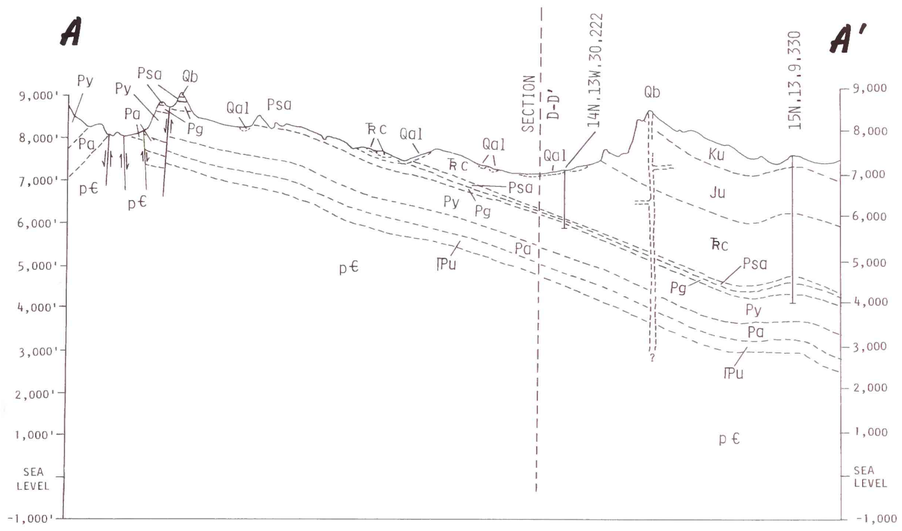
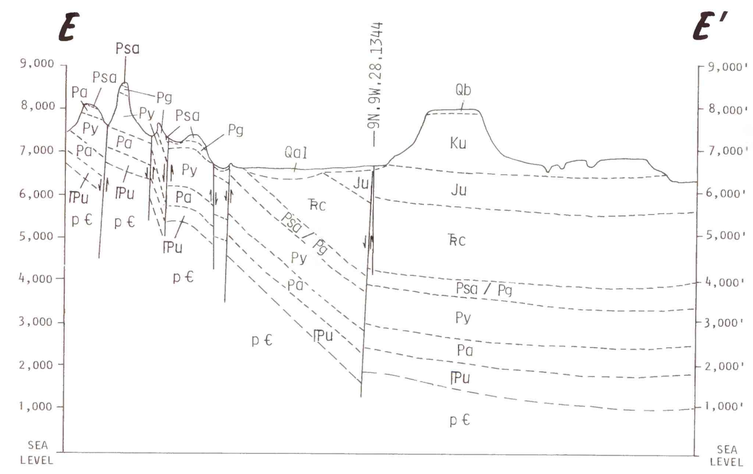
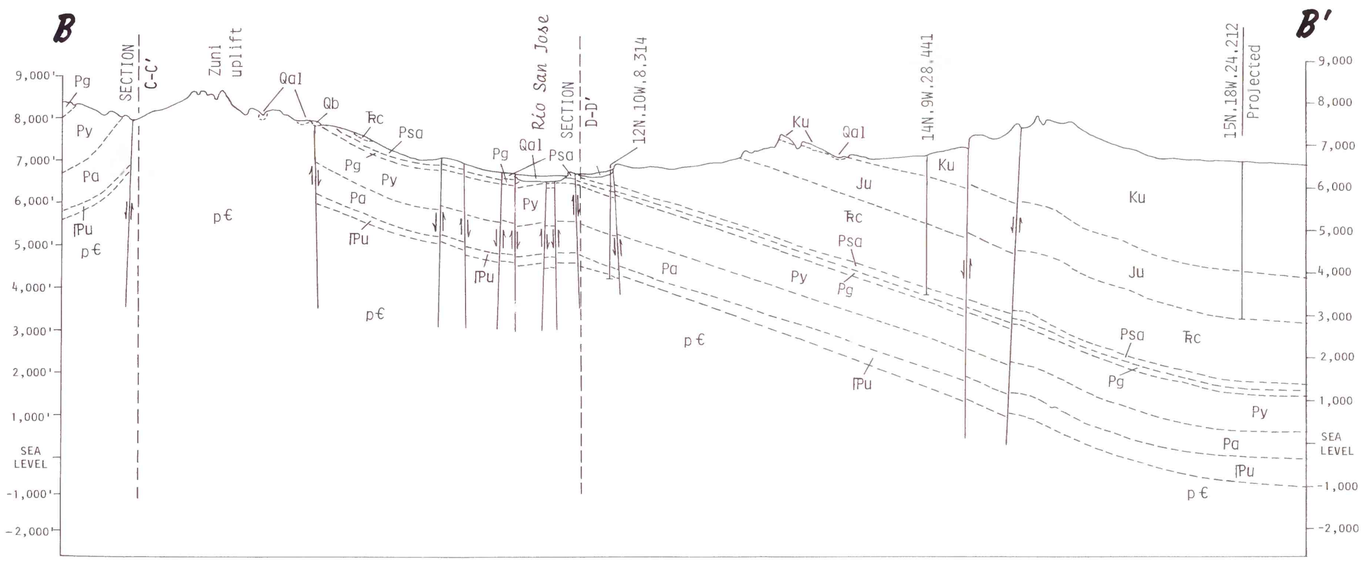
U.S. DEPARTMENT OF THE INTERIOR
U.S. GEOLOGICAL SURVEY

