LOG NO: /2-11	RD.
ACTION:	
FILE NO:	

RECONNAISSANCE GEOLOGICAL AND SOIL GEOCHEMICAL SURVEY

OF THE SOUTHERN PORTION OF

THE HARVIC GROUP OF MINERAL CLAIMS (situated on Qualark Creek)

NEW WESTMINSTER MINING DIVISION

LOCATION: 49°32'north latitude - 121°21' west longitude

NTS 92 H 11W

GEOLOGICAL BRANCH

Owner: Mr. V Walters

Author: Mr. H.D. Nicholson

December 5, 1990

1

RECONNAISSANCE GEOLOGICAL AND SOIL GEOCHEMICAL SURVEY

ON THE SOUTH PORTION OF

THE HARVIC GROUP OF MINERAL CLAIMS (NWMD)

TABLE OF CONTENTS

	ITEM	PAGE
1.	INTRODUCTION	3
2.	PROPERTY, LOCATION AND ACCESS	3
	FIGURE 1 - LOCATION MAP	4
	FIGURE 2 - CLAIM MAP	5
з.	HISTORY	6
4.	GEOLOGY	6
	FIGURE 3 - REGIONAL GEOLOGY	7
	FIGURE 3a - LEGEND	8
5.	SOIL GEOCHEMICAL SAMPLING	9
6.	SUMMARY	9
	FIGURE 4 - GEOCHEMICAL SURVEY MAP	10
	BIBLIOGRAPHY	11
	STATEMENT OF EXPENSES	12
	STATEMENT OF QUALIFICATIONS	13

RECONNAISSANCE GEOLOGICAL AND SOIL GEOCHEMICAL SURVEY

ON THE SOUTH PORTION OF

THE HARVIC GROUP OF MINERAL CLAIMS (NWMD)

1. Introduction:

A reconnaissance geological and soil geochemical survey was done on the southern portion of the Harvic Group of mineral claims to extend information on the area from the Rachel (old "Hillsbar" and "Gold" claim) which was the subject of previous Assessment Reports in 1979 (1) and 1983 (2). The work was done by the author and the owner on three days between August 17 and September 8, 1990.

2. Property, Location and Access:

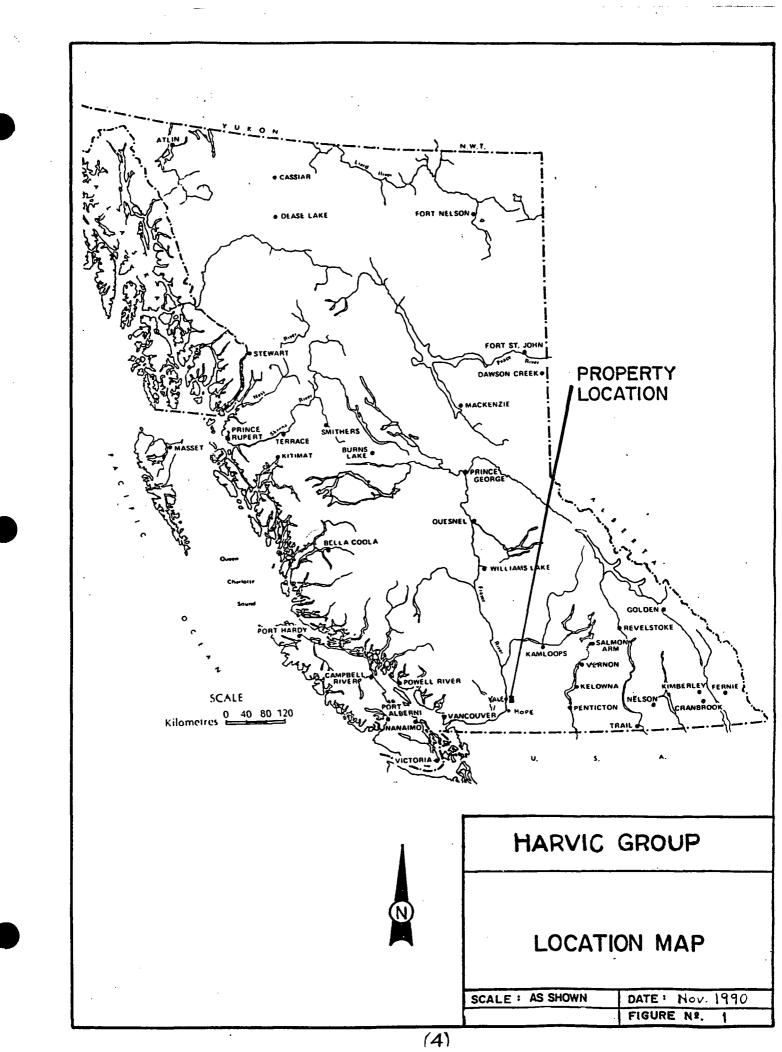
The Harvic group of claims is owned by Mr. V Walters of Sechelt and consists of the following claims:

