

105-D-5, J-12, O-1, P-6, 10, 14, 15, 16
 106-A-1, 2, C-8, 9, ASSESSMENT REPORT
 F-2, 10, 16 N. M. E. A. P.
 115-I-3, 5, 6 CONFIDENTIAL
 116-J-5, 117-A-8, OPEN FILE



TYPE OF
 WORK:

1974 Summary
 Report

REPORT FILED UNDER	Welcome North Mines Ltd.		DOCUMENT NO. 061251
DATE PERFORMED	Summer, 1974	DATE FILED	
LOCATION - LAT. LONG	AREA		
CLAIM NO.	Godlin Project (RAIN, REEF, TAF, DICK, LIN) 105-P-14, 15 106-A-3		
VALUE \$	HORSESHOE 105-P-6 TEE & DEE 105-P-14 Coal Licences # 25 & 30 105-P-10 ICE 105-P-10, 11 TET 106-A-1 ART 105-P-14		
WORK DONE BY	J.S. Brock		
WORK DONE FOR	Welcome North Msl.		
REMARKS	A summary of many of the claim groups staked by Welcome North and then optioned to various companies. Exploration results are given.		

NITE 105-P-16 BEAR 106-A-3 SHEEP 105-D-5
TENAS TAM 105-I-12 DEA
Carmacks Area (CAR & MJK Gps?) 115-I-3,5,6
PLU 106-C-8 DAV & ERIN 116-J-5
WSS 105-O-1 AXE & NEST 106-C-9,10 CAB 106-C-16
KATE (Basin Area) 105-J-2,7
Delta Iron 117-A-8,9



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

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December 31, 1974.

REPORT OF ACTIVITIES TO DECEMBER 31, 1974

During 1974, Welcome North's holdings saw a variety of exploration and development programs, the total cost of which was \$1.1 Million. Encouraging results have been obtained on a majority of properties which we wholly own or in which we have carried and joint venture interests. A number of the prospects previously optioned to other companies have recently reverted to Welcome North, however some of those properties are considered to warrant continued exploration. In this regard, Welcome North has been approached by several mineral resource companies willing to commit to further exploration programs in 1975 and negotiations are currently in progress.

Working Capital as at December 31, 1974, was \$240,000. Option payments due under new agreements presently being negotiated will ensure retention of a healthy working capital position for the 1975 field season.

Following are summaries of our activities to date:

GODLIN PROJECT, N.W.T.

In consideration of the sum of \$52,500 paid to Welcome North by Amax Exploration, Inc., in May, 1974, Amax was granted the right to option five mineral prospects in the Godlin Lakes area of the Northwest Territories. The prospects, the RAIN, REEF, TAP, DICK and LIN, comprise 350 mineral claims located over lead-zinc occurrences found by Welcome North during its 1973 exploration program. Amax conducted a \$ 75,900 program of mapping, sampling, trenching and short-hole "X-ray" drill testing of selected target areas on the properties, the results of which work have not been received by Welcome North.

RAIN 105-P-14, 106-A-3

REEF 105-P-14, 15

TAP 105-P-14

DICK 105-P-14

LIN 105-P-14

Amax has advised Welcome North that it will not proceed with the option to purchase an 80% interest in any of the five prospects. However, Amax is proposing to continue with a drilling program on the Bear Property at Godlin Lake which was formerly under option to Cominco from Welcome North.

GODLIN JOINT VENTURE

105-P-6, 14

Negotiations are currently underway with major companies for financing of additional exploration of several properties held by Welcome in the Godlin area:

Horseshoe Prospect

105-P-6

An extensive zone, over 2,000 feet, of galena float with a well defined geochemical anomaly comprises a target area scheduled for bulldozer trenching. Mineralization is in Sekwi dolomites and is of a similar nature to Welcome North's Tee and Ice properties.

Tee Prospect

105-P-14

Lead-zinc mineralization has been mapped and sampled at intervals over a six-mile strike length of Lower Cambrian dolomite. Within this zone, the main Tee-Arn No. 1 Showing has been mapped over a continuous length of 2,500 feet. Exposures of surface mineralization are from 50 to 75 feet thick, character samples assay between 8% and 11% combined lead-zinc.

