



REPORT

on

GEOLOGY and GEOCHEMICAL SURVEYS

Conducted

June 16 - 30, 1982

JT 1 - 8 CLAIMS YA 67333-40

Watson Lake M.D.

Claim Sheet 95D - 7

Lat. $60^{\circ} 17' N.$ - Long. $126^{\circ} 35' W.$

091079

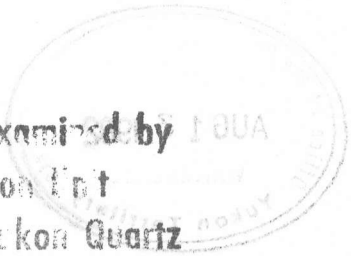
Date: August 5, 1982

R.H. Seraphim, Ph.D., P.Eng.

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 \$ 4,000 -

R. Watson

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



091079

Date: August 5, 1963 R.H. Seraphim, D.D., F.R.S.



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) <u>R. H. SERAPHIM</u>	Occupation <u>Engineer</u>
(Postal Address) <u>316-470 Granville St Vancouver B.C. V6C1Y5</u>	

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)

situated at Spruce Creek Claim Sheet No. 95-D-7
in the Watson Lake Mining District, to the value of at least \$4,000.00
dollars, since the 22nd day of September 1982 ^{Rev.}

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

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

J. T. 1 to 8. YA 67333 to 67340.

5 years each.

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.)

Geology and Biochemical Surveys. conducted
June 16-30, 1982. - see accompanying report.

Sworn before me at Watson Lake
this 10th day of August 1982
R. H. Seraphim
Notary Public

R. H. Seraphim
Applicant

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ILLUSTRATIONS

CLAIM MAP	(1 inch = 4 miles)	1:250,000
CLAIM MAP	(1 inch = 2,667 ft.)	1:32,000
GEOLOGY AND GEOCHEMISTRY	(1 inch = 167 ft.)	1:2,000 Pocket

SUMMARY AND CONCLUSIONS

The JT claims were located to cover two brown ocher spring deposits that contain in the range of 10,000 ppm. (1%) zinc. The springs emerge from the valley floor of Spruce Creek, one at the pediment of a hillside that has outcrops of limestone, the other in thick forest one or two hundred meters from a hillside.

Reconnaissance geochemical survey along with detailed prospecting were completed in an attempt to determine if the zinc originates from a nearby mineralized body or bodies. The results are inconclusive.

INTRODUCTION

The ocher was observed by prospectors during a helicopter - supported program. The claims were located in September, 1981, and examined initially by the writer on June 17 and 18, 1982. Geological mapping and reconnaissance were supported by prospecting and geochemical reconnaissance completed by John Taylor, Alden Potter, and Harley Moorman during those days and in a continuing program.

