



GEOCHEMICAL REPORT ON THE  
THOR 1-22 MINERAL CLAIMS  
WATSON LAKE MINING DISTRICT  
Latitude  $60^{\circ} 25'$  North; Longitude  $125^{\circ} 56'$  West  
N.T.S. Map Sheet 95C/5W



Based on work completed between  
July 15 and August 15, 1980

For  
E & B Explorations Ltd.

By  
R.R. Culbert, PhD., P.Eng.

090846

D.G. Leighton & Associates Ltd.

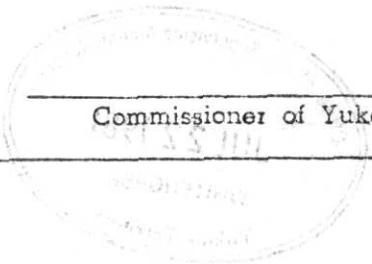
15 June, 1981

This report has been examined by the Geological Evaluation Unit and is recommended to the Commissioner to be considered as representation work in the amount of \$ 4,400.00

*Ruth Debricki* *A Reg. Geol.*  
Resident Geologist or  
Resident Mining Engineer

Considered as representation work under  
Section 59 (4) Yukon Quartz Mining Act.

\_\_\_\_\_  
Commissioner of Yukon Territory



*210000*

FROM: Mining Recorder at WATSON LAKE

Supervising Mining Recorder at Whitehorse, Y.T.



FOR ACTION ARE:

NEW APPL'N for PLACER LEASE to PROSPECT: Name:

RENEWAL APPL'N PLACER LEASE to PROSPECT: Name:

Lease No. ....

AFFIDAVIT of EXPENDITURE on PLACER LEASE. Name:

Lease No. ....

ASSIGNMENT of PLACER LEASE No. ....

From:

To:

GROUPING APPL'N UNDER SEC. 52(2) PLACER MINING ACT.

Owner:

DIAMOND DRILL LOGS:

Claims:

Claim sheet no:

QUARTZ ASSESSMENT REPORT

Claims: Thor 1-22

Claim sheet no. 95-C-5

Type of report: Geochemical

Submitted by: E+B Explorations Ltd.  
(R.R. Culbert)

Cls. work performed on: Thor 1-22

\$ Req. for ren. application \$4,400

J.M. Edelmer

Signature

REPLY ACTION

Date Ret.

Signature

090846



Department of Indian Affairs and Northern Development  
YUKON QUARTZ MINING ACT

FORM "C" - APPLICATION FOR A CERTIFICATE OF WORK

(This form required in duplicate with sketch showing location of work.)



I (Name)	D.G. Leighton	Occupation	Geologist
(Postal Address)	3155 West 12th Ave. Vancouver, B.C. V6K 2R0		

OFFICE DATE STAMP

MAKE OATH AND SAY, THAT :-

1. I am the owner, or agent of the owner, of the mineral claim(s) to which reference is made herein.

2. I have done, or caused to be done, work on the following mineral claim(s):  
(Here list claims on which work was actually done by number and name)

YA 55533 - YA 55540	THOR 1- 8 inclusive
YA 55943 - YA 55944	THOR 9-10 inclusive

situated at BEAVER RIVER Claim Sheet No. 95C/5W  
in the WATSON LAKE Mining District, to the value of at least \$ 5,000  
dollars, since the 15th day of July 19 80,

to represent the following mineral claims under the authority of Grouping Certificate No. 2968  
(Here list claims to be renewed in numerical order, by grant number and claim name, showing renewal period requested.)

YA 55533 - YA 55540	THOR 1- 8 inclusive
YA 55943 - YA 55944	THOR 9-10 inclusive

Apply two years to each of the above ten mineral claims.

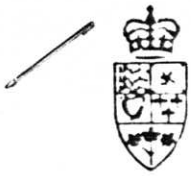
3. The following is a detailed statement of such work: (Set out full particulars of the work done indicating dates work commenced and ended in the twelve months in which such work is required to be done as shown by Section 53)

See geochemical report attached.

Photocopies of receipts for expenditures related to work on the THOR property are attached.  
Additional backup information will be supplied upon request.

Sworn before me at Vancouver B.C.  
this 2 day of July 19 81  
[Signature]  
Notary Public  
Basil Coleman

D.G. Leighton  
Applicant.



Department of Indian Affairs and Northern Development  
YUKON QUARTZ MINING ACT

FORM "C" - APPLICATION FOR A CERTIFICATE OF WORK

(This form required in duplicate with sketch showing location of work.)



I (Name)	D.G. Leighton	Occupation	Geologist
(Postal Address)	3155 West 12th Ave. Vancouver, B.C. V6K 2R6		

MAKE OATH AND SAY, THAT :-

1. I am the owner, or agent of the owner, of the mineral claim(s) to which reference is made herein.

2. I have done, or caused to be done, work on the following mineral claim(s):  
(Here list claims on which work was actually done by number and name)

YA 55945 - YA 55950	THOR 11-16 inclusive
YA 55541 - YA 55543	THOR 17-19 inclusive
YA 55936 - YA 55938	THOR 20-22 inclusive

situated at BEAVER RIVER Claim Sheet No. 95C/5W  
In the WATSON LAKE Mining District, to the value of at least \$5,000  
dollars, since the 15th day of July 19 80

to represent the following mineral claims under the authority of Grouping Certificate No. 2969  
(Here list claims to be renewed in numerical order, by grant number and claim name, showing renewal period requested.)

YA 55945 - YA 55950	THOR 11-16 inclusive
YA 55541 - YA 55543	THOR 17-19 inclusive
YA 55936 - YA 55938	THOR 20-22 inclusive

Apply two years to each of the above claims.

3. The following is a detailed statement of such work: (Set out full particulars of the work done indicating dates work commenced and ended in the twelve months in which such work is required to be done as shown by Section 53)

See geochemical report attached.

Photocopies of receipts for expenditures related to work on the THOR property are attached.  
Additional backup information will be supplied upon request.

Sworn before me at Vancouver B.C.  
this 2 day of July 1981  
[Signature]  
Notary Public  
British Columbia

[Signature]  
Applicant.

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**D. G. LEIGHTON & ASSOCIATES LTD.**  
GEOLOGICAL CONSULTANTS

GENERAL OFFICE:  
101 - 1687 West Broadway,  
Vancouver, B.C. V6J 1X2  
Telephone (604) 734-7711

ENGINEERING:  
3155 West 12th Avenue,  
Vancouver, B.C. V6K 2R6  
Telephone (604) 731-7367

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THOR CLAIMS  
BEAVER RIVER, Y.T.

