

87-315-16101

GEOLOGICAL, AND SAMPLING REPORT  
ON THE  
PATERSON LAKE 1 - 6 MINERAL CLAIMS

FILMED

RECORD NUMBERS

2000, 1993, 2207, 2208, 2216, 2209

ALBERNI MINING DIVISION

NTS 92F/6E,7W

LATITUDE  $49^{\circ}20'N$ ; LONGITUDE  $125^{\circ}00'W$  *00-3'*  
*21.2'*

by

W.A. HOWELL, J.C. STEPHEN

OWNERS: D. PATERSON, *et al H.M. Markle, S. Trezierra*

OPERATOR: DELLA TERRA RESOURCES LTD.

WORK DONE BY: J.C. STEPHEN EXPLORATIONS LTD.

DATES: APRIL 1 - 25, 1987

**GEOLOGICAL BRANCH  
ASSESSMENT REPORT**

**16, 101**

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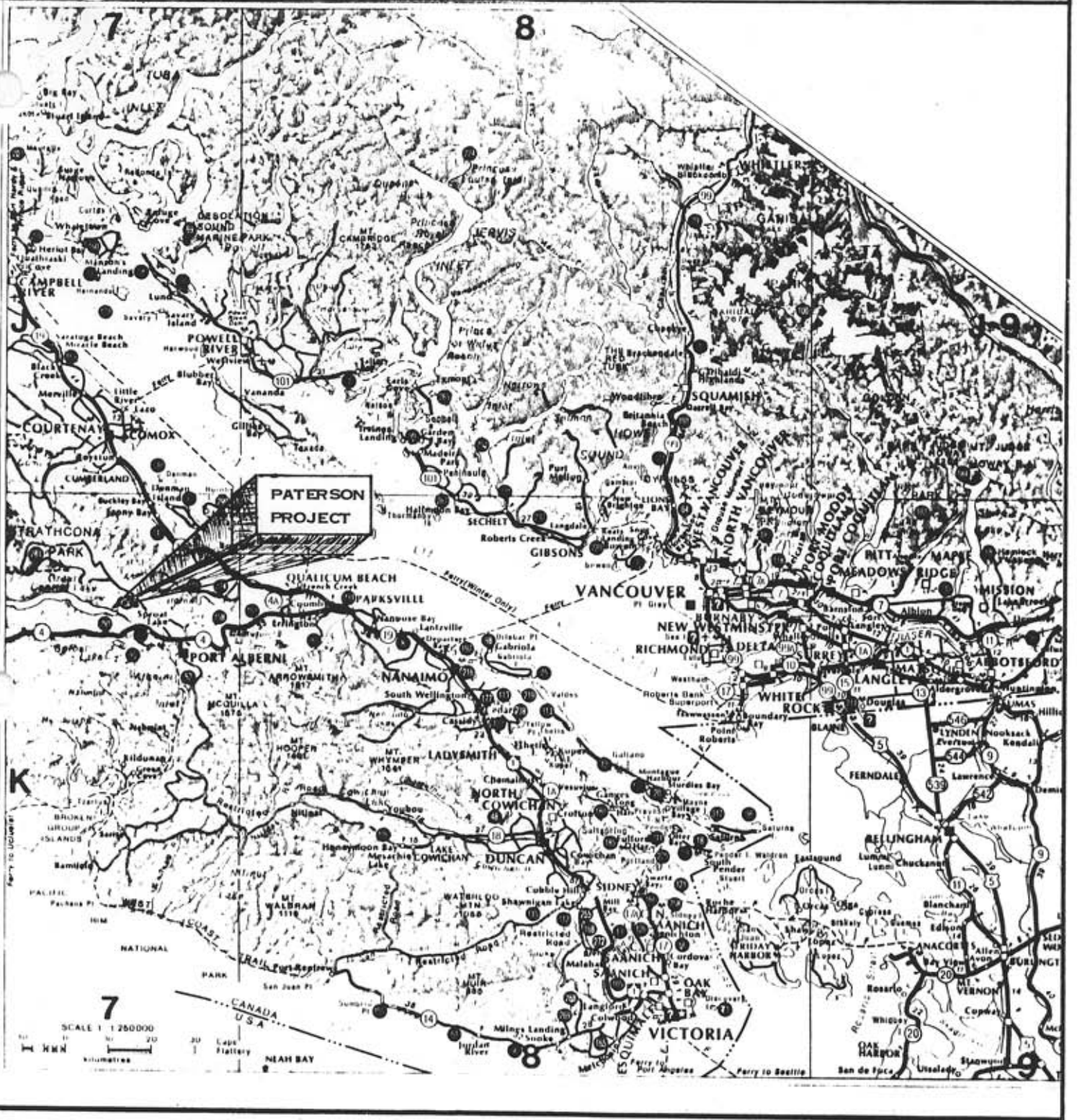
PRELIMINARY GEOLOGICAL REPORT  
ON THE PATERSON LAKE 1 - 6 MINERAL CLAIMS

INTRODUCTION

The Paterson Lake 1 - 6 claims were examined in February 1987 at which time three mineral occurrences were visited and sampled. Favourable assay results were obtained and an option on the claims was subsequently negotiated by Della Terra Resources Inc.

