

CRETACEOUS OSTRACODA OF THE
SUPER FAMILY CYTHERACEA FROM IRAQ,
THEIR BIOSTRATIGRAPHY AND
CORRELATION WITH ADJACENT REGIONS

By

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PLATES

EXPLANATION OF PLATE - 1

Bythoceratina avnonensis Rosenfeld, 1974.

Fig. 1- Carapace, left valve, external, lateral view, (J.T.1), stereoscopic paired photographs; South Rumaila Well-104, drilling depth 2658 m; X106.

Fig. 2- Carapace, left valve, external, lateral view, (J.T.4), stereoscopic paired photographs; Ghalaisan Well-1, drilling depth 4195 ft; X91.

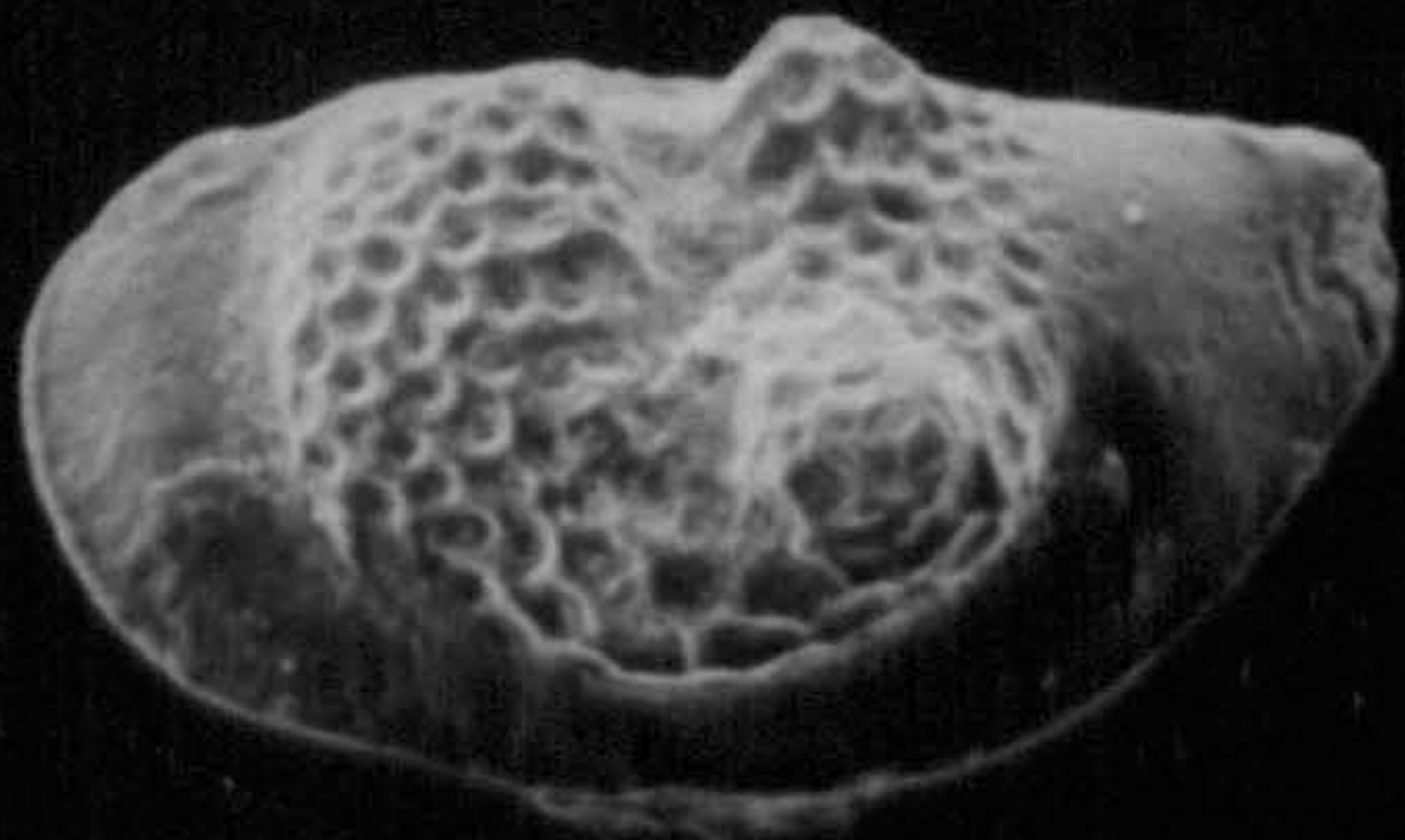
Fig. 3- Carapace, right valve, external, lateral view, (J.T.2), stereoscopic paired photographs; South Rumaila Well-104, drilling depth 2656 m; X102.

Fig. 4- Carapace, right valve, external, lateral view, (J.T.4), stereoscopic paired photographs; Ghalaisan Well-1, drilling depth 4195 ft; X91.

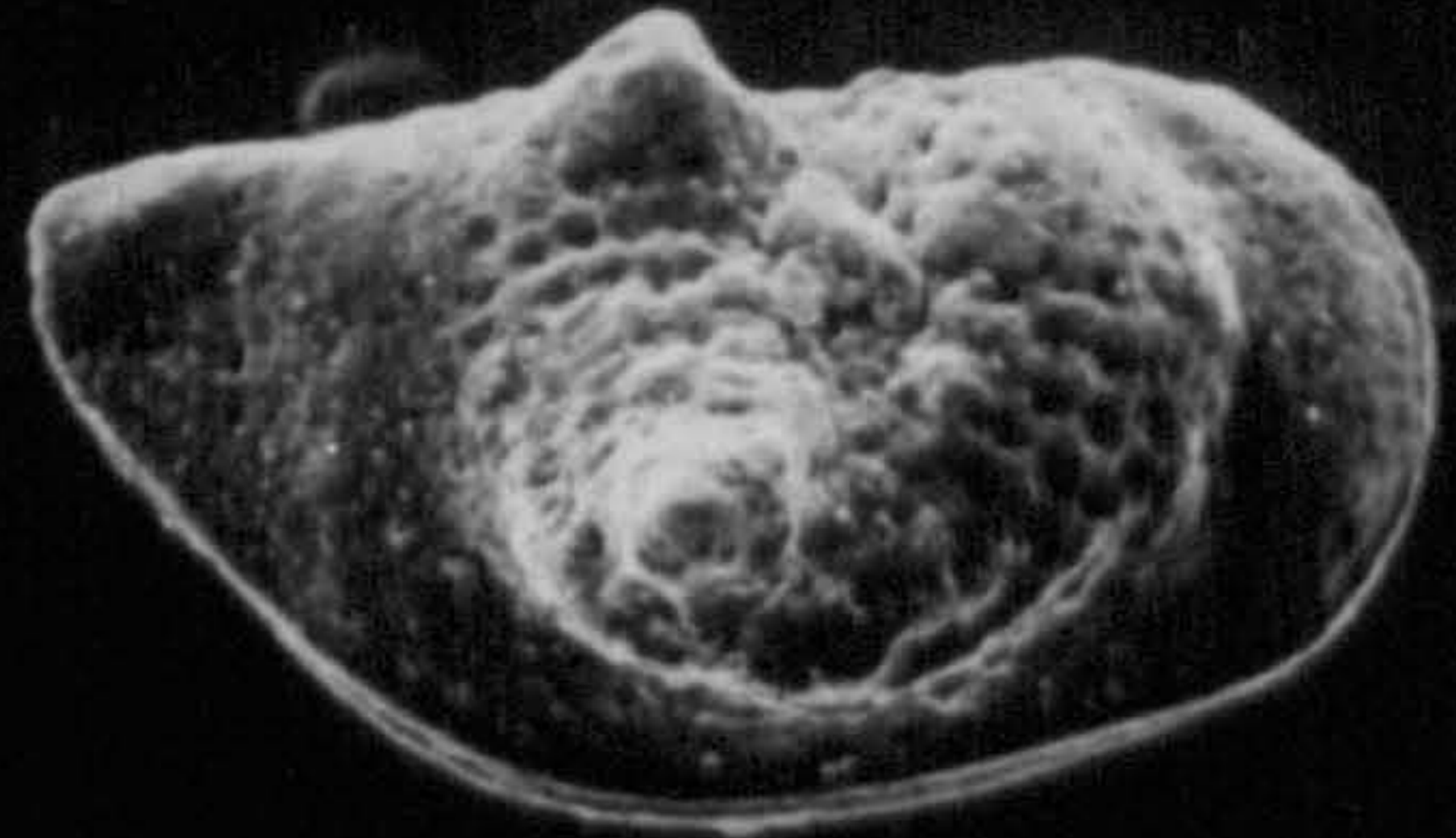
Fig. 5- Carapace, external, ventral view, (J.T.1); South Rumaila Well-104, drilling depth 2658 m; X93.

Fig. 6- Carapace, external, dorsal view, (J.T.2); South Rumaila Well-104, drilling depth 2656 m; X92.

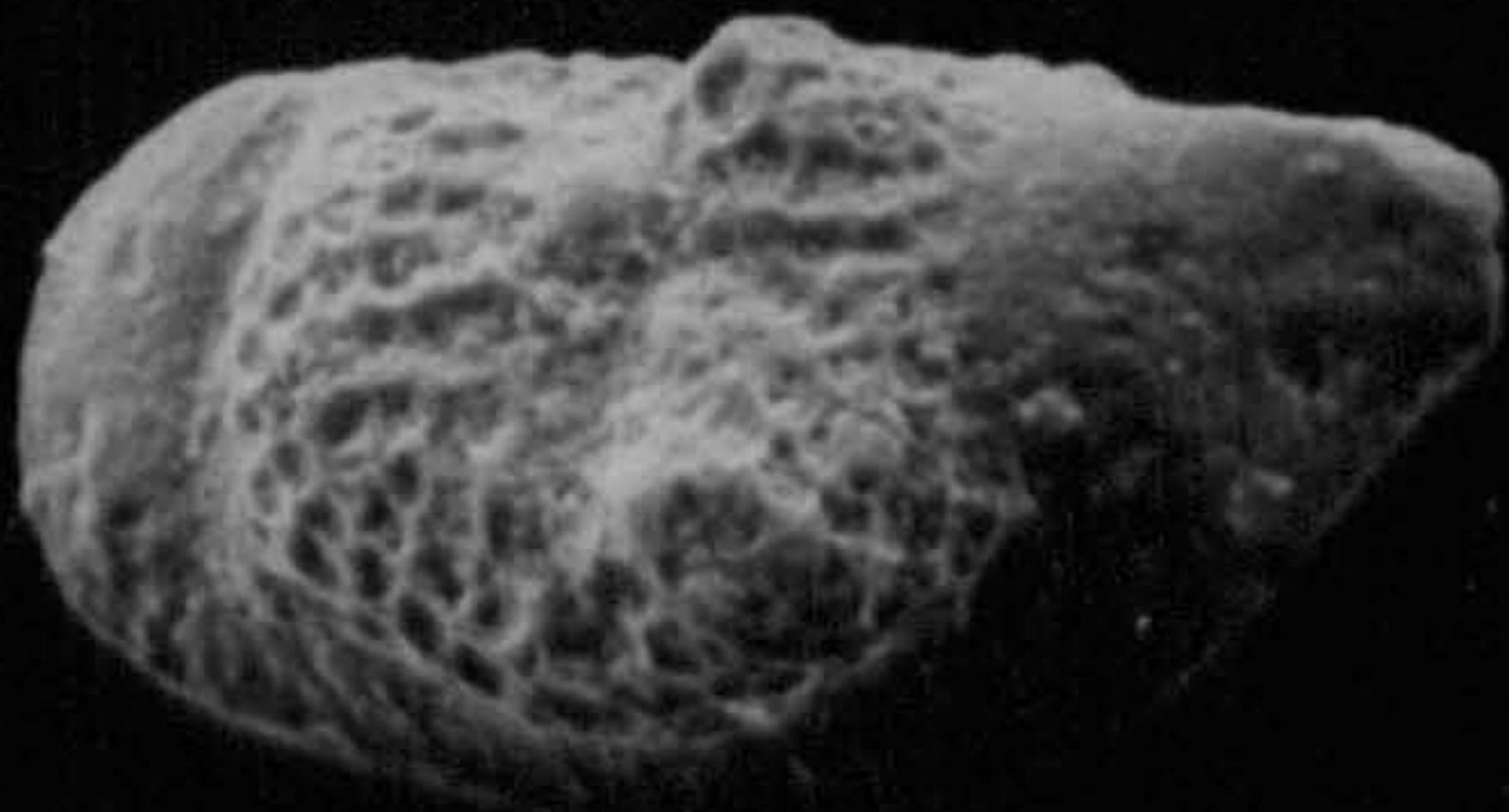
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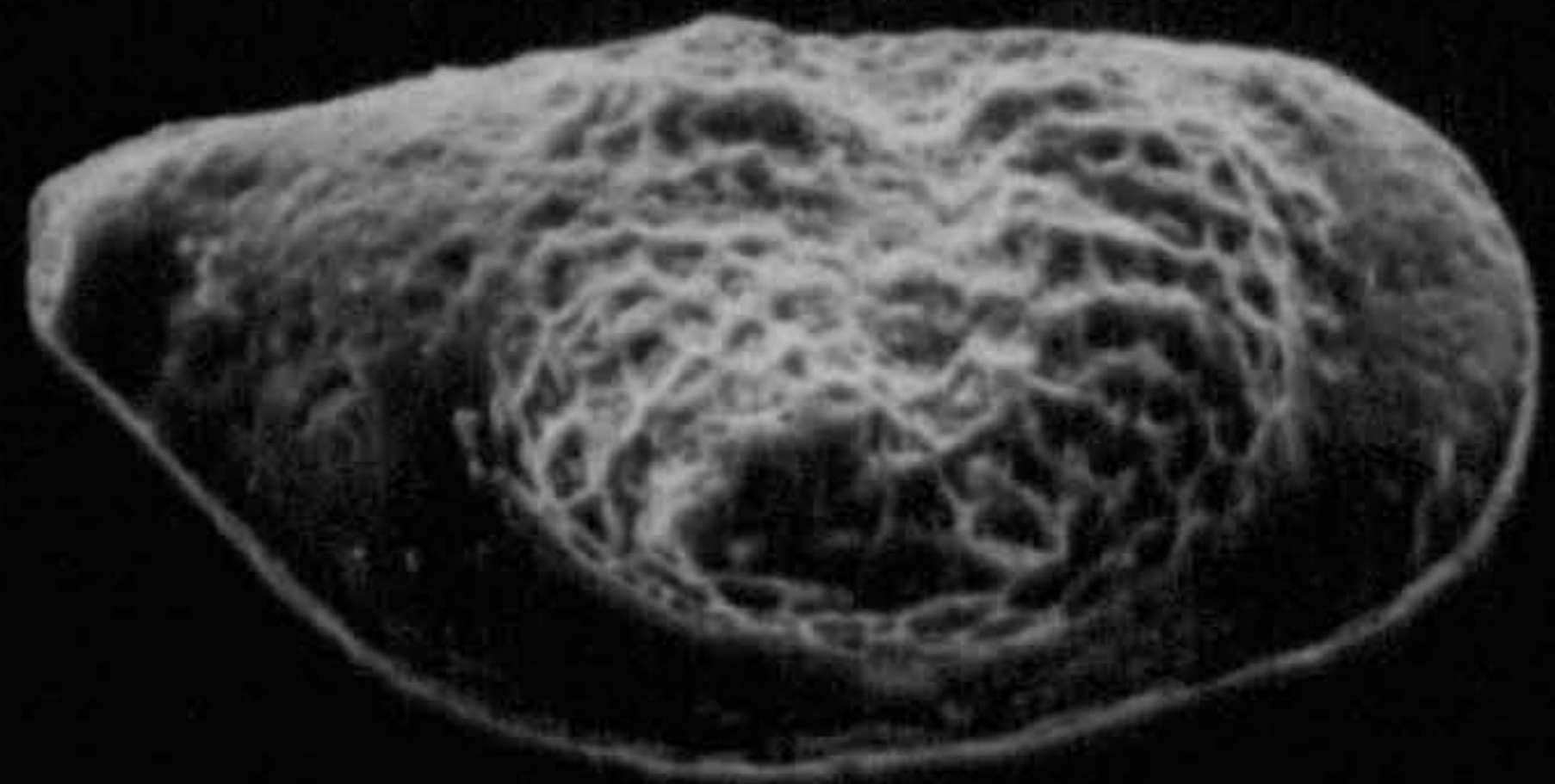
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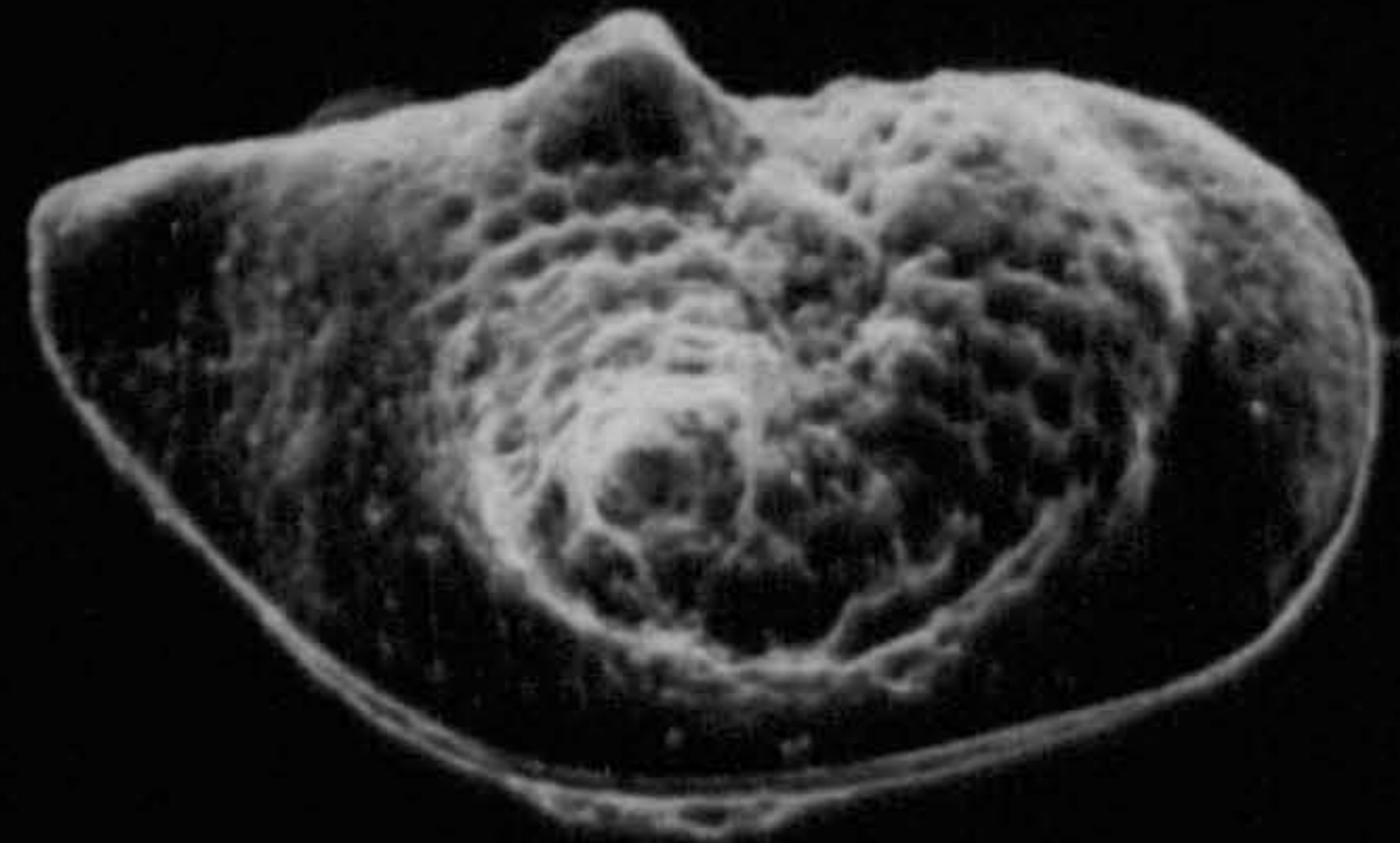
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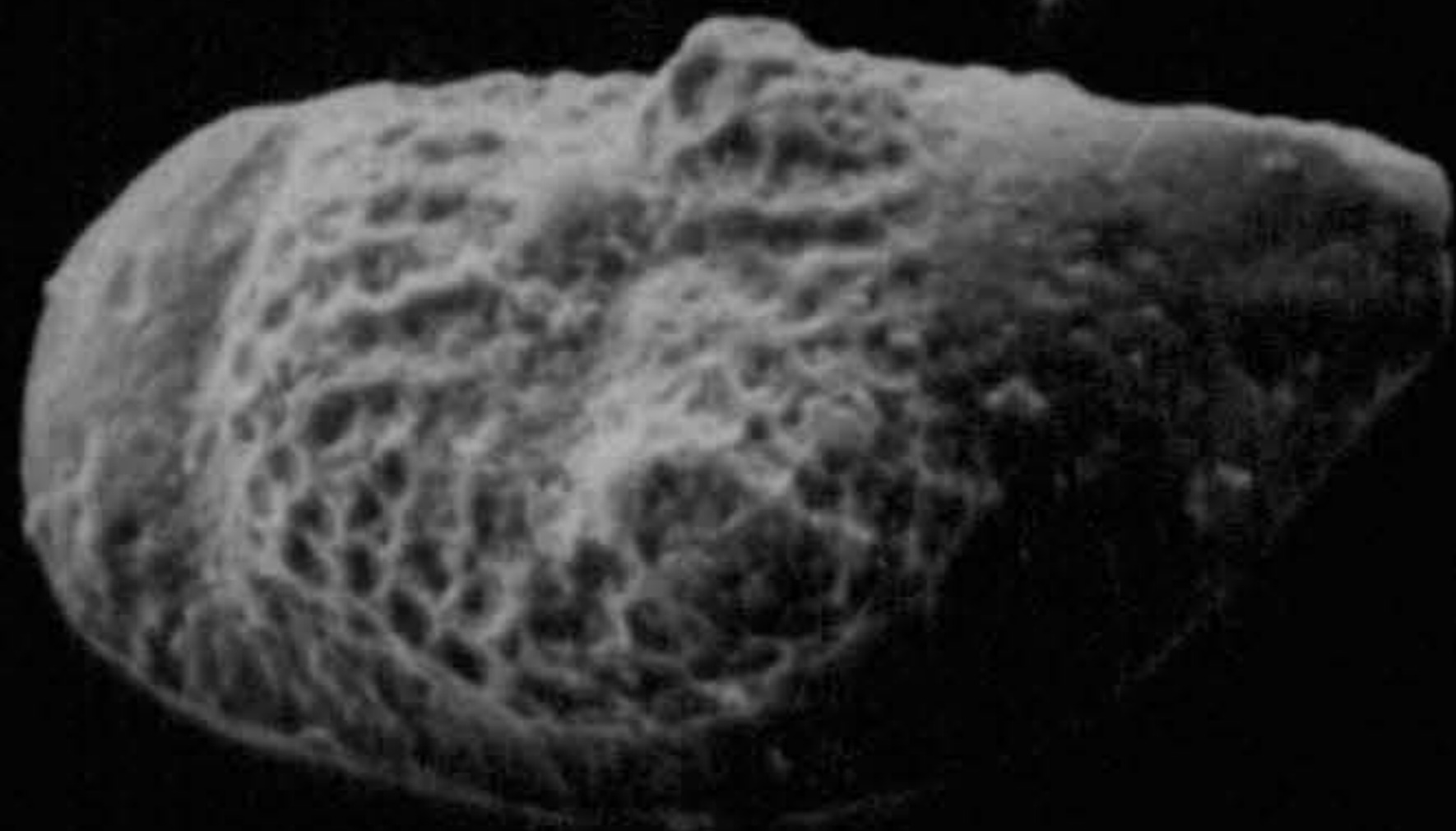
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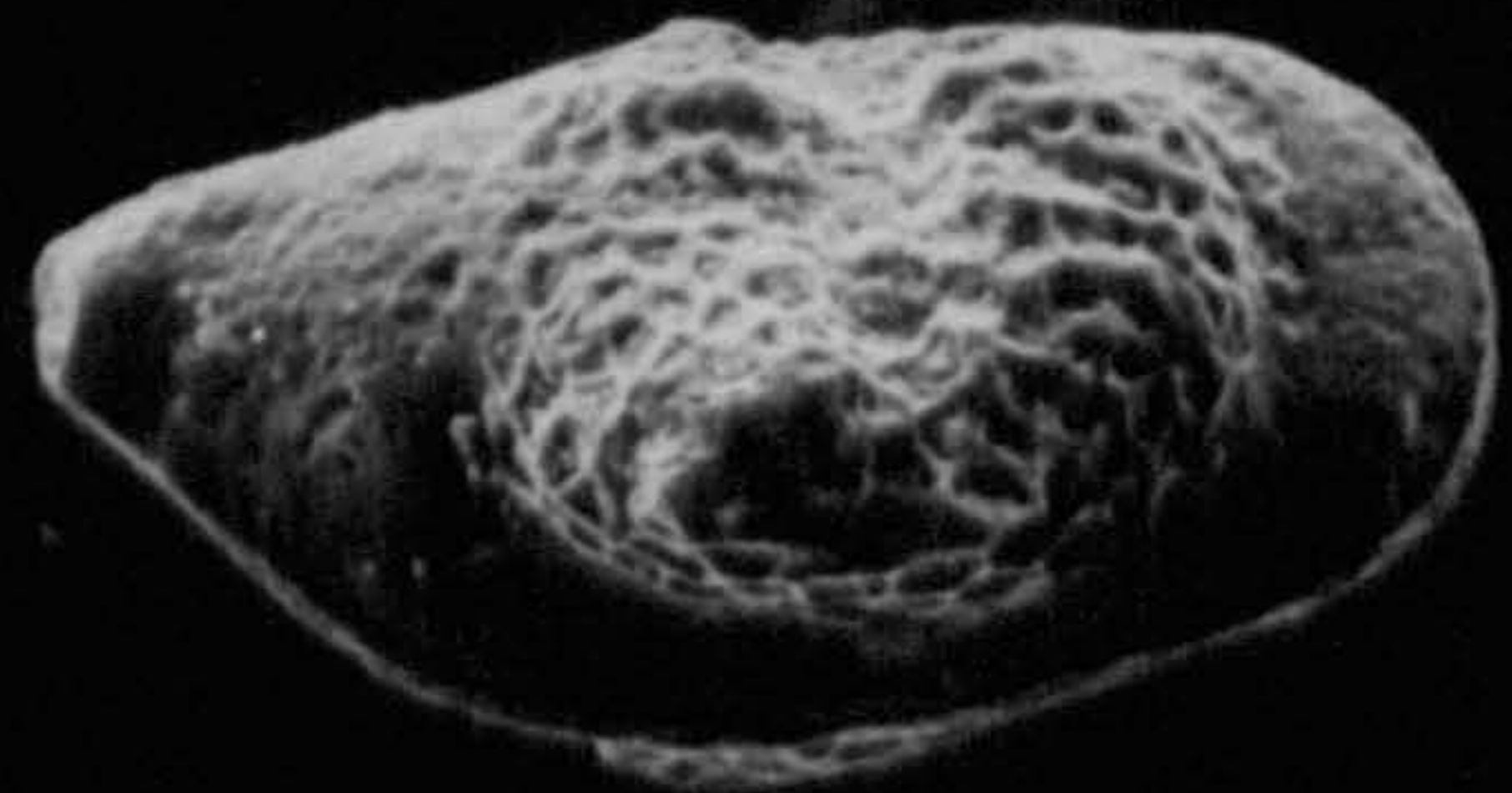
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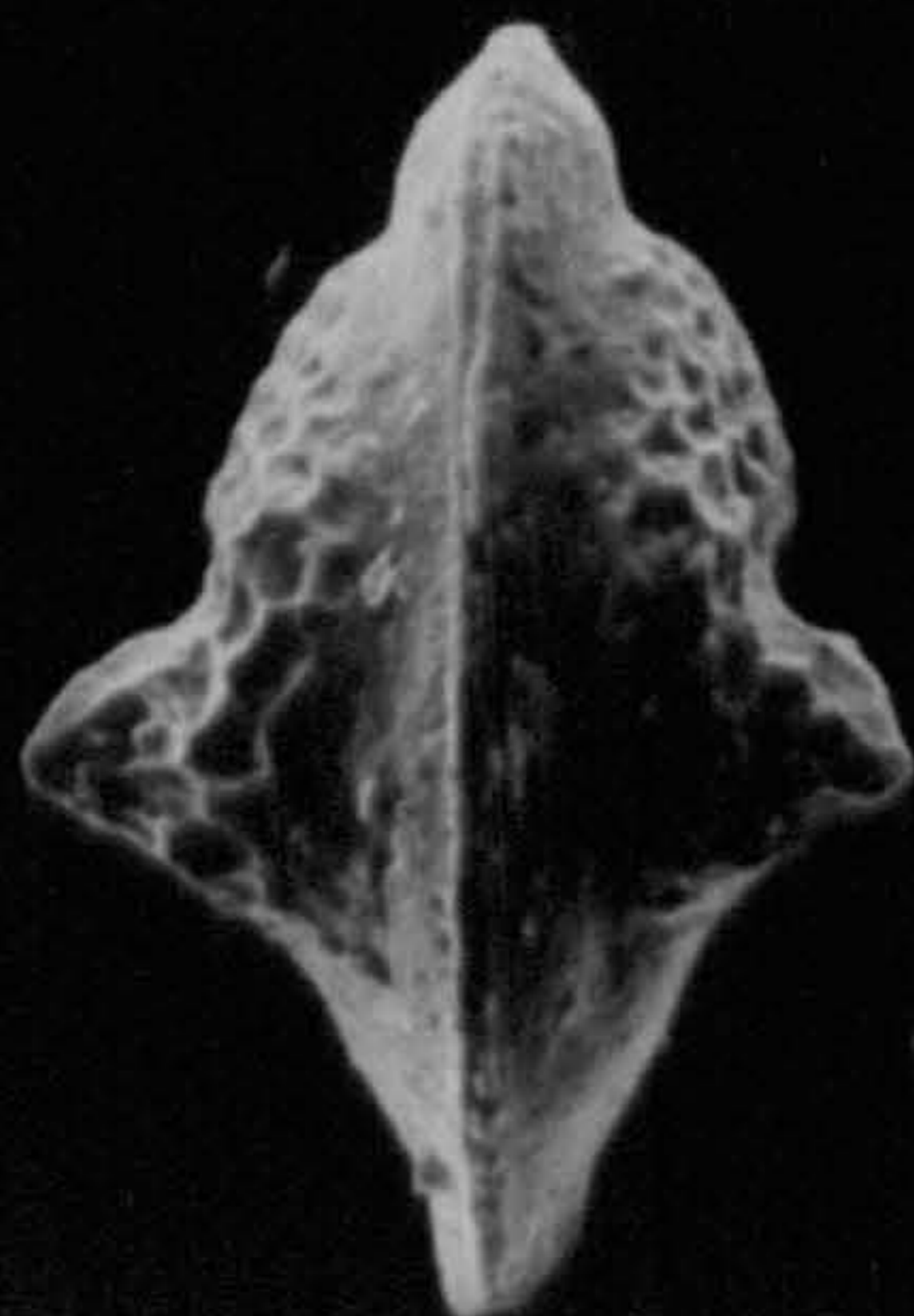
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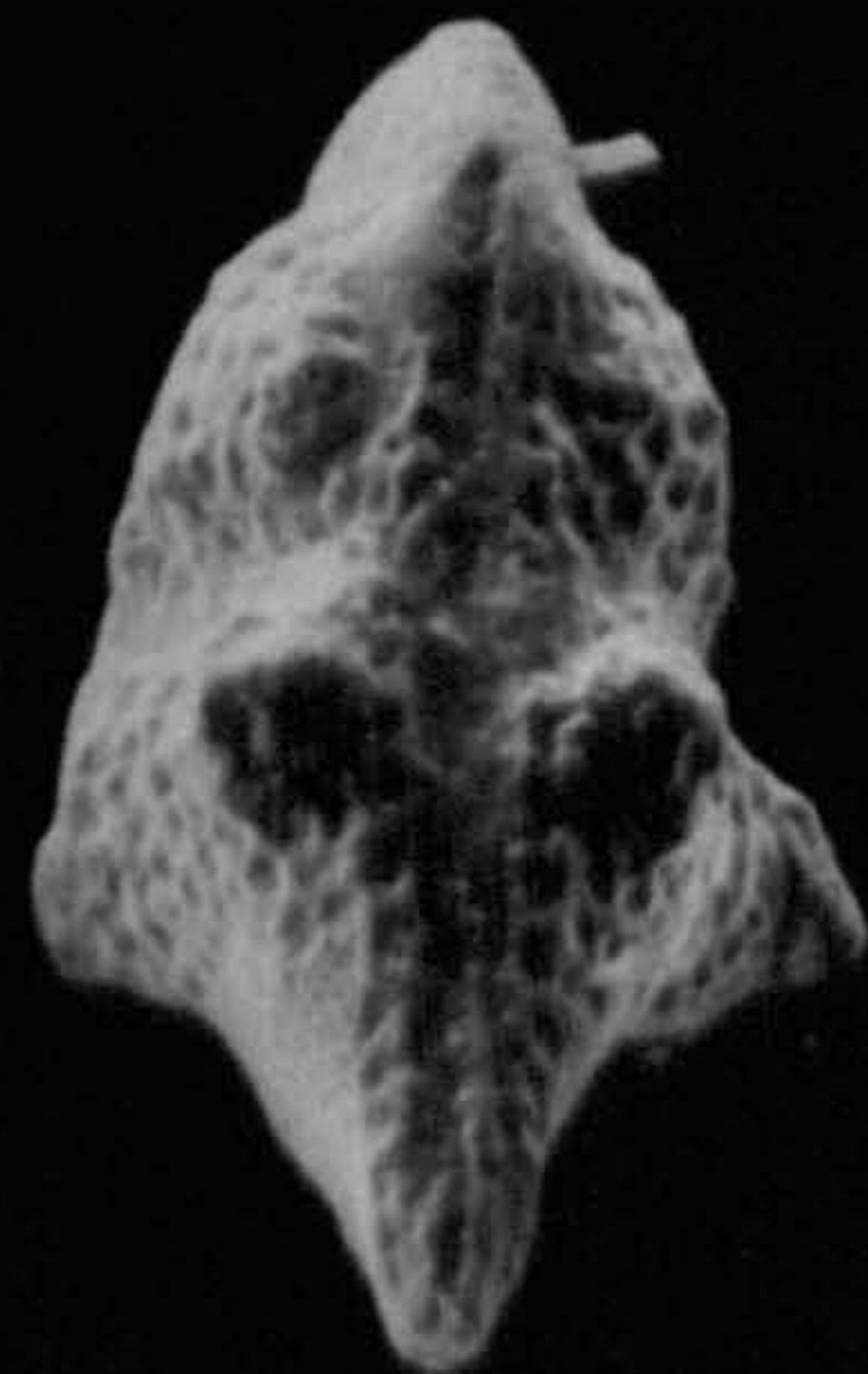
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6

EXPLANATION OF PLATE - 2

Isohabrocythere ? aldinawarii sp. nov.

All specimens from Ghalaisan Well-1.

Fig. 1- Male carapace, left valve, external, lateral view, (holotype J.T. 5), stereoscopic paired photographs; drilling depth 3720 ft; X100.

Fig. 2- Male right valve, external, lateral view, (paratype J.T.8), stereoscopic paired photographs; drilling depth 3835 ft; X94.

Fig. 3- Female carapace, right valve, external, lateral view, (paratype J.T. 6), stereoscopic paired photographs; drilling depth 3740 ft; X113.

Fig. 4- Male right valve, internal, lateral view (paratype J.T. 8), stereoscopic paired photographs; drilling depth 3835 ft; X96.

Fig. 5- Male carapace, external, dorsal view, (holotype J.T. 5); drilling depth 3720 ft; X95.

Fig. 6- Male right valve, internal, enlargement of the hinge structure, (paratype J.T.8); drilling depth 3835 ft; X115.

Fig. 7- Male right valve, internal, hinged details, (paratype J.T.8), drilling depth 3835 ft; X113.

Fig. 8- Female carapace, right valve, external, lateral view, (paratype J.T. 7); drilling depth 3720 ft; X114.

PLATE-2



EXPLANATION OF PLATE - 3

Kuwaitella turgida Al-Abdul-Razzaq, M.S., 1977.

All specimens from South Rumaila Well-104.

Fig. 1- Female carapace, left valve, external, lateral view, (J.T. 10), stereoscopic paired photographs; drilling depth 2700 m; X91.

Fig. 2- Female carapace, right valve, external, lateral view; (J.T. 9), stereoscopic paired photographs; drilling depth 2700 m; X93.

Fig. 3- Male carapace, right valve, external, lateral view, (J.T. 13), stereoscopic paired photographs; drilling depth 2704 m; X78.

Fig. 4- Male carapace, left valve, external, lateral view, (J.T. 13), stereoscopic paired photographs; drilling depth 2704 m; X77.

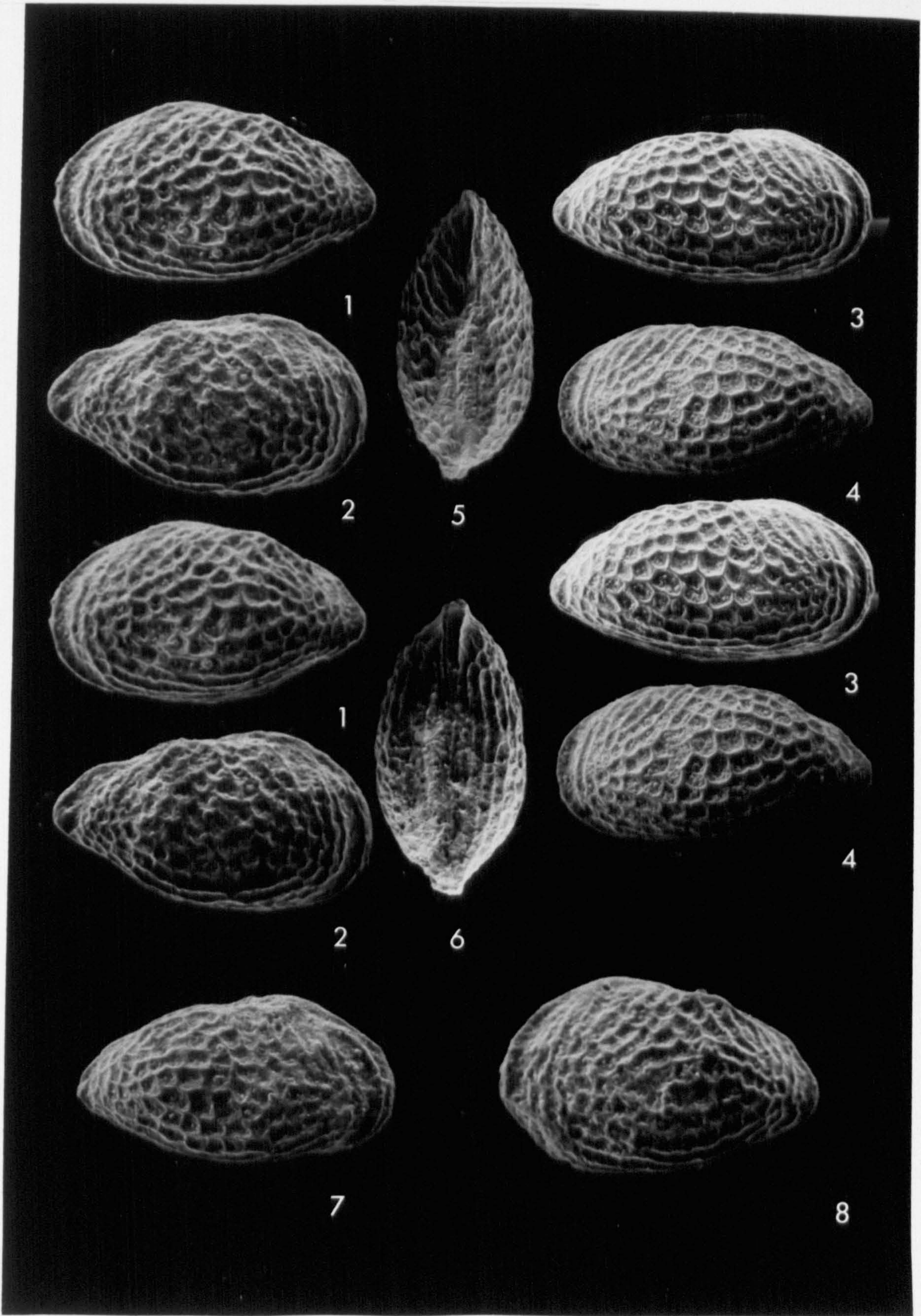
Fig. 5- Male carapace, external, dorsal view, (J.T. 12); drilling depth 2688 m; X77.

Fig. 6- Female carapace, external, ventral view, (J.T. 10); drilling depth 2700 m; X83.

Fig. 7- Male carapace, right valve, external, lateral view, (J.T. 12); drilling depth 2688 m; X86.

Fig. 8- Female carapace, left valve, external, lateral view, (J.T. 11); drilling depth 2708 m; X96.

PLATE-3



EXPLANATION OF PLATE - 4

Ovocytheridea baghdadia sp.nov.

All specimens from East Baghdad Well-3.

Fig. 1- female left valve, external, lateral view, (holotype J.T. 18), stereoscopic paired photographs; drilling depth 2300 m, X71.

Fig. 2- Male left valve, external, lateral view, (paratype J.T. 15), stereoscopic paired photographs; drilling depth 2326 m; X55.

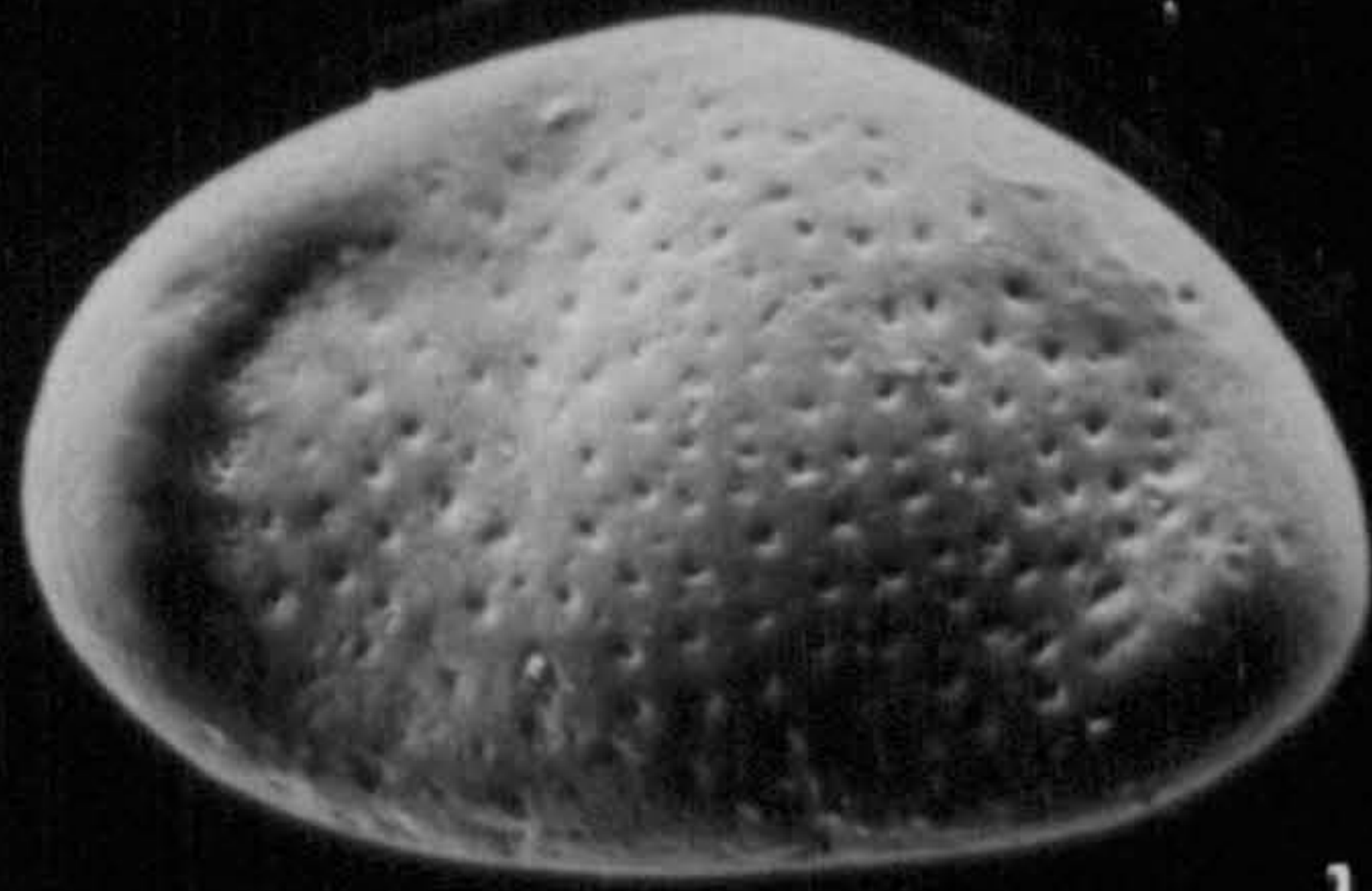
Fig. 3- Female right valve, internal, lateral view, (paratype J.T. 25); stereoscopic paired photographs; drilling depth 2448 m; X74.

Fig. 4- Female left valve, internal, lateral view, (paratype J.T. 16), stereoscopic paired photographs; drilling depth 2668 m; X72.

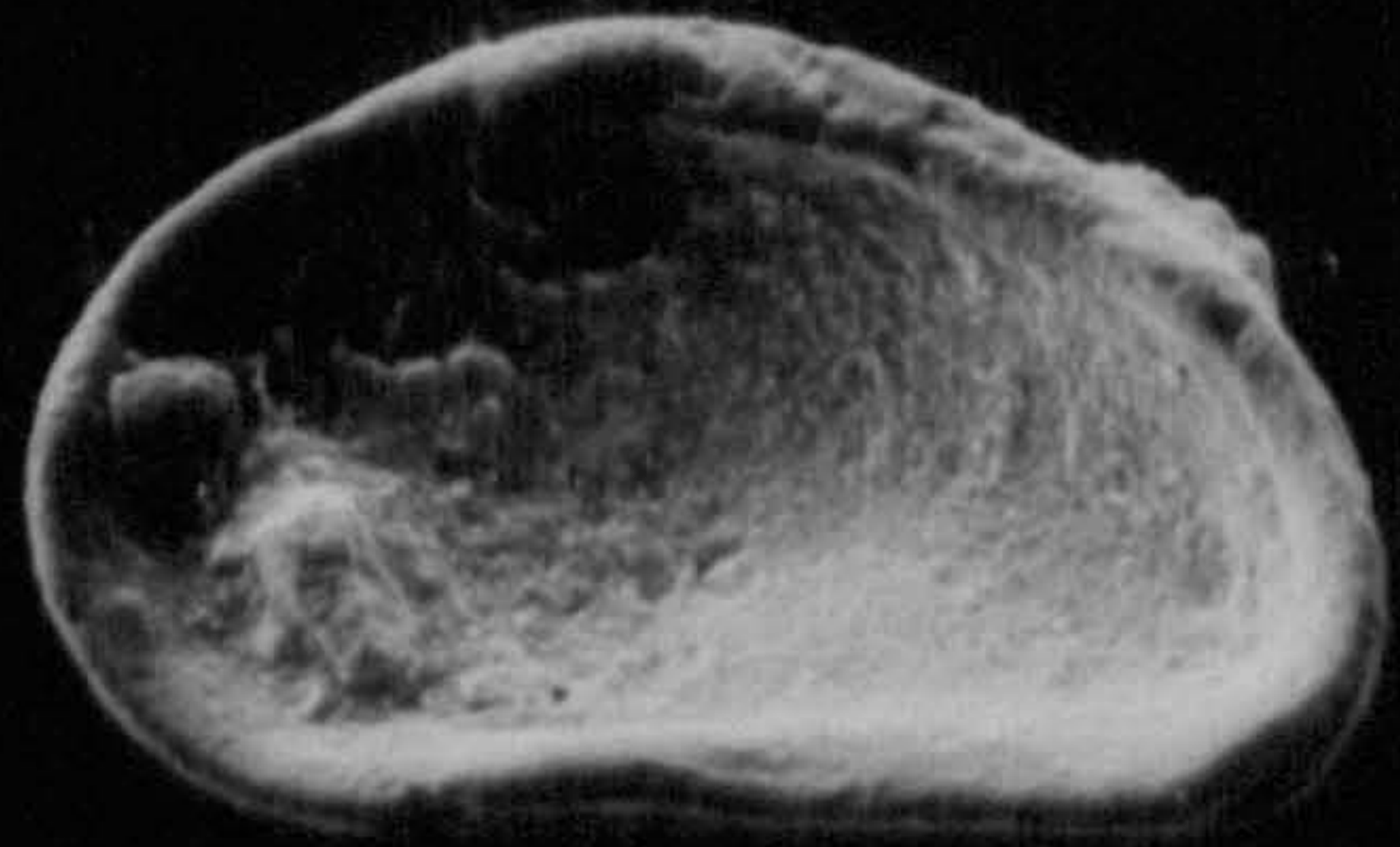
Fig. 5- Female left valve, internal, lateral view, (paratype J.T. 19); drilling depth 2300 m; X72.

Fig. 6- Female right valve, external, lateral view, (paratype J.T. 25); drilling depth 2448 m; X75.

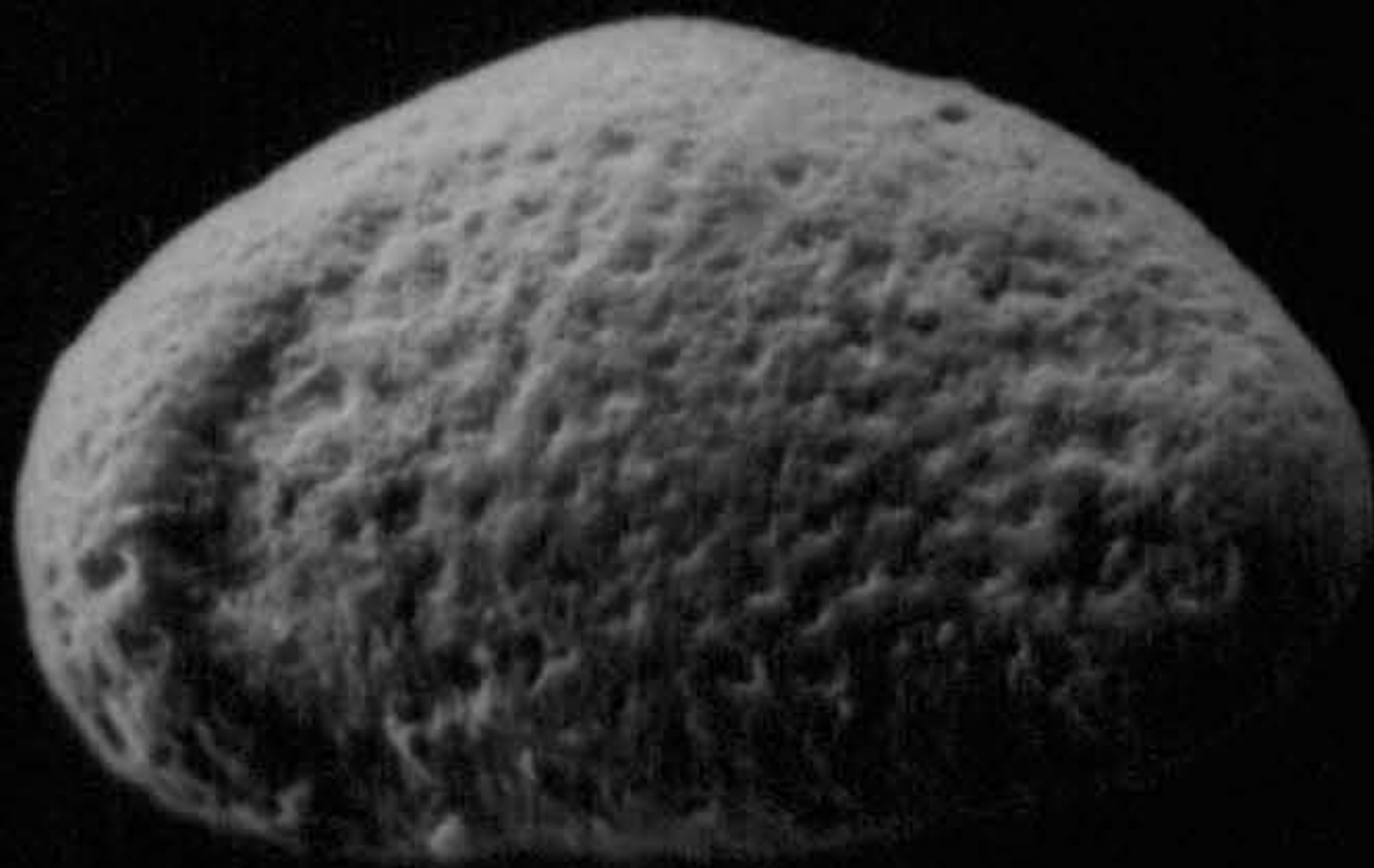
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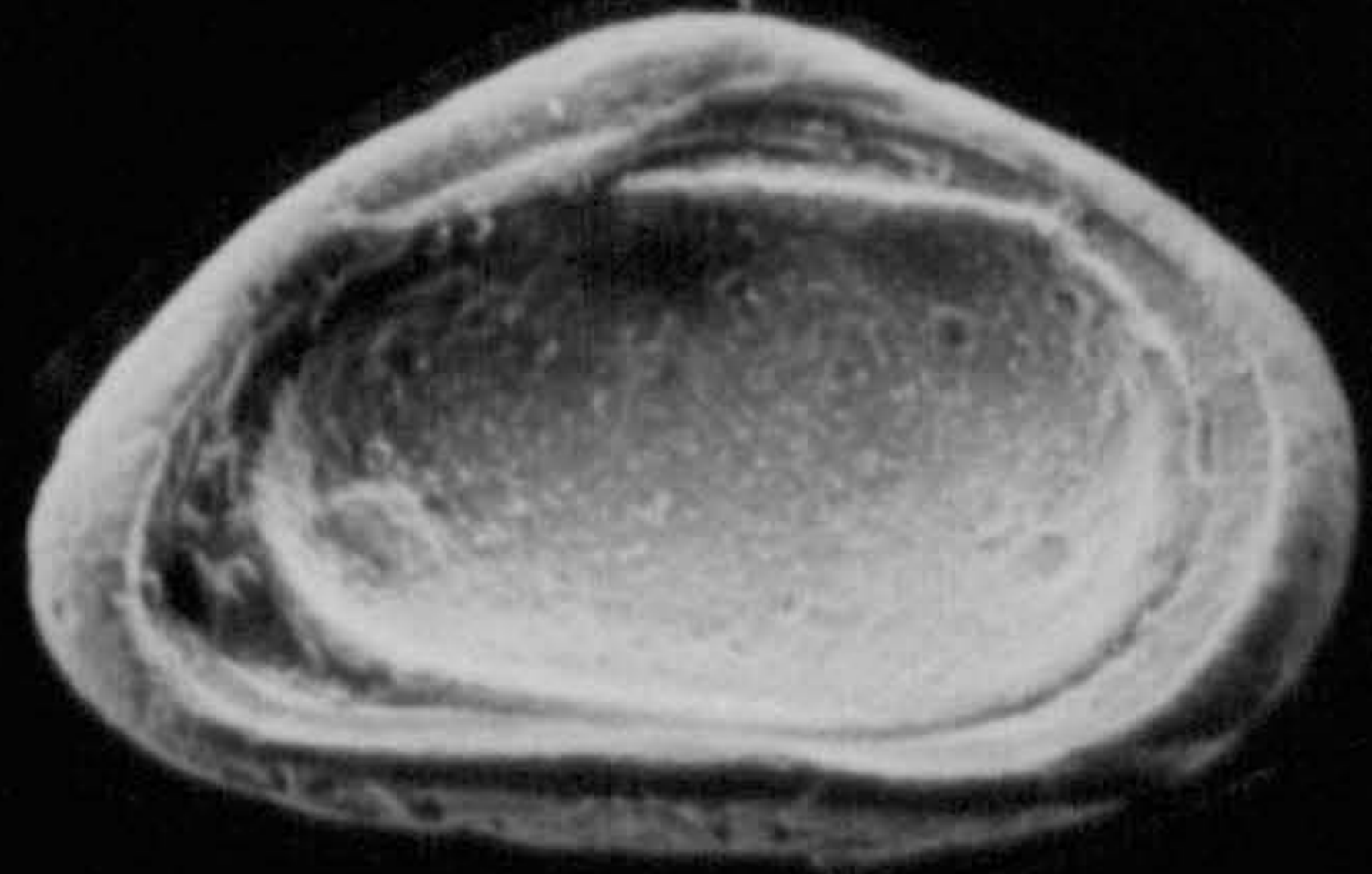
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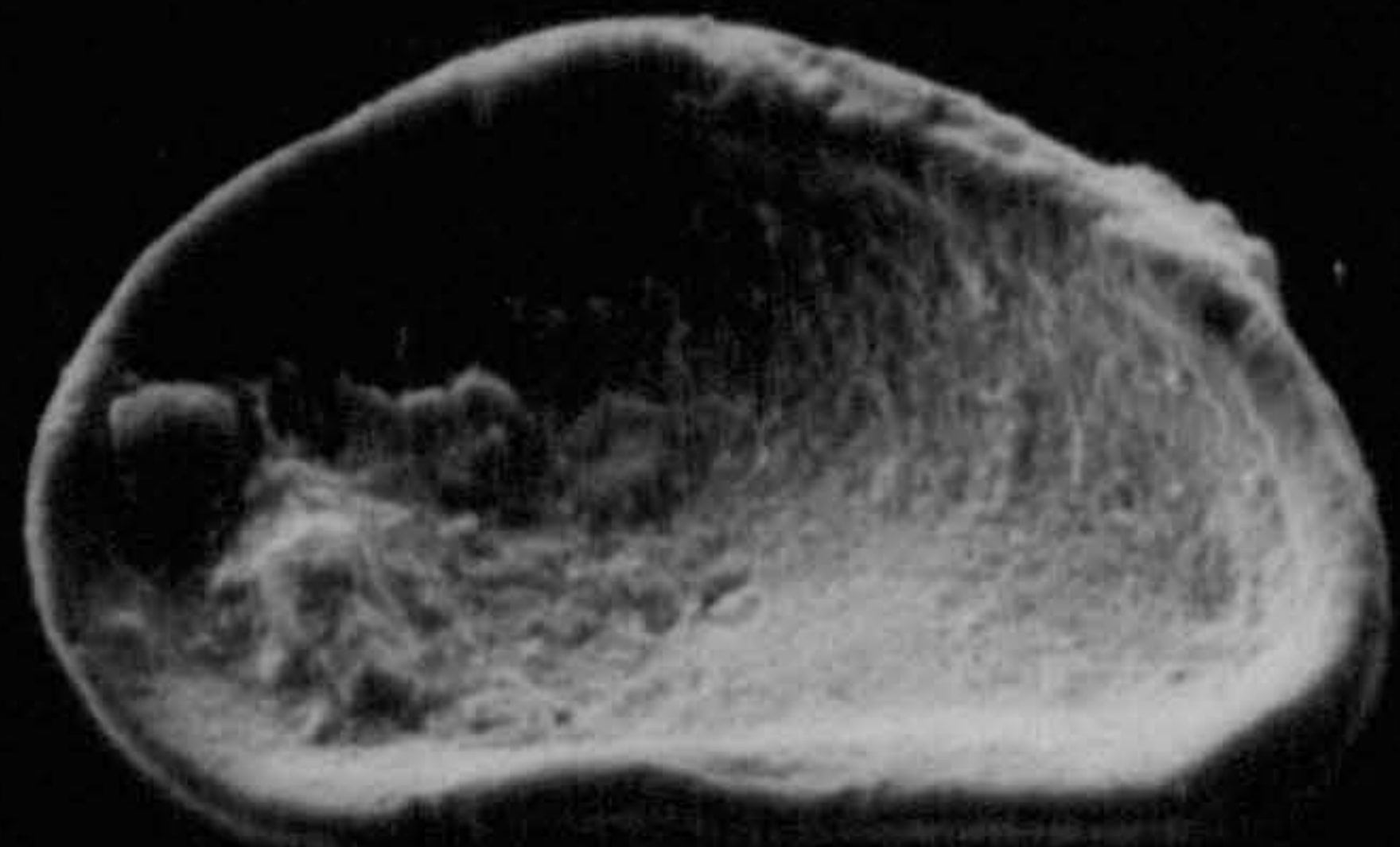
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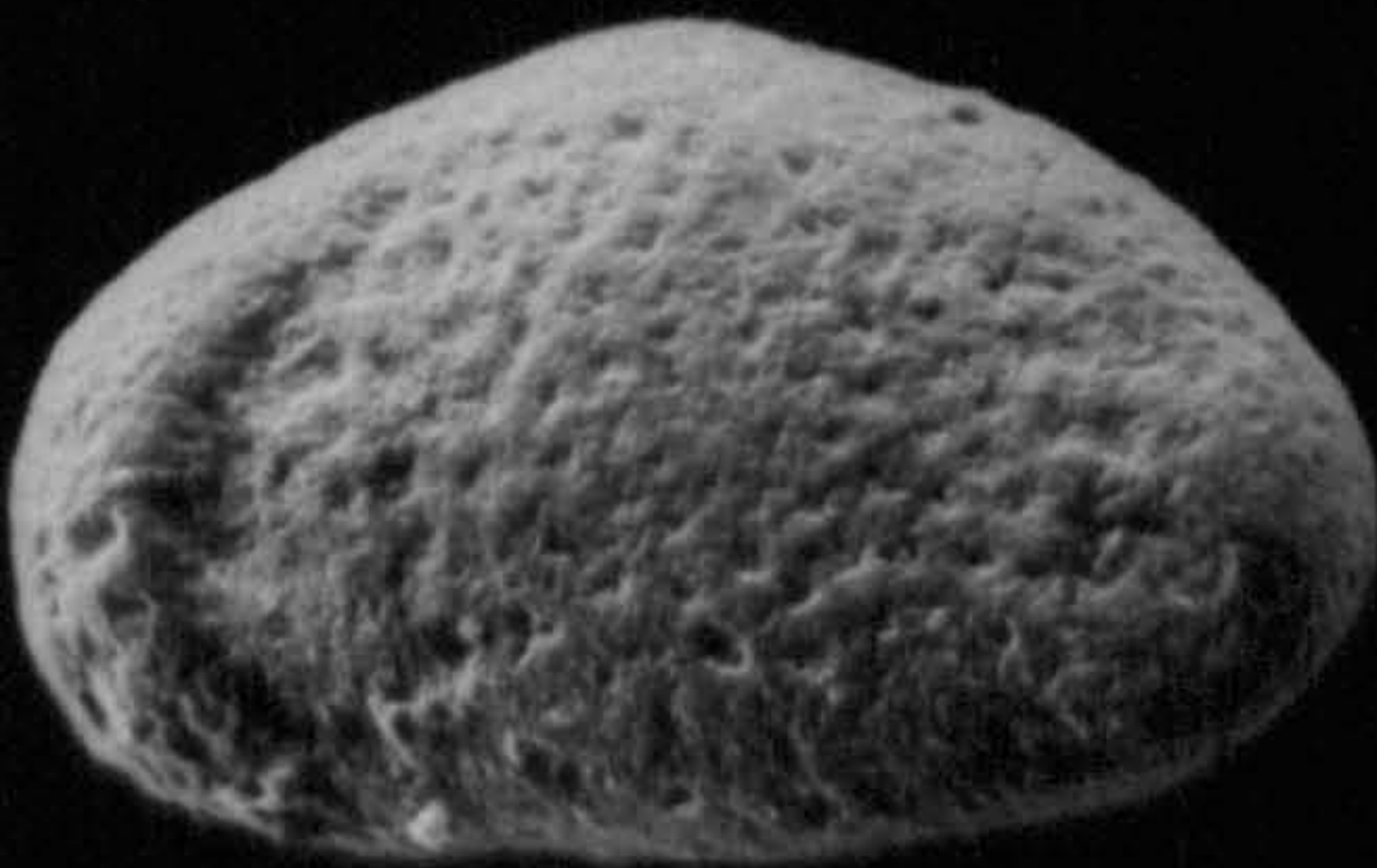
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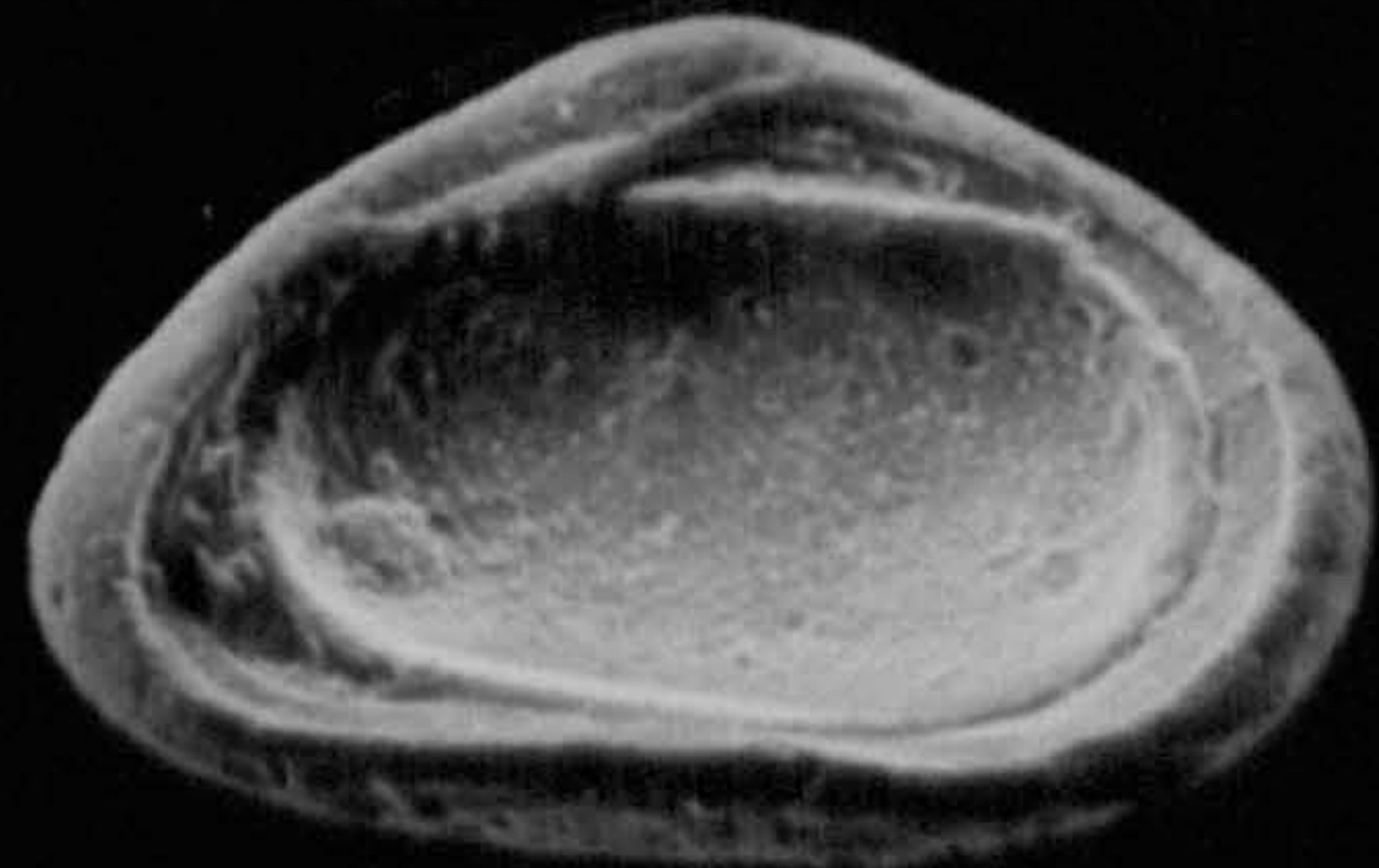
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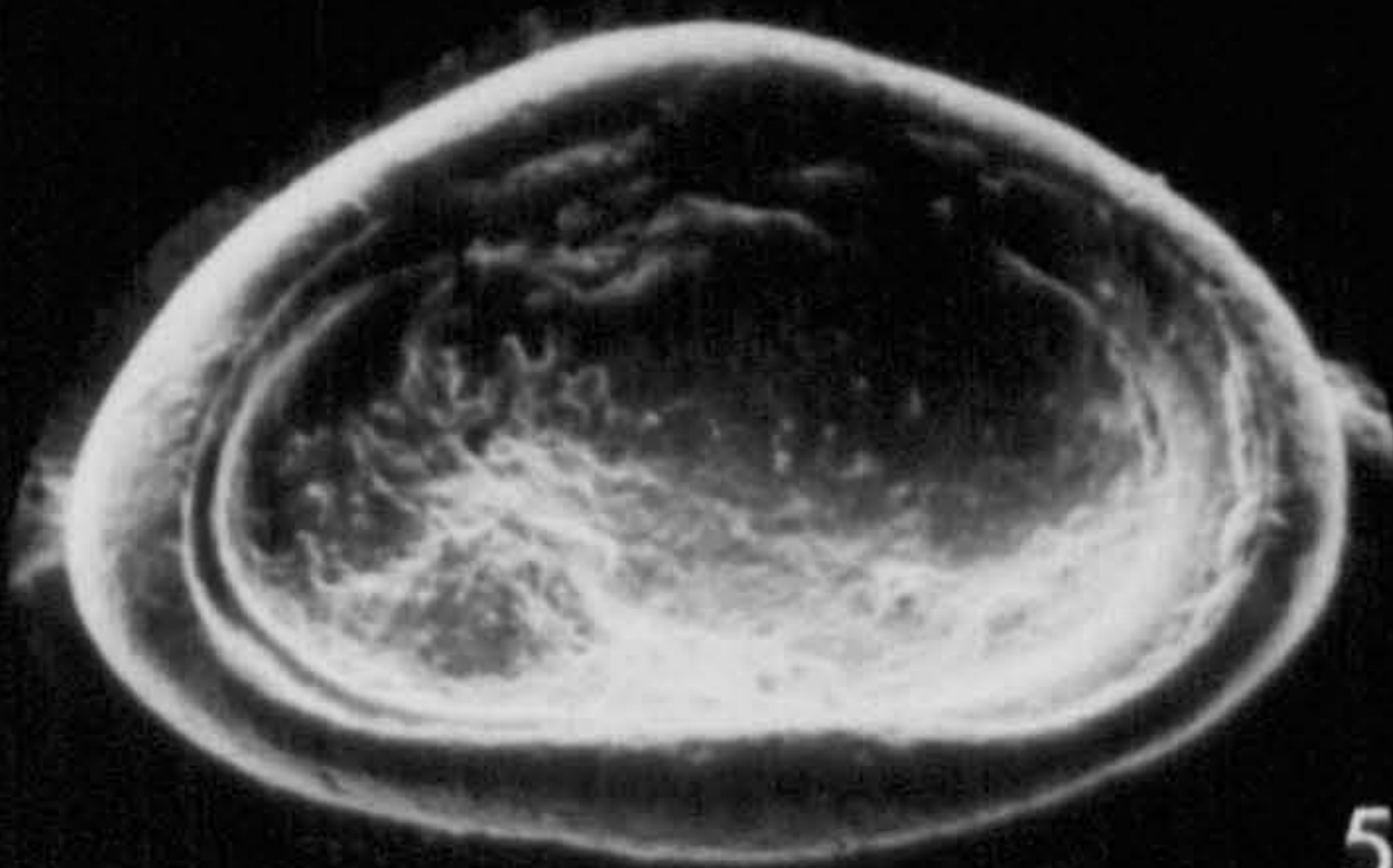
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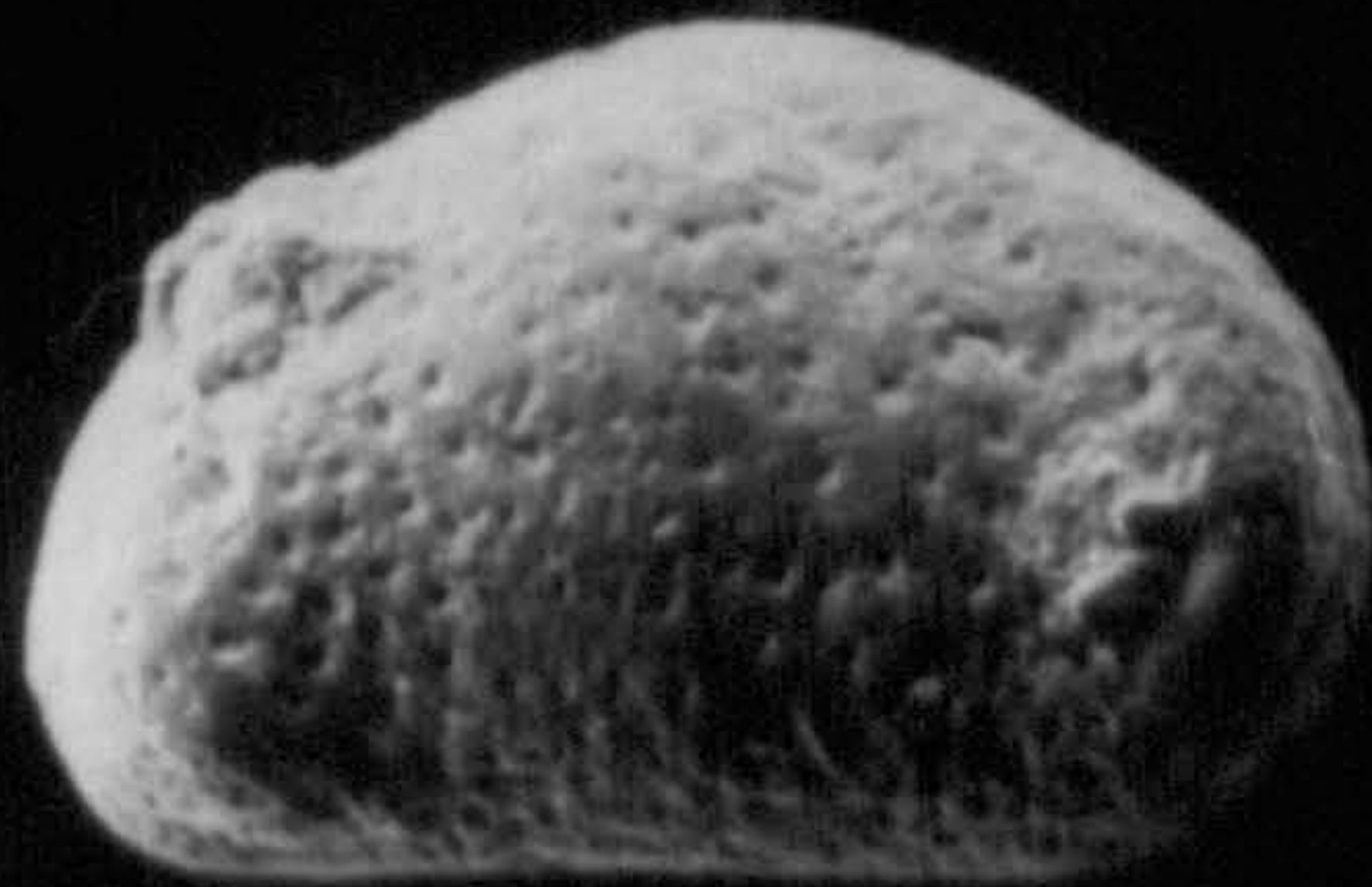
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EXPLANATION OF PLATE - 5

Ovocytheridea harunalrashidi sp. nov.

Fig. 1- Left valve, external, lateral view, (holotype J.T. 26); East Baghdad Well-3, drilling depth 2328 m; X103.

Fig. 2- Left valve, internal, lateral view, (paratype J.T. 27), stereoscopic paired photographs; East Baghdad Well-3, drilling depth 2296 m; X91.

Fig. 3- Right valve, internal, lateral view, (paratype J.T. 28), stereoscopic paired photographs; East Baghdad Well-3, drilling depth 2570 m; X89.

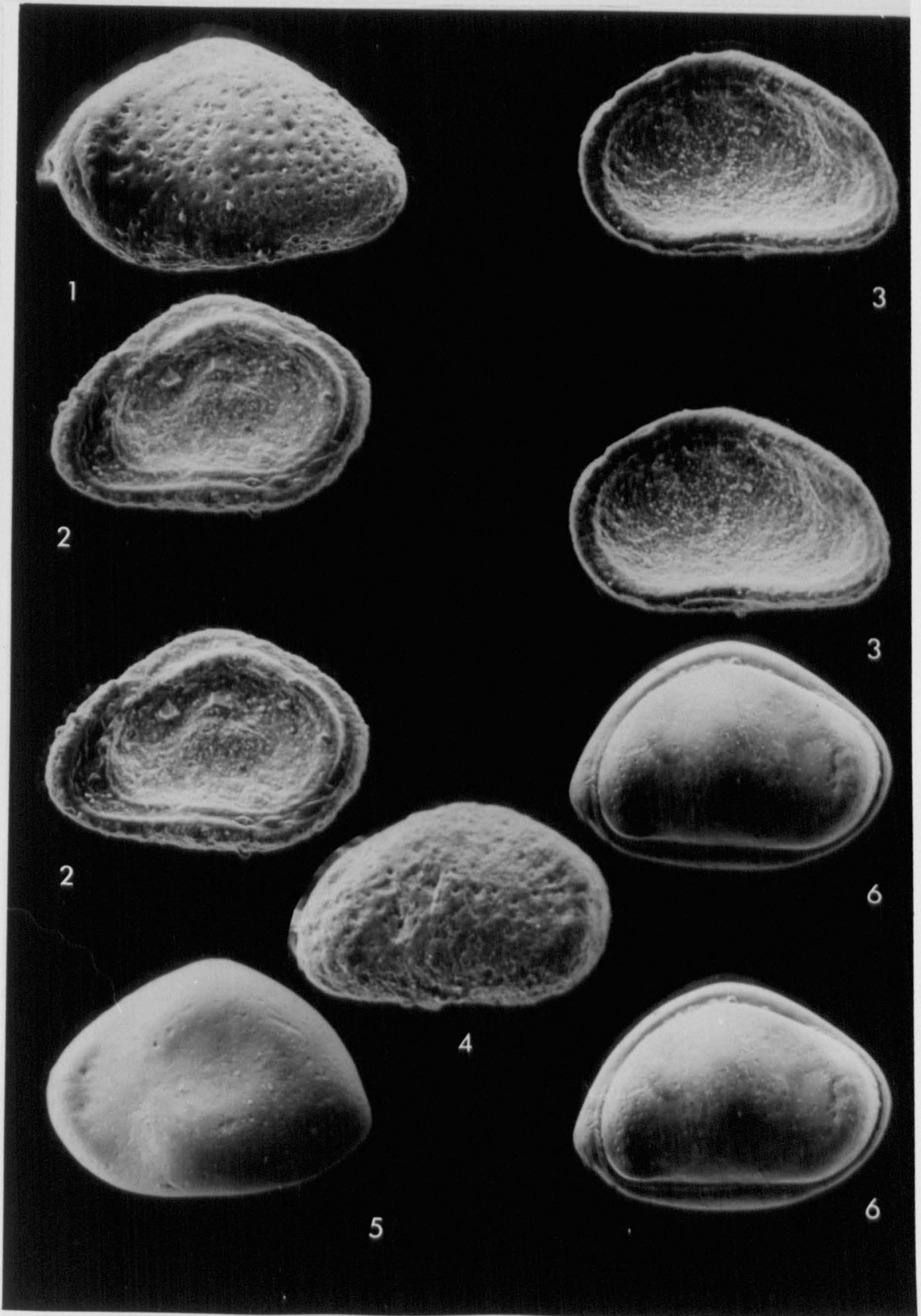
Fig. 4- Right valve, external, lateral view, (paratype J.T. 28); East Baghdad Well-3, drilling depth 2570 m; X88.

Ovocytheridea ibnalmutazii sp. nov.

Fig. 5- Male carapace, left valve, external, lateral view, (paratype J.T. 30); Kifl Well-2, drilling depth 4380 ft, X65.

Fig. 6- Male carapace, right valve, external, lateral view, (paratype J.T. 32), stereoscopic paired photographs; Kifl Well-2, drilling depth 4365 ft; X65.

PLATE-5



EXPLANATION OF PLATE - 6

Ovocytheridea ibnalmutazzi sp. nov.

All specimens from Kifl Well-2.

Fig. 1- Male carapace, left valve, external, lateral view, (holotype J.T. 31), stereoscopic paired photographs; drilling depth 4365 ft; X66.

Fig. 2- Male carapace, left valve, external, lateral view, (paratype J.T. 30), stereoscopic paired photographs; drilling depth 4380 ft; X65.

Fig. 3- Male right valve, internal, lateral view, (paratype J.T. 34), stereoscopic paired photographs; drilling depth 4655 ft; X74.

Fig. 4- Male right valve, internal view, hinge details, (paratype J.T. 29); drilling depth 4360 ft; X86.

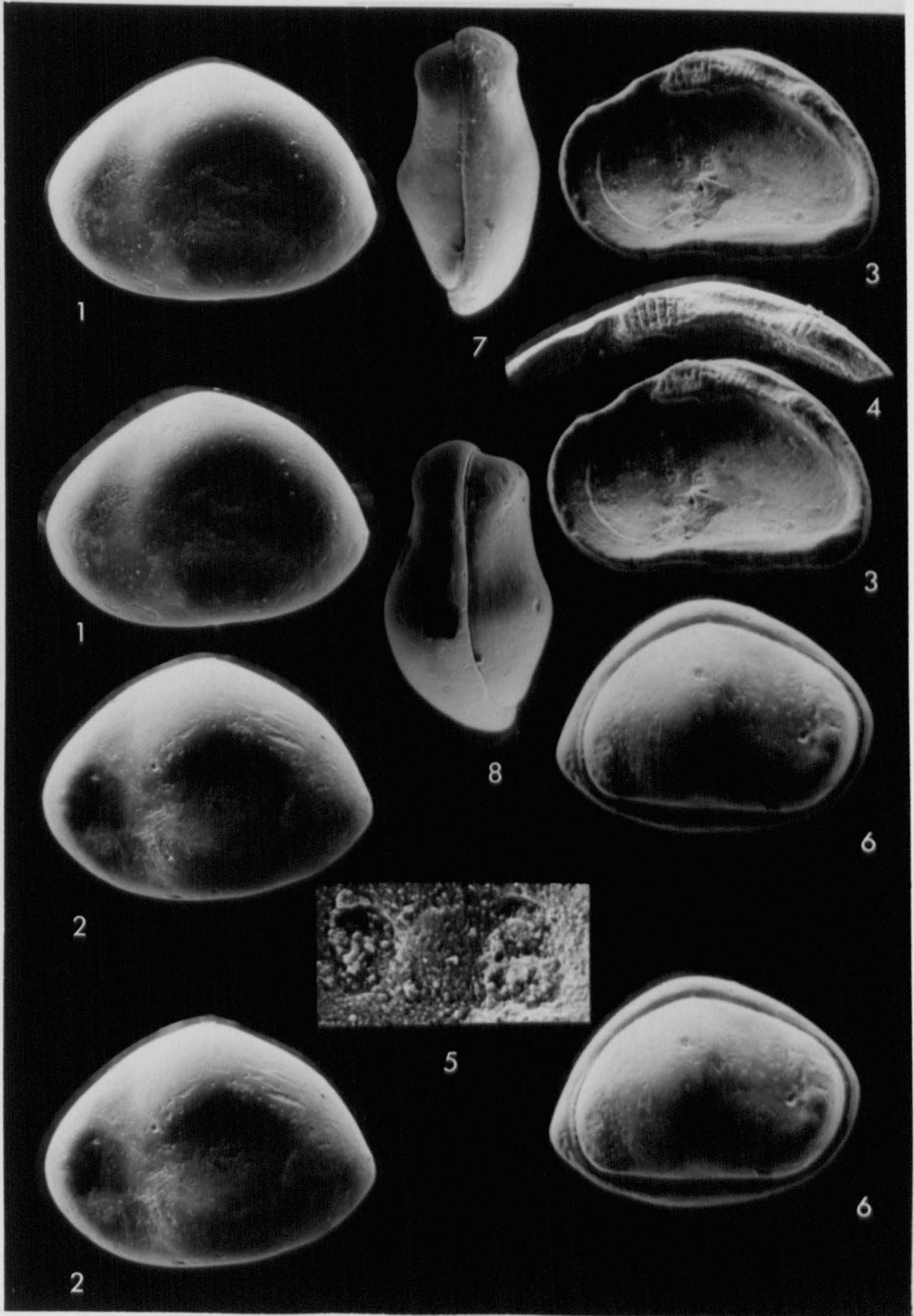
Fig. 5- Male right valve, internal view, central muscle scars, (paratype J.T. 34); drilling depth 4655 ft; X88.

Fig. 6- Male carapace, right valve, external, lateral view, (paratype J.T. 33), stereoscopic paired photographs; drilling depth 5260 ft; X64.

Fig. 7- Male carapace, external, ventral view, (holotype J.T. 31); drilling depth 4365 ft; X58.

Fig. 8- Male carapace, external, dorsal view, (holotype J.T. 31); drilling depth 4365 ft; X58.

PLATE-6



EXPLANATION OF PLATE - 7

All specimens from South Rumaila Well-104

Eocytheropteron ? ibnalrumii sp. nov.

Fig. 1- Carapace, left valve, external, lateral view, (holotype J.T. 35), stereoscopic paired photographs; drilling depth 2656 m; X94.

Fig. 2- Carapace, right valve, external, lateral view, (holotype J.T. 35), stereoscopic paired photographs; drilling depth 2656 m; X94.

Fig. 3- Carapace, external, dorsal view, (holotype J.T. 35); drilling depth 2656 m; X85.

Fig. 4- Carapace, external, ventral view, (holotype J.T. 35); drilling depth 2656 m; X85.

Eocytheropteron sp. A

Fig. 5- Carapace, left valve, external, lateral view, (J.T. 37); drilling depth 2788 m; X117.

Eocytheropteron retroversicardiatum Al-Abdul-Razzaq, 1980

Fig. 6- Female carapace, right valve with reversed overlap, external, lateral view, (J.T. 40), stereoscopic paired photographs; drilling depth 2704 m; X120.

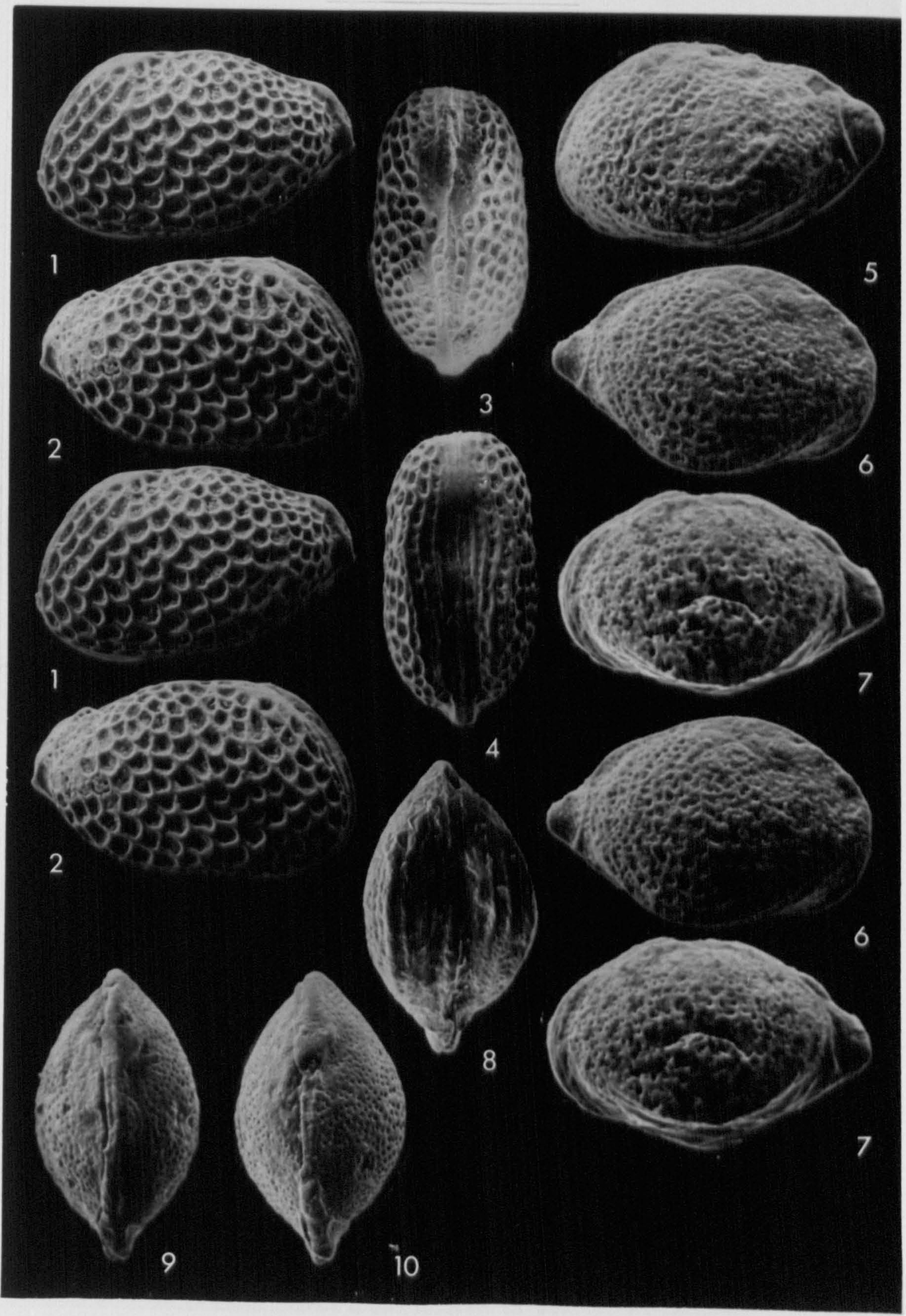
Fig. 7- Female carapace, left valve with reversed overlap, external, lateral view, (J.T. 41), stereoscopic paired photographs; drilling depth 2722 m; X110.

Fig. 8- Female carapace, external, ventral view with reversed overlap, (J.T. 44); drilling depth 2742 m; X101.

Fig. 9- Female carapace, external, dorsal view with reversed overlap, (J.T. 44); drilling depth 2742 m; X100.

Fig. 10- Female carapace, external, dorsal view with reversed overlap, (J.T. 41); drilling depth 2722 m; X96.

PLATE-7



EXPLANATION OF PLATE - 8

All specimens from South Rumaila Well-104

Eocytheropteron retroversicardium Al-Abdul-Razzaq, 1980

Fig. 1- Female carapace, left valve with reversed overlap, external, lateral view, (J.T. 44), stereoscopic paired photographs; drilling depth 2742 m; X112.

Fig. 2- Female carapace, left valve with normal overlap, external, lateral view, (J.T. 39), stereoscopic paired photographs; drilling depth 2750 m; X107.

Fig. 3- Female carapace, right valve with normal overlap, external, lateral view, (J.T. 43), stereoscopic paired photographs; drilling depth 2704 m; X106.

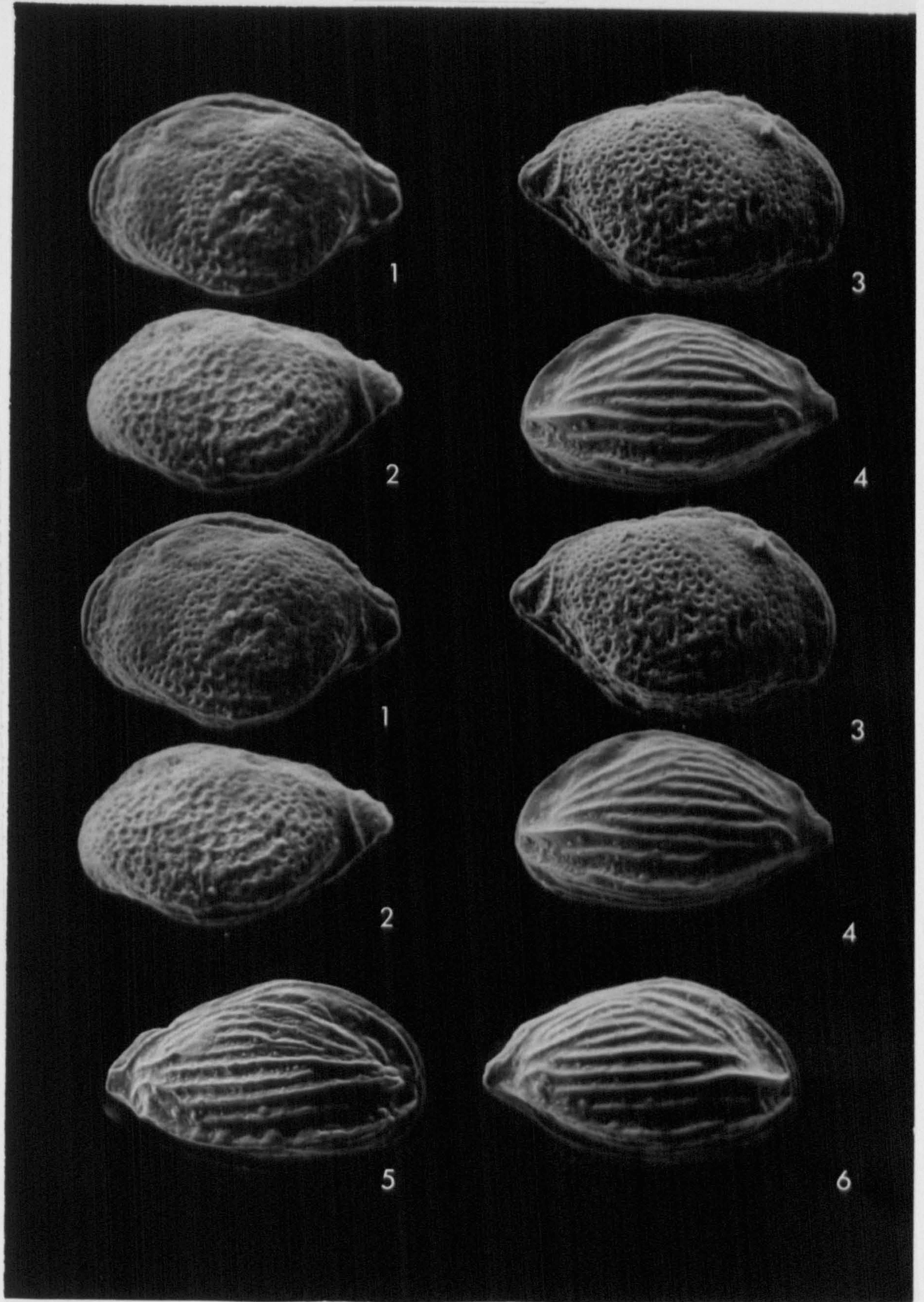
Metacytheropteron berbericus (Bassoullet and Damotte, 1969)

Fig. 4- Female carapace, left valve, external, lateral view, (J.T. 45), stereoscopic paired photographs; drilling depth 2658 m; X96.

Fig. 5- Female carapace, right valve, external, lateral view, (J.T. 49); drilling depth 2674 m; X89.

Fig. 6- Female carapace, right valve, external, lateral view, (J.T. 45), drilling depth 2658 m; X96.

PLATE-8



EXPLANATION OF PLATE - 9

All specimens from South Rumaila Well-104.

Metacytheropteron berbericus (Bassoullet and Damotte, 1969)

Fig. 1- Female carapace, right valve, external, lateral view, (J.T. 52), stereoscopic paired photographs; drilling depth 2722 m; X89.

Fig. 2- Male carapace, left valve, external, lateral view, (J.T. 54), stereoscopic paired photographs; drilling depth 2728 m; X89.

Fig. 3- Male carapace, right valve, external, lateral view, (J.T. 54), stereoscopic paired photographs; drilling depth 2728 m; X91.

Fig. 4- Male carapace, right valve, external, lateral view, (J.T. 53), stereoscopic paired photographs; drilling depth 2692 m; X87.

Fig. 5- Female carapace, external, dorsal view, (J.T. 47), drilling depth 2644 m; X95.

Fig. 6- Female carapace, external, ventral view, (J.T. 47), drilling depth 2644 m; X95.

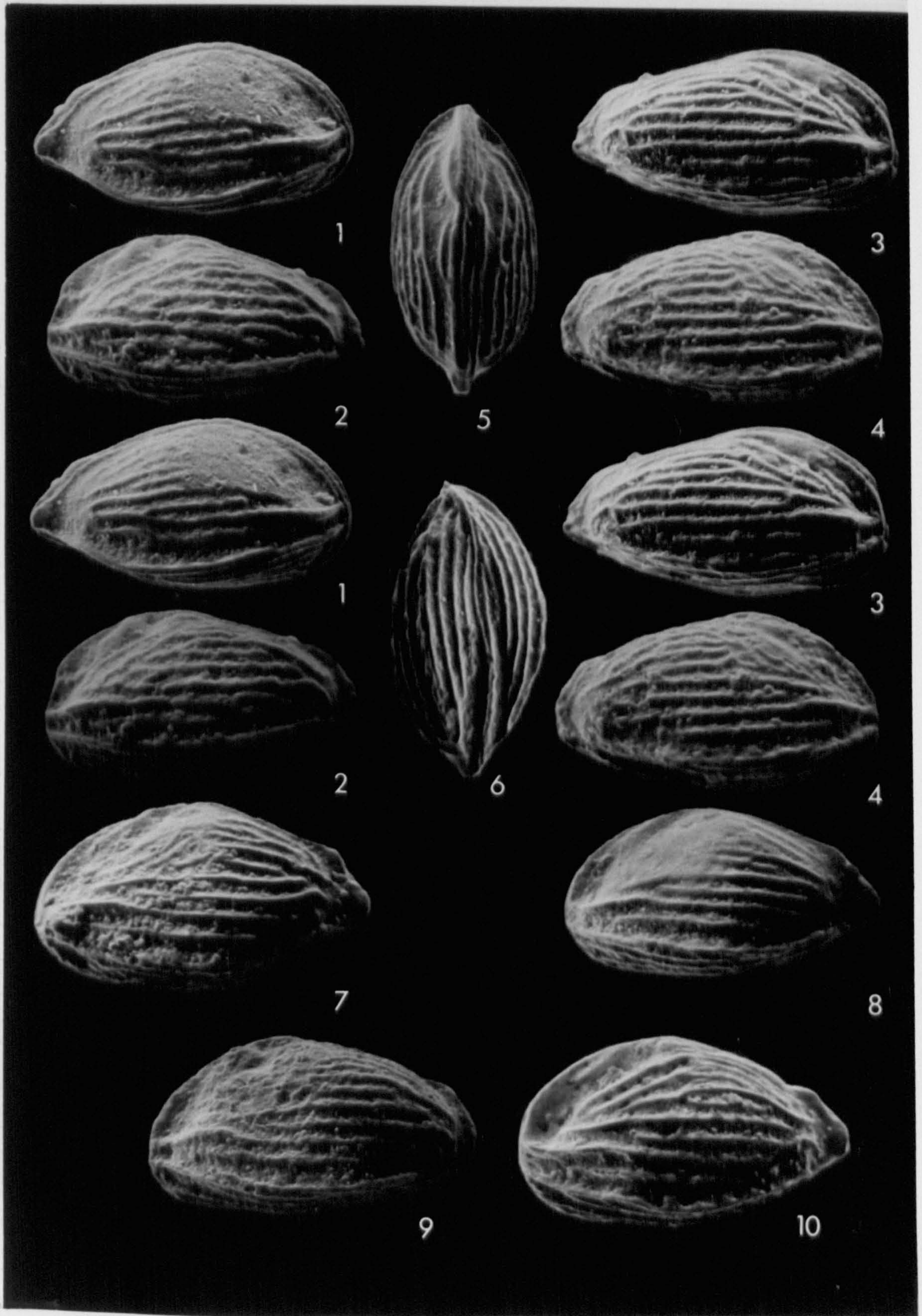
Fig. 7- Female carapace, external, lateral view, (J.T. 51); drilling depth 2742; X96.

Fig. 8- Female carapace, left valve, external, lateral view, (J.T. 52); drilling depth 2722 m; X88.

Fig. 9- Male carapace, left valve, external, lateral view (J.T. 53); drilling depth 2692 m; X88.

