

Property/Project

Authors

Name : Katie Project  
 NTS : 82F/3  
 Claims : Katie group Gus group  
           Elise group Lisa group  
           Swift group  
 Acreage: 99 sq mi ; 256.3 sq km 25.630 ha  
 Commodities: Cu - Au

Terry M. Naciuk

Agreements

(Ownership to Jan 14/93)

Katie / Gus / Lisa Options  
 Yellowjack 90%  
 Hemlo Gold 10%

Elise Option (Corona)  
 Yellowjack 29.40%  
 Hemlo Gold 17.00  
 Brenda Mines 13.60  
 Corona 40.00

Swift Option  
 (under negotiation)

History

Past Exploration Techniques	By Whom	Amount	Type	Cost
1980	Amoco	n/a	prospecting, soil geochem	n/a
1987-88	Corona	n/a	soil geochem mapping airborne geophysics	n/a
1985-87	Kidd Creek Mines Falconbridge Ltd. on Swift + Gus groups	1730 m 892 m	trenching drilling	\$ 9,260 107,000
1986	Ken Murray	n/a	soil geochem VLF-EM, mag	n/a
1988	Beloil Lassiter Petroleum	1200 m 305 m	trenching drilling	125,000
1989-91	Noranda	1:10,000 15 km 36 km 2508 m	mapping ) I.P. ) mag + soils ) drilling )	593,000
1991	Yellowjack /	1:10,000 6758 m	mapping ) I.P. ) soil geochem ) drilling )	642,000
1992	Yellowjack	4477 m	drilling	450,000

Geology

\$1,926,260

Regional

Lower Jurassic Rossland Group volcanics and sediments underlie the southern Quesnel Trough in the Salmo area. The Rossland Group consists of the basal Archibald Fm (argillites to pebble conglomerates), the middle Elise Fm (mafic to intermediate volcanics) and the upper Hall Fm (mainly argillites). The Rossland Group has been intruded by Late Jurassic to Cretaceous Nelson granite and diorite.

Local

Elise Fm andesitic tuff, feldspar crystal tuff and andesite breccias underlie much of the project area, particularly in the area of current drilling. These rocks are locally tightly folded with fold axes trending north to northeast. The stratigraphy is intruded by Jurassic diorite dykes and Late Tertiary feldspar porphyry, lamprophyre, and diabase dykes.

Alteration/

Ore Forming Minerals

Copper occurs as chalcopyrite + malachite + azurite + bornite + chalcocite. In higher grade intersections chalcopyrite occurs as narrow fracture-controlled stringers and aggregates. Gold occurs as inclusions with chalcopyrite or fractures in pyrite. High grade mineralization occurs in altered andesite, often within fractured zones. Propylitic alteration is common, as well, local potassic enrichment zones may indicate proximity to hydrothermal cores.

# Current Exploration Results

1991-1992

i ) **Geology** a) Regional exploration has focussed on the south and southwest portions of the airborne anomalies. Drilling and mapping over resistivity features suggest them to represent intrusive plugs surrounded by propylitically altered volcanics. Other regional work has outlined centres of silicification + sericitization + carbonatization + Cu-mineralization worthy of follow-up surveys.

b) Katie Option - Drillhole cross-sections have outlined Cu-Au enrichment along a relatively shallow dipping NW trend. Highlight results to date include:

<u>Hole</u>	<u>From</u> (ft)	<u>To</u> (ft)	<u>Length</u> (ft)	<u>Cu</u> %	<u>Au</u> oz/T
<u>Main Zone</u>					
NKT-91-13	144	579	435	.22	.009
incl	317	422	105	.37	.018
NKT-91-21B	160	870	710	.13	.005
incl	663	768	105	.19	.018
YKT-92-40	223	541	318	.23	.012
incl	390	492	102	.34	.010
<u>17 Zone</u>					
NKT-91-17	523	745	222	.32	.009
incl	607	687	80	.42	.012
YKT-92-39	148	413	265	.25	.009
incl	266	374	108	.36	.010

ii ) **Geochemistry (Soils)** Compilation of 1991 regional grid sampling with historical (1985-1992) results has outlined a Cu + Au enrichment trend of up to 12 km by 2.5 km wide. Pan concentrate samples from within this trend have yielded 225 ppm Cu, 7274 ppb Au; 286 ppm Cu, 6084 ppb Au; and 293 ppm Cu, 5357 ppb Au.

iii) **Geophysics** A 10.0 km coincident airborne total field mag and resistivity trend provides the focus for ground follow-up exploration. The trend is anchored in the north by the Katie zone and trends south through an identical signature over the Gus group and west to a third zone on the Elise option. Ground follow-up has shown the Katie zone to be characterized by an I.P. chargeability high and resistivity high, and a moderate magnetic anomaly. Drilling through this signature has provided the most favourable results.

iv ) **1993 Exploration Program** Optionor's choice.

v ) **Target** Results to date indicate a potential large bulk tonnage Cu-Au porphyry target present on the Katie property. The system, which is open in all directions, appears to improve in grade with depth.

<b>Reserves:</b>	Geological, possible, probable and/or proven	None proven
	Number of zones	2 primary exploration zones
	Number of sample points	56 DDHs to date
	Average grade	Sub-economic