

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



REPORT ON
GEOPHYSICAL, GEOCHEMICAL, AND MAPPING SURVEYS
CONDUCTED JULY 24 TO AUGUST 7, 1981

FOR

CUB JOINT VENTURE

OUDDER 1-16 (YA65867-YA65882)
OUDDER 17-22 (YA66821-YA66826)
FAR 1- 8 (YA66170-YA66177)
FAR 9-16 (YA66019-YA66026)
WAY 1-16 (YA66154-YA66169)



WATSON LAKE MINING DISTRICT,
YUKON TERRITORY
CLAIM SHEET 95D/10

MARCH, 1982

091019

Latitude 60°36'N

Longitude 126°42'W

C.A. Main, B.Sc.

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

This report has been examined by
the Geological Evaluation Unit
under section 53 (4) of the Quartz
Mining Act and is allowed as
representation work in the amount
of \$ 9,450.

P. Watson

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

010100



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:-

- 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)

WAY 1-16; YA 66154-169

situated at BEAVER RIVER AREA Claim Sheet No. 95D/10
in the WATSON LAKE Mining District, to the value of at least \$2800.00
dollars, since the 10 day of JULY 19 81.

to represent the following mineral claims under the authority of Grouping Certificate No. 3203
(Here list claims to be renewed in numerical order, by grant number and claim name, showing renewal period requested).

GROUP 1 + WAY 1-16 YA 66154-169 INCLUSIVE - 13 1/4 YRS EACH = 28 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 MAPPING
SURVEYS BY CUB JOINT VENTURE ON OUDDER, FAR & WAY CLAIMS
NTS 95D/10 BY C.A. MAIN AND R.J. CATHRO P. ENG. MARCH, 1982

TOTAL EXPENDITURES	\$10,899.77
LESS GROUP 1	2,800.00
BALANCE GROUP 1	\$8,099.77

091019

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

Notary Public

M.P. PHILLIPS 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.)



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)

OUDDER 1-16; YA 65867-882

situated at BEAVER RIVER AREA Claim Sheet No. 95D/10

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. 3303
(Here list claims to be renewed in numerical order, by grant number and claim name, showing renewal period requested).

GROUP 2 * OUDDER 1-16; YA 65867-882 INCL. 134 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 MAPPING SURVEYS
BY CUB JOINT VENTURE ON OUDDER, FAR 2 WAY CLAIMS, NTS 95D/10
BY R.J. CATHRO, P. ENG. AND C.A. MAIN, MARCH, 1982

BALANCE GROUP 1	\$8,099.77
LESS GROUP 2	2,800.00
BALANCE GROUP 2	\$5,299.77

Sworn before me at WHITEHORSE, YUKON

this 27 day of APRIL 1982

Alan Decker
Notary Public

M.P. Phillips
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.)



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

OFFICE DATE STAMP

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)
OUDDER 17-22, YA 66821-826

situated at BEAVER RIVER AREA Claim Sheet No. 95 D/10
in the WATSON LAKE Mining District, to the value of at least \$1050.00
dollars, since the 10 day of AUGUST 1981,

to represent the following mineral claims under the authority of Grouping Certificate No. 3504
(Here list claims to be renewed in numerical order, by grant number and claim name, showing renewal period requested).

GROUP 3 * OUDDER 17-22, YA 66821-826 13/4 YRS EACH = 10.5 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.)

BALANCE GROUP 2.	\$5,299.77
LESS GROUP 3.	1,050.00
BALANCE GROUP 3	\$4,249.77

SEE REPORT ON GEOPHYSICAL, GEOCHEMICAL AND MAPPING SURVEYS
BY CUB JOINT VENTURE ON OUDDER, FAR & WAY CLAIMS, NTS 95 D/10
BY C A MAIN AND R.J. CATHRO, P. ENG., MARCH, 1982

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

Alan Lubber
Notary Public

M.P. Phillips
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.)



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

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)

FAR 1-16, YA 66170-177 & YA 66019-026 INCLUSIVE

situated at BEAVER RIVER AREA Claim Sheet No. 95D/10

in the WATSON LAKE Mining District, to the value of at least \$ 2800.00
dollars, since the 10 day of JULY 1981 FAR 1-8
3 day of JULY 1981 FAR 9-16

to represent the following mineral claims under the authority of Grouping Certificate No. 3205
(Here list claims to be renewed in numerical order, by grant number and claim name, showing renewal period requested).

GROUP 4 * FAR 1-8 YA 66170-177 } 1 3/4 YRS EA = 28 CLAIM YEARS
9-16 YA 66019-026 }

* 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 MAPPING SURVEYS BY CUB JOINT VENTURE, ON OUDDER, FAR & WAY CLAIMS, NTS 95D/10 BY C.A. MAIN AND R.J. CATHEO, P. ENG., MARCH, 1982

BALANCE GROUP 3 \$ 4,249.77
LESS GROUP 4 2,800.00
BALANCE GROUP 4 \$ 1,449.77

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

Swan Decker
Notary Public

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

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SUMMARY AND RECOMMENDATIONS

The Oudder granodiorite stock intrudes middle to lower Paleozoic limestone, siltstone and chert. Streams draining from the intrusive contact contain anomalous amounts of scheelite and unmineralized garnet-diopside skarn has been found along the north part of the contact at Anomaly A, which consists of coincident tungsten, molybdenum, and gold geochemical values as well as intense and erratic magnetic anomalies. The remainder of the contact has weakly anomalous geochemical values in tungsten and molybdenum and irregular weakly anomalous magnetic responses. The northern portion of the property is underlain by siltstone and cherts which produce moderately anomalous molybdenum values.

Trenching is required to locate and examine the mineralization which is producing the geochemical and geophysical anomalies. In this remote locality, only hand trenching is warranted at this time. If tungsten mineralized skarn is located, further geophysics, trenching and possibly drilling may be required.

INTRODUCTION

The Oudder claims were staked to cover the Oudder stock, one of four intrusions shown in this area on GSC map 11-1968. These intrusions are small and lie well east and south of the normal trend of batholiths within the MacKenzie mountains, (see Figures 1 and 2, on the following page).

