

82F/6W
82F/5W-176

003248

January 11th, 1965.

R E P O R T

on

THE SILVER KING GROUP

NELSON, B. C.

This report is based on information submitted by Mr. Leo Telfer, and on a study of all available maps and reports on the property.

SUMMARY AND CONCLUSION

The Silver King group, located on Toad Mountain nine miles southwest of Nelson, is a consolidation of five properties which include the Cominco owned Silver King Mine. This mine, mostly from 1896 to 1907, produced 243,200 tons of ore having a recoverable grade of 19.6 oz. silver and 3.2% copper. At present metal prices this production would have a realized value of \$9,600,000 or \$40 per ton of ore mined.

Although the Silver King vein is continuous for over 3,000 feet in length, and has been explored to a depth of 1,000 feet, most of the past production was mined from a length of 600 feet, a depth of up to 300 feet and an average width of 27 feet. This very profitable ore zone occurred where the Silver King vein penetrates feldspar augite porphyry.

Mr. Leo Telfer, who has an intimate knowledge of the Silver King geology, believes the favorable augite porphyry intrusive dips to the south. Thus possibilities exist for finding commercial ore bodies at depth on the parallel Iroquois and Kohinoor veins where they penetrate the favorable augite porphyry.

Summary and Conclusion (Continued)

A surface diamond drilling program is hereby recommended to explore the Iroquois and Kohinoor veins at depth and also to explore the eastern extension of the Bonanza vein. Due to the favorable location of the property, and to the size and grade of anticipated new silver-copper ore bodies, the reward, if exploration is successful, would be substantial.

LOCATION

The Silver King Group is located on Toad Mountain at an elevation of 6,400 feet, nine miles by road southwest of Nelson, B. C., as shown on the map accompanying this report.

CLAIMS

New Cronin Babine has an arrangement to option the following five groups of mineral claims totalling 20 mineral claims, as shown on the map accompanying this report.

1) Silver King Mine - 18 mineral claims

An agreement has been reached in principal to option a 75% interest from Cominco, owners of the property.

2) Union Jack - 1 mineral claim

An option agreement has been executed with Messrs. Major and Williams of Spokane on the Union Jack Mineral Claim. This claim is strategically located as it covers the eastern extension of the Iroquois vein in the target area.

3) Palmer Option - 3 mineral claims

An option on this group is held by Mr. Leo Telfer.

4) Marquis Option - 5 mineral claims

An option on this group is also held by Mr. Telfer.

5) Ivanhoe - 1 mineral claim

This claim is owned by Mr. Telfer who has agreed to option all his holdings in the Silver King area to New Cronin Babine Mines.

GEOLOGY

The Silver King Group of mineral claims is underlain by Nelson intrusives, mostly monzonite stock and dykes, on the eastern section of the property and Beaver Mountain andesite and schists on the center and northern sections. A coarse felspar augite porphyry intrusive, 1400 feet by 200 feet wide, striking northwest, lies just to the north of the main Silver King ore body. This augite porphyry appears to dip to the south and the narrow Silver King vein and associated fractures produced an ore body up to 50 feet wide where it transgressed the porphyry.

The Silver King, Kohlnoor and Iroquois veins, which are long mineralized shears, trend N 60° W and dip 70° to the south parallel to the schistosity of a series of andesites and schists.

PAST PRODUCTION

The Silver King mine had a production of 243,000 tons with a recoverable grade of 19.6 oz. silver, 3.2% copper and produced 4,590,000 oz. silver and 15,350,000 lbs. copper for a realized value of about \$9,600,000 at the present metal prices.

ORE RESERVES

To the west of the augite porphyry the Silver King vein is narrow and, as opened up by the Dandy tunnel, shows widths of three feet of which 1,450 feet is mineralized and averages 4.3 oz. silver, 1.0% copper. This is about 400 tons per vertical foot, and other workings and drill holes indicate a vertical range of approximately 400 feet, so there is a possible 150,000 tons in this area with a recoverable value of \$10.00 per ton. This is marginal ore but might provide mill feed if a mill was installed on the property.

EXPLORATION TARGETS

1) The Kohlnoor and Iroquois veins where they transgress the augite porphyry down its southeasterly plunge. Both these veins, exposed by surface trenching, to the west are similar to the narrow section of the Silver King vein. Thus there is the possibility that wide ore will develop where the veins penetrate the augite porphyry.

