Sample Outline

OUTLINE

"The Petrographic Characteristics of the Elk Basin Sandstones
and Their Correlation with Joint Spacing"
by John Lerner

Abstract

I. Introduction
    A. Distribution of Joints about Folds
    B. Joint Spacing and Fracture Porosity in the Petroleum Industry
    C. Effect of Lithology on Joint Development
    D. Objective
        1. Perform Petrographic Analysis of Elk Basin Sandstones
        2. Establish Correlation between Joint Spacing and Petrography
II. Background Literature
    A. Definition of Fracture Spacing Ration
    B. Past Work on Fracture Spacing Ration in Sedimentary Rocks
        1. Fracture Spacing Ration in Various Geological Localities
        2. Fracture Spacing Ration as a Function of Rock Properties
    C. Possible objective of interpreting the record of the Eemain interglacial.
III. Geologic Setting of Big Horn Basin
    A. Stratigraphy of Big Horn Basin
    B. Structural Geology of Big Horn Basin
    C. Description of Elk Basin
IV. Experimental Technique
    A. Sampling of Fracture Spacing Ration
    B. Sampling and Preparation of Thin Sections
    C. Point Counting Technique
V. Results
    A. Formation versus Composition
    B. Formation versus Porosity
    C. Bed Thickness versus Porosity and Composition
VI. Discussion of Correlation between Point Counting Data and Fracture Spacing Ration
    A. Composition versus Fracture Spacing Ration
    B. Porosity versus Fracture Spacing Ration
VII. Conclusions
VIII. References