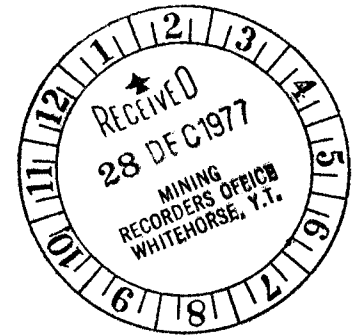




**WELCOME NORTH MINES LTD. (N.P.L.)**  
1027 - 470 Granville St., Vancouver, B.C. V6C 1V5 Telephone (604) 687-1658

DO - 172

REPORT ON  
DIAMOND DRILLING PROGRAM  
ON THE  
RAZ 1-182 MINERAL CLAIMS



Latitude 62°19'N

Longitude 133°02'W

N.T.S. 105K-6  
WHITEHORSE MINING DISTRICT  
YUKON TERRITORY

Work performed during the period August 14 - August 24, 1977

by

Robert T. Holland  
December 15, 1977

091251

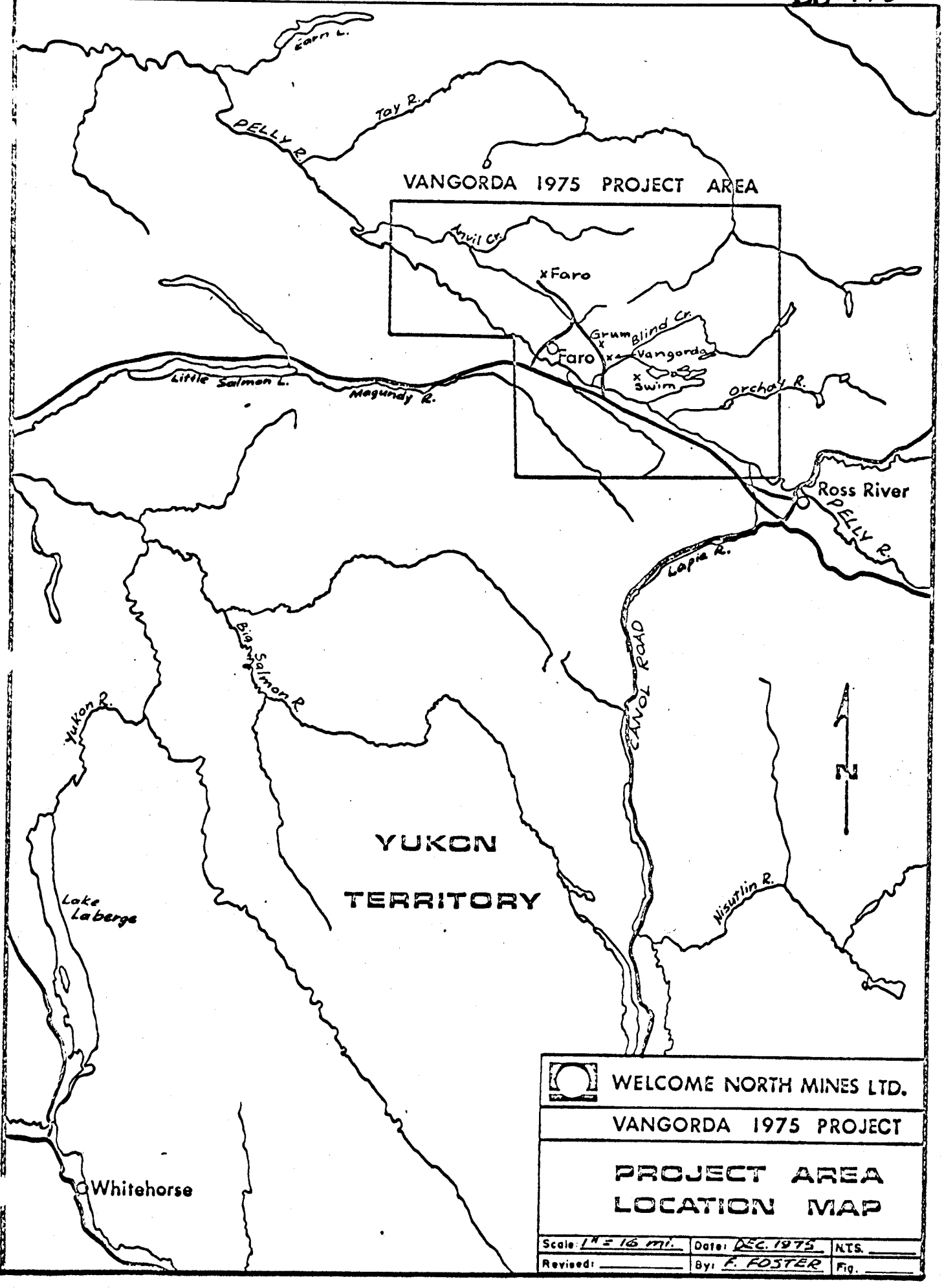
105-K-6

Welcome NORTH MINES LTD (P.R.C)

RAZ 120 (YA 8546)

1 HOLE - 357 FT

DD-172



VANGORDA 1975 PROJECT AREA

YUKON TERRITORY



WELCOME NORTH MINES LTD.

VANGORDA 1975 PROJECT

PROJECT AREA LOCATION MAP

Scale: 1" = 16 mi.	Date: DEC. 1975	NTS.
Revised:	By: F. FOSTER	Fig.

Lake Laberge

Whitehorse



INTRODUCTION

The BAR 1-20 claims, previously held by the Vangorda '75 Project, were restaked as the RAZ 1-20 claims by Welcome North Mines in August, 1975 as part of the Vangorda '75 Project. Under the joint venture agreement, Getty Mining Pacific currently holds a 60 percent working interest in the property, with Welcome North as partner with a 40 percent carried interest.

The property was located over what was considered to be a favourable geologic environment for Anvil-Vangorda massive sulphide deposits.

Welcome North, as operator, during the period August 1, 1976 to August 25, 1976 carried out an exploration program consisting of linecutting, geological mapping, soil, silt, and rock geochemical surveys.

Following compilation of the data accumulated, further staking was conducted during December, 1976, in which 161 claims were tied on to the existing 20 claims.

### LOCATION AND ACCESS

The RAZ 1-182 claims are located in the Whitehorse Mining District of the Yukon Territory (N.T.S. 105K-6) at latitude 62°19'N and longitude 133°02'W, 125 miles northeast of Whitehorse, Yukon Territory and 12 miles northeast of the town of Faro (Fig. 2).

Access to the property can be gained by helicopter from Faro or the Anvil mine site situated 12 miles west of the property, in Rose Creek Valley.

The property is centered on a narrow alpine valley northeast of Mount Mye and includes the main peak of Mount Mye. Elevation varies from 5000 feet in the valleys to over 6700 feet at Mount Mye. Outcrop is restricted to sidehills, especially northwest-facing slopes, and ridge tops, with the valley bottoms being covered with glacial till and felsenmeer.

The property is above treeline with only buck brush and minor stunted black spruce in the lower valley bottoms.

MINERAL CLAIMS

The RAZ 1-182 claim group consists of the following 147 contiguous mineral claims located in the Whitehorse Mining District of the Yukon Territory (see Fig. 1).