The vendors of the claims, as part of the agreement, filed assessment work for claims coming due on March 9 and 19, 1987 and Della Terra undertook to complete additional work adequate to hold the claim group through the April 27 anniversary date. The work presently being filed was conducted between April 1 and 17 to provide the necessary assessment work credits. This work is, however, only a portion of the planned line cutting, sampling, geological and geophysical program to be completed by Della Terra. Additional work, covered by a separate, more comprehensive report, will be recorded on completion of that program.

Initial examination of the property had revealed significant copper mineralization in three different geological settings within Karmutsen volcanic rocks. Interesting values were obtained for gold and silver. Early prospecting work was evidenced by several areas blasted into bedrock and by two short adits which are presently caved and appear as rather large pits. Data from a report by D.V. Lefebure for Corporation Falconbridge Copper dated February 5, 1986 is essentially the only printed data on the property known to this writer.



J C STEPHEN EXPLORATIONS LTD

DELLA TERRA RESOURCES LTD

PATERSON PROJECT

92F/6E, 7W

LOCATION MAP

FIGURE 1

LOCATION, ACCESS AND TOPOGRAPHY

The 72 unit Paterson Lake property is located north and east of the east end of Great Central Lake extending north from the lake itself for about 3500 metres.

Access from Nanaimo, on the northeast side of Vancouver Island, is by way of Highway 19 northwest to the junction with Highway 4 south of Parksville, west to Port Alberni and northwest to Great Central Lake. This is all on paved highway to near the south east boundary of the property.

Several logging roads give excellent access to various portions of the property courtesy of McMillan Bloedel.

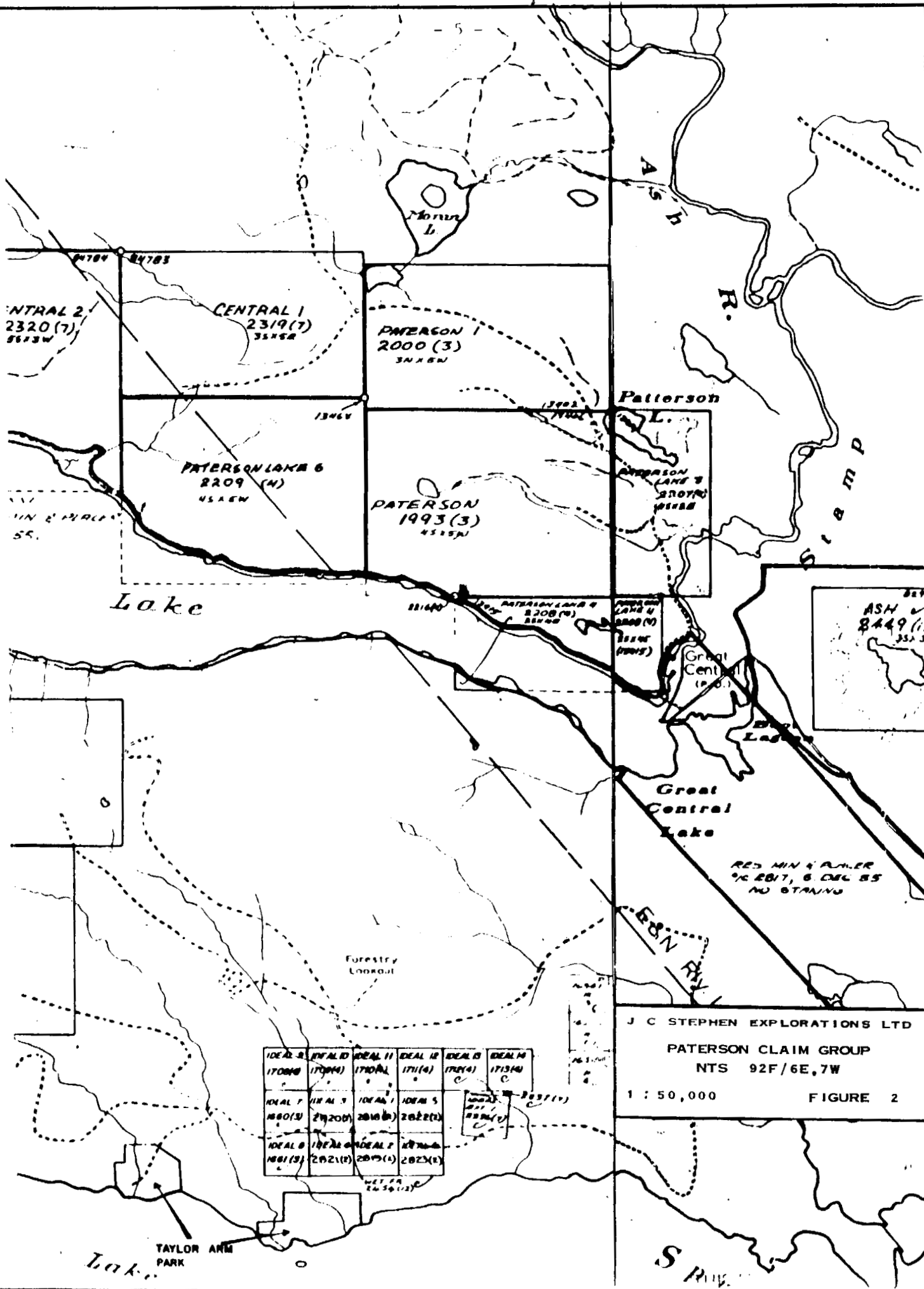
Elevations on the property range from 83 metres above sea level at Great Central Lake to about 480 metres in the western portion of the property. The slopes above the lake are relatively steep and abrupt rock bluffs occur in places on the property making direct access, in places, difficult. In general, however, the topography is moderate and old logging railway grades reached several portions of the property during logging operations 60 to 80 years ago. Much of this old logging area now supports substantial stands of new timber. More recent logging has taken place in portions of the property and these show as cleared areas on recent air photos.