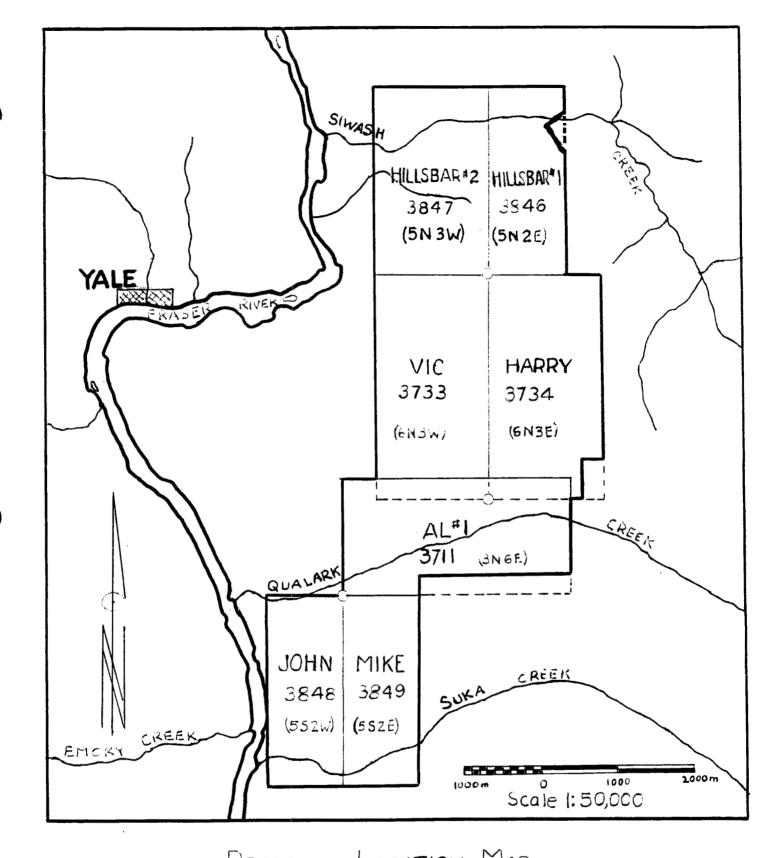
NAME	Registration	Units	Anniversary Date
AL #1	3711	18	Aug. 17
VIC	3733	18	Sept.18
HARRY	3734	18	Sept.18
Hillsbar #	1 3846	10	Jan. 18
Hillsbar #	2 3847	15	Jan. 18
John	3848	10	Jan. 18
Mike	3849	10	Jan. 18

Total units in group 99

On Sept. 14,1990 the Rachel Claim (#163) was "included" in the AL #1(Inclusion of Record- Misc.Doc.Sept.14,1990 New Westminster). The Group was recorded on the same date.

The location of the mineral claims is shown in figures #1 and #2 on pages 4 and 5. The center of the group is approximately five kilometers east of the town of Yale and 19 kilometers north of Hope. They are on the east side of the Fraser River in rugged mountainous terrain with access by four wheel drive vehicle up a poor and steep logging road that is washed out on the south side of Suka Creek at the south boundary of the





PROPERTY LOCATION MAP NTS 92H II HARVIC GROUP

NEW WESTMINSTER MINING DISTRICT

Nov. 28, 1990

Fig. 2

claims. Access is then on foot along the old logging road which is overgrown with small alder. The bridge over the Qualark Creek is completely washed out but the majority of the road above the bridge could be renovated readily.

