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Borelis melo curdica, *Meandropsina iranica*

, *Dendritina rangi*

Borelis melo group- Meandropsina iranica Assemblage Zone ()

(1)

A Study of Stratigraphic Distribution of Benthonic Foraminifera From Qom Formation in West Saveh

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Abstract

In this study, the sediments of Qom Formation was investigated in one stratigraphical section in west of Saveh (Kohlu Paein Section). The thickness of Qom Formation in Kohlu Paein Section measured 500 m. and it mainly consists of shale, marl, sandstone, sandy limestone and limestone. In this section, the sediments of Qom Formation disconformably lie between Lower Red Formation at the base, and Upper Red Formation at the top. The study of 102 samples taken from the studied section led to the identification of 26 genera and 29 species of benthonic foraminifera, 2 genera and 3 species of planktonic foraminifera, 2 genera and species of red algae and 2 genera and species of bryozoa. Among them, benthonic foraminifera has more variety and abundance. So, the benthonic foraminifera of the measured section were used to recognize the age of succession and justify their correlation. Based on the recognized foraminifera such as *Borealis melo curdica*, *Dendritina rangi*, *Peneroplis evolutus*, *Meandropsina iranica*, the Kohlu Paein section is comparable to biozonation introduced by Adams & Bourgeois (1967). It is analogous to *Borealis melo* group – *Meandropsina iranica* Assemblage Zone (1). According to distribution of the index foraminifera, the age of the sediments in Kohlu Paein section is Burdigalian.

Keywords: Qom Formation, West Saveh, Foraminifera

Stocklin, 1968 ; Stocklin and Setudehnia, 1972 ;
(Berberian and King, 1981 ;

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(Seyrafian and Toraby , 2005)

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(Seyrafian and Toraby , 2005)

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open lagoon near shore

marine

(S B 1)

(S B 2)

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(Murray, 1991)

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(Kennett & Srinivasan, 1983)

(Loeblich & Tappan, 1988)

() (Kalantari, 1992)

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:() (PLATE I PLATE II)

Ammonia beccarii ; *Amphistegina* sp. ; *Asterigerina* sp. ; *Bigennerina* sp. ; *Borelis melo curdica* ; *Cibicides* sp. ; *Dendritina rangi* ; *Discorbis* sp.; *Elphidium* spp.; *Elphidium* sp.1 ; *Glomospira* sp.; *Heterolepa* sp.; *Massilina* spp.; *Meandropsina iranica* ; *Miogypsina globulina* ; *Miogypsina* spp.; *Miolepidocyclina* sp.; *Operculina complanata* ; *Peneroplis evoultus* ; *Pyrgo* spp.; *Quinqueloculina* spp.; *Reussella* sp.; *Schlumbergerina* spp.; *Sphaerogypsina globulus* ; *Spiroloculina* spp.; *Textularia* spp.; *Triloculina tricarinata* ; *Triloculina trigonula* ; *Valvulina* spp.

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Globigerinoides)

Triloba , *Globigerina praebulloides*)

(*Lithophylum* sp. , *Lithothamnium* sp.)

