REPORT ON THE
INDUCED POLARIZATION
AND
RESISTIVITY SURVEY
AND THE
TOTAL FIELD MAGNETIC SURVEY
ON THE
CARIBOU CLAIM GROUP

WATSON LAKE MINING DISTRICT
CARIBOU LAKE AREA, YUKON TERRITORY
N.T.S. 105B/7
60°23'N, 130°43'W

For
CORDILLERAN ENGINEERING

By
Paul A. Cartwright, B.Sc., Geophysicist
and
Philip G. Hallof, Ph.D., P.Eng., Geophysicist

PHOENIX GEOPHYSICS LIMITED
214 - 744 West Hastings Street
Vancouver, B.C. V6C 1A6

JANUARY, 1981

CLAIMS: Caribou Mineral Claims, Numbers 1 to 32 inclusive
LOCATION: 109 km (68 mi) northwest of Watson Lake, Y.T.
DATE: July 11 to July 29, 1980.
This report has been examined by the Geological Evaluation Unit and it is recommended to the Commissioner to be considered as representation work under Section 53 (4) Yukon Code Mining Act.

J.R. Baxter
Resident Mining Engineer

Commissioner of Yukon Territory

Copyright Engineering

By

A. Carpentier, B.Sc., Geophysicist

and

Philip C. Hallett, M.D., P.Eng., Geophysicist

PHOENIX GEOPHYSICS LIMITED
514 - 14th West Hastings Street
Vancouver, B.C., V6C 1A9

JANUARY 1981

CLAIM:
Carbon Mineral Claims, Numbers 1 to 5 inclusive

MAGNITUDE:
104 Km (65 mi) northeast of Watson Lake, YT

DATE:
July 11 to July 23, 1980
FOR ACTION ARE:

- NEW APPL'N for PLACER LEASE to PROSPECT Name:
- RENEWAL APPL'N PLACER LEASE to PROSPECT Name:
- AFFIDAVIT of EXPENDITURE on PLACER LEASE Name:
- ASSIGNMENT of PLACER LEASE No.
  From:
  To:
- GROUPING APPL'N UNDER SEC. 52(2) PLACER MINING ACT.
  Owner:
- DIAMOND DRILL LOGS
  Claims:
- QUARTZ ASSESSMENT REPORT
  Claims: CARIBOU 1-32
  Type of report: Geophysical
  Cls. work performed on:
  CARIBOU 17-32
  25-39

Claim sheet no.

Claim sheet no. 105-B-7

Submitted by: Cordilleran Engineering

$ Req. for ren application $13,800.00

B. T. Reid

Signature

Date Rev.
MAKE OATH AND SAY, THAT:—

1. I am the 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)
   
<table>
<thead>
<tr>
<th>Claim No.</th>
<th>Location</th>
<th>Dollars, since</th>
<th>Day</th>
<th>Month</th>
</tr>
</thead>
<tbody>
<tr>
<td>YA 54 205</td>
<td>Caribou Lake</td>
<td></td>
<td>21</td>
<td>March</td>
</tr>
<tr>
<td>YA 54 210</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>YA 54 213</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>YA 54 218</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

   situated at Caribou Lake Claim Sheet No. 105 8/17

   in the Watson Lake Mining District, to the value of at least $8400.00

   dollars, since the 21 day of March 1980.

   to represent the following mineral claims under the authority of Grouping Certificate No.
   
   YA 54 205 - YA 54 210 Caribou 1 to 6 - 4 years - 6th claim
   
   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 83.)

   Geophysical Surveys were conducted during the period July 11 to 29, 1980.

   A total of 13.5 km of surveys were conducted on the property at a cost of $18,810.08

   ($1393.47/km) of this 6.75 km were run on Group 1.

   Details of the work completed are contained in the report entitled "Report on the combined

   Geophysical Surveys on the Caribou Claim Group."

   Sworn before me at Vancouver, B.C.

   this 28 day of November, 1980

   Applicant.
AND I make this solemn declaration conscientiously believing it

to be true and knowing that it is of the same force and effect as if

made under oath and by virtue of the Canada Evidence Act.

Declared before me at VANCOUVER in the PROVINCE of B.C. this

28 day of NOVEMBER 1980

A notary public in and for the

Yukon Territory (A 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.)