Fig. 10- Female carapace, left valve, external, lateral view, (J.T. 49); drilling depth 2674 m; X92.

PLATE-9



EXPLANATION OF PLATE - 10

Metacytheropteron hevyonensis (Rosenfeld, 1974).

Fig. 1- Female carapace, left valve, external, lateral view, (J.T.55), stereoscopic paired photographs; South Rumaila Well-104, drilling depth 2791 m; X91.

Fig. 2- Female carapace, right valve, external, lateral view, (J.T.55), stereoscopic paired photographs; South Rumaila Well-104, drilling depth 2791 m; X92.

Fig. 3- Male carapace, right valve, external, lateral view, (J.T.56), stereoscopic paired photographs; East Baghdad Well-3, drilling depth 2842 m; X84.

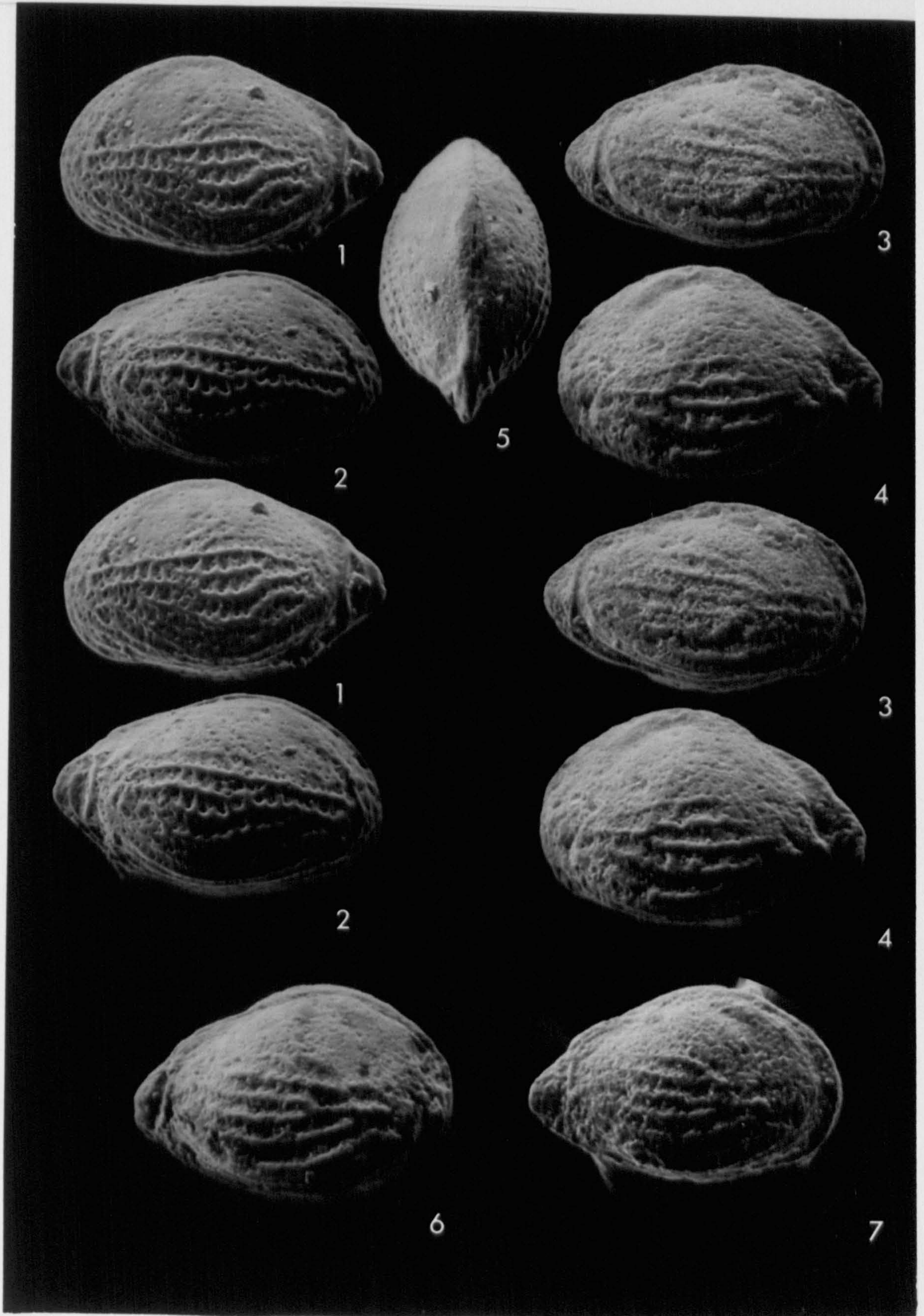
Fig. 4- Female carapace, left valve, external, lateral view, (J.T.57), stereoscopic paired photographs; East Baghdad Well-3, drilling depth 2842 m; X95.

Fig. 5- Female carapace, external, dorsal view, (J.T.55); South Rumaila Well-104, drilling depth 2791 m; X80.

Fig. 6- Female carapace, right valve, external, lateral view, (J.T.57); East Baghdad Well-3, drilling depth 2842 m; X93.

Fig. 7- Female carapace, right valve, external, lateral view, (J.T.58); East Baghdad Well-3, drilling depth 2842 m; X88.

PLATE-10



EXPLANATION OF PLATE - 11

Paracytheridea ibnaltayyabi sp. nov.

All specimens from Ghalaisan Well-1.

Fig. 1- Female carapace, left valve, external, lateral view, (holotype J.T. 59), stereoscopic paired photographs; drilling depth 3720 ft; X97.

Fig. 2- Female carapace, right valve, external, lateral view, (holotype J.T. 59), stereoscopic paired photographs; drilling depth 3720 ft; X98.

Fig. 3- Male carapace, left valve, external, lateral view, (paratype J.T. 62), stereoscopic paired photographs; drilling depth 3755 ft; X94.

Fig. 4- Male carapace, right valve, external, lateral view, (paratype J.T. 61), stereoscopic photographs; drilling depth 3725 ft; X93.

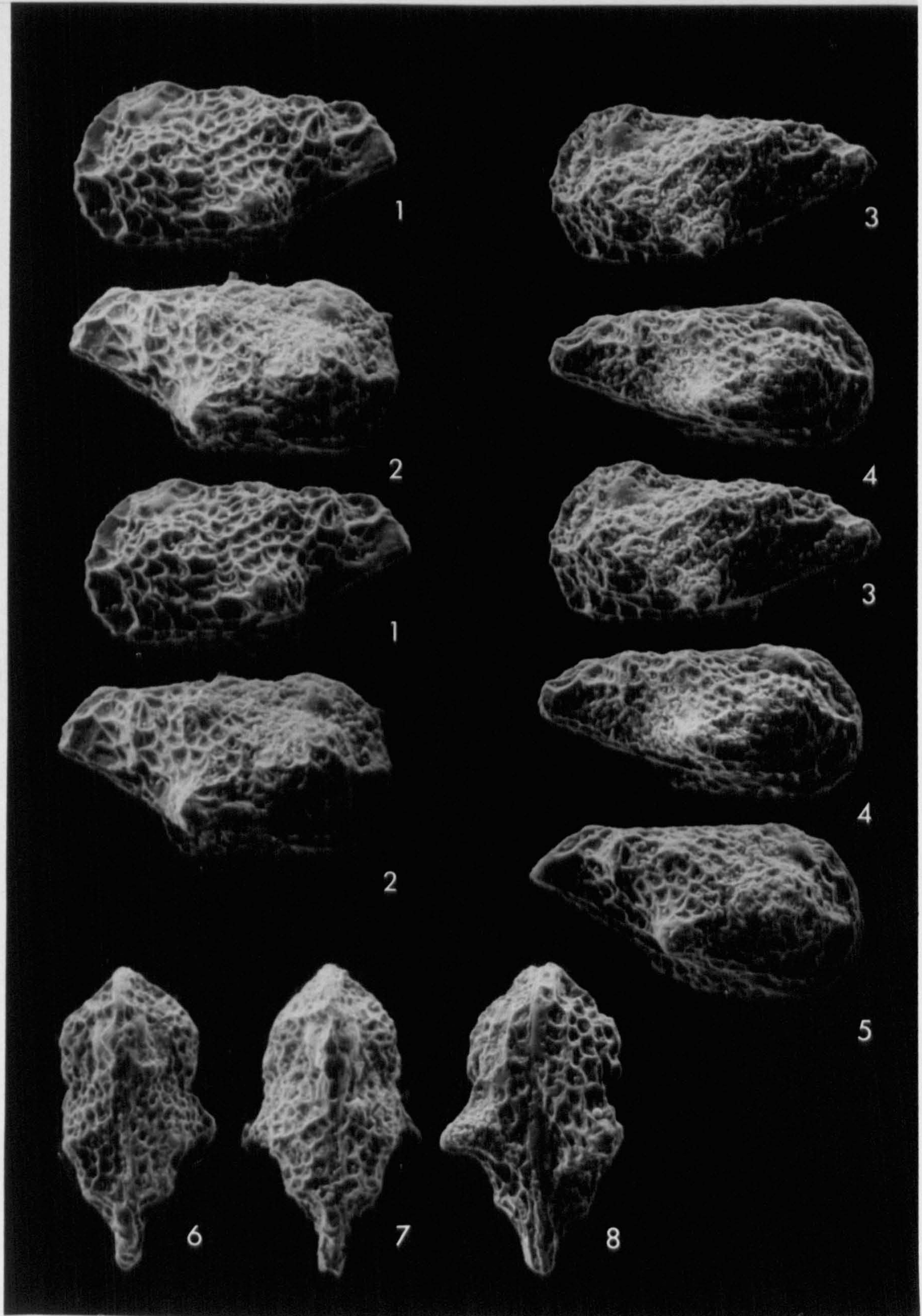
Fig. 5- Female carapace, right valve, external, lateral view, (paratype J.T. 60), drilling depth 3735 ft; X100.

Fig. 6- Female carapace, external, dorsal view, (paratype J.T. 60), drilling depth 3735 ft; X88.

Fig. 7- Male carapace, external, dorsal view, (paratype J.T. 62), drilling depth 3755 ft; X85.

Fig. 8- Female carapace, external, ventral view, (holotype J.T. 59); drilling depth 3720 ft; X88.

PLATE-11



EXPLANATION OF PLATE - 12

Amphicytherura mishrifensis Al-Abdul-Razzaq, M.S., 1977.

Fig. 1- Female carapace, left valve, external, lateral view, (J.T. 63), stereoscopic paired photographs; Safawi Well-1, drilling depth 3490 ft; X95.

Fig. 2- Female carapace, right valve, external, lateral view, (J.T. 63), stereoscopic paired photographs; Safawi Well-1, drilling depth 3490 ft; X91.

Fig. 3- Female carapace, right valve, external, lateral view, (J.T. 64); East Baghdad Well-3, drilling depth 2563 m; X88.

Fig. 4- Female carapace, external, dorsal view, (J.T. 63); Safawi Well-1, drilling depth 3490 ft; X83.

Fig. 5- Female carapace, external, ventral view, (J.T. 63); Safawi Well-1, drilling depth 3496 ft; X82.

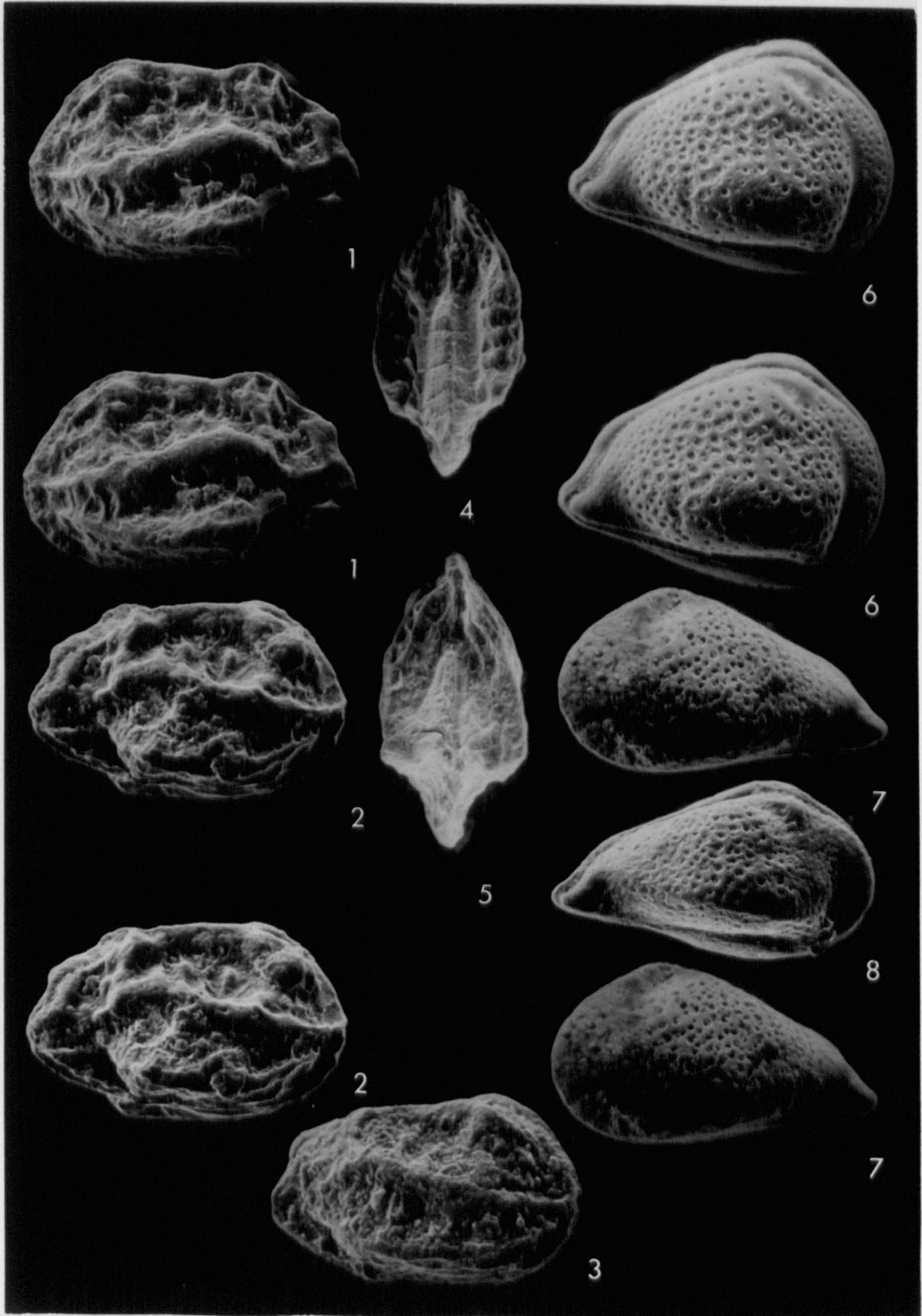
Brachythere basrahaensis sp. nov.

Fig. 6- Female carapace, right valve, external, lateral view, (paratype J.T. 75), stereoscopic paired photographs; Kifl Well-2, drilling depth 4405 ft; X80.

Fig. 7- Male carapace, left valve, external, lateral view, (paratype J.T. 92), stereoscopic paired photographs; Safawi Well-1, drilling depth 3205 ft; X70.

Fig. 8- Male carapace, right valve, external, lateral view, (paratype J.T. 92); Safawi Well-1, drilling depth 3205 ft; X68.

PLATE-12



EXPLANATION OF PLATE - 13

Brachycythere basrahaensis sp. nov.

Fig. 1- Female carapace, left valve, external, lateral view, (holotype J.T. 84), stereoscopic paired photographs; Kifl Well-2, drilling depth 4470 ft; X71.

Fig. 2- Female carapace, right valve, external, lateral view, (paratype J.T. 82), stereoscopic paired photographs; Kifl Well-2, drilling depth 4405 ft; X71.

Fig. 3- Male carapace, left valve, external, lateral view, (paratype J.T. 91), stereoscopic paired photographs; Safawi Well-1, drilling depth 3230 ft; X81.

Fig. 4- Female carapace, left valve, external, lateral view, (paratype J.T. 76), stereoscopic paired photographs; Kifl Well-2, drilling depth 4405 ft; X80.

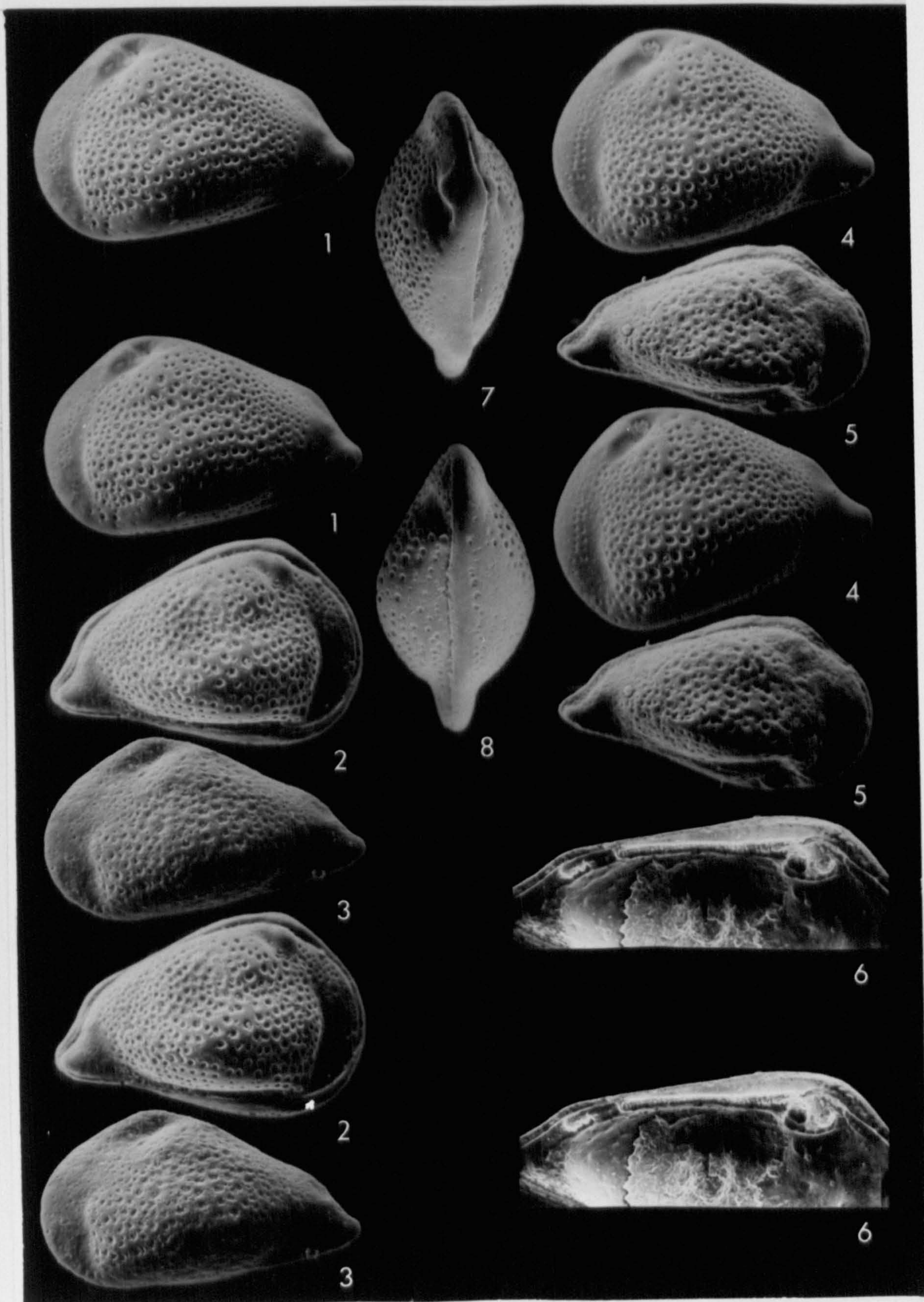
Fig. 5- Male carapace, right valve, external, lateral view, (paratype J.T. 90), stereoscopic paired photographs; Safawi Well-1, drilling depth 3230 ft; X69.

Fig. 6- Female left valve, internal view, hinge details, (paratype J.T. 89), stereoscopic paired photographs; South Rumaila Well-104, drilling depth 2394 m; X74.

Fig. 7- Female carapace, external, dorsal view, (paratype J.T. 85); Kifl Well-2, drilling depth 4470 ft; X58.

Fig. 8- Female carapace, external, ventral view, (paratype J.T. 73); Kifl Well-2, drilling depth 4405 ft; X71.

PLATE-13



EXPLANATION OF PLATE - 14

Brachycythere basrahaensis sp. nov.

Fig. 1- Female carapace, left valve, external, lateral view, (paratype J.T. 69), stereoscopic paired photographs; Safawi Well-1, drilling depth 3230 ft; X51.

Fig. 2- Female carapace, right valve, external, lateral view, (paratype J.T. 68), stereoscopic paired photographs; South Rumaila Well-104, drilling depth 2368 m; X81.

Fig. 3- Female left valve, internal, lateral view, (paratype J.T. 89), stereoscopic paired photographs; South Rumaila Well-104, drilling depth 2394 m; X62.

Fig. 4- Female right valve, internal, lateral view, (paratype J.T. 80), stereoscopic paired photographs; Kifl Well-2, drilling depth 4470 ft; X86.

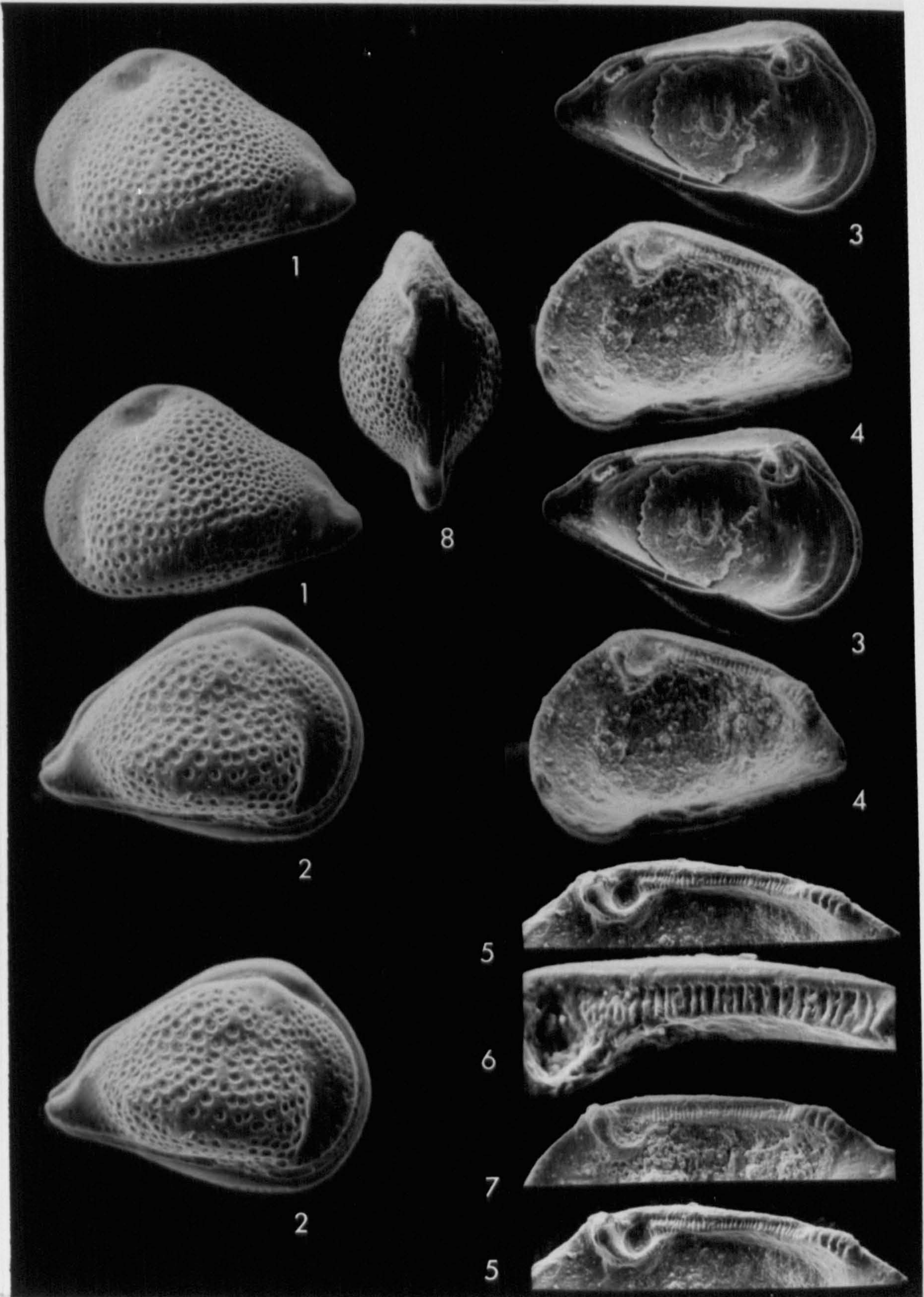
Fig. 5- Male right valve, internal view, hinge details, (paratype J.T. 93), stereoscopic paired photographs; South Rumaila Well-104, drilling depth 2416 m; X83.

Fig. 6- Female carapace, right valve, internal view, crenulation of the Postero-median Socket, (paratype J.T. 70); South Rumaila Well-104, drilling depth 2362 m; X110.

Fig. 7- Female right valve, internal view, hinge details, (paratype J.T. 78); Kifl Well-2, drilling depth 4480 ft; X94.

Fig. 8- Female carapace, external, dorsal view, (paratype J.T. 72); Safawi Well-1, drilling depth 3225 ft; X70.

PLATE-14



EXPLANATION OF PLATE 15

Brachycythere hatraensis sp. nov.

Fig. 1- Female, left valve, external, lateral view, (holotype J.T. 94), stereoscopic paired photographs; Ghalaisan Well-1, drilling depth 3740 ft; X80.

Fig. 2- Female carapace, right valve, external, lateral view, (paratype J.T. 96), stereoscopic paired photographs; Kifl Well-2, drilling depth 4380 ft; X79..

Fig. 3- Male carapace, left valve, external, lateral view, (paratype J.T. 99), stereoscopic paired photographs; Ghalaisan Well-1, drilling depth 4170 ft, X74.

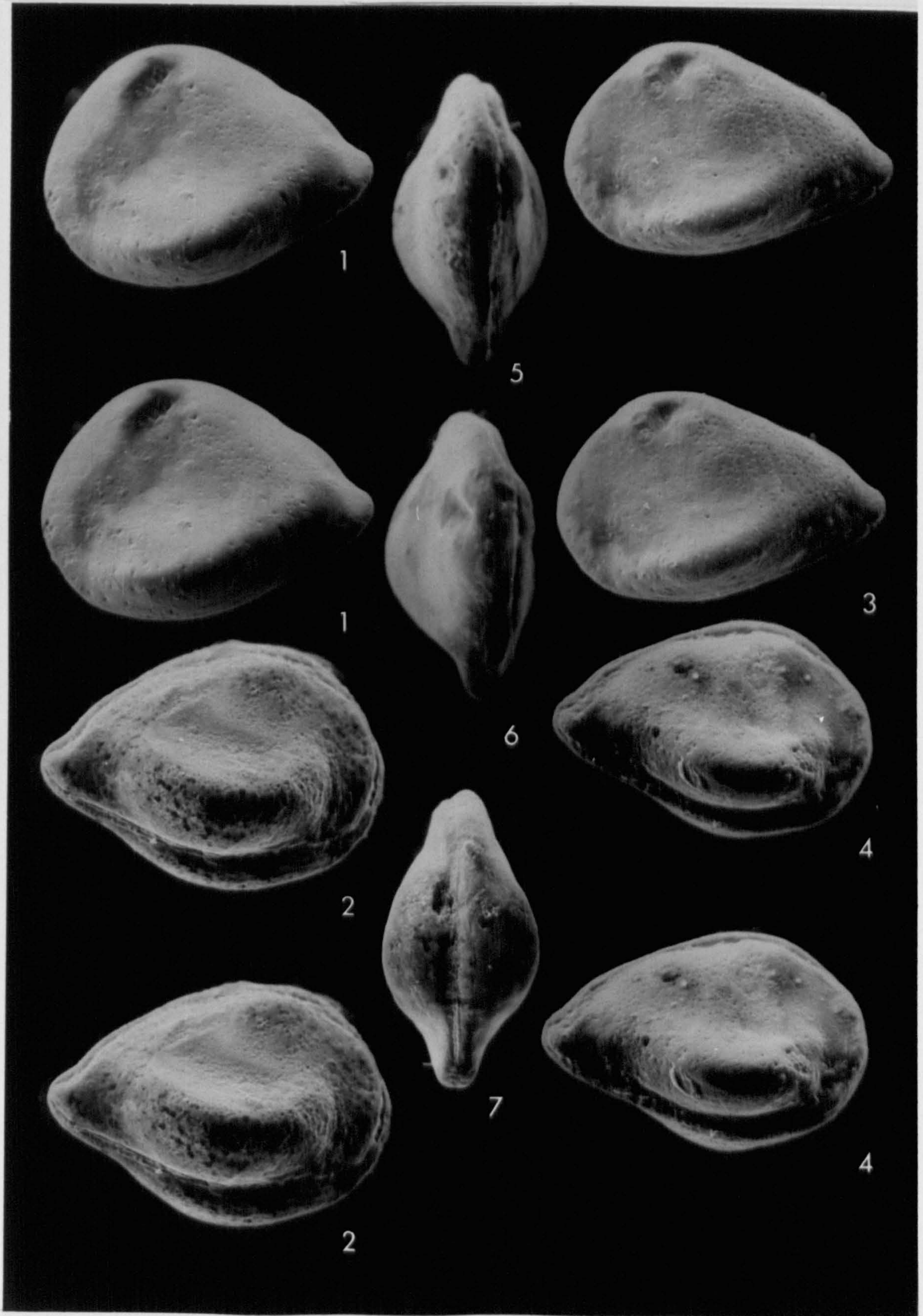
Fig. 4- Male carapace, right valve, external, lateral view, (paratype J.T. 99), stereoscopic paired photographs; Ghalaisan Well-1, drilling depth 4170 ft, X72.

Fig. 5- Female carapace, external, dorsal view, (paratype J.T. 96); Kifl Well-2, drilling depth 4380 ft; X69.

Fig. 6- Female carapace, external, dorsal view, (holotype J.T. 94); Ghalaisan Well-1, drilling depth 3740 ft; X 69.

Fig. 7- Female carapace, external, ventral view, (paratype J.T. 96); Kifl Well-2, drilling depth 4380 ft; X69.

PLATE-15



EXPLANATION OF PLATE - 16

Brachycythere hatraensis sp. nov.

Fig. 1- Female carapace, left valve, lateral view, (paratype J.T. 96), stereoscopic paired photographs; Kifl Well-2, drilling depth 4380 ft; X75.

Fig. 2- Female carapace, right valve, external, lateral view, (paratype J.T. 95), stereoscopic paired photographs; Kifl Well-2, drilling depth 4350 ft; X74.

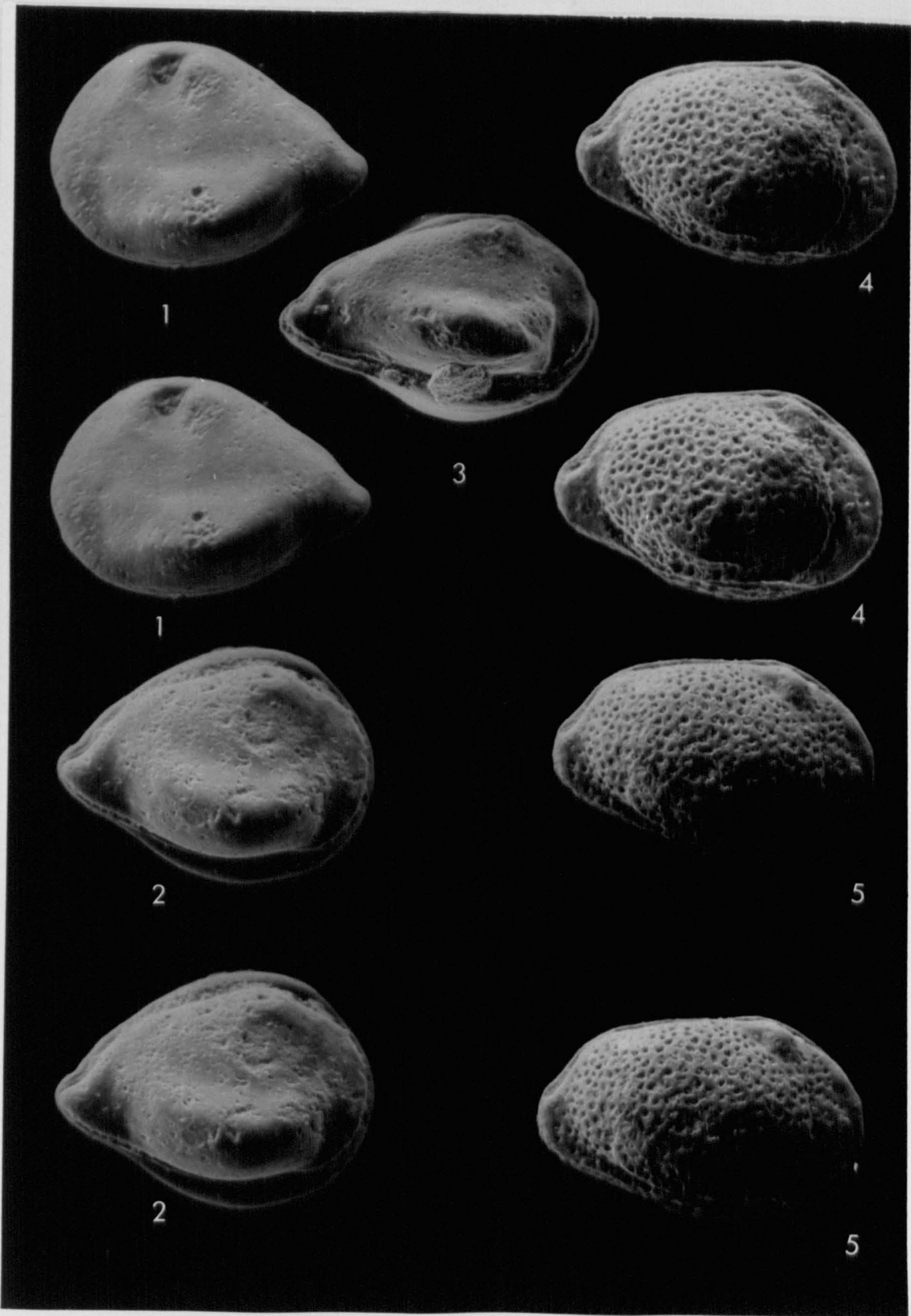
Fig. 3- Male carapace, right valve, external, lateral view, (paratype J.T. 100); Kifl Well-2, drilling depth 4370 ft, X63.

Brachycythere ghalaisanaensis sp. nov.

Fig. 4- Female carapace, right valve, external, lateral view, (paratype J.T. 103), stereoscopic paired photographs; Ghalaisan Well-1, drilling depth 3740 ft, X66.

Fig. 5- Male carapace, right valve, external, lateral view, (paratype J.T. 109), stereoscopic paired photographs; Ghalaisan Well-1, drilling depth 3735; X62.

PLATE-16



EXPLANATION OF PLATE - 17

Brachycythere ghalaisanaensis sp. nov.

All specimens from Ghalaisan Well-1.

Fig. 1- Female carapace, left valve, external, lateral view, (holotype J.T. 102), stereoscopic paired photographs; drilling depth 3735 ft; X59.

Fig. 2- Female carapace, right valve, external, lateral view, (paratype J.T. 106), stereoscopic paired photographs; drilling depth 4180 ft; X54.

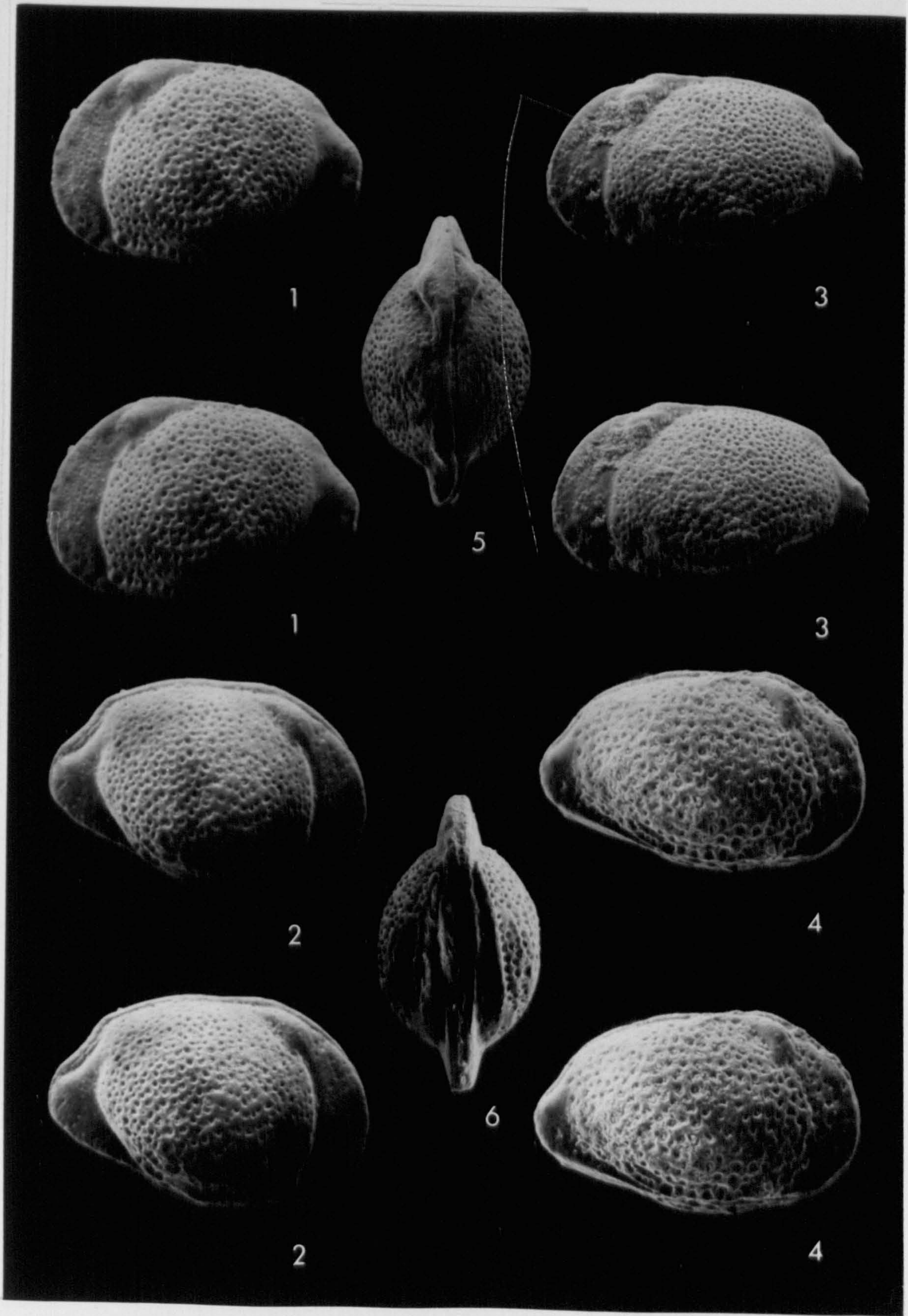
Fig. 3- Male carapace, left valve, external, lateral view, (paratype J.T. 111), stereoscopic paired photographs; drilling depth 3715 ft; X51.

Fig. 4- Male carapace, right valve, external, lateral view, (paratype J.T. 108), stereoscopic paired photographs; drilling depth 3715 ft; X61.

Fig. 5- Female carapace, external, dorsal view, (paratype J.T. 106); drilling depth 4180 ft; X48.

Fig. 6- Female carapace, external, ventral view, (holotype J.T. 102); drilling depth 3735 ft; X55.

PLATE-17



EXPLANATION OF PLATE - 18

Brachycythere ghalaisanaensis sp. nov.

Fig. 1- Male left valve, internal, lateral view, (paratype J.T. 110), stereoscopic paired photographs; Ghalaisan Well-1, drilling depth 3730 ft; X62.

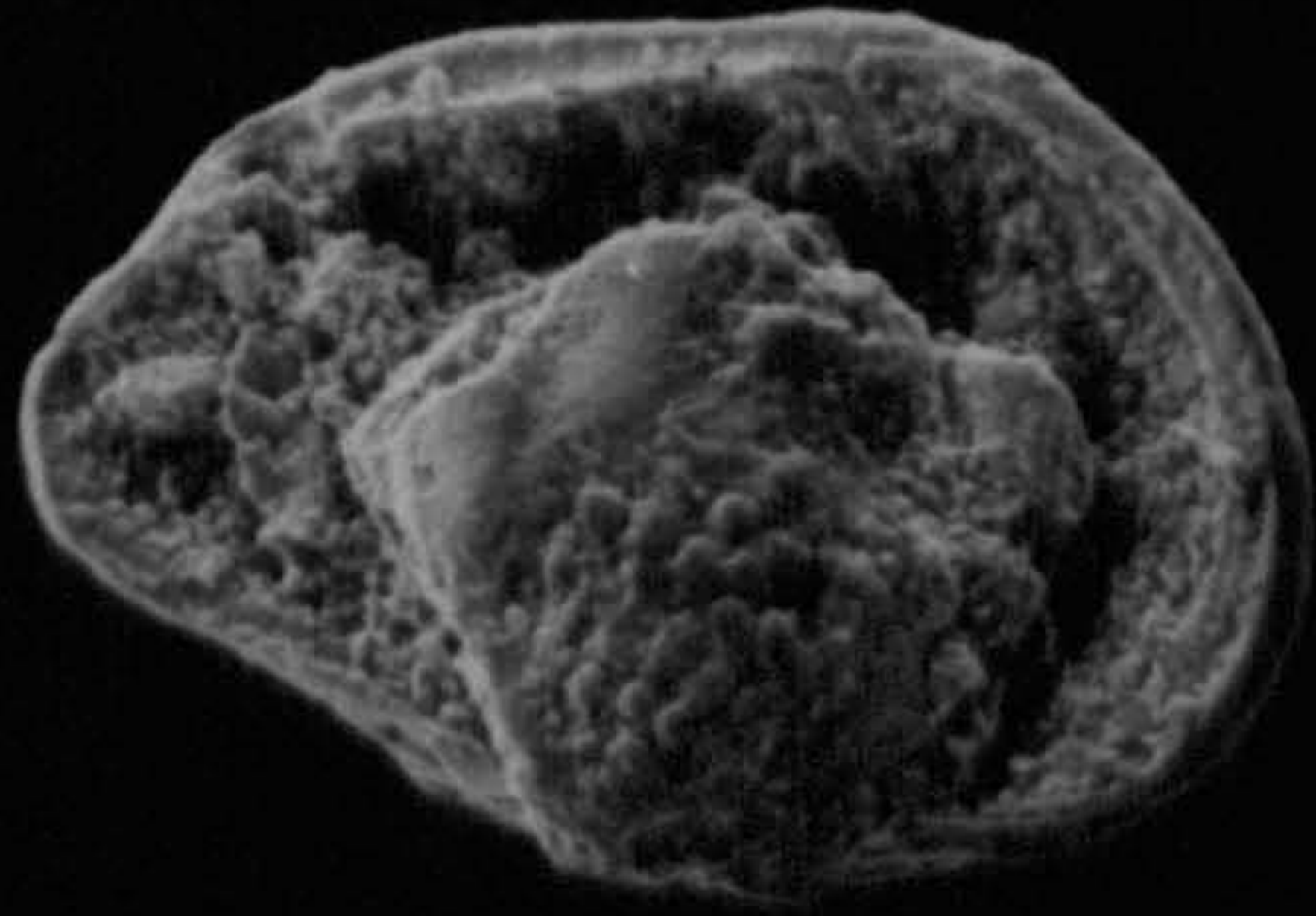
Fig. 2- Female carapace, left valve, external, lateral view, (paratype J.T. 101), stereoscopic paired photographs; Ghalaisan Well-1, drilling depth 3725 ft; X66.

Fig. 3- Male carapace, left valve, external, lateral view, (paratype J.T. 109), stereoscopic paired photographs; Ghalaisan Well-1, drilling depth 3735 ft; X63.

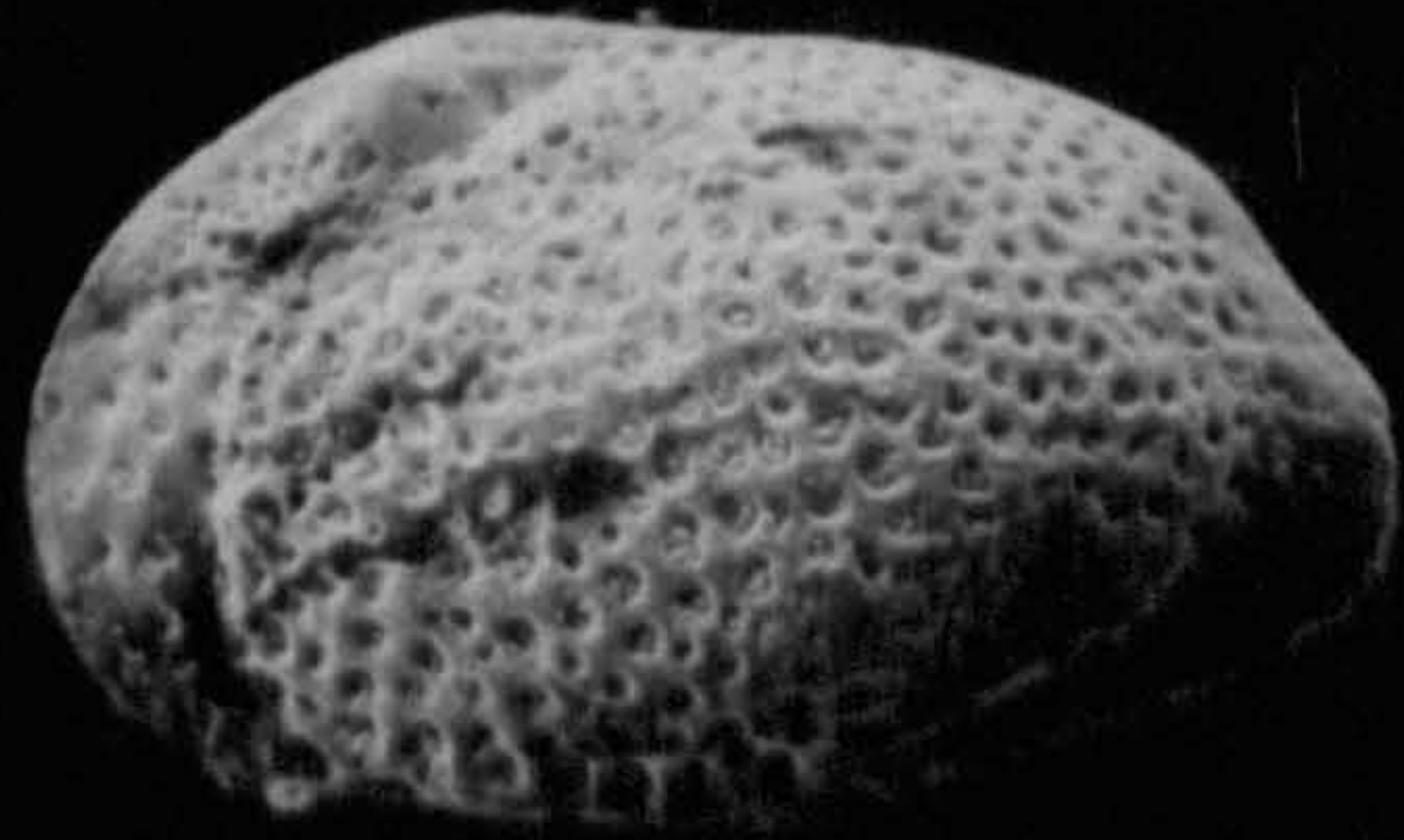
Brachycythere ibnalnafisi sp. nov.

Fig. 4- Female carapace, left valve, external, lateral view, (paratype J.T. 114), stereoscopic paired photographs; Safawi Well-1, drilling depth 3170 ft; X61.

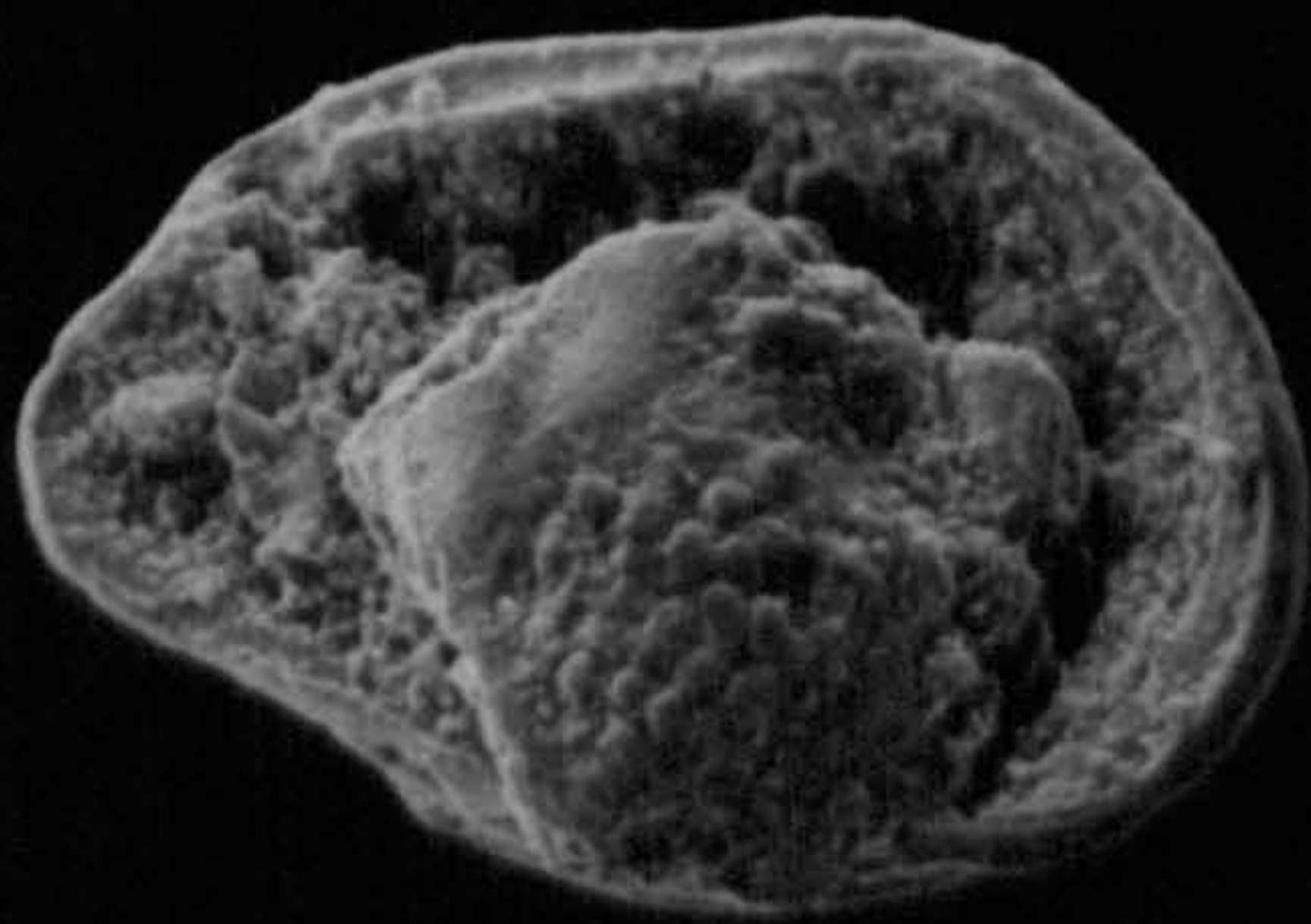
PLATE-18



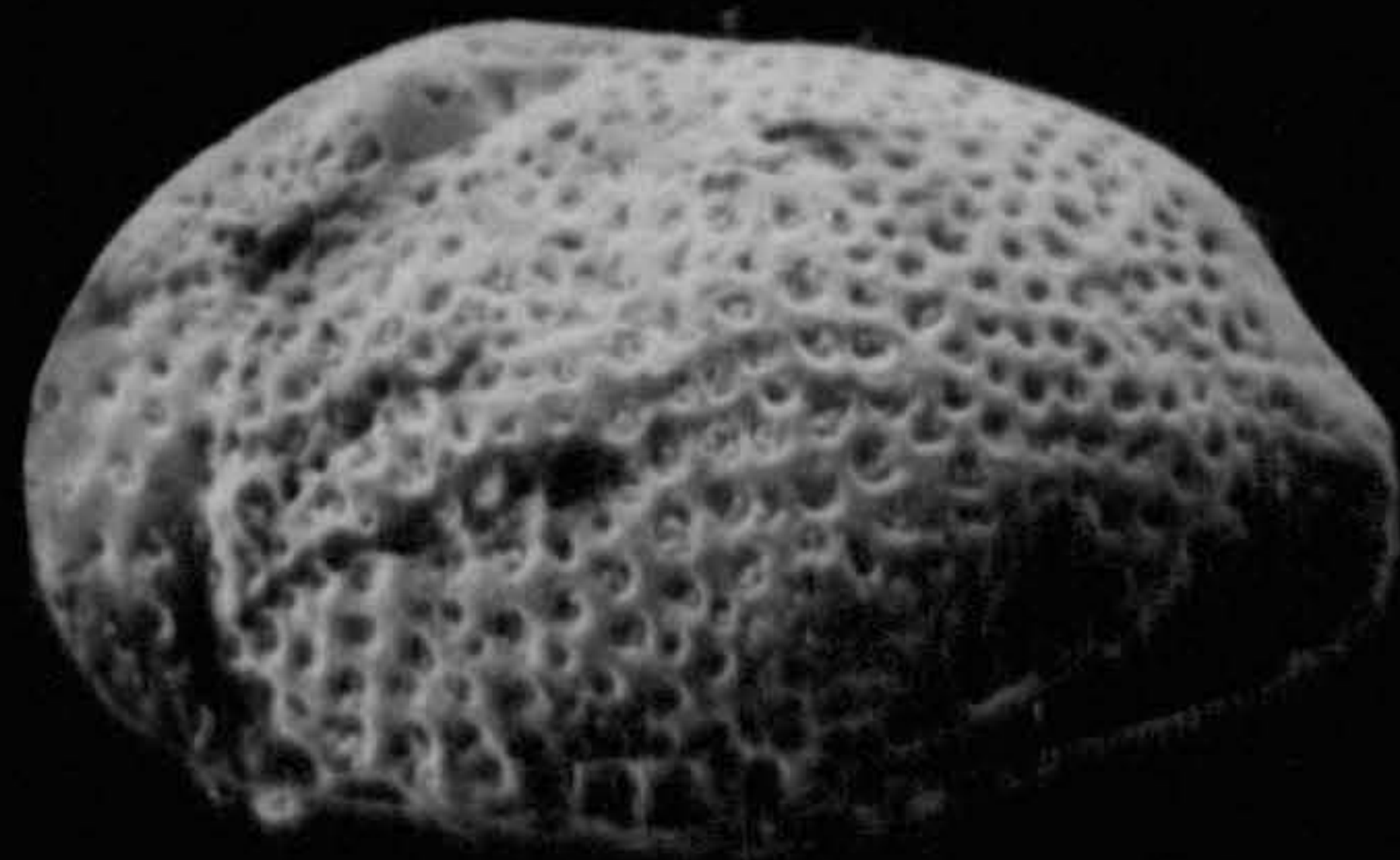
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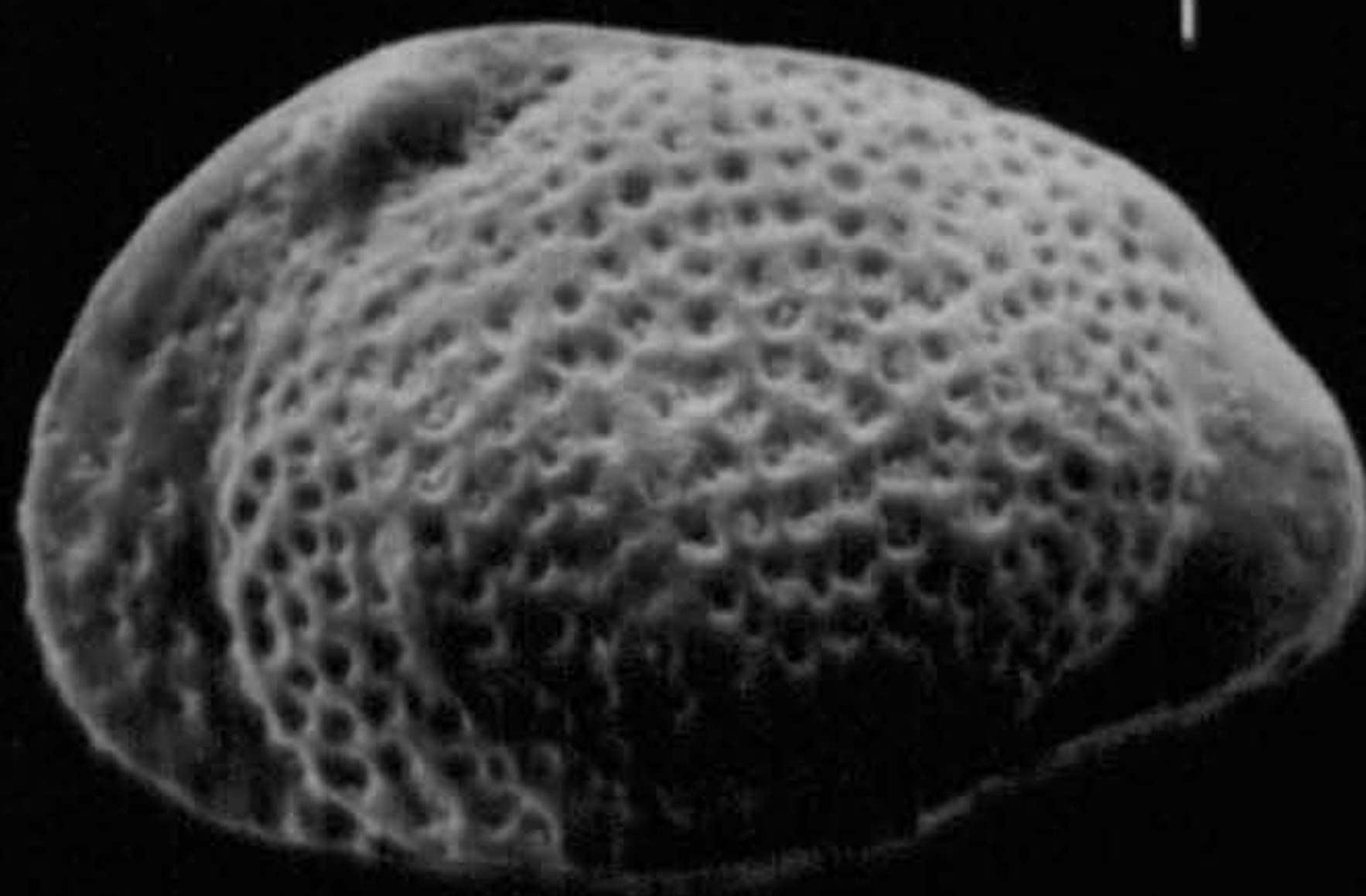
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1



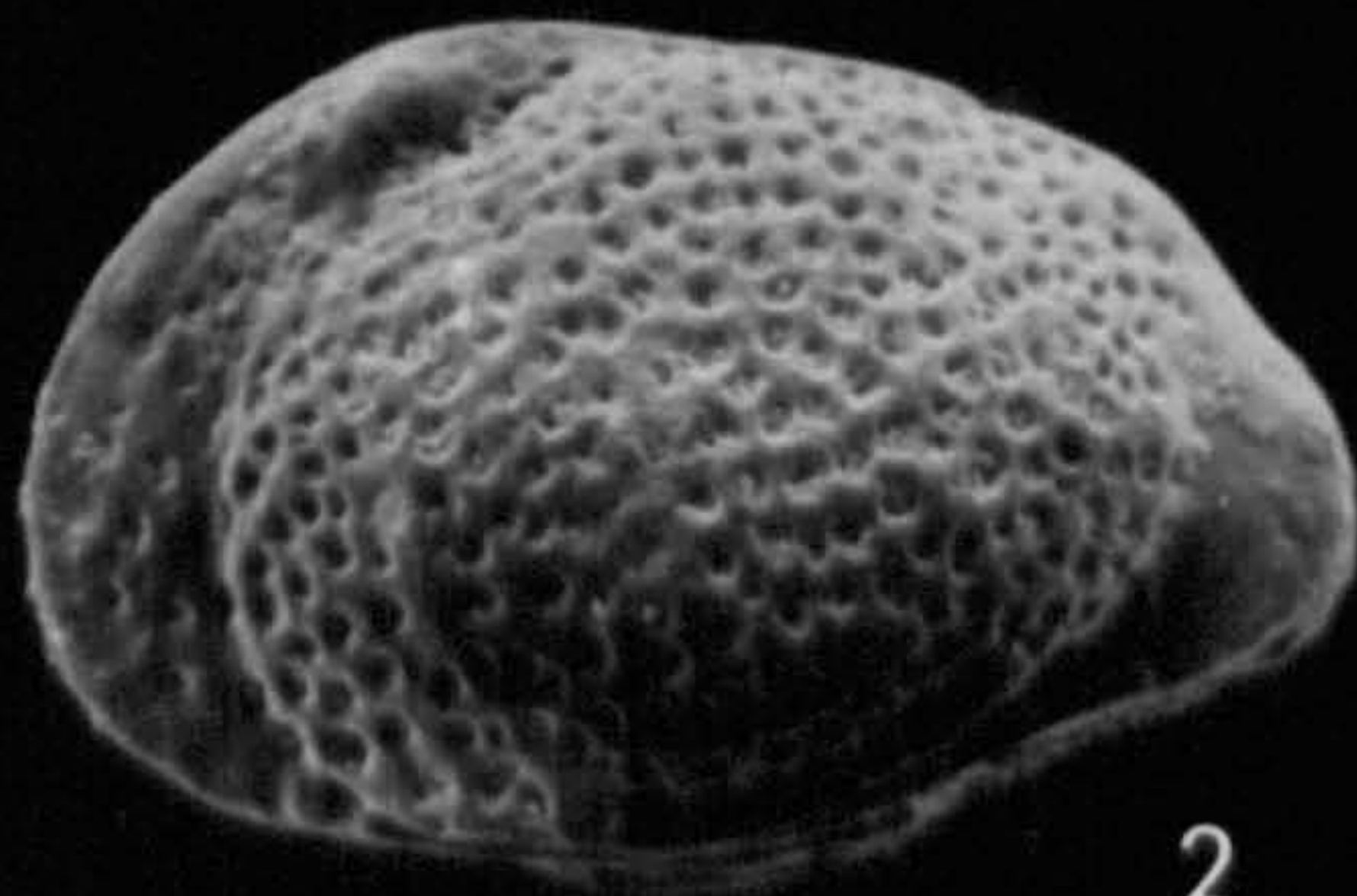
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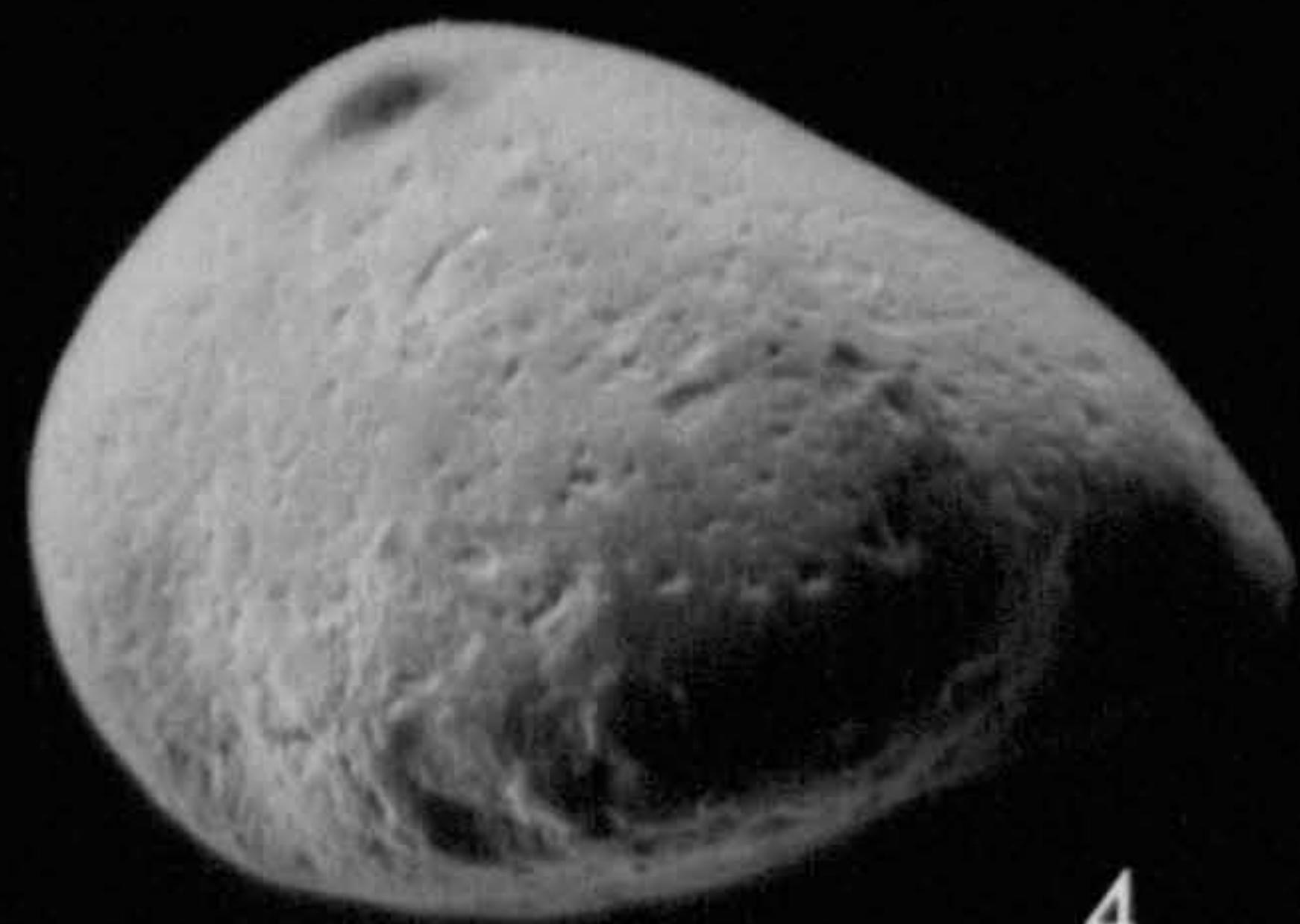
2



4



2



4

EXPLANATION OF PLATE - 19

Brachycythere ibnalnafisi sp. nov.

Fig. 1 - Female carapace, left valve, external, lateral view, (holotype J.T. 117), stereoscopic paired photographs; Safawi Well-1, drilling depth 3170 ft; X66.

Fig. 2- Female carapace, right valve, external, lateral view, (paratype J.T. 116), stereoscopic paired photographs; Safawi Well-1, drilling depth 3170 ft; X67.

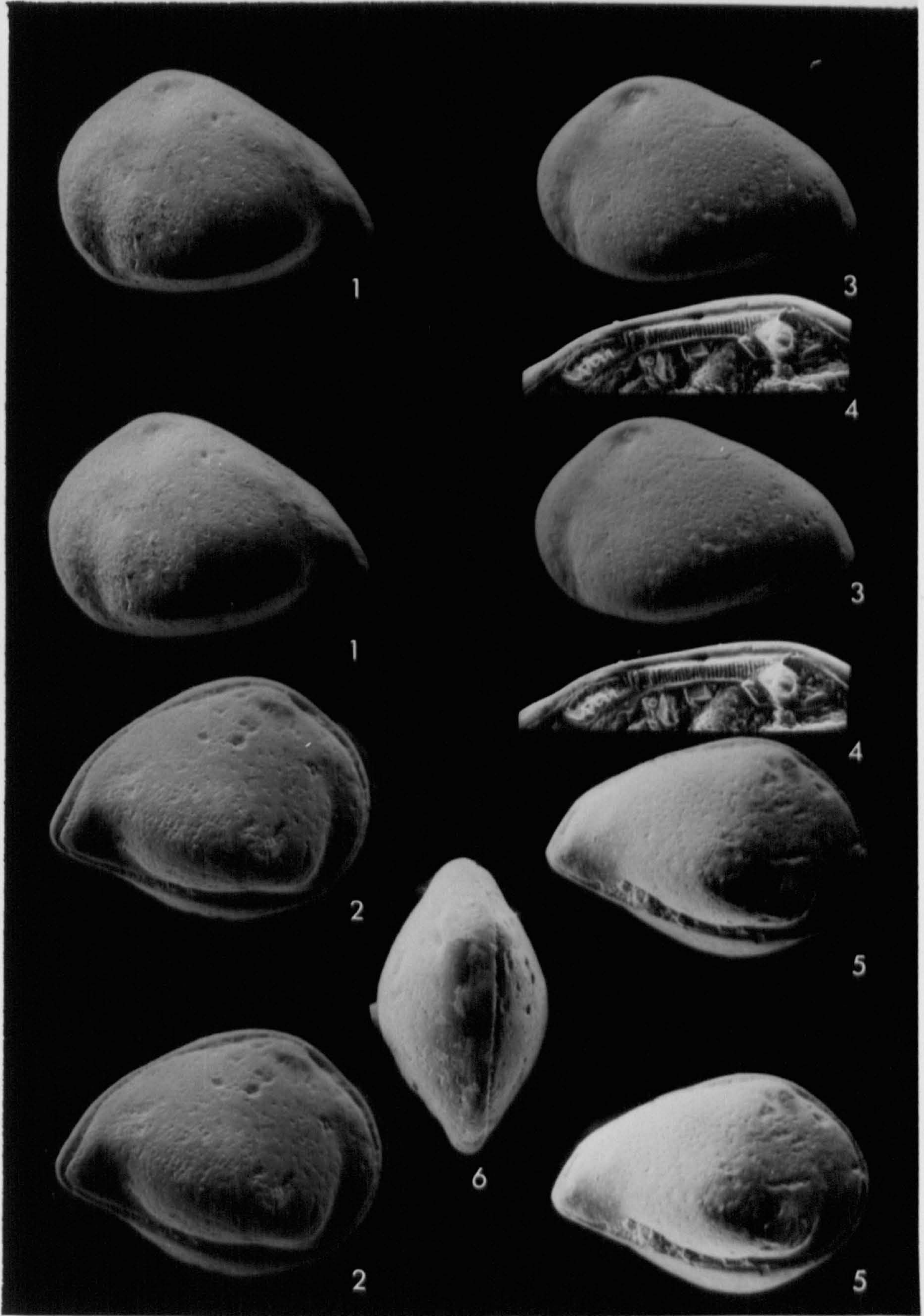
Fig. 3- Male Carapace, left valve, external, lateral view, (paratype J.T. 112), stereoscopic paired photographs; Safawi Well-1, drilling depth 3170 ft; X52.

Fig. 4- Female left valve, internal view, hinge details, (paratype J.T. 119), stereoscopic paired photographs; Kifl Well-2, drilling depth 4395 ft; X67.

Fig. 5- Male carapace, right valve, external, lateral view, (paratype J.T. 112), stereoscopic paired photographs; Safawi Well-1, drilling depth 3170 ft; X52.

Fig. 6- Female carapace, external, dorsal view; (paratype J.T. 116); Safawi Well-1, drilling depth 3170 ft; X60.

PLATE-19



EXPLANATION OF PLATE - 20

Buntonia ibnalbaitari sp. nov.

All specimens from Kifl Well-2.

Fig. 1- Female carapace, left valve, external, lateral view, (holotype J.T. 122), stereoscopic paired photographs; drilling depth 4370 ft; X103.

Fig. 2- Female carapace, right valve, external, lateral view, (paratype J.T. 123), stereoscopic paired photographs; drilling depth 4380 ft; X104.

Fig. 3- Female carapace, left valve, external, lateral view, (paratype J.T. 123), stereoscopic paired photographs; drilling depth 4380 ft, X104.

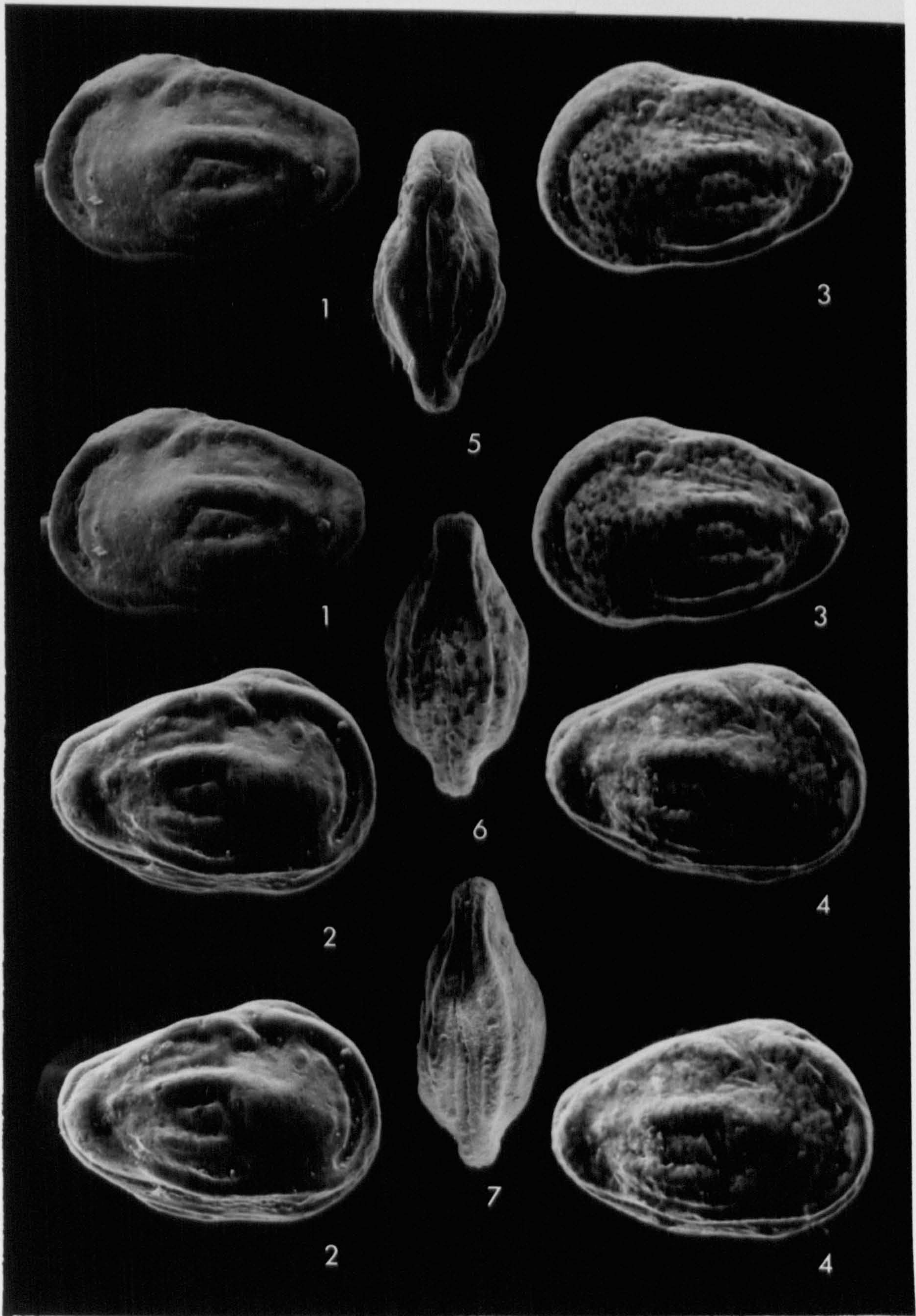
Fig. 4- Female carapace, right valve, external, lateral view, (paratype J.T. 124), stereoscopic paired photographs; drilling depth 4375 ft; X104.

Fig. 5- Female carapace, external, dorsal view, (paratype J.T. 124); drilling depth 4375 ft; X92.

Fig. 6- Female carapace, external, ventral view, (paratype J.T. 123); drilling depth 4380 ft; X90.

Fig. 7- Female carapace, external, ventral view, (paratype J.T. 121); drilling depth 4360 ft; X92.

PLATE-20



EXPLANATION OF PLATE - 21

Buntonia ibnrushdi sp. nov.

All specimens from South Rumaila Well-104.

Fig. 1- Male carapace, left valve, external, lateral view, (holotype J.T. 125), stereoscopic paired photographs; drilling depth 2416 m, X79.

Fig. 2- Male carapace, right valve, external, lateral view, (holotype J.T. 125), stereoscopic paired photographs, drilling depth 2416 m; X81.

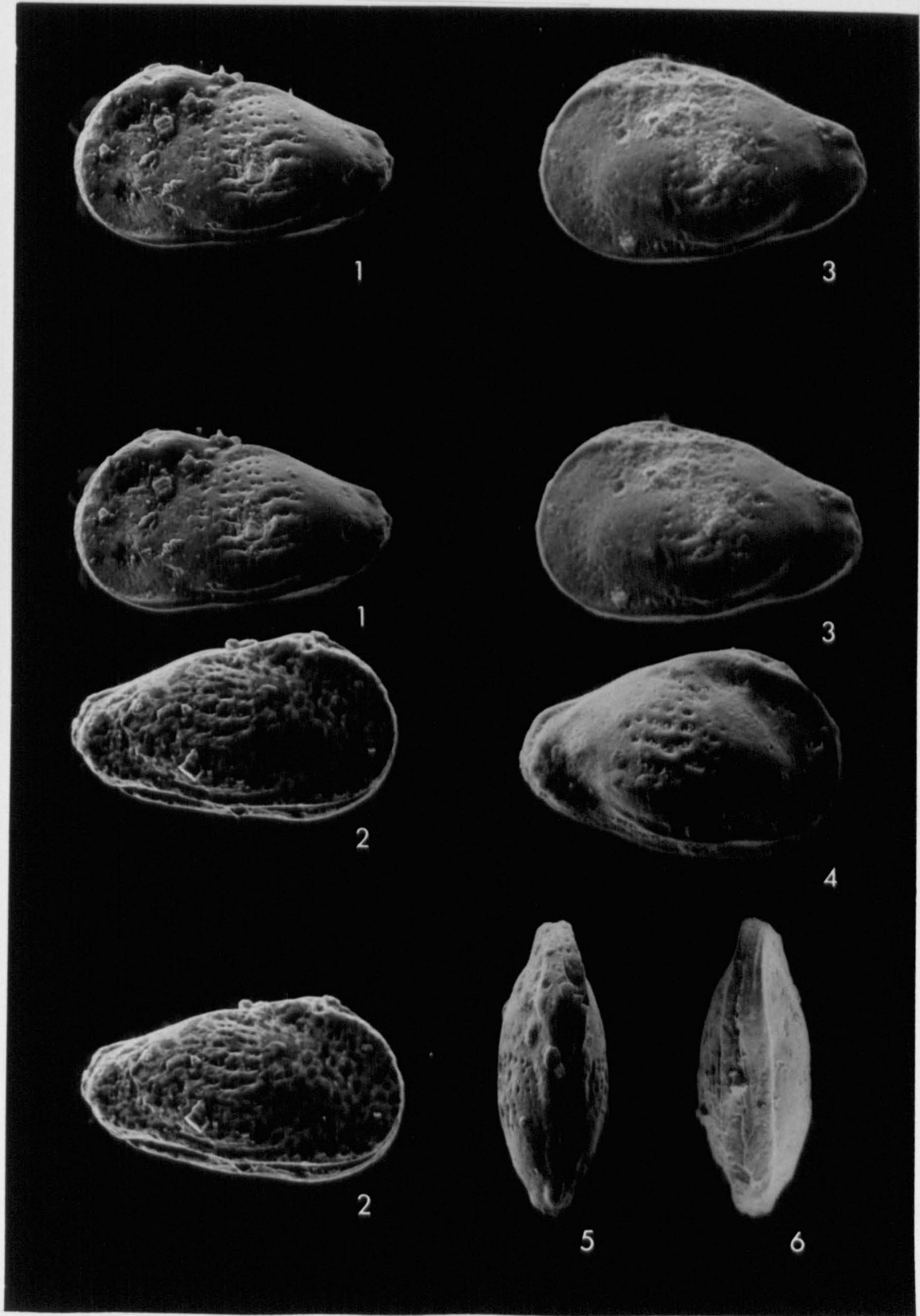
Fig. 3- Female carapace, left valve, external, lateral view, (paratype J.T. 127), stereoscopic paired photographs; drilling depth 2428 m; X95.

Fig. 4- Female carapace, right valve, external, lateral view, (paratype J.T. 127), stereoscopic paired photographs; drilling depth 2428; X94.

Fig. 5- Male carapace, external, dorsal view, (holotype J.T. 125); drilling depth 2416 m; X72.

Fig. 6- Male carapace, external, ventral view, (holotype J.T. 125); drilling depth 2416 m; X73.

PLATE-21



EXPLANATION OF PLATE - 22

Protobuntonia kasibaensis sp. nov.

All specimens from South Rumaila Well-104.

Fig. 1- Female carapace, left valve, external, lateral view, (holotype J.T. 128), stereoscopic paired photographs; drilling depth 2408 m, X79.

Fig. 2- Female carapace, left valve, external, lateral view, (paratype J.T. 129), stereoscopic paired photographs; drilling depth 2406 m; X80.

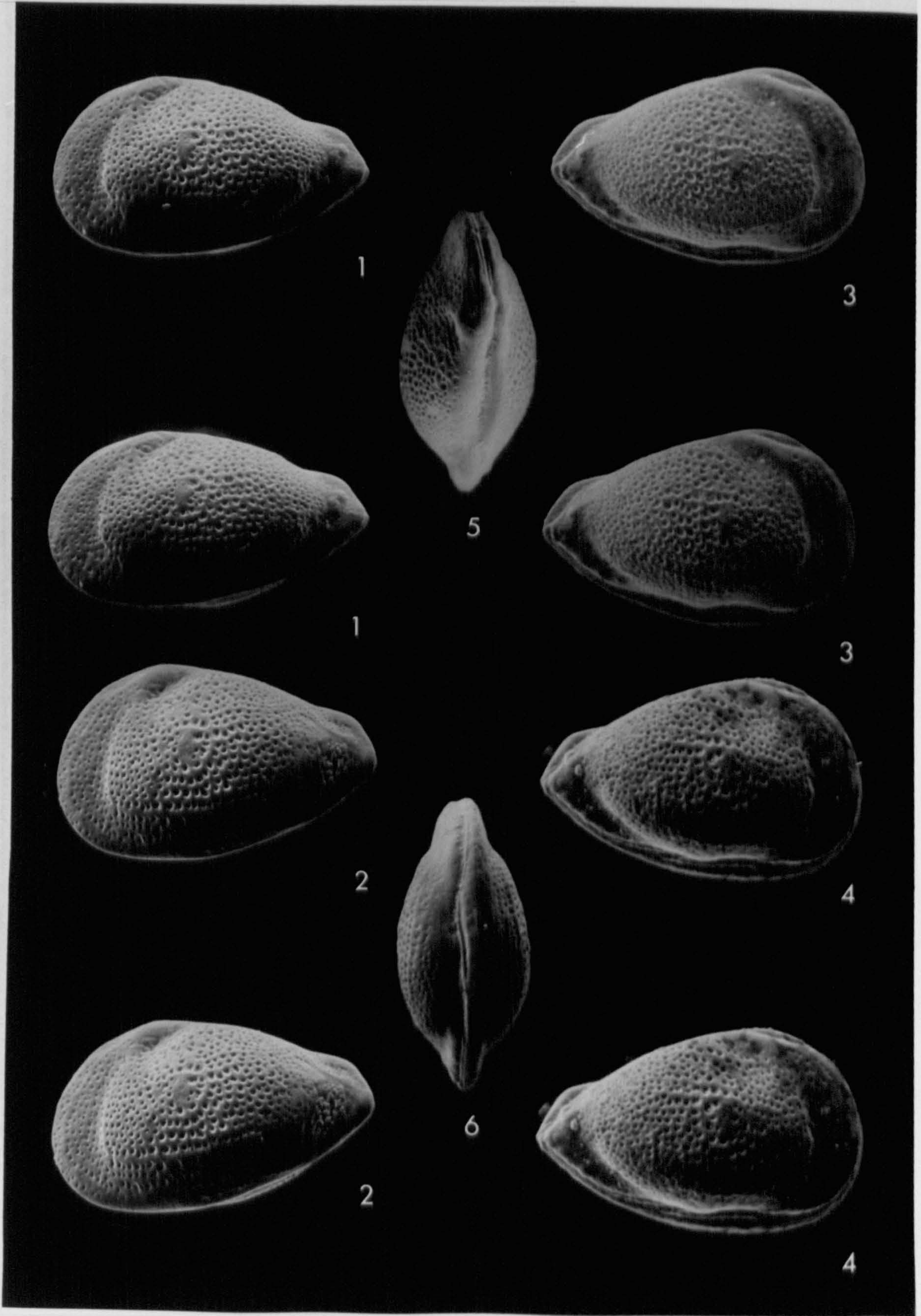
Fig. 3- Female carapace, right valve, external, lateral view, (paratype J.T. 130), stereoscopic paired photographs; drilling depth 2412 m; X82.

Fig. 4- Female carapace, right valve, external, lateral view (paratype J.T. 129), stereoscopic paired photographs; drilling depth 2406 m; X80.

Fig. 5- Female carapace, external, dorsal view, (paratype J.T. 130); drilling depth 2412 m; X74.

Fig. 6- Female carapace, external, ventral view, (paratype J.T. 130); drilling depth 2412 m; X74.

PLATE-22



EXPLANATION OF PLATE - 23

Soudanella ? alkhansai sp. nov.

All specimens from South Rumaila Well-104.

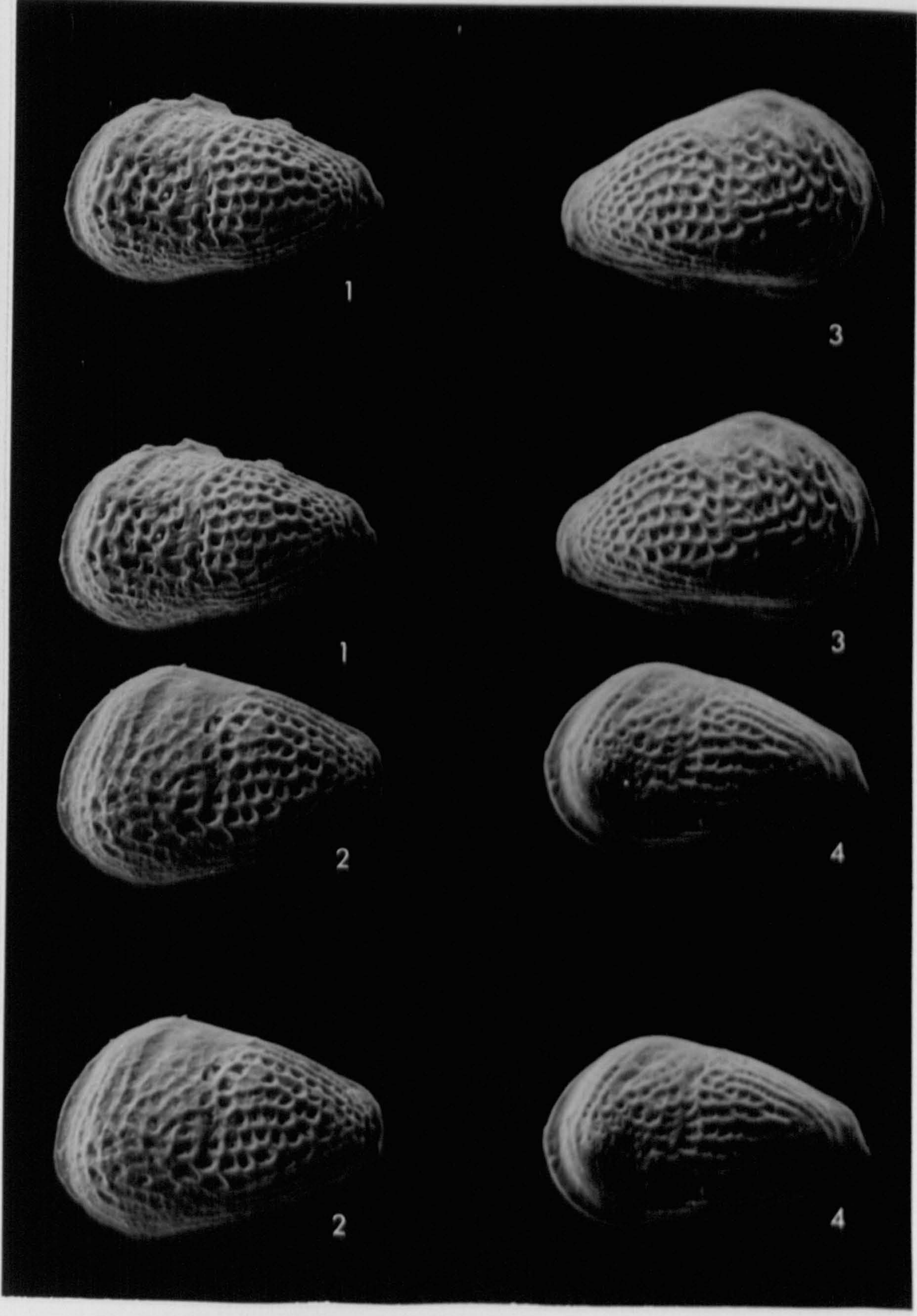
Fig. 1- Male carapace, left valve, external, lateral view, (holotype J.T. 134), stereoscopic paired photographs; drilling depth 2710 m; X90.

Fig. 2- Female carapace, left valve, external, lateral view, (paratype J.T. 136), stereoscopic paired photographs; drilling depth 2660 m; X104.

Fig. 3- Female carapace, right valve, external, lateral view, (paratype J.T. 136), stereoscopic paired photographs; drilling depth 2660 m; X102.

Fig. 4- Male carapace, left valve, external, lateral view, (paratype J.T. 133), stereoscopic paired photographs; drilling depth 2680 m; X93.

PLATE-23



EXPLANATION OF PLATE - 24

Soudanella ? alkhansai sp. nov.

All specimens from South Rumaila Well-104.

Fig. 1- Female carapace, right valve, external, lateral view, (paratype J.T. 137), stereoscopic paired photographs; drilling depth 2662 m; X96.

Fig. 2- Female carapace, left valve, external, lateral view, (paratype J.T. 140), stereoscopic paired photographs; drilling depth 2674 m; X92.

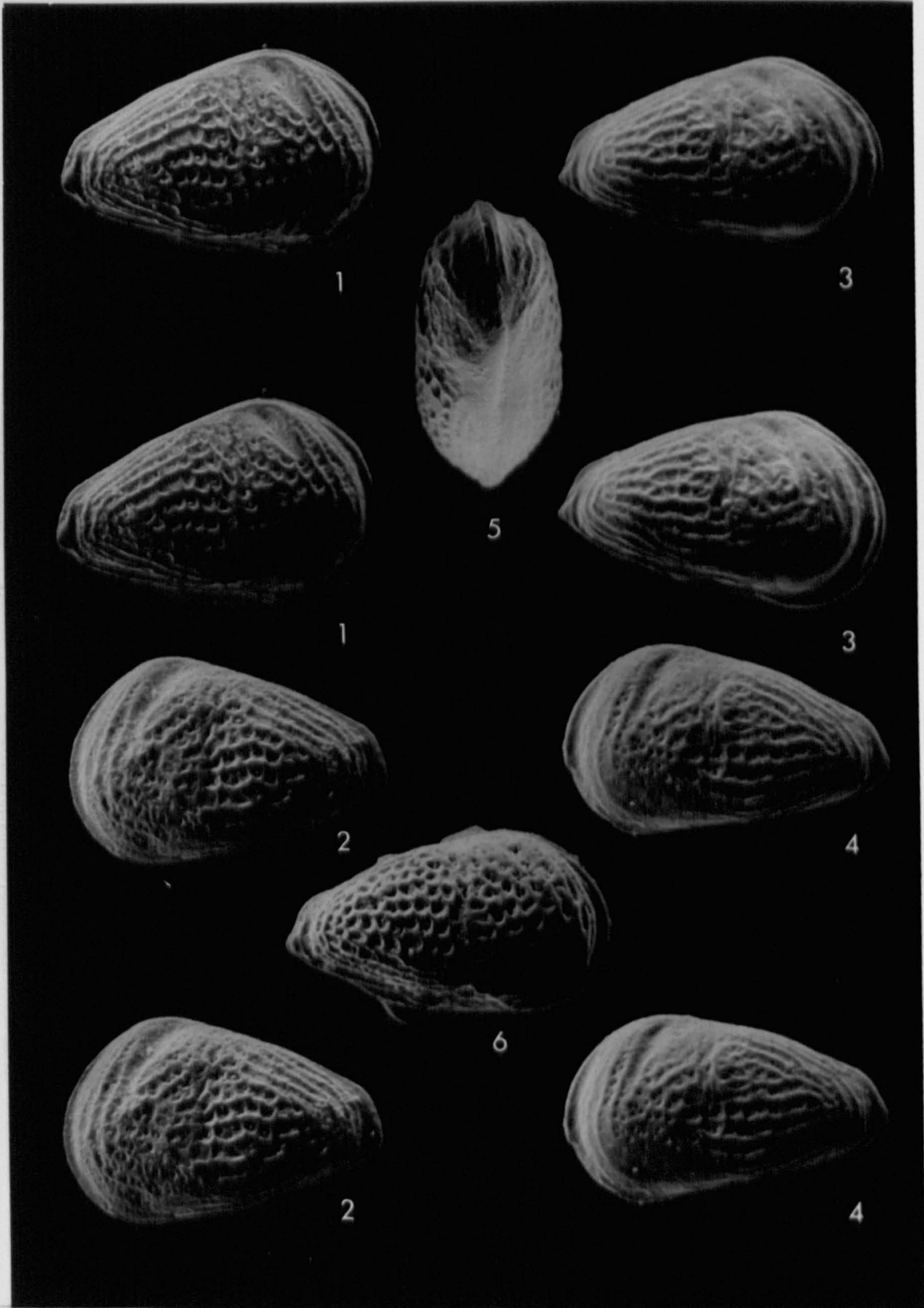
Fig. 3 - Male carapace, right valve, external, lateral view, (paratype J.T. 133), stereoscopic paired photographs; drilling depth 2680 m; X93.

Fig. 4- Male carapace, left valve, external, lateral view, (paratype J.T. 131), stereoscopic paired photographs; drilling depth 2658 m; X96.

Fig. 5- Female carapace, external, dorsal view, (paratype J.T. 136); drilling depth 2660 m; X92.

Fig. 6- Male carapace, right valve, external, lateral view (holotype J.T. 134); drilling depth 2710 m; X91.

PLATE-24



EXPLANATION OF PLATE - 25

Acanthocythereis sp. A

Fig. 1- Carapace, left valve, external, lateral view, (J.T. 141), stereoscopic paired photographs; Ghalaisan Well-1, drilling depth 2421 ft; X73.

Fig. 2- Carapace, right valve, external, lateral view, (J.T. 141), stereoscopic paired photographs; Ghalaisan Well-1, drilling depth 2421 ft; X73.

Fig. 3- Carapace, external, dorsal view, (J.T.141); Ghalaisan Well-1, drilling depth 2421 ft; X64.

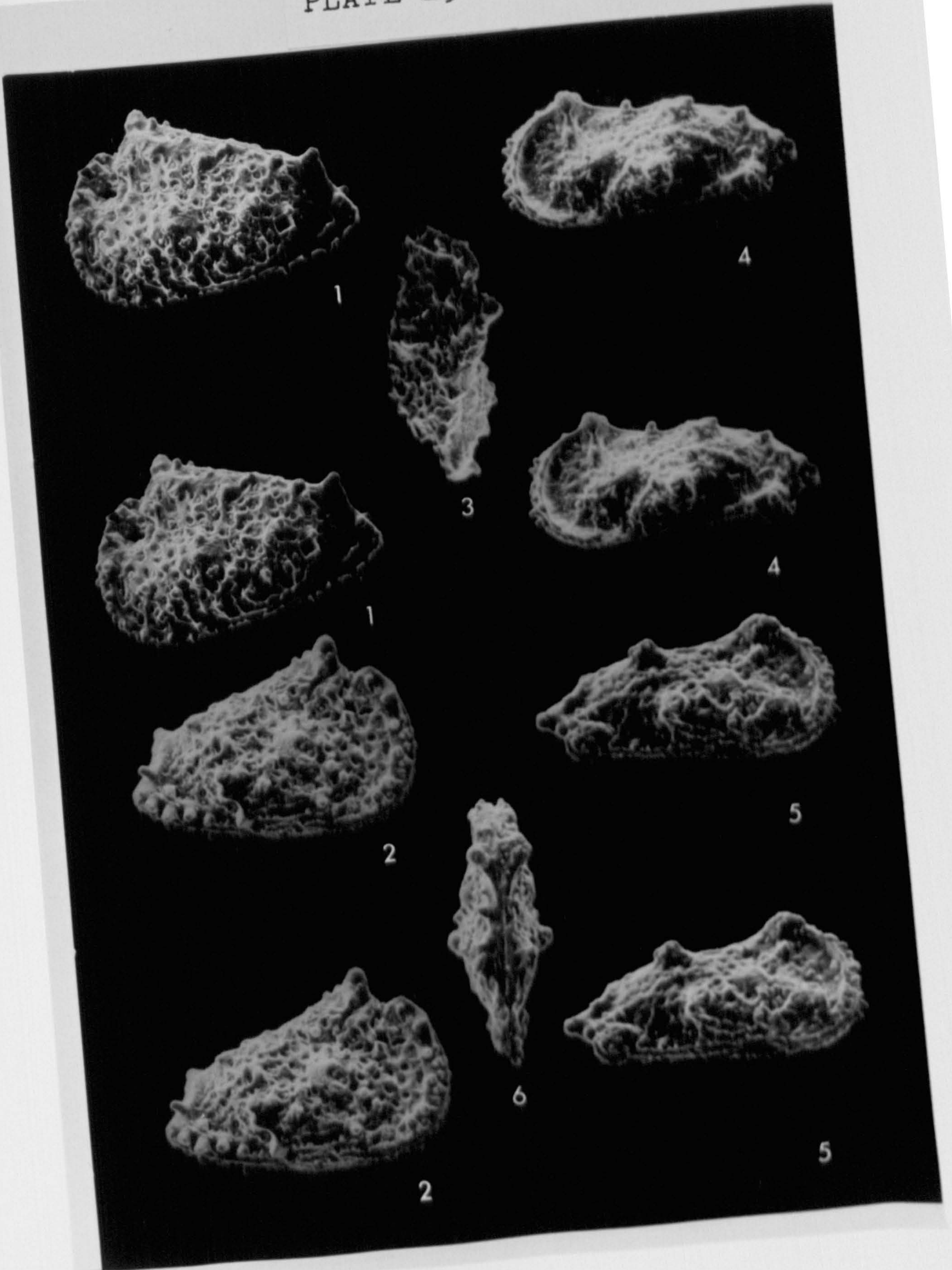
Acanthocythereis sp. B

Fig. 4- Carapace, left valve, external, lateral view, (J.T. 142), stereoscopic paired photographs; South Rumaila Well-104, drilling depth 2358 m; X57.

Fig. 5- Carapace, right valve, external, lateral view, (J. T. 142), stereoscopic paired photographs; South Rumaila Well-104, drilling depth 2358 m; X59.

Fig. 6- Carapace, external, dorsal view, (J.T. 142); South Rumaila Well-104, drilling depth 2358 m; X51.

PLATE-25



EXPLANATION OF PLATE - 26

All specimens from South Rumaila Well-104.

Acanthocythereis ibnbattutai sp. nov.

Fig. 1- Female carapace, left valve, external, lateral view, (holotype J.T. 145), stereoscopic paired photographs; drilling depth 2428 m; X92.

Fig. 2- Female carapace, right valve, external, lateral view, (holotype J.T. 145), stereoscopic paired photographs; drilling depth 2428 m; X87.

Fig. 3- Female carapace, left valve, external, lateral view, (paratype J.T. 144), stereoscopic paired photographs; drilling depth 2398 m; X106.

Fig. 4- Female carapace, right valve, external, lateral view, (paratype J.T. 144); drilling depth 2398 m; X104.

