Science Camp #170802.8

02-04 August 2016 @ the Condo, the Nelson Cabin, and surrounding area

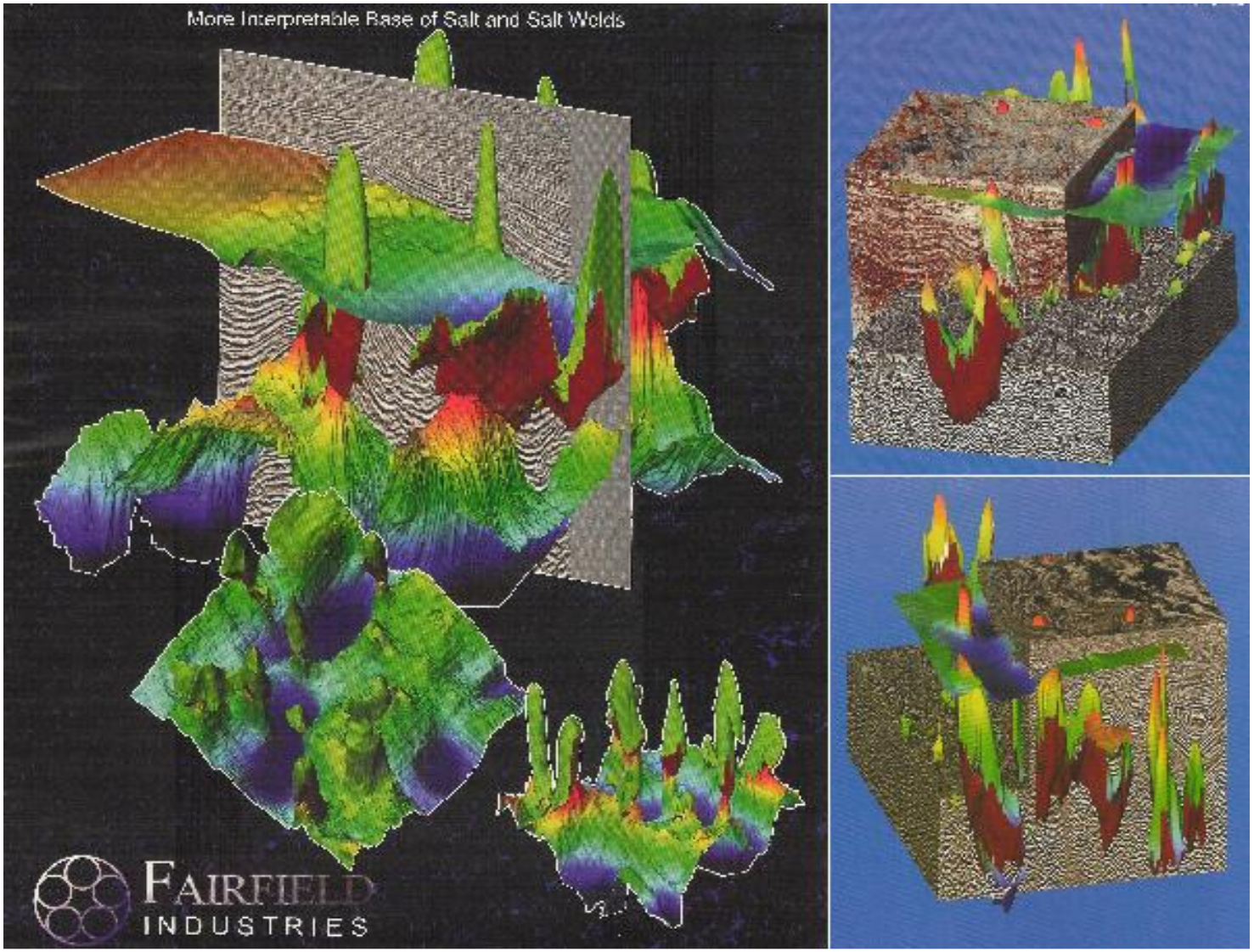
Advisors

H. Roice Nelson, Jr., Andrea S. Nelson,
Paul F. Nelson, Benjamin B. Nelson

Attendees

Ethan E. Nelson, Grant M. Nelson, Colby C. Wright, Taylor R. Wright, Ella D. Nelson, Halle N. Wright, Bobbie Sophia Waldron, Dallin Spencer Nelson, Avalyn Joyce Wright, Rachel Lee, & Ian Lee

