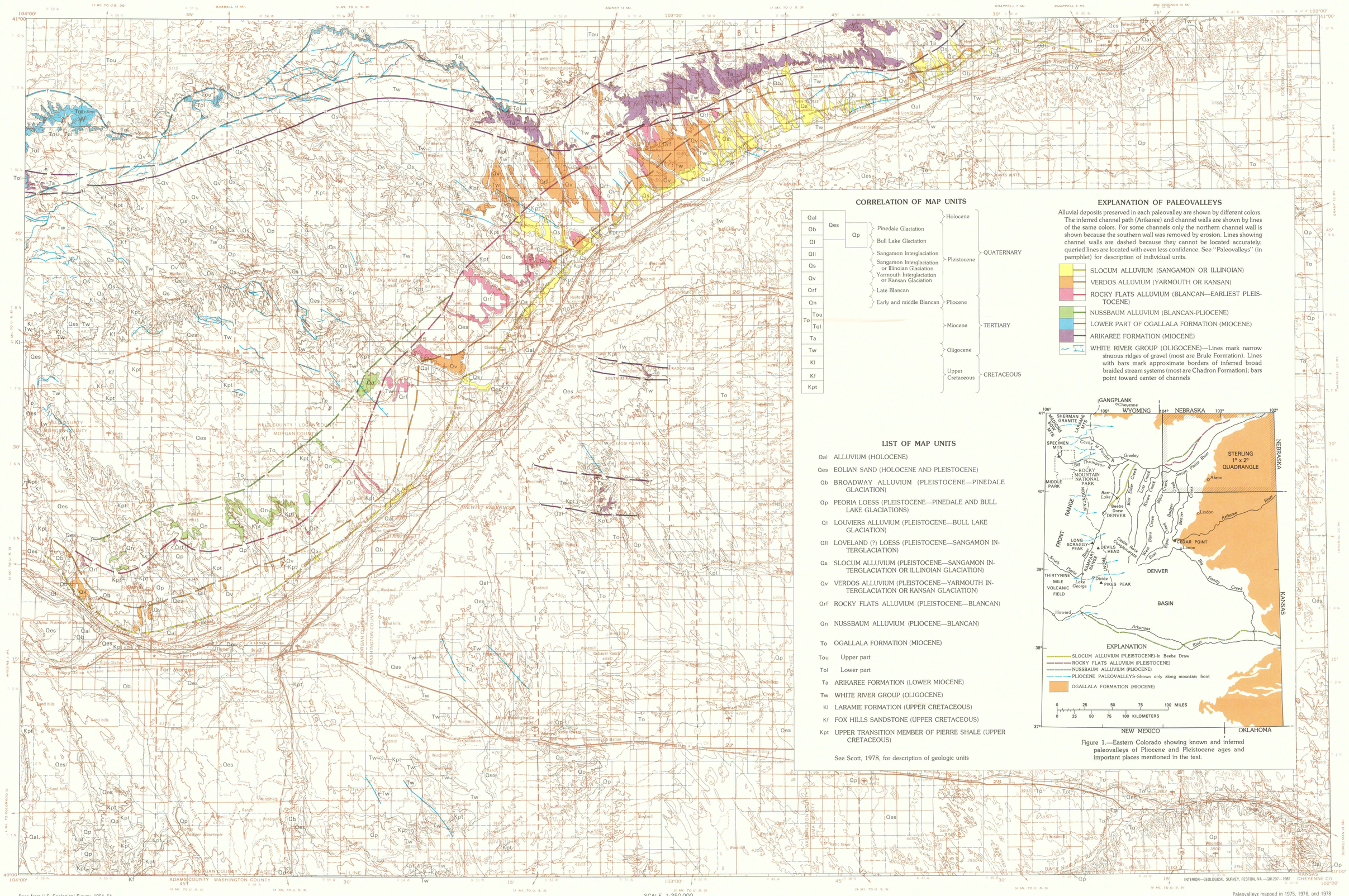

Base from U.S. Geological Survey, 1954–64

Paleovalleys mapped in 1975, 1976, and 1978
Geology from Scott, 1978

CORRELATION OF MAP UNITS

Qal			Holocene	QUATERNARY
Qb	Qes		Pinedale Glaciation	QUATERNARY
Ql		Qp	Bull Lake Glaciation	QUATERNARY
Qll			Sangamon Interglaciation	QUATERNARY
Qs			Sangamon Interglaciation or Illinoian Glaciation	QUATERNARY
Qv			Yarmouth Interglaciation or Kansan Glaciation	QUATERNARY
Qrf			Late Blancan	QUATERNARY
Qn			Early and middle Blancan	QUATERNARY
To	Tou		Pliocene	TERTIARY
	Tol		Miocene	TERTIARY
Ta			Oligocene	TERTIARY
Tw			Oligocene	TERTIARY
Kl			Upper Cretaceous	CRETACEOUS
Kf			Upper Cretaceous	CRETACEOUS
Kpt			Upper Cretaceous	CRETACEOUS

EXPLANATION OF PALEOVALLEYS

Alluvial deposits preserved in each paleovalley are shown by different colors. The inferred channel path (Arikaree) and channel walls are shown by lines of the same colors. For some channels only the northern channel wall is shown because the southern wall was removed by erosion. Lines showing channel walls are dashed because they cannot be located accurately; queried lines are located with even less confidence. See "Paleovalleys" (in pamphlet) for description of individual units.

- SLOCUM ALLUVIUM (SANGAMON OR ILLINOIAN)
- VERDOS ALLUVIUM (YARMOUTH OR KANSAN)
- ROCKY FLATS ALLUVIUM (BLANCAN—EARLIEST PLEISTOCENE)
- NUSSBAUM ALLUVIUM (BLANCAN-PLIOCENE)
- LOWER PART OF OGALLALA FORMATION (MIOCENE)
- ARIKAREE FORMATION (MIOCENE)
