

87-582-16245
8/88

ASSESSMENT REPORT
(1987 Exploration Program)

Based on Costs of
A Geological Field Survey

OWNER/OPERATOR
BORDER RESOURCES LTD.
4547 West 5th Ave.,
Vancouver, B.C.
V6R 1S6

PROPERTY LOCATION
New Westminster M.D.
N.T.S. ~~8210~~ 92H/6W, 92H/6E

NORTH GROUP
49°29'00" N. Lat. 92H/6W
121°16'00" W. Long.
15'24"
(17 claims)

G 1-2, GWH 2, N 22-7, 28FR, 29FR, TAX 51-6

SOUTH GROUP
49°26'00" N. Lat. 92H/6E
121°14'00" W. Long.
13'36"
(9 claims)

EVE 1-2, TOY 3-9

AUTHOR: P. Hall, BA, BEd.
GEOLOGIST: G.W. Hornby, P.Eng

**GEOLOGICAL BRANCH
ASSESSMENT REPORT**

DATE: 20 August 1988

16,245

FILMED

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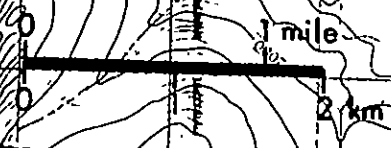
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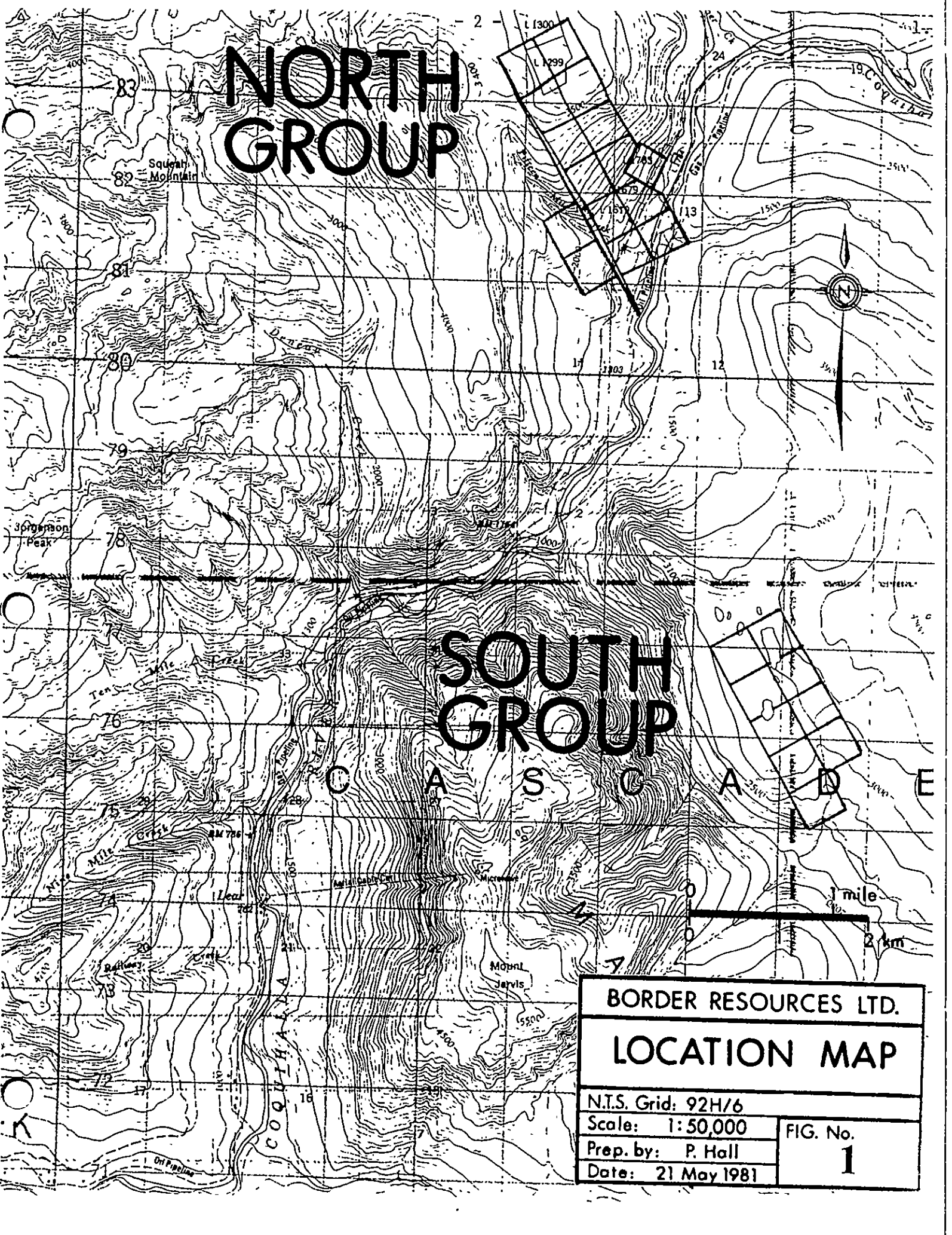
NORTH GROUP

