

GEOLOGICAL AND GEOCHEMICAL REPORT

ON THE

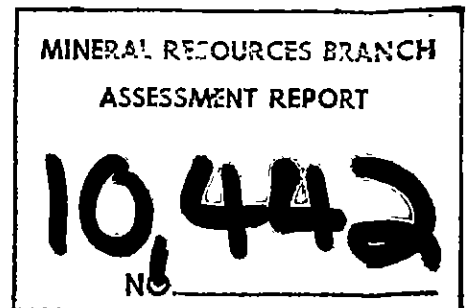
SUEY CLAIM GROUP

Latitude 52°27'12" to 52°29'54"  
Longitude 120°50'13" to 120°57'23"

N.T.S. 93A/7W

Cariboo Mining Division

for



SUEY LAKE SYNDICATE

by

P.G. CURTIS, ACSM, FGAC

A.S. ASHTON, P.Eng.

August 10, 1981

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MAPS

LOCATION MAP	Tenquille Resources Ltd. Scale 1:6,500,000 Approx.	3
CLAIM MAP	Tenquille Resources Ltd. Scale 1:50,000	4
REGIONAL GEOLOGY	Suey Lake Syndicate Scale 1:125,000	6
SOIL GEOCHEMISTRY	Scale 1:10,000	In Pocket

## SUMMARY

The recently completed geochemical survey over a small selected area of the Suey Group has indicated good anomalous zones.

The geology is similar to that occurring at Spanish Mountain and Mt. Polley to the southwest of Likely where good copper-gold-silver mineralization occurs.

A geophysical and geochemical survey to cover most of Suey 1, 2, 3 and 4 is estimated to cost \$ 57,000.00.

The follow-up drill program to test the most promising zones delineated by the above survey is estimated to cost \$ 75,000.00.

## LOCATION

The property is situated 37½ km and North 65 East from Horsefly between Quesnel Lake and Horsefly Lake.

## ACCESS

Access to the group is either by boat to Suey Bay on Horsefly Lake or by helicopter. Landing places are located on the shores of Hen Lake and Suey Lake, and in the swampy ground between these lakes. It may be possible to land a float plane on Hen Lake. A logging road exists 10 km west of the property at the west end of Hen Ingram Lake.

TOPOGRAPHY

The ground has very moderate relief, hillsides generally having 10<sup>o</sup>-15<sup>o</sup> slopes. Occasional steeper slopes occur along streams and some geological fault systems. The central part of the claim group has numerous beaver dams, and most small lakes are bordered by marshes.

CLAIMS

The following claims are covered by this report:

<u>NAME</u>	<u>RECORD NO.</u>	<u>RECORDED OWNER</u>	<u>EXPIRY DATE</u>
Suey No. 1	3456	Tenquille Resources Ltd.	11 May/82
Suey No. 2	3457	Tenquille Resources Ltd.	11 May/82
Suey No. 3	3458	Tenquille Resources Ltd.	11 May/82
Suey No. 4	3459	Tenquille Resources Ltd.	11 May/82
Suey No. 5	3460	Tenquille Resources Ltd.	11 May/82
Suey No. 6	3461	Tenquille Resources Ltd.	11 May/82

The legal corner posts, and other posts examined, were made and marked in accordance with the mining act. The exact location of, and the amount of ground covered by these claims, can only be determined by a legal survey.

