

ASSESSMENT REPORT



GEOLOGICAL EVALUATION REPORT  
ON THE  
CABIN 1 - 18 MINERAL CLAIMS

WATSON LAKE MINING DISTRICT  
YUKON TERRITORY, CANADA

60°40' N 130°30' W  
N.T.S. 105 B-9/105 B-10

FOR  
SEREM LTD.

REPORT BY: M.A. STAMMERS, GEOLOGIST

WORK PERFORMED BETWEEN: July 20, 1981 and March 19, 1982

DATE OF REPORT: MARCH 1982

091010

This report has been examined by  
the Geological Evaluation Unit  
under Section 53 (4) Yukon Quartz  
Mining Act and is allowed as  
representative work in the amount  
of \$ 4,200.

*P. Watson*

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

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1. INTRODUCTION

The Cabin 1-18 mineral claims were staked in 1979 by Serem Ltd. to cover favourable tungsten mineralization and anomalous uranium, tin, fluorine and tungsten geochemistry.

The Cabin claims straddle Cabin Creek (N.T.S. 105 B-9/105 B-10) and are located 123 kilometres northwest of Watson Lake, Yukon (see Figure 1).

Work performed in 1981 included prospecting, night ultraviolet lamping, outcrop sampling, and evaluation of tungsten skarn showings.

Results and interpretation of this work are presented in this report and pertain to the Cabin 1-18 mineral claims.

2. LIST OF CLAIMS (Figure 2)

<u>Claim Name</u>	<u>Record Nos.</u>	<u>Group No.</u>	<u>Expiry Date</u>
Cabin 1-8	YA 36913-920	2282	June 13, 1985
Cabin 9-16	YA 36921-928	2283	June 13, 1985
Cabin 17-18	YA 36929-930	2283	June 18, 1985

3. ACCESS

Access to the Cabin claims during the 1981 field season was provided by float-equipped aircraft from Watson Lake, Yukon to Stoneaxe Lake (138 kilometres to northwest) and thence by Hughes 500 D helicopter 22 kilometres southeast to the property.

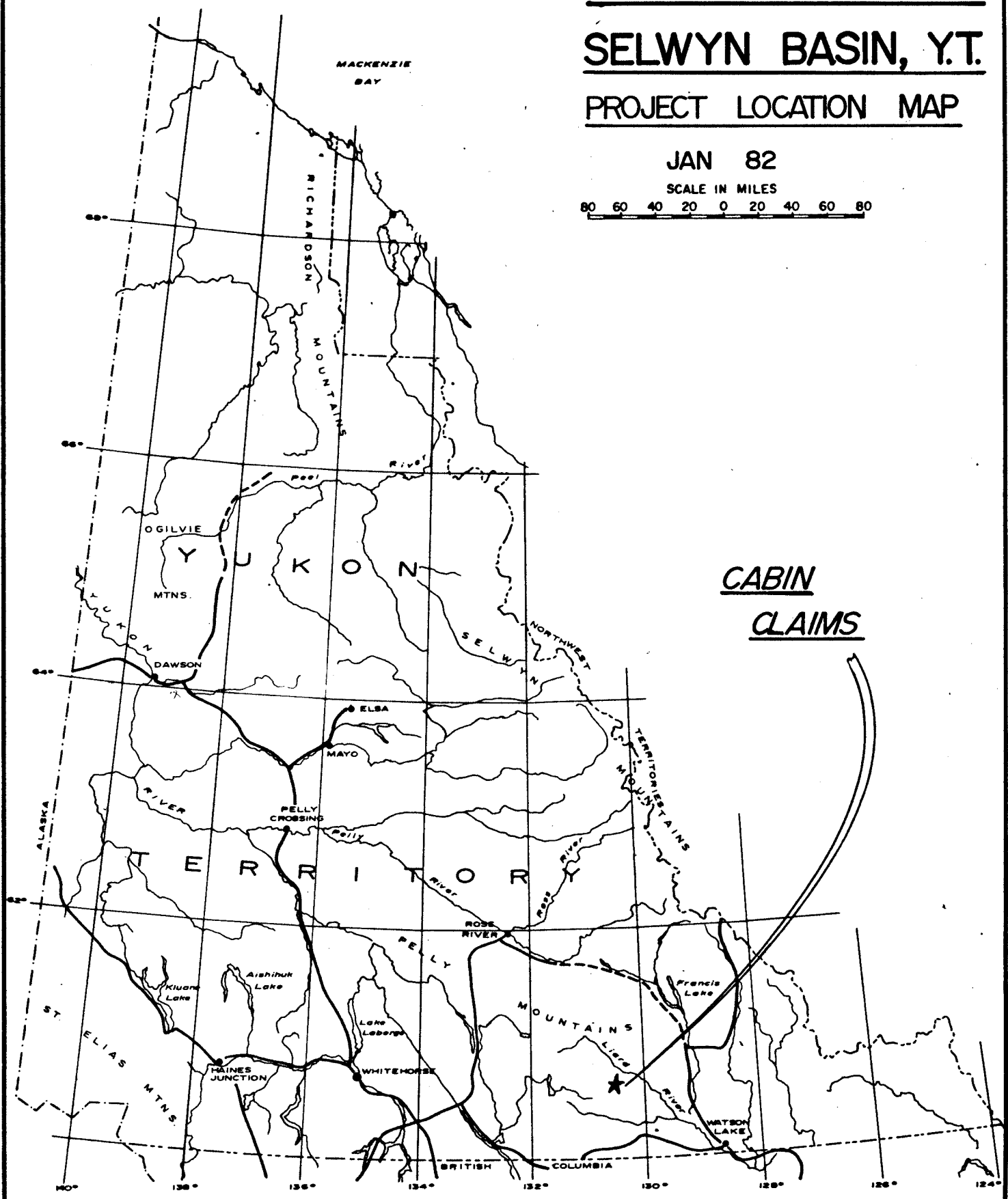
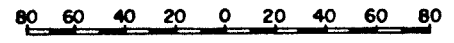
2.  
**SEREM LTD.**

