A REPORT ON A GEOCHEMICAL SURVEY
OF THE KNEIL CLAIMS

Watson Lake Mining Division
Yukon Territory

N.T.S. 105-H-4

Latitude: 61°07'N
Longitude: 129°50'W

G. A. Jilson
CYPRUS ANVIL MINING CORPORATION
June, 1982
This report has been examined by
the Special Evaluation Unit
under Section 53 (4) Yukon Quartz
Mining Act and is allowed as
representation work in the amount
of $7,000.

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.)

1 (Name) Margaret I. Parker

Occupation Agent

(People Address) 300-355 Burrard Street, Vancouver, B.C.

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)

   KNEIL 1-16 - YA66651-YA66666

   situated at W. of Tuchita River
   in the Watson Lake Mining District, to the value of at least
   Claim Sheet No. 105-H-4
   Claim value $1,600.00
   dollars, since the 31st day of July 1981

   to represent the following mineral claims under the authority of Group Certificate No.
   (Here list claims to be renewed by number and name in numerical order)

   KNEIL 5 YA66655 - 2 yrs.
   6 YA66656 - 2 yrs.
   7 YA66657 - 2 yrs.
   8 YA66658 - 2 yrs.
   9 YA66659 - 2 yrs.
   10 YA66660 - 2 yrs.
   11 YA66661 - 2 yrs.
   12 YA66662 - 2 yrs.

   GROUP #1

3. The following is a detailed statement of such work: (Set out full particulars of the work done
   in the twelve months in which such work is required to be done, as shown by Section 53.)
   Samples are located at Acme Analytical Labs in Vancouver.
   - Salaries & Wages - 16 man days @$55/day
   - Camp Costs - 16 man days @$25/day
   - Helicopter support - 2 hrs. 40 min. @$345/hr. as per invoices
   - Geochem Analysis-Acme Analytical Labs - as per invoice attach.
   - Administration - 10% (See attached)

   Value of work remaining for further recording

   RECORD WORK: 8 clms. x 2 yrs. @$100/cl/yr.
   880.00
   400.00
   920.00
   4,359.50
   6,559.50
   656.00
   7,215.50

   $1,600.00
   $5,615.50

Sworn before me at Vancouver, B.C.
this 23rd day of June 1982

Notary Public in and for the Province of British Columbia.

091067
**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.)

<table>
<thead>
<tr>
<th>I (Name)</th>
<th>Margaret I. Parker</th>
</tr>
</thead>
<tbody>
<tr>
<td>Occupation</td>
<td>Agent</td>
</tr>
<tr>
<td>(Postal Address)</td>
<td>300-355 Burrard Street, Vancouver, B.C.</td>
</tr>
</tbody>
</table>

**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)

KNEIL 17-32 - YA66667-YA66682

<table>
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<td>W. of Tuchita River</td>
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<tr>
<td>Claim</td>
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<td>Dist.</td>
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<td>Value of at least</td>
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<td>Dollars, since the 31st day of July 1981</td>
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3. The following is a detailed statement of such work:

   (Set out full particulars of the work done in the twelve months in which such work is required to be done, as shown by Section 53.)

   Geochem Survey conducted on this property during the period Aug. 1 - Aug. 4, 1981

   - Salaries & Wages - 16 man days @$55/day
   - Camp Costs - 16 man days @$25/day
   - Helicopter support - 2 hrs. 40 min. @$345/hr. as per invoices
   - Geochem Analysis - Acme Analytical Labs. as per invoice attach.

   - Administration - 10% (see attached)

   Work used to record Group #1

   RECORD WORK: 5 clms. x 2 yrs. @$100/cl/yr. 1,000.00
   3 clms. x 3 yrs. @$100/cl/yr. 900.00

   Value of work remaining for further recording

   $3,715.

Sworn before me at Vancouver, B.C. this 25
day of June 1981

[Signature]

Notary Public in and for the Province of British Columbia.
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.)

