 30' Grey to reddish sandstone. No microfossils found.
- 30' 40' Reddish silty sands tone. No microfossils found.
- 40' 50' and 50' 60'. Grey carbonaceous silty sandstone. No microfossils found.
- 60' 70' Grey glauconitic silty sandstone. No microfossils found.

TRAVERSE BB

Shot-point 78

- 60' 70' Reddish siltstone. No microfossils found.
- 70' 80' Grey sandy silts tone. No microfossils found.
- 80' 95' Grey and reddish glauconitic silty sandstone. No microfossils found.

Shot-point 78A

80' - 95' Reddish silty sandstone. No microfossils found.

Shot-point 79

- 70' 80' Grey and reddish silty sandstone. No microfossils found.
- 80' 95' Reddish silty sandstone. No microfossils found.

Shot-point 96

- 50' 60' Grey glauconitic silty sands tone. No microfossils found.
- 60' 70' Grey glauconitic silty sands tone, with carbonaceous material. No microfossils found.
- 70' 80' Grey silts tone. No microfossils found.
- 80' 95' Grey glauconitic silty sands tone. No microfossils found.

TRAVERSE C

Shot-point 37

- O' 10' Reddish sands tone and whitish silts tone. No microfossils found.
- 10' 20' Whitish and reddish siltstone. No microfossils found.
- 20' 30'
- 30' 40' Reddish silty sandstone. No microfossils found.
- 40' 50' White to reddish silty sandstone. No microfossils found.
- 50' 60' White silty sandstone. No microfossils found.

Shot-point 39

60' - 70' Reddish silty sandstone. No microfossils found.

Shot-point 40

60' - 75' Reddish silty sands tone. No microfossils found.

Shot-point 41

- 40' 60' Reddish silty sands tone. No microfossils found.
- 60' 70' Grey silty sands tone with carbonaceous material.
 No microfossils found.

Shot-point 42

60' - 75' Grey silty sands tone with carbonaceous material.
No microfossils found.

TRAVERSE D

Shot-point 104

- 85' 95' White and reddish silty sandstone. No microfossils found.
- 95' 106' Reddish glauconitic silty sandstone. No microfossils found.

106' - 116' Grey glauconitic silty sandstone and reddish siltstone. No microfossils found.

116' - 127' Grey silts tone. No microfossils found.

127' - 138' Grey siltstone with ?siderite. No microfossils found.

Shot-point 127

60' - 70' Grey silty sands tone. No microfossils found. 70' - 80' Grey silts tone. Very rare ostracod fragments, no foraminifera found.

80' - 95' Grey silts tone. No microfossils found.

BORE SAMPLES

Canmaroo Bore

Mixed Sludge, Grey silts tone with carbonaceous material. Rare arenaceous foraminifera.

Hyperammina sp.
Arenaceous indeterminate foraminifera.

Waroon Bore

450' - 452' Grey silts tone with abundand ?haematite. No microfossils found.

452' - 455' Grey sandy silts tone with abundant ?haematite. No microfossils found.

455' - 460' Grey silts tone with some carbonaceous material. No microfossils found.

Yanco Bore

Mixed Sludge. Grey silts tone, grey glauconitic silty sands tone and reddish silicified sands tone. Very rare arenaceous for aminifera and Lagenidae.

Trochammina raggatti
Haplophragmoides cf. dickinsoni
Anomalina mawsoni
Lenticulina sp.

SURFACE SAMPLES

Cogoon

Dg. 1. Reddish glauconitic silty sandstone. No microfossils found.

Surat

Dd.	1	Reddish silty sandstone. I	No microfossils found.
Dd.	2	Reddish silty sands tone. I	No microfossils found.
Dd.	3	Brownish silty sands tone.	No microfossils found.
Dh.	11	Reddish silty sandstone. I	No microfossils found.

Weribone

Dg.	1	Brownish silty sandstone. No microfossils found.
Dg.	2	Reddish silty sandstone. No microfossils found.
Dg.	5	Reddish silty sandstone. No microfossils found.
Dh.	4	White silty sandstone. No microfossils found.

The few microfossils found in this investigation indicate a general Lower Cretaceous age; it is not possible to be more definite than this.