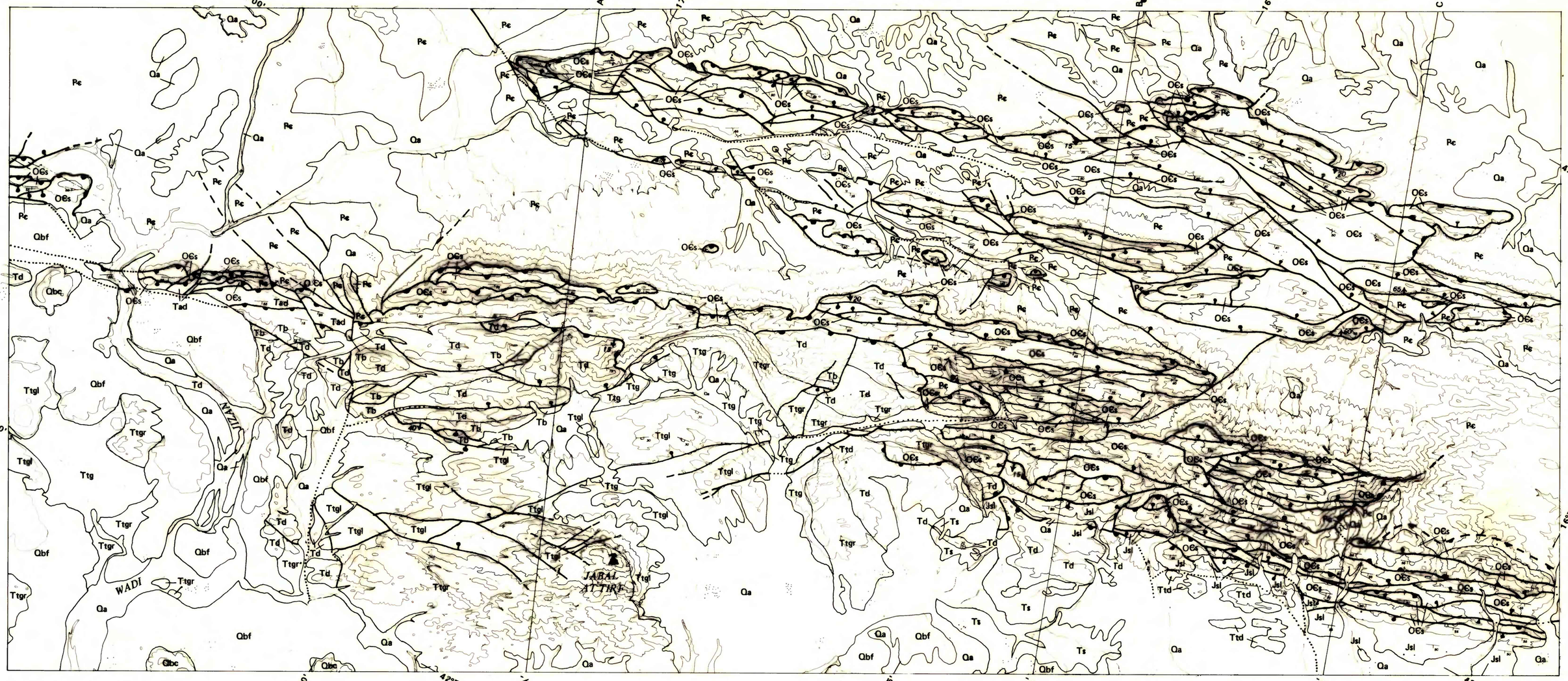
U.S. DEPARTMENT OF THE INTERIOR, GEOLOGICAL SURVEY, PREPARED FOR

MINISTRY OF PETROLEUM AND MINERAL RESOURCES
DEPUTY MINISTRY FOR MINERAL RESOURCES

KINGDOM OF SAUDI ARABIA

OPEN-FILE REPORT USGS-OF 87-512
PLATE 1



Topography from Unpublished USGS data,

Scale 1:50,000

1 0 1 2 3 KILOMETERS

Contour interval 10 meters

Geology mapped in Winter and Spring of 1984

This report has not been edited or reviewed for conformity with U.S. Geological Survey standards and nomenclature.

EXPLANATION

CORRELATION OF UNITS

Sedimentary and volcanic rocks

QUATERNARY

- Qa — Alluvium – Unconsolidated gravel, sand, and silt
- Qbf — Basalt flows – Dark colored mafic lavas
- Qbc — Basalt cones – Cinders, bombs, ash and flows

TERTIARY

Miocene

- Ts — Sedimentary rocks – Non-resistant clastic and chemical rocks

Miocene–Oligocene

- Td — Mafic to silicic tuffs and mafic to felsic flow rocks
- Tb — Cherty tuffaceous sandstone and mafic flow rocks

Oligocene

- Tad — Mafic lava flows

JURASSIC

- Jsl — Marine sandstone and limestone, commonly fossiliferous

ORDOVICIAN–CAMBRIAN

- OCs — Quartz-rich sandstone, cross-stratified

PRECAMBRIAN

- PC — Gneiss, schist and granitic rocks

Intrusive rocks

- Ttd — Tihamat Asir Complex Ttgr – Coarse to Medium grained granophyre Ttg – Coarse grained gabbro Ttgl – Coarse grained layered gabbro Ttd – dike swarms

SYMBOLS

- CONTACT
- NORMAL FAULT – Dashed where approximate, dotted where concealed. Ball and bar on downthrown side, arrow shows direction and amount of dip
- DETACHMENT FAULT – Dashed where approximate, dotted where concealed. Bumps on upper plate, arrows show direction and amount of dip

TECTONIC CONFIGURATION OF THE WESTERN ARABIAN RED SEA, KINGDOM OF SAUDI ARABIA

by
Robert G. Bohannon
1987