In 1974, Bethlehem Copper spent \$50,000 on surface work and drilled one hole to a depth of approximately 200 feet. No visual mineralization was present in the core; the core was not assayed. Bethlehem have terminated their option and the property has been returned to Welcome North.

Further drilling along the strike length of the Tee-Arn No. 1 Showing is required to properly evaluate the property.

Dee Prospect

105-P-14

The Dee zinc-lead occurrences were mapped and surface showings sampled in 1973. Sampling of the D-1 Showing yielded a weighted average of 13.2% lead and 14.4% zinc over 50 feet. In 1974, Bethlehem Copper carried out a \$50,000 program and attempted three drill holes on the main Dee Showing:

- Hole 1 - was drilled to a depth of 165 feet and intersected 57 feet of brecciated dolomite grading 0.13 ozs/ton silver, 1.29% lead and 4.71% zinc.
- Hole 2 - was drilled to a depth of 65 feet and was abandoned due to drilling problems before intersecting the zone.
- Hole 3 - was drilled to a depth of 170 feet and was abandoned due to poor core recovery.

Bethlehem have dropped their option and the Dee prospect has reverted back to Welcome North. The Dee Showing still requires diamond drilling, with larger diameter core to ensure adequate evaluation of the mineralized zone.

Coal Licences

Welcome North owns two coal exploration licences which cover zones of non-marine Cretaceous Bituminous coal in the Godlin Lake area. Preliminary on-surface evaluation of the seams indicates that the thermal grade is of coking quality.

- # 25 105-P-10
- # 30 105-P-10

ICE PROSPECT, GODLIN LAKES, N.W.T.

105-P-10, 11

The Ice-Emily claims, located four miles north of the Canal Road, near Godlin Lakes, were staked in 1973 to cover surface occurrences of galena and smithsonite mineralization found over widths of up to 75 feet in reefal dolomites of the Sekwi Formation. Grab assays of 20% combined lead-zinc have been obtained over widths of 30 feet.

Geomont Exploration (Abitibi) and Ontario Paper, as Operator, completed an \$80,000 program of surface sampling and diamond drilling of two holes during 1974. The surface sampling is reported to have given widths of up to 50 feet of 20% combined lead-zinc. Diamond drilling was designed to intersect the mineralized zone between 600 to 800 feet down-dip from the main showing; visible mineralization was not intersected and the core was not assayed. The option on this property has been terminated and the claims returned to Welcome North.

As the mode of occurrence of lead and zinc discovered in reefal dolomites at Godlin Lakes is not fully understood, it is believed that the 1974 drill program did not adequately explain the possible extent of the Ice showings. Further drill testing is required within closer proximity to known mineralization. Negotiations for a continued program under a new option agreement are currently in progress.

TET PROSPECT, GODLIN LAKES, N.W.T.

106-A-1

To date, exploration on the Tet Copper Prospect has consisted of trenching, diamond drilling, geochemical and geological surveys. Much of the program was concentrated on the A-Showing, which comprises high grade copper-silver mineralization found in float and in place over a strike length in excess of 2,000 feet. Continuous chip samples from Trench A-1 assayed 35 feet of 1.1 ounces/ton silver and 0.92% copper. The Tet B-Showing consists of a strong geochemical anomaly with copper-silver mineralization found both as float and in-place over a strike length of 1,900 feet. Mineralization was exposed in one trench and assayed 0.23 ozs. per ton silver and 0.58% copper over an 80-foot width. A third geochemical anomaly was trenched and exposed mineralization assayed 0.79 ounces/ton silver and 0.44% copper over a 30-foot width. Limited diamond drilling was attempted in 1974, however the program was curtailed due to core recovery problems with EX diameter core.

Bethlehem Copper, who have carried out all exploration for a cost of \$50,000 in 1974, have relinquished their option to Welcome North. Negotiations for further work under an option agreement with Quintana Minerals are in progress, subject to approvals from "land-use" regulatory bodies.

ART PROSPECT, GODLIN LAKES, N.W.T.

105-P-14

During 1974 Malabar Silver Mines conducted a \$60,000 program of detailed geological mapping, soil sampling and diamond drilling of four holes. Encouraging results were obtained and have been reported as follows:

	<u>Zinc %</u>	<u>Lead %</u>
Hole 1 - from 173 feet to 184.5 feet assayed	43%	-
Hole 4 - from 126 feet to 147.5 feet assayed	24%	4.5%
from 187 feet to 203 feet assayed	8.4%	-

NITE PROSPECT, GODLIN LAKES, N.W.T.