Exploration Targets (Continued)

2) The Bonanza vein along its possible plunge southeasterly parallel to the plunge of the augite porphyry. The Bonanza cross vein, which lies to the east of the augite porphyry, is explored by shallow workings showing widths up to 26 feet, and has a possible 380 tons per vertical foot grading 5.3 oz. silver and 1.9% copper. Ore of this grade has a realized value of \$16.10 per ton. Underground work at depth, vertically below the widest section, showed no ore. However, there is a good possibility that the Bonanza vein plunges to the southeast similar to the Silver King ore body.

RECOMMENDATIONS

It is recommended -

THAT approximately 4,000 feet of surface diamond drilling be undertaken at a cost of \$30,000 to preliminarily test the target areas to determine if these veins also produce substantial ore shoots where they intersect the augite porphyry.




H. L. HILL & ASSOCIATES LTD.

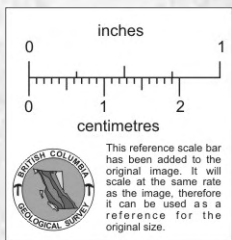
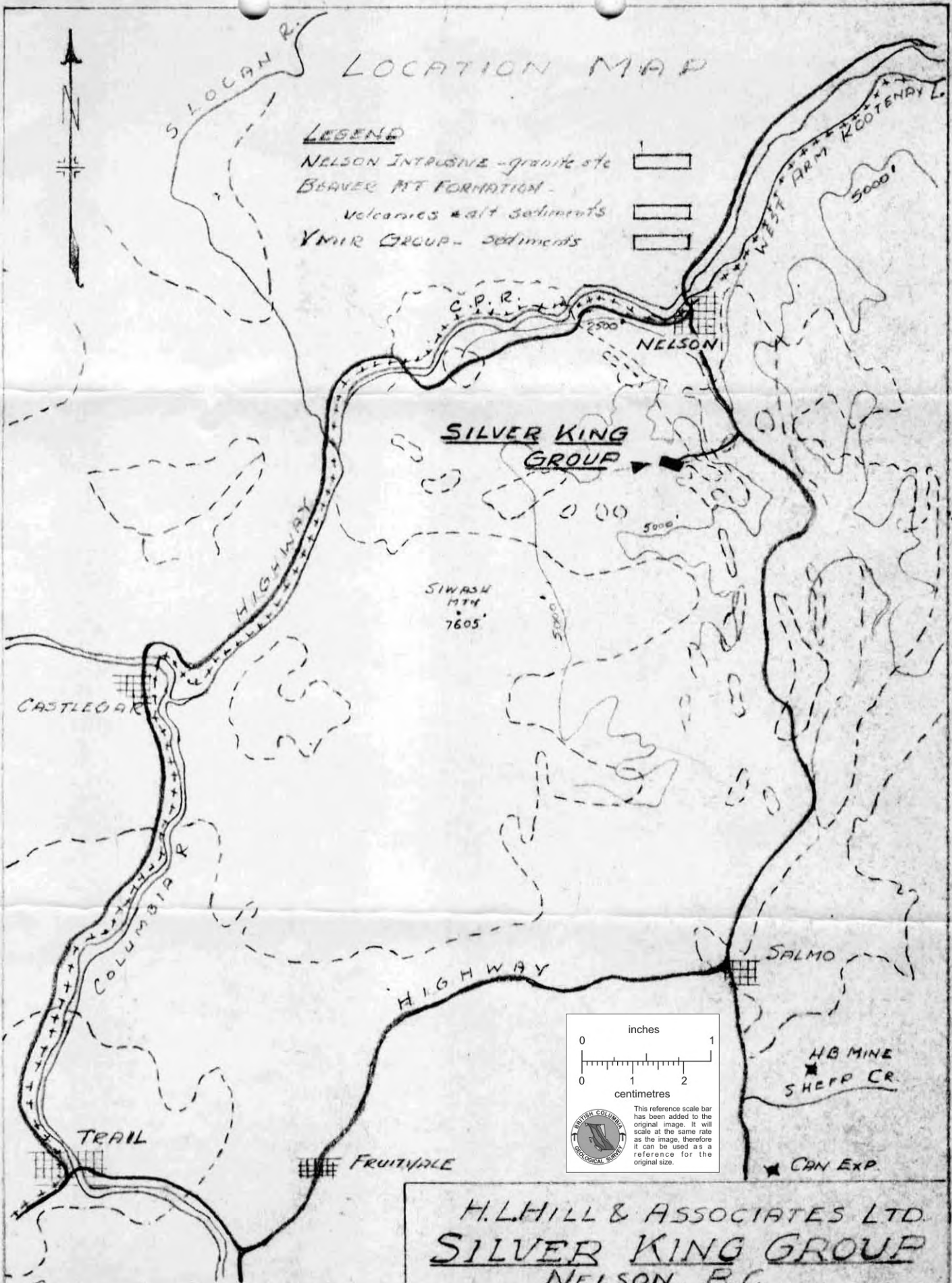
Henry L. Hill

