1983 Drilling Assessment Report

TITLE		Tootsee River Property
AUTHOR		A. C. Hitchins
WORK PERIOD		4 Oct. - 14 Oct. 1983
CLAIMS		Hot 1-80
COMMODITIES		W-Mo
LOCATION	-Area	28 km S.E. of Rancheria, Y.T.
	-Co-ordinates	Latitude 60°01'N Longitude 130°07'W
	-Mining Division	Watson Lake M.D.
	-NTS	105B1 E½
FOR		Canamax Resources Inc.

CANAMAX VANCOUVER OFFICE

091528

This report has been accepted by the Geological Evaluation Unit under Section 53 of the Yukon Quartz Mining Act and is allowed as representation work in the amount of $ 27,927.80.

K. Grapes

for Regional Manager, Exploration and Geological Services for Commissioner of Yukon Territory.

TABLE OF CONTENTS

APPENDICES

FIGURES

INTRODUCTION

General Statement

The report summarizes the results of a single 181.7 m NQ diamond drill hole designed to test a pyrrhotite gossan in a hornfels zone. The hole was collared at an elevation of 1280 m in the western portion of Hot 9 claim and was drilled at -55° on a bearing of S 45° W.

The drilling contractor was Arctic Diamond Drilling of Whitehorse with helicopter support provided mainly by a Hughes 500D owned by Canwest Helicopters of Okotoks, Alberta. A Frontier Bell 205 helicopter from Watson Lake was utilized for drill moves.

Tony Hitchins, Will Halleran and Tom Robinson of Canamax logged and split the drill core. The core is presently stored at Twilight Services in Watson Lake, Y.T.

