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14560

GEOLOGICAL, GEOCHEMICAL and GEOPHYSICAL  
ASSESSMENT REPORT

on the

MOUNT THORNHILL GOLD PROSPECT

(THORN 1-6 CLAIMS)

Skeena Mining Division - British Columbia

Lat. 54° 28' N. 07/86 Long. 128° 26' W.

N.T.S. 103 I/8W

**FILMED**

for

SEASTAR RESOURCE CORPORATION  
**GEOLOGICAL BRANCH  
ASSESSMENT REPORT**

**14,560**

by

Donald G. Allen, P. Eng. (B. C.)

07/86

September 16, 1985

Vancouver, B. C.

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## SUMMARY

Seastar Resource Corporation holds the Mount Thornhill gold prospect near Terrace, British Columbia. The property consists of 94 claim units. They cover the ridge between Zymoetz River, Sockeye Creek and Eight Mile Creek. Gold-silver occurrences are numerous and widespread. They are developed by a number of open cuts and short adits. Reported production in 1918 from the Beaver-Lucky Seven prospect (on the Thorn 5 and 6 claims) is 200 ounces of gold from 100 tons of ore. The property was worked periodically up until the 1930's but has remained idle since.

The Mount Thornhill Gold prospect lies along the eastern margin of the Coast Plutonic Complex. The claims are underlain by Paleozoic sedimentary rocks which are intruded by four phases of granodiorite and diorite and by dikes of andesite, quartz diorite and quartz-feldspar porphyry. Quartz veins locally containing galena, sphalerite, tetrahedrite, free gold and sheelite occur in faults and shear zones in the granodiorite and in schistose roof pendants.

Reconnaissance geochemical soil sampling, prospecting and VLF-electromagnetic surveys were carried out by D. G. Allen, J. Cuvelier and D. Sorensen on June 27 to 28, 1985.

## CONCLUSION

Numerous occurrences of gold and silver occur in faults, quartz veins and breccia zones on the Thorn claims. Gold values are in general low, but pods with spectacular free gold have been reported. Past work has consisted only of test pitting and production from open cuts and limited underground workings. Considering the abundance of showings, wide distribution, and presence of gold, silver, lead and zinc geochemical anomalies, a detailed exploration program consisting of geological mapping and geochemical sampling is warranted.

## INTRODUCTION

The Mount Thornhill property is situated ten kilometres southeast of Terrace, British Columbia. The property consists of 94 claim units. The claims cover a number of gold vein prospects formerly known as the Beaver, Lucky Seven, A, B, Ptarmigan, Society Girl and St. Paul prospects. These prospects are part of the numerous gold, silver, lead, zinc, copper, molybdenum and tungsten deposits that lie along the eastern margin of the Coast Plutonic Complex.

Most of the previous work in the claim area was conducted during the periods 1914-1918, 1920-1921, 1924-1926, 1928 and 1933. Work consisted of underground development in a number of adits up to seventy feet long, trenching, and limited production. Recorded production from the Beaver-Lucky Seven (on the Thorn 3 and 5 claims) is 200 ounces of gold from 100 tons of ore. The adjacent Globe-Iron Hat prospect has a recorded production of 51 ounces gold and 42 ounces silver from 30 tons of ore.

This report summarizes results of prospecting, geochemical sampling and VLF-electromagnetic surveys carried out by D. G. Allen, D. Sorenson and J. Cuvelier during the period June 27 to 28, 1985. Snow conditions at the time hampered work. An orthophoto and topographic base map were prepared by Triathlon Mapping Corporation and all data, old and new, were plotted on the base map.

### LOCATION, ACCESS, PHYSIOGRAPHY

The Mount Thornhill gold prospect is situated ten kilometres southeast of Terrace (Figure 1). The claims cover the Mount Thornhill-Mount Attree ridge which lies between Sockeye Creek, Eight Mile Creek and Zymoetz River (Figure 2). Except for the broad open ridge area, slopes are moderately steep and are cut by steep-walled narrow canyons cut by torrential creeks. The lower valley slopes of Sockeye Creek have been logged, but elsewhere they are covered with a virgin growth of hemlock, cedar, balsam fir and minor spruce with a light undergrowth of alder, huckleberry and false azalea.

Elevations range from 500 to 5,050 feet (150 to 1550 metres). The northwestern part of the property is accessible by the road which leads to a microwave tower on the Mount Thornhill ridge to the north of the property.

### CLAIM OWNERSHIP

The property consists of 94 claim units (Thorn 1-6, Figure 3). They are registered in the name of Seastar Resource Corporation. Claim data are as follows:

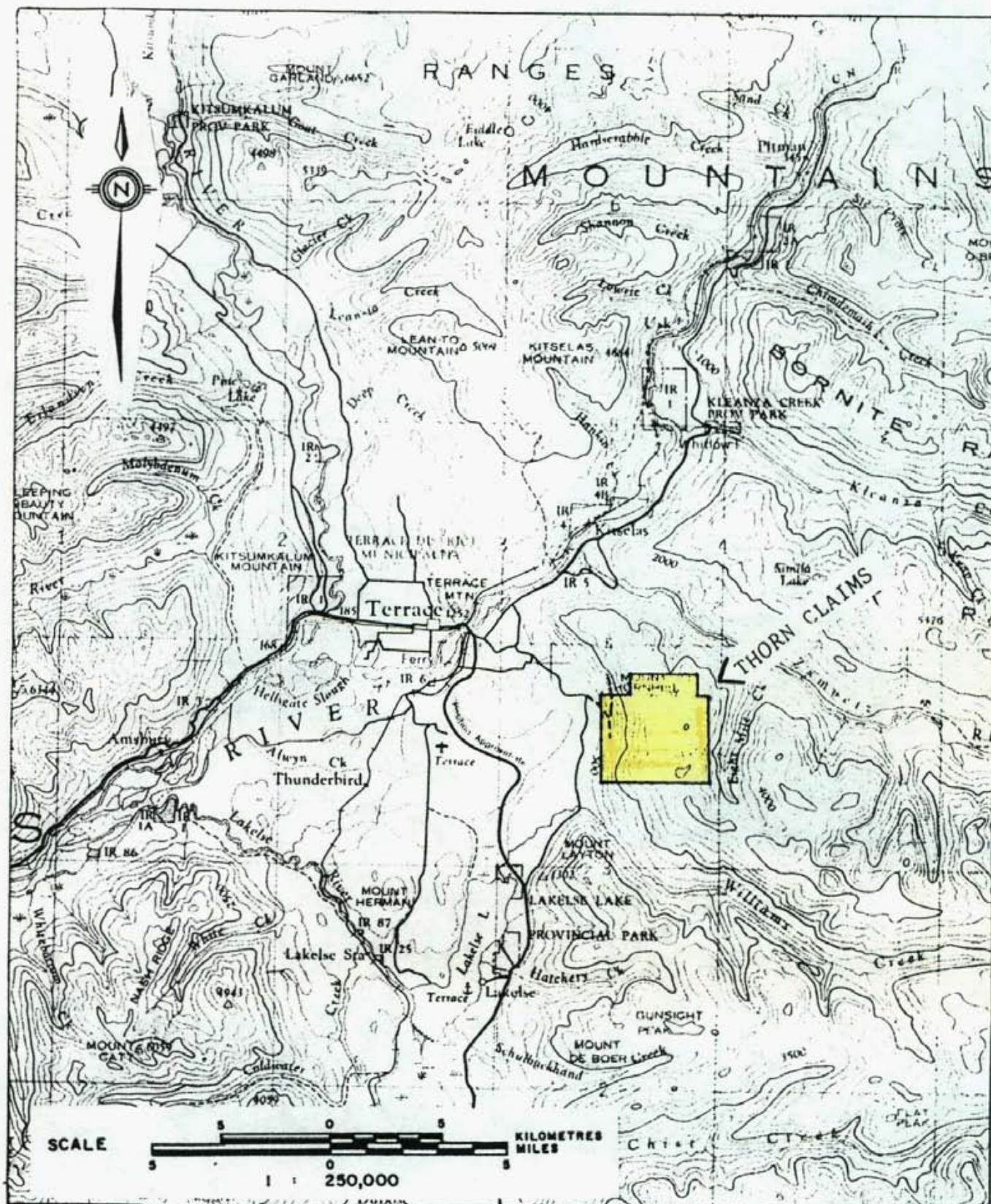
<u>Claim Name</u>	<u>Record Number</u>	<u>No. of Units</u>	<u>Expiry Date</u>
Thorn 1	3922	4	June 30, 1985*
Thorn 2	3923	10	June 30, 1985
Thorn 3	3924	20	June 30, 1985

SEASTAR RESOURCE CORP.  
THORN CLAIMS  
LOCATION MAP



FIGURE - 1





SEASTAR RESOURCE CORPORATION

N.T.S. 103-1

## ACCESS MAP

THORN CLAIMS

Skeena Mining Division - British Columbia

<u>Claim Name</u>	<u>Record Number</u>	<u>No. of Units</u>	<u>Expiry Date</u>
Thorn 4	3925	20	June 30, 1986
Thorn 5	3926	20	June 30, 1986
Thorn 6	3927	20	June 30, 1986