HLH/mjr

LOCATION MAP

LEGEND

- NELSON INTRUSIVE - granite etc 
- BEAVER MT FORMATION -
Volcanics & alt sediments 
- YMAR GROUP - sediments 

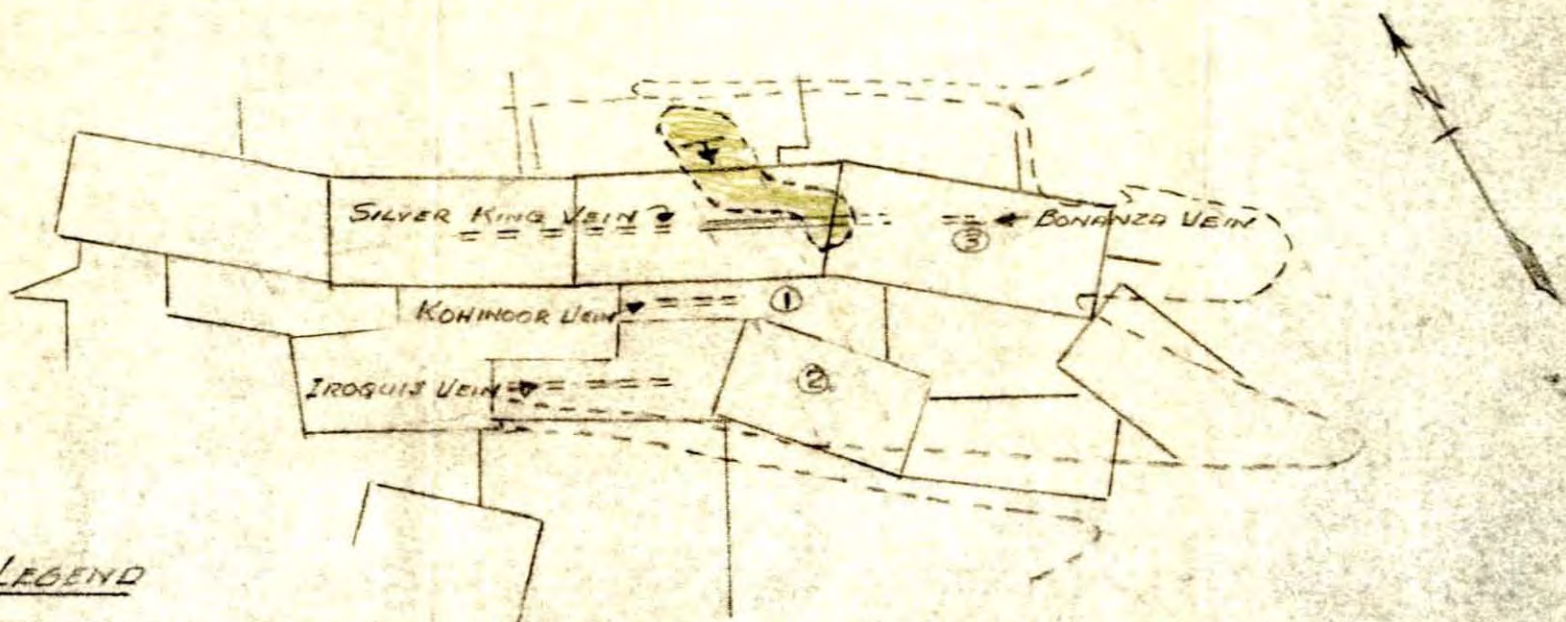


H. L. HILL & ASSOCIATES LTD.
SILVER KING GROUP
 NELSON, B.C.




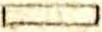


Geology by Geological Survey
 of Canada & B.C. Dept. of Mines

Scale 1" = 4 mi

Jan. 1965
 H.L.H.




LEGEND

-  NELSON INTRUSIVES - MONZONITE
-  " " " " FELSPAR AUGITE PORPHYRY
-  BEAVER MT. FORMATION - ANDESITE - SCHISTS
-  " " " " AGGLOMERATE
-  VEINS
-  PAST GROSS PRODUCTION MINED FROM THIS SECTION AT PRESENT METAL PRICES *2,500,000
- ①②③ AREA FOR FUTURE EXPLORATION