The claims are located just east of the Fraser River in steep mountainous terrain. Both the Qualark and the Suka Creek pass through steep canyons entering the Fraser Canyon making access from the Fraser River very difficult. The upper valley of Qualark Creek widens and is largely covered with overburden. Most of the valley has been logged off. Elevations of the claims extend from 500 feet above sea level to 4900 feet.

3. History:

In 1858, Yale was the jumping off point for miner heading to the goldrush in the Caribou. Placer mining on the Fraser River lead to activity in the local creeks, particularly Siwash and Qualark (which was earlier known as Hillsbar Creek after the Fraser Bar which produce large amounts of gold). At the start of the 20th Century, attention was being directed to finding the motherlode of the placer gold.

Gold was found in Qualark Creek and work was started on the "Gold" claim in 1921 and continued actively throughout the decade as reported in the Reports of the B.C. Minister of Mines (3). The Claim was also reported on in 1923 by Dr. C.E.Cairnes of the Geological Survey of Canada (4).

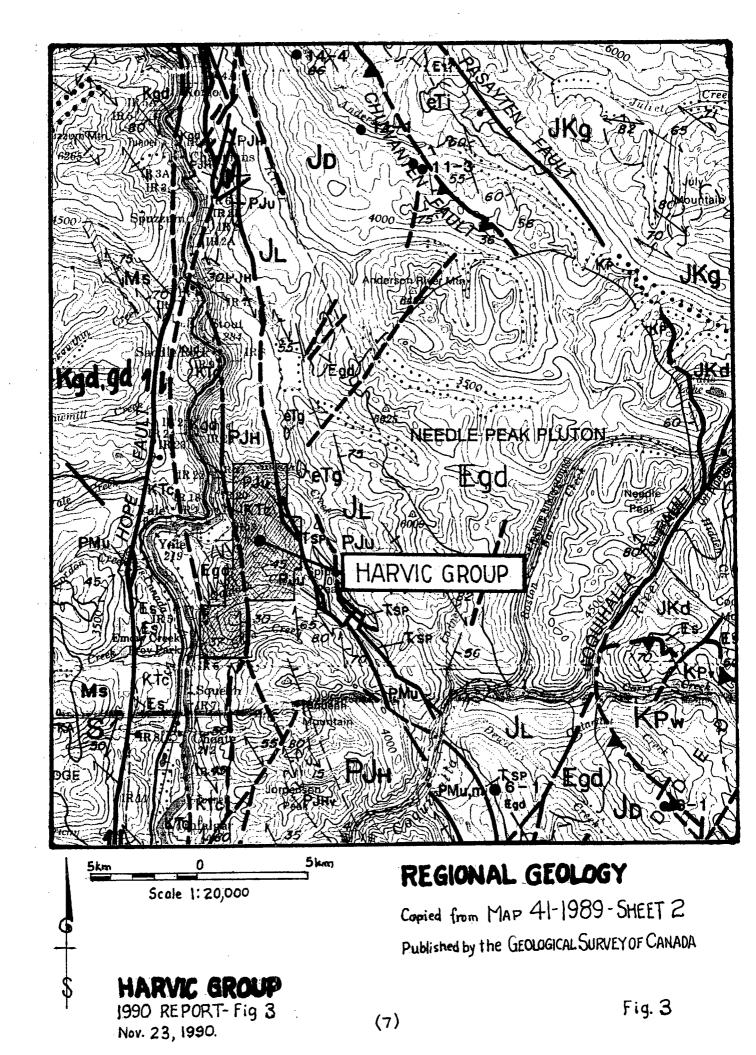
Since 1975, some exploration has been undertaken in the area of the original claimsite (known as the Hillsbar Claim and then the Rachel Claim) for which Assessment Reports have been filed with the B.C. Dept. of Energy, Mines and Petroleum Resources (1&2)

4.Geology:

The geology of the region was described by J.W.H. Monger of the Geological Survey of Canada (5) in his report accompanying the GSC Map 12-1969. The Custer Gneiss which makes up the rocks found on this survey are described on page 35 Of this report. This work together with the work of Dr. G.E. Ray on his study of the Coquihalla Gold Belt (6) cover the area and are summarized in the GSC Maps 41-1989.

