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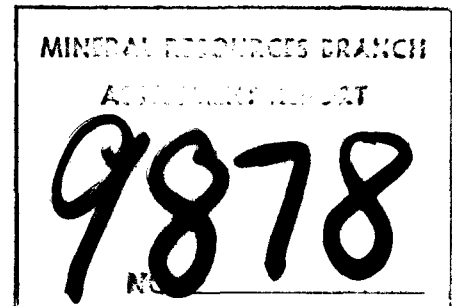
GEOCHEMICAL REPORT  
ON THE  
CASTLE #1 AND CASTLE #2 CLAIMS

LIARD MINING DIVISION

104G/16E

57° 49'N 130° 10'W

BY  
G. SCHELLENBERG, B.Sc.  
OF  
TECK EXPLORATIONS LIMITED  
FOR  
TECK CORPORATION



October 15, 1981

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Assay Results	Enclosed

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## INTRODUCTION

This report summarizes the work completed by Teck Explorations on the Castle group of mineral claims. Most of the claim group is underlain by Upper Triassic purple and green andesite flows and pyroclastics. The mineralization is restricted to a linear band of highly pyritized volcanics that runs through the centre of the property.

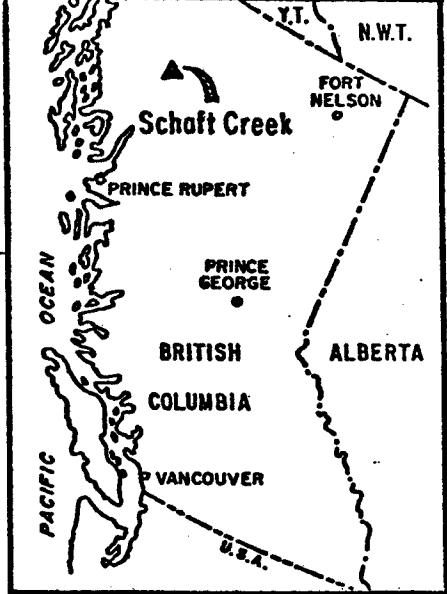
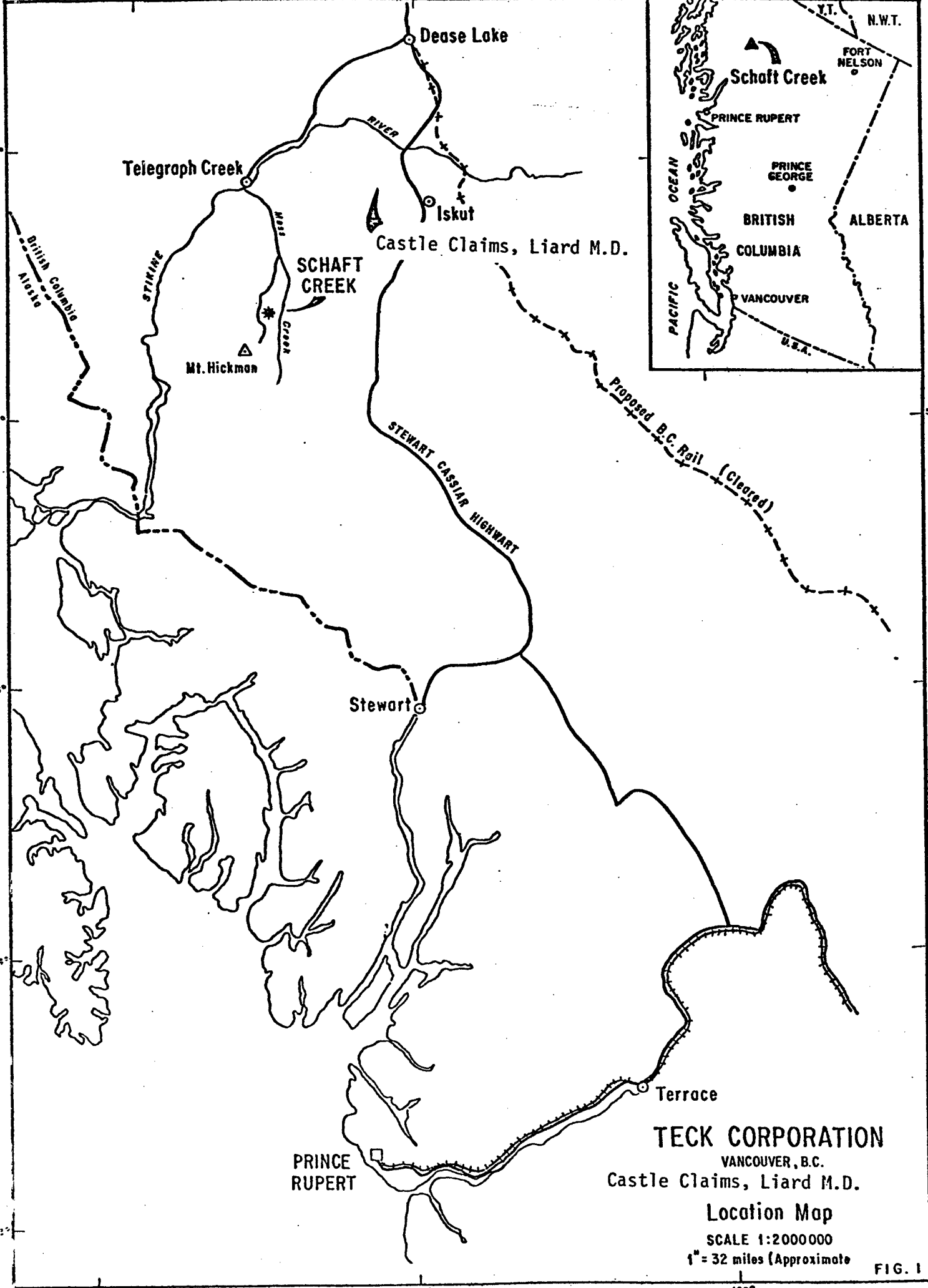
From August 15 to August 17, 1981, a geochemical survey was conducted on the property. A total of 16 rock chip samples were taken and assayed for Au, Ag, Cu and Mo.

