

3D LASER SCANNING OF QUARRY EXPOSURES IN COASTAL PLAIN STRATA

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Terrestrial laser scanning is a new technology which can be used to make three dimensional interpretations of geologic outcrops. We used a Leica C-10 HDS scanner to identify contacts between stratigraphic units at the CEMEX limestone quarry near Perry, Georgia. The upper highwall had approximately 25 meters of the Twiggs Clay (Fullers' Earth) overlying limestone from the Tivola tongue of the Ocala formation. In the lower highwall, almost the entire thickness of the Tivola limestone above the Clinchfield sand was present. Preliminary results from the 3D laser scanning suggest that limestone is particularly well preserved beneath the ridges in the quarry area where there are thick deposits of the Twiggs Clay.