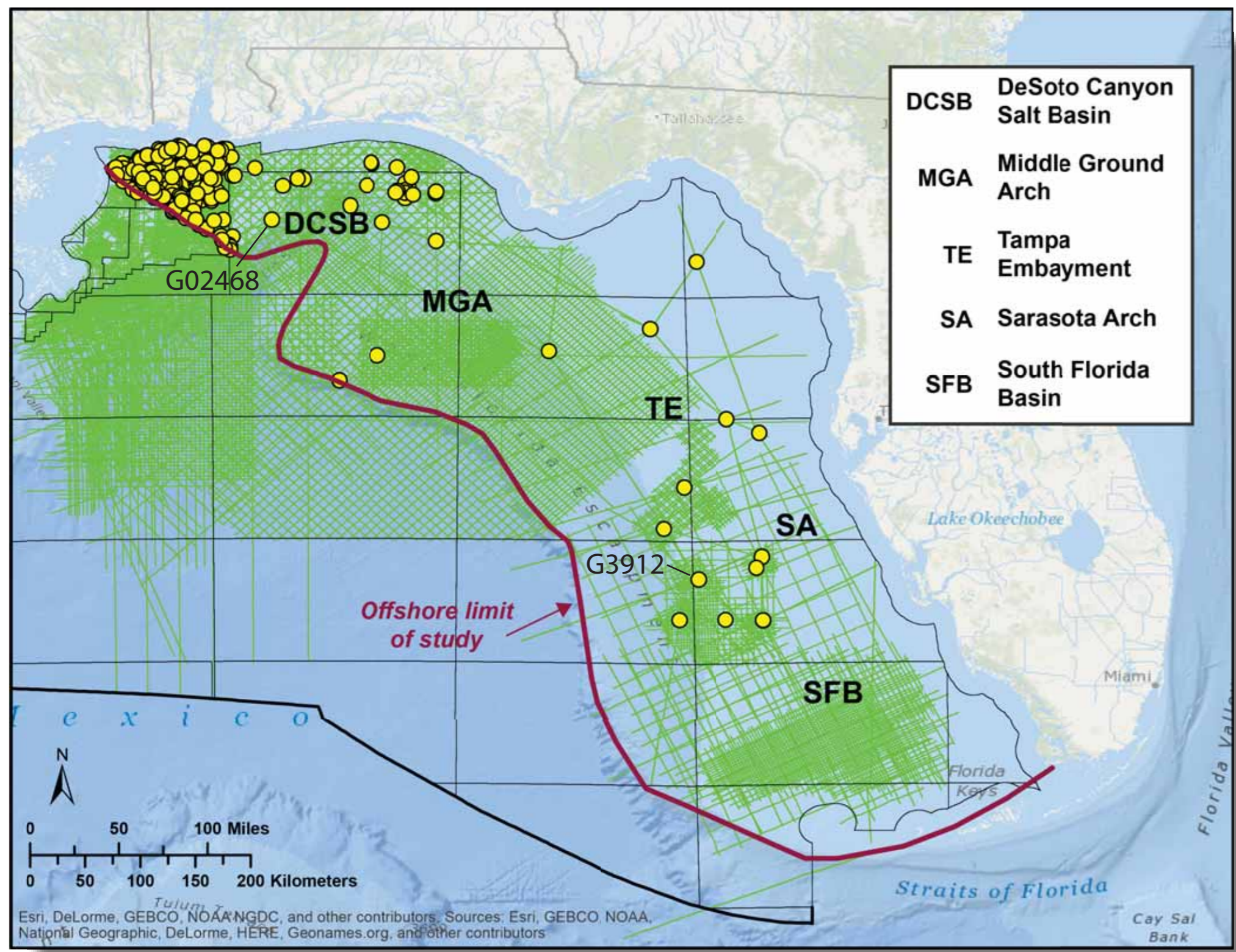


CO₂ Storage Potential of the MAFLA SHELF, Eastern Gulf of Mexico

Jack C. Pashin, Jingyao Meng, Avinash Chandra, and Paul Charbonneau, Oklahoma State University