(*Tubucellaria* sp. ,

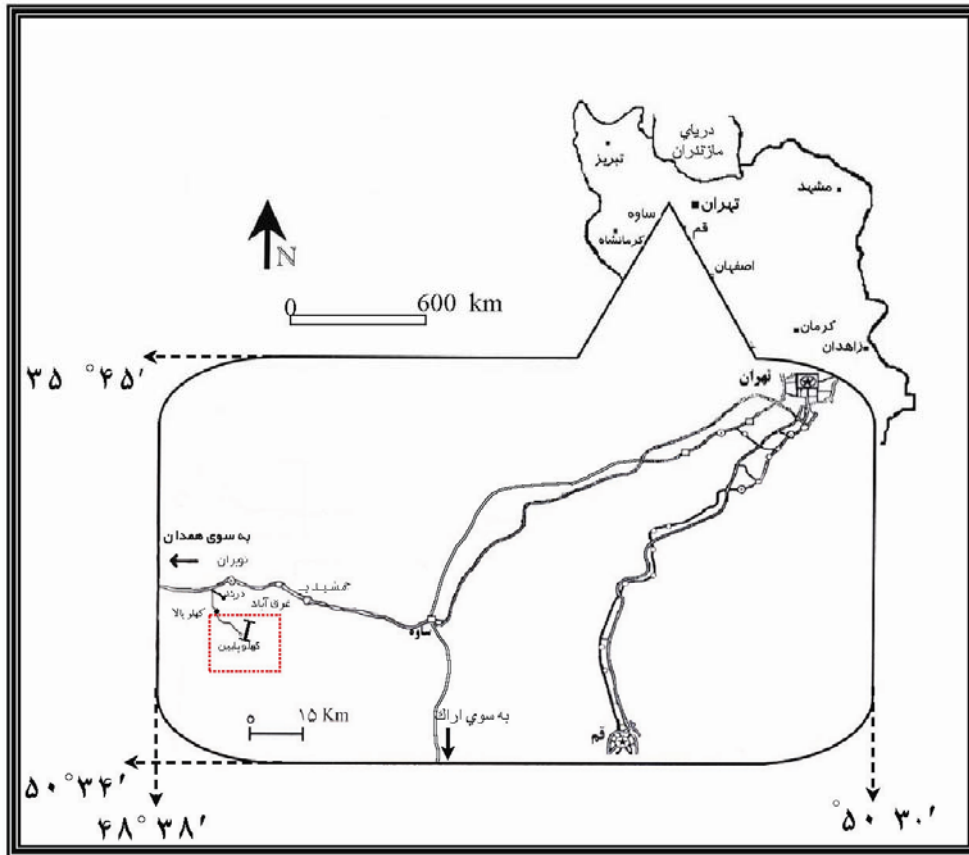
(Henson, 1950)