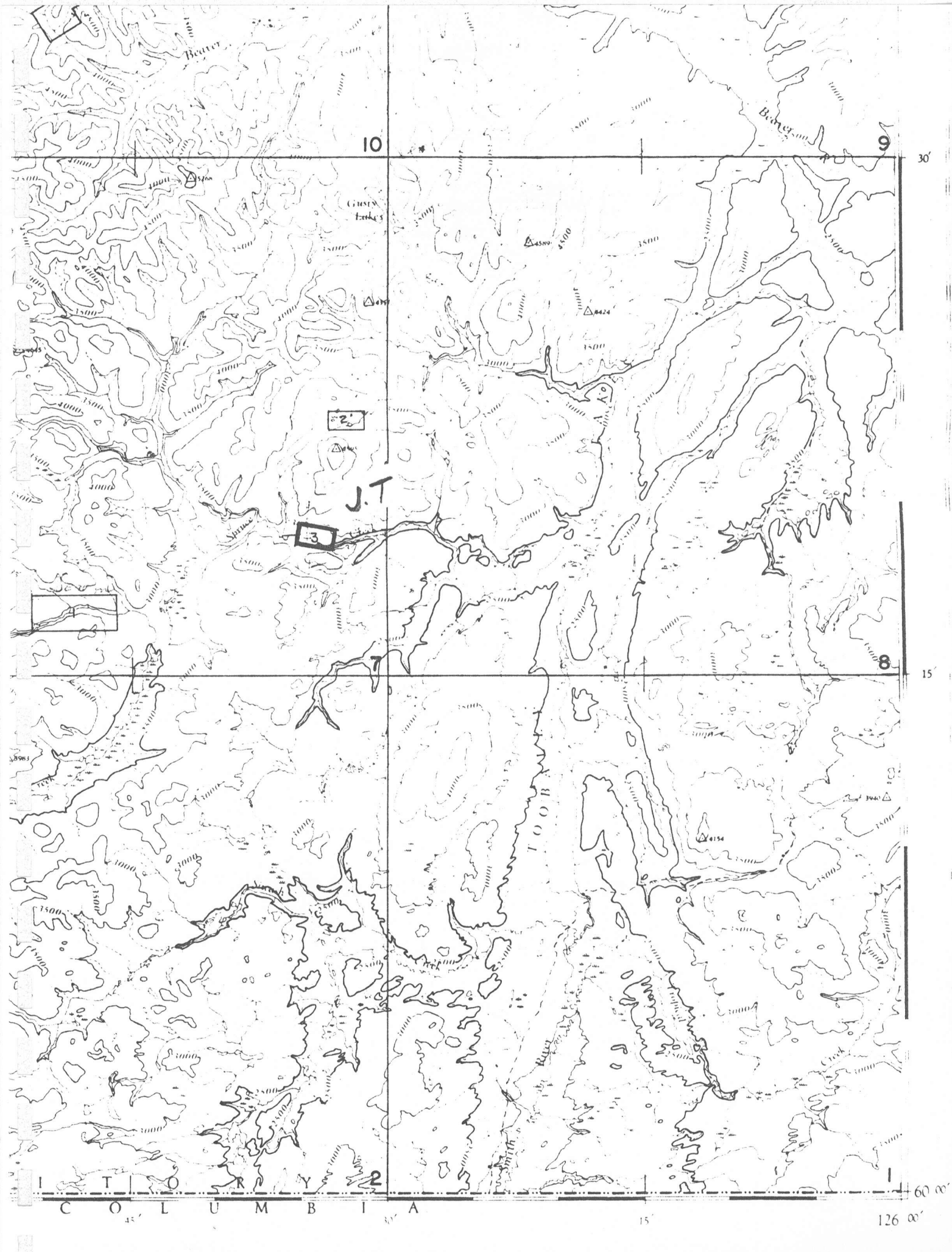
CLAIMS, LOCATION, ACCESS

The location is shown as Unit 3 on the accompanying 1 inch = 4 miles map and in more detail as JT 1 to 8 on the accompanying copy of the appropriate part of the claim map. Spruce Creek flows easterly through the southern part of the claims and drains into Toobally Lakes, ten miles easterly from the claims. The claims are listed as follows:

JT 1	-	YA 67333
JT 2	-	YA 67334
JT 3	-	YA 67335
JT 4	-	YA 67336
JT 5	-	YA 67337
JT 6	-	YA 67338
JT 7	-	YA 67339
JT 8	-	YA 67340

Recorded owner - D. Kronig - expiry 22 Sept./82

Access to date is via helicopter.



10

9

30'

2

3

J.T.

8

15'

TOOB

I T O R Y C O L U M B I A

45'

15'

126'

60'

FIELD AND ANALYTICAL PROCEDURES

Geological mapping and soil sampling were controlled by survey utilizing Topofil hip-chain and compass. Geological examination was limited to outcrops proximate to the other springs; geochemical survey was more widespread and included both stream silt (st.) and soil sampling along contours and claim lines. The boggy flat area between the two other springs, and to the south west of them is deduced to be underlain by gravels transported by Spruce Creek, thus sampling of it was believed to be of little value.

Samples were packaged in kraft paper envelopes and shipped to Chemex Laboratory in North Vancouver, B.C. The -80 mesh fraction was analyzed for zinc, copper, and lead by instruments involving perchloric-nitric acid extraction.