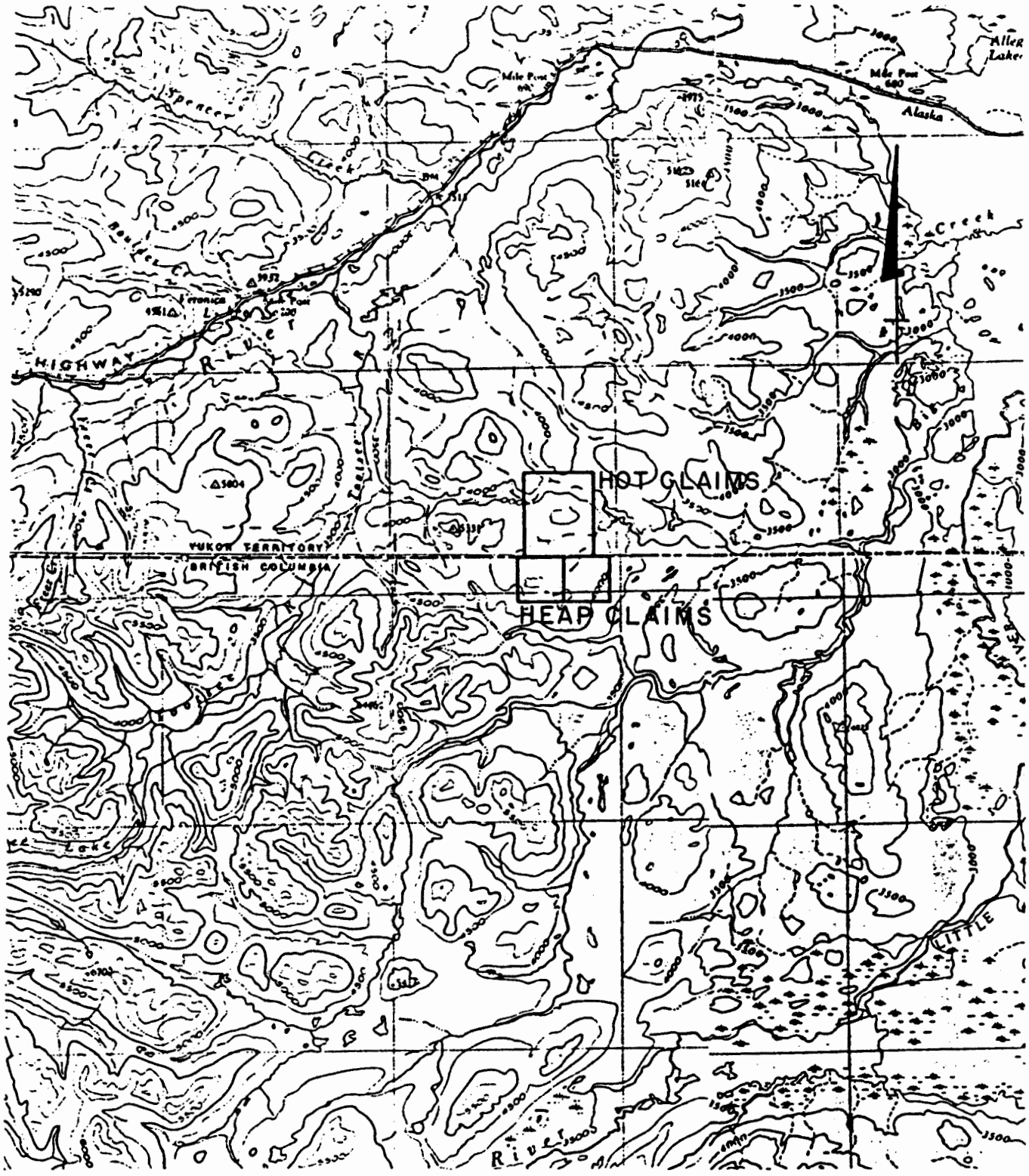
Location and Access

The Hot 1-80 claims of the Tootsee River property are located adjacent to the B.C.-Yukon border 28 km southeast of the village of Rancheria on the Alaska Highway.

Access is by helicopter from Watson Lake 75 km to the east or from Rancheria during the field season.

Previous Work

The claims were staked in 1979 to cover the apparent source of a tungsten silt anomaly. Work in 1979 and 1980 concentrated on geological mapping, with concurrent grid soil geochemistry, magnetic and VLF-EM surveys.



CANAMAX RESOURCES INC.

TOOTSEE RIVER PROPERTY

WATSON LAKE M.D. — YUKON
ATLIN M.D. — B.C.

