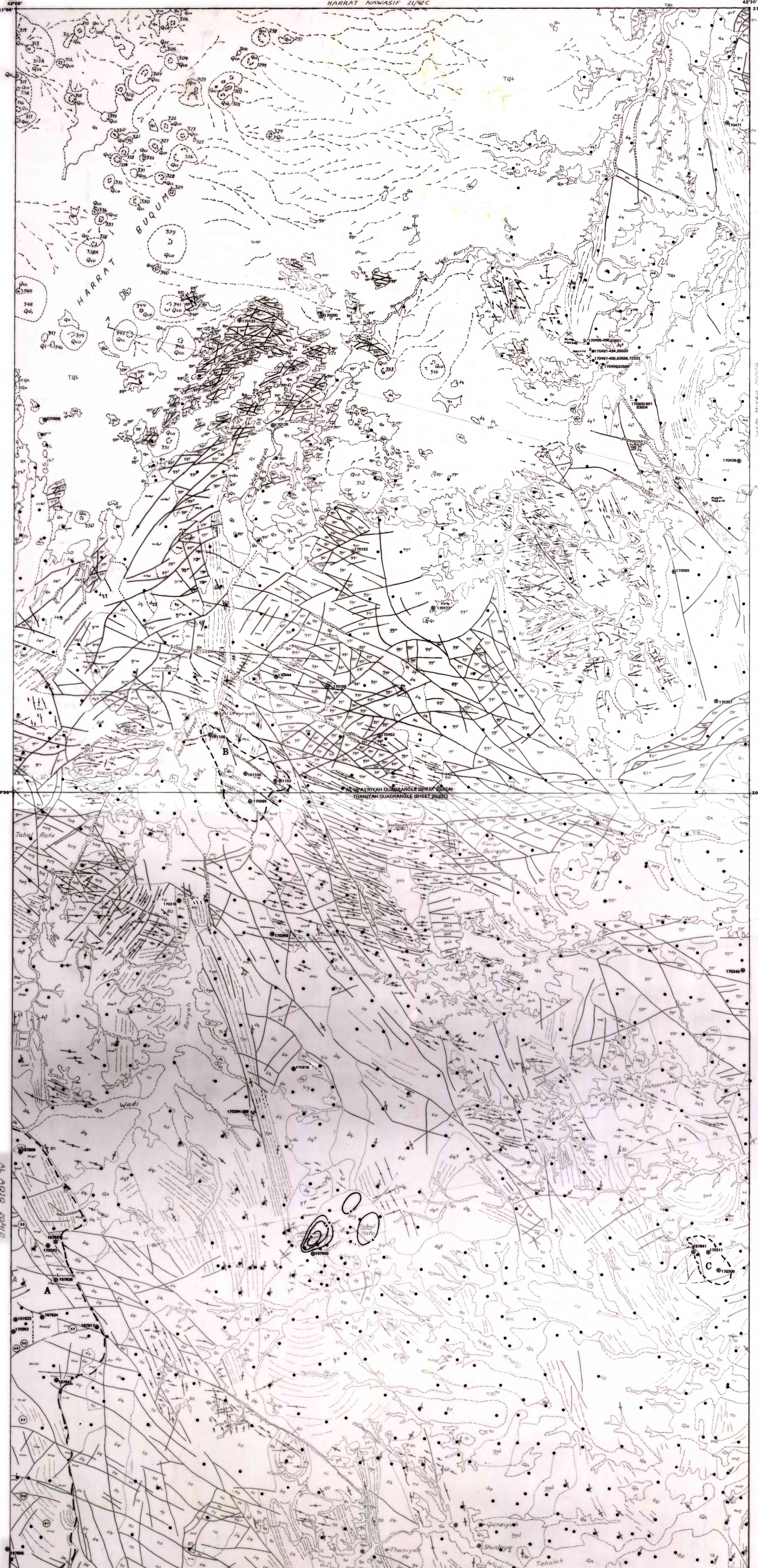


HARRAT NAWASIF 21/42C



EXPLANATION

DESCRIPTION OF MAP UNITS
(Adapted from Greene, 1982a, b)

