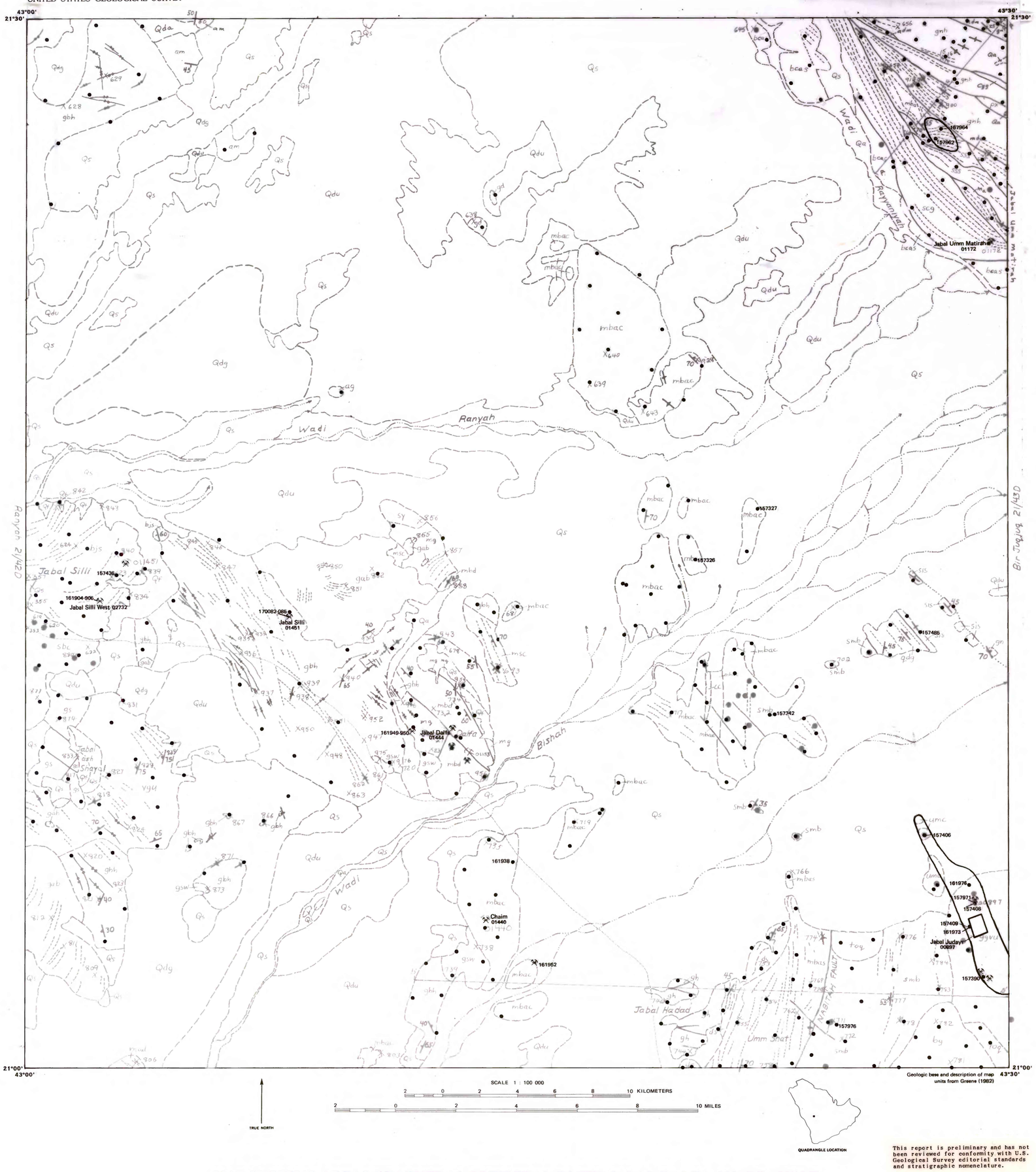
DEPARTMENT OF THE INTERIOR
UNITED STATES GEOLOGICAL SURVEY

KINGDOM OF SAUDI ARABIA

OPEN-FILE REPORT 83-372
PLATE 2



This report is preliminary and has not been reviewed for conformity with U.S. Geological Survey editorial standards and stratigraphic nomenclature.

