83-#604-# 11510
9

ASSESSMENT REPORT

DIAMOND DRILLING
ON THE
LAWYERS #2 GROUP
(Submitted as assessment work
for the Law #1, #2 and #3 Claims)

OMINECA MINING DIVISION

by

MOHAN R. VULIMIRI
MICHAEL A. STAMMERS
and
PETER F. TEGART

LOCATION: N.T.S. 94E/6E
57°16' to 57°26' N Latitude
127°09' to 127°14' W Longitude

OWNER/OPERATOR: SEREM LTD.

DATES WORK PERFORMED: July 7-9, 12-16, 18-20, 1983
August 3, 4, 1983

DATE OF REPORT: October 1983

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INTRODUCTION

The Law #1 (20 units), Law #2 (12 units) and Law #3 (8 units) claims are located between 57°16' and 57°26' N Latitudes, and between 127°09' and 127°14' W Longitudes in the Toodoggone River map sheet area, N.T.S. 94E/6E, Omineca Mining Division (Fig. 1 and 2). Access to the property is by plane from Smithers to Sturdee Airstrip, a distance of 280 kilometres, and from Sturdee Airstrip to the property by 17 kilometres of a 4 x 4 gravel tote road.

Law #1 and Law #2 claims are located on a high undulating plateau above treeline. Elevation ranges from 1600 to 1820 metres above sea level. Law #3 is situated on steep terrain with elevation ranging from 1475 to 1700 metres above sea level.

The Law #1, #2 and #3 claims are 100% owned by Serem Ltd., and form part of the Lawyers #2 Group. This Group consists of the following claims:

Claim Name	No. of Units	Record No.
NEW LAWYERS 2	12	40
NEW LAWYERS 3	8	41
NEW LAWYERS 4	8	42
LAW #1	20	1445
LAW #2	12	1446
LAW #3	8	1447
ATTORNEY 2	4	1923
TOR FR.	1	3232
ATT. FR.	1	3233
NEW LAWYERS LAW FR.	1	4605

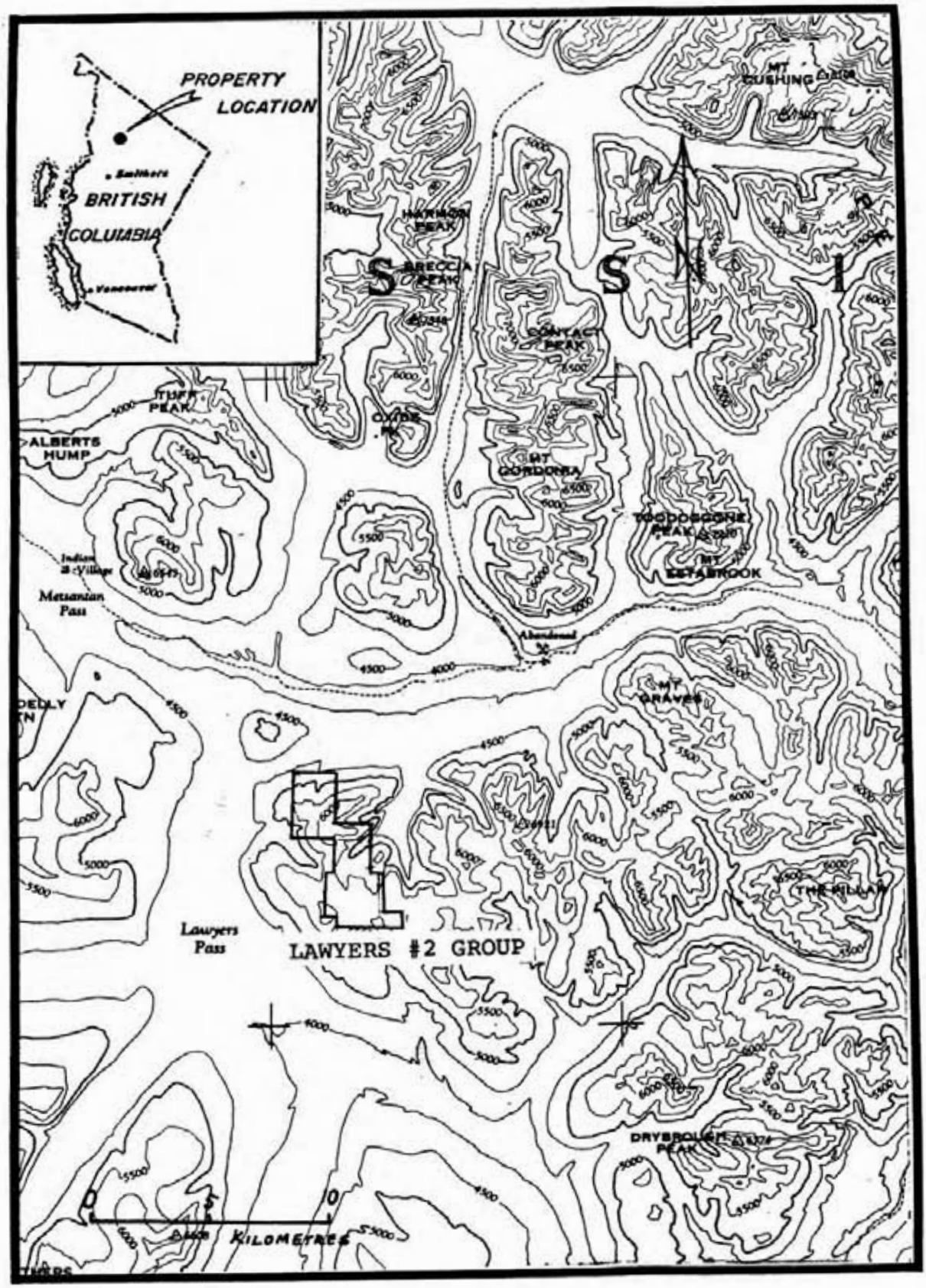


Fig. 1. Location Map.

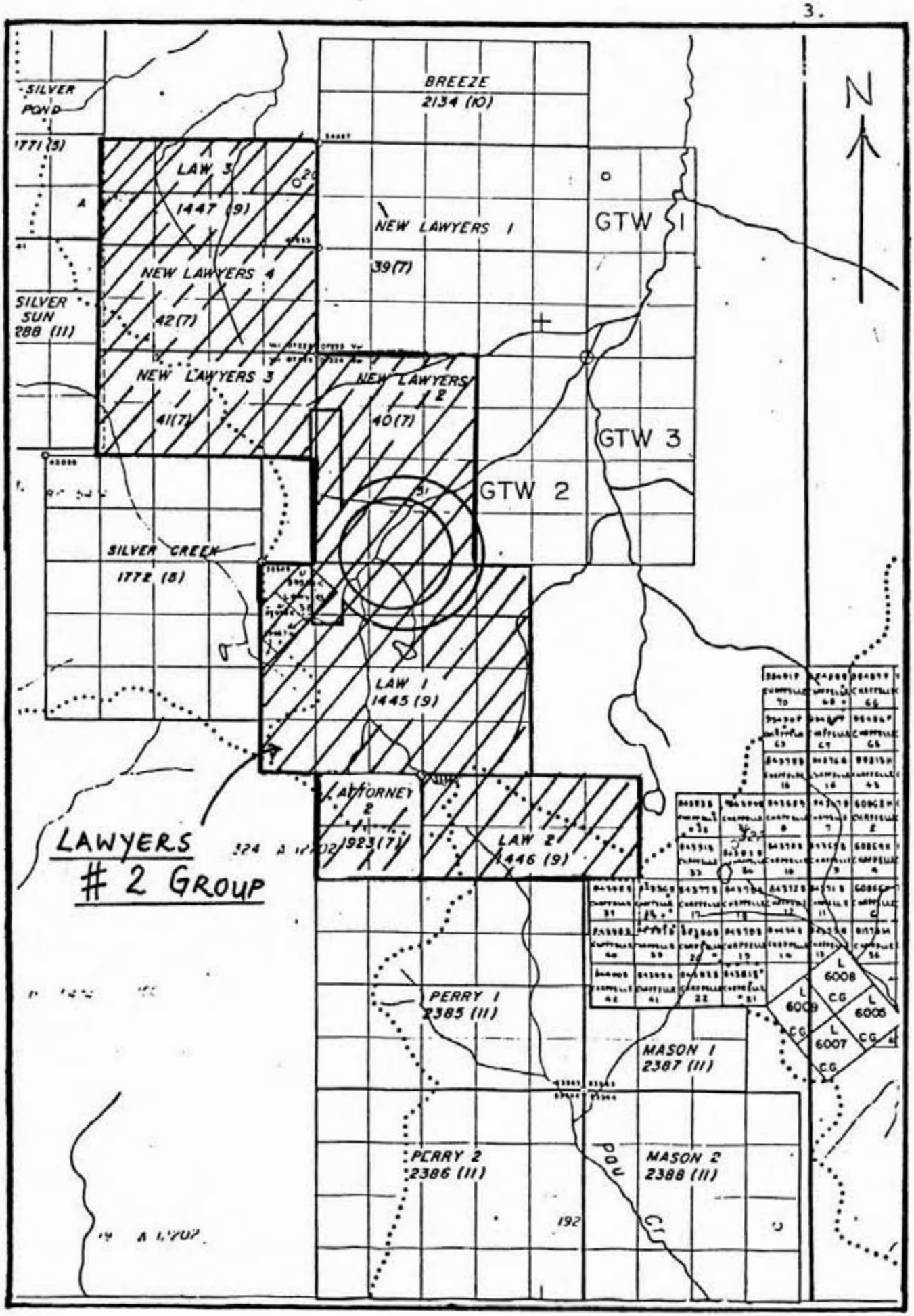


Fig. 2. Claims Map

Previous work carried out by Serem Ltd. on the Lawyers #2 Group consists of extensive trenching, geochemical soil and rock sampling, and geological mapping (1980-1982). Magnetometer surveys and geochemical silt sampling were carried out on the Attorney 2 claim in 1980 and 1981. Kennco Explorations drilled and trenched interesting areas on the New Lawyers 2 and 3 claims in 1974 and 1975.

