



LIST OF MAP UNITS

QUATERNARY SEDIMENTARY ROCKS

Qu UNDIVIDED QUATERNARY DEPOSITS

UPPER PROTEROZOIC TO LOWER PALEOZOIC
 VOLCANIC AND SEDIMENTARY ROCKS

j JIBALAH GROUP

UPPER PROTEROZOIC VOLCANIC
 AND SEDIMENTARY ROCKS

SHAMMAR GROUP(?)

sv Undivided silicic volcanic rocks
 cgl Conglomerate

HULAYFAH GROUP

hu Undivided basalt, andesite, and sedimentary rocks
 ht Andesite tuff breccia
 hw Wacke
 hb Basalt

LOWER PROTEROZOIC INTRUSIVE ROCKS

gb GABBRO
 gph GRANOPHYRE
 ga ALKALI GRANITE
 g UNDIVIDED GRANITE
 qd QUARTZ DIORITE
 d MICRODIORITE

FAULT-ZONE ROCKS
 (Stratigraphic relationships unknown)

mt HIGHLY DEFORMED SILICIC VOLCANIC ROCKS
 mw METAWACKE
 mb METABASALT
 (PG) PLAGIOGRANITE
 - - - - - DIABASE AND GABBRO
 a AMPHIBOLITE
 cg CUMULUS GABBRO
 du DUNITE
 um UNDIVIDED ULTRAMAFIC ROCKS

EXPLANATION OF MAP SYMBOLS

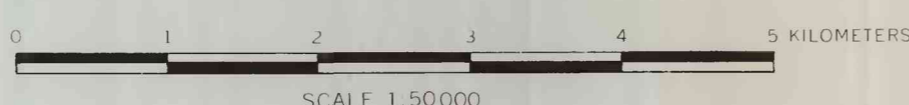
- CONTACT--Dashed where approximate, dotted where concealed
- FAULT--Showing dip; dashed where approximate, dotted where concealed; arrows show direction of strike slip
- ANTICLINE--Showing trace of axial plane and plunge direction of fold axis; dotted where concealed
- 50 STRIKE AND DIP OF BEDS--Inclined, showing inclination
- 70 STRIKE AND DIP OF SPINEL FOLIATION--Inclined, showing inclination
- 85 STRIKE AND DIP OF FOLIATION
 Inclined, showing inclination
 Vertical
- BEARING AND PLUNGE OF LINEATIONS AND FOLD AXES
- 25 F₁ generation
- 70 F₂ generation
- X 710 LOCATION OF GEOCHRONOLOGY SAMPLE--Showing age in millions of years
- SPINEL COMPOSITION
- Cr/(Cr+Al) < 0.63
- Cr/(Cr+Al) > 0.63

LITHOLOGY

Marble

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

Geology compiled by James E. Quick in 1986



GEOLOGIC MAP OF THE B'R TULUHAH AREA, KINGDOM OF SAUDI ARABIA

TECTONIC HISTORY OF THE NORTHERN NABITAH FAULT ZONE, ARABIAN SHIELD, KINGDOM OF SAUDI ARABIA

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