<table>
<thead>
<tr>
<th>I (Name)</th>
<th>Carl C. Verley</th>
</tr>
</thead>
<tbody>
<tr>
<td>Occupation</td>
<td>Geologist</td>
</tr>
<tr>
<td>Postal Address</td>
<td>1418 - 355 Burrard Street, Vancouver, B.C.</td>
</tr>
</tbody>
</table>

MAKE OATH AND SAY, THAT:--

1. I am the 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)
   - YAS 4219 - YAS 4224 Caribou 17 to 22
   - YAS 4227 - YAS 4221 Caribou 25 to 29

   situated at Caribou Lake
   Claim Sheet No. 105B/7

   In the Caribou Lake Mining District, to the value of at least $6,400.00
   dollars, since the 31 day of March 1980,
   to represent the following mineral claims under the authority of Grouping Certificate No. 279
   (Here list claims to be renewed in numerical order, by grant number and claim name, showing renewal period requested).
   - YAS 4219 - YAS 4224 Caribou 17 to 32 - 4 years - 64 claim

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.)

   Geophysical Surveys were conducted during the period July 11 to 29, 1980. Expenditures for a total of 13.25 m of surveys were conducted on the property at a cost of $18,810.08 (193.14/km) of this 6.75 km were run on Group 2.

   Details of the work completed are contained in the report entitled "Report on the Combined Geophysical Surveys on the Caribou Claim Group."

Sworn before me at Vancouver, B.C. this 28 day of December 1980

Carl G. Verley

Notary Public A Notary Public in and for the Province of British Columbia
## TABLE OF CONTENTS

<table>
<thead>
<tr>
<th>Part A: Report</th>
<th>12 pages</th>
<th>Pages</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Introduction</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>2. Description Of The Claims</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>3. Presentation of Results</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>4. Discussion of Results</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>5. Conclusions and Recommendations</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>6. Assessment Details</td>
<td>8</td>
<td></td>
</tr>
<tr>
<td>7. Statement of Cost</td>
<td>9</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Part B: Illustrations</th>
<th>14 pieces</th>
</tr>
</thead>
<tbody>
<tr>
<td>Plan Maps (in pockets)</td>
<td>Dwg. I.P.P. 3088</td>
</tr>
<tr>
<td></td>
<td>Dwg. M.P. 3089</td>
</tr>
<tr>
<td>IP Data Plots</td>
<td>Dwg.No. 5245-1 to -12</td>
</tr>
</tbody>
</table>
1. INTRODUCTION

A program of Induced Polarization and Resistivity surveying and Total Field Magnetic surveying has been completed on the Caribou Claims grid on behalf of Cordilleran Engineering Ltd.

The Caribou property is located approximately 100 Km. west-north-west of Watson Lake, Yukon Territory on N.T.S. sheet 105 B-7. Access is via charter aircraft from Watson Lake.

The following description of the geology in the area of interest has been provided by the staff of Cordilleran Engineering Ltd. "Molybdenum mineralization occurs on the Caribou claim group in altered intrusives of
CLAIM MAP

CARIBOU GROUP

WATSON LAKE MINING DISTRICT, YUKON TERRITORY

N.T.S. 105D-7

SCALE: 1 inch = 1/2 mile
CONTOUR INTERVAL = 500 FEET

GRANT NO. YA54203 - YA54234
EXPIRY DATE MARCH 31, 1981

CARIBOU 1-32
presumably late Cretaceous age. At least two varieties of intrusive are present: a medium-grained quartz-feldspar porphyry (dominant type) and a finer-grained quartz-feldspar rock. Age relationships between the two rock types are not known. Alteration of both intrusives consists of a quartz-sericite-pyrite assemblage which grades laterally into a clay-bearing facies. Fracture controls for alteration are evident, but locally alteration is pervasive and intense.

Molybdenite is found in float between lines 3200W, 2400W and 600N to 900N. It occurs in quartz veins and disseminated in altered intrusive (predominantly clay facies). Disseminated pyrite is ubiquitous. Disseminated magnetite occurs in the most intensely altered sericite-quartz facies and in unaltered quartz feldspar porphyry.

The intrusives are hosted by Lower Cambrian or earlier (?) meta-sediments (grits and schists). The northern contact between intrusive and metasediments appears to lie between approximately 1200N and 1400N on the grid. East, west and southern contacts have not been located at present. Float of metasediment near the inferred intrusive contact is strongly altered and contains abundant disseminated pyrite.