Salt Domes in the Gulf Coast Fold



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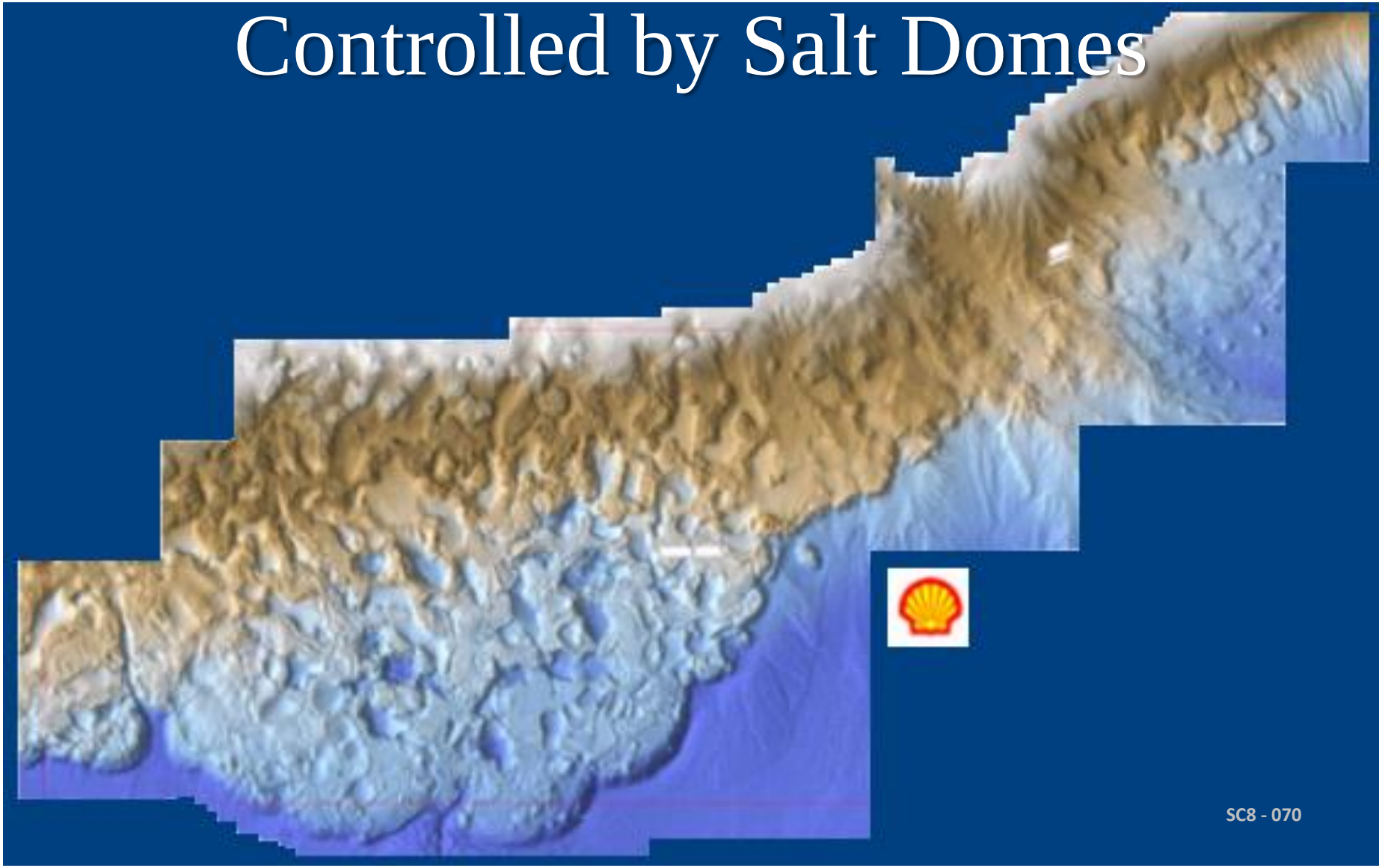
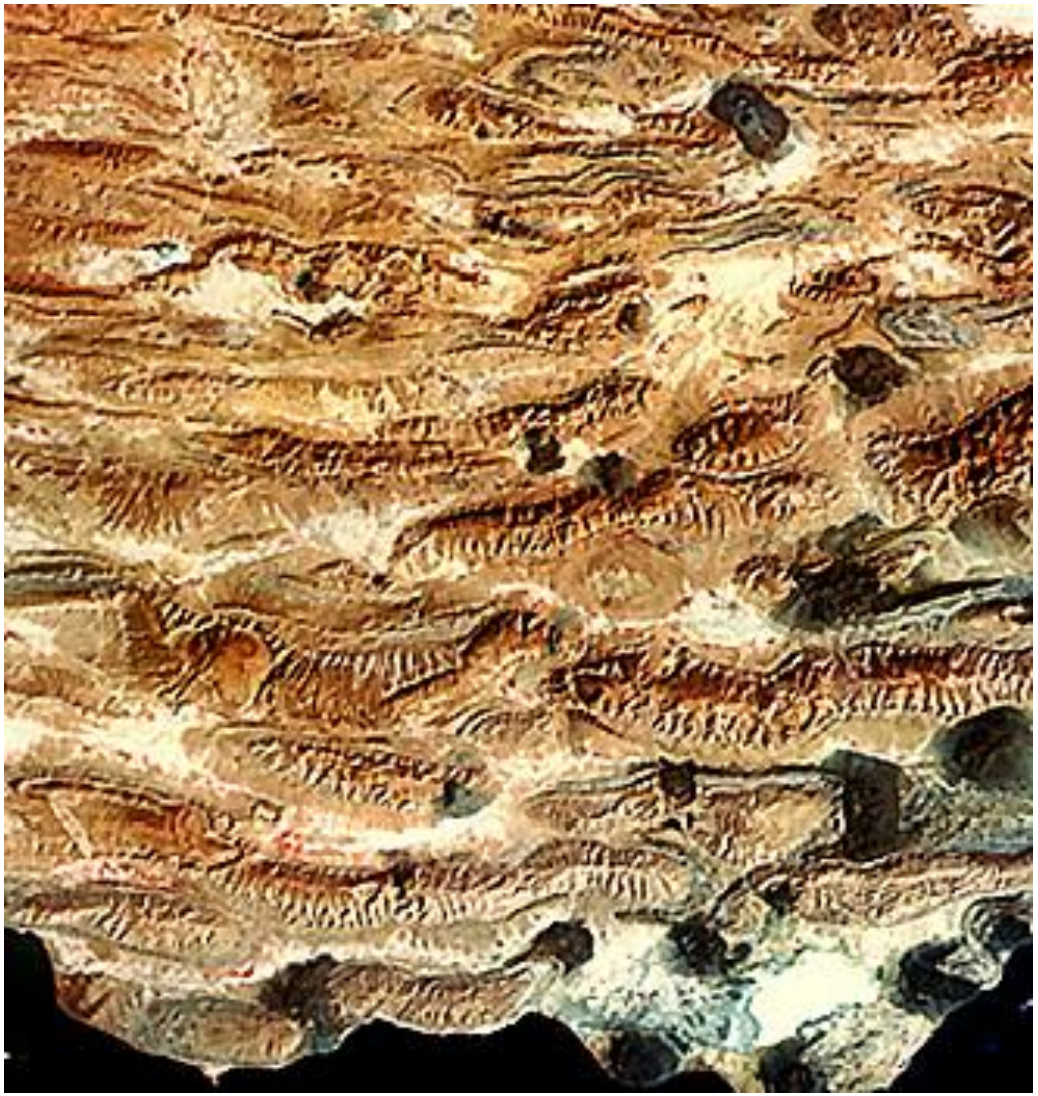
