

LIST OF MAP UNITS

QUATERNARY SEDIMENTARY ROCKS

Qu UNDIVIDED QUATERNARY DEPOSITS

LATE PROTEROZOIC TO EARLY PALEOZOIC
 VOLCANIC AND SEDIMENTARY ROCKS

j JIBALAH GROUP

LOWER PROTEROZOIC INTRUSIVE ROCKS

- RHYOLITE DIKE
- UNDIVIDED DIKES
- gph GRANOPHYRE
- ga ALKALI-FELDSPAR GRANITE
- g UNDIVIDED GRANITE
- gd GRANODIORITE
- gb2 GABBRO OF THE RHARABA COMPLEX
- qd QUARTZ DIORITE

LATE PROTEROZOIC ROCKS OF B'R NIFAZI

METASOMATIC ROCKS

cr Carbonate-replaced basalt, diabase, or gabbro

VOLCANIC AND SEDIMENTARY ROCKS

- b Massive Basalt
- da Dacite
- vu Volcanic rocks, undivided: interbedded tuff, volcanic breccia, flows, wacke, and shale
- s Interbedded wacke, shale, and tuff
- bb Interbedded basaltic flows and flow breccia
- bl Interbedded pillow basalt and lahar deposits
- Gossan

INTRUSIVE, CUMULATE, AND UPPER MANTLE ROCKS

- db DIABASE WITH LOCAL VOLCANIC SCREENS
- gb MASSIVE GABBRO
- um INTERLAYERED ULTRAMAFIC AND GABBROIC ROCKS

EXPLANATION OF MAP SYMBOLS

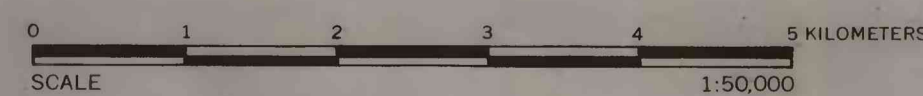
- CONTACT--Dashed where approximate, dotted where concealed
- FAULT--Showing dip; dashed where approximate, dotted where concealed; arrows show direction of strike slip
- STRIKE AND DIP OF BEDS**
- Inclined, showing inclination
- Overturned
- STRIKE AND DIP OF SPINEL FOLIATION--Inclined, showing inclination
- STRIKE AND DIP OF FOLIATION**
- Inclined, showing inclination
- Vertical
- LOCATION OF GEOCHEMISTRY SAMPLE--Showing last three numbers of six-digit number. All numbers have a prefix of 221
- SPINEL COMPOSITION**
- Cr/(Cr+Al) < 0.63
- Cr/(Cr+Al) > 0.63

LITHOLOGY

Marble

24°45'
41°15'

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 41°30' 24°45'

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

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

By
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1990