

Field Methods for Petroleum Geologists

Fakhry A. Assaad

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A Guide to Computerized
Lithostratigraphic Correlation Charts
Case Study: Northern Africa

 Springer

Fakhry A. Assaad
1350, 37th, Str. East Tuscaloosa,
AL 35405
USA
FekAsa@aol.com

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Personal Dedication

To Philip E. LaMoreaux

*This book is cordially dedicated to **Dr. Philip E. LaMoreaux**, the former State Geologist of Alabama, the former president of his own firm, PELA, and the chairman of several scientific institutes all over the US. I worked with him as a co-expert at the United Nations of Egypt in the early 1960s, being in charge of the Geology Department at the New Valley Project of the Western Desert and later as chief of research studies in the Northwestern Coastal Zone of Egypt together with Mr. Thomas J. Joiner, the ex-State Geologist of Alabama.*

*It was a pleasure to work personally with Phil LaMoreaux in the early 1980s, in different projects at his own firm PELA, and later in editorial activities involving scientific articles and book reviews of recent publications, issued by **The Environmental Geology Journal** of Springer-Verlag. His scientific support and encouragement were appreciated for producing the book **Field Methods for Geologists and Hydrogeologists**, published by Springer-Verlag, Heidelberg, Germany, 2003, together with other books; as a co-author of a textbook **Environmental Hydrogeology**, published by Taylor Francis Group, LLC Co. 1995; and as a senior editor of the book **Annotated Bibliography of Karst Terranes, Vol. 5-1**, published by the International Association of Hydrogeologists, Verlag Heinz Heise, Hannover, Germany, 1993—a lot to learn from his professional experience.*

Fakhry A. Assaad

Preface

The author worked at Sonatrach of Algeria (Société National de Transport et de Hydrocarbures) for seven consecutive contracts over more than a decade, being in charge of the Triassic Province of Algeria, besides having responsibility for the Database Retrieval System (PetroData System), established in 1970 by the Exploration Directorate.

The author started his career with Sonatrach as a District Geologist Engineer in northern Algeria, and later worked with an international group from Technoexport (1971) on the Triassic Province of the Algerian Saharan platform.

Several projects were accomplished:

1. In 1970–1972, he carried out detailed structural and stratigraphic studies of the Triassic reservoirs, and defined the limits of deposition of the Triassic basin in Algeria.
2. Later, he established a computer application for a lithostratigraphic correlation chart of the sedimentary formation ($3\frac{1}{2} \times \frac{1}{2}$) m, as a type model for the Arabian Maghreb region (northwestern Africa), which can be further extended to cover North Africa.
3. He was in charge of the Database Retrieval System (PetroData System), as a liaison with the exploration districts to supervise and manage the quality of the input well data, as well as the geological, drilling, productive, and geophysical data, etc., in order to define and formulate retrieval requests for computer extraction procedures. He provided corrections and improvements to refine the edit, validation, and cross check functions of the maintenance subsystem.

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