GEOMORPHOLOGY AND GEOLOGY

The hillsides to the north and east of the ocher springs rise with twenty to thirty degree slopes. Two drainages from the hillside, both with clear streams and without evidence of ocher or gossan, contain float of quartzite, black limestone, and shale, with minor grit and small-pebble conglomerate.

The outcrops examined near the southeastern gossan are all of grey to black limestone. The southeast most outcrop has a pronounced anticline - syncline fold pair. The outcrops to the north have shearing and brecciation. A few carbonate stringers are present. Sulphide mineralization observed includes a cluster of galena cubes a few millimeters in diameter in a quartz stringer in float from the stream depicted on the northwest part of the map included herewith.

Geological formations are listed on the following page, copied from Geological Survey Canada Map 11 - 1968 "Coal River". The ocher springs and claimed area are shown by the map to be located in Road River and on Besa formation.

LEGEND

- CEENOZOIC**
- PLEISTOCENE AND RECENT**
- 17 Unconsolidated glacial and alluvial deposits
- MESOZOIC**
- CRETACEOUS (?)**
- 16 Biotite-hornblende granodiorite, quartz monzonite, porphyritic hornblende-quartz diorite
- CARBONIFEROUS**
- 15 **MATTSON FORMATION:** grey, massive, even-grained sandstone; interbedded sandstone and dark grey shale; 15a, black slate and argillite, ribbon-banded black cherty argillite and porcellanite, bright green argillite
- DEVONIAN AND MISSISSIPPIAN**
- MIDDLE AND UPPER DEVONIAN AND MISSISSIPPIAN**
- 14 **BESA RIVER FORMATION;** black shale and argillite; brown and green shale and argillite; cherty argillite
- SILURIAN AND DEVONIAN**
- SILURIAN, LOWER AND MIDDLE DEVONIAN (COUVINIAN)**
- 13 Well-bedded, laminated grey dolomite; black, fetid dolomite; dolomite breccia; 13a, fine-grained, grey limestone; well-bedded dolomite; dolomite breccia; coarse-grained, vuggy, bioclastic dolomite; locally includes 12
- SILURIAN**
- LOWER SILURIAN**
- 12 **NONDA FORMATION:** black, fetid dolomite, in part cherty; grey dolomite; basal dolomitic siltstone and sandstone
- ORDOVICIAN, SILURIAN, AND DEVONIAN**
- UPPER ORDOVICIAN (?) SILURIAN AND LOWER DEVONIAN**
- 11 **ROAD RIVER FORMATION:** black shale and siltstone; thin-bedded, black, argillaceous limestone; grey and black chert
- ORDOVICIAN**
- MIDDLE AND/OR UPPER ORDOVICIAN**
- 10 Well-bedded siltstone, sandstone, dolomite and shale; may include 9
- MIDDLE ORDOVICIAN**
- 9 **SUNBLOOD FORMATION:** dark and light grey dolomite; pink, mottled limestone, in part silty; 9a, massive, green, amygdaloidal volcanics