1 (Name) Margaret I. Parker

(Postal Address) 300-355 Burrard Street, Vancouver, B.C.

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 ceased to be done, work on the following mineral claim(s):
   (Here list claims on which work was actually done by number and name)
   RNEIL - 33-48 - YA66683-YA66698

   Situated at W. of Tutchitua River
   In the Watson Lake Mining District, to the value of at least $2,200.00
   Claim Sheet No. 105-H-4
   Dollars, since the 31st day of July 1981

   To represent the following mineral claims under the authority of Grouping Certificate No.
   (Here list claims to be renewed by number and name in numerical order)
   RNEIL 37 YA66687 - 3 yrs.
   38 YA66688 - 3 yrs.
   39 YA66689 - 3 yrs.
   40 YA66690 - 3 yrs.
   41 YA66691 - 3 yrs.
   42 YA66692 - 3 yrs.
   43 YA66693 - 2 yrs.
   44 YA66694 - 2 yrs.

GROUP #3

3. The following is a detailed statement of such work: (Set out full particulars of the work done
in the twelve months in which such work is required to be done, as shown by Section 33.)

   Geochem Survey conducted on this property during the period Aug. 1 - Aug. 4, 1981
   Samples are located at Acme Analytical Labs in Vancouver.
   - Salaries & Wages - 16 man days @$55/day
   - Camp Costs - 16 man days @$25/day
   - Helicopter support - 2 hrs. 40 min. @$345/hr. as per invoices
   - Geochem Analysis - Acme Analytical Labs. as per invoice attach.
   - Administration - 10% (See attached)

   Total Work used to record Groups 1-2
   RECORD WORK: 2 clms. x 2 yrs. @$100/cl/yr.
   6 clms. x 3 yrs. @$100/cl/yr.

   Value of work remaining for further recording

Sworn before me at Vancouver, B.C. this 25th day of June 1982

Notary Public in and for the Province of British Columbia.

CYPRESS ANVIL MINING CORPORATION

Agent Application
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) Margaret I. Parker Occupation Agent

(Postal Address) 300-355 Burrard Street, Vancouver, B.C.

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)

   KNEIL 51-60 - YA66699-YA66708

   situated at W. of Tuchuita River
   in the Watson Lake Mining District, to the value of at least $1,400.00
   dollars, since the 31st day of July 1981

   to represent the following mineral claims under the authority of Grouping Certificate No.
   (Here list claims to be renewed by number and name in numerical order)

   KNEIL 51 YA66699 - 3 yrs.
   52 YA66700 - 2 yrs.
   53 YA66701 - 3 yrs.
   54 YA66702 - 2 yrs.
   55 YA66703 - 2 yrs.
   56 YA66704 - 2 yrs.

GROUP #4

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

   Geochem Survey conducted on this property during the period Aug. 1 - Aug. 4, 1981.
   Samples are located at Acme Analytical Labs in Vancouver.
   - Salaries & Wages - 16 man days @$55/day
     880.00
   - Camp Costs - 16 man days @$25/day
     400.00
   - Helicopter support - 2 hrs. 40 min. @$345/hr. as per invoices
     920.00
   - Geochem Analysis - Acme Analytical Labs-as per invoice attach.
     4,359.50
     6,559.50
     6,656.00

   $7,215.50
   $5,700.00

   - Administration - 10% (See attached)

   Work used to record Groups 1-3

   RECORD WORK: 4 clms. x 2 yrs. @$100/cl/yr. 800.00
   2 clms. x 3 yrs. @$100/cl/yr. 600.00
   Value of work remaining for further recording

   $1,400.00
   $115.50

   Sworn before me at Vancouver, B.C.
   this 19th day of June 1982

   Notary Public in and for the Province of British Columbia.

