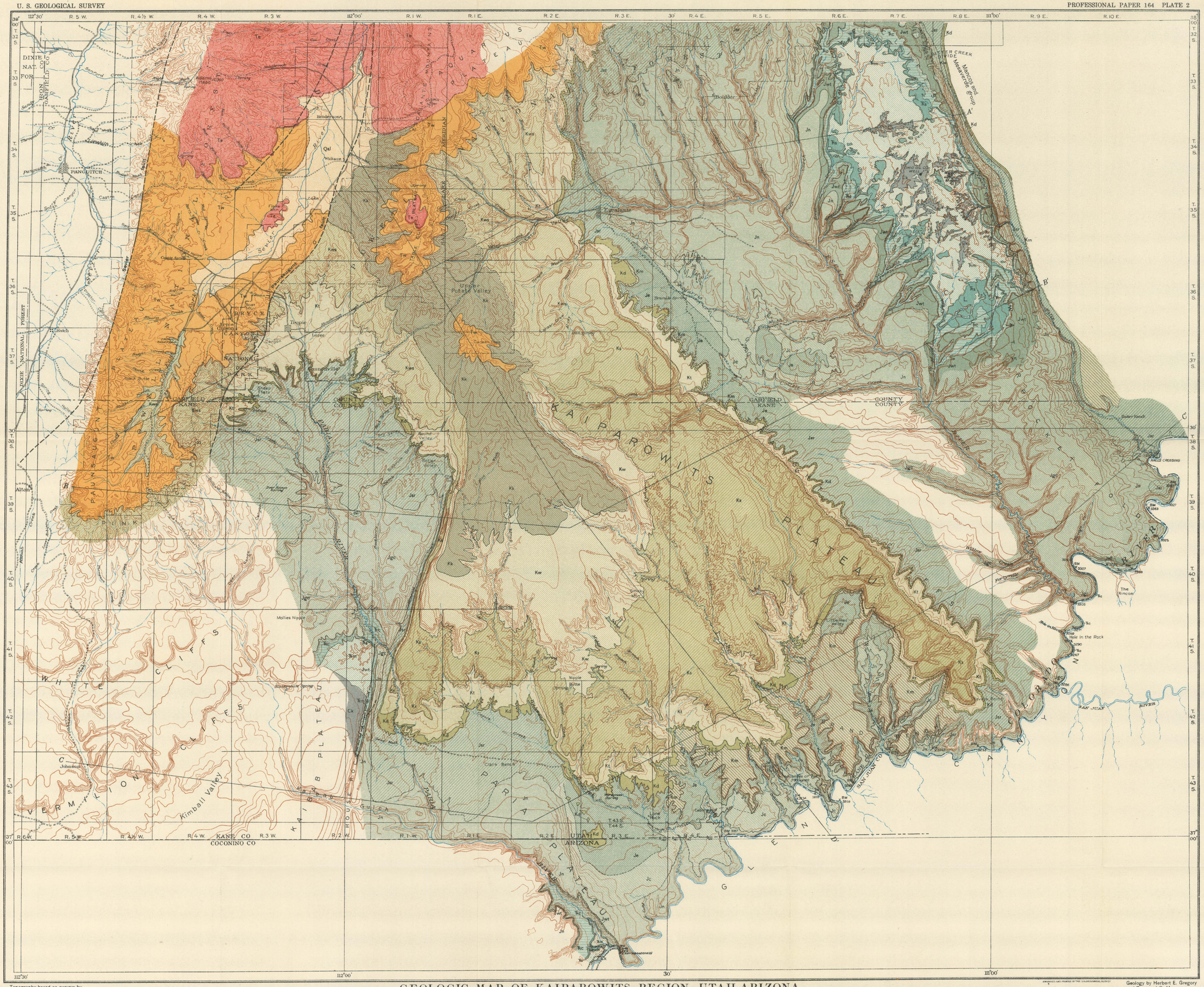

EXPLANATION

SEDIMENTARY ROCKS

QUATERNARY

- PLEISTOCENE AND RECENT — **Qal** — Alluvium and terrace sand and gravel

UNCONFORMITY

TERTIARY

- EOCENE — **Tw** — Wasatch formation (*Limestone, shale, sandstone, and conglomerate of pink and white color*)

UNCONFORMITY

CRETACEOUS

- UPPER CRETACEOUS — **Ks** — Kaiparowits formation (*Arkosic blue-gray sandstone and sandy shale*)
- **Kw** — Wahweap sandstone (*Massive yellowish sandstone and sandy shale*)
- **Ks** — Straight Cliffs sandstone (*Yellowish to brown medium-bedded to massive sandstone; contains coal*)
  - **Kws** — Wahweap, Straight Cliffs, and undifferentiated sandstones
- **Kt** — Tropic shale (*Bluish-drab clayey to sandy shale*)
- **Kd** — Dakota (?) sandstone (*Yellowish to nearly white sandstone, conglomerate, and sandy shale; contains thin coal beds*)

UNCONFORMITY

- LOWER CRETACEOUS (?) — **Km** — Morrison formation (*Massive variegated sandstone and conglomerate*)

UNCONFORMITY

JURASSIC

- UPPER JURASSIC, San Rafael group — **Je** — Entrada sandstone (*Cross-bedded reddish-brown and white sandstone. Locally at top undifferentiated banded shale and sandstone, equivalent to Summerville formation in area to the north, is mapped with the Entrada*)
- **Jc** — Carmel formation (*Siliceous limestone, sandy shale, sandstone, and gypsum of maroon, pink, and greenish colors*)
  - **Jsr** — San Rafael group (*Undifferentiated*)
- Glen Canyon group — **Jn** — Navajo sandstone (*Cross-bedded white to orange-brown sandstone*)
- **Jwt** — Todilto (?) formation underlain by Wingate sandstone (*Todilto (?), maroon thin-bedded irregular sandstone, shale, and conglomerate; Wingate, dark-red cliff-forming cross-bedded sandstone*)
  - **Jgc** — Glen Canyon group (*Undifferentiated*)

UNCONFORMITY

TRIASSIC

- UPPER TRIASSIC — **Trc** — Chinle formation (*Shale, earthy limestone, sandstone, and conglomerate; contains much fossil wood*)
- UPPER (?) TRIASSIC — **Trs** — Shinarump conglomerate (*Gray conglomerate and sandstone; contains fossil wood*)

UNCONFORMITY

- LOWER TRIASSIC — **Trm** — Moenkopi formation (*Chocolate, red, and yellowish sandstone and sandy shale; in places gypsiferous*)

UNCONFORMITY

CARBONIFEROUS

- PERMIAN — **Ck** — Kaibab limestone and Coconino sandstone (*Kaibab, buff cherty arenaceous limestone and calcareous sandstone; Coconino, light-colored cross-bedded calcareous sandstone, southeast of Waponhoe Mesa*)

IGNEOUS ROCKS

TERTIARY

- **Tv** — Extrusive volcanic rocks (*Lavas, ash, and tuff*)

D — Fault (D, downthrown side)

Topography based on surveys by R. C. Moore and compilations from maps of the Powell Survey, U. S. Geological Survey, and U. S. Forest Service

GEOLOGIC MAP OF KAIPAROWITS REGION, UTAH-ARIZONA

Scale 250,000

Contour interval 250 feet
Datum is mean sea level

1931

Geology by Herbert E. Gregory and Raymond C. Moore
Surveyed in 1918–1924