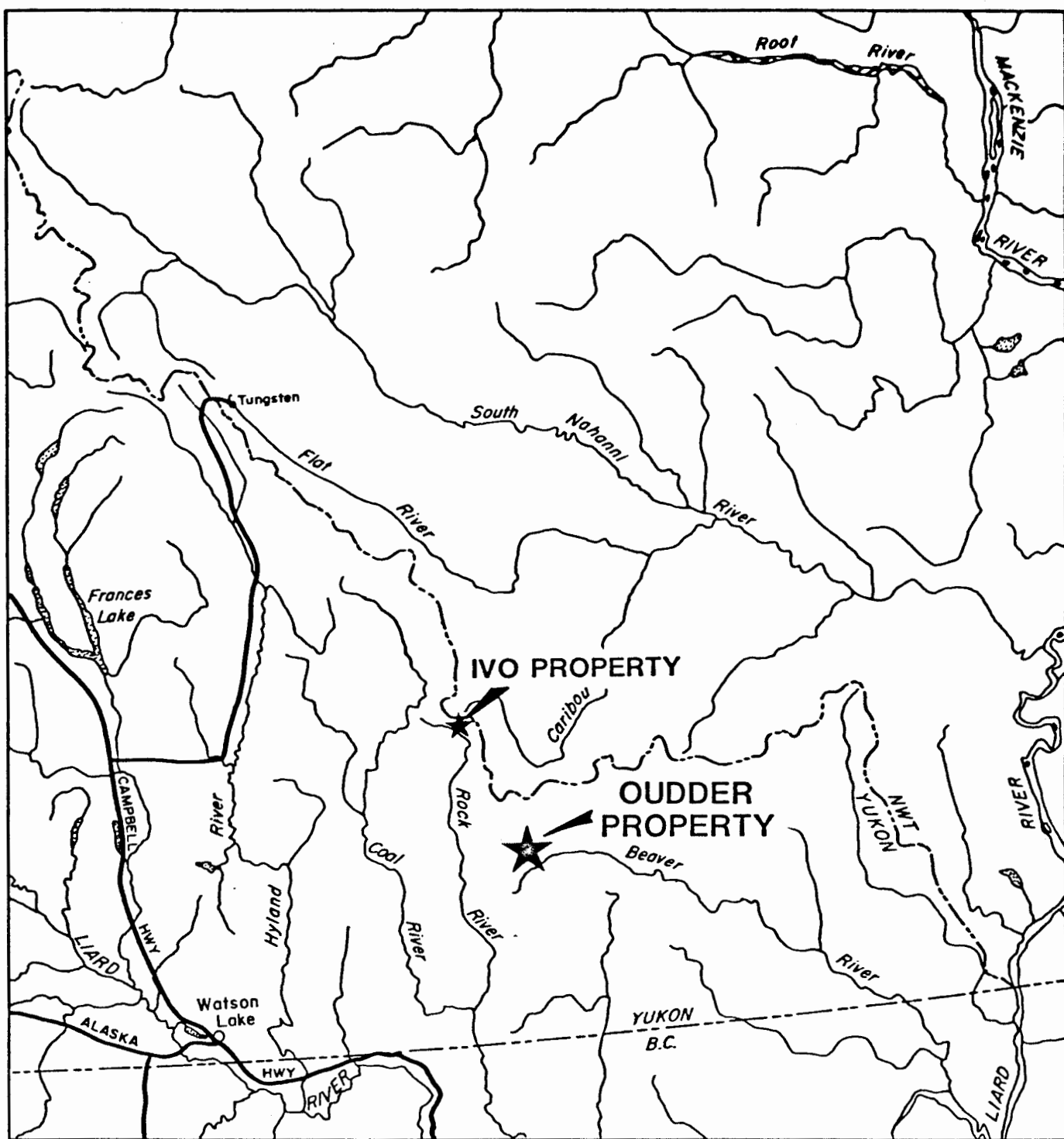


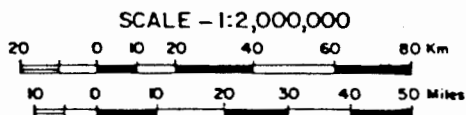
Figure 1

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

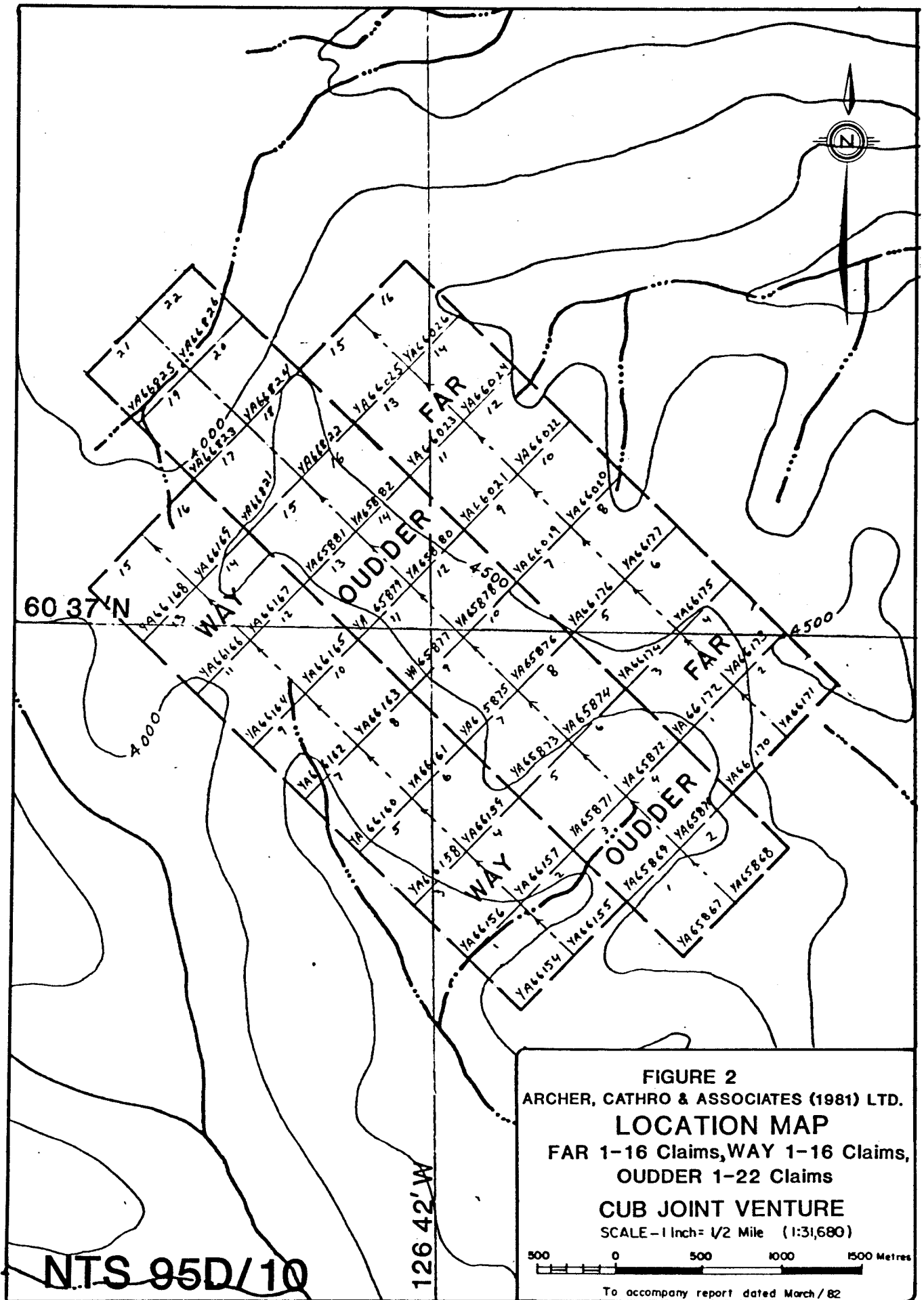
OUDDER PROPERTY

COAL RIVER DISTRICT

CUB JOINT VENTURE



To accompany report dated March, 1982



60 37' N

126 42' W

NTS 95D/10

FIGURE 2
ARCHER, CATHRO & ASSOCIATES (1981) LTD.
LOCATION MAP
FAR 1-16 Claims, WAY 1-16 Claims,
OUDDER 1-22 Claims
CUB JOINT VENTURE
SCALE - 1 Inch = 1/2 Mile (1:31,680)
 500 0 500 1000 1500 Metres
 To accompany report dated March/82

In 1980, these plutons were visited by CUB Joint Venture personnel (Brinco Mining Limited, formerly Cassiar Asbestos Corporation Limited; Highland-Crow Resources Ltd, an affiliate of Teck Corporation Ltd; and Union Carbide Canada Limited) to determine whether the stocks had any porphyry tungsten-molybdenum potential. Soil samples collected in 1980 over the Oudder stock (formerly referred to by CUB Joint Venture as Outlier 4) returned values of up to 10 ppm Mo, which is similar to the response over parts of the Salivo stock on the Ivo property, 60 km to the northwest, which has developed tungsten mineralization.

Sampling around the Oudder stock in 1981 disclosed anomalous tungsten panning values which led to staking and subsequent geochemical surveys. A ground magnetic survey was completed by contractor W.A. Barclay Exploration Services Ltd. The programs were managed by C.A. Main of Archer, Cathro & Associates (1981) Limited.

PROPERTY, LOCATION AND ACCESS

The Oudder property consists of 54 contiguous Yukon claims recorded in the name of Archer, Cathro & Associates (1981) Limited at the Watson Lake Mining Records 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>
Oudder	1-16	16	Watson Lake	95D/10	YA65867-YA65882	25 June, 1982
	17-22	6	Watson Lake	95D/10	YA66821-YA66826	10 August, 1982
Far	1- 8	8	Watson Lake	95D/10	YA66170-YA66177	10 July, 1982
	9-16	8	Watson Lake	95D/10	YA66019-YA66026	3 July, 1982
Way	1-16	<u>16</u>	Watson Lake	95D/10	YA66154-YA66169	10 July, 1982
	TOTAL	54				

The Oudder area is situated at latitude 60°36'N and longitude 126°42'W, 125 km east-northeast of Watson Lake and 60 km north of the Alaska Highway. Access in 1981 was by helicopter from a base camp on the Ivo property, 60 km to the northwest.

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 every 12.5 m.

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 concentrates which were examined by UV lamp under a light-proof cape to determine the number of grains of fluorescing scheelite. The heavy mineral concentrates are retained on a filter paper and stored in a numbered kraft bag 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 dithioltoluene, 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 and for gold by neutron activation of a fire-assayed silver button.

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. Readings were taken every 12.5 m.

GEOMORPHOLOGY

The Oudder property lies in gently mountainous terrain with rounded ridges reaching elevations of 1500 m and valley floors occurring at the 1000 m elevation. Thick vegetation covers all but the higher ridges and outcrop or helicopter landing sites are scarce. Glacial till is probably extensive in the larger valley systems such as the Beaver River, 10 km to the south.

GEOLOGY

The geology of the Oudder property is shown on Figure 3 (in pocket) and on the Table of Formations (on following page). Exposure on the property is poor and no geological contacts are exposed. The Oudder stock, composed of hornblende-biotite granodiorite, intrudes middle to lower Paleozoic limestone, siltstone and chert (from GSC map 11-1968):

TABLE ONE - GENERAL TABLE OF FORMATIONS

COAL RIVER TUNGSTEN BELT

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.

OSDr - Road River Formation

Cherts, siltstones and minor shales of this formation are exposed northwest of the stock. They strike about N40E and dip gently northwest;

Os - Sunblood Formation

White to grey, massive, pink weathering, fine-grained limestone is the principal rock type on the property. It outcrops to the north and southeast of the stock and is probably in contact with the stock for most of its perimeter. Unmineralized, dark garnet-diopside skarn, which was found as float along the northeast margin of the intrusive, is probably developed from this limestone.

MINERALIZATION

There has been no mineralization found on the Oudder property.

GEOCHEMISTRY

In 1981, 418 soil samples were collected and analyzed for tungsten and molybdenum and 215 of the soil samples were also analyzed for gold. The results are plotted on Figures 4 to 6 (in pocket). Background is about 1 ppm W, 1 ppm Mo, and less than 5 ppb Au with values over 10 ppm W, 3 ppm Mo, and 10 ppb Au considered anomalous.

