



Arctic Development  
Library

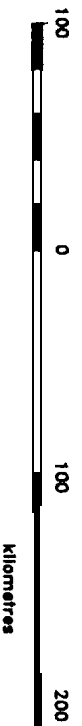
***Selected Mineral Deposits Of The Northwest  
Territories  
Type of Study: Reference Material  
Author: G.n.w.t. - Energy, Mines & Petroleum  
Products  
Catalogue Number: 6-3-98***

Sector: Mining/Oil/Energy

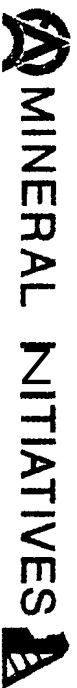
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Reference Material

# SELECTED MINERAL DEPOSITS OF THE NORTHWEST TERRITORIES



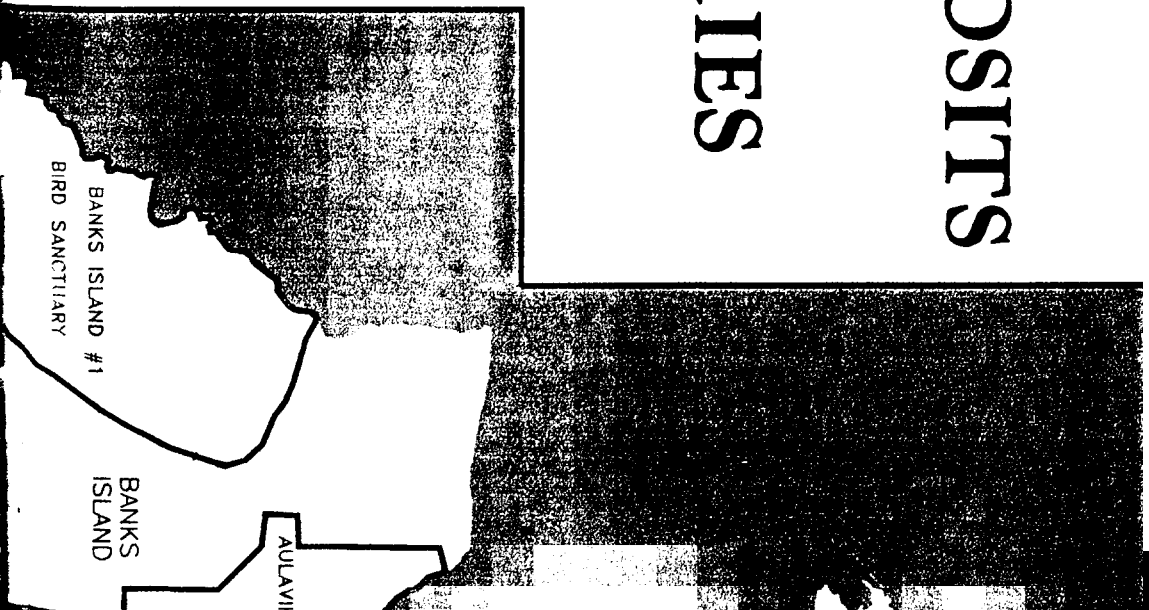
Department of Energy, Mines and Petroleum Resources  
Government of the Northwest Territories  
Box 1320  
Yellowknife, N.W.T. X1A 2L9