REGISTER OF CLAIMS AND OWNERSHIP

The Paterson Lake claim group consists of the following claims: -

<u>NAME</u>	<u>RECORD NUMBER</u>	<u>NUMBER OF UNITS</u>	<u>RECORDING DATE</u>
PATERSON LAKE #1	2000	15	March 19, 1984
PATERSON LAKE #2	1993	20	March 9, 1984
PATERSON LAKE #3	2207	8	April 27, 1984
PATERSON LAKE #4	2208	8	April 27, 1984
PATERSON LAKE #5	2216	1	April 27, 1984
PATERSON LAKE #6	2209	20	April 27, 1984

The claims were recorded in the name of Herbert McMaster as of the dates shown and one third interests were transferred by various bills of sale to each of Douglas William Paterson and Sylvester E. Tresierra. Della Terra Resources Inc. entered into an option agreement to earn up to 100% interest in the claims in March 1987. Relative location of the claims is shown on Figure 2.



CENTRAL 2  
2320 (7)  
3573W

CENTRAL 1  
2319 (7)  
3576E

PATERSON 1  
2000 (3)  
3N X 6W

PATERSON LAKE 6  
2209 (4)  
45A 6W

PATERSON  
1993 (3)  
4515W

Patterson

PATERSON LAKE 7  
2207 (4)  
4515W

PATERSON LAKE 8  
2208 (4)  
4515W

PATERSON LAKE 9  
2209 (4)  
4515W

PATERSON LAKE 10  
2210 (4)  
4515W

PATERSON LAKE 11  
2211 (4)  
4515W

PATERSON LAKE 12  
2212 (4)  
4515W

PATERSON LAKE 13  
2213 (4)  
4515W

PATERSON LAKE 14  
2214 (4)  
4515W

PATERSON LAKE 15  
2215 (4)  
4515W

PATERSON LAKE 16  
2216 (4)  
4515W

PATERSON LAKE 17  
2217 (4)  
4515W

PATERSON LAKE 18  
2218 (4)  
4515W

PATERSON LAKE 19  
2219 (4)  
4515W

PATERSON LAKE 20  
2220 (4)  
4515W

PATERSON LAKE 21  
2221 (4)  
4515W

PATERSON LAKE 22  
2222 (4)  
4515W

ASH  
2449 (1)  
3573W

RED MIN & PAPER  
% 2017, 6 DEC 85  
NO STRAIN

J C STEPHEN EXPLORATIONS LTD  
PATERSON CLAIM GROUP  
NTS 92F/6E,7W

1 : 50,000      FIGURE 2

IDEAL 3 1708W	IDEAL 10 1709W	IDEAL 11 1710W	IDEAL 12 1711W	IDEAL 13 1712W	IDEAL 14 1713W
IDEAL 7 1801W	IDEAL 8 1802W	IDEAL 9 1803W	IDEAL 4 1714W	IDEAL 5 1715W	IDEAL 6 1716W
IDEAL 1 1804W	IDEAL 2 1805W	IDEAL 15 1806W	IDEAL 16 1807W	IDEAL 17 1808W	IDEAL 18 1809W

