

ASSESSMENT REPORT

105G-03-1

TINTINA

PREPARED BY

DIAND TECHNICAL SERVICES

JANUARY, 1994

105G-03-1

TINTINA

LOCATION

Latitude: 61° 08'57"N

Longitude: 131° 09'38"W

The exploration site is in a very remote location approximately 125km north of the Alaska Highway near the headwaters of the Liard River. The exploration site is approximately 1600m above sea level on an unnamed peak of the St. Cyr Range of the Pelly Mountains.

Site maps showing the site location are included as Appendix A.

WORK HISTORY

A summary of the work history according to the Department of Indian and Northern Affairs Yukon Minfile 105G 006 is presented below.

- July, 1961 - Staked as Eagle claims by Conwest and Central Patricia Gold Mining Ltd., which formed Tintina Silver Mining Ltd. to develop the property.
- 1962 - Tintina constructed a 33.5 km winter road from Mile 780 on the Alaska Highway and completed 557.8m of drifting, 190.5m of surface drilling (6 holes), and 975.4m of underground drilling (22 holes). Fringe claims were held by Frobisher and by a syndicate composed of N.S. Edgar, D.R. Murphy, Magdalena Corporation Ltd., Canberra OCL, A. MacGregor, Veezay Helicopters Ltd., and Cordilleran Petroleum of Canada Ltd.
- 1967 - Control of the property was sold to a private group.
- 1968 - Tintina explored with geochemical surveys.
- 1974 - Mapping, geochemical, and electromagnetic surveys were completed. More Eagle claims were added. New Senator Rouyn Mining Ltd. completed drilling on the New fringe claims. Envoy Resources Ltd. conducted mapping and geochemical sampling on the Jim claims to the east.
- May, 1976 - Tintina added 100 CEC claims to the south and drilled 11 holes (1230.2m) and completed mapping and sampling on the New claims.
- 1980 - The company changed its name to Tintina Mining Ltd. and conducted a trenching and sampling program.
- 1983 - Metallgesellschaft performed mapping under a brief option.
- 1984 - Tintina conducted mapping and hand trenching.
- 1986 - The property was optioned by Cancord Resources.
- 1987 - Tintina Silver drilled 15 holes (1712m).

CLAIMS STATUS

Status of mineral claims including claim names and numbers, claim expiry dates, and current owners in the vicinity of the Tintina site have been noted as of 1992/05/15 as follows;

<u>CLAIM NAME/NUMBERS</u>	<u>EXPIRY DATE</u>	<u>OWNER</u>
Eagle 1-50, 57, 58, 66, 73, 77, 78, 81-85, 115-122, 123-154	July 15, 1992/93	Tintina Silver Mines Ltd.
New 1-24	September 23, 1993	Tintina Silver Mines Ltd.
CEC 5-8, 13-16	September 25, 1993	New Senator-Rouyn Ltd.
	May 3, 1993	Tintina Silver Mines Ltd.

The major commodities identified at this site are silver, lead, and zinc with minor commodities of copper, and cadmium.

The property is situated within a hornfels halo up to 3.2 kilometres wide developed in Cambrian limestone and phyllite around a Jurassic-Cretaceous stock. Unmineralized garnet-diopside-epidote skarn occurs locally at the contact. The host rocks consist of three limestone horizons separated by argillite.

The most important mineralization consists of a 90m long zone of massive to disseminated sphalerite, galena, and tetrahedrite in the middle limestone unit.

CURRENT SITE CONDITIONS

The site is remote and can be reached only by helicopter. An airstrip approximately 8 kilometres south of the site was constructed to service the mine exploration. Vegetation is now covering the airstrip, and if not now, will soon be too high to land fixed wing aircraft. A trail extends from the airstrip to the exploration site. According to records, a road was constructed from the Alaska Highway to the site, and pieces of this trail can be seen from the air. However it is obvious that this trail is impassable for vehicle traffic, appears overgrown, and has several large stream crossings between the site and the Alaska Highway.

The site is made up of two areas;

- the exploration area on and across the steep mountain slopes, and
- the abandoned camp below the exploration site.

A description of current conditions at each of these sites follows.

Exploration Site

The exploration site has been developed with drill sites and an adit all above tree line. The sites are situated on either barren bedrock or weathered bedrock covered with lichens. Alpine vegetation at this site includes moss campion, lichens, arctic heather, and short alpine grasses.

The only surface water in the area occurs from snowmelt and rainfall runoff. There are only intermittent small seasonal streams on the higher slopes.

Steep trails appear to interconnect all areas. The entrance to the adit was still covered by snow at the time of inspection on 1993/06/17.

The roads to the adit and drill sites have been constructed on weathered rock and bedrock. Minimal ground disturbance has occurred from development of these trails on rock.

The exploration adit situated near the base of a north facing mountain slope was covered with snow at the time of inspection, so an inspection of the adit entrance condition could not be completed. It is unknown whether or not the adit is adequately sealed and could only be checked when the snow is melted, likely near the end of July.