Exposure on the claims is less than 1 percent."

It was hoped that the present IP and Resistivity survey, and the accompanying magnetic survey would delineate metallic sulphides and structures associated with molybdenum mineralization, as molybdenite is not directly detectable by any geophysical technique.

A Phoenix Model IPV-1, IPT-1 frequency domain IP system, operating at 5.0 Hz, and 0.31 Hz, was used to make the induced polarization and resistivity measurements, while a McPhar Model GP-70 proton magnetometer,
together with a McPhar Model M-700 base station recorder, were utilized for the magnetic readings.

All surveys were carried out under the supervision of Mr. John Marsh, Senior Crew Leader. His certificate of qualification is appended to this report.

Field work on the Caribou Claim Group was completed during July 1980.

2. DESCRIPTION OF THE CLAIMS

<table>
<thead>
<tr>
<th>Grant No.</th>
<th>Expiry Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Caribou 1 - 32</td>
<td>YA 54203 - YA 54234</td>
</tr>
</tbody>
</table>

The reader is referred to Figure 1, a claim map of the property.

3. PRESENTATION OF RESULTS

The results of the geophysical surveys are shown on the following data plots. The induced polarization and resistivity data are plotted in pseudo-section form.

<table>
<thead>
<tr>
<th>Line</th>
<th>Electrode Interval</th>
<th>Dwg. No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>3200W</td>
<td>100 meters</td>
<td>IP 5245-1</td>
</tr>
<tr>
<td>3000W</td>
<td>100 meters</td>
<td>IP 5245-2</td>
</tr>
<tr>
<td>2800W</td>
<td>100 meters</td>
<td>IP 5245-3</td>
</tr>
<tr>
<td>2600W</td>
<td>100 meters</td>
<td>IP 5245-4</td>
</tr>
<tr>
<td>2400W</td>
<td>100 meters</td>
<td>IP 5245-5</td>
</tr>
<tr>
<td>2200W</td>
<td>100 meters</td>
<td>IP 5245-6</td>
</tr>
<tr>
<td>2000W</td>
<td>100 meters</td>
<td>IP 5245-7</td>
</tr>
<tr>
<td>1800W</td>
<td>100 meters</td>
<td>IP 5245-8</td>
</tr>
</tbody>
</table>
Also included with this report is Dwg. I.P.P. 3088, a plan map of the Caribou Claims grid. The definite, probable and possible IP and Resistivity anomalies are indicated by bars, in the manner shown on the legend, on this plan map as well as on the data plots.

The magnetic data is plotted in the form of a contoured plan map designated as Dwg. M.P. 3089.

The grid and topographic information shown on these plan maps has been taken from maps made available by the staff of Cordilleran Engineering Ltd.

4. DISCUSSION OF RESULTS

The most prominent feature seen in the contoured magnetic data is a region of lower than background magnetic susceptibility, roughly oval in shape, centered in the western corner of the grid area. One possible explanation for the low magnetic values would be the presence of a less magnetic rock unit such as the finer grained quartz feldspar intrusives. Higher than background magnetic readings are interpreted to form a concentric ring which encloses the magnetic low.

The regional trend of the magnetics shows decreasing values towards the southeast.

Induced Polarization and Resistivity surveying indicate that much
of the grid area around the magnetic low is underlain by very polarizable and quite conductive material. Geological mapping has noted the presence of metasediments, which undoubtedly are the primary source of the anomalous IP effects. However, in some instances, anomalous IP effects are seen extending into the region of low magnetic values, where intrusive rock may be present. These more interesting areas are discussed in relation to the three major zones of anomalous IP response outlined.

**IP ZONE A**

IP Zone A can be seen extending across all of the grid lines, just north of, and parallel to the baseline. For the most part, the trend consists of very anomalous polarizability measurements accompanied by very low apparent resistivity values, except for the southeastern end where higher resistivity values are noted. At the northwestern end of the zone on Line 2600W, the very anomalous core of the zone is indicated to be in the order of 500 meters wide, with less conductive, but highly polarizable material being present on either margin.