INTRODUCTION

This report describes the results of geochemical and prospecting work completed on the THOR claims during 1980. The program was part of a larger project which included evaluation of the nearby SID-KID-VISTA property and regional exploration for lead-zinc and uranium mineralization in the Beaver River area.

The work was undertaken on behalf of E & B Explorations Ltd. of Calgary, Alberta. Work on the THOR claims was completed at intervals between July 15th and August 15th, 1980.

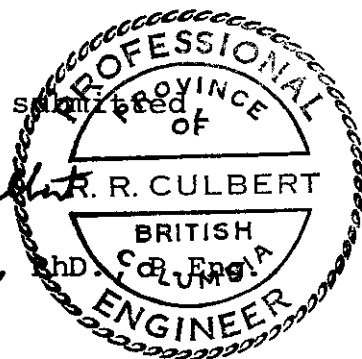
SUMMARY

- 1) The THOR property is comprised of 22 unsurveyed mineral claims located near the Beaver River about 170 kilometers east of Watson Lake.
- 2) The property is underlain mainly by limestone and argillites of lower Paleozoic age.
- 3) The claims occupy an area anomalous in lead, zinc and barium and contain a number of bedrock showings. While some of these are clearly remobilized metal in vein stockworks, possibly related to a nearby intrusive syenite stock, others more distant from syenite appear to be strata-bound.
- 4) No indications of uranium mineralization were seen in the THOR claims.
- 5) It is concluded that any follow-up exploration in lead-zinc should include soil sampling. Anomalous areas should be hand trenched.

Respectfully submitted

*R.R. Culbert*

R.R. Culbert, Ph.D.



15 June, 1981

GENERAL DESCRIPTIONSLocation and access

The THOR claims are located in the Yukon Territory about 170 kilometers east of Watson Lake. Geodetic coordinates are 60° 25' N; 125° 56' W.

Access is by way of helicopter from Watson Lake. Float planes can land at nearby Toobally Lakes, from which heavy equipment can be ferried to the property.

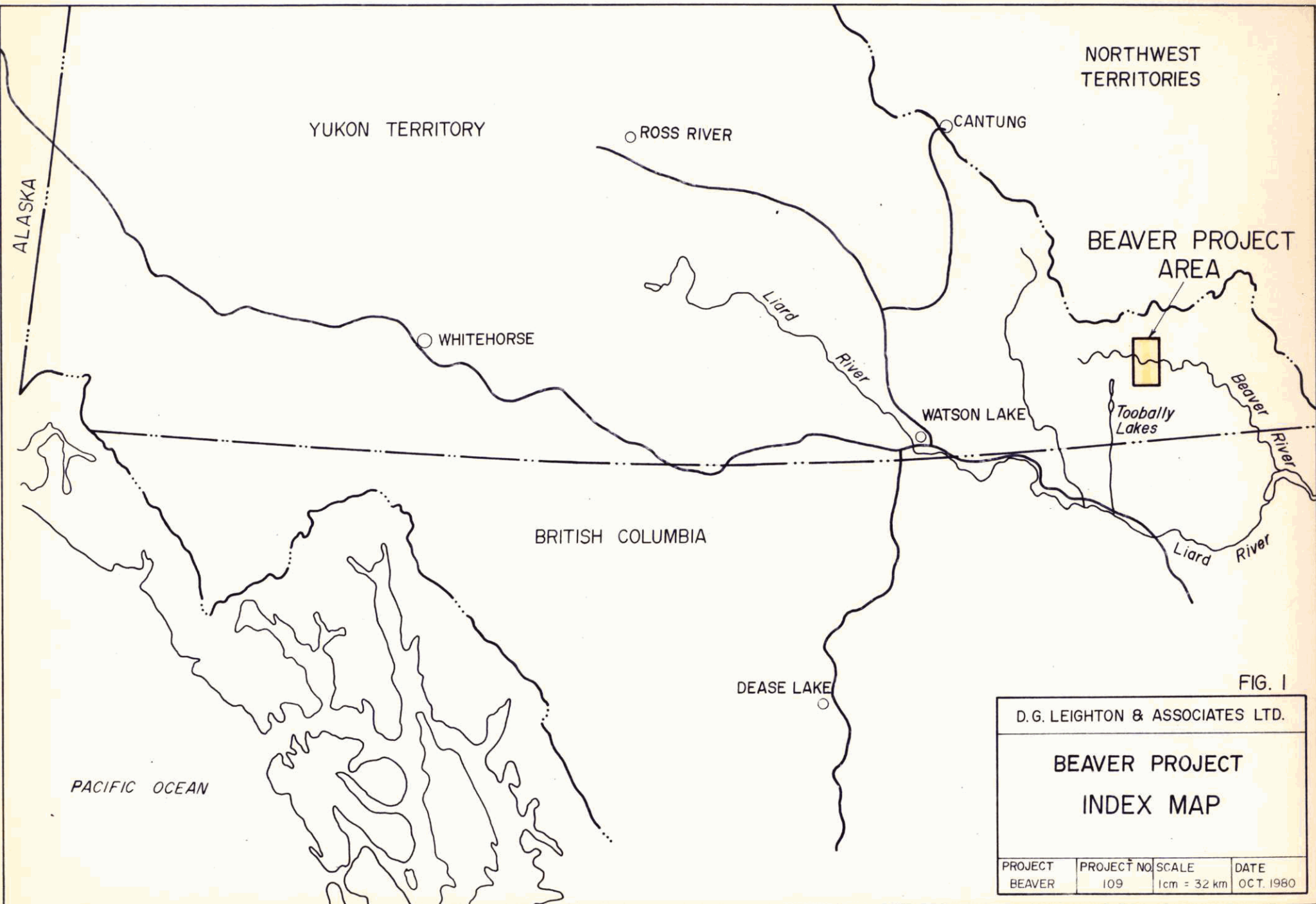
History

There is no record of previous work being done in the area covered by the THOR 1-22 mineral claims. A few silt samples collected by Silver Standard personnel in the past had indicated anomalous values.

