

PRODUCT SILVER  
PRODUIT

PROVINCE OR PROVINCE OU  
TERRITORY TERRITOIRE

British Columbia

N.T.S. AREA 92 H/6  
RÉGION DU S.N.R.C.

REF. AG 8  
RÉF.

NAME OF PROPERTY  
NOM DE LA PROPRIÉTÉ

MORNING STAR

OBJECT LOCATED - Morning Star claim (Lot 131).  
OBJET LOCALISÉ

UNCERTAINTY 300 m  
FACTEUR D'INCERTITUDE

Lat. 49°25'55"

Long. 121°04'30"

Mining Division Similkameen  
Division minière

District  
District

Yale

County  
Comté

Township or Parish  
Canton ou paroisse

Lot  
Lot

Concession or Range  
Concession ou rang

Sec  
Sect.

Tp.  
Ct.

R.  
R.

OWNER OR OPERATOR/PROPRIÉTAIRE OU EXPLOITANT

DESCRIPTION OF DEPOSIT/DESCRIPTION DU GISEMENT

The claim is underlain by Upper Jurassic andesite and tuffaceous members of the Dewdney Creek formation. The No. 1 vein, where exposed in outcrop for 15', varies from a few inches to about 18" in width, strikes N75°E (mag), and dips 45°SE. A sample from the outcrop assayed: Au 0.03 oz/t; Ag 55 ozs/t; Pb 24.2%; Zn 13%. The vein is a fracture zone with most of the narrow crevices filled with calcite, while the wider ones carry galena, sphalerite, calcite, and pyrite in a quartz gangue. Where exposed in the drift the fissure is very narrow and carries no mineral, except in a 10-foot section where the fissure is 2 feet wide. A crosscut to the northwest cut a well-defined fissure zone about 25' wide, made up of 3 mineralized fissures, each about 2' wide, separated by bands of altered andesite. The vein farthest from the drift contained the most mineral, mainly sphalerite, with some galena, pyrite, tetrahedrite, and chalcopyrite in a gangue of brecciated andesite. A sample from this vein, taken across 2 feet at the bottom of the winze assayed: Au, trace; Ag, 8 ozs/t; Cu, 2%; Zn, 20.2%. The mineralization appears to occur in lenses of limited extent.

Associated minerals or products - Lead, zinc, gold, copper.  
Minéraux ou produits associés

HISTORY OF EXPLORATION AND DEVELOPMENT  
HISTORIQUE DE L'EXPLORATION ET DE LA MISE EN VALEUR

The showings are located at about 5,000 feet elevation at the head of the middle fork of Sutter Creek, about 1 mile east of Mount Sutter and some 16 miles east-northeast of Hope.

The Morning Star claim (Lot 131) was owned by Dan Ross, apparently from about 1900. Exploration work was done in open cuts. Andy Jensen, of Tulameen, optioned the claim from the Ross estate and during 1914-15 drove two crosscut adits. A crosscut was driven 45 feet to No. 1 vein and continued for 30 feet beyond. The vein was drifted on westerly for 108 feet and from the face a crosscut to the northwest entered a fissure zone at about 13 feet and continued through this for 25 feet farther. From this crosscut a winze was sunk on the fissure zone to a depth of 10 feet. The No. 2 vein was crosscut by a short adit but no drifting was done.

In the mid 1920's the claim was owned by Hugh Hunter, of Princeton, and under option to Alex Robinson, of Tulameen. Open cutting was reported in 1925 and 1927.

Reports of Minister of Mines, British Columbia:  
1915, p. 250<sup>†</sup>; 1925, p. 211; 1927, p. 255;  
1928, p. 266.

<sup>††</sup>Cairnes, C.E.; Geological Exploration in Yale and  
Similkameen Mining Divisions; Summary Report 1922,  
Pt. A., p. 104, Geol. Surv. of Canada.

## MAP REFERENCES/RÉFÉRENCES CARTOGRAPHIQUES

Map 12-1969, Hope (West Half), (Geol.), Sc. 1:250,000 -  
accomp. Paper 69-47, Geol. Surv. of Canada.

Map 8534 G, Hope, (Aeromag.), Sc. 1":1 mile.

#Map 92 H/6, Hope, (Topo.), Sc. 1:50,000.

## REMARKS/REMARQUES

Comp./Rev. By Comp./rév. par	DMacR						
Date Date	5-80						