

### Location/Identification

<b>MINFILE Number:</b>	082ESW150		
<b>Name(s):</b>	<b>SILVER STAR</b>		
	SHIPPER, THREE SISTERS, LEAMINGTON (L. 558S)		
<b>Status:</b>	Past Producer	<b>Mining Division:</b>	Osoyoos
<b>Mining Method</b>	Underground	<b>Electoral District:</b>	Boundary-Similkameen
<b>Regions:</b>	British Columbia	<b>Resource District:</b>	Okanagan Shuswap Natural Resource Distr
<b>BCGS Map:</b>	082E002		
<b>NTS Map:</b>	082E04E	<b>UTM Zone:</b>	11 (NAD 83)
<b>Latitude:</b>	49 04 21 N	<b>Northing:</b>	5439126
<b>Longitude:</b>	119 44 16 W	<b>Easting:</b>	300054
<b>Elevation:</b>	700 metres		
<b>Location Accuracy:</b>	Within 500M		
<b>Comments:</b>	See location map in Property File - unknown [1984-07-30]: Notes and Maps - Golden Valley Prospect and Silver Star Mine.		

### Mineral Occurrence

**Commodities:** Silver, Copper, Lead, Zinc, Molybdenum, Gold, Antimony

**Minerals**

<b>Significant:</b>	Galena, Chalcopyrite, Sphalerite, Molybdenite, Tetrahedrite
<b>Associated:</b>	Quartz
<b>Alteration:</b>	Hematite, Malachite
<b>Alteration Type:</b>	Oxidation
<b>Mineralization Age:</b>	Unknown

**Deposit**

<b>Character:</b>	Vein, Shear
<b>Classification:</b>	Hydrothermal, Epigenetic
<b>Type:</b>	I05: Polymetallic veins Ag-Pb-Zn+/-Au

### Host Rock

**Dominant Host Rock:** Plutonic

Stratigraphic Age	Group	Formation	Igneous/Metamorphic/Other
Upper Paleozoic	Kobau	Undefined Formation	-----
Paleozoic-Mesozoic	Undefined Group	Old Tom	-----
Middle Jurassic	-----	-----	Similkameen Intrusions

Isotopic Age	Dating Method	Material Dated
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**Lithology:** Granodiorite, Greenstone, Quartzite, Syenite

**Comments:** The Kobau Group is of Carboniferous to Permian age. The Old Tom Formation is of Carboniferous to Triassic age.

### Geological Setting

<b>Tectonic Belt:</b>	Intermontane	<b>Physiographic Area:</b>	Okanagan Highland
<b>Terrane:</b>	Okanagan, Plutonic Rocks		
<b>Metamorphic Type:</b>	Regional	<b>Relationship:</b>	Pre-mineralization
<b>Grade:</b>	Greenschist		

## Inventory

**Ore Zone:** DUMP  
**Category:** Assay/analysis

**Year:** 1984  
**Report On:** N  
**NI 43-101:** N

**Sample Type:** Grab

Commodity	Grade
Silver	1404 grams per tonne
Gold	0.7 grams per tonne
Copper	0.900 per cent
Lead	0.145 per cent
Antimony	0.1 per cent
Zinc	0.200 per cent

**Comments:**

**Reference:** Property File - unknown [1984-07-30]: Notes and Maps - Golden Valley Prospect and Silver Star Mine

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**Ore Zone:** UPPER  
**Category:** Assay/analysis

**Year:** 1984  
**Report On:** N  
**NI 43-101:** N

**Sample Type:** Chip

Commodity	Grade
Silver	19.2 grams per tonne

**Comments:**

Sample 84014

**Reference:** Property File - unknown [1984-07-30]: Notes and Maps - Golden Valley Prospect and Silver Star Mine

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## Summary Production

	Metric	Imperial
<b>Mined:</b>	12 tonnes	13 tons
<b>Milled:</b>	0 tonnes	0 tons
<b>Recovery</b>		
Silver	11,539 grams	371 ounces

## Capsule Geology

The Silver Star occurrence is located at approximately 700 metres elevation on the west side of the Similkameen River, approximately 2 kilometres north of Shoudy Creek.

Regionally, the area lies west of the contact between greenstone and quartzite of the Carboniferous to Permian Kobau Group and granodiorite of the Middle Jurassic Similkameen Batholith. To the north, the Similkameen Batholith has intruded andesitic greenstone of the Carboniferous to Triassic Old Tom Formation.

Locally, a shear-hosted quartz vein in granodiorite and/or syenite hosts galena, chalcopyrite, sphalerite, molybdenite and tetrahedrite mineralization. Malachite staining is also reported.

In 1984, a 0.6-metre chip sample (84014) from a bull quartz vein exposed in the upper adit assayed 19.2 grams per tonne silver, while a select grab sample from a former sorting pile yielded 0.7 gram per tonne gold, 1404 grams per tonne silver, 0.900 per cent copper, 0.145 per cent lead, 0.200 per cent zinc and greater than 0.1 per cent antimony (Property File - unknown [1984-07-30]: Notes and Maps - Golden Valley Prospect and Silver Star Mine).

A total of 12 tonnes were mined during 1923 (11 tonnes) and 1926 (1 tonne), from which 11,539 grams of silver were recovered. The operator was F. Bowden for Cawston and Shipper Mining Company. Historical workings include several pits or trenches and at least one adit, located on the Leamington (L. 558S) Crown-granted claim, that extend approximately 2 kilometres in a north-south direction.

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## *Bibliography*

EMPR AR 1923-383; 1926-443

EMPR INDEX \*3-213

EMPR BC METAL \*MM00373

EMPR OF 1989-2; 1989-5

EMPR PF (unknown [unknown]: Claims Map - Three Sisters and Leamington; \*unknown [1984-07-30]: Notes and Maps - Golden Valley Prospect and Silver Star Mine)

GSC MAP 538A; \*539A; 37-21; 15-1961; 1736A

GSC MEM 79; 179, pp. 20-26

GSC OF 481; 637; 1505A; 1565; 1969

GSC P 37-21

EMPR PFD 824974, 21819

**Date Coded:** 1985/07/24

**Coded By:** BC Geological Survey (BCGS)

**Field Check:** N

**Date Revised:** 2018/12/07

**Revised By:** Karl A. Flower (KAF)

**Field Check:** N