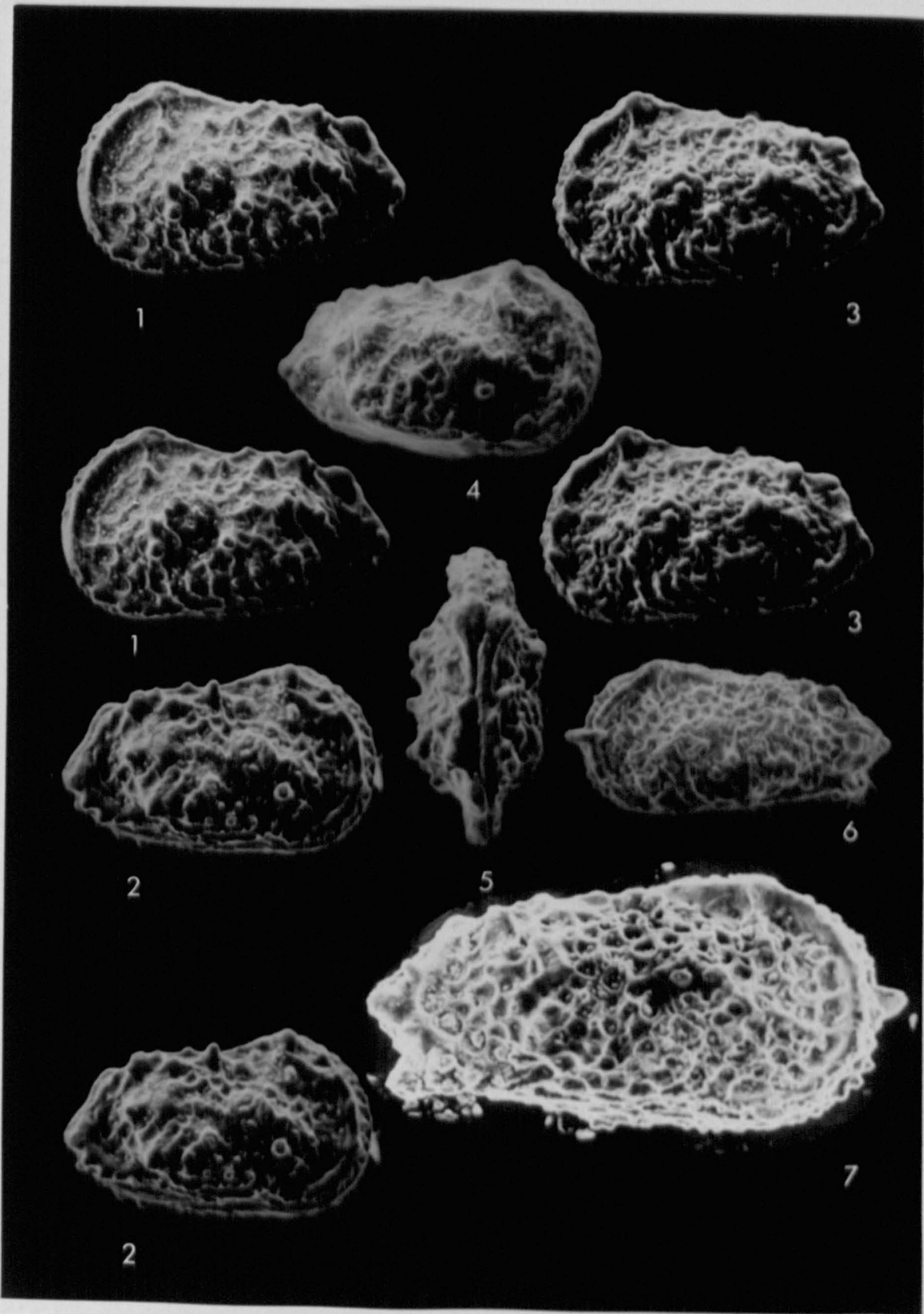
Fig. 5- Female carapace, external, dorsal view, (holotype J.T. 145), drilling depth 2428 m; X81.

Acanthocythereis aff. ibnbattutai sp. nov.

Fig. 6- Male carapace, left valve, external, lateral view, (J.T. 148); drilling depth 2379 m; X97.

Fig. 7- Male carapace, right valve, external, lateral view, (J.T. 148); drilling depth 2379 m; X133.

PLATE-26



EXPLANATION OF PLATE - 27

Acanthocythereis ibnkhaleduni sp. nov.

Fig. 1- Carapace, left valve, external, lateral view, (holotype J.T. 149), stereoscopic paired photographs; South Rumaila Well-104, drilling depth 2428 m; X60.

Fig. 2- Carapace, right valve, external, lateral view, (holotype J.T. 149), stereoscopic paired photographs; South Rumaila Well-104, drilling depth 2428 m; X57.

Fig. 3- Carapace, external, dorsal view, (holotype J.T. 149); South Rumaila Well-104, drilling depth 2428 m; X51.

Acanthocythereis musabnnusairi sp. nov.

Fig. 4- Male carapace, left valve, external, lateral view, (holotype J.T. 151), stereoscopic paired photographs; Kifl Well-2, drilling depth 4350 ft; X77.

Fig. 5- Female carapace, right valve, external, lateral view, (paratype J.T. 153); Kifl Well-2, drilling depth 4370 ft; X90.

Fig. 6- Female carapace, left valve, external, lateral view, (paratype J.T. 153), stereoscopic paired photographs; Kifl Well-2, drilling depth 4370 ft; X90.

Fig. 7- Male carapace, right valve, external, lateral view, (holotype J.T. 151); Kifl Well-2, drilling depth 4350 ft; X77.

Fig. 8- Male carapace, external, dorsal view, (holotype J.T. 151); Kifl Well-2, drilling depth 4350 ft; X69.

Fig. 9- Female carapace, external, ventral view, (paratype J.T. 153); Kifl Well-2, drilling depth 4370 ft; X80.

PLATE-27



EXPLANATION OF PLATE - 28

Acanthocythereis mustansariya sp. nov.

All specimens from Ghalaisan Well-1.

Fig. 1- Female carapace, left valve, external, lateral view, (holotype J.T. 154), stereoscopic paired photographs; drilled depth 3720 ft; X88.

Fig. 2- Male carapace, right valve, external, lateral view, (paratype J.T. 156), stereoscopic paired photographs; drilling depth 3720 ft; X74.

Fig. 3- Female carapace, left valve, external, lateral view, (paratype J.T. 155), stereoscopic paired photographs; drilling depth 4085 ft; X83.

Fig. 4- Male carapace, left valve, external, lateral view, (paratype J.T. 161); drilling depth 4180 ft; X65.

Fig. 5- Female carapace, right valve, external, lateral view, (holotype J.T. 154), stereoscopic paired photographs; drilling depth 3720 ft; X89.

Fig. 6- Male carapace, right valve, external, lateral view, (paratype J.T. 161), stereoscopic paired photographs; drilling depth 4180 ft; X67.

Fig. 7- Male carapace, left valve, external, lateral view, (paratype J.T. 156), stereoscopic paired photographs; drilling depth 3720 ft; X74.

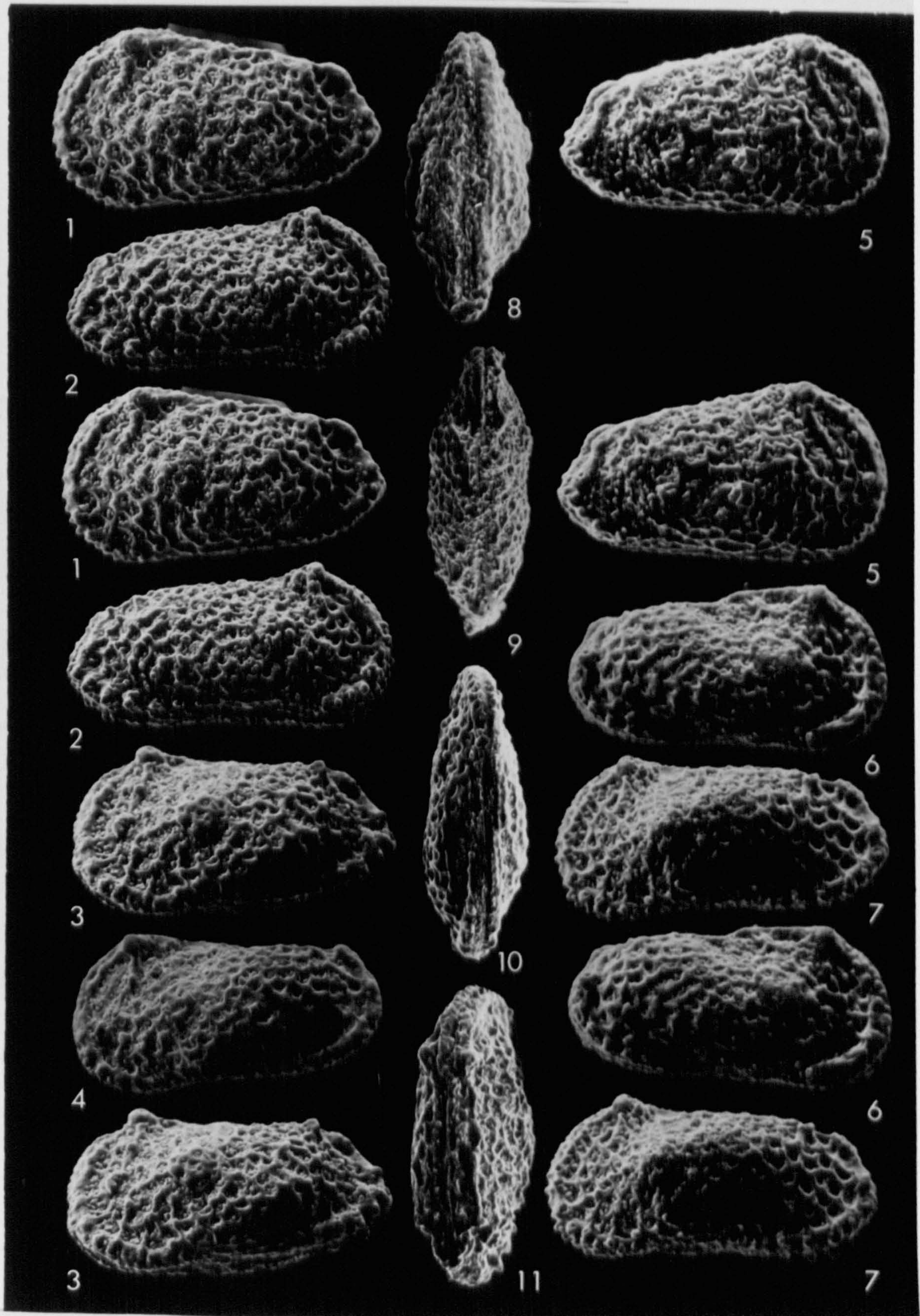
Fig. 8- Female carapace, external, ventral view, (paratype J.T. 155); drilling depth 4085 ft; X74.

Fig. 9- Male carapace, external, dorsal view, (paratype J.T. 157); drilling depth 4325 ft; X66.

Fig. 10- Male carapace, external, ventral view, (paratype J.T. 161); drilling depth 4180 ft; X60.

Fig. 11- Male carapace, external, dorsal view, (paratype J.T. 156); drilling depth 3720 ft; X72.

PLATE-28



EXPLANATION OF PLATE - 29

Archeocosta alkazwini Al-Bashir and Keen, 1984.

All specimens from South Rumaila Well-104.

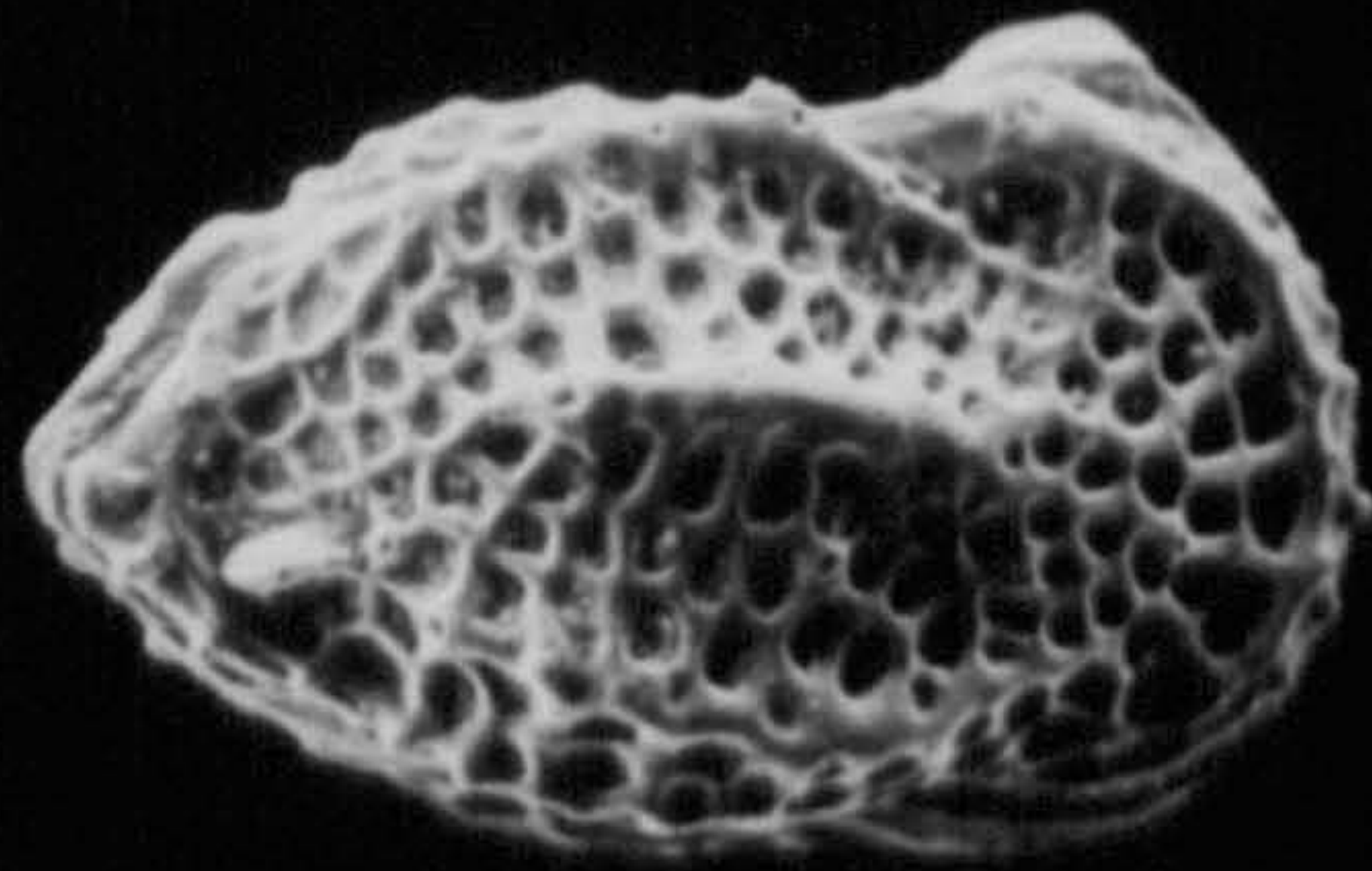
Fig. 1- Female carapace, right valve, external, lateral view, (paratype OS 12293), stereoscopic paired photographs; drilling depth 2386 m; X94.

Fig. 2- Female carapace, left valve, external, lateral view, (paratype OS 12296), stereoscopic paired photographs; drilling depth 2412 m; X88.

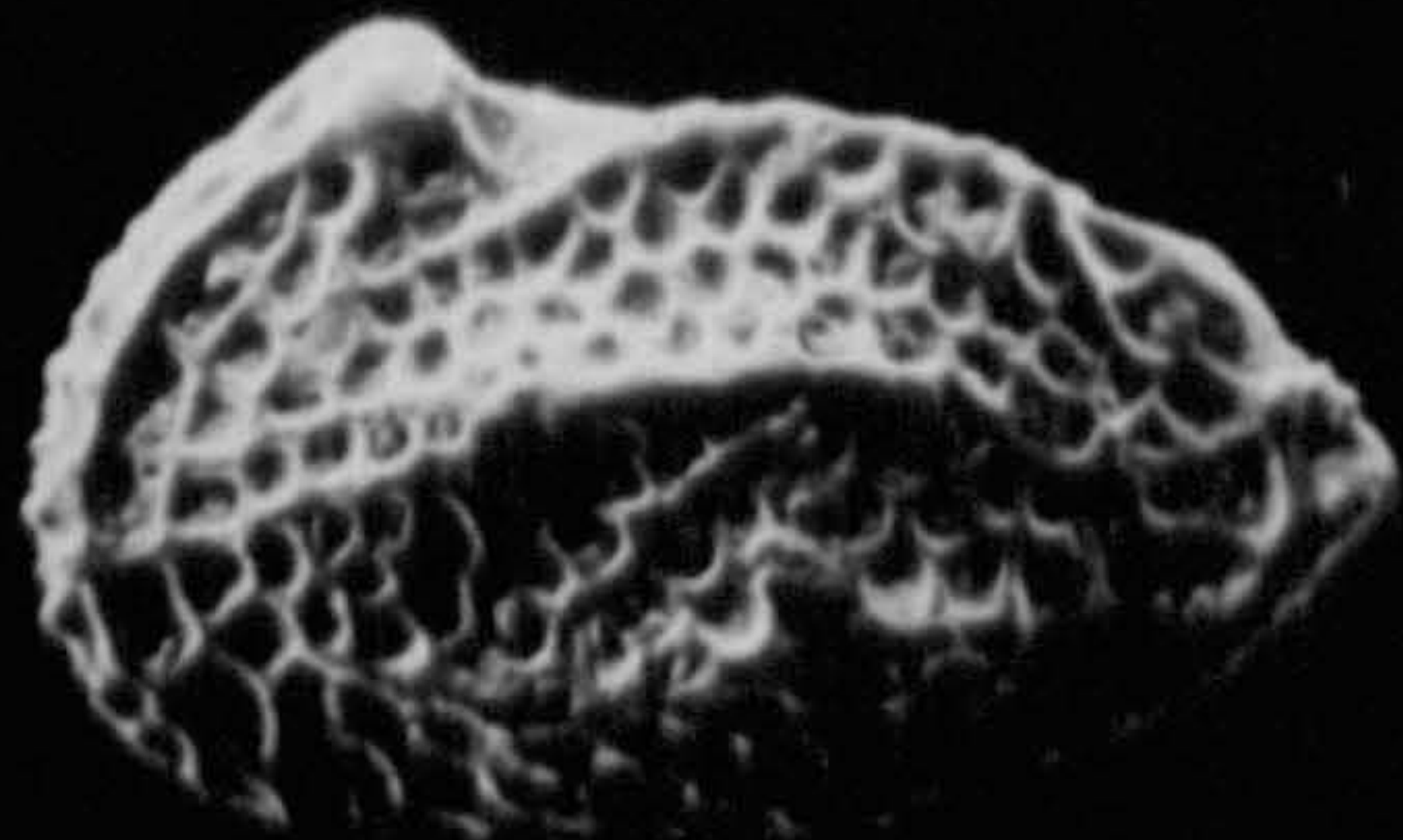
Fig. 3- Female carapace, left valve, external, lateral view, (paratype OS 12297), stereoscopic paired photographs; drilling depth 2416 m; X81.

Fig. 4- Female carapace, right valve, external, lateral view, (holotype OS 12294), stereoscopic paired photographs; drilling depth 2386 m; X82.

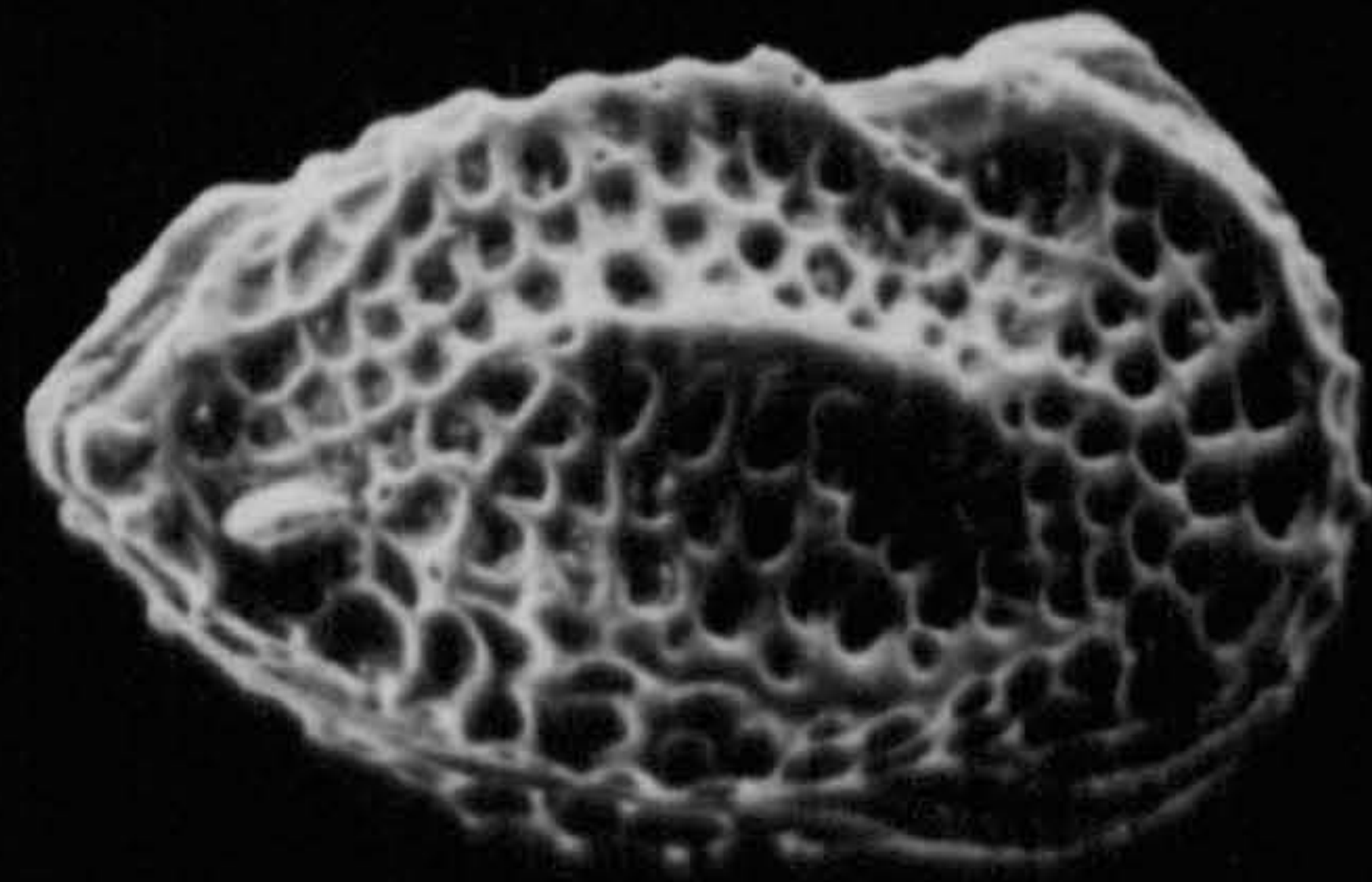
PLATE-29



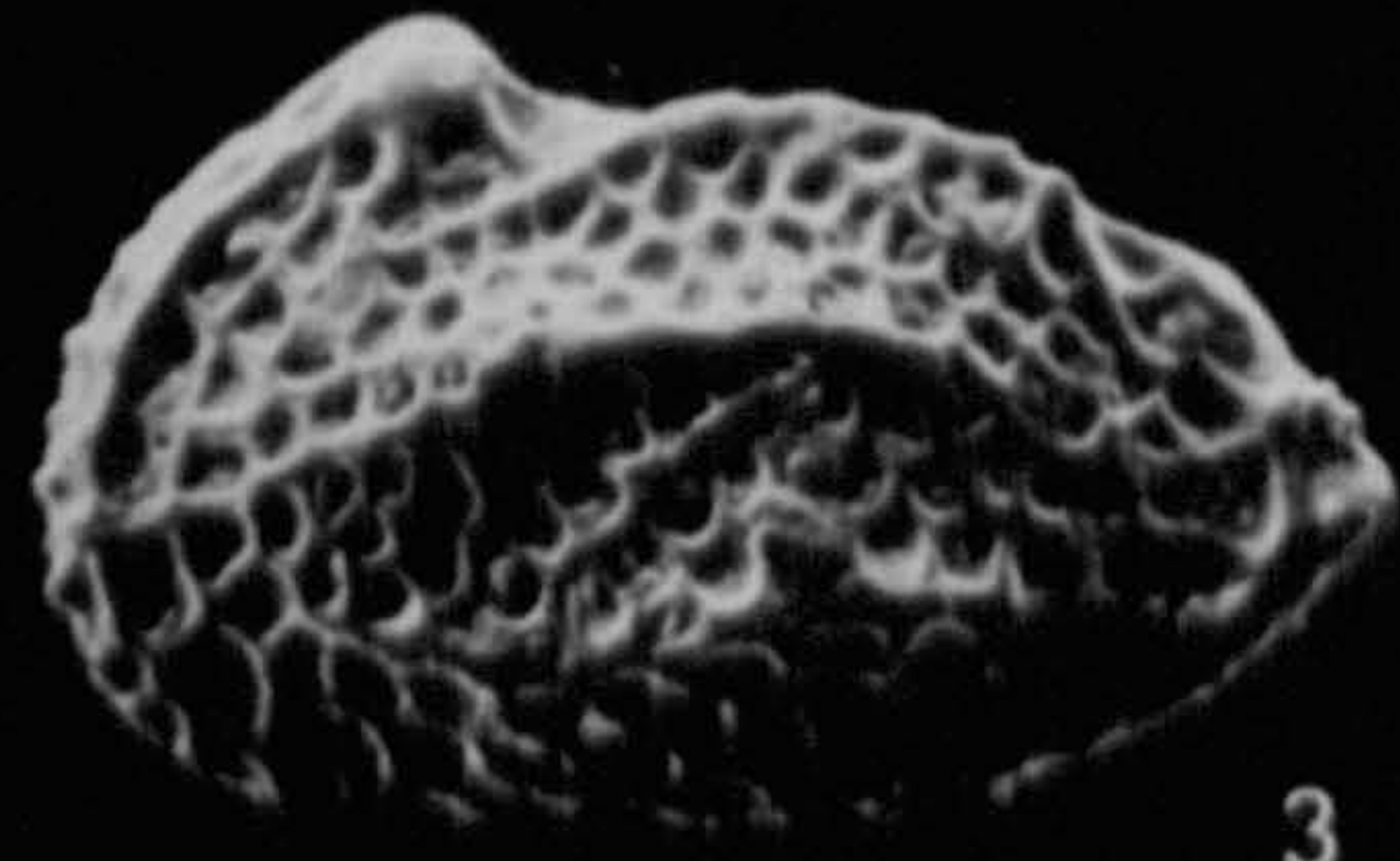
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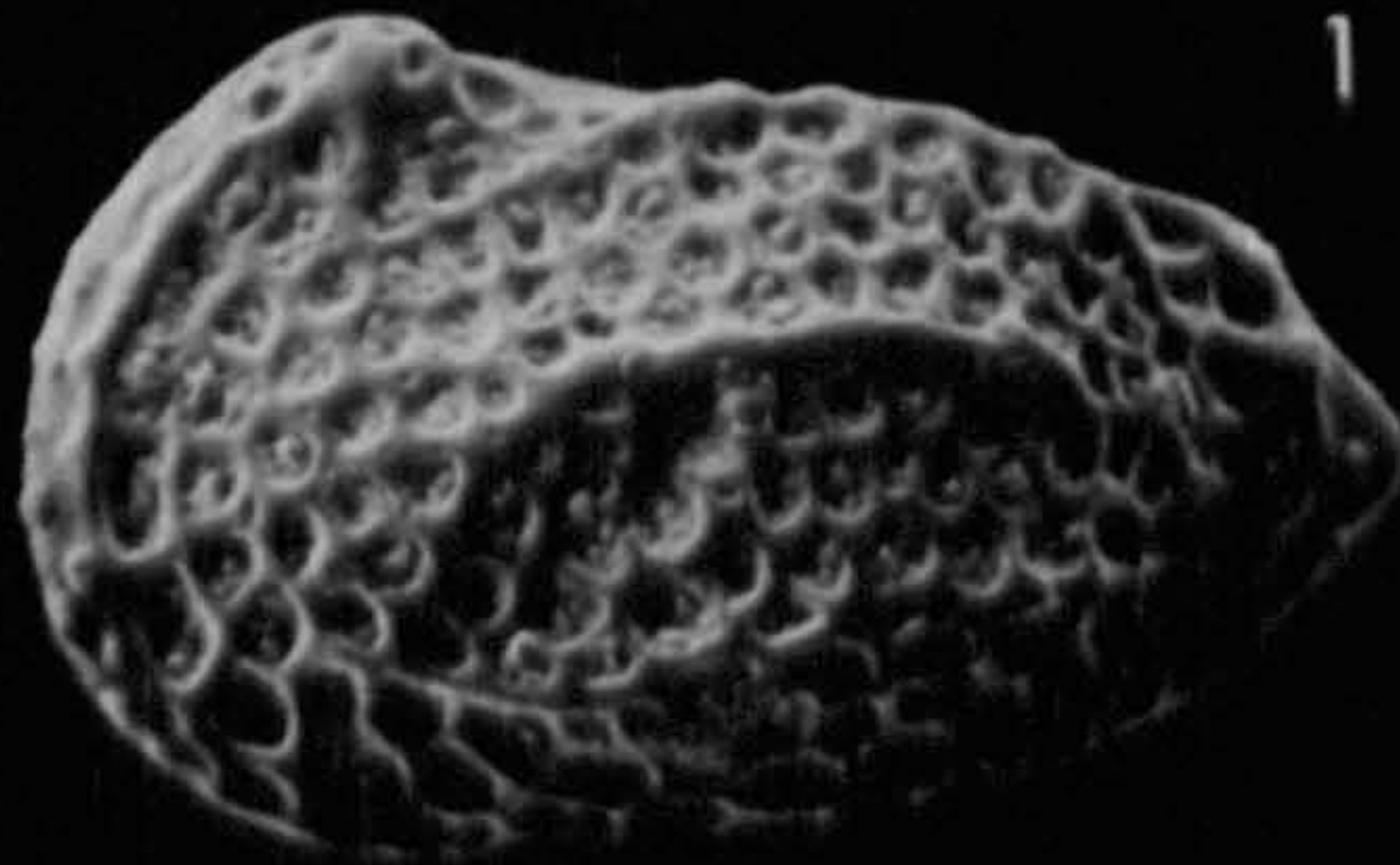
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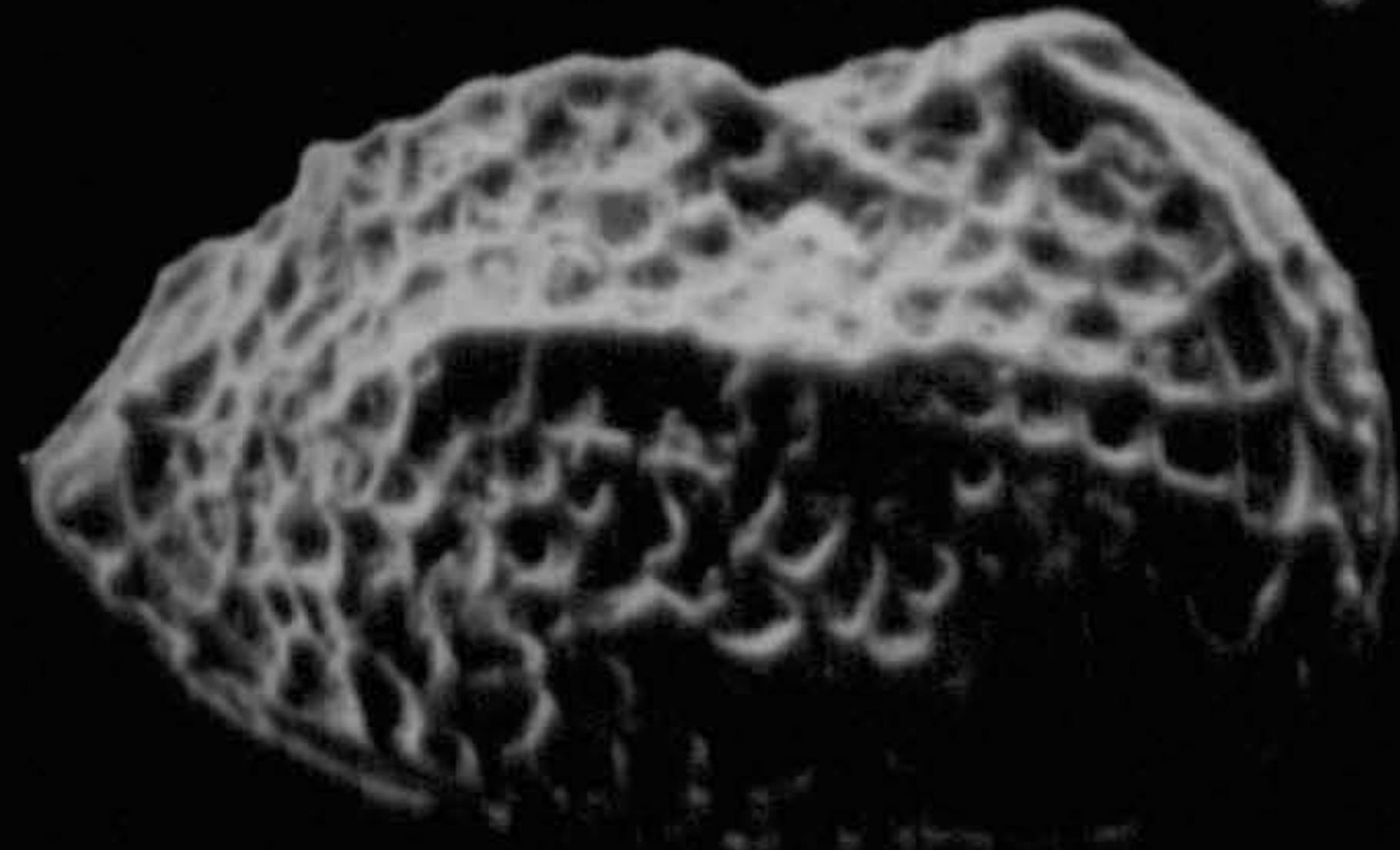
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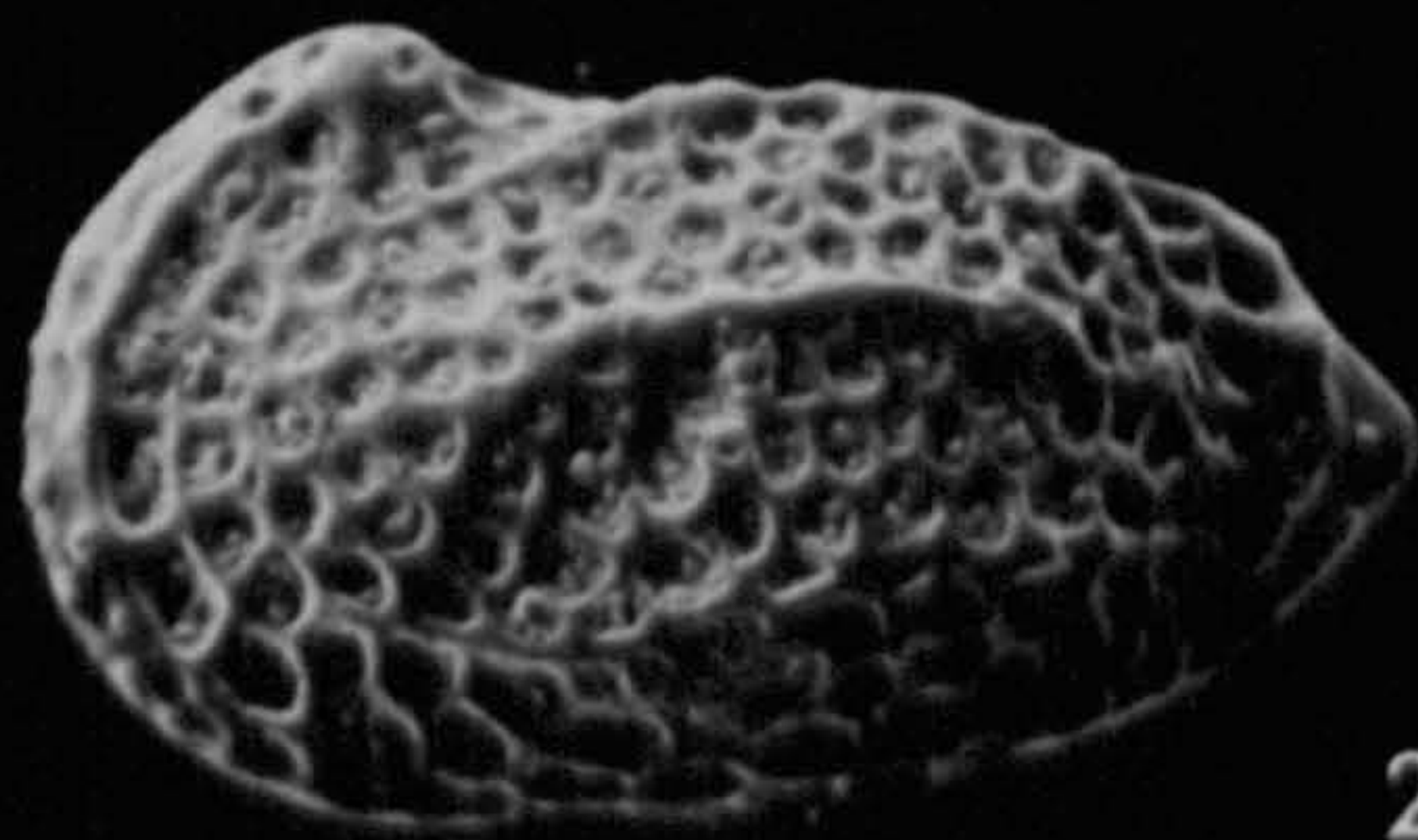
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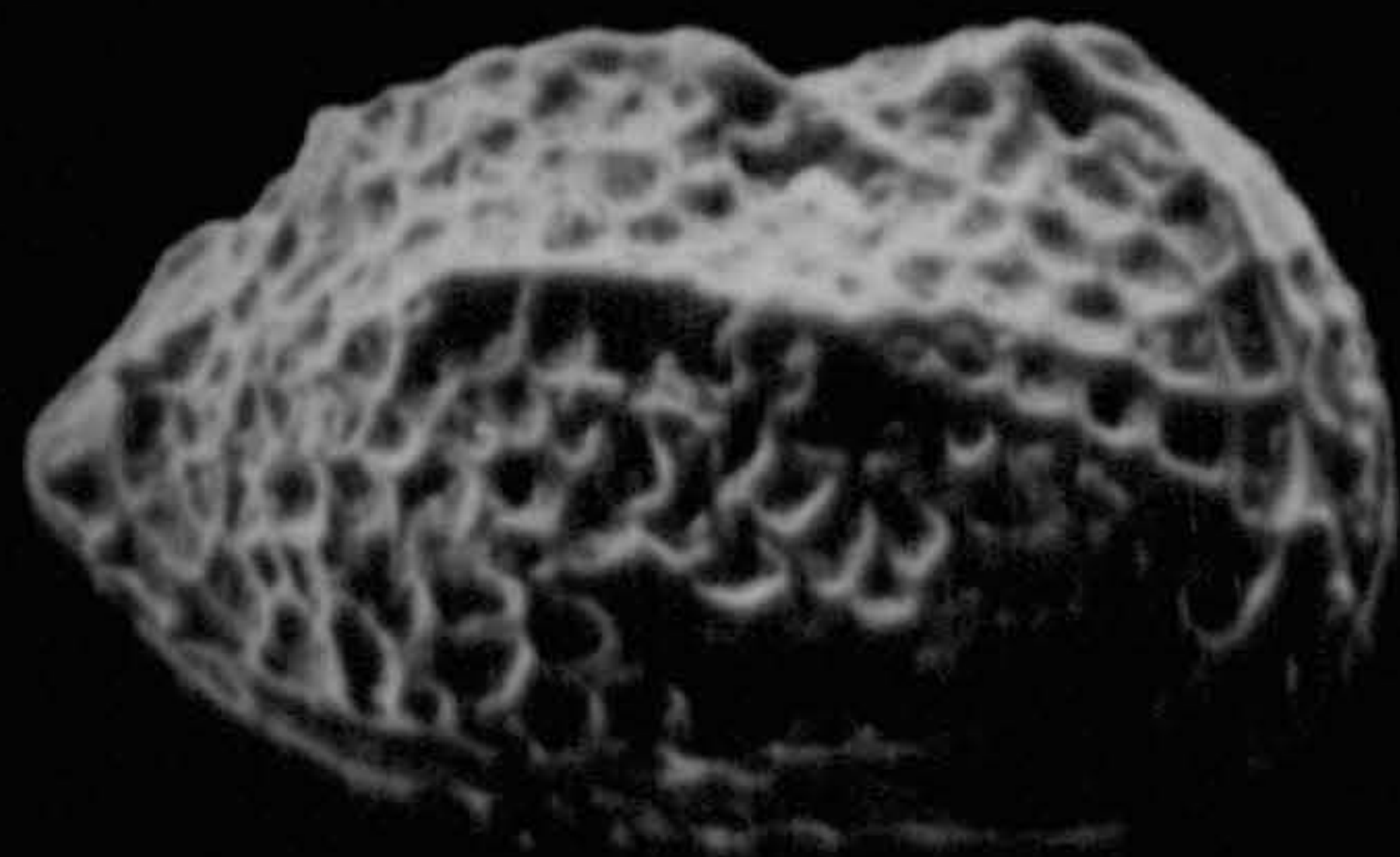
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4

EXPLANATION OF PLATE - 30

Archeocosta alkazwinii Al-Bashir and Keen, 1984

Fig. 1- Female carapace, right valve, external, lateral view, (paratype OS 12295), stereoscopic paired photographs; South Rumaila Well-104, drilling depth 2414 m; X82.

Fig. 2- Male carapace, left valve, external, lateral view, (paratype OS 12301), stereoscopic paired photographs; South Rumaila Well-104, drilling depth 2424 m; X69.

Fig. 3- Male carapace, right valve, external, lateral view, (paratype OS 12304), stereoscopic paired photographs; Kifl Well-2, drilling depth 4420 ft; X79.

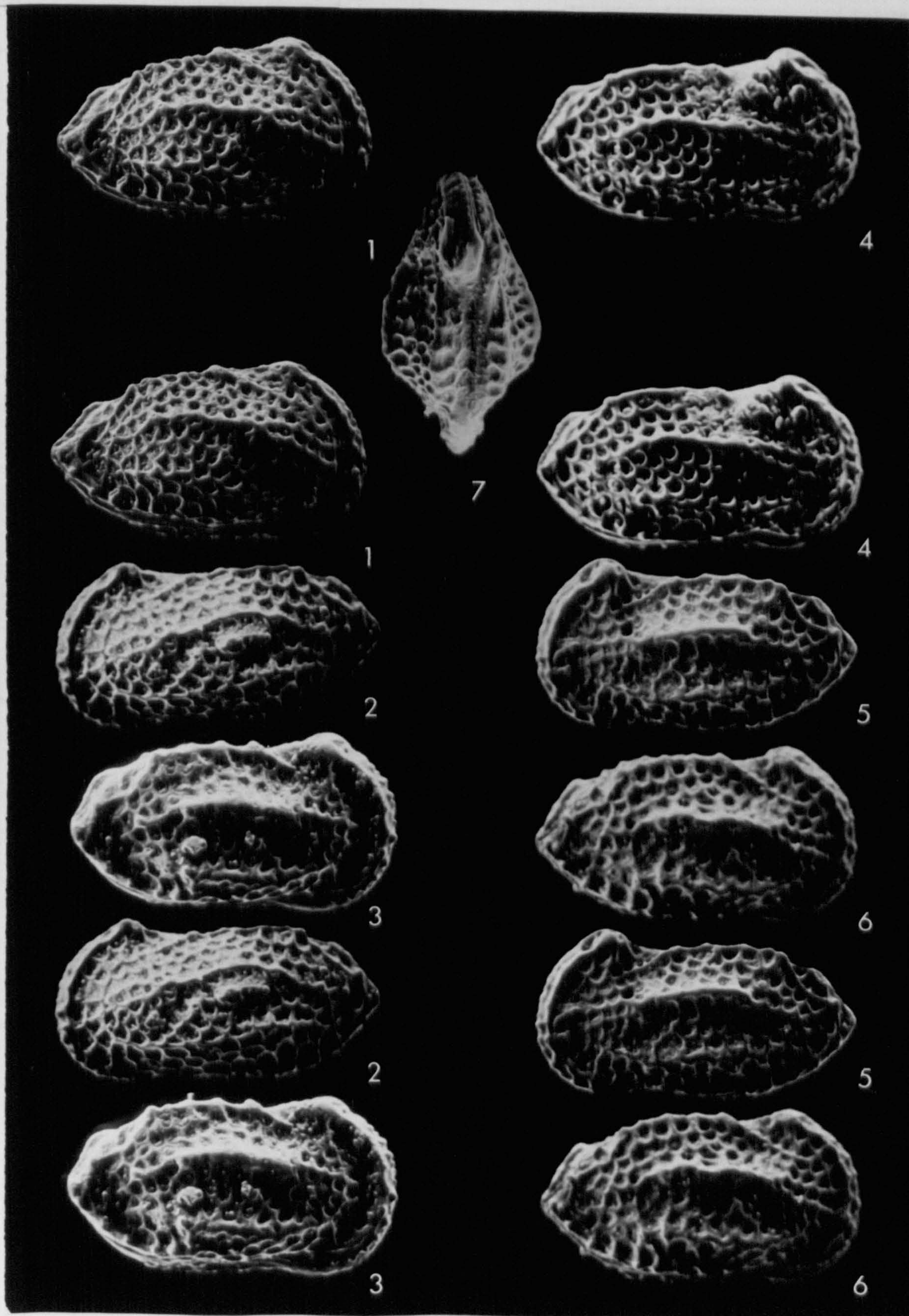
Fig. 4- Male carapace, right valve, external, lateral view, (paratype OS 12299), stereoscopic paired photographs; South Rumaila Well-104, drilling depth 2392 m; X71.

Fig. 5- Male carapace, left valve, external, lateral view, (paratype OS 12305), stereoscopic paired photographs; South Rumaila Well-104, drilling depth 2400 m; X75.

Fig. 6- Male carapace, right valve, external, lateral view, (paratype OS 12303), stereoscopic paired photographs; South Rumaila Well-104, drilling depth 2362 m; X74.

Fig. 7- Female carapace, external, dorsal view, (paratype OS 12293); South Rumaila Well-1-4, drilling depth 2386 m; X83.

PLATE-30



EXPLANATION OF PLATE - 31

Archeocosta alkazwini Al-Bashir and Keen, 1984.

All specimens from South Rumaila Well-104.

Fig. 1- Female left valve, internal, lateral view, (paratype OS 12308), stereoscopic paired photographs; drilling depth 2414 m; X81.

Fig. 2- Female right valve, internal, lateral view, (paratype OS 12307), stereoscopic paired photographs; drilling depth 2416 m; X77.

Fig. 3- Male carapace, left valve, external, lateral view, (paratype OS 12306), stereoscopic paired photographs; drilling depth 2348 m; X74.

Fig. 4- Male carapace, left valve, external, lateral view, (paratype OS 12300), stereoscopic paired photographs; drilling depth 2348 m; X71.

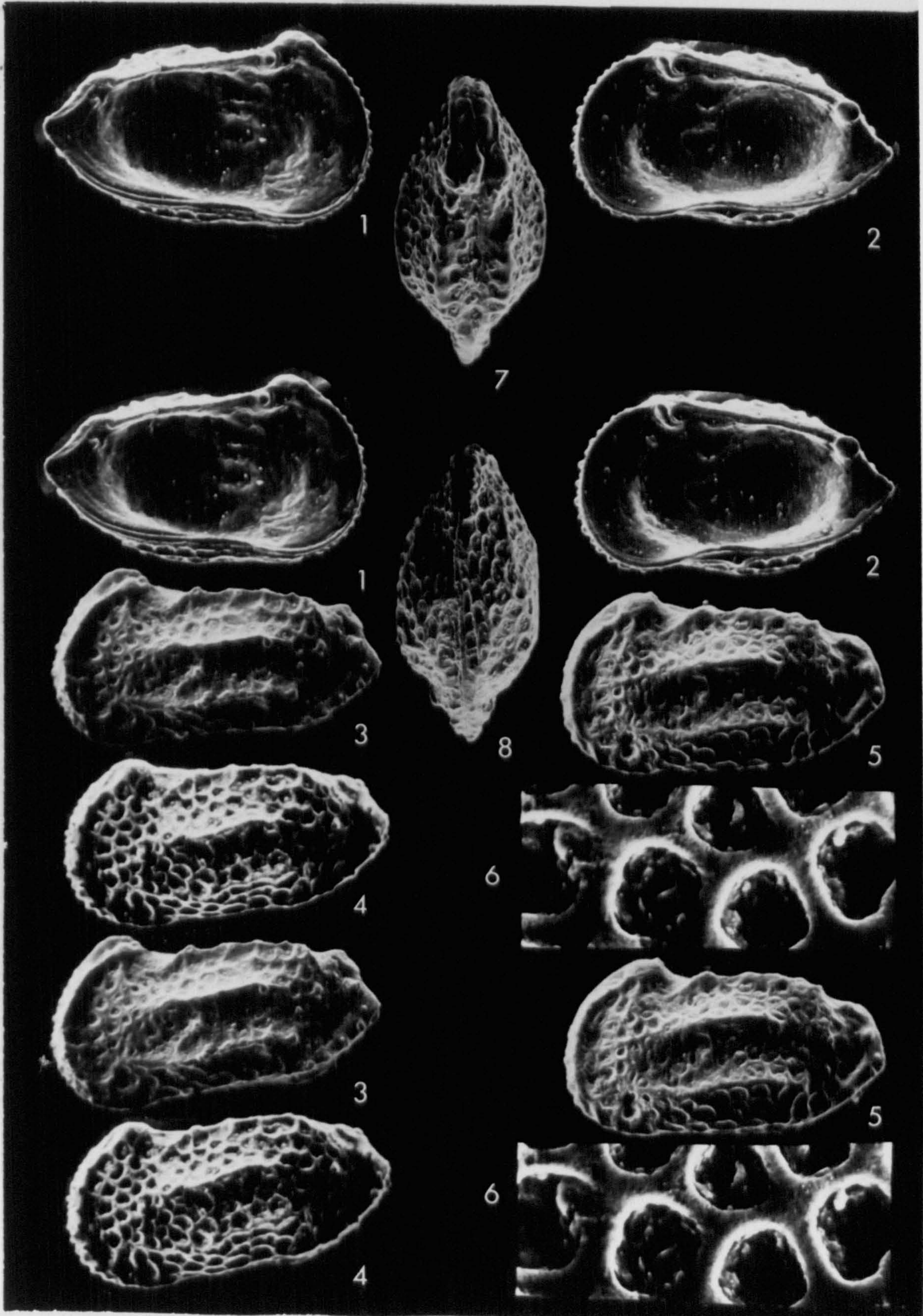
Fig. 5- Male carapace, left valve, external, lateral view, (paratype OS 12302), stereoscopic paired photographs; drilling depth 2342 m; X80.

Fig. 6- Male carapace, external, surface reticulation, (paratype OS 12299), stereoscopic paired photographs; drilling depth 2392 m; X81.

Fig. 7- Female carapace, external, dorsal view, (paratype OS 12309); drilling depth 2392 m; X71.

Fig. 8- Female carapace, external, ventral view, (paratype OS 12310); drilling depth 2386 m; X72.

PLATE-31



EXPLANATION OF PLATE - 32

Curfsina alkarkhii sp. nov.

All specimens from South Rumaila Well-104.

Fig. 1- Carapace, right valve, external, lateral view, (holotype J.T. 194), stereoscopic paired photographs; drilling depth 2348 m; X75.

Fig. 2- Carapace, left valve, external, lateral view, (holotype J.T. 194); drilling depth 2348 m; X78.

Fig. 3- Carapace, external, anterolateral view, (holotype J.T. 194); drilling depth 2348 m; X89.

Fig. 4- Carapace, external, posterolateral view, (holotype J.T. 194); drilling depth 2348 m; X89.

Fig. 5- Carapace, external, Surface ornamentation and subcentral tubercle, (holotype J.T. 194); drilling depth 2348 m; X92.

Fig. 6- Carapace, external, dorsal view, (holotype J.T. 194); drilling depth 2348 m; X69.

Cythereis alantakii sp. nov.

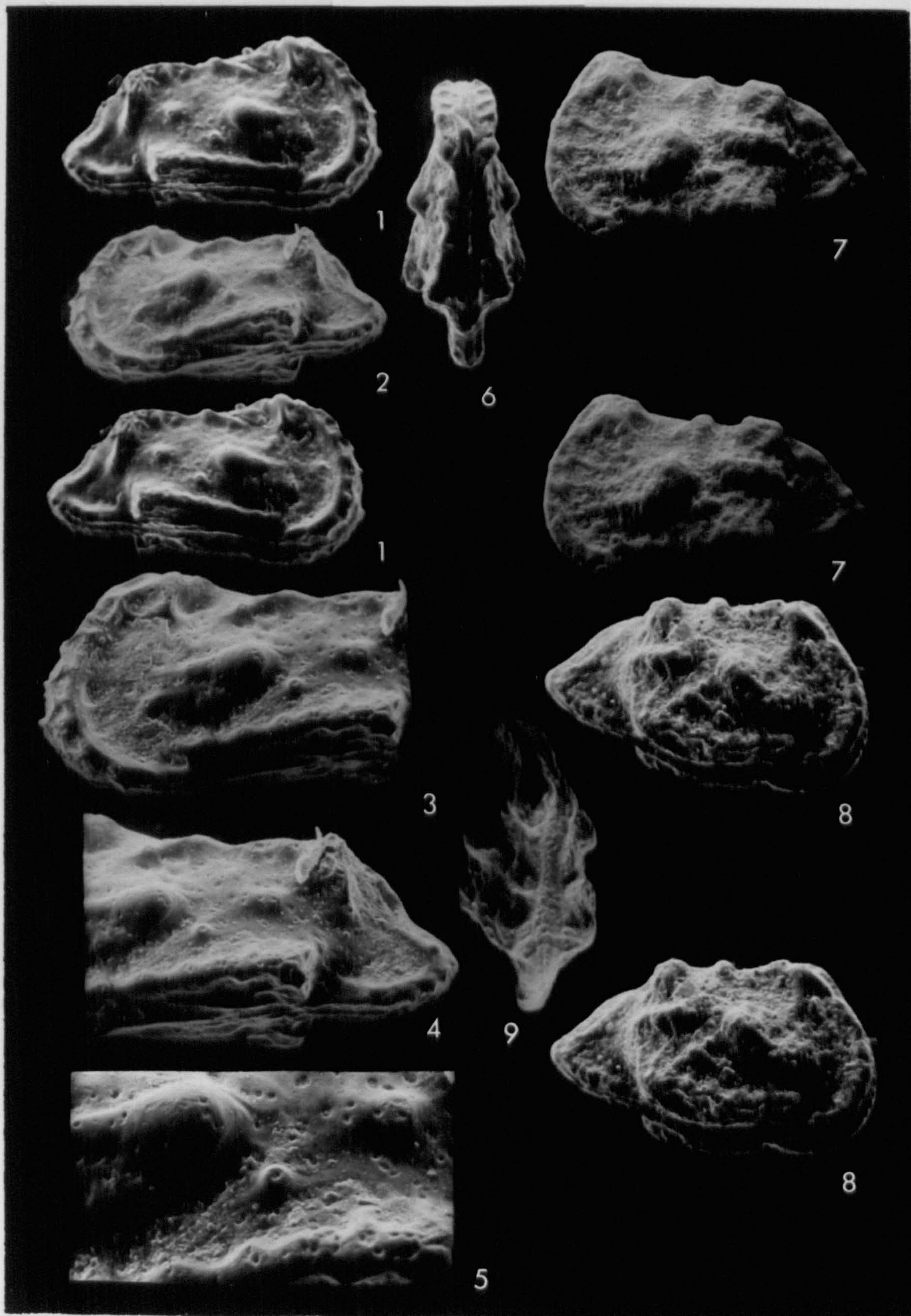
All specimens from Kifl Well-2.

Fig. 7- Carapace, left valve, external, lateral view, (Paratype J.T. 199); stereoscopic paired photographs; drilling depth 4880 ft; X78.

Fig. 8- Carapace, right valve, external, lateral view, (paratype J.T. 198); stereoscopic paired photographs; drilling depth 4815 ft; X86.

Fig. 9- Carapace, external, dorsal view, (paratype J.T. 199); drilling depth 4880 ft; X69.

PLATE-32



EXPLANATION OF PLATE - 33

All specimens from South Rumaila Well-104.

Cythereis alantakii sp. nov.

Fig. 1- Carapace, left valve, external, lateral view, (holotype J.T. 197); stereoscopic paired photographs; drilling depth 2548 m; X92.

Fig. 2- Carapace, right valve, external, lateral view, (holotype J.T. 197), stereoscopic paired photographs; drilling depth 2548 m; X90.

Fig. 3- Carapace, external, ventral view, (paratype J.T. 196); drilling depth 2654 m; X81.

Fig. 4- Carapace, external, dorsal view (paratype J.T. 196); drilling depth 2654 m; X79.

Fig. 5- Carapace, external, ventral view, (holotype J.T. 197); drilling depth 2548 m; X84.

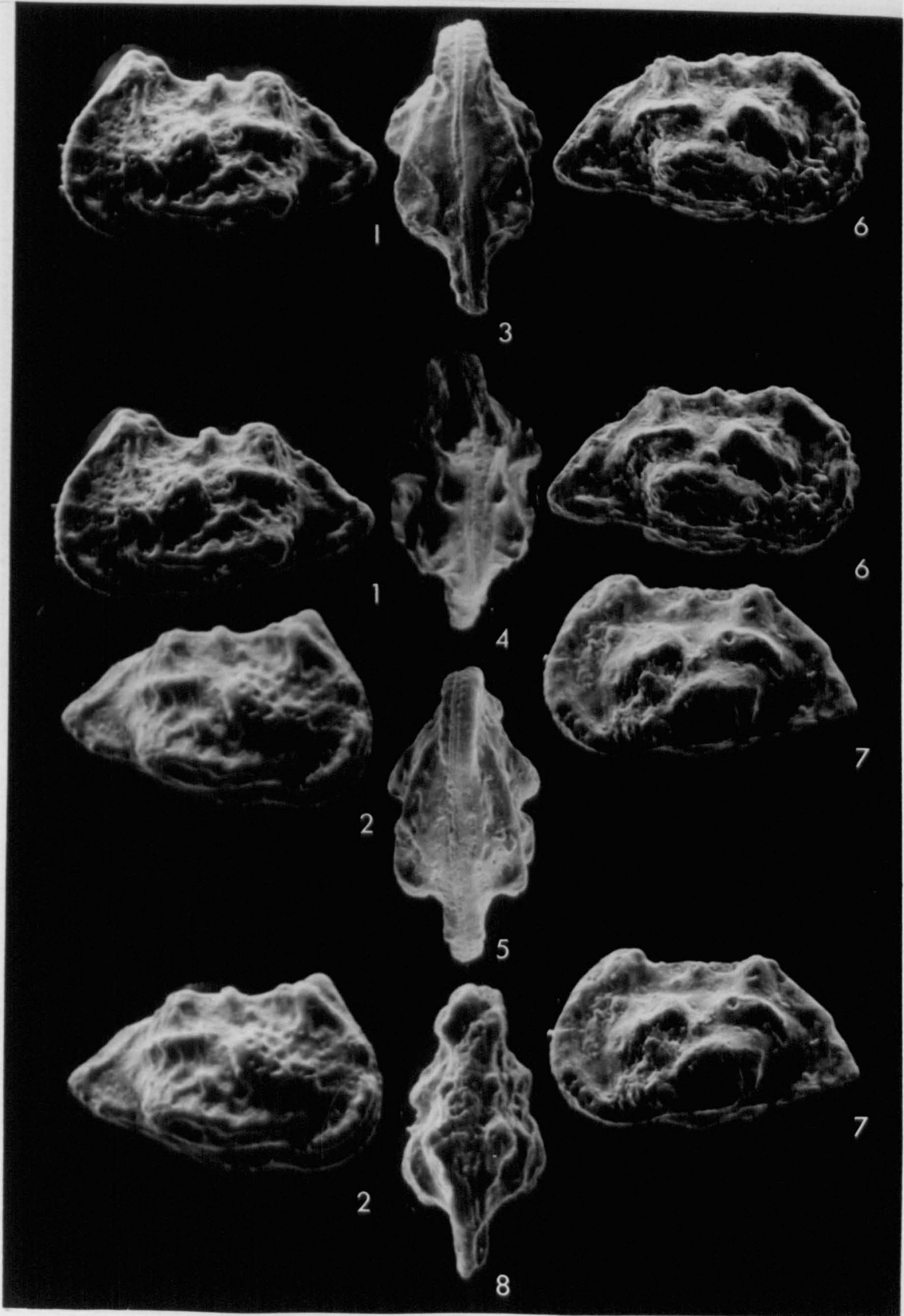
Cythereis cf. alantakii sp. nov.

Fig. 6- Carapace, right valve, external, lateral view, (J.T. 200), stereoscopic paired photographs; drilling depth 2774 m; X96.

Fig. 7- Carapace, left valve, external view, lateral view, (J.T. 200), stereoscopic paired photographs; drilling depth 2774 m; X95.

Fig. 8- Carapace, external, dorsal view, (J.T. 200); drilling depth 2774 m; X86.

PLATE-33



EXPLANATION OF PLATE - 34

Cythereis ? albahilii sp. nov.

All specimens from Ghalaisan Well-1.

Fig. 1- Female? carapace, left valve, external, lateral view, (holotype J.T. 203), stereoscopic paired photographs; drilling depth 4195 ft; X89.

Fig. 2- Female? carapace, right valve, external, lateral view, (holotype J.T. 203), stereoscopic paired photographs; drilling depth 4195 ft; X91.

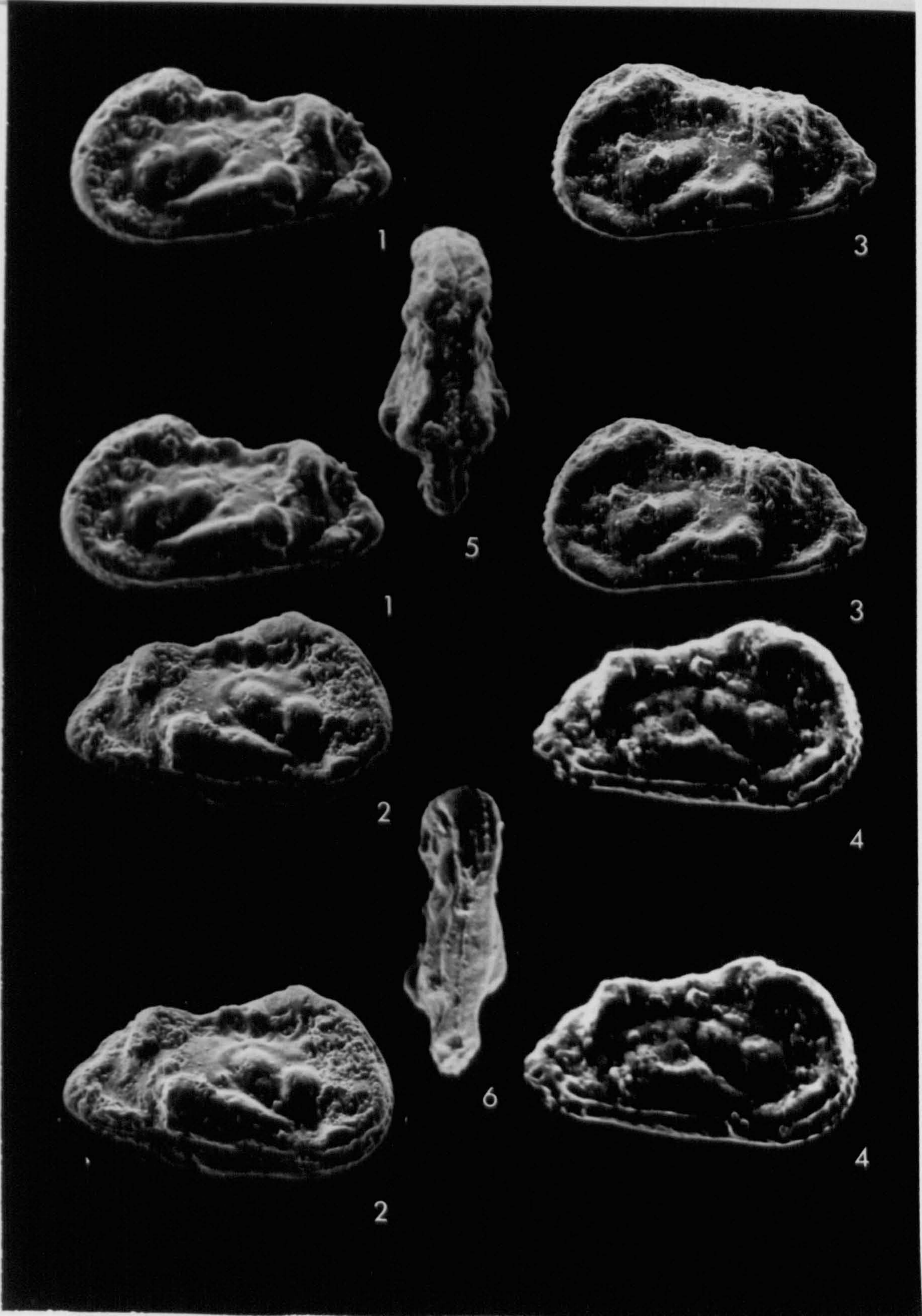
Fig. 3- Male? carapace, left valve, external, lateral view, (paratype J.T. 202), stereoscopic paired photographs; drilling depth 4205 ft; X89.

Fig. 4- Male? carapace, right valve, external, lateral view, (paratype J.T. 202), stereoscopic paired photographs; drilling depth 4205 ft; X91.

Fig. 5- Female? carapace, external, dorsal view, (holotype J.T. 203); drilling depth 4195 ft; X80.

Fig. 6- Male? carapace, external, ventral view, (paratype J.T. 202); drilling depth 4205 ft; X79.

PLATE-34



EXPLANATION OF PLATE - 35

Cythereis alfarazdaki sp. nov.

All specimens from South Rumaila Well-104.

Fig. 1- Male? carapace, left valve, external, lateral view, (holotype J.T. 206), stereoscopic paired photographs; drilling depth 2484 m; X88.

Fig. 2- Male? carapace, right valve, external, lateral view, (holotype J.T. 206), stereoscopic paired photographs; drilling depth 2484 m; X91.

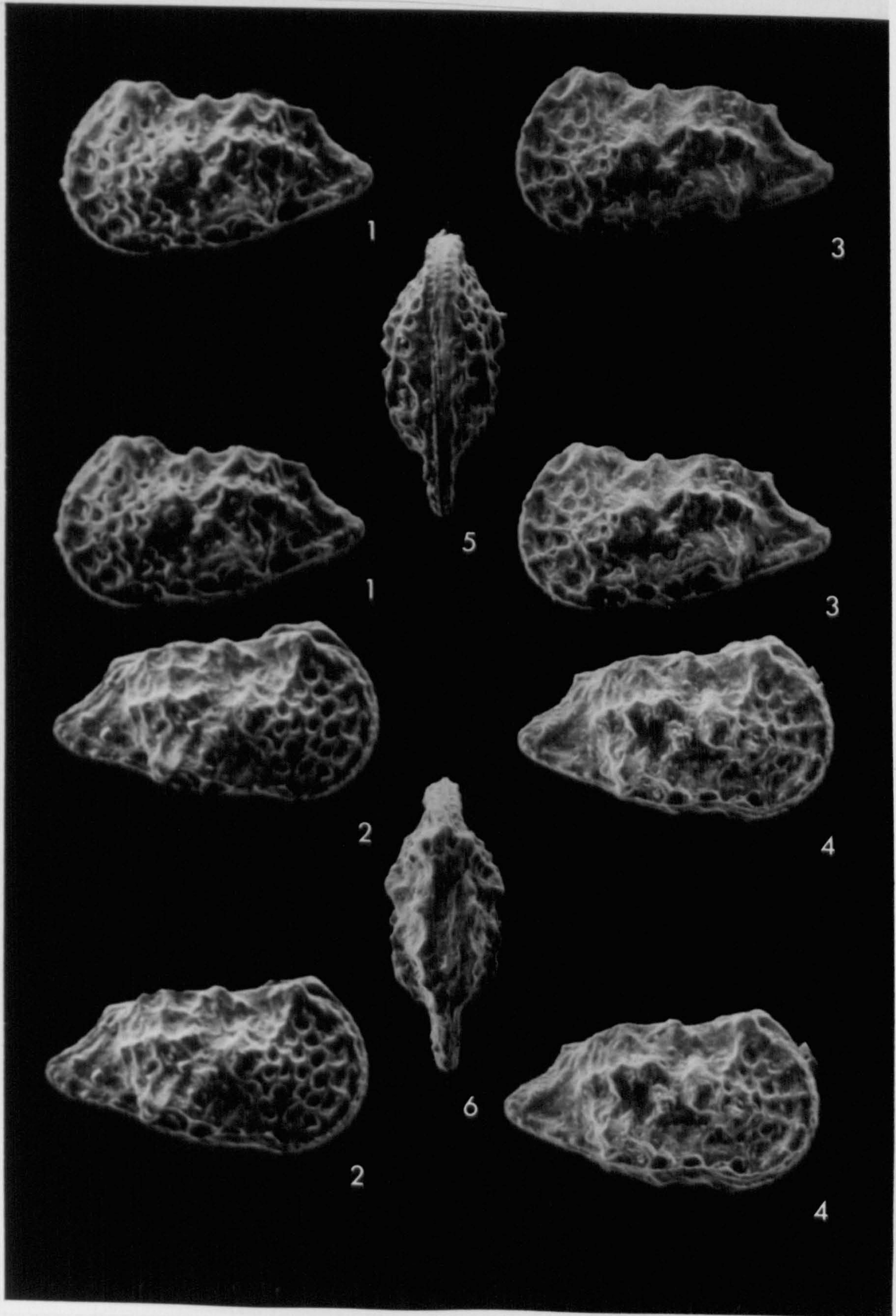
Fig. 3- Female? carapace, left valve, external, lateral view, (paratype J.T. 204), stereoscopic paired photographs; drilling depth 2484 m; X82.

Fig. 4- Female? carapace, right valve, external, lateral view, (paratype J.T. 204), stereoscopic paired photographs; drilling depth 2484 m; X82.

Fig. 5- Male ? carapace, external, ventral view, (holotype J.T. 206); drilling depth 2484 m; X80.

Fig. 6- Female ? carapace, external, dorsal view, (paratype J.T. 204); drilling depth 2484 m; X74.

PLATE-35



EXPLANATION OF PLATE - 36

All specimens from South Rumaila Well-104.

Cythereis aff. alfarazdaki sp. nov.

Fig. 1- Male ? carapace, right valve, external, lateral view, (J.T. 207), stereoscopic paired photographs; drilling depth 2550 m; X61.

Fig. 2- Male ? carapace, left valve, external, lateral view, (J.T. 207); drilling depth 2550 m; X61.

Fig. 3- Male ? carapace, external, dorsal view, (J.T. 207); drilling depth 2550 m; X56.

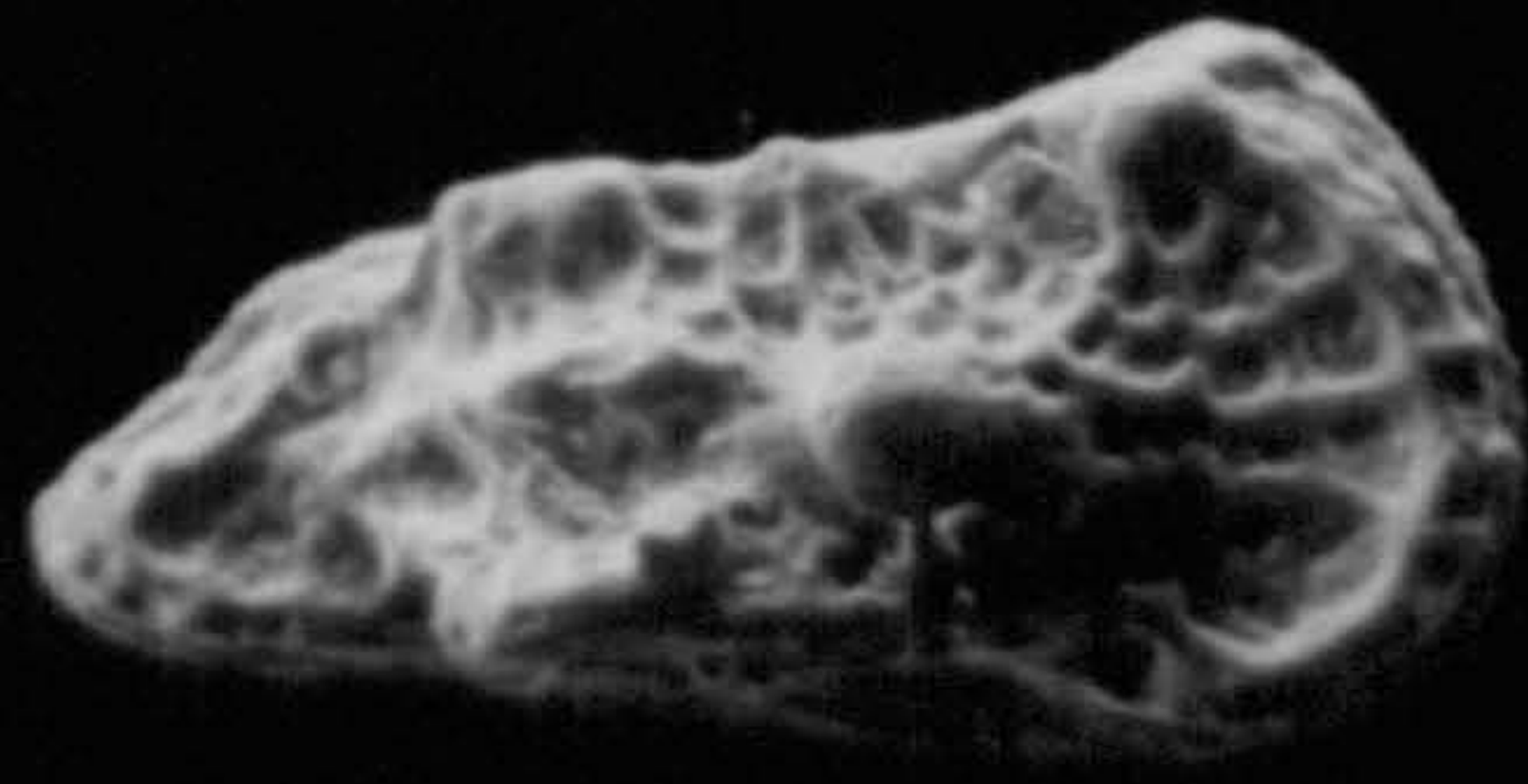
Cythereis ibnalnadimi sp. nov.

Fig. 4- Carapace, right valve, external, lateral view, (holotype J.T. 209), stereoscopic paired photographs; drilling depth 2352 m; X87.

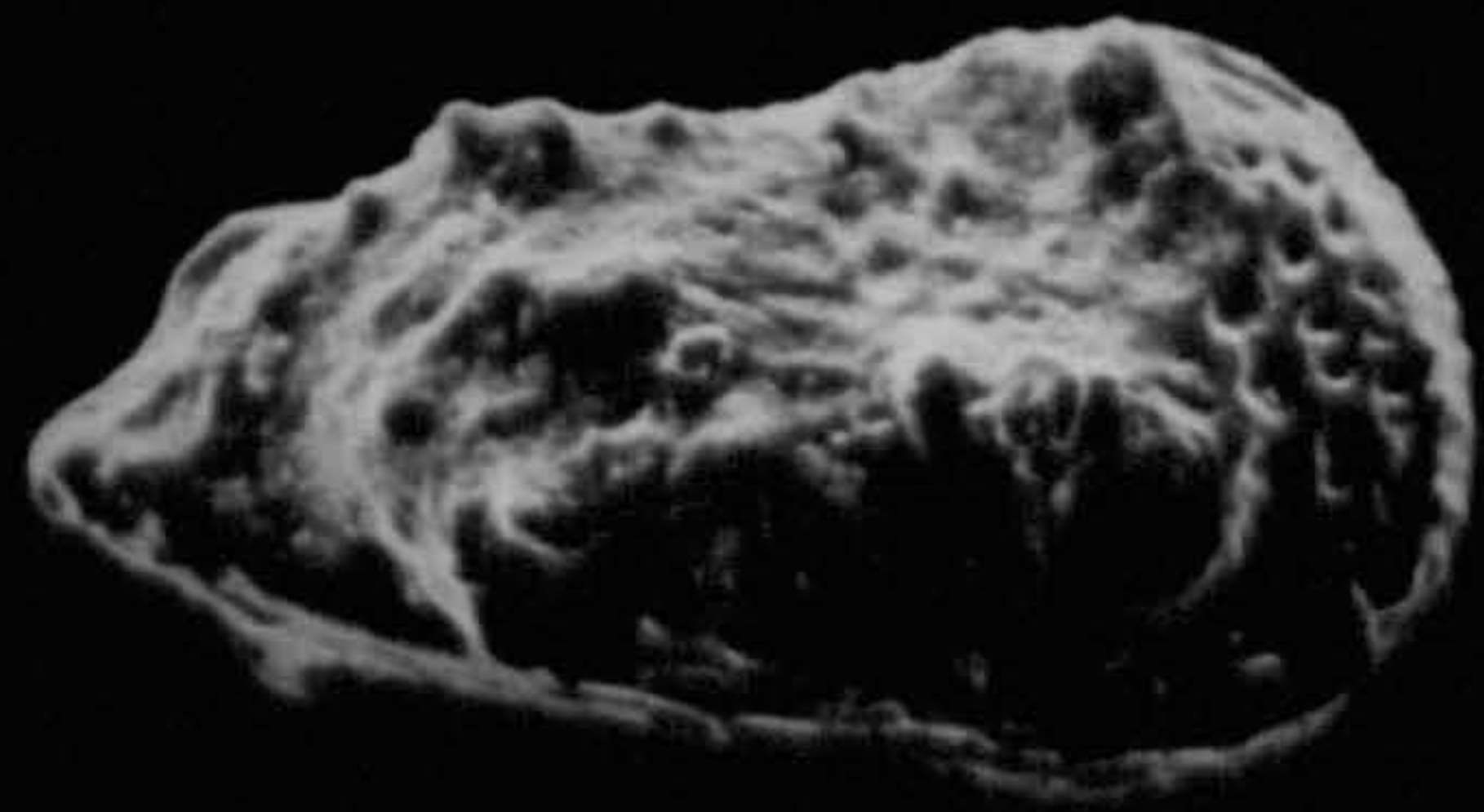
Fig. 5- Carapace, left valve, external, lateral view, (holotype J.T. 209); drilling depth 2352 m; X88.

Fig. 6- Carapace, external, dorsal view, (holotype J.T. 209); drilling depth 2352 m; X78.

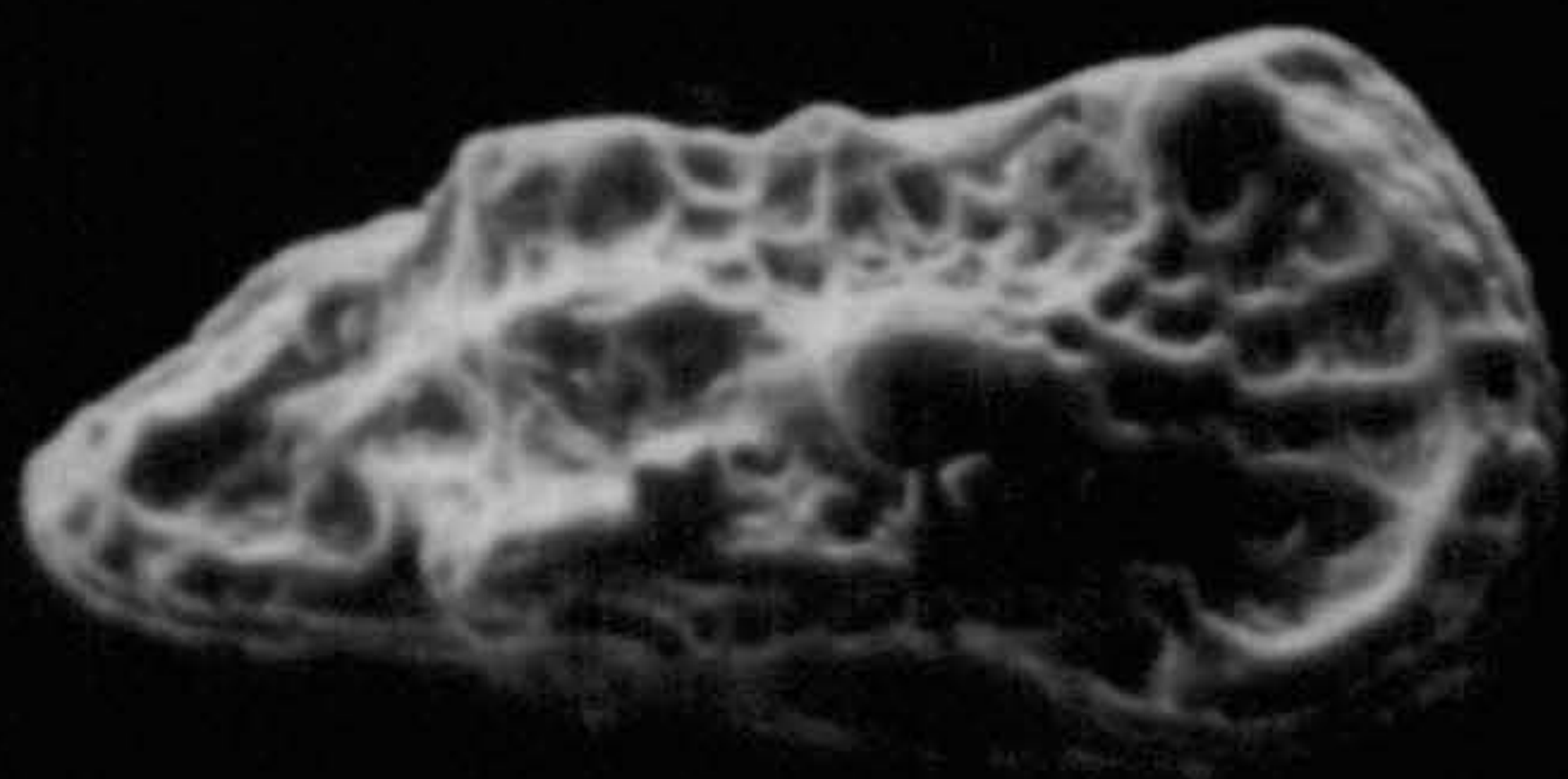
PLATE-36



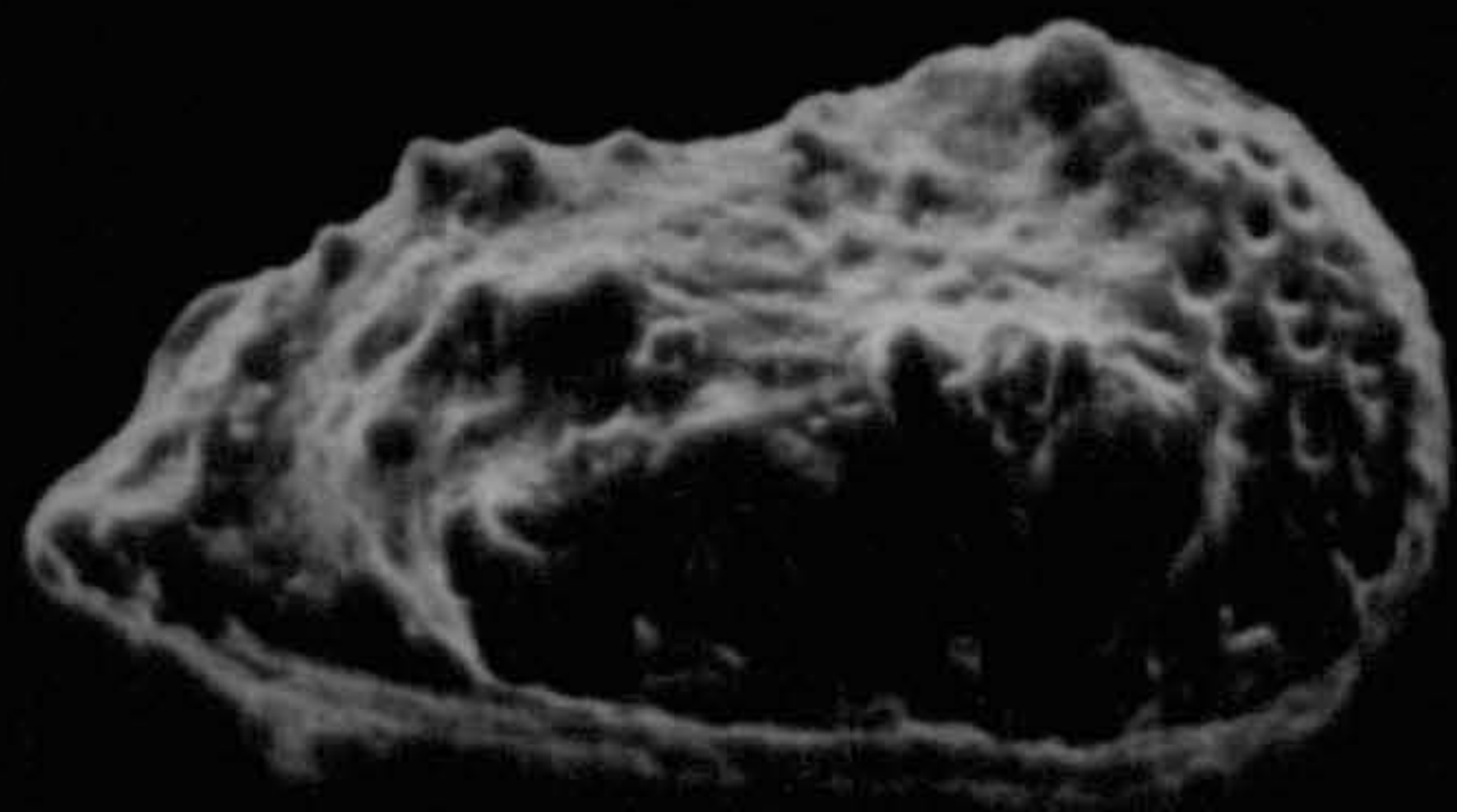
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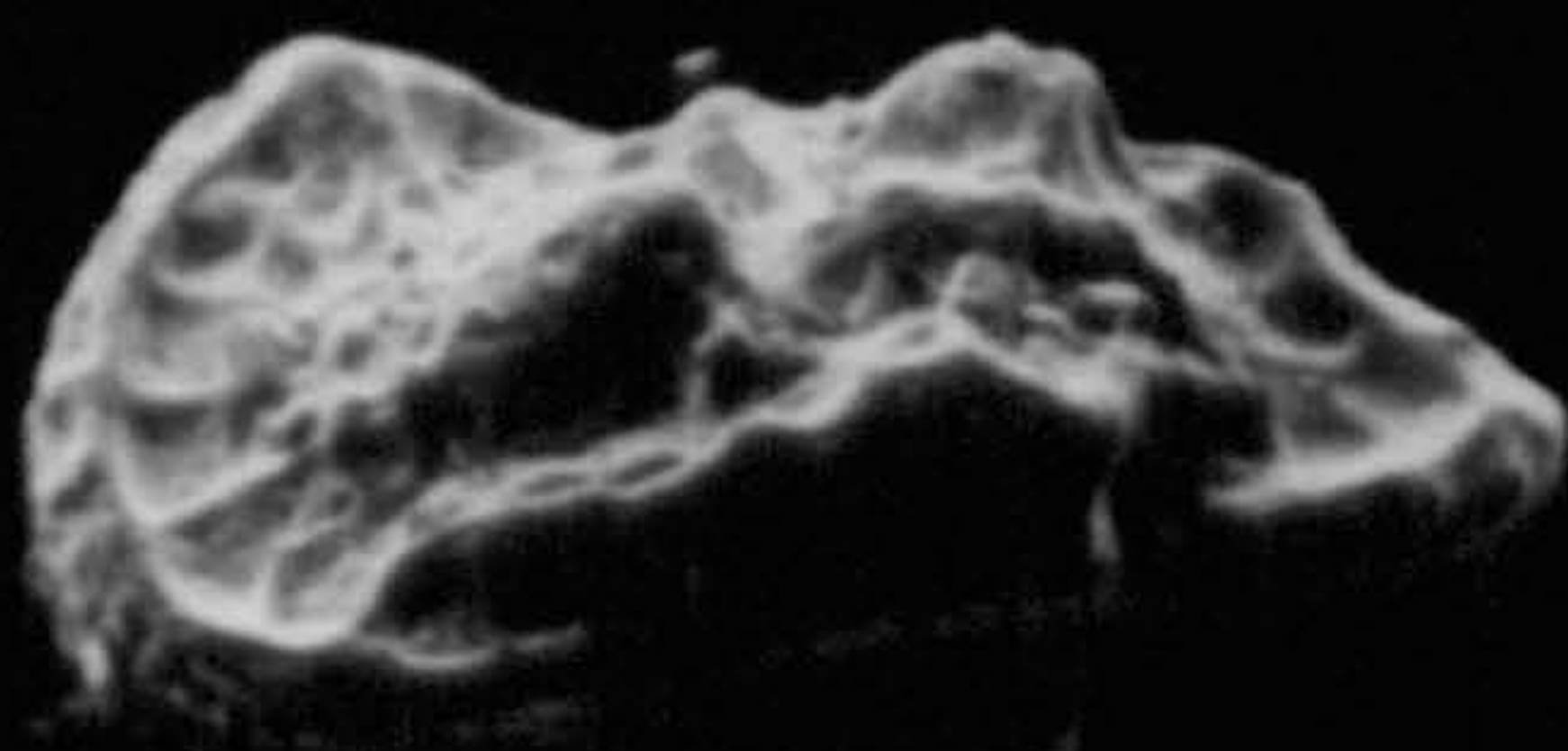
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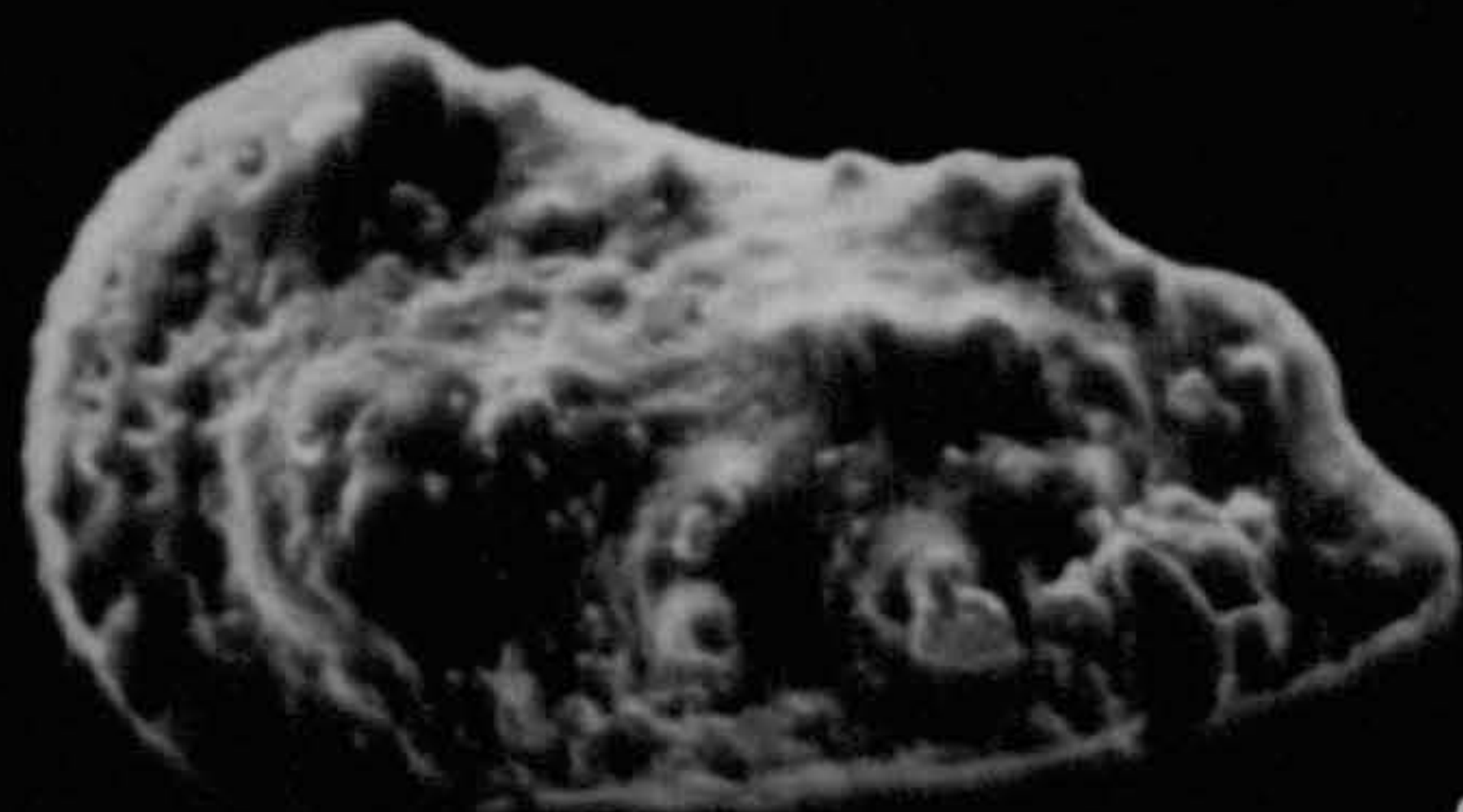
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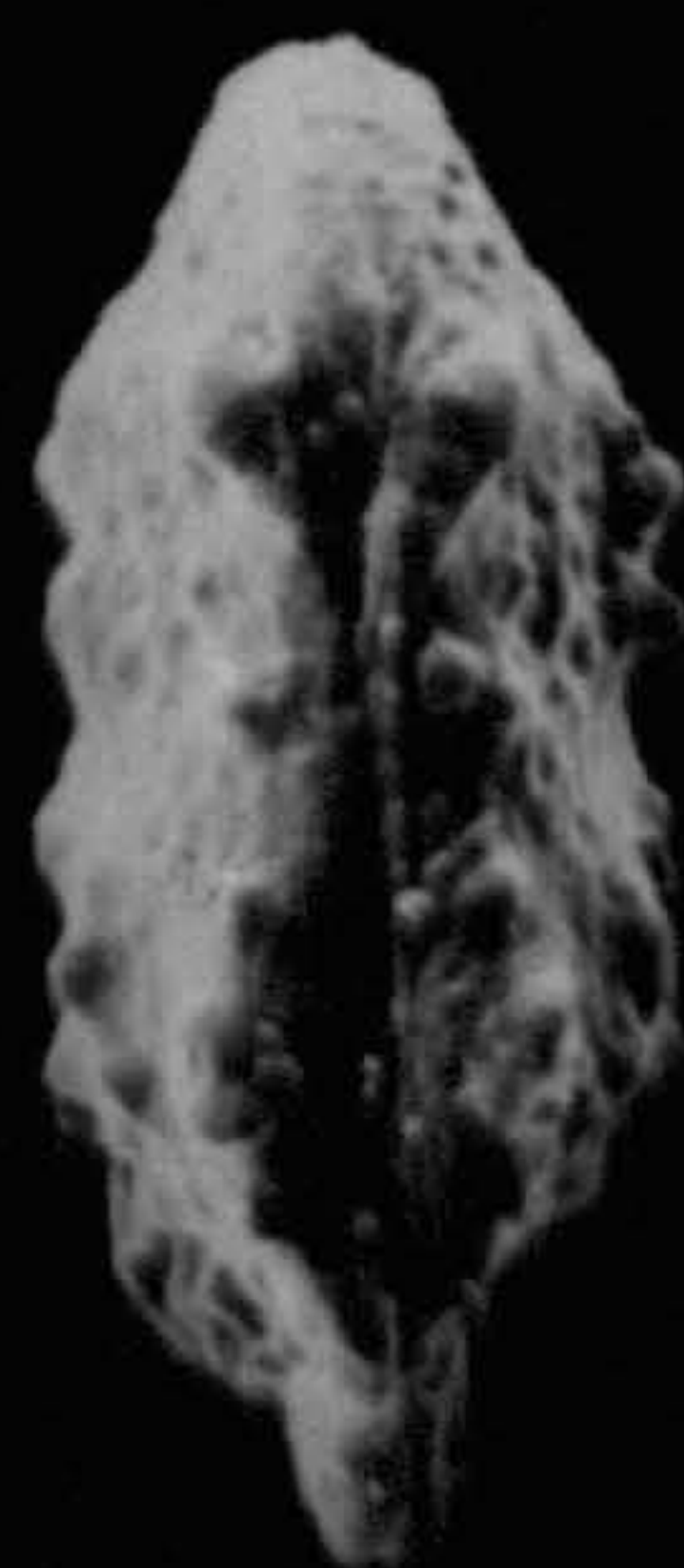
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6

EXPLANATION OF PLATE - 37

All specimens from South Rumaila Well-104.

Cythereis ? ibnyunusi sp. nov.

Morphotype No. 1.

Fig. 1- Female carapace, left valve, external, lateral view, (holotype J.T. 227), stereoscopic paired photographs; drilling depth 2390 m; X68.

Fig. 2- Male carapace, left valve, external, lateral view, (paratype J.T. 211), stereoscopic paired photographs; drilling depth 2392 m; X62.

Fig. 3- Male carapace, right valve, external, lateral view, (paratype J.T. 212), stereoscopic paired photographs; drilling depth 2390 m; X60.

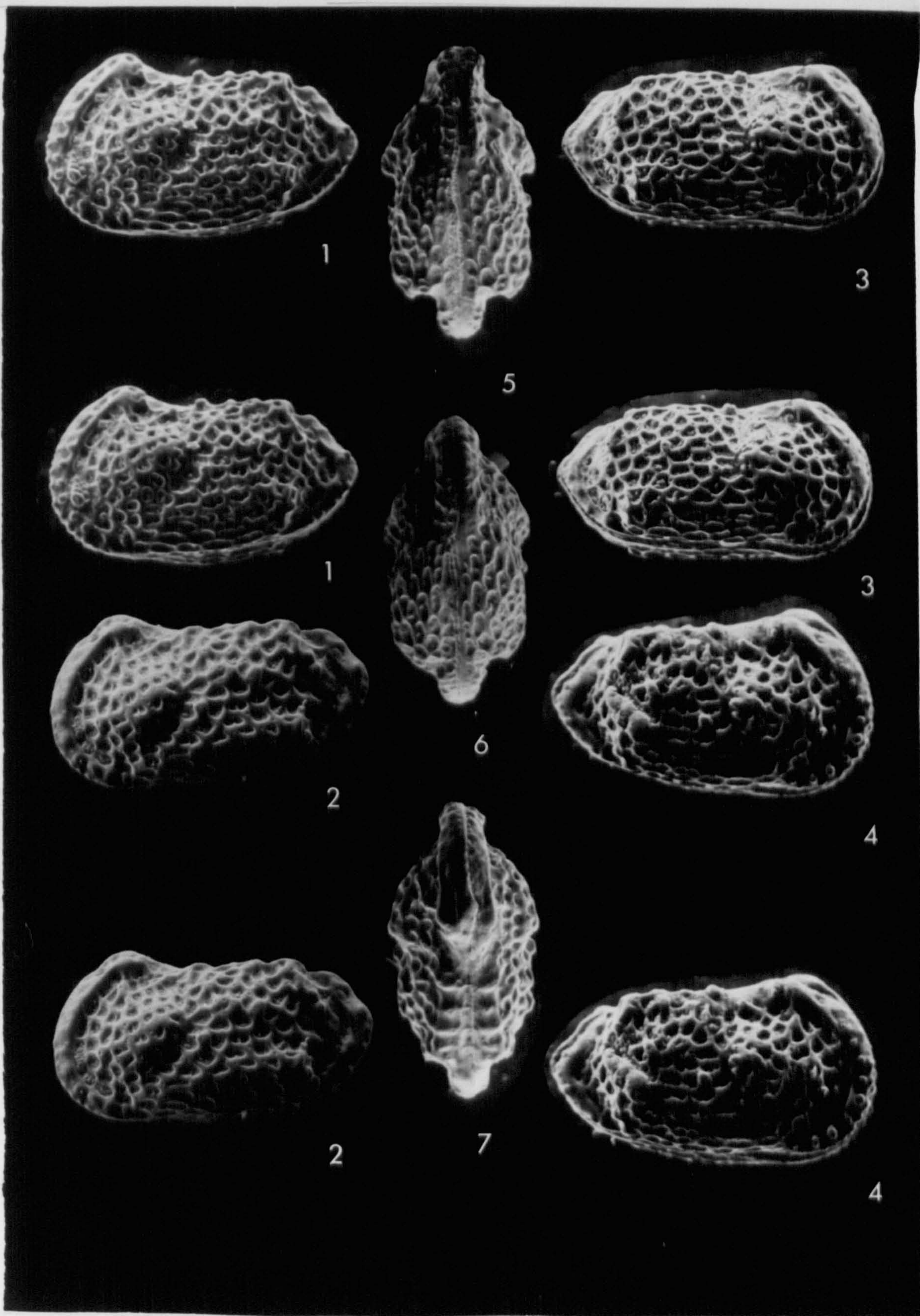
Fig. 4- Female carapace, right valve, external, lateral view, (holotype J.T. 227), stereoscopic paired photographs; drilling depth 2390 m; X71.