SOUTH GROUP

C A S C A D E



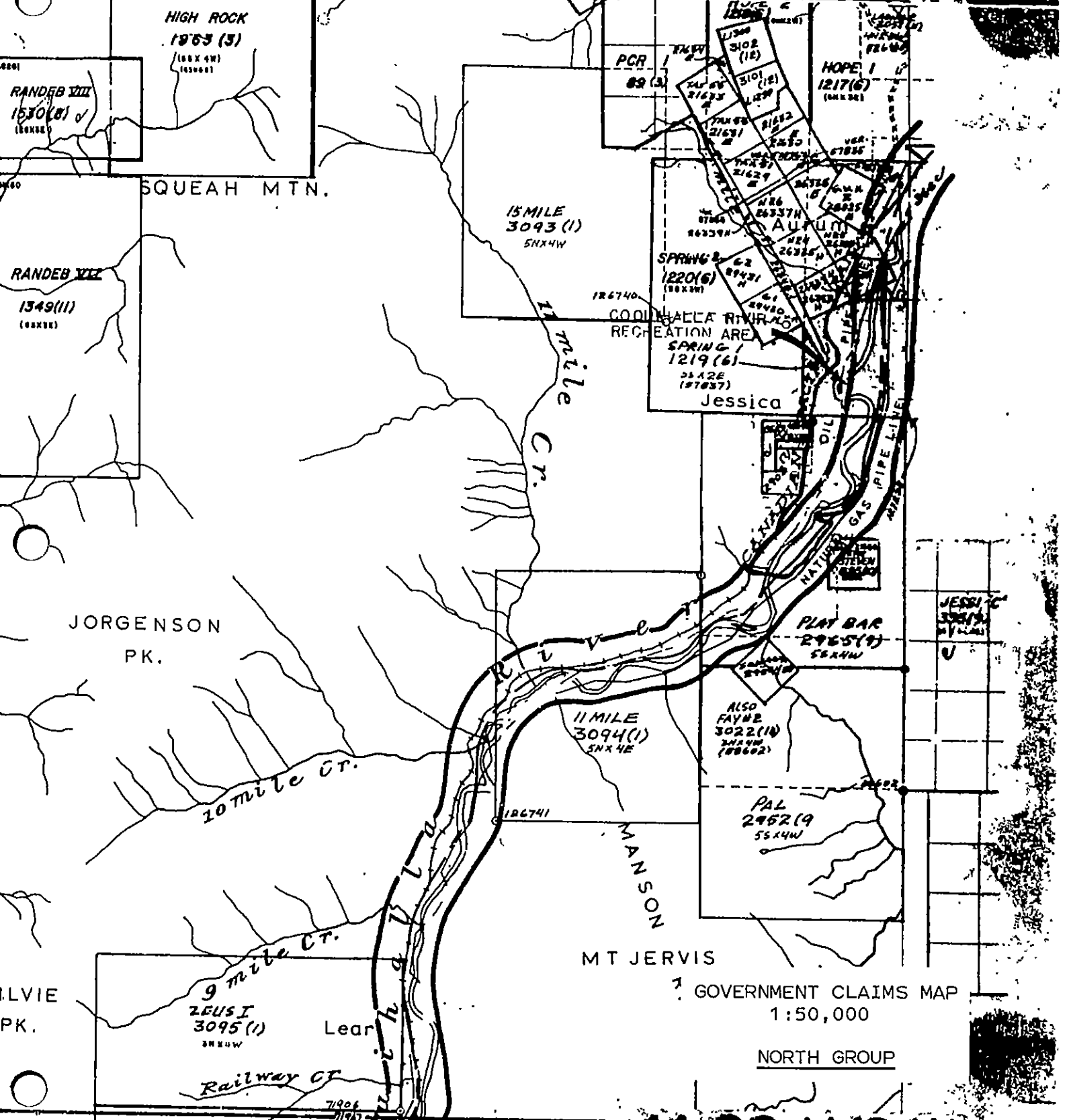
BORDER RESOURCES LTD.	
LOCATION MAP	
N.T.S. Grid: 92H/6	
Scale: 1:50,000	FIG. No. 1
Prep. by: P. Hall	
Date: 21 May 1981	



