

Geol. 532 - Carbonate Petrology and Depositional Systems

Research Project

Lower Permian (Wolfcampian) Hueco Formation in the Robledos Mountains

Background References

Jordan, C. F. and Wilson, J. L., 1971, The Late Paleozoic section of the Franklin Mountains: Permian Basin section -SEPM 1971 Field Conference Guidebook, p. 77-86.

Mack, G. H. and James, W. C., 1986, Cyclic sedimentation in the mixed siliciclastic-carbonate Abo/Hueco transitional zone (Lower Permian), southwestern New Mexico: Journal of Sedimentary Petrology, V. 56, p. 365-347.

Bailey, B., 2000, Sedimentology, Ichnology, and Sequence Stratigraphy of the Abo and Hueco Formations (Wolfcampian), South-central New Mexico: MS Thesis, NMSU, 166pp.

Project Requirements and Products

1. Detailed measured section of a portion of the Hueco Formation in the Robledos Mountains. The class will measure the section as a group during the class field trip Jan. 26, 2008.
2. Samples (polished slabs with thin section billets) of all lithofacies types sampled during section measuring. You will generate thin section billets and polished slabs in our lab in the basement. Thin section billets will be sent to Quality Thin Section and are due in lab on Jan. 29.
3. Computer drafted measured section due in class Feb. 14.
4. Petrographic description, photomicrographs, and classification of research project samples due in lab April 3.
4. Written description and interpretation of lithofacies in the form of a research paper. The paper with other supporting materials (measured section and samples keyed to section) is due in my office by 5:00pm May 9, 2008. I will provide an outline of the paper format that I expect.