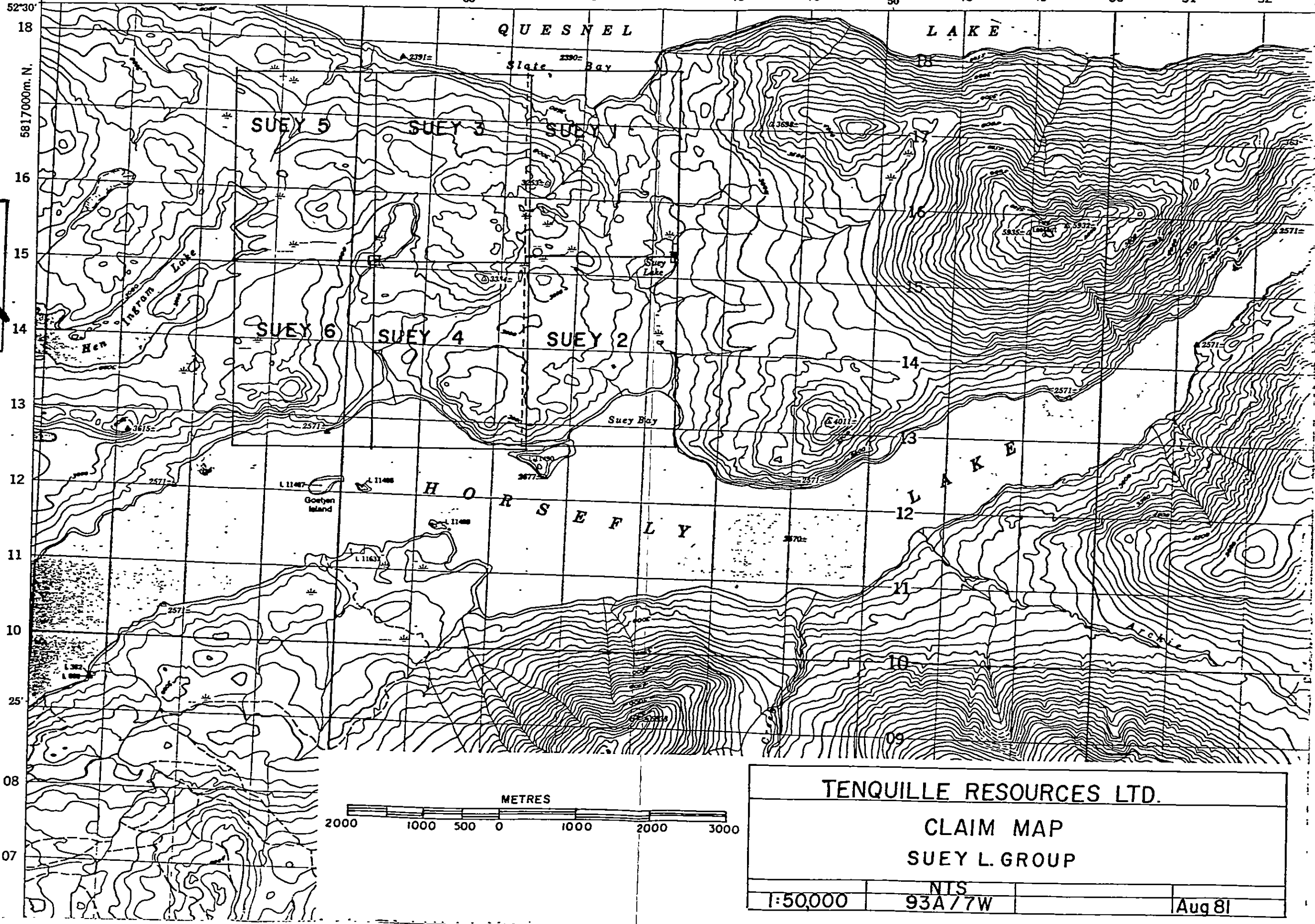
GEOLOGY

The greater part of the claim group is underlain by rocks of Lower Jurassic age, mainly tuffs and argillites.