MAP 92H/11W

121°15'

49°30'



GOVERNMENT CLAIMS MAP
 1:50,000
 NORTH GROUP

M 92 H/6 W

(PROPOSED)
 COQUIHALLA HIGHWAY
 MINERAL RESERVE
 O/C 1862,84-10-18
 SUBJECT TO CONDITIONS

ZEUS II
 3096 (1)
 33X4W

PEERS I
 1528 (6)
 (6X20E)

(FOR PLACER SEE P. 92H/6E)

WHITE GOLD #2
2940 (9)
65X4E

- 4 -

DEW 1
1345(11)
(48X6W)

DEW 2
1346(11)
(48X6E) ✓

COQUINALLA 2
2987(10)
65X5W

MSI-203
MINERAL RESERVE
D/C-92
15, JAN 76
NO STAKING

187184

PLAT #1
2951 (9)
65X4E

DEW 3
1347(11)
(48X6W)

DEW 4
1348(10)
(48X6E) ✓

187185

FAY #1
3021(11)
34X4E
(68601)

187186

HOPE I
2953(9)
65X4E

TOY 1
21000
48X3E

TOY 2
21000
48X3E

TOY 3
21000
48X3E

TOY 4
21000
48X3E

TOY 5
21000
48X3E

TOY 6
21000
48X3E

TOY 7
21000
48X3E

TOY 8
21000
48X3E

TOY 9
21000
48X3E

TOY 10
21000
48X3E

J.P. II
2959(9)
48X3E

J.P. III
2960(9)
45X3E

HOPE
2173(7)
48X4E ✓

QUEEN BESS I
2653(6)
55X4W ✓

92HC

92H045

92H034

92H035

A+W

660(10)

J.P.
2967(9)
46X3W

J.P. I
2968(9)
45X3E

1520(10)

1520(10)
(ORANGE)
(10000)

Fools Pass

BIG RANGE 17
2439(4)
28X6W

783
783
GOVERNMENT CLAIMS MAP
1:50,000

MA I
2632(5)
65X3E ✓

MA II
2633(5)
65X3E ✓

BIG RANGE 16
2438(4)
55X4W

SOUTH GROUP
BIG RANGE 15
2437(4)
55X4W

RANGE
36(4)
48X4E

TO WEST SEE MAP 92H/6W

92H/6E

4

3

INTRODUCTION:

The two claims blocks of Border's Coquihalla property cover the largest areas of major outcropping of the Coquihalla Serpentine Belt. The serpentine shows up extensively in rock bluffs and along creek walls where stream action has cut channels through the vegetative overburden and the dunite cap rock.

Border Resources Ltd. has worked on this property since 1969 when the claims were originally staked. Over the years the original 153 claims have been reduced in number down to the present twenty-six key claims. The "North Group" (17 claims) is located on the North side of the Coquihalla River at Fifteen Mile Creek, while the "South Group" lies primarily on a bench above the west side of Sowaqua Creek some 5 km South of its junction with the Coquihalla River.

The presence of masses of small microscopic needles of nickel throughout the serpentine rock is the basis of Border's valuation of the property. The Company has expended many thousands of dollars in metallurgical research devising an economic method to extract this metal.

Despite being classed as a strategic metal, nickel has not enjoyed a very attractive market price for many years. It is for this reason that Border's Coquihalla property has not been developed as rapidly as it might otherwise have been.

