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FLORIDA STATE UNIVERSITY CAMPUS



MAIL: DRAWER 631
TALLAHASSEE, FLORIDA

November 1, 1947

Dr. H. B. Stenzel, Geologist
Bureau of Economic Geology
The University of Texas
University Station, Box B
Austin 12, Texas

Dear Dr. Stenzel:

Your letter of October 21, 1947 to which was attached a preliminary faunal list of locality L-154 has been received. The list is quite significant and I am certainly pleased that you have been able to prepare at least this preliminary tabulation. We plan to go to press on the field notebook on November 15, so that if it is at all possible to have additional lists to include in this notebook, it would certainly be appreciated.

I would like to indicate, however, that there is reasonably good evidence that the limestone containing Periarchus lyelli var. has overlapped an eroded and faulted structure that may include beds as old as the Lake City (basal Claiborne). Therefore, it seems that the logical break between the Claiborne and Jackson will come at the base of the Periarchus limestone, typified by locality 154. I say there is reasonably good evidence and we are planning to place a number of core holes that will definitely prove or disprove this theory. Unfortunately these cannot be drilled until after the field conference.

In order that the problem may be fresh in your mind, I would like to review the normal succession of beds in the area, which are: 1) at the top the Ocala limestone, sensu stricto; 2) the lower Ocala, which includes foraminiferal forms found in the Moody's Branch formation; 3) Periarchus limestone; 4) Avon Park limestone or Gulf Hammock formation; 5) Lake City limestone. The beds up through the Avon Park appear to have been elevated and faulted along a structural arch, eroded and then covered with Periarchus limestone and younger beds.

It is hoped that this additional information will be of some assistance to you, and I am looking forward to seeing you on the field trip.

Very sincerely yours,

A handwritten signature in cursive script that reads "R. O. Vernon".

ROBERT O. VERNON

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