**SELWYN BASIN, Y.T.**

**PROJECT LOCATION MAP**

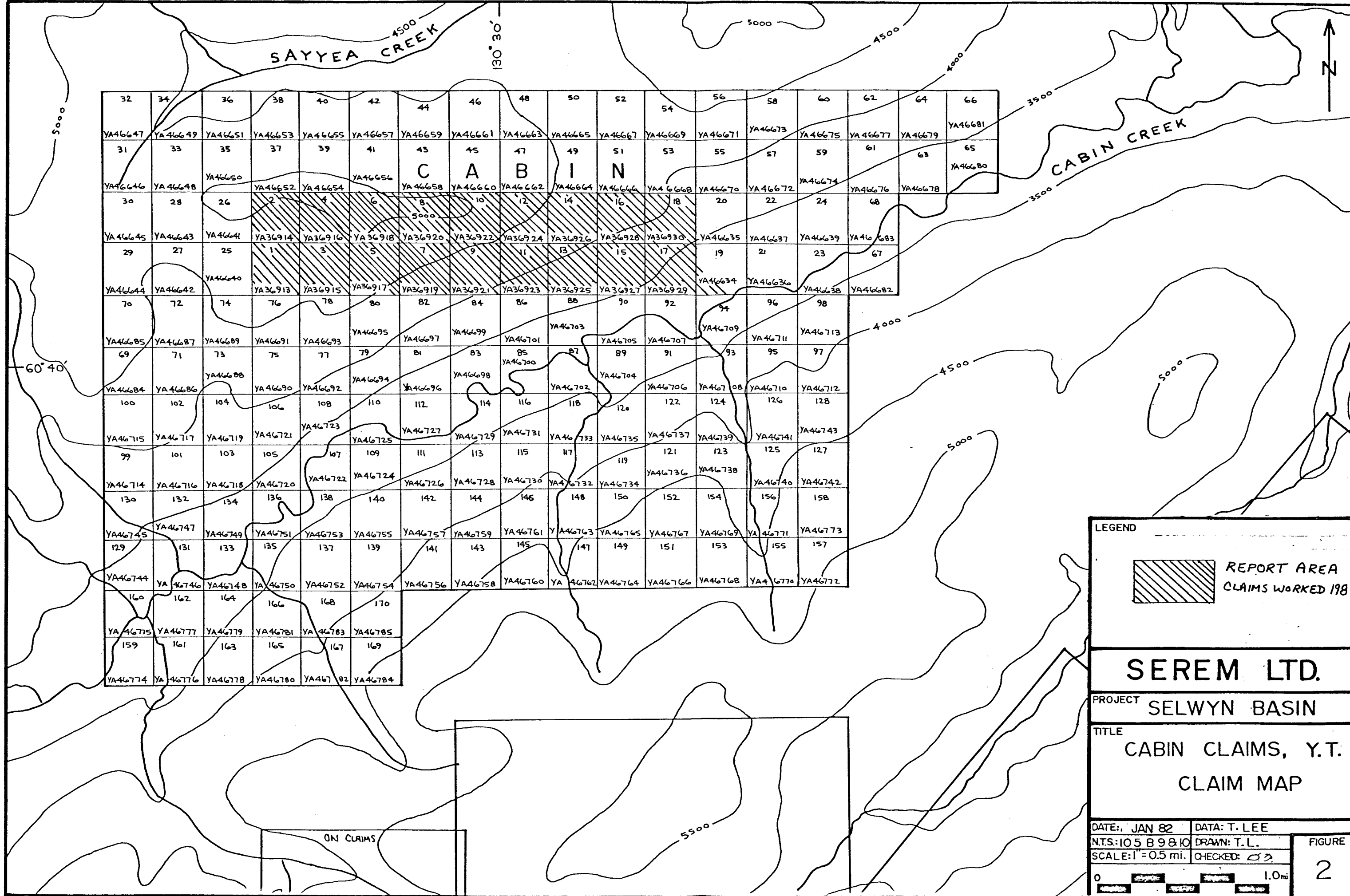
JAN 82

SCALE IN MILES




CABIN  
CLAIMS

FIGURE ONE



32	34	36	38	40	42	44	46	48	50	52	54	56	58	60	62	64	66
YA46647	YA46649	YA46651	YA46653	YA46655	YA46657	YA46659	YA46661	YA46663	YA46665	YA46667	YA46669	YA46671	YA46673	YA46675	YA46677	YA46679	YA46681
31	33	35	37	39	41	43	45	47	49	51	53	55	57	59	61	63	65
YA46646	YA46648	YA46650	YA46652	YA46654	YA46656	YA46658	YA46660	YA46662	YA46664	YA46666	YA46668	YA46670	YA46672	YA46674	YA46676	YA46678	YA46680
30	28	26	2	4	6	8	10	12	14	16	18	20	22	24	68		
YA46645	YA46643	YA46641	YA36914	YA36916	YA36918	YA36920	YA36922	YA36924	YA36926	YA36928	YA36930	YA46635	YA46637	YA46639	YA46683		
29	27	25	1	3	5	7	9	11	13	15	17	19	21	23	67		
YA46644	YA46642	YA46640	YA36913	YA36915	YA36917	YA36919	YA36921	YA36923	YA36925	YA36927	YA36929	YA46634	YA46636	YA46638	YA46682		
70	72	74	76	78	80	82	84	86	88	90	92	94	96	98			
YA46685	YA46687	YA46689	YA46691	YA46693	YA46695	YA46697	YA46699	YA46701	YA46703	YA46705	YA46707	YA46709	YA46711	YA46713			
69	71	73	75	77	79	81	83	85	87	89	91	93	95	97			
YA46684	YA46686	YA46688	YA46690	YA46692	YA46694	YA46696	YA46698	YA46700	YA46702	YA46704	YA46706	YA46708	YA46710	YA46712			