<u>CLAIMS</u>	<u>GRANT NUMBERS</u>	<u>RECORDING DATE</u>
RAZ 1- 20	YA3424-YA3443	Sept. 2, 1975
RAZ 25- 34	YA8452-YA8461	Dec. 30, 1976
RAZ 39- 48	YA8466-YA8475	Dec. 30, 1976
RAZ 52- 99	YA8479-YA8526	Dec. 30, 1976
RAZ 101	YA8528	Dec. 30, 1976
RAZ 103	YA8530	Dec. 30, 1976
RAZ 105	YA8532	Dec. 30, 1976
RAZ 107	YA8534	Dec. 30, 1976
RAZ 109	YA8536	Dec. 30, 1976
RAZ 113-124	YA8539-YA8550	Dec. 30, 1976
RAZ 126-147	YA8552-YA8573	Dec. 30, 1976
RAZ 149-154	YA8575-YA8580	Dec. 30, 1976
RAZ 157-169	YA8583-YA8595	Dec. 30, 1976
RAZ 182	YA8607	Dec. 30, 1976

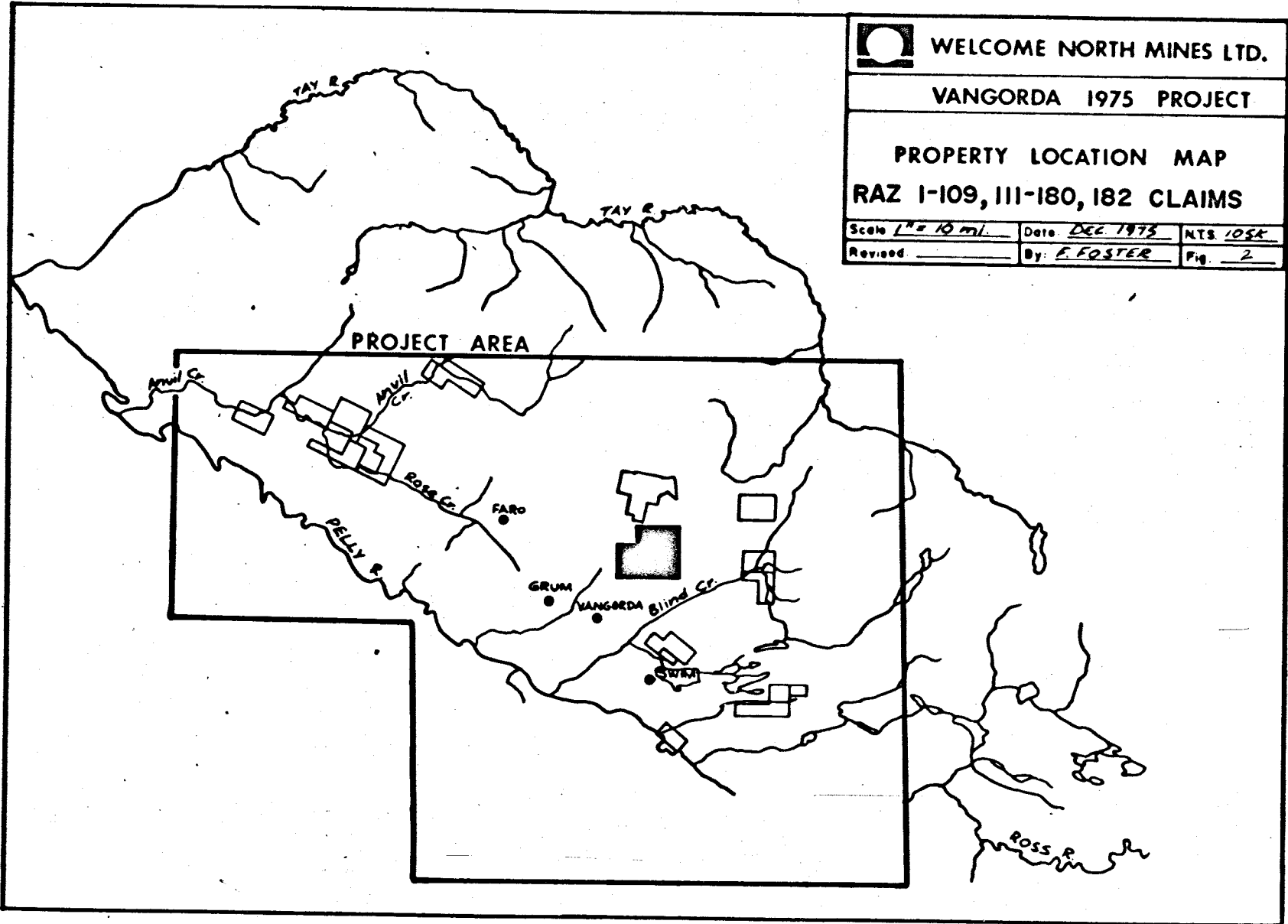


WELCOME NORTH MINES LTD.

VANGORDA 1975 PROJECT

PROPERTY LOCATION MAP  
RAZ 1-109, 111-180, 182 CLAIMS

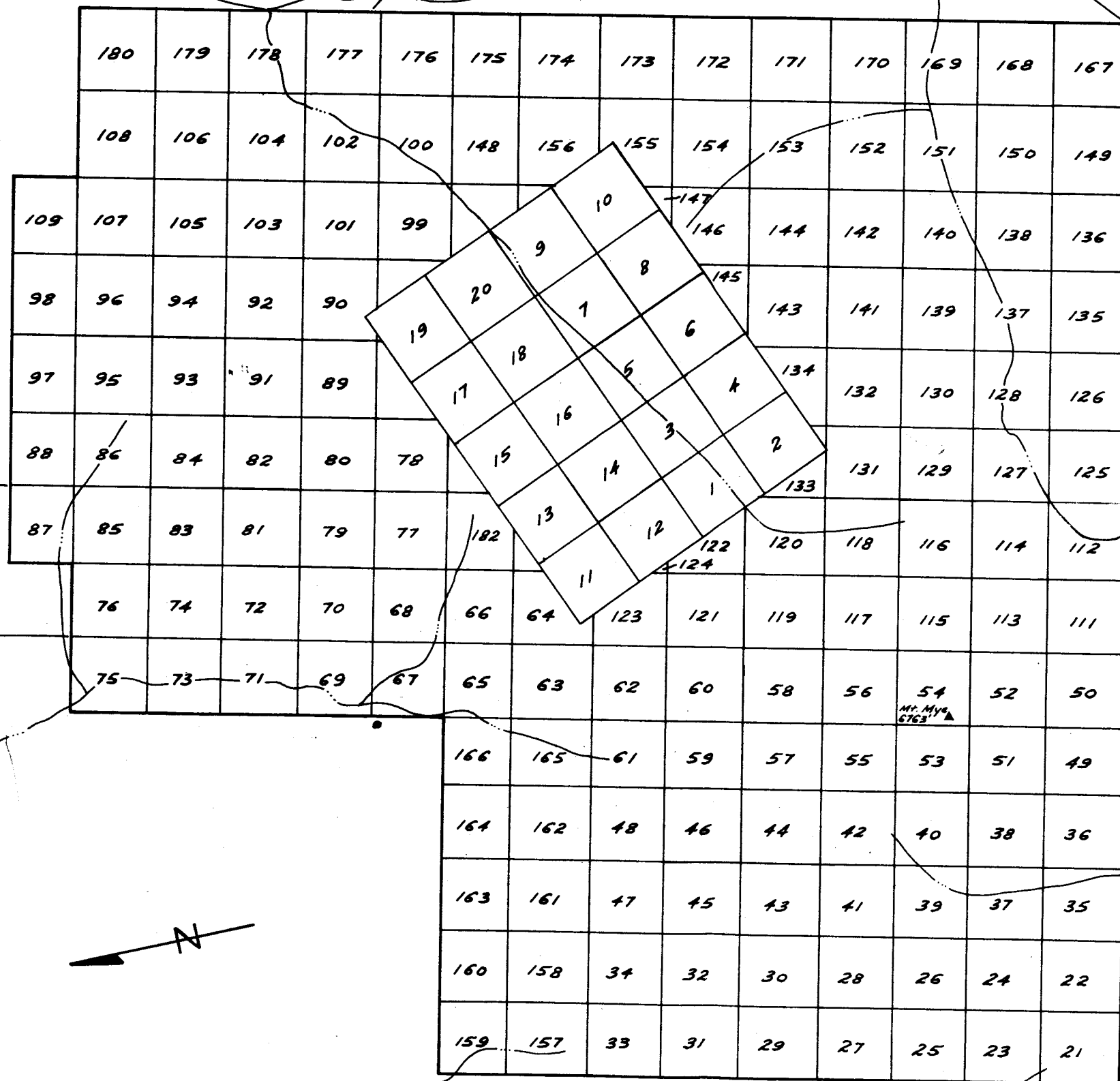
Scale <u>1" = 10 mi.</u>	Date <u>DEC. 1975</u>	NTS <u>105%</u>
Revised _____	By <u>E. FOSTER</u>	Fig. <u>2</u>




