WATSON LAKE M.D.

MAP No.
105 B
7, 8, 9, 10

ASSESSMENT REPORT ☐
N. M. E. A. P. ☐
CONFIDENTIAL ☐
OPEN FILE ☐

TYPE OF WORK: GEOLOGICAL, GEOCHEMICAL, GEOPHYSICAL, TRENCHING

REPORT FILED UNDER	CORDILLERAN ENGINEERING	DOCUMENT NO. **091783**
DATE PERFORMED	AUGUST - SEPTEMBER 1985	DATE FILED: 17 FEBRUARY 1986
LOCATION - LAT.	60°30'N	AREA: RANCHERIA
LONG.	130°27'W	
CLAIM NO.	LOGAN 1-6 YA45047-YA45052	
	LOGAN 7-36 YA46254-YA46283	
	LOGAN 37-88 YA71027-YA71078	
VALUE $ 36,600.00	LOGAN 89-94 YA71360-YA71365	
WORK DONE BY	M.A. STAMMERS	
WORK DONE FOR	REGIONAL RESOURCES LTD. AND GETTY CANADIAN METALS LTD.	

REMARKS

70-LOGAN

In 1985, an extensive field program included grid preparation, fill-in soil geochemistry, I.P. geophysics, prospecting, hand sampling and geologic mapping was carried out.

The season's work explored the East Zone in detail. Trenching has uncovered a 1.5 m zone of silicified, pegmatitic granodiorite which assayed 219 g/t Ag, 0.11% Sn and 0.21% Pb.

091783

GEOLOGICAL, GEOCHEMICAL, GEOPHYSICAL & HAND TRENCHING REPORT

On The LOGAN 1-94 Mineral Claims

Watson Lake Mining District, Y.T.
Latitude 60°30'N; Longitude 130°27'W, NTS: 105/B-7,8,9,10

By: Michael A. Stammers, B.A., F.G.A.C, Geologist

FEBRUARY, 1986 **091783**

091783

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 $ 36,600.00 .

17 March 1986

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

1985 ASSESSMENT REPORT

GEOLOGICAL, GEOCHEMICAL, GEOPHYSICAL & HAND TRENCHING REPORT

ON THE

LOGAN 1-94 MINERAL CLAIMS

Watson Lake Mining District, Yukon Territory
Latitude 60°30'N, Longitude 130°27'W
NTS: 105/B-7,8,9,10

FOR

REGIONAL RESOURCES LTD.
Vancouver, British Columbia

and

GETTY CANADIAN METALS, LIMITED
Toronto, Ontario

BY

Michael A. Stammers, B.A., F.G.A.C.
Geologist

CORDILLERAN ENGINEERING
1980-1055 W. Hastings Street
Vancouver, B.C. V6E 2E9

Work Performed Between: August 4, 1985 and September 11, 1985
Date of Report: February, 1986

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APPENDICES

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1.0 SUMMARY AND CONCLUSIONS

The Logan property consists of 94 contiguous mineral claims in the Watson Lake Mining District (NTS: 105/B-7,8,9,10), located 108 kilometres northwest of Watson Lake, Yukon, and 38 kilometres north of the Alaska Highway. Staking of the Logan claims was initiated in July 1979 and completed by July 1984. Property acquisition and subsequent work have been conducted by Cordilleran Engineering on behalf of Regional Resources Ltd. The Logan property is currently under option to Getty Canadian Metals, Limited.

The Logan claims cover mixed forest, subalpine and alpine terrain with poor to fair exposure of rock units. Present access is by helicopter.

During the 1985 field season work included grid preparation, fill-in soil geochemistry, Induced Polarization geophsyical surveys, prospecting, hand trenching and geological mapping. Previous work was completed on the property in 1979, 1980, 1982 and 1984 and included soil geochemistry, geophysical surveys, prospecting, geological mapping, grid preparation and hand trenching.

Previous field work and reports (see Bibliography) have defined and described the 1200-metre long by 150-metre wide Main Zone. Very strong Ag-Zn-Sn-Cu-Pb soil geochemical anomalies are coincident with moderate to strong IP results. Massive and disseminated sulfide showings with tetrahedrite, sphalerite, chalcopyrite, pyrite, arsenopyrite and an unidentified tin mineral have been located in place and as float. These occurrences are hosted by veins, stockworks and breccia bodies in high altered, greisen rocks.

The East Zone, centred at 22+00E, 1+50N, was explored in detail in 1985 with trenching, geophysics, geochemistry and geological mapping. Mineralization and geology are similar to that found in the Main Zone and cover an area 300 metres long by 50 metres wide. Induced Polarization surveys employing various dipole arrays have located moderate to strong anomalies over a 700 metre by 200 metre wide area. Fill-in soil sampling outlined a strong Ag-Pb anomaly measuring approximately 300 metres by 50 metres that remains open to the northeast. Hand trenching led to the discovery of silver-tin-lead mineralization at 21+25E, 1+00N. Chip samples taken across a 1.5 metre section of silicified, altered, pegmatitic granodiorite assayed 6.33 oz/ton Ag, 0.11% Sn and 0.21% Pb.

Geological, geochemical and geophsyical anomalies now extend over a 1200-metre long by 150-metre wide area in the Main Zone and over a 750-metre by 100-metre wide area in the East Zone. Diamond drilling is recommended to test the best Main and East Zone mineralization; and geophysical and geochemical anomalies. The potential for locating a significant, large tonnage stockwork or greisen-hosted polymetallic mineral deposit and/or high grade, vein-type deposit on the Logan property is considered excellent. Retention of the entire Logan claim group is strongly advised.

***

2.0 RECOMMENDATIONS

A first phase, helicopter-supported NQ wireline diamond drilling program comprising a total of 1000 metres in seven holes is recommended to test mineralization; and geochemical and geophysical anomalies. Of this total, two holes totalling 250 metres are proposed for the East Zone and five holes totalling 750 metres are designated for the Main Zone area. Proposed drill holes include setups on lines 21+00E and 22+00E in the East Zone, and on lines 2+00W, 0+00E, 2+00E and 4+00E in the Main Zone. Additional diamond drilling may be recommended as a second phase if results warrant.

Respectfully submitted

CORDILLERAN ENGINEERING

Michael A. Stammers, B.A.,F.G.A.C.
Geologist

MAS/z
February, 1986

3.0 INTRODUCTION

This report describes a program of geological, geochemical, geophysical and hand trenching work carried out on the Logan claim group during the period August 4, 1985 to September 11, 1985. This work was completed over the east, south and west-central part of the property.

The Logan group hosts vein, stockwork and breccia type polymetallic mineralization which has the potential to support either a large tonnage deposit of moderate grade or a smaller, higher grade mining operation.

3.1 Location and Access

The Logan property is located 108 kilometres northwest of Watson Lake, Yukon at latitude 60°30'W and longitude 130°27'W (Figure 1). The claims are situated 38 kilometres north of the Alaska Highway and 22 kilometres north of the Meister River property which has a four-wheel drive access road. Field operations were based out of a camp in the eastern claims area. Present access to the property is by helicopter.

3.2 Physiography and Climate

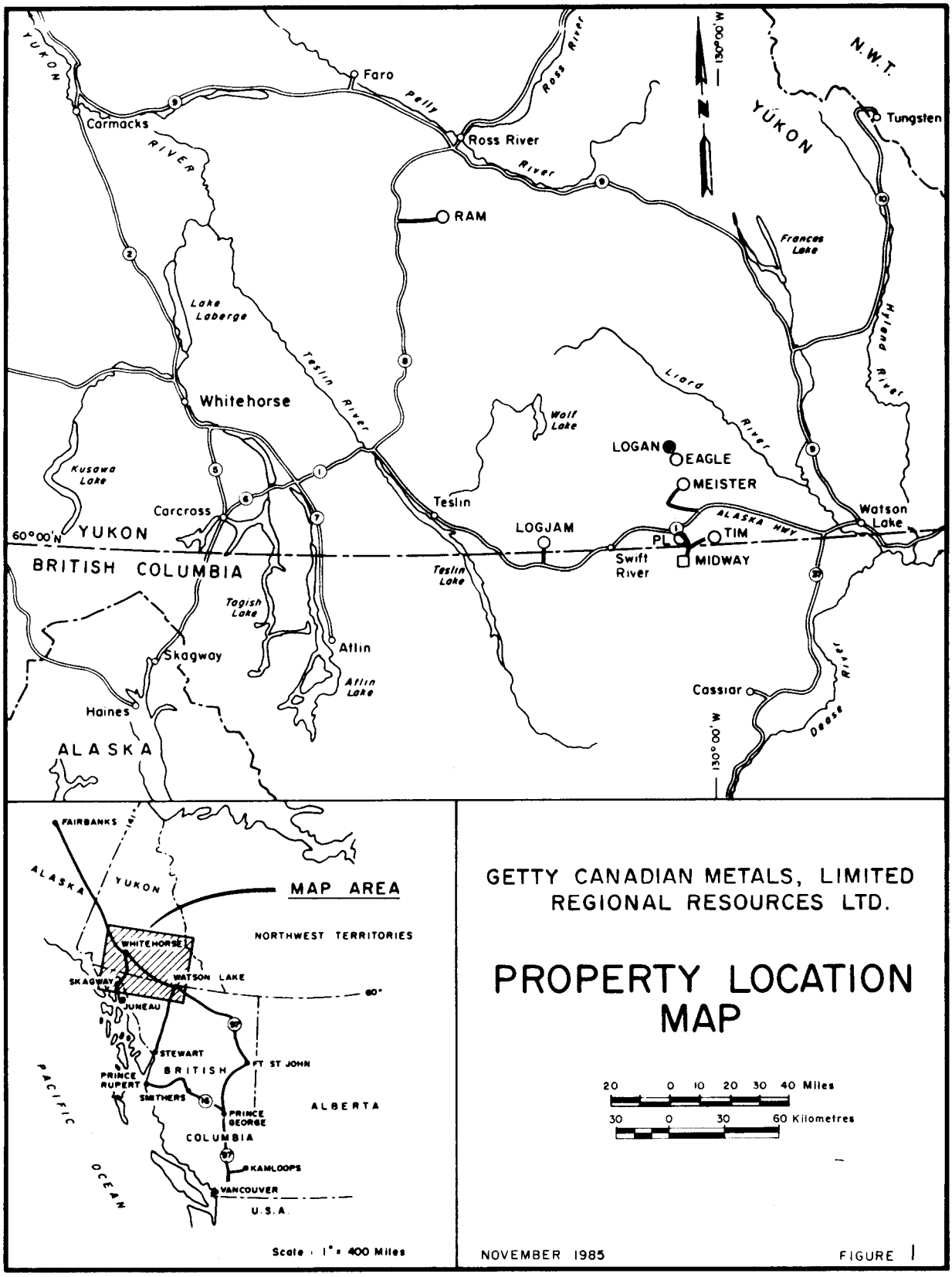
The claim group covers forest, subalpine, and apline terrain with gentle to steep relief and elevations ranging from 1280 to 1615 metres above sea level. A prominent east-west trending esker bisects the property.

Wild life spotted by crews in the claims area included black bear, moose, martin, wolverine and porcupine.

Climate in the Logan property area is characterized by short, warm summers and long, cold winters. Precipitation is light to moderate year round. The best exploration season lasts from early June until the end of September.

3.3 Exploration History

Initial staking (Logan 1-6) was undertaken in July 1979 to cover a gossan-related new discovery of silver-zinc-tin-copper-lead mineralization.



GETTY CANADIAN METALS, LIMITED
REGIONAL RESOURCES LTD.

PROPERTY LOCATION MAP

20 0 10 20 30 40 Miles

30 0 30 60 Kilometres

NOVEMBER 1985

FIGURE 1

Subsequent staking was completed in October 1979 (Logan 7-36), in June 1984 (Logan 37-88) and in July 1984 (Logan 89-94) to protect areas having favourable geology and geochemistry.

Work conducted on the Logan claims in 1979 included geological mapping, soil and stream geochemical sampling, hand trenching and test IP and EM geophysical surveys. In 1980, the area southeast of the present claim boundary was explored with soil geochemistry. In 1982, soil sampling was completed in the areas of the West Zone and hand trenching was carried out over the Main Zone. In 1984, work included grid prepration, extensive geochemical soil sampling, geological mapping, hand trenching and Induced Polarization surveys.

To date, all work has been performed by Cordilleran Engineering on behalf of Regional Resources Ltd. and, since 1984, Getty Canadian Metals, Limited as the optionee.

3.4 1985 Exploration Program

A geological, geochemical, geophysical and trenching exploration program was conducted on the Logan 1-94 claim group during the 1985 field season.

Grid preparation included 15.0 km of cut line and 3.75 km of flag and compass line.

A total of 129 soil samples and 39 rock samples were collected from the Logan property and sent for analysis. In addition, five rock samples were sent for assay.

Geophysical surveys were carried out by Phoenix Geophysics Limited of Vancouver, B.C. This work included 11.0 km of 100 metre dipole-spread IP survey; 1.9 km of 50 metre dipole-spread IP survey; and 3.025 km of 25 metre dipole-spread IP surveys.

Geological mapping was completed at 1:500 scale over the East Zone. In addition geological mapping and prospecting were carried out in the area between the East and the Main Zones and in the south-central Logan claims area.

Hand trenching was completed on the Logan 88 mineral claim in the East Zone. Four test pits comprising approximately 2.8 cubic metres of excavated material failed to reach bedrock. Two trenches, 13.5 m and 10.0 m long respectively and representing 11.5 cubic metres successfully attained bedrock.

3.5 Claim Data

The Logan property consists of 94 contiguous quartz claims located in the Watson Lake Mining District, Yukon Territory (Figure 2). The claims are owned and operated by Regional Resources Ltd. of Vancouver, B.C. and area under option to Getty Canadian Metals, Limited of Toronto, Ontario. Table 1 lists claim data.

Table 1: CLAIM DATA

Claim Name	Record Numbers	Expiry Dates
Logan 1-6	YA 45047 - YA 45052	Dec. 31, 1987 - 1991*
Logan 7-36	YA 46254 - YA 46283	Dec. 31, 1987 - 1991
Logan 37-88	YA 71027 - YA 71078	June 8, 1990 - Dec. 31, 1993
Logan 89-94	YA 71360 - YA 71365	July 26, 1986 - Dec. 31, 1990

*Pending receipt of Certificates of Work

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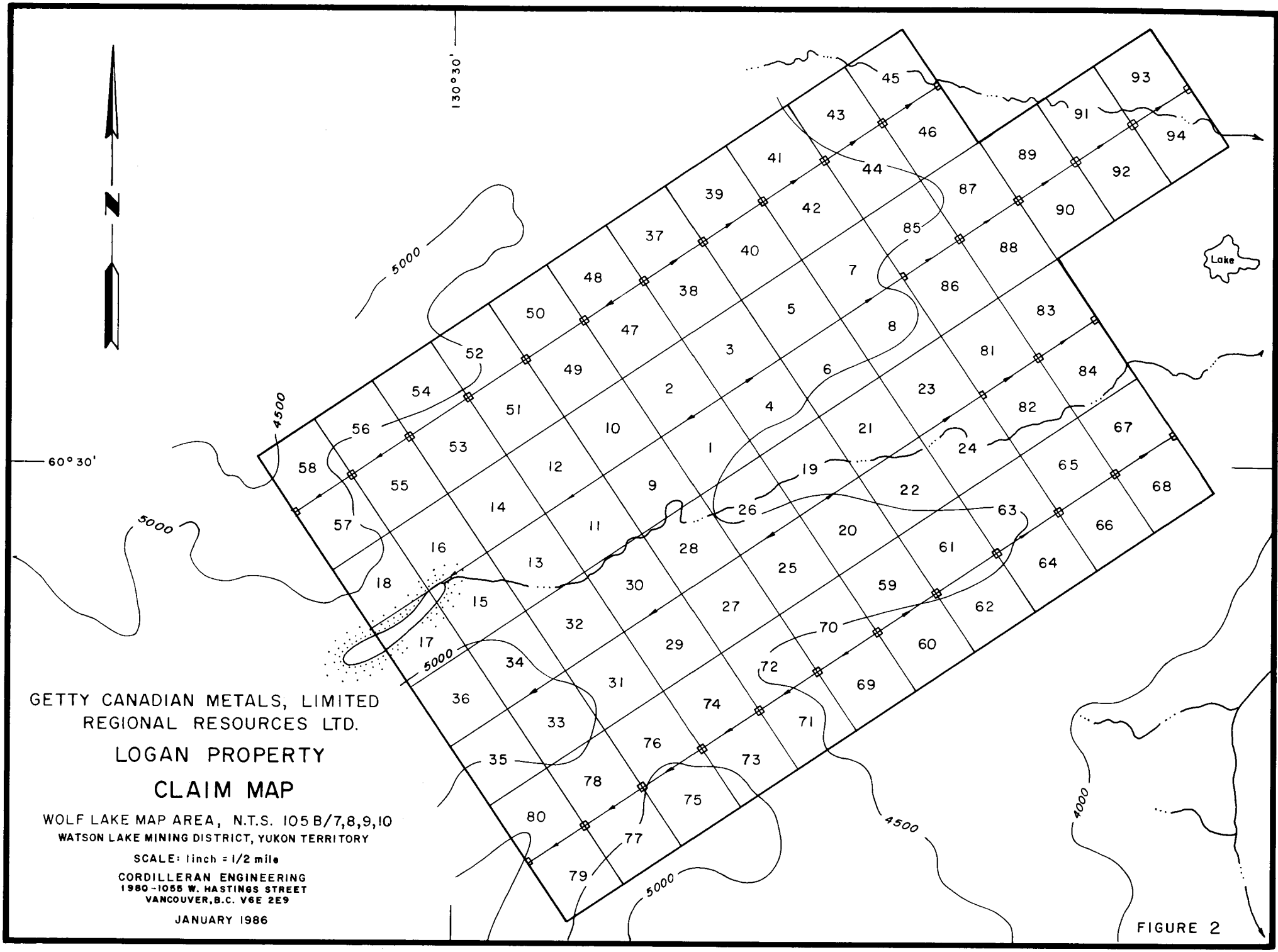
130°30'
60°30'
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4500
4000
Lake
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2
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GETTY CANADIAN METALS, LIMITED
REGIONAL RESOURCES LTD.
LOGAN PROPERTY
CLAIM MAP
WOLF LAKE MAP AREA, N.T.S. 105 B/7,8,9,10
WATSON LAKE MINING DISTRICT, YUKON TERRITORY
SCALE: 1inch = 1/2 mile
CORDILLERAN ENGINEERING
1980-1055 W. HASTINGS STREET
VANCOUVER, B.C. V6E 2E9
JANUARY 1986
FIGURE 2

091783

WORK LOCATION MAP

LINECUTTING

GEOLOGICAL / GEOCHEMICAL

HAND TRENCHING (T)

GEOPHYSICAL SURVEYS (APPLIED)

N

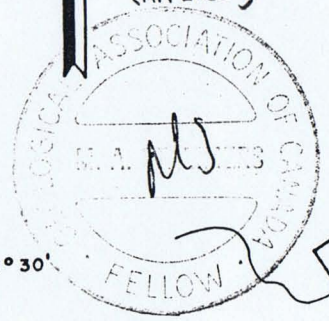
130°30'

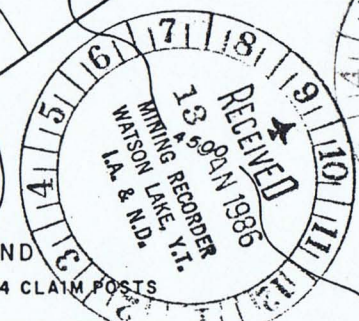
60°30'

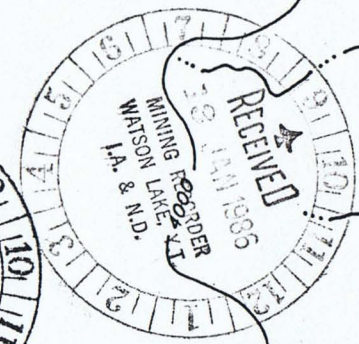
5000

4500

Lake







GETTY CANADIAN METALS, LIMITED
REGIONAL RESOURCES LTD.

LOGAN PROPERTY

CLAIM MAP

WOLF LAKE MAP AREA, N.T.S. 105 B/7,8,9,10
WATSON LAKE MINING DISTRICT, YUKON TERRITORY

SCALE: 1inch = 1/2 mile

CORDILLERAN ENGINEERING
1980-1055 W. HASTINGS STREET
VANCOUVER, B.C. V6E 2E9

LEGEND

⊕ 1984 CLAIM POSTS

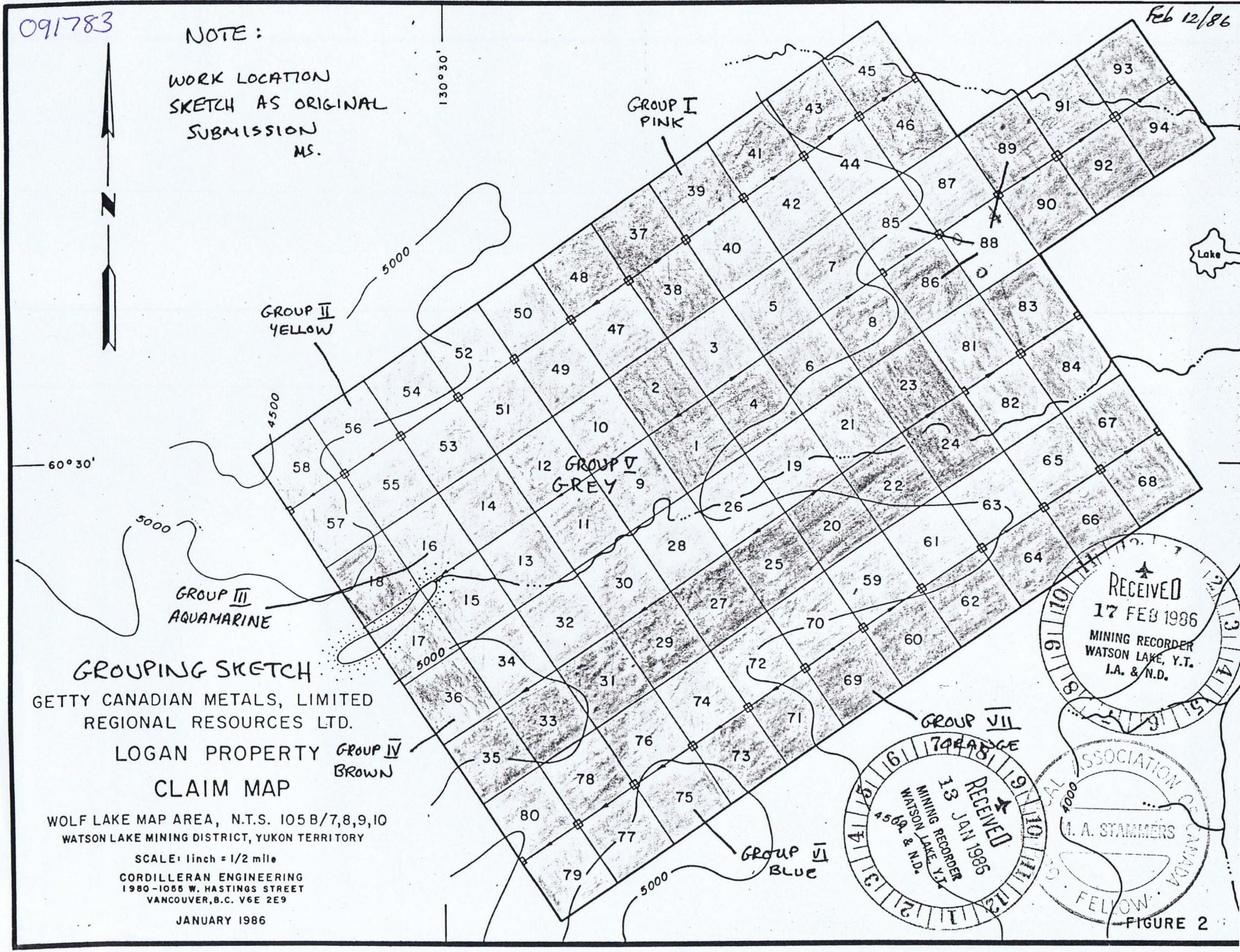
FIGURE 2

091783

Feb 12/86

NOTE:

WORK LOCATION SKETCH AS ORIGINAL SUBMISSION MS.



GROUPING SKETCH

GETTY CANADIAN METALS, LIMITED
REGIONAL RESOURCES LTD.

LOGAN PROPERTY

CLAIM MAP

WOLF LAKE MAP AREA, N.T.S. 105 B/7,8,9,10
WATSON LAKE MINING DISTRICT, YUKON TERRITORY

SCALE: 1inch = 1/2 mile

CORDILLERAN ENGINEERING
1980-1055 W. HASTINGS STREET
VANCOUVER, B.C. V6E 2E9

JANUARY 1986

FIGURE 2

4.0 GEOLOGY AND MINERALIZATION

4.1 East Zone (Plate 1)

The East Zone extends over a 700-metre long by 75-metre wide area with the best mineralization and strongest geochemical and geophysical responses centred at 22+00E, 1+50N. The area is underlain by variably altered, medium grained, equigranular granodiorite. Exposure is poor and is limited to a few outcrops and frost-heaved boulder fields. Two major linears cross the East Zone at 040° and 065°, the latter is associated with a normal fault. Mineralization consists of tetrahedrite, sphalerite, galena, pyrite and arsenopyrite. Quartz veins, stockworks and silicified granodiorite host the disseminated sulfides. Previously reported results from grab samples include values to 23.67 oz/ton Ag; 6.20% Zn, 1.93% Pb, 1000 ppm Sn and >1000 ppm As. Results of trenching and soil sampling are discussed later in this report.

4.2 Other Areas (Plate 2)

Geological mapping and prospecting were also carried out in the south and east-central areas of the Logan property. This work was greatly restricted due to the very poor exposure of rock units.

Detailed prospecting was completed in the area ("east-central") between the Main and East Zone mineral occurrences. No new discoveries were made and again surface exploration was made difficult by extensive valley fill and other pervasive overburden conditions. Five rock samples were collected from the area and results for gold, gallium, tin and silver were at or below background levels.

Mapping and detailed prospecting work was carried out over the south-central and southeast Logan claims in areas having previously well defined soil geochemical anomalies. Exposure is restricted to widely scattered outcrops of pegmatitic granodiorite. Three rock samples collected from either suboutcrop or float material returned results highly anomalous in tin at the two suboutcrop localities and in lead-zinc-silver-arsenic-tin at the float locality. Elevated tin values of 2600 ppm Sn and 1040 ppm Sn were returned from clay-altered pegmatitic granodiorite crosscut by quartz-chalcedony veins. A mineralized float sample of highly altered granodiorite returned values of 11.49 oz/ton Ag, 2.40% Zn, 1415 ppm Pb, 4300 ppm Cu and 310 ppm Sn.

***

5.0 GEOCHEMISTRY

5.1 Introduction and Analytical Methods

A total of 129 samples were collected from the "B" soil horizon from 2 "fill-in" grids on the Logan property. In the East Zone samples were taken every 25 metres on lines 25 metres apart. Coverage in the "South Anomalous area" ranged from 100 metres by 50 metres to 25 metres by 25 metres over interesting areas.

Soil was placed in grid-numbered Kraft sample bags and sent to Bondar-Clegg and Company Ltd.'s North Vancouver, B.C. laboratory for preparation and analysis. There, the samples were dried and sieved to minus 80-mesh and this fraction was then digested using a hot extraction HNO_3 -HCl solution for Ag-As-Cu-Pb-Zn and a carbonate sinter extraction for W. Analysis was completed employing the following techniques: Standard atomic absorption for Ag-Cu-Pb-Zn; X-ray fluorescence for Ga-Sn; and Colormetric for As-W. Complete laboratory analytical reports are appended to this report.

5.2 East Zone (Figures 3-8)

A total of 95 soil samples were collected from a detailed 25-metre by 25-metre grid in the East Zone of the Logan property. A 300 metre long by 50 metre wide Ag-Pb anomaly, open to the north and east was outlined in the area with coincident geophysical anomalies and silver-lead-zinc-tin-arsenic mineralization. Less regular, Zn-As-Cu-Sn soil anomalies have also been outlined within the area of the Ag-Pb anomaly. The best three values recorded for each element from the East Zone are: 20.0, 18.0, 16.0 ppm Ag; >1000, 330, 150 ppm As; 135, 133, 114 ppm Cu; 970, 900, 655 ppm Pb; 2470, 955, 835 ppm Zn; and 340, 70, 67 ppm Sn.

5.3 South Anomalous Area (Figures 9-14)

Thirty-three soil samples were collected over an area of previously reported tin anomalies. Values from the earlier 1984 survey include 150, 125 and 120 ppm Sn. No additional anomalous tin results were returned from the 1985 detailed soil sampling. Discouraging results for Cu-Pb-Zn-Ag-As were also obtained. Maximum values for each element in the "South Anomalous area" are 21 ppm Cu, 37 ppm Pb, 373 ppm Zn, 0.7 ppm Ag and 32 ppm As.