In 1983, Serem Ltd. performed extensive diamond drilling, trenching and detailed geological mapping on the New Lawyers 2 and 3 claims. This report includes 8 drill holes, 3 drill holes on the Cliff Creek Zone and 5 on the Duke's Ridge Zone. Drill Holes 83-CC-1 and 83-CC-2 were logged by Mohan R. Vulimiri and Michael Stammers; 83-CC-8, 83-DR-1 and 83-DR-2 by Mohan R. Vulimiri; 83-DR-3 and 83-DR-4 by Peter F. Tegart; and 83-DR-6 by Peter F. Tegart and Mohan R. Vulimiri. The core from all the drill holes was assayed by Min-En Laboratories of North Vancouver, B.C.

The location of the drill holes is given below, and in Figures 3 and 4. The location of grids is presented in Figure 5.

Drill Hole	Cliff Creek Grid	Duke's Ridge Grid
83-CC-1	1+25 N : 0+13.8 W	
83-CC-2	1+50 N : 0+ 7.2 W	
83-CC-8	2+1.5N : 0+55.5 W	
83-DR-1		4+80 E : 1+00 S
83-DR-2		4+50 E : 1+16 S
83-DR-3		4+80 E : 1+46 S
83-DR-4		3+00 E : 0+76 S
83-DR-6		4+20 E : 1+42 S

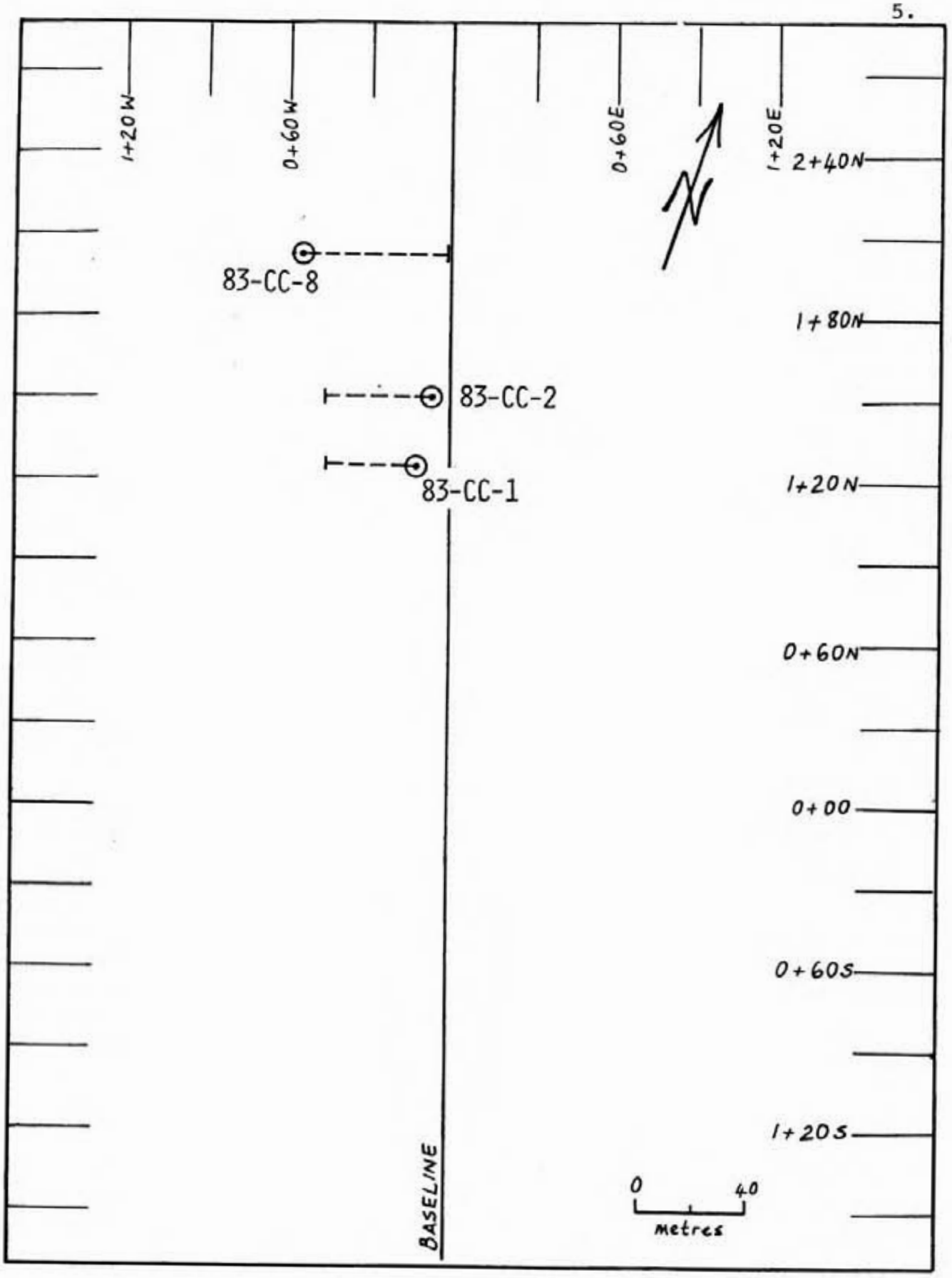


Fig. 3. Location of Drill Holes, Cliff Creek Grid, on Cliff Creek Zone.

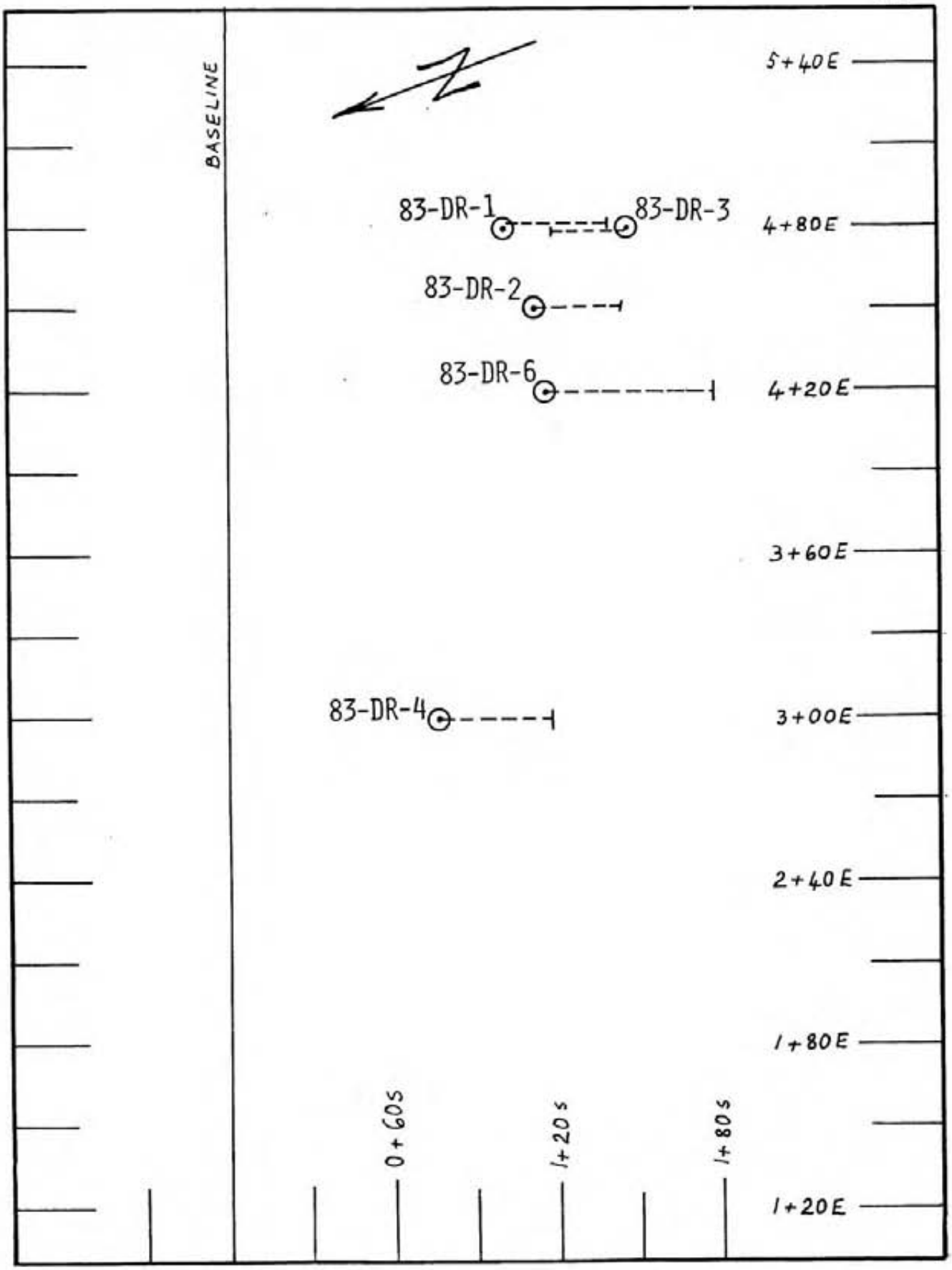


Fig. 4. Location of Drill Holes, Duke's Ridge Grid, on Duke's Ridge Zone.

RESULTS

Drill Holes 83-CC-1, 83-CC-2 and 83-CC-8 were located to test the Cliff Creek Zone along strike and at depth. Argentite, electrum, native silver, and minor native gold, with minor sphalerite, galena, and chalcopyrite are present in chalcedony-quartz breccia zones and stockwork veins. The breccia zones and veins are emplaced in and cross cut a pyritiferous fragmental andesite crystal tuff. The mineralized breccia zones and veins are intimately associated with argillic alteration zones consisting of various clay minerals $\pm$ sericite $\pm$ limonite $\pm$ goethite $\pm$ hematite and $\pm$ manganese oxides. The propylitic alteration zone (chlorite $\pm$ calcite $\pm$ epidote) is peripheral to the argillic zone.

Drill Holes 83-DR-1, 83-DR-2, 83-DR-3, 83-DR-4 and 83-DR-6 were located to test the Duke's Ridge Zone along strike and at depth. The mode of occurrence of mineralization and mineralogy is similar to that of the Cliff Creek Zone. The chalcedony breccia zones and stockwork veins cut across south-dipping pyritiferous andesite crystal tuffs, and interbedded aphanitic tuffs and volcanogenic greywacke layers.