Prepared in cooperation with the
NEW MEXICO STATE ENGINEER OFFICE,
PUEBLO OF ACOMA,
PUEBLO OF LAGUNA,
and the
U.S. BUREAU OF INDIAN AFFAIRS

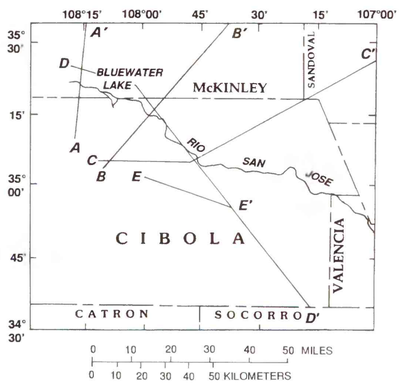
WATER-RESOURCES INVESTIGATIONS REPORT 91-4033
PLATE 1







LOCATION OF GEOLOGIC SECTIONS



EXPLANATION

Qal	ALLUVIUM
Qb	BASALT
QTb	QUATERNARY AND TERTIARY BASALT
Tb	TERTIARY BASALT
Ku	CRETACEOUS SEDIMENTARY ROCKS, UNDIVIDED
Ju	JURASSIC SEDIMENTARY ROCKS, UNDIVIDED
Ꞧc	TRIASSIC CHINLE FORMATION -- As much as 1,900 feet of red, brown, and green shale, siltstone, and poorly sorted sandstone, some thin beds of limestone in upper part. Includes the Wingate Sandstone where present
Psa	PERMIAN SAN ANDRES LIMESTONE -- As much as 700 feet of limestone, dolomite, sandstone, and gypsum
Pg	PERMIAN GLORIETA SANDSTONE-- As much as 300 feet of white to buff, very fine to medium-grained, well-sorted sandstone, some gypsum and siltstone
Py	PERMIAN YESO FORMATION --As much as 1,400 feet of siltstone, sandstone, and shale, several thin beds of limestone in the lower middle part
Pa	PERMIAN ABO FORMATION -- As much as 1,600 feet of red siltstone, sandstone, and shale
IPu	PENNSYLVANIAN SEDIMENTARY ROCKS, UNDIVIDED
p€	PRECAMBRIAN ROCKS, UNDIVIDED