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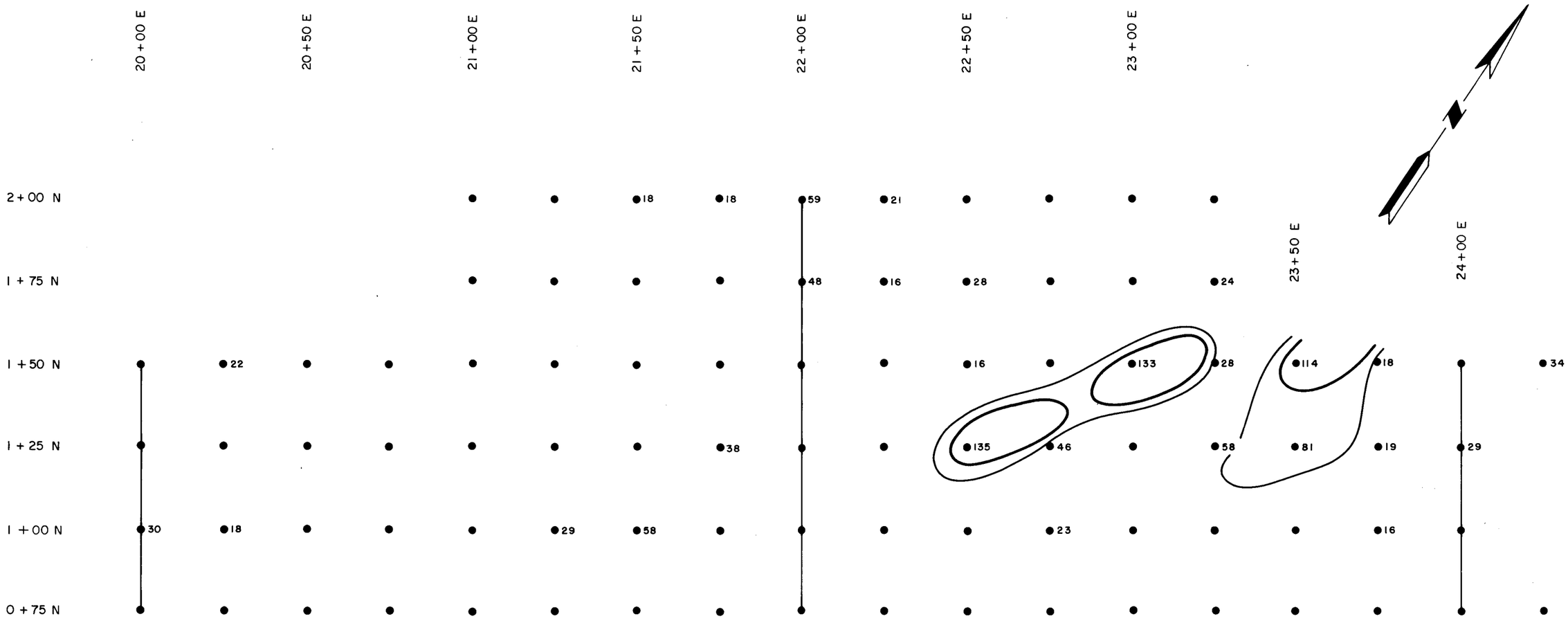
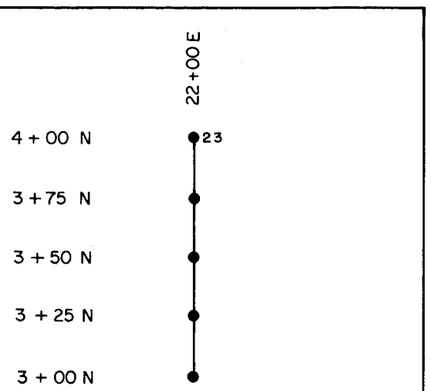




LINE 22+00 E INSERT

LEGEND

- Sample Location
- Cut Line
- 110 ppm Cu Contour
- 60 ppm Cu Contour

Values < 15 ppm Cu Not Plotted

GETTY CANADIAN METALS, LIMITED
REGIONAL RESOURCES LTD.

LOGAN PROPERTY

LOGAN EAST SHOWING

COPPER
SOIL GEOCHEMISTRY

WOLF LAKE MAP AREA, N.T.S. 105 B/7,8,9,10
WATSON LAKE MINING DISTRICT, YUKON TERRITORY

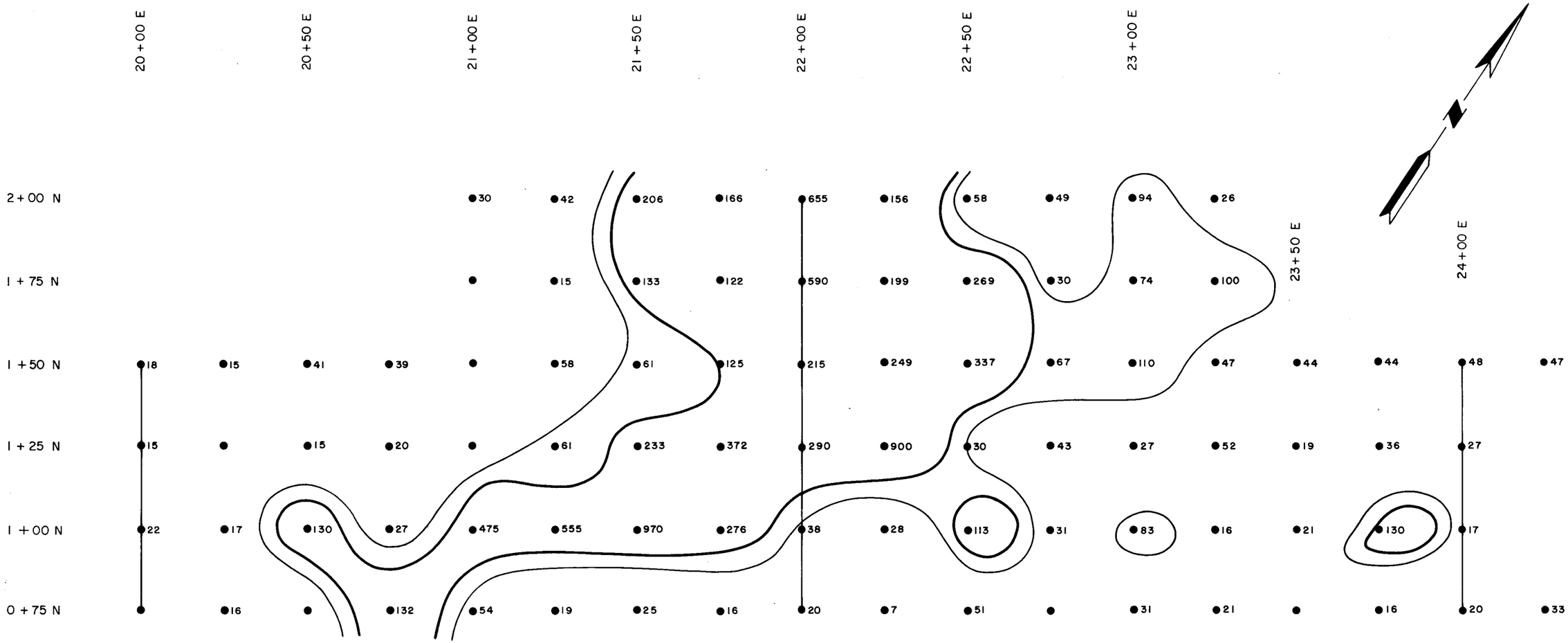
1 : 1250

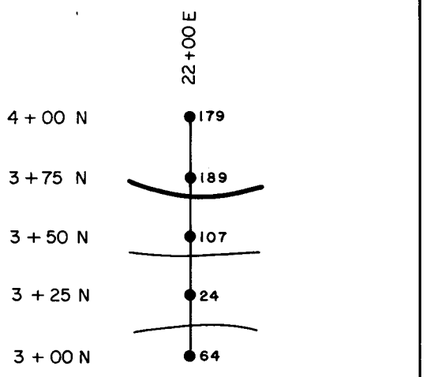
25 0 25 50 m

CORDILLERAN ENGINEERING
1980 - 1055 W. HASTINGS STREET
VANCOUVER, B.C. V6E 2E9

OCTOBER 1985

FIGURE 3





LINE 22+00E INSERT

LEGEND

- Sample Location
- Cut Line
- 110 ppm Pb Contour
- 60 ppm Pb Contour

Values < 15 ppm Pb Not Plotted

GETTY CANADIAN METALS, LIMITED
REGIONAL RESOURCES LTD.

LOGAN PROPERTY

LOGAN EAST SHOWING

LEAD SOIL GEOCHEMISTRY

WOLF LAKE MAP AREA, N.T.S. 105 B/7,8,9,10
WATSON LAKE MINING DISTRICT, YUKON TERRITORY

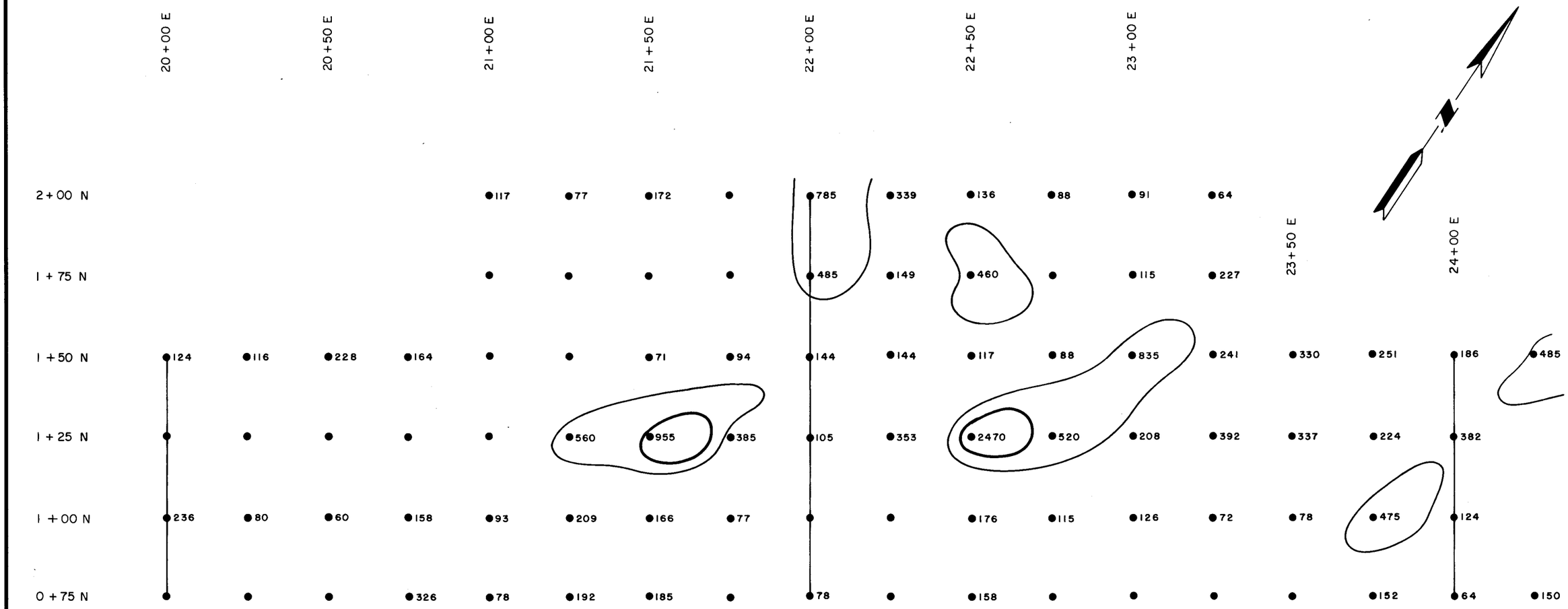
1 : 1250

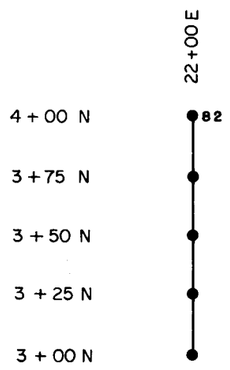
25 0 25 50 m

CORDILLERAN ENGINEERING
1980 - 1055 W. HASTINGS STREET
VANCOUVER, B.C. V6E 2E9

OCTOBER 1985

FIGURE 4





LINE 22+00E INSERT

LEGEND

- Sample Location
- Cut Line
- 850 ppm Zn Contour
- 400 ppm Zn Contour

Values <60 ppm Zn Not Plotted

GETTY CANADIAN METALS, LIMITED
REGIONAL RESOURCES LTD.

LOGAN PROPERTY

LOGAN EAST SHOWING

ZINC
SOIL GEOCHEMISTRY

WOLF LAKE MAP AREA, N.T.S. 105 B/7,8,9,10
WATSON LAKE MINING DISTRICT, YUKON TERRITORY

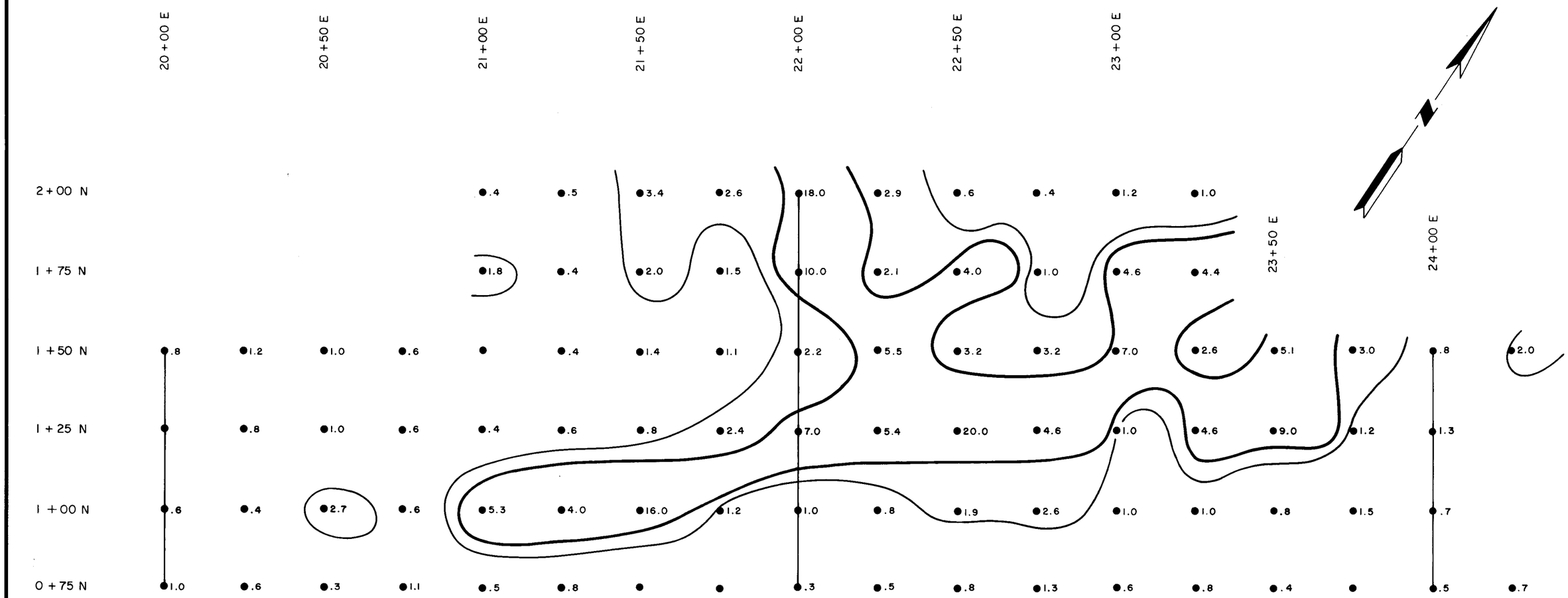
1 : 1250

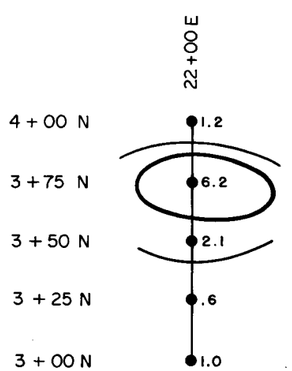
25 0 25 50 m

CORDILLERAN ENGINEERING
1980-1055 W. HASTINGS STREET
VANCOUVER, B.C. V6E 2E9

OCTOBER 1985

FIGURE 5





LINE 22+00E INSERT

LEGEND

- Sample Location
- Cut Line
- 3.6 ppm Ag Contour
- 1.7 ppm Ag Contour

Values ≤ .2 ppm Ag Not Plotted

GETTY CANADIAN METALS, LIMITED
REGIONAL RESOURCES LTD.

LOGAN PROPERTY

LOGAN EAST SHOWING

SILVER
SOIL GEOCHEMISTRY

WOLF LAKE MAP AREA, N.T.S. 105 B/7,8,9,10
WATSON LAKE MINING DISTRICT, YUKON TERRITORY

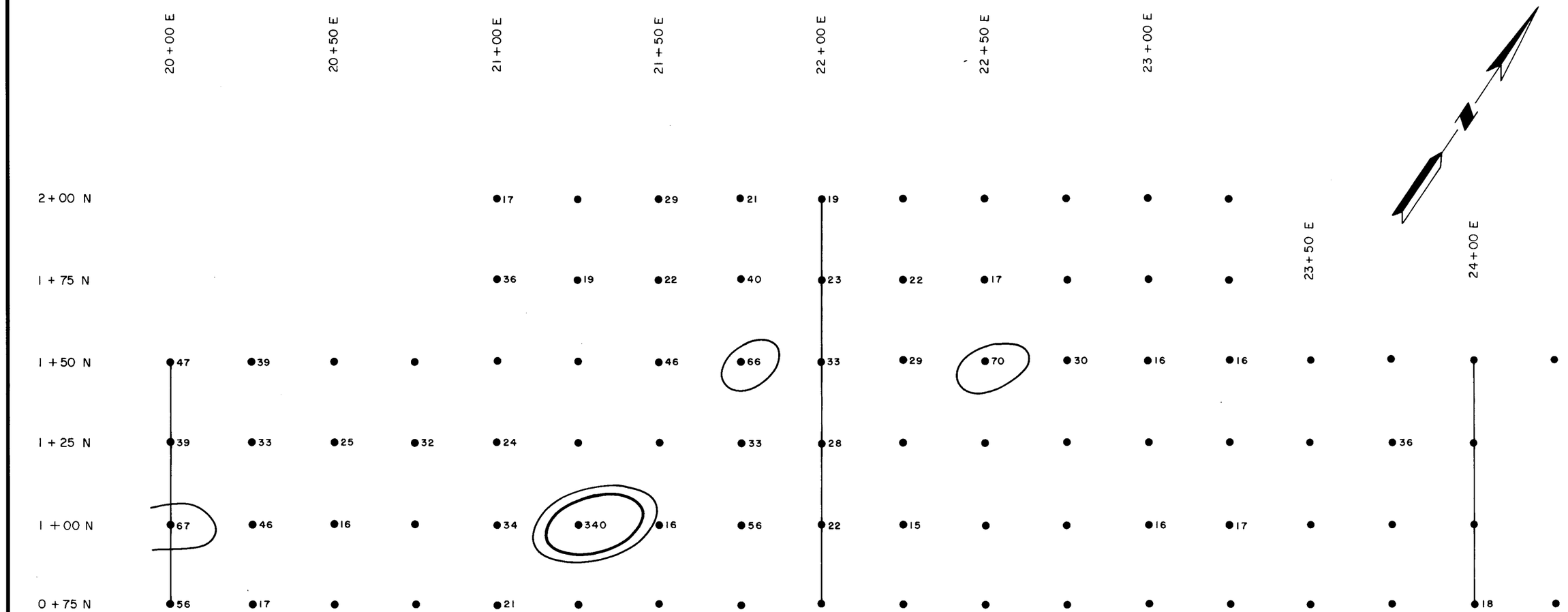
1 : 1250

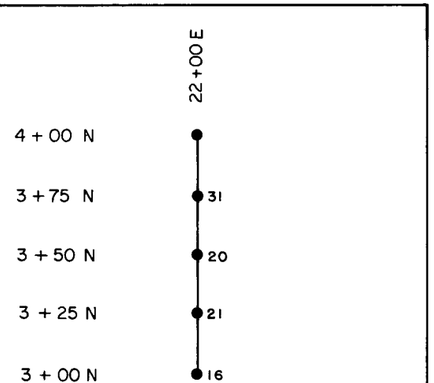
25 0 25 50 m

CORDILLERAN ENGINEERING
1980 - 1055 W. HASTINGS STREET
VANCOUVER, B.C. V6E 2E9

OCTOBER 1985

FIGURE 6





LINE 22+00E INSERT

LEGEND

- Sample Location
- Cut Line
- 100 ppm Sn Contour
- 60 ppm Sn Contour

Values < 15 ppm Sn Not Plotted

GETTY CANADIAN METALS, LIMITED
REGIONAL RESOURCES LTD.

LOGAN PROPERTY

LOGAN EAST SHOWING

TIN
SOIL GEOCHEMISTRY

WOLF LAKE MAP AREA, N.T.S. 105B/7,8,9,10
WATSON LAKE MINING DISTRICT, YUKON TERRITORY

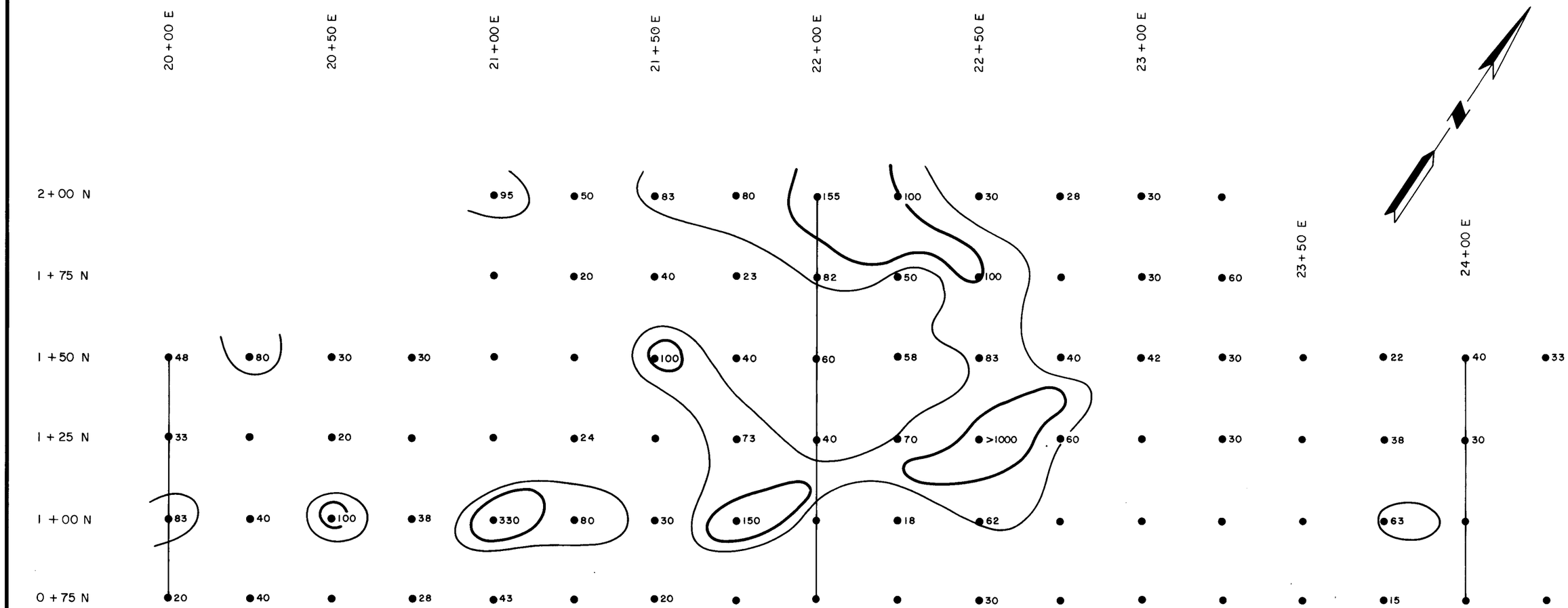
1 : 1250

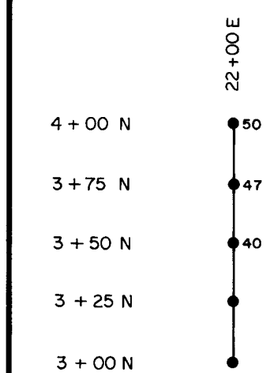
25 0 25 50 m

CORDILLERAN ENGINEERING
1980 - 1055 W. HASTINGS STREET
VANCOUVER, B.C. V6E 2E9

OCTOBER 1985

FIGURE 7





LINE 22+00E INSERT

LEGEND

- Sample Location
- Cut Line
- 100 ppm As Contour
- 60 ppm As Contour

Values < 15 ppm As Not Plotted

GETTY CANADIAN METALS, LIMITED
REGIONAL RESOURCES LTD.

LOGAN PROPERTY

LOGAN EAST SHOWING

ARSENIC
SOIL GEOCHEMISTRY

WOLF LAKE MAP AREA, N.T.S. 105 B/7,8,9,10
WATSON LAKE MINING DISTRICT, YUKON TERRITORY

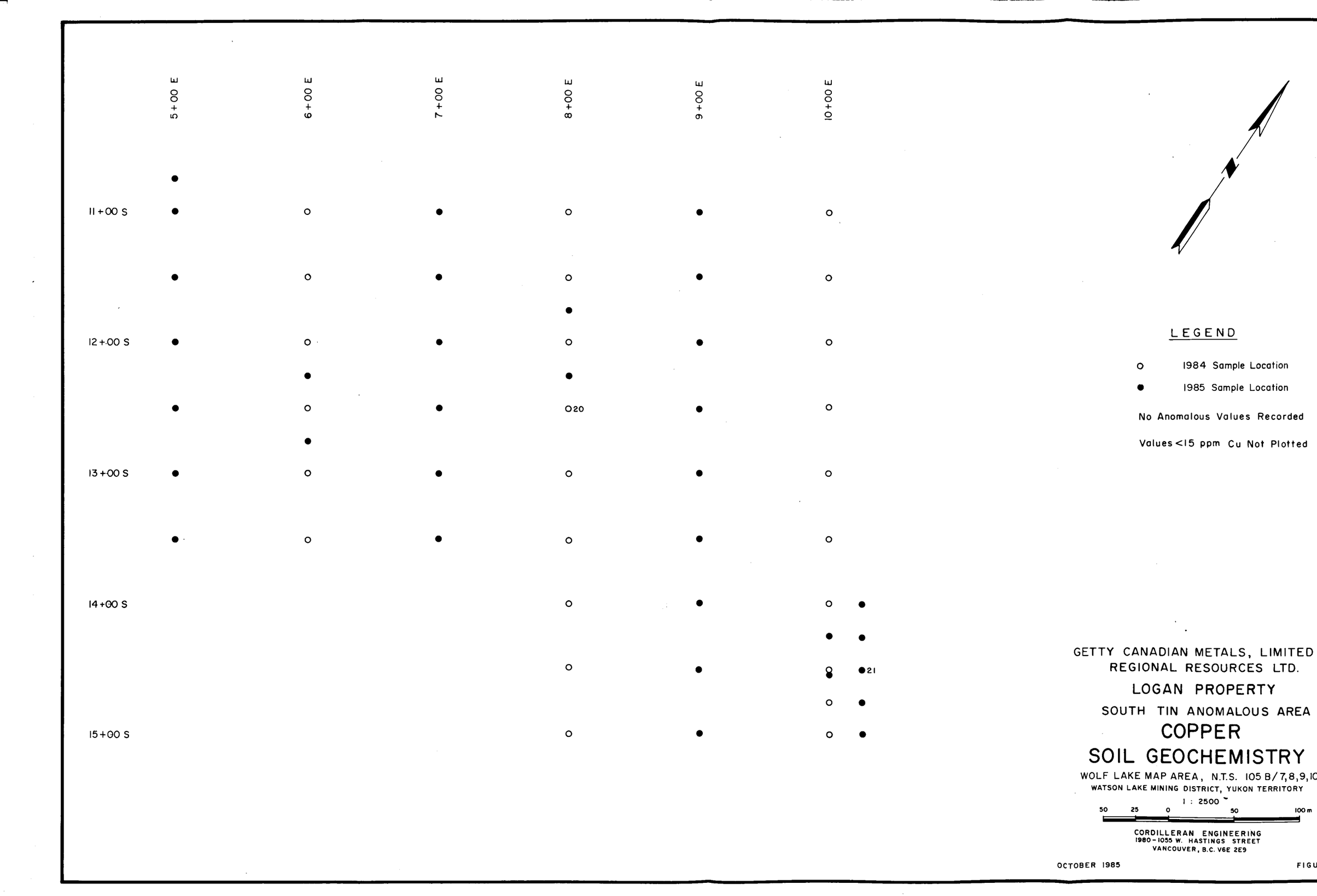
1 : 1250

25 0 25 50 m

CORDILLERAN ENGINEERING
1980 - 1055 W. HASTINGS STREET
VANCOUVER, B.C. V6E 2E9

OCTOBER 1985

FIGURE 8



LEGEND

○ 1984 Sample Location

● 1985 Sample Location

No Anomalous Values Recorded

Values <15 ppm Cu Not Plotted

GETTY CANADIAN METALS, LIMITED
REGIONAL RESOURCES LTD.