Claims

The THOR property consists of the following claims:

<u>Claims</u>	<u>Tag (Record) No.</u>	<u>Staking Date</u>	<u>Record Date</u>
THOR 1-8	YA 55533-40	1 July, 1980	16 July, 1980
THOR 7 & 8		2 July, 1980	
THOR 9-16	YA 55943-50	4 Aug., 1980	7 Aug., 1980
THOR 17-19	YA 55541-43	3 July, 1980	16 July, 1980
THOR 20-22	YA 55936-38	28 July, 1980	6 Aug., 1980



NORTHWEST TERRITORIES

YUKON TERRITORY

ROSS RIVER

CANTUNG

ALASKA

BEAVER PROJECT AREA

WHITEHORSE

Liard River

Toobally Lakes

Beaver River

WATSON LAKE

BRITISH COLUMBIA

Liard River

DEASE LAKE

PACIFIC OCEAN

FIG. 1

D.G. LEIGHTON & ASSOCIATES LTD.			
<b>BEAVER PROJECT INDEX MAP</b>			
PROJECT BEAVER	PROJECT NO. 109	SCALE 1cm = 32 km	DATE OCT. 1980

GEOLOGY

The Beaver River area in the vicinity of the THOR claims is underlain by a suite of early Paleozoic sedimentary rocks including dark grey shales and carbonates.<sup>1</sup>

The sediments have been intruded by a mainly syenitic alkaline complex. The Beaver River fault cuts through this area. The geology of the THOR claims is shown in Figure 3A.

The large belt of dirty limestone and limey argillites which runs to the west and northwest of the syenite intrusion is of high background Pb/Zn geochemistry, and stream sediment sampling in this region demonstrated several strong anomalies. Although rock exposure is poor (in fact, non-existent over large areas), a few days of prospecting in this terrain turned up scattered occurrences of mineralization in limey shales. Some of these were clearly remobilized into vein stockworks resulting from adjacent intrusions, but others were more distant from the syenite and appeared to be strata-bound.

Black shale and carbonate sequences with high lead-zinc backgrounds and scattered pods of mineralization are not uncommon in the eastern Yukon, and although they indicate fertile areas for exploration, they must be interpreted within the regional context. In this view, the following reasons may be advanced for continuing to at least the follow-up stages of exploration:

- i. Unlike some other portions of the east Yukon lead-zinc belt, geochemistry seems to work fairly well here, clearly indicating the mineralized areas found to date.

1 Map 1380A "La Biche River" compiled by R.J.W. Douglas (1974) Geological Survey of Canada.

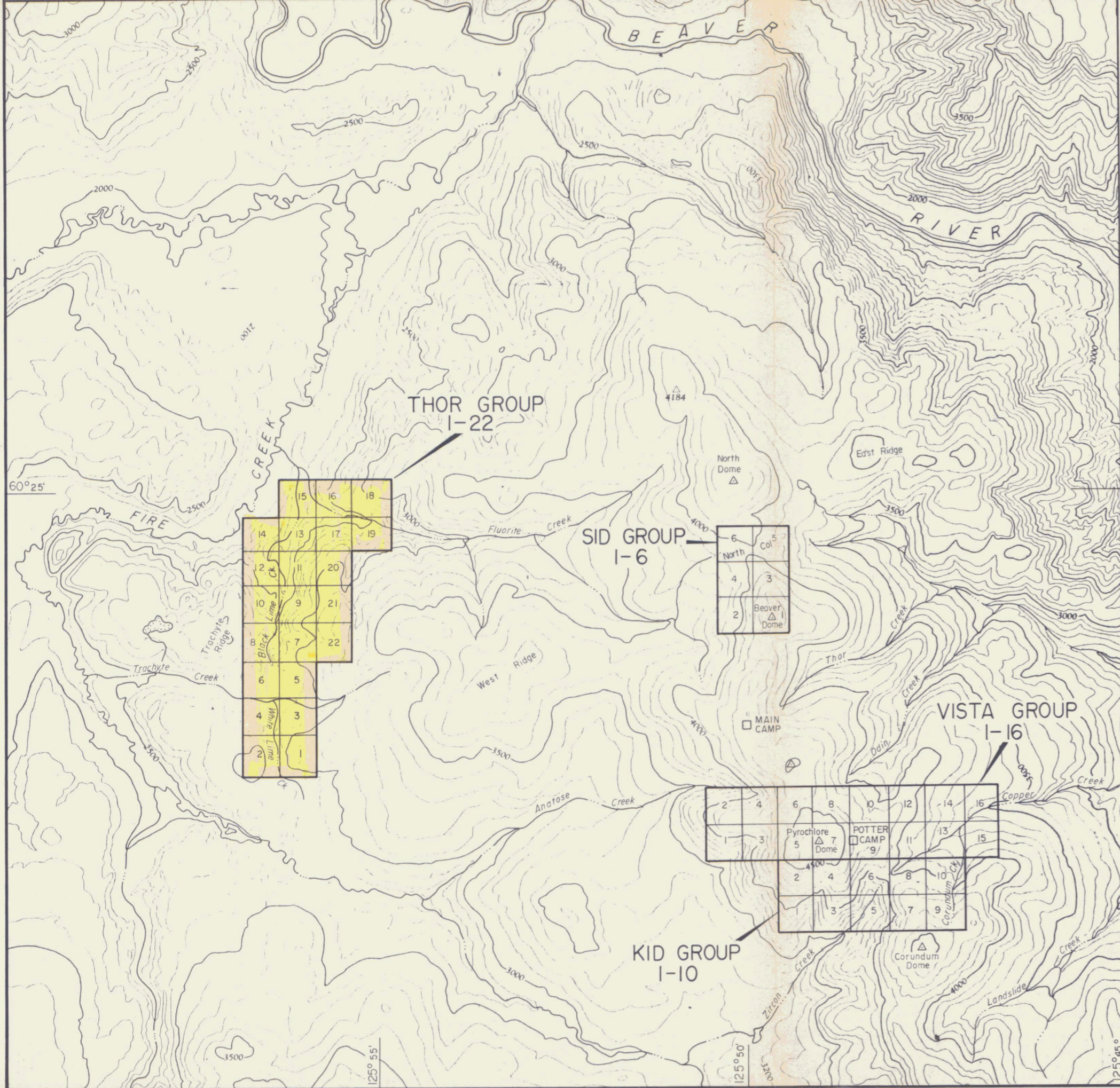


FIGURE 2

D. G. LEIGHTON & ASSOCIATES LTD.

**BEAVER PROJECT  
LOCATION MAP  
SHOWING CLAIMS & FEATURES  
REFERRED TO IN REPORT**

Project. BEAVER	Project No. 109	Scale. 1:50,000	Date. Dec. 1980
--------------------	--------------------	--------------------	--------------------

- ii. Outcrop is poor, but much of the terrain seems well suited to soil geochemistry, and overburden appears to be shallow in most areas.
- iii. There is no indication of previous exploration. Overburden would have precluded serious prospecting, and no geochemical sampling ribbons were found except for those of the Silver Standard.
- iv. The sedimentary sequence appears to involve a transition between carbonate and shale depositional environments in the lower Paleozoic, which makes it one of the more hopeful sites.
- v. There is a possibility of mineral concentrations by hydrothermal or contact metamorphic processes. This type of reworking appears to have been active in part of the Mac Pass deposit and also on the Ting property to the northwest of the adjacent syenite intrusives.