TAYLOR ARM  
PARK

### WORK PROGRAM

To assess the mineral potential of the Paterson Lake 1-6 claims Della Terra has initiated a program of line cutting, rock sampling geological mapping, magnetometer, VLF-EM and IP surveys. This work is presently underway and this report is intended to document the portion of this program completed to meet the April 27 anniversary date for assessment work purposes.

Line cutting was contracted to Ron Bilquist and associates and, to date, consisted of 3.8 Km of base line, 1.8 km of tie line and 28.2 km of picket line. Location of the grid is shown in Figure 3. Preliminary geological mapping was undertaken by W.A. Howell, geologist, during comprehensive sampling of mineral occurrences. Analyses for gold, silver, and copper was carried out by Chemex Labs Ltd. Location of outcrops and samples are shown on Map I in the pocket of this report.

Detailed geological mapping was commenced by Ellen Lambert, geologist, April 16 and geophysical surveys were commenced by Al Scott, geophysicist April 20. These surveys will be reported on in a later detailed report.





28100N -  
27100N -  
26100N -  
25100N -  
24100N -  
23100N -  
22100N -  
21100N -  
20100N -  
19100N -  
18100N -  
17100N -  
16050N -  
16000N -  
15000N -  
14100N -  
13100N -  
12100N -  
11150N -  
11000N -  
10100N -

PATERSON LAKE 1 LCP  
PATERSON LAKE 2  
PATERSON LAKE 3

MUD LAKE

PATTERSON LAKE

ROUND LAKE

BASE LINE

RIVER

GEOLOGICAL BRANCH  
ASSESSMENT REPORT

16,101

PATERSON PROJECT  
NORBERT MINING DIV.

26000E  
27000E  
28000E  
29000E  
30000E  
31000E  
32000E  
33000E  
34000E  
35000E  
36000E  
37000E  
38000E  
39000E  
40000E  
41000E  
42000E  
43000E  
44000E  
45000E  
46000E  
47000E  
48000E  
49000E  
50000E  
51000E  
52000E  
53000E  
54000E  
55000E

SCALE 1:10,000

PATERSON LAKE CLAIMS GRID MAP FIGURE 3

NOTE: - CHAINING WAS DONE FROM THE SOUTH TIE LINE  
AT 11+50N TO THE CLIFFS ON LINES 34E  
AND 35E

## GEOLOGY

The regional geology of the area is shown at 1:250,000 scale on Open File Maps (O.F.473) published by the GSC. As shown on these maps the claim group is largely underlain by Karmutsen volcanic rocks. These Triassic rocks are intruded in the northwest portion of the property by a grano-dioritic stock. Contacts between the stock and intruded Karmutsen volcanics may be largely fault controlled.

### ROCK TYPES

On the property the following rock units were noted during the rock sampling program.

Hornblende Porphyry Diorite Dyke - A dark green to black dyke occurs southeast of Round Lake. Exposures indicate a width up to 10 metres and a strike of approximately N45<sup>o</sup>W. The rock is medium grained and rather granular in appearance.

Hornblende Biotite Granodiorite - A stock like intrusive occurs in the northwest portion of the property extending north and west into the adjoining CENTRAL claims. An east to southeast trending dyke of similar composition occurs on the Ash River road in PATERSON LAKE #1.

### Karmutsen Volcanics

(a) Massive volcanics - In north central PATERSON LAKE 1 outcrops of massive dark green volcanics occur along the Ash River road. This unit trends east and southeast and is cut by the hornblende biotite granodiorite dyke. Some shearing and silicification were noted. Occasional chlorite and epidote filled amygdules occur.

- (b) Fragmental volcanics - south of the massive volcanics a zone of fragmental volcanics and breccia occur in east central PATERSON LAKE 1, and extends south to the vicinity of the linear structure trending easterly through Mud Lake. Locally the fragmental volcanic horizon contains tuffaceous beds.
- (c) Massive Volcanics - from the Mud Lake linear southerly the volcanics are primarily massive to near the Thunder Bay Road.
- (d) Pillowed volcanics - from north of Thunder Bay road to the south facing slopes above Great Central Lake the volcanics commonly exhibit pillow structures. This unit is cut by the hornblende porphyry diorite dyke. Some shearing was noted. Dips appear to be steep to vertical but insufficient data has yet been gathered to indicate flow top directions. Aggregations of quartz, epidote, chlorite and sulphides occur between pillows at certain locations.