Detailed geology and assays are presented in the drill logs appended. Geology of the Lawyers #2 Group is shown in Figure 5.

CERTIFICATE OF QUALIFICATIONS

I, Mohan R. Vulimiri, certify that:

1. I am a geologist, employed by SEREM Ltd.

2. I am a graduate with a Master of Science degree in Economic Geology from the University of Washington.

3. I have been involved in mineral exploration in British Columbia since 1970 and have acted in responsible positions since 1974.

4. I have no financial interest, either direct or indirect, in the property.

Mohan Vulimiri

Vancouver, B.C.

Mohan R. Vulimiri,
Geologist.

CERTIFICATE OF QUALIFICATIONS

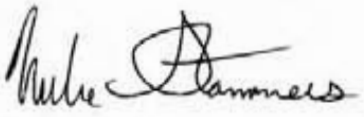
I, Michael Stammers, of Port Coquitlam, British Columbia, hereby certify that:

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 have no financial interest in the claims covered by this report or in SEREM Ltd.



Vancouver, B.C.

Michael Stammers,
Geologist.

CERTIFICATE OF QUALIFICATIONS

I, Peter F. Tegart, of North Vancouver, 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.Sc. degree in geology from the University of British Columbia, Vancouver, B.C.

3. I have worked in geology and mineral exploration in the Yukon Territory, Northwest Territories, and British Columbia for 20 years.

4. I have no financial interest in the claims covered by this report or in Serem Ltd.

Peter Tegart

Vancouver, B.C.

Peter F. Tegart,
Geologist and
Western Manager.

STATEMENT OF EXPENDITURES

Wages - Field July 7-9, 12-16, 18-20, Aug. 3, 4, 1983:			
Geologist: M. Vulimiri	10 days @ $157.50 x 1.35	$2,126.25	
Geologist: M. Stammers	5 days @ $145.00 x 1.35	978.75	
Manager: P. Tegart	8 days @ $250.00 x 1.35	2,700.00	
Core splitter:			
G. Fearnside	2 days @ $110.00 x 1.35	297.00	
- Office Oct. 14, 18, 1983			
Geologist: M. Vulimiri	2 days @ $157.50 x 1.35	425.25	
Secretarial/Drafting		300.00	
			$ 6,827.25
Core Drilling July 7-9, 12-16, 18-20, Aug, 3, 4, 1983:			
(Direct cost as per D.J. Drilling Company Ltd.)			
DDH 83-CC-1	44.50 m @ $72.37/m	$3,220.47	
83-CC-2	60.96 m @ $72.37/m	4,411.68	
83-CC-8	82.90 m @ $72.37/m	5,999.47	
83-DR-1	59.13 m @ $72.37/m	4,279.24	
83-DR-2	64.32 m @ $72.37/m	4,654.84	
83-DR-3	41.80 m @ $72.37/m	3,025.07	
83-DR-4	62.20 m @ $72.37/m	4,501.41	
83-DR-6	96.34 m @ $72.37/m	6,972.13	
Sperry Sun Tests:	8 @ $42.00	336.00	
			$37,400.31
Drill Core Assays			
297 samples for Au & Ag @ $16.50/sample		$4,900.50	
Sample shipment charges		325.00	
			$ 5,225.50
Room and Board			
77 man-days (4 drillers, 3 geologists, 1 core-splitter) @ $25.00/man-day			$ 1,925.00
Truck Rental & Gas			
13 days @ $50.00/day			$ 650.00
	TOTAL		$52,028.06

APPENDIX

Drill Logs and Assays

D.D.H. 83-CC-1
D.D.H. 83-CC-2
D.D.H. 83-CC-8
D.D.H. 83-DR-1
D.D.H. 83-DR-2
D.D.H. 83-DR-3
D.D.H. 83-DR-4
D.D.H. 83-DR-6

SEREM LTD. DIAMOND DRILL LOG

PROJECT: LAWYERS
ZONE: CLIFF CREEK
LOCATION (N.T.S.) 94E/6E
CLAIM: NEW LAWYERS 3
MINING DIVISION: OMINECA

HOLE NO. 83-CC-1
CORE SIZE: START BQ
CHANGE —
DATE STARTED: JULY 7, 1983
DATE COMPLETED: JULY 8, 1983
LOGGED BY: MV MS
DATE: JULY 8, 1983

Core stored at Lawyers Main Camp

SURVEY INFORMATION

GRID CO-ORDINATES (LAT., LONG.)
GRID ZONE CO-ORDINATES 1+25N, 0+12½W
ELEVATION AT COLLAR 1817.2 m

TOTAL LENGTH 44.5M

DIRECTION:

DEPTH	AZIMUTH	INCLINATION
COLLAR	257°	-50°
44.5	257°	-48½°

LINE AZIMUTH S78W
WITH 31° DECLINATION

Mohamed Vahidnia
Mike Hammond

DDH 83-CC-1
PAGE 2
0-20M.

DEPTH Metres	GRAPHIC LOG	GEOLOGIC DESCRIPTION	DEPTH Metres	SAMPLE NUMBER	ASSAYS Au Oz/ton	ASSAYS Ag Oz/ton		
1		0 - 3.05 CASING 0 - 44.5 FELDSPAR PORPHYRITIC ANDESITE; HB > CHLORITE - BROKEN PHENOS.; FSPARS STAINED BY HEMATITE - CALCITE VEINLETS; RARE FRAGMENTS.						
2								
3	RECOVERY 63% 3.05-7.32	3.05-7.35 BROKEN CORE; LIMONITE IN PYR. FF, DISSEMINATED PYR. CHALCEDONY + VUGGY QTZ VEINLETS EVERY 10-15 CMS @ 50°+120° TO CA MANGANESE FRACTURES FACES EVERY 5 CMS WALLROCK COMPLETELY BLEACHED TO CLAYS + SERICITE	3					
4			50% 4	5504	.002	.03		
5			5					
6			80% 6	5505	.004	.01		
				5506	.010	.02		
7	RECOVERY 100% 7.32-10.36	7.25-34.6 CHALCEDONY + QUARTZ BRECCIA ZONE (80-70% SiO_2) - CREAM TO DARK GREY CHALCEDONY FF; X CUT BY LIMONITE FF - WALLROCK HIGHLY ALTERED TO CLAY ± SERICITE & EXTENSIVE SILICIFICATION + MAFICS TOTALLY DESTROYED; 1% PYRITE - GREY CHALCEDONY FF + MATRIX APPEAR TO CARRY ARGENTITE	7	5507	.040	1.34		
8			8	5508	.001	.06		
9		@ 7.6 GREY CHALCEDONY FF @ 50° + 15° TCA 7.8-8.5 EXTENSIVE SILICIFICATION	9	5509	.002	.09		
10	RECOVERY 100% 10.36-11.28	@ 8.5 MINOR GOUGE @ 10 T.C.A. @ 10.2 GREY CHALCEDONY (CREAM TO GREY BROWN) CUT BY VUGGY QTZ + WHITE CHALCEDONY VEINLETS WITH ?#2! FILLED IN THERE + ARGENTITE	10	5510	.007	.63		
11		@ 10.3 VUGGY QTZ + MANGANESE VEINLET @ 11.28 LIMONITE + MANGANESE FF.	11	5511	.001	.15		
12	RECOVERY 85% 11.28-13.41		12	5512	.003	.23		
13	RECOVERY 95% 13.41-15.54	@ 13.7 LIMONITE + MANG FF. @ 13.8 GREY CHALCEDONY VEINLET AS 10.2	13	5513	.002	.18		
14		@ 14.1 VUGGY QUARTZ VEINLETS. @ 14.9-16 BROKEN CORE	14	5514	.002	.30		
15	RECOVERY 95% 15.54-18.9	@ 15.54 ELECTRUM	15	5515	.010	.41		
16		@ 16.2 LIMONITE FF & VUGGY QUARTZ VEINLETS	16	5516	.002	.20		
17		17.3-17.8 AS K-2	17	5517	.014	.29		
18	RECOVERY 93% 18.9-21.64	18.6-18.8 WHITE CHALCEDONY WITH 90% SiO_2, X CUT BY GREY CHALCEDONY FF	18	5518	.019	.56		
19			19	5519	.007	.31		

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DDH 83 CC1
PAGE 3
20-40M

48. 216
20
60 190
82 210

DEPTH Metres	GRAPHIC LOG	GEOLOGIC DESCRIPTION	DEPTH Metres	SAMPLE NUMBER	ASSAYS Au Oz/ton	ASSAYS Ag Oz/ton		
		20-20.2 BROKEN CORE & LIMONITE FF		5520	.010	.33		
21	RECOVERY 80% 21.64-24.38	21.15-22.3 BROKEN CORE	21	5521	.006	.24		
22			22	5522	.001	.17		
23			23	5523	.007	.64		
24	RECOVERY 94% 24.38-26.52	24-25.2 BROKEN CORE 24.1-24.3 90% CHALCDNY	24	5524	.156	6.90		
25		25.2 FAULT (MEDIUM)	25	5525	.010	.48		
26	RECOVERY 100% 26.52-28.35		26	5526	.060	3.28		
27		@27.5-27.9 CHALCDNY MATRIX CUT BY GREY CHALCDNY FF.	27	5527	.235	16.80		
28	RECOVERY 86% 28.35-29.57		28	5528	.029	1.35		
29		29-29.9 BROKEN CORE	29	5529	.096	4.48		
30	RECOVERY 100% 29.57-31.7	30.6 MINOR FAULT ZONE @ 45° T.C.A. 30.6-31.0 GREY TO CREAM CHALCDNY MATRIX, ARGENTITE	30	5530	.138	4.55		
31	RECOVERY 32% 31.7-33.22	31.6-35.4 BROKEN CORE, FAULT ZONE, RECOVERY ~50%	31	5531	.125	5.30		
32			32					
33	RECOVERY 22% 33.22-34.14		REC 50% 33	5532	.082	4.38		
34	RECOVERY 50% 34.14-35.36	34.8-35.4 MAJOR FAULT; 50° TCA; FAULT GOUGE.	34					
35	RECOVERY 90% 35.36-36.27	35.5-44.5 Hb-FSPAR PORPHYRITIC ANDESITE - 'FRESH' ROCK, MINOR CHLOR	35	5533	.002	.27		
36	RECOVERY 100% 36.27-36.88	36.7-37.2 BROKEN CORE + LIMONITE FF	36	5534	.030	1.08		
37			37	5535	.001	.10		
38			38	5536	.001	.13		
39			39	5537	.085	1.98		