105-P-16

The Nite Copper Prospect contains bornite-filled fractures and bands of disseminated bornite, chalcopyrite and chalcocite in Proterozoic siliceous dolomite. Of particular interest is mineralization of grades in excess of 1% copper over widths in excess of 50 feet. Geomont Exploration (Abitibi) and Ontario Paper, as Operator, conducted an exploration program during 1974 which involved an \$80,000 program of trenching, sampling and diamond drilling. Diamond drill results were disappointing due to severe leaching of the host rock.

The Nite prospect has been returned to Welcome North. Further drilling is recommended to test the Nite Prospect in 1975.

BEAR PROSPECT, GODLIN LAKES, N.W.T.

106-A-3

During the 1973 field season, Cominco completed a \$100,000 program of geologic mapping, surface sampling and geochemical surveys on the Bear Property. Over 900 feet of short-hole "X-ray" drilling was also carried out on the Bear No. 1 Showing as part of a detailed sampling program. Surface sampling of thirteen exposures of sphalerite-galena mineralization in carbonate rocks within the Bear No. 1 Showing yielded assay results of 1.16 ozs/ton silver, 2.83% lead and 4.23% zinc, for an overall weighted average of 7.05% lead-zinc. Down-dip extensions of surface mineralization were also sampled by drilling at fourteen locations along a 500-foot cross-section. A weighted average of assays for six of the holes drilled yielded 30 feet of 6.87% combined lead-zinc.

During 1974, Cominco completed four drill holes for a total of 2,000 feet of diamond drilling. All holes intersected lead-zinc mineralization, the best of which assayed:

55 feet of 1.03 ozs/ton silver, 2.8% lead and 4.0% zinc at a depth of 237 feet.

A second zone was intersected at 328 feet which assayed 7 feet of 0.29 ozs/ton silver, 0.01% lead and 48.2% zinc.

At this present stage of exploration, it has been indicated that the property has a potential of 8 to 10 million tons of up to 8% combined lead and zinc. Further exploration directed towards increasing tonnage is feasible along strike and down-dip. Cominco have relinquished their option due to higher priority exploration commitments elsewhere, and Amax have agreed to continue drilling of the property subject to finalization of a new option agreement.

SHEEP PROSPECT, WHITEHORSE, Y.T.

105-D-5

Assays of up to 0.45 ounces per ton gold have been obtained over 30 feet across a well defined quartz vein on the Sheep property. Further mapping, sampling and trenching is planned for 1975.

TENAS PROSPECT, ANVIL AREA, Y.T.

Three mineral claim groups were staked during 1974 in the Tenas area, near Ross River, Yukon Territory. The claims cover known mineralization and geophysical targets within the phyllite sequence that hosts the Anvil-Vangorda massive sulphide deposits. An option agreement has been recently signed with Boliden-Preussag who will further explore the property in 1975.

TAM AND DEA PROSPECTS, SUMMIT LAKE, Y.T.

105-I-12

Dynasty Explorations continued further detailed geochemical surveys and trenching over anomalous zones outlined in 1973 on the Tam and Dea properties. The claims overlie sections of favourable stratigraphy that host lead-zinc sulphides on the adjoining properties of Canex-Placer. Details of results from the 1974 surveys have not yet been received.

CARMACKS AREA, Y.T.

CAR GP 115-I-5,6
MTK GP 115-I-3,6

The Carmacks Syndicate, in which Welcome North has a 2.5% interest, staked five claim groups over areas of lode gold and copper potential. These properties have been farmed out under an option to Cream Silver-Belmoral Mines and Western Mines. Western Mines, as Operator, completed an \$80,000 program of geophysics and geochemistry during the 1974 field season.

Diamond drilling of one of the properties, a copper-moly prospect, is planned for 1975.

PLU PROSPECT, BONNET PLUME, Y.T.

106-C-8

During 1974, GBX Mines conducted a \$20,000 program of geological mapping, detailed prospecting and reconnaissance soil sampling on the Plu claims. GBX has reported that, while preliminary indications of results are encouraging, the next phase of exploration awaits completed reports on the past season's work. Welcome North retains a 20% net proceeds interest in the Plu Claims.