**FAT Claims  
Cyprus Anvil**

**ELLE Claims**

**WYNNE Claims  
Vangorda**



		
WELCOME NORTH MINES LTD.		
VANGORDA 1976 PROJECT		
RAZ 1-109, 111-180 & 182 CLAIMS		
CLAIM LOCATION MAP		
Scale 1" = 1/2 mi.	Date Jan. 1977	NTS 105A-6
Revised	By F. Foster	Fig 1

## REPORT ON DIAMOND DRILLING PROGRAM

## RAZ 1-182 MINERAL CLAIMS

A BQ diamond drill hole, number 77V-2, was drilled on the RAZ No. 120 mineral claim during the period August 20 - August 22, 1977. The hole, located at grid coordinates 24+00N, 32+00W, was drilled to investigate a coincident magnetic and electromagnetic anomaly within schistose rocks.

Results of this drilling suggest the anomaly is due to the high carbon content and associated disseminated pyrite (up to 4%) encountered between depths of 87 feet and 276 feet.

Core from the hole has been boxed and is stored at the warehouse of Welcome North Mines Ltd. in Ross River, Yukon Territory.

Enclosed is a geological log of the hole, together with a statement of representation work done.

Respectfully submitted,

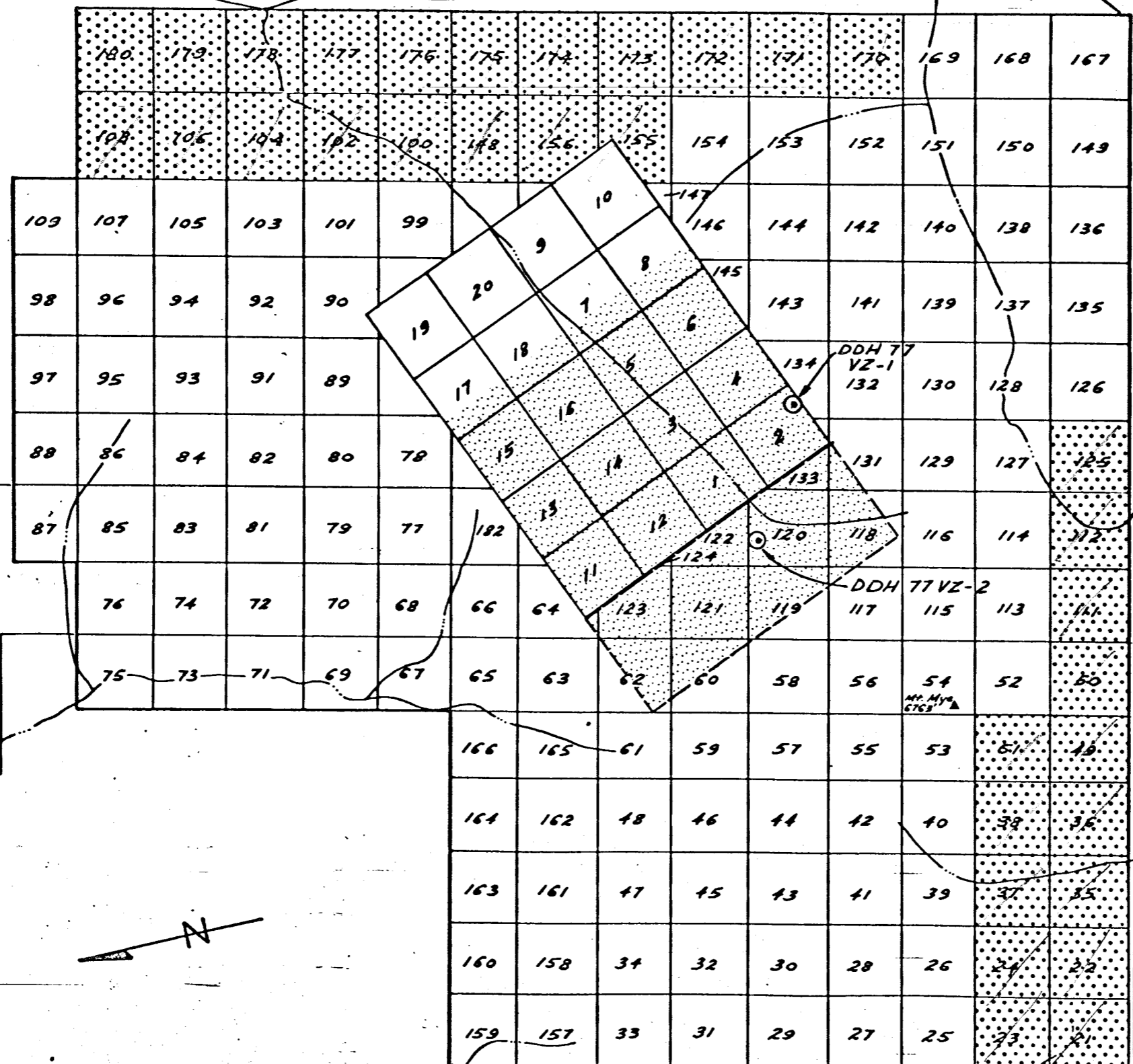


---

Robert Holland

FAT Claims  
Cyprus Anvil

DD-172  
ELLE Claims



WYNNE Claims  
Vangorda

- Area of 1977 Geophysical Work
- Area of 1977 Line-Cutting
- Diamond Drill Hole 1977
- No work done, proposed to let lapse

WELCOME NORTH MINES LTD.
VANGORDA 1977 PROJECT
RAZ CLAIMS ASSESSMENT WORK
Scale: 1" = 1/2 mi. Date: Dec. 1977 NTS. 105K-6





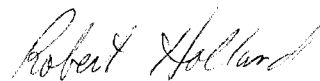




## CERTIFICATE

I, Robert T. Holland of 304 - 8722 Selkirk Avenue, Vancouver  
British Columbia, DO HEREBY CERTIFY THAT:

1. I am a geologist with a business office at 1027 - 470  
Granville Street, Vancouver, B.C.
2. I am a graduate in geology from the University of British  
Columbia (BSc - 1976).
3. I have practiced my profession as a geologist for the past  
two years.
4. To the best of my knowledge and belief the Statement of Costs  
presented in this report "Report on Diamond Drilling Program  
on the RAZ 1-182 Mineral Claims" is both correct and true.
5. I hold no interest in the shares of Welcome North Mines Ltd.  
(N.P.L.), and I am at this time employed by Welcome North  
Mines Ltd. (N.P.L.) as a geologist.