Fig. 5- Female carapace, external, ventral view, (paratype J.T.219); drilling depth 2418 m; X61.

Fig. 6- Female carapace, external, ventral view, (paratype J.T. 231); drilling depth 2410 m; X64.

Fig. 7- Female carapace, external, dorsal view, (paratype J.T. 228); drilling depth 2392 m; X64.

PLATE-37



EXPLANATION OF PLATE - 38

Cythereis ? ibnyunusi sp. nov.

Morphotype No. 1.

All specimens from South Rumaila Well-104.

Fig. 1- Female carapace, left valve, external, lateral view, (paratype J.T. 230), stereoscopic paired photographs; drilling depth 2410 m; X71.

Fig. 2- Female carapace, right valve, external, lateral view, (paratype J.T. 230), stereoscopic paired photographs; drilling depth 2410 m; X73.

Morphotype No. 2.

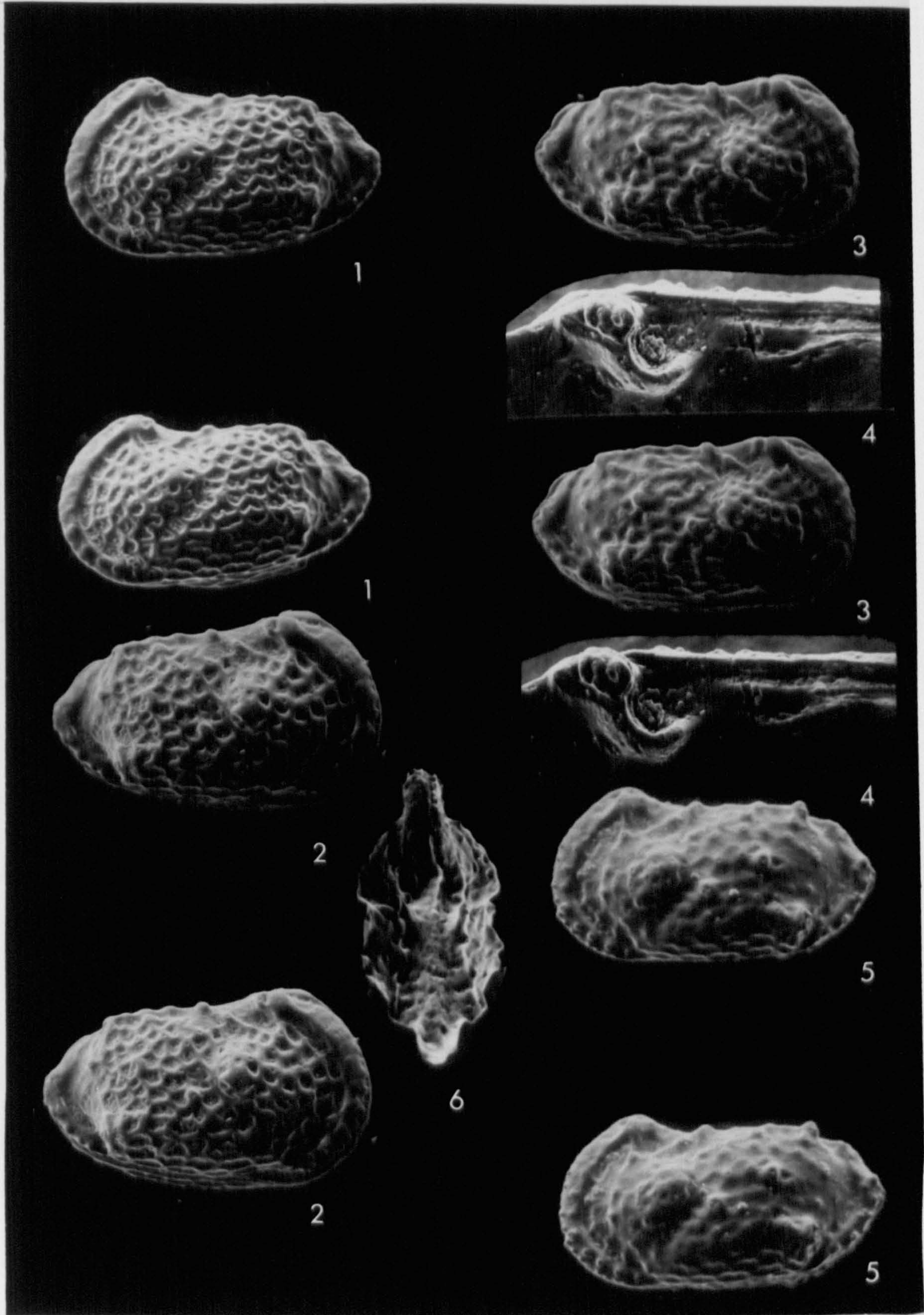
Fig. 3- Male carapace, right valve, external, lateral view, (paratype J.T. 216), stereoscopic paired photographs; drilling depth 2410 m; X57.

Fig. 4- Right valve (broken), internal view, anterior hinge details, (paratype J.T. 234), stereoscopic paired photographs; drilling depth 2386 m, X155.

Fig. 5- Male carapace, left valve, external, lateral view, (paratype J.T. 213), stereoscopic paired photographs; drilling depth 2384 m; X63.

Fig. 6- Female carapace, external, dorsal view, (paratype J.T. 221), drilling depth 2380 m; X58.

PLATE-38



EXPLANATION OF PLATE - 39

Cythereis ? ibnyunusi sp. nov.

Morphotype No. 2

All specimens from South Rumaila Well-104.

Fig. 1- Female carapace, left valve, external, lateral view, (paratype J.T.233); drilling depth 2392 m; X55.

Fig. 2- Male carapace, right valve, external, lateral view, (paratype J.T. 214), stereoscopic paired photographs; drilling depth 2380 m; X55.

Morphotype No. 3

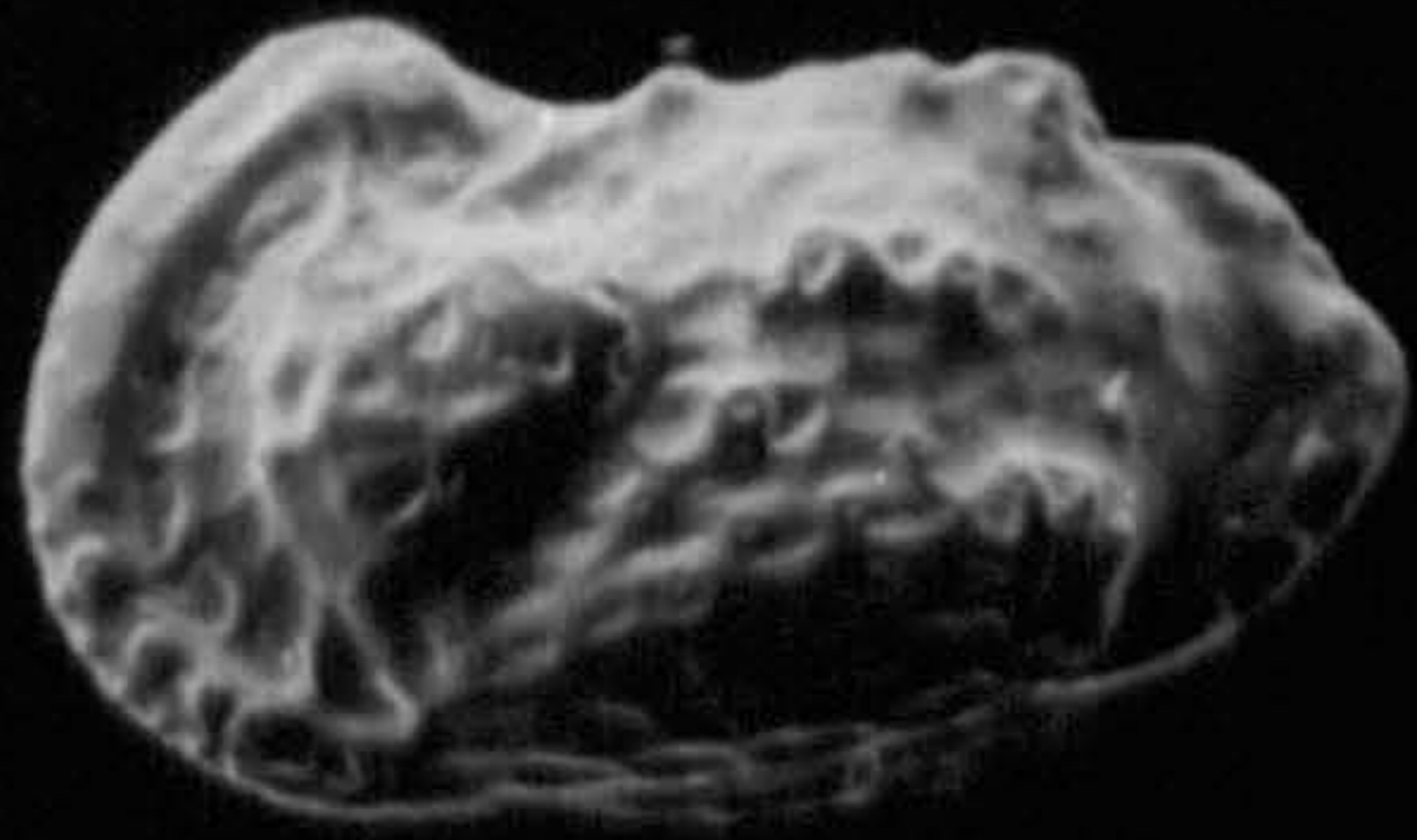
Fig. 3- Female carapace, right valve, external, lateral view, (paratype J.T. 218), stereoscopic paired photographs; drilling depth 2416 m; X68.

Fig. 4- Female carapace, left valve, external, lateral view, (paratype J.T. 225), stereoscopic paired photographs; drilling depth 2379 m; X62.

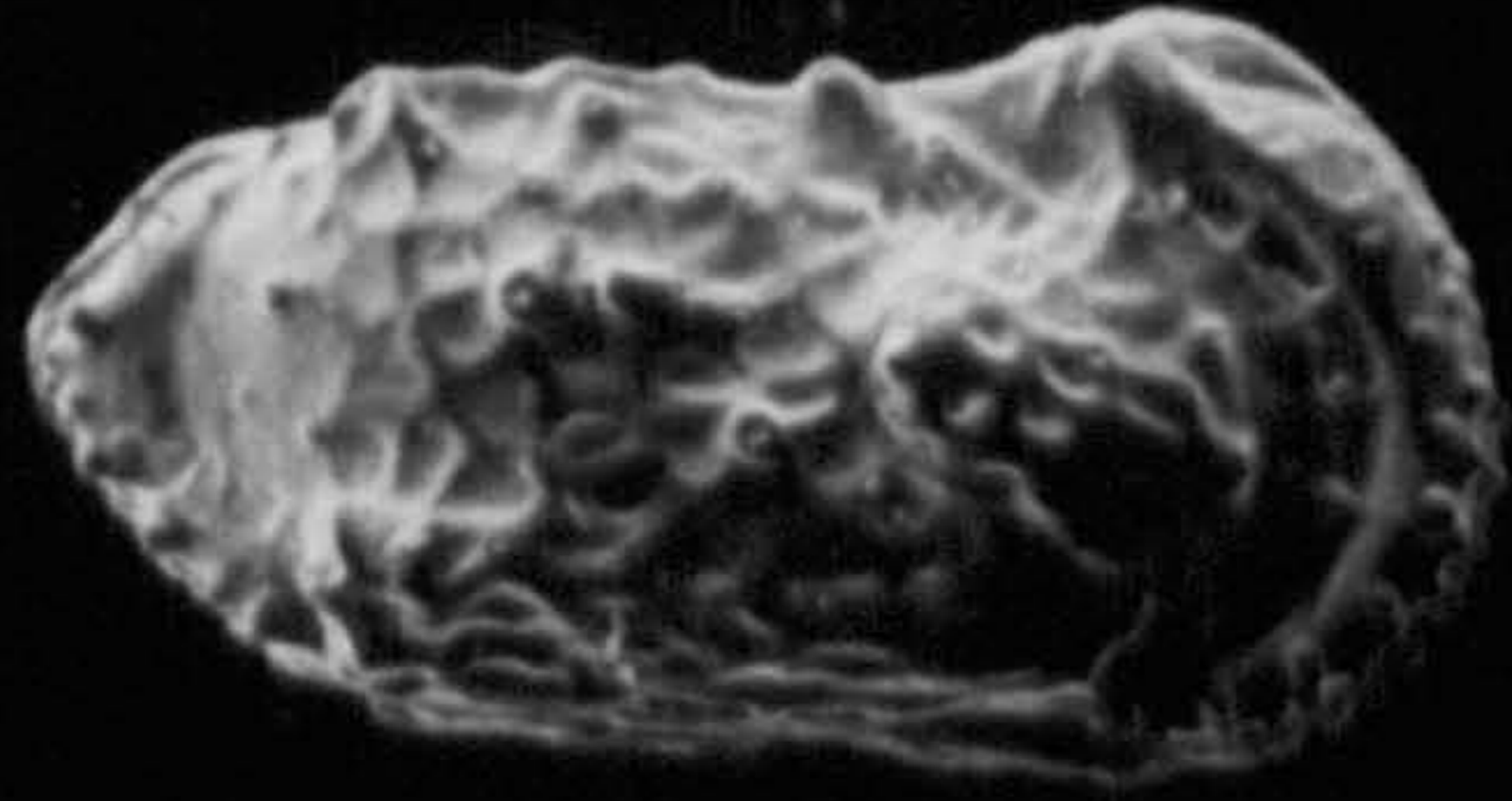
Fig. 5- Male carapace, left valve, external, lateral view, (paratype J.T. 217), stereoscopic paired photographs; drilling depth 2376 m; X58.

Fig. 6- Right valve (broken), internal view, central muscle scars, (paratype J.T.232), stereoscopic paired photographs; drilling depth 2392 m; X155.

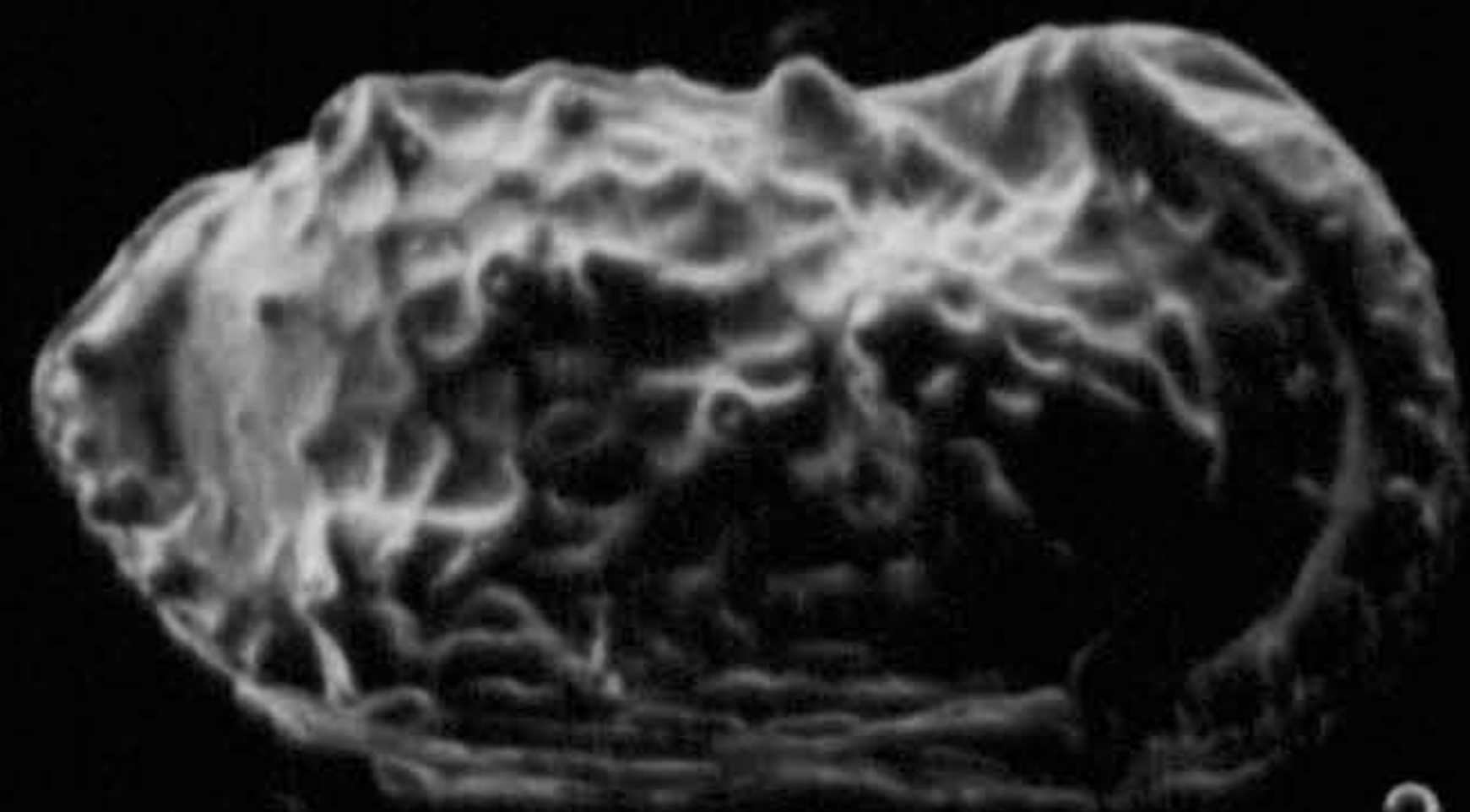
PLATE-39



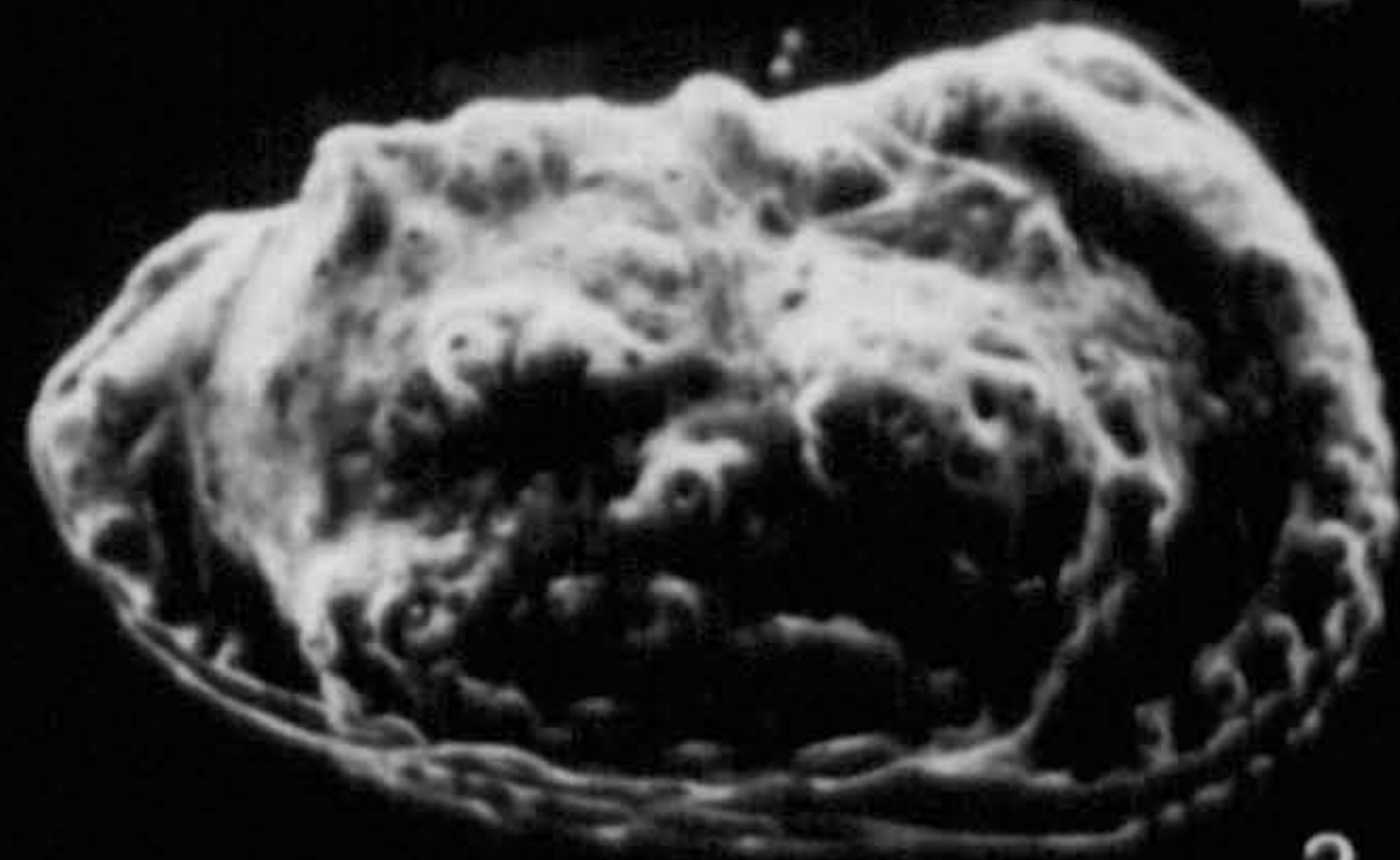
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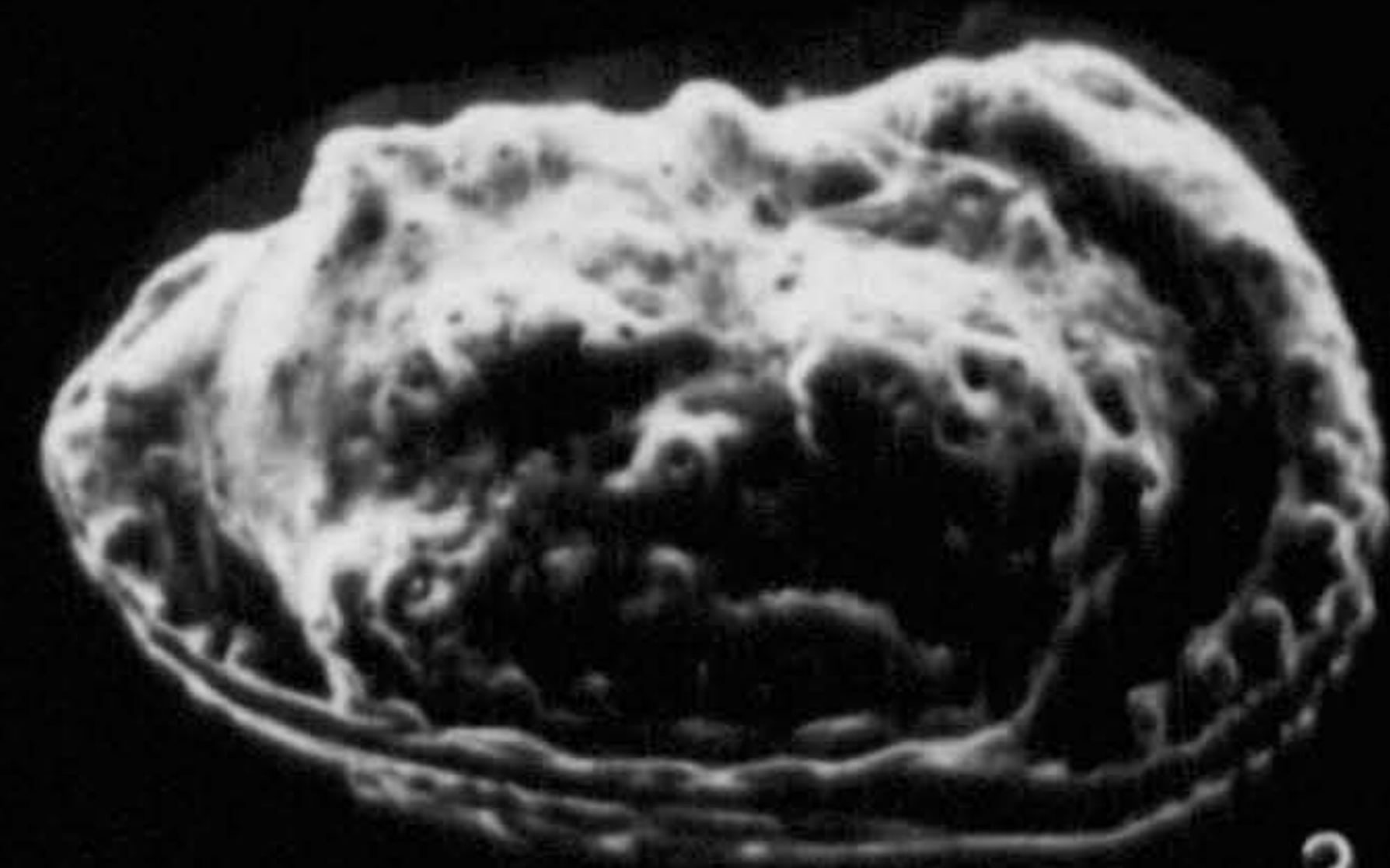
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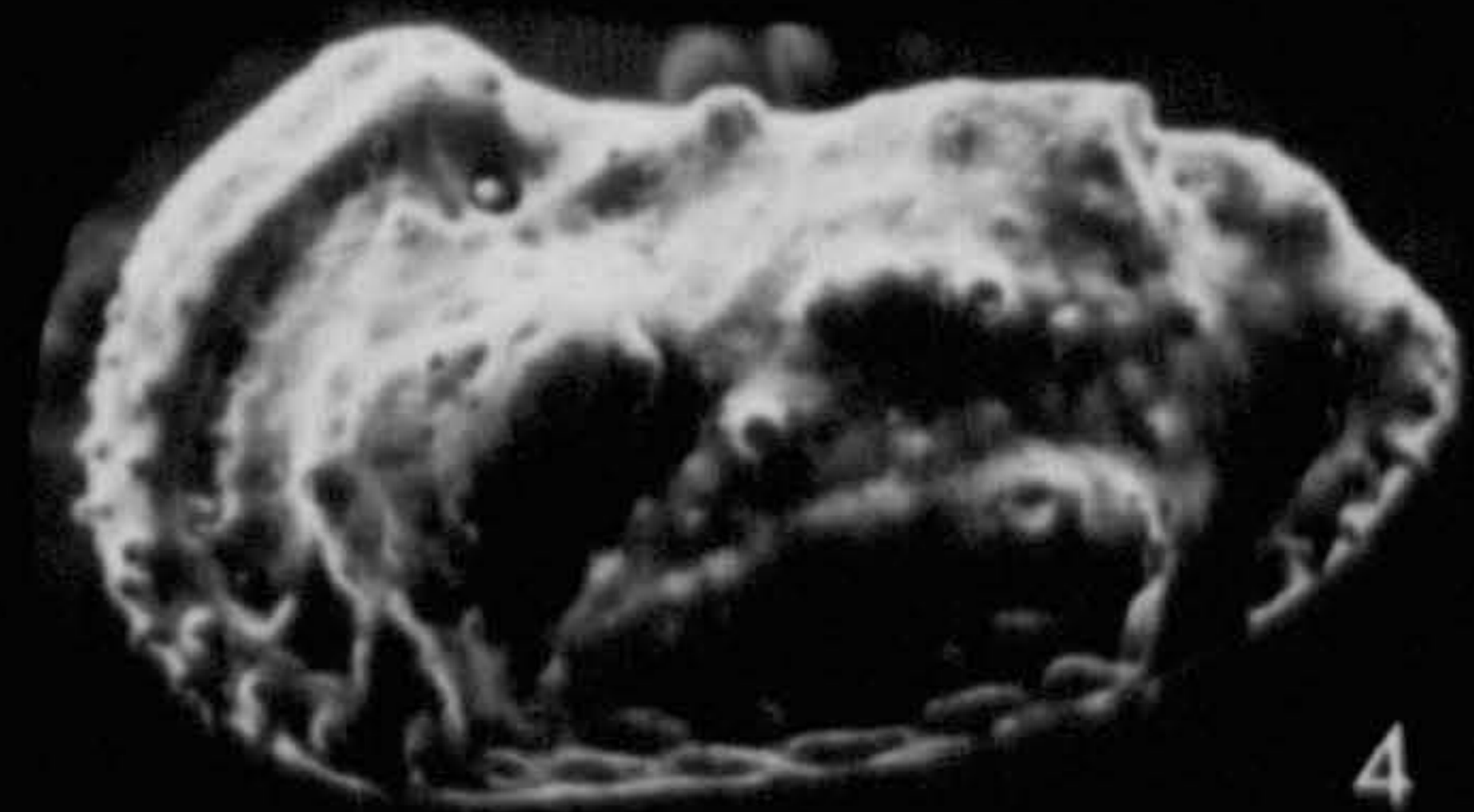
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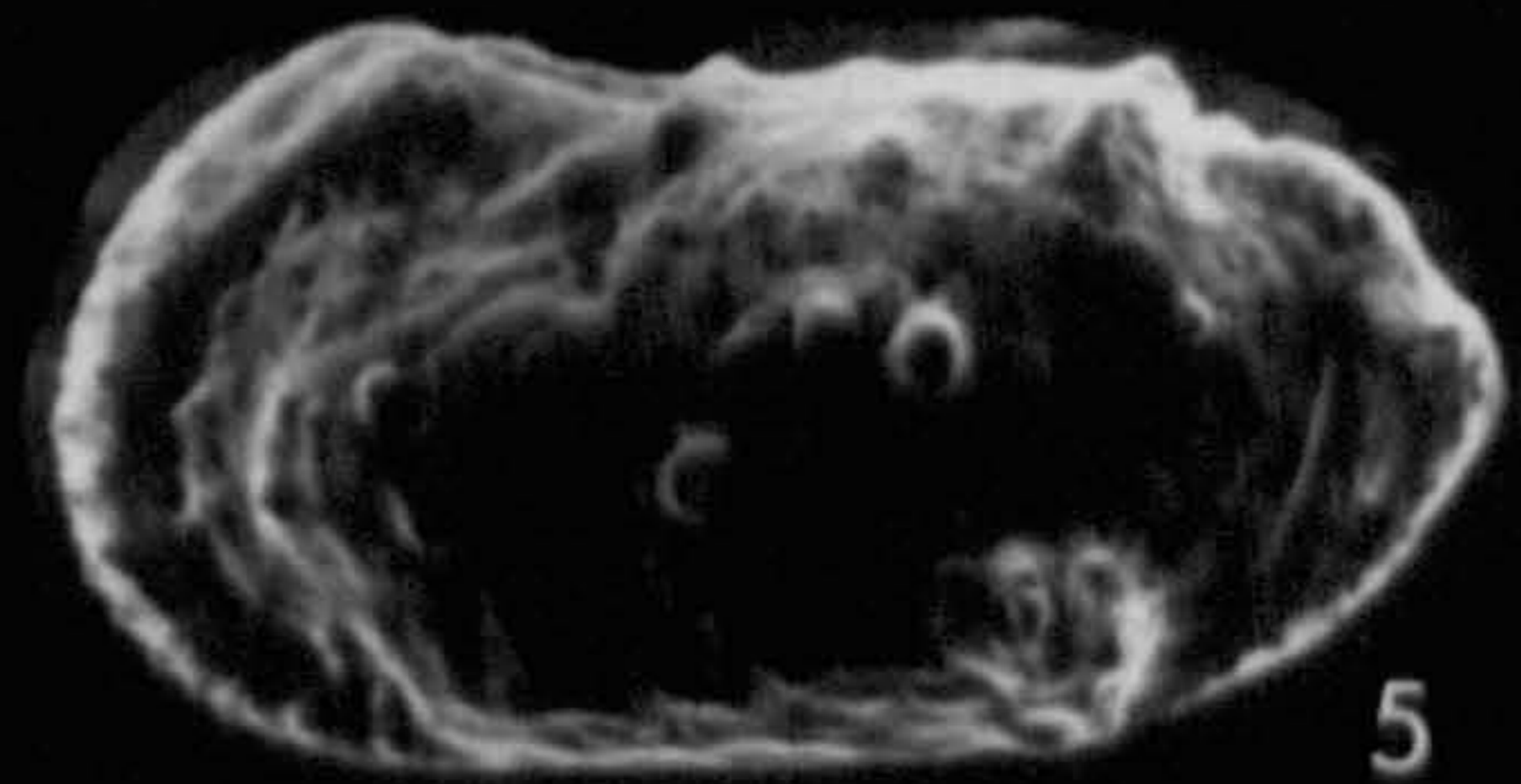
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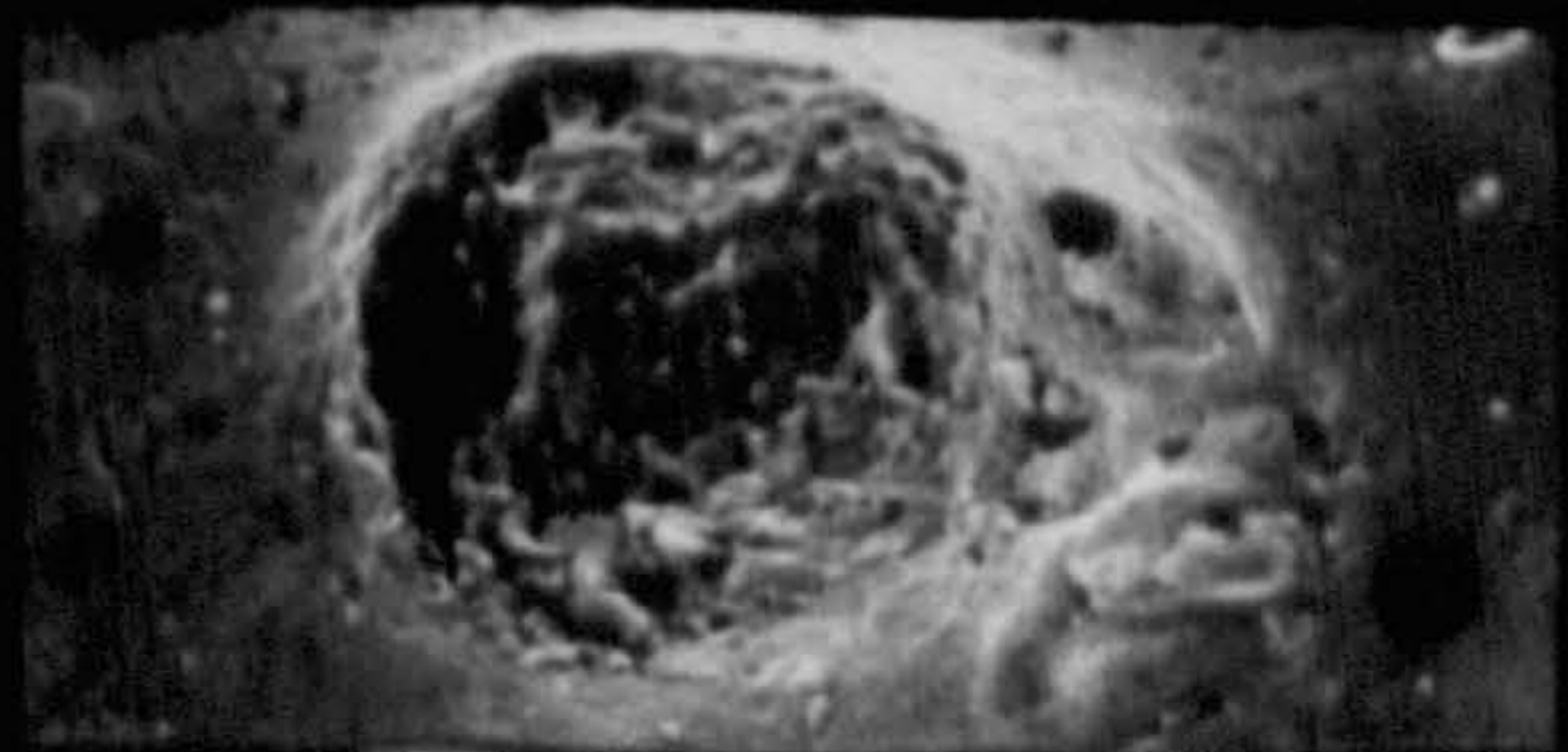
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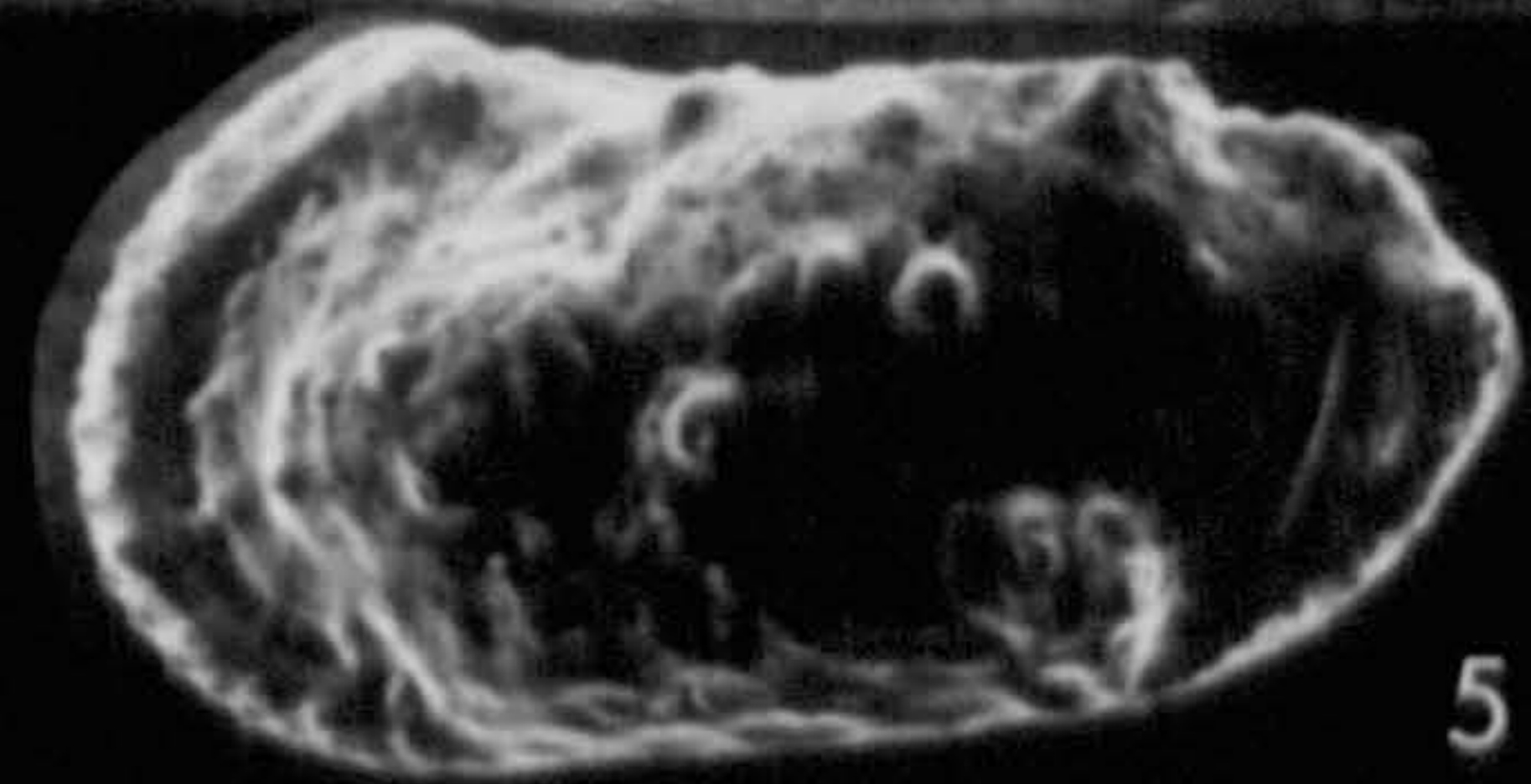
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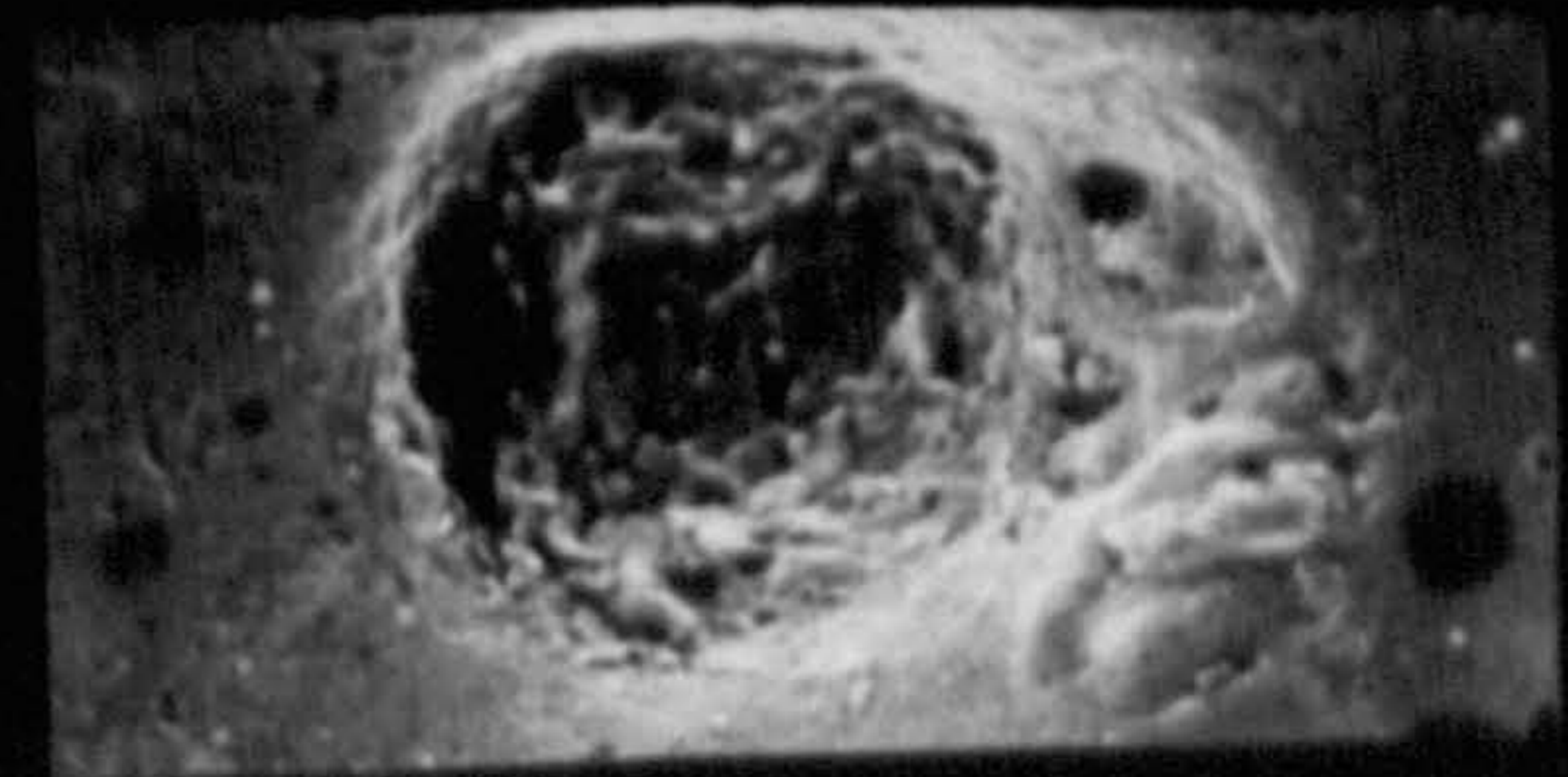
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6

EXPLANATION OF PLATE - 40

Cythereis ? ibnyunusi sp. nov.

Morphotype No. 3

All specimens from South Rumaila Well-104.

Fig. 1- Female carapace, left valve, external, lateral view, (paratype J.T. 224), stereoscopic paired photographs; drilling depth 2394 m; X68.

Morphotype No. 2

Fig. 2- Right valve (broken), internal view, central muscle scars, (paratype J.T.223); drilling depth 2386 m; X117.

Fig. 3- Right valve (broken), internal, lateral view, (paratype J.T.223); drilling depth 2386 m; X155.

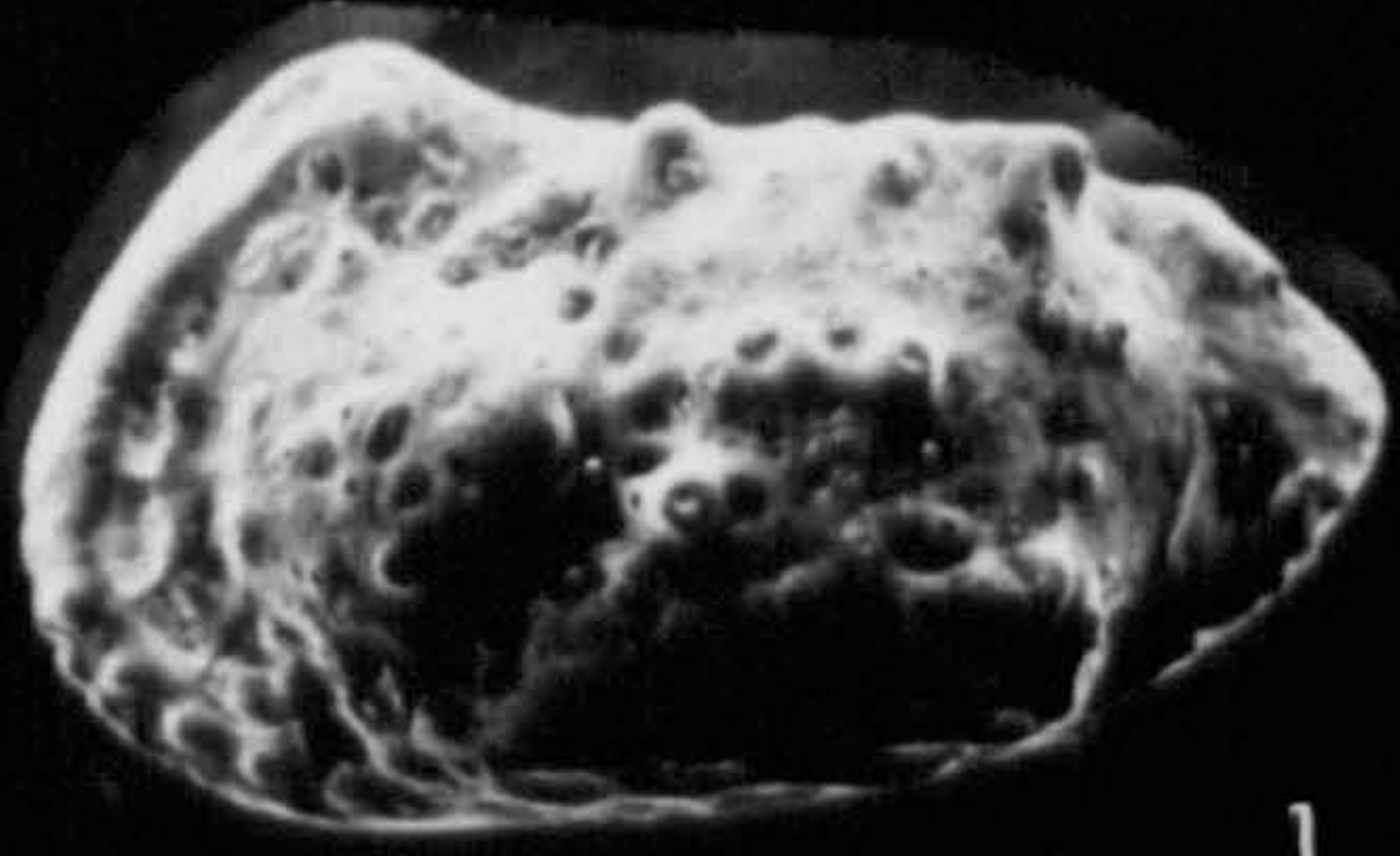
Morphotype No. 3

Fig. 4- Female, left valve, internal, lateral view, (paratype J.T. 222), stereoscopic paired photographs; drilling depth 2390 m; X71.

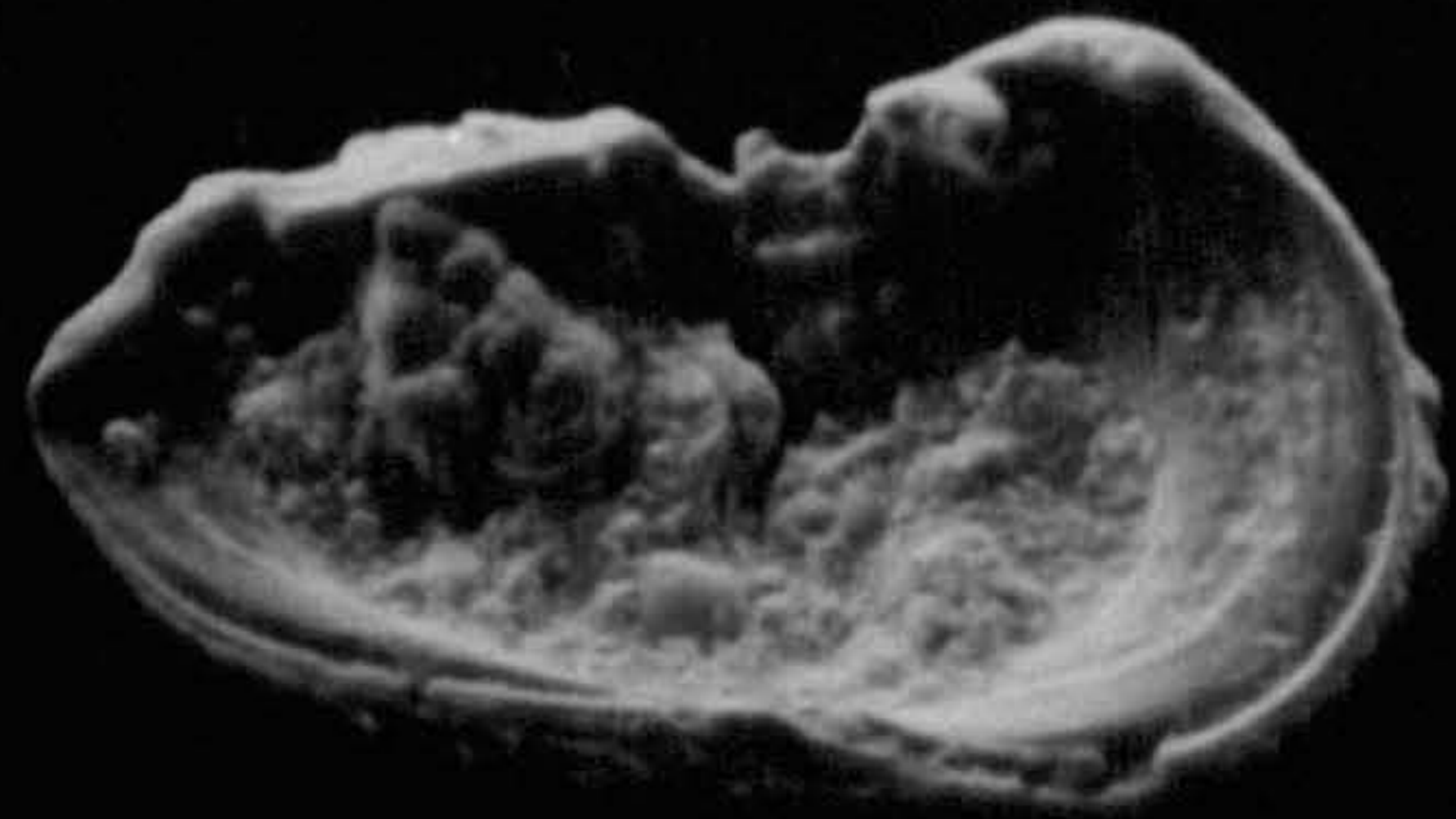
Fig. 5- Right valve (broken), internal view, anterior hinge, (paratype J.T.232), stereoscopic paired photographs; drilling depth 2392 m; X129.

Fig. 6- Female carapace, left valve, external, postero-lateral view, (paratype J.T. 224); drilling depth 2394 m; X79.

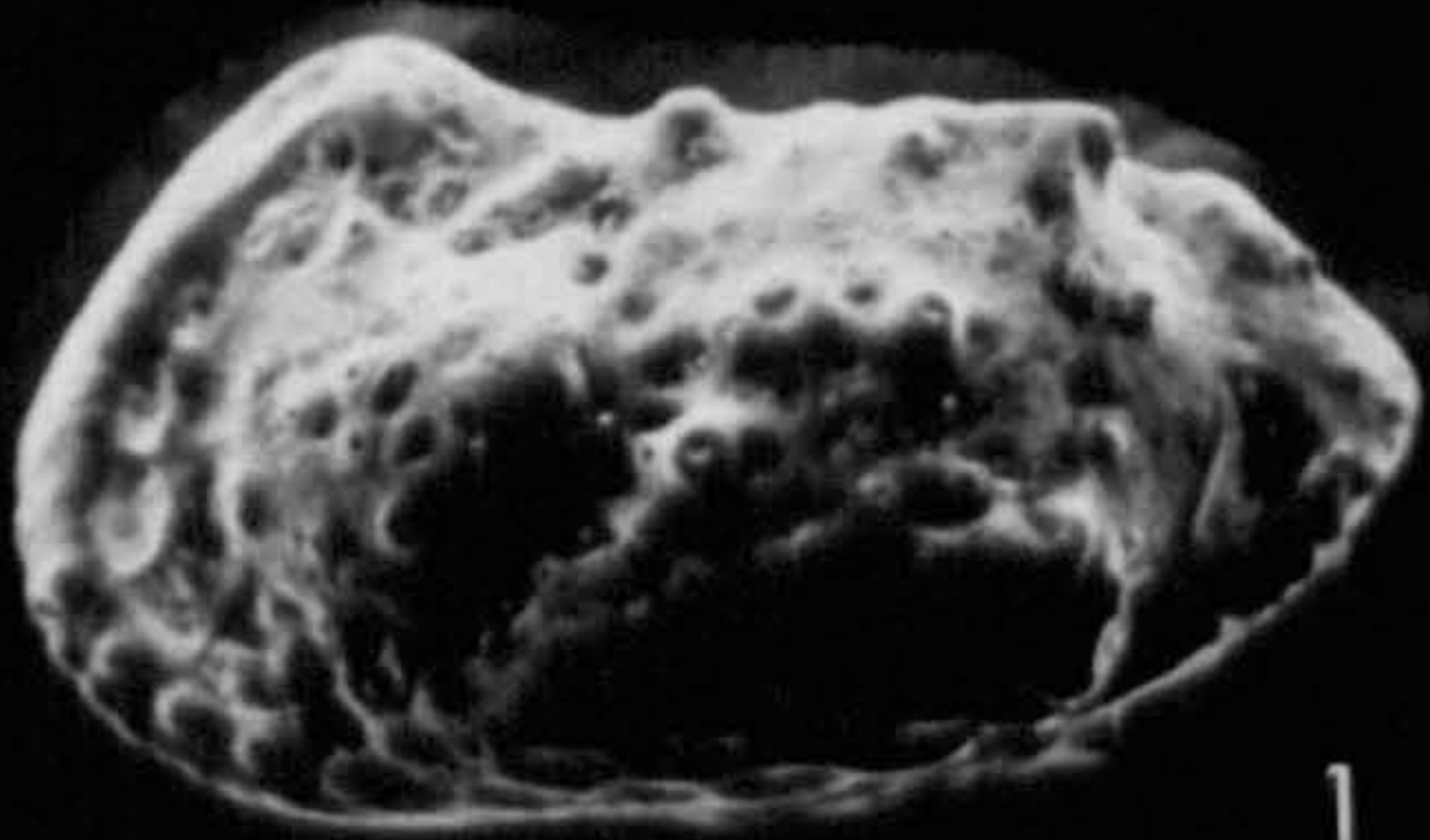
PLATE-40



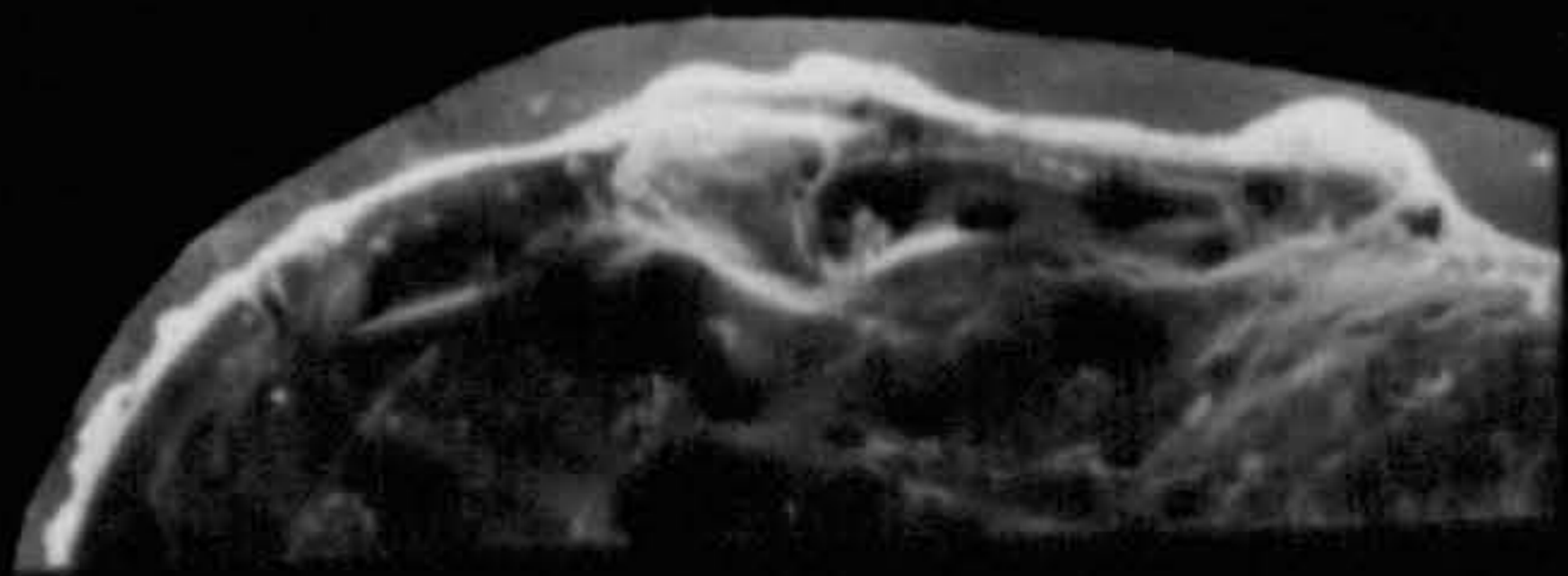
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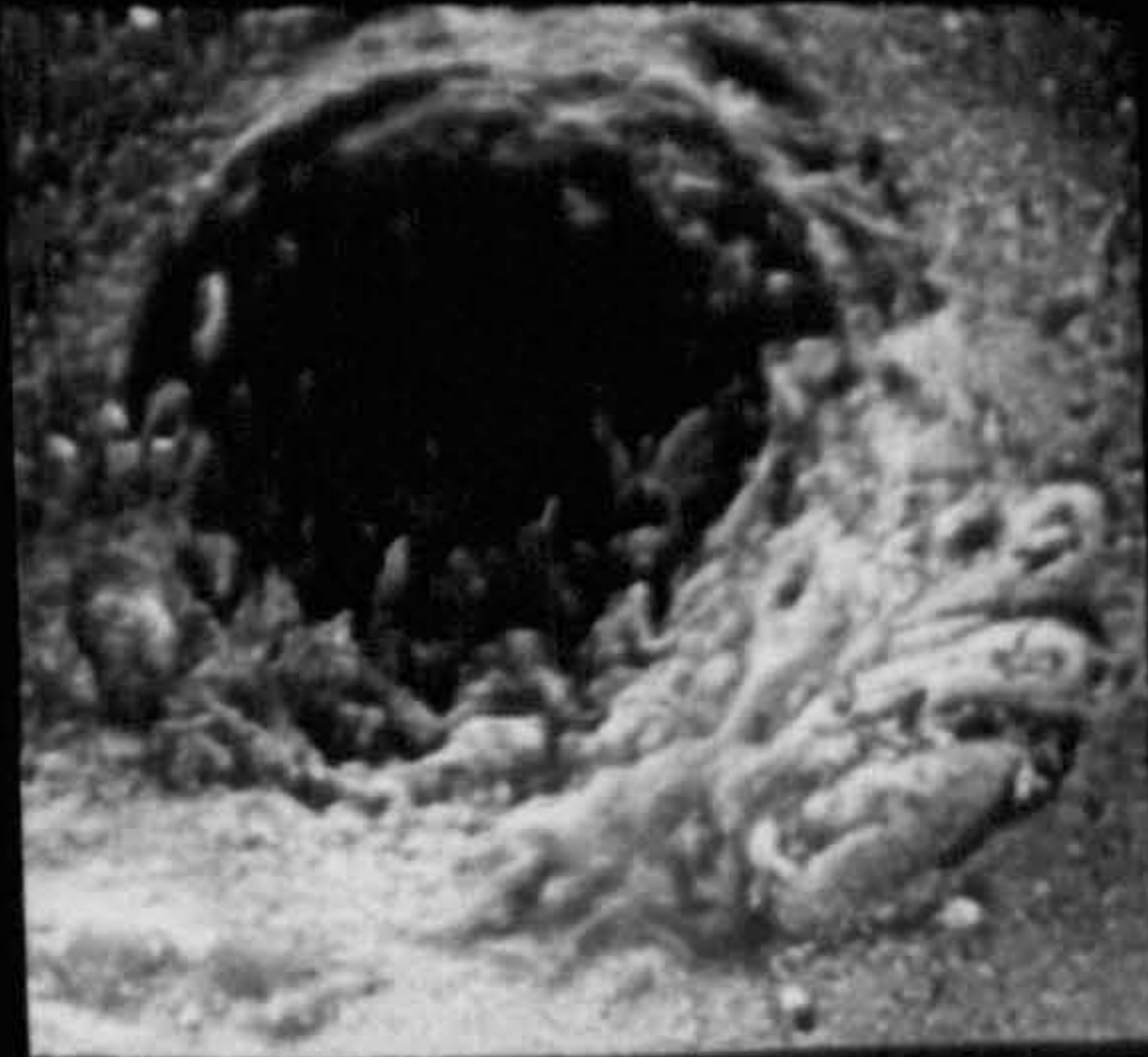
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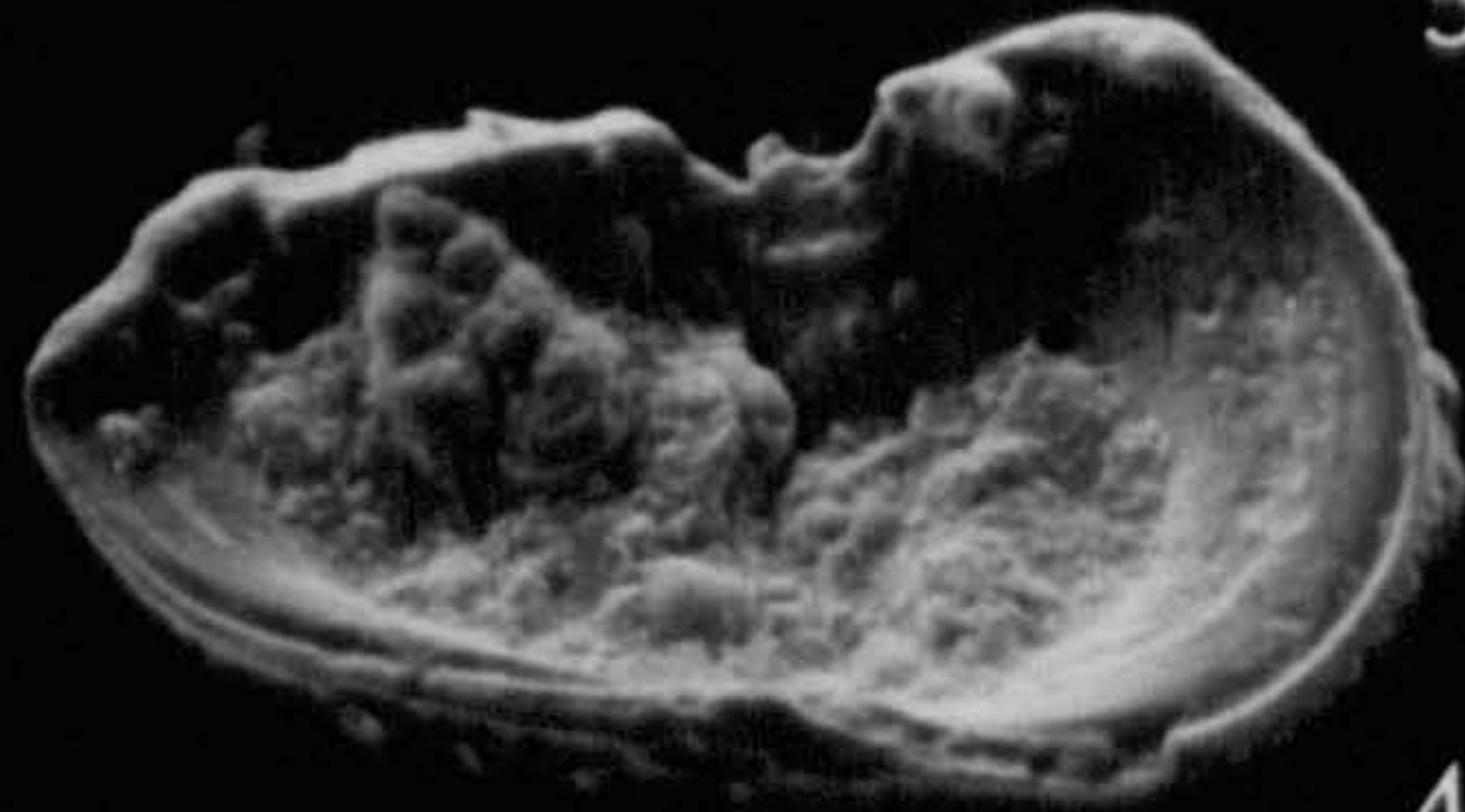
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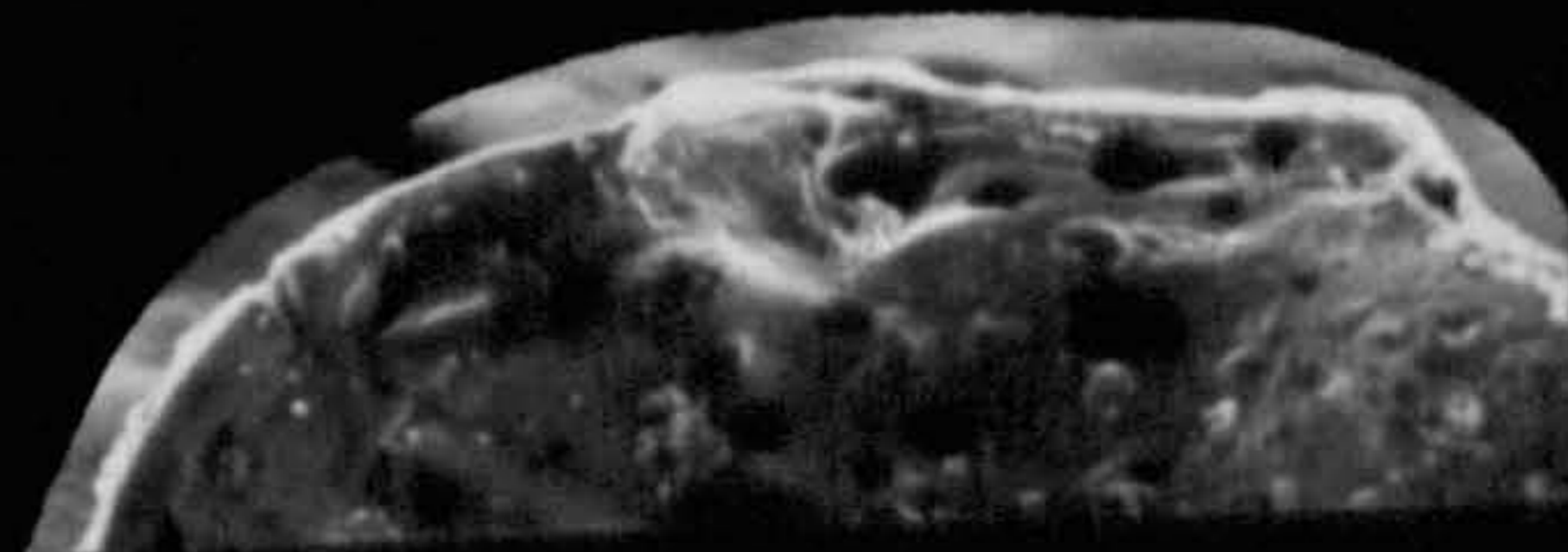
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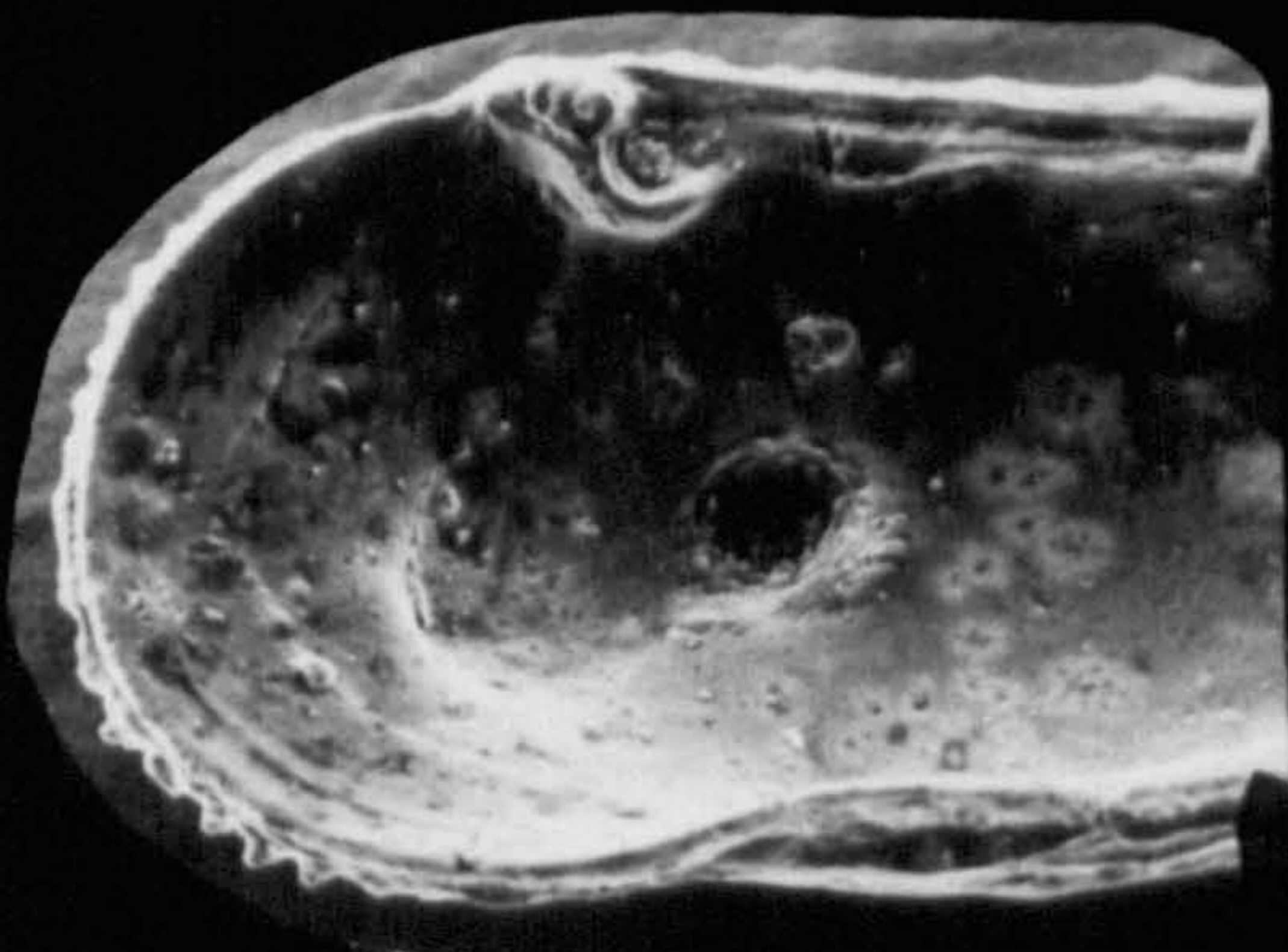
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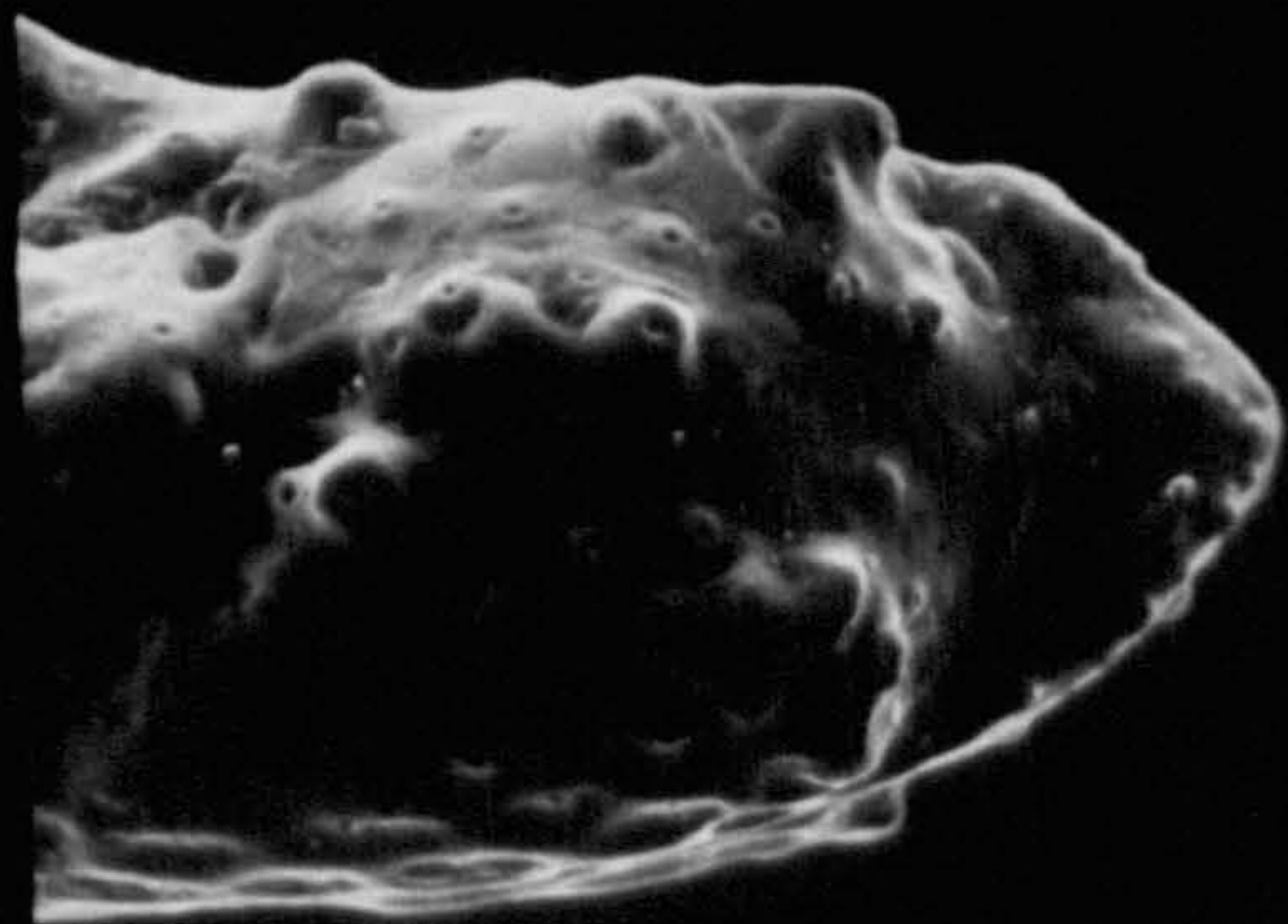
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6

EXPLANATION OF PLATE - 41

Actinocythereis iraqensis Khalaf, 1982.

All specimens from East Baghdad Well-3.

Fig. 1- Carapace, left valve, external, lateral view, (J.T. 236), stereoscopic paired photographs; drilling depth 2692 m; X54.

Fig. 2- Carapace, right valve, external, lateral view, (J.T. 236), stereoscopic paired photographs; drilling depth 2692 m; X54.

Fig. 3- Carapace, right valve, external, lateral view, (J.T. 235); drilling depth 2806 m; X73.

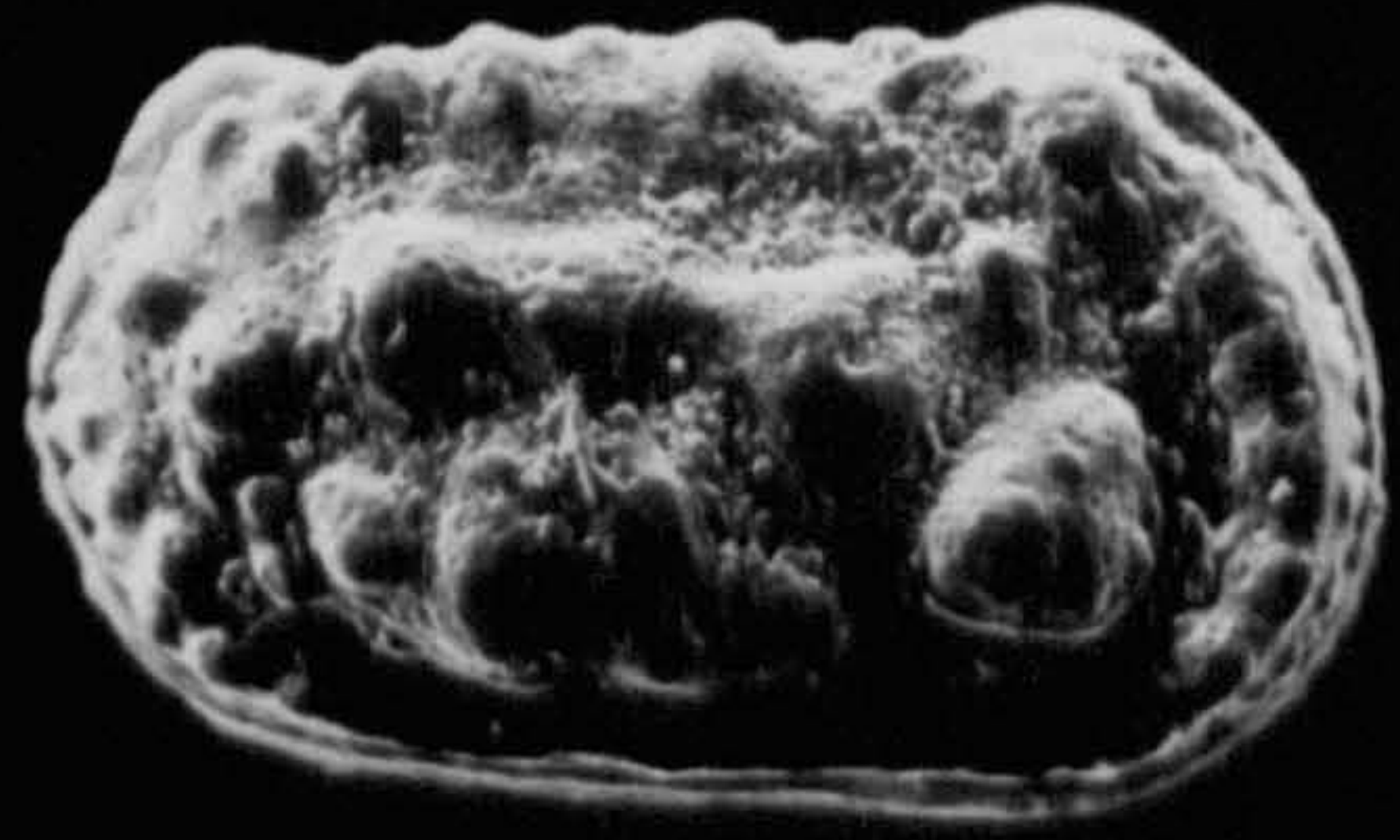
Fig. 4- Carapace, external, dorsal view, (J.T. 235); drilling depth 2806 m; X66.

Fig. 5- Carapace, external, ventral view, (J.T. 236); drilling depth 2806 m; X65.

PLATE-41



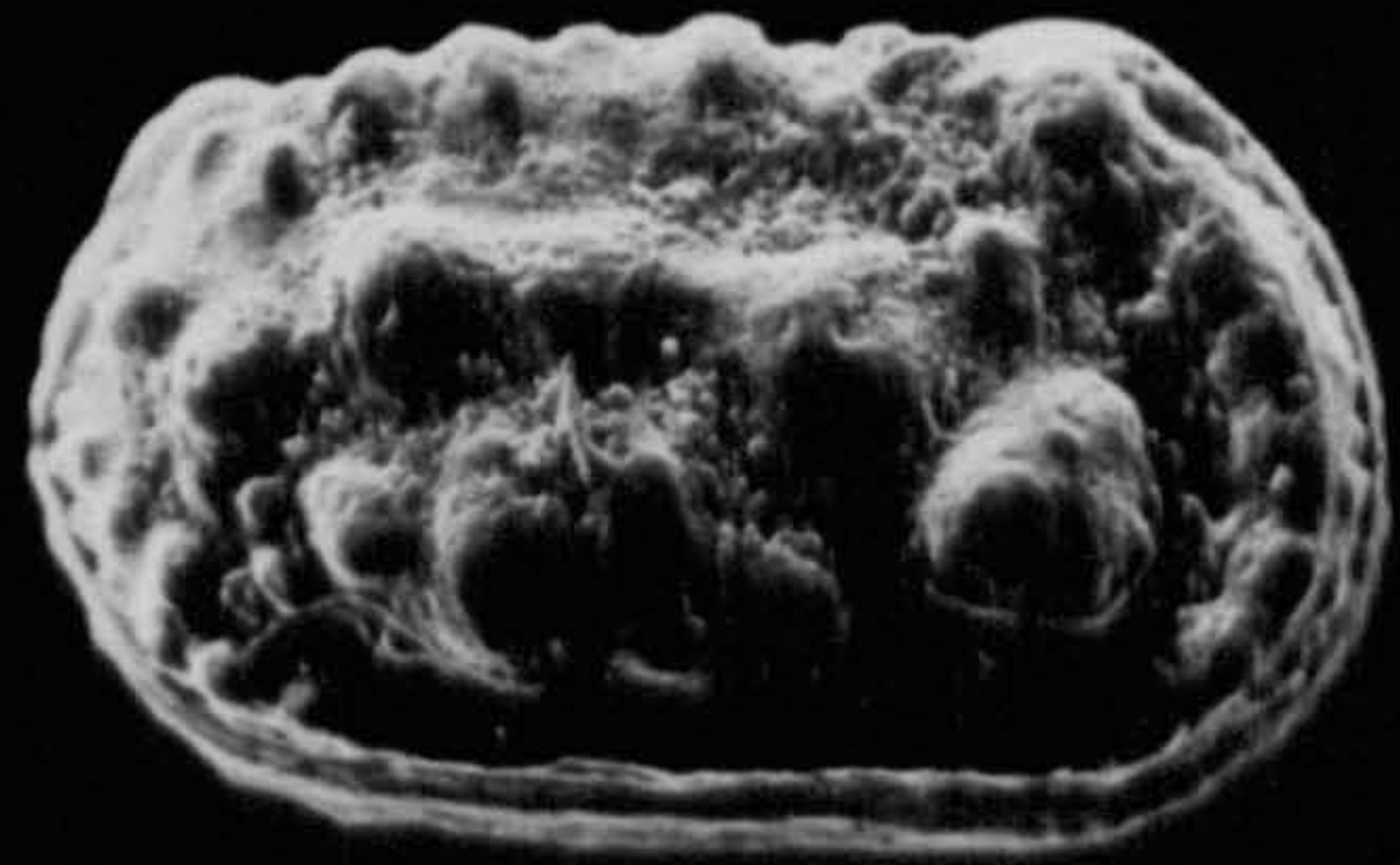
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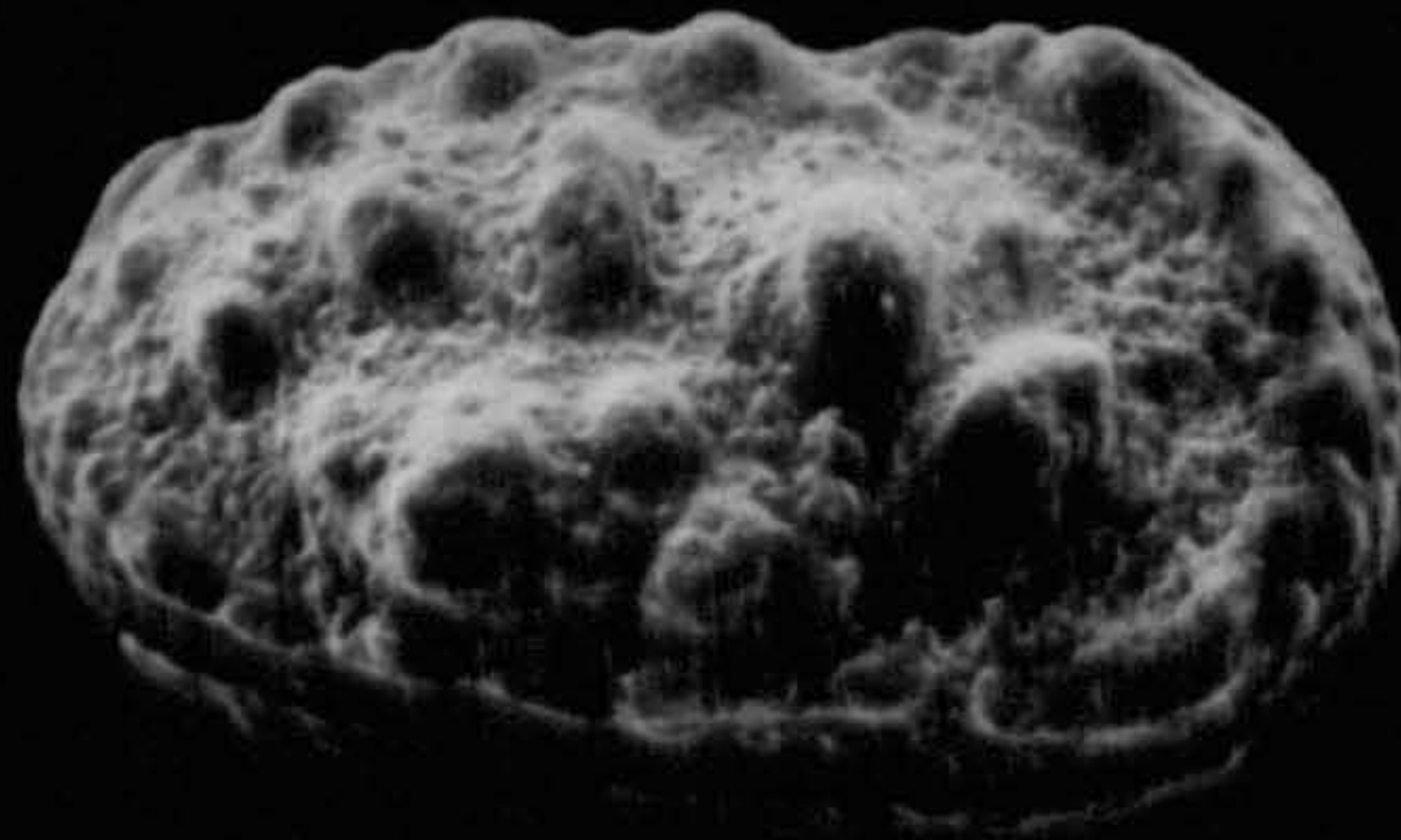
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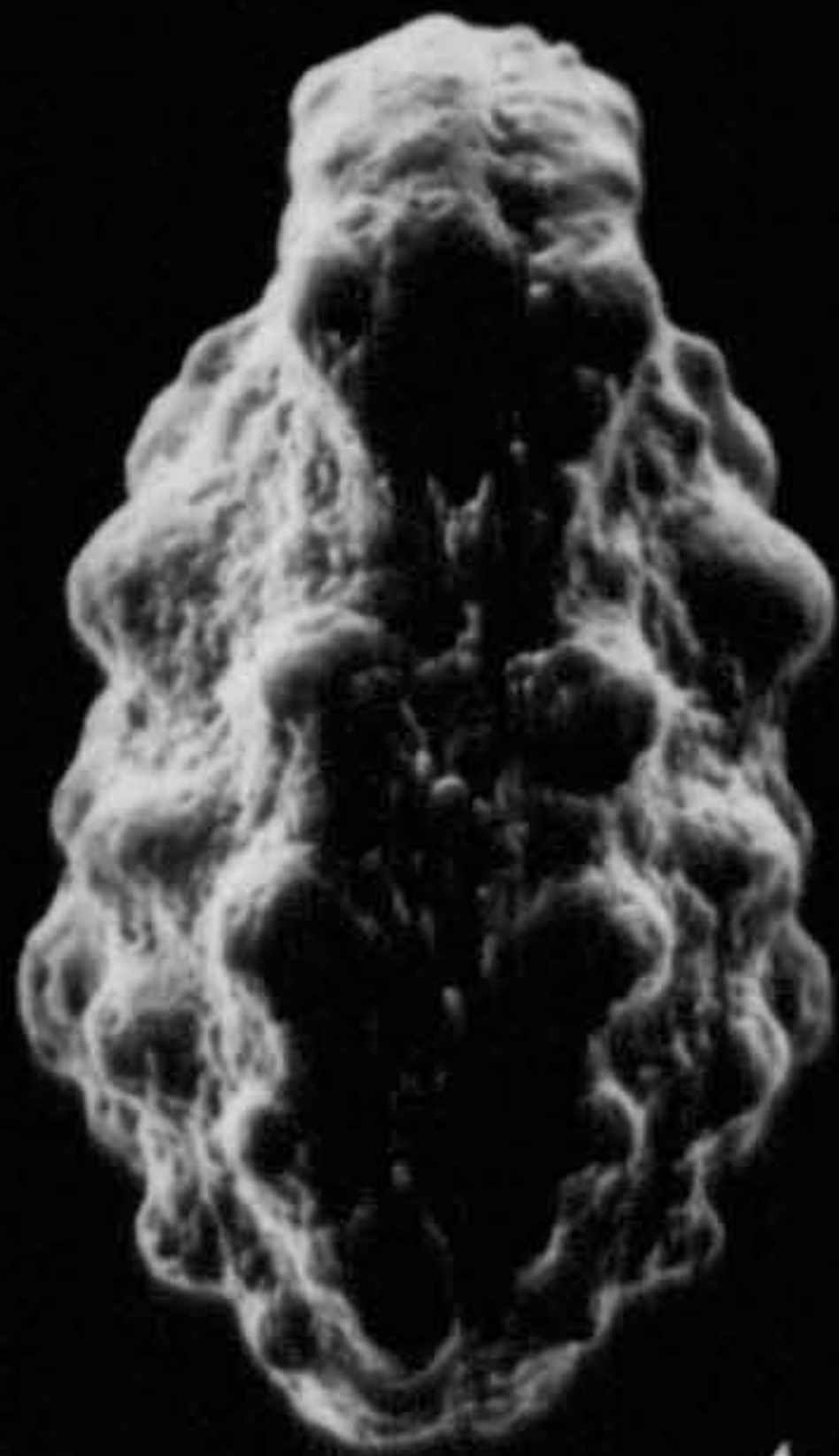
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5

EXPLANATION OF PLATE - 42

Dumontina ? alfarhidii sp. nov.

Fig. 1- Female carapace, left valve, external, lateral view, (paratype J.T. 245), stereoscopic paired photographs; Kifl Well-2, drilling depth 4585 ft; X85.

Fig. 2- Female carapace, right valve, external, lateral view, (paratype J.T. 237), stereoscopic paired photographs; Kifl Well-2, drilling depth 4530 ft; X80.

Fig. 3- Female carapace, left valve, external, lateral view, (holotype J.T. 243), stereoscopic paired photographs; Kifl Well-2, drilling depth 4585 ft; X79.

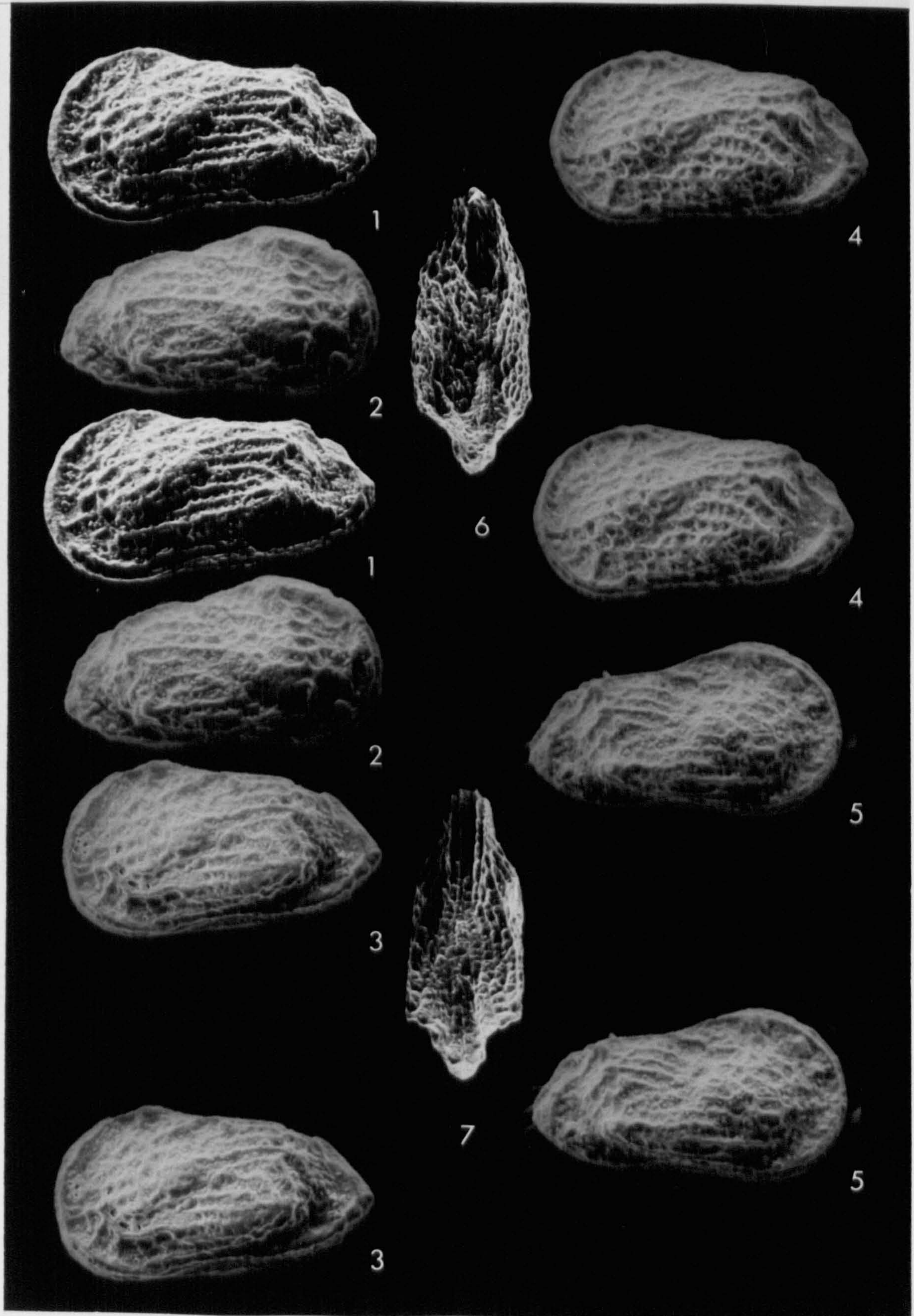
Fig. 4- Female carapace, left valve, external, lateral view, (paratype J.T. 244), stereoscopic paired photographs; Safawi Well-1, drilling depth 3250 ft; X86.

Fig. 5- Female carapace, right valve, external, lateral view, (paratype J.T. 246), stereoscopic paired photographs; Kifl Well-2, drilling depth 4540 ft; X80.

Fig. 6- Female carapace, external, dorsal view, (paratype J.T. 240); Kifl Well-2, drilling depth 4580 ft; X76.

Fig. 7- Female carapace, external, ventral view, (paratype J.T. 246); Kifl Well-2, drilling depth 4540 ft; X74.

PLATE-42



EXPLANATION OF PLATE - 43

Dumontina ? aff. alfarhidii sp. nov.

All specimens from Kifl Well-2.

Fig. 1- Female carapace, left valve, external, lateral view, (J.T. 247), stereoscopic paired photographs; drilling depth 5255 ft; X84.

Fig. 2- Female carapace, right valve, external, lateral view, (J.T. 247), stereoscopic paired photographs; drilling depth 5255 ft; X82.

Fig. 3- Female carapace, external, ventral view, (J.T. 247); drilling depth 5255 ft; X74.

Dumontina ? ibnmadjidi sp. nov.

All specimens from Kifl Well-2.

Fig. 4- Carapace, left valve, external, lateral view, (holotype J.T. 248), stereoscopic paired photographs; drilling depth 4375 ft; X83.

Fig. 5- Carapace, right valve, external, lateral view, (holotype J.T. 248), stereoscopic paired photographs; drilling depth 4375 ft; X80.

