



OLD DICK MINE AREA

EXPLANATION  
Geology after Anderson 1974-6, NEL 1979

- Tertiary/Cretaceous
- Quaternary
- Intrusive Rocks
  - G Granite and Pegmatite, often with quartz or quartz-bearing veins & masses.
  - Ig Lower Granite (granophyre), massive basalt with large orthoclase phenocrysts. Age 14.8 by
- Buller Formation
  - Ge Geodetic, Age 1.5 by
  - Ap Andesite porphyry sill in Red Cloud area
  - gs Gabbro (S diabase) sills & dykes
- Precambrian
  - Bf Buller Falls Tuff? (east of Dick Mine); largely intermediate facies; tuffaceous massiveness; thin dacite flow, minor rhyolite porphyry flows. Volcanic (A) lower rhyolite tuff, (B) coarse-grained basaltic tuff, (C) upper rhyolite tuff, (D) lower rhyolite tuff, (E) upper rhyolite porphyry, (F) dacite flows (D) chlorite & siliceous massiveness, increasing metamorphism to southwest.
  - E Exhalite, oxide iron formation (low), silica (S), chlorine sulphide (Culiver), Red Cloud, Queen Bee horizon.
  - Rt Rhyolitic tuff; generally 1-2%, disseminated sills.
  - W White serpentine rhyolite; intrusive-neckline dikes; flows & short exhalites (Clay St horizon); lamellar fracture and d.s.
  - D Dick rhyolite porphyry; basaltic quartz phenocrysts; massive & massive types; Chlorite (C) and Sericite (S) phases. Local breccia zone.
  - Ak Alaska, quartz & alkali phenocrysts; intrusive nature; local contact metamorphism. Granite phase forms massive "slabs".
  - Ac Alaskite contaminated with Bridle mafic rocks.
  - Ex Exhalite, silica, chlorine sulphide (Old Dick Mine and Pinefore 7 horizon).
  - Rt Rhyolitic tuff and fragments.
  - Bf Buller Falls Tuff (east of Dick Mine); largely intermediate facies; tuffaceous massiveness; thin dacite flow, minor rhyolite porphyry flows. Volcanic (A) lower rhyolite tuff, (B) coarse-grained basaltic tuff, (C) upper rhyolite tuff, (D) lower rhyolite tuff, (E) upper rhyolite porphyry, (F) dacite flows (D) chlorite & siliceous massiveness, increasing metamorphism to southwest.
  - Bridle Formation
    - Br Bridle mafic rocks

QUATERNARY  
 TERTIARY/CRETACEOUS  
 Intrusive Rocks  
 Buller Formation  
 Precambrian  
 Bridle Formation

**NEWMONT EXPLORATION LIMITED**  
**TUCSON, ARIZONA**  
**GEOLOGIC MAP**  
**OF THE**  
**BAGDAD PROJECT AREA**  
**TAVAPAI COUNTY, ARIZONA**  
 J.N.M. / J.P.G.      Scale: 1" = 500'      JUNE, 1979  
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