DDH 83-CC-1
PAGE 4
40 - 44.5

DEPTH Metres	GRAPHIC LOG	GEOLOGIC DESCRIPTION	DEPTH Metres	SAMPLE NUMBER	ASSAYS Au Oz/ton	ASSAYS Ag Oz/ton		
41		40.8 - 44.5 CALCITE + CLAY FF & CHLORITIZED MATRIX						
42		41.9 - 42.2 MAJOR FAULT @ 45° T.C.A.						
43								
44		44.15 - 44.3 MINOR CHALCOPY + CALCITE MICROBXIA @ 65° TCA.						
	END OF HOLE	44.5 END OF HOLE						

Johan Vahrmeer
Mike Stammers

SEREM LTD. DIAMOND DRILL LOG

PROJECT: LAWYERS

ZONE: CLIFF CREEK

LOCATION (N.T.S.) 94E/6E

CLAIM: NEW LAWYERS 3

MINING DIVISION: OMINECA

HOLE NO. 83-CC-2

CORE SIZE: START BQ

CHANGE —

DATE STARTED: JULY 8 1983

DATE COMPLETED: JULY 9 1983

LOGGED BY: MS MV

DATE: JULY 9 1983

Core stored at Lawyers Main Camp

SURVEY INFORMATION

GRID CO-ORDINATES (LAT., LONG.) 1

GRID ZONE CO-ORDINATES 1+50N, 0+07W

ELEVATION AT COLLAR 1813.0 m

TOTAL LENGTH 60.96

DIRECTION:

DEPTH	AZIMUTH	INCLINATION
COLLAR	255°	-50°
60.96	255°	-50°

Michael Valiquette
Mike Stammers

MHL has a copy

DDH 83 CC2
PAGE 2
0 - 20M

DEPTH Metres	GRAPHIC LOG	GEOLOGIC DESCRIPTION	DEPTH Metres	SAMPLE NUMBER	ASSAYS Au Oz/ton	ASSAYS Ag Oz/ton	ASSAYS RECOVERY %	
		0-3.05 CASING						
		3.05 – 5.7 BROKEN CORE, LIMONITE FF, MINOR CLAY ALTERED ANDESITE MINOR MANGANESE FF		5538	.001	.17	3.05-4.88 71%	
				5539	.001	.03		
		5.7 - 10.5 CHALCEDONY + VUGGY QTZ VEINLETS + FFs EVERY 2-10 CMS LIMONITE FFs 30-50CMS IN CLAY ALTERED ANDESITE MAFICS COMPLETELY DESTROYED		5540	.001	.04	4.88-6.71 100%	
				5541	.001	.12	6.71-9.75 84%	
				5542	.001	.06		
				5543	.001	.13		
		10.5 – 13 CHALCEDONY VARIES FROM 30-50%		5544	.030	1.39	9.75-11.58 100%	
		11.6 - 11.75 BANDED CHALCDY & VUGGY QTZ COATED & MANG OXIDE 40° TO CA FOR CHALCDY; QTZ 50° TO CA; LIMONITE @ 20° TO CA		5545	.018	2.32		
		10.5-53 CHALCEDONY BXIA ZONE; VUGGY QUARTZ, LIMONITE + MANGANESE FF; CHALCDY IS CREAM TO WHITE CUT BY GREY TO DARK GREY CHALCDY; SILICIFIED WALLROCK IN PLACES 12 DESSEMINATED PYRITE; VISIBLE GOLD, ELECTRUM + ARGENTITE AND IS ASSOCIATED WITH DARK GREY CHALCDY, MINOR CALCITE FF BXIA ZONE APPEARS TO BROKEN + SHATTERED BY POST MINERAL FAULTS		5546	.003	.70	11.58-14.02 88%	
				5547	.002	.74		
				5548	.026	.52		
				5549	.002	.40	14.02-17.07 100%	
				5550	.002	.74		
		16.2-16.5 30% GREY CHALCEDONY		6801	.079	6.85		
				6802	.027	.78	17.07-20.12 97%	
		18-22.2 BROKEN CORE & LIMONITE FF + STAINED WALLROCK, CHALCDY FF EVERY 2-5 CMS		6803	.010	.73		
				6804	.001	.08		

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DDH 83 CC 2
PAGE 3
26-40m

195

(83)
155
35
40

DEPTH Metres	GRAPHIC LOG	GEOLOGIC DESCRIPTION	DEPTH Metres	SAMPLE NUMBER	ASSAYS Au Oz/ton	Ag Oz/ton	RECOVERY	
				6805	.001	.25	20.12-22.25 100%	
21		@21.8 VUGGY QTZ + LIMONITE AFTER PYRITE	21	6806	.001	.13		
22		@22.2 - 22.4 FAULT ZONE @ 15° TO CA	22	6807	.001	.09	22.25-23.77 70%	
		22.4 - 23.1 HIGHLY BROKEN CORE	23	6808	.003	.14	23.77-25.3 82%	
24			24	6809	.002	.10		
25		25.8 LIMONITE VUGGY QUARTZ	25	6810	.001	.14	25.3-26.21 44%	
26		26 - 26.8 HIGHLY BROKEN CORE	26	6811	.003	.09	26.21-29.26 95%	
27		27.0 - 28.5 LIMONITE IN VUGGY QUARTZ + WALLROCK.	27	6812	.002	.12		
28			28	6813	.003	.50		
29			29	6814	.002	.59	29.26-30.48 96%	
30		29.2-29.7 BROKEN CORE	30	6815	.003	.43	30.48-32.31 100%	
31		29.7-29.9 FAULT, GOUGE IS LIMONITE	31	6816	.003	.28		
		29.9 - 30.35 LIMONITE STAINED ROCK	32	6817	.010	1.25	32.31-34.14 100%	
32		30.3 - 30.9 DK. GREY CHALCEDONY MATRIX + FF; MINOR LIMONITE; 1% DISSEM PYR. FF @ 70°, 20° - 290° TO CA.	33	6818	.002	.66		
		31.7 - 31.9 LIMONITE AS 27-28.5	34	6819	.318	12.80	34.14-34.75 100%	
33		32.15 - 32.4 BROKEN CORE DUE TO PROBABLE FAULT ZONE	35	6820	.003	.47	34.75-36.27 100%	
		32.4 - 32.9 FELDSPARS → SERICITE	36	6821	.005	.55	36.27-39.62 91%	
34		32.9 DK GREY CHALCONY FF & CALCITE CENTRES @ 40° TCA	37	6822	.023	1.62		
		33.9 - 35.2 BROKEN CORE & LIMONITE FFS + IN WALLROCK	38	6823	.002	.70		
35		35.7 - 35.8 LIMONITE IN VUGGY QUARTZ	39	6824	.018	.98	39.62-41.15 92%	
36		36.1 - 36.3 BROKEN CORE	40					
37								
38		38 - 39.2 LIMONITE + HEMATITE STAINED WALLROCK AND IN VUGGY QTZ FF						
39		39.9 - 40.2 BROKEN CORE						

Mahony Vukimir
Mike Timmins

83 CC 2
PAGE 4
40 - 60.96

108 165
(125)
425

DEPTH Metres	GRAPHIC LOG	GEOLOGIC DESCRIPTION	DEPTH Metres	SAMPLE NUMBER	ASSAYS Au Oz/ton	Ag Oz/ton	RECNERY	
41		40.7 FAULT ZONE (MINOR) @ 45° TO CA 40.7 - 41.6 BROKEN CORE WITH LIMONITE FFs	41	6825	.030	2.05		
42		42.4 - 45.9 CREAM TO DK GREY X CUT BY DARKER GREY CHALCDY IN BXIA ZONE; SILICA 60 - 90 %	42	6826	.013	.90	41.15 - 42.36 87%	
43		43 - 44 EXTENSIVE VUGGY QTZ	43	6827	.074	1.60	42.36 - 45.32 100%	
44			44	6828	.028	1.43		
45			45	6829	.031	.84		
46		45.9 - 47.5 20 - 40 % CHALCDY	46	6830	.042	1.29	45.32 - 47.55 93%	
47			47	6831	.030	.97		
48		47.5 - 48.5 60 - 80 % GREY CHALCDY 48 - 48.9 BROKEN CORE	48	6832	.072	2.60	47.55 - 48.77 66%	
49		48.9 - 50.2 EXTENSIVE SILICIFICATION OF WALLROCK	49	6833	.228	5.90	48.77 - 49.99 92%	
50			50	6834	.018	.41		
51		50.7 - 53.1 MINOR SILICIFICATION WITH LIMONITE FFs EVERY 5-15 CMS	51	6835	.012	.48	49.99 - 53.34 97%	
52			52	6836	.033	.76		
53		53.1 - 53.7 FEW CHALCDY VEINLETS, WALLROCK ALTERED TO CLAY + SERICITE	53	6837	.007	.30		
54		53.3 - 53.4 SILICIFICATION OF WALLROCK 53.7 - 53.9 BROKEN CORE WITH MINOR BRECCIA ZONES	54	6838	.021	.23	53.34 - 57.91 93%	
55		54 - 54.2 CHALCDY BXIA ZONE; 40% CHALCDY 54.4 - 55.7 CHALCDY FF EVERY 5-10 CMS, MINOR SILICIFICATION BLEACHED COMPLETELY OF MAFICS	55	6839	.002	.28		
56		55.7 - 60.96 MAFICS ALTERING TO CHLORITE MINOR CALCITE & CHALCDY EVERY 30-50 CMS	56	6840	.012	.24		
57			57	6841	.002	.11		
58			END OF SAMPLING					
59		60.96 END OF HOLE						

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SEREM LTD. DIAMOND DRILL LOG