Of some ancillary note is the presence of quartz sulphide veins along the contacts at the edge of the serpentine belt. The old Emancipation Gold Mine, for example, is situated right on the East edge of the belt at the East boundary of the "North Group". Furthermore, the historical presence of both gold and PEG minerals in the stream sediments of Sowaqua Creek (See PML 549) as well as the known placer gold presence in Fifteen Mile Creek motivated the Company to undertake an extensive stream sampling program this past Spring.

This field work, conducted by BURTON CONSULTING INC., between April 29 and May 2 sought to take advantage of the heightened runoff levels in the small intermittent streams that would quickly dry up later in the Spring. Sampling was for concentrated heavy metals with stream sediments being obtained through use of a portable power-suction sluice. A number of impressive high-readings were obtained.

Unfortunately, due to the anniversary dates for the claims occurring too close

to when this field work was done, it was not possible to get the results together fast enough to file them for assessment credit.

However, as one outcome of that report, the Company made application on May 27th, 1987, to have certain lands withdrawn from the Coquihalla Placer Reserve in order that two new placer leases could be applied for.

A second outcome was that the Company carried out a follow-up field trip to map in and sample a reported swarm of quartz veins in the South Group of claims, and to obtain in-place samples from a glacio-fluvial bench that crosses through the North Group and was reported to contain visible placer gold.

As the glacio-fluvial material contained within the North Group bench presumably originated in Ladner Creek to the East of the property and where the Carolin Gold Mine is located, the prospect of a placer gold presence was considerably reinforced.



FIGURE No. 2: Geologist G.W. Hornby examines quartz samples at site of old adit on TOY 9 mineral claim.

FIELD TRIP:

The field trip was conducted between July 23rd and 26th, headed by geologist G.W. Hornby, P.Eng., with P. Hall as surveyor and field assistant.

