

ASSESSMENT REPORT



GEOLOGICAL, GEOCHEMICAL AND GEOPHYSICAL REPORT  
ON THE  
TEAM 1 - 206 MINERAL CLAIMS

WATSON LAKE MINING DISTRICT  
YUKON TERRITORY, CANADA

60°44' N Latitude, 130°48' W Longitude  
N.T.S. 105B-10/105B-15

FOR  
SEREM LTD.

REPORT BY: M.A. STAMMERS, MOHAN VULIMIRI AND PETER TEGART

WORK PERFORMED BETWEEN: June 4, 1981 and March 19, 1982

DATE OF REPORT: MARCH 1982

091011

This report has been examined by  
the Geological Evaluation Unit  
under Section 53 (4) Yukon Quartz  
Mining Act and is allowed as  
representation work in the amount  
of \$ 65,200 -.

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

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1. INTRODUCTION

The Team 1-206 mineral claims lie east of Stoneaxe Lake and straddle Gravel Creek in southcentral Yukon Territory (Figure 1). Team 1-98, Team 99-120, and Team 121-206 were staked in June 1980, August 1980 and August 1981 respectively to cover tungsten-zinc skarn showings.

During 1981, several new tungsten-skarn showings bordering the Gravel Creek stock were discovered by Serem Ltd. prospectors E. DeBock and M. Boulding. Appraisal of the occurrences resulted in claim staking.

Extensive property work was carried out on the Team 1-206 mineral claims from May 22, 1981 to September 21, 1981. Geological, geochemical, geophysical and trenching work that was completed will be detailed in this report.

2. LIST OF CLAIMS (Figure 2)

<u>Claim Name</u>	<u>Record Number</u>	<u>Group No.</u>	<u>Expiry Date</u>
Team 1- 16	YA 54683 - 698	2908	3 June 1985
Team 17- 26	YA 54699 - 708	2909	3 June 1985
Team 93- 98	YA 54775 - 780	2909	3 June 1985
Team 27- 42	YA 54709 - 724	2910	3 June 1985
Team 43- 56	YA 54725 - 738	2911	3 June 1984
Team 91- 92	YA 54773 - 774	2911	3 June 1984
Team 57- 90	YA 54739 - 772	--	3 June 1983
Team 99-120	YA 56406 - 427	--	22 Aug. 1982
Team 121-128	YA 66709 - 716	--	31 July 1982
Team 129-206	YA 66719 - 796	--	6 Aug. 1982

All claim posts have been tagged in accordance with the Yukon Quartz Mining Act.

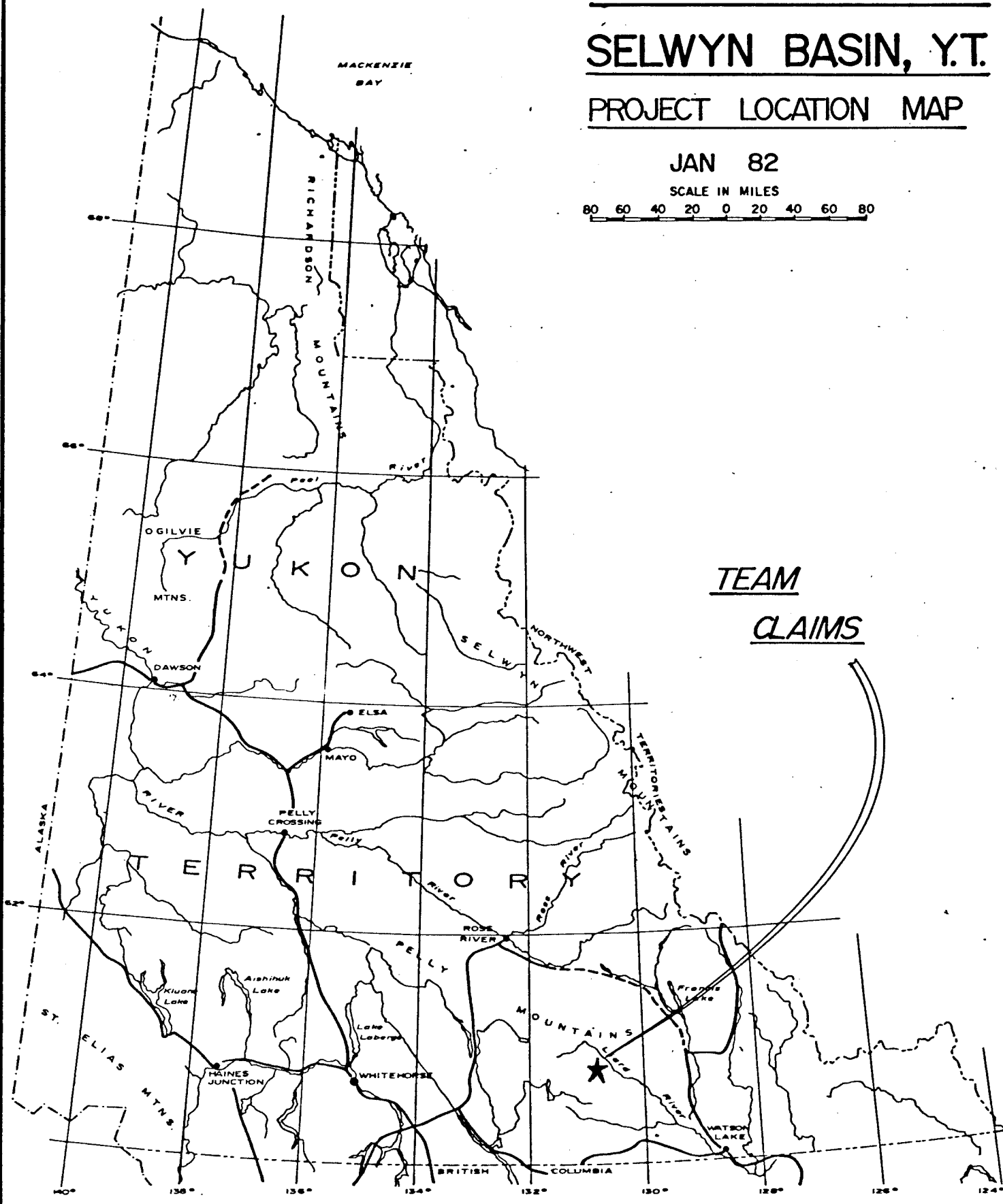
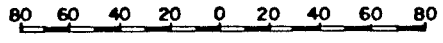
# SEREM LTD.

## SELWYN BASIN, Y.T.

### PROJECT LOCATION MAP

JAN 82

SCALE IN MILES



TEAM  
CLAIMS

FIGURE ONE



205	206	195	196	185	186	173	174						
YA66775	YA66796	YA66785	YA66786	YA66776	YA66776	YA66763	YA66764						
203	204	193	194	183	184	171	172					89	90
YA66793	YA66774	YA66789	YA66780	YA66777	YA66774	YA66761	YA66762					YA59771	YA59772
201	202	191	192	181	182	169	170	97	98	91	92	87	88
YA66779	YA66792	YA66781	YA66782	YA66771	YA66772	YA66759	YA66760	YA59777	YA59780	YA59773	YA59774	YA59769	YA59770
199	200	189	190	179	180	167	168	95	96	55	56	85	86
YA66789	YA66790	YA66779	YA66780	YA66769	YA66770	YA66757	YA66758	YA59771	YA59778	YA59737	YA59738	YA59767	YA59768
197	198	187	188	177	178	165	166	93	94	53	54	83	84
YA66787	YA66788	YA66777	YA66778	YA66767	YA66768	YA66755	YA66756	YA59775	YA59776	YA59736	YA59736	YA59765	YA59766
				175	176	163	164	25	26	51	52	81	82
				YA66765	YA66766	YA66753	YA66754	YA59707	YA59708	YA59733	YA59734	YA59763	YA59764
								23	24	49	50	79	80
								YA59705	YA59706	YA59731	YA59732	YA59761	YA59762

60°45'N.

119	120	21	22	47	48	77	78
YA54426	YA56427	YA59703	YA59704	YA54429	YA54730	YA54759	YA54760
117	118	19	20	45	46	75	76
YA56424	YA56405	YA59701	YA59702	YA59727	YA59728	YA54751	YA54752
115	116	17	18	43	44	73	74
YA54422	YA54423	YA54699	YA54700	YA59725	YA59726	YA54755	YA54756
113	114	15	16	41	42	71	72
YA54420	YA56421	YA54697	YA54698	YA59723	YA59724	YA54753	YA54754

133	134						
YA66723	YA66724						
109	110	11	12	37	38	67	68
YA56416	YA56417	YA54693	YA54694	YA54719	YA54720	YA54749	YA64750

145	146	131	132				
YA66735	YA66736	YA66721	YA66722				
155	156	143	144	129	130		
YA66745	YA66746	YA66733	YA66734	YA66719	YA66720		
153	154	141	142	127	128		
YA66743	YA66744	YA66731	YA66732	YA66715	YA66716		
161	162	151	152	139	140	125	126
YA66751	YA66752	YA66741	YA66742	YA66729	YA66730	YA66713	YA66714
159	160	149	150	137	138	123	124
YA66749	YA66750	YA66739	YA66740	YA66727	YA66728	YA66711	YA66712
157	158	147	148	135	136	121	122
YA66747	YA66748	YA66737	YA66738	YA66725	YA66726	YA66709	YA66710
103	104	5	6	31	32	61	62
YA56410	YA56411	YA54687	YA54688	YA54713	YA54714	YA59743	YA59744
101	102	3	4	29	30	59	60
YA56408	YA56409	YA54685	YA54686	YA54711	YA54712	YA54741	YA54742
99	100	1	2	27	28	57	58
YA54406	YA56407	YA54683	YA54684	YA54709	YA54710	YA59739	YA59740

130°50'W.

<b>SEREM LTD.</b>		
<b>SELWYN BASIN</b>		
<b>TEAM CLAIMS, Y.T.</b>		
<b>CLAIMS MAP</b>		
DATE JAN 82	REV.	
NTS 105B 10/15	DATA MS	DR. DGD
SCALE 1:50 000	FIGURE	
0 25km		<b>2</b>

### 3. LOCATION AND ACCESS

The Team 1-206 claims are located 130 kilometres northwest of Watson Lake, Yukon at longitude 130°48' W and latitude 60°44' N. The claims straddle Gravel Creek and lie south of Scurvey Creek and east of Stoneaxe Lake in southcentral Yukon.

Access to the property is provided by float-equipped aircraft from Watson Lake to Stoneaxe Lake and thence a short distance by helicopter to a central base camp on Gravel Creek. A Hughes 500 D helicopter provided valuable support in exploring the distant parts of the claim.

### 4. EXPLORATION HISTORY

Serem Ltd. has actively explored the northeastern Cassiar Mountains in the eastern Wolf Lake map area (N.T.S. 105 B) for two full field seasons. Other claim groups held by Serem Ltd. in the Gravel Creek area are the Stoneaxe, Gee Wis, and Source claims.

No other claims are found in the immediate Gravel Creek area. The closest non-Serem properties to the Team claims are the Elle and On (Eldorado Nuclear and Cordilleran Engineering) claim groups located south of Cabin Creek.

### 5. PHYSIOGRAPHY AND CLIMATE

The Team 1-206 mineral claims are located in the northeastern Cassiar Mountains and lie to the west of the Liard River.

Elevations on the property range from a minimum of 915 metres (3000 feet) near the Gravel and Scurvy Creeks junction to a maximum of 1500 metres (4900 feet) in the southwest claims area. Treeline generally lies between 1310 and 1430 metres (4300 and 4700 feet) above sea level. A large burn (10-15 years old) covers most of the claims.

Outcrop on the property is generally fair (10%) with best exposures at higher elevations and in the deepest stream cuts. Portions of the property are completely obscured by glacial deposits. Moraines and eskers occupy the valleys of the Gravel, Stoneaxe and Scurvy Creeks and their tributaries. Ice movement directions are east-west.

The climate in the Team claims area is characterized by long, cold winters and short warm to occasionally hot summers. Precipitation is generally light on the property. Nearby, Stoneaxe Lake is usually free of ice by the first week in June.

Wildlife in the claims area is notable for its absence or low population. The recent burn on the Team claims restricts moose, caribou and black bear's travels to intermittent visits or pass-throughs.

## 6. REGIONAL GEOLOGY

The Wolf Lake regional geology is based on the Geological Survey of Canada's mapping by W. Poole (1951-1955) and J. Roddick and L. Green (1959) and is published as G.S.C. Map 10-1960.

The Team claims straddle the contact between Hadrynian to Lower Cambrian sedimentary rocks (and their metamorphosed equivalents) and intrusive rocks of the Gravel Creek Stock. Middle Cambrian to Middle Silurian carbonate and detrital sedimentary rocks outcrop 10-15 kilometres east of the Team claims in the core of a large synclinal fold structure centered north of Cabin Creek.

The oldest rocks in the region are variably metamorphosed Hadrynian "grit unit" sediments. This unit appears to "fine" upwards from a coarse quartz grit and fine-grained conglomerate (West Team Claims) to a distinctly interbedded limestone and schist sequence (Team South and A zones). Further to the east, younger, Lower Cambrian massive-grey limestone and silvery-grey phyllites outcrop extensively.

The most favourable stratigraphy for tungsten mineralization and skarn formation appears to be the uppermost Hadrynian silty, thin-bedded limestones and/or limey siltstones.

The Team claims completely cover the northern, eastern and southern contact areas of the metasedimentary rocks and the Gravel Creek Stock. This multiple phase, two-mica, quartz monzonite to granodiorite stock is rich in fluorine, uranium, tin and tungsten.

The regional trend of schistosity and bedding is northeasterly with dips to the east. Similar trends are noted for structural lineaments, fold axis and faults.

## 7. PROPERTY GEOLOGY

### 7.1 Introduction

Preliminary geological mapping at a scale of 1:10,000 was carried out on the Team 1-120 claims grid in 1980. In 1981, a slightly expanded grid was remapped by Serem Ltd. geologists at a scale of 1:5,000 (Figure 4). Geological cross-sections through the north, central, and south Team claims area have been prepared and are presented in Figure 5.

Limited geological mapping was carried out on the recently staked Team 121-206 mineral claims and is summarized on Figure 3. Mineralization is shown on Figure 6.

Detailed geological mapping was carried out over A zone at a scale of 1:2,000 (Figure 7). Trench maps for A and South zones are presented in Figures 8-12.

