Geological Map of the Rankin Ranch Area

By: R.J. Scott

Arizona Geological Survey Contributed Map 04-D (CM-04-D)
Plate 2 of 7

MAP UNITS

Post-extension
- Qa — Alluvium (Recent)
- Qo — Old alluvial gravels (Quaternary)

SEQUENCE III
- Tbf — Basin fill (Late Miocene)

Upper plate
- Tst — Sandtrap Conglomerate (Middle-Late Miocene)

SEQUENCE II
- Tcwc — Sandstone and conglomerate, Chapin Wash Fmn. (Middle Miocene)
- Tcw — Chapin Wash Fmn. (Middle Miocene)
- Tcwt — Air-fall tuff, Chapin Wash Fmn. (Middle Miocene)
- Tlcw — Lower Chapin Wash Fmn. (Middle Miocene)
- Tcwb — Basal Chapin Wash Fmn. (Middle Miocene)

SEQUENCE I
- Talb — Limestone, dark grey (Middle Miocene)
- Taly — Limestone, pale grey, yellow (Middle Miocene)
- Taxg — Megabreccia, granite protolith (Middle Miocene)
- Tas — Sandstone, undifferentiated (Early-Middle Miocene)
- Tac — Conglomerate, undifferentiated (Early-Middle Miocene)
- Tavb — Basalt, vesicular (Early-Middle Miocene)
- Tava — Andesite, basaltic andesite (Early-Middle Miocene)
- Tacv — Conglomerate, metavolcanic protolith (Early-Middle Miocene)
- Talx — Limestone and limestone breccia (Early Miocene)
- Taxu — Megabreccia, undifferentiated (Early Miocene)
- Taxv — Megabreccia, metavolcanic protolith (Early Miocene)

- Tc — Hydrothermal carbonate (Miocene)

Pre-extension
- Jv — Planet volcanics (Jurassic)
- PM — Undiff. carbonate, quartzite, schist (Palaeozoic-Mesozoic)

Lower plate

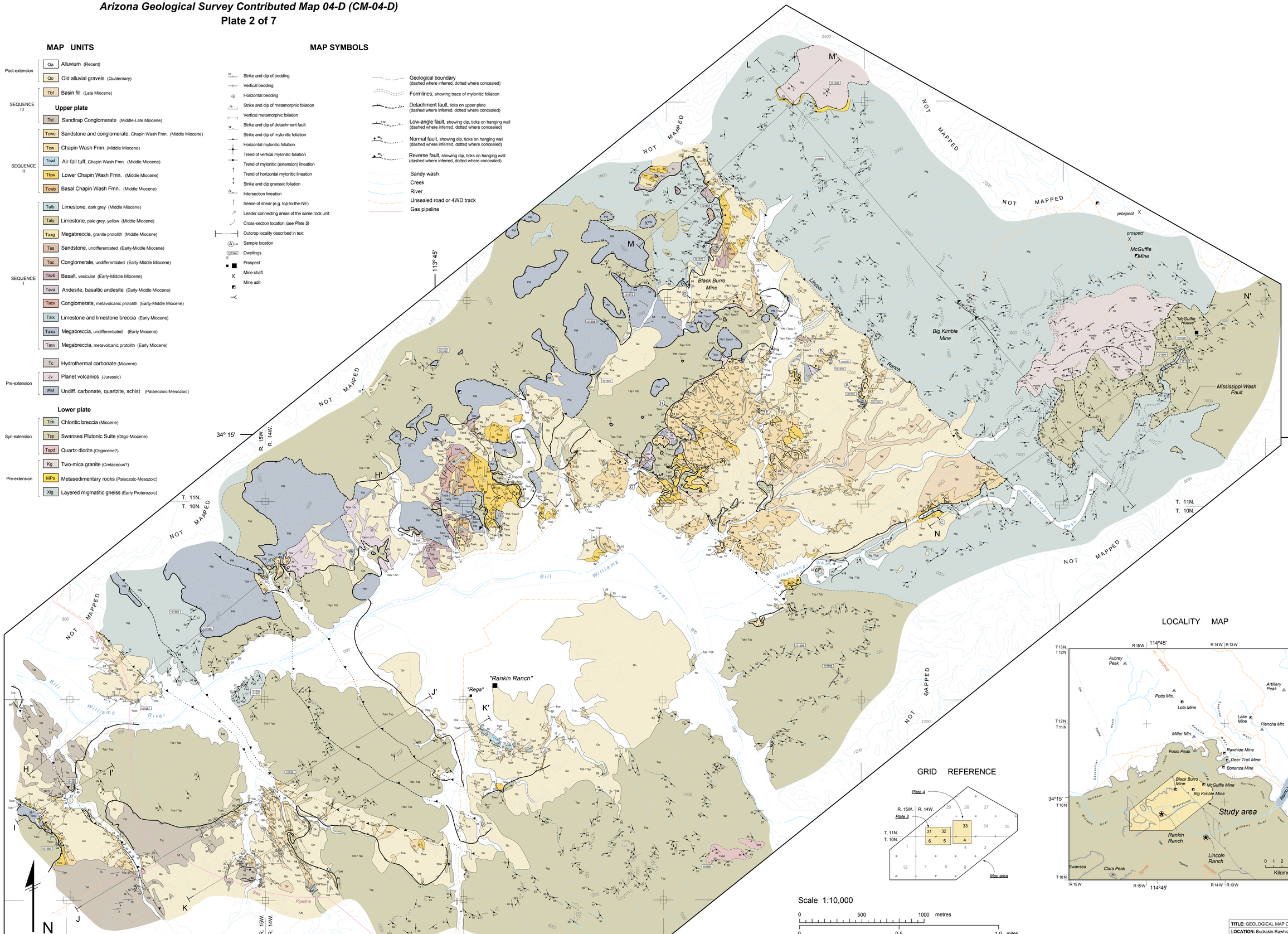
Syn-extension
- Tcb — Chloritic breccia (Miocene)
- Tsp — Swansea Plutonic Suite (Oligo-Miocene)
- Tspd — Quartz-diorite (Oligocene?)