PALEOZOIC

- ORDOVICIAN**
- MIDDLE AND/OR UPPER ORDOVICIAN**
- 10 Well-bedded siltstone, sandstone, dolomite and shale; may include 9
- MIDDLE ORDOVICIAN**
- 9 **SUNBLOOD FORMATION:** dark and light grey dolomite; pink, mottled limestone, in part silty; 9a, massive, green, amygdaloidal volcanics
- CAMBRIAN AND ORDOVICIAN**
- MIDDLE (?) AND UPPER CAMBRIAN AND LOWER ORDOVICIAN**
- 8 Wavy banded, silty limestone; argillaceous limestone; 8a, calcareous phyllite and phyllitic limestone
- CAMBRIAN**
- LOWER CAMBRIAN**
- 7 Vesicular, blocky, green volcanic flows and breccias
- 6 Buff, orange and grey weathering dolomite; sandy dolomite; dolomitic sandstone
- 5 Grey, fine-grained, fossiliferous, silty limestone; argillaceous limestone; white, crypto-grained limestone; brown and grey siltstone and calcareous siltstone; minor white and brown, fine-grained sandstone in upper part; includes map-unit 6 west of Rock River
- 4 4a, purple, maroon, white, and cream, locally feldspathic, quartzitic sandstone; maroon, tan, grey, and green, platy siltstone and shale; 4b, varicoloured quartzitic sandstone; arkosic, gritty sandstone; silty dolomite; dolomite; bioclastic limestone; feldspar-quartz-pebble conglomerate; 4c, dull grey and green siltstone, argillite, and phyllite; minor gritty sandstone and conglomeratic sandstone
- HADRYNIAN AND/OR LOWER CAMBRIAN**
- 3 Vesicular and amygdaloidal, blocky, green, purple, volcanic flows and breccias; minor buff dolomite; 3a, amygdaloidal, green volcanic rocks; 3b, maroon shale
- 2 2a, phyllite, slate, fine-grained quartzite, siltstone, argillite; 2b, laminated dark grey slate and argillite; 2c, platy, black, argillaceous limestone, grey slate; 2d, limestone; locally includes fine-grained biotite schist

GEOCHEMISTRY

The results for $\frac{\text{Zn.}}{\text{Cu. - Pb.}}$ in ppm. are recorded on the accompanying map. (pocket)

COSTS

Helicopter 8.7 hours @ \$240/hour - \$2,088.00

Personnel -

R.H. Seraphim, Ph.D., P.Eng.
June 17 - 18 = 2 days - 600.00
(316-470 Granville St., Vancouver, B.C.)

J. Taylor - prospector
June 17, 18, 19 = 3 days @ \$90/day - 270.00
(Box 191, Atlin B.C. VOW 1A0)

A. Potter - prospector
June 17 - 24 = 8 days @ \$100/day - 800.00
(6708 Kneale Place, Burnaby, B.C.
V5B 2Z2)

H. Moorman - assistant
June 17 - 24 = 8 days @ \$60/day - 240.00
(6708 Kneale Place, Burnaby, B.C.
V5B 2Z2)

Compiling report and maps - 300.00

Field Supplies @ \$25/man day - 450.00

Assays - 108.69

TOTAL - \$4,856.69



Quasar Helicopters Ltd

HELICOPTER CHARTER SERVICE

INVOICE

Invoice Number

82240

Invoice Date

28 June 1982

Customer Number

010109000

Customer Order Number

TO: *B.G. Iles*

July 5/82

from
R.H. Seraphin Engineering Ltd.
316-470 Granville Street
Vancouver, B.C.
V6C 1V5

Helicopter Type
Bell 47G3

Registration
C-FYHN

ATC Area
9.0

Period/Order Date
13 - 20 June 1982

Description

Amount

Flying Hours: 27.3 @ \$240

\$ 6552.00

TOTAL

\$ 6552.00

*Applicable to J.T. claims 6-6 hrs @ \$240 =
(see following pages)*

\$ 1584.00

Approved
[Signature]

QUASAR AVIATION LTD.



VANCOUVER
150 - 10451 SHELLBRIDGE WAY
RICHMOND, B.C. V6X 2W8
(604) 270-9696 Telex: 04-357633

CALGARY
460 McTAVISH ST. N.E.
CALGARY, ALTA. T2E 7G5
(403) 230-1331 Telex: 03-821901

No **117682**

FLIGHT REPORT

Date: **11** Day **11** Month **82** Year **Be/47**

A/C Regn.: **C-441N**

Pilot: **1: Belong** Empl. No.: **2000**

Pilot: **2:** Empl. No.: **1111**

Engr. **1:** Empl. No.: **1111**

Engr. **2:** Empl. No.: **1111**

ATC Area: **910** Contract Type: Hourly M - Monthly D - Daily Min. O - Other

Customer Name and Address

Scraphim Eng

Authorization No.: **11111111111111111111111111111111**

Customer No.: **010109000** Contract No.: **11111111111111111111111111111111**

Location	Operation	Time-Off	Time-Down	Flying Hours
Labo lake	Pick out Geochem Crews (Beaver)	09:10	09:40	0.5
Beaver	Recon Gassin → Return Labo	10:20	10:55	0.6
Labolake	Geochem Crew → DK Claims → Reven	11:55	14:25	0.9
Labolake	Pick up Crew & Reven with Recon	16:30	17:35	1.1