A major NW-SE-trending fault cuts across the NE

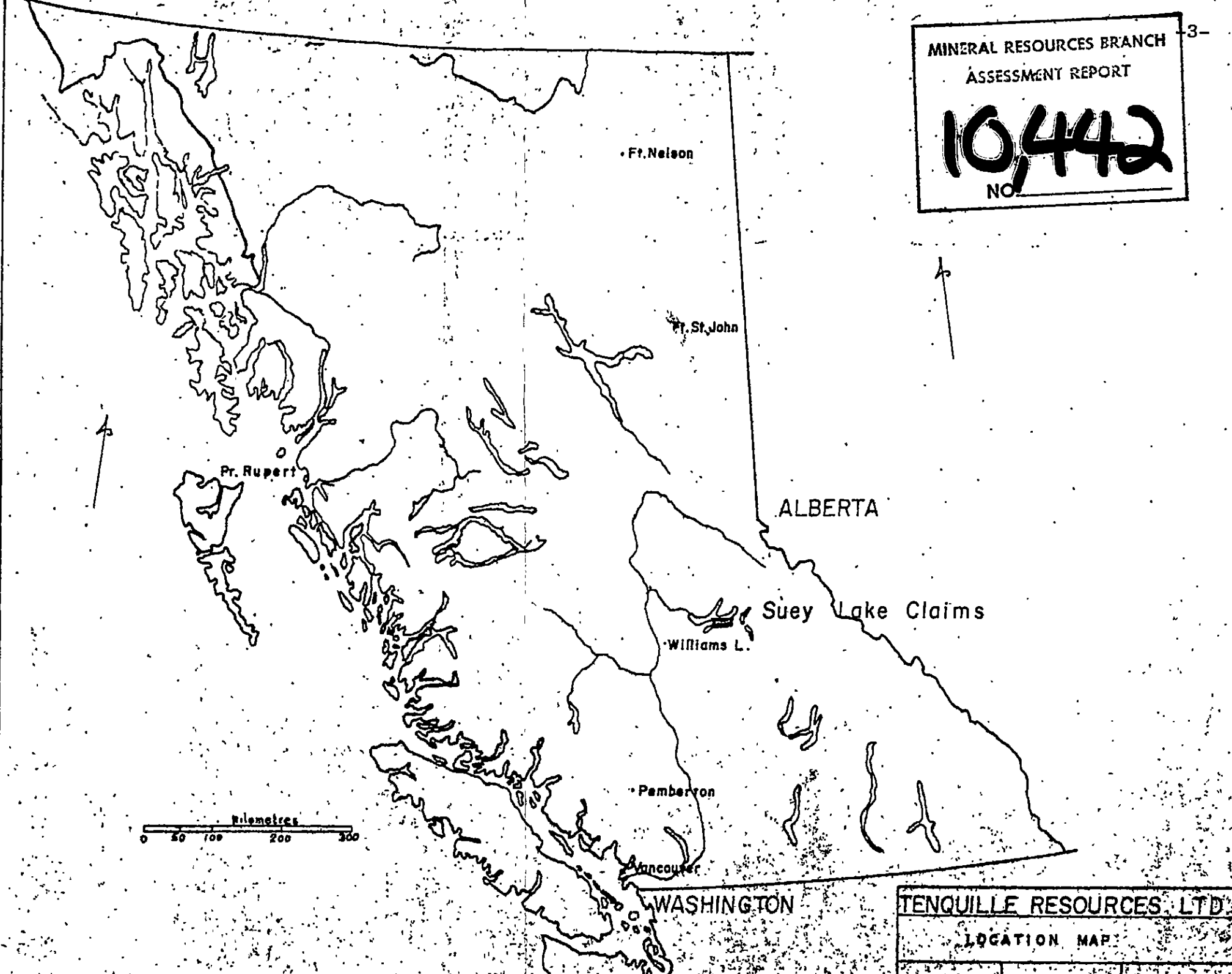
93 A/7 121°00' 637000m. E. 38 39 40 41 55' 42 43 44 45 46 50' 48 49 50 51 52

MINERAL RESOURCES BRANCH  
ASSESSMENT REPORT  
**10,442**  
NO.



TENQUILLE RESOURCES LTD.  
CLAIM MAP  
SUEY L. GROUP  
NTS  
1:50,000 93A/7W Aug 81

**10,442**  
NO.



ALBERTA

Suey Lake Claims

Pemberton

Vancouver

WASHINGTON

Kilometres  
0 50 100 200 300

TENQUILLE RESOURCES LTD.

LOCATION MAP

corner of the claim group. This fault forms the contact with the older Upper Triassic slates and argillites that outcrop along the shore of Quesnel Lake. On the west side of this fault a few small outcrops of an augite porphyry basalt breccia occur. This breccia shows arsenic and silver values to be 5 times and copper to be twice the average values for basaltic rocks. The geochemical program did not cover any areas known to be underlain by this rock type.

The Jurassic sediments are intruded by stocks, sills and dykes of intermediate to basic composition.

It is said (G. LORINEZI: report published September 1st, 1967), "that copper mineralization invariably occurs in or near these intrusives both as disseminations and as fracture fillings. Chalcopyrite, the dominant copper mineral in the area is always closely associated with pyrrhotite."