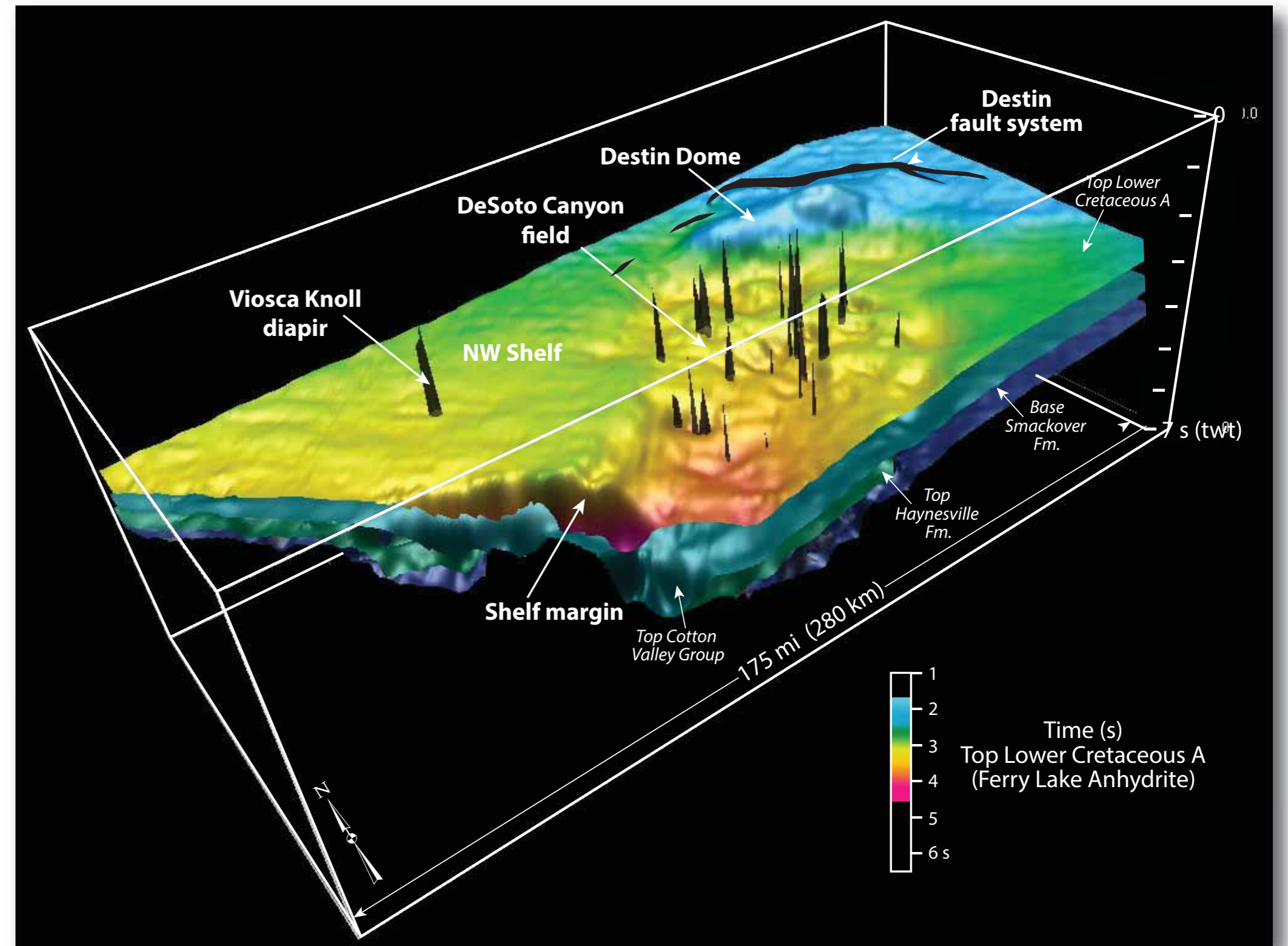
Denise J. Hills, Guohai Jin, and Marcella R. McIntyre, Geological Survey of Alabama; Richard A. Esposito, Southern Company

STUDY AREA



Map showing location, well control, and 2-D seismic control in the MAFLA shelf region.

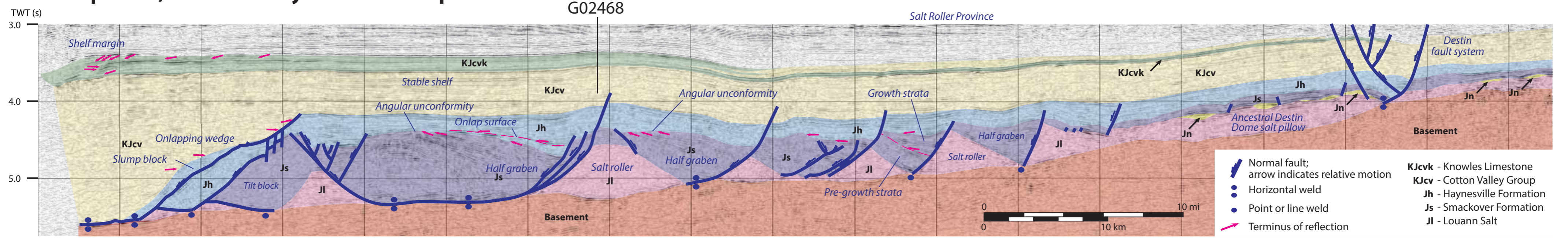
3D MODEL, DESOTO CANYON SALT BASIN



3D visualization of the top of the Ferry Lake Anhydrite showing major structural features of the DeSoto Canyon Salt Basin (after Pashin et al., 2016).

