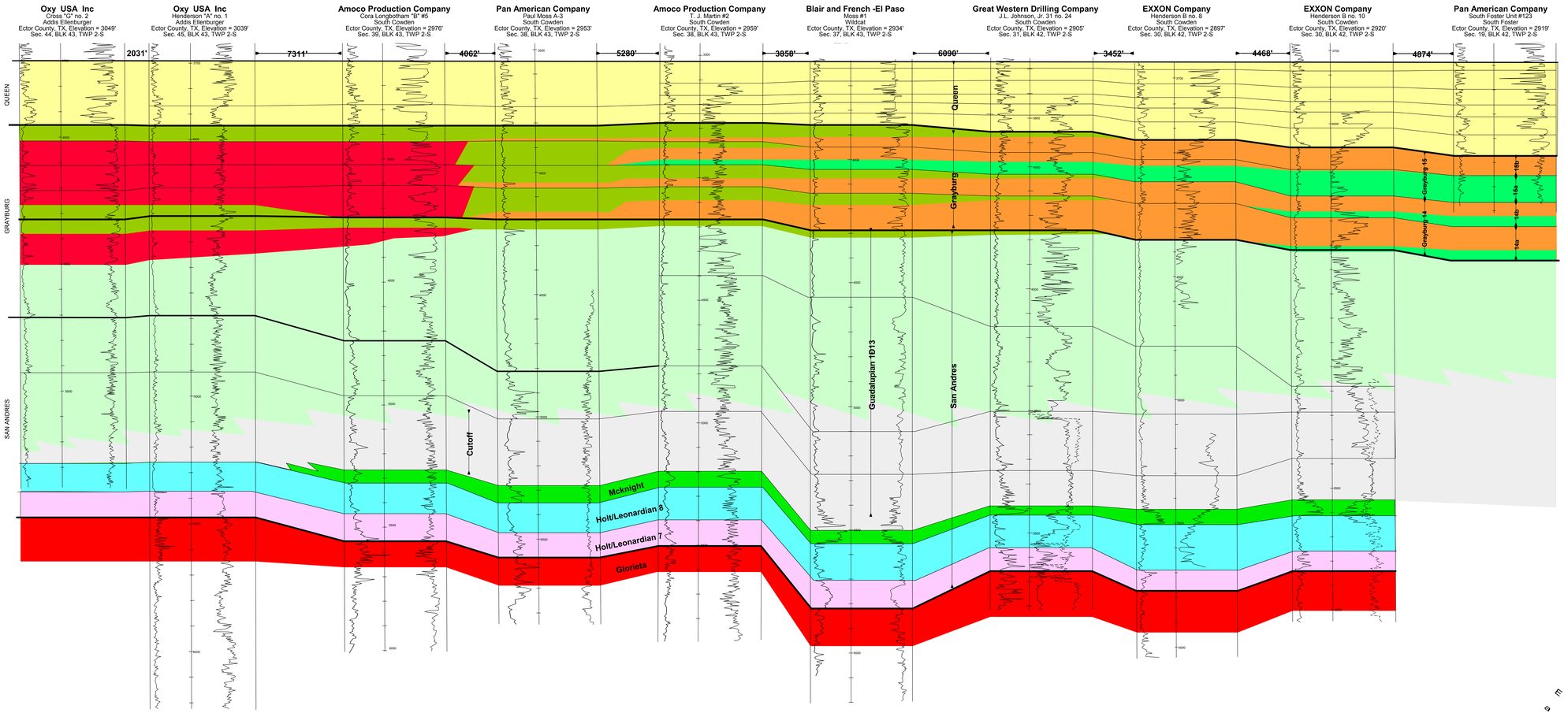
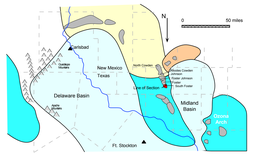
REGIONAL CROSS-SECTION OF MIDDLE PERMIAN STRATIGRAPHY

SOUTH FOSTER GRAYBURG FIELD AREA



LOCATION OF WELLS AND FIELDS, JOHNSON FIELD AREA



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