1080 0007

(165) Item 7

PROPERTY NAME: SOA Lode Claims

OTHER NAMES:

MINERAL COMMODITY(IES): Pb?, Ag?, BA?, Au?, As?

TYPE OF DEPOSIT: Fault (bedding?), replacement, vein

ACCESSIBILITY:

OWNERSHIP:

PRODUCTION:

HISTORY:

County: Lincoln

Mining District: Chief

AMS Sheet: Caliente

Quad Sheet: Chief Mtn. 7½'

Sec. 8, T 3S, R 67E

Coordinate (UTM):

North 4 1 7 5 1 0 0 m

East 0 7 1 9 2 8 0 m

Zone 11

DEVELOPMENT: Main workings consist of two adits; 1 open & 1 caved. Several shallow trenches occur in rubble on ridge above adits.

ACTIVITY AT TIME OF EXAMINATION: Workings are inactive but claims appear current & there are recent (within last 3 Years) signs of geochemical sampling in the area.

GEOLOGY: Adits are driven north into south flank of small east-west ridge. Prospect Mtn. quartzite forms rubble along ridge & small outcrops in the vicinity of the adits. Upslope from the workings, the rubble consists of pinkish-grey quartzite which is fine to medium grained, well sorted, well cemented by silica, laminated & slightly Fe-stained. Some small interbeds of silty limestone occur locally.

The main open adit (sample location 117) has a covered portal. The portal begins in quartzite which is cut by a moderately inclined, Fe-stained & silicified breccia zone. The zone is 10' or more in exposed width & strikes N15W & dips 45° NE. The zone is slightly undulatory as it is probably offset by minor fractures & faults. Boulder size fragments of recrystallized/silicified grey quartzite are caught up in the zone, but for t the most part the rock in the zone is more finely crushed & altered to a mixture of clay, calcite, silica & punky Feoxs (limonite & hematite). Some of the more silicified fragments have unusual green & yellow oxides which may be scorodite (Fe, As, H_2O) or other As minerals. The bedding of the quartzite host rock generally appears to coincide with the northerly striking fault zone. *See below.

Sample 117 from the dump consists of gossany quartz, calcite & Feox-rich vein material with clots partially oxidized pyrite & possibly small crystals of galena. Rock looks like oxidized Ag ore.

* The fault zone is probably a (thrust?) contact between quartzites & limestones since the crushed & altered rock appears to mainly be derived from limestone.

REMARKS:

Tertiary volcanic rocks overlie the sediments to the south.

Sample 117

REFERENCES:

EXAMINER: Bentz/Smith

DATE VISITED: 8/17/83