

83-#460-11479
10/84

ASSESSMENT REPORT

DIAMOND DRILLING
ON THE
LAWYERS #1 GROUP
(Submitted as assessment work
for the Breeze Claim,
New Lawyers GTW Fr., and
Lawyers Law Breeze Fr.)

OMINECA MINING DIVISION

by

M.A. STAMMERS

LOCATION: N.T.S. 94E/6E
57°18' to 57°21' N Latitude
127°08' to 127°13' W Longitude

OWNER/OPERATOR: SEREM LTD.

DATES WORK PERFORMED: June 25-30, 1983

DATE OF REPORT: OCTOBER 1983

**GEOLOGICAL BRANCH
ASSESSMENT REPORT**

11,479

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INTRODUCTION

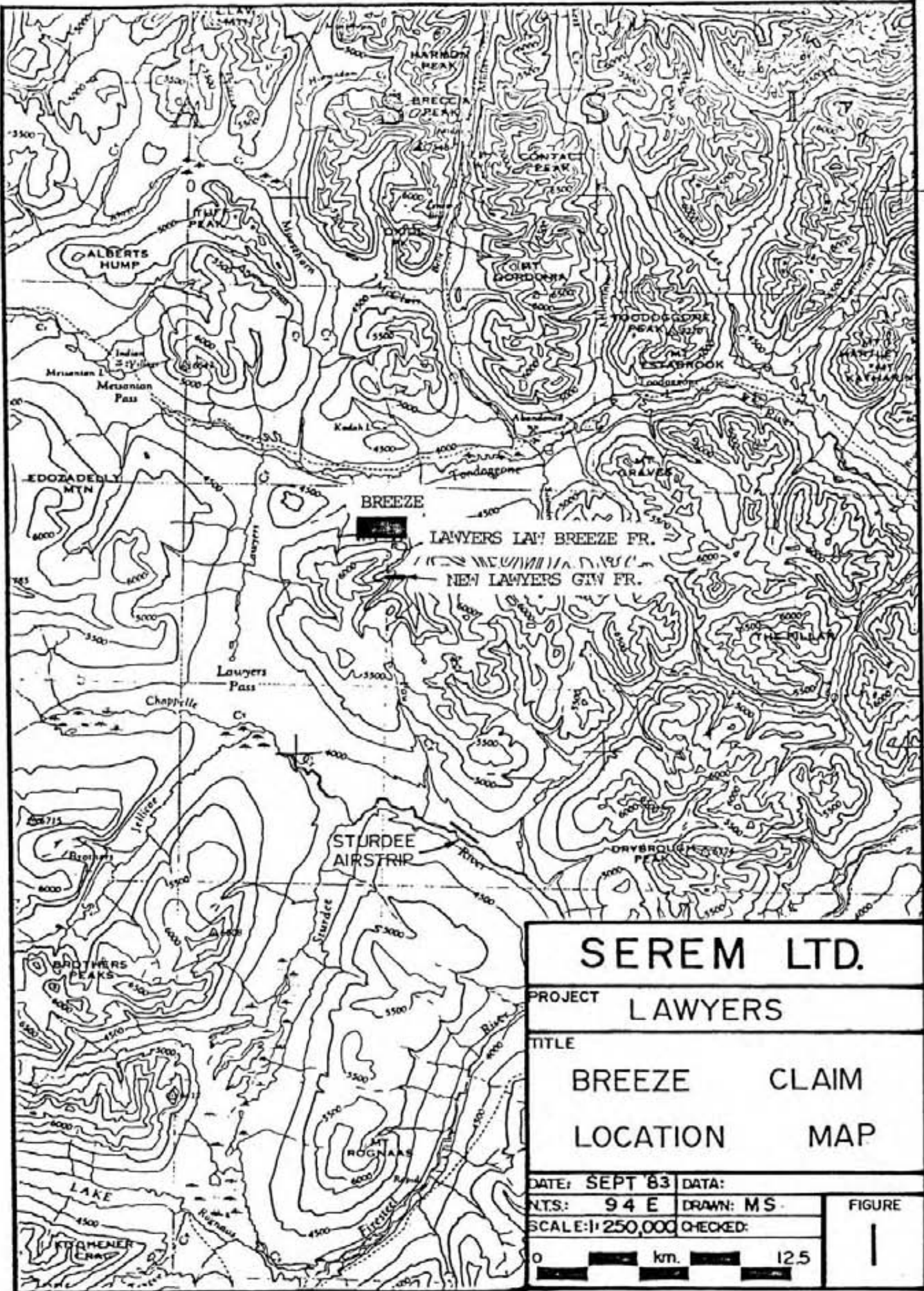
The Lawyers #1 claim group is located between 57°18' 57°21' N latitude and between 127°08' and 127°13' W longitude in the Toodoggone River map sheet area, N.T.S. 94E/6E, Omineca Mining Division (Figures 1 and 2). Access to the property is by fixed-wing north from Smithers to the Sturdee Valley airstrip (270 km) and by truck 17 km to the property's southern boundary.