Onychocella spp.)

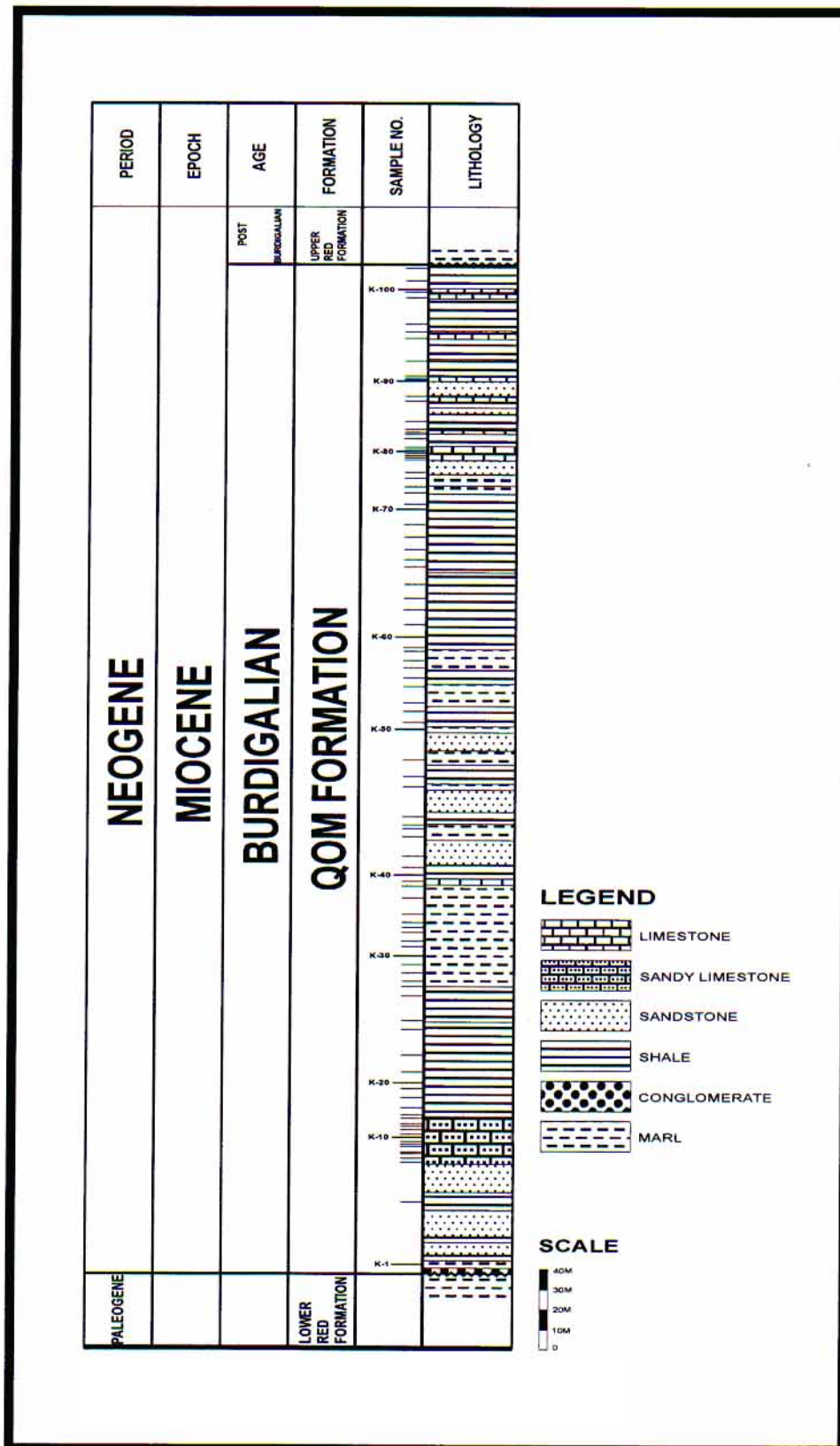
(Drooger & Socin, 1959)

