

PRODUCT  
PRODUIT

SILVER

PROVINCE OR  
TERRITORYPROVINCE OU  
TERRITOIRE

British Columbia

N.T.S. AREA  
RÉGION DU S.N.R.C.103 I/9  
REF. AG 3  
RÉF.NAME OF PROPERTY  
NOM DE LA PROPRIÉTÉ

HELEN

OBJECT LOCATED - showing - from descriptive data.  
OBJET LOCALISÉUNCERTAINTY 800 m  
FACTEUR D'INCERTITUDELat. 54°44'20"  
Lat.Long. 128°23'  
Long.Mining Division Omineca  
Division minièreDistrict  
District

Range 5 Coast

County  
ComtéTownship or Parish  
Canton ou paroisseLot  
LotConcession or Range  
Concession ou rangSec  
Sect.Tp.  
Ct.R.  
R.

## OWNER OR OPERATOR/PROPRIÉTAIRE OU EXPLOITANT

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

The showings are located at about 2,500' elevation on a north branch of Sand Creek, some 18 miles northeast of Terrace.

The mineralization was discovered in 1931 by G. Alger and associates, who staked the Helen group. Work in 1931-32 was limited to test pits and trenches.

## DESCRIPTION OF DEPOSIT/DESCRIPTION DU GISEMENT

A shear zone, followed by a 2-foot dyke of quartz diorite, strikes northerly and dips 35° west in basalt (Jurassic Hazelton Group ?). A large mass of porphyritic quartz diorite outcrops near the upper end of the shear zone. On the footwall side of the dyke the basalt is sheared and altered over a width of 4 feet, and is traversed by a network of quartz stringers carrying small amounts of pyrite, chalcopyrite, and sphalerite. There is a similar alteration and mineralization of the basalt along the upper side of the dyke over a width of 2 feet. Three channel samples taken across the sheared zone by Kindle (1937) showed very low assays for copper, silver, and zinc, and no gold. A sample across a width of 3 feet in 1932 reportedly assayed: Gold, trace; silver, 10.5 oz/t; copper, 3.5%; zinc, 4%.

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Associated minerals or products  
Minéraux ou produits associés - Copper, zinc.© Mineral Policy Sector, Department of Energy, Mines and Resources, Ottawa  
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## HISTORY OF PRODUCTION/HISTORIQUE DE LA PRODUCTION

## REFERENCES/BIBLIOGRAPHIE

Reports of Minister of Mines, British Columbia: 1931,  
p. 71; 1932, p. 84.

+Kindle, E.D.; Mineral Resources, Usk to Cedarvale,  
Terrace Area, British Columbia: Memoir 212, p. 40,  
Geol. Surv. of Canada, 1937.

## MAP REFERENCES/RÉFÉRENCES CARTOGRAPHIQUES

Map 1136 A, Terrace, (Geol.), Sc. 1":4 miles - accomp.  
Memoir 329, Geol. Surv. of Canada, 1964.

Map 103 I/9, Usk, (Topo.), Sc. 1:50,000.

## REMARKS/REMARQUES

Comp./Rev. By <i>Comp./rév. par</i>	DMacR						
Date <i>Date</i>	09-84						