MAP SHOWING AREAS OF MINERAL POTENTIAL IN THE JABAL DALFA QUADRANGLE, SHEET 21/43 C, KINGDOM OF SAUDI ARABIA

by
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EXPLANATION

DESCRIPTION OF MAP UNITS

SURFICIAL DEPOSITS

- Qdg — GIANT DUNES
- Qdu — URUQ DUNES
- Qa — ALLUVIUM
- Qf — ALLUVIAL FANS
- Qs — SAND AND GRAVEL

INTRUSIVE ROCKS

- ANDESITE DIKES
- sy — QUARTZ SYENITE
- ag — ALKALI-FELDSPAR GRANITE
- gd — GRANODIORITE
- gh — TWO-MICA GRANITE OF JABAL HADAD
- gsw — GRANITE OF JABAL DALFA SOUTHWEST
- gs — GRANITE OF JABAL ASH SHAYAL
- px — PYROXENITE
- gab — GABBRO--Medium- to dark-gray, medium- to coarse-grained; consists of plagioclase, clinopyroxene, olivine, opaque minerals, hornblende, and biotite
- toq — TONALITE, QUARTZ DIORITE, AND GRANODIORITE
- bg — TWO-MICA GRANITE
- gbh — GNEISS OF SHAIB HADHAQ--Granite, granodiorite, and tonalite gneiss, light-gray and pink, medium- to coarse-grained
- gn — AUGEN GNEISS
- qdy — QUARTZ DIORITE GNEISS
- gnt — TONALITE GNEISS
- gnh — HORNBLENDE-PLAGIOCLASE GNEISS AND PLAGIOCLASE-QUARTZ GNEISS--Dark-gray, fine-grained hornblende-plagioclase gneiss and light-brown, fine-grained plagioclase-quartz gneiss

MIXED ROCKS

- bjs — METAVOLCANIC AND INTRUSIVE COMPLEX OF JABAL SILLI--Metabasalt, amphibolite, meta-andesite, rhyodacite, rhyolite, gabbro, and pyroxenite
- vgu — METAVOLCANIC AND GRANITIC ROCKS OF URAYYIQ--Granite, granodiorite, and tonalite gneiss, metabasalt, and granofels
- mg — METABASALT OF JABAL DALFA AND GNEISS OF SHAIB HADHAQ
- ggvu — METAGABBRO, GRANITE, AND METAVOLCANIC AND ULTRAMAFIC ROCKS--Includes metabasalt, meta-andesite, serpentinite, and talc schist
- mad — META-ANDESITE AND DIORITE

METAVOLCANIC AND METASEDIMENTARY ROCKS

- sbc — SERPENTINITE, AND METAVOLCANIC AND CARBONATE ROCKS--Includes amphibolite, metabasalt, meta-andesite, and carbonate rocks
- am — AMPHIBOLITE
- cc — CONGLOMERATE
- mbac — METABASALT AND META-ANDESITE OF CENTRAL BELT--Medium- to dark-gray and greenish-gray, fine-grained to aphanitic; consists mostly of plagioclase, actinolite, and epidote

ARFAN FORMATION

- adm — Metadacite and meta-andesite
- cgg — Sandstone and conglomerate
- mda — Metadacite and meta-andesite
- mba — Metabasalt
- sss — Metaquartzose sandstone and serpentinite
- ma — Meta-andesite
- scg — Sandstone, conglomerate, and meta-andesite
- bcas — Metabasalt, meta-andesite, carbonate rock, and serpentinite
- ds — DACITE AND DACITE TUFF--Includes some rhyodacite
- mbas — METABASALT AND META-ANDESITE OF UMM SHAT--Medium- to dark-gray and greenish-gray, fine-grained and locally porphyritic; consists mostly of plagioclase, actinolite, epidote, and quartz
- sis — SILTSTONE AND SANDSTONE
- umc — ULTRAMAFIC-CARBONATE ROCKS--Anthophyllite-carbonate rock and serpentine-carbonate rock
- smb — SERPENTINITE, MARBLE, AND METABASALT--Includes black and light-greenish-gray serpentinite
- q — QUARTZITE
- msc — METASILTSTONE AND CARBONATE ROCKS
- mbd — METABASALT OF JABAL DALFA--Dark-gray to black, fine- to medium-grained; consists mostly of plagioclase, amphibole, and clinopyroxene

SYMBOLS

- CONTACT
- FAULT--Dotted where concealed
- STRIKE OF FOLIATION OR LAYERING--Observed on aerial photographs
- INTERMITTENT STREAM OR DISTRIBUTARY CHANNEL
- STRIKE AND DIP OF BEDDING
  - 70 — Inclined
  - Vertical
- STRIKE AND DIP OF FOLIATION
  - 60 — Inclined
  - Vertical
- SERPENTINITE OUTCROP
- ANCIENT MINE OR PROSPECT
- 00897 — MINERAL OCCURRENCE DOCUMENTATION SYSTEM (MODS) NUMBER
- X753 — SAMPLE LOCATION AND FIELD NUMBER
- ROAD

- Potentially favorable mineral resource area
- Sample location
- 161511 — Location and Rock Analysis Storage System (RASS) number of anomalous sample
- Ancient mine or prospect
- 01451 — Mineral Occurrence Documentation System (MODS) number