   Agent

   Cyprus Anvil Mining Corporation
AFFIDAVIT SUPPORTING SUMMARY OF COSTS

I, G. A. Jilson, Geologist, Cyprus Anvil Mining Corporation, of Vancouver, British Columbia, do hereby state that, to the best of my knowledge and belief, the statement of costs presented in this report (A Report On A Geochemical Survey On The Greggie Claims) is both correct and true. I am a member in good standing of the Geological Association of Canada.

G. A. JILSON

25 Oct 1980
(Date)

Notary Public in and for the Province of British Columbia

091007
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SUMMARY

The 58 Kneil claims were staked in July, 1981 to cover small showings of stratiform, disseminated to nearly massive sulfides with a slight base metal content, hosted by a sequence of metasedimentary and lesser intermediate to felsic metavolcanic rocks. Only small Cu, Pb, Zn soil geochemical anomalies were found in the vicinity of known showings, suggesting that additional, near-surface mineralization is not likely. Due to the strong deformation of the host rocks and the nature of the mineralization, it is possible that more extensive buried sulfides could be found adjacent to known showings. More extensive geological and geophysical studies should be conducted to evaluate this possibility.

INTRODUCTION

During the 1981 field season, small base metal sulfide showings were discovered in the area of the Kneil claims during reconnaissance geological mapping. The area was staked in July, then covered by a soil geochemical survey which forms the substance of this report.

LOCATION AND ACCESS

The claims are located 125 kilometers north-northwest of Watson Lake or 35 kilometers west-northwest of Tuchitua Junction, the nearest outpost. The claims are on N.T.S. Sheet 105-H-4, the latitude and longitude of the center of the claim group is 61°07' N, 129°50' W. Access is most easily gained by helicopter from Watson Lake. Equipment can be moved to the property by fixed wing aircraft to a small lake 5 kilometers north of the claims or by truck to a point on the Campbell Highway 25 kilometers south of Money Creek, which is a 25 kilometer helicopter flight from the property.
CLAIMS

The property consists of 58 full-sized mineral claims, duly registered with the Mining Recorder in Watson Lake.

<table>
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<tr>
<th>Name</th>
<th>Grant No.</th>
<th>Record Date</th>
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<td>Kneil 1 - 48</td>
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<td>Kneil 51 - 60</td>
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This report is in support of an application for two years assessment on each of the following claims: 5 - 12 inclusive, 21, 27, 28, 43, 44, 52, 54 - 56 inclusive; and three years on 22, 24, 26, 37 - 42 inclusive, 51, 53.

GEOLOGY

The geology of the Kneil claims area has been examined briefly by the author and L. C. Pigage in 1979, during 1:125,000 scale regional mapping, and in more detail by J. Mortenson in 1981. Sufficiently detailed mapping has not yet been carried out.

Two major map units are present; one along the south edge of the claims is a strongly and pervasively foliated, deformed granodiorite pluton, probably Devonian, (Mortenson, personal communication), the other is a metasedimentary and metavolcanic complex, also highly strained and metamorphosed with strong foliation and extremely well-developed lineation.
Known mineralization is hosted by the latter unit. Lithologies present are tan to creme colored, micaceous quartzite to siliceous phyllite and dark grey to black graphitic, siliceous phyllite. In places, the dark colored rocks have a noticeable clastic texture; however, the extreme deformation the rocks have experienced has obscured such textures in general, if they were originally common. Additional lesser, but important, interlayered lithologies are quartz phenocryst-bearing felsic metavolcanic rocks, quartz grits and metabasite. Mineralization is contained within the micaceous quartzites and consists of semi-massive to disseminated pyrite and pyrrhotite with lesser sphalerite, galena and chalcopyrite in a layer or pod a few feet thick, with unknown but limited lateral dimensions. The host rocks have a very pronounced lineation which is thought to be parallel to the long axis of the sulfide pod, thus the geometry of this deposit is presumed to be strongly governed by deformation.

The age of the host rocks is unknown but may be Paleozoic, older than nearby Mississippian and younger limestones and the granitic rocks. The granitic body and the felsic volcanics may be related, suggesting a mid-Paleozoic age.