PROJECT: LAWYERS
ZONE: CLIFF CREEK
LOCATION (N.T.S.) 94E 6E
CLAIM: NEW LAWYERS 3
MINING DIVISION: OMINECA

HOLE NO. 83-CC-8
CORE SIZE: START BQ
CHANGE
DATE STARTED: 3 August 1983
DATE COMPLETED: 4 August 1983
LOGGED BY: M. Vulimiri
DATE: 4 August 1983

Core stored at Lawyers Main Camp

SURVEY INFORMATION

GRID CO-ORDINATES (LAT., LONG.)
GRID ZONE CO-ORDINATES 2+01.5N , 0+55.5W
ELEVATION AT COLLAR 1809.04

TOTAL LENGTH 82.9

DIRECTION:

DEPTH	AZIMUTH	INCLINATION
COLLAR	70°	-50°
82.9	70°	-49.5°

M. Vulimiri

83-CC-8 Page 1 of 6

DEPTH Metres	GRAPHIC LOG	GEOLOGIC DESCRIPTION	DEPTH Metres	SAMPLE NUMBER	ASSAYS Au Oz/ton	ASSAYS Ag Oz/ton		
		0 - 4.57 CASING						
		4.57 – UPPER ANDESITE UNIT: FSPAR-HB PORPHYRY CRYSTAL TUFF CHLORITIC MATRIX; OCCASIONAL FSPAR PHENO TO SERICITE OR CLAY LIMONITE ± MANGANESE FRACTURE FACES, OCCASIONAL FRACTURE CALCITE FFS EVERY 5-15CMS 4.57 - 15.2)						
		5.6 - 5.9 MINOR CHALCOPY VEINLETS 20°, 205° TCA SOME DARK GREY CHALCOPY + VERY MINOR OXIATION						
		7.5 - 9.2 BROKEN CORE						
		9.6 MINOR CALCITE HEALED MICROBXIA						
		11.0 CALCITE FF 110° TCA						
		12.3 VUGGY QTZ VEINLET 170° TCA						
		13.65 Pyrite-Calcite-Chalcopy Veinlet 25° TCA						
		15.6 MINOR SLIP 315° TCA						
		16.3 FRAGMENT WITH FSPARS COMPLETELY ALTERED TO SERICITE						
		18.1 CHALCOPY VEINLET 050° TCA						

Mohamed Vukhimi

DEPTH Metres	GRAPHIC LOG	GEOLOGIC DESCRIPTION
21		20.1 DRAMATIC INCREASE IN CHALCEDY VEINLETS TO 5-20 CMS (± CALCITE) ALSO APPARENT INCR IN DISSEMINATED PYRITE + SILICA (POSSIBLY) IN MATRIX 20.25 CHALCEDY VEINLETS 10, 50, 70° TO CA
22		21.5 INCREASE IN SERICITE ALTERATION OF FSPAR PHENOS, LESS CHLORITE AND MORE CLAY IN MATRIX
23		23.16 - 23.77 RUBBLY + VERY BROKEN CORE, STRONGLY LIMONITIC
24		
25		24.7 - 24.85 Fault Zone 60° to CA.
26		24.85 - 26.5 Matrix altered to sericite + chlorite. Diss. pyrite. Hematite stained felspars.
27		26.5 - 26.8 limonite & chalcedony fracture fillings
28		26.8 - 29.0. Wall rock silicified. Complete destruction of mafics & dark grey chalcedony fracture fillings. Felspar relicts.
29		29.0 - 32.4 Sericite + clay alt. zone. grey - dark grey fracture fillings every 2-3cm. 1mm stained felspars.
30		
31		30.7 & 31.3 chalcedony fracture filling with calcite centre
32		
33		32.4 - 32.9 limonite fracture fillings & dark grey chalcedony fracture fillings very 3-5 cm.
34		32.9 - 35.3 Wall rock silicified & clay altered dark grey chal. fract. fillings every 2-3 cm. cross cut by calcite fracture fillings.
35		35.3 - 35.6 Chalcedony Breccia Zone
36		Dark grey to cream chalcedony cross-cut by limonite fracture fillings. 40% SiO_2
37		35.6 - 36.4 Broken Core clay + limonite alt zone
38		36.4 - 37.25 Fracture controlled Breccia Zone Wall rock altered to limonite + clay.
39		37.25 - 38.4 Chalcedony Bx. Zone 90% SiO_2 Cream to White chalcedony. limonite fracture fillings
40		

DEPTH Metres	SAMPLE NUMBER	ASSAYS Au Oz/ton	Ag Oz/ton		
26					
27	7473	.013	1.12		
28	7474	.060	3.10		
29	7475	.030	1.68		
30	7476	.002	.43		
31	7477	.011	.33		
32	7478	.007	.32		
33	7479	.010	.40		
34	7480	.063	1.98		
35	7481	.010	.54		
36	7482	.019	.89		
37	7483	.082	4.26		
38	7484	.088	6.25		
39	7485	.019	1.40	Mohawk Variety	
40	7486	.004	.17		

83-CC-8

DEPTH Metres	GRAPHIC LOG	GEOLOGIC DESCRIPTION	DEPTH Metres	SAMPLE NUMBER	ASSAYS Au Oz/ton	ASSAYS Ag Oz/ton		
41		38.4 – 39.5 grey chalcedony fracture-controlled breccia. 10°, 60°, 80° to core axis. 10% SiO_2	41	7487	.002	.15		
42		39.5 – 40.6 limonite stained wall rock with chalcedony fracture fillings	42	7488	.008	.31		
43		40.6 – 43.9 Clay ± sericite alt. zone dark grey to grey chalcedony fract. filling every 1–2 cm.	43	7489	.002	.03		
44		43.9 – 45.7 Fracture-controlled chalcedony breccia 10% SiO_2 Vuggy qtz + chalcedony veinlets cross-cut by limonite fractures.	44	7490	.002	.12		
45			45	7491	.006	.16		
46		45.7 – 51.0 Sericite + clay + hematite alt. zone Felspar phenocrysts → clay ± sericite. Chalcedony fracture fillings with sericite envelopes. Minor supergene alt. of felspars.	46	7492	.010	.11		
47			47	7493	.009	.16		
48			48	7494	.017	2.37		
49		50.6 – 51.0 limonite fracture filling cutting across dark grey chalcedony fracture fillings.	49	7495	.003	.03		
50			50	7496	.010	.06		
51		51.0 – 52.4 chlorite alt. zone. Calcite fracture fillings every 3–5 cm.	51	7497	.009	.12		
52		52.4 – 53.8 Clay ± sericite alt. zone chalcedony (grey to dark grey) veinlets 10°, 20°, 60° to core axis cross cut by limonite fractures.	52	7498	.002	.02		
53			53	7499	.007	.11		
54			54	7500	.002	.28		
55		53.8 – 54.1 Fault zone with limonitic gouge 70° to core axis	55	7551	.001	.09		
56		54.1 – 59.2 Sericite ± clay alt. zone	56	7552	.001	.06		
57		57.9–58.1 chalcedony & qtz fracture fillings 5–20 cm. Minor fault zone	57	7553	.001	.85		
58		59.2 – 59.6 Minor fault zone. Limonitic gouge.	58	7554	.003	.43		
59			59	7555	.002	.08	No ham	hutchins
60			60	7556	.001	.05		

DEPTH Metres	GRAPHIC LOG	GEOLOGIC DESCRIPTION	DEPTH Metres	SAMPLE NUMBER	ASSAYS Au Oz/ton	ASSAYS Ag Oz/ton		
61		60.2 – 60.4 Minor bx. zone 10% SiO_2 cross-cut by limonitic fracture fillings	61	7557	.002	.19		
		60.4 – 65.3 Clay alt. zone with minor limonite.		7558	.002	.13		
62		62.6 Chalcedony + quartz veinlets	62	7559	.009	.10		
		63.2						
63			63	7560	.001	.02		
64			64	7561	.003	.27		
65		65.3 – 66.2 Chalcedony Breccia Zone with dark grey chalcedony cut by cream chalcedony. clay-altered fragments.	65	7562	.007	.79		
66			66	7563	.011	.73		
67		66.2 – 68.2 Clay alt. zone, Calcite & chalcedony fracture fillings every 10 – 20 cm.	67	7564	.002	.12		
68			68	7565	.002	.35		
69		68.2 – 69.1 limonite stained wall rock with limonite fractures.	69	7566	.018	.70		
		69.1 – 69.8 Clay altered zone. cream chalcedony fracture fillings every 20 – 30 cm	70	7567	.009	.48		
70			71	7568	.003	.52		
71		69.8 – 70.6 Dark grey & minor cream chalcedony fracture fillings every 2 – 3 cm. upto 20% SiO_2	72	7569	.001	.25		
72		70.6 – 73.4 Fracture-controlled chalcedony breccia zone in hematite + clay alt. wall rock. (dark grey to grey chalcedony).	73	7570	.020	1.93		
73			74	7571	.018	2.78		
74		73.4 – 75.5 Chalcedony Breccia Zone with vuggy qtz, dark grey to cream chalcedony qtz & cream chalcedony cut across dark grey chalcedony. cross-cut by limonite fractures. wall rock fragments altered to clay.	75	7572	.010	3.54		
75			76	7573	.006	.86		
76			77	7574	.001	.55		
77		75.5 – 77.0 chlorite alt. zone with calcite & chalcedony fracture fillings 1 – 2 cm wide.	78					
78			79			Mohsen Vahimiri		
79		77.0 – 78.5 minor sericite + hematite with chalcedony + calcite veinlets every 20 – 30 cm.						
80								

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DEPTH Metres	GRAPHIC LOG	GEOLOGIC DESCRIPTION	DEPTH Metres	SAMPLE NUMBER	ASSAYS			
					Au Oz/ton	Ag Oz/ton		
81		78.5 – 82.9. Chlorite + clay ± sericite + minor hematite with chalcedony (cream to dark grey) and minor calcite veinlets every 20–30 cm. Rock becoming denser.						
82								
83		82.9 End of Hole						

Mohamed Vahimiori

83-CC-8

Page 6 of 6

SEREM LTD. DIAMOND DRILL LOG

PROJECT: LAWYERS

ZONE: DUKES RIDGE

LOCATION (N.T.S.) 94E/6E

CLAIM: NEW LAWYERS 3

MINING DIVISION: OMINECA

HOLE NO. 83-DR-1

CORE SIZE: START B-Q

CHANGE B-Q

DATE STARTED: JULY 12/83

DATE COMPLETED: JULY 13/83.