The Lawyers #1 claim group is owned and operated by Serem Ltd. with the exception of the New Lawyers 1 claim which is owned 20% by Kennco Explorations (Western) Ltd. The group consists of the following claims:

<u>Claim Name</u>	<u>Record No.</u>	<u>No. of Units</u>
New Lawyers 1	39	20
Breeze	2134	10
GTW 1	2798	8
GTW 2	2799	8
GTW 3	2800	8
Road I	3124	10
Road II	3125	15
Road III	3126	6
New Lawyers GTW Fr.	4606	1
Lawyers Law Breeze Fr.	4607	1

Previous work carried out by Serem Ltd. on the Lawyers #1 group consists of extensive diamond drilling, trenching and underground exploration on the New Lawyers 1 claim (1979-1982) and trenching, geochemical soil and rock sampling and geological mapping on other claims in the group (1980-1982). Kennco Explorations (Western) Ltd. drilled and trenched the New Lawyers 1 claim in 1974 and 1975.

In 1983, Serem Ltd. performed diamond drilling, trenching and geological mapping on the New Lawyers 1 claim. This report includes one B.Q. diamond drill hole, 83-1, for a total of 243.84 metres. The drilling was done to test the depth potential for gold-silver mineralization on the 'Amethyst Gold Breccia' zone. The drilling was done by D.J. Drilling Company Ltd. of Surrey, B.C. Core was logged by M.A. Stammers and core assay samples were sent to Min-En Laboratories of North Vancouver for gold-silver analysis.



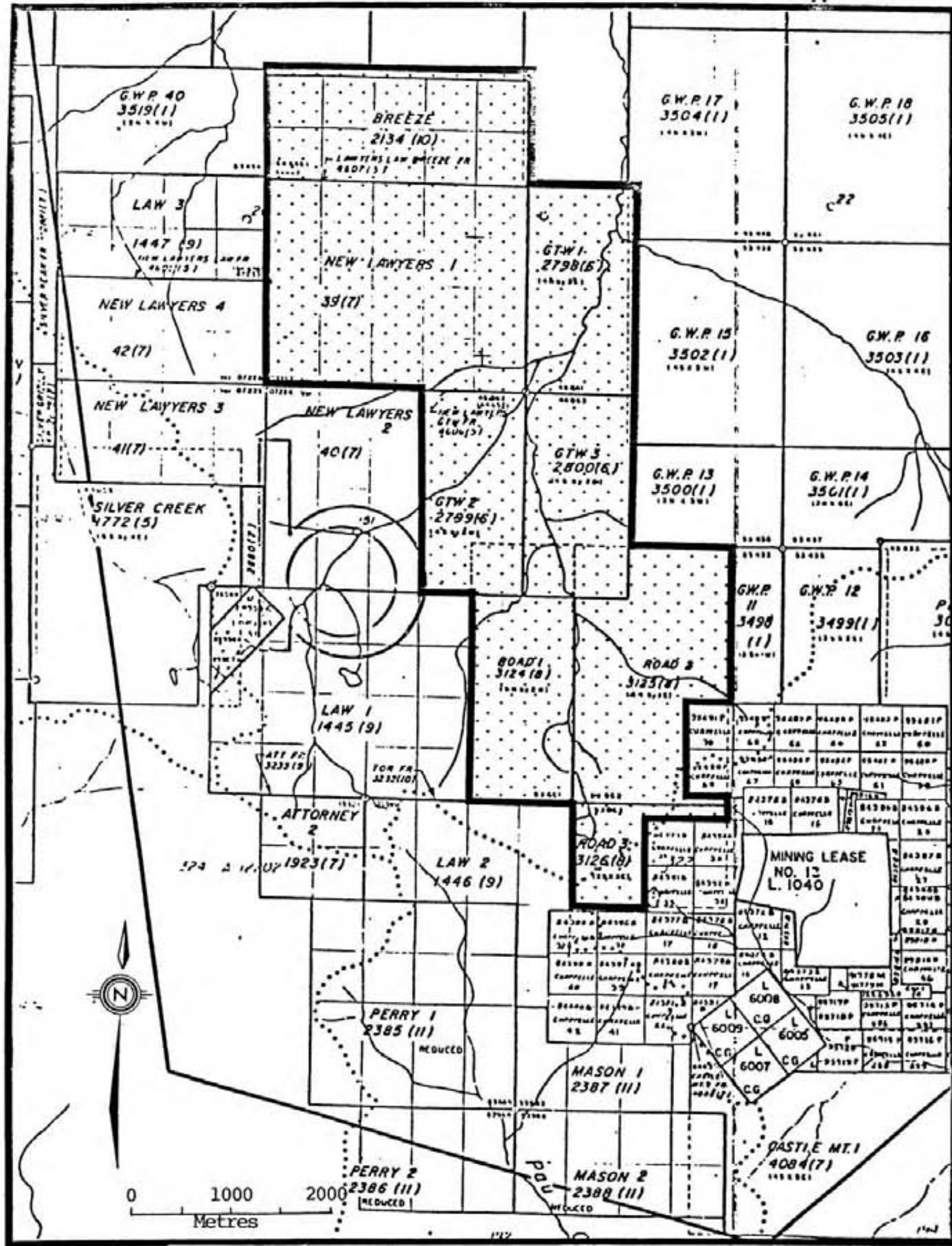
57°
30'