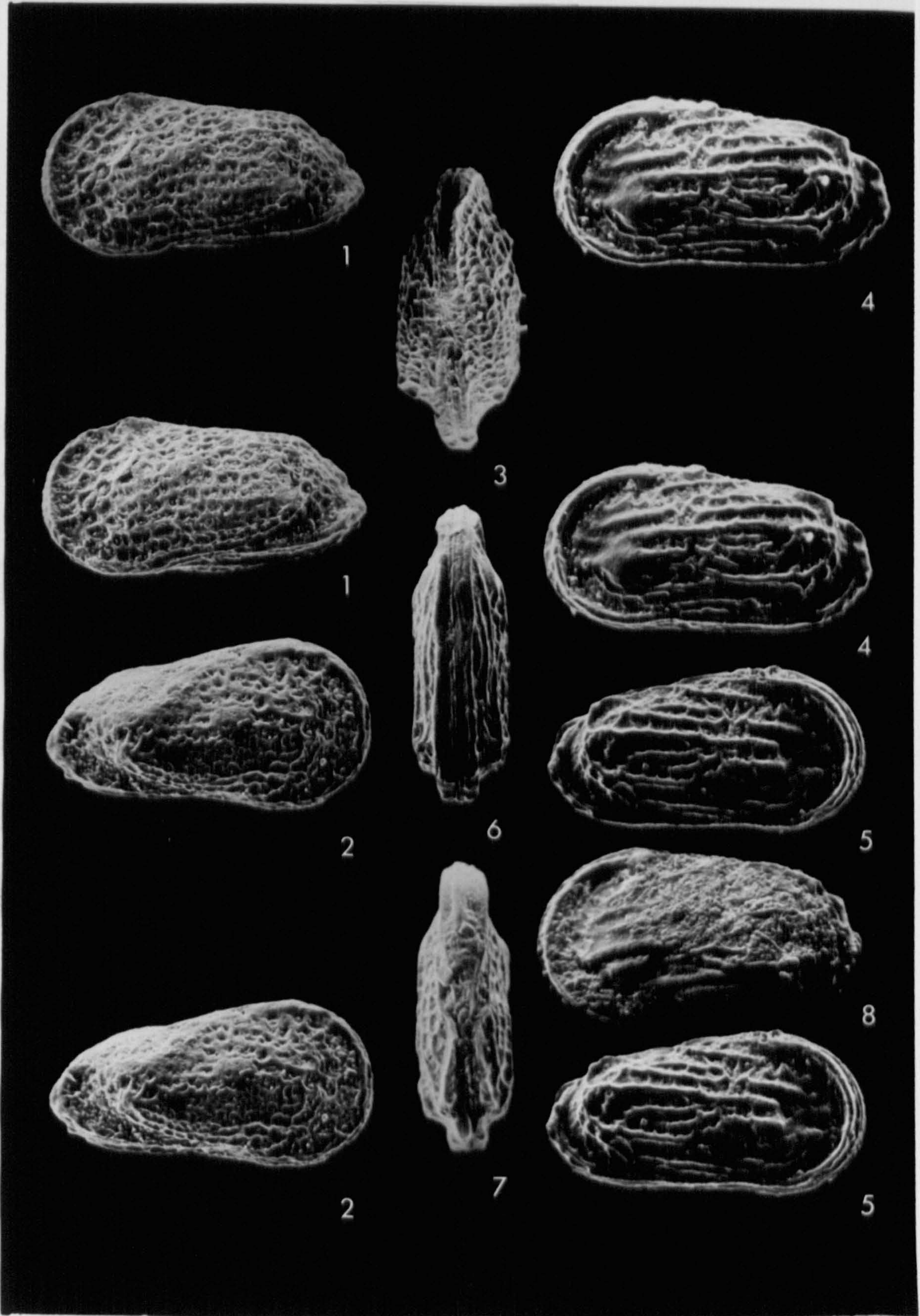
Fig. 6- Carapace, external, ventral view, (holotype J.T. 248); drilling depth 4375 ft; X73.

Fig. 7- Carapace, external, lateral view, dorsal view, (holotype J.T. 248); drilling depth 4375 ft; X71.

Dumontina ? cf. ibnmadjidi sp. nov.

Fig. 8- Carapace, left valve, external, lateral view, (J.T. 250); East Baghdad Well-3, drilling depth 2282 m; X84.

PLATE-43



EXPLANATION OF PLATE - 44

Dumontina ? mdaouerensis (Bassoullet & Damotte, 1969).

Fig. 1- Female carapace, left valve, external, lateral view, (J.T. 259), stereoscopic paired photographs; Safawi Well-1, drilling depth 3255 ft; X87.

Fig. 2- Female carapace, left valve, external, lateral view, (J.T. 257), stereoscopic paired photographs; Safawi Well-1, drilling depth 3270 ft; X89.

Fig. 3- Female carapace, right valve, external, lateral view, (J.T. 259), stereoscopic paired photographs; Safawi Well-1, drilling depth 3255 ft; X89.

Fig. 4- Male carapace, left valve, external, lateral view, (J.T. 253), stereoscopic paired photographs; Ghalaisan Well-1, drilling depth 4310 ft; X68.

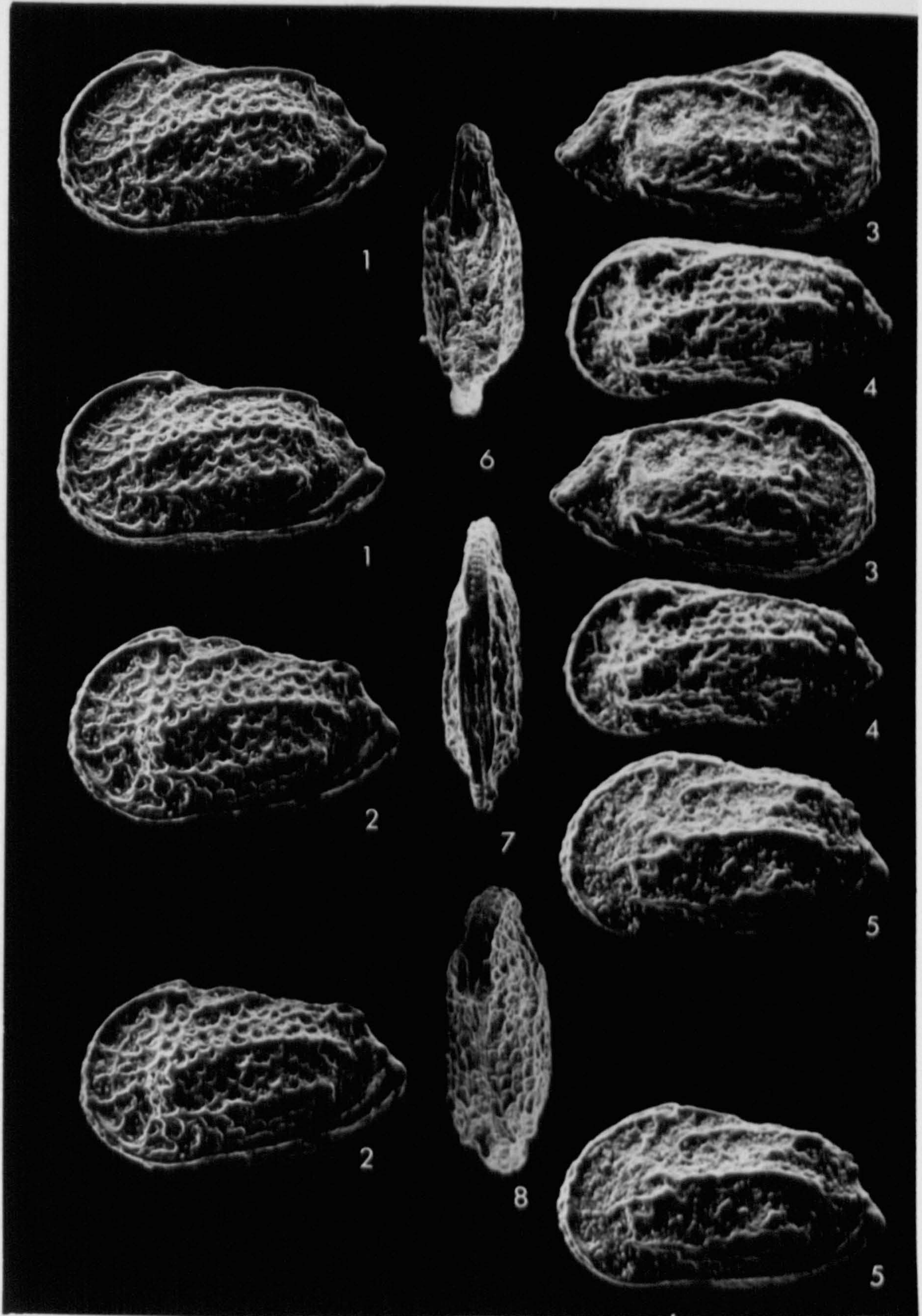
Fig. 5- Female carapace, left valve, external, lateral view, (J.T. 258), stereoscopic paired photographs; Safawi Well-1, drilling depth 3255 ft; X89.

Fig. 6- Female carapace, external, dorsal view, (J.T. 255); Ghalaisan Well-1, drilling depth 3820 ft; X82.

Fig. 7- Male carapace, external, ventral view, (J.T. 251); Ghalaisan Well-1, drilling depth 4310 ft; X64.

Fig. 8- Male carapace, external, dorsal view, (J.T. 254); South Rumaila Well-104, drilling depth 2429 m; X60.

PLATE-44



EXPLANATION OF PLATE - 45

Dumontina ? mdaouerensis (Bassoullet & Damotte, 1969).

Fig. 1- Female carapace, right valve, external, lateral view, (J.T. 258), stereoscopic paired photographs; Safawi Well-1, drilling depth 3255; X87.

Fig. 2- Male carapace, right valve, external, lateral view, (J.T. 252), stereoscopic paired photographs; Ghalaïsan Well-1, drilling depth 3850 ft; X72.

Fig. 3- Female carapace, external, ventral view, (J.T. 259); Safawi Well-1, drilling depth 3255 ft; X77.

Dumontina ? sp. A

Fig. 4- Carapace, right valve, external, lateral view, (J.T. 261), stereoscopic paired photographs; South Rumaila Well-104, drilling depth 2398 m; X77.

Fig. 5- Carapace, left valve, external, lateral view, (J.T. 261), stereoscopic paired photographs; South Rumaila Well-104, drilling depth 2398 m, X78.

Fig. 6- Carapace, external, dorsal view, (J.T. 261); South Rumaila Well-104, drilling depth 2398 m; X69.

PLATE-45



EXPLANATION OF PLATE - 46

Glenocythere bahreinensis Al-Abdul-Razzaq, 1979.

All specimens from South Rumaila Well-104.

Fig. 1- Female carapace, right valve, external, lateral view, (J.T. 263), stereoscopic paired photographs; drilling depth 2794 m; X58.

Fig. 2- Male carapace, right valve, external, lateral view, (J.T. 262), stereoscopic paired photographs; drilling depth 2774 m; X54.

Fig. 3- Male carapace, left valve, external, lateral view; (J.T. 262); drilling depth 2774 m; X55.

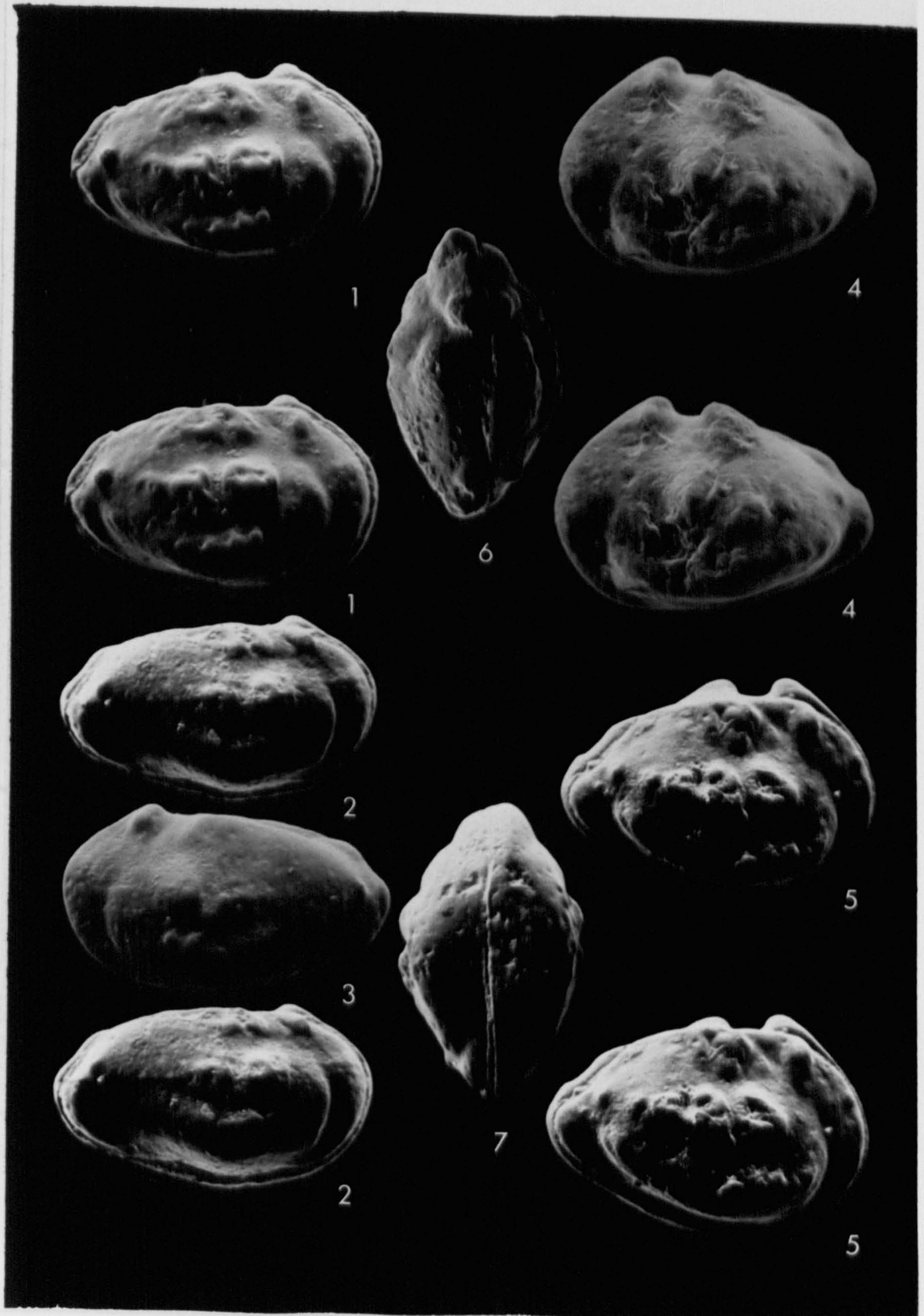
Fig. 4- Female carapace, left valve, external, lateral view, (J.T. 268), stereoscopic paired photographs; drilling depth 2768 m; X86.

Fig. 5- Female carapace, right valve, external, lateral view, (J.T. 268), stereoscopic paired photographs; drilling depth 2768 m; X55.

Fig. 6- Female carapace, external, dorsal view, (J.T. 265); drilling depth 2774 m; X64.

Fig. 7- Female carapace, external, ventral view, (J.T. 263); drilling depth 2794; X53.

PLATE-46



EXPLANATION OF PLATE - 47

Glenocythere aff. bahreinensis Al-Abdul-Razzaq, 1979.

All specimens from South Rumaila Well-104.

Fig. 1- Female carapace, left valve, external, lateral view, (J.T. 270), stereoscopic paired photographs; drilling depth 2786 m; X63.

Fig. 2- Male carapace, right valve, external, lateral view, (J.T. 269), stereoscopic paired photographs; drilling depth 2788 m; X55.

Fig. 3- Female carapace, right valve, external, lateral view, (J.T. 271), stereoscopic paired photographs; drilling depth 2786 m; X61.

Fig. 4- Female carapace, external, ventral view, (J.T. 270); drilling depth 2786; X56.

Fig. 5- Male carapace, external, dorsal view, (J.T. 269; drilling depth 2788 m; X51.

PLATE-47



EXPLANATION OF PLATE - 48

All specimens from South Rumaila Well-104.

Glenocythere reticulata Al-Abdul-Razzaq, 1979.

Fig. 1- Male carapace, left valve, external, lateral view, (J.T. 272), stereoscopic paired photographs; drilling depth 2786 m; X61.

Fig. 2- Male carapace, right valve, external, lateral view, (J.T. 272), stereoscopic paired photographs; drilling depth 2786 m; X61.

Fig. 3- Male carapace, external, dorsal view, (J.T. 272); drilling depth 2786 m; X56.

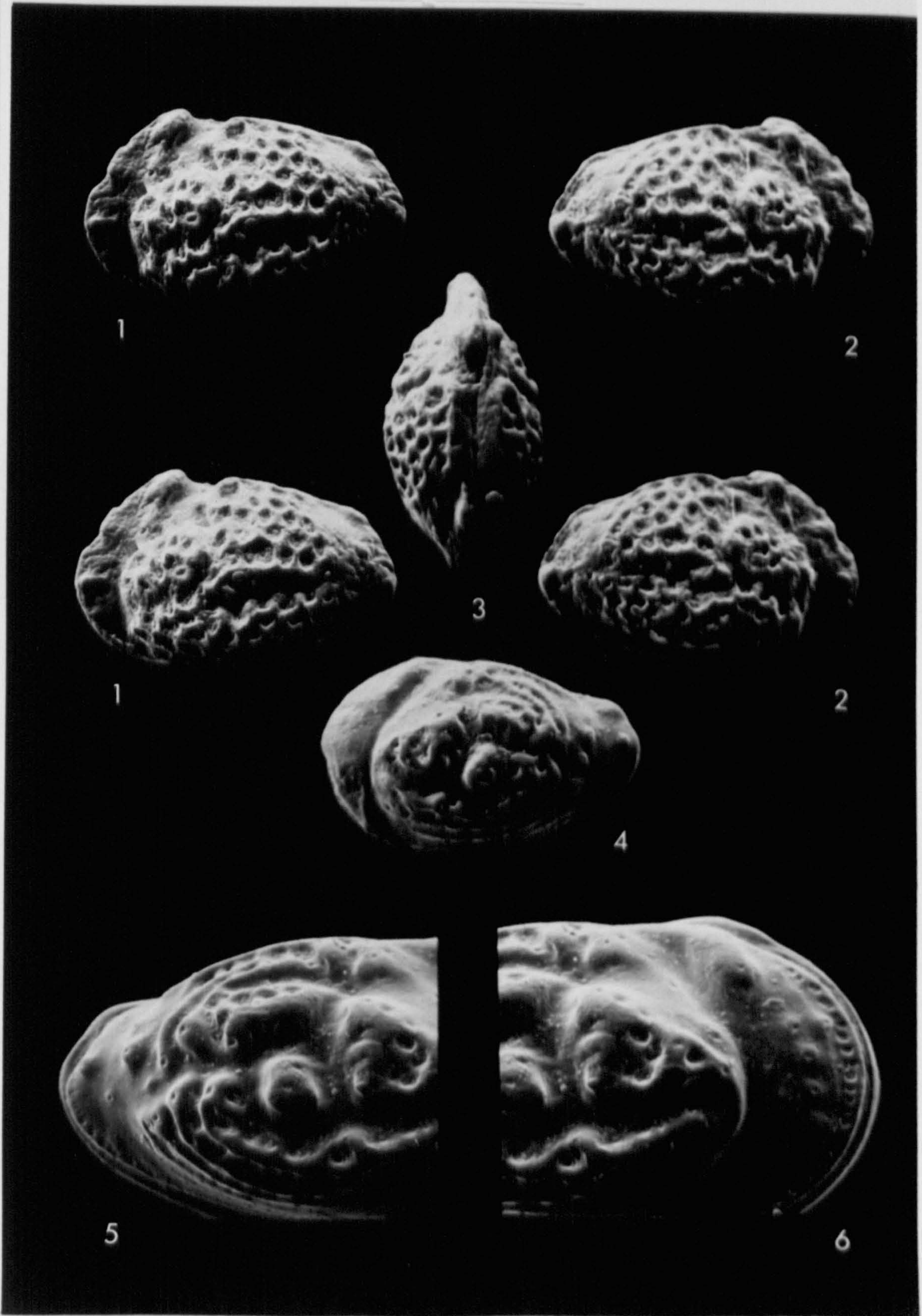
Glenocythere ? rumailaensis sp. nov.

Fig. 4- Female carapace, left valve, external, lateral view, (paratype J.T. 277); drilling depth 2688 m; X60.

Fig. 5- Female carapace, right valve, external, postero-lateral view, (paratype J.T. 276); drilling depth 2656 m; X71.

Fig. 6- Female carapace, right valve, external, antero-lateral view, (paratype J.T. 276); drilling depth 2656 m; X71.

PLATE-48



EXPLANATION OF PLATE - 49

Glenocythere ? rumailaensis sp. nov.

All specimens from South Rumaila Well-104.

Fig. 1- Female carapace, left valve, external, lateral view, (holotype J.T. 278), stereoscopic paired photographs; drilling depth 2788 m; X63.

Fig. 2- Male carapace, left valve, external, lateral view, (paratype J.T. 275); drilling depth 2666 m; X54.

Fig. 3- Male carapace, right valve, external, lateral view, (paratype J.T. 273), stereoscopic paired photographs; drilling depth 2658 m; X56.

Fig. 4- Female carapace, right valve, external, lateral view, (paratype J.T. 276), stereoscopic paired photographs; drilling depth 2656 m; X63.

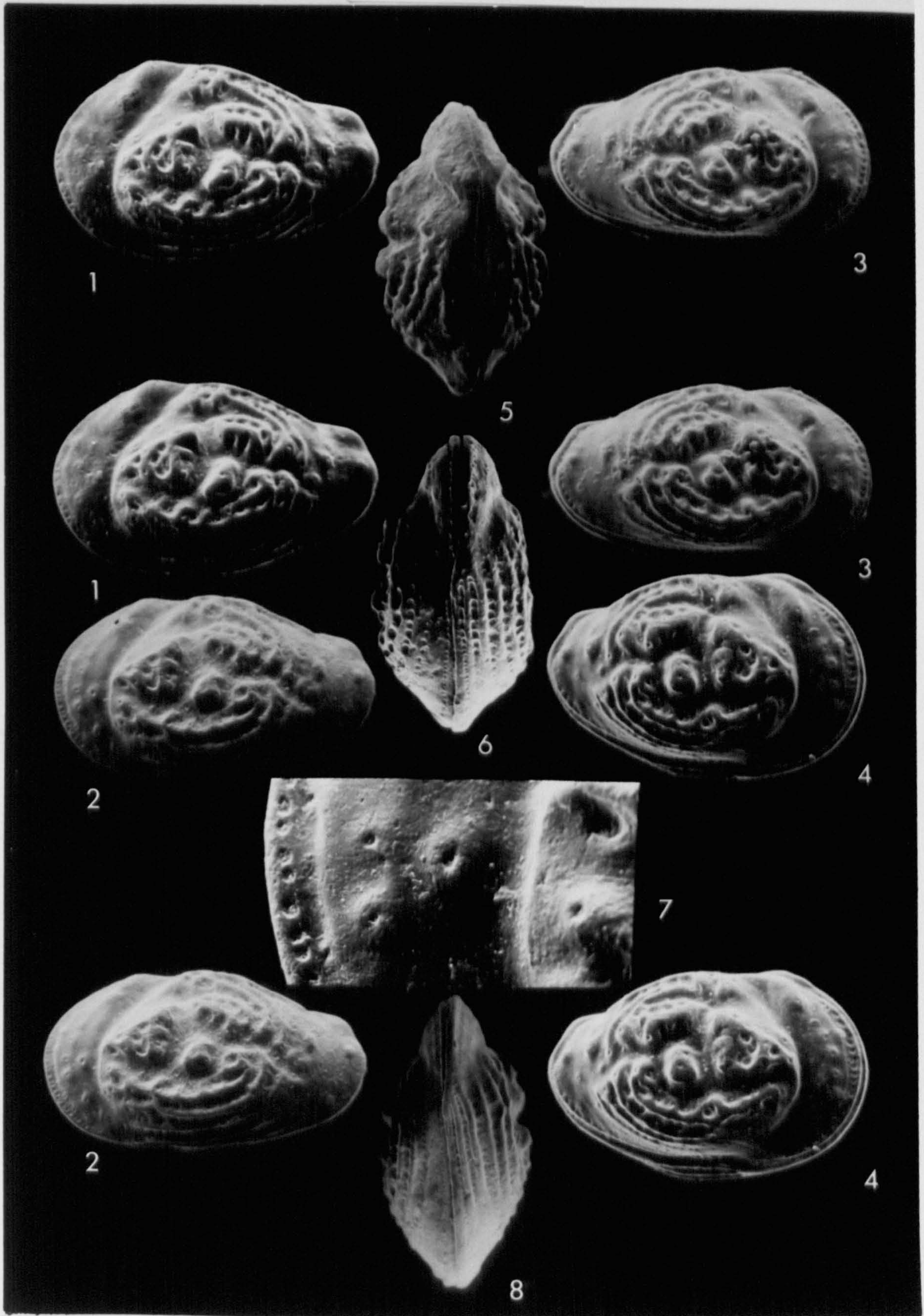
Fig. 5- Female carapace, external, dorsal view, (paratype J.T. 274); drilling depth 2686 m; X55.

Fig. 6- Female carapace, external, ventral view, (paratype J.T. 279); drilling depth 2664 m; X58.

Fig. 7- Male carapace, external, pore cones and circular pits along anterior margin, (paratype J.T. 275); drilling depth 2666 m; X61.

Fig. 8- Male Carapace, external, ventral view, (paratype J.T. 275); South Rumaila Well-104, drilling depth 2666 m; X47.

PLATE-49



EXPLANATION OF PLATE - 50

Iraqicythereis kadisiya gen. et sp. nov.

Morphotype No. 1

All specimens from South Rumaila Well-104.

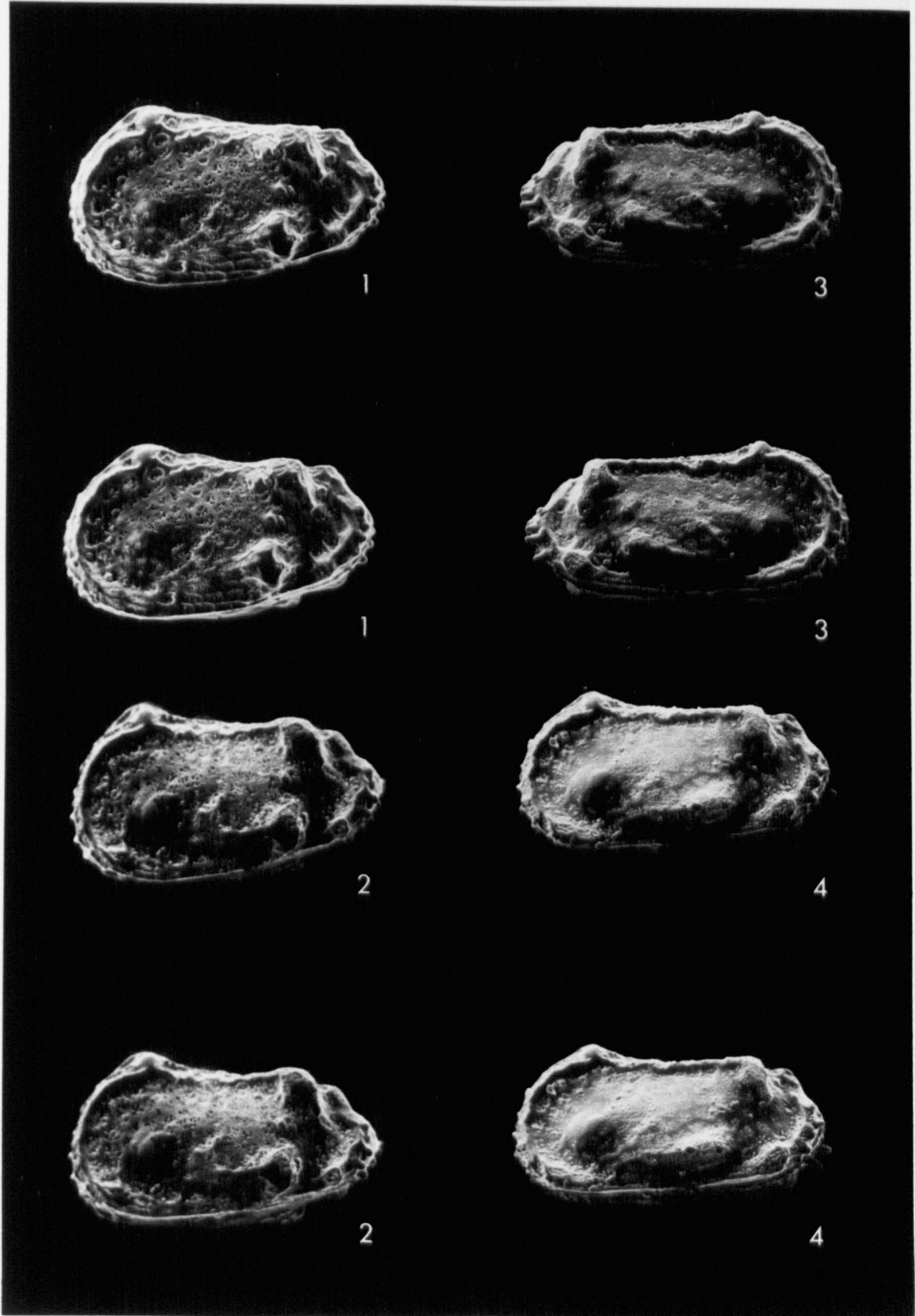
Fig. 1- Female carapace, left valve, external, lateral view, (holotype J.T. 286), stereoscopic photographs; drilling depth 2392 m; X86.

Fig. 2- Female carapace, left valve, external, lateral view, (paratype J.T. 281), stereoscopic paired photographs; drilling depth 2416 m; X90.

Fig. 3- Male carapace, right valve, external, lateral view, (paratype J.T. 303), stereoscopic paired photographs; drilling depth 2379 m; X83.

Fig. 4- Male carapace, left valve, external, lateral view, (paratype J.T. 304), stereoscopic paired photographs; drilling depth 2342 m; X81.

PLATE-50



EXPLANATION OF PLATE - 51

Iraqicythereis kadisiya gen. et sp. nov.

Morphotype No. 1

All specimens from South Rumaila Well-104.

Fig. 1- Female carapace, left valve, external, lateral view, (paratype J.T. 294), stereoscopic paired photographs; drilling depth 2418 m; X97.

Fig. 2- Female carapace, right valve, external, lateral view, (paratype J.T. 292), stereoscopic paired photographs; drilling depth 2421 m; X90.

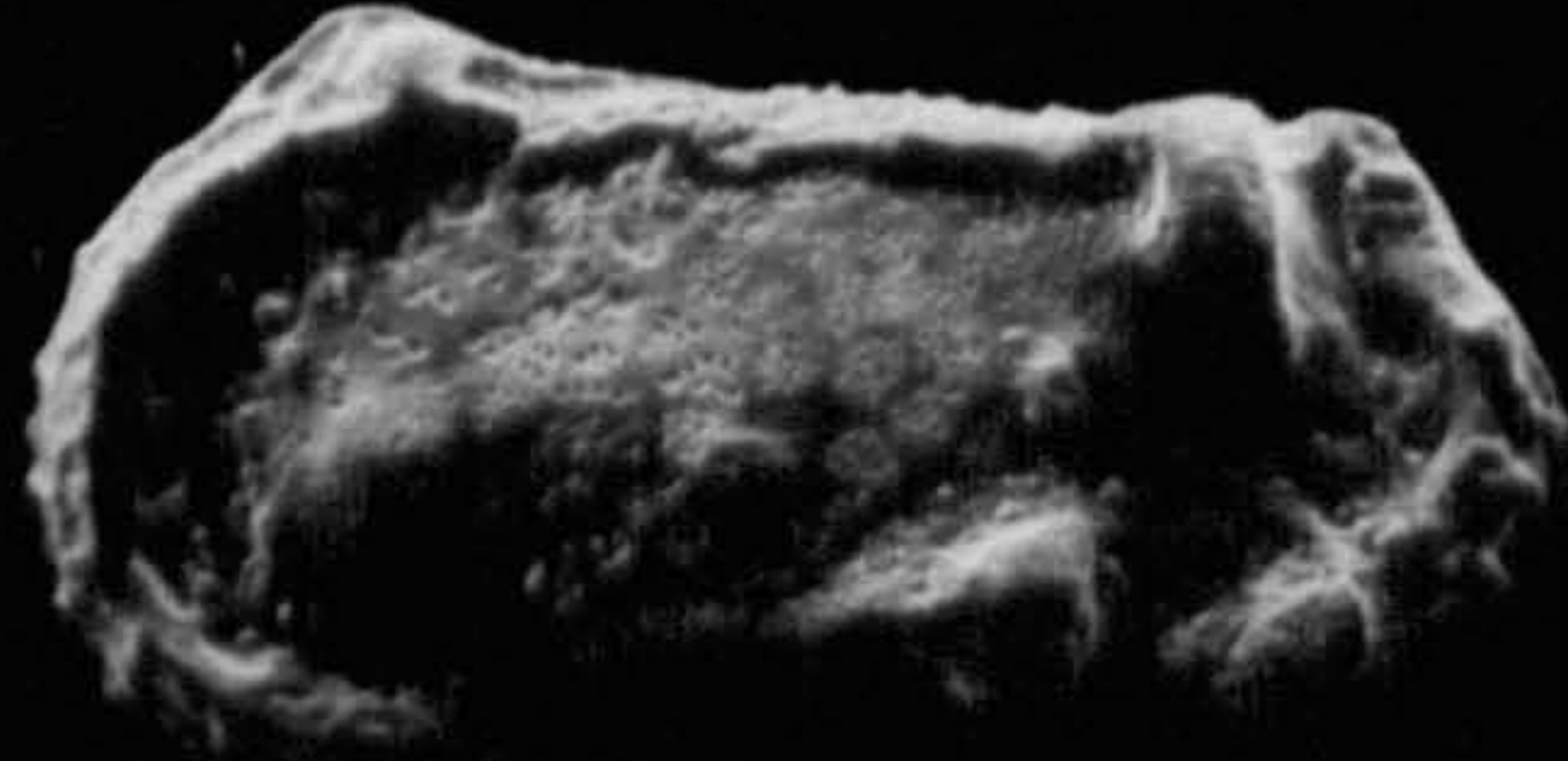
Fig. 3- Male carapace, left valve, external, lateral view, (paratype J.T. 305), stereoscopic paired photographs; drilling depth 2424 m; X79.

Fig. 4- Female carapace, right valve, external, lateral view, surface ornamentation, (paratype J.T. 292), stereoscopic paired photographs; drilling depth 2421 m; X107.

PLATE-51



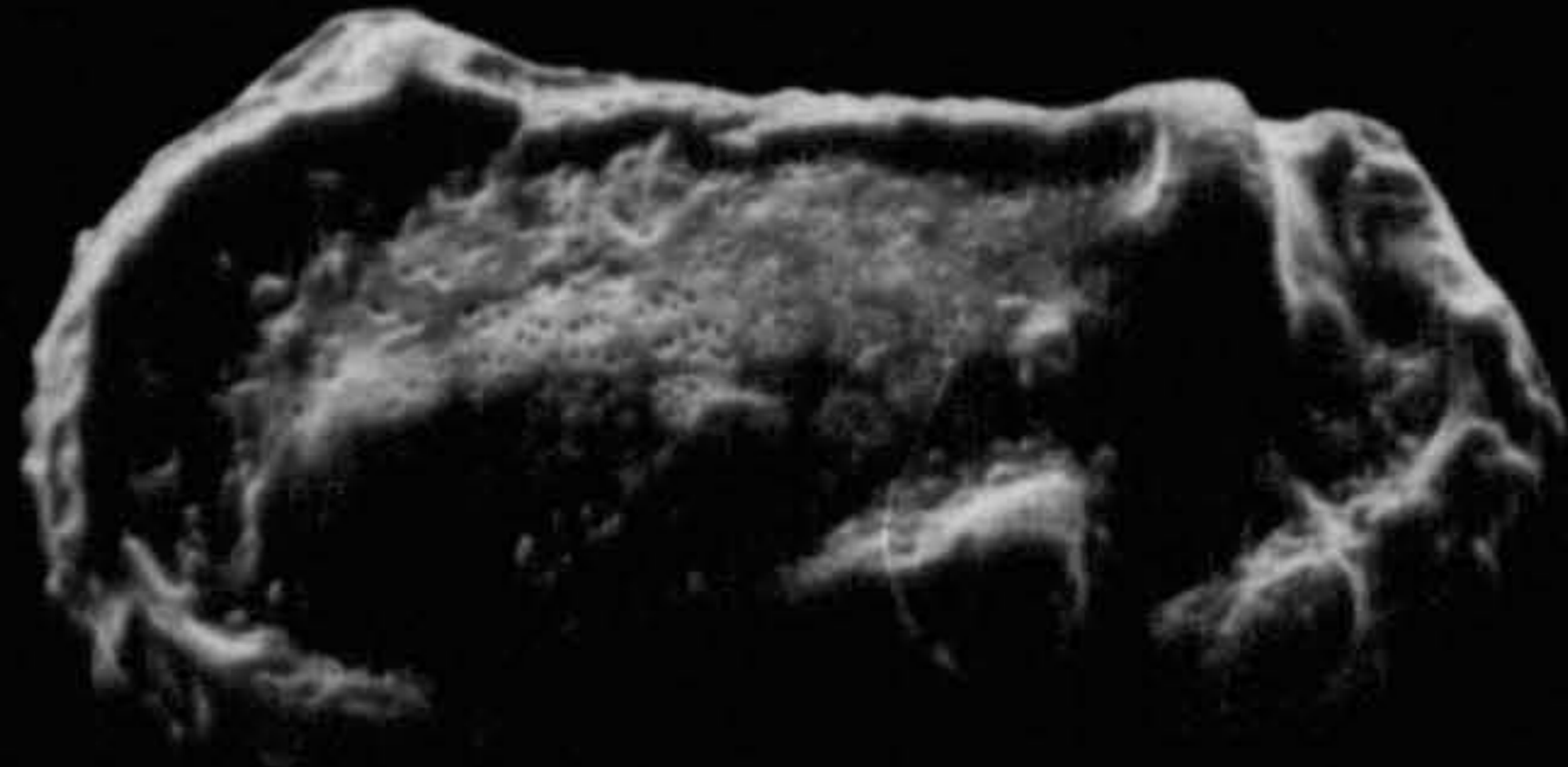
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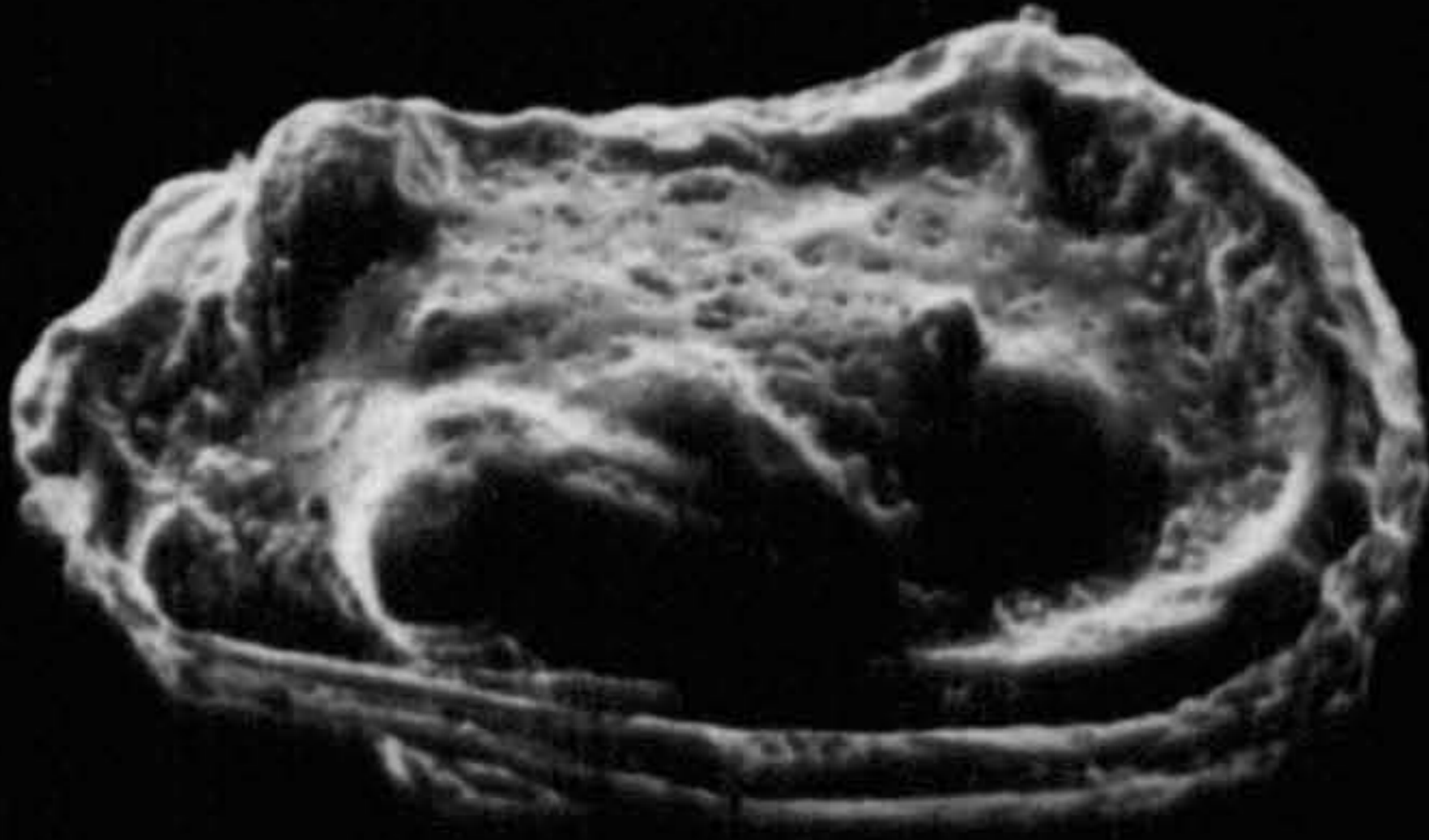
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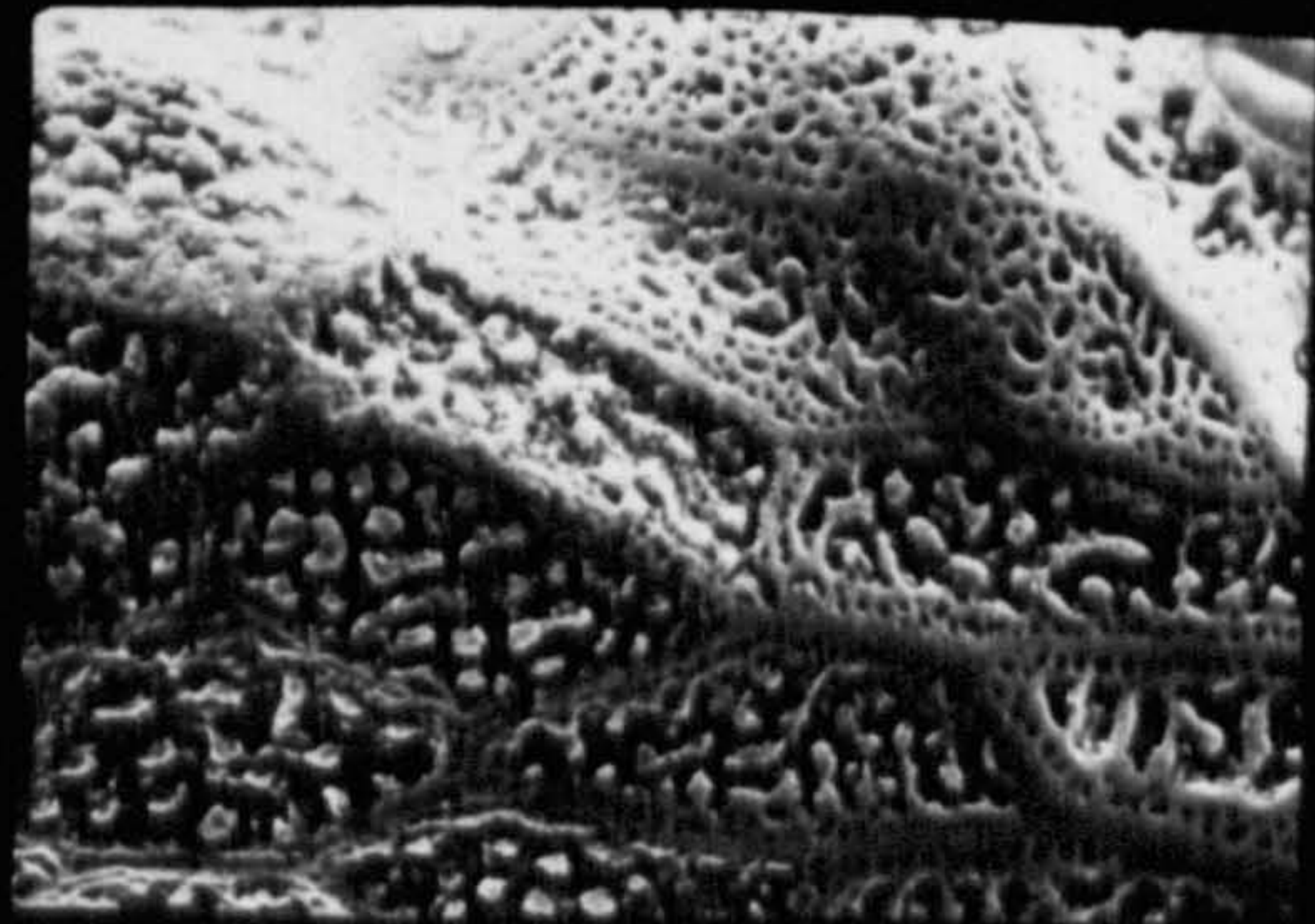
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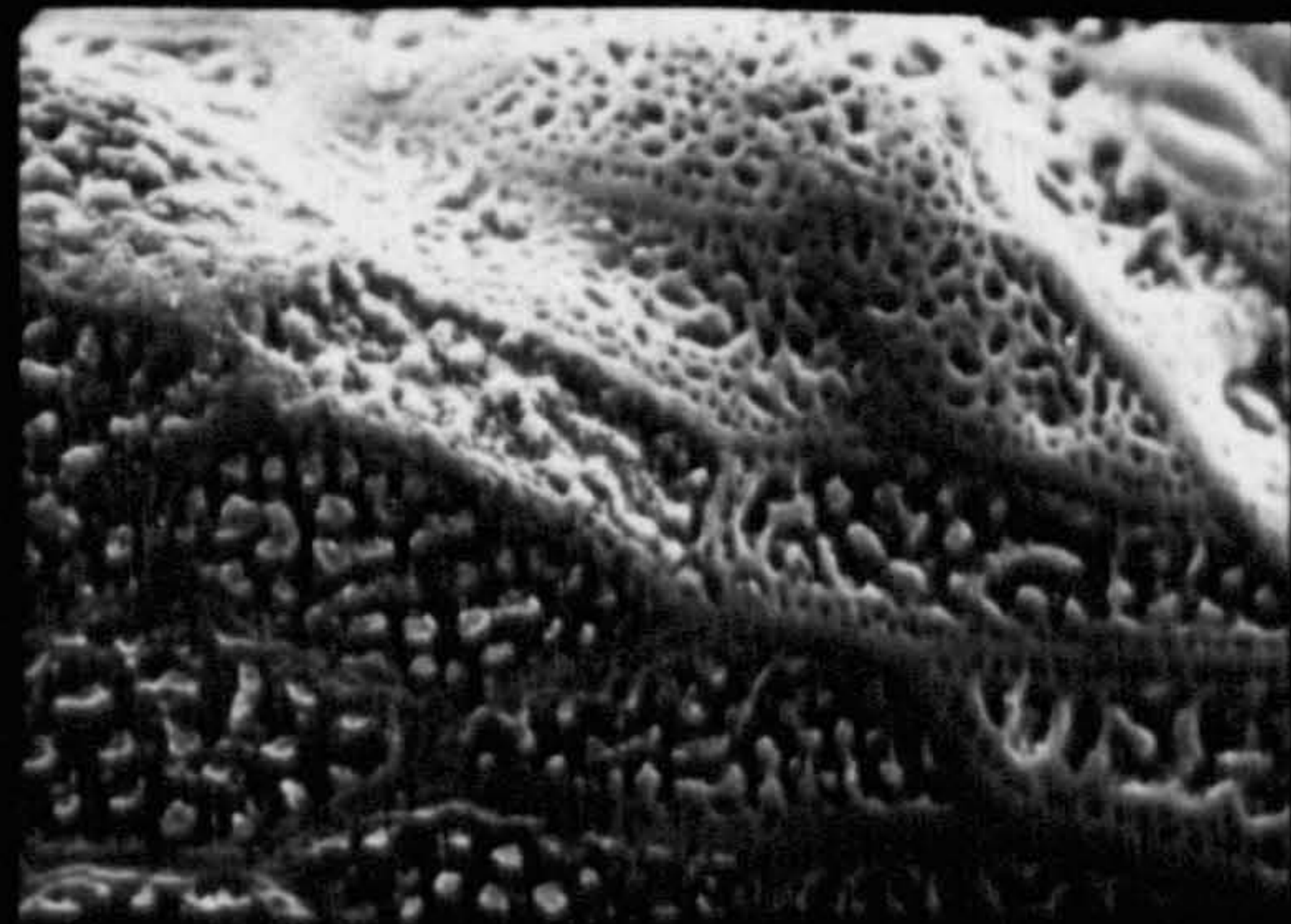
2



4



2



4

EXPLANATION OF PLATE - 52

Iraqicythereis kadisiya gen. et sp. nov.

Morphotype No. 1.

All specimens from South Rumaila Well-104.

Fig. 1- Female carapace, left valve, external, lateral view, (paratype J.T. 300), stereoscopic paired photographs; drilling depth 2358 m; X85.

Fig. 2 - Male carapace, left valve, external, lateral view, (paratype J.T. 301), stereoscopic paired photographs; drilling depth 2427 m; X85.

Fig. 3- Male carapace, right valve, external, lateral view, (paratype J.T. 301), stereoscopic paired photographs; drilling depth 2427 m; X81.

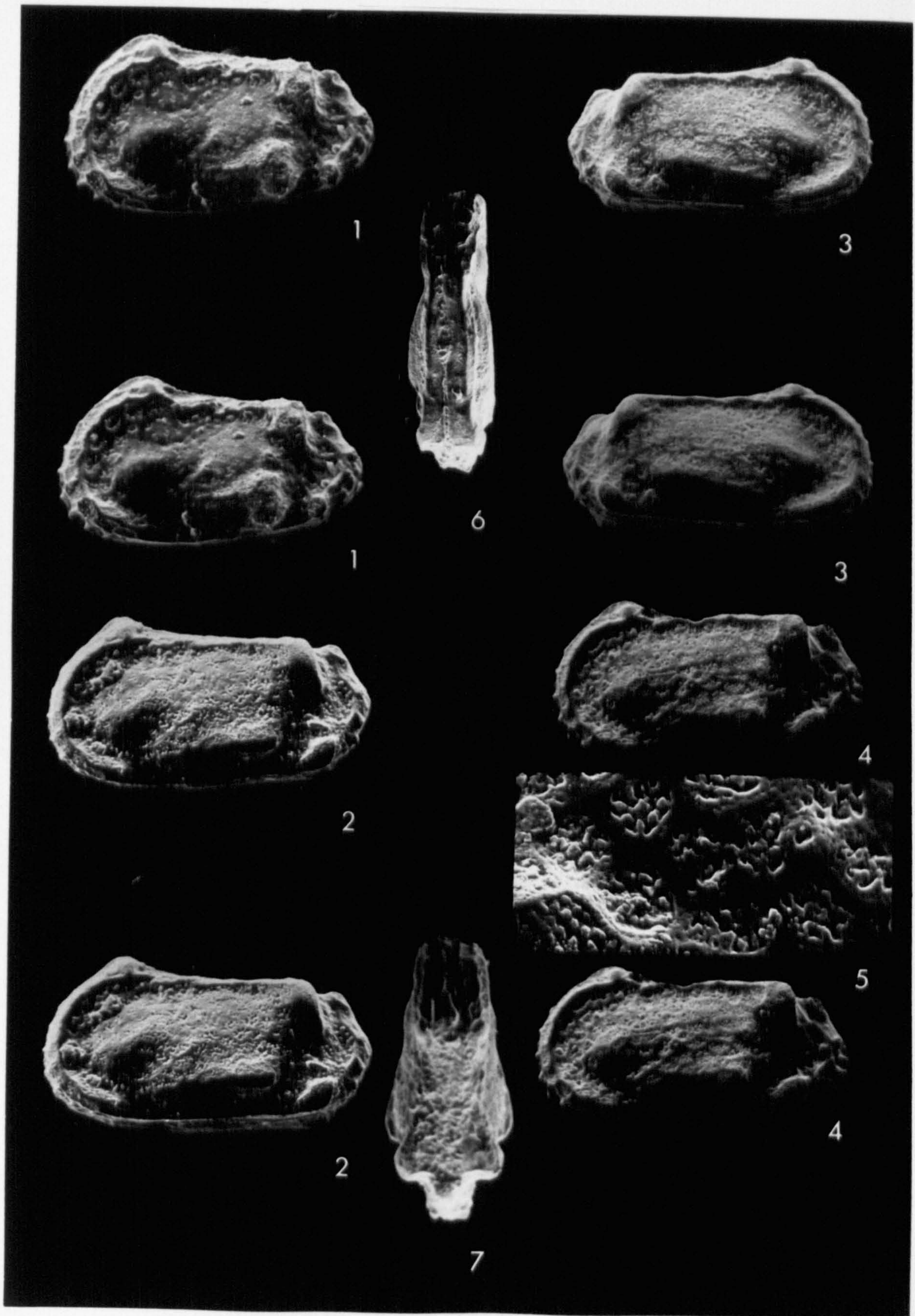
Fig. 4- Male carapace, left valve, external, lateral view, (paratype J.T. 306), stereoscopic paired photographs; drilling depth 2348 m; X79.

Fig. 5- Female carapace, right valve, external, lateral view, surface ornamentation, (paratype J.T. 298); drilling depth 2429 m; X107.

Fig. 6- Male carapace, external, ventral view, (paratype J.T. 302); drilling depth 2424 m; X71.

Fig. 7- Female carapace, external, dorsal view, (paratype J.T. 293); drilling depth 2418 m; X79.

PLATE-52



EXPLANATION OF PLATE - 53

Iraqicythereis kadisiya gen. et sp. nov.

Morphotype No. 1

All specimens from South Rumaila Well-104.

Fig. 1- Female carapace, right valve, external, lateral view, (paratype J.T. 298), stereoscopic paired photographs; drilling depth 2429 m; X88.

Fig. 2- Female carapace, right valve, external, lateral view, (paratype J.T. 283), stereoscopic paired photographs; drilling depth 2421 m; X85.

Fig. 3- Female carapace, left valve, external, lateral view, (paratype J.T. 291), stereoscopic paired photographs; drilling depth 2426 m; X93.

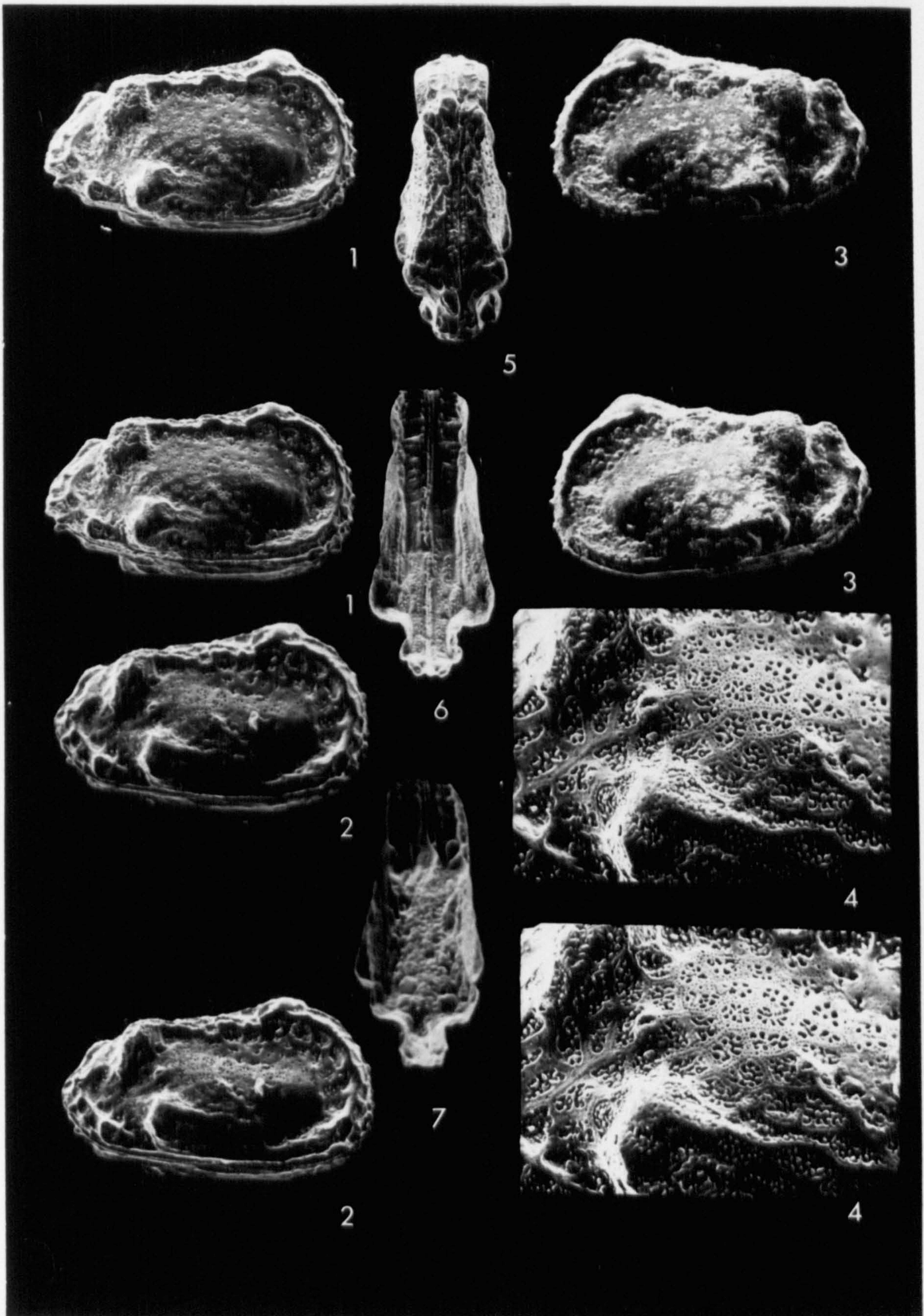
Fig. 4- Female carapace, right valve, external, lateral view, surface ornamentation, (paratype J.T. 283), stereoscopic paired photographs; drilling depth 2421 m; X103.

Fig. 5- Male carapace, external, dorsal view, (paratype J.T. 307); drilling depth 2424 m; X71.

Fig. 6- Female carapace, external, ventral view, (paratype J.T. 284); drilling depth 2429 m; X83.

Fig. 7- Female carapace, external, dorsal view, (paratype J.T. 298); drilling depth 2429 m; X80.

PLATE-53



EXPLANATION OF PLATE - 54

Iraqicythereis kadisiya gen. et sp. nov.

Morphotype No. 1

All specimens from South Rumaila Well-104.

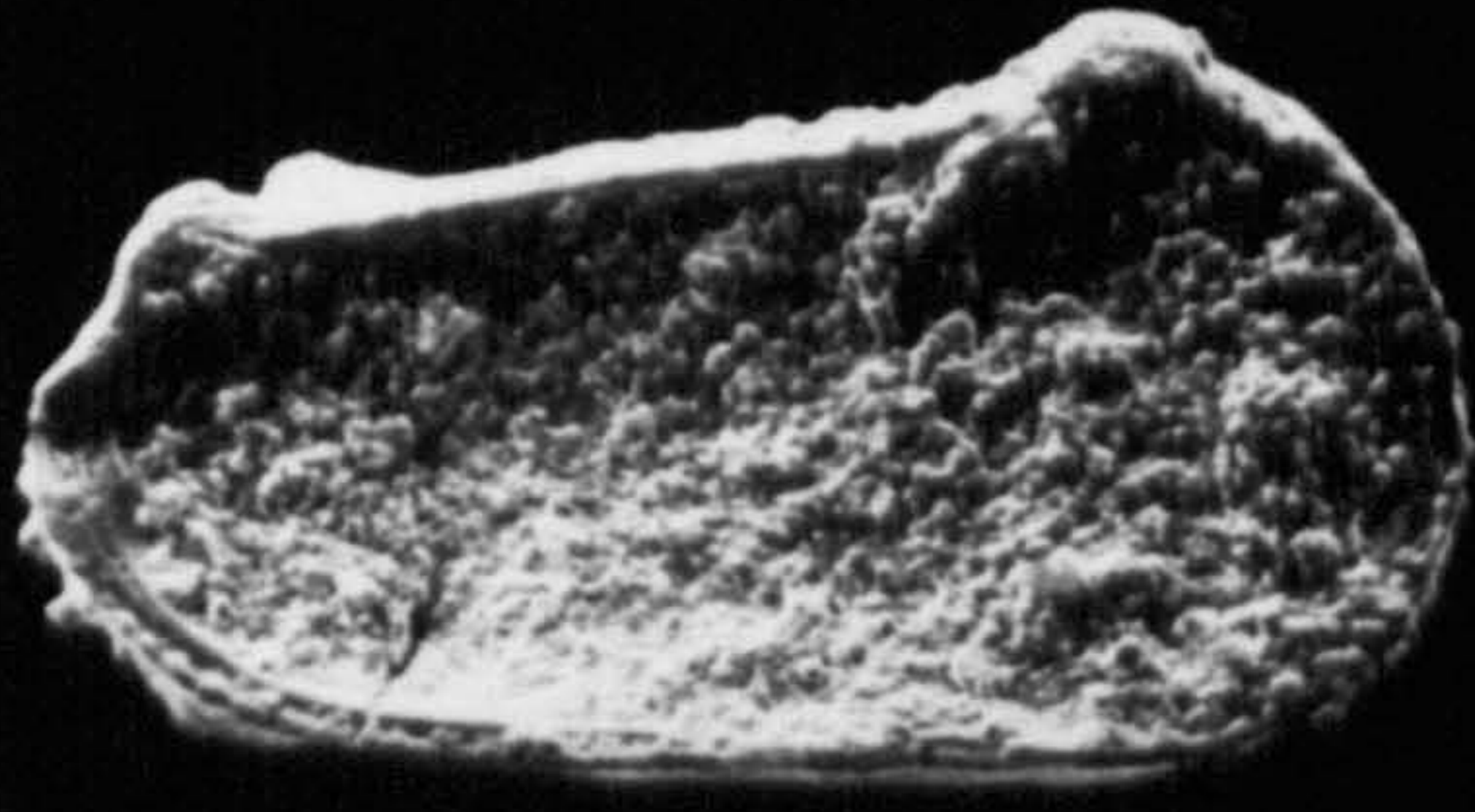
Fig. 1- Male left valve, internal, lateral view, (paratype J.T. 308), stereoscopic paired photographs; drilling depth 2421 m; X92.

Fig. 2- Female carapace, left valve, external, lateral view, central muscle scars, (holotype J.T.286), stereoscopic paired photographs; drilling depth 2392 m; X103.

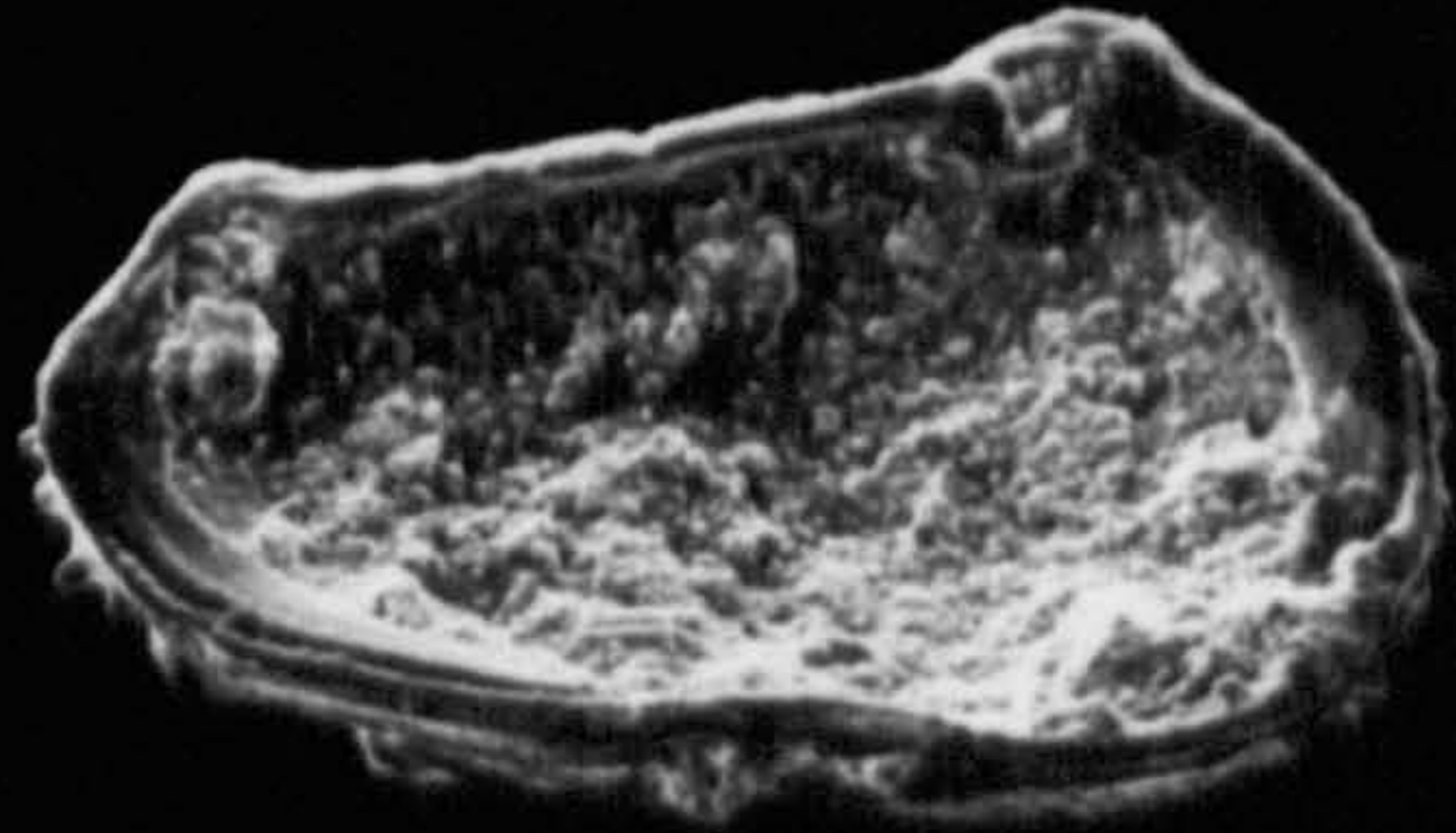
Fig. 3- Female left valve, internal, lateral view, (paratype J.T. 290), stereoscopic paired photographs; drilling depth 2429 m; X86.

Fig. 4- Female carapace, left valve, external, lateral view, surface ornamentation and central muscle scars, (holotype J.T. 286), stereoscopic paired photographs; drilling depth 2392 m; X103.

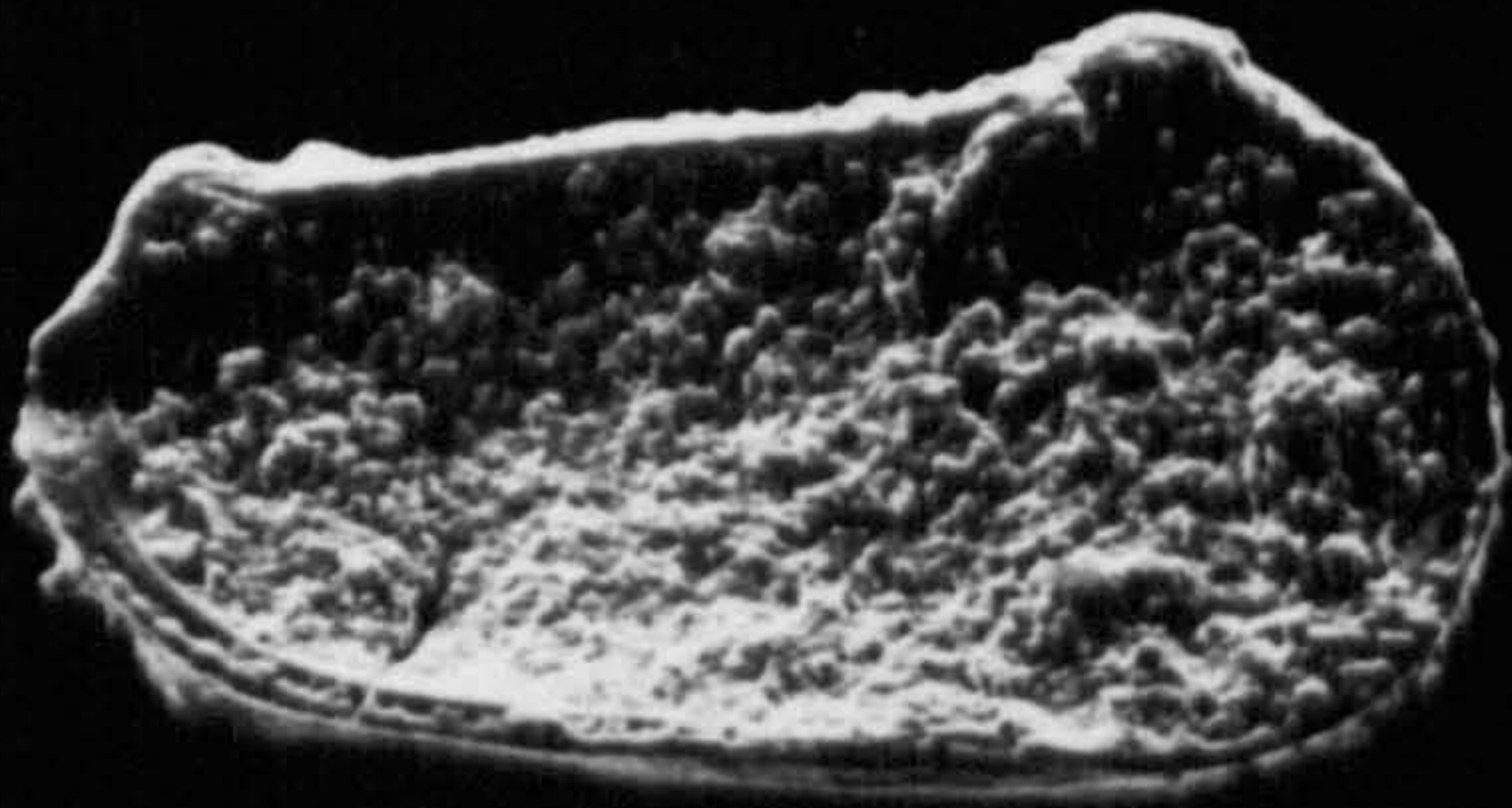
PLATE-54



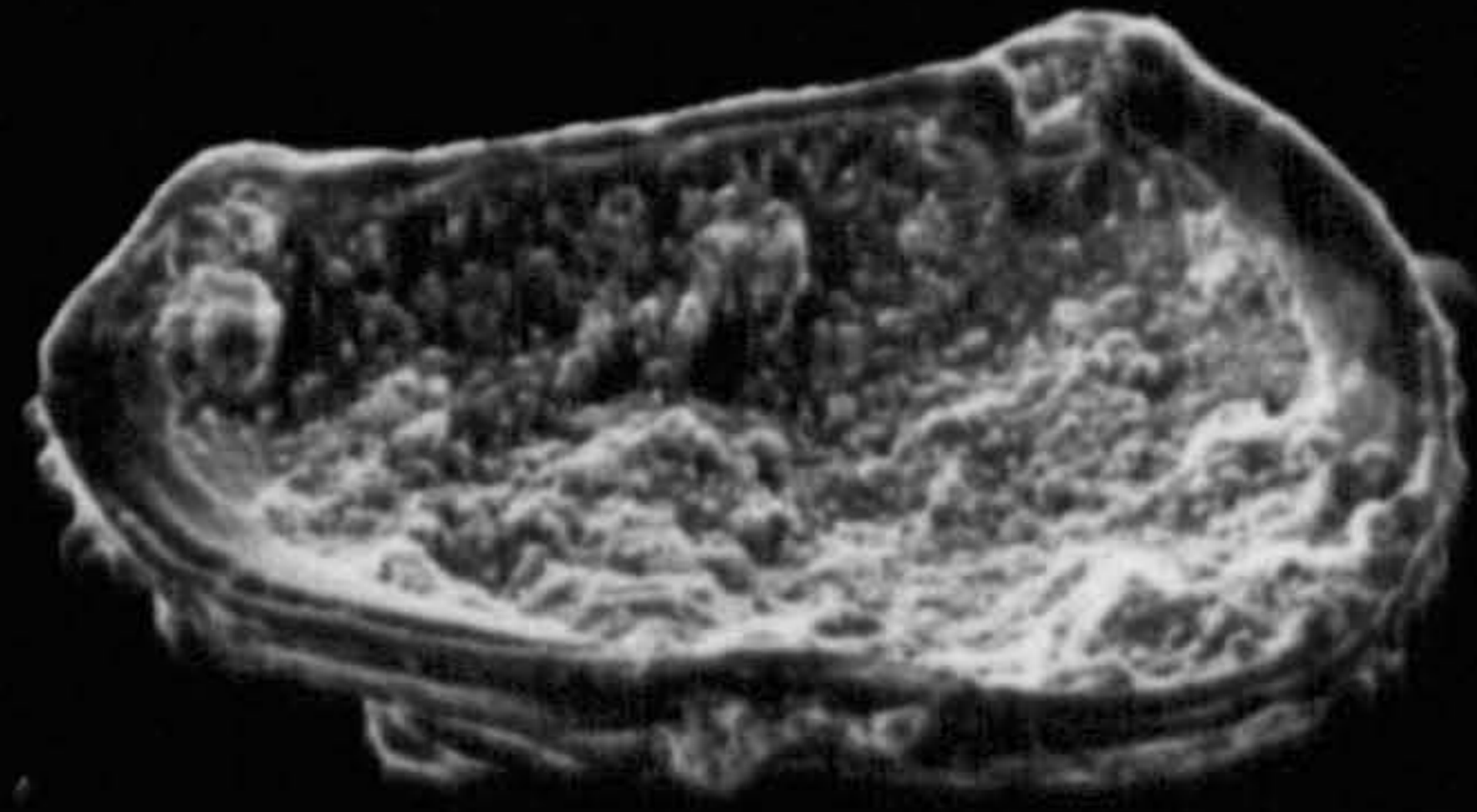
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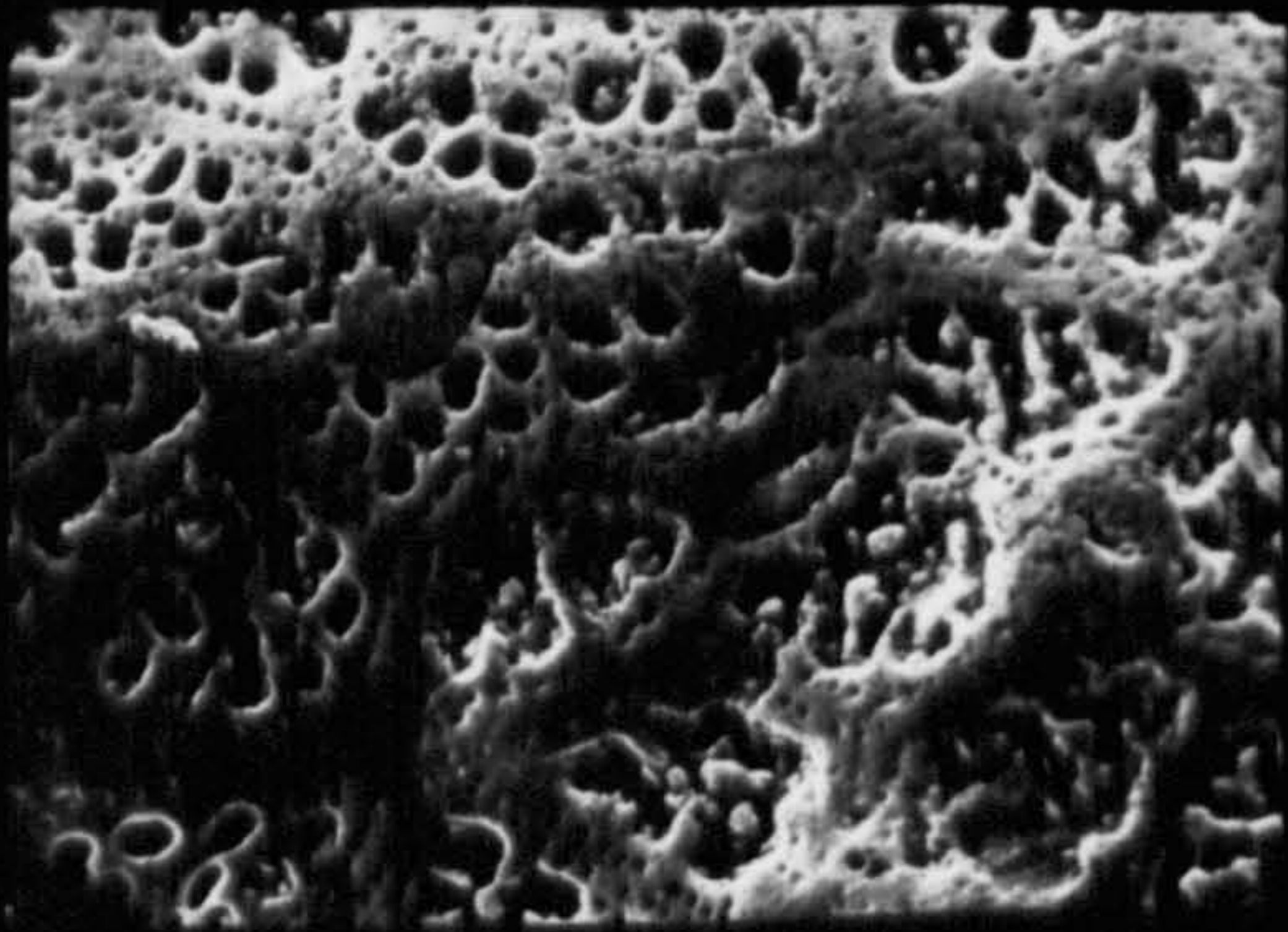
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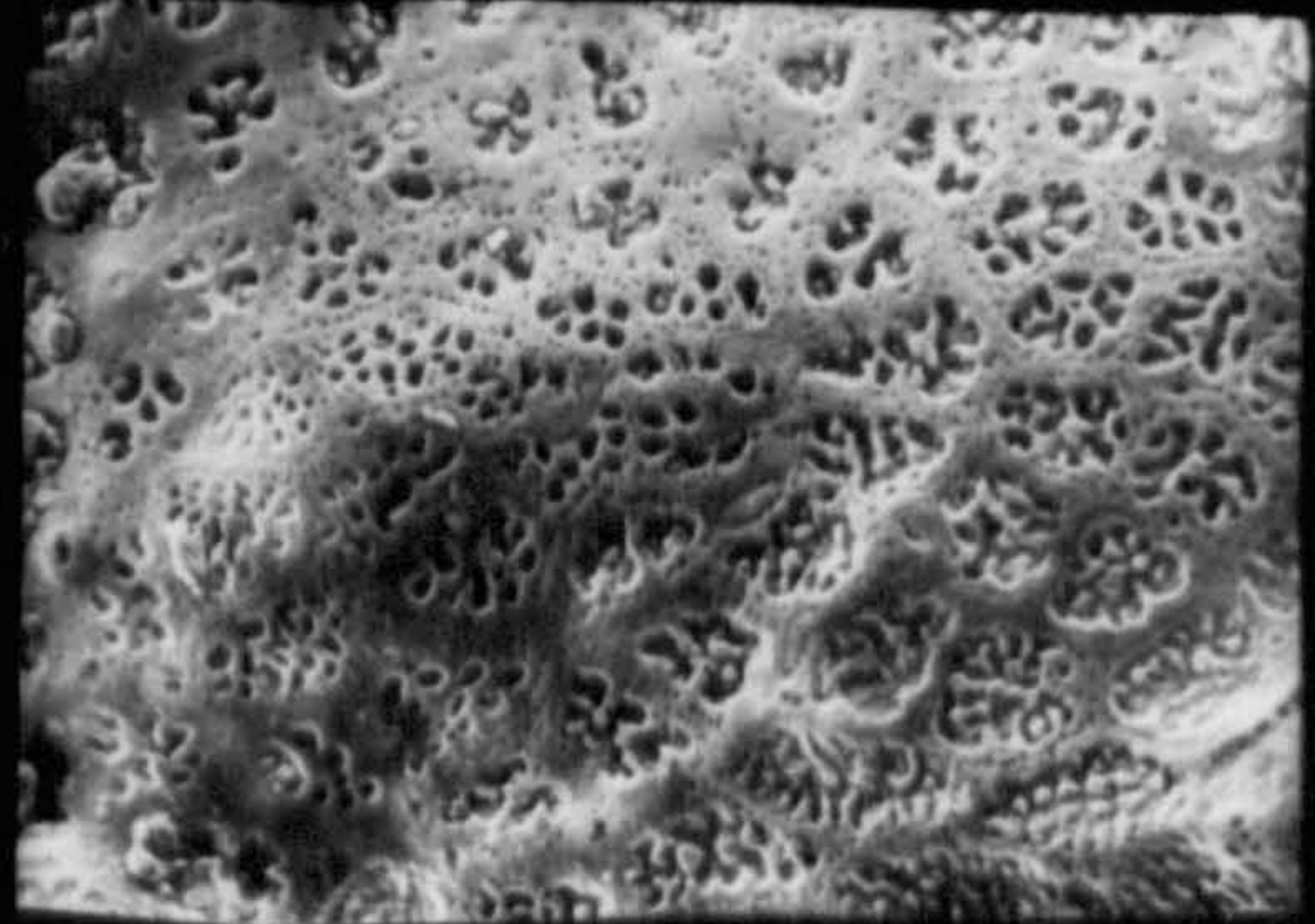
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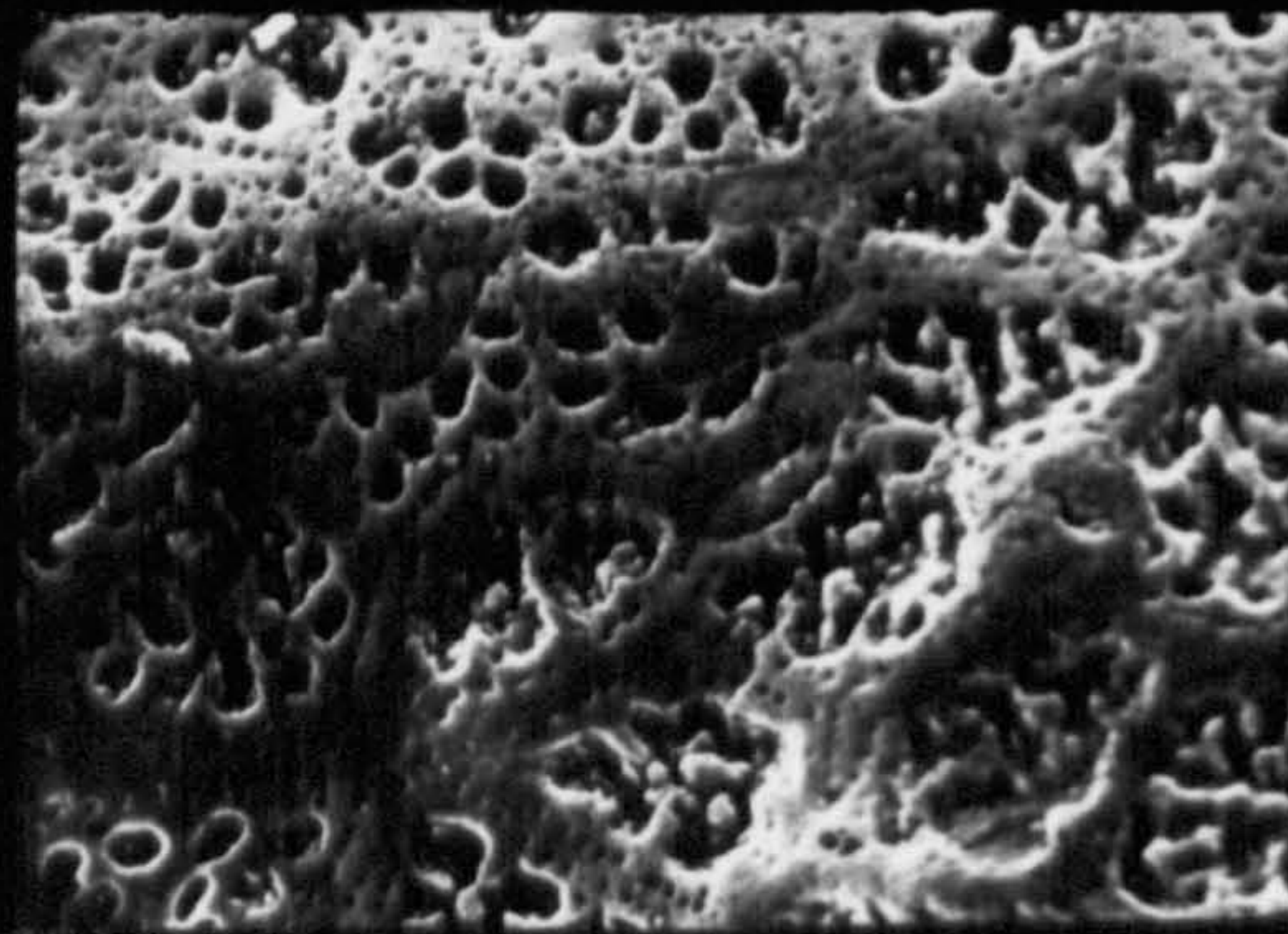
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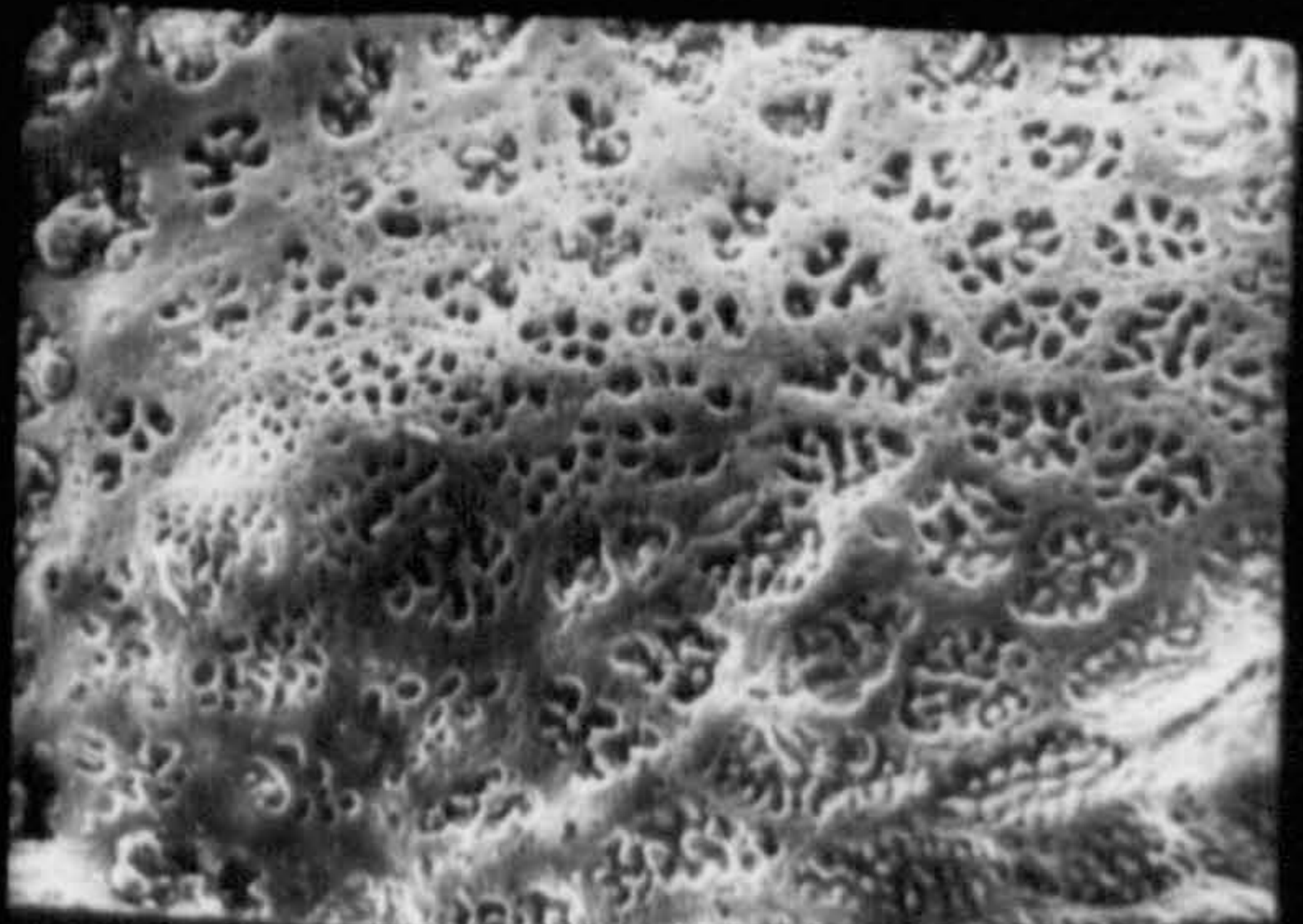
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4



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4

Iraqicythereis kadisiya gen et sp. nov.

Morphotype No. 2

All specimens from South Rumaila Well-104.

Fig. 1- Male carapace, right valve, external, lateral view, (paratype J.T. 309), stereoscopic paired photographs; drilling depth 2376 m; X82.

Fig. 2- Female carapace, right valve, external lateral view, (paratype J.T. 287); drilling depth 2427 m; X85.

Morphotype No. 3

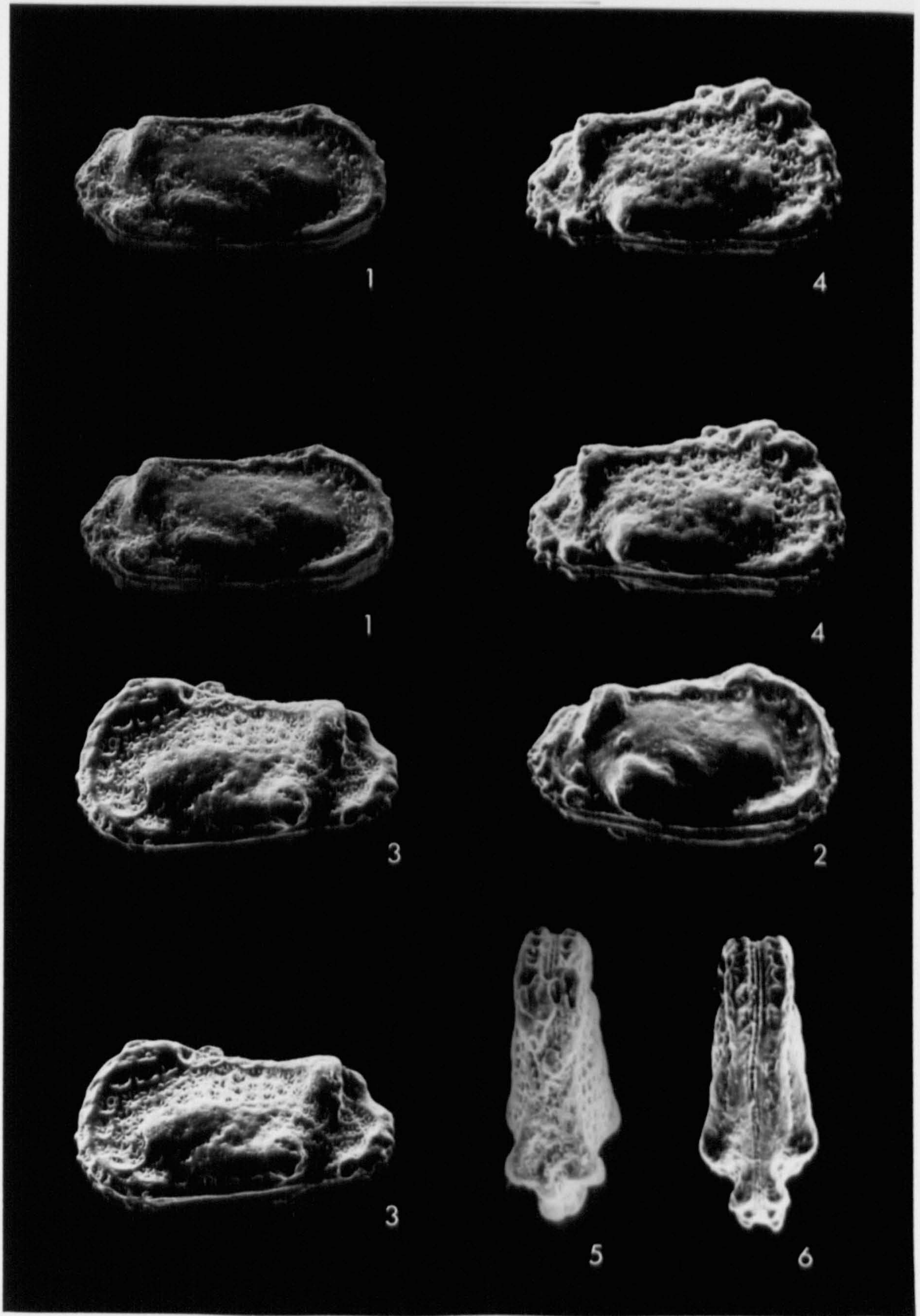
Fig. 3- Female carapace, left valve, external, lateral view, (paratype J.T. 295), stereoscopic paired photographs; drilling depth 2398 m; X91.

Fig. 4- Female carapace, right valve, external, lateral view, (paratype J.T. 295), stereoscopic paired photographs; drilling depth 2398 m; X91.

Fig. 5- Female carapace, external, dorsal view, (paratype J.T. 295); drilling depth 2398 m; X82.

Fig. 6- Female carapace, external, ventral view, (paratype J.T. 295); drilling depth 2398 m; X80.

PLATE-55



EXPLANATION OF PLATE - 56

Iraqicythereis kadisiya gen. et sp. nov.

Morphotype No. 3.

All specimens from South Rumaila Well-104.

Fig. 1- Female carapace, left valve, external, lateral view, surface ornamentation, (paratype J.T. 295), stereoscopic paired photographs; drilling depth 2398 m; X80.

Morphotype No. 4

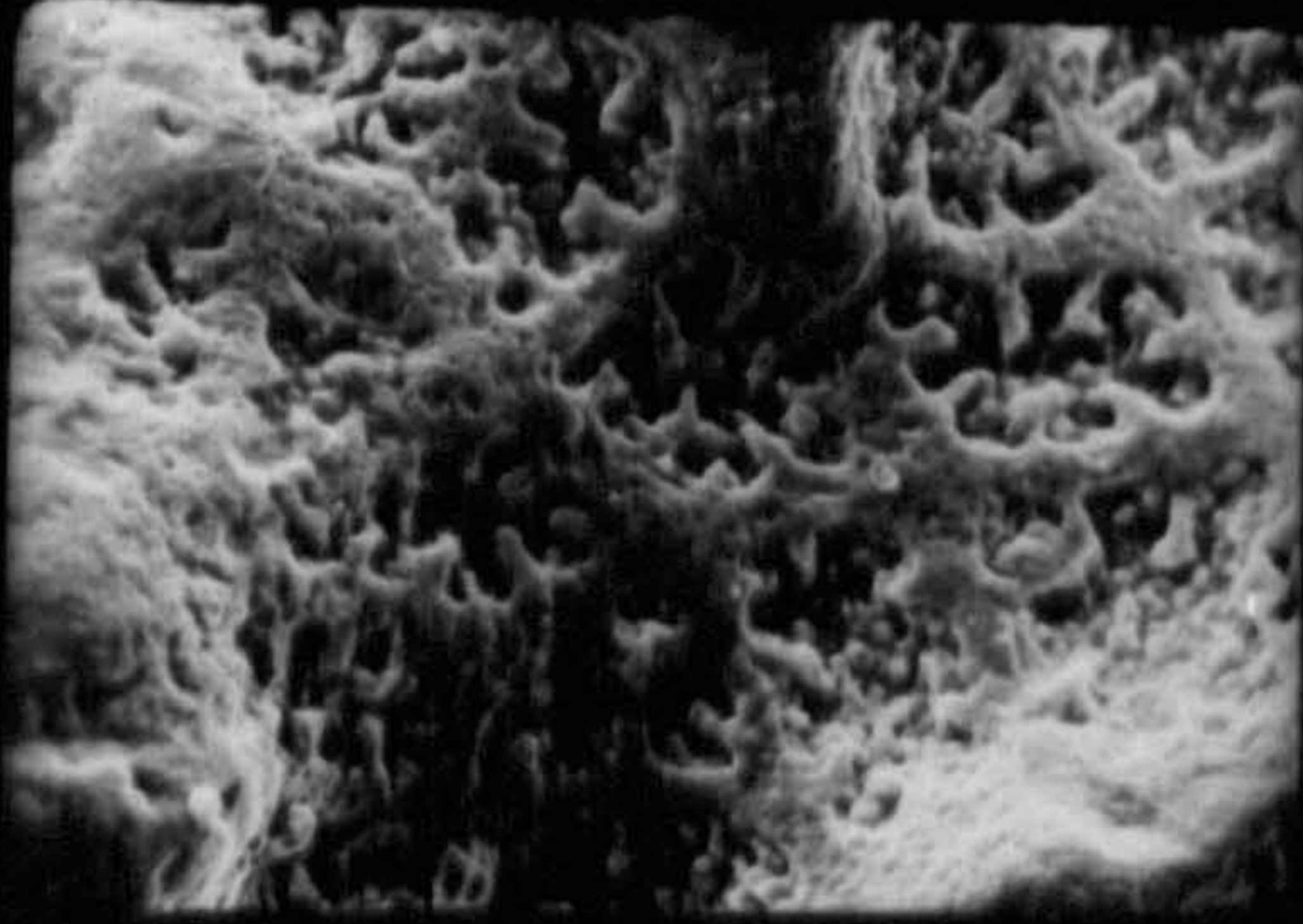
Fig. 2- Female carapace, right valve, external, lateral view, (paratype J.T. 299), stereoscopic photographs; drilling depth 2424 m; X91.

Fig. 3- Female carapace, right valve, external, lateral view, (paratype J.T. 288), stereoscopic paired photographs; drilling depth 2429 m; X89.

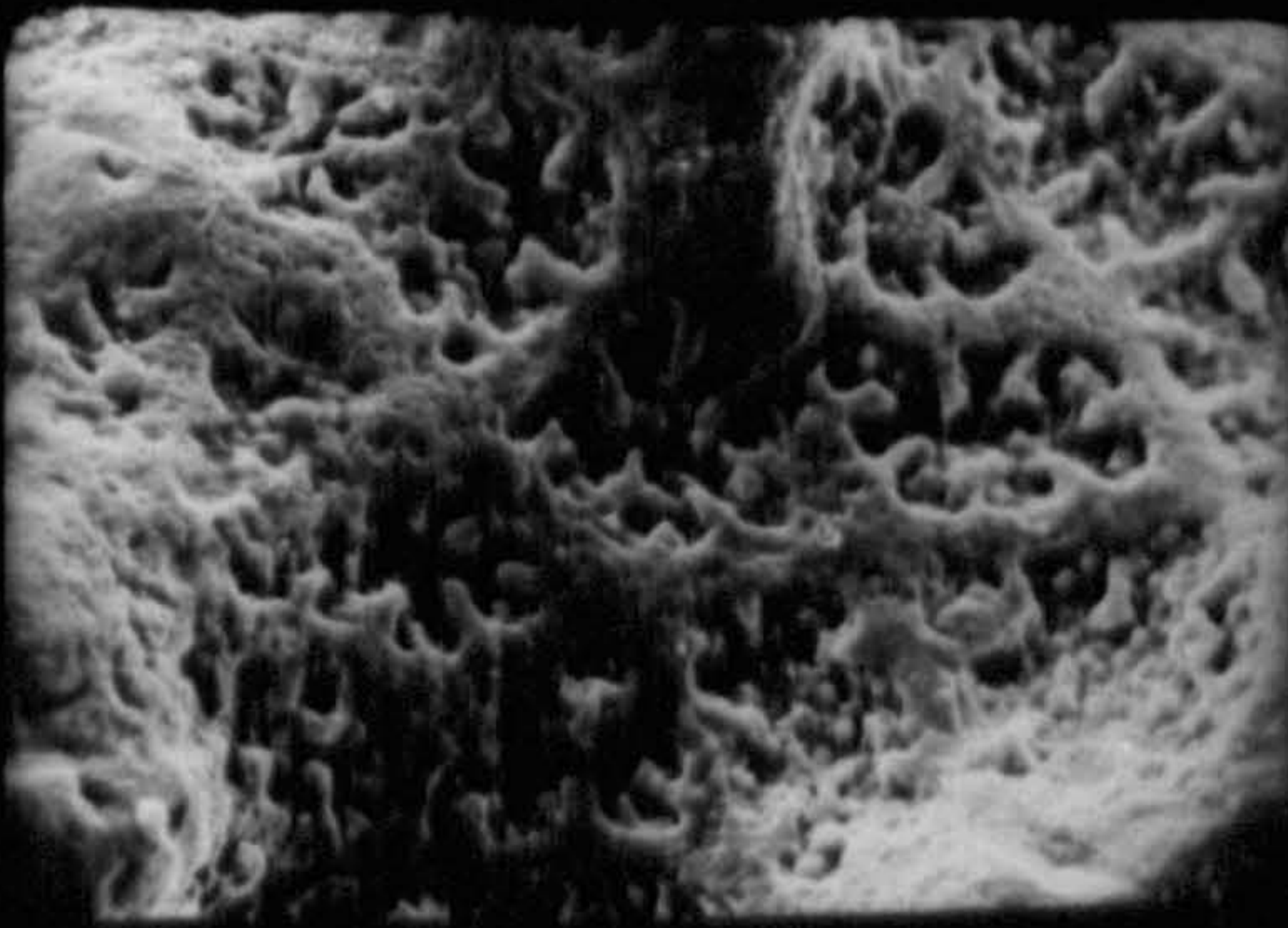
Fig. 4- Female carapace, external, dorsal view, (paratype J.T. 299); drilling depth 2424 m; X79.