---

Robert T. Holland

## STATEMENT OF COSTS

The following shows a distribution of the total costs incurred by Welcome North Mines Ltd. (N.P.L.) on behalf of the Vangorda Joint Venture in carrying out exploration work on the RAZ claim group during the 1977 field season. These costs can be invoice supported or in the case of internal costs documented.

The costs can be summarized as follows:

1. Costs related to the Geological and Geochemical Investigation of the RAZ Claim Group		
Assays and Geochemical Analysis	\$ 666.60	
Camp Maintenance	5,734.03	
District Expense	1,036.62	
Field Equipment and Supplies	3,996.49	
Fixed Wing	46.93	
Fuel	830.77	
Rotary Wing	17,528.09	
Salaries & Wages	7,671.51	
Transportation & Miscellaneous	2,207.88	
Overhead	<u>5,313.26</u>	\$45,032.18
2. Diamond Drilling of RAZ Claim Group	\$29,330.17	
3. Linecutting of RAZ Claim Group	1,680.00	
4. Geophysical Investigation of RAZ Claim Group	<u>4,800.09</u>	35,810.26
5. Property Costs not allowed as assessment work		<u>2,424.75</u>
TOTAL EXPENDITURE RELATED TO RAZ PROPERTY 1977		<u>\$83,267.19</u>
EXPENDITURES RELATING TO DIAMOND DRILLING ON THE RAZ PROPERTY DURING 1977		\$29,330.17
Expenditures recorded for assessment in Sept., 1977 (includes \$8000.00 of unapplied work)	\$12,000.00	
Expenditures related to this report	<u>17,330.17</u>	
Total	<u>\$29,330.17</u>	

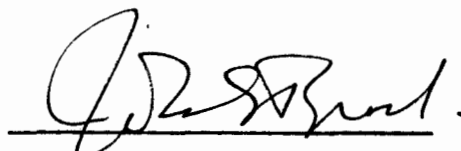

**WELCOME NORTH MINES LTD. (N.P.L.)**

1027-470 Granville St., Vancouver, B.C. V6C 1V5 Telephone (604) 687-1658

AFFIDAVIT SUPPORTING SUMMARY OF COSTS

I, John S. Brock, Exploration Manager, Welcome North Mines Ltd. (N.P.L.) of Vancouver, British Columbia, do hereby state that, to the best of my knowledge and belief, the statement of costs presented in this report "DIAMOND DRILLING ON THE RAZ 1-182 MINERAL CLAIMS"

is both correct and true.



John S. Brock

SWORN BEFORE ME at the City of Vancouver, in the Province of British Columbia, this 22 day of December, 1977.

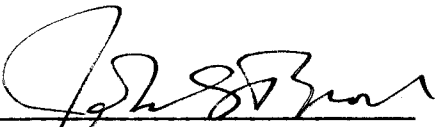


A Notary Public in and for the Province of British Columbia.

## CERTIFICATE

I, John S. Brock, of 3029 Proctor Avenue, West Vancouver,  
British Columbia, DO HEREBY CERTIFY:

- 1) That I am a geophysicist with a business office at 1027-470 Granville Street, Vancouver, B.C.
- 2) That I am a graduate in geology and geophysics of the University of British Columbia (BSc. - 1964).
- 3) That I have practiced my profession as a geologist for the past thirteen years.
- 4) That to the best of my knowledge and belief, the statement of costs presented in this report "DIAMOND DRILLING ON THE RAZ 1-182 CLAIM GROUP" is both correct and true.



John S. Brock

SWORN BEFORE ME at the City of  
Vancouver, in the Province of  
British Columbia, this 22  
day of December, 1977.