LOGAN PROPERTY

SOUTH TIN ANOMALOUS AREA

COPPER
SOIL GEOCHEMISTRY

WOLF LAKE MAP AREA, N.T.S. 105 B/7,8,9,10

WATSON LAKE MINING DISTRICT, YUKON TERRITORY

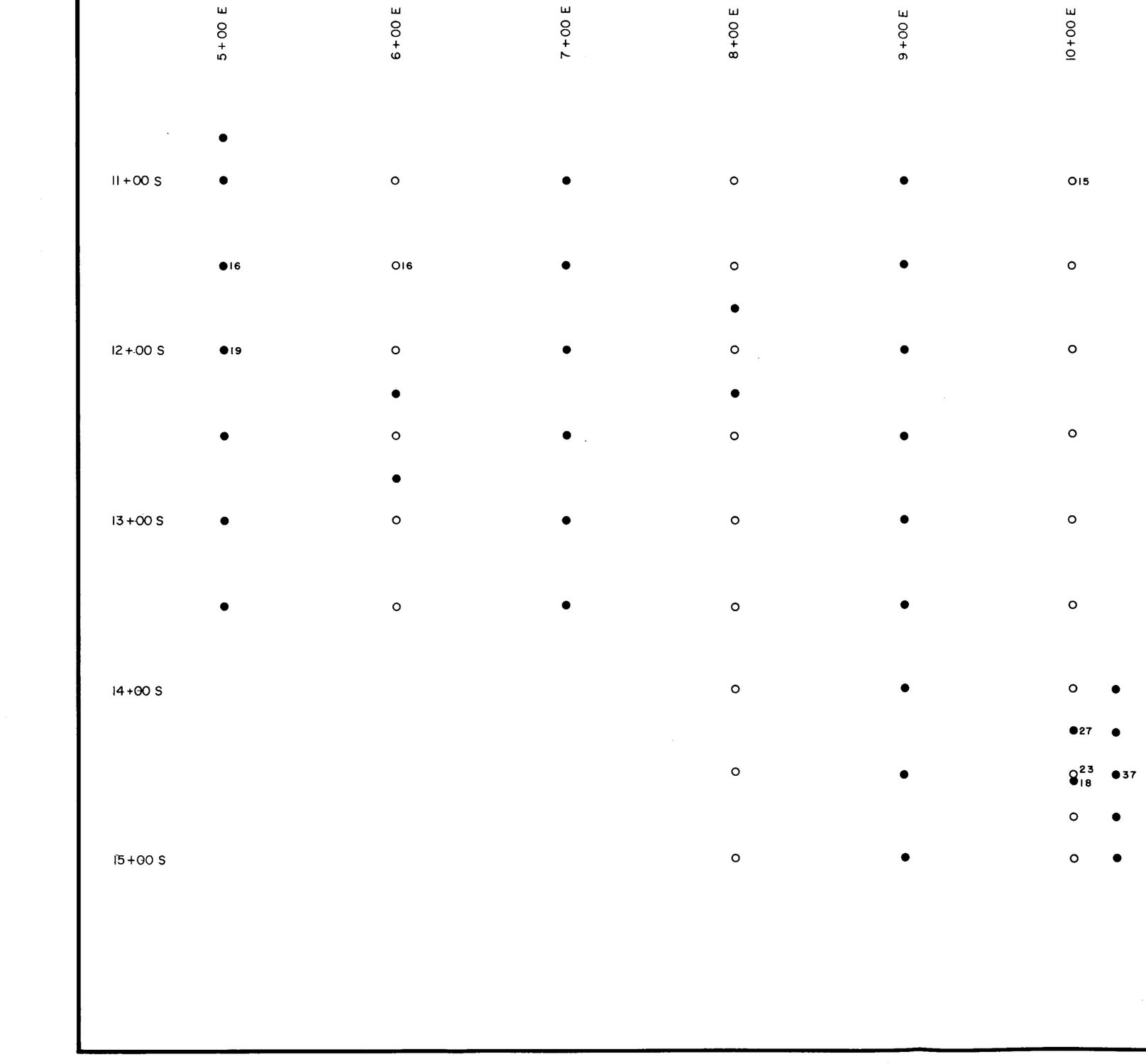
1 : 2500

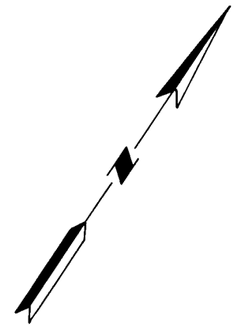
50 25 0 50 100 m

CORDILLERAN ENGINEERING
1980-1055 W. HASTINGS STREET
VANCOUVER, B.C. V6E 2E9

OCTOBER 1985

FIGURE 9





LEGEND

○ 1984 Sample Location

● 1985 Sample Location

No Anomalous Values Recorded

Values <15 ppm Pb Not Plotted

GETTY CANADIAN METALS, LIMITED
REGIONAL RESOURCES LTD.

LOGAN PROPERTY

SOUTH TIN ANOMALOUS AREA

LEAD
SOIL GEOCHEMISTRY

WOLF LAKE MAP AREA, N.T.S. 105 B/7,8,9,10

WATSON LAKE MINING DISTRICT, YUKON TERRITORY

1 : 2500

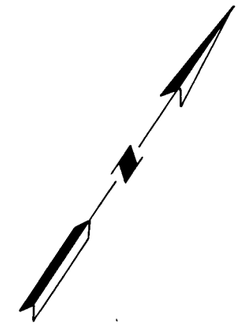
50 25 0 50 100 m

CORDILLERAN ENGINEERING
1980-1055 W. HASTINGS STREET
VANCOUVER, B.C. V6E 2E9

OCTOBER 1985

FIGURE 10

	5+00 E	6+00 E	7+00 E	8+00 E	9+00 E	10+00 E
	●195					
11+00 S	●177	O83	●74	O109	●	O78
	●183	O183	●	O67	●	O
				●152		
12+00 S	●117	O134	●178	O90	●	O65
		●		●122		
	●	O	●	O250	●	O
		●				
13+00 S	●128	O	●	O	●	O105
	●100	O	●74	O	●	O
14+00 S				O120	●	O62 ●
						●97 ●339
				O140	●	O283 ●373 ●306
						O ●
15+00 S				O95	●	O67 ●



LEGEND

O 1984 Sample Location

● 1985 Sample Location

No Anomalous Values Recorded

Values < 60 ppm Zn Not Plotted

GETTY CANADIAN METALS, LIMITED
REGIONAL RESOURCES LTD.

LOGAN PROPERTY

SOUTH TIN ANOMALOUS AREA

ZINC
SOIL GEOCHEMISTRY

WOLF LAKE MAP AREA, N.T.S. 105 B/7,8,9,10

WATSON LAKE MINING DISTRICT, YUKON TERRITORY

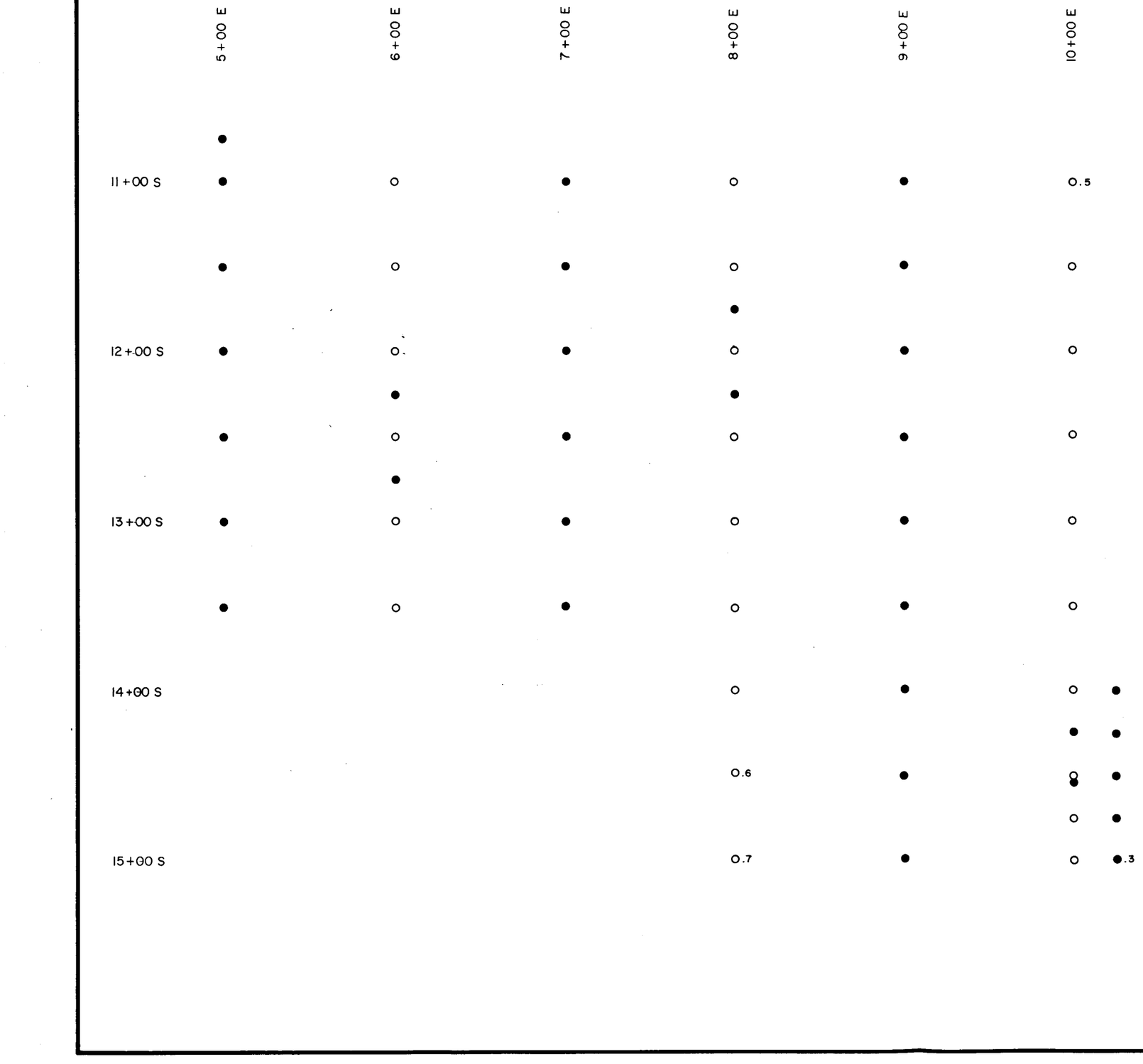
1 : 2500

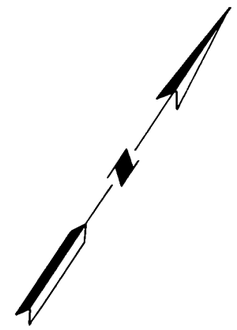
50 25 0 50 100 m

CORDILLERAN ENGINEERING
1980-1055 W. HASTINGS STREET
VANCOUVER, B.C. V6E 2E9

OCTOBER 1985

FIGURE 11





LEGEND

o 1984 Sample Location

● 1985 Sample Location

No Anomalous Values Recorded

Values ≤.2 ppm Ag Not Plotted

GETTY CANADIAN METALS, LIMITED
REGIONAL RESOURCES LTD.

LOGAN PROPERTY

SOUTH TIN ANOMALOUS AREA

SILVER
SOIL GEOCHEMISTRY

WOLF LAKE MAP AREA, N.T.S. 105 B/7,8,9,10

WATSON LAKE MINING DISTRICT, YUKON TERRITORY

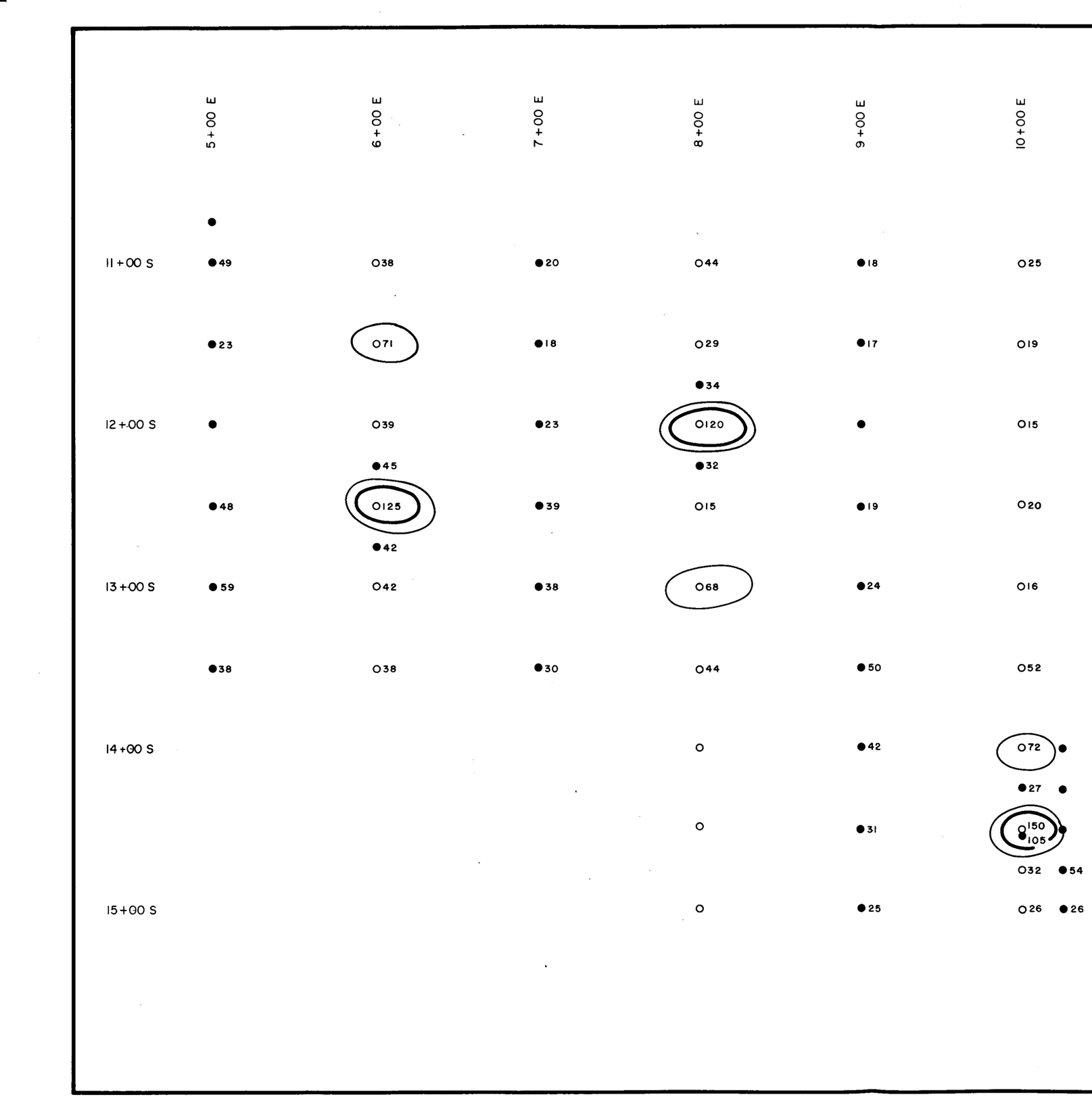
1 : 2500

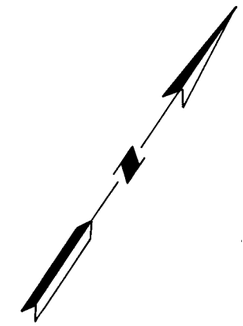
50 25 0 50 100 m

CORDILLERAN ENGINEERING
1980-1055 W. HASTINGS STREET
VANCOUVER, B.C. V6E 2E9

OCTOBER 1985

FIGURE 12





LEGEND

- 1984 Sample Location
- 1985 Sample Location
- 100 ppm Sn Contour
- 60 ppm Sn Contour

Values <15 ppm Sn Not Recorded

GETTY CANADIAN METALS, LIMITED
REGIONAL RESOURCES LTD.

LOGAN PROPERTY

SOUTH TIN ANOMALOUS AREA

TIN
SOIL GEOCHEMISTRY

WOLF LAKE MAP AREA, N.T.S. 105 B/7,8,9,10
WATSON LAKE MINING DISTRICT, YUKON TERRITORY

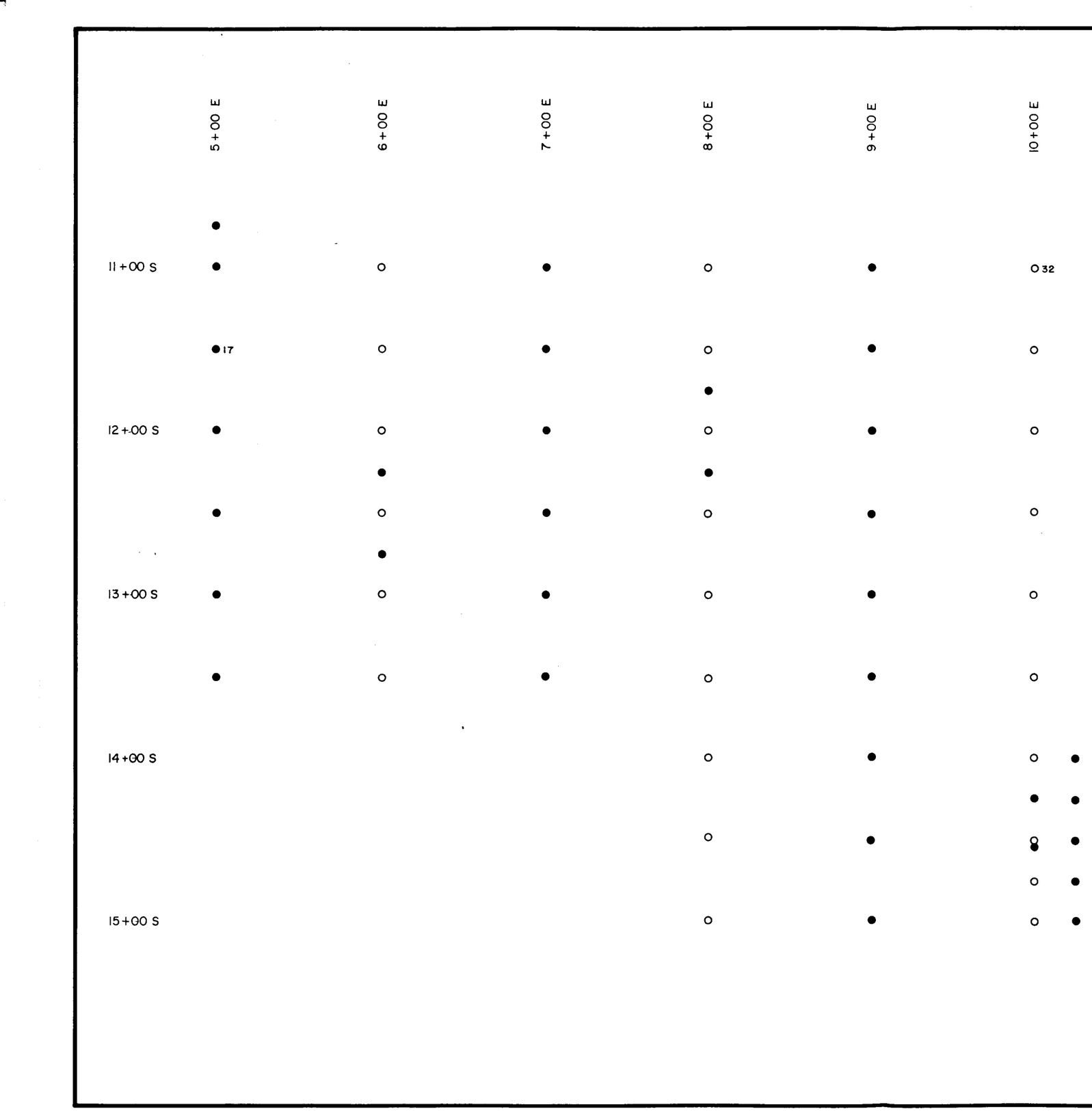
1 : 2500

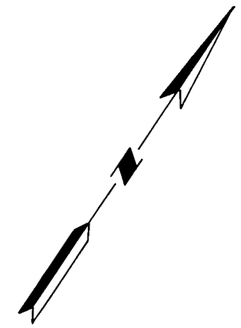
50 25 0 50 100 m

CORDILLERAN ENGINEERING
1980-1055 W. HASTINGS STREET
VANCOUVER, B.C. V6E 2E9

OCTOBER 1985

FIGURE 13





LEGEND

○ 1984 Sample Location

● 1985 Sample Location

No Anomalous Values Recorded

Values < 15 ppm As Not Plotted

GETTY CANADIAN METALS, LIMITED
REGIONAL RESOURCES LTD.

LOGAN PROPERTY

SOUTH TIN ANOMALOUS AREA

ARSENIC
SOIL GEOCHEMISTRY

WOLF LAKE MAP AREA, N.T.S. 105 B/7,8,9,10

WATSON LAKE MINING DISTRICT, YUKON TERRITORY

1 : 2500

50 25 0 50 100 m

CORDILLERAN ENGINEERING
1980 – 1055 W. HASTINGS STREET
VANCOUVER, B.C. V6E 2E9

OCTOBER 1985

FIGURE 14

6.0 GEOPHYSICS SUMMARY

(Plate 2)

Geophysical surveys were conducted east and west of the previous grid that was established in 1984. Coverage for Induced Polarization and Resistivity surveys now extends east from line 10+00W through the Main Zone and the East Zone to line 28+00E for a total length of 3.8 km. Significant geophysical anomalies warranting diamond drilling have been outlined over both the Main and East Zones.

Field procedure, complete results and recommendations of the 1985 surveys are presented as appended Geophysical Report by Phoenix Geophysics Limited of Vancouver, B.C. (Appendix "B").

***

7.0 TRENCHING SUMMARY

(Plate 1)

A total of 4 pits and 2 trenches were completed by hand with pick and shovel in the East Zone of the Logan property.

The four hand pits comprising 2.8 cubic metres failed to reach bedrock at each location due to the presence of very coarse boulder till. Two trenches, ELT 85-1 and ELT 85-2, 13.5 metres and 10.0 metres long respectively, intersected highly altered, variably silicified pegmatitic granodiorite bedrock. Mineralization including pyrite, arsenopyrite, tetrahedrite and iron-manganese oxides was discovered in both trenches. Results for rock sampling, with the sample interval and Ag-Pb-Zn-Sn-Cu-As analyses, are recorded on the table on Plate 1.

In trench ELT 85-1, highly anomalous results were obtained from chip sampling: values include up to 33.0, 25.0, 18.0 ppm Ag; 1600, 825, 810 ppm Pb; 6340, 5500, 2400 ppm Zn; 370, 220, 140 ppm Sn; 139, 130, 128 ppm Cu; and >1000, >1000, >1000 ppm As.

In trench ELT 85-2, highly anomalous silver-lead-tin results were obtained from chip sampling. The mineralized section remains unexplored to the north. Weighted averages over 1.5 and 3.0 metres respectively are 6.33 oz/ton Ag, 2133 ppm Pb and 1106 ppm Sn; and 2.56 oz/ton Ag. Arsenic values are also elevated through this section of the trench.

***

8.0 BIBLIOGRAPHY

1. Geological Survey of Canada, Map 10-1960.

2. Preliminary Evaluation of the Logan Claim Group
   For: Regional Resources Ltd., January 1980
   By: Cordilleran Engineering

3. Geochemical Report on the Logan Claim Group, Assessment Report
   For: Regional Resources Ltd., January 1981
   By: Cordilleran Engineering

4. Geochemical Report on the Logan Claim Group, Assessment Report
   For: Regional Resources Ltd., November 1982
   By: Cordilleran Engineering

5. Summary Report on the Logan Property
   For: Regional Resources Ltd., December 1983
   By: Cordilleran Engineering

6. 1984 Summary Report of Exploration on the Logan Claim Group
   For: Regional Resources Ltd., and Getty Canadian Metals, Limited
   February 1985
   By: Cordilleran Engineering

***

9.0 STATEMENT OF EXPENDITURES

CANADA)
)
)
TO WIT:)

In the matter of a Geological, Geochemical, Geophysical and Hand Trenching Report on the Logan 1-94 (inclusive) mineral claims on behalf of Regional Resources Ltd.

I, Michael A. Stammers, agent for Regional Resources Ltd.

of 1980-1055 W. Hastings Street, Vancouver, B.C. V6E 2E9

do solemnly declare, - that an exploration program was undertaken on the Logan property during the period August 4, 1985 to September 11, 1985 and the following expenses were incurred performing this work and in the later preparation of the report.

SALARIES: Field				
Geologist/Supervision	3 days x $120/d x 1.35*	.....	$ 486	
Geologist	17 days x $100/d x 1.35	.....	2,295	
Senior Assistant	16 days x $ 96/d x 1.35	.....	2,074	
Senior Assistant	7 days x $ 76/d x 1.35	.....	718	
Cook	17 days x $ 72/d x 1.35	.....	1,652	
		Sub Total field	7,225	
Office (Report Preparation)				
Geologist	15 days x $150/d	.....	2,250	
Geologist	5 days x $125/d	.....	625	
		Sub Total office	2,875	$10,100
PROFESSIONAL AND MANAGEMENT FEES (to Cordilleran Engineering)		.....		34,200
HELICOPTER (includes fuel)	24.8 hr x $475/hr	.....		11,780
LINECUTTING	15 km x $315/km	.....		4,725
CONTRACT GEOPHYSICS	.....			11,545
GEOCHEMICAL ANALYSIS	142 soils (Pb,Zn,Ag,Sn,As)	@ $14.15	2,009	
	39 rocks (Cu,Pb,Zn,Ag,Sn,Au,As,Ga)	@ various	817	2,826
ASSAYS	5 rocks (Pb,Zn,Ag,Au)	@ various		153
EQUIPMENT RENTAL, CAMP SUPPLIES, FUEL AND FOOD	.....			5,427
TRAVEL, TRUCKING, EXPEDITING, FREIGHT AND VEHICLE RENTAL	.....			1,222
OFFICE SUPPLIES, DRAFTING, PRINTING AND COMMUNICATIONS	.....			1,828
			TOTAL	$83,806

*Overtime & Benefits Factor

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 British Columbia **this**)
11th **day of** February **19**86)

E.A. Balon

A Commissioner for Oaths for Yukon Territory OR Notary Public for Yukon Territory

Mike Stammers

10.0 LIST OF PERSONNEL AND CONTRACTORS

PERSONNEL	Dates Worked (Field)	Mandays Worked
Melanie Boulding Senior Assistant Nanaimo, B.C.	August 24-30, 1985	= 7 mandays
David Coffin Senior Assistant Burnaby, B.C.	August 24-29, 31 and September 1-9, 1985	= 16 mandays
Wojtek Jakubowski Geologist Vancouver, B.C.	August 24 - September 9, 1985	= 17 mandays
Michael Stammers Geologist/Supervision Port Coquitlam, B.C.	August 24-25 and September 11, 1985	= 3 mandays
Colette Warburton Cook Whitehorse, Y.T.	August 24 - September 9, 1985	= 17 mandays

CONTRACTORS

C.M.Exploration Ltd. Linecutting Whitehorse, Y.T.	August 4-16, 1985	totalling	26 mandays
Phoenix Geophysics Limited Geophysical Surveys Vancouver, B.C.	August 20-30, 1985	totalling	33 mandays

***

CORDILLERAN ENGINEERING

1980 GUINNESS TOWER, 1055 WEST HASTINGS STREET, VANCOUVER, B.C. V6E 2E9 TEL: (604) 681-8381

11.0 WRITER'S CERTIFICATE

I, Michael A. Stammers of Port Coquitlam, British Columbia hereby certify that:

1. I am a geologist residing at 1134 Lombardy Drive, and employed by Cordilleran Engineering of 1980 - 1055 West Hastings Street.

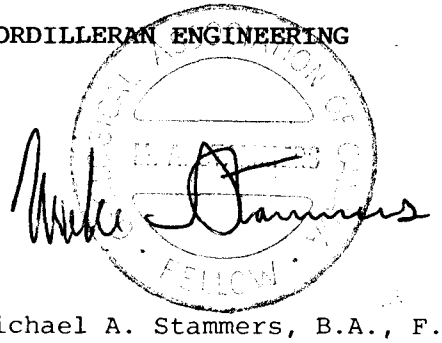
2. I have received a B.A. degree in Geology and Geography from McMaster University, Hamilton, Ontario in 1977 and I am a Fellow of the Geological Association of Canada.

3. I have practiced my profession for twelve years in British Columbia, Yukon and Northwest Territories.

4. I am the author of this report and the supervisor of the field work conducted on the Logan 1-94 claims by Cordilleran Engineering during the period August 4, 1985 to September 11, 1985.

5. I have no financial interest in the claims covered by this report or in Regional Resources Ltd.

CORDILLERAN ENGINEERING



Michael A. Stammers, B.A., F.G.A.C.
Geologist

MAS/z

February, 1986
Vancouver, B.C.

