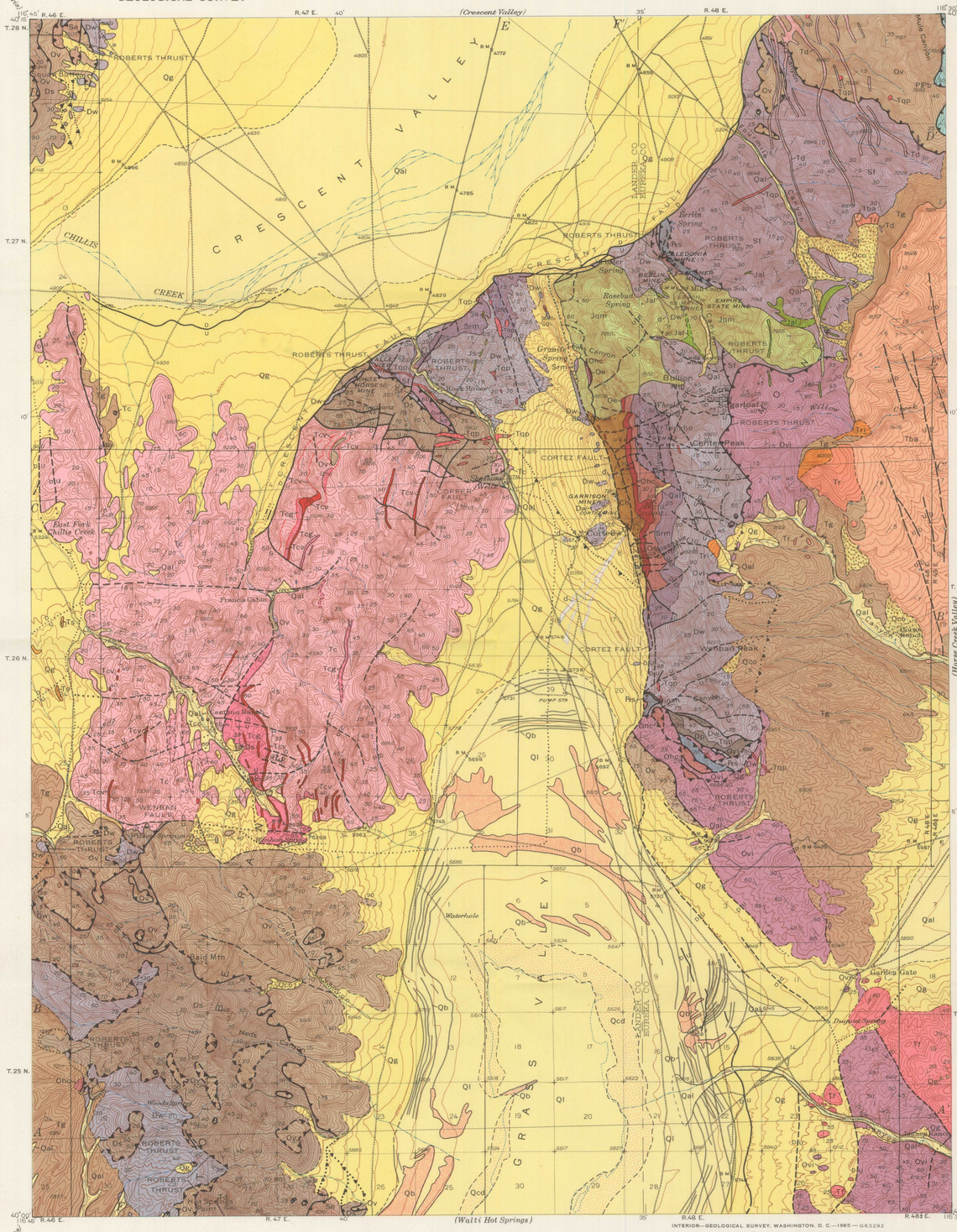


Base map by Topographic Division U. S. Geological Survey, 1938
Base modified by J. Gilluly and H. Masursky, 1959

SCALE 1:62 500

1 ½ 0 1 2 3 MILES

1 .5 0 1 2 3 KILOMETERS

CONTOUR INTERVAL 50 FEET
DATUM IS MEAN SEA LEVEL

INTERIOR—GEOLOGICAL SURVEY, WASHINGTON, D. C.—1965—G63292

Geology by James Gilluly and Harold Masursky, assisted by Richard Alvord, Peter Birkeland, William Hays, Wesley LeMasurier and L. J. P. Muffler

EXPLANATION

QUATERNARY

Pleistocene and Recent

- Qg — Terrace and pediment deposits
- Qal — Alluvium
- Qco — Colluvium and landslide deposits
- Qb — Beach and bar deposits
- Ql — Lacustrine deposits; *Silt and clay*
- Qcd — Clay dunes

TERTIARY

Pliocene

- Ts — Sediments and tuff
- Tri, Tr — Rhyolite flows and plugs; Tr, *rhyolite flows*; Tri, *rhyolite plugs*
- Tba — Basaltic andesite flows
- Td — Dolerite dikes

Miocene

- Tg — Gravel

UNCONFORMITY

Oligocene(?)