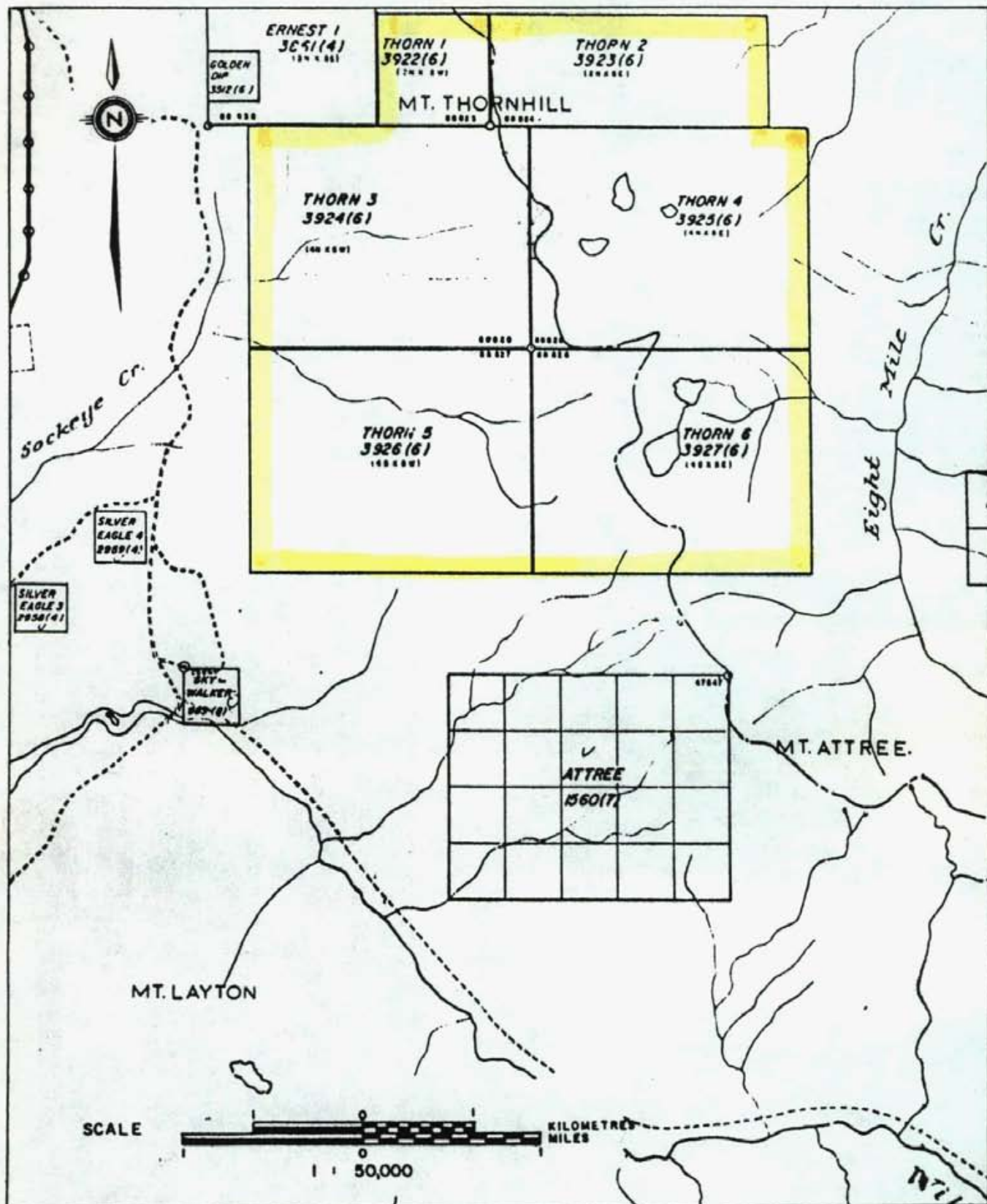
\*Assuming this assessment report is accepted.

### GEOLOGY

The Thorn claims are in the Terrace Map Area of Duffell and Souther (1964). The property lies along the eastern margin of the Coast Plutonic Complex where it intrudes Paleozoic and Mesozoic sedimentary and volcanic rocks. According to Duffell and Souther, sedimentary rocks of Permian and/or earlier age including greenstone, shale and limestone outcrop on the northern part of the Thorn 1 and 2 claims. The remainder of the claim group is underlain by plutonic rocks comprising various phases of granodiorite and diorite. Various types of dike rocks include quartz diorite, andesite, quartz-feldspar porphyry and lamprophyre.

### MINERALIZATION

The gold occurrences on Mount Thornhill have been described in numerous Annual Reports of the B.C. Department of Mines and much of the past work has been summarized by Hanson (1925), Marshall (1926), and Kindle (1937). The following summary is based mainly on Kindle. The various prospects



N.T.S. 103-1/8W

SEASTAR RESOURCE CORPORATION  
**CLAIM MAP**  
 THORN CLAIMS

Skeena Mining Division - British Columbia

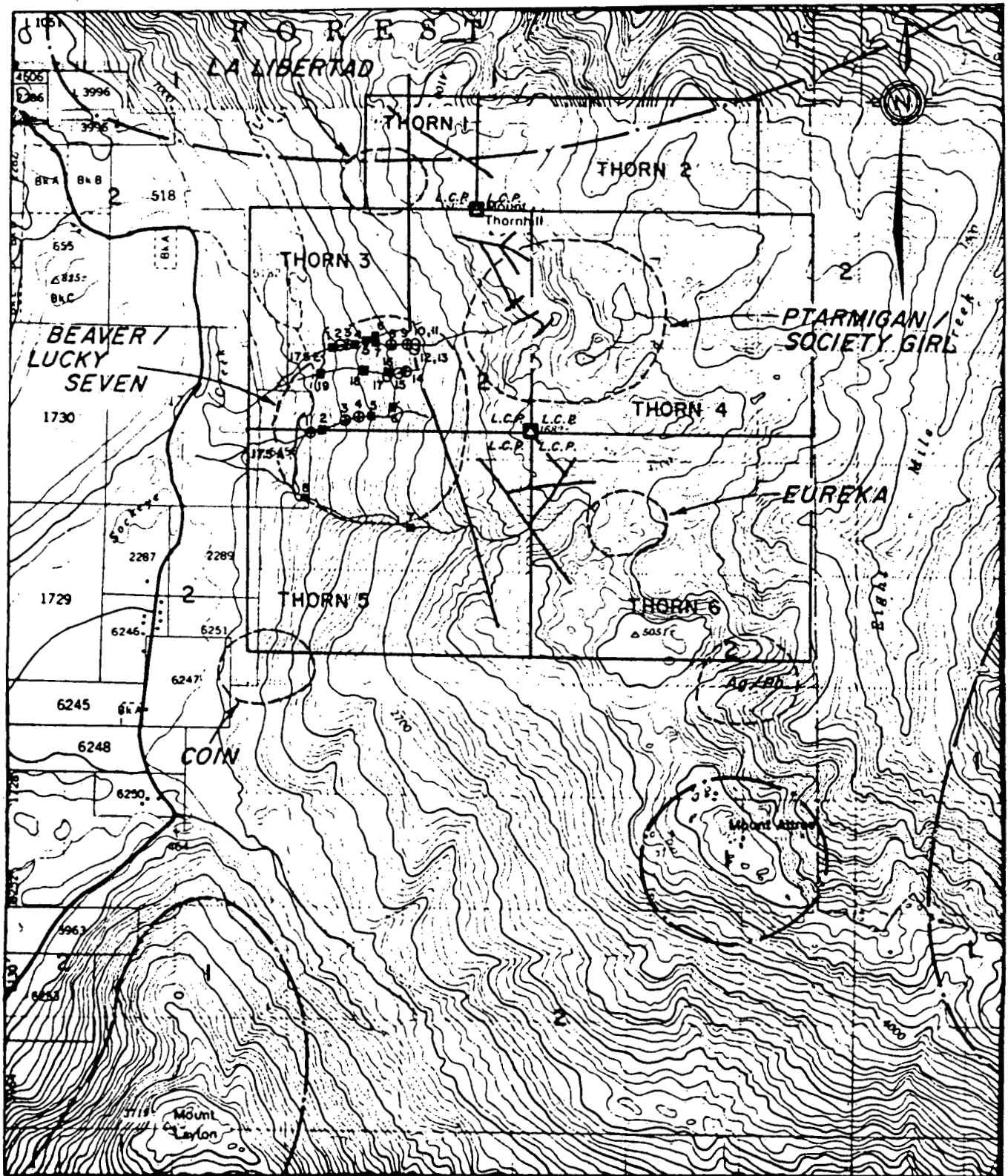
*Donald S. Allen*  
**A.M. exploration Ltd**

are plotted on Figure 4. Their positions are plotted from descriptions from the above reports. The Lucky Seven, Ptarmigan-Society Girl and Golden Nib showings were located but, because of snow and collapsed workings, could not be examined in detail. The Society Girl showing, where exposed on the Mt. Thornhill-Mt. Attree ridge, was examined and sampled.

#### Beaver-Lucky Seven (A & B)

Flat lying quartz veins are reported to occur at an elevation of about 3,200 feet (Figure 5a). The veins occur in granodiorite at the junction of quartz diorite and quartz-feldspar porphyry dikes. Small rich pockets of free gold are reported in a vein on the south side of a creek bed. Reported production from this vein is \$4,000 in free gold (200 ounces). Gold values of up to 0.46 ounces per ton and silver values of up to 108.7 ounces per ton occur in a barite-quartz gangue. Kindle states that additional pockets of free gold might be found by driving along the vein in a southeastly direction.

On the B claim at an elevation of 3,025 feet a north-easterly dipping vein averages 2.5 feet wide (often to six feet). It is locally mineralized with pyrite, sphalerite and galena. Channel samples are reported to range from trace to 0.10 oz/ton gold and 1.73 ounces silver.



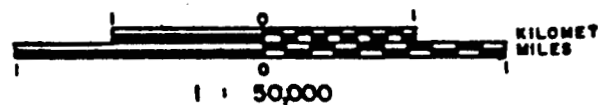
N.T.S. 103 1/8, 9

**LEGEND**

- Silt sample site, sample number; (175 A and 175 E series).
- Soil sample site, sample number.
- Rock sample site, sample number.
- Lineaments
- Mineral showings (approx. locations).
- Geological contact.
- COAST PLUTONIC COMPLEX  
Granodiorite, diorite.
- PERMIAN AND/OR EARLIER  
Sedimentary and volcanic rocks.