Appendix “A”
ANALYTICAL REPORTS

Bondar-Clegg & Company Ltd.
130 Pemberton Ave.
North Vancouver, B.C.
Canada V7P 2R5
Phone: (604) 985-0681
Telex: 04-352667

BONDAR-CLEGG

Geochemical Lab Report

REPORT: 125-2799 SOIL SAMPLES

PROJECT: LOGAN

SAMPLE NUMBER	ELEMENT UNITS	Cu PPM	Pb PPM	Zn PPM	Ag PPM	As PPM	Sn PPM	
S1 0+75N 20+00E		10	9	42	1.0	20	56	EAST SHOWING AREA
S1 0+75N 20+25E		6	16	53	0.6	40	17	
S1 0+75N 20+50E		1	7	7	0.3	5	<5	
S1 0+75N 20+75E		5	132	326	1.1	28	<5	
S1 0+75N 21+00E		4	54	78	0.5	43	21	
S1 0+75N 21+25E		3	19	192	0.8	6	<5	
S1 0+75N 21+50E		7	25	185	<0.2	20	<5	
S1 0+75N 21+75E		1	16	11	0.2	4	<5	
S1 0+75N 22+00E		4	20	78	0.3	12	<5	
S1 0+75N 22+25E		1	7	9	0.5	3	<5	
S1 0+75N 22+50E		7	51	158	0.8	30	<5	
S1 0+75N 22+75E		1	9	9	1.3	3	<5	
S1 0+75N 23+00E		3	31	29	0.6	6	<5	
S1 0+75N 23+25E		1	21	34	0.8	4	12	
S1 0+75N 23+50E		1	13	31	0.4	3	<5	
S1 0+75N 23+75E		5	16	152	0.2	15	<5	
S1 0+75N 24+00E		5	20	64	0.5	14	18	
S1 0+75N 24+25E		5	33	150	0.7	10	11	
S1 1+00N 20+00E		30	22	236	0.6	83	67	
S1 1+00N 20+25E		18	17	80	0.4	40	46	
S1 1+00N 20+50E		5	130	60	2.7	100	16	
S1 1+00N 20+75E		7	27	158	0.6	38	11	
S1 1+00N 21+00E		10	475	93	5.3	330	34	
S1 1+00N 21+25E		29	555	209	4.0	80	340	
S1 1+00N 21+50E		58	970	166	16.0	30	16	
S1 1+00N 21+75E		7	276	77	1.2	150	56	
S1 1+00N 22+00E		3	38	27	1.0	10	22	
S1 1+00N 22+25E		4	28	58	0.8	18	15	
S1 1+00N 22+50E		10	113	176	1.9	62	9	
S1 1+00N 22+75E		23	31	115	2.6	10	<5	
S1 1+00N 23+00E		7	83	126	1.0	13	16	
S1 1+00N 23+25E		10	16	72	1.0	11	17	
S1 1+00N 23+50E		6	21	78	0.8	14	<5	
S1 1+00N 23+75E		16	130	475	1.5	63	<5	
S1 1+00N 24+00E		8	17	124	0.7	14	<5	
S1 1+25N 20+00E		7	15	51	0.2	33	39	
S1 1+25N 20+25E		7	11	14	0.8	14	33	
S1 1+25N 20+50E		4	15	22	1.0	20	25	
S1 1+25N 20+75E		4	20	52	0.6	10	32	
S1 1+25N 21+00E		1	3	15	0.4	3	24	

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130 Pemberton Ave.
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Canada V7P 2R5
Phone: (604) 985-0681
Telex: 04-352667

BONDAR-CLEGG

Geochemical Lab Report

REPORT: 125-2799 SOIL SAMPLES | PROJECT: LOGAN | PAGE 2

SAMPLE NUMBER	ELEMENT UNITS	Cu PPM	Pb PPM	Zn PPM	Ag PPM	As PPM	Sn PPM	
S1 1+25N 21+25E		8	61	560	0.6	24	6	EAST SHOWING AREA
S1 1+25N 21+50E		2	233	955	0.8	2	<5	
S1 1+25N 21+75E		38	372	385	2.4	73	33	
S1 1+25N 22+00E		10	290	105	7.0	40	28	
S1 1+25N 22+25E		14	900	353	5.4	70	6	
S1 1+25N 22+50E		135	30	2470	20.0	>1000	<5	
S1 1+25N 22+75E		46	43	520	4.6	60	<5	
S1 1+25N 23+00E		8	27	208	1.0	13	6	
S1 1+25N 23+25E		58	52	392	4.6	30	<5	
S1 1+25N 23+50E		81	19	337	9.0	3	<5	
S1 1+25N 23+75E		19	36	224	1.2	38	36	
S1 1+25N 24+00E		29	27	382	1.3	30	<5	
S1 1+50N 20+00E		11	18	124	0.8	48	47	
S1 1+50N 20+25E		22	15	116	1.2	80	39	
S1 1+50N 20+50E		11	41	228	1.0	30	<5	
S1 1+50N 20+75E		9	39	164	0.6	30	<5	
S1 1+50N 21+00E		1	5	47	<0.2	3	<5	
S1 1+50N 21+25E		2	58	13	0.4	3	11	
S1 1+50N 21+50E		3	61	71	1.4	100	46	
S1 1+50N 21+75E		13	125	94	1.1	40	66	
S1 1+50N 22+00E		14	215	144	2.2	60	33	
S1 1+50N 22+25E		9	249	144	5.5	58	29	
S1 1+50N 22+50E		16	337	117	3.2	83	70	
S1 1+50N 22+75E		7	67	88	3.2	40	30	
S1 1+50N 23+00E		133	110	835	7.0	42	16	
S1 1+50N 23+25E		28	47	241	2.6	30	16	
S1 1+50N 23+50E		114	44	330	5.1	11	8	
S1 1+50N 23+75E		18	44	251	3.0	22	<5	
S1 1+50N 24+00E		14	48	186	0.8	40	8	
S1 1+50N 24+25E		34	47	405	2.0	33	6	
S1 1+75N 21+00E		2	14	42	1.8	11	36	
S1 1+75N 21+25E		3	15	29	0.4	20	19	
S1 1+75N 21+50E		12	133	56	2.0	40	22	
S1 1+75N 21+75E		12	122	54	1.5	23	40	
S1 1+75N 22+00E		48	590	405	10.0	82	23	
S1 1+75N 22+25E		16	199	149	2.1	50	22	
S1 1+75N 22+50E		28	269	460	4.0	100	17	
S1 1+75N 22+75E		2	30	7	1.0	4	11	
S1 1+75N 23+00E		12	74	115	4.6	30	<5	
S1 1+75N 23+25E		24	100	227	4.4	60	9	

Bondar-Clegg & Company Ltd.
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BONDAR-CLEGG

Geochemical Lab Report

REPORT: 125-2799 SOIL SAMPLES

PROJECT: LOGAN PAGE 3

SAMPLE NUMBER	ELEMENT UNITS	Cu PPM	Pb PPM	Zn PPM	Ag PPM	As PPM	Sn PPM	
S1 2+00N 21+00E		12	30	117	0.4	95	17	EAST SHOWING AREA
S1 2+00N 21+25E		6	42	77	0.5	50	9	
S1 2+00N 21+50E		18	206	172	3.4	83	29	
S1 2+00N 21+75E		18	166	21	2.6	80	21	
S1 2+00N 22+00E		59	655	785	18.0	155	19	
S1 2+00N 22+25E		21	156	339	2.9	100	8	
S1 2+00N 22+50E		9	58	136	0.6	30	8	
S1 2+00N 22+75E		7	49	88	0.4	28	10	
S1 2+00N 23+00E		10	94	91	1.2	30	12	
S1 2+00N 23+27E		5	26	64	1.0	10	12	
S1 5+00E 10+75S		12	10	195	<0.2	6	<5	SOUTH ANOMALOUS AREA
S1 5+00E 11+00S		8	10	177	<0.2	5	49	
S1 5+00E 11+50S		11	16	183	<0.2	17	23	
S1 5+00E 12+00S		6	19	117	<0.2	7	8	
S1 5+00E 12+50S		2	3	43	<0.2	3	48	
S1 5+00E 13+00S		8	9	128	<0.2	5	59	
S1 5+00E 13+50S		10	8	100	<0.2	5	38	
S1 6+00E 12+25S		2	<2	26	<0.2	3	45	
S1 6+00E 12+75S		1	<2	12	<0.2	3	42	
S1 7+00E 11+00S		6	6	74	<0.2	3	20	
S1 7+00E 11+50S		5	6	37	<0.2	2	18	
S1 7+00E 12+00S		8	6	178	<0.2	4	23	
S1 7+00E 12+50S		2	<2	14	<0.2	3	39	
S1 7+00E 13+00S		3	4	50	<0.2	5	38	
S1 7+00E 13+50S		5	7	74	0.2	4	30	
S1 8+00E 11+75S		14	10	152	<0.2	5	34	
S1 8+00E 12+25S		13	11	133	<0.2	5	32	
S1 9+00E 11+00S		1	4	9	<0.2	4	18	
S1 9+00E 11+50S		2	3	8	<0.2	4	17	
S1 9+00E 12+00S		2	<2	18	<0.2	3	13	
S1 9+00E 12+50S		3	4	20	<0.2	3	19	
S1 9+00E 13+00S		7	8	20	<0.2	3	24	
S1 9+00E 13+50S		2	10	13	<0.2	2	50	
S1 9+00E 14+00S		1	3	13	<0.2	4	42	
S1 9+00E 14+50S		2	4	13	<0.2	3	31	
S1 9+00E 15+00S		2	9	19	<0.2	3	25	
S1 10+00E 14+25S		10	27	97	<0.2	10	27	
S1 10+00E 14+50S		12	18	306	0.2	5	105	
S1 10+00E 14+75S		6	9	47	<0.2	6	32	
S1 10+25E 14+00S		5	11	41	<0.2	5	14	

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Geochemical Lab Report

REPORT: 125-2799 SOIL SAMPLES | PROJECT: LOGAN | PAGE 4

SAMPLE NUMBER	ELEMENT UNITS	Cu PPM	Pb PPM	Zn PPM	Ag PPM	As PPM	Sn PPM	
S1 10+25E 14+25S		14	8	339	<0.2	8	11	SOUTH ANOMALOUS AREA
S1 10+25E 14+50S		21	37	373	<0.2	11	9	
S1 10+25E 14+75S		2	10	28	<0.2	4	54	
S1 10+25E 15+00S		2	6	38	0.3	3	26	
S1 11+00E 2+50S		11	17	72	1.4	18	14	MAIN SHOWING AREA (EAST EXTENSION)
S1 11+00E 3+00S		19	30	100	1.9	50	35	
S1 11+00E 3+50S		17	59	86	0.8	90	39	
S1 11+00E 4+00S		46	121	530	9.7	220	29	
S1 11+00E 4+50S		50	57	251	1.7	95	32	
S1 11+00E 5+00S		24	50	455	1.3	140	22	
S1 13+00E 1+00S		15	29	329	<0.2	130	25	
S1 13+00E 1+50S		11	25	160	0.2	80	48	
S1 13+00E 2+00S		8	43	153	0.2	10	32	
S1 13+00E 2+50S		14	20	56	0.8	23	49	
S1 13+00E 3+00S		10	13	37	1.1	27	58	
S1 13+00E 3+50S		26	13	119	0.4	40	71	
S1 13+00E 4+50S		52	87	242	1.0	80	30	
S1 22+00E 3+00N		4	64	38	1.0	12	16	EAST SHOWING AREA
S1 22+00E 3+25N		1	24	15	0.6	3	21	
S1 22+00E 3+50N		11	107	54	2.1	40	20	
S1 22+00E 3+75N		14	189	54	6.2	47	31	
S1 22+00E 4+00N		23	179	82	1.2	50	13	

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Geochemical Lab Report

REPORT: 125-2814 ROCK GEOCHEMISTRY

PROJECT: LOGAN

SAMPLE NUMBER	ELEMENT UNITS	Ga PPM	Cu PPM	Pb PPM	Zn PPM	Ag PPM	Au PPB	As PPM	Sn PPM	W PPM	
R2 82351	EAST ZONE		130	810	2400	7.5	<5	90	78	TRENCH 1	0- 1.7m
R2 82352			43	69	328	4.6	<5	100	6		1.7- 2.5m
R2 82353			108	545	2300	25.0	<5	>1000	27		2.5- 4.6m
R2 82354		<10	139					>1000	145		4.6- 5.7m
R2 82355		<10	74	825	1100	22.0	<5	>1000	370		5.7- 8.0m
R2 82356			66	410	550	5.4	<5	63	76		8.0- 9.2m
R2 82357			32	85	1220	3.8	<5	38	87		9.2-10.6m
R2 82358			128	347	6340	18.0	<5	700	67		10.6-11.4m
R2 82359			73	164	790	10.0	<5	78	140		11.4-12.2m
R2 82360			64	690	540	33.0	<5	80	220		12.2-13.6m
R2 82361			24	277	150	1.4	<5	20	<5	TRENCH 2	0- 2.3m
R2 82362			77	450	5700	3.8	<5	37	<5		2.3- 3.0m
R2 82363			66	505	715	4.9	<5	42	<5		3.0- 3.5m
R2 82364			66	374	1445	3.5	<5	42	56		3.5- 4.5m
R2 82365			49	348	375	3.8	<5	110	24		4.5- 5.0m
R2 82366			99	266	745	4.7	<5	60	64		5.0- 7.0m
R2 82367			142	465	545	46.0	<5	>1000	350		7.0- 8.5m
R2 82368			44	3670	194	>50.0	5	400	920		8.5- 9.0m
R2 82369			77	1365	430	>50.0	5	>1000	1200		9.0-10.0m
R2 82370			205	620	6740	18.0	10	>1000	220	21+25E,1+00N	GRAB
R2 82371			1720				35	>1000	530	20+55E,1+00N	GRAB
R2 82372			520	2990	1195	22.0	<5	>1000	165	21+55E,1+05N	GRAB
R2 82373		<10	220				25	>1000	40	21+40E,1+36N	GRAB
R2 82374			66	78	1025		<5	83	95	22+63E,1+30N	GRAB
R2 82375		<10	124				15	>1000	25	22+15E,1+30N	GRAB
R2 82376		<10	4	8	39	0.3	<5	400	<5	21+00E,0+90N	GRAB
R2 82377			49	26	2700	2.3	5	600	<5	22+85E,1+21N	GRAB
R2 82378			215	370	5560	31.0	<5	115	165	TRENCH 2	9.0m
R2 82379			114	2680	435	>50.0	10	>1000	<5	21+05E,0+75N	GRAB
R2 82380	LOGAN SOUTH		20	1385	140	30.0	<5	60	1040	12+00E,16+65S	GRAB
R2 82381	EAST ZONE		49	790	179	11.0	<5		14	22+04E,1+13N	GRAB
R2 82382			31	>10000	770	37.0	10	>1000	<5	21+45E,1+22N	GRAB
R2 82383	MAIN SHOWING AREA								<5	2	13+95E, 2+72S GRAB
R2 82384	(EAST EXTENSION)								<5	2	13+95E, 2+72S GRAB
R2 82385		36							<5	2	13+98E, 2+74S GRAB
R2 82386						0.2	<5		<5	12+47E,3+06S	GRAB
R2 82387						8.0	<5			12+06E,3+55S	GRAB
R2 82388	LOGAN SOUTH								2600	10+00E,14+50S	GRAB
R2 82389			4300	1415	>20000	>50.0	<5	>1000	310	19+50E, 8+50S	GRAB

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Certificate of Analysis

REPORT: 425-2814 ROCK ASSAYS

PROJECT: LOGAN PAGE 1

SAMPLE NUMBER	ELEMENT UNITS	Au OPT	Ag OPT	Pb PCT	Zn PCT			
R2 82354		0.002	0.52	0.16	0.55	EAST ZONE	TRENCH 1	4.6-5.7m
R2 82371			8.90	0.03	0.05		20+55E,1+00N	GRAB
R2 82373			8.02	0.45	0.16		21+40E,1+36N	GRAB
R2 82374			0.06				22+63E,1+30N	GRAB
R2 82375			0.63	0.01	0.38		22+13E,1+30N	GRAB

Registered Assayer, Province of British Columbi

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Certificate of Analysis

REPORT: 625-2814 | ASSAYS OF HIGH ROCK ANALYSES | PROJECT: LOGAN | PAGE 1

SAMPLE NUMBER	ELEMENT UNITS	Ag OPT	Pb PCT	Zn PCT			
R2 82368		4.04			EAST ZONE	TRENCH 2	8.5- 9.0m
R2 82369		7.48					9.0-10.0m
R2 82379		3.38				21+05E,0+75N	GRAB
R2 82382			1.49			21+45E,1+22N	GRAB
R2 82389		11.49		2.40	LOGAN SOUTH	19+50E,8+50S	GRAB

Registered Assayer, Province of British Columbia

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Geochemical Lab Report

REPORT: 225-2814

PROJECT: LOGAN

SAMPLE NUMBER	ELEMENT UNITS	Cu PPM	Pb PPM	Zn PPM	Ag PPM	As PPM	Au PPB	Sn PPM	Ga PPM
R2 82376		4	8	39	0.3	400	<5	<5	<10

Appendix “B”
GEOPHYSICAL REPORT

PHOENIX GEOPHYSICS LIMITED

REPORT ON

THE CONTINUATION OF THE INDUCED POLARIZATION SURVEY AND RESISTIVITY SURVEY

ON THE

LOGAN PROPERTY

WATSON LAKE MINING DISTRICT, YUKON

FOR

CORDILLERAN ENGINEERING LIMITED

LATITUDE: 60° 30' N LONGITUDE: 130° 29' W

NTS: 105B/7,8,9

CLAIMS: LOGAN 1-36

OWNERS:

REGIONAL RESOURCES LTD., GETTY CANADIAN METALS LTD.

OPERATOR: CORDILLERAN ENGINEERING LIMITED

BY

PAUL A. CARTWRIGHT, B.Sc.

Geophysicist

MICHAEL J. CORMIER, B.Sc.

Geophysicist

DATED: DECEMBER 19, 1985

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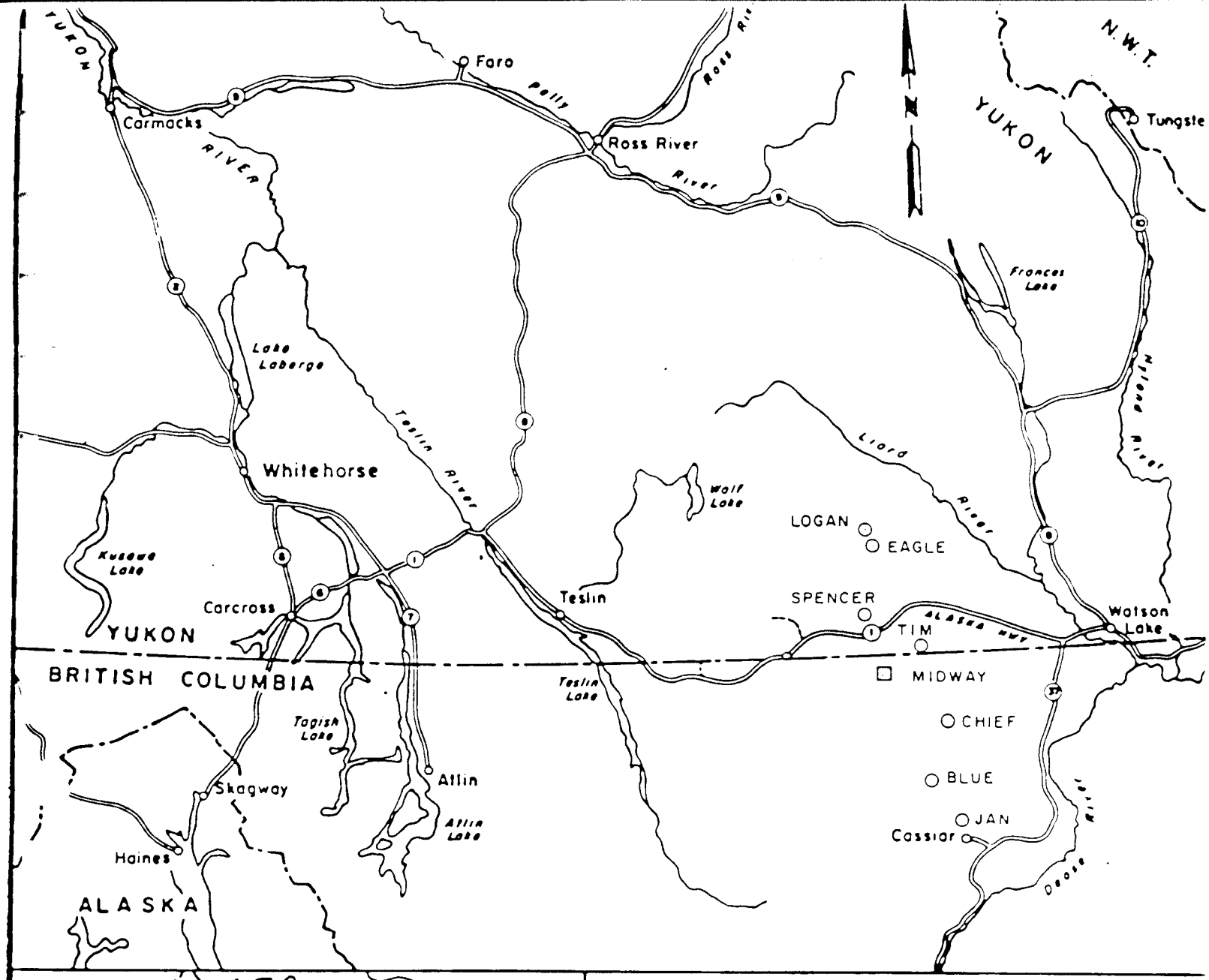
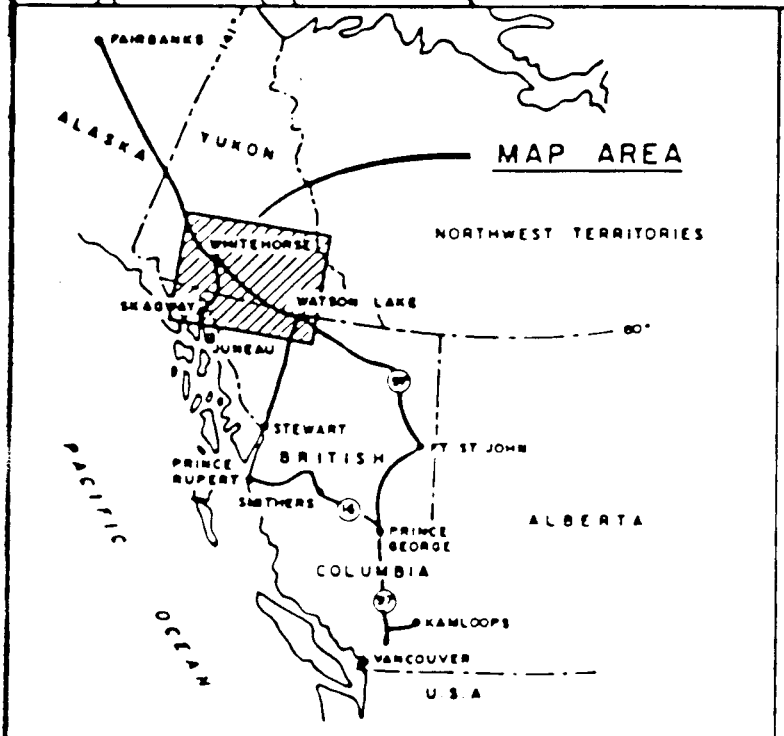




Scale - 1" = 400 Miles

REGIONAL RESOURCES LTD.

PROPERTY LOCATION MAP

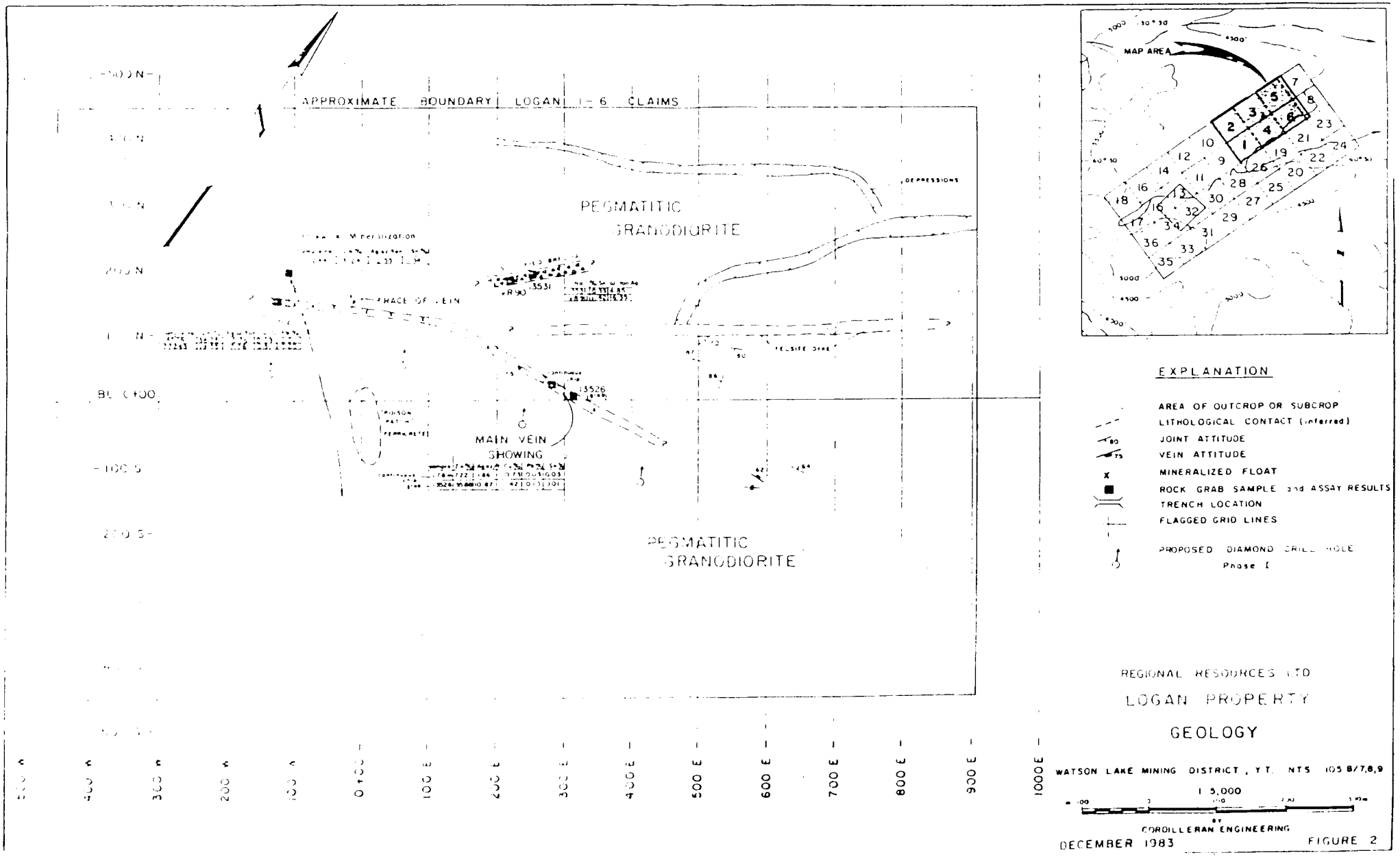
SCALE 1" = 40 MILES

BY

CORDILLERAN ENGINEERING
1418 – 355 BURRARD STREET
VANCOUVER, B.C. V6C 2G8

NOVEMBER 1983

FIGURE 1


APPROXIMATE BOUNDARY LOGAN 1-6 CLAIMS
PEGMATITIC GRANODIORITE
TRACE OF VEIN
MAIN VEIN SHOWING
PEGMATITIC GRANODIORITE
3531
3526
MAP AREA
EXPLANATION
AREA OF OUTCROP OR SUBCROP
LITHOLOGICAL CONTACT (inferred)
JOINT ATTITUDE
VEIN ATTITUDE
MINERALIZED FLOAT
ROCK GRAB SAMPLE and ASSAY RESULTS
TRENCH LOCATION
FLAGGED GRID LINES
PROPOSED DIAMOND DRILL HOLE
Phase I
REGIONAL RESOURCES LTD
LOGAN PROPERTY
GEOLOGY
WATSON LAKE MINING DISTRICT, Y.T. NTS 105 B/7,8,9
1:5,000
CORDILLERAN ENGINEERING
DECEMBER 1983
FIGURE 2

(1) INTRODUCTION

An Induced Polarization and Resistivity survey has been completed on the Logan Property, Watson Lake Mining District, Yukon on behalf of Cordilleran Engineering Limited.

The property is located approximately 106 kilometers northwest of Watson Lake, Yukon. Access is by helicopter from the Alaska highway.

The following geological description has been provided by Cordilleran Engineering Ltd.

> "A significant vein system (Main Vein) containing Zn, Ag, Cu, Pb and Sn mineralization, hosted by highly altered granodiorite, is located on the northern part of the property (Figure 2). The granodiorite is strongly sericitized; pegmatite and graphic granite are common. Float boulders of **massive sphalerite** up to 0.6 m (2 ft.) in diameter occur intermittently along a strike length of 500 metres and, at Main Vein Showing, trenching has exposed mineralization in place."
>
> "Float boulders containing quartz stockwork with significant Zn-Ag-Sn mineralization also occur, near the western limit of the Main Vein trend (Line 100W). The abundant quartz veinlets contain disseminated to massive sphalerite, pyrite, arsenopyrite, minor chalcopyrite and a tin mineral thought to be cassiterite."

Previous work included prospecting, geochemistry (soil, float and grab samples - 1977-1984), trenching, magnetics and Induced Polarization and Resistivity surveys.

The objective of the IP survey was to detect metallic mineralization thought to be associated with zinc, lead, silver, copper and tin minerals.

A Phoenix Model IPV-1 Induced Polarization (IP) and Resistivity receiver unit was used in conjunction with a Phoenix Model IPT-1 IP and Resistivity transmitter powered by a 2 kw motor-generator. The IP effect is recorded directly as the

Percent Frequency Effect (PFE) at the transmitted frequencies of 4.0 hz. and 0.25 hz. Apparent resistivity values are normalized in units of ohm-meters. Metal factor values are calculated according to the following formula: (P.F.E. x 1000)/App. Res. Dipole-dipole array was utilized to make all of the IP measurements. The lines were surveyed first with an inter-electrode spacing of 100 meters, with detail work carried out at 25 and 50 meter spacings. Four dipole separations were measured in all cases.

Field work was carried out between August 19, 1985 and August 30, 1985, under the supervision of Mr. John Marsh, geophysical crew leader. His certificate of qualifications is included with this report.