#### GEOCHEMISTRY

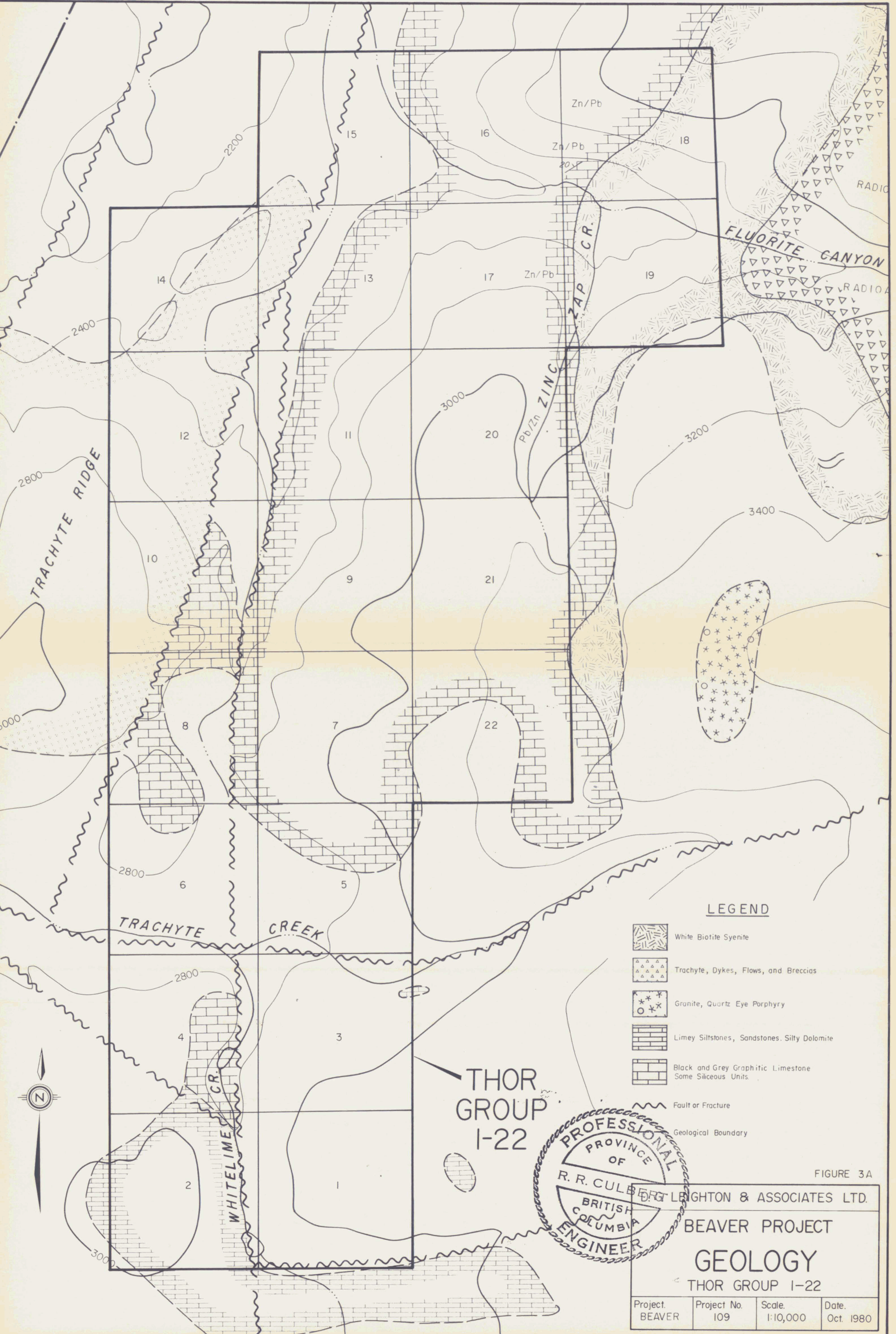
Following some initial work by the Silver Standard crew, a large belt of anomalous lead and zinc sediments was outlined. Silver and barium anomalies were also demonstrated.

The anomalous region follows a belt of dirty or carbonaceous limestones and limey argillites. Interpretation of Pb/Zn geochemistry in the shale/carbonate sequences of the Eastern Yukon (and of black shales elsewhere) has proved difficult due to high background source rocks, to widespread but small occurrences of mineralization and to the interplay between pyrite and carbonates in setting

groundwater pH. The following points suggest that geochemistry may be more useful here than in many other localities:

- i. Known mineral occurrences showed good geochemical response with respect to background in both soils and small creeks.
- ii. Lead-zinc ratios fell away from sources, and may be useful in detailed work.
- iii. Several distinct anomalies occur in areas of poor outcrop.
- iv. Pyrite is rare.

The location of samples collected in the vicinity of the THOR claims is shown in Figure 3B. Uranium and thorium results are presented in Figure 3C. These are negative and no further work is warranted. The lead-zinc results are provided in Figure 3D.



**LEGEND**

-  White Biotite Syenite
-  Trachyte, Dykes, Flows, and Breccias
-  Granite, Quartz Eye Porphyry
-  Limey Siltstones, Sandstones, Silty Dolomite
-  Black and Grey Graphitic Limestone, Some Siliceous Units
-  Fault or Fracture
-  Geological Boundary