100	102	104	106	108	110	112	114	116	118	120	122	124	126	128			
YA46715	YA46717	YA46719	YA46721	YA46723	YA46725	YA46727	YA46729	YA46731	YA46733	YA46735	YA46737	YA46739	YA46741	YA46743			
99	101	103	105	107	109	111	113	115	117	119	121	123	125	127			
YA46714	YA46716	YA46718	YA46720	YA46722	YA46724	YA46726	YA46728	YA46730	YA46732	YA46734	YA46736	YA46738	YA46740	YA46742			
130	132	134	136	138	140	142	144	146	148	150	152	154	156	158			
YA46745	YA46747	YA46749	YA46751	YA46753	YA46755	YA46757	YA46759	YA46761	YA46763	YA46765	YA46767	YA46769	YA46771	YA46773			
129	131	133	135	137	139	141	143	145	147	149	151	153	155	157			
YA46744	YA46746	YA46748	YA46750	YA46752	YA46754	YA46756	YA46758	YA46760	YA46762	YA46764	YA46766	YA46768	YA46770	YA46772			
160	162	164	166	168	170												
YA46775	YA46777	YA46779	YA46781	YA46783	YA46785												
159	161	163	165	167	169												
YA46774	YA46776	YA46778	YA46780	YA46782	YA46784												

LEGEND



REPORT AREA  
CLAIMS WORKED 1981

**SEREM LTD.**

PROJECT SELWYN BASIN

TITLE CABIN CLAIMS, Y.T.  
CLAIM MAP

DATE: JAN 82 DATA: T. LEE

NTS: 10 5 B 9 & 10 DRAWN: T. L.