57°
15'

127°
15'

127°
00'

SEREM LTD.	
PROJECT	LAWYERS
TITLE	BREEZE CLAIM
	LOCATION MAP
DATE: SEPT 83	DATA:
NTS: 94 E	DRAWN: MS
SCALE: 1:250,000	CHECKED:
	FIGURE



Location of Lawyers #1 Claim Group
 N.T.S. 94E/6E September 1983

FIGURE 2.

RESULTS

Diamond drill hole 83-1 intersected five principal lithological units and some gold-silver bearing chalcedony-quartz breccia and veinlets.

Two pyroclastic volcanic rock types are identified as variably fragmented quartz andesite crystal tuffs and trachyte crystal tuffs. The trachyte consists of mixed potassic and plagioclase feldspar phenocrysts in a similarly composed groundmass. Grain size varies from aphanitic to coarse lapilli. The andesite unit is characterized by fine-grained quartz-eyes with plagioclase phenocrysts and ground mass.

An epiclastic volcanogenic greywacke is composed of variably reworked trachyte crystal tuff material. An aphanitic to fine-grained chocolate brown tuff unit of uncertain composition completes the volcano-sedimentary package of rocks. A late stage green andesite dyke was intersected at 242.2 metres.

Precious metal values (argentite, electrum, native silver, minor tetrahedrite and minor native gold) occur in chalcedony-quartz breccia zones and veinlets. Alteration of the surrounding country rocks is restricted to very narrow zones of argillic alteration which surround the chalcedony breccia and veinlets. Argillic alteration consists mainly of various clay minerals and sericite.

Detailed geology and assays are presented in the attached drill log. The geology of the Lawyers #1 group is shown in Figure 3.

Richard Stammers

CERTIFICATE OF QUALIFICATIONS

I, MICHAEL STAMMERS, of Port Coquitlam, British Columbia, hereby certify that:

1. I am a geologist employed by Serem Ltd. of 300 - 535 Thurlow Street, Vancouver, B.C., V6E 3L2.
2. I hold a B.A. degree in geology and geography from McMaster University, Hamilton, Ontario.
3. I have worked in geology and mineral exploration in the Yukon Territory, Northwest Territories, and British Columbia for 10 years.
4. I am the author of this report and the work described in this report was carried out under my supervision.
5. I have no financial interest in the claims covered by this report or in Serem Ltd.

Vancouver, B.C.
September 1983



Michael Stammers,
Geologist.

STATEMENT OF EXPENDITURESWages - Field

June 29, 30, 1983:

Geologist: M. Stammers 2 days @ \$145.00 x 1.35 \$391.50

June 25, 26, 1983:

Geologist: M. Vulimiri 2 days @ \$157.50 x 1.35 425.25

June 29, 1983:

Student: D. Gilbert 1 day @ \$ 40.00 x 1.35 54.00

- Office

Sept. 22, 23, 1983:

Geologist: M. Stammers 2 days @ \$145.00 x 1.35 391.50

Sept. 23, 1983:

Secretarial/Drafting 150.00

\$ 1,412.25

Drill Expenses - June 25-29, 1983

DDH 83-1

Casing and core drilling:

243.84 m @ \$72.37/m \$17,646.70

(direct cost as per
D.J. Drilling Company Ltd.)