METHODS AND PROCEDURES

Field Methods

Samples were collected from the B soil horizon every 50 meters along north-south flag lines spaced 200 meters apart. The samples were dug with a mattock and about 200 grams of soil placed in a wet strength kraft paper sample bag. The samples were air dried at the prevailing outside temperature.
Laboratory Methods

Samples were shipped to the Vancouver laboratory of Acme Analytical Laboratory Ltd. for analysis.

The samples were oven dried at 50°C, sieved to -80 mesh. A 0.2 gram subsample was digested in hot aqua regia and analysed by inductively coupled argon plasma spectrometry for Cu, Pb, Zn, Ag, Hg and As. For Ba analysis, digestion was by caustic EDTA, followed by AA. For Au analysis, digestion was by aqua regia but on a 10 gram subsample with AA follow-up.

Results

The results of the survey are plotted on Maps Nos. 1 to 4 and summarized in histogram form in Figure 3 and as a cumulative frequency diagram in Figure 4.

Copper

Copper values over 120 ppm should be considered anomalous, these values are spread diffusely over the southwestern portion of the property. Without the use of lead and zinc values, it is not immediately obvious where the one known showing is; however, in conjunction with the other elements, it is clear that there are three domains of weakly anomalous results which appear to have different explanations. The arcuate anomaly near 15N is caused by the known showing and direct dispersion from it. The higher values to the north and south of that anomaly appear to have different explanations due to different elemental associations. To the north, copper is
Copper

Lead

Zinc

Kneil Claims

Drawn by: C. L. C.
associated with zinc and the cause is probably high background copper and zinc from graphitic rocks which abound there. To the south, copper is associated with weakly anomalous gold. I tentatively suggest this may be due to footwall copper, gold enrichment beneath the stratiform sulfide lens near 15N.

**Lead**

Lead values over 100 ppm should be considered anomalous. Figure 4 shows that at 100 ppm the cumulative frequency plot ceases to be strongly linear and by 150 ppm a definite second population is evident. Most of these high lead results are found near the showing in a northerly concave arcuate anomaly. The concavity of the anomaly may be due to the shallow northward dip of layering interacting with topography. The anomaly is small and only locally intense, as one might expect from the nature of the known mineralization. Two additional areas of anomalous results are found at the northern and southern extremities of the property. The southern one is near the contact of the deformed granitoid rocks. This suite commonly is weakly anomalous in Pb, Zn and Ag on regional surveys, due to small Ag, Pb veins. It is tempting to suggest such veinlets may exist here.

The northern weak anomaly is unexplained but it is quite weak and lacks support from Cu or Zn.

**Zinc**

Zinc should be considered anomalous if above 300 ppm; Figure 4 shows that by 400 ppm a second anomalous population is well established.
The zinc anomalies are most pronounced near the known showing and north of it. The probable causes of these results have already been discussed.

**Other Elements**

Au, As, Hg, Ba and Ag values were determined on two lines, 4E and 17E; none of the values obtained is very high but some trends are apparent on line 17E. The sulfide lens is clearly higher in Ag and As, somewhat in Hg and Au, a slight enrichment in Ba appears to be present.

As noted previously, the footwall of the stratiform mineralization is slightly enriched in Au, possibly due to footwall "stringer" mineralization not yet discovered, and not likely to be of economic importance, judging from the amount of metal in soil.

**CONCLUSIONS AND RECOMMENDATIONS**

The geochemical survey clearly pinpoints the known showing and suggests that near-surface extensions are not likely to be present. This conclusion should be tempered somewhat in the valleys on either side of the ridge with the showing, since they are extensively covered by iron hydroxide cemented overburden.

Due to the highly strained and lineated nature of the rocks, one might expect any original sulfide sheet to be segmented into elongate pods parallel to the east-west trending lineation, thus the one showing may be structurally detached from more extensive, buried sulfides, especially down-dip in the creeks north of the showing. This possibility should be evaluated
by more detailed geological mapping, coupled with magnetic and electromagnetic and/or induced polarization surveys.

