1370 0010

(167)

PROPERTY NAME: Sample location 1741

OTHER NAMES:

MINERAL COMMODITY(IES): Cu, Pb?, Ag?, Au?

TYPE OF DEPOSIT: Shear, (replacement, vein)

ACCESSIBILITY:

OWNERSHIP:

PRODUCTION:

HISTORY:

County: Lincoln Item 11

Mining District: Delamar

AMS Sheet: Caliente

Quad Sheet: Pahroc Springs SE 7 1/2'

Sec. 14, T 5S, R 64E

Coordinate (UTM):

North 4154340 m

East 0695170 m

Zone +11

DEVELOPMENT: Inclined shaft with headframe & stope along shear (fracture) zone.

ACTIVITY AT TIME OF EXAMINATION: None, but some fairly recent surface exploration (assessment?) on slope NW of shaft near prospects.

GEOLOGY: Thick bedded (3-4'), pinkish, Fe-stained, medium-grained quartzites of the Cambrian Prospect Mtn. Fm. are host rocks for deposit. The quartzites are laminated & have pebbly horizons or lenses. Just east of shaft the bedding of the quartzite strikes N55W, 25NE. Bedding & fracture surfaces are coated by Fe & Mnoxs & quartz crystlas. Fractures generally occur at a high-angle to bedding. Some bedding surfaces show slickensides. Micaceous brown shales, mapped as the Cambrian Chisholm Shale, outcrop to the south across drainage near cabin.

The workings explore a N20W, 65SW, mineralized shear zone cutting the Prospect Mtn. quartzite. The stope follows shear for about 50', while the shaft is inlcined to SW along this fault at its SW end. The mined portion of the zone is 3-5' in width. The shear surface is well defined & coated by abundant Fe & Mnoxs. The wallrocks are bleached to a pure white color at minesite. Fracture sets are aligned parallel to main shear in the wallrocks. Although shear is at a high-angle to the bedding, it is more or less parallel to a well developed joint set in the host indicating that fracturing probably provided premineral zone of weakness.

Dump rock consists of altered & mineralized quartzite & less abundant massive to crystalline, white quartz vein material with large vugs filled with prismatic quartz. Clots & irregular lenses of pyrite, chalcopyrite, covellite & possibly galena & tetrahedrite occur in the quartzite which also shows boxworks & Fe Mn stains. The sulfides are fresh internally, but oxidized near the weathered surface of the rocks. Malachite & chrysocolla are abundant on some samples. Yellow & green oxides coat rocks also.

REMARKS: Sample 1741.

REFERENCES: Tschanz & Pampeyan, 1970, NBMG Bull. 73.

EXAMINER: Bentz/Smith

DATE VISITED: 9/22/83