## MINERALIZATION

The principal mineralized zone occurs east of Mud Lake where two caved adits explore copper mineralization in the north side of the Mud Lake linear. Chalcopyrite occurs over five feet or more in silicified volcanics and is succeeded to the south by over five feet of additional chalcopyrite mineralization in heavily chloritized shear zone material. The silicified zone assayed 1.26% copper, 0.006 oz/ton gold, 0.13 oz/ton silver; the shear zone assayed 2.08% copper, 0.002 oz/ton gold; 0.13 oz/ton silver. Mineralization with quartz veins in volcanics south of the Mud Lake shear assayed 1.92% copper, 0.006 oz/ton gold and 0.13 oz/ton silver.

On the main access road south of the Thunder Bay road turn off a shear zone occurs near the east margin of a shallow pit cleared on the east side of the road. This shear zone is vertical and trends north. Its width is approximately three feet with two eight inch zones of heavy malachite staining. A chip sample across the zone assayed 2.09% copper, <0.002 oz/ton gold, 0.51 oz/ton silver.

Above Round Lake two flow top structures exhibit chlorite, epidote, quartz, bornite, chalcopyrite mineralization in a steep road cut. Character samples assayed 3.21% copper, 0.030 oz/ton gold; 0.13 oz/ton silver and 0.44% copper, 0.002 oz/ton gold, 0.06 oz/ton silver from a chip sample across 3 feet.

The following is a list of additional samples collected to test various mineral occurrences and alteration zones: -

LIST OF GEOCHEMICAL SAMPLE RESULTS

<u>Sample No.</u>	<u>Rock Type</u>	ppm <u>Cu</u>	ppb <u>Au</u>	ppm <u>Ag</u>
B-30	Silicified Volcanics/ankerite	40	2	0.1
B-31	Silicified Volcanics/ankerite	36	-1	0.1
B-32	Bedded? tuff	59	30	0.1
B-33	Breccia near dyke	180	2	0.1
B-34	Pyroclastics	23	1	0.1
B-35	Breccia vole	46	1	0.1
B-36	Breccia vole	181	3	0.1
B-37	Breccia vole	41	5	0.1
B-38	Breccia vole	192	3	0.1
B-39	Silt sample	340	5	0.1
B-40	Ankerite alteration	65	3	0.1
B-41	Breccia vole	26	1	0.1
B-42	Breccia vole	590	15	0.1
B-43	Ankerite alteration	120	3	0.1
B-44	Cu and quartz in shears	+10,000	885	3.0
B-45	Cu and quartz in shears	+10,000	1500	57.0
B-46	Cu and quartz in shears	5,000	19	2.1
B-47	Cu and quartz in shears	+10,000	2	4.5
B-48	Float breccia	700	3	0.1
B-49	Ankerite alteration	680	8	0.1
B-50	Ankerite alteration	57	2	0.1
B-51	Ankerite alteration	1,280	10	0.2
B-52	Ankerite alteration	1,000	21	0.2
B-53	Ankerite alteration	1,390	10	0.2
B-54	Ankerite alteration	1,760	17	0.3
B-55	Quartz breccia	1,500	24	0.4
B-56	Weak ankerite	138	2	0.1
B-57	Ankerite quartz breccia	30	-1	0.1
B-58	Ankerite quartz breccia	15	-1	0.1
B-59	Ankerite quartz breccia	7	-1	0.1

<u>Sample No.</u>	<u>Rock Type</u>	ppm	ppb	ppm
		<u>Cu</u>	<u>Au</u>	<u>Ag</u>
B-60	Ankerite quartz breccia	7	-1	0.1
B-61	Ankerite quartz breccia	200	4	0.3
B-62	Ankerite quartz breccia	24	-1	0.1
B-63	Quartz float	400	1350	0.9
B-64	Breccia float	51	5	0.5
B-65	Interpillow breccia	71	10	0.1
B-66	Float rubble on shear	760	3	0.1
B-67	Float rubble on shear	10,000	157	2.6
B-68	Float rubble on shear	7,200	63	0.5
B-69	Float rubble on shear	110,000	89	1.8
B-70	Cu mineralization at adits	+10,000	48	2.3
B-71	Cu mineralization at adits	+10,000	84	3.6
B-72	Cu mineralization at adits	+10,000	440	12.8
B-73	Cu mineralization at adits	+10,000	243	4.3
B-74	Cu mineralization at adits	290	3	0.1
B-75	Silt sample	83	-5	0.1
B-76	Quartz vein in volcanics	154	3	0.1
B-77	Breccia	170	5	0.5
B-78	Quartz breccia, ankerite	1,150	12	0.1
B-79	Quartz breccia, ankerite	3,900	61	0.8
B-80	Quartz breccia, ankerite	2,500	31	0.4
B-81	Quartz breccia, ankerite	2,650	26	0.4
B-82	Float	80	3	0.1
B-83	Minor quartz veins	2,250	27	0.3
B-84	Minor quartz veins	5,500	65	0.7
B-85	Ankerite float	180	2	0.1
B-86	Ankerite float	132	-5	0.1
B-87	Ankerite float	450	31	0.1
B-88	Float	48	2	0.1
B-89	Quartz breccia	87	13	0.1