Respectfully submitted,

[Signature]

G. A. Jilson
APPENDIX I

Kneil Claims

Statement of Costs

SALARIES AND WAGES
16 man days @ $55/day
$ 880.00

CAMP COSTS
16 man days @ $25/day
400.00

HELICOPTER
2 hrs., 40 mins. @ $345
920.00

GEOCHEMICAL ANALYSES
4,359.50

Administration - 10%

656.00

$7,215.50
## APPENDIX II

### Kneil Claims

#### List of Personnel

<table>
<thead>
<tr>
<th>Name</th>
<th>Position</th>
<th>Address</th>
</tr>
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<tr>
<td>G. A. Jilson</td>
<td>Geologist</td>
<td>#3, 266 - West 4th Street North Vancouver, B.C.</td>
</tr>
<tr>
<td>J. K. Mortenson</td>
<td>Geologist</td>
<td>University of California at Santa Barbara</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Santa Barbara, California</td>
</tr>
<tr>
<td>M. Mardus</td>
<td>Geochemical Sampler</td>
<td>#99, 1915 Haro Street Vancouver, B.C.</td>
</tr>
<tr>
<td>N. Peck</td>
<td>Geochemical Sampler</td>
<td>1838 Western Parkway Vancouver, B.C.</td>
</tr>
<tr>
<td>D. Charge</td>
<td>Geochemical Sampler</td>
<td>915 North Road Coquitlam, B.C.</td>
</tr>
<tr>
<td>C. Hogarth</td>
<td>Geochemical Sampler</td>
<td>537 Appian Way Coquitlam, B.C.</td>
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APPENDIX III

INVOICES SUPPORTING STATEMENT OF COSTS
## TIME SHEET

**Employee:** Mike Murphy  
**Type of work:** Field Assistant  
**Payroll used for:** August 1987

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### PAYROLL DEPT. USE ONLY

- **Gross before board:** 1560.00
- **Vac:** 120.00
- **Gross Earnings:** 1680.00
- **Deductions:**
  1. C.P.P.: 27.16
  2. U.I.C.: 24.57
  3. Income Tax: 200.00
  4. Group: 0.00
  5. M.S.A.: 0.00
  6. Accts. Rec.: 0.00
  7. 0.00
  8. 0.00
  9. 0.00
  10. 0.00
- **Mid month advance:** 263.73
- **Net Pay:** 1366.27

### TYPE OF WORK

- Property Examination
- Prospecting
- Staking
- Airborne Surveys
- Line Cutting
- Geology
- Geophysics
- Geochemistry
- Diamond Drilling
- Physical Work
- Access Roads
- Camp Operations
- Fuel Haul

**Employee Signature:** [Signature]

**Approved:** [Signature]
## Time Sheet

**For the Month of August 19**

### Date Work Off Florens Prov. or Claim Type of Work Explanations

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### Payroll Dept. Use Only

**Gross Before Board:**
- 1200.00
- 90.00
- 1900.00

**Gross Earnings:**
- 1900.00

**Deductions:**
1) C.P.P: 34.27
2) U.I.C: 24.57
3) Income Tax: 250.00
4) Group: 
5) M.S.A: 
6) Accts. Rec: 
7) 
8) Board: 
9) 
10) 
11) Mid Month Advance: 181.44

**Net Pay:** 1413.72

### Project Days Before Board Field Bonus

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**Employee:**

**Approved:**

*Note: The table and text may contain errors due to the handwriting style.*
### TIME SHEET

**For the Month of August 1971**

#### Date Work Off Florens Prov. Project or Claim Type of Work EXPLANATIONS

<table>
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#### Payroll Dept. Use Only

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- **Gross Before Board**: 1500.00
- **Net Pay**: 1419.20
- **Deductions**:
  1) C.P.C. 30.69
  2) U.I.C. 24.57
  3) Income Tax 200.00