**SEASTAR RESOURCE CORP.  
THORN CLAIMS  
GEOLOGY AND  
SAMPLE SITES**

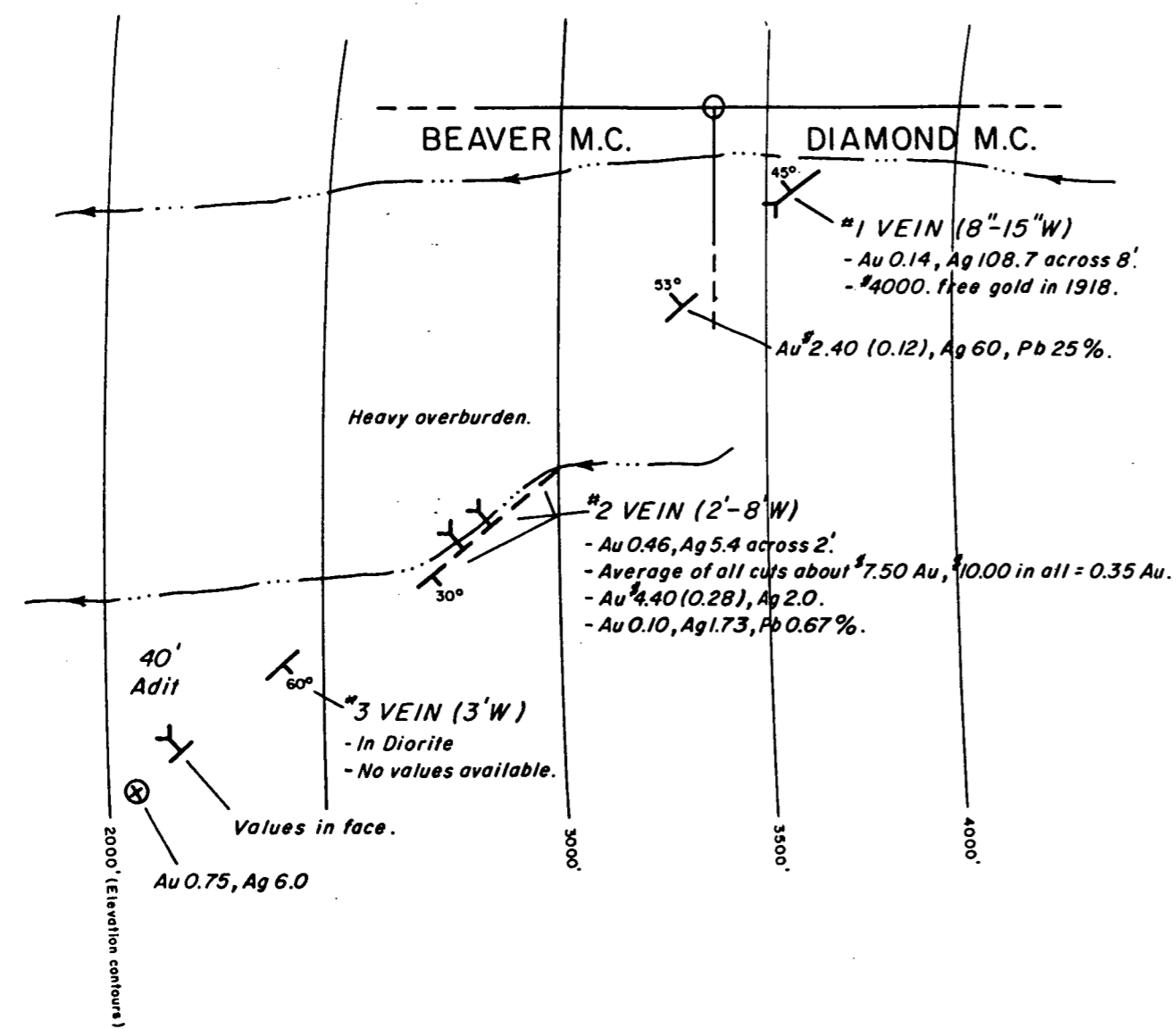
SCALE



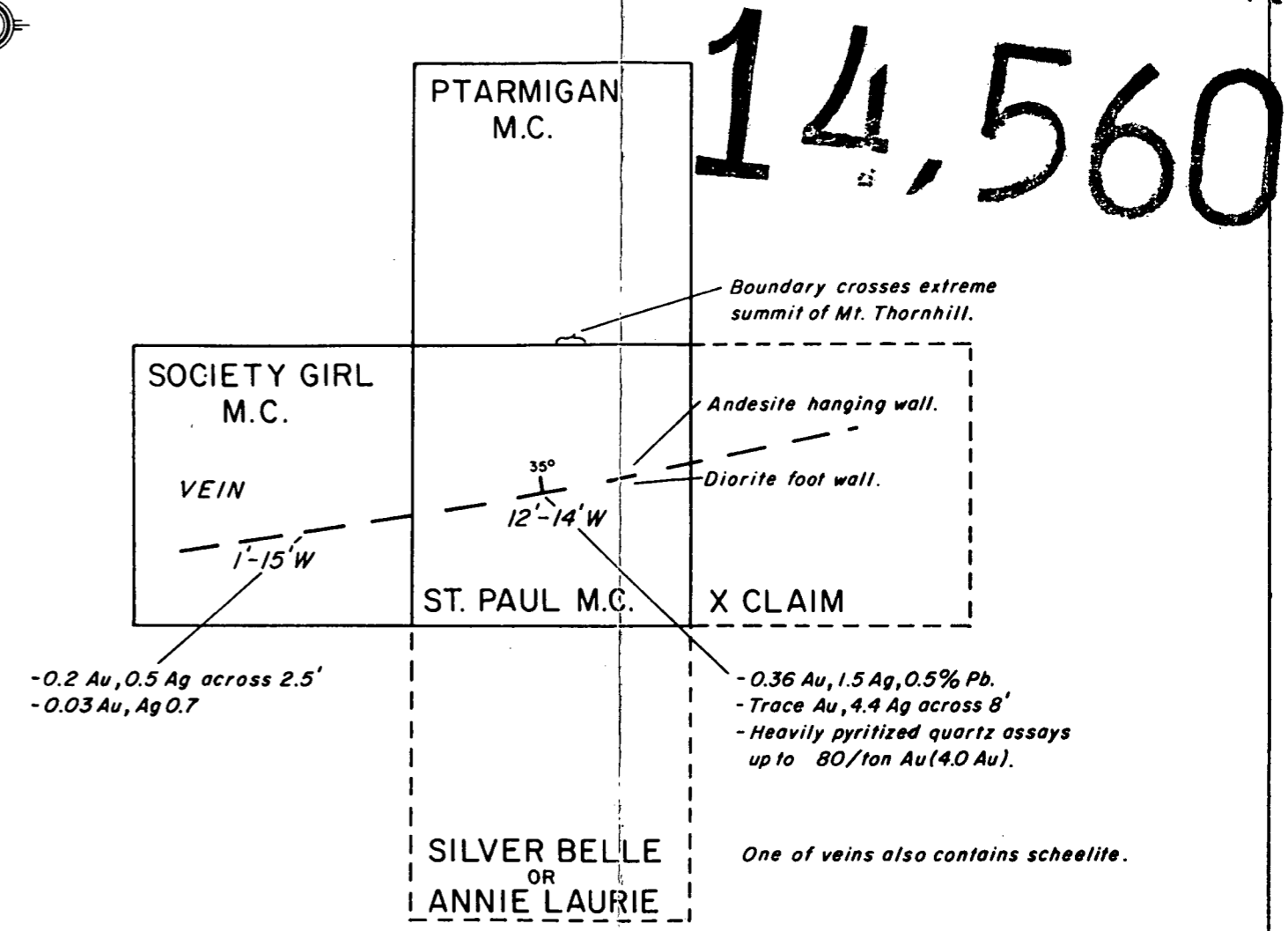
**exploration Ltd.**

Figure 4

5a. LUCKY SEVEN / BEAVER



5b. PTARMIGAN / SOCIETY GIRL



14,560

N.B. Sketches derived from old notes. Accuracy uncertain - Not to Scale.

Au, Ag values plotted are in ounces per ton; 1918 dollar values quoted.

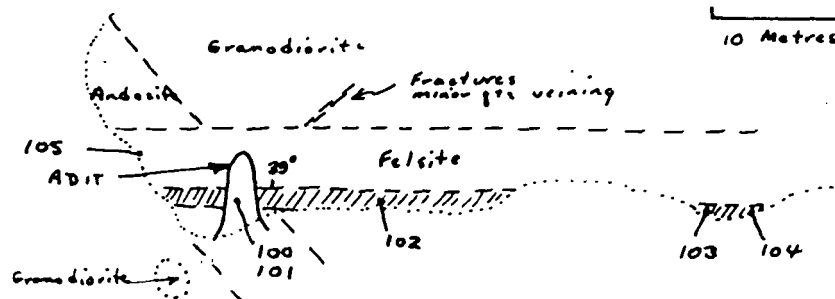
SEASTAR RESOURCE CORP.  
THORN CLAIMS  
ROUGH SKETCH  
OF  
MINERAL SHOWINGS

*Donald S. Allen*  
A.M. exploration Ltd

*St. Paul?*

Society Girl-Ptarmigan

The Society Girl showing lies on the Mt. Thornhill-Mt. Atree ridge. Results are presented in Figure 6b. The vein on the old Society Girl claim was reported to be one to fifteen feet in width and has been reported to have been panned from it in different places. A "typical" sample reported by the B.C. Department of Mines (Annual Report for 1914, p. 113) grades 0.36 oz/ton gold, 1.5 oz/ton silver and 0.5% copper. Where observed on the ridge, (see Figure 6b), the vein is 0.2 to 1.4 metres wide. It lies along the south contact of an east-west trending felsite dike which intrudes massive biotite granodiorite and an andesite dike (see Sketch Map). The vein lies along a prominent air photo lineament (Figures 6a and 6b) but snow conditions prevented confirming the persistence of the vein along strike. Several channel samples were taken of the vein. Assay results and sample descriptions are summarized in Table 1.



LEGEND

- ⊙ Outerop boundary
- Geological contact
- 101 Sample site, sample number
- 35° Vein dip

SKETCHMAP  
SOCIETY GIRL SHOWING  
GEOLOGY & SAMPLE SITES

The St. Paul claim covers a quartz vein, presumably the same as on the Society Girl, which averages about twelve to fourteen feet in width. Pyrite-rich samples have assayed up to \$80/ton (4 oz./ton gold - 1918 B.C.D.M Ann. Rept., p. 50).

Quartz outcroppings similar to that on the Society Girl are reported on the Silver Belle claim which was on the south side of the Society Girl.

#### Annie Laurie

The Annie Laurie claim was situated on the south side of the St. Paul claim. According to Kindle, a rock trench 25 feet long, four feet wide and five feet deep on the claim has been cut along a quartz lens enclosed in grey granodiorite "Scheelite is sparingly scattered through the white garnet and is in the form of irregularly shaped nodules one to two inches in diameter. In specimens on the dump, sphalerite, galena, pyrite and free gold were seen, the gold occurring in weathered covies in the quartz."