(2) DESCRIPTION OF CLAIMS

The Logan Property consists of the following claims:

Claim Name	Record No.	Record Date
Logan 1- 6	YA45047 - YA45052	Dec. 31, 1985
Logan 7-36	YA46254 - YA46283	Dec. 31, 1985

(3) PRESENTATION OF DATA

The IP and Resistivity results are shown on the following data plots in the pseudo-section format:

Line	Electrode Interval	Dwg. No.
1000 W	100 meters	I.P.-5869- 1
800 W	100 meters	I.P.-5869- 2
600 W	100 meters	I.P.-5869- 3
600 W	25 meters	I.P.-5869- 4
1200 E	100 meters	I.P.-5869- 5

1400 E	100 meters	I.P.-5869- 6
1600 E	100 meters	I.P.-5869- 7
1600 E	25 meters	I.P.-5869- 8
1800 E	100 meters	I.P.-5869- 9
1800 E	50 meters	I.P.-5869-10
1800 E	25 meters	I.P.-5869-11
1900 E	50 meters	I.P.-5869-12
2000 E	100 meters	I.P.-5869-13
2000 E	50 meters	I.P.-5869-14
2000 E	25 meters	I.P.-5869-15
2100 E	25 meters	I.P.-5869-16
2200 E	100 meters	I.P.-5869-17
2200 E	25 meters	I.P.-5869-18
2300 E	25 meters	I.P.-5869-19
2400 E	100 meters	I.P.-5869-20
2600 E	100 meters	I.P.-5869-21
2800 E	100 meters	I.P.-5869-22

Also enclosed with this report is plan map Dwg. No.-I.P.P.-B-4143, a plan map of the Logan geophysical grid at a scale of 1:5000. 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. These bars represent surface projections of the anomalous zones as interpreted from the location of transmitter and receiver electrodes when the anomalous values were measured.

(4) DISCUSSION OF RESULTS

The present (1985) Induced Polarization and Resistivity survey on the Logan Property was carried out on extensions of the 1984 grid. Two of the anomalous IP zones detected by the previous survey were found to have considerably greater strike lengths. A separate, previously unmapped zone is also interpreted to be present.

The IP and Resistivity zones are discussed separately below.

ZONE A

This feature is now indicated to extend from one edge of the grid to the other, a distance of nearly 4,000 meters. As is noted in the 1984 report of the IP survey on the Logan Property, IP Zone A is shown by the 100 meter data set to be a generally broad zone of moderately to strongly anomalous IP effects. Detail IP coverage using shorter dipole lengths suggests that the cause of IP Zone A is a series of narrow, and parallel sub-zones, with two such trends being interpreted in the 1985 data collected over the northeastern end of the Logan grid (Zone A1, Zone A2).

Zone A1 is outlined best by the 25 meter IP and Resistivity data set collected on Line 1600E through to Line 2300E. The source of the zone appears to be quite resistive and only moderately polarizable at best. Depths to the top of the source are generally indicated to be less than 25 meters.

Zone A2 lies approximately 50 meters south of Zone A1, and is composed of higher magnitude IP effects. Definitely anomalous results are noted in the data recorded over Zone A2 on Line 2100E and Line 2200E. In both cases the source is indicated to be approximately 25 meters wide, approximately 25 meters in depth extent, and to have very little surface cover. Moderate to high intensity IP effects are noted coincident with somewhat elevated apparent resistivity values.

ZONE B

IP Zone B was originally outlined on the southern corner of the survey grid. Data collected during the present program indicates that the source of the zone continues at least 600 meters further towards the southwest, at which point it is undefined beyond Line 1000W. In addition, the southeastern margin of the zone is still open along its entire length.

Moderate magnitude IP effects appear to constitute the geophysical response. Apparent resistivities noted within the zone are only slightly lower than

background.

ZONE B1

The interpretation of this feature remains unchanged as no new data has been recorded over the zone.

ZONE C

Zone C is outlined in the 100 meter data collected on Line 2400E, Line 2600E, and Line 2800E. While the source of the geophysical response extends northeast beyond the existing grid, it does not appear to extend further southwest than the vicinity of Line 2400E, where the depth to the top is indicated to be in the order of 100 meters subsurface. Depths to the source are interpreted to be less than 100 meters under Line 2600E and Line 2800E. In every case weakly to moderately anomalous IP effects are noted, together with marginally higher than background resistivity values.

(5) SUMMARY AND RECOMMENDATIONS

The 1985 Induced Polarization and Resistivity survey on the Logan Property has outlined extensions of two existing trends, Zone A, and Zone B, as well as detecting a new feature, Zone C. Detailed coverage using 25 meter dipole lengths has revealed that the northeastern end of Zone A is actually composed of two separate, narrow and parallel trends, Zone A1 and Zone A2.

Zone A is still open at both ends, with higher magnitude anomalies being noted in the data from the northeast end. Additional wide spaced IP surveying is recommended to define the full extent of Zone A.

Zone A1 should be tested by drilling on a low priority basis. A drill hole located so as to pass approximately 40 meters under Line 1800E, Station 210N is recommended.

Zone A2 is the most distinct trend outlined by the present survey and should be drilled. A drill hole spotted so as to pass approximately 25 meters beneath Line 2100E, Station 100N is recommended.

Zone B, Zone B1, and Zone C require additional reconnaissance IP coverage to map the complete confines of these zones, followed by more detailed IP coverage over the most promising targets detected by the initial work.

PHOENIX GEOPHYSICS LIMITED

Paul A. Cartwright, B.Sc.
Geophysicist

Michael J. Cormier, B.Sc.
Geophysicist

Dated: December 19, 1985

(6) **ASSESSMENT DETAILS**

PROPERTY: Logan
SPONSOR: Cordilleran Engineering Ltd.
LOCATION: Southern Yukon
TYPE OF SURVEY: Induced Polarization and Resistivity
OPERATING MAN DAYS: 30
EQUIVALENT 8 HR MANDAYS: 45
CONSULTING MAN DAYS: 5
DRAFTING MAN DAYS: 6
TOTAL MAN DAYS: 56
DATE STARTED: August 19, 1985
DATE FINISHED: August 30, 1985
NUMBER OF STATIONS: 325
NUMBER OF READINGS: 1568

CONSULTANTS:

Paul A. Cartwright, 4238 West 11th Avenue, Vancouver, B.C.
Michael J. Cormier, 2242 Stephens St., Vancouver, B.C.

FIELD TECHNICIANS:

J. Marsh, 7100 Warden Ave., Markham, Ontario
M. Makulowich, 669 Valdes Drive, Kamloops, B.C.
K. Corman, 5711 No. 2 Road, Richmond, B.C.

DRAFTSMEN:

R. Norris, 7100 Warden Ave., Markham, Ontario
R. Wakaluk, 7886 Vivian Drive, Vancouver, B.C.

PHOENIX GEOPHYSICS LIMITED

Paul A. Cartwright

Paul A. Cartwright, B.Sc.
Geophysicist

DATED: December 19, 1985

(7) STATEMENT OF COST

Cordilleran Engineering Ltd.

IP and Resistivity Survey - Logan Property, Yukon

CREW: J. Marsh, K. Corman, M. Makulowich

PERIOD: August 19, 1985 to August 30, 1985

10 operating days @ $900.00	$ 9,000.00
2 standby days @ $560.00	1,120.00
EXPENSES: Prorated mobilization-demobilization	2,100.00
Less Credit re IPV-2 rental	
9 days @ 76.00	-675.00
TOTAL	$11,545.00

PHOENIX GEOPHYSICS LIMITED

Paul A. Cartwright

Paul A. Cartwright, B.Sc.
Geophysicist

DATED: December 19, 1985

CERTIFICATE

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

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

2. I am a graduate of the University of British Columbia, with a B.Sc. Degree (1970).

3. I am a member of the Society of Exploration Geophysicists, the European Association of Exploration Geophysicists and the Canadian Society of Exploration Geophysicists.

4. I have been practising my profession for 15 years.

5. I am a Professional Geophysicist licensed in the Province of Alberta.

6. 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 Limited, Regional Resources Ltd. or Getty Canadian Metals Ltd., or any affiliates.

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

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

DATED AT VANCOUVER, B.C. this 19th day of December, 1985.

Paul A. Cartwright

Paul A. Cartwright, B.Sc.

CERTIFICATE

I, Michael J. Cormier, of the City of Vancouver, Province of British Columbia, do hereby certify that:

1. I am a geophysicist residing at 2242 Stephens St. Vancouver, British Columbia.

2. I am a graduate of McGill University, Montreal, Quebec with a B.Sc. Degree (1981).

3. I have been practising my profession for 4 years.

4. 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 Limited, Regional Resources Ltd., or Getty Canadian Metals Limited, or any affiliates.

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

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

DATED at Vancouver, B.C. this 19th day of December, 1985.

Michael J. Cormier

Michael J. Cormier, 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 7100 Warden Ave., Markham, 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 Limited of 214-744 West Hastings Street, Vancouver, B.C.

DATED at Vancouver, B.C. this 19th day of December, 1985.

John Marsh

John Marsh

PART B

PHOENIX GEOPHYSICS LIMITED

NOTES ON THE THEORY, METHOD OF FIELD OPERATION AND PRESENTATION OF DATA FOR THE INDUCED POLARIZATION METHOD

Induced Polarization as a geophysical measurement refers to the blocking action or polarization of metallic or electronic conductors in a medium of ionic solution conduction.

This electro-chemical phenomenon occurs wherever electrical current is passed through an area which contains metallic minerals such as base metal sulphides. Normally, when current is passed through the ground, as in resistivity measurements, all of the conduction takes place through ions present in the water content of the rock, or soil, i.e., by ionic conduction. This is because almost all minerals have a much higher specific resistivity than ground water. The group of minerals commonly described as "metallic", however, have specific resistivities much lower than ground waters. The induced polarization effect takes place at those interfaces where the mode of conduction changes from ionic in the solutions filling the interstices of the rock to electronic in the metallic minerals present in the rock.

The blocking action or induced polarization mentioned above, which depends upon the chemical energies necessary to allow the ions to give up or receive electrons from the metallic

surface, increases with the time that a d.c. current is allowed to flow through the rock; i.e., as ions pile up against the metallic interface the resistance to current flow increases. Eventually, there is enough polarization in the form of excess ions at the interfaces, to appreciably reduce the amount of current flow through the metallic particle. This polarization takes place at each of the infinite number of solution-metal interfaces in a mineralized rock.

When the d.c. voltage used to create this d.c. current flow is cut off, the Coulomb forces between the charged ions forming the polarization cause them to return to their normal position. This movement of charge creates a small current flow which can be measured on the surface of the ground as a decaying potential difference.

From an alternate viewpoint it can be seen that if the direction of the current through the system is reversed repeatedly before the polarization occurs, the effective resistivity of the system as a whole will change as the frequency of the switching is changed. This is a consequence of the fact that the amount of current flowing through each metallic interface depends upon the length of time that current has been passing through it in one direction.

The values of the per cent frequency effect or F.E. are a measurement of the polarization in the rock mass. However, since the measurement of the degree of polarization is related to the apparent resistivity of the rock mass, it is found that the metal factor values or M.F. can be useful values

determining the amount of polarization present in the rock mass. The MF values are obtained by normalizing the F.E. values for varying resistivities.

The Induced Polarization measurement is perhaps the most powerful geophysical method for the direct detection of metallic sulphide mineralization, even when this mineralization is of very low concentration. The lower limit of volume per cent sulphide necessary to produce a recognizable IP anomaly will vary with the geometry and geologic environment of the source, and the method of executing the survey. However, sulphide mineralization of less than one per cent by volume has been detected by the IP method under proper geological conditions.

The greatest application of the IP method has been in the search for disseminated metallic sulphides of less than 20% by volume. However, it has also been used successfully in the search for massive sulphides in situations where, due to source geometry, depth of source, or low resistivity of surface layer, the EM method cannot be successfully applied. The ability to differentiate ionic conductors, such as water-filled shear zones, makes the IP method a useful tool in checking EM anomalies which are suspected of being due to these causes.

In normal field applications the IP method does not differentiate between the economically important metallic minerals such as chalcopyrite, chalcocite, molybdenite, galena, etc., and the other metallic minerals such as pyrite. The Induced Polarization effect is due to the total of all electronic conducting minerals in the rock mass. Other electronic conducting

materials which can produce an IP response are magnetite, pyrolusite, graphite, and some forms of hematite.

In the field procedure, measurements on the surface are made in a way that allows the effects of lateral changes in the properties of the ground to be separated from the effects of vertical changes in the properties. Current is applied to the ground at two points in distance (X) apart. The potentials are measured at two points (X) feet apart, in line with the current electrodes is an integer number (n) times the basic distance (X).

The measurements are made along a surveyed line, with a constant distance (nX) between the nearest current and potential electrodes. In most surveys, several traverses are made with various values of (n); i.e., (n) = 1, 2, 3, 4, etc. The kind of survey required (detailed or reconnaissance) decides the number of values of (n) used.

In plotting the results, the values of apparent resistivity, apparent per cent frequency effect, and the apparent metal factor measured for each set of electrode positions are plotted at the intersection of grid lines, one from the center point of the current electrodes and the other from the center point of the potential electrodes. (See Figure A) The resistivity values are plotted at the top of the data profile, above the metal factor values. On a third line, below the metal factor values, are plotted the values of the percent frequency effect. The lateral displacement of a given value is determined by the location along the survey line of the center

point between the current and potential electrodes. The distance of the value from the line is determined by the distance (nX) between the current and potential electrodes when the measurement was made.

The separation between sender and receiver electrodes is only one factor which determines the depth to which the ground is being sampled in any particular measurement. The plots then, when contoured, are not section maps of the electrical properties of the ground under the survey line. The interpretation of the results from any given survey must be carried out using the combined experience gained from field results, model study results and the theoretical investigations. The position of the electrodes when anomalous values are measured is important in the interpretation.

In the field procedure, the interval over which the potential differences are measured is the same as the interval over which the electrodes are moved after a series of potential readings has been made. One of the advantages of the Induced Polarization method is that the same equipment can be used for both detailed and reconnaissance surveys merely by changing the distance (X) over which the electrodes are moved each time. In the past, intervals have been used ranging from 25 feet to 2000 feet for (X). In each case, the decision as to the distance (X) and the values of (n) to be used is largely determined by the expected size of the mineral deposit being sought, the size of the expected anomaly and the speed with which it is desired to progress.

The diagram in Figure A demonstrates the method used in plotting the results. Each value of the apparent resistivity, apparent metal factor, and apparent per cent frequency effect is plotted and identified by the position of the four electrodes when the measurement was made. It can be seen that the values measured for the larger values of (n) are plotted farther from the line indicating that the thickness of the layer of the earth that is being tested is greater than for the smaller values of (n); i.e., the depth of the measurement is increased.

The IP measurement is basically obtained by measuring the difference in potential or voltage (Δ V) obtained at two operating frequencies. The voltage is the product of the current through the ground and the apparent resistivity of the ground. Therefore, in field situations where the current is very low due to poor electrode contact, or the apparent resistivity is very low, or a combination of the two effects; the value of (Δ V) the change is potential will be too small to be measurable. The symbol "TL" on the data plots indicates this situation.

In some situations spurious noise, either man-made or natural, will render it impossible to obtain a reading. The symbol "N" on the data plots indicates a station at which it is too noisy to record a reading. If a reading can be obtained, but for reasons of noise there is some doubt as to its accuracy, the reading is bracketed in the data plot ( ).

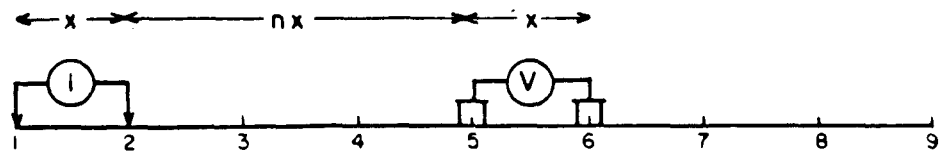
In certain situations negative values of Apparent Frequency Effect are recorded. This may be due to the geologic

environment or spurious electrical effects. The actual negative frequency effect value recorded is indicated on the data plot; however, the symbol "NEG" is indicated for the corresponding value of Apparent Metal Factor. In contouring negative values the contour lines are indicated to the nearest positive value in the immediate vicinity of the negative value.

The symbol "NR" indicates that for some reason the operator did not attempt to record a reading, although normal survey procedures would suggest that one was required. This may be due to inaccessible topography or other similar reasons. Any symbol other than those discussed above is unique to a particular situation and is described within the body of the report.

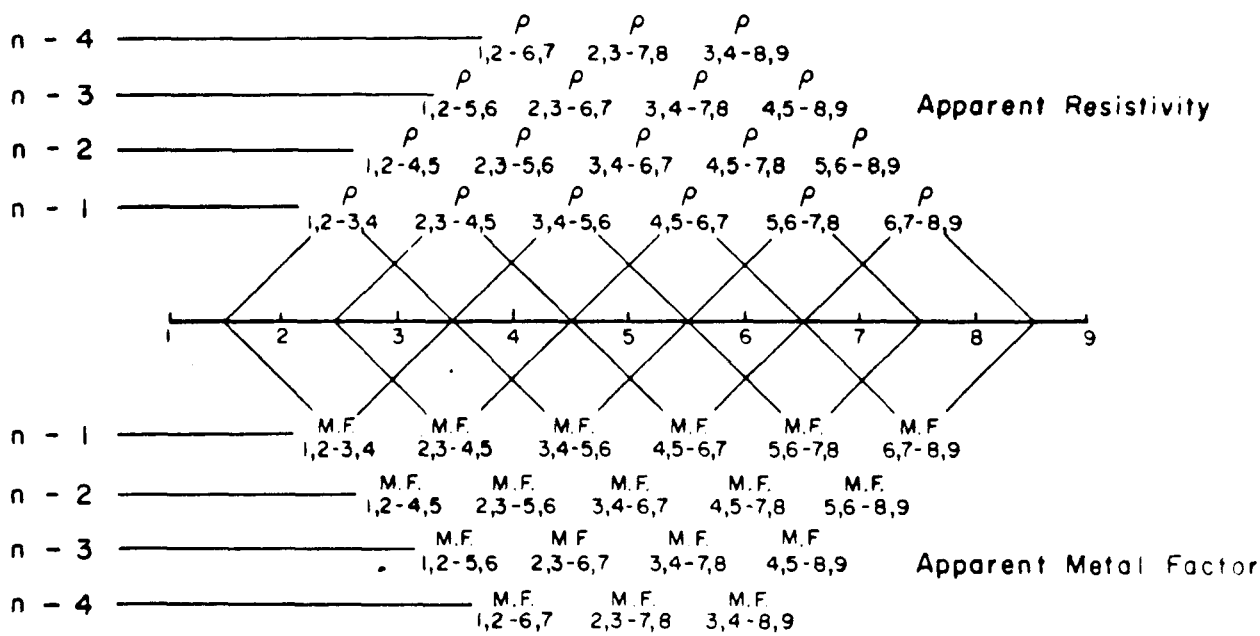
PHOENIX GEOPHYSICS LIMITED

METHOD USED IN PLOTTING DIPOLE-DIPOLE INDUCED POLARIZATION AND RESISTIVITY RESULTS



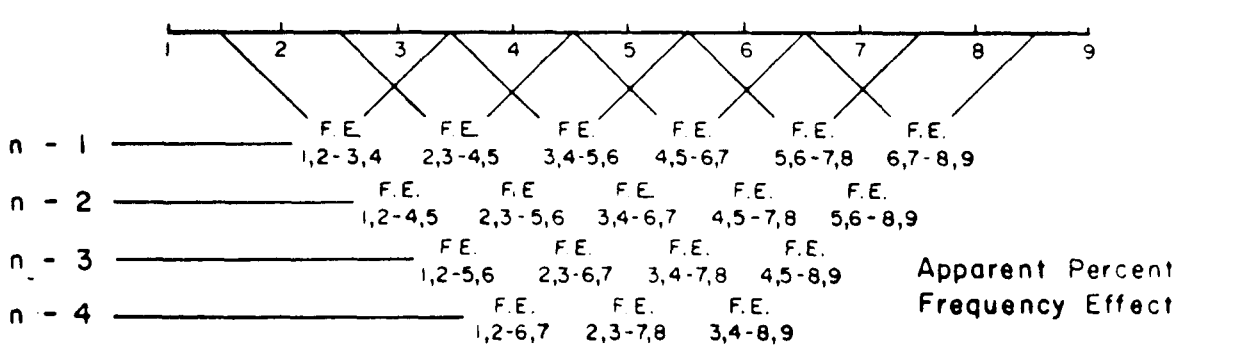
Stations on line

x = Electrode spread length
n = Electrode separation



Apparent Resistivity

Apparent Metal Factor



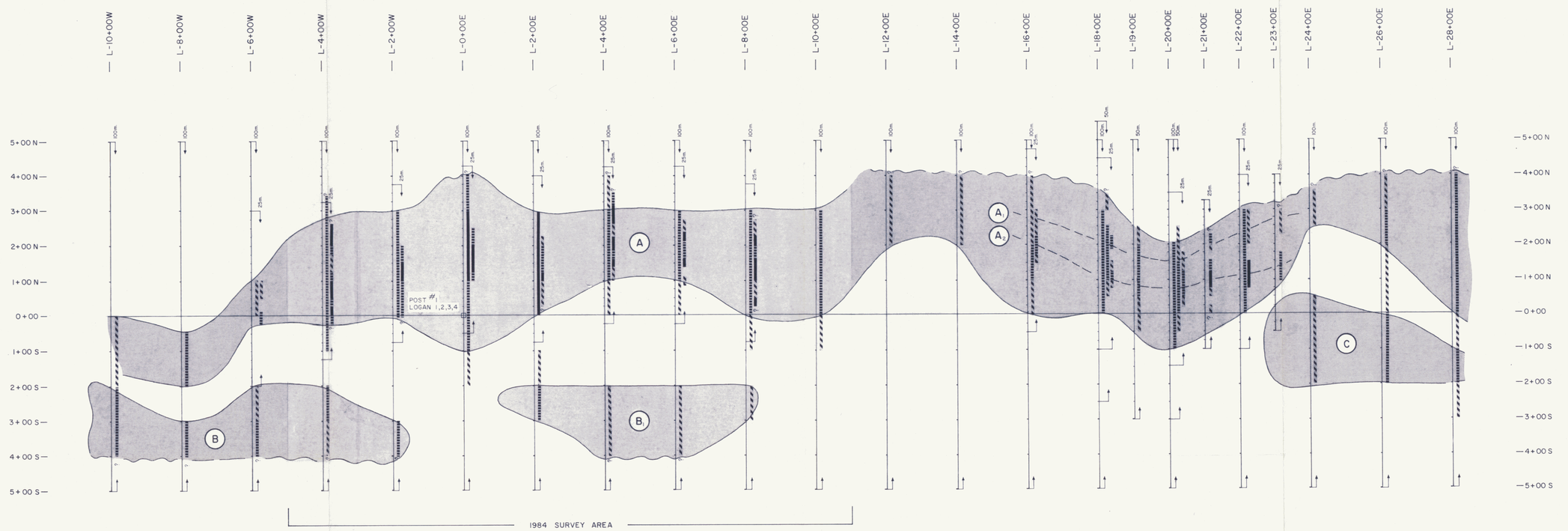
Apparent Percent Frequency Effect

Fig. A

PHOENIX GEOPHYSICS LIMITED

INDUCED POLARIZATION AND RESISTIVITY SURVEY

PLAN MAP



NOTE: TO ACCOMPANY GEOPHYSICAL REPORT FOR CORDILLERAN ENGINEERING LTD. ON THE LOGAN PROPERTY, WATSON LAKE M.D., YUKON, by PAUL A. CARTWRIGHT B.Sc., GEOPHYSICIST and MICHAEL J. CORMIER B.Sc., GEOPHYSICIST

DATED – DEC. 19, 1985

SURFACE PROJECTION OF ANOMALOUS ZONE

DEFINITE ——

PROBABLE ||||||||||

POSSIBLE \\\\\\\\\\

NUMBER AT END OF ANOMALIES INDICATE SPREAD USED.

OUTLINE OF ANOMALOUS ZONE —

EXTENT OF IP SURVEY COVERAGE

25m.
50m.
100m.

CORDILLERAN ENGINEERING LTD.

LOGAN PROPERTY

WATSON LAKE M.D., YUKON

SCALE

100 0 100 200 300 400 METRES

1:5000

PICKETTED CUT LINE

CLAIM POST

DRAWN: R.G.W.

DATE: DEC. 17, 1985

APPROVED: MJC

DATE: Dec. 17/85

091783

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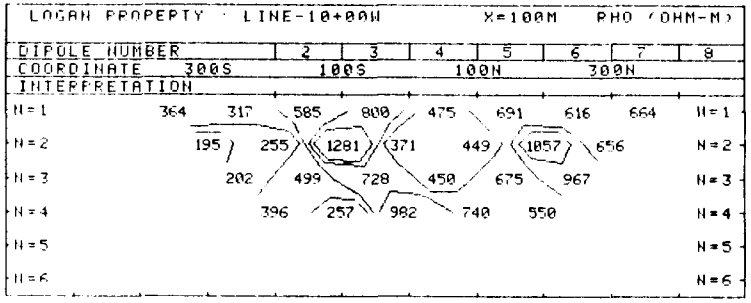

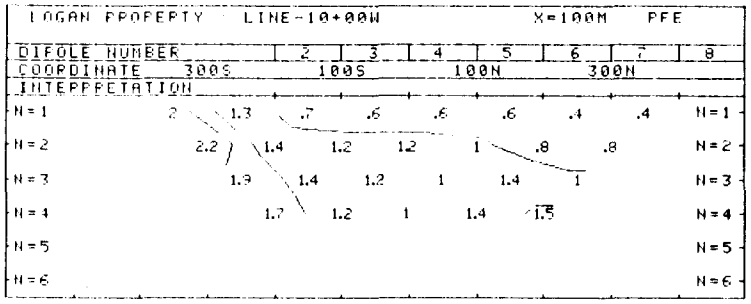

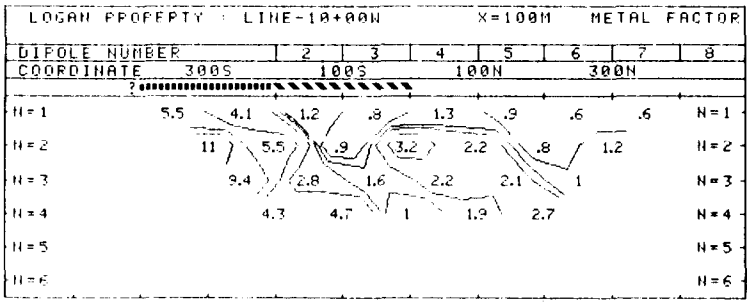

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CORDILLERAN ENGINEERING

LOGAN PROPERTY

WATSON LAKE M.D. - YUKON

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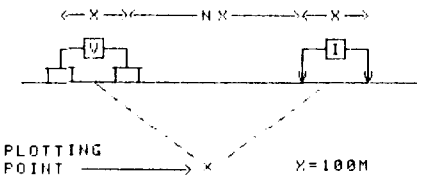


SURFACE PROJECTION OF ANOMALOUS ZONE

DEFINITE
PROBABLE
POSSIBLE

FREQUENCY (HERTZ)
0.25/4.0 HZ.

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

DATE SURVEYED AUG 1985

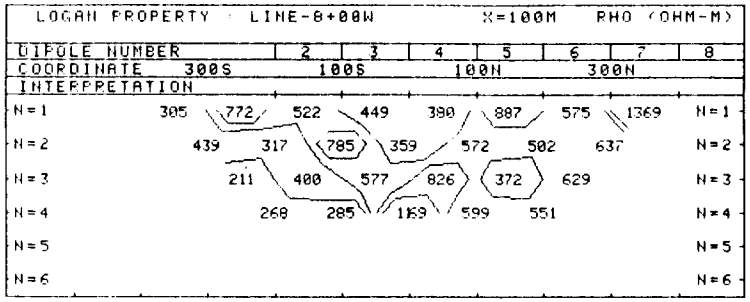
APPROVED

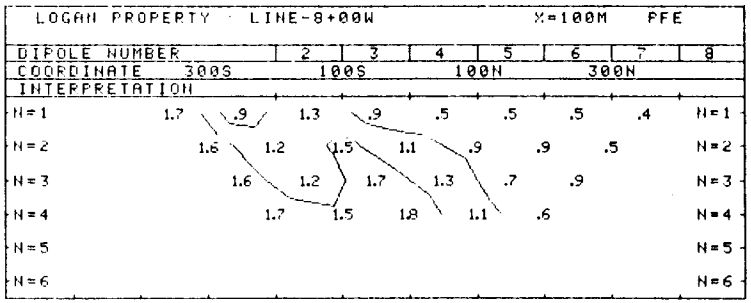
PAC

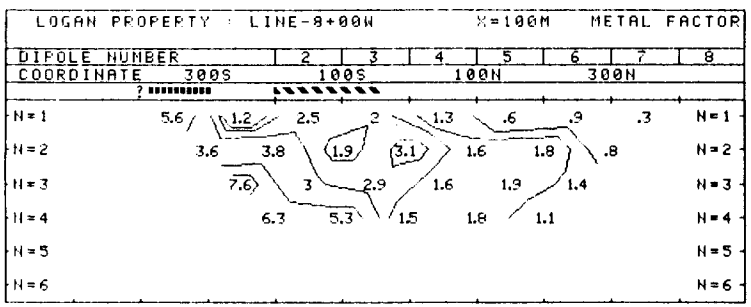
DATE Dec 17/85

PHOENIX GEOPHYSICS LTD.

INDUCED POLARIZATION AND RESISTIVITY SURVEY







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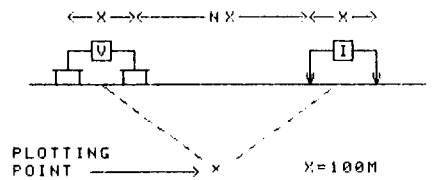
CORDILLERAN ENGINEERING

LOGAN PROPERTY

WATSON LAKE M.D. / YUKON

LINE NO -8+00W



SURFACE PROJECTION OF ANOMALOUS ZONE

DEFINITE
PROBABLE
POSSIBLE

FREQUENCY (HERTZ)
0.25;4.0 HZ.

