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R E P O R T

To The

**GRANBY
Consolidated
Mining, Smelting & Power
Co., Ltd.**

Name of Property

CYCLOPS GROUP

Division GREENWOOD M. D.

Owners

Mr. W. Tremblay - Mr. Cudworth
Mr. Leo Madden & Associates

Examined By

P. R. Matthew

Date July 23, 1956

802003

Report

on

The Cyclops Mineral Claim Group

Summit Camp

in the Greenwood Mining Division

British Columbia

by

P. R. Matthew

July 23, 1956

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Mr. L. T. Postle, President
Granby Cons. M. S. & P. Co. Ltd.
507-1111 Georgia Street
Vancouver, B. C.

Dear Sir:

I herewith submit a report on the Cyclops, Silver Chief fraction, Lancashire Lass, and adjoining Cy mineral claims, located in the Summit Camp area of the Greenwood Mining Division.

INTRODUCTION

The writer visited these claims on July 18, 19 and 20, 1956 in the company of Mr. W. Tremblay of Greenwood. Mr. Tremblay is owner of the Cyclops and part owner of the Silver Chief Fraction.

SUMMARY AND CONCLUSIONS

The three key claims, the Cyclops, the Silver Chief fraction and the Lancashire Lass are bisected by a contact, striking N20°E, between limestone on the west and volcanics on the east. The contact zone is altered to a garnet-epidote skarn and partially mineralized with sphalerite, minor chalcopyrite and magnetite.

Considerable work was done on the key claims by New Jersey Zinc Exploration Co. (Canada) Ltd. in 1954. This work outlined 5,000 tons of 8 to 10% zinc by diamond drilling. A limited soil analysis survey for zinc revealed only minor anomalies. It was apparently felt that the possibilities of large tonnages were poor and their option was dropped.

The writer's opinion is that, although the contact zone is favorable, the extent of the skarn zone - in which copper mineralization is usually found

in the area - is too limited to carry large tonnages. There is a distinct possibility of small tonnages of both copper and zinc. The proximity of the property to Phoenix lends an added attraction.

LOCATION AND ACCESS

The property is midway along the main highway between Grand Forks and Greenwood, and immediately south of the old Oro Denoro Mine. The main mineralized zone is within one-half mile of the main highway and is crossed by the now abandoned C. P. R. and G. N. railroad grades. The railroad grades make good motor roads and connect the property to Phoenix four miles to the south.

STATUS OF THE PROPERTY

The Cyclops and the Silver Chief fraction are under option by Granby from Mr. W. Tremblay of Greenwood and Mr. Cudworth of Penticton. The Lancashire Lass and the seven Cy claims are under option from Mr. Leo Madden of Grand Forks and his associates.

TOPOGRAPHY, TIMBER, AND WATER

The topography is rolling with fairly heavy overburden between occasional outcrops. Timber is second growth but reaching a size suitable for mine construction. Water is not abundant but adequate for a small mining operation.

DESCRIPTION OF SHOWINGS

Previous Work

The Cyclops fraction was examined by Mr. C. D. Martin on Sept. 10, 1915 for Granby - Report No. 296. Mr. Martin's brief report is as follows:

"Cyclops - The Cyclops is a fractional claim of about 8 acres in Summit Camp joining the Oro Denora on the south. It is largely in white crystalline limestone.

The only opening showing ore, is a ten-foot tunnel about 1,000 feet south of the Oro Denoro glory hole. Here the limestone is silicified and contains chalcopyrite in bunches."

"A sample from a ten-foot section gave the following results:

Copper	Gold	Silver	Silica	Iron	Lime
1.2	Tr.	0.1	57.4	8.9	17.6

This claim has every indication of containing a small body of commercial ore within a few feet of the Railway."

During 1954 the Cyclops, Silver Chief fraction, and Lancashire Lass were under option to New Jersey Zinc Exploration Co. (Canada) Ltd. Considerable exploratory work was carried out. The work included eight diamond drill holes which established the limits of a 5,000 ton zinc vein near the south boundary of the Cyclops. A soil analysis survey for zinc was run from the zinc vein 1,200 feet north to a small zinc showing at the north boundary of the Cyclops. The soil analysis shows several low anomalies, but apparently it was not felt that further work was warranted. The three claims were mapped in detail on a scale of 100 feet to the inch.