Sperry Sun Tests: 4 @ \$42.00 168.00

Core Storage Facilities (Prorated) 200.00

\$18,014.70

Room and Board - June 25-30, 1983

25 man-days @ \$25.00/man-day

\$ 625.00

Truck Rental and Gas - June 25-29, 1983

5 days @ \$50.00/day

\$ 250.00

Assays

32 samples for Au & Ag @ \$16.50/sample \$ 528.00

Freight charges 35.00\$ 563.00

TOTAL

\$20,864.95

APPENDIX

DRILL LOG AND ASSAYS, D.D.H. 83-1

SEREM LTD.

DIAMOND DRILL LOG

PROJECT: LAWYERSHOLE NO. DDH 83-1ZONE: AMYTHEST GOLD BRECCIACORE SIZE: START BOLOCATION (N.T.S.) 94E/6ECHANGE -CLAIM: NEW LAWYERS 1DATE STARTED: JUNE 25, 1983DATE COMPLETED: JUNE 29, 1983MINING DIVISION: OMINECALOGGED BY: M.A. STAMMERSCORE STORAGE: SEREM LTD.'s LAWYERS BASE CAMPDATE: JUNE 30, 1983SURVEY INFORMATION

GRID CO-ORDINATES (LAT., LONG.) _____

TOTAL LENGTH 243.84 metresGRID ZONE CO-ORDINATES o+00 N , 1+88 WELEVATION AT COLLAR 1827.65 metres

DIRECTION: DEPTH AZIMUTH INCLINATION

DIRECTION:	DEPTH	AZIMUTH	INCLINATION
	COLLAR	N 74° E	-50½°
	68.88 m	N75½° E	-49½°
	99.36 m	N 76° E	-49½°
	163.37 m	N74½° E	-48½°
	214.27 m	N 74° E	-48°

M.A. Stammers

DEPTH Metres	GRAPHIC LOG	GEOLOGIC DESCRIPTION	DEPTH Metres	SAMPLE NUMBER	ASSAYS			
					Au Oz/ton	Ag Oz/ton		
1		0-3.05 <u>OVERBURDEN AND CASING</u>						
2								
3		3.05-46.80 <u>FRAGMENTAL, TRACHYTE</u>						
4		<u>CRYSTAL TUFFS</u>						
5		- fragments of trachyte in a hematitic matrix						
6		- fragments chloritized and epidotized in places						
7		- feldspars altering to clay and epidote						
8		5.10-5.60 <u>FAULT ZONE</u>						
9		-orientation is 5° to core axis						
10		@7.60 & 7.8 - fragments are heavily chloritized and partially epidotized						
11								
12								
13								
14								
15								
16		15.85-17.68 <u>FAULT ZONE</u>						
17		- orientation is 2° to core axis						
18		- dominant fractures are 110° & 53° to core axis						
19		18.4-18.6 <u>MINOR FAULT ZONE</u>						
20		- orientation is 3° to core axis						

MS

DEPTH Metres	GRAPHIC LOG	GEOLOGIC DESCRIPTION	DEPTH Metres	SAMPLE NUMBER	ASSAYS			
					Au Oz/ton	Ag Oz/ton		
21								
22		@21.8 - matrix is becoming increasingly hematitic						
23		@23.36 - hornfelsed fragment						
24								
25		@24.5 - calcite fracture filling at 26½° to core axis and is at fragment boundary						
26								
27								
28		@27.66 - calcite fracture filling at 25° to core axis						
29		@29.1 - hornfelsed fragment						
30								
31								
32		@32.31 - 4 cm of sparry calcite breccia						
33								
34								
35								
36		@36.7 - Hornfelsed fragment						
37								
38								
39								
40								