		<u>ppm</u> <u>Cu</u>	<u>ppb</u> <u>Au</u>	<u>ppm</u> <u>Ag</u>
B-90	Quartz breccia	-	14	0.1
B-91	Float	-	3	0.1
B-92	Silt	na	-5	0.1
B-93	Silt	na	-5	0.1
B-94	Silt	na	-5	0.1
B-95	Quartz breccia float/cpy	-	-1	0.3
B-96	Ankerite	-	4	0.1
B-97	Ankerite	-	3	0.1
B-98	Ankerite	-	5	0.1
B-99	Ankerite	-	2	0.1
B-100	Interpillow breccia	-	12	0.1
B-101	Interpillow breccia	-	20	0.1
B-102	Interpillow breccia	-	12	0.1
B-103	Silt	na	-5	0.1
B-104	Hb prophyry dyke	-	-1	0.1
B-105	Ankerite	-	6	0.1

RECOMMENDATIONS

Although prospecting has been conducted on the PATERSON LAKE 1 - 6 claims over a long period of time by the Paterson family and associates these mineral showings are not well documented in public files.


It is recommended that: -

- a) the current program of sampling, geological mapping and geophysical surveying be completed;
- b) all zones of mineralization, quartz breccia and ankeritic alteration be checked for precious metals content.
- c) The caved adits be cleaned out using a small back hoe to allow more complete sampling;
- d) that diamond drilling be planned to test the more important mineral showings and possible geophysical anomalies.

No reasonable estimation of the expenditures required for these exploration stages can be prepared until after completion of the current program.

Respectfully submitted

J.C. Stephen Explorations Ltd.

  
J.C. Stephen

JCS/ms



STATEMENT OF EXPENDITURE

LINE CUTTING

R. Bilquist and Associates

April 1 - 12, 1987

3.6 km Base line @ \$400/km \$1,440.00

30 km tie line and picket line @ \$175/km 5,250.00

MAPPING AND SAMPLING

W.A. Powell B.Sc.

April 3 - 10, 1987 @ \$300/day 2,400.00

ANALYSIS

5 Silt, 2 Soil, 67 Rock Samples for Au, Ag, Cu 962.00

AIR PHOTO ENLARGEMENTS, DRAFTING, ETC

300.00

TOTAL

\$10,352.00

STATEMENT OF QUALIFICATIONS

J.C. STEPHEN

Academic

1950 Associate Member British Institute Engineering Technology  
1950-1951 One year Geology University of Alberta

Experience Summary

1947-1955 Development and production experience in engineering and geology at Central Patricia Gold Mines, Eldorado Mining and Refining, Madsen Gold Mines, Hasaga Gold Mines, Pickle Crow Gold Mines as Surveyor, Assistant to the Engineer, Geologist.  
1955-1959 Regional exploration experience with Pickle Crow Gold Mines, Combined Developments Ltd., R.G. Crosby and Associates, Jay-Kay Syndicate as Field Geologist.  
1959-1961 Municipal construction including monolithic concrete tunnels as Senior Inspector.  
1962-1968 Regional exploration with Mastodon Highland Bell Mines as field geologist.  
1968-1976 Regional exploration with Bacon and Crowhurst Ltd., as supervisor of exploration syndicates.  
1977-Present President J.C. Stephen Explorations Ltd.