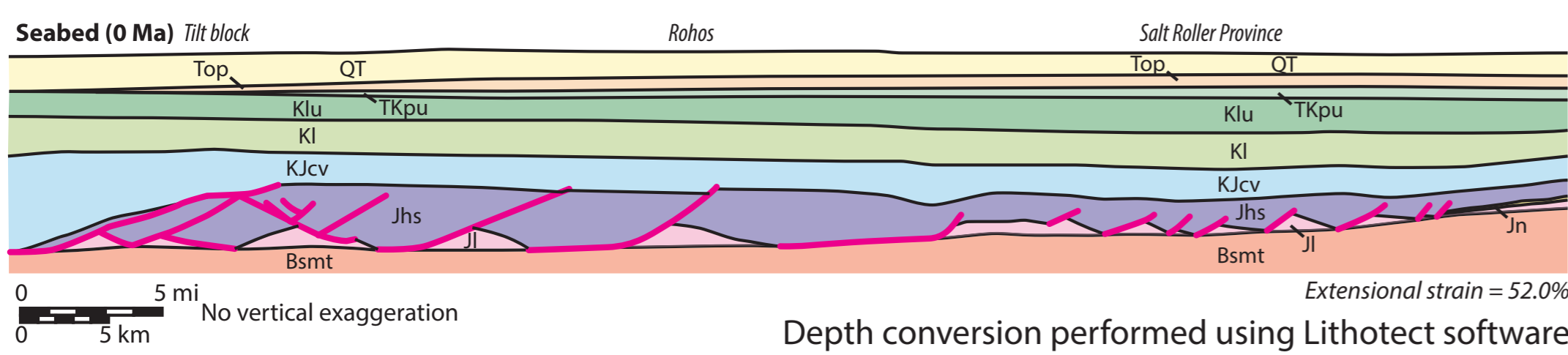
STRUCTURAL STYLE

Seismic profile, DeSoto Canyon salt roller province



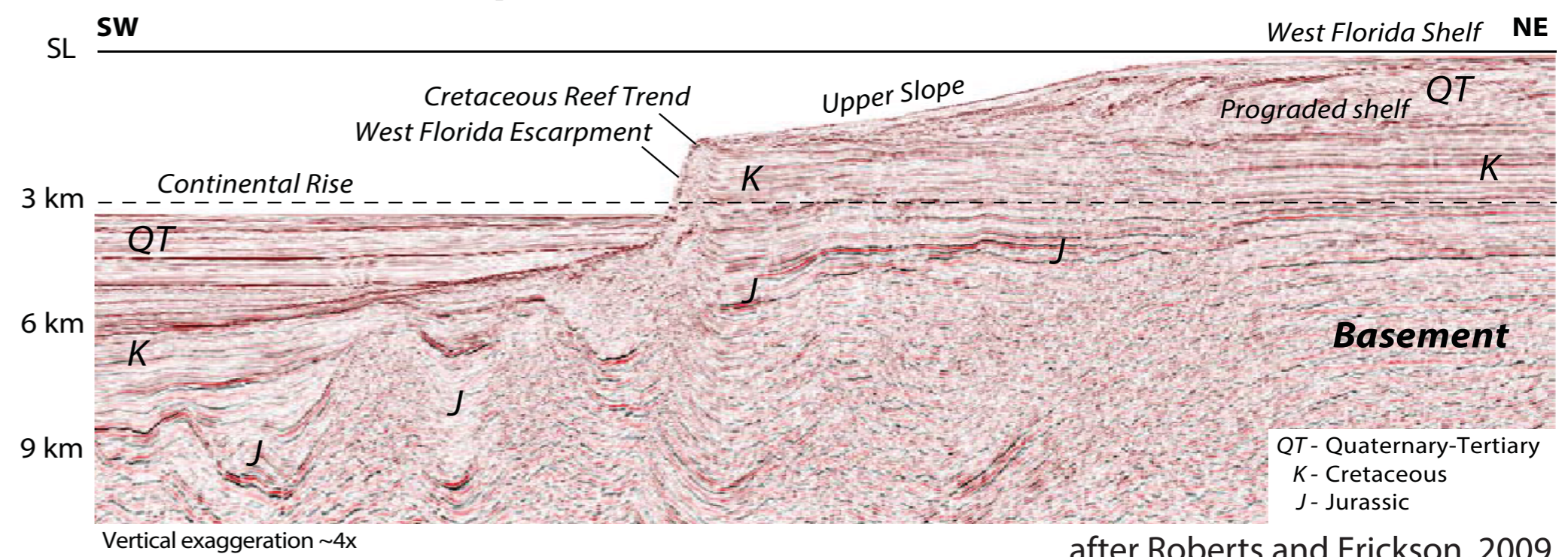
after Pashin et al., 2016

Structural cross section, DeSoto Canyon salt roller province



Depth conversion performed using Lithotect software