(Rahaghi, 1973)

(Adams & Bourgeois, 1967)



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(Adams & Bourgeois,1967)

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Borelis melo curdica, *Dendritina rangi*,
Peneroplis evolutus, *Meandropsina iranica*,

(& Bourgeois, 1967)

Borelis melo curdica Adams

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Borelis melo group- Meandropsina ()

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iranica Assemblage Zone (1)

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Borelis melo curdica

(Adams & Bourgeois,

1967)

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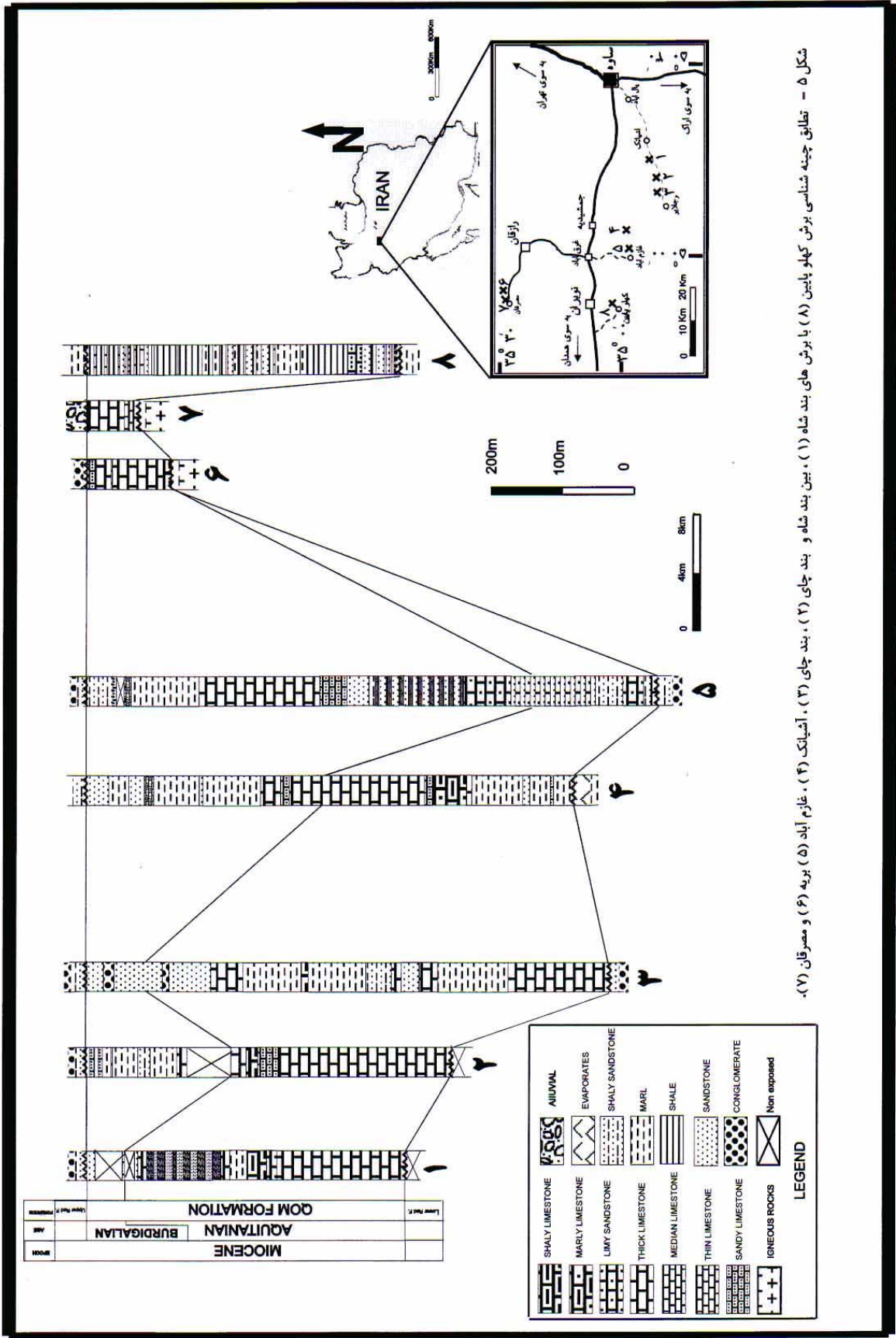
Operculina