Most of the moderately anomalous tungsten values, ranging up to 55 ppm W, are found in one cluster designated Anomaly A (see Figure 4, in pocket, for location). It trends northwest and is approximately 1.5 km long and

is open to the southeast. This anomaly is situated upstream from panning anomalies of 30 and 35 grains scheelite and is located near an interpreted embayment in the contact where the skarn float mentioned earlier was found. Other small clusters of samples with weakly anomalous values ranging up to 27 ppm W occur near the southern perimeter of the stock.

Anomalous molybdenum values occur at four locations (see Figure 5, in pocket, for locations):

- (a) anomalous molybdenum values ranging up to 42 ppm Mo form a strong north-easterly linear trend that cuts across tungsten anomaly A;
- (b) anomaly B consists of weak values up to 6 ppm in an area apparently underlain by the Oudder stock;
- (c) anomaly C is located at the northeast corner of the soil sample grid in an area underlain by cherts and siltstones of the Road River Formation. The anomaly contains values ranging up to 11 ppm Mo and is open to the north. A number of regional stream sediment samples in this northern area are also anomalous, with silt samples from the head of Sebur and Ostrich Creeks returning values of up to 59 and 28 ppm Mo respectively;
- (d) erratic low values of up to 4 ppm Mo are scattered along the southern perimeter of the stock.

Anomalous gold values ranging up to 81 ppb Au are roughly coincident with tungsten anomaly A.

MAGNETIC SURVEY

In 1981, 27.0 line-km were surveyed for ground magnetic response. Figure 7, (in pocket), is a contoured representation of the magnetic profiles, which

are shown on Figures 8 to 10 (in pocket). There has been no professional interpretation of this data.

Magnetic variability is high over most of the Oudder stock and is extremely high (ranging up to 8000 gammas over 50 m) at the northern contact of the stock. This intense magnetic anomaly is probably due to magnetite and may be related to skarn formation and/or to magnetite content in cherts. Lower intensity magnetic anomalies along the north, east, and south contact of the intrusion are more likely to be caused by a tungsten-bearing skarn formation.

The intrusive contact shown on the geology map is interpreted from this magnetic data. The Sunblood limestone has a flat magnetic profile and can be distinguished from the intrusion along the northeast and southern contacts. The interpretation of the contact to the southwest, where the stock intrudes siltstones and cherts is tenuous and is partly based on geological data.

CONCLUSIONS

The development of skarn along an intrusive contact with middle Paleozoic Sunblood limestones coincident with modest tungsten, molybdenum and gold geochemical anomalies and intense ground magnetic anomalies indicate that the Oudder property has a moderate to low potential for the development of

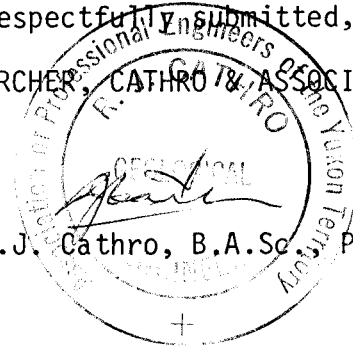
tungsten mineralization. Further work is required to evaluate the source of the geophysical and geochemical anomalies and the next phase of work should consist of hand trenching to determine the nature and grade of the mineralization which is producing these anomalies.

Charles A. Main

C.A. Main, B.Sc.

Respectfully submitted,
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED,

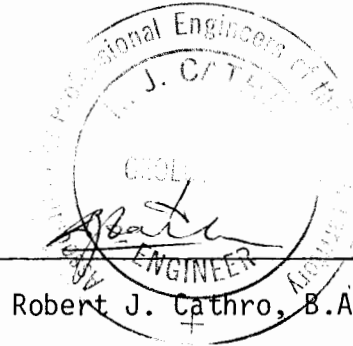
R.J. Cathro, B.A.Sc., P.Eng.



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 3S8 (403) 667-4415

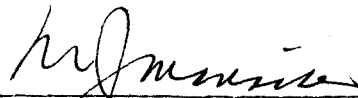


1016 - 510 WEST HASTINGS STREET
VANCOUVER, B.C. V6B 1L8

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 Oudder 1-22, Far 1-16, Way 1-16 mineral claims on Claim Sheet 95D/14 is accurate.



Joan Mariacher

Sworn before me at Vancouver, B.C.
this 16th day of
March, 1982



Notary, Yukon Territory

091019

Statement of Expenditures
Oudder 1-22, Far 1-16, and Way 1-16 Claims
March 12, 1982

Labour

C. Main - July 24, 28, Aug. 1 - total 3 days @ \$230/day	\$ 690.00	
W. Penno - July 28 - total 1 day @ \$107/day	107.00	
C. Shuttle - July 28 - total 1 day @ \$86/day	86.00	
H. McIsaac - Aug. 7 - total 1 day @ \$80/day	80.00	
K. Opsetmoen - July 24-31, Aug. 3-7 - total 13 days @ \$80/day	1,040.00	
B. Johnston - July 24-31, Aug. 1-4 - total 12 days @ \$110/day	<u>1,320.00</u>	\$ 3,323.00

Expenses

Helicopter - 7.7 hours Bell 206C on contract from Shirley Helicopters @ \$367/hour	\$2,825.90	
Helicopter fuel - 7.7 hours at 22 gal/hour = 169.4 hours @ \$6.50/gal on site	1,101.10	
Geophysical surveys - 27 km (8.81% of 1981 work 22,755.56)	2,004.77	
Camp and field survey costs - 31 mandays @ \$45/day - groceries, mapping, flagging, etc.	1,395.00	
Management	<u>250.00</u>	<u>7,576.77</u>
		<u>\$10,899.77</u>

In Account With

CUB JOINT VENTURE

JULY 31, 1981

Project -
Date --

		Total
MANAGEMENT		
	July	A 2,500.00
LABOUR		
Supervisory		
Field		
CA MAIN - JULY 1-31 AT 3000/mo		3000.00
L GREYTON - JULY 1-31 AT 2100/mo		2100.00
W PENNO - JULY 1-31 AT 1700/mo		1700.00
L KALBUN - JULY 1-31 AT 1800/mo		1800.00
C SHUTTLE - JULY 1-31 AT 1350/mo		1350.00
D LISTER - JULY 1-31 AT 1350/mo		1350.00
H MacISAAC - JULY 1-23, 26-31 AT 1169/mo		1169.00
K OPIETMOEN - JULY 1-31 AT 1250/mo		1250.00
B. JOHNSTON - JULY 16-31 AT 1750/mo		902.00
F. SCHUERNECK - JULY 1-2, 19-22 AT 1350/mo		261.00
	plus 50%	B 14883.00
Casual		B 7441.50
EXPENSES		
Accounting	July	400.00 C3
Expediting	July 1-31	900.00 DV
Room & Board in Whse	Schuerneck 2; MacIsaac 4; Lister 7; Luxmoore 1;	
	total 14 days at \$ 35/day	490.00 DV
Field equipment from AC stock		30.00 D1
Xerox copies, 913 copies at 25¢/copy		228.25 C1
Radio rental	SBX 100 July; SKX 10 July,	500.00 D1
Rental AC truck	at \$ /mo.	
plus (to) kms at /km		
Petty cash	5.50 CV + 9.25 DV + 1.75 D1 + 1.50 D1	9.58
Telephone		5.50 CV 3.75 D1 9.25 DV
Blueprinting, 487 sq. ft. Ozalid at 30 c/ft plus sq. ft. Dilar at \$ /ft.		146.10 C1
Drafting, 31 1/2 hrs. at \$ 18 /hr.		567.00 C1
Rentel Ac computer to receive Chemne data		150.00 D1
Yuko: Harvest Food Centre		3.54 DV
White line motor		3.95 DV
Intech Services		23.85 CV
Car. Freightway		11.65 DV
Yuko: Hubs		5.60 D1
		28303.00
Total		

In Account With

Project - CUB JOINT VENTURE
Date - - AUGUST 31, 1981

MANAGEMENT		Total
Aug		A 2,500.00
LABOUR		
Supervisory		
M. P. Phillips - 1/2 day file cream assess.		B 125.00
Field		
C.A. MAIN - AUG 1-31 AT 3000/mo		3000.00
L GREXTON - AUG 1-31 AT 2100/mo		2100.00
W. PENND - AUG 1-31 AT 1700/mo		1700.00
C SHUTTLE - AUG 1-31 AT 1350/mo		1350.00
D LISTER - AUG 1-31 AT 1350/mo		1350.00
H MACISAAC - AUG 1-31 AT 915/mo		915.00
L KALBUN - AUG 1-31 AT 1200/mo		1200.00
K OPSETMOEN - AUG 1-31 AT 1800/mo		1800.00
B JOHNSTON - AUG 1-31 AT 1250/mo		1250.00
R IRRISH - AUG 14; 29-31 AT 1250/mo		1411.00
		323.00
		15099.00
Casual K. HACKMAN AUG 21+31 - 2 DAYS AT 120/DAY		240.00
		plus 50 %
		7549.50
		240.00
EXPENSES		
Accounting Aug		400.00
Expediting Aug 1-31		900.00
Room & Board in Whse HACKMAN-2; LISTER-2; MACISAAC-1; JOHNSTON-4; Rebalshi 1; main 1, Opsatman 1, Patrick 1, Perno 1		900.00
total 14 days at \$ 35 /day		490.00
Field equipment from AC stock - 50 mm-day fly Camp Aug 2-31 @ 18/d		900.00
Xerox copies, 204 copies at 25 /copy		51.00
Radio rental 5BX 100 Aug + 1 5BX 11 Aug		500.00
Rental AC truck		
plus (to) at \$ /mo.		
kms at /km		
Petty cash C2-225; D1-8.44; D2 60.25		71.39
Telephone		31.80
Blueprinting, 106 sq.ft Ozalid at 30 c/ft plus - sq.ft. Dilar at \$ - /ft.		108.00
Drafting, 6 hrs at \$ 18 /hr.		108.00
Rental AC computer terminal for Clamen chika		150.00
Yuba Windows, radio repair		5.00
W-200 Lab Windows		8.49
Tabor		11.65
Hawkins Office - 16.75 - 3.02		14.77
Yuba Hotel Food		5.80
Northern Michellie		10.36
Frab Plovering & Harting		6.00
Recession General		1.00
Change		29.20
C.P. Air fuel		13.80
Yuba Office		15.60
Postage		100.00
White Pass		49.60
		3878.46
Credit - D1 Refund - AC Petty cash.		(115.00)
		(115.00)
Total		29,276.96



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.

