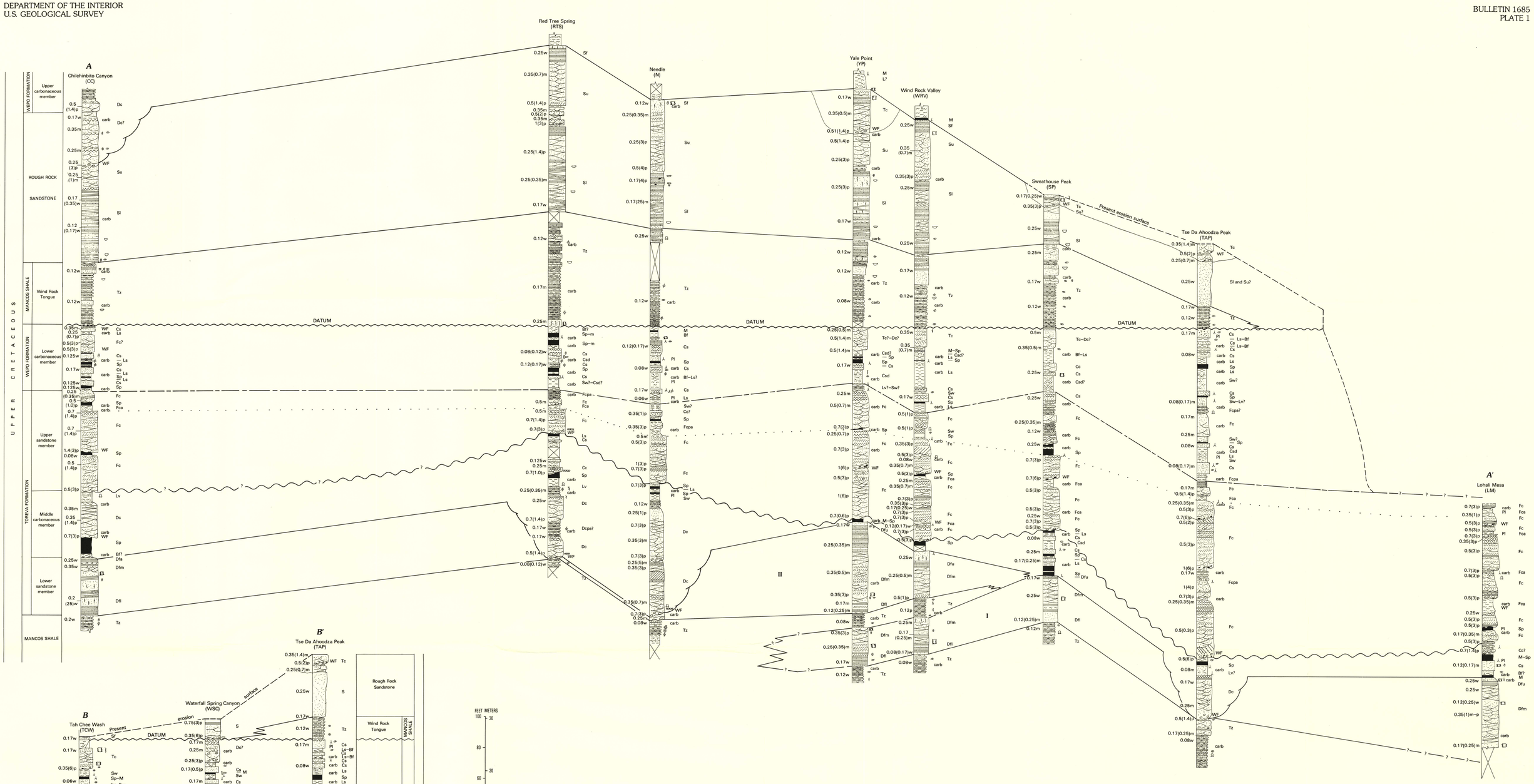

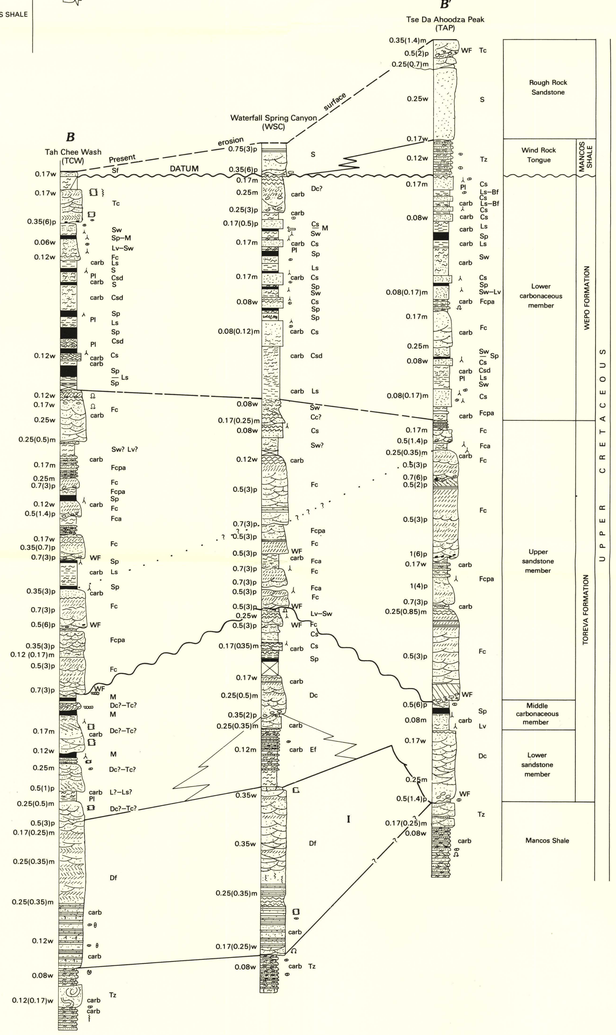

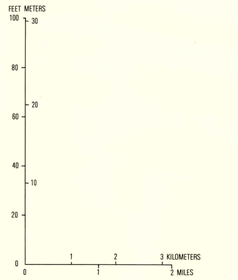

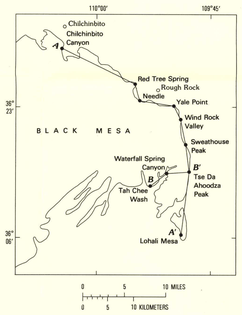

Locations of measured sections and lines of cross section.

E X P L A N A T I O N

LITHOLOGY

- 0.7(1.4)p — Sandstone; average and maximum grain sizes (mm) and sorting w=well, m=moderate, and p=poor
- Siltstone
- Mudstone
- Coal
- Calcareous sandstone
- Covered
- Partially covered

SEDIMENTARY STRUCTURES AND INTERNAL FEATURES

- Trough cross-stratification
- Wedge planar cross-stratification
- Very low-angle cross stratification
- Horizontal bedding
- Tabular planar cross-stratification
- Ripple stratification
- Climbing ripples
- Ball and pillow structures
- Contorted bedding
- Root casts
- Rip-up clasts
- Pebbles
- Bioturbated
- *Planolites* burrows
- *Ophiomorpha* burrows
- *Thalassinoides* burrows
- *Rhizocorallium* burrows
- Shark teeth
- Pelecypod fragments
- Bored logs
- carb — Carbonaceous material
- WF — Wood fragments
- Pl — Plant impressions

CONTACTS

- Sharp contacts
- Gradational contact