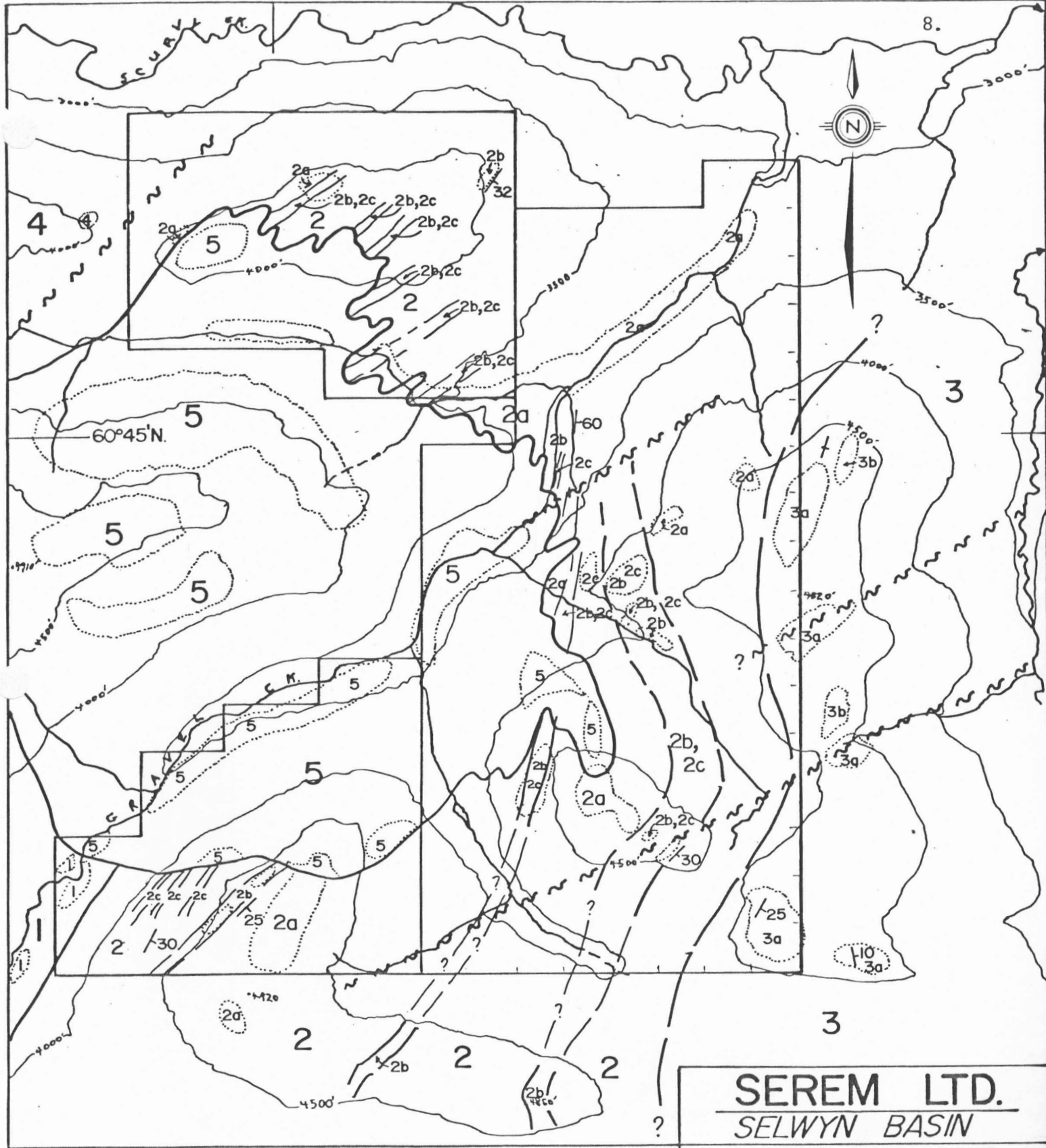
Mineralization and assays are discussed in Section 8.

### 7.2 Lithologies

Brief lithological descriptions of property rock types are presented below. The Team 1-206 mineral claims contain a good deal of the region's stratigraphy which has been discussed in Section 6.

#### 7.2.1 Schist, Meta-Grit and Quartzite

The Hadrynian "Grit Unit", as found on the Team claims, consists of + calcareous quartz-biotite + muscovite schist; calcareous and non-calcareous phyllite, quartzite, and metamorphosed quartz-grit and fine-pebble conglomerate.

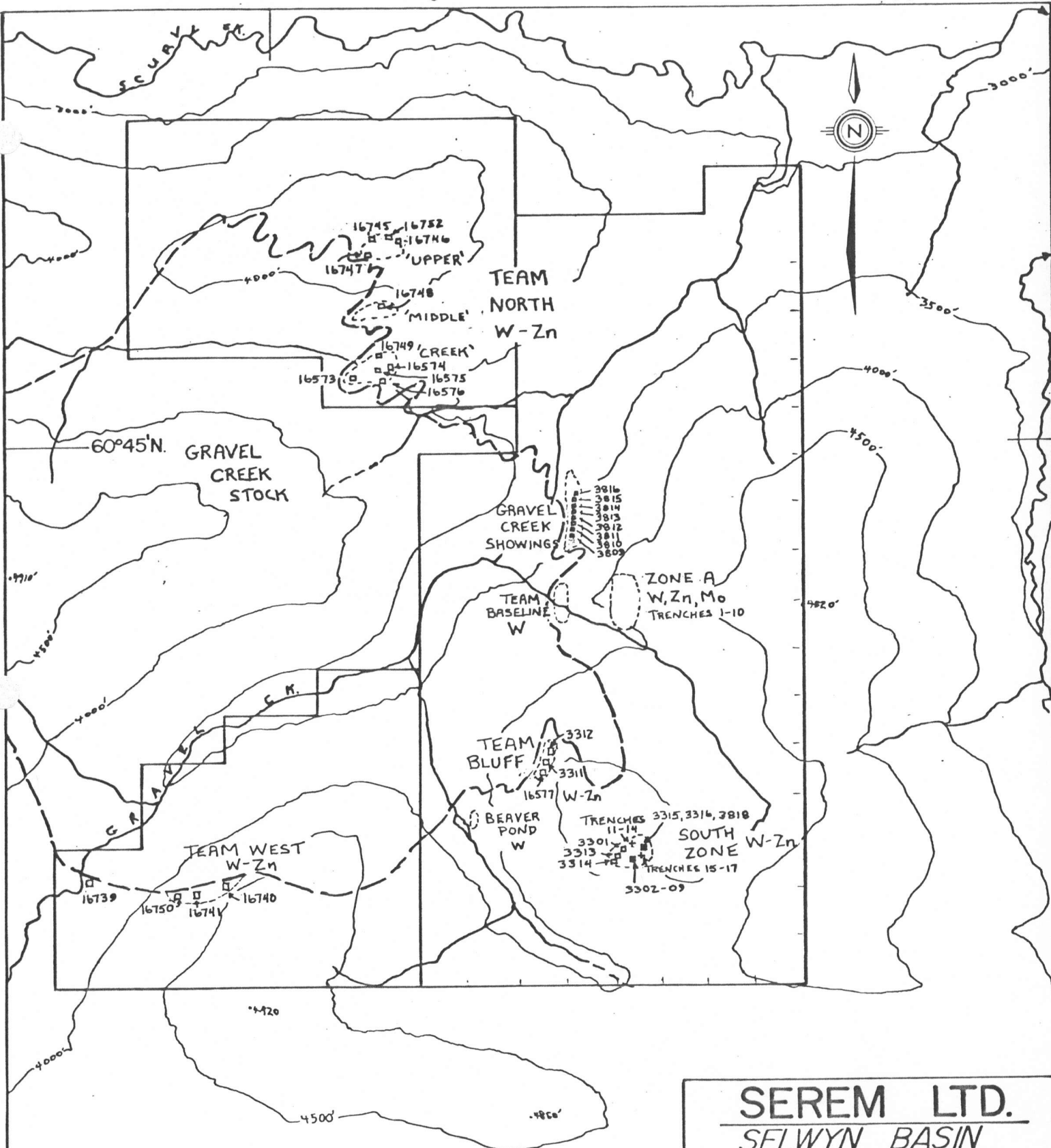


**LEGEND**

- K** 5 GRAVEL CREEK STOCK quartz monzonite, granodiorite, minor metasediments.
- LC** } 4 Thin-bedded limestone.
- LC** } 3 3b Muscovite, phyllite, schist.  
3a Massive grey limestone.  
3 Undivided (meta)sedimentary rocks.
- LC** } 2 2c Skarn; minor limestone, schist.  
2b Limestone, minor skarn, schist.  
2a Quartz-biotite schist; minor limestone, skarn.
- H** } 2 Udivided metasedimentary rocks, minor intrusive.
- H** 1 Quartz-biotite schist, quartz meta-grit.

**SEREM LTD.**  
**SELWYN BASIN**  
**TEAM CLAIMS, Y.T.**  
**PRELIMINARY**  
**GEOLOGY MAP**

DATE JAN 82	REV.	
NTS 105B 10/15	DATA MS	DR. DGD
SCALE 1:50 000	FIGURE	
0  25km		<b>3</b>



--- Approximate geological contact  
 - Gravel Creek Stock + Metasediments

□ Assay sample site(s) - tag number  
 (see tables in text for values)

○ W-Skarn showing - approximate boundary

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**TEAM CLAIMS, Y.T.**

**MINERALIZATION**

DATE JAN 82	REV.
NTS 1058 10/15	DATA MS
SCALE 1:50 000	DR. DGD
FIGURE <b>6</b>	

130°50'W.



4+00E

5+00E

6+00E

1190m

1200m

1210m

1220m

1230m

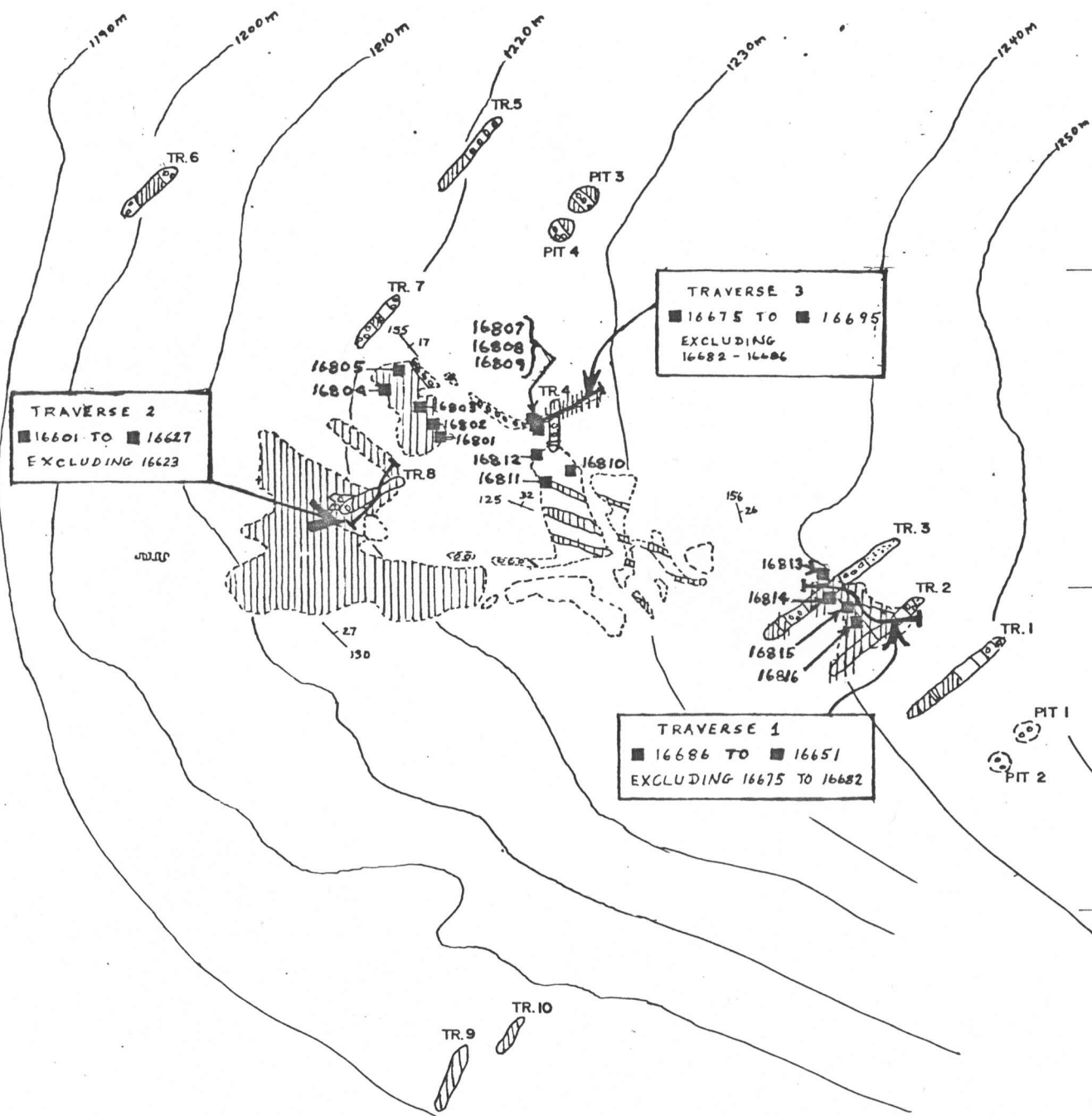
1240m

1250m

15+00 S

16+00 S

17+00 S



TRAVERSE 2  
■ 16601 TO ■ 16627  
EXCLUDING 16623

TRAVERSE 3  
■ 16675 TO ■ 16695  
EXCLUDING  
16682 - 16686

TRAVERSE 1  
■ 16686 TO ■ 16651  
EXCLUDING 16675 TO 16682

### GEOLOGY

- MASSIVE SKARN
- BANDED OR LOW GRADE SKARN
- RECRYSTALLIZED LIMESTONE
- BIOTITE SCHIST
- LIMIT OF OUTCROP
- TRENCH
- STRIKE / DIP

