

A REPORT ON A PRELIMINARY EVALUATION
of the
ZEOLITE OCCURRENCES
on the
CASH CLAIMS,

SIMILKAMEEN MINING DIVISION, B.C.

by

T.L. Sadlier-Brown

December 8th 1995

GEOLOGICAL SURVEY BRANCH ASSESSMENT REPORTS
DATE RECEIVED JAN 26 1996

FILMED

Claim Owner:

N. Wychopin; 203 828 W. Hastings St., Vancouver, B.C.

Project Operator:

N. Gangnes; 885 Cornell St., Coquitlam, B.C.

Claim Location:

NTS 92H/9W/10E; 49° 34'n.lat; 120° 30'w.long.

**GEOLOGICAL BRANCH
ASSESSMENT REPORT
NEVIN I SADLIER-BROWN I GOODBRAND LTD.
CONSULTING GEOLOGISTS**

24,239

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INTRODUCTION

Terms of Reference and Scope of Report

This report was prepared at the request of Mr. N. Gangnes and is intended as an account of a prospecting and evaluation program carried out on the Cash Claims, Similkameen M.D., B.C. on July 26th 1995. It includes a description of the geological and physiographic setting on the claims and an account of analytical results from several samples of material from the property. It is based on published data and on observations made during the course of the field work which was concentrated in an area of the property known to be underlain by zeolite bearing rocks.

Location and Access

The Cash Claims are centred along the Summers Creek road at a point about 5 km north of its intersection with Highway 5 and some 12 km due north of the town of Princeton. Zeolitized rocks occur on the hillsides on both sides of the Summers Creek valley and are accessible from the main road and from several unimproved roads and trails which lead from it in the general vicinity of the Summers Creek bridge.