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



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REPORT ON LINECUTTING

ON THE

RAZ 1-182 MINERAL CLAIMS

Latitude 62°19'N

Longitude 133°02'W

N.T.S. 105K-6

WHITEHORSE MINING DISTRICT

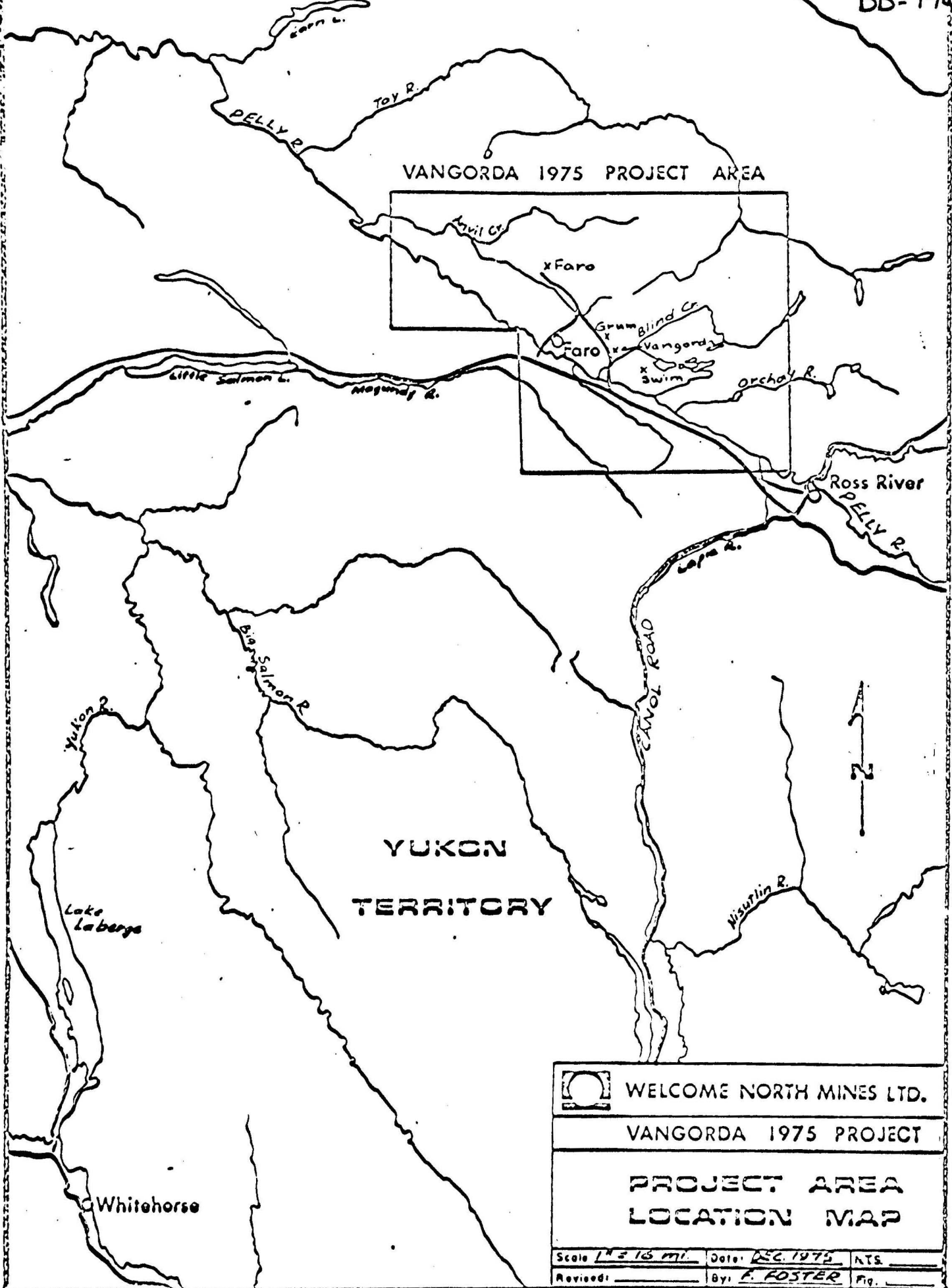
YUKON TERRITORY

Work performed during the period July 15 - August 15, 1977

by


J.D. Guild, P.Eng

December 15, 1977



VANGORDA 1975 PROJECT AREA

YUKON TERRITORY

	WELCOME NORTH MINES LTD.	
VANGORDA 1975 PROJECT		
PROJECT AREA LOCATION MAP		

Scale 1" = 16 mi.	Date: DEC. 1975	NTS
Revised:	By: F. FOSTER	Fig.

LOCATION AND ACCESS

The RAZ 1-182 claims are located in the Whitehorse Mining District of the Yukon Territory (N.T.S. 105K-6) at latitude  $62^{\circ}19'N$  and longitude  $133^{\circ}02'W$ , 125 miles northeast of Whitehorse, Yukon Territory and 12 miles northeast of the town of Faro (Fig. 2).

Access to the property can be gained by helicopter from Faro or the Anvil mine site situated 12 miles west of the property, in Rose Creek Valley.

The property is centered on a narrow alpine valley northeast of Mount Mye and includes the main peak of Mount Mye. Elevation varies from 5000 feet in the valleys to over 6700 feet at Mount Mye. Outcrop is restricted to sidehills, especially northwest-facing slopes, and ridge tops, with the valley bottoms being covered with glacial till and felsenmeer.

The property is above treeline with only buck brush and minor stunted black spruce in the lower valley bottoms.

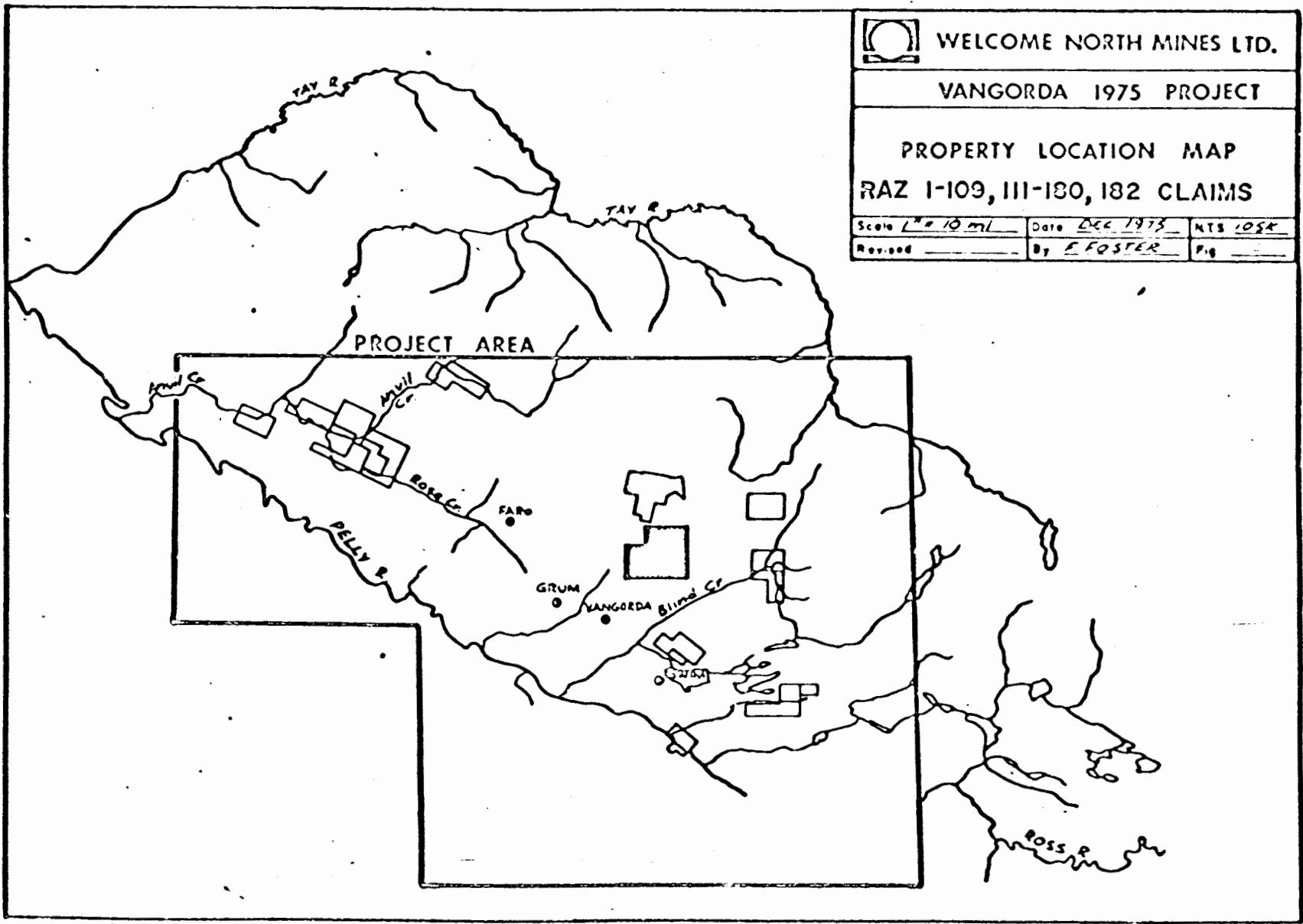


WELCOME NORTH MINES LTD.

VANGORDA 1975 PROJECT

PROPERTY LOCATION MAP  
RAZ I-109, III-130, 182 CLAIMS

Scale $1" = 10 \text{ mi}$	Date <u>DEC 1975</u>	NTS <u>105A</u>
Revised _____	By <u>E FOSTER</u>	Fig _____



DD-174

MINERAL CLAIMS

The RAZ 1-182 claim group consists of the following 147 contiguous mineral claims located in the Whitehorse Mining District of the Yukon Territory (see Fig. 1).