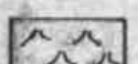

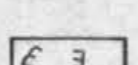
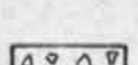
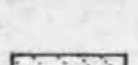

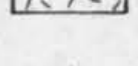

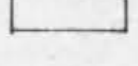
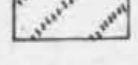
A large area to the north of Suey Bay is underlain by glacial deposits.

#### GEOCHEMISTRY

An orientation survey has been carried out on the property covering the central part of the claims. The samples were taken from the "B" horizon and except in a few areas of swamp good samples were obtained. The sample interval was 50 meters on a line spacing of 200 meters. All samples were analyzed for copper and silver. *17.8 line km were completed*

The sample frequency histograms indicate threshold values of 40 ppm for Cu and 5 ppm for Ag. Areas showing threshold values, or above, have been indicated on the sample location map.



-  GLACIAL DEPOSITS
- TERTIARY**
-  OLIVINE BASALT CONES & FLOWS
- JURASSIC**
-  CONGLOMERATE GREYWACKE
- JURASSIC-TRIASSIC**
-  SUB-VOLCANIC INTRUSIVE PHASES
-  AUGITE PORPHYRY BASALT BRECCIA
-  BASALTIC TUFF ARGILLITE
-  GRANODIORITE QUARTZ MONZONITE
- UPPER TRIASSIC**
-  METASEDIMENTS/ VOLCANICS
- PERMIAN**
-  AMPHIBOLITE
- DEVONIAN**
-  SNOWSHOE FORMATION
- ARCHEAN**
-  QUESNEL LAKE GNEISS

MINERAL RESOURCES BRANCH  
ASSESSMENT REPORT  
**10,442**  
NO.



TENQUILLE RESOURCES LTD.	
SUEY LAKE SYNDICATE	
REGIONAL GEOLOGY	
SCALE 1:12500	DEP. MINES 1963



One zone trending southeast from Hen Lake shows anomalous values for both copper and silver and extends for a distance of 1500 meters; another shorter zone occurs in the southeast corner of the sampled area. Numerous other zones show threshold or anomalous values for either copper or silver.


In view of the strongly linear appearance of these zones, it is considered that the line spacing is adequate but that the sample spacing should be reduced to 25 meters over areas showing above-threshold values.

#### OBSERVATIONS & RECOMMENDATIONS

The orientation survey has shown that anomalous copper and silver values can be detected, and it is therefore recommended that the existing survey be extended to cover most of the four central claims of the group while decreasing the sample interval in those areas already shown to be anomalous.

Also in view of the close association of pyrrhotite with the copper, it is recommended that a ground magnetometer and E.M. survey be carried out over the same ground.

These disciplines should delineate the most suitable sites to check for economic mineralization by means of diamond drilling. An initial program should consist of approximately 500 meters divided between 4 or 5 sites. An estimated overall cost of such a drill program, based on a figure of \$ 150/meter and with a 10% contingency allowance, would be \$ 82,500.

A handwritten signature in dark ink is written over a circular stamp. The stamp contains the text "CANADIAN MINERALOGICAL ASSOCIATION" around the perimeter and "P. G. CURTIS" in the center. The signature appears to be "P. G. Curtis" written in a cursive style.

APPENDIX "A"

GEOCHEMICAL ASSAY CERTIFICATES



To: TenQuille Resources Ltd.,  
620 - 789 W. Pender St.,  
Vancouver, B.C.

ACME ANALYTICAL LABORATORIES LTD.

Assaying & Trace Analysis

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

phone: 253 - 3158

Attn.: Mr. H. Ross

File No. 81-0966

Type of Samples Soil

Disposition \_\_\_\_\_

**GEOCHEMICAL ASSAY CERTIFICATE**

Suey

1

SAMPLE No.			Cu	Ag																	
14W	17	N	2	.2																	1
	17+50		11	.1																	2
	18		45	1.2																	3
	18+50		9	.1																	4
	19		6	.1																	5
	19+50		14	.1																	6
	20		16	.1																	7
	20+50		8	.1																	8
	21		3	.1																	9
	21+50		17	.1																	10
	22		5	.1																	11
	22+50		47	1.2																	12
	23		9	.2																	13
	23+50		9	.2																	14
	24		8	.1																	15
	24+50		7	.1																	16
	25		9	.1																	17
	25+50		3	.1																	18
	26	N.S.																			19
	26+50	N.S.																			20
	27	N.S.																			21
	27+50		6	.6																	22
	28		24	5																	23
	28+50		3	3																	24
	29		13	.2																	25
	29+50		7	.1																	26
	30		9	.1																	27
	30+50		40	.9																	28
	31		16	.2																	29
	31+50		48	.3																	30
	32	N.S.																			31
	32+50		13	.1																	32
14W	33	N	27	.6																	33
																					34
16W	17	N	27	.2																	35
	17+50		68	3.2																	36
	18		6	.1																	37
16W	18+50	N	7	.1																	38
																					39
																					40

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All results are in PPM.  
DIGESTION:.....  
DETERMINATION:.....

