

Petroleum Geology ta3450
Written Examination, January 23, 2004

Prof. Dr. Stefan M. Luthi

The following questions should be answered as concisely as possible (conciseness counts towards the final score!). Please mention your name and student number at the top of each sheet.

1. Explain why many significant developments in petroleum geology have started in the United States of America.
2. Show the maturation of organic matter in sedimentary rocks with the aid of a graph.
3. What are olefins? Where are they generated and what can they be used for?
4. You are on a flight from Amsterdam to Cape Town (South Africa). Over what oil provinces will you fly? Describe briefly their settings and name one or two fields if possible.
5. The figure below shows the Sunset-Midway field in California in a W-E cross section. Describe the accumulation and the suggested migration conditions. What is special about this field?

