

LOWER CRETACEOUS MICROFOSSILS FROM L.S.D. No. 2 WELL.

SUSAN RIVER, NEAR MARYBOFOUGH, QUEENSLAND.

by

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Cuttings from the depth of 20 feet down to 5,200 feet in L.S.D. No. 2 Well, Susan River, were received from the Lucky Strike Drilling Company for micropalaeontological examination. From 20 feet down to the depth of 60 feet, the lithology was whitish siltstone. From 70 feet down to the last sample at 5,200 feet the sediments consisted almost entirely of dark grey to black siltstones. Lower Cretaceous foraminifera and ostracoda were recorded from several samples, the first occurrence being at the depth of 190 feet and the last at 4,890 feet. The tests were not as numerous or as well preserved as those found in L.S.D. No. 1 Cherwell Well reported upon on 28/6/55.

The microfossils together with the depths at which they were found are listed below.

<u>20 feet.</u>	Whitish siltstone with sphaeroidal bodies probably representing tests of the radiolarian <u>Cenosphaera</u>
<u>190 feet.</u>	Foraminifera: <u>Haplophragmoides dickinsoni</u> Crespin <u>Lenticulina</u> sp. <u>Marginalina</u> sp. Ostracoda: <u>Cytheropteron</u> cf. <u>concentricum</u> (Reuss)
<u>1690-1700 feet.</u>	Foraminifera: <u>Lenticulina australiensis</u> Crespin
<u>2445-2450 feet.</u>	Foraminifera: <u>Enantiodontalina</u> cf. <u>communis</u> (d'Orb)
<u>3790-3795 feet.</u>	Foraminifera: <u>Lenticulina australiensis</u> Crespin Ostracoda: Indeterminate
<u>4195-4200 feet.</u>	Foraminifera: cf. <u>Anomalina</u> <u>Lenticulina</u> spp.
<u>4295-4300 feet.</u>	Foraminifera: <u>Lenticulina</u> spp. Ostracoda: Indeterminate
<u>4595-4600 feet.</u>	Ostracoda: <u>Cytheropteron</u> cf. <u>concentricum</u> (Reuss)
<u>4695-4700 feet.</u>	Foraminifera: <u>Lenticulina</u> sp.
<u>4885-4890 feet.</u>	Ostracoda: cf. <u>Cytheropteron concentricum</u> (Reuss)

Thin sections were made of fragments of the white siltstone which was present in the bore from 20 feet down to 60 feet and probable radiolaria were noted in them. This rock is similar in lithology to that which overlies the fossiliferous Lower Cretaceous (Aptian) deposits in the Mt. Bassett section near Roma, Queensland and which is regarded as topmost Lower Cretaceous (Albian) in age.

The thickness of the beds from which foraminifera and ostracoda were recorded in this bore, is 4,700 feet. It must be realized, however, that the samples are represented by cuttings and this thickness may be exaggerated. But the uniformity of sedimentation from the depth of 70 feet down to the depth of 5,200 feet, the last sample received, suggests that there has been little contamination.