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Tertiary, Upper Cretaceous SHIPMENT NUMBER EEG-79-3 Georgia RECION Glynn Co. DATE RECEIVED 1/2/79 Pollen STATUS OF WORK Complete Greg Gohn DATE REPORTED 2/2/79 Ray Christopher

1:6ject 9450-01032

four cuttings samples were analyzed from the Pan American Union Camp ic. 1 well, GGS-1197, lat. 31 deg. 22 min. 20 sec. N., long. 81 deg. 33 min. 54 sec. W., Glynn County, Georgia. Sample depths are

> 2840-2850 ft. 3640-3650 ft. 3830-3840 ft. 4180-4190 ft.

reservation in all samples was downright lousy, and only through though dogged perseverance did I arrive at the age determinations out-

The sample at 2840-2850 ft. contained only Tertiary forms. Sorry, reg, but even I cannot give you a Cretaceous age for this one.

V (Eutaw) equivalents. The biostratigraphically significant forms  $\pm t$   $\pm 6.40-3.650$  are

POROCOLPOPOLLENITES SP.
COMPLEXIOPOLLIS ABDITUS
SANTALACITES MINOR
MINORPOLLIS MINIMA
COMPLEXIOPOLLIS SP. D

Ft 5650--3840, the significant forms are

COMPLEXIOPOLLIS ABDITUS MINCRPOLLIS MINIMA POROCOLPOPOLLENITES Sp. MOMIPITES FRAGILIS COMPLEXIOPOLLIS Sp. C

and other zone V forms of COMPLEXIOPOLLIS. a

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SHIPMENT NUMBER

EEG-79-3

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REGION

DATE RECEIVED

STATUS

OF WORK

DATE REPORTED

The sample at 4180-4190 ft. contains an abundance (relatively speaking) of zone V forms, but it does contain 2 specimens of ATLANTOPOLLIS VERFUCOSA. This form is characteristic of zone IV, it does occur in the Turonian of Texas (post zone IV, pre zone V interval), and has never been observed in good zone V material from the outcropping Gulf Coastal Plain. I therefore consider the sample at 4180-4190 ft. to be either zone IV in age (Tuscaloosa equivalent, upper Cenomanian), or from a post zone IV, pre zone V interval not represented in the Gutcrop section. a

Ray Christopher

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U. Cretaceous, Santonian-Maastrichtian

SHIPMENT NUMBER

EEG-79-3

Georgia

REGION

Glynn Co.

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DATE RECEIVED

1/2/79

Calcareous Nannofossils

STATUS OF WORK

Complete

Cregory Gohn

DATE REPORTED

1/29/79

Charles C. Smith

This report involves the calcareous nannofossil age determinations of ten cuttings samples collected from the Pan American Union Camp No. 1 well, Georgia Geological Survey well No. 1197, lat. 31 deg. 22 min. 20 sec., long. 81 deg. 33 min. 54 sec., Glynn County, Georgia. The appermost five samples from this well are of Paleocene and early Eocene age, and thus their nannofloras were not examined in detail. If these apper samples are of concern, perhaps Laurel Bybell could provide you with some biostratigraphic assignments. The five Cenozoic samples are as tollows:

2190-2200 feet 2330-2340 feet 2450-2460 feet 2730-2740 feet 3070-3080 feet

towest occurrence surfaces of nannofossil species can not be used reliably in making biostratigraphic determinations. Thus, the ages quoted town for the five Upper Cretaceous samples must be regarded as minimum ages for the samples.

3300-3310 at or below the middle Maastrichtian 3430-3440 at or below the middle Maastrichtian 3640-3650 Campanian or older 3830-3840 Campanian or older 4180-4190 late middle Santonian or older

Eample 3300-3310

Ace: middle Maastrichtian

Flora:

CRETARHABDUS CONICUS

C. CRENULATUS

LITHRAPHIDITES CARNIOLENSIS

L. QUADRATUS

LUCIANORHABDUS CAYEUXII

LICRORHABDULUS DECORATUS

M. ELONGATUS

M. STRADNERI
MICULA STAUROPHORA
TETRALITHUS OBSCURUS
WATZNAUERIA BARNESAE
ZYGODISCUS ORIONATUS

Z. SPIRALIS

Comments: This sample consists of a rare and poorly preserved (extensively etched) nannofossil flora containing common Paleocene 6

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CONT.