MS

DEPTH Metres	GRAPHIC LOG	GEOLOGIC DESCRIPTION	DEPTH Metres	SAMPLE NUMBER	ASSAYS			
					Au Oz/ton	Ag Oz/ton		
41		40.2-40.4 - broken core						
42								
43		@43.9 <u>MINOR FAULT ZONE</u>						
44		- orientation is 20° to core axis						
45								
46		@46.2 <u>MINOR FAULT ZONE</u>						
47		- orientation is 35° to core axis						
48		46.80-69.94 <u>TRACHYTE CRYSTAL TUFFS</u>						
49		- lesser fragments and less hematite						
50								
51		50.5-51.2 <u>FAULT ZONE</u>						
52		- orientation is 35° to core axis						
53		- slickensides @ 51.2m						
54		54.52-54.7 - large fragment with minor feldspar and hornblende phenocrysts, epidotized						
55		- calcite veinlets oriented at 40°, 200° to core axis						
56		@54.9 - calcite fracture fillings						
57								
58		56.1-56.33 <u>FAULT ZONE</u>						
59		- limonite impregnated wall-rock						
60		56.6-56.7 - calcite and associated limonite fracture fillings						

MS

DEPTH Metres	GRAPHIC LOG	GEOLOGIC DESCRIPTION	DEPTH Metres	SAMPLE NUMBER	ASSAYS			
					Au Oz/ton	Ag Oz/ton		
61		@60.4 - calcite fracture fillings						
62								
63		@62.8 - calcite fracture fillings						
64								
65		@65.0 - calcite fracture fillings						
66								
67		67-67.5 - calcite fracture fillings parallel to core axis						
68								
69		69.3-69.94 <u>FAULT ZONE</u> - oriented 40° to core axis						
70								
71		69.94-91.7 <u>VOLCANOGENIC GREYWACKE</u> - gradational contacts - bedding 55° to core axis - coarse and fine-grained - rounded trachyte clasts - exhibits graded bedding - hematitic matrix indicates a O ₂ -rich environment						
72								
73								
74								
75		72.9-73.5 <u>MINOR FAULT ZONE</u> - oriented 10° to core axis						
76								
77								
78								
79								
80								

MS

DEPTH Metres	GRAPHIC LOG	GEOLOGIC DESCRIPTION	DEPTH Metres	SAMPLE NUMBER	ASSAYS			
					Au Oz/ton	Ag Oz/ton		
81								
82								
83		83.3-85.7 - aphanitic, siliceous mud- stone subunit with cherty sections						
84		- hematitic + limonitic matrix						
85		- bedding 45° to core axis						
86		@83.35, 83.5 & 83.8 - calcite fracture fillings						
87		86.9-87.17 <u>FAULT ZONE</u>						
88		- oriented 30° to core axis						
89								
90		89.9-91.7 - broken core						
91								
92		91.7-122.2 <u>FRAGMENTAL, TRACHYTE CRYSTAL TUFFS</u>						
93		- lesser reworking (greywackes)						
94		- hematitic matrix						
95		- abundant limonite						
96		92-93 - broken core						
97								
98		@95.3 - calcite veinlet oriented 10° to core axis						
99								
100								

MS

DEPTH Metres	GRAPHIC LOG	GEOLOGIC DESCRIPTION	DEPTH Metres	SAMPLE NUMBER	ASSAYS			
					Au Oz/ton	Ag Oz/ton		
101		100.12-100.25 - greywacke subunit with graded bedding 55° to core axis						
102								
103								
104								
105		105.2-105.4 - minor broken core						
106		- fracturing 20° to core axis						
107		106.2-106.4 - vuggy calcite fractures						
108		- oriented 20° & 65° to core axis						
109		107.4-107.65 - broken core with fractures oriented 30° to core axis						
110		108.21-110.23 - lesser hematite & limonite						
111		- more massive trachyte						
112		110.5-111.1 - calcite veinlets, 3 sets oriented at 30°, 45° & parallel to core axis						
113		111.1-111.45 - broken core						
114		111.7-111.85 <u>FAULT ZONE</u>						
115		- oriented 45° to core axis						
116		- good fault gouge						
117								
118								
119								
120								

MS

DEPTH Metres	GRAPHIC LOG	GEOLOGIC DESCRIPTION	DEPTH Metres	SAMPLE NUMBER	ASSAYS			
					Au Oz/ton	Ag Oz/ton		
121		121.2-131.2 <u>VOLCANOGENIC GREYWACKE</u>						
122		- as described before but with more sandy detritus						
123		- less hematite, more chlorite						
124		- less fines, cherts & muds						
125								
126								
127								
128		128-128.65 - chlorite, minor epidote						
129		- mixed with hematite indicating the first reducing environment						
130								
131		131.2-173.5 <u>FRAGMENTAL, TRACHYTE</u>						
132		<u>CRYSTAL TUFFS</u>						
133		- as described before but with increase in chlorite plus epidote matrix						
134		- feldspars altering to clay						
135		- calcite fracture fillings every 10 to 20 cm						
136		- isolated K-spar megacrysts						
137		133.2-133.4 - fine hairline fractures of calcite 110°, 140°, 60°, 10° & 340° to core axis						
138		@134.2 - 5mm calcite +chlorite fracture						
139		@136.35 - 8mm calcite veinlet, 70° to c. axis						
140		136.5-139.5 - fragments are smaller in a finer grain matrix						
		138.3-138.65 - chlorite and epidote veinlets						
		- feldspars in fragments are altering to clay						

