

BC Geological Survey  
Assessment Report  
08275

ASSESSMENT REPORT

Cold Mineral Claim

Fort Steele M. D.

NTS: 82G/4W

Long.:  $115^{\circ}56'00''\text{W}$

Lat.:  $49^{\circ}06'30''\text{N}$

Owner & Operator: St. Eugene Mining Corporation Ltd.

Author: John R. Wilson

Dated 24 June 1980

MINERAL RESOURCES BRANCH  
ASSESSMENT REPORT

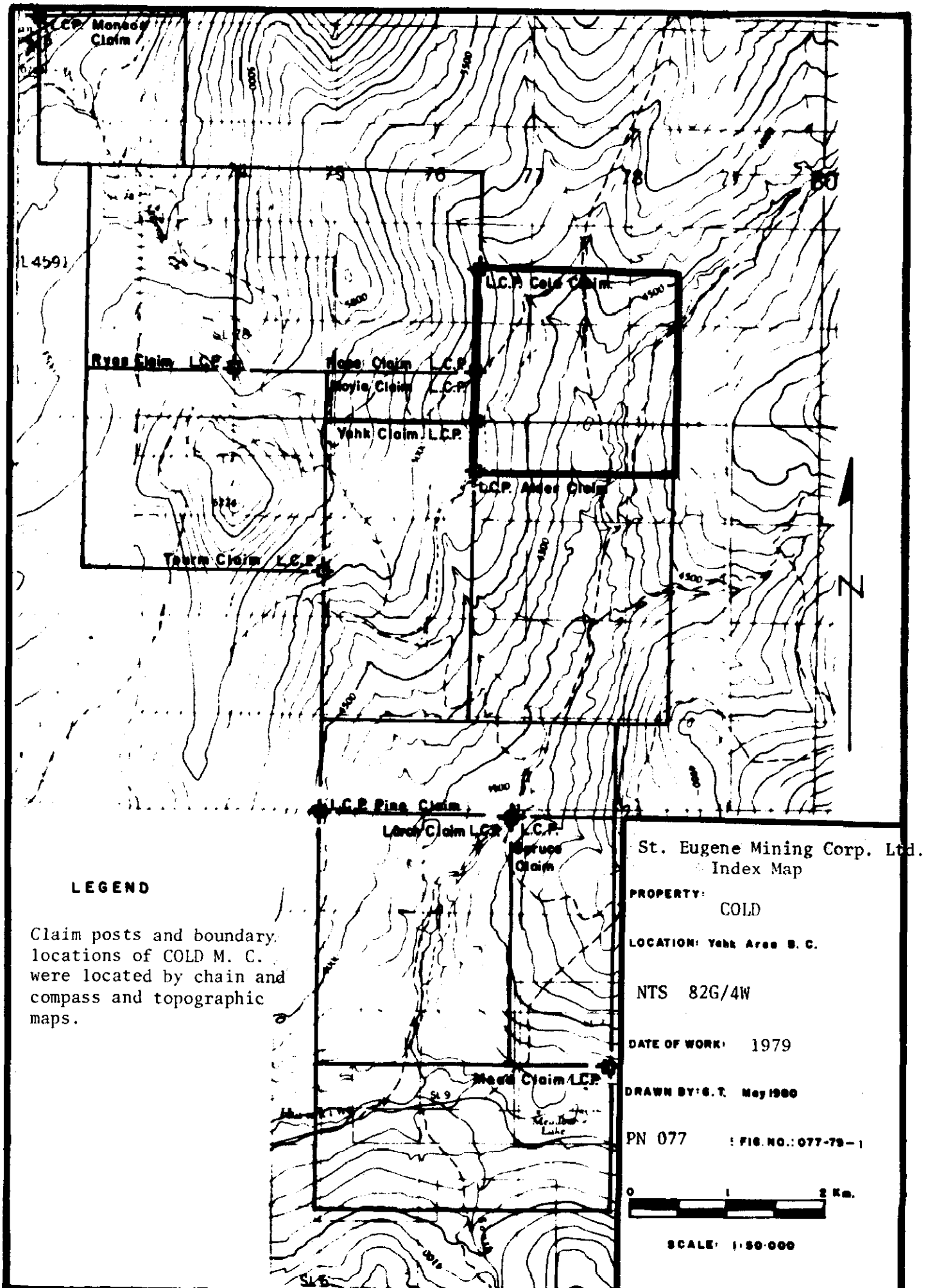
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## TABLE OF CONTENTS