FUEL & OIL SUPPLIED BY: Quasar Charterer Litre Gal. litres @ \$ **11111111** = \$ **11111111**

Total Revenue Hours **11** Non Revenue Hours **11**

By the chartering of the noted services or the signing of this Flight Report, the Charterer acknowledges that all conditions associated with this charter shall be as set out in the Tariff filed with the A.T.C., which is available for examination at the office of Quasar Aviation Ltd.

Item	Extra Charge or Adjust.	Amount	Remarks:

Charterer's Signature: **Donald King** Pilot's Signature: **Belong**



Quasar Helicopters Ltd

HELICOPTER CHARTER SERVICE

INVOICE

Invoice Number

82269

Invoice Date

30 June 1982

Customer Number

010109000

Customer Order Number

TO:

R.H. Seraphim Engineering Ltd.
316 - 470 Granville Street
Vancouver, B.C.
V6C 1V5

Helicopter Type

Bell 47F3B

Registration

C-FYHN

ATC Area

9.0

Period/Order Date

21 - 27 June 1982

Description	Amount
Flying Hours: 19.2 @ \$240	\$ 4608.00
TOTAL	\$ 4608.00
<i>Applicable to J.T. Claims - 2.1 hrs @ 240 = (see following pages)</i>	<i>\$ 504.00</i>
<i>O.K. sent to R.S. [unclear]</i>	

Terms of payment are net 30 days from date of invoice, interest at 2% per month (being 24% per annum), will be charged on overdue accounts.

QUASAR AVIATION LTD.

= 533-3994

112-853-1215

No. **110000**



VANCOUVER

150 - 10451 SHELLBRIDGE WAY
RICHMOND, B.C. V6X 2W8
(604) 270-9696 Telex: 04-357633

CALGARY

460 McTAVISH ST. N.E.
CALGARY, ALTA. T2E 7G5
(403) 230-1331 Telex: 03-821901

FLIGHT REPORT

Date: **24** Day **06** Month **82** Year **Bella 47**

A/C Regn.: **C-EN111**

Pilot 1: **Belongs** Empl. No.: **0000**

Pilot 2: _____ Empl. No.: **0000**

Engr. 1: _____ Empl. No.: **0000**

Engr. 2: _____ Empl. No.: **0000**

Customer Name and Address

Seraphim Eng

Authorization No.:

[Grid of authorization numbers]

Customer No.:

010109000

Contract No.:

[Grid of contract numbers]

ATC Area:

90

Contract Type:

H - Hourly

D - Daily Min.

M - Monthly

O - Other

Location

Operation

Time-Off

Time-Down

Flying Hours

Location	Operation	Time-Off	Time-Down	Flying Hours
Lobo Lake	Supply Run to Lobo #2	08:10	08:45	0.35
Lobo Lake	Set out Crew Lobo #1	09:15	09:40	.25
Lobo Lake	Return 1 Crew to Camp	12:20	12:35	.15
Lobo Lake	Return to Base	13:15	13:25	.10
Lobo Lake	Pick up D.K. @ Lobo #1	17:35	18:00	.25

FUEL & OIL SUPPLIED BY

- Quasar
- Charterer
- Litre
- Gal.

litres @ \$ [Grid] = \$ [Grid]

Total Revenue Hours

[Grid]

Non-Revenue Hours

[Grid]

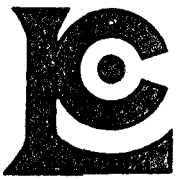
Item	Extra Charge or Adjust.	Amount

Remarks: [Redacted]

By the chartering of the noted services or the signing of this Flight Report, the Charterer acknowledges that all conditions associated with this charter shall be as set out in the Tariff filed with the A.T.C., which is available for examination at the office of Quasar Aviation Ltd.