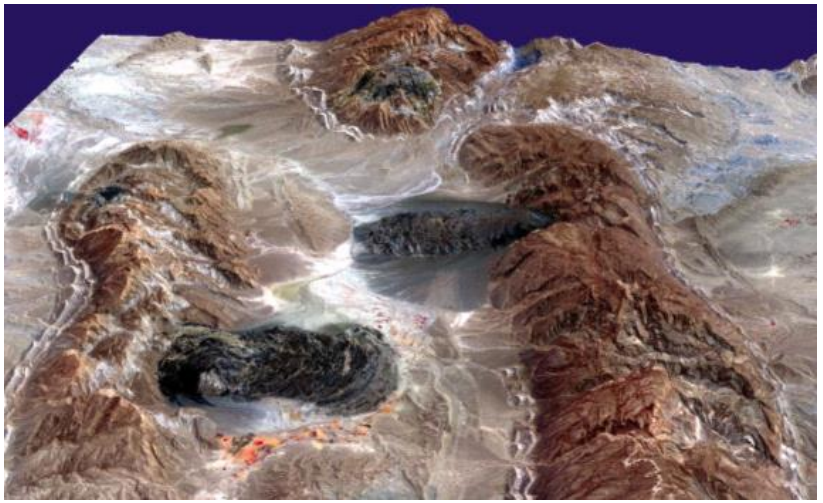
http://www.walden3d.com/photos/Grandkids_Science_Camps/170802-04_Science_Camp/6_Geology-structure.pdf