#### Golden Nib-Globe-Star

The Golden Nib prospect occurs off the northwest corner of the Thorn claims. It is probably covered by the Golden Dip claim (Figure 3). Lens shaped bodies of quartz, some mineralized with pyrite, occur in a shear zone five to 15 feet wide and about 1,000 feet long. A thirty ton shipment



from workings on this prospect gave net returns of 1.6 oz/ton gold, 1.4 oz/ton silver and 1.1% copper (B.C. Dept. Mines Ann. Rept. for 1928, p. 76).

#### La Libertad

The La Libertad prospect lies between elevations 4,700 and 5,000 feet. Two northeast trending faults contain quartz veins up to eighteen inches wide. Seams of chalcopyrite, grey copper and galena occur locally in the vein samples and have been reported to carry low to good values of gold and silver.

#### Coin

The Coin claim was situated near the southwest corner of the Thorn 5 claim. Kindle states:

"A quartz vein occurs in granodiorite at an elevation of 800 feet. It strikes south 80 degrees east and dips 30 degrees northeast into a steep slope. The vein is exposed for a distance of about 80 feet and has an average width of about 14 inches. Midway along the vein exposure a 20-foot adit has been driven. On the face of the adit the granodiorite above the vein has been altered over a width of 3 feet. It is bleached and silicified and is impregnated with fine-grained pyrite."

Assays reported by Kindle range from 0.01 to 0.02 oz/ton gold and 0.06 to 1.04 oz/ton silver.

### Eureka

Molybdenite occurs at the Eureka prospect over an area of about 100 by 200 feet. It occurs and is associated with muscovite, tourmaline, pyrite and epidote as nodules and disseminated grains in granite and pegmatite dikes.

### Silver-lead Showing

A quartz vein containing galena, pyrite and chalcopyrite is reported by Marshall to occur near the southeast corner of the Thorn 6 claim. The vein is 1 to 1.5 feet wide, horizontal and can be traced for sixty feet. A brecciated zone 100 feet wide and made up of a number of small quartz veins up to six inches wide is also reported in the area.

### 1985 WORK PROGRAM

Work carried out in 1985 included prospecting, geochemical sampling and reconnaissance VLF-electromagnetic surveys. Results of sampling of the Society Girl showing are described above.

### GEOCHEMICAL SAMPLING AND ASSAYS

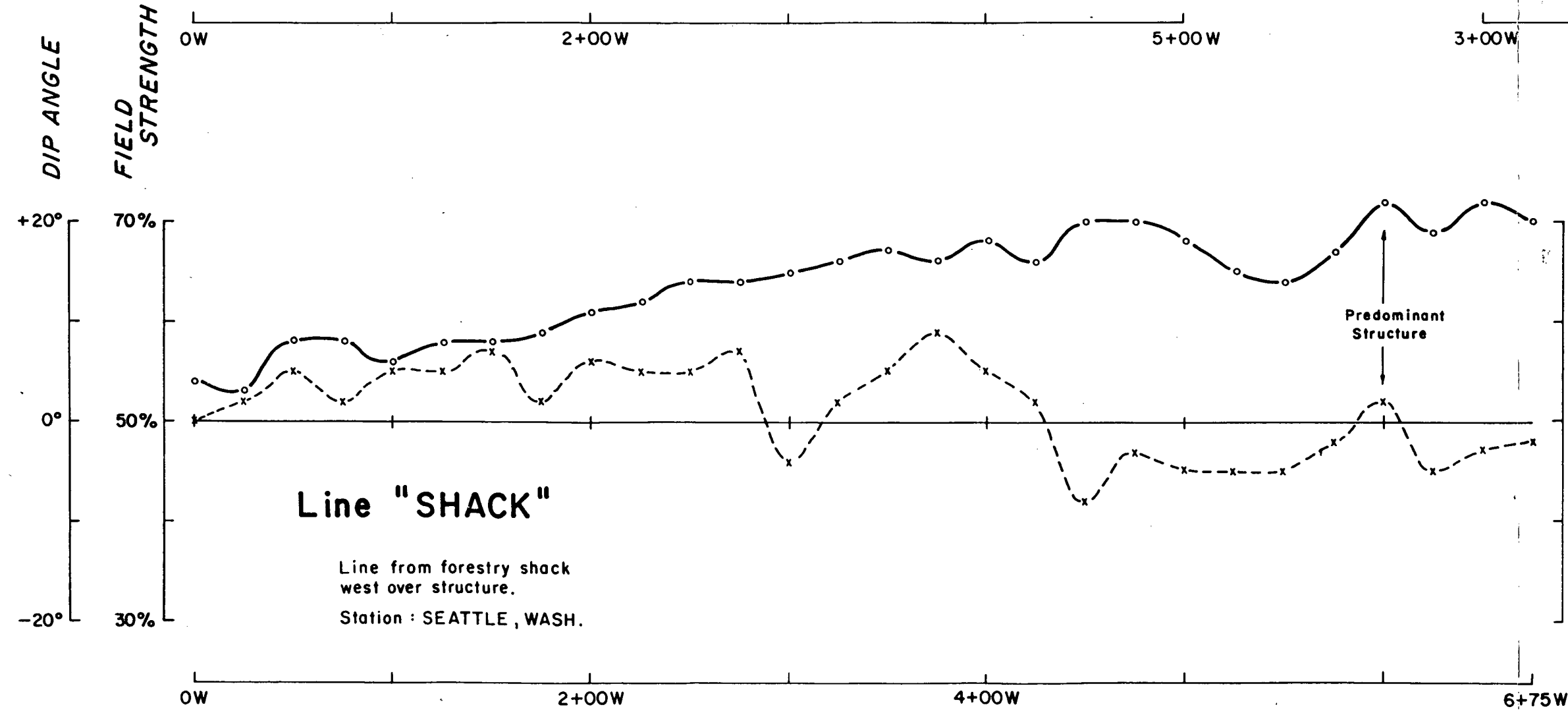
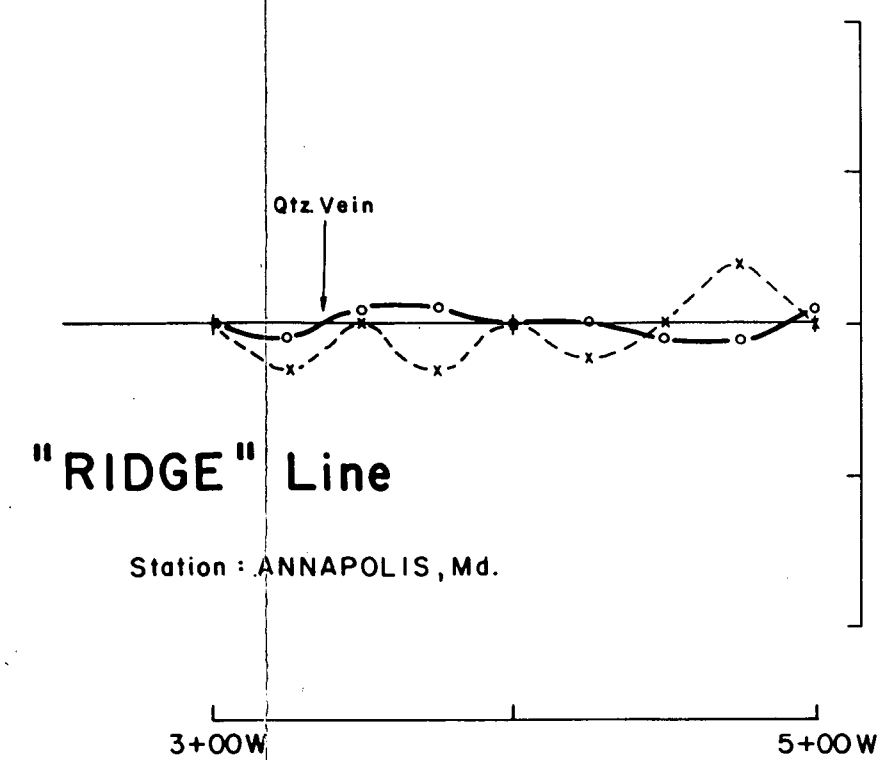
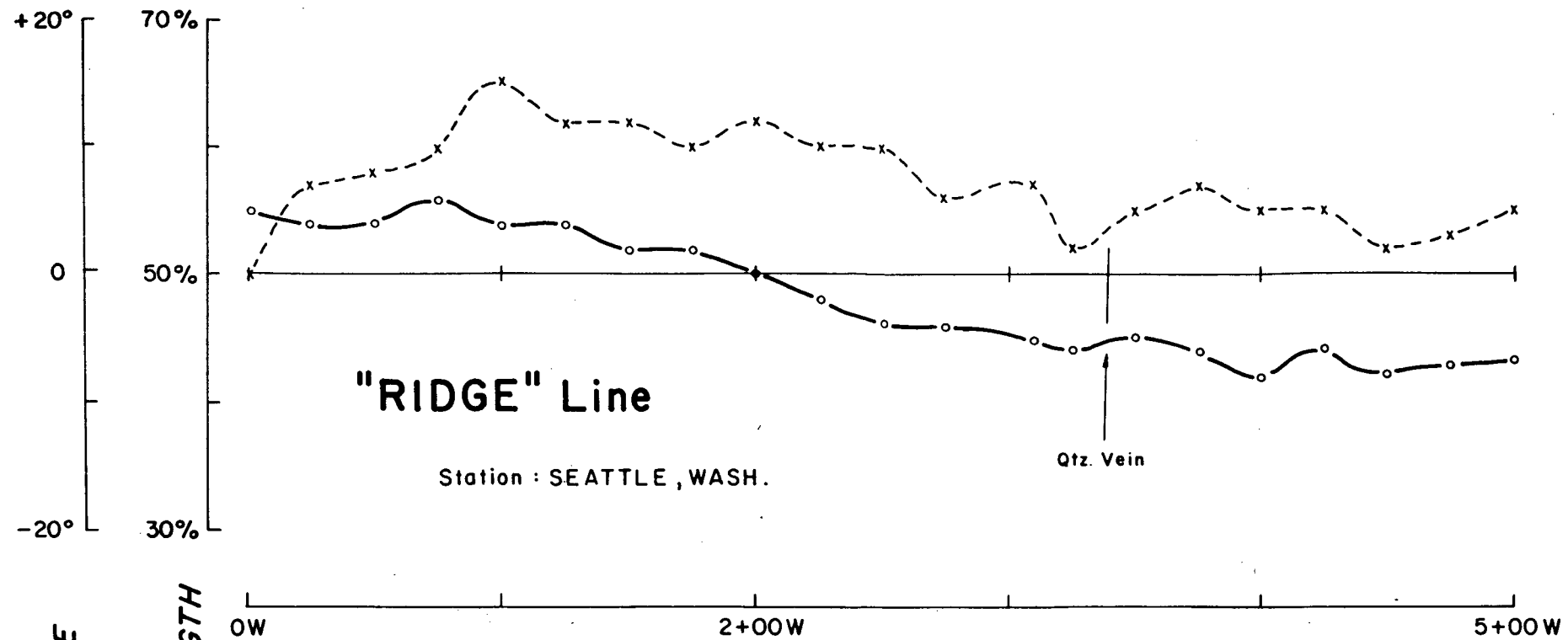
A total of 19 soil and silt samples were taken on and to the west of Thorn 1 and 3 claims in an attempt to locate the La Libertad showing. Soil material consisted of "B"