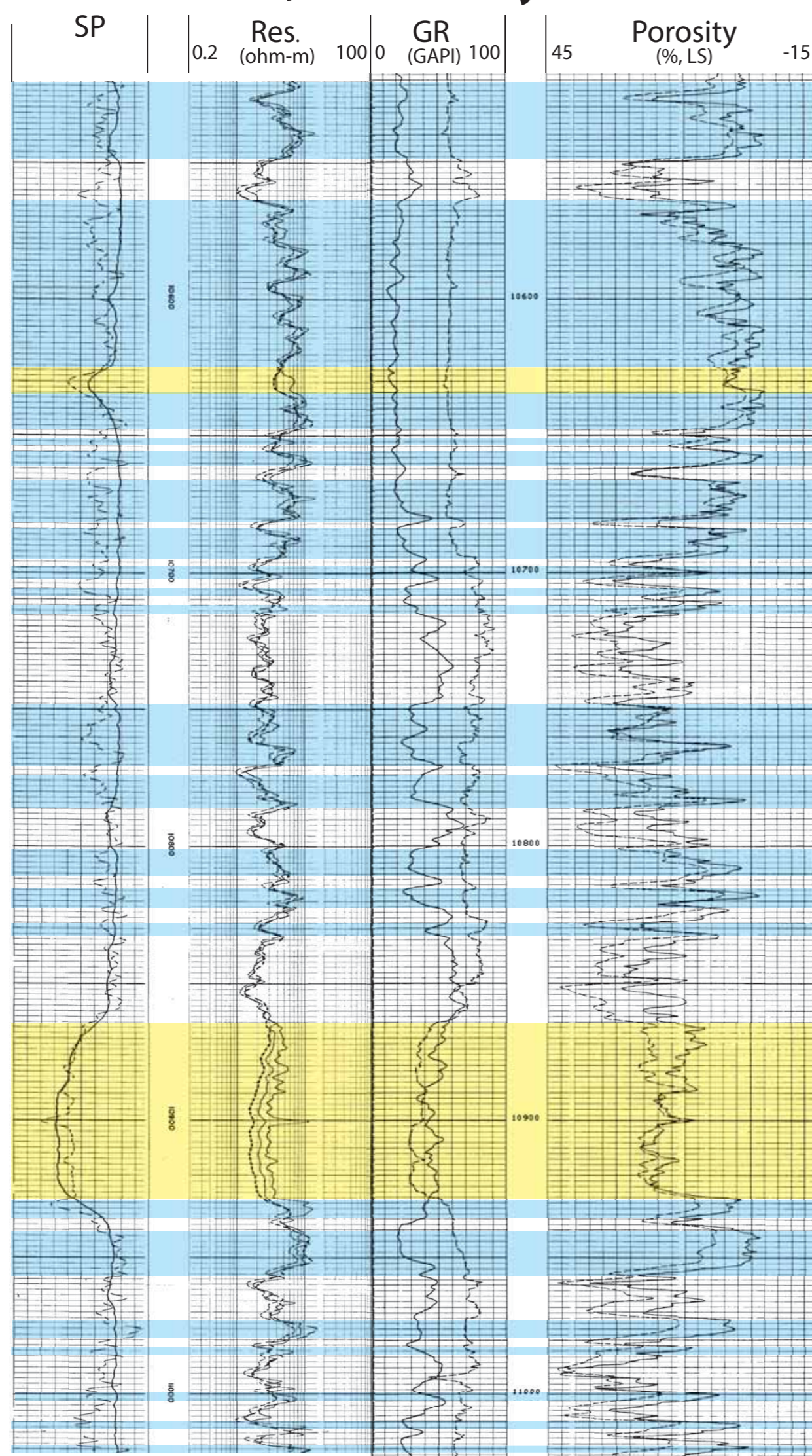
West Florida seismic profile



after Roberts and Erickson, 2009

SELECTED CANDIDATE RESERVOIRS AND SEALS

Well G02468, Desoto Canyon Salt Basin



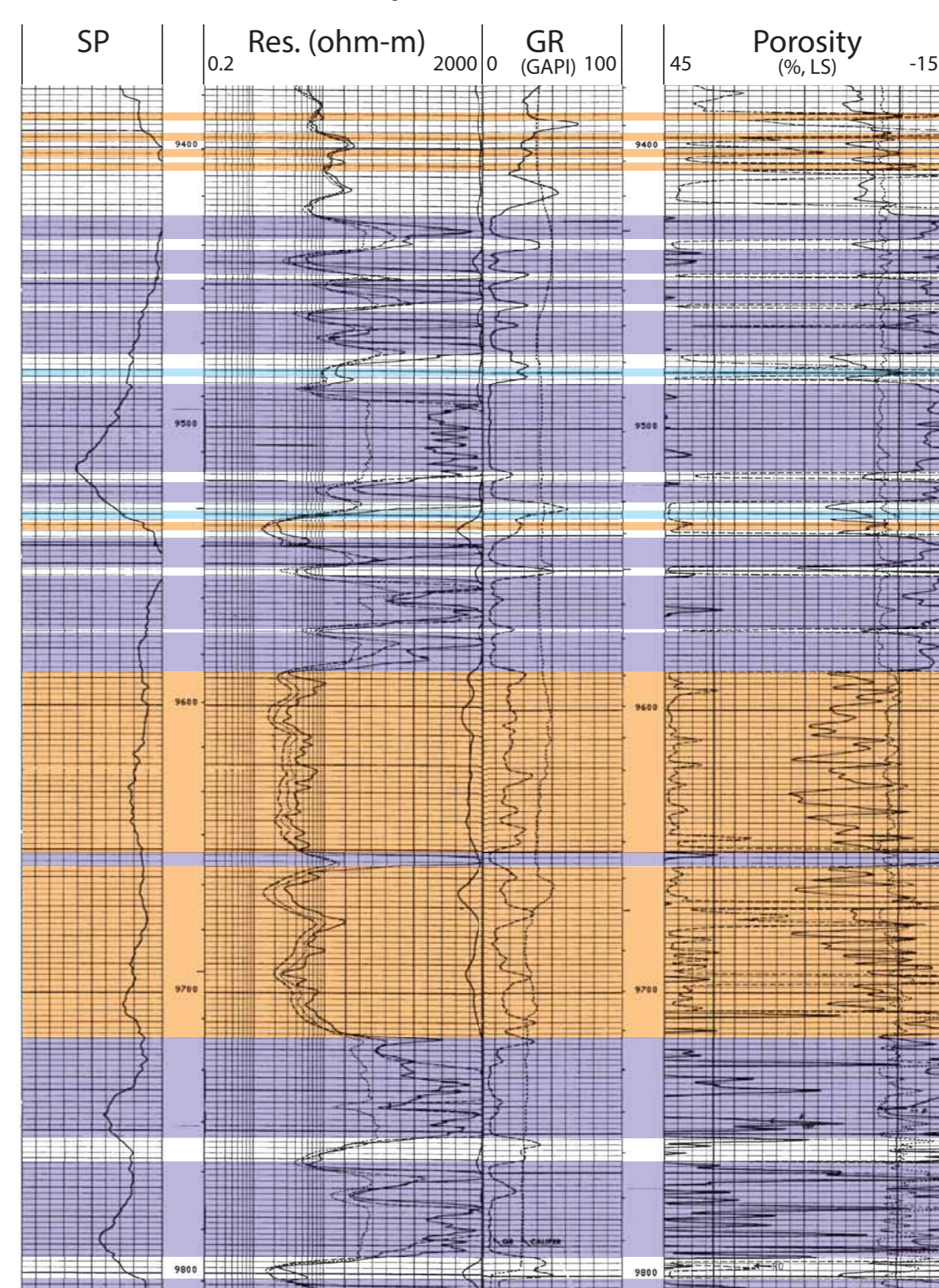
Paluxy Formation

Major prospects in sandstone of Tuscaloosa Group and Paluxy Fm.

Topseal

Reservoir
Porosity locally >20%

Well G3912, West Florida Shelf



Punta Gorda Anhydrite

Topseal

Reservoir

Porosity locally >15%

Reservoir

Major prospects in porous dolomite associated with anhydrite intervals

Shale Sandstone Limestone Dolomite Anhydrite

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