MS

DEPTH Metres	GRAPHIC LOG	GEOLOGIC DESCRIPTION	DEPTH Metres	SAMPLE NUMBER	ASSAYS			
					Au Oz/ton	Ag Oz/ton		
141		140.9-141.5 - interbed of hematite rich greywacke						
142		@142.5 - broken Kspar megacryst						
143		142.5-146.8 - highly chloritized and epidotized matrix						
144								
145								
146								
147								
148		148.5-148.7 - fracture controlled chlorite + epidote, bordered by calcite and oriented at 50° to core axis, limonite bearing						
149								
150								
151		@148.75 - 10mm wide Kspar megacryst						
152		150.6-158.2 - predominant chlorite plus epidote alteration of matrix						
153		-core is green & + purple						
154		-limonite fractures every 2-5 cm						
155								
156		156.1-156.25 - broken core						
157								
158								
159								
160								

DEPTH Metres	GRAPHIC LOG	GEOLOGIC DESCRIPTION	DEPTH Metres	SAMPLE NUMBER	ASSAYS			
					Au Oz/ton	Ag Oz/ton		
161		160.5-160.6 - calcite breccia formed by 3 fracture sets oriented at 25°, 5° & 90° to core axis						
162		161.7-167.8 - 2 to 10 cm sized fragments						
163		- fine grain hematite matrix						
164		- very little chlorite plus epidote alteration						
165		@164.4 - calcite fracture control microbreccia formed by two fracture sets oriented at 10° & 150° to core axis						
166								
167								
168		167.8-173.5 - lesser hematite matrix						
169								
170								
171								
172		173.0-173.1 <u>CHALCEDONY BRECCIA ZONE</u>						
173		- with rebrecciated chalcedony (5%) & wallrock frags.						
174		- epidote + chlorite alteration						
174		173.5-174.14 <u>FAULT ZONE: 68° to core axis</u>	174					
175		- hematitic gouge		16510	.003	.45		
175		174.14-174.35 <u>CHALCEDONY BRECCIA ZONE</u>	175					
176		- 2% cream to grey chalcody.		16511	.002	.32		
176		174.14-195.15 <u>FRAGMENTAL, LAPILLI, TRACHYTE CRYSTAL TUFFS</u>	176					
177		- lapilli intensely chloritized, oriented 50° to core axis, +/- welding	177					
177				16512	.001	.26		
178			178					
178		- 5-55mm wide alteration envelopes, wallrock frags.		16513	.001	.33		
179			179					
179		to serite + clay near the		16514	.020	3.36		
180			180					
180				16515	.008	1.70		

chalcedony breccia zones

MS

DEPTH Metres	GRAPHIC LOG	GEOLOGIC DESCRIPTION	DEPTH Metres	SAMPLE NUMBER	ASSAYS		
					Au Oz/ton	Ag Oz/ton	
181		178-181.66 <u>CHALCEDONY BRECCIA ZONE</u> - 5-30% chalcedony crosscut by calcite veinlets, rebrecciated wallrock & chalcdy. fragments	181	16516	.010	1.93	
182		- intense silicification in places, dominant fractures 155°, 130° & 20° to c. axis	182	16517	.150	3.12	
183			183	16518	.001	.73	
184		181-181.66 - specular hematite in breccia	184	16519	.070	1.04	
185		181.66-192 - chalcdy. + quartz fracture fillings every 5-10 cm	185	16520	.003	.77	
186		- alteration envelopes 2-5 cm wide with clay, sericite and hematite	186	16521	.004	.94	
187		185.6-185.75 - pyrite fracture fillings oriented 10° to c. axis	187	16522	.015	.57	
188		@185.7 - chalcedony fracture fillings with amethyst centres	188	16523	.130	1.20	
189		@188.7 - as above (185.7m)	189	16524	.001	.60	
190			190	16525	.001	.44	
191		@191.33 - 2cm wide chalcdy. veinlet with amethyst centre oriented 40° to core axis	191	16526	.001	.30	
192		192-192.55 <u>CHALCEDONY BRECCIA ZONE</u> - cream to grey to dark grey to reddish brown chalcdy.	192	16527	.001	1.10	
193		- 20 to 40% chalcedony	193	16528	.650	14.95	
194		192.55-193.1 <u>CHALCEDONY BRECCIA ZONE</u> - 1% chalcdy., limonite matrix	194	16529	.001	.80	
195		193.1-195.15 - chalcdy. + quartz veinlets every 10-20 cm, crosscut by calcite-sericite-hematite veinlets	195	16530	.010	1.61	
196			196	16531	.007	5.05	
197		195.15-200.6 <u>APHANITIC CHOC. BROWN TUFF</u> - a few feldspar phenocrysts	197	16532	.022	2.94	
198		- upper contact gradational	198	16533	.010	1.74	
199		- lower contact brecciated with chalcdy. veinlets and microbreccias every 5-20 cm	199	16534	.029	1.50	
200			200	16535	.001	1.30	

