File # 2.6907



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REPORT ON

MINING CLAIM

Pa 704623

PATRICIA MINING DIVISION

MINING LANDS SECTION

prepared by:

J. W. Redden, B.Sc. P. O. Box 117 Wabigoon, Ont. POV 2WO

# INTRODUCTION

Claim Pa 704623 was staked in April, 1983 to cover a high grade gold showing which outcrops on the shore of Sturgeon Lake. The claim is presently held in the name of J. W. Redden.

# LOCATION AND ACCESS

The claim is located midway along the northwest shore of Sturgeon Narrows about 3 miles south of King Bay. The claim includes the north west part of the most prominent bay on Sturgeon Narrows. The claim is about 50 miles northeast of Ignace.

An all-weather road lies within this road the claim. A trail leads from this road to the claim. This road (locally called the Elk Road) is one of a network of logging access roads which connect with Highway 599 via the Six Mile Lake Road.

## PREVIOUS WORK

The Sturgeon Lake area has been actively explored off and on for 90 years. The showing on claim Pa 704623 was likely found prior to 1900. There is no documentation from this period but as the showing is on the shore line early discovery was probable.

The only documentation available on the claim in the Regional Geologist's Office in Sioux Lookout consists of a few drill logs filed by Falconbridge Nickel Mines Ltd. from diamond drilling carried out in 1974.

A complete copy of the work report detailing the work done by Falconbridge has been obtained and, together with a visit

to the property by the author, constitute the core of this report.

During 1969 W. G. Wahl Ltd. carried out a magnetic survey and diamond drilling (D.D.H. 69-1 to 69-5). In 1970 Selco drilled D.D.H. 242-22 and D.D.H. 242-23. In 1974 Falconbridge Nickel Mines Limited carried out linecutting, magnetic, r.M. and I.P. surveys, diamond drilling (D.D.H. J-1 to J-8), trenching and geological mapping.

Since 1974 the property has been staked several times but little if any work has been done.

# DISCUSSION OF WORK TO DATE

The geological mapping has been reproduced from the Falconbridge report. The map indicates the claim is underlain by a 20% felsic 40% mafic pyroclastic with a prominent ENE-wSW trending syenite dyke. Mapping by the MNR show the syenite within sediments. The present writer has not examined the rocks in sufficient detail to resolve the different opinions.

The gold occurs in quartz stringers and pyrite cubes within the syenite dyke. Some spectacular webs of dendritic gold occupy cavities in the rock from the dissolution of pyrite. Grab samples have assayed over 4.0 oz./ton Au from this zone. The gold occurs in a portion of the dyke about 15 feet long on the shore of Sturgeon Lake.

Except for gold content the entire syenite dyke appears similar in composition. Geophysics and diamond drilling have so far been unable to indicate continuity of the gold-bearing zone.

THE MAGNETIC SURVEY INDICATES TWO PROMINENT MAGNETIC The magnetic survey indicates two prominent magnetic Highs Just to the north of the showing of unknown cause. The highs just to the north of the showing of unknown cause. The Magnetic High to the South of the Claim is due to magnetite in magnetic right to the south of the claim is due to magnetite in the pyroclastics.

THE EM. SURVEY SHOWS ONE PROMINENT ANOMALY TO THE THE ..... survey shows one prominent anomaly to the North of the Claim. This has been attributed to a band of GRAPHITE.

graphite.

THE I.P. SURVEY WAS DECONTINED WHEN IT WAS FOUND
THE I.P. SURVEY WAS discontinued when it was found
THAT THE PYRITE CONTENT OF THE VOLCANICS WAS TOO HIGH TO PERMIT that the pyrite content of the volcinics was too high to permit
DEFINITION OF THE PYRITE-BEARING SYENITE.
definition of the pyrite-bearing syenite.

CONCLUSIONS

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THE REASONFOR THE LOCAL GOLD ENRICHMENT IS UNKNOWN.

1. The reason for the local gold unrichment is unknown.

ALTHOUGH EXTENSIVE WORK HAS BEEN CARRIED OUT THE ORE CONTROLS Although extensive work has been carried out the ore controls are not defined. The previous work would not have identare not defined. The previous work would not have identare not defined. The previous work would not have identare not defined. The previous work would not have identare ified a north-south trending gold-bearing dyke. If such a lifted a north-south trending gold-bearing dyke. If such a dyke exists, it would explain the difference in the degree of ALTERATION BETWEEN THE GOLD-BEARING BONE AND THE REST OF SITE ENE - WSW TR ENDING DYKE.

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the gold occurrence. Knowledge of these controls could be

Applied to the Sparch for Similar Deposits within the

STURGEON LAKE AREA.

Sturgeon Lake area.

RECOMMENDATIONS

RLCOMMENDATIONS

DUE TO THE LOCATION OF THE CLAIM ON THE SHUREOF Due to the location of the claim on the shore of STURGEON LAKE PROPOSÉD WORK SHOULD FIRST BE DUCUSSED WITH Sturgeon Lake proposed work should first be discussed with MNR PERSONNEL TO RESOLUE ANY POTENTIAL CONFLICTS. MNR personnel to resolve any potential conflicts.