While metasedimentary material probably is responsible for most of the anomalous values recorded in IP Zone A, an interesting signature is evident in the data along the southern edge of the zone on Line 2600W through to Line 2000W. Here, very anomalous polarization effects accompanied by only moderate magnitude resistivity reading are indicated extending southwest of the possible metasediment-intrusive contact, as marked by magnetics. The presence of substantial amounts of disseminated metallic sulphides along the north-eastern margin of the less magnetic rock unit is quite probable.
ZONE B1 – ZONE B2

These features may in fact be part of one continuous zone, striking across the southwestern end of the grid lines, along the southwestern side of the magnetic low.

Generally, the individual responses detected in these zones are not as anomalous as is the case in Zone A, with the principal difference being the presence of higher apparent resistivity values in Zone B1, B2. This suggests that the sources are more disseminated in nature, possibly being very similar to the material detected along the southwest margin of Zone A.

The most encouraging responses from Zone B1, and B2 are those which are plotted within the region of the magnetic low, in that these particular anomalies are most probably not caused by the metasediments, but rather metallic sulphides within the intrusive rock.

5. CONCLUSIONS AND RECOMMENDATIONS

A distinct, roughly circular region of low magnetic values is indicated, by the contoured magnetic data, to be present in the western corner of the grid area. A concentric halo of higher than background values is also evident, surrounding the magnetic low. It is quite probable that these features outline the finer-grained quartz feldspar rock type, which, according to the geological description, does not host appreciable amounts of magnetite.

One very anomalous IP zone (Zone A) has been outlined in the data, however, metasedimentary material is probably the primary source material, with one exception. Anomalous results appear to extend southwest into the
region of the intrusive as mapped by the magnetics, in the vicinity of Line 2600W through to the area of Line 2000W. Further work should be concentrated in this region. An inclined diamond drill hole spotted so as to pass through a point approximately 100 meters below Station 8+50N, Line 2200W is recommended to test the margin of IP Zone A.

The source of IP Zone B1, and IP Zone B2 is indicated to be quite similar to the material causing the response along the southwestern margin of IP Zone A. Further work should therefore be deferred pending results of drilling on Zone A.

PHOENIX GEOPHYSICS LIMITED

Paul A. Cartwright, B.Sc.
Geophysicist

Philip G. Hallof, Ph.D., P.Eng.
Geophysicist

Expiry Date: February 25, 1981

Dated: January 9, 1981
### ASSESSMENT DETAILS

**PROPERTY:** Caribou Claims  
**MINING DIVISION:** Watson  

**SPONSOR:** Cordilleran Eng. Ltd.  
**PROVINCE:** Yukon Territories  

**LOCATION:** Watson Lake Area  

**TYPE OF SURVEY:** Induced Polarization  
**Total Field Magnetics**  

<table>
<thead>
<tr>
<th>Operating Man Days</th>
<th>21.0</th>
<th>Date Started: July 14, 1980</th>
</tr>
</thead>
<tbody>
<tr>
<td>Equivalent 8 hr. Man Days</td>
<td>31.5</td>
<td>Date Finished: July 29, 1980</td>
</tr>
</tbody>
</table>
| Consulting Man Days | 3.0  | Number of Stations: IP - 157  
|                     |      | MAG - 570                   |
| Drafting Man Days  | 6.4  | Number of Readings: IP - 1440  
|                     |      | MAG - 570                   |
| Total Man Days     | 40.9 | Km. of Line Surveyed: IP - 14.5  
|                     |      | MAG - 14.4                  |

**CONSULTANTS:**

Paul A. Cartwright, 4238 West 11th Ave., Vancouver, B.C.  

**FIELD TECHNICIANS:**

J. Marsh, 744 West Hastings St. Vancouver, B.C.  
G. Oullette, 502 Taschereau Est. Rouyn, Quebec.  

**CARTOGRAPHERS:**

R.J. Fryde, R.R.#1, Sharon, Ontario.  
M.W. Reh, 58 Crossbow Crescent, Willowdale, Ontario.  

Dated: January 9, 1981  

Expiry Date: February 25, 1981
## STATEMENT OF COST

Cordilleran Engineering Limited,  
Caribou Claims - Contract No. PV1049  
Watson Lake M.D., Y.T.