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

John Gung 31/81 #1049 Total 59674.20

B 3283



INVOICE

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

August 31, 1981

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

CUSTOMER'S ORDER NUMBER

HELICOPTERS
C-GBZL

PAYABLE AT PAR EDMONTON
PILOT
Butcher

DESCRIPTION

CHARGES

July 30, 1981	78987	2.2 hrs. @ \$365. per hr. Plus Oil @ \$2.00 per hr.	\$ 803.00 4.40
July 31, 1981	78988	No Flying	
Aug. 1, 1981	78989	2.7 hrs. @ \$365. per hr. Plus Oil @ \$2.00 per hr.	985.50 5.40
Aug. 2, 1981	78990	1.5 hrs. @ \$365. per hr. Plus Oil @ \$2.00 per hr.	547.50 3.00
August 3, 1981	78991	1.6 hrs. @ \$365. per hr. Plus Oil @ \$2.00 per hr.	584.00 3.20
August 4, 1981	78992	2.3 hrs. @ \$365. per hr. Plus Oil @ \$2.00 per hr.	839.50 4.60
August 5, 1981	78993	1.6 hrs. @ \$365. per hr. Plus Oil @ \$2.00 per hr.	584.00 3.20
August 6, 1981	78994	2.7 hrs. @ \$365. per hr. Plus Oil @ \$2.00 per hr.	985.50 5.40
August 7, 1981	78995	3.8 hrs. @ \$365. per hr. Plus Oil @ \$2.00 per hr.	1,387.00 7.60
August 8, 1981	78996	4.0 hrs. @ \$365. per hr. Plus Oil @ \$2.00 per hr.	1,460.00 8.00
August 9, 1981	78997	2.3 hrs. @ \$365. per hr. Plus Oil @ \$2.00 per hr.	839.50 4.60
			<u>\$9,064.90</u>

B 3788

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

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	<u>7,656.00</u>
	\$ <u>12,656.00</u>

Please make cheque payable to:

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

V
ca

60 mi

90
125



UNION CARBIDE CANADA LIMITED

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

DUNS 20-177-4676

- 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 Cairns 6/81 #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

AMOUNT DUE 382.52

*paid May 13/81
\$875*



**EXGALIBUR
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>	<u>\$ 567.95</u>
		<u>\$ 3628.78</u>

Invoice No. : 5357

*John May 13/81
898*

**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 Lighthouse Expediting as per
instructions.

*1229.60
1379.60*

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

Cub

8 1157.60

*John 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. R. Cathro

Re: geophysical services to CUB & U.

ULF-ET and magnetometer 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: Co-operative Superior 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

AMOUNT DUE

§ 4038.57

*paid out with
#1101*

RSC

Com flwr
by Can

Can ✓

**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)

*Journal 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
C*

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. Rebaliski,
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

1241.76

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

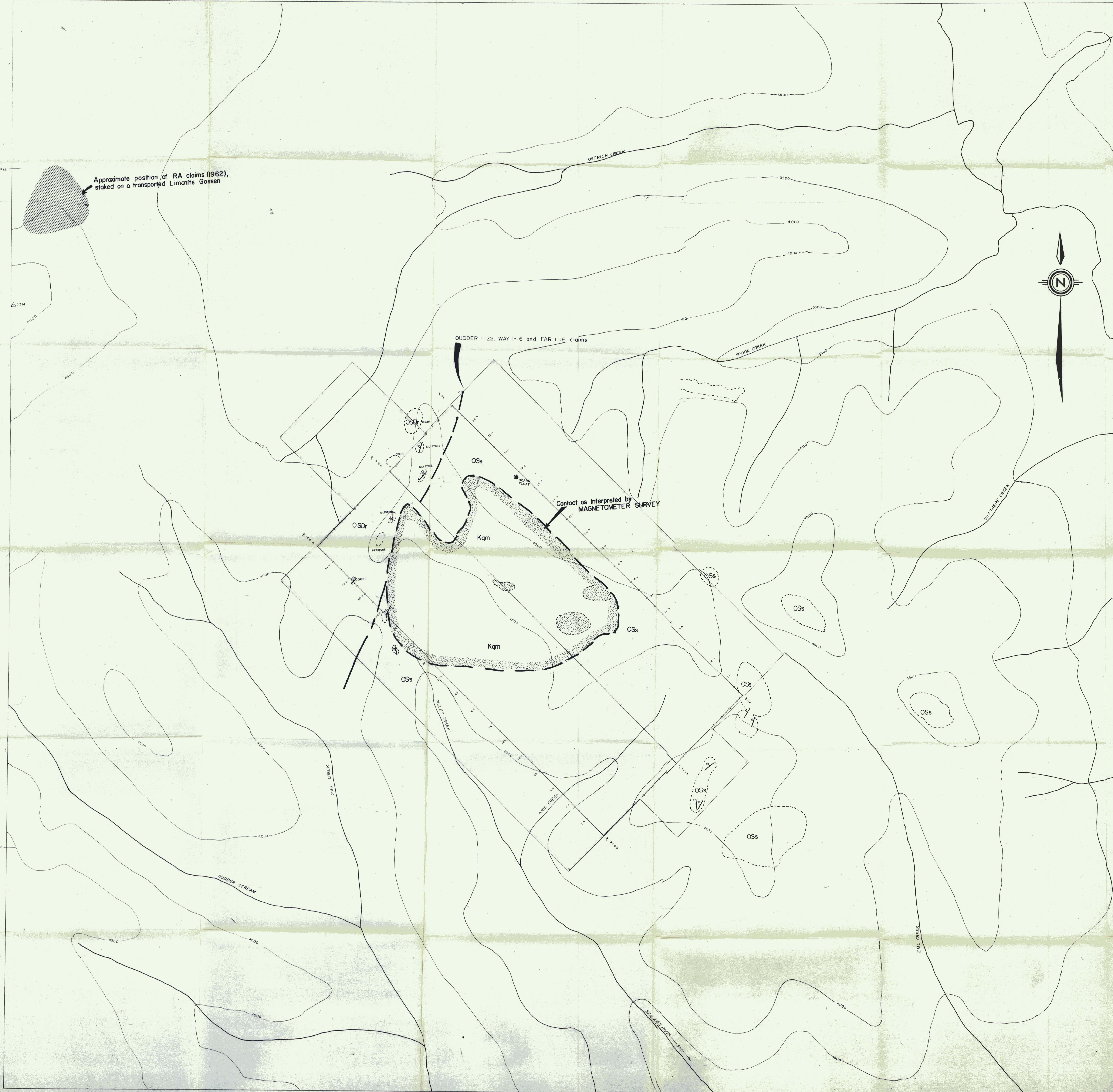
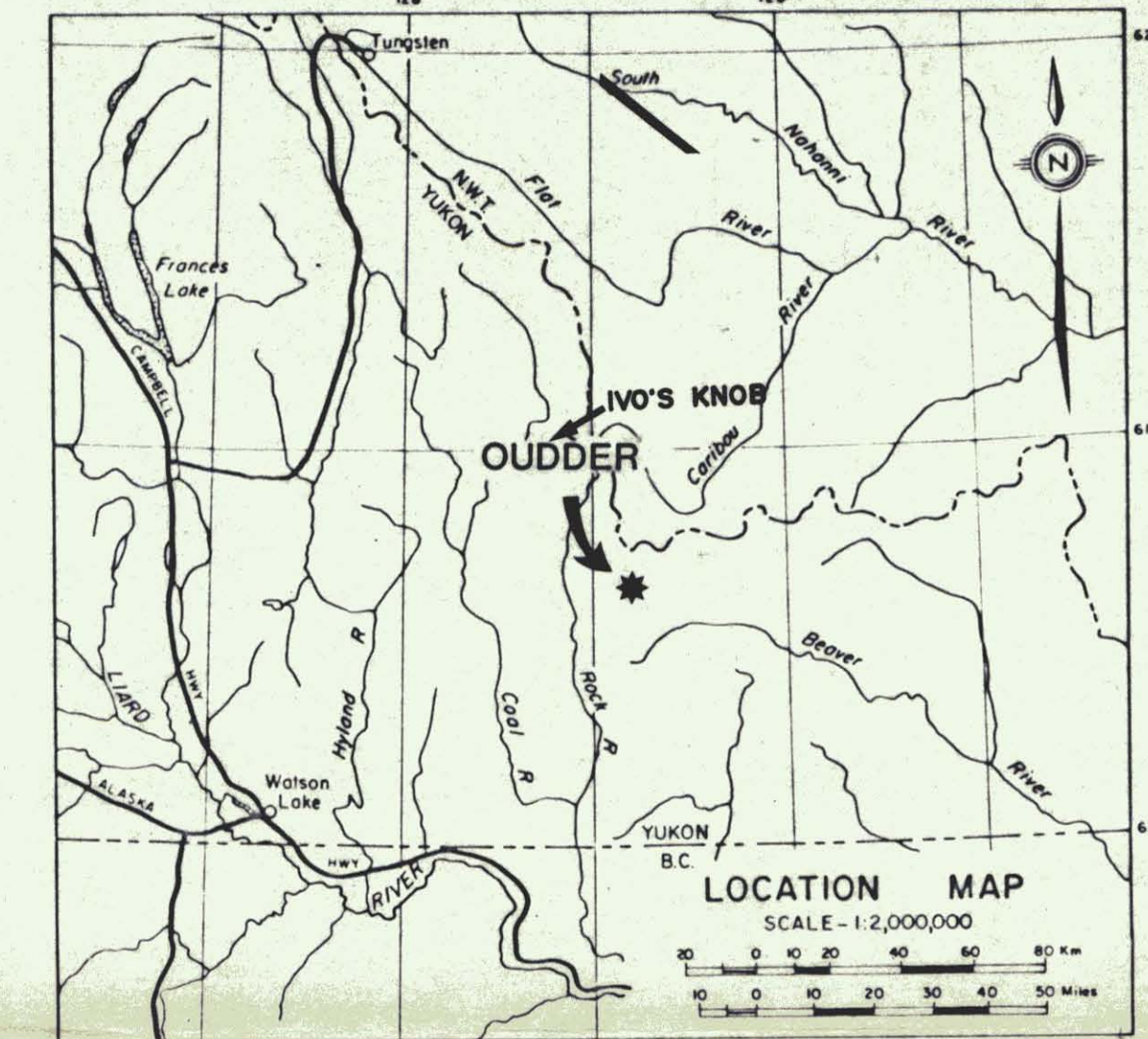
magnetic contouring, T.J. Miles,
as attached \$ 208.00