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

DATE SURVEYED: AUG. 1985

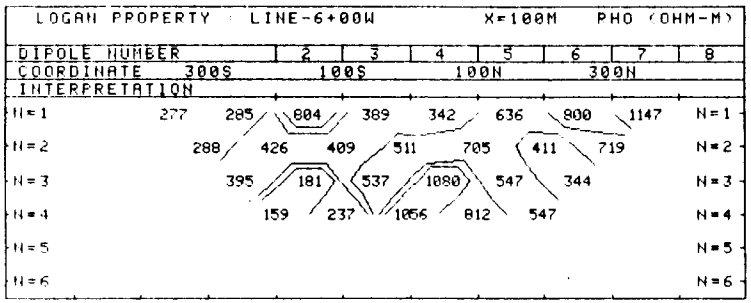
APPROVED

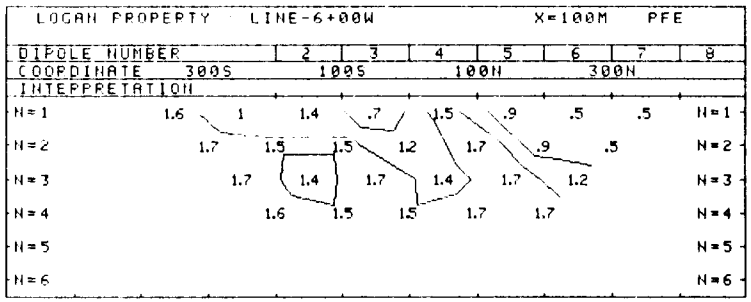
PAC

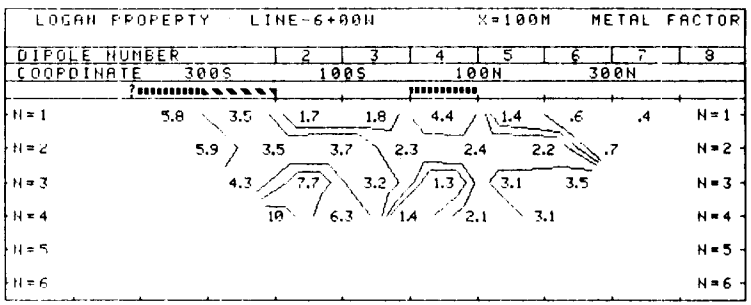
DATE Dec 17/85

PHOENIX GEOPHYSICS LTD.

INDUCED POLARIZATION AND RESISTIVITY SURVEY







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CORDILLERAN ENGINEERING

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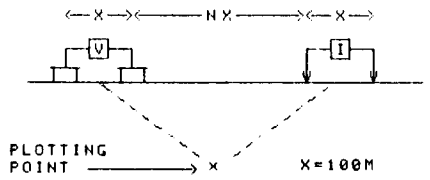
LINE NO. -6+00W



SURFACE PROJECTION OF ANOMALOUS ZONE

DEFINITE
PROBABLE
POSSIBLE

FREQUENCY (HERTZ)
0.25;4.0 HZ

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

DATE SURVEYED: AUG. 1985

APPROVED

PAC

DATE Dec 17/85

PHOENIX GEOPHYSICS LTD.

INDUCED POLARIZATION AND RESISTIVITY SURVEY

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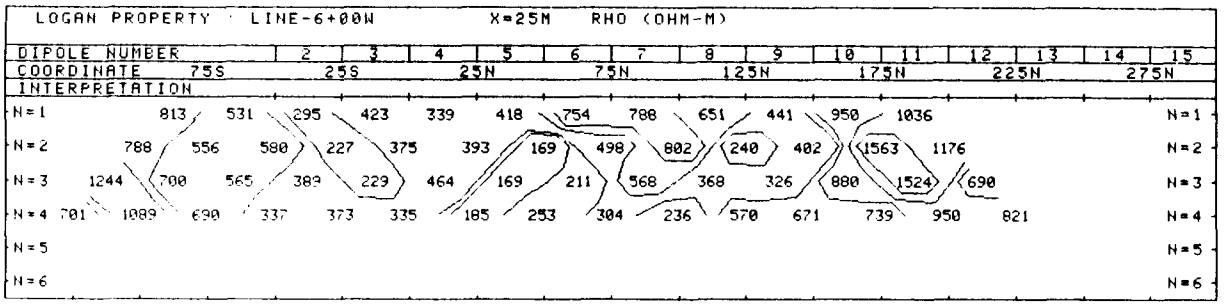

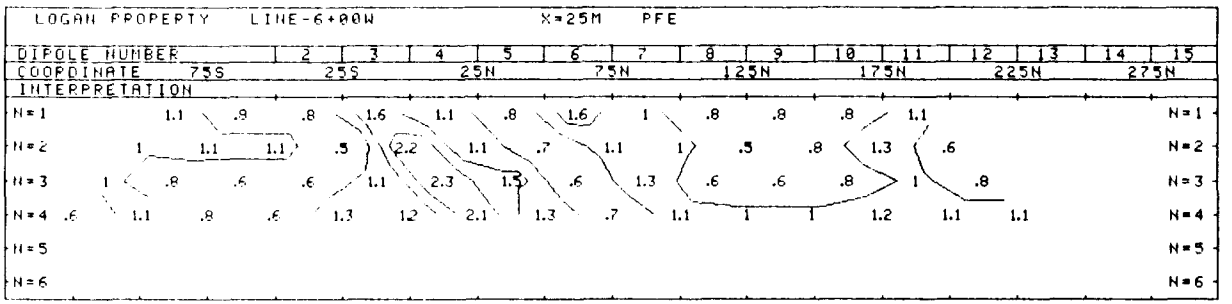

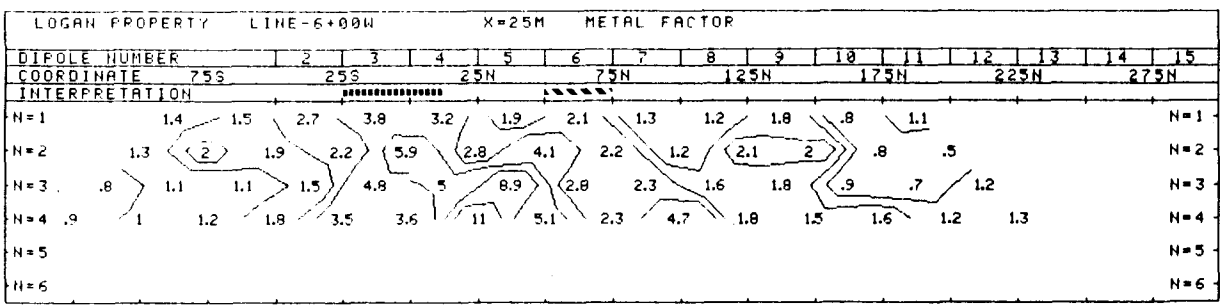

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LOGAN PROPERTY

WATSON LAKE M.D / YUKON

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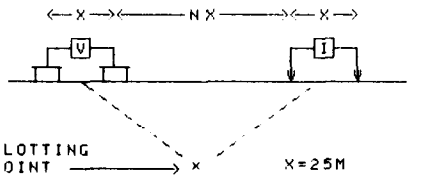

SURFACE PROJECTION OF ANOMALOUS ZONE

DEFINITE
PROBABLE
POSSIBLE

FREQUENCY (HERTZ)
0.25;4.0 HZ.

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

DATE SURVEYED: AUG. 1985

APPROVED

PAC

DATE DEC 17/85

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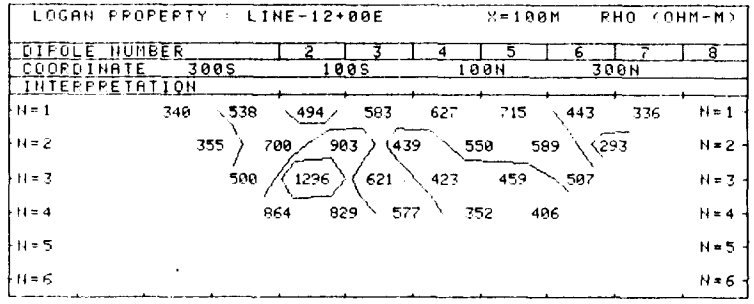
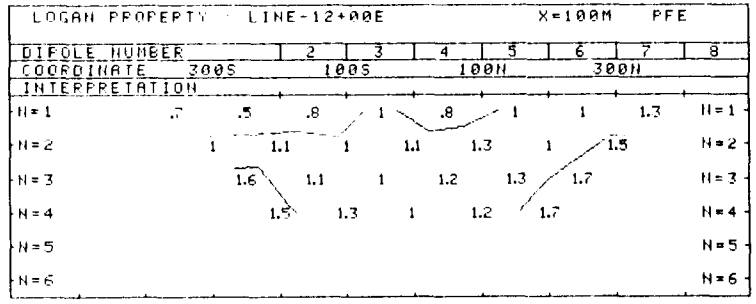
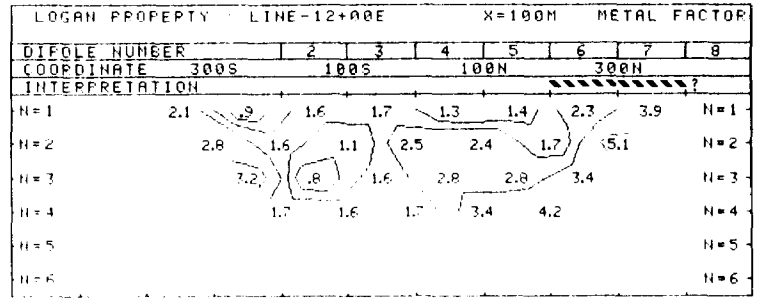
INDUCED POLARIZATION AND RESISTIVITY SURVEY







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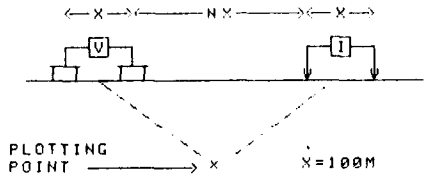
LOGAN PROPERTY

WATSON LAKE M.D. / YUKON

LINE NO -12+00E



SURFACE PROJECTION OF ANOMALOUS ZONE

DEFINITE
PROBABLE
POSSIBLE

FREQUENCY (HERTZ)
0.25/4.0 HZ.

NOTE- CONTOURS AT LOGARITHMIC INTERVALS. 1,-1.5 -2,-3,-5,-7 5,-10

DATE SURVEYED AUG 1985

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DATE DEC 17/85

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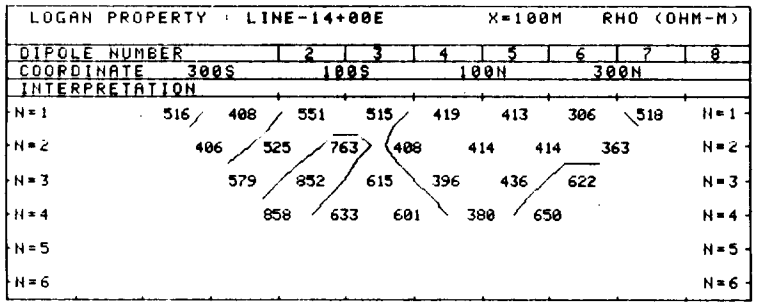
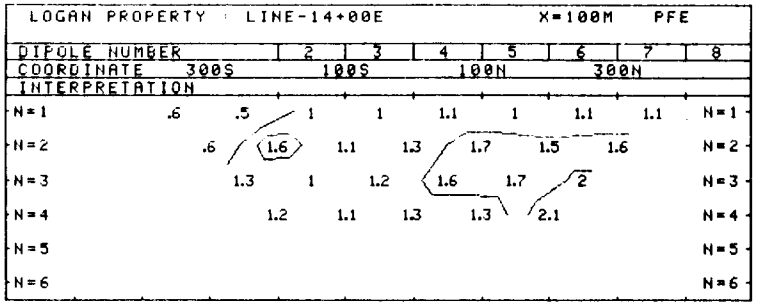
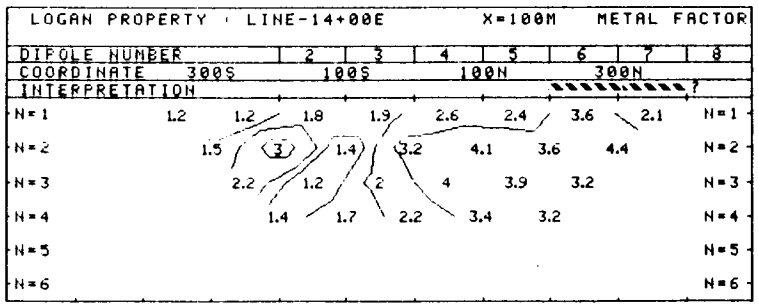
INDUCED POLARIZATION AND RESISTIVITY SURVEY







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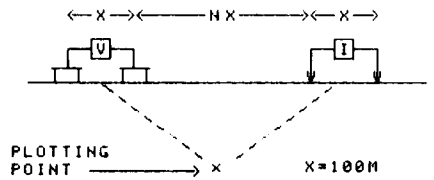
CORDILLERAN ENGINEERING

LOGAN PROPERTY

WATSON LAKE M.D. / YUKON

LINE NO. -14+00E



SURFACE PROJECTION OF ANOMALOUS ZONE

DEFINITE
PROBABLE
POSSIBLE

FREQUENCY (HERTZ)
0.25/4.0 HZ.

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

DATE SURVEYED: AUG. 1985

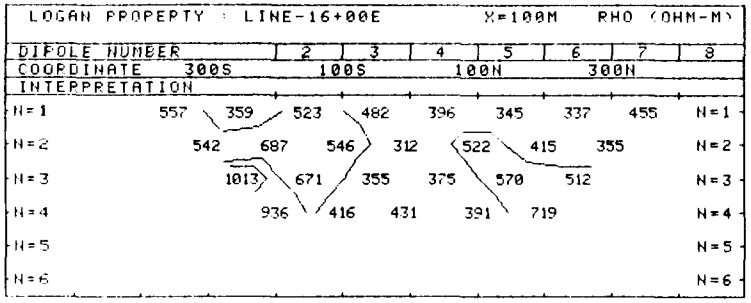
APPROVED

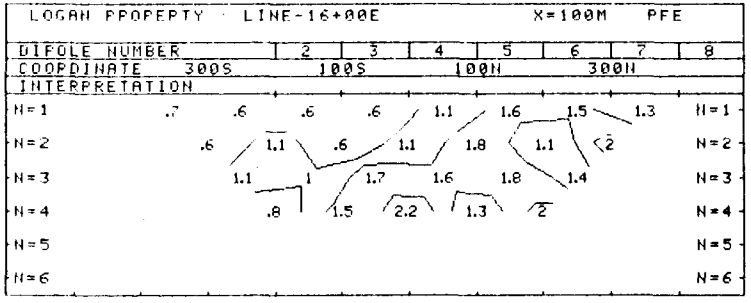
PAC

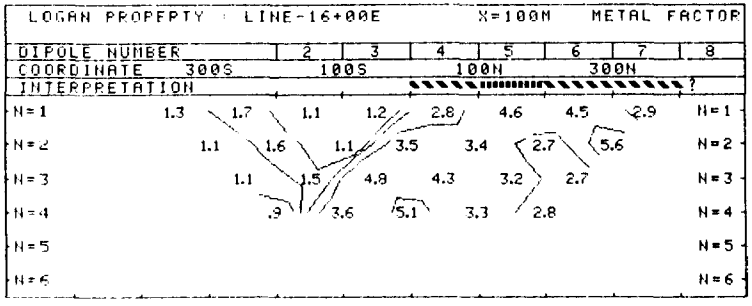
DATE Dec 17/85

PHOENIX GEOPHYSICS LTD.

INDUCED POLARIZATION AND RESISTIVITY SURVEY







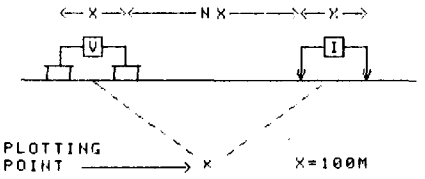
DWG. NO. -I.P.- **5869-7**

CORDILLERAN ENGINEERING

LOGAN PROPERTY

WATSON LAKE M.D. / YUKON

LINE NO -16+00E



SURFACE PROJECTION OF ANOMALOUS ZONE

DEFINITE
PROBABLE
POSSIBLE

FREQUENCY (HERTZ)
0.25:4.0 HZ.

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

DATE SURVEYED: AUG 1985

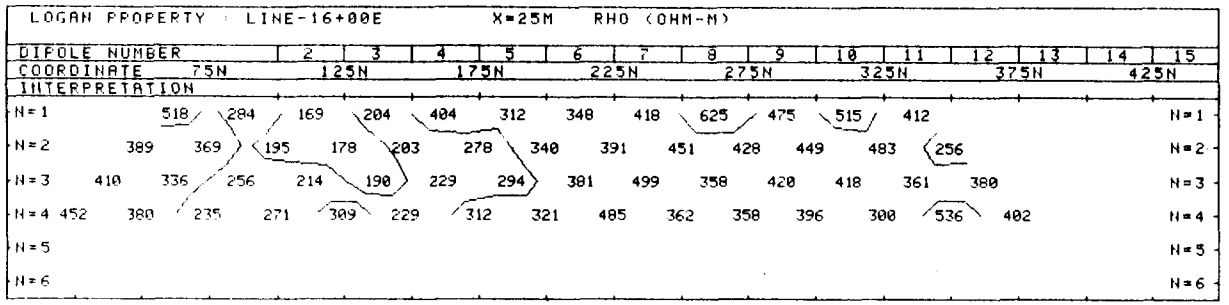
APPROVED

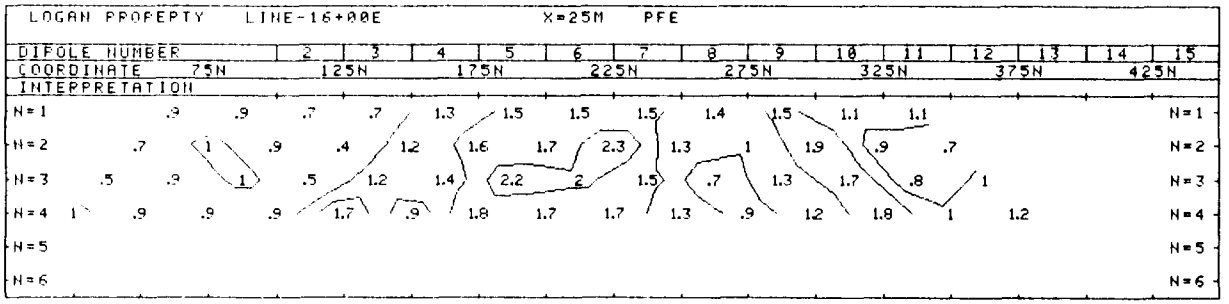
PAC

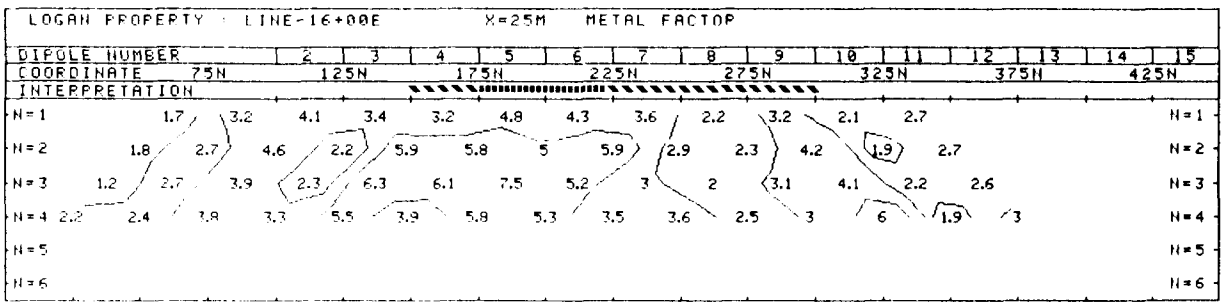
DATE DEC 17/85

PHOENIX GEOPHYSICS LTD.

INDUCED POLARIZATION AND RESISTIVITY SURVEY







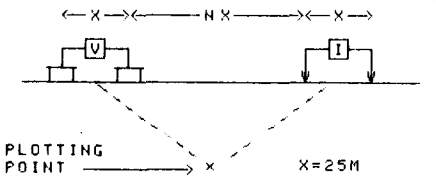
DWG. NO.-I.P.- 5869-8

CORDILLERAN ENGINEERING

LOGAN PROPERTY

WATSON LAKE M.D. / YUKON

LINE NO.-16+00E



SURFACE PROJECTION OF ANOMALOUS ZONE

DEFINITE
PROBABLE
POSSIBLE

FREQUENCY (HERTZ)
0.25/4.0 HZ.

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

DATE SURVEYED: AUG. 1985

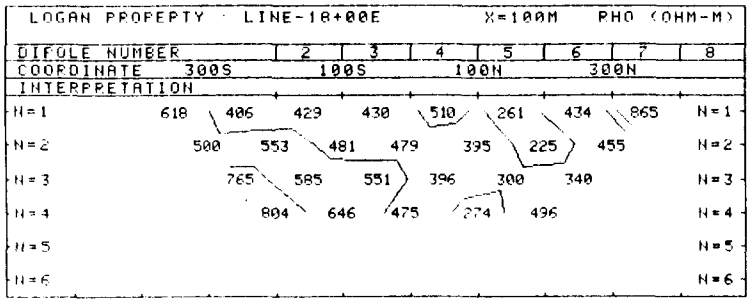
APPROVED

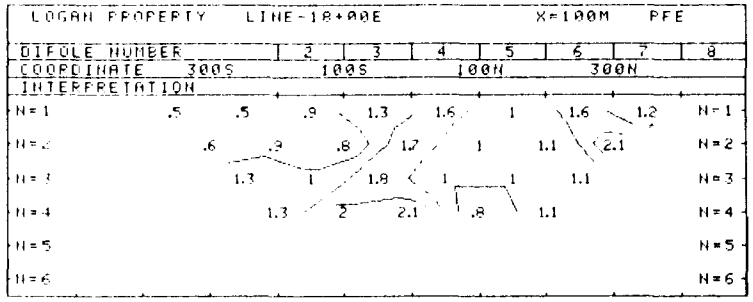
PAC

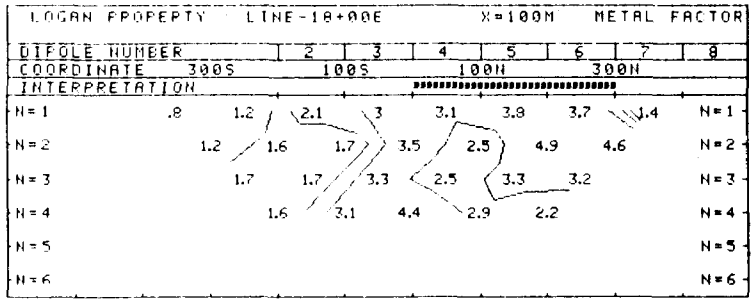
DATE Dec 17/85

PHOENIX GEOPHYSICS LTD.

INDUCED POLARIZATION AND RESISTIVITY SURVEY







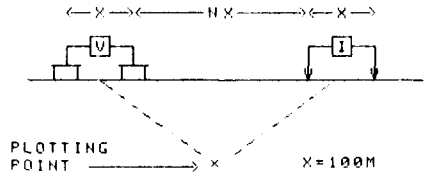
DWG. NO -I.P.- **5869-9**

CORDILLERAN ENGINEERING

LOGAN PROPERTY

WATSON LAKE M.D. / YUKON

LINE NO -18+00E



SURFACE PROJECTION OF ANOMALOUS ZONE

DEFINITE
PROBABLE
POSSIBLE

FREQUENCY (HERTZ)
0.25/4.0 HZ.

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

DATE SURVEYED: AUG 1995

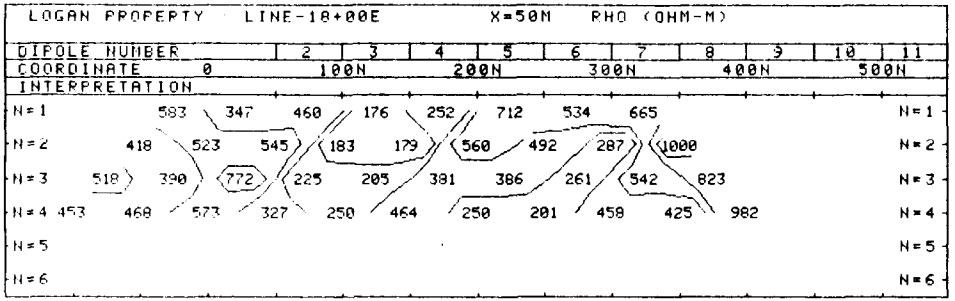
APPROVED

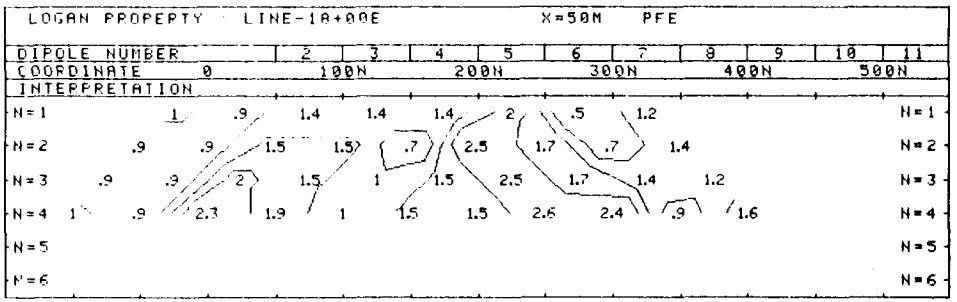
PAC

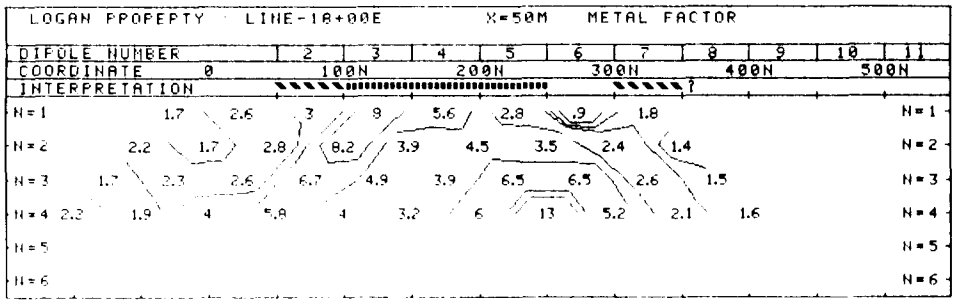
DATE DEC 17/95

PHOENIX GEOPHYSICS LTD.

INDUCED POLARIZATION AND RESISTIVITY SURVEY







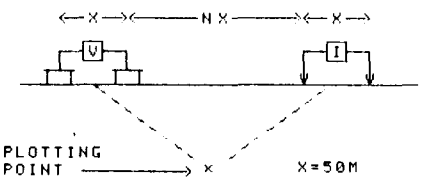
DWG. NO. -I.P.- 5869-10

CORDILLERAN ENGINEERING

LOGAN PROPERTY

WATSON LAKE M.D. / YUKON

LINE NO -18+00E



SURFACE PROJECTION OF ANOMALOUS ZONE

DEFINITE
PROBABLE
POSSIBLE

FREQUENCY (HERTZ)
0.25:4.0 HZ.

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

DATE SURVEYED AUG 1985

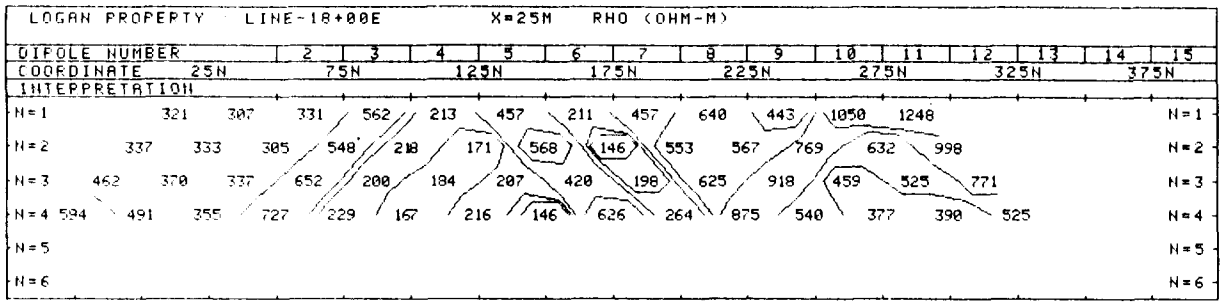
APPROVED

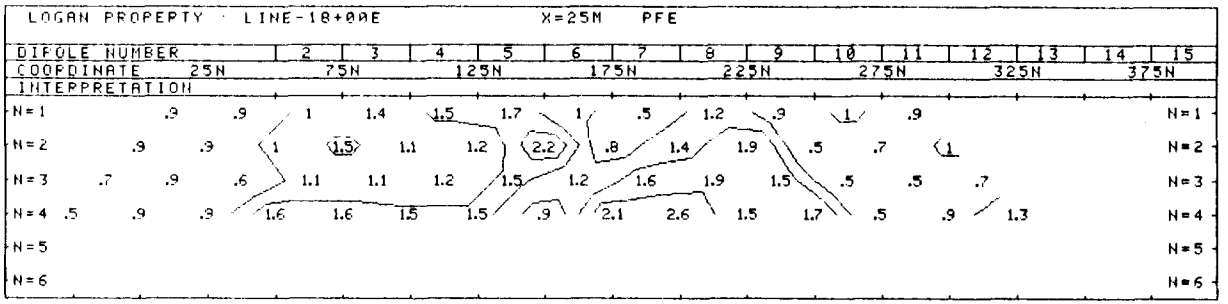
PAC

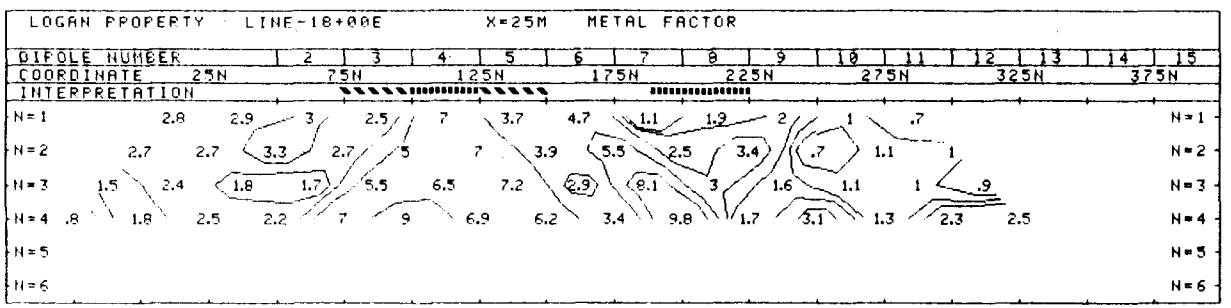
DATE DEC 17/85

PHOENIX GEOPHYSICS LTD.

