Granite Wash Play – Panhandle Texas and Western Oklahoma

Joan Gawloski *Midland College*

The Granite Wash Play in the panhandle of Texas and western Oklahoma is a result of weathering of granitic rocks from the Wichita – Amarillo Uplift to the southwest during the late Paleozoic Ouachita Orogeny.

The reservoir is primarily stacked, discontinuous, fining upward, 100 to 200 foot packages of conglomerates, sandstones and siltstones deposited as fan deltas and turbidites. Core analysis from three wells in the play show porosity ranges from <1% to 15% with an average of 8%. Permeability ranges from <.01md to >100md, but is typically <5md. X-ray diffraction data indicates the average mineralogy of the reservoir to be 30% quartz, 30% plagioclase and 20% clay and 20% K feldspar.

The Granite Wash Play produces from depths ranging from 11,000 to 15,000 feet. The reservoir covers approximately 500 square miles and has produced over 3.7 TCFG and 126MMBO from over 4000 wells.