return shipping charges Barringer mag.
as attached 8.07

AMOUNT DUE \$ 216.07

John Deery
#1131

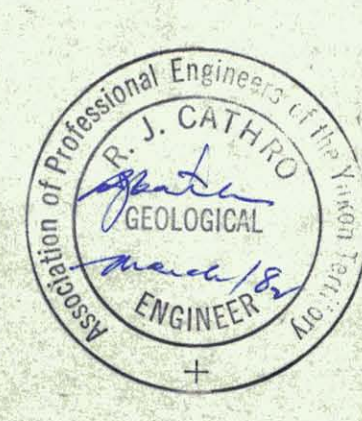
OK
Car

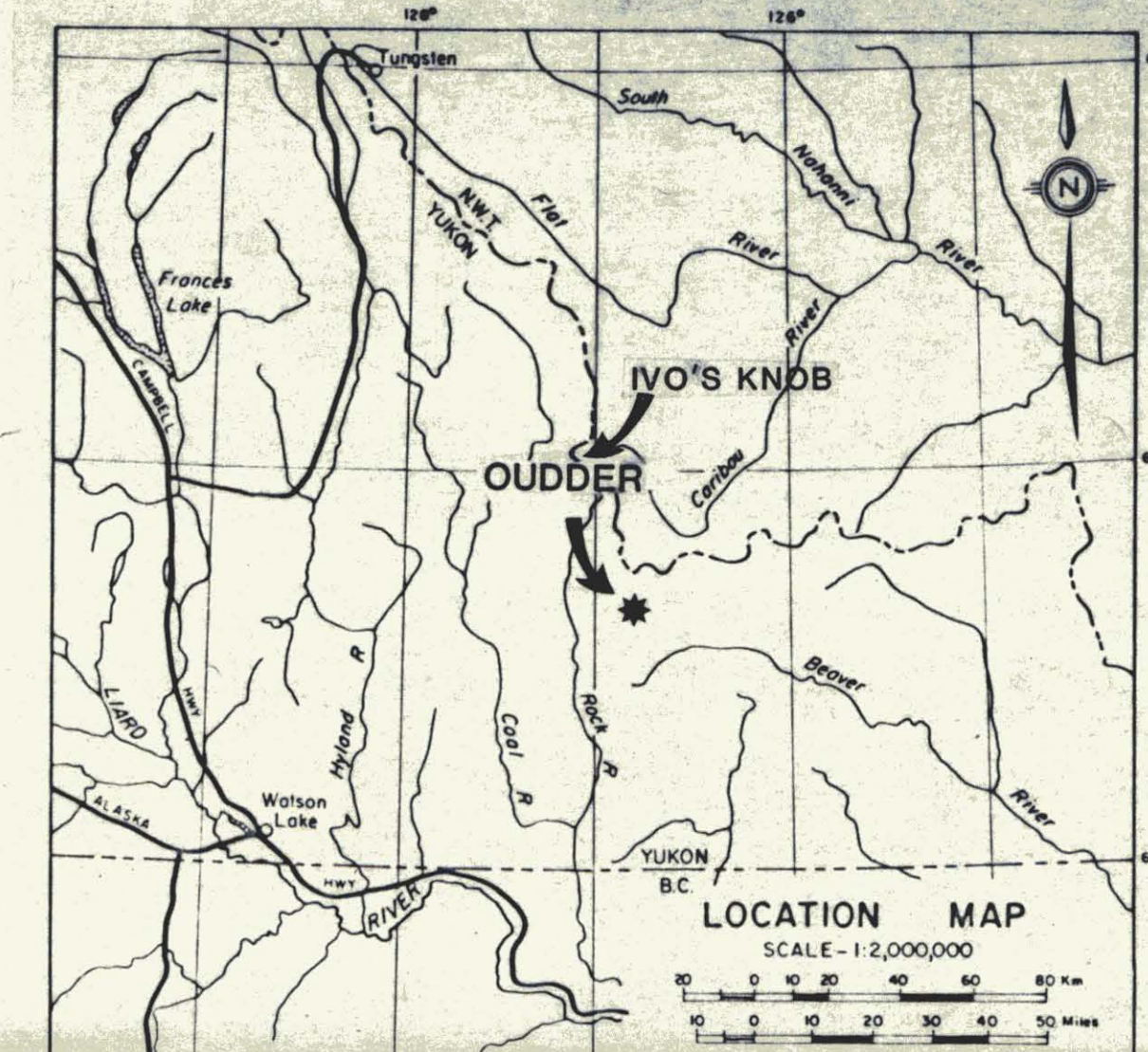


LEGEND

- CRETACEOUS**
- Kqm** OUDDER STOCK
Medium grained hornblende-biotite granodiorite
- UPPER ORDOVICIAN (?) , SILURIAN and LOWER DEVONIAN**
- OSDr** ROAD RIVER FORMATION
Black shale and siltstone, thin-bedded, black, argillaceous limestone; grey and black chert
- MIDDLE ORDOVICIAN**
- OSs** SUNBLOOD FORMATION
Dark and light grey dolomite; pink, mottled limestone; in part silty
- m/** Bedding
- - - - -** Geological Contact - mapped, assumed
- Outcrop
- Claim Boundary

091019
 FIGURE 3
 ARCHER, CATRO & ASSOCIATES (1981) LTD.
GEOLOGY
 OUDDER PROPERTY
 CUB JOINT VENTURE
 SCALE 1:110,000
 0 100 200 300 400 500 600 700 800 900 METERS
 0 100 200 300 400 500 METERS





LEGEND

★, ●, ▲ Silt, Sol, Pan, Silt/Pan sample location site (ppm WO_3 , gr. Scheelite, (gr. Fluorite))

[Shaded box]	>250 ppm WO_3
[Shaded box]	100-249 ppm WO_3
[Shaded box]	50-99 ppm WO_3
[Shaded box]	25-49 ppm WO_3
[Shaded box]	10-24 ppm WO_3
[Shaded box]	<10 ppm WO_3
[Dashed line]	Claim boundary

091019

FIGURE 4

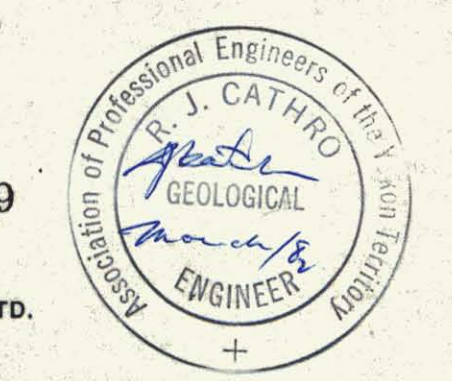
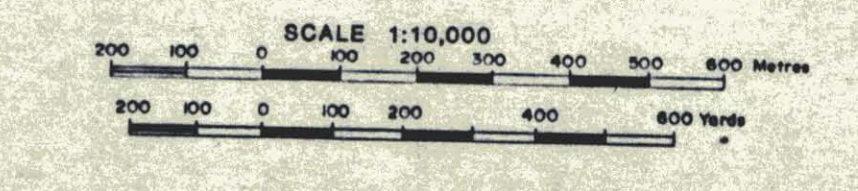
ANCHOR, CATHRO & ASSOCIATES (1981) LTD.