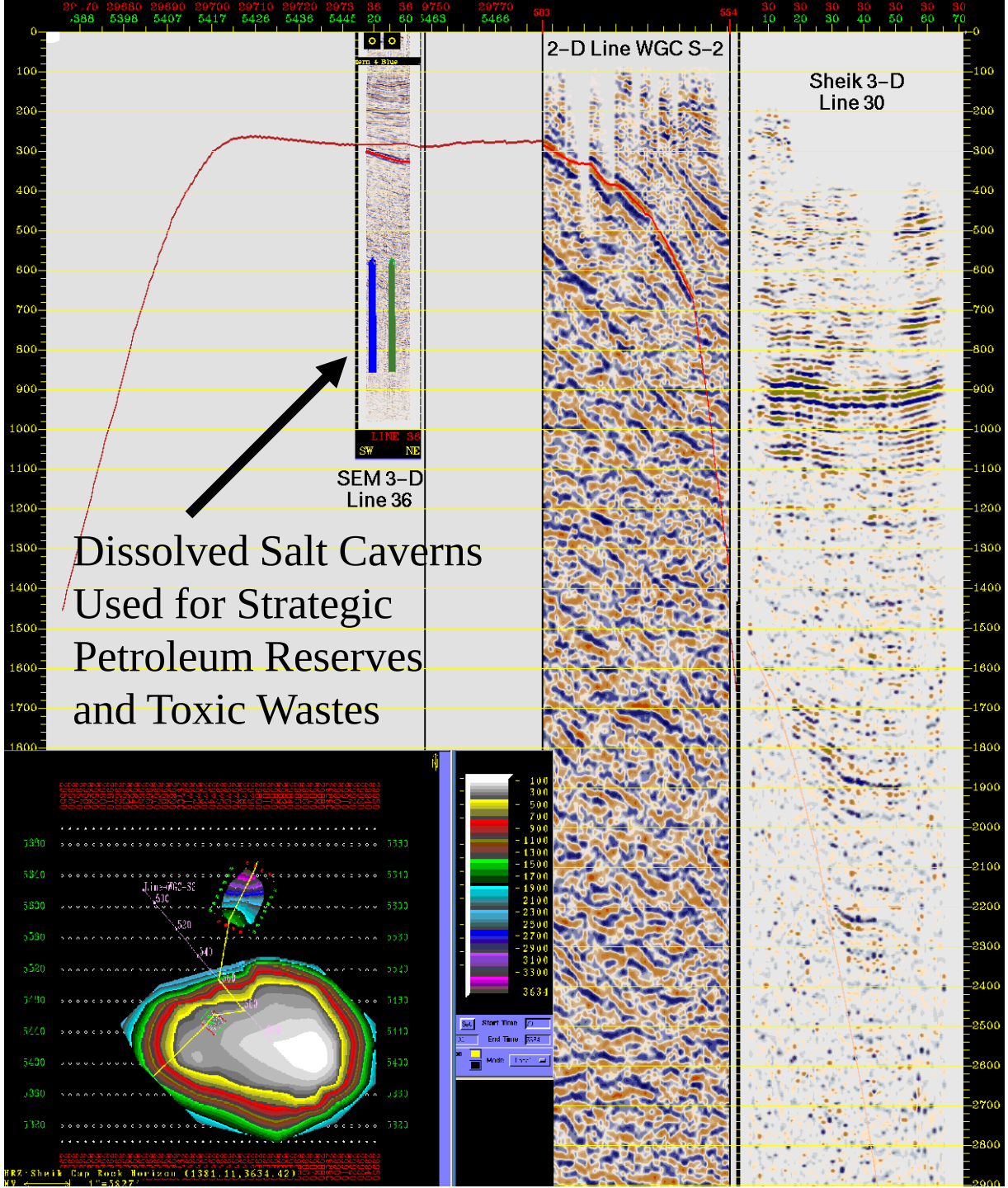
Bathymetry Gulf of Mexico



Topography Southern Iran Controlled by Salt Domes



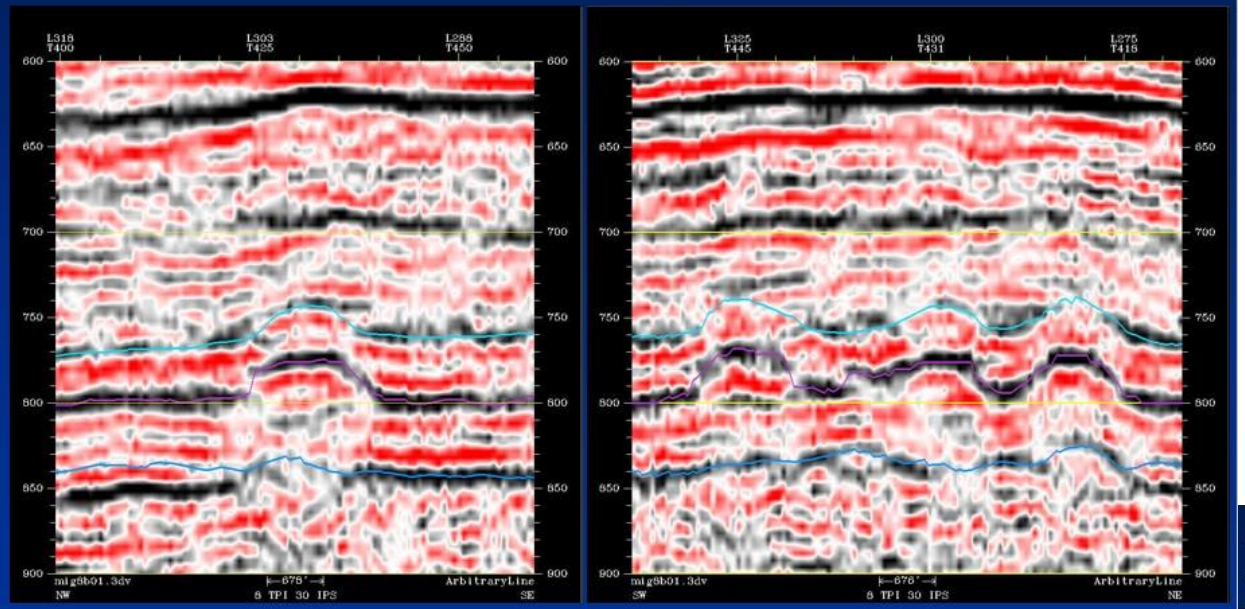




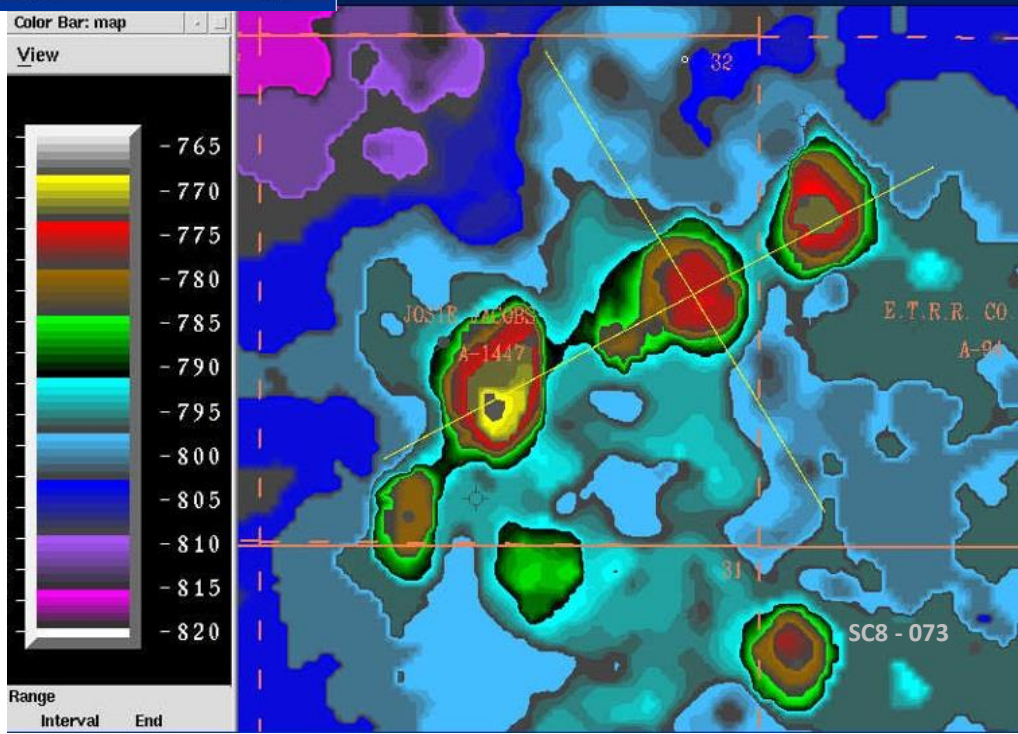
Cross-Section Through The Boling Salt Dome south of Katy, Texas

