FACTORS AFFECTING TOC CONTENT




Minerals and Organic Content Concentrated in Styolites, Laminae and Pressure Seams During Pressure Solution After Burial / Diagenesis

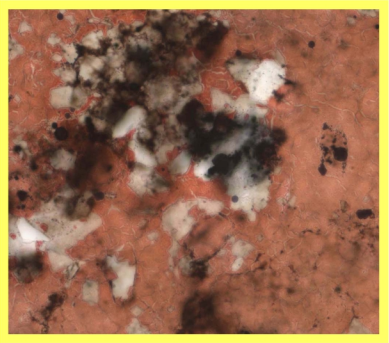
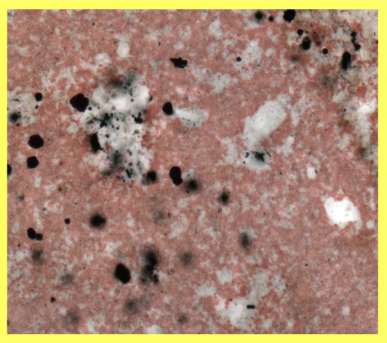
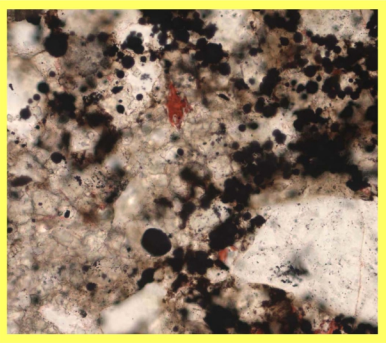
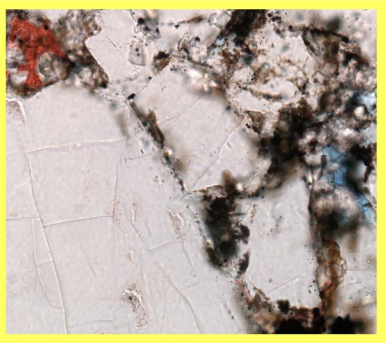
Mean TOC of 48 Styolite Samples: 10.3%; Maximum 63.3% (Sassen)

Thermal Maturity for BDL Oil Ranges from 0.55% to 1.5%; Liquid Hydrocarbon Destruction Beginning Above 1%

Deepest Oil Produced in Smackover Trend From Gulf Crest (West Chunchula) Field, Below 18,600' (55°, R_o 1.3, 325°F)




FACTORS AFFECTING TOC CONTENT

Mean TOC of 537 BDL Core Samples: 0.54% (Sassen & Moore)

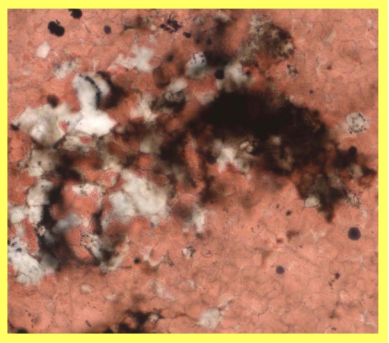
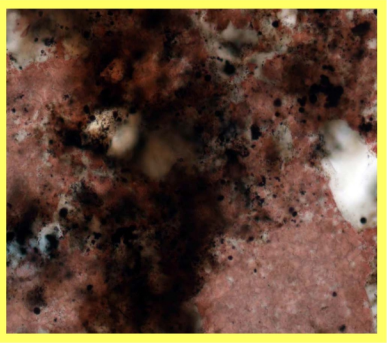
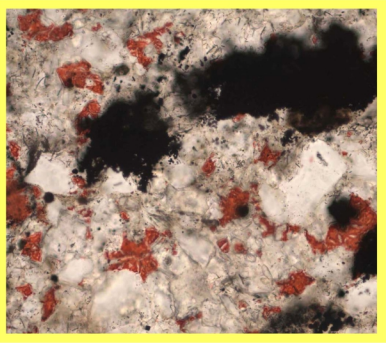
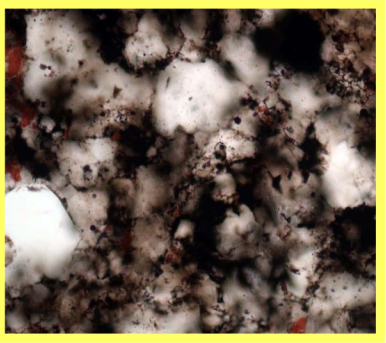
Mean TOC of BDL Cuttings Samples From 27 MS Trend Wells: 0.72%

Highest TOC's Associated with Laminated Siliceous BDL Mudstones

TOC Increases With Proximity to Ancestral Mississippi River

Kerogen – Type II Algal Origin (Except in Terrigenous Updip Areas)

Algal Blooms / Die-Offs Increased TOC in Siliceous BDL Mudstones

Photos Courtesy MS Office of Geology

VISION EXPLORATION