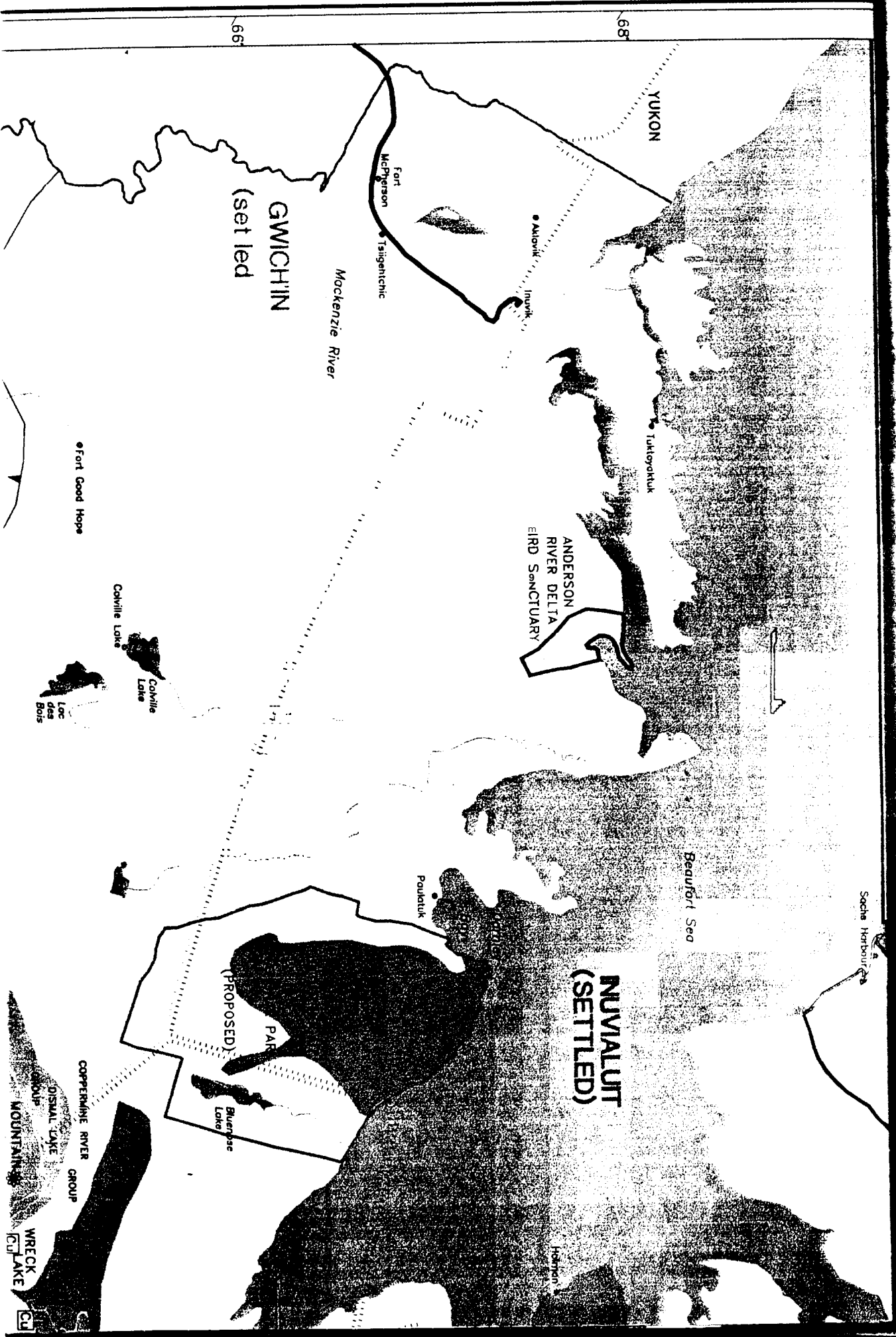


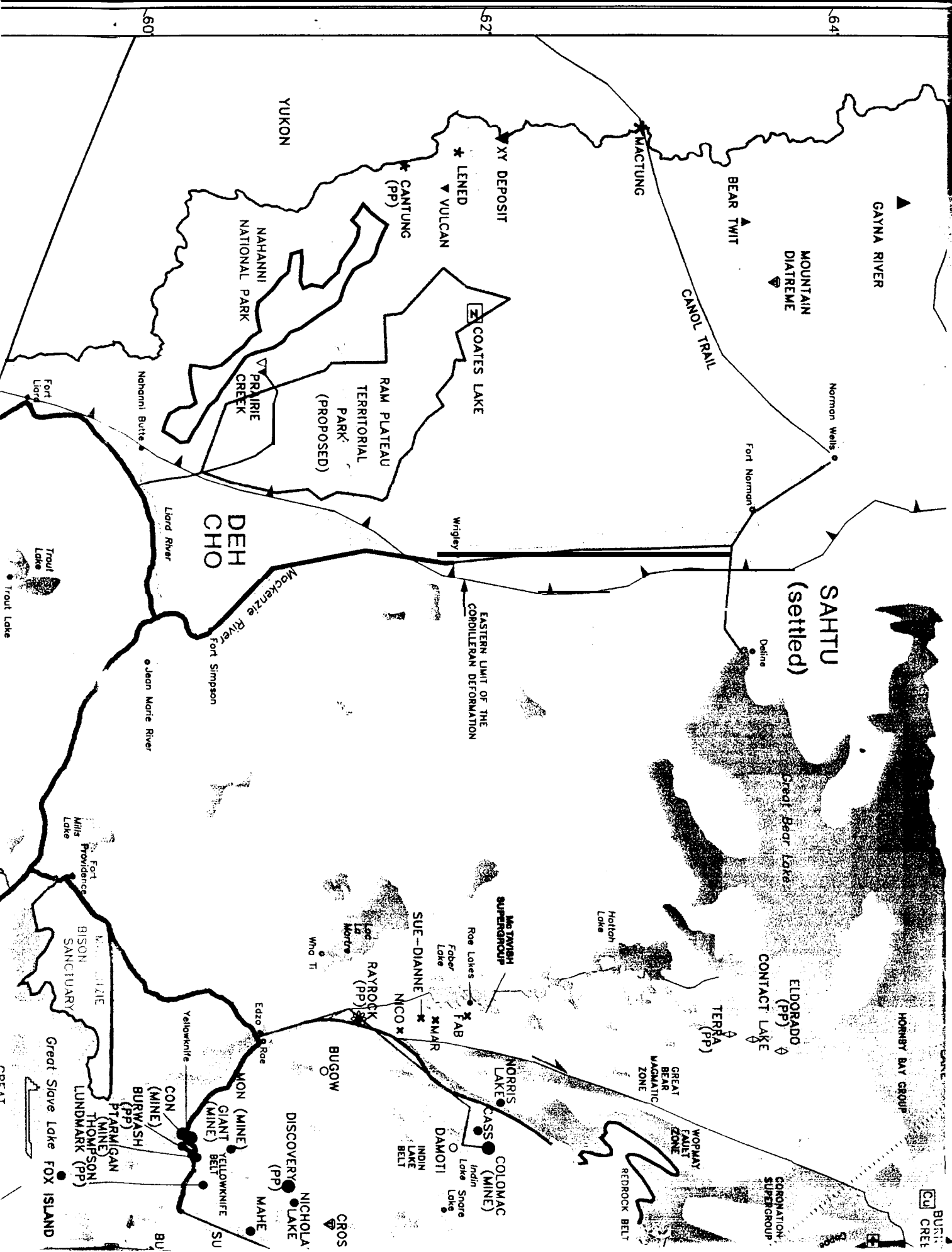
**MINERAL INITIATIVES**  
1991-1998 CANADA-NWT ECONOMIC DEVELOPMENT AGREEMENT

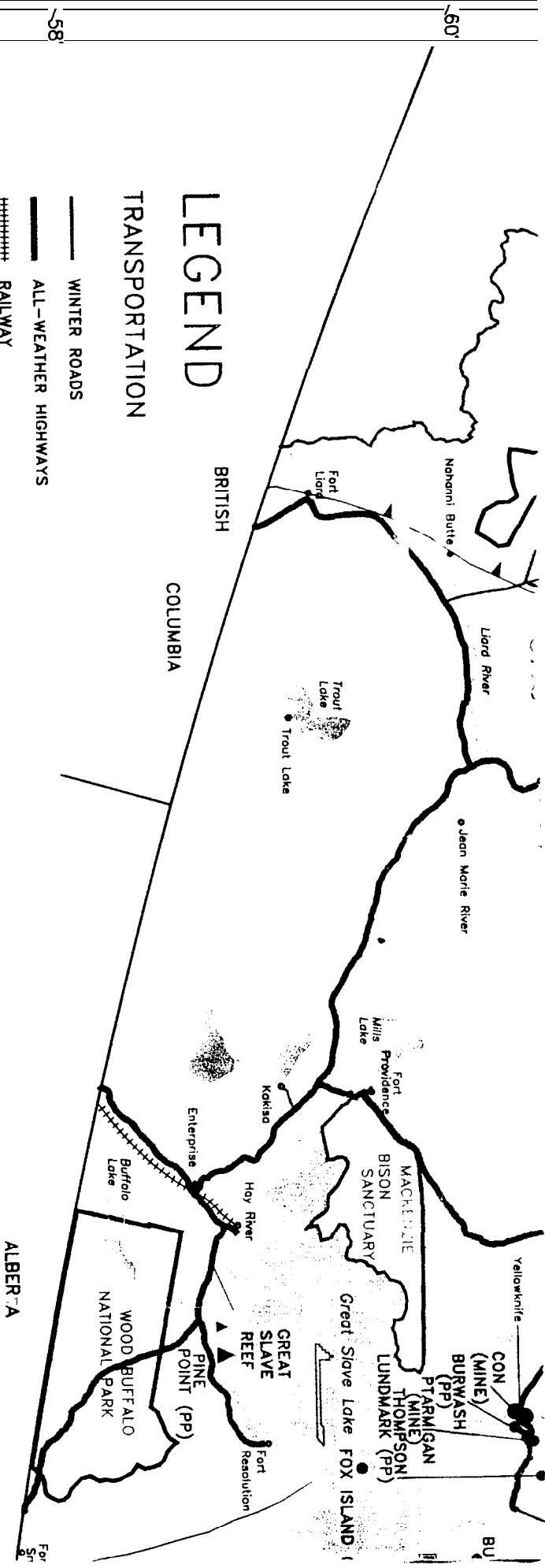
Mineral Initiatives 1991-1996  
Canada - NWT Economic Development Agreement

REVISED OCTOBER, 1995









# LEGEND

## TRANSPORTATION

- WINTER ROADS
- ALL-WEATHER HIGHWAYS
- +++++ RAILWAY
- ↔ SHIPPING ROUTES

## LAND CLAIMS

- NUNAVUT BOUNDARIES
- INUVIALUIT PROPOSED BOUNDARIES
- INUVIALUIT BOUNDARY

## PARKS

- PARKS AND SANCTUARIES
- PROPOSED PARKS AND SANCTUARIES

## MINES

- (MINE) PRODUCING MINES
- (PP) PAST-PRODUCING MINES

## DEPOSITS

- LODE GOLD
- (>1 million troy oz. produced or in reserves)
- LODE GOLD
- GOLD (IRON FORMATION HOSTED)
- (>1 million troy oz. produced or in reserves)
- GOLD (IRON FORMATION HOSTED)
- + MAFIC HOSTED Cu-NI
- ⊠ ULTRAMAFIC HOSTED Cu-NI + PGE
- \* SKARN TUNGSTEN
- (>50 million tonnes reserves)
- \* SKARN TUNGSTEN

124

112

- ✕ OL
- Be
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- ⊠ IRC
- ⊠ IRC
- ⊠ IRC
- UR
- ⬆ DIA
- ⬆ DIA
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124° 120° 116° 112° 108° 104° 100° 96° 92° 88°



PARDY Channel

NUTKUSAK BASALT

GENE  
CU  
WS

VICTORIA ISLAND

WELLINGTON ARCH

M. Clinklock Channel

PRINCE OF WALES ISLAND

SOMERSET ISLAND

SOMERSET CLUSTER

BOOTHIA

PENINSULA

KING WILLIAM ISLAND

Gjoa Haven

Taloyack

NUNAVUT

Kitikmeot Region

(SETTLED)