Reefs Also Impact Horizontal Layering

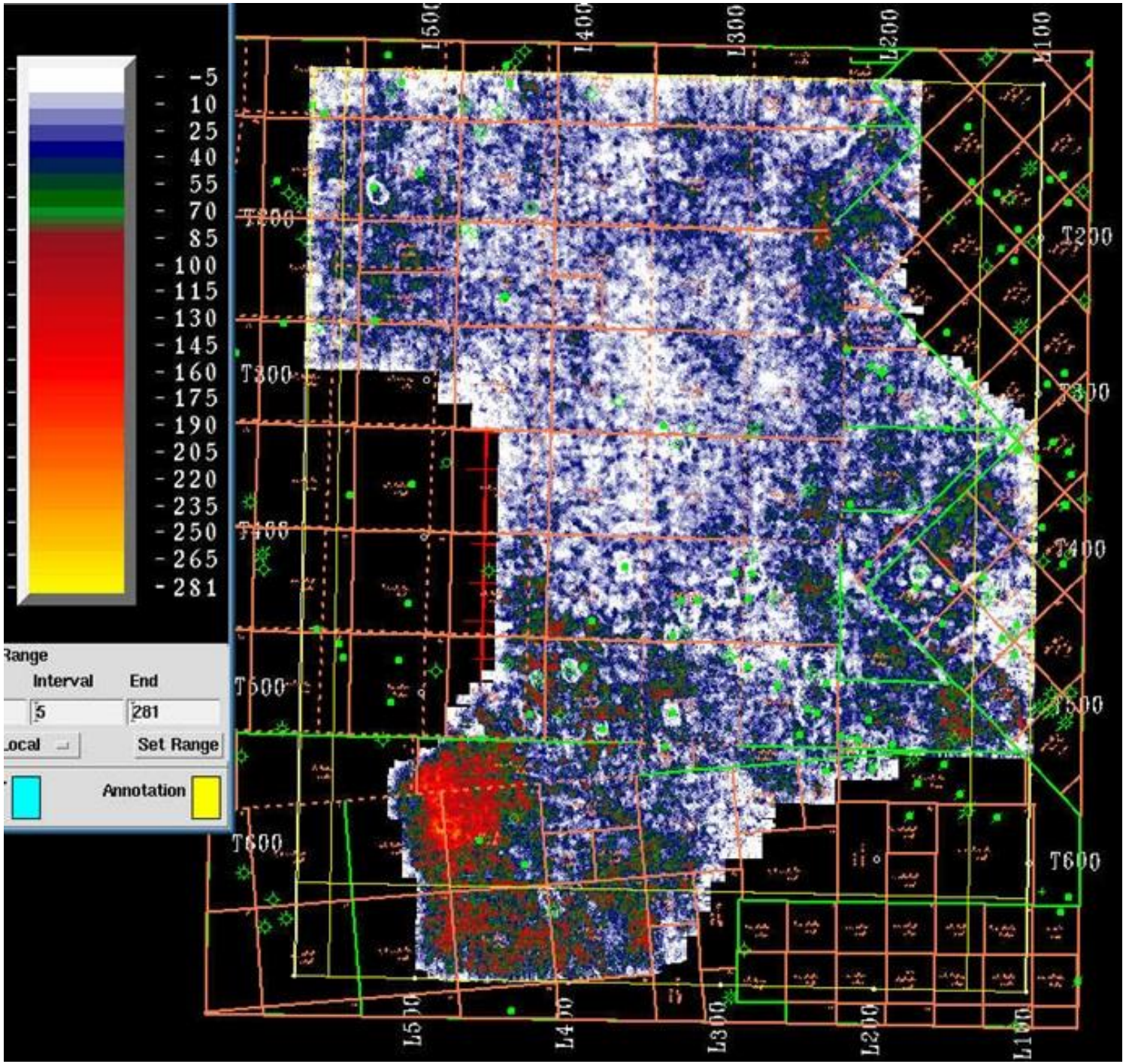
Seismic Control



Map Control

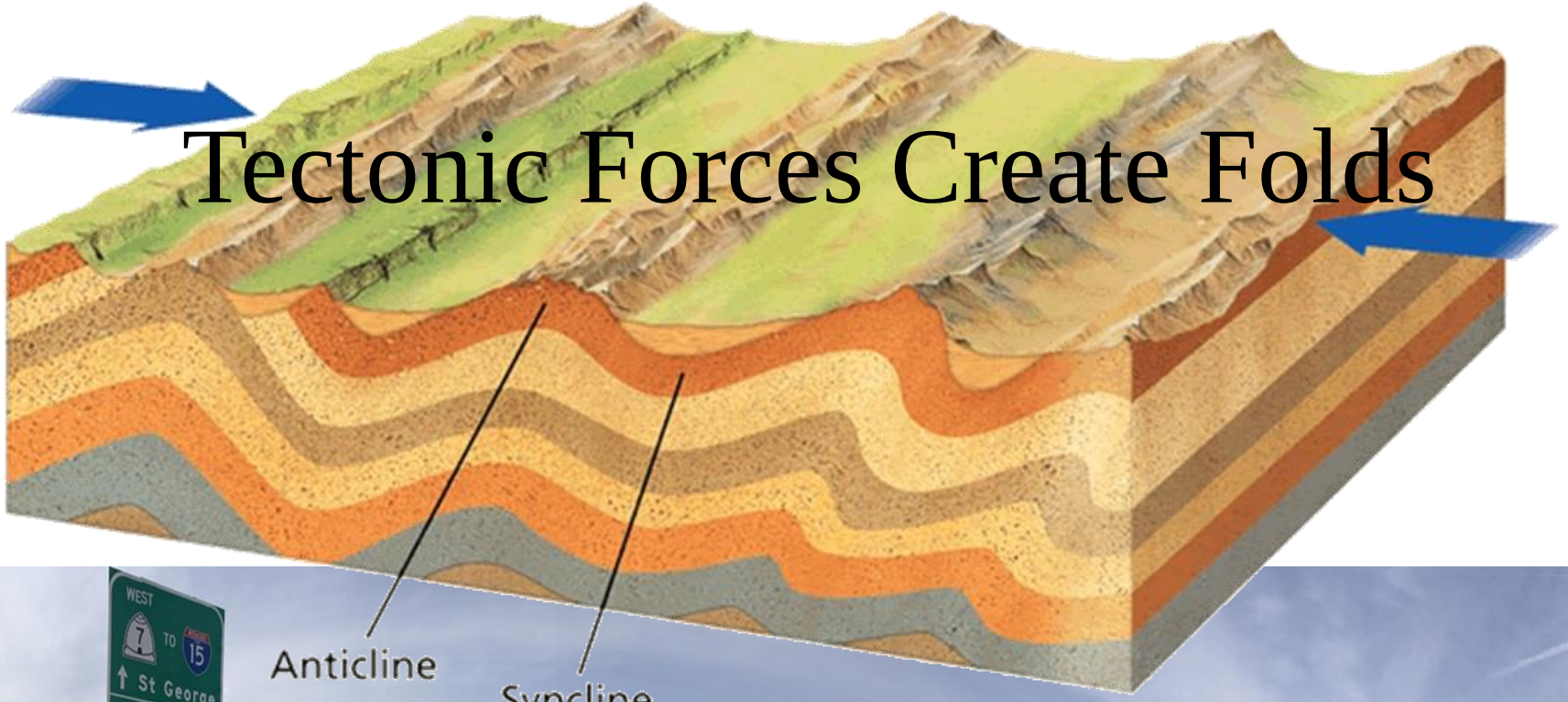


Project in Shackelford County, Texas where the Fandango is Located

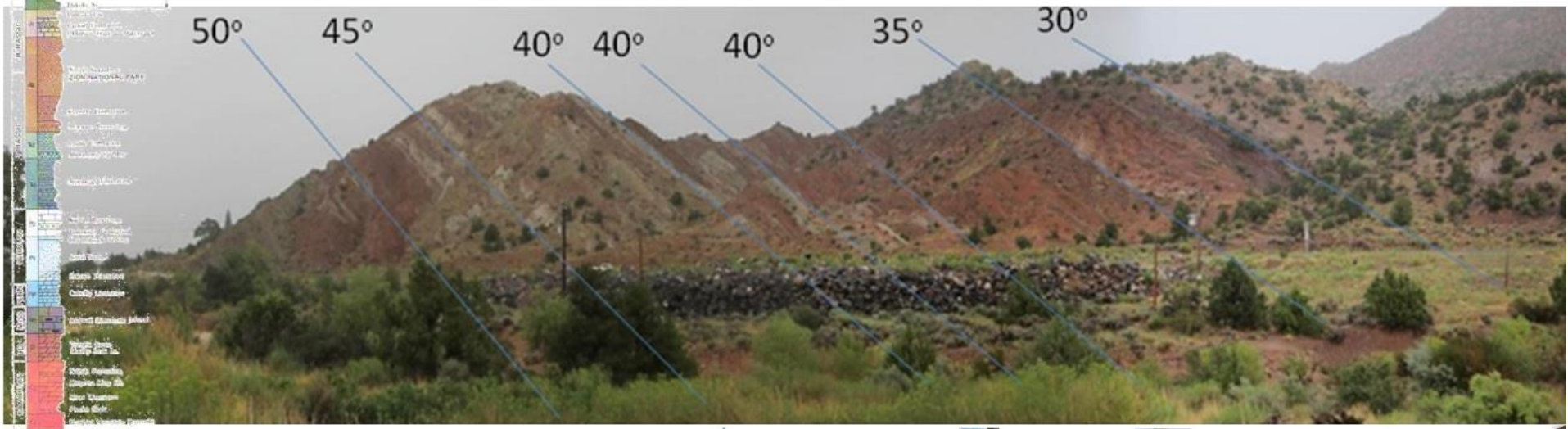


