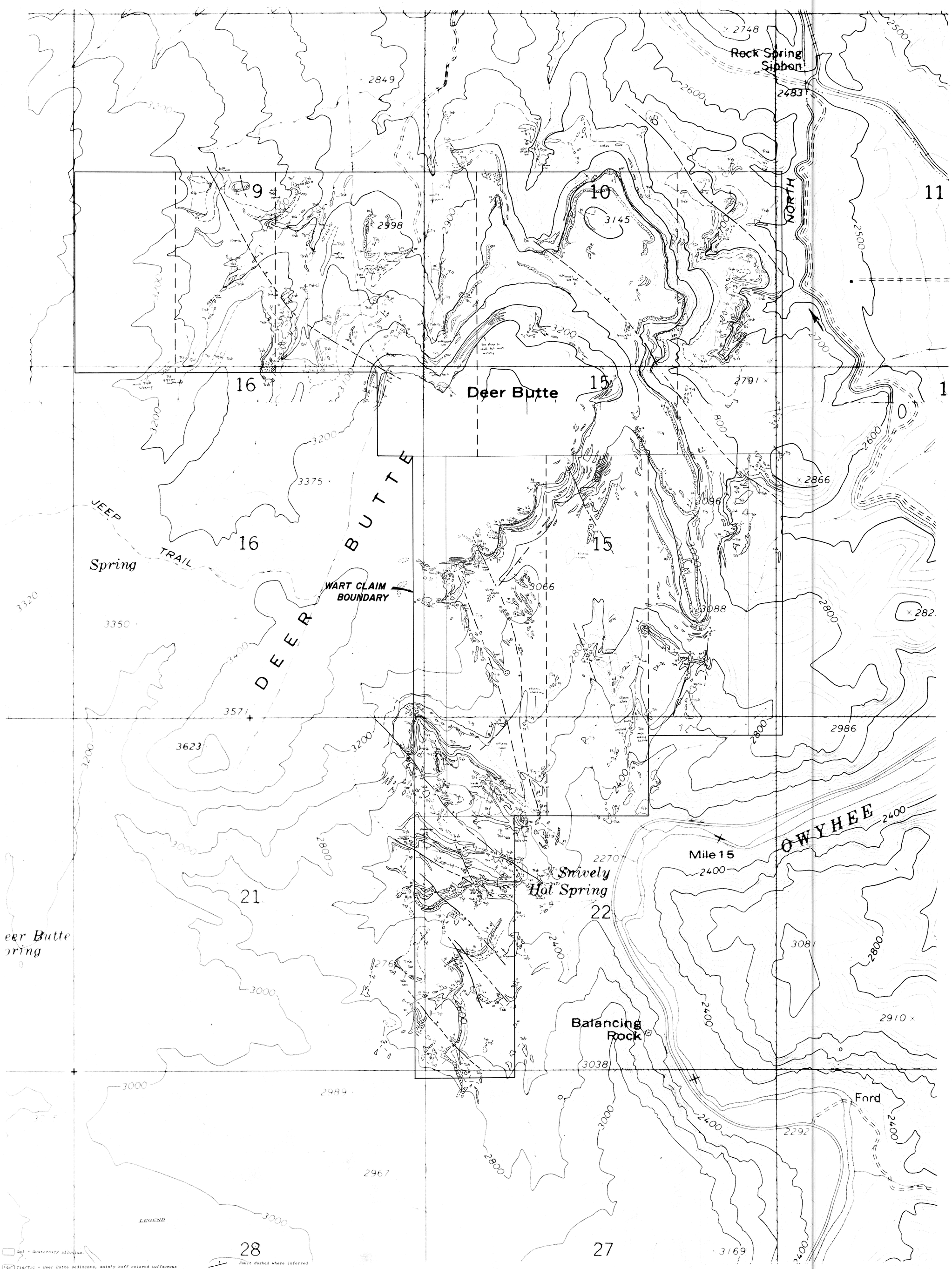

LEGEND

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 [illegible] 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:	