#### Payroll Dept. Use Only

- **Gross Before Board**: 205.16
- **Total**: 1705.16
- **Net Pay**: 1419.20

#### Project Details

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#### Field Bonus

- **Total**: 1705.16

---

**Employee Signature**: [Signature]

**Approved**: FT103
# Time Sheet

**For the Month of August 19**

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## Payroll Dept. Use Only

- **Gross Before Board**: $1500.00
- **Vac**: $180.00
- **Gross Earnings**: $1320.00
- **Deductions**
  - 1) C.P.P.: $30.25
  - 2) U.I.C.: $24.57
  - 3) Income Tax: $150.00
  - 4) Group
  - 5) M.S.A.
  - 6) Accts. Rec.
  - 7)
  - 8) Board
  - 9)
  - 10)
  - 11) Mid Month Advance: $204.82

**Net Pay**: $1175.18

**End of Employment**

---

**Type of Work**

- Property Examination
- Prospecting
- Staking
- Airborn Surveys
- Line Cutting
- Geology
- Geophysics
- Geochemistry
- Diamond Drilling
- Physical Work
- Access Roads
- Camp Operations
- Fuel Haul

**Project**

- 192001
- 330101
- 340101

**Days**

- 333.52
- 57.30
- 142.18

**Field Bonus**

- $1680.00

---

**Employee**

---

**Approved**
# VIKING HELICOPTERS LIMITED FLIGHT REPORT

**BOX 5104, STN. F, OTTAWA, ONTARIO, CANADA, K2C 3H4**

**DATE**

**PILOT**

B. WILSON

**ENGINEER**

D. TRUDEL

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**DAILY TOTAL HOURS**

41.20

**CONDITIONS OF CARRIAGE**

The Charter Tariff of Viking Helicopters Limited (the Carrier), which is available for examination at any office of the Carrier upon request, is deemed to form a part of this and all contracts for the carriage of the Charter and/or his servants, agents and/or goods. In particular, the Charterer is advised that the liability of the Carrier for loss or damage to the goods of the Charterer is limited to the sum of 10¢ per lb., pursuant to Rule 13 of its said Charter Tariff.

**APPROVAL AUTHORIZED COMPANY REPRESENTATIVE**

**CLIENT NAME & ADDRESS**

CYPRUS ANVIL
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<th>AIR TIME</th>
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**REMARKS**

- 20 A.N.E.S CLAIMS

**CONDITIONS OF CARRIAGE**

The Charter Tariff of Viking Helicopters Limited (the Carrier), which is available for examination at any office of the Carrier upon request, is deemed to form a part of this and all contracts for the carriage of the Charter and/or his servants, agents and/or goods. In particular, the Charterer is advised that the liability of the Carrier for loss or damage to the goods of the Charterer is limited to the sum of 10% per lb, pursuant to Rule 13 of the said Charter Tariff.
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**Conditions of Carriage**

The Charter Tariff of Viking Helicopters Limited (the Carrier), which is available for examination at any office of the Carrier upon request, is deemed to form a part of this and all contracts for the carriage of the Carrier and/or his servants, agents and/or goods. In particular, the Charterer is advised that the liability of the Carrier for loss or damage to the goods of the Charterer is limited to the sum of 10¢ per lb., pursuant to Rule 13 of its said Charter Tariff.

APPROVAL AUTHORIZED COMPANY REPRESENTATIVE

**Client Name & Address**

CYPRUS ANUILL
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**Conditions of Carriage**

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CLIENT NAME & ADDRESS

CYPRIUS ANVIL
Cyprus Anvil Mining Corporation,  
330 - 355 Burrard St.,  
Vancouver, B.C.  
V6C 2GB

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Less 10% discount

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CP Air #018-63992353 F

TERMS:
NET TWO WEEKS
2% PER MONTH CHARGED ON OVERDUE ACCOUNTS.

PLEASE PAY LAST AMOUNT

D. Toyne