	<u>Page</u>
INTRODUCTION . . . . .	2
DETAILED DATA . . . . .	2
INTERPRETATION OF DATA . . . . .	3
STATEMENT OF COSTS . . . . .	9
AUTHOR'S QUALIFICATIONS . . . . .	10

### MAPS

Index Map	( Fig 077 - 79 - 1 )	1
Geochemistry	Cu Fig 077 - 79 - 2	4
Geochemistry	Pb Fig 077 - 79 - 3	5
Geochemistry	Zn Fig 077 - 79 - 4	6
Geochemistry	Ag Fig 077 - 79 - 5	7
Geochemistry	Cd Fig 077 - 79 - 6	8



## INTRODUCTION

The Cold Claim (16 units) is located approximately eleven kilometres east northeast from Yahk, B. C. It mainly covers part of the western slope of Cold Creek valley. Elevations range from 1494 to 1281 metres.

Access is by the main Cold Creek logging road which passes through the claim. This road branches north from Hawkins Creek road about 10 kilometres southeast from Yahk.

The claim was staked in the summer of 1979 and work consisted of collecting a total of 142 soil samples. Analyses were made for Cu, Pb, Zn, Ag and Cd.

All work was on the Cold claim.

The current owner and operator is St. Eugene Mining Corporation Limited.

None of the work produced encouraging results. No geochemical anomalies were found that warranted follow up.

## DETAILED DATA

### Geochemical Work

Soil sampling along contours, roads and down the sides of creeks at 60 metre intervals produced a total of 142 samples. Each sample came from the B-horizon at depths varying from 5 to 25 cm. but usually at about 15 cm. Mattocks were used to recover the soil which was placed in kraft paper envelopes and sent to Bondar - Clegg and Co. Ltd. of North Vancouver, B. C. for sample preparation and analysis. The -80 mesh fraction was analysed by normal geochemical techniques (Cu, Pb, Zn, Ag and Cd was extracted by the hot Aqua Regia and then analysed by atomic absorption). 142 analyses were made for Cu, Pb, Zn, 138 for Ag, and 74 for Cd.

INTERPRETATION OF DATA

Geochemical results were not encouraging. Only near samples 32156 to 32158 were higher than normal values for a variety of elements found ( for example 131 ppm Cu, 26 ppm Pb, 138 ppm Zn, 1.0 ppm Ag ). Usual ranges for Cu is 20 to 30 ppm, for Pb - 10 to 20 ppm, for Zn - 50 to 70 ppm and for Ag and Cd - 0.2 ppm.

No follow up was made to examine this weak anomaly.

John R Wilson

STATEMENT OF COSTS

A total of 3 man days collecting soil samples (parts of June 26, 27, 28, July 5, 7, August 4, September 8, 14, 15 and 16) @ \$40/day wages	\$120.00
3 man days (see above) food & accomodation @ \$15/day	45.00
3 days truck rental (see above) @ \$20/day	60.00
142 soil samples analysed for Cu @ \$1.50/sample	213.00
142 soil samples analysed for Pb @ 0.65	92.30
142 soil samples analysed for Zn @ 0.65	92.30
138 soil samples analysed for Ag @ 0.65	89.70
74 soil samples analysed for Cd @ 0.65	48.10
Background correction @ 15¢/element	95.70
142 soil samples prepared for analysis at 0.45/sample	63.90
Preparation of assessment report (drafting, typing)	150.00
Total	<hr/> 1070.00

Author's Qualifications

John R Wilson graduated from the University of B.C. in 1972 with a BSc ( honours geology ) and has worked for the Falconbridge Nickel Mines group of companies since graduation as an exploration geologist.

The project was supervised by Leslie A. Tihor, project geologist, a Phd candidate at McMaster University ( geology ).

