PLATE 1

GEOLOGIC MAP OF THE WASHINGTON CAMP–DUQUESNE MINING DISTRICT PATAGONIA MOUNTAINS SANTA CRUZ COUNTY, ARIZONA

Geology by N.E. Lehman 1970–71
Topography by J.P. Jemmett 1968

500 400 300 200 100 0 250 500 FEET
CONTOUR INTERVAL : 10 FEET

PATAGONIA 18.5 MI

NOGALES 18.3 MI.

LOCHIEL 4.5 MI.

48 000E

50 000E

54 000N

52 000N

50 000N

48000 E

50 000 E

LEGEND

QUATERNARY
- Talus and alluvium
UNCONFORMITY
- Qtal — Deformed gravel and valley fill
UNCONFORMITY

TERTIARY
- Tpg — Patagonia granodiorite
- Tgd — Granodiorite dikes and sills
- Tg — Alaskite and granite dikes and sills
- Twg — Washington Camp porphyritic granodiorite

CRETACEOUS OR TERTIARY
- TKdb — Diorite intrusive(?) breccia
- TKd — Diorite
- TKa — Porphyritic andesite sills

JURASSIC OR TRIASSIC
- JRd — Andesite to rhyolite dikes and sills
- JRb — Rhyolite tuff and tuff breccia
- JRwu — Upper rhyolite welded tuff, cg, volcanic conglomerate
- JRlu — Upper quartz latite flow(?)
- JRwl — Lower rhyolite welded tuff
- JRt — Rhyolite and trachyte tuffs
- JRrt — Flow contorted rhyolite
- JRll — Lower quartz latite flows, tuffs, and welded tuffs
- JRr — Rhyolite flows and tuffs

Duquesne Volcanics
UNCONFORMITY

PERMIAN
- Pcn — Concha Limestone
- Psu — Upper hornfelsed siltstone
- Psm — Middle carbonate member
- Psl — Lower quartzite member

Scherrer Quartzite
- Pec — Cherty marble member
- Pem — Silty marble member
- Peh — Hornfelsed siltstone member
- Ped — Dolomite member

Epitaph Dolomite

PENNSYLVANIAN
- Pc — Colina Limestone
- PPe — Earp Formation, hornfels stippled
- Ph — Horquilla Limestone

- Quartz breccia derived from the Scherrer Quartzite
- Volcanic breccia
- qsr — Quartz–sericite–tourmaline breccia
- qs — Quartz–sericite altered granodiorite
- q — Massive quartz
- sk — Garnet skarn

Brecciated and/or hydrothermally altered rocks

Contact, dashed where inferred or concealed

Faults, showing dip, short dashed where covered U, upthrown side, D, downthrown side

Anticline — Syncline
Overturned anticline — Overturned syncline
Folds showing direction of plunge

Inclined — Vertical — Overturned

Strike and dip of bedding

Inclined — Vertical

Strike and dip of foliation

Inclined — Vertical

Strike and dip of joints

Prospects and shafts — Adit — Claim corner — Survey station — Building

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