<table>
<thead>
<tr>
<th>CREW</th>
<th>J. Marsh - G. Ouellette</th>
</tr>
</thead>
<tbody>
<tr>
<td>PERIOD:</td>
<td>July 14 - July 29, 1980</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Description</th>
<th>Rate</th>
<th>Quantity</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>13.5 Line KM - IP Survey</td>
<td>@ $385.00/KM</td>
<td>13.5</td>
<td>$5,197.50</td>
</tr>
<tr>
<td>1 Day Detail IP</td>
<td>@ $540.00/day</td>
<td>1</td>
<td>540.00</td>
</tr>
<tr>
<td>4 Days Standby</td>
<td>@ $205.00/day</td>
<td>4</td>
<td>820.00</td>
</tr>
<tr>
<td>13.85 Line KM - Mag Survey</td>
<td>@ $100.00/KM</td>
<td>13.85</td>
<td>1,385.00</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td></td>
<td></td>
<td><strong>$7,942.50</strong></td>
</tr>
</tbody>
</table>

PHOENIX GEOPHYSICS LIMITED  

Philip G. Hallof, Ph.D., P.Eng.  
Geophysicist  

Expiry Date: February 25, 1981

Dated: January 9, 1981
CERTIFICATE

I, Philip George Hallof, of the City of Toronto, Province of Ontario, do hereby certify that:

1. I am a geophysicist residing at Suite 3505, 2045 Lake Shore Blvd.W., Toronto, Ontario.

2. I am a graduate of the Massachusetts Institute of Technology with a B.Sc. Degree (1952) in Geology and Geophysics, and a Ph.D. Degree (1957) in Geophysics.


4. I am a Professional Geophysicist, registered in the Province of Ontario, the Province of British Columbia and the State of Arizona.

5. I have no direct or indirect interest, nor do I expect to receive any interest directly or indirectly, in the property or securities of Cordilleran Engineering Ltd., or any affiliate.

6. The statements made in this report are based on a study of published geological literature and unpublished private reports.

7. Permission is granted to use in whole or in part for assessment and qualification requirements but not for advertising purposes.

Dated at Toronto

This 9th day of January, 1981

Philip G. Hallof, Ph.D.

Expiry Date: February 25, 1981
CERTIFICATE

I, Paul A. Cartwright, of the City of Vancouver, Province of British Columbia, do hereby certify that:

1. I am a geophysicist residing at 4238 West 11th Avenue, Vancouver, B.C.

2. I am a graduate of the University of British Columbia, B.C. with a B.Sc. Degree.

3. I am a member of the Society of Exploration Geophysicists.

4. I have been practising my profession about 10 years.

5. I have no direct or indirect interest, nor do I expect to receive any interest directly or indirectly, in the property or securities of Cordilleran Engineering Ltd., or any affiliate.

6. The statements made in this report are based on a study of published geological literature and unpublished private reports.

7. Permission is granted to use in whole or in part for assessment and qualification requirements but not for advertising purposes.

Dated at Vancouver

This 9th day of January, 1981

Paul A. Cartwright, B.Sc.
CERTIFICATE

I, JOHN MARSH, of the Municipality of North York, Ontario, DO HEREBY CERTIFY THAT:

1. I am a geophysical crew leader residing at 200 Yorkland Blvd., Willowdale, Ontario.

2. I am a graduate of the City of Norwich Technical College, U.K., ordinary National Certificate (Electrical Engineering)

3. I worked with McPhar Geophysics Company from 1968 to 1975 as a geophysical crew leader.

4. I am presently employed as a geophysical crew leader by Phoenix Geophysics Ltd. of Suite 214 - 744 West Hastings Street, Vancouver, B.C.

Dated at Vancouver, B.C.

This 9th day of January, 1981

John Marsh
CORDILLERAN ENGINEERING LTD.
CARIBOU CLAIM GROUP, WATSON LAKE M.D.
YUKON TERRITORY

LINE NO. - 3200W

ELECTRODE CONFIGURATION

SURFACE PROJECTION
OF ANOMALOUS ZONE
DEFINITE
PROBABLE
POSSIBLE

FREQUENCIES 0.3-5.0 HZ.