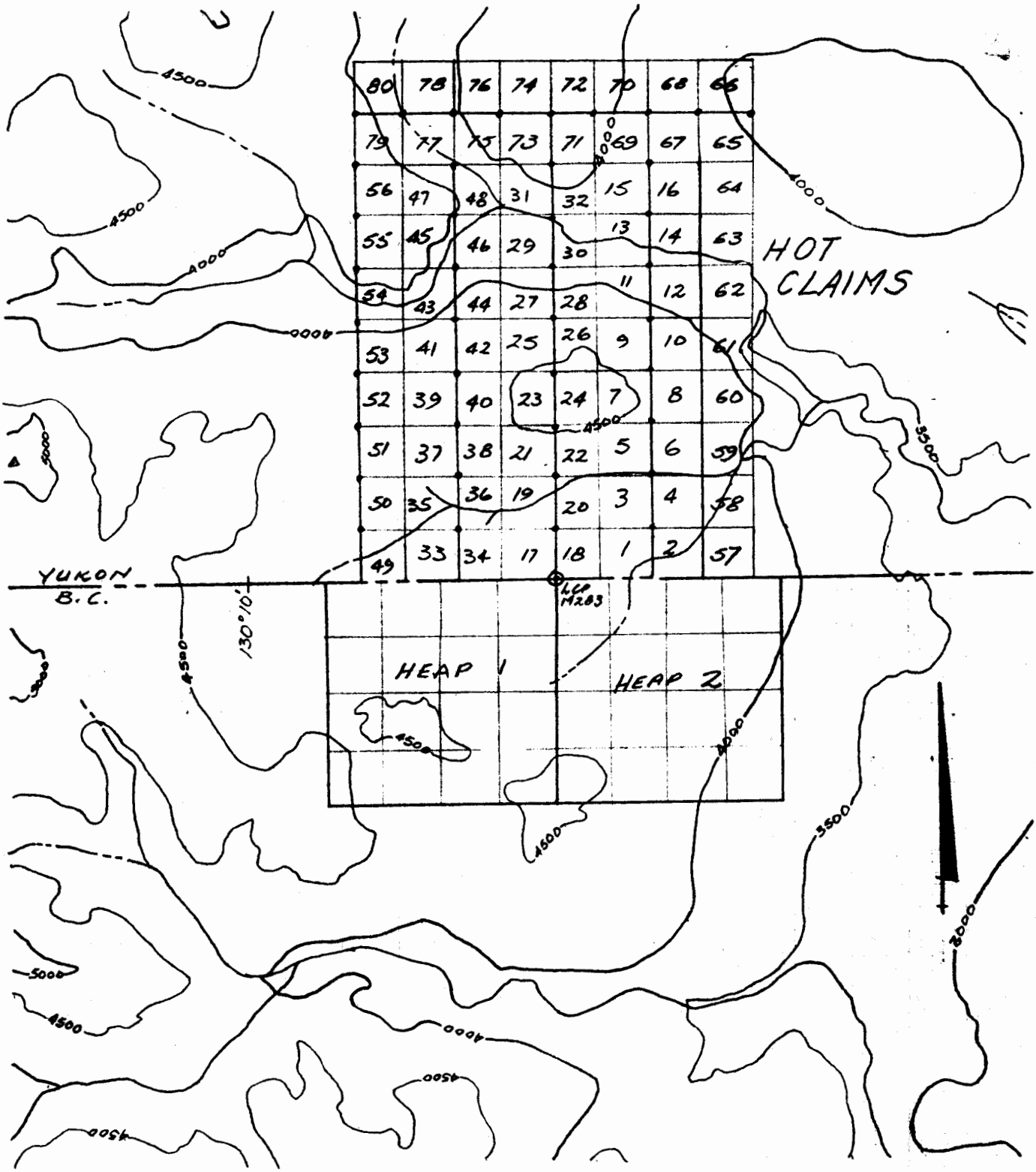
LOCATION MAP

SCALE 8 0 8 KILOMETRES
4 0 4 MILES

1 : 250,000

N.T.S. Ref. 104 O 16, 105 B 1

Fig. 1



CANAMAX RESOURCES INC.

TOOTSEE RIVER PROPERTY

WATSON LAKE M.D. - YUKON

ATLIN M.D. - B.C.

CLAIM MAP

1:50,000

FIG 2

NTS Ref. 104 O 16, 105 B 1

RESULTS

The hole intersected 181 m of brown fine grained pelitic hornfels with scattered narrow light green, medium grained, occasionally pyrrhotitic calcsilicate bands. Narrow marble bands, often with bleached margins were present in the upper 147 m of the hole. Trace chalcopyrite and rare scheelite were noted on widely spaced hairline fractures between 93 m and 147 m. Narrow carbonate veins between 161-165 m contain galena, sphalerite and chalcopyrite.

Analytical results for Mo, Cu, Ni, Co, Mn, Fe, Ag, Zn and Pb appear in Table 1.

A. C. Hitchins

CANAMAX RESOURCES INC.