- Scour contact
- Transgressive unconformity
- Present erosion surface
- Separates dominantly fine grained meandering river deposits from underlaying coarse-grained meandering and braided river deposits
- Contacts between genetic units

DEPOSITIONAL ENVIRONMENTS

Deltic environments

- Bf — Bay fill
- Ef — Embayment fill
- Dfu — Upper delta front
- Dfm — Middle delta front
- Dfl — Lower delta front
- Tz — Transition zone
- Dc — Distributary channel
- Dcpa — Partially abandoned distributary channel
- I, II — Delta front deposits formed during separate progradational events

Fresh water environments

- Fcpa — Partially abandoned channel
- Fca — Abandoned channel
- Lv — Levee
- Sw — Well-drained swamp
- Sp — Poorly drained swamp
- Ls — Lacustrine
- Cs — Crevasse splay
- Csd — Distal crevasse splay
- Fc — Fluvial channel

Coastal and marginal marine environments

- L — Lagoon
- M — Marsh
- Tc — Tidal channel
- Sf — Foreshore
- Su — Upper shoreface
- Sl — Lower shoreface
- Tz — Transition zone

STRATIGRAPHIC CROSS SECTIONS THROUGH MEASURED SECTIONS IN NORTHEASTERN BLACK MESA, ARIZONA