**THOR GROUP  
I-22**

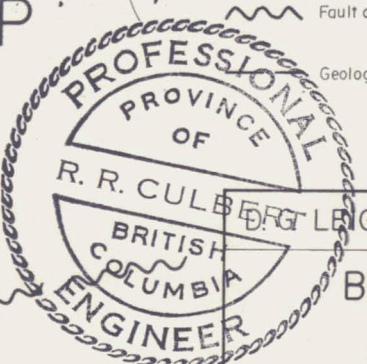
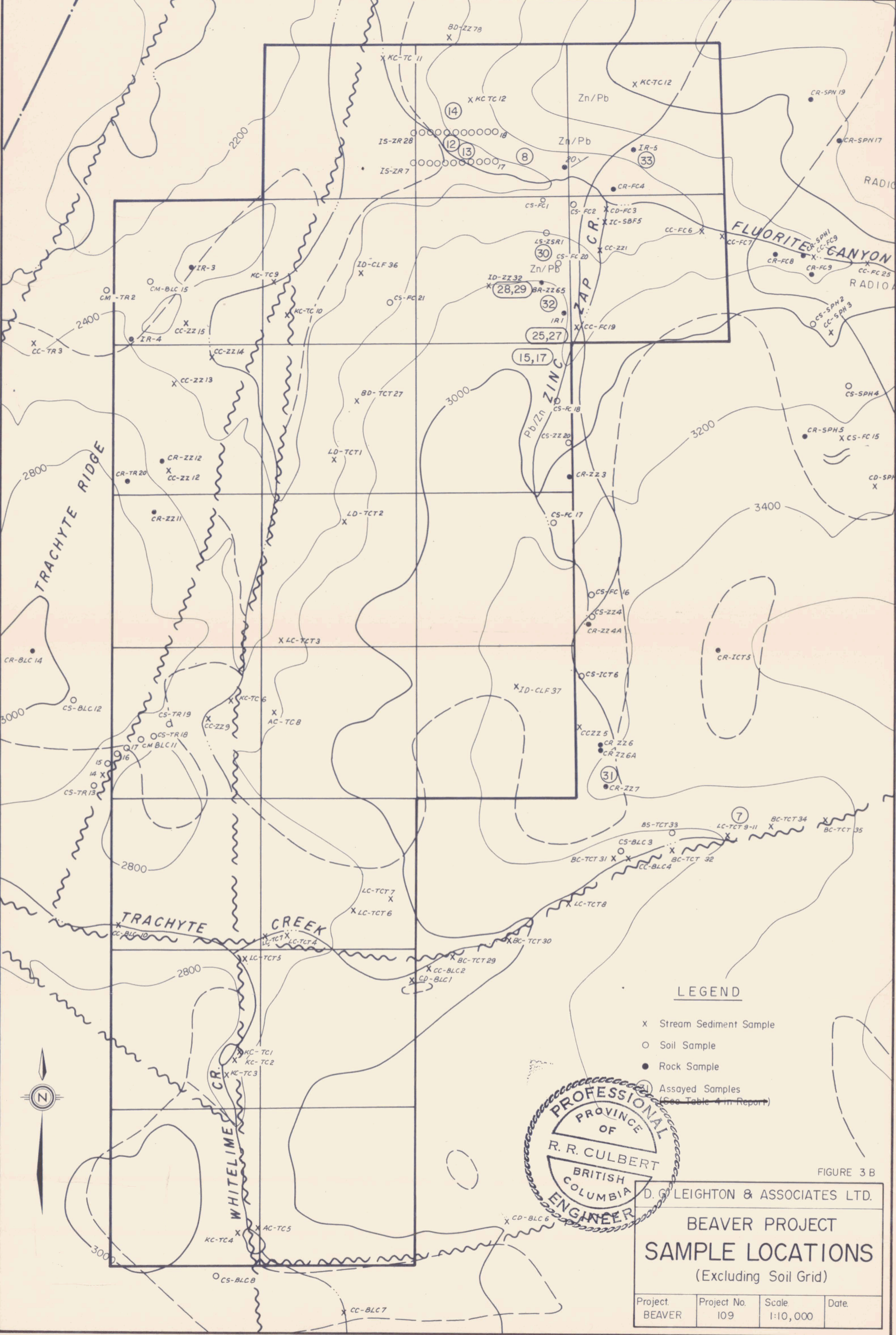


FIGURE 3A

BEAVER PROJECT			
<b>GEOLOGY</b>			
THOR GROUP I-22			
Project BEAVER	Project No. 109	Scale. 1:10,000	Date. Oct. 1980



**LEGEND**

- X Stream Sediment Sample
- O Soil Sample
- Rock Sample
- (1) Assayed Samples (See Table 4 in Report)

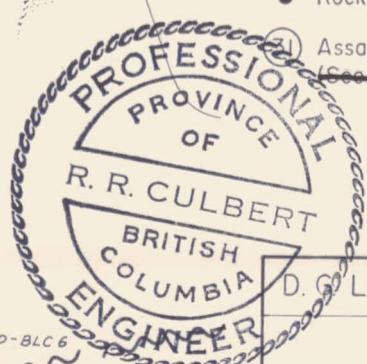
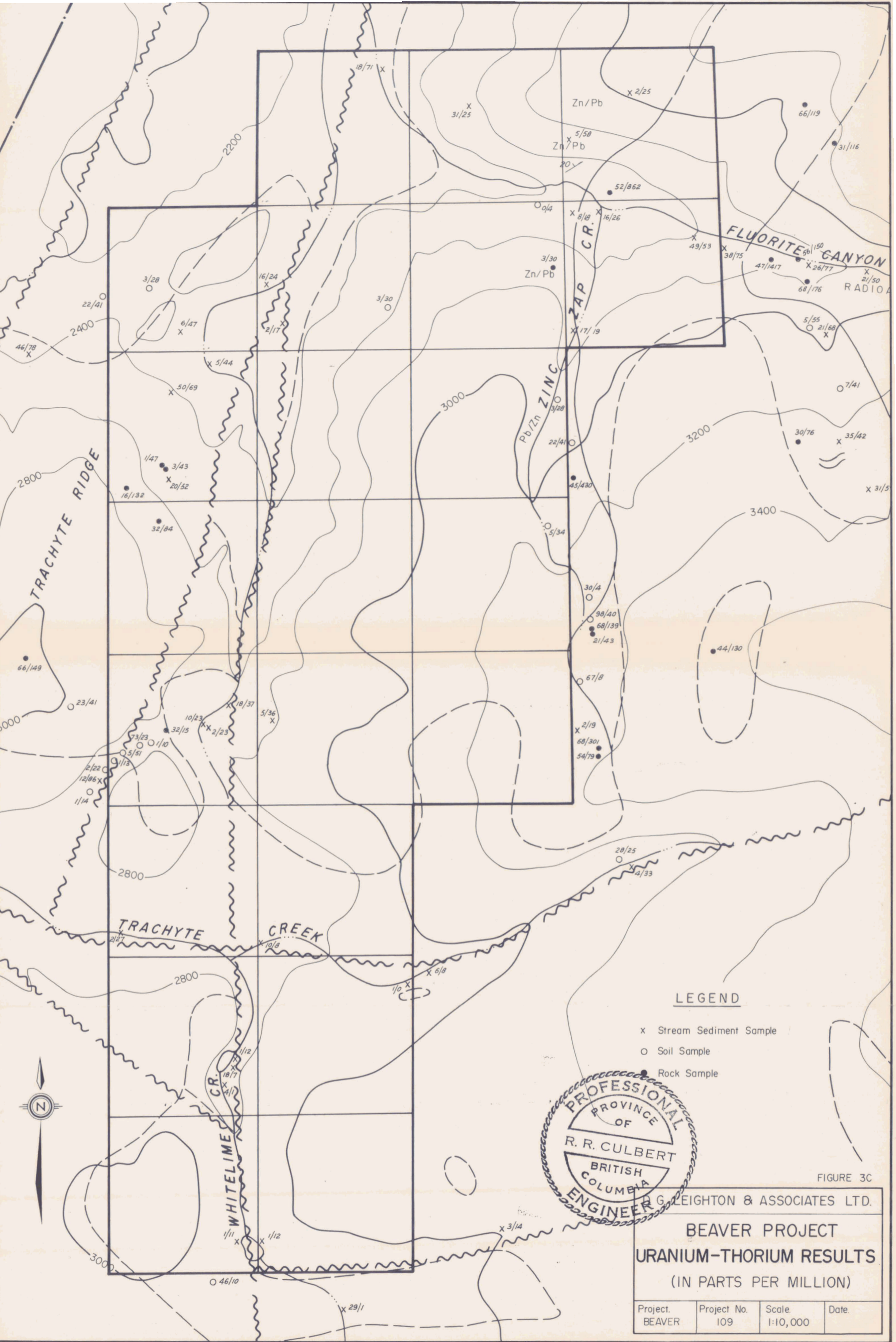