3-D Seismic Slice Shows Production Halos and Rubble Beds

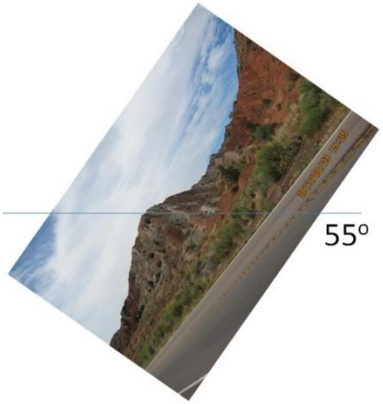
Tectonic Forces Create Folds

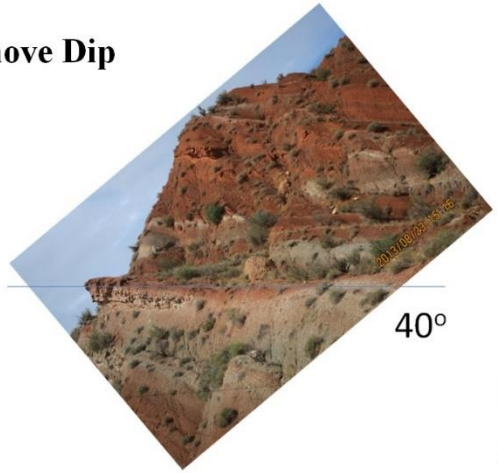


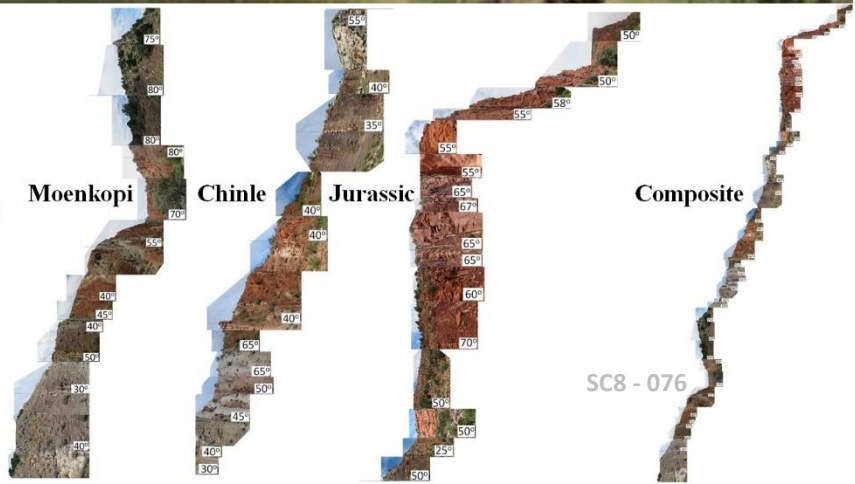
Cedar Canyon – Some of the Best Examples Worldwide of Folding and Faulting