- Tcv, Tcg, Tc, Tcv, Tcs — Caetano Tuff; Tc, *welded rhyolitic tuff*; Tcv, *vitrophyre layers*; Tcs, *air- and water-laid tuffs, nonwelded*; Tcg, *sandstone and conglomerate*
- Tqp — Quartz porphyry dikes
- Tf — Volcanics of Fye Canyon

JURASSIC

- Jal — Alaskite
- Js — Augite syenite
- Jqm — Quartz monzonite

UNCONFORMITY

OVERLAP FACIES

PENNSYLVANIAN OR PERMIAN

Upper Pennsylvanian or Lower Permian

- PPb — Brock Canyon Formation

UNCONFORMITY-FAULT

UPPER PLATE OF ROBERTS THRUST (WESTERN FACIES)

LOWER PLATE OF ROBERTS THRUST (EASTERN FACIES)

DEVONIAN

Upper Devonian

- Dp — Pilot Shale
- Dw — Wenban Limestone

Middle and Upper(?) Devonian

- Ds — Slaven Chert

FAULT CONTACT

SILURIAN

- Se — Elder Sandstone

FAULT CONTACT

Lower Silurian

- Sf — Fourmile Canyon Formation

FAULT CONTACT

- Srm — Roberts Mountains Limestone

ORDOVICIAN

Lower and Middle Ordovician

- Ov — Valmy Formation
- Ovi — Vinini Formation

FAULT CONTACT

Middle(?) and Upper Ordovician

- Ohc — Hanson Creek Formation

Middle Ordovician

- Oe — Eureka Quartzite

DISCONFORMITY

CAMBRIAN

Middle and Upper Cambrian

- Ch — Hamburg Dolomite

PALEOZOIC

- Pzs — Sedimentary rocks, undifferentiated

Contact
Dashed where approximately located; dotted where concealed

Normal fault, showing dip
Dashed where approximately located; dotted where concealed. U, upthrown side; D, downthrown side

Thrust fault
Dashed where approximately located; dotted where concealed. Saw teeth on upper plate

