

REPLY TO E. F. HAYE AND S. H. YUNGUL AND L. P. STEPHENSON

By

P. E. GREENER

In my short note regarding gravity anomalies associated with reefs I have tried to refute present explanations and to reopen the discussion of this phenomenon. I have used the expression 'Incorrect' with respect to Yungul's proposition that the reef rises like a salt dome and that the reef base may eventually lie higher than the surrounding area. I have further suggested that seafloor-relief due to differential compaction is not an acceptable concept. And in regards to Haye's suggestion that the overburden pressure is higher above a reef than in the surrounding area I have termed this unrealistic and contrary to generally accepted ideas of the overburden load. I find that these criticisms of the present explanations of these anomalies are well founded.

I agree with the authors that we have a problem that requires further investigation. To encourage further discussion of these gravity anomalies was precisely the point of my short note. A full understanding of this phenomenon should be of interest not only to the geophysicist, but equally to the sedimentologist and the structural geologist.