SHIPMENT

NUMBER EEG-79-3

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DATE REPORTED

contaminants. The presence of L. QUADRATUS and T. OBSCURUS, and absence of early Maastrichtian species such as TETRALITHUS GOTHICUS and T. TRIFIDUS, indicates this sample is of middle Maastrichtian age. The Cretaceous-Tertiary contact must lie somewhere within the interval between 3080 and 3300 feet.

Sample 3430-3440 feet

Age: middle Maastrichtian Flora: as above, plus

ARKHANGELSKIELLA CYMBIFORMIS : CRIBROSPHAERELLA EHRENBERGII

KAMPTNERIUS PUNCTATUS TETRALITHUS ACULEUS

Comments: This sample contains a rare to common, poorly preserved nannoflora as in the sample at 3300-3310 feet.

Sample 3640-3650 feet

Age: Campanian

Flora: as in the two overlying samples, plus

CHIASTOZYGUS CUNEATUS

C: PLICATUS

EIFFELLITHUS EXIMIUS

E. TURRISEIFFELI

PARHABDOLITHUS ANGUSTUS PREDISCOSPHAERA CRETACEA

VAGALAPILLA MATALOSA

Comments: This sample contains a very rich and diverse, well preserved flora of which only a few species have been listed above. The presence of EIFFELLITHUS EXIMIUS indicates this sample is at or below the top of the Campanian. Intensive examination of this and the underlying sample failed to document the presence of any species indicative of strata of pre-Campanian age.

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SHIPMENT NUMBER

EEG-79-3

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REGION

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DATE REPORTED

Sample 3830-3840 feet
Age and comments as above.

Sample 4180-4190 feet
Age: late middle Santonian or below

Flora:

AHMUELLERELLA OCTORADIATA
ERAARUDOSPHAERA BIGELOWI
CHIASTOZYGUS CUNEATUS
EIFFELLITHUS EXIMIUS
LITHASTRINUS FLORALIS
L. GRILLII
LITHRAPHIDITES CARNIOLENSIS

LUCIANORHABDUS CAYEUXII MARTHASTERITES FURCATUS MICULA STAUROPHORA PREDISCOSPHAERA CRETACEA TETRALITHUS OBSCURUS VAGALAPILLA MATALOSA WATZNAUERIA BARNESAE

Comments: This sample contains a very rich and diverse calcareous rannolossil flora of which only a few species have been listed.here. The presence of L. FLORALIS, L. GRILLII, and M. FURCATUS is indicative of strata of late middle Santonian or earlier age. Although this sample may be older than the middle Santonian, I see no evidence in the form of the presence of an older flora to indicate a pre-middle Santonian age.

Nannofossily yours.

Charles C. Smith

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Рис **БААРН**Ц SHIPMENT Paleogene NUMBER EEG-79-3 Strain REGION 84.33 Georgia Glynn Co. LURANGLE DATE AHLA RECEIVED 1-9-79 400 ... STATUS 1.04.14 Calcareous nannofossils OF WORK complete TEFFED DATE Gregory S. Gohn REPORTED 4-16-79 . Pa 4. 1 2 + 4 × £ 3 6 ¥ Laurel M. Bybell

Project No. 9450-01832

Cuttings from the Pan-American-Union Camp No. 1 well, Georgia Geological Survey well 1197, were examined for calcareous nannofossils. The elevation of the well is 24 feet and the T.D. is 4460 feet.

Sample 100 ft. -- Barren.

Sample 300 ft. -- Barren.

Sample 500 ft. -- unidentifiable fragments.