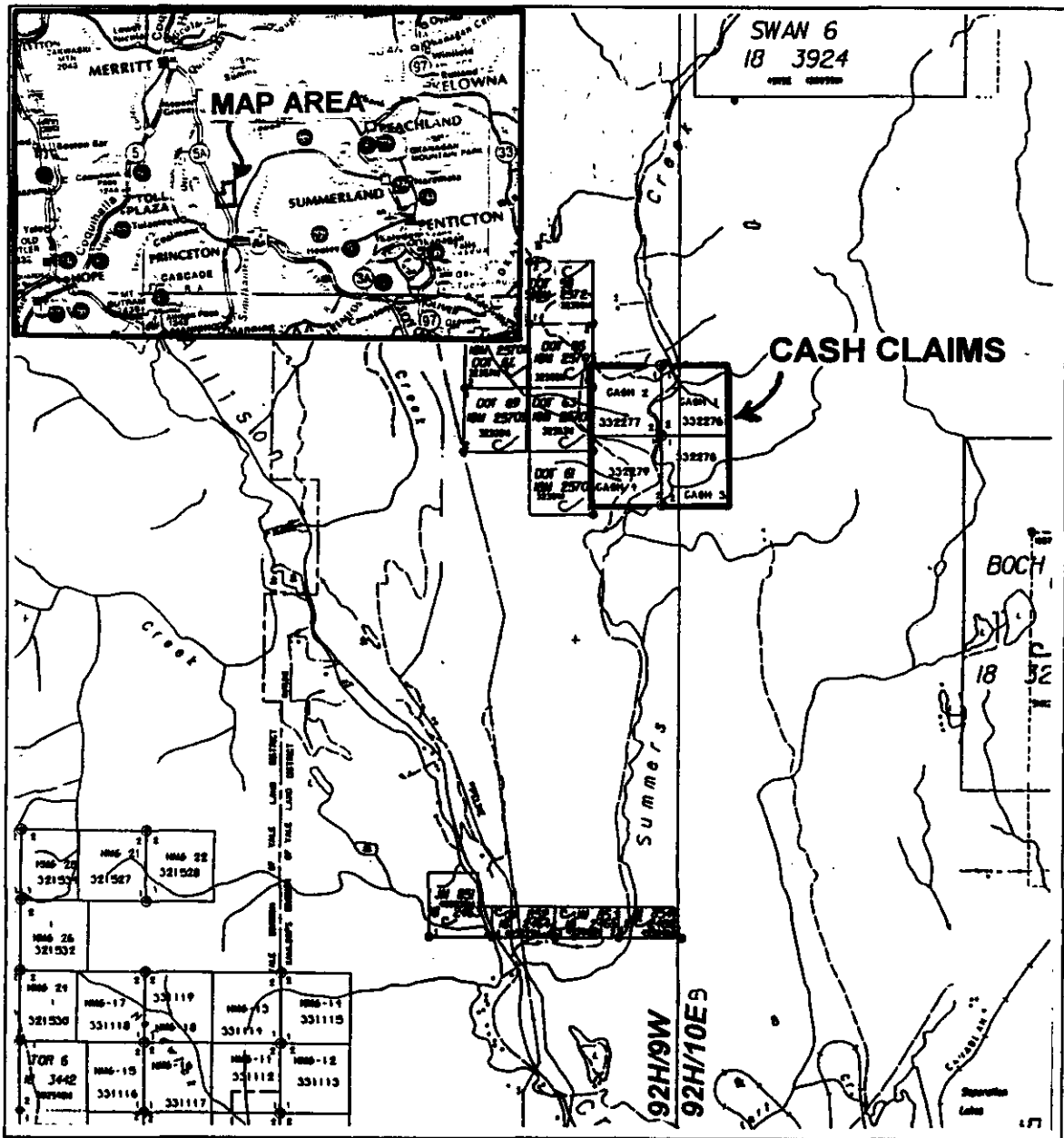


Figure 1: Index and Claim Location Map

Title Considerations

The property consists of four two-post claims recorded in the name of Nick Wychopin and held under terms of an option agreement by N. Gangnes who provided the funding for the work under discussion.

The claim area is shown on NTS Sheets 92H/9w and 92H/10e and the claims themselves are depicted on the Mineral Titles Map covering the southern parts of these sheets. Claim names and numbers are as follows:

Claim Name	Record Number
Cash 1	332276
Cash 2	332277
Cash 3	332278
Cash 4	332279

The date of record is November 2 and the current expiry date is November 2 1997.

Two sets of claim posts were observed and, in the opinion of the writer, the claims are staked in a manner consistent with the Mineral Titles Act regulations.

Previous Work

The Princeton area of southwest B.C. has historically been known for its deposits of copper, placer gold and coal. Potentially economic deposits of zeolite were only recognized during the 1980s and initially described by Read (1986). Later mapping (Read 1987) describes five stratigraphic units which exhibit some level of zeolitization including: the Sunday Creek Tephra; Snowpatch Ash; Asp Creek Ash; Summers Creek Sandstone; Tailings Ash and Bromley Vale Tephra. The mapping also depicts five occurrences of zeolite within the Cash Claim group.

The claims were initially prospected for zeolite by D. Hopper who observed and sampled several of the zeolite occurrences.

GEOLOGICAL OBSERVATIONS

The Cash claims cover part of an extensive area of zeolitized arkosic sandstone which comprises the Summers Creek Sandstone unit of the Allenby Formation. The Allenby formation is the dominant component of the Princeton Group, the sequence of Eocene sedimentary, and volcanic rocks which forms the Princeton Basin. It also hosts all of the zeolite deposits known in the area.

Zeolitized rocks occur within the claims on both sides of Summers creek but the most extensive and accessible exposures are those on the east slope, mainly in the area east of the Summers Creek bridge. Two occurrences of zeolitized rock were sampled in this general area. They represent different stratigraphic horizons within a thick section of well bedded medium grained arkosic sandstone. The strata tend to strike at 080° to 090° and dip moderately (20° to 30°) south. Five samples were sent for analysis to Norwest Labs of Langley, B.C. They were tested using standard procedures for cation exchange capacity, a measure of the effectiveness of the mineral as an ion exchange medium. Results reported in milliequivalents per 100 grams (meg/100g) are shown in Appendix I and summarized in the table below.

BHZ 1 was taken from a readily accessible outcrop adjacent a road near an unoccupied house on private property about 100 metres north-east of the bridge. It consists of zeolitized medium grained arkosic sandstone containing numerous quartz grains and small coal fragments. It was empirically judged to be impure and not included for analysis.

Samples BHZ 2 - 5 represent a stratigraphic interval of Summers Creek Sandstone with a thickness in excess of 25 metres. It is located in and near a small canyon which is locally and somewhat deceptively referred to as "Limestone Canyon" and located about 500 metres east of the bridge. Samples BHZ 1 and 6 are from intervals in the lower part of the exposed section in the general area.