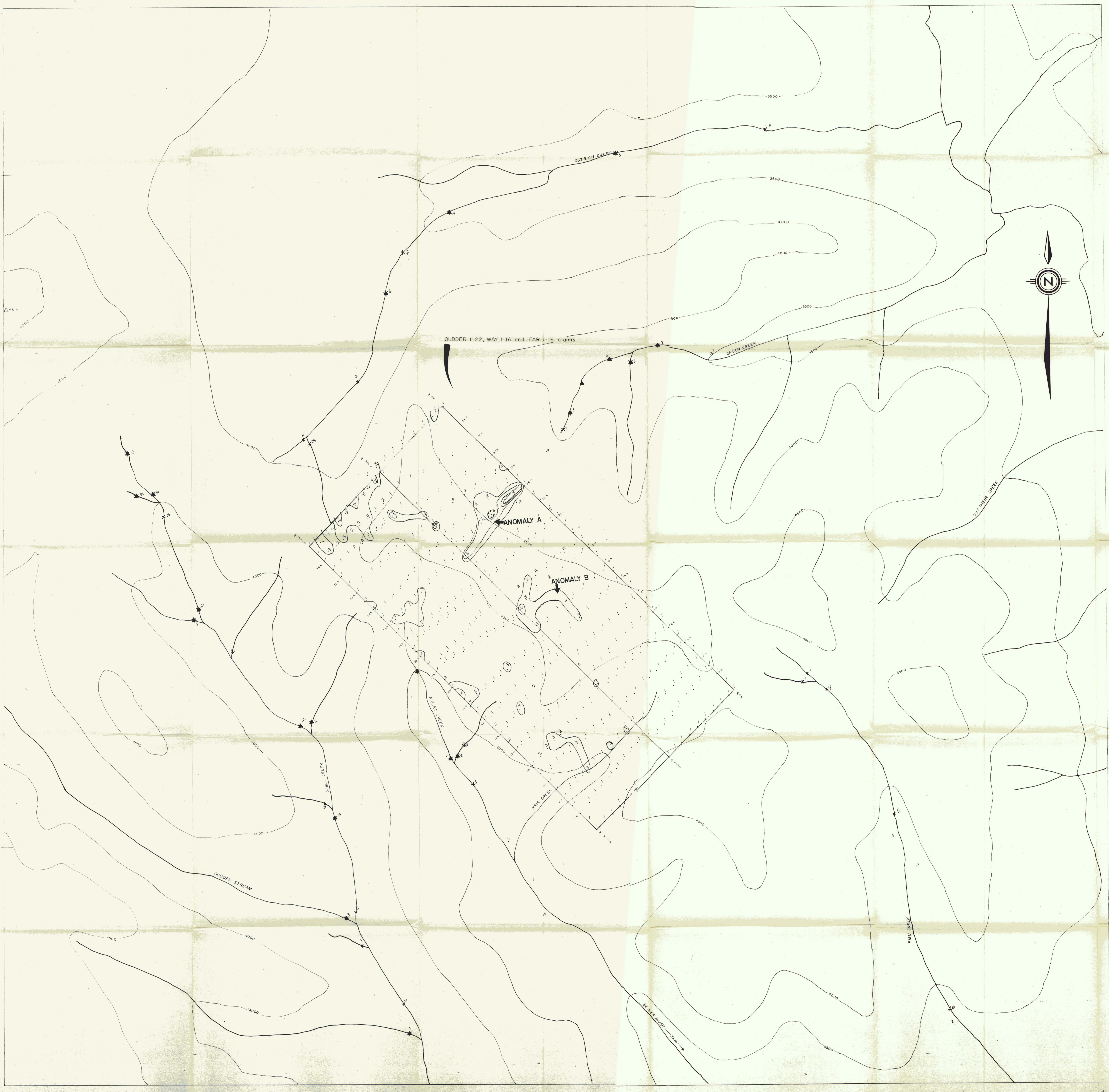
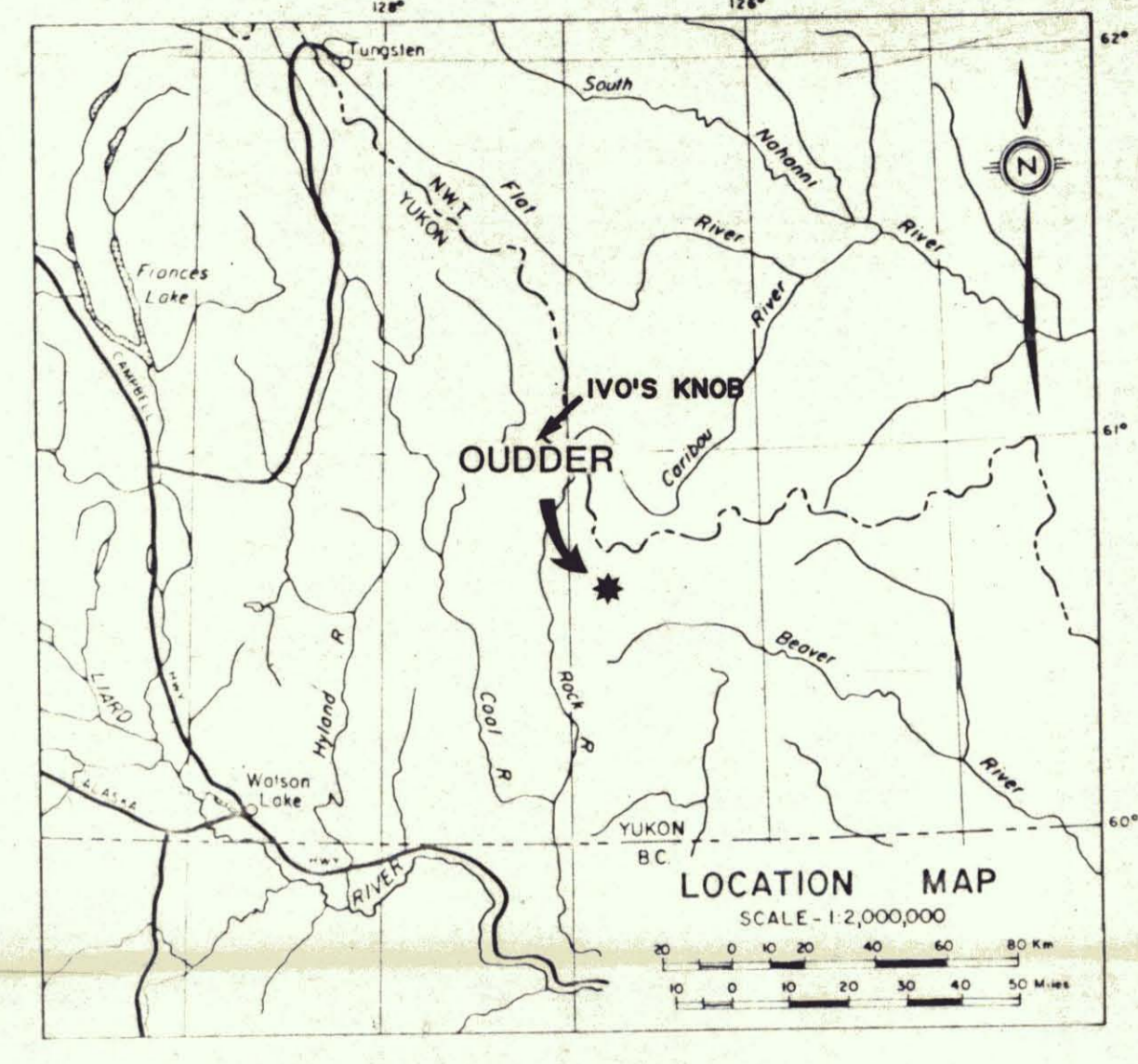
TUNGSTEN

GEOCHEMISTRY

OUDDER PROPERTY

CUB JOINT VENTURE





LEGEND

- ▲, * Soil, Silt, Pan, Silt/Pan sample location site, ppm Mo
- +11 ppm Mo
- 6-10 ppm Mo
- 3-5 ppm Mo
- -3 ppm Mo
- claim boundary

091019

FIGURE 5

ARCHER, CATHRO & ASSOCIATES (1981) LTD.