### ASSAYS

- CHIP SAMPLE TRAVERSE
- CHIP SAMPLE LOCATION

## SEREM LTD.

### SELWYN BASIN

### TEAM CLAIMS

### ASSAY + TRENCH MAP

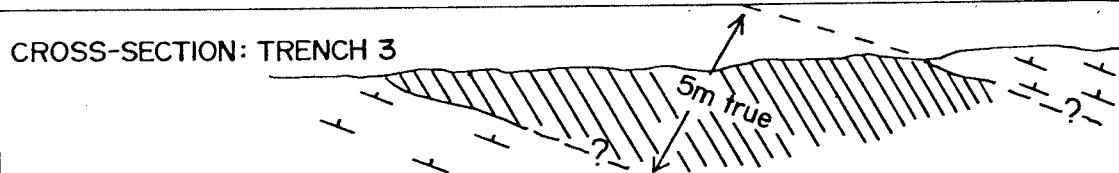
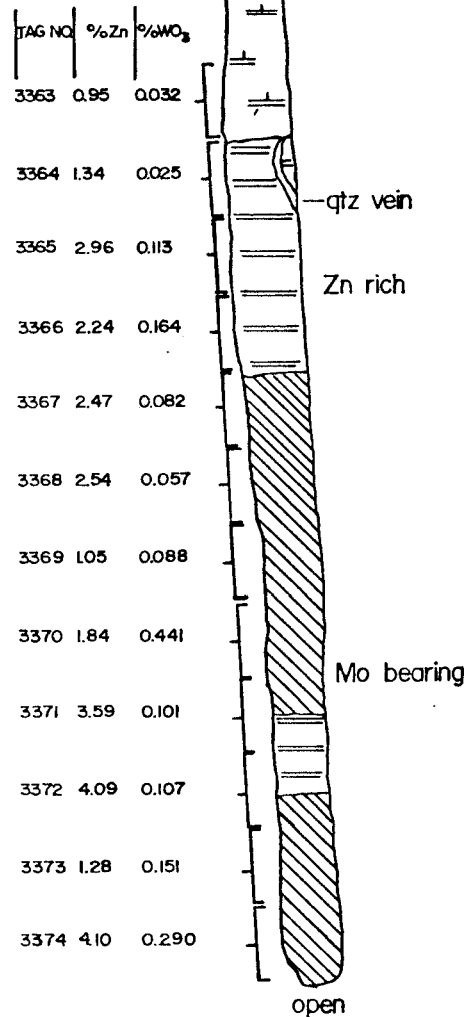
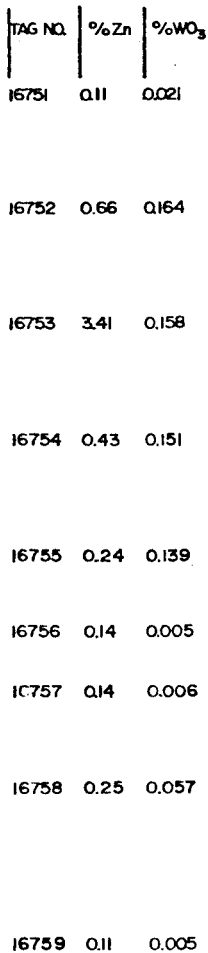
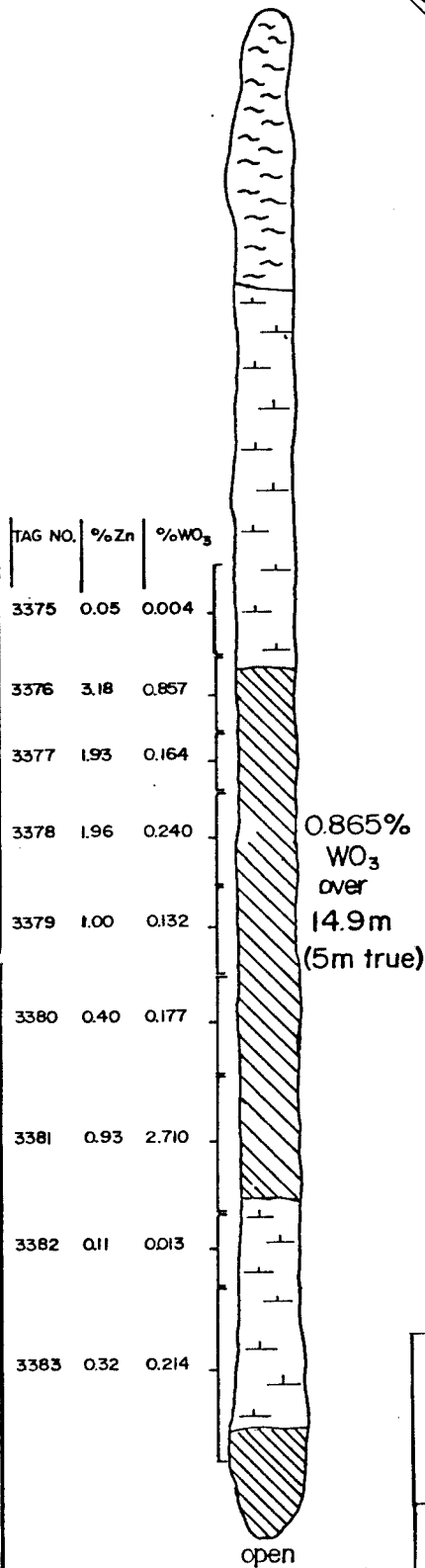
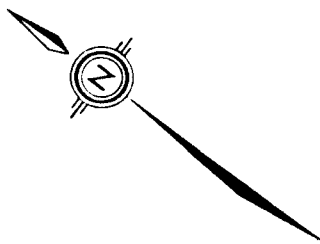
### ZONE "A"

DATE FEB 82	REV.	
NTS 105B/10	DATA MS	DR. DED
SCALE 1:2000		FIGURE
		7

TR. 3

TR. 2

TR. 1



- MASSIVE SKARN  
Quartz — Garnet — Diopside
- BANDED SKARN  
Garnet — Diopside
- BANDED CALC-SILICATE SKARN  
Diopside-bearing
- LIMESTONE (RECRYSTALLIZED)  
Light grey; incipient skarnification
- SCHIST  
Calcareous — Biotitic

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*SELWYN BASIN*

TEAM CLAIMS ZONE "A"

TRENCHES 1, 2 & 3 with

GEOLOGY & Zn-WO<sub>3</sub> ASSAYS

DATE FEB 82 | REV.

NTS 105B / 10 | DATA M.S.

DR. DED

SCALE 1: 200

FIGURE

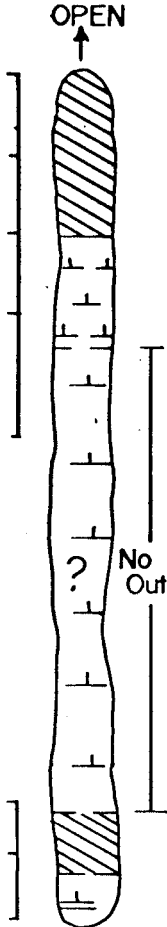


8

### TRENCH 4

DUE N

TAG No.	% WO <sub>3</sub>	% Zn
3384	0.164	0.81
3385	0.485	1.62
3386	0.019	0.63
3387	0.158	0.50
(GRAB)		
3388	0.001	0.20
(GRAB)		
3389	0.214	1.86
3390	0.001	0.16



### TRENCH 5

N 40 W

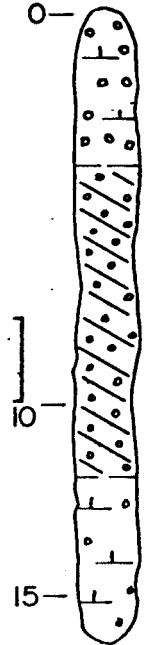
TAG No.	% WO <sub>3</sub>	% Zn
3392	0.145	0.59
3393	0.120	0.86
3394	0.029	0.33
3395	0.033	0.30
3396	0.001	0.11
3397	0.001	0.07



### TRENCH 6

N 45 W

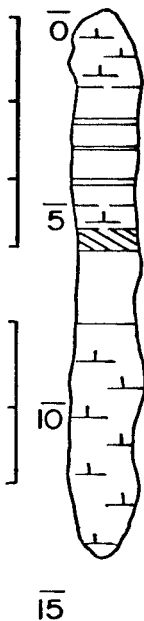
TAG No.	% WO <sub>3</sub>	% Zn
16696	0.126	1.25



### TRENCH 7

S 20 E

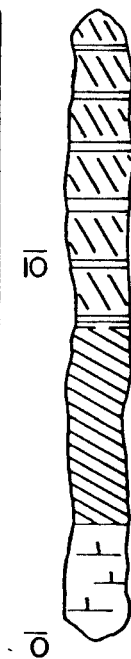
TAG No.	% WO <sub>3</sub>	% Zn
3398	0.001	0.96
3399	0.170	1.91
3400	0.410	1.48
3350	0.120	0.06
3349	0.001	0.15



### TRENCH 8

N 70 W

TAG No.	% WO <sub>3</sub>	% Zn
16763	0.010	0.57
16762	0.082	1.00
16761	0.416	4.17
16760	0.202	3.36



	BANDED SKARN garnet-diopside-sphalerite
	MASSIVE SKARN quartz-garnet-diopside
	RECRYSTALLIZED LIMESTONE incipient skarnification
	Interbedded Massive Skarn, Banded Skarn, and Calc-Silicate Skarn
	CALC-SILICATE SKARN/LIME- STONE

**SEREM LTD.**

**SELWYN BASIN**

**TEAM "A" ZONE**

**TRENCHES 4 to 8**

DATE FEB 82	REV
NTS 105B 10	DATA MS
SCALE 1:200	DR. DED
FIGURE	
9	

### TRENCH 10

TAG No	% WO <sub>3</sub>	% Zn
16700	0.195	1.34
16699	0.385	2.72
16698	0.530	0.63
16697	0.252	3.83



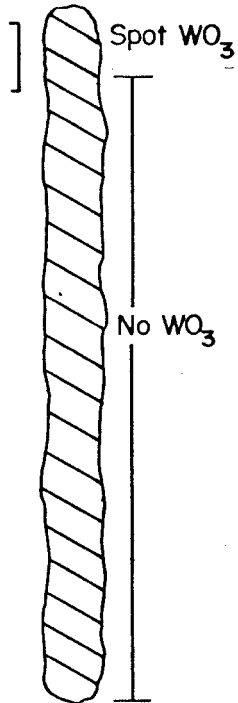
— 10m

**MASSIVE SKARN**  
 Quartz-Hedenbergite  
 ± Garnet. Zinc rich.

— 5m

— 0m

16795 0.019 0.08



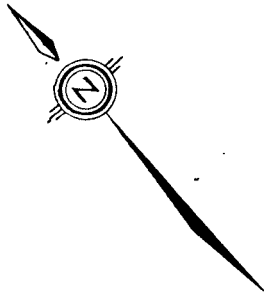
Spot WO<sub>3</sub>

No WO<sub>3</sub>

— 10m

— 0m

**MASSIVE SKARN**  
 Quartz-Hedenbergite



### TRENCH 9

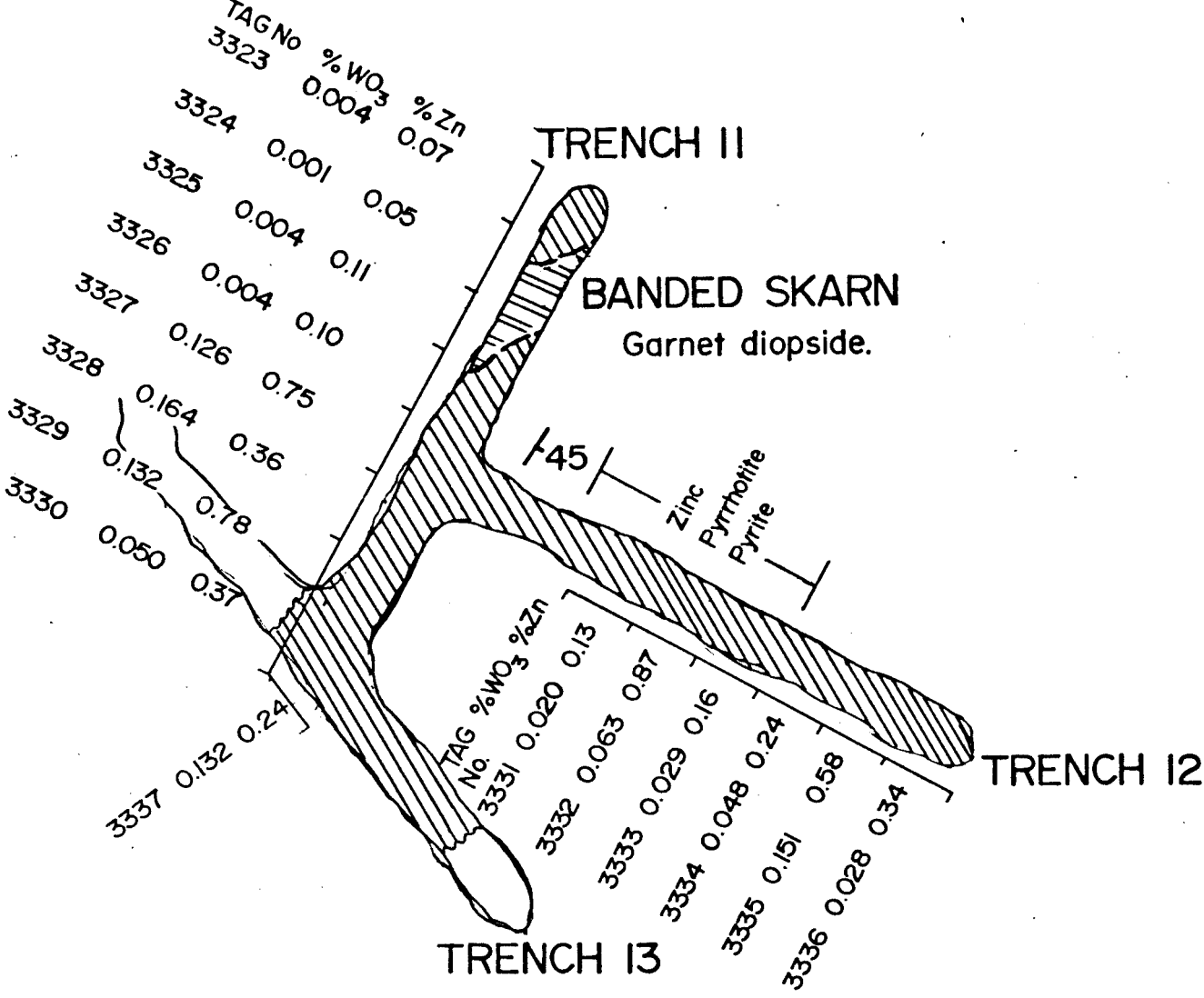
**SEREM LTD.**

*SELWYN BASIN*

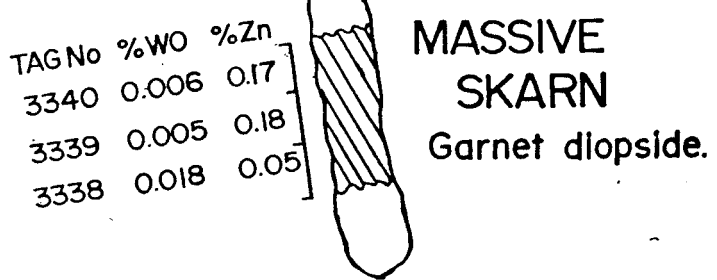
**TEAM "A" ZONE**

*TRENCHES 9 & 10*

DATE FEB 82	REV	
NTS 105B 10	DATA MS	DR. D3D
SCALE 1:200		FIGURE
		<b>10</b>



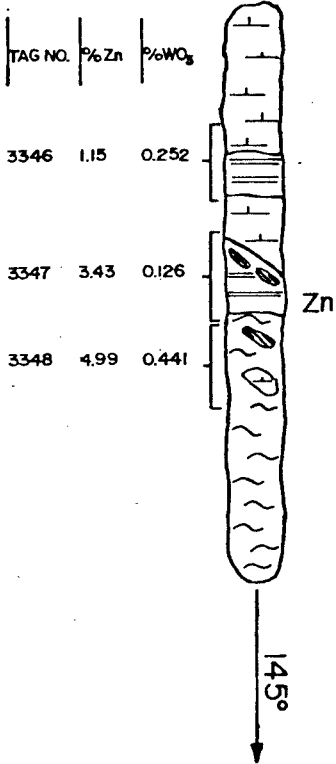
**TRENCH 14**



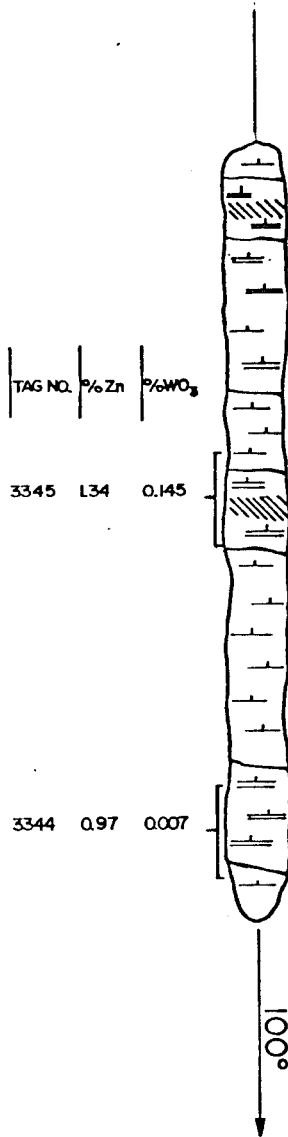
**SEREM LTD.**  
*SELWYN BASIN*  
**TEAM SOUTH ZONE**  
*TRENCHES 11 to 14*

DATE FEB 82	REV	
NTS 105B 10	DATA MS	DR. D3D
SCALE 1:200		FIGURE
0 2 4 8 m.		