Pre-extension
- Kg — Two-mica granite (Cretaceous?)
- MPs — Metasedimentary rocks (Paleozoic-Mesozoic)
- Xlg — Layered migmatitic gneiss (Early Proterozoic)

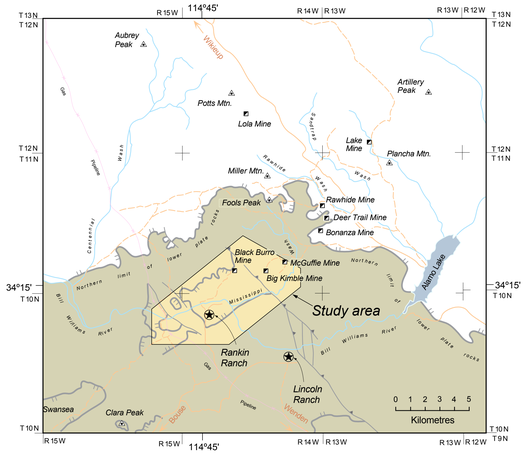
MAP SYMBOLS

- Strike and dip of bedding
- Vertical bedding
- Horizontal bedding
- Strike and dip of metamorphic foliation
- Vertical metamorphic foliation
- Strike and dip of detachment fault
- Strike and dip of mylonitic foliation
- Horizontal mylonitic foliation
- Trend of vertical mylonitic foliation
- Trend of mylonitic (extension) lineation
- Trend of horizontal mylonitic lineation
- Strike and dip gneissic foliation
- Intersection lineation
- Sense of shear (e.g. top-to-the-NE)
- Leader connecting areas of the same rock unit
- Cross-section location *(see Plate 5)*
- Outcrop locality described in text
- Sample location
- Dwellings
- Prospect
- Mine shaft
- Mine adit

- Geological boundary (dashed where inferred, dotted where concealed)
- Formlines, showing trace of mylonitic foliation
- Detachment fault, ticks on upper plate (dashed where inferred, dotted where concealed)
- Low-angle fault, showing dip, ticks on hanging wall (dashed where inferred, dotted where concealed)
- Normal fault, showing dip, ticks on hanging wall (dashed where inferred, dotted where concealed)
- Reverse fault, showing dip, ticks on hanging wall (dashed where inferred, dotted where concealed)
- Sandy wash
- Creek
- River
- Unsealed road or 4WD track
- Gas pipeline



LOCALITY MAP



GRID REFERENCE

Scale 1:10,000

0 500 1000 metres
0 0.5 1.0 miles

TITLE: GEOLOGICAL MAP OF THE RANKIN RANCH AREA	
LOCATION: Buckskin-Rawhide Mountains, La Paz and Mohave counties, Arizona	
SCALE: 1:10000	**CONTOUR INTERVAL:** 80 feet
MAPPING: R. J. Scott (1990-1992)	
DRAFTED: R. J. Scott, D. Gelt	