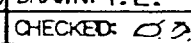

SCALE: 1" = 0.5 mi. CHECKED: 

FIGURE 2



ON CLAIMS

#### 4. EXPLORATION HISTORY

Geological and geochemical work was performed during 1979 on the Cabin 1-18 claims and in 1980 geological, geochemical and geophysical work was carried out on the Cabin 1-170 claims.

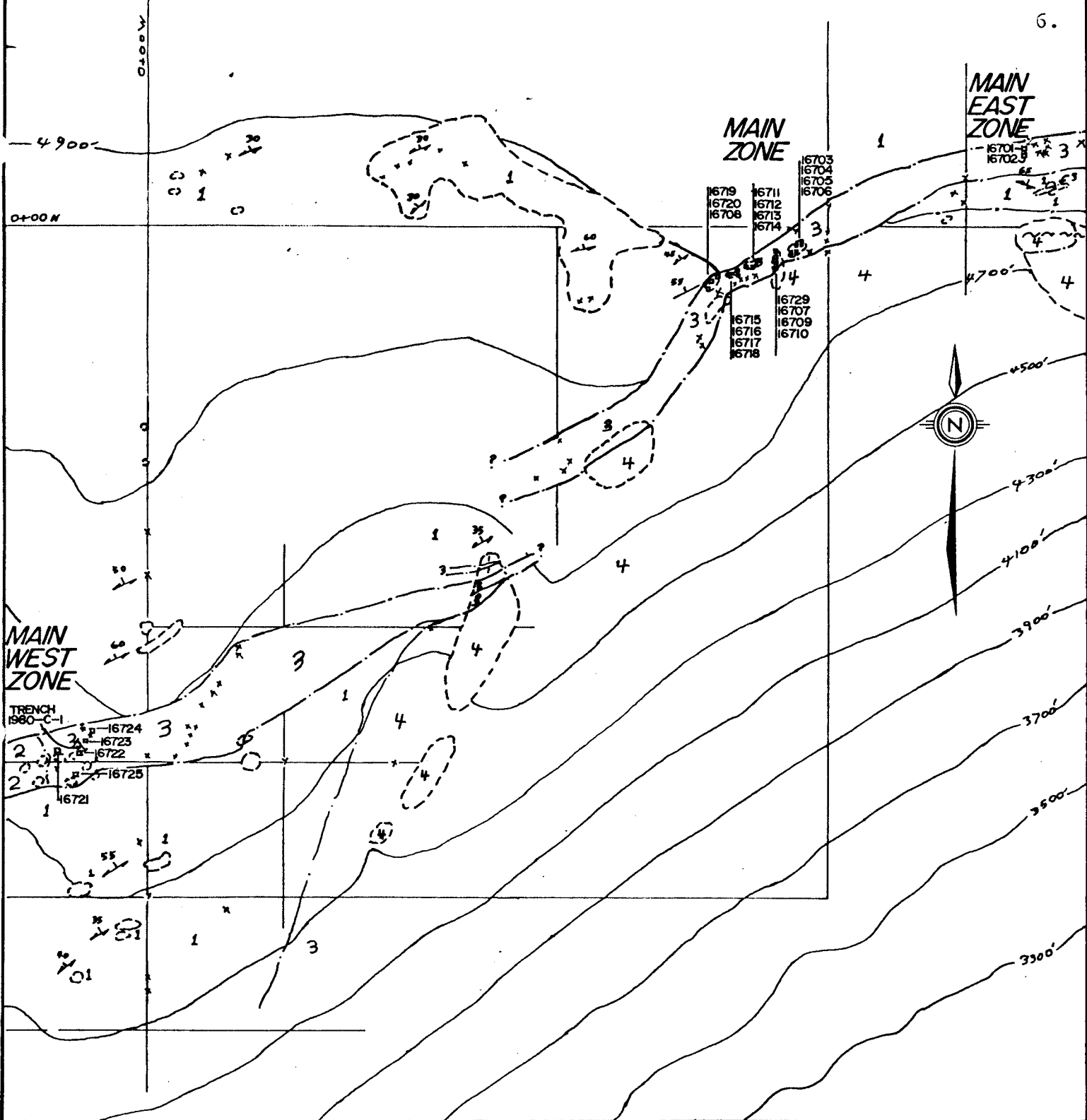
Between July 21 and September 1, 1981, field work was performed on the Cabin 1-18 claims and included night ultraviolet lamping; chip-channel sampling with assaying for tungsten and zinc; and a general evaluation of the skarn showings.