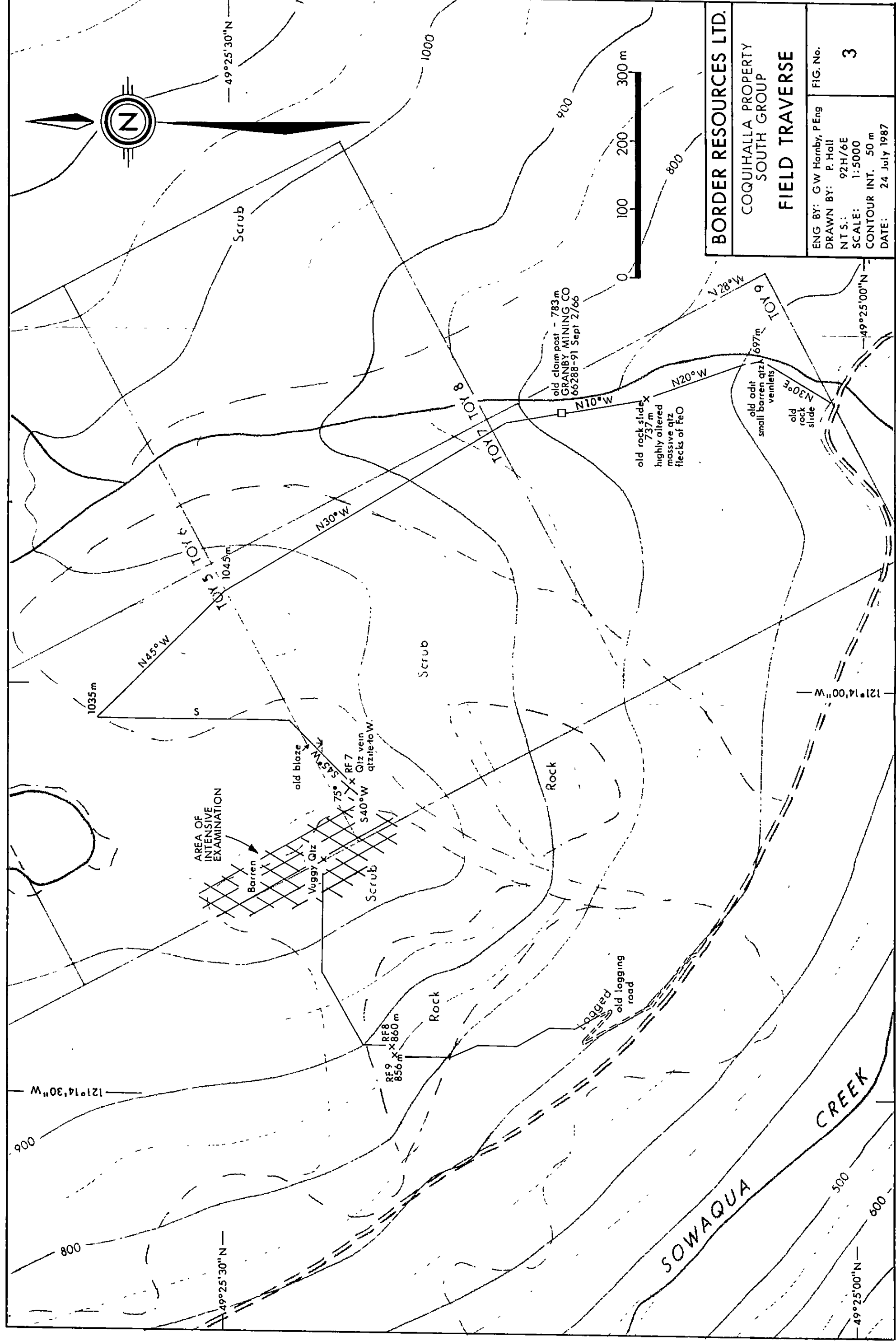
by

The route followed the earlier stream sampling party was retraced and the showings reported by that party were examined in detail and sampled where appropriate. Figures 3 and 4 show the traverse routes and sample locations.

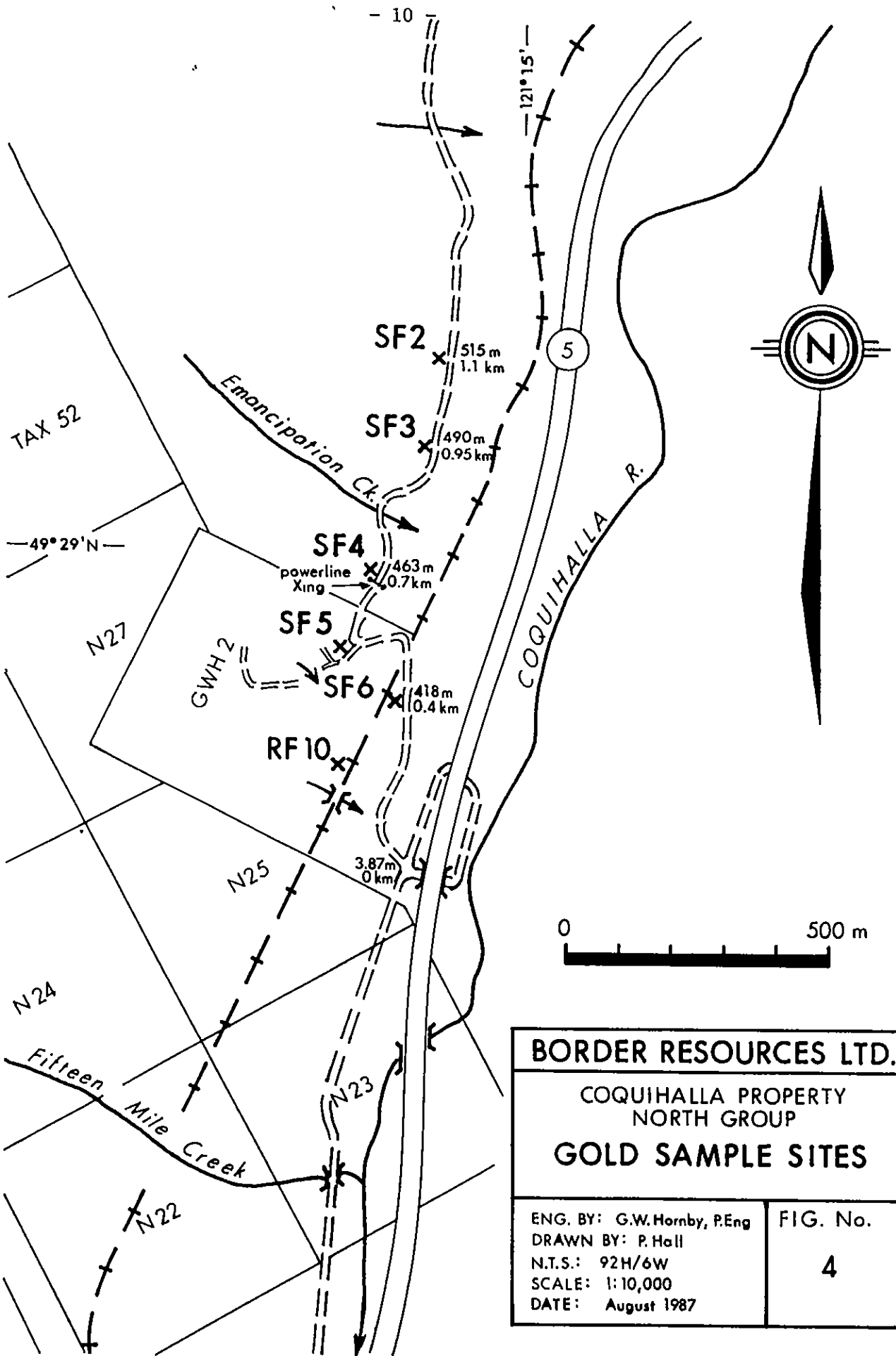
SOUTH GROUP: The quartz veins reported by the stream sampling crew were found to be far less extensive than expected. A 1.2 m wide quartz vein discovered in the far west corner of TOY #7 mineral claim (Sample #RF-7) proved to be barren. West of this point a number of widely dispersed small quartz veinlets (1-2 cm wide) were located. All appeared barren and none could be traced to a greater concentration of veins or to the anticipated veinlet swarm. Further down the descent slope, west of Border's claim block, numerous barren quartz veinlets (1-2 cm wide) were noted in the free rock of the talus slopes.