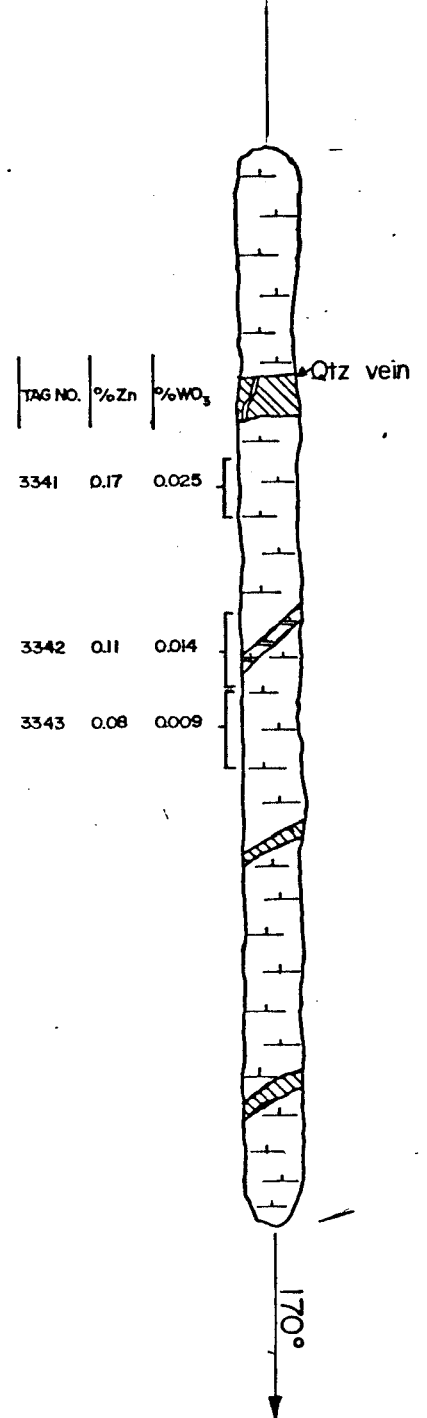
TR.17



TR.16



TR.15



	MASSIVE SKARN Quartz—Garnet—Diopside
	BANDED SKARN Garnet—Diopside
	BANDED CALC—SILICATE SKARN Diopside-bearing
	LIMESTONE (RECRYSTALLIZED) Light grey; incipient skarnification
	SCHIST Calcareous—Biotitic

**SEREM LTD.**  
*SELWYN BASIN*

**TEAM CLAIMS SOUTH**

TRENCHES 15, 16 & 17 with  
GEOLOGY & Zn—WO<sub>3</sub> ASSAYS

DATE FEB 82	REV.
NTS 105B/10	DATA MS.
SCALE 1: 200	DR. DGD

0 10m

**FIGURE 12**

As a rule, schist is the most common lithology and will become coarser-grained and spotted (hornfelsed) on approaching intrusive contact. Also, the schist, or phyllite, becomes generally calcareous on approaching limestone or skarn contacts as seen in both A and South zones.

Coarse-grain lithologies, such as the metamorphosed quartz grit and the fine-pebble conglomerate, occupy the lowest stratigraphic position on the property and outcrop along Gravel Creek in the west Team claims.

Quartzite is found stratigraphically higher in the section and outcrops in the eastern claims area.

#### 7.2.2 Limestone, Recrystallized Limestone and Skarn

A variety of limestone lithologies, and their metamorphosed equivalents, occur throughout the stratigraphic succession on the Team claims. Thicknesses range from less than 1 metre to over 300 metres. Continuity of the limey strata is generally consistent throughout the property.

Equating stratigraphy from showing to showing remains incomplete, but certain relationships are favoured, including A Zone - South Zone and Team Bluff - Baseline showing matchups.

The formation of skarn is subject to several controlling factors, evidence of which may be seen on the property.

Where present and unaltered, the host limestone unit can be described as thin to medium-bedded and variably argillaceous in composition.

Simple metamorphism forms a characteristically "sugary" coarse-grained light grey limestone unit. This unit is found in all showing areas and is defined as recrystallized limestone. Scheelite is absent.

A pale green, calc-silicate, banded immature skarn forms at the next level of contact (?) metamorphism. Its complete mineralogy is unknown but may consist of some of the following: calcite, quartz, hedenbergite and wollastonite. Scheelite occurs infrequently in this unit.

Tremolite-actinolite, along with scheelite and wollastonite, form another definable skarn unit. This lithology is common in the North Team showings where maximum grades approach 0.6%  $WO_3$ .

A distinctive, banded skarn unit composed of quartz-calcite-diopside-scheelite-sphalerite-tremolite-actinolite and garnet, is found commonly in the Team South and A Zone showings. Tungsten grades reach 1%  $WO_3$  and zinc 5%.

Massive skarn, composed of quartz-garnet-diopside-scheelite and sphalerite, form the most economically significant unit on the property. Tungsten and zinc grades vary dramatically from absent to a maximum of 2.7%  $WO_3$  and 4% zinc. The best examples of this lithology are found in A Zone, Team Bluff and Team Baseline showings.

The formation of the different skarn lithologies is controlled by bedding and other cross-cutting structures. Thus, intricate and abrupt relationships are seen between the various lithologies both along

bedding and across bedding depending on the selected path of the mineralizing structures. "Flame" structures are common along strike where a quartz-garnet-diopside-scheelite skarn may abruptly "phase-out" to a barren recrystallized limestone. Scheelite behaves similarly as the above, to a certain degree. Tungsten grades may change abruptly along strike from high grade to low grade over a very short distance. This behaviour is common in many tungsten orebodies and should not be considered detrimental to the Team claims' economic potential.

### 7.2.3 Intrusive Rocks

Intrusive rocks on the property are considered part of the multiple-phase, two-mica, Gravel Creek Stock. Granodiorite to quartz monzonite rocks are commonly found as pegmatitic or aplitic sills and dikes to the main Gravel Creek Stock. Embayment and roof pendant features are common apparent elements of the main stock.

The stock is found to be anomalous in tin and fluorine, and tourmaline is abundant.

It is uncertain as to which phase of the intrusion the tungsten mineralization is related to, but late stage pulses are suspected.

Good tungsten mineralization is clearly related to the composition and nature of the neighbouring intrusive rocks. The Gravel Creek Stock is clearly one of those favourable intrusive bodies for tungsten mineralization and skarn development.

## 8. MINERALIZATION

### 8.1 Introduction

Extensive night Ultraviolet lamping and chip sampling for the purpose of tungsten assaying was completed over the A Zone, South Zone, Gravel Creek and Baseline Showings. Hood Ultraviolet lamping and selected grab sampling of the new Team West, Team North (Stoneaxe Creek), Team Bluff and Beaver Pond showings was carried out on a preliminary basis in 1981. Assay results or sample locations are plotted on Figures 6 through 12 and are listed in listed in Tables 1 through 6.

### 8.2 Trenching

Trenching was carried out by McCrory Holdings Ltd. of Whitehorse, Yukon from August 24, 1981 to September 12, 1981. Two men, assisted by occasional rock drilling, cut 17 trenches and 4 pits through overburden and bedrock in A and South Zones using explosives and hand tools. An estimated 500 cubic metres of earth and rock were moved in producing the 342 metres of trenches and four test pits.

### 8.3 A Zone

A Zone is located in the east-central Team claims and may be found at 15+50S, 5+00E on the property grid. Ten trenches and four pits are located in this zone.

Tungsten-bearing quartz-garnet-diopside skarn with recrystallized limestone and other lower grade skarn lithologies outcrop over a known strike length of 300 metres in an area approximately 275 metres wide. The estimated true thickness of this host unit is 100 metres.

Both on-strike extensions of A Zone are open and overburden covered.

The development of skarn over A Zone is well advanced and over 50% of the host limestone unit has been metamorphosed to skarn. About one-half of this skarn is well-mineralized with scheelite, sphalerite and rare molybdenite.

Scheelite mineralization occurs primarily as medium-grained, bedding and fracture-controlled disseminations throughout the garnet-diopside skarn.

Tungsten grades are generally higher and more consistent in A Zone than in other showings on the property and in the region. Results from extensive chip sampling indicate that tungsten grades approach economically acceptable levels of between 0.3%  $WO_3$  and 0.8%  $WO_3$  in many of the A Zone showings. In Trench No. 3, an average grade of 0.865%  $WO_3$  was obtained over a true thickness of 5.0 metres. In the same area, a 28.0 metre chip channel sample taken obliquely to the strike through the skarn zone averaged 0.366%  $WO_3$ .

The reader is referred to Figure 7, A Zone geology; Figures 8-10, A Zone trench maps; and Tables 1-3, tables of A Zone assay results.

#### 8.4 South Zone

Team South Zone is located in the southeastern Team claims at 39+00S, 6+50E on the property grid. Seven trenches are located in this zone.

A variety of lithologies, including recrystallized limestone, schist, weak calc-silicate skarn and garnet-diopside-scheelite skarn, outcrop over a surface area of 550 metres x 350 metres in the South Zone. The thickness of the favourable, mostly limestone host unit is estimated to be close to 300 metres. The contact with the intrusive rocks of the Gravel Creek Stock is estimated to be 120 metres or more below surface.

The development of favourable skarn lithologies improves from south to north over the South Zone. Trenches 15, 16 and 17 mainly expose recrystallized limestone. Tungsten skarn, where present, is very zinc-rich and assays up to 0.441%  $WO_3$  and 4.99% zinc over intervals of 2 metres or less. Pyrrhotite (up to 10%)-rich skarn outcrops in Trench 13.

Results from extensive chip sampling over South Zone showings indicate only sub-economic tungsten grades and skarn thicknesses at surface. However, the potential for economic tungsten occurrences at depth is great. The combined factors of a very thick host limestone unit, good tungsten grades when skarn occurs at surface, and anomalous tungsten geochemistry and geophysics make the South Zone a very good target for subsurface testing.

#### 8.5 Team Bluff

Full assessment of the Team Bluff showings has not been completed. Scheelite, sphalerite, pyrrhotite, and molybdenite-bearing skarn outcrop in the west-central Team claims at 32+00S, 3+00W on the property grid.

Night lamping and random sampling has revealed significant tungsten mineralization with assay values of up to 0.475%  $WO_3$ . Further mapping and sampling of these showings is recommended.

#### 8.6 Baseline and Gravel Creek Showings

Full evaluation of the Baseline and Gravel Creek showings has been completed. Low tungsten grades and inconsistent skarn development due to poor host lithologies make these showings not worth pursuing.

#### 8.7 Beaver Pond, Team West

Poor exposure and the late-season discovery of the Beaver Pond and Team West showings have resulted in little information on these showings being available.

The Beaver Pond showing consists of small outcroppings and float of quartz-garnet-diopside skarn. Visual estimates of tungsten grade reach 1%  $WO_3$ .

Three separate mineralized horizons have been recognized in Team West. Thicknesses exceeding 10 metres per individual horizon have been estimated and one grab sample assayed 0.925%  $WO_3$ .

#### 8.8 Team North (Stoneaxe Creek)

The Team North showings are located on and north of Stoneaxe Creek and are covered by the Team 163-206 mineral claims.

Work during the 1981 field season consisted of prospecting, a brief geological evaluation, and staking.

The showings consist of scheelite-bearing garnet diopside or wollastonite skarn found adjacent to the intrusive dike rocks of the Gravel Creek Stock.

Grab samples taken from the showings assayed up to 0.960%  $WO_3$ .

TABLE 1. Team Claims - A Zone  
(Trench Sampling Results)

Sample No.	Location	Type	Length (metres)	% WO <sub>3</sub>	% Zn	% Pb	% Sb	% WO <sub>3</sub> Rerun	% WO <sub>3</sub> New Pulp
3363	Trench 1	cG	2	0.032	0.95	.01	.001		
3364	"	cG	2	0.025	1.34	.01	.003		
3365	"	cG	2	0.113	2.96	.01	.001		
3366	"	cG	2	0.164	2.24				
3367	"	cG	2	0.082	2.47				
3368	"	cG	2	0.057	2.54				
3369	"	cG	2	0.088	1.05				
3370	"	cG	2	0.441	1.84				
3371	"	cG	2	0.101	3.59			0.113	0.076
3372	"	cG	2	0.107	4.09			0.126	0.113
3373	"	cG	2	0.151	1.28			0.176	0.163
3374	"	cG	2	0.290	4.10			0.327	0.416
16751	Trench 2	pC	1 true	0.021	0.11				
16752	"	pC	"	0.164	0.66				
16753	"	pC	"	0.158	3.41				
16754	"	pC	"	0.151	0.43			0.170	0.151
16755	"	pC	"	0.139	0.24			0.164	0.189
16756	"	pC	"	0.005	0.14			0.003	0.002
16757	"	pC	"	0.006	0.14			0.006	0.009
16758	"	pC	"	0.057	0.25			0.063	0.050
16759	"	pC	"	0.005	0.11			0.005	0.007
3375	* Trench 3	cG	2	0.004	0.05				
3376	"	cG	2	0.857	3.18				
3377	"	cG	2	0.164	1.93				
3378	"	pC	2.5	0.240	1.96				
3379	"	pC	2.4	0.132	1.00				
3380	"	pC	2.5	0.177	0.40				
3381	"	pC	3.5	2.710	0.93				
3382	"	cG	2	0.013	0.11				
3383	"	cG	2	0.214	0.32				

Note: \* True width of sampling across  
skarn beds in Trench = 5 metres.

Continued ...