Queen Maud Gulf

Coronation Gulf

RAT GROUP

Cambridge Bay

ELU INLET BELT

HAVANA

ARSAK  
RUN LAKE

ARSAK RIVER

Umingak

THULE BAY

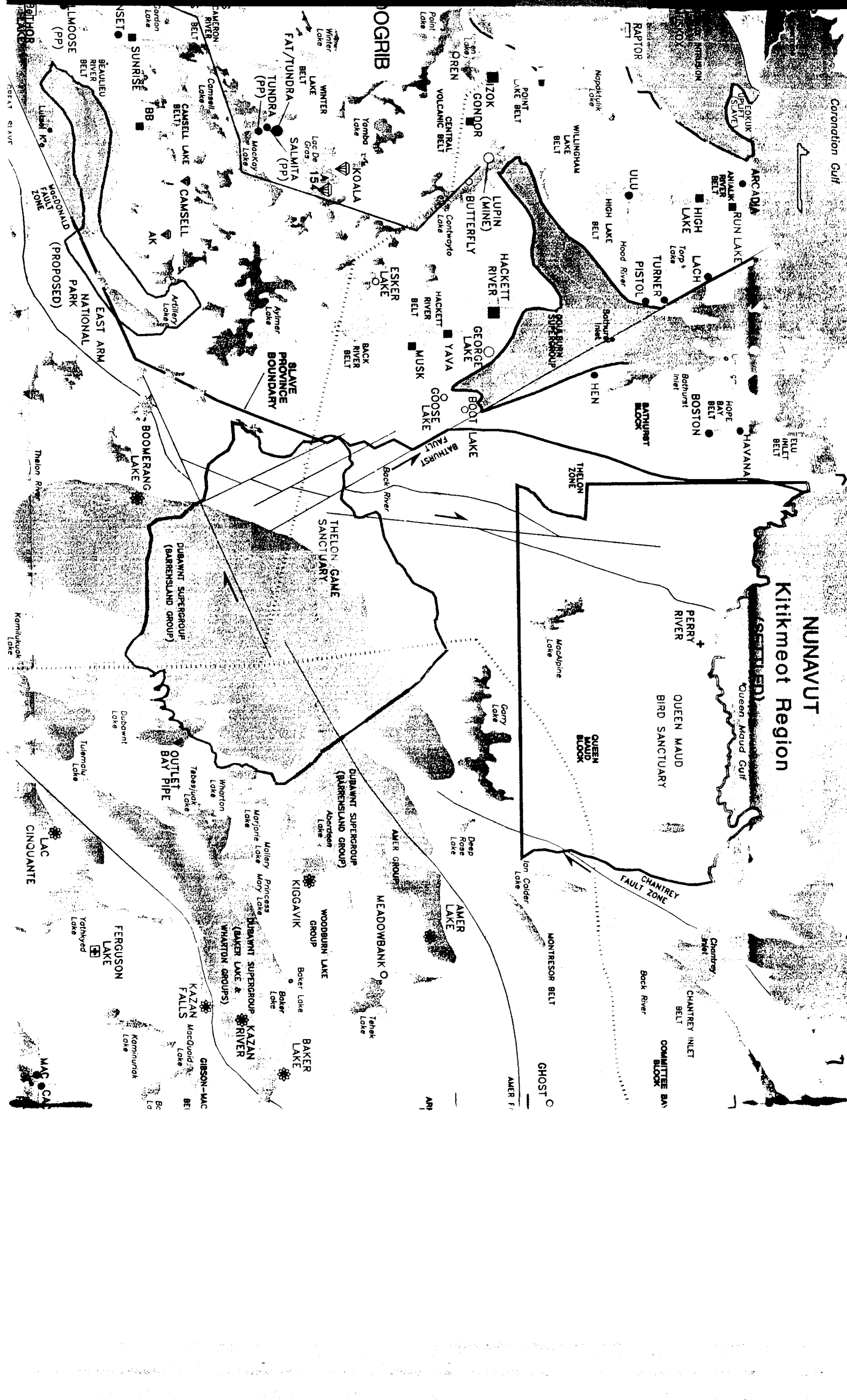
Chantry

6

# NUNAVUT

## Kitikmeot Region

(SETTLED)