<u>CLAIMS</u>	<u>GRANT NUMBERS</u>	<u>RECORDING DATE</u>
RAZ 1- 20	YA3424-YA3443	Sept. 2, 1975
RAZ 25- 34	YA8452-YA8461	Dec. 30, 1976
RAZ 39- 48	YA8466-YA8475	Dec. 30, 1976
RAZ 52- 99	YA8479-YA8526	Dec. 30, 1976
RAZ 101	YA8528	Dec. 30, 1976
RAZ 103	YA8530	Dec. 30, 1976
RAZ 105	YA8532	Dec. 30, 1976
RAZ 107	YA8534	Dec. 30, 1976
RAZ 109	YA8536	Dec. 30, 1976
RAZ 113-124	YA8539-YA8550	Dec. 30, 1976
RAZ 126-147	YA8552-YA8573	Dec. 30, 1976
RAZ 149-154	YA8575-YA8580	Dec. 30, 1976
RAZ 157-169	YA8583-YA8595	Dec. 30, 1976
RAZ 182	YA8607	Dec. 30, 1976

LINECUTTING PROGRAM  
RAZ 1-182 MINERAL CLAIMS

LINECUTTING

Nine crosslines at 800-foot centres and one tieline, totalling 14 miles, were added to the RAZ grid during the 1977 field season. The lines, some four feet in width, were cut to ankle height and picketed through a low bush and locally precipitous area of the RAZ claim block (Fig. 1).

The lines were used to provide access and afford control to geological, geochemical and geophysical surveys conducted over the area in 1977.

Attached is a statement of representation work together with supporting receipts and vouchers and/or certified statements of the expenditures involved in the work.

## STATEMENT OF COSTS

The following shows a distribution of the total costs incurred by Welcome North Mines Ltd. (N.P.L.) on behalf of the Vangorda Joint Venture in carrying out exploration work on the RAZ claim group during the 1977 field season. These costs can be invoice supported or in the case of internal costs documented.

The costs can be summarized as follows:

1. Costs related to the Geological and Geochemical Investigation of the RAZ Claim Group		
Assays and Geochemical Analysis	\$ 666.60	
Camp Maintenance	5,734.03	
District Expense	1,036.62	
Field Equipment and Supplies	3,996.49	
Fixed Wing	46.93	
Fuel	830.77	
Rotary Wing	17,528.09	
Salaries & Wages	7,671.51	
Transportation & Miscellaneous	2,207.88	
Overhead	<u>5,313.26</u>	\$45,032.18
2. Diamond Drilling of RAZ Claim Group	\$29,330.17	
3. Linecutting of RAZ Claim Group	1,680.00	
4. Geophysical Investigation of RAZ Claim Group	<u>4,800.09</u>	35,810.26
5. Property Costs not allowed as assessment work		<u>2,424.75</u>
TOTAL EXPENDITURE RELATED TO RAZ PROPERTY 1977		<u>\$83,267.19</u>
EXPENDITURES RELATED TO LINECUTTING ON THE RAZ PROPERTY AMOUNTED TO		<u>\$ 1,680.00</u>



**WELCOME NORTH MINES LTD. (N.P.L.)**  
1027 - 470 Granville St., Vancouver, B.C. V6C 1V5 Telephone (604) 687-1658

AFFIDAVIT SUPPORTING SUMMARY OF COSTS

I, John S. Brock, Exploration Manager, Welcome North Mines Ltd. (N.P.L.) of Vancouver, British Columbia, do hereby state that, to the best of my knowledge and belief, the statement of costs presented in this report "LINECUTTING ON THE RAZ 1-182 MINERAL CLAIMS"

is both correct and true.

John S. Brock

SWORN BEFORE ME at the City of Vancouver, in the Province of British Columbia, this 22 day of December, 1977.

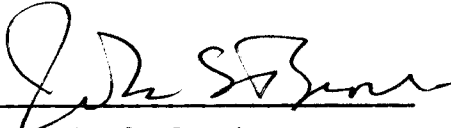


A Notary Public in and for the Province of British Columbia.

## CERTIFICATE

I, John S. Brock, of 3029 Proctor Avenue, West Vancouver,  
British Columbia, DO HEREBY CERTIFY:

- 1) That I am a geophysicist with a business office at 1027-470 Granville Street, Vancouver, B.C.
- 2) That I am a graduate in geology and geophysics of the University of British Columbia (BSc. - 1964).
- 3) That I have practiced my profession as a geologist for the past thirteen years.
- 4) That to the best of my knowledge and belief, the statement of costs presented in this report "REPORT ON LINECUTTING ON THE RAZ 1-182 MINERAL CLAIMS" is both correct and true.

  
John S. Brock

SWORN BEFORE ME at the City of  
Vancouver, in the Province of  
British Columbia, this 22  
day of December, 1977.

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


FAT Claims  
Cyprus Anvil

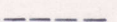
ELLE Claims


WYNNE Claims  
Vangorda




AREA OF LIVECUTTING  
1977

No work done,  
proposed to let lapse 

Grid Line..... 

Diamond Drill Hole..... 

 WELCOME NORTH MINES LTD.		
VANGORDA 1976 PROJECT		
RAZ 1-109, 111-180 & 182 CLAIMS GRID LOCATION MAP		
Scale 1" = 1/2 mi.	Date Jan. 1977	NTS 105A-6
Revised Dec. 1977	By: F. Foster	Fig. 8