TABLE 1. (Continued)

Sample No.	Location	Type	Length (metres)	% WO <sub>3</sub>	% Zn	% Pb	% Sb	% WO <sub>3</sub> Rerun	% WO <sub>3</sub> New Pulp
3384	Trench 4	pC	1 true	0.164	0.81				
3385	"	pC	"	0.485	1.62				
3386	"	pC	"	0.019	0.63				
3387	"	cG	2	0.158	0.50				
3388	"	cG	2	0.001	0.20				
3389	"	pC	1 true	0.214	1.86				
3390	"	cG	3	0.001	0.16				
3392	Trench 5	pC	1 true	0.145	0.59				
3393	"	pC	"	0.120	0.86				
3394	"	pC	"	0.029	0.33				
3395	"	pC	"	0.033	0.30				
3396	"	pC	"	0.001	0.11				
3397	"	pC	"	0.001	0.07				
16696	Trench 6	cG	2	0.126	1.25				
3398	Trench 7	cG	2	0.001	0.96				
3399	"	cG	2	0.170	1.91				
3400	"	cG	2	0.410	1.48				
3349	"	cG	2	0.001	0.06				
3350	"	cG	2	0.120	0.15				
16760	Trench 8	pC	1 true	0.202	3.36				
16761	"	pC	"	0.416	4.17				
16762	"	pC	"	0.082	1.00				
16763	"	pC	"	0.010	0.57				
16795	Trench 9	cG	2	0.019	0.08				
16697	Trench 10	cG	2	0.252	3.83	.01	.002		
16698	"	cG	2	0.530	0.63	.01	.002		
16699	"	cG	2	0.385	2.72	.01	.002		
16700	"	cG	2	0.195	1.34	.01	.001		

Note: cG - continuous grab sample (inadequate outcrop)  
pC - continuous, panel Chip

TABLE 2. Team Claims - A Zone Outcrop  
(Continuous Chip Channel Sampling Results)

Traverse 1. <u>Upper Showings</u>			Traverse 3. <u>Middle Showings</u>		
Taken oblique to strike through skarn zone. (1 metre intervals)			Taken along strike, following trend of skarn. (1 metre intervals)		
<u>Sample No.</u>	<u>% WO<sub>3</sub></u>	<u>% Zn</u>	<u>Sample No.</u>	<u>% WO<sub>3</sub></u>	<u>% Zn</u>
16651	0.845	1.14	16675	0.155	0.67
16652	0.008	1.03	16676	0.170	0.56
16653	0.161	1.23	16677	0.505	0.52
16654	0.280	0.78	16678	0.910	0.57
16655	0.170	0.74	16679	0.735	0.56
16656	0.630	0.35	16680	0.214	0.73
16657	0.790	0.64	16681	0.295	1.12
16658	0.025	0.63	16682	0.255	0.68
16659	0.530	0.36	16687	0.019	1.14
16660	0.151	0.15	16688	0.032	0.78
16661	0.013	0.21	16689	0.190	0.44
16662	0.230	0.09	16690	0.063	0.25
16663	0.008	0.16	16691	0.080	0.45
16664	0.005	0.43	16692	0.165	0.27
16665	0.161	0.18	16693	0.003	0.14
16666	0.145	0.18	16694	0.013	0.22
16667	2.52	0.26	16695	0.003	0.28
16668	0.149	0.17			
16669	0.555	0.18			
16670	1.125	0.17			
16671	0.001	0.16			
16672	0.004	0.09			
16673	0.003	0.14			
16674	0.001	0.10			
16683	0.003	0.41			
16684	0.890	0.54			
16685	0.710	0.35			
16686	0.265	0.20			

Continued ...

TABLE 2. (Continued)

Traverse 2. <u>Lower Showings</u>			<u>Summary of Results - Traverse 1, 2, 3</u>		
Taken perpendicular to strike. (1 metre intervals)					
<u>Sample No.</u>	<u>% WO<sub>3</sub></u>	<u>% Zn</u>	<u>Traverse 1:</u>	<u>% WO<sub>3</sub></u>	<u>% Zn</u>
			Over 28 metres	0.366	0.395
			16651-16662 12 m.	0.319	0.61
			16665-16670 6 m.	0.756	0.19
			16684-16686 3 m.	0.622	0.36
			<u>Traverse 3:</u>	<u>% WO<sub>3</sub></u>	<u>% Zn</u>
			Over 17 metres	0.224	0.55
			16675-16682 8 m.	0.405	0.68
			<u>Traverse 2:</u>	<u>% WO<sub>3</sub></u>	<u>% Zn</u>
			Over 25 metres	0.170	0.37
			16601-16607 7 m.	0.455	0.65
			16615-16617 3 m.	0.168	0.24
			16624-16626 3 m.	0.143	0.43
16601	0.480	1.72			
16602	0.705	0.92			
16603	0.365	0.42			
16604	0.006	0.21			
16605	0.360	0.30			
16606	0.590	0.34			
16607	0.680	0.65			
16608	0.001	0.12			
16610	0.025	0.40			
16611	0.004	0.38			
16612	0.035	0.34			
16613	0.009	1.04			
16614	0.001	0.38			
16615	0.315	0.48			
16616	0.038	0.17			
16617	0.151	0.06			
16618	0.001	0.05			
16619	0.002	0.04			
16620	0.063	0.28			
16621	0.001	0.07			
16622	0.001	0.05			
16624	0.125	0.40			
16625	0.008	0.49			
16626	0.295	0.40			
16627	0.001	0.07			

TABLE 3. Team Claims - A Zone Outcrops  
 (Continuous Chip Sample Results)  
 (All lengths represent True thickness)

Sample No.	Location	Length (metres)	% $WO_3$	% Zn
16801	Lower Showings	1.4	0.150	1.84
16802	"	1.5	1.235	0.30
16803	"	2.0	0.252	0.68
16804	"	2.0	0.113	0.28
16805	"	1.5	0.001	0.14
16806	"	3.0	0.780	0.10
16807	Middle Showings	0 - 1.0	0.240	0.62
16808	"	1 - 2.0	0.440	1.01
16809	"	2 - 3.0	0.280	1.36
16810	"	1.0	0.240	0.67
16811	"	2.6	0.085	0.32
16812	"	3.0	0.063	0.36
16813	Upper Showings	1.5	0.525	0.66
16814	"	1.3	0.138	0.69
16815	"	2.0	0.113	0.36
16816	"	3.0	0.164	0.14

TABLE 4. Team Claims - South Zone  
(Trench Sampling Results)

Sample No.	Location	Type	Length (metres)	% WO <sub>3</sub>	% Zn
3323	Trench 11	cG	2.0	0.004	0.07
3324	"	cG	2.0	0.001	0.05
3325	"	cG	2.0	0.004	0.11
3326	"	cG	2.0	0.004	0.10
3327	"	cG	2.0	0.126	0.75
3328	"	pC	1.0	0.164	0.36
3329	"	cG	2.0	0.132	0.78
3330	"	cG	2.0	0.050	0.37
3331	Trench 12	cG	2.0	0.020	0.13
3332	"	cG	2.0	0.063	0.87
3333	"	cG	2.0	0.029	0.16
3334	"	cG	2.0	0.048	0.24
3335	"	cG	2.0	0.151	0.58
3336	"	cG	2.0	0.028	0.34
3337	Trench 13	cG	2.0	0.132	0.24
3338	Trench 14	pC	1.0	0.006	0.17
3339	"	pC	1.0	0.005	0.18
3340	"	pC	1.0	0.018	0.05
3341	Trench 15	cG	1.0	0.025	0.17
3342	"	cG	2.0	0.014	0.11
3343	"	cG	2.0	0.009	0.08
3344	Trench 16	cG	2.0	0.007	0.97
3345	"	cG	2.0	0.145	1.34
3346	Trench 17	cG	2.0	0.252	1.15
3347	"	cG	2.0	0.126	3.43
3348	"	cG	2.0	0.441	4.99

Note: cG - continuous Grab sample (inadequate outcrop)  
pC - continuous, panel Chip

TABLE 5. Team Claims - South Zone  
(Outcrop Sampling Results)

Sample No.	Location	Type	Length (metres)	% WO <sub>3</sub>	% Sn	Au Oz/Ton
3301	37+80S, 5+60E	cC	1.0	0.001		
3302	40+36S, 5+20E	cG	1.0	0.025		
3303	40+20S, 5+30E	cG	1.0	0.120		
3304	40+15S, 5+20E	cG	1.0	0.001		
3305	40+10S, 5+80E	cC	1.5	0.030		
3306	40+80S, 5+90E	cC	1.5	0.001		
3308	41+40S, 6+10E	cC	0 - 1.0	0.015		
3309	41+40S, 6+10E	cC	1 - 2.0	0.003		
3307	40+90S, 5+90E	cC	1.0	0.010		
3313	37+05S, 5+35E	cG	1.0	0.028		
3314	37+60S, 5+00E	cG	1.0	0.038		
3315	41+70S, 5+70E	cG	1.0	0.008		
3316	41+90S, 5+90E	cG	2.0	0.025		
3318	42+10S, 4+50E	cG	3.0	0.040		
16726	Team South	sG	---	0.002	0.01	.001

Note:

cC - continuous, channel Chip

cG - continuous Grab sample (inadequate  
outcrop)

sG - single Grab sample

TABLE 6. Team Claims - Other Showings

Sample No.	Location	Type	Length (metres)	% WO <sub>3</sub>	% Zn	Ag Oz/Ton	% SnO <sub>2</sub>	Au Oz/Ton
3311	Team Bluff	cG	0.5	0.475				
3312	"	cG	0.5	0.151				
16577	"	sG	---	0.265	2.02	0.02		
3809	Gravel Creek	cC	1.0	0.011				
3810	"	cC	1.25	0.082				
3811	"	cC	0-1.25	0.027				
3812	"	cC	1.25-2.5	0.035				
3813	"	cC	0-1.0	0.158				
3814	"	cC	1-2.0	0.009				
3815	"	cC	1.0	0.014				
3816	"	cC	0-1.0	0.005				
3817	"	cC	1-2.0	0.012				
16739	Team West	sG	---	0.665			0.01	.001
16740	"	sG	---	0.208			0.01	.001
16741	"	sG	---	0.925			0.01	.001
16750	"	sG	---	0.218			0.01	.001
16745	Team North	sG	---	0.186			0.01	.001
16746	"	sG	---	0.340			0.01	.001
16747	"	sG	---	0.520			0.01	.001
16748	"	sG	---	0.330			0.01	.001
16749	"	sG	---	0.740			0.01	.001
16572	"	sG	---	0.550	0.01	0.01		
16573	"	sG	---	0.235	0.23	0.03		
16574	"	sG	---	0.955	1.94	0.02		
16575	"	sG	---	0.380	0.10	0.01		
16576	"	sG	---	0.960	0.36	0.04		

Note: cG - continuous Grab sample (inadequate outcrop)  
sG - single Grab sample  
cC - continuous, channel Chip

## 9. GEOCHEMISTRY

### 9.1 Introduction

The Team grid was enlarged in 1981 by extending the cut baseline 850 metres to the south and running several new cross lines in both north and south sectors of the grid. Approximately 372 soil samples were taken over 16.78 kilometres of new lines.

In the new, western claims area (Team 121-162), a total of 102 soil samples were taken over 4.6 kilometres of flag and compass grid.

In the new northern claims area (Team 163-206), 170 soil samples were taken along an informal grid and contour line.

All results are discussed separately below.

### 9.2 Team Grid

#### 9.2.1 Tungsten Geochemistry (Figure 13)

The northeastern grid sampling did not extend the A Zone tungsten soil anomaly to the north beyond 13+00S. Moderate glacial drift may be masking the potential A Zone north extension.

The southern grid extension results are more favourable. Many anomalous tungsten values are recorded south from 40+00S to 48+00S. Downslope migration of tungsten in soils is possible but the extent and distribution of the tungsten anomaly indicates a probable bedrock source.

#### 9.2.2 Zinc Geochemistry (Figure 14)

In the northeastern grid area, results of zinc soil geochemistry failed to extend the A Zone anomaly to the north.

In the southern grid extension, highly anomalous zinc geochemistry was obtained with values reaching 4700 ppm zinc. The large zinc anomaly coincides with favourable tungsten geochemistry.

### 9.3 Team West Grid

#### 9.3.1 Tungsten-Zinc Geochemistry (Figure 15)

Results from soil sampling in the Team West area failed to isolate further tungsten mineralization through geochemistry. Heavy overburden and poor grid placement resulted in no tungsten soil anomalies. Similar results for zinc were obtained.

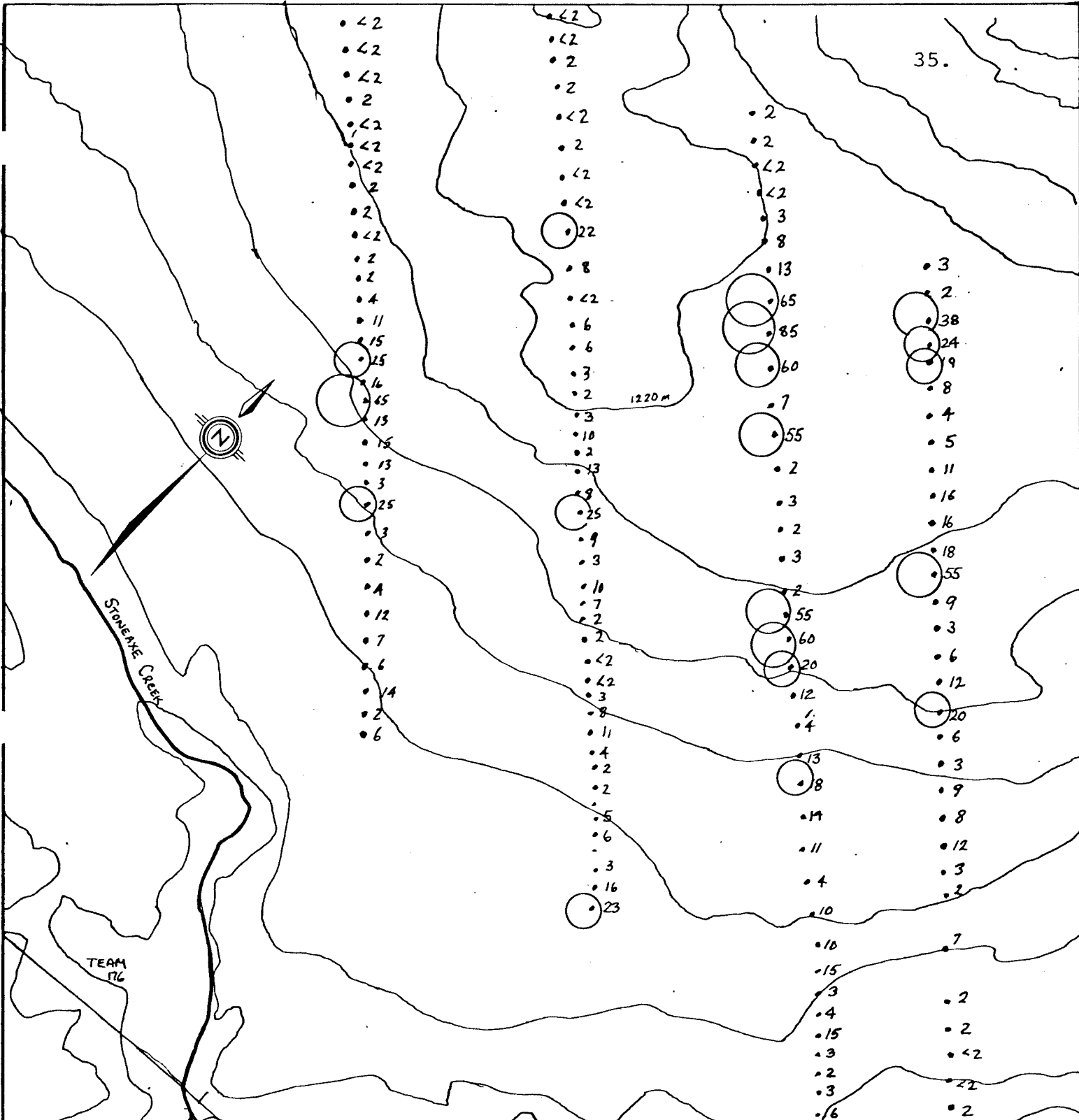
Geological mapping is recommended in the area prior to further soil sampling.

