1370 0017

(167) Item 20

PROPERTY NAME: Delamar Zinc?

OTHER NAMES: North Star claims

MINERAL COMMODITY(IES): Zn?, Pb?

TYPE OF DEPOSIT: Replacement veins in limestone along bedding, or fault?

ACCESSIBILITY:

OWNERSHIP: North Star claims located June 22, 1974, by 2 persons from Caliente, names no longer readable.

PRODUCTION: Reportedly none.

HISTORY:

County: Lincoln

Mining District: Delamar

AMS Sheet: Caliente

Quad Sheet: Delamar 7 1/2'

Sec. 23, T 5S, R 64E

Coordinate (UTM):

North 4152280 m

East 0695800 m

Zone +11

DEVELOPMENT: 3 shafts as shown on map. Main shaft is fairly deep & may be inclined at depth. Some drilling was done on other side of ridge south of workings, but is probably several years old.

ACTIVITY AT TIME OF EXAMINATION: None.

GEOLOGY: Host rock for the deposit is medium grey, silty limestones of the Cambrian Highland Peak Fm. At minesite, limestone is thick-bedded to massive. (Refer to diagram & text below for description of individual shafts.)

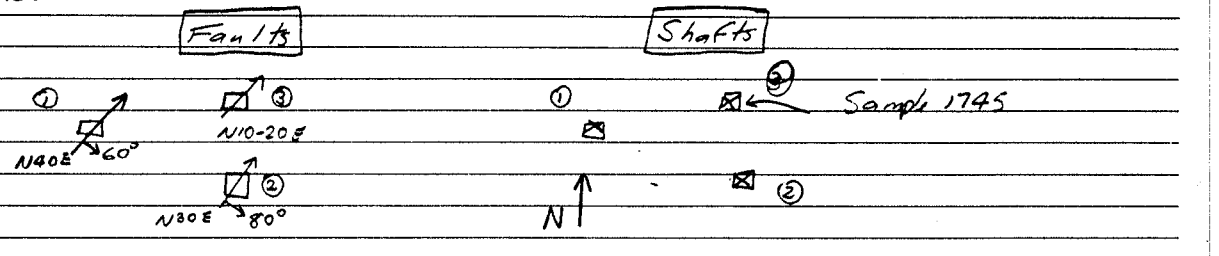
Shaft #1 Exposed within collar of shaft is a two foot wide replacement vein which parallels the bedding of the host limestone. The vein strikes N40E, dips 60SE. Vein has sharp contact with enclosing host rock which appears little altered. Vein is completely oxidized & consists of limonitic & Mn-rich gossan with some calcite & silica veining & vug fillings. Calcite (possibly some smithsonite) also cements gossan breccia found on the dump. The gossan is quite dense & may contain Pb or Zn minerals, but no unoxidized minerals were observed.

Shaft #2 Upper shaft explores similar replacement vein which is 5-6' wide & strikes N30E, 80SE. The vein possibly parallels the bedding or cross-cuts the bedding at a low-angle. The gossan "vein" is not as pure or high-grade as that observed in #1. Instead it is spotty, pinches out & contains limestone lenses along fractures parallel to bedding.

Shaft #3 Lowermost shaft is inclined along strike of N10-20E? (exposure not good) gossan replacement vein which is probably a continuation of vein observed in #2. Adit? (or incline) located below & intersecting shaft is caved. Dump consists of limestone wasterock & limonitic, Mn-gossan which in general is lightweight, punky & in part siliceous. Sample 1745 taken from this shaft.

According to UN Bull. cited below, shafts are sunk on a NE-striking fault within Chisholm shale & on a NW-striking fault between the Highland Peak limestone & Chisholm shale. Presence of gossan breccias supports a fault-related replacement origin.

REMARKS: Sample 1745.



REFERENCES: Callaghan, 1937, Univ. of NV Bull., v. 31, n.5.

EXAMINER: Bentz/Smith

DATE VISITED: 9/22/83