

4840 0057

PROPERTY NAME: Three Hills PropertyOTHER NAMES: ABA claims?MINERAL COMMODITY(IES): AuTYPE OF DEPOSIT: disseminated Au

ACCESSIBILITY: _____

OWNERSHIP: Cordex ExplorationPRODUCTION: NoneHISTORY: Discovered in late 1970'sCounty: Esmeralda Item 59Mining District: TonopahAMS Sheet: TonopahQuad Sheet: Lone Mtn. 15'

NE14NE14

Sec. 4, T 2N, R 42E

Coordinate (UTM):

North 4 2 1 2 5 0 0 mEast 0 4 7 8 1 8 0 mZone +11DEVELOPMENT: Bulldozer roads, rotary drill holesACTIVITY AT TIME OF EXAMINATION: None

GEOLOGY: Very fine-grained, disseminated (free) gold is present in silicified, light grey to white, tuffaceous sandstones of the Tertiary Siebert Fm. The rocks are locally strongly brecciated and silica cemented. Iron-staining coats the fractures and weathered surfaces, and occurs as banding around rock fragments in the breccias. Some breccias contain fragments of bedded sandstone and tuff from 1 cm to 30 cm in diameter. Some breccias are only slightly cemented (with much open spaces) by white, iron-stained, drusy to sugary quartz. Other breccias are completely cemented by light to dark, porcellaneous, chalcedonic silica. The sedimentary rocks are well laminated; a sedimentary conglomerate? may also be present.

There is some evidence of penecontemporaneous brecciation. The breccias are most likely due to Oddre Rhyolite magmatism. An area of argillic alteration may surround the silicification. Pyrite is probably present at depth, although none was observed at the surfaces.

For more information, see Bonham and Garside (1979, p.115; 1982, p. 13).

A hot-spring sinter deposit is present within the Siebert Fm about 10m below an overlying, unmineralized Brougner Rhyolite flow which caps the eastern one of the 3 hills. This sinter is 1-2m thick, laminated in part, light grey, and appears to lie within the Siebert. This gives further support to the penecontemporaneous nature of hydrothermal brecciation, and suggests the property is very similar to the Tonopah Hashbrouck Mine in the west part of the Divide Mining District.

REMARKS: Sample 440 is strongly silicified Siebert Fm. hydrothermal breccia with prominent Leissgange banding. Compare with sample of Bonham and Garside (1982)
Photo A5-"8B" Three Hills Property, looking south.

REFERENCES: _____

EXAMINER: L.J. GarsideDATE VISITED: 8 Jul 82