NORTH GROUP: Following up on the reported showings of colour in panned samples from the benches between Ladner and Fifteen Mile Creeks, fresh samples were collected from various points along the Carolin Mine Road (See Figure No. 4). These were dug out from the stratified depositional layers rather than being taken from the sloughed unconsolidated skree slopes (See Figures 5 and 6). A traverse was made along the old C.P.R. Kettle Valley roadbed south of the Carolin Mine Road crossing and the rock cuts on the uphill bank were carefully examined for quartz sulphides and gold mineralization. Rock sample #RF-10 was taken from the site of the old flagstone quarry. No finds of particular interest were located.

Assaying conducted by CHEMEX LABS LTD. (See p.12) showed no evidence of gold present in any of the samples taken, neither in rock nor sediment, neither in the North Group, nor in the South Group.



BORDER RESOURCES LTD.	
COQUIHALLA PROPERTY SOUTH GROUP	
FIELD TRAVERSE	
ENG BY: GW Hornby, PEng	FIG. No. 3
DRAWN BY: P. Hall	
NT S.: 92H/6E	
SCALE: 1:5000	
CONTOUR INT. 50 m	
DATE: 24 July 1987	



BORDER RESOURCES LTD.	
COQUIHALLA PROPERTY NORTH GROUP	
GOLD SAMPLE SITES	
ENG. BY: G.W. Hornby, P.Eng DRAWN BY: P. Hall N.T.S.: 92H/6W SCALE: 1:10,000 DATE: August 1987	FIG. No. 4



FIGURE No. 5: Glacio-fluvial gold sample site No. SF-3 on Carolin Mine Road, North Claims Group.



FIGURE No. 6: Gold sample site No. SF-4.