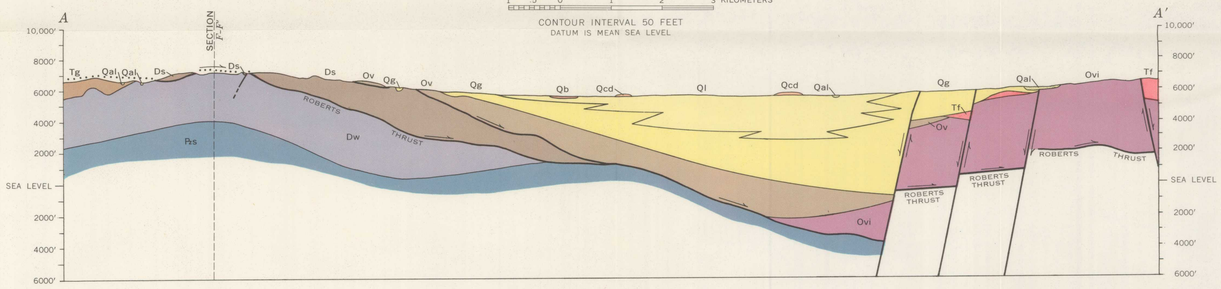
Strike and dip of beds

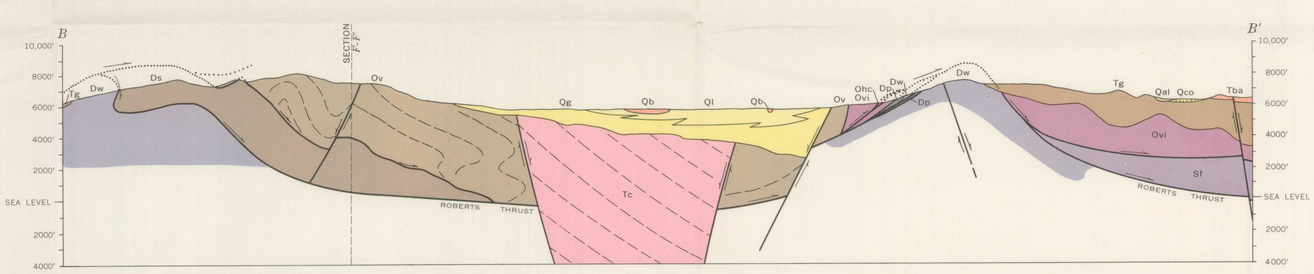
Strike of vertical beds

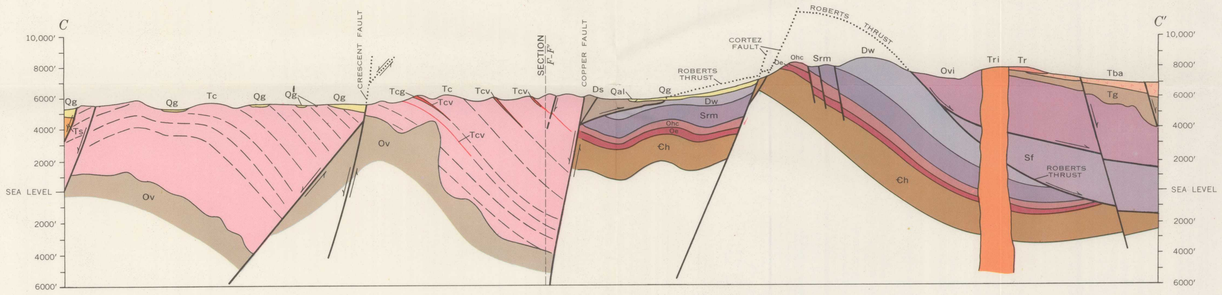
Strike and dip of foliation

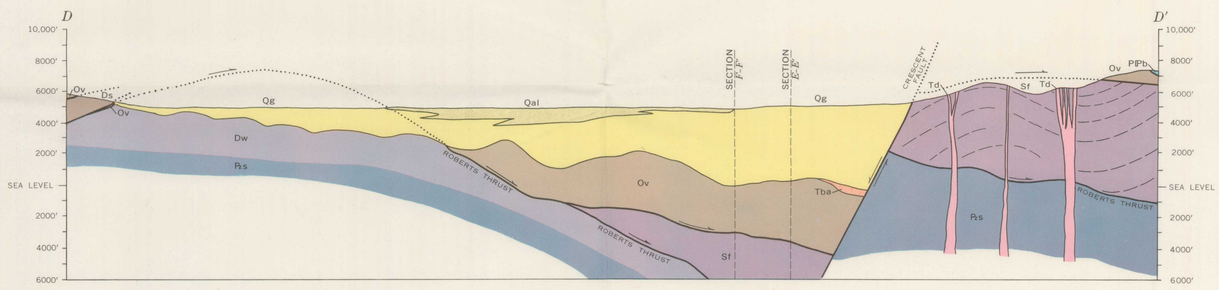
Dump

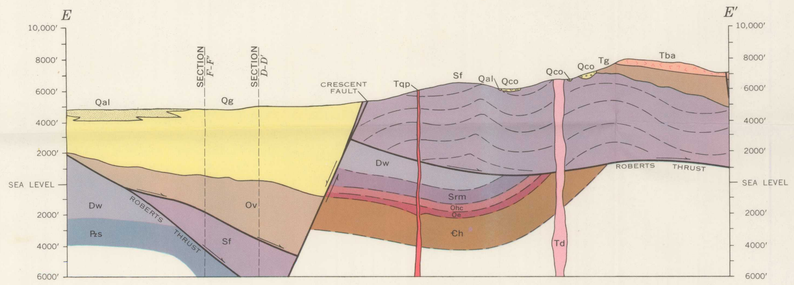
TRUE NORTH
MAGNETIC NORTH
17½°
APPROXIMATE MEAN DECLINATION, 1965

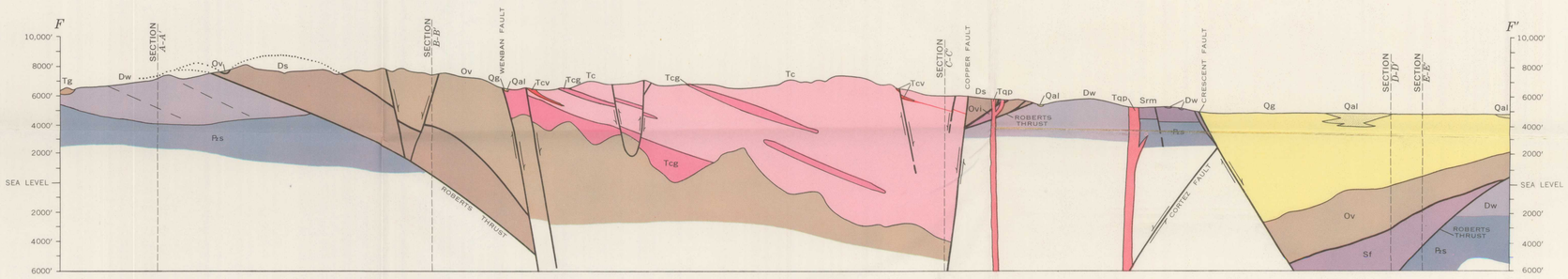












GEOLOGIC MAP AND SECTIONS OF THE CORTEZ QUADRANGLE, NEVADA