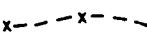

horizon material taken at depths of 20 centimetres or more. Parent material was glacial till or talus fines. Silt samples consisted of fine material taken from the active parts of stream channels. Soil or silt material was placed in Kraft paper bags and shipped to Rossbacher Laboratory Ltd. and analyzed for Mo, Cu, Ag, Zn, Pb and Au by atomic absorption techniques. Sample sites and selected analytical results are plotted on Figures 6a and 6b along with 1984 sample data. Results are also included in Appendix I.

Analytical results indicate that most elements are at near average crustal abundances. Possible exceptions are copper values of 238 ppm (silt sample A 93) and silver values of 0.8 ppm and 1.0 ppm (silt sample A 93, soil sample A 97A).

#### VLF-ELECTROMAGNETIC RESULTS

A total of 1.4 l/km of VLF-electromagnetic surveys were completed over the claims area. The program was designed to test some of the old showings to determine if they had any high frequency conductors associated with them. A Sabre Model 27 VLF-EM receiver tuned to Seattle, Washington or Annapolis, Maryland was used for all observations. Dip angle and relative field strengths were observed at 25 metre intervals on three separate lines. The data is plotted in profile form on Figure 7.



Conductor   
Field Strength   
Dip Angle 

Instrument : Sabre Model 27 VLF-EM  
**GEOLOGICAL BRANCH**  
**ASSESSMENT REPORT**  
Date : June 26, 1985

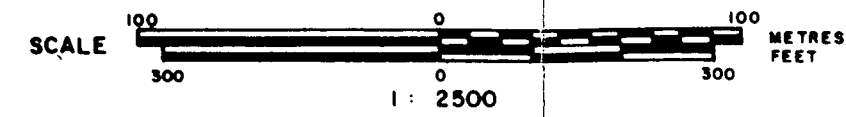
**14,560**

SEASTAR RESOURCE CORP.  
THORN CLAIMS  
SKEENA MINING DIVISION

**VLF-EM PROFILES**

**DISTANCE (metres)**

 *Donald G. Allen*  
exploration ltd.



No strong conductors were located by the survey. The Society Girl vein, one of the strongest and most continuous vein structures reported on the claims, was not detected by the survey. This data confirms that the sulphide mineralization in the area that was tested is not electrically continuous, i.e., disseminated or pod-like in occurrence.

The strong linear structural feature noted at 6+00W on Line "Shack" is associated with an  $8^{\circ}$  peak to peak dip angle crossover and a local 8% relative field strength high. It probably represents a shear zone. If the shear zone can be shown to be contemporaneous in age with the Thorn claims area mineralizing event, it may represent a favourable structure for precious metal deposition and would therefore require further exploration.

Donald J. Allen

## REFERENCES

- Allen, D. G. (1984). Assessment Report on the Mount Thornhill Gold Prospect. Assessment Report dated September 17, 1984.
- B. C. Department of Mines Annual Reports for 1910, 1914, 1920, 1921, 1924, 1925, 1926, 1928, 1930, 1933.
- Duffell, S. and Souther, J. G. (1974). Geology of Terrace Map Area, B.C. Geol. Survey Canada, Memoir 329.
- Hanson, G. (1925). Reconnaissance in Zymoetz River Area, Coast District, B.C. Geol. Survey Canada, Summary Report 1925A, pp. 100-119.
- Kindle, E. D. (1937). Mineral Resources of Terrace Area, Coast District, B.C. Geol. Survey Canada, Memoir 205.
- Marshall, J. R. (1926). Lakelse Map-Area, Coast District, B.C. Geol. Survey Canada, Summary Report 1926A, pp. 35-44.

CERTIFICATE

I, Donald G. Allen, certify that:

1. I am a Consulting Geological Engineer, with offices at A & M Exploration Ltd., #614 - 850 West Hastings Street, Vancouver, British Columbia.
2. I am a graduate of the University of British Columbia with degrees in Geological Engineering (B.A.Sc., 1964; M.A.Sc., 1966).
3. I have been practising my profession since 1964 to the present in British Columbia, the Yukon, Alaska and various parts of the Western United States.
4. I am a member in good standing of the Association of Professional Engineers of British Columbia.
5. This report is based on fieldwork carried out on June 27 and 28, 1985 by the writer, D. Sorenson and J. Cuvelier; and on References listed in this report.

Vancouver, B. C.  
September 16, 1985



Donald G. Allen  
P. Eng. (B. C.)

TABLE I

SAMPLE DESCRIPTIONS AND ASSAYS

<u>Sample No.</u>	<u>Sample Description</u>	<u>Au</u> <u>oz/t</u>	<u>Ag</u> <u>oz/t</u>	<u>%</u> <u>Zn</u>	<u>%</u> <u>Pb</u>
272 AT 100	Channel sample across 1.4 metres of quartz vein locally containing streaks and blebs of pyrite, sphalerites, galena and chalcopyrite.	0.166	0.10	0.09	0.11
101	Same sample site as above; grab sample of more sulphide-rich vein material.	0.298	0.37	0.64	0.19
102	As above - vein 1.4 metres wide.	0.054	-	-	0.16
103	Channel sample across 0.35 metres, quartz vein with some pyrite.	0.001	-	-	-
104	Chip sample from 0.1 to 0.2 metres wide vein with scattered blebs chalcopyrite, galena and pyrite.	0.004	0.4	-	0.13
105	Felsite with two disseminated cubes of pyrite.	10 ppb	-	-	-
106	Shear zone up to 0.2 m wide with quartz-carbonate veins containing minor pyrite and specular hematite.	10 ppb	-	-	-



APPENDIX I  
ANALYTICAL RESULTS

**ROSSBACHER LABORATORY LTD.**

2225 S. SPRINGER AVENUE  
 BURNABY, B.C. V5B 3N1  
 TEL : (604) 299 - 6910

**CERTIFICATE OF ANALYSIS**

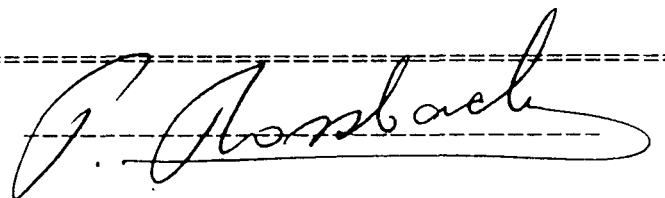
TO : A&M EXPLORATION LTD.  
 614-850 W. HASTINGS ST.  
 VANCOUVER, B.C.

CERTIFICATE#: 85177.B  
 INVOICE#: 5342  
 DATE ENTERED: JULY 23, 1985  
 FILE NAME: A&MB5177.B  
 PAGE # : 1

PROJECT: 272  
 TYPE OF ANALYSIS: GEOCHEMICAL

PRE FIX	SAMPLE NAME	PPM Mo	PPM Cu	PPM Ag	PPM Zn	PPM Pb	PPB Au
A	272 AT 100	3	62	4.0	860	1140	
A	101	3	338	12.6	6400	1920	
A	102	1	16	5.8	32	1660	
A	103	1	228	2.0	78	22	
A	104	66	880	14.8	26	1540	
A	105	4	14	0.2	42	20	10
A	272 AT 106	2	12	0.2	148	8	10
A	272 ST 7	1	14	0.6	64	24	10
A	272 ST 12	1	56	0.2	48	4	10

CERTIFIED BY :



**OSSBACHER LABORATORY LTD.**

2225 S. SPRINGER AVENUE  
 BURNABY, B.C. V5B 3N1  
 TEL : (604) 299 - 6910

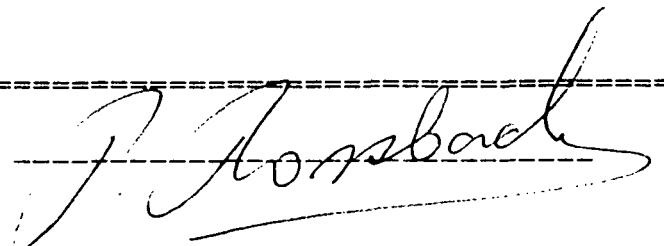
**CERTIFICATE OF ANALYSIS**

TO : A&M EXPLORATION LTD.  
 614-850 W.HASTINGS ST.  
 VANCOUVER, B.C.  
 PROJECT: 272  
 TYPE OF ANALYSIS: GEOCHEMICAL

CERTIFICATE#: 85177  
 INVOICE#: 5331  
 DATE ENTERED: JULY 18, 1985  
 FILE NAME: A&M85177  
 PAGE # : 1

PRE FIX	SAMPLE NAME	PPM Mo	PPM Cu	PPM Ag	PPM Zn	PPM Pb	PPB Au
L	272 AL 90	1	64	0.4	100	6	10
L	91	1	74	0.4	102	14	10
L	92	1	60	0.4	74	14	10
L	93	1	238	0.8	144	4	10
L	94	1	72	0.6	82	6	10
S	AS 95	1	52	0.4	82	6	10
S	96	1	48	0.2	76	8	10
S	97A	1	74	1.0	92	4	10
S	272 AS 97B (98)	1	44	0.4	132	6	10
S	272 SS 1	1	34	0.6	80	8	10
S	2	1	72	0.6	114	6	10
S	3	1	32	0.2	52	4	10
S	4	1	26	0.2	30	4	10
S	5	1	16	0.2	32	8	10
S	6	1	34	0.2	52	8	10
S	8	1	26	0.2	28	12	10
S	9	1	10	0.2	28	8	10
S	10	1	30	0.2	62	12	10
S	272 SS 11	1	20	0.2	28	4	10

CERTIFIED BY :



**JSSBACHER LABORATORY LTD.**

2225 S. SPRINGER AVENUE  
BURNABY, B.C. V5B 3N1  
TEL : (604) 299 - 6910

**CERTIFICATE OF ANALYSIS**

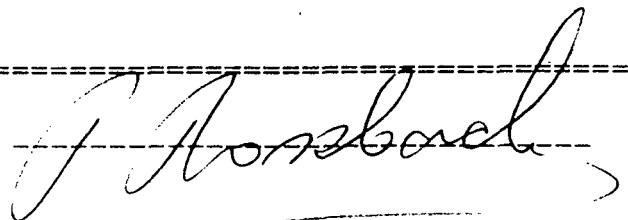
TO : A&M EXPLORATION LTD.  
614-850 W. HASTINGS ST.  
VANCOUVER, B.C.