FIGURE 3 B

D. G. LEIGHTON & ASSOCIATES LTD.

**BEAVER PROJECT  
SAMPLE LOCATIONS  
(Excluding Soil Grid)**

Project BEAVER	Project No. 109	Scale 1:10,000	Date.
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**LEGEND**

- x Stream Sediment Sample
- o Soil Sample
- Rock Sample

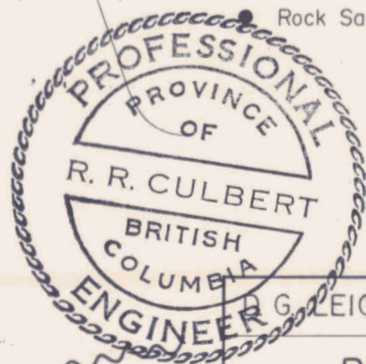
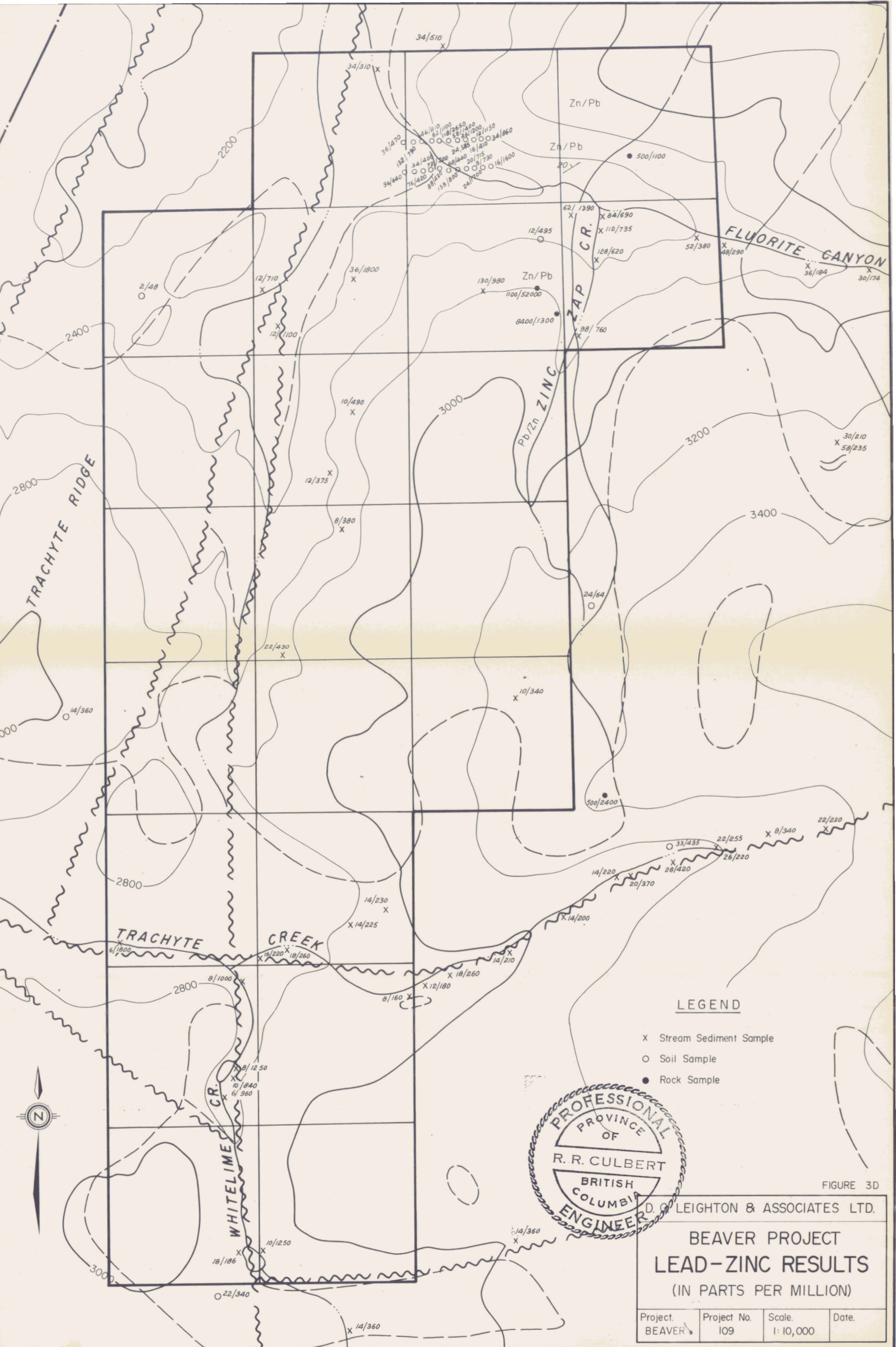