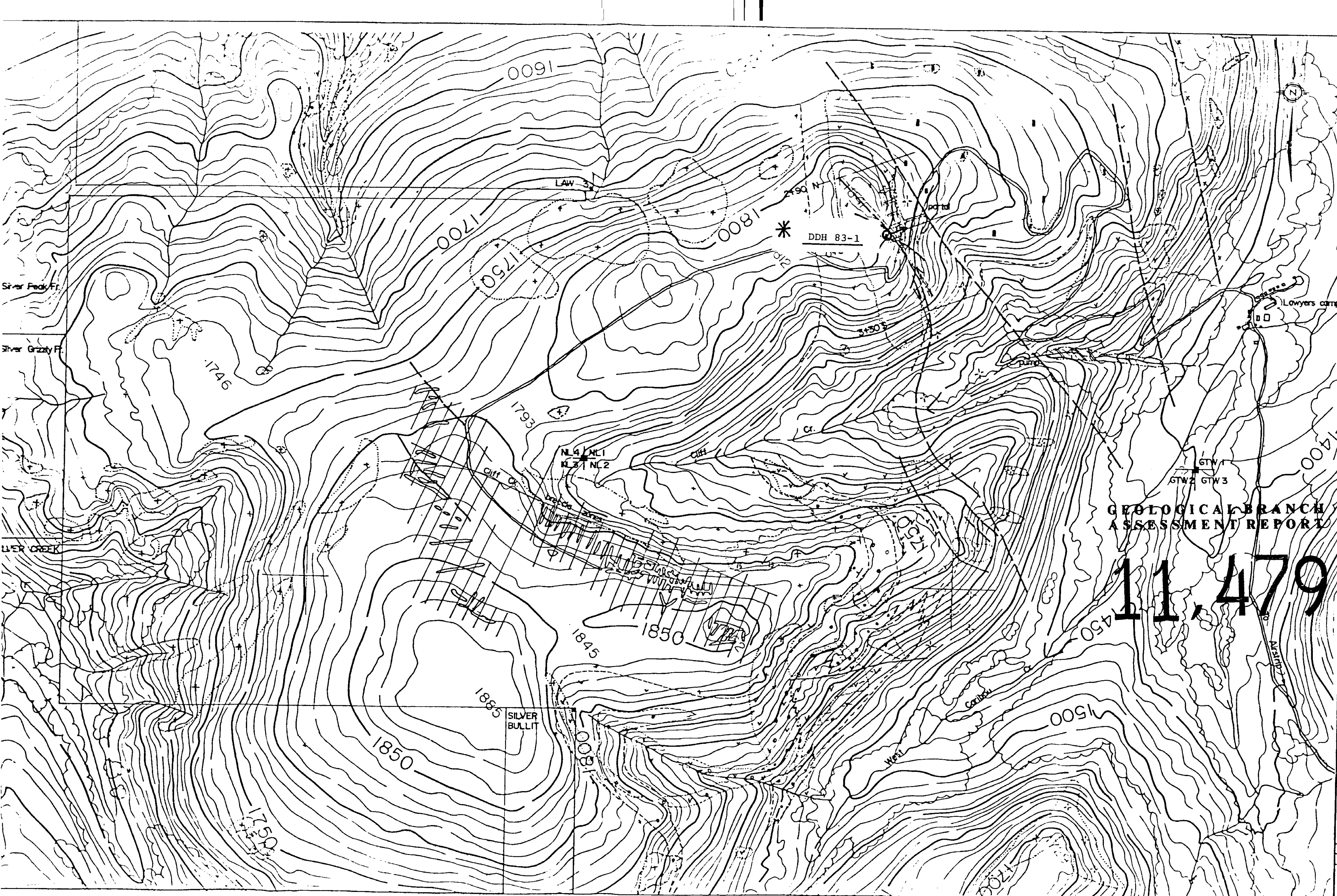
DEPTH Metres	GRAPHIC LOG	GEOLOGIC DESCRIPTION	DEPTH Metres	SAMPLE NUMBER	ASSAYS			
					Au Oz/ton	Ag Oz/ton		
201		200.6-204.35 <u>CHALCEDONY BRECCIA ZONE</u> - with quartz + hematite - 1 to 5% chalcedony	201	16536	.092	2.80		
202		- choc. brown tuff + quartz andesite fragments	202	16537	.032	1.37		
203		- crosscut by sparry calcite veinlets	203	16538	.009	3.30		
204		204.35-243.84 <u>QUARTZ ANDESITE CRYSTAL TUFF: millimetric qtz eyes</u>	204	16539	.091	1.94		
205		-qtz/chalcdy veinlets every 10 to 20 cm crosscut by calcite-hematite veinlets	205	16540	.017	.92		
206		- feldspar phenocrysts to clay, bleached wallrock alteration (clay +sericite) around fracture fillings	206	16541	.001	.25		
207		@207.2 - calcite fracture filling oriented 60° to core axis						
209		207.4-207.5 - chalcdy. fracture filling cross cut by calcite vein- lets,sericite centres with chalcdy. veinlets						
211		@208.1 - chalcedony + quartz micro- breccia						
212								
213								
214								
215		@215.25 - sericite +epidote fracture filling oriented at 60° to core axis						
216		216.9-217.5 - fracture control chalcdy. breccia cut by hematite fractures, sericite alt- eration envelopes, minor silicified wallrock, 1% chalcdy., fractures are at 10°,65° & 90° to c. axis						
217								
218								
219								
220								