## LOCATION AND ACCESS

The Castle #1 and #2 claims in the Liard M.D., are located about 15 km west of Iskut and the Stewart-Cassiar Highway in the Stikine region. Access is by helicopter to the claims which are between 1840 and 2130 m. in elevation.

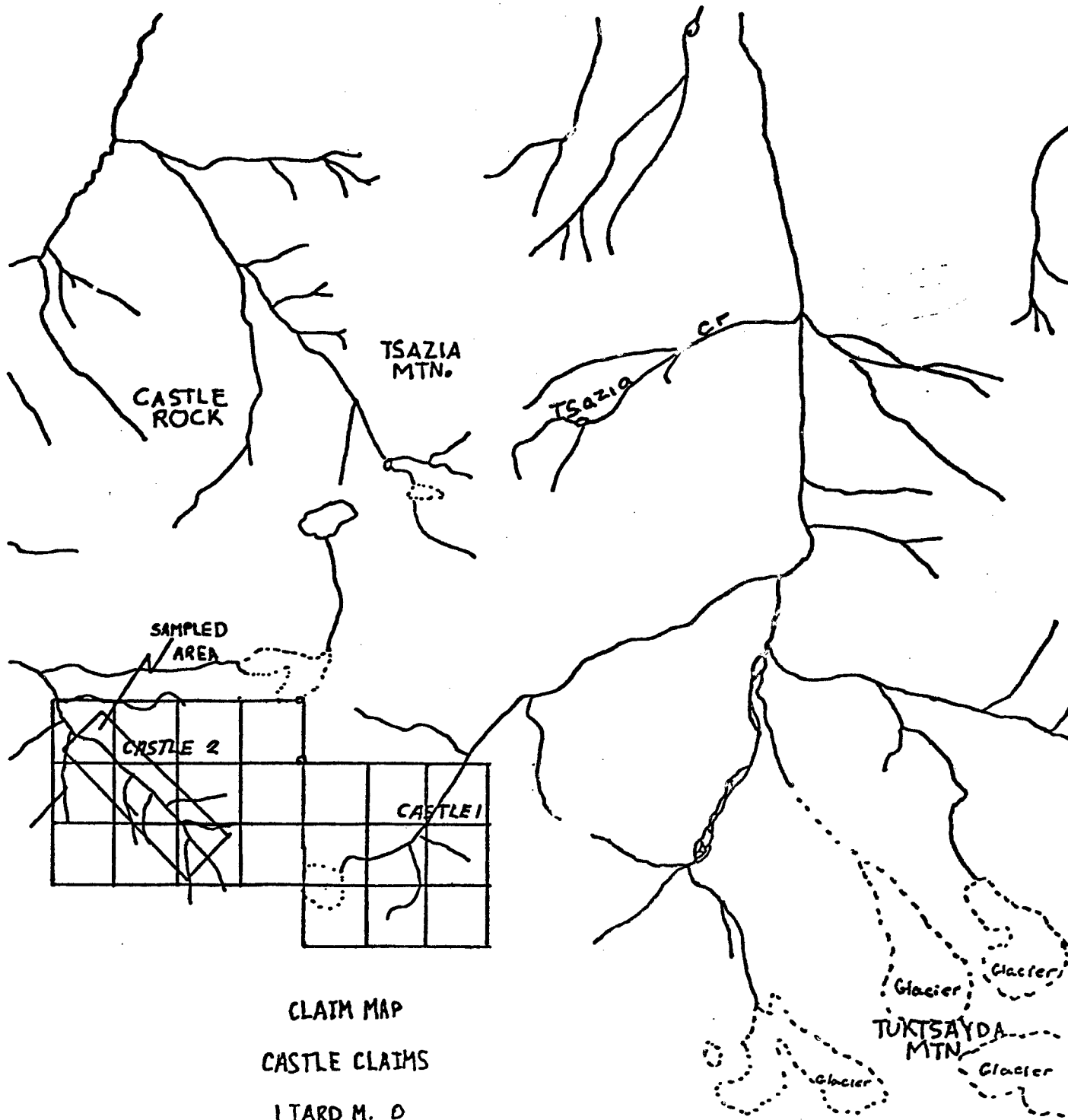
## HISTORY

The Sumitomo Metal Mining Canada Ltd. staked the "JO" group of mineral claims in 1970. Sumitomo conducted a small amount of drilling on the property during the early 70's but later allowed the claims to lapse. In March of 1980, employees of Teck Explorations Ltd. staked the Castle #1 and #2 claims (21 units) over the original claim area. Later that summer the property was mapped and a geochemical survey conducted. During August of 1981 further geochemical sampling was conducted by Teck employees.



**TECK CORPORATION**  
 VANCOUVER, B.C.  
 Castle Claims, Liard M.D.  
 Location Map  
 SCALE 1:2000000  
 1" = 32 miles (Approximate)

FIG. 1



CLAIM MAP  
 CASTLE CLAIMS  
 LIARD M. D.  
 1:50,000 Scale

### GEOCHEMICAL SURVEY

A total of 16 rock chip samples were taken over varying lengths and assayed for Cu, Mo, Au and Ag. Many of the samples consisted of highly weathered and pyritized andesite porphyry. The samples were assayed by normal assay techniques by Acme Analytical Laboratories of Vancouver.

### RESULTS (See enclosed Assays and Sample Location Map)

Most of the samples taken show traces of gold. Gold values as high as .062 oz./ton over 5.5 metres were obtained. Two of the samples which contained moderate amounts of gold also contained low grade silver values of .45 oz/ton over 4 metres and .12 oz/ton over 5.5 metres.