DATE SAMPLES RECEIVED Aug. 5, 1981  
DATE REPORTS MAILED Aug. 10, 1981  
ASSAYER DL

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



To: TenQuille Resources Ltd.

ACME ANALYTICAL LABORATORIES LTD.

Assaying & Trace Analysis

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

phone:253 - 3158

File No. 81-0966

Type of Samples Soil

GEOCHEMICAL ASSAY CERTIFICATE

Disposition

Suey

2

Table with columns for SAMPLE No., Cu, Ag, and numbered rows 1-40. Includes sample identifiers like 16W 19 N and values for Cu and Ag.

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DIAGNOSIS:.....

DETERMINATION:.....

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Disposition

Suey

3

SAMPLE No.	Cu	Ag							
18W 21 N	7	.2							1
21+50	12	.3							2
22	12	.6							3
22+50	25	.4							4
23	30	.2							5
23+50	19	.5							6
24	18	.1							7
24+50	4	.1							8
25	10	.2						org.	9
25+50	N.S.								10
26	N.S.								11
26+50	14	.3							12
27	18	.1							13
27+50	9	.3							14
28	14	.1							15
28+50	13	.1							16
29	12	.1							17
29+50	13	.1							18
30	9	.1							19
30+50	17	.1							20
31	11	.2							21
31+50	5	.1							22
18W 32 N	33	.2							23
									24
20W 17 N	12	.3							25
17+50	18	.6							26
18	6	.8							27
18+50	8	.2							28
19	69	2.3							29
19+50	35	.6							30
20	7	.1							31
20+50	38	1.3						org.	32
21	16	.2							33
21+50	6	.1							34
22	15	.2							35
22+50	19	.5							36
23	10	.1							37
23+50	44	.4						org.	38
20W 24 N	26	.2							39
									40

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Type of Samples Soil

Disposition

GEOCHEMICAL ASSAY CERTIFICATE

Suey

4

Table with columns: SAMPLE No., Cu, Ag, and numbered rows 1-40. Data includes sample IDs like 20W 24+50 N and values for Cu and Ag.

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DETERMINATION:.....

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File No. \_\_\_\_\_

Type of Samples Soil

### GEOCHEMICAL ASSAY CERTIFICATE

Disposition \_\_\_\_\_

Suey

5

SAMPLE No.	Cu	Ag								
22W 27+50 N	12	.1								1
28	26	.3								2
28+50	25	.2								3
29	41	.1								4
29+50	32	.2								5
30	15	.1								6
30+50	9	.1								7
31	24	.1								8
31+50	18	.1								9
22W 32 N	54	.1								10
24W 17 N	18	.1								11
17+50	5	.1								12
18	26	.1								13
18+38	90	.4								14
18+84	28	3.1								15
19+50	29	.2								16
20	47	.4								17
20+50	6	.1								18
21	69	1.3								19
21+50	36	.6								20
22	41	2.6								21
22+50	25	.3								22
23	52	.1								23
23+50	43	.3								24
24	9	.2								25
24+50	26	.1								26
25	20	.2								27
25+50	11	.1								28
26	65	.1								29
26+50	20	.1								30
27	27	.2								31
27+50	55	.2								32
28	36	.3								33
28+50	60	.5								34
29	30	.1								35
29+50	11	.1								36
24W 30 N	9	.2								37
										38
										39
										40

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DETERMINATION:.....

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CHIEF CHEMIST  
CERTIFIED B.C. ASSAYER



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phone:253 - 3158

File No. 81-0966

Type of Samples Soil

GEOCHEMICAL ASSAY CERTIFICATE

Disposition

Suey

Table with columns: SAMPLE No., Cu, Ag, and numbered rows 1-40. Includes sample IDs like 24W 30+50 N and values for Cu and Ag.