TOOTSEE RIVER PROPERTY

HOT CLAIMS

WATSON LAKE MINING DISTRICT — YUKON TERRITORY

DIAMOND DRILL HOLE LOCATION

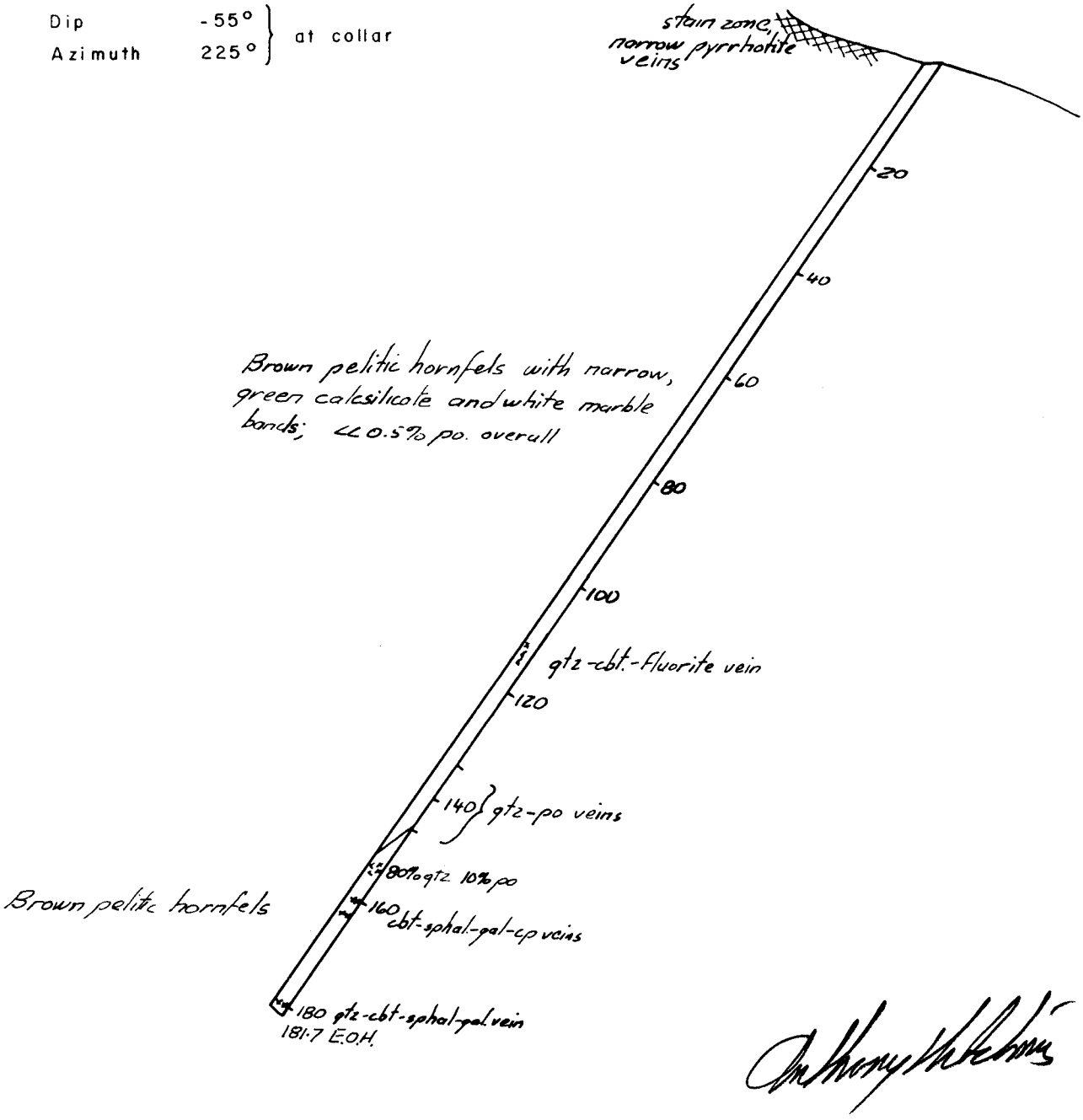
SCALE 400 0 400 METRES
1000 0 1000 FEET
1:10,000

Vancouver —

N. T. S. Ref. 105 B/1

FIG. 3

Location	2040 N — 750 E	
Elevation	1280 m	
Dip	-55°	at collar
Azimuth	225°	at collar



CANAMAX RESOURCES INC.

TOOTSEE RIVER PROPERTY
HOT CLAIMS
WATSON LAKE MINING DISTRICT — YUKON TERRITORY

SECTION ALONG D.D.H. TR-83-3
LOOKING NORTHWEST

SCALE 40 0 40 METRES
100 0 100 FEET
1 : 1,000

Vancouver —

N. T. S. Ref. 105 B/1

FIG. 4

APPENDIX I

STATEMENT OF COSTS

APPENDIX I

STATEMENT OF COSTS

Period of Work - Oct. 4 - 14, 1983

Drilling - Arctic Diamond Drilling Ltd.
184 Industrial Road
Whitehorse, Y.T.

Invoice # 2295

Hole 83-3, 181 m (596') NQ Diamond Drilling	$27,927.80

We wish to apply 1 year's assessment work to each of the Hot 1-80 claims.