Queen Maud Gulf

Queen Maud Block

Queen Maud Bird Sanctuary

Perry River

Chantrey Inlet

Chantrey Inlet Belt

Chantrey Fault Zone

Montresor Belt

Ghost

Amer

Amer Lake

Meadowbank

Woodburn Lake

Kiggavik

Baker Lake

Kazan

Ferguson Lake

Macdonald

Kazan Falls

Wharton

Wharton River

Wharton Lake

Wharton Lake

Wharton Lake

Wharton Lake

Wharton Lake

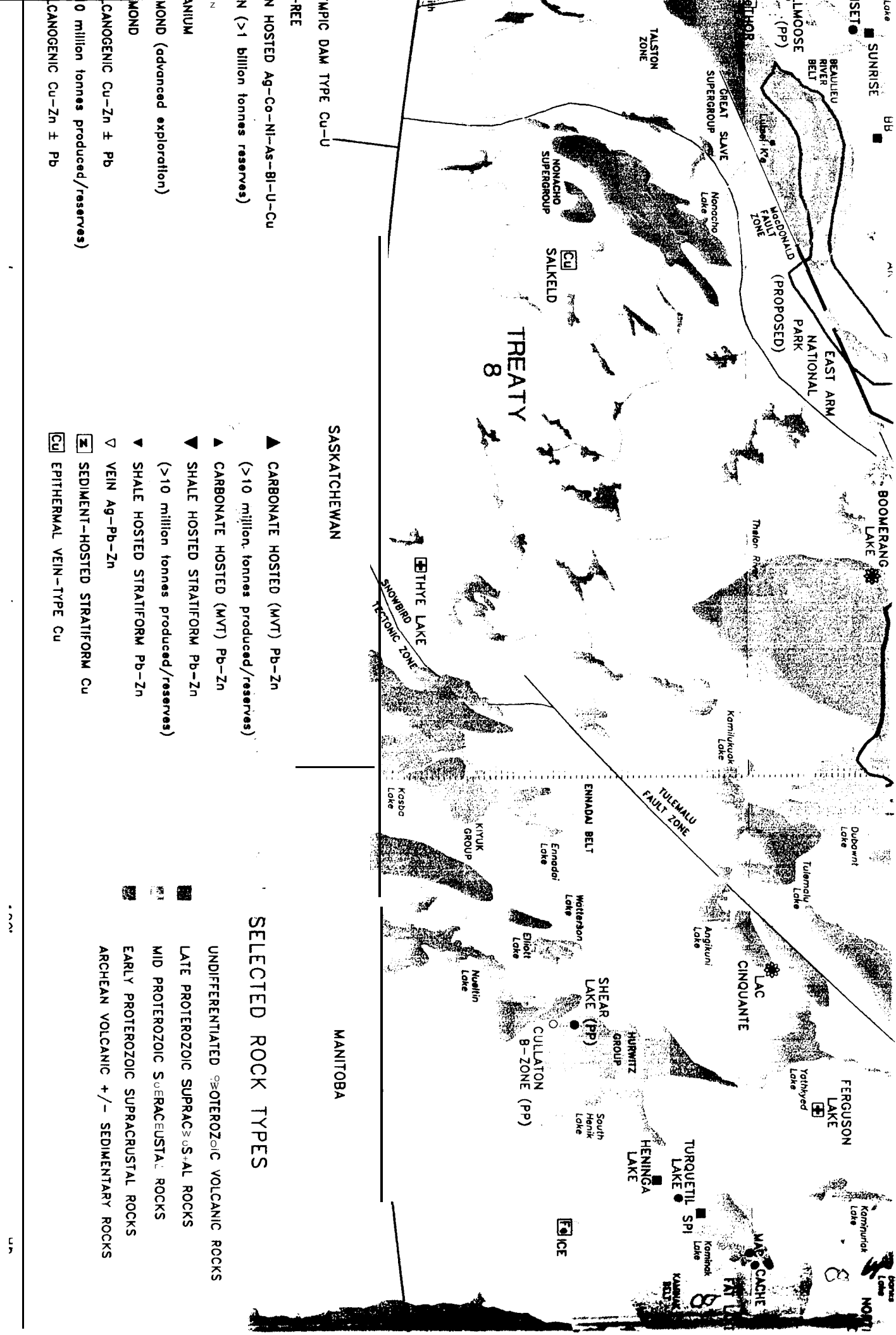
Wharton Lake

Wharton Lake

Wharton Lake

Wharton Lake



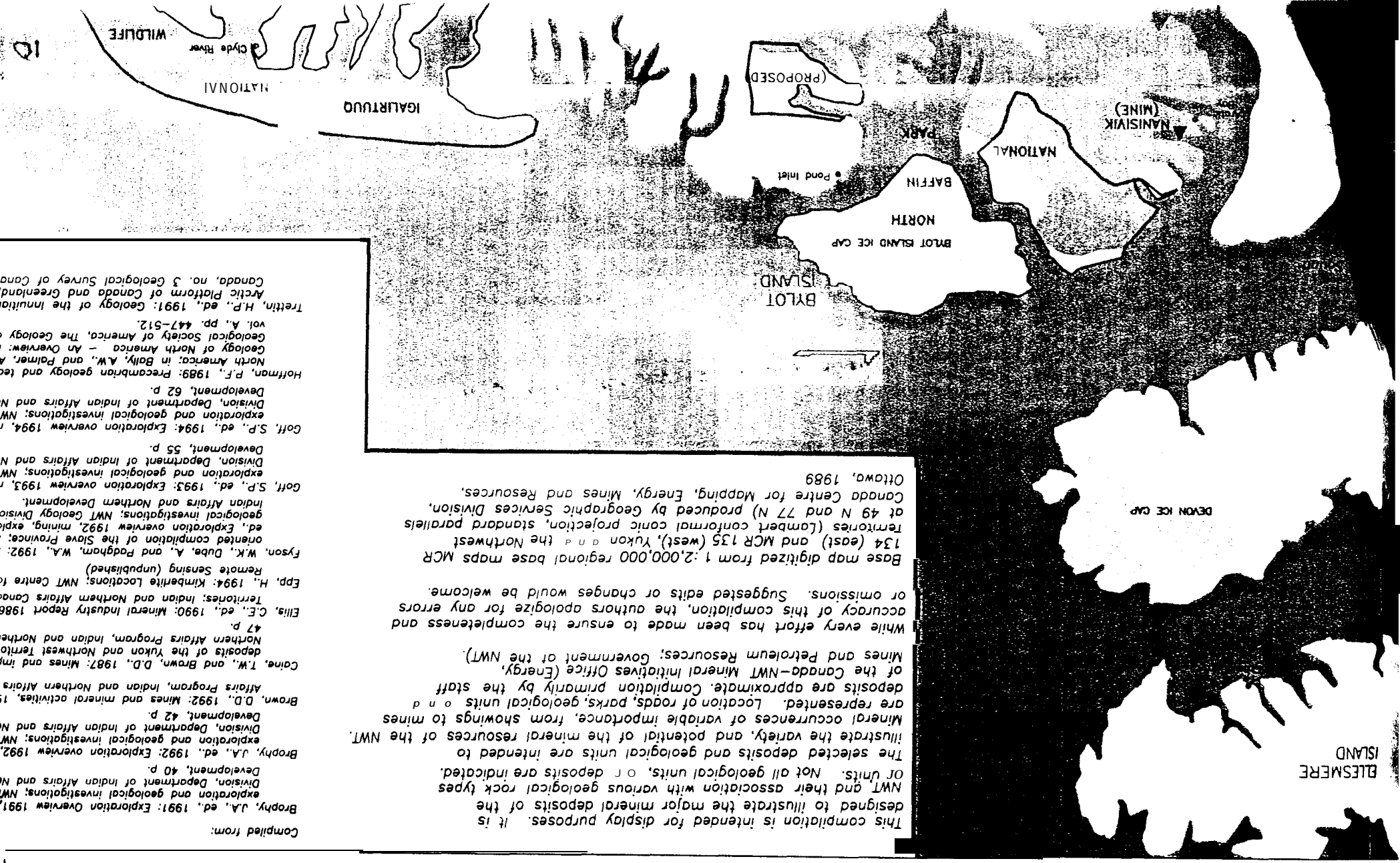


BEAULIEU RIVER BELT  
 MOOSE (PP)  
 EAST ARM NATIONAL PARK (PROPOSED)  
 BOOMERANG LAKE  
 NONACHO SUPERGROUP  
 GREAT SLAVE SUPERGROUP  
 TALSTON ZONE  
 HATHY LAKE  
 SHEAR LAKE (PP)  
 ENNADU BELT  
 KULLATON B-ZONE (PP)  
 HENINGA LAKE  
 TURQUETIL LAKE  
 LAC CINQUANTE  
 FERGUSON LAKE  
 SHEAR LAKE (PP)  
 SOUTH HENIK LAKE  
 HENINGA LAKE  
 TURQUETIL LAKE  
 LAC CINQUANTE  
 FERGUSON LAKE  
 SHEAR LAKE (PP)  
 SOUTH HENIK LAKE  
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 FERGUSON LAKE  
 SHEAR LAKE (PP)  
 SOUTH HENIK LAKE  
 HENINGA LAKE  
 TURQUETIL LAKE  
 LAC CINQUANTE  
 FERGUSON LAKE

SACCHARIN  
 VANILIN  
 MOND (advanced exploration)  
 CANOGENIC Cu-Zn ± Pb  
 0 million tonnes produced/reserves)  
 CANOGENIC Cu-Zn ± Pb

**SASKATCHEWAN**  
 ▲ CARBONATE HOSTED (MVT) Pb-Zn (>10 million tonnes produced/reserves)  
 ▲ CARBONATE HOSTED (MVT) Pb-Zn (>10 million tonnes produced/reserves)  
 ▼ SHALE HOSTED STRATIFORM Pb-Zn (>10 million tonnes produced/reserves)  
 ▼ SHALE HOSTED STRATIFORM Pb-Zn (>10 million tonnes produced/reserves)  
 ▼ VEIN Ag-Pb-Zn  
 ▼ SEDIMENT-HOSTED STRATIFORM Cu  
 ▼ EPTHERMAL VEIN-TYPE Cu

**SELECTED ROCK TYPES**  
 UNDIFFERENTIATED PROTEROZOIC VOLCANIC ROCKS  
 LATE PROTEROZOIC SUPRACRUSTAL ROCKS  
 MID PROTEROZOIC SUPRACRUSTAL ROCKS  
 EARLY PROTEROZOIC SUPRACRUSTAL ROCKS  
 ARCHEAN VOLCANIC +/- SEDIMENTARY ROCKS



Compiled from:

Brophy, J.A., ed., 1991: Exploration Overview 1991, exploration and geological investigations: NWT Division, Department of Indian Affairs and Northern Development, 40 p.