### 9.4 Team North




#### 9.4.1 Tungsten Geochemistry (Figure 16)

Approximately 15% of samples taken along 3 parallel sample lines are considered moderately (20-90 ppm tungsten) anomalous in tungsten. The results indicate that tungsten





.55 Soil sample ppm W

-  > 60 ppm
-  35-59 ppm
-  18-34 ppm

<b>SEREM LTD.</b>		
<b>SELWYN BASIN</b>		
<b>TEAM NORTH</b>		
<b>W SOIL GEOCHEMISTRY</b>		
DATE FEB 82	REV.	
NTS 105B 15	DATA	DR. DGD
SCALE 1:10,000		FIGURE
0 100 200 500m		<b>16</b>



mineralization is present but not very significant over large areas. Contour soil sampling to the north of the claim boundary revealed no tungsten anomalies.

Further soil sampling is not recommended. Geological mapping and chip sampling of mineralized outcrops is recommended.

#### 9.4.2 Tin Geochemistry (Figure 17)

Results of tin geochemistry are not considered anomalous. Isolated values of up to 55 ppm tin were obtained from the Team North sampling.

### 10. GEOPHYSICAL (MAGNETOMETER) SURVEY

A proton magnetometer survey, using the Geometric's back pack model, was carried out over the entire Team grid. Results are plotted on Figure 18 and interpreted as 39 line profiles in Figure 19. Very significant magnetometer highs were obtained in the South Zone over lines 38+00S through 42+00S. Pyrrhotite + magnetite skarn appears to be the cause for the 5000 gamma plus leap in values over an indicated strike length of 400 metres.

Elsewhere, more subtle magnetometer responses (highs and lows) were recorded to the north of the Team Bluff showings (line 28+00S) and near the Baseline showings from 5+00S to 15+00S.

## 11. CONCLUSIONS

The Team 1-206 mineral claims cover favourable geology and tungsten mineralization over a wide area in the Gravel Creek region of south-central Yukon.

Work to date has outlined one or two very significant zones of tungsten (scheelite) mineralization that warrant subsurface testing. Grades of 0.3%  $WO_3$  to 0.8%  $WO_3$  are common along significant dimensions in a large showing area known as A Zone. Maximum grades from 1 metre chip samples reach 2.710%  $WO_3$ .

In South Zone, tungsten grades and skarn development are much lower at surface than at A Zone. However, at depth, in closer proximity to the intrusive, the potential for economic concentrations of tungsten is viewed as very favourable.

Elsewhere on the property, several showings warrant further work to evaluate their full mineral potential. Of these, the Team West, Team North, Beaver Pond, and Team Bluff showings exhibit the best tungsten grades and the most favoured geological setting.

Besides the surface showings, the extensively covered portions of the property that are located in a favourable geological setting (projected) may host significant tungsten skarn mineralization. Considerations to this possibility should be given in the future exploration of the property.

In concluding, the Team 1-206 mineral claims should be retained in their entirety and further work, including diamond drilling, is strongly recommended.

## 12. RECOMMENDATIONS

The following work is recommended for the Team 1-206 mineral claims in 1982:

### 12.1 Surface

Geological mapping and controlled sampling of the Team North, Team West and Team Bluff tungsten skarn showings. Minor hand trenching should be carried out where necessary to assist in this evaluation.

### 12.2 Diamond Drilling

A 610-metre (2000') diamond drill program is recommended for subsurface testing of the A and South Zone showings.

Four holes of 70 to 90 metres length are recommended for A Zone and two holes in excess of 100 metres are proposed for the South Zone.

The proposed drill holes are plotted on Figures 4 and 5.

The proposed length of the 6 holes will vary according to the depth at which the intrusive contact is encountered.

*Mike Stammers*

## APPENDIX 1

LIST OF PERSONNELTEAM 1-206 MINERAL CLAIMS

<u>Name/Position</u>	<u>Residence</u>	<u>Dates Worked (1981)</u>
Melanie Boulding, Prospector	Nanaimo, B.C.	July 8-9, 11, 25 August 30 Sept. 1, 18-21
David Coffin, Prospector	Vancouver, B.C.	July 5
Michael Cullen, Field Assistant	Vancouver, B.C.	June 4-10, 17-21, 23 July 11-23, August 5-6, 19-21, 23
Elmer DeBock, Prospector	Clearwater, B.C.	June 29 July 1, 13-14, 25-26, 29-30 Aug. 1, 7-10, 12, 16, 28 Sept. 19-21
Stephen Falls, Field Assistant	Don Mills, Ontario	June 4-10, 15-25 July 16, 18, 23 Aug. 4, 7-10, 12-21, 23-26
Daniel MacIsaac, Jr. Prospector	Victoria, B.C.	June 4-13, 15-21, 23, 25, 29 July 1, 7-9, 16-23 Aug. 6-18
Shirley McIntosh, Cook	Pemberton, B.C.	June 4-10, 15-25 Aug. 23-26 Sept. 2-5
Peter Newman, Prospector	North Vancouver, B.C.	July 1-2, 7, 17-18
Margot Sangster, Field Assistant	Vancouver, B.C.	June 4-10, 13, 15-21 July 1, 6, 8-14, 23-25, 29 Aug. 14-15, 20-21, 23 Sept. 2-5, 19-21
Michael Stammers, Geologist/Party Chief	Port Coquitlam, B.C.	June 4-10, 13, 15-17 July 6-7, 13-14, 18, 25, 30 Aug. 1, 4-5, 19-20, 28, 30-31 Sept. 4-7, 18-21

Continued ...

## APPENDIX 1 (Continued)

LIST OF PERSONNELTEAM 1-206 MINERAL CLAIMS

<u>Name/Position</u>	<u>Residence</u>	<u>Dates Worked (1981)</u>
Peter Tegart, Geologist/Manager	North Vancouver, B.C.	June 13 July 13-18 Aug. 4-5
Mohan Vulimiri, Geologist	North Vancouver, B.C.	June 13, July 16-20, 25-27, 30

APPENDIX 2

STATEMENT OF COSTS

TEAM 1-206 MINERAL CLAIMS

WAGES

Field:

Manager/Geologist	9 days @ \$200/day	\$1,800.00
Party Chief/Geologist	34 days @ \$115/day x 1.55	6,060.50
Geologist	10 days @ \$125/day x 1.55	1,937.50
Sr. Prospector	19 days @ \$117/day x 1.35	3,001.05
Sr. Prospector	5 days @ \$100/day x 1.35	675.00
Sr. Prospector	1 day @ \$100/day x 1.35	135.00
Jr. Prospector	10 days @ \$ 80/day x 1.35	1,080.00
Jr. Prospector/Asst.	45 days @ \$ 72.50 x 1.35	4,404.38
Field Assistant	32 days @ \$ 62.50 x 1.35	2,700.00
Field Assistant	40 days @ \$ 62.50 x 1.35	3,375.00
Field Assistant	40 days @ \$ 55/day x 1.35	2,970.00
Cook	26 days @ \$ 95/day x 1.35	<u>3,334.50</u>

\$31,472.93

Office:

Party Chief/Geologist	15 days @ \$115/day x 1.35	\$2,328.75
Geologist	5 days @ \$125/day x 1.35	843.75
Drafting/Secretarial	1 man month	<u>1,500.00</u>

\$ 4,672.50

TOTAL WAGES

\$36,145.43

ROOM AND BOARD

(Including pilot)	300 x \$20/day	\$ 9,000.00
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TRANSPORTATION

Charter Helicopter	51.1 hr. @ \$350/hr	\$17,885.00
Helicopter Fuel		
(cost at Stoneaxe L.)	51.1 hr. @ \$140/hr	7,154.00
Fixed Wing	12 trips @ \$450/trip	5,400.00
Truck + Gas (Watson Lake)		300.00
Crew Transport -		
CP Air (Return)	5 trips @ \$350/trip	<u>1,750.00</u>

\$32,489.00

Continued ...

APPENDIX 2 (Continued)

STATEMENT OF COSTS

TEAM 1-206 MINERAL CLAIMS

ANALYSIS

Assays	- Rock	\$4,709.00
Geochemistry	- Soil	3,722.15
Shipping	- 2,326 lb. x \$.50/lb.	<u>1,163.00</u>

\$ 9,594.15

GEOPHYSICAL EQUIPMENT RENTAL

\$ 340.00

MISCELLANEOUS OFFICE AND FIELD SUPPLIES

\$ 700.00

TOTAL TEAM 1-206

\$88,268.58

ESTIMATED BREAKDOWN OF EXPENSES:

TEAM	1 - 98	\$58,256.26
TEAM	99 - 120	\$ 8,826.86
TEAM	121 - 206	\$21,185.46

APPENDIX 3

GEOCHEMICAL METHODS AND ANALYSIS

Soil samples were collected in Kraft sample bags and sent to Min-En Laboratories Ltd., North Vancouver, B.C. These samples were then dried and sieved to -80 mesh. A portion of the -80 mesh material was then analyzed by methods appropriate for each element, as listed below:

Zn - Nitric, perchloric digestion -  
A.A. Analysis

Sn, W - Fusion - Colorimetric

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

Pb, Zn, Ag,  $WO_3$ , Sn, Sb - Acid digestion  
- chemical analysis

Au - Fire - A.A. Finish

## APPENDIX 4

### GEOPHYSICAL METHOD

Readings were taken every 25 metres in the magnetometer survey along the grid lines. The survey was done with a Model G-826 portable Proton Magnetometer made by Geometrics. The sensor was used in the backpack arrangement.

APPENDIX 5

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.

AFFIDAVIT

IN THE MATTER OF APPLICATION FOR CERTIFICATE OF WORK  
FOR THE TEAM 1-206 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:

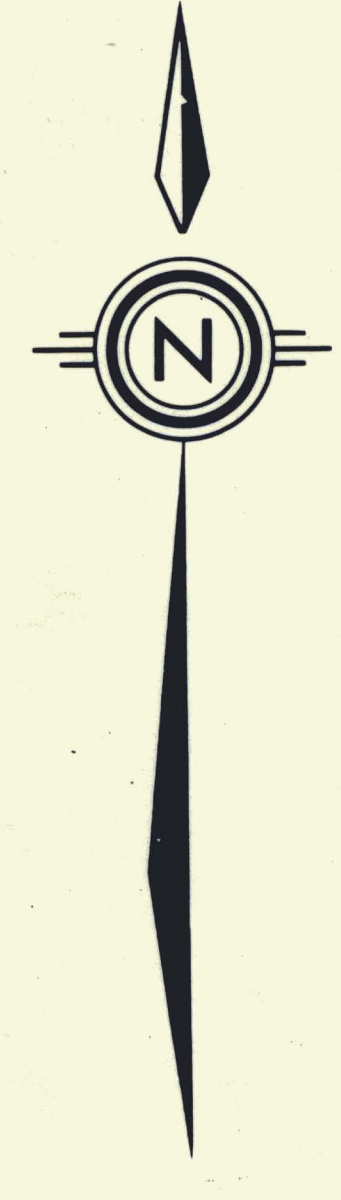
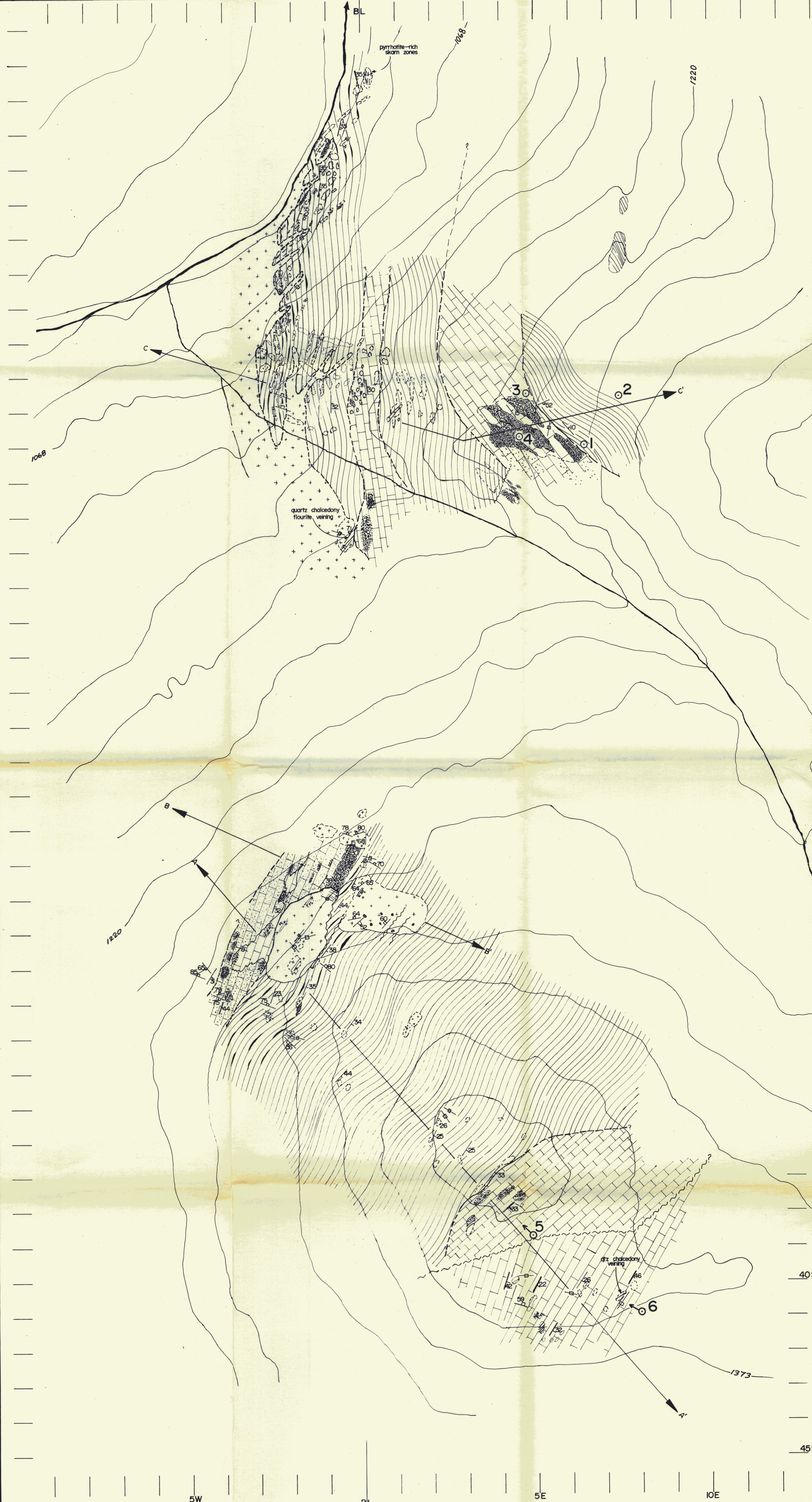
The preceding SUMMARY OF COSTS totalling \$88,268.58  
which is submitted in support of the Application for  
Certificate of Work, is the actual amount incurred by  
SEREM Ltd., in conducting a geological, geochemical and  
a geophysical program on the TEAM 1-206 Mineral Claims,  
Watson Lake Mining District, during the 1981 field  
season.