NOTE - CONTOURS AT
LOGARITHMIC INTERVALS
1, -1, 5, -2, -3, -5, 7.5, 10

PHOENIX GEOPHYSICS LIMITED
INDUCED POLARIZATION AND RESISTIVITY SURVEY

DATE SURVEYED: JULY 1980
**CARIBOU CLAIMS LINE-3000W X=100M RHO (OHM-M)**

<table>
<thead>
<tr>
<th>DIPOLE NUMBER</th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
<th>6</th>
<th>7</th>
<th>8</th>
<th>9</th>
<th>10</th>
</tr>
</thead>
<tbody>
<tr>
<td>COORDINATE</td>
<td>500N</td>
<td>700N</td>
<td>900N</td>
<td>1100N</td>
<td>1300N</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>INTERPRETATION</td>
<td>N=1</td>
<td>N=2</td>
<td>N=3</td>
<td>N=4</td>
<td>N=5</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>H=1</td>
<td>407</td>
<td>362</td>
<td>393</td>
<td>858</td>
<td>769</td>
<td>950</td>
<td>224</td>
<td>180</td>
<td>255</td>
<td>880</td>
</tr>
<tr>
<td>H=2</td>
<td>330</td>
<td>575</td>
<td>750</td>
<td>750</td>
<td>1000</td>
<td>262</td>
<td>105</td>
<td>82</td>
<td>184</td>
<td>104</td>
</tr>
<tr>
<td>H=3</td>
<td>464</td>
<td>499</td>
<td>708</td>
<td>726</td>
<td>278</td>
<td>107</td>
<td>76</td>
<td>67</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>H=4</td>
<td>404</td>
<td>535</td>
<td>922</td>
<td>178</td>
<td>111</td>
<td>83</td>
<td>65</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>H=5</td>
<td>435</td>
<td>707</td>
<td>221</td>
<td>72</td>
<td>85</td>
<td>72</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

**CARIBOU CLAIMS LINE-3000W X=100M PFE**

<table>
<thead>
<tr>
<th>DIPOLE NUMBER</th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
<th>6</th>
<th>7</th>
<th>8</th>
<th>9</th>
<th>10</th>
</tr>
</thead>
<tbody>
<tr>
<td>COORDINATE</td>
<td>500N</td>
<td>700N</td>
<td>900N</td>
<td>1100N</td>
<td>1300N</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>INTERPRETATION</td>
<td>N=1</td>
<td>N=2</td>
<td>N=3</td>
<td>N=4</td>
<td>N=5</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>H=1</td>
<td>6.2</td>
<td>4.3</td>
<td>8.6</td>
<td>5.2</td>
<td>4.2</td>
<td>4.6</td>
<td>12</td>
<td>12</td>
<td>12</td>
<td>9.2</td>
</tr>
<tr>
<td>H=2</td>
<td>8.3</td>
<td>6.2</td>
<td>6.8</td>
<td>5.2</td>
<td>6.5</td>
<td>12</td>
<td>9.5</td>
<td>7.3</td>
<td>14</td>
<td>-</td>
</tr>
<tr>
<td>H=3</td>
<td>11</td>
<td>5.7</td>
<td>5.3</td>
<td>5.6</td>
<td>14</td>
<td>6.5</td>
<td>6.0</td>
<td>6.8</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>H=4</td>
<td>8.8</td>
<td>5.0</td>
<td>7.5</td>
<td>13</td>
<td>11</td>
<td>5.8</td>
<td>N</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>H=5</td>
<td>(7.8)</td>
<td>(5.5)</td>
<td>(14)</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

**CARIBOU CLAIMS LINE-3000W X=100M METAL FACTOR**

<table>
<thead>
<tr>
<th>DIPOLE NUMBER</th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
<th>6</th>
<th>7</th>
<th>8</th>
<th>9</th>
<th>10</th>
</tr>
</thead>
<tbody>
<tr>
<td>COORDINATE</td>
<td>500N</td>
<td>700N</td>
<td>900N</td>
<td>1100N</td>
<td>1300N</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>INTERPRETATION</td>
<td>N=1</td>
<td>N=2</td>
<td>N=3</td>
<td>N=4</td>
<td>N=5</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>N=1</td>
<td>15</td>
<td>11</td>
<td>9.9</td>
<td>5.0</td>
<td>5.4</td>
<td>5.0</td>
<td>53</td>
<td>67</td>
<td>48</td>
<td>10</td>
</tr>
<tr>
<td>N=2</td>
<td>25</td>
<td>14</td>
<td>9.0</td>
<td>6.9</td>
<td>6.1</td>
<td>47</td>
<td>100</td>
<td>89</td>
<td>132</td>
<td>-</td>
</tr>
<tr>
<td>N=3</td>
<td>24</td>
<td>11</td>
<td>7.4</td>
<td>7.5</td>
<td>60</td>
<td>60</td>
<td>79</td>
<td>101</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>N=4</td>
<td>22</td>
<td>(4.3)</td>
<td>(6.1)</td>
<td>(7.3)</td>
<td>(99)</td>
<td>(70)</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>N=5</td>
<td>(18)</td>
<td>(7.7)</td>
<td>(61)</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