Fig. 5- Female carapace, external, ventral view, (paratype J.T. 288); drilling depth 2429 m; X77.

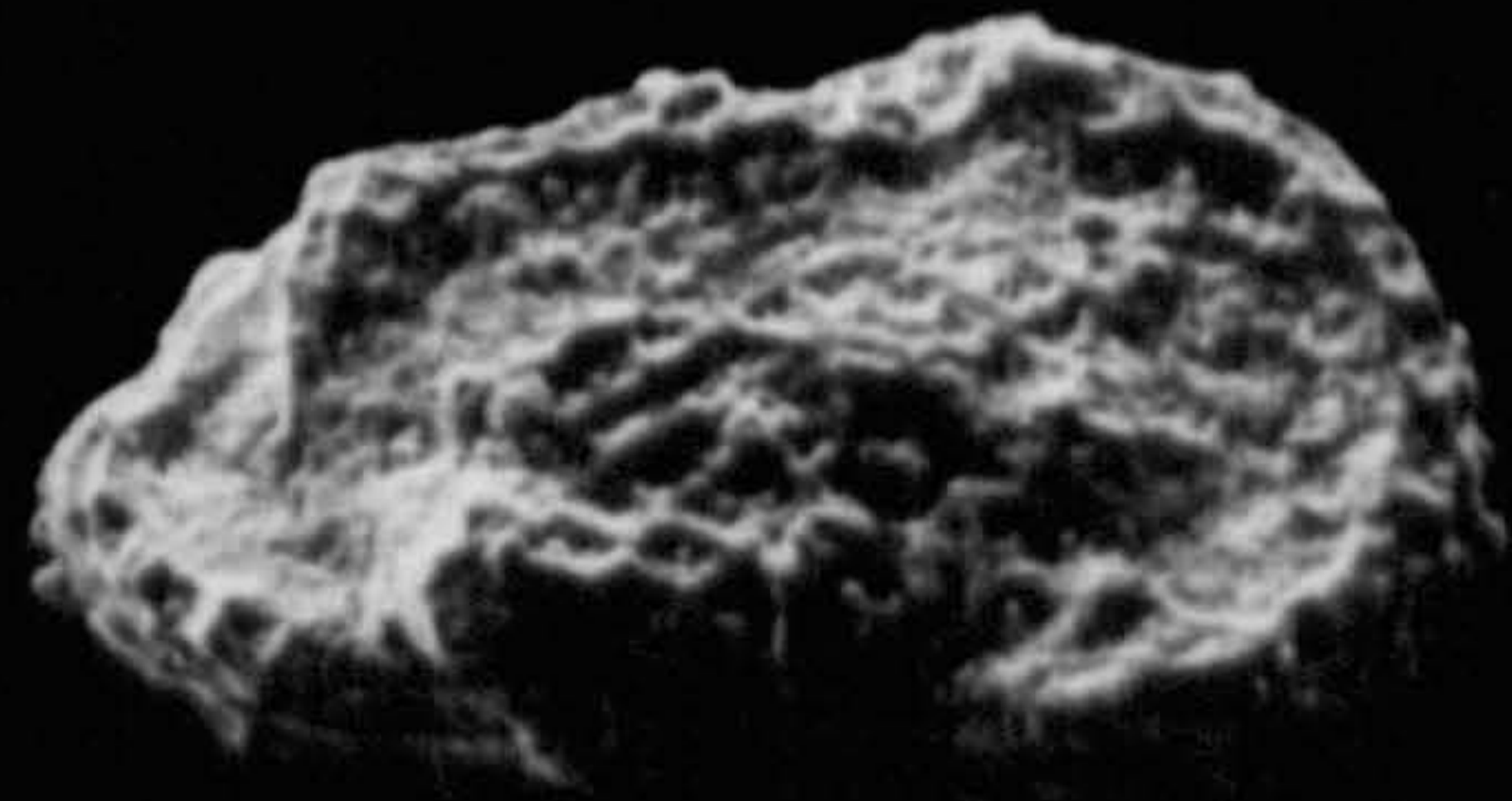
PLATE-56



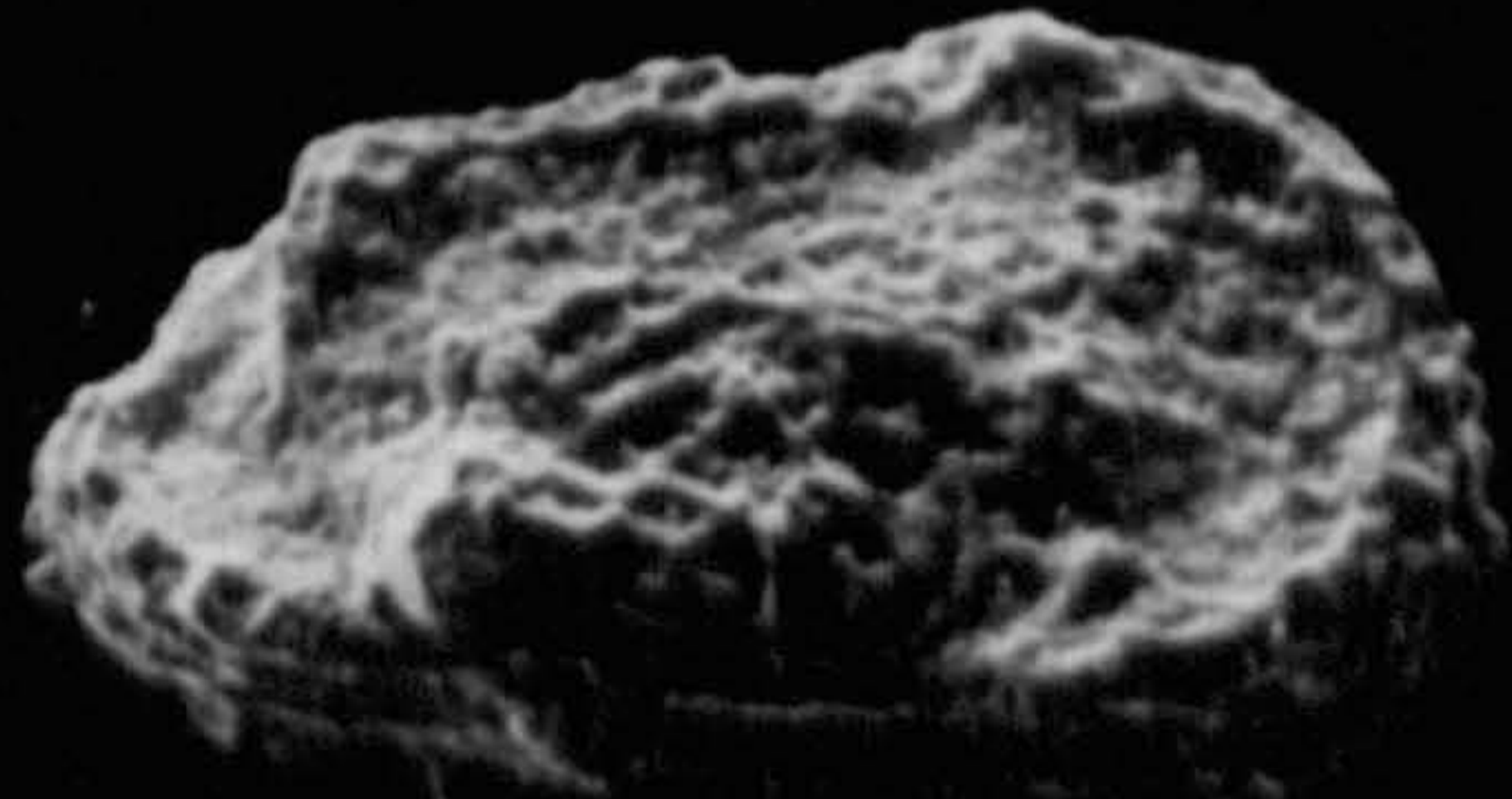
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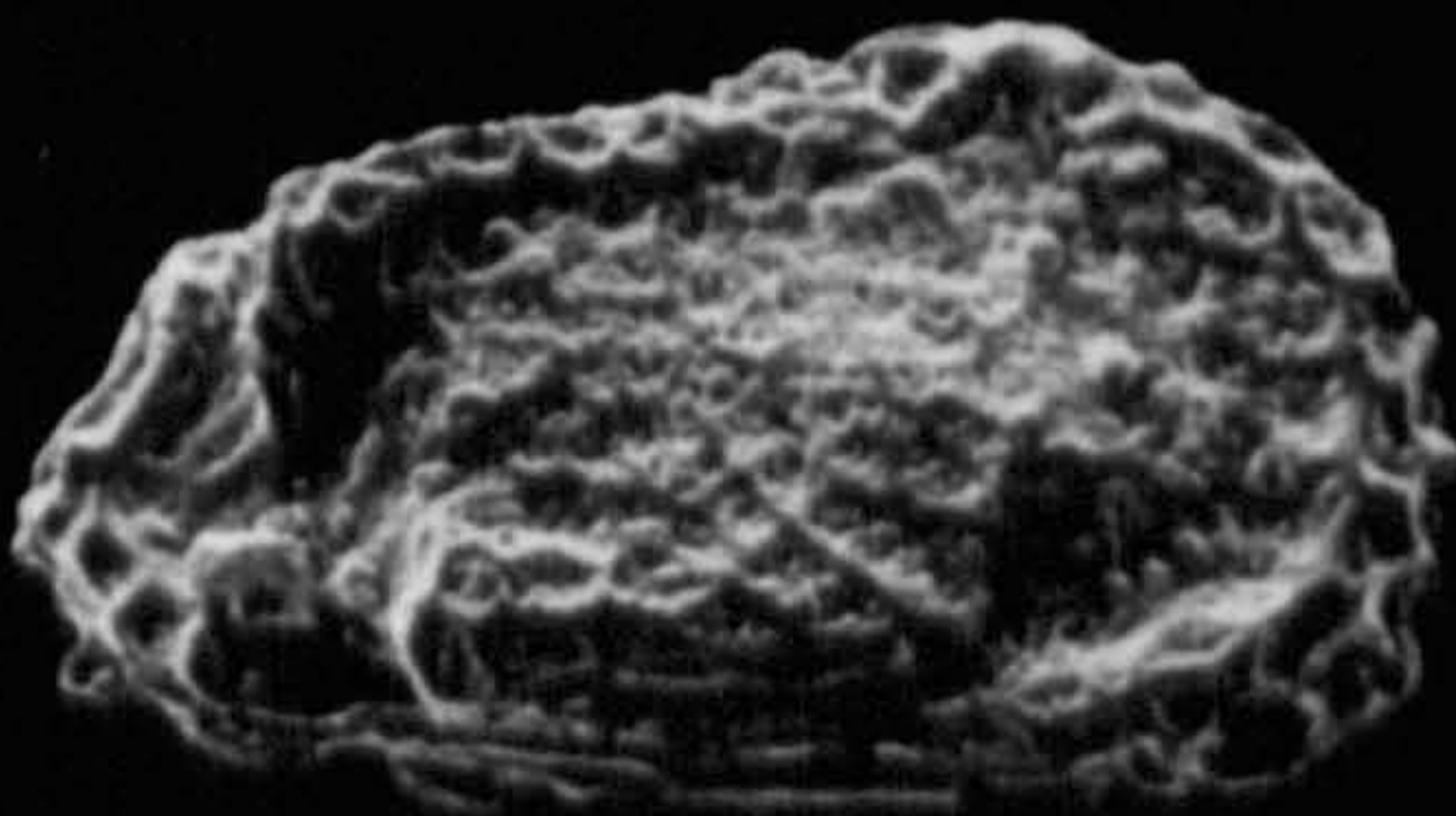
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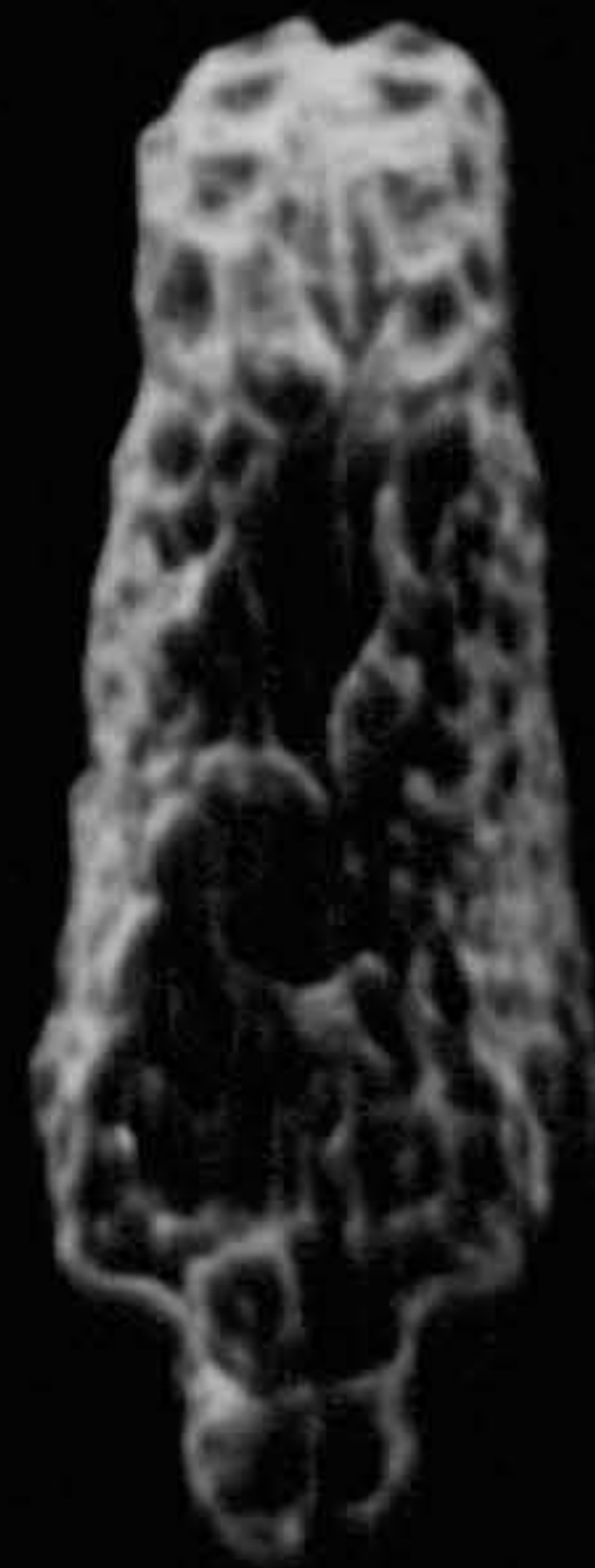
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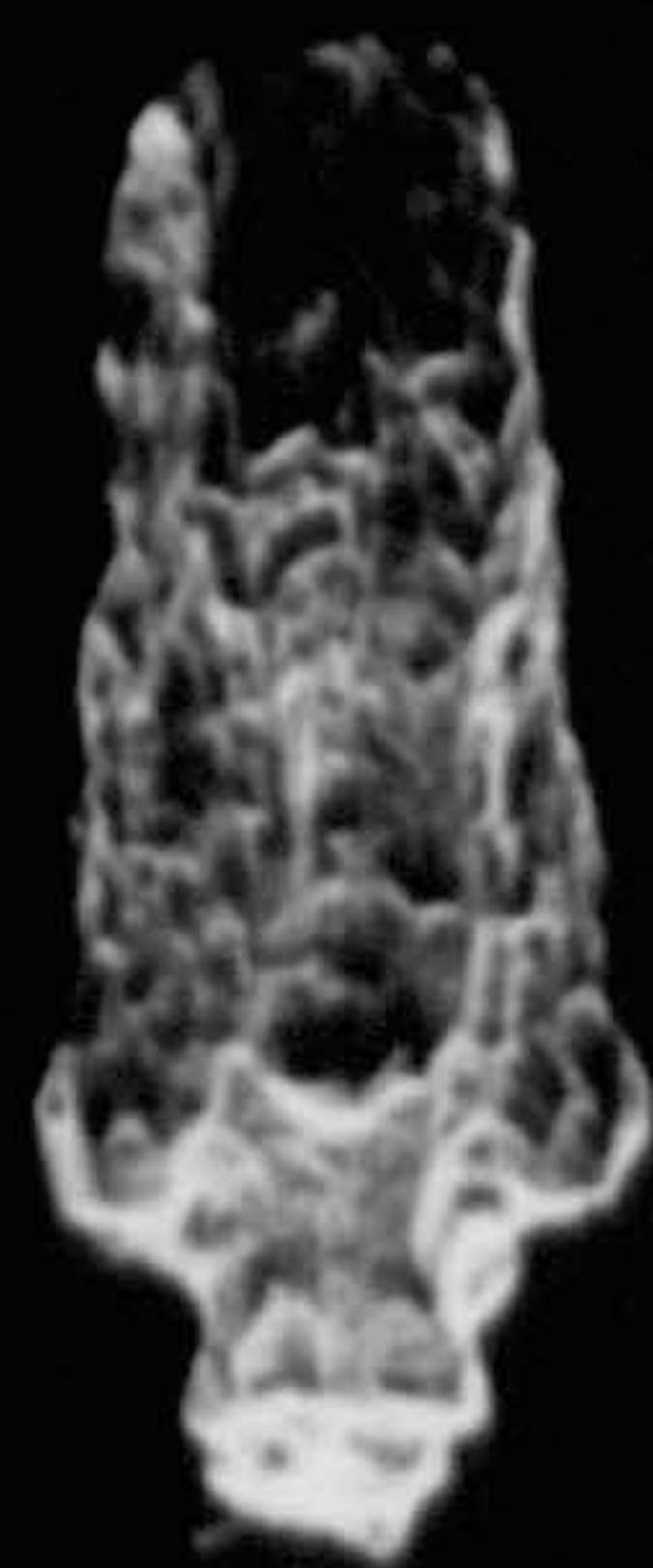
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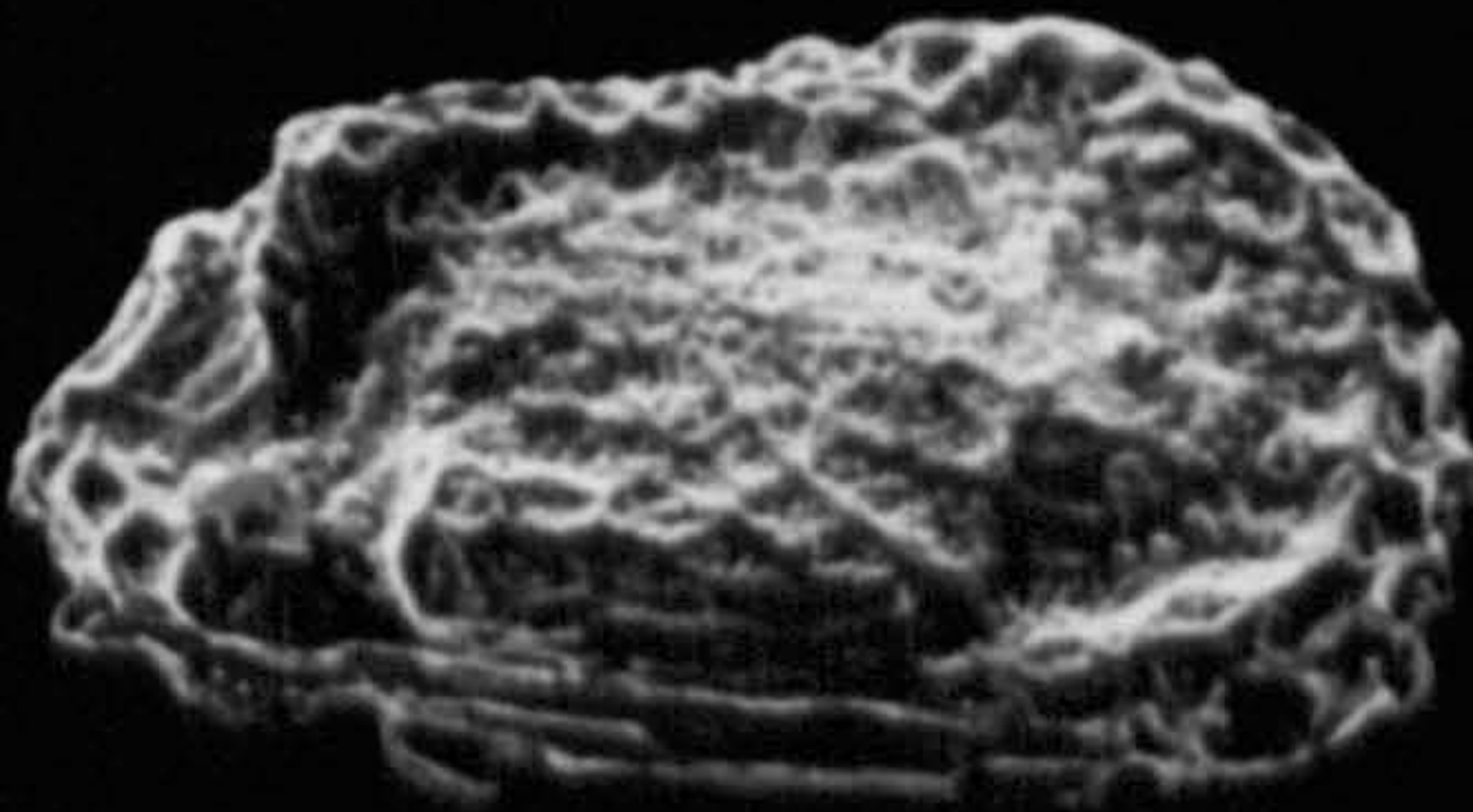
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5



2

EXPLANATION OF PLATE - 57

All specimens from South Rumaila Well-104.

Iraqicythereis kadisiya gen. et sp. nov.

Morphotype No. 4

Fig. 1- Female carapace, left valve, external, lateral view, surface ornamentation, (paratype J.T. 299), stereoscopic paired photographs; drilling depth 2424 m; X109.

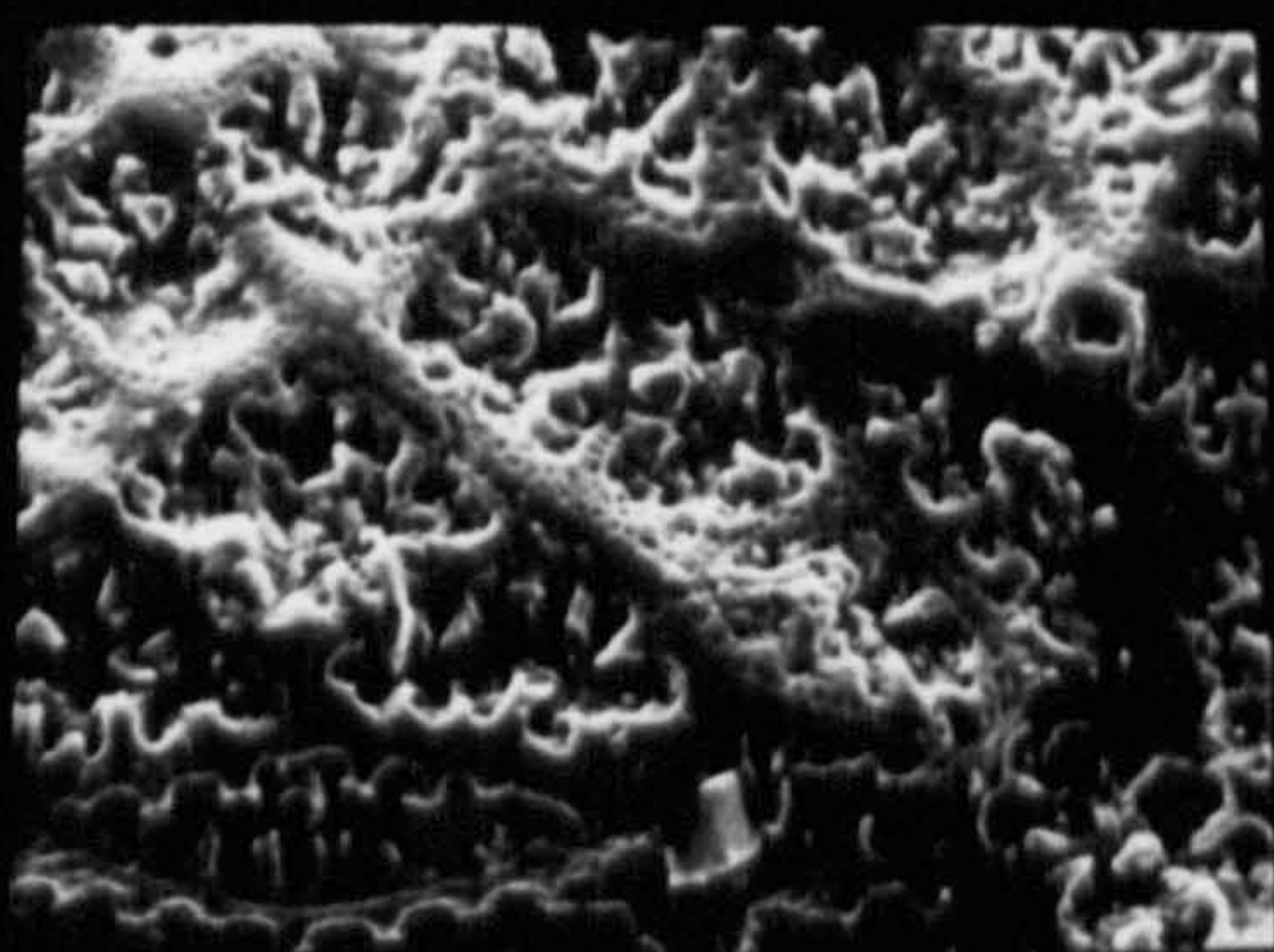
Fig. 3- Female carapace, left valve, external, lateral view, (paratype J.T. 299), stereoscopic paired photographs; drilling depth 2424 m; X90.

Fig. 4- Female carapace, left valve, external, lateral view, (paratype J.T. 297), stereoscopic paired photographs; drilling depth 2421 m; X84.

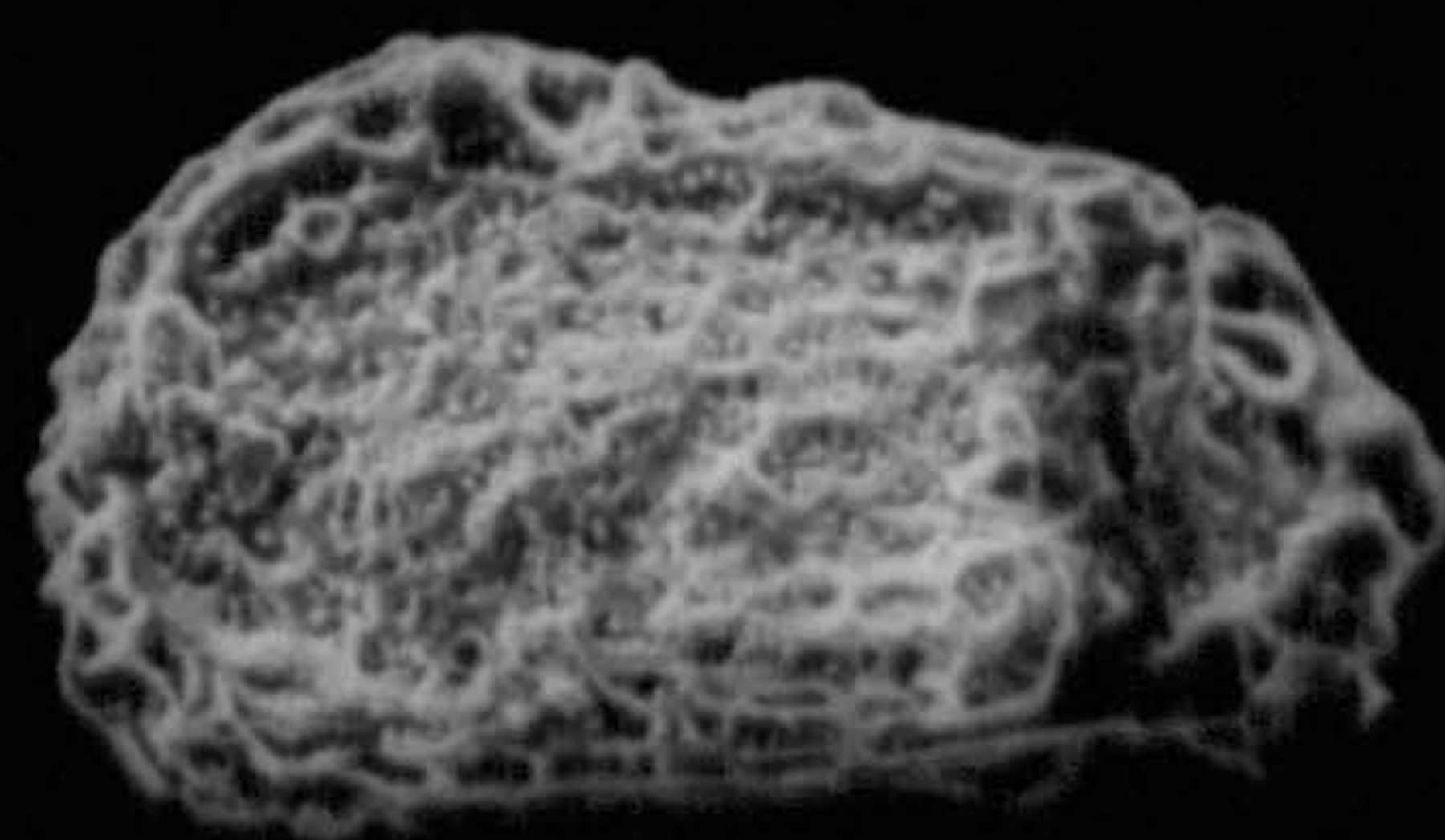
Morphotype No. 5

Fig. 2- Female carapace, right valve, external, lateral view, (paratype J.T. 299), stereoscopic paired photographs; drilling depth 2376 m; X88.

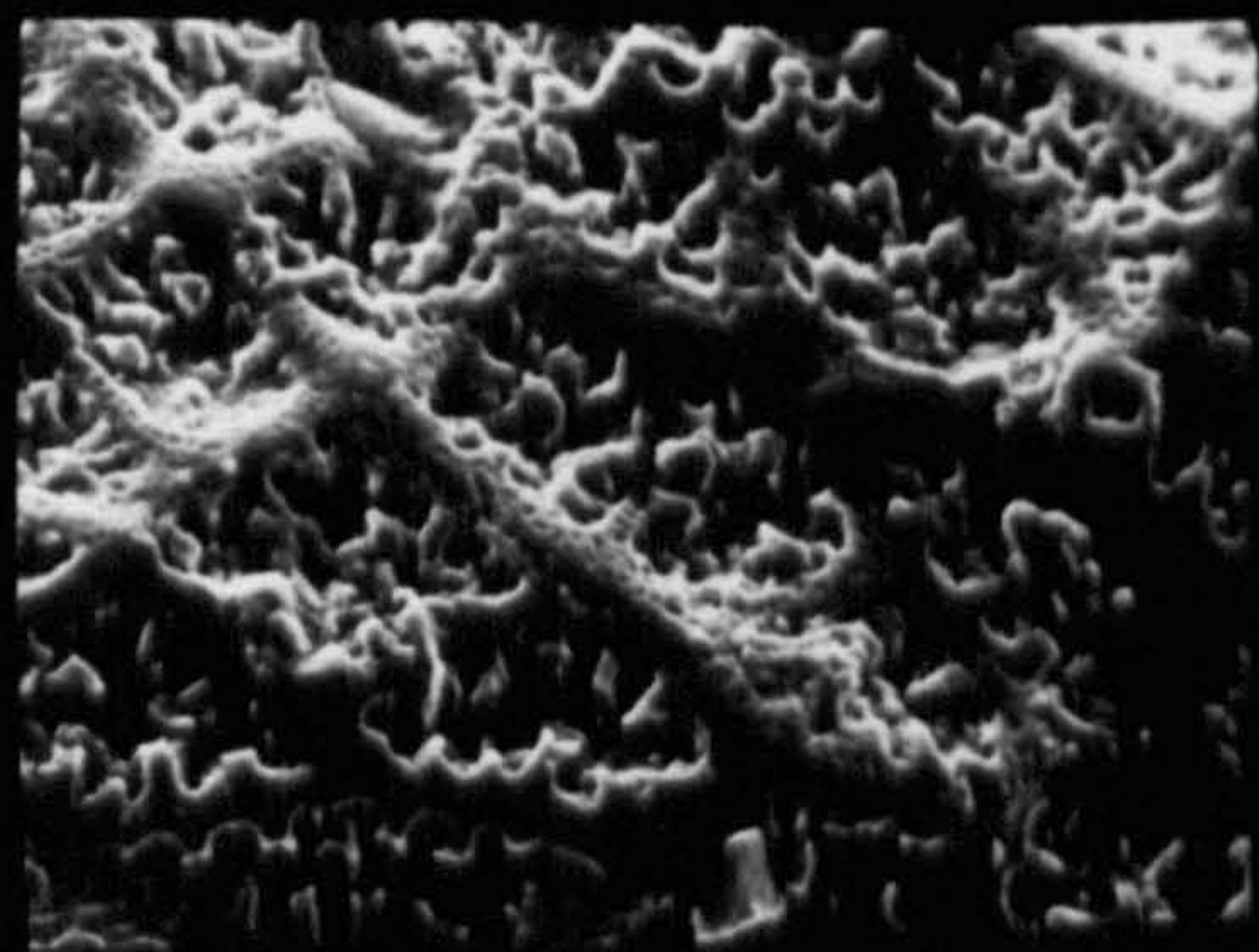
PLATE-57



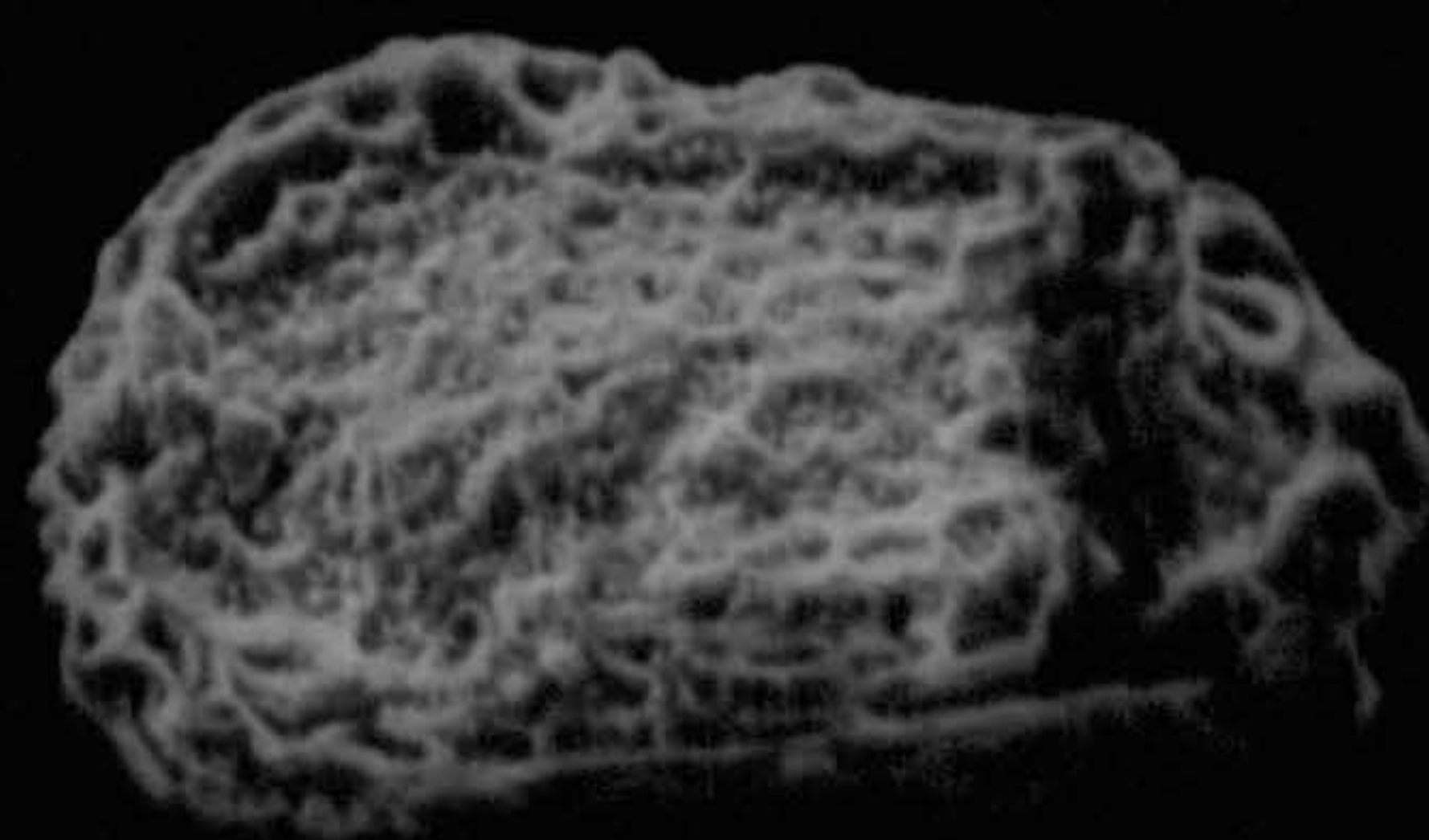
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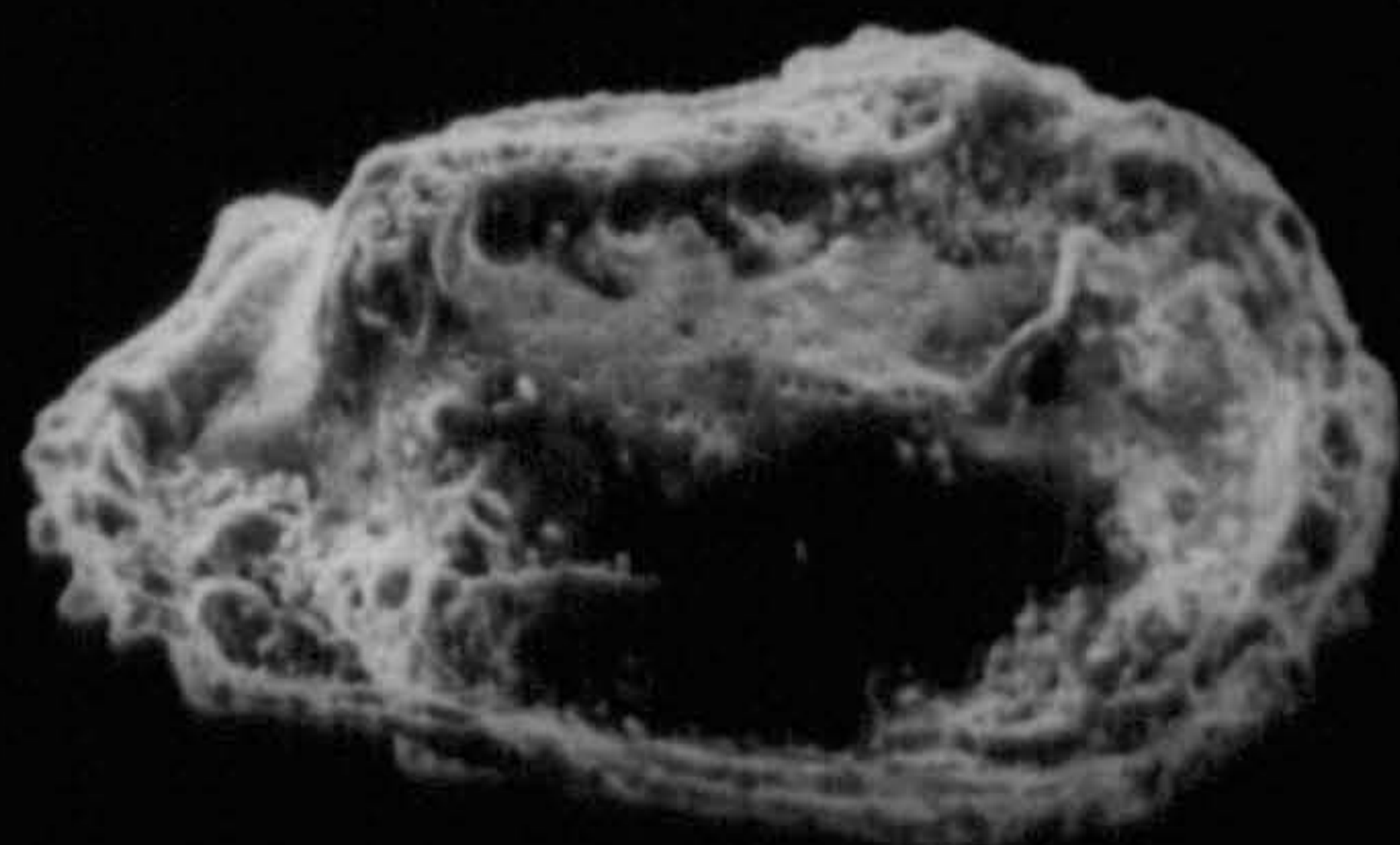
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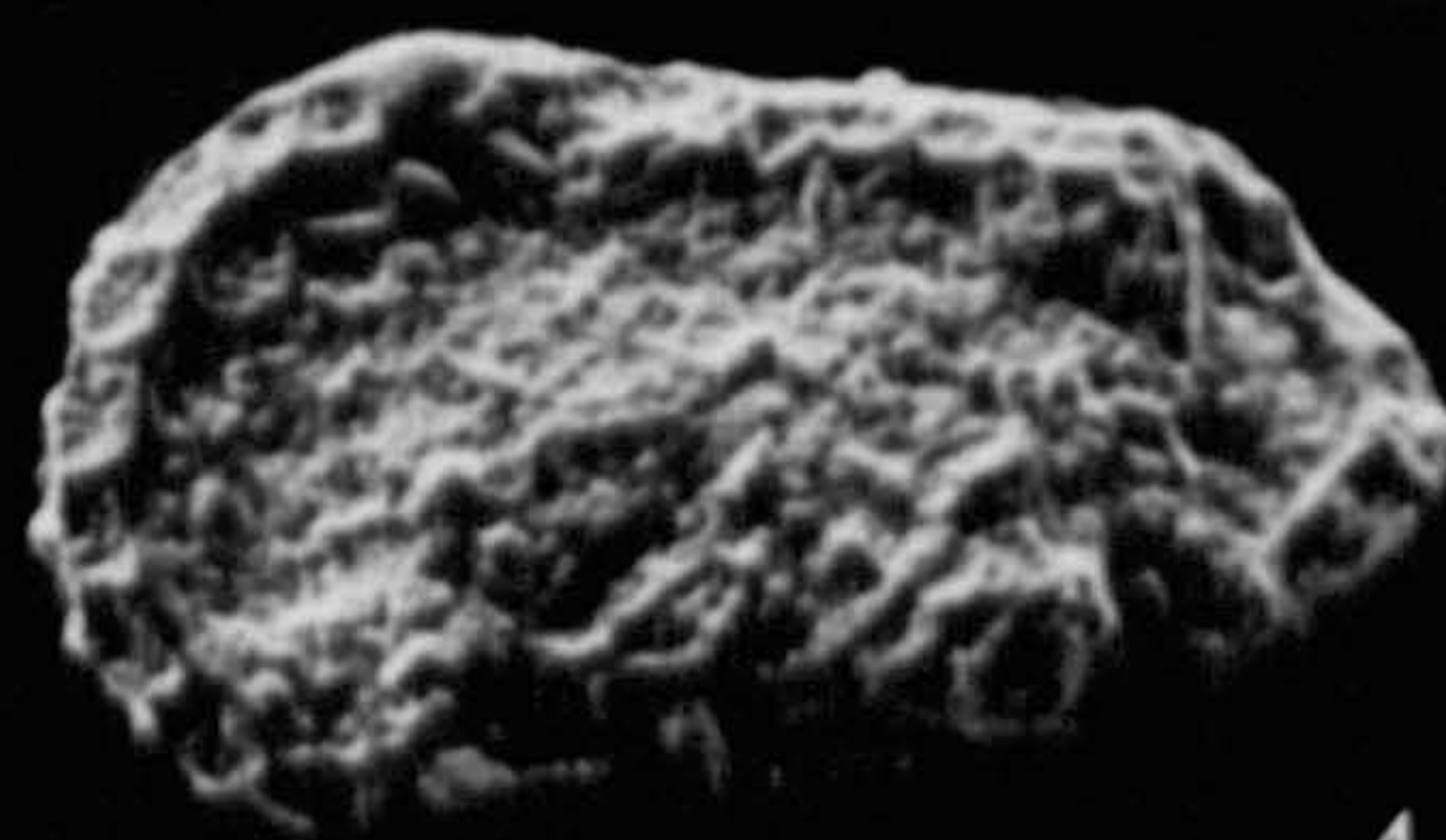
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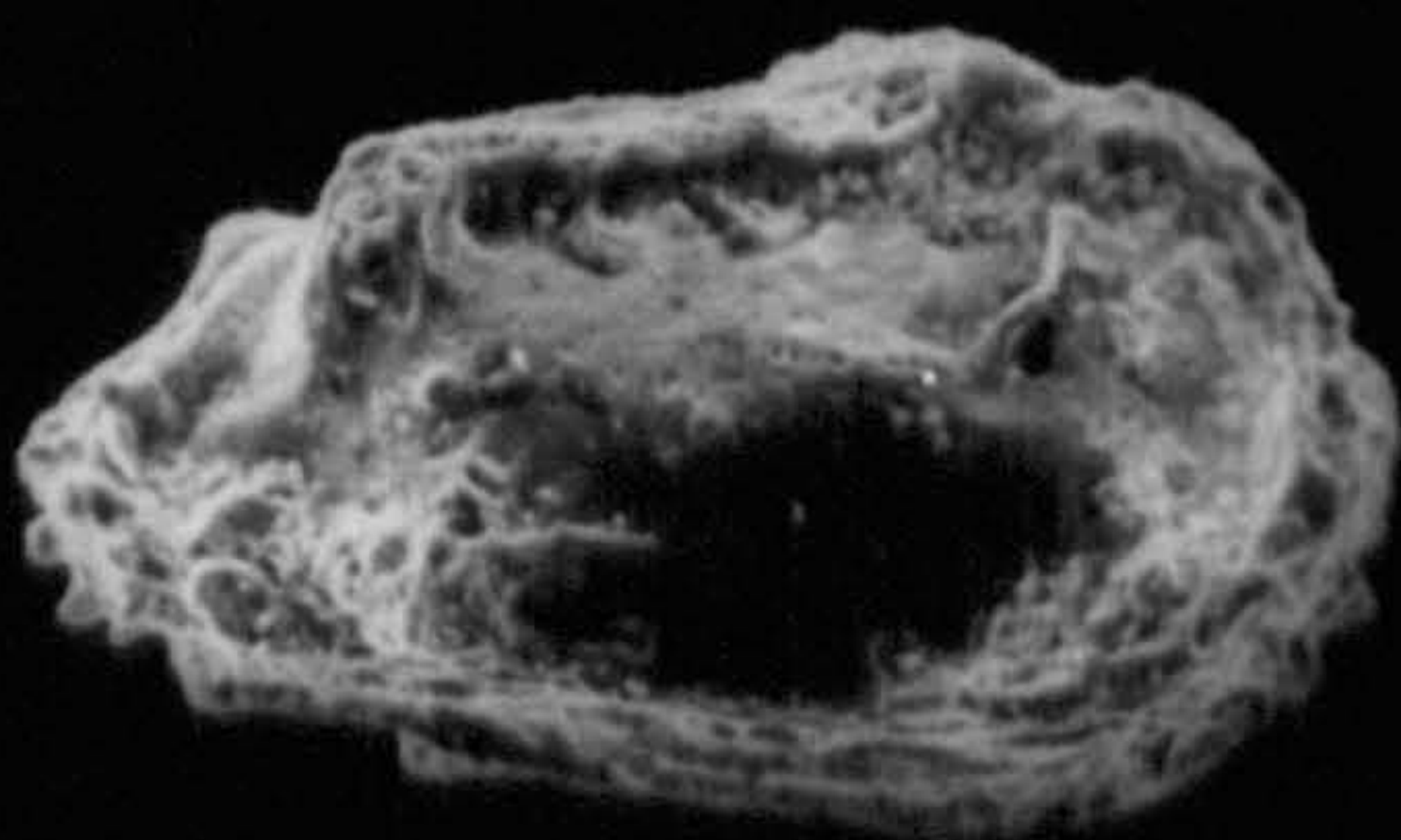
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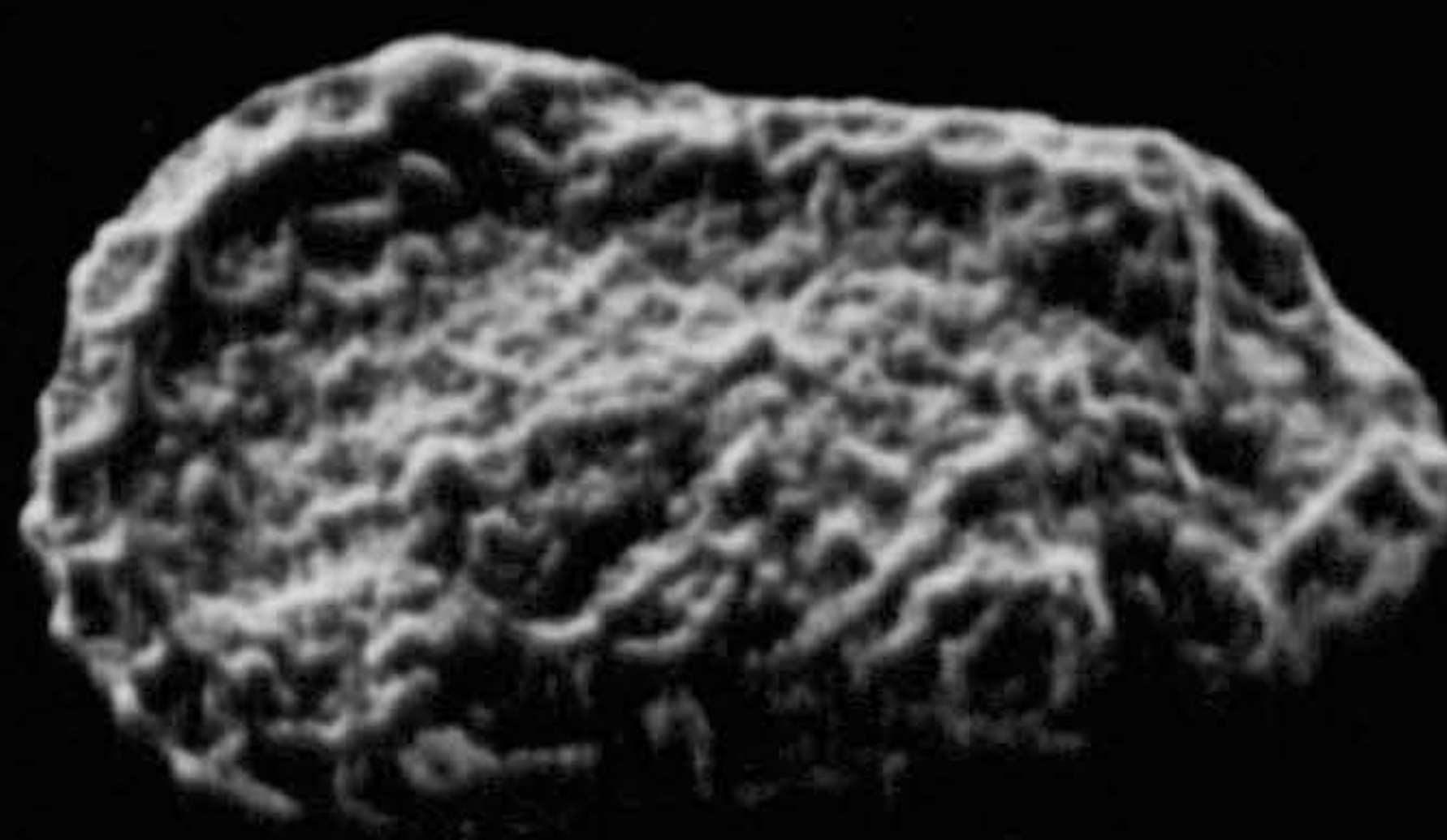
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4

EXPLANATION OF PLATE - 58

Iraqicythereis kadisiya gen. et sp. nov.

Morphotype No. 5

All specimens from South Rumaila Well-104.

Fig. 1- Female carapace, left valve, external, lateral view, (paratype J.T. 289), stereoscopic paired photographs; drilling depth 2376 m; X85.

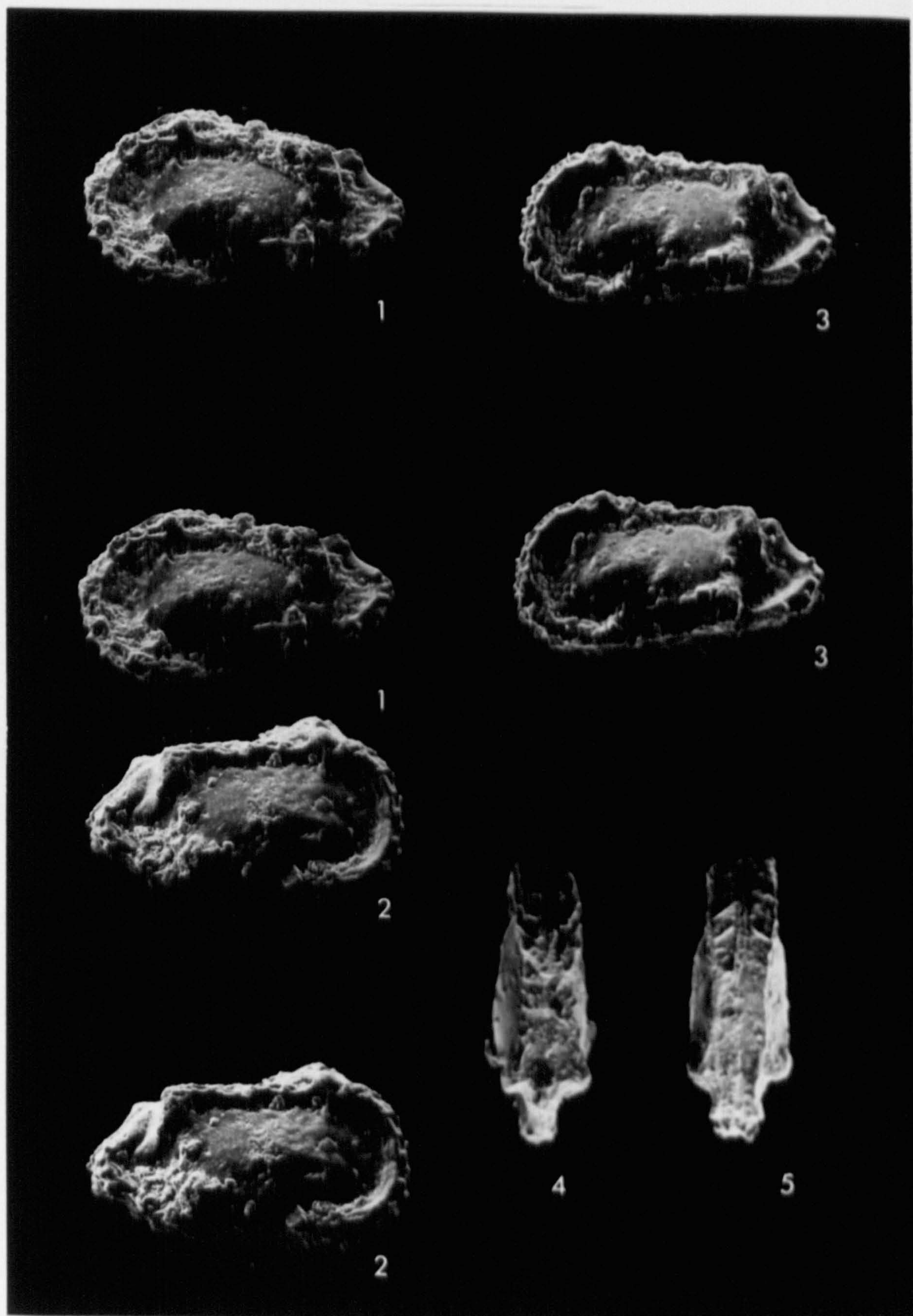
Fig. 2- Female carapace, right valve, external, lateral view, (paratype J.T. 296), stereoscopic paired photographs; drilling depth 2424 m; X89.

Fig. 3- Female carapace, left valve, external, lateral view, (paratype J.T. 282), stereoscopic paired photographs; drilling depth 2370 m; X90.

Fig. 4- Female carapace, external, dorsal view, (paratype J.T. 282); drilling depth 2370 m; X80.

Fig. 5- Female carapace, external, ventral view, (paratype J.T. 289); drilling depth 2376 m; X77.

PLATE-58



EXPLANATION OF PLATE - 59

Limburgina ? aldjahizi sp. nov.

All specimens from Ghalaisan Well-1.

Fig. 1- Female carapace, left valve, external, lateral view, (paratype J.T. 312); drilling depth 3725 ft; X71.

Fig. 2- Female carapace, left valve, external, lateral view, (holotype J.T. 311); drilling depth 3730 ft; X68.

Fig. 3- Female carapace, right valve, external, lateral view, (holotype J.T. 311); drilling depth 3730 ft; X100.

Fig. 4- Male carapace, right valve, external, lateral view, (paratype J.T. 310); drilling depth 4180 ft; X71.

Fig. 5- Male carapace, left valve, external, lateral view, (paratype J.T. 310); drilling depth 4180 ft; X88.

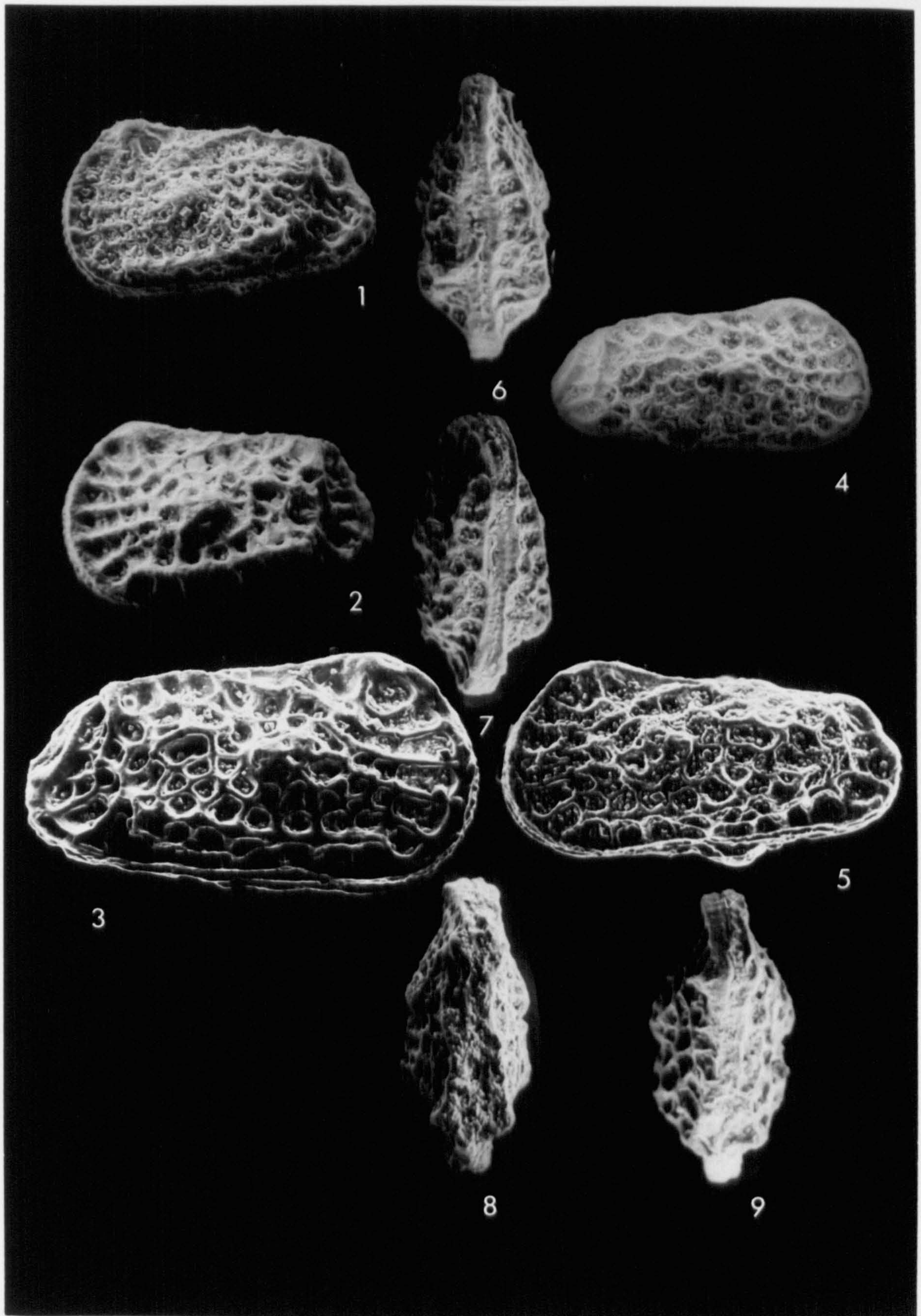
Fig. 6- Male carapace, external, ventral view, (paratype J.T. 310); drilling depth 4180 ft; X63.

Fig. 7- Female carapace, external, ventral view, (holotype J.T. 311); drilling depth 3730 ft; X63.

Fig. 8- Carapace, external, dorsal view, (paratype J.T. 312); drilling depth 3725 ft; X65.

Fig. 9- Female carapace, external, dorsal view, (holotype J.T. 311); drilling depth 3730 ft; X63.

PLATE-59



EXPLANATION OF PLATE - 60

Louza amygdaloidea Al-Abdul-Razzaq, M.S., 1977.

All specimens from South Rumaila Well-104.

Fig. 1- Male carapace, left valve, external, lateral view, (J.T. 313), stereoscopic paired photographs; drilling depth 2780 m; X84.

Fig. 2- Male carapace, right valve, external, lateral view, (J.T. 313); drilling depth 2780 m; X82.

Fig. 3- Male carapace, external, ventral view, (J.T. 313); drilling depth 2780 m; X74.

Fig. 4- Male carapace, external, dorsal view, (J.T. 313); drilling depth 2780 m; X73.

Occultocythereis sp.A

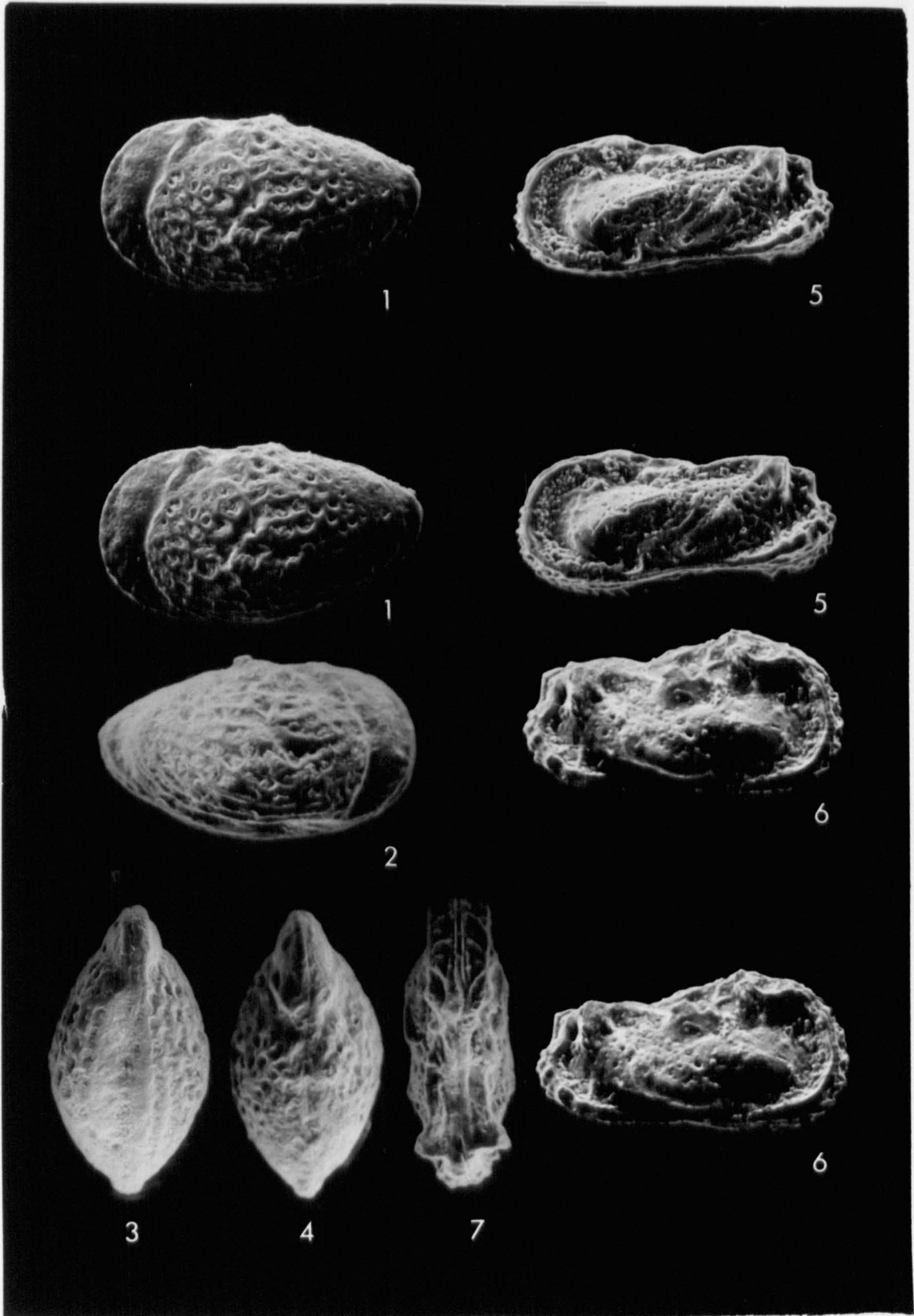
All specimens from Ghalaisan Well-1.

Fig. 5- Carapace, left valve, external, lateral view, (J.T. 314), stereoscopic paired photographs; drilling depth 3720 ft; X106.

Fig. 6- Carapace, right valve, external, lateral view, (J.T. 314), stereoscopic paired photographs; drilling depth 3720 ft; X106.

Fig. 7- Carapace, external, dorsal view, (J.T. 314); drilling depth 3720 ft; X96.

PLATE-60



EXPLANATION OF PLATE - 61

Peloriops (Peloriops) sphaerommata Al-Abdul-Razzaq, 1979.

All specimens from South Rumaila Well-104.

Fig. 1- Female carapace, left valve, external, lateral view, (J.T. 318), stereoscopic paired photographs; drilling depth 2732 m; X80.

Fig. 2- Female carapace, left valve, external, lateral view, (J.T. 316), stereoscopic paired photographs; drilling depth 2718 m; X83.

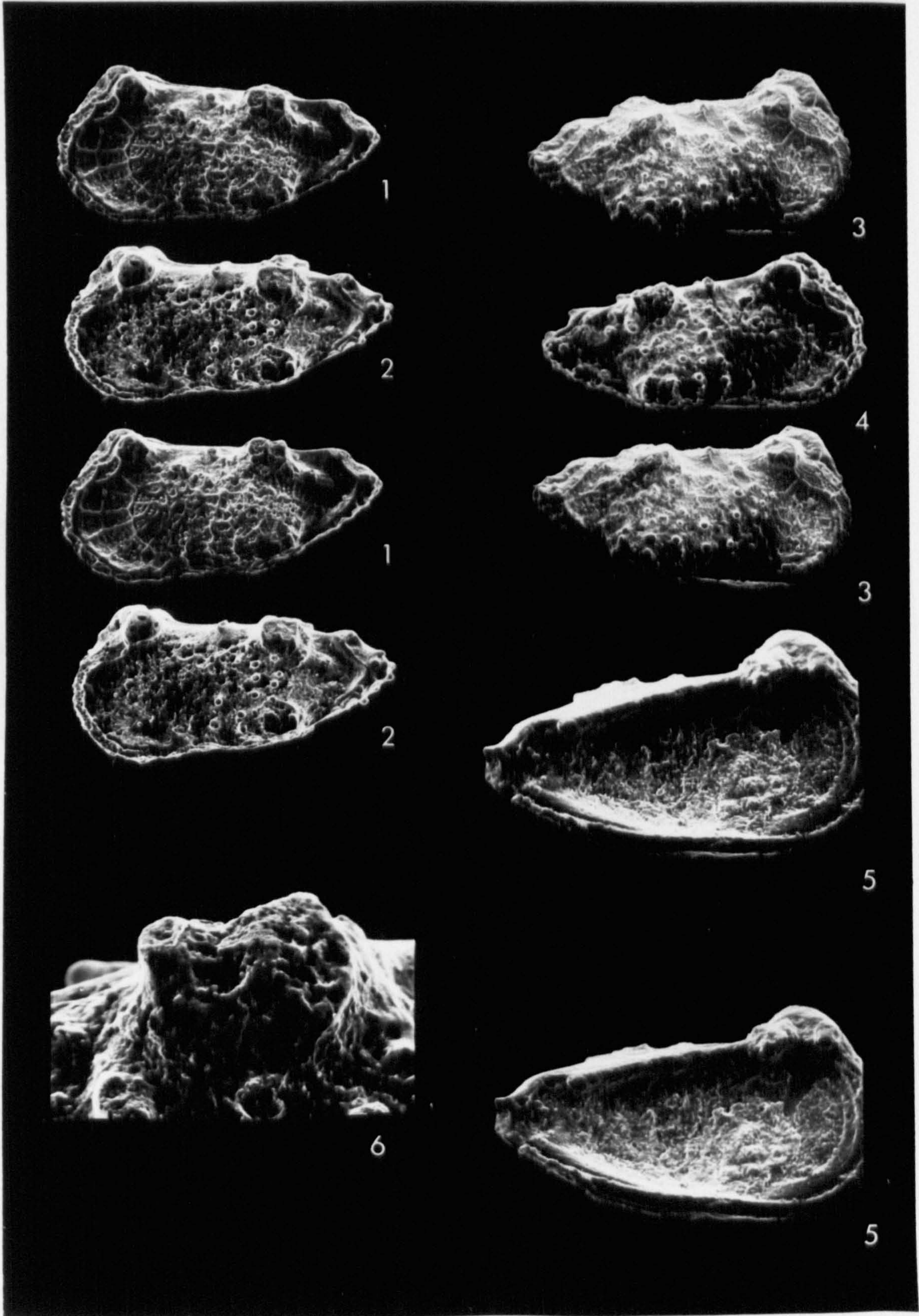
Fig. 3- Female carapace, right valve, external, lateral view, (J.T. 323), stereoscopic paired photographs; drilling depth 2692 m; X86.

Fig. 4- Female carapace, right valve, external, lateral view, (J.T. 319); drilling depth 2720 m; X81.

Fig. 5- Female right valve, internal, lateral view, (J.T. 324), stereoscopic paired photographs; drilling depth 2488 m; X96.

Fig. 6- Female carapace, external, lateral view, enlargement of the posterodorsal tubercle of the dorsal ridge, (J.T. 319); drilling depth 2720 m; X89.

PLATE-61



EXPLANATION OF PLATE - 62

Peloriops (Peloriops) sphaerommata Al-Abdul-Razzaq, 1979.

All specimens from South Rumaila Well-104.

Fig. 1- Male carapace, right valve, external, lateral view, (J.T. 315); drilling depth 2488 m; X81.

Fig. 2- Male carapace, right valve, external, lateral view, (J.T. 320); drilling depth 2658 m; X71.

Fig. 3- Female carapace, left valve, external, surface reticulation (macro and micro-reticulation in the anterior area, J.T. 318), stereoscopic paired photographs; drilling depth 2732 m; X89.

Fig. 4- Female carapace, right valve, external, lateral view, (J.T. 321), stereoscopic paired photographs; drilling depth 2662 m; X78.

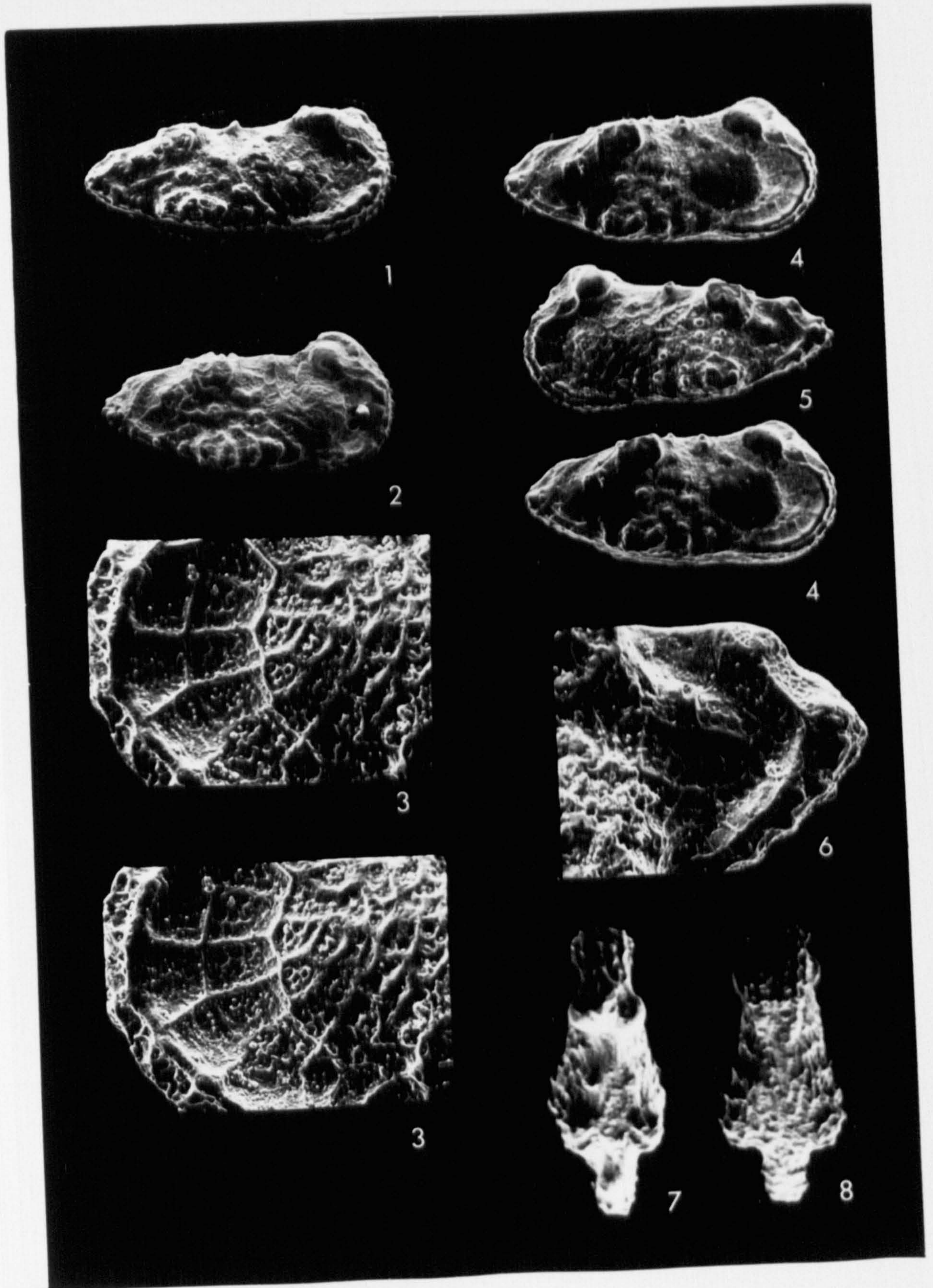
Fig. 5- Female carapace, left valve, external, lateral view, (J.T. 316); drilling depth 2718 m; X83.

Fig. 6- Female carapace, left valve, external, lateral view, surface reticulation in the posterior area, (J.T. 318); drilling depth 2732 m; X86.

Fig. 7- Female carapace, external, dorsal view, (J.T. 316); drilling depth 2718 m; X75.

Fig. 8- Female carapace, external, ventral view, (J.T. 319); drilling depth 2720 m; X71.

PLATE-62



EXPLANATION OF PLATE - 63

Peloriops (Peloriops) almasudii sp. nov.

All specimens from South Rumaila Well-104.

Fig. 1- Male carapace, left valve, external, lateral view, (holotype J.T. 329), stereoscopic paired photographs; drilling depth 2660 m; X89.

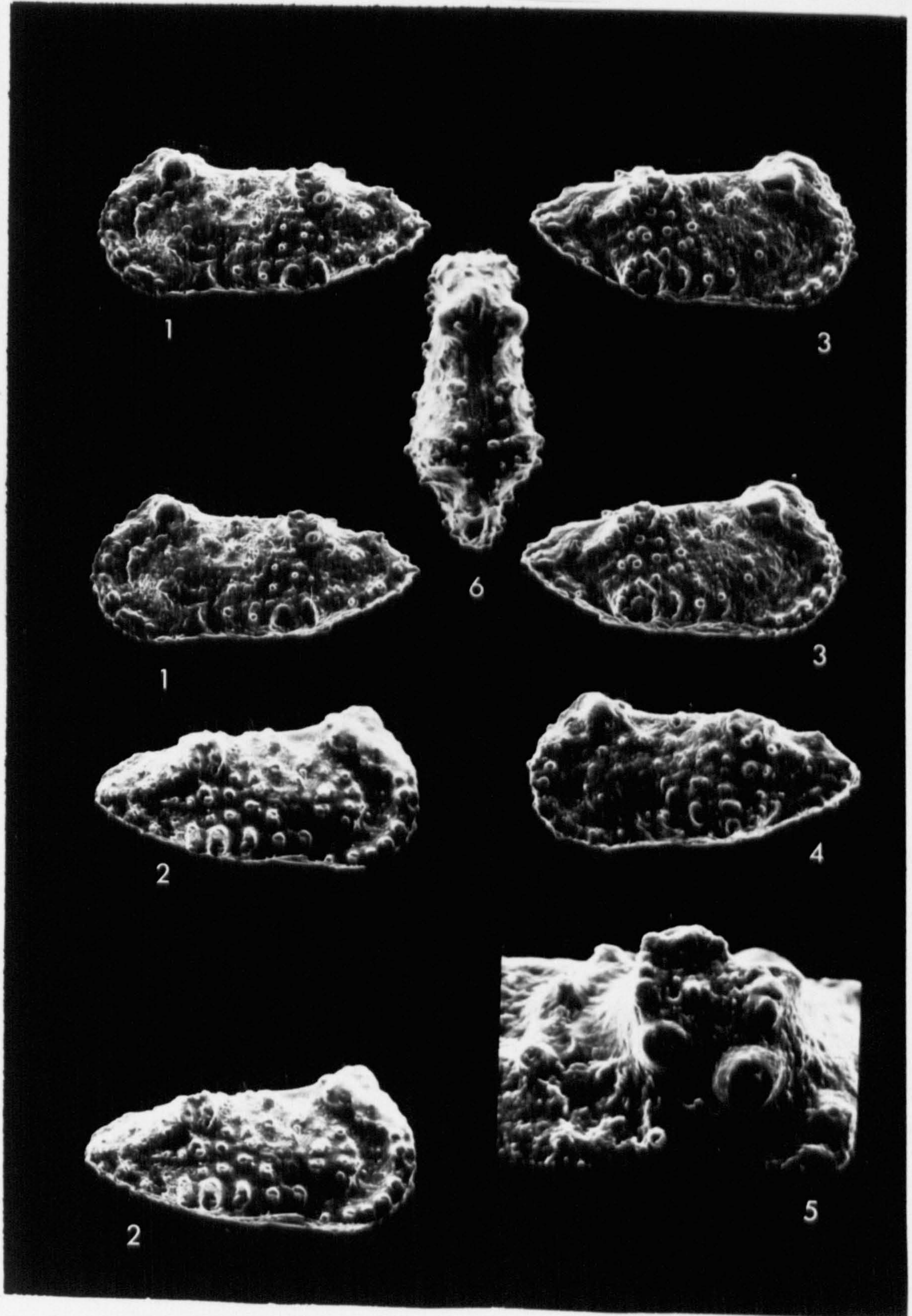
Fig. 2- Female carapace, right valve, external, lateral view, (paratype J.T. 330), stereoscopic paired photographs; drilling depth 2644 m; X94.

Fig. 3- Male carapace, right valve, external, lateral view, (paratype J.T. 326), stereoscopic paired photographs; drilling depth 2724 m; X83.

Fig. 4- Male carapace, left valve, external, lateral view, (paratype J.T. 328); drilling depth 2730 m; X89.

Fig. 5- Male carapace, left valve, external, lateral view, postero-dorsal tubercle formed as cluster shape, (holotype J.T. 329); drilling depth 2660 m; X95.

PLATE-63



EXPLANATION OF PLATE - 64

All specimens from South Rumaila Well-104.

Peloriops (Peloriops) alrazii sp. nov.

Fig. 1- Female carapace, right valve, external, lateral view, (holotype J.T. 331), stereoscopic paired photographs; drilling depth 2332 m; X75.

Fig. 2- Female carapace, left valve, external, lateral view, (holotype J.T. 331), stereoscopic paired photographs; drilling depth 2332 m; X74.

Fig. 3- Female carapace, external, dorsal view, (holotype J.T. 331); drilling depth 2332 m; X68.

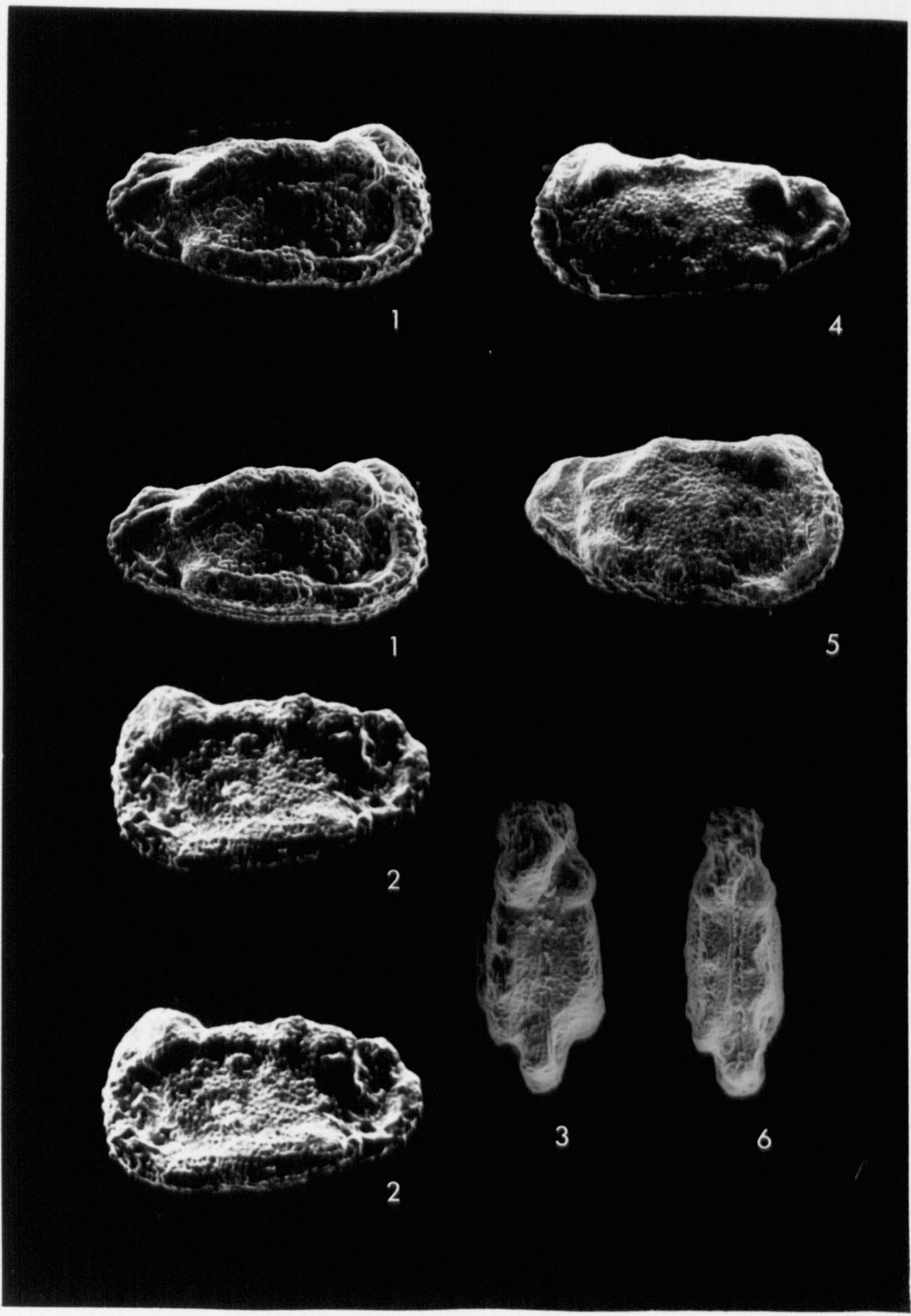
Peloriops (Peloriops) elassodictyota Al-Abdul-Razzaq, 1979.

Fig. 4- Carapace, left valve, external, lateral view, (J.T. 333); drilling depth 2716 m; X84.

Fig. 5- Carapace, right valve, external, lateral view, (J.T. 333); drilling depth 2716 m; X83.

Fig. 6- Carapace, external, dorsal view, (J.T. 333); drilling depth 2716 m; X74.

PLATE-64



EXPLANATION OF PLATE - 65

Peloriops (Peloriops) ibnalkasimi sp. nov.

All specimens from South Rumaila Well-104.

Fig. 1- Male carapace, right valve, external, lateral view, (holotype J.T. 334), stereoscopic paired photographs; drilling depth 2692 m; X77.

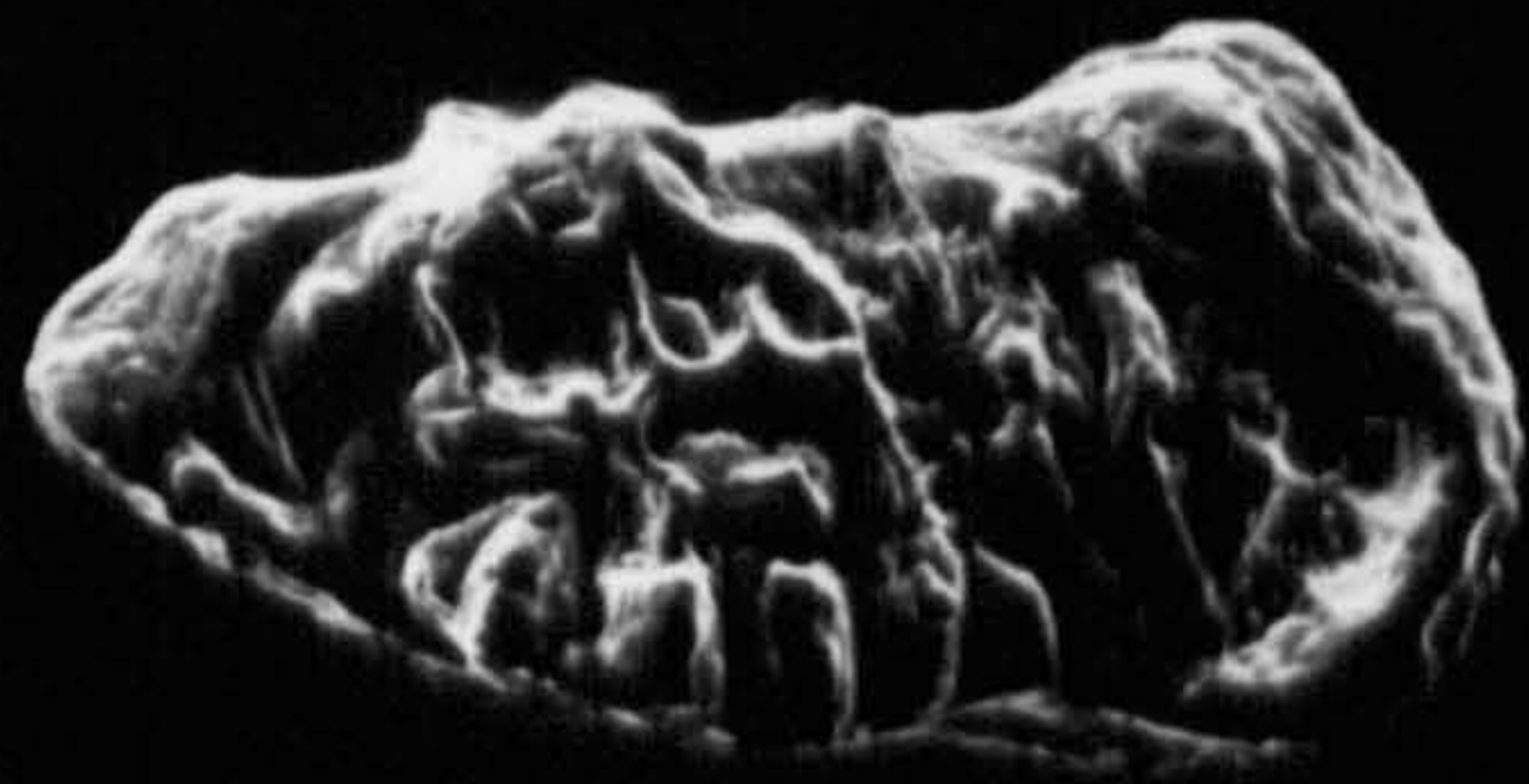
Fig. 2- Male carapace, left valve, external, lateral view, (holotype J.T. 334), stereoscopic paired photographs; drilling depth 2692 m; X74.

Fig. 3- Female carapace, left valve, external, lateral view, (paratype J.T. 336), stereoscopic paired photographs; drilling depth 2692 m; X87.

Fig. 4- Female carapace, right valve, external, lateral view, (paratype J.T. 336); drilling depth 2692 m; X87.

Fig. 5- Male carapace, external, dorsal view, (holotype J.T. 334); drilling depth 2692 m; X66.

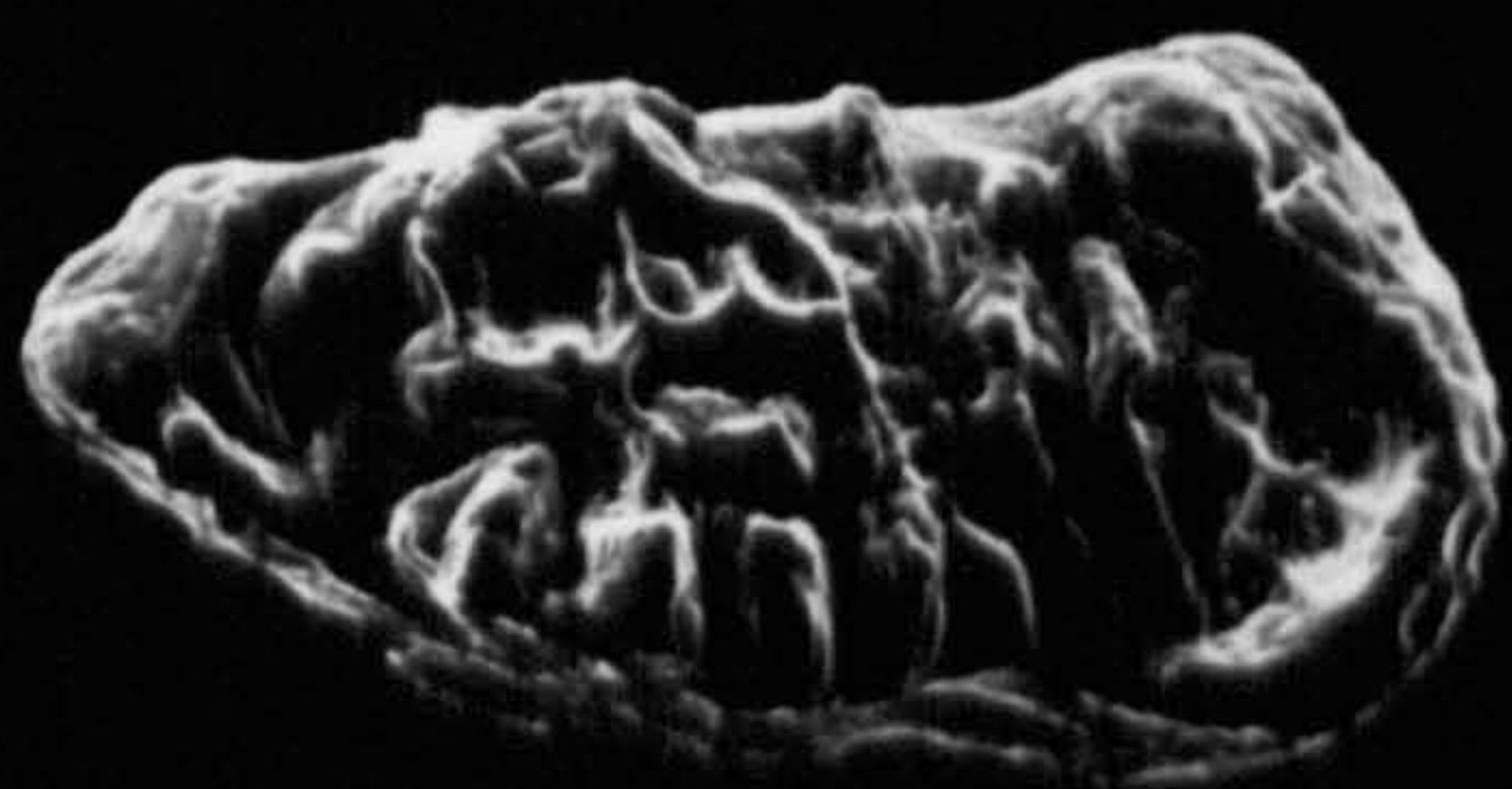
PLATE-65



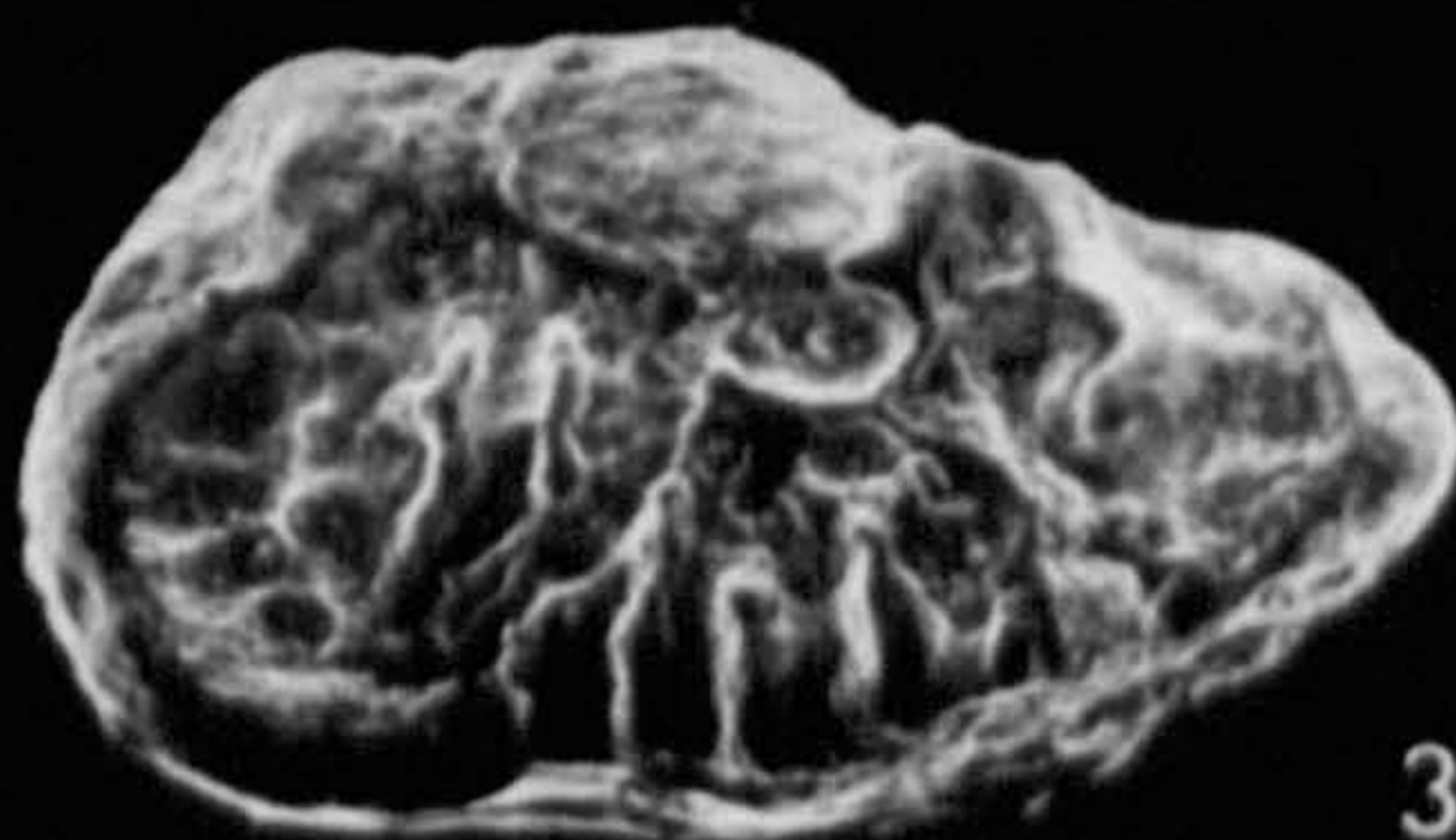
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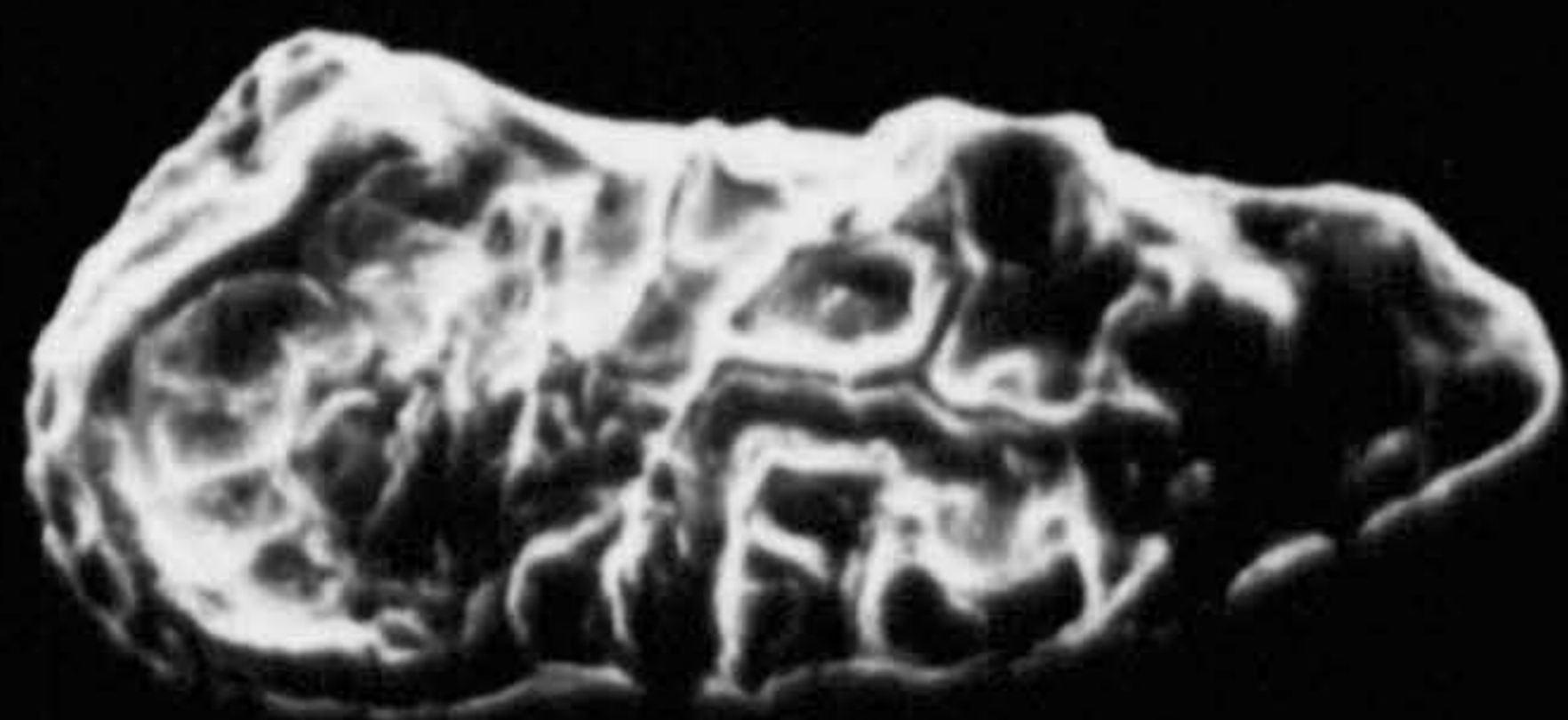
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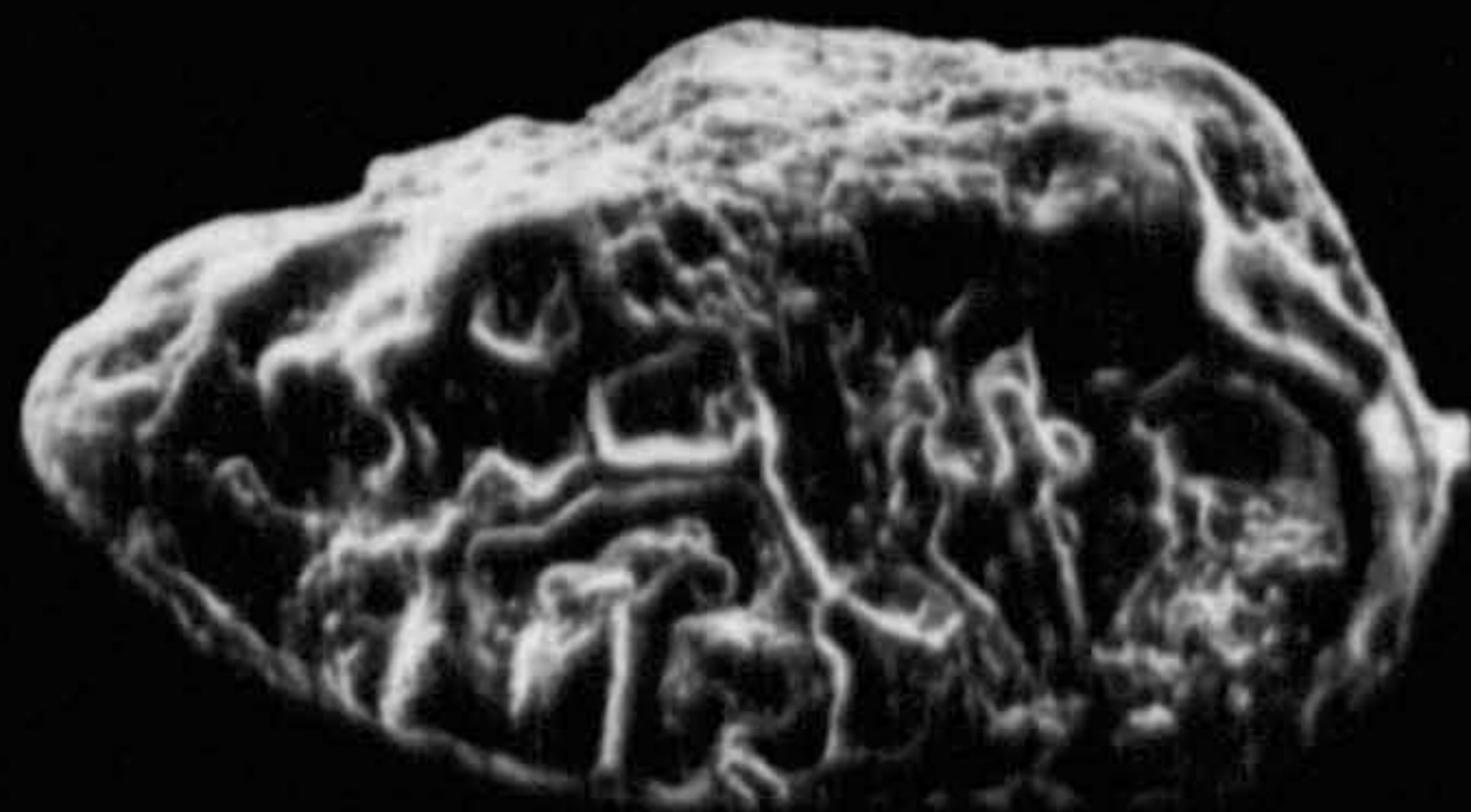
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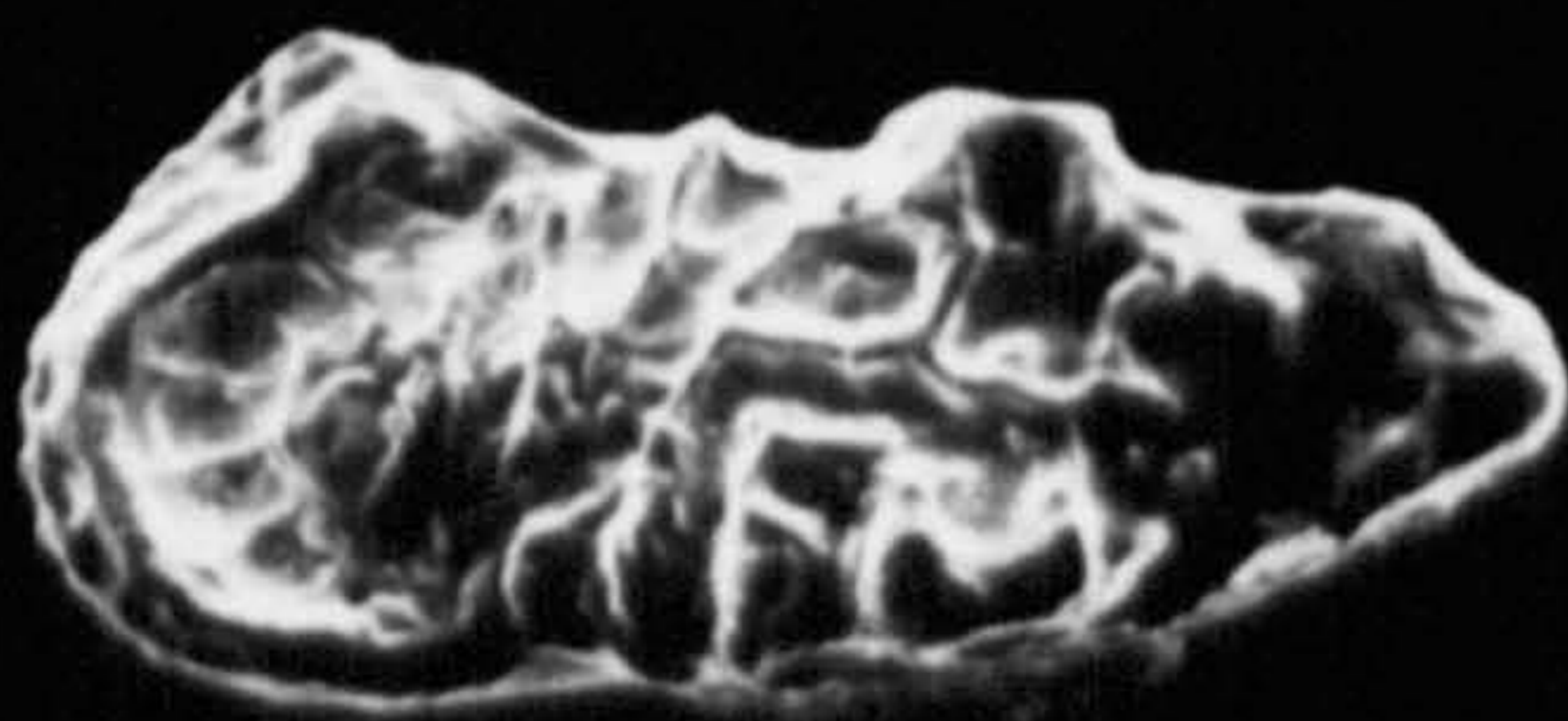
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EXPLANATION OF PLATE - 66

Peloriops (Peloriops) ibniraki sp. nov.