### CONCLUSIONS

Although the gold values obtained are sub-economic, the possibility for high grade veins, shears or contact zones exists. Very little outcrop is exposed on the property making evaluation by physical sampling difficult. The low grade gold values appear to be associated with the pyrite and the highly weathered andesite porphyry.

### RECOMMENDATIONS

Further examinations are warranted.

1. Compile drill results from previous operators and locate drillcore.
2. Hand trench areas of high soil geochemical anomalies.
3. Run an E.M. survey on the grid and drill the best targets in the zone.

*Peter Folt* P.ENG.

*Gary D.A. Schellenberg*  
Gary D.A. Schellenberg, B.Sc.

APPENDIX I

ITEMIZED COST STATEMENT

		\$
<u>Wages</u>		
G. Schellenberg, Geologist 3 days @ \$125/day	August 15-17	375.00
J. Bacon, Helper 3 days @ \$65/day	August 15-17	195.00
<u>Food and Accommodation</u>		
2 men x 3 days x \$20/day/man		120.00
<u>Instrument Rental</u>		
1 radio x 3 days x \$15/day		45.00
<u>Assays</u>		
16 samples x \$17.00 per sample		272.00
<u>Freight</u>		250.00
<u>Transportation</u>		
Quasar Helicopters, Bell 206B 3.2 hours @ \$500/hr. including fuel		1,600.00
<u>Report Preparation and Drafting</u>		<u>400.00</u>
	<u>TOTAL:</u>	<u>\$3,257.00</u>


APPENDIX II

CERTIFICATION OF QUALIFICATIONS

GARY D.A. SCHELLENBERG, B.Sc.

I hereby certify that:

- 1) I graduated from the University of British Columbia in May of 1981 with a B.Sc. degree in geology.
- 2) I have worked as an exploration assistant and mine geologist assistant during the summer months prior to graduation.
- 3) I have worked since graduation as an exploration geologist in Canada.

  
Gary D.A. Schellenberg, B.Sc.



APPENDIX III

CERTIFICATE OF QUALIFICATIONS

Peter G. Folk, P. ENG.

