1750 0004

White Pine Co. General

PROPERTY NAME: U.S. Borax Drill Site(s) & Stockwork

OTHER NAMES: (Porphyry Ridge to SE)

MINERAL COMMODITY(IES): ?

TYPE OF DEPOSIT: Stockwork Porphyry, skarn

ACCESSIBILITY:

OWNERSHIP: U.S. Borax, Tucson

PRODUCTION:

HISTORY:

County: White Pine Hwy 48

Mining District: Ellison

AMS Sheet: Lund

Quad Sheet: Sawmill Canyon 7 1/2'

Sec. 18, T 12N, R 63E

Coordinate (UTM):

North 4308320 m

East 0679680 m

Zone +11.

DEVELOPMENT: U.S. Borax had just moved in a diamond drill rig on site marked on map. Cheryl Butler, the geologist in charge, was hired temporarily for the summer & was not too familiar with the area.

ACTIVITY AT TIME OF EXAMINATION: Drill pad preparation, recent staking, moving truck on site to begin drilling.

GEOLOGY: Since Cheryl Butler did not know much about the area we made a short traverse up the drainagejust south of the drill site. Quartz Monzonite-granite porphyry with stockwork veining was found in the drainage. On a short traverse up the ridge to the E of the drainage we passed thru a skarn zone with rocks of typical skarn mineralogy including diopside & epidote with small amount of sulfides & quartz stockwork veining.

The porphyry outcrops on the ridgecrest to the SE of drill site. Several different compositional & textural varieties of porphyry were noted in outcrop indicating different magma pulses & a changing chemistry. The most common set in an alkalai and sodic plag matrix which is cut by numerous sugary quartz veinlets in a stockwork pattern. The veinlets carry specularite. In most instances the NA plag is quite altered while the quartz & alkalai feldspar is fairly fresh. In some instances the veinlets cross-cut and or offset older veinlets.

Since the porphyry outcrop is especially resistant it controls the ridge topography. Many slicks were noted in the outcrop which seem to parallel the shear direction noted in the hydrothermal brecciation across canyon. The geometry of the ridgecrest porphyry may be c a clue to a feeder dike origin for this body.

No mineralization was noted in porphyry. However the stockwork veined wallrock downslope from porphyry showed minor Cu & sulfide mineralization.

South of this ridge in the vicinity of SawMill Peak, the Paleozoic section dips to the SW presumably because of the doming effect from the intrusion of the underlying igneous body.

REMARKS: Sample 837 - Altered stockwork veined granitic (?) porphyry with Fe-silic veining & possible quartzite fragments.

838 - wallrock breccia with quartz veining & possible ferrimolybdate stains (bright yellow) taken from small dog-hole prospect below porphyry outcrop.

REFERENCES:

EXAMINER: Bentz/Bonham/Smith

DATE VISITED: 6/25/81