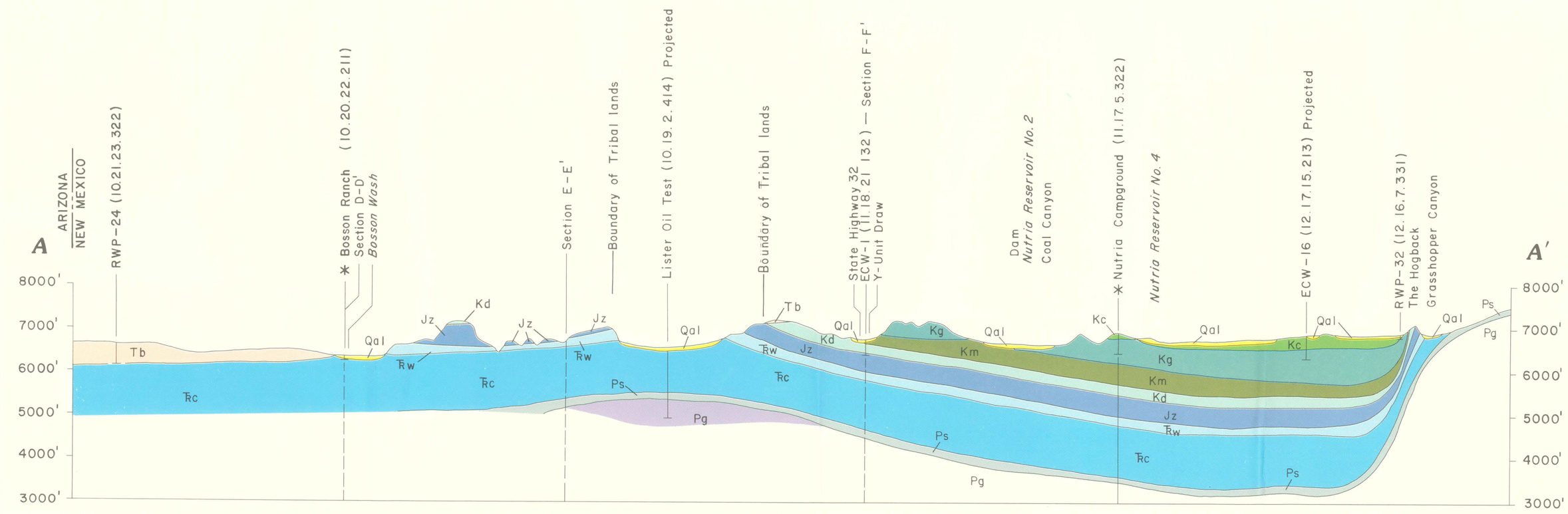


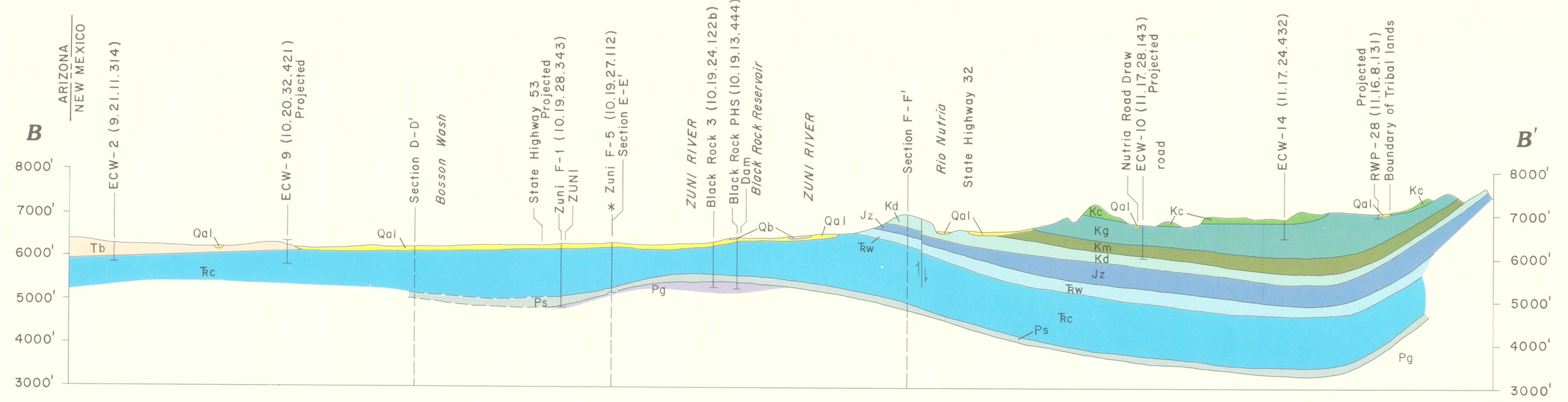


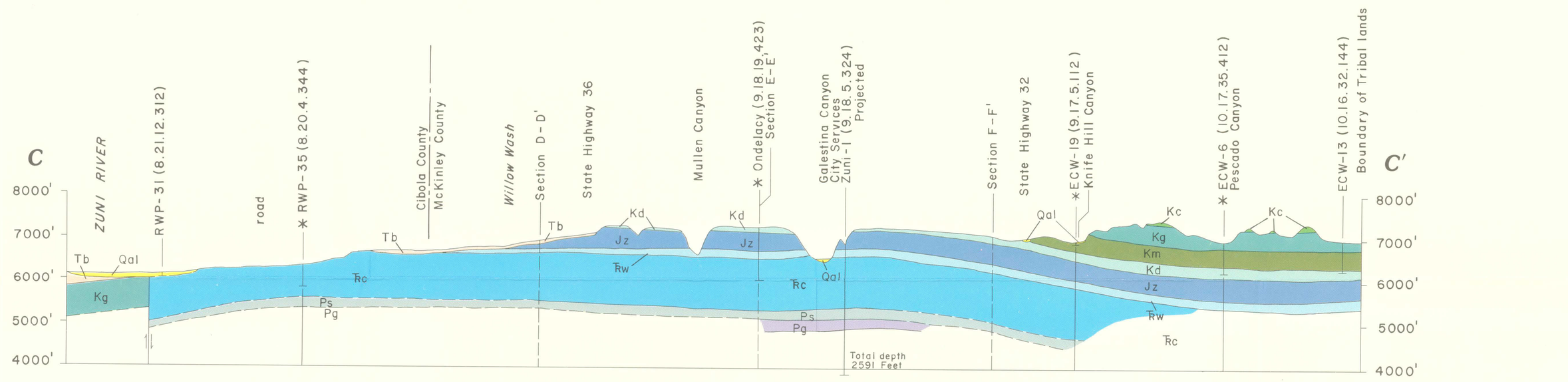


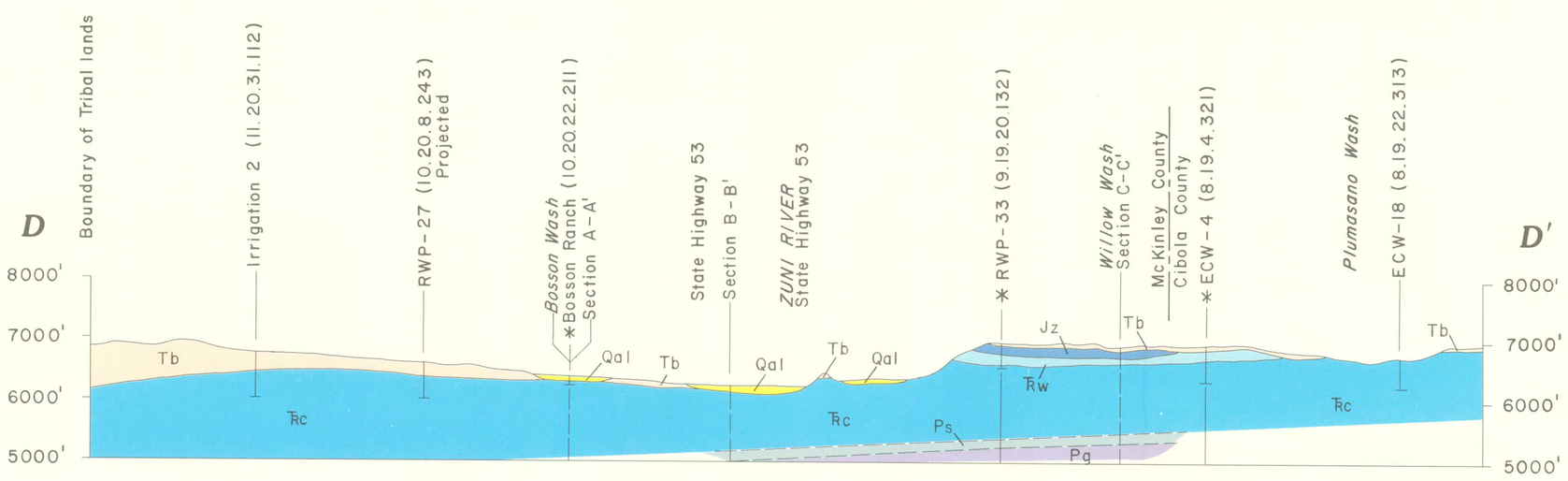


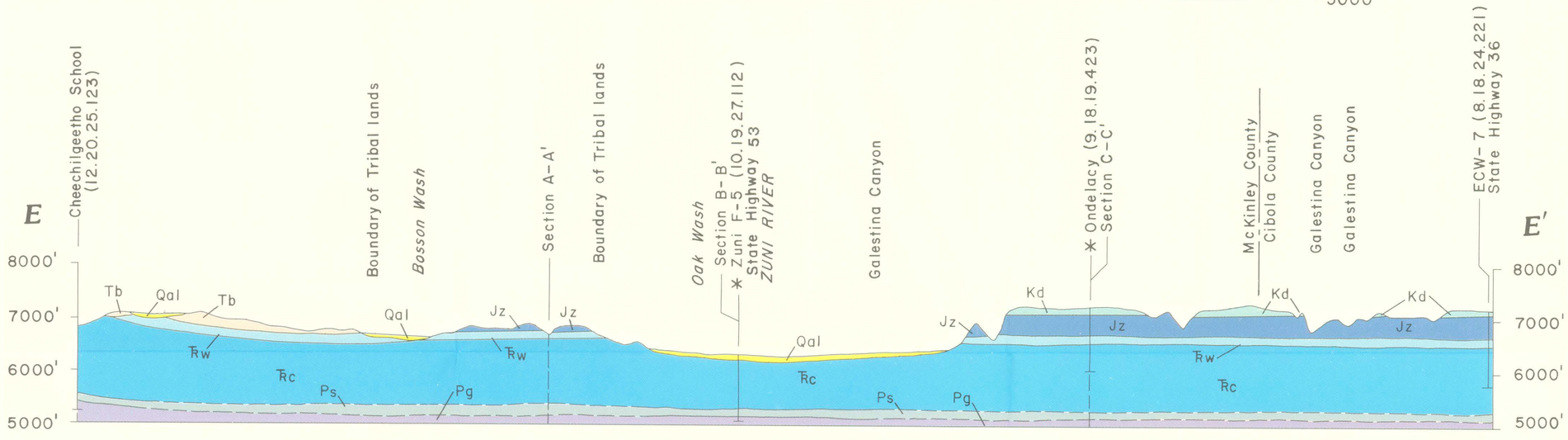


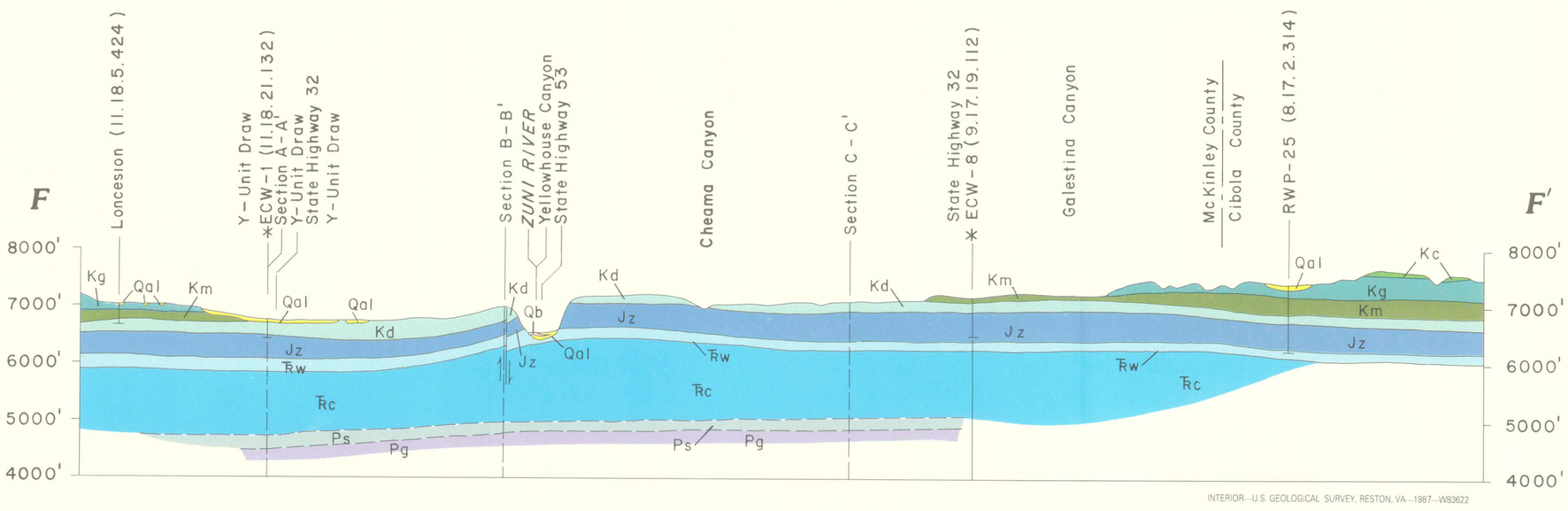


INTERIOR—U.S. GEOLOGICAL SURVEY, RESTON, VA—1987—W83622

0 1 2 3 4 5 6 MILES
0 2 4 6 KILOMETERS

VERTICAL EXAGGERATION X 5. DATUM IS SEA LEVEL

## EXPLANATION

QUATERNARY

- **Qal** — ALLUVIUM - As much as 200 feet of fluvial sand, gravel, and clay
- **Qb** — BASALT - A series of flows that moved westward along the Rio Pescado

TERTIARY

