U.S. DEPARTMENT OF THE INTERIOR, GEOLOGICAL SURVEY, PREPARED FOR
MINSTRY OF PETROLEUM AND MINERAL RESOURCES
DEPUTY MINISTRY OF MINERAL RESOURCES

KINGDOM OF SAUDI ARABIA

OPEN-FILE REPORT USGS-OF-84-794
PLATE 1

Aerial photography 1956 and controlled mosaic 1959
Aero Service Corporation, Philadelphia, Penn., U.S.A.

Geology mapped in November 1982 and May 1983

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

TRUE NORTH

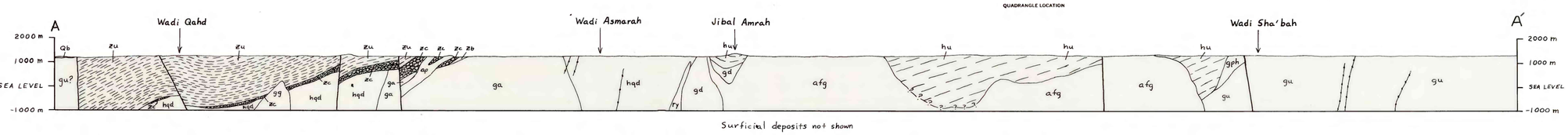
SCALE 1 : 100 000

2 0 2 4 6 8 10 KILOMETERS

2 0 2 4 6 8 10 MILES

DATUM IS MEAN SEA LEVEL

QUADRANGLE LOCATION



Surficial deposits not shown

RECONNAISSANCE GEOLOGIC MAP OF THE ZARGHAT QUADRANGLE, SHEET 26/40 B, KINGDOM OF SAUDI ARABIA

by
James E. Quick
1984

EXPLANATION

CORRELATION OF MAP UNITS

INTRUSIVE ROCKS

VOLCANIC AND SEDIMENTARY ROCKS

Qp Qal Qu — QUATERNARY
UNCONFORMITY
Qb — QUATERNARY
OEs — PALEOZOIC(?)
UNCONFORMITY
hpp ap gb di
gph ry
afga afg gg
mg gu
ga
gd
hqd
zm mag
zu
zb zc
hu
bg
PRECAMBRIAN
UNCONFORMITY

PRECAMBRIAN VOLCANIC AND SEDIMENTARY ROCKS

ZARGHAT FORMATION

- zu — Undivided volcanic and sedimentary rocks
- zm — Marble
- mag — Magnesite
- zb — Basalt
- zc — Conglomerate
- hu — HADN FORMATION
- bg — BANANA GREENSTONE

SYMBOLS

- CONTACT -- Dashed where approximately located, dotted where concealed
- FAULT -- Dashed where approximately located, dotted where concealed
- SYNCLINE -- Showing trace of axial plane
- 60 STRIKE AND DIP OF BEDS -- Inclined
- 20 STRIKE AND DIP OF FLOW LAYERING -- Inclined
- STRIKE AND DIP OF JOINTS
  - 70 Inclined
  - Vertical

DESCRIPTION OF MAP UNITS

CENOZOIC SEDIMENTS AND VOLCANIC ROCKS

- Qp — PLAYA-LAKE DEPOSITS
- Qal — ALLUVIUM
- Qu — UNDIVIDED QUATERNARY DEPOSITS
- Qb — BASALT

PALEOZOIC(?) SEDIMENTARY ROCKS

- OCs — SIQ SANDSTONE

PRECAMBRIAN INTRUSIVE ROCKS

- hpp — HORNBLENDE-PLAGIOCLASE PORPHYRY
- ap — APLITE
- gb — GABBRO
- di — DIABASE
- gph — GRANOPHYRE
- ry — INTRUSIVE RHYOLITE
- FELSIC DIKES
- afga — AMPHIBOLE ALKALI-FELDSPAR GRANITE
- afg — BIOTITE ALKALI-FELDSPAR GRANITE
- gg — GRAPHIC GRANITE
- mg — MONZOGRANITE
- gu — UNDIVIDED GRANITE
- ga — PRE-ZARGHAT GRANITE
- gd — GRANODIORITE AND TONALITE
- hqd — HORNBLENDE QUARTZ DIORITE