(covered)

complanata

(Adams & Bourgeois,

Operculina complanata 1967)



شکل ۵ - تطابق چینه شناسی برش کپلو پایین (۸) با برش های بند شاه (۱) ، بین بند شاه و بند چای (۲) ، بند چای (۳) ، آشیانک (۴) ، غارم آباد (۵) برید (۶) و مصرفان (۷).

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k-100 k-76 k-15 k-3

K-11, K-12

K-88, K-99

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(Murray, 1991)

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. lagoon/inner shelf

k-58 k-27

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lagoon/inner shelf

lagoon/inner shelf

Quinqueloculina spp.; *Spiroloculina* spp.;

Schlumbergerina spp.; *Elphidium* spp.; *Dendritina rangi* ; *Borelis melo curdica*

. (PLATE II) ()

(Murray,1991)

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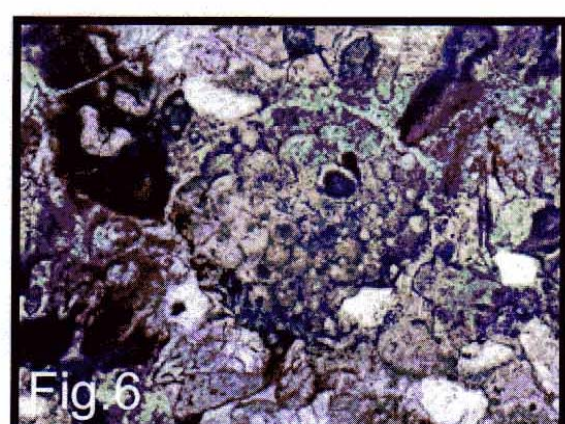
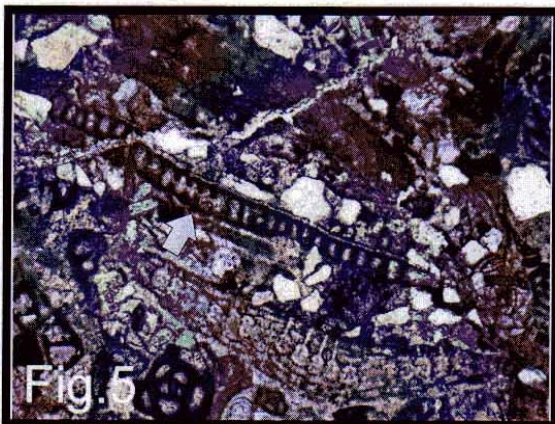
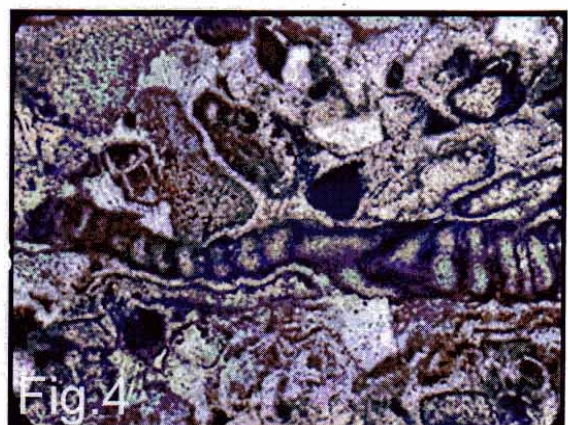
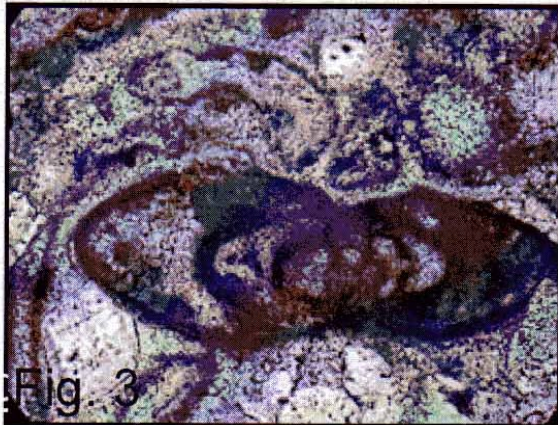
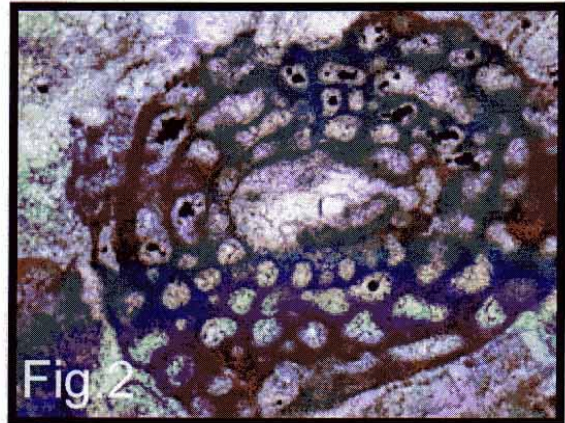
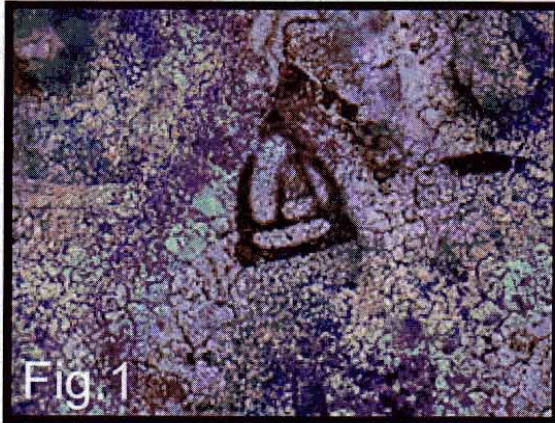
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(Murray, 1991)