I hereby certify that:

1. I graduated from the University of British Columbia in 1971 with a B.A.S.C. degree in geological engineering.
2. I am a member in good standing of the Association of Professional Engineers of the Province of British Columbia.
3. I have worked since graduation as an exploration geologist and mine geologist in Canada and the United States.
4. The work described herein was done under my direct supervision.

*Peter G. Folk*

JEP-4  
ACME ANALYTICAL LABORATORIES LTD.

Assaying &amp; Trace Analysis

852 E. Hastings St., Vancouver, B.C. V6A 1R6

Telephone: 253-3158

To: Teck Explorations Ltd.,  
1100 - 1199 W. Hastings St.,  
Vancouver, B.C.  
V6E 2K5

File No. 81-131A

## ASSAY CERTIFICATE

Type of Samples Rock

Attn.: W. Meyer

cc: G. Schellenberg

Project: Schaff Creek

Disposition

No.	Sample	Au oz/ton	Ag oz/ton	Total MoS <sub>2</sub> %	C.%	Length IN METERS	No.
1	CAS RK1	.019	.06	.005	.01	1m	1
2	2	.032	.45	.001	.0	4m	2
3	3	.001	.01	.003	.0	9m	3
4	4	.004	.01	.004	.	1.7m	4
5	5	.0	.12	.002	.	3.5m	5
6	6	.	.01	.001	.0	5m	6
7	7	.0	.01	.001	.0	3m	7
8	8	.007	.01	.001	.05	7m	8
9	9	.001	.01	.001	.01	2.8m	9
10	10	.004	.01	.012	.01	1.3m	10
11	11	.011	.01	.001	.03	4m	11
12	12	.056	.06	.008	.0	3.5m	12
13	13	.002	.01	.002	.0	10m	13
14	14	.005	.1	.002	.	6m	14
15	15	.001	.01	.002	.0	10m	15
16	16	.001	.	.001	.0	4.5m	16
17	17	.	.	.	.	.	17
18	18	.01	.15	.	.01	.	18
19	2/38	.02	.03	.	.8	.	19
20	2739	.008	.04	.	.01	.	20

All reports are the confidential property of client.

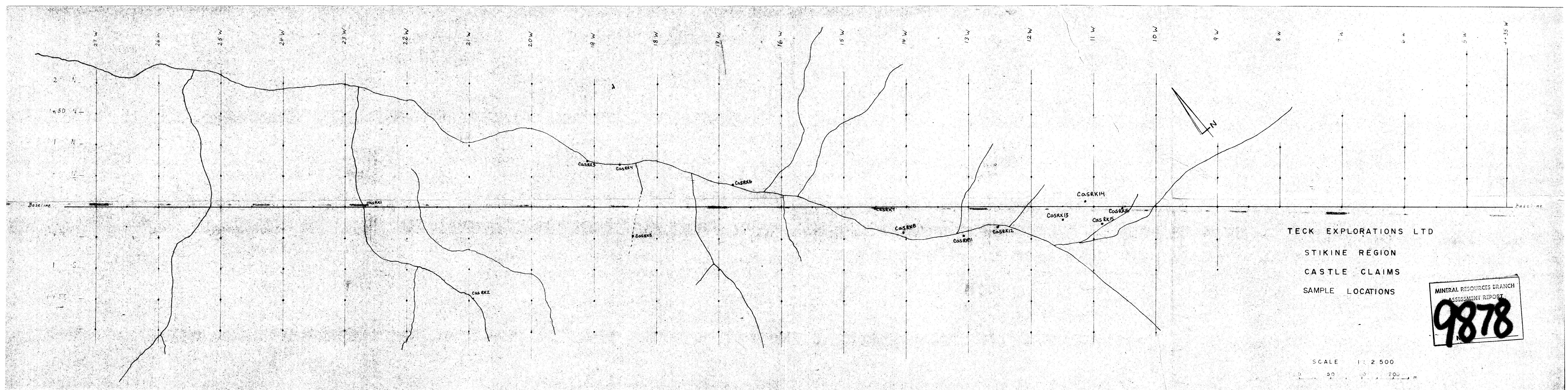
L SAMPLES RECEIVED Aug. 21, 1981

D TEST REPORTS MAILED Sept. 1, 1981

ASSAYER

DEAN TOYE, B.Sc.  
CHIEF CHEMIST  
CERTIFIED B.C. ASSAYER

9878



TECK EXPLORATIONS LTD  
 STIKINE REGION  
 CASTLE CLAIMS  
 SAMPLE LOCATIONS

MINERAL RESOURCES BRANCH  
 ASSESSMENT REPORT  
**9878**

SCALE 1:2500  
 0 50 100 200 m