All specimens from South Rumaila Well-104.

Fig. 1- Female carapace, right valve, external, lateral view, (holotype J.T. 342), stereoscopic paired photographs; drilling depth 2716 m; X90.

Fig. 2- Male carapace, left valve, external, lateral view, (paratype J.T. 338), stereoscopic paired photographs; drilling depth 2714 m; X86.

Fig. 3- Male carapace, right valve, external, lateral view, (paratype J.T. 339), stereoscopic paired photographs; drilling depth 2744 m; X91.

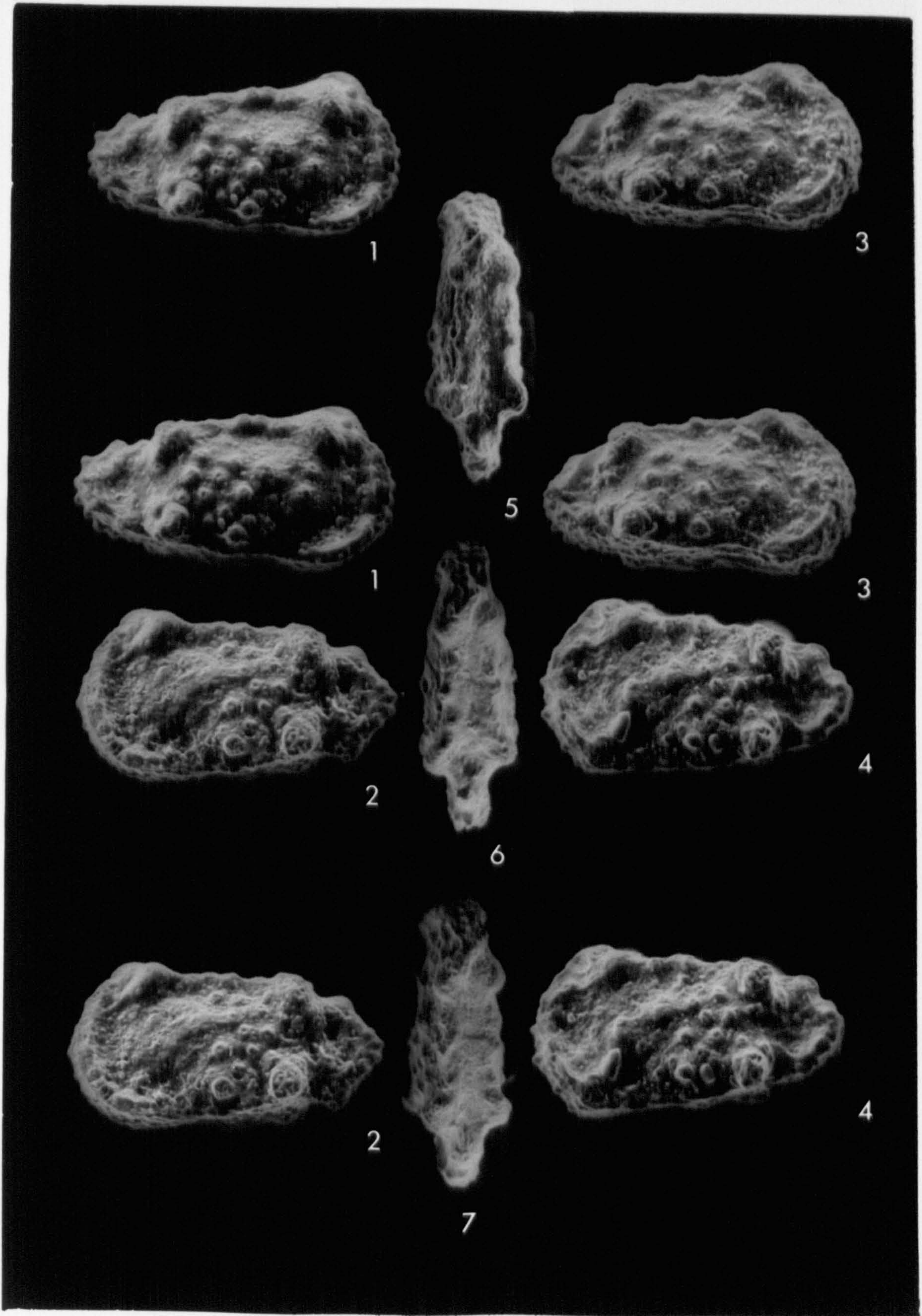
Fig. 4- Female carapace, left valve, external, lateral view (paratype J.T. 340), stereoscopic paired photographs; drilling depth 2714m; X83.

Fig. 5- Male carapace, external, dorsal view, (paratype J.T. 338); drilling depth 2714 m; X79.

Fig. 6- Female carapace, external, dorsal view, (holotype J.T. 342); drilling depth 2716 m; X80.

Fig. 7- Female carapace, external, dorsal view, (paratype J.T. 340); drilling depth 2714 m; X75.

PLATE-66



EXPLANATION OF PLATE - 67

Peloriops (Peloriops) ibniraki sp. nov.

All specimens from South Rumaila Well-104.

Fig. 1- Male carapace, right valve, external, lateral view, (paratype J.T. 337), stereoscopic paired photographs; drilling depth 2704 m; X84.

Fig. 2- Male carapace, right valve, external, lateral view, (paratype J.T. 339), stereoscopic paired photographs; drilling depth 2744 m; X109.

Fig. 3- Female carapace, right valve, external, posterolateral view, (holotype J.T. 342); drilling depth 2716 m; X104.

Fig. 4- Female carapace, external, dorsal view, enlargement of the nodes along the dorsal margin, (holotype J.T. 342); drilling depth 2716 m; X197.

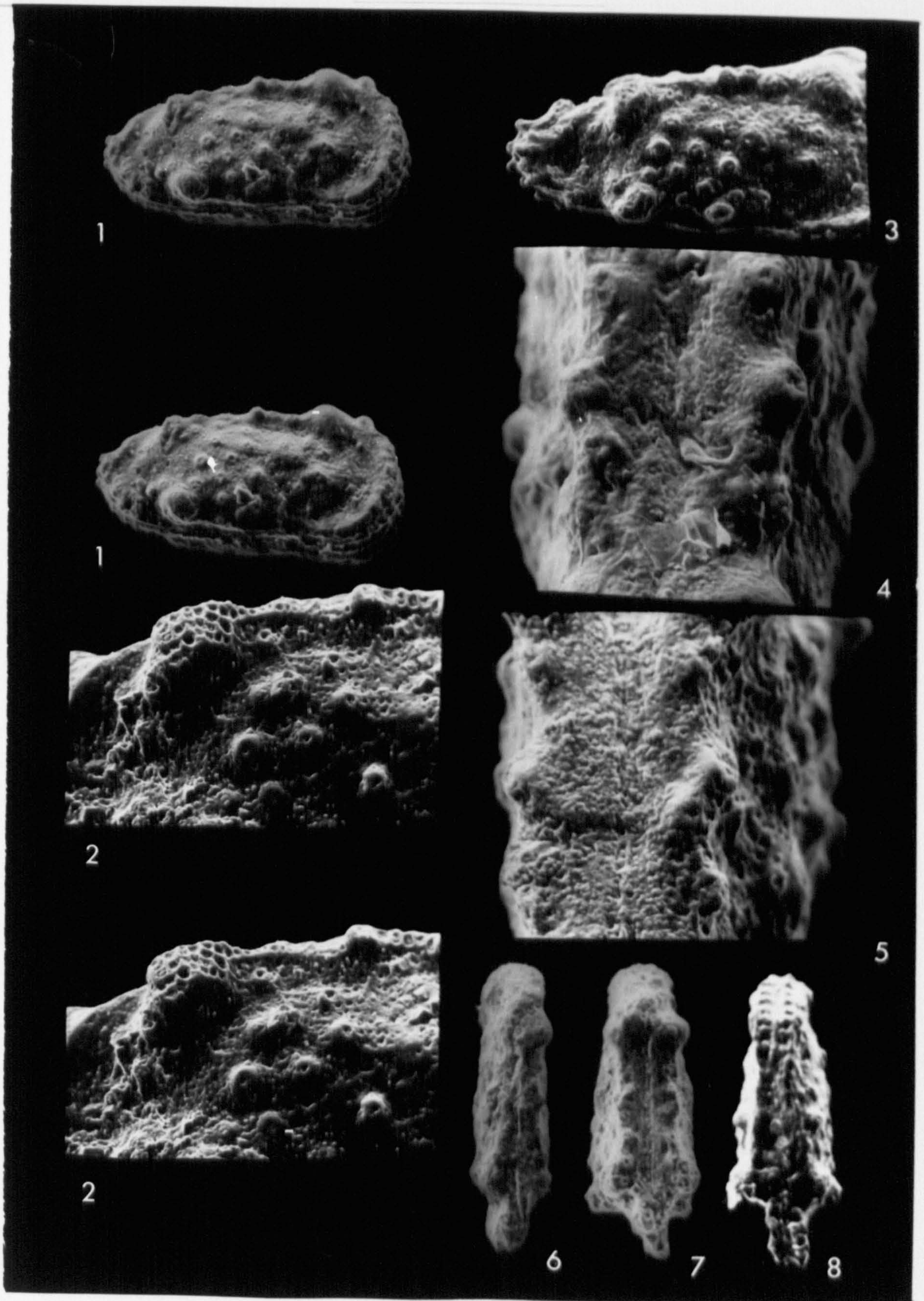
Fig. 5- Female carapace, external, dorsal view, enlargement of the nodes along the dorsal margins (paratype J.T. 340); drilling depth 2714 m; X167.

Fig. 6- Male carapace, external, dorsal view, (paratype J.T. 337); drilling depth 2704 m; X77.

Fig. 7- Female carapace, external, dorsal view, (paratype J.T. 341); drilling depth 2750 m; X82.

Fig. 8- Female carapace, external, ventral view, (holotype J.T. 342); drilling depth 2716 m; X81.

PLATE-67



EXPLANATION OF PLATE - 68

Peloriops (Peloriops) kiflaensis sp. nov.

All specimens from Kifl Well-2.

Fig. 1- Male carapace, right valve, external, lateral view, (holotype J.T. 344); drilling depth 5270 ft; X75.

Fig. 2- Male carapace, left valve, external, lateral view, (paratype J.T. 343); drilling depth 5510 ft; X85.

Fig. 2A- Female carapace, external, dorsal view, (holotype J.T. 344); drilling depth 5270 ft; X67.

Peloriops (Peloriops) aff. tetrancota Al-Abdul-Razzaq, 1979.

All specimens from Kifl Well-2.

Fig. 3- Left valve, internal, lateral views, (J.T. 345), stereoscopic paired photographs; drilling depth 4650 ft; X79.

Fig. 4- Left valve, external, lateral view, (J.T. 345); drilling depth 4650 ft; X81.

Peloriops (Peloriops) ulosa Al-Abdul-Razzaq, 1979.

All specimens from South Rumaila Well-104.

Fig. 5- Male carapace, left valve, external, lateral view, (J.T. 347); drilling depth 2656 m; X66.

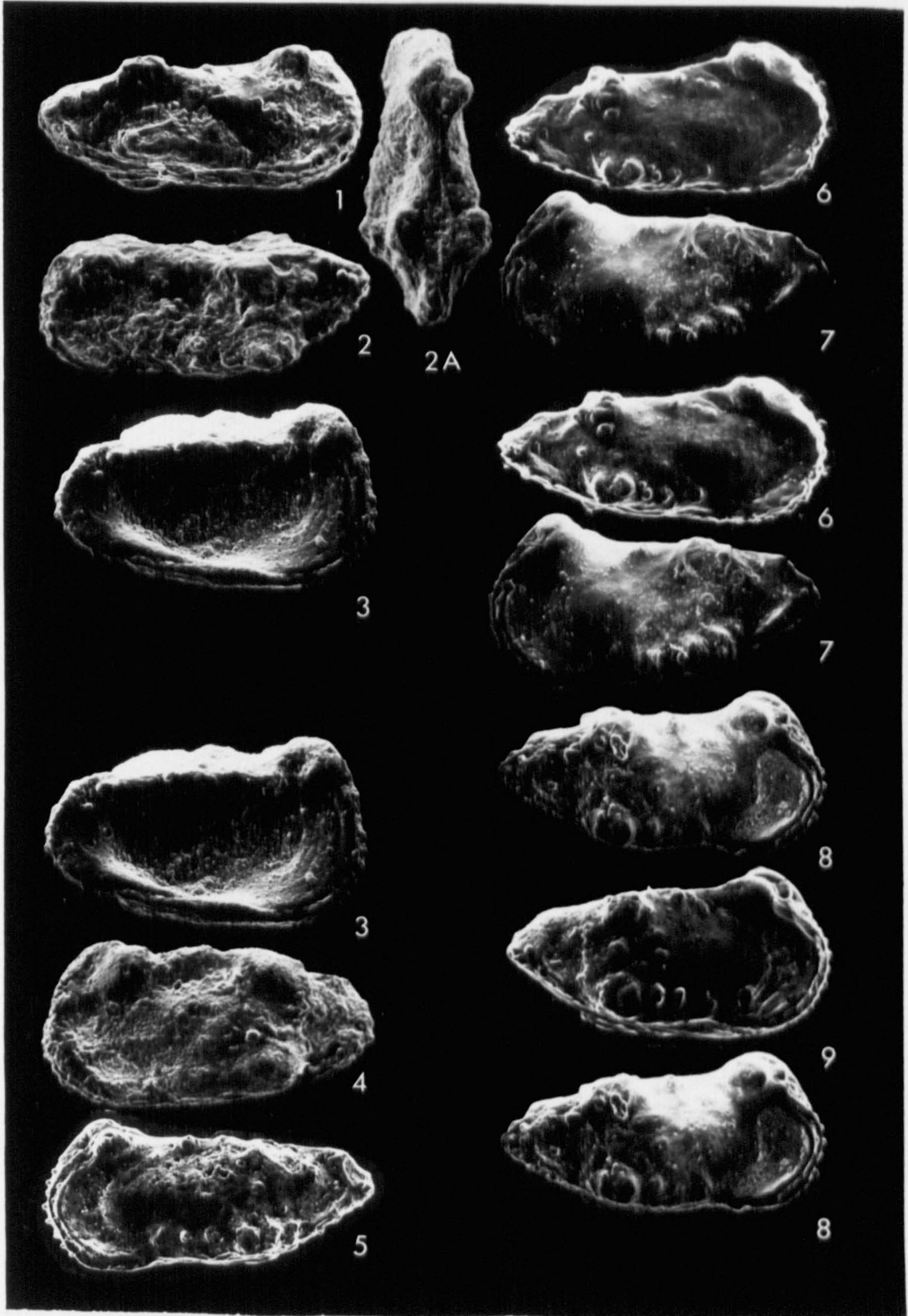
Fig. 6- Male carapace, right valve, external, lateral view, (J.T. 350), stereoscopic paired photographs; drilling depth 2718 m; X83.

Fig. 7- Female carapace, left valve, external, lateral view, (J.T. 352), stereoscopic paired photographs; drilling depth 2672 m; X68.

Fig. 8- Female carapace, right valve, external, lateral view, (J.T. 351), stereoscopic paired photographs; drilling depth 2704 m; X74.

Fig. 9- Female carapace, right valve, external, lateral view, (J.T. 357); drilling depth 2664 m; X82.

PLATE-68



EXPLANATION OF PLATE - 69

Peloriops (Peloriops) ulosa Al-Abdul-Razzaq, 1979.

All specimens from South Rumaila Well-104

Fig. 1- Male carapace, left valve, external, lateral view, (J.T. 348), stereoscopic paired photographs; drilling depth 2654 m; X72.

Fig. 2- Female carapace, right valve, external, lateral view, (J.T. 355), stereoscopic paired photographs; drilling depth 2736 m; X80.

Fig. 3- Female carapace, left valve, external, lateral view, (J.T. 360), stereoscopic paired photographs; drilling depth 2666 m; X93.

Fig. 4- Male carapace, right valve, external, lateral view, (J.T. 346), stereoscopic paired photographs; drilling depth 2692 m; X63.

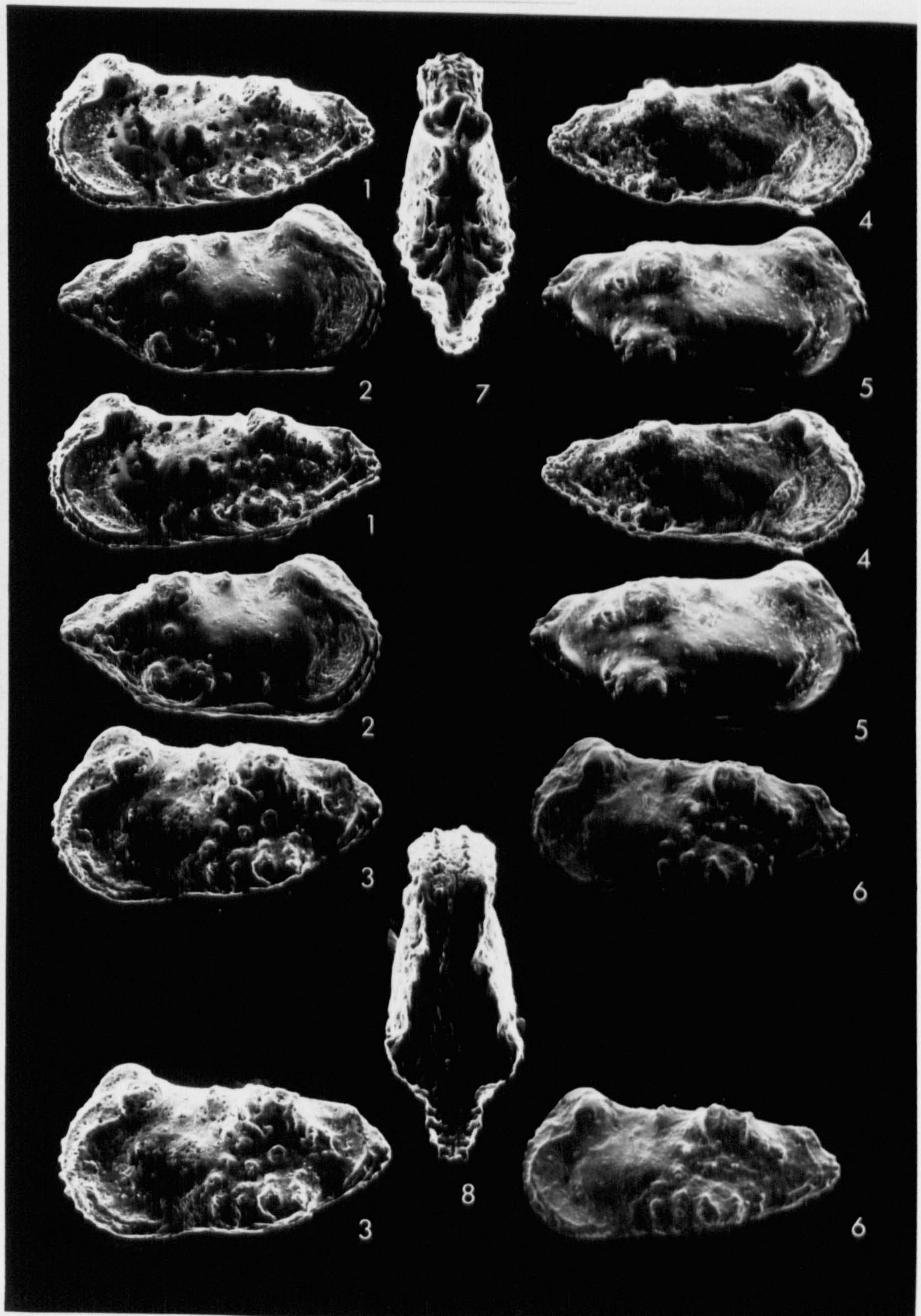
Fig. 5- Female, right valve, external, lateral view, (J.T. 356), stereoscopic paired photographs; drilling depth 2662 m; X83.

Fig. 6- Male carapace, left valve, external, lateral view, (J.T. 363), stereoscopic paired photographs; drilling depth 2644 m; X74.

Fig. 7- Male carapace, external, dorsal view, (J.T. 349); drilling depth 2662 m; X65.

Fig. 8- Female carapace, external, ventral view, (J.T. 354); drilling depth 2654 m; X74.

PLATE-69



EXPLANATION OF PLATE - 70

Peloriops (Hemipeloriops) djabirbnhaiyani sp. nov.

All specimens from Ghalaisan Well-1.

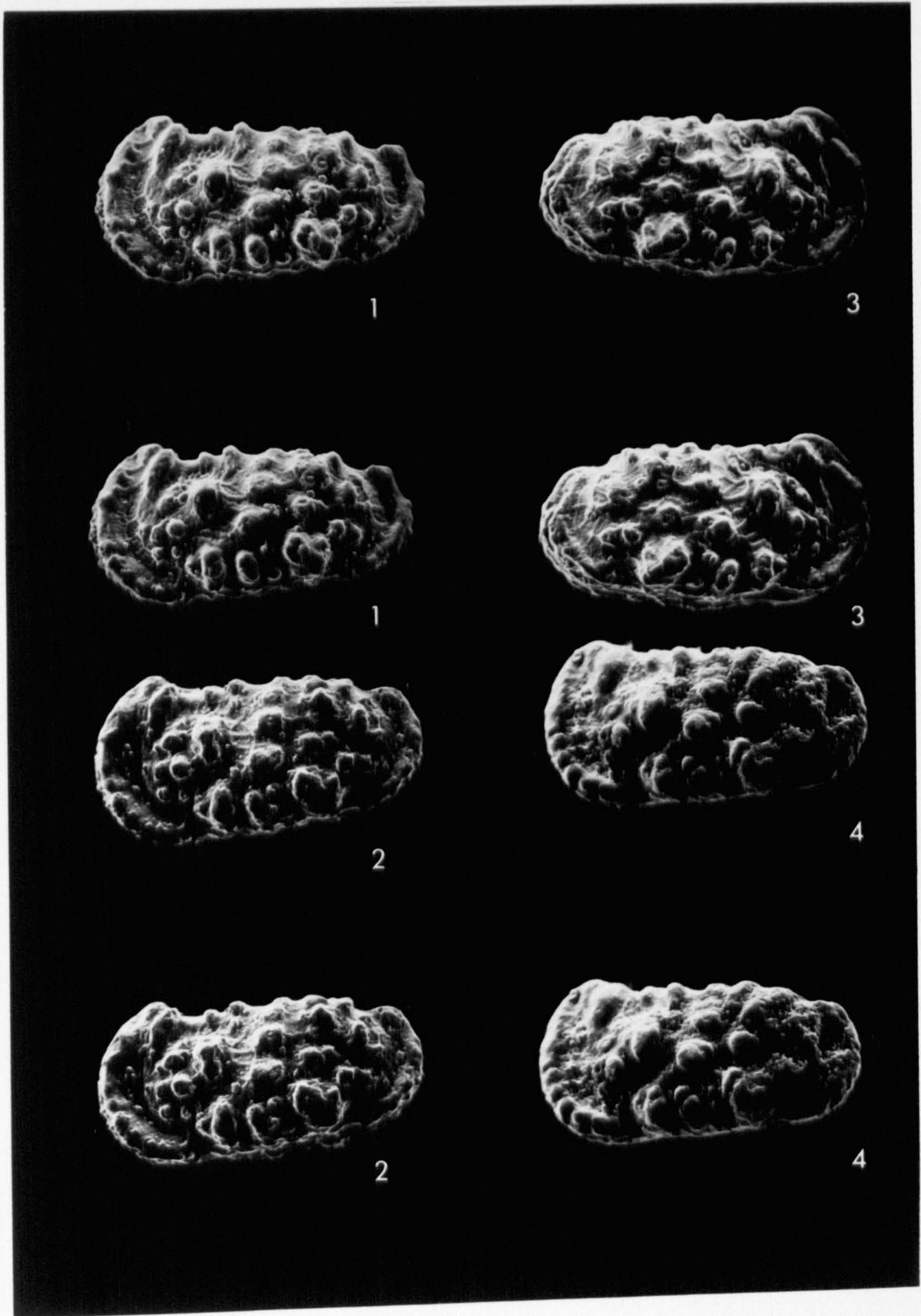
Fig. 1- Male left valve, external, lateral view, (holotype J.T. 364), stereoscopic paired photographs; drilling depth 3725 ft; X77.

Fig. 2- Male carapace, left valve, external, lateral view, (paratype J.T. 365), stereoscopic paired photographs; drilling depth 3725 ft; X81.

Fig. 3- Male carapace, external, lateral view, (paratype J.T. 366), stereoscopic paired photographs; drilling depth 4095 ft; X82.

Fig. 4- Male carapace, left valve, external, lateral view, (paratype J.T. 367), stereoscopic paired photographs; drilling depth 4315 ft; X78.

PLATE-70



EXPLANATION OF PLATE - 71

All specimens from Ghalaisan Well-1.

Peloriops (Hemipeloriops) djabirbnhaiyani sp. nov.

Fig. 1- Male carapace, left valve, external, lateral view, (paratype J.T. 366), stereoscopic paired photographs; drilling depth 4095 ft; X82.

Fig. 2- Male carapace, right valve, external, lateral view, (paratype J.T. 367); drilling depth 4315 ft; X78.

Fig. 3- Male left valve, internal, lateral view, (holotype J.T. 364), stereoscopic paired photographs; drilling depth 3725 ft; X77.

Fig. 4- Male carapace, external, dorsal view, (paratype J.T. 365); drilling depth 3725 ft; X72.

Fig. 5- Male carapace, external, ventral view, (paratype J.T. 366); drilling depth 4095 ft; X72.

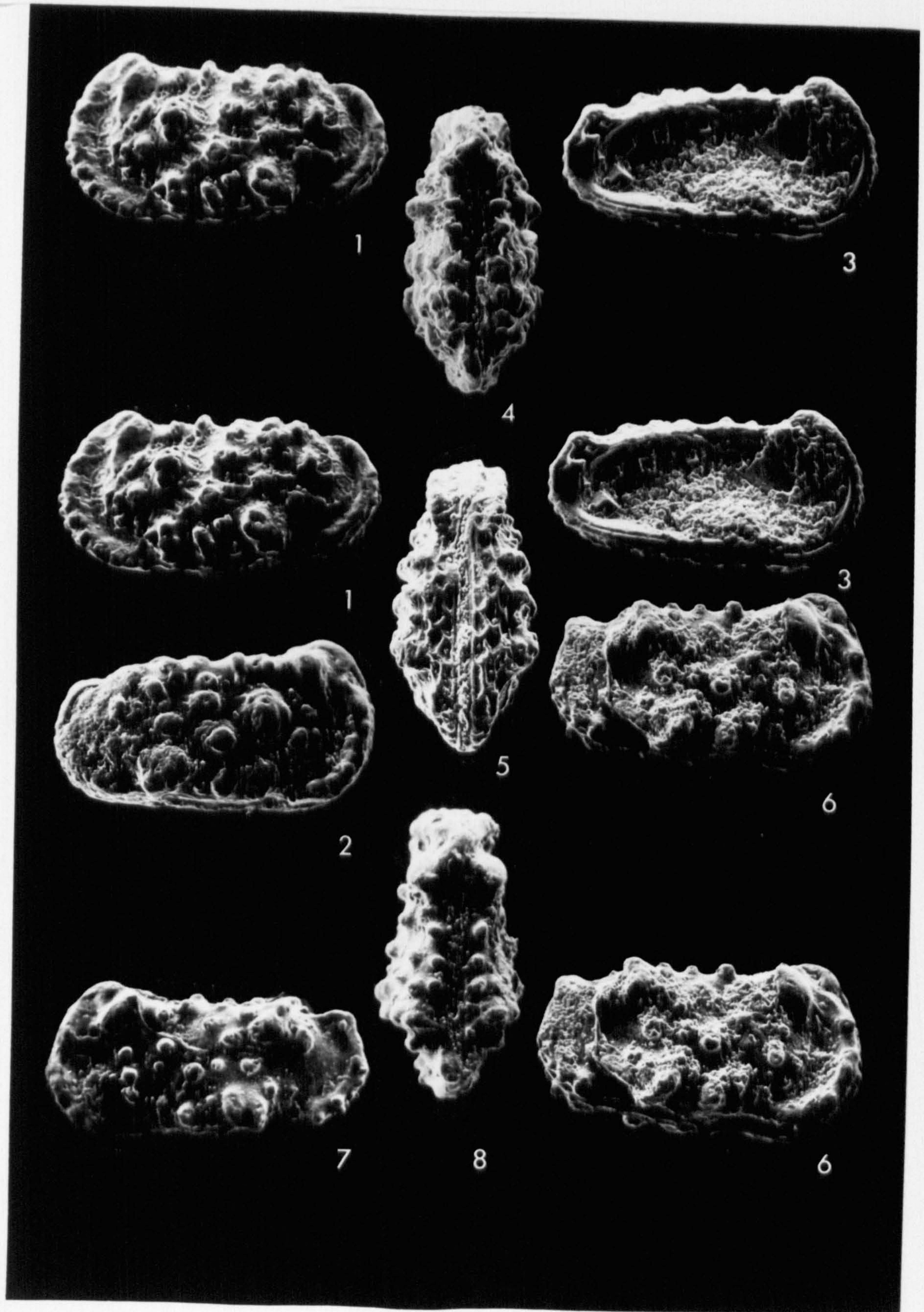
Peloriops (Hemipeloriops) cf. djabirbnhaiyani sp. nov.

Fig. 6- Male carapace, right valve, external, lateral view, (J.T. 368); drilling depth 4310 ft; X74.

Fig. 7- Male carapace, left valve, external, lateral view, (J.T. 368); drilling depth 4310 ft; X73.

Fig. 8- Male carapace, external, dorsal view, (J.T. 368); drilling depth 4310 ft; X64.

PLATE-71



EXPLANATION OF PLATE - 72

Peloriops (Hemipeloriops) kufaensis sp. nov.

All specimens from Ghalaisan Well-1.

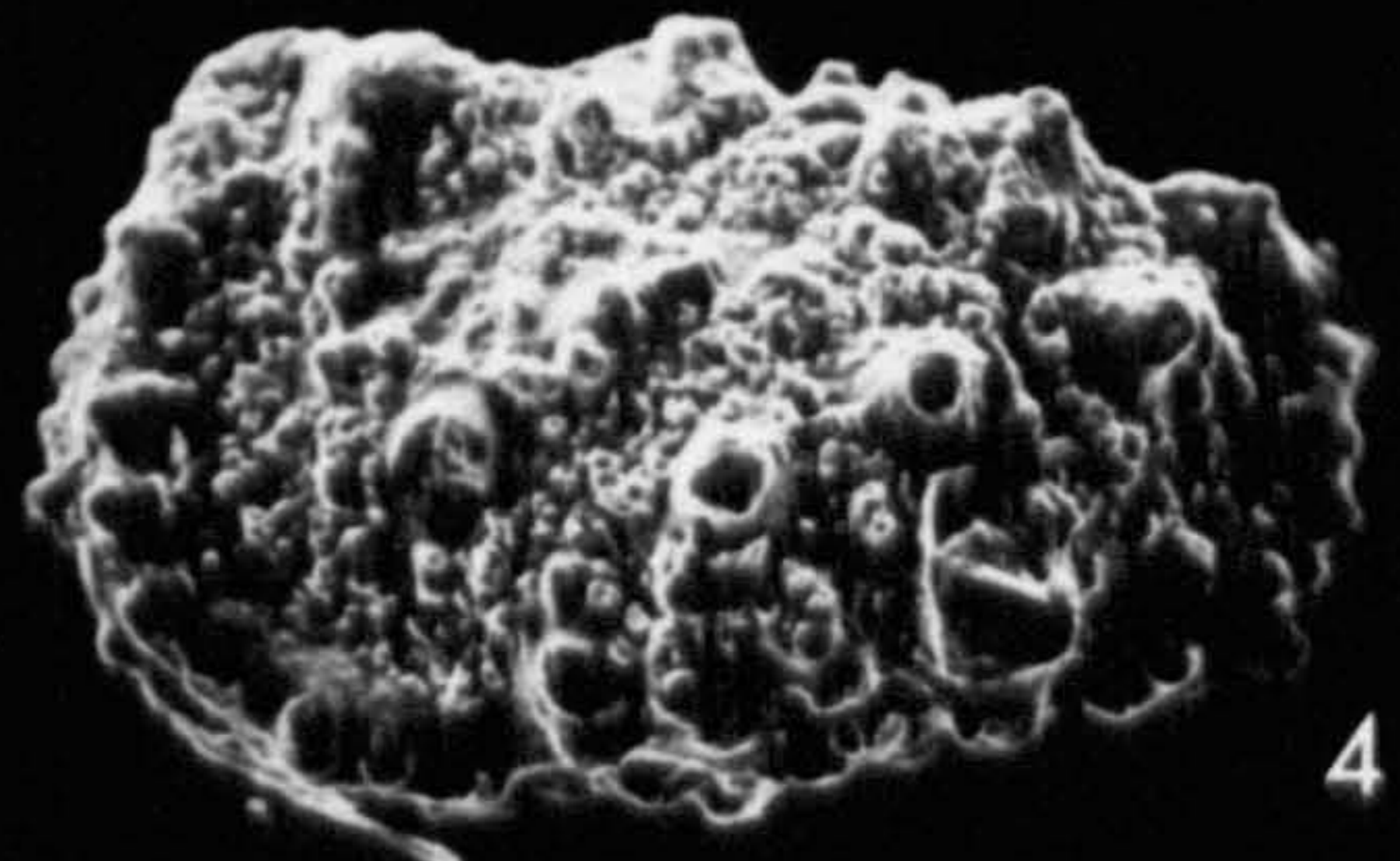
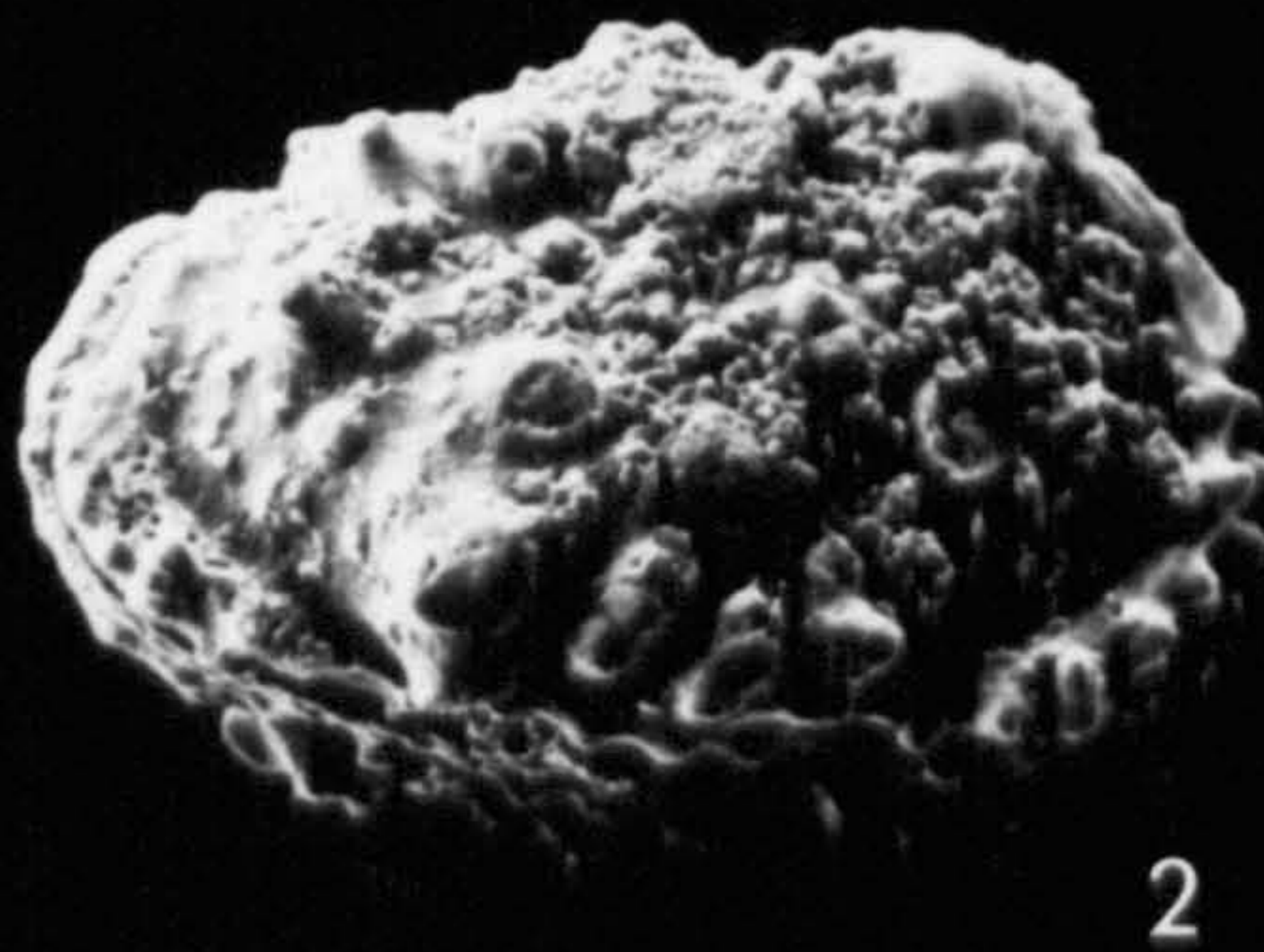
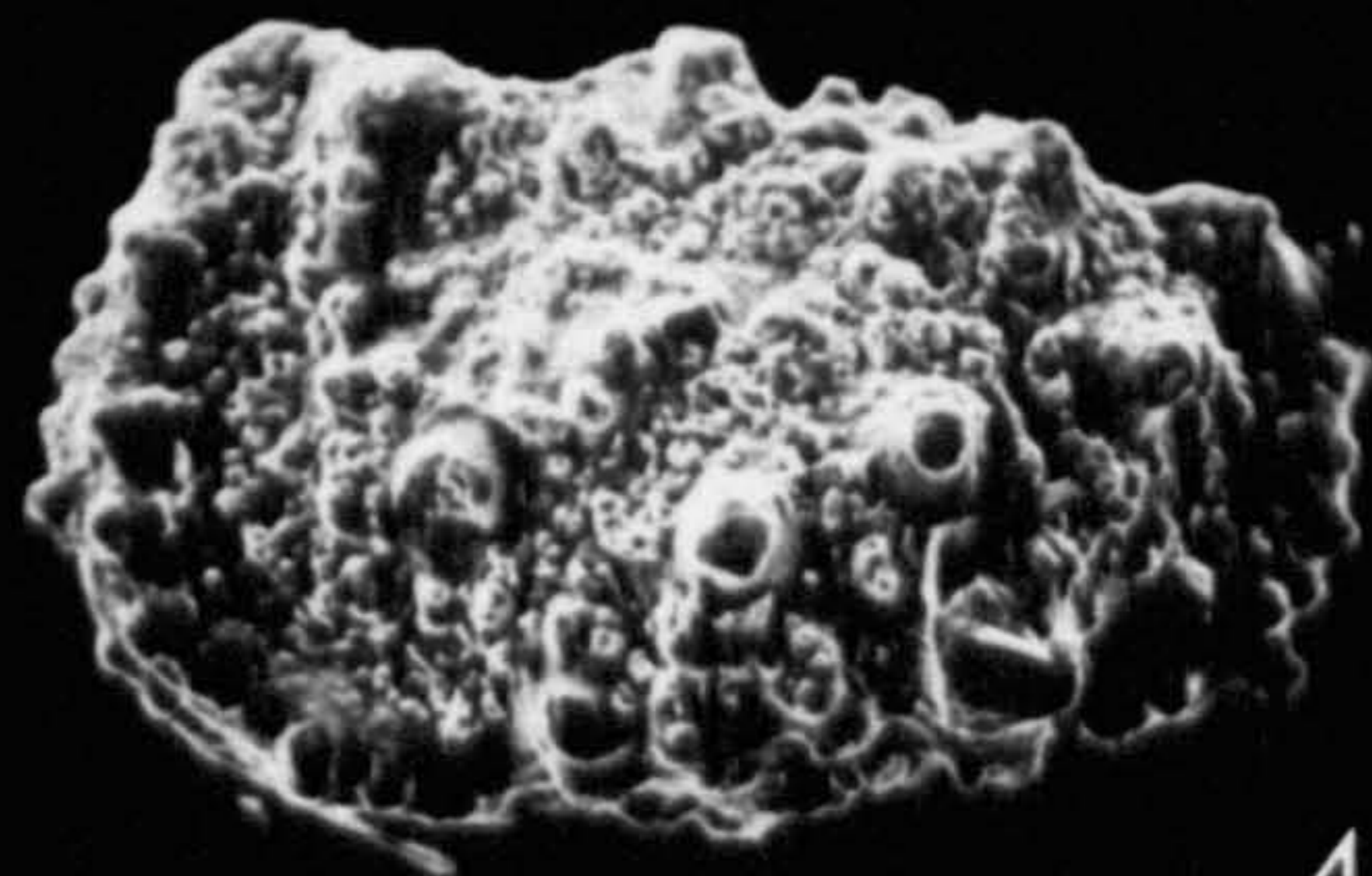
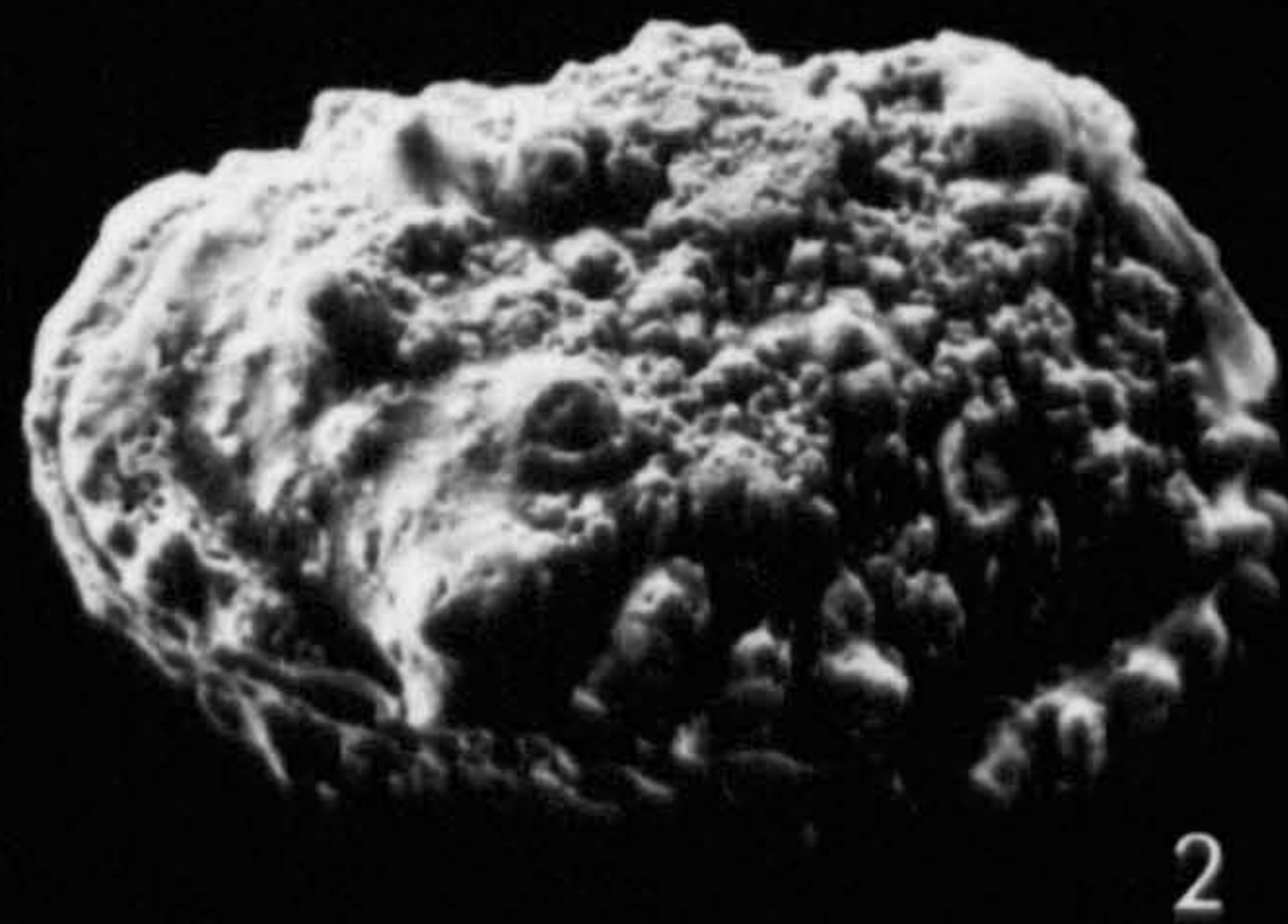
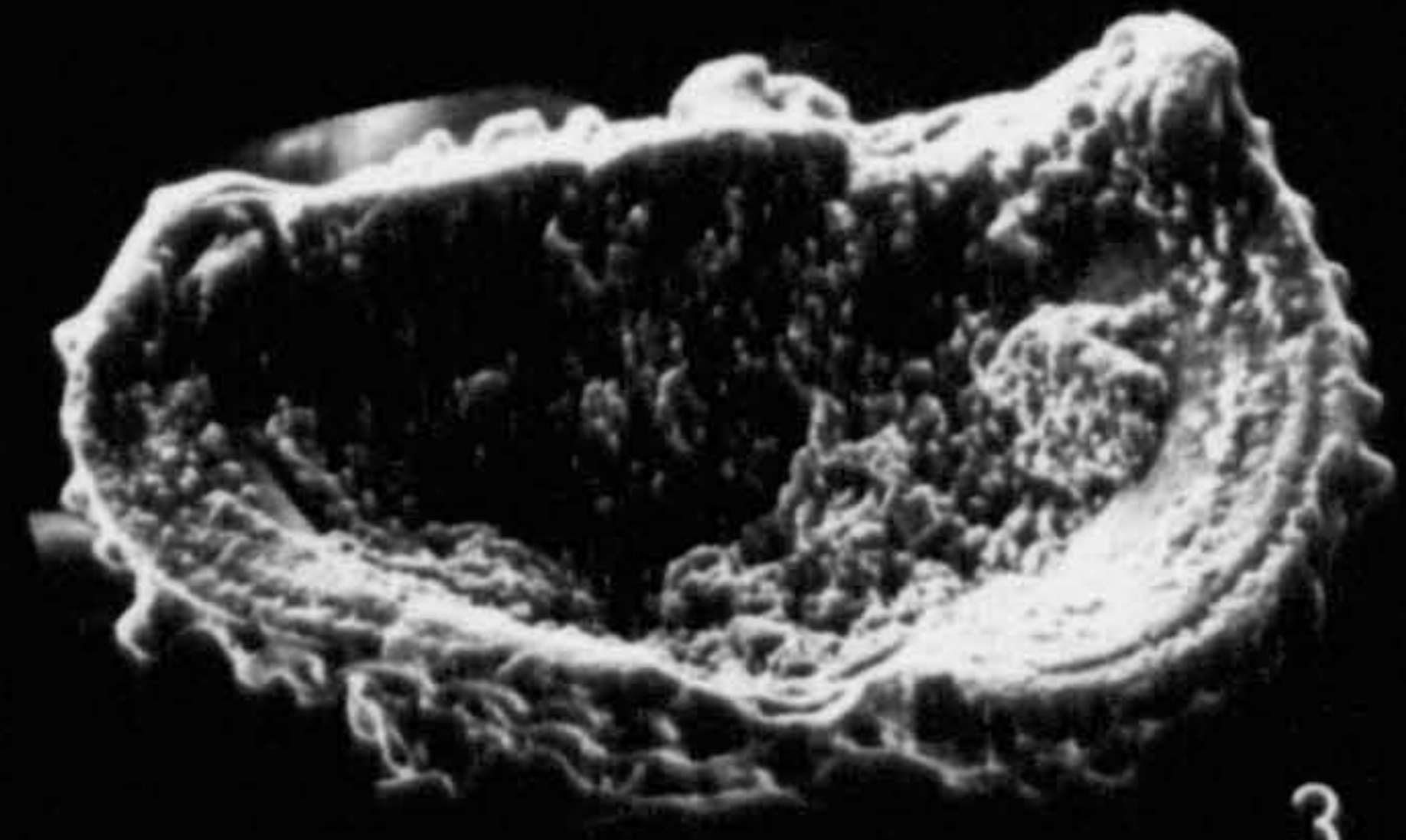
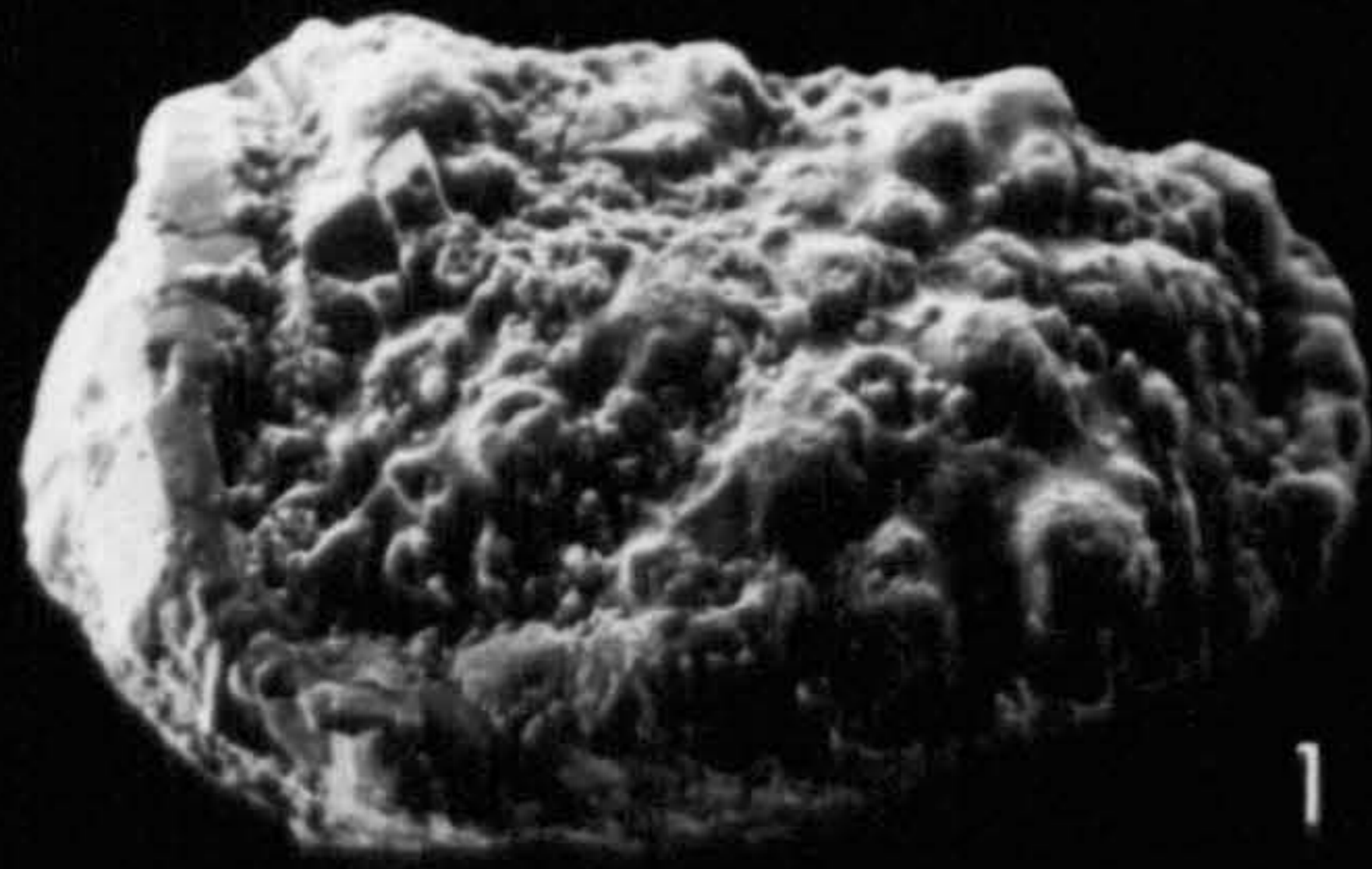
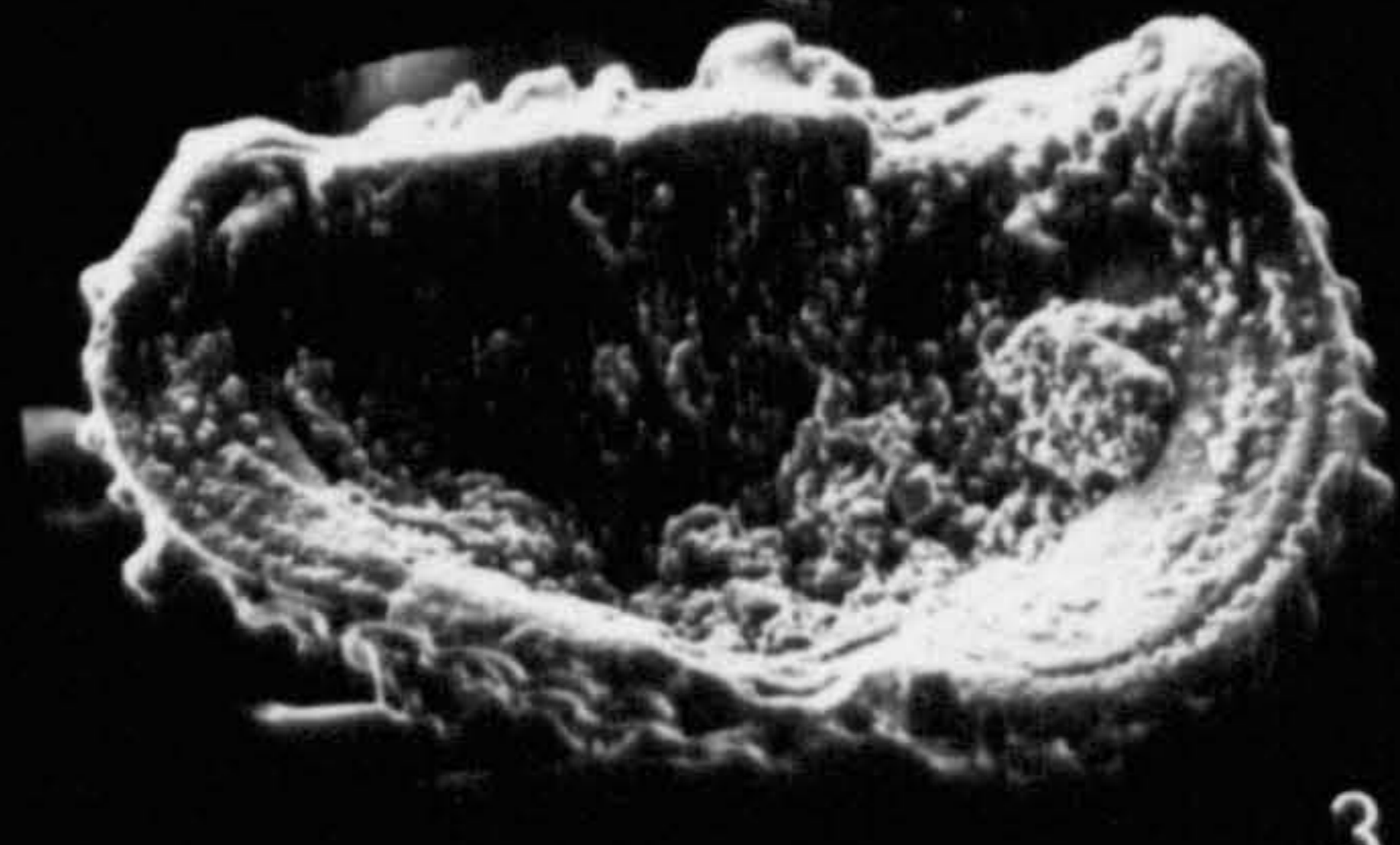
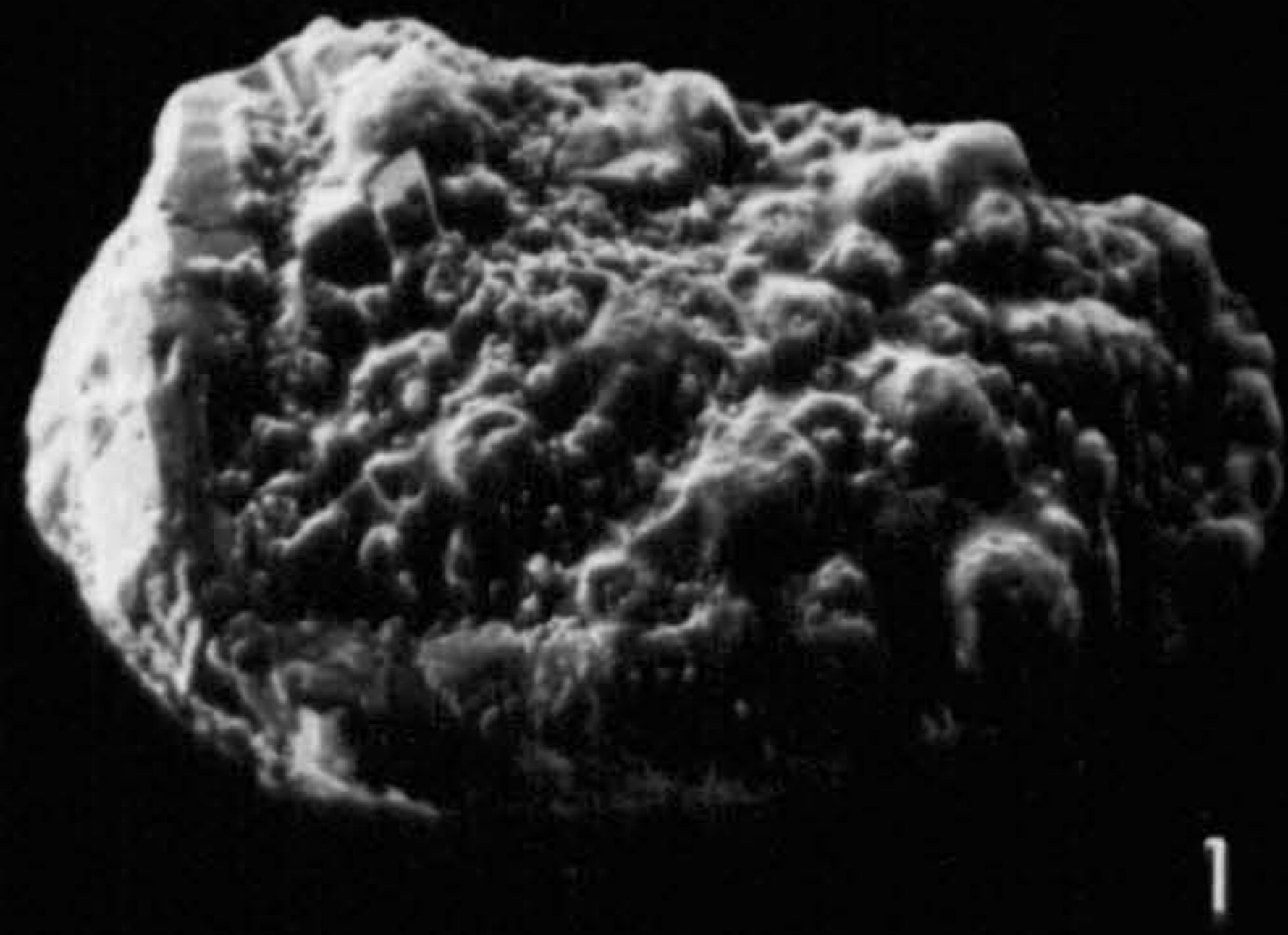
Fig. 1- Female carapace, left valve, external, lateral view, (paratype J.T. 371), stereoscopic paired photographs; drilling depth 3850 ft; X71.

Fig. 2- Female carapace, right valve, external, lateral view, (paratype J.T. 372), stereoscopic paired photographs; drilling depth 3715 ft; X72.

Fig. 3- Female left valve, internal, lateral view, (holotype J.T. 370), stereoscopic paired photographs; drilling depth 3750 ft; X71.

Fig. 4- Female left valve, external, lateral view, (holotype J.T. 370), stereoscopic paired photographs; drilling depth 3750 ft; X71.

PLATE-72



EXPLANATION OF PLATE - 73

Phymacythereis santoniensis Al-Abdul-Razzaq, M.S., 1977.

All specimens from Kifl Well-2.

Fig. 1- carapace, left valve, external, lateral view, (J.T. 373), stereoscopic paired photographs; drilling depth 4355 ft; X75.

Fig. 2- carapace, right valve, external, lateral view, (J.T. 373), stereoscopic photographs; drilling depth 4355 ft; X76.

Fig. 3- carapace, external, dorsal view, (J.T. 373); drilling depth 4355 ft; X66.

Rehacythereis alkindii sp. nov.

All specimens from South Rumaila Well-104.

Fig. 4- Female carapace, left valve, external, lateral view, (paratype J.T. 378), stereoscopic paired photographs; drilling depth 2654 m; X93.

Fig. 5- Male carapace, right valve, external, lateral view, (paratype J.T. 374), stereoscopic paired photographs; drilling depth 2736 m; X80.

PLATE-73



EXPLANATION OF PLATE - 74

Rehacythereis alkindii sp. nov.

All specimens from South Rumaila Well-104.

Fig. 1- Male carapace, left valve, external, lateral view, (holotype J.T. 376), stereoscopic paired photographs; drilling depth 2684 m; X83.

Fig. 2- Female carapace, left valve, external, lateral view, (paratype J.T. 377), stereoscopic paired photographs; drilling depth 2654 m; X90.

Fig. 3- Male carapace, right valve, external, lateral view, (holotype J.T. 376), stereoscopic paired photographs; drilling depth 2684 m; X82.

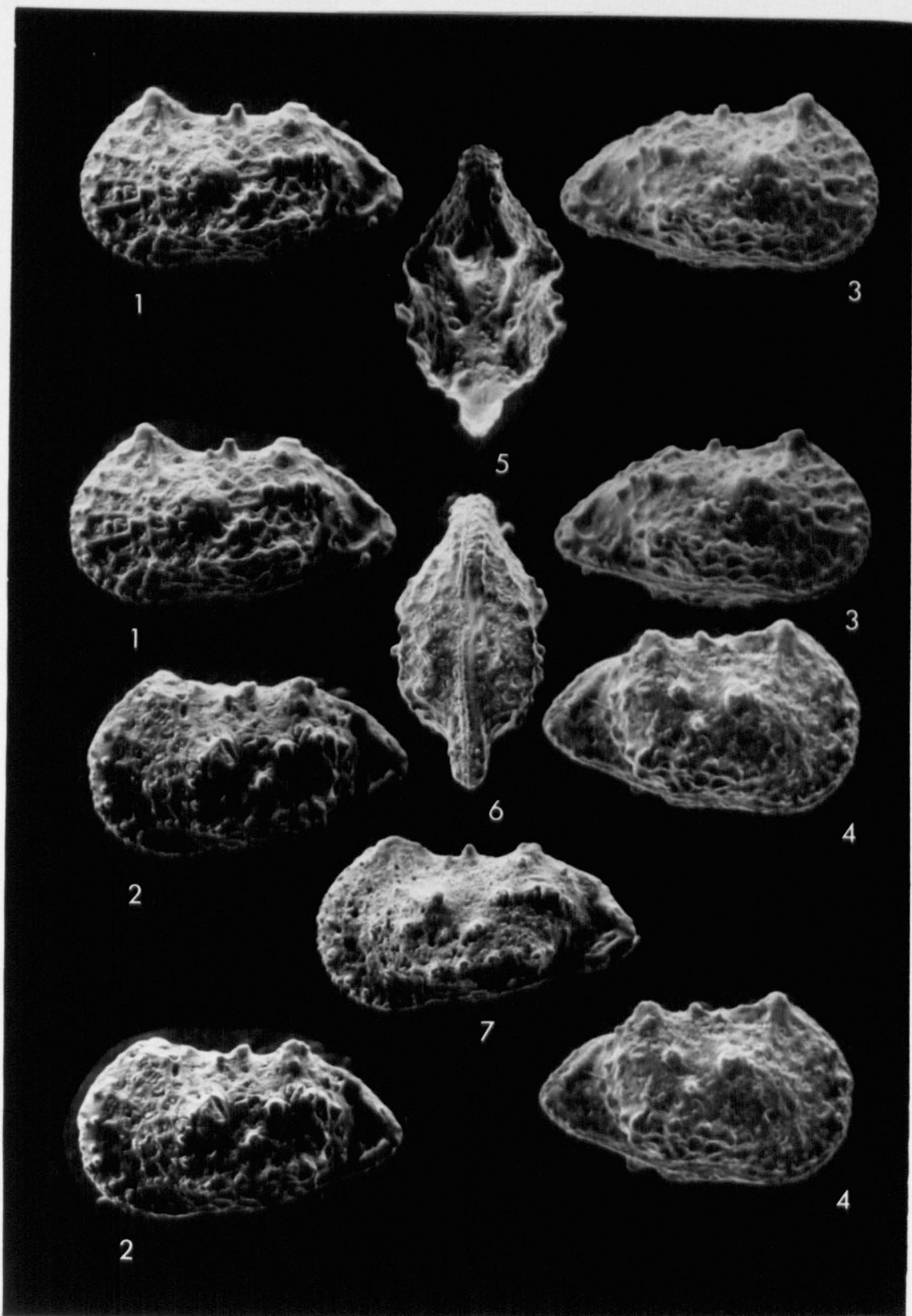
Fig. 4- Female carapace, right valve, external, lateral view, (paratype J.T. 377), stereoscopic paired photographs; drilling depth 2654 m; X88.

Fig. 5- Female carapace, external, dorsal view, (paratype J.T. 379); drilling depth 2644 m; X85.

Fig. 6- Female carapace, external, ventral view, (paratype J.T. 379); drilling depth 2644 m; X83.

Fig. 7- Male carapace, left valve, external, lateral view, (paratype J.T. 380); drilling depth 2664 m; X86.

PLATE-74



EXPLANATION OF PLATE - 75

Rehacythereis almutasimi sp. nov.

All specimens from South Rumaila Well-104.

Fig. 1- Female carapace, left valve, external, lateral view, (holotype J.T. 391), stereoscopic paired photographs; drilling depth 2694 m; X70.

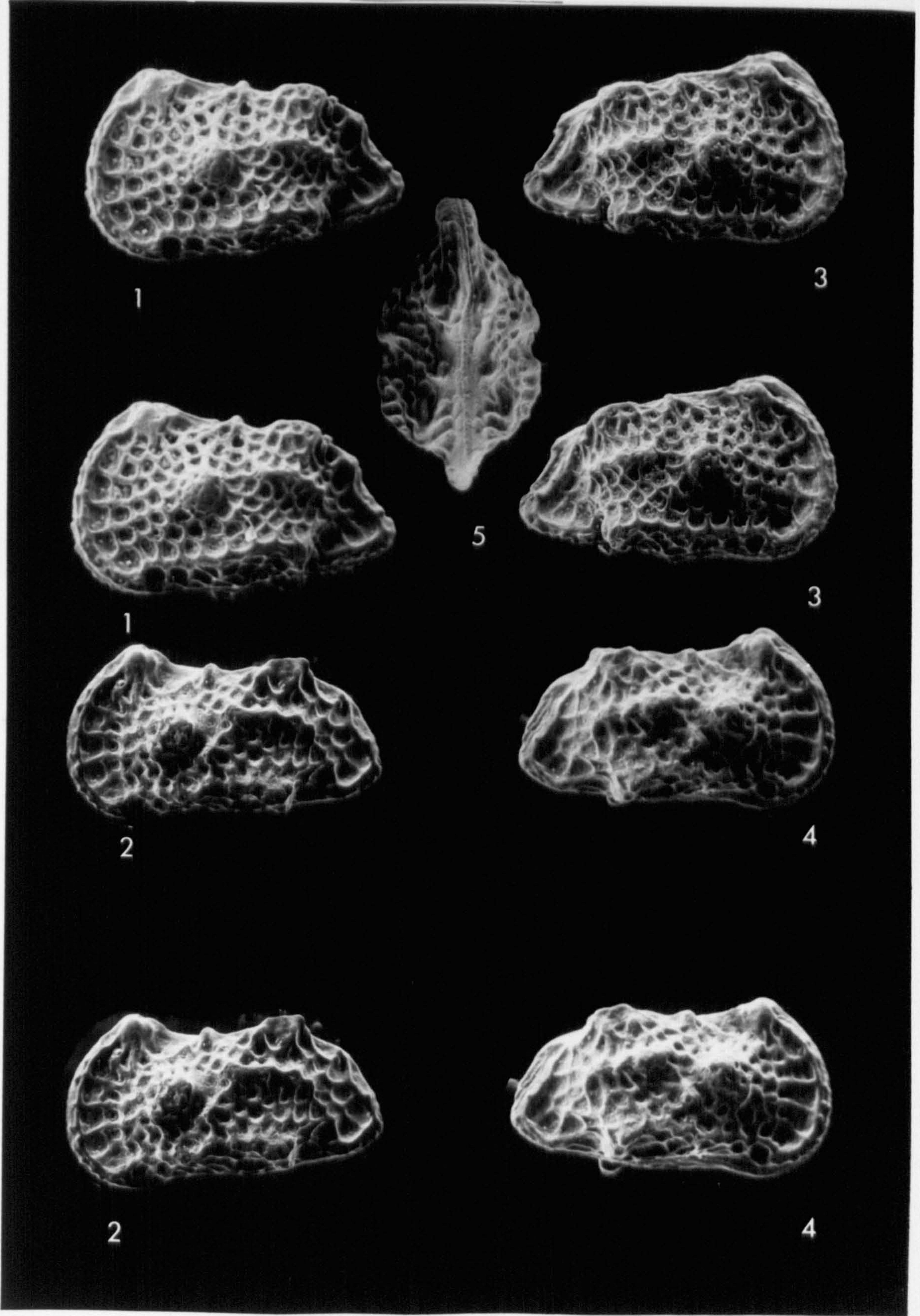
Fig. 2- Male carapace, left valve, external, lateral view, (paratype J.T. 382), stereoscopic paired photographs; drilling depth 2672 m; X56.

Fig. 3- Female carapace, right valve, external, lateral view, (holotype J.T. 391), stereoscopic paired photographs; drilling depth 2694 m; X70.

Fig. 4- Male carapace, right valve, external, lateral view, (paratype J.T. 382), stereoscopic paired photographs; drilling depth 2672 m; X56.

Fig. 5- Female carapace, external, dorsal view, (holotype J.T. 391); drilling depth 2694 m; X64.

PLATE-75



EXPLANATION OF PLATE - 76

Rehacythereis almutasimi sp. nov.

Fig. 1- Female carapace, left valve, external, lateral view, (paratype J.T. 390), stereoscopic paired photographs; South Rumaila Well-104, drilling depth 2674 m; X64.

Fig. 2- Male carapace, right valve, external, lateral view, (paratype J.T. 381); South Rumaila Well-104, drilling depth 2678 m; X56.

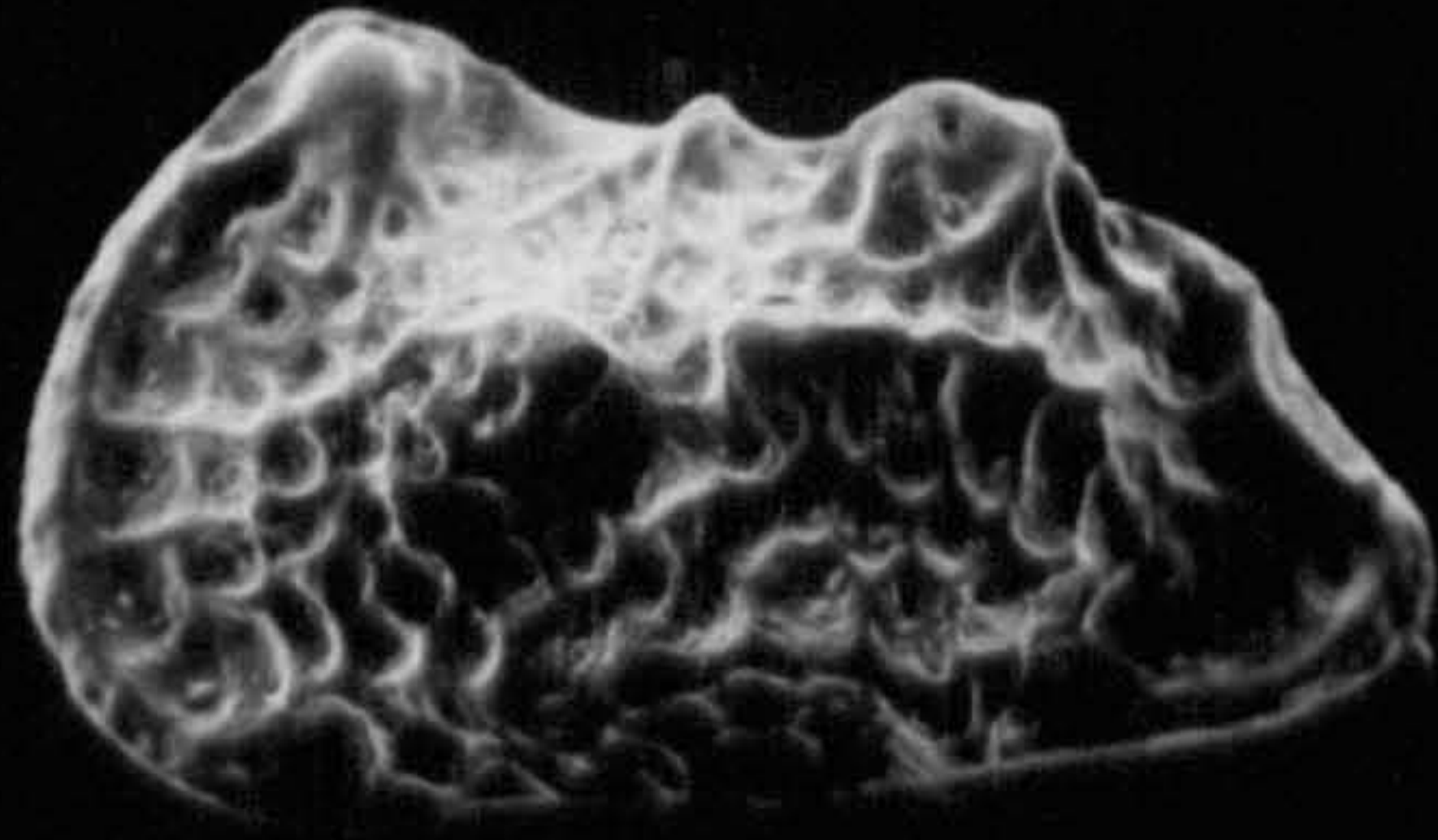
Fig. 3- Female carapace, left valve, external, lateral view, (paratype J.T. 386), stereoscopic paired photographs; South Rumaila Well-104, drilling depth 2712 m; X67.

Fig. 4- Female left valve, internal, lateral view, (paratype J.T. 392), stereoscopic paired photographs, South Rumaila Well-104, drilling depth 2796 m; X67.

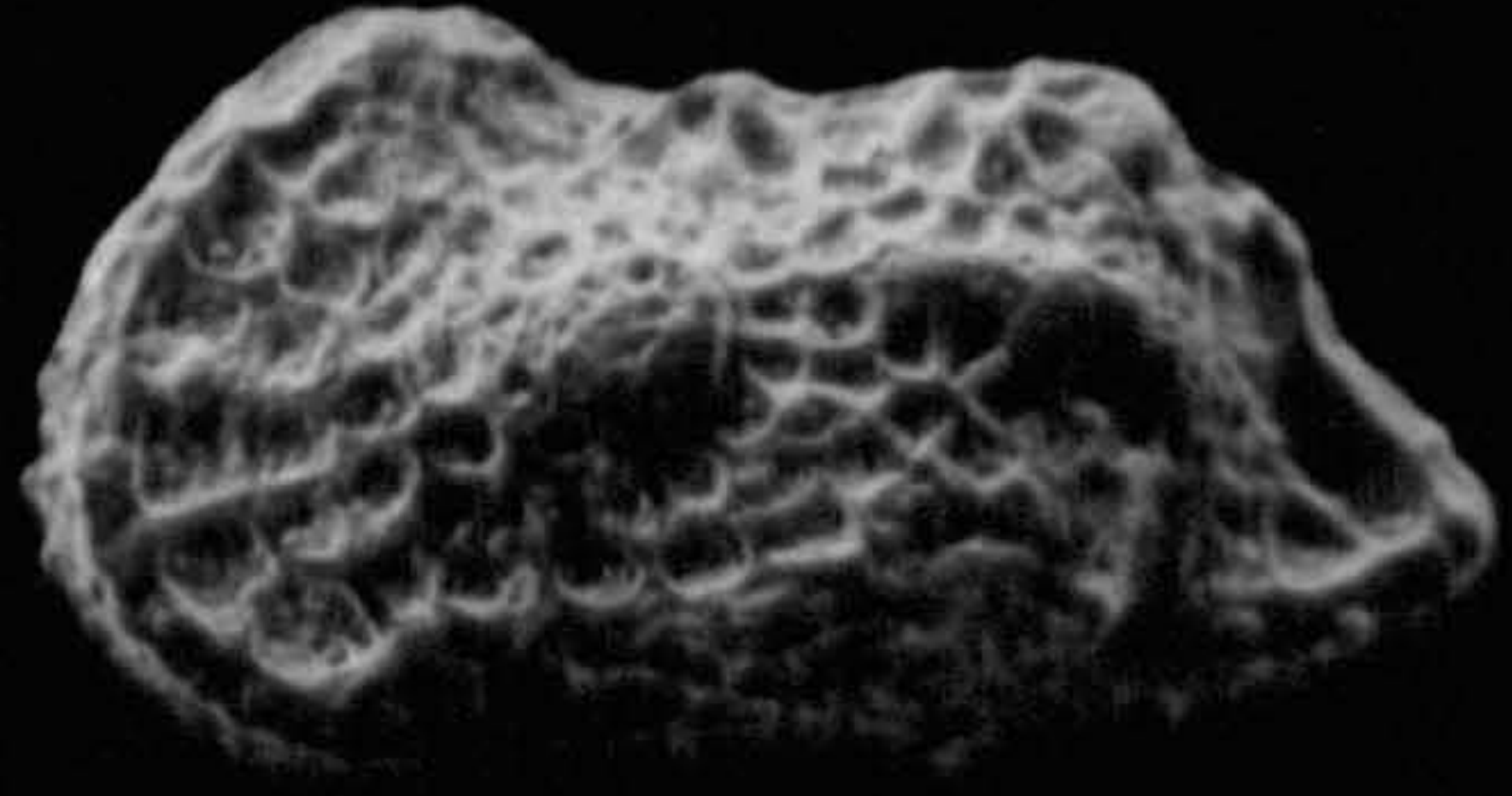
Fig. 5- Female carapace, external, dorsal view, (paratype J.T. 390); South Rumaila Well-104, drilling depth 2674 m; X58.

Fig. 6- Female carapace, external, ventral view, (paratype J.T. 393); Ghalaian Well-1, drilling depth 4325 ft; X57.

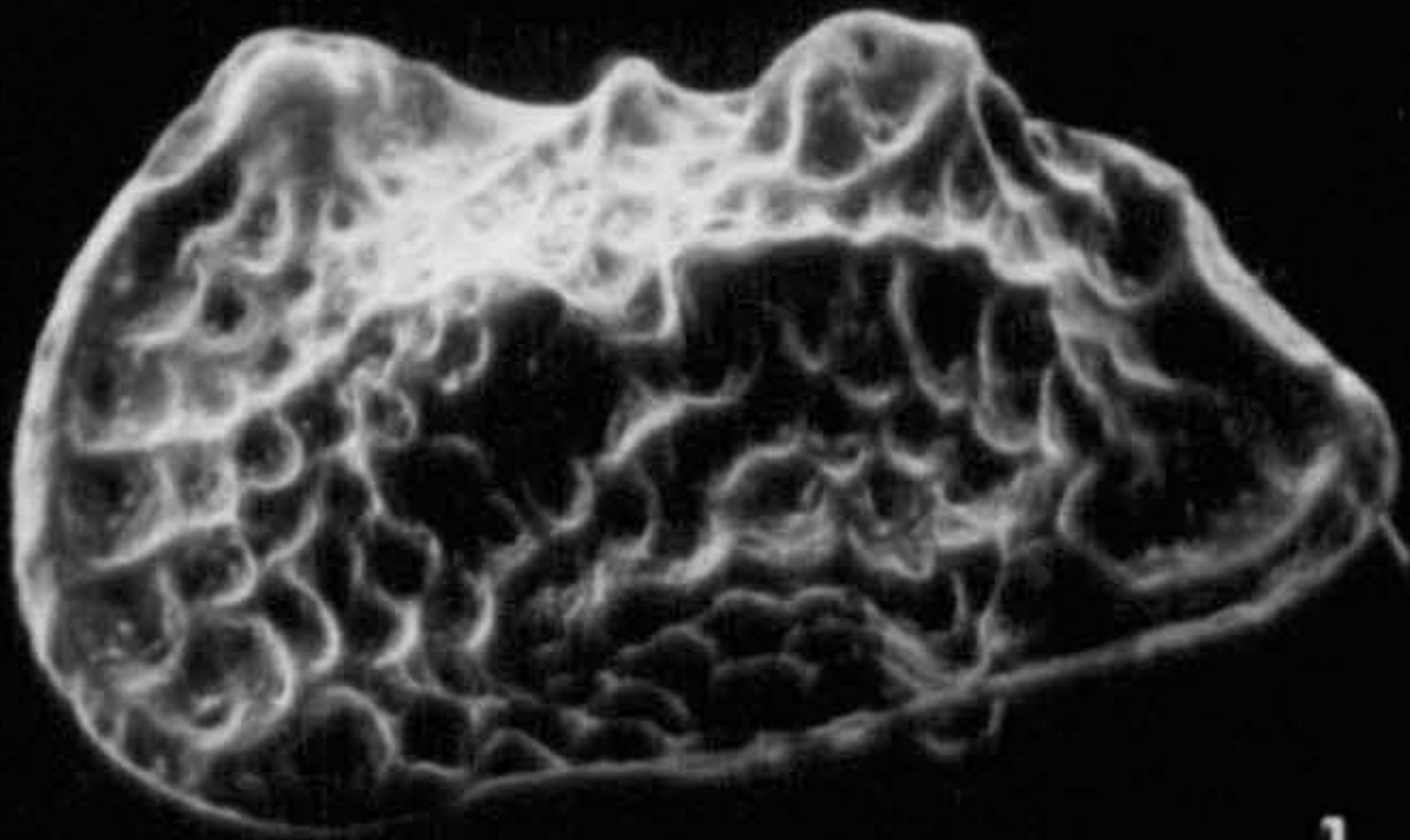
PLATE-76



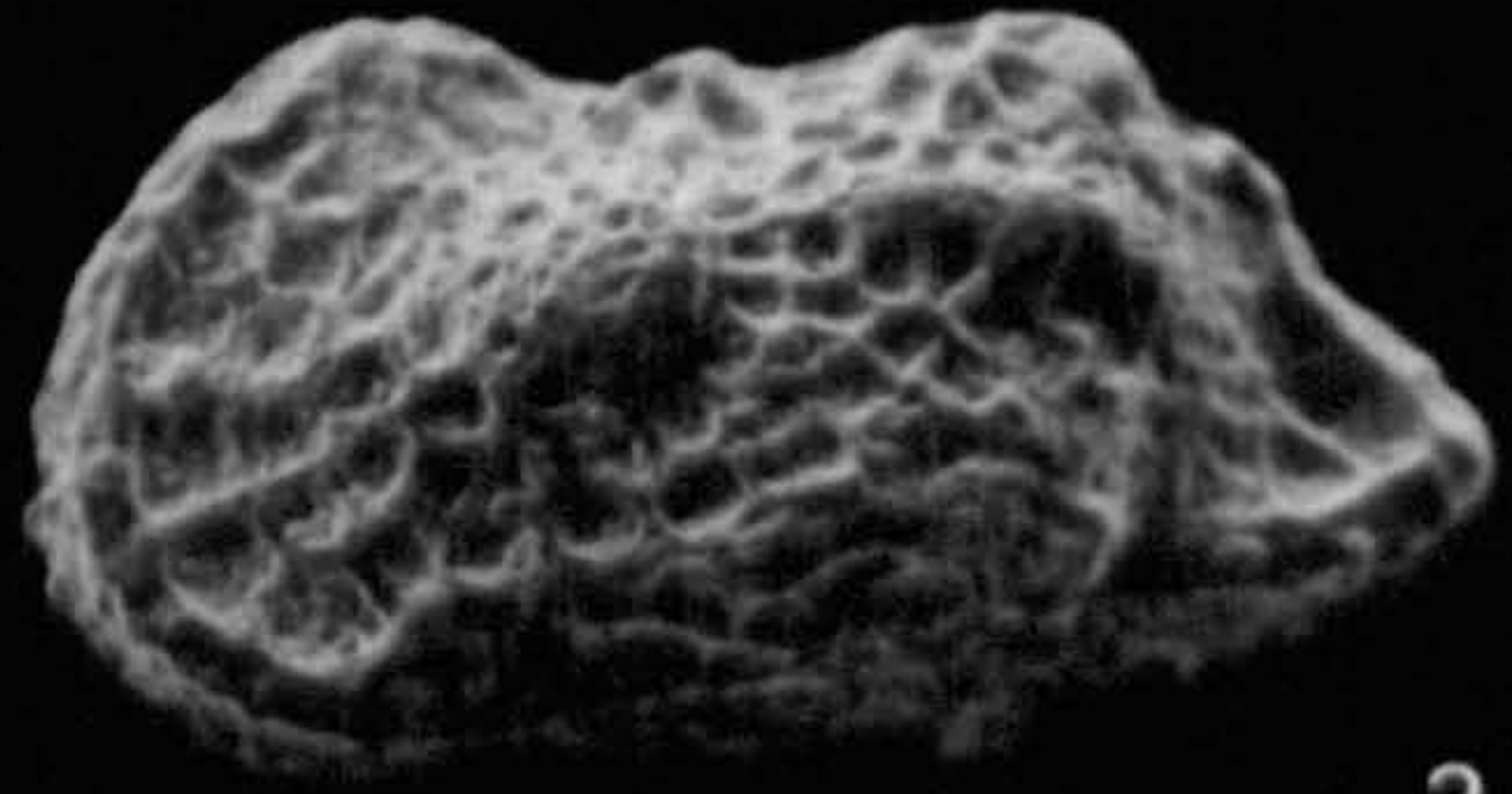
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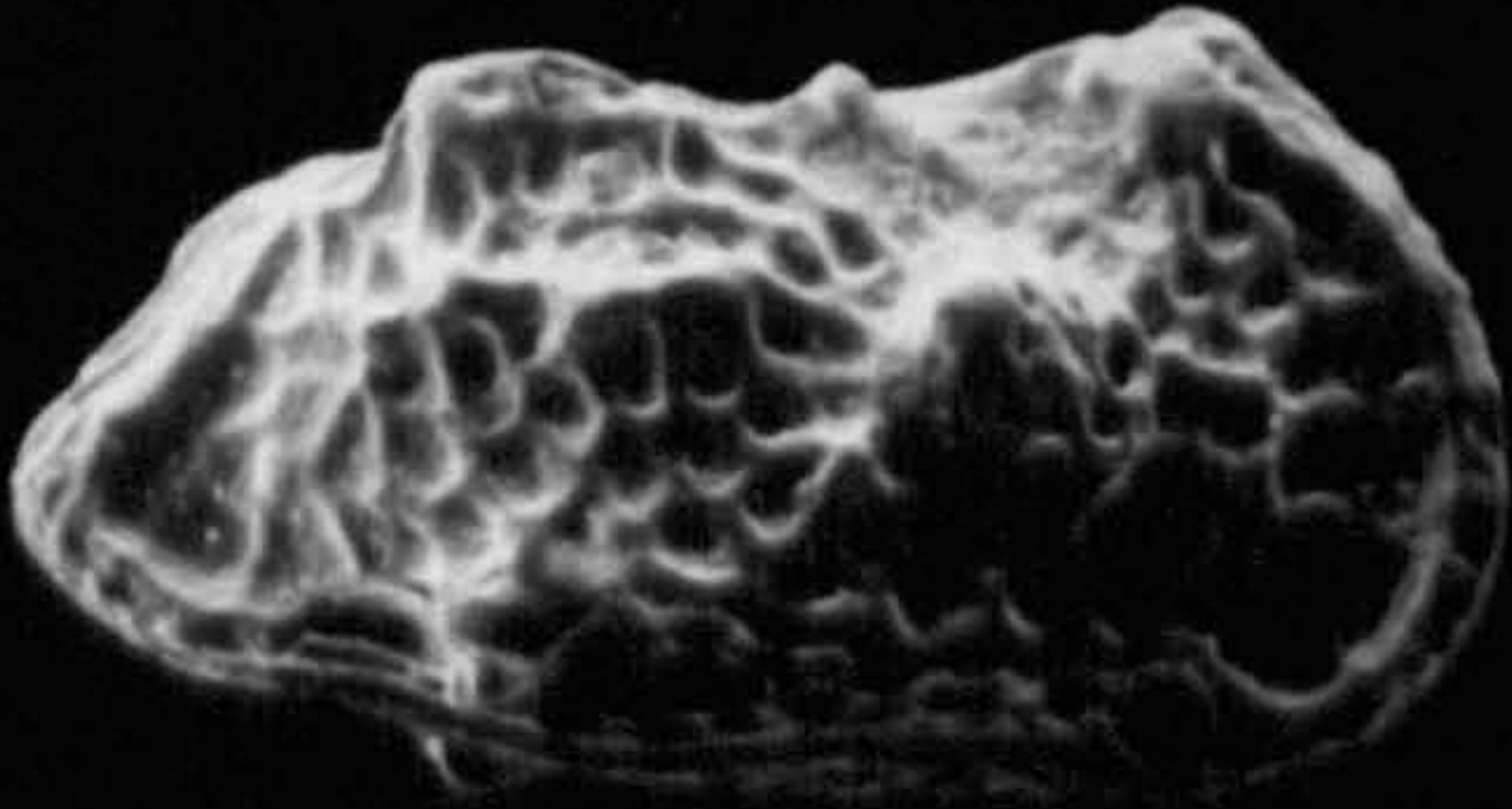
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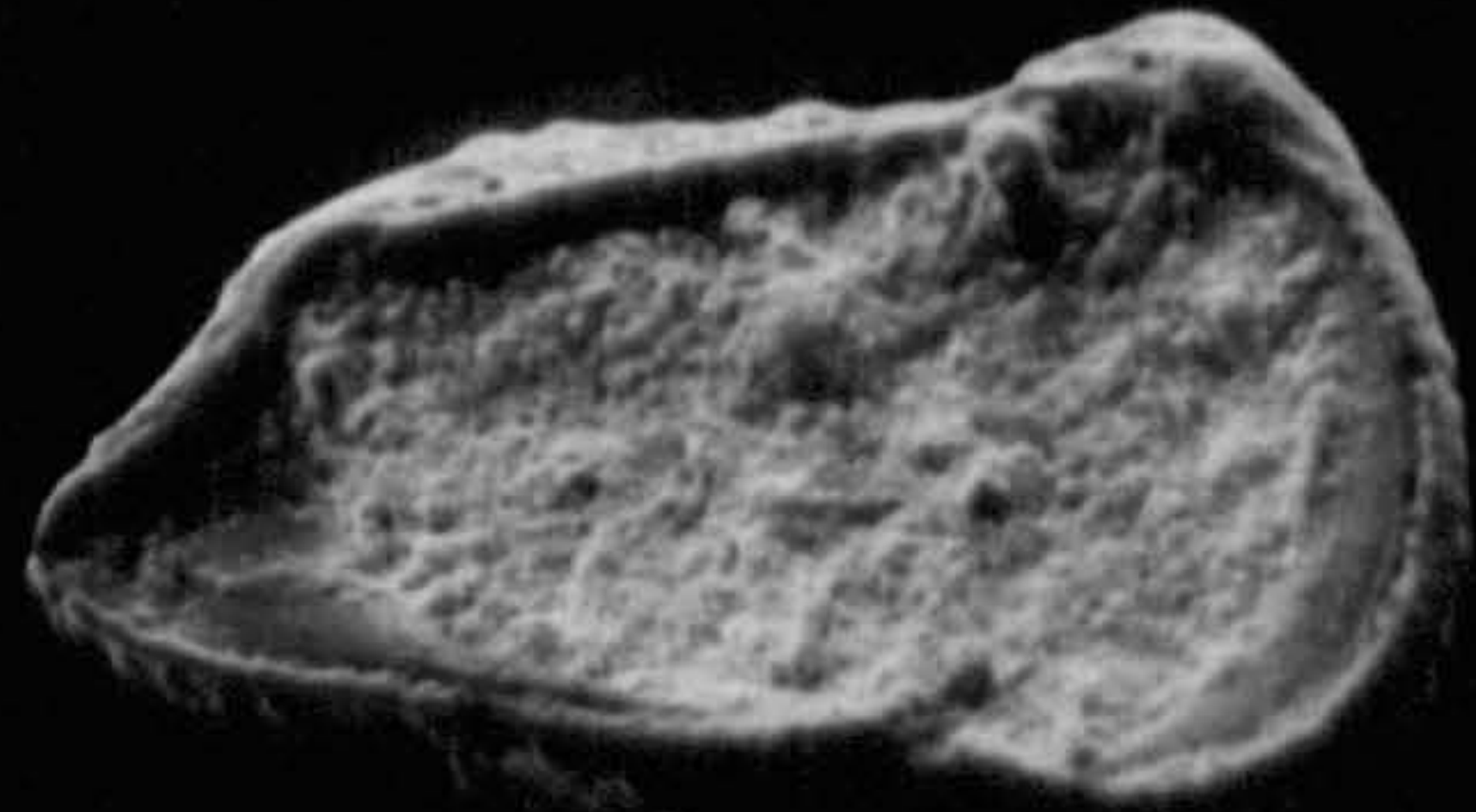
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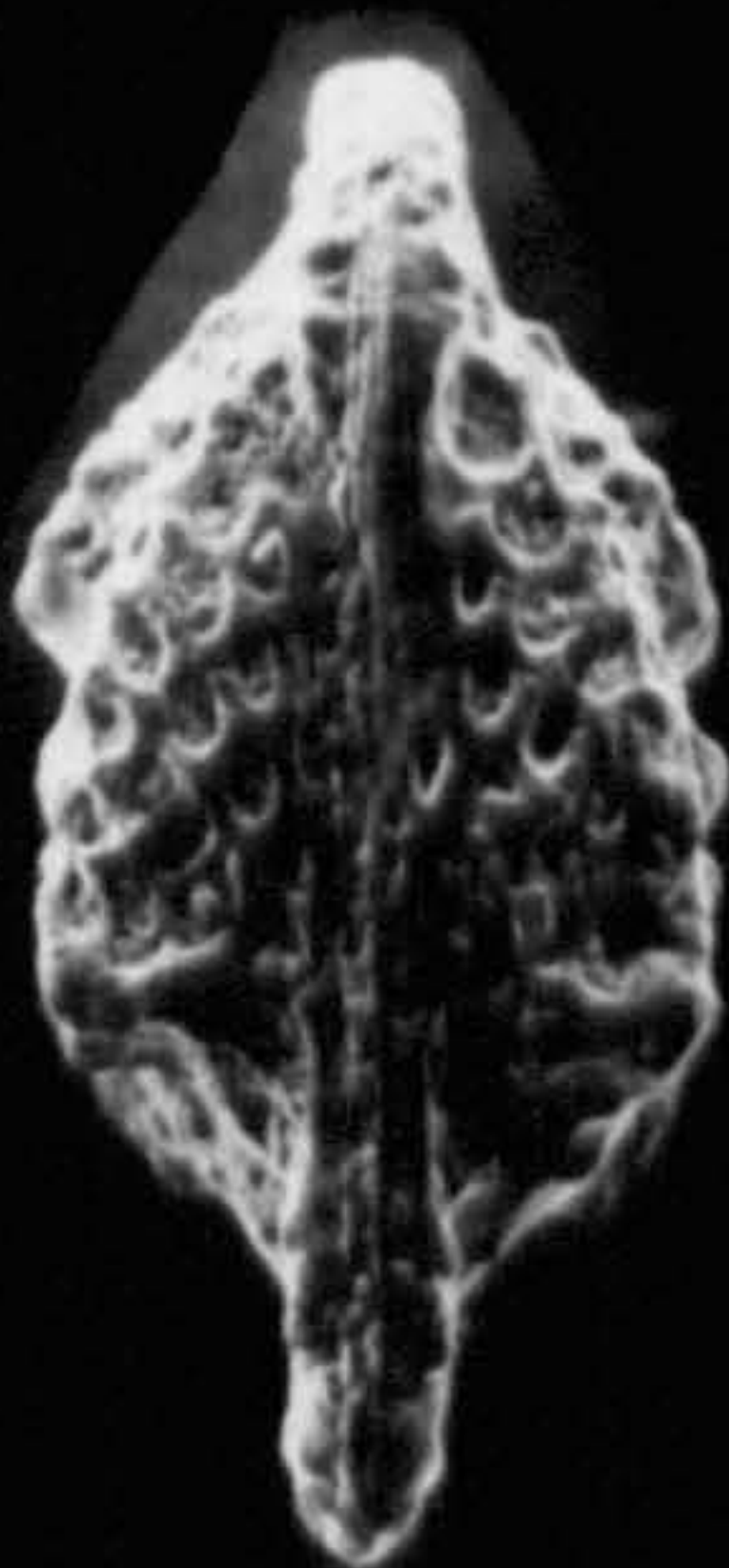
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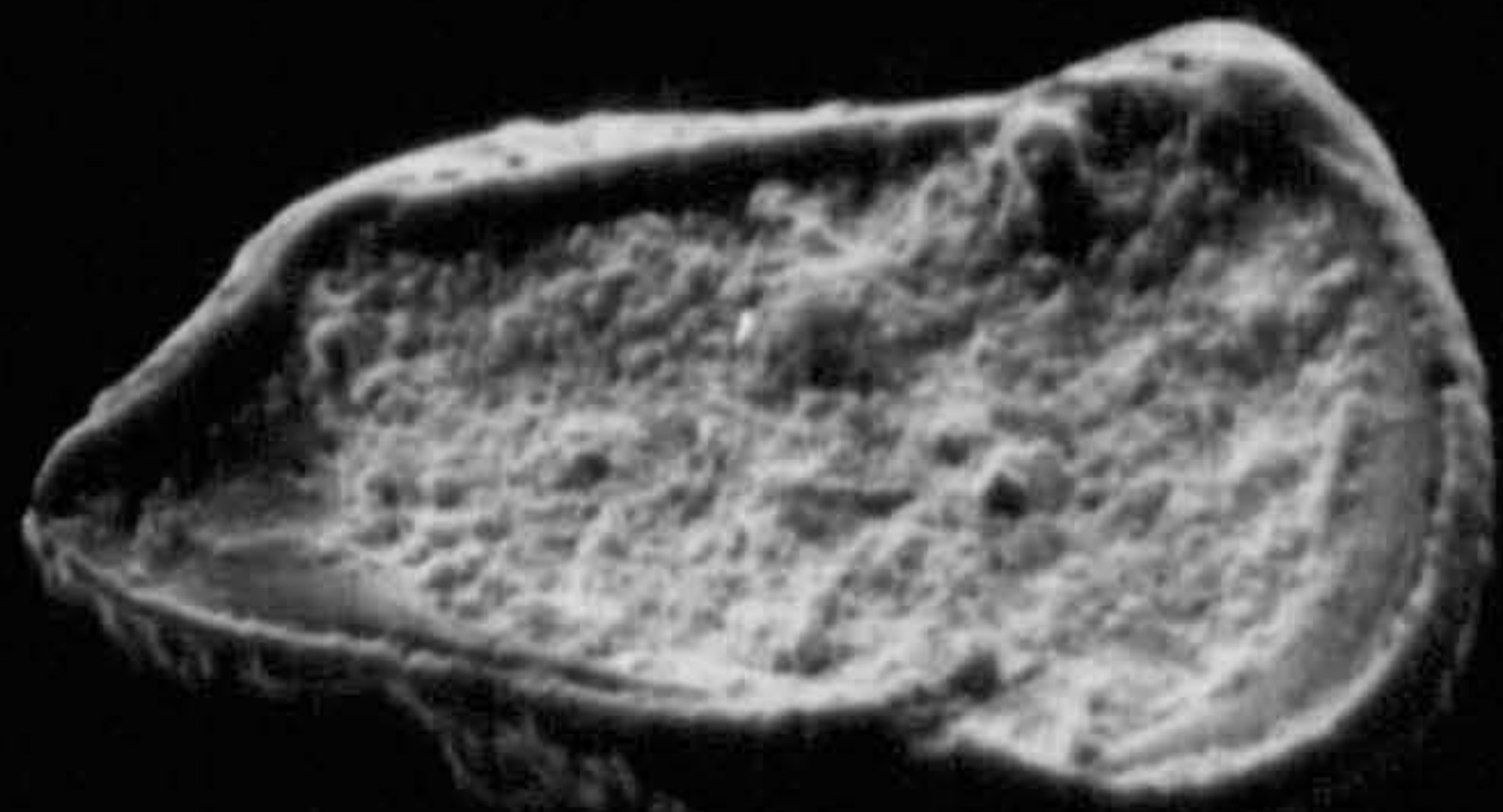
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4

EXPLANATION OF PLATE - 77

Rehacythereis arabica (Al-Furaih, 1983).