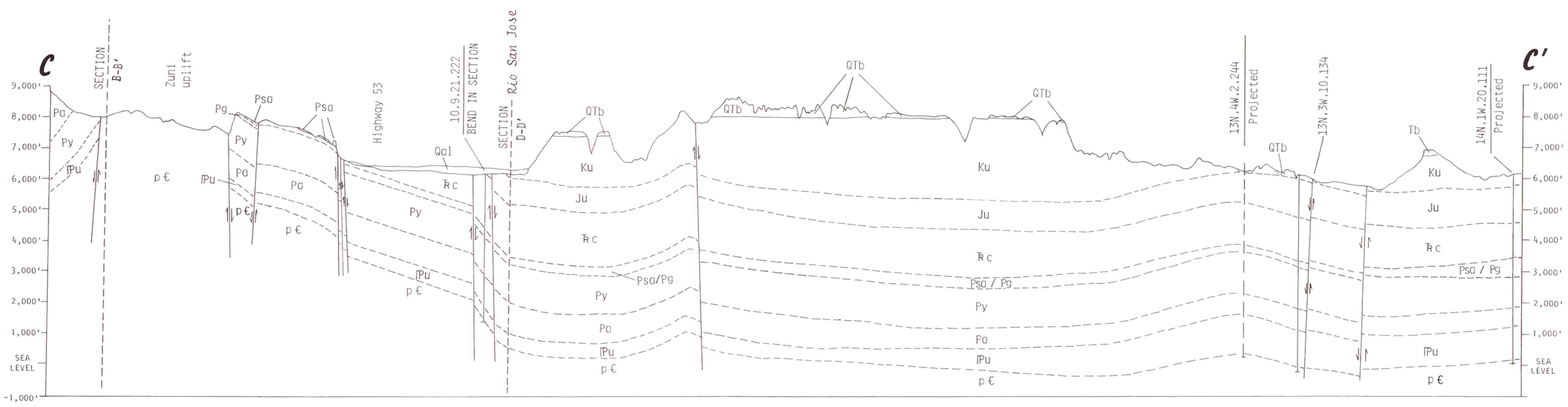
CONTACT BETWEEN GEOLOGIC UNITS--Dashed where approximately located

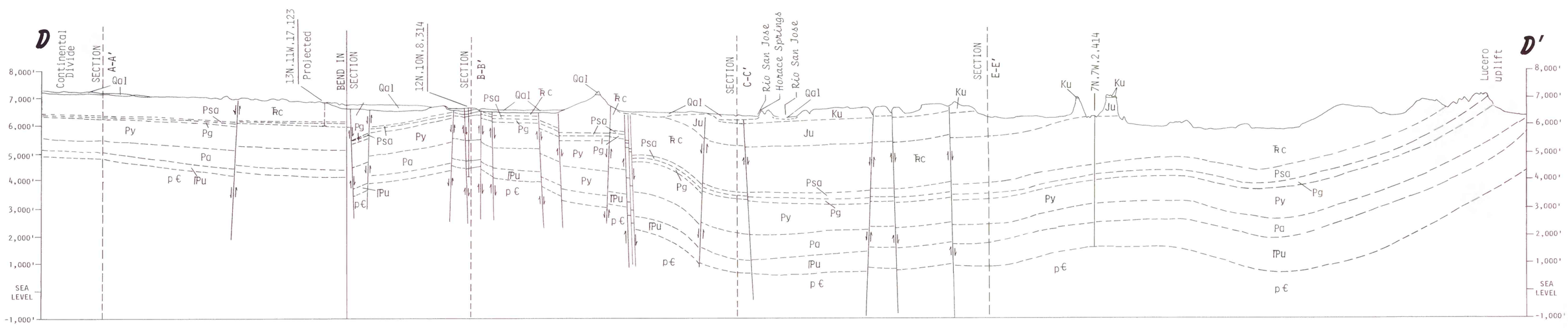
FAULT--Arrows indicate relative movement

14N.1W.20.111 — WELL NUMBER

WELL

Geologic sections were constructed using the surface geology of Dane and Bachman (1965). Contacts between geologic units in the vertical are based on well and test-hole data. In areas where well control was not available, formation tops were estimated by subtracting known or estimated formation thickness from the elevation of the base of the Dakota Sandstone (Thaden and Zech, 1984). Data on formation thickness were obtained from publications by Baars (1962), Thaden and Zech (1984), and from maps prepared for this report (figs. 7, 8, and 10).





0 1 2 3 4 5 10 MILES
0 1 2 3 4 5 10 KILOMETERS

VERTICAL EXAGGERATION x 8

GEOLOGIC SECTIONS OF THE ACOMA EMBAYMENT AND ZUNI UPLIFT, WEST-CENTRAL NEW MEXICO