LOGGED BY: M. VULIMIRI

DATE: JULY 16/83.

Core stored at Lawyers Main Camp

SURVEY INFORMATION

GRID CO-ORDINATES (LAT., LONG.)

GRID ZONE CO-ORDINATES 1+00S, 4+80E

ELEVATION AT COLLAR 1848.39 m

TOTAL LENGTH 59.13 m

DIRECTION:

DEPTH	AZIMUTH	INCLINATION
COLLAR	169°	-50°
59.13 m	169°	-50°

Mohan Vulimiri

DEPTH Metres	GRAPHIC LOG	GEOLOGIC DESCRIPTION	DEPTH Metres	SAMPLE NUMBER	ASSAYS Au Oz/ton	Ag Oz/ton		
		0-4.57 CASING						
4		4.57 - 59.13 Andesite Crystal Tuff in part fragmental, 40% plag phenocrysts, occassional megacrysts of plag., suspended orthoclase? hornblende laths 30%						
7		4.57 - 5.49 - 65% core - recovery.						
8		4.57 - 9.30 - matic to chlorite, hema feldspars, chalcedony fractures						
9		10 - 20 cm apart.						
10		7.7. - 7.8 - 10cm of chalcedony						
11		breccia, cream to grey, chloritic wall fragments, +70°, +45° angles						
12		to core.						
13		9.3 - 15.6 - millimetric calcite fracture fillings 5 - 10cm apart						
14								
15		15.6 - 16.0 - limonitic stained						
16								
17		17.0 - 17.5 - limonitic stained						
18		18.2 - 18.25 - calcite micro-breccia				Mo Lem	Vein	
19								

83-DR-1

DEPTH Metres	GRAPHIC LOG	GEOLOGIC DESCRIPTION	DEPTH Metres	SAMPLE NUMBER	ASSAYS Au Oz/ton	ASSAYS Ag Oz/ton		
21			21					
22			22					
23		23.5 - 28.3 - matics altered to chlorite calcite fracture fillings every 10 - 30 centimeters	23					
24			24					
25			25					
26			26					
27			27					
28		28.3. - 28.5 - limonite stained wallrock fracture 45° To core	28					
29		28.5 - 30.00 - chlorite + sericite dessiminate pyrite 0.5%	29					
30		30.0 - 30.4 - chlorite alteration.	30					
31		30.4 - 30.8 - limonite stained wall	31					
32		30.8 - 33.1 - sericite + chlorite	32					
33		33.1 - 33.7 - bleached matics, limonite stain, relect feldspar phenos chalcedony + qtz fractures 2-5cm	33					
34			34	7101	.002	.27		
35		33.7 - 35.7 - sericite + chlorite, + narrow limonite zones at 33.95 - 34.3, 34.9 35.1,	35	7102	.003	.13		
36			36	7103	.004	.20		
37		34.8 chalcedony fracture, sericite + calcite centers. at 20° to core axis	37	7104	.001	.11		
38		35.65 - 35.75 - chal, hematite, micro breccia with calcite matrix	38	7105	.002	.30	Mohamm Vuhiin	
39		35.7 - 39.3 - bleached matics, sericitization cream + dark grey chalcedony, hematite 1/2 - 1 cm spacing., dessiminate pyrite	39	7106	.001	.44		
			40					

83-DR-1

DEPTH Metres	GRAPHIC LOG	GEOLOGIC DESCRIPTION	DEPTH Metres	SAMPLE NUMBER	ASSAYS Au Oz/ton	ASSAYS Ag Oz/ton		
41		39.3 – 43.9 - Wall rock intensely stained hematite, dark gr. chal + hema fracture fills cutting cream chal cedony, orthoclase altered to sericite, 40% SiO_2	41	7107	.007	.83		
42			42	7108	.002	.94		
43			43	7109	.004	.70		
44		43.9 – 44.1 - chalcedony brx - 60% brecciated by limonite	44	7110	.012	1.20		
45		44.1 – 45.1 - chalcedony fracture fills same as 39.3 – 43.9.	45	17486	.017	2.93		
46		45.1 – 46.4 - chalcedony brx - cream to dark grey – minor silicification up to 90% silica	46	17487	.032	3.28		
47		46.4 – 48.9 chalcedony brx - rebrecciated limonite fractures - up to 50% SiO_2	47	17488	.062	4.21		
48			47.5	7111	.010	.64		
49		48.9 – 50.0 - chalcedony breccia - with limonite wallrock fragments up to 90% SiO_2	48	7112	.002	.41		
50			49	7113	.004	.33		
51		50.0 – 50.7 - limonite wallrock	50	7114	.001	.21		
52		50.7 – 59.13 - matrix intense chloritic chlorite fracture fills 10-20 cm apart., chalcedony + calcite 10 cm. apart, minor sericite + dessiminated pyrite	51	7115	.001	.20		
53			52					
54								
55								
56								
57								
58								
59		59.13 end of hole				Mohamed Mahmoud		

SEREM LTD. DIAMOND DRILL LOG

PROJECT: LAWYERS

ZONE: DUKES RIDGE

LOCATION (N.T.S.) 94E/6E

CLAIM: NEW LAWYERS 2

MINING DIVISION: OMINECA

HOLE NO. 83-DR-#2

CORE SIZE: START B-Q

CHANGE B-Q

DATE STARTED: JULY 13/83

DATE COMPLETED: JULY 14/83

LOGGED BY: M. Vullimiri

DATE: JULY 16/83

Core stored at Lawyers Main Camp

SURVEY INFORMATION

GRID CO-ORDINATES (LAT., LONG.)

TOTAL LENGTH 64.32 m.

GRID ZONE CO-ORDINATES 1+16S, 4+50E

ELEVATION AT COLLAR 1848.86 m

DIRECTION:

DEPTH	AZIMUTH	INCLINATION
COLLAR	167°	-50.0°
64.32	167°	-48.5°

Mohamed Vullimiri

83-DR-2

DEPTH Metres	GRAPHIC LOG	GEOLOGIC DESCRIPTION	DEPTH Metres	SAMPLE NUMBER	ASSAYS Au Oz/ton	ASSAYS Ag Oz/ton		
		0-5.18 m CASING						
		5.18 - 64.32 Andesite Crystal Tuff						
		5.18 - 5.70 - K-spar phenos altered to sericite + clay.						
		5.90 - 6.20 - calcedony brx - brecciated by minor fault zone at 50° to core axes. limonite on both sides of fault.						
		6.2 - 9.4 - mafics to chlorite, calcite hairline fractures 5-10 cm apart						
		9.4 - 9.76 - sericite + chlorite + calcite fracture fillings.						
		9.76 - 10.80 - chlorite						
		10.80 - 11.3 - chlorite + sericite						
		11.3 - 12.2 - hematite fracture fillings 2-5 cm apart.		7116	.001	.04		
		12.2 - 13.6 - wallrock alt to limonite + clay due to fault at 13.7 m, 30° to core axis.		7117	.001	.03		
		13.8 - 14.9 - chalcedony brx zone, cream to grey chal frags, silicified wall rock in hematitic chalcedony matrix		7118	.005	.64		
		14.9 - 16.1 - sericite + hematite + chalcedy fracture fills every 10 cm. pyrite fractures 2-3 cm apart		7119	.015	.73		
		16.1 - 17.9 - limonite fractures + wallrock. minor chalcedony veinlets.		7120	.001	.68		
		17.9 - 25.4 - chlorite alt. walls + fracture		7121	.001	.32		
				7122	.001	.20		
				7123	.001	.10	Mahaux Lukisingh	
				7124	.001	.13		

83-DR-2

DEPTH Metres	GRAPHIC LOG	GEOLOGIC DESCRIPTION	DEPTH Metres	SAMPLE NUMBER	ASSAYS Au Oz/ton	ASSAYS Ag Oz/ton		
				7125	.003	.62		
21			21					
22			22					
23			23					
24			24					
25		25.4 - 32.0 - epidote - chlorite fracture fillings	25					
26								
27								
28								
29								
30								
31		32.0 - 32.6 alteration around veinlet at 32.3						
32		32.3 - (2cm) cream chalcedony micro veinlet, with calcite + hematite						
33		32.6 - 33.1 limonite stained wallrock						
34		33.1 - 53.0 chlorite alt matrix, sericite + clay, k-spar phenos alt to clay + sericite, up to 50% k-spar plagioclase no altered						
35								
36								
37		- calcite and chalcedony fractures 3-4mm wide every 10-20 cm apart.						
38		- disseminated pyrite throughout				Michael Vukmirović		
39		- calcite + chalcedony fractures bordered by hematite.						