CEC determinations were carried out on samples 2 through 6 with the following results:

Sample No.	CEC Value (meq/100gm)
BHZ 2	39.4
BHZ 3	40.4
BHZ 4	33.1
BHZ 5	21.0
BHZ 6	26.5

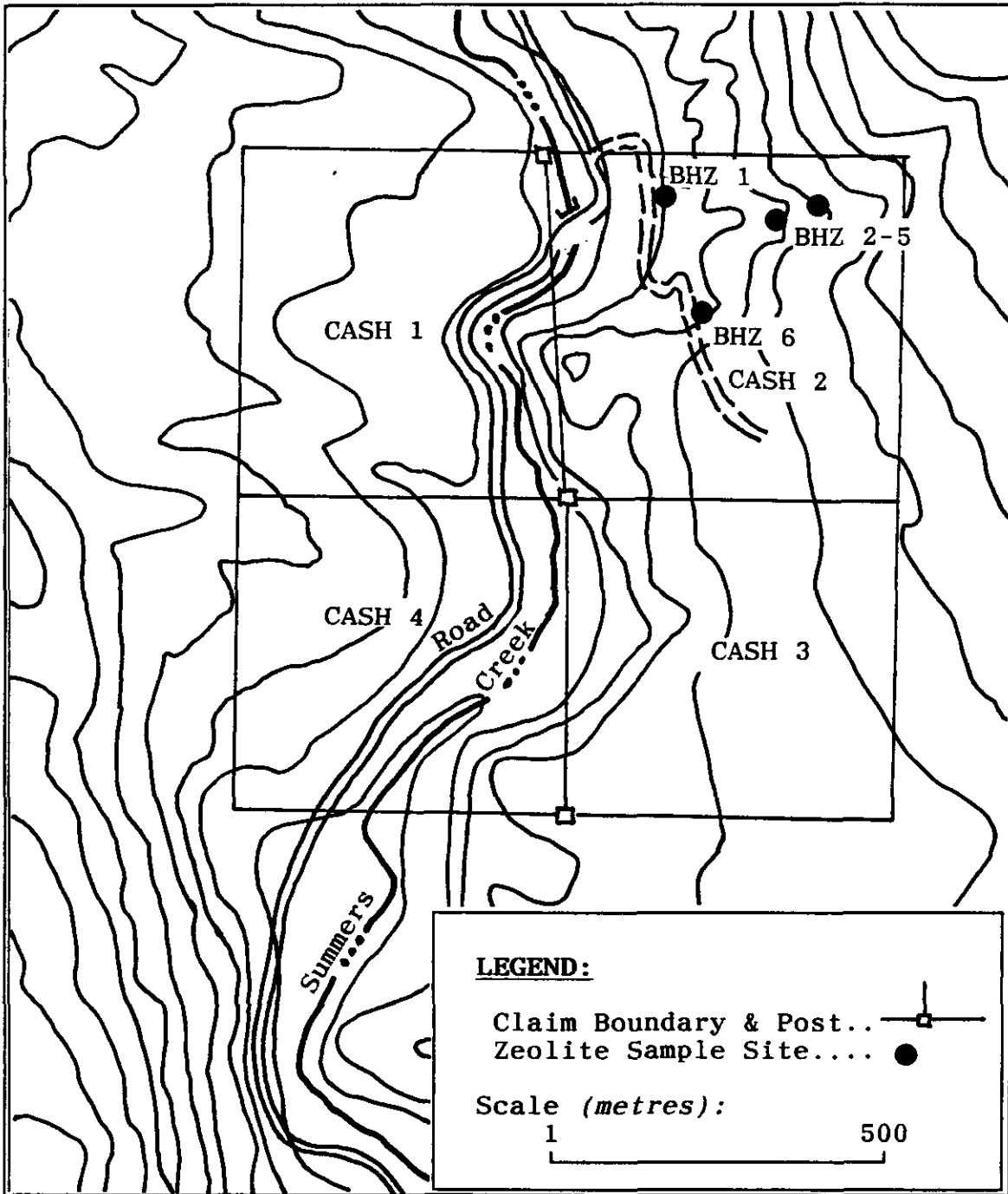


Figure 2: Cash Claims: Property Map. Part of NTS 92H/9 & 10

DISCUSSION AND CONCLUSIONS

The samples were all observed to contain a significant volume of impurities including quartz sand grains and carbonaceous fragments. The CEC results are consistent with this observation. The zeolitized section, however, is very thick and could be expected to contain cleaner units within it which might be found by conventional prospecting.

