68-276

Explanation

QUATERNARY	Qt	**Terrace alluvium** Gravel, sand, and silt
	Qu	**Silt and gravel** Unconsolidated surficial deposits of silt, sand, alluvium and gravel
TERTIARY MIOCENE	TRA	**Raghama formation** Gypsum, shale, olive green to buff limestone and sandstone, red arkose, pebble conglomerate, coarse conglomerate, and poorly indurated gravels. Clastic beds are locally limy and fossiliferous.
PRECAMBRIAN	gh	**Hornblende granite** Red, medium to coarse grained, alkalic hornblende granite; lamprophyre and red, silicic porphyry dikes common; in part, coarse grained biotite granite and other types.
	gd	**Greenstone** Dark red to black, rhyolite and andesite flows, porphyritic, cut by granitic dikes. Exposed in core of an eroded dome west of Jabal al Musayr.

Geologic contact
Long dashed where approximately located; short dashed where indefinite; dotted where concealed.

Fault or shear zone
Dashed where approximately located

⊥ **Strike and dip of beds**

● **Wadi sand sample location having 20 ppm or less copper, 100 ppm or less zinc, and 2 ppm or less molybdenum.**

□ **Sample with 3 to 7 ppm molybdenum in wadi sand (located by adjacent copper symbol)**

X **Rock sample location**

4162 **Sample number**

(4166) **Rock sample submitted for chemical analysis (located by adjacent copper symbol)**

4162 X TH **Rock sample with thin section.**

28°00'
34°00'

AERIAL PHOTOGRAPHY 1957 AND CONTROLLED MOSAIC 1959
AERO SERVICE CORP. PHOTOGRAMMETRIC ENGINEERS
PHILADELPHIA 20, PENNSYLVANIA, U. S. A.

10 000 0 10 000 20 000 30 000 40 000 FEET
2 0 2 4 6 8 10 KILOMETERS
SCALE 1: 100 000

MAQNA QUADRANGLE

SHOWING SAMPLE LOCATIONS AND GEOLOGY

GEOLOGY REVISED BY TRENT, V.A., AND JOHNSON, R.F., USGS, 1964.
ORIGINAL GEOLOGY FROM BRAMKAMP AND OTHERS, 1963.

28°00'
35°00'

KINGDOM OF SAUDI ARABIA
MINISTRY OF FINANCE AND NATIONAL ECONOMY