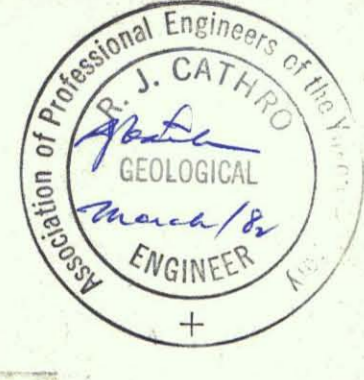
**MOLYBDENUM
GEOCHEMISTRY**

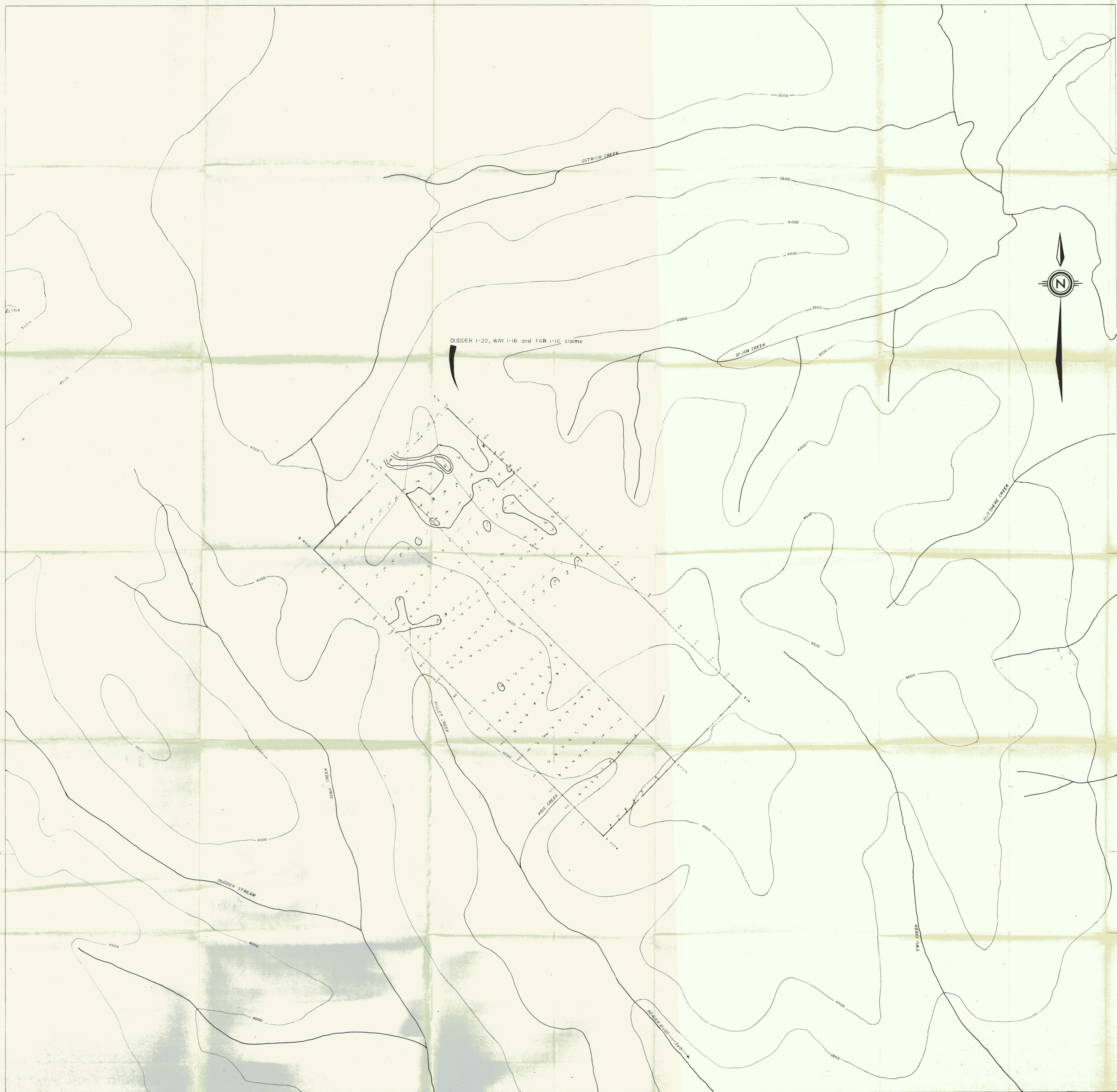
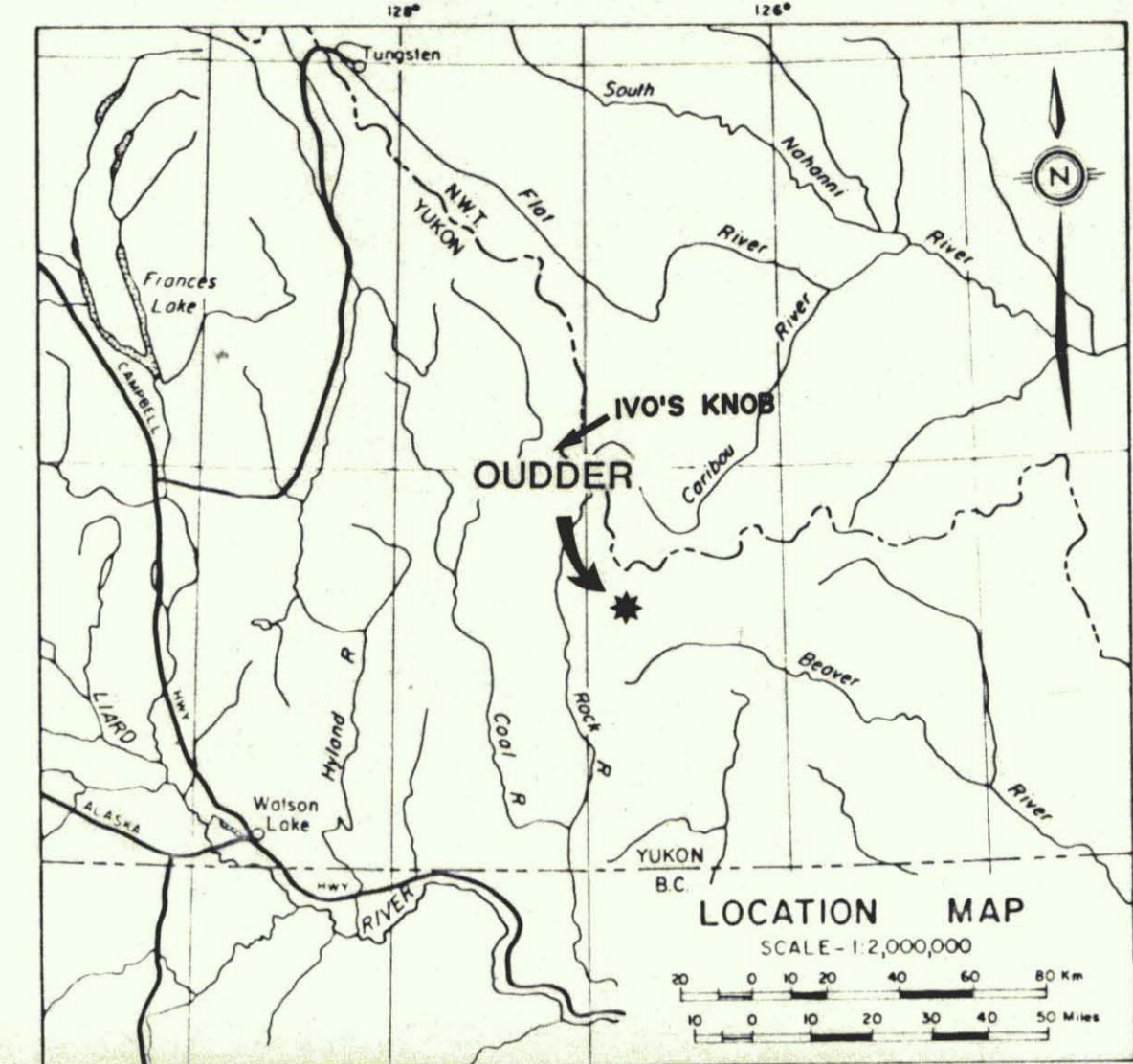
OUDDER PROPERTY
CUB JOINT VENTURE

