

M E M O R A N D U M

To: Redbed Copper Files
 From: R. E. Harris *Ray*
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In 1973 while conducting a regional correlation study of the Nugget Sandstone and related units for Champlin Petroleum, I observed Copper mineralization at the top of the Jurassic Nugget Sandstone in several localities. Mineralization took the form of malachite and azurite grain coatings in areas of bleached (to yellowish white) Nugget.

The localities of observed mineralization are:

Locality	Location	U.S.G.S. Topographic Quad.
Cabin Creek	43° 14' 45" N/ 110° 47' 30" W	Pine Creek
Mill Creek	43° 18' N, 109° 51' W	Green River Lakes
Squaw Flat	43° 09' N, 110° 55' W	Ferry Peak

In 1973, I had one sample of nugget mineralization run on the University of Wyoming Department of Geology's Atomic Absorption unit. This sample, from Cabin Creek, contained the following:

Pb ppm	56,000
Co ppm	30
Zn ppm	150
Ni ppm	340
Cu ppm	680,000
Ag ppm	0.9