Geologic Map of the Diamond Joe intrusive complex, Hualapai Mountains, Mohave County, Arizona

THE UNIVERSITY OF ARIZONA COLLEGE OF SCIENCE
ARIZONA GEOLOGICAL SURVEY

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COLLEGE OF SCIENCE Geosciences

Arizona Geological Survey Contributed Map 25-A

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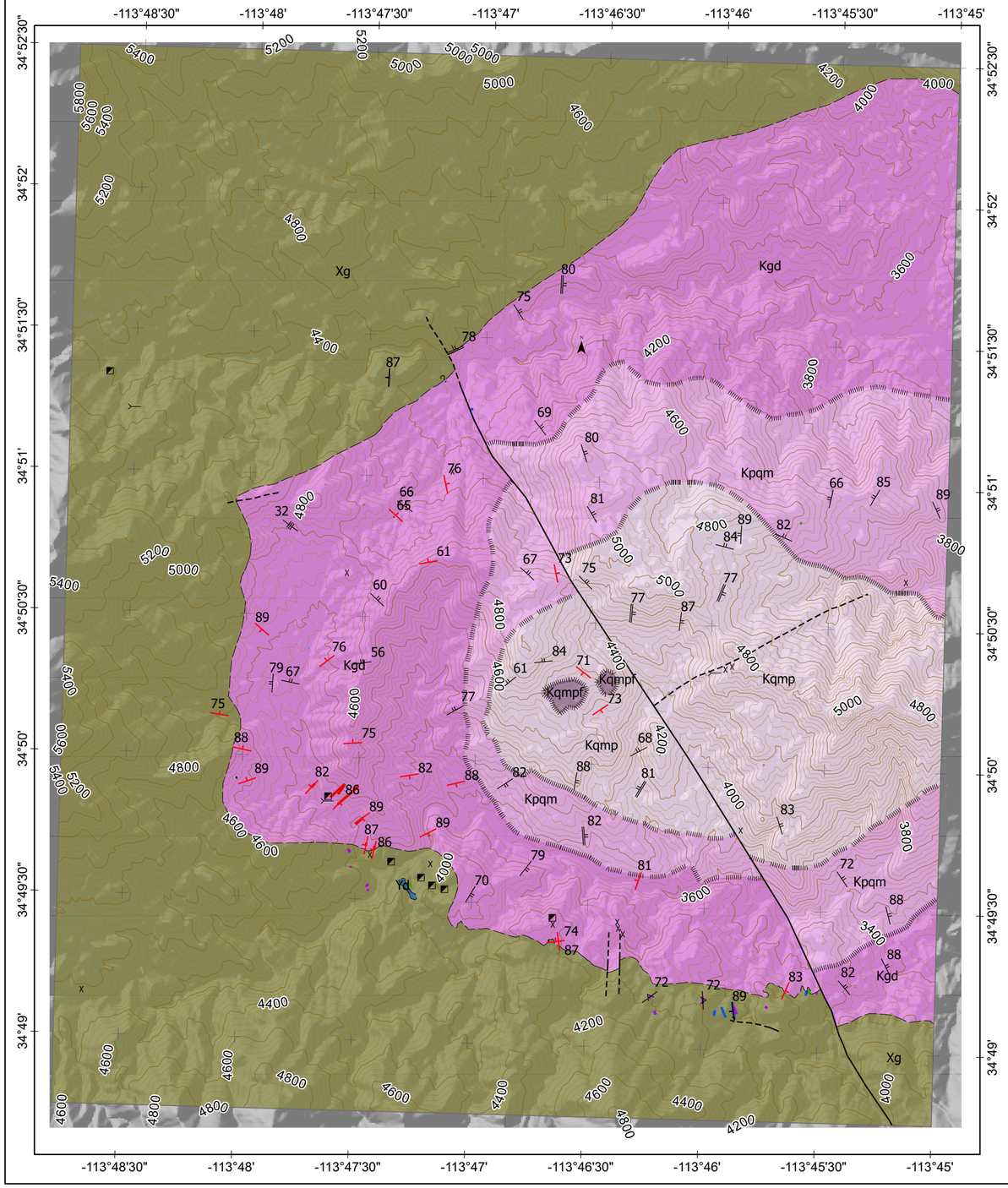


UNIT DESCRIPTIONS

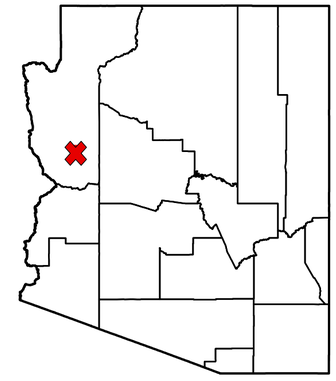
- **Kqmpf** Diamond Joe quartz monzonite porphyry fine-grained (Cretaceous): fine-grained facies of Kqmp (< 1cm size).
- **Kqmp** Diamond Joe quartz monzonite porphyry (Cretaceous): inequigranular coarse-grained porphyry composed of K-feldspar phenocrysts (> 20%) of ≥ 2cm size and K-feldspar, plagioclase and quartz groundmass.
- **Kpqm** Diamond Joe porphyritic quartz monzonite (Cretaceous): equigranular medium- to coarse-grained monzonite composed of K-feldspar, plagioclase, and quartz. Incorporation of K-feldspar phenocrysts (< 20%) of ≤ 2cm size.
- **Kgd** Diamond Joe granodiorite (Cretaceous): equigranular medium- to coarse-grained granodiorite, composed of plagioclase, K-feldspar, quartz, and minor interstitial biotite and magnetite (± hematite).
- **Yd** Diabase dikes (Proterozoic): aphanitic to very fine-grained mafic dikes, composed of pyroxene, plagioclase, and minor Fe-oxides, chlorite, and epidote.
- **Xg** Granite and granitic gneiss (Proterozoic): equigranular medium- to coarse-grained plagioclase-rich granite and granitic gneiss.

CONTACTS AND FAULTS

- Contact, accurate
- Contact, approximate
- Contact, approximate and questionable
- Gradational contact, accurate
- Gradational contact, approximate
- Fault, accurate
- Fault, approximate
- Quartz vein
- Porphyry dike
- Lamprophyre dike (Czl)
- Diabase dike (Yd)
- Pegmatitic dike (Xlg)

SYMBOLS

- Contact/Fault dip
- Quartz vein
- Greisen vein
- Felsic dike
- Chlorite vein
- Pegmatitic dike
- Prospect
- Adit
- Vertical shaft



Scale 1:24.000

0 0.25 0.5 1 Miles

0 0.38 0.75 1.5 Km

TN MN

Magnetic declination: 10.45°

Contour Interval: 40 feet

Base map hill shade derived from USGS DEM topographic data. UTM NAD 83 grid and lat-long coordinates produced in ESRI ArcGIS Pro v. 2.9

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