At the present time, Noranda is doing considerable geophysical and biogeochemical work in the area, and their picket lines cross the property. The results of their work should be available to Granby when completed.

GEOLOGY

The main rock type on the claims is a white crystalline limestone, which strikes N20°E and dips steeply west. To the east and in contact with the limestone is a basic andesitic volcanic. The contact is generally altered to an epidote-garnet skarn. This skarn zone is 250 feet wide at the northern

boundary of the Cyclops, but narrows to a zone 10 to 20 feet wide further south. The limestone is cut by an alkali-syenite porphyry to the northwest. The porphyry does not outcrop on the property. Several feldspar-biotite porphyry dykes cut the limestone and one small diorite outcrop is located to the east of the skarn zone near the north boundary of the Cyclops.

MINERALIZATION

The main zone of mineralization lies within the skarn zone and consists of disseminated chalcopyrite and sphalerite. A series of samples were taken on the surface outcrops across the skarn zone at the north boundary of the Cyclops with the following results:

<u>Sample</u>	<u>Length</u>	<u>% Cu.</u>	<u>% Zn.</u>	<u>Remarks</u>
1	8	0.09	0.60	
2	12	0.39	0.55	Above and ahead of the tunnel - see below.
3	4	0.07	0.55	
4	16	0.08	0.60	
5	18	Tr.	0.70	
6	9	0.09	6.66	

Four samples were taken on the walls of a small tunnel driven near the eastern side of the skarn zone. (This is the same tunnel mentioned in the report by C. D. Martin). These samples show the following assays:

<u>Wall</u>	<u>Position</u>	<u>Length</u>	<u>% Cu.</u>	<u>% Zn.</u>
North	Collar to 9'	9'	1.33	0.60
North	Collar +9' to 14'	5'	0.47	0.50
South	Collar to 6'	6'	1.19	0.76
South	Collar +6' to 11'	5'	2.57	0.60

Twelve-hundred feet south of the north boundary of the Cyclops, a small body of sphalerite with traces of chalcopyrite occurs in the limestone at the volcanics-limestone contact. This showing was examined by New Jersey Zinc and eight holes drilled to prove the extent. The drilling indicated the body to be shallow and to contain approximately 5,000 tons of 8 to 10% zinc. A tunnel has been driven well into the ore. A road leads into the showing, and an ore bin and core shed have been constructed.

Five-hundred feet south of the zinc showing, two shallow trenches have been dug on the contact. Here the skarn zone is 10 to 20 feet wide and somewhat sheared. The rock contained minor disseminated sphalerite.

Near the centre of the Lancashire Lass claim a large open cut 200 feet along and a shaft thirty or forty feet deep were sunk on a ten foot magnetite vein containing pyrite and some chalcopyrite. This vein occupies the skarn zone and is thus on strike with the previous mentioned mineralized showings. A large amount of ore was removed but none was ever recorded as being shipped (see Minister of Mines Report for 1904 - Page 221).

The similarity of the Lancashire Lass magnetite vein to those of the old Emma and Oro Denoro mines warrants a brief description of the worked out properties. The Oro Denoro lies immediately north of the Cyclops claim and is on strike with the limestone-skarn zone. The Oro Denoro produced approximately 171,000 tons of magnetite ore carrying 1.0 to 1.5% copper with values in gold and silver. The vein is twenty feet wide, with an irregular strike but a north-south trend. The Emma Mine lies immediately north of the Oro Denoro and produced 244,000 tons of the same type of ore from a thirty foot vein.

This vein had a N30°E strike and vertical dip. The ores were valued for their fluxing properties.