Brophy, J.A., ed., 1992: Exploration overview 1992, exploration and geological investigations: NWT Division, Department of Indian Affairs and Northern Development, 42 p.

Brown, D.D., 1992: Mines and mineral activities, 15 Northern Affairs Program, Indian and Northern Affairs Canada.

Caine, T.W., and Brown, D.D., 1987: Mines and important deposits of the Yukon and Northwest Territories: Northern Affairs Program, Indian and Northern Affairs Canada, 47 p.

Ellis, C.E., ed., 1990: Mineral Industry Report 1986 Territories: Indian and Northern Affairs Canada, 47 p.

Epp, H., 1994: Kimberlite Locations: NWT Centre for Remote Sensing (unpublished)

Fyson, W.K., Dube, A., and Padgham, W.A., 1992: Oriented compilation of the Slave Province: ed., Exploration overview 1992, mining, exploration and geological investigations: NWT Geological Division, Indian Affairs and Northern Development.

Goff, S.P., ed., 1993: Exploration overview 1993, exploration and geological investigations: NWT Division, Department of Indian Affairs and Northern Development, 55 p.

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Hoffman, P.F., 1989: Precambrian geology and tectonic development of the Slave Province, in: Hoffman, P.F., ed., 1989: Precambrian geology and tectonic development of the Slave Province, Geological Society of America, The Geology of North America - An Overview, North America, in Bally, A.W., and Palmer, A., ed., 1989: Precambrian geology and tectonic development of the Slave Province, Geological Society of America, The Geology of North America, vol. A, pp. 447-512.

Trettin, H.P., ed., 1991: Geology of the Inuit Arctic Platform of Canada and Greenland: Canada, no. 3 Geological Survey of Canada.

This compilation is intended for display purposes. It is designed to illustrate the major mineral deposits of the NWT and their association with various geological rock types of units. Not all geological units, or deposits are indicated. The selected deposits and geological units are intended to illustrate the variety, and potential of the mineral resources of the NWT. Mineral occurrences of variable importance, from showings to mines are represented. Location of roads, parks, geological units, and deposits are approximate. Compilation primarily by the staff of the Canada-NWT Mineral Initiatives Office (Energy, Mines and Petroleum Resources: Government of the NWT).

While every effort has been made to ensure the completeness and accuracy of this compilation, the authors apologize for any errors or omissions. Suggested edits or changes would be welcome.

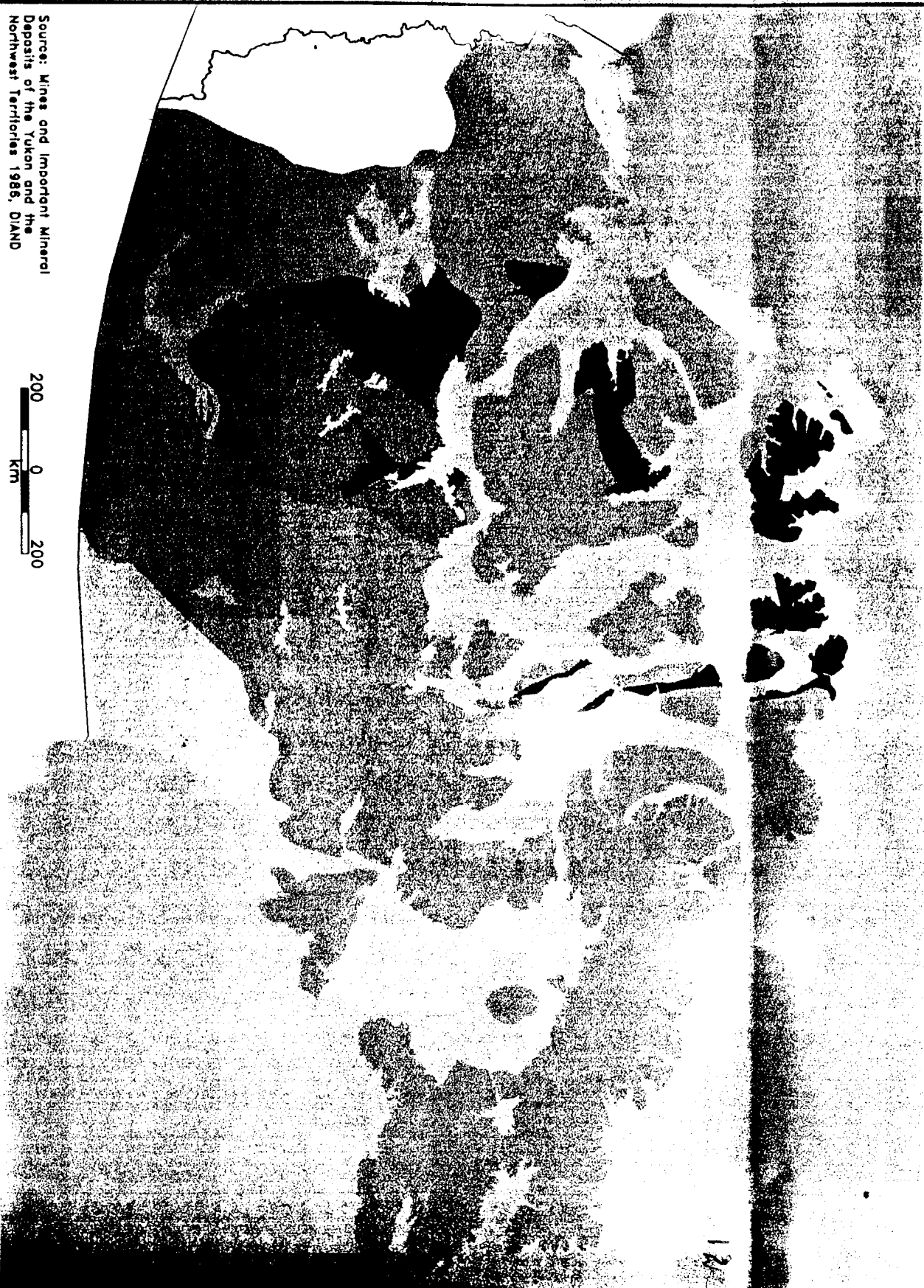
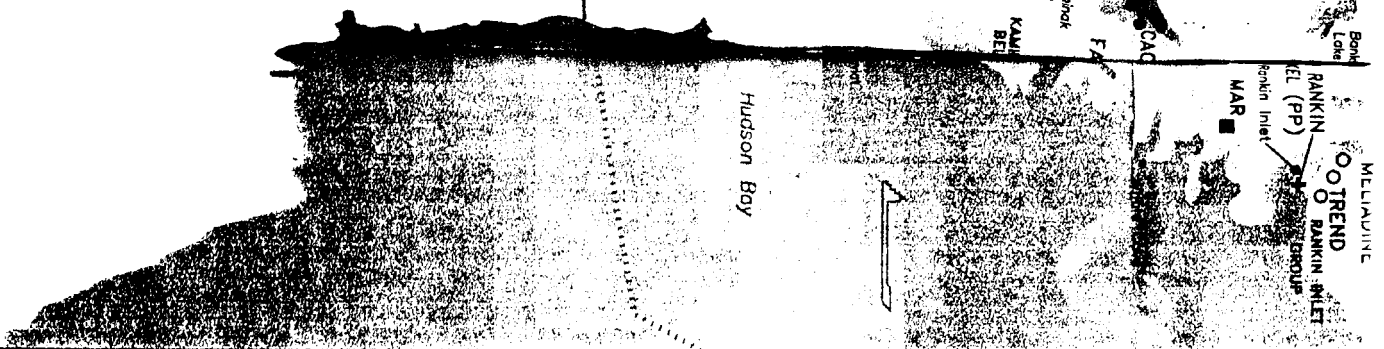
Base map digitized from 1:2,000,000 regional base maps MCR 134 (east) and MCR 135 (west), Yukon and the Northwest Territories (Lambert conformal conic projection, standard parallels 49 N and 77 N) produced by Geographic Services Division, Canada Centre for Mapping, Energy, Mines and Resources, Ottawa, 1989.