CERTIFICATE#: 85177.A  
INVOICE#: 5343  
DATE ENTERED: JULY 23, 1985  
FILE NAME: A&MB5177.A  
PAGE # : 1

PROJECT: 272  
TYPE OF ANALYSIS: ASSAY

PRE FIX	SAMPLE NAME	oz/t Au
A	272 AT 100	0.166
A	101	0.298
A	102	0.054
A	103	0.001
A	104	0.004

CERTIFIED BY :



**ROSSBACHER LABORATORY LTD.**

**CERTIFICATE OF ANALYSIS**

2225 SOUTH SPRINGER AVENUE  
BURNABY, B.C. V5B 3N1  
TEL: (604) 299-6910

TO: A&M EXPLORATION CO.  
214-850 WEST HASTINGS ST  
VANCOUVER B.C.

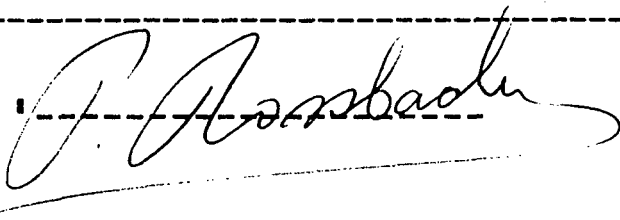
CERTIFICATE NO. :84066 - 1

INVOICE NO. :4083

PROJECT: 84-175

DATE ANALYSED :APRIL 19 1984

SAMPLE#	PPM		PPM		PPM		PPB	
	Mo	Cu	Ag	Zn	Pb	Au		
175 AL 2	1	74	0.2	190	22	10		
175 AL 5	2	86	0.4	266	58	10		
175 AL 6	8	88	0.4	580	80	10		
175 AL 7	1	64	0.2	146	26	10		
175 AL 8	1	56	0.6	124	48	10		
175 EL 1	1	100	0.2	122	18	60		
175 ES 2	1	400	0.2	148	2	10		
175 ET 3	1	6	0.2	24	4	320		
175 EL 4	1	72	0.8	132	32	10		
175 EL 5	1	68	0.2	104	20	30		
175 EL 6	1	124	0.2	104	16	10		
175 EL 7	2	78	0.2	154	22	10		
175 ET 8	1	20	0.8	98	4	10		
175 ET 9	1	4	0.2	26	2	10		
175 ES 10	2	68	1.2	136	740	10		
175 ES 11	2	34	0.8	68	16	10		
175 ES 12	1	50	0.2	86	8	10		
175 ES 13	1	40	0.2	58	10	10		
175 ET 14	1	24	0.2	30	4	10		
175 ES 15	1	26	0.2	66	12	140		
175 EL 16	1	52	0.6	840	18	12000		
175 ET 17	5	4	0.2	30	36	10		
175 EL 18	2	58	0.2	224	62	80		
175 EL 19	1	64	0.6	156	66	10		
175 AT 1	1	20	0.2	34	4	10		
175 AT 4	1	16	0.2	12	10	10		

CERTIFIED BY 

**ROSSBACHER LABORATORY LTD.**

**CERTIFICATE OF ANALYSIS**

2225 SOUTH SPRINGER AVENUE  
BURNABY, B.C. V5B 3N1  
TEL: (604) 299-6910

TO: A&M EXPLORATION LTD  
214-850 WEST HASTINGS ST  
VANCOUVER B.C.

CERTIFICATE NO. : 84066 - 1

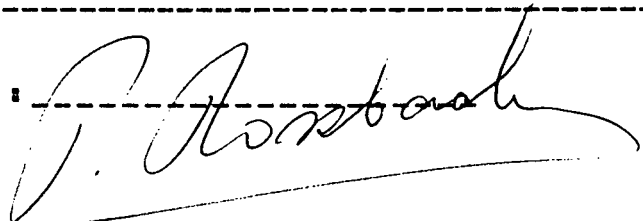
INVOICE NO. : 4083

PROJECT: 84-175

DATE ANALYSED : APRIL 19 1984

SAMPLE#	oz/t	oz/t	%	%
	Au	Ag	Pb	Zn
175 AT 3	0.005	0.06	0.10	0.12

CERTIFIED BY :



# ROSSBACHER LABORATORY LTD.

## CERTIFICATE OF ANALYSIS

2225 SOUTH SPRINGER AVENUE  
BURNABY, B.C. V5B 3N1  
TEL: (604) 299-6910

TO: A&M EXPLORATION LTD.  
214-850 W. HASTINGS ST.  
VANCOUVER B.C.

CERTIFICATE NO. : 84217 - 1

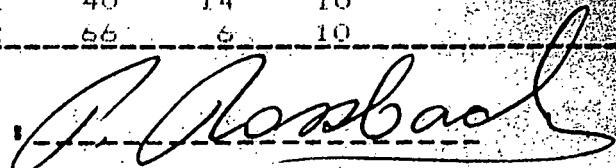
INVOICE NO. : 4218

PROJECT: THORN 175

DATE ANALYSED : JULY 12 1984

	SAMPLE#	No	Cu	Ag	Zn	Pb	Au
S	175 CS 63	1	64	0.8	98	22	10
S	64	1	60	0.4	94	12	10
S	65	1	54	0.6	128	20	10
S	66	1	22	1.2	116	8	10
L	L 67	2	90	0.6	148	16	10
L	71	4	60	0.4	120	22	20
L	72	4	62	0.8	136	24	10
L	75	3	66	0.8	108	36	10
S	S 76	4	50	0.4	74	22	10
S	175 CS 80	3	48	0.4	52	6	10
S	81	1	24	0.6	28	4	10
S	82	1	16	0.6	32	6	10
S	83	1	14	0.4	82	4	10
S	85	1	26	0.4	68	6	10
L	L 87	1	36	0.2	64	22	10
S	S 88	1	20	0.6	24	6	10
S	89	1	16	0.4	28	8	10
S	90	1	14	0.8	18	6	10
S	91	1	26	0.4	78	16	10
S	175 CS 92	1	82	0.4	72	10	10
S	94	2	50	0.2	54	8	10
S	95	2	42	0.2	74	4	10
S	97	3	20	0.2	66	8	10
S	98	3	34	0.2	42	10	10
S	99	4	36	0.2	52	12	10
S	101	1	92	0.2	88	12	10
S	103	5	90	2.4	92	34	10
S	104	2	198	0.4	114	10	10
S	106	2	30	0.2	72	12	10
S	175 CS 108	6	32	0.4	68	14	10
L	L 109	5	58	0.8	90	8	310
L	110	3	46	0.4	76	6	10
L	111	4	100	1.4	98	6	10
S	S 112	1	32	0.4	28	10	10
S	113	2	32	0.8	46	4	10
S	114	7	86	0.6	46	8	10
S	175 CS 115	1	10	0.2	30	6	10
S	175 TS 1	1	10	0.2	32	4	10
S	175 TS 2	1	16	0.2	40	14	10
S	175 TS 3	1	28	0.2	66	6	10

CERTIFIED BY :



# ROSSBACHER LABORATORY LTD.

2225 SOUTH SPRINGER AVENUE  
BURNABY, B.C. V5B 3N1  
TEL: (604) 299-6910

## CERTIFICATE OF ANALYSIS

TO: A&M EXPLORATION LTD.  
214-850 W. HASTINGS St.  
VANCOUVER B.C.

CERTIFICATE NO. : 84217 - 2

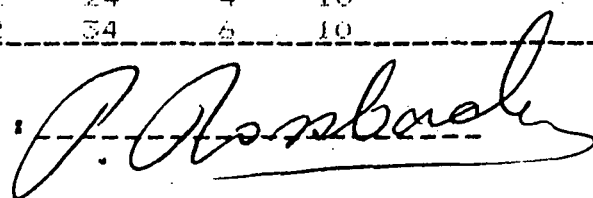
INVOICE NO. : 4218

PROJECT: THORN 175

DATE ANALYSED : JULY 12 1984

SAMPLE#	Mo	Cu	Ag	Zn	Pb	Au
175 TS 4	4	30	0.2	66	12	10
5	2	28	0.2	50	8	10
6	1	16	0.2	42	8	10
7	2	28	0.6	76	8	10
8	2	20	0.4	54	12	10
9	1	16	0.6	54	10	6
10	2	26	0.2	60	10	10
11	1	56	0.2	110	6	10
175 TS 12	3	156	0.2	116	6	10
13	3	54	0.2	140	2	10
14	1	28	0.4	58	4	10
15	1	24	0.4	58	10	10
16	8	44	0.4	62	10	10
17	3	76	0.2	124	2	10
18	2	34	0.4	92	8	10
19	2	16	0.2	32	6	10
20	1	22	0.4	38	10	10
21	1	20	0.4	54	12	10
175 TS 22	1	18	0.2	42	8	10
23	1	16	0.2	30	22	10
24	5	30	0.2	44	10	10
25	3	18	0.4	38	12	10
26	2	20	0.2	40	12	10
27	15	38	0.8	82	184	10
28	1	80	0.2	68	10	10
29	8	28	0.2	66	10	10
30	26	30	0.2	78	16	10
31	26	42	0.2	80	24	10
175 TS 32	22	86	0.2	102	28	10
33	17	56	0.2	134	30	10
34	6	12	0.2	44	2	10
35	4	18	0.2	34	26	10
175 TS 36	7	8	0.2	28	8	10
175 JS 1	2	42	0.2	54	6	10
L 2	1	70	0.2	128	30	10
S 3	1	22	0.2	32	4	10
S 4	2	16	0.2	42	6	10
175 JS 5	2	48	0.4	180	44	640
175 JS 6	1	8	0.2	24	4	10
S 7	1	10	0.2	34	6	10

CERTIFIED BY :





**ROSSBACHER LABORATORY LTD.**

**CERTIFICATE OF ANALYSIS**

2225 SOUTH SPRINGER AVENUE  
 BURNABY, B.C. V5B 3N1  
 TEL: (604) 299-6910

TO: A&M EXPLORATION LTD.  
 204-850 W. HASTINGS ST.  
 VANCOUVER, B.C.