AND THAT Application for Certificate of Work is attached for  
the following Representation Work:

<u>MINERAL CLAIMS</u>	<u>GRANT NUMBERS</u>	<u>AMOUNT APPLIED</u>
TEAM 1- 98 incl. (98 claims x 4 years each)	YA54683-780 incl.	\$39,200.00
TEAM 99-120 incl. (22 claims x 4 years each)	YA56406-427 incl.	\$ 8,800.00
TEAM 121-128 incl. TEAM 129-206 incl. (86 claims x 2 years each)	YA66709-716 incl.) YA66719-796 incl.)	\$17,200.00
	Total applied	\$65,200.00
	Balance of Cost Unapplied	\$23,068.58

SWORN BEFORE ME at )  
WATSON LAKE , this (5<sup>th</sup> day )  
of April , 19 82 . )  
)  
)  
\_\_\_\_\_  
Notary Public

*Michael Stammers*  
\_\_\_\_\_  
Michael Stammers



**LEGEND**

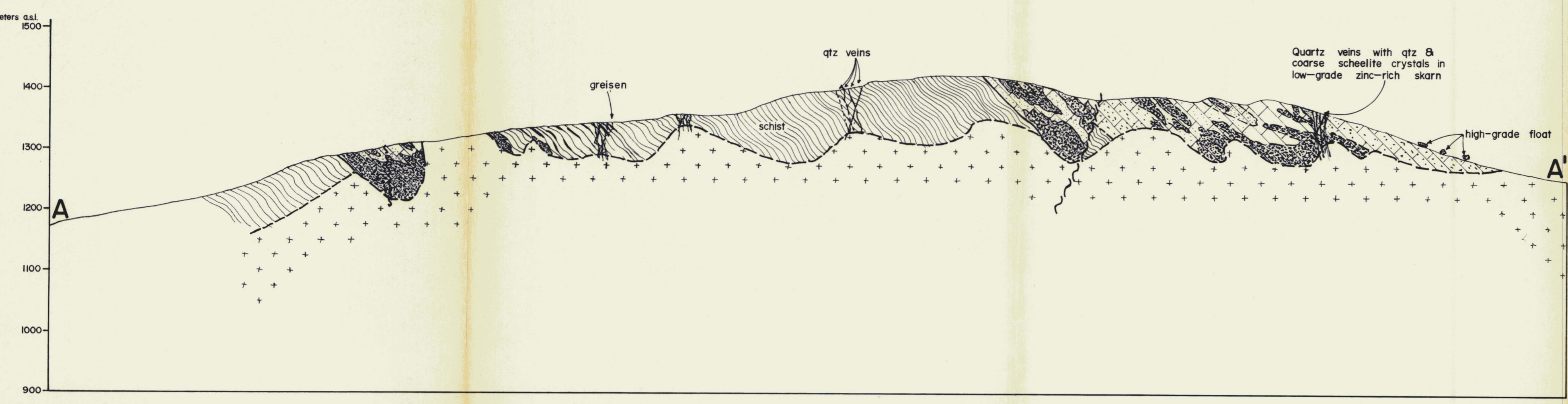
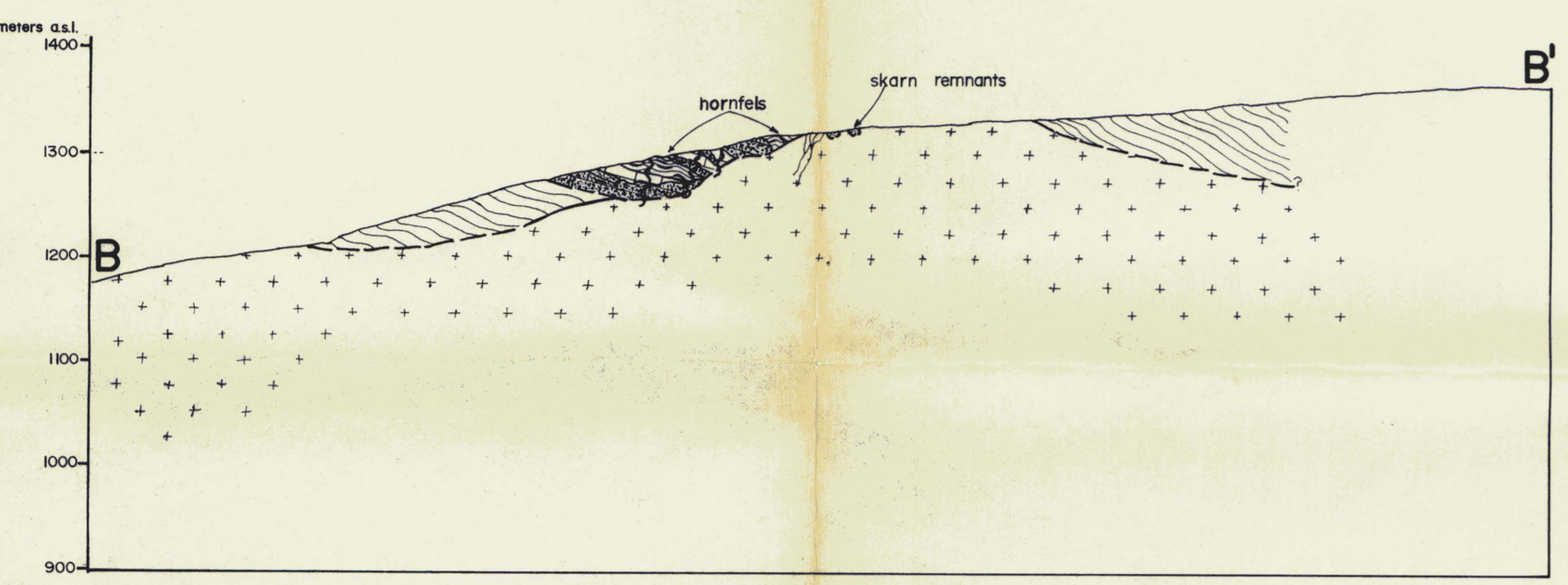
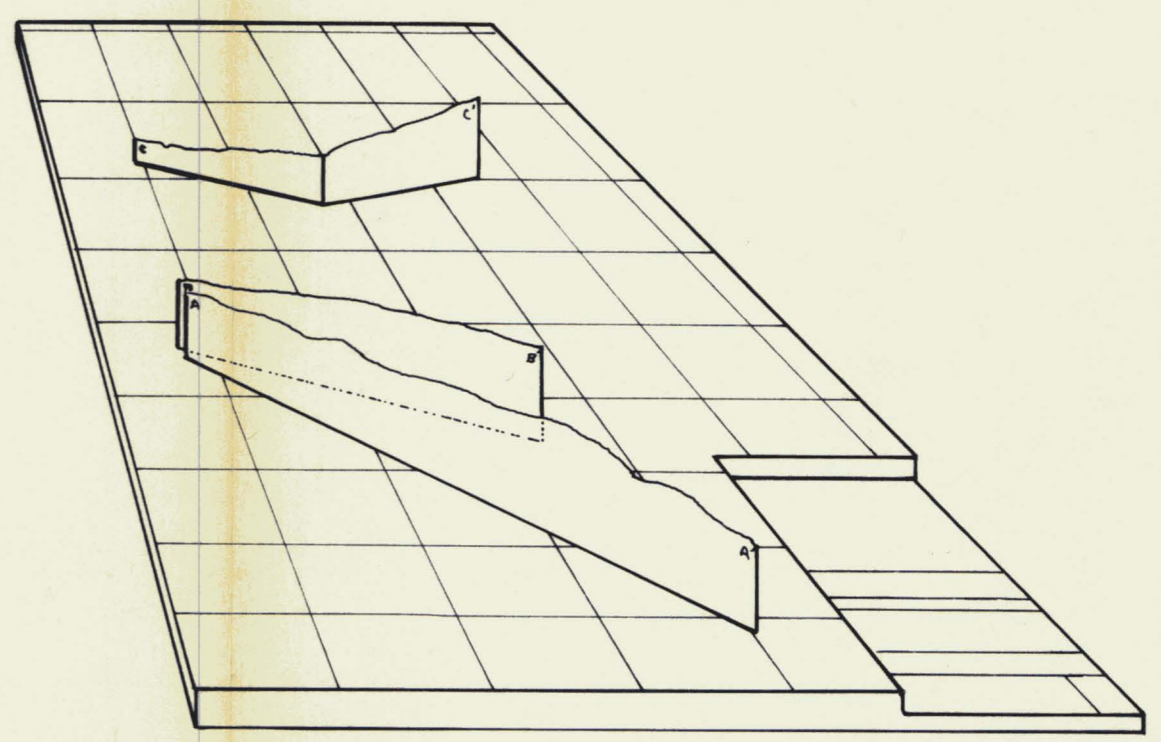
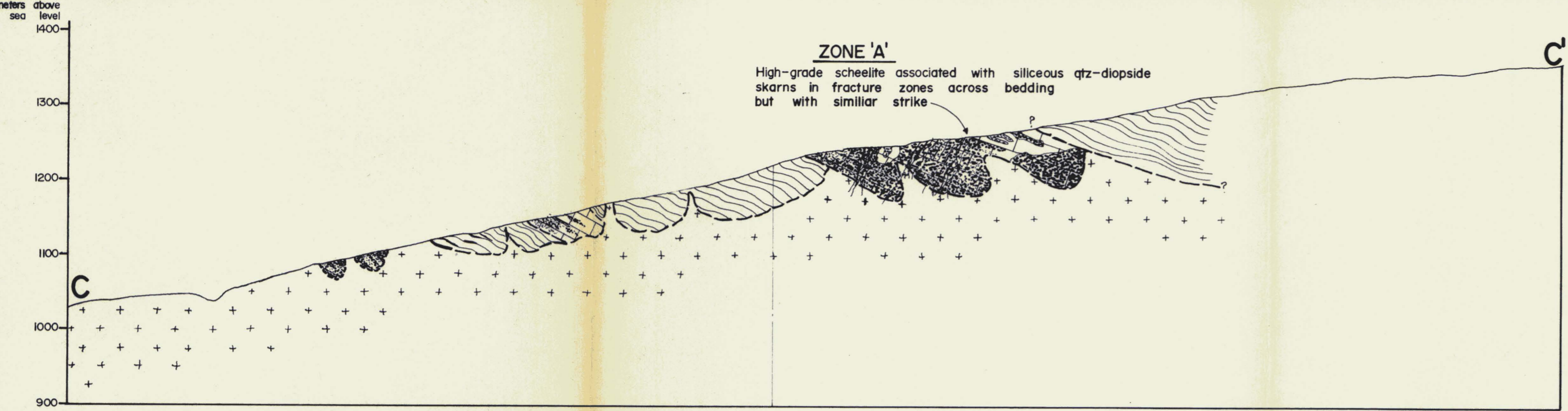
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	SILICEOUS ZONES IN SKARN & OR GREISEN ZONES IN INTRUSION AND IN PELTIC SCHISTS
	QUARTZ OR CHALCEDONY VEINING
	CARNET-DIOPSIDE SKARN
	FANDED LOWER GRADE WOLLASTONITE-ACTINOLITE DIOPSIDE-GARNET-SKARN
	RECRYSTALLIZED LIMESTONE
	CALCAREOUS BIOTITE-MUSCOVITE SCHISTS
	PELTIC BIOTITE-MUSCOVITE SCHISTS
	STRIKE & DIP OF BEDDING
	STRIKE & DIP OF JOINTS AND FRACTURE SYSTEMS
	GEOLOGICAL CONTACT
	OUTLINE OF OUTCROPS
	FAULT ZONE
	SECTION
	PROPOSED DIAMOND DRILL HOLE (VERTICAL)
	PROPOSED DIAMOND DRILL HOLE (INCLINED)

**S.E.R.E.M. LTD.**

PROJECT **SELWYN BASIN**

TITLE **TEAM CLAIMS (SOUTHEAST ZONES) GEOLOGY** 091011

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NTS 105B/10	DRAWN DED	
SCALE 1 : 5 000	CHECKED	<b>4</b>



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[Symbol]	GARNET MINOR DIOPSIDE SKARN
[Symbol]	SILICEOUS ZONES IN SKARN & OR GREISEN ZONES IN INTRUSION AND IN PELITIC SCHISTS
[Symbol]	QUARTZ OR CHALCEDONY VEINING
[Symbol]	GARNET—DIOPSIDE SKARN
[Symbol]	BANDED LOWER GRADE WOLLASTONITE—ACTINOLITE DIOPSIDE—GARNET—SKARN
[Symbol]	RECRYSTALLIZED LIMESTONE
[Symbol]	CALCAREOUS BIOTITE—MUSCOVITE SCHISTS
[Symbol]	PELITIC BIOTITE—MUSCOVITE SCHISTS
[Symbol]	GEOLOGICAL CONTACT (known, inferred)
[Symbol]	FAULT (known, inferred)

**SEREM LTD.**

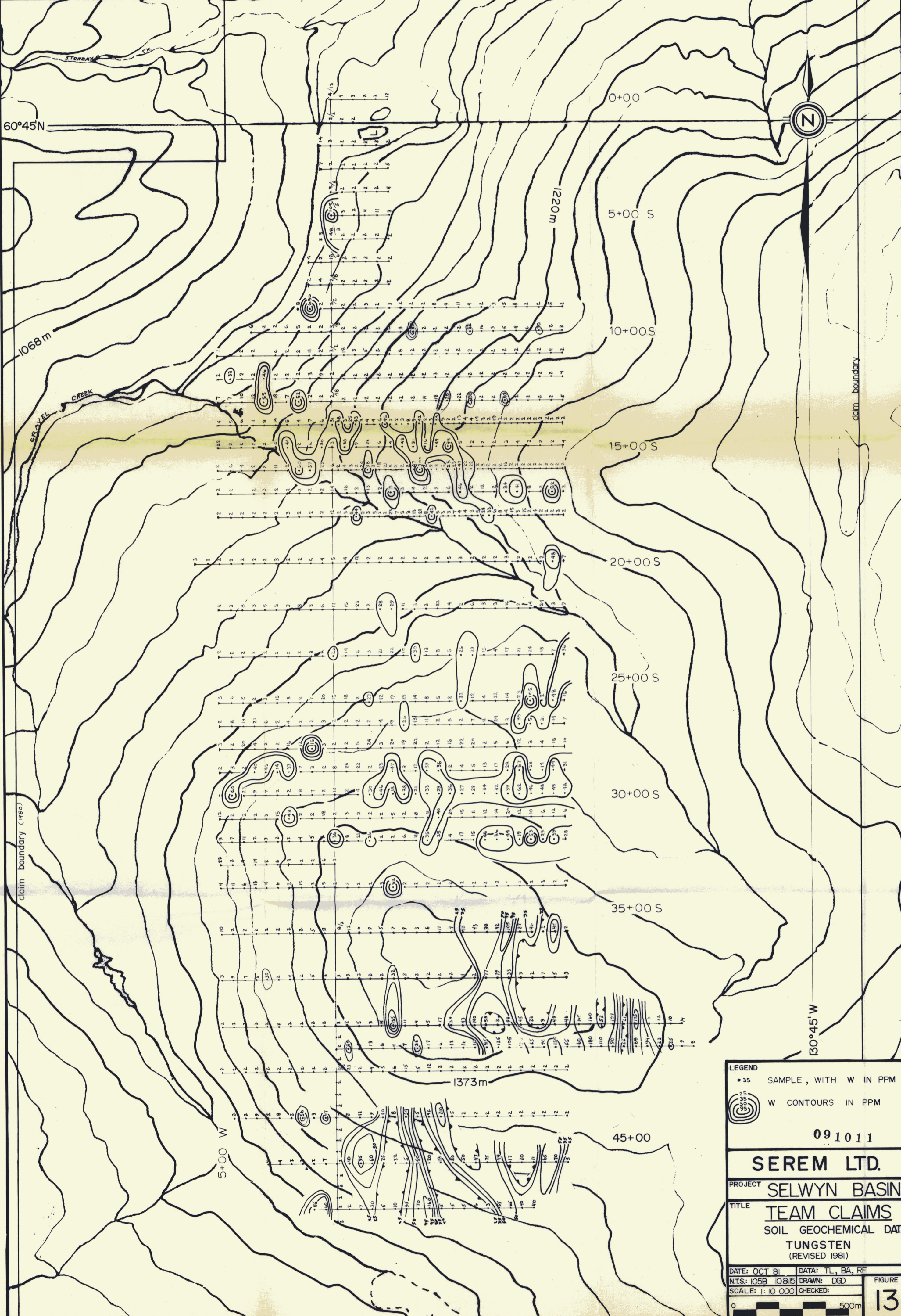
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TITLE **TEAM CLAIMS (SOUTHEAST ZONES) 091011 SECTIONS**