NWT STRUCTURAL PROVINCES

NUNAVUT  
Mewatin Region  
(SETTLED)



Sources: Mines and Important Mineral Deposits of the Yukon and the Northwest Territories 1989, DIAND

- ARCTIC COASTAL PLAIN
- BEAR PROVINCE
- ARCTIC, INTERIOR & HUDSON PLATFORMS
- SLAVE PROVINCE
- RAE (CHURCHILL) PROVINCE
- HEARNE (CHURCHILL) PROVINCE
- CORDILLERAN PROVINCE
- INUITIAN PROVINCE



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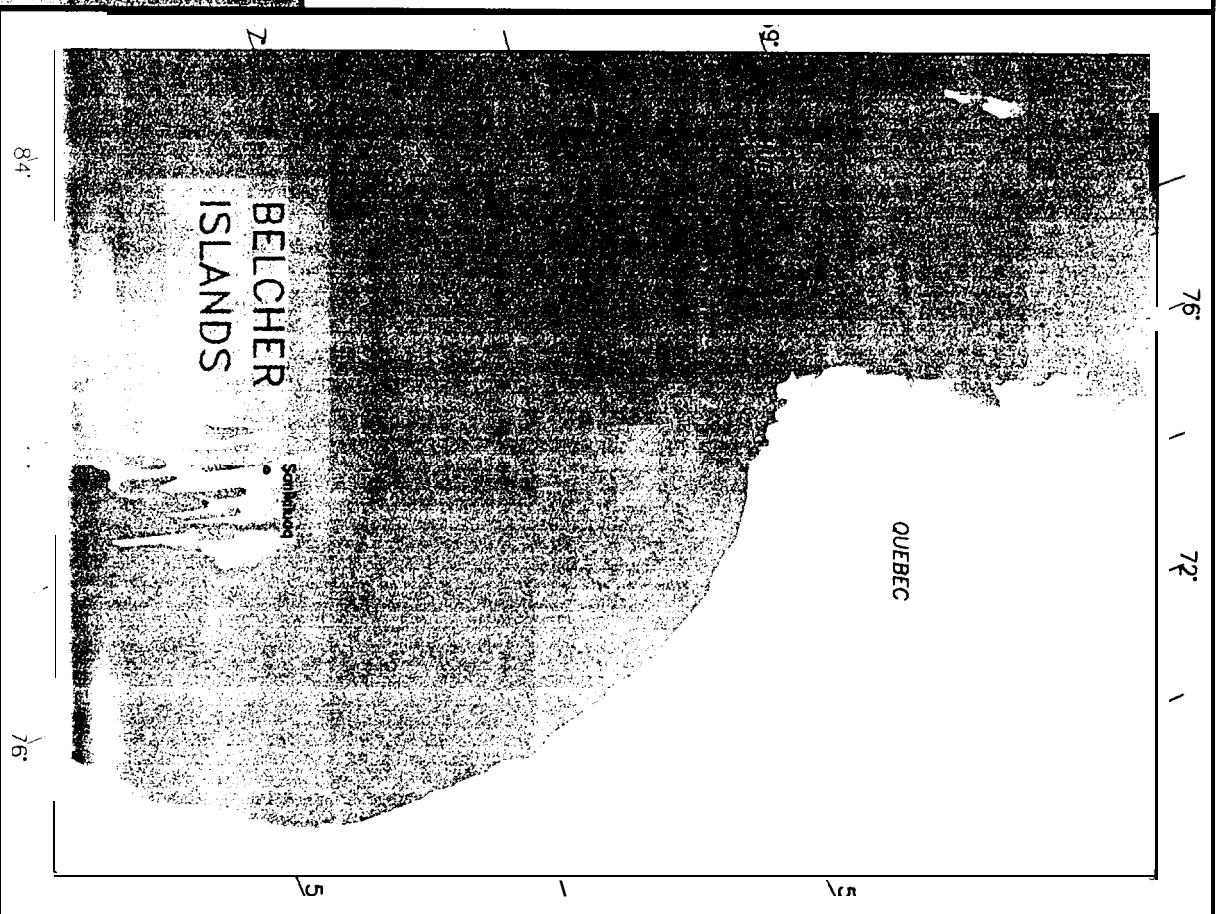
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84