Waste rock has been dumped outside the adit entrance on a gently sloping area. This deposition was completed from ore cars on rails extending from the adit. The rail and track, less than 100m in length, is still in place along with a large pile of locally cut wooden lagging stacked in the same area as the waste rock.

Other material scattered around the site includes;

- 4 empty 204 litre barrels,
- 4 pieces of drill rod,
- approximately 30 pieces of solid drill rod, and
- a small amount of garbage (cans and jars).

Abandoned Camp

The abandoned camp below the exploration area, is located on a west facing slope below the exploration site. The camp site is just at tree line well above any streams. The vegetation surrounding the camp site consists of short grasses, willows and sparsely scattered black spruce to 5m high.

The following infrastructure was found remaining at this site;

1) Buildings

- * 1 - 7.6 x 14.6m plywood clad wood framed building used for core storage. This building is full of core, tools, miscellaneous pieces of small equipment, tools, and oil.
- * 1 - 3.7 x 2.7m plywood clad wood frame building used as a camp kitchen,
- * 1 - 2.4 x 3.0m plywood clad wood frame building used as a dining room,
- * 2 - 3.0 x 4.9m plywood tent frame bases,
- * 2 - 3.0 x 3.7m plywood tent frame bases.

2) Miscellaneous

- * 12 - 204 litre barrels of diesel,
- * 1 - 204 litre barrel of gasoline (3/4 full),
- * 10 - 6"x6" timbers, and
- * 7 pieces of drill pipe.

RECOMMENDATIONS

The site was first opened up in 1962 with additional exploration in 1974, 1976, 1980, and 1987. Development in 1962 included development of an underground adit and surface drilling. It appears that the remaining rail, track, and lagging is from this era. The remaining buildings appear newer and have been used during the most recent work, according to records found on-site.

Specific recommendations for the camp and exploration areas are presented below.

Exploration Site

Drill Sites and Roads - As noted, the roads to the drill sites have been constructed with minimal ground disturbance. The area is dry, has little vegetation cover, and is covered by snow for most of the year. These roads are slowly being revegetated from the surrounding vegetation. This process of natural revegetation should be left to continue. These roads are not considered an environmental liability.

Adit - The entrance to the adit was covered by snow at the time of inspection on 1993/06/17, and it is not known whether or not the adit entrance has been properly sealed. An inspection of this adit during the last two weeks of July would be the best time to verify conditions at this adit. Recommendations could be made after this inspection is completed.

The waste rock from the adit does not appear to have been milled or refined and does not appear to be an environmental hazard. This waste rock should be left alone.

The rail and track to the adit should be removed from the site if a clean-up program is initiated in the area, however this is considered a **LOW** priority. If a clean-up program is initiated for the site, the wooden lagging should also be burned.

Abandoned Camp

The wood structures at the site are beginning to show signs of deterioration which will only worsen with time. These buildings give a visual impact to the environment in this very remote location. It is recommended that these buildings be left untouched unless there is a clean-up program initiated in the area for **LOW** priority sites. If any clean-up is initiated for these buildings the work will need to include;

- cataloguing all worthwhile rock core,
- removing or disposing of the core according to Geological Services recommendations,
- removing all contents from the buildings and disposing in an acceptable way,
- dismantling all structures, piling all wood materials, and burning all wood waste according to acceptable practise, and
- removing all unburned waste from the site.

The twelve remaining barrels of diesel and one remaining barrel of gasoline could potentially leak or be spilled and damage the environment. Removal or disposal of these hydrocarbon products and barrels should be considered a **HIGH** priority.

It must be understood that any clean-up work at this site can only be initiated using helicopters to travel to and from the site.

Site Summary

Environmental issues observed at the site relate to clean-up of the camp site. No major environmental hazards associated with mineral production were noted.

Site remediation, if undertaken would focus on removing the camp site, possibly sealing off the entrance to the adit, and removing or disposing of the remaining hydrocarbon products. Remediation work for this site is considered a **LOW** priority with the exception of disposal of the hydrocarbon products which is considered a **HIGH** priority.

At present the remaining environmental hazards do not appear to be causing additional or long term damage to the area.

APPENDIX A

SITE LOCATION MAPS



SITE NAME: TINTINA

SITE NUMBER: 105G-03-1

MAP NUMBER: 105G

MAP NAME: QUIET LAKE

MAP SCALE: 1:250000

SITE LOCATION:

LATITUDE: 61° 08'57"

LONGITUDE: 131° 09'38"



SITE NAME: TINTINA

SITE NUMBER: 105G-03-1

AIRPHOTO NUMBER: A27661-195

YEAR: 1990

AIRPHOTO SCALE: 1:40000

SITE LOCATION:

LATITUDE: 61° 08'57"

LONGITUDE: 131° 09'38"

APPENDIX B

SITE PHOTOGRAPHS



TINTINA AIRSTRIP



APPROACH TO TINTINA CAMP AND EXPLORATION SITE



CAMP SITE



CAMP SITE



FUEL BARRELS BEHIND HELICOPTER



END OF WASTE DUMP, LAGGING ON LEFT



RAIL FROM ADIT, LAGGING ON LEFT