DAV AND ERIN PROSPECTS, PORCUPINE AREA, Y.T.

116-T-5

Welcome North holds a 5% carried interest in the Dav and Erin zinc prospects in the Porcupine River area. The properties have been under option to Brascan Resources who, through a \$20,000 program, followed up on surface occurrences and related geochemical anomalies during 1974.

DELTA IRON, ARCTIC COAST, Y.T.

117-A-8,9

Welcome North and Bethlehem Copper each hold a 50% joint venture interest in the Delta Iron Deposits, 80 miles west of Inuvik, Northwest Territories. Metallurgical investigation of these deposits, under a minimum \$20,000 budget, is progressing towards their consideration as a potential iron source in view of their proximity to natural gas, oil and coal reserves.

INDIAN RIVER, DAWSON, Y.T.

Welcome North holds a 10% carried interest in Andac Resources' "fossil-placer" gold occurrences near the Indian River, Dawson, Yukon. Exploration planned for 1975 by Andac will involve rotary drilling.

MACMILLAN PASS AREA, Y.T.

WSS Gp 105-0-1

Welcome North Mines and Silver Standard Mines are joint owners of a group of 32 claims staked on a copper prospect in the Macmillan Pass area. Silver Standard, as Operator, has been conducting a \$20,000 program of prospecting and geochemical sampling. Results of this work warrant continued surface exploration during 1975.

ARCTIC RED VENTURE, Y.T. AND N.W.T.

During 1974, Welcome North operated a regional prospecting program financed by Utah Mines Ltd., International Mogul Mines Ltd., Bethlehem Copper Corporation and Dupont of Canada Exploration Ltd. The program, conducted within the Mackenzie Mountains, was designed by Welcome North to explore areas of favourable geology related to lead-zinc occurrences in the Godlin Lakes and Bonnet Plume areas. Approximately \$400,000 has been expended to date; twelve zinc prospects have been acquired, of which two saw preliminary drill testing at the end of the 1974 season.

AXE } 106-C-9, 10
NEST }
CAB - 106-C-16, 106-F-2

Planned exploration for 1975 will call for a minimum expenditure of \$308,000, which will be directed towards continued diamond drilling, property evaluation and prospecting. The final report of results of the 1974 program and recommendations for the 1975 program has been submitted for approval to the Arctic Red Venturers.

Welcome North received a \$60,000 cash payment from the contributing venturers in consideration for initiating the project in 1973. Welcome is not required to contribute financially to exploration and development costs, and retains a 10% carried interest in all mineral prospects held by the venture within the agreement area. After completion of 2,500 feet of diamond drilling on any specific mineral prospects worked under the venture, Welcome North has the right to contribute 10% of those expenditures to increase its interest to 20% in specific prospects of its choice.

VANGORDA '75 PROJECT

Welcome North has recently acquired, by staking, several groups of claims within the Anvil-Vangorda area of the Yukon. Plans are now being finalized for exploration of these properties under a joint venture agreement currently under negotiation with a major partner.

BASIN PROJECT

(KATE Gp 105-J-2,7)

Welcome North, in 1975, will be financing 100% of a detailed study and follow-up of specific lead-zinc targets within the Selwyn Basin of Yukon. The total cost of this project will be in the order of \$120,000.

Respectfully submitted,

John S. Brock
Vice-President Exploration.