Chemex Labs Ltd.
 Analytical Chemists * Geochemists * Registered Assayers
 212 BROOKSBANK AVE., NORTH VANCOUVER,
 BRITISH COLUMBIA, CANADA V7J-2C1
 PHONE (604) 984-0221

BORDER RESOURCES LTD.
 711 - 543 GRANVILLE ST.
 VANCOUVER, B.C.
 V6C 1X8
 Project :
 Comments: ATTN: PETER HALL

*Page No. 1
 Tot. Pages: 1
 Date: 2-AUG-87
 Invoice # : 1-8719007
 P.O. # : NONE

CERTIFICATE OF ANALYSIS A8719007

SAMPLE DESCRIPTION	PREP CODE	AU oz/T																
7576 D	207	0.002																
7577 D	207	0.002																
7578 D	207	0.002																
7579 D	207	0.002																
7580 D	207	0.002																
7581 D	207	0.002																
7582 D	207	0.002																
7583 D	207	0.002																
7584 D	207	0.002																
7585 D	207	0.002																

P. Stewart

ALL ASSAY DETERMINATIONS ARE PERFORMED OR SUPERVISED BY BC CERTIFIED ASSAYERS CERTIFICATION :

RECOMMENDATIONS AND CONCLUSIONS

NORTH GROUP:

There seems insufficient evidence at this point to recommend further work based on placer gold in the glacio-fluvial benches on the West side of the Coquihalla Valley between Fifteen Mile and Ladner Creeks. The reported presence of gold in these deposits has probably arisen from "contamination" of these sites by such creeks as Emancipation Creek which flows down from higher levels where gold-bearing quartz-sulphides are known to occur.

Exploration along the outer contacts of the Serpentine Belt in the mineral claims at higher elevations might uncover some interesting quartz-sulphide veins, but the fact that the land surrounding the Company's claim block is held by other interests might serve to discourage such an endeavour.

SOUTH GROUP:

The findings on this field trip give no encouragement to the hypothesis that a large and meaningful quartz-vein swarm might be found on the western edge of the claim block. As with the North Group, some consideration might be paid to prospecting the boundary of the Serpentine Belt for quartz-sulphide mineralization, but the same problem exists here too with the surrounding lands being tied up by other parties.

GENERAL:

It would seem that the valuation of this property should continue to be vested in the promise of the nickel in the serpentine.

BORDER RESOURCES LTD.

COQUIHALLA PROPERTY

CLAIMS SCHEDULE

Date: 9 June 1986

New Westminster Mining Div.
NTS 92H/6

NORTH GROUP: (17 claims; 49°29'00"N / 121°16'00"W)

<u>CLAIM NAME:</u>	<u>RECORD No:</u>	<u>ANNIVERSARY</u>	<u>EXPIRY YEAR</u>
TAX 51-56	21629-34	May 26	1990
N 22-27,28FR,29FR	26333-40	July 13	1990
GWH 2	28025	July 19	1991
G 1-2	29430-31	July 26	1991

SOUTH GROUP: (9 claims; 49°26'00"N / 121°14'00"W)

<u>CLAIM NAME:</u>	<u>RECORD No:</u>	<u>ANNIVERSARY</u>	<u>EXPIRY YEAR</u>
EV 1-2	21703-04	May 22	1991
TOY 3-9	21601-07	May 26	1991

Accumulated credits in P.A.C. account = \$2,906.06

P. Hall

STATEMENT OF COSTS

FIELDWORK:

Geologist: G.W. Hornby, P.Eng. 4 days @ \$450.00/day	\$1800.00
Field Assistant: P. Hall, BA 4 days @ \$250.00/day	1000.00
Transportation: 4X4 truck 4 days @ \$50.00/day	200.00
520 km @ 25½¢/km	132.60
Meals and Accommodation: 8 mandays @ \$50.00/day	400.00
Field Equipment & Sundries:	
sample bags/ plastic film	\$60.79
airphotos	16.45
topo map 92H/6	4.24
claims maps 92H/6 E&W	4.00
	<u>\$85.48</u>
	85.48
	<u>\$3618.08</u>

REPORT PREPARATION:

4 days @ \$250.00/day	\$1000.00
Reprographics invoices:	
Vancal (mylar base)	\$23.92
Vancal (diaz prints)	6.00
Western Rep. (Xerox)	15.65
Customcolor (photos)	12.38
	<u>\$57.95</u>
	57.95
Stationery:	
Willsons (report binders)	8.01
	<u>\$1065.96</u>

ASSAYING:

Chemex Labs. Ltd.	\$132.00
	<u>\$132.00</u>

\$4816.04

THE COQUIHALLA NICKEL PROPERTY

List of Publications and Reports Available

1. G.S.C. Memoir #139 - Coquihalla Area, B.C.
by C.E. Cairnes - Field Seasons 1920-21.
2. G.S.C. Summary Report, 1929, Part A.
The Serpentine Belt of Coquihalla Region,
Yale District, B.C. by C.E. Cairnes.
Field Season 1929 - Pages 144A-198.
3. B.C. Research Council Progress Report No.2
'Magnetic Fraction of three sieve fractions
of nickel-bearing serpentine' - June 16, 1969.
4. B.C. Research Council Progress Report No.3
'Mineralogical Examination and Electron Probe
X-ray Microanalyses of Nickel-Bearing Serpentine'.
August 1969.
5. B.C. Research Council Progress Report No.4
'Flotation of Nickel-Iron Sulphides from
Serpentine Rock.' - August 1969
6. B.C. Research Council Progress Report No.5
'Gravity Separation of Nickel-Bearing Minerals
from Serpentine Rock' - Sept. 1969.
7. Nickel Distribution in Coquihalla Ultramafic
Belt by J.A. Chamberlain and D.D. Campbell of
Dolmage, Campbell & Associates, Vancouver, B.C.
- August 30, 1969.
8. Progress Report No.1 - Nickel Distribution in
the Coquihalla Ultramafic Complex by J.A.
Chamberlain - Dec. 27, 1970.
9. Report on Airborne Geophysical Surveys, Coquihalla
Area, Hope, B.C. - Menzies-Hornby Project - by
Richard O. Crosby, B.Sc., P.Eng. and John P.
Steele, B.Sc., April 26, 1971.

10. Geological Report - Coquihalla Property, B.C.
- Menzies - Hornby Project, May 2, 1971.
11. Britton Research Limited. Concentration Tests
on Samples of Nickel-Bearing Material submitted
by M.Menzies (Hornby Project). Progress Report
No. 1. May 7, 1971.
12. J.A. Chamberlain Consultants, Progress Report
No. 2, Nickel Distribution in the Coquihalla
Ultramafic Complex, August 28, 1971.
13. Canadian Patent - Process for Recovering Nickel
from Very Low Grade Primary Nickel Ores -
issued Jan. 11, 1972.
14. Underhill & Underhill, Survey and Examination
of Mineral Claims in the Coquihalla Pass, Feb.
3, 1972.
15. J.A. Chamberlain, Geochemical Report, Jessica
Property, Coquihalla Area, B.C., work completed
June 15, 1971 to April 30, 1972, dated May 3, 1972.
16. J.A. Chamberlain, Notes on Geology and Claim
Boundaries in Vicinity of Tangent Creek, Jessica
Property, B.C. - July 6, 1972.
17. J.A. Chamberlain, Interim Report, 1972 Geochemical
Program, Coquihalla Property, dated Sept. 2, 1972.
18. Dolmage, Campbell & Associates, Report on the
Coquihalla Nickel Properties, Hope, B.C., dated
Dec. 10, 1973.
19. Mineralogy of a Composite Sample, Hornby-Menzies
Ultramafic Complex by Dr. A.J. Sinclair, P. Eng.,
July 12, 1976.

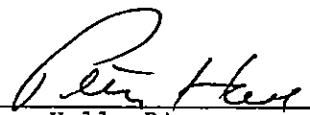
STATEMENT OF QUALIFICATIONS

I am a graduate of the University of British Columbia in Resource Geography.

I have worked in all phases of mineral exploration and as a Mineral Lands Manager with B.C. mining companies since 1969.

I participated in the performance of the fieldwork about which this report is based and can attest that the costs listed herein are both reasonable and correct.

Vancouver, B.C.
20 August 1987



Peter Hall, BA

STATEMENT OF QUALIFICATIONS

I, Geoffrey W. Hornby, of Vancouver, British Columbia, do hereby state as follows:

1. I am a consulting geological engineer.
2. I am a graduate of the University of British Columbia:
BSc in Geology, 1953.
3. I am a registered professional engineer of the Province of British Columbia.
4. I have, on behalf of Border Resources Ltd., supervised and directed the work done as described and contained within this report, and I am familiar with the contents of it.
5. I hereby certify that the costs charged pertaining to the work of this report and amounting to the sum of \$4816.04 is reasonable and correct.

Dated this 20 day of August, 1987, at Vancouver, British Columbia

Signed: _____

G.W. Hornby, P.Eng.