ARCTIC DIAMOND DRILLING LTD.

184 Industrial Road, Whitehorse, Yukon Y1A 2V1 (403) 667-6434

October 20, 1983
Invoice # 2295

Canamax Resources Inc.
601 - 535 Thurlow Street
Vancouver, B.C.
V6E 3L6

AP 4
#3011-2

Tootsee River Project

Drilling charges for the Period October 1 -14, 1983

Hole #83-A3-55xNQ		
Moving		
76 Man hours @ 29.00 per hr.	2204.00	
Casing		
0 - 11=11' @ 20.00 per foot	220.00	
Core Drilling		
11 - 596 = 585' @ 21.00 per ft.	12285.00	
Water Supply		
122 Man hours @ 29.00 per hr.	3538.00	
Standby		
32 Man hours @ 29.00 per hr.	928.00	19175.00
Demobilizing		
92 Man hours @ 29.00 per hr.	2668.00	
Demobilization		
RE Clause 5 (a) of Contract ½x 2800	1400.00	4068.00
Board for Company Representatives		
118 Man days @ 30.00 per day		3540.00
Use of Mud Re Clause 5 e) i)		
22 Bags Quik Gel @ 15.50	341.00	
22 Man hours @ 29.00 per hr.	638.00	
11 Machine hrs.@ 12.00 per hr.	132.00	
1 Box CC-16 @ 33.80	33.80	1144.80

27927.80

APPENDIX II

STATEMENT OF QUALIFICATIONS

STATEMENT OF QUALIFICATIONS

NAME: A.C. Hitchins

ADDRESS: 601-535 Thurlow Street,
Vancouver, B.C. V6E 3L6

EDUCATION: University of Toronto - B.A. Sc. 1970
University of Toronto - M.Sc. 1973

EXPERIENCE: AMAX of Canada Limited - Staff Geologist - 1974 to present

STATEMENT OF QUALIFICATIONS

NAME	W.H. Halleran
ADDRESS	Box 793, Fort St. Hames, B.C. V0J 1P0
EDUCATION	1979-1983 University of British Columbia Bachelor of Science in Geology, May 1983
EXPERIENCE	1979 - 1982 Archer, Cathro and Assoc. Ltd. Senior Assistant and Prospector 1983 Canamax Resources Inc. Geologist

STATEMENT OF QUALIFICATIONS

NAME	E.T. Robinson
ADDRESS	Old Ferry Road, General Delivery, Monte Creek, B.C. VOE 2MO
EDUCATION	1980-1982 - Cariboo College Geology Correspondence Mineralogy Course - from Ministry of Education Victoria, B.C.
EXPERIENCE	Summer 1981 - Sulpetro Minerals Ltd. Junior Field Assistant Sept. 1981- - Cariboo College Dec. 1981 Geology Lab. Assistant Summer 1982 - AMAX Minerals Exploration Geological Assistant Summer 1983 - Canamax Resources Inc. Geological Assistant

APPENDIX III

ANALYTICAL RESULTS AND METHODS

Kossbacher Laboratory Ltd.

GEOCHEMICAL ANALYSTS & ASSAYERS

BURNABY, B.C.
CANADA
TELEPHONE: 299-6910

CERTIFICATE OF ANALYSIS

CERTIFICATE NO. 83520-2

INVOICE NO.