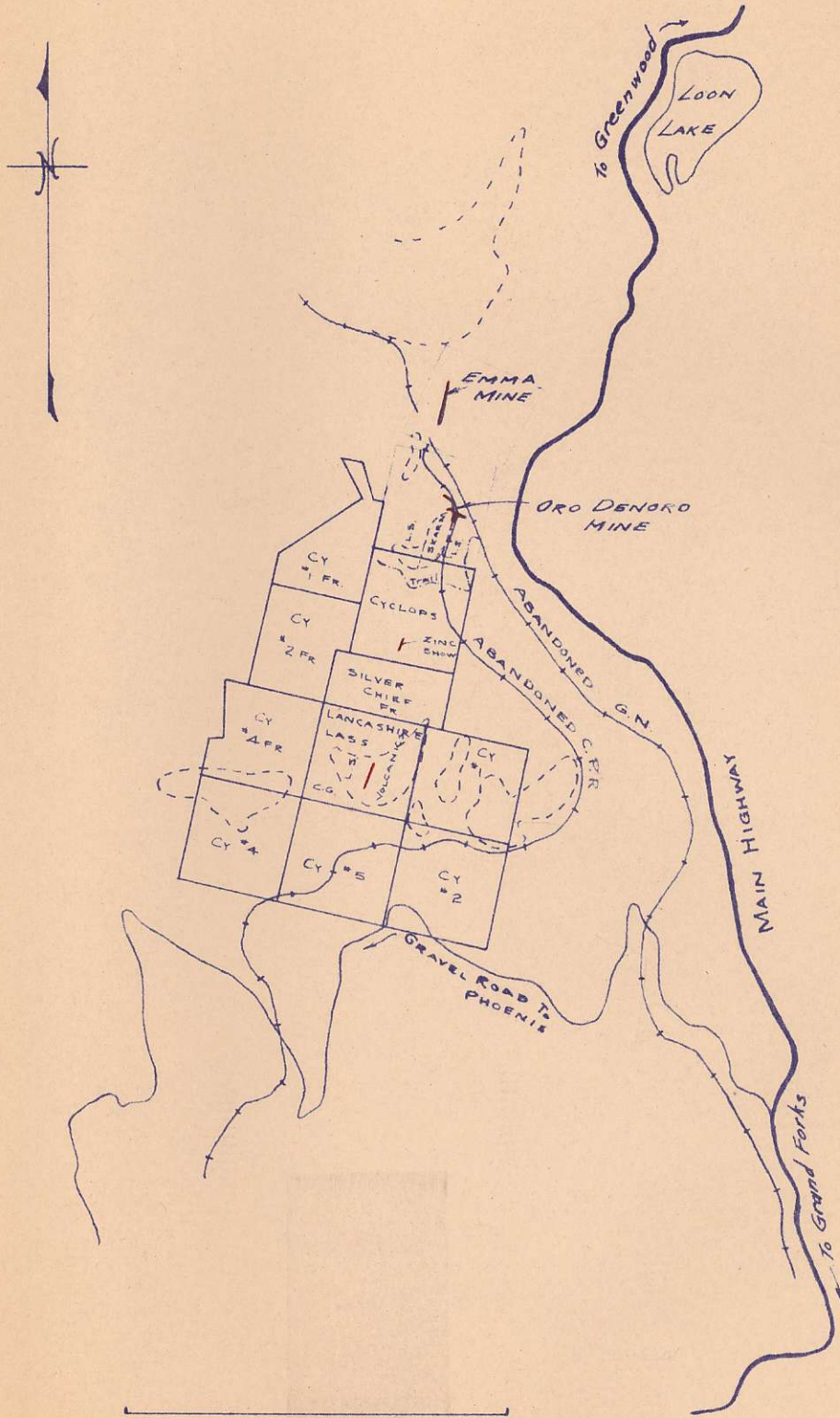
A small magnetic anomaly was located on the Cy #1 fraction by Mr. Tremblay. A small area was exposed by a bulldozer cut which has since sloughed in. Mr. Tremblay states the magnetite occurred in alkali-syenite porphyry and contained minor copper stain.

A limited number of dip needle readings were taken across the contact zone on the Cyclops without finding anomalous readings.