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Disposition

### GEOCHEMICAL ASSAY CERTIFICATE

Suey

8

SAMPLE No.		Cu	Ag							
28W 29+50 N		17	.1							1
30		28	.1							2
30+50		24	.1							3
31		36	.1							4
31+50	N.S.									5
32		32	.1							6
32+50		6	.1							7
33		27	.1							8
33+50		36	.2							9
34		70	.2							10
34+50		19	.2							11
35		13	.1							12
35+50		40	.3							13
36		123	.2							14
36+50		40	.2							15
37		20	.1							16
37+50		23	.2							17
38		20	.1							18
38+50		49	.3							19
28W 39 N		50	.3							20
										21
30W 25 N		53	2.2							22
25+50		14	.4							23
26		97	.6							24
26+50		29	.2							25
27	N.S.									26
27+50	N.S.									27
28		20	.2							28
28+50		42	.1							29
29		52	.8							30
29+50		27	.2							31
30		19	.3							32
30+50		14	.1							33
31		19	.1							34
31+50		33	.3							35
32		24	.2							36
32+50		34	.3							37
30W 33 N	N.S.									38
										39
										40

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DETERMINATION:.....

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ASSAYER

*SKO*

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





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phone:253 - 3158

File No. 81-0966

Type of Samples Soil

Disposition

### GEOCHEMICAL ASSAY CERTIFICATE

Suey

10

SAMPLE No.	Cu	Ag								
32W 38 N	136	.3								1
38+50	16	.2								2
32W 39 N	19	.1								3
										4
34W 25 N	45	.1								5
25+50	18	.1								6
26	19	.1								7
26+50	20	.1								8
27	11	.1								9
27+50	34	.1								10
28	25	.1								11
28+50	40	.2								12
29	78	.7								13
29+50	42	.6								14
30	107	2.1								15
30+50	20	.1								16
31	12	.1								17
31+50	11	.2								18
34W 32 N	9	.1								19
										20
34W 32+50 N	38	.6								21
33	21	.1								22
33+50	6	.1								23
34	20	.1								24
34+50	13	.1								25
35	31	.3								26
35+50	24	.1								27
36	62	1.4								28
36+50	36	.2								29
37	6	.1								30
37+50	7	.1								31
38	43	.2								32
38+50	57	.5								33
34W 39 N	22	.3								34
										35
										36
										37
										38
										39
										40