Management of various exploration syndicates. B.C. and Yukon  
Management of publicly listed resource companies and supervision of exploration and development programs

J.C. Stephen



# Chemex Labs Ltd.

Analytical Chemists • Geochemists • Registered Assayers

212 BROOKSBANK AVE., NORTH VANCOUVER,  
BRITISH COLUMBIA, CANADA V7J-2C1

PHONE (604) 984-0221

## CERTIFICATE OF ANALYSIS A8713.02

To STEPHEN, J.C. EXPLORATION LIMITED

746 REGAL CRESCENT  
NORTH VANCOUVER, B.C.  
V7K 2X8

Page No. : 1  
Tot. Pages: 2  
Date : 01-MAY-87  
Invoice # : I-8713562  
P.O. # : NONE

Project : PATTERSON DELLA TERRA  
Comments: PATTERSON LAKE PROJECT

SAMPLE DESCRIPTION	PREP CODE	Cu ppm	Ag ppm Aqua R	Au NAA ppt						
87 B 030	205	---	10	0.1	< 2					
87 B 031	205	---	36	0.1	< 1					
87 B 033	205	---	180	0.1	2					
87 B 034	205	---	23	0.1	1					
87 B 035	205	---	46	0.1	1					
87 B 036	205	---	181	0.1	3					
87 B 038	205	---	192	0.1	3					
87 B 040	205	---	65	0.1	3					
87 B 041	205	---	26	0.1	1					
87 B 042	205	---	590	0.1	15					
87 B 043	205	---	120	0.1	3					
87 B 044	205	---	>10000	3.0	885					
87 B 045	205	---	>10000	57.0	1500					
87 B 046	205	---	5000	2.1	19					
87 B 047	205	---	>10000	4.5	2					
87 B 048	205	---	700	0.1	3					
87 B 049	205	---	680	0.1	8					
87 B 050	205	---	57	0.1	2					
87 B 051	205	---	1280	0.2	10					
87 B 052	205	---	1000	0.2	21					
87 B 053	205	---	1390	0.2	10					
87 B 054	205	---	1760	0.3	17					
87 B 055	205	---	1500	0.4	24					
87 B 056	205	---	138	0.1	2					
87 B 057	205	---	30	0.1	< 1					
87 B 058	205	---	15	0.1	< 1					
87 B 059	205	---	7	0.1	< 1					
87 B 060	205	---	7	0.1	< 1					
87 B 061	205	---	200	0.3	4					
87 B 062	205	---	24	0.1	< 1					
87 B 063	205	---	400	0.9	1350					
87 B 064	205	---	51	0.5	5					
87 B 065	205	---	71	0.1	10					
87 B 066	205	---	760	0.1	3					
87 B 067	205	---	10000	2.6	157					
87 B 068	205	---	7200	0.5	63					
87 B 069	205	---	>10000	1.8	89					
87 B 070	205	---	>10000	2.3	48					
87 B 071	205	---	>10000	3.6	84					
87 B 072	205	---	>10000	12.8	440					

CERTIFICATION :

*Hart Becker*



# Chemex Labs Ltd.

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 212 BROOKSBANK AVE., NORTH VANCOUVER,  
 BRITISH COLUMBIA, CANADA V7J-2C1  
 PHONE (604) 984-0221