Charterer's Signature: **Ronald Koning**

Pilot's Signature: **[Signature]**



CHEMEX LABS LTD.

212 BROOKSBANK AVE
 NORTH VANCOUVER, B.C.
 CANADA V7J 2C1
 TELEPHONE: (604) 984-0222
 TELEX: 043-5259

• ANALYTICAL CHEMISTS • GEOCHEMISTS • REGISTERED ASSAYERS

*** INVOICE ***

To : SERAPHIM, DR. R. H.

Invoice # : I8211535

316 - 470 GRANVILLE STREET
 VANCOUVER, B.C.
 V6C 1V5

Date : 25-JUN-82
 P.O. # : NONE
 Project

Invoice for analytical work reported on certificate(s) A8211535-001

Quantity	Analysed for code description	unit price	amount
35	002 - Cu ppm		
	004 - Pb ppm		
	005 - Zn ppm	3.40	119.00

Sample preparation and other charges :

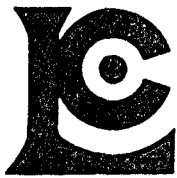
34	201 - soil + sediment -80 mesh	0.60	20.40
1	203 - -35 mesh sieve + ring	1.50	1.50

TOTAL \$ 140.90

Please pay this amount ----> \$ 140.90

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

Applicable to J.T. 27/35 x 140.90 \$ = 108.69



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

CERTIFICATE OF ANALYSIS

TO : SERAPHIM, DR. R. H.

316 - 470 GRANVILLE STREET
VANCOUVER, B.C.
V6C 1V5

CERT. # : A8211535-001
INVOICE # : I8211535
DATE : 25-JUN-82
P.O. # : NONE

Sample description	Prep code	Cu ppm	Pb ppm	Zn ppm			
RHS 1	201	22	30	580	--	--	--
S 1	201	53	17	495	--	--	--
S 2	201	35	20	400	--	--	--
S 3	201	33	17	510	--	--	--
S 4	201	35	15	350	--	--	--
S 5	201	37	15	475	--	--	--
S 6	201	34	21	480	--	--	--
S 7	201	58	16	350	--	--	--
S 8	201	15	13	80	--	--	--
JT CLAIMS 0+00E	201	16	9	275	--	--	--
JT CLAIMS 2+00E	203	13	13	140	--	--	--
JT CLAIMS 4+00E	201	17	14	215	--	--	--
JT CLAIMS 6+00E	201	20	12	165	--	--	--
JT CLAIMS 8+00E	201	12	11	130	--	--	--
JT CLAIMS 10+00E	201	15	16	170	--	--	--
JT CLAIMS 12+00E	201	15	14	145	--	--	--
JT CLAIMS 14+00E	201	18	11	160	--	--	--
JT CLAIMS 38+00E	201	5	2	95	--	--	--
JT CLAIMS 40+00E	201	11	38	380	--	--	--
JT CLAIMS 42+00E	201	10	25	345	--	--	--
JT CLAIMS 44+00E	201	9	15	600	--	--	--
JT CLAIMS 46+00E	201	8	13	405	--	--	--
JT CLAIMS 48+00E	201	6	14	680	--	--	--
JT CLAIMS 50+00E	201	15	12	460	--	--	--
JT CLAIMS 52+00E	201	8	15	1400	--	--	--
JT CLAIMS 54+00E	201	30	10	710	--	--	--
JTCLAIM 56+00E#1	201	7	10	950	--	--	--
JTCLAIM 56+00E#2	201	50	9	980	--	--	--
JTCLAIMS 58+00E	201	9	9	780	--	--	--
JT CLAIMS 60+00E	201	15	8	300	--	--	--
SL-1 YA 67338	201	15	10	600	--	--	--
SL-2 YA 67338	201	20	9	1650	--	--	--
ST-1 YA 67338	201	22	8	110	--	--	--
K 201	201	18	25	560	--	--	--
K 202	201	24	15	280	--	--	--

- John Taylor sent J.T
- John Taylor sent J.T
- John Taylor sent J.T

Hart Schler

Certified by



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

CERTIFICATE OF ANALYSIS

TO : SERAPHIM, DR. R. H.