FIGURE 3C

G. LEIGHTON & ASSOCIATES LTD.

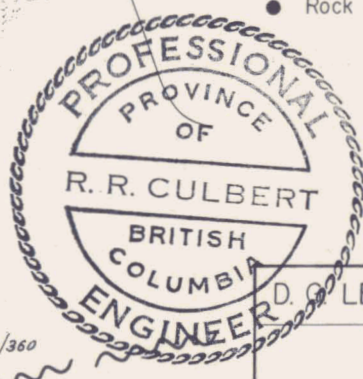
**BEAVER PROJECT  
URANIUM-THORIUM RESULTS  
(IN PARTS PER MILLION)**

Project.	Project No.	Scale.	Date.
BEAVER	109	1:10,000	



**LEGEND**

- X Stream Sediment Sample
- O Soil Sample
- Rock Sample



D. C. LEIGHTON & ASSOCIATES LTD.

**BEAVER PROJECT  
LEAD-ZINC RESULTS  
(IN PARTS PER MILLION)**

Project. BEAVER	Project No. 109	Scale. 1: 10,000	Date.
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FIGURE 3D

BREAKDOWN OF COSTS (for assessment purposes)

Wages and salaries	\$3,900	
Benefits @ 15%	<u>585</u>	\$4,485
Meals and accommodation		
40 man days @ \$35/man/day		1,400
Transport - mainly helicopter		2,500
Assay costs		
40 samples @ \$8.05		320
Miscellaneous; includes report preparation, equipment rental, etc.		<u>900</u>
	THOR property total	<u>\$9,605</u> =====

The following were directly involved with field work on the THOR property in 1980:

R.J. Bilquist, prospector	c/o Box 81, Gabriola Island, B.C.
D.T. Kenning, field technician	304 West 11th Ave. Vancouver, B.C.
Jay Page, field technician	670 Vancouver Ave., Penticton, B.C.
R.R. Culbert, geologist	c/o 3155 West 12th Ave., Vancouver, B.C.

CERTIFICATION

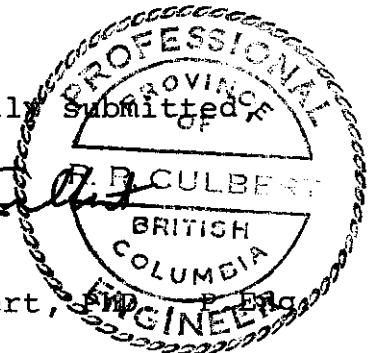
I, R.R. Culbert, do hereby certify that:

1. I am a practicing Professional Geological Engineer with offices at 3155 West 12th Avenue, Vancouver, B.C.
2. I am a graduate of the University of British Columbia, B.A.Sc. (1964), Ph.D. (1971).
3. I have practiced mining exploration for sixteen years, most of which were based in British Columbia.
4. I am a member in good standing of the Association of Professional Engineers of the Province of British Columbia.
5. I have personally visited the THOR property and supervised exploration work carried out there.

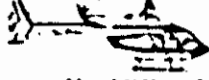
Respectfully

*R.R. Culbert*

R.R. Culbert,



15 June, 1981



# Frontier Helicopters Ltd.

TICKET/INVOICE

Head Office: P.O. BOX 220, ABBOTSDALE (ORD), B.C. V2S 4N9 TEL: 853-5887

VAN. (604) 526-0400  
WATSON LAKE (403) 53

CHARTERER <b>LEIGHTON + ASSOC</b>			DATE <b>7/7/80</b>	PILOTS NAME	
ADDRESS			A/C <b>FH1</b>	PRINT <b>J. SAUNDERS</b>	
POSTAL CODE			TYPE <b>2066</b>	SIGNATURE <i>[Signature]</i>	
REMARKS <b>WATSON - GROC TO TERRACEY LK CAMP - CAMP MOVE - WATSON</b>			PASS	CARGO	TIME
TERMS NET 10 DAYS			TOTALS		<b>2.4</b>

FUEL SUPPLIED BY CUST. <input checked="" type="checkbox"/> FRONTIER <input type="checkbox"/>		
FRONTIER FUEL		
<b>38</b> GALS. FROM <b>WATSON</b> AT <b>1.43</b>	PER	
— GALS. FROM —	AT —	PER
— GALS. FROM —	AT —	PER
FUEL COST	\$ <b>54.3</b>	
FLYING <b>2.4</b> HRS. AT \$ <b>390<sup>00</sup></b>	\$ <b>936.0</b>	
EXPENSES	\$	
AUTHORIZED BY	PRINT <b>Dick Culbert</b>	
SIGNATURE		
TICKET No	<b>6650</b>	CHEQUE <input type="checkbox"/> CASH <input type="checkbox"/> CHAI
		P.O.
TOTAL	\$ <b>990.34</b>	

By the signing of this flight report I acknowledge that the terms and conditions thereof as set forth in the tariff filed with the A.T.B. are available for examination at Frontier Helicopters Ltd.



# Frontier Helicopters Ltd.

FLIGHT TICKET/INVOICE

Head Office: P.O. BOX 220, ABBOTSFORD, B.C. V2S 4N9 TEL: 853-5887

VAN. (604) 526-0400  
WATSON LAKE (403):

CHARTERER <b>LEIGHTON + ASSOC.</b>			DATE <b>4/7/80</b>	PILOTS NAME	
ADDRESS			A/C <b>XEA</b>	PRINT <b>J. SAUNDERS</b>	
POSTAL CODE			TYPE <b>2066</b>	SIGNATURE <i>[Signature]</i>	
REMARKS <b>WATSON - GROC. TO TERRACEY LKS CAMP, MOVE CREWS + EQUIP. - WATSON.</b>			PASS	CARGO	TIME
TERMS NET 10 DAYS			TOTALS		<b>2.4</b>

FUEL SUPPLIED BY CUST. <input type="checkbox"/> FRONTIER <input checked="" type="checkbox"/>		
FRONTIER FUEL		
<b>53</b> GALS. FROM <b>WATSON</b> AT <b>1.43</b>	PER	
— GALS. FROM —	AT —	PER
— GALS. FROM —	AT —	PER
FUEL COST	\$ <b>75.7</b>	
FLYING <b>2.4</b> HRS. AT \$ <b>390<sup>00</sup></b>	\$ <b>936.0</b>	
EXPENSES	\$	
AUTHORIZED BY	PRINT <b>Dick Culbert</b>	
SIGNATURE		
TICKET No	<b>6640</b>	CHEQUE <input type="checkbox"/> CASH <input type="checkbox"/> CHAI
		P.O.
TOTAL	\$ <b>1011.79</b>	

By the signing of this flight report I acknowledge that the terms and conditions thereof as set forth in the tariff filed with the A.T.B. are available for examination at Frontier Helicopters Ltd.