- WHITE RIVER GROUP (OLIGOCENE)—Lines mark narrow sinuous ridges of gravel (most are Brule Formation). Lines with bars mark approximate borders of inferred broad braided stream systems (most are Chadron Formation); bars point toward center of channels

LIST OF MAP UNITS

- Qal ALLUVIUM (HOLOCENE)
- Qes EOLIAN SAND (HOLOCENE AND PLEISTOCENE)
- Qb BROADWAY ALLUVIUM (PLEISTOCENE—PINEDALE GLACIATION)
- Qp PEORIA LOESS (PLEISTOCENE—PINEDALE AND BULL LAKE GLACIATIONS)
- Ql LOUVIERS ALLUVIUM (PLEISTOCENE—BULL LAKE GLACIATION)
- Qll LOVELAND (?) LOESS (PLEISTOCENE—SANGAMON INTERGLACIATION)
- Qs SLOCUM ALLUVIUM (PLEISTOCENE—SANGAMON INTERGLACIATION OR ILLINOIAN GLACIATION)
- Qv VERDOS ALLUVIUM (PLEISTOCENE—YARMOUTH INTERGLACIATION OR KANSAN GLACIATION)
- Qrf ROCKY FLATS ALLUVIUM (PLEISTOCENE—BLANCAN)
- Qn NUSSBAUM ALLUVIUM (PLIOCENE—BLANCAN)
- To OGALLALA FORMATION (MIOCENE)
  - Tou Upper part
  - Tol Lower part
- Ta ARIKAREE FORMATION (LOWER MIOCENE)
- Tw WHITE RIVER GROUP (OLIGOCENE)
- Kl LARAMIE FORMATION (UPPER CRETACEOUS)
- Kf FOX HILLS SANDSTONE (UPPER CRETACEOUS)
- Kpt UPPER TRANSITION MEMBER OF PIERRE SHALE (UPPER CRETACEOUS)

See Scott, 1978, for description of geologic units

Figure 1.—Eastern Colorado showing known and inferred paleovalleys of Pliocene and Pleistocene ages and important places mentioned in the text.

PALEOVALLEY AND GEOLOGIC MAP OF NORTHEASTERN COLORADO

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1982

For sale by Branch of Distribution, U.S. Geological Survey, Box 25286, Federal Center, Denver, CO 80225
Explanatory pamphlet accompanies map