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

October 31st, 1974

<u>PROPERTY/PROJECT</u>	<u>LOCATION</u>	<u>COMMODITY</u>	<u>OPERATOR</u>	<u>WELCOME NORTH INTEREST</u>	<u>PROGRAM 1974</u>
<u>WHOLLY CONTROLLED</u>					
1) HORSESHOE	GODLIN, N.W.T.	ZN-PB	WELCOME NORTH	100%	SAMPLING, MAPPING
2) TET	GODLIN, N.W.T.	CU	WELCOME NORTH	100%	DIAMOND DRILLING
3) DEE	GODLIN, N.W.T.	ZN-PB	WELCOME NORTH	100%	DIAMOND DRILLING
4) ICE	GODLIN, N.W.T.	PB-ZN	WELCOME NORTH	100%	MAPPING, TRENCHING
5) TEE	GODLIN, N.W.T.	PB-ZN	WELCOME NORTH	100%	DIAMOND DRILLING
6) NITE	GODLIN, N.W.T.	CU	WELCOME NORTH	100%	DIAMOND DRILLING
7) BOOM	REDSTONE, N.W.T.	ZN-PB	WELCOME NORTH	100%	SAMPLING, MAPPING
8) COAL LICENCE	GODLIN, N.W.T.	COAL	WELCOME NORTH	100%	SAMPLING, MAPPING
9) SHEEP	WHITEHORSE, Y.T.	AU	WELCOME NORTH	100%	SAMPLING, MAPPING
10) TENAS	ANVIL AREA, Y.T.	PB-ZN	WELCOME NORTH	100%	SAMPLING, MAPPING
<u>FARMED OUT</u>					
11) DICK	GODLIN, N.W.T.	ZN	AMAX	20%	MAPPING
12) RAIN	GODLIN, N.W.T.	ZN	AMAX	20%	SAMPLING
13) PAK	GODLIN, N.W.T.	ZN-PB	AMAX	20%	AND
14) REEF	GODLIN, N.W.T.	ZN	AMAX	20%	DIAMOND
15) TAP	GODLIN, N.W.T.	ZN	AMAX	20%	DRILLING
16) TAM	SUMMIT LAKE, Y.T.	ZN-PB	DYNASTY	20%	GEOCHEMICAL SURVEYS
17) DEA	SUMMIT LAKE, Y.T.	ZN-PB	DYNASTY	20%	GEOCHEMICAL SURVEYS
18) FLU	SONNET PLUME, Y.T.	ZN	GBK MINES	20%	SAMPLING, MAPPING
19) DAV	PONCUPINE, Y.T.	ZN	BRASCAN	5%	GEOCHEMICAL SURVEYS
20) ERIN	PONCUPINE, Y.T.	ZN	BRASCAN	5%	GEOCHEMICAL SURVEYS
21) BEAR	GODLIN, N.W.T.	PB-ZN	COMINCO	30%	DIAMOND DRILLING
22) CAR #1	CARMACKS, Y.T.	AU	CREAM SILVER/BELMORAL	2.5%	MAPPING
23) CAR #2	CARMACKS, Y.T.	AU	CREAM SILVER/BELMORAL	2.5%	SAMPLING
24) CAR #3	CARMACKS, Y.T.	AU	CREAM SILVER/BELMORAL	2.5%	AND
25) CAR #4	CARMACKS, Y.T.	AU	CREAM SILVER/BELMORAL	2.5%	TRENCHING
26) MJK	CARMACKS, Y.T.	AU	CREAM SILVER/BELMORAL	2.5%	
<u>JOINT VENTURES</u>					
27) DELTA	INUVIK, N.W.T.	FE	BETHLEHEM	50%	SAMPLING, MAPPING
28) WSB	MACMILLAN PASS, Y.T.	CU	SILVER STANDARD	50%	SAMPLING, MAPPING
29) DOR	SONNET PLUME,	ZN	UTAH MINES LTD.,	10%	PROSPECTING,
30) JAN		ZN		10%	
31) RIS	ARCTIC RED AREA,	ZN	INTERNATIONAL MOGUL	10%	MAPPING,
32) AJ	NORTHWEST	ZN	MINES LTD.,	10%	SAMPLING
33) JIM	TERRITORY	ZN	DUPONT OF CANADA	10%	AND
34) AXE		ZN	EXPLORATION LTD.,	10%	DIAMOND DRILLING
35) AB	AND	ZN	BETHLEHEM COPPER	10%	
36) CAB	YUKON	ZN	CORPORATION LTD.	10%	
37) E B		ZN		10%	
38) FAB		ZN		10%	
39) HAB		ZN		10%	
40) RA		ZN		10%	
41) REGIONAL PROGRAM		PB-ZN-CU		10%	REGIONAL PROSPECTING
<u>EQUITY PARTICIPATION</u>					
42) ART	GODLIN, N.W.T.	ZN-PB	MALABAR	400,000 shares	DIAMOND DRILLING
43) TEE-EXT	GODLIN, N.W.T.	ZN	SICINTINE	15,000 shares	MAPPING
44) INDIAN RIVER	DANSON, Y.T.	AU	ANDAC RESOURCES		MAPPING