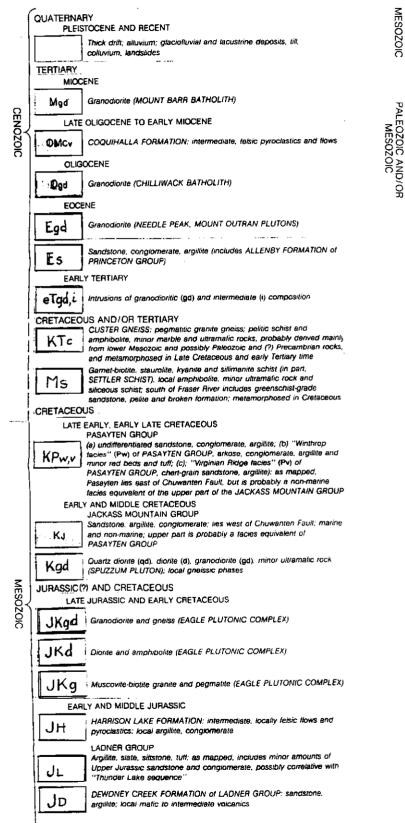
This area represents the northern end of the Cascade Mountains wedged against the Coast Mountains on the west side of the Fraser River. The Regional Geology is shown in figure 3 and 3a on page 6 and 7.

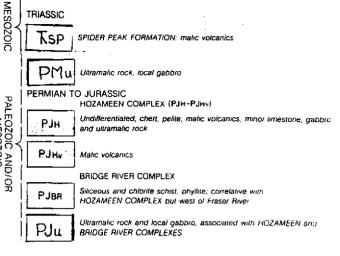
The work done this year includes the westerly portion of the Rachel Claim (AL#1) and south almost to Suka Creek along the logging road, a distance of over 7 kilometers.



LEGEND FOR REGIONAL GEOLOGICAL MAP

Formal names capitalized





Area of outcrop	
Geological boundary (delined, approximate, assumed)	_ ′
Bedding, tops known (inclined, vertical)	\times
Schustosity analistosity classage	7
Lineation, exis of minor told. mineral/clast elongation (horizontal, inclined)	1
Major fokt axis (syncline, anticline, overturned Iolö; arrow indicates plunge)	
Lineament (from airphoto)	•••
Fault (defined and approximate; assumed and extension beneath drift)	
Normal fault (bar indicated downthrown side)	
Strike-slip fault (arrow indicates relative movement)	<u> </u>
Thrust fault and "layer parallel" fault; teeth on upper plate	

Geological mapping by J.W.H. Monger, Geological Survey of Canada (1984-86). In addition this compilation includes material from numerous sources (published reports by G.S.C. and B.C. Geological Survey, theses mainly at the University of British Columbia, and recent mapping by G.E. Ray, B.C. Geological Survey, in the Coquihalia and Hedley areas

Geological cartography by the Geological Survey of Canada

1990 REPORT ON THE HARVIC GROUP Nov 27, 1990

FIG. 3a

The rocks found throughout this project were, for the most part, medium grained biotite granite gneiss except in the easterly portion which is near the contact with the Hozameen slates, where there were many white felsite dykes. The host rock here was a dark hornblende schist. Neither the contact with the Hozameen slate nor any significant quartz veins were seen on the traverse.

4. Soil Geochemical Sampling:

Soil samples were taken from the top of the "B" horizon at 50 meter intervals along the roadways except in the canyon where the road was cut out of the cliff. The samples were taken from undisturbed areas. The organic layer varied from 3 to 20 cm.

The soil samples were prepared and analyzed for gold by Acme Analytical Laboratories Ltd. of 852 East Hastings St. in Vancouver, using the following method:

> A 10 gram sample was ignited at 800 deg. C, Sample digested with hot aqua regia, Element extracted by MIBK, Analyzed by graphite furnace atomic absorption furnace Results were shown in parts per billion(detection 1ppb)

The results are marked on the map (fig. 4 in the pocket on the back cover) showing the results in parts per billion of gold. The top 20% of the values are those of 5ppb or greater.

Three clusters of such values occur were found indicating possible local enrichment. The areas are labelled "A", "B" and "C" on figure 4 (page 9).

5: Summary:

The area surveyed lies west of the contact with the Hozameen formation in the Custer Gneiss formation. In the area surveyed, east of the bridge crossing Qualark Creek the gneiss and schist is intruded by numerous white felsite dykes indicating proximity of the contact. The rocks to the south and west were found to be uniform medium grained biotite granite gneiss.

