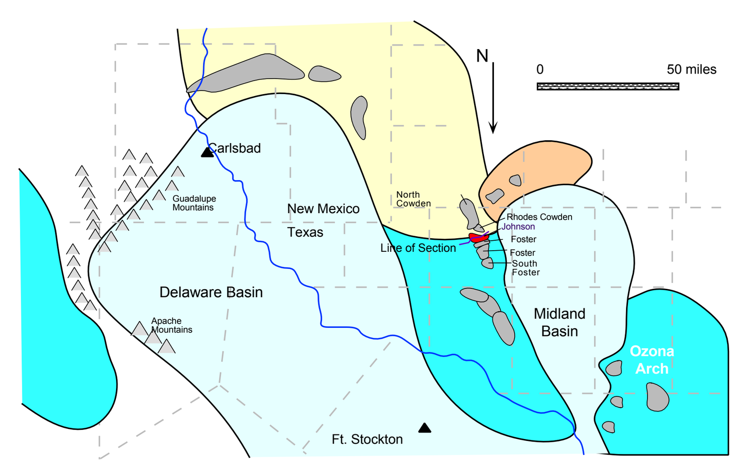
REGIONAL CROSS-SECTION OF MIDDLE PERMIAN STRATIGRAPHY

JOHNSON GRAYBURG FIELD AREA

LOCATION OF WELL FIELDS, JOHNSON FIELD



EXPLANATION

Queen Fm.		Inner-ramp mixed clastic-carbonate-anhydrite cycles of Queen Formation
Grayburg Fm.		Inner-ramp to ramp-crest siliciclastic-rich tidal flat cycles
		Inner-ramp-crest carbonate-dominated fenestral tidal flat and associated peritidal facies
		Outer-ramp-crest peloid packstones and grain-dominated packstone with lesser ooid grainstone
		Outer-ramp fusulinid-peloid wackestone and packstone
San Andres Fm. and Equivalents		Inner-ramp to ramp-crest siliciclastic-rich tidal flat cycles
		Undifferentiated inner-ramp, ramp-crest, and outer-ramp (peloidal, oolitic, skeletal pkstn-gnstn, fusulinid-peloid pkstn.)
		Distal-outer-ramp cherty dolomudstones (equivalent to upper portion of Cutoff Fm and equivalent San Andres Fm. (Guadalupian 1-12 HFS)
		Distal outer ramp/slope dolomitic sandstone
		Organic-rich shale (McKnight unit) equivalent to lower Cutoff Fm. of Guadalupe Mountain outcrops
		Open marine bioclastic packstone, common fusulinids (Leonardian 8 HFS of Guadalupe Mts.).
		Open marine bioclastic packstone, fusulinid-poor (Leonardian 7 HFS of Guadalupe Mts.).
Glorieta		Inner ramp to ramp-crest siliciclastic-rich tidal flat cycles