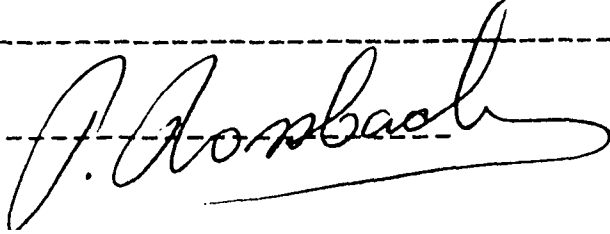
CERTIFICATE NO. : 64217 - 3

INVOICE NO. : 4418

PROJECT: THORN 175

DATE ANALYSED: JULY 12, 1984

SAMPLE#	PPM		PPM		PPM		PPM	
	Mo	Cu	Ag	Zn	Pb	Au		
S 175 JL E 8	1	72	0.2	94	8	10		
L 9	1	36	0.2	94	6	10		
S 10	4	20	0.2	66	8	10		
L 11	1	46	0.4	192	20	10		
S 12	3	20	0.2	64	12	10		
S 13	2	30	0.6	70	12	10		
S E 14	1	46	0.6	116	16	10		
L S 15	7	50	0.4	216	4	10		
L S 16	3	14	0.4	86	2	10		
L S 17	1	6	0.2	32	4	10		
S E 18	1	66	0.8	158	78	10		
S S 24	3	22	0.6	54	14	10		
S S 25	2	26	0.2	56	10	10		
S S 26	1	14	0.2	34	8	10		
S L 27	8	14	0.2	32	14	10		
S S 28	1	12	0.2	30	4	10		
S S 29	46	64	0.8	104	10	10		
S 175 JS 30	2	20	0.8	54	26	10		
S S 31	8	48	0.4	62	8	10		
S S 33	186	60	0.4	70	24	10		
S S 34	15	12	0.2	36	4	10		
S 175 JS 35	13	14	0.2	40	10	10		

CERTIFIED BY : 

ROSSBACHER LABORATORY LTD.

CERTIFICATE OF ANALYSIS

2225 SOUTH SPRINGER AVENUE  
BURNABY, B.C. V5B 3N1  
TEL: (604) 299-6910

TO: WEN EXPLORATION INC.  
5950 W. HASTINGS ST.  
VANCOUVER B.C.

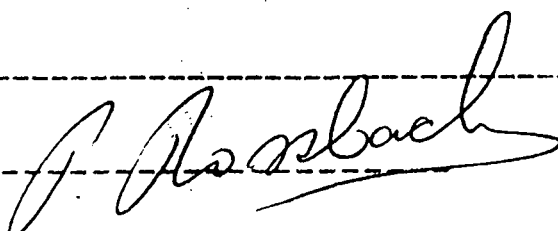
CERTIFICATE NO. : S9277-A  
INVOICE NO. : 4218

PROJECT: THORN 175

DATE ANALYSED : JULY 25 1984

		oz/t	oz/t	%	%	%
	SAMPLE#	Au	Ag	Cu	Pb	Zn
A	175 CT 77	0.020	0.04	0.01	0.02	1.88
A	175 CT 79	0.004	0.02	0.01	0.02	0.02
A	175 JT 19	0.46	2.70	0.04	1.88	0.08
A	175 JT 20	0.008	0.40	0.01	1.08	0.02
A	175 J1 21	0.038	0.04	0.01	0.02	0.02
A	175 JT 22	0.122	0.76	1.20	0.02	0.02

CERTIFIED BY :



**ROSSBACHER LABORATORY LTD.**

2225 SOUTH SPRINGER AVENUE  
BURNABY, B.C. V5B 3N1  
TEL: (604) 299-6910

**CERTIFICATE OF ANALYSIS**

TO: BURN EXPLORATION LTD  
214 West 10th Street  
VANCOUVER B.C.

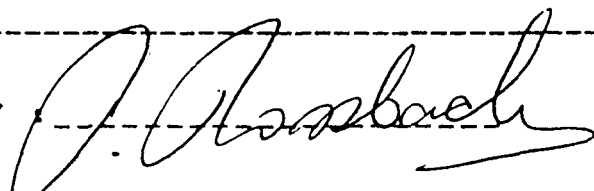
CERTIFICATE NO. : 84217 - 1  
INVOICE NO. : 4218

PROJECT: THORN 175

DATE ANALYSED : JULY 12 1984

	SAMPLE#	Pb		Cu		Zn		Fe	
		NO	PPM	NO	PPM	NO	PPM	NO	PPM
A	175 CT 68	3	100	0.2	420	16	10		
A	70	1	28	0.2	420	8	10		
A	73	2	12	2.4	18	95	380		
A	74	2	38	0.2	48	54	10		
A	75	1	4	0.2	8	6	10		
A	78b	2	48	0.2	94	8	10		
A	84 CT 84	1	6	0.2	680	14	10		
A	93	1	4	0.2	36	6	10		
A	96	1	6	0.2	24	2	10		
A	100	1	10	0.2	12	2	10		
A	102	12	238	30.6	316	940	6700		
A	107	2	14	0.2	98	10	10		
A	84 CT 116	1	22	0.2	22	4	10		
A	84 JT 23	1	270	0.2	122	2	10		
A	84 JT 32	1	4	0.2	20	2	10		

CERTIFIED BY



APPENDIX II  
AFFIDAVIT OF EXPENSES

AFFIDAVIT OF EXPENSES

This will certify that prospecting and geochemical sampling were carried out during the period June 26 to 27, 1985 on the Thorn 1 to 6 claims, Mount Thornhill area, Skeena Mining Division, British Columbia to the value of the following:

Mobilization & Fieldwork

Salaries		
D. G. Allen	3 days @ \$350	\$ 1,050.00
J. Cuvelier	3 days @ \$120	360.00
D. Sorenson	3 days @ \$120	360.00
Helicopter support		287.13
Geochemical analyses & assays		316.30
Room & board		381.63
Vehicle rental, gas		580.05
Ortho photo and topographic base maps		4,933.50
Material & supplies		140.00
VLF-EM rental		50.00
Telephone		43.00

Report Preparation & Drafting

D. G. Allen	2 days @ \$350	700.00
Maps, photocopying		138.00
Typing, compilation	37 hrs. @ \$18.50	684.00

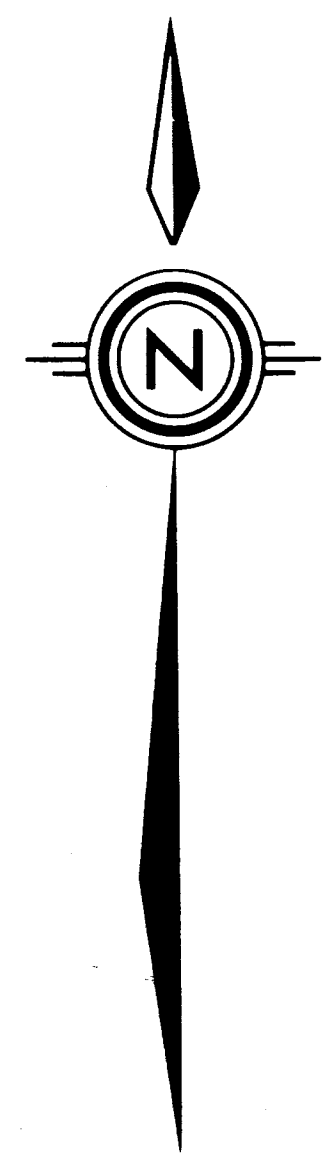
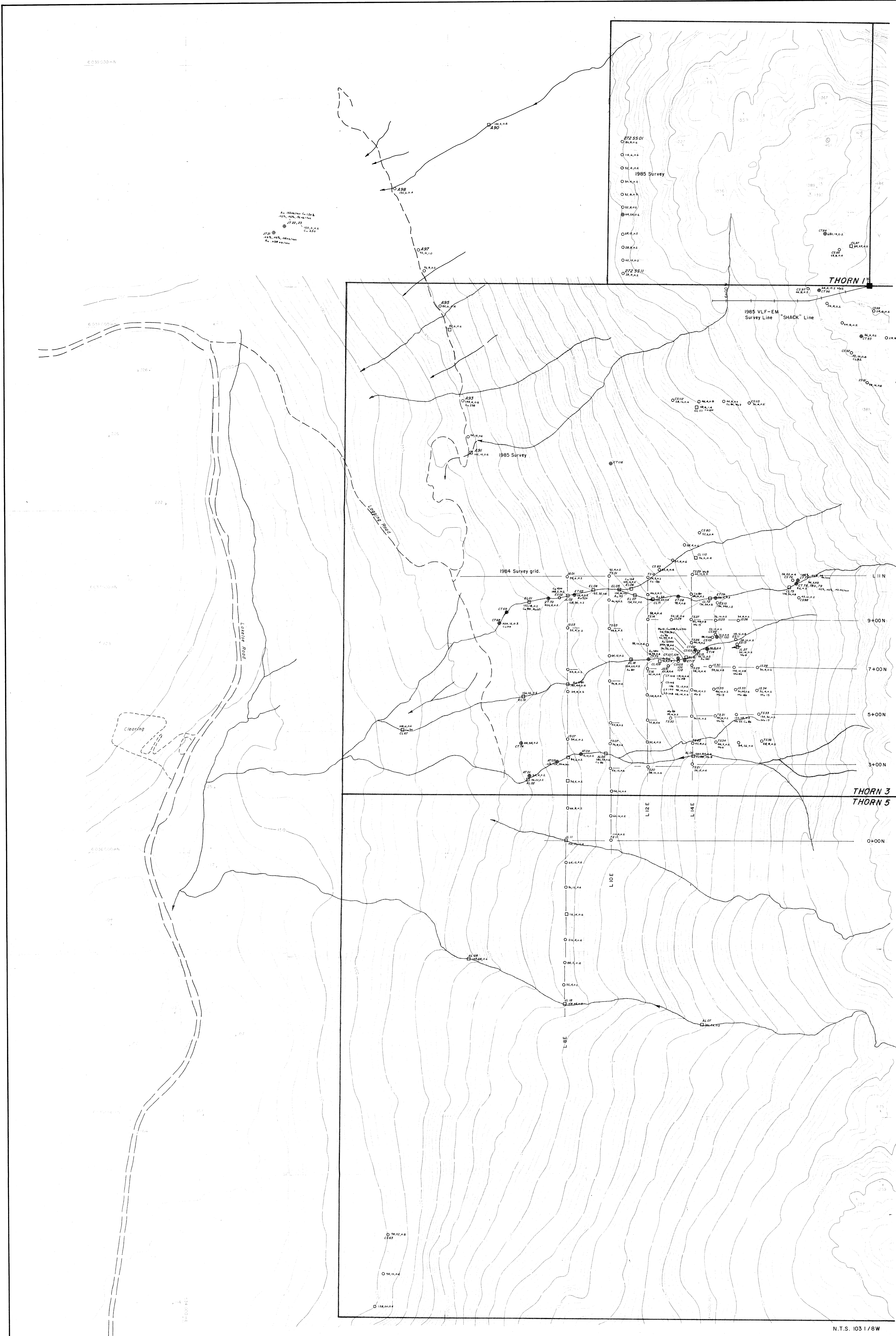
TOTAL \$10,023.61

