

NAME OF GROUP: Horn Mountain Project N.T.S. 1041/SE  
NO. OF UNITS 116: Liard M.D. 861316

CLAIM NAMES:

units

EXPIRY  
DATES:

T. Horn 74	20	Aug. 3, 1989.
75	20	" "
76	20	" "
78	20	" "
79	16	" "
80	20	" "

TOTAL UNITS 116

PROPERTY GEOLOGY:

The property covers Upper Triassic and younger volcanics with minor sedimentary rocks. (Gabrielse 1969) These rocks are intruded by a hornblend granodiorite related to the Hotsiluh Batholith of Jurassic-Cretaceous age which outcrops eight kilometers to the south of the property area.

On the property andesitic flows and pyroclastics are intruded by a medium grained diorite-granodiorite. Some brecciation of the margins of the intrusive stock was reported.

## MINERALIZATION/ALTERATION:

The property covers an extensive gossan zone extending east-west roughly 3000 metres. Extensive shearing occurs in the zone which hosts disseminated lazulite, a mineral associated with a high temperature hydrothermal environment. Outcrops of the gossan are highly weathered and only local pyrite was reported. Unaltered volcanics host minor malchite, chalcopyrite and chalcocite in shears, quartz carbonate stringers and vug fillings. A soil survey conducted on the T-Horn #80 property returned statistically anomalous silver, copper, and molybdenum values from B-horizon soils. Test pits dug on, and to the north, of the T-Horn #80 claim indicated copper mineralization increased with depth. No reported samples were analysed for gold.

PROPERTY HISTORY:

The property was explored by ~~Union~~ Union Miniere Explorations from 1970 to 1973 for its molybdenum potential. Kenneco Explorations<sup>Ltd.</sup> explored the eastern portion of the property in 1973, and in 1975-1976 Utah Mines Ltd. explored the central portion of the property. Senama Resources explored the eastern portion of the property in 1982. These programs included soil and stream sediment sampling, geological mapping, IP geophysical surveys, and diamond drilling.

CAPSULE COMMENT:

An extensive gossan zone hosting significant shear zones remains untested for its precious metal potential, based on recorded work.

The presence of disseminated lazulite in the several shear zones suggests a mesothermal depositional environment.

The eastern portion of the property returned statistically anomalous silver values from B-horizon soil samples.

Outcrops of shear zones in the gossan zone are highly weathered and mineralization present in unaltered rocks is not present in the altered rocks due to leaching.

## RECOMMENDATIONS:

Bulk heavy mineral sampling of all property drainages should be conducted.

Mag/VLF-EM surveys should be conducted on the property to delineate shear and fault zone extensions covered by overburden.

Mapping and channel sampling on the property should be undertaken, with special attention paid to alteration and structure.

Previously mapped shear zones of significant size and exhibiting more intense alteration should be trenched to enable channel sampling of less weathered material.

REFERENCES:

Panteleyev, A.

1970: *Geology, Exploration and Mining in B.C.*, B.C.  
Department of Mines and Petroleum Resources,  
1970, page 38

---

1971: "

1971, page 45

---

1972: "

1972, page 539

Cloutier, G.A., Vyzelaar, J.,

1975: *Geological and Geophysical Report on the Tom  
Group 1*; B.C. Department of Energy, Mines, and  
Petroleum Resources, Assessment Report # 5769,  
8 pages.

Smee, B.W.,

1971: *Geochemical Soil Survey on the Lotus  
Group of Claims*; BC Depar. .... Resources ---  
--- Report # 3538, 16 pages.

Ball, C.W., Ashton, J.M.

1982: *Geochemical Report on the Drift Group  
Mineral Claims*; B.C. Depart. --- Report # 10356,  
36 pages.

OVER ↓

Graham, J.D.,

1982: Geochemical Report on the Drift

Group Mineral Claims; BC Department

--- Report # 10,923, 58 pages.

1971

1971, page 12

1975

1975, page 23

Clouston, G.A., (1975)

1975: Geological and geophysical report on the town

Group 1; B.C. Department of Energy, Mines and

Petroleum Resources Assessment Report # 576

8 pages

Trice, B.W.

1971: Geochemical soil survey on the town

Group of Claims; BC Dept. Resources

--- Report # 8238, 16 pages.

Bill, C.W., Ashton, M.

1985: Geochemical report on the Drift Group

Mineral Claims; BC Dept. --- Report # 10350

30 pages

Handwritten signature and arrow pointing down.