

EXPLANATION

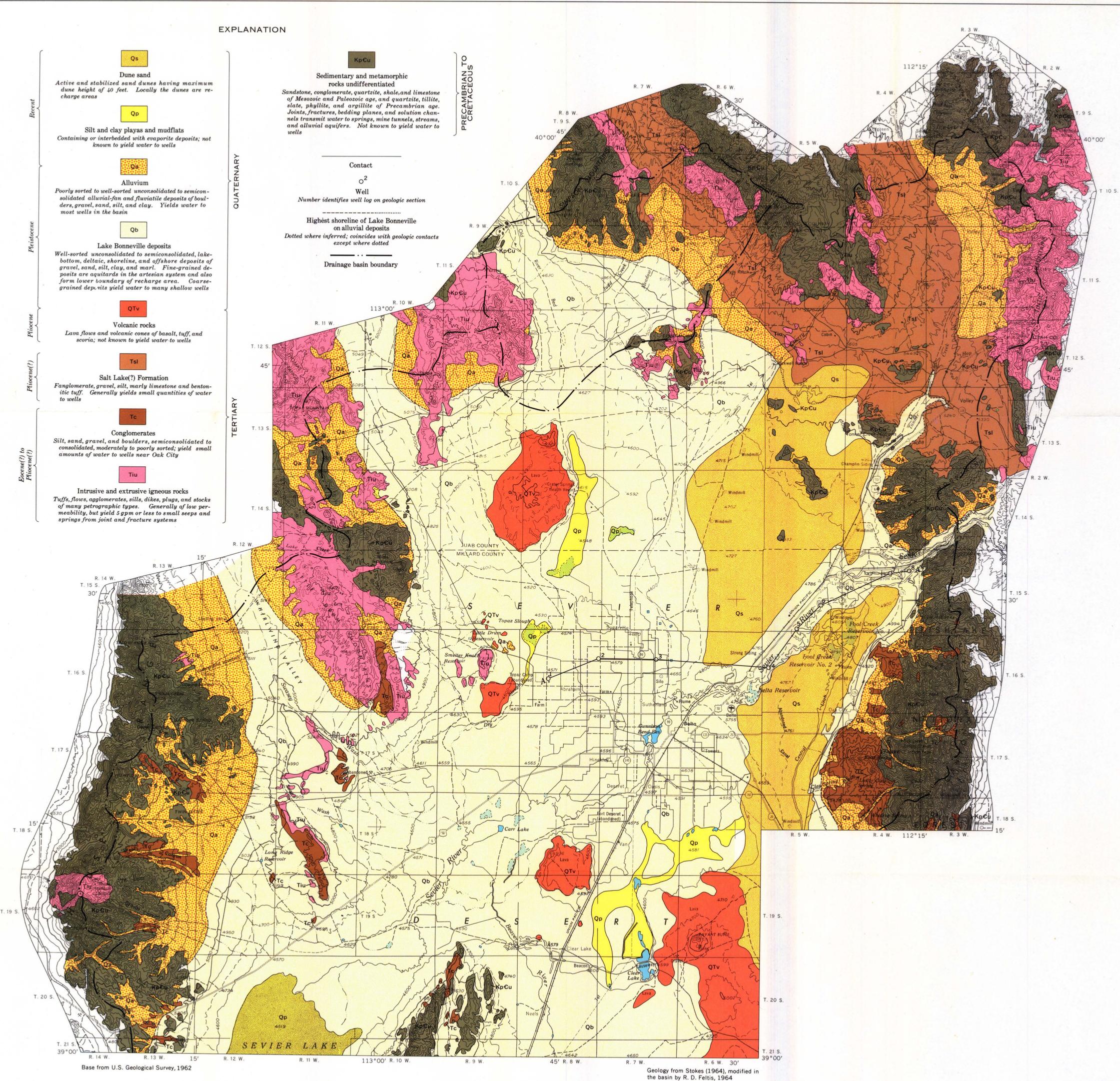
- Recent**
- Qs**  
Dune sand  
Active and stabilized sand dunes having maximum dune height of 40 feet. Locally the dunes are recharge areas
  - Qp**  
Silt and clay plays and mudflats  
Containing or interbedded with evaporite deposits; not known to yield water to wells
- Pleistocene**
- Qa**  
Alluvium  
Poorly sorted to well-sorted unconsolidated to semiconsolidated alluvial fan and fluvial deposits of boulders, gravel, sand, silt, and clay. Yields water to most wells in the basin
  - Qb**  
Lake Bonneville deposits  
Well-sorted unconsolidated to semiconsolidated, lake-bottom, deltaic, shoreline, and offshore deposits of gravel, sand, silt, clay, and marl. Fine-grained deposits are aquifers in the artesian system and also form lower boundary of recharge area. Coarse-grained deposits yield water to many shallow wells
- Pliocene**
- QTV**  
Volcanic rocks  
Lava flows and volcanic cones of basalt, tuff, and scoria; not known to yield water to wells
- Pliocene(?)**
- Tsl**  
Salt Lake(?) Formation  
Fanglomerate, gravel, silt, marly limestone and bentonitic tuff. Generally yields small quantities of water to wells
- Eocene(?) to Pliocene(?)**
- Tc**  
Conglomerates  
Silt, sand, gravel, and boulders, semiconsolidated to consolidated, moderately to poorly sorted; yield small amounts of water to wells near Oak City
  - Tiu**  
Intrusive and extrusive igneous rocks  
Tuffs, flows, agglomerates, sills, dikes, plugs, and stocks of many petrographic types. Generally of low permeability, but yield 5 gpm or less to small seeps and springs from joint and fracture systems

QUATERNARY

TERTIARY

PRECAMBRIAN TO CRETACEOUS

- KpCu**  
Sedimentary and metamorphic rocks undifferentiated  
Sandstone, conglomerate, quartzite, shale, and limestone of Mesozoic and Paleozoic age, and quartzite, tuffite, slate, phyllite, and argillite of Precambrian age. Joints, fractures, bedding planes, and solution channels transmit water to springs, mine tunnels, streams, and alluvial aquifers. Not known to yield water to wells
- Contact**
- Well**  
Number identifies well log on geologic section
- Highest shoreline of Lake Bonneville on alluvial deposits**  
Dotted where inferred; coincides with geologic contacts except where dotted
- Drainage basin boundary**



Base from U.S. Geological Survey, 1962

Geology from Stokes (1964), modified in the basin by R. D. Feltis, 1964

GENERALIZED GEOLOGIC MAP OF THE SEVIER DESERT AND ADJACENT MOUNTAINS, UTAH

