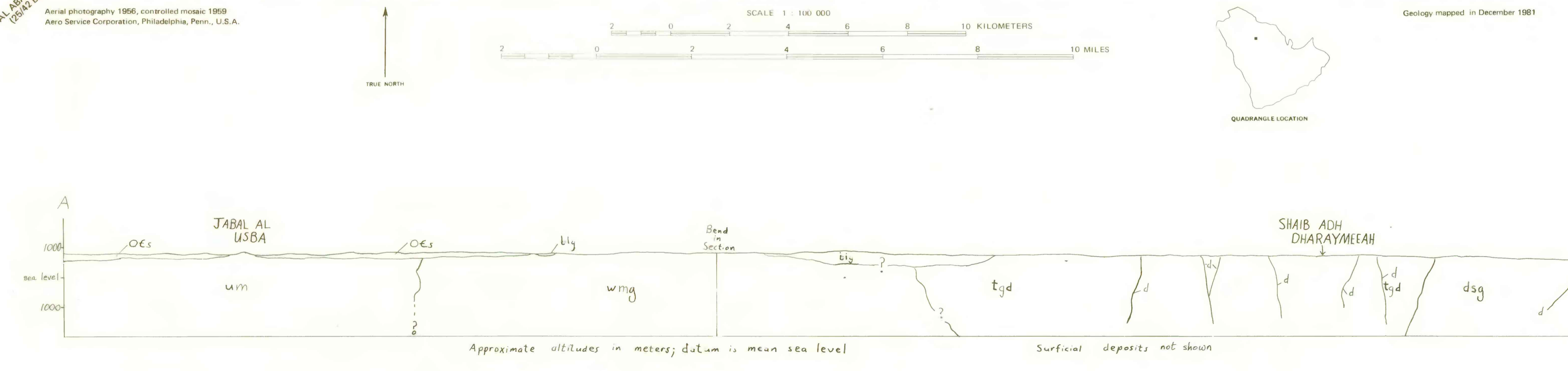


- DESCRIPTION OF MAP UNITS**
- SEDIMENTS AND SEDIMENTARY AND METAMORPHIC ROCKS**
- Qal** ALLUVIAL DEPOSITS--Undifferentiated surficial deposits including silt, sand, and gravel in wadi channels and pediment gravels
 - DSot** TABUK FORMATION--Three beds of red to pink, and light-gray, brown, and buff sandstone, locally micaceous; separated by gray, olive-brown, olive-green, purple, and varicolored micaceous silt and shale members. Exposed thickness about 35 m
 - OEs** SAQ SANDSTONE--Tan to reddish-brown, well sorted quartz arenite sandstone composed of medium to coarse, sub-angular to subrounded grains of monocrystalline quartz cemented by carbonate and locally by ferruginous material. Thickness about 600 m
 - blg** BUQAYA LITHIC GRAYWACKE--Immature, massive, fine- to medium-grained lithic graywacke containing clasts of subangular quartz, plagioclase, and volcanic lithic fragments in silt-size matrix composed of quartz, feldspar, and mica
- INTRUSIVE ROCKS**
- d** DIKES--Fine-grained, porphyritic, andesite to basalt containing hornblende and plagioclase; unit cuts Theebiyah granodiorite and includes a few very fine grained dacitic dikes that cut other plutons
 - q** QUARTZ PLUGS--massive, milky-white, hydrothermally-deposited quartz
 - um** USBA MONZOGANITE--Fine- to medium-grained, allotriomorphic inequigranular monzogranite containing 7 percent white mica; anomalously radioactive
 - qm** QARAYN MONZOGANITE--Medium-grained, allotriomorphic granular, porphyritic monzogranite containing anhedral phenocrysts of weakly perthitic potassium feldspar and 8 percent biotite
 - hmg** HAMRAH MONZOGANITE--Medium-grained, hypidiomorphic granular monzogranite containing perthitic subphenocrysts of potassium feldspar and 8 percent biotite
 - wmg** WAGT MONZOGANITE--Medium- to coarse-grained, hypidiomorphic inequigranular, perthitic microcline megacryst-bearing monzogranite containing 10 percent biotite
 - dsq** DHARAYMEEAH SYENOGANITE--Coarse-grained hypidiomorphic inequigranular syenogranite containing ferroedenite and biotite; color index, 7
 - tgd** THEEBIYAH GRANODIORITE--Mafic, medium-grained, hypidiomorphic inequigranular granodiorite containing hornblende and biotite; color index, 28; cut by prominent set of dikes
 - mpr** MAFIC PLUTONIC ROCK--Unusually mafic plutonic rock underlying two areas; the western outcrop is very fine grained actinolite-plagioclase metagabbro, the eastern outcrop is medium-grained hypidiomorphic inequigranular clinopyroxene gabbro; color index, 30
 - qnz** QUARTZ MONZODIORITE--Medium-grained, hypidiomorphic inequigranular quartz monzodiorite containing biotite and hornblende; color index, 35; crops out as small pluton south of Jabal al Usba

- SYMBOLS**
- CONTACT
 - STRIKE OF BEDDING--Dip undetermined
 - STRIKE OF FRACTURE CLEAVAGE--Dip undetermined
 - TREND LINES--Average trend of layering in metamorphic rock
 - MODS LOCALITY
 - ROCK QUARRY
 - TOWN OR VILLAGE
 - MICROWAVE TOWER
 - PAVED ROAD
 - UNPAVED ROAD



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

RECONNAISSANCE GEOLOGIC MAP OF THE JABAL SAQ QUADRANGLE, SHEET 26/43 C, KINGDOM OF SAUDI ARABIA

by
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 1983

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