## CERTIFICATE OF ANALYSIS A87135

To: STEPHEN, J.C. EXPLORATION LIMITED

746 REGAL CRESCENT  
 NORTH VANCOUVER, B.C.  
 V7K 2X8

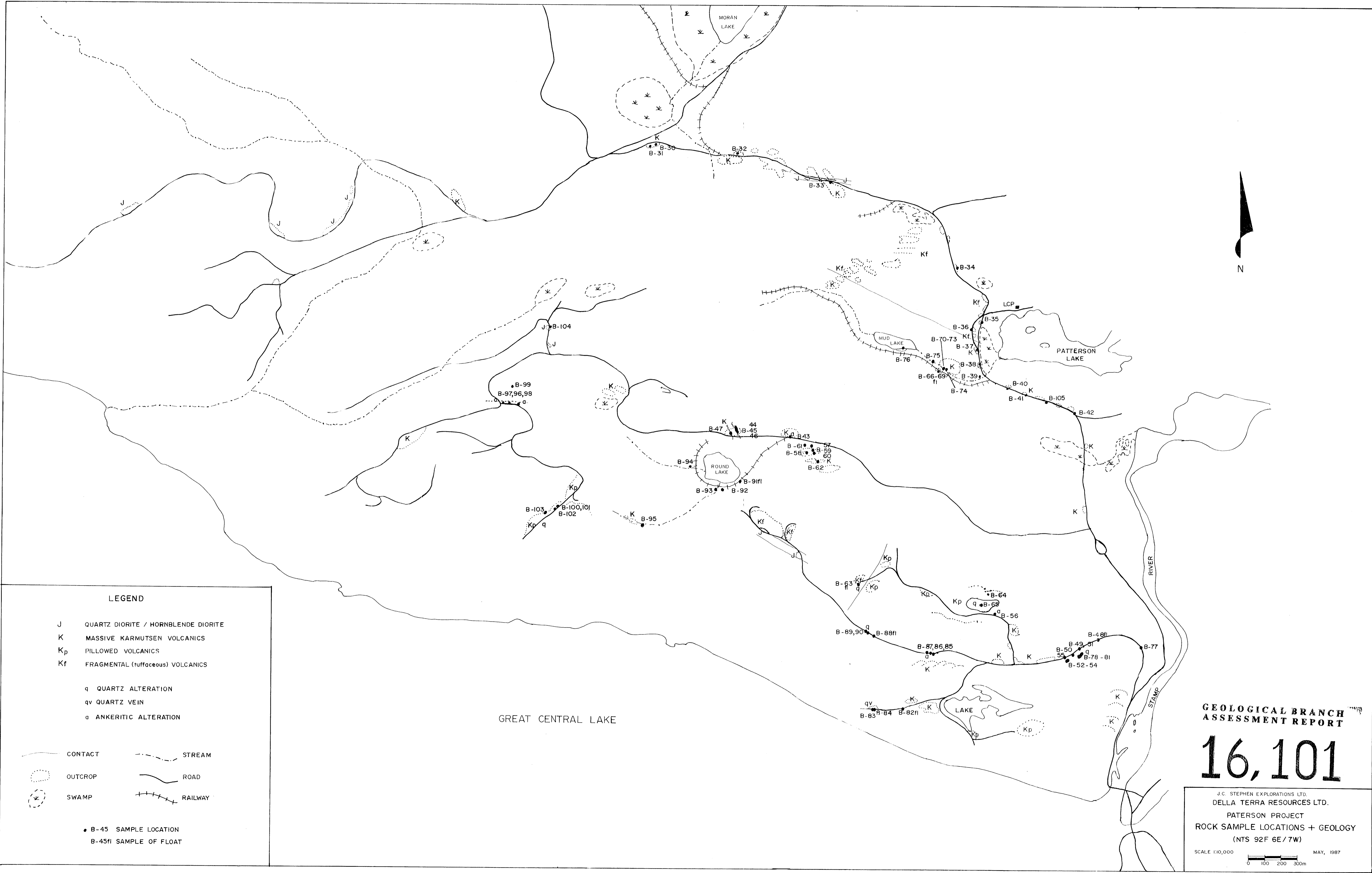
Page No. : 2  
 Tot. Pages: 2  
 Date : 01-MAY-87  
 Invoice # : I-8713562  
 P.O. # : NONE

Project : PATTERSON  
 Comments :

SAMPLE DESCRIPTION	PREP CODE	Cu ppm	Ag ppm Aqua R	Au NAA ppb					
87 B 073	205 ---	>10000	4.3	243					
87 B 074	205 ---	290	0.1	3					
87 B 076	205 ---	154	0.1	3					
87 B 077	205 ---	170	0.5	5					
87 B 078	205 ---	1150	0.1	12					
87 B 079	205 ---	3900	0.8	61					
87 B 080	205 ---	2500	0.4	31					
87 B 081	205 ---	2650	0.4	26					
87 B 082	205 ---	80	0.1	3					
87 B 083	205 ---	2250	0.3	27					
87 B 084	205 ---	5500	0.7	65					
87 B 085	205 ---	180	0.1	2					
87 B 087	205 ---	450	0.1	31					
87 B 088	205 ---	48	0.1	2					
87 B 089	205 ---	87	0.1	13					
87 B 090	205 ---	-----	0.1	14					
87 B 091	205 ---	-----	0.1	3					
87 B 095	205 ---	-----	0.3	< 1					
87 B 096	205 ---	-----	0.1	4					
87 B 097	205 ---	-----	0.1	3					
87 B 098	205 ---	-----	0.1	5					
87 B 099	205 ---	-----	0.1	2					
87 B 100	205 ---	-----	0.1	12					
87 B 101	205 ---	-----	0.1	20					
87 B 102	205 ---	-----	0.1	12					
87 B 104	205 ---	-----	0.1	< 1					
87 B 105	205 ---	-----	0.1	6					

CERTIFICATION :

*Hart Becher*



**LEGEND**

- J QUARTZ DIORITE / HORNBLENDE DIORITE
- K MASSIVE KARLUTSEN VOLCANICS
- Kp PILLOWED VOLCANICS
- Kf FRAGMENTAL (tuffaceous) VOLCANICS

- q QUARTZ ALTERATION
- qv QUARTZ VEIN
- a ANKERITIC ALTERATION

- CONTACT
- OUTCROP
- SWAMP
- STREAM
- ROAD
- RAILWAY

- B-45 SAMPLE LOCATION
- B-45fi SAMPLE OF FLOAT

**GEOLOGICAL BRANCH  
ASSESSMENT REPORT**

**16,101**

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