#### 5. GEOLOGY AND MINERALIZATION

A two-man prospecting, night ultraviolet lamping and sampling crew systematically investigated known tungsten skarn showings on the Cabin claims. Results are listed in Table 1 and plotted on Figure 3.

Table 1. Cabin Claims 1981 Assay Results.

Sample No.	Location	Type	Length (metres)	WO <sub>3</sub> %	Gold oz/ton	Tin %
16729	Main	Grab	--	1.220	.001	.01
16701	Main East	Chip	1.4	0.038	.001	--
16702	"	Chip	1.0	0.001	.001	--
16703	Main	Chip	1.0	0.040	.001	--
16704	"	Chip	0-1.0	0.001	.001	--
16705	"	Chip	1.0-2.0	0.001	.001	--
16706	"	Chip	1.3	0.0.0	.001	--
16707	"	Chip	0-1.0	0.110	.001	--
16708	"	Chip	1.0-2.0	0.013	.001	--
16709	"	Chip	1.0	0.005	.001	--
16710	"	Chip	1.0	0.151	.001	--
16711	"	Chip	1.0	0.190	.001	--
16712	"	Chip	0.25	0.003	.001	--
16713	"	Chip	1.0	0.035	.001	--
16714	"	Chip	1.0	0.605	.001	--
16715	"	Chip	0-1.0	0.088	.002	--
16716	"	Chip	1.0-2.0	0.177	.001	--
16717	"	Chip	0-1.0	0.130	.002	--
16718	"	Chip	1.0-2.0	0.140	.001	--
16719	"	Chip	1.0	0.018	.001	--
16720	"	Chip	1.0	0.007	.002	--
16721	Main West	Chip	1.0	0.025	.001	--
16722	"	Chip	1.0	0.023	.001	--
16723	"	Chip	1.0	0.250	.001	--
16724	"	Chip	3.0	0.670	.001	--
16725	"	Chip	1.0	0.120	.001	--



- 4** QUARTZ-BIOTITE MONZONITE & GRANODIORITE
- 3** SKARN
- 2** RECRYSTALLIZED LIMESTONE
- 1** UNDIVIDED METASEDIMENTARY ROCKS