SCALE 1:10,000

0 200 400 600 800 METERS

0 200 400 600 FEET



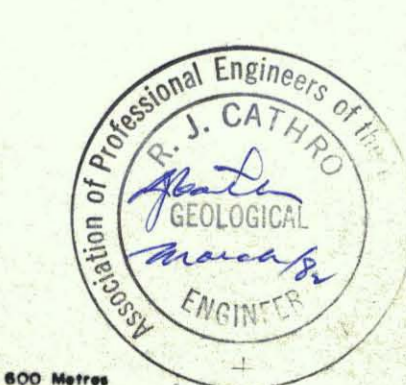


LEGEND

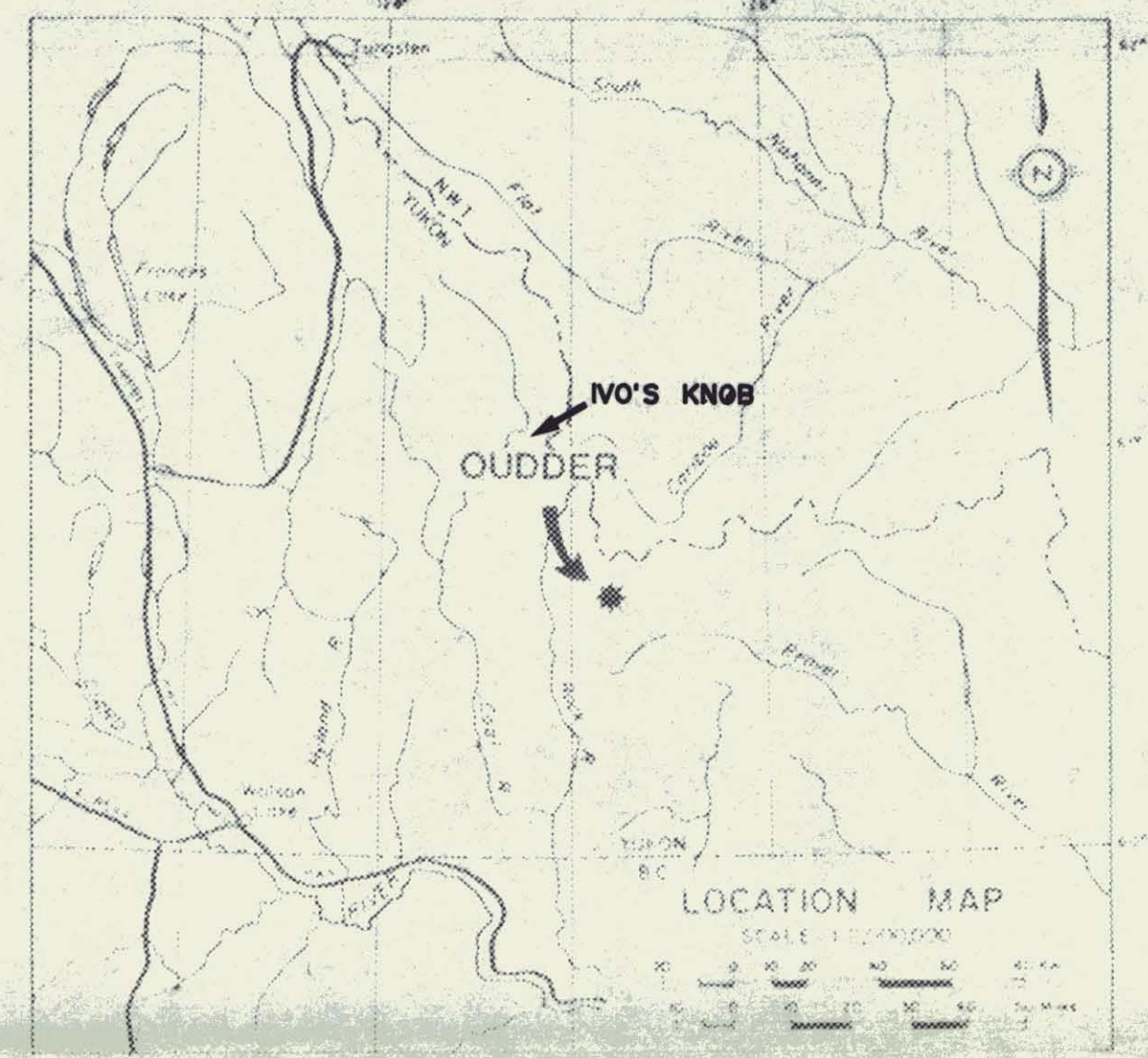
[Shaded box]	+250 ppb Au
[Light shaded box]	100-249 ppb Au
[Medium shaded box]	50-99 ppb Au
[Dark shaded box]	25-49 ppb Au
[Lightest shaded box]	10-24 ppb Au
[White box]	<10 ppb Au
[Dashed line]	Claim boundary
[Small dot]	Soil sample location

FIGURE 6
ANCHER, CATHRO & ASSOCIATES (1981) LTD.
GOLD
GEOCHEMISTRY
OUDDER PROPERTY
CUB JOINT VENTURE

SCALE 1:10,000



MAP# 95-D-101/291019



OUDDER 1-22, WAY 1-16 and FAR 1-16 claims



GEOPHYSICAL LEGEND

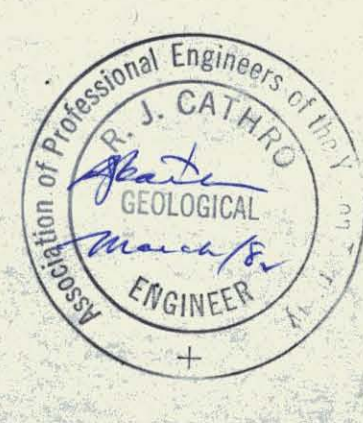
[Symbol]	Greater than 68,000 gammas
[Symbol]	67,000 to 67,999 gammas
[Symbol]	66,000 to 66,999 gammas
[Symbol]	65,000 to 65,999 gammas
[Symbol]	64,000 to 64,999 gammas
[Symbol]	63,000 to 63,999 gammas
[Symbol]	62,000 to 62,999 gammas
[Symbol]	61,000 to 61,999 gammas
[Symbol]	60,000 to 60,999 gammas
[Symbol]	59,000 to 59,999 gammas
[Symbol]	Less than 58,999 gammas

Base Value : 59,100 gammas
 Instruments : Geometrics G816 Portable Magnetometer
 Barringer Research GM22
 Basemag
 CHG 18-10 Base Recorder
 Operator : K. Opsetnoen
 For
 Archer, Cathro & Associates (1981) Ltd.
 CUB JOINT VENTURE
 By
 M.A. Barclay
 Exploration Services Ltd.
 July 1981

LEGEND

[Symbol]	CRETACEOUS
[Symbol]	OUDDER STOCK Medium grained hornblende-biotite granodiorite
[Symbol]	UPPER DEVONIAN (L), SILURIAN, and LOWER DEVONIAN
[Symbol]	ROAD RIVER FORMATION Black shale and siltstone, thin-bedded, black, argillaceous limestone, grey and black chert
[Symbol]	MIDDLE DEVONIAN
[Symbol]	SUNLORD FORMATION Dark and light grey dolomite, plat, mottled limestone, in part silty
[Symbol]	bedding
[Symbol]	Geological Contact - mapped, assumed
[Symbol]	Outcrop
[Symbol]	Claim Boundary

FIGURE 7
 ARCHER, CATRO & ASSOCIATES (1981) LTD.
MAGNETOMETER SURVEY
 OUDDER PROPERTY
 CUB JOINT VENTURE

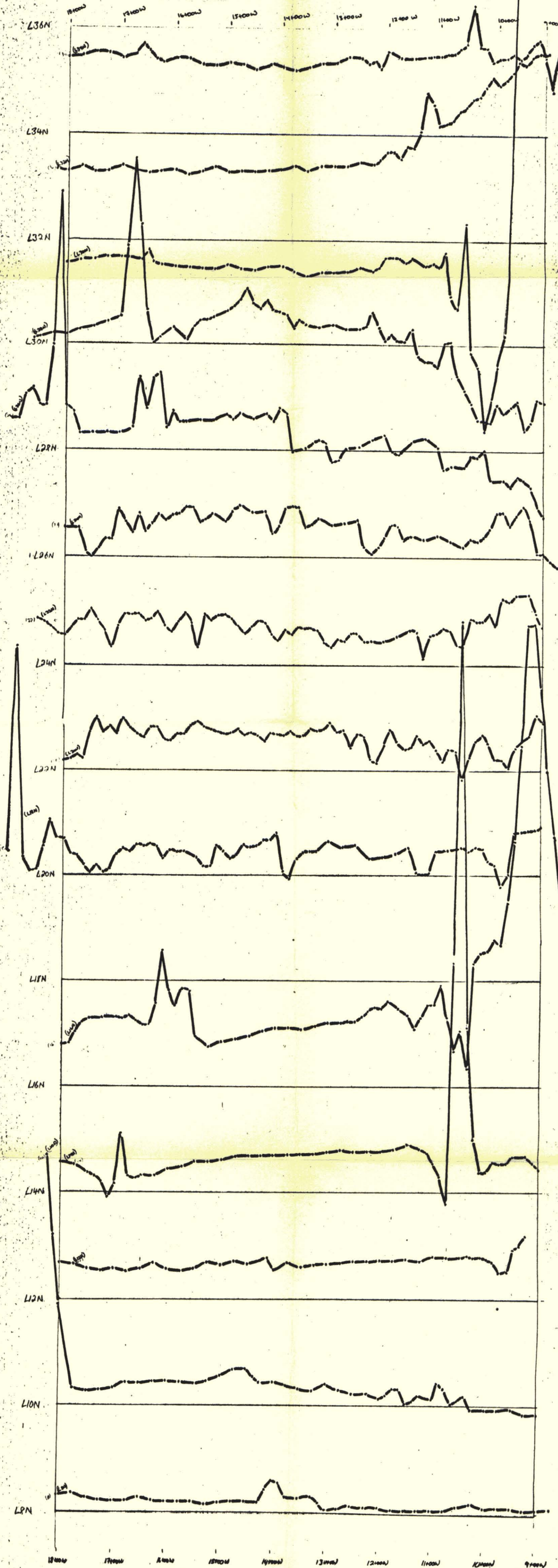


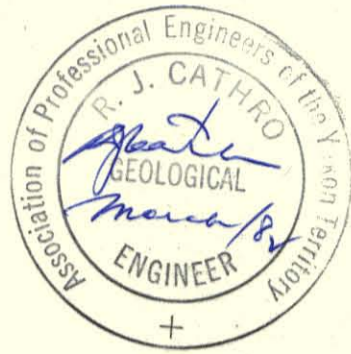
0910.9



091019

Figure 8 - Oudder Grid





091019

54

