3130 0008

(18)

PROPERTY NAME: Big Pole Creek Prospects

OTHER NAMES:

MINERAL COMMODITY(IES): Fe

TYPE OF DEPOSIT: Vein, replacement, fault

ACCESSIBILITY:

OWNERSHIP:

PRODUCTION:

HISTORY:

County: Eureka Item 8 Creek

Mining District: Modarelli-Frenchie

AMS Sheet: Winnemucca

Quad Sheet: Frenchie Creek 15'

Sec. 34, T 29N, R 50E

Coordinate (UTM):

North 4 4 6 5 7 0 0 m

East 0 5 5 8 2 1 0 m

Zone +11

DEVELOPMENT: The Big Pole prospect consists of several trenches. About 1/4 mile to the east are several shallow prospects developed in Fe-replaced volcanics.

ACTIVITY AT TIME OF EXAMINATION: None.

GEOLOGY: Host rock for this deposit (according to USGS BUll 1179) is Frenchie Creek Rhyolite. However, the altered rock does not appear to have any quartz phenocrysts. THe rock does contain abundant plagioclase phenocrysts which are now replaced by clays & FeOxs. Less altered float in area resembles a dacite in phenocryst mineralogy. (see below)*.

The trenching occurs above & below a resistant black Fe-rich "vein" which strikes N60E. The vein is composed of magnetite & massive to crystalline hematite with some vuggy masses of limonite. Quartz occurs in abundance as gangue, both as irregular pods, lenses (some jaspery quartz noted) & as veinlets.

Less altered float near vein outcrop consists of a greenish, rhyodacitic volcanic which is cut by abundant siliceous stockworking. The quartz veinlets are vitreous grey & may or may not contain Fe impurities.

REMARKS:

*According to USGS Bull. 1179 - Quartz phenocrysts may be absent in the Frenchie Creek Rhyolite, but the chemical composition of the rock is actually rhyolitic. (pg. 34).

SAmple 1544 - Fe ore from vein outcrop

Photo.

REFERENCES:

EXAMINER: Bentz/ Brooks

DATE VISITED: 8/3/82