□ 17011 ASSAY SAMPLE LOCATION  
SEE TABLE 1 IN TEXT FOR RESULTS

**SEREM LTD.**  
*SELWYN BASIN*  
**CABIN CLAIMS, Y.T.**  
**GEOLOGY & ASSAY RESULTS**

DATE FEB 82	REV.
NTS 105B/9,10	DATA MS. T.L. DR. DGD
SCALE 1:10 000	FIGURE
0  500m	<b>3</b>

### 5.1 Main Zone

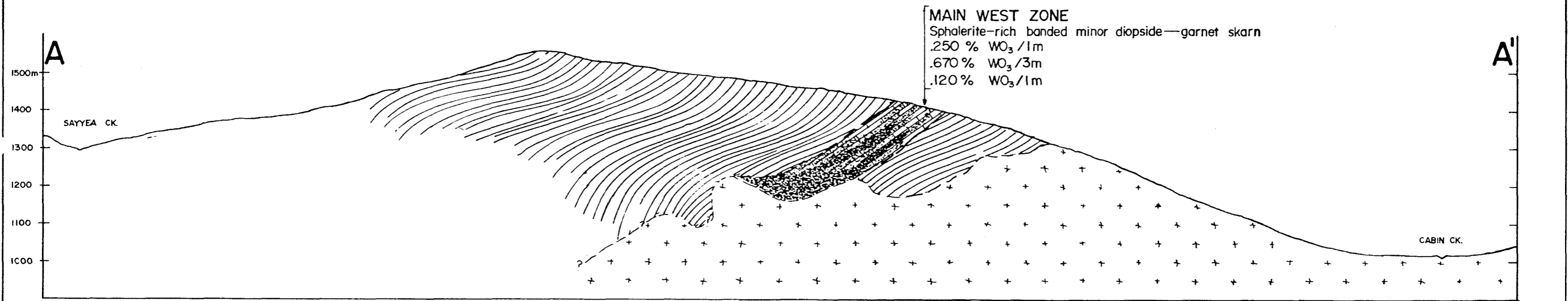
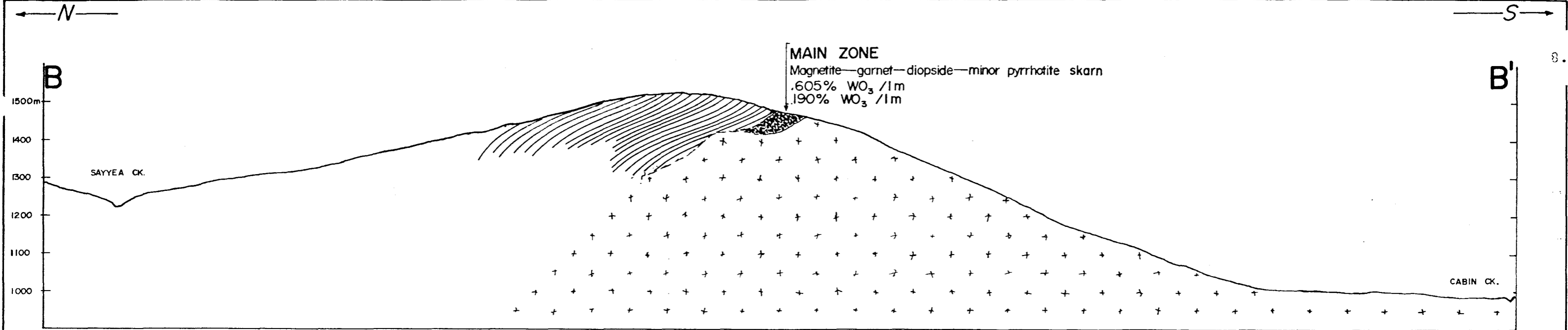
The "Main Zone" trends roughly east-northeasterly and dips to the north between lines 10+00E and 12+50E on the east-west base line. The 40-metre thick skarn unit is in direct contact with the Cabin Creek stock in this zone. Exposure is fairly good and best assay results are 0.605%  $WO_3$  over 1 metre. An average grade of .096%  $WO_3$  was obtained from chip channel/panel sampling in the Main Zone.

Figure 4 is a preliminary geological cross-section through this zone.

### 5.2 Main West Area

The "Main West Area" is located in the southwest claims area near 10+00S and 0+00E (north-south base line) and is characterized by limited exposure and dense brush cover. Tungsten grades are higher here with averages of 0.218%  $WO_3$  obtained from chip panel samples in the area. The best assay value is 0.670%  $WO_3$  over 3 metres.

Figure 4 is a preliminary geological cross-section through this zone.



- LEGEND**
- +

+

+

+

BIOTITE—QUARTZ MONZONITE  
TO GRANODIORITE
  - QUARTZ—BIOTITE SCHIST
  - SKARN ZONE completely/partially/un-  
metamorphosed limestone bed

<b>SEREM LTD.</b>		
<i>SELWYN BASIN</i>		
CABIN CLAIMS, Y.T.		
<b>GEOLOGICAL</b>		<b>SECTIONS</b>
DATE FEB 82	REV.	
NTS 105B/9&10	DATA MV MS	DR. DGD
SCALE 1:10 000		
		FIGURE
		<b>4</b>

## 6. EVALUATION

The Cabin 1-18 claims cover favourable tungsten skarn mineralization. Surface showings have been evaluated and indicate widespread, low grade tungsten mineralization (0.1%  $WO_3$ ). Upgrading to an average of 0.2%  $WO_3$  or higher appears to take place over the West Main skarn showings.

All of the requirements for having a tungsten ore body appear to have been met on the Cabin claims:

- (i) A favourable host limestone unit with significant dimensions;
- (ii) Adequate metasomatism to produce good skarn; and
- (iii) Widespread scheelite mineralization.

Future work on the property must focus on locating specific targets for pinning down higher grade tungsten deposition.

7. RECOMMENDATIONS

Future work on the claims should concentrate on simple 2-stage physical work: initial trenching followed up by diamond drilling if warranted. Upgrading of geological mapping should be carried out as exploration progresses.