INDUCED POLARIZATION AND RESISTIVITY SURVEY







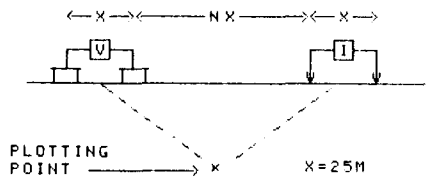
DWG NO.-I P- 5869-11

CORDILLERAN ENGINEERING

LOGAN PROPERTY

WATSON LAKE M.D. / YUKON

LINE NO -18+00E



SURFACE PROJECTION OF ANOMALOUS ZONE

DEFINITE
PROBABLE
POSSIBLE

FREQUENCY (HERTZ)
0.25;4.0 HZ.

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

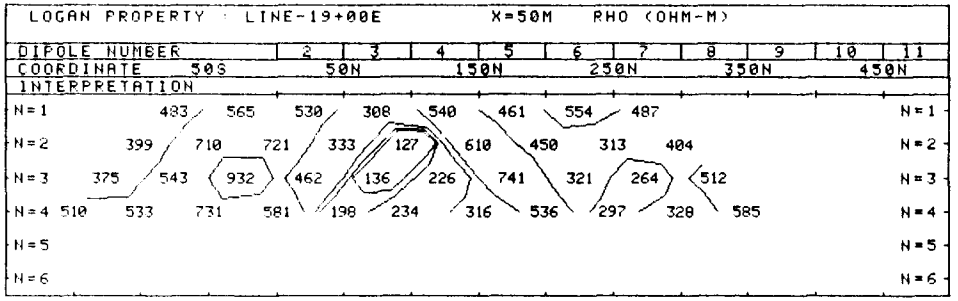
DATE SURVEYED: AUG. 1985

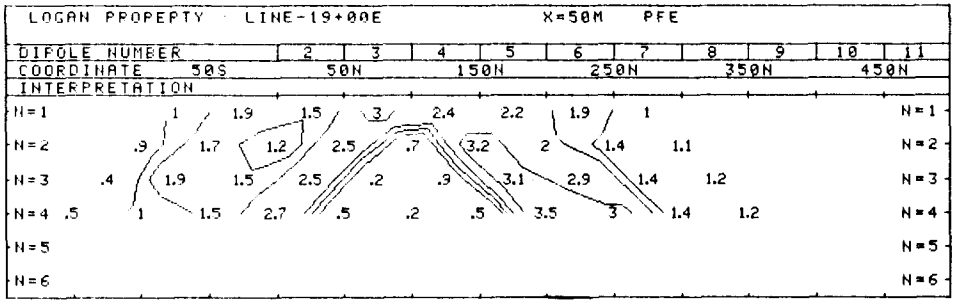
APPROVED

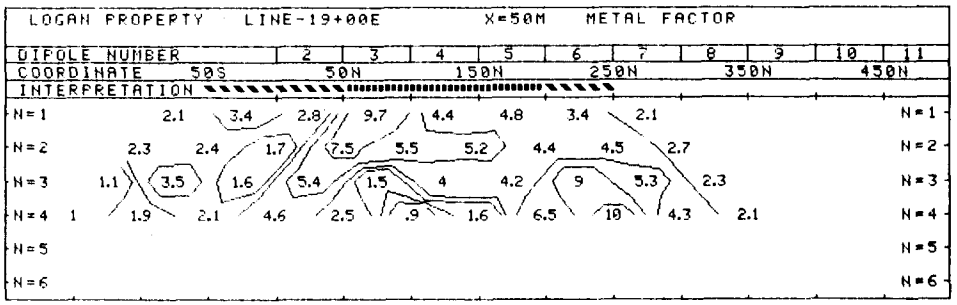
DATE DEC 17/85

PHOENIX GEOPHYSICS LTD.

INDUCED POLARIZATION AND RESISTIVITY SURVEY







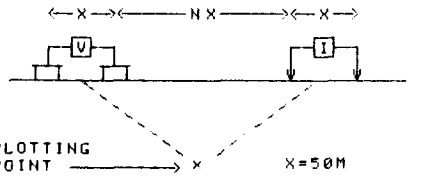
DWG. NO.-I.P.- **5869-12**

CORDILLERAN ENGINEERING

LOGAN PROPERTY

WATSON LAKE M.D. / YUKON

LINE NO.-19+00E



SURFACE PROJECTION OF ANOMALOUS ZONE

DEFINITE
PROBABLE
POSSIBLE

FREQUENCY (HERTZ)
0.25;4.0 HZ.

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

DATE SURVEYED: AUG. 1985

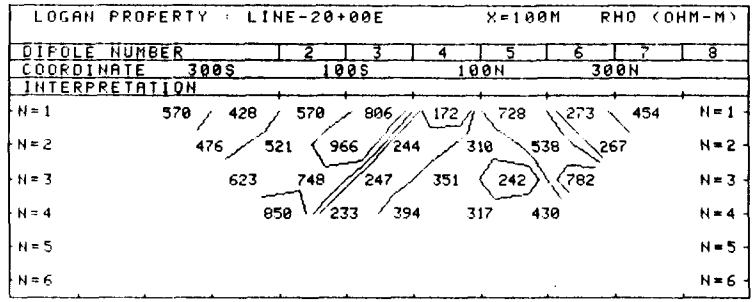
APPROVED

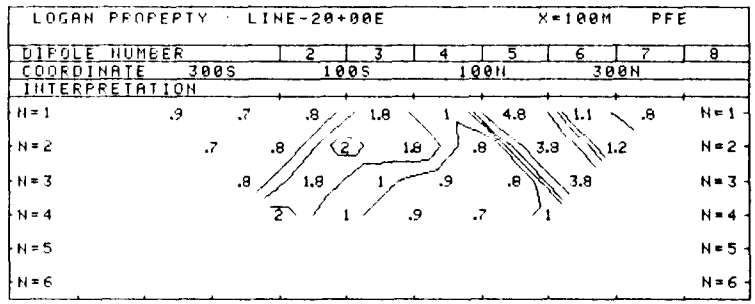
PAC

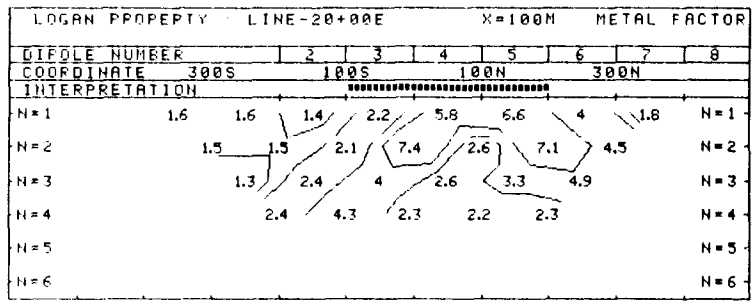
DATE Dec 17/85

PHOENIX GEOPHYSICS LTD.

INDUCED POLARIZATION AND RESISTIVITY SURVEY







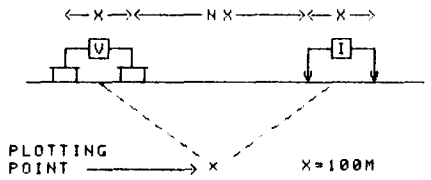
DWG NO.-I.P.-5869-13

CORDILLERAN ENGINEERING

LOGAN PROPERTY

WATSON LAKE M.D. / YUKON

LINE NO -20+00E



SURFACE PROJECTION OF ANOMALOUS ZONE

DEFINITE
PROBABLE
POSSIBLE

FREQUENCY (HERTZ)
0.25;4.0 HZ.

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

DATE SURVEYED AUG 1985

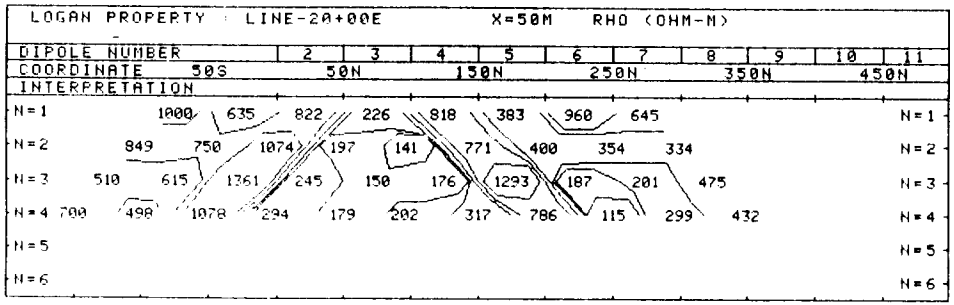
APPROVED

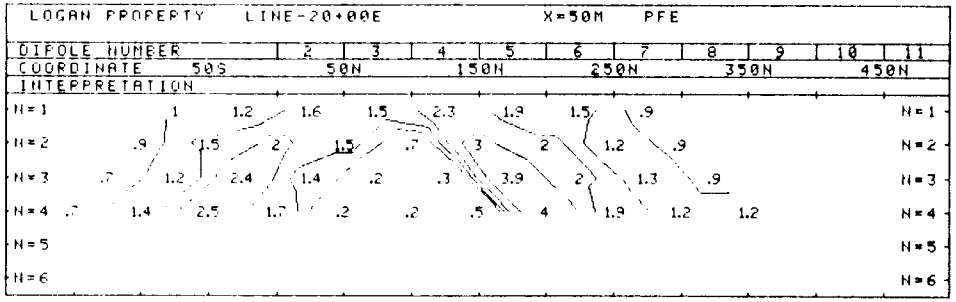
PAC

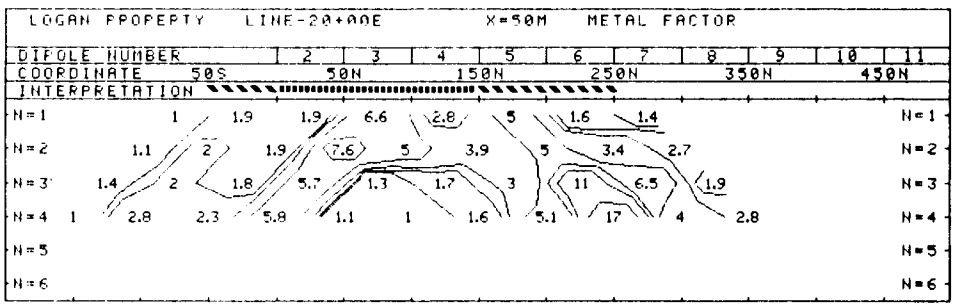
DATE DEC 17/85

PHOENIX GEOPHYSICS LTD.

INDUCED POLARIZATION AND RESISTIVITY SURVEY







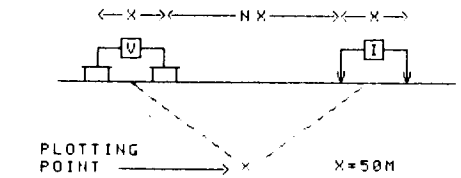
DWG NO.-I.P.- **5869-14**

CORDILLERAN ENGINEERING

LOGAN PROPERTY

WATSON LAKE M.D. / YUKON

LINE NO.-20+00E



SURFACE PROJECTION OF ANOMALOUS ZONE

DEFINITE
PROBABLE
POSSIBLE

FREQUENCY (HERTZ)
0.25;4.0 HZ.

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

DATE SURVEYED: AUG. 1985

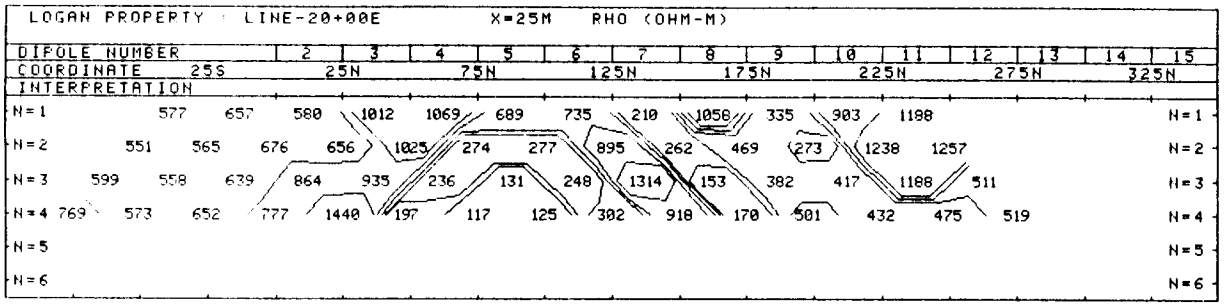
APPROVED

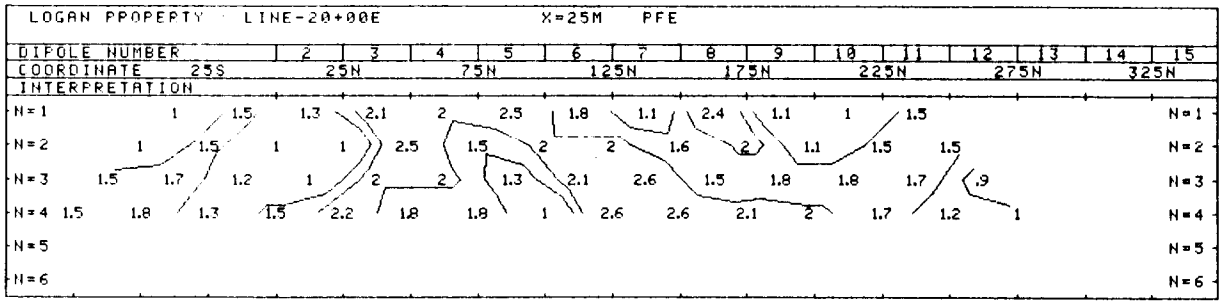
DAC

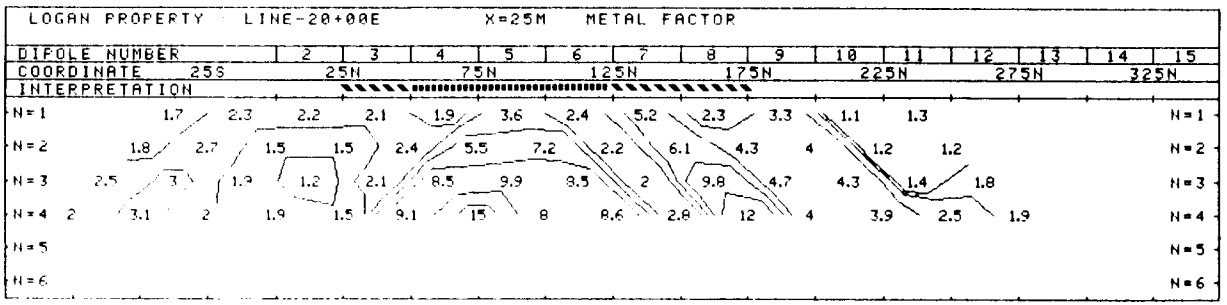
DATE DEC 17/85

PHOENIX GEOPHYSICS LTD.

INDUCED POLARIZATION AND RESISTIVITY SURVEY







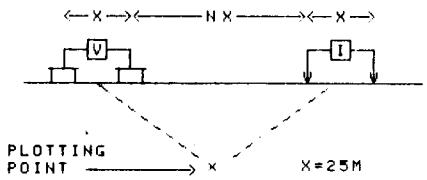
DWG. NO.-I.P.-5869-15

CORDILLERAN ENGINEERING

LOGAN PROPERTY

WATSON LAKE M.D. / YUKON

LINE NO.-20+00E



SURFACE PROJECTION OF ANOMALOUS ZONE

DEFINITE
PROBABLE
POSSIBLE

FREQUENCY (HERTZ)
0.25:4.0 HZ.

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

DATE SURVEYED: AUG. 1985

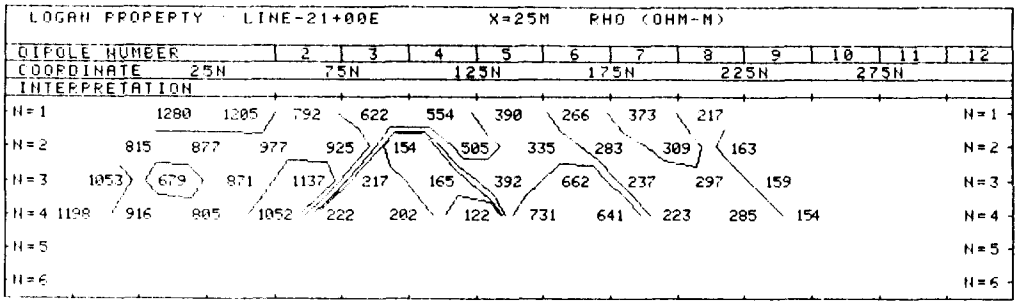
APPROVED

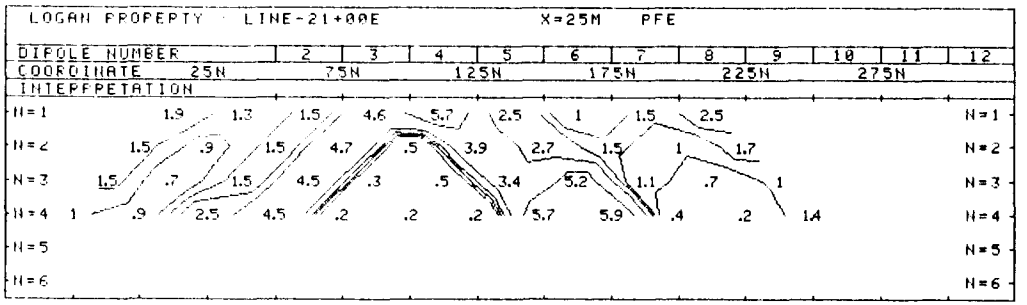
PAC

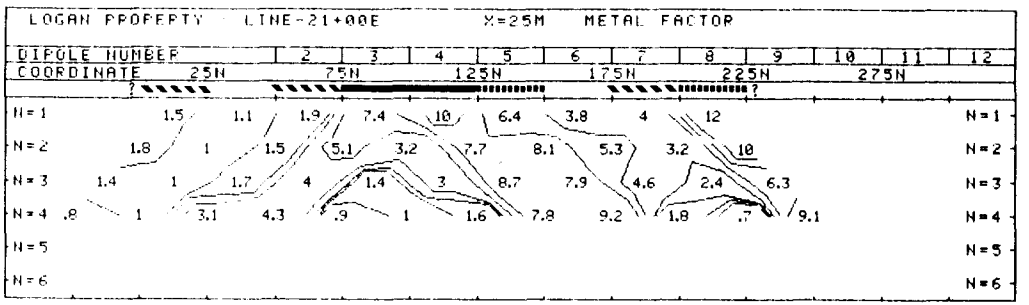
DATE Dec 17/85

PHOENIX GEOPHYSICS LTD.

INDUCED POLARIZATION AND RESISTIVITY SURVEY







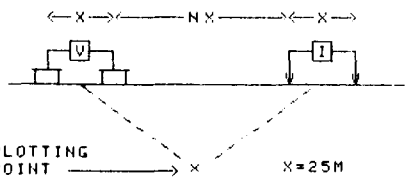
DWG NO. -I P - 5869-16

CORDILLERAN ENGINEERING

LOGAN PROPERTY

WATSON LAKE M.D. / YUKON

LINE NO. -21+00E



SURFACE PROJECTION OF ANOMALOUS ZONE

DEFINITE
PROBABLE
POSSIBLE

FREQUENCY (HERTZ)
0.25/4.0 HZ.

NOTE- CONTOURS AT LOGARITHMIC INTERVALS 1,-1.5 -2,-3,-5,-7 5,-10

DATE SURVEYED AUG 1985

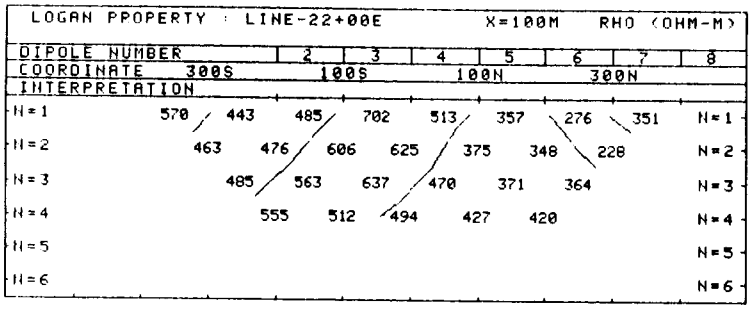
APPROVED

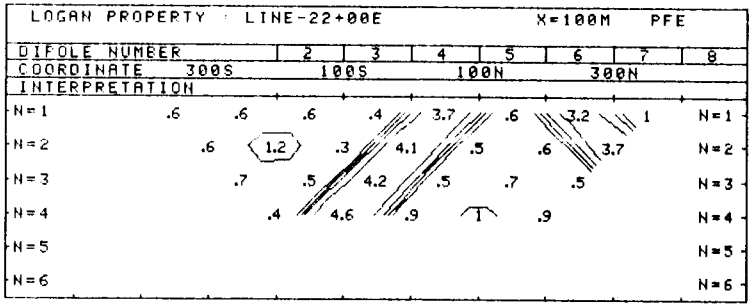
PAC

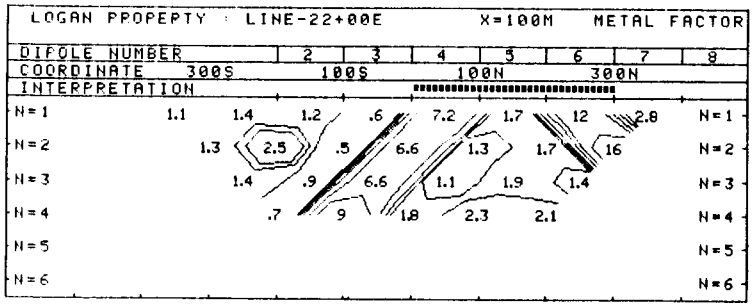
DATE Dec 17/85

PHOENIX GEOPHYSICS LTD.

INDUCED POLARIZATION AND RESISTIVITY SURVEY







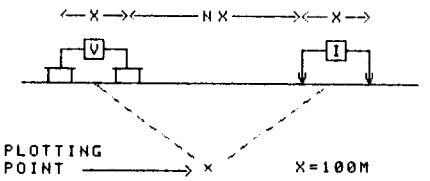
DWG. NO.-I.P.-**5869-17**

CORDILLERAN ENGINEERING

LOGAN PROPERTY

WATSON LAKE M.D. / YUKON

LINE NO -22+00E



SURFACE PROJECTION OF ANOMALOUS ZONE

DEFINITE
PROBABLE
POSSIBLE

FREQUENCY (HERTZ)
0.25;4.0 HZ.

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

DATE SURVEYED: AUG. 1985

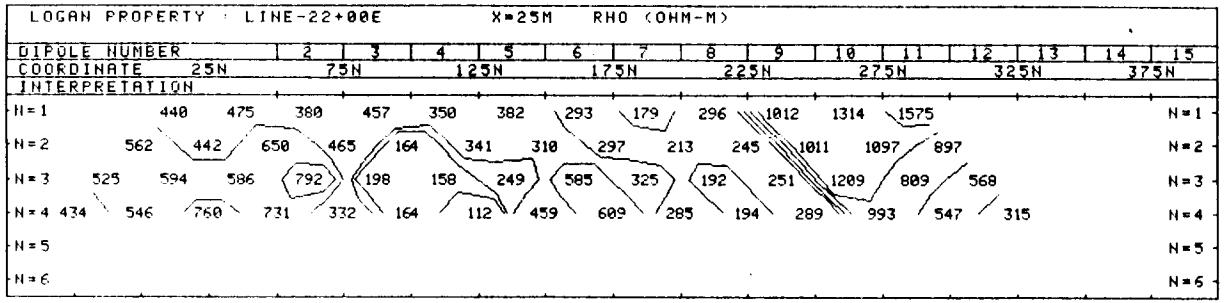
APPROVED

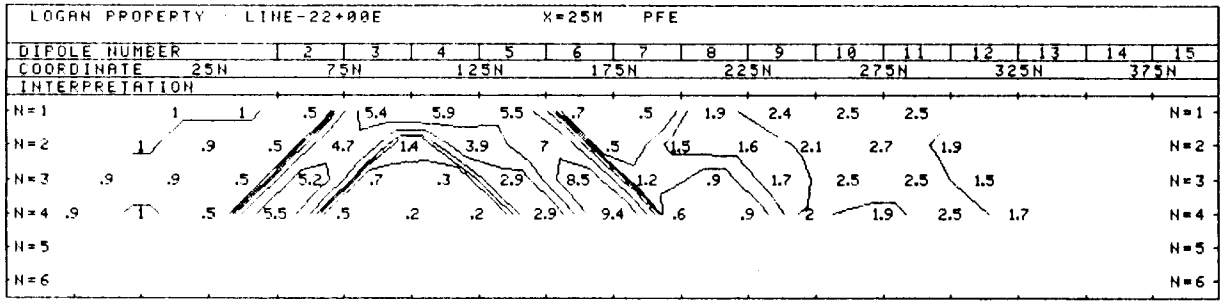
PAC

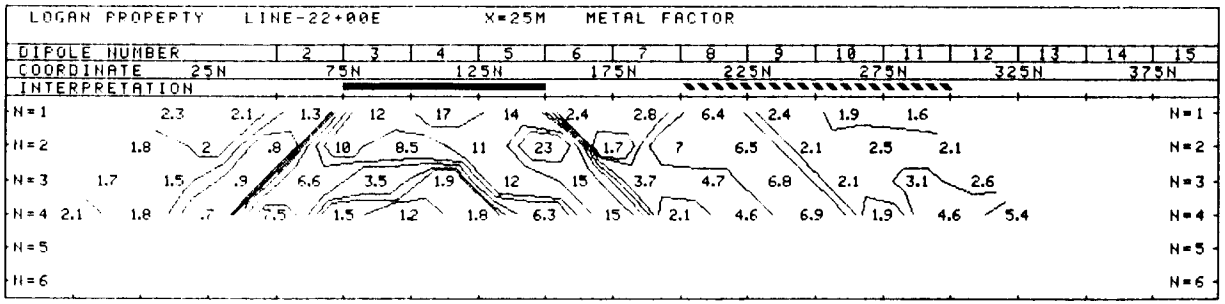
DATE DEC 17/85

PHOENIX GEOPHYSICS LTD.

INDUCED POLARIZATION AND RESISTIVITY SURVEY







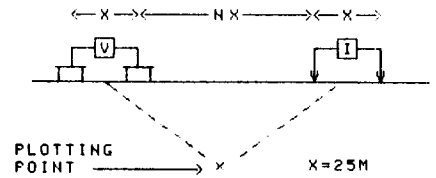
DWG NO.-I.P.- **5869-18**

CORDILLERAN ENGINEERING

LOGAN PROPERTY

WATSON LAKE M.D / YUKON

LINE NO -22+00E



SURFACE PROJECTION OF ANOMALOUS ZONE

DEFINITE
PROBABLE
POSSIBLE

FREQUENCY (HERTZ)
0.25;4.0 HZ.

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

DATE SURVEYED AUG 1985

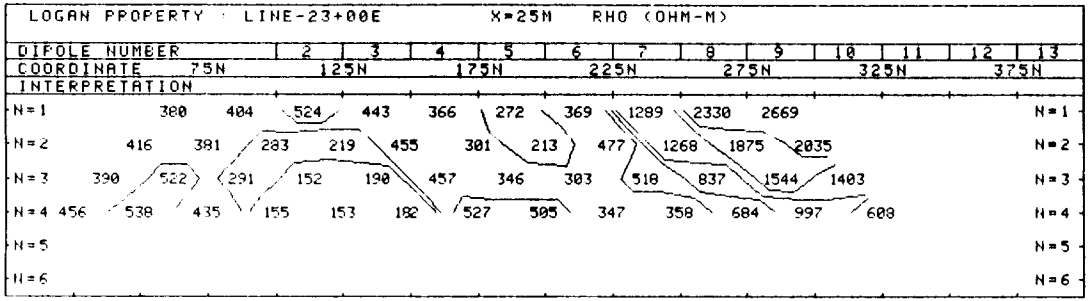
APPROVED

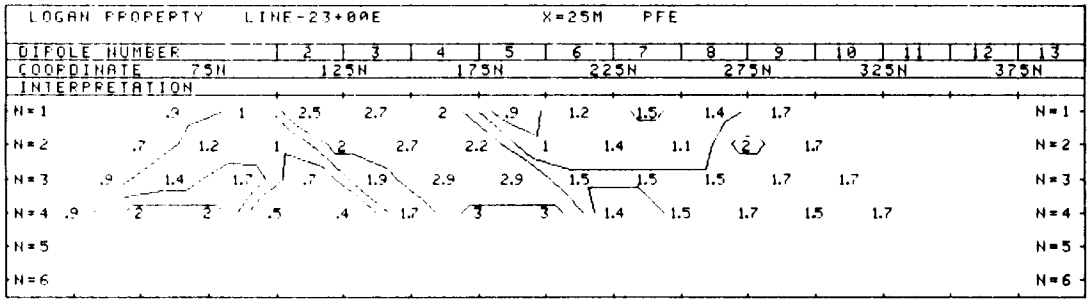
PAC

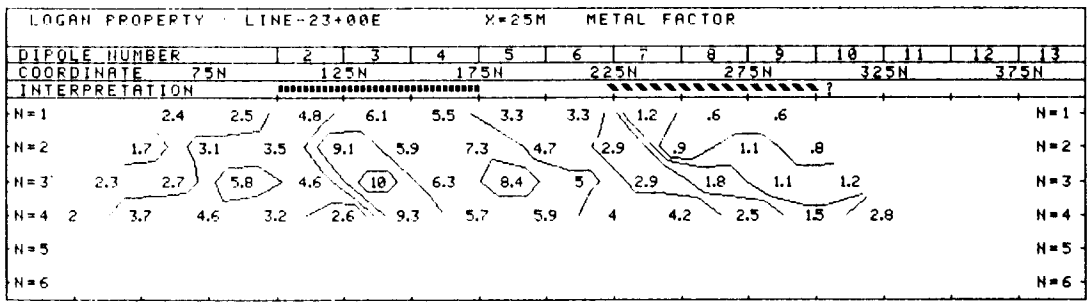
DATE DEC 17/85

PHOENIX GEOPHYSICS LTD.