83-DR-2

DEPTH Metres	GRAPHIC LOG	GEOLOGIC DESCRIPTION	DEPTH Metres	SAMPLE NUMBER	ASSAYS Au Oz/ton	ASSAYS Ag Oz/ton		
41		- 33.6 - chal: 3cms wide brx. - cream to dark grey. in calcite matrix., hematite in wallrock and matrix, 45° To core						
42		- 41.0 - 41.3 - same type brx						
43								
44								
45								
46								
47								
48								
49								
50								
51			51					
52			52					
53		53.0 - 53.2 chalcedony brx zone - black to dark grey, minor calcite clay + chlorite matrix.	53	7126	.001	.17		
54		53.2 - 59.1 - limonite wallrock chalcedony + qtz fracture fills 2-5cm apart	54	7127	.001	.18		
55			55	7128	.001	.15		
56			56	7129	.084	1.73		
57			57	7130	.038	.80		
58			58	7131	.001	.14		
59		59.1 - 59.3 - chalcedony veinlets	59	7132	.012	.37	Mohawk	Yukon
		59.3 - 59.9 - cream colour chalcedony	60	7133	.003	.40		

DEPTH Metres	GRAPHIC LOG	GEOLOGIC DESCRIPTION	DEPTH Metres	SAMPLE NUMBER	ASSAYS Au Oz/ton	ASSAYS Ag Oz/ton		
		silicified wall rock fragments-cut by calcite fracture fillings		7134	.001	.05		
61			61					
62		60.1 - banded chalcedony - 60.4 - veinlets approx 2 to 3 cm 61.2 - wide, cream to grey, qtz + calcite centers, 30 45° to core axis	62					
63			63					
64		58.2 - 4cm chal, qtz, amethyst + calcite - all within chlorite + hema wallrock.						
		59.5 - chalcedony with chlorite centers						
		64.32 - end of hole						

Mohamad Mahjoori

83 - BR - 2

SEREM LTD. DIAMOND DRILL LOG

PROJECT: LAWYERS
ZONE: DUKE'S RIDGE
LOCATION (N.T.S.) 94E/6E
CLAIM: NEW LAWYERS 2
MINING DIVISION: OMINECA

HOLE NO. 83-DR-3
CORE SIZE: START BQ
CHANGE "
DATE STARTED: July 14, 1983
DATE COMPLETED: July 15, 1983
LOGGED BY: P. Tegart
DATE: July 16, 1983

Core stored at Lawyers Main Camp

SURVEY INFORMATION

GRID CO-ORDINATES (LAT., LONG.)
GRID ZONE CO-ORDINATES 1+465, 4+80 E
ELEVATION AT COLLAR 1857.21 m

TOTAL LENGTH 41.8 m

DIRECTION:

DEPTH	AZIMUTH	INCLINATION
COLLAR	16°	-50°
41.8 m	16°	-51°

Peter Tegart

To Inuc + Don Gully 15/83

83-DR-3 Page 1 of 4

DEPTH Metres	GRAPHIC LOG	GEOLOGIC DESCRIPTION	DEPTH Metres	SAMPLE NUMBER	ASSAYS Au Oz/ton	ASSAYS Ag Oz/ton		
0		0 – 3.66 CASING	1					
1			2					
2			3					
3		3.66 – 11.2	4					
4		Pyroclastic Andesitic Crystal tuff	5	7466	.013	.23		
5		Chalcedony veinlets with minor amethyst and calcite 40° to core axis.	6	7467	.003	.61		
6		4.8 3mm wide, 6.4 2mm wide, 6.8 " 7.1 " } banded chalcedony veinlets	7	7468	.008	.49		
7		7.45 2 cm wide	8	7469	.007	.59		
8		7.8 – 7.9 limonite in wallrock and fractures. Feldspars → clay, hematite, minor chlorite.	9	7470	.002	.20		
9		9.5 1cm wide	10	7471	.009	.93		
10		9.9 "	11	7472	.002	2.81		
11		7.9 – 8.6 minor limonite fractures.	12	7135	.097	10.30		
12		11.1 – 11.3 3 chalcedony veinlets	13	7136	.051	5.60		
13		9.2 – 11.5 Limonite stained wallrock & fractures, feldspars to clay	14	7137	.011	2.32		
14		11.2 – 32.0	15	7138	.001	.15		
15		Aphanitic to fine grained tuff with reworked layers. Aphanitic layer to 21m.	16	7139	.119	2.40		
16		21 – 32 general increase in fragments & lapilli. Some fragments up 15cm at bottom.	17	7140	.004	1.50		
17		Bedding ≈ 60–70° to core axis	18	7141	.152	6.90		
18		11.2 – 32 Hairline fracture fillings of Chalcedony + qtz and minor pyrite with limonite envelopes. limonite fractures cross-cut chalcedony fractures upto 5% silica.	19	7142	.033	3.90		
19			20	7143	.013	5.80		
20								

83 ΔR – 3

P. Teagart

DEPTH Metres	GRAPHIC LOG	GEOLOGIC DESCRIPTION	DEPTH Metres	SAMPLE NUMBER	ASSAYS Au Oz/ton	ASSAYS Ag Oz/ton		
21		21 – 26 Chalcedony Breccia upto 50% Silica fractures 20° to core axis.	21	7144	.008	1.31		
22		22.9 Increase in chalcedony fractures.	22	7145	.072	3.20		
23		24.2 – 25.2 chalcedony breccia with rebrecciated chalcedony fragments. 20% SiO_2	23	7146	.018	1.62		
24			24	7147	.019	1.14		
25			25	7148	.046	2.06		
26		27 – 27.4 chalcedony breccia 20% SiO_2, bleaching % wallrock (mafics), feldspars to clay	26	7149	.011	1.14		
27		27.7 – 28.7 Chalcedony Breccia upto 70% SiO_2	27	7150	.009	.50		
28		Wallrock completely bleached, cream to hematitic chalcedony	28	7151	.010	.99		
29		28.7 – 29.5 limonite stained wallrock with clay.	29	7152	.028	2.03		
30		30.5 – 32 Intense limonite stained wallrock feldspars → clay, mafics totally destroyed.	30	7153	.002	1.24		
31			31	7154	.002	.26		
32		32 – 41.8 Feldspar – Hornblende andesite Crystal tuff.	32	7155	.003	.30		
33			33	7156	.001	.17		
34		32 – 35.6 chalcedony fracture filling and minor calcite fracture 10 – 15% every 2 to 3 cm with increase in silicification from 34.5 to 34.8 (40% SiO_2). 35.1 – 35.6 40% SiO_2. Hematite + chlorite + sericite with chalcedony.	34	7157	.001	.20		
35			35	7158	.021	2.98		
36			36	7159	.002	.33		
37		Sericite + chlorite ∫ bleaching ∫ mafics in wallrock.	37	7160	.001	.12		
38		36.7 10 cm wide alt. zone ∫ Sericite + chlorite, 5 to 10% chalcedony fracture fillings.	38					
39			39					
40			40					

83-DC-3

Peter Tegart

DEPTH Metres	GRAPHIC LOG	GEOLOGIC DESCRIPTION	DEPTH Metres	SAMPLE NUMBER	ASSAYS Au Oz/ton	ASSAYS Ag Oz/ton		
40		37.55 limonite stained wall rock (10 cm wide)						
41		35.6 – 41.8 calcite fracture fillings and minor chalcedony (1mm wide) every 1 to 2 cm.						
42		41.8 End of Hole						

83-DK-3

SEREM LTD. DIAMOND DRILL LOG

PROJECT: LAWYERS

ZONE: DIKES RIDGE

LOCATION (N.T.S.) 94E/6E

CLAIM: NEW LAWYERS 2

MINING DIVISION: OMINECA

HOLE NO. 83-DR-4

CORE SIZE: START B-Q

CHANGE B-Q

DATE STARTED: July 15, 1983

DATE COMPLETED: July 16, 1983

LOGGED BY: P. TEGART

DATE: JULY 18/83.

Core stored at Lawyers Main Camp

SURVEY INFORMATION

GRID CO-ORDINATES (LAT., LONG.)

GRID ZONE CO-ORDINATES 0+76S, 3+00E

ELEVATION AT COLLAR 1834.66 M

TOTAL LENGTH 62.2 m.

DIRECTION:

DEPTH	AZIMUTH	INCLINATION
COLLAR	200°	-50°
62.2 m	200°	-50°

Peter Tegart

To Mtl + Ott. July 25/83

83-DR-4

DEPTH Metres	GRAPHIC LOG	GEOLOGIC DESCRIPTION	DEPTH Metres	SAMPLE NUMBER	ASSAYS Au Oz/ton	ASSAYS Ag Oz/ton		
1			1					
2			2					
3		0-3.7 Casing	3					
4		3.7-62.2 Andesite Crystal Tuff	4					
		3.7-8.75 broken limonitic fractures and wall rock altered feldspars and bleached matics		7161	.002	.18		
5		4.7-5.0 - sericite, minor chlorite, feldspars to clay, Cream to grey chalcedony fractures, vugs, 50% SiO_2	5					
6			6					
7			7					
8		8.75-19.0 - Relatively fresh green to maroon hematitic pyroclastic To brecciated andesites -	8					
9		- minor chalcedony veining cream to grey fracture fillings between 14.0-14.7-15% SiO_2 bleached matics, sericite	9					
10		9.8-10.5 - limonite fractures + wallrock	10					
11			11					
12			12					
13			13					
14			14					
				7162	.003	.32		
15			15					
16			16					
17			17					
18			18					
19		19.0-62.0 - Generally bleached appearance matics to sericite (ph logopite) chlorite feldspars to clay (10-20%)	19					
			20	7163	.002	.26	Peter Tegart	

83-DR-4

DEPTH Metres	GRAPHIC LOG	GEOLOGIC DESCRIPTION	DEPTH Metres	SAMPLE NUMBER	ASSAYS Au Oz/ton	ASSAYS Ag Oz/ton		
21		chalcedony fracture fillings, cream, dark grey variable width, poly brecciated. hematite cut by cream chalcedony, by dark chalcedony. Details as follows.-	20	7164	.006	.39		
22		19.7 - 19.9 - altered mafics and feldspars.	21	7165	.001	.22		
23		20.8 - 21.3 - altered mafics, sericite chalcedony fracture fillings. 1cm thick 4-5cm apart, cream to grey,- 10% SiO_2 - 70° to c.a.	22	7166	.001	.13		
24			23	7167	.004	.10		
25			24	7168	.002	.29		
26		22.7 - 23.5 - Grey chalcedony breccia 30% SiO_2. 45° to core axis chalcedony fragments in siliceous matrix.	25	7169	.001	.37		
27			26	7170	.010	.43		
28		23.9 - 24.1 White cream, dark grey chalcedony breccia 20% SiO_2 45° to core axis	27	7171	.006	.40		
29			28	7172	.030	.87		
30		24.1 - 26.7 Sericite + chalcedony fracture fillings every 5 - 6 cm. 5 - 10% SiO_2 hematite fracture fillings cutting across sericite + chalcedony. Bleached wallrock.	29	7173	.018	.66		
31			30	7174	.008	.18		
32		26.7 - 30.8 strong cream, dark grey chalcedony breccia 70% SiO_2 chalcedony fragments in hematic matrix. Wall rock bleached and altered to clay in part. Calcite fracture fillings cutting across above. millimetric	31	7175	.100	.93		
33			32	7176	.043	1.26		
34			33	7177	.030	.42		
35		30.8 - 32.9 multiple chalcedony fractures with random orientations 20% SiO_2. Bleached wall rock with felspars to clay, minor sericite.	34	7178	.001	.14		
36		32.9 - 55.6 hematite fracture fillings every 3 - 5cm Cream to grey chalcedony fractures every 10cm. Wallrock bleached & mafics, sericite, and clay. relict felspars	35	7179	.001	.11		
37			36	7180	.001	.24		
38			37	7181	.001	.19		
39			38	7182	.002	.35		
			39	7183	.001	.04		
			40					