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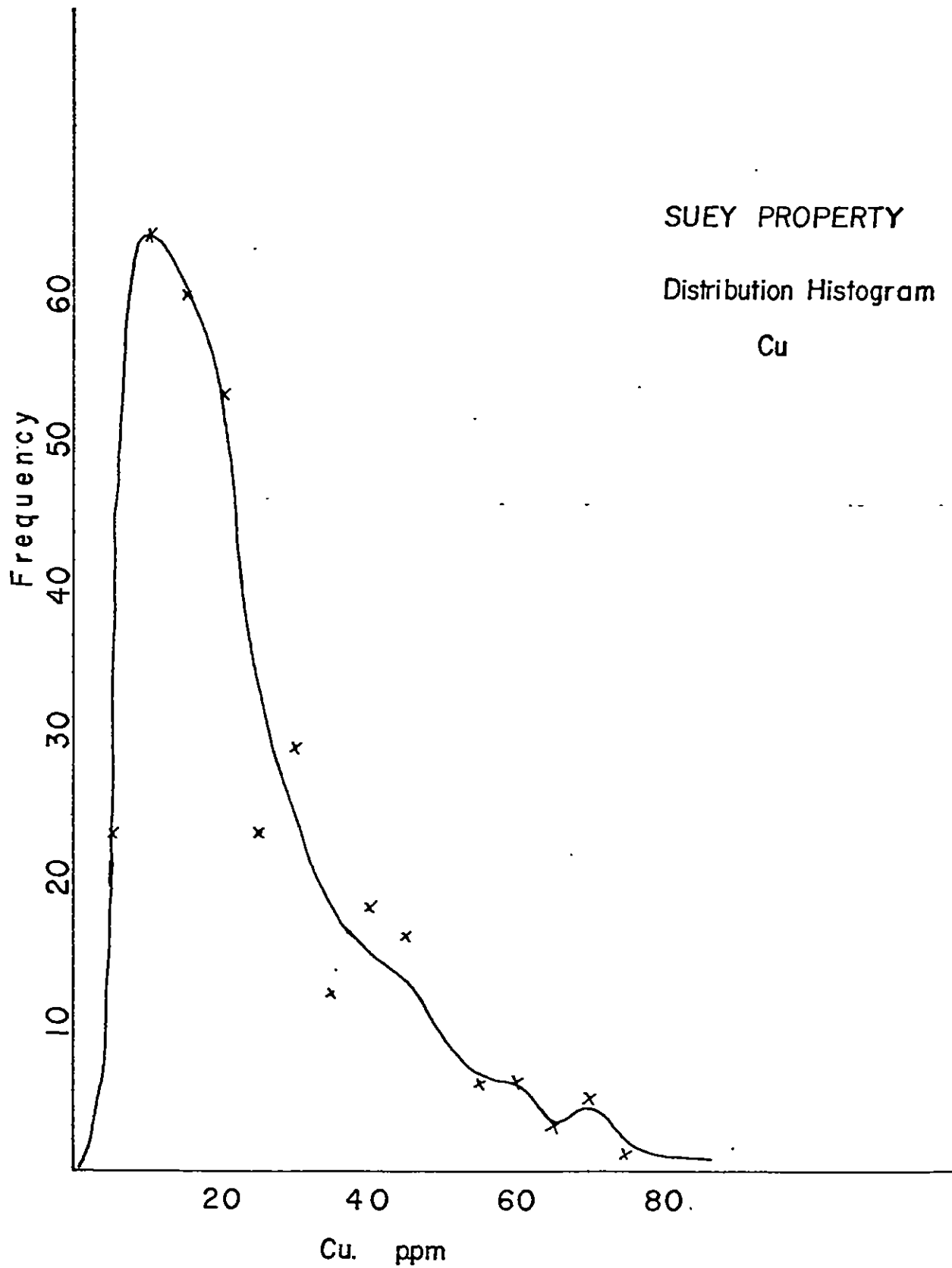
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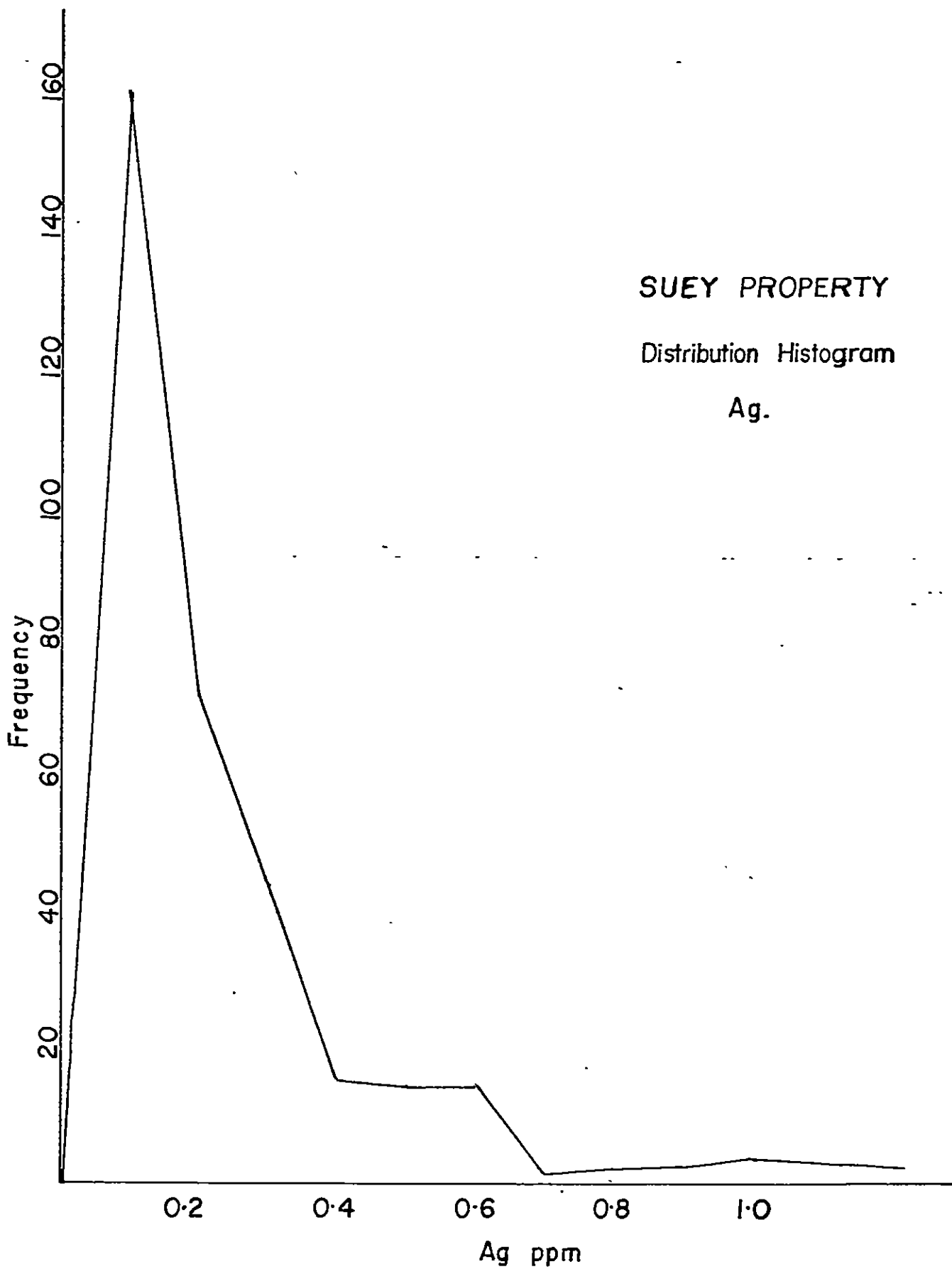
ASSAYER CKC