Vancouver, B.C.  
September 16, 1985

D. G. Allen  
P. Eng. (B.C.)

*Donald G. Allen*

APPENDIX III  
ORTHO PHOTO BASE MAP  
TRIATHLON MAPPING CORP.



**LEGEND**

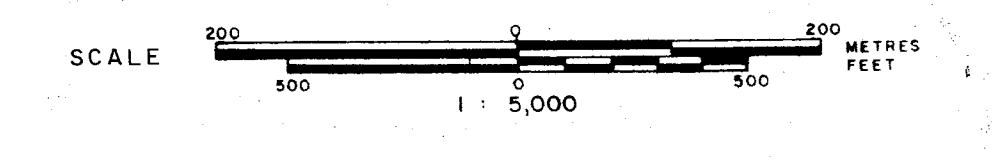
- Rock sample site, sample number, ppm Zn, Pb, Ag.
- Silt sample site, sample number, " " " "
- Soil sample site, sample number, " " " "
- Legal corner post, claim boundary.
- Topographic contour (contour interval 10 metres).
- Creek.
- Sampling grid line, line number.

Note: Other geochemical results plotted where:  
ppm Mo = 5, ppb Au = 20, ppm Cu = 80.

**GEOLOGICAL BRANCH  
ASSESSMENT REPORT**

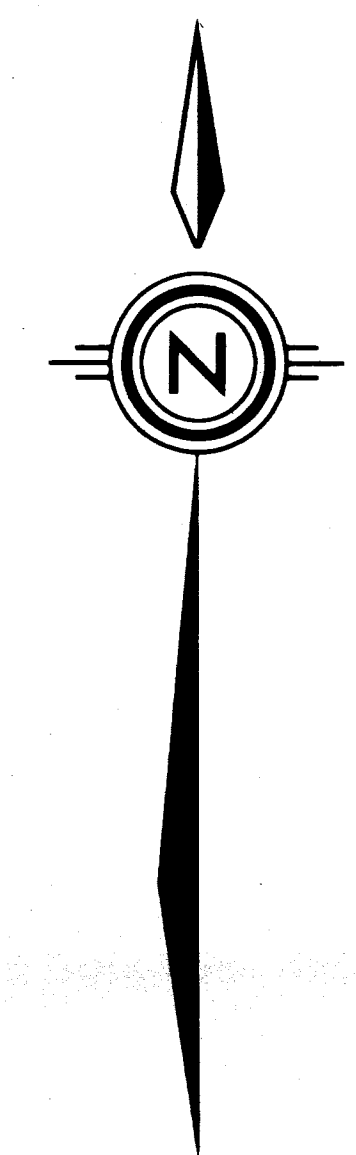
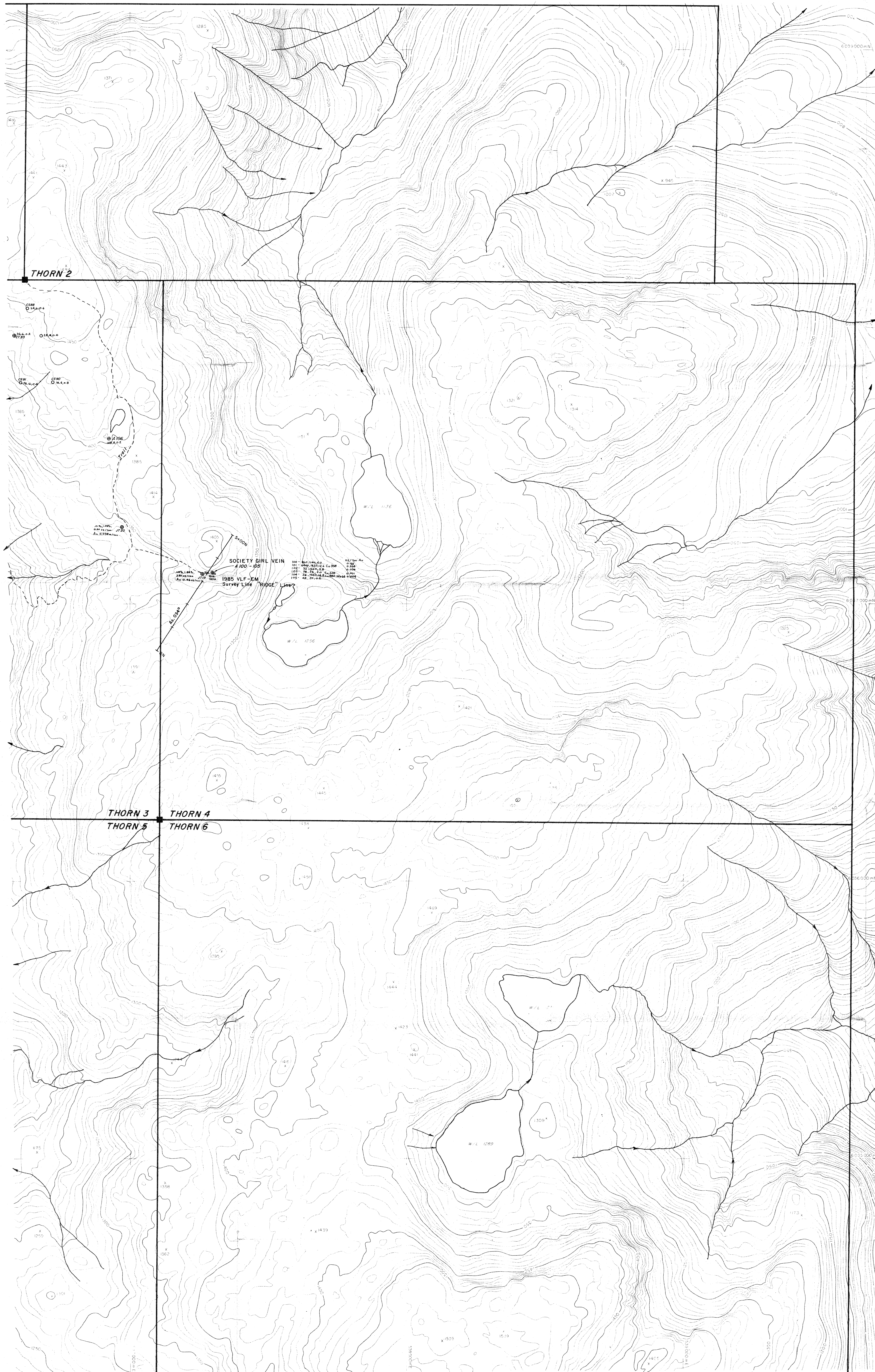
**14,560**

ASTAR RESOURCE CORP.  
THORNHILL PROPERTY  
THORN CLAIMS  
SKEENA MINING DIVISION - BRITISH COLUMBIA  
**GEOCHEMICAL MAP  
WEST HALF**



N.T.S. 1031/8W





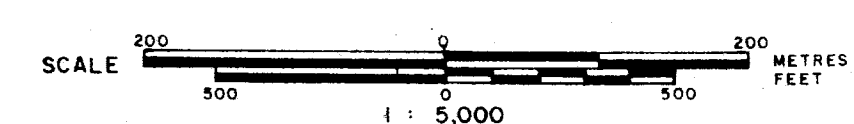
**LEGEND**

- Rock sample site, sample number, ppm Zn, Pb, Ag.
- Silt sample site, sample number.
- Soil sample site, sample number.
- Legal corner post, claim boundary.
- Topographic contour (contour interval 10 metres).
- ~ Creek.
- Sampling grid line, line number.

Note: Other geochemical results plotted where:  
 ppm Mo = 5, ppb Au = 20, ppm Cu = 80.

**GEOLOGICAL BRANCH  
 ASSESSMENT REPORT**

**14,560** BEA STAR RESOURCE CORP.  
 THORNHILL PROPERTY  
 THORN CLAIMS  
 SKEENA MINING DIVISION - BRITISH COLUMBIA  
**GEOCHEMICAL MAP  
 EAST HALF**



N.T.S. 1031/8W