1. THE ENTIRE AREA WITHIN 100 FEET OF THE SHOWING SHOULD BE

1. The entire area within 100 feet of the showing should be STRIPPED, WASHED AND MAPPED IN DETAIL. SAMPLES SHOULD BE strigged, washed and mapped in detail. Lamples should be SENT FOR WHOLE Rock ANALYSIS. Fint for whole rock analysis.

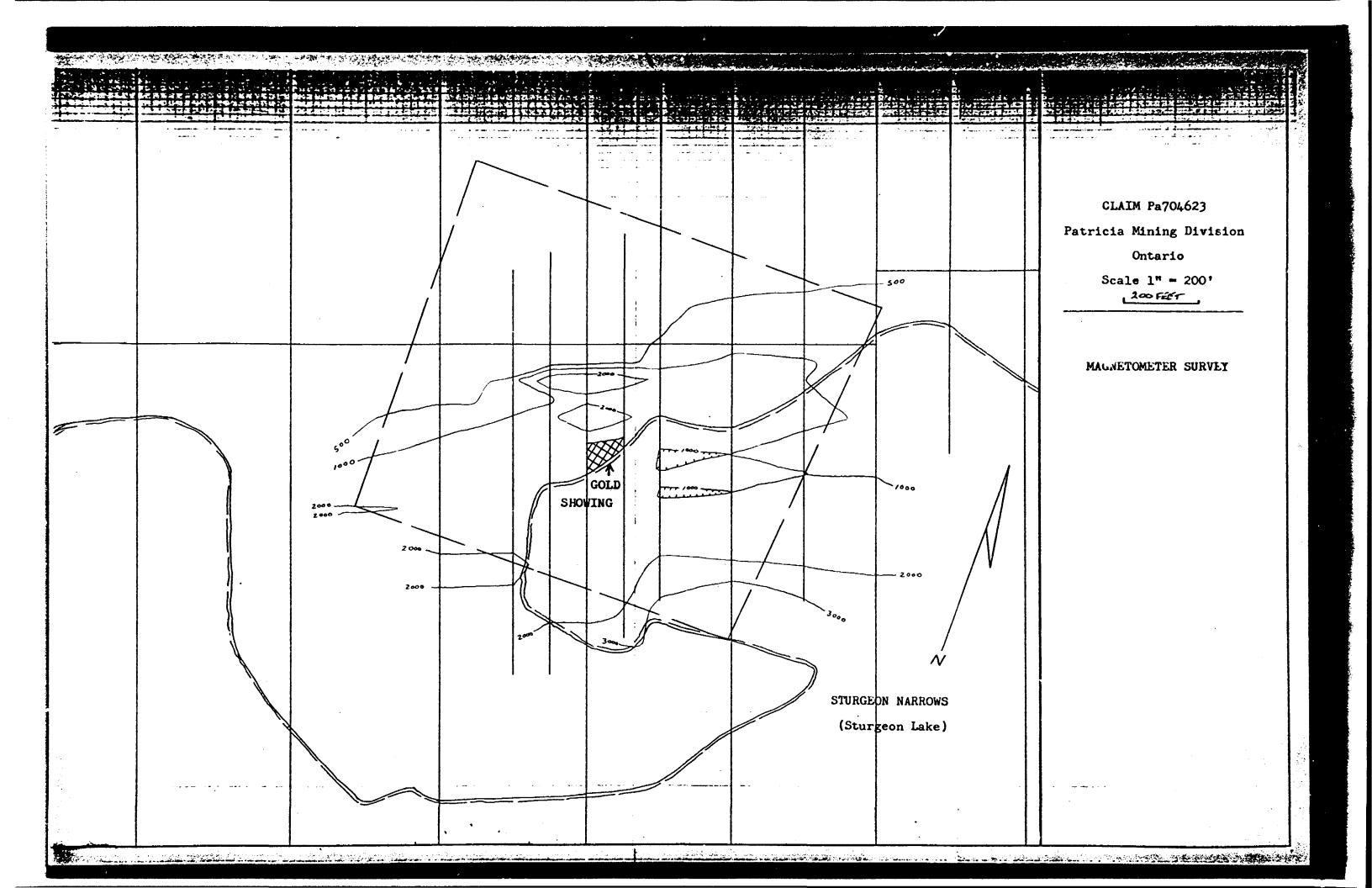
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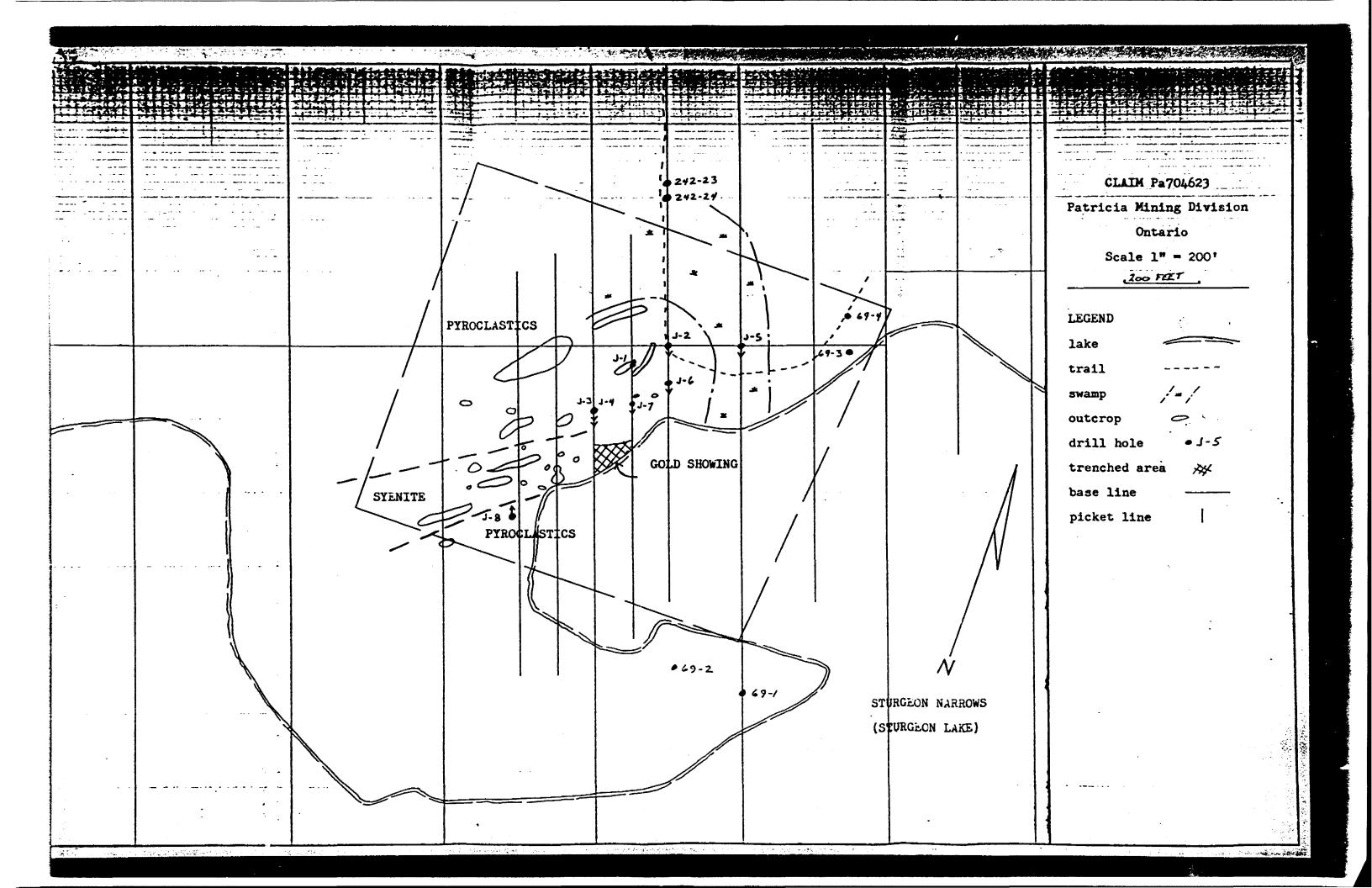
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ADDITIONAL CLAIMS SHOULD BE STAKED TO COVER POSSIBLE additional claims should be staked to cover possible EXTENSIONS OF THE GOLD BEARING ZONE AS INDICATED From THE extensions of the gold bearing zone as indicated from the DETAILED MAPPING

detailed marring. THE CLAIM (AND ANY OTHERS STAKED) SHOULD BE MAPPED. The claim (and any others staked) should be mapped, Augmented by stripping and/or trenching where required to OBTAIN SUFFICIENT DETAIL. obtain sufficient detail.

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Bir 119 wahigeon Cay Porgos

J.W. REDDEN Box 117 Ph. 938-6915 Wabigoon, Ont. POV 2WO

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J.W. Redden

Bank of Montreal 21 King St. Dryden, Ont. PBN 2Z5

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Your File: 59 Our File: 2.6907

Mr. Albert Hanson Mining Recorder Ministry of Natural Resources P.O. Box 309 Sioux Lookout, Ontario POV 2TO

Dear Sir:

We have received Data for a Consultant's Study submitted under Section 77(19) of the Mining Act R.S.O. 1980 for Mining Claim PA 704623 in the Area of Six Mile Lake.

This material will be examined and assessed and a statement of assessment work credits will be issued.

Yours sincerely,

S.E. Yundt Director Land Management Branch

Whitney Block, Room 6643 Queen's Park Toronto, Ontario M7A 1W3 Phone: (416)965-4888

#### A. Barrimo

cc: J.W. Redden
Box 117
Wabigoon, Ontario
POV 2WO