# Frontier Helicopters Ltd.

Head Office: P.O. BOX 220, ABBOTSFORD, B.C. V2S 4N9 TEL. 853-5887

VAN. (604) 526-0400  
WATSON LAKE (403) 536-7766

## FLIGHT TICKET/INVOICE

CHARTERER <b>D. G. LEIGHTON</b>		DATE <b>28/9/80</b>	PILOTS NAME <b>LASKARIN</b>	
ADDRESS		A/C <b>FH1</b>	PRINT	
POSTAL CODE		TYPE <b>2063</b>	SIGNATURE <i>[Signature]</i>	
REMARKS		PASS	CARGO	TIME
<b>WATSON → LEIGHTON CAMP, R. CREW MEET &amp; RETURN</b>				<b>2.8</b>
<b>(approx 3 hrs)</b>				
TERMS NET 10 DAYS	TOTALS			<b>2.8</b>

FUEL SUPPLIED BY CUST. <input type="checkbox"/> FRONTIER <input checked="" type="checkbox"/>	
FRONTIER FUEL	
61.6 GALS. FROM <b>Watson</b>	AT <b>1.43</b> PER GAL.
___ GALS. FROM ___	AT ___ PER GAL.
___ GALS. FROM ___	AT ___ PER GAL.
FUEL COST	\$ <b>88.08</b>
FLYING <b>2.8</b> HRS. AT \$390	\$ <b>1092.00</b>
EXPENSES	\$
AUTHORIZED BY PRINT	<b>DANIEL KENDING.</b>
SIGNATURE	<i>[Signature]</i>
TICKET No <b>6666</b>	CHEQUE <input type="checkbox"/> CASH <input type="checkbox"/> CHARGE <input checked="" type="checkbox"/>
TOTAL	\$ <b>1180.08</b>

By the signing of this flight report I acknowledge that the terms and conditions thereof as set forth in the ... for examination at Frontier Helicopters Ltd.

*Applicable to work  
on THOR 1-22*

0. \*

0.00 +

99.34 +

1011.79 +

1180.08 +

2291.21 \*

# INVOICE

2100 BROOKS  
 NORTH VANCOUVER  
 CANADA  
 TELEPHONE: 984-0600  
 AREA CODE: 604  
 TELEX: 04-352597



## CHEMEX LABS LTD.

ANALYTICAL CHEMISTS • GEOCHEMISTS • REGISTERED ASSAYERS

Leighton & Assoc. Ltd.  
 3155 West 12th Ave.  
 Vancouver, B.C.  
 V6K 2R6

CERTIFICATE NO. 54647

INVOICE NO. 37443

DATE July 31/80

ATTN:

	DESCRIPTION	SUB-TOTAL	TOTAL
40	Analyzed for Pb, Zn, Ag & Ba @ \$6.55	\$262.00	
40	Prepared @ \$0.50	20.00	
			\$282.00

\* 109

TERMS—NET 30 DAYS

1½% Per Month (18% Per Annum) Charged on Overdue Accounts

78-00

Re: THOR 1-22

Re: Thor 1-22

INVOICE



CHEMEX LABS LTD.

212 BROOKSBANK AVE.  
NORTH VANCOUVER, B.C.  
CANADA V7J 2C1  
TELEPHONE: 984-0221  
AREA CODE: 604  
TELEX: 04-352597

ANALYTICAL CHEMISTS

• GEOCHEMISTS

•• REGISTERED ASSAYERS

D. G. Leighton & Assoc. Ltd.  
3155 W. 12th Ave.  
Vancouver, B.C.  
V6K 2R6

CERTIFICATE NO. 556

INVOICE NO. 37657

DATE Aug. 8/80

ATTN:

	DESCRIPTION	SUB-TOTAL	TOTAL
9	Analyzed for Pb & Zn At \$2.35 Prepared @ \$0.50	185.65	
9		39.50	
			\$225.15

109

TERMS—NET 30 DAYS

1½% Per Month (18% Per Annum) Charged on Overdue Accounts

78-1

APPENDIX "A"

ANALYTICAL PROCEDURE

Cu, Pb, Zn, Ag, Cr:

1. Geochemical samples (soils, silts) are dried at 80°C for a period of 12 to 24 hours. The dried sample is sieved to -80 mesh fraction through a nylon and stainless steel sieve. Rock geochemical materials are crushed, dried and pulverized to - 100 mesh.
2. A 1.00 gram portion of the sample is weighed into a calibrated test tube. The sample is digested using hot 70% HClO<sub>4</sub> and concentrated HNO<sub>3</sub>. Digestion time = 2 hours.
3. Sample volume is adjusted to 25 mls. using demineralized water. Sample solutions are homogenized and allowed to settle before being analyzed by atomic absorption procedures.
4. Detection limits using Techtron A.A.5 atomic absorption unit. Copper - 1 ppm, \*Lead - 2 ppm, Zinc - 1 ppm, \*Silver - 0.2 ppm, Chromium - 2 ppm. (\* Pb & Ag are corrected for background absorption)
5. Elements present in concentrations below the detection limits are reported as one half the detection limit, ie. Ag - 0.1 ppm

U:

1.0 gms sample is digested with HClO<sub>4</sub> - HNO<sub>3</sub> acid for approximately 2 hours. An aliquot extracted with MIBK after the addition of Al(NO<sub>3</sub>)<sub>3</sub> - TPAN solution and analyzed via conventional fluorometric procedure.  
Detection Limit: 0.5 ppm U.

Au:

5 gm samples ashed @800°C for one hour, digested with aqua regia to dryness - taken up in 25% HCl<sup>-</sup>, the gold then extracted as the bromide complex into MIBK and analyzed via A.A.  
Detection limit - 10 PPB

Ba:

A 0.20 gm sample is digested with a mixture of HF-HClO<sub>4</sub> - HNO<sub>3</sub> acids to dryness. The baked residue is leached with 25 ml of 10% HCl with NaCl added to reduce ionization effects in the A.A. flame. Analysis is by AAS using a N<sub>2</sub>O - C<sub>2</sub>H<sub>2</sub> gas mixture.