Name: Copper Gem Group - 9 claims
Owner: H. D. Green and associates
Location: On Adams Cr., W. Fk Wallowa, S3 sec. 6, T. 4 S., R. 45 E., unsurveyed
Area: 9 claims

History: Located in 1906 by Green & Adams, 300' tunnel in gangue along contact; incorporated in 1907 or 1908 as the Copper King Group and Mt. Gem. Went broke, laid idle. In 1921 Green & associates relocated as Copper Gem Group.

Equipment: At tunnel #2 is a compressor, gas engine, drill steel and an air hammer. Tools scattered around all cuts.

Geology: Property lies on the granite-limestone contact. Tunnel #2 at elevation 6150' was driven on a quartz "vein" or mass. Some of the quartz has large flakes (not books) of biotite. Limestone exposed at the face, about 25' inside. Quartz is barren of mineralization; tunnel #2 located in SW1/4 of SE1/4 of sec. 6.

Above and to the east, an aplite dike cuts the limestone and a 5' vertical band of solid garnet is developed. The east side of the zone is occupied by a basalt dike.

The garnet zone is reported by Green to continue on up the hill, so on the basis of this report it might be considered continuous (probable development of abrasive?) East of the basalt dike is a limonitic looking rock (test for scheelite). Farther east by N.E. around the hill slope to the limestone-grenodiorite contact, Green's latest working, all caved. Green
reports about 5 tons of high-grade moly. on the dump but little was found. The granodiorite limestone contact is quite complicated, and it may be that a later magma injected along the contact, causing some "secondary" mineralization. The mineralization seen was all in the igneous rock. Epidote and garnets developed on a grand scale. Pyrite, chalcopyrite, and other copper minerals and occasional flakes of molybdenite. The dump material was heavily mineralized and is one of the best showings found.

Above the igneous is some 50 feet of metamorphic, a banded phonolite or hornfels, interbedded with lime, and overlain by ls. Not attempt at dip and strike as it was too variable.

As a suggestion, a later salic intrusion along the previous contact, caused high temp. alteration, and some mineralization.

Old Copper King Tunnel farther up Adams Cr. and to the south. Tunnel is 300 feet. Copper minerals exposed but no moly. Tunnel not worked for many years.

Recommendations: Further prospecting. The farthest N.E. prospect might be re-opened along old line to see if mineralization continues and to what depth.

RAY C. TREASHER.
State of Oregon
Department of Geology & Mineral Industries
Portland, Oregon
Earl K. Nixon, Director

Sec. 6-7 T. 4 S. R. 45 E.
Date 6/26/39
Name of Survey Tom Green Claims
County Wallowa
Quadrangle
Notebook Page No.

Scale: 1000 ft. 1 inch

Diagram showing geological formations and locations.
Green Molybdenite Prospect  Wallowa District  Wallowa County

Owner: Tom Green, Joseph, Oregon

Location: Sections 6 and 7, T 4 S, R 45 E., M. An. 5500 to 6000'.

Area: Several unpatented lode claims, on Adams creek, near the mouth.

Development: One tunnel 135 feet long; several short drifts, north tunnel caved, length not known.

Geology: The prospects lie upon or near the contact of the granite with the argillite and limestone which it intrudes. The ore consists of red garnetiferous tachite with small amounts of chalcopyrite and epidote, or a green epidote tachite with patches and crystals of molybdenite. At one prospect cut (#2) a wide quartz dike is filled with phenocrysts of mica, giving it a cross-hatched appearance.

None of the ore bodies that were visible were large enough to permit large scale operations, and most of the ore was not of high enough grade to permit shipment.

Miscellaneous: The deposit is located about 4 miles by trail from the head of Wallowa Lake and the end of the road. Water is abundant, as is timber. The season is rather short, snowfall deep.

Report by JEA and WDS and RGT (see Wallowa notes) 8/26/39
T 40 E4 W § 26

Describing the location:

0.6 - on line Eagh Lag Pun to North line.
1.0 - east compass in for east.
1.2 - stream cascading in from west, bridge across W. f. So if the same, draw fairly well toward W. f.
1.7 - divide into east of trail, hone a curve R, explain by

A-1: Breen's Prospect

Name: Copper King Group - 9 claims
Owner: H. D. Breen & Associates
Location: On Adams Cty W. f. Wallowa, 5½ sec. 6, T. 45, R. 65 S. E.

Ground: OK

Area: 9 claims

History: Located in 1906 by H. D. Breen; 300 tons taken in quartz along contact; incorporated in 1907 or 1908 as the Copper King Mining Co., wound out, leased and sold. In 1921,elenium, silver, lead, and Coppertown gang.
Equipment at Tunnel *2 is a compressed gas engine, drill, steel, and air hammers. Rocks scattered around hill cut.

Geology. Project lies on the granite-limestone contact.
Tunnel *2 at the 6150' was driven on a quartz vein. Some of the gct has large flakes (not books) of biotite.
Limestone exposed at the face about 25' inside. quartz in barren of mineralization. 

Tunnel *2 located in SW 1/4 sec. 6, T 41 S, R 9 E.

Above and to the east, an outcrop of the lode cuts the limestone and a vertical band of solid garnet is developed. The east side of the zone is occupied by a basalt dike. The garnet zone is repeated by these.

Garnet zone repeated by these. K
continue on up the hill, so on the basis of this report it might be considered continuous. (Perhaps development of abrasion?)

East of the basalt dike is a laminated looking rock, (till formations?)

Further east by NE 1/4 and the hill slope to the limestone-gneiss contact. Gneiss hot working all around. 
Kearn reports about 8 tons of the gneiss only on the downs hill but little was found. The granolithic limestone contact is quite complicated, so it may be that a hot lake magma injected along the contact, coming some secondary mineralization.
The mine evaluation area was all in the serpentine rock. Epidauleite & garnets developed on a grand scale. Pyrite, chalcopyrite, & other copper minerals, and occasional flakes of molybdenite. The dumps material was heavily mineralized & is one of the best showings found.

Above the serpentine in some 50 feet of meta-syenite, a layered phlogopite as hornfels, interbedded with lime, and overlain by 18 feet of clay strata in it was too variable.

As a wild suggestion, a later saline intrusion along the previous contact, caused high temp. alteration & some mineralization.

Old Copper King tunnel further up Adams Cev. to the south. Drilled in 300 feet. Copper mineral, below but not notably. Tunnel not worked for many years.

Recommendation further prospecting. The richest N.E. prospect might be re-opened along old line to see if mineralization continues & to what depth.

Ray C. Sisler