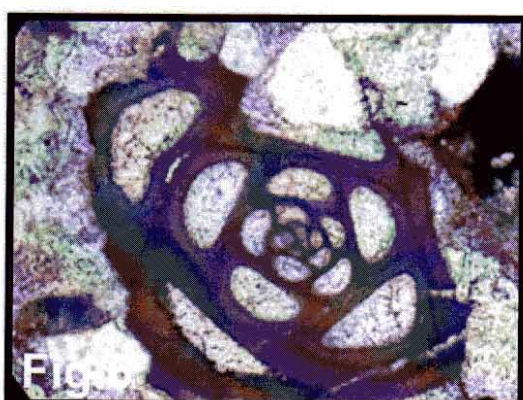
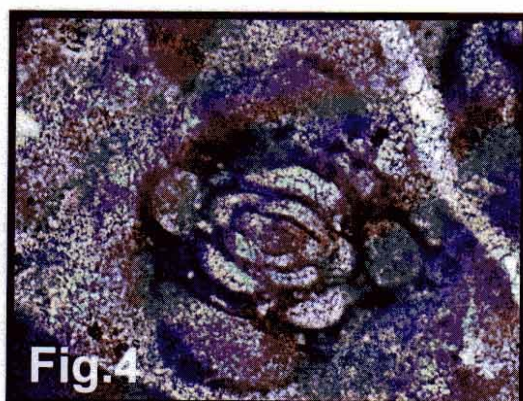
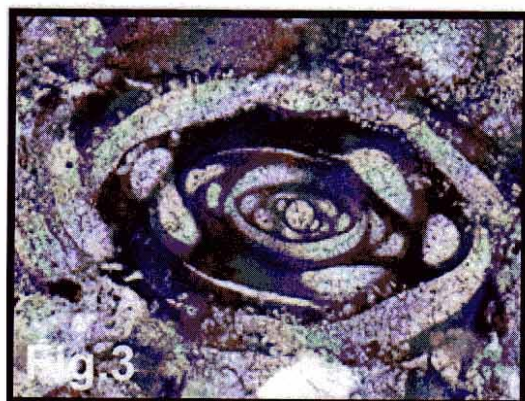
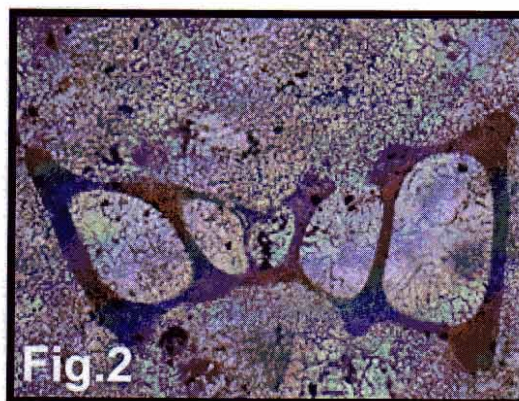
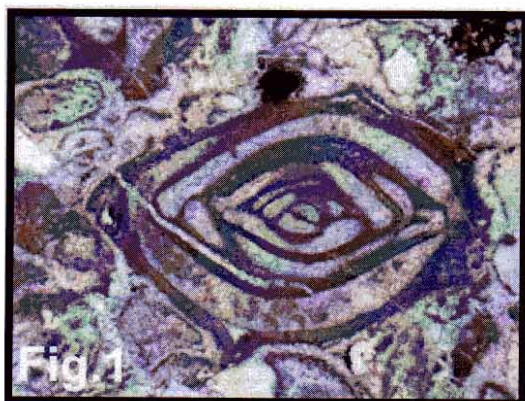
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PLATE I



- Fig.1**, *Triloculina trigonula* , sample no. k-95 , X105,
Fig.2, *Borelis melo curdica* , sample no. k-7 , X105,
Fig.3, *Dendritina rangi* , sample no. k- 39 , X105,
Fig.4, *Peneroplis evolutus* , sample no. k-9 , X52.5,
Fig.5, *Meandropsina iranica* , sample no. k-12 , X26.5,
Fig.6, *Miogypsina globulina* , sample no. k-12 , X52.5.

PLATE II



Figs.1,2 : *Spiroloculina* spp.

Fig.1, sample no. K-8, X52.5;

Fig. 2, sample no. K-93, X105;

Figs.3,4 : *Schlumbergerina* spp.,

Fig.3, sample no. K-98, X105;

Fig. 4, sample no. K-7, X52.5;

Figs.5,6 : *Quinqueloculina* spp.,

Fig.5, sample no. K-92, X52.5;

Fig. 6, sample no. K-3, X105;

Borelis melo curdica

(Adams &

Operculina complanata Bourgeois, 1967)

Adams & Bourgeois)

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(, 1967

Borelis melo group – *Meandropsina iranica*
Assemblage Zone (1)

lagoon/inner shelf

lagoon/inner shelf

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