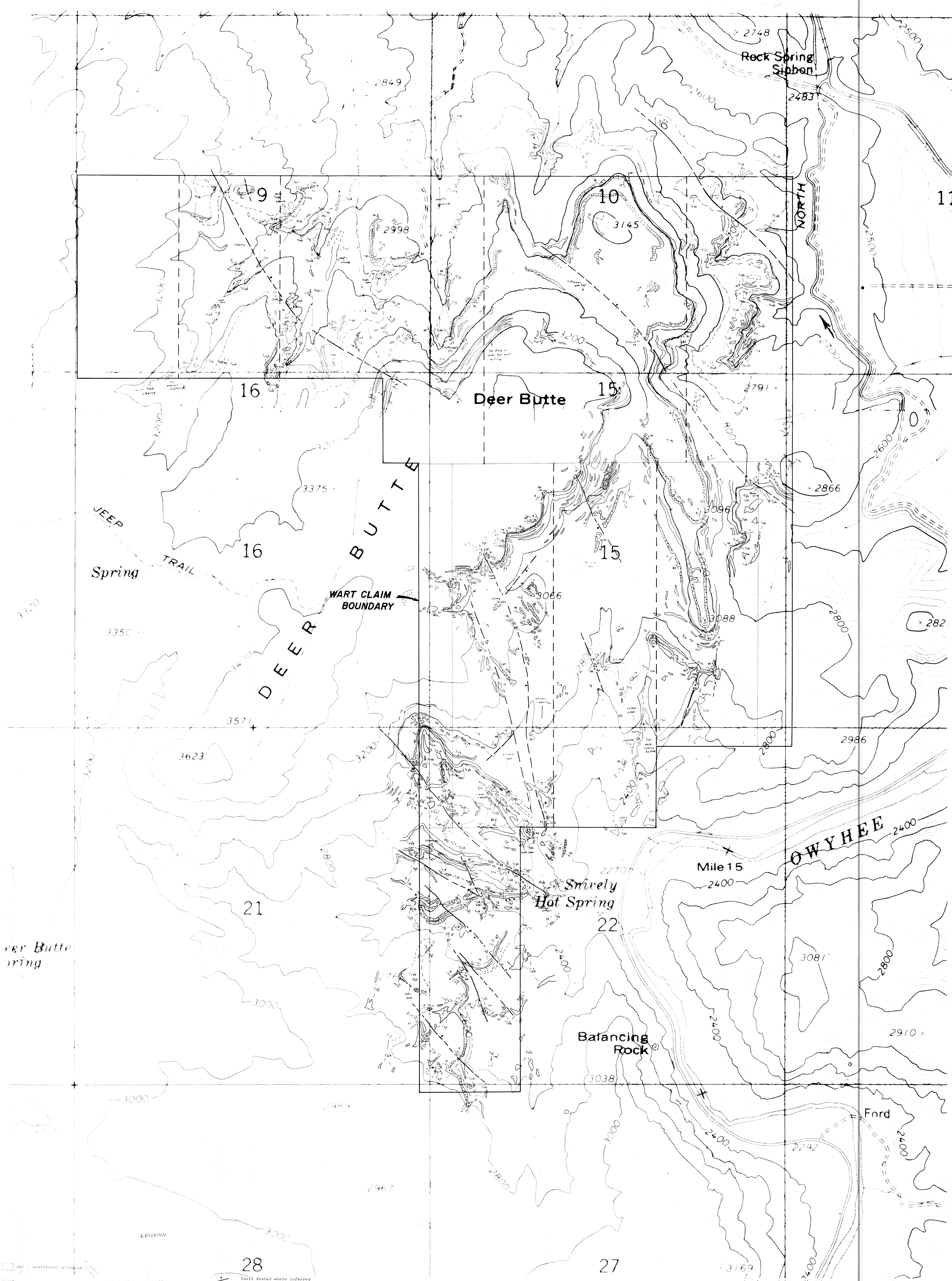

LEGEND

Qal - Quaternary alluvium.

Tig/Tic - Deer Butte sediments, mainly buff colored tuffaceous sandstone and siltstone with lenses of black chert pebble conglomerate (Tig). Chalky white limestone beds a few inches to several feet in thickness occur lower in the section (Tic).

Trsb/Trs - Rock Springs Basalt (Trsb) and intercalated sediments (Trs). Dark greenish-black olivine basalt flows. Lower contacts characterized by chaotic zones of baked soils and quench features. Normal magnetic polarity. Flows are poorly float and granular soils. Interbedded tuffaceous sediments (Trs) contain scoriaceous basalt clasts and rarely, black chert pebbles.

Tgs - Grassy Mountain Formation. Interbedded arkose, coarse-cobble conglomerate, and tuffaceous siltstone. Granite, quartz, and rhyolite cobbles common near the top of the sequence. Arkose units typically show cross-bedding and and weather a characteristic pinkish orange.

Tkt - Kern Basin Tuff. Nonwelded white to pale yellow lithic tuff containing pumice lapilli and angular fragments of flow-banded rhyolite. Surge cross-bedding and some evidence of reworking by water is common lower in the section with a thick upper tuff breccia horizon containing clasts of rhyolite up to several feet in diameter.

Tob/Tbb - Owyhee and Blackjack basalts (undifferentiated). Flow on flow basalt, basaltic andesite, and andesite. Contact with overlying units may be marked by bright red soils developed on non-welded scoria and lithic tuff.

Fault dashed where inferred

Strike and dip of fractures

Shear zone

Strike and dip of bedding

Slump

Breccia zone

0 500 1000 1500
SCALE 1" = 500'

N

Atlas Precious Metals, Inc.

DEER BUTTE
T 21 S, R 45 E MALHEUR CO., OREGON

GEOLOGY

DATE:
DRAWN BY:
DRAFTED BY: