

ARCHER, CATHRO

& ASSOCIATES LIMITED

CONSULTING GEOLOGICAL ENGINEERS

VANCOUVER, B.C. (604) 688-2568

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



REPORT ON

GEOPHYSICAL, GEOCHEMICAL AND GEOLOGICAL SURVEYS

CONDUCTED JUNE 27 TO JULY 27, 1981

FOR

CUB JOINT VENTURE



CREAM 9-52 CLAIMS

(YA65883-YA65926)

WATSON LAKE MINING DISTRICT

YUKON TERRITORY

CLAIM SHEET 95E/6

MARCH, 1982

Latitude 61°23'N

Longitude 127°13'W

C.A. Main, B.Sc.

R.J. Cathro, B.A.Sc., P.Eng.

091020

This report has been examined by
the Geological Evaluation Unit
under Section 53 (4) Yukon Quartz
Mining Act and is allowed as
representation work in the amount
of \$ 7,525-.

P. W. Watson

for Regional Manager, Exploration and
Geological Services for Commissioner
of Yukon Territory.



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.)



OFFICE DATE STAMP

I (Name) M.P. PHILLIPS	Occupation GEOLOGIST
(Postal Address) P.O. BOX 4127, WHITEHORSE, YUKON	

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)

CREAM 37-52; YA 65911-926

situated at MT. DOOSHKA Claim Sheet No. 95E/6

in the WATSON LAKE Mining District, to the value of at least \$2800.00

dollars, since the 25 day of JUNE 19 81

to represent the following mineral claims under the authority of Grouping Certificate No. 3184

(Here list claims to be renewed in numerical order, by grant number and claim name, showing renewal period requested).

GROUP 1 * CREAM 37-52; YA 65911-926 - 1 3/4 YRS EACH = 28 CLAIM YEARS

* TO COMMON DATE 25 MARCH.

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 REPORT ON GEOPHYSICAL GEOCHEMICAL AND GEOLOGICAL SURVEYS, FOR COB JOINT VENTURE, CREAM CLAIMS, NTS 95E/6 BY C.A. MAIN AND R.J. CATHRO, P.ENG. MARCH, 1982

TOTAL EXPENDITURES	\$8,731.25
LESS GROUP 1	<u>2,800.00</u>
BALANCE GROUP 1	\$5,931.25

Sworn before me at WHITEHORSE, YUKON

this 27 day of APRIL 1982

Alan Baker
Notary Public

M.P. Phillips
Applicant.
M.P. PHILLIPS

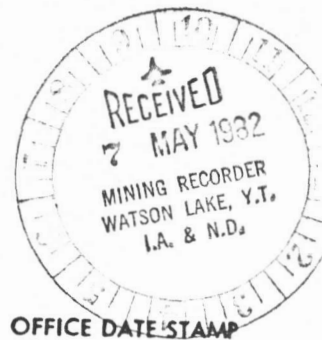
091020



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) M.P. PHILLIPS	Occupation GEOLOGIST
(Postal Address) P.O. BOX 4127, WHITE HORSE, YUKON	

MAKE OATH AND SAY, THAT:-

- I am the owner, or agent of the owner, of the mineral claim(s) to which reference is made herein.
- 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)
CREAM 21-36; YA 65895-910

situated at MT DOOSHKA AREA Claim Sheet No. 95E/6
in the WATSON LAKE Mining District, to the value of at least \$2800.00
dollars, since the 25 day of JUNE 1981

to represent the following mineral claims under the authority of Grouping Certificate No. 3186
(Here list claims to be renewed in numerical order, by grant number and claim name, showing renewal period requested).
GROUP 2 * CREAM 21-36, YA 65895 - 910 1 3/4 YRS EACH = 28 CLAIM YEARS
* TO COMMON DATE 25 MARCH.

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 REPORT ON GEOPHYSICAL, GEOCHEMICAL AND GEOLOGICAL SURVEYS FOR CUB JOINT VENTURE, CREAM CLAIMS, NTS 95E/6 BY C.A. MAIN AND R.J. CATHED, P. ENG., MARCH, 1982

BALANCE GROUP 1	\$ 5,931.25
LESS GROUP 2	2,800.00
BALANCE GROUP 2	\$ 3,131.25

Sworn before me at WHITE HORSE, YUKON
this 27 day of APRIL 1982

[Signature]
Notary Public

[Signature]
Applicant
M.P. PHILLIPS



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.)



OFFICE DATE STAMP

I (Name) M.P. PHILLIPS	Occupation GEOL
(Postal Address) P.O. BOX 4127, WHITEHORSE, YUKON	

MAKE OATH AND SAY, THAT:-

- I am the owner, or agent of the owner, of the mineral claim(s) to which reference is made herein.
- 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)
CREAM 9-20; YA 65883-894

situated at MT DOOSHKA AREA Claim Sheet No. 95E/6

in the WATSON LAKE Mining District, to the value of at least \$2100.00

dollars, since the 25 day of JUNE 19 81

to represent the following mineral claims under the authority of Grouping Certificate No. 3187
(Here list claims to be renewed in numerical order, by grant number and claim name, showing renewal period requested).

GROUP 3 * CREAM 9-20; YA 65883-894 - 13 1/4 YRS EACH = 21 CLAIM YEARS

* TO COMMON DATE 25 MARCH

- 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 REPORT ON GEOPHYSICAL, GEOCHEMICAL AND GEOLOGICAL SURVEYS FOR CUB JOINT VENTURE, CREAM CLAIMS, NTS 95E/6 BY C.A. MAIN AND R.J. CATHRO, P.ENG., MARCH, 1982.

BALANCE GROUP 2	\$3,131.25
LESS GROUP 3	2,100.00
BALANCE GROUP 3	\$ 1,031.25

Sworn before me at WHITEHORSE, YUKON

this 27 day of APRIL 1982

[Signature]
Notary Public

[Signature]
Applicant
M.P. PHILLIPS

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SUMMARY AND RECOMMENDATIONS

The Cream claim group is located within the MacKenzie Mountains of eastern Yukon. It was staked by CUB Joint Venture to cover tungsten skarns that occur at the contact between lower Cambrian limestones and Cretaceous (or Tertiary) intrusive rocks. The skarn occurrences were found to be well exposed and poorly mineralized. Geochemical and magnetic surveys were weakly anomalous. No further work is warranted under present economic conditions on the claim group although there may be further potential on the adjacent ground to the south.

INTRODUCTION

Scheelite-bearing skarn float was discovered in 1980 by CUB Joint Venture (Brinco Mining Ltd., formerly Cassiar Asbestos Corporation Ltd.; Highland Crow Resources Ltd., an affiliate of Teck Corporation Ltd.; and Union Carbide Canada Ltd. [UCEX]) while investigating panning anomalies in upper Cream Creek near the contact of the North Coal batholith. Several soil panning samples near the contact had anomalous scheelite content and were staked as Cream 1-8 claims. Prospecting nearby located a skarn developed along the contact of a small previously unmapped intrusion called the Cream stock, which appeared to be in contact with a thick limestone unit.

The 1981 program was mainly designed to evaluate the potential of the Jox stock. An additional 44 Cream claims were staked and a grid was established to cover the projected contact between the Jox stock and the limestone unit.

The program included soil geochemistry, ground magnetic surveys, prospecting and mapping. The 1981 geophysical work was performed by contractor W.A. Barclay Exploration Services Ltd. The program was managed by C.A. Main of Archer, Cathro & Associates (1981) Limited.

HISTORY

The Iso showing, situated on the east side of the Coal River valley (see Figure 1, on following page), consists of a high-grade lens of scheelite-bearing skarn that was discovered in 1969 and drilled in 1971 by Canex Placer, under option from Iso Mines Ltd., with disappointing results. Subsequent regional panning samples collected by UCEX in this area (see Figure 3, in pocket) contained modestly anomalous grain counts of 28 grains scheelite from Cream Creek, situated 5 km to the northwest of the Iso showing, and 18 grains from Iso Cream Creek, below the Iso showing. A follow-up traverse on Cream Creek by UCEX in 1974 discovered several tributaries with panning values of up to 50 grains each.

PROPERTY, LOCATION AND ACCESS

The property consists of 44 contiguous claims recorded in the name of Archer, Cathro & Associates (1981) Limited at the Watson Lake Mining Recorder's office as follows:

<u>Claims</u>	<u>No.</u>	<u>Mining District</u>	<u>Claim Sheet</u>	<u>Tag Numbers</u>	<u>Expiry Date</u>
Cream 9-52	<u>44</u>	Watson Lake	95E/6	YA65883-YA65926	25 June/82
Total	<u>44</u>				

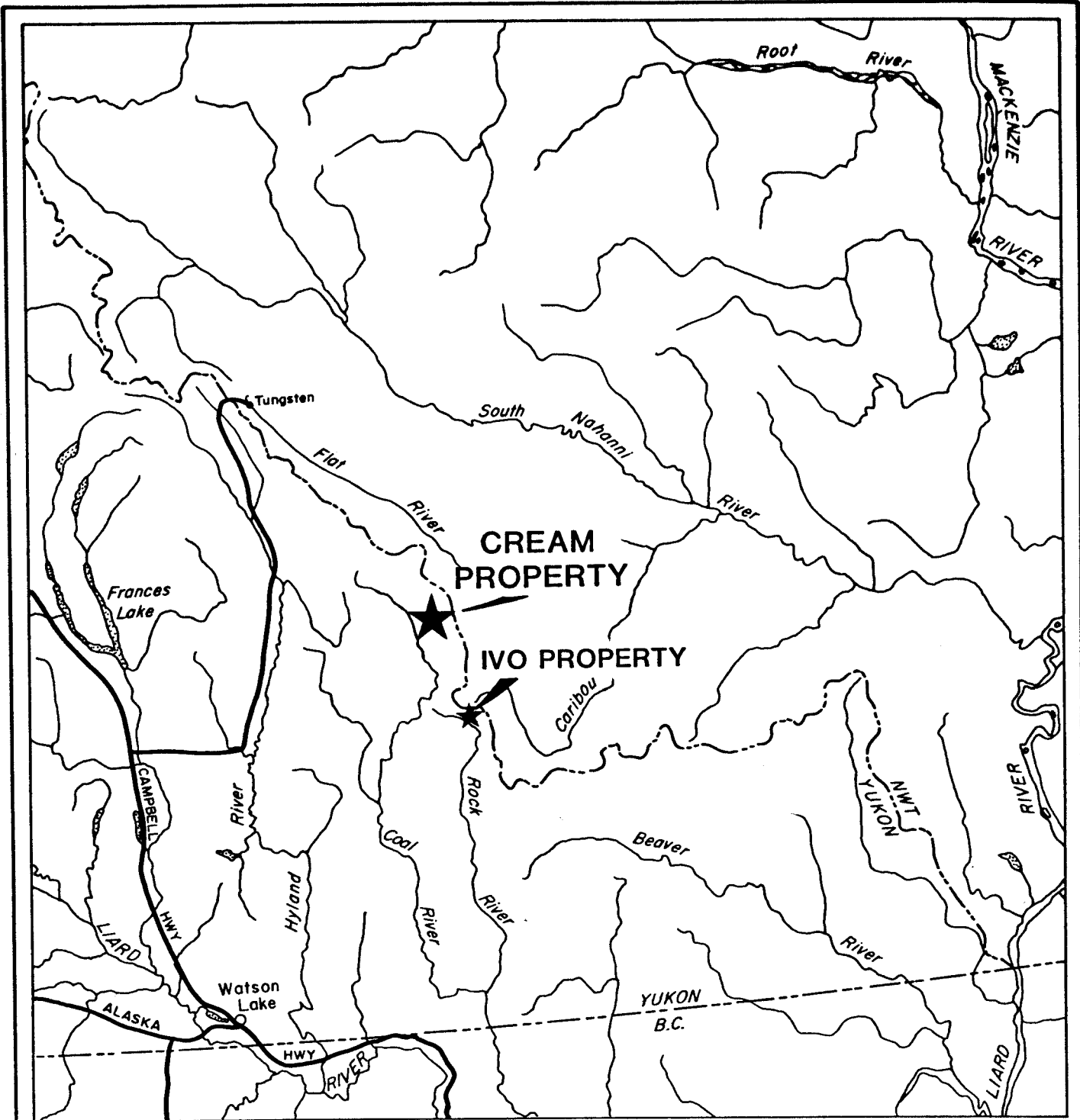


Figure 1

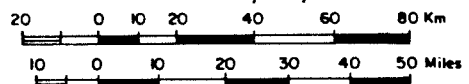
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

CREAM PROPERTY

COAL RIVER DISTRICT

CUB JOINT VENTURE

SCALE - 1:2,000,000



To accompany report dated March, 1982

The Cream area is situated at 61°23'N latitude and 127°13'W longitude near the headwaters of the Coal River, 80 km south-southeast of Tungsten and 55 km east of the Nahanni Range Road. Access in 1981 was by helicopter from a base camp on the Ivo property 33 km to the south.

FIELD AND ANALYTICAL PROCEDURES

Due to the reconnaissance nature of this investigation, sampling lines were roughly located using compass and hip chain. Sample intervals were slope corrected. Stations were marked with flagging.

Silt and soil panning samples were taken from non-organic clay or sandy material and a fresh sample was retained for geochemical analysis. Enough material to fill a 30 cm gold pan was then panned in the field down to 4 - 6 cc of heavy mineral concentrate, which was examined by UV lamp under a light-proof cape to determine the number of grains of fluorescing scheelite. The heavy mineral concentrates were retained on filter papers and stored in numbered kraft bags for future reference.

Soil and silt geochemical samples were collected in kraft envelopes and shipped to Chemex Labs Ltd., North Vancouver, B.C. for routine geochemical analysis. These soil and silt samples were pulverized like rock samples, since tungsten disperses in soil mainly as coarse clastic grains of scheelite.

All samples were analyzed for tungsten with a colorimetric determination after fusing with potassium bisulphate, 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 molybdenum using atomic absorption spectrometry of a nitric-perchloric digestion.

Magnetometer surveys used a Geometrics G816/826A nuclear precession field unit with a Canadian Mining Geophysics MR-10 computerized recorder coupled to a Barringer #6378 magnetometer as a base station. VLF-EM surveys were conducted with a Geonics EM-16 unit using station NLK (Seattle) for east-west traverses with stations NAA (Cutler) and NSS (Annapolis) for north-south traverses. Readings were taken every 12.5 m.

GEOMORPHOLOGY

The Cream area lies at the height of land between the headwaters of Coal River on the west, and Bensen Creek, a tributary of Flat River, on the east. To the north, relief is quite rugged with prominent peaks reaching elevations of up to 2200 m whereas relief is more subdued to the southeast. The claims are characterized by moderate relief with the bottom of U-shaped valleys at 1500 m and the adjacent ridges at 2000 m. Vegetation is very thick below the 1600 m elevation and glacial till occupies the sides of the wide Coal River valley, on the west, up to 1300 m elevation.

GEOLOGY

The Cream area lies on the western side of the Grizzly Anticline (see Figure 2, in pocket) and on the western (shale) side of the lower Cambrian continental facies boundary. Country rock shown on Table I (on following page) consists of Hadrynian Grit Unit clastics (H) and limestones (Hls) faulted against lower Cambrian and older(?) "Phyllite Unit" (CH). Rocks

TABLE I - GENERAL TABLE OF FORMATIONS

COAL RIVER DISTRICT

CRETACEOUS

Kq Quartz monzonite, granodiorite,; minor granite and diorite

ORDOVICIAN, SILURIAN AND LOWER DEVONIAN

OSDr ROAD RIVER FORMATION: black, pyritic shale, locally phyllitic; thin-bedded, black argillaceous limestone; pale olive-green, shaly limestone, grey and black chert; calcareous siltstone; black cherty dolomite; locally includes strata of middle Devonian to Carboniferous age

MIDDLE ORDOVICIAN

Os SUNBLOOD FORMATION: dark and light grey dolomite; pink, mottled limestone; platy impure limestone; siltstone; limestone
Osv Vesicular, mafic flow(s)
COR RABBITKETTLE FORMATION: brown weathering, wavy banded, silty limestone; platy impure limestone; siltstone; limestone

CAMBRIAN (?)

1Cs SEKWI FORMATION: undivided; massive, light pink and orange dolomite, light grey and brown limestone; 1Cshf: cherty calc-silicate rocks
1Csv Vesicular, green and maroon weathering volcanic rocks
1Cbrq BACKBONE RANGES FORMATION: resistant, thick bedded grey quartzite (1Cbrq), grey phyllite (CH), minor sandy limestone (1Cbrl), and pebble conglomerate
1Cbrd BACKBONE RANGES FORMATION: massive buff or pink weathering dolomite (1Cbrd), grey limestone (1Cbrl); local sandy to pebbly limestone and dolomite

CAMBRIAN AND (?) HADRYNIAN

Hv Vesicular and amygdaloidal, blocky, green, purple, volcanic flows and breccias; minor buff dolomite
CH "Phyllite Unit": phyllite, slate, fine-grained quartzite, siltstone, argillite

HADRYNIAN

H "Grit Unit": dark shale and slate, gritty quartzite, calcarenite, quartz-pebble conglomerate; sandstone; maroon, green and buff shale and slate; minor limestone and phyllite
Hls Massive, cryptocrystalline cream to grey limestone.

mapped as the "Phyllite Unit" contain phyllitic rocks belonging to the western facies of the Lower Cambrian Backbone Ranges Formation. Numerous thin limestone members in this unit also belong to the Backbone Ranges Formation (1Cbr1). To the east, carbonates are more common and the quartzites are interbedded with the phyllites.

The axis of the Grizzly Anticline, which roughly coincides with a lower Cambrian continental facies boundary, lies 8 km to the east. Most of the lower Cambrian section is represented by phyllites and micaceous quartzites with numerous thin interbeds of limestone. These rocks appear to be separated by a strong fault, tentatively called the Cream Fault, from coarse clastics that include at least one clean, cryptocrystalline limestone unit up to 1000 m thick similar to limestone to the south, near the Rock Stock, which has been mapped by the GSC as Hadrynian. The Cream fault is observed at one locality to the north of Cream Creek where it separates the "Grit Unit" on the west from the "Phyllite Unit" on the east.

Three small plutons, called the Cream, Bean and Jox stocks, each about 500 m wide and up to 2 km long, have been identified in the Cream Creek area. None of the three are shown on GSC map 1313A. They display several important differences from typical Cretaceous MacKenzie Mountains intrusions, such as the large North Coal batholith lying 5 km to the north:

(1) they are probably younger. A specimen from the Cream stock was dated by Doug Archibald at Queen's University for UCEX as 69.4 ± 1.2 my. These intrusions are shown on the geological legend (Figure 2, in pocket) as Tertiary(?) or Cretaceous (unit TKg?);

(2) they contain unusually high quantities of biotite, muscovite and tourmaline; are surrounded by wide aureoles with pervasive biotite alteration; and are cut by closely-spaced fracture systems containing pegmatitic quartz, tourmaline, muscovite and biotite;

(3) all three occur mainly in valley bottoms and low terrains, which suggests that they tend to erode recessively. Moreover, they have the same competency as the surrounding phyllites and cannot be easily distinguished from the air.

MINERALIZATION

Six tungsten showings are now known in the Cream area. Three occurrences, named the Iso #1, Iso #2 and Cream #1, occur along the contact of the North Coal Batholith. The other three, Cream #2 to #4, are developed adjacent to the smaller Cream, Bean and Jox stocks.

The Iso #1 showing crops out on a precipitous cliff. It was found by prospectors in 1969 and is the original discovery in this area. It was explored with 843 m of BQ core in 6 holes by Canex Placer in 1971. Dark pyrrhotite skarn with specimens reportedly grading well over 10% WO_3 is developed in thin lenses of Backbone Ranges limestone (lCbrl) within a phyllite embayment that is almost totally engulfed in the batholith. Drill holes situated 50 feet back from the cliff intersected weaker mineralization, with the best sections grading 0.85% WO_3 across 7 m (hole 4) and 0.6% across 3 m (hole 5). This prospect is difficult to assess but probably has little size potential.

The Iso #2 showing was also discovered in 1969 and was prospected and mapped by Canex in 1970. The geological setting is similar to that at Iso #1. The best skarn is developed in very thin lenses of limestone (lCbr1), totally engulfed in the batholith, where specimens grade up to 0.6% WO_3 . The showing occurs in precipitous terrain and is difficult to assess, but appears to have little potential.

The Cream #1 showing was found in 1980 by CUB personnel. It consists of several small chips of dark diopside skarn, visually estimated to grade up to 0.2% WO_3 , that occur along the overburden and scree-covered contact of the batholith. A line of soil samples along the probable position of the contact returned up to 35 ppm W and 300 grains of scheelite per pan. The Cream 1-8 claims were staked over this zone at the end of the 1980 season. Subsequent prospecting in 1981 failed to locate further mineralization and, although exposure is very poor, the potential for a sizable hidden deposit is remote.

The Cream #2 showing is a small occurrence of light-coloured garnet diopside skarn developed in thin (1-2 m) lenses of limestone at the margin of the Cream stock. One specimen of the float assayed up to 3.7% WO_3 but the average grade of specimens is visually estimated at only about 0.4% WO_3 . Exposure is excellent and there is little possibility of discovering other larger bodies.

The Cream #3 showing consists of occasional skarn float associated with thin limestone members within the "Phyllite Unit" at the margin of the Bean Stock. A selected specimen assayed 1.11% WO_3 . Exposure is good and it is unlikely that a large mineralized zone is present, although there could be potential to the east as discussed below under Geochemistry and Geophysics.

The Cream #4 showing is a zone of low-intensity, very low-grade garnet-diopside skarn developed adjacent to the Jox Stock. The exposure is not as good as at the Cream #2 or #3 but since none of the specimens visually grade better than 0.1% WO_3 , the showing has little potential.

GEOCHEMISTRY

In 1981, 265 soil samples were collected from the Cream grid. The results are plotted on Figure 3 (in pocket). The tungsten values form irregular anomalies ranging up to 38 ppm. The source of the anomalies is not obvious from the geology or geophysical response. The limited extent and magnitude of these anomalies possibly indicates a small or erratically distributed low-grade source. All regional and grid samples were also analyzed for molybdenum but no values exceeded 3 ppm Mo and they have not been plotted.

MAGNETIC SURVEY

The Cream survey consisted of 24.3 line-km of ground magnetics, as shown on Figures 4 and 5 (in pocket). No professional geophysical interpretation of this data has been made.

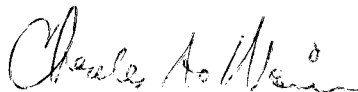
The geophysical data on the Cream grid seems to be divided into two terrains with different backgrounds: to the west, the Hadrynian(?) limestones have a flat relief; whereas the Paleozoic(?) phyllites (and limestones) to the east have a somewhat more variable response. An isolated anomaly occurs on line 2E (8N) in an overburden-covered area. Another anomalous

feature at the northeast corner of the property trends east from L12E to L6E at about 16N. This coincides with a weak geochemical anomaly of 10 to 12 ppm W. Float from the Cream #3 showing grading 1.11% WO₃ was found nearby, and the creek that drains east returned silt values of up to 15 ppm W and 150 grains scheelite. This anomalous area should be investigated.

CONCLUSION

Three small Cretaceous Tertiary(?) tourmaline and biotite-rich plutons of granite composition have been located along the west flank of the Coal River Tungsten Belt adjacent to the North Coal Batholith. They weather recessively and occur at low elevations, and do not show on GSC map 1313A.

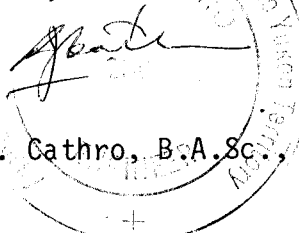
Six tungsten showings have been discovered in limy members of the lower Paleozoic country rocks at the margins of these plutons. A regional fault separates the intrusions from older (Hadrynian) limestone formations to the west. The contacts of the three plutons are sufficiently well exposed that a large deposit should have been discovered by conventional prospecting. No further work on this property is warranted at the present time with the present economic conditions.



C.A. Main, B.Sc.

Respectfully submitted,

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED,

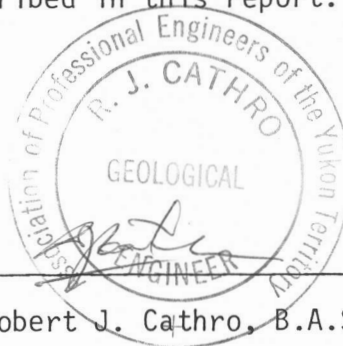


R.J. Cathro, B.A.Sc., P.Eng.

STATEMENT OF QUALIFICATIONS

I, Robert J. Cathro, with business addresses in Whitehorse, Yukon Territory and Vancouver, British Columbia, and residential address in West Vancouver, British Columbia, do hereby declare:

1. I am a 1959 graduate of the University of British Columbia in geological engineering.
2. I have been engaged in geological engineering for over twenty years, the past fifteen of which have been as a consultant.
3. I am a registered professional engineer in British Columbia and in Yukon Territory.
4. I have supervised the work described in this report.

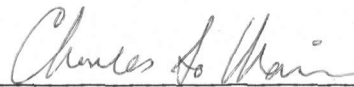


Robert J. Cathro, B.A.Sc., P.Eng.

STATEMENT OF QUALIFICATIONS

I, Charles A. Main, geologist, with business addresses in Whitehorse, Yukon Territory and Vancouver, British Columbia and residential address in Vancouver, British Columbia, hereby certify that:

1. I graduated from the University of British Columbia in 1971 with a B.Sc. majoring in Geological Sciences and Chemistry.
2. I have been actively engaged as a geologist in mineral exploration since 1971 and as a partner of Archer, Cathro & Associates (1981) Limited since June 1, 1981.
3. I have personally participated in or supervised the field work reported herein and have interpreted all data resulting from this work.



Charles A. Main, B.Sc.

ARCHER, CATHRO

& ASSOCIATES LIMITED

CONSULTING GEOLOGICAL ENGINEERS

VANCOUVER, B.C. (604) 688-2568

BOX 4127, WHITEHORSE, Y.T. Y1A 3S9 (403) 667-4415

1016 - 510 WEST HASTINGS STREET
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 Cream 9-52 mineral claims on Claim Sheet 95E/6 is accurate.

A handwritten signature in cursive script, appearing to read "Joan Mariacher".

Joan Mariacher

Sworn before me at Vancouver, B.C.

this 16th day of

March, 1982

A handwritten signature in cursive script, appearing to be the signature of a notary.

Notary, Yukon Territory

091020

Statement of Expenditures
 Cream 9-52 Claims
March 11, 1982

Labour

C. Main - June 27, July 27 - total 2 days @ \$230/day	\$ 460.00	
L. Grexton - June 27 - total 1 day @ \$160/day	160.00	
W. Penno - June 27, July 14, 25, 27 - total 4 days @ \$107/day	428.00	
H. McIsaac - June 27 - total 1 day @ \$80/day	80.00	
C. Shuttle - July 14 - total 1 day @ \$86/day	86.00	
D. Lister - July 14 - total 1 day @ \$86/day	86.00	
K. Opsetmoen - July 20 - total 1 day @ \$80/day	<u>80.00</u>	\$1,380.00

Expenses

Helicopter - 7.0 hours Bell 206C on contract from Shirley Helicopters @ \$367/hour	\$2,569.00	
Helicopter fuel - 7.0 hours @ 22 gal/hour = 154 gal @ \$6.50/gal on site	1,001.00	
Geophysical Survey - 24.3 line km (7.92% of 1981 total 22,755.56)	1,802.00	
Camp and Field Survey Costs - 11 days @ \$45/day - groceries, mapping, flagging, etc.	495.00	
Geochem Costs - 265 soil samples analyzed for W, Mo @ \$5.60 ea.	<u>1,484.00</u>	<u>7,351.00</u>
Total		<u>\$8,731.25</u>

In Account With

Project - **CUB JOINT VENTURE**
 Date -- **30 JUNE, 1981**

		Total
MANAGEMENT		
JUNE	A	2500.00
LABOUR		
Supervisory		
Field		
C. MAIN - JUNE 1-30	3000.00	
L. GREYTON - JUNE 1-30	2100.00	
K. KALBUN - JUNE 1-30	1800.00	
W. PENNO - JUNE 1-30	1700.00	
D. LISTER - JUNE 1-30	1350.00	
C. SHUTTLE - JUNE 1-30	1250.00	
F. SCHUERHECK - JUNE 8-30 AT 1350	1025.00	
H. MACISAAC - JUNE 1-30	1250.00	b
K. OPSETMOEN - JUNE 29-30 AT 1250	84.00	13669.00
	plus 10 %	A 6834.50
Casual		b 280.00
C. CHARLEM - JUNE 24-29 - 7 DAYS AT 140/DAY		
EXPENSES		
Accounting JUNE	400.00	C3
Expediting JUNE	900.00	b2
Room & Board in Whse		
	total days at \$ /day	
Field equipment from AC stock	31.50	D1
Xerox copies, 234 copies at .25/copy	58.50	C1
Radio rental SBX 100 AT 350/mo + SBX 11 AT 150/mo JUNE 1-30	500.00	D1
Rental AC truck	at \$ /mo.	
plus (to) kms at /km		
Petty cash 36.00 D1; 95.51; 73.55 D2; 160.00 F	275.50	D1-45.55 D2-73.55 F-160.
Telephone 5.00	5.00	C2
Blueprinting, 404 sq. ft. Ozalid at 30 c/ft. plus 25 sq. ft. Dilar at \$ 2.50 /ft.	183.70	C1
Drafting, 44 hrs at \$ 18 /hr.	792.00	C1
Homesite	12.00	D1
Receiver - General - major	1250	C2
Contract Services	15.92	C2
Misc	1.90	3192.53
	C2	
Total		26476.03



INVOICE

Hangar No. 6A, Municipal Airport
Edmonton, Alberta T5G 2Z3
Phone 453-5121

July 31, 1981

TO
Archer Cathro & Associates Ltd.,
1016 - 510 West Hastings St.,
Vancouver, B.C.
V6B 1L8

CUSTOMER'S ORDER NUMBER		HELICOPTERS	PAYABLE AT PAR EDMONTON	PILOT	CHARGES
		C-GBZL	Butcher		
		DESCRIPTION			
June 21, 1981	78948	1.9 hrs. @ \$365. per hr. Plus Oil @ \$2.00 perhr.	\$		693.50 3.80
June 22, 1981	78949	6.9 hrs. @ \$365. per hr. Plus Oil @ \$2.00 per hr.			2,518.50 13.80
June 23, 1981	78950	5.9 hrs. @ \$365. perhr. Plus Oil @ \$2.00 per hr.			2,153.50 11.80
June 24, 1981	78951	7.8 hrs. @ \$365. per hr. Plus Oil @ \$2.00 perhr.			2,847.00 15.60
June 25, 1981	78952	4.0 hrs. @ \$365. per hr. Plus Oil @ \$2.00 perhr.			1,460.00 8.00
June 26, 1981	78953	2.7 hrs. @ \$365. per hr. Plus Oil @ \$2.00 perhr.			985.50 5.40
June 27, 1981	78954	4.9 hrs. @ \$365. per hr. Plus Oil @ \$2.00 perhr.			1,788.50 9.80
June 28, 1981	78955	4.3 hrs. @ \$365. per hr. Plus Oil @ \$2.00 per hr.			1,569.50 8.60
June 29, 1981	78956	2.0 hs. @ \$365. per hr. Plus Oil @ \$2.00 per hr.			730.00 4.00
June 30, 1981	78957	4.9 hrs. @ \$365. per hr. Plus Oil @ \$2.00 per hr.			1,788.50 9.80
					<u>\$16,625.10</u>

B 3280



Shirley Air
Services Ltd.

INVOICE

Hangar No. 6A, Municipal Airport
Edmonton, Alberta T5G 2Z3
Phone 453 5121

July 31, 1981

TO

Archer Cathro & Associates Ltd.,
1016 - 510 West Hastings St.,
Vancouver, B.C.
V6B 1L8

CUSTOMER'S ORDER NUMBER

HELICOPTERS

PAYABLE AT PAR EDMONTON

PILOT

C-GBZL

Butcher

DESCRIPTION

CHARGES

July 11, 1981	78968	2.0 hrs. @ \$365. per hr.	\$ 730.00
		Plus Oil @ \$2.00 per hr.	4.00
July 12, 1981	78969	7.7 hrs. @ \$365. per hr.	2,810.50
		Plus Oil @ \$2.00 per hr.	15.40
July 13, 1981	78970	2.5 hrs. @ \$365. per hr.	912.50
		Plus Oil @ \$2.00 per hr.	5.00
July 14, 1981	78971	8.8 hrs. @ \$365. per hr.	3,212.00
		Plus Oil @ \$2.00 per hr.	17.60
July 15, 1981	78972	5.1 hrs. @ \$365. per hr.	1,861.50
		Plus Oil @ \$2.00 per hr.	10.20
July 16, 1981	78973	3.2 hrs. @ \$365. per hr.	1,168.00
		Plus Oil @ \$2.00 per hr.	6.40
July 17, 1981	78974	6.8 hrs. @ \$365. per hr.	2,482.00
		Plus Oil @ \$2.00 per hr.	13.60
July 18, 1981	78975	2.7 hrs. @ \$365. per hr.	985.50
		Plus Oil @ \$2.00 per hr.	5.40
July 19, 1981	78976	4.8 hrs. @ \$365. per hr.	1,752.00
		Plus Oil @ \$2.00 per hr.	9.60
July 20, 1981	78977	7.2 hrs. @ \$365. per hr.	2,628.00
		Plus Oil @ \$2.00 per hr.	14.40

\$18,643.60

B 3282

TERMS NET 30 DAYS — 2% PER MONTH CHARGED ON OVERDUE ACCOUNTS.



INVOICE

Hangar No. 6A, Municipal Airport
Edmonton, Alberta T5G 2Z3
Phone 453 5121

July 31, 1981

TO
Archer Cathro & Associates Ltd.,
1016 -510 West Hastings St.,
Vancouver, B.C.

CUSTOMER'S ORDER NUMBER		HELICOPTER		PAYABLE AT PAR EDMONTON	
		C	C-GBZL	Cars	PILOT
		DESCRIPTION		CHARGES	
July 21, 1981	78978	3.4 hrs. @ \$365. per hr.			\$ 1,241.00
		Plus Oil @ \$2.00 per hr.			6.80
July 22, 1981	78979	1.5 hrs. @ \$365. per hr.			547.50
		Plus Oil @ \$2.00 per hr.			3.00
July 23, 1981	78980	3.8 hrs. @ \$365. per hr.			1,387.00
		Plus Oil @ \$2.00 per hr.			7.60
July 24, 1981	78981	3.3 hrs. @ \$365. per hr.			1,204.50
		Plus Oil @ \$2.00 per hr.			6.60
July 25, 1981	78982	1.7 hrs. @ \$365. per hr.			620.50
		Plus Oil @ \$2.00 per hr.			3.40
July 26, 1981	78983	.6 hrs. @ \$365. per hr.			219.00
		Plus Oil @ \$2.00 per hr. m			1.20
July 27, 1981	78984	1.6 hrs. @ \$365. per hr.			584.00
		Plus Oil @ \$2.00 per hr.			3.20
July 28, 1981	78985	1.9 hrs. @ \$365. per hr.			693.50
		Plus Oil @ \$2.00 per hr.			3.80
July 29, 1981	78986	3.9 hrs. @ \$365. per hr.			1,423.50
		Plus Oil @ \$2.00 per hr.			7.80
					<u>\$7,963.90</u>

Just Aug 31/81 #1049 Detail 59674.20

B 3283

I N V O I C E

1981 02 27

Archer, Cathro & Associates Limited
1016 - 510 West Hastings Street
Vancouver, B. C. V6B 1L8

Re: Purchase of 100 drums of JP-4.

100 lined drums @ \$50.00 ea. (deposit) \$ 5,000.00

4,400 gal. JP-4 @ \$1.74 7,656.00

\$ 12,656.00

Please make cheque payable to:

Union Carbide Canada Limited
#930-800 West Pender St.
Vancouver, B. C.

V
am

60 mi

00
125



UNION CARBIDE CANADA LIMITED

PLEASE QUOTE WHEN REMITTING
Unacode No.
Invoice Date March 17, 1981
Invoice No. 2176

DUNS 20-177-4876

- Archer, Cathro & Associates Limited
1016 - 510 West Hastings Street
- Vancouver, B.C. V6B 1L8
-

Date Shipped	Shipped Via	F.O.B.	Order No.	Federal Tax	Provincial Tax
Charges re attached Invoice					12,656.00
<p style="text-align: center;"><i>John Grant 6/11</i> <i>#177</i></p>					
REMIT TO: 123 EGLINTON AVENUE EAST, TORONTO M4P 1J3					
TERMS: Net 15th of month following invoice date. Overdue accounts subject to service charge of 1½% per month, (18% per annum on Principal Balance)				PLEASE PAY THIS AMOUNT	12,656.00

**W.A. BARCLAY
EXPLORATION
SERVICES LTD.**

415 - 2070 CAMILLA ROAD, MISSISSAUGA, ONTARIO, L5A 2J7 TEL. (416) 277-1143

23 April 1981

Archer, Cathro & Associates Ltd.
1016 - 510 W. Hastings St.
Vancouver, B.C.

Att'n: Mr. B. Cathro

Re: geophysical services to CUB Joint Venture

contouring of IVO Grids 7,8,9, 10 by Trevor Miles & Associates, as per attached invoice	£ 348.00
reproduction expenses, as per attached invoice	34.52
	<hr/>
AMOUNT DUE	£ 382.52

*paid May 12/81
\$382.52*



**EXCALIBUR
INTERNATIONAL
CONSULTANTS LTD.**

10 Hurontario Street,
Mississauga, Ont., Canada L5G 3G7
Telephone (416) 271-1043

May 5, 1981

Archer, Cathro & Associates Ltd.
1016 - 510 W. Hastings Street
VANCOUVER, B.C.
V6B 1L8

To : geophysical consulting, J.B. Boniwell

1981 April 11, 12, 13, Appraisal of ground magnetic, V.L.F.
14, 15, 16, data IVO, SPORK claims, CUB Joint
17, 18, 19, Venture, Yukon; interpretational
21, 22. reporting with maps and recommendations;
submission of same at J.V. meeting,
Vancouver.

Total, incl. share travel time : 51.5 hrs. \$ 2961.25

Expenses

A. Production

i) Drafting	\$ 89.50	
ii) Reproduction	<u>\$ 10.08</u>	\$ 99.58

B. Travel, J.B.B.

i) Air fares (share)	\$ 311.75	
ii) Accom. (share)	\$ 207.12	
iii) Taxis (share)	\$ 25.50	
iv) Incidentals	<u>\$ 23.58</u>	\$ 567.95
		<u>\$ 3628.78</u>

Invoice No. : 5357

*John Wray 4/3/81
890*

**W.A. BARCLAY
EXPLORATION
SERVICES LTD.**

10 HURONTARIO STREET, MISSISSAUGA, ONTARIO, L5G 3G7 TEL. (416) 274-3837

15 May 1981

Archer, Cathro & Associates Ltd.
1016 - 510 W. Hastings Street
Vancouver, B.C.

Att'n: Mr. B. Cathro

Re: instrument rentals to CUB Joint Venture, to cover
the period 12 May to 11 June 1981.

EM-16 @ \$ 110 per week	\$ 440.00
G-816 magnetometer @ \$ 650 per month	<u>650.00</u>

AMOUNT DUE \$1090.00

1229.60

1379.60 ←

Both instruments were shipped 8 May 1981 to
Watson Lake c/o Litehouse Expediting as per
instructions.

*per May 30/81
\$940*

Cub.

As I expect to be in the bush in the coming months, I would
be grateful if you could arrange to forward a cheque directly
to my bank, as follows: Canadian Imperial Bank of Commerce,
Dundas & Hurontario St., Mississauga, Ontario - Account No.
95-02718.

**W.A. BARCLAY
EXPLORATION
SERVICES LTD.**

10 HURONTARIO STREET, MISSISSAUGA, ONTARIO, L5G 3G7 TEL. (416) 274-3837

21 May 1981

Archer, Cathro & Associates Ltd.
1016 - 510 W. Hastings St.
Vancouver, B.C.

Att'n: Mr. B. Cathro

Re: rental of Canadian Mining Geophysics MR-20 base station
recorder to CJV.

equipment rental, as attached	§ 1254.60
insurance, as attached	<u>35.00</u>
AMOUNT DUE	1289.60

Cathro

**W.A. BARCLAY
EXPLORATION
SERVICES LTD.**

10 HURONTARIO STREET, MISSISSAUGA, ONTARIO, L5G 3G7 TEL. (416) 274-3837

10 June 1981

Archer, Cathro & Associates Ltd.
Box 4127
Whitehorse, Yukon Territory

Att'n: Mr. B. Cathro

Re: rental of Canadian Mining Geophysics' MR-20 magnetic recorder June 11-July 10, and shipping charges for same, as attached

Cut

£ 1157.60

*Jul June 12/81
#960*

As I will be in the bush for much of the summer, I would be grateful if you could direct all cheques to the Canadian Imperial Bank of Commerce, Dundas & Hurontario St. Branch, Mississauga, Ontario: to be credited to account number 95-02718.

W.B.

9 July 1981

Archib, Cathro + Associates Ltd.

Box 4127

Whitehorse, Yukon Terr.

Attn: Mr. B. Cathro

Re: geophysical services to CUB S.U.

ULF-ET and magnetometric surveys by A. Kubalski
8 June - 7 July 1981 (work reports
enclosed)

30 days @ \$160.00 per day

\$ 4800.00

pd July 16/81
977
Wired today to

In the event of a continuing mail strike, I would be grateful if you could transfer a cheque for the above directly to my bank account, as follows: Canadian Imperial Bank of Commerce, Dundas + Hurontario Street, Mississauga, Ontario
Account No. 45-02718

**W.A. BARCLAY
EXPLORATION
SERVICES LTD.**

10 HURONTARIO STREET, MISSISSAUGA, ONTARIO, L5G 3G7 TEL. (416) 274-3837

Car

✓
*copy taken by
Car*

25 August 1981

Archer, Cathro & Associates Ltd.
Box 4127
Whitehorse, Yukon Territory

Att'n: Mr. B. Cathro

Re: rental of geophysical instruments to CUB Joint Venture, 1981

CMG MR-10 and accompanying Barringer mag. as per attached copies of invoices, including credit for returned MR-20, invoices 20809 & 20828	\$ 1235.00
EM-16, 12 June-25 August 1981 75 days @ \$ 110 per week	1178.57
G-816 magnetometer, 12 June-25 August 1981 75 days @ \$ 650 per month	1625.00
	<hr/>
AMOUNT DUE	\$ 4038.57

Put out with #101

RSC

Com floor
by [signature]

[signature]

**W.A. BARCLAY
EXPLORATION
SERVICES LTD.**

10 HURONTARIO STREET, MISSISSAUGA, ONTARIO, L5G 3G7 TEL (416) 274-3837

11 September 1981

Archer, Cathro & Associates Ltd.
Box 4127
Whitehorse, Yukon Territory

✓

Att'n: Mr. B. Cathro

Re: geophysical services to CUB Joint Venture, 1981

VLF-EM and magnetic surveys by N. Rebalski,
August 1 - September 2, 1981 (work report
enclosed)

33 days @ \$ 160 per diem \$ 4800.00

rental of EM-16, 26 August - 8 Sept. as
returned

14 days @ \$ 110 per week 220.00

rental of G-816 magnetometer as above

14 days @ \$ 650 per month 303.33

AMOUNT DUE 5323.33

pd Oct 2nd/81
#1102

**W.A. BARCLAY
EXPLORATION
SERVICES LTD.**

10 HURONTARIO STREET, MISSISSAUGA, ONTARIO, L5G 3G7 TEL. (416) 274-3837

✓
1 October 1981

Archer, Cathro and Associates (1981) Limited
1016 - 510 W. Hastings Street
Vancouver, B.C.

Att'n: Mr. B. Cathro

To credit your account for refund on rental costs of MR-20
recorder, May 11 - May 25, 1981, as attached

CREDIT \$ (600.00)

*total 2101.76
Ord Oct 21/81
1103*

**W.A. BARCLAY
EXPLORATION
SERVICES LTD.**

10 HURONTARIO STREET, MISSISSAUGA, ONTARIO, L5G 3G7 TEL. (416) 274-3837

*copy taken by
Car*

17 September 1981

Archer, Cathro & Associates Ltd.
1016 - 510 W. Hastings Street
Vancouver, B.C.

Att'n: Mr. B. Cathro

Re: geophysical services to CUB Joint Venture, 1981

VLF-EM and magnetic surveys by N. Rebalski,
July 8 - 23, 1981
16 days @ \$ 160 per diem \$ 2560.00

expenses as follow, receipts attached

repair of mag. sensor	\$ 51.73	
data shipment to T. Miles	3.05	
rental of sensor head	114.80	
rental of sensor head	104.80	
rental of MR-10, etc.	899.51	
repairs to EM-16	<u>67.87</u>	
	\$ 1241.76	<u>1241.76</u>

AMOUNT DUE \$ 3801. 76

**W.A. BARCLAY
EXPLORATION
SERVICES LTD.**

10 HURONTARIO STREET, MISSISSAUGA, ONTARIO, L5G 3G7 TEL (416) 274-3837

12 November 1981

Archer, Cathro and Associates (1981) Limited
1016 - 510 W. Hastings Street
Vancouver, B.C.

Att'n: Mr. B. Cathro



Re: expenses to CUB Joint Venture, 1981

magnetic contouring, T.J. Miles,
as attached \$ 208.00

return shipping charges Barringer mag.
as attached 8.07

AMOUNT DUE \$ 216.07

John Dewar
#1131
OK



CHEMEX LABS LTD.

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

• ANALYTICAL CHEMISTS • GEOCHEMISTS • REGISTERED ASSAYERS

*** INVOICE ***

To : ARCHER CATHRO & ASSOC. LTD.
BOX 4127
WHITEHORSE, Y.T.
Y1A 3S9

Invoice # : I8112712

Date : 12-AUG-81
P.O. # : NONE
Project CUB

Invoice for analytical work reported on certificate(s) A8112712-001

Quantity	Analysed for code description	unit price	amount
35	003 - Mo ppm		
	018 - W ppm	5.50	192.50

Sample preparation and other charges :

35	205 - Rock geochem - RING	2.00	70.00
----	---------------------------	------	-------

TOTAL \$ 262.50

Discount (20 %) \$ 52.50

Please pay this amount ----> \$ 210.00

=====

ERMS -- NET 30 DAYS

• 0 % per month (24 % per annum) charged on overdue accounts



MEMBER
CANADIAN TESTING
ASSOCIATION



CHEMEX LABS LTD.

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

• ANALYTICAL CHEMISTS • GEOCHEMISTS • REGISTERED ASSAYERS

*** INVOICE ***

To : ARCHER CATHRO & ASSOC. LTD.
BOX 4127
WHITEHORSE, Y.T.
Y1A 3S9

Invoice # : I8112715
Date : 14-AUG-81
P.O. # : NGNE
Project CUB

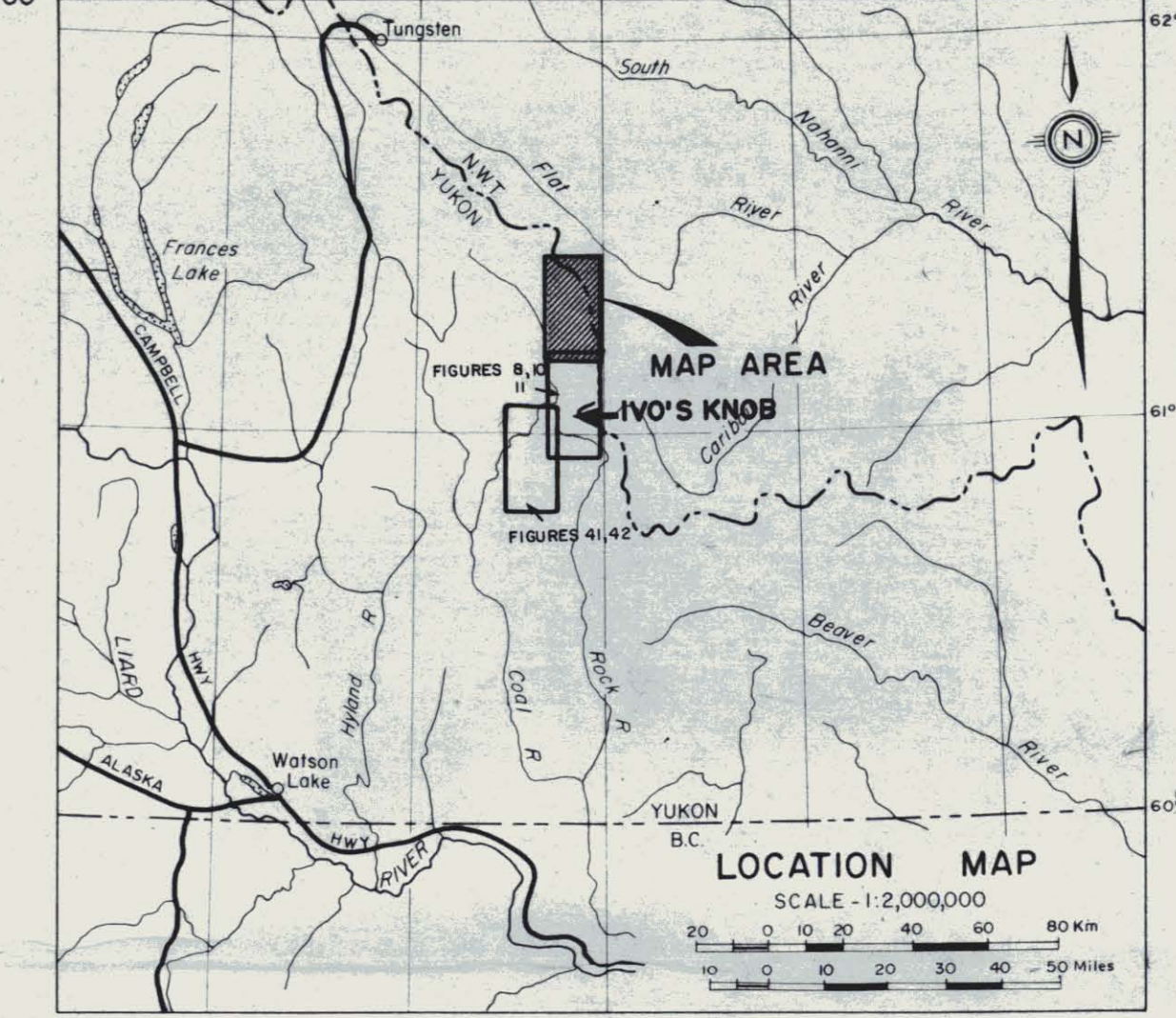
Invoice for analytical work reported on certificate(s) A8112715-001 to -006

Quantity	Analysed for code description	unit price	amount
240	003 - Mo ppm		
	018 - W ppm	5.50	1320.00
Sample preparation and other charges :			
240	203 - -35 mesh sieve + ring	1.50	360.00

			TOTAL \$ 1680.00
			Discount (20 %) \$ 336.00

Please pay this amount ---->			\$ 1344.00
			=====

TERMS -- NET 30 DAYS
2.0 % per month (24 % per annum) charged on overdue accounts



LEGEND

TERTIARY (and Cretaceous ?)
 Tks Biotite-hyalocrite, tourmaline granite

CRETACEOUS (possibly Tertiary ?)
 Kqm Quartz monzonite, granodiorite; minor granite and diorite

ORDOVICIAN, SILURIAN AND LOWER DEVONIAN
 OSDr ROAD RIVER FORMATION: black, pyritic shale, locally phyllitic; thin-bedded, black, argillaceous limestone; pale olive-green, shaly limestone, grey and black chert; calcareous siltstone; black cherty dolomite, locally included strata of middle Devonian to Carboniferous age

LOWER CAMBRIAN
 ICs SEMI FORMATION: undivided; massive, light pink and orange dolomite, light grey and brown limestones; ICbrq cherty calc-silicate rocks
 ICbrq BACONNE RANGE FORMATION: resistant, thick bedded grey quartzite, grey phyllite, minor sandy limestone and pebble conglomerate
 ICbrl BACONNE RANGE FORMATION: massive buff or pink weathering dolomite, grey limestones, local sandy to pebbly limestone and dolomite

CAMBRIAN AND (?) HADRIAN
 EH "Phyllite unit": phyllite, slate, fine-grained quartzite, siltstone, argillite
 H "Grit unit": dark shale and slate, gritty quartzite, calcareous, quartz-pebble conglomerate; sandstone; maroon, green and buff shale and silt; minor limestone and phyllite
 Hls Massive grey limestone

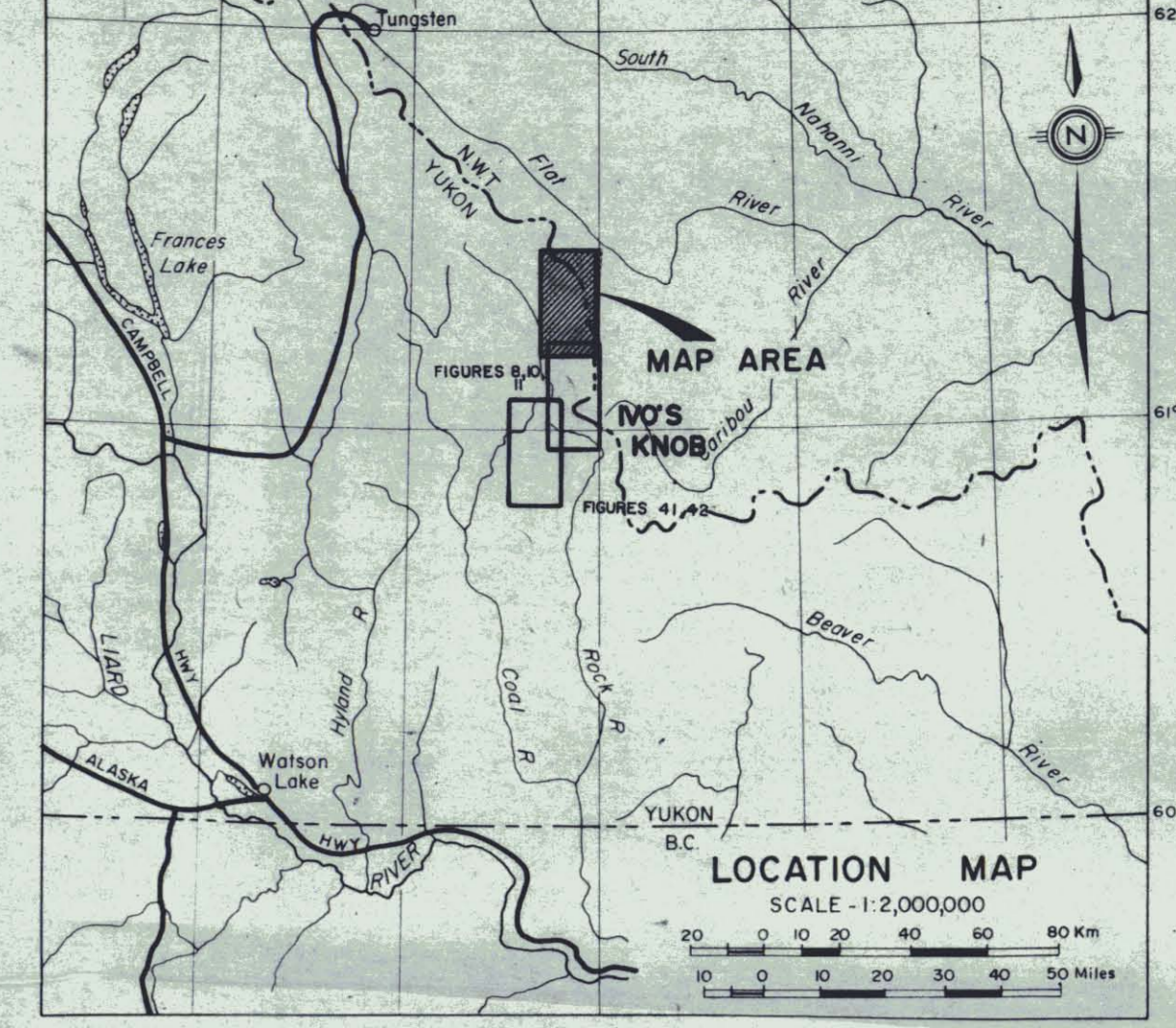
★ Skarn occurrence
 --- Claim boundary
 --- Fault

Fig. 3
 ARCHER, CATIRO & ASSOCIATES (1981) LTD.
GEOLOGY
 CREAM PROPERTY
 CUB JOINT VENTURE

SCALE 1:200,000

MAP # 95-46 Dec # 09/1980

091020



LEGEND

- Soil, Silt, Silt/Pan sample location site (+10 ppm W₃, +10 gr. Scheelite)
- ▲ Pan sample location site (+10 gr. Scheelite)
- +250 ppm W₃
- 100-249 ppm W₃
- 50-99 ppm W₃
- 25-49 ppm W₃
- 10-24 ppm W₃
- -10 ppm W₃
- Claim Boundary
- ★ Seam Occurrence

Fig. 4
 ARCHER, CATHRO & ASSOCIATES (1981) LTD. 091020
TUNGSTEN GEOCHEMISTRY
 CREAM PROPERTY
 CUB JOINT VENTURE

SCALE - 1:20,000

map# 95-ELK No # 091020 (10)

9000N 10000N 11000N 12000N 13000N 14000N 15000N 16000N 17000N 18000N

12100W
091020
12100W
12000W
11900W
11800W
11700W
11600W
11500W
11400W
11300W
11200W
11100W
11000W
10900W
10800W
10700W
10600W
10500W
10400W
10300W
10200W
10100W
10000W

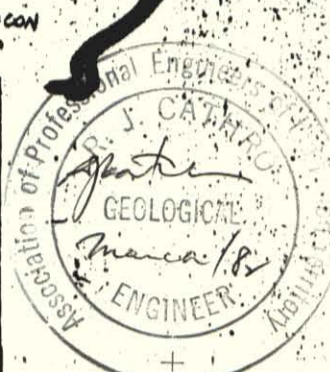
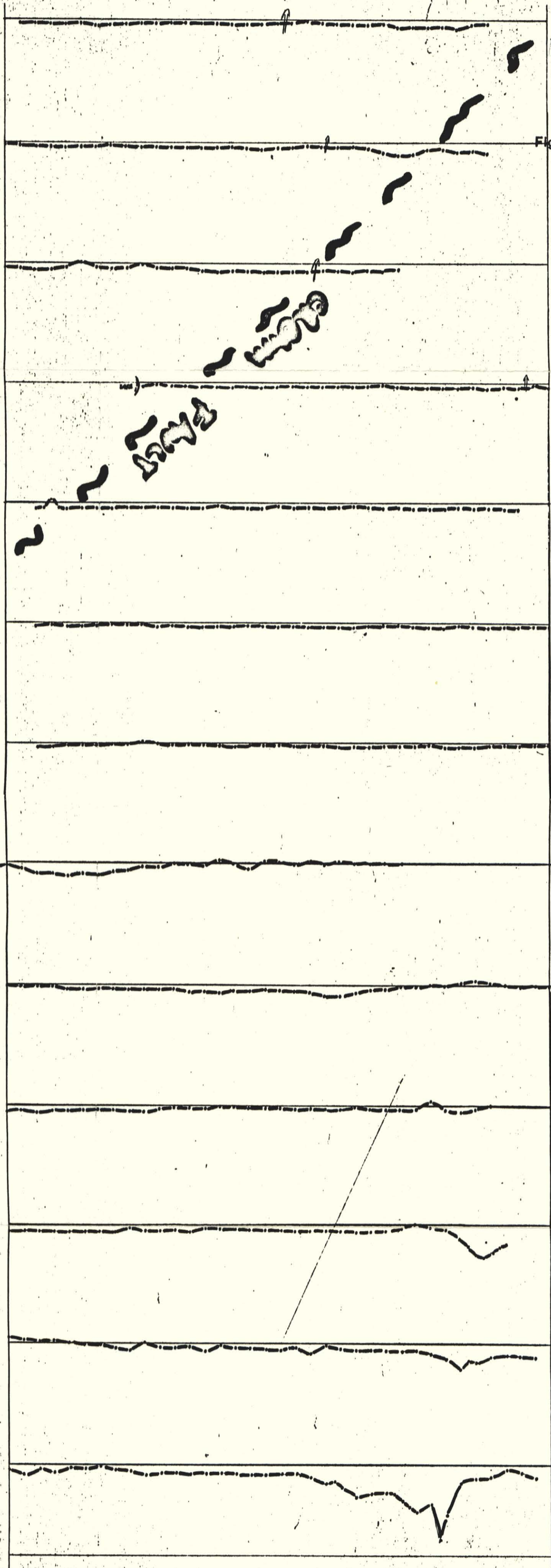
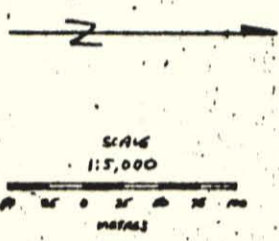


Figure 5 - Cream Grid

ANTON MS SURVEY
of
NORTH GRID CREAM CLAIMS
NORTH SCALE 1cm = 50 m
WEST SCALE 1cm = 700Y
BASE VALUE = 59,100Y
INSTRUMENT: GEOMETRICAL OPTIC THEODOLITE
BACHMANN RESEARCH OFFICE
BASE
CMB PHOTO RECORDER
OPERATORS: PERNO, ABBASAI
FOR
PACHA, CATHRO AND ASSOC LTD.
CUB SONNET VENTURE
BY
W.A. BARCLAY
EXPLORATION
SERVICES LTD.
JULY 1981



↑ CREEK

100

MAP# 95-E/6
Doc # 091020