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0 500m

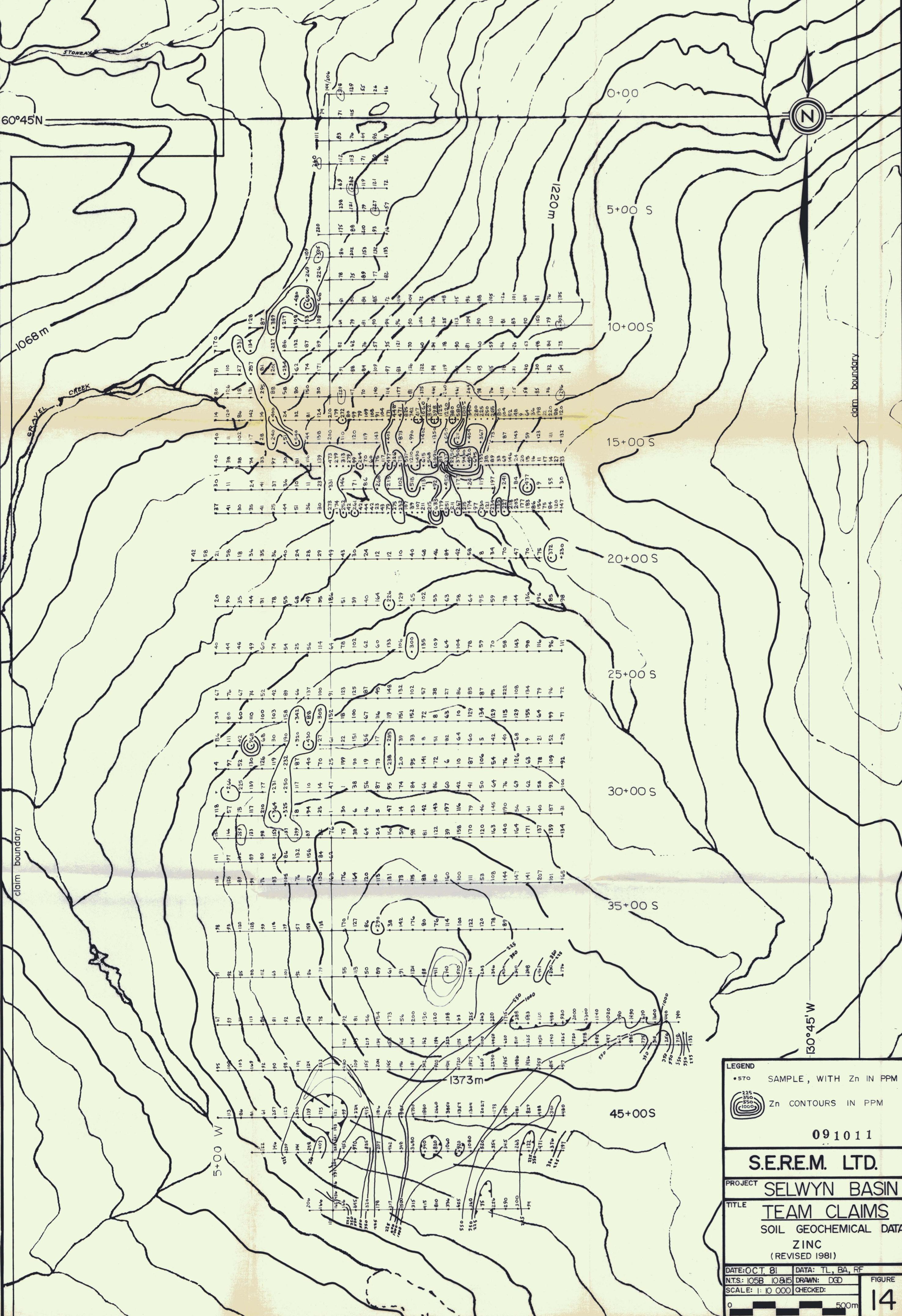
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claim boundary (1980)

claim boundary

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	W CONTOURS IN PPM
091011	
<b>SEREM LTD.</b>	
PROJECT <b>SELWYN BASIN</b>	
TITLE <b>TEAM CLAIMS</b>	
<b>SOIL GEOCHEMICAL DATA</b>	
<b>TUNGSTEN</b>	
(REVISED 1981)	
DATE: OCT 81	DATA: TL, BA, RF
N.T.S.: 1:10 000	DRAWN: DGD
SCALE: 1:10 000	CHECKED:
0  500m	
<b>FIGURE 13</b>	



60°45'N

130°45'W

**LEGEND**

- 570 SAMPLE, WITH Zn IN PPM
- Zn CONTOURS IN PPM

091011

**S.E.R.E.M. LTD.**

PROJECT **SELWYN BASIN**

TITLE **TEAM CLAIMS**  
SOIL GEOCHEMICAL DATA  
ZINC  
(REVISED 1981)

DATE: O.C.T. 81 DATA: TL, BA, RF

N.T.S.: 1:10000 DRAWN: DGD

SCALE: 1:10000 CHECKED:

FIGURE **14**

claim boundary

claim boundary

0+00

5+00 S

10+00 S

15+00 S

20+00 S

25+00 S

30+00 S

35+00 S

45+00 S

1068m

1220m

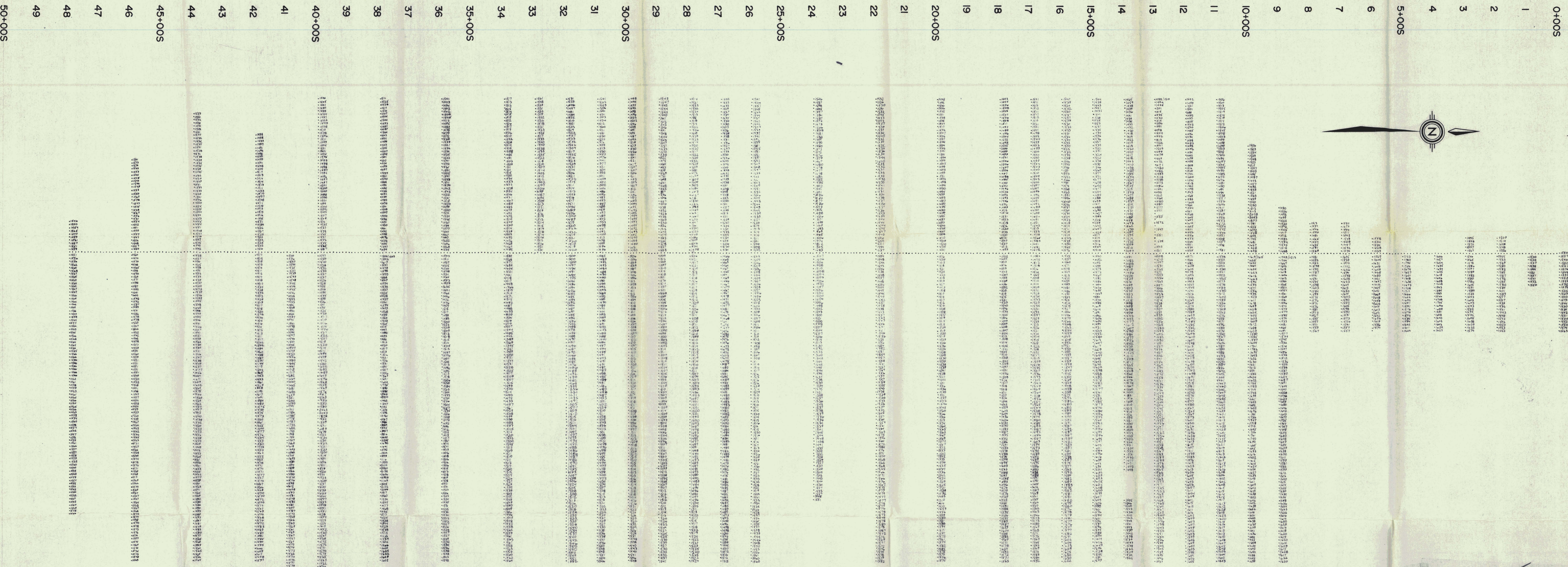
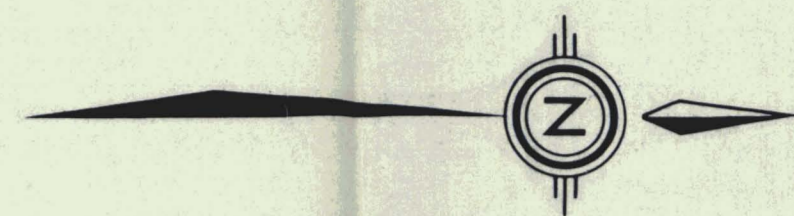
1373m

5+00 W

STONEWALL CREEK

GRAVEL CREEK

6  
5+00W  
4  
3  
2  
1  
0+00E  
1  
2  
3  
4  
5+00E  
6  
7  
8  
9  
10+00E



LEGEND

Base value of plotted readings is 57,000 gammas, e.g.,  
1568 = 58,568 - 57,000

Magnetometer reading location. In most cases, reading interval  
is 10 metres.

See figure 10 for interpretation

091011

**SEREM LTD.**  
PROJECT: **SELWYN BASIN**  
TITLE: **TEAM CLAIMS:  
PROTON MAGNETOMETER SURVEY**  
DATE: NOV 1981  
N.T.S.: 1:5,000  
DRAWN: C.G.  
CHECKED:

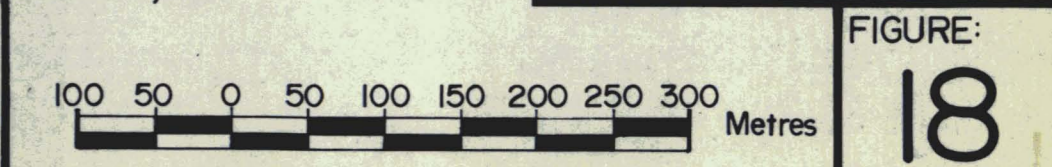
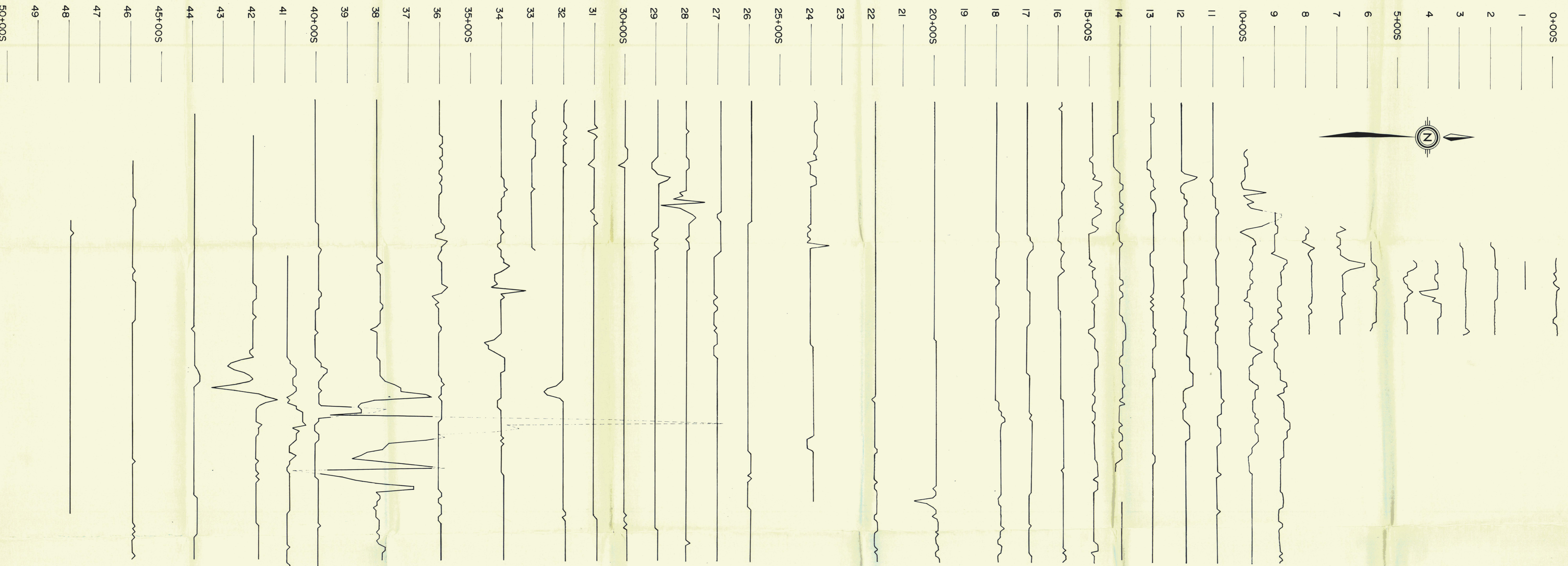


FIGURE:  
**18**

6  
5+00W  
4  
3  
2  
1  
0+00E  
1  
2  
3  
4  
5+00E  
6  
7  
8  
9  
10+00E



**LEGEND**  
The base value for each profiled grid line is 58,500 gammas. Each reading from figure 9 was plotted to the nearest 50 gamma mark, with 2 mm in horizontal distance (of contour lines) equal to a 50 gamma jump.  
e.g., 091011

**SEREM LTD.**  
PROJECT: **SELWYN BASIN**  
TITLE: **TEAM CLAIMS:  
PROTON MAGNETOMETER SURVEY**

DATE: NOV 1981	DATA: M.S.
N.T.S.: 1:5000	DRAWN: C.G.
SCALE: 1:5,000	CHECKED:

FIGURE: **19**