Prospecting concentrated in the Summers Creek Sandstone terrain east of Summers Creek - particularly in the areas incised by the creek and its tributaries - is considered to be the most practical next step. The program would be aided considerably through the use of coloured air photographs and GPS instrumentation as it may be important to establish the stratigraphic position of any zeolite units discovered or any new evidence of zeolitization in the host unit.

REFERENCES

- Read, Peter B., (1986): *Industrial Minerals in Some Tertiary Basins, Southern British Columbia*, B.C. Ministry of Energy Mines and Petroleum Resources, P. 1987-1.
- Read, Peter B., (1987): *Tertiary Stratigraphy and Industrial Minerals, Princeton and Tulameen Basins, Southern British Columbia*, B.C. Ministry of Energy Mines and Petroleum Resources, O.F. 1987-19.
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APPENDIX I
CERTIFICATE OF ANALYSIS

1-800-888-1433
Fax:
(604)534-8888



**NORWEST
LABS**

203-20771 Langley Bypass
Langley, B.C. V3A 5E8

NO (Lang.) : 14406
NO (Other) :
PO # :
Date Rec'd. : 08/04/95
Date Comp. : 08/15/95

Client

Received From

Name :	Industrial Mineral Mctg.	Name :	
Address :	885 Cornell Ave., Coquitlam, B.C. V3J 2Z4	Address :	
Phone :	(604) 939-0434	Phone :	
Fax :		Fax :	
Attn. :		Attn. :	
Project :			

Results of Soil Analysis

Lab #	Sample ID	Cation Exchange Capacity (meq/100g)
14406-1	J1	51.5
14406-2	Z1	53.1
14406-3	BHZ-2	39.4
14406-4	BHZ-3	40.0
14406-5	BHZ-4	33.1
14406-6	BHZ-5	21.0
14406-7	BHZ-6	26.5

* Analysis performed @ Norwest Labs - Edmonton, Alberta

Approved: _____


Randy Neumann
Randy Neumann, B.Sc.
Laboratory Manager

APPENDIX II

CERTIFICATE AND STATEMENT OF QUALIFICATIONS

I, Timothy L. Sadlier-Brown, residing at 2004 Cliffwood Lane, North Vancouver, B.C., hereby certify that:

- 1) I am a consulting exploration geologist and partner in the firm of Nevin Sadlier-Brown Goodbrand Ltd., Consulting Geologists, of Suite 300, 171 Water St., Vancouver, B.C.
- 2) I am a member, in good standing, of the Association of Professional Engineers and Geoscientists of British Columbia.
- 3) I am a Fellow of the Geological Association of Canada.
- 4) I was educated at Carleton University, Ottawa, Ont. Faculty of Geological Sciences, B.Sc. requirement in Geology; 1964.
- 5) I have been employed as an exploration geologist in positions of responsibility since 1965 and I have been a principal in the firm of Nevin Sadlier-Brown Goodbrand since 1972.
- 6) This report is based upon data gathered and samples taken by me during the course of a field examination of the Cash claim group carried out on July 26th 1995 and from a review of previous reports on the project area.
- 7) I hold no interest, direct or indirect, in the property described herein.



T.L. Sadlier-Brown, P.Geo., F.G.A.C.

Vancouver, B.C.



December 8th 1995

APPENDIX III

SCHEDULE OF EXPLORATION COSTS

Fees and Wages		
T. Sadlier-Brown, P.Geo.		
1 day @ \$ 400.00 per diem		400.00
Meals and Accommodation		
T.Sadlier-Brown & N.Gangnes		
Meals	40.00	
Accommodation	<u>30.00</u>	
Subtotal	70.00	70.00
Transportation		
FWD Vehicle; 675km @ \$0.35/km		236.25
Analytical Costs		
7 CEC Determinations		<u>166.92</u>
TOTAL:		<u>873.17</u>