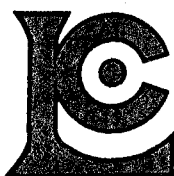
316 - 470 GRANVILLE STREET
VANCOUVER, B.C.
V6C 1V5

CERT. # : A8211536-001-A
INVOICE # : 18211536
DATE : 25-JUN-82
P.O. # : NONE

Sample description	Prep code	Cu ppm	Pb ppm	Zn ppm			
J.T. IMS <i>black line</i>	205	21	5	15	--	--	--
JTCLAIM 2ndGROSSAM	205	8	1	>10000	-J.T	--	--
E.S.I BIG SPRING <i>Enics</i>	205	6	1	1250	--	--	--



Certified by *Hart Bichler*



CHEMEX LABS LTD.

212 BROOKSBANK AVE
NORTH VANCOUVER, B.C.
CANADA V7J 2C7

TELEPHONE: (604) 984-0227
TELEX: 043-52597

• ANALYTICAL CHEMISTS

• GEOCHEMISTS

• REGISTERED ASSAYERS

*** INVOICE ***

To : SERAPHIM, DR. R. H.

Invoice # : I8211535

316 - 470 GRANVILLE STREET
VANCOUVER, B.C.
V6C 1V5

Date : 25-JUN-82
P.O. # : NONE
Project

Invoice for analytical work reported on certificate(s) A8211535-001

Quantity	Analysed for code description	unit price	amount
35	002 - Cu ppm		
	004 - Pb ppm		
	005 - Zn ppm	3.40	119.00

Sample preparation and other charges :

34	201 - soil + sediment -80 mesh	0.60	20.40
1	203 - -35 mesh sieve + ring	1.50	1.50

TOTAL \$ 140.90

Please pay this amount ----> \$ 140.90

TERMS -- NET 30 DAYS

2.0 % per month (24 % per annum) charged on overdue accounts



MEMBER
CANADIAN TESTING



WATSON LAKE FOODS LIMITED

W.L #3b

Groceries - Fresh Meats - Produce

P.O. BOX 208 WATSON LAKE, YUKON
Y0A 1C0

Phone 536-2230

Phone 536-2250

STATEMENT OF ACCOUNT

Name R. H. Seraphin, Engineering
 Address 316-470 Mainville
Whitehorse, B.C. V6C 1V5

DATE	INV. NO.	CHARGE	CREDIT	BALANCE
June 4/82	53260	75.23 /	-	75.23
14	53260	55.89 /	-	131.12
15	53370	220.99 /	-	352.11
15	53257	22.58 /	-	374.69
15	53266	244.52 /	-	619.21
15	53368	113.18	-	732.39
15	53481	216.84 /	-	949.23
15	53479	568.64 /	-	1517.87
15	53480	241.61 /	-	1759.48
15	53265	198.71 /	-	1958.19
15	53482	261.89 /	-	2220.08
15	53467	34.32 /	-	<u>2254.40</u>