Respectively submitted,

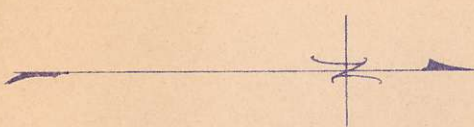
P. R. Matthew
Geological Engineer

PRM: jc



- MAIN PAVED HIGHWAY
- GRAVEL ROAD
- ABANDONED R.R. USED AS ROADS
- (---) OUTCROP AREAS

LOCATION MAP
 TRACED FROM AIR PHOTOGRAPH



CYCLOPS ORO DENORO

L.S.
Narrow dyke

L.S.
#1 { 7% Cu
5 0.70% Zn
#2 { 0.09% Cu
6 6.66% Zn
#3 { 0.07% Cu
3 0.55% Zn
#4 { 0.08% Cu
0.60% Zn

SKARN

	%Cu	%Zn
#1	1.33	0.60
#2	0.47	0.50
#3	1.19	0.76
#4	2.57	0.60

TUNNEL
#1 { 0.09% Cu
0.60% Zn
SKARN

DIORITE

C.P.R. GRADE

Small Spring

MINERALIZED SKARN
ON CYCLOPS M.C.
Showing position & grade
of samples

1" = 100' P.R.M.








LANGASHIRE LASS C.G.

SILVER CHIEF FRACTION

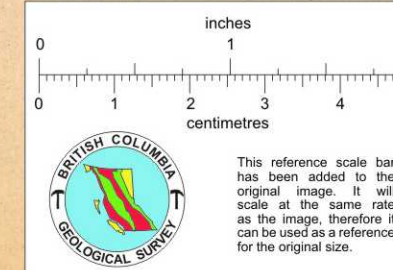
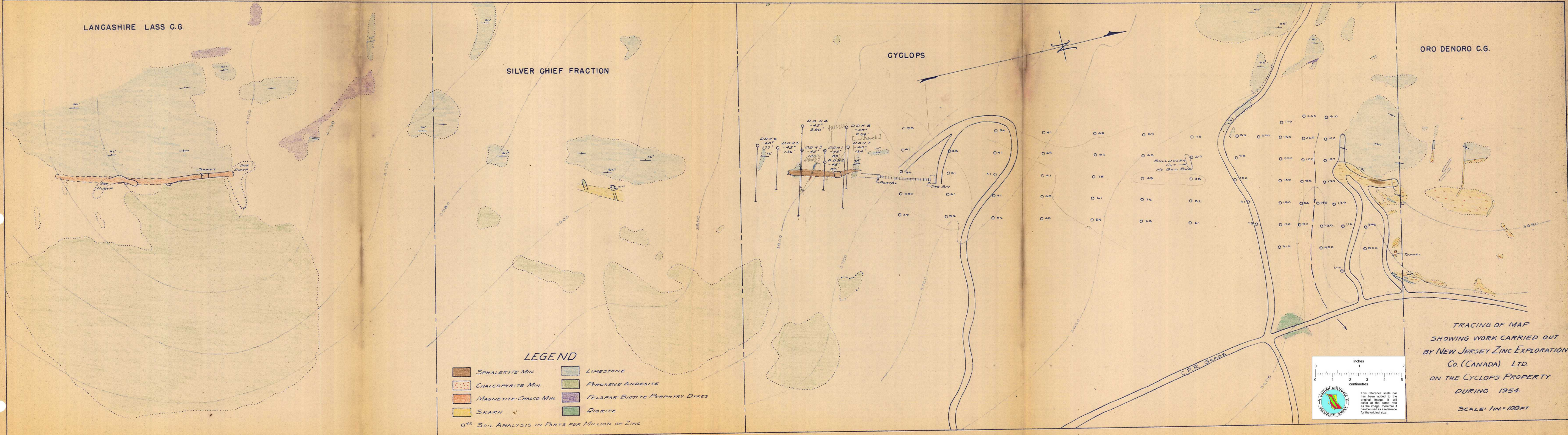
GYCLOPS

ORO DENORO C.G.

LEGEND

- | | |
|---|--|
|  SPHALERITE MIN. |  LIMESTONE |
|  CHALCOPYRITE MIN. |  PYROXENE ANDESITE |
|  MAGNETITE-CHALCO MIN. |  FELSPAR-BIOTITE PORPHYRY DYKES |
|  SKARN |  DIORITE |

0.4% SOIL ANALYSIS IN PARTS PER MILLION OF ZINC



TRACING OF MAP
 SHOWING WORK CARRIED OUT
 BY NEW JERSEY ZINC EXPLORATION
 Co. (CANADA) LTD.
 ON THE GYCLOPS PROPERTY
 DURING 1954
 SCALE: 1 IN. = 100 FT.