DATE ANALYSED 83/11/09

57043

TO: CANAMAX RESOURCES INC.
601 - 535 THURLOW STREET

Analytical Results
Tootsee River Property
Hot Claims
DDH 83-3

Table 1

	Sample #		Mo	Cu	Ni	Co	Mn	Fe(%)	Ag	Zn	Pb	Depth(m)	Interval(m)
07	83EXT 133		9	62	30	12	240	1.6	3.8	32	428	7.13-8.44	1.31
08	134		8	48	22	6	460	1.4	0.2	30	50	11.4-12.9	1.5
09	135		7	22	38	10	200	2.6	0.2	46	8	17.0-18.46	1.46
10	83EXT 136		5	32	30	8	140	1.4	0.2	30	6	22.67-24.01	1.34
11	137		4	48	30	8	200	1.3	0.2	46	4	28.12-29.52	1.4
12	138		5	84	30	14	80	1.6	0.8	26	8	33.84-35.27	1.43
13	139		4	52	28	8	120	1.2	0.2	32	8	39.27-40.76	1.49
14	140		3	50	30	10	220	1.9	0.2	38	6	44.97-46.35	1.38
15	141		2	82	30	10	200	1.7	0.2	42	8	50.77-52.20	1.43
16	142		4	58	36	12	240	2.3	0.2	66	4	56.53-57.82	1.29
17	143		4	84	42	18	200	2.9	0.2	60	4	62.00-63.28	1.28
18	144		4	30	36	12	100	1.6	0.4	34	4	67.12-68.51	1.39
19	83EXT 145		3	26	42	14	160	2.4	0.2	58	8	72.23-74.10	1.87
20	STD B		30	142	14	2	160	1.0	1.0	142	94		
21	83EXT 146		4	94	40	12	140	1.9	0.4	46	4	75.29-76.78	1.49
22	147		7	50	26	8	120	1.2	0.4	36	22	84.06-85.50	1.44
23	148		6	52	26	8	120	1.2	0.4	36	10	89.11-91.07	1.96
24	149		7	82	24	8	120	1.1	0.4	44	8	95.49-96.92	1.43
25	150		3	50	18	6	80	0.7	0.6	30	8	101.23-102.73	1.5
26	151		3	112	30	8	120	1.1	0.4	40	10	107.1-108.54	1.44
27	152		3	140	34	10	120	1.4	0.4	34	8	112.73-114.17	1.44
28	153		4	178	58	18	80	1.3	0.2	30	4	118.40-119.90	1.5
29	154		3	34	28	2	80	0.6	0.4	30	8	124.3-125.79	1.49
30	83EXT 155		3	86	24	10	100	1.1	0.4	34	10	130.0-131.46	1.46
31	156		2	30	20	4	140	0.9	0.2	36	8	135.74-136.10	0.36
32	157		1	80	38	10	80	1.0	0.2	32	8	141.46-142.84	1.38
33	158		3	34	32	14	180	2.5	0.2	52	2	147.28-148.69	1.41
34	162		3	52	42	20	200	3.6	0.2	60	2	165.86-167.19	1.33
35	163		3	36	40	18	280	3.9	0.2	136	2	170.18-172.3	1.5
36	164		4	34	40	16	280	3.6	0.2	72	2	175.91-177.4	1.49
37	83EXT 165		2	84	48	22	240	5.2	0.4	60	2	180.23-181.7	1.47
38	STD B		29	150	14	2	160	1.0	1.0	144	96		
39													
40													

VALUES IN PPM, UNLESS NOTED OTHERWISE.

Certified by L. Kossbacher

Rossbacher Laboratory
GEOCHEMICAL ANALYSTS & ASSAYERS

2225 S. SPRINGER AVE.,
BURNABY, B.C.
CANADA
TELEPHONE: 299-6910
AREA CODE: 604

Jan. 1982

(1)

GEOCHEMICAL ANALYTICAL METHODS CURRENTLY IN USE AT ROSSBACHER LABORATORY LTD.

A. SAMPLE PREPARATION

1. Geochem. Soil and Silt: Samples are dried, and sifted to minus 80 Mesh, through stainless steel, or nylon screens.

2. Geochem. Rock: Samples are dried, crushed to minus ¼ inch, split, and pulverized to minus 100 mesh.

B. METHODS OF ANALYSIS

1. Multielement: (Mo, Cu, Ni, Co, Mn, Fe, Ag, Zn, Pb, Cd):
0.5 Gram sample is digested for four hours with a 15:35 mixture of Nitric-Perchloric acid.
The resulting extract is analyzed by Atomic Absorption spectroscopy, using Background Correction where appropriate.

2. Antimony: 0.50 Gram sample is fused with Ammonium Iodide and dissolved.
The resulting solution is extracted into TOPO/MIBK and analyzed by Atomic Absorption spectroscopy.