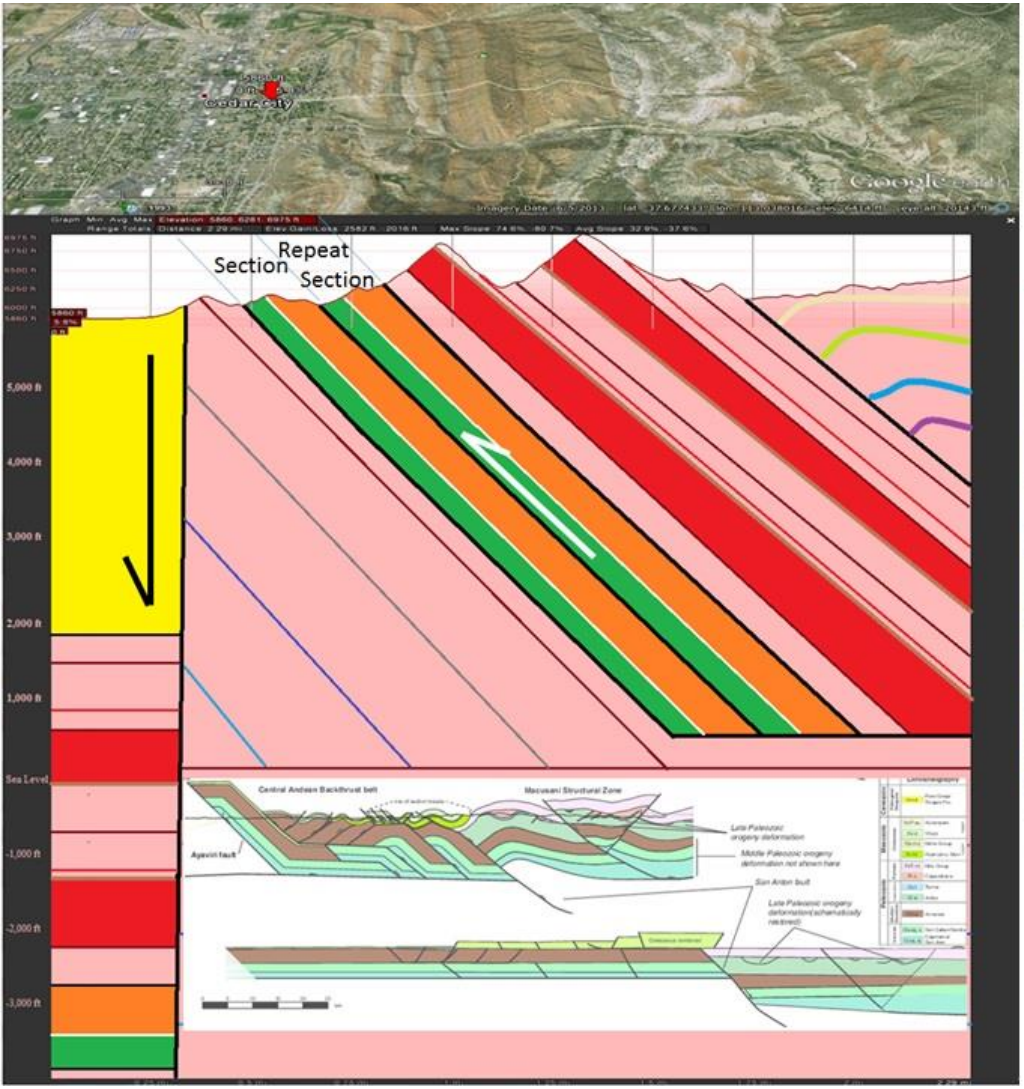
Rotating Photos to Remove Dip







Classic Back Thrust Example



Cedar's Red Hill

excellent example of backthrust

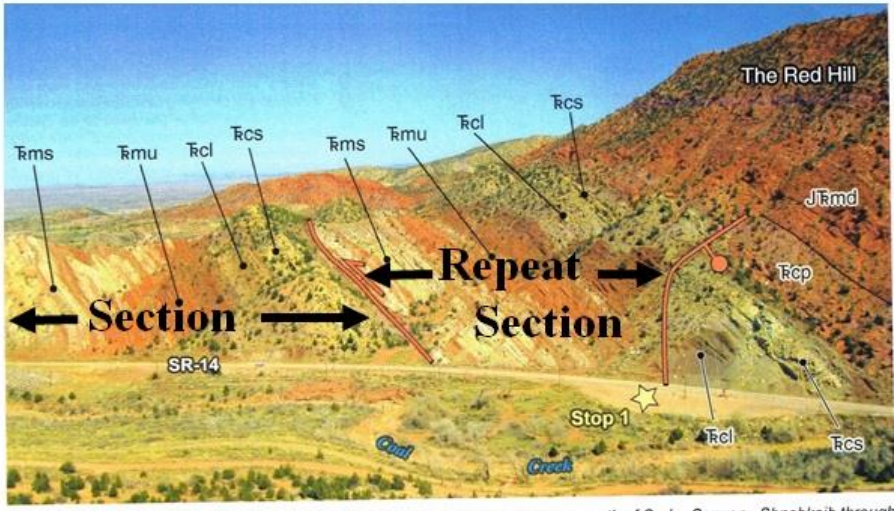
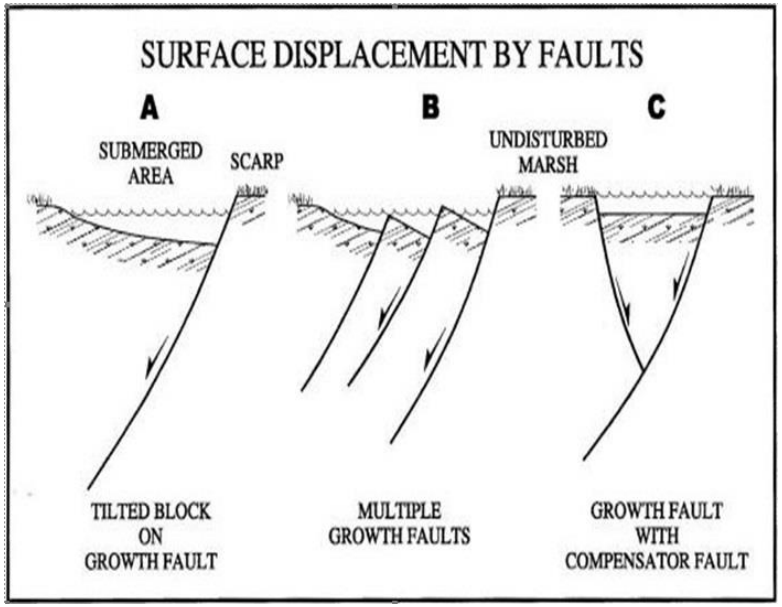


Figure 2. North-directed view of east-dipping Triassic and Jurassic strata near mouth of Cedar Canyon. Shnabkaib through Shinarump strata are repeated along a thrust fault. Bar and ball on downthrown side of normal fault. Trms =Shnabkaib Member of the Moenkopi Formation, Trmu =upper red member of the Moenkopi Formation, Trcl =lower member of the Chinle Formation, Trcs =Shinarump Conglomerate Member of the Chinle Formation, Trcp =Petrified Forest Member of the Chinle Formation, JTrcs =Dinosaur Canyon Member of the Moenave Formation. Photo courtesy of Tyler Knudsen.

