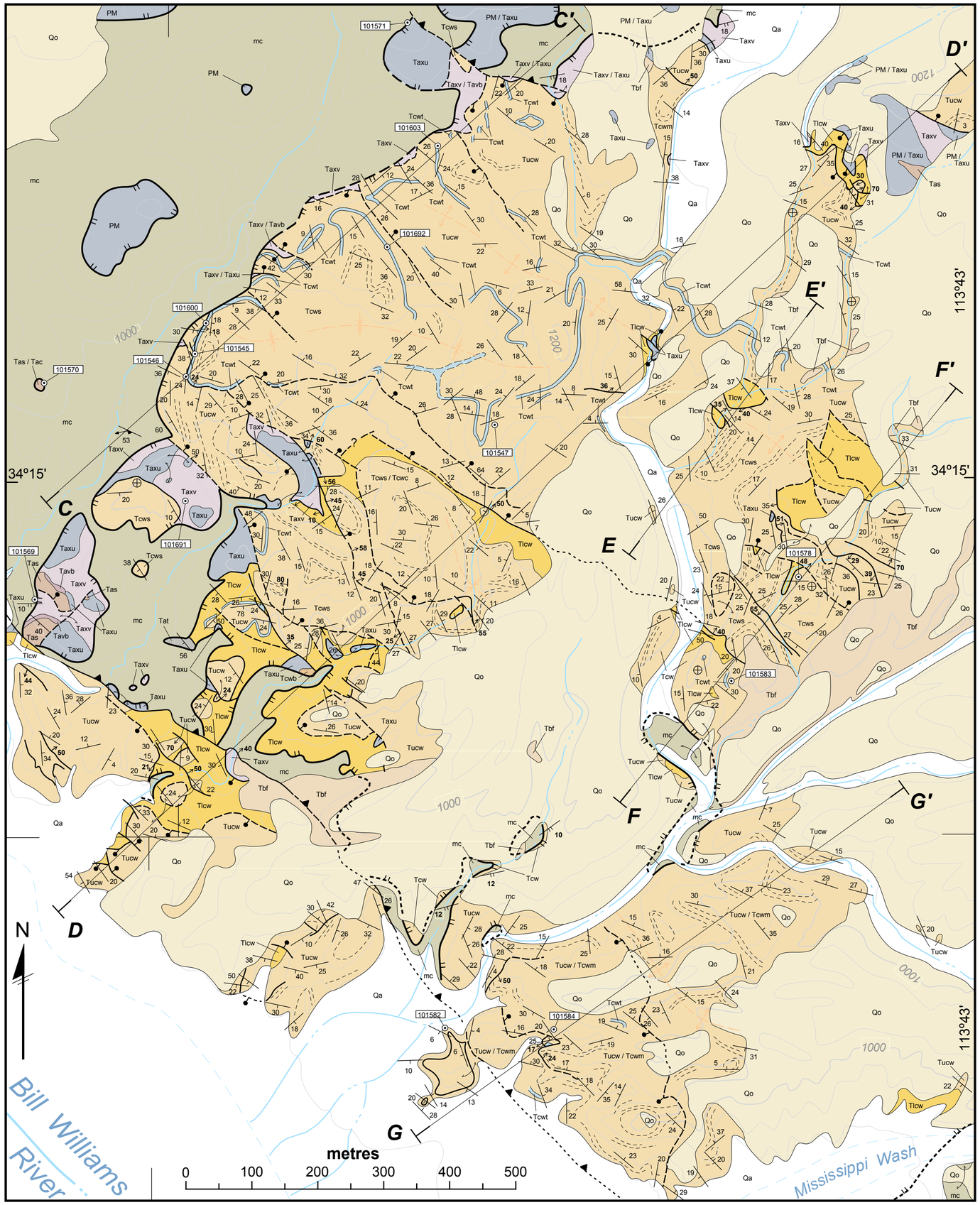
Geological Map of the Central Rankin Ranch Area

By: R.J. Scott

Arizona Geological Survey Contributed Map 04-D (CM-04-D)

Plate 4 of 10



Geological boundary (dashed where inferred, dotted where concealed)

Formlines, trace of bedding

Detachment fault (dashed where inferred, dotted where concealed)

Normal fault, showing dip (dashed where inferred, dotted where concealed)

Reverse fault, showing dip (dashed where inferred, dotted where concealed)

Antiform axial trace

Synform axial trace

Sandy wash

Creek

River

Strike and dip of bedding

Vertical bedding

Horizontal bedding

Strike and dip of detachment fault

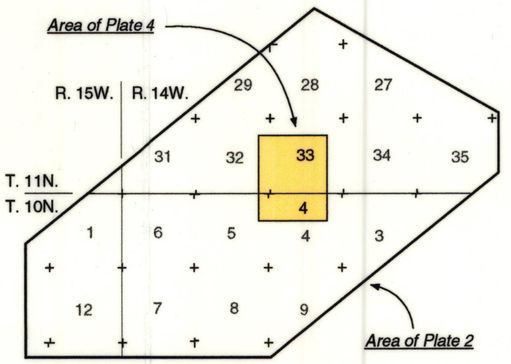
Strike and dip of mylonitic foliation

Trend of mylonitic extension lineation

Leader connecting areas of the same rock unit

Cross-section location *(see Plate 5)*

Sample location



MAP UNITS

Post-extension

- Qa — Recent alluvium
- Qo — Old alluvial gravels

SEQUENCE III

- Tbf — Basin fill

Upper plate

SEQUENCE II — Middle Miocene

- Tcwt — Air-fall tuff (Chapin Wash Fmn.)
- Tucw — Upper Chapin Wash Fmn.
  - Tcwm — Siltstone, sandstone and mudstone
  - Tcwc — Sandstone and conglomerate
  - Tcws — Sandstone
- Tlcw — Lower Chapin Wash Fmn.
- Tcwb — Basal Chapin Wash Fmn.

SEQUENCE I — Early-Middle Miocene

- Tas — Sandstone
- Tac — Conglomerate
- Tavb — Basalt (vesicular)
- Tat — Tuff and tuffaceous sediments
- Taxu — Megabreccia (undifferentiated)
- Taxv — Megabreccia (metavolcanic protolith)

Pre-extension

- PM — Palaeozoic-Mesozoic rocks (undifferentiated)

Lower plate

- mc — Undifferentiated mylonite, chloritic breccia

metres
0 100 200 300 400 500

TITLE: GEOLOGICAL MAP OF THE RANKIN RANCH AREA
LOCATION: Rawhide Mountains, Mohave County, Arizona
SCALE: 1:5000 **CONTOUR INTERVAL:** 40 feet
MAPPING: R. J. Scott (1990-1992)
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