Qa	ALLUVIUM
Qs	SILT, SAND, AND GRAVEL
Ql	LAVA CONES
Qsh	SHIELD VOLCANOES
Qco	COMPOSITE CONES
Qcc	CINDER CONES
Qob	BASALT FLOWS
—	METABASALT AND META-ANDESITE DIKES
grw	MONZOGRAHITE
ggr	GRAPHIC GRANITE AND RHYOLITE
ggr	GRANITE AND GRANDIORITE
grf	PERTHITE GRANITE, FINE-GRAINED
grs	PERTHITE GRANITE OF JABAL SULYI
bg	BIOTITE GRANITE
blg,q	TWO-MICA GRANITE; q, QUARTZ
gab	GABBRO
dg	DIORITE AND GABBRO
yt	KHALIJ TONALITE AND QUARTZ DIORITE
tgn	TONALITE GNEISS
to	TONALITE AND QUARTZ DIORITE
dq	DIORITE AND QUARTZ DIORITE
tog	TONALITE AND GRANITE
dgg	DIORITE AND GRANITE
dqt	DIORITE AND TONALITE
meg	METAVOLCANIC ROCKS OF EASTERN BELT AND GRANITE
rh	RHYOLITE
mc	METAVOLCANIC ROCKS OF CENTRAL BELT AND DIORITE
mw	METAVOLCANIC ROCKS OF WESTERN BELT AND TONALITE
mwd	METAVOLCANIC ROCKS OF WESTERN BELT AND DIORITE
mm	MARBLE AND METASEDIMENTARY AND METAVOLCANIC ROCKS
qz	QUARTZITE
ml	LAYERED METAVOLCANIC ROCKS
me	METAVOLCANIC AND METASEDIMENTARY ROCKS OF EASTERN BELT
mc	METAVOLCANIC AND METASEDIMENTARY ROCKS OF CENTRAL BELT
mw	METAVOLCANIC ROCKS OF WESTERN BELT

CONTACT

FAULT--Dashed where inferred; dotted where concealed

TREND LINES--Strike of foliation or layering as observed on aerial photographs

STRIKE AND DIP OF BEDS
Inclined, showing amount of dip in degrees
Vertical

STRIKE AND DIP OF FOLIATION
Inclined, showing amount of dip in degrees
Vertical

AIRBORNE RADIOMETRIC ANOMALY--Contour values in multiples of background. Data from Consortium Members (1966)

ANCIENT MINE--Indicates copper mine (symbol alone) in Thaniyah quadrangle; MDS number and type of mineral occurrence in Al Ufayriyah quadrangle

VOLCANIC CRATER--Some breached; identification number (see Greene, 1982b)

DIRECTION OF LAVA FLOW

INTERMITTENT STREAM--In Wadi Ranyah, shown where channel consists entirely of bedrock

VILLAGE

POTENTIALLY FAVORABLE MINERAL RESOURCE AREA

SAMPLE LOCATION

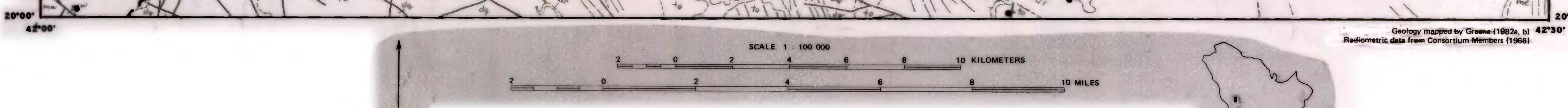
LOCATION AND NUMBER OF SAMPLE IN FAVORABLE RESOURCE AREA--Samples in 73000- and 83,000-number series collected by D. L. Schmidt (1980); those in 157,000-number series collected by R. C. Greene; those in 161,000- and 170,000-number series collected by M. D. Fenton

MINERALIZED LOCATION--Identified by Cheeseman (1982); see table 1

LOCALITY NUMBER--Gold-bearing quartz vein identified by Schmidt (1980). See table 2.

AL AQIQA 20/41 D

AL JUNAYNAH 20/42 D



MAP SHOWING AREAS OF MINERAL POTENTIAL IN THE THANIYAH AND AL UFAYRIYAH QUADRANGLES, SHEETS 20/42 C AND 20/42 A, KINGDOM OF SAUDI ARABIA

by
Michael D. Fenton
1983

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