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

APPENDIX "B"

DISTRIBUTION HISTOGRAMS





APPENDIX "C"



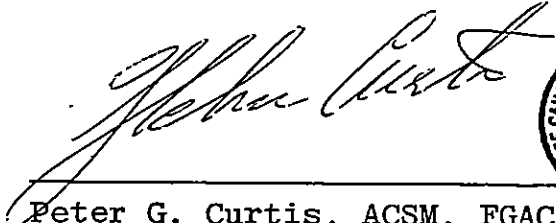
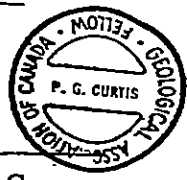
APPENDIX "C"

QUALIFICATIONS OF SUPERVISOR AND AUTHOR OF THIS REPORT

I, Peter G. Curtis, DO HEREBY CERTIFY:

- (1) THAT I am a graduate of the Camborne School of Mines, Cornwall, England, with an additional diploma in Applied Geochemistry.
- (2) THAT I have been employed in mineral exploration in Canada since 1967 (10 years with ASARCO Exploration Company of Canada Ltd.).
- (3) THAT I am a Fellow of the Geological Association of Canada.

DATED AT VANCOUVER, BRITISH COLUMBIA THIS 10th DAY  
OF AUGUST 1981.

Peter G. Curtis, ACSM, FGAC

APPENDIX D

Statement of Costs, Suey Lake Groups.

Camp set up, maintenance and breakdown; 17.8 line Km of geochemical sampling were accomplished in 10 days. The costs were as follows.

Wages		per diem.		
P. Curtis	Supervisor	200		
G. Johnson	Chief sampler	150		
B. McRae	Sampler	100		
D. Montrose	Sampler	100		
E. Lowry	Sampler	100		
		<u>650</u>		
U.I.C., C.P.P. & Office	15%	97.50		
		<u>747.50</u>	X 10	7475.00
Camp Costs				980.00
Food				600.00
Vehicles 3 X 4by4	@	60		1800.00
Boat rental		80		800.00
Helicopter	9 hours			3600.00
338 samples for Cu & Ag @ 2.65				895.00
Report preparation				<u>600.00</u>
				<u>16750.00</u>

To be divided between;

Suey East Gp. 100 Units

Suey West Gp. 60 Units

These figures were supplied by Team Mineral Services of Vancouver B.C.

*John Curtis*  
7/6/82