**WELCOME NORTH MINES LTD. (N.P.L.)**  
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REPORT ON  
  
DIAMOND DRILLING PROGRAM  
  
ON THE  
  
RAZ 1-20 MINERAL CLAIMS  
  
WHITEHORSE MINING DISTRICT  
  
N.T.S. 105K-6

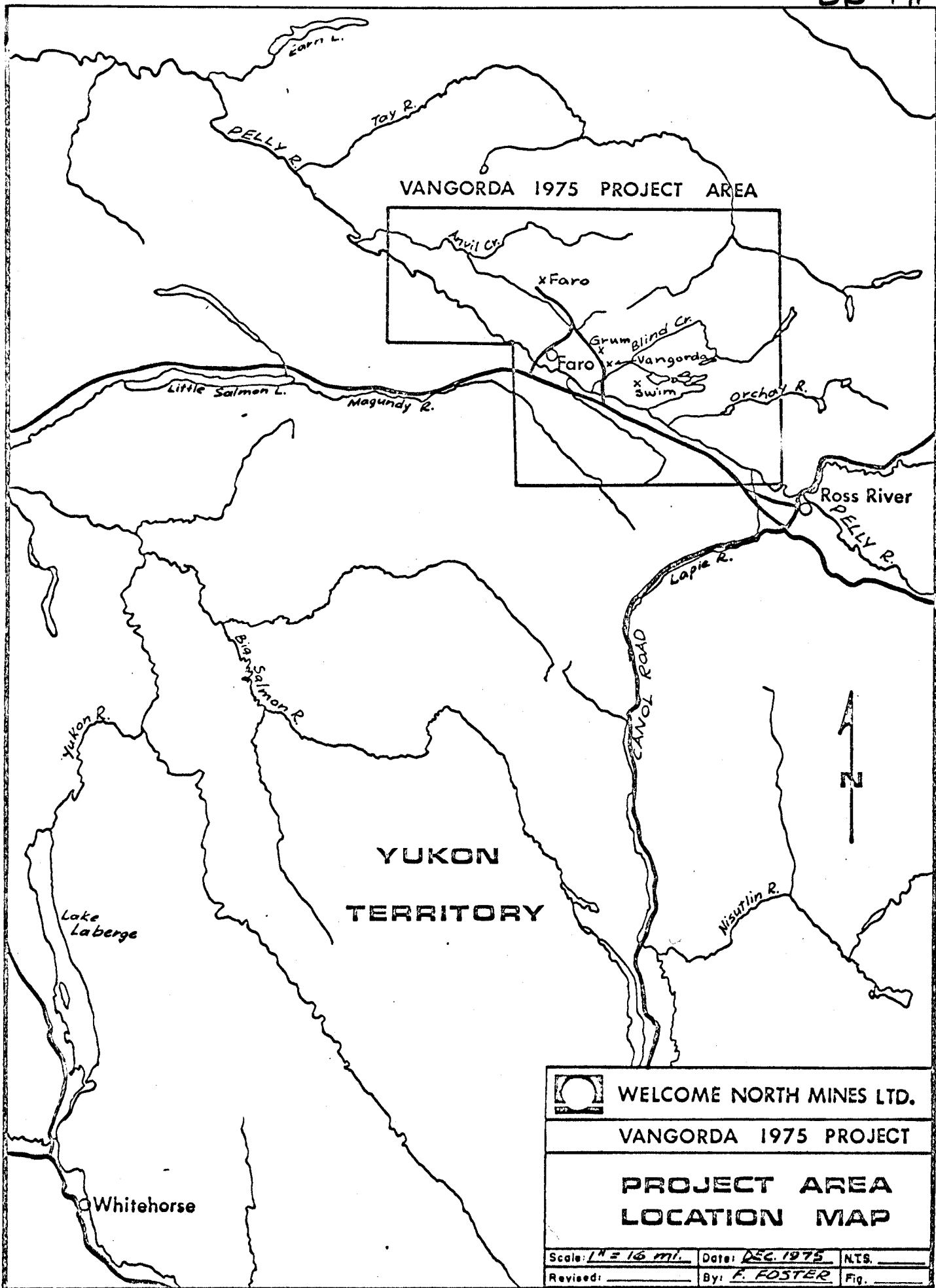
John D. Guild, P.Eng.

August 30, 1977

09/25/1


## STATEMENT OF COSTS

Helicopter move in to drill site	\$ 2,112.50
Machine Rental and Labor Costs during Mov In	3,634.00
Actual cost of Drilling	<u>7,150.00</u>
Total Costs	<u><u>\$12,897.00</u></u>



VANGORDA 1975 PROJECT AREA

YUKON TERRITORY

	WELCOME NORTH MINES LTD.	
VANGORDA 1975 PROJECT		
<b>PROJECT AREA LOCATION MAP</b>		
Scale: 1" = 16 mi.	Date: DEC. 1975	NTS.
Revised:	By: F. FOSTER	Fig.

INTRODUCTION

The BAR 1-20 claims, previously held by the Vangorda '75 Project, were restaked as the RAZ 1-20 claims by Welcome North Mines in August, 1975 as part of the Vangorda '75 Project. Under the joint venture agreement, Getty Mining Pacific currently holds a 60 percent working interest in the property, with Welcome North as partner with a 40 percent carried interest.

The property was located over what was considered to be a favourable geologic environment for Anvil-Vangorda massive sulphide deposits.

Welcome North, as operator, during the period August 1, 1976 to August 25, 1976 carried out an exploration program consisting of linecutting, geological mapping, soil, silt, and rock geochemical surveys.

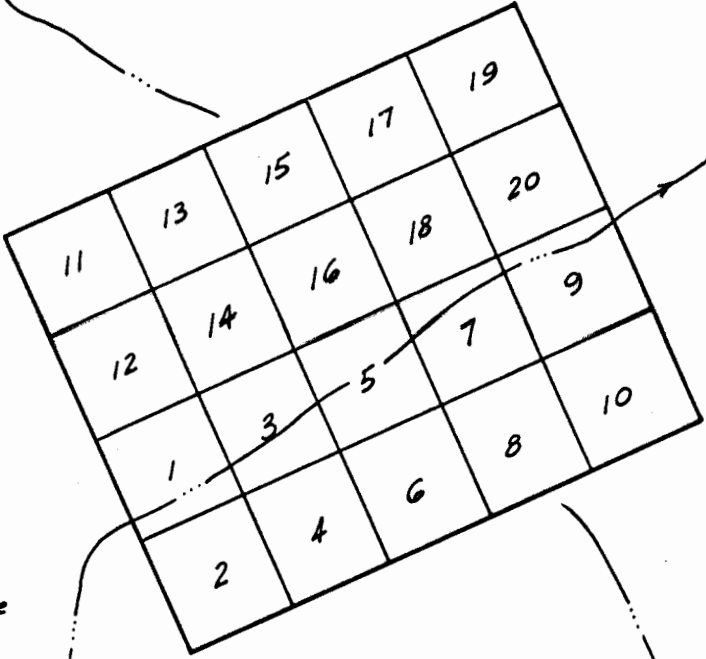
MINERAL CLAIMS

The RAZ 1-20 claim group consists of the following 20 contiguous mineral claims located in the Whitehorse Mining District of the Yukon Territory (see Fig. 1).

<u>CLAIMS</u>	<u>GRANT NUMBERS</u>	<u>RECORDING DATE</u>
RAZ 1-20	YA3424-YA3443	Sept. 2, 1975



WYNNE Claims  
Vangorda



x Mt. Mye

	WELCOME NORTH MINES LTD.		
VANGORDA 1976 PROJECT			
RAZ 1-20 Claims			
Scale: 1" = 1/2 ml	Date: SEPT 1976	NTS. 105K/6	
Revised: _____	By: E. FOSTER	Fig. _____	



