

EXPLANATION

- Qal Alluvial deposits
 - Qev Saline deposits
 - Qe Eolian sand
Showing trend of dune crest
 - Qd Piedmont (fanglomerate) deposits
 - Ql Landslide deposits
 - Qt Terrace deposits
 - Qot Older terrace deposits
 - Qc Travertine deposits
- ALTOS DE PICA FORMATION**
- QTa5 Member 5
Sand and gravel
 - QTa4 Member 4
Welded tuff and ash
 - QTa3 Member 3
Sandstone and conglomerate
 - QTa2 Member 2
Welded tuff and ash
 - QTa1 Member 1
Conglomerate, sandstone, and tuff
- CERRO EMPEXA FORMATION**
- Kca3 Member 3
Trachyte and breccia
 - Kca2 Member 2
Mudstone, sandstone, and gypsum
 - Kca1 Member 1
Trachyte and breccia
- CHACARILLA FORMATION**
- Jch Mudstone, shale, sandstone, and lava
- LONGACHO FORMATION**
- Jl Mudstone, shale, sandstone, and limestone
 - Jg Granite rocks
- Dikes
 - Undifferentiated intrusives
 - Contact
Dashed where approximately located
 - Disconformity contact
(In geologic sections only)
Dashed where approximately located
 - Fault
Showing relative movement. Dashed where approximately located; dotted where concealed; queried where probable. U, upthrown side; D, downthrown side
 - Anticline
Showing trace of axial plane and plunge of axis. Dashed where approximately located
 - Syncline
Showing trace of axial plane and plunge of axis. Dashed where approximately located
 - Inferred monocline
Showing trace of axis
 - Strike and dip of beds
 - Strike and dip of overturned beds
 - Strike of vertical beds
 - Well
Number listed in table of well records
 - Spring
 - Gallery mouth
 - Altitude, in meters
 - Low scarp

QUATERNARY

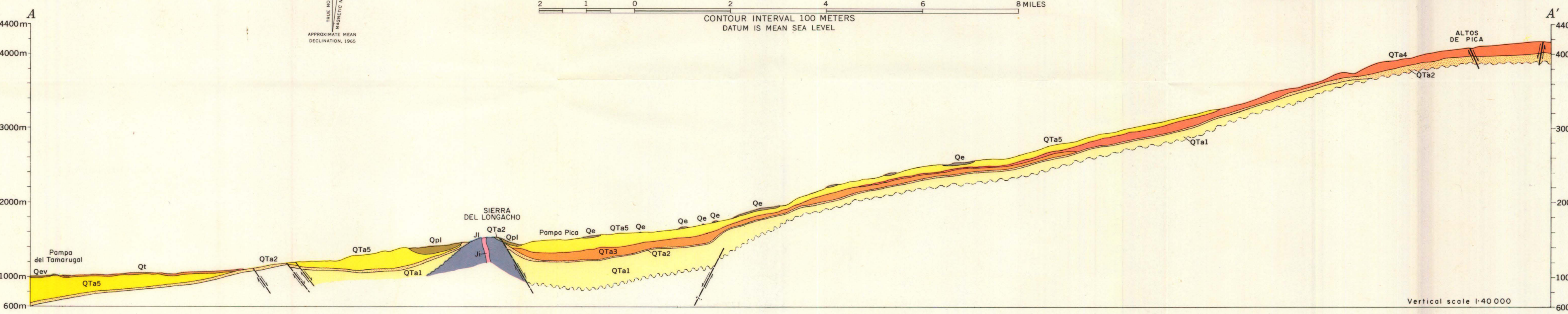
TERTIARY AND QUATERNARY

CRETACEOUS

JURASSIC

Topographic base compiled in 1958 from aerial photographs. Based on triangulation net of the Instituto Geografica Militar, Santiago, Chile

Geology mapped in 1956-57 by Carlos Galli Oliver and Robert J. Dingman. Assisted by Octavio Castillo and Alfonso Freile. Prepared in cooperation with the Instituto de Investigaciones Geologicas de Chile under the auspices of the Agency for International Development, U.S. Department of State.



GEOLOGIC MAP AND SECTIONS OF THE PICA QUADRANGLE, TARAPACA PROVINCE, CHILE