inches
0 1

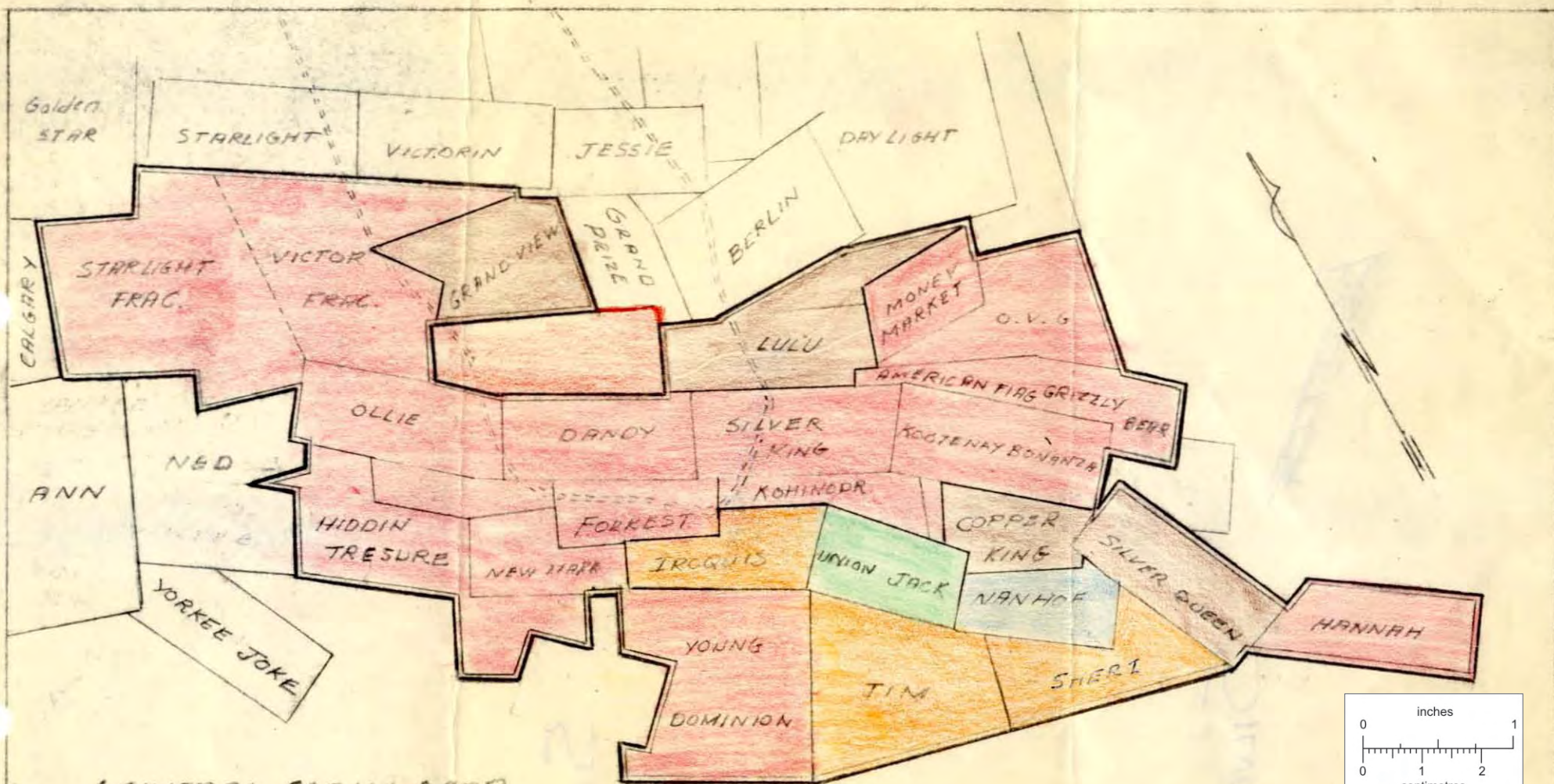
centimetres
0 1 2

 This reference scale bar has been added to the original image. It will scale at the same rate as the image, therefore it can be used as a reference for the original size.

H. L. HILL & ASSOCIATES LTD
SILVER KING GROUP
 NELSON B.C.






Scale 1" = 1000'

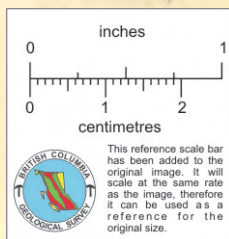
JAN. 1965
 HLH



MINERAL CLAIM MAP
(TOAD M'T'N)

LEGEND

PALMER OPTION	
MAJER	
TELFER	
MARQUIS	
COMMICO	



H.L.HILL & ASSOCIATES LTD
SILVER KING GROUP
NELSON, B.C.

Scale 1" = 4mi

Jan 1965
L.M.H

SILVER KING

~~ESTELLA~~

SILVER KING

~~ESTELLA~~