INDUCED POLARIZATION AND RESISTIVITY SURVEY







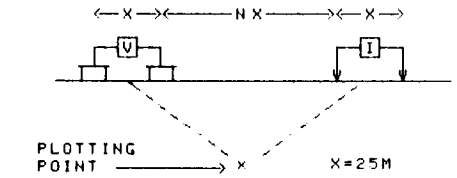
DWG. NO. -I.P.- **5869-19**

CORDILLERAN ENGINEERING

LOGAN PROPERTY

WATSON LAKE M.D. / YUKON

LINE NO. -23+00E



SURFACE PROJECTION OF ANOMALOUS ZONE

DEFINITE
PROBABLE
POSSIBLE

FREQUENCY (HERTZ)
0.25/4.0 HZ.

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

DATE SURVEYED AUG. 1985

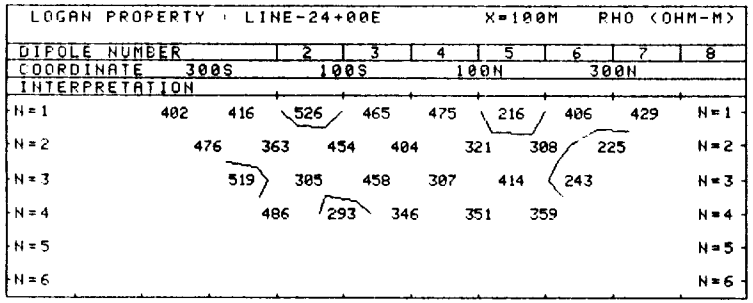
APPROVED

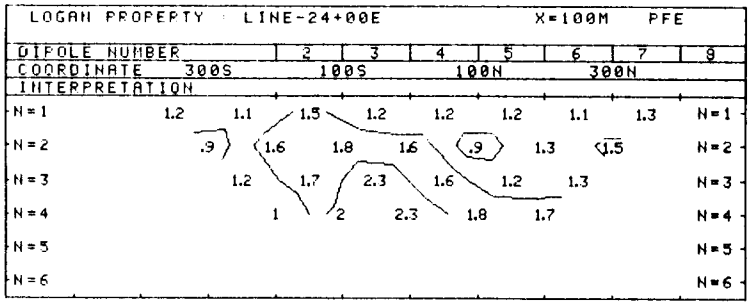
PAC

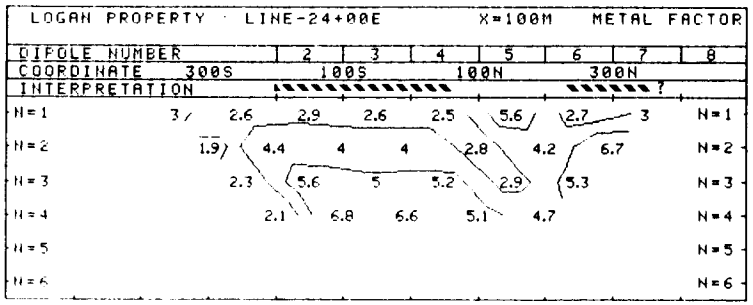
DATE DEC 17/85

PHOENIX GEOPHYSICS LTD.

INDUCED POLARIZATION AND RESISTIVITY SURVEY







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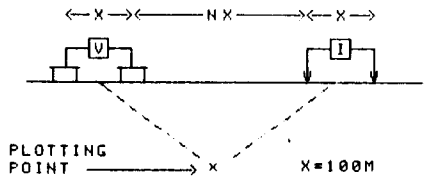
CORDILLERAN ENGINEERING

LOGAN PROPERTY

WATSON LAKE M.D. / YUKON

LINE NO. -24+00E



SURFACE PROJECTION OF ANOMALOUS ZONE

DEFINITE
PROBABLE
POSSIBLE

FREQUENCY (HERTZ)
0.25/4.0 HZ.

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

DATE SURVEYED: AUG. 1985

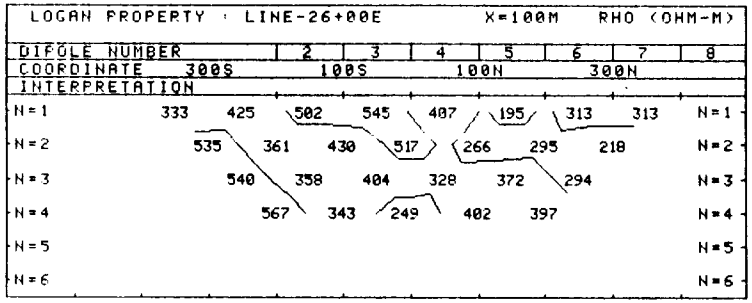
APPROVED

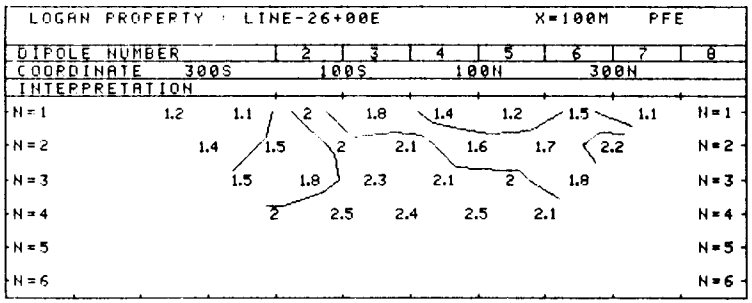
PAC

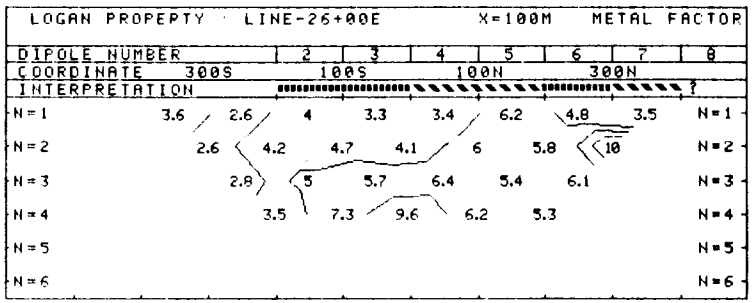
DATE DEC 12/85

PHOENIX GEOPHYSICS LTD.

INDUCED POLARIZATION AND RESISTIVITY SURVEY







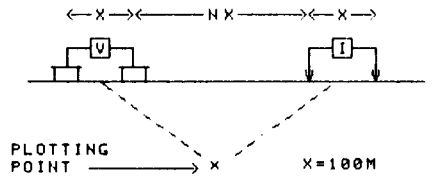
DWG. NO.-I.P.- ~~5069-21~~

CORDILLERAN ENGINEERING

LOGAN PROPERTY

WATSON LAKE M.D. / YUKON

LINE NO.-26+00E



SURFACE PROJECTION OF ANOMALOUS ZONE

DEFINITE
PROBABLE
POSSIBLE

FREQUENCY (HERTZ)
0.25/4.0 HZ.

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

DATE SURVEYED AUG. 1985

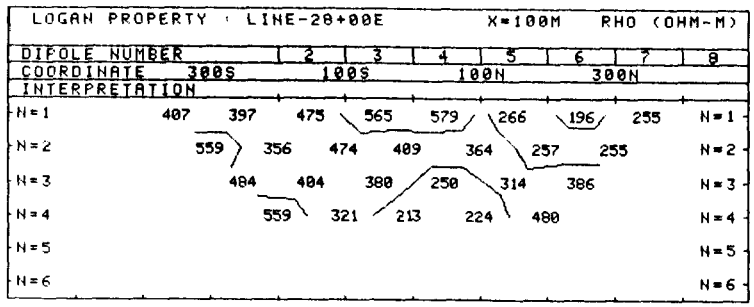
APPROVED

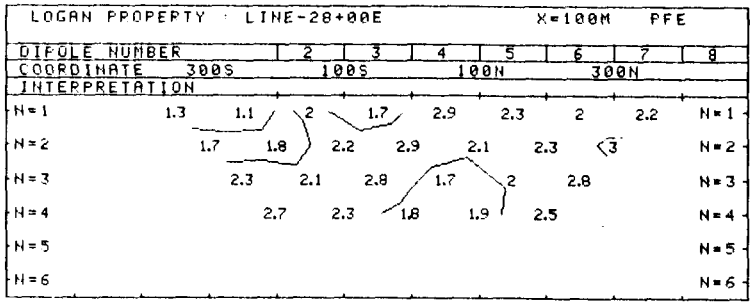
PAC

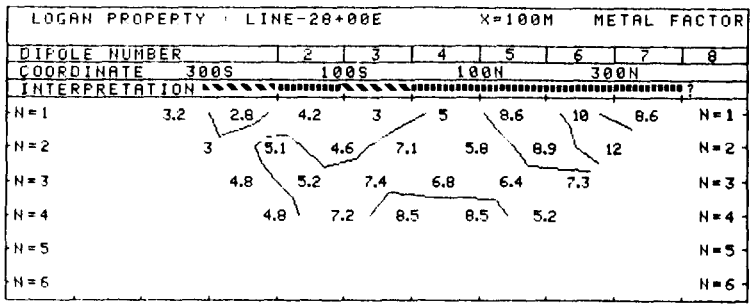
DATE DEC 17/85

PHOENIX GEOPHYSICS LTD.

INDUCED POLARIZATION AND RESISTIVITY SURVEY







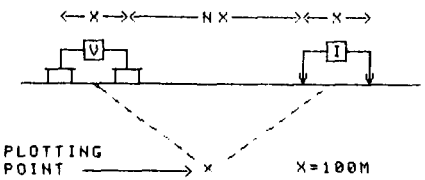
DWG. NO.-I.P.-5869-22

CORDILLERAN ENGINEERING

LOGAN PROPERTY

WATSON LAKE M.D. / YUKON

LINE NO.-28+00E



SURFACE PROJECTION OF ANOMALOUS ZONE

DEFINITE
PROBABLE
POSSIBLE

FREQUENCY (HERTZ)
0.25/4.0 HZ.

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

DATE SURVEYED: AUG. 1985

APPROVED

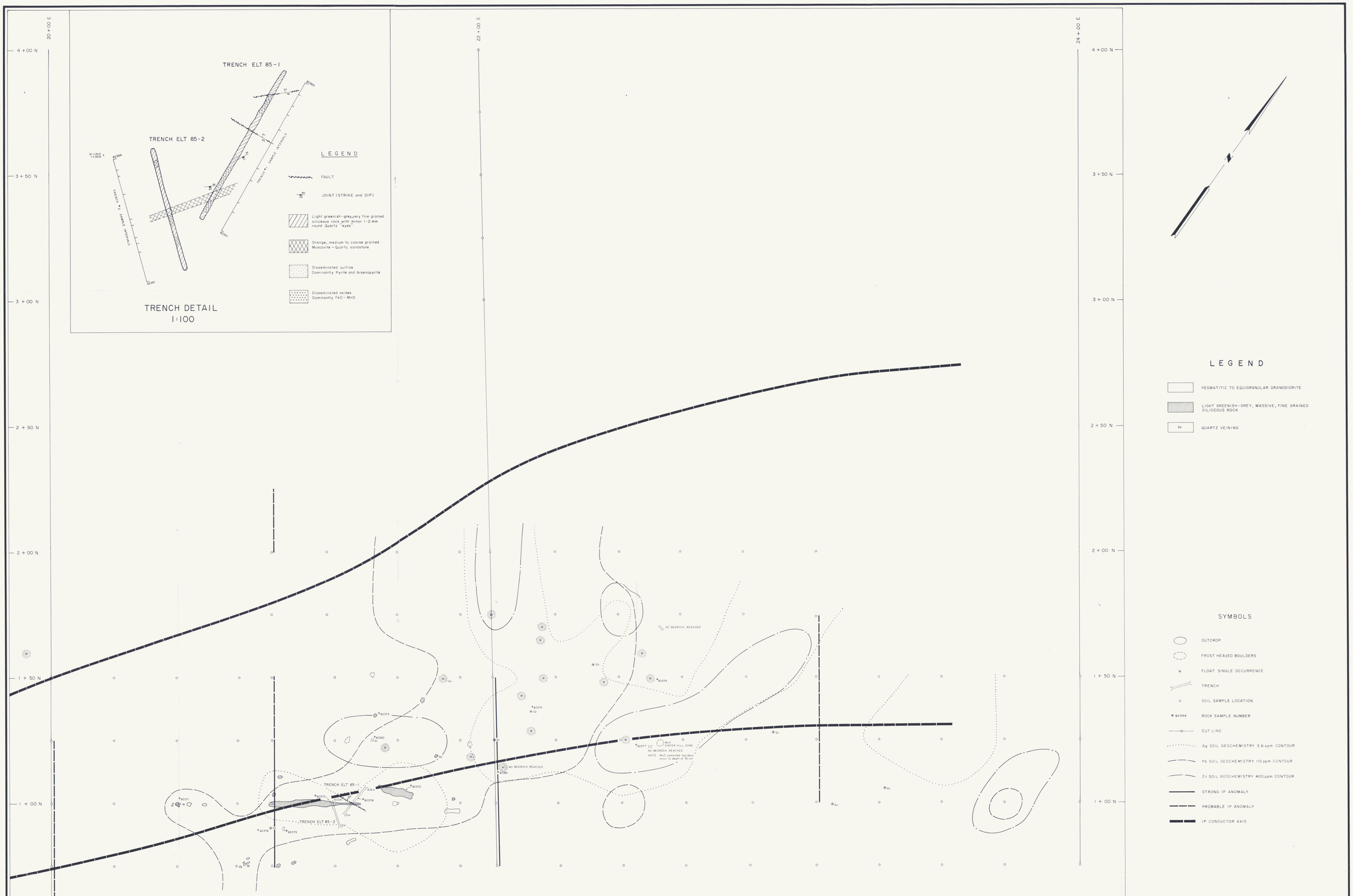
PAC

DATE DEC 17/85

PHOENIX GEOPHYSICS LTD.

INDUCED POLARIZATION AND RESISTIVITY SURVEY

TRENCH DETAIL
1:100



TRENCH RESULTS

SAMPLE #	LOCATION	TYPE	Ag oz/T / ppm	Pb % / ppm	Zn % / ppm	Sn ppm	Cu ppm	As ppm
82351	ELT 85-1 0-1.7m	REPRESENT CHIP	7.5	810	2400	78	130	90
82352	ELT 85-1 1.7-2.5 m	"	4.6	69	328	6	43	100
82353	ELT 85-1 2.5-4.6 m	"	25.0	545	2300	27	108	>1000
82354	ELT 85-1 4.6-5.7m	"	0.52	0.16	0.55	145	139	>1000
82355	ELT 85-1 5.7-8.0 m	"	22	825	1100	370	74	>1000
82356	ELT 85-1 8.0-9.2 m	"	5.4	410	550	76	66	63
82357	ELT 85-1 9.2-10.6m	"	3.8	85	1220	87	32	38
82358	ELT 85-1 10.5-11.4m	"	18.0	347	6340	67	128	700
82359	ELT 85-1 11.4-12.2m	"	10.0	164	790	140	73	78
82360	ELT 85-1 12.2-13.6m	"	33.0	690	540	220	64	80
82361	ELT 85-2 0-2.3m	"	1.4	277	150	<5	24	20
82362	ELT 85-2 2.3-3.0m	"	3.8	450	5700	<5	77	37
82363	ELT 85-2 3.0-3.5m	"	4.9	505	715	<5	66	42
82364	ELT 85-2 3.5-4.5m	"	3.5	374	1445	56	66	42
82365	ELT 85-2 4.5-5.0m	"	3.8	348	375	24	19	110
82366	ELT 85-2 5.0-7.0m	"	4.7	266	745	64	99	60
82367	ELT 85-2 7.0-8.5m	"	46.0	465	545	350	142	>1000
82368	ELT 85-2 8.5-9.0m	"	4.04	3670	194	920	44	400
82369	ELT 85-2 9.0-10.0m	"	7.48	1365	430	1200	77	>1000

GRAB SAMPLE RESULTS

SAMPLE #	LOCATION	TYPE	Ag oz/T / ppm	Pb % / ppm	Zn % / ppm	Sn ppm	Cu ppm	As ppm
82370	21+25E 1+00N	GRAB	18.0	620	6740	220	205	>1000
82371	20+55E 1+00N	"	8.90	0.03	0.05	530	1720	>1000
82372	21+55E 1+05N	"	22.0	2990	1195	165	520	>1000
82373	21+40E 1+35N	"	8.02	0.45	0.16	40	220	
82374	22+65E 1+30N	"	0.06	78	1025	95	66	83
82375	22+15E 1+30N	"	0.63	0.01	0.38	25	124	>1000
82376	21+00E 0+90N	"	0.3	8	39	<5	4	400
82377	22+85E 1+21N	"	2.3	26	2700	<5	49	600
82378	21+34E 1+02N	"	31.0	370	5560	165	215	115
82379	21+05E 0+75N	"	3.38	2680	435	<5	114	>1000
82381	22+04E 1+35N	"	11	790	179	14	49	
82382	21+45E 1+22N	"	37	1.49	770	<5	31	>1000

LEGEND

- PEGMATITIC TO EQUIGRANULAR GRANODIORITE
- LIGHT GREENISH-GREY, MASSIVE, FINE GRAINED SILICEOUS ROCK
- Qz QUARTZ VEINING

SYMBOLS

- OUTCROP
- FROST HEAVED BOULDERS
- FLOAT SINGLE OCCURRENCE
- TRENCH
- SOIL SAMPLE LOCATION
- #82354 ROCK SAMPLE NUMBER
- CUT LINE
- Ag SOIL GEOCHEMISTRY 3.6 ppm CONTOUR
- Pb SOIL GEOCHEMISTRY 110 ppm CONTOUR
- Zn SOIL GEOCHEMISTRY 400 ppm CONTOUR
- STRONG IP ANOMALY
- PROBABLE IP ANOMALY
- IP CONDUCTOR AXIS

GETTY CANADIAN METALS, LIMITED
REGIONAL RESOURCES LTD.

COMPILATION MAP

EAST ZONE
LOGAN CLAIM GROUP
WOLF LAKE MAP AREA, N.T.S. 105B/7,8,9 & 10
WATSON LAKE MINING DISTRICT, YUKON TERRITORY

SCALE 1 : 500
10 0 10 20 30 METRES

BY
CORDILLERAN ENGINEERING
1980 – 1055 W. HASTINGS STREET
VANCOUVER, B.C. V6E 2E9

DECEMBER 1985

091783 PLATE 1

ROCK SAMPLE RESULTS – LOGAN WEST (1984)

TAG No	Cu ppm	Pb ppm	Zn ppm	Ag ppm	As ppm	Sn ppm	Au ppb	DESCRIPTION
20	740	1465	2000	24.0	155	35	< 5	IRON AND MANGANESE OXIDES
21	97	27	720	1.8	>1000	13	160	PYRITE AND ARSENO PYRITE
22	6	35	92	2.0	205	10	15	PYRITE AND QUARTZ BRECCIA
24	—	—	—	< .2	—	1000	5	———
25	56	19	208	9.6	—	5500	—	SILICIFIED INTRUSIVE
27	—	18	15	1.5	1000	16	40	SILICIFIED GREISEN, ARSENO PYRITE
28	—	—	—	1.3	>1000	18	60	SILICIFIED GREISEN, ARSENO PYRITE
29	—	—	—	2.5	210	29	10	SILICIFIED INTRUSIVE, IRON OXIDE
30	41	83	160	10.0		125	< 5	GREISEN, VUGGY QUARTZ
31	126	6	224	0.8	—	370	< 5	———
32	17	16	25	1.2	>1000	29	30	GREISEN, ARSENO PYRITE
33	28	32	680	0.4	—	21	—	———

NOTE: ALL GRAB SAMPLES

ROCK SAMPLE RESULTS – LOGAN CENTRAL (1984)

TAG No	SAMPLE TYPE	Cu ppm	Cu %	Pb ppm	Pb %	Zn ppm	Zn %	Ag ppm	Ag oz/ton	As ppm	As %	Sn ppm	Sn %	Au ppb	Au oz/ton	DESRIPTION
10	GRAB	—	.15	—	.51	—	.08	—	5.60	—	—	—	.02	—	.005	TRACE GALENA, TETRAHEDRITE, PYRITE
11	GRAB	—	.08	178	—	364	—	—	.02	—	—	4540	—	—	< .002	SILICIFIED GREISEN
12	GRAB	22	—	32	—	28	—	16.0	—	—	—	13	—	—	—	SILICIFIED GREISEN CHALCEDONY BRECCIA
13	GRAB	—	.70	—	.02	—	.04	—	2.74	—	19.89	—	<.01	—	.002	ARSENOPYRITE, SILICIFIED INTRUSIVE
14	GRAB	14	—	70	—	56	—	—	.05	—	—	< 5	—	—	< .002	IRON OXIDE RICH
15	GRAB	—	.14	60	—	194	—	—	.76	—	—	25	—	—	< .002	ARSENOPYRITE IN QUARTZ VEIN
16	GRAB	—	.26	1000	—	3000	—	—	14.70	—	—	13	—	—	.002	TETRAHEDRITE IN QUARTZ VEIN
17	GRAB	1000	—	470	—	4600	—	34.0	—	—	—	150	—	< 5	—	OXIDE RICH, QUARTZ VEINING
18	GRAB	—	.39	.06	—	.04	—	—	2.64	—	—	—	.04	—	< .002	TETRAHEDRITE IN QUARTZ VEIN
19	GRAB	—	.06	127	—	1450	—	—	.70	—	—	1000	—	—	< .002	PYRITE – ARSENOPYRITE IN GREISEN
23	GRAB	—	—	93	—	19000	—	2.7	—	—	—	< 5	—	< 5	—	OXIDIZED GREISEN, SPHALERITE
26	GRAB	—	—	38	—	440	—	< .2	—	—	—	< 5	—	< 5	—	OXIDIZED GREISEN, CLAY-RICH
20201	1m CHIP	—	.05	280	—	232	—	—	1.45	—	—	94	—	—	.002	TRENCH SAMPLE, GREISEN & QUARTZ VEINS
20202	1m CHIP	—	.02	720	—	208	—	—	1.29	—	—	185	—	—	< .002	TRENCH SAMPLE, GREISEN & QUARTZ VEINS
20203	GRAB	—	.38	135	—	180	—	—	1.32	—	—	55	—	—	< .002	TETRAHEDRITE IN QUARTZ VEIN
20204	GRAB	2400	—	1010	—	11800	—	—	2.41	—	—	—	.02	—	.002	SHEAR ZONE – OXIDIZED
20205	FLOAT	—	.06	—	.02	—	1.24	—	.72	—	1.48	—	.02	—	< .002	ARSENOPYRITE, SPHALERITE, TETRAHEDRITE IN QUARTZ VEIN
20206	GRAB	—	.01	174	—	570	—	—	1.41	> 1000	—	—	<.01	—	.002	ARSENOPYRITE, GREISEN

ROCK SAMPLE RESULTS – LOGAN EAST (1984)

TAG No	Cu ppm	Cu %	Pb ppm	Pb %	Zn ppm	Zn %	Ag ppm	Ag oz/ton	As ppm	As %	Sn ppm	Sn %	Au ppb	Au oz/ton	DESCRIPTION
1	—	—	6440	—	250	—	35.0	—	>1000	—	425	—	—	—	QUARTZ VEIN WITH MnO FeO
2	—	—	5700	—	113	—	28.0	—	>1000	—	30	—	—	—	QUARTZ VEIN WITH MnO, FeO, As
3	—	—	—	—	—	—	—	—	—	—	< 5	—	—	—	PEGMATITE WITH MnO FeO
4	—	—	—	—	—	—	—	—	—	—	18	—	—	—	GRANODIORITE WITH FeO
5	—	—	265	—	1430	—	2.1	—	—	—	66	—	—	—	SILICIFIED INTRUSIVE
6	—	—	415	—	18000	—	6.4	—	—	—	—	—	—	—	SPHALERITE IN BULL QUARTZ
7	—	—	286	—	1720	—	9.0	—	>1000	—	< 5	—	—	—	OXIDIZED PEGMATITE
8	—	—	775	—	—	6.2	—	2.15	28	—	1000	—	—	—	SPHALERITE, HIGHLY OXIDIZED
9	—	—	1990	—	550	—	—	11.03	>1000	—	52	—	—	—	ARSENOPYRITE – TETRAHEDRITE IN SILICIFIED INTRUSIVE
20208	—	<.01	—	.57	—	.21	—	3.07	—	.01	—	<.01	—	—	GALENA – TETRAHEDRITE IN QUARTZ
20209	—	.05	—	.15	—	.02	—	.61	—	.55	—	<.01	—	.002	ARSENOPYRITE IN SILICIFIED INTRUSIVE
20210	—	—	—	1.93	—	1.31	—	2.70	—	.01	—	.03	—	.002	GALENA IN SILICIFIED INTRUSIVE
20211	—	—	—	1.60	—	.20	—	23.67	—	.50	—	.06	—	.002	TETRAHEDRITE – GALENA VEINLETS
20212	—	—	—	<.01	—	<.01	—	.09	—	.87	—	<.01	—	<.002	MINERALIZED QUARTZ VEIN
20217	37	—	515	—	915	—	—	.07	—	.02	—	—	—	.002	ARSENOPYRITE – PYRITE
20218	36	—	20	—	1000	—	—	.09	—	—	—	<.01	—	<.002	ALTERED INTRUSIVE
20219	28	—	1585	—	303	—	—	.19	—	.02	—	<.01	—	.002	SILICIFIED QUARTZ VEIN
20220	59	—	15	—	337	—	—	.14	—	—	—	<.01	—	<.002	IRON AND MANGANESE OXIDE
20221	42	—	19	—	3150	—	—	.10	—	—	—	<.01	—	<.002	OXIDE-RICH ALTERED INTRUSIVE

NOTE: ALL GRAB SAMPLES
: FOR 1985 RESULTS SEE PLATE 1

LITHOLOGY

CRETACEOUS

- 1 — GRANODIORITE TO QUARTZ MONZONITE-UNDIVIDED PEGMATITIC AND EQUIGRANULAR PHASES
  - 1a — PEGMATITIC GRANODIORITE; MINOR EQUIGRANULAR AND GRAPHIC TEXTURES
  - 1c — PEGMATITIC GRANODIORITE; GRAPHIC TEXTURES DOMINANT
  - 1d — PEGMATITIC GRANODIORITE; MINOR METASEDIMENTARY ROCKS

CRETACEOUS

- 2 — GRANODIORITE; EQUIGRANULAR; NON PEGMATITIC
  - 2b — GRANODIORITE; EQUIGRANULAR; MINOR PEGMATITIC PHASES

LOWER CAMBRIAN AND EARLIER (?)

- 3 — QUARTZ-BIOTITE-MUSCOVITE SCHIST, MINOR QUARTZITE

SYMBOLS

- APPROXIMATE GEOLOGICAL CONTACT
- JOINT ATTITUDE
- OUTCROP LIMIT
- SOIL SAMPLE SITE
- □ 25 — ROCK SAMPLE LOCATION RESULTS AS GIVEN FOR ASSAYS AND/OR ROCK GEOCHEMISTRY
- ■ 82380 — 1985 SAMPLE LOCATION (COMPLETE RESULTS IN APPENDIX)
- CUT LINE
- x — MINERALIZATION
  - Ag TETRAHEDRITE
  - As ARSENOPYRITE
  - Pb GALENA
  - Zn SPHALERITE
  - Py PYRITE
  - Cu CHALCOPYRITE
  - Qtz QUARTZ VEINING
- TRENCH

GEOCHEMISTRY

- 110 ppm LEAD CONTOUR
- 100 ppm TIN CONTOUR
- 3.6 ppm SILVER CONTOUR

GEOPHYSICS

- DEFINITE IP ANOMALY, 100m DIPOLE
- PROBABLE IP ANOMALY, 100m DIPOLE
- DEFINITE IP ANOMALY, 25m DIPOLE

NOTE:
DRAINAGES FROM ORTHOPHOTO (BURNETT RESOURCES)

GETTY CANADIAN METALS, LIMITED
REGIONAL RESOURCES LTD.

COMPILATION MAP

LOGAN CLAIM GROUP
WOLF LAKE MAP AREA, N.T.S. 105B/7,8,9 & 10
WATSON LAKE MINING DISTRICT, YUKON TERRITORY

SCALE : 1:10,000
100 0 100 200 300 METRES

BY
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JANUARY 1986 **091783** PLATE 2