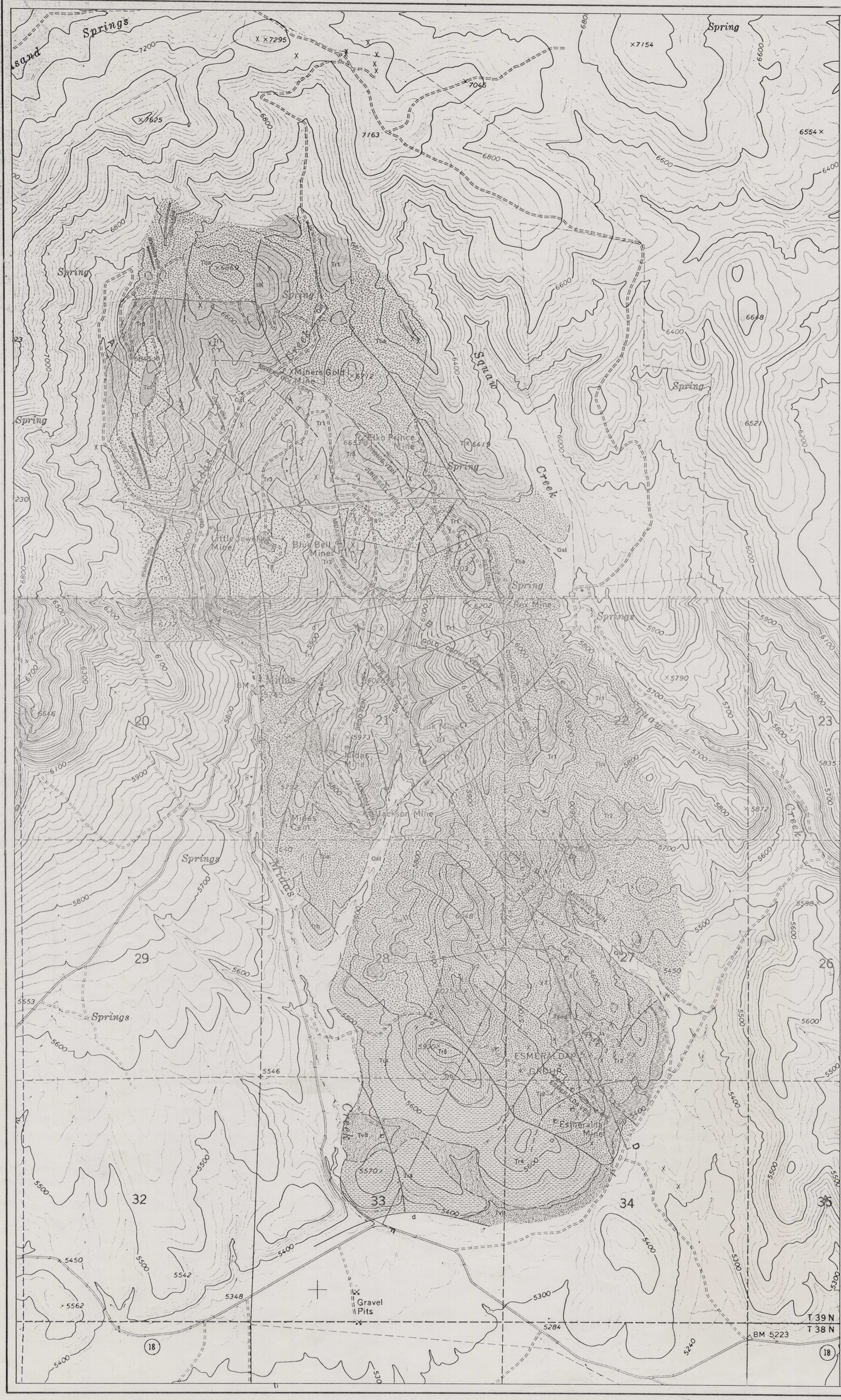


PLATE 1

# GEOLOGIC MAP OF THE GOLD CIRCLE DISTRICT

ELKO COUNTY, NEVADA

by Keith R. Blair

(Modified from Rott, 1931 and Abrams, Blair, and Kaufman, 1986.)

1989

Scale 1:12000

1 inch = approx. 1000 feet

1000 500 0 1000 ft.

## DESCRIPTION OF MAP UNITS

**Qal** Alluvial deposits, Quaternary

**Tr5** Brown, crystal-rich rhyolite flow with phenocrysts of quartz and sanidine. (Similar to Tr4 described below)

**Trb** Brown-red, flow banded rhyolite breccia; flow-top breccia of Tr4?

**Tr4** Brown, crystal-rich rhyolite flow with phenocrysts of quartz and sanidine in a siliceous groundmass.

**Tvit** Grey to black perlitic vitrophere with quartz and sanidine phenocrysts and minor rock fragments.

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**Tct** Light brown to buff tuffaceous unit. Locally contains flattened pumice fragments indicating slight welding.

**Tlt** Lithic tuff with dark brown devitrified lithic fragments containing scattered oligoclase phenocrysts in a tuffaceous matrix composed of glass shards and fine dust. The base of this unit is a thin glassy chill zone. Maximum thickness is approximately 200 feet.

**Tr3** Brown to grey, flow banded, siliceous rhyolite with oligoclase and minor quartz phenocrysts. (June Bell Rhyolite of Rott, 1931.) This unit varies in thickness with the maximum between 200 and 300 feet. The June Bell Rhyolite is possibly a small flow dome.

**Tr2** Amygdaloidal/vesicular rhyolite. Grey to brown rhyolite flow with chalcedony and amethyst filling vesicles in a fine, locally perlitic, groundmass. Basal portion of this unit is flow banded. Shows crude column development.

**Tsed** Light brown, laminated, fissile lake sediments with thin grit horizons. Locally contains plant debris.

**Tr1** Light green to buff rhyolite. Characterized by oligoclase pheonocrysts in a fine grained devitrified groundmass locally containing pumice fragments. (Elko Prince Rhyolite of Rott, 1931.) Thickness is variable. This rhyolite and the units above are cut by andesite and dacite dikes in the northern portion of the district.

**Tba** Green to brown, equigranular to porphyritic basaltic andesite with phenocrysts of andesine and augite in a fine-grained glassy groundmass. Dated at 15.4 my.

**Contacts**

**Faults:** "d" appears on downthrown side where offset is known. Dashed line where fault is inferred.

**Veins:** Circles indicate silicification, quartz veining, visible sulfide mineralization, or brecciation or any combination of these. Squares indicate quartz-carbonate veining in andesite.

**Attitude of flow banding**

TRUE NORTH
MAGNETIC NORTH
17½°

NEVADA

Base from U.S. Geological Survey 1:24000 Oregon Canyon and Midas topographic quadrangles.

2090 0038

2090 0035

See geologic sections

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Item M2