All specimens from South Rumaila Well-104.

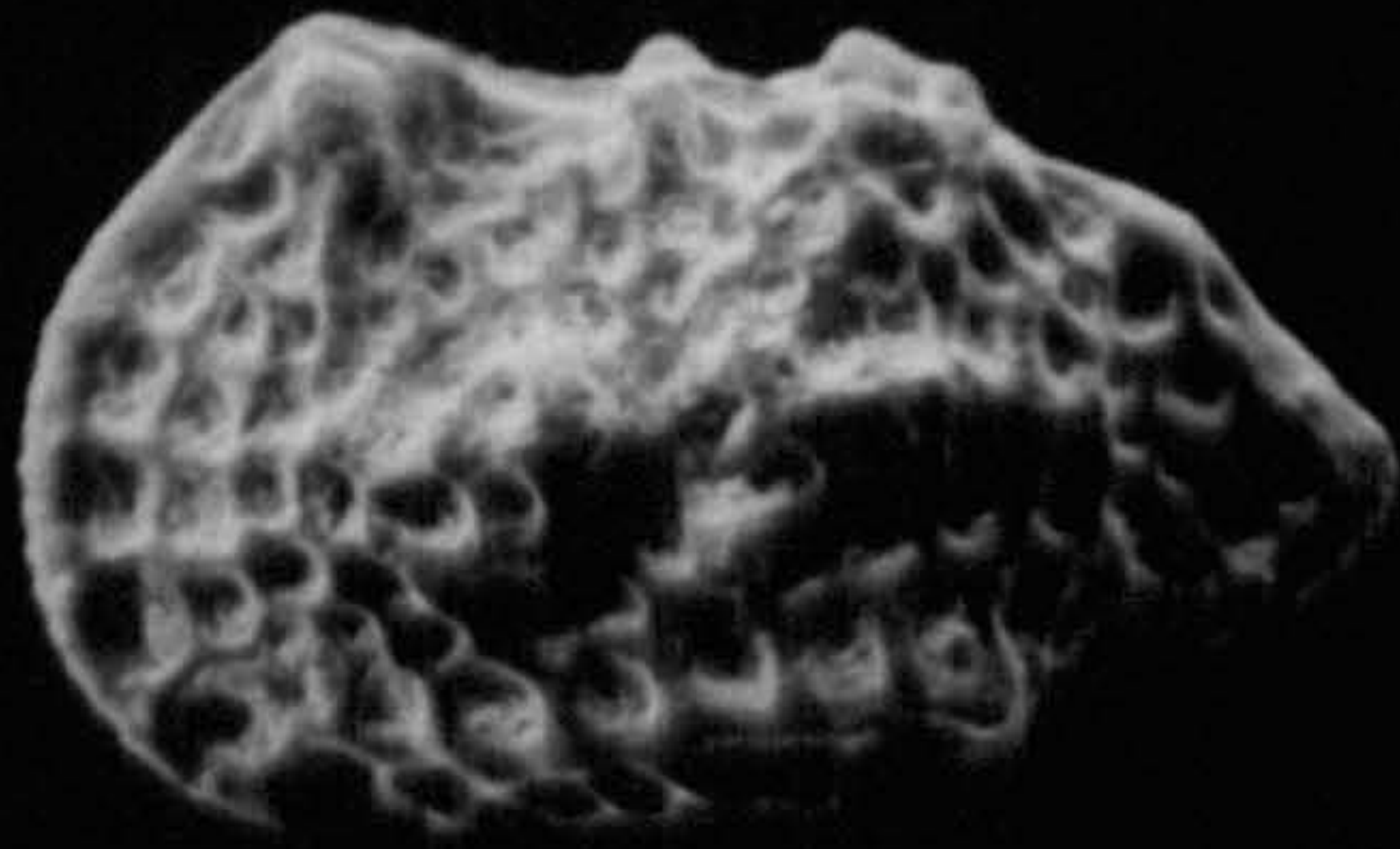
Fig. 1- Female carapace, left valve, external, lateral view, (J.T. 403), stereoscopic paired photographs; drilling depth 2738 m; X79.

Fig. 2- Female carapace, right valve, external, lateral view, (J.T. 399), stereoscopic paired photographs; drilling depth 2664 m; X81.

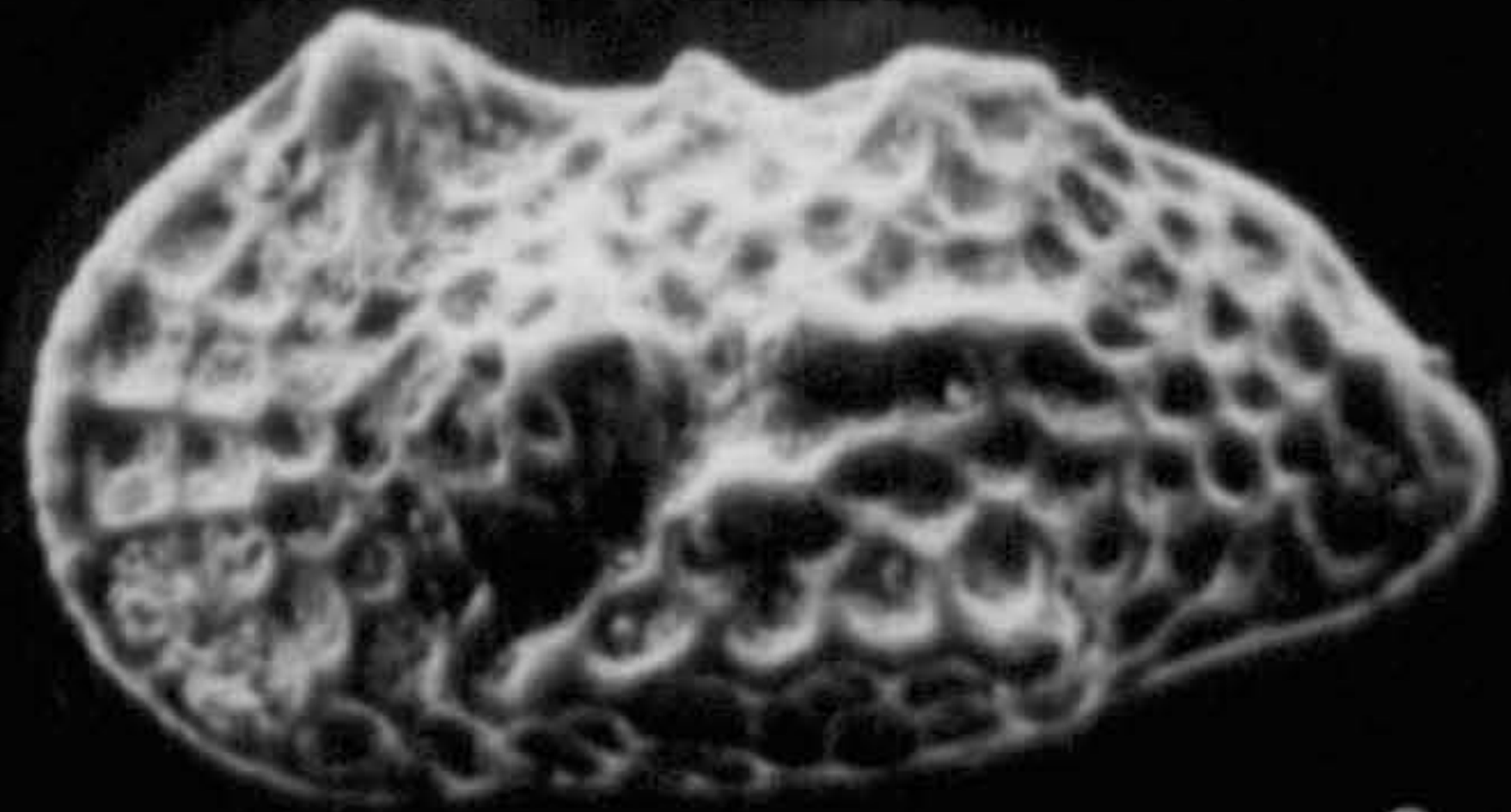
Fig. 3- Male carapace, left valve, external, lateral view, (J.T. 396), stereoscopic paired photographs; drilling depth 2666 m; X71.

Fig. 4- Male carapace, right valve, external, lateral view, (J.T. 398), stereoscopic paired photographs; drilling depth 2664 m; X82.

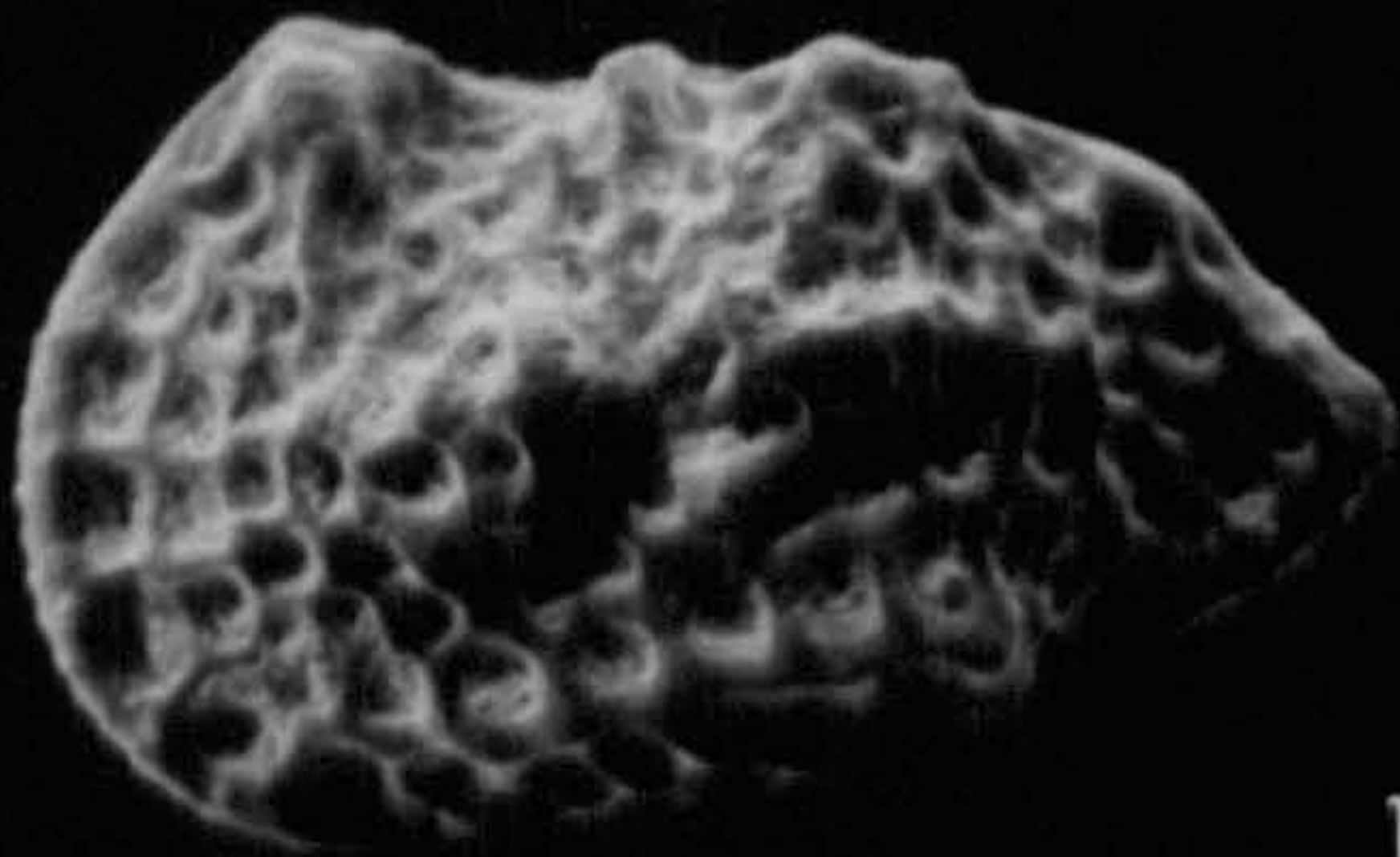
PLATE-77



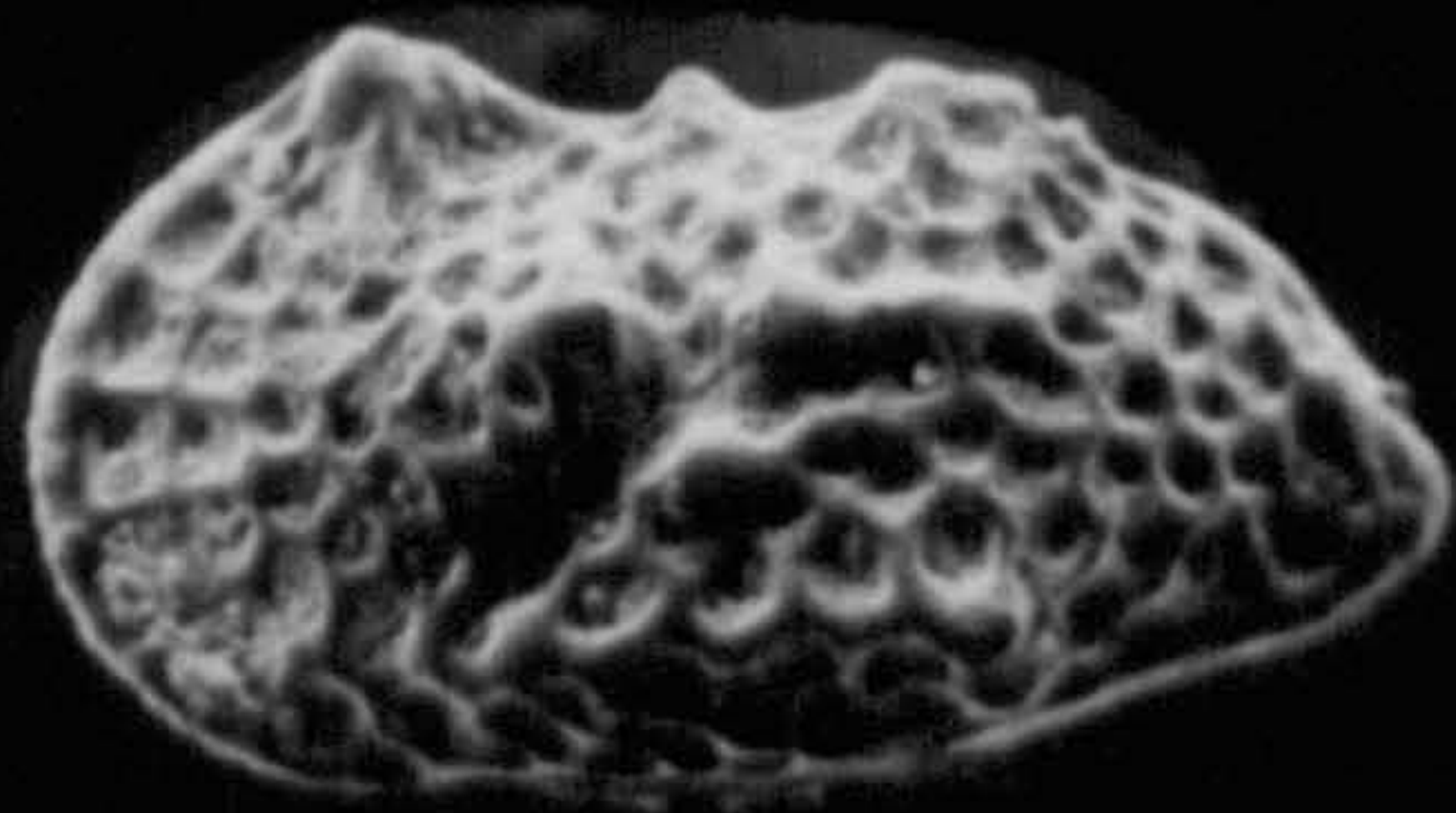
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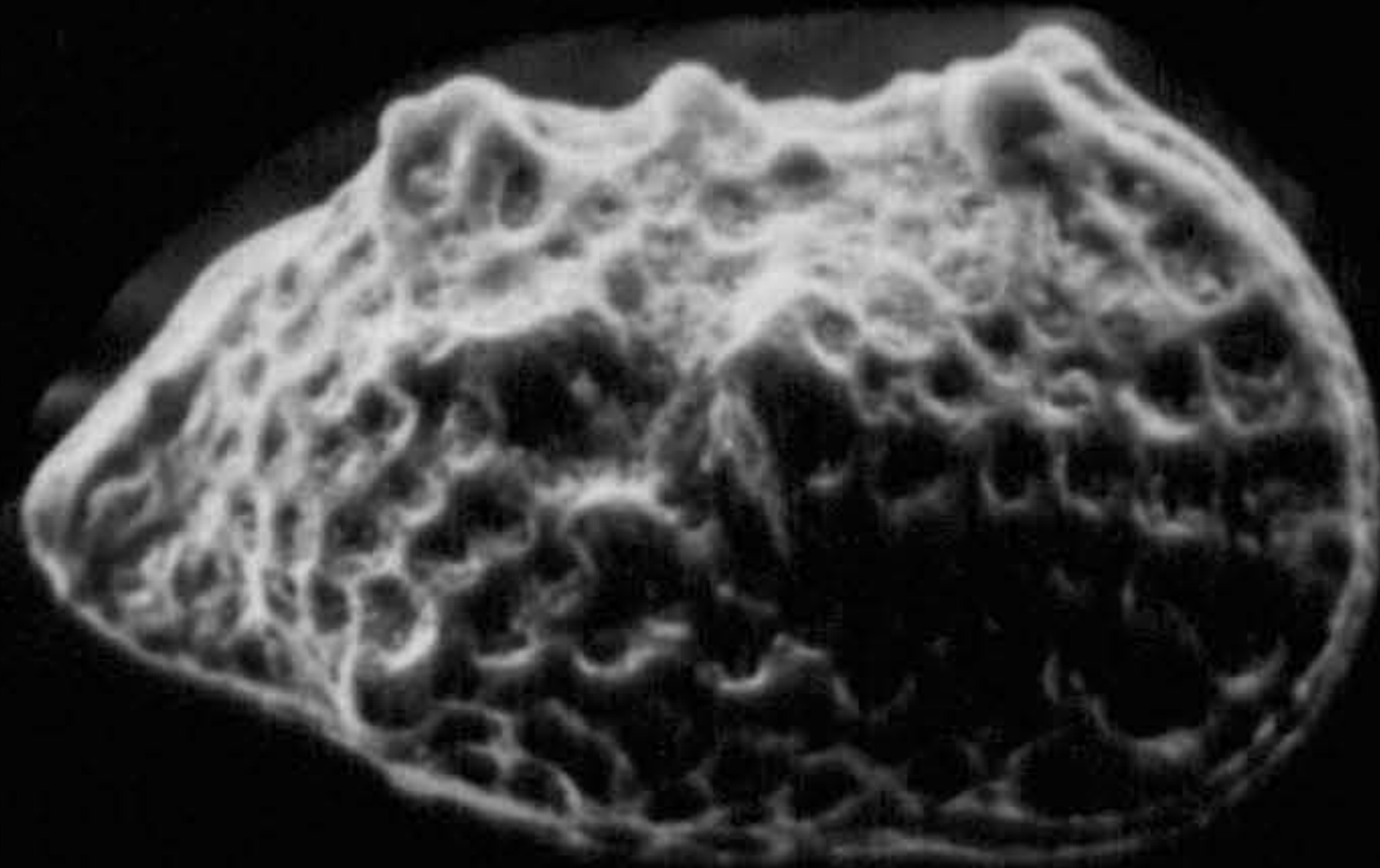
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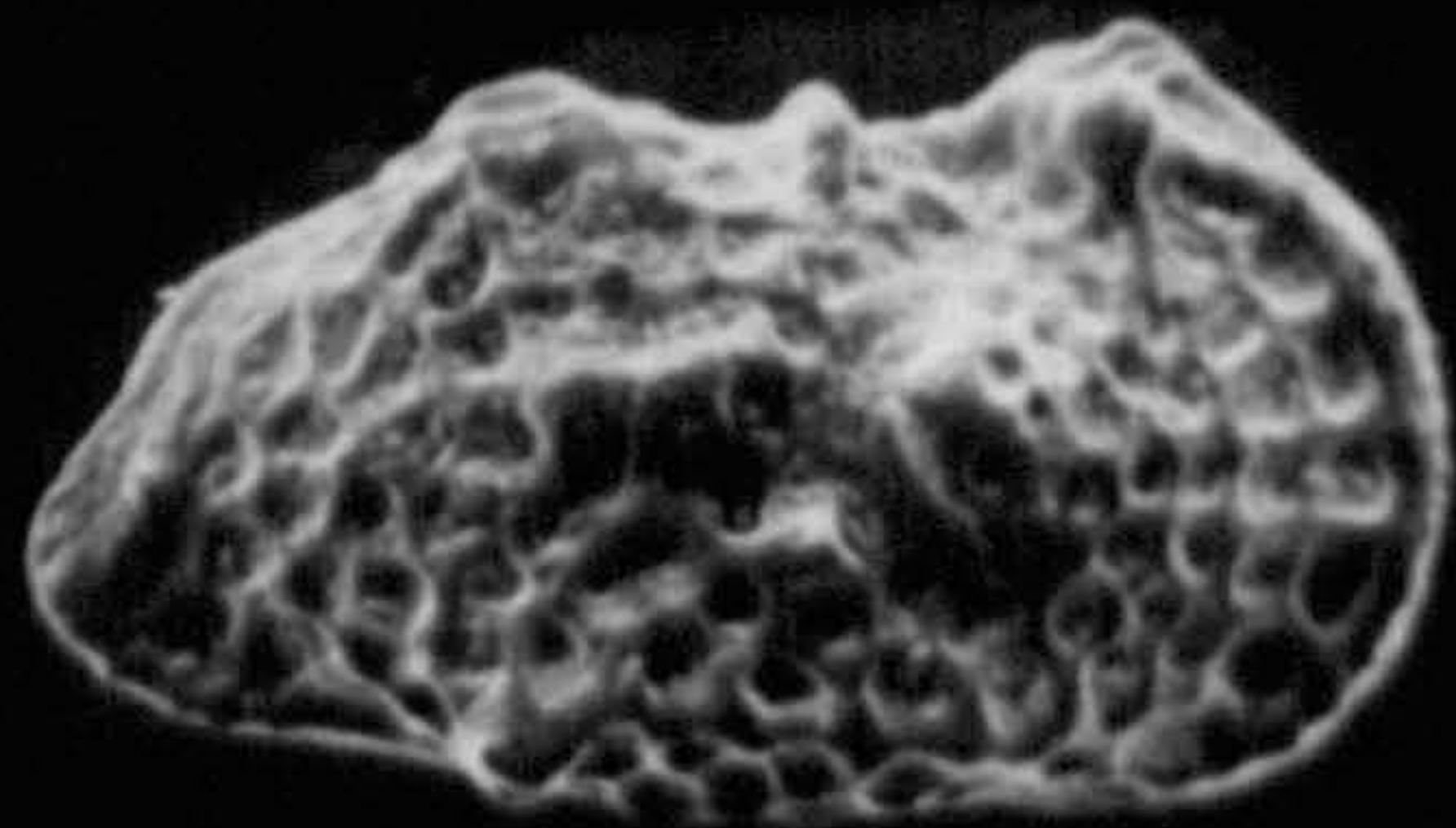
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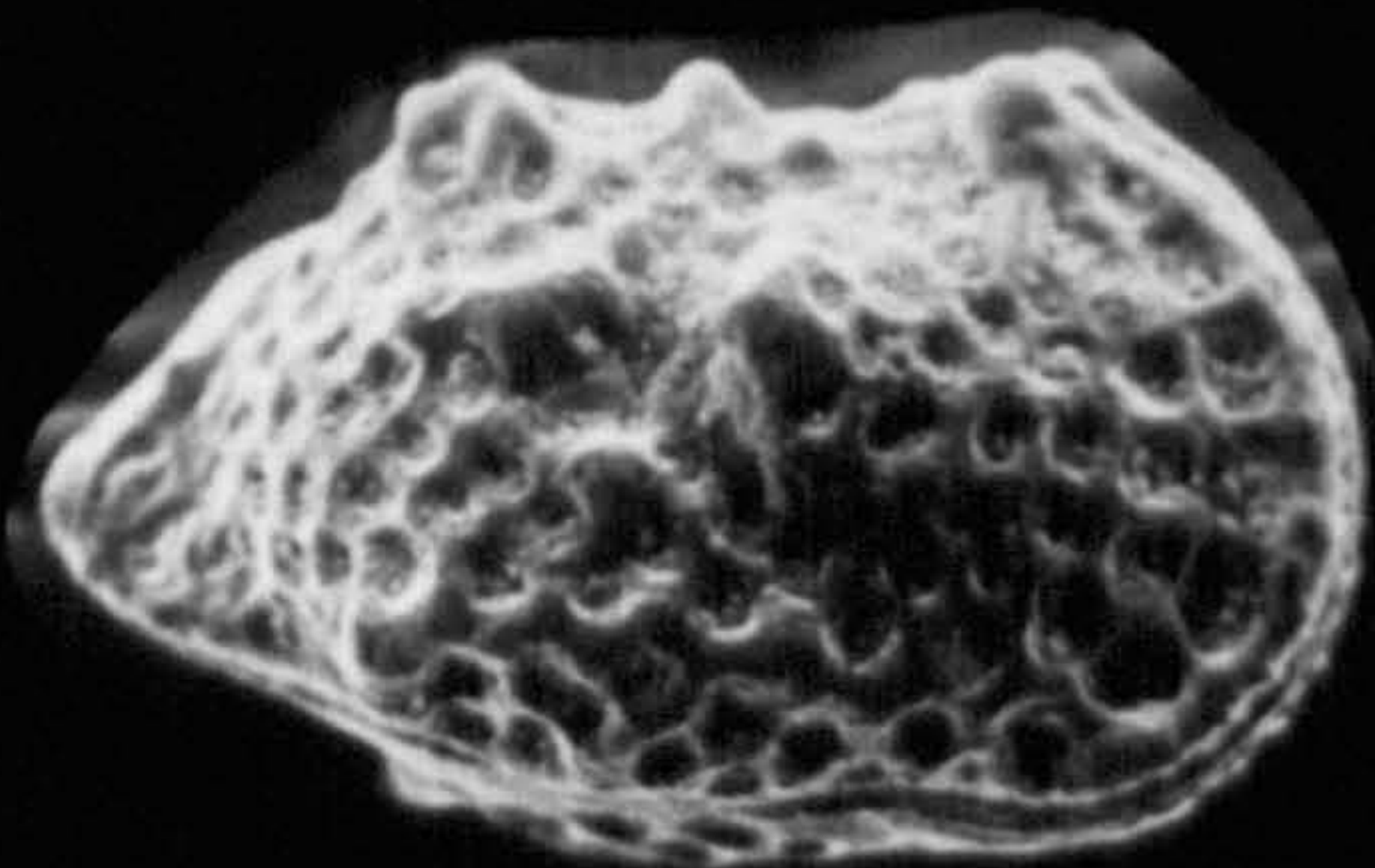
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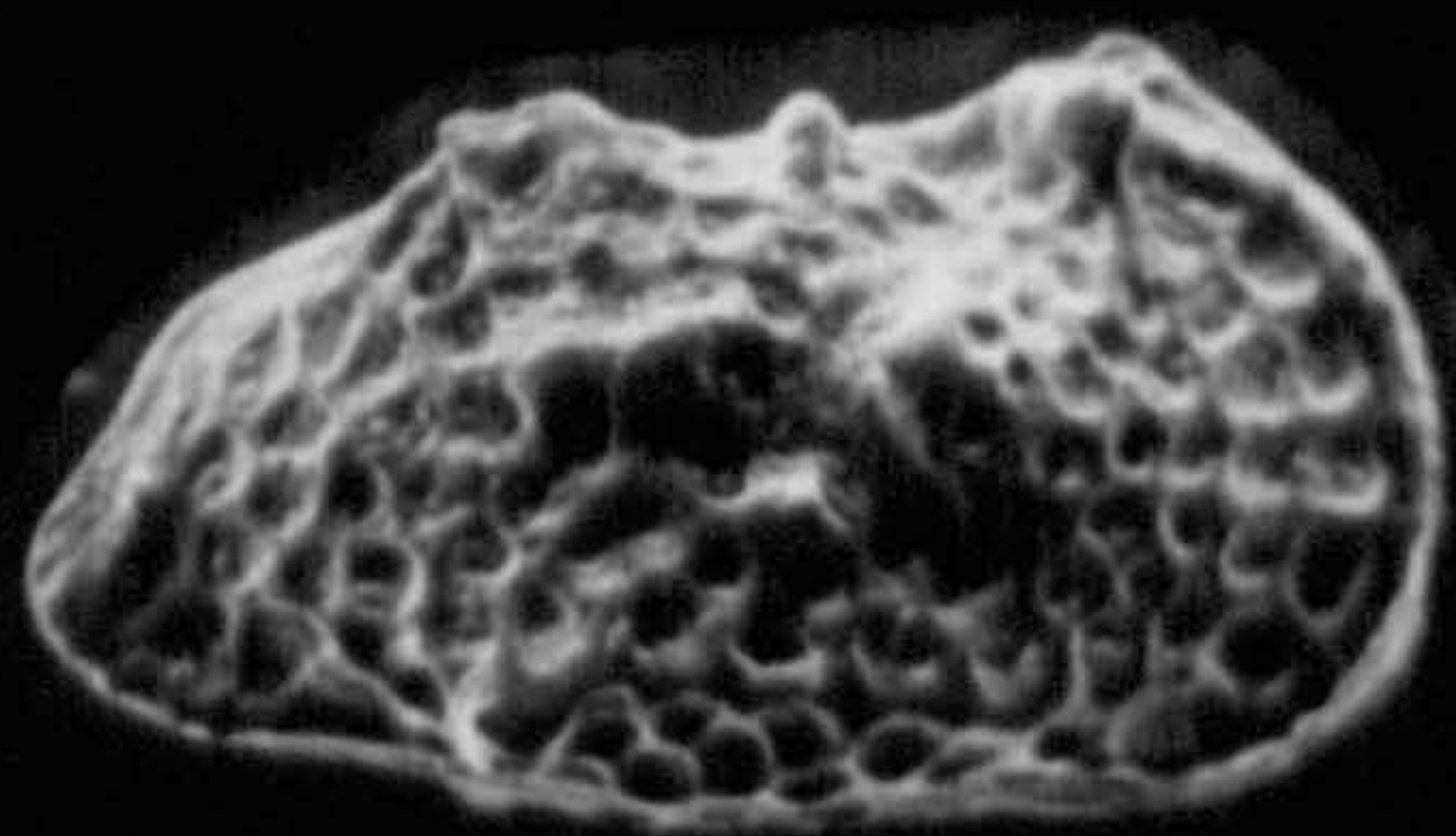
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2



4

EXPLANATION OF PLATE - 78

Rehacythereis arabica (Al-Furaih, 1983).

All specimens from South Rumaila Well-104.

Fig. 1- Female carapace, right valve, external, lateral view, (J.T.408), stereoscopic paired photographs; drilling depth 2664 m; X95.

Fig. 2- Left valve (broken), internal, lateral view, anterior hinge, (J.T.401), stereoscopic paired photographs; drilling depth 2656 m; X107.

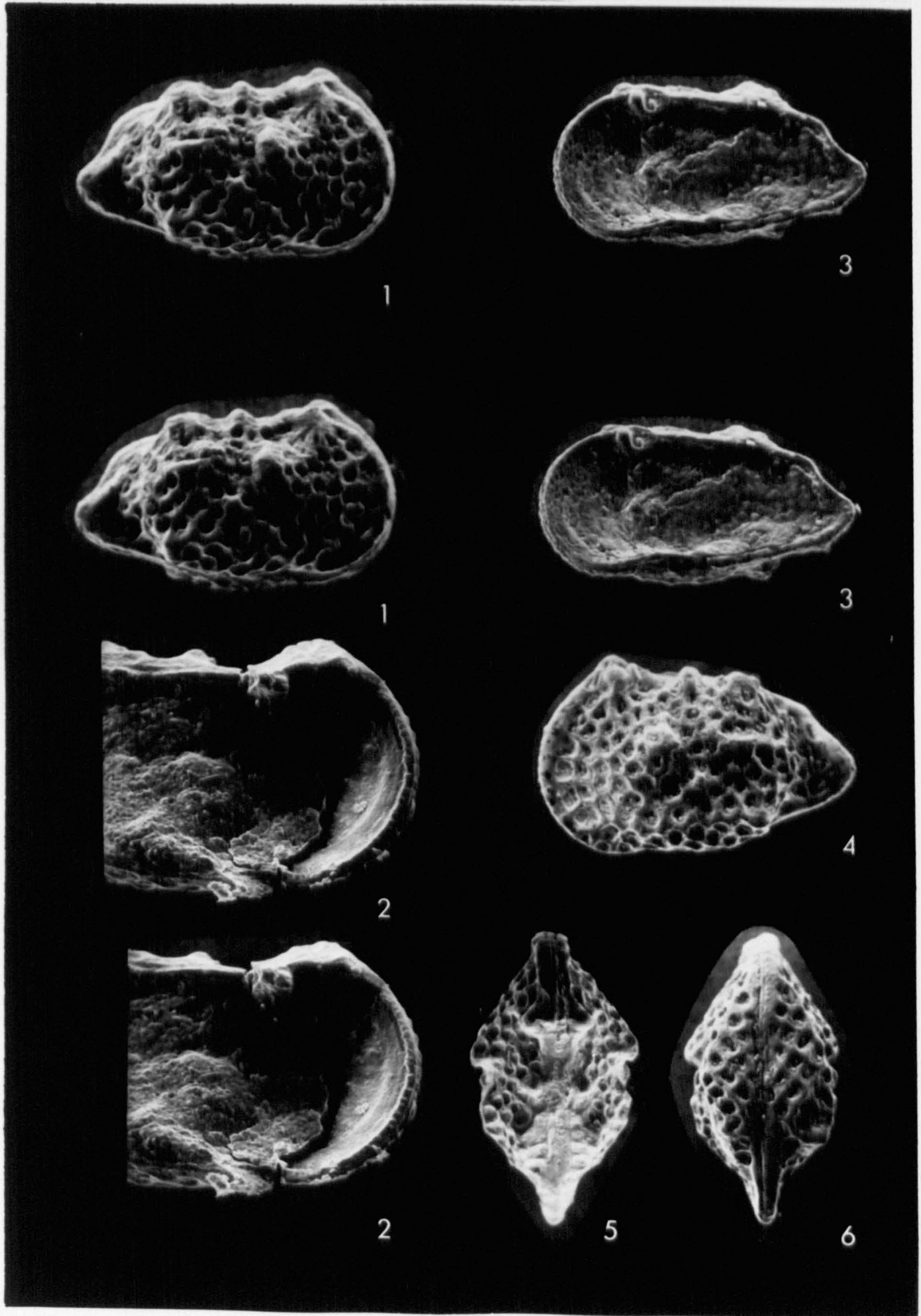
Fig. 3- Male right valve, internal, lateral view, (J.T. 397), stereoscopic paired photographs; drilling depth 2664 m; X79.

Fig. 4- Female carapace, left valve, external, lateral view, (J.T. 400); drilling depth 2664 m; X86.

Fig. 5- Female carapace, external, dorsal view, (J.T. 405); drilling depth 2654 m; X75.

Fig. 6- Female carapace, external, ventral view, (J.T. 406); drilling depth 2656 m; X83.

PLATE-78



EXPLANATION OF PLATE - 79

Spinoleberis ibnalfakihi sp. nov.

All specimens from South Rumaila Well-104.

Fig. 1- Female? carapace, right valve, external, lateral view, (holotype J.T. 412), stereoscopic paired photographs; drilling depth 2556 m; X79.

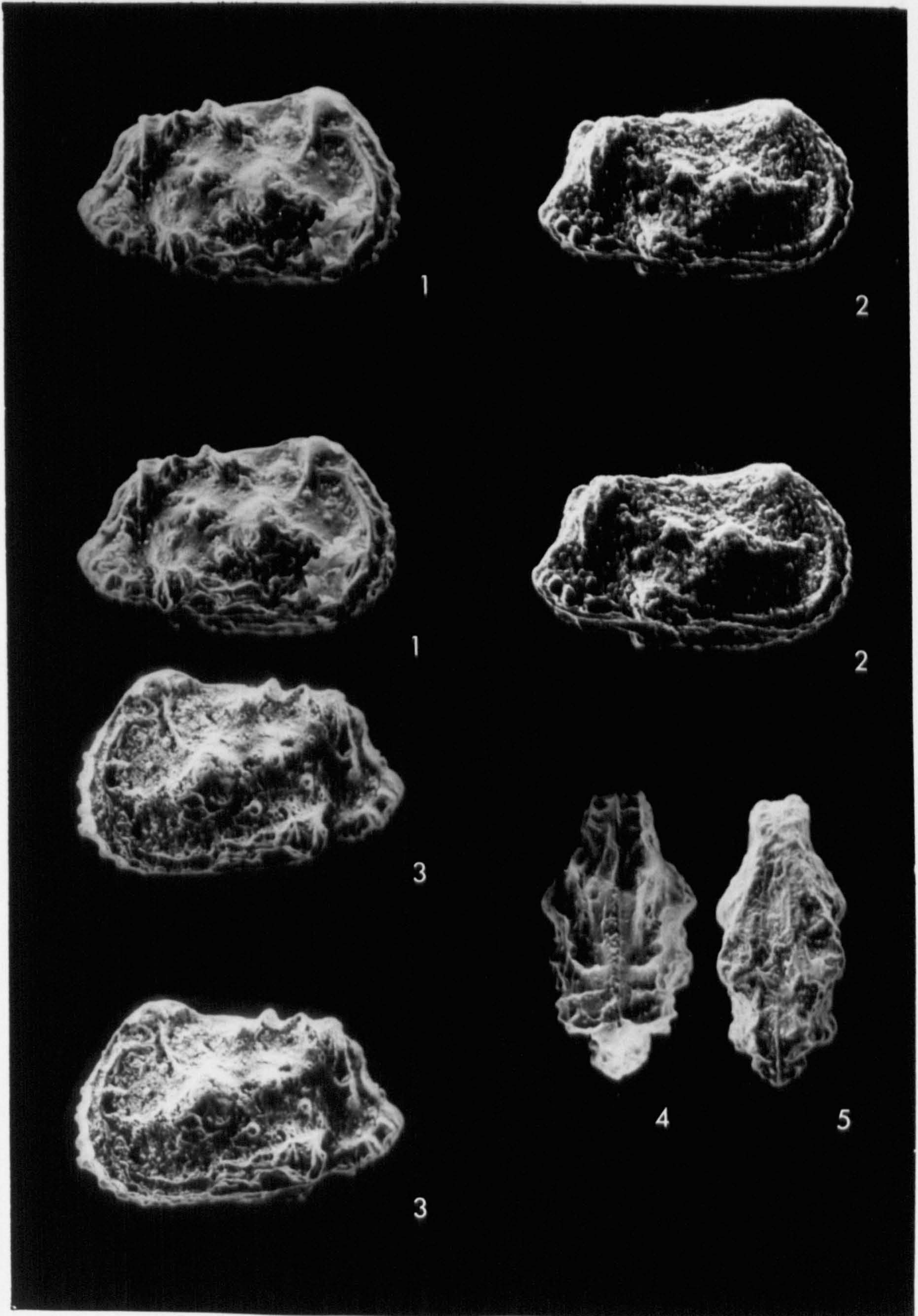
Fig. 2- Male? carapace, right valve, external, lateral view, (paratype J.T. 413), stereoscopic paired photographs; drilling depth 2546 m; X77.

Fig. 3- Female? carapace, left valve, external, lateral view, (holotype J.T. 412), stereoscopic paired photographs; drilling depth 2556 m; X81.

Fig. 4- Female? carapace, external, dorsal view, (holotype J.T. 412); drilling depth 2556 m; X70.

Fig. 5- Male? carapace, external, ventral view, (paratype J.T. 413); drilling depth 2546 m; X68.

PLATE-79



EXPLANATION OF PLATE - 80

Veenia (Veenia) ibnhazmi sp. nov.

All specimens from South Rumaila Well-104.

Fig. 1- Female carapace, left valve, external, lateral view, (holotype J.T. 420), stereoscopic paired photographs; drilling depth 2342 m; X94.

Fig. 2- Male carapace, left valve, external, lateral view, (paratype J.T. 416), stereoscopic paired photographs; drilling depth 2342 m; X82.

Fig. 3- Male carapace, right valve, external, lateral view, (paratype J.T. 417), stereoscopic paired photographs; drilling depth 2404 m; X79.

Fig. 4- Male carapace, right valve, external, lateral view (paratype J.T. 415), stereoscopic paired photographs; drilling depth 2340 m; X79.

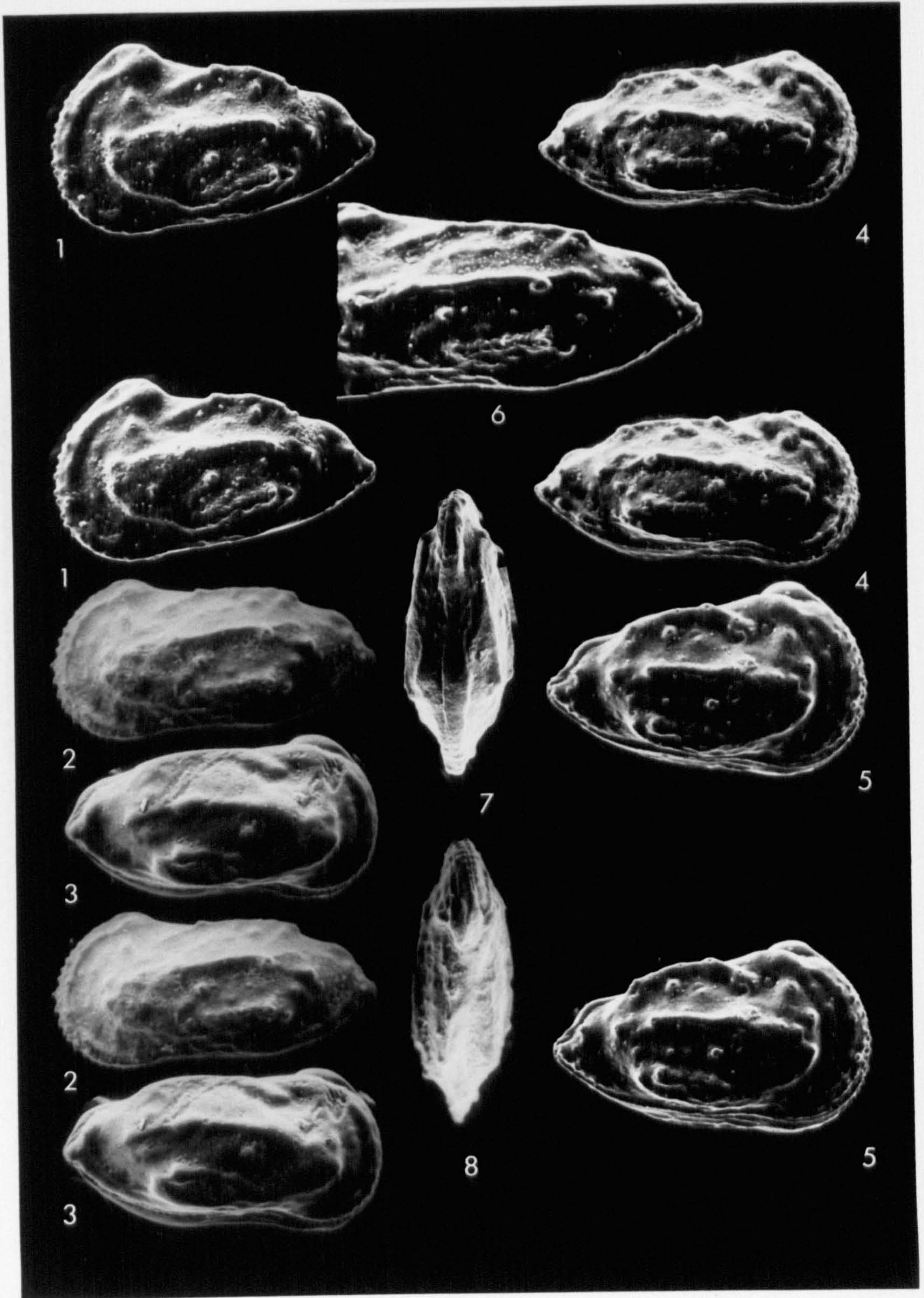
Fig. 5- Female carapace, right valve, external, lateral view, (paratype J.T. 419), stereoscopic paired photographs; drilling depth 2374 m; X94.

Fig. 6- Male carapace, left valve, external, postero-lateral view (paratype J.T. 416); drilling depth 2342 m; X91.

Fig. 7- Male carapace, external, ventral view, (paratype J.T. 414); drilling depth 2422 m; X71.

Fig. 8- Male carapace, external, dorsal view, (paratype J.T. 418); drilling depth 2344 m; X70.

PLATE-80



EXPLANATION OF PLATE - 81

Veenia (Nigeria) shattalarabia sp. nov.

All specimens from South Rumaila Well- 104.

Fig. 1- Female carapace, left valve, external, lateral view, (holotype J.T. 423), stereoscopic paired photographs; drilling depth 2736 m; X88.

Fig. 2- Male? carapace, left valve, external, lateral view, (paratype J.T. 432), stereoscopic paired photographs; drilling depth 2692 m; X92.

Fig. 3- Female carapace, left valve, external, lateral view, (paratype J.T. 421), stereoscopic paired photographs; drilling depth 2658 m; X96.

Fig. 4- Female carapace, left valve, external, lateral view, (paratype J.T. 429); drilling depth 2736 m; X86.

Fig. 5- Male? carapace, left valve, external, lateral view, (paratype J.T. 431); drilling depth 2658 m; X102.

Fig. 6- Female carapace, external, dorsal view, (paratype J.T. 426); drilling depth 2656 m; X92.

Fig. 7- Female carapace, external, ventral view, (paratype J.T. 424); drilling depth 2644 m; X88.

PLATE-81



EXPLANATION OF PLATE - 82

Veenia (Nigeria) shattalarabia sp. nov.

All specimens from South Rumaila Well-104.

Fig. 1- Female carapace, right valve, external, lateral view, (paratype J.T. 429), stereoscopic paired photographs; drilling depth 2736 m; X87.

Fig. 2- Male? carapace, right valve, external, lateral view, (paratype J.T. 432), stereoscopic paired photographs; drilling depth 2692 m; X93.

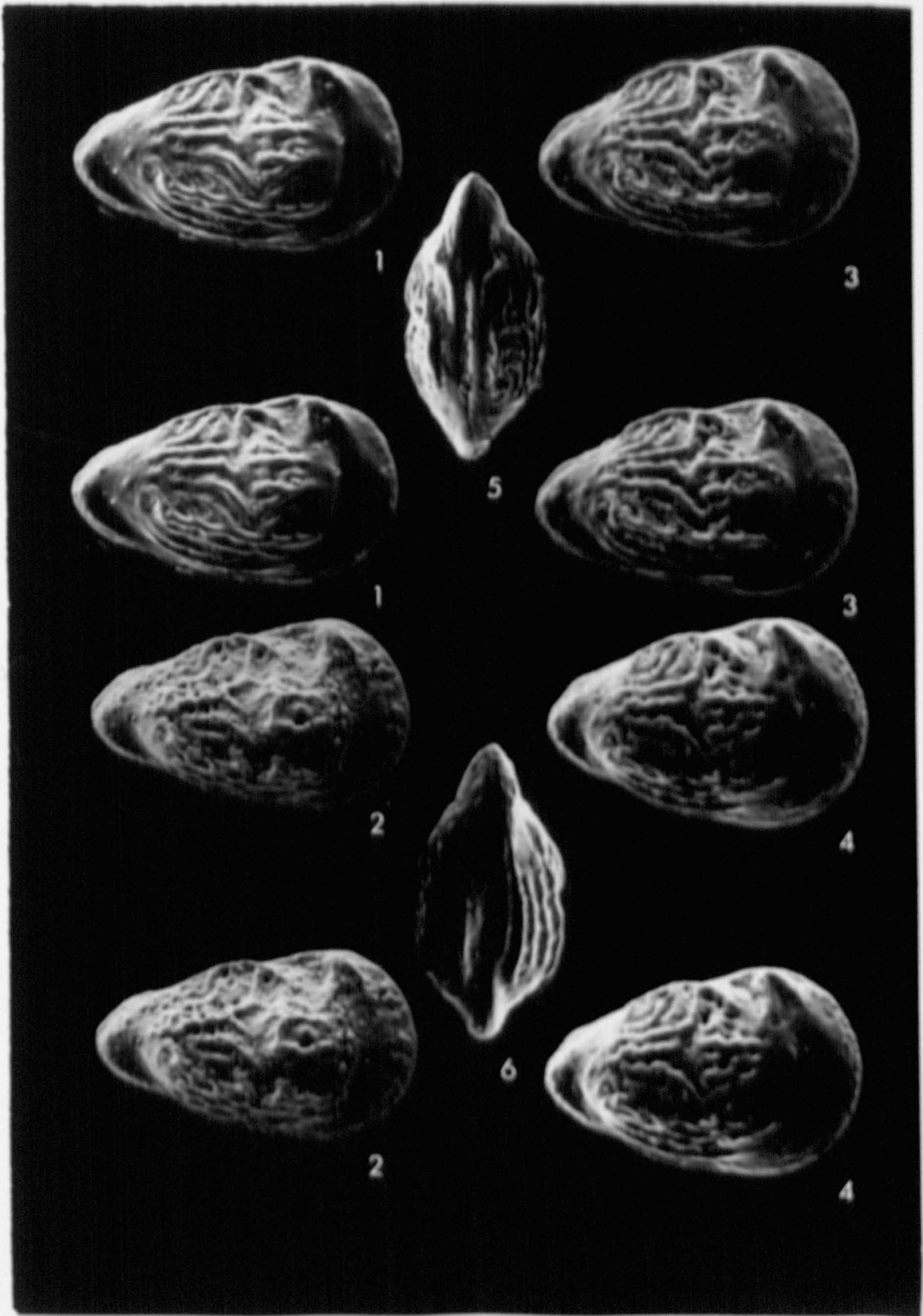
Fig. 3- Female carapace, right valve, external, lateral view, (holotype J.T. 423), stereoscopic paired photographs; drilling depth 2736 m; X89.

Fig. 4- Female carapace, right valve, external view, (paratype J.T. 421), stereoscopic paired photographs; drilling depth 2658 m; X96.

Fig. 5- Female carapace, external, dorsal view, (paratype J.T. 425); drilling depth 2738 m; X83.

Fig. 6- Female carapace, external, ventral view, (paratype J.T. 424); drilling depth 2644 m; X88.

PLATE-82



EXPLANATION OF PLATE - 83

Veeniacythereis ibnalhaithami sp. nov.

Fig. 1- Female carapace, right valve, external, lateral view, (holotype J.T. 441), stereoscopic paired photographs; South Rumaila Well-104, drilling depth 2416 m; X79.

Fig. 2- Male carapace, right valve, external, lateral view, (paratype J.T. 434), stereoscopic paired photographs; Kifl Well-2, drilling depth 4365 ft; X75.

Fig. 3- Female left valve, internal, lateral view, (paratype J.T. 443); South Rumaila Well-104, drilling depth 2334 m; X78.

Fig. 4- Female carapace, right valve, external, lateral view, (paratype J.T. 440), stereoscopic paired photographs; South Rumaila Well-104, drilling depth 2352 m; X80.

Fig. 5- Male carapace, left valve, external, lateral view, (paratype J.T. 433), stereoscopic paired photographs; Ghalaisan Well-1, drilling depth 3725 ft; X71.

Fig. 6- Female right valve, internal, lateral view, (paratype J.T. 437); South Rumaila Well-104, drilling depth 2416 m; X83.

Fig. 7- Female carapace, external, dorsal view, (paratype J.T. 439); South Rumaila Well-104, drilling depth 2380; X73.

Fig. 8- Female carapace, external, ventral view, (paratype J.T. 445); East Baghdad Well-3, drilling depth 2290 m; X82.

PLATE-83



EXPLANATION OF PLATE - 84

Veeniacythereis ibnalhaithami sp. nov.

Fig. 1- Female carapace, left valve, external, lateral view, (paratype J.T. 442), stereoscopic paired photographs; Ghalaisan Well-1, drilling depth 3795 ft; X82.

Fig. 2- Right valve (broken), internal view, anterior hinge details, (paratype J.T. 449), stereoscopic paired photographs; Kifl Well-2, drilling depth 4380 ft; X92.

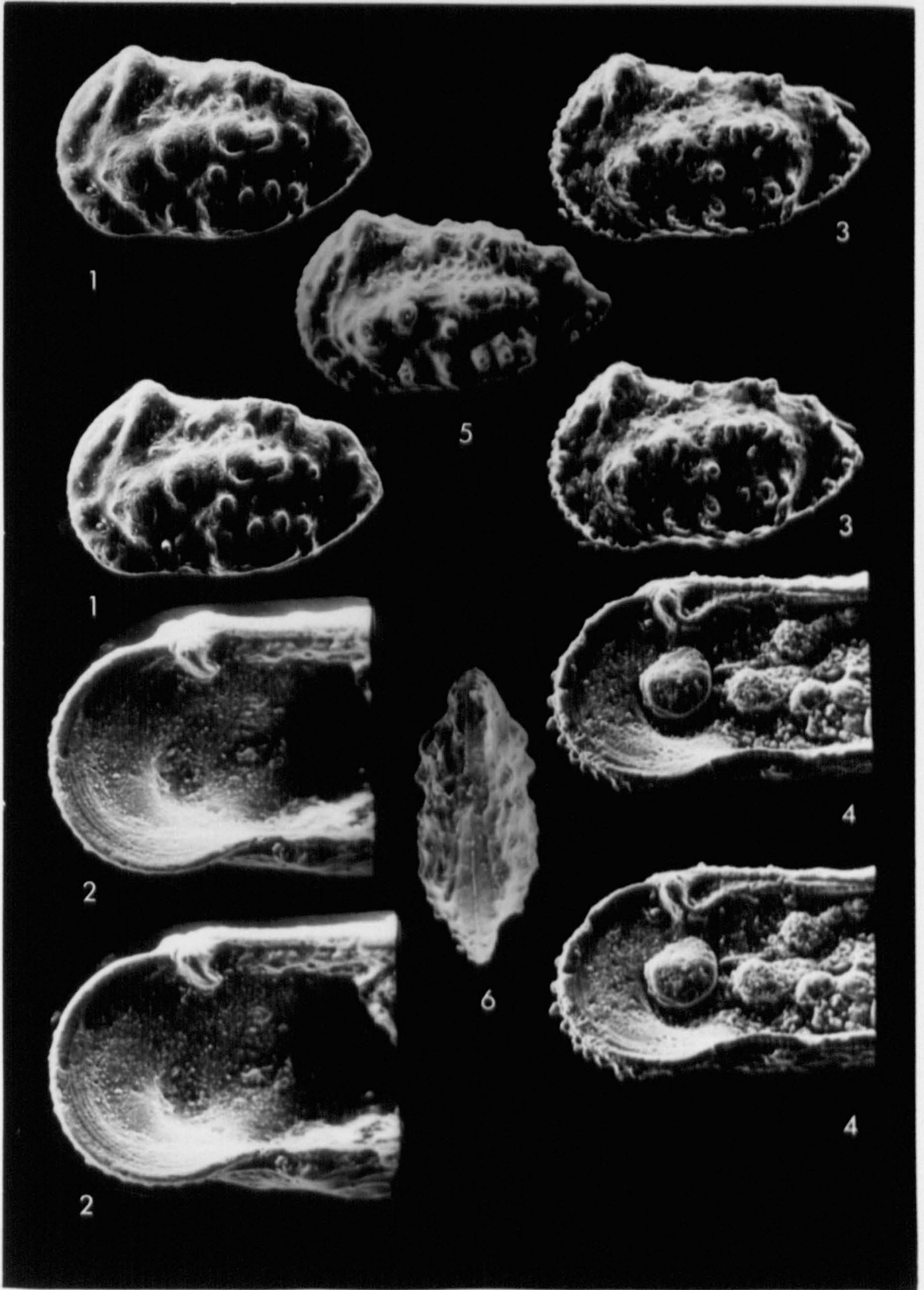
Fig. 3- Female carapace, left valve, external, lateral view, (paratype J.T. 440), stereoscopic paired photographs; South Rumaila Well-104, drilling depth 2352 m; X77.

Fig. 4- Right valve (broken), internal view, anterior hinge details, (paratype J.T. 450), stereoscopic paired photographs; South Rumaila Well-104, drilling depth 2384 m; X114.

Fig. 5- Female carapace, left valve, external, lateral view, (paratype J.T. 441); South Rumaila Well-104, drilling depth 2416 m; X79.

Fig. 6- Male carapace, external, ventral view, (paratype J.T. 435); East Baghdad Well-3, drilling depth 2290 m; X68.

PLATE-84



EXPLANATION OF PLATE - 85

Veeniacythereis maghrebensis(Bassoullet and Damotte,1969).

Fig. 1- Male carapace, left valve, external, lateral view, (J.T. 451), stereoscopic paired photographs; Ghalaisan Well-1, drilling depth 4195 ft; X56.

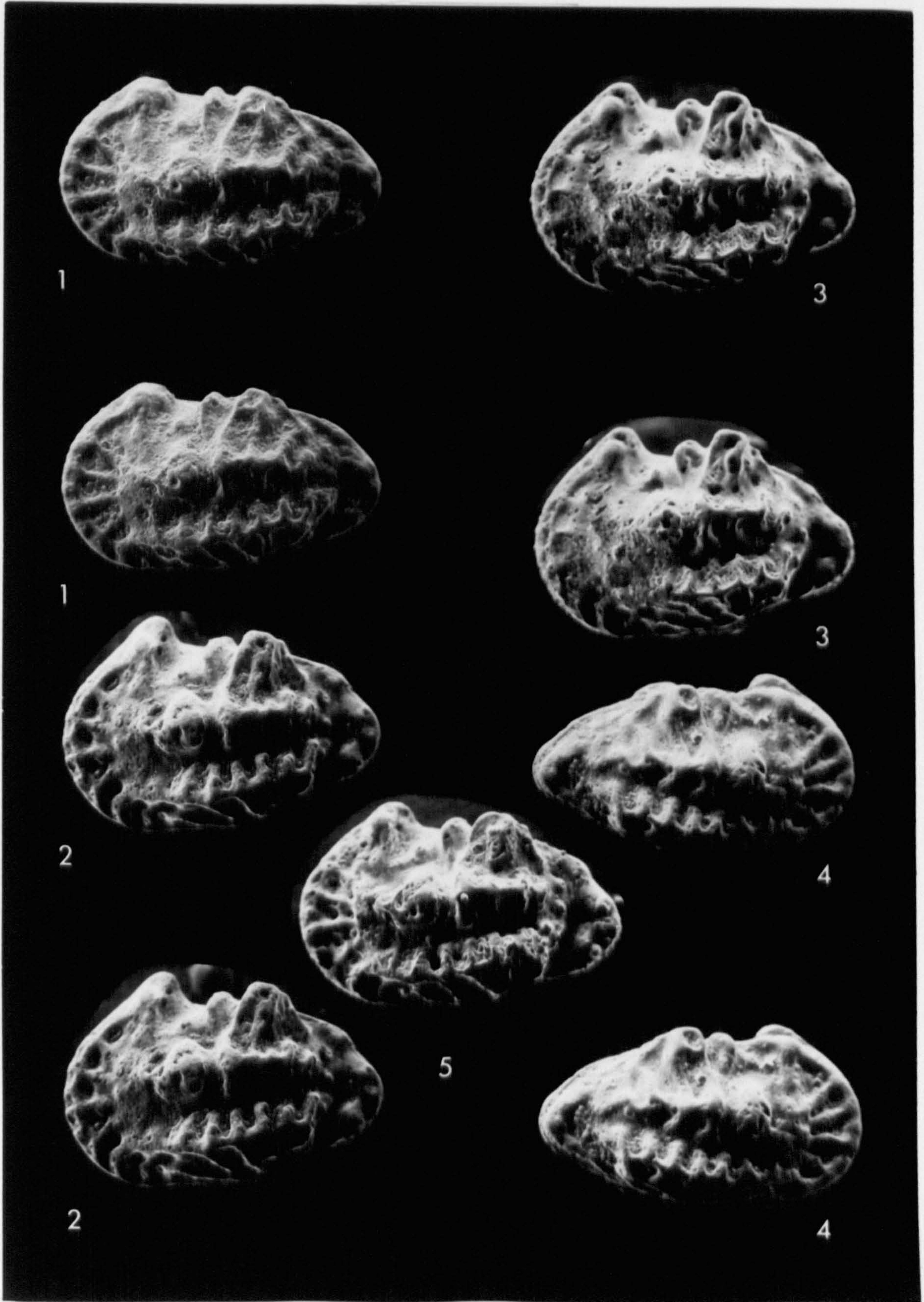
Fig. 2- Female carapace, left valve, external, lateral view, (J.T. 463), stereoscopic paired photographs; South Rumaila Well-104, drilling depth 2644 m; X60.

Fig. 3- Female carapace, left valve, external, lateral view, (J.T. 469), stereoscopic paired photographs; South Rumaila Well-104, drilling depth 2658 m; X70.

Fig. 4- Male carapace, right valve, external, lateral view, (J.T. 454), stereoscopic paired photographs; Ghalaisan Well-1, drilling depth 4190 ft; X57.

Fig. 5- Female carapace, left valve, external, lateral view, (J.T. 462); South Rumaila Well-104, drilling depth 2658 m; X59.

PLATE-85



EXPLANATION OF PLATE - 86

Veeniacythereis maghrebensis(Bassoullet and Damotte,1969).

Fig. 1- Female carapace, right valve, external, lateral view, (J.T. 461), stereoscopic paired photographs; South Rumaila Well-104, drilling depth 2658 m; X58.

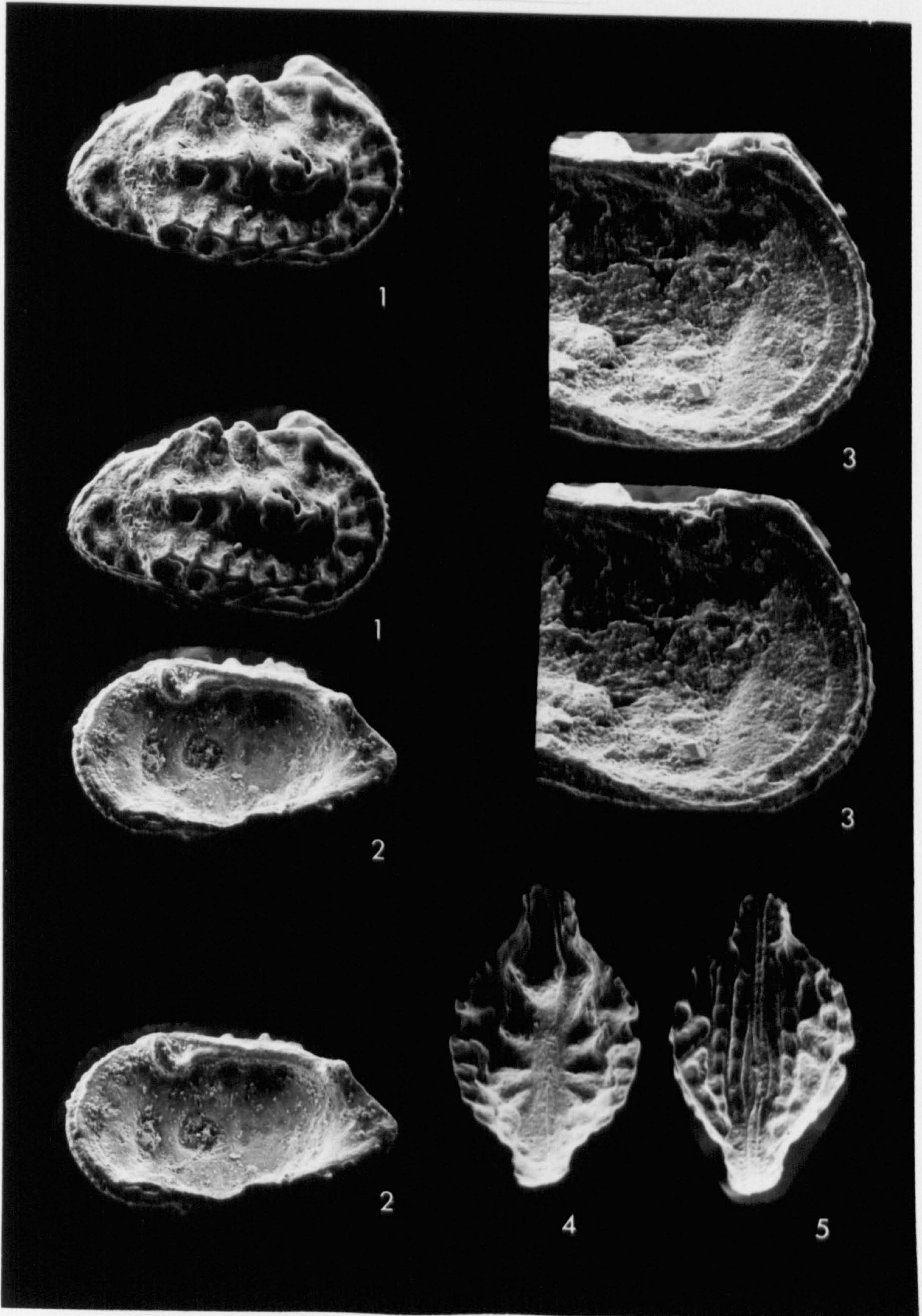
Fig. 2- Male right valve, internal, lateral view, (J.T. 465), stereoscopic paired photographs; Safawi Well-1, drilling depth 3515 ft; X84.

Fig. 3- Left valve (broken), internal view, anterior hinge, (J.T.455), stereoscopic paired photographs; Ghalaisan Well-1, drilling depth 4190 ft; X118.

Fig. 4- Female carapace, external, dorsal view, (J.T. 464); South Rumaila Well-104, drilling depth 2652 m; X56.

Fig. 5- Female carapace, ventral view, (J.T. 463); South Rumaila Well-104, drilling depth 2644 m; X55.

PLATE-86



EXPLANATION OF PLATE - 87

Veeniacythereis streblolophata (Al-Abdul-Razzaq and
Grosdidier, 1981).

Morphotype No. 1

All specimens from South Rumaila Well-104.

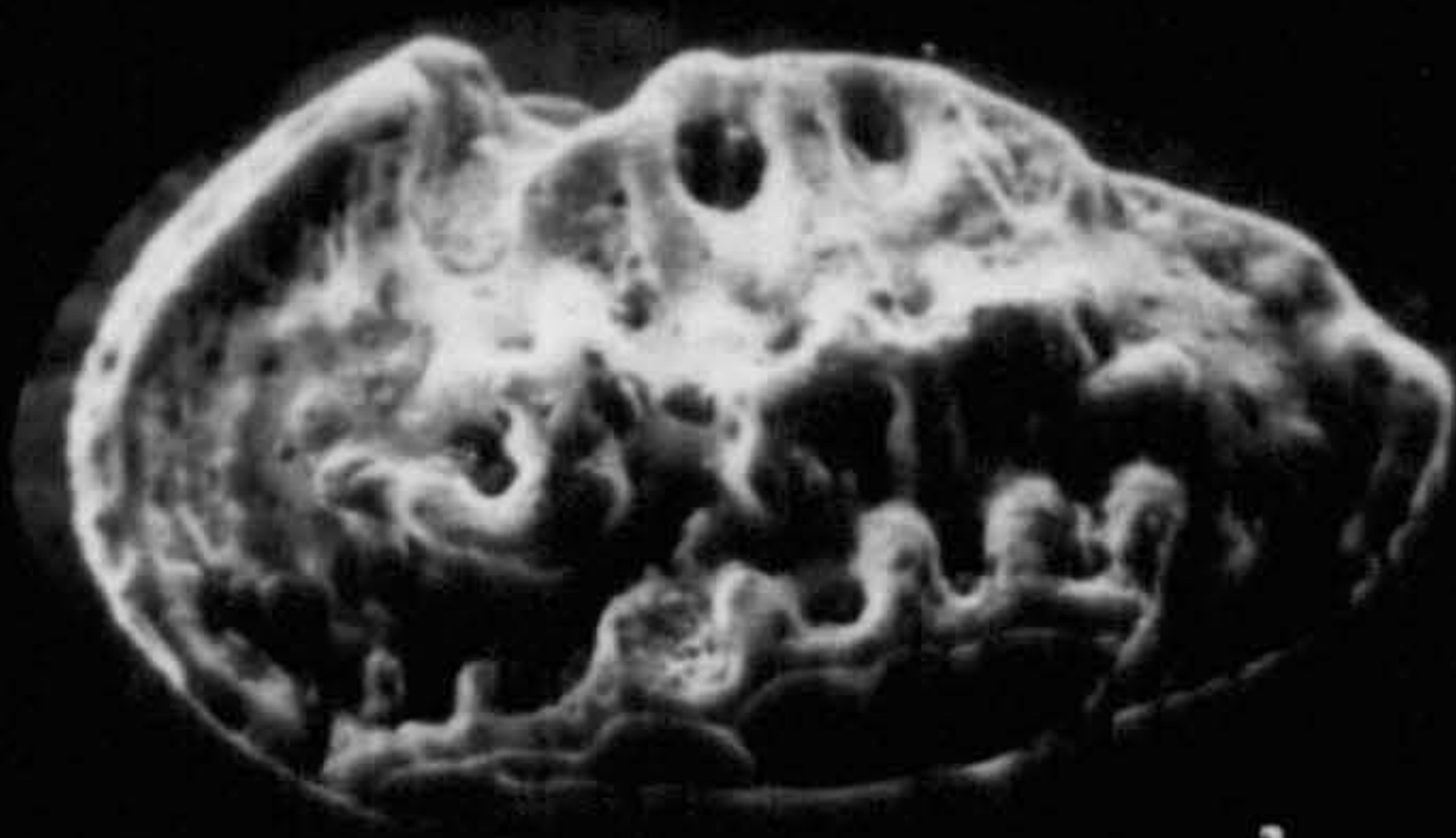
Fig. 1- Male carapace, left valve, external, lateral view,
(J.T. 472), stereoscopic paired photographs; drilling
depth 2744 m; X65.

Fig. 2- Female carapace, left valve, external, lateral
view, (J.T. 492), stereoscopic paired photographs;
drilling depth 2788 m; X79.

Fig. 3- Female carapace, left valve, external, lateral
view, (J.T.482), stereoscopic paired photographs; drilling
depth 2644 m; X71.

Fig. 4- Male carapace, right valve, external, lateral
view, (J.T. 471), stereoscopic paired photographs;
drilling depth 2724 m; X70.

PLATE-87



1



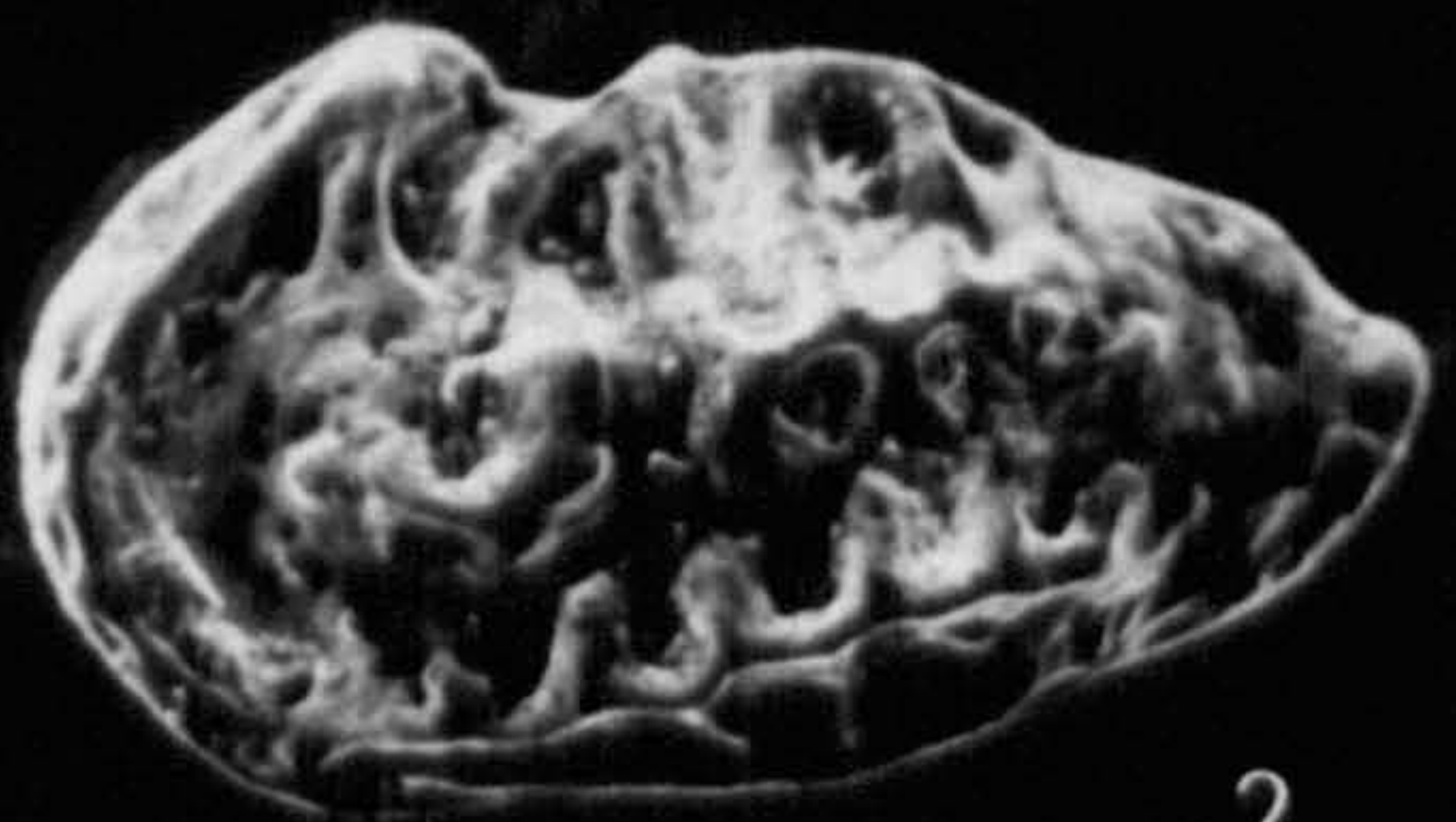
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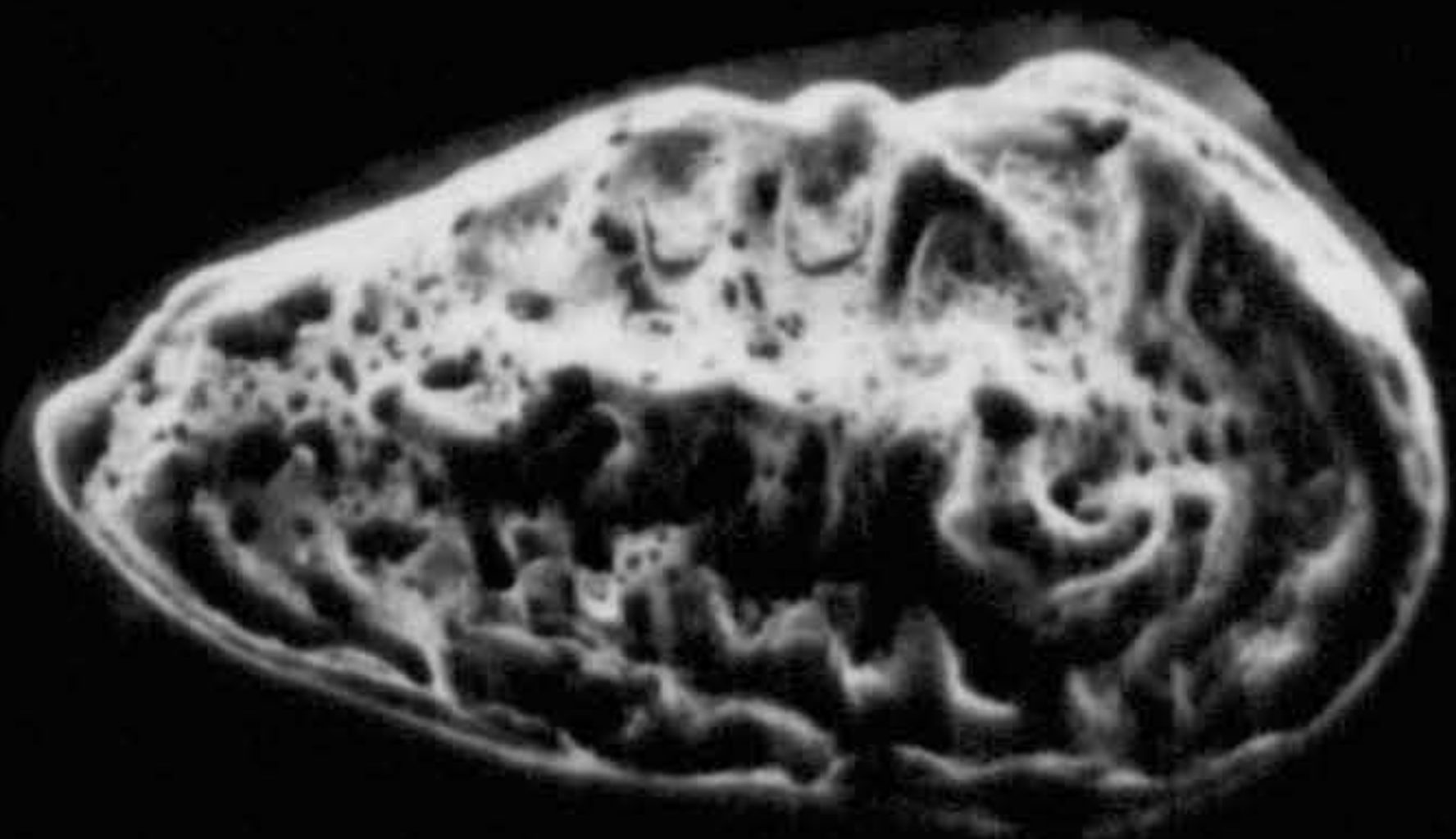
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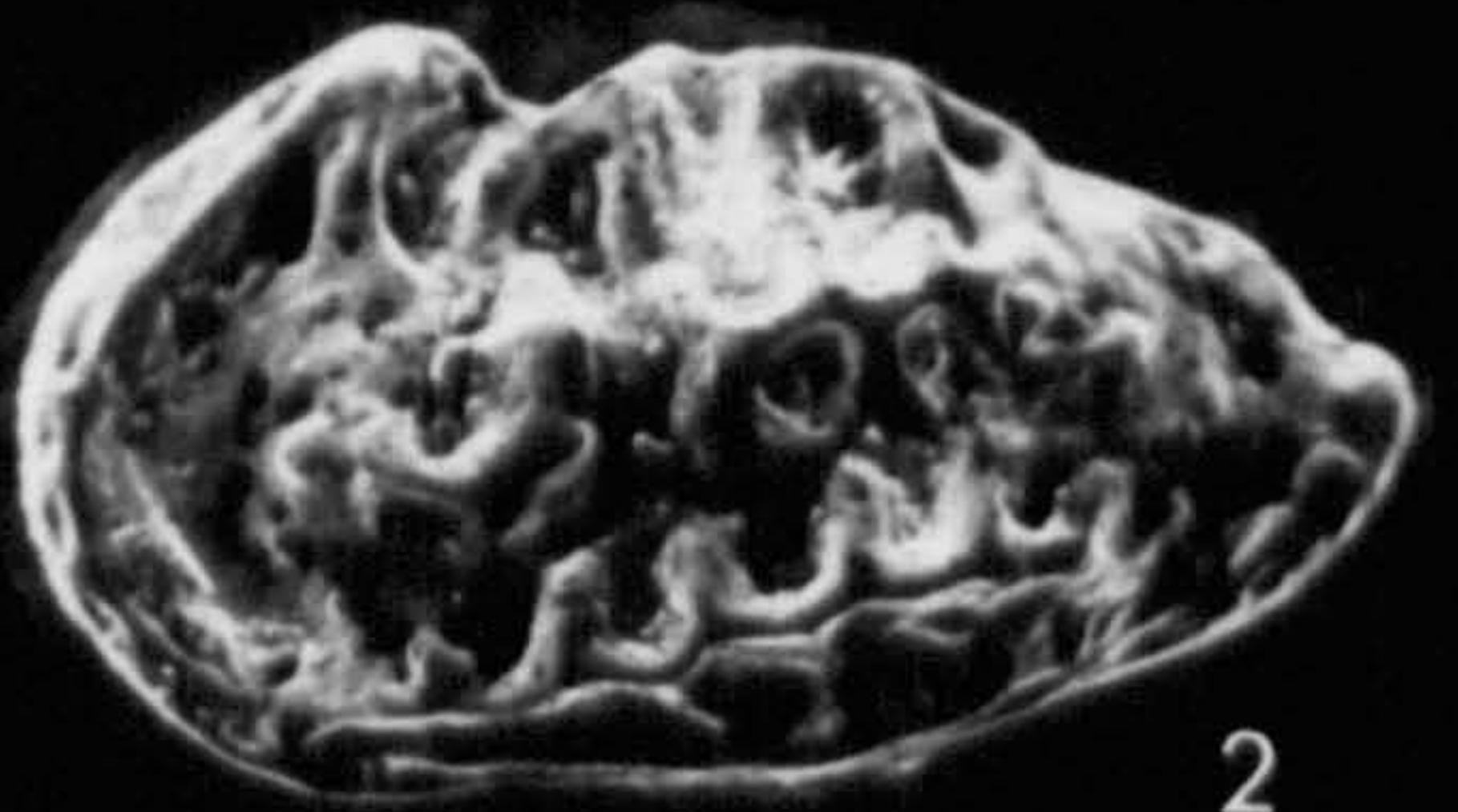
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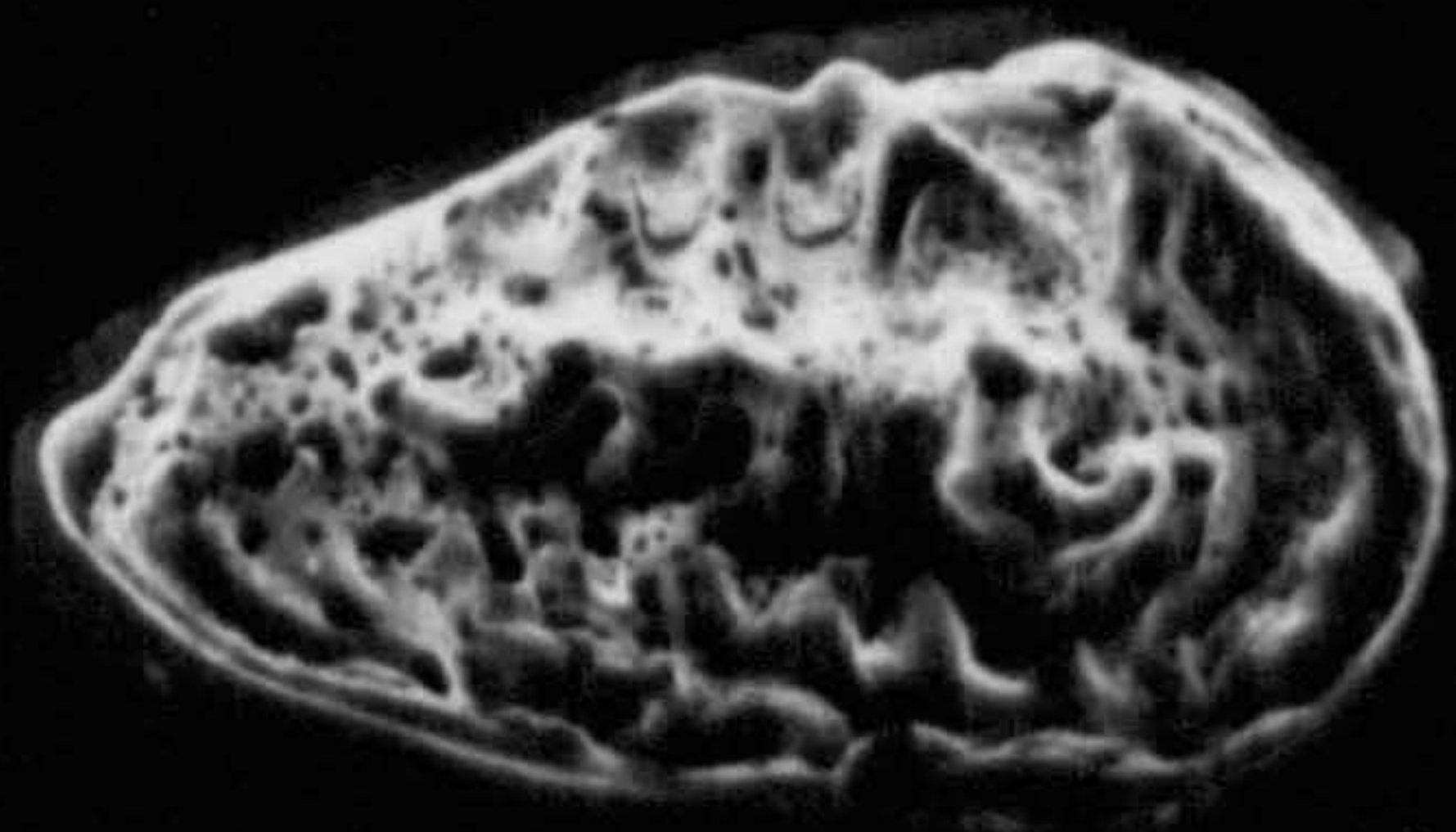
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2



4

EXPLANATION OF PLATE - 88

Veeniacythereis streblolophata (Al-Abdul-Razzaq and
Grosdidier, 1981).

Morphotype No. 2.

All specimens from South Rumaila Well-104.

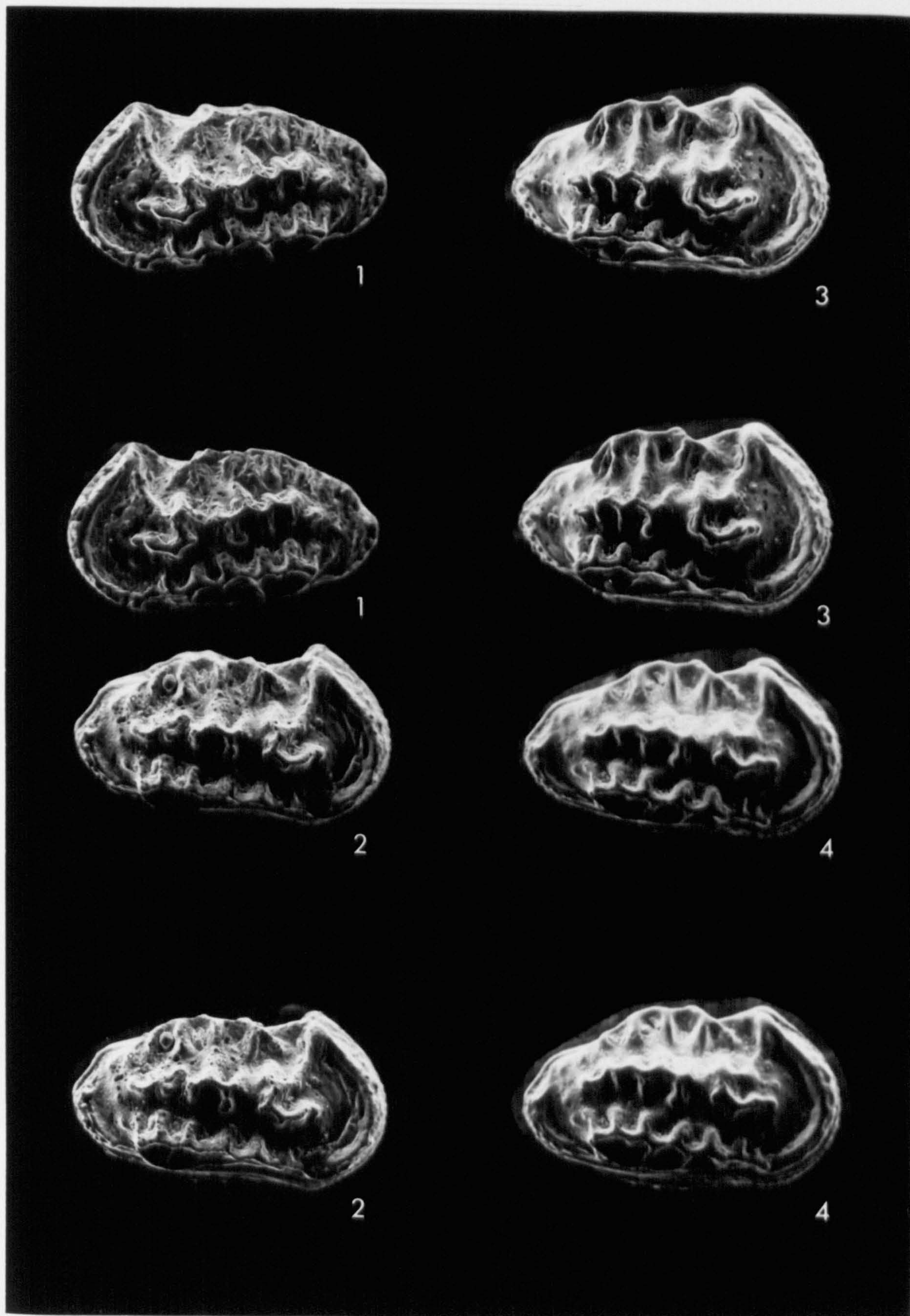
Fig. 1- Male carapace, left valve, external, lateral view,
(J.T. 481), stereoscopic paired photographs; drilling
depth 2662 m; X66.

Fig. 2- Male carapace, right valve, external, lateral
view, (J.T. 470), stereoscopic paired photographs;
drilling depth 2704 m; X72.

Fig. 3- Female carapace, right valve, external, lateral
view, (J.T. 491), stereoscopic paired photographs;
drilling depth 2672 m; X74.

Fig. 4- Male carapace, right valve, external, lateral
view, (J.T. 473), stereoscopic paired photographs;
drilling depth 2666 m; X66.

PLATE-88



EXPLANATION OF PLATE - 89

Veeniacythereis streblolophata (Al-Abdul-Razzaq and
Grosdidier, 1981).

Morphotype No. 2

All specimens from South Rumaila Well-104.

Fig. 1- Female carapace, right valve, external, lateral view, (J.T. 483), stereoscopic paired photographs; drilling depth 2644 m; X69.

Fig. 2- Right valve (broken), internal view, anterior hinge details, (J.T. 485), stereoscopic paired photographs; drilling depth 2674 m; X104.

Fig. 3- Right valve (broken), internal view, anterior hinge details, (J.T.486), stereoscopic paired photographs; drilling depth 2662 m; X85.

Fig. 4- Female carapace, left valve, external, lateral view, (J.T. 484); drilling depth 2674 m; X74.

Fig. 5- Male carapace, external, dorsal view, (J.T. 474); drilling depth 2732 m; X60.

Fig. 6- Female carapace, external, dorsal view, (J.T. 483); drilling depth 2644 m; X63.

Fig. 7- Female carapace, external, ventral view (J.T. 482), drilling depth 2644 m; X63.

Fig. 8- Male carapace, external view, (J.T. 480); drilling depth 2656 m; X62.

PLATE-89