**ELECTRODE CONFIGURATION**

**PLOTTING POINT**

**SURFACE PROJECTION OF ANOMALOUS ZONE**

**FREQUENCIES 0.3-5.0HZ**

**NOTE - CONTOURS AT LOGARITHMIC INTERVALS 1,-1,5,-2,-,3,-5,-7.5,-10**

**PHOENIX GEOPHYSICS LIMITED**

**INDUCED POLARIZATION AND RESISTIVITY SURVEY**
**CORDILLERAN ENGINEERING LTD.**

**CARIBOU CLAIM GROUP, WATSON LAKE M.D.**

**YUKON TERRITORY**

**LINE NO. - 2800W**

**ELECTRODE CONFIGURATION**

![Electrode Configuration Diagram]

**PLOTTING POINT**

![Plooting Point Diagram]

**SURFACE PROJECTION OF ANOMALOUS ZONE**

- **DEFINITE**
- **PROBABLE**
- **POSSIBLE**

**FREQUENCIES 0.3 - 5.0 HZ.**

**DATE SURVEYED:** JULY 1980

**PHOENIX GEOPHYSICS LIMITED**

**INDUCED POLARIZATION AND RESISTIVITY SURVEY**
### Cordilleran Engineering Ltd.

**Caribou Claim Group, Watson Lake M.D.**

**Yukon Territory**

**Line No. - 2000W**

**Electrode Configuration**

- **Plotting Point**
  - **X = 100 M.**

**Surface Projection of Anomalous Zone**

- **Definite**
- **Probable**
- **Possible**

**Frequencies 0.3 - 5.0 Hz.**

**Date Surveyed:** July 1980

**Note - Contours at Logarithmic Intervals**

- 1, -1.5, -2, -3, -5, -7.5, -10

---

**Phoenix Geophysics Limited**

**Induced Polarization and Resistivity Survey**

---

---

---

---

---

---

---

---
CORDILLERAN ENGINEERING LTD.
CARIBOUC GROUP, WATSON LAKE M.D.
YUKON TERRITORY

LINE NO. - 1800W

ELECTRODE CONFIGURATION

SURFACE PROJECTION
OF ANOMALOUS ZONE
DEFINITE
PROBABLE
POSSIBLE

FREQUENCIES 0.3-5.0 HZ.

NOTE - CONTOURS AT
LOGARITHMIC INTERVALS
1, -1.5, -2, -3, -5, -7.5, -10

PHOENIX GEOPHYSICS LIMITED
INDUCED POLARIZATION AND RESISTIVITY SURVEY

DATE SURVEYED: JULY 1980

EXPIRY DATE: FEBRUARY 25, 1981
### Caribou Claims - Line 1600W

**Dipole Number** | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9
---|---|---|---|---|---|---|---|---
**Coordinate** | 600N | 800N | 1000N | 1200N | 1400N | 1600N | 1800N | 2000N
**Interpretation**

- **N=1**
  - 433
  - 659
  - 1017
  - 1106
  - 950
  - 606
  - 950
  - 1122
  - 1646

- **N=2**
  - 354
  - 395
  - 437
  - 562
  - 340
  - 500
  - 792
  - 607

- **N=3**
  - 256
  - 245
  - 276
  - 287
  - 344
  - 422
  - 377

- **N=4**
  - 174
  - 210
  - 214
  - 311
  - 351
  - 238

- **N=5**
  - 157
  - 194
  - 265
  - 348
  - 253

---

### Electrode Configuration

**Electrode Configuration**

- **Plotting Point**
  - X = 100 M.

