



Amoco Production Company

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March 23, 1983

Mr. K. David Newell
KANSAS GEOLOGICAL SURVEY
1930 Avenue A, Campus West
University of Kansas
Lawrence, Kansas 66044

Dear David,

Enclosed are the calcareous microfossil data from Paul Brenckle's work. You received a rough copy of his data in my February letter. This enclosure represents a final copy.

Sincerely,

Chuck Sawyer

CS:dh

Enclosure

W

AMOCO PRODUCTION COMPANY
Tulsa, Oklahoma
February 22, 1983

83053ART0078

FILE: Technical Service 825370PS

TO: O. R. Hille, Denver Region

ATTN: C. W. Sawyer

SUBJECT: Calcareous Microfossil Identifications from Mississippian Core,
Hugoton Embayment, Southwestern Kansas.

Attached is a list of Mississippian calcareous microfossils identified by P. L. Brenckle from nine wells in the Hugoton area. The Kansas Geological Survey supplied all the core for this study with the provision that Amoco provide microfossil identifications for any material used. The enclosed list contains identifications only of literature taxa and no confidential Amoco paleo data are included. Transmission of the identifications to the Kansas Survey would be appropriate.

ERIC R. MICHAELIS

By Charles F. Upshaw
Charles F. Upshaw

PLB:sdg
Attachment

cc: J. A. Babcock
L. C. Babcock
W. S. Davis, Denver Region
H. R. Lane
A. R. Ormiston
J. W. Parks, Denver Region
R. W. Sherwood, Denver Region

AMOCO PRODUCTION COMPANY
Tulsa, Oklahoma
February 22, 1983

83053ART0085

FILE: T.S. 825370PS

TO: C. F. Upshaw

SUBJECT: Calcareous Microfossils in Mississippian Core from the Hugoton Embayment, Southwestern Kansas

The following calcareous microfossils were found in Hugoton Mississippian cores supplied to us by the Kansas Geological Survey. The Denver Southern Division will forward these identifications to the Survey as part of our agreement for their use. The ages of most of these microfossils have been outlined in my memorandum of November 18, 1982, and discussed at the Hugoton Core Evaluation meeting in Denver on December 9-10. Since the meeting, samples from the previously unstudied M.L.B. Maune 9 have been processed and supplemental thin sections made from the Pan Am Black A-7 and S.W. Maune 4 wells. Identifications from all these new samples are included in this report.

Shallow Water Maune No. 4, 31-21S-33W, Finney Co.

<u>Sample (depth in ft)</u>	<u>Identification</u>
4633	Barren
4671-72	<u>Endothyra?</u> sp., indet. <u>Archaeodiscidae?</u> , <u>Calcisphaera</u> sp., <u>Diplosphaerina inaequalis</u> , <u>Nodosarchaediscus</u> sp.
4676	indet. <u>Endothyridae</u> , <u>Calcisphaera</u> sp., indet. <u>Salebridae</u> , <u>Diplosphaerina inaequalis</u> .
4683	indet. <u>Endothyridae</u> , <u>Calcisphaera</u> sp.,
4689	indet. <u>Endothyridae</u> , <u>Aoujgalia richi</u> , <u>Archaeodiscus</u> sp., <u>Diplosphaerina inaequalis</u> , <u>calcitor-nellids?</u> , <u>Endothyra</u> sp., indet. <u>Archaeodiscidae</u> , <u>Euendothyranopsis?</u> sp., <u>Stacheoides</u> sp., <u>Nodosarchaediscus?</u> sp.

*Age from DZ from core

<u>Sample (depth in ft)</u>	<u>Identification</u>
4692-93	<u>Endothyra</u> sp., <u>Eoendothyranopsis?</u> sp., <u>Archaeodiscus</u> sp., <u>Nodosarchaediscus</u> sp., <u>Stacheoides meandriformis</u> , <u>Koninckopora minuta/pruvosti</u> .
4696	indet. Endothyridae, indet. Aoujgaliaceae, <u>Eoendothyranopsis?</u> sp., <u>Calcisphaera</u> sp., <u>Diplosphaerina inaequalis</u> , <u>Globoendothyra?</u> sp., <u>Tetrataxis</u> sp.
4699	<u>Proninella</u> sp., <u>Eoendothyranopsis</u> sp., <u>Koninckopora minuta/pruvosti</u> .
4749	<u>Endothyra</u> sp., <u>Asphaltina?</u> cordillerensis?, <u>Proninella</u> sp., <u>Koninckopora minuta/pruvosti</u> , <u>Eerlandia clavatula</u> gp., <u>Globoendothyra</u> sp.
4764-65	<u>Endothyra</u> sp., <u>Eoendothyranopsis</u> sp., <u>Diplosphaerina inaequalis</u> , <u>Stacheoides</u> sp., <u>Archaeodiscus</u> sp., <u>Koninckopora minuta/pruvosti</u> , <u>Epistacheoides</u> sp., <u>Aoujgalia variabilis</u> , <u>Skippella</u> sp., <u>Eoendothyranopsis scitula</u> , <u>Globoendothyra</u> sp.
4766.5	<u>Eoendothyranopsis</u> sp., <u>Archaeodiscus</u> sp., <u>Diplosphaerina inaequalis</u> , <u>Endothyra</u> sp., <u>Asphaltina?</u> cordillerensis?, <u>Koninckopora</u> sp., <u>Stacheoides meandriformis</u> , <u>Eoendothyranopsis scitula</u> , <u>Koninckopora minuta/pruvosti</u> .
4777	indet. Endothyridae, <u>Pseudoammodiscus?</u> sp., <u>Nodosarchaediscus</u> sp., <u>Eoendothyranopsis?</u> sp., <u>Endostaffella discoidea?</u> , <u>Planoarchaediscus?</u> sp., <u>Calcisphaera</u> sp., <u>Endothyra</u> sp., <u>Koninckopora minuta/pruvosti</u> .

M. L. Brown Maune No. 8, 31-21S-33W, Finney Co.