3. Arsenic: 0.25 Gram sample is digested with Nitric-Perchloric acid.
Arsenic from the solution is converted to arsine, which in turn reacts with silver D.D.C. The resulting solution is analyzed by colorimetry.

4. Barium: 0.50 Gram sample is repeatedly digested with $HClO_4$-HNO_3 and HF.
The solution is analyzed by Atomic Absorption spectroscopy.

5. Biogeochemical: Samples are dried, and ashed at 550°C. and the resulting ash analyzed as in #1, multielement analysis.

6. Bismuth: 0.50 Gram sample is digested with Nitric acid. The solution is analyzed by Atomic Absorption spectroscopy.

7. Chromium: 0.25 Gram sample is fused with Sodium Peroxide. The solution is analyzed by Atomic Absorption spectroscopy.

Rossbacher Laboratory
GEOCHEMICAL ANALYSTS & ASSAYERS

2225 S. SPRINGER AVE.,
BURNABY, B.C.
CANADA
TELEPHONE: 299-6910
AREA CODE: 604

METHOD OF ANALYSIS (CONT.)

8.	Fluorine:	0.50 Gram sample is fused with a Carbonate Flux, and dissolved. The resulting solution is analyzed for Fluorine by use of an Ion Selective Electrode.
9.	Gold:	10.0 Gram sample is roasted at 550°C. and dissolved in Aqua Regia. The resulting solution is subjected to a Methylisobutyl Ketone extraction, which extract is analyzed for Gold using Atomic Absorption spectroscopy.
10.	Mercury:	1.00 Gram sample is digested with Nitric and Sulfuric acids. The solution is analyzed by Atomic Absorption spectroscopy, using a cold vapor generation technique.
11.	Partial Extraction and Fe/Mn oxides:	0.50 Gram sample is extracted using one of the following: Hot or cold 0.5 M. HCL, 2.5% E.D.T.A., Ammonium Citrate, or other selected organic acids. The solution is analyzed by use of Atomic Absorption spectroscopy.
12.	pH:	An aqueous suspension of soil, or silt is prepared, and its pH is measured by use of a pH meter.
13.	Rapid Silicate Analysis:	0.10 Gram sample is fused with Lithium Metaborate, and dissolved in HNO_3. The solution is analyzed by Atomic Absorption for SiO_2, Al_2O_3, Fe_2O_3, MgO, CaO, Na_2O, K_2O, TiO_2, P_2O_5, and MnO.
14.	Tin:	0.50 Gram sample is sublimated by fusion with Ammonium Iodide, and dissolved. The resulting solution is extracted into TOPO/MIBK and analyzed by Atomic Absorption spectroscopy.
15.	Tungsten:	1.00 Gram sample is sintered with a carbonate flux, and dissolved. The resulting extract is analyzed colorimetrically, after reduction with Stannous Chloride, by use of Potassium Thiocyanate.

APPENDIX IV

DRILL LOGS

CANAMAX RESOURCES INC.

TOOTSEE RIVER PROJECT

D.D.H. -83-3

SHEET 1 OF 3

DEPTH METRES	GRAPHIC LOG: LITH.	GRAPHIC LOG: BEDDING	GRAPHIC LOG: FAULTS	GRAPHIC LOG: NUMBER OF PIECES	% REC.	ASSAY INTERCEPTS	ASSAY DATA: SAMPLE NO. AND INTERVAL	ASSAY DATA: % WO_3	ASSAY DATA: % MoS_2	ASSAY DATA: VIS. EST. WO_3	SIZE WO_3: 1 Fine 5 Coarse	NOTES
0 to 3.14												Rubble of rusty brown hornfels
3.14 181.7												Brown fine grained pelitic hornfels with scattered narrow, light green, medium grained, occasionally pyrrhotitic calcsilicate bands, often with bleached envelopes; minor carbonate remains in calcsilicate bands, narrow bleached fractures every 4-15 cm, << 0.5% Po overall.
												11.0 about 60% of core is a recrystallized marble with <15% dark green tremolite needles and irregular clots of white quartz up to 8 cm across, wisps of brown hornfels in marble
												14.2 bedding 15° to C.A.
												30.0 <3% pink-purple bands of hornfels
												33.0 bedding 0-15° to C.A.
												36.4 2 cm folded qtz-po vein
												38.6-42.0 pale grey, green and pink calcsilicate hornfels with remnant marble bands up to 7 cm wide, up to 15% Po, marble often remobilized into cross cutting structures
												47.0 bedding, 0° to C.A.
												47.8-53.0 tightly folded quartz-calcite-pyrrhotite veins and pyrrhotite-tremolite with bleached margins in brown hornfels; section is well fractured; pyrrhotite is restricted to marble or green calcsilicate bands, where a po bearing fracture crosses from calcsilicate to pelitic hornfels po disappears