MacLean, J.S., Biek, R.F., and Huntoon, J.E., editors



Structural Traps Key to Traditional Oil & Gas Exploration

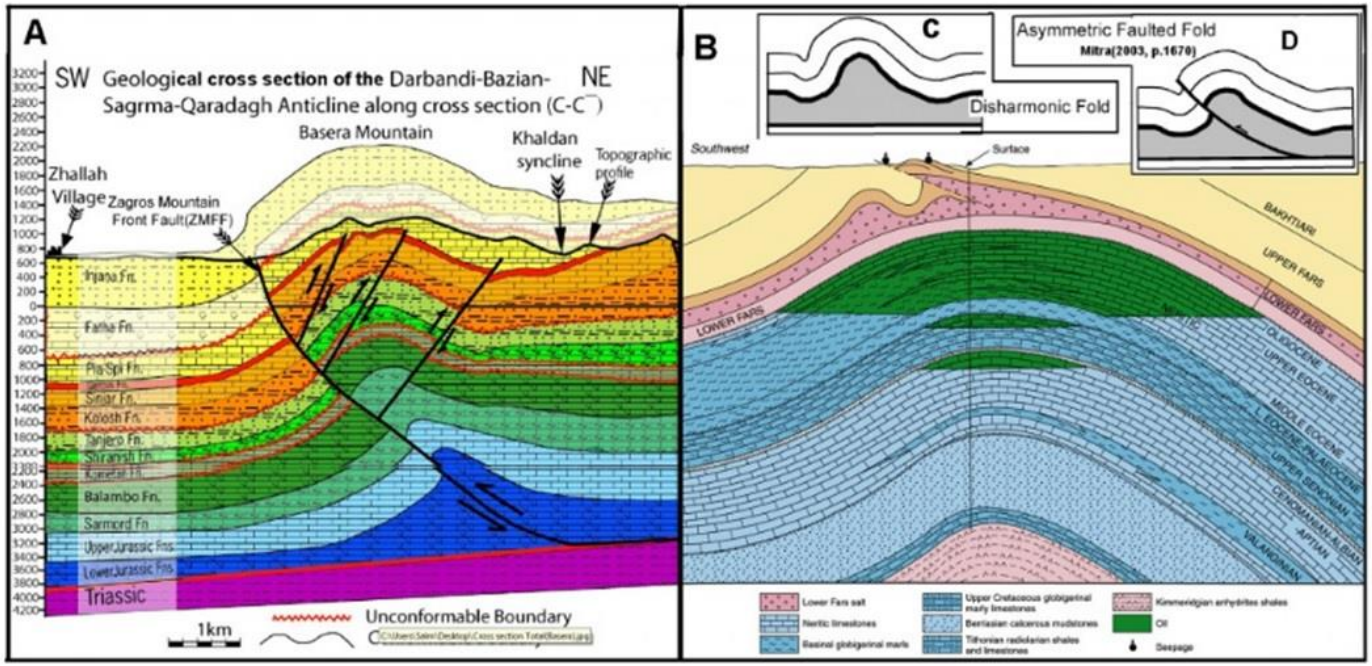
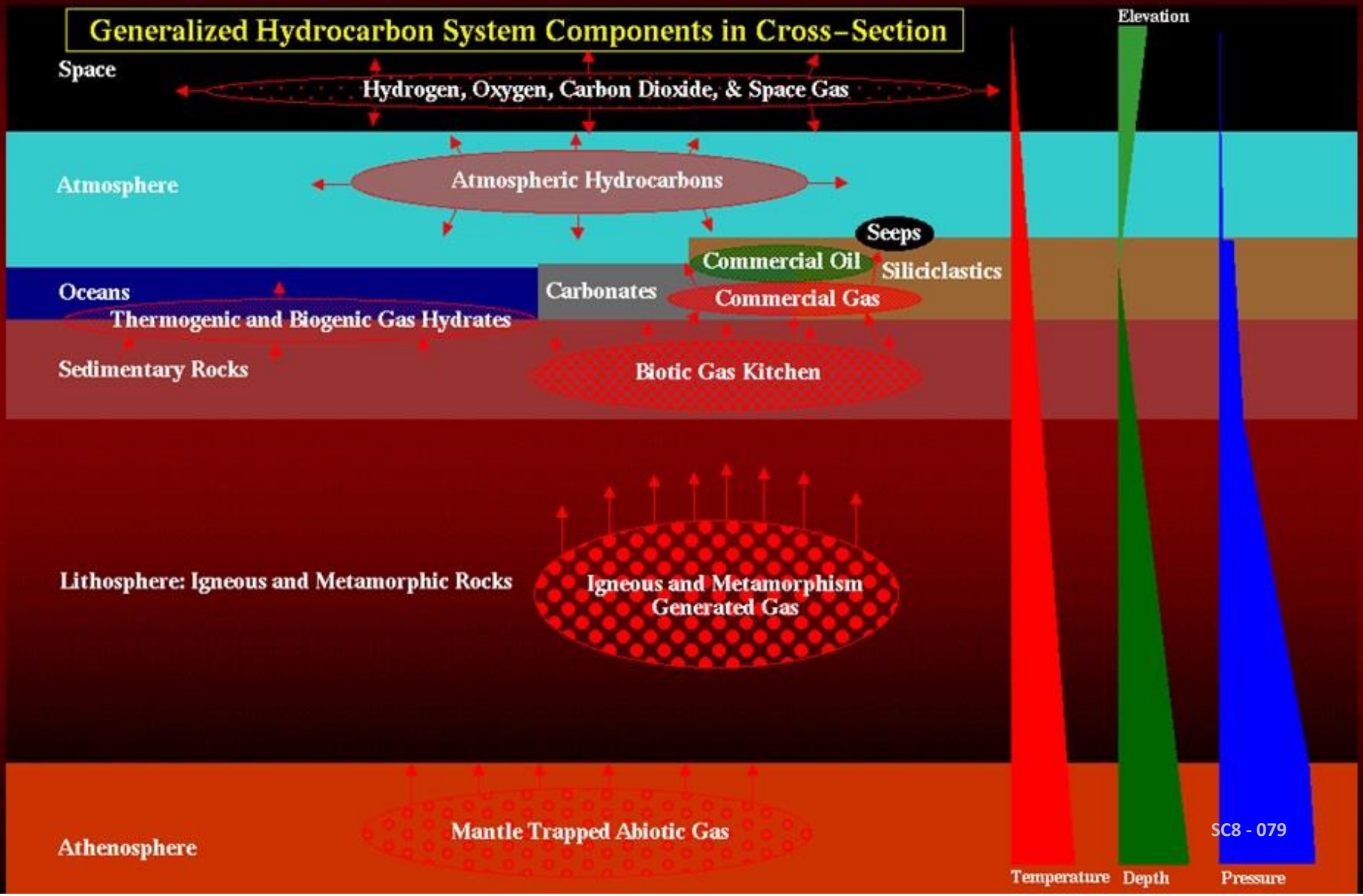


Figure 10. A) Geologic cross section of Sarma-Darbandi Bazian (Al-Hakari, 2011) and Omer et al. (2015) which assumed as fault propagation fault. B) Kirkuk anticline is detachment fold (disharmonic fold) formed by limb rotation not by Fault propagation fold. C) Disharmonic detachment fold (Mitra, 2003) which similar to Kirkuk anticline. D) Asymmetric faulted fold (Mira, 2003) which is similar to the faulted anticline near the crest of latter anticline

The Hydrocarbon Cycle



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Notes

2017 Science Camp

- What was best about 2017 Science Camp?
  - _____
  - _____
  - _____

- What would be your ideal 2018 Science Camp Theme?
  - _____
  - _____
  - _____