J.T. in part

THIS IS A SUMMARY OF YOUR ACCOUNT

Current	14 Days	28 Days	42 Days	Over 42 Days

Account due when rendered
 1% per month charged on overdue accounts

R. H. SERAPHIM ENGINEERING LIMITED
GEOLOGICAL ENGINEERING


316 - 470 GRANVILLE STREET
VANCOUVER, B.C. V6C1V5

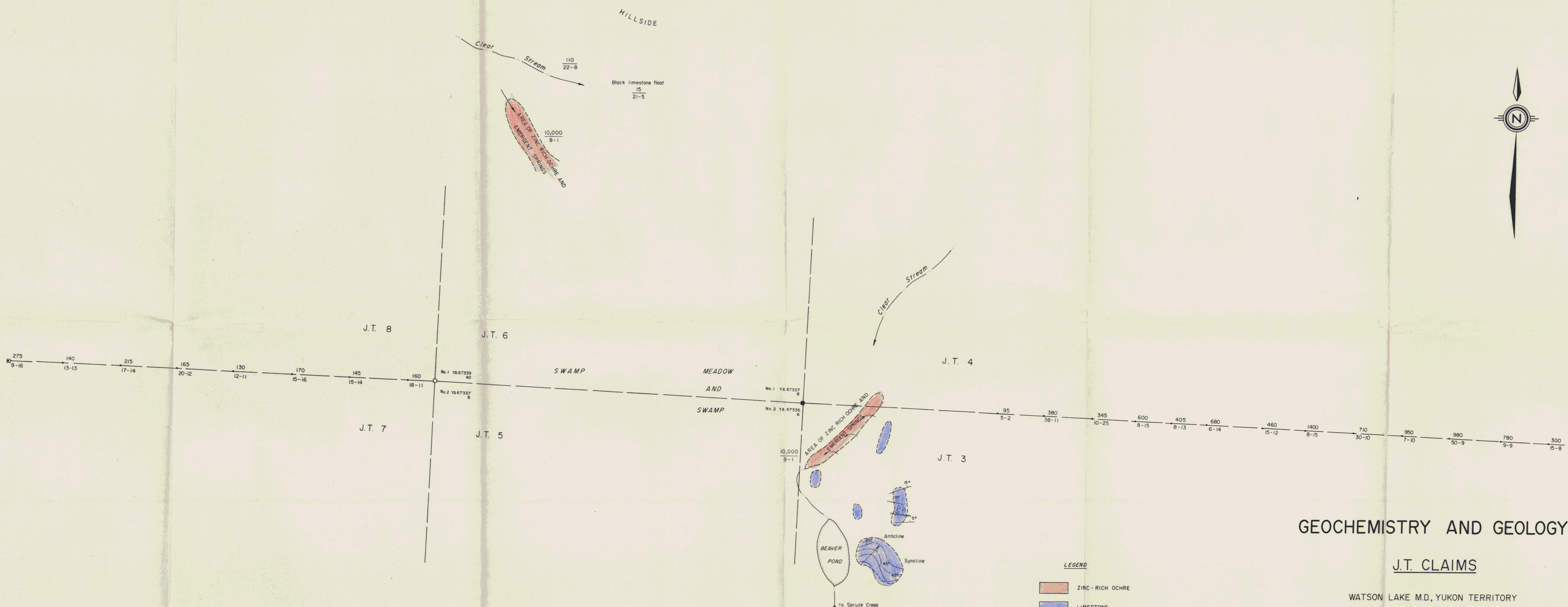
STATEMENT OF QUALIFICATIONS

I, Dr. R.H. Seraphim, of the City of Vancouver, Province of British Columbia, hereby certify as follows:

- (1) I am a geological engineer, residing at 4636 West 3rd Avenue, Vancouver, B.C., and with office at 316 - 470 Granville Street, Vancouver, B.C.
- (2) I am a registered Professional Engineer of British Columbia. I graduated with a degree of Master of Applied Science from the University of British Columbia in 1948, and with a Doctorate of Philosophy from Massachusetts Institute of Technology (in geology) in 1951.
- (3) I have practised my profession since that time.

Dated at Vancouver, B.C. this ¹²5 day of Aug 1982.


R.H. Seraphim, Ph.D., P.Eng.



GEOCHEMISTRY AND GEOLOGY

J.T. CLAIMS

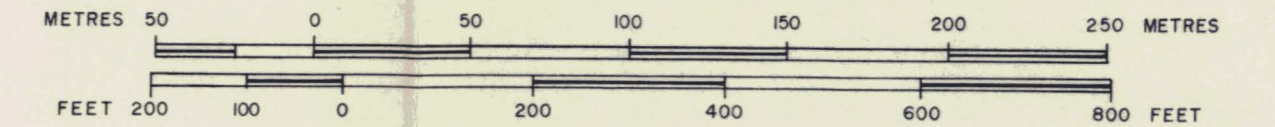
WATSON LAKE M.D., YUKON TERRITORY

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LEGEND

- ZINC-RICH OCHRE
- LIMESTONE

405
8-13 Zn
 Cu - Pb in ppm



AUGUST, 1982

R.H.S.

R.H.S.