MS

DEPTH Metres	GRAPHIC LOG	GEOLOGIC DESCRIPTION	DEPTH Metres	SAMPLE NUMBER	ASSAYS			
					Au Oz/ton	Ag Oz/ton		
221		219.5-220.5 - intense clay plus sericite alteration						
222		222.1-222.9 - intense clay+ sericite alteration						
223								
224		224-225.7 - intense clay + sericite alteration						
225								
226								
227								
228								
229								
230		229.7-242 - increasing sericite, phlogopite (?), +/-chlorite +/- clay alteration controlled by fractures						
231								
232								
233								
234								
235		235-238.5 - wallrock is sericitized but not bleached of mafics						
236		- not hematized						
237								
238								
239								
240								

MS

DEPTH Metres	GRAPHIC LOG	GEOLOGIC DESCRIPTION	DEPTH Metres	SAMPLE NUMBER	ASSAYS			
					Au Oz/ton	Ag Oz/ton		
241								
242		242-242.6 - wallrock is intensely cut by hematite veinlets						
243		242.6-243.2 <u>GREEN ANDESITE DIKE</u>						
244		-crushed & chloritized by post dike movement along footwall, oriented at 65° to core axis						
		243.84 <u>END OF HOLE</u>						
		<i>Mike Sammes</i>						



LITHOLOGY

TOODOGGONE VOLCANIC SERIES

	pyroxene basalt and related dykes
	upper andesite crystal tuff
	dacite crystal tuff (probably not related)
trachy-andesite porphyry, consisting of	
	crystal tuff and crystal lapilli tuff
	welded tuff
	pyroclastic flows and breccias
	volcanically-derived greywackes
	lower andesite crystal tuff (green and minor purple in colour, in part with quartz-eye phenocrysts, in part reworked into volcanic greywacke)

**GEOLOGICAL BRANCH
ASSESSMENT REPORT**

11,479

LEGEND

	access road
	outcrop
	geological contact (known, inferred)
	fault (known, inferred)
	adit
	trench
	diamond drill hole 3-MON-08

SEREM LTD.

LAWYERS PROJECT

GEOLOGY
& LOCATION OF DDH 83-1

DATA W/C MS SC MV PT
NTS 92E/6 | DATE MARCH 83

0 500m **3**