The results of the soil sampling are not conclusive but show three areas of possible enrichment marked "A","B" and "C" on figure 4; however, no float or outcrops of the felsite (intrusive) which are believed to be associated with the quartz veins and gold, were found in areas "B" and "C".

BIBLIOGRAHY:

- Assessment Report #7643- "Brief Sampling and Magnetometer Test Program on Portions of the Rachel Claim - 1979," Cochrane Consultants.
- 2. Assessment Report #11,198- "A Geochemical Soil Sampling on the Hillsbar Creek (Seka Claims)" -1982, Bruce Sauer.
- 3. Reports of the Minister of Mines (B.C.) -1924 page A163 -"Gold Group" -1926 page A198- "Gold Group" -1927 page C209 "hillsbar".
- 4. Geological Survey of Canada-Summary Report 1923 -Part A, page B1A -"Hillsbar Gold Claims, Yale District, B.C." by C.E. Cairnes.
- 5. Geological Survey of Canada Paper 69-47 "Hope Map Area 92 H W1/2" - Dr. J.W.H.Monger.
- 6. B.C. Minister of Energy, Mines and Petroleum Resources Reports on "The Carolin Mine and Coquihalla Gold Belt Project" Papers 1982-1, 1983-1 and 1984-1 by Dr. G.E. Ray.

Statement of Expenses:

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The following is a summary of the costs for this program which was done between August 17 and September 8, 1990.

6 man-days @ \$150	\$70 0	
Car travel	530	
Meals and accommodation Maps, aerial photographs	238	
and supplies	102	
Soil sample preparation		
and analysis	418	
Report	251	
sub-total		\$2,439
Helicopter (actual \$1847)		
(allowable)		\$1,220
Total Cost qualifying		\$3,659

Statement of Qualifications:

The following ia a list of courses and experience which qualify me to undertake the work outlined in the report.

1. Graduate of the University of British Columbia BASc(Geological Engineering - 1936

2. Worked as student assistant with the Geological Survey of Canada Summers of 1945-48.

3. Completed the Mineral Exploration Course sponsored by the Malaspina College and run by the B.C.Dept. of Energy, Mines and Petroleum Resources in May 1985.

icholson Ø/ Nicholson

Henry Ø/ Nicholson Author



ACME ANALYTICAL LABORATORIES LTD. 852 E. HASTINGS ST. VANCOUVER B.C. V6A 1R6 PHONE(604)253-3158 FAX(604)253-1716 DATE RECEIVED: SEP 8 1990

ent 13/90

DATE REPORT MAILED:

GEOCHEMICAL ANALYSIS CERTIFICATE

Henry Nicholson PROJECT HARVIC FILE # 90-4263 Page 1 11461 - 236th St., Maple Ridge BC V2X 7E6

SAMPLE#	AU* ppb
1 P	5
2	3
3	10
4 P	2
5	16
6	4
7	6
8	9
9	8
10	4
11 12 13 14 19	4 3 2 6
20 21 22 23 24	5 6 4 4
25	3
26	1
27	2
28	4
29	9
30	1
31	3
32	4
33	1
34	5
35 36 37 38 39	1 2 4 21
40	5
STANDARD AU-S	51

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SAMPLE#	AU* ppb
41	6
42	2
43ρ	1
44	1
45	1
101	2
102	1
103	1
104	1
105	6
106	3
106A P	1
107	2
108	1
109	2
110	1
111 P	2
112 P	4
113	1
114	3
115P	4
116P	7
117	8
118P	1
119	4
120P	7
121P	7
122	6
123P	3
124	1
125	1
126	4
128	3
129	1
130P	4
131	3
STANDARD AU-S	5 49

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<u>Henry Nicholson</u>	PROJECT HARVIC	FILE # 90-4263	Page 3

SAMPLE#	AU* ppb
132	3
140	1
141	3 1 2 1 1
142	1
143	1
144	1
145P	5
146	1 5 4 1
147	1
148	1
149	1
150	1
151	1 1 1 1
152	1
153	1
154	1
155	1
156	
157	1
159P	1 1
160	2 6 1 2 50
161	6
162P	1
163	2
STANDARD AU-S	50

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