

ARCHER, CATHRO

AND ASSOCIATES LTD.

CONSULTING GEOLOGICAL ENGINEERS

Box 4127, WHITEHORSE, Y.T. Y1A 3S9 667-4415

STANDARD BUILDING, VANCOUVER, B.C. 688-2568

1016 STANDARD BUILDING
510 WEST HASTINGS STREET
VANCOUVER, B.C.
V6B 1L8

REPORT ON
GEOLOGICAL AND GEOCHEMICAL SURVEYS

CONDUCTED JULY 6-14, 1979

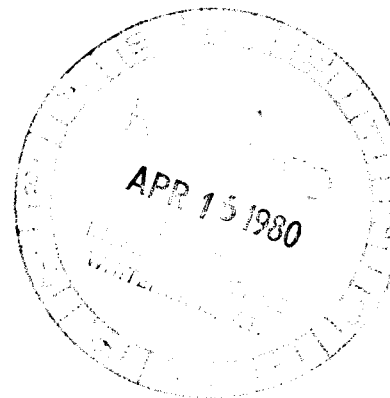
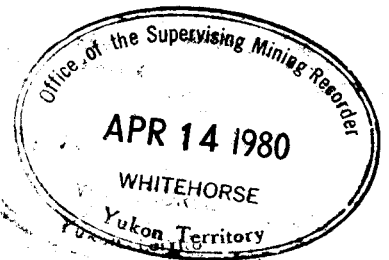
FIRST 9-16 CLAIMS - YA44385-YA44392

WATSON LAKE MINING DISTRICT
CLAIM SHEET 105F/10 AND 105F/11

Latitude 61°33'N

Longitude 133°00'W

J.G. ABBOTT, P.Eng.



090547

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

\$ 1,200.00

J. A. Mann

Resident Geologist or
Mining Engineer

Considered as representation work under
Section 52 (4) Yukon Quartz Mining Act.

B. R. BAXTER
Supervising Mining Recorder

Commissioner of Yukon Territory

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SUMMARY AND RECOMMENDATIONS

The First 9-16 claim group is located within the Pelly Mountains in central Yukon. It was staked by CUB Joint Venture (Cassiar Asbestos Corporation Ltd., Highland Crow Resources Ltd., and Union Carbide Canada Ltd.) to cover a tungsten anomaly from the G.S.C.'s Uranium Reconnaissance Program.

The claims are underlain by lower Cambrian limestone and pelitic schist and Cretaceous quartz monzonite. No surface showings were found and grid soil sampling failed to reveal any geochemical anomalies. No further work is planned.

INTRODUCTION

The First 9-16 claim group was staked in June, 1979 by CUB Joint Venture to cover an anomalous silt sample of 55 ppm W from the G.S.C's Uranium Reconnaissance Program.

The claims were grid soil sampled and mapped by A. Halleran and N. Peck on July 6, 7 and 10, 1979. The program was supervised by Grant Abbott of Archer, Cathro and Associates Ltd.

PROPERTY, LOCATION AND ACCESS

The property consists of eight contiguous claims recorded in the name of Archer, Cathro and Associates Ltd. at the Watson Lake Mining Recorder's office as follows:

ARCHER, CATRO & ASSOCIATES LTD.

FIG. 1

LOCATION MAP FIRST 9-16 CLAIMS CUB JOINT VENTURE

LEGEND

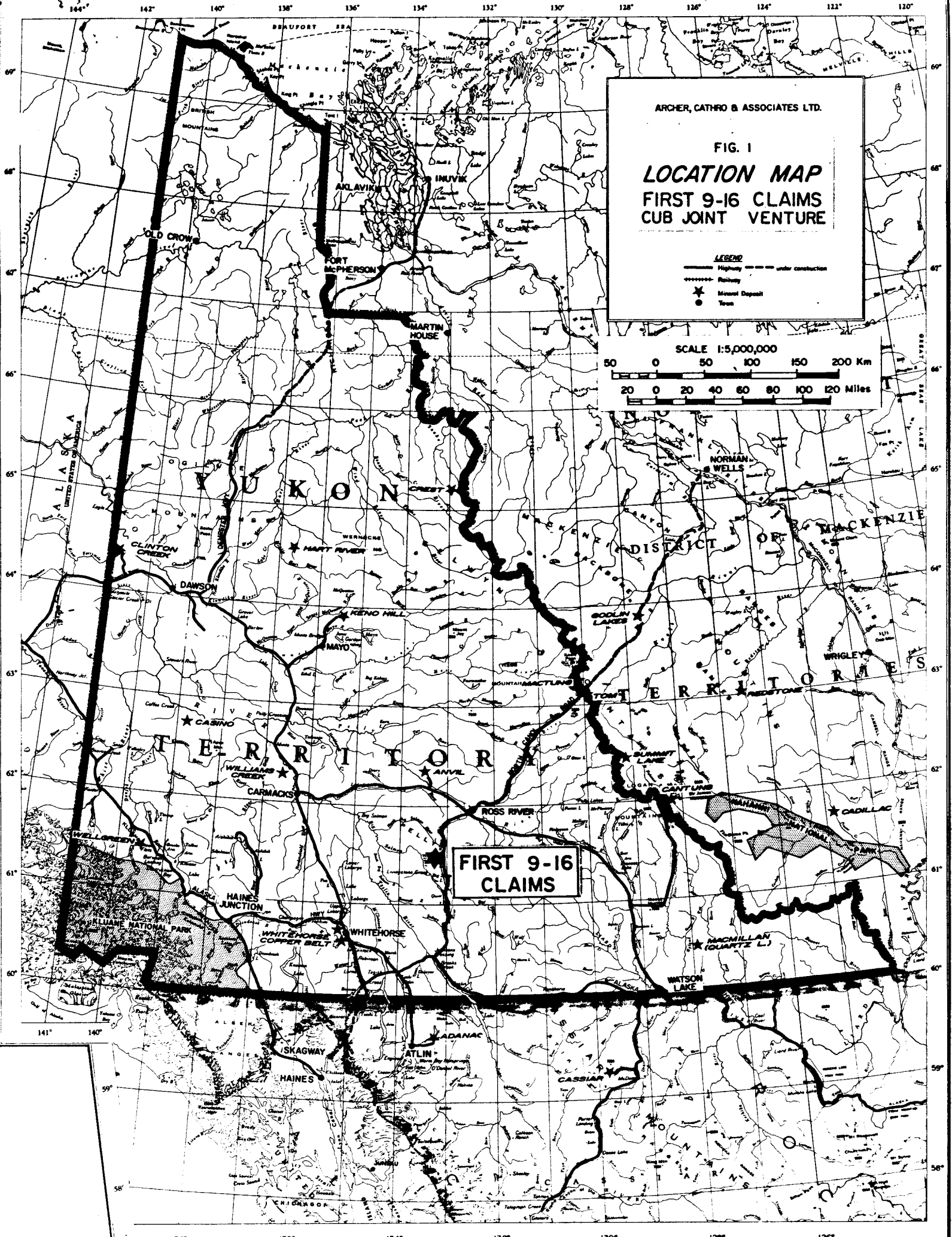
- Highway
- under construction
- Railway
- Mineral Deposit
- Town

SCALE 1:5,000,000

50 0 50 100 150 200 Km

20 0 20 40 60 80 100 120 Miles

**FIRST 9-16
CLAIMS**



<u>Claim Name</u>	<u>Grant Numbers</u>	<u>Expiry Date</u>
First 9-16	YA44385-YA44392	27 June/80

The First 9-16 claims are located on a tributary of Sheep Creek at 61°33'N, 133°00'W, 150 km NE of Whitehorse and 5 km east of the Canal Road (see Figure 1). Access in 1979 was by helicopter from a base camp located 10 km to the south at Rose River Bridge No. 2 on the Canal Road.

FIELD AND ANALYTICAL PROCEDURES

Both base lines and sampling lines were located by using compass and topofil without slope corrections. Stations were marked with ½ m lath pickets, above timberline, and flagging below timberline.

Soil samples were collected in kraft envelopes and were shipped to Chemex Labs Ltd., North Vancouver, B.C. for routine geochemical analysis. All samples were analyzed for tungsten with a colorimetric determination after fusing with potassium bisulfate, leaching with concentrated HCl, extracting into an amyl acetate solution containing dithiotoluene, and reducing interfering elements with stannous fluoride in a hot water bath. Samples were also analyzed for lead and zinc using atomic absorption spectrometry of a nitric-perchloric digestion.

GEOMORPHOLOGY

The property lies within the rugged Pelly Mountains, where peaks commonly exceed 2,000 m elevation and relief 700 m. The claims are situated below timberline at about 1600 m elevation, along the eastern flank of a tributary of Upper Sheep Creek. Outcrop is scarce and a thin layer of talus and locally derived overburden covers most of the property.

GEOLOGY

The geology of the First 9-16 claims is plotted on Figure 2 at a scale of 1:5,000. The property was staked to cover the contact between lower Cambrian limestone and Cretaceous granite. The limestone (unit 16c) is massive, grey weathering, silty unit of uncertain thickness that occurs within light brown weathering biotite muscovite schist of unit 16s. On a regional scale, the same unit encloses lower Cambrian limestone that reaches thickness of 1,000 m or more. The metasediments dip gently to the north. Medium-grained, granodiorite or quartz muscovite of unit Kqm underlies the southwestern half of the property. Although the intrusive contact is not exposed on the property, it is sharp in nearby areas. The granitic rocks occur along the northern margin of the Nisutlin Batholith, a body more than 80 km long and 10 km wide.

Only minor barren, pale garnet diopside skarn was found near the granite limestone contact.

GEOCHEMISTRY

The geochemistry of the First 9-16 claims is plotted at a scale of 1:5,000 on Figure 2. A total of 95 soil samples were taken over the claims at 50 m intervals on lines spaced 200 m apart. The samples were analyzed for tungsten, lead and zinc and all returned background values.



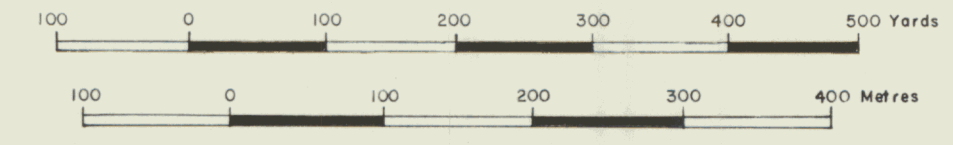
LEGEND

- QUATERNARY
 - Q Glacial Till
- CRETACEOUS
 - Kqm Medium grained quartz monzonite
- LOWER CAMBRIAN
 - ICc Grey weathering silty limestone
- LOWER CAMBRIAN and OLDER
 - PtCs Light brown weathering muscovite-biotite schist
- Probable geological contact
- Limit of outcrop and talus
- 10,50,500 PPM W,Pb,Zn
- URP Uranium Reconnaissance Program

FIGURE 2
ARCHER, CATHRO & ASSOCIATES

GEOLOGY & GEOCHEMISTRY
FIRST CLAIMS 9-16
CUB JOINT VENTURE

SCALE 1:5,000



CONCLUSIONS

The tungsten silt anomaly obtained by the Uranium Reconnaissance Program remains unexplained. However, because soil samples were not anomalous and no mineralization was found on the First 9-16 claims, it is unlikely that they are underlain by a significant tungsten deposit.

Respectfully submitted,

ARCHER, CATHRO AND ASSOCIATES LTD.

A handwritten signature in cursive script, reading "J. Grant Abbott". The signature is written in dark ink and is positioned below the typed name of the company.

/mc

J. Grant Abbott, P. Eng.

ARCHER, CATHRO
AND ASSOCIATES LTD.
CONSULTING GEOLOGICAL ENGINEERS

Box 4127, Whitehorse, Y.T. Y1A 3S9 667-4415

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VANCOUVER, B.C.
V6B 1L8

AFFIDAVIT

I, Joan Mariacher, of Vancouver, B.C. make oath and say:

That to the best of my knowledge the attached Statement of Expenditures for exploration work on the List 9-16 mineral claims on Claim Sheet 105 F/11 is accurate.



Joan Mariacher

Sworn before me at Vancouver, B.C.
this 27th day of
March, 1980.



Notary, Yukon Territory

Statement of Expenditures
First 9-16 Claims
March 14, 1980

Management

Archer, Cathro \$ 100.00

Labour

A. Halleran (geologist) - July 6, 7, 14 - 3 days
at \$66/day \$198.00

N. Peck (prospector) - July 6, 7, 14 - 3 days at
\$63/day 189.00

387.00

Expenses

Field expenses, room and board, 6 mandays at \$30/day \$180.00

Hughes 500C helicopter - 1.3 hours at \$275/hour,
plus \$40/hour fuel 409.50

Geochemical analysis - 95 samples at \$4.28 per sample 406.60

996.10

\$1,483.10

In Account With
Cub Joint Venture

31 July, 1979

A/

Management

July, 1979 (#1500 Project; #1000 Regional) --- \$ 2500.

Labour

A. Field Crew

Sandy Main - July 1-31 @ \$2200	\$ 2200.00
G. Abbott - July 1-31 @ \$2200	\$ 2200.00
C. Main - July 1-27 @ \$1600	\$ 1394.00
A. Halloran - July 1-22 @ \$1100	781.00
N. Pack - July 1-31 @ \$1050	1050.00
A. Reid - July 1-31 @ \$1000	1000.00
M. Ward-Hall - July 1-31 @ \$975	975.00
M. Payne - July 1-31 @ \$875	875.00
T. Brenner - July 7-26 @ \$2000	1290.00
B. Halloran - July 1-31 @ \$850	850.00
I. Talbot - July 3-20, 24-31 @ \$450	797.00
R. Rodgers - July 1-31 @ \$1250	1250.00
	<u>14,662</u>
	plus 50% --- \$ 7,331

B - Counsel

J. Sheppard - 10 day @ \$60/day --- \$ 600.

Expenses

Rental 2 SBX 11 radios and 1 SBX 10 radio July	\$ 550.00	DI
expediting (700 projects, 350 regional)	1050.00	D3
Accounting (250 " 100 ")	350.00	C3
Food Fair charged to USV in June	19.46	DV
Rental AC magnetometer, July	150.00	DI
room and board in Wks (S. Main 11 day; Abbott 6; C. Main 2; A. Halloran 2; Brenner 7; Talbot 4; Rodgers 4; Sheppard 7) total 43 days @ \$30	1290.00	DV
field equipment from AC stores	308.81	DI
Rental red Ford van July 1-31 @ \$700/mo plus (27,812 - 26,162) 1650 mi @ \$.25	1112.50	D4
Ink reprinting, 515.4 feet @ .130	154.62	C1
patry coal - 1.55 + 3.15 + 61.39 + 22.25 + 32.40	120.74	DI
H. Kreyer, food bars	10.50	DV
Cabin rental, Squawag Lake	100.00	DV
Receiv. General, file Obvious 25-32	80.00	F1
Bird's Salmon	27.50	DV
Butcher Block	35.02	DV
telephone - - 2.067	2.06	CV
Xerox copies, 382 @ .25	95.50	C1
Whitcomb Assoc	1.00	DI
Vaness Reyno	23.30	C1
Whithorn Stationary	20.56	CV
Peoples Drug Mart	10.44	DI
B & K Electric	13.12	DI
drafting, 46 hrs @ \$16	736.00	C1
	<u>6261.</u>	

\$ 31,354.1

Credit

Camp equipment paid twice in error	63,22	DI
advance to Arden, Catho on July 30	25,000.00	
	<u>25,063</u>	
	\$ 6,290.	

**T
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TRANS NORTH TURBO AIR LTD.
BOX 4338, WHITEHORSE, YUKON Y1A 3T8

TELEPHONE (403)668-2177 • TELEX 036-8-290

ARCHER PATRICK AND ASSOCIATES LIMITED
CHARTERER

BILLING ADDRESS

FUEL & OIL-X	TNTA FUEL USED	HRS.-GALS.	FROM
TNTA	<input checked="" type="checkbox"/> CUST.		

ACCOUNT NUMBER	1117
36645	
INVOICE DATE	18 07 79
A/C TYPE	H-369C
AIRCRAFT REGISTRATION C	G X V W
FLIGHT DATE	07 07 79
PURCHASE ORDER NO.	
CUB PROJECT	

FROM	MILES	HOURS	ZONE	REMARKS - NO. OF PASS - FREIGHT LBS.
ROSE RIVER No 2				
HIDDEN PROPERTY		0.8		CUB PROJECT
OBVIOUS PROPERTY		2.9		A.C., A. HALLERN,
DRILL SITE NO 6		0.4		PECK, WARD HALL,
		0.9		PAYNE, B. HALLERN,
*O.C.S. TO ROSS RIVER		0.5		MAIN, ROGERS,
				RIED, TALBOT
				AMITY, OBERING,
				DONNELLY

SUB	G.L.	AMOUNT
622	5020	1375.00

5.5 @	275.00	1375.00
5.0 @		
@		
@		

TERMS: EIGHTEEN PERCENT INTEREST PER ANNUM WILL BE CHARGED ON ALL INVOICES NOT PAID WITHIN 30 DAYS OF DATE ISSUED.

WAITING TIME	@	/HR.
FUEL:	@	/GAL.
FUEL:	@	/GAL.
MEALS & LODGING		
OTHER		
OTHER		

Charles A. Main
CHARTERER'S SIGNATURE

R. Batty
PILOT'S SIGNATURE

P. ENGEL
ENGINEER'S NAME

TOTAL \$ 1375.00

**FLIGHT REPORT
INVOICE**



TRANS NORTH TURBO AIR LTD.
BOX 4338, WHITEHORSE, YUKON Y1A 3T8

TELEPHONE (403)668-2177 • TELEX 036-8-290

ACCOUNT NUMBER	117
36644	
INVOICE DATE	118 07 79
A/C TYPE	AIRCRAFT REGISTRATION C
H-324C	6XVW
FLIGHT DATE	DAY MONTH YEAR
06	07 79
PURCHASE ORDER NO.	
CUB PROJECT	

ARCHER CATRO AND ASSOCIATES LTD.
CHARTERER

BILLING ADDRESS

FUEL & OIL-X	TNTA FUEL USED	HRS.-GALS.	FROM
TNTA CUST.	<input checked="" type="checkbox"/>		

FROM	MILES	HOURS	ZONE	REMARKS - NO. OF PASS - FREIGHT LBS.
ROSE RIVER NO 2				
HIDDEN PROPERTY		1.0		C.U.B. PROJECT
MINE DRILL		0.3		A.C., ROGERS,
COMPONENTS AND		1.5		WARD HALL, PAYNE,
EQUIPMENT FROM		0.7		RIED, B. HALLERN
SITE NOW TO CANCEL		4.3		TALBOT, PECK
ROAD		3.2		A. HALLERN
UPPER SHEEP CREEK				
				AMITY: LANGLURE,
				CHAMBERLAN
				DWINNELL, MIERING

SUB	G.L.	AMOUNT
62	25020	3025 00

11.0	@ 275.00	3025 00
	@	
	@	
	@	

TERMS: EIGHTEEN PERCENT INTEREST PER ANNUM WILL BE CHARGED ON ALL INVOICES NOT PAID WITHIN 30 DAYS OF DATE ISSUED.

WAITING TIME	@	/HR.	
FUEL:	@	/GAL.	
FUEL:	@	/GAL.	
MEALS & LODGING			
OTHER			
OTHER			

Charles A. Main
CHARTERER'S SIGNATURE

R. Batty
PILOT'S SIGNATURE

PETER ENGEL
ENGINEER'S NAME

TOTAL \$ 3025 00

FLIGHT REPORT
INVOICE

N
T

TRANS NORTH TURBO AIR LTD.
BOX 4336, WHITEHORSE, YUKON Y1A 3T6

TELEPHONE (403)668-2177 • TELEX 036-B-290

ARCHER CATIRO AND ASSOCIATES LIMITED
CHARTERER

BILLING ADDRESS

ACCOUNT NUMBER	117
36652	
INVOICE DATE	11810779
A/C TYPE	H-369C
AIRCRAFT REGISTRATION C	GX VW
FLIGHT DATE	140779
PURCHASE ORDER NO.	
CUB PROJECT	

FUEL & OIL-X	TNTA FUEL USED	HRS.-GALS.	FROM
TNTA	CUST.		

FROM	MILES	HOURS	ZONE	REMARKS - NO. OF PASS - FREIGHT -LBS.
TO ROSE RIVER No 2				
HIDDEN PROPERTY		0.3		C.U.B. PROJECT
1ST CLAIMS 6-14		0.3		ROGERS, PECK,
		1.2		WARD-HALL,
				A HALLERN.

SUB	S.L.	AMOUNT
6212	5012 0	495 00

1.8	@	275.00	495 00
	@		
	@		
	@		

TERMS: EIGHTEEN PERCENT INTEREST PER ANNUM WILL BE CHARGED ON ALL INVOICES NOT PAID WITHIN 30 DAYS OF DATE ISSUED.

WAITING TIME	@	/HR.
FUEL:	@	/GAL.
FUEL:	@	/GAL.
MEALS & LODGING		
OTHER		
OTHER		

Charles A. Ullin
CHARTERER'S SIGNATURE

R. Batty
PILOT'S SIGNATURE

ENGINEER'S NAME

TOTAL \$ 495.00

FLIGHT REPORT INVOICE



INVOICE

CHEMEX LABS LTD.

212 BROOKSBANK AVE.
NORTH VANCOUVER, B.C.
CANADA V7J 2C1
TELEPHONE: 984-0221
AREA CODE: 604
TELEX: 043-52597

•ANALYTICAL CHEMISTS •GEOCHEMISTS • REGISTERED ASSAYERS

TO: Archer Cathro & Assoc. Ltd.
Box 4127
Whitehorse, Y.T.
Y1A 3S7
ATTN: PROJECT: CUB-REGIONAL

CERTIFICATE NO. 48701 - 47808
INVOICE NO. 31259
DATE July 23, 1979

	DESCRIPTION	SUB-TOTAL	TOTAL
239	Analyzed for W @ \$2.75	\$657.25	
239	Prepared @ \$0.45	107.55	
		764.80	
	Less 20%	-152.96	
			\$611.84

TERMS-NET 30 DAYS

78-040

1%% Per Month (18% Per Annum) Charged on Overdue Accounts



INVOICE

CHEMEX LABS LTD.

212 BROOKSBANK AVE.
NORTH VANCOUVER, B.C.
CANADA V7J 2C1
TELEPHONE: 984-0221
AREA CODE: 604
TELEX: 043-52597

• ANALYTICAL CHEMISTS • GEOCHEMISTS • REGISTERED ASSAYERS

TO: Archer Cathro & Assoc. Ltd.,
Box 4127
Whitehorse, Y.T.
Y1A 3S9

CERTIFICATE NO. 48280-48281

INVOICE NO. 31159

ATTN:

PROJECT: CUB - REGIONAL

DATE July 18/79

	DESCRIPTION	SUB-TOTAL	TOTAL
34	Analyzed for Pb, Zn & W @ \$4.90	\$166.60	
29	Analyzed for W @ \$2.75	79.75	
63	Prepared @ \$0.45	28.35	
		274.70	
	Less 20%	54.94	
			\$219.76

TERMS—NET 30 DAYS

78-040

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



INVOICE

CHEMEX LABS LTD.

212 BROOKSBANK AVE.
NORTH VANCOUVER, B.C.
CANADA V7J 2C1
TELEPHONE: [REDACTED]
AREA CODE: 604
TELEX: 043-52597

984-0221

• ANALYTICAL CHEMISTS • GEOCHEMISTS • REGISTERED ASSAYERS

TO: Archer Cathro & Assoc. Ltd.,
Box 4127
Whitehorse, Y.T.
Y1A 3S9
ATTN: CUB-REGIONAL

CERTIFICATE NO. 48704
INVOICE NO. 31422
DATE July 30/79

	DESCRIPTION	SUB-TOTAL	TOTAL
40	Analyzed for W @ \$2.75	\$110.00	
40	Prep. charge (soils) @ \$0.45	18.00	
	Less 20%	128.00 -25.60	
			\$102.40

TERMS-NET 30 DAYS

78-040

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



INVOICE

CHEMEX LABS LTD.

212 BROOKSBANK AVE.
NORTH VANCOUVER, B.C.
CANADA V7J 2C1
TELEPHONE: 985-0648
AREA CODE: 604 984-0221
TELEX: 043-52597

• ANALYTICAL CHEMISTS • GEOCHEMISTS • REGISTERED ASSAYERS

TO: Archer Cathro & Assoc. Ltd.,
Box 4127
Whitehorse, Y.T.
Y1A 3S9
ATTN: CUB - Regional

CERTIFICATE NO. 49140-41

INVOICE NO. 31670

DATE Aug. 7/79

	DESCRIPTION	SUB-TOTAL	TOTAL
43	Analyzed for Pb, Zn & W @ \$4.90	\$210.70	
37	Analyzed for W @ \$2.75	101.75	
80	Prepared @ \$0.45	36.00	
		348.45	
	Less 20%	69.69	
			\$278.76

TERMS—NET 30 DAYS

78-040

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