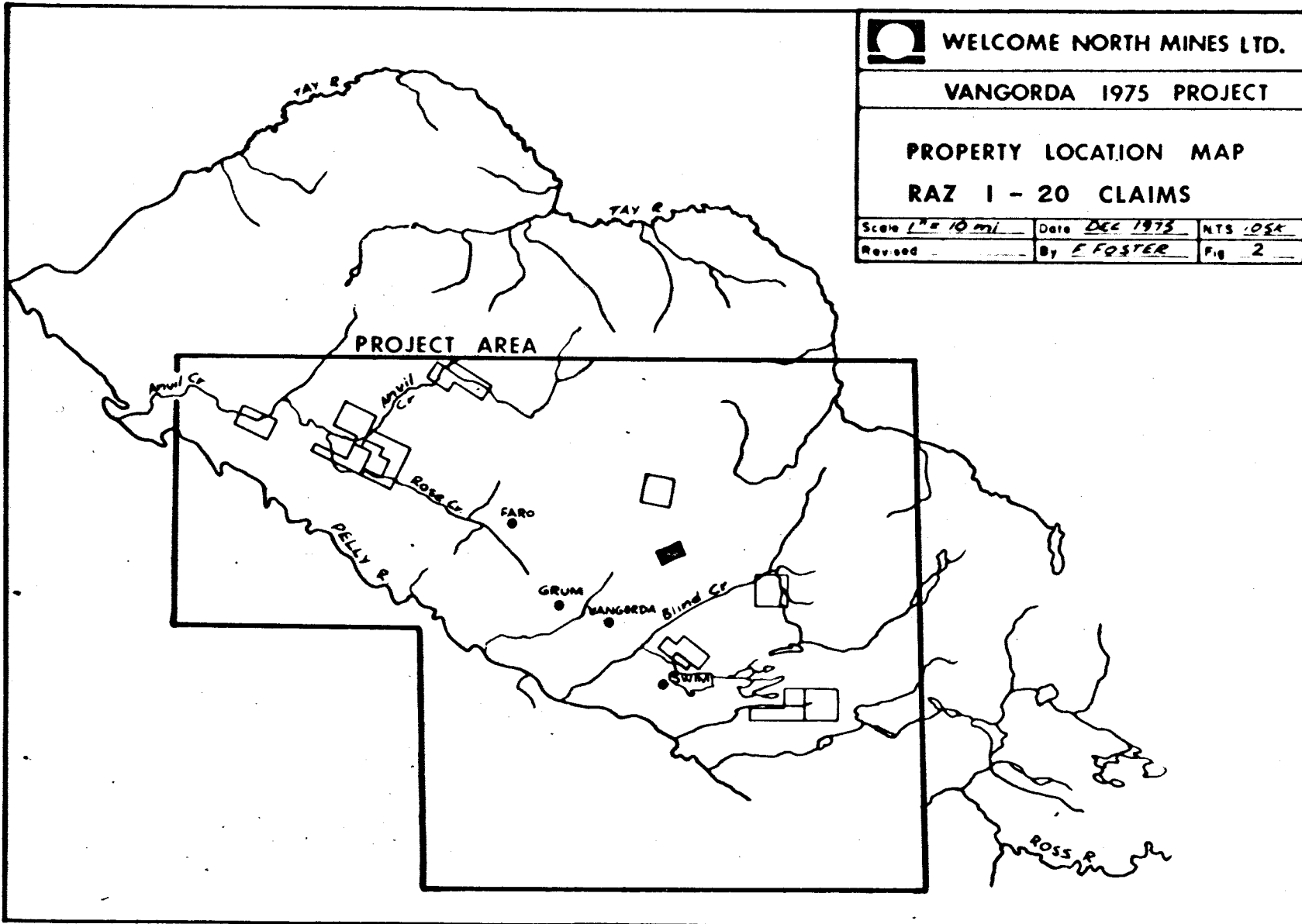
WELCOME NORTH MINES LTD.

VANGORDA 1975 PROJECT

PROPERTY LOCATION MAP

RAZ 1 - 20 CLAIMS

Scale 1" = 10 mi	Date DEC 1975	NTS 054
Revised	By F FOSTER	Fig 2



DD-191

LOCATION AND ACCESS

The RAZ 1-20 claims are located in the Whitehorse Mining District of the Yukon Territory (N.T.S. 105K-6) at latitude  $62^{\circ}19'N$ , and longitude  $133^{\circ}02'W$ , 125 miles northeast of Whitehorse, Yukon Territory and 12 miles northeast of the town of Faro, Yukon Territory (see Fig. 2).

Access to the property can be gained by helicopter from Faro or the Anvil mine site situated 12 miles east of the property in Rose Creek valley.

The property is located at an elevation of 5500 feet in a narrow alpine valley one mile northeast of Mt. Mye. Outcrop is restricted to sidehills and ridgetops, the valley bottom being overburden covered with glacial till and felsemneer.

## REPORT ON DIAMOND DRILLING PROGRAM RAZ 1-20 MINERAL CLAIMS

A BQ diamond drill hole number 77VZ-1 was drilled on the RAZ No. 2 mineral claims, during the period August 16 - August 18, 1977. The hole, located at grid co-ordinate 00+25N and 14+00#, was drilled to check a coincident magnetic and electromagnetic anomaly within schistose rocks. The hole was not successful in explaining the anomaly.

Core from the hole is conventionally marked, boxed and stored at the Welcome North Mines Ltd. warehouse in Ross River, Yukon Territory.

Enclosed is a geological log of the hole together with a statement of representation work done.

Respectfully submitted,



John D. Guild



Collar:		Hole Survey		
NORTH	00+25N	Footage	Azimuth	Dip
EAST	14+00W	0		-90°
ELEVATION		200		-89°
LOGGED BY	J. Guild	465		-86°
DATE LOGGED	August 1977			
MAP REFERENCE	105K-5	Method: Acid		

PROJECT VANGORDA  
 PROPERTY NAME RAZ CLAIM GROUP  
 DRILLING CONTRACTOR CANADIAN LONGYEAR  
 ASSAYER \_\_\_\_\_  
 PURPOSE OF HOLE \_\_\_\_\_

HOLE NO.	<u>77VZ-1</u>
CLAIM NAME	<u>RAZ NO. 2</u>
COMMENCED	<u>August 16, 1977</u>
FINISHED	<u>August 18, 1977</u>

FROM	TO	% RCV	DESCRIPTION	SAMPLE				ASSAYS	
				From	To	Wdth	No.	Zn %	Pb %
0	20		Overburden						
20	63	90	Quartzofeldspathic biotite-muscovite schist - dark grey gneissic, 60% dark brown to black muscovite with the quartzofeldspathic bands preferentially rusty (surface weathering) for the first 100' of hole. Local coarse blotchy garnet development. Schistosity at 75° to core axis. - 1" mud at 27' (27-37-50% core recovery) - traces of sulfides only						
63	75	95	Chloritic Schist - chloritic phase of the above, light green in colour. Not as distinctly banded as the preceding section.						
75	114	95	Quartzofeldspathic biotite-muscovite schist - as 20-63' banding locally contorted. Scattered garnets up to 1/4"						
114	117	90	Chloritic Schist (as 63-75')						
117	147.5	90	Quartzofeldspathic biotite-muscovite schist						
147.5	164	75	Quartzofeldspathic biotite-muscovite schist - zone of fracturing with accompanying quartz veining (15% qtz. muscovite). Core is randomly fractured and crackled with an associated pervasive rusty alteration which largely obliterates the character of the rock. Slightly stronger set of fractures tend to parallel core axis.						
164	166		Quartz Monzonite - white, fine grained aplitic textured sill, sharp contacts.						
166	181	90	Quartzofeldspathic biotite-muscovite schist (as 75-144')						



APPENDIX I

STATEMENT OF COSTS

APPENDIX II

AFFIDAVITS SUPPORTING SUMMARY OF COSTS

**WELCOME NORTH MINES LTD. (N.P.L.)**

1027 - 470 Granville St., Vancouver, B.C. V6C 1V5 Telephone (604) 687-1658

AFFIDAVIT SUPPORTING SUMMARY OF COSTS

I, Irene Wilson, Corporate Secretary, Welcome North Mines Ltd. (N.P.L.) of Vancouver, British Columbia, do hereby state that, to the best of my knowledge and belief, the statement of costs presented in this report (Report on Diamond Drilling Program on the RAZ 1-20 Mineral Claims) is both correct and true.

---

Irene Wilson

SWORN BEFORE ME at Ross River, in  
the Yukon Territory, this 5  
day of September, 1977.

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