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BELCHER ISLANDS



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TERMINAL PARK

PENNY ICE CAP

Boortkloof

Boortkloof Island

HOARE BAY GROUP

64

66

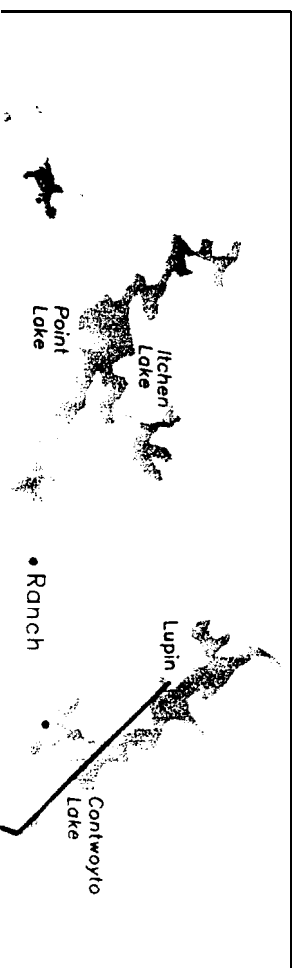




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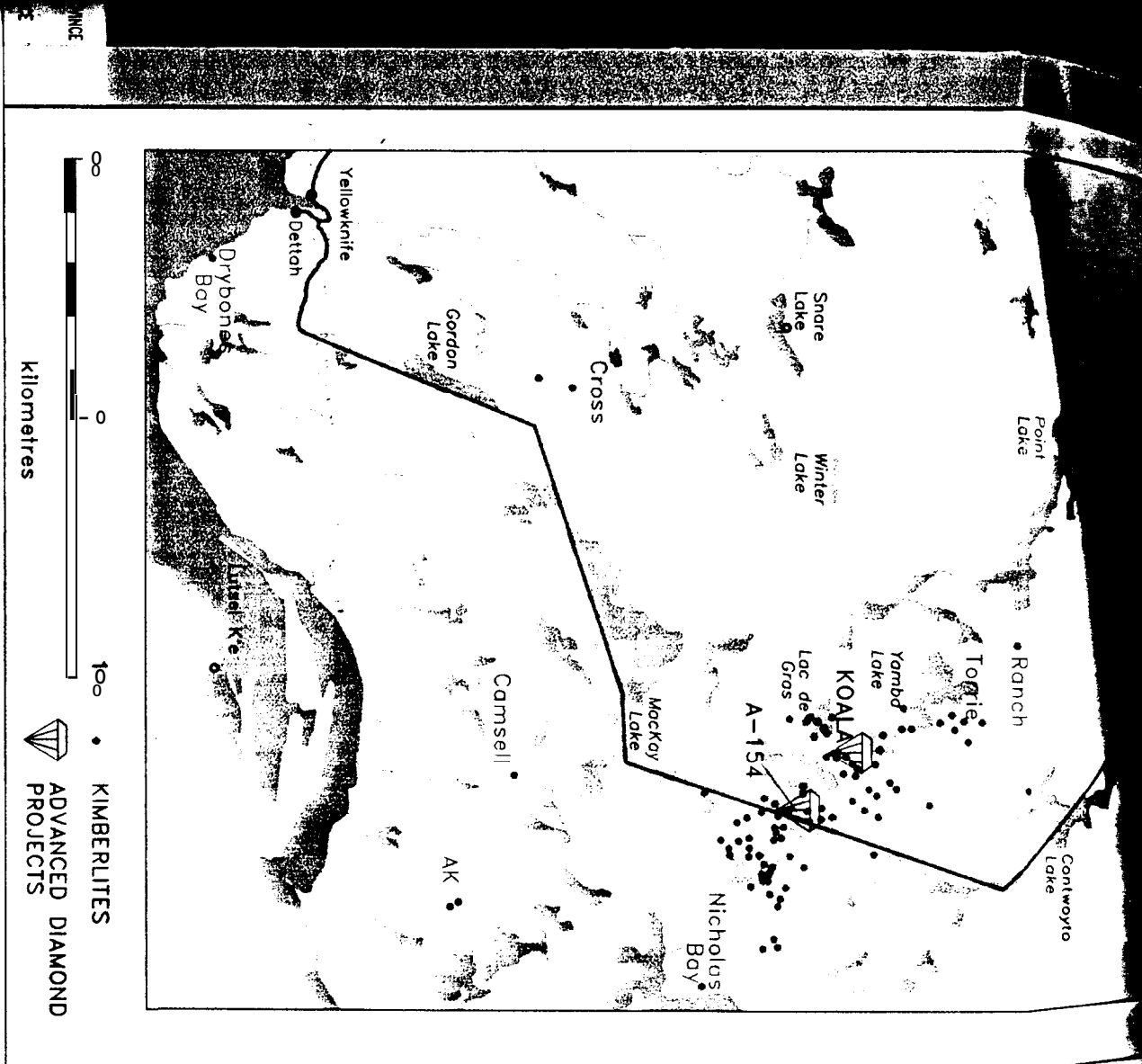
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SELECTED KIMBERLITES IN THE  
SLAVE PROVINCE



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