CANAMAX RESOURCES INC.

TOOTSEE RIVER PROJECT

D.D.H. -83- 3

SHEET 2 OF 3

DEPTH METRES	GRAPHIC LOG: LITH.	GRAPHIC LOG: BEDDING	GRAPHIC LOG: FAULTS	GRAPHIC LOG: NUMBER OF PIECES	% REC.	ASSAY INTERCEPTS	ASSAY DATA: SAMPLE NO. AND INTERVAL	ASSAY DATA: % WO_3	ASSAY DATA: % MoS_2	ASSAY DATA: VIS. EST. WO_3	ASSAY DATA	ASSAY DATA	SIZE WO_3 1 Fine 5 Coarse				NOTES
																	57.0 bedding at 40° to C.A.
																	79.2 bedding at 25° to C.A.
																	77.0-92.7 10-15% core is pinkish hornfels both as bands parallel to bedding and as irregular blebs associated with green and cream coloured calcsilicate hornfels
																	90.2 bedding 20° to C.A.
																	93.3-147.57 interbedded and mottled brown, green and pinkish hornfels with 1-2 cm wide marble bands, patches of pyrrhotite with minor green pyroxene or tremolite, cream and pinkish hornfels appears to be replacing brown hornfels, brown hornfels becomes less abundant with depth, within marble bands Po is 5-30% but over entire section <1% Po. Trace Cp, scheelite, sparse hairline pyroxene-pyrrhotite coated fractures, scattered late vuggy quartz-carbonate vein to 3 mm usually 45-60° to C.A.
																	102 bedding 0° to C.A.
																	114.4 1 cm banded quartz-cbt (fluorite) vein 5° to C.A. >50% Po in marble bands, bedding is sub-parallel to C.A. and Po rich bands are 10-15 cm apart. Cream and pink hornfels is more siliceous than brown hornfels

CANAMAX RESOURCES INC.

TOOTSEE RIVER PROJECT

D.D.H. -83- 3

SHEET 3 OF 3

DEPTH METRES	GRAPHIC LOG: LITH.	GRAPHIC LOG: BEDDING	GRAPHIC LOG: FAULTS	GRAPHIC LOG: NUMBER OF PIECES	% REC.	ASSAY INTERCEPTS	ASSAY DATA: SAMPLE NO. AND INTERVAL	ASSAY DATA: % WO_3	ASSAY DATA: % MoS_2	ASSAY DATA: VIS. EST. WO_3	ASSAY DATA	ASSAY DATA	SIZE WO_3 1 Fine 5 Coarse				NOTES
																	138.17 138.6 contorted 1-2 cm qtz-po (cp) veins with 147.08 tremolitic margins 147.33
																	138.6-139.5 weakly hornfelsed brown argillite breaks along bedding 60° to C.A.
																	146.6 bedding 30° to C.A.
																	147.5-181.7 brown hornfels with minor greenish laminations, contact with overlying green, cream and pinkish hornfels is gradational over 2-3 cm, this section is softer than overlying hornfels, cremulation still visible in weakly hornfelsed argillite, very little carbonate in this section.
																	155.10-156.6 >80% white quartz with 10% strongly magnetic pyrrhotite, trace chalcopyrite
																	158-160.12 as above but less po and minor sphalerite
																	161.97 0.5 cm carbonate vein with galena, sphalerite, cp
																	164.2-165 " " " " " " "
																	178.0 bedding 60° to C.A.
																	180 0.5 cm qtz-cbt slip with minor sphalerite and galena
																	181.7 End of Hole