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COVER

Preserved cell wall structures are apparent in a cross section of silicified wood (approximately 90 percent silicon dioxide) 200 million years old from the Petrified Forest National Park, Arizona. Phenolic and alkyl-substituted aromatic compounds extracted from these fossil woods attest to the stability of lignin-derived materials in the environment (about × 325). See page 1054. [Anne C. Sigleo, University of Maryland, College Park]