1989 "SNAPSHOT" REVIEW FORM

88757A

PROPERTY/PROJECT

AUTHORS

Name

Claims

: Silver Queen : 54° N 126° 45'W W. W. Cummings, P. Eng.

NTS

: 50

A. A. Petancic

Acreage

: APP 3200 acres Commodities : Au-Ag-Cu-Pb-Zn

AGREEMENTS

Joint Venture Agreement between New Nadina (40%) and Houston Metals (60%) dated January 12, 1987; Houston Metals is entitled to recover 250% of exploration cost from 80% of production before New Nadina participates to its full 40%.

HISTORY

Past Exploration Techniques	By <u>Whom</u>	Amount	Type	Cost
I.P. Magnetometer D.D.	New Nadina New Nadina New Nadina			
Past Development (if any)	By <u>Whom</u>	Amount	Type	Cost
Nadina Exploration Bradina Joint Venture	placed mine in production 1972 at 500 tpd			
Past Production (if any)	By <u>Whom</u>	Tonnage(s)	Method	Grade
	Bradina J.V.	200,000	U.G. Mine	*

*The Silver Queen Mine produced in 1978/73: 3,257 oz gold, 438,797 oz silver, 11,132,704 lbs zinc, 1,547,181 lbs lead, 892,898 lbs copper, and 34,769 lbs cadmium from about 208,000 tons of ore and development muck.

Reasons for shut-down

Mine and metallurgical problems

GEOLOGY

Regional

Property underlain by late Mesozoic to early Tertiary volcanic flows pyroclastics, near SW. rim of a caldera formed by the Francois Lake group (upper Cretaceous)

Local

Dacita flows and Tuffs, cut by a microdiorite sill or dyke, form the top of Mine Dykes are pulaskite, a syenite porphyry which are post-ore, and andesite. Rhyolite underlies the dacite.

Alteration/Ore Forming Minerals

Regional alteration - pervasive pyrite - propyllite is locally intense. Near veins - intense propyllitization with or without shearing and small dykes, particularly in the hanging wall side.

Veins are epithermal - with Fe rich rhodocrosite chalcedonic quartz pyrite, sphalerite, minor chalcopyrite, tennantite, tetrahedrite. Au, Ag grades increase to the south-east.

CURRENT EXPLORATION RESULTS

1987 - 1988

i) Geology - Surface drilling located the Camp Zone - a series of veins with high Ag contained in silver minerals (argentite and ruby silver). 2590 decline cut No. 3 Vein 200' below main (2600) level - good Au-Ag-Zn ore and access for deep drilling - Development and drilling also located the NG3 Vein - a possible major extension of the No. 3 Vein which has been explored for over 4000 feet.

ii) Metallurgy:

Hydrometallurgical "scalping" approach along the following lines is being tested: bulk rougher concentrate will be oxidized and leached to yield a copper -zinc-iron-arsenic pregnant solution and a copper-lead-iron-silver-gold residue.

Zinc and copper will be put in solution and recovered in the form of precipitates, gold and silver will be recovered by cyanidation from solid residue.

Reserves

Geological, possible, probable and/or proven: Proven (No. 3 vein below 2,600' elevation): Number of zones: Number of sample points:

Average grade: Average thickness: Cut-off grade: 1,900,000 tons
200,000 tons
17
4,000 feet of drift,
+80 surface D.D.H.
+70 U.G. D.D.H.
\$189.00 N.S.R.
5 ft.
\$130 N.S.R.

N.S.R. = Net Smelter Return to the Mine

Costs

Recent exploration costs, i.e. (relating to above)

Projected exploration costs of program to development (if any)

Projected development costs given positive economics

Projected operating costs given positive economics

\$10,000,000

\$1,500,000 (subject to review)

\$30,000,000

\$110 - 130/ton