- **Tb** — BIDAHOCHI FORMATION - As much as 650 feet of loosely consolidated sands and gravels of Miocene and Pliocene age

CRETACEOUS

- **Kc** — CREVASSE CANYON FORMATION - As much as 500 feet of shale interbedded with lenticular sandstone and coal. Includes rocks of the Dilco Coal Member and the Bartlett Barren Member
- **Kg** — GALLUP SANDSTONE - The lower unit, as much as 200 feet of interbedded sandstone, shale, and thin coal seams, and intervening tongues of the Mancos Shale, and the upper unit, as much as 200 feet of pink sandstone with interbedded carbonaceous shale and thin coal seams
- **Km** — MANCOS SHALE - Consists of 300 to 400 feet of dark, fissile, marine shales; intertongues with overlying and underlying rock units
- **Kd** — DAKOTA SANDSTONE - As much as 150 feet of fine- to medium-grained sandstone interbedded with shale

JURASSIC

- **Jz** — ZUNI SANDSTONE - As much as 500 feet of fine- to coarse-grained, massive, crossbedded sandstone

TRIASSIC

- **Ŧw** — WINGATE SANDSTONE - Approximately 150 feet of reddish-brown siltstone and fine-grained sandstone
- **Ŧc** — CHINLE FORMATION - Includes the Monitor Butte Member and the Petrified Forest Member, consisting of the lower part, Sonsela Sandstone Bed, and upper part. As much as 1,300 feet of red, brown, and purple shale interbedded with thin lenticular sandstone

PERMIAN

- **Ps** — SAN ANDRES LIMESTONE - Approximately 100 feet of gray, fossiliferous limestone
- **Pg** — GLORIETA SANDSTONE - Approximately 200 feet of buff to white, medium-grained, well-cemented sandstone

CONTACT--Dashed where approximately located

FAULT--Arrows indicate the vertical component of relative movement

ECW-8 (9.17.19.112)

- WELL LOCATION NUMBER--See page 3 of text for explanation of well-numbering system
- WELL NAME
- BEND IN SECTION
- WELL DEPTH--Length of line indicates depth

# GEOLOGIC SECTIONS THROUGH ZUNI TRIBAL LANDS, MC KINLEY AND CIBOLA COUNTIES, NEW MEXICO