For 1982, the following specific field work is recommended:

- (i) In the West Main skarn zone, further trenching and sampling is recommended to determine skarn grades and dimensions.
- (ii) Limited trenching north and northeast of the main wolframite showing should be carried out to expose and evaluate skarn development and mineralization in this area. Geochemical and geophysical data can be used to help in the location process.

*Mark Stammers*  
March 19, 1982

APPENDIX 1

LIST OF PERSONNEL

CABIN 1 - 18

<u>Name/Position</u>	<u>Residence</u>	<u>Dates Worked (1981)</u>
David Coffin, Prospector	Vancouver, B.C.	July 25-29
Peter Newman, Prospector	North Vancouver, B.C.	July 25-29
Michael Stammers, Geologist	Port Coquitlam, B.C.	July 29
Mohan Vulimiri, Geologist	North Vancouver, B.C.	July 29

APPENDIX 2

STATEMENT OF COSTS

CABIN 1-18 MINERAL CLAIMS

WAGES

Field

Geologist	1 day @ \$115 x 1.55	\$178.25
Geologist	1 day @ \$125 x 1.55	193.75
Prospector	5 days @ \$100 x 1.35	675.00
Prospector	5 days @ \$100 x 1.35	675.00

Office

Geologist	2 days @ \$115 x 1.35	310.50
Drafting/ Secretarial		<u>150.00</u>

\$2,182.50

ROOM AND BOARD

12 mandays @ \$30/day	\$ 360.00
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HELICOPTER

Charter	4 hrs @ \$350/hour	\$1,400.00
Fuel	4 hrs @ \$140/hour	<u>560.00</u>

\$1,960.00

FIXED WING

Charter	1 trip @ \$450/trip	\$ 450.00
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MISCELLANEOUS SUPPLIES

Field	\$125.00
Office	<u>15.00</u>

\$ 140.00

GEOCHEMICAL ANALYSES

Assays	20 samples @ \$21.75	\$435.00
Freight	80 lbs @ \$ 0.50/lb	<u>40.00</u>

\$ 475.00

TOTAL

\$5,567.50

APPENDIX 3

GEOCHEMICAL METHODS AND ANALYSIS

Chip and grab rock samples were collected in plastic sample bags and sent to Min-En Laboratories Ltd., North Vancouver, B.C.

These rock assay samples were ground to -100 mesh and then analyzed by methods appropriate for each element as listed below:

WO<sub>3</sub>, Sn -- Acid digestion  
-- chemical analysis

Au - Fire-- A.A. Finish

AFFIDAVIT

IN THE MATTER OF APPLICATIONS FOR CERTIFICATE OF WORK FOR THE CABIN 1-18 MINERAL CLAIMS, WATSON LAKE MINING DISTRICT, YUKON TERRITORY, SUBMITTED ON BEHALF OF SEREM LTD.

I, Michael Stammers, geologist of SEREM Ltd., Suite 300, 535 Thurlow Street, Vancouver, British Columbia, HEREBY CERTIFY THAT:

The preceding SUMMARY OF COSTS totalling \$5,567.50 which is submitted in support of the Applications for Certificate of Work, is the actual amount incurred by SEREM Ltd., in conducting a geological evaluation program on the Cabin 1-18 Mineral Claims, Watson Lake Mining District, during the 1981 field season.

AND THAT Applications for Certificate of Work are attached for the following Representation Work:

<u>MINERAL CLAIMS</u>	<u>GRANT NUMBERS</u>	<u>GROUP CERT. NO.</u>	<u>AMOUNT APPLIED</u>
CABIN 1-8 incl.	YA36913-YA36920 incl.	2282	\$3,200.00
CABIN 9-18 incl.	YA36921-YA36930 incl.	2283	<u>\$1,000.00</u>
	Total applied		\$4,200.00
	Balance of Cost Unapplied		<u><u>\$1,367.50</u></u>

SWORN BEFORE ME at )  
WATSON LAKE , this 1st day )  
of April , 1982 )  
)  
)  
Pat Jamieson )  
Notary Public )

Michael Stammers  
Michael Stammers

APPENDIX 4

STATEMENT 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.
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 for 8 years.
4. I am the author of this report and the field 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.



Michael Stammers,  
Geologist.

Vancouver, B.C.

March 1982.