**Surface Projection of Anomalous Zone**

- **Definite**
- **Probable**
- **Possible**

---

### Frequencies 0.3 - 5.0 Hz

**Date Surveyed:** July 1980

**Approved:**

**Expries Date:** February 25, 1981

---

### Phoenix Geophysics Limited

**Induced Polarization and Resistivity Survey**
CORDILLERAN ENGINEERING LTD.
CARIBOU CLAIM GROUP, WATSON LAKE M.D.
YUKON TERRITORY

LINE NO. – 1400W

ELECTRODE CONFIGURATION

SURFACE PROJECTION
OF ANOMALOUS ZONE

DEFINITE

PROBABLE

POSSIBLE

FREQUENCIES 0.3–5.0 Hz.

NOTE – CONTOURS AT
LOGARITHMIC INTERVALS
1, 1.5, 2, 3, 5, 7.5, 10

PHOENIX GEOPHYSICS LIMITED
INDUCED POLARIZATION AND RESISTIVITY SURVEY

DATE SURVEYED: JULY 1980

PHOENIX GEOPHYSICS LIMITED

EXPIRY DATE: FEBRUARY 25, 1984

DRAWN: 1980

 APPROVED: 1980
### CARIBOU CLAIMS: LINE-1000W

#### X = 100 M

<table>
<thead>
<tr>
<th>Dipole Number</th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
<th>6</th>
<th>7</th>
<th>8</th>
</tr>
</thead>
<tbody>
<tr>
<td>Coordinate</td>
<td>700N</td>
<td>900N</td>
<td>1100N</td>
<td>1300N</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Interpretation</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**N = 1**
- 1002
- 1448
- 1253
- 1196
- 814
- 665
- 501
- 1393

**N = 2**
- 768
- 834
- 727
- 535
- 660
- 577
- 486

**N = 3**
- 500
- 633
- 326
- 475
- 596
- 399

**N = 4**
- 419
- 305
- 367
- 425
- 393

**N = 5**
- 218
- 363
- 321
- 290

---

### CARIBOU CLAIMS: LINE-1000W

#### X = 100 M

<table>
<thead>
<tr>
<th>Dipole Number</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
<th>6</th>
<th>7</th>
<th>8</th>
</tr>
</thead>
<tbody>
<tr>
<td>Coordinate</td>
<td>700N</td>
<td>900N</td>
<td>1100N</td>
<td>1300N</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Interpretation</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**N = 1**
- 3.5
- 2.3
- 4.0
- 3.8
- 4.5
- 7.0
- 6.0
- 3.2

**N = 2**
- 5.8
- 7.4
- 7.0
- 8.3
- 6.0
- 7.1
- 7.9

**N = 3**
- 8.9
- 8.0
- 11
- 10
- 8.0
- 8.1

**N = 4**
- 6.9
- 11
- 9.2
- 9.2
- 9.3

**N = 5**
- 11
- 9.0
- 9.0
- 9.0

---

### CARIBOU CLAIMS: LINE-1000W

#### X = 100 M

<table>
<thead>
<tr>
<th>Dipole Number</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
<th>6</th>
<th>7</th>
<th>8</th>
</tr>
</thead>
<tbody>
<tr>
<td>Coordinate</td>
<td>700N</td>
<td>900N</td>
<td>1100N</td>
<td>1300N</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Interpretation</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**N = 1**
- 3.4
- 1.5
- 3.1
- 3.1
- 5.5
- 11
- 7.4
- 2.2

**N = 2**
- 7.5
- 8.8
- 9.6
- 15
- 12
- 12
- 16

**N = 3**
- 18
- 13
- 32
- 21
- 14
- 20

**N = 4**
- 21
- 34
- 25
- 22
- 24

**N = 5**
- 50
- 25
- 28
- 34

---

**CORDILLERAN ENGINEERING LTD.**

**CARIBOU CLAIM GROUP, WATSON LAKE M.D.**

**YUKON TERRITORY**

**LINE NO. - 1000W**

**ELECTRODE CONFIGURATION**

**PLOTTING POINT X = 100 M.**

**SURFACE PROJECTION OF ANOMALOUS ZONE**

**DEFINITE**

**PROBABLE**

**POSSIBLE**

**FREQUENCIES 0.3 - 5.0 HZ.**

**DATE SURVEYED: JULY 1980**

**APPROVED: PHILIP A. W. WILSON**

**DATE**

**EXPIRY DATE: FEBRUARY 25, 1981**

**PHOENIX GEOPHYSICS LIMITED**

**INDUCED POLARIZATION AND RESISTIVITY SURVEY**