5040 0003

Item 5 (177)

PROPERTY NAME:

OTHER NAMES:

MINERAL COMMODITY(IES): Au? Barite?

TYPE OF DEPOSIT: Hydrothermal breccia

ACCESSIBILITY: See map, access road fair but slick in wet weather, jeep trail through low growing cactus, recommend walking down.

OWNERSHIP: None

PRODUCTION: None

HISTORY: None

County: Lincoln

Mining District: Vicinity of Vigo

AMS Sheet: Caliente

Quad Sheet: Dodge Spring 7½'

Sec. 12?, T 7S, R 71E

Coordinate (UTM):

North 4138180 m

East 0760390 m

Zone +11

DEVELOPMENT: Single shaft, shallow, caved, most of dump washed away down drainage, condition of access road probably maintained for hunters.

ACTIVITY AT TIME OF EXAMINATION: None

GEOLOGY: Working explores hydrothermal breccia zone in mafic-rich, highly altered intrusive probably granodiorite. Exposed in wall of shaft is a N65E, vertical, approximately 12 foot wide fault zone. The fault zone is filled and cemented with massive, sugary quartz and crystalline calcite veins which are in turn iron stained and coated with minor psilomelane. The intrusive on either side of the fault is intensely brecciated and cemented with cockscomb hydrothermal quartz which has abundant open spaces. The quartz crystals are very fine grained to ½ inch and radiate from central nucleation points and extend from the breccia fragments. The quartz is heavily iron and manganese stained and from the weight of the rocks, suggests that barite might be intergrown. Platy, crystalline calcite fill fractures and is also coated with iron and manganese stains. The intrusive is grey-green (propylitic alteration?), equigranular and is heavily weathered, showing argillic alteration. Sericite occurs locally. Breccia fragments exhibit milling. Intersecting the main fault zone are sets of N20E, vertical shears, A very minor amount of oxidized pyrite and lone grain of galena in the quartz cement.

Area mapped as altered intermediate lavas and tuffs of Miocene and Oligocene age. Faulting appears to relatively parallel the southeastern edge of the proposed Caliente Caldron Complex.

REMARKS: Sample site 788

REFERENCES: USGS MI Map I-1041

EXAMINER: Smith

DATE VISITED: August 21, 1983