



CORRELATION OF MAP UNITS

Qya	Qp	} Holocene	} QUATERNARY
Qoa	Qof		
QTc		} Pliocene - Pleistocene	} QUATERNARY and TERTIARY
pTt			
pTb			} Cretaceous
			} PRE-TERTIARY

DESCRIPTION OF MAP UNITS

- Qya** YOUNGER ALLUVIUM (Quaternary) - Boulders, gravel, sand, silt, and clay beneath alluvial fans and plains; largely above the water table, but, where saturated, yields as much as 200 gallons per minute to wells
- Qp** PLAYA DEPOSITS (Quaternary) - Clay with some sand and silt. Above the regional water table in this area
- Qoa** OLDER ALLUVIUM (Quaternary) - Arkosic gravel, sand, silt, and clay, generally weathered and unconsolidated. Yields as much as 200 gallons per minute to wells where saturated
- Qof** OLDER FAN DEPOSITS (Quaternary) - Boulders, gravel and sand, partly consolidated to consolidated. Yield as much as 200 gallons per minute to wells where saturated
- QTc** CONTINENTAL DEPOSITS (Quaternary and Tertiary) - Partly consolidated conglomerate, fanglomerate sandstone, claystone, siltstone, and clay. May yield 1 to 5 gallons per minute to wells; water generally unsuitable for domestic use
- pTt** TONALITE (Pre-Tertiary) - Igneous rocks comprising Tonalite, of Cretaceous age. Will yield 10 to 30 gallons per minute where rocks are highly fractured or deeply weathered
- pTb** BASEMENT COMPLEX (Pre-Tertiary) - Igneous and metamorphic rocks, of Cretaceous age or older. May yield 1 to 8 gallons per minute where rocks are highly fractured or deeply weathered

- ?---? GEOLOGIC CONTACT - Approximately located. Queried where position is uncertain
- - - - - FAULT - Dashed where approximately located; dotted where concealed

Base from U. S. Geological Survey
Warner Springs 1960, Clark Lake 1960,
Santa Ysabel 1960, and Borrego 1959, 1:62,500

Geology from published maps by F. H. Weber (1963),
W. R. Moyle, Jr. (1968, 1971), F. W. Giessner, B. A.
Winters, and J. C. McLean (1971). F. W. Giessner
and M. J. Mermod (1974), and T. H. Rogers (1965)

1 0 1 2 3 4 MILES

1 0 1 2 3 4 5 KILOMETERS

CONTOUR INTERVAL 40 AND 80 FEET
NATIONAL GEODETIC VERTICAL DATUM OF 1929



GEOLOGIC MAP OF THE LOS COYOTES INDIAN RESERVATION AND VICINITY, SAN DIEGO COUNTY, CALIFORNIA