Peter Tegart

F3-DR-4

DEPTH Metres	GRAPHIC LOG	GEOLOGIC DESCRIPTION	DEPTH Metres	SAMPLE NUMBER	ASSAYS Au Oz/ton	ASSAYS Ag Oz/ton		
41			41	7185	.004	.07		
42			42	7184	.001	.05	Sample numbers doubled -	
				7186	.001	.06		
43			43	7187	.002	.15		
44			44	7188	.013	.50		
45			45	7189	.010	.14		
46			46	7190	.007	.32		
47			47	7191	.053	1.24		
48			48	7192	.003	.63		
49			49	7193	.003	.30		
50			50	7194	.002	.78		
51			51	7195	.010	.76		
52		53.1 – 54.7 General increase in fragments in andesite crystal tuff.	52	7196	.010	.94		
53			53	7197	.021	1.30		
54		55.6 – 57.6 strong cream, dark grey breccia zone, with chalcedony fragments, silica matrix, 15° to core axis. 60% SiO_2, minor seriate wallrock fragments altered to clay	54	7198	.023	1.25		
55			55	7199	.026	1.80		
56			56	7200	.040	3.16		
57		57.6 – 58.3 Hematitic fractures every 10cm, minor millimetric cream chalcedony every 15cm. Bleached wallrock with seriate, relict felspars.	57	7201	.123	9.50		
58			58	7202	.002	.03		
59		58 – 62.1 Decrease in bleaching, minor	59	7203	.002	.02		
			60	7204	.008	.02	Peter Tegart	

DEPTH Metres	GRAPHIC LOG	GEOLOGIC DESCRIPTION	DEPTH Metres	SAMPLE NUMBER	ASSAYS			
					Au Oz/ton	Ag Oz/ton		
		sericite, increase in chlorite & hematite.						
61		Unaltered rock at bottom of hole. Minor						
		chalcedonic veinlets every 30 cm.						
62								
		END OF HOLE 62.2 M						
63								

83-DR-4 Page 5 of 5

Peter Tegart

SEREM LTD. DIAMOND DRILL LOG

PROJECT: LAWYERS
ZONE: DIKES RIDGE
LOCATION (N.T.S.) 94E/6E
CLAIM: NEW LAWYERS 2
MINING DIVISION: OMINECA

HOLE NO. 83-DR-6
CORE SIZE: START B-Q
CHANGE BQ
DATE STARTED: July 17 1983
DATE COMPLETED: July 19 1983
LOGGED BY: M. Vulimiri / P Tegart
DATE: July 21/83.

Core stored at Lawyers Main Camp

SURVEY INFORMATION

GRID CO-ORDINATES (LAT., LONG.)
GRID ZONE CO-ORDINATES 1+16S, 4+20E
ELEVATION AT COLLAR 1846.75 m

TOTAL LENGTH 96.34

DIRECTION:

DEPTH	AZIMUTH	INCLINATION
COLLAR	200°	-50°
96.34	200°	-50°

Mohan Vulimiri

83-DR-6

Page 1 of 6

To NEL from Lundy 85/12/5

DEPTH Metres	GRAPHIC LOG	GEOLOGIC DESCRIPTION	DEPTH Metres	SAMPLE NUMBER	ASSAYS Au Oz/ton	ASSAYS Ag Oz/ton		
		0-3.6 CASING						
		in-situ native pyrite						
		3.6-5.0 - fragmental crystal & feldspar tuff						
		3.6-5.0 - 40% core recovery						
		3.6-6.4 - Chalcedony Brx Zone - 60% cream coloured, bleached matics, clay altered, minor silicification, fractures 50° to core axis.		7247	.016	.42		
		6.4-12.0 - limonite + clay + minor sericite chal fractures fills - 1-2mm, about 3-5cm apart.		7248	.006	.27		
				7249	.008	.22		
				7250	.008	.40		
				7285	.002	.27		
				7286	.001	.27		
				7287	.014	.48		
		12.0-15.5 - limonite stained wall rock minor chlorite, chal fractures + Qtz 50cm apart about 1-2mm thick						
		15.5-17.6 - prominant chlorite						
		17.6-25.2 - limonite + chlorite with minor hematite, vugy qtz + chalcedony veinlets every meter						

Moran Valimiri

83-DR-6

DEPTH Metres	GRAPHIC LOG	GEOLOGIC DESCRIPTION	DEPTH Metres	SAMPLE NUMBER	ASSAYS Au Oz/ton	ASSAYS Ag Oz/ton		
21								
22								
23								
24								
25		25.2 - 50.0 chlorite +in fractures + wall rock, clay alt. feldspars, calcite fractures + minor micro breccias every 5-10 cm.						
26								
27								
28								
29								
30								
31								
32								
33								
34								
35								
36								
37								
38								
39								

Mohamm Vahidnia

83-DR-6

DEPTH Metres	GRAPHIC LOG	GEOLOGIC DESCRIPTION	DEPTH Metres	SAMPLE NUMBER	ASSAYS Au Oz/ton	ASSAYS Ag Oz/ton		
41			41					
42			42					
43			43					
44			44					
45			45					
46			46					
47			47					
48			48					
49			49					
50		50.0 - 51.2 - limonite stained wallrock and fractures	50					
51		51.2 - 52.8 - intense sericite, hairline chalcedony fractures with bleached wall rock and hematite envelopes every 3-5cm. - 40° + 300° to core axis. chalcedony is dark grey	51	7288	.001	.10		
52		52.8 - 53.7 - limonite + sericite, chalcedony fractures 1-2 cm apart.	52	7289	.057	4.39		
53		53.7 - 54.3 - sericite altered wall rock	53	7290	.018	1.35		
54		54.3 - 55.0 - wallrock bleached of mafics, feldspars to clay, limonite in wall rock.	54	7291	.021	.61		
55		54.6 - 54.65 - Cream grey chalcedony 50° c.a.	55	7292	.019	.51		
56		54.3 - 54.5 - black to cream parallel chalcedony to c.a.	56	7293	.003	.40		
57		55 - 58.8 - chlorite + sericite + disseminated pyrite, dark grey chal fractures 5-10 cm	57	7294	.009	.47		
58			58	7295	.010	.49		
59			59	7296	.010	.40	Mohan	Mohan
			60	7297	.017	.72		

DEPTH Metres	GRAPHIC LOG	GEOLOGIC DESCRIPTION	DEPTH Metres	SAMPLE NUMBER	ASSAYS Au Oz/ton	ASSAYS Ag Oz/ton		
61		58.8-59.5 - Blk; Grey-Cem veinlets 2-5cm apart in sericitized wallrock, 45°, 60°, 90° to c.a.	61	7298	.018	.68		
62		59.5-60.3 - Chal Brx Zone - Blk-Degry chalcedony + Qtz, sericitized wall rock.	62	7299	.018	.70		
63		60.3-66.2 - Chalcedony fractures every 10-30 cm, sericite + clay, minor chlorite in wallrock,	63	7300	.006	.48		
64			64	7301	.009	.46		
65			65	7302	.010	.35		
66		66.2-67.4 - Chal fractures every 5-10cm with clay + limonite altered wall-rock.	66	7303	.002	.16		
67			67	7304	no sample received			
68		67.4-68.5 - Chal Brx Zone - 90% SiO2 clay + limonite wall rock frags, minor silicification.	68	7305	.120	8.80		
69			69	7306	.050	13.20		
70		68.5-68.8 - Brx Zone with chalcedony clay alt. wallrock frags in limonite matrix.	70	7307	.017	1.52		
71			71	7308	.019	2.07		
72		68.8-70.8 - chalcedony fractures fills with hematite envelopes in clay + sericit altered wallrock.	72	7309	.029	.82		
73		Amethyst + calcite - 70.9-70.95 at the following - 71.7-71.9 intervals → - 71.95-72.00	73	7310	.007	.57		
74			74	7311	.001	.60		
75		70.8-79.4 - wallrock altered to sericite + clay, minor chlorite, with limonite zones in places, chalcedony fractures with hematite envelopes 10-30 cm apart	75	7312	.017	.21		
76			76	7313	.063	.49		
77			77	7314	.007	.13		
78		79.4-82.3 - chlorite alteration present	78	7315	.002	.24		
79			79	7316	.001	.59	Mohan	Vukmir
				7317	.001	.18		

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DEPTH Metres	GRAPHIC LOG	GEOLOGIC DESCRIPTION	DEPTH Metres	SAMPLE NUMBER	ASSAYS Au Oz/ton	ASSAYS Ag Oz/ton		
81		81.6-81.8 - clial Brx + veinlets of cream to minor grey chalcedony	80	7318	.001	.25		
82		82.8-91.0 - fresh andesite with calcite fracture fillings every 5-10 cm.	81	7319	.002	.47		
83			82	7320	.001	.09		
84			83					
85			84					
88			85					
89								
90								
91		91.0-93.0 - chlorite alt. wallrock with chalcedony fractures fillings every 5cm						
92								
93		93.0-96.34 - calcite fracture fills in chloritized wallrock every 20 cm.						
94								
95								
96		96.34 END OF HOLE						
97								

Mahon Valiquette

83-DR-1

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)

LEGEND

- access road
- outcrop
- geological contact (known, inferred)
- fault (known, inferred)
- adit
- trench

CLIFF CREEK GRID

DUKE'S RIDGE GRID

Silver Peak Fr.

Silver Grizzly Fr.

CLIFF CREEK

SILVER BULLIT

LAW 3

portal

Lowyers camp

pump

GTW 1

GTW 2

GTW 3

Airstrip

1600 1650 1700 1750 1800 1850 1885 1845 1746 1793 1729 1450 1500 1400

SEREM LTD.

LAWYERS PROJECT

GEOLOGY

DATA WJC MS SC MV PT

NTS 92E/6 | DATE MARCH 83 – Oct. 1983

0 500m

FIG. 5