

REPORT ON REFERRED FOSSILS

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STRATIGRAPHIC RANGE	Early Maastrichtian	SHIPMENT NUMBER	ERG-82-14
GENERAL LOCALITY	Georgia	REGION	Wheeler Co.
QUADRANGLE OR AREA	Jordan 7.5 min. Quad.	DATE RECEIVED	4/13/82
KINDS OF FOSSILS	Calcareous Nannofossils	STATUS OF WORK	Complete
REFERRED BY	David Prowell and Harold Gill	DATE REPORTED	4/19/82
REPORT PREPARED BY	Charles Smith		

Report on calcareous nannofossils of two samples from the R. Towns No. 1 Well located about one mile north of Jordan, Georgia. Latitude 32 deg. 02 min. 37 sec., Longitude 82 deg. 38 min. 12 sec. The ground elevation is 157 feet above sea level, although the sample depths are calculated from the Kelly Bar whose elevation was 169 feet. All samples are 'ditch' or 'cuttings samples'.

Sample RT-2590 (-2578 feet S.L.)

C - AHMUELLERELLA OCTORADIATA
 R - BROINSONIA PARCA
 A - CRIBROSPHAERELLA EHRENBERGII
 VA - EIFFELLITHUS TURRISEIFFELI
 R - GARTNERAGO OBLIQUUM
 VR - KAMPTNERIUS PUNCTATUS
 R - LITHRAPHIDITES CARNIOLENSIS
 R - LUCIANORHABDUS CAYEUXII
 R - MICRORHABDULUS DECORATUS
 A - MICULA STAUROPHORA
 A - PREDISCOSPHAERA CRETACEA
 R - P. SPINOSA
 A - REINHARDITES sp. indet.
 VR - STEPHANOLITHION LAFFITTEI
 R - TETRALITHUS ACULEUS
 R - T. NITIDUS
 VA - T. OBSCURUS
 R - T. OVALIS
 C - T. TRIFIDUS
 VA - WATZNAUERIA BARNESAE
 C - ZYGODISCUS DIPLOGRAMMUS
 C - Z. SPIRALIS

Age and Correlation: This sample contains a fairly well preserved and moderately diverse flora several species of which are restricted to strata of Campanian and Maastrichtian age. The presence of TETRALITHUS TRIFIDUS, as well as T. NITIDUS, indicates the sample is of late

Campanian or early Maastrichtian age. The absence of EIFFELLITHUS EXIMIUS and LITHASTRINUS GRILLII, both restricted to beds of late Campanian age, leads me to believe the sample is of early Maastrichtian age. I would relate this sample with the Bluffport Marl Member of the Demopolis Chalk and the lower and middle parts of the Ripley Formation of Mississippi and Alabama, and probably the uppermost Cusseta Sand and lower two-thirds of the Ripley Formation of the Chattahoochee Area.

I realize this is not consistent with your relating this sample to Unit K4 of Gohn (1980). However, I see absolutely nothing in the nannos which would indicate a Santonian or early Campanian age. All evidence here indicates this is not the case. As is always possible with cuttings, we may be into a non-marine Santonian section and all I'm seeing is down-hole contaminants. With this type sample, I can't tell. If you have good E-log correlations, this alternative may be your best choice. If not, I personally would stick by the early Maastrichtian age.

Sample RT-3250 (-3238 feet S.L.)

VR - BROINSONIA PARCA
 VR - CRETARHABDUS CREMULATUS
 R - CRIBROSPHAERELLA EHRENBERGII
 R - LUCIANORHABDUS CAYEUXII
 VR - MICRORHABDULUS DECORATUS
 C - MICULA STAUROPHORA
 VR - PARHABDOLITHUS EMBERGERI
 C - REINHARDITES ANTHROPORUS
 VR - TETRALITHUS ACULEUS
 VR - T. NITIDUS
 R - T. OBSCURUS
 VR - T. TRIFIDUS
 C - WATZNAUERIA BARNESAE

Age and Correlation: I don't see any species in this sample which distinguish it from the flora in the overlying sample at -2578 feet S.L. The nannos are far more rare and show strong evidence of dissolution, although the key species are still present. As with the overlying sample, E. EXIMIUS and L. GRILLII are not present. Because so few fossils are present, this sample may be either late Campanian or early Maastrichtian in age. I don't feel quite so confident with 'negative' evidence, especially when working with such a poor flora. I see absolutely nothing to suggest a K3 or K4 age assignment.

As per your request, all excess sample material has been returned.

ABUNDANCE CODE

VA = greater than 50 individuals

A = 11-50 individuals

C = 6-10 ''

R = 3-5 ''

VR = 1-2 ''

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6/10