Sample 700 ft.

Species present: COCCOLITHUS PELAGICUS (Wallich) 1877

Sample 980 ft.

Species present: CYCLOCOCCOLITHUS FLORIDANUS (Roth and Hay) 1967 Age: Middle Eocene - Late Oligocene.

Sample 1200 ft.

Species present: COCCOLITHUS PELAGICUS (Wallich) 1877

Sample 1400 ft -- unidentifiable placoliths.

Sample 1600 ft.

Species present: CYCLOCOCCOLITHUS FLORIDANUS (Roth and Hay) 1967 Age: Middle Eocene-Late Oligocene.

Sample 1800 ft.

Species present: COCCOLITHUS PELAGICUS (Wallich) 1877

Sample 2000 ft.

Species present:

COCCOLITHUS EOPELAGICUS (Bramlette and Riedel) 1954 CYCLOCOCCOLITHUS FLORIDANUS (Roth and Hay) 1967 CYCLOCOCCOLITHUS FORMOSUS Kamptner 1963

Age: Middle Eccene - Early Oligocene, probably Eccene. &

REPORT NOT TO BE QUOTED OR PARAPHRASED IN PUBLICATION WITHOUT A FINAL RECHECK BY THE PALEONTOLOGY AND STRATIGRAPHY BRANCH.

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SHIPMENT

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Sample 2200 ft.

Species Present:
BLACKITES SPINOSUS (Deflandre and Fert) 1954

BRAARUDOSPHAERA DISCULA Bramlette and Riedel 1954

CAMPYLOSPHAERA DELA (Bramlette and Sullivan) 1961

COCCOLITHUS EOPELAGICUS (Bramlette and Riedel) 1954

COCCOLITHUS PELAGICUS (Wallich) 1877

CYCLOCOCCOLITHUS FLORIDANUS (Roth and Hay) 1967

DISCOASTER BARBADIENSIS Tan Sin Hok 1927

SPHENOLITHUS MORIFORMIS (Bronnimann and Stradner) 1960

SPHENOLITHUS PSEUDORADIANS Bramlette and Wilcoxon 1967

TOWEIUS CRATICULUS Hay and Mohler 1967

ZYGRHABLITHUS BIJUGATUS (Deflundre) 1954

Age: Late Paleocene-Early Eccene, probably Paleocene.

Sample 2730-2740 ft.

Species present:

COCCOLITHUS PELAGICUS (Wallich) 1877

SPHENOLITHUS Sp.

TOWEIUS CRATICULUS Hay and Mohler 1967

Age: Late Paleocene-Early Eccene, probably Paleocene.

Laurel M. Bybell W.

REPORTED

2/2/79

Tertiary, Upper Cretaceous

Georgia

Hegion

Glynn Co.

DATE RECEIVED 1/2/79

STATUS OF WORK

Complete

Ray Christopher

Grey Gohn

Freject 9450-01832

tour cuttings samples were analyzed from the Pan American Union Camp to. 1 well, GGS-1197, lat. 31 deg. 22 min. 20 sec. N., long. 81 deg.

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The sample at 2840-2850 ft. contained only Tertiary forms. Sorry, but even I cannot give you a Cretaceous age for this one:

Let ples at 3640-3650 ft. and 3830-3840 ft. both appear to be zone (Eutaw) equivalents. The biostratigraphically significant forms at 3640-3650 are

FOROCCLPOPOLLENITES SP. COMPLEXIOPOLLIS ABDITUS SANTALACITES MINOR MINORPOLLIS MINIMA COMPLEXIOPOLLIS SP. C

... V-3840, the significant forms are

COMPLEXIOPCLIS ABDITUS FINORPOLLIS MINIMA FOROCOLPOPOLLENITES sp. COMPLEXIOPOLLIS sp. C

and other zone V forms of COMPLEXIOPOLLIS.

OB GROWING ALL LINES

SHIPMENT NUMBER

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Ray Christopher

- Kent